Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
100001 1982 UC_3	15.6	X	33.67202	288.62533	148.97913	10.73037	0.3697760	0.18267007	3.0762700	21	—	—
100002 1983 QC_1	16.6	X	71.16234	132.81914	241.75701	1.15338	0.1842850	0.26740734	2.3860919	21	—	—
100003 1983 RN_3	15.8	X	151.22006	1.34011	309.27896	3.97580	0.2435857	0.27006071	2.3704371	21	—	—
100004 1983 VA	16.3	X	329.84735	13.71583	76.30917	15.69101	0.7020338	0.23611803	2.5924871	21	—	—
100005 1986 RY	16.3	X	288.46210	351.10404	287.99019	5.76535	0.1415761	0.30174976	2.2014294	21	2 19.9	19.3
100006 1987 DA_7	15.8	X	283.14280	210.86513	309.66574	4.21841	0.3049569	0.33837981	2.0395440	21	—	—
100007 Peters	14.2	X	132.68216	55.49980	310.27663	21.35772	0.0031950	0.17566163	3.1575588	21	1 10.9	18.8
100008 1988 QZ	15.6	X	325.16599	9.57547	335.81532	12.49291	0.3383586	0.26700411	2.3884936	21	6 29.7	17.6
100009 1988 RQ_4	16.5	X	237.75201	161.82174	192.09809	0.79537	0.2254652	0.29074798	2.2566190	21	4 4.2	20.2
100010 1988 RN_{12}	14.6	X	83.42610	309.25881	358.43516	16.91468	0.2659597	0.21535818	2.7565242	21	12 21.8	19.5
100011 1988 VE_3	14.9	X	108.36142	321.73296	42.72103	17.53137	0.3012928	0.21826044	2.7320335	21	1 11.5	18.9
100012 1989 BC_1	14.3	X	200.62487	288.52397	119.10862	27.76945	0.2798307	0.22569792	2.6716794	21	5 23.5	19.6
100013 1989 CD_3	15.2	X	335.13945	217.55703	288.44942	10.98942	0.1507153	0.21124708	2.7921724	21	—	—
100014 1989 SR_4	15.4	X	314.18767	356.07592	43.74425	4.77759	0.1778026	0.24540115	2.5266882	21	9 29.2	17.7
100015 1989 SR_7	15.8	X	272.86705	88.79439	269.29662	4.38907	0.3000213	0.27114386	2.3641201	21	5 4.7	19.6
100016 1989 SD_8	15.6	X	310.92234	66.88261	331.19799	4.58033	0.2568633	0.24481756	2.5307020	21	9 4.5	17.5
100017 1989 TN_2	16.6	X	13.48812	224.72215	174.96312	8.06314	0.2945661	0.28145331	2.3060310	21	—	—
100018 1989 TA_5	16.3	X	227.73032	334.31916	88.75138	3.54970	0.1508155	0.27095289	2.3652308	21	6 30.4	19.7
100019 Gregorianik	15.6	X	317.60538	191.42915	198.11545	2.91814	0.2355723	0.24435629	2.5338858	21	9 9.8	17.7
100020 1990 QH_4	16.0	X	100.16148	358.59379	346.68761	4.48097	0.1893185	0.29683541	2.2256605	21	—	—
100021 1990 QV_7	15.7	X	56.39506	115.13406	235.51336	0.39053	0.2026710	0.26148594	2.4219796	21	—	—
100022 1990 SG_5	16.5	X	253.42193	231.58901	136.87492	2.90259	0.2078867	0.31120231	2.1566227	21	5 8.7	19.5
100023 1990 SH_5	15.8	X	245.54990	352.56553	20.80140	9.51753	0.1664641	0.24689440	2.5164901	21	5 11.2	19.7
100024 1990 SW_6	15.5	X	204.90557	341.67745	29.86431	7.96511	0.2338511	0.24298001	2.5434450	21	4 4.2	19.9
100025 1990 SY_6	15.9	X	36.90134	349.87802	24.52890	6.87082	0.1544606	0.26012629	2.4304119	21	—	—
100026 1990 ST_9	15.7	X	85.43319	268.10988	49.40031	3.07798	0.1851152	0.26123505	2.4235301	21	—	—
100027 Hannaharendt	16.2	X	87.00253	32.80113	320.02147	1.50772	0.2249463	0.26251200	2.4156645	21	—	—
100028 von Canstein	14.7	X	266.04415	97.98996	215.13721	12.40338	0.2055161	0.17998670	3.1067701	21	3 18.7	19.7
100029 Varnhagen	15.0	X	351.49067	84.51210	315.76650	4.11738	0.1013182	0.19295922	2.9659172	21	11 25.4	18.6
100030 1990 WN_1	15.5	X	301.78481	248.75932	186.04761	6.61981	0.3023214	0.18738341	3.0244654	21	9 23.7	18.6
100031 1991 FM_2	15.0	X	251.00700	312.65545	170.95182	22.08638	0.3905689	0.18299545	3.0726224	21	9 10.6	20.2
100032 1991 GU_6	15.0	X	71.17646	214.85939	20.22567	11.06630	0.0367723	0.23712765	2.5851232	21	8 17.7	18.5
100033 Taize	14.5	X	126.60678	137.11309	42.11732	8.45654	0.1473680	0.17223752	3.1992698	21	8 20.8	19.6
100034 1991 PN_1	15.9	X	78.38221	34.42025	314.47611	4.40195	0.2619320	0.27257750	2.3558233	21	—	—
100035 1991 PO_8	15.2	X	158.21883	26.18218	331.38889	7.28881	0.2792996	0.21409096	2.7673909	21	2 15.1	19.8
100036 1991 PM_{14}	16.3	X	97.87786	229.44512	104.00416	3.29201	0.2396159	0.27340310	2.3510783	21	—	—
100037 1991 RM	15.4	X	117.15718	190.18213	157.22813	12.91628	0.2825695	0.27527150	2.3404276	21	—	—
100038 1991 RD_{13}	15.6	X	8.35936	64.00860	299.07049	2.53338	0.2729987	0.23270465	2.6177772	21	12 7.3	18.1
100039 1991 RO_{16}	16.0	X	128.59975	301.76891	64.23063	3.37256	0.2279266	0.27686742	2.3314252	21	1 13.6	18.9
100040 1991 RQ_{17}	13.9	X	54.50591	75.42978	349.50168	22.58291	0.3690288	0.17484405	3.1673944	21	1 29.5	17.1
100041 1991 RJ_{28}	15.5	X	72.42939	321.98237	150.45240	9.16248	0.0518824	0.21607550	2.7504201	21	3 4.1	19.0
100042 1991 SJ_2	15.7	X	344.00528	14.88307	319.41267	8.26330	0.2206809	0.26218125	2.4176956	21	8 20.9	17.2
100043 1991 SE_3	15.0	X	31.10304	276.99644	195.50640	7.24794	0.0761825	0.17581148	3.1557643	21	1 12.3	19.2
100044 1991 TX	15.1	X	354.73685	284.95582	76.60857	24.16973	0.2824573	0.26394551	2.4069101	21	11 22.7	17.0
100045 1991 TK_1	14.3	X	48.72449	115.70631	336.40469	22.03568	0.2941471	0.27395721	2.3479070	21	—	—
100046 Worms	14.7	X	12.68615	297.12470	224.02232	4.15932	0.0919722	0.24625973	2.5208119	21	1 28.8	17.5
100047 Leobaeck	15.9	X	355.30648	40.77079	280.68760	1.75301	0.2048952	0.26140673	2.4224688	21	8 29.4	17.5
100048 1991 TE_{14}	13.7	X	74.77554	352.25971	11.01322	28.08340	0.1575807	0.17180605	3.2046240	21	—	—
100049 Cesarann	16.9	X	78.16171	308.95411	86.19832	3.29169	0.2016095	0.27244863	2.3565661	21	—	—
100050 Carloshernandez	16.4	X	35.18703	306.72436	83.63299	1.67537	0.2119608	0.23504832	2.6003468	21	—	—
100051 Davidhernandez	16.6	X	44.15627	222.92297	198.03342	5.83537	0.0392631	0.30459422	2.1877026	21	—	—
100052 1991 VP_5	14.3	X	112.74988	37.17606	46.45789	36.32618	0.2489681	0.21111945	2.7932977	21	4 25.4	18.7
100053 1992 AR_2	16.2	X	141.54940	296.84595	112.44365	2.10440	0.1833300	0.27616858	2.3353566	21	3 20.6	19.4
100054 1992 BG_4	16.6	X	286.37001	59.04814	101.01012	5.38814	0.0786622	0.29758480	2.2219224	21	—	—
100055 1992 BK_4	15.5	X	150.96482	41.52725	22.89449	2.79301	0.0777421	0.24367669	2.5385948	21	4 11.1	19.0
100056 1992 DZ_3	15.0	X	111.09767	21.70205	337.81794	10.25565	0.2114998	0.23130696	2.6283120	21	—	—
100057 1992 DE_{10}	14.9	X	252.28516	81.13027	179.99099	12.66438	0.1520817	0.23314217	2.6145011	21	1 2.9	19.3
100058 1992 EH	17.0	X	102.81783	327.15518	175.19706	23.94326	0.0781481	0.37585811	1.9016041	21	5 20.9	19.4
100059 1992 EE_4	15.5	X	303.63094	222.00100	0.48221	7.30928	0.1530934	0.23488159	2.6015773	21	1 9.4	19.3
100060 1992 ET_4	15.7	X	248.33477	204.68015	350.42683	13.37562	0.1873337	0.22723038	2.6596538	21	—	—
100061 1992 EL_5	15.2	X	279.64863	16.98887	79.06133	4.94793	0.0974732	0.18932121	3.0037921	21	10 21.0	19.2
100062 1992 EH_9	16.0	X	287.50871	39.12316	113.55729	6.57919	0.1795526	0.22798413	2.6537885	21	—	—
100063 1992 EY_{13}	15.1	X	272.50864	304.26811	331.44405	14.35566	0.0890021	0.23660695	2.5889146	21	2 16.4	18.6
100064 1992 EL_{20}	15.9	X	85.62800	7.19615	106.38819	5.43416	0.0705737	0.23962023	2.5671647	21	3 25.1	19.1
100065 1992 ES_{25}	15.4	X	193.46022	77.71288	156.16305	0.99709	0.1910259	0.19129422	2.9831024	21	12 17.9	20.3
100066 1992 EV_{25}	15.5	X	288.09671	11.05779	162.80889	14.54298	0.1902924	0.22907320	2.6453706	21	—	—
100067 1992 EY_{26}	15.4	X	42.94083	277.92933	153.69416	5.78630	0.2122668	0.23339146	2.6126390	21	—	—
100068 1992 EH_{28}	15.1	X	306.03586	72.83989	160.48481	4.73799	0.1834039	0.23533556	2.5982305	21	1 19.5	18.7
100069 1992 ED_{29}	15.7	X	285.91591	7.64144	220.24335	2.35097	0.1186396	0.23330453	2.6132880	21	—	—
100070 1992 EX_{29}	16.2	X	321.65449	294.11133	152.28067	9.33163	0.2272961	0.26021823	2.4298394	21	12 31.6	18.1
100071 1992 ET_{30}	15.8	X	12.80482	70.38158	185.93914	4.76069	0.1167763	0.24384733	2.5374104	21	6 19.1	18.4
100072 1992 EY_{30}	15.8	X	41.84899	196.20507	292.27965	2.70431	0.0610428	0.23610688	2.5925688	21	2 4.1	19.0
100073 1992 EV_{31}	15.3	X	301.88902	24.44605	163.92552	33.76775	0.1845269	0.23106841	2.6301206	21	—	—
100074 1992 OB_2	15.9	X	281.56473	28.21982	301.33946	3.23039	0.2209303	0.23212043	2.6221678	21	4 18.2	19.7
100075 1992 PS_1	14.5	X	155.38117	88.01276	314.26510	6.45988	0.2944851	0.22444950	2.6815771	21	4 2.8	19.3
100076 1992 PT_1	16.4	X	285.91718	121.16847	146.32009	6.79441	0.2480237	0.29681240	2.2257755	21	1 24.9	20.0
100077 Tertzakian	15.3	X	273.81687	28.73802	343.07002	14.14586	0.2135564	0.23252256	2.6191437	21	6 3.9	19.4
100078 1992 RZ_2	15.0	X	244.61719	40.55167	340.88954	17.43901	0.2135871	0.23102686	2.6304360	21	5 12.9	19.7
100079 1992 RZ_4	15.5	X	251.43089	226.37482	169.22822	13.75679	0.2231352	0.23236015	2.6203639	21	6 13.3	19.9
100080 1992 RY_6	15.0	X	89.70218	140.90474	156.93613	8.13941	0.2153277	0.21065505	2.7974014	21	12 11.7	19.7

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
100081 1992 SU_8	15.6	X	37.44193	210.11630	17.81313	3.08318	0.0481978	0.19795751	2.9157798	21	6 15.9	19.3
100082 1992 SA_{10}	16.0	X	348.87884	332.75787	26.03888	1.27312	0.0205061	0.20386305	2.8591945	21	9 28.9	19.8
100083 1992 SA_{13}	15.2	X	160.50671	347.57359	22.31444	8.82573	0.2894646	0.22061662	2.7125467	21	3 5.8	20.0
100084 1992 SY_{13}	16.0	X	57.50072	326.53614	10.59878	10.20932	0.2592851	0.27822883	2.3238136	21	—	—
100085 1992 UY_4	17.8	X	244.23753	42.16598	305.22175	2.64184	0.6192177	0.22826553	2.6516071	21	3 19.3	23.6
100086 1992 UG_7	16.8	X	105.35672	301.39289	33.59196	1.25961	0.1652771	0.28114293	2.3077279	21	—	—
100087 1993 BW_9	15.1	X	243.30675	193.06274	99.93746	4.68165	0.0524768	0.17749578	3.1357687	21	2 18.4	19.7
100088 1993 DC	16.0	X	254.35800	4.76711	69.86326	10.09533	0.4277749	0.26625019	2.3930004	21	7 15.6	20.1
100089 1993 FW_2	14.9	X	248.10225	255.53588	25.15723	7.62136	0.0780837	0.17124973	3.2115606	21	2 9.6	19.8
100090 1993 FX_5	15.2	X	66.26872	350.30430	80.07110	2.48304	0.1601215	0.17161499	3.2070021	21	1 22.3	19.1
100091 1993 FT_6	16.2	X	332.08838	22.38807	158.66680	7.78989	0.1986114	0.24091978	2.5579246	21	—	—
100092 1993 FK_8	16.3	X	324.06661	108.26012	52.01275	4.21490	0.1520832	0.23867726	2.5739218	21	—	—
100093 1993 FL_{10}	15.5	X	355.03781	46.91015	174.25149	12.93771	0.0879418	0.24647863	2.5193193	21	3 27.9	18.2
100094 1993 FJ_{13}	14.3	X	348.60907	345.84828	33.00175	10.73004	0.1117062	0.19229420	2.9727514	21	10 25.3	17.7
100095 1993 FN_{13}	15.9	X	132.70644	120.71847	153.61187	6.73070	0.1209617	0.26409569	2.4059975	21	12 24.9	19.6
100096 1993 FG_{18}	16.0	X	129.77159	116.38229	133.20295	6.85880	0.0890309	0.26173903	2.4204181	21	11 22.2	19.6
100097 1993 FK_{19}	15.2	X	270.92365	303.56320	53.53619	6.90350	0.0431451	0.21661361	2.7458631	21	6 7.6	18.9
100098 1993 FZ_{19}	14.8	X	187.54850	106.45183	46.41867	10.89196	0.0426155	0.18882437	3.0090589	21	9 20.7	19.3
100099 1993 FG_{21}	15.3	X	193.07372	211.49819	304.72149	0.91010	0.0249295	0.18958905	3.0009624	21	9 26.6	19.5
100100 1993 FB_{25}	15.0	X	289.89358	204.35776	301.23605	0.94162	0.2369521	0.16521220	3.2893340	21	12 10.6	19.0
100101 1993 FZ_{28}	16.2	X	273.14331	318.31075	311.50636	3.85080	0.1963699	0.24152425	2.5536550	21	1 29.1	20.1
100102 1993 FU_{30}	16.1	X	209.33926	163.35692	51.40679	3.59495	0.1127008	0.26640791	2.3920558	21	12 31.8	19.4
100103 1993 FC_{33}	16.7	X	234.44420	93.45814	130.95300	3.17516	0.1211895	0.26932608	2.3747457	21	—	—
100104 1993 FQ_{33}	16.4	X	54.05127	70.84976	54.15247	3.18939	0.1608306	0.27939771	2.3173279	21	2 16.2	18.1
100105 1993 FK_{35}	15.1	X	66.21975	284.76580	36.10978	4.78928	0.1085918	0.19254146	2.9702058	21	11 29.5	19.4
100106 1993 FW_{35}	15.0	X	135.40311	78.01897	179.76270	10.97553	0.0583041	0.19351462	2.9602396	21	11 26.8	19.5
100107 1993 FH_{39}	15.3	X	211.32059	133.27430	120.61281	3.18210	0.0220499	0.20082704	2.8879384	21	—	—
100108 1993 FF_{45}	16.6	X	240.63247	160.03151	25.21216	2.74206	0.1612351	0.26760564	2.3849130	21	12 25.9	19.4
100109 1993 FN_{46}	15.3	X	327.42251	40.88880	181.20022	5.42142	0.0769759	0.17397027	3.1779912	21	2 27.7	19.5
100110 1993 FV_{47}	16.7	X	198.29694	215.19288	44.02703	1.11405	0.1803400	0.26834812	2.3805118	21	—	—
100111 1993 FA_{51}	14.9	X	26.62442	324.73623	188.06336	13.46052	0.1356818	0.17425487	3.1745300	21	2 24.7	18.9
100112 1993 FM_{57}	16.1	X	329.62999	104.83784	109.36212	5.34362	0.2201319	0.24277025	2.5449099	21	1 18.0	19.1
100113 1993 FW_{73}	16.0	X	101.69060	55.69988	215.72391	3.76037	0.1902450	0.25967298	2.4332396	21	11 24.9	19.7
100114 1993 FQ_{82}	14.5	X	96.63710	252.17437	35.33021	5.92896	0.0555129	0.15779556	3.3916123	21	11 12.1	19.3
100115 1993 HA_3	15.8	X	89.48479	243.51975	107.22985	4.98324	0.2327079	0.26623353	2.3931002	21	—	—
100116 1993 KG_1	15.8	X	251.51731	167.95396	205.50802	9.21122	0.1765659	0.24735300	2.5133787	21	5 19.8	19.6
100117 1993 KM_1	15.3	X	45.27050	51.95429	173.54857	5.19512	0.0583887	0.17909588	3.1170635	21	6 25.5	19.4
100118 1993 LG_1	14.7	X	156.80812	10.28713	265.14811	23.66804	0.1811418	0.26358927	2.4090782	21	—	—
100119 1993 OB	14.0	X	129.64158	84.03635	281.06914	21.44283	0.2971059	0.26323983	2.4112097	21	1 21.1	17.5
100120 1993 OW_4	15.4	X	175.46599	233.74408	113.74092	16.44939	0.1639614	0.23211685	2.6221947	21	2 9.4	19.6
100121 1993 OP_7	15.4	X	156.91298	174.00315	120.06080	13.30224	0.1846420	0.22669753	2.6638199	21	—	—
100122 Alpes Maritimes	14.6	X	300.74850	183.00027	167.84446	6.02923	0.1679317	0.17216630	3.2001521	21	6 22.5	18.9
100123 1993 QU_5	15.7	X	330.55358	168.39607	168.23125	8.23712	0.2289159	0.24474819	2.5311801	21	7 16.0	17.9
100124 1993 QD_7	16.4	X	197.56773	22.56132	353.58035	5.48116	0.1942158	0.30493466	2.1860740	21	3 27.5	19.7
100125 1993 QG_7	15.4	X	232.39021	206.25414	105.98689	2.21853	0.1055205	0.23269514	2.6178485	21	2 18.3	19.3
100126 1993 QK_7	15.3	X	201.82652	301.54302	346.21287	13.19727	0.1533496	0.22800455	2.6536301	21	—	—
100127 1993 QA_8	16.2	X	69.48840	193.29327	118.03073	3.58612	0.1861448	0.25255303	2.4787592	21	12 11.8	19.9
100128 1993 QK_8	15.7	X	196.81418	309.99176	346.61726	3.42359	0.1302822	0.22792552	2.6542434	21	—	—
100129 1993 RQ_1	17.2	X	158.73879	279.16388	189.86019	2.31107	0.1476643	0.27355669	2.3501982	21	6 21.7	20.8
100130 1993 RD_3	15.1	X	151.23302	162.85098	189.32638	15.34596	0.2892799	0.22712177	2.6605017	21	1 30.3	19.8
100131 1993 RU_5	16.6	X	8.68767	111.94272	318.33978	1.44123	0.1478346	0.28982764	2.2613937	21	—	—
100132 1993 RR_8	15.5	X	58.37763	170.31150	188.24815	4.73965	0.1221690	0.21894270	2.7263550	21	—	—
100133 Demosthenes	14.2	X	241.84006	298.83916	357.82011	2.56397	0.2080168	0.12554162	3.9501256	21	2 16.4	20.4
100134 1993 RT_{14}	15.0	X	136.89204	257.30394	356.19519	12.64193	0.1617783	0.21721076	2.7408283	21	11 23.9	19.7
100135 1993 RR_{16}	16.7	X	287.88194	23.34539	319.17181	1.09858	0.1871489	0.24019753	2.5630497	21	5 18.3	20.0
100136 1993 SM_4	15.5	X	153.84883	336.96305	357.80623	5.21546	0.2356492	0.22681240	2.6629204	21	1 11.7	19.8
100137 1993 SD_7	14.8	X	91.93541	49.57036	359.33049	9.39187	0.2839041	0.18902111	3.0069705	21	2 18.8	18.8
100138 1993 SN_{14}	15.7	X	74.95127	331.41422	352.63363	3.43157	0.1694910	0.21760674	2.7375023	21	12 25.0	19.8
100139 1993 TS	15.3	X	323.11956	352.27123	10.05875	9.50541	0.2564631	0.24413430	2.5354216	21	8 11.7	17.5
100140 1993 TP_2	16.6	X	2.42875	59.52585	330.81393	2.59896	0.2577498	0.28456841	2.2891711	21	—	—
100141 1993 TH_5	16.1	X	216.40494	131.60635	283.22922	3.75266	0.0673429	0.23622933	2.5916728	21	6 13.5	19.9
100142 1993 TK_6	16.3	X	328.70081	164.53489	4.77820	5.84984	0.0911351	0.29476569	2.2360667	21	—	—
100143 1993 TD_{11}	15.9	X	257.24481	97.80826	262.18946	2.12562	0.1831121	0.23711023	2.5852498	21	5 6.7	19.7
100144 1993 TM_{14}	16.8	X	353.54689	5.06354	36.40719	0.77585	0.2189270	0.28522079	2.2856791	21	—	—
100145 1993 TW_{14}	16.0	X	21.13825	157.32139	191.65652	3.28107	0.1076625	0.21315246	2.7755080	21	11 10.6	19.5
100146 1993 TQ_{15}	15.7	X	166.78075	312.54924	20.26557	10.66188	0.0929378	0.22588686	2.6701895	21	1 9.5	19.8
100147 1993 TV_{15}	16.2	X	294.46459	315.95022	26.29508	4.02235	0.2279690	0.24026200	2.5625912	21	5 19.9	19.5
100148 1993 TT_{16}	15.6	X	351.85566	254.68264	167.41858	5.66074	0.0909313	0.21626093	2.7488477	21	12 29.8	19.0
100149 1993 TM_{17}	16.0	X	271.91429	143.39196	186.18529	3.71801	0.0875030	0.23606580	2.5928696	21	4 26.6	19.4
100150 1993 TN_{17}	16.2	X	346.84977	213.17905	58.49607	3.49676	0.1071940	0.30932015	2.1653623	21	5 18.3	17.8
100151 1993 TT_{17}	16.1	X	267.02852	342.44988	25.93966	2.21776	0.2037449	0.23918318	2.5702910	21	5 25.7	20.0
100152 1993 TN_{19}	15.6	X	171.94346	306.68911	25.24000	6.22836	0.1243835	0.22640161	2.6661406	21	1 16.1	19.7
100153 1993 TF_{20}	15.9	X	285.16914	217.94237	108.52878	1.84228	0.1479401	0.23751047	2.5823447	21	4 30.4	19.3
100154 1993 TS_{23}	15.8	X	34.27387	165.35952	186.86970	12.79461	0.1593041	0.21472180	2.7619679	21	12 11.5	19.6
100155 1993 TG_{25}	16.3	X	242.41472	10.79767	45.63642	4.45272	0.1931059	0.23953116	2.5678010	21	7 3.4	20.3
100156 1993 TD_{26}	16.0	X	3.03384	142.66981	192.90040	14.13328	0.1256224	0.24545193	2.5263397	21	9 29.5	18.6
100157 1993 TU_{26}	16.0	X	157.74896	331.10368	102.11382	3.39735	0.1599886	0.23278811	2.6171514	21	5 8.2	20.0
100158 1993 TF_{27}	16.4	X	229.85813	250.44997	84.68473	3.41011	0.2096674	0.26855496	2.3792894	21	3 9.5	20.3
100159 1993 TP_{27}	14.9	X	197.91111	49.78575	97.69847	3.47176	0.1674948	0.24358637	2.5392223	21	9 18.6	18.9
100160 1993 TS_{27}	15.7	X	246.76878	28.62485	34.08241	14.75962	0.0823391	0.24100180	2.5573443	21	8 5.3	19.5

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
100161 1993 TV_{28}	15.6	X	308.23018	225.01137	92.69862	3.25966	0.0633317	0.20261316	2.8709411	21	6 4.1	19.4
100162 1993 TS_{30}	14.9	X	104.95370	207.82861	187.55070	12.28295	0.1467525	0.22445414	2.6815402	21	1 17.3	18.5
100163 1993 TN_{32}	15.8	X	251.59747	237.31660	173.35373	7.16716	0.1779289	0.23989703	2.5651896	21	7 6.3	19.6
100164 1993 TV_{38}	15.4	X	222.92097	165.41233	181.45527	9.67773	0.2447759	0.23286375	2.6165847	21	3 18.4	19.8
100165 1993 TN_{41}	15.4	X	354.13077	261.39255	163.43160	5.58666	0.0233469	0.21698975	2.7426890	21	12 30.8	19.2
100166 1993 UU_{1}	16.4	X	25.08496	305.05553	348.61332	2.61594	0.2120357	0.24428000	2.5344133	21	9 21.1	18.9
100167 1993 UN_{2}	16.1	X	183.01415	191.53514	312.13682	3.44025	0.1811216	0.23944133	2.5684432	21	8 27.7	20.2
100168 1993 UN_{4}	16.4	X	343.52070	207.14717	158.56051	6.40857	0.2518011	0.24602130	2.5224404	21	10 15.9	18.0
100169 1993 UW_{4}	15.9	X	215.74831	277.76688	148.19501	4.97979	0.2144104	0.23703108	2.5858253	21	6 18.9	20.2
100170 1993 UE_{8}	15.1	X	81.96126	313.57471	100.55774	6.12543	0.2128696	0.18759105	3.0222332	21	1 29.9	18.7
100171 1993 UJ_{8}	16.2	X	244.64991	247.91110	81.64315	7.49075	0.1450723	0.26845371	2.3798876	21	3 21.3	19.9
100172 1993 WL	15.8	X	147.86554	328.57365	244.90278	3.75177	0.0978950	0.24561918	2.5251927	21	10 21.7	19.7
100173 1993 XZ	16.2	X	204.59957	311.02861	74.67885	3.19492	0.2042402	0.26720483	2.3872973	21	4 19.6	20.1
100174 1994 AJ_{2}	15.6	X	157.11895	27.86177	316.26069	3.84839	0.1185269	0.21914416	2.7246838	21	1 15.3	19.7
100175 1994 AX_{4}	14.8	X	121.51788	262.69949	90.30521	2.48465	0.1401336	0.18024566	3.1037937	21	—	—
100176 1994 AD_{5}	15.5	X	303.57739	250.02225	48.61543	1.22141	0.0503003	0.19189666	2.9768556	21	5 5.8	19.6
100177 1994 AH_{5}	15.4	X	7.26056	301.80084	302.43680	2.74862	0.0828291	0.19202372	2.9755423	21	5 24.1	19.1
100178 1994 AW_{5}	16.8	X	64.32738	22.08655	336.54699	0.91616	0.2158985	0.28404413	2.2919871	21	—	—
100179 1994 AQ_{6}	15.2	X	232.39742	303.76621	113.40497	13.57772	0.1009999	0.23387116	2.6090652	21	7 2.7	19.1
100180 1994 AR_{9}	15.6	X	131.04684	58.49783	45.29525	2.18551	0.0511774	0.19089448	2.9872653	21	5 9.6	19.8
100181 1994 AN_{10}	16.4	X	11.45503	201.38673	101.27686	6.92608	0.2134459	0.30568777	2.1824820	21	9 21.9	17.9
100182 1994 AX_{10}	16.8	X	280.08328	48.40010	357.92535	3.46183	0.1565617	0.27280214	2.3545298	21	8 12.8	19.5
100183 1994 AA_{11}	16.3	X	173.95430	350.81359	38.21913	3.42086	0.1115730	0.22417504	2.6837653	21	3 27.7	20.3
100184 1994 AE_{12}	15.9	X	230.75604	183.97468	104.70663	3.22190	0.0591381	0.21933227	2.7231257	21	1 22.2	19.9
100185 1994 AC_{13}	17.3	X	165.50493	139.57785	45.45063	2.54532	0.1667825	0.27224850	2.3577208	21	10 7.0	20.9
100186 1994 BL_{2}	16.3	X	327.32237	12.21790	291.50497	1.76840	0.1939735	0.26685672	2.3893730	21	5 21.6	18.5
100187 1994 BT_{4}	17.2	X	256.01528	25.79302	88.64401	2.83505	0.1307821	0.27672356	2.3322331	21	10 19.5	19.9
100188 1994 CM_{1}	15.5	X	123.95854	328.02290	190.16687	3.10796	0.1535476	0.19302767	2.9652160	21	7 19.7	20.1
100189 1994 CK_{3}	15.4	X	232.37688	196.46526	166.89155	6.07276	0.1127509	0.22658543	2.6646984	21	4 24.3	19.5
100190 1994 CE_{4}	15.7	X	163.14155	291.44410	152.47567	3.89890	0.1525770	0.22761622	2.6566474	21	5 26.6	19.9
100191 1994 CX_{5}	17.0	X	268.01095	126.16412	287.66628	1.62687	0.1805755	0.27164696	2.3612003	21	7 31.6	20.0
100192 1994 CZ_{5}	15.5	X	278.45816	336.95662	136.42565	23.70515	0.2589572	0.27874265	2.3209570	21	11 10.6	18.4
100193 1994 CC_{7}	16.6	X	234.78816	44.92895	74.70318	1.00304	0.0507928	0.27262602	2.3555438	21	10 8.5	19.5
100194 1994 CK_{11}	14.6	X	15.61175	72.80688	346.56007	11.25479	0.3162127	0.17624134	3.1506309	21	—	—
100195 1994 CR_{12}	15.0	X	330.23588	61.26241	144.37080	18.60969	0.2557069	0.17960409	3.1111807	21	1 16.3	19.1
100196 1994 CL_{16}	14.8	X	126.47993	354.86950	112.58396	3.16609	0.2351486	0.18984652	2.9982485	21	5 28.8	19.6
100197 1994 CQ_{17}	16.3	X	166.21742	185.03465	0.41372	7.88926	0.1424966	0.27085528	2.3657990	21	10 6.7	19.9
100198 1994 EA_{1}	14.7	X	23.95466	84.37968	353.45639	15.80370	0.2461893	0.17726997	3.1384311	21	—	—
100199 1994 EF_{4}	14.4	X	149.47076	15.21345	356.79713	9.72863	0.1119435	0.18003697	3.1061917	21	2 17.3	19.1
100200 1994 EL_{4}	16.5	X	202.21251	280.26462	177.58536	2.63463	0.1763045	0.26746800	2.3857311	21	7 18.7	20.2
100201 1994 FD	17.0	X	63.31852	108.82544	15.58189	20.22270	0.0641928	0.36243129	1.9482840	21	2 15.8	19.1
100202 1994 GB	16.4	X	21.03231	280.32082	190.52940	22.81233	0.1004403	0.35840306	1.9628551	21	—	—
100203 1994 GF_{3}	16.5	X	200.94766	71.06993	18.76376	2.10982	0.1982522	0.26466568	2.4025418	21	7 6.9	20.3
100204 1994 GT_{3}	14.9	X	330.75641	130.60962	27.03805	4.65533	0.1317040	0.17452517	3.1712514	21	—	—
100205 1994 GB_{7}	16.2	X	138.24968	183.72475	21.33944	2.84743	0.1392772	0.26764165	2.3846991	21	10 5.6	19.7
100206 1994 HW	15.2	X	252.75580	89.74344	202.02582	10.95351	0.0573595	0.17819710	3.1275358	21	2 22.3	20.0
100207 1994 HB_{1}	16.4	X	327.31605	202.09845	194.83031	4.17002	0.1252339	0.26985606	2.3716354	21	10 29.2	18.5
100208 1994 JD_{2}	15.5	X	3.21372	28.92322	190.95270	3.61953	0.0862911	0.18250050	3.0781753	21	4 16.9	19.2
100209 1994 JG_{5}	16.6	X	165.11998	316.05877	200.73111	2.17484	0.1281247	0.26454577	2.4032678	21	8 29.5	20.2
100210 1994 LD_{1}	15.0	X	54.66145	306.58952	7.50454	16.11695	0.4079671	0.18958589	3.0009957	21	12 13.9	20.1
100211 1994 PF_{1}	15.7	X	281.62351	147.31160	119.59032	24.72005	0.0682702	0.35808864	1.9640039	21	1 26.3	17.7
100212 1994 PV_{3}	15.0	X	289.40400	36.06552	329.83222	14.37716	0.2210994	0.17882332	3.1202300	21	6 18.7	19.5
100213 1994 PD_{4}	15.4	X	292.27480	22.24284	350.35463	0.08423	0.1998946	0.17944567	3.1130115	21	7 3.9	19.6
100214 1994 PJ_{4}	16.6	X	56.72634	178.59776	227.17856	1.29202	0.1241180	0.26868212	2.3785386	21	—	—
100215 1994 PV_{5}	14.8	X	354.14218	120.00269	235.89450	1.28253	0.1107956	0.18453421	3.0555176	21	10 2.0	18.5
100216 1994 PQ_{6}	17.2	X	172.12478	264.78887	31.50380	0.48868	0.2174250	0.27191174	2.3596671	21	—	—
100217 1994 PL_{7}	15.0	X	256.81950	41.83039	332.74204	6.96883	0.1957854	0.17628442	3.1501175	21	5 25.1	20.1
100218 1994 PV_{7}	16.2	X	190.48945	221.24482	106.97858	0.80118	0.1564465	0.23910605	2.5708437	21	1 27.9	20.1
100219 1994 PG_{8}	17.2	X	85.15315	240.36410	138.01097	3.08364	0.2433606	0.26824371	2.3811295	21	—	—
100220 1994 PT_{10}	14.8	X	37.86068	331.37984	337.83349	8.70962	0.0558553	0.18505171	3.0498184	21	9 29.5	19.0
100221 1994 PP_{12}	15.7	X	266.27317	123.26773	204.54000	1.99392	0.0455383	0.24663071	2.5182835	21	4 21.1	19.0
100222 1994 PU_{12}	16.3	X	171.98277	172.31269	190.97524	3.09540	0.1791140	0.23954959	2.5676693	21	2 22.7	20.5
100223 1994 PZ_{12}	14.9	X	288.17150	168.20232	160.74009	13.53763	0.1666153	0.17646968	3.1479125	21	5 12.2	19.6
100224 1994 PO_{13}	15.9	X	225.79713	85.69669	287.18113	2.26245	0.1664305	0.24600918	2.5225232	21	4 22.6	20.0
100225 1994 PS_{13}	14.5	X	315.81943	81.55730	321.26429	7.91453	0.0740555	0.18452526	3.0556164	21	9 30.9	18.6
100226 1994 PJ_{16}	15.6	X	286.91894	45.12910	323.84503	2.85339	0.2041482	0.21502509	2.7593702	21	6 20.8	19.3
100227 1994 PR_{16}	15.8	X	110.02742	141.19815	248.89764	1.97766	0.0622134	0.23605510	2.5929479	21	1 4.3	19.2
100228 1994 PH_{17}	16.5	X	118.59751	0.45698	333.65764	1.88534	0.2257015	0.26880802	2.3777959	21	—	—
100229 Jeanbailly	13.9	X	142.87021	197.24705	163.91945	4.75642	0.2394955	0.12562864	3.9483013	21	2 13.4	20.3
100230 1994 PN_{18}	15.4	X	315.22739	75.28461	300.69282	1.15327	0.2018030	0.18097187	3.0954848	21	8 13.8	19.0
100231 Monceau	14.5	X	133.80481	13.43251	7.89825	2.78353	0.2939876	0.12503534	3.9607813	21	3 5.5	21.0
100232 1994 PU_{23}	16.0	X	186.59393	9.88162	349.43468	2.02566	0.1072558	0.24068126	2.5596143	21	2 28.7	19.8
100233 1994 PL_{24}	14.4	X	302.87741	9.71209	332.03047	27.04358	0.1179576	0.17894589	3.1188050	21	6 25.9	19.0
100234 1994 PS_{24}	14.8	X	291.62093	315.63818	60.40523	2.12321	0.1595201	0.17984783	3.1083691	21	7 14.1	19.0
100235 1994 PX_{24}	16.5	X	127.93774	287.07243	93.57548	1.97195	0.1832675	0.23667926	2.5883872	21	2 2.1	20.1
100236 1994 PS_{27}	16.2	X	22.91994	354.58545	67.10196	2.30455	0.1206913	0.26685834	2.3893633	21	—	—
100237 1994 PG_{31}	15.8	X	195.36280	39.91172	260.06751	3.94595	0.2366889	0.23776986	2.5804663	21	1 2.1	20.2
100238 1994 PY_{31}	16.1	X	164.82686	91.05072	202.38574	4.83073	0.1606024	0.27029061	2.3690928	21	—	—
100239 1994 PE_{32}	15.0	X	232.28177	113.51410	286.51513	3.97656	0.1470511	0.17547154	3.1598388	21	6 7.1	19.9
100240 1994 PV_{33}	14.6	X	290.47317	57.03218	298.75862	4.54012	0.1996879	0.17875417	3.1210346	21	6 9.5	18.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
100241 1994 PK_{35}	16.1	X	16.57043	44.33641	266.41484	1.95782	0.1822671	0.25704597	2.4497900	21	9 26.6	18.3
100242 1994 PS_{35}	16.3	X	78.43920	162.04576	208.20078	1.48178	0.2291094	0.26734831	2.3864431	21	—	—
100243 1994 PO_{37}	16.2	X	175.48523	158.70421	199.19283	1.86034	0.2440760	0.27632442	2.3344784	21	2 19.1	20.0
100244 1994 QB	14.7	X	309.88710	215.53282	111.52811	24.61983	0.2888204	0.17723095	3.1388918	21	5 24.9	19.2
100245 1994 RT_{2}	16.4	X	18.02674	159.67794	167.85168	4.78450	0.1881981	0.25848823	2.4406689	21	10 28.8	18.8
100246 1994 RD_{3}	16.1	X	78.12765	27.94446	331.13068	6.26699	0.1264301	0.26692548	2.3889626	21	—	—
100247 1994 RA_{7}	16.7	X	43.57091	254.79396	219.66821	1.80371	0.0341025	0.27328573	2.3517514	21	1 9.6	19.3
100248 1994 RB_{13}	16.2	X	213.75527	197.26561	176.25203	3.56708	0.1109666	0.24556147	2.5255884	21	4 15.5	20.1
100249 1994 RW_{13}	15.5	X	229.11108	247.87971	185.97127	11.17636	0.1832707	0.17530613	3.1618261	21	7 11.2	20.8
100250 1994 RN_{15}	16.4	X	228.04455	94.66694	157.83475	5.07772	0.2025240	0.27389601	2.3482568	21	—	—
100251 1994 RC_{17}	14.6	X	266.14295	50.04399	335.87129	10.62288	0.1073136	0.17804332	3.1293364	21	7 2.8	19.3
100252 1994 RY_{25}	15.0	X	262.52353	240.96357	189.51570	9.33721	0.0724112	0.18114401	3.0935233	21	8 25.6	19.4
100253 1994 SB_{2}	15.4	X	335.67966	258.84628	72.34059	2.31858	0.2416047	0.17971899	3.1098545	21	7 17.9	18.4
100254 1994 SG_{4}	15.9	X	164.16080	254.67605	5.82641	4.27422	0.0809687	0.22792890	2.6542172	21	—	—
100255 1994 SJ_{5}	16.0	X	294.16060	220.98618	11.20029	11.64303	0.1386919	0.23840121	2.5759084	21	1 13.3	19.9
100256 1994 SU_{5}	15.5	X	65.21418	160.66875	179.88827	6.56927	0.1041221	0.18844329	3.0131143	21	12 21.2	20.0
100257 1994 SF_{9}	16.0	X	77.34487	191.27532	177.04286	2.48714	0.0441474	0.22892400	2.6465199	21	—	—
100258 1994 SW_{10}	15.1	X	239.38639	227.56499	146.79966	1.97347	0.1957150	0.17279062	3.1924390	21	5 10.9	20.2
100259 1994 TX_{4}	16.2	X	314.07168	174.19304	21.13200	5.20205	0.1351895	0.23521526	2.5991163	21	—	—
100260 1994 TF_{5}	16.6	X	31.32678	240.64527	181.11468	4.96046	0.2006128	0.26454279	2.4032859	21	—	—
100261 1994 TR_{6}	15.8	X	158.35974	154.77917	172.84260	3.57309	0.2339003	0.23437916	2.6052939	21	1 4.5	20.0
100262 1994 TV_{10}	15.8	X	33.22355	72.92752	200.63396	10.62465	0.1101352	0.25266051	2.4780561	21	8 18.1	18.8
100263 1994 TL_{11}	15.2	X	62.20638	224.83969	196.92147	15.79381	0.1705108	0.23131563	2.6282463	21	—	—
100264 1994 TS_{11}	16.0	X	345.95164	179.77067	56.39531	1.74920	0.0253620	0.24129830	2.5552489	21	4 10.1	19.1
100265 1994 TH_{14}	15.2	X	303.50021	341.44764	70.38740	1.71179	0.1784832	0.18035208	3.1025726	21	9 15.6	18.8
100266 Sadamisaki	15.7	X	69.77186	186.51789	180.00066	13.01873	0.2226453	0.22686118	2.6625387	21	—	—
100267 JAXA	15.4	X	306.50702	233.47336	21.37863	3.56114	0.1735363	0.24173410	2.5521769	21	2 18.5	18.8
100268 Rosenthal	15.5	X	8.60023	355.37606	22.49335	11.75335	0.1675455	0.25862971	2.4397787	21	12 17.4	18.3
100269 1994 UM_{6}	14.4	X	57.77695	232.50761	16.40208	11.13855	0.2111654	0.17794581	3.1304796	21	9 8.4	18.7
100270 1994 VQ	15.7	X	335.14583	39.92187	8.46364	1.48668	0.1692119	0.25651321	2.4531808	21	11 28.6	17.8
100271 1994 VP_{1}	15.4	X	174.69130	160.72150	252.34369	6.98030	0.1772573	0.23964557	2.5669837	21	4 26.5	19.5
100272 1994 VX_{6}	14.1	X	341.62839	298.12109	66.52808	9.86416	0.3506088	0.18054816	3.1003258	21	9 23.7	16.4
100273 1994 WO_{1}	15.9	X	72.83730	318.16513	68.94555	8.64670	0.2480116	0.26399987	2.4065796	21	—	—
100274 1994 WU_{5}	16.9	X	262.80695	228.25075	211.74123	2.58990	0.0886735	0.25173173	2.4841477	21	9 12.2	20.1
100275 1994 WW_{12}	15.3	X	72.71097	148.84251	286.09619	11.60616	0.0845138	0.19059836	2.9903587	21	1 22.4	19.2
100276 1994 XV	15.8	X	355.51131	220.02059	231.42910	21.04461	0.3718115	0.25982873	2.4322671	21	—	—
100277 1994 XB_{5}	15.9	X	270.59500	264.80291	226.06328	8.80917	0.2008226	0.25465058	2.4651287	21	11 17.0	18.5
100278 1994 YN	14.5	X	256.88044	292.32624	100.98532	13.58251	0.2742604	0.24533383	2.5271504	21	6 10.3	18.6
100279 1994 YL_{4}	17.1	X	65.26229	169.20512	326.27532	0.76632	0.1299210	0.26921476	2.3754003	21	3 23.8	19.4
100280 1995 BQ_{1}	15.8	X	194.34021	349.15411	121.15756	4.59878	0.1591980	0.24205574	2.5499155	21	7 28.3	19.7
100281 1995 BX_{7}	16.8	X	253.85613	200.10904	357.07513	2.03526	0.1240775	0.29289948	2.2455548	21	—	—
100282 1995 BZ_{7}	16.0	X	32.35012	314.75400	93.41271	2.36833	0.0495300	0.21901628	2.7257443	21	—	—
100283 1995 BU_{8}	15.2	X	31.93657	65.18530	53.34646	1.96040	0.1183291	0.18884096	3.0088827	21	1 19.7	18.7
100284 1995 BC_{14}	17.1	X	196.46111	135.67639	255.74261	1.53737	0.1281867	0.30968474	2.1636625	21	4 14.0	20.2
100285 1995 CG_{3}	15.1	X	41.54975	105.54953	149.08656	8.84289	0.1144976	0.20165715	2.8800076	21	8 5.1	18.6
100286 1995 CY_{4}	15.7	X	55.38594	79.42276	238.82720	1.33352	0.0906022	0.21117229	2.7928316	21	11 14.4	19.4
100287 1995 CK_{5}	17.2	X	3.86160	155.51609	262.25045	2.66521	0.0929737	0.29208162	2.2497446	21	—	—
100288 1995 CZ_{5}	16.0	X	354.45413	17.32130	291.72827	4.32051	0.2718047	0.24014268	2.5634400	21	8 4.0	17.2
100289 1995 CD_{6}	16.5	X	318.36809	22.20220	284.80513	2.90888	0.1535283	0.23663301	2.5887245	21	5 19.3	19.4
100290 1995 CL_{6}	16.1	X	303.17812	219.75457	149.72189	6.13696	0.1439339	0.24333862	2.5409455	21	7 25.8	18.9
100291 1995 CM_{8}	15.9	X	254.22238	302.27536	146.48144	13.76700	0.1752362	0.24438298	2.5337013	21	8 31.8	19.4
100292 Harmandir	15.4	X	110.39615	144.04525	20.34021	4.71336	0.1730002	0.23577595	2.5949942	21	7 17.9	19.2
100293 1995 DY_{7}	15.5	X	269.96827	156.08760	163.72858	18.01424	0.1992819	0.22979687	2.6398139	21	3 31.8	19.6
100294 1995 DM_{9}	15.1	X	178.04718	235.95241	77.25213	1.86852	0.1910147	0.18080568	3.0973813	21	1 9.9	20.2
100295 1995 EC_{5}	15.6	X	143.43732	43.79122	134.37775	2.89242	0.0056666	0.20252014	2.8718201	21	8 26.1	19.4
100296 1995 FB	15.3	X	283.77119	324.48047	349.76057	14.14846	0.1123944	0.23019030	2.6368051	21	4 11.9	19.1
100297 1995 FU_{2}	15.7	X	345.63272	222.97424	112.53184	3.17079	0.0722481	0.20261551	2.8709189	21	8 24.7	19.1
100298 1995 FY_{6}	17.3	X	321.69336	41.61838	143.41322	3.96817	0.0489405	0.29691405	2.2252674	21	—	—
100299 1995 FR_{7}	15.4	X	295.77770	256.83506	120.27389	5.96240	0.2442387	0.23914557	2.5705604	21	7 7.9	18.3
100300 1995 FS_{7}	15.9	X	295.83292	173.86720	112.50870	5.19679	0.0678399	0.22809254	2.6529476	21	4 5.9	19.5
100301 1995 FH_{12}	15.4	X	46.16497	130.87015	13.01612	9.83153	0.1075946	0.18863031	3.0111223	21	3 17.7	19.0
100302 1995 FQ_{14}	16.1	X	240.70899	194.61337	173.69403	12.15118	0.1914392	0.23114687	2.6295254	21	5 3.9	20.5
100303 1995 FD_{15}	15.1	X	13.68709	164.00000	33.78465	10.58494	0.0150882	0.18961600	3.0006780	21	4 5.9	19.3
100304 1995 FJ_{20}	17.5	X	309.48861	101.42590	81.11350	1.81552	0.1016582	0.29529107	2.2334137	21	—	—
100305 1995 GN_{1}	15.4	X	314.63677	336.95367	25.33580	17.11758	0.2073295	0.23780988	2.5801768	21	8 3.8	18.5
100306 1995 GH_{2}	15.9	X	157.53638	80.66169	49.12011	4.79736	0.0942264	0.23604643	2.5930114	21	7 16.6	19.7
100307 1995 GJ_{8}	15.6	X	345.56745	65.06447	198.68395	3.81386	0.1684740	0.22906803	2.6454104	21	5 5.3	18.3
100308 ČAS	16.0	X	35.74548	104.41644	30.44741	6.04897	0.0744067	0.29746903	2.2224989	21	1 20.7	18.2
100309 Misuzukaneko	15.6	X	213.71408	53.99842	57.70941	3.91541	0.1782676	0.24301635	2.5431914	21	8 18.4	19.6
100310 1995 HK_{3}	15.9	X	44.24548	18.11541	128.53291	3.02332	0.0204250	0.22335667	2.6903169	21	3 5.9	19.5
100311 1995 HZ_{3}	15.8	X	195.38818	239.97796	90.81768	4.65849	0.1841296	0.21808165	2.7335266	21	2 9.2	20.3
100312 1995 LQ	16.4	X	110.03896	56.53316	252.37449	2.33286	0.1678287	0.27723763	2.3293492	21	—	—
100313 1995 LD_{1}	16.1	X	130.57223	169.77159	149.24650	4.08564	0.1533515	0.24575409	2.5242685	21	—	—
100314 1995 MK_{1}	14.9	X	338.62971	101.43993	196.51108	11.07371	0.1038447	0.19159990	2.9799287	21	6 19.2	18.7
100315 1995 MZ_{1}	15.1	X	196.87256	250.78837	121.51457	10.36231	0.2964163	0.22023290	2.7156966	21	4 4.0	20.2
100316 1995 MM_{2}	16.2	X	293.95991	175.63449	174.68022	4.84719	0.2499852	0.29967544	2.2115764	21	5 25.5	18.9
100317 1995 MJ_{3}	15.4	X	94.60783	283.71717	155.64697	7.39046	0.0463468	0.21975953	2.7195950	21	2 17.0	18.8
100318 1995 MN_{4}	15.2	X	131.32411	166.91209	179.84428	7.61631	0.1333198	0.16881188	3.2424059	21	1 1.3	20.1
100319 1995 MY_{4}	16.2	X	169.06702	156.26227	128.43714	7.66412	0.1152265	0.28581033	2.2825349	21	—	—
100320 1995 MF_{5}	15.9	X	355.88729	33.66506	192.73133	6.65829	0.1529307	0.18221542	3.0813850	21	4 9.5	19.3

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
100321 1995 MG_8	17.2	X	111.55046	121.54847	149.25418	7.41553	0.1062989	0.27854378	2.3220616	21	12 2.6	20.6
100322 1995 MJ_8	16.3	X	79.49142	139.77532	172.02040	6.59454	0.1314524	0.27474645	2.3434084	21	12 20.8	19.8
100323 1995 OY_1	16.2	X	60.85722	116.89047	202.71230	7.41260	0.2403995	0.27348327	2.3506188	21	12 22.2	19.8
100324 1995 OH_3	16.4	X	231.21961	203.81980	142.59577	5.65486	0.1657134	0.29249691	2.2476147	21	3 23.9	19.8
100325 1995 OC_4	15.7	X	354.84892	28.29655	315.35866	3.29181	0.0980911	0.26718578	2.3874108	21	9 26.7	18.1
100326 1995 OR_4	15.5	X	49.79775	188.24797	138.64687	2.70387	0.0739128	0.19548158	2.9403486	21	11 14.1	19.4
100327 1995 QX	14.0	X	218.86642	117.92517	174.24393	26.67381	0.2763184	0.17197737	3.2024954	21	1 16.7	20.1
100328 1995 QF_4	16.3	X	288.61419	59.96185	320.28650	3.29998	0.1356751	0.29932200	2.2133170	21	7 22.0	18.6
100329 1995 QW_8	14.5	X	250.94821	325.24973	306.83061	15.16330	0.0651950	0.17379539	3.1801228	21	1 30.6	19.2
100330 1995 QY_8	15.3	X	74.70708	325.29117	174.50023	10.01626	0.0335787	0.17907969	3.1172514	21	4 14.9	19.6
100331 1995 QV_9	16.4	X	253.65970	255.53703	357.07285	6.71697	0.0962237	0.28352977	2.2947583	21	—	—
100332 1995 QW_{11}	16.7	X	71.59409	293.76543	261.53728	1.49647	0.1397245	0.25698889	2.4501527	21	7 4.7	19.7
100333 1995 SN_5	15.7	X	181.76753	261.35955	14.47803	24.14755	0.3114000	0.28258718	2.2998583	21	—	—
100334 1995 SZ_{10}	16.7	X	318.27677	357.45200	11.67970	2.69355	0.2092985	0.26305878	2.4123159	21	8 16.9	18.5
100335 1995 SC_{12}	15.4	X	109.66680	67.43767	176.02696	9.88654	0.0450292	0.19175478	2.9783238	21	10 10.2	19.7
100336 1995 SQ_{18}	17.2	X	186.02105	331.86773	301.66151	0.47823	0.0380382	0.31569510	2.1361126	21	—	—
100337 1995 SY_{36}	14.7	X	297.74815	151.38633	179.80316	9.91554	0.1117503	0.18309673	3.0714892	21	6 2.1	19.0
100338 1995 ST_{39}	15.2	X	328.85124	94.73181	352.20377	10.63361	0.0827031	0.19763689	2.9189324	21	12 21.9	19.1
100339 1995 SP_{40}	15.0	X	200.70178	226.07983	149.12032	3.35377	0.0744326	0.17735966	3.1373729	21	4 11.0	19.7
100340 1995 SQ_{41}	15.0	X	199.10380	212.85795	138.42878	1.96010	0.1768286	0.17385587	3.1793851	21	3 11.7	20.3
100341 1995 ST_{44}	16.1	X	47.84338	175.57972	193.15801	3.98948	0.3077716	0.27273518	2.3549152	21	—	—
100342 1995 SH_{51}	16.5	X	222.99813	25.87644	9.51146	5.10438	0.0011720	0.29359575	2.2420031	21	5 27.5	19.1
100343 1995 SJ_{51}	17.1	X	157.65280	293.01437	3.42970	2.23459	0.2088843	0.27844863	2.3225906	21	—	—
100344 1995 SY_{51}	16.2	X	44.01860	264.47544	14.04081	5.31621	0.1763834	0.26407248	2.4061385	21	9 28.7	18.9
100345 1995 ST_{61}	16.4	X	249.65657	204.08531	163.76950	5.63512	0.2189970	0.29542416	2.2327428	21	5 4.8	19.9
100346 1995 SA_{68}	15.3	X	264.67791	188.83504	173.98282	27.10392	0.1490248	0.22000011	2.7176120	21	5 27.1	19.8
100347 1995 SE_{69}	16.2	X	64.04033	340.93112	350.55152	6.65788	0.1344752	0.27258903	2.3557568	21	12 29.5	19.6
100348 1995 SJ_{72}	14.6	X	188.81687	133.65170	219.61195	10.58663	0.2177849	0.17501940	3.1652785	21	3 2.2	20.2
100349 1995 SM_{78}	16.5	X	14.22924	56.14373	196.89393	6.04385	0.1124987	0.29568909	2.2314090	21	6 14.7	18.5
100350 1995 SP_{82}	15.6	X	15.42822	71.96702	178.13329	0.57700	0.1099492	0.18034196	3.1026886	21	6 16.5	19.2
100351 1995 SU_{88}	17.4	X	121.13346	199.80816	356.49032	0.64151	0.1293129	0.26101108	2.4249163	21	9 5.3	20.8
100352 1995 TD_1	15.3	X	234.02711	315.81205	118.14694	2.38208	0.1322142	0.18198558	3.0839789	21	7 22.5	20.0
100353 1995 TC_2	16.4	X	317.62434	166.84590	200.26343	1.67441	0.2251924	0.26218124	2.4176957	21	8 7.3	18.2
100354 1995 TR_4	17.3	X	165.94135	325.30721	208.36692	1.81895	0.1312893	0.26273389	2.4143042	21	9 21.4	21.0
100355 1995 TO_6	16.5	X	122.99188	98.42534	15.61214	3.03961	0.1581896	0.28829464	2.2694033	21	5 20.2	19.5
100356 1995 TC_7	16.8	X	11.74407	332.90110	349.31525	2.25615	0.2179786	0.26436584	2.4043582	21	10 12.3	18.9
100357 1995 TF_{11}	15.3	X	271.52751	167.18244	212.77252	3.56020	0.0413474	0.18201574	3.0836383	21	7 9.4	19.6
100358 1995 UK_2	14.7	X	203.10991	221.60988	221.12788	10.92331	0.1417852	0.17858999	3.1229472	21	6 30.6	19.9
100359 1995 UK_8	16.2	X	261.91342	17.91398	33.98145	8.19132	0.2032389	0.29718596	2.2239099	21	7 20.4	19.2
100360 1995 UE_{12}	16.6	X	77.11426	85.81708	3.84778	2.55137	0.1248513	0.24398843	2.5364320	21	2 12.1	19.4
100361 1995 UC_{14}	16.0	X	317.00324	146.67737	191.08414	0.47687	0.2049569	0.26041156	2.4286367	21	6 23.1	18.4
100362 1995 UJ_{14}	15.8	X	140.76860	54.72694	249.70996	3.18095	0.2209604	0.27651346	2.3334144	21	—	—
100363 1995 US_{14}	16.4	X	69.00313	352.17254	316.72898	1.62329	0.2122665	0.26921508	2.3753984	21	12 13.4	19.8
100364 1995 UF_{22}	16.2	X	109.28217	308.69835	19.57364	2.48978	0.2120339	0.27586742	2.3370560	21	—	—
100365 1995 UE_{32}	16.3	X	267.69302	275.01710	59.85728	5.99120	0.2035668	0.29310641	2.2444977	21	4 11.1	19.5
100366 1995 UZ_{39}	16.8	X	204.86495	145.42565	223.43380	3.75235	0.1649319	0.28980664	2.2615030	21	3 25.3	20.4
100367 1995 UY_{40}	16.5	X	313.54564	156.76926	221.71413	4.82003	0.2053300	0.26360678	2.4089715	21	8 18.5	18.7
100368 1995 UG_{41}	17.0	X	212.05413	203.99084	208.13074	8.58852	0.1473401	0.29397477	2.2400756	21	5 30.5	20.3
100369 1995 UX_{45}	16.5	X	260.78683	102.05302	217.43000	6.54298	0.1952984	0.29150195	2.2527262	21	3 11.6	20.0
100370 1995 UJ_{51}	16.1	X	299.68868	153.21589	171.46815	3.42421	0.1942609	0.25817476	2.4426441	21	5 8.7	19.0
100371 1995 UO_{52}	16.7	X	96.93584	71.49410	203.25753	4.52876	0.1612120	0.27007554	2.3703504	21	11 24.2	20.2
100372 1995 UR_{54}	16.3	X	125.58412	174.85596	109.79810	3.75319	0.1648180	0.27079100	2.3661734	21	—	—
100373 1995 UV_{69}	16.7	X	274.57251	47.33522	233.74009	5.72013	0.0978436	0.28662477	2.2782090	21	2 13.4	20.0
100374 1995 UX_{69}	16.0	X	351.32038	73.20840	288.54531	2.08848	0.1330190	0.18781263	3.0198556	21	10 5.7	19.4
100375 1995 UY_{72}	17.4	X	179.43893	299.38017	140.82566	2.15616	0.1219884	0.29286704	2.2457206	21	6 3.4	20.7
100376 1995 UT_{73}	15.8	X	9.94087	303.76975	194.39268	4.81312	0.0611635	0.24042300	2.5614470	21	—	—
100377 1995 VH	14.0	X	267.69743	161.64148	254.48127	12.45896	0.1981291	0.18107044	3.0943613	21	7 25.3	18.6
100378 1995 VD_6	16.2	X	320.17718	38.28263	65.74789	0.96863	0.0787274	0.23124559	2.6287770	21	—	—
100379 1995 VZ_6	16.2	X	198.17032	206.76660	216.61268	1.76353	0.1818967	0.25258671	2.4785388	21	5 31.8	20.2
100380 1995 VS_{10}	15.3	X	276.14322	293.37069	68.82430	5.96398	0.1780219	0.21914768	2.7246546	21	6 1.7	19.2
100381 1995 VB_{13}	15.4	X	353.16954	324.54801	59.31306	9.54980	0.1315751	0.19008201	2.9957717	21	11 9.9	18.9
100382 1995 VF_{13}	16.0	X	343.18070	176.08246	134.08927	2.93232	0.2014837	0.26011616	2.4304750	21	7 7.8	17.6
100383 1995 VD_{15}	17.0	X	63.61123	272.54093	228.33092	0.43128	0.1542940	0.24470599	2.5314711	21	4 5.7	19.7
100384 1995 VH_{15}	16.7	X	92.54902	53.84743	258.76965	0.42679	0.1954772	0.27047635	2.3680081	21	—	—
100385 1995 VP_{15}	16.6	X	47.47014	227.38931	60.56802	3.04370	0.1973499	0.26260584	2.4150889	21	10 20.6	19.5
100386 1995 WZ_2	16.2	X	310.65907	326.64677	64.57322	3.89934	0.2150264	0.26188470	2.4195205	21	9 5.5	18.2
100387 1995 WJ_4	14.6	X	322.35407	15.93291	75.45073	8.43295	0.1672430	0.19045447	2.9918646	21	12 13.6	17.6
100388 1995 WW_7	14.3	X	300.13836	136.72661	257.19147	12.48053	0.2504173	0.18277241	3.0751216	21	7 31.3	18.4
100389 1995 WU_8	16.4	X	227.20330	262.88360	62.94876	6.73554	0.1503758	0.28543043	2.2845598	21	2 24.7	20.0
100390 1995 WK_{13}	16.1	X	293.88976	161.51650	101.34272	6.07740	0.1395955	0.28495658	2.2870917	21	2 11.4	19.2
100391 1995 WO_{17}	16.5	X	48.10052	17.58725	315.93537	1.73086	0.2004752	0.26903302	2.3764699	21	12 21.1	19.8
100392 1995 WR_{17}	16.9	X	19.89109	140.84794	0.69870	2.63075	0.1762486	0.27968382	2.3157473	21	—	—
100393 1995 WZ_{30}	16.0	X	356.65448	22.52629	63.79790	3.47946	0.1352427	0.23291939	2.6161680	21	—	—
100394 1995 WX_{32}	16.6	X	178.73890	321.79653	83.82783	3.88659	0.1707968	0.28864441	2.2675696	21	4 20.3	20.0
100395 1995 WG_{38}	16.4	X	8.03471	116.83867	28.58830	7.79910	0.1596952	0.24043776	2.5613422	21	—	—
100396 1995 YH_5	16.2	X	68.96596	129.20438	77.98400	6.18725	0.0483184	0.25394867	2.4696690	21	7 2.9	19.3
100397 1995 YK_5	14.9	X	290.06979	280.08136	70.79579	10.66475	0.0866277	0.17899764	3.1182039	21	6 19.4	19.2
100398 1995 YA_7	16.6	X	271.92699	54.45756	178.41663	2.16332	0.1603933	0.27801673	2.3249954	21	—	—
100399 1995 YM_7	15.6	X	78.52931	215.75535	155.31078	3.36382	0.0309463	0.19551227	2.9400409	21	—	—
100400 1995 YX_7	16.3	X	79.00903	89.86508	236.70148	4.76806	0.2023467	0.27066177	2.3669265	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
100401 1995 YS_{17}	15.6	X	343.45157	270.71220	135.57858	3.20287	0.1691882	0.18915629	3.0055378	21	11 24.0	18.8
100402 1995 YP_{20}	16.2	X	277.98259	9.75692	244.07456	3.37579	0.1854070	0.23625407	2.5914918	21	1 15.4	20.4
100403 1996 AD	15.1	X	38.72706	130.35859	296.65842	21.54328	0.2458193	0.27150378	2.3620303	21	—	—
100404 1996 AC_{1}	16.1	X	251.31908	158.50962	294.41593	17.50727	0.0904147	0.37304523	1.9111512	21	9 15.9	18.4
100405 1996 AG_{5}	16.3	X	99.83976	5.60363	37.70340	2.87825	0.0273828	0.23478593	2.6022838	21	1 3.7	19.7
100406 1996 AU_{5}	14.8	X	203.80001	341.17282	95.64551	6.24310	0.1374040	0.17273788	3.1930888	21	6 25.5	19.7
100407 1996 AH_{6}	16.4	X	129.82450	303.36116	65.41231	3.25093	0.1808962	0.27480335	2.3430849	21	1 12.2	19.3
100408 1996 AV_{6}	15.5	X	218.23781	4.86352	92.48796	6.05780	0.0733394	0.21422462	2.7662396	21	8 12.1	19.6
100409 1996 AX_{8}	16.0	X	170.41883	22.50595	153.10205	3.28898	0.0250562	0.21728402	2.7402122	21	9 27.9	19.8
100410 1996 AZ_{10}	16.4	X	238.68495	87.34652	151.04556	4.46063	0.1093015	0.26894559	2.3769849	21	—	—
100411 1996 AF_{11}	16.4	X	10.23156	278.49446	258.26227	2.49600	0.1872839	0.23738594	2.5832477	21	2 9.3	18.8
100412 1996 AT_{11}	16.4	X	161.60891	106.83180	241.94388	5.87707	0.1373555	0.27416163	2.3467398	21	1 16.2	19.7
100413 1996 AF_{18}	16.0	X	5.43644	172.24861	234.73959	2.02898	0.1920290	0.22681160	2.6629266	21	—	—
100414 1996 AJ_{18}	15.6	X	305.86338	61.05425	284.23090	5.58349	0.1555809	0.21281070	2.7784787	21	6 24.1	19.1
100415 1996 BO_{14}	16.0	X	342.70544	105.10819	40.82166	4.61228	0.0917944	0.23085315	2.6317553	21	—	—
100416 Syang	15.9	X	284.10415	87.19434	319.17051	17.31644	0.1194132	0.37030129	1.9205807	21	8 28.9	17.4
100417 Philipglass	15.8	X	48.28684	319.68465	131.13993	5.35491	0.1432883	0.23547448	2.5972085	21	—	—
100418 1996 EF_{9}	16.4	X	171.17398	245.54815	150.97727	4.81535	0.1892072	0.24091272	2.5579746	21	4 6.4	20.5
100419 1996 EP_{10}	16.0	X	113.51378	279.47171	356.33473	2.46025	0.1630666	0.25634707	2.4542406	21	12 8.3	19.9
100420 1996 EA_{11}	16.0	X	54.23400	164.74552	111.70822	1.68209	0.0335808	0.21231718	2.7827827	21	9 12.5	19.8
100421 1996 FF_{4}	15.1	X	196.82067	191.71953	28.01295	10.45843	0.1191292	0.22312752	2.6921585	21	12 13.8	19.2
100422 1996 GP_{7}	15.3	X	76.98122	255.12288	40.58330	5.35019	0.0458487	0.21321931	2.7749278	21	11 6.7	19.1
100423 1996 GG_{14}	16.4	X	204.92324	260.38650	57.18881	2.88245	0.1804433	0.26676630	2.3899129	21	1 25.6	20.3
100424 1996 GS_{18}	14.7	X	176.72471	245.72462	51.34248	4.28550	0.0899726	0.18321339	3.0701853	21	—	—
100425 1996 HM	16.5	X	321.53217	98.71880	170.92725	4.90420	0.2797201	0.23417740	2.6067901	21	3 12.9	19.7
100426 1996 HB_{7}	15.9	X	174.91656	259.49373	139.68347	4.73322	0.2385660	0.23761820	2.5815641	21	4 15.3	20.4
100427 1996 HQ_{10}	15.3	X	123.98125	88.23126	211.91114	11.54310	0.2104941	0.21564290	2.7540973	21	—	—
100428 1996 HT_{11}	14.9	X	304.03229	114.41084	42.38886	1.32168	0.1415424	0.18472739	3.0533870	21	—	—
100429 1996 HB_{15}	14.9	X	126.41517	229.84506	45.44745	6.79682	0.0750745	0.21483786	2.7609731	21	12 9.9	19.1
100430 1996 HK_{18}	15.2	X	250.44989	320.76669	51.11568	14.42409	0.1499167	0.23837640	2.5760871	21	5 18.0	18.9
100431 1996 HU_{20}	14.9	X	233.72483	343.29666	208.11934	2.94450	0.1831739	0.18015782	3.1048024	21	12 5.6	19.5
100432 1996 HX_{23}	16.0	X	41.70431	192.89772	63.48160	6.98697	0.1486051	0.24179313	2.5517615	21	8 19.8	19.0
100433 Hyakusyuko	15.6	X	3.73772	70.48959	206.09352	8.78182	0.3394155	0.23710073	2.5853189	21	7 6.5	16.8
100434 Jinyilian	15.5	X	252.43942	202.71092	105.16593	17.12536	0.2029248	0.22809512	2.6529275	21	3 3.8	20.1
100435 1996 LK_{2}	16.1	X	304.11015	128.57539	182.74679	7.88827	0.1674077	0.23548339	2.5971430	21	5 3.4	19.4
100436 1996 NN_{1}	15.6	X	160.72755	5.15189	298.62454	23.06928	0.2137311	0.29438597	2.2379891	21	—	—
100437 1996 OY	15.7	X	336.88337	13.13307	249.76926	13.90338	0.0951129	0.23056692	2.6339330	21	4 23.6	19.1
100438 1996 PC_{3}	15.3	X	290.62973	98.43806	329.37638	25.95767	0.3621924	0.23554077	2.5967212	21	8 21.2	18.4
100439 1996 PU_{5}	15.2	X	172.08856	235.23114	141.30062	12.83735	0.2958595	0.22055678	2.7130374	21	3 21.9	20.1
100440 1996 PJ_{6}	16.3	X	317.88447	178.52177	191.69874	1.99447	0.2371465	0.27538733	2.3397713	21	8 12.4	18.0
100441 1996 PZ_{7}	16.9	X	333.13771	53.33022	300.22495	0.47185	0.1680837	0.31624249	2.1336470	21	9 6.4	17.9
100442 1996 QV	16.7	X	184.88263	22.75925	316.24149	1.95170	0.2008037	0.25870854	2.4392831	21	2 4.4	20.7
100443 1996 RS	15.1	X	236.96589	17.62424	349.11698	12.64426	0.2986035	0.22645988	2.6656832	21	4 15.3	20.1
100444 1996 RK_{1}	15.9	X	121.95936	12.27109	37.52135	2.12610	0.2119780	0.21616129	2.7496924	21	3 10.7	19.9
100445 1996 RA_{4}	16.5	X	310.69404	62.98777	240.42487	5.20691	0.2073849	0.30894818	2.1671000	21	4 13.7	19.0
100446 1996 RC_{4}	16.9	X	1.74592	259.01811	179.45593	29.49769	0.2267782	0.44337476	1.7032906	21	—	—
100447 1996 RB_{5}	16.4	X	180.63215	124.62452	215.14593	4.02205	0.2002803	0.29680347	2.2258201	21	1 26.1	19.7
100448 1996 RE_{5}	14.9	X	98.64890	69.05221	354.56452	12.68243	0.1597987	0.21542122	2.7559864	21	2 23.1	18.5
100449 1996 RJ_{9}	15.2	X	158.22735	9.23915	346.99774	8.16764	0.1989820	0.21683628	2.7439830	21	2 8.9	19.6
100450 1996 RN_{11}	15.6	X	168.63021	294.39782	153.05824	7.47749	0.0850530	0.22762923	2.6565461	21	6 3.4	19.7
100451 1996 RR_{15}	15.2	X	104.09722	325.30583	178.22183	12.07230	0.1113465	0.18617332	3.0375569	21	6 6.3	19.8
100452 1996 RY_{27}	17.6	X	314.41820	100.90245	242.28893	0.94007	0.3178962	0.31239552	2.1511277	21	6 1.7	19.4
100453 1996 SA_{4}	16.2	X	80.64153	357.87787	347.86240	7.57709	0.1907968	0.28743479	2.2739269	21	—	—
100454 1996 SA_{6}	16.3	X	260.43322	197.60203	184.70456	3.83627	0.1611828	0.26869557	2.3784592	21	6 10.9	19.6
100455 1996 SB_{6}	15.5	X	5.96755	6.14499	12.94485	2.77011	0.1231457	0.24026387	2.5625778	21	12 4.2	18.3
100456 Chichen Itza	15.6	X	199.41883	107.56987	228.39847	6.60877	0.2021368	0.21787694	2.7352385	21	2 14.9	20.4
100457 1996 TJ_{3}	15.2	X	288.78613	288.12911	19.38595	1.60209	0.0967390	0.18507986	3.0495091	21	4 21.5	19.4
100458 1996 TP_{3}	15.6	X	265.58986	41.21934	357.96625	23.77281	0.2393974	0.27080873	2.3660701	21	7 3.9	19.6
100459 1996 TB_{5}	14.8	X	130.42672	191.92594	202.70768	16.78071	0.1914412	0.17549531	3.1595534	21	2 27.1	19.9
100460 1996 TN_{7}	16.2	X	28.25538	204.34045	164.91784	9.43997	0.1328588	0.28103437	2.3083222	21	—	—
100461 1996 TP_{7}	14.3	X	177.07452	317.00816	3.72065	17.28129	0.1974827	0.17462251	3.1700727	21	1 24.2	19.8
100462 1996 TV_{9}	16.7	X	348.86305	246.91167	153.39938	4.46587	0.1457188	0.27864584	2.3214946	21	12 19.2	18.9
100463 1996 TU_{14}	15.2	X	213.19556	167.25838	206.51616	10.13833	0.1466479	0.22222643	2.6994311	21	4 15.3	19.6
100464 1996 TE_{15}	15.1	X	128.60737	354.20334	41.03165	5.31392	0.1658449	0.17429422	3.1740521	21	3 1.6	19.9
100465 1996 TM_{16}	15.8	X	11.20129	111.17425	226.47959	7.33064	0.2408834	0.19917927	2.9038441	21	10 23.4	18.6
100466 1996 TD_{18}	15.1	X	73.33674	191.30625	231.85868	3.27497	0.0409794	0.17043276	3.2218155	21	1 9.7	19.5
100467 1996 TD_{19}	16.5	X	129.28304	332.32753	19.25102	1.58500	0.2093321	0.29048600	2.2579756	21	—	—
100468 1996 TO_{23}	16.4	X	184.04441	310.77917	11.85531	5.78342	0.1793256	0.29477921	2.2359984	21	1 8.8	19.7
100469 1996 TO_{28}	14.5	X	338.94680	90.23182	62.04147	8.47583	0.1613758	0.20960812	2.8067085	21	—	—
100470 1996 TY_{28}	16.3	X	2.24351	33.58033	56.60605	8.42239	0.0935377	0.28564531	2.2834139	21	—	—
100471 1996 TK_{29}	16.6	X	178.88377	279.29261	225.49863	0.58815	0.1241026	0.26930209	2.3748867	21	8 28.7	20.1
100472 1996 TA_{34}	15.4	X	225.65805	297.23468	27.99632	9.67330	0.2435248	0.21923794	2.7239068	21	2 28.7	20.2
100473 1996 TO_{34}	16.7	X	245.64008	130.45031	20.06794	2.47905	0.1498747	0.27748352	2.3279729	21	11 19.0	19.5
100474 1996 TB_{35}	15.4	X	66.84468	142.44527	324.69595	9.70330	0.0717610	0.21738870	2.7393325	21	2 17.9	18.7
100475 1996 TZ_{36}	12.7	X	24.54812	164.84338	229.20926	2.27631	0.0409467	0.08072704	5.3022071	21	12 6.3	19.5
100476 1996 TK_{37}	15.4	X	249.10745	98.94097	207.90858	1.90991	0.0780900	0.17790097	3.1310056	21	3 8.9	20.0
100477 1996 TM_{39}	16.5	X	188.16955	262.86778	20.99295	5.34773	0.1731830	0.29271213	2.2465128	21	—	—
100478 1996 TW_{59}	14.5	X	112.33903	44.44864	339.50821	11.56581	0.1072803	0.21322843	2.7748487	21	1 14.3	18.4
100479 1996 TT_{60}	14.7	X	129.84229	68.71695	326.99967	6.34837	0.1011417	0.21631714	2.7483715	21	2 15.2	18.3
100480 1996 UK	16.1	X	232.66093	136.27581	209.49395	10.83881	0.4594445	0.22339023	2.6900474	21	3 16.2	21.7

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
100481 1996 UJ_1	16.5	X	320.20442	314.90986	66.12565	2.42912	0.2888291	0.27401696	2.3475657	21	9 1.4	17.7
100482 1996 UT_2	15.5	X	211.39989	313.69840	282.25483	5.65824	0.2221970	0.21154646	2.7895375	21	—	—
100483 NAOJ	15.8	X	191.89300	23.80205	30.48400	4.16077	0.2097009	0.22270412	2.6955696	21	5 15.1	20.5
100484 1996 UL_4	14.5	X	243.88908	309.81925	33.81622	11.93651	0.1383502	0.18348343	3.0671722	21	4 12.9	19.3
100485 Russelldavies	16.2	X	96.46776	137.80713	45.60716	5.91772	0.2934512	0.34301493	2.0211290	21	8 16.1	19.1
100486 1996 VH_1	15.0	X	215.25367	126.42319	233.73082	7.34502	0.0192887	0.17882633	3.1201950	21	4 7.2	19.5
100487 1996 VO_2	16.4	X	234.27992	34.69216	226.34772	4.22610	0.1527566	0.29061605	2.2573019	21	—	—
100488 1996 VS_{11}	15.1	X	218.51145	275.99829	0.79429	11.31456	0.1576850	0.21316652	2.7753860	21	—	—
100489 1996 VW_{13}	16.8	X	289.66935	221.40785	213.42674	1.70625	0.1829034	0.27385248	2.3485056	21	10 5.6	18.8
100490 1996 VB_{14}	16.0	X	156.86502	59.97627	222.18979	4.39667	0.1015903	0.20437922	2.8543785	21	—	—
100491 1996 VE_{31}	17.2	X	317.98246	228.74990	106.36201	6.59370	0.2241123	0.30935356	2.1652064	21	6 15.8	18.7
100492 1996 VC_{34}	16.4	X	187.20239	265.79623	58.55037	6.65963	0.1552106	0.29316460	2.2442007	21	1 12.3	19.7
100493 1996 VK_{37}	17.1	X	219.34012	94.51700	200.48219	2.38295	0.2675966	0.29467818	2.2365094	21	1 7.0	20.9
100494 1996 VF_{39}	15.0	X	101.59745	105.11979	316.86311	5.44147	0.1914023	0.21164611	2.7886619	21	2 26.1	18.6
100495 1996 WH	14.3	X	235.81144	218.09205	54.62873	10.92391	0.1273745	0.17123965	3.2116866	21	1 15.0	19.6
100496 1996 WJ	16.3	X	298.19474	104.69463	243.87158	1.33465	0.1861256	0.26800240	2.3825586	21	6 9.8	19.0
100497 1996 XB	15.2	X	200.70788	351.66617	4.55519	2.34185	0.1079397	0.17766502	3.1337771	21	3 18.1	20.0
100498 1996 XK	15.8	X	236.41110	287.94401	7.90694	6.42041	0.2139301	0.29583208	2.2306899	21	1 22.9	19.5
100499 1996 XP	16.4	X	314.09127	302.63837	65.82121	2.44774	0.1951934	0.27089094	2.3655914	21	8 9.2	18.3
100500 1996 XZ_{16}	16.9	X	216.71798	67.20907	57.81634	3.04125	0.1311259	0.26981093	2.3718999	21	9 13.6	20.2
100501 1996 XA_{19}	15.9	X	317.11881	25.85302	72.69895	11.68697	0.1782031	0.27866764	2.3213735	21	—	—
100502 1996 XZ_{22}	16.7	X	83.28031	141.08005	183.49859	7.21699	0.1407472	0.28064348	2.3104651	21	—	—
100503 1996 XD_{25}	16.3	X	12.94414	176.41085	64.56260	3.20550	0.1501299	0.25565029	2.4586980	21	5 26.0	18.1
100504 1997 AU_8	17.0	X	120.01022	11.23129	161.63617	1.43673	0.1309894	0.25884419	2.4384308	21	8 3.5	20.6
100505 1997 AA_9	14.6	X	3.30836	76.36642	303.68061	6.32997	0.1008972	0.19054519	2.9909149	21	11 16.3	18.4
100506 1997 AG_9	15.5	X	301.08424	120.82371	304.52631	8.44601	0.1126646	0.18845016	3.0130410	21	10 3.6	19.4
100507 1997 AG_{12}	16.9	X	315.40084	152.69921	226.19607	1.53548	0.2141305	0.26739253	2.3861800	21	8 24.2	18.6
100508 1997 AY_{14}	14.1	X	261.57794	50.81491	300.98804	20.76810	0.0310036	0.17583908	3.1554341	21	5 20.9	19.0
100509 1997 AH_{15}	15.3	X	223.54891	93.36723	110.64941	22.29602	0.2243936	0.27373629	2.3491701	21	12 22.7	18.6
100510 1997 AO_{18}	16.2	X	42.21731	47.75824	96.69676	6.09010	0.0930512	0.28966205	2.2622555	21	2 17.8	18.3
100511 1997 AY_{18}	14.9	X	62.87132	202.89746	136.15136	11.61975	0.1014985	0.19254771	2.9701416	21	12 18.2	19.3
100512 1997 AN_{20}	15.5	X	107.63123	66.79128	218.29526	1.66320	0.0873765	0.19022759	2.9942430	21	11 29.7	20.0
100513 1997 AL_{21}	15.6	X	158.14177	74.93379	32.37076	6.56601	0.0965889	0.25783825	2.4447690	21	6 15.8	19.1
100514 1997 AB_{24}	16.7	X	321.87895	115.55333	251.52595	1.07935	0.2392245	0.26843088	2.3800225	21	8 16.4	18.1
100515 1997 AM_{24}	15.2	X	65.18090	316.45245	276.85211	0.82807	0.0288834	0.18067822	3.0988378	21	7 29.0	19.4
100516 1997 BA	15.2	X	325.33944	44.92306	118.05805	13.30391	0.2117355	0.23999283	2.5645069	21	—	—
100517 1997 BD	15.2	X	176.50430	123.64622	41.29060	2.42754	0.0157880	0.18466582	3.0540657	21	9 18.9	19.5
100518 1997 BL	15.1	X	9.92764	13.83930	100.00689	7.64222	0.1962629	0.24159799	2.5531354	21	—	—
100519 Bombig	15.7	X	303.00707	333.90090	149.18091	5.03602	0.2379453	0.23640807	2.5903663	21	12 30.2	17.8
100520 1997 BU_2	15.6	X	347.53841	66.56750	117.15137	6.72425	0.1773382	0.24411957	2.5355235	21	1 9.7	18.4
100521 1997 BX_5	14.8	X	185.86250	310.70030	123.07888	6.97168	0.0589469	0.17743116	3.1365301	21	6 5.9	19.5
100522 1997 CA	15.0	X	279.60261	147.91337	303.28821	3.21109	0.1111698	0.18746183	3.0236219	21	10 8.9	19.1
100523 1997 CT_2	16.6	X	137.41368	195.18386	180.47726	2.17029	0.2093662	0.24644464	2.5195509	21	2 6.9	20.1
100524 1997 CV_5	15.9	X	336.04239	81.70981	30.87423	3.78063	0.2063974	0.23802715	2.5786064	21	—	—
100525 1997 CX_8	14.7	X	293.23202	31.27071	330.00331	21.55587	0.1189275	0.17890269	3.1193072	21	7 8.2	19.2
100526 1997 CK_9	16.0	X	332.26644	250.26266	138.50472	6.63111	0.0761348	0.26700055	2.3885149	21	10 27.9	18.6
100527 1997 CB_{10}	16.9	X	316.50449	72.52011	323.35950	0.63752	0.1877381	0.26975495	2.3722281	21	9 29.2	18.7
100528 1997 CZ_{10}	15.5	X	246.70452	273.13779	126.83241	3.82152	0.0845557	0.18055404	3.1002585	21	6 28.9	20.0
100529 1997 CA_{11}	16.3	X	35.11056	163.73788	124.89842	7.81989	0.1014202	0.26373174	2.4082105	21	9 19.5	19.0
100530 1997 CE_{12}	16.3	X	249.75071	319.23676	144.11734	7.38393	0.2025882	0.26678698	2.3897894	21	9 13.5	19.4
100531 1997 CP_{12}	16.6	X	231.90036	295.79499	121.80639	1.98479	0.1786608	0.26045545	2.4283638	21	6 25.1	20.1
100532 1997 CB_{17}	15.7	X	330.79507	100.15341	352.19927	6.52003	0.1084797	0.23474221	2.6026070	21	—	—
100533 1997 CH_{17}	16.6	X	145.73791	102.73979	271.33006	2.67908	0.2056383	0.28750490	2.2735572	21	2 6.5	19.6
100534 1997 CM_{22}	16.2	X	342.15307	220.96663	143.82722	0.39384	0.1725220	0.26886131	2.3774817	21	10 10.2	18.0
100535 1997 CR_{22}	16.1	X	47.08269	6.30035	311.57840	3.83086	0.1881820	0.26948426	2.3738163	21	11 27.2	19.2
100536 1997 CD_{28}	15.5	X	323.28546	103.62397	348.80796	3.66637	0.1606046	0.23395715	2.6084259	21	—	—
100537 1997 EL_4	15.1	X	241.53327	333.10207	46.70679	0.78798	0.1996994	0.17257115	3.1951451	21	5 18.3	20.1
100538 1997 ET_{10}	15.4	X	272.66521	43.03809	7.24404	9.62388	0.1157867	0.17871429	3.1214990	21	8 12.1	19.9
100539 1997 EN_{13}	15.3	X	351.56087	30.80586	320.09129	5.97578	0.1275701	0.18317525	3.0706114	21	9 19.4	19.0
100540 1997 EK_{20}	16.0	X	228.04074	69.36469	254.29736	5.57289	0.1655055	0.28681400	2.2772069	21	2 16.4	19.6
100541 1997 EG_{25}	15.9	X	42.08551	293.91452	47.39901	7.25653	0.1465618	0.26808852	2.3820484	21	12 15.6	18.9
100542 1997 ES_{25}	15.2	X	200.48352	105.80508	29.09055	14.23166	0.1389229	0.22205987	2.7007807	21	9 10.4	19.6
100543 1997 ES_{26}	15.6	X	148.36959	114.58032	26.01030	0.99886	0.1180686	0.17458055	3.1705807	21	7 20.4	20.5
100544 1997 ET_{28}	16.7	X	218.08603	249.73456	352.88107	2.00416	0.1467363	0.27334212	2.3514280	21	—	—
100545 1997 ED_{30}	15.0	X	11.34862	1.08975	358.65897	14.12665	0.2577785	0.22438240	2.6821116	21	11 29.5	18.1
100546 1997 EU_{32}	15.9	X	30.81317	141.57126	59.12660	2.63812	0.1039287	0.29074386	2.2566403	21	4 23.4	17.9
100547 1997 EQ_{35}	16.0	X	203.28093	29.03627	137.28930	3.41629	0.1163029	0.26775973	2.3839979	21	10 24.4	19.3
100548 1997 EA_{36}	15.1	X	26.88269	28.80909	119.32320	2.26594	0.0908826	0.24598651	2.5226782	21	2 5.2	17.6
100549 1997 EK_{38}	14.8	X	246.72083	296.07059	139.90775	1.64914	0.1680943	0.18296084	3.0730098	21	8 3.5	19.6
100550 1997 EM_{41}	15.0	X	26.94291	200.07956	323.04170	11.06939	0.1091359	0.24659840	2.5185034	21	2 23.8	17.7
100551 1997 EM_{42}	14.5	X	8.97502	2.16936	323.75457	9.27861	0.0269545	0.18207588	3.0829592	21	9 8.9	18.7
100552 1997 FK_2	15.1	X	129.41667	306.92866	150.29835	25.23592	0.2820442	0.21458161	2.7631707	21	5 27.4	20.3
100553 Dariofo	16.6	X	54.77065	165.30191	33.08138	9.80416	0.1629643	0.41344494	1.7845317	21	6 4.8	17.2
100554 1997 GJ	15.7	X	348.46686	166.59304	48.18926	1.97396	0.1020536	0.24495870	2.5297298	21	3 6.7	18.7
100555 1997 GY_1	16.3	X	127.62450	320.05700	191.85462	3.57999	0.1391341	0.25523767	2.4613471	21	7 14.9	20.0
100556 1997 GS_2	15.7	X	147.70048	117.27033	12.72026	3.51084	0.1324190	0.21480045	2.7612936	21	7 7.9	20.0
100557 1997 GW_3	16.1	X	194.42166	67.15797	186.22336	3.27680	0.2138713	0.26989470	2.3714091	21	—	—
100558 1997 GE_9	16.3	X	161.35236	12.97873	289.30696	1.81645	0.1622609	0.27205182	2.3588570	21	—	—
100559 1997 GO_9	15.7	X	287.47777	286.27104	335.10123	3.63084	0.0936451	0.24215996	2.5491838	21	2 13.8	19.3
100560 1997 GA_{12}	16.0	X	227.36245	46.11746	202.98870	4.33982	0.1572759	0.23357895	2.6112407	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
100561 1997 GN_{18}	15.8	X	214.73209	93.39095	58.26553	3.02472	0.0192981	0.22275624	2.6951491	21	10 23.1	19.3
100562 1997 GW_{19}	16.4	X	281.00448	339.48874	200.84178	1.98165	0.1268405	0.27442542	2.3452357	21	—	—
100563 1997 GW_{26}	16.7	X	199.60177	94.16159	166.46446	1.21571	0.0943433	0.27351871	2.3504157	21	—	—
100564 1997 GU_{27}	14.7	X	300.79943	19.42302	355.63462	15.41037	0.0498204	0.17843499	3.1247555	21	8 15.8	19.1
100565 1997 GC_{29}	16.4	X	273.20518	287.01710	339.43637	0.35406	0.1692622	0.24103910	2.5570804	21	1 27.5	20.1
100566 1997 GF_{33}	16.0	X	269.99788	314.01951	213.07399	3.12019	0.1603150	0.23133772	2.6280790	21	—	—
100567 1997 GM_{36}	16.4	X	167.38621	324.81545	223.08445	3.32107	0.1589522	0.26085930	2.4258568	21	10 10.1	20.3
100568 1997 GV_{37}	16.6	X	265.67215	170.29327	28.48091	2.50076	0.1694620	0.27405426	2.3473526	21	—	—
100569 1997 HR	15.7	X	256.02112	265.61500	41.41880	4.73273	0.0578926	0.24240157	2.5474897	21	3 13.0	19.2
100570 1997 HU_{1}	16.0	X	209.49863	121.25528	222.06301	0.38558	0.1259311	0.24282979	2.5444938	21	3 3.4	20.0
100571 1997 HH_{2}	17.0	X	138.61447	176.33218	131.44850	3.01530	0.2209274	0.26649220	2.3915514	21	—	—
100572 1997 HJ_{2}	15.8	X	138.89563	153.34913	95.09668	4.61662	0.1041966	0.22151267	2.7052267	21	11 23.5	19.9
100573 1997 HR_{2}	16.8	X	133.33557	172.26763	130.44877	3.06767	0.2341710	0.26529985	2.3987117	21	—	—
100574 1997 HS_{2}	16.2	X	148.29371	225.04265	125.57792	3.35582	0.2034597	0.27272189	2.3549917	21	1 13.3	19.5
100575 1997 HD_{3}	17.5	X	293.73582	205.09547	29.06265	1.70451	0.0703335	0.28090835	2.3090125	21	1 12.8	20.5
100576 1997 HJ_{10}	16.1	X	176.73005	11.83744	53.02612	5.28247	0.0961138	0.28837164	2.2689992	21	5 9.4	19.1
100577 1997 HM_{10}	16.5	X	68.68151	85.07501	204.28869	1.91374	0.2208732	0.25754411	2.4466301	21	11 18.3	20.1
100578 1997 HY_{10}	15.5	X	318.67902	91.25937	36.03371	9.61053	0.2598400	0.23284704	2.6167098	21	—	—
100579 1997 HS_{11}	15.7	X	217.01369	275.15377	37.31773	13.50297	0.1927306	0.23601064	2.5932735	21	2 7.5	20.3
100580 1997 HM_{16}	16.8	X	188.07963	24.74095	210.91972	0.70645	0.1438750	0.26877889	2.3779677	21	12 31.3	20.3
100581 1997 HA_{17}	16.6	X	189.48811	56.95153	174.59967	4.30935	0.1273740	0.22559898	2.6724605	21	12 21.6	20.8
100582 1997 HC_{17}	16.1	X	279.57808	91.96319	175.91188	4.02482	0.1939391	0.23851343	2.5751004	21	2 1.5	20.1
100583 1997 JY_{9}	16.4	X	266.77495	351.49398	166.14184	9.72254	0.1460489	0.26869885	2.3784399	21	12 30.3	19.1
100584 1997 JJ_{14}	16.3	X	149.20989	129.94142	151.14095	2.34926	0.1889583	0.26612630	2.3937430	21	—	—
100585 1997 LN_{9}	15.7	X	255.80443	267.04704	73.56457	11.56789	0.1740804	0.24312226	2.5424528	21	4 16.6	19.7
100586 1997 LP_{15}	16.1	X	64.33566	172.06004	124.38374	3.47589	0.1721923	0.25713460	2.4492270	21	11 17.4	19.5
100587 1997 MH	15.9	X	91.30677	139.71487	212.95480	5.62635	0.1324073	0.26668065	2.3904246	21	—	—
100588 1997 MV_{3}	15.1	X	217.67714	237.75259	108.84641	5.54584	0.2407389	0.23491611	2.6013224	21	3 16.8	19.7
100589 1997 MV_{8}	15.7	X	355.21640	356.55660	296.55114	12.60262	0.1678935	0.24491569	2.5300259	21	7 11.3	17.9
100590 1997 NP_{1}	14.6	X	251.37568	354.14897	131.58760	36.59178	0.1295715	0.21351976	2.7723241	21	10 31.9	19.3
100591 1997 NW_{2}	15.2	X	58.94556	169.66605	287.77169	7.55805	0.1028357	0.18727913	3.0255881	21	2 2.2	19.0
100592 1997 NN_{5}	15.6	X	62.62896	244.68798	99.13365	8.14904	0.2490040	0.26091021	2.4255413	21	—	—
100593 1997 OH_{1}	16.0	X	11.69154	311.26714	64.47602	1.77198	0.2445319	0.25263611	2.4782157	21	12 31.8	18.7
100594 1997 OH_{2}	16.4	X	24.98846	187.35484	185.54113	2.18657	0.1929542	0.25456937	2.4656530	21	—	—
100595 1997 PA_{2}	15.7	X	281.44201	272.09565	36.43999	2.28366	0.0954800	0.19585788	2.9365812	21	4 13.3	19.9
100596 Perrett	15.0	X	80.25356	115.79163	337.53202	10.37261	0.1872807	0.18720579	3.0263782	21	3 11.7	18.9
100597 1997 PY_{4}	16.3	X	335.32283	36.65339	287.19753	13.00989	0.1935568	0.24414436	2.5353519	21	7 12.2	18.5
100598 1997 QO_{1}	16.0	X	272.76103	117.87760	336.72756	18.81746	0.0627244	0.37475650	1.9053288	21	11 3.2	18.2
100599 1997 QV_{4}	17.1	X	68.44254	306.49170	262.60322	1.62966	0.0869690	0.28187420	2.3037349	21	7 11.2	19.7
100600 1997 RX_{1}	14.9	X	354.16998	44.86128	30.35754	4.69236	0.1483551	0.17032995	3.2231118	21	—	—
100601 1997 RF_{4}	14.7	X	40.43465	294.31018	26.59199	8.06752	0.1775701	0.20660828	2.8338111	21	11 9.1	18.4
100602 1997 RD_{9}	15.5	X	357.86062	131.45854	316.22036	3.36250	0.2252156	0.17468930	3.1692647	21	—	—
100603 1997 RN_{9}	15.7	X	314.93849	2.55281	32.82359	13.12146	0.1758915	0.24604339	2.5222894	21	9 27.8	18.1
100604 Lundy	15.8	X	245.08780	14.32408	17.17691	4.37726	0.1186314	0.23777230	2.5804486	21	6 10.6	19.6
100605 1997 SR_{1}	16.1	X	349.86660	163.74089	178.13766	3.74783	0.1759042	0.24538072	2.5268285	21	9 15.9	18.1
100606 1997 SU_{2}	15.1	X	139.56731	96.23438	255.22344	10.90959	0.1946287	0.22122199	2.7075960	21	1 11.7	19.2
100607 1997 SB_{4}	16.4	X	164.11176	168.72395	164.68396	1.36160	0.3074894	0.22307861	2.6925520	21	1 23.1	21.1
100608 1997 SQ_{6}	16.3	X	239.29899	259.64162	350.64827	0.87877	0.1405882	0.22513575	2.6761251	21	—	—
100609 1997 ST_{6}	15.3	X	138.38925	77.04835	351.25843	9.31143	0.0781313	0.19007135	2.9958836	21	4 4.5	19.8
100610 1997 ST_{18}	16.0	X	173.05986	209.39729	22.29045	0.65326	0.0808517	0.21425187	2.7660050	21	12 6.2	20.1
100611 1997 SR_{19}	15.8	X	247.97811	323.05555	335.91282	2.37161	0.1654701	0.18874349	3.0099184	21	2 19.1	20.6
100612 1997 SL_{25}	14.9	X	138.36189	175.96658	178.68935	13.37417	0.2004532	0.22211859	2.7003047	21	1 14.9	19.2
100613 1997 SM_{31}	16.7	X	259.08248	92.45574	356.41629	8.34446	0.2268132	0.24449041	2.5329590	21	8 31.3	20.2
100614 1997 SX_{34}	15.1	X	71.22249	167.14987	188.74104	12.14822	0.3430824	0.21530316	2.7569937	21	—	—
100615 1997 TX_{1}	16.6	X	67.86359	60.08826	343.61034	2.75685	0.2053394	0.30044338	2.2078063	21	—	—
100616 1997 TN_{2}	16.0	X	311.71618	330.76293	10.47410	14.01736	0.2037701	0.24088182	2.5581933	21	6 18.1	19.2
100617 1997 TQ_{2}	14.8	X	249.34588	238.37103	358.99694	5.07872	0.1346159	0.17947042	3.1127253	21	—	—
100618 1997 TJ_{11}	14.6	X	107.55972	315.17985	353.40896	9.56445	0.2303129	0.21466068	2.7624921	21	—	—
100619 1997 TK_{14}	12.5	X	247.26379	305.19287	187.52946	18.04547	0.0806294	0.08450294	5.1430588	21	10 14.2	19.4
100620 1997 TM_{20}	15.3	X	359.76921	125.22221	29.50022	15.64564	0.0442059	0.17999286	3.1066992	21	1 27.9	19.8
100621 1997 TX_{23}	15.1	X	162.42750	129.91269	237.47402	0.64091	0.1341075	0.18309635	3.0714934	21	2 23.2	20.0
100622 1997 TK_{26}	16.0	X	287.44612	169.09998	216.99846	11.43944	0.2997659	0.24125888	2.5555272	21	6 28.1	19.6
100623 1997 TP_{27}	15.4	X	36.18919	299.59970	171.53067	5.40552	0.1371071	0.18215540	3.0820619	21	1 17.9	19.0
100624 1997 TR_{28}	12.6	X	334.80476	215.02290	187.21613	4.37848	0.1252651	0.08285301	5.2111136	21	10 14.4	18.8
100625 1997 UZ	15.2	X	55.59776	95.03306	267.80922	2.65669	0.1079956	0.21255189	2.7807337	21	—	—
100626 1997 UE_{2}	14.9	X	204.32126	51.95363	33.28162	6.39941	0.2638000	0.23479295	2.6022320	21	7 1.8	19.6
100627 1997 UD_{3}	15.3	X	87.47662	171.70789	213.70081	8.00146	0.1582206	0.21882351	2.7273449	21	—	—
100628 1997 UX_{3}	15.8	X	159.83858	147.48893	227.67708	7.94641	0.3635002	0.22514386	2.6760608	21	3 9.1	20.8
100629 1997 UL_{5}	15.9	X	203.80915	269.37875	29.19561	9.49676	0.1437059	0.26414586	2.4056928	21	—	—
100630 1997 UQ_{7}	16.2	X	344.10993	349.18644	35.69565	6.92951	0.1216348	0.28838265	2.2689415	21	11 15.5	18.1
100631 1997 UH_{8}	15.6	X	333.67416	82.44594	236.94754	1.72554	0.2276780	0.19956200	2.9001301	21	6 27.1	18.3
100632 1997 UZ_{12}	15.8	X	190.44057	236.73413	166.51251	0.40858	0.1281601	0.18958925	3.0009603	21	5 2.6	20.6
100633 1997 UX_{13}	15.0	X	66.24449	355.51837	60.04577	10.84437	0.1374896	0.17555161	3.1588779	21	—	—
100634 1997 UE_{24}	17.3	X	244.81328	4.42198	324.13087	2.71892	0.1899386	0.31354282	2.1458769	21	3 7.9	20.4
100635 1997 UQ_{24}	16.0	X	247.45164	64.06334	315.52426	1.82724	0.1421680	0.23813443	2.5778319	21	5 26.0	19.7
100636 1997 UY_{26}	15.3	X	40.65747	42.28031	38.60758	14.27618	0.2479591	0.25859313	2.4400088	21	—	—
100637 1997 VF_{2}	15.3	X	250.85840	8.56839	59.24897	14.35879	0.1492686	0.23861646	2.5743590	21	8 6.7	19.2
100638 1997 VS_{2}	14.7	X	147.87771	82.15682	276.56611	7.80581	0.1834541	0.18364673	3.0653536	21	2 1.9	19.6
100639 1997 VV_{3}	15.1	X	276.10855	333.85930	61.62321	15.05999	0.1518247	0.23833511	2.5763846	21	7 23.3	18.7
100640 1997 VY_{3}	15.2	X	157.63816	97.32783	241.92061	7.96265	0.2585167	0.26307052	2.4122441	21	1 14.2	19.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
100641 1997 VO_4	15.7	X	245.05926	332.95830	35.19790	29.94000	0.1605359	0.23444274	2.6048228	21	5 3.5	19.9
100642 1997 VV_4	15.4	X	262.60991	177.26230	205.22970	2.08799	0.2261451	0.23735622	2.5834634	21	6 6.4	19.1
100643 1997 VZ_5	15.6	X	181.62372	17.93397	71.99923	6.45105	0.2215968	0.23110269	2.6298605	21	6 19.9	20.1
100644 1997 VV_6	15.3	X	218.56637	213.06089	216.69509	7.09533	0.1701042	0.23515711	2.5995448	21	6 27.9	19.5
100645 1997 VP_8	15.6	X	266.03804	353.59476	18.13463	2.67066	0.2394269	0.23687333	2.5869733	21	5 24.7	19.6
100646 1997 WR	15.4	X	210.64040	14.41491	50.29832	3.79212	0.1508634	0.23313934	2.6145222	21	6 15.3	19.4
100647 1997 WS_2	16.5	X	118.71147	297.25273	73.66236	2.87383	0.1672986	0.30062316	2.2069259	21	—	—
100648 1997 WZ_2	16.4	X	255.08460	1.38541	72.89391	4.60537	0.1549910	0.27995310	2.3142620	21	8 19.3	19.3
100649 1997 WF_4	16.6	X	143.12977	217.97619	221.58821	2.13020	0.0827130	0.22881278	2.6473774	21	4 23.4	20.4
100650 1997 WN_4	15.8	X	144.70199	359.53947	52.72505	2.92304	0.1500292	0.22604253	2.6689633	21	3 29.7	19.7
100651 1997 WU_{10}	16.3	X	245.09232	302.35889	35.44258	6.86911	0.0638588	0.23028756	2.6360627	21	4 8.8	19.9
100652 1997 WN_{11}	15.8	X	269.50169	359.89995	46.73274	3.44988	0.1392908	0.23964264	2.5670046	21	7 30.4	19.2
100653 1997 WD_{12}	16.1	X	236.18447	198.56475	207.20721	3.78292	0.1822168	0.23535819	2.5980640	21	6 14.2	20.3
100654 1997 WM_{12}	16.0	X	335.66742	67.95309	248.96142	2.64972	0.1226823	0.23903847	2.5713283	21	7 9.2	18.6
100655 1997 WJ_{14}	15.6	X	152.52443	300.09641	126.42336	2.06577	0.0846834	0.18608244	3.0385458	21	4 22.2	20.1
100656 1997 WD_{17}	15.5	X	234.57956	247.49108	249.12401	6.20111	0.1797531	0.24503655	2.5291939	21	10 6.7	19.2
100657 1997 WT_{18}	15.8	X	223.03548	26.09146	67.71333	9.08004	0.1284394	0.23758821	2.5817813	21	8 10.1	19.8
100658 1997 WH_{20}	15.7	X	250.12699	355.41255	204.93418	3.49638	0.1527516	0.21163094	2.7887951	21	—	—
100659 1997 WM_{20}	16.5	X	357.89750	119.67006	108.69629	2.20469	0.0382025	0.22846121	2.6500927	21	4 17.8	19.7
100660 1997 WL_{21}	15.2	X	211.31071	259.34314	153.45093	2.53512	0.2273579	0.23202956	2.6228523	21	5 29.5	19.6
100661 1997 WZ_{26}	16.2	X	190.18826	345.97107	85.56456	7.21947	0.2258838	0.22914359	2.6448289	21	6 4.6	20.8
100662 1997 WM_{28}	15.8	X	348.60808	317.55061	150.55486	2.40380	0.1839802	0.21149764	2.7899668	21	—	—
100663 1997 WN_{30}	14.5	X	39.94491	304.45802	76.10973	5.67344	0.1040752	0.16867743	3.2441287	21	—	—
100664 1997 WZ_{35}	15.1	X	186.53311	5.67289	39.83187	6.48224	0.1812916	0.22899346	2.6459847	21	4 29.9	19.4
100665 1997 WT_{36}	15.5	X	221.87965	355.79153	85.27690	7.65402	0.2474706	0.23554977	2.5966550	21	7 11.4	19.9
100666 1997 WO_{37}	15.4	X	117.78278	256.21507	104.79069	3.18233	0.1976751	0.25944546	2.4346619	21	—	—
100667 1997 WH_{40}	16.1	X	71.23784	230.25734	180.66112	0.95425	0.1710279	0.25753972	2.4466578	21	—	—
100668 1997 WH_{44}	16.4	X	200.85854	34.48814	83.90218	5.15201	0.1792951	0.27734245	2.3287622	21	8 15.9	20.0
100669 1997 WK_{50}	15.9	X	262.62316	146.86415	229.46833	3.06356	0.3024132	0.23723502	2.5843432	21	5 21.2	20.1
100670 1997 WV_{50}	15.5	X	160.30079	21.16338	7.17861	3.26704	0.0923887	0.22405957	2.6846874	21	3 10.7	19.3
100671 1997 WN_{57}	15.0	X	58.47410	161.10696	191.07966	10.49164	0.3339880	0.21217757	2.7840033	21	—	—
100672 1997 WF_{58}	16.2	X	321.22649	281.19340	74.18288	5.05827	0.2509160	0.24223323	2.5486698	21	7 23.4	18.5
100673 1997 XY	15.7	X	275.45134	95.36682	324.26776	3.51083	0.2271591	0.23922666	2.5699796	21	8 10.5	19.0
100674 1997 XX_1	14.4	X	348.11086	282.40996	114.64177	6.91293	0.1647806	0.24622756	2.5210315	21	12 6.2	16.8
100675 Chuyanakahara	15.0	X	226.67471	186.92891	243.33864	4.57137	0.2566540	0.23304113	2.6152567	21	6 30.6	19.4
100676 1997 XO_5	16.2	X	294.02184	255.09964	102.92360	5.35828	0.2877732	0.23909950	2.5708907	21	6 2.1	19.6
100677 1997 XO_6	15.8	X	138.12176	229.75411	197.87766	1.19405	0.1038785	0.22627106	2.6671659	21	4 4.9	19.7
100678 1997 XV_9	15.7	X	270.76353	293.19447	51.11341	12.35795	0.2492115	0.23426136	2.6061672	21	4 26.0	19.7
100679 1997 XV_{10}	16.3	X	312.94876	155.87913	251.36475	5.41977	0.1975623	0.28711509	2.2756146	21	10 10.2	18.0
100680 1997 XW_{10}	15.4	X	244.98941	158.07360	242.30113	2.72298	0.1786427	0.23563268	2.5960459	21	6 16.3	19.2
100681 1997 YD_1	15.4	X	259.45959	251.70081	287.27625	22.71019	0.2922871	0.28689949	2.2767545	21	12 31.1	17.6
100682 1997 YE_1	14.6	X	215.62271	23.64121	331.75357	14.05846	0.0752876	0.22429961	2.6827716	21	3 22.4	18.8
100683 1997 YW_1	14.6	X	121.96434	55.05770	18.87322	9.64970	0.3151176	0.18409282	3.0603997	21	4 20.5	19.7
100684 1997 YX_1	15.1	X	272.64243	2.46819	111.27685	3.85661	0.2306011	0.24313631	2.5423548	21	10 21.9	18.1
100685 1997 YH_2	16.7	X	113.57311	29.56422	99.71799	5.33953	0.1174774	0.30898716	2.1669178	21	5 24.9	19.3
100686 1997 YA_3	15.7	X	172.47038	313.74921	99.89052	12.63375	0.1694011	0.22536257	2.6743291	21	5 2.5	20.2
100687 1997 YF_4	15.3	X	175.92185	299.31406	123.41106	3.11985	0.0738889	0.22714331	2.6603335	21	5 9.7	19.1
100688 1997 YU_5	15.7	X	28.60351	174.33564	280.82615	6.96552	0.2719131	0.21196437	2.7858697	21	—	—
100689 1997 YW_6	14.9	X	252.77404	283.18479	107.53980	12.52166	0.3182324	0.23384671	2.6092471	21	5 31.7	19.4
100690 1997 YY_6	16.9	X	247.85711	335.12534	72.52303	8.23218	0.3185982	0.23671383	2.5881352	21	6 15.1	21.1
100691 1997 YF_7	16.8	X	160.19653	347.91722	108.14738	4.51943	0.2181122	0.27132489	2.3630684	21	6 9.5	20.6
100692 1997 YJ_7	15.0	X	283.77756	313.29275	93.59818	12.88579	0.2180929	0.23765432	2.5813026	21	8 8.4	18.3
100693 1997 YP_9	14.8	X	225.35781	132.07700	277.10752	11.77488	0.1765533	0.23066673	2.6331731	21	6 8.4	19.0
100694 1997 YH_{11}	15.5	X	203.65165	82.65898	359.40391	3.57735	0.2159400	0.23547447	2.5972086	21	6 28.8	19.9
100695 1997 YK_{11}	16.5	X	318.81342	183.91743	319.36293	7.38839	0.0491055	0.29356998	2.2421343	21	—	—
100696 1997 YJ_{14}	15.3	X	256.69318	150.25638	308.88488	3.04543	0.2354725	0.23782905	2.5800381	21	9 6.6	18.9
100697 1997 YB_{15}	16.7	X	266.40849	349.49412	97.08525	3.33754	0.1059595	0.28035484	2.3120507	21	9 30.3	19.3
100698 1997 YK_{15}	15.4	X	302.56645	236.27235	89.50545	1.88945	0.2120179	0.18862727	3.0111547	21	5 15.9	19.5
100699 1997 YR_{17}	15.3	X	123.08118	346.71506	67.97686	2.31739	0.1789064	0.17740768	3.1368068	21	3 18.8	19.9
100700 1997 YX_{17}	16.6	X	281.78567	110.67587	308.59605	6.42603	0.0710017	0.27867393	2.3213386	21	9 14.5	19.2
100701 1998 AC_1	15.6	X	26.32725	141.06807	332.02591	6.95496	0.1181243	0.29594284	2.2301333	21	—	—
100702 1998 AK_1	16.5	X	328.96521	255.23781	114.94800	3.07466	0.2530717	0.28176762	2.3043158	21	9 16.4	17.4
100703 1998 AL_3	15.4	X	22.16565	328.14901	114.60567	9.01777	0.2060236	0.20963014	2.8065120	21	—	—
100704 1998 BG	15.0	X	129.71881	121.92460	352.52436	12.45568	0.1238996	0.22749364	2.6576016	21	5 24.6	19.2
100705 1998 BO_5	15.9	X	92.13904	74.82746	303.14583	2.64183	0.1057306	0.21056593	2.7981908	21	—	—
100706 1998 BQ_7	14.8	X	261.12518	254.52667	135.30112	11.94355	0.2731442	0.23298137	2.6157039	21	6 10.7	19.1
100707 1998 BW_{14}	15.4	X	87.93186	335.30758	70.78808	4.52486	0.0922167	0.21081732	2.7959658	21	1 5.2	19.0
100708 1998 BL_{17}	15.2	X	185.02995	78.32279	331.58778	7.87842	0.0881874	0.22215303	2.7000256	21	4 29.4	19.4
100709 1998 BP_{17}	16.9	X	161.51659	73.36292	125.13252	3.98767	0.1729282	0.27621622	2.3350881	21	10 21.8	20.7
100710 1998 BU_{17}	16.6	X	310.01834	230.33350	34.37060	1.60920	0.2087863	0.30001843	2.2098905	21	2 20.4	19.3
100711 1998 BD_{19}	16.5	X	252.06190	96.05025	11.13536	5.44454	0.2145626	0.28009413	2.3134851	21	9 20.4	19.5
100712 1998 BW_{19}	16.8	X	101.78454	22.93976	296.23698	4.26565	0.1442828	0.28833186	2.2692079	21	—	—
100713 1998 BG_{20}	15.4	X	221.42636	210.29721	295.18827	3.86387	0.0484680	0.19690202	2.9261905	21	10 13.9	19.6
100714 1998 BM_{20}	14.4	X	226.43954	194.68561	118.31837	13.96505	0.1060741	0.17526602	3.1623085	21	2 22.9	19.4
100715 1998 BK_{21}	15.9	X	88.15039	359.04246	15.20680	0.41409	0.0988026	0.20941882	2.8083997	21	—	—
100716 1998 BF_{23}	15.4	X	85.17889	145.90855	331.10880	6.19460	0.2653986	0.21882534	2.7273297	21	4 25.6	19.1
100717 1998 BL_{23}	16.0	X	0.37500	76.65907	333.88932	9.69437	0.1100521	0.28518096	2.2858920	21	—	—
100718 1998 BR_{24}	15.1	X	199.81270	343.19964	145.87183	3.79931	0.2233800	0.23268452	2.6179281	21	8 22.9	19.6
100719 1998 BU_{26}	16.6	X	320.20582	223.35749	307.97213	7.10239	0.0813394	0.29535839	2.2330743	21	—	—
100720 1998 BA_{28}	14.3	X	57.94719	358.43326	301.71789	7.26242	0.0954291	0.15453081	3.4392150	21	10 15.1	19.2

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
100721 1998 BD_{29}	16.5	X	10.86070	91.29647	321.50521	4.40403	0.1483954	0.28839121	2.2688966	21	—	—
100722 1998 BB_{30}	16.1	X	86.90075	16.70482	129.26971	3.00301	0.0999644	0.30613747	2.1803442	21	5 7.7	18.3
100723 1998 BM_{35}	16.6	X	202.98206	301.05589	134.85961	6.82448	0.1902150	0.27057395	2.3674386	21	6 20.9	20.5
100724 1998 BM_{38}	15.6	X	275.62627	114.74214	109.58201	1.60718	0.0112125	0.21231079	2.7828385	21	—	—
100725 1998 BO_{43}	14.9	X	135.53312	121.55815	331.63610	12.07631	0.1814180	0.22210474	2.7004170	21	5 8.2	19.3
100726 1998 BY_{43}	15.0	X	43.61377	16.02272	93.15911	10.46334	0.1826044	0.21402316	2.7679752	21	1 22.8	17.7
100727 1998 BF_{45}	14.4	X	200.08681	272.26285	136.13726	11.40627	0.1531657	0.18250973	3.0780714	21	5 21.0	19.6
100728 1998 CK	15.8	X	57.56233	134.80973	312.69323	5.56353	0.0297750	0.21406823	2.7675867	21	1 9.2	19.3
100729 1998 CX	15.5	X	203.27312	107.53038	253.92667	5.00457	0.0322232	0.21809048	2.7334528	21	3 20.1	19.4
100730 1998 CE_{2}	15.7	X	236.76432	324.03546	293.72295	4.75478	0.2475977	0.29159602	2.2522417	21	—	—
100731 Ara Pacis	14.6	X	96.72573	254.62913	160.60702	12.91819	0.1588232	0.21318353	2.7752383	21	2 5.7	18.1
100732 Blankavalois	15.2	X	168.87590	86.93492	36.89231	14.05102	0.1135745	0.22903439	2.6456695	21	7 24.4	19.6
100733 Annafalcká	16.8	X	264.47172	356.22421	131.01665	6.16278	0.1040924	0.28325630	2.2962350	21	11 25.5	19.3
100734 Annasvídnická	15.6	X	142.19274	1.64286	71.24691	2.30746	0.1667148	0.18041263	3.1018783	21	4 26.2	20.4
100735 Alpomořanská	16.7	X	119.57178	275.67145	259.88667	3.98128	0.1257435	0.26946784	2.3739128	21	8 5.4	20.0
100736 1998 DD_{7}	14.9	X	295.53219	143.62278	159.24061	14.46684	0.0327428	0.18028601	3.1033305	21	5 8.2	19.5
100737 1998 DR_{9}	16.6	X	357.08794	7.45334	7.18810	7.04959	0.1367494	0.28116901	2.3075852	21	11 23.2	18.8
100738 1998 DB_{12}	16.0	X	134.08403	186.65595	137.06814	4.17235	0.2320989	0.28490575	2.2873638	21	—	—
100739 1998 DA_{14}	16.3	X	251.72112	335.97293	180.72811	2.03209	0.1707088	0.28037357	2.3119477	21	12 4.5	18.7
100740 1998 DP_{22}	15.6	X	180.61704	83.77437	317.53176	10.50629	0.2070447	0.22343835	2.6896612	21	4 15.4	20.4
100741 1998 DS_{23}	15.7	X	146.47067	78.78982	8.19243	8.09936	0.2864505	0.22407091	2.6845968	21	5 20.3	20.5
100742 1998 DW_{25}	17.3	X	71.47398	186.76152	49.78428	1.94919	0.1484869	0.26900752	2.3766201	21	9 4.9	20.1
100743 1998 DC_{30}	16.2	X	286.99976	93.16756	185.33052	6.96585	0.2584205	0.30036669	2.2081820	21	2 6.0	19.6
100744 1998 DU_{36}	15.9	X	31.28868	142.63876	313.01130	3.68810	0.1077471	0.29230635	2.2485914	21	—	—
100745 1998 ET_{3}	15.7	X	222.72896	133.85339	114.90803	7.22927	0.1878273	0.28582164	2.2824747	21	—	—
100746 1998 ED_{4}	16.5	X	194.95483	90.28657	131.93382	2.49920	0.1695258	0.28077395	2.3097493	21	12 21.2	19.9
100747 1998 EO_{4}	17.0	X	68.37635	113.85677	138.85696	5.04694	0.1329307	0.31245539	2.1508529	21	9 26.6	19.4
100748 1998 EW_{4}	16.6	X	106.58461	115.29102	149.67789	5.23547	0.2189104	0.27761445	2.3272409	21	11 26.1	20.4
100749 1998 EN_{5}	16.3	X	240.02168	68.80926	108.01903	6.65538	0.0595819	0.28012185	2.3133325	21	—	—
100750 1998 EX_{8}	14.8	X	144.55858	99.92182	37.80421	11.39483	0.2140753	0.22473578	2.6792993	21	7 21.4	19.5
100751 1998 EQ_{13}	15.7	X	73.67957	59.59415	75.58242	3.41624	0.0460473	0.30054743	2.2072967	21	3 23.7	18.0
100752 1998 EF_{20}	16.1	X	140.17497	349.19438	154.41275	6.47441	0.0896667	0.26829054	2.3808524	21	7 13.9	19.5
100753 1998 FN_{1}	15.1	X	167.28185	358.04070	134.96220	5.33365	0.1771691	0.22665798	2.6641298	21	7 31.4	19.5
100754 1998 FP_{2}	16.5	X	155.89932	104.78321	184.56044	23.62981	0.0851104	0.41027435	1.7937138	21	—	—
100755 1998 FO_{3}	15.5	X	201.44955	255.44163	152.66470	4.20090	0.0765919	0.22289932	2.6939956	21	5 19.7	19.5
100756 1998 FM_{5}	16.2	X	306.12623	312.07936	176.52135	11.57242	0.5542561	0.28899311	2.2657451	21	—	—
100757 1998 FA_{7}	17.3	X	296.73504	30.71532	90.43375	0.85428	0.1500632	0.28493047	2.2872315	21	—	—
100758 1998 FH_{7}	15.9	X	197.74224	256.83558	359.61983	5.63721	0.1320398	0.28600844	2.2814808	21	—	—
100759 1998 FG_{9}	14.7	X	48.97397	166.81434	36.30625	14.20409	0.1116541	0.17498489	3.1656946	21	6 5.6	18.9
100760 1998 FN_{10}	16.7	X	120.94325	215.24466	300.90259	1.87042	0.1309894	0.26551803	2.3973974	21	7 13.3	20.1
100761 1998 FT_{10}	16.2	X	120.72125	289.33042	355.77790	6.95834	0.1983913	0.27718072	2.3296680	21	12 30.8	20.2
100762 1998 FX_{14}	14.9	X	132.79211	188.47989	347.02783	5.64328	0.0788925	0.18308831	3.0715833	21	8 15.0	19.4
100763 1998 FK_{18}	15.8	X	164.60884	99.32884	336.82566	3.70949	0.0533196	0.30571056	2.1823735	21	5 4.7	18.6
100764 1998 FR_{23}	15.9	X	255.52408	106.45031	117.79467	2.91199	0.1000237	0.28917365	2.2648020	21	—	—
100765 1998 FZ_{23}	16.1	X	358.94371	118.76750	2.81126	4.14155	0.1056780	0.29132527	2.2536369	21	—	—
100766 1998 FX_{24}	15.6	X	258.36147	120.81100	328.39770	6.48614	0.3837898	0.23628351	2.5912766	21	8 9.7	19.7
100767 1998 FE_{26}	16.6	X	213.52115	6.81114	161.08311	2.70201	0.0978835	0.27878817	2.3207044	21	11 10.4	19.7
100768 1998 FN_{27}	15.1	X	110.42032	2.79319	186.37587	14.28448	0.1046650	0.18322124	3.0700975	21	8 5.6	19.9
100769 1998 FU_{29}	16.4	X	211.07480	348.64402	224.51444	3.07521	0.1623592	0.28219260	2.3020017	21	12 28.1	19.5
100770 1998 FG_{31}	16.2	X	215.19804	207.87180	21.11221	5.75408	0.1639094	0.28406640	2.2918673	21	—	—
100771 1998 FA_{32}	16.4	X	253.25961	266.82480	345.00584	7.77834	0.1012016	0.29116967	2.2544397	21	—	—
100772 1998 FN_{34}	15.2	X	74.95287	270.28308	213.21094	3.47494	0.2263508	0.21646792	2.7470951	21	4 15.9	18.5
100773 1998 FU_{34}	16.3	X	152.51520	212.33958	345.93178	3.95838	0.1479555	0.27367234	2.3495360	21	10 10.0	20.0
100774 1998 FV_{37}	16.3	X	154.92634	64.29069	165.54966	4.74422	0.1474692	0.27755963	2.3275473	21	11 23.9	19.8
100775 1998 FL_{42}	14.8	X	53.71952	30.15387	194.50403	7.95153	0.1947271	0.17844519	3.1246363	21	7 24.3	19.0
100776 1998 FY_{46}	16.2	X	127.22018	161.91994	354.16667	3.62236	0.0849571	0.26626365	2.3929197	21	7 16.5	19.4
100777 1998 FL_{52}	16.8	X	168.30592	338.03921	157.11729	2.45937	0.1706907	0.26930073	2.3748947	21	8 4.9	20.4
100778 1998 FX_{52}	16.5	X	242.11652	86.00572	174.43135	3.27120	0.1168589	0.28985662	2.2612430	21	—	—
100779 1998 FJ_{53}	16.3	X	290.30314	35.17451	193.71559	6.33711	0.1212459	0.29227833	2.2487351	21	—	—
100780 1998 FU_{55}	16.3	X	144.81044	40.95694	64.89189	3.43175	0.1596736	0.26398350	2.4066791	21	6 3.9	20.0
100781 1998 FX_{56}	15.0	X	72.73308	261.37823	178.52500	4.28385	0.3067306	0.21196443	2.7858692	21	2 25.5	17.7
100782 1998 FC_{57}	16.0	X	300.54899	1.88396	180.03726	8.02883	0.1910985	0.28916775	2.2648328	21	—	—
100783 1998 FZ_{57}	16.1	X	51.60693	129.70451	331.24306	2.00771	0.1468484	0.29420570	2.2389033	21	—	—
100784 1998 FM_{61}	15.7	X	88.07853	264.76098	0.36854	4.40938	0.2108188	0.27091188	2.3654695	21	11 6.0	19.3
100785 1998 FA_{62}	16.2	X	34.37389	309.38130	331.92595	4.10091	0.1520181	0.30915272	2.1661440	21	9 16.8	18.1
100786 1998 FZ_{69}	16.6	X	250.66950	355.27369	160.65979	5.99291	0.1838802	0.28087353	2.3092033	21	11 30.8	19.3
100787 1998 FW_{70}	15.9	X	122.96149	224.59225	17.32693	7.00230	0.1930964	0.27274972	2.3548315	21	11 7.4	19.7
100788 1998 FC_{72}	15.5	X	348.78288	328.89127	229.10190	3.37389	0.1434114	0.21136169	2.7911631	21	2 11.7	18.9
100789 1998 FK_{74}	16.8	X	213.01185	24.45637	12.04022	1.41985	0.1267812	0.30786365	2.1721865	21	5 9.1	19.7
100790 1998 FQ_{74}	15.1	X	197.17853	307.76780	156.01726	10.12018	0.0559874	0.18354502	3.0664860	21	7 24.5	19.8
100791 1998 FW_{75}	15.5	X	122.41714	310.96503	342.98616	12.28947	0.2403866	0.27847410	2.3224490	21	—	—
100792 1998 FZ_{75}	16.3	X	165.71357	58.68670	210.66088	5.99273	0.1166293	0.28246368	2.3005286	21	—	—
100793 1998 FJ_{76}	15.9	X	269.72823	90.28518	48.61308	7.45855	0.1322322	0.28118568	2.3074940	21	12 13.7	18.2
100794 1998 FK_{76}	16.6	X	232.25134	104.58100	103.07390	4.81652	0.1093314	0.28309641	2.2970995	21	—	—
100795 1998 FS_{76}	16.4	X	146.48733	218.58481	43.65036	7.95591	0.1924999	0.27745914	2.3281093	21	12 23.7	20.2
100796 1998 FM_{77}	15.7	X	157.60375	148.66635	63.54661	6.14889	0.0851272	0.27470072	2.3436685	21	11 5.3	18.9
100797 1998 FP_{78}	14.4	X	284.34869	268.23997	38.21009	13.89934	0.1012644	0.17231650	3.1982922	21	4 17.3	18.9
100798 1998 FG_{79}	16.2	X	210.89768	84.71299	99.16767	4.81673	0.0571350	0.27766535	2.3269564	21	12 3.4	19.0
100799 1998 FX_{79}	15.9	X	327.92525	17.84133	98.22396	3.53175	0.1297019	0.28494926	2.2871309	21	—	—
100800 1998 FZ_{89}	15.0	X	169.25525	81.98642	24.33872	11.51597	0.2240958	0.22632108	2.6667730	21	7 1.1	19.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
100801 1998 FW_{90}	15.6	X	85.77758	22.92783	50.15152	5.79041	0.1108171	0.29590670	2.2303149	21	1 19.1	17.7
100802 1998 FK_{93}	15.2	X	279.00688	355.82624	92.53360	7.40443	0.3149678	0.23772142	2.5808168	21	9 13.5	18.4
100803 1998 FP_{98}	15.2	X	30.21419	289.57287	253.45935	6.68761	0.2427707	0.21563717	2.7541461	21	4 11.1	17.6
100804 1998 FM_{105}	16.2	X	205.44519	240.58523	323.68205	5.88349	0.1521086	0.27996180	2.3142141	21	12 10.8	19.6
100805 1998 FX_{105}	15.8	X	66.73386	222.02392	241.09747	4.89435	0.1253902	0.29603023	2.2296944	21	1 27.3	17.7
100806 1998 FD_{107}	15.7	X	139.07615	302.68340	345.21647	11.14882	0.2269617	0.27895793	2.3197627	21	—	—
100807 1998 FA_{115}	15.9	X	246.34979	268.96001	314.25269	4.99003	0.1581721	0.24278008	2.5448412	21	—	—
100808 1998 FP_{116}	16.2	X	339.39755	6.97110	263.39227	3.40926	0.2052061	0.30064182	2.2068346	21	4 14.2	18.1
100809 1998 FW_{117}	16.6	X	12.89097	242.96980	342.02704	4.82681	0.2251458	0.30013566	2.2093150	21	4 15.4	17.8
100810 1998 FW_{119}	16.7	X	171.82452	108.35708	126.66038	1.85758	0.1880582	0.27943013	2.3171486	21	12 13.3	20.2
100811 1998 FB_{120}	16.4	X	208.98641	122.92744	70.12648	2.57979	0.1696790	0.28022260	2.3127780	21	11 28.7	19.6
100812 1998 FK_{123}	15.7	X	168.59296	286.28366	194.57757	11.15139	0.1525419	0.22591341	2.6699802	21	7 14.9	20.3
100813 1998 FE_{124}	15.1	X	46.90156	342.80966	109.87358	7.69885	0.1482625	0.20956777	2.8070688	21	1 5.4	18.2
100814 1998 FA_{125}	16.5	X	125.48477	146.95302	104.18160	4.06918	0.2016298	0.27398075	2.3477725	21	11 23.5	20.2
100815 1998 FQ_{125}	14.9	X	50.51993	154.22673	314.05551	7.13044	0.1772585	0.21141968	2.7906526	21	2 3.8	17.8
100816 1998 FT_{129}	16.5	X	63.56922	74.27696	66.68323	2.94833	0.1572961	0.25855516	2.4402477	21	4 5.6	18.9
100817 1998 FM_{133}	16.4	X	165.45578	110.57299	16.71267	4.13586	0.1073589	0.26873550	2.3782236	21	7 23.3	19.9
100818 1998 FW_{133}	16.9	X	202.97829	139.91972	25.10679	1.14555	0.1464624	0.27627090	2.3347799	21	10 18.9	20.3
100819 1998 FX_{133}	15.6	X	118.82850	84.02871	148.41631	1.06211	0.2435188	0.18809854	3.0167947	21	10 19.9	20.7
100820 1998 FM_{139}	16.0	X	131.33584	202.71898	359.83761	5.45608	0.0833619	0.27065818	2.3669474	21	9 22.5	19.4
100821 1998 FA_{140}	16.5	X	249.79418	95.57820	184.50362	3.34282	0.0665948	0.29351428	2.2424179	21	1 17.6	19.4
100822 1998 FG_{140}	16.1	X	74.86974	212.10831	316.74777	4.52043	0.0774850	0.26209192	2.4182450	21	5 20.0	19.0
100823 1998 FS_{140}	15.6	X	104.96834	265.32569	196.24621	9.49867	0.1997129	0.21781265	2.7357768	21	4 24.3	19.5
100824 1998 FF_{142}	16.3	X	108.53997	67.90846	192.48700	5.56329	0.1204579	0.27402672	2.3475099	21	11 15.8	19.7
100825 1998 FW_{145}	16.3	X	180.88383	161.25655	74.03033	5.35021	0.2041641	0.27984840	2.3148392	21	12 20.6	20.0
100826 1998 HH_{2}	16.6	X	183.71659	273.37409	186.54257	1.60216	0.1537622	0.26953876	2.3734964	21	7 4.5	20.4
100827 1998 HU_{2}	16.0	X	74.71816	249.17366	109.92533	5.01357	0.2432369	0.23397451	2.6082969	21	—	—
100828 1998 HM_{6}	15.9	X	210.83866	124.08255	177.95943	6.74641	0.2503302	0.28710564	2.2756645	21	1 9.2	19.8
100829 1998 HW_{8}	16.7	X	282.95371	335.95361	158.50536	5.28022	0.0429456	0.28017634	2.3130325	21	—	—
100830 1998 HV_{9}	15.0	X	222.73209	325.22707	133.18320	4.57104	0.1174551	0.18416886	3.0595573	21	8 11.6	19.7
100831 1998 HW_{9}	16.0	X	165.39773	163.48761	106.15748	3.64944	0.1865663	0.27961313	2.3161375	21	—	—
100832 1998 HS_{10}	16.4	X	240.08436	217.00534	52.67915	4.04545	0.1862689	0.28910634	2.2651535	21	—	—
100833 1998 HW_{10}	14.8	X	311.35584	260.38778	52.70565	5.56624	0.1219594	0.17710819	3.1403420	21	5 25.8	19.0
100834 1998 HS_{12}	16.6	X	43.81725	314.19109	119.37076	4.16846	0.1038422	0.28756823	2.2732234	21	—	—
100835 1998 HA_{14}	15.8	X	210.00041	134.89907	74.33285	26.34932	0.1445939	0.28003777	2.3137955	21	12 21.6	19.1
100836 1998 HF_{14}	14.7	X	11.07949	187.67008	113.82529	5.86159	0.1349303	0.18069416	3.0986555	21	8 21.5	18.3
100837 1998 HG_{15}	16.1	X	297.90846	259.65537	77.69023	5.98857	0.2195096	0.30066154	2.2067381	21	5 16.8	18.4
100838 1998 HB_{16}	16.5	X	256.29003	126.75518	67.38361	6.91147	0.0867897	0.28381056	2.2932444	21	—	—
100839 1998 HW_{18}	16.7	X	303.43287	310.11052	207.33457	5.41435	0.1846244	0.28715987	2.2753780	21	—	—
100840 1998 HD_{19}	16.7	X	327.80020	50.33794	224.64519	3.83701	0.2166377	0.29974774	2.2112208	21	3 28.9	18.8
100841 1998 HU_{19}	15.5	X	227.61254	21.88308	191.14561	23.61625	0.1327154	0.28377090	2.2934581	21	—	—
100842 1998 HX_{19}	15.2	X	51.91394	130.46648	8.29971	6.29963	0.1500857	0.21332808	2.7739845	21	3 18.7	18.1
100843 1998 HH_{21}	16.6	X	109.30792	154.08049	59.52484	1.47687	0.1557565	0.26902836	2.3764974	21	9 19.1	20.1
100844 1998 HH_{23}	15.1	X	70.54076	52.80440	150.50227	3.42790	0.0452278	0.17888540	3.1195081	21	6 29.5	19.4
100845 1998 HY_{23}	16.3	X	283.59605	6.43421	249.55591	2.31190	0.1228260	0.29360591	2.2419514	21	1 20.1	19.3
100846 1998 HW_{25}	15.6	X	190.15690	323.32597	40.96321	6.41511	0.1361169	0.29674480	2.2261135	21	3 7.9	18.9
100847 1998 HN_{26}	16.3	X	180.72117	82.90717	90.88719	4.61796	0.1725700	0.27208907	2.3586418	21	10 8.3	20.0
100848 1998 HE_{29}	15.7	X	150.07260	195.21819	6.33046	7.58963	0.0856098	0.27250952	2.3562151	21	10 11.6	19.1
100849 1998 HN_{29}	16.3	X	227.35237	158.05169	13.71658	7.39039	0.0447096	0.27880079	2.3206343	21	12 9.2	19.3
100850 1998 HV_{31}	15.6	X	215.61628	348.94344	220.13966	24.94726	0.1700490	0.27957873	2.3163275	21	12 23.0	19.2
100851 1998 HB_{33}	16.1	X	101.38152	32.50121	210.41154	3.93595	0.0963631	0.27080423	2.3660963	21	10 12.4	19.4
100852 1998 HY_{33}	15.7	X	125.79055	53.47193	211.44055	8.66704	0.2512345	0.27424232	2.3462794	21	12 10.7	19.9
100853 1998 HH_{34}	15.6	X	160.39369	268.58592	192.14235	7.90524	0.3299904	0.22397042	2.6853997	21	6 19.7	20.7
100854 1998 HU_{35}	15.9	X	303.34767	130.28672	135.01704	3.25710	0.1640383	0.25388191	2.4701019	21	2 26.7	19.0
100855 1998 HH_{37}	16.0	X	93.96028	266.53907	295.45339	1.28764	0.1492080	0.26551877	2.3973930	21	8 15.1	19.1
100856 1998 HX_{43}	16.2	X	107.47843	134.37478	67.43266	2.18547	0.1329147	0.26708758	2.3879960	21	8 30.4	19.5
100857 1998 HZ_{43}	15.2	X	32.99771	119.43050	37.65042	8.54411	0.1478389	0.21219203	2.7838767	21	3 12.7	18.2
100858 1998 HB_{44}	14.6	X	20.22039	212.18714	35.38167	11.66060	0.1203059	0.17641689	3.1485404	21	6 21.1	18.6
100859 1998 HR_{46}	15.2	X	18.02439	221.71620	36.73068	11.60989	0.1681724	0.21900814	2.7258119	21	7 7.8	18.2
100860 1998 HA_{52}	16.1	X	42.32239	55.58557	202.91815	5.47653	0.1962788	0.26349168	2.4096730	21	8 28.3	18.7
100861 1998 HX_{53}	14.9	X	202.77319	349.65873	185.98836	11.16544	0.0457322	0.19116901	2.9844047	21	11 1.7	19.3
100862 1998 HF_{54}	15.1	X	15.43255	32.41368	198.61079	4.88082	0.1079706	0.17409531	3.1764694	21	5 22.6	19.0
100863 1998 HQ_{54}	16.3	X	135.44707	217.70702	339.76598	4.78527	0.1384208	0.26997497	2.3709390	21	9 21.9	20.0
100864 1998 HW_{54}	15.7	X	173.21507	226.07907	298.69988	2.63859	0.2377079	0.18684872	3.0302326	21	9 10.4	21.1
100865 1998 HA_{58}	16.8	X	187.00090	148.71354	61.89430	2.17994	0.1195300	0.27775246	2.3264699	21	12 2.2	19.8
100866 1998 HM_{60}	15.8	X	110.36989	283.76355	301.01887	2.93608	0.1957520	0.22660319	2.6645592	21	10 1.9	20.2
100867 1998 HC_{61}	16.7	X	234.99242	231.31382	25.14569	3.21255	0.2051386	0.28621785	2.2803678	21	—	—
100868 1998 HE_{61}	16.2	X	187.72826	20.41878	212.05776	11.03090	0.1515342	0.27917261	2.3185734	21	12 27.1	19.7
100869 1998 HQ_{71}	14.8	X	31.66753	263.50210	50.66681	10.68482	0.0724000	0.18527061	3.0474156	21	10 6.6	18.9
100870 1998 HM_{78}	16.1	X	188.84703	187.59053	353.44687	2.07479	0.1505542	0.27463745	2.3440284	21	10 23.8	19.4
100871 1998 HH_{81}	17.1	X	228.66613	24.00637	199.17575	2.01206	0.1151840	0.28289218	2.2982050	21	—	—
100872 1998 HS_{81}	14.9	X	162.46532	142.74847	44.81865	6.62551	0.1356285	0.18710427	3.0274728	21	10 2.1	19.8
100873 1998 HT_{82}	16.6	X	167.41587	309.14837	299.58111	1.37817	0.1783521	0.27784384	2.3259598	21	12 26.4	20.2
100874 1998 HG_{83}	14.7	X	318.21257	190.02282	81.38151	6.82020	0.1778149	0.17056415	3.2201607	21	4 8.3	18.9
100875 1998 HW_{84}	15.9	X	120.77601	175.40994	64.68496	5.16566	0.1201589	0.27172588	2.3607430	21	11 2.3	19.2
100876 1998 HK_{86}	16.9	X	230.37300	13.31246	219.14005	8.88137	0.1740372	0.28364466	2.2941385	21	—	—
100877 1998 HN_{86}	14.6	X	118.27334	349.67178	222.16776	7.70135	0.1251236	0.18378387	3.0638285	21	9 13.4	19.4
100878 1998 HJ_{90}	17.2	X	142.96127	98.01143	134.20152	2.88711	0.1647901	0.27353574	2.3503182	21	11 14.9	20.8
100879 1998 HC_{91}	16.6	X	176.05962	98.29544	120.12762	3.75691	0.1970429	0.27629813	2.3346265	21	11 26.4	20.3
100880 1998 HM_{93}	14.7	X	359.25353	287.36779	346.56156	4.60549	0.1460084	0.17587667	3.1549845	21	6 21.1	18.3

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
100881 1998 HK_{98}	16.5	X	175.60677	236.09851	16.35536	5.23746	0.2091883	0.27830128	2.3234103	21	—	—
100882 1998 HK_{101}	16.9	X	154.69637	124.47786	114.78846	3.19808	0.1363146	0.27531450	2.3401839	21	12 4.7	20.3
100883 1998 HY_{101}	16.4	X	170.72606	52.13309	214.14981	2.80019	0.2126208	0.27831128	2.3233547	21	—	—
100884 1998 HB_{102}	15.8	X	350.25628	179.25874	42.85444	7.47862	0.1628461	0.29609995	2.2293444	21	3 4.2	17.9
100885 1998 HV_{106}	15.9	X	139.14818	33.73252	123.50451	7.46350	0.2475228	0.26716629	2.3875269	21	8 10.9	19.9
100886 1998 HR_{108}	15.8	X	160.33139	162.79927	102.74083	7.40019	0.1892320	0.27857819	2.3218704	21	—	—
100887 1998 HB_{116}	14.6	X	55.84502	177.00598	78.22681	11.22563	0.1850239	0.18077519	3.0977296	21	9 12.3	18.9
100888 1998 HH_{117}	16.2	X	97.98532	201.27659	71.57701	7.83064	0.1027335	0.27234092	2.3571874	21	11 18.7	19.5
100889 1998 HU_{117}	15.9	X	291.86238	107.28993	106.88501	5.72360	0.1086442	0.28933220	2.2639745	21	—	—
100890 1998 HS_{122}	16.2	X	248.12099	161.74839	89.96061	7.11840	0.1535607	0.28699890	2.2762287	21	—	—
100891 1998 HJ_{124}	15.6	X	140.97582	64.06175	177.48802	7.99814	0.2660718	0.27329386	2.3517048	21	11 25.2	19.8
100892 1998 HM_{125}	16.0	X	136.24949	53.75219	159.33022	6.93361	0.1354896	0.27026517	2.3692415	21	10 15.9	19.6
100893 1998 HH_{130}	14.6	X	127.72063	51.05971	186.64462	11.58472	0.0428560	0.19017257	2.9948205	21	10 23.6	18.9
100894 1998 HK_{145}	16.0	X	118.82406	189.75119	75.52860	7.32770	0.1641275	0.27332785	2.3515098	21	12 3.2	19.5
100895 1998 HN_{146}	14.9	X	21.00064	72.07103	186.26799	19.68239	0.1436491	0.17771060	3.1332412	21	7 7.5	19.0
100896 1998 JT_{3}	14.7	X	67.72434	75.62306	126.82286	6.42751	0.1023978	0.17459163	3.1704465	21	7 3.0	19.0
100897 Piatra Neamt	16.6	X	22.64663	311.22683	356.89339	1.46828	0.1598257	0.30752137	2.1737980	21	10 10.1	18.5
100898 1998 JG_{4}	16.3	X	78.82595	50.23225	192.63344	2.45039	0.1543912	0.26569339	2.3963425	21	9 22.2	19.6
100899 1998 KC_{6}	16.4	X	68.90939	148.32054	145.66779	2.96757	0.1889171	0.26426791	2.4049521	21	11 22.2	19.7
100900 1998 KU_{6}	16.0	X	92.41426	77.69409	196.01494	5.45133	0.1826830	0.31224717	2.1518089	21	11 26.2	19.1
100901 1998 KZ_{6}	16.1	X	53.01517	209.49855	85.76283	5.00797	0.1852167	0.26677230	2.3898771	21	11 6.1	19.1
100902 1998 KS_{8}	15.9	X	78.02069	35.76067	143.72823	6.77908	0.1287348	0.30216487	2.1994127	21	6 18.9	18.3
100903 1998 KU_{8}	16.1	X	124.77040	75.75953	152.16975	6.56859	0.1116727	0.26965931	2.3727889	21	10 22.5	19.6
100904 1998 KW_{10}	15.2	X	322.54464	238.30523	125.92469	11.18730	0.0931460	0.18054254	3.1003901	21	8 24.9	19.1
100905 1998 KY_{11}	14.5	X	59.51917	21.10648	182.39562	15.79803	0.0332913	0.17287330	3.1914210	21	6 14.2	19.2
100906 1998 KF_{15}	16.6	X	331.61566	31.46962	237.10913	5.53328	0.1665510	0.29823893	2.2186723	21	4 3.4	18.9
100907 1998 KP_{16}	15.2	X	72.95396	173.80671	52.08201	4.48562	0.1937867	0.22114771	2.7082022	21	8 27.9	18.9
100908 1998 KH_{17}	16.0	X	147.44998	71.58884	219.97490	22.37093	0.4261529	0.27470605	2.3436382	21	—	—
100909 1998 KV_{22}	16.4	X	139.56387	62.22777	156.70029	3.02771	0.1772920	0.27149013	2.3621095	21	10 26.5	20.1
100910 1998 KR_{23}	15.7	X	255.40191	28.24729	117.92609	5.06689	0.1302007	0.27769930	2.3267668	21	12 2.0	18.2
100911 1998 KF_{26}	16.5	X	88.95349	88.79268	177.25989	4.86111	0.2222867	0.26880034	2.3778411	21	11 11.3	20.3
100912 1998 KU_{26}	13.8	X	176.47802	34.27753	37.69604	23.81570	0.1259030	0.17502386	3.1652246	21	5 19.8	19.0
100913 1998 KJ_{28}	16.3	X	201.95972	193.78457	48.40775	7.88412	0.1906974	0.28010157	2.3134442	21	—	—
100914 1998 KZ_{29}	16.1	X	316.89683	194.97371	69.11074	3.18207	0.1664154	0.25308838	2.4752624	21	3 15.9	19.2
100915 1998 KH_{49}	16.0	X	12.24306	51.18194	196.07058	7.87859	0.1639382	0.25808986	2.4431798	21	6 4.8	18.2
100916 1998 KU_{50}	14.3	X	37.04381	154.47884	101.34246	17.03697	0.0931751	0.17695197	3.1421900	21	7 28.7	18.4
100917 1998 KX_{51}	15.9	X	176.64454	44.81692	155.88705	10.16672	0.2051544	0.27386813	2.3484161	21	11 6.8	19.8
100918 1998 KF_{52}	15.8	X	107.63169	154.23900	114.13183	10.15667	0.1893849	0.27072705	2.3665460	21	11 29.7	19.7
100919 1998 KU_{54}	15.5	X	32.08534	122.01105	166.08256	10.63270	0.2267471	0.26262986	2.4149417	21	10 3.3	18.0
100920 1998 KT_{56}	16.3	X	217.45405	195.96437	79.59376	6.07961	0.1562221	0.28579802	2.2826005	21	—	—
100921 1998 KZ_{60}	15.8	X	63.97266	143.18830	135.35564	9.44128	0.1668378	0.26642194	2.3919718	21	10 28.3	19.1
100922 1998 KR_{61}	15.4	X	227.85548	122.01754	128.04590	11.86935	0.2795000	0.28282620	2.2985624	21	—	—
100923 1998 LU_{1}	16.6	X	136.10488	175.04962	100.17761	3.65281	0.1933998	0.27412699	2.3469375	21	12 30.5	20.5
100924 Luctuymans	16.6	X	109.72752	66.48829	231.80872	1.72322	0.2003416	0.27379632	2.3488267	21	—	—
100925 1998 LV_{3}	15.6	X	81.19054	276.48282	62.81102	3.82783	0.2489111	0.27411109	2.3470282	21	—	—
100926 1998 MQ	16.6	X	192.74517	138.77708	221.09559	24.24025	0.4075798	0.41396822	1.7830275	21	2 22.3	20.3
100927 1998 MN_{1}	14.9	X	301.60975	135.31895	172.67743	4.70582	0.1368825	0.17119262	3.2122748	21	5 5.5	19.3
100928 1998 MM_{5}	16.0	X	176.99760	24.25541	342.59575	4.60827	0.2505537	0.23822974	2.5771443	21	3 7.6	20.3
100929 1998 MQ_{6}	16.0	X	282.52961	79.32642	290.31469	5.84614	0.1034818	0.21212711	2.7844447	21	7 1.7	19.7
100930 1998 MG_{9}	16.4	X	130.36388	140.95223	171.83102	5.98616	0.2127365	0.27605379	2.3360040	21	—	—
100931 1998 MP_{11}	16.0	X	92.00615	40.19449	224.01933	11.41750	0.2729071	0.26730662	2.3866912	21	11 14.5	19.8
100932 1998 MV_{22}	15.6	X	200.69219	216.22078	236.93202	22.35762	0.0516442	0.26247805	2.4158727	21	7 10.9	19.4
100933 1998 MK_{30}	15.6	X	313.68645	156.20110	203.00593	5.50325	0.4378355	0.25472236	2.4646656	21	6 5.2	18.2
100934 Marthanussbaum	16.3	X	87.75141	198.02997	72.68390	3.50533	0.1673759	0.26613756	2.3936755	21	11 10.0	19.8
100935 1998 MA_{42}	15.4	X	197.01653	60.72587	282.17119	4.40730	0.3159780	0.28519981	2.2857912	21	2 18.2	19.5
100936 Mekong	16.0	X	61.35954	358.05629	283.46666	2.60347	0.1315423	0.26376046	2.4080357	21	10 17.9	19.1
100937 1998 MH_{43}	15.8	X	47.16307	136.59377	200.31676	1.74176	0.2299653	0.26646958	2.3916867	21	12 27.6	19.1
100938 1998 MC_{44}	15.2	X	320.30697	57.97530	276.78557	7.54819	0.2972715	0.21290148	2.7776889	21	6 9.6	18.1
100939 1998 MG_{46}	16.2	X	256.85230	25.20508	288.02582	6.31098	0.2285316	0.28937935	2.2637286	21	2 25.7	19.9
100940 Maunder	15.2	X	186.28282	144.28359	111.39650	15.85878	0.1662780	0.23345177	2.6121890	21	—	—
100941 1998 MD_{48}	16.2	X	345.47524	33.89076	260.15678	1.58653	0.1950927	0.25552834	2.4594802	21	6 16.5	17.9
100942 1998 OQ_{3}	16.4	X	1.22429	58.06419	273.63479	5.46137	0.0611935	0.26067577	2.4269953	21	9 14.7	19.2
100943 1998 OH_{4}	16.1	X	0.67402	191.27818	152.76821	6.73769	0.1477958	0.26085291	2.4258964	21	10 16.2	18.4
100944 1998 OT_{7}	16.3	X	60.65654	50.82318	228.35323	1.76143	0.1821063	0.26197083	2.4189901	21	10 22.2	19.5
100945 1998 OE_{8}	16.1	X	313.68497	330.48542	313.82160	5.25727	0.1199251	0.29238120	2.2482076	21	4 5.8	18.9
100946 1998 OD_{10}	16.3	X	34.85113	325.57589	317.18147	1.45424	0.1734208	0.25897276	2.4376237	21	9 17.7	18.8
100947 1998 OS_{12}	14.6	X	70.05993	59.01882	319.63422	12.63887	0.2200740	0.22763783	2.6564792	21	—	—
100948 1998 OF_{13}	16.1	X	103.03261	155.51340	158.50133	2.59038	0.2146215	0.26971735	2.3724485	21	—	—
100949 1998 OJ_{14}	17.0	X	117.02836	212.60370	103.94667	2.65379	0.2482555	0.27163431	2.3612736	21	—	—
100950 1998 PA	16.0	X	53.73438	191.53654	155.83983	3.45984	0.1984162	0.26735763	2.3863877	21	—	—
100951 1998 QC_{3}	15.8	X	79.34311	148.45510	137.30028	14.07032	0.2253312	0.26475271	2.4020153	21	11 28.8	19.8
100952 1998 QR_{5}	15.8	X	135.09485	99.99405	318.26032	18.47355	0.3045677	0.28009844	2.3134614	21	3 26.6	19.9
100953 1998 QB_{6}	15.9	X	104.22113	186.83696	199.79407	3.36671	0.1878077	0.22897378	2.6461363	21	1 11.8	19.2
100954 1998 QR_{6}	15.5	X	124.30485	282.11981	62.90316	1.09842	0.1900613	0.22756820	2.6570211	21	—	—
100955 1998 QJ_{9}	15.9	X	161.15027	121.11283	257.59676	5.09454	0.2278193	0.28239835	2.3008834	21	2 28.7	19.5
100956 1998 QF_{10}	16.0	X	104.52323	63.65999	255.60606	1.76940	0.2232303	0.27090425	2.3655139	21	—	—
100957 1998 QX_{11}	16.1	X	46.36929	184.71116	160.14770	8.15114	0.2820131	0.26564173	2.3966531	21	—	—
100958 1998 QD_{12}	16.2	X	200.92668	195.02431	178.86002	6.41663	0.1813590	0.28687622	2.2768776	21	3 30.3	19.7
100959 1998 QO_{12}	15.0	X	300.82586	228.01392	172.59227	8.54634	0.1553572	0.21527618	2.7572241	21	9 1.0	18.3
100960 1998 QS_{12}	15.1	X	172.62675	186.13169	163.07066	8.70504	0.2091087	0.23788190	2.5796560	21	2 8.3	19.3

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
100961 1998 QL_{13}	15.4	X	336.74982	42.13699	331.52162	8.91286	0.2265378	0.21660973	2.7458959	21	9 25.7	17.8
100962 1998 QV_{13}	16.3	X	214.99586	175.84396	147.03612	7.41649	0.2288254	0.28419826	2.2911584	21	2 6.9	20.0
100963 1998 QW_{14}	14.6	X	7.89272	9.10715	296.06541	10.97755	0.1554350	0.21472305	2.7619572	21	8 19.9	17.6
100964 1998 QL_{16}	15.2	X	34.60819	205.74435	168.37627	12.23211	0.1884483	0.22348980	2.6892483	21	—	—
100965 1998 QG_{17}	15.9	X	157.01850	28.88616	335.44865	6.41101	0.1386941	0.28078572	2.3096847	21	2 1.5	19.1
100966 1998 QP_{18}	16.2	X	83.10786	166.65166	152.58075	8.68393	0.2076253	0.26781641	2.3836615	21	—	—
100967 1998 QF_{20}	16.1	X	139.26956	138.58247	244.49856	4.67034	0.2103156	0.27928848	2.3179320	21	2 11.8	19.4
100968 1998 QL_{20}	16.1	X	76.17179	104.16215	239.76050	2.53781	0.2363425	0.26870499	2.3784036	21	—	—
100969 1998 QV_{21}	16.2	X	307.34288	162.86431	200.48631	2.10423	0.1933877	0.25487189	2.4637015	21	7 16.1	18.6
100970 1998 QZ_{21}	15.8	X	205.89096	63.12909	282.46861	2.58553	0.1885133	0.24117679	2.5561071	21	3 2.4	20.1
100971 1998 QE_{22}	15.3	X	233.99786	47.09250	244.22536	2.64134	0.2469780	0.24053000	2.5606873	21	1 19.7	19.8
100972 1998 QP_{22}	15.8	X	19.34902	298.86957	69.66612	3.69412	0.1858925	0.26436555	2.4043599	21	12 26.9	18.5
100973 1998 QZ_{23}	15.7	X	12.18641	203.18061	183.01179	7.72994	0.2141288	0.22118063	2.7079335	21	12 31.9	19.0
100974 1998 QG_{24}	15.9	X	93.37286	175.53371	200.28678	3.89524	0.2839575	0.22933643	2.6433460	21	—	—
100975 1998 QB_{25}	16.6	X	162.04016	174.59807	148.76816	3.17870	0.1897706	0.27728174	2.3291021	21	—	—
100976 1998 QK_{25}	14.7	X	80.73324	17.17906	338.34639	8.85294	0.2104105	0.22696555	2.6617224	21	—	—
100977 1998 QJ_{26}	15.8	X	81.45554	138.51224	163.48982	11.06912	0.2233670	0.26565891	2.3965498	21	12 17.7	19.8
100978 1998 QB_{27}	16.7	X	319.80996	334.90254	306.43995	18.27494	0.0906950	0.37796608	1.8945271	21	3 24.0	19.1
100979 1998 QH_{27}	15.4	X	110.74055	73.07245	320.19289	22.59910	0.2464455	0.27495585	2.3422185	21	1 31.8	18.1
100980 1998 QJ_{27}	15.7	X	201.13222	357.06440	327.34353	17.86207	0.1194903	0.36678190	1.9328469	21	1 14.2	18.3
100981 1998 QK_{27}	16.4	X	57.09245	5.48934	308.74043	2.00464	0.1718117	0.26512856	2.3997447	21	12 1.8	19.7
100982 1998 QU_{28}	15.9	X	73.68488	154.82844	240.75989	4.52330	0.0955573	0.27384644	2.3485401	21	—	—
100983 1998 QQ_{29}	16.1	X	32.53842	58.80089	191.35263	6.04144	0.0990902	0.25392022	2.4698535	21	7 13.7	18.9
100984 1998 QQ_{30}	15.7	X	218.17738	196.69310	120.55671	6.15349	0.2213020	0.24051370	2.5608030	21	2 8.6	20.0
100985 1998 QW_{30}	15.2	X	97.92572	139.61687	176.29416	2.50625	0.2404718	0.18251395	3.0780240	21	—	—
100986 1998 QB_{33}	16.5	X	178.71681	85.06239	216.08290	2.20681	0.1707666	0.27714886	2.3298465	21	—	—
100987 1998 QR_{33}	15.6	X	194.51261	138.44661	230.89081	4.47482	0.2898341	0.24116176	2.5562133	21	3 22.5	20.3
100988 1998 QU_{33}	15.3	X	90.47319	49.41688	280.47176	1.93593	0.1912701	0.22602384	2.6691105	21	—	—
100989 1998 QA_{34}	16.2	X	46.54517	39.02741	316.99017	1.98231	0.2134955	0.26593793	2.3948732	21	—	—
100990 1998 QF_{36}	16.1	X	192.31687	35.74596	319.07357	6.65686	0.1538889	0.28338951	2.2955154	21	2 24.1	19.7
100991 1998 QG_{36}	16.6	X	227.61533	348.09007	314.30943	4.43703	0.2170775	0.28336273	2.2956600	21	1 23.8	20.5
100992 1998 QD_{37}	16.2	X	129.65316	108.35311	248.94207	3.93434	0.1709901	0.27574985	2.3377202	21	—	—
100993 1998 QG_{39}	14.9	X	47.30472	11.24870	344.24955	8.90660	0.3073493	0.22239004	2.6981069	21	—	—
100994 1998 QH_{39}	16.2	X	230.40794	197.57551	136.57184	6.77263	0.2261041	0.28624881	2.2802034	21	3 6.3	20.1
100995 1998 QA_{40}	16.1	X	313.29435	168.83022	164.14213	5.22178	0.2460747	0.25280069	2.4771400	21	6 2.4	18.8
100996 1998 QB_{41}	15.8	X	248.89461	178.64079	182.85203	3.81904	0.1401475	0.24746774	2.5126018	21	5 4.9	19.6
100997 1998 QF_{41}	16.6	X	231.82357	205.11332	164.94960	6.34557	0.2154182	0.28904578	2.2654699	21	4 22.1	20.3
100998 1998 QH_{41}	16.2	X	208.06721	163.15008	160.37838	2.70112	0.2523699	0.28266046	2.2994608	21	2 2.9	20.2
100999 1998 QC_{43}	15.7	X	154.50831	265.14353	141.83396	4.16844	0.1897577	0.28319709	2.2965550	21	3 31.3	19.1
101000 1998 QT_{43}	16.0	X	63.44930	269.72097	59.16971	3.40050	0.2013637	0.26571846	2.3961917	21	12 31.2	19.6
101001 1998 QD_{46}	16.2	X	203.96652	35.82108	317.35713	1.84275	0.1650786	0.28428001	2.2907191	21	3 5.8	19.8
101002 1998 QE_{46}	16.8	X	252.82115	228.62211	159.47431	6.08996	0.2029807	0.29301563	2.2449613	21	6 5.1	20.1
101003 1998 QW_{46}	16.3	X	155.56823	90.81714	276.85180	3.98895	0.2403998	0.27909470	2.3190049	21	2 12.6	19.9
101004 1998 QY_{46}	16.2	X	210.93768	343.46370	356.12416	4.28269	0.2305798	0.24069486	2.5595179	21	3 1.2	20.6
101005 1998 QD_{47}	16.1	X	176.82066	358.33835	24.32474	4.53388	0.1737278	0.28375504	2.2935436	21	3 20.0	19.5
101006 1998 QG_{47}	15.4	X	158.36668	322.46209	10.25910	6.44216	0.2180984	0.23398506	2.6082185	21	1 10.8	19.6
101007 1998 QM_{48}	15.7	X	189.08313	40.15906	321.97347	5.98377	0.1909096	0.28292517	2.2980263	21	3 3.8	19.4
101008 1998 QO_{48}	16.6	X	274.69996	166.82329	176.87161	4.53571	0.1486439	0.29183258	2.2510244	21	5 6.9	19.4
101009 1998 QQ_{48}	15.8	X	148.34570	87.45278	328.66554	6.42441	0.1378794	0.28346672	2.2950985	21	3 27.5	19.0
101010 1998 QX_{48}	16.1	X	185.99854	216.54111	154.54867	4.47994	0.2239696	0.28330992	2.2959453	21	3 15.6	19.9
101011 1998 QS_{49}	15.7	X	311.67569	288.61862	57.14580	2.93471	0.1875579	0.25351110	2.4725101	21	6 28.7	18.2
101012 1998 QJ_{50}	15.8	X	290.24673	27.97636	3.13738	5.54922	0.1306988	0.29821858	2.2187732	21	8 13.7	18.1
101013 1998 QV_{52}	15.0	X	55.89344	20.85829	303.05930	8.37886	0.2237090	0.22049127	2.7135747	21	12 11.7	19.1
101014 1998 QL_{54}	16.2	X	194.55840	128.76014	208.09932	4.20197	0.1969275	0.28090584	2.3090262	21	2 5.6	19.9
101015 1998 QE_{55}	15.3	X	127.21687	346.96933	351.92654	16.95348	0.2048629	0.22925749	2.6439528	21	—	—
101016 1998 QP_{55}	15.2	X	105.93995	308.75052	27.15875	2.80446	0.2029193	0.22495615	2.6775492	21	—	—
101017 1998 QR_{56}	16.9	X	64.05250	72.75510	338.80462	0.74426	0.1745172	0.27206434	2.3587847	21	—	—
101018 1998 QB_{57}	15.1	X	41.90833	195.11626	171.96810	26.84328	0.0270905	0.22273695	2.6953047	21	12 22.8	19.4
101019 1998 QQ_{57}	16.5	X	160.16379	126.45496	192.61914	1.36249	0.1742481	0.23227204	2.6210266	21	—	—
101020 1998 QF_{59}	15.6	X	320.05063	80.27485	354.67544	3.60881	0.2049289	0.21837089	2.7311123	21	11 22.2	18.0
101021 1998 QR_{59}	15.9	X	355.91254	40.26174	344.29551	4.13880	0.1718027	0.21831032	2.7316174	21	11 23.9	18.7
101022 1998 QA_{60}	16.5	X	288.13724	107.98403	161.18475	5.11850	0.1897910	0.24297230	2.5434988	21	2 11.7	20.3
101023 1998 QB_{61}	14.6	X	152.80028	51.13241	305.18909	9.54559	0.1010826	0.19310849	2.9643886	21	1 27.5	18.9
101024 1998 QO_{61}	15.7	X	299.70596	276.26732	82.43883	3.60902	0.2158982	0.25445999	2.4663595	21	6 22.3	18.5
101025 1998 QJ_{63}	16.1	X	256.47060	109.56385	214.82819	5.48727	0.1503941	0.24386199	2.5373087	21	3 23.2	20.0
101026 1998 QT_{63}	16.2	X	294.50894	106.52018	221.68954	5.99999	0.1408646	0.29359313	2.2420164	21	5 11.5	18.7
101027 1998 QL_{71}	15.6	X	169.96499	197.18186	201.75532	7.00839	0.2904747	0.28345158	2.2951802	21	4 8.3	19.4
101028 1998 QZ_{74}	14.9	X	339.20824	167.01978	225.75153	11.67340	0.1399254	0.21752967	2.7381488	21	11 2.2	17.6
101029 1998 QJ_{75}	15.5	X	241.37846	323.41389	286.34147	9.13867	0.1765054	0.27843243	2.3226807	21	—	—
101030 1998 QF_{76}	14.7	X	207.06293	78.83866	217.68996	9.08496	0.2266687	0.23655889	2.5892652	21	1 5.6	19.4
101031 1998 QU_{76}	15.8	X	100.92409	99.18299	276.64132	5.43604	0.1269009	0.27339148	2.3511449	21	—	—
101032 1998 QM_{80}	15.6	X	159.30427	173.82889	182.54653	13.93052	0.3235038	0.23607476	2.5928040	21	2 12.4	20.3
101033 1998 QR_{82}	15.0	X	285.58035	108.02620	272.28766	7.83612	0.1707829	0.21080758	2.7960519	21	7 9.1	18.6
101034 1998 QT_{82}	15.8	X	110.09603	47.38958	218.98673	5.97937	0.1861518	0.26621524	2.3932098	21	11 26.9	19.6
101035 1998 QL_{83}	15.7	X	337.97817	64.24976	234.52923	6.67269	0.1201264	0.25260350	2.4784289	21	6 15.9	18.1
101036 1998 QF_{87}	14.6	X	21.05701	162.77635	221.91109	8.46021	0.2368133	0.22102563	2.7091994	21	—	—
101037 1998 QX_{90}	16.2	X	166.86913	183.69334	156.70099	7.28346	0.2874831	0.27814428	2.3242845	21	1 24.6	20.1
101038 1998 QA_{96}	15.4	X	8.23882	71.69165	309.77932	24.97816	0.4183811	0.17400894	3.1775203	21	—	—
101039 1998 QM_{97}	15.4	X	118.91793	164.92891	177.51115	14.50681	0.2630529	0.23030002	2.6359676	21	—	—
101040 1998 QJ_{98}	14.9	X	251.89492	125.22854	171.75281	13.53545	0.1981712	0.24059944	2.5601946	21	2 9.9	19.2

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
101041 1998 QV_{98}	14.7	X	281.57277	166.66728	305.62861	25.06686	0.2253354	0.26114036	2.4241159	21	10 22.9	18.2
101042 1998 QN_{99}	15.8	X	322.57329	157.93062	144.52155	4.43900	0.1894147	0.29391958	2.2403560	21	5 10.9	17.9
101043 1998 QP_{99}	15.9	X	47.14999	274.04609	131.26797	3.13831	0.1718121	0.26944365	2.3740549	21	—	—
101044 1998 QU_{99}	16.4	X	139.34634	279.50460	97.04368	3.04099	0.2226236	0.27776784	2.3263840	21	2 8.1	19.5
101045 1998 QN_{100}	15.4	X	235.76611	38.57720	4.77040	5.09705	0.1857114	0.29190973	2.2506278	21	6 8.0	18.8
101046 1998 QQ_{100}	15.3	X	101.72388	351.11214	32.03092	3.51232	0.0396476	0.23145021	2.6272274	21	—	—
101047 1998 QU_{100}	16.1	X	33.35743	291.16594	53.96320	2.92573	0.1948557	0.26274228	2.4142528	21	12 15.9	19.0
101048 1998 QM_{101}	16.1	X	204.48153	296.70527	109.45660	3.56297	0.1062372	0.28944361	2.2633935	21	5 16.0	19.2
101049 1998 QD_{105}	16.2	X	63.94068	170.67509	134.25478	11.34778	0.1732182	0.26303142	2.4124832	21	11 30.5	19.8
101050 1998 QM_{105}	16.2	X	110.01035	13.08624	28.51195	5.93922	0.2128947	0.27641722	2.3339560	21	2 5.4	18.9
101051 1998 QK_{106}	16.1	X	102.92469	255.97600	34.67905	4.71691	0.2378910	0.26703014	2.3883384	21	12 22.2	20.1
101052 1998 QK_{109}	16.6	X	250.78898	323.04407	339.59118	5.64992	0.1287224	0.28587559	2.2821876	21	2 16.4	19.7
101053 1998 QN_{110}	15.4	X	39.09906	13.40057	309.54315	8.49189	0.1391752	0.21960689	2.7208551	21	11 4.1	19.0
101054 1998 QP_{110}	16.5	X	246.64260	107.42061	249.43573	2.60793	0.2063960	0.24700840	2.5157158	21	4 19.4	20.5
101055 1998 RL	16.1	X	166.70876	142.94793	177.02084	5.13409	0.2001948	0.27647188	2.3336483	21	—	—
101056 1998 RF_{1}	15.6	X	119.96107	23.80147	329.82106	5.96800	0.2258501	0.27383477	2.3486068	21	—	—
101057 1998 RD_{3}	15.1	X	182.93557	350.63790	11.23934	13.62934	0.3095720	0.23791814	2.5793940	21	3 11.7	19.8
101058 1998 RN_{3}	15.4	X	0.43520	84.45756	348.20458	21.19694	0.5157249	0.17766826	3.1337390	21	—	—
101059 1998 RR_{3}	17.0	X	34.59873	118.14754	168.52397	25.64357	0.0146220	0.38565392	1.8692650	21	9 12.5	18.5
101060 1998 RE_{4}	15.6	X	122.75490	353.64609	350.01079	13.78659	0.2378131	0.27308486	2.3529045	21	—	—
101061 1998 RL_{4}	15.8	X	276.41846	264.29840	354.47065	22.68173	0.1957220	0.28274983	2.2989762	21	1 20.4	19.8
101062 1998 RF_{5}	16.1	X	179.40646	220.46464	78.48144	4.48236	0.1304732	0.27501090	2.3419059	21	—	—
101063 1998 RB_{6}	15.3	X	158.36500	196.85503	169.31974	8.41346	0.1530886	0.23679518	2.5875424	21	2 11.3	19.3
101064 1998 RG_{8}	15.5	X	2.87474	354.99617	19.18337	3.45528	0.1852247	0.21721876	2.7407610	21	11 24.2	18.3
101065 1998 RV_{11}	15.9	X	126.14447	114.13344	180.09644	8.52785	0.2209731	0.26859395	2.3790591	21	—	—
101066 1998 RP_{13}	15.9	X	166.38421	342.03534	326.07998	0.38962	0.1461531	0.23284861	2.6166981	21	—	—
101067 1998 RJ_{14}	15.5	X	299.53190	43.93990	341.34122	4.63862	0.0758154	0.21297639	2.7770375	21	8 21.4	19.0
101068 1998 RO_{14}	15.8	X	26.44426	317.23043	357.75802	1.22594	0.1989343	0.21702095	2.7424262	21	10 17.5	18.8
101069 1998 RX_{14}	15.7	X	244.06606	99.30643	318.41211	6.43712	0.2227804	0.29656055	2.2270354	21	7 4.1	19.1
101070 1998 RY_{15}	16.3	X	98.14004	213.98255	182.07354	5.32298	0.2222042	0.27406333	2.3473009	21	1 8.1	18.5
101071 1998 RE_{17}	15.8	X	2.51156	129.21900	188.23552	3.37063	0.1927897	0.25779426	2.4450471	21	9 8.5	17.7
101072 1998 RN_{18}	16.2	X	210.12613	129.57545	200.45388	3.60533	0.2192349	0.24013133	2.5635207	21	2 15.6	20.5
101073 1998 RU_{18}	16.1	X	258.35171	253.28195	139.63480	3.13526	0.1846688	0.29470347	2.2363814	21	6 19.3	19.1
101074 1998 RY_{19}	15.6	X	134.66949	62.01312	293.34456	5.39830	0.1566619	0.27631532	2.3345297	21	—	—
101075 1998 RN_{20}	15.5	X	74.37751	188.72886	151.87962	4.33978	0.2884259	0.22514136	2.6760806	21	—	—
101076 1998 RM_{21}	15.8	X	191.63477	43.81335	261.05604	0.54402	0.0770435	0.19064694	2.9898507	21	1 5.6	20.4
101077 1998 RH_{22}	15.8	X	25.96644	227.88076	183.53173	12.32427	0.1697775	0.22528041	2.6749793	21	—	—
101078 1998 RF_{24}	16.1	X	51.55933	166.32260	140.20305	7.29418	0.2331637	0.26272871	2.4143359	21	11 25.6	19.5
101079 1998 RW_{24}	16.1	X	2.18597	36.88446	245.63693	5.51292	0.1081019	0.25314015	2.4749249	21	7 7.8	18.5
101080 1998 RB_{25}	15.3	X	305.49370	239.00435	182.44408	9.35052	0.2632917	0.21496530	2.7598818	21	9 23.3	17.7
101081 1998 RU_{25}	16.6	X	219.98217	195.24783	146.63047	5.22626	0.1867538	0.28547272	2.2843342	21	3 7.2	20.1
101082 1998 RO_{26}	15.7	X	78.43583	277.97585	73.73329	2.16676	0.2175448	0.22589871	2.6700960	21	—	—
101083 1998 RK_{27}	15.1	X	71.58244	147.38929	179.66852	13.99631	0.3118720	0.17989367	3.1078410	21	—	—
101084 1998 RV_{28}	16.3	X	172.99247	12.68374	8.06794	5.61827	0.1770450	0.28295643	2.2978571	21	3 13.9	19.8
101085 1998 RL_{29}	16.0	X	45.84912	235.35822	85.18769	3.88867	0.1984313	0.26276265	2.4141280	21	11 30.5	19.2
101086 1998 RG_{31}	14.7	X	21.49493	117.94888	241.99658	3.86521	0.1319657	0.17610532	3.1522530	21	11 20.3	18.7
101087 1998 RC_{32}	15.4	X	285.37002	46.50053	325.74173	8.11469	0.1576959	0.20921769	2.8101992	21	7 1.4	19.2
101088 1998 RD_{32}	16.0	X	176.16911	188.00955	204.89263	4.65835	0.1477414	0.28441039	2.2900189	21	3 29.2	19.3
101089 1998 RR_{32}	15.7	X	258.37890	292.27426	340.28221	3.25259	0.1486891	0.23982421	2.5657088	21	1 23.1	19.7
101090 1998 RG_{33}	15.7	X	278.36866	56.35324	8.99244	8.18346	0.2903278	0.21148914	2.7900416	21	8 13.9	19.7
101091 1998 RW_{33}	16.3	X	187.76931	359.69693	31.76356	5.92804	0.1632788	0.28583263	2.2824162	21	4 9.6	19.7
101092 1998 RE_{35}	16.7	X	84.12185	246.95603	121.74199	1.92756	0.2034252	0.27080199	2.3661094	21	—	—
101093 1998 RE_{36}	16.2	X	145.19505	40.57419	290.75113	1.63387	0.2344102	0.27530870	2.3402168	21	—	—
101094 1998 RJ_{36}	16.0	X	143.88183	65.10452	260.50800	2.48491	0.2469683	0.23147171	2.6270647	21	—	—
101095 1998 RX_{36}	16.1	X	119.73081	42.34927	314.34477	6.02902	0.1415218	0.27400926	2.3476097	21	—	—
101096 1998 RL_{37}	15.9	X	245.19293	38.07261	303.93729	4.36368	0.1974430	0.24471568	2.5314044	21	3 29.9	20.0
101097 1998 RB_{39}	16.2	X	206.74933	182.40946	147.34655	4.40160	0.2410997	0.28263669	2.2995897	21	2 9.3	20.1
101098 1998 RG_{39}	16.3	X	176.29373	123.61537	156.64313	9.77213	0.2202602	0.27457168	2.3444027	21	—	—
101099 1998 RK_{41}	15.0	X	218.47021	31.34352	340.19702	11.28707	0.0435748	0.20139027	2.8825514	21	4 18.8	19.3
101100 1998 RM_{41}	16.3	X	219.60959	316.40172	338.74957	7.14235	0.1802387	0.23746991	2.5826387	21	1 15.9	20.7
101101 1998 RO_{41}	16.6	X	255.32438	117.66689	202.10059	2.89393	0.1799229	0.28732108	2.2745268	21	3 9.8	20.0
101102 1998 RW_{41}	16.1	X	204.05640	89.73725	204.74743	4.31520	0.2565207	0.23632729	2.5909566	21	1 2.7	20.7
101103 1998 RA_{42}	15.8	X	80.64200	161.64124	227.39677	3.82766	0.3135910	0.18476636	3.0529577	21	1 11.0	19.3
101104 1998 RC_{42}	15.9	X	35.60683	133.45214	242.32358	3.44803	0.1270211	0.22250988	2.6971381	21	—	—
101105 1998 RS_{42}	16.0	X	90.10266	115.48457	289.14729	5.34560	0.1415462	0.27477097	2.3432690	21	—	—
101106 1998 RA_{43}	15.9	X	213.69361	207.55385	200.10006	8.98142	0.1249798	0.24690415	2.5164239	21	5 29.2	19.8
101107 1998 RE_{45}	15.7	X	68.28397	353.33303	342.47664	3.94489	0.0843407	0.22260289	2.6963867	21	12 23.2	19.4
101108 1998 RS_{45}	16.2	X	141.54821	60.37772	205.66035	3.28015	0.1909524	0.26833635	2.3805814	21	12 23.1	20.0
101109 1998 RZ_{45}	15.8	X	152.30322	108.16633	194.77827	4.44400	0.0783589	0.22895776	2.6462597	21	—	—
101110 1998 RV_{48}	16.0	X	197.31632	182.81169	235.22786	1.91189	0.0768746	0.24645130	2.5195055	21	5 25.8	19.7
101111 1998 RZ_{48}	15.4	X	22.79410	170.70398	195.97844	2.80715	0.2458375	0.21971310	2.7199781	21	12 27.6	18.7
101112 1998 RG_{51}	15.9	X	193.59044	24.38700	264.85734	4.04968	0.2682529	0.23440900	2.6050728	21	—	—
101113 1998 RM_{51}	16.3	X	331.88356	194.95078	124.78337	2.64351	0.2134893	0.25352318	2.4724315	21	6 24.6	18.5
101114 1998 RW_{51}	15.4	X	240.95996	45.37436	238.76716	3.26341	0.1125497	0.23766428	2.5812304	21	1 21.1	19.4
101115 1998 RX_{51}	15.3	X	130.50686	111.10030	187.53781	14.12403	0.0693583	0.22562080	2.6722882	21	—	—
101116 1998 RD_{52}	15.8	X	72.83805	229.01257	115.42402	4.24444	0.1267650	0.22403590	2.6848765	21	—	—
101117 1998 RA_{53}	16.3	X	139.84003	216.84793	167.15186	5.10267	0.2177990	0.23514394	2.5996419	21	2 22.2	20.3
101118 1998 RJ_{53}	16.4	X	25.59668	42.48161	291.06592	1.67734	0.1947097	0.26063355	2.4272574	21	11 18.4	19.1
101119 1998 RK_{53}	16.3	X	193.97753	43.19025	347.27139	9.95302	0.1343493	0.28584078	2.2823728	21	4 9.3	19.8
101120 1998 RO_{53}	15.9	X	206.80735	8.08760	315.29529	3.88045	0.1513949	0.28110867	2.3079154	21	1 30.9	19.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
101121 1998 RO_{54}	15.7	X	231.53148	131.53718	250.33201	3.77982	0.1497504	0.28937179	2.2637681	21	5 8.6	18.9
101122 1998 RR_{54}	16.3	X	79.13029	155.62655	222.24175	5.91392	0.1414745	0.27048418	2.3679624	21	—	—
101123 1998 RH_{55}	15.6	X	256.94414	331.74883	329.54881	6.98847	0.1611977	0.24146487	2.5540736	21	2 23.5	19.6
101124 1998 RD_{56}	15.9	X	123.99756	345.00429	334.66091	6.09292	0.2015004	0.22777335	2.6554255	21	—	—
101125 1998 RO_{56}	16.5	X	84.04595	105.04306	196.67697	6.37563	0.2525577	0.26525744	2.3989673	21	12 20.9	20.6
101126 1998 RC_{57}	16.2	X	219.07528	131.58815	181.83252	5.22545	0.1828411	0.28199720	2.3030650	21	1 28.7	19.9
101127 1998 RE_{57}	16.9	X	36.08055	145.64416	173.88135	4.85952	0.2170964	0.26089510	2.4256349	21	11 19.9	19.9
101128 1998 RX_{57}	16.1	X	85.54341	136.70224	155.54426	4.37829	0.1744232	0.26392588	2.4070294	21	12 5.2	19.7
101129 1998 RU_{58}	16.5	X	159.98631	71.73700	212.62016	1.31267	0.2002096	0.27207663	2.3587136	21	—	—
101130 1998 RQ_{59}	15.8	X	225.41865	57.39798	272.37680	2.08087	0.1320059	0.24028924	2.5623975	21	3 1.5	19.8
101131 1998 RW_{59}	15.4	X	129.24236	159.01897	191.86973	12.73319	0.1761492	0.23072750	2.6327107	21	—	—
101132 1998 RP_{60}	16.0	X	25.22664	149.55514	274.21113	3.92997	0.1278916	0.26828877	2.3808629	21	—	—
101133 1998 RR_{60}	16.0	X	59.61839	161.08818	270.23641	4.01372	0.2052764	0.27235857	2.3570856	21	—	—
101134 1998 RV_{60}	16.0	X	213.16609	138.33315	225.09704	5.42164	0.1997237	0.28515006	2.2860571	21	3 25.7	19.9
101135 1998 RZ_{60}	16.2	X	84.48594	193.07859	215.86023	4.95270	0.1822913	0.27339136	2.3511456	21	—	—
101136 1998 RF_{64}	15.2	X	1.73386	90.17749	5.57781	17.42972	0.0582305	0.22709727	2.6606930	21	—	—
101137 1998 RV_{64}	16.7	X	140.62106	98.41132	241.50367	0.32418	0.2734420	0.27499948	2.3419708	21	—	—
101138 1998 RY_{65}	16.5	X	174.33760	114.15172	185.99636	5.25495	0.2370993	0.27544258	2.3394584	21	—	—
101139 1998 RA_{66}	16.0	X	266.72472	173.69425	184.25576	9.25195	0.0864012	0.29102735	2.2551746	21	5 26.3	18.9
101140 1998 RY_{67}	16.4	X	111.81107	70.02955	279.67564	1.25047	0.2213296	0.22839180	2.6506296	21	—	—
101141 1998 RR_{68}	16.0	X	243.80213	29.36878	345.34201	1.63935	0.1813427	0.24659985	2.5184936	21	5 11.6	19.9
101142 1998 RQ_{69}	16.2	X	124.82978	334.53222	24.19997	2.76099	0.1874130	0.23093622	2.6311242	21	1 3.6	19.8
101143 1998 RS_{69}	15.5	X	39.42425	45.37115	10.08027	7.76918	0.1813664	0.22563118	2.6722062	21	—	—
101144 1998 RT_{69}	15.5	X	232.05225	336.01748	11.05350	7.33505	0.1970114	0.24303019	2.5430949	21	3 27.3	19.5
101145 1998 RD_{70}	15.9	X	341.76487	4.81718	86.44926	3.22557	0.1679140	0.26596614	2.3947039	21	—	—
101146 1998 RK_{70}	15.3	X	36.86072	340.91787	78.40952	5.04059	0.2710600	0.18244918	3.0787525	21	—	—
101147 1998 RS_{70}	16.0	X	269.06788	247.74136	35.12219	6.72126	0.1873847	0.28496185	2.2870636	21	2 7.6	19.5
101148 1998 RV_{70}	16.2	X	184.66653	217.29057	87.40358	4.39564	0.2204426	0.27719583	2.3295834	21	—	—
101149 1998 RY_{70}	15.7	X	165.31801	318.89787	38.45907	5.39063	0.1494333	0.23571407	2.5954483	21	2 10.7	19.7
101150 1998 RN_{71}	16.0	X	172.83592	48.87784	20.96710	6.06767	0.0548010	0.28787971	2.2715834	21	5 8.1	18.9
101151 1998 RB_{72}	15.8	X	252.51275	202.41658	165.54198	5.25247	0.1054019	0.24718133	2.5145423	21	5 21.7	19.4
101152 1998 RD_{72}	16.4	X	94.89082	329.31186	61.88948	1.25860	0.2154027	0.27301344	2.3533149	21	—	—
101153 1998 RP_{72}	14.0	X	337.40194	170.36765	178.64897	9.04476	0.1869894	0.12453722	3.9713357	21	8 14.7	18.6
101154 1998 RE_{74}	15.7	X	139.94425	87.55953	308.68276	3.96619	0.1583067	0.27885816	2.3203161	21	2 24.3	18.9
101155 1998 RM_{74}	16.0	X	194.14755	157.07420	205.38199	7.17278	0.1616141	0.28248707	2.3004016	21	3 6.9	19.7
101156 1998 RQ_{74}	15.8	X	171.37102	189.74410	197.05512	7.57818	0.2133465	0.23853659	2.5749337	21	3 24.7	20.1
101157 1998 RN_{76}	15.3	X	205.35985	284.10227	37.10113	4.33980	0.2729788	0.23794525	2.5791980	21	2 5.4	19.9
101158 1998 RA_{77}	16.4	X	234.38881	272.32808	33.01968	4.76930	0.2852306	0.28374631	2.2935906	21	2 2.1	20.5
101159 1998 RU_{77}	16.0	X	160.45808	132.09579	156.23464	5.30837	0.2827764	0.27308007	2.3529320	21	—	—
101160 1998 RW_{77}	15.4	X	223.30505	151.44628	172.58077	14.77338	0.1374517	0.23921392	2.5700708	21	2 19.9	19.5
101161 1998 RJ_{78}	16.4	X	79.38258	324.65572	87.32851	3.59190	0.1656479	0.27314199	2.3525764	21	—	—
101162 1998 RS_{78}	16.3	X	203.99312	325.68458	46.08928	4.96009	0.1953173	0.28480471	2.2879047	21	3 31.8	19.9
101163 1998 RR_{79}	16.2	X	212.01471	293.88369	48.43698	3.35070	0.2487703	0.23998555	2.5645588	21	3 6.2	20.8
101164 1998 RD_{80}	15.7	X	196.19018	231.12123	116.87710	4.93210	0.2353646	0.23849128	2.5752598	21	3 1.1	20.1
101165 1998 SS	15.4	X	311.41158	212.38623	190.67125	2.09253	0.0860781	0.21270085	2.7794353	21	9 30.9	18.8
101166 1998 ST_{1}	16.0	X	117.42745	304.94782	94.17409	5.02096	0.1633804	0.27670411	2.3323424	21	2 3.0	18.8
101167 1998 SW_{2}	15.2	X	183.99703	64.80470	297.93511	24.32701	0.1695403	0.28158104	2.3053336	21	2 17.8	19.1
101168 1998 SX_{2}	16.0	X	155.15325	78.37591	202.56981	9.79561	0.2592757	0.27106017	2.3646067	21	—	—
101169 1998 SR_{3}	15.9	X	162.38012	287.78536	19.26279	6.66464	0.2184727	0.27323926	2.3520180	21	—	—
101170 1998 SU_{3}	16.1	X	74.08343	16.05144	22.65570	2.39928	0.2102899	0.27012606	2.3700548	21	—	—
101171 1998 SA_{4}	16.0	X	20.41643	16.65614	39.27395	2.14209	0.1589757	0.26528408	2.3988067	21	—	—
101172 1998 SF_{4}	16.0	X	155.83016	329.84047	2.97188	4.22179	0.1510261	0.23162421	2.6259115	21	1 1.4	19.9
101173 1998 SY_{4}	16.1	X	329.83637	238.46445	114.35873	2.99228	0.2180569	0.25472236	2.4646656	21	8 15.4	17.7
101174 1998 SZ_{4}	16.0	X	109.40432	245.75076	125.69975	3.27936	0.1745474	0.27282292	2.3544103	21	—	—
101175 1998 SO_{6}	15.8	X	166.80231	235.75144	334.93260	4.60085	0.0137705	0.22062181	2.7125042	21	11 5.4	19.6
101176 1998 SE_{7}	16.2	X	151.88999	61.15605	201.41688	0.45075	0.1974794	0.26938267	2.3744131	21	12 27.6	20.1
101177 1998 SM_{8}	15.8	X	356.99490	275.06150	185.80981	1.97883	0.1644542	0.26819062	2.3814438	21	—	—
101178 1998 SY_{8}	16.2	X	108.16413	95.66640	150.83251	1.31223	0.0299090	0.21463086	2.7627480	21	10 12.4	20.1
101179 1998 SA_{9}	16.1	X	73.47846	1.31591	61.75908	0.93147	0.1829391	0.18675900	3.0312030	21	1 23.4	19.7
101180 1998 SH_{9}	15.4	X	6.31720	234.89845	186.24063	4.80988	0.0913075	0.22226699	2.6991027	21	—	—
101181 1998 SZ_{9}	15.0	X	177.92874	193.30916	248.14956	24.89625	0.1869503	0.28925656	2.2643692	21	6 4.3	18.6
101182 1998 SY_{10}	15.8	X	198.64100	112.88413	213.63577	3.31786	0.2542062	0.23899379	2.5716487	21	2 3.6	20.4
101183 1998 SR_{11}	16.4	X	150.06938	174.26817	112.04484	4.78261	0.1393481	0.27018312	2.3697211	21	—	—
101184 1998 SP_{12}	15.0	X	140.70765	120.40700	289.45136	24.79900	0.1943615	0.28026477	2.3125460	21	3 4.4	19.0
101185 1998 SS_{12}	16.0	X	83.55926	190.52636	263.89992	19.85108	0.0586545	0.36568506	1.9367099	21	1 14.5	17.8
101186 1998 SD_{13}	16.3	X	184.54099	125.99781	146.27931	7.10504	0.1107803	0.27127687	2.3633473	21	—	—
101187 1998 SV_{13}	16.0	X	182.83378	353.77820	32.61851	4.13840	0.2673216	0.24129985	2.5552379	21	4 5.4	20.6
101188 1998 SP_{14}	15.7	X	316.64362	215.43049	130.51922	10.11459	0.3089124	0.21135304	2.7912392	21	6 17.9	18.8
101189 1998 SW_{19}	16.5	X	96.02405	219.49617	192.36027	0.61502	0.1783792	0.23368401	2.6104581	21	1 30.9	19.5
101190 1998 SJ_{23}	16.2	X	183.82013	215.75440	154.05034	6.86961	0.1409885	0.28257816	2.2999073	21	3 8.2	19.4
101191 1998 SL_{23}	14.8	X	180.43681	130.93361	164.11197	13.39606	0.1658505	0.23203630	2.6228015	21	—	—
101192 1998 SO_{23}	15.7	X	223.21065	177.61719	157.09023	10.10904	0.1663369	0.24063241	2.5599607	21	3 6.1	19.9
101193 1998 SY_{23}	16.0	X	146.47497	308.23876	68.14295	3.83027	0.1995117	0.27846792	2.3224833	21	2 13.5	19.3
101194 1998 SO_{24}	16.4	X	142.95441	255.32281	126.24923	3.39308	0.2028355	0.27858910	2.3218098	21	2 15.6	19.5
101195 1998 SV_{25}	15.9	X	273.80869	262.22046	68.31943	4.54266	0.1761296	0.28910572	2.2651568	21	4 14.8	19.1
101196 1998 SM_{26}	15.2	X	38.76487	70.96637	318.14435	1.06335	0.1801690	0.17893327	3.1189518	21	—	—
101197 1998 SH_{27}	16.0	X	30.65864	298.98316	96.98973	6.00684	0.2081810	0.26382572	2.4076386	21	—	—
101198 1998 SK_{30}	16.8	X	278.93519	240.38150	19.19140	1.52518	0.1088413	0.23807509	2.5782602	21	1 31.9	20.5
101199 1998 SG_{32}	15.5	X	4.52182	83.76333	2.96076	6.11123	0.1555838	0.22564294	2.6721134	21	—	—
101200 1998 SH_{32}	17.0	X	3.68083	101.39336	198.71906	21.38991	0.0695912	0.38158451	1.8825314	21	8 7.7	19.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
101201 1998 SS_{33}	16.2	X	154.53587	95.00987	203.49486	9.75341	0.2586714	0.27318924	2.3523051	21	—	—
101202 1998 SN_{36}	16.0	X	280.56293	261.00532	7.77885	5.24994	0.1638447	0.24031522	2.5622128	21	2 8.9	19.8
101203 1998 SH_{39}	15.9	X	138.09827	68.44266	358.97169	1.93607	0.0676018	0.24058049	2.5603290	21	3 29.5	19.3
101204 1998 SV_{42}	16.5	X	136.65567	181.90565	134.21590	4.37537	0.2071261	0.27169436	2.3609256	21	—	—
101205 1998 SV_{46}	15.9	X	113.31765	294.07673	26.99163	3.87196	0.0625685	0.22313645	2.6920867	21	—	—
101206 1998 SX_{46}	16.0	X	272.00642	198.44002	195.25704	2.08616	0.0630144	0.20655435	2.8343044	21	7 25.2	19.7
101207 1998 SB_{47}	15.3	X	9.90531	179.06970	201.98123	5.58137	0.0567665	0.21723837	2.7405960	21	11 30.7	18.9
101208 1998 SF_{48}	15.7	X	76.75760	5.40485	13.11091	7.09475	0.1410207	0.26871534	2.3783426	21	—	—
101209 1998 SL_{48}	15.6	X	245.48372	120.18095	21.74090	9.17383	0.0919684	0.21557539	2.7546722	21	11 4.5	19.3
101210 1998 SW_{50}	15.3	X	124.42124	26.76726	16.02500	5.63430	0.0845861	0.19019281	2.9946080	21	2 21.6	19.6
101211 1998 SF_{51}	16.2	X	115.76248	168.44960	204.22156	6.10707	0.1265947	0.27274651	2.3548500	21	—	—
101212 1998 SK_{51}	15.8	X	143.58190	340.69533	13.62784	12.25605	0.1961361	0.23150681	2.6267992	21	1 23.4	19.9
101213 1998 SZ_{51}	15.2	X	249.22203	2.77763	282.86635	0.95933	0.0769910	0.19494209	2.9457709	21	2 9.8	19.6
101214 1998 SF_{52}	15.9	X	254.39053	213.32112	356.27105	3.75806	0.1083722	0.22935633	2.6431931	21	—	—
101215 1998 SC_{53}	15.6	X	211.26294	104.60637	19.48296	4.26687	0.0514547	0.20939982	2.8085695	21	9 9.0	19.6
101216 1998 SG_{53}	16.3	X	116.20168	45.73373	25.53047	4.76696	0.1785882	0.19159845	2.9799436	21	3 29.6	20.6
101217 1998 SG_{54}	15.4	X	250.83232	304.41399	356.68240	12.34212	0.1555002	0.24089162	2.5581240	21	2 21.5	19.4
101218 1998 SR_{54}	15.2	X	170.29141	92.65010	187.98474	12.17870	0.1722393	0.22946683	2.6423445	21	—	—
101219 1998 SM_{55}	15.3	X	307.33465	35.85788	2.67995	3.17258	0.1728163	0.21302608	2.7766056	21	9 8.2	18.3
101220 1998 ST_{57}	15.9	X	337.59207	212.25961	100.47061	2.23385	0.1870050	0.25281579	2.4770414	21	6 30.1	17.9
101221 1998 SB_{62}	16.1	X	246.20878	46.71219	316.09514	5.89550	0.1374372	0.28922455	2.2645362	21	4 27.3	19.4
101222 1998 SQ_{62}	15.9	X	135.39143	224.55920	199.12483	10.24317	0.1164158	0.23762464	2.5815175	21	3 27.0	19.4
101223 1998 SW_{62}	16.1	X	156.64411	313.73235	7.99485	6.47683	0.1282734	0.27359928	2.3499543	21	—	—
101224 1998 ST_{64}	15.7	X	66.34071	302.93039	92.41286	3.53594	0.1699273	0.26903671	2.3764482	21	—	—
101225 1998 SO_{65}	15.5	X	189.08574	254.87032	88.54049	4.70212	0.1640345	0.27937979	2.3174270	21	2 10.3	19.0
101226 1998 SY_{66}	15.7	X	210.27183	201.56297	123.51141	4.92363	0.1811567	0.23675340	2.5878468	21	2 11.8	20.0
101227 1998 SX_{68}	16.2	X	241.46987	221.19206	129.02963	6.84020	0.1327893	0.28845905	2.2685409	21	4 11.7	19.5
101228 1998 SN_{69}	16.2	X	176.68008	6.97537	297.68006	7.85469	0.1724660	0.27591409	2.3367924	21	—	—
101229 1998 SJ_{71}	15.7	X	113.46218	318.44916	24.45335	6.56407	0.2481139	0.27101626	2.3648621	21	—	—
101230 1998 SV_{72}	16.0	X	203.93888	242.59770	81.56151	2.36278	0.1770284	0.27950958	2.3167096	21	1 30.7	19.6
101231 1998 SZ_{74}	15.7	X	125.27532	202.05715	119.87460	3.44696	0.2038976	0.22677426	2.6632190	21	—	—
101232 1998 SU_{75}	15.8	X	225.36346	161.63838	244.42117	4.73189	0.1340555	0.24723277	2.5141935	21	6 6.9	19.4
101233 1998 SF_{76}	16.1	X	30.45924	127.81554	270.37926	5.73028	0.1076163	0.26784758	2.3834767	21	—	—
101234 1998 SE_{77}	15.7	X	190.99195	74.89798	230.34614	4.37468	0.1261169	0.23417695	2.6067934	21	—	—
101235 1998 SB_{78}	16.8	X	135.57851	122.12233	272.57035	2.05798	0.1719972	0.27900813	2.3194845	21	2 19.0	19.8
101236 1998 SV_{78}	16.2	X	280.34330	96.55888	221.39944	2.85163	0.1461861	0.24637226	2.5200443	21	4 11.3	19.7
101237 1998 SE_{79}	16.2	X	172.49211	270.37980	139.10141	7.07537	0.0994305	0.28570567	2.2830923	21	4 16.9	19.4
101238 1998 SQ_{79}	15.6	X	177.03784	325.00212	6.40303	14.46374	0.1577890	0.23515878	2.5995325	21	1 24.9	19.9
101239 1998 SD_{80}	16.1	X	60.28356	93.00309	311.77837	3.53158	0.1542438	0.27066600	2.3669018	21	—	—
101240 1998 SG_{81}	16.3	X	246.39739	22.47084	312.08206	1.14511	0.1356624	0.24362021	2.5389872	21	3 27.9	20.0
101241 1998 SZ_{81}	16.0	X	139.12065	241.59899	202.93782	5.96186	0.0603186	0.28549541	2.2842132	21	4 17.4	18.6
101242 1998 SO_{82}	15.5	X	48.27731	22.32785	339.69250	7.54983	0.1765012	0.22203978	2.7009437	21	—	—
101243 1998 SW_{82}	16.5	X	207.63412	76.42301	245.26508	3.82783	0.2375930	0.28137744	2.3064455	21	1 30.3	20.4
101244 1998 SS_{83}	16.0	X	217.47624	173.82952	213.34903	1.20085	0.1786103	0.24482682	2.5306382	21	5 3.6	20.1
101245 1998 SD_{84}	15.8	X	266.43536	129.41982	170.63536	7.96607	0.1116820	0.24231252	2.5481138	21	3 8.2	19.3
101246 1998 SS_{87}	16.5	X	103.02611	117.15410	283.75320	1.73039	0.1755070	0.27491164	2.3424696	21	1 16.0	18.6
101247 1998 SV_{87}	16.0	X	11.95819	210.50042	202.82270	6.38756	0.1101525	0.26572070	2.3961783	21	—	—
101248 1998 ST_{88}	16.2	X	170.17668	162.07043	198.95460	7.25314	0.1002693	0.23700191	2.5860375	21	2 11.4	20.1
101249 1998 SQ_{89}	16.1	X	202.06665	301.66500	359.89862	4.49669	0.1637113	0.23535750	2.5980690	21	1 8.1	20.3
101250 1998 SR_{91}	15.9	X	53.86941	78.52870	319.86967	4.18197	0.1481125	0.26875374	2.3781160	21	—	—
101251 1998 SE_{92}	15.3	X	47.39792	331.12118	341.67765	4.71643	0.0500381	0.21601510	2.7509328	21	10 21.1	19.1
101252 1998 SO_{92}	16.0	X	243.94674	163.81279	216.13061	2.62241	0.0922009	0.24703744	2.5155186	21	5 28.1	19.4
101253 1998 SG_{93}	15.7	X	123.78389	10.76696	8.48211	2.58360	0.1864093	0.18916167	3.0054808	21	2 4.5	20.2
101254 1998 SK_{93}	16.1	X	160.00609	79.00323	5.88083	6.33554	0.1042880	0.28719453	2.2751949	21	5 16.2	19.2
101255 1998 SY_{93}	16.6	X	47.20608	254.13846	135.61368	1.86327	0.1905036	0.26742092	2.3860111	21	—	—
101256 1998 SA_{95}	15.2	X	190.52077	227.57500	43.40639	6.18969	0.2573271	0.23197725	2.6232466	21	—	—
101257 1998 SE_{95}	16.2	X	152.77662	243.14619	56.30539	5.14499	0.1637609	0.27247630	2.3564066	21	—	—
101258 1998 SF_{97}	15.8	X	175.32959	335.60761	29.13212	3.68429	0.2821093	0.28073793	2.3099469	21	3 3.1	19.7
101259 1998 SA_{98}	15.7	X	140.38232	332.67902	24.44149	4.86019	0.0777379	0.23227400	2.6210119	21	1 5.0	19.4
101260 1998 SU_{98}	15.5	X	349.83524	340.82663	17.99676	2.95789	0.0869349	0.21414469	2.7669279	21	10 3.2	18.5
101261 1998 SS_{102}	16.5	X	328.87415	295.34041	36.42019	2.53800	0.1863773	0.25299313	2.4758836	21	7 12.3	18.7
101262 1998 SU_{104}	15.6	X	161.68997	283.96657	40.86225	8.67792	0.0935064	0.27503715	2.3417569	21	—	—
101263 1998 SU_{105}	16.7	X	178.23425	236.42316	127.43736	1.72152	0.2112163	0.28083979	2.3093883	21	2 27.4	20.2
101264 1998 SW_{105}	15.0	X	62.97654	221.14692	178.14693	11.29723	0.1471505	0.18336592	3.0684824	21	—	—
101265 1998 SX_{105}	16.4	X	132.82270	353.86119	45.76332	3.37081	0.2042774	0.23497668	2.6008753	21	3 6.9	20.3
101266 1998 SJ_{107}	16.1	X	237.03585	101.31236	201.12772	2.90941	0.1939194	0.23895793	2.5719060	21	2 5.2	20.3
101267 1998 SU_{107}	16.4	X	54.82846	113.35540	271.46992	1.79987	0.1660623	0.26749410	2.3855759	21	—	—
101268 1998 SJ_{110}	15.7	X	89.89864	177.68333	246.69522	2.89916	0.2166819	0.27470500	2.3436442	21	2 2.4	17.9
101269 1998 SS_{110}	15.7	X	169.84237	75.12740	245.06491	2.36738	0.2384674	0.23267314	2.6180135	21	1 6.3	19.9
101270 1998 SQ_{111}	16.2	X	238.28320	353.52125	17.62091	8.05255	0.1495604	0.28855377	2.2680444	21	4 30.1	19.5
101271 1998 SU_{111}	16.1	X	332.89381	279.98261	161.82579	2.86984	0.1779022	0.26281660	2.4137976	21	—	—
101272 1998 SN_{113}	15.8	X	98.60066	174.23490	143.12451	5.85257	0.1465291	0.22364979	2.6879657	21	—	—
101273 1998 SO_{113}	15.3	X	185.22615	158.93605	168.21478	12.77977	0.1315737	0.23467113	2.6031325	21	1 19.5	19.5
101274 1998 SC_{114}	16.4	X	99.09225	299.93920	68.27074	3.52269	0.2492394	0.27152228	2.3619230	21	—	—
101275 1998 SF_{115}	15.0	X	30.18226	354.87940	14.45576	9.64460	0.1525683	0.21982671	2.7190409	21	12 27.5	18.7
101276 1998 SN_{115}	15.7	X	209.32746	298.85964	13.48226	14.19098	0.1395566	0.23566286	2.5958243	21	1 31.3	20.1
101277 1998 SS_{115}	15.6	X	159.13247	1.71876	358.96182	6.40077	0.1829140	0.27782456	2.3260674	21	2 5.3	19.0
101278 1998 SS_{116}	15.4	X	228.88556	37.98506	274.53860	4.28215	0.2351975	0.23895369	2.5719364	21	2 9.2	19.9
101279 1998 SX_{116}	16.2	X	144.02959	47.33445	264.93941	4.49878	0.2476056	0.27224425	2.3577454	21	—	—
101280 1998 SD_{117}	16.1	X	232.96249	76.73604	284.60654	3.99728	0.1549806	0.28658958	2.2783955	21	4 11.1	19.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
101281 1998 SP_{117}	16.3	X	80.95154	160.41959	249.48972	2.57489	0.1644872	0.27246521	2.3564705	21	—	—
101282 1998 SC_{118}	16.5	X	111.05573	104.61175	245.68671	1.25129	0.2085994	0.27124613	2.3635258	21	—	—
101283 1998 SJ_{118}	14.1	X	252.14044	116.13162	16.06106	32.37647	0.2705355	0.21370043	2.7707614	21	10 8.6	18.2
101284 1998 SH_{119}	15.2	X	34.53122	315.35206	65.46279	1.42309	0.2089184	0.17717698	3.1395291	21	—	—
101285 1998 SC_{124}	15.6	X	11.45838	39.21681	23.71315	9.69615	0.1098769	0.22258321	2.6965457	21	—	—
101286 1998 SF_{124}	15.8	X	252.99608	300.98900	19.75186	12.36961	0.2809798	0.24308793	2.5426922	21	3 11.9	20.3
101287 1998 SP_{124}	16.1	X	161.18608	187.44071	180.31992	4.54460	0.2216827	0.23536491	2.5980145	21	2 21.9	20.4
101288 1998 SA_{125}	15.5	X	102.62716	205.35424	118.98357	2.86997	0.1542729	0.22438484	2.6820922	21	—	—
101289 1998 SL_{125}	16.3	X	57.33915	6.06358	63.97509	4.22192	0.2277502	0.27117238	2.3639543	21	—	—
101290 1998 SO_{125}	16.1	X	207.69593	292.30741	72.84849	4.58155	0.1752384	0.24089953	2.5580680	21	3 31.0	20.3
101291 1998 SP_{125}	16.1	X	217.79125	224.18632	156.91455	6.06799	0.1469731	0.28681329	2.2772106	21	4 26.5	19.5
101292 1998 SM_{126}	16.3	X	237.30936	145.48294	146.23740	7.03635	0.0941491	0.28004516	2.3137548	21	1 20.5	19.6
101293 1998 SS_{126}	15.3	X	178.64156	139.50929	170.21856	14.83198	0.1338232	0.23193805	2.6235422	21	—	—
101294 1998 SW_{126}	15.7	X	317.19252	215.93900	153.74510	8.66245	0.2358836	0.21118018	2.7927622	21	8 4.7	18.4
101295 1998 SB_{127}	15.6	X	280.39668	249.92678	52.76657	7.15160	0.1432253	0.28694980	2.2764883	21	3 21.9	18.7
101296 1998 SE_{127}	15.8	X	177.53594	346.27072	47.79752	6.54494	0.2111344	0.23975545	2.5661994	21	4 9.9	20.1
101297 1998 SZ_{127}	16.8	X	99.66057	262.76136	84.49641	3.06799	0.2177513	0.26978138	2.3720731	21	—	—
101298 1998 SE_{128}	16.2	X	45.60269	292.68850	125.27144	2.89053	0.1913535	0.26882958	2.3776688	21	—	—
101299 1998 SL_{129}	15.9	X	127.96176	195.99968	173.51411	2.54798	0.1762735	0.27464744	2.3439716	21	1 9.2	18.7
101300 1998 SV_{129}	16.1	X	322.90066	164.44993	184.01311	2.74872	0.2230137	0.25333538	2.4736533	21	7 19.3	18.2
101301 1998 SH_{130}	15.4	X	229.37601	303.04357	18.28735	15.16059	0.1423005	0.23881022	2.5729664	21	3 2.1	19.6
101302 1998 SA_{131}	15.2	X	214.84749	262.58904	5.71719	9.54502	0.0045432	0.22887401	2.6469052	21	—	—
101303 1998 SE_{133}	16.2	X	136.19029	37.30035	279.32569	1.71681	0.1798063	0.27073177	2.3665185	21	—	—
101304 1998 SJ_{133}	16.2	X	61.42579	35.41801	338.76315	1.99431	0.1734160	0.26685863	2.3893616	21	—	—
101305 1998 SL_{133}	16.1	X	23.58102	193.94270	235.13394	1.95524	0.2091402	0.26676996	2.3898910	21	—	—
101306 1998 SM_{133}	15.8	X	351.41104	254.33344	208.85214	4.30106	0.1985798	0.26643777	2.3918771	21	—	—
101307 1998 SU_{133}	15.9	X	24.03485	10.84640	5.91477	2.72995	0.1718672	0.21927925	2.7235647	21	12 31.2	19.4
101308 1998 SX_{133}	14.9	X	301.59108	51.87206	17.76016	25.48591	0.1680698	0.21375979	2.7702483	21	10 11.7	18.1
101309 1998 SZ_{135}	16.3	X	55.38561	256.12091	123.39128	3.09120	0.1935183	0.26683867	2.3894807	21	—	—
101310 1998 SJ_{136}	16.7	X	92.61940	247.94813	94.16269	3.42359	0.1959018	0.26832748	2.3806339	21	—	—
101311 1998 SA_{138}	16.4	X	111.69830	162.39421	186.05356	5.68080	0.1730613	0.27075068	2.3664083	21	—	—
101312 1998 SO_{138}	15.6	X	97.71051	217.19076	199.88929	11.25424	0.2059011	0.23138441	2.6277255	21	2 10.9	19.1
101313 1998 SA_{142}	15.2	X	28.90218	269.98369	80.24160	5.92221	0.1737430	0.21786944	2.7353013	21	12 3.8	18.4
101314 1998 SD_{142}	16.3	X	99.47997	320.21170	65.92219	6.20759	0.0940268	0.27267305	2.3552729	21	—	—
101315 1998 SL_{143}	15.2	X	48.87236	184.15818	195.27212	9.01129	0.2145326	0.22238996	2.6981076	21	—	—
101316 1998 SS_{145}	16.4	X	151.84415	303.10700	22.02363	2.64709	0.2201743	0.27358788	2.3500196	21	—	—
101317 1998 SD_{149}	16.1	X	316.57249	271.95226	86.96923	3.15113	0.2072829	0.25425926	2.4676574	21	7 26.4	18.2
101318 1998 SJ_{151}	16.5	X	142.58717	320.67885	17.93358	5.51244	0.1838119	0.23124684	2.6287675	21	—	—
101319 1998 SW_{152}	17.0	X	131.45799	33.33353	341.59762	4.28334	0.2305340	0.27585638	2.3371183	21	1 29.7	20.0
101320 1998 SY_{153}	16.1	X	65.89442	72.10789	48.76570	7.55056	0.2136301	0.27883879	2.3204235	21	3 17.6	18.0
101321 1998 SP_{154}	15.4	X	77.04955	31.34425	319.78085	3.59461	0.1238389	0.22374751	2.6871830	21	—	—
101322 1998 SA_{155}	15.4	X	103.99870	127.58374	214.07966	3.10209	0.2252789	0.22655075	2.6649704	21	—	—
101323 1998 SO_{155}	16.2	X	130.15734	234.20851	72.39001	5.28061	0.1426235	0.26972008	2.3724325	21	—	—
101324 1998 SC_{157}	16.5	X	236.09310	290.97781	15.72054	3.10238	0.2441423	0.28305039	2.2973485	21	2 5.0	20.3
101325 1998 SO_{159}	15.4	X	82.76838	256.25034	83.80290	2.72246	0.1167439	0.17946671	3.1127682	21	—	—
101326 1998 SS_{159}	16.4	X	320.62954	221.20546	125.30882	3.56811	0.1759150	0.25281645	2.4770370	21	7 19.2	18.6
101327 1998 SW_{161}	16.6	X	130.60282	292.98926	82.63608	3.04354	0.2140888	0.27552567	2.3389881	21	1 27.1	19.5
101328 1998 SJ_{162}	16.4	X	72.64460	190.77032	206.91759	4.87125	0.3187164	0.26956781	2.3733258	21	—	—
101329 1998 SZ_{162}	14.8	X	19.25100	158.10213	199.18177	14.01810	0.1190548	0.17281946	3.1920838	21	11 13.0	18.9
101330 1998 SS_{163}	15.0	X	56.73037	347.61209	42.65061	13.29891	0.1676956	0.22368119	2.6877141	21	—	—
101331 Sjöström	16.0	X	349.30771	222.26817	29.21971	21.87374	0.0513221	0.37285659	1.9117958	21	4 18.3	17.2
101332 1998 SB_{168}	15.8	X	140.07275	0.83182	311.66072	7.26037	0.1318120	0.27127979	2.3633303	21	—	—
101333 1998 SC_{168}	15.1	X	182.18542	200.29374	131.18119	8.83978	0.2216845	0.23653482	2.5894409	21	1 28.1	19.3
101334 1998 SE_{169}	16.7	X	269.48923	123.51324	177.87838	11.87656	0.2579609	0.28678746	2.2773473	21	2 20.9	20.5
101335 1998 SK_{171}	16.4	X	104.73898	230.38906	189.10011	1.81203	0.2141542	0.27439407	2.3454143	21	2 19.9	19.0
101336 1998 TN_{1}	15.5	X	69.89099	293.98647	34.14660	5.86601	0.0885793	0.21893618	2.7264091	21	12 14.8	19.3
101337 1998 TD_{2}	15.0	X	137.01434	42.59940	17.29528	10.65236	0.0956140	0.19357454	2.9596287	21	3 28.8	19.2
101338 1998 TM_{2}	15.8	X	122.60465	185.11916	238.50388	4.17879	0.0787102	0.23519689	2.5992517	21	3 5.6	19.4
101339 1998 TS_{2}	16.2	X	168.62168	352.17063	327.09612	2.08709	0.1340616	0.23018491	2.6368463	21	—	—
101340 1998 TN_{4}	15.6	X	351.42022	313.54986	327.93337	1.34315	0.0261792	0.20596577	2.8397014	21	6 20.8	19.3
101341 1998 TA_{7}	15.7	X	200.25175	354.11624	6.90160	9.65760	0.0897230	0.24074069	2.5591931	21	3 17.5	19.4
101342 1998 TA_{10}	14.7	X	114.36547	305.28475	36.34177	8.09477	0.1485516	0.18230113	3.0804191	21	—	—
101343 1998 TL_{10}	15.7	X	38.58088	274.53456	179.92217	0.16087	0.1759566	0.27035983	2.3686884	21	—	—
101344 1998 TG_{12}	15.5	X	356.08723	200.67448	208.20563	4.35946	0.1293915	0.21816539	2.7328270	21	12 23.6	18.6
101345 1998 TQ_{12}	16.0	X	181.07634	286.53656	33.37384	7.39400	0.1116990	0.27443599	2.3451754	21	—	—
101346 1998 TY_{15}	14.5	X	321.39238	269.80719	217.57915	22.57526	0.2477203	0.17755650	3.1350538	21	—	—
101347 1998 TZ_{15}	15.8	X	128.45984	52.89965	227.11575	6.32015	0.0947885	0.26360016	2.4090118	21	12 27.0	19.4
101348 1998 TG_{17}	15.5	X	59.72977	90.22812	225.23690	4.39332	0.2569056	0.26204739	2.4185189	21	12 16.2	19.1
101349 1998 TA_{19}	16.4	X	302.60588	92.38155	347.47187	1.56281	0.1772914	0.25781600	2.4449096	21	11 5.5	18.5
101350 1998 TE_{20}	15.2	X	96.79414	285.13401	27.67346	11.29144	0.0682044	0.22020049	2.7159631	21	12 24.5	19.3
101351 1998 TM_{29}	15.4	X	229.65709	139.63380	354.81535	1.25515	0.1286590	0.16912954	3.2383447	21	9 29.5	20.3
101352 1998 TT_{33}	16.3	X	120.26210	304.19282	63.07727	3.86313	0.2498984	0.27296998	2.3535646	21	1 8.6	19.0
101353 1998 TC_{34}	16.1	X	117.01647	275.11806	95.73868	3.45202	0.2238590	0.27285897	2.3542029	21	1 4.4	18.8
101354 1998 TB_{35}	15.3	X	194.48762	316.39936	45.24760	5.31424	0.2412607	0.23834233	2.5763326	21	3 16.8	19.9
101355 1998 TS_{35}	16.4	X	0.80818	135.95525	278.39919	1.42301	0.1946890	0.26225082	2.4172680	21	—	—
101356 1998 TD_{36}	15.9	X	189.75901	359.99707	15.07112	1.88632	0.1209969	0.19624817	2.9326865	21	3 28.3	20.4
101357 1998 TL_{37}	16.2	X	142.72428	346.14457	44.76225	14.05261	0.1760693	0.23391183	2.6087628	21	3 9.3	20.4
101358 1998 TQ_{37}	15.9	X	204.83584	288.67789	48.99653	5.42763	0.1444218	0.23788423	2.5796391	21	2 23.7	20.1
101359 1998 TD_{38}	15.4	X	196.72774	316.84669	44.30372	13.32906	0.1832684	0.23777464	2.5804317	21	3 21.1	19.8
101360 1998 UH	14.2	X	50.99458	29.79013	323.11816	25.49599	0.3408484	0.17620253	3.1510935	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
101361 1998 *UJ*	15.4	X	87.39090	128.27315	335.67787	24.45966	0.2298784	0.27593453	2.3366770	21	3 20.1	18.2
101362 1998 *UP*	16.5	X	145.52118	145.12181	228.21908	5.02703	0.2062240	0.27693374	2.3310530	21	2 5.9	19.8
101363 1998 *UQ*	15.7	X	153.70332	303.83628	37.15912	9.92265	0.3339939	0.27721733	2.3294629	21	1 22.2	19.6
101364 1998 *US*	15.2	X	126.47711	54.80779	226.05228	12.78233	0.2900921	0.26823797	2.3811635	21	12 27.9	19.7
101365 1998 *UT*	16.2	X	60.97936	228.90341	306.77418	18.25250	0.0465787	0.37376834	1.9086855	21	4 8.2	18.4
101366 1998 *UY*	15.0	X	56.45121	4.36203	36.21518	6.59395	0.0724719	0.18076743	3.0978182	21	—	—
101367 1998 UB_1	16.1	X	288.81580	151.51211	202.03400	0.50426	0.2211183	0.20539084	2.8449983	21	5 31.4	20.0
101368 1998 UW_2	15.6	X	245.42480	327.56664	22.32849	5.63492	0.1816648	0.24304969	2.5429588	21	4 12.4	19.6
101369 1998 UY_3	15.8	X	225.35303	325.83673	239.84312	4.11855	0.1208000	0.22217333	2.6998611	21	12 28.4	19.6
101370 1998 UM_4	16.1	X	66.89107	156.19883	173.44181	4.85392	0.2416340	0.26708743	2.3879968	21	—	—
101371 1998 UT_5	16.3	X	32.90200	320.63862	105.28736	3.29648	0.1842928	0.26729959	2.3867331	21	—	—
101372 1998 UD_6	15.4	X	206.18966	183.85811	85.61566	5.40569	0.0749281	0.22788943	2.6545236	21	—	—
101373 1998 UV_8	16.8	X	163.05012	187.70649	204.49139	1.74004	0.2145668	0.28047355	2.3113982	21	3 20.8	20.3
101374 1998 UT_9	15.8	X	343.77021	247.39377	199.77018	1.62706	0.0574105	0.22374955	2.6871667	21	—	—
101375 1998 UA_{10}	16.1	X	31.94195	223.21002	269.12871	2.34408	0.0288603	0.23239051	2.6201357	21	1 26.6	19.3
101376 1998 UY_{10}	15.8	X	302.08415	14.10074	41.16629	9.48163	0.1442448	0.21172126	2.7880020	21	9 29.7	19.1
101377 1998 UB_{12}	16.1	X	62.59574	218.97828	182.97027	2.72269	0.0376185	0.22507594	2.6765991	21	—	—
101378 1998 UP_{12}	16.5	X	211.58759	298.08710	30.94370	2.25334	0.1471781	0.23665142	2.5885902	21	2 17.9	20.5
101379 1998 UE_{16}	16.0	X	53.55798	26.55168	62.80979	7.22167	0.1937900	0.27183587	2.3601062	21	—	—
101380 1998 UT_{17}	16.2	X	153.70251	4.58375	332.31629	1.64488	0.2266606	0.27483751	2.3428908	21	1 4.2	19.6
101381 1998 UU_{19}	15.7	X	140.15004	136.37864	233.99266	11.01880	0.1837609	0.27544585	2.3394399	21	1 23.0	19.1
101382 1998 UN_{21}	15.8	X	166.59239	263.12403	61.88730	7.58168	0.1428566	0.27548375	2.3392253	21	—	—
101383 Karloff	15.6	X	142.29744	50.11843	303.32379	13.39418	0.1185963	0.27389867	2.3482416	21	—	—
101384 1998 UW_{23}	15.9	X	168.49652	290.54524	124.26934	5.98649	0.2343395	0.23975614	2.5661944	21	4 29.6	20.3
101385 1998 UB_{24}	16.1	X	205.33808	277.19147	95.04673	6.04646	0.1519146	0.28396082	2.2924354	21	4 4.1	19.7
101386 1998 UW_{26}	15.3	X	200.50003	228.96858	113.91203	4.95801	0.2098642	0.23676878	2.5877348	21	2 26.1	19.6
101387 1998 UE_{28}	15.2	X	183.86287	183.90212	225.09170	12.69955	0.2948371	0.24035366	2.5619396	21	5 2.9	19.9
101388 1998 UA_{31}	15.3	X	85.45426	202.08822	89.83219	24.21519	0.1999604	0.26171382	2.4205735	21	12 8.3	19.1
101389 1998 UQ_{33}	15.7	X	221.66975	299.61739	70.13547	6.33241	0.2631235	0.24333126	2.5409968	21	4 15.2	20.3
101390 1998 UV_{33}	15.7	X	116.73460	112.07051	248.15882	5.49603	0.1394296	0.27257732	2.3558244	21	—	—
101391 1998 UM_{34}	16.3	X	125.24235	283.49413	64.58059	5.94071	0.2643866	0.27322919	2.3520758	21	—	—
101392 1998 UW_{34}	16.2	X	336.02602	217.04343	226.68787	3.99337	0.1609203	0.26288034	2.4134074	21	—	—
101393 1998 UD_{36}	16.5	X	125.56632	41.09138	14.56064	1.22420	0.1913665	0.27799058	2.3251412	21	3 10.9	19.4
101394 1998 UL_{38}	16.0	X	19.49459	346.20648	77.96693	3.75292	0.1667785	0.26599119	2.3945535	21	—	—
101395 1998 UB_{39}	16.1	X	135.28849	356.99033	33.40291	7.65155	0.2075624	0.27691426	2.3311622	21	2 22.7	19.4
101396 1998 UE_{39}	16.9	X	52.01812	314.64660	100.40345	0.18338	0.2025272	0.26876451	2.3780525	21	—	—
101397 1998 UG_{39}	16.2	X	107.45795	331.81953	42.30566	3.19910	0.2112416	0.27221728	2.3579011	21	—	—
101398 1998 UR_{39}	15.5	X	187.14949	161.06301	222.99691	3.02162	0.1833053	0.23939454	2.5687779	21	4 2.6	19.8
101399 1998 UV_{39}	14.6	X	100.25110	309.46879	28.61504	12.30457	0.1383723	0.18054534	3.1003581	21	—	—
101400 1998 UQ_{41}	16.3	X	245.97714	271.24602	91.18896	4.92240	0.1861140	0.24473173	2.5312937	21	4 30.1	20.2
101401 1998 *VD*	16.1	X	98.43517	352.83199	36.29256	3.31335	0.2255182	0.27144225	2.3623872	21	1 1.1	18.3
101402 1998 VG_1	15.8	X	211.26265	274.09358	61.72717	8.42138	0.2993346	0.28178411	2.3042259	21	2 24.8	20.1
101403 1998 VS_2	15.7	X	3.74368	335.90627	48.23446	4.55267	0.0990933	0.21552025	2.7551421	21	11 28.8	19.0
101404 1998 VY_2	15.1	X	104.36183	86.15897	51.86839	9.50556	0.0531342	0.19650932	2.9300877	21	5 20.1	19.1
101405 1998 VJ_3	13.0	X	342.23745	158.22957	234.25409	6.55120	0.0719986	0.08398371	5.1642354	21	10 13.9	19.5
101406 1998 VL_3	15.8	X	252.66291	21.44553	43.08089	2.19634	0.0673348	0.20582417	2.8410037	21	8 10.7	19.8
101407 1998 VQ_3	15.9	X	83.08822	294.36566	51.59555	3.02139	0.0986399	0.22108072	2.7087492	21	—	—
101408 1998 VC_6	16.2	X	56.64684	142.02718	262.29139	1.32203	0.2045505	0.26715089	2.3876187	21	—	—
101409 1998 VQ_6	15.5	X	143.93149	83.78102	322.63768	4.31614	0.2002668	0.27815346	2.3242334	21	3 18.4	18.8
101410 1998 VZ_6	16.6	X	58.72478	212.86134	182.21991	2.27988	0.1888007	0.26647436	2.3916581	21	—	—
101411 1998 VO_7	16.1	X	221.58988	297.77402	63.13781	7.80442	0.2203645	0.28549429	2.2842192	21	4 3.6	20.0
101412 1998 VS_7	14.7	X	27.43344	15.69504	28.96052	12.46817	0.1851810	0.22184996	2.7024841	21	—	—
101413 1998 VG_9	16.3	X	112.74535	325.43490	54.40582	6.39446	0.2384230	0.27340616	2.3510608	21	1 13.8	19.0
101414 1998 VJ_9	16.6	X	97.79219	327.49750	79.36809	6.43343	0.1896864	0.27380734	2.3487637	21	1 19.6	18.9
101415 1998 VB_{12}	16.1	X	235.67386	182.32162	168.42759	5.99295	0.2817836	0.24278000	2.5448417	21	3 31.6	20.5
101416 1998 VN_{12}	15.3	X	179.46679	148.21724	172.36356	4.86787	0.2033469	0.23232976	2.6205925	21	1 12.0	19.6
101417 1998 VG_{13}	16.4	X	34.26783	247.39601	186.62722	0.80487	0.1146962	0.26843998	2.3799688	21	—	—
101418 1998 VW_{15}	16.5	X	107.88972	192.04367	191.46049	3.19189	0.1554387	0.27248863	2.3563355	21	—	—
101419 1998 VV_{16}	16.1	X	164.97673	218.09660	152.55609	4.45175	0.2064041	0.23513492	2.5997083	21	2 28.7	20.2
101420 1998 VE_{17}	16.2	X	138.65070	167.34203	195.24368	5.60500	0.1934894	0.27452765	2.3446534	21	1 15.1	19.4
101421 1998 VS_{17}	14.2	X	69.35696	328.20201	38.85173	17.88539	0.1952391	0.17907489	3.1173071	21	—	—
101422 1998 VV_{18}	16.0	X	198.79156	74.91944	255.52037	4.93577	0.1853150	0.27849328	2.3223423	21	2 1.1	19.8
101423 1998 VA_{19}	15.4	X	276.07751	110.56747	221.99127	6.56262	0.1807562	0.24471134	2.5314343	21	4 21.1	19.0
101424 1998 VA_{20}	15.5	X	309.49016	7.08492	79.16522	5.29405	0.2097722	0.21510385	2.7586965	21	11 16.1	18.0
101425 1998 VH_{20}	16.0	X	116.18873	199.53213	190.65962	4.18988	0.1710756	0.23050149	2.6344314	21	1 28.9	19.5
101426 1998 VZ_{20}	16.0	X	116.65401	193.13248	223.37192	4.58957	0.2401819	0.23275359	2.6174102	21	3 12.2	19.8
101427 1998 VA_{25}	15.8	X	147.56623	115.04654	209.09337	6.81454	0.1051277	0.27038267	2.3685550	21	—	—
101428 1998 VE_{30}	15.9	X	86.55910	229.84910	198.86126	8.85533	0.2314939	0.22953110	2.6418513	21	2 14.8	19.1
101429 1998 VF_{31}	17.2	X	268.99082	310.56366	221.29679	31.29550	0.1004385	0.52381751	1.5241091	21	—	—
101430 1998 VE_{32}	15.4	X	22.31904	100.41319	237.56559	26.97995	0.2899877	0.38953210	1.8568374	21	12 27.9	18.0
101431 1998 VX_{32}	15.4	X	281.88183	291.25220	54.46226	3.09221	0.1345304	0.24512207	2.5286057	21	5 22.8	18.8
101432 Adamwest	15.4	X	223.70198	288.04925	68.84843	16.56678	0.2808444	0.24304835	2.5429682	21	4 6.8	20.2
101433 1998 VR_{33}	15.1	X	121.09147	186.78275	229.06925	21.47908	0.0511727	0.23241946	2.6199181	21	2 11.3	19.2
101434 1998 VU_{33}	15.4	X	38.64824	248.38237	58.68318	2.46850	0.0773995	0.21060371	2.7978561	21	10 7.7	18.9
101435 1998 VC_{36}	16.2	X	143.79058	278.84162	87.38648	3.28253	0.2499233	0.27524124	2.3405992	21	2 3.3	19.6
101436 1998 VF_{36}	16.3	X	97.34583	112.72898	272.59247	1.67464	0.2302148	0.27087068	2.3657093	21	—	—
101437 1998 VL_{38}	15.7	X	138.35339	316.77744	49.44569	2.09253	0.1331644	0.23104562	2.6302936	21	1 21.6	19.4
101438 1998 VE_{39}	15.7	X	13.76061	144.91672	300.57021	4.65439	0.1954793	0.26653209	2.3913128	21	—	—
101439 1998 VH_{39}	16.0	X	93.33737	29.51083	345.46236	5.36175	0.1455036	0.26962397	2.3729962	21	—	—
101440 1998 VO_{41}	16.8	X	16.04684	216.09458	207.50320	1.67342	0.1858325	0.26391195	2.4071141	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
101441 1998 VB_{42}	16.6	X	98.84675	131.59040	235.64589	1.31342	0.2309274	0.27040129	2.3684463	21	—	—
101442 1998 VP_{42}	16.1	X	37.37592	339.56928	43.52687	5.76830	0.1715261	0.22054196	2.7131589	21	—	—
101443 1998 VA_{43}	15.5	X	143.35033	241.22294	45.48728	13.03229	0.1728329	0.22334333	2.6904240	21	—	—
101444 1998 VS_{43}	15.4	X	343.60985	351.88381	106.34437	5.42164	0.0403888	0.25935721	2.4352142	21	—	—
101445 1998 VG_{47}	14.8	X	30.04724	169.34460	59.34782	14.02799	0.1341748	0.24221010	2.5488320	21	6 10.0	17.4
101446 1998 VY_{47}	15.5	X	249.63766	286.74446	225.46511	5.12642	0.0538761	0.21606940	2.7504718	21	11 30.3	19.3
101447 1998 VY_{50}	15.6	X	95.00473	283.74088	75.03291	12.83216	0.2067142	0.26822354	2.3812489	21	—	—
101448 1998 VF_{54}	16.2	X	176.49904	354.47847	355.96929	5.87830	0.2043787	0.27762864	2.3271616	21	2 10.4	19.8
101449 1998 VQ_{55}	15.8	X	223.35821	150.50044	234.54483	8.63628	0.2323807	0.28705221	2.2759469	21	4 30.9	19.6
101450 1998 VN_{56}	16.2	X	29.28116	113.35294	318.51185	1.53426	0.1791307	0.26693370	2.3889136	21	—	—
101451 1998 VW_{56}	15.4	X	124.02073	64.75227	297.78676	5.57771	0.1799240	0.27268996	2.3551755	21	—	—
101452 1998 WS_{1}	16.1	X	301.46703	200.56341	218.38071	2.05249	0.2166254	0.25295197	2.4761522	21	9 24.8	18.2
101453 1998 WN_{2}	14.5	X	224.39662	131.66589	312.53810	12.14615	0.1584168	0.24124952	2.5555933	21	7 25.2	18.3
101454 1998 WZ_{2}	15.6	X	144.31114	243.24088	66.69427	3.18318	0.2142584	0.26903884	2.3764357	21	—	—
101455 1998 WN_{4}	16.1	X	143.05740	338.50766	98.62685	23.92801	0.0895365	0.36794184	1.9287825	21	4 22.3	19.0
101456 1998 WY_{4}	14.3	X	329.35338	276.51196	161.03932	16.31447	0.2754655	0.17216518	3.2001660	21	12 3.8	17.6
101457 1998 WF_{6}	15.7	X	89.64059	293.86004	55.87155	13.49379	0.2335635	0.26672786	2.3901425	21	—	—
101458 1998 WJ_{6}	16.0	X	234.60264	326.10796	60.86891	4.05103	0.2945521	0.24465879	2.5317967	21	5 12.2	20.4
101459 1998 WD_{7}	16.4	X	358.53500	44.82199	35.24269	2.53696	0.1844112	0.26327405	2.4110007	21	—	—
101460 1998 WH_{7}	16.1	X	100.07575	154.70201	254.19536	5.96026	0.0985092	0.27268086	2.3552280	21	1 10.3	18.7
101461 Dunedin	16.1	X	65.66631	12.47757	14.03719	6.89687	0.1655730	0.26713121	2.3877360	21	—	—
101462 1998 WW_{7}	16.2	X	108.02063	149.00974	233.33418	3.21809	0.1870995	0.27112907	2.3642061	21	—	—
101463 1998 WM_{11}	15.8	X	107.66760	285.34474	118.48024	3.83932	0.1032188	0.27320537	2.3522125	21	1 16.3	18.2
101464 1998 WS_{11}	15.5	X	133.45256	276.01668	108.72663	4.49401	0.0427214	0.23044722	2.6348450	21	1 26.6	18.9
101465 1998 WL_{12}	16.0	X	230.52387	86.81280	263.94858	3.13022	0.3018753	0.28478892	2.2879893	21	3 21.8	20.1
101466 1998 WJ_{15}	12.2	X	325.74955	324.72250	81.97933	11.93486	0.0799035	0.08264585	5.2198180	21	10 14.8	18.9
101467 1998 WG_{16}	15.4	X	355.85332	158.95535	226.88967	6.31519	0.1226383	0.25778425	2.4451103	21	12 1.9	18.0
101468 1998 WJ_{16}	16.0	X	215.52210	150.17901	209.64364	3.36781	0.2529526	0.23957315	2.5675010	21	3 27.2	20.4
101469 1998 WU_{16}	15.3	X	130.09221	105.52063	236.29792	13.20609	0.1092130	0.22556225	2.6727506	21	—	—
101470 1998 WV_{16}	14.7	X	190.59713	230.88277	64.73625	15.71571	0.0409276	0.22635726	2.6664888	21	—	—
101471 1998 WX_{16}	15.7	X	99.31475	166.63684	232.44609	5.78255	0.1625799	0.22810519	2.6528495	21	1 16.6	18.9
101472 1998 WL_{18}	15.9	X	78.61585	343.90939	30.43183	6.26434	0.2433806	0.26730451	2.3867038	21	—	—
101473 1998 WM_{20}	15.0	X	198.91040	106.09200	237.71334	11.30903	0.2280165	0.23607644	2.5927916	21	2 19.9	19.7
101474 1998 WQ_{21}	15.2	X	271.17517	340.70346	46.12194	7.08001	0.0787211	0.20406364	2.8573206	21	7 14.2	19.3
101475 1998 WF_{22}	16.1	X	338.45482	233.76004	176.71261	2.59633	0.1720303	0.25827327	2.4420229	21	12 10.3	18.2
101476 1998 WY_{22}	16.2	X	81.11910	16.97279	39.77214	4.39135	0.2028044	0.27100309	2.3649387	21	1 5.1	18.2
101477 1998 WO_{25}	14.5	X	147.27876	262.04660	42.24649	9.02008	0.1193808	0.18152018	3.0892480	21	—	—
101478 1998 WN_{27}	16.0	X	132.66754	106.71251	236.11801	2.21975	0.1266211	0.22783999	2.6549076	21	—	—
101479 1998 WC_{29}	16.3	X	290.96406	298.09789	230.76829	2.86739	0.0322119	0.22409818	2.6843790	21	—	—
101480 1998 WH_{32}	15.4	X	252.76643	286.73402	65.88061	13.12436	0.1985713	0.24277873	2.5448506	21	4 25.6	19.5
101481 1998 WN_{33}	15.8	X	305.51322	309.31189	128.09283	3.28857	0.1608019	0.25614981	2.4555005	21	11 11.2	18.1
101482 1998 WT_{33}	15.2	X	58.33634	224.20815	229.08339	23.79585	0.1339221	0.22840404	2.6505349	21	1 12.5	18.7
101483 1998 WQ_{34}	15.2	X	331.61320	315.57926	51.12468	7.65716	0.1399202	0.20978965	2.8050892	21	9 15.1	18.3
101484 1998 WF_{35}	16.0	X	217.60141	34.56477	38.59385	2.69191	0.0801047	0.20350108	2.8625840	21	7 8.8	20.2
101485 1998 WH_{36}	16.9	X	251.03537	287.59656	44.88607	8.46365	0.1864203	0.24187097	2.5512139	21	3 29.9	20.9
101486 1998 WJ_{38}	15.1	X	68.30280	353.74394	56.57780	7.09169	0.0781983	0.18259580	3.0771041	21	—	—
101487 1998 WB_{40}	16.0	X	140.30215	267.58525	60.85598	22.89480	0.3402752	0.27238244	2.3569479	21	—	—
101488 1998 WM_{42}	14.7	X	158.33859	146.27071	230.97994	6.87838	0.1174164	0.18992930	2.9973772	21	2 26.1	19.4
101489 1998 WW_{43}	15.5	X	88.30190	176.27383	239.91962	2.30926	0.0953565	0.22797462	2.6538623	21	1 14.1	18.8
101490 1998 WX_{43}	16.0	X	329.18990	189.56717	224.09936	2.13268	0.1749419	0.25705627	2.4497245	21	11 24.6	17.8
101491 Grahamcrombie	16.1	X	205.85555	306.82940	85.64831	13.76677	0.3102295	0.24092704	2.5578732	21	5 2.9	21.0
101492 1998 XT_{1}	12.1	X	337.92840	177.21085	230.00385	21.93427	0.0586164	0.08388406	5.1683244	21	10 25.3	18.7
101493 1998 XB_{3}	16.2	X	134.94059	248.70164	125.17224	7.48804	0.1841970	0.27248082	2.3563805	21	1 25.8	19.4
101494 1998 XD_{3}	15.6	X	207.84653	291.26225	80.86236	5.96398	0.2020057	0.23865536	2.5740793	21	4 9.2	19.9
101495 1998 XJ_{3}	15.0	X	183.34647	279.28659	173.75538	7.73867	0.1108778	0.19675227	2.9276751	21	6 25.8	19.7
101496 1998 XM_{3}	15.0	X	231.09159	338.95241	32.84928	8.68545	0.3982926	0.24244935	2.5471550	21	4 17.6	19.8
101497 1998 XB_{6}	16.1	X	232.07416	310.94708	103.54943	3.08333	0.0448577	0.20191380	2.8775666	21	7 4.7	20.3
101498 1998 XC_{7}	15.5	X	6.43530	293.26832	208.63963	2.81007	0.0114266	0.18506505	3.0496718	21	1 16.0	19.6
101499 1998 XS_{7}	15.7	X	56.25011	265.13355	52.48478	3.76765	0.0709814	0.21518455	2.7580068	21	11 12.6	19.2
101500 1998 XP_{8}	15.3	X	286.01696	193.56803	150.20503	3.43117	0.1895362	0.20240754	2.8728851	21	5 20.8	19.3
101501 1998 XR_{8}	16.7	X	95.34215	149.62566	104.67493	5.13103	0.1218648	0.29673042	2.2261854	21	10 29.1	19.7
101502 1998 XZ_{9}	16.3	X	136.76564	230.75543	74.36370	3.80341	0.1724676	0.26694433	2.3888502	21	—	—
101503 1998 XL_{10}	15.3	X	101.99785	333.04660	81.54189	13.13955	0.1789672	0.22960143	2.6413117	21	2 18.2	18.9
101504 1998 XK_{13}	16.1	X	83.31842	307.00107	74.63901	3.84596	0.2037162	0.26868886	2.3784988	21	—	—
101505 1998 XM_{16}	14.4	X	233.18478	352.19877	92.31093	27.64599	0.2156412	0.20160236	2.8805294	21	7 28.1	19.3
101506 1998 XP_{17}	15.6	X	79.07327	339.73645	116.09285	2.54800	0.1888029	0.27270108	2.3551115	21	2 27.2	17.6
101507 1998 XG_{18}	15.8	X	318.08686	166.90404	237.49873	3.48852	0.0681841	0.21125193	2.7921297	21	10 13.3	19.1
101508 1998 XB_{20}	16.3	X	114.46816	22.79238	75.59426	2.98482	0.2008924	0.19172690	2.9786126	21	5 2.6	20.8
101509 1998 XN_{20}	15.9	X	294.17758	258.96320	279.93032	6.66037	0.1237337	0.21750823	2.7383288	21	—	—
101510 1998 XH_{22}	15.4	X	151.45237	96.24748	232.94795	12.12752	0.1331543	0.22844036	2.6502539	21	—	—
101511 1998 XH_{23}	15.7	X	336.92190	97.28304	284.51398	0.67102	0.0852836	0.21125419	2.7921098	21	10 12.5	19.1
101512 1998 XU_{25}	15.9	X	82.15985	309.20990	102.84016	0.63355	0.2091268	0.18438743	3.0571389	21	1 27.1	19.5
101513 1998 XV_{25}	15.9	X	256.73817	285.60826	80.13067	1.59294	0.1094628	0.20048491	2.8912230	21	5 24.5	20.2
101514 1998 XK_{26}	16.2	X	325.86289	38.10430	246.36716	20.38575	0.0534674	0.37051693	1.9198355	21	4 28.8	18.0
101515 1998 XG_{27}	14.6	X	131.59997	204.89101	268.37524	28.16570	0.0955573	0.23612020	2.5924713	21	5 25.9	18.6
101516 1998 XW_{28}	14.8	X	125.93061	134.98319	239.00970	2.79117	0.1231097	0.18487354	3.0517776	21	1 22.9	19.3
101517 1998 XT_{42}	15.7	X	358.02714	50.54911	19.20642	6.76237	0.1303128	0.26028365	2.4294322	21	—	—
101518 1998 XF_{45}	14.9	X	313.41020	193.39316	304.84106	6.54880	0.2150610	0.26077590	2.4263740	21	—	—
101519 1998 XP_{50}	14.6	X	138.14235	276.44211	92.49166	11.81968	0.2654451	0.22782867	2.6549956	21	2 11.7	18.9
101520 1998 XA_{52}	15.0	X	351.32747	106.76200	331.99176	10.31310	0.2176959	0.26010555	2.4305411	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
101521 1998 XU_{58}	15.5	X	84.00497	183.78036	189.60515	1.14377	0.2994418	0.26713156	2.3877338	21	—	—
101522 1998 XJ_{63}	15.3	X	52.15180	109.41503	287.63624	6.84095	0.1705598	0.26558273	2.3970081	21	—	—
101523 1998 XD_{65}	15.3	X	295.12686	126.33219	348.81841	8.70577	0.1816807	0.25801184	2.4436723	21	12 13.1	17.6
101524 1998 XK_{65}	15.6	X	328.21622	40.08464	8.53939	2.14028	0.2044751	0.25650535	2.4532309	21	11 13.8	17.2
101525 1998 XM_{65}	15.4	X	179.22769	301.83154	50.94083	8.35018	0.2040469	0.23337619	2.6127530	21	2 23.3	19.8
101526 1998 XB_{66}	16.2	X	22.57898	97.29934	342.96748	1.00957	0.1514197	0.26566546	2.3965104	21	—	—
101527 1998 XM_{76}	15.0	X	71.72982	300.32034	102.65433	12.56558	0.1924292	0.22388302	2.6860986	21	—	—
101528 1998 XS_{83}	15.0	X	150.09153	253.91552	153.61962	12.67168	0.2013490	0.19093849	2.9868063	21	4 7.6	20.0
101529 1998 XH_{93}	14.3	X	254.69580	96.27698	267.43204	12.66022	0.2271386	0.24143046	2.5543163	21	5 2.2	18.6
101530 1998 XO_{97}	16.2	X	352.78398	341.01418	76.85351	4.02076	0.1603388	0.26040857	2.4286552	21	—	—
101531 1998 XT_{97}	16.5	X	148.10418	317.31957	63.52504	3.58108	0.2134254	0.27612124	2.3356235	21	2 22.8	19.9
101532 1998 XS_{99}	16.4	X	80.18728	345.36457	38.82166	3.37919	0.1768043	0.26832750	2.3806338	21	—	—
101533 1998 YK_{9}	15.8	X	104.56281	169.20318	249.22747	1.43111	0.2946644	0.18566607	3.0430869	21	3 15.4	20.4
101534 1998 YC_{10}	14.7	X	28.31153	131.14067	73.30862	6.89041	0.0736104	0.19300948	2.9654023	21	5 5.5	18.5
101535 1998 YQ_{13}	16.0	X	147.09162	51.32289	262.25643	1.58753	0.2193224	0.26931686	2.3747999	21	—	—
101536 1998 YE_{14}	16.2	X	151.58789	215.97645	138.44993	3.00411	0.2309071	0.27452560	2.3446651	21	1 24.2	19.7
101537 1998 YX_{14}	15.6	X	205.24915	285.95871	83.39073	9.66265	0.1831520	0.23858513	2.5745844	21	4 5.9	20.0
101538 1998 YO_{15}	15.7	X	136.27847	3.64752	38.58981	1.23693	0.1445412	0.18512917	3.0489676	21	3 12.1	20.3
101539 1998 YE_{16}	16.7	X	88.38363	280.86713	167.61560	1.13016	0.2220046	0.18407529	3.0605940	21	3 24.3	20.8
101540 1998 YO_{16}	15.9	X	68.11496	158.97416	287.08206	5.20217	0.1945771	0.26872654	2.3782765	21	1 21.1	17.7
101541 1998 YM_{17}	16.0	X	354.76429	198.25736	122.91056	4.20620	0.1320933	0.24317787	2.5420652	21	8 24.3	18.3
101542 1998 YK_{18}	16.0	X	29.60560	231.83200	134.89916	3.28053	0.1976927	0.26040849	2.4286558	21	—	—
101543 1998 YK_{21}	15.5	X	34.22560	252.36441	138.65034	1.09148	0.1456355	0.17087617	3.2162395	21	—	—
101544 1998 YS_{21}	14.6	X	344.47622	173.25353	293.98505	4.76241	0.1376828	0.17273255	3.1931545	21	—	—
101545 1998 YH_{23}	15.7	X	64.85071	279.97046	67.95797	5.01690	0.2553152	0.26250510	2.4157068	21	—	—
101546 1998 YZ_{26}	14.8	X	40.70974	290.15930	86.45116	14.00594	0.1908948	0.21735867	2.7395848	21	—	—
101547 1998 YM_{27}	14.6	X	2.68249	106.58524	347.23778	15.81594	0.2267383	0.17567056	3.1574517	21	—	—
101548 1998 YS_{29}	15.1	X	328.84252	84.76048	7.90165	9.11800	0.2046017	0.25682620	2.4511873	21	—	—
101549 1998 YY_{29}	15.1	X	210.90094	309.14670	103.73217	25.45169	0.0654153	0.36819276	1.9279061	21	6 5.5	17.6
101550 1999 AE	15.6	X	127.07865	141.74329	265.93024	3.97795	0.2271130	0.27331159	2.3516031	21	3 5.2	18.9
101551 1999 AH_{1}	16.3	X	336.02226	223.68093	131.87371	3.72786	0.1310464	0.24596973	2.5227929	21	9 8.9	18.7
101552 1999 AP_{1}	15.2	X	108.60364	45.40338	70.37935	10.05617	0.1577374	0.19287889	2.9667406	21	5 13.3	19.6
101553 1999 AB_{4}	16.4	X	128.82924	235.47431	315.73162	18.69750	0.0881458	0.37334959	1.9101124	21	9 4.6	18.8
101554 1999 AL_{4}	15.9	X	110.41434	86.12628	310.14626	21.86485	0.3331039	0.27417983	2.3466359	21	2 11.6	18.9
101555 1999 AO_{5}	14.8	X	148.17570	122.96632	334.20982	12.16910	0.1370282	0.23442257	2.6049722	21	5 23.3	19.1
101556 1999 AW_{5}	15.8	X	277.45130	37.11680	77.61397	7.78069	0.1272620	0.25190249	2.4830249	21	11 17.7	18.6
101557 1999 AW_{6}	15.0	X	226.52035	27.58510	142.21136	3.52291	0.0765496	0.25232770	2.4802346	21	11 27.4	18.3
101558 1999 AE_{8}	14.0	X	176.04745	213.41041	338.60937	11.55382	0.0365151	0.24742921	2.5128626	21	10 23.1	17.6
101559 1999 AJ_{9}	14.9	X	37.10586	252.64345	206.20298	2.18528	0.1843071	0.17886519	3.1197431	21	1 6.3	18.1
101560 1999 AA_{12}	15.8	X	94.20773	148.72715	271.11584	1.15816	0.0612781	0.18027008	3.1035133	21	2 1.8	20.1
101561 1999 AA_{14}	15.6	X	280.46440	263.50846	73.64446	0.74590	0.0170613	0.19253621	2.9702598	21	5 30.3	19.6
101562 1999 AD_{14}	15.2	X	323.56869	338.18564	301.95921	13.23791	0.2258311	0.23305889	2.6151239	21	3 31.2	18.7
101563 1999 AK_{15}	15.4	X	123.05505	130.08160	312.25407	2.37861	0.0831018	0.18690445	3.0296302	21	4 6.5	19.7
101564 1999 AV_{17}	15.4	X	198.66915	350.40773	304.16614	3.89120	0.0869831	0.21936431	2.7228606	21	—	—
101565 1999 AD_{21}	15.0	X	345.23154	85.82356	354.75663	4.98129	0.0856018	0.25787385	2.4445439	21	—	—
101566 1999 AO_{21}	15.4	X	17.79895	35.92310	158.16233	6.57544	0.1854425	0.22798077	2.6538145	21	3 29.5	17.7
101567 1999 AW_{22}	14.3	X	25.84299	218.29116	21.20083	28.87826	0.1692785	0.23460824	2.6035977	21	6 18.5	17.7
101568 1999 AK_{30}	16.1	X	57.73977	278.18133	222.11460	0.62274	0.0344756	0.22870159	2.6482354	21	3 15.1	19.5
101569 1999 AH_{31}	16.5	X	190.70754	271.77689	128.65673	3.10584	0.2296915	0.27858205	2.3218490	21	4 26.2	20.3
101570 1999 AJ_{38}	14.4	X	227.41784	71.63623	27.67199	12.80876	0.2066648	0.24543618	2.5264478	21	8 17.8	18.6
101571 1999 AF_{39}	15.3	X	135.68255	44.45125	342.91300	8.89257	0.1968932	0.27586606	2.3370636	21	2 15.7	18.4
101572 1999 BF	15.3	X	347.50077	115.57070	345.42199	5.25203	0.1732069	0.25993268	2.4316186	21	—	—
101573 1999 BQ	15.0	X	220.96314	226.40951	294.12325	8.00919	0.0150429	0.25197555	2.4825449	21	11 13.9	18.3
101574 1999 BA_{1}	13.5	X	307.17674	165.81449	50.50938	29.50895	0.0855586	0.17490599	3.1666466	21	2 3.9	18.5
101575 1999 BD_{2}	15.3	X	91.33657	299.21082	164.91610	21.80560	0.2599580	0.27452679	2.3446583	21	4 17.2	18.4
101576 1999 BM_{2}	15.7	X	199.37475	292.56629	143.26171	15.58937	0.1393618	0.23724002	2.5843069	21	6 20.5	20.0
101577 1999 BV_{2}	14.3	X	29.78871	307.29319	351.47466	12.66415	0.1441034	0.24134841	2.5548952	21	9 24.0	17.0
101578 1999 BM_{3}	16.4	X	70.09270	69.77465	310.84663	5.30137	0.1344573	0.26175934	2.4202929	21	—	—
101579 1999 BR_{4}	15.5	X	147.41784	328.40647	145.68564	0.49606	0.1079523	0.23470778	2.6028615	21	6 14.7	19.4
101580 1999 BZ_{5}	15.9	X	162.47406	285.11247	152.55515	5.01698	0.1986396	0.23478911	2.6022603	21	5 20.4	20.2
101581 1999 BY_{7}	14.2	X	40.09927	98.50777	295.65335	17.42426	0.2244654	0.17246234	3.1964889	21	—	—
101582 1999 BZ_{8}	15.5	X	269.89126	10.03701	126.83838	9.58163	0.1323178	0.25313244	2.4749752	21	12 6.3	18.4
101583 1999 BF_{10}	15.0	X	167.62441	353.02601	137.45829	7.21488	0.1000957	0.23944660	2.5684056	21	7 27.6	18.7
101584 1999 BP_{10}	16.5	X	116.24989	16.34535	145.56307	2.36248	0.1651554	0.27927348	2.3180150	21	7 19.4	19.7
101585 1999 BL_{11}	15.5	X	2.01421	263.07189	332.22392	12.19710	0.0767538	0.22955976	2.6416313	21	4 24.1	19.0
101586 1999 BN_{11}	16.8	X	320.91154	82.73731	324.27379	18.23448	0.1027389	0.38025402	1.8869201	21	11 25.3	18.6
101587 1999 BE_{12}	16.1	X	338.51183	83.73977	16.97867	7.64676	0.2044633	0.25865009	2.4396506	21	—	—
101588 1999 BH_{12}	14.7	X	305.48775	256.11751	313.20340	15.41729	0.1991825	0.17565716	3.1576123	21	1 2.2	19.4
101589 1999 BP_{14}	15.8	X	274.35464	26.59473	131.61686	6.94936	0.0956853	0.25644906	2.4535899	21	—	—
101590 1999 BU_{20}	15.5	X	258.16602	158.82444	326.03980	5.55932	0.0902042	0.25244975	2.4794352	21	11 4.6	18.6
101591 1999 BB_{21}	16.2	X	219.15354	127.16034	295.66985	5.36588	0.1406260	0.28541675	2.2846328	21	6 21.6	19.5
101592 1999 BN_{24}	15.0	X	350.40825	232.55414	243.15646	8.46391	0.1953904	0.26214505	2.4179182	21	—	—
101593 1999 BU_{25}	15.1	X	172.23363	339.19703	159.84565	5.81095	0.2052424	0.24143399	2.5542914	21	8 12.3	19.5
101594 1999 BE_{26}	15.6	X	97.60878	278.64156	194.60074	4.21790	0.1700969	0.22950976	2.6420150	21	4 24.7	19.1
101595 1999 BJ_{26}	15.1	X	71.15318	347.29404	80.37107	2.54338	0.1224438	0.17918393	3.1160423	21	1 19.9	18.9
101596 1999 BR_{27}	16.0	X	266.17146	258.75430	254.54030	6.41718	0.1746550	0.25942316	2.4348014	21	12 16.4	18.5
101597 1999 BA_{30}	15.2	X	249.41522	267.61268	41.45605	0.80100	0.1975792	0.18526962	3.0474265	21	3 2.5	20.2
101598 1999 BC_{33}	16.3	X	345.68984	211.00053	112.11202	6.84542	0.1291854	0.24311733	2.5424872	21	8 8.8	18.7
101599 1999 BD_{34}	14.5	X	33.46260	271.69647	241.43001	15.02991	0.2022999	0.18138876	3.0907399	21	3 5.9	18.2
101600 1999 BX_{34}	13.6	X	295.28140	161.84786	58.94478	28.42906	0.1472627	0.17480702	3.1678417	21	1 8.5	18.7

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
101601 1999 CM	14.6	X	239.82306	111.71918	93.09110	16.63305	0.2893814	0.21089896	2.7952443	21	12 19.9	18.8
101602 1999 CT_1	13.6	X	17.91915	124.87770	355.17226	15.78397	0.1570749	0.17568941	3.1572260	21	1 2.8	17.6
101603 1999 CB_2	15.0	X	193.21870	141.91793	12.28845	6.62906	0.1781219	0.24385164	2.5373805	21	9 21.3	19.1
101604 1999 CR_3	16.2	X	315.16312	337.65293	134.33534	33.01789	0.1940105	0.38813532	1.8612895	21	—	—
101605 1999 CZ_5	14.1	X	8.99084	96.28087	328.50699	19.12892	0.1270917	0.25906261	2.4370600	21	—	—
101606 1999 CK_6	15.3	X	185.42603	92.47669	321.41858	21.29498	0.0936237	0.23384251	2.6092783	21	4 27.1	19.7
101607 1999 CN_6	14.3	X	39.10222	304.42050	330.97447	27.27068	0.1253582	0.24067081	2.5596884	21	8 31.5	17.4
101608 1999 CB_7	16.3	X	75.34832	335.00283	128.57418	24.55389	0.0603477	0.35721995	1.9671867	21	1 22.9	17.9
101609 1999 CD_7	14.6	X	30.31119	304.18153	138.76192	27.54428	0.2247711	0.17508530	3.1644842	21	—	—
101610 1999 CW_7	16.2	X	47.33766	125.30731	344.85430	14.60737	0.2875345	0.39954257	1.8256913	21	—	—
101611 1999 CL_8	15.1	X	51.41564	29.77163	146.94937	14.55173	0.1909040	0.22796100	2.6539680	21	5 18.9	18.3
101612 1999 CS_8	12.4	X	94.65810	221.64527	66.43774	26.26086	0.0903267	0.08379869	5.1718340	21	11 10.8	19.5
101613 1999 CX_8	15.7	X	201.54411	26.69065	55.21359	4.17024	0.2300676	0.23759026	2.5817665	21	6 26.2	20.0
101614 1999 CY_8	15.0	X	12.55929	44.50160	15.39581	8.08124	0.1443777	0.25469928	2.4648145	21	—	—
101615 1999 CD_9	15.5	X	79.27492	359.51702	156.76997	14.17468	0.0847534	0.23072331	2.6327426	21	5 17.7	19.2
101616 1999 CL_9	14.8	X	29.91135	171.27774	10.63666	11.66024	0.1553451	0.22734719	2.6587428	21	4 3.7	17.5
101617 1999 CM_9	15.0	X	106.10111	121.39853	83.64335	12.27778	0.0804481	0.19450925	2.9501395	21	8 26.4	19.5
101618 1999 CN_9	15.5	X	78.99341	66.07207	19.67504	9.42930	0.2348130	0.26797551	2.3827180	21	2 24.6	17.7
101619 1999 CG_{12}	14.8	X	349.39131	334.11013	158.52652	26.06702	0.2045702	0.26113453	2.4241520	21	—	—
101620 1999 CN_{14}	15.0	X	88.37874	31.61632	153.33400	13.31061	0.1358088	0.23397815	2.6082698	21	7 12.3	18.7
101621 1999 CH_{16}	15.9	X	209.08389	153.22927	321.00987	3.50674	0.2164404	0.24338748	2.5406055	21	8 12.9	20.2
101622 1999 CP_{16}	14.7	X	353.32059	263.77923	328.88617	13.88832	0.0443538	0.23021036	2.6366520	21	4 7.6	18.3
101623 1999 CH_{18}	14.4	X	35.30510	138.80967	343.78527	13.82635	0.0779163	0.26774863	2.3840638	21	1 12.5	17.2
101624 1999 CV_{18}	14.4	X	8.87540	30.31140	66.31753	13.32347	0.1621819	0.17485427	3.1672710	21	—	—
101625 1999 CP_{20}	14.8	X	114.97727	198.50139	38.87775	4.81696	0.0877281	0.24583829	2.5236921	21	10 18.0	18.4
101626 1999 CN_{21}	16.0	X	108.61453	136.98764	16.26413	2.33940	0.1524871	0.27884347	2.3203976	21	6 27.2	19.0
101627 1999 CV_{21}	14.1	X	45.15228	168.86048	330.93200	13.50140	0.2229029	0.18205823	3.0831584	21	3 16.3	17.5
101628 1999 CO_{22}	14.6	X	47.40175	350.83529	116.68874	18.63963	0.1720748	0.17968592	3.1102361	21	2 6.9	18.1
101629 1999 CV_{24}	15.7	X	287.01125	112.15296	31.69110	7.45454	0.0585849	0.30017028	2.2091452	21	—	—
101630 1999 CD_{26}	15.8	X	72.06267	252.51632	306.83824	1.77869	0.0856430	0.23526408	2.5987568	21	7 2.4	19.1
101631 1999 CM_{29}	15.5	X	201.42995	135.01098	341.90549	3.18457	0.1128995	0.24187684	2.5511727	21	8 15.7	19.1
101632 1999 CP_{32}	14.6	X	108.91987	26.45873	42.38550	4.73433	0.1979749	0.18339313	3.0681789	21	3 22.9	19.1
101633 1999 CA_{34}	15.7	X	348.99689	30.11371	128.61990	1.59235	0.0906474	0.22014287	2.7164370	21	—	—
101634 1999 CN_{36}	14.5	X	39.00607	307.72941	128.49513	28.42344	0.2179292	0.17545436	3.1600450	21	—	—
101635 1999 CY_{37}	14.2	X	277.31913	291.20259	326.94322	15.06115	0.2074801	0.17612862	3.1519750	21	1 29.8	19.2
101636 1999 CO_{42}	14.7	X	120.52878	20.83509	103.80106	1.93206	0.2473306	0.18920143	3.0050597	21	6 14.1	19.6
101637 1999 CA_{43}	15.4	X	256.13171	292.56853	145.17021	14.60705	0.0490605	0.24310249	2.5425907	21	9 8.2	18.7
101638 1999 CL_{45}	14.4	X	353.50535	14.46095	140.52922	18.05782	0.1289054	0.17552762	3.1591657	21	1 7.2	18.5
101639 1999 CP_{45}	14.1	X	35.64763	87.29957	335.27019	21.00039	0.0568627	0.17041504	3.2220389	21	—	—
101640 1999 CG_{48}	15.0	X	170.67676	6.56646	146.37266	14.48858	0.1128363	0.24082851	2.5585708	21	8 30.5	18.9
101641 1999 CU_{48}	15.2	X	133.35490	54.63145	77.28974	3.31607	0.1693347	0.23485808	2.6017509	21	6 27.9	19.1
101642 1999 CK_{51}	14.9	X	33.67724	251.46393	349.91430	9.12922	0.3424071	0.18481619	3.0524089	21	8 11.9	18.1
101643 1999 CU_{51}	14.4	X	10.49410	140.99553	352.13920	15.16010	0.1694718	0.17564844	3.1577169	21	1 6.2	18.3
101644 1999 CC_{52}	15.4	X	216.70262	58.69747	45.93813	6.56738	0.1524067	0.24212337	2.5494407	21	8 15.4	19.3
101645 1999 CM_{56}	16.1	X	149.49177	152.33418	350.23256	13.71878	0.1884168	0.23728234	2.5839996	21	8 1.6	20.5
101646 1999 CQ_{56}	15.2	X	174.86027	24.63649	119.35402	6.71604	0.1978283	0.24021749	2.5629077	21	8 22.7	19.5
101647 1999 CP_{57}	14.8	X	21.85608	304.47972	151.79048	14.11809	0.2835778	0.17476287	3.1683752	21	—	—
101648 1999 CX_{58}	15.8	X	57.55093	151.97228	47.95085	4.48083	0.1240876	0.27528483	2.3403521	21	6 15.3	18.1
101649 1999 CO_{62}	13.6	X	60.06160	115.54394	308.64157	15.36365	0.2126345	0.17772094	3.1331197	21	1 9.8	17.0
101650 1999 CU_{62}	15.2	X	237.25127	286.92964	168.68703	2.62644	0.1086482	0.20010464	2.8948847	21	8 25.3	19.3
101651 1999 CU_{66}	14.8	X	69.10527	216.26274	284.03656	9.46135	0.0858182	0.18422505	3.0589351	21	4 7.5	19.0
101652 1999 CD_{67}	14.4	X	4.06034	327.88990	196.88609	12.09671	0.1242237	0.17851607	3.1238092	21	2 1.1	18.5
101653 1999 CK_{68}	14.1	X	189.45220	140.70679	321.44586	11.54759	0.0979167	0.23891264	2.5722310	21	7 16.3	18.0
101654 1999 CE_{71}	15.2	X	185.89158	174.06664	291.57334	5.09332	0.2092214	0.23944492	2.5684176	21	7 13.4	19.6
101655 1999 CV_{71}	15.5	X	193.91005	109.06367	306.97181	12.43999	0.0999634	0.23422314	2.6064507	21	5 16.4	19.7
101656 1999 CC_{73}	15.2	X	192.86893	259.26585	208.87550	5.48671	0.2659276	0.24065643	2.5597904	21	7 19.7	19.8
101657 1999 CC_{76}	14.5	X	341.72767	318.91661	320.89450	13.97760	0.0889225	0.23280719	2.6170085	21	5 26.4	17.9
101658 1999 CG_{76}	15.8	X	62.24816	192.89505	260.03054	1.48569	0.1751797	0.26693601	2.3888999	21	1 17.8	17.5
101659 1999 CJ_{80}	14.7	X	337.97307	164.54800	229.38598	6.61292	0.0532869	0.24752832	2.5121917	21	11 5.9	17.6
101660 1999 CK_{80}	14.5	X	5.17166	252.31915	261.71619	7.05034	0.1860753	0.17660029	3.1463602	21	1 17.4	18.0
101661 1999 CS_{84}	15.2	X	31.87752	93.51710	55.35478	10.27682	0.1436963	0.26972815	2.3723852	21	2 12.3	17.5
101662 1999 CU_{84}	15.9	X	50.68562	5.45083	75.55712	11.14173	0.2323471	0.26656057	2.3911424	21	—	—
101663 1999 CW_{84}	15.3	X	20.07895	3.59808	56.26524	6.25725	0.0838529	0.30319143	2.1944453	21	—	—
101664 1999 CS_{88}	15.0	X	134.91677	47.38063	64.16085	11.01963	0.0730736	0.19034036	2.9930603	21	5 26.5	19.2
101665 1999 CV_{89}	15.1	X	143.15010	113.10539	355.08480	11.87122	0.1298694	0.23521787	2.5990971	21	6 1.4	19.3
101666 1999 CT_{92}	14.3	X	6.37047	277.61816	341.04720	14.24557	0.0758723	0.23437787	2.6053035	21	6 8.7	17.7
101667 1999 CX_{94}	14.9	X	331.48847	133.46237	6.24343	6.55828	0.0716654	0.26029138	2.4293841	21	—	—
101668 1999 CR_{95}	14.6	X	45.77145	328.35154	124.26275	6.89777	0.1324079	0.17647117	3.1478948	21	1 12.6	18.4
101669 1999 CC_{96}	15.5	X	78.29414	350.85602	63.27897	6.46043	0.1814940	0.26531161	2.3986408	21	—	—
101670 1999 CV_{96}	15.3	X	60.27554	171.69771	347.81649	8.51717	0.0659942	0.22879907	2.6474832	21	4 13.9	18.7
101671 1999 CB_{100}	14.9	X	24.75750	344.95538	127.48299	13.14713	0.1800136	0.17558387	3.1584910	21	1 1.9	18.4
101672 1999 CC_{101}	15.3	X	183.07122	114.02324	357.98027	13.24098	0.1564544	0.23847006	2.5754125	21	7 23.8	19.7
101673 1999 CE_{104}	15.1	X	335.20626	36.20678	186.97299	0.87727	0.1098575	0.18038360	3.1022112	21	3 7.3	18.9
101674 1999 CU_{106}	14.4	X	357.52746	291.75313	160.60240	32.41407	0.1140383	0.17138392	3.2098840	21	—	—
101675 1999 CO_{107}	14.5	X	310.52458	286.97938	257.34822	10.95316	0.1990519	0.17321205	3.1872587	21	—	—
101676 1999 CY_{107}	14.6	X	51.81783	321.80430	151.86207	10.37938	0.0576670	0.17940046	3.1135345	21	2 11.2	18.7
101677 1999 CK_{108}	15.0	X	340.77564	64.19855	173.82163	6.81434	0.1785823	0.22695982	2.6617671	21	3 18.3	17.7
101678 1999 CO_{108}	14.9	X	192.50855	345.95073	165.28664	13.58384	0.1140688	0.24448796	2.5329760	21	9 20.5	18.7
101679 1999 CR_{108}	14.1	X	94.43941	90.10092	266.92993	15.09041	0.3685642	0.21652078	2.7466479	21	—	—
101680 1999 CQ_{109}	15.1	X	100.29893	290.67727	246.48603	4.04462	0.1376662	0.23552273	2.5968538	21	7 16.9	18.7

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
101681 1999 CH_{110}	15.0	X	124.01254	29.22216	208.12533	11.79722	0.0883522	0.24524497	2.5277608	21	10 27.6	18.6
101682 1999 CN_{110}	15.1	X	249.12315	358.05988	229.68379	9.27281	0.1449172	0.21465507	2.7625402	21	—	—
101683 1999 CX_{111}	15.3	X	114.28875	26.27756	183.69741	11.82074	0.1263407	0.24025234	2.5626598	21	9 12.9	19.2
101684 1999 CZ_{111}	14.7	X	127.64560	238.85308	275.29815	10.37042	0.1118577	0.23633513	2.5908993	21	7 14.8	18.6
101685 1999 CA_{114}	13.7	X	68.56560	125.43969	308.96709	15.16259	0.2069595	0.17821404	3.1273376	21	2 3.2	17.4
101686 1999 CX_{114}	16.2	X	14.82911	260.13123	203.62677	4.82956	0.0814552	0.30516614	2.1849684	21	—	—
101687 1999 CA_{117}	15.3	X	325.99225	209.44424	293.41218	8.13187	0.0963063	0.21520852	2.7578020	21	—	—
101688 1999 CX_{117}	14.6	X	164.20511	243.86106	256.09753	7.66841	0.1111561	0.23789577	2.5795557	21	8 3.2	18.7
101689 1999 CS_{119}	15.4	X	186.98015	38.99595	83.56135	14.30614	0.1062185	0.24077180	2.5589726	21	8 11.0	19.5
101690 1999 CA_{120}	15.4	X	102.35163	25.08119	40.12697	10.70695	0.1970100	0.27050166	2.3678604	21	2 28.9	18.3
101691 1999 CO_{120}	14.3	X	67.91577	13.79350	79.04102	19.58595	0.2076071	0.18192441	3.0846701	21	3 8.2	18.5
101692 1999 CM_{122}	14.5	X	54.50102	29.99811	82.86610	18.85550	0.1916342	0.18092538	3.0960150	21	3 8.9	18.5
101693 1999 CQ_{125}	15.3	X	318.29727	95.44788	18.75681	12.61347	0.1745962	0.25668805	2.4520667	21	—	—
101694 1999 CR_{125}	13.9	X	182.42241	65.18339	73.21943	14.17699	0.0924351	0.24144468	2.5542160	21	8 30.7	18.0
101695 1999 CC_{132}	15.4	X	227.78829	235.03094	141.18988	4.91962	0.0875130	0.23426094	2.6061703	21	5 7.2	19.2
101696 1999 CD_{132}	14.7	X	118.78892	248.45023	141.08657	4.37668	0.0944419	0.17870685	3.1215857	21	1 31.2	19.1
101697 1999 CV_{137}	16.3	X	358.34984	290.71441	147.84885	4.06870	0.1621155	0.25767543	2.4457987	21	—	—
101698 1999 CZ_{137}	16.1	X	35.99339	25.64152	207.17027	0.07161	0.0833823	0.18948171	3.0020956	21	6 24.2	20.0
101699 1999 CN_{147}	15.4	X	320.93529	342.22069	19.51713	1.11422	0.1090153	0.23992514	2.5649892	21	8 20.7	18.2
101700 1999 CO_{149}	15.5	X	255.67409	237.40233	347.55374	3.85692	0.0175393	0.21423470	2.7661528	21	—	—
101701 1999 CU_{149}	15.7	X	315.45921	12.07321	348.30304	2.49503	0.1693273	0.23863328	2.5742381	21	7 31.8	18.3
101702 1999 CV_{149}	15.7	X	282.68440	97.23222	159.60517	1.53404	0.1092615	0.17538643	3.1608610	21	2 11.2	20.3
101703 1999 CA_{150}	15.2	X	275.52088	68.43868	358.58723	2.57901	0.1274530	0.24306868	2.5428264	21	9 6.7	18.2
101704 1999 CK_{150}	14.6	X	25.63727	320.50578	167.35702	27.03008	0.1446943	0.17555658	3.1588183	21	1 22.7	18.8
101705 1999 CK_{152}	15.7	X	60.17457	93.48249	343.80695	0.67394	0.1604810	0.17710963	3.1403250	21	1 19.5	19.3
101706 1999 CB_{153}	15.3	X	294.17904	9.39589	323.29421	12.66506	0.1791691	0.23628083	2.5912962	21	5 10.2	19.0
101707 1999 CY_{153}	14.8	X	28.49044	141.13567	10.20534	13.65829	0.1892530	0.22325793	2.6911100	21	2 22.8	17.5
101708 1999 CV_{155}	16.2	X	90.25287	246.08808	284.66924	2.41358	0.1743475	0.27682257	2.3316770	21	7 1.7	19.1
101709 1999 CF_{157}	16.6	X	263.39443	90.17389	336.23999	5.01543	0.2233040	0.24366956	2.5386444	21	8 5.8	20.0
101710 1999 DQ	14.7	X	70.28740	298.88812	161.52153	17.49503	0.0839981	0.17968519	3.1102445	21	2 22.6	18.9
101711 1999 DT_{1}	15.1	X	139.61933	114.72787	332.33636	15.16269	0.1182530	0.23198038	2.6232230	21	4 25.1	19.3
101712 1999 DU_{2}	14.8	X	123.53866	209.82311	32.12071	3.70790	0.0712812	0.24615670	2.5215153	21	10 31.5	18.5
101713 Marston	14.9	X	47.88527	357.27173	114.04421	2.59277	0.2090885	0.17880784	3.1204101	21	2 15.7	18.0
101714 1999 DQ_{4}	15.3	X	177.77239	123.97578	306.13896	2.54026	0.1914159	0.23451368	2.6042975	21	5 22.1	19.6
101715 1999 DT_{4}	14.6	X	333.50512	346.73423	219.24469	14.32322	0.1934012	0.17794483	3.1304910	21	1 26.9	18.9
101716 1999 DJ_{6}	14.0	X	291.86251	34.76146	326.15828	12.10617	0.1130822	0.23800108	2.5787947	21	7 3.1	17.4
101717 1999 DR_{7}	14.5	X	1.79436	186.59346	2.39953	12.69483	0.1289160	0.22323660	2.6912814	21	2 25.8	17.5
101718 1999 EB	14.7	X	201.23702	125.56554	355.67917	8.69256	0.1262048	0.24092074	2.5579178	21	8 22.2	18.6
101719 1999 EF	14.8	X	75.00460	314.17304	157.73085	7.37845	0.2397668	0.18210593	3.0826200	21	4 9.7	18.7
101720 1999 EP_{1}	16.8	X	297.57849	197.60660	226.16404	0.81285	0.1514900	0.24665949	2.5180876	21	10 3.9	19.2
101721 Emanuelfritsch	14.7	X	359.11905	40.74492	178.04441	14.21609	0.1169155	0.17904700	3.1176308	21	4 9.3	18.4
101722 Pursell	14.0	X	95.11383	69.14755	6.19047	21.18211	0.1914413	0.17800968	3.1297307	21	3 16.4	18.4
101723 Finger	16.1	X	204.50861	17.85547	132.44086	3.67461	0.1357161	0.24385335	2.5373686	21	9 30.7	19.9
101724 1999 ED_{6}	13.9	X	210.24097	355.75649	17.65847	28.67850	0.1253858	0.22433904	2.6824573	21	4 10.7	18.1
101725 1999 EG_{6}	15.7	X	195.26571	138.32855	14.82467	13.29468	0.1663722	0.24146820	2.5540502	21	9 23.8	19.7
101726 1999 EJ_{6}	15.0	X	144.03990	293.63107	182.09305	2.78504	0.1756301	0.23391117	2.6087677	21	6 18.2	19.1
101727 1999 ED_{7}	16.2	X	219.77083	103.95870	9.00210	22.10011	0.0731635	0.37340681	1.9099173	21	9 20.7	18.2
101728 1999 EW_{7}	15.7	X	335.77557	356.57765	346.22452	8.32231	0.1394996	0.23902382	2.5714333	21	8 19.3	18.2
101729 1999 EG_{9}	15.5	X	265.72409	9.89846	340.56295	13.91095	0.2824202	0.23479453	2.6022204	21	4 17.3	19.9
101730 1999 EX_{9}	16.8	X	213.89119	83.83177	331.18793	3.41590	0.1413150	0.23530960	2.5984216	21	6 6.2	20.8
101731 1999 EN_{10}	15.9	X	186.70797	192.81750	322.10000	1.88824	0.1116500	0.24206192	2.5498721	21	9 17.4	19.7
101732 1999 EV_{11}	14.9	X	147.49744	122.92933	56.32407	5.77626	0.0862310	0.23982472	2.5657052	21	9 10.7	18.7
101733 1999 ER_{12}	15.3	X	164.57697	82.55701	20.15410	11.84117	0.1852268	0.23508969	2.6000418	21	6 20.4	19.8
101734 1999 FU_{1}	14.2	X	281.23237	102.83363	171.06702	15.95805	0.1839552	0.17690569	3.1427381	21	2 19.4	19.1
101735 1999 FG_{2}	14.4	X	79.15893	79.82630	349.44669	16.92481	0.1471067	0.17617013	3.1514799	21	2 11.1	18.6
101736 1999 FH_{3}	15.9	X	208.85458	310.46028	174.85406	2.43705	0.1446312	0.23953283	2.5677891	21	8 31.3	19.9
101737 1999 FN_{3}	15.8	X	254.05067	336.75498	13.34963	19.72040	0.0729635	0.36004204	1.9568937	21	4 17.1	18.0
101738 1999 FY_{4}	16.1	X	352.44669	231.71180	185.42295	3.51585	0.1443204	0.29310014	2.2445298	21	—	—
101739 1999 FS_{6}	15.5	X	283.53067	201.92511	23.22168	6.01083	0.1470516	0.21416782	2.7667287	21	—	—
101740 1999 FC_{7}	13.9	X	222.57859	337.20439	23.12297	14.31298	0.1983188	0.22268141	2.6957529	21	4 6.8	18.3
101741 1999 FH_{7}	14.9	X	350.34404	102.98235	14.43696	22.17745	0.2586949	0.25909700	2.4368443	21	—	—
101742 1999 FO_{7}	14.7	X	74.50250	88.20251	349.42083	23.22214	0.3436758	0.26752479	2.3853935	21	2 24.9	16.5
101743 1999 FN_{8}	16.7	X	202.48220	170.29489	359.84756	19.46981	0.0584547	0.37699296	1.8977859	21	11 11.5	19.2
101744 1999 FO_{8}	14.9	X	204.74850	288.23155	194.57264	29.15434	0.1253478	0.23974776	2.5662543	21	8 20.8	19.3
101745 1999 FR_{8}	16.8	X	66.66222	38.93929	183.06700	22.45211	0.0527914	0.36557684	1.9370921	21	7 20.8	19.3
101746 1999 FO_{10}	14.7	X	0.73609	153.02259	359.25876	10.75871	0.1174704	0.17369722	3.1813208	21	1 19.4	18.8
101747 1999 FL_{11}	14.3	X	305.12407	271.85079	350.46621	15.51351	0.2379003	0.17704412	3.1410996	21	2 28.1	18.7
101748 1999 FL_{13}	16.2	X	172.97535	295.28617	173.15219	5.39145	0.0712617	0.23508134	2.6001034	21	7 3.7	20.1
101749 1999 FW_{16}	17.1	X	242.50350	336.30557	353.36892	4.90131	0.0165526	0.31401001	2.1437479	21	3 17.4	19.2
101750 1999 FA_{17}	15.1	X	20.79142	69.05743	170.01877	7.32605	0.1270530	0.18532840	3.0467821	21	6 12.0	18.8
101751 1999 FQ_{17}	15.9	X	331.19145	20.30062	170.83233	1.12949	0.1312033	0.17253981	3.1955320	21	1 19.9	20.1
101752 1999 FQ_{18}	14.3	X	321.37188	152.21498	11.30993	8.82204	0.2089455	0.21460929	2.7629331	21	—	—
101753 1999 FT_{19}	15.8	X	185.52236	293.70687	177.38192	14.20778	0.1324273	0.23640711	2.5903733	21	7 19.1	20.1
101754 1999 FL_{20}	15.5	X	311.48625	246.37324	356.76974	4.31317	0.0838939	0.22192350	2.7018870	21	2 25.7	18.9
101755 1999 FN_{23}	14.6	X	337.31179	10.18528	176.79419	15.25708	0.2018639	0.17552790	3.1591623	21	1 11.3	18.9
101756 1999 FQ_{24}	15.7	X	67.63163	208.37227	359.67863	6.60578	0.0498400	0.27579372	2.3374723	21	7 3.2	18.6
101757 1999 FA_{25}	15.2	X	194.25720	297.66262	169.26831	11.82860	0.2297007	0.23794011	2.5792352	21	7 20.0	19.8
101758 1999 FL_{29}	14.7	X	8.63686	9.69695	177.16493	18.23605	0.1633597	0.17730040	3.1380720	21	3 9.9	18.2
101759 1999 FA_{30}	14.1	X	162.70266	110.79126	24.75395	14.50536	0.1031834	0.23514602	2.5996265	21	8 4.2	18.3
101760 1999 FY_{36}	14.7	X	38.17069	222.51438	327.86346	13.69823	0.0762377	0.22829285	2.6513954	21	4 19.0	18.2

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
101761 1999 FJ_{37}	14.5	X	343.08128	264.81673	254.37785	3.96207	0.1555130	0.17408682	3.1765726	21	—	—
101762 1999 FO_{37}	14.5	X	200.88641	127.83978	325.18107	7.05105	0.2008439	0.23910114	2.5708789	21	7 11.6	18.8
101763 1999 FJ_{48}	14.8	X	53.18842	35.01755	161.39887	12.20056	0.1031136	0.18585911	3.0409795	21	6 5.9	18.9
101764 1999 FK_{49}	14.6	X	231.87322	245.38328	11.87732	11.33305	0.1125883	0.16985552	3.2291108	21	—	—
101765 1999 FO_{49}	15.5	X	19.89323	53.52667	155.69475	12.20264	0.1357782	0.22720925	2.6598188	21	4 28.8	18.5
101766 1999 FX_{49}	15.3	X	57.76950	205.52690	1.70211	9.00695	0.1745136	0.23123862	2.6288298	21	7 7.9	18.5
101767 1999 FJ_{50}	14.9	X	41.85726	141.75267	348.35276	9.25556	0.1550202	0.17815316	3.1280500	21	2 25.5	18.4
101768 1999 FS_{50}	14.8	X	36.03164	223.92219	344.30143	12.67704	0.1199185	0.22903401	2.6456724	21	5 17.5	18.0
101769 1999 FF_{52}	14.2	X	267.85637	36.64254	353.89661	14.59359	0.1847675	0.23835667	2.5762293	21	6 29.9	18.1
101770 1999 FL_{56}	14.7	X	344.08636	78.24794	69.29006	5.52881	0.1094581	0.17233248	3.1980944	21	—	—
101771 1999 FB_{58}	14.9	X	258.58099	72.61959	344.10811	14.34262	0.0977710	0.23940651	2.5686923	21	8 8.2	18.4
101772 1999 FY_{59}	14.5	X	69.19279	214.76760	350.03935	12.86367	0.0937443	0.23297895	2.6157220	21	7 10.1	18.1
101773 1999 FO_{62}	15.0	X	105.62310	303.59127	174.60518	6.38431	0.1827023	0.18411373	3.0601680	21	5 16.8	19.5
101774 1999 FR_{62}	15.6	X	322.79512	27.05775	174.17920	12.42110	0.0831752	0.21833803	2.7313863	21	1 16.4	19.4
101775 1999 GT	16.1	X	186.71861	319.39786	202.08995	3.70371	0.1831089	0.24134680	2.5549065	21	9 22.3	20.4
101776 1999 GF_{3}	14.6	X	15.53485	277.48590	185.06546	12.20729	0.1284519	0.17074429	3.2178954	21	—	—
101777 Robhoskins	14.9	X	4.95449	168.77922	27.94386	11.68994	0.1118990	0.22314098	2.6920502	21	3 16.2	18.1
101778 1999 GZ_{6}	14.4	X	309.21768	238.23413	36.24019	29.03173	0.1832274	0.22235605	2.6983819	21	4 2.1	18.3
101779 1999 GJ_{8}	15.5	X	38.58015	202.15777	1.71638	6.00175	0.2039834	0.22693167	2.6619873	21	5 29.5	18.1
101780 1999 GP_{8}	15.9	X	264.65113	93.46273	64.01206	5.31711	0.1373917	0.29394620	2.2402208	21	—	—
101781 Gojira	14.3	X	300.75966	248.53681	181.29550	15.32393	0.1387030	0.24361262	2.5390399	21	10 22.5	17.1
101782 1999 GF_{10}	17.0	X	246.72817	100.29812	10.20162	7.06242	0.1438743	0.28850874	2.2682803	21	9 29.3	19.7
101783 1999 GV_{13}	15.0	X	38.47305	109.67230	8.70955	4.76142	0.1423376	0.17544035	3.1602132	21	2 4.8	18.8
101784 1999 GQ_{14}	14.7	X	248.65045	292.71599	22.67348	5.52131	0.1736281	0.17528500	3.1620802	21	3 13.1	19.8
101785 1999 GE_{16}	16.0	X	4.37565	219.79427	26.21269	3.28358	0.1827802	0.27079216	2.3661666	21	5 10.9	17.7
101786 1999 GY_{17}	14.2	X	331.81110	161.86883	59.00599	14.70812	0.1281082	0.22101523	2.7092843	21	2 25.5	17.9
101787 1999 GD_{26}	14.9	X	158.48649	79.06089	23.56499	14.57939	0.0568180	0.23033333	2.6357135	21	6 5.8	18.9
101788 1999 GN_{33}	13.7	X	244.13362	26.56958	32.06395	13.57041	0.1466045	0.23435667	2.6054605	21	7 15.6	17.8
101789 1999 GE_{35}	14.7	X	337.55545	331.60310	205.76823	9.84617	0.2119030	0.21778317	2.7360236	21	—	—
101790 1999 GR_{36}	13.9	X	167.89302	152.30594	343.70853	12.63423	0.1795821	0.23716805	2.5848297	21	8 8.5	18.2
101791 1999 GV_{44}	14.6	X	273.61455	297.58902	76.17885	8.50705	0.0170483	0.23234071	2.6205101	21	7 8.8	18.0
101792 1999 GC_{45}	14.0	X	50.79919	45.11847	48.75324	16.76515	0.1330867	0.17234822	3.1978997	21	1 28.7	18.2
101793 1999 GN_{48}	15.5	X	86.08177	153.95777	29.01516	4.49450	0.1825177	0.23117029	2.6293478	21	7 15.3	19.1
101794 1999 GK_{50}	14.9	X	263.04840	134.46977	327.58318	4.78875	0.1412801	0.24499204	2.5295003	21	10 2.7	18.3
101795 1999 HX_{2}	15.0	X	304.77481	156.56761	135.57295	19.45713	0.5487535	0.17686367	3.1432358	21	2 25.1	20.3
101796 1999 HN_{3}	14.1	X	336.57737	339.58216	53.76441	15.73262	0.1024623	0.24418277	2.5350860	21	11 5.7	16.7
101797 1999 HR_{3}	16.7	X	261.84829	283.46156	177.18656	22.29988	0.0935799	0.37661358	1.8990602	21	11 4.9	18.6
101798 1999 HL_{4}	15.5	X	150.01951	343.51883	62.39817	1.79831	0.2351582	0.22002231	2.7174292	21	4 3.2	20.0
101799 1999 HE_{5}	15.0	X	250.49686	82.67010	211.01648	11.20790	0.1298299	0.21605928	2.7505577	21	2 10.3	19.5
101800 1999 HU_{7}	15.5	X	219.66500	300.11446	51.59901	2.97982	0.0558871	0.22062703	2.7124614	21	3 29.7	19.3
101801 1999 HS_{8}	15.6	X	100.24114	271.88243	250.90556	1.45993	0.1272329	0.23041579	2.6350845	21	6 26.8	19.1
101802 1999 HV_{8}	15.2	X	206.49288	94.52832	20.36285	12.63793	0.1254190	0.23786265	2.5797951	21	8 22.9	19.3
101803 1999 JH	15.9	X	266.49489	155.11663	21.65453	24.82164	0.0616798	0.38507816	1.8711278	21	—	—
101804 1999 JR_{4}	16.4	X	247.03540	201.91815	46.53900	8.57791	0.0861463	0.29958767	2.2120083	21	—	—
101805 1999 JT_{4}	16.0	X	164.20571	76.13857	49.08844	22.00552	0.0925614	0.36475461	1.9400021	21	7 24.1	18.9
101806 1999 JX_{4}	16.0	X	168.47138	263.20733	236.33477	19.14810	0.0864767	0.36689736	1.9324414	21	8 5.9	18.9
101807 1999 JJ_{5}	14.8	X	173.71630	273.69283	232.03936	26.37783	0.3406199	0.23769384	2.5810164	21	8 11.2	20.3
101808 1999 JO_{5}	15.6	X	36.79300	190.07271	57.44551	23.36049	0.0419352	0.36202809	1.9497303	21	7 13.9	17.9
101809 1999 JW_{5}	16.6	X	218.65204	275.17348	218.53089	19.67236	0.0763644	0.37192911	1.9149728	21	10 13.5	18.5
101810 1999 JA_{6}	14.0	X	297.77021	117.84952	117.67994	26.24083	0.1620676	0.16981388	3.2296386	21	1 28.4	18.7
101811 1999 JQ_{6}	14.8	X	50.11046	95.90997	21.28812	22.20634	0.3219451	0.27143832	2.3624100	21	2 25.4	16.5
101812 1999 JD_{7}	15.3	X	77.58766	104.50062	81.08894	12.96107	0.0650843	0.22792357	2.6542585	21	6 17.6	18.6
101813 Elizabethmarston	15.9	X	297.29183	312.88081	47.96892	22.89279	0.1030093	0.36257458	1.9477706	21	7 15.3	18.2
101814 1999 JD_{8}	15.5	X	317.86533	62.70052	215.87696	24.40008	0.4666770	0.17528285	3.1621060	21	2 21.8	20.6
101815 1999 JB_{12}	15.8	X	79.42720	309.24831	221.55835	19.81291	0.0634226	0.35869856	1.9617769	21	5 23.0	17.5
101816 1999 JN_{12}	14.5	X	10.29402	334.87110	138.42750	9.57448	0.1920790	0.21284997	2.7781369	21	—	—
101817 1999 JP_{12}	14.7	X	72.45811	355.03980	116.91313	10.45162	0.1450658	0.21978723	2.7193665	21	3 18.7	18.1
101818 1999 JD_{13}	16.6	X	308.97808	54.44402	219.94712	5.67400	0.2670242	0.30381025	2.1914645	21	2 20.3	19.7
101819 1999 JK_{13}	13.3	X	308.67616	71.91308	76.76972	23.66955	0.2314929	0.21311950	2.7757941	21	—	—
101820 1999 JC_{14}	15.9	X	214.15262	38.34575	68.79205	23.08157	0.0687829	0.36725541	1.9311851	21	9 14.7	18.8
101821 1999 JJ_{14}	15.8	X	90.34383	304.74359	247.33679	18.92211	0.0537109	0.36157980	1.9513415	21	7 9.1	18.0
101822 1999 JE_{17}	16.5	X	230.39429	133.95850	97.60902	8.07760	0.0806103	0.29499698	2.2348978	21	—	—
101823 1999 JC_{20}	15.9	X	218.64867	340.63035	289.46569	2.32527	0.1674276	0.25392789	2.4698038	21	—	—
101824 1999 JF_{22}	14.5	X	273.18428	123.62931	350.24113	6.54369	0.1744766	0.24544887	2.5263607	21	10 28.0	17.5
101825 1999 JB_{23}	15.9	X	341.71650	16.04848	201.60508	1.85909	0.1435927	0.26429506	2.4047874	21	2 16.0	18.4
101826 1999 JY_{23}	14.4	X	337.26108	98.27602	36.28347	12.82759	0.0683631	0.20995377	2.8036272	21	—	—
101827 1999 JM_{24}	15.3	X	80.38693	288.43844	234.68705	5.24878	0.1303328	0.22668414	2.6639247	21	6 1.4	18.7
101828 1999 JM_{26}	15.1	X	16.53525	95.66342	57.15980	9.79509	0.0652623	0.21689115	2.7435202	21	2 6.9	18.7
101829 1999 JW_{28}	15.5	X	144.02152	125.00546	36.78266	13.34623	0.1339409	0.23378851	2.6096801	21	8 20.7	19.8
101830 1999 JR_{31}	14.8	X	48.90514	95.48021	49.86256	12.32957	0.1038961	0.22024859	2.7155676	21	3 22.8	18.1
101831 1999 JO_{40}	14.8	X	177.28158	76.19558	57.24358	13.97199	0.0767874	0.23348147	2.6119675	21	8 17.6	18.9
101832 1999 JL_{55}	15.5	X	249.85875	209.80413	101.80007	7.16610	0.1081075	0.26132262	2.4229887	21	3 6.0	19.1
101833 1999 JO_{55}	14.6	X	21.23192	102.08836	193.36391	9.72534	0.2183768	0.18609423	3.0384174	21	9 7.2	17.9
101834 1999 JF_{56}	15.3	X	242.46768	44.40378	206.80396	7.32726	0.1609755	0.20954567	2.8072661	21	—	—
101835 1999 JP_{56}	14.8	X	205.95371	94.04872	231.36791	12.28833	0.1400627	0.21266963	2.7797073	21	2 5.9	19.5
101836 1999 JL_{59}	15.5	X	24.10958	99.29479	100.73737	6.56168	0.0847218	0.26602032	2.3943787	21	4 16.1	18.1
101837 1999 JQ_{60}	15.9	X	138.54006	201.20610	82.54742	5.51959	0.2549820	0.24314006	2.5423287	21	—	—
101838 1999 JT_{62}	15.8	X	153.54895	220.40715	86.56966	14.05472	0.1461565	0.24777337	2.5105351	21	—	—
101839 1999 JE_{65}	16.1	X	33.34985	172.51990	53.37228	3.21605	0.1539976	0.27200847	2.3591077	21	6 14.5	18.2
101840 1999 JU_{65}	15.8	X	317.13322	235.37787	43.80335	5.63458	0.2222516	0.26706447	2.3881337	21	3 26.3	18.7

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
101841 1999 JM_{67}	14.0	X	303.61922	172.71474	46.84227	12.33232	0.0760870	0.17101348	3.2145177	21	1 31.3	18.7
101842 1999 JL_{69}	15.1	X	110.63266	294.94498	214.72729	9.92379	0.1722436	0.23041347	2.6351023	21	6 26.6	19.1
101843 1999 JN_{70}	14.5	X	5.16695	59.72015	63.27628	9.80520	0.1114383	0.21241762	2.7819054	21	—	—
101844 1999 JL_{72}	16.5	X	275.53948	69.33539	150.57248	4.42881	0.0992026	0.30041811	2.2079301	21	—	—
101845 1999 JL_{74}	15.1	X	62.14714	106.41985	67.17543	14.59567	0.0965809	0.22500233	2.6771829	21	5 15.9	18.4
101846 1999 JB_{88}	14.1	X	279.39848	178.39378	89.45000	16.08943	0.1760442	0.17197696	3.2025005	21	2 18.2	19.2
101847 1999 JG_{90}	15.8	X	35.87466	114.49368	121.07931	11.96364	0.0966541	0.22808823	2.6529810	21	6 29.0	18.9
101848 1999 JV_{90}	16.8	X	328.71509	139.34137	153.43966	4.89924	0.1839909	0.31340166	2.1465212	21	5 6.0	18.5
101849 1999 JJ_{91}	14.6	X	17.82520	121.22842	132.02870	14.40082	0.1795359	0.18265285	3.0764634	21	6 29.9	18.1
101850 1999 JT_{91}	14.5	X	138.51715	15.85223	85.58184	12.81242	0.1435293	0.22600157	2.6692858	21	5 24.8	18.6
101851 1999 JU_{96}	14.8	X	36.22793	173.58166	89.53214	12.46638	0.1066553	0.18534128	3.0466410	21	8 10.1	18.8
101852 1999 JY_{97}	15.6	X	151.28381	112.50791	142.71942	14.63048	0.0846466	0.24333392	2.5409782	21	12 18.4	19.6
101853 1999 JU_{107}	16.2	X	166.34899	174.72681	66.08397	7.04287	0.0788625	0.28947102	2.2632507	21	12 23.8	19.1
101854 1999 JO_{115}	16.6	X	350.35807	57.45621	224.64040	3.47056	0.1159566	0.31507090	2.1389330	21	6 11.7	18.2
101855 1999 JG_{118}	15.7	X	5.06657	158.00144	88.59439	3.47656	0.1377596	0.26878882	2.3779091	21	5 17.5	17.6
101856 1999 JA_{121}	14.7	X	342.48016	201.88158	81.86342	12.78157	0.1718280	0.18030372	3.1031273	21	6 1.7	18.2
101857 1999 JZ_{125}	14.8	X	130.57959	243.45229	13.71840	7.17086	0.2749158	0.19716429	2.9235950	21	11 25.7	20.1
101858 1999 KE_{8}	15.0	X	105.02388	250.23032	309.87509	4.36823	0.2438606	0.18840662	3.0135052	21	8 29.9	19.9
101859 1999 LA	16.6	X	49.04303	161.82149	244.51307	7.17998	0.0806662	0.29503747	2.2346933	21	—	—
101860 1999 LN_{2}	16.6	X	31.86595	56.46099	213.46409	21.19132	0.0631860	0.36322232	1.9454543	21	8 5.8	19.0
101861 1999 LA_{4}	16.1	X	78.84988	353.26973	244.45335	20.95146	0.0328443	0.36445976	1.9410482	21	8 23.6	18.9
101862 1999 LH_{4}	16.7	X	341.96696	68.38450	123.14718	24.87243	0.0767340	0.35112930	1.9898699	21	1 1.6	19.0
101863 1999 LZ_{5}	16.1	X	299.55682	68.71041	180.11252	23.13762	0.2340031	0.30371035	2.1919450	21	1 12.6	19.9
101864 1999 LF_{7}	15.1	X	74.50677	172.09496	129.17603	3.97838	0.0188068	0.18936919	3.0032847	21	11 4.9	19.3
101865 1999 LG_{11}	17.0	X	284.77383	118.09951	171.34521	5.52980	0.2326800	0.30580185	2.1819392	21	2 20.5	20.2
101866 1999 LM_{15}	16.1	X	229.22506	280.82351	212.01044	21.50835	0.0866238	0.37136573	1.9169090	21	10 28.9	17.7
101867 1999 LR_{15}	15.4	X	79.07395	166.88830	114.03317	25.40421	0.1970360	0.27987837	2.3146740	21	11 26.9	19.4
101868 1999 LE_{35}	16.2	X	296.96329	47.32121	230.22498	6.07731	0.0790288	0.26399714	2.4065962	21	3 14.5	19.4
101869 1999 MM	19.2	X	201.34877	268.78326	110.95249	4.76508	0.6108532	0.47615590	1.6241891	21	4 4.8	22.7
101870 1999 NV	13.9	X	318.01953	264.35878	127.62529	16.68153	0.3659643	0.17894627	3.1188007	21	8 16.3	16.8
101871 1999 NV_{1}	15.3	X	66.15952	24.86170	291.26876	22.24332	0.1230226	0.27632385	2.3344817	21	12 12.2	18.7
101872 1999 NO_{4}	16.3	X	170.84230	181.95224	94.32407	5.21980	0.1283759	0.28829426	2.2694052	21	—	—
101873 1999 NC_{5}	16.4	X	130.40706	295.25401	128.80051	45.79023	0.3931964	0.34099681	2.0290956	21	5 1.8	20.9
101874 1999 NM_{8}	16.2	X	230.30735	130.48072	148.32305	5.82769	0.1789768	0.29539104	2.2329098	21	—	—
101875 1999 NA_{9}	16.0	X	194.92523	157.01714	122.01771	6.87816	0.1856460	0.29108680	2.2548675	21	—	—
101876 1999 NJ_{15}	15.5	X	88.36073	228.57624	105.85935	5.53057	0.1467182	0.23946443	2.5682781	21	—	—
101877 1999 NA_{16}	16.0	X	29.89905	30.93806	284.06078	5.73993	0.1635211	0.27492252	2.3424078	21	10 25.2	18.6
101878 1999 NR_{23}	16.7	X	198.26975	145.04242	156.27081	0.60256	0.1834442	0.29429505	2.2384501	21	—	—
101879 1999 NP_{26}	15.7	X	101.29936	30.94022	277.56973	2.55134	0.1575258	0.28294797	2.2979028	21	—	—
101880 1999 NJ_{29}	15.4	X	39.38389	188.19578	121.67910	14.82925	0.2486228	0.23036261	2.6354901	21	11 15.5	19.1
101881 1999 NO_{30}	16.2	X	316.14050	243.36957	57.58235	2.02976	0.1597011	0.30889632	2.1673426	21	4 29.4	18.2
101882 1999 NK_{36}	16.1	X	277.19290	208.67452	101.77681	7.51986	0.1864453	0.30455605	2.1878854	21	3 22.1	19.2
101883 1999 NT_{36}	15.3	X	320.66419	21.81691	318.35434	12.05041	0.2173932	0.26730915	2.3866762	21	7 4.4	17.6
101884 1999 ND_{38}	16.6	X	42.93672	249.04261	52.76727	2.95791	0.2057991	0.27447358	2.3449613	21	11 4.9	19.3
101885 1999 NV_{40}	13.6	X	298.55547	58.14155	324.90579	16.45578	0.2168395	0.17761259	3.1343938	21	7 27.3	17.6
101886 1999 NU_{41}	13.7	X	285.18570	19.62128	333.43745	16.18755	0.1844809	0.17382006	3.1798218	21	5 29.9	18.5
101887 1999 NG_{42}	16.1	X	44.09182	29.92505	314.18480	2.30153	0.1883578	0.27835739	2.3230981	21	12 30.6	19.2
101888 1999 NM_{42}	16.1	X	314.40734	43.79801	307.39730	4.87674	0.2501059	0.26721364	2.3872449	21	7 1.2	18.3
101889 1999 NE_{55}	13.5	X	291.48999	100.69568	267.74480	20.58832	0.0968389	0.17576485	3.1563224	21	7 10.1	17.9
101890 1999 NK_{55}	13.1	X	250.41417	92.10445	299.53630	27.73303	0.2167761	0.17189518	3.2035161	21	6 10.8	18.5
101891 1999 NL_{55}	14.0	X	44.69226	5.27651	264.25077	14.41390	0.1451666	0.18074773	3.0980433	21	8 25.9	18.3
101892 1999 NV_{64}	16.3	X	302.42399	311.87178	344.89005	2.19644	0.1897131	0.30632300	2.1794637	21	3 27.8	18.7
101893 1999 PJ	16.2	X	317.75918	169.47312	151.92140	3.16431	0.2322678	0.26420154	2.4053548	21	5 25.4	18.7
101894 1999 PD_{2}	14.5	X	298.88429	291.05768	147.22922	12.86821	0.2695246	0.18099694	3.0951989	21	10 1.8	18.2
101895 1999 PE_{3}	15.9	X	297.79979	213.35365	222.87545	1.15085	0.1165784	0.27373896	2.3491548	21	11 1.8	18.3
101896 1999 PM_{3}	16.5	X	129.85844	29.91528	314.48872	3.49544	0.1694597	0.28760862	2.2730106	21	—	—
101897 1999 PO_{4}	14.6	X	100.27719	20.82506	348.97198	19.15592	0.3016389	0.23944694	2.5684031	21	1 4.2	17.9
101898 1999 PQ_{6}	16.6	X	255.19224	150.10757	140.46606	5.39031	0.1727486	0.29883139	2.2157388	21	1 31.3	19.9
101899 1999 PT_{8}	16.4	X	249.88273	212.23308	110.88168	3.46901	0.2333350	0.25608739	2.4558995	21	3 11.3	20.4
101900 1999 QH	14.8	X	214.19563	283.83076	22.84029	5.79577	0.1494202	0.29476863	2.2360519	21	1 16.1	18.2
101901 1999 QD_{2}	17.2	X	46.23587	122.97492	154.02273	23.28761	0.0609339	0.45024938	1.6859084	21	10 12.2	18.7
101902 Gisellaluccone	15.7	X	347.67566	69.02742	351.37254	3.71080	0.1181702	0.27627773	2.3347415	21	—	—
101903 1999 RR	14.1	X	280.63443	332.53544	85.29527	6.96977	0.1656454	0.17612635	3.1520021	21	8 23.8	18.5
101904 1999 RD_{1}	16.0	X	120.25767	335.74777	40.18043	2.47174	0.1695246	0.28869328	2.2673136	21	1 3.2	18.4
101905 1999 RN_{1}	16.4	X	228.35081	133.69913	278.16481	1.44980	0.2010509	0.26000337	2.4311779	21	6 12.3	20.3
101906 1999 RX_{1}	15.6	X	277.73095	347.14588	346.92441	2.10747	0.2081431	0.25868702	2.4394184	21	4 20.1	19.1
101907 1999 RC_{3}	14.0	X	226.43441	69.24262	3.73115	10.83374	0.1350961	0.17002700	3.2269392	21	7 15.5	19.2
101908 1999 RG_{4}	14.4	X	285.76800	54.02609	307.62129	16.27226	0.1754405	0.17460838	3.1702437	21	6 15.8	19.0
101909 1999 RU_{6}	16.5	X	323.30010	276.08449	161.53961	5.21428	0.1510729	0.27546385	2.3393380	21	12 24.2	18.5
101910 1999 RR_{8}	15.8	X	254.68838	317.61964	170.72917	6.44206	0.1465301	0.27416513	2.3467198	21	11 3.6	18.5
101911 1999 RN_{9}	14.6	X	350.52935	197.76075	166.45415	22.89061	0.1416576	0.18059245	3.0998189	21	10 11.3	18.3
101912 1999 RK_{10}	16.5	X	26.06038	189.59567	158.46371	1.98791	0.2392025	0.27538236	2.3397995	21	12 20.0	19.3
101913 1999 RT_{10}	16.5	X	15.42276	166.52929	221.79677	1.32683	0.2167778	0.27740000	2.3284401	21	—	—
101914 1999 RW_{10}	16.6	X	91.18254	156.71666	195.63986	1.45075	0.1897685	0.28377854	2.2934169	21	—	—
101915 1999 RV_{12}	16.3	X	189.69046	169.03545	202.46251	5.46290	0.1675298	0.29745311	2.2225782	21	3 13.7	19.7
101916 1999 RN_{13}	15.9	X	279.63160	251.68652	139.87467	1.00943	0.2124436	0.26507647	2.4000591	21	7 10.5	18.9
101917 1999 RB_{14}	14.4	X	300.49496	23.20836	346.78650	15.70083	0.2280302	0.17525219	3.1624748	21	7 11.7	18.7
101918 1999 RC_{14}	16.1	X	99.69926	299.76037	142.50514	3.62032	0.0612876	0.29524331	2.2336546	21	2 16.0	18.2
101919 1999 RL_{14}	16.2	X	72.54176	210.69990	166.93429	3.31058	0.1844032	0.28298088	2.2977246	21	—	—
101920 1999 RD_{15}	15.8	X	282.65182	91.47829	348.88990	7.16671	0.0829711	0.27203317	2.3589649	21	10 14.5	18.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
101921 1999 RT_{15}	14.1	X	274.42680	49.44945	347.77500	8.97994	0.0952992	0.17482754	3.1675938	21	7 30.3	18.6
101922 1999 RG_{16}	16.0	X	263.67632	67.04843	181.09106	5.75746	0.1587679	0.29402166	2.2398374	21	—	—
101923 1999 RC_{18}	16.0	X	252.46946	211.00286	184.41121	2.24192	0.2103831	0.26172628	2.4204967	21	6 13.9	19.7
101924 1999 RD_{18}	16.0	X	100.93440	202.63393	173.44540	6.15654	0.1436238	0.28631647	2.2798441	21	—	—
101925 1999 RK_{18}	15.7	X	56.42228	289.46284	0.97327	10.93987	0.2171231	0.27338589	2.3511770	21	11 3.9	18.9
101926 1999 RT_{18}	14.1	X	342.51700	22.71991	338.96963	9.03528	0.2839950	0.17878890	3.1206305	21	9 14.8	16.6
101927 1999 RN_{19}	14.4	X	314.13742	334.60606	22.58353	0.80993	0.1763695	0.17578081	3.1561314	21	7 20.9	18.2
101928 1999 RY_{19}	16.1	X	118.74434	51.97115	302.06092	3.32604	0.1649378	0.28608352	2.2810816	21	—	—
101929 1999 RP_{20}	14.5	X	254.43763	62.55053	346.52670	16.68114	0.1582780	0.17185037	3.2040730	21	7 14.6	19.6
101930 1999 RU_{20}	16.1	X	336.67962	147.74028	202.88511	3.16244	0.1927595	0.26777783	2.3838905	21	8 31.3	17.9
101931 1999 RZ_{20}	16.7	X	355.70237	2.54579	343.27719	6.61382	0.3129383	0.27008031	2.3703225	21	10 27.7	18.0
101932 1999 RN_{21}	16.1	X	300.54901	206.98116	67.32856	2.10335	0.1668699	0.30110335	2.2045790	21	2 28.0	18.8
101933 1999 RS_{21}	16.1	X	184.16284	206.86934	149.44982	5.36109	0.1228083	0.29442313	2.2378008	21	2 15.6	19.0
101934 1999 RS_{22}	16.1	X	36.32486	10.22345	329.09647	5.15599	0.2213206	0.27442299	2.3452495	21	12 18.6	19.1
101935 1999 RV_{22}	15.6	X	308.27054	104.44821	329.07303	5.44710	0.0571051	0.27334971	2.3513844	21	11 18.4	18.3
101936 1999 RW_{22}	16.0	X	197.55427	67.11818	303.75255	3.15327	0.1415469	0.25205502	2.4820231	21	3 23.9	20.0
101937 1999 RD_{23}	15.2	X	153.86207	53.69251	174.15803	23.51393	0.1719352	0.27630675	2.3345780	21	11 21.9	19.4
101938 1999 RK_{23}	15.1	X	196.21440	67.46739	171.27529	23.67115	0.2164623	0.28389189	2.2928064	21	—	—
101939 1999 RN_{23}	16.6	X	222.15480	220.28064	111.84934	1.81525	0.1699059	0.29692558	2.2252098	21	2 23.5	20.1
101940 1999 RW_{23}	15.9	X	93.02291	339.79219	21.13103	6.00169	0.2331323	0.28327453	2.2961365	21	—	—
101941 1999 RX_{23}	15.8	X	226.66209	260.74989	33.60039	5.31613	0.2267682	0.29447048	2.2375610	21	1 12.6	19.6
101942 1999 RP_{24}	15.9	X	157.87610	214.98917	110.47038	0.40928	0.1342652	0.28776133	2.2722063	21	—	—
101943 1999 RS_{24}	15.5	X	356.26294	118.76367	193.17605	10.29685	0.2535528	0.26703761	2.3882938	21	8 15.2	17.0
101944 1999 RU_{24}	15.6	X	75.79757	203.44728	229.03413	3.59329	0.2205066	0.24194977	2.5506600	21	1 28.5	18.0
101945 1999 RP_{25}	14.4	X	279.31772	89.84990	355.73108	23.16603	0.4071077	0.17393600	3.1784087	21	8 26.8	19.2
101946 1999 RR_{26}	14.8	X	340.86329	28.70806	343.54643	9.40285	0.0901527	0.17962305	3.1109617	21	9 29.1	18.8
101947 1999 RS_{26}	16.0	X	196.40654	300.48420	225.02668	2.31949	0.0414367	0.27180256	2.3602990	21	10 21.3	19.1
101948 1999 RT_{26}	16.4	X	240.62241	283.53769	90.87428	2.43365	0.1875842	0.25794309	2.4441065	21	5 8.2	20.1
101949 1999 RX_{26}	16.4	X	260.16784	226.57819	55.18112	1.76934	0.1816694	0.29632799	2.2282005	21	1 25.4	19.9
101950 1999 RB_{29}	14.4	X	242.06175	85.75836	343.03151	30.54558	0.2203788	0.17184352	3.2041581	21	7 27.6	19.9
101951 1999 RK_{31}	15.9	X	5.50043	14.72922	1.22489	4.81711	0.1618526	0.27311823	2.3527128	21	12 13.3	18.3
101952 1999 RY_{31}	16.2	X	218.06625	209.91612	59.36323	7.92807	0.3150656	0.29119215	2.2543237	21	—	—
101953 1999 RM_{32}	16.0	X	352.14261	23.73397	356.22942	6.89351	0.1212845	0.27236219	2.3570647	21	11 17.5	18.4
101954 1999 RY_{33}	15.3	X	323.99507	100.24081	189.72502	24.52728	0.3430063	0.17460728	3.1702571	21	4 11.7	19.1
101955 Bennu	20.9	X	27.60100	66.34085	2.00174	6.03428	0.2036305	0.82496528	1.1259323	21	—	—
101956 1999 RS_{36}	15.7	X	356.05505	222.15578	189.21954	4.93488	0.1397116	0.27545996	2.3393600	21	—	—
101957 1999 RT_{36}	15.4	X	354.82733	69.26117	359.70513	12.84228	0.2531331	0.23067340	2.6331223	21	—	—
101958 1999 RS_{37}	15.7	X	90.98843	108.80893	265.02070	12.28237	0.1688866	0.24044242	2.5613091	21	—	—
101959 1999 RH_{38}	15.5	X	20.75531	355.29157	18.92573	5.92135	0.1527166	0.27464359	2.3439935	21	—	—
101960 Molau	17.0	X	98.66785	150.79916	172.03387	0.37475	0.2245839	0.28102068	2.3083972	21	—	—
101961 1999 RL_{39}	15.9	X	298.61077	252.17287	87.96785	7.63324	0.2425958	0.30577107	2.1820856	21	5 18.4	18.3
101962 1999 RV_{39}	15.5	X	288.09359	9.81808	354.56684	7.93358	0.1645613	0.26138758	2.4225872	21	6 21.6	18.6
101963 1999 RG_{40}	16.8	X	69.55580	26.37077	300.02197	1.94708	0.1871512	0.27809025	2.3245856	21	—	—
101964 1999 RU_{41}	16.1	X	94.37525	179.97012	174.73765	4.68475	0.2579630	0.23694012	2.5864871	21	—	—
101965 1999 RY_{41}	13.6	X	267.06693	169.78040	217.24679	6.21296	0.3418521	0.12526487	3.9559414	21	6 6.7	19.8
101966 1999 RO_{43}	15.6	X	248.57131	288.56600	328.15668	4.11008	0.1058188	0.29374134	2.2412622	21	—	—
101967 1999 RQ_{43}	15.8	X	11.40027	134.22385	184.57914	4.19590	0.3007214	0.31479616	2.1401773	21	11 4.9	17.2
101968 1999 RC_{45}	15.9	X	307.85320	258.48589	148.05108	8.89935	0.1734443	0.26990009	2.3713775	21	10 2.4	18.0
101969 1999 RJ_{45}	14.8	X	174.89189	243.62429	125.12774	15.07245	0.4455189	0.20354346	2.8621866	21	3 22.3	20.7
101970 1999 RR_{46}	14.9	X	9.70353	230.87876	139.75118	9.65603	0.1314007	0.23209073	2.6223914	21	11 30.7	18.1
101971 1999 RG_{48}	16.1	X	305.30775	77.73395	178.98712	4.02022	0.1337512	0.30224123	2.1990423	21	2 12.3	18.9
101972 1999 RN_{48}	15.4	X	40.46034	35.65239	314.65382	3.84990	0.3191893	0.23226306	2.6210942	21	—	—
101973 1999 RT_{48}	16.3	X	261.21559	161.26213	182.76412	5.48243	0.1788541	0.26027197	2.4295049	21	4 20.5	19.8
101974 1999 RC_{49}	16.2	X	3.91123	39.31531	333.74615	3.13407	0.2502636	0.27487923	2.3426537	21	12 22.4	18.3
101975 1999 RB_{50}	15.9	X	10.64385	182.87177	228.20656	3.92577	0.2521018	0.27917871	2.3185396	21	—	—
101976 1999 RS_{51}	16.5	X	262.89342	167.33121	203.34631	4.41986	0.1725109	0.30742102	2.1742710	21	5 25.9	19.5
101977 1999 RA_{52}	15.9	X	309.11191	340.21186	340.63293	2.27979	0.1677770	0.30882729	2.1676655	21	5 16.0	17.9
101978 1999 RZ_{52}	16.0	X	217.83160	13.54593	334.90979	4.43020	0.1436505	0.29980449	2.2109417	21	3 10.8	19.2
101979 1999 RG_{53}	14.9	X	340.87889	85.73626	272.87468	3.96584	0.1886982	0.18018986	3.1044344	21	9 8.9	18.2
101980 1999 RX_{54}	15.9	X	316.30148	344.76011	286.43366	2.90089	0.1531770	0.30447983	2.1882505	21	3 15.4	18.5
101981 1999 RB_{56}	16.0	X	144.45617	220.46054	116.11857	6.03021	0.2146644	0.24401205	2.5362683	21	—	—
101982 1999 RH_{58}	16.7	X	301.60844	347.96508	336.24478	8.07581	0.2194843	0.26261640	2.4150242	21	5 1.3	19.9
101983 1999 RL_{59}	16.1	X	263.06159	146.92713	150.90667	6.20651	0.0610212	0.29953085	2.2122881	21	2 26.8	18.7
101984 1999 RB_{61}	15.5	X	252.62451	220.05270	121.61095	3.30473	0.0851984	0.21335155	2.7737811	21	4 22.3	19.5
101985 1999 RE_{61}	16.2	X	130.89235	63.55278	271.95837	4.32915	0.1144191	0.28713806	2.2754932	21	—	—
101986 1999 RS_{62}	16.6	X	33.56355	335.11225	346.39619	3.71742	0.1885104	0.27366179	2.3495964	21	11 14.3	19.3
101987 1999 RZ_{62}	15.6	X	17.32977	92.19423	308.51951	4.98819	0.2547177	0.23257694	2.6187353	21	—	—
101988 1999 RG_{64}	14.8	X	320.96312	250.76326	124.15430	6.06825	0.1966186	0.17821197	3.1273618	21	8 25.1	18.2
101989 1999 RK_{65}	16.3	X	206.11794	310.66548	314.95908	6.45722	0.0998806	0.28862783	2.2676564	21	—	—
101990 1999 RF_{67}	16.4	X	254.45340	266.77180	341.39230	2.46677	0.1489659	0.29306411	2.2447137	21	—	—
101991 1999 RK_{67}	16.3	X	302.21486	161.54775	171.17896	10.39722	0.2176643	0.26295399	2.4129567	21	5 20.9	19.4
101992 1999 RT_{67}	14.5	X	256.39002	64.09700	330.91166	20.91046	0.1461910	0.17229521	3.1985557	21	6 29.9	19.6
101993 1999 RJ_{70}	16.1	X	300.46287	219.64164	183.63637	4.62228	0.1824374	0.26863941	2.3787907	21	9 6.0	18.2
101994 1999 RX_{70}	16.4	X	98.21051	220.06485	173.86435	6.96887	0.1879309	0.24229186	2.5482586	21	1 8.9	19.4
101995 1999 RZ_{71}	16.3	X	258.41465	329.57667	14.19743	4.93582	0.1909031	0.25830841	2.4418015	21	4 14.7	20.1
101996 1999 RE_{72}	16.0	X	186.62034	201.57864	141.42208	7.14857	0.1326881	0.29413533	2.2392603	21	2 1.5	19.2
101997 1999 RU_{75}	15.7	X	276.27059	197.93053	219.65891	4.77349	0.1013820	0.26743489	2.3859280	21	8 29.1	18.6
101998 1999 RJ_{76}	15.9	X	262.10508	74.55968	172.25765	7.08025	0.1251185	0.29279009	2.2461140	21	—	—
101999 1999 RM_{76}	15.9	X	1.17845	192.48335	171.18739	5.38329	0.2563639	0.27233339	2.3572309	21	12 4.4	17.9
102000 1999 RX_{76}	16.3	X	119.87750	243.41643	129.93453	5.71312	0.1628354	0.24298739	2.5433935	21	1 9.1	19.5

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
102001 1999 RG_{79}	14.6	X	64.98210	261.42009	358.44160	10.51446	0.0164577	0.17791471	3.1308443	21	9 1.5	19.0
102002 1999 RR_{80}	16.1	X	340.81406	210.69372	206.58436	5.67549	0.0970355	0.27621314	2.3351054	21	12 22.9	18.5
102003 1999 RX_{80}	15.8	X	251.44372	202.89136	321.25273	6.43001	0.0476964	0.27944655	2.3170578	21	—	—
102004 1999 RC_{81}	15.4	X	131.20928	101.53789	10.06662	8.84405	0.0938878	0.25641596	2.4538010	21	5 18.7	18.9
102005 1999 RS_{81}	16.2	X	254.34938	350.51298	335.91553	7.03608	0.1835597	0.30095959	2.2052810	21	3 14.9	19.6
102006 1999 RA_{82}	16.4	X	312.94496	336.01700	317.06521	4.34152	0.1747020	0.30503983	2.1855715	21	4 7.1	18.7
102007 1999 RB_{82}	15.7	X	220.64538	329.37854	287.02221	4.24601	0.1622126	0.28913651	2.2649959	21	—	—
102008 1999 RD_{82}	16.1	X	98.80502	135.73905	270.95559	3.77870	0.1754924	0.24337346	2.5407030	21	1 24.9	19.1
102009 1999 RF_{82}	14.8	X	325.11067	79.52963	291.52517	4.31157	0.1723924	0.17732156	3.1378224	21	8 27.3	18.3
102010 1999 RE_{84}	15.9	X	90.72256	72.46235	2.89853	3.44101	0.2667327	0.24435729	2.5338788	21	3 8.6	18.6
102011 1999 RR_{84}	15.8	X	139.52032	357.23121	337.66689	8.25396	0.1704965	0.28685194	2.2770061	21	—	—
102012 1999 RV_{85}	16.0	X	179.88955	342.05456	8.79844	6.87469	0.1996654	0.29354046	2.2422846	21	2 12.4	19.5
102013 1999 RX_{85}	16.0	X	103.43713	256.30692	135.67561	4.49731	0.1753844	0.28749841	2.2735914	21	—	—
102014 1999 RH_{86}	16.2	X	40.62566	170.33522	139.37658	7.01010	0.1325537	0.27190793	2.3596892	21	11 3.1	19.1
102015 1999 RK_{87}	16.9	X	190.51043	338.60121	336.83767	0.62157	0.2241667	0.29184250	2.2509734	21	1 8.4	20.3
102016 1999 RY_{87}	16.1	X	191.37935	285.86000	2.75499	5.79640	0.1646060	0.28874806	2.2670268	21	—	—
102017 1999 RD_{89}	16.4	X	205.59115	162.81390	178.13696	9.01989	0.2385067	0.29579718	2.2308654	21	2 19.2	20.2
102018 1999 RD_{90}	14.4	X	314.32356	273.70647	43.43736	5.86200	0.1420652	0.17184931	3.2040861	21	6 1.7	18.6
102019 1999 RH_{90}	15.9	X	44.26150	215.96944	142.93083	7.22267	0.0882128	0.27709170	2.3301670	21	—	—
102020 1999 RK_{90}	16.3	X	56.83383	289.45663	118.80946	4.94744	0.1801121	0.28290225	2.2981504	21	—	—
102021 1999 RV_{92}	16.1	X	250.44379	53.87716	15.75073	5.81961	0.1681928	0.26386377	2.4074071	21	8 4.4	19.4
102022 1999 RX_{92}	15.2	X	232.14496	16.23786	14.29599	5.22662	0.1111132	0.25841968	2.4411005	21	5 24.8	18.9
102023 1999 RA_{93}	16.2	X	45.83805	158.18115	162.00084	7.25658	0.2492554	0.27409225	2.3471358	21	12 9.7	19.5
102024 1999 RY_{94}	16.5	X	153.04967	356.92881	350.39295	1.19402	0.1754078	0.28928187	2.2642371	21	1 7.9	19.3
102025 1999 RC_{97}	16.6	X	92.52915	139.11279	178.18597	6.01334	0.1331321	0.27928831	2.3179330	21	—	—
102026 1999 RF_{97}	16.3	X	315.74670	358.16964	41.89544	1.71981	0.1930075	0.26954015	2.3734882	21	10 4.8	17.8
102027 1999 RC_{98}	15.4	X	218.60127	124.08248	15.19175	9.56713	0.1693899	0.26872762	2.3782701	21	9 29.9	18.9
102028 1999 RL_{98}	16.7	X	322.78500	10.42558	1.10227	0.86937	0.1968929	0.26765203	2.3846374	21	9 2.3	18.6
102029 1999 RV_{99}	16.3	X	126.22426	122.29566	202.35183	6.72748	0.1637751	0.28662941	2.2781844	21	—	—
102030 1999 RJ_{100}	16.1	X	214.55379	272.64332	354.22515	6.62908	0.0935107	0.29065163	2.2571177	21	—	—
102031 1999 RC_{105}	15.9	X	165.40300	226.24849	140.21246	6.75864	0.1863696	0.29210601	2.2496194	21	2 15.4	19.0
102032 1999 RC_{106}	15.5	X	303.14280	2.52123	281.56259	5.02041	0.1945810	0.30300310	2.1953545	21	3 8.4	18.3
102033 1999 RU_{107}	14.1	X	245.09213	289.80382	178.47744	26.94999	0.1177171	0.17956672	3.1116123	21	9 16.4	18.6
102034 1999 RW_{107}	14.4	X	161.40078	131.61602	259.64496	6.77200	0.1105636	0.16031231	3.3560221	21	3 20.0	19.7
102035 1999 RG_{108}	14.9	X	68.15055	87.01006	229.17470	10.48158	0.1474138	0.18600698	3.0393676	21	11 30.8	19.4
102036 1999 RT_{108}	16.3	X	216.63885	78.17234	274.86715	5.32689	0.1295631	0.29838368	2.2179547	21	3 13.6	19.7
102037 1999 RU_{108}	16.1	X	167.48949	12.58841	260.21713	4.87689	0.1528703	0.28415841	2.2913725	21	—	—
102038 1999 RU_{109}	16.0	X	319.47605	169.96986	226.72044	5.88905	0.1110613	0.26941924	2.3741982	21	10 11.6	18.4
102039 1999 RT_{110}	15.5	X	169.52961	337.49466	316.06520	9.79015	0.2286164	0.28559719	2.2836704	21	—	—
102040 1999 RG_{112}	13.7	X	271.71604	114.44729	279.60870	14.68867	0.2552202	0.17486358	3.1671585	21	6 28.4	18.4
102041 1999 RT_{112}	16.3	X	180.30050	122.14663	199.52841	4.64053	0.1943801	0.29290357	2.2455338	21	1 3.9	19.7
102042 1999 RB_{114}	15.9	X	249.29815	336.88653	291.42358	7.40052	0.1232344	0.29438567	2.2379907	21	—	—
102043 1999 RU_{114}	16.1	X	84.41239	202.70258	206.57569	6.52217	0.0962064	0.28844045	2.2686384	21	—	—
102044 1999 RH_{115}	16.2	X	167.90044	327.34608	349.22711	4.48236	0.1734104	0.29021064	2.2594036	21	—	—
102045 1999 RQ_{115}	14.4	X	347.95327	356.38394	330.66654	17.04319	0.2011520	0.17883526	3.1200912	21	8 13.9	17.7
102046 1999 RG_{118}	16.1	X	354.48077	204.54268	172.08132	3.21856	0.2448690	0.27376996	2.3489775	21	12 8.2	17.9
102047 1999 RO_{120}	14.1	X	346.21052	31.67045	318.35169	14.08318	0.1658726	0.18025175	3.1037238	21	9 5.7	17.6
102048 1999 RJ_{121}	16.5	X	292.98578	184.57391	146.47685	3.74591	0.1682526	0.26268047	2.4146315	21	5 12.5	19.6
102049 1999 RM_{121}	14.9	X	278.02684	83.10112	344.07472	12.74040	0.3407554	0.17441878	3.1725408	21	8 7.4	19.6
102050 1999 RP_{122}	15.8	X	226.67952	201.17099	178.56642	6.55341	0.1343258	0.25926606	2.4357849	21	5 5.7	19.6
102051 1999 RR_{122}	15.7	X	190.08032	164.62935	346.76602	2.73949	0.0272073	0.22525065	2.6752149	21	9 20.3	19.4
102052 1999 RA_{125}	15.5	X	340.08456	132.05763	198.63530	0.54446	0.2023590	0.17713335	3.1400446	21	7 30.3	18.7
102053 1999 RB_{125}	16.6	X	220.37554	47.92112	322.32294	1.63646	0.2308675	0.25565528	2.4586660	21	4 11.8	20.8
102054 1999 RC_{125}	14.3	X	279.00165	33.22561	339.13586	17.40342	0.1349889	0.17320185	3.1873839	21	6 28.3	19.1
102055 1999 RH_{126}	15.2	X	121.82362	78.06851	302.99436	5.71773	0.1848543	0.29001443	2.2604226	21	1 14.9	17.8
102056 1999 RM_{126}	15.4	X	163.05729	5.72768	319.86501	11.76205	0.2263525	0.24535054	2.5270356	21	1 5.8	19.5
102057 1999 RL_{129}	16.1	X	198.59795	1.76555	336.01402	6.25788	0.1244076	0.29602120	2.2297397	21	2 7.6	19.2
102058 1999 RT_{129}	15.2	X	12.25146	191.11980	117.10421	2.31916	0.1682306	0.22496466	2.6774817	21	9 9.8	17.9
102059 1999 RM_{131}	16.4	X	217.79477	136.30293	237.50583	6.37691	0.2079325	0.30118520	2.2041795	21	4 10.5	20.0
102060 1999 RZ_{131}	15.9	X	186.14147	67.70433	249.84503	4.37925	0.1498096	0.29238074	2.2482100	21	1 1.1	19.1
102061 1999 RC_{132}	15.6	X	49.22742	141.47351	229.68350	3.54697	0.3047873	0.23391621	2.6087302	21	—	—
102062 1999 RN_{132}	14.1	X	336.62544	350.28189	318.42442	16.33808	0.2489481	0.17631503	3.1497530	21	6 16.7	17.6
102063 1999 RR_{134}	14.5	X	4.60689	28.53151	314.89282	7.91721	0.1648021	0.18168709	3.0873557	21	10 2.8	18.2
102064 1999 RW_{134}	14.8	X	287.93498	77.84627	287.61798	2.99351	0.2345592	0.17391563	3.1786568	21	6 13.7	19.3
102065 1999 RC_{136}	16.2	X	280.21368	207.31297	123.85382	3.41370	0.1728703	0.26042720	2.4285394	21	4 25.9	19.6
102066 1999 RV_{137}	16.1	X	267.44966	321.86609	341.95067	5.06363	0.1855661	0.30144731	2.2029017	21	2 27.9	19.2
102067 1999 RF_{138}	16.3	X	319.23804	13.30726	15.03102	2.06954	0.3691508	0.22313147	2.6921268	21	8 17.4	18.1
102068 1999 RC_{139}	15.8	X	100.15676	195.24369	192.26296	5.00285	0.1624797	0.28831861	2.2692775	21	—	—
102069 1999 RF_{139}	16.5	X	17.43379	131.54309	237.86759	1.35126	0.2254762	0.27583267	2.3372522	21	—	—
102070 1999 RH_{139}	16.5	X	24.25946	158.31196	165.67992	2.37748	0.2285776	0.27301401	2.3533115	21	11 12.4	18.8
102071 1999 RK_{139}	16.2	X	186.76349	219.65080	161.59017	7.43854	0.1332659	0.29882857	2.2157528	21	3 24.4	19.4
102072 1999 RE_{140}	14.2	X	347.85554	292.17900	312.51507	16.83184	0.0729192	0.16858331	3.2453360	21	4 18.9	18.8
102073 1999 RT_{140}	16.0	X	130.12119	201.42560	180.45260	2.64474	0.1077770	0.29175711	2.2514126	21	1 14.0	18.7
102074 1999 RN_{143}	15.7	X	292.41012	207.56689	175.63589	8.62117	0.3133107	0.26458228	2.4030467	21	6 29.3	18.8
102075 1999 RC_{144}	15.9	X	316.20953	103.58477	320.47208	6.05350	0.0991092	0.27342439	2.3509563	21	11 16.3	18.3
102076 1999 RL_{144}	16.0	X	165.87366	37.40722	261.60729	4.94431	0.1864307	0.28778685	2.2720720	21	—	—
102077 1999 RL_{146}	16.6	X	27.79567	127.30125	227.67418	3.31818	0.1803278	0.27569508	2.3380298	21	12 22.4	19.2
102078 1999 RS_{147}	14.4	X	289.14136	78.04777	313.21610	10.83359	0.1252065	0.17587909	3.1549555	21	8 4.5	18.4
102079 1999 RV_{147}	15.8	X	254.17302	7.16482	279.51047	4.12700	0.1314575	0.29728452	2.2234183	21	1 27.1	18.9
102080 1999 RP_{148}	15.9	X	354.44104	350.62349	325.57552	6.90090	0.1204584	0.26781592	2.3836645	21	8 16.8	17.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
102081 1999 RB_{149}	16.1	X	278.24313	10.88809	335.10469	3.09474	0.2118156	0.26127406	2.4232889	21	5 5.4	19.7
102082 1999 RK_{149}	14.9	X	294.93164	188.22634	143.22884	3.30015	0.1733393	0.17247387	3.1963465	21	5 20.5	19.3
102083 1999 RO_{149}	15.3	X	281.83120	282.61215	342.45902	3.40780	0.1617479	0.29899090	2.2149507	21	1 26.5	18.3
102084 1999 RF_{150}	15.1	X	307.80154	187.24008	162.31273	6.08752	0.1909720	0.17493666	3.1662764	21	6 27.6	19.1
102085 1999 RK_{150}	14.6	X	332.74429	328.49900	341.25513	18.33631	0.2722759	0.17581275	3.1557492	21	6 1.6	18.4
102086 1999 RT_{150}	16.0	X	247.01913	348.76118	35.25368	2.38999	0.2087435	0.26066950	2.4270342	21	5 24.0	19.8
102087 1999 RT_{151}	14.7	X	310.17166	285.59800	131.03727	5.85121	0.2783070	0.17861704	3.1226319	21	9 20.2	18.0
102088 1999 RA_{152}	16.4	X	74.16329	186.60754	143.08179	3.56190	0.2520899	0.27940396	2.3172933	21	—	—
102089 1999 RK_{152}	16.1	X	294.76847	57.92796	178.98552	3.29640	0.1493764	0.29685945	2.2255403	21	1 4.3	19.3
102090 1999 RP_{153}	16.2	X	262.99484	197.10168	189.50933	10.16230	0.2734271	0.26214613	2.4179116	21	6 6.7	20.0
102091 1999 RL_{154}	16.7	X	34.68184	99.29359	224.74436	1.58606	0.2179615	0.27386255	2.3484480	21	11 25.6	19.4
102092 1999 RD_{155}	14.7	X	274.90649	73.43963	334.60816	15.70316	0.2403787	0.17423536	3.1747669	21	7 25.2	19.4
102093 1999 RH_{155}	14.0	X	11.50084	281.46300	313.96259	10.86192	0.2126678	0.17131826	3.2107041	21	5 20.2	17.5
102094 1999 RH_{156}	14.6	X	329.54156	10.75357	298.14010	4.31210	0.1682720	0.17417904	3.1754512	21	6 12.4	18.4
102095 1999 RK_{156}	15.1	X	195.34078	141.12032	273.42428	2.34220	0.1875120	0.25691173	2.4506432	21	5 17.1	19.0
102096 1999 RX_{156}	16.5	X	73.79629	75.76820	247.90587	1.17576	0.2336172	0.27867672	2.3213231	21	—	—
102097 1999 RZ_{157}	15.7	X	32.73555	332.34855	51.52083	3.42423	0.1546409	0.27893890	2.3198683	21	—	—
102098 1999 RJ_{158}	16.3	X	332.82786	284.84751	17.15867	2.93910	0.1737093	0.26395379	2.4068597	21	6 2.6	18.6
102099 1999 RW_{158}	16.4	X	281.35179	178.18447	133.33331	2.37923	0.1965498	0.25837938	2.4413543	21	3 28.9	19.8
102100 1999 RG_{159}	16.0	X	36.54912	228.50175	144.65676	6.08953	0.2685438	0.23236587	2.6203210	21	—	—
102101 1999 RZ_{159}	16.0	X	352.75158	8.38928	64.51881	3.39460	0.1277979	0.27950317	2.3167450	21	—	—
102102 1999 RK_{160}	16.3	X	299.67574	317.35747	23.87336	4.07326	0.2133857	0.30845606	2.1694044	21	5 24.0	18.7
102103 1999 RA_{161}	16.4	X	60.03607	292.52893	2.38830	6.46612	0.1127247	0.27213683	2.3583658	21	11 1.1	19.5
102104 1999 RV_{161}	16.8	X	279.24000	285.97791	38.60866	2.85431	0.1880847	0.25958525	2.4337878	21	4 12.9	20.3
102105 1999 RA_{163}	14.4	X	270.74694	247.17258	180.71341	17.73383	0.1858790	0.17586949	3.1550704	21	8 15.2	19.1
102106 1999 RB_{163}	15.6	X	127.62713	65.84281	315.07231	5.24128	0.2932457	0.24402605	2.5361713	21	2 13.8	19.4
102107 1999 RL_{164}	15.7	X	166.40244	235.56564	186.27441	6.05395	0.2419640	0.25327742	2.4740306	21	5 4.9	20.0
102108 1999 RZ_{165}	15.3	X	175.81584	334.04032	151.88655	1.65263	0.1297186	0.26392528	2.4070331	21	7 31.1	18.9
102109 1999 RD_{166}	16.9	X	206.86158	318.47702	6.99868	3.60107	0.2744188	0.29552960	2.2322117	21	2 4.9	20.9
102110 1999 RV_{166}	14.5	X	309.89231	293.28082	10.64045	11.21706	0.1183248	0.17087302	3.2162790	21	5 9.7	18.9
102111 1999 RQ_{167}	15.2	X	349.02451	39.47108	20.19492	5.84688	0.1899700	0.27628819	2.3346826	21	—	—
102112 1999 RR_{167}	16.4	X	182.64189	279.51422	6.18249	6.24607	0.1276574	0.28786394	2.2716663	21	—	—
102113 1999 RZ_{167}	15.2	X	67.07771	35.86140	356.95115	8.13963	0.1127170	0.28403598	2.2920309	21	—	—
102114 1999 RW_{168}	13.5	X	187.98721	123.09384	343.03521	13.49432	0.1105372	0.17145823	3.2089565	21	7 20.3	18.7
102115 1999 RZ_{168}	15.4	X	101.40053	26.76486	333.45362	2.30992	0.1510022	0.28475252	2.2881843	21	—	—
102116 1999 RM_{170}	16.2	X	202.56710	242.11301	169.03323	2.41388	0.1875232	0.25704049	2.4498248	21	5 20.3	20.1
102117 1999 RW_{170}	16.3	X	57.04438	226.73503	158.46899	4.37109	0.2303111	0.23572600	2.5953607	21	—	—
102118 1999 RX_{170}	16.0	X	222.97523	250.29758	165.14653	12.15284	0.1824335	0.26005235	2.4308726	21	6 14.2	20.1
102119 1999 RO_{171}	16.3	X	193.00892	19.26306	1.43551	7.77501	0.2252957	0.25279221	2.4771954	21	4 2.9	20.6
102120 1999 RO_{172}	14.2	X	335.77942	60.88634	6.35434	11.67706	0.1496096	0.27604604	2.3360476	21	—	—
102121 1999 RL_{174}	16.5	X	42.97194	168.48078	108.69547	2.17958	0.1750779	0.26965776	2.3727980	21	9 26.4	19.0
102122 1999 RG_{175}	16.0	X	211.74277	16.49598	354.46607	5.43789	0.1441496	0.25447016	2.4662938	21	4 6.7	19.7
102123 1999 RP_{175}	14.5	X	321.33513	326.78237	341.01762	5.77737	0.1003112	0.17167813	3.2062157	21	6 5.5	18.7
102124 1999 RB_{177}	15.9	X	96.00917	227.41639	181.55885	3.31512	0.2125023	0.24289426	2.5440436	21	1 29.7	18.7
102125 1999 RQ_{177}	16.6	X	219.06133	148.34137	162.90500	5.78770	0.1804812	0.29499165	2.2349248	21	1 24.5	20.2
102126 1999 RW_{177}	16.3	X	183.19139	269.35502	3.90590	6.61207	0.1636127	0.28654191	2.2786482	21	—	—
102127 1999 RY_{177}	16.3	X	161.29375	147.92190	161.24748	9.82900	0.2183649	0.28788161	2.2715734	21	—	—
102128 1999 RC_{178}	16.0	X	117.20239	277.28513	109.14424	2.38427	0.2114368	0.24347278	2.5400120	21	1 30.2	19.2
102129 1999 RM_{179}	15.7	X	76.41191	341.96491	46.42495	5.19489	0.1302002	0.28448500	2.2896185	21	—	—
102130 1999 RT_{179}	16.4	X	300.47504	187.58896	121.58652	5.96091	0.2307320	0.26051459	2.4279963	21	4 14.3	19.7
102131 1999 RX_{179}	16.1	X	28.79318	242.71913	112.81844	6.32424	0.1285012	0.27541864	2.3395940	21	12 16.7	18.8
102132 1999 RH_{180}	15.7	X	312.12682	306.03599	98.79616	7.48092	0.1423959	0.27027937	2.3691585	21	10 13.9	18.0
102133 1999 RB_{181}	16.5	X	75.69603	302.16694	67.77224	1.72752	0.2236998	0.28205483	2.3027512	21	—	—
102134 1999 RD_{181}	16.5	X	17.23987	253.54933	55.13274	2.00624	0.1933523	0.26950569	2.3736905	21	10 1.0	18.6
102135 1999 RN_{182}	16.6	X	36.92204	330.42546	323.46657	1.66878	0.2085650	0.27064697	2.3670128	21	10 14.8	19.1
102136 1999 RO_{182}	15.4	X	163.07524	195.82904	334.64468	5.84130	0.0568898	0.26830241	2.3807822	21	9 14.6	18.5
102137 1999 RR_{182}	16.1	X	290.99161	146.99993	180.36271	7.58239	0.2006024	0.30563619	2.1827276	21	4 26.2	18.7
102138 1999 RS_{182}	16.0	X	296.92739	97.21946	261.32747	1.05048	0.2236245	0.26372736	2.4082372	21	6 16.0	18.5
102139 1999 RO_{183}	16.0	X	317.46370	33.49689	4.23806	6.97748	0.1051448	0.27033574	2.3688292	21	10 10.3	18.4
102140 1999 RS_{184}	15.6	X	37.65854	269.15420	116.46293	5.18070	0.1507410	0.27899423	2.3195615	21	—	—
102141 1999 RT_{184}	15.4	X	262.98372	307.52693	102.24131	4.94658	0.1341802	0.26451939	2.4034276	21	7 26.8	18.3
102142 1999 RB_{185}	16.2	X	70.03713	253.40375	114.96484	5.38158	0.2758222	0.23569809	2.5955656	21	—	—
102143 1999 RC_{186}	16.4	X	309.25142	263.43213	131.38284	2.06190	0.1944187	0.26870893	2.3783804	21	9 10.7	18.4
102144 1999 RA_{188}	15.9	X	237.87919	336.76719	1.29595	6.87437	0.1546723	0.25465302	2.4651130	21	3 22.1	19.7
102145 1999 RQ_{188}	16.1	X	115.88644	328.25004	54.44253	2.52947	0.1804462	0.24314881	2.5422678	21	1 19.4	19.2
102146 1999 RW_{191}	16.3	X	32.64505	91.39907	342.87246	3.51221	0.2394958	0.23753741	2.5821495	21	—	—
102147 1999 RC_{192}	15.7	X	303.11438	178.06871	260.77024	6.71657	0.1604322	0.27350591	2.3504891	21	11 10.4	17.8
102148 1999 RA_{195}	15.4	X	273.53418	187.46442	273.89435	12.47063	0.1348755	0.27354177	2.3502836	21	10 19.4	18.4
102149 1999 RH_{197}	15.9	X	267.09713	99.69131	233.04774	5.16233	0.2283429	0.30313818	2.1947023	21	3 31.4	19.2
102150 1999 RQ_{197}	13.8	X	340.41145	289.43778	336.25157	25.16921	0.2465880	0.17153321	3.2080213	21	4 8.8	17.9
102151 1999 RA_{198}	16.2	X	148.07477	68.36769	235.35012	5.89468	0.1960886	0.28525304	2.2855069	21	—	—
102152 1999 RL_{201}	14.4	X	281.01619	212.01916	202.58324	18.49192	0.3193734	0.17340135	3.1849386	21	7 21.3	19.4
102153 1999 RM_{201}	16.2	X	306.10247	38.84763	263.98025	6.50202	0.1844023	0.30471134	2.1871420	21	4 8.9	18.8
102154 1999 RK_{203}	15.4	X	179.27819	144.85873	296.46377	13.88208	0.1302899	0.25714140	2.4491838	21	6 5.4	19.3
102155 1999 RV_{203}	15.6	X	95.26369	12.44548	275.07452	8.88891	0.0287353	0.27434440	2.3456974	21	11 26.5	18.6
102156 1999 RV_{204}	15.9	X	103.10012	57.12146	314.89160	13.32364	0.2427899	0.23950283	2.5680035	21	—	—
102157 1999 RV_{206}	14.2	X	280.98348	100.15827	312.12398	15.07369	0.2367394	0.17316972	3.1877781	21	8 3.6	18.7
102158 1999 RC_{209}	15.7	X	329.96135	107.98261	274.30384	4.68002	0.1101000	0.26897216	2.3768284	21	10 8.2	18.1
102159 1999 RY_{213}	16.5	X	250.81427	82.89369	160.56539	2.23506	0.1192429	0.29349368	2.2425229	21	—	—
102160 1999 RG_{216}	15.7	X	76.27672	255.22754	125.61214	4.11510	0.1389536	0.28273504	2.2990564	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
102161 1999 RM_{217}	14.9	X	89.48700	49.85826	319.18634	11.30335	0.1427555	0.28696169	2.2764255	21	—	—
102162 1999 RH_{219}	16.8	X	316.54229	45.08715	289.55049	0.40147	0.1867845	0.26434092	2.4045092	21	6 20.4	19.1
102163 1999 RT_{219}	15.9	X	269.78809	216.69387	92.77516	5.68609	0.2000467	0.30127093	2.2037614	21	3 11.1	19.2
102164 1999 RE_{220}	16.0	X	114.64360	359.53853	289.73905	5.90739	0.1074469	0.27907353	2.3191221	21	12 28.1	19.3
102165 1999 RH_{220}	13.8	X	96.97788	87.47646	330.95001	15.62065	0.2167011	0.15351632	3.4543501	21	2 28.1	18.7
102166 1999 RR_{221}	15.9	X	124.10672	3.05886	320.66200	5.72809	0.1493744	0.28227020	2.3015798	21	—	—
102167 1999 RC_{223}	13.8	X	216.85259	343.97788	316.52295	15.90679	0.1055369	0.15740742	3.3971854	21	1 31.3	19.1
102168 1999 RD_{227}	16.3	X	340.74408	21.34003	287.39144	5.74996	0.1255674	0.26503483	2.4003104	21	7 6.7	18.3
102169 1999 RT_{227}	15.9	X	16.03984	159.00128	135.90432	9.98024	0.2423934	0.26894461	2.3769907	21	9 16.9	17.8
102170 1999 RA_{230}	15.6	X	82.46117	314.15083	63.25090	4.96683	0.1773628	0.28485925	2.2876127	21	—	—
102171 1999 RH_{230}	16.6	X	155.29888	209.11478	109.62041	6.64579	0.1912545	0.28873775	2.2670808	21	—	—
102172 1999 RW_{230}	15.7	X	232.78408	264.87487	62.20899	6.18928	0.2104573	0.29795831	2.2200651	21	2 28.4	19.3
102173 1999 RQ_{233}	16.1	X	266.36869	329.19417	77.04837	6.87890	0.1380926	0.26443711	2.4039261	21	7 26.7	19.1
102174 1999 RG_{234}	15.8	X	99.62757	328.09838	73.80820	6.23569	0.3138002	0.24161423	2.5530210	21	2 14.8	19.0
102175 1999 RK_{234}	16.9	X	201.51780	291.17527	73.99881	4.57318	0.2070816	0.29746726	2.2225077	21	3 21.1	20.5
102176 1999 RV_{235}	15.7	X	86.76551	304.27383	27.94520	15.15212	0.0735597	0.27954931	2.3164900	21	—	—
102177 1999 RS_{236}	15.7	X	310.68305	342.95252	72.45812	7.70596	0.1083792	0.27089707	2.3655557	21	10 28.5	18.0
102178 1999 RD_{237}	15.9	X	304.86553	319.63123	58.85684	6.26574	0.1495152	0.26592775	2.3949343	21	8 15.9	18.4
102179 1999 RX_{237}	15.7	X	251.01119	274.01817	124.13962	9.40071	0.2511885	0.26039882	2.4287158	21	6 12.7	19.6
102180 1999 RV_{238}	15.8	X	120.02093	212.14196	65.94452	7.48966	0.1495251	0.27767179	2.3269205	21	12 19.8	19.4
102181 1999 RT_{240}	15.2	X	92.07517	309.81071	47.26915	14.61020	0.2090598	0.23719074	2.5846648	21	—	—
102182 1999 RN_{241}	15.4	X	260.26090	141.30508	185.75128	5.98347	0.0729830	0.21010010	2.8023252	21	4 13.5	19.4
102183 1999 RL_{242}	16.4	X	104.78132	225.36247	122.96323	5.72410	0.2050031	0.28397223	2.2923740	21	—	—
102184 1999 RX_{242}	16.0	X	144.32741	264.61499	70.87976	6.57554	0.1378167	0.28761023	2.2730021	21	—	—
102185 1999 RJ_{250}	16.6	X	174.28808	101.74098	182.95787	5.25041	0.1719007	0.28574847	2.2828644	21	—	—
102186 1999 RC_{251}	17.3	X	238.87501	89.85250	347.28108	0.90151	0.1659251	0.26433000	2.4045755	21	7 30.4	20.7
102187 1999 RQ_{253}	16.5	X	284.10562	178.30572	178.92519	5.75438	0.1225048	0.26138089	2.4226285	21	6 12.9	19.6
102188 1999 RD_{255}	16.5	X	160.00055	113.98820	155.53826	7.61661	0.2405593	0.28547625	2.2843154	21	—	—
102189 1999 SX_{1}	14.2	X	355.23643	13.00267	323.65767	29.46286	0.2447595	0.17879315	3.1205810	21	9 1.7	17.5
102190 1999 SR_{3}	14.4	X	38.90018	47.81465	344.67477	12.83688	0.3317726	0.23004951	2.6378809	21	—	—
102191 1999 SH_{4}	15.9	X	48.21838	0.70679	293.35404	2.22109	0.2061316	0.27135530	2.3628919	21	10 30.6	18.9
102192 1999 SP_{5}	15.4	X	110.11684	352.37057	23.37447	25.85778	0.1923136	0.28738041	2.2742137	21	—	—
102193 1999 SD_{6}	15.6	X	128.91810	275.96803	113.65323	6.81557	0.2220482	0.24509396	2.5287990	21	2 19.2	19.2
102194 1999 SV_{7}	15.6	X	101.46095	289.07628	104.23848	7.26511	0.1586864	0.28859181	2.2678451	21	—	—
102195 1999 ST_{10}	15.6	X	16.68135	261.59083	100.54317	7.33379	0.1418817	0.27210431	2.3585537	21	12 9.5	18.2
102196 1999 SC_{11}	15.0	X	169.59699	78.66397	55.87338	13.30168	0.0706937	0.26052172	2.4279519	21	8 10.3	18.7
102197 1999 SR_{11}	15.7	X	259.48934	230.97280	181.57090	12.37217	0.1913347	0.26156062	2.4215186	21	7 15.2	19.3
102198 1999 SU_{11}	15.7	X	340.95593	258.67798	161.56968	6.39928	0.1179368	0.27297595	2.3535303	21	12 28.6	18.1
102199 1999 SE_{13}	15.0	X	284.92870	36.86289	56.53639	14.15120	0.2240181	0.22444951	2.6815770	21	10 15.5	18.2
102200 1999 SU_{13}	16.3	X	318.99593	146.12915	185.97896	5.64656	0.1985627	0.26380047	2.4077922	21	6 19.2	18.7
102201 1999 SD_{15}	15.5	X	301.36089	125.34314	310.15694	9.21209	0.2072483	0.22495893	2.6775272	21	10 10.9	18.6
102202 1999 SC_{17}	14.8	X	44.10913	350.16325	292.16040	12.39976	0.1828326	0.22554758	2.6728665	21	9 22.0	18.4
102203 1999 SC_{19}	15.9	X	232.33962	297.16635	107.97703	9.37291	0.1600983	0.25915713	2.4364674	21	6 11.5	19.6
102204 1999 SE_{19}	15.1	X	282.73834	241.28162	123.93348	10.44125	0.2144134	0.21691959	2.7432804	21	6 10.1	19.0
102205 1999 SB_{20}	15.7	X	183.89761	226.62686	82.93564	8.74015	0.1553787	0.28904089	2.2654954	21	—	—
102206 1999 SM_{20}	15.7	X	41.79039	219.03678	103.92438	10.36558	0.1761586	0.27246122	2.3564935	21	11 28.9	18.7
102207 1999 SK_{21}	16.7	X	40.76779	118.55557	351.13147	2.49609	0.0286584	0.24233221	2.5479757	21	1 7.8	19.7
102208 1999 SD_{22}	15.9	X	136.83093	330.17095	56.49657	4.52931	0.1902916	0.24513577	2.5285115	21	2 20.7	19.6
102209 1999 SG_{25}	15.9	X	85.69259	248.20584	183.81423	12.57324	0.1188868	0.24388870	2.5371234	21	1 28.2	19.0
102210 1999 SE_{27}	15.3	X	145.92917	186.09374	243.47572	6.10568	0.1096065	0.25226497	2.4806457	21	4 12.5	18.9
102211 Angelofaggiano	16.2	X	296.63994	192.64505	209.01606	1.69912	0.2329536	0.26511487	2.3998273	21	8 17.6	18.5
102212 1999 TA_{1}	16.4	X	11.88074	177.69910	174.17077	2.70803	0.2172589	0.27138679	2.3627090	21	11 29.3	18.7
102213 1999 TL_{1}	15.3	X	144.00687	192.58097	196.61529	6.29023	0.1993248	0.24561794	2.5252012	21	2 28.3	19.1
102214 1999 TO_{1}	15.3	X	294.26424	350.58700	16.05046	11.28554	0.1682669	0.26247730	2.4158773	21	7 5.2	18.3
102215 1999 TR_{3}	16.2	X	184.41999	81.26781	203.29470	4.74832	0.1692133	0.28589856	2.2820653	21	—	—
102216 1999 TG_{4}	14.6	X	301.75966	60.01904	315.92399	8.75841	0.2394274	0.17774926	3.1327869	21	7 16.9	18.5
102217 1999 TW_{4}	15.0	X	167.20419	334.92657	21.91278	17.89410	0.2099225	0.24554222	2.5257204	21	2 21.5	19.4
102218 1999 TA_{6}	14.3	X	112.72631	27.98835	354.41669	9.53790	0.0807254	0.15315280	3.4598140	21	1 21.4	19.3
102219 1999 TB_{6}	16.4	X	148.83817	237.17037	96.61169	3.85072	0.0878178	0.28596016	2.2817376	21	—	—
102220 1999 TJ_{8}	16.0	X	236.84862	34.23977	35.93775	3.16774	0.1907522	0.26077689	2.4263679	21	7 16.5	19.6
102221 1999 TT_{9}	16.3	X	200.04106	205.18029	205.18781	2.93805	0.2222869	0.25441199	2.4666697	21	5 16.5	20.3
102222 1999 TA_{12}	16.2	X	57.39104	130.66476	207.99777	1.89600	0.2306443	0.27625959	2.3348437	21	—	—
102223 1999 TE_{12}	15.5	X	275.34158	46.40209	59.49286	8.94617	0.1364231	0.22354081	2.6888392	21	10 27.6	18.8
102224 Raffaellolena	16.3	X	331.16579	237.12510	151.16334	2.85911	0.1927850	0.26819299	2.3814297	21	10 24.1	17.8
102225 1999 TU_{12}	16.0	X	46.23284	214.38923	178.38251	6.86897	0.2083722	0.27882110	2.3205216	21	—	—
102226 1999 TL_{13}	16.5	X	225.21534	306.52608	38.26731	5.67684	0.2341679	0.29755328	2.2220793	21	3 14.9	20.2
102227 1999 TB_{14}	16.0	X	93.17130	208.97531	183.56521	8.20674	0.1865515	0.23937371	2.5689269	21	—	—
102228 1999 TG_{15}	15.6	X	240.45541	226.51137	203.48887	7.73744	0.1886251	0.21616351	2.7496735	21	7 17.2	20.0
102229 1999 TS_{17}	16.0	X	285.54639	218.83352	202.65836	4.29618	0.1296647	0.26669666	2.3903289	21	9 14.9	18.5
102230 1999 TA_{18}	15.2	X	187.25881	142.12074	237.16111	1.17421	0.1400336	0.20493525	2.8492131	21	3 30.1	19.7
102231 1999 TS_{18}	16.2	X	307.20444	164.82091	163.16294	5.42558	0.1599713	0.26029676	2.4293507	21	5 30.8	19.0
102232 1999 TX_{18}	16.5	X	285.85038	146.40551	211.24341	3.74110	0.2565028	0.30581728	2.1818658	21	5 23.4	19.3
102233 1999 TJ_{19}	15.4	X	118.92325	338.04352	24.69478	3.05909	0.2091218	0.23899081	2.5716700	21	1 2.7	18.7
102234 Olivebyrne	16.5	X	330.38817	359.62668	353.66283	1.94309	0.2204432	0.26654169	2.3912553	21	8 18.6	18.0
102235 1999 TN_{21}	16.1	X	157.59068	311.75784	243.63737	6.10849	0.0632987	0.26524272	2.3990561	21	10 10.1	19.5
102236 1999 TO_{21}	16.3	X	239.84389	94.76703	151.45834	7.53346	0.0934833	0.29183900	2.2509914	21	—	—
102237 1999 TQ_{21}	14.8	X	26.24744	33.95694	55.92028	11.12353	0.0741189	0.18995105	2.9971484	21	—	—
102238 1999 TH_{22}	16.5	X	198.53755	46.64164	43.98230	3.29511	0.1637054	0.25921933	2.4360776	21	7 7.0	20.3
102239 1999 TK_{22}	15.0	X	95.70070	205.68841	19.25584	13.84745	0.0771115	0.22063743	2.7123762	21	9 10.5	18.9
102240 1999 TN_{22}	16.3	X	102.83418	187.39074	48.84911	3.22174	0.1630479	0.26970556	2.3725176	21	10 12.7	19.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
102241 1999 TT_{22}	16.4	X	133.53988	183.86310	49.87969	3.52456	0.1234036	0.27274977	2.3548312	21	11 6.5	19.8
102242 1999 TE_{25}	16.2	X	346.81358	209.56692	214.22524	5.21976	0.1216520	0.27457272	2.3443968	21	—	—
102243 1999 TE_{26}	15.2	X	9.78871	25.06602	21.01496	10.86211	0.1022200	0.27529270	2.3403075	21	—	—
102244 1999 TJ_{26}	15.8	X	326.21754	175.85127	220.47305	3.72857	0.1548292	0.26851111	2.3795484	21	10 24.2	17.5
102245 1999 TO_{26}	15.6	X	77.70419	293.26086	17.24391	1.31792	0.1310128	0.27421274	2.3464481	21	12 16.9	18.9
102246 1999 TV_{26}	16.2	X	330.29818	43.91912	336.33266	1.52281	0.2082622	0.26763861	2.3847171	21	10 5.5	17.6
102247 1999 TY_{26}	16.5	X	95.79074	182.78210	217.74257	4.05089	0.1065111	0.28529899	2.2852614	21	—	—
102248 1999 TD_{27}	15.8	X	238.83066	281.89838	21.17777	6.83414	0.2517652	0.29458849	2.2369633	21	2 2.7	19.7
102249 1999 TE_{27}	15.1	X	103.27885	341.20580	26.79299	14.09418	0.1854571	0.23759908	2.5817026	21	—	—
102250 1999 TU_{27}	15.1	X	80.86192	307.49743	35.90095	13.98071	0.1710721	0.23175903	2.6248930	21	—	—
102251 1999 TD_{28}	16.2	X	71.84754	331.76146	5.98487	2.54032	0.1888470	0.27660288	2.3329114	21	—	—
102252 1999 TG_{28}	16.2	X	82.87079	59.11350	266.70021	1.17240	0.2296504	0.27702724	2.3305284	21	—	—
102253 1999 TH_{28}	16.3	X	17.81475	84.45297	262.88239	1.12349	0.2262626	0.27083016	2.3659453	21	12 3.5	18.6
102254 1999 TO_{28}	16.5	X	5.07305	15.74819	302.60878	1.43049	0.1933038	0.26825956	2.3810357	21	9 17.9	18.3
102255 1999 TR_{29}	16.4	X	26.26367	88.59005	204.24909	3.08783	0.1088345	0.26697252	2.3886820	21	9 7.9	18.9
102256 1999 TP_{30}	16.4	X	223.91370	64.86510	318.50873	1.23158	0.2132230	0.25589061	2.4571584	21	5 1.9	20.5
102257 1999 TZ_{30}	16.3	X	305.46231	353.86933	332.13347	2.04363	0.2235251	0.26117126	2.4239247	21	5 11.9	19.2
102258 1999 TR_{31}	16.7	X	272.91115	178.43950	215.18274	2.50259	0.1826218	0.26247262	2.4159060	21	7 8.7	19.8
102259 1999 TK_{32}	16.0	X	72.63067	304.80754	359.45417	3.19268	0.2246695	0.27448507	2.3448959	21	12 12.9	19.5
102260 1999 TM_{33}	16.2	X	269.92045	51.78783	11.17277	6.04609	0.1020305	0.26515196	2.3996035	21	8 31.6	19.1
102261 1999 TF_{34}	16.8	X	44.16533	259.81716	149.42288	4.33608	0.2680434	0.23484446	2.6018515	21	—	—
102262 1999 TJ_{34}	16.4	X	66.75476	184.19283	160.81199	5.04651	0.1864900	0.27809344	2.3245678	21	—	—
102263 1999 TF_{37}	15.8	X	173.93557	236.96984	88.98249	10.24020	0.2312663	0.28881262	2.2666890	21	1 7.9	19.2
102264 1999 TU_{37}	15.8	X	33.99537	209.47573	204.97554	6.95681	0.0916380	0.28239275	2.3009138	21	—	—
102265 1999 TK_{38}	15.7	X	175.01852	302.78494	186.36630	6.15268	0.0615345	0.26241305	2.4162717	21	8 2.5	19.2
102266 1999 TD_{40}	16.2	X	347.24253	353.43204	58.36004	3.73975	0.1668959	0.27403451	2.3474654	21	—	—
102267 1999 TZ_{40}	15.6	X	89.85889	18.91797	34.18015	5.96199	0.2563358	0.24128946	2.5553113	21	2 5.7	18.4
102268 1999 TU_{43}	16.6	X	204.43335	119.02198	357.86745	4.58834	0.1443563	0.26442984	2.4039702	21	8 18.6	20.2
102269 1999 TH_{44}	16.0	X	163.20571	201.80824	309.13560	2.38769	0.0884811	0.26210760	2.4181486	21	8 19.7	19.4
102270 1999 TH_{45}	16.5	X	213.38974	288.04823	215.86554	7.05217	0.1236487	0.26708495	2.3880116	21	10 2.4	20.0
102271 1999 TK_{45}	16.5	X	174.58606	120.62553	339.87862	2.51521	0.1041196	0.25694330	2.4504425	21	6 25.9	20.0
102272 1999 TG_{46}	14.8	X	316.76409	348.01140	16.31305	16.45337	0.1091301	0.17468413	3.1693272	21	8 20.3	19.1
102273 1999 TM_{46}	15.9	X	235.00771	262.42389	26.94182	6.12422	0.1351505	0.29292604	2.2454190	21	1 14.3	19.4
102274 1999 TV_{46}	16.7	X	32.56143	347.49854	23.35687	3.07707	0.1793147	0.27608877	2.3358066	21	—	—
102275 1999 TW_{50}	15.5	X	296.03946	192.31601	189.90289	2.94143	0.0970209	0.22042984	2.7140788	21	8 7.7	18.8
102276 1999 TJ_{53}	16.9	X	18.56240	55.64309	220.72226	5.04188	0.1598106	0.30879084	2.1678361	21	8 6.6	18.5
102277 1999 TY_{54}	17.2	X	150.21370	119.64604	4.25655	2.37999	0.0861018	0.25684404	2.4510738	21	6 29.3	20.6
102278 1999 TH_{55}	16.5	X	22.29009	78.37356	18.54483	3.48383	0.1428502	0.23689843	2.5867905	21	—	—
102279 1999 TS_{57}	16.5	X	145.93508	245.05182	32.25476	6.58398	0.1586287	0.27893171	2.3199082	21	—	—
102280 1999 TE_{59}	16.2	X	246.86486	305.53827	182.10754	4.08458	0.0306291	0.22263714	2.6961102	21	10 31.7	19.9
102281 1999 TM_{59}	16.3	X	59.95591	36.74810	332.30707	4.44890	0.1259160	0.23502545	2.6005155	21	—	—
102282 1999 TX_{62}	16.5	X	12.13089	46.32874	209.59146	1.57669	0.1768863	0.25788880	2.4444495	21	6 18.8	18.3
102283 1999 TG_{63}	15.4	X	299.60126	242.78920	210.39878	12.33497	0.2503629	0.22349524	2.6892047	21	11 1.5	18.0
102284 1999 TM_{63}	15.7	X	78.92421	292.29299	110.12796	1.85594	0.0928839	0.23689952	2.5867826	21	—	—
102285 1999 TP_{63}	16.2	X	240.98150	173.36377	200.21783	4.81411	0.1989794	0.25524256	2.4613157	21	5 6.8	20.0
102286 1999 TR_{65}	16.3	X	219.70887	116.71028	5.78028	1.24046	0.1312751	0.26767046	2.3845280	21	9 11.9	19.7
102287 1999 TB_{66}	15.6	X	70.20785	313.04355	2.29683	5.64416	0.2388083	0.27550006	2.3391330	21	12 26.3	19.3
102288 1999 TR_{69}	15.8	X	263.46694	269.20560	220.72566	2.67722	0.0703969	0.22700797	2.6613908	21	11 19.6	19.3
102289 1999 TS_{71}	16.7	X	241.57896	274.21040	26.18075	5.66041	0.2035184	0.29460432	2.2368832	21	2 2.3	20.4
102290 1999 TH_{74}	17.0	X	202.29662	335.57622	192.50223	3.54620	0.1476513	0.27250124	2.3562628	21	10 22.0	20.5
102291 1999 TT_{74}	16.8	X	153.78709	110.39354	84.33395	2.22204	0.1251049	0.26889115	2.3773058	21	10 8.6	20.3
102292 1999 TX_{75}	16.9	X	70.92400	40.19375	220.16216	5.17267	0.1249973	0.26547934	2.3976304	21	9 30.8	20.1
102293 1999 TK_{79}	16.4	X	50.09916	196.70141	169.35820	2.46314	0.2285604	0.27779213	2.3262484	21	—	—
102294 1999 TW_{79}	16.8	X	92.67745	214.64472	47.89908	2.75861	0.2057171	0.27266424	2.3553236	21	11 8.2	20.4
102295 1999 TM_{81}	16.1	X	173.74749	88.54872	347.30592	5.92168	0.1327534	0.25609337	2.4558612	21	5 22.2	20.0
102296 1999 TF_{83}	16.1	X	128.67232	337.11747	176.60914	4.63285	0.0668707	0.25959461	2.4337293	21	7 11.4	19.5
102297 1999 TH_{85}	16.0	X	197.15318	6.64829	216.73123	11.75195	0.1221602	0.27450378	2.3447894	21	12 27.8	19.5
102298 1999 TO_{86}	16.6	X	316.82215	180.47185	168.81934	9.97768	0.2577510	0.26716353	2.3875433	21	6 30.7	19.0
102299 1999 TV_{86}	16.5	X	71.82998	210.73617	170.98689	3.36631	0.1483186	0.28496591	2.2870418	21	—	—
102300 1999 TS_{87}	16.5	X	315.01083	262.72233	128.34998	2.57884	0.1343870	0.26531292	2.3986329	21	9 24.5	18.6
102301 1999 TO_{90}	15.7	X	61.08169	215.17748	140.07467	5.24313	0.1687078	0.27856292	2.3219553	21	—	—
102302 1999 TK_{91}	16.0	X	84.00362	50.44649	22.55526	6.56307	0.1555306	0.24336546	2.5407587	21	2 6.9	18.8
102303 1999 TQ_{91}	16.0	X	125.46890	287.30665	40.43765	6.50056	0.1483717	0.28373310	2.2936618	21	—	—
102304 1999 TB_{92}	16.1	X	319.99708	223.26471	130.42029	7.00864	0.1243115	0.26525514	2.3989812	21	8 6.4	18.2
102305 1999 TG_{92}	15.6	X	279.36188	342.55509	54.59941	7.39899	0.1201497	0.26438253	2.4042569	21	8 5.9	18.6
102306 1999 TF_{93}	15.2	X	287.06393	327.20069	61.57463	6.86001	0.1262503	0.26430167	2.4047473	21	8 4.0	18.0
102307 1999 TV_{95}	16.4	X	72.32809	194.51935	157.60204	4.81881	0.2591559	0.27948666	2.3168362	21	—	—
102308 1999 TF_{96}	16.0	X	13.74713	12.70210	41.59886	7.58591	0.1834160	0.27715943	2.3297873	21	—	—
102309 1999 TM_{96}	15.7	X	39.26951	15.57065	44.61678	9.28792	0.1437580	0.23595464	2.5936839	21	—	—
102310 1999 TR_{96}	16.2	X	179.77911	197.49674	122.14033	5.97415	0.1866517	0.28968316	2.2621456	21	1 1.3	19.5
102311 1999 TU_{96}	15.4	X	104.51817	322.74734	100.37278	7.17702	0.1874212	0.24431189	2.5341927	21	3 1.5	18.6
102312 1999 TA_{98}	14.5	X	270.61138	86.45350	48.03299	11.54590	0.0611494	0.27486234	2.3427497	21	12 16.3	17.3
102313 1999 TS_{98}	15.7	X	346.50384	293.04100	73.47859	5.34247	0.1960505	0.26939940	2.3743148	21	10 27.4	17.4
102314 1999 TB_{99}	15.9	X	79.10622	144.65384	169.18575	12.60554	0.1132920	0.27519973	2.3408345	21	12 21.5	19.5
102315 1999 TT_{99}	15.4	X	269.45438	286.58798	124.22176	6.73744	0.1331989	0.26341197	2.4101591	21	8 6.3	18.2
102316 1999 TN_{100}	16.5	X	48.76866	158.68065	159.54746	6.77459	0.1983290	0.27344332	2.3508478	21	12 3.9	19.7
102317 1999 TP_{101}	15.8	X	287.32725	282.02181	87.13835	11.79762	0.1889923	0.26190120	2.4194189	21	6 23.1	18.8
102318 1999 TF_{103}	15.4	X	349.78486	225.41463	160.00568	13.56966	0.2601552	0.22456882	2.6806271	21	11 28.9	18.0
102319 1999 TW_{103}	16.0	X	16.13567	24.82830	338.90072	4.88137	0.1598113	0.27275002	2.3548298	21	12 12.9	18.5
102320 1999 TF_{104}	15.9	X	67.70336	81.65741	221.73499	4.56824	0.1910374	0.27331870	2.3515623	21	12 3.9	19.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
102321 1999 TL_{105}	15.7	X	89.76223	18.15186	18.61078	13.13807	0.3159983	0.23849026	2.5752671	21	1 27.8	18.7
102322 1999 TS_{105}	16.0	X	142.03287	163.32925	195.03435	2.77005	0.2497630	0.28766682	2.2727040	21	1 18.9	19.0
102323 1999 TR_{106}	14.6	X	281.54859	162.34085	221.10982	7.37381	0.1812463	0.17349259	3.1838219	21	7 5.5	19.1
102324 1999 TZ_{106}	14.2	X	314.81993	73.64301	271.65374	15.28021	0.1435145	0.17506056	3.1647823	21	7 8.9	18.2
102325 1999 TB_{107}	14.6	X	327.79061	141.40226	250.04489	9.85840	0.2092262	0.17986336	3.1081902	21	9 23.6	18.0
102326 1999 TM_{108}	16.1	X	75.24076	77.93741	315.98686	5.47366	0.1780291	0.23883345	2.5727995	21	—	—
102327 1999 TG_{109}	14.1	X	245.57346	205.06972	211.54179	19.23849	0.1243213	0.17252637	3.1956979	21	7 9.9	19.3
102328 1999 TJ_{109}	16.3	X	306.78865	70.53253	227.02139	6.52177	0.0564076	0.30353463	2.1927909	21	4 27.1	18.5
102329 1999 TM_{110}	15.6	X	340.55482	198.66024	208.14750	6.12718	0.1118362	0.27382022	2.3486900	21	12 8.5	17.9
102330 1999 TA_{111}	16.6	X	191.00410	120.70222	225.06113	5.53736	0.1940305	0.29405867	2.2396495	21	2 10.9	20.2
102331 1999 TA_{112}	15.5	X	227.86162	52.61689	229.87271	3.83609	0.1798556	0.29234037	2.2484170	21	—	—
102332 1999 TG_{112}	16.3	X	230.26419	65.34312	349.33809	1.75568	0.2117463	0.25955012	2.4340074	21	6 17.0	20.1
102333 1999 TK_{112}	16.9	X	250.17504	2.58809	314.27259	1.58597	0.1526018	0.29843781	2.2176865	21	3 1.9	20.1
102334 1999 TP_{112}	15.9	X	199.17959	96.92918	212.66252	4.10657	0.2040128	0.29169455	2.2517345	21	1 6.8	19.4
102335 1999 TZ_{112}	14.5	X	277.20995	18.69541	346.12707	14.85719	0.0964403	0.17018187	3.2249812	21	6 20.1	19.3
102336 1999 TA_{114}	15.4	X	204.42019	235.90284	209.87843	5.21660	0.2075217	0.21388489	2.7691681	21	7 3.6	20.2
102337 1999 TN_{114}	15.9	X	48.77927	198.11723	183.70597	3.63793	0.1872957	0.23364368	2.6107584	21	—	—
102338 1999 TD_{115}	16.0	X	59.51440	115.51668	312.09459	4.66481	0.2454332	0.23878700	2.5731332	21	—	—
102339 1999 TH_{115}	15.6	X	132.48963	266.74148	241.46144	5.47360	0.0754914	0.25960034	2.4336935	21	7 9.3	18.9
102340 1999 TE_{116}	16.2	X	271.07298	84.02605	334.58645	2.52456	0.1866097	0.26457238	2.4031067	21	8 11.0	19.2
102341 1999 TR_{118}	16.2	X	33.69339	94.28105	275.47282	2.02699	0.1829774	0.23046878	2.6346806	21	—	—
102342 1999 TO_{120}	16.1	X	33.30961	4.88231	355.15090	7.09059	0.1273136	0.27470575	2.3436399	21	12 28.8	19.1
102343 1999 TP_{120}	16.0	X	335.33492	55.16420	322.72116	2.38735	0.1849681	0.26899308	2.3767052	21	10 14.3	17.6
102344 1999 TA_{121}	16.9	X	286.80356	33.70016	11.96491	2.28807	0.1868143	0.26520334	2.3992936	21	8 16.6	19.4
102345 1999 TQ_{121}	15.9	X	11.18471	259.88498	182.01217	7.90531	0.1595428	0.27976566	2.3152956	21	—	—
102346 1999 TF_{122}	15.9	X	230.71024	170.94576	197.36882	7.28281	0.1210169	0.25493091	2.4633212	21	4 25.3	19.6
102347 1999 TJ_{122}	16.5	X	321.52287	210.44786	176.25901	6.52170	0.2138953	0.26793047	2.3829850	21	9 23.7	17.8
102348 1999 TT_{122}	14.7	X	261.44151	250.21019	186.74444	13.45376	0.2100376	0.17226230	3.1989630	21	8 12.2	19.7
102349 1999 TX_{122}	15.9	X	54.29536	147.51346	197.13709	7.03046	0.1375850	0.27563041	2.3383955	21	—	—
102350 1999 TJ_{123}	15.6	X	233.93458	297.12038	137.64410	3.72178	0.1654245	0.26123637	2.4235219	21	7 21.2	19.2
102351 1999 TY_{123}	16.1	X	340.59518	196.43988	190.36741	5.43113	0.1530133	0.27010816	2.3701596	21	11 11.4	18.2
102352 1999 TY_{126}	17.0	X	142.99366	125.36540	186.93898	1.95541	0.2510719	0.28480162	2.2879213	21	—	—
102353 1999 TQ_{127}	15.6	X	270.68534	13.26844	89.16718	1.73586	0.1769488	0.26839417	2.3802395	21	10 15.0	18.0
102354 1999 TD_{130}	16.5	X	310.94739	3.51875	338.94708	1.16020	0.1191640	0.26340805	2.4101830	21	7 3.8	19.2
102355 1999 TC_{131}	14.7	X	211.50152	230.71813	193.88684	5.82240	0.0778600	0.16869599	3.2438907	21	6 21.1	19.7
102356 1999 TN_{133}	16.1	X	81.69485	85.15820	348.72011	2.58081	0.1350107	0.24290302	2.5439825	21	1 30.3	18.8
102357 1999 TZ_{133}	17.0	X	4.59582	88.16577	228.37078	0.71445	0.1817395	0.26714722	2.3876405	21	9 12.6	19.0
102358 1999 TN_{134}	15.4	X	184.82121	267.62826	0.35499	4.01282	0.1513877	0.23838311	2.5760387	21	—	—
102359 1999 TO_{134}	16.2	X	177.24425	272.41801	3.62615	3.97379	0.0292898	0.23672893	2.5880252	21	—	—
102360 1999 TU_{134}	16.0	X	7.66376	49.89989	337.67804	1.77761	0.1001290	0.22879207	2.6475372	21	12 12.8	19.0
102361 1999 TE_{136}	17.1	X	111.19074	343.44899	278.01925	1.30877	0.0946429	0.31779486	2.1266930	21	11 23.9	19.7
102362 1999 TS_{138}	16.7	X	18.97442	209.31826	227.45803	1.71904	0.1428171	0.23445823	2.6047081	21	—	—
102363 1999 TG_{139}	15.8	X	93.69439	195.05058	354.01471	2.05904	0.1416845	0.25806158	2.4433583	21	7 27.4	18.9
102364 1999 TR_{139}	16.1	X	170.56176	191.90389	341.21473	2.29043	0.1314367	0.26535185	2.3983983	21	9 25.6	19.6
102365 1999 TU_{139}	16.3	X	216.67011	31.81844	211.76295	7.62722	0.0750267	0.28188044	2.3037009	21	—	—
102366 1999 TR_{140}	16.4	X	54.07848	93.82922	312.66250	1.74495	0.1197532	0.23514364	2.5996440	21	—	—
102367 1999 TS_{140}	16.5	X	27.63039	35.51158	13.24677	4.48313	0.2621404	0.23163909	2.6257990	21	—	—
102368 1999 TB_{141}	15.7	X	248.98673	70.10997	4.60026	1.36528	0.0551546	0.21701015	2.7425171	21	8 21.3	19.5
102369 1999 TC_{142}	16.0	X	303.69892	124.50151	192.07409	3.33465	0.2207751	0.26023787	2.4297171	21	4 27.9	18.8
102370 1999 TE_{143}	15.4	X	49.80264	8.63217	16.34667	14.36857	0.1566982	0.23504966	2.6003370	21	—	—
102371 1999 TW_{143}	15.6	X	153.81179	315.94344	355.32157	14.55117	0.1040470	0.23967182	2.5667963	21	—	—
102372 1999 TL_{144}	16.0	X	37.26196	219.41574	205.03260	5.97439	0.0775100	0.28288586	2.2982392	21	—	—
102373 1999 TP_{144}	16.0	X	313.71624	30.30209	9.39192	7.29426	0.1210990	0.26924779	2.3752060	21	10 5.6	18.1
102374 1999 TY_{144}	16.0	X	203.08385	64.50944	351.30148	6.16359	0.1006242	0.25699737	2.4500988	21	5 26.6	19.6
102375 1999 TK_{145}	14.8	X	141.17752	114.93877	189.64600	9.76562	0.1034249	0.19202421	2.9755373	21	—	—
102376 1999 TX_{145}	15.0	X	122.63700	141.55664	31.74540	8.56106	0.1098257	0.26156482	2.4214927	21	8 9.1	18.6
102377 1999 TZ_{145}	16.3	X	76.26054	22.26710	270.71929	1.57620	0.2048283	0.27441625	2.3452879	21	11 30.7	19.8
102378 1999 TA_{146}	16.1	X	226.20770	217.51861	229.30778	2.49208	0.1684202	0.26193400	2.4192168	21	7 28.3	19.7
102379 1999 TR_{146}	15.1	X	178.03315	217.83420	142.14346	2.47397	0.0793757	0.20220489	2.8748043	21	2 24.5	19.5
102380 1999 TE_{150}	16.0	X	148.06237	251.69030	46.36411	6.89148	0.1408872	0.28247790	2.3004514	21	—	—
102381 1999 TU_{151}	15.7	X	356.10801	212.60490	181.41457	7.04688	0.1147574	0.27264345	2.3554434	21	12 17.0	18.2
102382 1999 TZ_{151}	15.7	X	23.31547	324.86902	51.15579	7.23244	0.1263551	0.27436818	2.3455619	21	—	—
102383 1999 TH_{152}	15.9	X	19.57724	193.26441	202.30188	2.16519	0.2269346	0.23000199	2.6382442	21	—	—
102384 1999 TL_{152}	16.0	X	112.78129	233.31631	129.32721	1.69349	0.1887545	0.23881919	2.5729019	21	—	—
102385 1999 TQ_{152}	15.9	X	42.66996	194.75261	178.03423	5.63596	0.2449530	0.23105356	2.6302333	21	—	—
102386 1999 TB_{153}	15.5	X	12.72909	183.76543	169.04814	6.44563	0.1316015	0.27033488	2.3688342	21	11 19.1	18.1
102387 1999 TB_{155}	16.1	X	223.30639	254.21917	21.65959	6.71019	0.1685223	0.28948915	2.2631561	21	—	—
102388 1999 TG_{155}	15.8	X	221.67894	274.48283	179.32714	9.01323	0.1830567	0.26054953	2.4277792	21	7 30.4	19.7
102389 1999 TM_{155}	15.8	X	109.89874	240.69983	61.49688	7.26882	0.1639097	0.27757269	2.3274743	21	—	—
102390 1999 TP_{155}	15.9	X	344.40399	157.58558	191.04765	6.34666	0.1844136	0.26646413	2.3917193	21	9 17.0	17.6
102391 1999 TH_{157}	14.8	X	350.10730	114.89702	1.80170	12.97098	0.2157531	0.23628518	2.5912644	21	—	—
102392 1999 TN_{157}	15.8	X	49.84069	268.56296	197.63465	2.21631	0.0723276	0.24431368	2.5341804	21	1 15.5	18.8
102393 1999 TA_{160}	16.1	X	183.69952	78.34484	329.10733	3.84851	0.1409611	0.25394829	2.4696715	21	4 25.6	20.1
102394 1999 TL_{161}	16.5	X	201.32185	299.64890	351.82300	3.61030	0.1295218	0.28868199	2.2673727	21	—	—
102395 1999 TE_{164}	15.9	X	62.37315	206.37793	139.88119	7.38353	0.1388339	0.27532042	2.3401504	21	—	—
102396 1999 TD_{166}	16.2	X	140.55931	42.92350	225.44279	6.00293	0.0883945	0.27775696	2.3264448	21	12 27.7	19.6
102397 1999 TN_{167}	16.2	X	293.80176	234.86925	198.83772	5.82574	0.0659434	0.27111573	2.3642836	21	10 28.0	18.7
102398 1999 TZ_{168}	16.4	X	218.43335	297.07889	229.01621	6.12637	0.0503920	0.27257860	2.3558170	21	11 18.9	19.4
102399 1999 TG_{169}	16.4	X	288.23557	63.34939	219.36255	3.62809	0.1264570	0.29803170	2.2197006	21	2 27.6	19.2
102400 1999 TW_{169}	16.5	X	289.18238	3.36725	323.56604	1.84259	0.2048555	0.25859416	2.4400024	21	4 24.3	19.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
102401 1999 TY_{169}	15.3	X	308.80166	60.44883	232.01204	3.35784	0.0763023	0.21026220	2.8008848	21	4 29.1	18.9
102402 1999 TS_{171}	15.9	X	312.38405	26.15073	40.97275	7.64591	0.1034439	0.27020375	2.3696005	21	11 14.5	18.1
102403 1999 TB_{172}	16.4	X	268.87415	319.65565	91.66974	1.81054	0.2035540	0.26233448	2.4167541	21	7 25.8	19.3
102404 1999 TJ_{172}	16.2	X	214.59033	160.80167	156.01970	2.22576	0.1934094	0.29226545	2.2488012	21	1 28.7	19.7
102405 1999 TP_{172}	16.3	X	97.88504	209.97301	172.04549	1.76529	0.3018936	0.28390980	2.2927100	21	—	—
102406 1999 TR_{173}	17.0	X	296.76404	303.85549	100.76542	2.24468	0.1824459	0.26499566	2.4005469	21	9 2.6	19.5
102407 1999 TW_{174}	15.8	X	44.82731	232.24167	230.66604	3.32695	0.1020216	0.24281096	2.5446254	21	1 3.8	18.6
102408 1999 TM_{175}	16.3	X	112.73612	50.57811	215.68488	5.82463	0.1254313	0.27400240	2.3476488	21	11 27.4	19.7
102409 1999 TN_{175}	16.2	X	61.89094	113.93613	260.95837	2.46084	0.1201714	0.23303286	2.6153186	21	—	—
102410 1999 TS_{175}	15.6	X	311.12533	42.14742	2.92626	5.97957	0.0277923	0.22211823	2.7003076	21	10 8.7	19.1
102411 1999 TB_{177}	16.4	X	71.15278	38.78536	256.24140	0.69505	0.0273411	0.27037591	2.3685945	21	11 4.8	19.2
102412 1999 TZ_{179}	16.0	X	226.98940	241.83211	175.97013	1.31973	0.1659437	0.25824760	2.4421848	21	6 21.5	19.7
102413 1999 TC_{181}	15.3	X	72.91081	198.25207	185.81985	5.09071	0.2375755	0.23404311	2.6077872	21	—	—
102414 1999 TA_{182}	16.0	X	356.97525	106.99756	356.07020	8.55634	0.1735945	0.23580373	2.5947904	21	—	—
102415 1999 TH_{183}	15.9	X	41.32359	18.80198	83.52762	3.60036	0.0474065	0.24117846	2.5560953	21	—	—
102416 1999 TL_{184}	15.4	X	47.90718	64.08705	263.19047	12.59281	0.0729745	0.27271099	2.3550545	21	11 24.3	18.3
102417 1999 TN_{184}	15.7	X	235.74369	133.50312	251.85871	13.76518	0.0972325	0.25754005	2.4466557	21	5 24.2	19.2
102418 1999 TN_{187}	15.6	X	83.44573	150.42922	309.78373	9.83731	0.1575379	0.24475562	2.5311289	21	3 8.5	18.6
102419 1999 TD_{189}	13.8	X	266.36561	21.03187	4.57860	21.27097	0.0367882	0.16849798	3.2464316	21	7 17.5	18.8
102420 1999 TC_{190}	15.5	X	25.08805	59.97901	349.83101	13.03883	0.1784137	0.23168611	2.6254438	21	—	—
102421 1999 TZ_{190}	15.5	X	295.16343	125.75808	1.50110	14.34662	0.2863095	0.22710378	2.6606422	21	12 3.4	18.1
102422 1999 TW_{191}	16.2	X	156.08111	359.78707	322.77321	6.32150	0.2045362	0.28578124	2.2826899	21	—	—
102423 1999 TJ_{192}	15.2	X	283.54508	92.50292	301.46899	7.03034	0.0771659	0.21702255	2.7424126	21	8 8.4	18.7
102424 1999 TD_{194}	15.8	X	138.72838	48.47006	256.92658	3.45619	0.1755747	0.28085427	2.3093089	21	—	—
102425 1999 TN_{194}	15.9	X	6.37733	35.37357	287.35928	6.84544	0.1937439	0.26632743	2.3925376	21	9 23.8	18.0
102426 1999 TY_{196}	15.3	X	291.65621	120.91267	34.18403	11.36975	0.0314396	0.23199759	2.6230932	21	—	—
102427 1999 TK_{200}	15.9	X	65.02629	49.73586	42.85068	12.17537	0.1989440	0.23881288	2.5729472	21	2 10.9	18.6
102428 1999 TD_{201}	16.2	X	254.41844	17.19489	271.94766	7.37469	0.1717434	0.29690022	2.2253366	21	1 27.6	19.6
102429 1999 TD_{202}	16.3	X	175.79450	31.19371	293.64039	1.55730	0.1326885	0.24289191	2.5440600	21	1 7.8	19.9
102430 1999 TG_{204}	15.8	X	47.83747	311.59473	16.54092	6.99606	0.1268709	0.27062809	2.3671229	21	12 2.3	18.8
102431 1999 TL_{205}	16.6	X	37.97792	45.82349	251.94827	2.64274	0.2312489	0.31430064	2.1424262	21	11 2.3	18.7
102432 1999 TA_{207}	14.0	X	267.39299	175.63653	253.33698	19.64001	0.1975805	0.17317790	3.1876777	21	8 5.2	19.0
102433 1999 TL_{209}	15.6	X	232.35326	60.42472	333.32527	12.42726	0.0662464	0.25512053	2.4621005	21	6 1.7	19.3
102434 1999 TD_{210}	15.1	X	98.07841	94.79507	342.78584	11.11091	0.1801159	0.24188201	2.5511363	21	3 7.5	18.0
102435 1999 TN_{210}	15.2	X	92.19620	55.97825	2.41787	13.49189	0.1570046	0.23895039	2.5719600	21	2 3.9	18.4
102436 1999 TX_{211}	16.1	X	37.06648	12.38488	78.87044	5.43691	0.1901729	0.23719087	2.5846639	21	—	—
102437 1999 TY_{212}	15.8	X	16.19107	86.67729	319.99428	2.56067	0.1412191	0.23143670	2.6273296	21	—	—
102438 1999 TJ_{213}	16.5	X	331.39137	87.56459	262.86473	2.22543	0.1872431	0.26657893	2.3910327	21	8 17.8	18.2
102439 1999 TQ_{213}	16.5	X	317.25754	175.01723	247.13187	3.06351	0.1261341	0.27205771	2.3588230	21	11 16.4	18.5
102440 1999 TW_{213}	16.6	X	283.18453	175.47810	150.93819	1.52108	0.1921073	0.25794164	2.4441156	21	4 19.7	19.9
102441 1999 TX_{213}	16.4	X	15.29909	249.59957	183.92012	3.83985	0.2321165	0.23339779	2.6125918	21	—	—
102442 1999 TZ_{214}	15.1	X	119.56626	252.55073	137.95177	2.87512	0.0925163	0.19717837	2.9234558	21	1 29.7	19.1
102443 1999 TB_{215}	16.1	X	241.44274	36.92959	63.01213	3.42946	0.1390418	0.26455176	2.4032316	21	9 7.7	19.3
102444 1999 TT_{215}	15.7	X	60.35478	292.52203	151.45731	3.76565	0.1704326	0.24002463	2.5642804	21	1 9.6	18.0
102445 1999 TF_{216}	16.0	X	10.28527	0.80413	54.91013	4.32779	0.1988019	0.23073360	2.6326643	21	—	—
102446 1999 TO_{216}	16.2	X	119.62084	275.11600	151.90692	2.24191	0.1160061	0.24649218	2.5192269	21	3 12.5	19.5
102447 1999 TR_{216}	16.2	X	330.19194	355.43501	338.19902	3.67254	0.0066891	0.26179912	2.4200477	21	8 4.5	19.0
102448 1999 TS_{216}	16.6	X	332.16843	359.90704	309.44923	2.40992	0.2039948	0.26196358	2.4190348	21	6 8.9	18.6
102449 1999 TC_{217}	16.5	X	263.34715	247.60046	206.83740	4.12648	0.1923460	0.26696515	2.3887260	21	9 17.7	19.4
102450 1999 TD_{217}	16.1	X	243.85216	325.30543	76.43135	2.40084	0.1854098	0.25893665	2.4378503	21	6 15.7	19.5
102451 1999 TL_{217}	15.9	X	109.68228	195.39666	205.20388	8.74759	0.1163258	0.24137362	2.5547173	21	1 21.9	19.3
102452 1999 TV_{217}	16.5	X	10.65416	193.88704	191.76163	3.22409	0.2470498	0.27283542	2.3543384	21	—	—
102453 1999 TW_{217}	16.3	X	200.41815	54.39902	14.91622	6.35047	0.1090406	0.25628295	2.4546500	21	6 11.4	20.0
102454 1999 TY_{218}	16.5	X	196.42306	142.69562	170.64096	5.24682	0.3187385	0.29261084	2.2470312	21	1 14.2	20.6
102455 1999 TU_{220}	15.8	X	278.51365	119.82870	292.13607	3.77585	0.1837835	0.26446261	2.4037716	21	8 11.5	18.7
102456 1999 TJ_{221}	16.3	X	341.24125	193.02753	159.22246	6.85430	0.1571918	0.26723807	2.3870993	21	9 17.5	18.1
102457 1999 TP_{221}	15.8	X	54.42781	188.09024	153.05375	7.19522	0.1901816	0.27480668	2.3430660	21	—	—
102458 1999 TH_{225}	14.9	X	272.35733	106.71065	352.24945	9.24044	0.0754117	0.18185817	3.0854191	21	10 12.3	19.3
102459 1999 TD_{226}	16.6	X	212.74701	318.45367	325.40350	0.44277	0.1985011	0.28782467	2.2718729	21	—	—
102460 1999 TN_{226}	16.3	X	62.62574	30.21958	248.02095	2.32116	0.1760179	0.26914022	2.3758389	21	10 23.1	19.3
102461 1999 TG_{227}	16.5	X	349.94232	340.54856	8.38368	3.37478	0.2195184	0.26933908	2.3746693	21	10 5.9	17.8
102462 1999 TE_{229}	15.9	X	151.12879	329.55145	18.18763	7.01150	0.1790331	0.29055186	2.2576344	21	1 7.4	19.0
102463 1999 TD_{230}	16.0	X	151.00748	179.69066	120.19374	7.60841	0.1407454	0.28318020	2.2966464	21	—	—
102464 1999 TG_{230}	16.1	X	86.91938	250.81648	64.39022	6.90028	0.1529358	0.27746687	2.3280660	21	—	—
102465 1999 TB_{231}	14.5	X	43.21136	271.88645	34.57785	16.49050	0.0915223	0.18019347	3.1043929	21	10 13.5	18.7
102466 1999 TW_{232}	16.3	X	79.35925	12.66047	10.41933	5.29320	0.0847207	0.23656299	2.5892353	21	—	—
102467 1999 TA_{233}	15.0	X	1.13915	276.65581	147.78028	14.61570	0.1153635	0.22925661	2.6439595	21	—	—
102468 1999 TV_{234}	16.0	X	201.66479	231.45463	66.54248	6.43515	0.1808403	0.28972322	2.2619370	21	—	—
102469 1999 TC_{237}	15.9	X	183.81398	236.81119	124.42423	4.60994	0.1754872	0.29264616	2.2468504	21	2 26.4	19.2
102470 1999 TQ_{239}	16.5	X	347.77034	310.84687	95.54968	5.78765	0.0884895	0.27296905	2.3535700	21	12 17.5	18.9
102471 1999 TN_{241}	15.8	X	282.14192	342.56070	71.76297	7.55893	0.1258547	0.26475076	2.4020271	21	9 5.1	18.6
102472 1999 TT_{242}	15.0	X	191.80893	273.26962	124.22744	7.97677	0.1705497	0.25130826	2.4869375	21	4 26.6	19.1
102473 1999 TW_{244}	15.6	X	295.60158	271.19262	189.45676	12.46503	0.3038924	0.22594750	2.6697116	21	10 27.7	18.1
102474 1999 TZ_{245}	15.6	X	0.49421	243.52402	155.88839	13.19445	0.1705683	0.22667770	2.6639753	21	12 26.4	18.8
102475 1999 TA_{246}	15.5	X	55.06001	230.62738	162.43574	13.99826	0.2020847	0.23277169	2.6172745	21	—	—
102476 1999 TC_{246}	15.9	X	228.43908	320.14502	133.04580	5.63381	0.1610834	0.26054146	2.4278293	21	8 9.8	19.4
102477 1999 TQ_{247}	15.4	X	43.20456	249.77178	204.38961	10.85866	0.1453368	0.23768105	2.5811090	21	—	—
102478 1999 TN_{248}	16.2	X	57.29668	237.78487	153.86202	4.48224	0.2891042	0.23329056	2.6133923	21	—	—
102479 1999 TQ_{250}	15.4	X	164.38630	155.47096	316.60256	8.87391	0.1152287	0.21292658	2.7774706	21	7 1.7	19.8
102480 1999 TW_{250}	15.2	X	106.14104	291.99938	48.88509	0.49282	0.0896393	0.18965738	3.0002415	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
102481 1999 TG_{252}	15.7	X	62.29773	247.02897	126.90494	8.50870	0.1767897	0.23379578	2.6096260	21	—	—
102482 1999 TH_{252}	15.3	X	81.03744	317.03939	133.15159	9.46364	0.2087340	0.24299569	2.5433356	21	3 5.9	18.1
102483 1999 TA_{253}	15.5	X	233.25981	296.34347	103.91167	4.85954	0.1662579	0.25802547	2.4435862	21	6 5.1	19.1
102484 1999 TU_{256}	16.6	X	232.18621	228.97565	175.57166	4.68933	0.1833789	0.25912627	2.4366609	21	6 8.4	20.4
102485 1999 TQ_{258}	16.2	X	338.42066	117.25020	326.46518	1.82192	0.1916641	0.23054041	2.6341349	21	—	—
102486 1999 TY_{258}	16.5	X	50.10656	221.61427	198.55558	2.51250	0.1277739	0.23724344	2.5842820	21	—	—
102487 1999 TF_{260}	16.6	X	265.52880	190.10430	188.83053	5.20484	0.1471235	0.26171546	2.4205634	21	6 14.5	20.0
102488 1999 TU_{260}	15.8	X	261.84661	64.40511	341.47049	5.43434	0.1504100	0.30660117	2.1781453	21	7 18.8	18.4
102489 1999 TC_{262}	16.6	X	144.15696	189.25012	319.79273	1.57021	0.0591458	0.25939232	2.4349944	21	7 24.7	20.0
102490 1999 TD_{264}	14.9	X	34.79766	207.39456	42.27091	1.67152	0.0713198	0.16876768	3.2429720	21	7 13.9	19.2
102491 1999 TK_{264}	16.5	X	135.37173	0.60217	203.87930	4.38167	0.1602442	0.26564026	2.3966620	21	10 1.8	20.3
102492 1999 TG_{265}	13.2	X	267.70329	97.09793	260.22697	16.52881	0.0470347	0.17003352	3.2268568	21	6 5.5	17.6
102493 1999 TW_{265}	15.1	X	71.33886	273.94614	253.04308	13.68081	0.0418861	0.25588765	2.4571773	21	5 6.7	18.1
102494 1999 TQ_{273}	14.7	X	11.13422	100.80554	262.74939	13.79932	0.1716919	0.22659538	2.6646204	21	11 24.8	17.7
102495 1999 TH_{274}	16.5	X	83.08873	158.15184	212.43507	2.06899	0.2679213	0.28434361	2.2903775	21	—	—
102496 1999 TT_{277}	15.9	X	132.45887	134.52405	14.82917	9.71601	0.1596468	0.25714455	2.4491638	21	7 22.1	19.8
102497 1999 TY_{278}	15.6	X	64.67789	245.47383	26.82260	5.92614	0.1150298	0.26526200	2.3989398	21	10 9.6	18.6
102498 1999 TQ_{280}	16.5	X	32.93171	234.56734	130.44984	2.74785	0.1808428	0.27637097	2.3342163	21	—	—
102499 1999 TD_{282}	15.0	X	43.21597	261.98098	177.29453	27.17952	0.1856291	0.23425260	2.6062322	21	—	—
102500 1999 TG_{283}	15.5	X	18.37309	3.34111	62.18735	8.63673	0.0981401	0.23312641	2.6146189	21	—	—
102501 1999 TZ_{283}	15.9	X	180.87433	251.42348	171.56208	5.91553	0.1137167	0.25287142	2.4766780	21	5 15.6	19.7
102502 1999 TF_{285}	15.9	X	350.50681	146.52051	190.16529	14.51664	0.1894752	0.26556357	2.3971234	21	9 10.5	17.9
102503 1999 TJ_{288}	16.3	X	25.28456	163.90466	147.13610	3.17338	0.1849021	0.26790404	2.3831418	21	10 18.4	18.7
102504 1999 TV_{288}	16.0	X	169.55480	120.94005	180.56580	6.93603	0.1575682	0.28426541	2.2907975	21	—	—
102505 1999 TZ_{288}	16.6	X	204.87371	130.87979	182.11180	5.97212	0.2125036	0.29080983	2.2562991	21	1 15.8	20.4
102506 1999 TU_{289}	16.4	X	82.91703	172.58674	131.79329	3.08247	0.2142091	0.27479057	2.3431576	21	12 21.9	20.2
102507 1999 TL_{290}	15.8	X	357.29735	277.47132	173.69900	4.71947	0.1767369	0.23161486	2.6259821	21	—	—
102508 1999 TZ_{291}	16.5	X	5.53168	184.12735	147.24770	2.54461	0.2144105	0.26741538	2.3860441	21	10 15.5	18.2
102509 1999 TE_{293}	15.6	X	326.17973	241.25888	242.80677	10.58201	0.2580566	0.23058453	2.6337988	21	—	—
102510 1999 TP_{293}	15.9	X	82.76924	298.34776	4.51245	7.05435	0.2119290	0.27394088	2.3480003	21	12 19.4	19.7
102511 1999 TQ_{298}	16.7	X	142.82678	307.88138	222.10603	1.88088	0.1228231	0.26555080	2.3972002	21	8 23.5	20.4
102512 1999 TO_{300}	15.0	X	84.11328	1.32713	181.11223	11.64876	0.1092299	0.16927599	3.2364766	21	6 29.4	19.7
102513 1999 TE_{303}	16.7	X	118.20421	199.74154	52.32673	1.39358	0.1991544	0.27461143	2.3441765	21	11 17.6	20.5
102514 1999 TC_{304}	15.9	X	330.46639	124.60751	167.88858	6.29920	0.1206051	0.25847255	2.4407676	21	5 24.6	18.6
102515 1999 TT_{305}	16.2	X	136.00265	325.50049	344.60816	4.03734	0.2437292	0.28157849	2.3053475	21	—	—
102516 1999 TC_{306}	16.9	X	274.20548	250.79992	295.11793	1.44757	0.1249147	0.28442856	2.2899214	21	—	—
102517 1999 TZ_{309}	16.1	X	184.14037	199.18006	162.89830	7.08822	0.1508559	0.25212293	2.4815774	21	3 2.1	19.9
102518 1999 TB_{312}	16.7	X	38.07699	95.55156	342.10081	1.11011	0.1008987	0.23989809	2.5651820	21	—	—
102519 1999 TO_{312}	16.3	X	219.20334	265.35446	71.38189	6.26195	0.2200881	0.29724456	2.2236176	21	3 1.1	20.0
102520 1999 TW_{318}	16.4	X	108.16089	137.43900	34.26937	6.34243	0.1308849	0.25709043	2.4495075	21	7 21.0	19.9
102521 1999 TE_{319}	16.6	X	70.44380	119.91780	163.84402	2.53342	0.2075648	0.27241641	2.3567520	21	11 14.0	19.9
102522 1999 TC_{321}	14.9	X	89.33167	164.44197	218.60369	12.07787	0.1573214	0.18948873	3.0020215	21	—	—
102523 1999 UG	16.0	X	308.92260	352.11587	28.39379	1.91669	0.1949928	0.26569728	2.3963191	21	8 17.3	18.0
102524 1999 UK	15.5	X	112.17535	140.75582	259.34006	1.23307	0.1688864	0.24263373	2.5458644	21	2 3.5	18.8
102525 1999 UV	15.4	X	271.67824	18.17786	29.45625	6.65713	0.1265690	0.26342208	2.4100974	21	8 8.7	18.4
102526 1999 UG_{1}	15.7	X	96.30193	295.89705	48.51464	5.86236	0.1815551	0.28040480	2.3117760	21	—	—
102527 1999 UH_{2}	15.9	X	117.96251	149.55007	208.58326	6.75796	0.1408645	0.28404401	2.2919877	21	—	—
102528 1999 US_{3}	13.6	X	256.04734	181.89593	268.13969	28.94157	0.5176394	0.21437168	2.7649743	21	7 18.7	19.0
102529 1999 UD_{4}	15.0	X	331.04222	323.14630	40.85811	6.84066	0.1579981	0.26606259	2.3941251	21	9 16.3	17.0
102530 1999 UF_{4}	16.2	X	17.78513	250.94190	116.02070	2.80767	0.1831845	0.22713804	2.6603747	21	12 12.8	19.1
102531 1999 UP_{4}	16.0	X	356.45352	357.59091	16.44705	2.68851	0.2112219	0.27134011	2.3629800	21	11 30.9	18.0
102532 1999 UU_{4}	15.8	X	32.19436	171.82270	243.56123	1.80809	0.1923819	0.23369926	2.6103445	21	—	—
102533 1999 UB_{5}	15.7	X	89.20956	181.18819	251.72359	6.33436	0.1432473	0.24275331	2.5450283	21	2 7.8	18.7
102534 1999 UJ_{5}	14.3	X	93.76040	28.62915	339.83887	28.95090	0.1684268	0.23477931	2.6023328	21	—	—
102535 1999 UL_{6}	16.0	X	42.44190	172.47864	207.46034	4.13407	0.2488269	0.23122291	2.6289489	21	—	—
102536 Luanenjie	14.9	X	272.02997	339.90655	52.38540	10.16084	0.3138463	0.21534755	2.7566148	21	6 17.8	19.2
102537 1999 UY_{7}	16.0	X	294.93974	7.47302	48.67683	7.04209	0.1121389	0.26571505	2.3962123	21	9 30.3	18.6
102538 1999 UZ_{9}	15.4	X	162.67988	318.17483	354.75850	25.00947	0.1773677	0.28416482	2.2913381	21	—	—
102539 1999 UT_{10}	14.5	X	13.37226	78.95373	7.05696	20.97393	0.2302180	0.27489015	2.3425917	21	—	—
102540 1999 UV_{11}	16.3	X	2.57989	151.57066	75.56872	1.42293	0.0500432	0.25089037	2.4896983	21	4 19.2	19.1
102541 1999 UN_{12}	15.5	X	50.55368	151.75628	290.12793	3.40332	0.2321748	0.23791442	2.5794209	21	—	—
102542 1999 UT_{12}	15.4	X	237.47985	171.78741	209.24225	7.33606	0.2107942	0.21252241	2.7809909	21	5 14.3	20.0
102543 1999 UV_{12}	15.6	X	62.27545	153.10301	210.91334	6.53838	0.1240375	0.27932170	2.3177483	21	—	—
102544 1999 UK_{13}	15.8	X	172.20552	98.61351	217.93550	5.73694	0.1543538	0.28833462	2.2691934	21	—	—
102545 1999 UP_{14}	15.5	X	339.14318	260.25089	201.73068	13.78102	0.1540299	0.23131197	2.6282740	21	—	—
102546 1999 UQ_{15}	15.6	X	219.37193	226.43476	177.76566	5.99012	0.1353874	0.25602069	2.4563260	21	5 29.8	19.4
102547 1999 UW_{15}	16.4	X	234.06213	138.94823	190.73420	7.17828	0.1826197	0.29625171	2.2285830	21	2 28.9	19.9
102548 1999 UF_{16}	15.5	X	280.44846	85.42095	23.81132	7.40815	0.0609247	0.27114051	2.3641395	21	11 24.7	18.2
102549 1999 UP_{16}	16.3	X	18.03634	178.62663	225.44659	6.08128	0.1311697	0.27575100	2.3377137	21	—	—
102550 1999 UY_{17}	16.5	X	130.63254	71.25036	76.58832	2.24812	0.1347204	0.25808955	2.4431817	21	7 13.4	20.1
102551 1999 UC_{18}	16.1	X	96.62557	50.48751	33.44120	10.36215	0.1002504	0.24620332	2.5211970	21	3 6.5	19.3
102552 1999 UF_{20}	16.8	X	28.84700	120.54575	188.78705	4.97831	0.1462589	0.26920054	2.3754840	21	10 14.7	19.1
102553 1999 UJ_{20}	16.8	X	121.58886	104.83409	49.49890	3.18071	0.1364313	0.25795324	2.4440423	21	7 12.5	20.3
102554 1999 US_{21}	16.7	X	112.19377	137.89672	35.65864	6.83133	0.1141061	0.25791778	2.4442663	21	7 26.9	20.2
102555 1999 UG_{22}	16.1	X	11.45339	67.90717	49.05275	2.64329	0.0757829	0.23807653	2.5782498	21	—	—
102556 1999 UW_{23}	15.6	X	46.11997	73.89409	270.05717	5.74966	0.1311058	0.27425104	2.3462297	21	12 23.8	18.4
102557 1999 UY_{23}	15.9	X	157.28492	61.34733	261.13208	6.18067	0.1799515	0.28636065	2.2796097	21	—	—
102558 1999 UJ_{24}	14.6	X	241.46261	129.02154	257.38390	6.85507	0.2386497	0.21221808	2.7836490	21	5 21.3	19.2
102559 1999 UJ_{25}	13.8	X	119.25603	79.46972	7.18526	13.41912	0.2003259	0.15583313	3.4200268	21	4 21.5	19.2
102560 1999 UR_{25}	15.8	X	230.74100	14.59275	27.98439	2.76607	0.1902582	0.25643887	2.4536549	21	6 3.0	19.7

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
102561 1999 UX_{27}	15.7	X	224.50188	231.25923	197.81228	9.19664	0.1595528	0.21615917	2.7497103	21	7 3.3	20.2
102562 1999 UD_{28}	16.5	X	201.19711	139.35948	202.13486	5.54186	0.1928676	0.29530280	2.2333545	21	2 14.8	20.2
102563 1999 UW_{29}	16.4	X	162.68592	159.70240	34.43617	4.39876	0.1353590	0.26969855	2.3725587	21	10 16.1	19.9
102564 1999 UH_{30}	16.4	X	187.34358	118.60276	55.08034	2.76815	0.1543771	0.26918639	2.3755672	21	10 13.6	19.8
102565 1999 UL_{30}	16.8	X	54.70790	204.19698	175.11660	3.06704	0.1924515	0.23379559	2.6096274	21	—	—
102566 1999 UB_{32}	16.6	X	77.48295	156.19130	50.54797	1.98485	0.1144719	0.25847375	2.4407601	21	7 26.4	19.5
102567 1999 UY_{32}	16.4	X	215.18517	296.72710	32.40383	5.35869	0.1977665	0.29419130	2.2389763	21	2 15.8	20.0
102568 1999 UG_{35}	16.3	X	274.32322	208.18369	192.19248	1.32516	0.2057203	0.26230397	2.4169415	21	7 16.7	19.2
102569 1999 UQ_{35}	16.6	X	209.13606	259.09763	231.74047	3.65157	0.0617689	0.26388062	2.4073046	21	9 15.8	19.8
102570 1999 UW_{35}	16.5	X	181.23137	267.79266	2.30267	7.13090	0.1084889	0.28491869	2.2872945	21	—	—
102571 1999 UX_{35}	16.2	X	208.13722	167.22612	200.89274	4.62169	0.1525774	0.29878149	2.2159855	21	3 27.2	19.3
102572 1999 UW_{36}	16.7	X	288.85247	43.35388	196.57545	5.65999	0.0836291	0.29427336	2.2385601	21	1 8.6	19.7
102573 1999 UH_{40}	16.2	X	164.50075	177.61078	359.81312	6.86199	0.0514495	0.26630606	2.3926656	21	9 26.5	19.3
102574 1999 UH_{41}	16.0	X	267.17529	198.41031	191.71166	10.57774	0.2593942	0.26053388	2.4278764	21	6 16.6	19.7
102575 1999 UQ_{42}	15.8	X	299.26855	349.44185	341.93508	8.27336	0.2610624	0.26045273	2.4283807	21	5 1.8	19.1
102576 1999 UZ_{42}	15.3	X	40.46154	338.14106	357.88872	9.66006	0.1673813	0.27263173	2.3555109	21	12 9.8	18.5
102577 1999 UE_{43}	15.9	X	45.81858	17.26448	324.89074	5.83425	0.1575280	0.27380139	2.3487977	21	12 25.1	19.0
102578 1999 UO_{43}	15.7	X	10.13230	66.94645	346.54748	9.12591	0.1887445	0.23022962	2.6365049	21	—	—
102579 1999 UZ_{43}	15.0	X	326.91572	145.22688	20.99596	13.73255	0.0928206	0.23789038	2.5795946	21	—	—
102580 1999 UC_{44}	16.7	X	242.47623	156.57653	254.95232	4.57748	0.1253181	0.30463975	2.1874846	21	7 3.6	19.6
102581 1999 US_{44}	15.6	X	80.34241	66.47768	244.30308	6.08587	0.1302421	0.27491589	2.3424455	21	12 20.1	19.0
102582 1999 UD_{46}	15.4	X	110.31224	39.99859	237.21314	10.08203	0.2218590	0.27475037	2.3433862	21	12 12.4	19.2
102583 1999 UE_{47}	16.1	X	4.05883	71.14271	353.98644	3.72505	0.0771523	0.23104342	2.6303103	21	—	—
102584 1999 UE_{48}	14.8	X	234.89383	244.01574	353.27123	6.81134	0.1589991	0.23864353	2.5741644	21	—	—
102585 1999 UJ_{48}	16.2	X	328.49848	277.64082	145.52893	2.32645	0.1982735	0.26975972	2.3722001	21	12 13.9	17.7
102586 1999 UR_{49}	17.4	X	319.47860	210.53131	160.48307	3.58991	0.1799522	0.31074211	2.1587514	21	9 1.2	18.7
102587 1999 UA_{50}	16.6	X	293.45484	210.57185	159.98471	3.84333	0.1882278	0.26208027	2.4183166	21	7 4.3	19.5
102588 1999 UM_{52}	14.6	X	215.90344	310.14690	177.61674	11.58960	0.1429419	0.21715273	2.7413166	21	9 8.8	18.8
102589 1999 UP_{52}	16.0	X	108.06966	168.11974	168.90318	8.70743	0.2001385	0.28033449	2.3121625	21	—	—
102590 1999 UT_{52}	15.8	X	286.86372	237.71571	150.64277	8.74464	0.2330525	0.21674554	2.7447488	21	7 11.7	19.5
102591 1999 UP_{57}	17.6	X	113.60780	204.12812	53.77210	1.01687	0.1108472	0.31523905	2.1381724	21	11 22.4	20.2
102592 1999 VE_{1}	15.6	X	38.66029	21.88253	18.59853	10.19136	0.1126670	0.27810485	2.3245042	21	—	—
102593 1999 VY_{1}	16.0	X	130.23093	356.12558	38.85060	4.00716	0.0943278	0.24313028	2.5423969	21	2 10.9	19.4
102594 1999 VC_{3}	16.2	X	43.29913	225.77363	63.56540	7.16282	0.1344531	0.26489694	2.4011434	21	10 9.1	19.0
102595 1999 VJ_{3}	16.5	X	41.85901	139.86458	135.65037	1.81989	0.1708516	0.26302567	2.4125183	21	9 20.0	19.1
102596 1999 VN_{3}	16.7	X	29.89438	154.40390	100.65676	2.47073	0.1526528	0.25807961	2.4432444	21	7 25.2	18.8
102597 1999 VS_{3}	16.1	X	311.29254	249.07113	189.41553	2.75713	0.0790686	0.22452538	2.6809729	21	11 20.8	19.3
102598 1999 VE_{4}	16.0	X	82.20273	253.04941	162.33367	4.64999	0.2237849	0.24015328	2.5633645	21	1 17.9	18.5
102599 1999 VX_{4}	15.7	X	107.04988	225.22119	201.21506	0.75526	0.1226447	0.24349364	2.5398669	21	2 24.1	19.0
102600 1999 VC_{5}	15.5	X	55.26987	32.61876	42.75411	4.50680	0.1984821	0.23741978	2.5830022	21	—	—
102601 1999 VD_{5}	15.5	X	303.30590	330.54665	52.01885	3.44636	0.1926216	0.26402866	2.4064047	21	8 10.3	17.8
102602 1999 VG_{5}	16.2	X	98.02493	157.46510	223.48840	0.14326	0.2473269	0.28363570	2.2941869	21	—	—
102603 1999 VP_{5}	15.4	X	54.26601	350.70756	84.58078	1.15258	0.1081954	0.23687622	2.5869522	21	—	—
102604 1999 VW_{5}	15.6	X	316.16869	351.45106	53.38889	2.19559	0.1801478	0.26625707	2.3929591	21	10 14.3	17.3
102605 1999 VH_{9}	15.5	X	273.72584	355.87458	43.07716	5.44370	0.1871458	0.26096094	2.4252269	21	7 18.3	18.6
102606 1999 VA_{10}	15.6	X	11.95654	35.03096	19.72401	12.73022	0.2756785	0.22958498	2.6414379	21	—	—
102607 1999 VJ_{11}	14.7	X	160.46279	325.30313	52.20559	6.44691	0.1310484	0.24407272	2.5358480	21	2 28.9	18.5
102608 1999 VH_{13}	14.9	X	28.02722	37.99951	59.27136	33.30600	0.2439372	0.23223714	2.6212892	21	—	—
102609 1999 VJ_{14}	14.5	X	19.17298	59.71750	56.24217	23.09323	0.2418780	0.27825919	2.3236446	21	—	—
102610 1999 VQ_{15}	16.4	X	11.49450	27.97385	318.23831	2.24026	0.1921236	0.27034295	2.3687871	21	11 14.3	18.6
102611 1999 VK_{19}	14.8	X	81.14310	174.60846	237.28955	11.70355	0.1644367	0.23664702	2.5886223	21	1 2.3	17.7
102612 1999 VY_{19}	16.1	X	357.20423	279.17997	59.22038	3.28751	0.2091094	0.26578946	2.3957650	21	10 6.7	17.7
102613 1999 VQ_{20}	15.1	X	351.67967	358.52923	352.91190	10.83559	0.2229644	0.26797572	2.3827167	21	10 10.9	16.8
102614 1999 VG_{21}	16.5	X	334.94726	117.90485	223.02662	3.78518	0.1585140	0.31039455	2.1603627	21	8 15.8	17.8
102615 1999 VJ_{21}	16.3	X	228.66768	216.37867	199.98487	2.13117	0.1892961	0.25849798	2.4406075	21	6 19.5	20.1
102616 1999 VC_{22}	15.6	X	236.16197	255.38143	139.49897	3.22413	0.1839155	0.25651977	2.4531390	21	5 30.8	19.4
102617 1999 VC_{23}	15.4	X	75.37119	332.43047	70.52703	12.65657	0.2115378	0.23646094	2.5899802	21	—	—
102618 1999 VJ_{23}	15.8	X	180.73814	61.77467	356.43139	3.68231	0.1300207	0.25195002	2.4827126	21	5 6.9	19.5
102619 1999 VK_{23}	16.4	X	6.12334	346.93853	66.98289	7.01596	0.2320035	0.27468591	2.3437527	21	—	—
102620 1999 VX_{23}	15.2	X	86.30241	132.70560	273.55809	6.29628	0.1893963	0.23737496	2.5833274	21	1 8.3	17.8
102621 1999 VO_{25}	16.0	X	348.21807	80.27195	310.18776	1.19878	0.0955895	0.22386010	2.6862819	21	11 14.2	19.0
102622 1999 VR_{25}	15.6	X	254.58217	226.36627	156.36750	5.23918	0.1339009	0.25793028	2.4441874	21	6 8.7	19.0
102623 1999 VM_{26}	15.9	X	142.97817	154.79039	213.50924	1.45506	0.1232814	0.24070722	2.5594303	21	1 25.4	19.6
102624 1999 VZ_{26}	15.4	X	343.25829	253.82269	233.83551	11.88137	0.1301902	0.23262290	2.6183904	21	—	—
102625 1999 VX_{27}	15.4	X	341.67423	106.02191	59.60897	4.99723	0.2062130	0.23593686	2.5938142	21	—	—
102626 1999 VY_{27}	14.6	X	298.01929	27.04824	300.53991	15.60631	0.0876966	0.25730462	2.4481479	21	5 24.9	18.0
102627 1999 VZ_{27}	14.2	X	340.90855	131.36284	255.64973	14.46698	0.1263771	0.18163710	3.0879222	21	10 16.6	18.1
102628 1999 VG_{28}	15.8	X	15.79815	104.74995	234.57469	5.72897	0.1388625	0.26794193	2.3829171	21	11 2.9	18.1
102629 1999 VQ_{28}	15.3	X	270.59970	158.91646	237.29190	1.57966	0.2103967	0.26067602	2.4269938	21	7 5.4	18.3
102630 1999 VM_{30}	16.0	X	14.23857	346.89814	3.87898	1.07278	0.2317293	0.26946390	2.3739359	21	12 3.0	18.2
102631 1999 VR_{31}	15.3	X	124.44886	316.72634	235.00442	8.40009	0.0801954	0.21442105	2.7645499	21	8 22.9	19.6
102632 1999 VX_{32}	16.5	X	65.53043	130.42107	227.97167	4.81699	0.1718698	0.27624305	2.3349369	21	—	—
102633 1999 VY_{33}	15.8	X	59.75549	268.95834	42.26980	2.83984	0.2214522	0.27119878	2.3638009	21	12 8.2	19.2
102634 1999 VD_{34}	14.7	X	250.99700	320.74138	61.01312	9.04265	0.2394455	0.21126843	2.7919844	21	5 24.3	19.3
102635 1999 VH_{34}	15.8	X	5.56461	141.18442	245.26664	1.13291	0.2192967	0.27131606	2.3631197	21	—	—
102636 1999 VV_{37}	15.0	X	60.48435	44.54196	68.61803	13.98213	0.2220845	0.23900386	2.5715765	21	3 10.1	17.8
102637 1999 VH_{38}	15.6	X	345.94213	325.37309	24.98315	2.54015	0.2379658	0.22216159	2.6999563	21	9 18.5	17.6
102638 1999 VQ_{38}	16.8	X	10.71866	284.55975	80.87322	2.79185	0.1628152	0.26967571	2.3726927	21	12 6.8	19.2
102639 1999 VV_{38}	15.3	X	309.46541	258.02918	56.54622	7.05237	0.1477748	0.25588539	2.4571918	21	5 15.9	18.3
102640 1999 VO_{39}	15.5	X	258.68713	82.25759	56.57276	14.12391	0.1199246	0.22338052	2.6901253	21	11 16.8	18.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
102641 1999 VV_{39}	16.1	X	37.76604	55.39773	35.76274	3.99734	0.2774098	0.23768784	2.5810598	21	—	—
102642 1999 VY_{42}	14.7	X	167.09283	68.61712	75.37023	6.51788	0.0712838	0.16698055	3.2660698	21	8 13.0	19.7
102643 1999 VQ_{43}	15.8	X	17.84162	356.72052	348.89284	0.49931	0.2586177	0.22666940	2.6640403	21	11 25.9	18.6
102644 1999 VA_{44}	15.6	X	351.61835	150.74067	225.10371	3.43787	0.1153646	0.27011617	2.3701127	21	11 11.9	18.0
102645 1999 VC_{44}	16.4	X	107.96801	145.44506	229.04910	4.78117	0.1580343	0.28465511	2.2887063	21	—	—
102646 1999 VT_{46}	15.7	X	108.37628	23.52533	40.94794	22.88843	0.0641992	0.24272362	2.5452358	21	3 1.0	19.6
102647 1999 VT_{47}	14.8	X	117.77229	123.37079	278.28911	10.52829	0.2455378	0.24380186	2.5377258	21	2 18.9	18.5
102648 1999 VR_{48}	15.8	X	310.11137	62.94974	317.93063	6.27220	0.0453683	0.26355385	2.4092941	21	9 5.9	18.5
102649 1999 VW_{48}	14.9	X	41.81669	59.29576	24.79033	10.41897	0.0790667	0.19105006	2.9856434	21	—	—
102650 1999 VM_{51}	15.9	X	291.47444	43.12868	27.73496	9.13219	0.1806366	0.22088807	2.7103240	21	9 28.1	19.0
102651 1999 VS_{51}	15.0	X	234.29735	240.49936	33.64407	15.06149	0.1712328	0.24179061	2.5517792	21	1 2.3	19.4
102652 1999 VQ_{52}	15.4	X	93.86967	341.48636	73.55827	7.05549	0.2258010	0.23882274	2.5728764	21	2 10.3	18.4
102653 1999 VG_{53}	15.4	X	77.80636	352.98075	30.00874	4.86193	0.1637415	0.23402701	2.6079068	21	—	—
102654 1999 VV_{53}	15.8	X	325.97135	31.41997	29.31378	5.05479	0.0834174	0.22588057	2.6702390	21	11 18.8	18.9
102655 1999 VV_{54}	16.6	X	35.15632	351.67640	41.85492	2.94855	0.2121358	0.27695307	2.3309445	21	—	—
102656 1999 VY_{54}	16.1	X	49.37607	117.74881	175.26572	0.93388	0.1874359	0.26863660	2.3788073	21	10 28.7	19.0
102657 1999 VZ_{54}	14.9	X	20.53864	74.61726	39.07036	11.22398	0.0784906	0.19323443	2.9631004	21	—	—
102658 1999 VK_{55}	16.5	X	249.78202	186.37700	259.12167	0.60974	0.1496098	0.26304451	2.4124031	21	8 25.4	19.5
102659 1999 VO_{55}	16.5	X	219.61317	125.92517	221.48811	2.07766	0.1947380	0.29620925	2.2287959	21	3 11.0	20.0
102660 1999 VA_{56}	16.8	X	205.06094	119.12651	210.78289	5.21098	0.1483211	0.29201373	2.2500933	21	2 2.8	20.3
102661 1999 VX_{57}	16.4	X	209.62680	108.80798	226.63013	4.03900	0.1877570	0.29251184	2.2475382	21	2 14.9	20.1
102662 1999 VZ_{58}	15.9	X	288.33153	206.14539	228.44027	10.15907	0.0227967	0.26706385	2.3881374	21	10 23.1	18.7
102663 1999 VA_{59}	15.8	X	242.09540	40.07707	42.44391	3.05922	0.0974720	0.21569488	2.7536548	21	8 18.1	19.7
102664 1999 VB_{59}	16.3	X	178.89977	211.72109	226.46389	2.86028	0.1061292	0.29877577	2.2160138	21	5 30.2	19.3
102665 1999 VC_{59}	16.2	X	281.66236	338.27258	43.98851	2.75000	0.2221011	0.26128045	2.4232494	21	6 28.7	19.2
102666 1999 VO_{60}	15.8	X	352.47396	119.89875	212.95663	6.65064	0.1409619	0.26508125	2.4000302	21	9 5.9	18.0
102667 1999 VB_{62}	15.7	X	59.73817	52.43696	223.80157	14.61106	0.1577742	0.26652691	2.3913438	21	10 12.1	18.9
102668 1999 VG_{62}	15.8	X	326.36704	69.10361	225.74851	6.07694	0.1087887	0.25658206	2.4527420	21	5 21.5	18.4
102669 1999 VQ_{62}	15.6	X	118.94579	19.29694	53.14592	3.21579	0.1270880	0.20015672	2.8943826	21	3 27.1	19.7
102670 1999 VT_{62}	15.3	X	38.05101	52.56947	49.85257	11.07306	0.1361731	0.23816099	2.5776402	21	—	—
102671 1999 VW_{62}	15.6	X	70.60070	353.14465	49.14432	8.22908	0.2314401	0.23635074	2.5907852	21	—	—
102672 1999 VY_{62}	14.8	X	113.40206	295.90956	47.42516	13.75037	0.1839883	0.23625835	2.5914606	21	—	—
102673 1999 VZ_{63}	16.3	X	182.77332	254.18102	50.86842	6.94082	0.1549417	0.28557112	2.2838094	21	—	—
102674 1999 VA_{66}	15.4	X	352.04721	286.94863	67.23123	4.28072	0.1044859	0.22092978	2.7099828	21	10 4.2	18.4
102675 1999 VM_{66}	16.3	X	5.52214	133.57477	201.06965	2.38204	0.1750625	0.26668612	2.3903919	21	10 13.3	18.1
102676 1999 VC_{67}	15.5	X	16.67078	36.40881	68.29500	4.36381	0.0601210	0.23584066	2.5945194	21	—	—
102677 1999 VJ_{68}	16.1	X	279.30171	158.33074	207.24367	1.87346	0.2074783	0.25893604	2.4378541	21	6 4.6	19.5
102678 1999 VL_{68}	15.6	X	337.68722	144.84835	204.79138	2.14448	0.1987268	0.26439117	2.4042045	21	8 31.9	17.3
102679 1999 VP_{68}	17.0	X	203.86141	218.22401	225.76458	3.92510	0.0883515	0.30231902	2.1986650	21	7 6.2	19.8
102680 1999 VQ_{68}	16.1	X	219.42960	248.87244	53.73862	7.30508	0.2008201	0.28973226	2.2618900	21	1 17.5	19.8
102681 1999 VM_{69}	16.0	X	0.24582	156.86371	251.05606	1.19028	0.0959986	0.22833676	2.6510555	21	12 27.9	19.1
102682 1999 VQ_{69}	16.4	X	157.29548	264.59101	39.98900	5.96312	0.1776852	0.28282837	2.2985506	21	—	—
102683 1999 VW_{69}	16.4	X	354.29608	99.22674	224.68830	2.71745	0.2151802	0.31051475	2.1598051	21	9 8.9	17.3
102684 1999 VG_{70}	16.4	X	131.06170	100.60450	219.22464	2.68062	0.2504639	0.23662837	2.5887583	21	—	—
102685 1999 VK_{70}	16.4	X	350.85618	347.92902	46.65760	6.99684	0.1073319	0.27060546	2.3672548	21	12 6.3	18.8
102686 1999 VS_{70}	16.8	X	123.53187	52.46816	51.99931	4.87931	0.0741009	0.29496536	2.2350575	21	4 26.4	19.3
102687 1999 VR_{71}	16.8	X	80.03125	306.74038	62.86430	3.04546	0.1028325	0.27894735	2.3198214	21	—	—
102688 1999 VK_{72}	15.1	X	212.46290	34.14251	114.45610	4.38147	0.1444426	0.25936523	2.4351640	21	10 8.4	18.6
102689 1999 VA_{73}	16.4	X	37.67911	308.40780	42.78386	3.03121	0.1913884	0.27247022	2.3564416	21	12 31.4	19.5
102690 1999 VG_{73}	15.8	X	126.13699	281.62709	194.68631	5.75617	0.0864759	0.25415744	2.4683164	21	5 21.6	19.1
102691 1999 VS_{73}	16.0	X	247.33114	92.56709	44.97736	3.54687	0.1011074	0.27184343	2.3600624	21	11 10.7	18.9
102692 1999 VW_{73}	16.3	X	168.10640	309.14688	164.60442	2.26601	0.1632736	0.25746986	2.4471004	21	7 7.5	20.1
102693 1999 VL_{77}	16.9	X	338.80090	15.22586	9.22598	2.58661	0.2002833	0.26833877	2.3805671	21	11 4.1	18.4
102694 1999 VO_{77}	14.9	X	338.40272	331.40686	26.29842	8.87863	0.0872686	0.26452328	2.4034040	21	9 22.2	17.4
102695 1999 VP_{77}	15.9	X	346.49090	342.44211	11.73423	2.66555	0.2136243	0.26628895	2.3927682	21	10 4.6	17.2
102696 1999 VA_{81}	15.9	X	319.22987	216.89182	114.77753	3.96382	0.1907299	0.26070999	2.4267830	21	6 20.4	18.2
102697 1999 VE_{84}	15.5	X	142.94685	20.33101	193.68761	7.83610	0.0412775	0.22687678	2.6624166	21	10 14.9	19.1
102698 1999 VL_{85}	13.5	X	156.32837	229.37383	105.52256	19.18550	0.0628092	0.14894725	3.5246370	21	1 10.6	18.7
102699 1999 VH_{86}	16.2	X	9.90767	231.71468	167.36100	5.65976	0.1073691	0.27430327	2.3459318	21	—	—
102700 1999 VR_{86}	16.5	X	96.80478	355.60577	29.42024	5.08413	0.1860842	0.28590345	2.2820393	21	—	—
102701 1999 VU_{86}	16.1	X	131.09895	204.90856	170.52483	14.27263	0.1994887	0.24160175	2.5531088	21	1 28.9	19.9
102702 1999 VY_{86}	15.3	X	41.70744	259.00571	158.53637	12.76758	0.1944230	0.23364648	2.6107376	21	—	—
102703 1999 VE_{87}	15.4	X	54.80783	152.76042	208.41195	24.33558	0.2688767	0.27557969	2.3386824	21	—	—
102704 1999 VO_{87}	15.3	X	287.42132	29.28999	50.57365	14.37218	0.1340423	0.22264098	2.6960792	21	10 14.3	18.6
102705 1999 VM_{88}	15.9	X	346.75444	294.66700	38.88959	5.42157	0.1353529	0.26442570	2.4039953	21	8 31.8	18.1
102706 1999 VT_{90}	15.6	X	32.27409	42.90709	39.55275	4.87216	0.3021074	0.23534276	2.5981775	21	—	—
102707 1999 VA_{91}	16.7	X	238.07879	76.52264	222.45585	7.14196	0.1803009	0.29296840	2.2452026	21	1 24.9	20.5
102708 1999 VB_{91}	15.2	X	224.65974	211.90785	43.53856	6.96909	0.1318633	0.23885423	2.5726503	21	—	—
102709 1999 VL_{91}	15.5	X	349.63316	339.74115	38.98793	6.47430	0.0489451	0.22485988	2.6783134	21	10 29.9	18.8
102710 1999 VM_{91}	16.3	X	225.48495	194.90372	203.31491	5.27507	0.1071895	0.25668388	2.4520932	21	5 29.8	19.8
102711 1999 VE_{93}	16.0	X	327.56017	74.44998	17.79077	3.49289	0.2132117	0.22941579	2.6427364	21	—	—
102712 1999 VQ_{93}	16.2	X	173.49455	85.27581	31.63596	1.61581	0.1291826	0.25853491	2.4403751	21	7 17.3	19.8
102713 1999 VT_{93}	15.5	X	144.93400	192.53279	200.89547	1.62754	0.1033216	0.20096444	2.8866219	21	3 3.3	19.8
102714 1999 VW_{93}	16.6	X	353.82752	244.82932	28.34142	4.26006	0.0850301	0.30405265	2.1902996	21	6 5.5	18.4
102715 1999 VZ_{93}	15.3	X	60.26281	42.80704	32.28267	15.48643	0.0353109	0.24057673	2.5603557	21	—	—
102716 1999 VZ_{94}	16.5	X	190.38454	284.34556	30.29227	4.40015	0.1579043	0.28928723	2.2642092	21	1 3.7	19.9
102717 1999 VO_{95}	16.7	X	312.10707	273.15586	52.09807	2.77636	0.1826981	0.26081352	2.4261407	21	5 29.4	19.2
102718 1999 VZ_{97}	16.2	X	248.53077	46.00365	54.97458	3.88292	0.0956397	0.26493256	2.4009281	21	9 24.9	19.1
102719 1999 VR_{98}	16.3	X	332.66463	193.16682	44.78443	7.87529	0.0702767	0.29429927	2.2384287	21	3 13.6	18.8
102720 1999 VW_{98}	16.3	X	147.78695	314.24656	222.74985	6.94128	0.0837391	0.26186373	2.4196496	21	9 3.4	19.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
102721 1999 VZ_{98}	15.7	X	5.50054	52.56468	221.12171	5.66105	0.1029894	0.25842921	2.4410405	21	6 30.5	18.2
102722 1999 VL_{99}	16.3	X	228.51695	313.67968	182.23720	1.85915	0.0379027	0.22135511	2.7065103	21	10 17.1	19.9
102723 1999 VM_{99}	16.5	X	114.98025	246.92715	64.72909	3.37807	0.1623929	0.27759652	2.3273411	21	—	—
102724 1999 VP_{99}	16.0	X	101.63314	126.67816	219.73413	4.72911	0.2103123	0.23496945	2.6009287	21	—	—
102725 1999 VE_{100}	16.7	X	195.61295	233.29146	236.27330	1.74170	0.1497178	0.25787379	2.4445443	21	7 28.6	20.4
102726 1999 VX_{100}	16.8	X	260.89557	116.94874	261.82215	0.23281	0.2019760	0.25818987	2.4425488	21	6 1.5	20.4
102727 1999 VF_{101}	16.0	X	163.81067	286.50013	40.30202	1.72614	0.0343023	0.23808257	2.5782062	21	—	—
102728 1999 VS_{101}	15.8	X	350.29040	205.99063	225.60257	2.42583	0.0634700	0.22874131	2.6479289	21	—	—
102729 1999 VX_{101}	16.1	X	14.47265	233.09218	72.29060	2.50022	0.1936163	0.26415601	2.4056312	21	9 19.8	18.1
102730 1999 VE_{102}	15.7	X	65.46785	297.77494	148.17646	14.15351	0.1575320	0.23850500	2.5751611	21	1 21.1	18.4
102731 1999 VJ_{102}	15.6	X	110.47475	168.38817	150.29811	1.13786	0.2592823	0.18827700	3.0148881	21	—	—
102732 1999 VV_{102}	17.1	X	183.88243	260.69195	52.94926	2.08428	0.1234138	0.28614532	2.2807532	21	—	—
102733 1999 VX_{103}	16.4	X	171.27277	306.45141	233.13094	5.38494	0.0504953	0.26474509	2.4020614	21	10 6.0	19.6
102734 1999 VB_{104}	14.8	X	193.29926	353.34887	228.81569	16.59616	0.0438945	0.18255490	3.0775637	21	12 13.2	19.4
102735 1999 VX_{104}	16.4	X	351.96095	217.74891	63.14773	2.61514	0.1313496	0.25707349	2.4496151	21	6 14.6	18.8
102736 1999 VE_{105}	15.6	X	290.67176	303.95409	55.19356	5.39032	0.1074911	0.21324864	2.7746734	21	6 28.1	19.2
102737 1999 VW_{105}	16.3	X	100.77995	203.34187	65.16483	5.61674	0.1450955	0.26873296	2.3782386	21	11 18.5	19.8
102738 1999 VM_{106}	16.7	X	309.35011	80.23202	240.78755	6.03579	0.1864418	0.30319020	2.1944513	21	5 14.3	19.0
102739 1999 VB_{107}	15.8	X	63.21165	78.40666	228.28074	5.60943	0.0989299	0.26870610	2.3783971	21	11 20.6	18.9
102740 1999 VJ_{107}	15.4	X	262.59691	336.03663	262.07900	1.69551	0.0848739	0.19251494	2.9704786	21	—	—
102741 1999 VX_{109}	16.7	X	94.28819	77.42545	228.85572	1.42097	0.2182167	0.27446893	2.3449878	21	—	—
102742 1999 VE_{111}	15.9	X	357.80474	294.20953	40.08014	2.52812	0.2337221	0.26504548	2.4002461	21	10 3.3	17.3
102743 1999 VJ_{111}	15.5	X	132.33448	218.48371	87.35414	2.42732	0.0995402	0.23059872	2.6336908	21	—	—
102744 1999 VO_{111}	15.6	X	53.93184	60.98551	68.06363	13.48907	0.0895678	0.24147079	2.5540319	21	3 4.5	18.8
102745 1999 VZ_{111}	14.7	X	128.84055	253.48189	64.06210	14.65202	0.1316330	0.23207978	2.6224739	21	—	—
102746 1999 VK_{113}	16.1	X	121.13782	224.97023	67.54957	8.00089	0.1183261	0.27331369	2.3515910	21	—	—
102747 1999 VB_{116}	16.2	X	91.60257	305.39610	168.69818	2.11869	0.1377868	0.24527686	2.5275417	21	4 10.8	19.2
102748 1999 VL_{117}	15.4	X	356.81316	139.90522	129.78533	1.76712	0.1740339	0.17094641	3.2153584	21	6 10.0	18.9
102749 1999 VY_{117}	15.5	X	341.02024	216.87115	201.90031	13.05044	0.1710606	0.22812905	2.6526645	21	12 17.2	18.4
102750 1999 VO_{119}	16.1	X	265.68045	282.98478	345.00193	3.00176	0.0461681	0.24565802	2.5249266	21	2 1.7	19.6
102751 1999 VR_{120}	16.4	X	182.81803	209.49516	47.04791	7.60058	0.0763034	0.28076022	2.3098246	21	—	—
102752 1999 VX_{121}	16.5	X	143.92247	233.98714	65.23541	7.57460	0.1145562	0.27854627	2.3220478	21	—	—
102753 1999 VB_{123}	15.4	X	159.59272	44.90246	218.54530	6.28244	0.1076792	0.27536093	2.3399209	21	—	—
102754 1999 VY_{123}	17.0	X	85.62010	131.95510	163.39806	2.19598	0.1570160	0.27090467	2.3655114	21	12 8.3	20.5
102755 1999 VX_{127}	16.2	X	246.43190	7.66220	62.53174	2.99221	0.1800201	0.26214941	2.4178914	21	7 28.4	19.6
102756 1999 VZ_{127}	15.8	X	243.49048	255.90313	239.53434	3.45415	0.0404083	0.22392269	2.6857813	21	11 3.8	19.3
102757 1999 VA_{128}	16.5	X	313.28038	0.77487	309.51354	0.59927	0.1860686	0.25801529	2.4436505	21	5 8.7	19.1
102758 1999 VK_{130}	15.8	X	175.90611	36.45930	288.76211	4.38623	0.2856476	0.24292147	2.5438536	21	1 18.5	20.1
102759 1999 VL_{130}	15.9	X	213.22965	234.24422	44.27137	23.21144	0.1713824	0.28513573	2.2861337	21	—	—
102760 1999 VG_{132}	16.8	X	321.76302	264.53776	148.06933	1.62145	0.1678390	0.26832011	2.3806775	21	11 10.0	18.7
102761 1999 VH_{133}	17.0	X	60.89537	47.79769	234.16551	1.36333	0.1031322	0.31300523	2.1483333	21	10 21.7	19.5
102762 1999 VX_{133}	15.4	X	28.07225	240.48462	234.86481	5.63767	0.1124164	0.23853662	2.5749335	21	—	—
102763 1999 VO_{135}	16.2	X	39.69901	328.74957	25.89392	4.80372	0.0785614	0.27310150	2.3528089	21	12 21.5	19.2
102764 1999 VF_{136}	16.2	X	82.12073	213.07499	53.94611	7.23988	0.1152144	0.26613947	2.3936640	21	10 25.3	19.4
102765 1999 VN_{136}	15.5	X	286.66154	64.72824	63.56846	15.11046	0.0440810	0.22572799	2.6714421	21	12 21.3	19.1
102766 1999 VQ_{136}	16.7	X	227.64537	335.45308	60.09866	6.95370	0.0900529	0.29884876	2.2156530	21	5 27.2	19.4
102767 1999 VZ_{136}	17.2	X	104.70865	353.95882	227.65123	2.27354	0.0286967	0.30761839	2.1733409	21	9 12.3	19.8
102768 1999 VC_{139}	15.9	X	99.58952	240.18438	131.24280	2.30189	0.1555810	0.23607510	2.5928015	21	—	—
102769 1999 VW_{139}	16.2	X	68.12140	8.55915	273.76341	1.64656	0.2068607	0.27015114	2.3699081	21	11 8.1	19.5
102770 1999 VK_{140}	16.3	X	60.02996	119.65817	239.69291	2.63154	0.2634826	0.23220976	2.6214952	21	—	—
102771 1999 VY_{141}	16.3	X	261.41212	4.99891	247.30720	2.39981	0.0739503	0.24156432	2.5533726	21	1 5.5	20.1
102772 1999 VT_{142}	16.7	X	2.49554	309.47055	336.99903	1.69207	0.1666023	0.26174889	2.4203573	21	7 17.6	18.5
102773 1999 VD_{144}	16.0	X	327.33657	152.62068	308.39160	1.39607	0.1642116	0.22894896	2.6463276	21	—	—
102774 1999 VH_{144}	15.6	X	330.04087	47.31751	31.21089	13.41069	0.1230941	0.22725623	2.6594522	21	12 20.4	18.8
102775 1999 VS_{144}	13.7	X	305.19569	114.78813	239.89433	21.01878	0.0757416	0.17266364	3.1940040	21	7 11.7	18.4
102776 1999 VZ_{144}	15.6	X	102.39536	190.56778	272.29995	7.18746	0.1087092	0.24646764	2.5193942	21	4 1.3	19.0
102777 1999 VH_{145}	15.3	X	72.42406	328.87556	16.98940	12.63636	0.1864122	0.23493928	2.6011513	21	—	—
102778 1999 VT_{145}	16.2	X	96.36319	201.26156	135.09776	1.25686	0.0332454	0.22991033	2.6389453	21	—	—
102779 1999 VN_{146}	15.9	X	357.93924	9.94288	216.91971	6.50062	0.0796893	0.25026039	2.4938747	21	4 7.8	18.6
102780 1999 VO_{147}	16.9	X	273.78328	231.93993	85.35661	2.95034	0.1954931	0.29924438	2.2136997	21	3 24.8	20.1
102781 1999 VO_{148}	16.0	X	322.34164	92.53240	270.30796	2.04467	0.1479398	0.21853796	2.7297202	21	8 17.6	18.9
102782 1999 VE_{151}	15.7	X	355.52212	318.58622	47.33811	6.38244	0.0572499	0.22134020	2.7066318	21	10 22.4	19.1
102783 1999 VK_{151}	16.1	X	160.39339	221.44509	47.08423	7.51906	0.0905047	0.27549620	2.3391549	21	—	—
102784 1999 VB_{152}	16.4	X	103.89755	148.82105	94.21672	2.86015	0.1342289	0.26557151	2.3970756	21	10 20.1	19.9
102785 1999 VW_{152}	16.6	X	139.25798	38.16850	208.39107	4.42575	0.0711033	0.26968245	2.3726532	21	11 28.1	19.9
102786 1999 VV_{153}	16.6	X	119.40877	181.58007	85.67923	3.30542	0.1923817	0.27137416	2.3627824	21	12 6.7	20.4
102787 1999 VN_{154}	16.8	X	317.88456	186.26407	48.67106	3.41438	0.1190507	0.29192904	2.2505285	21	2 5.5	19.4
102788 1999 VY_{154}	15.6	X	33.92234	211.66815	207.09619	5.89294	0.0802938	0.28221878	2.3018593	21	—	—
102789 1999 VJ_{156}	17.1	X	76.45980	137.82559	224.80308	2.53858	0.1566388	0.27812946	2.3243671	21	—	—
102790 1999 VH_{157}	16.8	X	343.47296	122.85387	282.79047	1.20273	0.2206668	0.27306397	2.3530245	21	12 24.8	18.4
102791 1999 VR_{157}	16.2	X	351.36797	88.17019	307.69346	1.90390	0.1671300	0.27237393	2.3569970	21	12 18.0	18.3
102792 1999 VN_{158}	16.2	X	214.01670	55.21085	35.19024	7.03482	0.0761308	0.25929574	2.4355991	21	7 31.0	19.7
102793 1999 VO_{158}	16.1	X	48.96578	321.03648	350.67012	2.06555	0.2392261	0.27096744	2.3651461	21	11 29.1	19.3
102794 1999 VZ_{158}	15.5	X	308.51823	91.37281	36.37006	12.70561	0.2166104	0.22903627	2.6456550	21	—	—
102795 1999 VA_{163}	16.1	X	342.04339	121.56260	242.86344	2.75047	0.2403439	0.26775942	2.3839998	21	10 10.9	17.5
102796 1999 VB_{163}	16.3	X	335.90849	58.02119	338.47214	1.41511	0.2113029	0.22399851	2.6851752	21	11 3.5	18.4
102797 1999 VE_{165}	15.0	X	184.20898	108.78222	41.08527	15.58956	0.0787583	0.21641510	2.7475420	21	9 16.7	19.3
102798 1999 VF_{165}	15.8	X	214.78232	73.16392	31.62467	6.63324	0.0796305	0.26040613	2.4286704	21	8 21.1	19.2
102799 1999 VO_{165}	15.6	X	75.90025	225.78641	5.98556	3.68827	0.0199607	0.21408763	2.7674195	21	8 11.8	19.3
102800 1999 VS_{165}	15.9	X	303.92780	298.36973	264.15333	4.76529	0.1036593	0.28421208	2.2910841	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
102801 1999 VX_{166}	16.0	X	149.45285	83.12909	46.11211	8.22857	0.0771558	0.25484924	2.4638475	21	7 5.5	19.5
102802 1999 VB_{168}	15.8	X	25.39040	149.36926	26.75582	3.21963	0.1589235	0.28907854	2.2652987	21	3 3.4	17.4
102803 1999 VA_{169}	16.6	X	49.84348	268.96990	51.65751	4.84736	0.2354818	0.31595402	2.1349455	21	12 19.2	19.5
102804 1999 VJ_{170}	15.7	X	152.38390	331.76758	30.62247	3.00829	0.0828914	0.24018842	2.5631145	21	1 25.3	19.3
102805 1999 VM_{170}	16.0	X	22.97244	36.11936	38.58893	3.77296	0.1310651	0.23175227	2.6249440	21	—	—
102806 1999 VU_{170}	16.6	X	88.73032	188.62902	280.27549	4.17909	0.0754347	0.28957342	2.2627171	21	3 10.2	19.1
102807 1999 VE_{171}	15.2	X	249.88060	223.07556	61.19221	16.12020	0.0960638	0.24205435	2.5499253	21	2 5.5	19.3
102808 1999 VG_{172}	15.6	X	206.57901	59.26488	62.76625	10.90039	0.0467781	0.25966614	2.4332823	21	9 9.9	19.1
102809 1999 VT_{173}	15.7	X	357.31072	302.80310	70.46954	6.48524	0.0736720	0.22355731	2.6887069	21	11 5.8	18.9
102810 1999 VH_{174}	14.8	X	135.64695	103.88079	291.59112	11.52768	0.2779462	0.24559449	2.5253620	21	3 4.1	19.0
102811 1999 VM_{176}	16.3	X	117.82953	281.65865	99.31635	1.36736	0.1398423	0.24014788	2.5634029	21	1 13.8	19.6
102812 1999 VO_{176}	16.3	X	18.68990	137.97537	304.21102	0.61814	0.1177343	0.23418174	2.6067579	21	—	—
102813 1999 VE_{177}	15.8	X	16.48755	235.58641	151.47889	6.79993	0.1033946	0.27337784	2.3512231	21	—	—
102814 1999 VK_{177}	15.5	X	130.96040	156.15455	79.24040	8.39181	0.0710302	0.26936103	2.3745403	21	11 6.2	18.8
102815 1999 VL_{177}	15.9	X	146.15241	152.79945	179.38563	8.06513	0.1593969	0.28481080	2.2878721	21	—	—
102816 1999 VK_{179}	16.7	X	178.54374	249.49550	112.51146	5.60168	0.1766395	0.29211183	2.2495896	21	2 23.0	20.1
102817 1999 VE_{180}	15.6	X	49.81698	350.40572	68.22470	8.61677	0.1796311	0.23573190	2.5953174	21	—	—
102818 1999 VH_{180}	15.8	X	196.59477	136.00006	175.92766	6.22070	0.1622952	0.28916526	2.2648458	21	1 5.4	19.4
102819 1999 VJ_{181}	16.4	X	51.48225	56.00768	26.24522	1.08555	0.0941354	0.23752332	2.5822516	21	—	—
102820 1999 VO_{181}	16.0	X	262.18173	100.84416	55.25600	11.11575	0.1517746	0.22621049	2.6676420	21	12 8.4	19.4
102821 1999 VR_{181}	17.0	X	73.82788	127.07181	237.97840	2.62778	0.1422170	0.27838434	2.3229481	21	—	—
102822 1999 VD_{182}	16.3	X	82.31543	57.92520	217.58834	2.70273	0.1155002	0.26723722	2.3871045	21	11 4.3	19.4
102823 1999 VM_{182}	16.8	X	340.68644	229.50812	150.99635	1.02236	0.0838476	0.26700463	2.3884905	21	10 27.8	19.2
102824 1999 VU_{182}	15.9	X	97.48009	203.52140	58.35442	5.13143	0.0361067	0.26558575	2.3969899	21	10 27.3	18.9
102825 1999 VQ_{183}	15.3	X	103.61465	187.84610	157.37601	1.12273	0.0961195	0.18767572	3.0213242	21	—	—
102826 1999 VA_{184}	16.7	X	250.52920	244.97343	137.45814	1.68832	0.1961793	0.25746997	2.4470997	21	5 27.5	20.2
102827 1999 VU_{184}	15.8	X	59.00465	200.10326	194.05111	5.42301	0.1251539	0.23505909	2.6002674	21	—	—
102828 1999 VS_{186}	16.1	X	210.99204	133.37147	204.90045	7.51945	0.1783238	0.29353482	2.2423134	21	2 18.6	19.7
102829 1999 VK_{187}	16.4	X	289.47249	315.47294	79.81812	4.93627	0.1607706	0.26289687	2.4133062	21	8 10.9	19.1
102830 1999 VU_{187}	16.6	X	141.01152	260.64211	89.74030	4.79484	0.1713667	0.28532120	2.2851428	21	—	—
102831 1999 VK_{189}	15.7	X	98.42842	93.37266	228.21142	7.75370	0.2148572	0.27627408	2.3347620	21	—	—
102832 1999 VL_{189}	16.2	X	165.23638	140.19632	210.47807	4.11268	0.1645424	0.28744104	2.2738939	21	1 23.2	19.5
102833 1999 VU_{189}	16.0	X	62.85981	204.02101	192.99467	3.67224	0.2072885	0.23357210	2.6112918	21	—	—
102834 1999 VF_{190}	16.7	X	185.47241	294.25080	109.50979	3.90042	0.1184189	0.29492421	2.2352654	21	4 22.5	19.9
102835 1999 VN_{190}	16.1	X	112.12716	226.17049	151.56383	2.58412	0.0435473	0.23751162	2.5823363	21	—	—
102836 1999 VL_{191}	15.3	X	315.92245	94.10167	60.59238	3.71287	0.0516244	0.18874132	3.0099415	21	—	—
102837 1999 VE_{192}	15.0	X	79.17148	349.83824	50.68769	10.88567	0.0980177	0.19028178	2.9936745	21	—	—
102838 1999 VO_{192}	15.6	X	94.19298	270.69859	22.13083	10.94628	0.1743100	0.27362782	2.3497909	21	12 13.6	19.4
102839 1999 VY_{193}	16.4	X	128.19592	12.95484	359.63093	3.31429	0.2486520	0.24078899	2.5588508	21	1 31.6	20.0
102840 1999 VO_{194}	15.7	X	107.35907	265.30853	163.48931	8.40613	0.1416123	0.24264655	2.5457747	21	3 2.9	18.9
102841 1999 VT_{194}	16.0	X	246.19015	339.76865	124.21813	1.52379	0.1592582	0.26522477	2.3991643	21	9 15.1	19.0
102842 1999 VP_{196}	15.9	X	137.88004	237.63165	98.12626	12.28568	0.2418263	0.28415194	2.2914074	21	—	—
102843 1999 VZ_{197}	15.1	X	337.73234	312.38938	102.12736	8.81815	0.0932524	0.18099971	3.0951673	21	11 22.4	19.0
102844 1999 VM_{198}	16.2	X	245.72649	213.64819	112.69936	8.54291	0.1621067	0.29680770	2.2257990	21	3 13.5	19.6
102845 1999 VP_{198}	15.8	X	9.46035	218.88269	128.68572	8.43111	0.1599520	0.22363847	2.6880564	21	11 2.0	18.9
102846 1999 VR_{201}	15.8	X	131.43591	75.54454	299.84071	2.49340	0.2173306	0.24096637	2.5575949	21	2 2.4	19.5
102847 1999 VV_{202}	13.9	X	295.36745	114.61108	290.20051	11.00488	0.2545984	0.17337569	3.1852528	21	8 8.2	18.0
102848 1999 VR_{203}	15.5	X	240.54910	340.73775	74.09146	10.59520	0.2051477	0.26145873	2.4221477	21	6 27.6	19.2
102849 1999 VT_{210}	15.9	X	246.67027	51.96172	1.94316	4.56946	0.1543236	0.21385160	2.7694554	21	7 9.3	20.0
102850 1999 VF_{211}	16.3	X	6.83194	171.74737	298.46903	3.80167	0.2080682	0.23432586	2.6056890	21	—	—
102851 1999 VX_{212}	15.8	X	9.91181	305.26062	112.35283	4.84078	0.1143209	0.22961277	2.6412247	21	—	—
102852 1999 VG_{213}	16.9	X	278.85756	324.84253	226.02194	3.98210	0.1613942	0.27823159	2.3237983	21	—	—
102853 1999 VU_{217}	16.1	X	142.60220	233.44678	37.76632	10.94170	0.0769879	0.27703049	2.3305102	21	—	—
102854 1999 VN_{220}	16.0	X	87.21268	28.12542	263.81949	8.49485	0.2312805	0.27292715	2.3538108	21	12 11.5	19.8
102855 1999 VM_{223}	16.2	X	24.40494	264.36593	143.71503	6.81471	0.0873143	0.27620557	2.3351481	21	—	—
102856 1999 VQ_{223}	14.3	X	285.58157	72.65509	92.42165	13.53957	0.1374791	0.18452130	3.0556601	21	—	—
102857 1999 VG_{224}	16.0	X	256.18991	261.39194	174.56757	6.73729	0.1098279	0.26130318	2.4231088	21	8 25.7	19.0
102858 1999 VY_{225}	16.4	X	73.96606	233.55461	163.48503	5.16858	0.1753209	0.23549298	2.5970725	21	—	—
102859 1999 WH_{1}	16.6	X	40.90472	335.61729	49.09714	4.17911	0.2404928	0.27517748	2.3409607	21	—	—
102860 1999 WJ_{1}	15.7	X	323.12257	291.67663	61.09457	9.04783	0.1139460	0.26030208	2.4293176	21	8 16.3	18.3
102861 1999 WZ_{2}	15.8	X	275.44730	113.80064	81.04268	4.77168	0.0997092	0.27811820	2.3244298	21	—	—
102862 1999 WB_{3}	16.2	X	92.41367	343.50702	82.92043	2.39625	0.2136851	0.24000508	2.5644196	21	2 19.6	19.1
102863 1999 WL_{3}	14.9	X	45.41453	32.86917	87.92728	13.65335	0.2282972	0.23760334	2.5816718	21	2 10.4	17.2
102864 1999 WA_{4}	15.9	X	49.57118	346.01181	8.33475	2.67107	0.2457159	0.27372347	2.3492434	21	—	—
102865 1999 WD_{4}	14.9	X	60.05193	331.29392	49.09942	11.05049	0.1170889	0.23047450	2.6346371	21	—	—
102866 1999 WA_{5}	15.9	X	64.58284	266.57357	124.09990	4.92984	0.2504672	0.27843816	2.3226488	21	—	—
102867 1999 WE_{5}	15.8	X	56.54185	236.92780	149.24100	6.09172	0.2159558	0.27597372	2.3364558	21	—	—
102868 1999 WO_{6}	15.3	X	204.55683	19.06697	76.91092	14.74522	0.1633831	0.21098467	2.7944871	21	7 20.1	19.9
102869 1999 WN_{10}	15.0	X	351.37804	49.51144	38.59788	11.01364	0.1020057	0.18773049	3.0207365	21	—	—
102870 1999 WZ_{10}	16.4	X	115.10334	139.06256	317.43698	0.44198	0.2240045	0.29198898	2.2502205	21	4 25.4	19.4
102871 1999 WB_{11}	16.4	X	20.33690	315.24743	79.33113	3.50249	0.2090227	0.27410505	2.3470627	21	—	—
102872 1999 WE_{11}	15.2	X	222.95375	154.99253	92.07078	2.91224	0.0389446	0.18886626	3.0086139	21	—	—
102873 1999 WK_{11}	17.5	X	53.87870	220.40229	72.60492	7.46252	0.4671599	0.31665956	2.1317731	21	12 10.8	21.2
102874 1999 WA_{12}	15.4	X	211.23171	5.47314	81.80957	5.42678	0.0663653	0.21087542	2.7954522	21	7 21.3	19.5
102875 1999 WB_{12}	16.2	X	17.06008	241.80781	87.71825	3.45532	0.1609408	0.26528925	2.3987756	21	10 26.9	18.5
102876 1999 WL_{12}	16.6	X	328.28711	158.25081	216.11944	5.55709	0.1501685	0.26778531	2.3838461	21	9 21.6	18.8
102877 1999 WV_{13}	16.4	X	95.25413	203.89749	54.86304	7.52763	0.0726081	0.26724439	2.3870617	21	10 25.3	19.5
102878 1999 WZ_{14}	16.1	X	99.70441	299.34473	33.53962	6.63284	0.1650717	0.28064217	2.3104723	21	—	—
102879 1999 WP_{15}	16.8	X	111.78222	349.51963	224.06469	4.83564	0.1015648	0.26237743	2.4164904	21	9 13.3	20.2
102880 1999 WA_{18}	16.4	X	55.50777	228.82668	69.13773	1.71909	0.2168498	0.26942871	2.3741426	21	11 16.1	19.5

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
102881 1999 WE_{18}	16.6	X	187.63171	126.12557	235.15304	7.09612	0.1634405	0.29270534	2.2465475	21	2 24.9	20.2
102882 1999 WX_{19}	15.8	X	127.05220	18.45379	346.06753	3.63388	0.2635423	0.23976022	2.5661653	21	1 22.3	19.4
102883 1999 WA_{20}	15.6	X	79.44236	283.61927	156.88481	8.78524	0.0733298	0.23995030	2.5648099	21	1 26.9	18.7
102884 1999 XQ_{1}	15.7	X	61.94036	347.07162	90.50006	6.40596	0.2541224	0.23955444	2.5676346	21	1 12.8	17.6
102885 1999 XX_{1}	15.6	X	357.02099	153.40439	250.08592	3.92507	0.2222607	0.27183149	2.3601315	21	—	—
102886 1999 XG_{4}	16.7	X	148.57841	237.46061	115.24383	0.97609	0.2110826	0.28669438	2.2778402	21	1 14.7	19.8
102887 1999 XM_{4}	15.5	X	287.98179	225.33430	179.69558	2.26856	0.2046633	0.26324742	2.4111633	21	8 12.7	18.3
102888 1999 XV_{4}	16.8	X	36.61827	260.69705	107.51541	1.99225	0.1316431	0.31884074	2.1220397	21	—	—
102889 1999 XL_{5}	15.9	X	121.49901	358.14841	75.04708	4.25359	0.2201509	0.24475672	2.5311214	21	4 7.6	19.5
102890 1999 XV_{5}	15.7	X	73.29764	358.13740	66.87499	7.69563	0.0363202	0.23773514	2.5807175	21	—	—
102891 1999 XK_{6}	16.4	X	345.60160	335.19756	59.65031	3.30366	0.1936323	0.26925209	2.3751807	21	12 7.2	18.2
102892 1999 XY_{6}	15.2	X	52.38886	63.51027	43.90308	6.64682	0.1956801	0.23849507	2.5752325	21	2 2.3	17.5
102893 1999 XF_{7}	15.8	X	62.08407	25.36335	27.33825	2.49714	0.1328612	0.23481251	2.6020875	21	—	—
102894 1999 XV_{8}	15.4	X	71.48803	340.20503	98.68609	13.18309	0.2198210	0.23830771	2.5765821	21	2 2.9	17.9
102895 1999 XY_{9}	16.2	X	54.09236	63.26859	62.82585	7.45069	0.1611405	0.24203341	2.5500724	21	3 3.2	18.8
102896 1999 XD_{10}	15.6	X	290.25292	41.48395	289.47402	8.32940	0.2620291	0.29755707	2.2220604	21	4 16.2	18.7
102897 1999 XA_{11}	14.3	X	106.61220	228.16922	32.56739	15.45884	0.0543211	0.22273085	2.6953539	21	10 30.8	18.2
102898 1999 XD_{11}	15.7	X	351.06600	329.87631	12.45347	6.82409	0.1229857	0.26501226	2.4004467	21	9 21.6	18.0
102899 1999 XN_{11}	15.2	X	238.71922	350.09934	24.74797	7.68367	0.0930803	0.25415253	2.4683482	21	5 12.7	18.8
102900 1999 XX_{12}	14.9	X	232.68627	286.33804	217.10032	12.72194	0.1085844	0.21948380	2.7218723	21	10 21.2	18.9
102901 1999 XU_{14}	15.1	X	54.72090	8.38452	82.97492	23.01699	0.1222365	0.23723708	2.5843283	21	1 6.9	18.0
102902 1999 XD_{15}	15.1	X	139.12364	129.97886	319.57241	24.13024	0.2327674	0.28881891	2.2666561	21	5 1.9	19.2
102903 1999 XK_{15}	15.2	X	116.47718	200.66301	257.82803	10.94165	0.1259399	0.24600544	2.5225488	21	4 16.8	18.8
102904 1999 XF_{16}	15.2	X	345.51131	285.72216	90.52364	11.04812	0.2822387	0.26791383	2.3830837	21	11 21.5	16.7
102905 1999 XV_{16}	16.0	X	292.30440	293.78517	88.41229	7.49787	0.1714020	0.30610249	2.1805103	21	7 25.8	18.0
102906 1999 XJ_{18}	15.4	X	271.30874	10.77756	33.72485	3.33438	0.1693505	0.26349912	2.4096277	21	7 25.7	18.4
102907 1999 XZ_{18}	15.2	X	171.10649	32.27910	16.59601	14.45754	0.2135250	0.25241814	2.4796421	21	4 18.2	19.3
102908 1999 XO_{19}	15.5	X	73.49814	143.17349	236.75499	4.55395	0.1501686	0.28178586	2.3042163	21	—	—
102909 1999 XR_{19}	15.6	X	107.34021	325.58504	31.91200	7.92962	0.1329062	0.28352067	2.2948073	21	—	—
102910 1999 XT_{19}	15.6	X	169.75201	102.14528	228.55176	5.01538	0.2838755	0.29007486	2.2601087	21	1 13.1	19.3
102911 1999 XZ_{19}	15.8	X	307.34786	306.53329	67.70976	3.56809	0.1937512	0.26470327	2.4023144	21	8 4.6	18.0
102912 1999 XA_{21}	15.2	X	164.65393	69.97357	220.76732	22.53795	0.2713077	0.28494283	2.2871653	21	—	—
102913 1999 XT_{21}	15.8	X	123.77896	161.65335	159.83952	7.92386	0.2216294	0.23401956	2.6079621	21	—	—
102914 1999 XT_{22}	15.9	X	268.40045	334.56990	70.69091	3.33606	0.1770451	0.26164777	2.4209809	21	7 21.1	19.0
102915 1999 XT_{23}	14.4	X	206.33245	306.59996	121.44474	1.32241	0.2308536	0.16405179	3.3048270	21	6 14.0	20.1
102916 1999 XG_{24}	15.0	X	5.99590	80.44541	235.44467	21.57666	0.2171411	0.26558533	2.3969924	21	9 8.2	17.6
102917 1999 XK_{24}	16.0	X	281.81933	89.08414	63.92197	11.88845	0.1294333	0.26958216	2.3732416	21	—	—
102918 1999 XW_{24}	15.7	X	139.59055	328.78257	85.38388	3.78656	0.1699952	0.24586693	2.5234961	21	3 27.7	19.4
102919 1999 XC_{26}	16.4	X	46.89515	303.26175	94.00472	2.27151	0.2395452	0.27825390	2.3236740	21	—	—
102920 1999 XC_{27}	15.5	X	335.68975	282.09573	82.81844	3.92593	0.1549147	0.26578855	2.3957705	21	9 27.1	17.4
102921 1999 XH_{27}	15.0	X	33.28158	38.89605	66.68952	15.37153	0.0546125	0.23802073	2.5786527	21	—	—
102922 1999 XA_{30}	15.4	X	163.28474	49.59232	116.73361	6.57156	0.0729264	0.25960326	2.4336752	21	9 12.2	18.9
102923 1999 XX_{30}	15.8	X	109.79256	204.56976	202.79399	3.76254	0.1527554	0.24052915	2.5606933	21	2 6.8	19.0
102924 1999 XZ_{30}	15.6	X	352.82231	85.16387	79.95956	15.84451	0.0940513	0.23848084	2.5753350	21	1 6.7	18.8
102925 1999 XZ_{32}	15.0	X	15.13519	224.01942	291.62854	10.16975	0.0368380	0.23484629	2.6018380	21	1 31.5	18.3
102926 1999 XH_{34}	15.0	X	275.68819	359.84232	122.46969	6.65345	0.2117853	0.21822111	2.7323619	21	11 6.7	18.3
102927 1999 XX_{35}	15.7	X	349.49720	211.84749	161.84106	2.37820	0.2188135	0.26573133	2.3961143	21	11 15.6	17.3
102928 1999 XU_{36}	14.5	X	160.33081	99.32809	273.90827	13.43175	0.1239007	0.24385267	2.5373733	21	2 13.7	18.5
102929 1999 XQ_{37}	15.0	X	13.80615	291.29384	88.02377	16.17979	0.2318117	0.22603330	2.6690360	21	12 29.9	18.1
102930 1999 XO_{40}	16.0	X	303.58665	334.76542	40.99842	3.76374	0.2011532	0.26328763	2.4109179	21	7 29.3	18.4
102931 1999 XE_{41}	15.9	X	12.03591	354.16535	338.16956	1.98404	0.2399962	0.26840871	2.3801536	21	11 2.2	17.8
102932 1999 XH_{41}	16.6	X	301.28690	349.30718	41.36982	3.02288	0.1865395	0.26408757	2.4060468	21	8 20.2	18.9
102933 1999 XV_{41}	16.1	X	32.38239	86.36538	298.22026	1.66487	0.2346570	0.22977758	2.6399616	21	—	—
102934 1999 XY_{42}	15.0	X	9.39174	186.66115	244.01669	21.31195	0.0290703	0.23109384	2.6299277	21	—	—
102935 1999 XK_{43}	15.3	X	84.41246	270.62272	40.55045	4.15626	0.3320794	0.27573897	2.3377817	21	—	—
102936 1999 XH_{44}	15.1	X	251.81722	233.81933	250.88876	10.25893	0.2218850	0.22033565	2.7148523	21	9 30.9	19.3
102937 1999 XS_{46}	16.4	X	311.25770	344.70515	71.33204	5.74660	0.1429291	0.26695061	2.3888127	21	10 26.3	18.5
102938 1999 XU_{47}	16.0	X	53.69288	275.72936	73.19289	3.13356	0.2171477	0.27420894	2.3464699	21	—	—
102939 1999 XV_{47}	16.2	X	345.74348	288.54368	74.77577	2.65769	0.1359064	0.26604049	2.3942577	21	10 14.5	18.2
102940 1999 XY_{49}	16.7	X	301.79594	327.53377	63.30142	6.42571	0.1035624	0.30838201	2.1697517	21	9 11.3	18.7
102941 1999 XF_{50}	15.5	X	132.59539	188.77530	66.35450	7.69760	0.1196784	0.26968027	2.3726660	21	12 1.8	19.1
102942 1999 XX_{50}	16.2	X	116.82354	218.82215	84.84539	8.33959	0.1286598	0.27510828	2.3413532	21	—	—
102943 1999 XY_{51}	15.2	X	347.14062	50.98945	58.34009	7.16277	0.1736972	0.18559544	3.0438589	21	—	—
102944 1999 XE_{52}	15.6	X	279.15634	134.67851	264.55620	3.89169	0.0502648	0.21461652	2.7628710	21	8 12.8	19.4
102945 1999 XT_{52}	15.6	X	323.34265	22.69227	292.42688	1.48716	0.1922245	0.25774118	2.4453827	21	6 1.9	18.0
102946 1999 XM_{53}	15.2	X	332.84961	317.78176	73.41054	12.76930	0.1879031	0.22169569	2.7037376	21	10 25.5	17.9
102947 1999 XS_{53}	16.4	X	252.19163	229.32513	184.94720	1.93088	0.1982944	0.25922660	2.4360321	21	7 9.9	19.9
102948 1999 XU_{54}	16.7	X	311.91264	137.57083	211.12116	1.50732	0.1763938	0.30589760	2.1814838	21	7 5.3	18.3
102949 1999 XB_{56}	15.4	X	258.86476	3.51077	69.23395	6.38561	0.0304948	0.21562982	2.7542086	21	9 7.4	19.2
102950 1999 XF_{56}	15.7	X	139.59983	40.06876	248.25547	5.51020	0.1175159	0.27493624	2.3423299	21	—	—
102951 1999 XG_{56}	15.4	X	235.74456	292.36526	245.25843	6.70163	0.2373931	0.22284704	2.6944170	21	11 20.8	19.5
102952 1999 XB_{58}	15.7	X	235.18593	338.09643	91.03946	6.31403	0.1426834	0.21239584	2.7820956	21	7 17.4	19.8
102953 1999 XR_{58}	16.1	X	97.85850	232.00256	232.85061	3.06485	0.0653216	0.24465369	2.5318319	21	3 24.8	19.4
102954 1999 XX_{58}	16.1	X	321.92751	294.72584	66.06536	3.26380	0.1742465	0.26254628	2.4154542	21	8 17.0	18.1
102955 1999 XZ_{59}	15.8	X	36.45415	250.21488	246.63756	14.04347	0.0558343	0.24060295	2.5601697	21	1 31.6	19.2
102956 1999 XH_{61}	15.6	X	70.56665	243.25462	200.89105	2.71172	0.1247277	0.23859710	2.5744983	21	1 24.2	18.5
102957 1999 XK_{62}	16.0	X	28.53090	48.02129	74.69627	4.71158	0.1780047	0.23704492	2.5857247	21	1 1.2	18.3
102958 1999 XT_{63}	16.3	X	332.81154	293.57616	102.47586	7.20747	0.1387926	0.26699817	2.3885290	21	11 9.8	18.5
102959 1999 XX_{64}	16.7	X	266.54278	186.63221	221.15424	0.63515	0.1829727	0.25993226	2.4316213	21	7 20.5	19.9
102960 1999 XV_{65}	16.2	X	33.87853	251.47762	223.63820	2.69860	0.1879513	0.23629909	2.5911627	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
102961 1999 XZ_{65}	16.4	X	289.85644	172.88160	208.25594	0.61879	0.1964958	0.26059687	2.4274852	21	7 13.1	19.3
102962 1999 XB_{66}	15.3	X	182.15314	1.80388	249.14815	9.93586	0.1236974	0.22817995	2.6522700	21	—	—
102963 1999 XU_{66}	16.2	X	312.34209	327.00588	81.80787	3.30326	0.1321476	0.26535366	2.3983874	21	10 17.4	18.4
102964 1999 XW_{66}	15.5	X	28.34194	328.75859	75.68509	5.75845	0.1913033	0.22938653	2.6429611	21	—	—
102965 1999 XH_{67}	17.0	X	281.90852	186.88708	222.35999	2.37801	0.1666322	0.26168672	2.4207406	21	8 15.3	19.7
102966 1999 XO_{67}	16.4	X	341.37062	321.69959	179.15322	2.38034	0.1068940	0.27890081	2.3200795	21	—	—
102967 1999 XF_{69}	15.9	X	48.90910	81.62452	78.88610	4.69434	0.1429611	0.24320808	2.5418547	21	4 8.9	18.4
102968 1999 XW_{69}	15.7	X	349.20282	339.31581	85.18257	4.07356	0.0959455	0.22583726	2.6705804	21	—	—
102969 1999 XB_{71}	15.6	X	57.72716	227.50272	226.61404	3.87384	0.2706033	0.23722047	2.5844488	21	1 29.1	17.4
102970 1999 XG_{71}	16.2	X	60.21788	9.57996	106.60745	4.60529	0.1512399	0.23978879	2.5659615	21	2 25.3	18.8
102971 1999 XP_{72}	14.8	X	25.04782	313.43202	81.10844	14.95795	0.1152143	0.22723128	2.6596468	21	—	—
102972 1999 XP_{74}	15.8	X	0.52266	81.41543	92.69013	9.66959	0.1046044	0.23868526	2.5738644	21	1 30.9	18.8
102973 1999 XT_{74}	15.7	X	80.64358	289.50168	95.82883	3.65932	0.1808009	0.23353732	2.6115510	21	—	—
102974 1999 XQ_{75}	15.5	X	44.73130	72.01729	96.01950	5.76995	0.1501640	0.24274654	2.5450756	21	4 13.7	18.1
102975 1999 XF_{76}	15.5	X	193.19089	303.73470	128.43605	2.08978	0.2100265	0.25223001	2.4808750	21	6 7.3	19.5
102976 1999 XG_{76}	15.8	X	92.94882	244.79654	231.58483	3.84671	0.0915481	0.28955742	2.2628004	21	3 31.4	18.3
102977 1999 XV_{76}	16.3	X	349.35853	288.28482	94.16428	4.25594	0.1524865	0.31256763	2.1503379	21	12 4.2	17.8
102978 1999 XD_{77}	15.7	X	123.87552	259.57496	92.83203	7.69645	0.1447505	0.28012798	2.3132987	21	—	—
102979 1999 XV_{77}	15.9	X	131.49287	131.58349	244.75759	3.72655	0.2143193	0.28470199	2.2884550	21	1 25.6	18.9
102980 1999 XA_{78}	16.3	X	7.59555	121.39781	250.20368	2.92342	0.1899842	0.26962057	2.3730162	21	12 14.8	18.5
102981 1999 XC_{78}	16.4	X	212.37101	265.07911	69.58312	7.27876	0.1948327	0.29141110	2.2531944	21	2 21.6	20.1
102982 1999 XR_{79}	16.1	X	346.25178	227.28740	134.50775	2.69997	0.1742379	0.26543128	2.3979198	21	10 15.6	17.9
102983 1999 XA_{80}	16.0	X	60.69575	242.79270	144.99784	0.94710	0.1136367	0.23119244	2.6291798	21	—	—
102984 1999 XJ_{81}	16.0	X	47.60884	73.95246	257.76295	4.99285	0.2017214	0.26927947	2.3750197	21	12 18.4	19.2
102985 1999 XZ_{81}	16.4	X	336.94316	266.53718	111.30001	3.18457	0.1513589	0.31026093	2.1609829	21	10 30.9	17.8
102986 1999 XD_{82}	16.3	X	248.86083	3.91830	255.92813	5.47688	0.1073771	0.28342738	2.2953109	21	—	—
102987 1999 XM_{87}	16.6	X	194.87836	335.22859	92.78850	6.26727	0.1387715	0.29732622	2.2232105	21	6 3.2	19.9
102988 1999 XC_{88}	14.9	X	0.12644	131.97097	254.94913	7.37075	0.2532107	0.22331578	2.6906453	21	12 19.1	17.5
102989 1999 XD_{88}	15.7	X	310.33759	220.06893	270.83808	12.28694	0.2013567	0.22574612	2.6712991	21	—	—
102990 1999 XF_{88}	16.5	X	184.19603	312.61487	93.37386	4.73820	0.1760861	0.29374779	2.2412294	21	4 26.2	19.9
102991 1999 XF_{90}	15.7	X	179.91810	116.22262	276.43262	6.11154	0.1082958	0.29043488	2.2582405	21	3 27.0	18.9
102992 1999 XP_{90}	15.5	X	231.74668	234.51857	270.51259	6.17480	0.1914521	0.26240692	2.4163093	21	10 14.6	19.0
102993 1999 XL_{91}	15.9	X	141.95679	12.83787	86.55175	5.28356	0.1388579	0.29246360	2.2477853	21	5 21.0	19.0
102994 1999 XG_{92}	15.7	X	349.52779	247.91377	236.96915	1.41815	0.1666124	0.27623066	2.3350067	21	—	—
102995 1999 XN_{92}	16.0	X	181.41817	295.89442	94.95250	7.31236	0.1088938	0.29092854	2.2556852	21	4 2.9	19.3
102996 1999 XV_{92}	15.1	X	127.47344	212.57731	168.57487	1.84185	0.2299491	0.23832113	2.5764854	21	2 7.2	18.7
102997 1999 XF_{94}	15.0	X	149.72232	276.19915	104.58429	22.96717	0.2983731	0.28658634	2.2784127	21	3 9.4	19.1
102998 1999 XJ_{94}	14.8	X	83.31664	273.05044	107.21665	13.90129	0.1855169	0.23016343	2.6370104	21	—	—
102999 1999 XP_{95}	15.2	X	83.31916	274.96799	154.67126	3.25828	0.2707137	0.19194590	2.9763465	21	2 27.9	18.8
103000 1999 XT_{95}	14.9	X	330.95046	36.45480	74.74976	12.55762	0.1523756	0.22670573	2.6637557	21	—	—
103001 1999 XW_{95}	14.7	X	292.81682	123.21493	279.12703	23.25182	0.3286092	0.21676410	2.7445921	21	7 19.8	18.4
103002 1999 XH_{98}	14.6	X	106.08122	314.25307	73.53550	10.03956	0.2274453	0.19189657	2.9768565	21	2 1.7	18.8
103003 1999 XN_{98}	15.6	X	83.80206	317.47805	54.18520	4.56106	0.1980917	0.27841660	2.3227687	21	—	—
103004 1999 XR_{98}	15.1	X	294.91048	358.82753	75.30904	6.53982	0.1216757	0.21926744	2.7236625	21	10 17.1	18.3
103005 1999 XN_{99}	16.0	X	290.13408	107.18825	279.54434	2.85071	0.1922744	0.30568800	2.1824809	21	7 23.6	18.2
103006 1999 XW_{99}	14.7	X	298.42109	350.40234	74.71809	10.16461	0.1603410	0.21869045	2.7284511	21	10 7.9	17.9
103007 1999 XD_{100}	15.3	X	219.71188	342.35062	86.70171	10.44949	0.1500435	0.20894599	2.8126349	21	6 30.2	19.7
103008 1999 XX_{100}	15.8	X	209.49852	306.13831	80.03603	6.05266	0.2072074	0.29517596	2.2339943	21	4 23.7	19.5
103009 1999 XW_{101}	14.8	X	328.43128	347.67326	65.76206	4.83590	0.2489252	0.22100268	2.7093869	21	11 11.2	16.9
103010 1999 XQ_{102}	16.1	X	160.76868	105.47062	292.93242	3.32337	0.1136521	0.28889171	2.2662753	21	3 15.7	19.3
103011 1999 XG_{103}	16.2	X	166.87877	87.88520	349.44141	1.49904	0.1686789	0.29388329	2.2405404	21	5 18.3	19.5
103012 1999 XT_{103}	15.1	X	15.56752	35.56035	24.02819	0.92554	0.1672651	0.18155445	3.0888593	21	—	—
103013 1999 XV_{103}	15.6	X	164.00813	211.04643	292.04733	3.69377	0.0591975	0.30008957	2.2095413	21	8 10.8	18.4
103014 1999 XD_{104}	14.7	X	17.33002	165.95982	291.21951	12.43665	0.2395095	0.23071035	2.6328412	21	—	—
103015 1999 XF_{104}	15.5	X	3.35285	18.69134	126.90218	4.30457	0.1098402	0.28127531	2.3070038	21	—	—
103016 1999 XH_{105}	15.6	X	312.05372	351.22604	31.28688	11.71143	0.1542947	0.22068822	2.7119600	21	9 3.1	18.8
103017 1999 XR_{105}	14.7	X	242.85652	261.81566	234.41456	12.29048	0.1478273	0.21915307	2.7246100	21	10 17.1	18.7
103018 1999 XW_{105}	15.9	X	67.58883	318.11487	114.34288	3.14369	0.1502294	0.28025350	2.3126080	21	—	—
103019 1999 XG_{106}	15.4	X	30.47389	222.37970	238.08355	1.75801	0.1670086	0.18756297	3.0225348	21	—	—
103020 1999 XP_{106}	15.5	X	157.77784	1.49843	28.94413	11.78192	0.1993041	0.24680366	2.5171069	21	3 20.4	19.5
103021 1999 XM_{109}	16.0	X	200.56300	347.91263	108.67656	4.01857	0.0842596	0.25778501	2.4451055	21	7 20.3	19.4
103022 1999 XU_{109}	15.1	X	92.59928	226.64630	175.71500	3.05250	0.1710527	0.23861063	2.5744010	21	1 10.2	17.9
103023 1999 XD_{110}	16.7	X	259.87891	219.39345	227.12912	1.77442	0.1464177	0.26350195	2.4096104	21	9 9.2	19.7
103024 1999 XG_{110}	15.9	X	41.17455	282.99931	75.05761	7.36813	0.1428042	0.27315401	2.3525074	21	—	—
103025 1999 XQ_{110}	15.7	X	275.10264	193.04898	262.81861	6.95406	0.1989964	0.22120231	2.7077565	21	9 27.4	19.3
103026 1999 XN_{111}	14.5	X	299.59242	7.96161	43.65407	13.86341	0.1742326	0.21480267	2.7612746	21	9 20.3	17.9
103027 1999 XS_{112}	13.4	X	176.59844	23.54896	351.49238	19.22169	0.1696480	0.15685388	3.4051732	21	3 19.3	18.9
103028 1999 XJ_{114}	14.7	X	97.12701	165.62475	297.70383	13.75665	0.1304175	0.24526400	2.5276301	21	3 24.6	18.3
103029 1999 XL_{114}	15.3	X	3.18598	48.67736	309.14840	11.48550	0.2062062	0.26911871	2.3759654	21	11 14.7	17.7
103030 1999 XH_{115}	15.3	X	38.09630	107.80611	6.19881	3.62523	0.1573000	0.19259213	2.9696848	21	1 24.7	18.6
103031 1999 XN_{115}	15.8	X	91.02929	30.84503	15.66222	3.56481	0.1184239	0.23798142	2.5789367	21	1 6.9	18.7
103032 1999 XJ_{116}	14.8	X	357.91264	53.31374	38.55653	14.13933	0.0711500	0.23232412	2.6206349	21	—	—
103033 1999 XP_{116}	15.5	X	54.76294	174.16693	286.79267	4.79925	0.2376803	0.23883680	2.5727755	21	1 28.7	17.3
103034 1999 XD_{117}	15.8	X	26.88250	318.06082	39.49504	7.49250	0.2181548	0.27213931	2.3583515	21	12 30.0	18.8
103035 1999 XY_{117}	16.5	X	140.79195	158.15919	290.28637	2.42144	0.1183517	0.29479653	2.2359108	21	4 30.2	19.4
103036 1999 XP_{118}	15.7	X	333.99156	25.92556	352.85991	2.14291	0.1986756	0.26684658	2.3894335	21	10 12.7	17.4
103037 1999 XK_{119}	15.2	X	88.48811	20.90783	27.16654	5.23398	0.0920942	0.23828917	2.5767157	21	1 1.5	18.3
103038 1999 XR_{119}	15.6	X	31.82357	123.82666	298.43581	4.64185	0.0394588	0.23265967	2.6181146	21	—	—
103039 1999 XB_{121}	15.7	X	62.37621	335.87466	44.71442	7.24353	0.1326874	0.27752886	2.3277193	21	—	—
103040 1999 XH_{121}	15.4	X	12.81597	81.69106	261.02793	8.54373	0.1037637	0.22115841	2.7081148	21	10 17.4	18.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
103041 1999 XN_{121}	15.1	X	357.76080	282.58873	49.90869	9.90374	0.2458289	0.21980944	2.7191834	21	9 26.5	17.4
103042 1999 XO_{122}	15.3	X	278.49328	50.09298	342.81033	5.90626	0.1165801	0.26115408	2.4240310	21	7 28.5	18.2
103043 1999 XP_{122}	15.7	X	335.18071	343.28895	8.22372	6.74888	0.1272576	0.26411071	2.4059063	21	9 4.4	17.8
103044 1999 XH_{123}	15.2	X	255.33890	4.01782	13.50356	8.58141	0.1343760	0.25685070	2.4510314	21	5 30.8	18.8
103045 1999 XH_{128}	16.6	X	239.40399	62.35515	333.83085	1.75177	0.1911388	0.25579165	2.4577921	21	6 3.2	20.5
103046 1999 XU_{128}	15.6	X	11.99339	116.27985	343.30648	13.89592	0.1044280	0.23434538	2.6055442	21	—	—
103047 1999 XV_{128}	14.8	X	346.81981	6.03743	41.47529	12.42796	0.1365248	0.22459301	2.6804347	21	12 6.6	17.8
103048 1999 XW_{128}	15.5	X	160.95336	106.16298	36.13106	8.69537	0.1608180	0.30124451	2.2038902	21	8 12.6	19.0
103049 1999 XF_{129}	16.3	X	59.37838	27.28249	19.75636	6.21532	0.2729129	0.23427651	2.6060549	21	—	—
103050 1999 XV_{129}	15.0	X	10.84054	340.27841	38.88895	13.25471	0.1765961	0.22464879	2.6799910	21	12 14.5	18.2
103051 1999 XD_{130}	16.5	X	197.36067	132.52493	297.60573	6.94419	0.0536612	0.29859303	2.2169179	21	6 9.7	19.3
103052 1999 XT_{131}	15.3	X	229.46049	89.94289	59.16857	9.93076	0.1366424	0.21699417	2.7426518	21	10 24.3	19.3
103053 1999 XH_{134}	15.6	X	114.25401	356.39502	357.61674	9.09085	0.2810477	0.27915792	2.3186547	21	—	—
103054 1999 XL_{134}	15.0	X	330.67091	169.58081	325.75290	11.35243	0.1304788	0.22798267	2.6537998	21	—	—
103055 1999 XR_{134}	14.8	X	333.55413	254.61596	238.41089	20.73086	0.0971600	0.23065015	2.6332993	21	—	—
103056 1999 XX_{134}	14.7	X	4.05946	229.86685	295.20316	30.36111	0.2804634	0.23190256	2.6238099	21	1 3.7	17.4
103057 1999 XN_{135}	16.5	X	306.34171	182.74041	177.38682	3.29593	0.1791179	0.30533092	2.1841822	21	7 12.5	18.5
103058 1999 XQ_{135}	15.9	X	182.14766	145.27641	215.19046	4.30303	0.2494152	0.29004523	2.2602626	21	2 25.4	19.6
103059 1999 XV_{136}	15.8	X	18.99957	313.65552	99.09451	10.24973	0.1907745	0.27494134	2.3423009	21	—	—
103060 1999 XD_{137}	15.0	X	76.11099	316.11419	91.71684	25.05469	0.1939670	0.28231020	2.3013623	21	—	—
103061 1999 XZ_{138}	16.0	X	42.34754	315.68981	72.65833	2.49481	0.0674164	0.31700657	2.1302171	21	—	—
103062 1999 XU_{139}	16.0	X	8.68721	20.69412	107.41639	5.51503	0.1694305	0.23209514	2.6223582	21	—	—
103063 1999 XL_{140}	16.0	X	223.23728	234.76099	111.51660	3.47686	0.1077139	0.24322990	2.5417027	21	3 22.9	19.8
103064 1999 XF_{141}	16.8	X	214.33366	245.21559	55.66103	3.27498	0.0756947	0.29005384	2.2602179	21	1 6.1	19.7
103065 1999 XH_{141}	15.9	X	212.27889	161.02994	269.04397	2.37833	0.0783310	0.29783816	2.2206621	21	6 27.8	18.6
103066 1999 XO_{141}	17.8	X	143.79399	192.49570	111.29220	2.93721	0.1744593	0.45651387	1.6704497	21	—	—
103067 1999 XA_{143}	16.8	X	176.83068	104.00831	116.62792	38.54743	0.5816189	0.39384696	1.8432506	21	12 3.8	21.3
103068 1999 XD_{145}	16.6	X	54.73862	315.28005	231.07944	2.80973	0.0976258	0.25113214	2.4881001	21	5 18.6	19.2
103069 1999 XN_{145}	16.3	X	89.86244	5.20460	226.50593	5.37988	0.0685705	0.26183490	2.4198272	21	9 6.3	19.5
103070 1999 XC_{148}	16.2	X	326.23373	103.19127	229.88798	2.10438	0.1660480	0.26064928	2.4271597	21	7 10.7	18.4
103071 1999 XU_{150}	16.7	X	302.82695	174.10934	246.18246	6.55219	0.0949642	0.26621746	2.3931965	21	10 16.6	19.3
103072 1999 XJ_{151}	15.8	X	259.00398	83.33302	25.28269	7.75016	0.3395631	0.21638043	2.7478355	21	9 10.2	20.0
103073 1999 XO_{151}	16.0	X	331.83255	220.16096	305.52271	2.95234	0.1556948	0.23090280	2.6313780	21	—	—
103074 1999 XZ_{151}	15.9	X	231.93511	37.00567	306.43411	3.51724	0.1679727	0.29094640	2.2555929	21	3 17.4	19.3
103075 1999 XC_{152}	15.9	X	160.30055	96.75408	59.28742	8.55501	0.1581579	0.21210098	2.7846734	21	8 26.4	20.5
103076 1999 XM_{152}	13.9	X	271.39394	47.93993	44.01602	14.51867	0.2669277	0.17475018	3.1685285	21	9 14.2	18.6
103077 1999 XA_{153}	16.0	X	324.95002	10.26399	165.83342	5.17542	0.1362731	0.27978002	2.3152163	21	—	—
103078 1999 XX_{153}	15.9	X	97.98229	300.04947	157.65311	7.22293	0.1677986	0.24364161	2.5388385	21	4 3.9	19.1
103079 1999 XS_{157}	15.9	X	15.37172	196.46522	226.21867	4.09179	0.1685295	0.22856145	2.6493178	21	—	—
103080 1999 XG_{158}	16.3	X	249.35474	238.57522	192.36613	2.94795	0.1561578	0.25966386	2.4332966	21	8 3.1	19.8
103081 1999 XQ_{158}	17.1	X	179.61970	283.01121	148.25248	2.79965	0.1475708	0.29628331	2.2284245	21	5 23.2	20.4
103082 1999 XO_{159}	14.6	X	125.66964	134.91169	257.14609	13.97625	0.1120623	0.23845923	2.5754906	21	1 29.1	18.3
103083 1999 XY_{159}	15.1	X	305.83669	107.23621	243.40253	5.25462	0.1524039	0.25677364	2.4515218	21	7 1.2	17.8
103084 1999 XO_{160}	16.2	X	312.56053	325.74138	170.41795	2.85885	0.1175447	0.27260505	2.3556646	21	—	—
103085 1999 XB_{161}	15.5	X	259.91989	8.16479	38.34217	9.53629	0.2377441	0.21390743	2.7689735	21	7 4.0	19.9
103086 1999 XZ_{161}	14.7	X	339.44784	17.49850	30.83109	12.34606	0.1809225	0.22342846	2.6897406	21	11 25.5	17.4
103087 1999 XW_{162}	16.3	X	339.13364	31.79732	121.17833	2.97168	0.1591261	0.27676839	2.3319813	21	—	—
103088 1999 XD_{163}	15.6	X	299.78275	69.33025	255.03542	1.31562	0.0603490	0.20328098	2.8646499	21	6 1.3	19.4
103089 1999 XL_{163}	15.9	X	113.58831	36.07046	287.39914	1.03486	0.0851239	0.22556389	2.6727377	21	—	—
103090 1999 XO_{163}	15.5	X	12.22622	337.67799	100.48104	2.81611	0.1889182	0.22809471	2.6529307	21	—	—
103091 1999 XJ_{164}	14.6	X	294.83131	282.44082	295.68417	22.17600	0.2530943	0.27604196	2.3360707	21	—	—
103092 1999 XU_{164}	15.5	X	221.84778	202.56758	309.17996	7.99942	0.2074075	0.26036080	2.4289523	21	10 9.2	19.4
103093 1999 XD_{166}	14.7	X	351.45689	63.29476	27.91789	12.40754	0.1810086	0.23050364	2.6344150	21	—	—
103094 1999 XA_{167}	14.5	X	356.59008	52.59325	49.34766	11.75916	0.2014981	0.23111233	2.6297874	21	—	—
103095 1999 XH_{167}	15.6	X	99.49610	1.28854	17.35896	5.74255	0.2730756	0.23701688	2.5859286	21	1 7.6	18.6
103096 1999 XM_{167}	15.5	X	273.69302	342.34717	45.25355	5.68471	0.1888687	0.25935003	2.4352591	21	6 30.9	18.8
103097 1999 XJ_{168}	15.6	X	85.61413	42.45822	359.87767	3.38020	0.2248414	0.23757204	2.5818985	21	1 8.2	18.1
103098 1999 XA_{173}	16.0	X	235.83616	83.02878	15.17408	3.06836	0.1334269	0.30396801	2.1907062	21	9 1.2	18.8
103099 1999 XL_{173}	15.7	X	207.50026	53.65956	343.03804	4.66955	0.1292630	0.29431736	2.2383369	21	5 2.7	19.1
103100 1999 XU_{173}	14.8	X	280.18538	7.63252	89.62510	18.41739	0.2041329	0.21796359	2.7345136	21	10 20.1	18.5
103101 1999 XD_{174}	16.4	X	156.33062	76.34910	17.07428	5.14326	0.1521985	0.29363631	2.2417966	21	5 27.7	19.6
103102 1999 XF_{174}	16.1	X	339.30650	104.48370	73.55049	7.69798	0.1065524	0.27950700	2.3167238	21	—	—
103103 1999 XM_{174}	14.7	X	302.69922	93.04576	91.12356	13.53466	0.1850673	0.22847218	2.6500079	21	—	—
103104 1999 XW_{174}	14.8	X	354.35754	81.82577	87.52967	13.74118	0.1534104	0.23375963	2.6098951	21	1 7.9	17.7
103105 1999 XB_{175}	15.4	X	110.17044	48.06459	42.90818	6.50737	0.0915137	0.28710592	2.2756630	21	3 25.1	18.1
103106 1999 XT_{176}	14.9	X	284.23355	355.02711	67.76928	10.76671	0.2133546	0.21452455	2.7636606	21	9 2.8	18.6
103107 1999 XE_{177}	14.9	X	245.70007	345.82107	84.62171	11.23319	0.1658467	0.25569319	2.4584230	21	7 30.6	18.5
103108 1999 XF_{177}	14.6	X	354.96715	26.97088	54.11795	7.07785	0.2137909	0.22560801	2.6723891	21	—	—
103109 1999 XN_{177}	15.2	X	95.72524	120.25667	37.51331	4.81921	0.0956305	0.24707273	2.5152791	21	6 8.3	18.4
103110 1999 XP_{177}	16.0	X	79.34233	14.00548	53.33409	4.18834	0.2087870	0.23613510	2.5923623	21	1 30.7	18.6
103111 1999 XY_{177}	16.0	X	142.68222	70.26766	16.56515	2.87441	0.0957087	0.29108849	2.2548588	21	4 28.4	18.8
103112 1999 XA_{178}	15.4	X	254.91350	165.30177	309.18048	7.57996	0.1189936	0.21659533	2.7460177	21	10 6.1	19.3
103113 1999 XD_{178}	15.2	X	15.10858	141.61576	297.41727	21.32027	0.0475658	0.22797705	2.6538434	21	—	—
103114 1999 XH_{178}	15.5	X	61.23185	44.34264	69.48772	7.52245	0.0878343	0.28342844	2.2953052	21	2 8.2	17.9
103115 1999 XN_{180}	15.0	X	329.45842	62.16870	46.65913	10.04875	0.1939307	0.22370325	2.6875374	21	—	—
103116 1999 XD_{181}	14.9	X	139.73157	298.21496	31.48929	13.58841	0.2224124	0.23719329	2.5846463	21	—	—
103117 1999 XY_{181}	15.0	X	246.33324	58.55546	44.70323	16.07243	0.2429715	0.21613716	2.7498969	21	9 8.3	19.5
103118 1999 XY_{182}	15.0	X	260.24703	16.50371	24.44482	10.29390	0.1985272	0.21316493	2.7753998	21	7 2.1	19.3
103119 1999 XR_{184}	15.0	X	284.95176	33.85591	47.20748	8.91693	0.1727234	0.21904740	2.7254862	21	10 3.8	18.3
103120 1999 XN_{185}	15.1	X	29.32855	48.59190	40.88279	12.91575	0.1607339	0.23367877	2.6104971	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
103121 1999 XP_{188}	14.6	X	327.98864	145.03401	286.34561	11.84430	0.1541594	0.22386449	2.6862468	21	12 7.2	17.4
103122 1999 XA_{189}	15.5	X	336.26817	176.22672	301.49584	11.69992	0.2135491	0.22889834	2.6467177	21	—	—
103123 1999 XG_{189}	15.0	X	240.64189	58.82730	359.99942	7.11690	0.2230415	0.21173078	2.7879183	21	7 2.4	19.6
103124 1999 XD_{190}	15.2	X	266.98186	165.19308	304.35994	10.32090	0.1211245	0.21954076	2.7214014	21	10 14.2	19.0
103125 1999 XQ_{191}	15.2	X	57.32586	118.73713	2.61954	5.88612	0.1031134	0.28539168	2.2847666	21	2 11.9	17.3
103126 1999 XX_{191}	16.0	X	201.57119	34.63545	35.15779	5.39554	0.2252573	0.25307063	2.4753781	21	6 10.3	20.2
103127 1999 XR_{194}	15.3	X	315.72660	46.96122	319.34441	6.17466	0.1587765	0.26024199	2.4296915	21	8 12.8	17.7
103128 1999 XZ_{195}	16.3	X	123.74224	173.42922	315.50800	6.57862	0.0344887	0.29467226	2.2365394	21	5 24.0	19.1
103129 1999 XA_{196}	15.8	X	69.76816	58.97198	37.48305	5.28210	0.1110311	0.28377689	2.2934258	21	1 29.5	18.0
103130 1999 XR_{196}	14.6	X	288.15923	315.26806	291.19318	28.54694	0.1391886	0.23784079	2.5799532	21	1 19.1	18.4
103131 1999 XK_{197}	15.9	X	292.93691	96.68890	335.65987	8.34415	0.0743298	0.30930365	2.1654393	21	10 25.9	18.1
103132 1999 XY_{198}	15.7	X	273.63827	49.19295	323.55481	5.80723	0.1510538	0.25669150	2.4520447	21	6 15.5	18.9
103133 1999 XX_{199}	15.5	X	299.49312	25.85713	29.97944	5.75376	0.0689751	0.21769360	2.7367740	21	10 3.8	18.8
103134 1999 XE_{202}	15.5	X	329.17637	139.96211	9.37303	6.94634	0.0450602	0.27760935	2.3272694	21	—	—
103135 1999 XL_{202}	15.8	X	63.81956	75.79292	34.57155	6.92696	0.0571657	0.28412815	2.2915352	21	2 5.3	18.3
103136 1999 XF_{203}	14.9	X	286.47514	359.80015	36.82000	9.14983	0.3149318	0.21520292	2.7578498	21	7 11.5	18.8
103137 1999 XN_{203}	16.3	X	186.08460	73.24675	327.60402	6.57066	0.1074168	0.29210547	2.2496222	21	4 13.9	19.7
103138 1999 XP_{204}	15.9	X	17.55495	104.70269	17.13303	8.22095	0.1438844	0.27886801	2.3202614	21	—	—
103139 1999 XS_{205}	15.3	X	262.12078	18.46362	38.20542	7.61242	0.2496076	0.21247557	2.7813996	21	7 19.1	19.6
103140 1999 XB_{206}	15.3	X	331.65182	59.62458	343.84168	8.98217	0.2189775	0.21962875	2.7206745	21	10 29.7	17.8
103141 1999 XF_{206}	15.0	X	233.40916	50.50422	28.59342	8.75335	0.1838788	0.20994384	2.8037156	21	7 26.5	19.5
103142 1999 XM_{207}	14.5	X	146.21683	258.71350	62.56522	13.14442	0.2029321	0.23036773	2.6354511	21	—	—
103143 1999 XY_{208}	15.2	X	33.99122	140.21906	328.86222	9.35262	0.1765776	0.23544287	2.5974410	21	—	—
103144 1999 XY_{209}	14.4	X	262.29516	59.96893	41.55282	12.55780	0.0574613	0.21772240	2.7365327	21	10 15.4	18.0
103145 1999 XQ_{210}	15.0	X	231.10993	75.03790	352.09187	10.51343	0.0680252	0.20962213	2.8065835	21	7 20.5	19.2
103146 1999 XS_{210}	15.3	X	208.16188	144.56957	13.24124	10.07182	0.1464240	0.21615019	2.7497865	21	10 8.6	19.5
103147 1999 XU_{212}	15.4	X	34.69212	229.40212	215.29627	7.64140	0.2222849	0.23435772	2.6054528	21	—	—
103148 1999 XQ_{213}	16.1	X	6.35693	185.83804	194.36373	4.23920	0.1608140	0.26942851	2.3741438	21	12 20.1	18.6
103149 1999 XC_{215}	15.1	X	296.81926	284.67111	131.05114	6.35401	0.0842529	0.21572879	2.7533662	21	9 29.0	18.5
103150 1999 XP_{215}	15.1	X	68.46394	167.50743	250.32453	12.02306	0.1950766	0.23361482	2.6109734	21	—	—
103151 1999 XR_{217}	15.9	X	201.04687	177.17263	100.89655	4.79558	0.1633275	0.22950375	2.6420611	21	—	—
103152 1999 XR_{220}	15.6	X	119.38895	253.89849	125.40941	5.00238	0.2893991	0.24070796	2.5594250	21	2 4.1	19.2
103153 1999 XT_{220}	16.4	X	145.65993	259.82189	102.73957	6.99782	0.1486599	0.28712777	2.2755476	21	1 16.2	19.1
103154 1999 XZ_{221}	15.5	X	356.30281	42.58377	47.92348	14.27706	0.1502569	0.23009615	2.6375244	21	—	—
103155 1999 XN_{222}	15.5	X	136.18750	122.90403	332.16784	3.46522	0.0924260	0.24664898	2.5181591	21	5 3.9	19.1
103156 1999 XT_{222}	15.7	X	259.42465	87.64432	358.36701	5.10818	0.0859074	0.21485053	2.7608645	21	9 14.1	19.2
103157 1999 XU_{223}	15.4	X	18.84040	165.04600	282.14720	8.53074	0.1408271	0.22963928	2.6410215	21	—	—
103158 1999 XB_{224}	16.4	X	19.55345	223.68841	357.39834	0.60342	0.0804686	0.24474758	2.5311843	21	5 7.9	19.0
103159 1999 XP_{224}	15.4	X	241.71231	275.49689	97.62620	3.05412	0.0826121	0.20325399	2.8649035	21	5 19.9	19.5
103160 1999 XW_{224}	15.8	X	239.53131	304.52160	323.98667	1.25585	0.1056145	0.23332247	2.6131540	21	1 2.7	19.8
103161 1999 XF_{225}	16.5	X	153.09551	239.91789	100.33088	7.52337	0.2781421	0.28151457	2.3056964	21	1 12.3	19.9
103162 1999 XZ_{225}	16.2	X	311.16379	12.36701	294.73252	7.54579	0.1535267	0.29448997	2.2374622	21	4 29.4	18.8
103163 1999 XR_{226}	15.8	X	359.24875	160.09383	98.42817	9.52166	0.0658180	0.24740246	2.5130437	21	5 30.1	18.7
103164 1999 XX_{226}	15.7	X	76.41020	55.37820	94.69820	5.68692	0.0867578	0.28938581	2.2636949	21	4 27.7	18.1
103165 1999 XN_{227}	16.0	X	53.80523	249.53048	110.69537	3.70988	0.2580150	0.27197677	2.3592910	21	—	—
103166 1999 XT_{227}	16.4	X	156.63351	106.03191	260.36667	0.83219	0.1872730	0.23854002	2.5749090	21	2 13.6	20.5
103167 1999 XS_{228}	16.0	X	298.86712	86.21026	298.82150	4.38025	0.1661867	0.30485084	2.1864747	21	8 10.7	17.9
103168 1999 XW_{228}	17.0	X	279.01392	84.50801	303.58933	3.65805	0.1517030	0.30241854	2.1981826	21	7 15.6	19.1
103169 1999 XR_{229}	15.5	X	67.92382	31.96081	27.72540	13.87162	0.1410281	0.23703867	2.5857701	21	—	—
103170 1999 XL_{230}	15.0	X	67.69618	22.84436	35.06979	14.64541	0.1584125	0.23743229	2.5829115	21	—	—
103171 1999 XC_{231}	14.5	X	338.71797	189.14733	47.45808	15.01828	0.1958779	0.23727916	2.5840227	21	3 16.9	17.7
103172 1999 XL_{231}	14.8	X	274.92641	356.93081	77.29110	10.48552	0.2297011	0.21471730	2.7620065	21	9 1.9	18.7
103173 1999 XS_{233}	16.0	X	100.66944	196.78444	137.85301	4.54758	0.2830849	0.27993822	2.3143440	21	—	—
103174 1999 XK_{234}	15.6	X	4.68428	227.90780	207.25734	13.16249	0.1327302	0.23044102	2.6348923	21	—	—
103175 1999 XS_{234}	15.3	X	52.93962	284.49777	149.87487	4.99642	0.1102543	0.23544746	2.5974072	21	—	—
103176 1999 XT_{234}	16.0	X	5.03842	218.24835	149.95986	5.38140	0.2291134	0.26962417	2.3729951	21	12 12.6	18.2
103177 1999 XU_{234}	15.6	X	91.88813	192.50642	204.48526	6.77060	0.1467970	0.23719352	2.5846446	21	—	—
103178 1999 XL_{235}	17.3	X	342.39174	276.69598	68.76791	6.11198	0.2074767	0.30932628	2.1653337	21	9 21.6	18.4
103179 1999 XO_{236}	14.6	X	107.79936	60.21954	327.59534	8.74363	0.0869852	0.19281800	2.9673652	21	1 13.7	18.7
103180 1999 XF_{237}	15.7	X	60.82595	160.24324	59.34905	5.03826	0.1448531	0.29851192	2.2173194	21	7 27.5	18.0
103181 1999 XR_{237}	16.3	X	350.72388	312.47590	57.09707	7.28407	0.1678849	0.26670016	2.3903080	21	11 6.1	18.2
103182 1999 XJ_{238}	14.8	X	301.89262	337.73648	275.61125	13.19383	0.1494406	0.23905094	2.5712388	21	2 8.3	18.6
103183 1999 XA_{239}	16.1	X	46.09182	163.78548	325.73433	1.48458	0.0877877	0.24112671	2.5564610	21	2 12.3	19.0
103184 1999 XG_{239}	14.6	X	306.44623	170.75314	69.40791	14.95671	0.1317177	0.24504314	2.5291486	21	2 8.5	18.3
103185 1999 XD_{242}	15.8	X	301.79683	193.81817	321.52556	4.56235	0.1893748	0.27535399	2.3399602	21	—	—
103186 1999 XH_{242}	14.7	X	261.68526	51.79360	44.05541	9.84477	0.0796509	0.21502634	2.7593594	21	10 4.2	18.4
103187 1999 XS_{242}	14.9	X	146.60122	11.22648	47.94249	15.18228	0.0970141	0.24257496	2.5462756	21	4 7.2	18.7
103188 1999 XT_{242}	14.3	X	287.95684	40.82962	19.24581	13.93465	0.1675425	0.21516587	2.7581664	21	9 11.9	17.8
103189 1999 XV_{242}	14.4	X	91.86451	39.65916	30.60846	13.58936	0.1392890	0.23701762	2.5859232	21	2 18.9	17.8
103190 1999 XD_{243}	15.1	X	341.66617	298.49161	94.57860	13.19289	0.1771740	0.22559087	2.6725246	21	11 15.8	17.8
103191 1999 XE_{243}	14.9	X	216.30401	97.24571	357.92881	12.62805	0.1755341	0.20905425	2.8116638	21	8 1.5	19.6
103192 1999 XF_{243}	15.6	X	284.03772	73.80035	324.89186	8.02427	0.1356452	0.26211783	2.4180856	21	8 10.3	18.4
103193 1999 XG_{243}	14.7	X	47.74765	117.35199	280.25027	13.24023	0.1677672	0.23243282	2.6198177	21	—	—
103194 1999 XX_{243}	15.4	X	301.37464	232.25968	315.85393	23.43043	0.2388030	0.27499561	2.3419927	21	—	—
103195 1999 XZ_{243}	15.0	X	102.93703	20.39054	15.47524	15.05065	0.1723355	0.23575710	2.5951324	21	1 24.1	18.5
103196 1999 XA_{244}	14.4	X	349.65308	45.65366	57.47903	22.77241	0.0448620	0.22739937	2.6583360	21	—	—
103197 1999 XZ_{247}	15.5	X	172.61931	32.86272	128.71222	5.82437	0.2621845	0.21192973	2.7861733	21	9 9.8	20.5
103198 1999 XT_{248}	16.1	X	346.76675	259.00687	224.81956	6.25772	0.1502374	0.27696233	2.3308925	21	—	—
103199 1999 XE_{249}	15.2	X	9.97765	187.21351	216.33824	6.81833	0.2047642	0.22650785	2.6653068	21	—	—
103200 1999 XL_{249}	16.0	X	123.98570	288.34765	150.88728	6.43652	0.1307545	0.24502821	2.5292514	21	4 7.0	19.5

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
103201 1999 XB_{250}	15.2	X	191.04895	239.73441	247.97583	6.78274	0.1766611	0.20858785	2.8158534	21	8 11.7	20.0
103202 1999 XW_{250}	16.0	X	151.66160	297.42815	301.21980	2.31228	0.1405563	0.21764518	2.7371800	21	11 22.3	20.3
103203 1999 XM_{251}	17.0	X	178.86609	245.90828	92.40915	2.96906	0.2262607	0.28896896	2.2658714	21	1 27.5	20.4
103204 1999 XN_{251}	16.8	X	11.83373	291.69782	228.81836	5.44868	0.0468149	0.28703145	2.2760566	21	1 20.5	19.4
103205 1999 XJ_{252}	15.0	X	316.38415	62.58144	108.43768	2.30321	0.1607305	0.18368796	3.0648950	21	—	—
103206 1999 XN_{252}	16.4	X	26.44044	178.92822	98.67669	3.12813	0.1543542	0.26021815	2.4298399	21	8 24.4	18.7
103207 1999 XA_{253}	16.1	X	1.55561	194.41797	80.62314	5.98739	0.0674900	0.25582658	2.4575684	21	6 25.7	18.6
103208 1999 XN_{254}	16.2	X	227.48243	299.26531	286.91668	2.92561	0.1959228	0.27017969	2.3697412	21	—	—
103209 1999 XX_{256}	15.2	X	163.68937	254.05216	43.57140	12.26561	0.1204923	0.23370986	2.6102656	21	—	—
103210 1999 XK_{257}	15.3	X	61.25136	129.54418	279.38620	4.09772	0.0645310	0.23252064	2.6191581	21	—	—
103211 1999 XA_{258}	15.4	X	53.46557	309.74089	109.94200	6.50415	0.0655239	0.23030444	2.6359339	21	—	—
103212 1999 XV_{258}	15.8	X	219.58278	63.35538	92.58646	5.97241	0.1005757	0.22062700	2.7124617	21	10 26.2	19.7
103213 1999 XL_{259}	14.4	X	22.95834	145.87367	54.04124	23.96501	0.1357963	0.28860293	2.2677868	21	4 18.0	16.7
103214 1999 XG_{260}	15.9	X	289.81064	254.83661	176.71904	1.42412	0.0557969	0.22027585	2.7153436	21	10 11.7	19.4
103215 1999 XZ_{260}	16.7	X	246.59974	85.91450	257.37356	3.18038	0.1374224	0.29545586	2.2325832	21	4 2.1	19.9
103216 1999 XT_{261}	14.1	X	114.75337	36.44735	7.37337	17.01504	0.2033774	0.23946353	2.5682845	21	2 24.5	17.7
103217 1999 YK_{1}	14.9	X	73.45211	330.25055	56.65633	27.15211	0.2318174	0.27778800	2.3262715	21	—	—
103218 1999 YV_{2}	16.4	X	159.08264	301.03262	79.73228	2.30923	0.0915501	0.28524023	2.2855753	21	2 19.2	19.3
103219 1999 YX_{3}	15.0	X	8.32520	80.05486	4.83672	21.49439	0.1433938	0.22945245	2.6424549	21	—	—
103220 Kwongchuikuen	15.2	X	329.92774	162.92773	305.22525	9.88713	0.1902578	0.22531672	2.6746920	21	—	—
103221 1999 YC_{5}	15.1	X	64.95589	205.37944	128.72441	15.63935	0.0297860	0.21938581	2.7226827	21	12 11.6	19.1
103222 1999 YD_{5}	16.4	X	284.94014	235.74119	149.29016	3.40244	0.1313188	0.30146064	2.2028367	21	7 23.3	18.8
103223 1999 YT_{6}	15.0	X	93.51038	83.68043	357.26342	10.95565	0.0975813	0.23935549	2.5690573	21	2 24.4	18.2
103224 1999 YP_{8}	15.2	X	100.43826	342.44740	94.08455	3.11359	0.0731753	0.19224509	2.9732576	21	3 3.3	19.3
103225 1999 YQ_{8}	16.3	X	52.12011	272.91960	75.51922	1.50973	0.1871864	0.26837430	2.3803570	21	—	—
103226 1999 YH_{9}	16.3	X	17.42931	50.78194	115.15956	22.53306	0.0534557	0.37465972	1.9056569	21	1 14.8	17.8
103227 1999 YR_{10}	16.2	X	129.45303	154.11923	175.11163	2.72101	0.1644543	0.23473841	2.6026351	21	—	—
103228 1999 YT_{13}	15.9	X	104.80329	219.43961	315.31253	3.41025	0.0418200	0.29510682	2.2343432	21	7 7.2	18.4
103229 1999 YA_{14}	16.7	X	285.32149	317.99829	180.49516	0.18487	0.1107366	0.27081475	2.3660350	21	—	—
103230 1999 YE_{15}	16.2	X	231.56859	346.90690	108.52081	3.09050	0.1907070	0.25980428	2.4324197	21	8 13.6	19.9
103231 1999 YM_{15}	17.1	X	58.87764	49.41358	226.09057	4.38639	0.0653910	0.30828384	2.1702123	21	10 1.3	19.6
103232 1999 YU_{16}	14.9	X	256.40333	282.77531	296.54759	10.86908	0.2151976	0.22649714	2.6653908	21	—	—
103233 1999 YM_{17}	16.8	X	49.60484	326.26701	130.31954	2.44389	0.1583350	0.27928682	2.3179412	21	—	—
103234 1999 YY_{19}	16.2	X	168.10502	180.00643	111.33054	6.27568	0.1672862	0.27218121	2.3581094	21	—	—
103235 1999 YM_{22}	15.3	X	257.42093	132.82491	28.15376	11.08839	0.1567080	0.22122294	2.7075882	21	12 5.3	18.9
103236 1999 YV_{24}	16.4	X	100.77386	275.74589	90.48355	7.59821	0.1726166	0.28119747	2.3074295	21	—	—
103237 1999 YO_{26}	14.3	X	176.77096	353.40884	14.31525	15.12896	0.1148380	0.24100957	2.5572893	21	3 6.7	18.3
103238 1999 YA_{28}	15.2	X	121.25686	25.21440	3.18650	14.80500	0.0979317	0.23784363	2.5799327	21	1 27.5	18.9
103239 2000 AS	16.0	X	43.08653	260.12634	168.09456	1.03755	0.0397196	0.22801530	2.6535466	21	—	—
103240 2000 AC_{1}	15.4	X	347.69287	279.61142	150.21097	1.45920	0.2446417	0.17825849	3.1268177	21	—	—
103241 2000 AK_{2}	14.6	X	313.05919	80.67815	332.88237	9.28379	0.3218427	0.21865274	2.7287648	21	9 16.3	16.8
103242 2000 AL_{3}	15.4	X	116.60924	60.63760	65.44262	7.54471	0.0418025	0.29347017	2.2426427	21	5 13.3	18.0
103243 2000 AV_{3}	14.5	X	101.12618	79.31755	284.20344	22.07318	0.3378804	0.23841833	2.5757851	21	—	—
103244 2000 AK_{4}	16.5	X	39.32095	306.71558	123.89322	7.11011	0.0771642	0.27455878	2.3444762	21	—	—
103245 2000 AN_{4}	15.3	X	290.92365	305.52599	138.71730	15.30273	0.2132734	0.21581695	2.7526163	21	10 13.1	18.7
103246 2000 AQ_{4}	15.6	X	325.78156	266.92443	191.71670	3.77814	0.1271218	0.22410957	2.6842881	21	—	—
103247 2000 AS_{4}	15.7	X	278.60347	84.47475	312.39923	4.00143	0.1553420	0.30199982	2.2002140	21	7 27.9	17.9
103248 2000 AZ_{4}	16.1	X	93.46817	121.65772	297.82230	6.99381	0.0754709	0.28079127	2.3096543	21	1 10.7	18.5
103249 2000 AA_{5}	15.3	X	1.04053	116.81600	318.07566	5.25883	0.1779335	0.22597374	2.6695049	21	—	—
103250 2000 AY_{6}	14.8	X	340.14149	95.24445	64.99644	12.31028	0.2264380	0.23273370	2.6175593	21	—	—
103251 2000 AN_{7}	15.8	X	35.84942	119.89983	55.29450	6.99404	0.0225128	0.28981483	2.2614604	21	3 25.2	18.4
103252 2000 AG_{9}	16.0	X	169.12963	111.78299	308.47945	5.41123	0.1762726	0.29354537	2.2422596	21	4 26.1	19.4
103253 2000 AC_{13}	15.5	X	288.34897	2.41821	42.03360	4.58294	0.0943623	0.21530307	2.7569945	21	8 30.2	19.0
103254 2000 AX_{13}	16.1	X	200.31346	84.89497	48.65570	4.00547	0.0767790	0.30509522	2.1853070	21	9 14.7	18.8
103255 2000 AD_{14}	14.5	X	240.63143	193.66698	81.35569	14.55785	0.1255296	0.23796336	2.5790672	21	1 10.4	18.6
103256 2000 AY_{14}	15.1	X	127.90650	255.48369	304.61553	1.77957	0.1970477	0.25661110	2.4525569	21	9 20.1	19.1
103257 2000 AG_{19}	16.0	X	46.33195	317.94905	38.91185	3.96485	0.2541677	0.27315927	2.3524772	21	—	—
103258 2000 AH_{20}	15.8	X	84.85842	290.03348	67.54681	5.02962	0.1491417	0.27596682	2.3364947	21	—	—
103259 2000 AZ_{20}	15.3	X	283.11899	30.12614	69.27769	6.02780	0.1265118	0.22002793	2.7173830	21	10 30.9	18.6
103260 2000 AF_{22}	14.5	X	6.29261	279.11925	81.60057	11.15123	0.1078979	0.17397195	3.1779707	21	10 30.7	18.6
103261 2000 AJ_{23}	16.0	X	56.74044	353.25141	97.27542	4.84139	0.1181966	0.23531348	2.5983930	21	1 10.6	18.7
103262 2000 AM_{24}	14.9	X	326.32025	241.96946	284.21719	13.92357	0.1250495	0.23143146	2.6273693	21	—	—
103263 2000 AB_{25}	14.6	X	342.12614	230.18556	282.25757	8.12139	0.0964886	0.18636070	3.0355204	21	—	—
103264 2000 AQ_{25}	15.5	X	25.56567	53.49180	30.63331	3.75051	0.1361358	0.23066215	2.6332080	21	—	—
103265 2000 AY_{25}	16.4	X	85.28738	196.47327	296.06288	4.07947	0.1192929	0.28891165	2.2661710	21	4 16.1	18.8
103266 2000 AT_{26}	14.5	X	359.60302	182.41116	288.78955	10.65740	0.0326688	0.18406057	3.0607571	21	—	—
103267 2000 AK_{27}	15.1	X	315.00342	313.27200	64.35268	6.05782	0.1719794	0.21475418	2.7616902	21	8 26.3	18.1
103268 2000 AV_{27}	15.1	X	210.19431	204.21540	310.80058	6.92558	0.2337089	0.21441929	2.7645650	21	9 27.3	19.8
103269 2000 AG_{28}	15.9	X	73.80068	24.54842	103.36214	4.83080	0.1425429	0.28662746	2.2781948	21	3 29.9	18.1
103270 2000 AJ_{30}	15.2	X	220.64363	213.84477	299.94227	8.08935	0.0947566	0.21611159	2.7501139	21	10 18.2	19.4
103271 2000 AR_{30}	15.7	X	167.27726	274.07757	85.16717	7.57269	0.1333981	0.28394202	2.2925365	21	2 6.1	18.9
103272 2000 AX_{30}	15.2	X	219.96281	184.03894	310.76263	12.70755	0.1504546	0.21363724	2.7713077	21	9 15.8	19.6
103273 2000 AQ_{32}	16.3	X	197.06783	116.36007	44.05814	2.84305	0.1452620	0.25900762	2.4374049	21	10 5.9	19.8
103274 2000 AF_{33}	14.4	X	347.64766	131.82320	330.32421	8.43751	0.1143144	0.18101884	3.0949492	21	—	—
103275 2000 AM_{33}	15.2	X	284.39983	185.68760	329.74955	7.33796	0.1962537	0.22314306	2.6920335	21	—	—
103276 2000 AT_{33}	16.7	X	28.55100	240.23337	122.57571	5.82228	0.2753341	0.31570579	2.1360644	21	—	—
103277 2000 AU_{33}	15.1	X	135.25956	49.50627	107.78000	15.98739	0.0871153	0.20457554	2.8525521	21	7 26.4	19.3
103278 2000 AG_{34}	16.6	X	146.66446	121.46113	357.27502	3.11984	0.1336685	0.29410053	2.2394370	21	6 20.9	19.8
103279 2000 AD_{35}	15.6	X	261.39865	203.25915	322.22112	13.43691	0.0955816	0.22177439	2.7030980	21	12 29.4	19.3
103280 2000 AV_{36}	16.0	X	62.47946	39.25168	38.38275	1.50978	0.1173329	0.23450758	2.6043427	21	1 2.9	18.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
103281 2000 AY_{36}	17.1	X	190.13888	127.65700	320.18112	4.06537	0.1380941	0.29772934	2.2212032	21	6 25.1	20.2
103282 2000 AX_{37}	15.7	X	286.65245	327.46862	94.92735	5.84772	0.1511875	0.21491692	2.7602960	21	9 13.2	19.1
103283 2000 AZ_{38}	16.2	X	157.49847	37.81575	16.19036	2.16473	0.2080091	0.24415073	2.5353078	21	4 14.9	20.4
103284 2000 AL_{39}	15.4	X	326.74956	312.98662	57.42446	3.22522	0.2007130	0.25974252	2.4328053	21	9 10.8	17.2
103285 2000 AF_{40}	16.1	X	106.62871	22.08776	34.89719	4.59179	0.2754976	0.23883306	2.5728023	21	3 9.2	19.5
103286 2000 AV_{40}	14.3	X	310.47116	257.31198	320.00417	10.42985	0.1380559	0.23320718	2.6140152	21	1 13.4	18.0
103287 2000 AD_{41}	16.2	X	264.95503	63.30911	351.17764	4.18118	0.1454779	0.30232154	2.1986528	21	8 5.8	18.6
103288 2000 AA_{42}	14.5	X	277.74192	283.66382	321.47177	13.32252	0.1587539	0.23221005	2.6214931	21	1 10.6	18.6
103289 2000 AF_{42}	15.3	X	350.36689	11.29554	116.74593	14.64246	0.0514179	0.22981180	2.6396996	21	—	—
103290 2000 AN_{43}	15.4	X	327.30294	55.98131	356.04417	3.10483	0.1793768	0.22002231	2.7174292	21	11 5.8	17.9
103291 2000 AL_{44}	16.3	X	255.73140	97.27260	68.71104	2.05997	0.0376035	0.22245629	2.6975712	21	12 28.9	19.9
103292 2000 AD_{45}	16.1	X	144.07798	304.33931	329.97639	3.36482	0.1092110	0.26742315	2.3859978	21	—	—
103293 2000 AN_{45}	15.6	X	80.95744	350.15991	97.05692	13.41501	0.1266279	0.23884518	2.5727153	21	2 19.9	18.8
103294 2000 AS_{45}	14.5	X	351.77694	279.01236	268.55033	10.78534	0.2418547	0.23709676	2.5853478	21	1 12.0	17.3
103295 2000 AA_{46}	15.7	X	257.43296	222.63120	276.27925	5.21836	0.2011597	0.26564195	2.3966518	21	11 8.3	18.6
103296 2000 AY_{46}	15.8	X	72.86460	351.17092	80.81862	3.57733	0.2367219	0.23476553	2.6024346	21	1 29.1	18.1
103297 2000 AC_{47}	15.4	X	296.67582	187.26121	308.19270	22.05025	0.1628131	0.22262578	2.6962019	21	—	—
103298 2000 AU_{47}	14.7	X	338.25798	8.68335	128.17864	15.74620	0.0718561	0.22739832	2.6583442	21	—	—
103299 2000 AV_{47}	15.2	X	52.97266	16.81848	111.56954	5.51720	0.1522891	0.28211496	2.3024240	21	2 17.7	16.9
103300 2000 AX_{47}	15.1	X	309.30211	335.75218	124.46666	14.07371	0.1194550	0.21994192	2.7180913	21	12 14.7	18.3
103301 2000 AL_{49}	16.3	X	249.16636	184.71434	122.58318	28.00392	0.0639266	0.37776004	1.8952160	21	2 9.4	18.4
103302 2000 AF_{50}	15.8	X	358.08512	82.04316	117.52506	2.94208	0.0581902	0.23988935	2.5652443	21	3 6.7	19.0
103303 2000 AM_{50}	15.5	X	32.48431	15.94356	127.88603	14.08134	0.1329730	0.23491293	2.6013459	21	2 11.9	18.1
103304 2000 AF_{53}	15.7	X	349.26921	245.95849	259.35326	9.37239	0.1153828	0.23460296	2.6036368	21	—	—
103305 2000 AO_{53}	15.3	X	289.91600	209.37871	318.93686	1.37691	0.1365448	0.22649900	2.6653763	21	—	—
103306 2000 AU_{53}	16.0	X	95.58474	79.57062	305.02361	1.05218	0.2251667	0.23323347	2.6138187	21	1 1.7	18.8
103307 2000 AM_{54}	15.7	X	91.90094	355.35608	111.01330	8.54224	0.1463140	0.24021926	2.5628951	21	4 6.8	19.0
103308 2000 AH_{55}	16.2	X	224.95731	285.31540	106.07515	4.26572	0.2123978	0.29624773	2.2286029	21	5 12.8	19.8
103309 2000 AR_{55}	16.0	X	197.66409	133.52195	296.46255	4.38807	0.1444336	0.29596501	2.2300220	21	6 7.9	19.2
103310 2000 AA_{56}	15.7	X	127.42206	250.79574	311.28576	2.31397	0.1389650	0.25417720	2.4681885	21	9 18.6	19.4
103311 2000 AH_{56}	15.0	X	262.96239	27.36169	106.81280	7.16752	0.0542467	0.26480683	2.4016881	21	12 5.3	17.8
103312 2000 AL_{56}	15.8	X	100.20031	105.22790	315.87450	3.72467	0.2027377	0.23719982	2.5845989	21	2 20.9	19.0
103313 2000 AP_{56}	15.6	X	357.70030	38.07554	94.04170	4.19987	0.1447103	0.23027637	2.6361480	21	—	—
103314 2000 AY_{56}	15.4	X	208.00315	161.87586	358.33266	1.73140	0.1339517	0.21428680	2.7657044	21	10 12.2	19.7
103315 2000 AV_{59}	14.8	X	271.95962	113.34458	115.81371	13.04747	0.1454958	0.22943104	2.6426193	21	—	—
103316 2000 AD_{60}	16.0	X	338.76245	268.74597	120.05658	9.07951	0.2279629	0.26372026	2.4082804	21	11 16.8	17.8
103317 2000 AK_{60}	13.8	X	59.19095	250.88769	125.17662	13.68966	0.0325177	0.17743783	3.1364515	21	—	—
103318 2000 AS_{60}	14.5	X	116.27714	47.91079	119.86857	17.06341	0.1907656	0.20157987	2.8807436	21	7 28.6	18.9
103319 2000 AZ_{62}	15.8	X	54.10048	89.20572	13.86334	3.11898	0.1285251	0.28023482	2.3127107	21	1 10.2	17.7
103320 2000 AN_{64}	14.9	X	325.74710	84.49160	333.22367	7.90441	0.2104831	0.21885982	2.7270433	21	11 6.9	17.5
103321 2000 AX_{65}	14.7	X	210.78120	90.98680	105.51310	12.71368	0.1091540	0.21735021	2.7396558	21	12 3.7	18.8
103322 2000 AH_{66}	15.2	X	68.18636	7.18779	119.75663	18.04790	0.1139476	0.23751171	2.5823357	21	3 28.5	18.6
103323 2000 AA_{67}	14.9	X	132.47690	338.01346	88.48358	6.98306	0.0696594	0.28453610	2.2893444	21	3 19.8	17.8
103324 2000 AB_{67}	15.3	X	300.54457	307.37630	96.12579	8.49507	0.1698945	0.25826641	2.4420662	21	9 13.2	17.9
103325 2000 AC_{67}	16.8	X	206.51961	116.54524	302.01911	7.47179	0.0904561	0.29510830	2.2343357	21	6 3.0	20.0
103326 2000 AD_{67}	15.0	X	103.40454	94.56828	111.63434	6.62287	0.1656719	0.20447310	2.8535048	21	9 1.3	19.4
103327 2000 AQ_{68}	15.4	X	18.81447	54.94402	93.25147	12.87234	0.2130246	0.23752965	2.5822057	21	1 15.1	17.8
103328 2000 AC_{69}	15.2	X	2.81541	111.48585	258.47456	12.62575	0.1638730	0.22261860	2.6962599	21	11 16.6	18.2
103329 2000 AN_{69}	16.1	X	312.35136	118.00082	246.28438	3.09715	0.1766869	0.30677060	2.1773432	21	8 1.3	17.8
103330 2000 AX_{69}	15.1	X	71.72628	237.96879	197.90510	3.86087	0.2393287	0.23773650	2.5807077	21	1 29.6	17.4
103331 2000 AY_{69}	15.6	X	57.33751	277.36806	158.86903	4.66076	0.0998530	0.23562152	2.5961279	21	—	—
103332 2000 AZ_{69}	15.9	X	66.61395	330.03988	127.75523	4.83993	0.2220269	0.23866875	2.5739830	21	2 19.7	18.2
103333 2000 AN_{70}	16.0	X	293.19153	99.02069	231.62181	6.10004	0.0857906	0.29886434	2.2155760	21	5 22.3	18.4
103334 2000 AZ_{72}	16.3	X	288.98279	258.28062	147.25521	4.20436	0.1414136	0.26201643	2.4187095	21	8 27.0	18.8
103335 2000 AF_{75}	15.1	X	84.91547	329.07752	123.44207	8.31042	0.1649164	0.24008169	2.5638741	21	3 9.5	18.1
103336 2000 AH_{77}	15.5	X	151.56298	271.75265	141.13480	4.75789	0.1284482	0.24436055	2.5338563	21	4 3.5	19.2
103337 2000 AG_{78}	15.0	X	106.54041	283.60852	115.96935	8.44905	0.1959022	0.23774649	2.5806353	21	2 1.5	18.2
103338 2000 AN_{78}	16.0	X	55.17271	206.46204	225.73530	3.02415	0.1991285	0.23414490	2.6070313	21	—	—
103339 2000 AV_{79}	15.5	X	80.96296	287.77578	261.49618	5.79371	0.0700342	0.29532854	2.2332248	21	6 27.6	17.8
103340 2000 AW_{81}	15.2	X	82.57960	202.17139	195.80635	4.65085	0.1653376	0.23363239	2.6108426	21	—	—
103341 2000 AG_{82}	15.4	X	250.65813	338.66932	122.02540	10.34152	0.1022773	0.21491396	2.7603212	21	9 23.4	19.4
103342 2000 AX_{83}	16.2	X	145.08497	215.74588	238.56320	2.40450	0.0759964	0.24647479	2.5193454	21	5 13.2	19.7
103343 2000 AX_{84}	15.4	X	257.81907	63.61748	130.98390	3.08849	0.1239496	0.22478518	2.6789068	21	—	—
103344 2000 AC_{85}	15.0	X	330.66547	230.76086	281.16005	10.53473	0.1844161	0.22887325	2.6469112	21	—	—
103345 2000 AU_{85}	15.5	X	206.05939	101.49697	270.09580	6.54126	0.1324810	0.29019565	2.2594815	21	3 27.4	18.9
103346 2000 AD_{86}	16.3	X	53.91589	226.94870	152.98623	2.56404	0.2781337	0.27394939	2.3479517	21	—	—
103347 2000 AK_{86}	16.0	X	265.54730	227.34219	290.03684	4.97851	0.1299651	0.26767261	2.3845152	21	12 30.5	18.6
103348 2000 AL_{86}	15.2	X	303.39046	81.82832	291.93972	4.82782	0.1585653	0.21132528	2.7914836	21	7 29.1	18.5
103349 2000 AN_{87}	14.7	X	42.17133	133.06807	292.32310	8.86443	0.1126346	0.18370736	3.0646791	21	—	—
103350 2000 AV_{88}	15.8	X	148.60989	135.14328	286.09370	5.71651	0.1463035	0.28865924	2.2674919	21	4 3.4	19.1
103351 2000 AS_{89}	15.8	X	33.10679	312.18313	122.41173	8.00920	0.0593178	0.27414499	2.3468347	21	—	—
103352 2000 AO_{90}	16.4	X	264.41850	304.73462	116.09446	5.80887	0.0919016	0.30285135	2.1960878	21	8 24.3	18.7
103353 2000 AP_{90}	15.6	X	324.55285	105.17508	295.67339	1.49548	0.2029016	0.21780390	2.7358500	21	10 12.6	18.2
103354 2000 AV_{90}	14.6	X	255.70618	64.74145	121.01528	11.80962	0.0032752	0.17862673	3.1225190	21	—	—
103355 2000 AY_{90}	15.4	X	341.27685	170.06512	288.61433	11.10563	0.1400977	0.22509604	2.6764398	21	—	—
103356 2000 AJ_{92}	14.4	X	349.16917	148.25560	322.33829	16.19108	0.1406333	0.18037902	3.1022636	21	—	—
103357 2000 AM_{92}	14.3	X	106.68642	357.08499	327.66750	25.19277	0.1823106	0.28113793	2.3077553	21	—	—
103358 2000 AE_{93}	15.8	X	219.64099	252.14148	85.02264	8.87416	0.2941441	0.29084193	2.2561330	21	3 3.3	20.0
103359 2000 AH_{93}	15.0	X	237.63993	91.85446	104.83054	24.66672	0.3223345	0.21997219	2.7178419	21	12 9.5	19.4
103360 2000 AS_{94}	16.2	X	297.75459	253.88346	317.79932	5.20113	0.0460352	0.27990017	2.3145538	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
103361 2000 AR_{95}	14.7	X	279.63423	158.38067	324.50889	7.00122	0.0933972	0.21826067	2.7320317	21	11 26.5	18.2
103362 2000 AV_{95}	16.1	X	353.54962	17.11379	119.59235	6.49608	0.1646284	0.27508745	2.3414714	21	—	—
103363 2000 AL_{100}	15.1	X	51.81271	301.30870	138.29144	4.24141	0.1950493	0.23714178	2.5850206	21	—	—
103364 2000 AP_{102}	14.7	X	338.81807	339.04978	99.61047	14.70704	0.1507894	0.22722675	2.6596822	21	—	—
103365 2000 AZ_{103}	15.8	X	349.23037	334.45525	142.37493	6.34500	0.2420052	0.23056867	2.6339196	21	—	—
103366 2000 AQ_{104}	14.7	X	354.59611	322.96092	104.08290	17.13055	0.0861370	0.18128023	3.0919734	21	12 30.9	18.7
103367 2000 AZ_{105}	15.4	X	165.98813	64.64001	265.56973	20.64295	0.2646565	0.28368221	2.2939361	21	1 6.8	19.1
103368 2000 AF_{107}	16.6	X	297.29248	252.93355	225.34901	2.85620	0.1947086	0.26893570	2.3770432	21	12 26.3	18.3
103369 2000 AN_{109}	15.7	X	306.51337	301.33987	160.88181	4.12371	0.1834452	0.22297083	2.6934196	21	12 7.5	18.3
103370 2000 AH_{111}	15.5	X	289.13508	91.38232	112.79292	15.15039	0.1745251	0.22992518	2.6388317	21	—	—
103371 2000 AO_{113}	16.1	X	195.22003	247.77338	190.71935	4.11327	0.1013435	0.29684599	2.2256076	21	6 18.3	19.2
103372 2000 AS_{113}	16.0	X	161.38781	296.05834	151.49629	5.10487	0.1333672	0.29363528	2.2418019	21	5 26.3	19.2
103373 2000 AM_{114}	15.1	X	19.53356	227.77034	238.62041	4.52159	0.1280775	0.27726476	2.3291972	21	—	—
103374 2000 AQ_{114}	16.3	X	140.69621	173.19844	234.70539	4.69673	0.1005860	0.28628182	2.2800281	21	3 2.6	19.3
103375 2000 AT_{114}	16.6	X	22.51858	22.84972	121.82659	6.07851	0.0548299	0.28170857	2.3046378	21	1 16.8	18.8
103376 2000 AX_{118}	14.7	X	5.49627	213.74721	275.00183	7.77281	0.0920578	0.18535756	3.0464625	21	—	—
103377 2000 AG_{119}	15.3	X	240.88151	340.38918	147.87261	8.76725	0.1660975	0.21523923	2.7575396	21	10 7.0	19.3
103378 2000 AM_{119}	16.2	X	240.32828	233.86433	167.51228	5.81533	0.1480701	0.29825811	2.2185772	21	6 14.8	19.4
103379 2000 AH_{120}	15.1	X	261.34006	94.28178	162.95746	4.03760	0.1792372	0.23214576	2.6219770	21	1 5.8	19.5
103380 2000 AN_{120}	15.7	X	75.35538	155.71809	257.37565	5.95979	0.0902782	0.27748436	2.3279682	21	—	—
103381 2000 AP_{120}	15.4	X	67.70977	251.31476	182.93764	4.09080	0.2129996	0.18869287	3.0104568	21	1 30.5	18.8
103382 2000 AC_{121}	15.7	X	167.53024	172.02620	246.41015	5.31681	0.1205774	0.29026166	2.2591389	21	4 19.9	18.9
103383 2000 AF_{121}	15.9	X	253.34828	171.44569	257.89601	5.10117	0.1124181	0.30208508	2.1998000	21	8 13.1	18.7
103384 2000 AG_{121}	15.7	X	258.27132	345.71015	137.49891	9.47878	0.2134297	0.21696383	2.7429074	21	10 15.8	19.6
103385 2000 AU_{121}	15.9	X	48.00759	132.66658	234.12725	6.12571	0.1321716	0.27053927	2.3676410	21	—	—
103386 2000 AK_{122}	15.4	X	40.17156	313.10398	156.34984	6.26085	0.1258494	0.28029290	2.3123913	21	—	—
103387 2000 AS_{123}	15.9	X	240.05314	161.82938	243.56081	5.45766	0.1575053	0.29842535	2.2177482	21	6 18.6	18.9
103388 2000 AX_{123}	15.8	X	330.54216	7.05651	189.19261	5.66808	0.1904125	0.27825266	2.3236809	21	—	—
103389 2000 AN_{124}	16.5	X	146.14800	145.83178	273.58184	4.52736	0.1709892	0.28807014	2.2705822	21	4 1.7	19.8
103390 2000 AL_{125}	14.9	X	261.23296	150.33909	296.38543	12.26960	0.1408151	0.21280975	2.7784870	21	9 2.7	19.0
103391 2000 AZ_{125}	16.2	X	289.29689	223.91500	155.96948	2.41612	0.1714426	0.30128301	2.2037024	21	7 15.1	18.3
103392 2000 AC_{127}	14.9	X	316.89211	40.47037	137.44126	12.73390	0.0966733	0.22912056	2.6450061	21	—	—
103393 2000 AF_{127}	15.8	X	157.78411	276.11108	265.20937	5.21243	0.1321368	0.25495375	2.4631741	21	9 20.2	19.7
103394 2000 AO_{127}	14.7	X	280.66750	59.35596	144.56326	10.06386	0.1750402	0.22638790	2.6662482	21	—	—
103395 2000 AX_{127}	15.5	X	336.03670	357.68317	142.92417	6.52617	0.1238365	0.27364812	2.3496747	21	—	—
103396 2000 AC_{129}	15.0	X	327.67016	127.29825	266.15065	7.78976	0.1518402	0.21560044	2.7544588	21	10 7.6	18.1
103397 2000 AJ_{129}	15.0	X	93.67493	260.72039	141.21940	14.89918	0.0811251	0.23171255	2.6252440	21	1 1.1	18.4
103398 2000 AS_{129}	15.8	X	294.99433	308.06618	139.80267	7.45882	0.2742929	0.21837660	2.7310647	21	10 13.1	18.7
103399 2000 AM_{130}	15.6	X	77.55434	326.50519	135.14461	7.47027	0.1321289	0.28234395	2.3011789	21	2 22.2	17.8
103400 2000 AO_{130}	15.3	X	311.45658	171.98377	276.21016	6.93235	0.2077631	0.22028964	2.7152302	21	11 23.1	17.8
103401 2000 AW_{130}	15.8	X	163.65637	271.52501	117.15640	6.16527	0.1243114	0.28812904	2.2702727	21	3 11.4	18.9
103402 2000 AA_{132}	16.4	X	45.32310	184.62015	285.24688	4.06071	0.0924548	0.28155658	2.3054671	21	1 2.8	18.6
103403 2000 AG_{132}	16.0	X	38.11075	331.75328	95.22857	3.28954	0.0815097	0.22967827	2.6407226	21	—	—
103404 2000 AJ_{134}	15.2	X	347.73972	46.50157	83.39072	12.89748	0.1186623	0.23032427	2.6357826	21	—	—
103405 2000 AM_{134}	16.2	X	343.83803	79.83862	291.15049	0.42041	0.1941231	0.26394430	2.4069174	21	10 24.1	17.7
103406 2000 AX_{135}	15.2	X	334.67985	288.17051	319.19367	4.93753	0.1105920	0.24180697	2.5516641	21	3 26.2	18.3
103407 2000 AC_{136}	16.1	X	69.71037	65.79195	41.96597	2.31373	0.1230833	0.23739109	2.5832104	21	2 26.6	18.8
103408 2000 AK_{140}	16.0	X	81.71785	208.43219	170.72759	5.76520	0.1753915	0.28156937	2.3053973	21	—	—
103409 2000 AP_{140}	15.7	X	33.54662	334.19654	102.47652	4.74374	0.1600347	0.23174949	2.6249651	21	—	—
103410 2000 AR_{140}	15.5	X	17.28665	23.74914	119.43169	19.46814	0.1469472	0.23476221	2.6024591	21	1 11.8	18.2
103411 2000 AR_{141}	15.6	X	175.76147	155.14727	260.38927	5.80353	0.1211436	0.29014092	2.2597656	21	4 24.7	19.0
103412 2000 AS_{142}	14.8	X	329.65146	344.74278	146.48241	13.27088	0.1070889	0.22516810	2.6758687	21	—	—
103413 2000 AL_{143}	14.8	X	298.52517	224.75911	273.78181	10.17580	0.0732591	0.22280411	2.6947630	21	—	—
103414 2000 AX_{144}	14.3	X	14.75285	133.99332	309.77567	23.99269	0.1507176	0.27188552	2.3598188	21	—	—
103415 2000 AF_{146}	15.1	X	97.08806	320.50940	105.81145	19.05157	0.2528649	0.24018243	2.5631571	21	3 11.1	18.7
103416 2000 AM_{148}	14.1	X	254.81733	225.80384	221.92292	26.78448	0.2402281	0.17295463	3.1904205	21	8 8.6	19.6
103417 2000 AL_{150}	15.1	X	278.53929	187.30776	241.95159	8.42527	0.1355254	0.21418528	2.7665783	21	9 5.3	18.8
103418 2000 AM_{150}	16.3	X	157.91369	272.84252	140.71861	6.94965	0.1409513	0.28898856	2.2657689	21	4 8.9	19.5
103419 2000 AS_{150}	15.2	X	246.47273	291.18114	163.75090	14.06478	0.1453180	0.21260752	2.7802486	21	8 31.1	19.3
103420 2000 AX_{150}	15.4	X	172.41141	307.78660	210.71060	10.38339	0.1697559	0.20906232	2.8115914	21	9 1.7	20.3
103421 Laurmatt	15.9	X	41.39473	170.42936	313.19628	8.50712	0.0683009	0.28087659	2.3091865	21	1 17.7	18.2
103422 Laurisiren	16.0	X	302.93605	40.84798	122.07027	7.24706	0.0693895	0.27247852	2.3563938	21	—	—
103423 2000 AM_{153}	15.5	X	36.60938	32.19511	298.99087	4.43775	0.0982905	0.21520795	2.7578068	21	11 6.4	19.1
103424 2000 AY_{155}	16.1	X	80.16719	153.02666	301.04607	2.38121	0.1169797	0.28543672	2.2845263	21	2 11.2	18.3
103425 2000 AX_{157}	15.5	X	44.81977	344.79658	42.71601	3.16634	0.1068015	0.22685767	2.6625661	21	—	—
103426 2000 AC_{158}	15.6	X	83.71763	30.80671	80.02106	7.91210	0.0882714	0.24066751	2.5597118	21	3 22.8	18.8
103427 2000 AJ_{158}	15.7	X	255.37705	41.06924	79.26712	4.45507	0.1487792	0.21732922	2.7398322	21	10 16.1	19.4
103428 2000 AN_{158}	16.2	X	19.41886	81.10276	64.20040	4.99840	0.1087948	0.28152786	2.3056239	21	1 8.2	18.4
103429 2000 AJ_{159}	16.0	X	123.11144	161.21556	331.21319	3.60167	0.1807115	0.29263598	2.2469025	21	6 18.1	19.1
103430 2000 AT_{159}	15.4	X	34.49783	22.17974	70.11152	3.32924	0.1512630	0.23142455	2.6274216	21	—	—
103431 2000 AY_{159}	15.6	X	46.13412	41.84254	89.35252	6.10415	0.0765328	0.28248437	2.3004163	21	2 6.1	17.9
103432 2000 AX_{160}	15.2	X	262.14859	72.58034	335.92890	6.06750	0.2416882	0.21124615	2.7921807	21	7 8.8	19.4
103433 2000 AY_{165}	14.9	X	285.02921	317.57482	254.45539	31.40863	0.2093635	0.23102637	2.6304397	21	—	—
103434 2000 AQ_{171}	16.0	X	66.66942	350.16320	114.17465	15.33572	0.1544467	0.23927495	2.5696338	21	2 22.6	18.8
103435 2000 AO_{176}	14.8	X	35.37073	242.27611	209.39768	9.62155	0.1113024	0.18826974	3.0149656	21	—	—
103436 2000 AE_{179}	15.5	X	7.85402	220.68247	232.84809	10.12805	0.1432008	0.22905449	2.6455147	21	—	—
103437 2000 AJ_{181}	16.5	X	133.16913	263.48695	237.44918	7.53989	0.1113530	0.29507448	2.2345064	21	7 3.5	19.6
103438 2000 AT_{182}	14.8	X	227.39739	236.01424	259.76039	11.26025	0.1570265	0.21418449	2.7665852	21	9 24.4	19.2
103439 2000 AK_{184}	14.9	X	4.71017	295.29676	250.89604	11.80235	0.1345221	0.23769616	2.5809996	21	2 12.8	18.1
103440 2000 AC_{187}	14.9	X	162.75639	314.88634	113.79309	14.84222	0.1931123	0.20446286	2.8536000	21	5 14.5	19.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
103441 2000 AN_{187}	15.6	X	20.08183	301.75740	131.66901	14.24571	0.1521172	0.23183362	2.6243300	21	—	—
103442 2000 AO_{187}	14.9	X	8.17763	326.04602	132.01386	15.79450	0.0519843	0.23321982	2.6139207	21	—	—
103443 2000 AP_{188}	15.6	X	3.33991	266.05311	154.79933	11.11124	0.2348240	0.22786865	2.6546850	21	—	—
103444 2000 AD_{189}	15.7	X	107.09513	244.10805	190.83257	9.45485	0.1502238	0.24158858	2.5532016	21	3 10.8	19.0
103445 2000 AJ_{190}	15.5	X	69.68534	238.07628	223.38420	12.55298	0.1169398	0.23859659	2.5745020	21	2 10.2	18.7
103446 2000 AS_{190}	14.8	X	1.95592	260.99879	158.56413	11.53499	0.1703480	0.22612567	2.6683091	21	—	—
103447 2000 AD_{191}	15.3	X	328.92256	353.49896	149.02011	13.71463	0.2287949	0.22849473	2.6498335	21	—	—
103448 2000 AL_{192}	15.3	X	221.64324	351.59056	182.74414	9.47194	0.1846682	0.21773688	2.7364113	21	11 9.8	19.6
103449 2000 AM_{192}	15.4	X	339.91062	200.07118	204.11955	9.36343	0.2434193	0.22122875	2.7075408	21	11 27.6	17.6
103450 2000 AJ_{193}	15.0	X	21.70437	339.60232	194.53949	9.48405	0.1414023	0.23804020	2.5785122	21	3 2.5	17.7
103451 2000 AM_{193}	15.0	X	308.33901	261.40402	254.85202	12.71526	0.1122897	0.22687146	2.6624582	21	—	—
103452 2000 AY_{193}	15.4	X	311.14328	20.41410	144.46117	15.19335	0.1897668	0.22729988	2.6591117	21	—	—
103453 2000 AU_{194}	15.2	X	292.03912	358.98242	176.72055	8.23090	0.1637115	0.22587559	2.6702783	21	—	—
103454 2000 AE_{196}	15.6	X	337.09949	266.23312	247.24954	10.96922	0.1437594	0.22896399	2.6462118	21	—	—
103455 2000 AJ_{196}	15.4	X	263.50192	356.33237	155.30293	15.37232	0.1251203	0.21994430	2.7180717	21	12 10.4	19.2
103456 2000 AN_{196}	15.1	X	311.41361	234.80473	171.89890	9.03655	0.2813270	0.21687507	2.7436558	21	9 11.1	17.7
103457 2000 AO_{196}	16.0	X	134.42458	215.80937	234.89186	6.95898	0.1773078	0.24366621	2.5386676	21	5 6.7	19.7
103458 2000 AA_{199}	15.3	X	207.21591	351.52584	185.10270	9.14510	0.0993457	0.21493100	2.7601753	21	11 5.8	19.4
103459 2000 AB_{201}	14.2	X	48.43219	169.40361	246.36929	31.93582	0.1424054	0.23133015	2.6281363	21	—	—
103460 Dieterherrmann	15.8	X	19.36170	100.92999	115.44894	2.93344	0.0875748	0.24327425	2.5413937	21	5 2.5	18.6
103461 2000 AX_{205}	15.8	X	264.40628	157.97614	111.93996	18.74991	0.1411309	0.28177703	2.3042645	21	1 18.9	19.1
103462 2000 AQ_{206}	15.5	X	332.89994	75.67886	281.34121	3.65079	0.0918756	0.21346302	2.7728153	21	8 31.3	18.8
103463 2000 AF_{207}	15.6	X	26.00361	215.49371	301.15600	9.39741	0.0865873	0.19020973	2.9944304	21	2 24.1	19.5
103464 2000 AG_{207}	16.1	X	216.98753	345.56584	285.77079	0.72516	0.0506668	0.22920957	2.6443212	21	—	—
103465 2000 AB_{208}	15.7	X	109.80718	47.84088	117.84251	3.88559	0.1217603	0.25263844	2.4782004	21	7 11.7	19.1
103466 2000 AC_{209}	15.3	X	278.66784	347.23539	122.73194	10.16943	0.0552896	0.21736158	2.7395602	21	11 18.1	19.0
103467 2000 AD_{209}	15.7	X	329.51337	351.63166	118.48820	4.38274	0.0963990	0.27006068	2.3704373	21	—	—
103468 2000 AX_{209}	16.4	X	14.36922	258.30338	103.01337	2.49388	0.1997566	0.26845038	2.3799073	21	12 12.8	18.7
103469 2000 AK_{211}	15.0	X	267.06969	326.98652	310.60192	11.78107	0.1713507	0.23532720	2.5982920	21	2 4.2	19.2
103470 2000 AA_{212}	15.5	X	73.84719	358.80063	318.35367	8.55084	0.2496176	0.26030783	2.4292818	21	12 30.9	19.5
103471 2000 AF_{212}	15.4	X	22.84508	91.40453	320.61566	9.95973	0.1678706	0.17727262	3.1383998	21	—	—
103472 2000 AM_{212}	16.6	X	259.31875	353.74618	137.72142	3.20765	0.1619357	0.26199365	2.4188497	21	11 9.3	19.5
103473 2000 AU_{212}	16.0	X	180.21260	137.65583	97.45990	3.59952	0.1544549	0.26933330	2.3747032	21	12 21.9	19.7
103474 2000 AN_{213}	15.7	X	284.28579	199.92070	322.52544	4.06809	0.0325138	0.22545123	2.6736280	21	—	—
103475 2000 AY_{214}	15.8	X	334.95743	237.54293	88.48732	6.30111	0.1560874	0.25867868	2.4394708	21	7 20.4	17.9
103476 2000 AH_{215}	15.2	X	171.59910	150.08537	256.03985	1.66041	0.0962579	0.20103423	2.8859538	21	4 15.2	19.7
103477 2000 AA_{219}	15.5	X	287.85915	72.80785	302.64932	7.80963	0.1745930	0.21029328	2.8006089	21	7 6.1	19.1
103478 2000 AD_{219}	15.6	X	36.39190	58.10155	307.75390	4.34288	0.0786600	0.22144350	2.7057900	21	12 20.4	19.2
103479 2000 AE_{223}	16.1	X	324.58987	338.26617	45.28064	0.41322	0.1663537	0.21663656	2.7456692	21	9 20.6	18.9
103480 2000 AS_{223}	15.5	X	323.52316	236.74808	171.15768	0.47764	0.1666629	0.17075743	3.2177303	21	10 14.5	19.0
103481 2000 AP_{224}	15.7	X	73.82107	314.74949	109.65443	1.64073	0.0713537	0.23582788	2.5946132	21	—	—
103482 2000 AB_{227}	15.9	X	66.23034	211.36112	153.27010	2.72739	0.0810381	0.22121395	2.7076615	21	—	—
103483 2000 AJ_{227}	15.9	X	138.22593	9.38004	320.70378	4.09112	0.1499597	0.27122104	2.3636716	21	—	—
103484 2000 AR_{227}	16.4	X	61.28254	112.09438	319.56346	5.27929	0.1084335	0.27596359	2.3365129	21	—	—
103485 2000 AR_{231}	14.9	X	250.18690	335.11875	296.15392	11.62386	0.1547145	0.23489432	2.6014833	21	1 13.9	19.1
103486 2000 AV_{231}	16.3	X	107.66214	171.14974	291.26126	2.10382	0.0840684	0.28788213	2.2715706	21	4 1.4	18.9
103487 2000 AC_{232}	15.5	X	311.22337	166.63398	299.15029	2.39887	0.0905341	0.22339228	2.6900309	21	12 25.7	18.5
103488 2000 AK_{232}	16.4	X	346.88986	281.67173	103.16787	7.50441	0.1127076	0.26411272	2.4058941	21	11 17.3	18.9
103489 2000 AO_{232}	15.7	X	16.24531	346.19199	122.73060	3.80947	0.0679124	0.22989073	2.6390953	21	—	—
103490 2000 AA_{235}	14.5	X	94.55099	58.34749	289.65519	9.97467	0.1050186	0.18085685	3.0967970	21	—	—
103491 2000 AG_{236}	14.9	X	273.50928	210.36320	275.62324	11.62150	0.1330348	0.21866644	2.7286508	21	11 15.9	18.4
103492 2000 AK_{236}	15.7	X	59.78985	104.61849	299.75738	1.98462	0.3043741	0.23119728	2.6291431	21	—	—
103493 2000 AN_{237}	14.7	X	271.20841	343.82481	127.75637	10.33630	0.1792600	0.21575700	2.7531262	21	10 23.7	18.4
103494 2000 AB_{239}	16.1	X	269.24989	332.02787	101.16010	0.42027	0.0475396	0.21261594	2.7801752	21	9 15.6	19.7
103495 2000 AJ_{239}	16.2	X	348.89711	256.77531	120.30197	4.96014	0.1273491	0.26312562	2.4119074	21	11 10.2	18.6
103496 2000 AR_{239}	14.4	X	224.13561	60.41401	115.20622	17.14204	0.2068350	0.21471201	2.7620519	21	11 15.5	19.0
103497 2000 AX_{240}	15.4	X	287.73262	256.03513	176.23639	12.15207	0.1609775	0.26427855	2.4048876	21	10 1.7	17.9
103498 2000 AW_{243}	15.3	X	117.14400	25.38702	122.08122	11.70662	0.1930263	0.24421702	2.5348490	21	7 3.9	19.2
103499 2000 AO_{244}	15.4	X	29.83888	358.55780	71.18899	14.51900	0.1500394	0.22857150	2.6492401	21	—	—
103500 2000 AE_{245}	14.9	X	22.42768	51.41513	112.34165	24.53595	0.2118768	0.28623270	2.2802890	21	1 29.9	16.5
103501 2000 AT_{245}	15.3	X	137.02637	106.48666	3.92754	22.50228	0.2869365	0.28706113	2.2758997	21	6 7.2	19.6
103502 2000 AF_{247}	15.5	X	173.43746	41.50308	36.37196	9.71237	0.1752087	0.29414988	2.2391865	21	5 24.4	19.1
103503 2000 AP_{248}	15.2	X	324.73713	338.05798	151.96395	13.19741	0.0499195	0.22633179	2.6666888	21	—	—
103504 2000 AF_{254}	15.8	X	353.80688	98.57287	319.23319	1.19322	0.0714914	0.22314230	2.6920396	21	12 27.5	19.1
103505 2000 BW	16.1	X	0.55937	213.78095	297.04377	19.53326	0.0278616	0.37035568	1.9203927	21	—	—
103506 2000 BD_{1}	15.8	X	300.90579	286.56043	170.53113	27.11422	0.2661203	0.35675616	1.9688912	21	—	—
103507 2000 BK_{1}	15.5	X	113.53540	316.76794	120.81513	4.12223	0.0561393	0.19358700	2.9595017	21	3 18.6	19.6
103508 2000 BV_{1}	12.8	X	33.17143	226.05387	152.87489	3.56890	0.0307460	0.08047905	5.3130937	21	11 29.5	19.7
103509 2000 BG_{2}	15.9	X	348.51891	201.59343	313.63326	3.11965	0.1771771	0.27630152	2.3346075	21	—	—
103510 2000 BS_{2}	15.0	X	31.67221	195.21466	340.87470	24.54772	0.1703384	0.28570506	2.2830956	21	3 11.2	16.7
103511 2000 BW_{2}	16.3	X	218.47775	211.84181	332.85165	4.00640	0.1359658	0.26313330	2.4118604	21	11 29.0	19.7
103512 2000 BZ_{2}	15.7	X	168.04138	135.68380	121.10064	7.84111	0.0508501	0.26734377	2.3864701	21	—	—
103513 2000 BM_{3}	14.7	X	336.57992	167.63062	328.28956	8.44878	0.1377787	0.22675339	2.6633824	21	—	—
103514 2000 BD_{4}	13.8	X	119.24891	67.71866	2.10175	13.03458	0.1457074	0.24362471	2.5389559	21	3 20.4	17.1
103515 2000 BR_{4}	15.2	X	247.70858	91.49552	35.08814	12.08319	0.2460879	0.21720488	2.7408777	21	10 3.4	19.3
103516 2000 BY_{4}	14.5	X	335.75414	117.77712	331.43483	12.39734	0.2286926	0.22554222	2.6729088	21	—	—
103517 2000 BE_{5}	15.9	X	161.36813	339.61331	103.17412	4.39994	0.1293947	0.29271585	2.2464938	21	5 19.3	19.0
103518 2000 BF_{5}	17.2	X	181.89300	101.27670	326.78106	3.95299	0.1484067	0.29400760	2.2399089	21	5 19.3	20.5
103519 2000 BW_{5}	15.4	X	2.21482	28.85202	48.52212	13.86238	0.1539659	0.22664020	2.6642691	21	—	—
103520 2000 BB_{6}	14.9	X	257.92583	68.57088	27.05108	13.75657	0.1433653	0.21419059	2.7665326	21	9 20.9	18.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
103521 2000 BH_6	14.8	X	237.21933	281.60758	7.62719	14.50323	0.1961622	0.23554597	2.5966830	21	1 27.1	19.4
103522 2000 BQ_6	16.5	X	222.75725	224.78813	80.62207	12.47798	0.1776366	0.41913123	1.7683547	21	—	—
103523 2000 BT_6	14.2	X	317.47965	65.45767	46.27945	22.86168	0.0591049	0.17904150	3.1176947	21	12 30.7	18.7
103524 2000 BO_7	15.8	X	124.02909	89.43196	56.81090	4.90808	0.0933185	0.29545810	2.2325719	21	6 28.8	18.6
103525 2000 BW_7	16.0	X	187.37886	338.45965	33.86744	5.34055	0.1704039	0.28920824	2.2646214	21	3 16.9	19.5
103526 2000 BS_8	15.7	X	201.98421	5.11827	26.57328	6.68068	0.0822929	0.29115618	2.2545093	21	4 21.9	18.8
103527 2000 BB_9	15.8	X	208.97784	257.46759	97.34752	4.56041	0.1068576	0.24193589	2.5507576	21	3 19.9	19.6
103528 2000 BD_{10}	16.3	X	146.31671	291.52126	131.02554	1.09131	0.0606413	0.24041759	2.5614854	21	4 2.0	19.8
103529 2000 BK_{10}	15.5	X	180.49389	279.54013	131.97750	5.94565	0.0761412	0.19766706	2.9186354	21	5 3.7	20.0
103530 2000 BS_{11}	16.6	X	232.47109	280.80000	290.76561	3.48506	0.0857341	0.27079991	2.3661215	21	—	—
103531 2000 BD_{12}	15.9	X	297.55238	55.98533	308.75219	1.02439	0.0805539	0.20601282	2.8392691	21	7 19.8	19.5
103532 2000 BT_{12}	16.1	X	160.93267	207.03197	112.74066	1.63629	0.2179857	0.27360544	2.3499190	21	—	—
103533 2000 BS_{14}	14.4	X	24.71065	73.35911	349.55116	12.06748	0.2732059	0.22638537	2.6662680	21	—	—
103534 2000 BS_{16}	14.7	X	286.76777	88.57430	114.76617	13.23758	0.2016560	0.22893071	2.6464682	21	—	—
103535 2000 BT_{16}	15.6	X	213.84967	92.47479	57.47546	3.40124	0.0865135	0.21521941	2.7577089	21	10 11.8	19.7
103536 2000 BD_{17}	15.8	X	236.66896	276.81916	307.48291	6.71510	0.0689679	0.27283300	2.3543523	21	—	—
103537 2000 BO_{17}	13.5	X	250.70932	65.35021	85.05722	6.61475	0.1459851	0.12742793	3.9110464	21	11 4.7	19.1
103538 2000 BY_{17}	15.1	X	256.18724	271.91344	318.87399	6.26942	0.2454505	0.27267040	2.3552882	21	—	—
103539 2000 BZ_{17}	15.4	X	317.78931	102.24433	103.99546	7.95734	0.1083008	0.23366863	2.6105726	21	1 11.1	18.8
103540 2000 BT_{18}	15.3	X	229.87778	128.97676	318.04976	6.52571	0.1257996	0.20924244	2.8099776	21	8 5.2	19.3
103541 2000 BU_{18}	15.3	X	7.78630	154.73613	356.78540	1.84997	0.2087336	0.18780237	3.0199656	21	1 14.9	18.6
103542 2000 BV_{18}	16.7	X	143.79585	278.38293	337.78935	17.63633	0.0558347	0.35578152	1.9724854	21	—	—
103543 2000 BJ_{20}	16.2	X	45.08680	152.12153	312.54074	5.77374	0.0496336	0.27837690	2.3229895	21	—	—
103544 2000 BC_{21}	16.9	X	300.11323	212.53173	288.78948	1.43725	0.0488036	0.26955693	2.3733897	21	—	—
103545 2000 BP_{22}	15.9	X	17.26566	57.69522	131.28712	6.22246	0.2204782	0.23689844	2.5867904	21	3 17.5	17.9
103546 2000 BN_{23}	15.2	X	256.04618	81.81867	355.54090	16.93044	0.1334058	0.21236771	2.7823413	21	8 26.8	19.2
103547 2000 BA_{24}	15.0	X	233.85916	194.84095	10.06742	12.61268	0.1165059	0.22239980	2.6980280	21	—	—
103548 2000 BH_{24}	15.2	X	190.05731	126.01606	48.77788	8.59521	0.1609129	0.21234257	2.7825608	21	10 13.5	19.7
103549 2000 BJ_{24}	14.8	X	57.01440	37.14027	350.02294	14.56297	0.0469915	0.22458097	2.6805304	21	—	—
103550 2000 BS_{24}	15.2	X	287.78767	297.72515	32.93578	10.00784	0.1290096	0.29252051	2.2474938	21	5 5.9	18.1
103551 2000 BJ_{25}	15.9	X	156.19438	72.13196	301.34838	6.12113	0.1401922	0.28373253	2.2936649	21	2 9.9	19.0
103552 2000 BU_{26}	15.5	X	188.88959	223.71162	314.99794	8.00239	0.0846733	0.25892950	2.4378952	21	10 20.4	19.2
103553 2000 BW_{26}	15.6	X	292.58411	93.38244	93.16906	2.88746	0.1648768	0.22601400	2.6691880	21	—	—
103554 2000 BF_{27}	15.7	X	76.45067	209.08900	348.75287	4.87912	0.1043024	0.29220188	2.2491273	21	7 11.0	18.2
103555 2000 BS_{27}	16.3	X	307.94323	185.25469	356.27348	3.93375	0.1225855	0.27443084	2.3452048	21	—	—
103556 2000 BD_{28}	16.2	X	202.27726	36.87788	153.06023	2.88532	0.1304569	0.26190336	2.4194055	21	11 19.7	19.7
103557 2000 BK_{28}	14.9	X	6.77511	309.75569	115.39520	6.54433	0.3579847	0.22830538	2.6512984	21	—	—
103558 2000 BE_{29}	15.3	X	213.71428	291.75894	328.93489	6.42776	0.1788422	0.27084469	2.3658607	21	—	—
103559 2000 BU_{31}	15.7	X	86.44017	312.93502	308.76786	9.14615	0.1350866	0.25543685	2.4600674	21	10 17.9	19.4
103560 Peate	15.6	X	127.85402	11.98835	281.04684	5.64993	0.1345882	0.26608165	2.3940108	21	—	—
103561 2000 BJ_{32}	15.3	X	148.41832	162.79856	112.48049	4.53688	0.0673780	0.22210763	2.7003936	21	—	—
103562 2000 BL_{33}	15.9	X	162.51145	66.89766	115.12143	4.80685	0.1431417	0.25582599	2.4575721	21	9 30.9	19.8
103563 2000 BY_{33}	16.5	X	341.27804	158.93390	356.37404	3.10620	0.1022159	0.27586438	2.3370731	21	—	—
103564 2000 BR_{34}	15.3	X	238.07427	24.25163	131.08484	21.23745	0.0935182	0.26232312	2.4168239	21	11 28.4	18.9
103565 2000 BG_{35}	15.4	X	22.94835	124.98036	327.37038	12.08685	0.1362106	0.22940688	2.6428048	21	—	—
103566 2000 BL_{35}	15.1	X	291.45019	104.67020	57.37412	4.79846	0.1264084	0.22416728	2.6838273	21	—	—
103567 2000 BR_{40}	16.7	X	144.34475	334.96926	301.20000	1.21906	0.1359230	0.26541343	2.3980273	21	—	—
103568 2000 BZ_{41}	16.3	X	96.22373	51.03041	287.64458	1.17611	0.2747132	0.27433049	2.3457767	21	—	—
103569 2000 BD_{45}	16.3	X	278.57536	264.35382	135.83214	3.24793	0.1746554	0.25561769	2.4589071	21	7 27.4	19.2
103570 2000 BH_{49}	15.5	X	143.26607	47.36753	301.11563	2.40715	0.0330658	0.23099613	2.6306692	21	—	—
103571 2000 BU_{49}	16.8	X	240.03402	343.77304	323.87594	0.77392	0.1975270	0.28499541	2.2868840	21	2 9.2	20.4
103572 2000 BX_{50}	15.5	X	225.13756	358.88270	299.23205	10.28841	0.0643312	0.23528880	2.5985747	21	1 24.1	19.3
103573 2000 BE_{51}	15.3	X	178.73977	305.58432	353.49605	0.78064	0.1390814	0.18088988	3.0964201	21	—	—
103574 2000 CR	15.5	X	136.42912	312.00205	126.16152	3.61978	0.1194661	0.24096091	2.5576336	21	4 18.7	19.1
103575 2000 CS	16.2	X	157.29831	164.86497	327.79590	6.79209	0.1324346	0.29533077	2.2332136	21	7 22.9	19.5
103576 2000 CG_1	15.6	X	193.11487	105.19859	323.66667	6.93614	0.1310460	0.29340510	2.2429742	21	6 1.0	19.0
103577 2000 CL_1	15.2	X	294.20140	37.67970	146.91928	15.29637	0.1258203	0.22486181	2.6782981	21	—	—
103578 2000 CK_3	15.1	X	87.95963	300.06563	120.33727	5.72189	0.2051546	0.23866672	2.5739976	21	2 2.6	17.9
103579 2000 CZ_3	15.8	X	274.24883	255.12363	267.07557	1.75498	0.1114226	0.27007927	2.3703286	21	—	—
103580 2000 CF_4	15.7	X	93.17005	26.37273	142.61670	3.12667	0.0665463	0.24812362	2.5081720	21	6 16.6	18.8
103581 2000 CO_4	16.0	X	230.08195	129.43844	278.99666	7.07743	0.0962384	0.29796767	2.2200186	21	6 17.5	18.8
103582 2000 CQ_4	16.0	X	67.91781	249.53179	122.12005	6.65475	0.2437916	0.27494812	2.3422624	21	—	—
103583 2000 CR_5	15.2	X	32.99572	235.62585	153.36893	2.50685	0.2183942	0.22605318	2.6688795	21	—	—
103584 2000 CW_5	15.7	X	35.28929	327.61651	168.53371	5.64342	0.1546790	0.28310825	2.2970354	21	1 19.1	17.5
103585 2000 CH_7	14.9	X	72.00777	76.97731	345.65590	2.10240	0.0810356	0.18556506	3.0441911	21	1 8.7	18.7
103586 2000 CR_7	15.1	X	327.85883	116.70168	97.32698	9.86009	0.0342928	0.18983660	2.9983530	21	2 25.5	19.3
103587 2000 CT_7	16.5	X	218.96726	339.22341	66.16809	4.03371	0.1708767	0.29534864	2.2331235	21	5 26.5	19.6
103588 2000 CU_7	15.2	X	310.91607	322.56142	121.22447	18.56647	0.1006196	0.21850823	2.7299678	21	11 29.6	18.8
103589 2000 CH_8	16.0	X	150.71263	155.73922	280.73426	7.07051	0.0922652	0.29075424	2.2565867	21	4 20.9	19.1
103590 2000 CL_8	15.8	X	114.14452	183.74242	264.31732	4.40782	0.1015621	0.24137069	2.5547380	21	3 29.1	19.2
103591 2000 CR_8	15.6	X	230.19265	339.12422	127.78423	9.83605	0.1043590	0.21173576	2.7878747	21	9 4.5	19.7
103592 2000 CB_9	16.5	X	218.66042	184.30122	242.90166	4.18784	0.1026390	0.29814232	2.2191516	21	6 29.4	19.4
103593 2000 CC_{10}	15.8	X	23.57269	136.90715	289.00798	1.24298	0.1962234	0.22809389	2.6529371	21	—	—
103594 2000 CC_{11}	14.8	X	286.20525	284.47895	282.76121	7.92065	0.1509036	0.22879183	2.6475391	21	—	—
103595 2000 CE_{11}	16.3	X	75.45402	341.23372	207.37528	4.68637	0.1500185	0.29173223	2.2515405	21	7 1.9	18.8
103596 2000 CK_{12}	15.0	X	80.08068	219.54112	144.02140	15.07867	0.1046791	0.22596968	2.6695369	21	—	—
103597 2000 CP_{14}	16.5	X	162.08868	7.76485	168.02466	2.70772	0.1357096	0.25536200	2.4605482	21	9 20.4	20.3
103598 2000 CR_{14}	15.8	X	58.41297	164.61274	241.76534	2.42988	0.1014724	0.22836039	2.6508726	21	—	—
103599 2000 CY_{14}	16.4	X	230.91200	322.07283	173.87642	1.26441	0.1365685	0.26022349	2.4298066	21	10 11.7	19.8
103600 2000 CM_{16}	15.9	X	270.01804	196.35272	152.13940	6.49838	0.1933234	0.29498198	2.2349736	21	5 3.1	19.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
103601 2000 CP_{17}	16.1	X	146.64085	233.50640	145.78835	7.35794	0.1224307	0.28231956	2.3013115	21	2 5.2	18.9
103602 2000 CU_{17}	16.6	X	94.93250	285.27875	140.17336	5.62955	0.1273072	0.28152097	2.3056615	21	1 28.1	18.8
103603 2000 CG_{18}	16.0	X	36.87255	319.18458	174.88580	4.50915	0.1327389	0.23499054	2.6007731	21	2 4.0	18.8
103604 2000 CH_{18}	15.5	X	303.26206	302.78782	191.17349	3.47717	0.0186942	0.22324700	2.6911979	21	—	—
103605 2000 CM_{18}	16.0	X	202.90411	2.85896	264.36883	5.28313	0.1009847	0.27224589	2.3577359	21	—	—
103606 2000 CR_{18}	15.4	X	330.23724	158.78501	291.73791	12.06513	0.1240987	0.22229091	2.6989090	21	—	—
103607 2000 CE_{19}	16.3	X	255.28053	356.75645	143.04815	4.19944	0.1393871	0.21766913	2.7369792	21	11 10.8	20.0
103608 2000 CR_{19}	16.1	X	308.71626	105.02580	270.48189	4.57917	0.1895419	0.30309956	2.1948887	21	8 9.6	17.8
103609 2000 CE_{20}	15.9	X	124.13643	296.65841	180.47477	4.50980	0.1408381	0.24443064	2.5333719	21	5 27.4	19.5
103610 2000 CS_{20}	15.8	X	206.24015	247.24291	139.61457	4.02063	0.0474137	0.24348378	2.5399355	21	4 27.1	19.3
103611 2000 CW_{20}	15.7	X	87.86730	116.18287	143.07855	3.61032	0.1556635	0.25524117	2.4613246	21	10 24.9	19.2
103612 2000 CD_{21}	15.4	X	284.48455	237.99507	301.29675	13.58681	0.0439198	0.22562224	2.6722768	21	—	—
103613 2000 CM_{21}	15.4	X	187.59515	300.69434	281.42995	7.91788	0.1045411	0.21768623	2.7368358	21	12 8.6	19.6
103614 2000 CF_{22}	16.0	X	230.95222	340.46904	176.79159	1.78822	0.1508965	0.21582769	2.7525250	21	10 31.9	20.1
103615 2000 CQ_{22}	15.3	X	280.21081	338.57866	152.93199	7.59492	0.2046603	0.21979355	2.7193144	21	11 26.8	18.5
103616 2000 CK_{23}	16.3	X	250.60331	265.31755	162.66389	7.33900	0.1207581	0.30080097	2.2060561	21	8 7.1	19.0
103617 2000 CL_{23}	15.9	X	270.14300	252.39762	158.88120	8.90297	0.2367453	0.25691477	2.4506239	21	7 20.8	19.3
103618 2000 CT_{23}	15.7	X	27.76013	314.66090	156.16141	8.43642	0.1174916	0.23091079	2.6313174	21	—	—
103619 2000 CH_{24}	16.0	X	192.02897	105.20411	278.36485	2.92766	0.1356390	0.28805601	2.2706564	21	3 31.1	19.4
103620 2000 CJ_{24}	16.3	X	293.67289	338.29066	151.25752	7.74465	0.1375689	0.26716694	2.3875230	21	—	—
103621 2000 CA_{25}	15.8	X	322.09753	346.40529	235.80029	2.82620	0.1765464	0.27933816	2.3176572	21	1 16.6	18.6
103622 2000 CR_{25}	16.4	X	265.96632	309.64959	173.95433	3.36270	0.1465116	0.21687586	2.7436492	21	11 2.5	19.8
103623 2000 CN_{26}	15.2	X	257.25395	306.27660	169.22402	1.82395	0.0703663	0.21428845	2.7656903	21	10 21.9	19.0
103624 2000 CF_{27}	15.4	X	245.19962	325.24864	251.88558	2.97433	0.2431575	0.22204542	2.7008979	21	—	—
103625 2000 CY_{27}	16.0	X	161.97446	243.88100	314.82717	5.54200	0.1016456	0.25710529	2.4494131	21	10 17.2	19.7
103626 2000 CH_{28}	16.3	X	146.79188	174.03451	243.33299	1.67200	0.2270313	0.28751092	2.2735254	21	4 7.0	19.6
103627 2000 CL_{28}	15.5	X	207.48856	333.93586	167.71391	7.08758	0.0756500	0.21030979	2.8004622	21	9 24.2	19.4
103628 2000 CB_{29}	16.4	X	149.19811	142.40991	298.35212	3.40564	0.1138741	0.28882713	2.2666131	21	4 29.0	19.5
103629 2000 CN_{29}	14.7	X	124.80712	119.49018	158.12900	9.28419	0.1072142	0.21595445	2.7514478	21	12 13.9	19.1
103630 2000 CS_{29}	15.1	X	109.01813	104.85107	321.42934	9.24894	0.1182256	0.18981578	2.9985722	21	3 4.4	19.4
103631 2000 CL_{30}	15.5	X	328.59568	80.15264	147.59192	28.37716	0.3626620	0.23190823	2.6237671	21	1 15.5	19.6
103632 2000 CP_{30}	15.9	X	96.78250	266.95575	168.58323	2.70469	0.1243553	0.23686867	2.5870072	21	2 23.3	19.1
103633 2000 CW_{30}	15.7	X	337.28674	355.18779	222.68796	3.84431	0.0488365	0.23735113	2.5835003	21	2 27.6	18.9
103634 2000 CA_{31}	15.4	X	165.88084	94.60554	239.99214	2.02086	0.1223349	0.23134866	2.6279961	21	1 10.4	19.3
103635 2000 CT_{31}	15.5	X	212.03151	355.92479	172.95209	5.29413	0.0962027	0.21443154	2.7644598	21	11 1.5	19.6
103636 2000 CW_{31}	16.3	X	124.26086	190.59195	221.23375	1.76424	0.1235197	0.28251657	2.3002415	21	2 20.2	19.1
103637 2000 CF_{32}	15.3	X	287.01314	28.25516	166.74379	5.35477	0.1851312	0.22548644	2.6733496	21	—	—
103638 2000 CJ_{32}	14.3	X	144.19669	8.11777	324.52646	12.98936	0.1635885	0.22661556	2.6644622	21	—	—
103639 2000 CP_{33}	14.7	X	19.43577	301.26470	100.59354	14.09343	0.2624132	0.22405954	2.6846876	21	—	—
103640 2000 CQ_{33}	14.9	X	311.19563	317.21984	124.13064	6.29736	0.1616843	0.17327020	3.1865456	21	11 8.8	18.7
103641 2000 CV_{33}	15.6	X	167.94828	28.96589	135.77099	4.61470	0.0592791	0.25343695	2.4729923	21	9 13.9	18.9
103642 2000 CG_{34}	16.0	X	214.90957	10.56117	154.94985	6.78063	0.0671721	0.25938717	2.4350267	21	11 11.2	19.4
103643 2000 CW_{34}	14.2	X	66.28796	79.91706	286.02520	9.27312	0.0963929	0.17801209	3.1297024	21	—	—
103644 2000 CK_{35}	16.2	X	94.13404	302.05010	154.91113	5.16485	0.1175770	0.28450873	2.2894912	21	3 12.3	18.6
103645 2000 CP_{35}	14.5	X	316.34485	246.15961	237.10341	2.86727	0.1684088	0.17796450	3.1302604	21	—	—
103646 2000 CD_{36}	15.2	X	253.07348	309.51134	155.31584	8.29131	0.2873574	0.21290269	2.7776784	21	9 2.9	19.6
103647 2000 CH_{36}	16.0	X	333.22651	207.67110	317.65883	2.83461	0.1754508	0.27425533	2.3462052	21	—	—
103648 2000 CG_{37}	14.7	X	308.86719	3.77458	335.40847	7.24335	0.1131511	0.24647456	2.5193470	21	6 26.9	17.7
103649 2000 CJ_{37}	15.9	X	227.25971	9.85724	17.15654	4.77126	0.1623770	0.29387619	2.2405765	21	5 9.5	19.2
103650 2000 CL_{37}	16.5	X	240.15149	268.23843	118.58616	3.48276	0.1430912	0.29623115	2.2286861	21	5 26.2	19.5
103651 2000 CJ_{38}	16.3	X	312.77336	72.21817	134.34043	3.72569	0.1768128	0.27685662	2.3314858	21	—	—
103652 2000 CP_{38}	15.5	X	302.36999	250.59658	216.90160	0.26177	0.1342200	0.17581610	3.1557091	21	11 28.6	19.4
103653 2000 CR_{39}	16.2	X	46.56272	26.06733	130.42109	1.61551	0.1664570	0.28363446	2.2941935	21	3 20.9	17.8
103654 2000 CX_{40}	16.3	X	12.55134	37.46222	98.58995	3.91262	0.1670582	0.27699456	2.3307117	21	—	—
103655 2000 CC_{41}	16.7	X	195.13579	98.81916	143.33796	7.35395	0.0718947	0.26620481	2.3932723	21	—	—
103656 2000 CV_{41}	15.7	X	142.14457	198.22229	168.93965	4.34230	0.0241390	0.23233455	2.6205565	21	1 11.2	19.2
103657 2000 CW_{41}	16.0	X	136.44073	300.41618	302.66555	10.12879	0.1597267	0.25928058	2.4356940	21	11 17.3	20.1
103658 2000 CL_{42}	16.3	X	276.32988	346.15125	157.05031	1.99510	0.1010353	0.26649049	2.3915616	21	12 31.5	18.9
103659 2000 CS_{45}	15.9	X	300.18508	308.75018	191.55188	5.14424	0.1882228	0.22225023	2.6992384	21	—	—
103660 2000 CJ_{46}	16.3	X	241.14723	59.91794	157.73263	1.51735	0.1340578	0.26858602	2.3791059	21	—	—
103661 2000 CK_{46}	16.5	X	103.67796	273.50017	164.61917	7.16811	0.1096193	0.28238587	2.3009512	21	2 25.8	18.9
103662 2000 CM_{46}	16.3	X	67.22392	310.41125	168.11822	6.35002	0.0430918	0.28167106	2.3048424	21	2 17.6	18.8
103663 2000 CC_{47}	15.2	X	269.87905	328.89370	163.33263	9.43716	0.1155357	0.21787940	2.7352179	21	11 25.2	18.8
103664 2000 CK_{48}	15.3	X	229.03354	253.78623	269.13592	6.45675	0.1595592	0.21500161	2.7595710	21	11 2.4	19.4
103665 2000 CZ_{48}	15.3	X	73.95967	307.43188	161.84183	10.67029	0.2221744	0.19078741	2.9883828	21	3 31.7	19.0
103666 2000 CU_{49}	15.2	X	214.93912	311.61123	246.86450	5.23816	0.0515266	0.21737425	2.7394538	21	12 15.6	18.9
103667 2000 CB_{50}	15.0	X	224.06028	242.49564	308.66542	12.97652	0.0608697	0.21742116	2.7390598	21	12 16.7	19.0
103668 2000 CB_{51}	14.5	X	295.70976	231.12584	320.21168	16.70701	0.1062956	0.17980082	3.1089108	21	—	—
103669 2000 CW_{51}	16.2	X	241.51786	178.67092	321.28458	4.22458	0.1364366	0.26044295	2.4284415	21	10 27.9	19.4
103670 2000 CD_{52}	14.7	X	244.78613	3.50697	171.33052	1.52046	0.1362301	0.17194824	3.2028571	21	12 2.6	19.2
103671 2000 CP_{54}	15.4	X	350.95066	258.77046	193.31904	1.62453	0.1755014	0.22338816	2.6900640	21	—	—
103672 2000 CB_{55}	14.8	X	192.77426	126.10010	140.93884	6.72666	0.1928203	0.22334885	2.6903797	21	—	—
103673 2000 CZ_{55}	15.0	X	191.23695	193.43004	324.30863	12.19096	0.0506967	0.21032070	2.8003654	21	9 22.2	19.3
103674 2000 CU_{58}	16.1	X	73.87453	60.76631	158.80026	25.44023	0.0854859	0.38510361	1.8710454	21	8 7.9	18.0
103675 2000 CP_{59}	16.3	X	331.30503	354.24671	153.76364	8.32492	0.0515914	0.27451078	2.3447495	21	—	—
103676 2000 CQ_{59}	15.5	X	302.02849	72.92926	182.60079	5.74836	0.1388770	0.23705013	2.5856868	21	2 16.8	19.0
103677 2000 CT_{59}	14.8	X	34.51034	69.99508	154.76175	10.51434	0.1771301	0.19710647	2.9241667	21	6 21.5	18.2
103678 2000 CY_{59}	15.3	X	177.86867	107.33237	156.45934	12.50888	0.0390141	0.22247302	2.6974360	21	—	—
103679 2000 CL_{61}	15.1	X	220.70499	225.82387	290.45074	7.77430	0.2106216	0.21282043	2.7783940	21	10 9.1	19.7
103680 2000 CP_{61}	14.7	X	268.99536	222.71862	307.94339	9.98458	0.0521193	0.22029073	2.7152214	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
103681 2000 CN_{62}	15.1	X	259.70519	285.74602	192.21059	8.83000	0.2794293	0.21495011	2.7600117	21	9 26.8	19.0
103682 2000 CY_{62}	15.2	X	29.35845	261.50644	325.22797	13.35516	0.1237577	0.24101981	2.5572169	21	6 4.7	18.3
103683 2000 CK_{64}	15.7	X	15.27760	147.47169	2.55646	2.07986	0.1696845	0.18774248	3.0206078	21	1 30.8	18.9
103684 2000 CF_{65}	16.3	X	219.98897	95.45002	123.74735	4.12395	0.0990986	0.26687742	2.3892494	21	—	—
103685 2000 CB_{66}	15.2	X	124.23695	45.40588	197.58133	4.75152	0.1069558	0.21261305	2.7802004	21	11 1.1	19.5
103686 2000 CX_{66}	16.6	X	113.34875	206.18084	226.31396	5.75632	0.1207256	0.28396363	2.2924203	21	3 3.2	19.4
103687 2000 CL_{68}	15.5	X	113.76588	327.47526	298.71646	1.67775	0.0534506	0.21495762	2.7599475	21	11 13.9	19.4
103688 2000 CS_{68}	16.3	X	101.02859	92.74897	226.07043	0.37831	0.1886664	0.26660339	2.3908864	21	—	—
103689 2000 CK_{69}	15.1	X	292.37663	228.16847	315.86721	13.98677	0.0339659	0.22714071	2.6603538	21	—	—
103690 2000 CM_{71}	15.7	X	297.87578	211.51886	298.50044	1.54403	0.1327684	0.26750756	2.3854959	21	—	—
103691 2000 CG_{72}	16.2	X	236.94025	110.95405	321.24437	1.17730	0.0694424	0.20660561	2.8338355	21	7 31.1	20.2
103692 2000 CJ_{72}	15.4	X	270.90245	121.06396	135.45853	13.80049	0.1102708	0.23245919	2.6196196	21	1 19.3	19.3
103693 2000 CY_{72}	15.4	X	64.36001	168.31374	260.87638	4.34668	0.1372954	0.23281147	2.6169763	21	—	—
103694 2000 CP_{73}	15.5	X	272.02081	170.43282	137.65850	10.24957	0.0776968	0.24078516	2.5588779	21	4 2.3	19.1
103695 2000 CL_{75}	15.1	X	83.21685	297.38870	336.54418	12.65884	0.2080413	0.25693372	2.4505034	21	11 6.5	19.1
103696 2000 CP_{75}	15.8	X	261.04803	283.61373	172.35809	13.42992	0.1643791	0.21358578	2.7717528	21	9 17.1	19.5
103697 2000 CB_{76}	15.9	X	154.44434	22.64323	7.55234	7.33168	0.1173912	0.28419186	2.2911927	21	3 2.4	19.0
103698 2000 CH_{77}	14.8	X	182.87102	120.72590	127.84943	9.02159	0.1503120	0.21987130	2.7186732	21	—	—
103699 2000 CS_{77}	17.2	X	130.93477	296.10255	164.29816	3.19120	0.1196789	0.28828263	2.2694663	21	5 7.7	20.1
103700 2000 CC_{78}	15.7	X	19.80284	221.30885	159.12047	5.75579	0.0799090	0.21701903	2.7424423	21	12 16.2	19.2
103701 2000 CL_{78}	16.1	X	297.47679	24.39747	150.43232	6.27852	0.0566163	0.27097472	2.3651037	21	—	—
103702 2000 CZ_{78}	16.0	X	252.91350	307.44440	303.04988	2.89284	0.1665086	0.22795610	2.6540060	21	—	—
103703 2000 CZ_{81}	15.7	X	154.45949	67.01346	334.48984	4.42916	0.1781076	0.28557005	2.2838151	21	3 20.1	19.0
103704 2000 CH_{82}	15.7	X	304.36006	31.27833	136.78679	10.95829	0.1071610	0.27157873	2.3615957	21	—	—
103705 2000 CW_{82}	15.3	X	260.95023	311.08550	119.21348	3.67501	0.1172184	0.30152059	2.2025447	21	8 28.3	17.7
103706 2000 CS_{83}	14.9	X	290.90796	188.05651	332.10566	14.53233	0.0218771	0.22286679	2.6942578	21	—	—
103707 2000 CW_{83}	14.8	X	342.39582	30.60797	85.54039	2.18494	0.1389389	0.17914705	3.1164700	21	—	—
103708 2000 CD_{84}	15.3	X	148.75471	267.67936	324.46092	2.34342	0.1974567	0.21122286	2.7923859	21	11 11.3	20.1
103709 2000 CF_{84}	16.0	X	191.70426	307.06067	145.69005	5.61254	0.1258957	0.29530737	2.2333315	21	7 3.4	19.3
103710 2000 CT_{86}	15.3	X	180.10806	14.63531	126.44973	6.76926	0.0747565	0.25186110	2.4832969	21	8 27.1	18.8
103711 2000 CV_{86}	15.1	X	45.40578	319.11616	120.97413	6.43798	0.2432438	0.23022837	2.6365145	21	—	—
103712 2000 CP_{87}	15.4	X	327.75914	277.90170	141.09637	9.79493	0.1742975	0.21780262	2.7358607	21	11 20.8	18.3
103713 2000 CZ_{87}	16.0	X	246.06340	355.94764	139.23505	1.63579	0.1296951	0.26047944	2.4282147	21	10 31.2	19.1
103714 2000 CO_{89}	16.1	X	333.44186	32.31513	62.31543	3.19670	0.1757327	0.26717027	2.3875032	21	—	—
103715 2000 CA_{91}	15.6	X	274.46762	352.30425	152.32989	1.89845	0.1701870	0.21867585	2.7285725	21	12 8.4	18.8
103716 2000 CK_{91}	15.1	X	6.98108	162.61687	151.91799	11.55017	0.0360274	0.25095076	2.4892988	21	8 31.3	18.1
103717 2000 CS_{91}	15.3	X	211.43193	275.17997	344.01816	8.74116	0.1960184	0.26722343	2.3871866	21	—	—
103718 2000 CV_{92}	15.3	X	10.60745	51.98760	52.16598	3.53146	0.1661113	0.27260198	2.3556822	21	—	—
103719 2000 CV_{93}	15.1	X	254.58377	280.98278	332.63879	9.52101	0.2502297	0.22745744	2.6578836	21	—	—
103720 2000 CF_{95}	14.6	X	182.87972	216.99759	31.16242	14.27061	0.1590192	0.25986988	2.4320104	21	—	—
103721 2000 CV_{95}	16.4	X	220.08455	256.20227	112.78435	1.60088	0.1007859	0.29057017	2.2575395	21	4 12.7	19.5
103722 2000 CL_{96}	16.3	X	32.13327	153.94827	334.79788	5.47655	0.1711155	0.27830897	2.3233675	21	1 3.1	18.2
103723 2000 CN_{96}	16.7	X	188.44444	251.05996	340.57553	2.46694	0.1526454	0.26204992	2.4185034	21	12 24.8	20.2
103724 2000 CW_{96}	15.5	X	206.29552	123.41144	259.38927	6.07461	0.1347013	0.28844519	2.2686135	21	4 12.7	19.0
103725 2000 CF_{98}	14.9	X	57.20259	73.27213	324.84082	10.12894	0.1128613	0.17851759	3.1237915	21	—	—
103726 2000 CR_{98}	16.0	X	0.13089	15.20005	297.60084	1.34254	0.0802980	0.20576084	2.8415866	21	8 15.8	19.3
103727 2000 CF_{99}	15.6	X	51.50784	133.34126	344.29500	0.48121	0.1569117	0.18864334	3.0109837	21	2 22.6	19.1
103728 2000 CZ_{99}	15.7	X	300.97729	9.04708	338.22509	1.37111	0.0801380	0.20414047	2.8566035	21	7 1.1	19.4
103729 2000 CW_{100}	15.9	X	86.75286	237.65278	123.46021	7.68380	0.1490736	0.27340341	2.3510765	21	—	—
103730 2000 CJ_{102}	15.8	X	316.59507	12.37587	189.47448	2.54859	0.1702187	0.27605505	2.3359968	21	—	—
103731 2000 CK_{102}	16.5	X	185.62258	329.08485	182.46392	2.03039	0.1334305	0.25459728	2.4654728	21	9 12.2	20.3
103732 2000 CO_{103}	15.1	X	191.01454	92.39036	300.93346	22.46870	0.2836597	0.29015453	2.2596950	21	4 3.4	19.7
103733 2000 CD_{105}	16.7	X	121.14140	58.06697	327.78402	7.15669	0.1271027	0.27856605	2.3219378	21	1 14.9	19.5
103734 2000 CO_{106}	15.9	X	176.70856	318.98827	307.84726	9.43054	0.2389719	0.26756165	2.3851744	21	—	—
103735 2000 CH_{108}	15.3	X	103.95386	274.61140	199.81822	14.78751	0.1318018	0.24144008	2.5542485	21	4 28.4	18.6
103736 2000 CQ_{108}	15.5	X	45.42013	277.51061	222.84510	10.65129	0.1142531	0.23613226	2.5923830	21	2 23.9	18.6
103737 2000 CU_{108}	16.0	X	4.53333	94.62156	111.27651	2.11600	0.0666857	0.23872908	2.5735493	21	3 24.8	19.0
103738 2000 CA_{110}	16.1	X	166.59981	124.76671	148.64744	3.40581	0.0624360	0.22155140	2.7049115	21	—	—
103739 2000 CT_{110}	15.2	X	176.15652	343.91034	330.85433	7.71803	0.0629473	0.22988175	2.6391641	21	—	—
103740 Budinger	15.4	X	243.54554	12.71655	99.02032	1.84152	0.0228718	0.21239358	2.7821153	21	10 6.7	19.1
103741 2000 CA_{112}	15.6	X	104.66186	262.59657	200.22766	11.41900	0.2182144	0.24013593	2.5634880	21	4 26.3	19.1
103742 2000 CP_{112}	16.9	X	230.91401	271.72488	146.69696	0.83069	0.1442654	0.29907505	2.2145352	21	6 27.9	19.8
103743 2000 CS_{112}	14.9	X	296.05951	254.88188	316.69083	9.16703	0.0718093	0.23221523	2.6214540	21	—	—
103744 2000 CV_{112}	15.6	X	248.29800	188.18665	89.08012	6.97775	0.0949968	0.28066494	2.3103473	21	1 14.7	18.9
103745 2000 CC_{113}	15.9	X	69.38509	127.83762	310.07846	1.35995	0.0753270	0.23350780	2.6117712	21	1 11.4	18.9
103746 2000 CK_{113}	15.6	X	159.84731	338.52337	311.63707	6.26622	0.1310053	0.26956036	2.3733696	21	—	—
103747 2000 CT_{114}	15.0	X	220.31010	239.72903	290.95196	10.22573	0.0592494	0.21644975	2.7472488	21	11 13.9	19.0
103748 2000 CE_{115}	16.4	X	137.00419	247.64713	148.22623	6.31087	0.1351274	0.28311001	2.2970259	21	2 17.5	19.2
103749 2000 CO_{115}	16.3	X	173.93475	266.16599	117.31975	3.14645	0.0836282	0.23905970	2.5711760	21	3 17.8	19.9
103750 2000 CZ_{116}	15.2	X	357.05600	321.14513	104.72013	10.87695	0.1026968	0.26646436	2.3917180	21	—	—
103751 2000 CE_{117}	16.3	X	112.75046	93.93981	168.92714	1.22811	0.1539002	0.25925655	2.4358445	21	11 22.4	19.9
103752 2000 CM_{117}	15.7	X	324.88113	130.72943	121.47538	14.06889	0.0932952	0.24126986	2.5554497	21	3 29.3	19.1
103753 2000 CA_{118}	15.4	X	68.51551	191.84139	127.16392	12.51742	0.1042881	0.21818275	2.7326821	21	12 6.6	19.4
103754 2000 CP_{122}	15.2	X	9.50891	175.12469	25.53739	1.78959	0.0246777	0.19353805	2.9600007	21	4 1.4	19.1
103755 2000 CY_{123}	16.4	X	161.32719	288.34585	121.35839	5.23146	0.1478388	0.28873562	2.2670920	21	4 7.9	19.7
103756 2000 CH_{124}	15.4	X	291.32946	203.12247	337.39431	7.80779	0.0296564	0.22657361	2.6647911	21	—	—
103757 2000 CJ_{124}	14.7	X	74.54681	315.95492	328.04579	16.38834	0.1153191	0.21153103	2.7896732	21	10 20.8	19.1
103758 2000 CF_{125}	16.0	X	169.91658	136.73483	102.30775	3.25556	0.1347658	0.26255182	2.4154202	21	12 16.9	19.6
103759 2000 CG_{125}	16.1	X	249.60924	240.62577	130.35777	7.63699	0.1493613	0.29334399	2.2432857	21	5 16.4	19.3
103760 2000 CV_{125}	15.6	X	287.76958	239.73998	92.19877	4.44701	0.0909379	0.24460463	2.5321704	21	5 19.6	18.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
103761 2000 CV_{129}	16.7	X	212.73402	227.76224	151.11426	1.66324	0.1684419	0.29022130	2.2593483	21	4 16.4	20.0
103762 2000 CP_{131}	16.3	X	334.02093	178.87725	142.74220	3.23705	0.0410881	0.20352084	2.8623987	21	7 19.1	20.0
103763 2000 CP_{136}	16.8	X	115.08421	66.71751	314.02304	0.42931	0.1190728	0.23105776	2.6302015	21	1 8.8	20.1
103764 2000 CY_{139}	15.6	X	197.32492	66.39654	335.72611	1.28104	0.0878221	0.19690052	2.9262054	21	5 7.2	19.9
103765 2000 CZ_{139}	16.1	X	69.26652	335.07966	122.72349	0.15549	0.0825544	0.18722208	3.0262026	21	2 17.0	19.9
103766 2000 CY_{141}	15.6	X	103.84403	102.79096	125.73130	5.17151	0.0498315	0.20912158	2.8110602	21	9 17.2	19.5
103767 2000 CK_{147}	16.0	X	263.36832	236.31855	148.06327	6.98092	0.0789457	0.20372410	2.8604944	21	6 29.6	20.1
103768 2000 DO	15.6	X	230.59299	137.90302	350.23400	7.76229	0.1710644	0.21148375	2.7900889	21	9 21.3	19.9
103769 2000 DV	15.8	X	260.18046	32.80550	128.64342	6.84733	0.0930428	0.26411254	2.4058951	21	12 31.8	18.7
103770 Wilfriedlang	15.0	X	269.14435	218.18581	358.52979	16.57625	0.1258354	0.17709548	3.1404923	21	—	—
103771 2000 DZ_{1}	15.5	X	30.80402	148.84239	342.63040	1.97490	0.1440363	0.18697259	3.0288940	21	2 4.2	19.0
103772 2000 DD_{2}	16.8	X	112.53293	257.83961	172.65394	4.32005	0.1307157	0.27984342	2.3148667	21	3 4.0	19.5
103773 2000 DH_{2}	16.6	X	71.22201	57.47770	46.62197	1.59855	0.1829715	0.27932565	2.3177264	21	2 21.7	18.5
103774 2000 DA_{4}	14.7	X	205.84762	64.80684	111.37351	7.09919	0.1408637	0.21386176	2.7693677	21	11 1.2	19.1
103775 2000 DK_{4}	15.6	X	40.43716	36.88497	75.33554	4.58128	0.2242968	0.18716373	3.0268316	21	1 31.8	18.5
103776 2000 DV_{4}	15.0	X	253.47477	97.94476	121.98163	10.67636	0.0430276	0.22553257	2.6729851	21	—	—
103777 2000 DG_{5}	15.0	X	139.50486	284.18880	20.45632	5.21412	0.0729146	0.22190567	2.7020318	21	—	—
103778 2000 DH_{5}	16.2	X	51.63628	134.38952	3.98730	6.01379	0.1047627	0.28224477	2.3017180	21	2 27.7	18.2
103779 2000 DN_{5}	14.7	X	276.06376	31.90323	72.12003	37.28590	0.1671178	0.21556912	2.7547257	21	11 6.2	18.8
103780 2000 DO_{5}	15.8	X	74.59820	116.67482	181.78715	2.96248	0.1800525	0.25614901	2.4555056	21	12 1.2	19.5
103781 2000 DZ_{6}	16.5	X	332.97595	279.78517	182.01995	0.93965	0.1194497	0.26683016	2.3895316	21	—	—
103782 2000 DJ_{7}	15.5	X	59.37099	84.90665	56.86784	8.15836	0.2248075	0.28243593	2.3006793	21	4 6.9	17.2
103783 2000 DZ_{7}	15.9	X	57.13983	148.40274	143.14953	3.03633	0.1762203	0.25545411	2.4599567	21	11 2.9	19.1
103784 2000 DA_{8}	15.6	X	353.83997	350.65830	330.87594	1.31422	0.0942451	0.20644986	2.8352606	21	8 18.2	18.8
103785 2000 DQ_{8}	16.5	X	206.83746	23.67444	125.78370	2.21021	0.1238749	0.25714158	2.4491827	21	10 3.9	19.9
103786 2000 DY_{8}	16.2	X	129.64173	300.00605	308.26827	1.63738	0.1666623	0.25787555	2.4445332	21	11 19.5	20.2
103787 2000 DL_{9}	16.5	X	88.93620	133.30807	153.04760	2.78887	0.1759463	0.25804705	2.4434500	21	11 30.4	20.3
103788 2000 DA_{10}	15.4	X	354.33811	233.40543	343.79125	0.70231	0.1557308	0.19037014	2.9927481	21	3 23.1	18.8
103789 2000 DL_{10}	15.6	X	211.56357	135.37160	156.75964	3.22630	0.0346039	0.23003461	2.6379948	21	1 2.5	19.3
103790 2000 DY_{10}	16.2	X	75.65374	177.53691	146.40306	6.61777	0.1489015	0.26275180	2.4141944	21	12 31.3	19.9
103791 2000 DB_{11}	15.7	X	353.43044	36.01875	334.64640	5.23493	0.0437497	0.21268917	2.7795370	21	10 20.1	19.4
103792 2000 DE_{11}	16.2	X	122.36693	284.90225	138.43435	2.86011	0.0515298	0.23607266	2.5928194	21	3 3.5	19.6
103793 2000 DK_{11}	15.5	X	279.15668	60.05016	172.37804	1.32592	0.1799015	0.17899331	3.1182542	21	1 1.9	20.4
103794 2000 DG_{12}	15.9	X	34.11028	290.60585	170.57995	5.65022	0.1704299	0.22782178	2.6550491	21	—	—
103795 2000 DO_{12}	16.2	X	102.20207	234.35316	28.39803	1.69696	0.0298740	0.20825124	2.8188869	21	10 24.3	20.0
103796 2000 DQ_{12}	15.8	X	181.60001	142.11419	155.79220	2.01931	0.0483415	0.22258323	2.6965456	21	—	—
103797 2000 DR_{12}	15.4	X	13.23432	9.24749	161.03408	3.01646	0.0414007	0.18518504	3.0483543	21	2 27.7	19.3
103798 2000 DH_{13}	16.3	X	65.89599	220.61146	167.05089	6.20148	0.1384837	0.27041280	2.3683791	21	—	—
103799 2000 DN_{13}	16.5	X	354.50717	296.44265	180.94250	2.03552	0.1582926	0.27261598	2.3556016	21	—	—
103800 2000 DO_{13}	16.7	X	135.22744	67.42717	204.24679	1.23881	0.1152931	0.26119131	2.4238007	21	12 23.6	20.2
103801 2000 DY_{13}	16.2	X	169.19782	67.15769	170.01479	2.70313	0.0286938	0.21615122	2.7497778	21	12 12.0	20.0
103802 2000 DH_{14}	15.9	X	7.66816	111.54875	338.50801	0.84213	0.1424315	0.17898494	3.1183514	21	—	—
103803 2000 DJ_{17}	16.0	X	209.92073	263.97042	343.01174	18.76268	0.0566725	0.36040087	1.9555946	21	—	—
103804 2000 DU_{17}	15.2	X	141.96956	3.27609	281.95058	1.01955	0.1134575	0.17329845	3.1861992	21	12 31.5	20.3
103805 2000 DV_{17}	16.2	X	38.01497	130.56012	306.37436	2.26822	0.0284783	0.22698421	2.6615765	21	—	—
103806 2000 DZ_{17}	15.6	X	43.09690	236.48438	134.93472	4.90100	0.0787685	0.22021353	2.7158559	21	—	—
103807 2000 DM_{18}	15.9	X	56.77665	217.73210	346.33026	6.92434	0.1712100	0.24294664	2.5436779	21	6 30.2	18.8
103808 2000 DN_{18}	15.9	X	78.69727	253.50075	129.32948	3.54961	0.1529402	0.27209687	2.3585967	21	—	—
103809 2000 DB_{19}	16.4	X	246.42512	24.80819	127.59048	3.15830	0.1290794	0.26333837	2.4106082	21	11 24.6	19.3
103810 2000 DD_{19}	16.0	X	135.62126	116.58293	331.77990	6.75663	0.0635785	0.28781851	2.2719053	21	4 14.8	19.0
103811 2000 DE_{19}	16.1	X	215.72409	229.50414	312.16079	4.23352	0.0994052	0.21637413	2.7478888	21	11 18.7	20.2
103812 2000 DK_{19}	15.0	X	151.06258	332.97191	322.95958	14.56066	0.1104100	0.22271170	2.6955084	21	—	—
103813 2000 DO_{19}	15.0	X	281.27365	319.39775	331.49382	8.74998	0.1171493	0.23858334	2.5745972	21	3 11.4	18.6
103814 2000 DW_{19}	15.3	X	307.17968	31.34215	141.00592	3.40974	0.1381144	0.22645753	2.6657016	21	—	—
103815 2000 DE_{20}	16.1	X	278.39261	73.07009	310.61517	3.16901	0.1654913	0.29908742	2.2144742	21	7 5.5	18.4
103816 2000 DL_{20}	15.7	X	265.39707	256.78611	258.43877	1.85893	0.0100647	0.22004860	2.7172127	21	12 30.7	19.4
103817 2000 DW_{20}	15.9	X	322.10668	308.65361	179.85526	2.17508	0.0244020	0.22378463	2.6868858	21	—	—
103818 2000 DY_{20}	15.7	X	309.89573	288.29689	145.23842	10.04095	0.1449823	0.21714508	2.7413810	21	11 8.6	18.9
103819 2000 DL_{21}	15.4	X	87.22011	210.57078	154.07620	8.33031	0.1098317	0.22485558	2.6783476	21	—	—
103820 2000 DN_{22}	16.0	X	333.23217	351.78223	239.82778	2.52450	0.0772694	0.23695725	2.5863624	21	3 8.9	19.1
103821 2000 DE_{23}	15.5	X	139.58236	304.83481	323.49639	8.33574	0.1875619	0.21598026	2.7512286	21	12 17.1	20.2
103822 2000 DQ_{23}	16.3	X	180.91728	65.17099	337.97707	3.45423	0.0958891	0.28814574	2.2701850	21	4 12.9	19.5
103823 2000 DC_{24}	15.0	X	8.90414	117.96133	333.59627	1.71677	0.0398506	0.17917005	3.1162032	21	—	—
103824 2000 DE_{24}	15.5	X	203.71094	314.88783	342.24599	1.99437	0.2272737	0.27383833	2.3485865	21	—	—
103825 2000 DR_{24}	16.5	X	234.73198	272.17545	140.16559	4.39823	0.1560271	0.29691684	2.2252535	21	6 22.7	19.7
103826 2000 DV_{24}	15.2	X	200.31656	242.03889	335.30836	12.15262	0.1596916	0.21707383	2.7419808	21	12 10.1	19.7
103827 2000 DH_{25}	15.3	X	7.14006	9.00362	166.70598	4.72326	0.0360973	0.23481662	2.6020572	21	2 16.8	18.4
103828 2000 DC_{26}	16.1	X	149.66129	53.80633	340.58726	5.75161	0.1280335	0.28306171	2.2972872	21	3 1.7	19.1
103829 2000 DZ_{26}	15.9	X	225.84187	259.88358	256.17476	0.51298	0.1465423	0.21424779	2.7660402	21	10 24.5	19.8
103830 2000 DL_{27}	14.9	X	312.54616	282.82052	322.31443	12.90950	0.2025530	0.23381902	2.6094531	21	2 9.5	18.4
103831 2000 DO_{27}	15.7	X	321.63413	204.00419	182.88647	3.66842	0.1041114	0.21115346	2.7929977	21	9 23.7	18.7
103832 2000 DV_{27}	16.9	X	139.21781	248.24446	190.30921	1.33489	0.1814928	0.28792959	2.2713210	21	4 23.7	20.1
103833 2000 DP_{28}	15.3	X	183.76372	87.56065	161.30278	3.91832	0.0517703	0.22001503	2.7174892	21	—	—
103834 2000 DY_{28}	15.9	X	220.81700	240.00018	159.53850	2.37925	0.1170802	0.24640591	2.5198149	21	5 26.2	19.5
103835 2000 DG_{29}	16.4	X	308.37883	78.91221	345.78745	1.12265	0.1929477	0.21561442	2.7543398	21	10 14.4	19.0
103836 2000 DU_{29}	16.7	X	263.52533	34.47570	171.59939	2.37122	0.1656603	0.26951807	2.3736178	21	—	—
103837 2000 DX_{29}	16.2	X	39.59312	244.63612	321.19076	4.28608	0.0737350	0.28792661	2.2713367	21	5 14.1	18.6
103838 2000 DN_{31}	14.8	X	84.80626	26.78092	337.61626	9.72318	0.0843419	0.17740541	3.1368336	21	—	—
103839 2000 DN_{32}	15.3	X	89.25855	24.26214	297.92125	1.28453	0.0782521	0.21766671	2.7369995	21	12 28.4	19.3
103840 2000 DU_{32}	15.1	X	133.37326	300.90404	330.98763	12.26891	0.1261172	0.21537441	2.7563857	21	12 14.7	19.7

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
103841 2000 DM_{33}	16.4	X	209.38646	216.08208	165.61220	5.90410	0.1341635	0.28846871	2.2684902	21	4 18.6	19.7
103842 2000 DQ_{33}	15.8	X	175.01302	69.21723	314.49797	4.70058	0.1764297	0.28479828	2.2879392	21	3 16.6	19.4
103843 2000 DZ_{33}	15.4	X	2.25101	202.58763	180.34722	2.14778	0.2021769	0.21680145	2.7442769	21	12 8.4	18.2
103844 2000 DC_{34}	15.3	X	228.62048	157.34942	157.34913	15.97509	0.0849042	0.23401790	2.6079745	21	2 16.7	19.1
103845 2000 DF_{34}	15.4	X	23.77620	73.41253	316.86843	2.81813	0.2119652	0.22069272	2.7119231	21	—	—
103846 2000 DQ_{34}	16.0	X	81.08798	317.25007	132.41859	1.60013	0.0656236	0.23377818	2.6097570	21	2 12.1	19.2
103847 2000 DW_{34}	15.3	X	85.87522	202.58478	148.67378	5.58230	0.0636322	0.22124642	2.7073966	21	—	—
103848 2000 DE_{35}	15.9	X	145.50247	43.31634	347.53419	6.26441	0.1372721	0.28159893	2.3052359	21	2 22.5	19.0
103849 2000 DK_{35}	14.5	X	23.65595	264.44336	137.56481	5.82691	0.1210177	0.17517191	3.1634411	21	—	—
103850 2000 DS_{35}	15.1	X	156.99796	166.03575	331.08729	1.22028	0.0076859	0.20240576	2.8729020	21	7 20.5	19.0
103851 2000 DW_{35}	15.3	X	244.64730	60.10478	147.15353	1.60635	0.1203812	0.17525043	3.1624961	21	—	—
103852 2000 DH_{36}	15.6	X	174.91779	334.58812	147.32947	2.62457	0.0108329	0.20275701	2.8695831	21	7 23.3	19.6
103853 2000 DX_{36}	15.2	X	59.24672	334.24174	342.84716	5.85298	0.1257353	0.25858157	2.4400815	21	11 29.7	18.6
103854 2000 DJ_{37}	16.3	X	223.65981	215.40327	351.89618	5.92939	0.0654423	0.26551304	2.3974275	21	—	—
103855 2000 DP_{37}	15.6	X	191.01001	300.26218	153.12901	2.61752	0.0193448	0.20139505	2.8825058	21	7 6.2	19.5
103856 2000 DA_{38}	15.8	X	209.91304	164.02467	146.91410	2.44188	0.0329123	0.23118941	2.6292028	21	1 23.7	19.5
103857 2000 DG_{39}	16.0	X	338.44352	278.81820	225.15890	2.41042	0.0790287	0.22667403	2.6640040	21	—	—
103858 2000 DH_{39}	15.4	X	355.62286	289.29206	231.56770	2.49940	0.0619282	0.18455898	3.0552442	21	1 21.4	19.4
103859 2000 DX_{39}	16.1	X	170.37856	197.97180	262.66569	2.00036	0.1562310	0.20114936	2.8848525	21	6 23.3	20.8
103860 2000 DN_{40}	15.4	X	288.56816	293.62276	161.74568	9.34156	0.1311079	0.21554676	2.7549161	21	11 2.7	18.8
103861 2000 DS_{40}	15.9	X	333.10607	207.23257	227.74887	1.20086	0.0385485	0.21755084	2.7379712	21	12 16.7	19.3
103862 2000 DW_{40}	15.8	X	38.32406	134.25122	334.94978	6.99897	0.0770117	0.27663492	2.3327313	21	—	—
103863 2000 DR_{41}	15.4	X	73.15847	334.22826	348.28135	4.22498	0.0442007	0.21542521	2.7559523	21	12 5.1	19.2
103864 2000 DX_{41}	15.6	X	162.25812	251.77560	355.66541	2.44113	0.0223279	0.21699484	2.7426461	21	12 16.6	19.4
103865 2000 DY_{42}	15.2	X	98.46215	175.23282	119.89233	2.97366	0.0597767	0.21458025	2.7631824	21	12 3.7	19.1
103866 2000 DA_{43}	15.6	X	195.13723	30.40882	130.14365	3.46961	0.0255914	0.21006261	2.8026587	21	10 8.8	19.5
103867 2000 DC_{43}	15.4	X	209.85978	64.74047	16.58759	1.82501	0.0555935	0.20253675	2.8716631	21	7 12.2	19.6
103868 2000 DV_{43}	15.9	X	14.38357	75.89282	345.95731	1.31265	0.0876027	0.22180907	2.7028162	21	—	—
103869 2000 DC_{44}	16.4	X	207.46105	267.62836	339.94685	4.53315	0.1906262	0.26598236	2.3946065	21	—	—
103870 2000 DJ_{44}	15.3	X	294.69340	262.66597	163.50385	4.05522	0.0724459	0.21178684	2.7874264	21	10 9.2	18.8
103871 2000 DK_{45}	15.2	X	81.08782	267.30599	177.94554	4.57959	0.1739018	0.18839341	3.0136461	21	3 1.6	19.0
103872 2000 DT_{45}	15.7	X	318.89671	278.53579	197.27842	3.67317	0.0306585	0.22055810	2.7130265	21	—	—
103873 2000 DD_{46}	15.2	X	64.87004	134.83385	189.16437	4.28989	0.0904831	0.21407213	2.7675531	21	12 4.2	19.0
103874 2000 DG_{46}	16.0	X	179.67886	29.91494	174.47828	5.07901	0.1194205	0.25876315	2.4389399	21	11 15.2	19.6
103875 2000 DR_{47}	16.4	X	181.42798	249.72052	148.60375	3.77149	0.1637807	0.28720361	2.2751470	21	4 13.1	19.9
103876 2000 DS_{47}	16.7	X	204.75025	79.65946	151.10468	3.66098	0.0850456	0.26524385	2.3990492	21	—	—
103877 2000 DF_{48}	15.6	X	309.94498	3.52280	353.94566	1.99625	0.0554106	0.20381270	2.8596654	21	7 31.9	19.3
103878 2000 DH_{48}	15.5	X	315.07658	272.99358	52.73909	0.38630	0.2102353	0.24556511	2.5255634	21	5 31.6	18.2
103879 2000 DZ_{48}	14.4	X	178.67282	355.94647	330.70046	14.21199	0.1112477	0.22920721	2.6443394	21	1 16.6	18.5
103880 2000 DG_{49}	16.3	X	73.10792	123.81785	147.73027	4.37801	0.1803685	0.25255905	2.4787198	21	10 27.4	19.8
103881 2000 DS_{49}	15.1	X	245.30544	163.88618	162.03779	10.99736	0.1158914	0.19156148	2.9803271	21	3 25.2	19.7
103882 2000 DE_{50}	16.5	X	98.72431	13.99920	13.35334	0.54613	0.2119899	0.27560318	2.3385495	21	—	—
103883 2000 DP_{50}	16.1	X	53.21333	245.57540	193.72798	2.00664	0.1856574	0.27628428	2.3347046	21	—	—
103884 2000 DB_{51}	15.5	X	245.33554	186.68420	141.06674	3.82934	0.1215896	0.23746253	2.5826922	21	3 21.7	19.3
103885 2000 DH_{51}	15.6	X	232.99025	62.49403	24.38891	2.01617	0.0513790	0.20563781	2.8427199	21	8 17.4	19.5
103886 2000 DP_{51}	14.8	X	313.40666	63.29370	349.63241	7.02393	0.2978541	0.21535800	2.7565257	21	9 21.8	17.2
103887 2000 DO_{52}	16.1	X	20.30471	254.26766	349.16925	3.14243	0.1495535	0.24211296	2.5495138	21	6 15.8	18.4
103888 2000 DP_{52}	15.1	X	155.42799	138.06606	357.78228	1.68828	0.0037779	0.20139454	2.8825107	21	7 16.7	18.9
103889 2000 DS_{52}	15.5	X	263.51216	129.39593	164.85676	13.48930	0.0587745	0.23514671	2.5996214	21	3 4.2	19.2
103890 2000 DY_{52}	15.4	X	93.93381	183.06052	166.37336	13.13962	0.1125917	0.26759798	2.3849585	21	—	—
103891 2000 DJ_{53}	16.3	X	194.77667	323.43665	237.50581	1.80605	0.1314704	0.26014517	2.4302943	21	11 24.5	19.7
103892 2000 DM_{54}	15.5	X	350.84179	75.14190	334.47645	5.31306	0.0566787	0.21640328	2.7476420	21	12 9.1	19.1
103893 2000 DR_{54}	15.1	X	236.49335	18.27810	329.62633	1.54555	0.0674612	0.19305579	2.9649280	21	4 13.2	19.5
103894 2000 DB_{55}	15.1	X	358.92844	242.31212	156.53265	14.62024	0.0677039	0.21610787	2.7501454	21	12 10.3	18.9
103895 2000 DF_{55}	15.6	X	224.39383	124.56164	152.25786	9.20745	0.1628660	0.22610073	2.6685053	21	—	—
103896 2000 DN_{55}	15.3	X	284.47649	300.99418	23.89357	2.13514	0.1034349	0.19566516	2.9385091	21	5 6.2	19.2
103897 2000 DS_{55}	15.3	X	217.31356	201.62093	158.12631	10.83597	0.0778936	0.19226111	2.9730925	21	4 9.8	19.8
103898 2000 DT_{55}	15.7	X	96.20192	140.05081	150.57575	5.28490	0.1849100	0.25747027	2.4470978	21	12 12.9	19.5
103899 2000 DG_{56}	15.8	X	46.18533	53.13702	156.41252	5.54632	0.1337477	0.24169828	2.5524290	21	6 13.4	18.7
103900 2000 DM_{56}	15.3	X	189.58229	102.33513	162.56881	11.97120	0.1229477	0.22051790	2.7133562	21	—	—
103901 2000 DP_{56}	17.1	X	195.89906	24.02804	165.84906	2.15036	0.1608789	0.25888142	2.4381970	21	11 9.7	20.8
103902 2000 DR_{56}	15.5	X	15.52716	329.59127	342.23361	12.56745	0.0664974	0.25139953	2.4863356	21	9 10.9	18.4
103903 2000 DX_{56}	15.6	X	112.68974	321.15149	334.54684	5.17998	0.0492916	0.21599271	2.7511229	21	12 19.3	19.6
103904 2000 DG_{57}	16.2	X	159.26865	259.09410	332.93343	5.47117	0.1093736	0.25895150	2.4377571	21	11 26.9	19.9
103905 2000 DA_{58}	15.5	X	211.99953	198.89198	184.97093	5.70099	0.1220749	0.24169226	2.5524714	21	4 27.2	19.3
103906 2000 DJ_{58}	15.4	X	183.01328	281.45554	301.53249	3.41716	0.0510092	0.21541797	2.7560141	21	12 8.4	19.4
103907 2000 DW_{58}	14.7	X	181.97537	353.87198	335.03118	9.53668	0.0583139	0.18260529	3.0769975	21	1 26.2	19.3
103908 2000 DO_{59}	15.0	X	194.21080	319.58601	341.57605	14.18072	0.0497009	0.18033507	3.1027676	21	1 7.6	19.8
103909 2000 DQ_{59}	16.5	X	21.66297	125.16003	292.86900	0.44692	0.1763871	0.26896905	2.3768467	21	—	—
103910 2000 DS_{59}	16.0	X	252.55750	19.06242	169.52790	5.22763	0.0930821	0.21986371	2.7187359	21	—	—
103911 2000 DW_{59}	16.3	X	118.49173	241.88185	359.62840	1.53384	0.1348135	0.25444670	2.4664454	21	10 30.1	20.1
103912 2000 DA_{60}	15.5	X	53.98085	187.43223	28.25827	0.38353	0.0699264	0.19749111	2.9203687	21	6 26.3	19.1
103913 2000 DN_{60}	15.7	X	251.70025	151.01630	352.85326	3.95133	0.0576822	0.21497412	2.7598062	21	11 20.3	19.5
103914 2000 DR_{60}	15.2	X	184.71320	332.97016	4.25627	5.44532	0.2144121	0.23035498	2.6355483	21	2 7.9	19.6
103915 2000 DZ_{60}	15.2	X	194.30930	105.58169	359.13608	4.32514	0.1042029	0.20319457	2.8654620	21	7 23.3	19.7
103916 2000 DL_{61}	15.7	X	239.20632	305.32641	146.75536	2.88765	0.0057272	0.20596466	2.8397117	21	9 6.8	19.5
103917 2000 DS_{61}	16.1	X	153.41855	10.01264	30.71589	1.27469	0.2414464	0.28427361	2.2907535	21	3 25.3	19.7
103918 2000 DG_{62}	15.4	X	338.69328	52.12836	162.00354	14.80977	0.0487351	0.23408462	2.6074789	21	2 26.7	18.5
103919 2000 DJ_{62}	14.2	X	26.95528	233.15206	163.96906	14.64318	0.2024026	0.17415653	3.1757248	21	—	—
103920 2000 DM_{62}	16.0	X	167.09410	72.67639	337.53744	6.27546	0.0879461	0.28529475	2.2852841	21	4 5.2	19.3

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
103921 2000 DN_{62}	15.2	X	81.92659	104.83201	175.95092	3.08266	0.0537046	0.20967792	2.8060856	21	10 26.4	19.0
103922 2000 DO_{62}	15.0	X	66.93088	105.43311	337.74087	8.92425	0.1446101	0.18519657	3.0482278	21	2 4.5	18.8
103923 2000 DP_{62}	15.6	X	140.77505	299.44140	167.82379	10.23262	0.0617641	0.19639205	2.9312539	21	5 28.5	20.0
103924 2000 DC_{63}	14.8	X	199.24515	52.90072	340.76430	11.41018	0.0694782	0.19445282	2.9507101	21	4 24.6	19.5
103925 2000 DJ_{63}	15.0	X	103.98323	352.48840	316.80730	4.51233	0.0402492	0.21647703	2.7470180	21	12 25.7	18.9
103926 2000 DR_{63}	14.9	X	209.62716	292.81039	327.29465	4.77243	0.1176599	0.17555235	3.1588691	21	—	—
103927 2000 DA_{64}	15.1	X	353.74472	230.32062	174.05763	14.80425	0.1576907	0.21677843	2.7444712	21	12 17.2	18.5
103928 2000 DL_{64}	14.6	X	82.97775	119.00806	176.35812	6.29397	0.1027732	0.21116024	2.7929380	21	11 21.6	18.8
103929 2000 DU_{64}	14.8	X	195.70509	48.17664	310.12208	2.04715	0.0798333	0.18853994	3.0120844	21	3 13.5	19.4
103930 2000 DG_{65}	15.7	X	40.64443	173.29430	146.39308	5.34949	0.2251824	0.25536365	2.4605375	21	11 26.5	18.9
103931 2000 DN_{65}	15.3	X	91.46913	175.81909	159.60907	12.90480	0.1267810	0.21881357	2.7274275	21	—	—
103932 2000 DS_{65}	15.1	X	3.08549	51.53352	148.99750	1.66531	0.1275347	0.18899334	3.0072651	21	3 19.1	18.4
103933 2000 DY_{66}	15.2	X	333.25221	81.55318	190.49203	1.98346	0.0196986	0.19509879	2.9441934	21	5 15.3	19.3
103934 2000 DK_{67}	16.3	X	47.96433	140.21458	274.44430	1.47546	0.1959446	0.27207643	2.3587148	21	—	—
103935 2000 DS_{67}	15.4	X	27.29078	166.99503	187.74050	4.90659	0.1691926	0.21321501	2.7749651	21	12 6.0	18.8
103936 2000 DV_{67}	15.2	X	198.23495	230.80306	317.47672	3.14861	0.0389736	0.21303176	2.7765563	21	11 12.9	19.1
103937 2000 DR_{68}	14.8	X	326.83385	19.66217	331.83769	3.36250	0.0590980	0.20405539	2.8573976	21	8 17.3	18.3
103938 2000 DU_{68}	14.9	X	289.03344	287.65138	340.02496	5.09019	0.1508137	0.27874043	2.3209694	21	2 11.1	18.1
103939 2000 DJ_{69}	15.0	X	101.64108	283.17456	196.27342	1.89378	0.0393997	0.19206870	2.9750777	21	4 21.7	19.1
103940 2000 DM_{69}	15.0	X	85.76675	129.19226	168.10509	6.02146	0.0768494	0.21180861	2.7872353	21	11 24.2	19.0
103941 2000 DW_{69}	15.8	X	63.64793	230.13743	349.39875	9.59047	0.1956119	0.24385332	2.5373688	21	8 8.9	19.0
103942 2000 DE_{70}	14.8	X	245.98814	99.03767	161.00510	10.84380	0.0268462	0.18140588	3.0905455	21	1 12.3	19.4
103943 2000 DU_{70}	14.6	X	330.63732	285.40201	341.28959	9.08457	0.0374590	0.19302495	2.9652438	21	4 28.7	18.7
103944 2000 DE_{71}	16.2	X	216.25855	290.47534	317.66540	2.73327	0.1461620	0.26662026	2.3907855	21	—	—
103945 2000 DK_{71}	15.4	X	311.94953	54.91737	170.97668	13.72595	0.2172286	0.22986917	2.6392603	21	1 12.8	19.4
103946 2000 DG_{72}	15.0	X	198.36214	225.52362	51.95358	1.90606	0.0514232	0.17698391	3.1418120	21	—	—
103947 2000 DK_{72}	15.0	X	42.92965	325.21914	128.81032	2.06091	0.1319694	0.18264752	3.0765233	21	1 7.9	18.4
103948 2000 DP_{72}	16.5	X	139.37012	64.96014	84.74530	1.03278	0.1055781	0.24681558	2.5170258	21	7 22.9	20.2
103949 2000 DD_{73}	16.7	X	213.36372	203.28741	352.78570	2.11881	0.1171745	0.26130245	2.4231133	21	12 10.4	20.1
103950 2000 DK_{73}	14.7	X	301.95254	185.62188	147.58772	2.66287	0.0707653	0.19797686	2.9155898	21	6 15.1	18.4
103951 2000 DW_{73}	15.7	X	24.08698	253.98771	354.81224	5.38905	0.1817090	0.24160464	2.5530885	21	7 7.0	18.0
103952 2000 DA_{74}	15.0	X	272.75386	331.63454	345.55784	10.62607	0.0762803	0.19167070	2.9791948	21	4 12.4	19.4
103953 2000 DB_{74}	16.6	X	70.46886	300.83193	178.04240	3.21793	0.1188238	0.28106299	2.3081655	21	3 4.2	18.8
103954 2000 DM_{74}	16.4	X	353.11338	225.46040	315.56053	2.45502	0.0972819	0.27738317	2.3285343	21	1 18.4	18.8
103955 2000 DB_{75}	15.4	X	286.54869	276.77728	192.66709	4.05488	0.0713622	0.21459386	2.7630655	21	11 23.3	18.8
103956 2000 DR_{75}	15.6	X	214.28165	91.57965	143.69902	4.86285	0.1750638	0.21923998	2.7238899	21	—	—
103957 2000 DS_{75}	15.5	X	216.54032	250.00544	157.98151	6.73745	0.1298539	0.19953387	2.9004027	21	6 3.2	20.2
103958 2000 DC_{76}	14.7	X	306.84027	278.34221	1.45899	0.93648	0.1888791	0.18947756	3.0021395	21	3 26.7	18.9
103959 2000 DT_{76}	15.2	X	179.78271	45.19746	334.23221	4.98322	0.1683687	0.23646295	2.5899655	21	3 20.6	19.3
103960 2000 DD_{77}	15.4	X	349.79041	177.46715	5.66957	2.64265	0.0688605	0.18524376	3.0477101	21	2 10.6	19.4
103961 2000 DM_{77}	14.8	X	106.04807	318.14039	3.66222	5.20550	0.0750523	0.21793401	2.7347610	21	—	—
103962 2000 DZ_{77}	15.1	X	34.84183	312.44868	168.35502	2.22520	0.0619134	0.18364424	3.0653814	21	1 26.8	18.9
103963 2000 DT_{78}	15.2	X	315.13832	143.49885	46.69785	1.77882	0.1232684	0.18102122	3.0949221	21	—	—
103964 2000 DV_{78}	14.7	X	204.20568	167.53899	164.20210	9.54631	0.1298939	0.18440671	3.0569258	21	2 19.2	19.6
103965 2000 DW_{78}	15.3	X	217.68110	39.18815	153.40600	4.56783	0.0856329	0.21523612	2.7575662	21	12 7.5	19.3
103966 Luni	16.0	X	325.46257	318.20207	146.25047	3.48461	0.1271708	0.26746983	2.3857202	21	—	—
103967 2000 DP_{79}	16.0	X	265.49459	260.23016	4.15485	6.91785	0.0982772	0.27904856	2.3192604	21	1 18.3	19.3
103968 2000 DX_{79}	16.4	X	85.02718	104.75280	18.07132	3.00272	0.0332782	0.28519336	2.2858257	21	3 22.3	18.9
103969 2000 DB_{80}	16.0	X	291.97632	116.91157	22.29025	3.36439	0.1240135	0.26785442	2.3834360	21	—	—
103970 2000 DK_{80}	14.9	X	241.67476	121.56015	11.68448	8.18379	0.0949975	0.21467970	2.7623289	21	10 19.6	18.8
103971 2000 DW_{80}	16.4	X	280.55933	156.64869	42.80127	3.26607	0.1453080	0.27187946	2.3598539	21	—	—
103972 2000 DD_{81}	15.5	X	60.24365	132.83525	104.59456	5.97180	0.0839077	0.29489942	2.2353907	21	8 11.9	17.9
103973 2000 DL_{82}	16.1	X	310.38377	239.40844	355.10991	6.41276	0.0738369	0.28058539	2.3107840	21	2 4.7	19.1
103974 2000 DF_{83}	15.0	X	337.05858	175.13842	36.60985	2.21785	0.1549343	0.18758236	3.0223266	21	2 17.4	18.6
103975 2000 DO_{83}	14.7	X	277.26268	60.65225	355.57471	8.47776	0.0399391	0.20861081	2.8156468	21	9 5.8	18.4
103976 2000 DR_{83}	15.6	X	19.03306	120.60156	31.89761	4.94833	0.1258915	0.23351640	2.6117070	21	2 1.1	18.4
103977 2000 DS_{84}	15.2	X	50.55477	6.87991	342.24445	2.86631	0.0956084	0.21799684	2.7342355	21	12 18.9	19.0
103978 2000 DZ_{84}	14.8	X	263.96332	128.20298	131.03374	14.41978	0.1528403	0.23053253	2.6341949	21	1 12.7	19.0
103979 2000 DN_{85}	15.1	X	76.15058	351.27654	115.65616	9.40860	0.0578363	0.18947786	3.0021363	21	3 9.9	19.2
103980 2000 DT_{85}	15.6	X	273.92759	124.53872	129.03325	14.63720	0.0665873	0.23190930	2.6237590	21	1 23.7	19.4
103981 2000 DC_{86}	15.4	X	270.07845	168.95114	4.38219	10.16855	0.1374265	0.22135641	2.7064997	21	—	—
103982 2000 DE_{86}	14.1	X	208.63305	118.20017	122.08272	10.99592	0.1969085	0.17356099	3.1829853	21	—	—
103983 2000 DG_{86}	16.0	X	247.26675	113.14081	112.51300	6.59603	0.1451278	0.26979151	2.3720137	21	—	—
103984 2000 DH_{86}	15.1	X	285.40373	303.47763	1.36174	11.00193	0.2182394	0.23923122	2.5699469	21	3 22.9	18.9
103985 2000 DE_{89}	16.2	X	200.87083	27.30563	334.34265	2.89368	0.1672625	0.28514856	2.2860651	21	3 13.6	19.8
103986 2000 DB_{90}	17.2	X	119.66023	90.48767	207.73057	0.88290	0.1918812	0.26465074	2.4026323	21	—	—
103987 2000 DS_{92}	16.3	X	257.89011	192.53056	168.02778	4.78632	0.1973638	0.24493265	2.5299092	21	5 8.0	20.1
103988 2000 DE_{93}	16.4	X	214.68632	243.70195	345.19052	4.34872	0.1139412	0.26749281	2.3855836	21	—	—
103989 2000 DC_{94}	12.0	X	16.48881	329.45823	61.16544	3.06973	0.0726092	0.07957134	5.3534236	21	11 25.1	18.7
103990 2000 DS_{94}	14.0	X	358.64460	100.25487	336.18925	21.79375	0.0452364	0.17576417	3.1563306	21	—	—
103991 2000 DC_{95}	15.2	X	320.83819	61.67723	349.81509	8.39598	0.1139996	0.21468368	2.7622949	21	10 22.9	18.6
103992 2000 DG_{95}	15.7	X	226.11106	22.83757	358.79790	5.74947	0.1487083	0.29104633	2.2550766	21	5 1.2	19.1
103993 2000 DH_{95}	16.1	X	42.72152	62.43293	140.00438	7.76867	0.1746994	0.24101659	2.5572396	21	6 3.1	18.8
103994 2000 DQ_{95}	15.7	X	236.28060	243.66310	0.19114	7.15286	0.0788892	0.27153437	2.3618529	21	—	—
103995 2000 DX_{95}	15.6	X	291.61995	209.83200	10.33342	5.30841	0.0986092	0.22990028	2.6390222	21	—	—
103996 2000 DX_{96}	16.3	X	113.47482	271.79204	163.41658	5.60519	0.1315247	0.28445568	2.2897759	21	3 12.0	18.9
103997 2000 DV_{97}	16.3	X	211.66909	194.83113	42.30499	4.39256	0.1529761	0.26640904	2.3920491	21	—	—
103998 2000 DE_{98}	15.3	X	305.09782	189.64665	133.41244	13.59928	0.1193154	0.24492402	2.5299686	21	5 30.5	18.6
103999 2000 DB_{99}	15.7	X	101.18520	226.36038	115.20594	7.39489	0.1343213	0.26838070	2.3803192	21	—	—
104000 2000 DM_{99}	16.1	X	245.34422	25.17520	2.15116	10.29180	0.0886061	0.29308927	2.2445852	21	6 5.4	19.2