	Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
		m		°	°	°	°		°				
8001	Ramsden	13.2	X	85.38142	290.80461	8.41842	0.67807	0.1638543	0.17727656	3.1383533	20	12 4.6	18.1
8002	1986 XF_5	14.7	X	20.78227	195.90202	183.64998	1.86961	0.1779182	0.26389444	2.4072206	20	—	—
8003	Kelvin	13.7	X	312.42925	287.43903	73.89924	2.84331	0.1198844	0.29729113	2.2233854	20	8 29.2	15.4
8004	1987 RX	13.5	X	284.43299	174.34092	148.31344	1.90491	0.2488045	0.17440672	3.1726871	20	4 22.7	18.0
8005	Albinadubois	13.2	X	262.10368	166.98090	140.39056	6.79880	0.1500992	0.24199021	2.5503759	20	3 19.8	17.0
8006	Tacchini	13.1	X	145.78215	145.56706	149.11908	15.24806	0.0318327	0.22715427	2.6602479	20	—	—
8007	1988 RU_6	13.7	X	257.43989	25.15692	198.30352	1.82857	0.1447011	0.23057278	2.6338883	20	—	—
8008	1988 TQ_4	13.2	X	305.26245	257.32954	128.16898	1.34864	0.0791879	0.21253191	2.7809080	20	9 9.9	16.4
8009	Béguin	13.8	X	302.81665	167.63022	246.53718	36.47935	0.1595747	0.21353919	2.7721559	20	9 24.9	17.9
8010	Böhnhardt	12.5	X	263.62338	254.31719	222.20985	5.52948	0.1122230	0.17547849	3.1597554	20	10 26.6	16.9
8011	Saijokeiichi	14.2	X	52.57917	224.91455	236.36083	1.65138	0.1602143	0.23285973	2.6166147	20	2 5.8	16.8
8012	1990 HO_3	13.7	X	31.53379	357.52151	69.89726	2.62564	0.1674808	0.18125608	3.0922481	20	—	—
8013	Gordonmoore	17.0	X	68.09259	146.75789	105.55754	7.57081	0.4319541	0.30221624	2.1991635	20	11 7.1	21.0
8014	1990 MF	18.7	X	328.59814	114.40137	210.23562	1.86700	0.4561303	0.42698099	1.7466143	20	5 22.8*	17.1
8015	1990 QT_2	14.4	X	248.52001	36.58036	27.43758	0.82035	0.1501176	0.29301339	2.2449727	20	8 8.7	17.2
8016	1990 QW_{10}	14.2	X	288.76724	277.93437	3.47038	4.92433	0.1573940	0.28799388	2.2709830	20	3 10.2	17.2
8017	1990 RM_5	14.4	X	93.33661	309.65051	22.16160	0.68825	0.2412890	0.27262292	2.3555617	20	—	—
8018	1990 SW	13.7	X	163.17746	85.17052	205.64016	8.48372	0.1153309	0.27485713	2.3427793	20	—	—
8019	Karachkina	14.1	X	350.41408	231.16338	245.08682	4.16215	0.1486457	0.27030880	2.3689866	20	—	—
8020	Erzgebirge	13.7	X	74.00936	340.20025	26.53613	8.43453	0.1395682	0.27124748	2.3635180	20	—	—
8021	Walter	13.4	X	38.03055	162.68330	236.92197	23.80083	0.2239220	0.27038384	2.3685482	20	—	—
8022	Scottcrossfield	13.9	X	312.34025	286.93047	346.53948	3.41664	0.0033683	0.28438033	2.2901803	20	4 23.9	16.5
8023	Josephwalker	14.3	X	266.33042	93.46682	35.24423	2.46875	0.1346369	0.25935811	2.4352086	20	12 2.6	16.9
8024	Robertwhite	14.9	X	229.81354	161.19951	8.61248	20.33730	0.0584434	0.35727739	1.9669759	20	—	—
8025	Forrestpeterson	13.0	X	107.51012	262.09683	352.03382	4.38869	0.1147303	0.21737256	2.7394680	20	11 4.2	17.3
8026	Johnmckay	14.9	X	190.20278	145.87955	217.70063	19.93521	0.0751283	0.36903569	1.9249693	20	2 26.6	17.7
8027	Robertrushworth	12.4	X	64.03804	23.98513	256.32441	7.67750	0.1641739	0.17290801	3.1909938	20	10 18.4	17.0
8028	Joeengle	12.2	X	68.14016	310.31127	21.89854	23.31186	0.2082472	0.17885238	3.1198920	20	12 31.9	17.5
8029	Miltthompson	12.6	X	347.27952	23.09829	24.48179	6.53723	0.1315472	0.17658738	3.1465135	20	12 5.6	16.5
8030	Williamknight	11.9	X	353.87063	323.85678	10.71646	7.20523	0.0679346	0.16965735	3.2316248	20	9 11.7	16.0
8031	Williamdana	13.8	X	93.32609	115.62469	6.23853	7.60449	0.0625894	0.28387605	2.2928917	20	4 18.9	16.6
8032	Michaeladams	14.0	X	177.06444	217.10247	35.75249	9.15966	0.1751142	0.26717685	2.3874640	20	—	—
8033	1992 FY_1	13.3	X	349.31734	83.05426	49.63172	8.79143	0.0746963	0.27470216	2.3436603	20	—	—
8034	Akka	17.8	X	88.04313	68.15483	232.87265	2.02431	0.4092325	0.39812555	1.8300207	20	—	—
8035	1992 TB	17.1	X	79.45416	6.06994	185.63288	28.30362	0.4623072	0.63390068	1.3421114	20	9 22.2	18.8
8036	Maehara	12.8	X	150.47385	274.61547	61.60649	6.75866	0.1562098	0.18865657	3.0108429	20	1 15.9	17.5
8037	1993 HO_1	16.4	X	288.09639	105.74022	22.40817	5.90756	0.4185979	0.35220119	1.9858305	20	—	—
8038	1993 JG	14.3	X	1.53176	252.49719	58.63683	9.05957	0.1524894	0.29858788	2.2169434	20	9 27.2	16.3
8039	Grandprism	15.5	X	299.27322	103.09776	9.66144	2.88651	0.1502672	0.26252379	2.4155921	20	—	—
8040	Utsumikazuhiko	13.8	X	177.46648	194.19559	207.54417	5.89524	0.1731091	0.24241246	2.5474134	20	4 23.6	17.8
8041	Masumoto	12.5	X	133.88396	106.40297	247.59370	11.44986	0.1861042	0.23174809	2.6249756	20	1 14.5	16.5
8042	1994 AX_2	12.7	X	306.83851	260.52493	295.67189	11.49920	0.1032716	0.18811771	3.0165899	20	1 5.3	16.8
8043	Fukuhara	14.1	X	80.89357	344.60502	74.34084	8.44822	0.0974139	0.27658958	2.3329862	20	1 10.2	16.6
8044	Tsuchiyama	13.8	X	179.78567	319.97386	281.28448	2.51172	0.1306771	0.26539255	2.3981530	20	—	—
8045	Kamiyama	12.4	X	332.87784	248.52088	295.40179	11.96660	0.1376762	0.23523331	2.5989834	20	1 10.0	15.6
8046	Ajiki	13.5	X	261.75837	345.74493	130.70913	22.29414	0.0311029	0.26055470	2.4277471	20	11 30.3	17.0
8047	Akikinoshita	14.1	X	60.33718	250.94389	157.40971	3.61692	0.1679841	0.27075778	2.3663669	20	—	—
8048	Andrle	12.4	X	7.99681	59.71388	30.08284	10.01733	0.0756154	0.18968368	2.9999642	20	—	—
8049	1996 FL_2	13.0	X	234.77092	280.65228	340.17654	1.14323	0.0345480	0.19968290	2.8989594	20	1 6.1	17.1
8050	Beishida	15.3	X	206.65541	143.24294	213.58816	1.85669	0.1602047	0.31625937	2.1335711	20	3 19.6	18.5
8051	Pistoria	14.7	X	219.81287	229.44514	158.01501	5.52979	0.1416019	0.29092032	2.2557278	20	5 16.9	18.0
8052	Novalis	12.9	X	193.11167	71.87283	213.63651	9.02234	0.0487690	0.18671945	3.0316310	20	—	—
8053	Kleist	13.8	X	202.04186	262.49016	322.74710	1.57289	0.1609877	0.26744502	2.3858678	20	—	—
8054	Brentano	14.3	X	279.00312	334.27111	54.57557	2.82002	0.1257573	0.29425994	2.2386281	20	8 7.8	16.6
8055	Arnim	12.9	X	126.22050	123.06947	208.55455	11.02801	0.2183954	0.18598953	3.0395576	20	—	—
8056	Tieck	13.8	X	160.06089	58.63825	357.97332	6.98575	0.2075861	0.24026183	2.5625923	20	4 25.6	18.1
8057	Hofmannsthal	13.3	X	353.18735	107.37628	158.62950	4.40116	0.0352277	0.20423054	2.8557636	20	6 12.6	17.0
8058	Zuckmayer	15.1	X	250.78854	341.54047	37.02828	2.32141	0.2121946	0.29350299	2.2424754	20	5 29.3	18.3
8059	Deliyannis	11.9	X	237.71893	211.99658	54.25005	14.08883	0.1365262	0.23011606	2.6373722	20	1 6.5	16.2
8060	Anius	10.9	X	334.25449	33.28762	6.33618	7.08169	0.0920794	0.08317489	5.1976603	20	10 14.6	17.4
8061	Gaudium	13.3	X	329.30063	268.43388	114.88384	2.24439	0.1756873	0.17362607	3.1821899	20	10 4.7	16.8
8062	Okhotsymskij	12.8	X	297.12365	155.91301	329.19099	12.52298	0.1011730	0.26741390	2.3860529	20	—	—
8063	Cristinathomas	13.3	X	280.84443	146.40099	144.93033	2.63424	0.0546419	0.19494362	2.9457555	20	4 5.5	17.3
8064	Lisitsa	13.2	X	36.13630	285.53378	3.16729	7.55758	0.2069915	0.21219938	2.7838124	20	10 8.1	16.5
8065	Nakhodkin	14.2	X	81.02243	99.61285	126.72509	2.95164	0.1250277	0.29469035	2.2364478	20	9 14.7	17.1
8066	Poldimeri	12.6	X	41.25425	108.51652	189.81691	10.49952	0.0961400	0.17340791	3.1848583	20	10 5.2	16.9
8067	Helfenstein	12.7	X	192.66481	30.21267	344.67118	15.34292	0.1441804	0.23851084	2.5751190	20	3 29.8	17.0
8068	Vishnureddy	13.5	X	313.33541	259.33527	157.11586	3.39105	0.1985308	0.21575207	2.7531682	20	10 29.5	16.0
8069	Benweiss	14.0	X	14.83438	332.46663	162.35419	6.09240	0.0656663	0.27502514	2.3418251	20	1 7.0	16.6
8070	DeMeo	14.0	X	355.12764	235.93416	137.28090	2.64267	0.2479174	0.21502880	2.7593384	20	12 1.6	16.6
8071	Simonelli	14.2	X	6.84667	354.01235	160.98419	3.35043	0.0614503	0.27512619	2.3412516	20	1 23.2	16.6
8072	Yojikondo	14.4	X	231.49390	162.67103	11.96971	2.56718	0.1462021	0.26762120	2.3848205	20	12 13.7	17.3
8073	Johnharmon	12.9	X	129.12601	119.16764	296.16331	12.73236	0.1685323	0.23625174	2.5915089	20	3 18.2	17.1
8074	Slade	13.3	X	228.59264	141.77884	270.93416	7.73072	0.1478454	0.21147379	2.7901766	20	6 25.9	17.6
8075	Roero	13.0	X	7.14009	218.97607	154.23621	11.54148	0.2062880	0.17212114	3.2007118	20	12 4.7	17.0
8076	Foscarini	12.8	X	40.52987	336.19192	7.72366	0.28412	0.1766841	0.17183261	3.2042938	20	12 9.7	17.1
8077	Hoyle	12.9	X	351.03500	35.06680	135.74605	17.26381	0.2147286	0.23105095	2.6302531	20	1 10.1	15.9
8078	Carolejordan	14.2	X	331.41414	188.13931	179.57668	4.18517	0.2153369	0.26144814	2.4222131	20	10 11.3	15.6
8079	Bernardlovell	13.7	X	85.44464	94.91452	287.10887	2.54920	0.1933687	0.26945842	2.3739681	20	—	—
8080	Intel	13.0	X	262.56708	59.68309	306.27735	9.42787	0.2865134	0.20388381	2.8590004	20	5 14.9	17.7

* The additional opposition: 11 21.9, $V = 18.0$

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
8081 Leopardi	14.3	X	37.26194	28.50827	132.06089	12.27763	0.1711141	0.27839294	2.3229003	20	4 4.5	16.4
8082 Haynes	13.2	X	151.96133	87.09624	259.68115	13.57422	0.1497473	0.23263806	2.6182767	20	1 19.4	17.3
8083 Mayeda	13.4	X	292.16889	330.55999	43.70253	8.97550	0.2322138	0.21087053	2.7954955	20	7 12.8	16.9
8084 Dallas	12.9	X	296.52847	78.45419	72.36264	2.14918	0.2209327	0.18378168	3.0638529	20	—	—
8085 1989 CD_8	12.3	X	101.07176	136.26814	262.59265	9.34106	0.1122112	0.18858771	3.0115757	20	1 27.9	16.6
8086 Peterthomas	11.6	X	344.61032	287.83244	28.52686	12.11097	0.2100205	0.12518917	3.9575360	20	7 30.5	16.2
8087 Kazutaka	12.3	X	183.59712	315.74333	71.75283	16.27218	0.1468238	0.23974252	2.5662916	20	4 18.3	16.6
8088 Australia	14.1	X	193.29646	210.38473	169.15886	3.52493	0.1524888	0.28476814	2.2881006	20	4 8.7	17.6
8089 Yukar	15.0	X	53.25966	26.07938	35.82072	6.04239	0.2238363	0.27293324	2.3537758	20	—	—
8090 1991 RO_{23}	12.4	X	19.50598	355.43060	7.84899	15.91059	0.1262995	0.17408388	3.1766084	20	11 24.3	16.8
8091 1992 BG	13.9	X	280.76894	58.40946	146.88246	9.89903	0.1516859	0.27698296	2.3307767	20	—	—
8092 1992 DC_{10}	13.7	X	157.65788	96.78251	261.73390	3.67484	0.0722206	0.27926742	2.3180486	20	1 28.2	16.8
8093 1992 UZ_2	13.4	X	207.36889	337.10687	69.99808	3.12309	0.0736320	0.19961781	2.8995896	20	6 1.5	17.5
8094 1992 UG_3	13.1	X	208.49376	248.19137	151.66890	2.56763	0.0711032	0.19985588	2.8972864	20	5 25.3	17.4
8095 1992 WS_2	12.7	X	80.12675	277.34698	23.25094	1.10934	0.1638752	0.17639693	3.1487779	20	11 30.9	17.5
8096 Emilezola	13.8	X	71.82411	201.59736	127.32929	3.22049	0.2190972	0.26627807	2.3928333	20	—	—
8097 Yamanishi	14.0	X	338.30177	147.65860	256.29655	1.72959	0.1659593	0.25966933	2.4332624	20	12 17.8	16.0
8098 Miyamotoatsushi	14.6	X	335.63790	49.69753	355.61050	3.27192	0.1964485	0.25933364	2.4353618	20	12 17.9	16.6
8099 1993 TE	14.4	X	219.33286	162.77662	191.99208	8.74687	0.2775324	0.24344203	2.5402259	20	3 29.4	19.0
8100 Nobeyama	13.1	X	321.07380	269.79196	115.03390	3.30709	0.0824987	0.21523339	2.7575895	20	10 5.7	16.4
8101 Yasue	13.8	X	212.68587	317.26508	74.95772	3.40189	0.0590910	0.20201167	2.8766371	20	5 20.7	18.1
8102 Yoshikazu	13.5	X	225.21702	332.42068	108.88956	3.26653	0.0284726	0.20618436	2.8376941	20	8 11.8	17.3
8103 Fermi	13.5	X	286.72233	63.33451	185.40047	6.87150	0.0382356	0.19234898	2.9721869	20	2 19.9	17.8
8104 Kumamori	12.9	X	197.06999	345.69227	303.97580	9.50885	0.0804074	0.18701183	3.0284704	20	1 2.1	17.5
8105 1994 WH_2	13.9	X	146.98845	292.78001	156.51475	5.10782	0.0849370	0.28842647	2.2687117	20	5 20.4	17.0
8106 Carpino	13.7	X	137.17235	296.23761	296.12725	9.70363	0.2173609	0.26322701	2.4112880	20	11 13.1	18.0
8107 1995 BR_4	13.8	X	200.46631	341.40622	146.81675	7.14312	0.0940483	0.29406070	2.2396392	20	9 16.5	16.8
8108 Wieland	13.8	X	147.90106	7.33381	314.36383	6.74373	0.1235626	0.27023366	2.3694257	20	—	—
8109 Danielwilliam	14.1	X	67.33349	21.31551	113.97579	24.70322	0.1902880	0.27877349	2.3207859	20	5 5.9	17.3
8110 Heath	13.2	X	76.63854	70.55411	324.22927	3.67443	0.0778615	0.23102726	2.6304329	20	—	—
8111 Hoepli	13.4	X	73.21008	225.87370	174.75055	13.77765	0.1858652	0.22886259	2.6469933	20	—	—
8112 Cesi	13.6	X	59.57527	5.01147	123.45207	5.44705	0.0681857	0.19117076	2.9843865	20	3 23.2	17.5
8113 Matsue	14.2	X	308.68415	210.86293	80.72338	6.76543	0.1953293	0.28669970	2.2778120	20	4 18.2	16.7
8114 Lafcadio	14.7	X	147.11743	211.22739	102.73483	6.92975	0.1213624	0.27063923	2.3670579	20	—	—
8115 Sakabe	13.9	X	325.46163	257.69608	19.91477	4.46105	0.1498313	0.28879707	2.2667703	20	4 30.3	16.1
8116 Jeanperrin	13.8	X	270.78258	320.62239	48.96534	5.43194	0.1590254	0.29200832	2.2501212	20	6 18.4	16.6
8117 Yuanlongping	13.0	X	227.35261	294.93912	20.98418	10.45405	0.1157449	0.18680722	3.0306814	20	3 4.6	17.8
8118 1996 WG_3	13.0	X	294.04790	62.71038	207.62980	13.24076	0.1364085	0.23104098	2.6303287	20	3 6.8	16.8
8119 1997 TP_{25}	13.4	X	155.29790	260.17313	145.63856	0.61512	0.1730347	0.19381828	2.9571469	20	4 10.7	18.3
8120 Kobe	14.5	X	35.08830	231.33750	115.59314	2.58743	0.1861239	0.26156332	2.4215020	20	12 30.0	17.6
8121 Altdorfer	15.0	X	193.65807	114.01381	9.43349	2.68288	0.1007415	0.29433556	2.2382447	20	8 31.2	17.8
8122 Holbein	14.4	X	358.12881	178.90150	302.26336	1.53674	0.1648556	0.26870897	2.3783802	20	—	—
8123 Canaletto	14.9	X	145.29313	285.17417	177.41318	3.75570	0.1295958	0.28473458	2.2882804	20	6 8.1	18.3
8124 Guardi	15.3	X	100.56450	259.46921	103.78617	2.76813	0.0695263	0.31592112	2.1350937	20	—	—
8125 Tyndareus	10.8	X	0.61176	56.81356	323.11545	13.11367	0.0475187	0.08336927	5.1895779	20	10 21.8	17.6
8126 Chanwainam	13.1	X	250.33088	196.58308	300.12921	6.98144	0.1631386	0.21273609	2.7791283	20	11 1.1	17.0
8127 Beuf	13.4	X	18.26416	223.54071	331.64711	14.07705	0.0467551	0.24204160	2.5500148	20	4 4.5	16.7
8128 Nicomachus	12.6	X	226.85088	260.73166	326.90274	4.12370	0.1075353	0.17798618	3.1300062	20	—	—
8129 Michaelbusch	14.2	X	322.27931	159.61875	2.07413	2.48928	0.0542428	0.27113264	2.3641853	20	—	—
8130 Seeberg	11.8	X	143.92770	92.25413	113.57980	5.96450	0.1320178	0.12344086	3.9948158	20	10 5.5	18.0
8131 Scanlon	12.8	X	209.50899	34.26023	344.52401	7.35775	0.2038742	0.23996726	2.5646891	20	4 19.7	17.3
8132 Vitginzburg	12.1	X	298.40379	159.29944	73.43694	14.17514	0.1035024	0.23152135	2.6266892	20	2 5.2	15.9
8133 Takanochoei	12.6	X	169.23962	177.37406	89.73471	2.31284	0.1477227	0.17576616	3.1563068	20	—	—
8134 Minin	14.1	X	17.48788	158.89377	200.41344	4.30816	0.1917311	0.26084364	2.4259540	20	12 24.4	17.1
8135 1978 VP_{10}	14.2	X	59.21409	249.37631	80.60515	3.90022	0.0690068	0.25907141	2.4370048	20	12 20.8	17.3
8136 Landis	13.9	X	83.59687	124.61154	201.00754	3.83176	0.1184828	0.17525820	3.1624025	20	12 28.4	18.7
8137 Kvíz	14.8	X	177.66556	339.73284	359.92241	5.46987	0.2151865	0.27757193	2.3274785	20	2 7.9	18.6
8138 1980 FF_{12}	14.2	X	156.52199	252.02460	350.39766	2.87735	0.0873215	0.30788683	2.1720775	20	12 30.1	16.9
8139 Paulabell	14.5	X	218.02556	174.96145	269.31263	4.84086	0.0980211	0.29163769	2.2520271	20	8 3.4	17.5
8140 Hardersen	13.3	X	4.01956	194.92280	220.63405	6.80343	0.0693944	0.21810562	2.7333263	20	—	—
8141 Nikolaev	13.6	X	36.67713	55.61627	13.96477	7.52183	0.2916498	0.26664798	2.3906198	20	—	—
8142 Zolotov	13.7	X	55.62546	313.56386	46.62989	3.04716	0.2209769	0.26422337	2.4052224	20	—	—
8143 Nezval	13.8	X	308.77826	22.52909	52.78597	2.98218	0.1998435	0.25996402	2.4314232	20	12 2.6	15.5
8144 Hiragagennai	13.2	X	119.55684	348.17394	123.05104	3.01943	0.0529210	0.19650934	2.9300875	20	5 14.1	17.3
8145 Valujki	12.7	X	1.26220	104.55556	261.22198	8.80343	0.2338974	0.21501491	2.7594572	20	11 30.1	15.5
8146 Jimbell	12.9	X	250.93405	29.42093	76.77741	11.29964	0.2196371	0.21009383	2.8023810	20	9 24.7	17.1
8147 Colemanhawkins	14.1	X	117.88633	316.69083	42.82117	5.79212	0.3120676	0.22945366	2.6424456	20	1 24.2	18.1
8148 Golding	14.0	X	171.31954	190.46764	280.48488	0.56722	0.0567516	0.28923473	2.2644831	20	7 18.0	17.0
8149 Ruff	13.4	X	311.13016	170.29055	81.33600	6.58775	0.1431040	0.27849652	2.3223243	20	3 5.4	16.2
8150 Kaluga	12.5	X	92.72363	149.67757	116.52192	6.81540	0.1237922	0.17233954	3.1980072	20	11 1.6	17.4
8151 Andranada	13.5	X	76.58145	346.15581	257.91615	4.24660	0.1607907	0.29269943	2.2465778	20	10 4.6	16.6
8152 Martinlee	14.5	X	90.08070	74.69823	337.96151	3.98355	0.2222162	0.27218992	2.3580591	20	2 6.3	16.9
8153 Gattacceca	14.5	X	39.49708	16.82475	13.63610	2.33973	0.2189850	0.26589987	2.3951017	20	—	—
8154 Stahl	14.9	X	2.83031	170.50900	47.54667	1.56541	0.1389840	0.28129742	2.3068829	20	4 14.4	16.6
8155 Battaglini	13.7	X	78.95746	208.74295	154.24226	2.51882	0.2160298	0.22588964	2.6701675	20	—	—
8156 Tsukada	13.0	X	56.39670	245.95246	130.84936	3.40831	0.1002444	0.22238286	2.6981650	20	—	—
8157 1988 XG_2	13.4	X	269.56517	181.41784	264.47744	7.11238	0.1973325	0.21066322	2.7973291	20	9 15.2	17.2
8158 Herder	13.8	X	120.32330	116.89133	195.43799	3.10150	0.0594820	0.22881168	2.6473859	20	—	—
8159 Fukuoka	13.0	X	106.34912	279.01757	125.40906	12.40599	0.2939611	0.23172089	2.6251811	20	3 6.5	16.9
8160 1990 MG	14.1	X	79.91650	218.73149	88.67043	3.60930	0.1865919	0.30421342	2.1895278	20	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
8161 Newman	13.4	X	92.76481	253.55329	96.89509	2.53690	0.1693251	0.17473788	3.1686772	20	—	—
8162 1990 SK_{11}	14.3	X	253.99954	107.45617	270.96276	2.41834	0.1094257	0.29029238	2.2589795	20	6 16.2	17.1
8163 Ishizaki	14.0	X	128.78765	338.67938	205.31275	6.90370	0.1357110	0.29086043	2.2560373	20	9 7.7	17.5
8164 Andreasdoppler	14.2	X	130.36759	50.72782	98.57147	4.59925	0.0876394	0.28750591	2.2735518	20	7 23.1	17.1
8165 Gnädig	13.5	X	324.07834	177.72256	101.54846	7.58832	0.2131909	0.28644944	2.2791386	20	4 24.5	15.6
8166 Buczynski	14.6	X	301.93056	255.68182	266.94781	1.17201	0.1389870	0.26561208	2.3968315	20	—	—
8167 Ishii	13.4	X	339.59353	299.31956	127.36522	4.55947	0.1315373	0.26019120	2.4300077	20	—	—
8168 Rogerbourke	13.6	X	339.74982	270.37133	217.89146	21.17267	0.2898209	0.26602840	2.3943302	20	—	—
8169 Mirabeau	13.4	X	292.62572	359.74753	79.71013	2.16492	0.1159272	0.17624317	3.1506090	20	10 21.3	17.3
8170 1991 PZ_{11}	12.9	X	336.80216	284.29376	304.96139	11.60460	0.1254756	0.22840409	2.6505345	20	3 13.2	16.2
8171 Stauffenberg	12.9	X	213.87381	294.90162	340.58495	9.04286	0.0625214	0.18370972	3.0646529	20	1 3.6	17.6
8172 1991 RP_{15}	13.1	X	63.97411	15.26010	47.49673	1.44632	0.1516289	0.18327154	3.0695358	20	1 15.7	16.7
8173 1991 RX_{23}	13.3	X	117.47843	47.17298	355.30249	9.53649	0.0404263	0.18811262	3.0166442	20	2 16.4	17.6
8174 1991 SL_2	12.1	X	351.17187	334.92579	67.64008	10.32961	0.1420111	0.17422087	3.1749429	20	12 6.3	16.0
8175 Boerhaave	12.2	X	254.83364	232.99720	89.95736	11.03510	0.0482930	0.18907841	3.0063631	20	4 18.9	16.7
8176 1991 WA	16.9	X	182.88143	241.86589	66.53769	39.59830	0.6431879	0.49867454	1.5749179	20	1 2.7	20.4
8177 1992 BO	13.8	X	73.16743	213.78210	19.34959	4.75889	0.1105924	0.29344026	2.2427950	20	9 12.5	16.5
8178 1992 DQ_{10}	14.4	X	208.07883	39.58982	274.02374	3.55217	0.1904631	0.27862690	2.3215998	20	1 29.6	18.2
8179 1992 EA_7	14.1	X	145.81736	251.00655	31.02887	6.88417	0.1608708	0.26833380	2.3805965	20	—	—
8180 1992 PY_2	12.4	X	109.13519	133.01251	287.39859	14.35059	0.1059114	0.23146947	2.6270817	20	2 23.2	16.2
8181 Rossini	13.0	X	3.25104	127.89577	278.59241	5.12298	0.1036721	0.21655395	2.7463675	20	—	—
8182 Akita	12.9	X	235.40872	356.08927	16.84530	1.85783	0.0893917	0.20183506	2.8783149	20	5 18.7	17.2
8183 1992 UE_3	13.3	X	244.36342	324.93331	87.74560	3.08959	0.0686392	0.20410835	2.8569033	20	7 23.6	17.2
8184 Luderic	12.3	X	24.80187	73.05854	46.35107	10.78400	0.0468987	0.18762497	3.0218689	20	1 23.1	16.5
8185 1992 WR_2	12.8	X	53.23717	192.28828	67.02358	3.07535	0.0189996	0.20407246	2.8572382	20	8 26.8	16.7
8186 1992 WP_3	12.5	X	79.91018	108.11035	280.19644	9.50489	0.1246301	0.18493567	3.0510940	20	—	—
8187 Akiramisawa	12.9	X	183.01658	277.38180	83.05831	11.60915	0.1229637	0.19103884	2.9857603	20	3 17.0	17.8
8188 Okegaya	12.3	X	264.48438	54.58954	104.79602	12.12666	0.1343007	0.17572216	3.1568336	20	12 16.9	16.6
8189 Naruke	12.5	X	314.72403	14.44171	124.21922	1.78088	0.1558188	0.17711693	3.1402388	20	—	—
8190 Bouguer	14.3	X	274.04465	168.95776	284.66667	3.04182	0.1225004	0.30033554	2.2083347	20	11 7.7	16.2
8191 Mersenne	14.8	X	214.88581	109.88309	302.54669	2.82687	0.1097764	0.28933264	2.2639722	20	6 15.5	17.9
8192 Tonucci	15.3	X	244.68318	161.61489	337.40644	8.30012	0.0526638	0.29764991	2.2215983	20	12 5.5	18.0
8193 Ciaurro	15.9	X	217.61415	142.23636	316.75717	4.48576	0.1100945	0.28968606	2.2621305	20	8 23.1	18.8
8194 Satake	13.3	X	249.89287	285.94551	351.90595	6.11486	0.0285195	0.27506388	2.3416052	20	2 4.8	16.3
8195 1993 UC_1	12.6	X	359.17670	80.03691	261.28111	12.38488	0.1771984	0.25560085	2.4590151	20	10 21.9	15.2
8196 1993 UB_3	13.4	X	74.34676	172.48840	240.08130	5.61742	0.0866789	0.27151847	2.3619451	20	—	—
8197 Mizunohiroshi	12.9	X	257.48014	337.80432	90.66906	7.88438	0.1430188	0.21220447	2.7837680	20	8 22.4	16.8
8198 1993 VE_2	13.9	X	200.12977	118.90191	225.43496	13.39555	0.1898235	0.23865480	2.5740833	20	2 28.1	18.5
8199 Takagitakeo	13.6	X	270.36081	209.81344	78.44230	12.66190	0.1758888	0.23685663	2.5870949	20	3 6.6	17.7
8200 Souten	13.7	X	95.05566	296.17530	156.95160	1.60565	0.1257122	0.23218811	2.6216582	20	3 28.8	17.1
8201 1994 AH_2	15.7	X	169.35132	25.13002	164.10328	9.55143	0.7067971	0.24387808	2.5371971	20	10 9.2	21.6
8202 Gooley	12.8	X	69.14261	74.33434	118.73313	3.07999	0.0759455	0.19757883	2.9195042	20	6 27.7	16.8
8203 Jogolehmann	13.1	X	90.90262	329.22853	354.93618	5.06056	0.1212881	0.17616129	3.1515852	20	—	—
8204 Takabatake	12.9	X	314.90118	85.22026	85.01890	2.41716	0.1127730	0.18063804	3.0992973	20	—	—
8205 Van Dijck	12.9	X	47.46073	351.74286	141.22510	1.85957	0.1595254	0.17382015	3.1798207	20	3 21.6	16.8
8206 Masayuki	14.4	X	35.08269	73.87828	287.34940	1.46834	0.0461018	0.30601812	2.1809111	20	—	—
8207 Suminao	14.6	X	11.47136	294.57839	74.14780	6.68564	0.1756256	0.30326639	2.1940837	20	—	—
8208 Volta	13.9	X	279.82077	217.37749	96.89228	13.80892	0.2464494	0.24313950	2.5423326	20	4 10.6	17.9
8209 Toscanelli	13.3	X	259.15860	189.17384	72.60357	10.01149	0.1643957	0.23389084	2.6089189	20	1 19.7	17.5
8210 NANTEN	13.8	X	131.13836	212.55991	13.59984	7.13192	0.0938288	0.25484846	2.4638525	20	10 29.8	17.4
8211 1995 EB_1	14.0	X	51.85021	303.51356	116.74495	3.13149	0.1972640	0.26994586	2.3711095	20	—	—
8212 Naoshigetani	13.6	X	328.12600	91.97660	50.58714	2.97771	0.1505730	0.26749925	2.3855453	20	—	—
8213 1995 FE	13.6	X	332.89778	134.04039	6.78869	24.65180	0.2145388	0.26782231	2.3836266	20	—	—
8214 Mirellalilli	13.1	X	265.69742	1.30385	250.95116	14.33909	0.0532300	0.22979443	2.6398326	20	1 20.5	17.1
8215 Zanonato	14.2	X	321.83821	162.16227	60.91143	2.19904	0.0835245	0.27348474	2.3506104	20	2 17.9	16.9
8216 Melosh	14.8	X	271.21366	269.91418	76.28050	4.25829	0.2207778	0.24092507	2.5578872	20	5 9.2	18.5
8217 Dominikhašek	14.9	X	43.11981	134.84114	179.61012	2.37105	0.1746995	0.29211565	2.2495699	20	12 3.2	17.8
8218 Hosty	14.2	X	224.43223	108.77160	215.14933	3.27413	0.1597694	0.27956719	2.3163913	20	2 25.3	17.8
8219 1996 JL	12.5	X	286.44503	176.52882	208.35994	8.95614	0.1630124	0.21219378	2.7838614	20	7 26.1	16.2
8220 Nanyou	14.7	X	333.99315	122.33550	165.03203	3.72889	0.1338748	0.28924443	2.2644325	20	6 6.9	16.6
8221 La Condamine	13.4	X	288.14909	152.17468	182.50075	1.74845	0.0734387	0.20012315	2.8947063	20	6 6.7	17.3
8222 Gellner	14.5	X	109.39991	131.14816	162.76659	4.31255	0.1391725	0.30057001	2.2071861	20	—	—
8223 Bradshaw	13.5	X	75.12098	226.30772	117.10046	9.50677	0.2265801	0.21769078	2.7367977	20	—	—
8224 Fultonwright	14.1	X	8.49299	238.97699	107.34195	4.34436	0.1598670	0.21081144	2.7960178	20	11 6.1	17.4
8225 Emerson	14.1	X	199.61143	201.73039	136.76422	1.55254	0.2409015	0.19198306	2.9759624	20	2 29.4	19.4
8226 1996 TF_7	12.0	X	173.34449	196.60338	189.08424	10.07307	0.1086691	0.18873432	3.0100159	20	3 31.7	16.8
8227 1996 VD_4	12.9	X	147.10337	230.89841	80.18018	1.92250	0.1291662	0.17143821	3.2092062	20	—	—
8228 1996 YB_2	12.6	X	240.94565	231.49711	172.06090	12.28924	0.1859109	0.23827562	2.5768134	20	6 23.9	16.7
8229 Kozelský	13.1	X	162.11315	189.39056	186.28317	13.60986	0.2022268	0.18202265	3.0835602	20	3 13.0	18.2
8230 Perona	15.0	X	10.45710	339.37119	267.76309	2.51450	0.2332135	0.29487951	2.2354913	20	6 30.0	15.7
8231 Tetsujiyamada	12.9	X	302.47496	267.77185	63.57453	2.97397	0.0114111	0.20410341	2.8569494	20	6 30.8	16.6
8232 Akiramizuno	15.1	X	355.21702	54.34806	8.75277	2.86492	0.1497450	0.26288339	2.4133888	20	—	—
8233 Asada	14.0	X	356.34315	105.61467	34.03263	5.67031	0.1814111	0.26867001	2.3786101	20	—	—
8234 Nobeoka	13.0	X	82.33679	13.35509	184.34337	1.71168	0.0072747	0.20254652	2.8715708	20	7 11.1	16.8
8235 Fragonard	14.7	X	27.23478	206.76449	200.68111	2.91289	0.1189925	0.26694967	2.3888183	20	—	—
8236 Gainsborough	14.8	X	45.13121	98.02357	215.11541	6.88456	0.2210305	0.21533578	2.7567153	20	11 24.2	18.7
8237 Constable	14.5	X	307.08896	306.71727	35.19364	5.51455	0.1067804	0.29397171	2.2400911	20	7 17.9	16.7
8238 Courbet	14.1	X	230.04338	124.50263	15.09550	7.90784	0.1664975	0.21129117	2.7917840	20	10 13.4	18.2
8239 Signac	13.4	X	341.21668	347.89965	165.42591	1.26239	0.1161410	0.17630090	3.1499213	20	—	—
8240 Matisse	14.3	X	210.16967	73.69692	106.93799	4.14566	0.1445445	0.25481118	2.4640928	20	11 23.5	17.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
8241 Agrius	11.2	X	86.85749	264.66969	22.66941	4.34377	0.0436990	0.08430668	5.1510378	20	10 24.4	18.1
8242 Joshemery	13.0	X	336.70517	233.66757	25.76436	10.38721	0.0546635	0.19037989	2.9926460	20	5 7.4	17.0
8243 Devonburr	13.4	X	339.69595	249.19102	29.36525	8.47492	0.1361438	0.23638766	2.5905154	20	6 1.5	16.1
8244 Mikolaichuk	14.4	X	158.42899	187.54488	189.24111	5.24769	0.2086804	0.27466300	2.3438831	20	3 5.2	18.0
8245 Molnar	14.5	X	261.08108	256.72239	318.86085	1.45741	0.1434251	0.26317159	2.4116265	20	—	—
8246 Kotov	14.0	X	335.04489	2.17710	338.09210	2.57299	0.1615197	0.28814718	2.2701774	20	9 8.0	15.3
8247 Cherylhall	12.5	X	343.42735	283.27752	109.17412	2.71153	0.0982030	0.17057050	3.2200808	20	11 8.9	16.4
8248 Gurzuf	14.5	X	203.36694	195.82656	194.49872	2.23346	0.1430852	0.28072449	2.3100206	20	5 2.5	17.8
8249 Gershwin	14.7	X	340.94054	89.99149	98.87378	6.10213	0.1790937	0.26817292	2.3815485	20	1 15.3	17.1
8250 Cornell	12.1	X	84.26676	344.13499	335.60564	16.98000	0.2039747	0.17777200	3.1325197	20	—	—
8251 Isogai	15.3	X	251.00534	233.08767	169.20265	3.21049	0.2639597	0.29120255	2.2542700	20	6 25.2	18.5
8252 Elkins–Tanton	14.7	X	156.95566	216.63191	277.90289	3.68536	0.1149021	0.28466668	2.2886443	20	8 1.9	17.9
8253 Brunetto	15.4	X	165.79549	243.96209	232.01417	4.64640	0.1112942	0.28405710	2.2919173	20	7 16.8	18.8
8254 Moskovitz	14.4	X	222.19639	206.40771	183.84964	5.34356	0.0949574	0.28244313	2.3006402	20	5 26.5	17.6
8255 Masiero	14.0	X	159.90287	53.62924	283.58195	1.62361	0.0452560	0.22341161	2.6898758	20	1 10.5	17.8
8256 Shenzhou	13.6	X	288.13551	21.70906	42.18766	6.84501	0.2486126	0.30260591	2.1972751	20	10 4.4	14.9
8257 Andycheng	13.7	X	186.04986	193.18832	61.68212	6.76328	0.1753278	0.29990921	2.2104270	20	—	—
8258 1982 RW_1	14.4	X	254.38389	343.86254	11.13067	5.09221	0.1844337	0.27999724	2.3140188	20	5 3.4	17.6
8259 1983 UG	14.0	X	304.42134	302.05914	77.51223	5.78199	0.2220027	0.29121938	2.2541832	20	8 29.7	15.5
8260 Momcheva	13.8	X	150.12809	176.87043	114.59573	2.82713	0.1721562	0.31132657	2.1560488	20	—	—
8261 Ceciliejulie	13.3	X	224.11971	320.81774	359.07355	1.37977	0.1815434	0.18632703	3.0358861	20	2 28.6	18.4
8262 Carcich	14.6	X	63.27211	11.38228	10.40813	0.98643	0.2080236	0.26203271	2.4186092	20	—	—
8263 1986 QT	14.3	X	102.76188	163.15729	122.25114	2.83313	0.1589464	0.29738399	2.2229225	20	12 25.9	17.7
8264 1986 QA_3	14.3	X	95.77835	191.88667	96.97042	1.54983	0.1318293	0.29686586	2.2255082	20	12 22.5	17.5
8265 1986 RB_5	13.4	X	16.78194	210.20195	122.65267	5.67084	0.1789511	0.29350823	2.2424487	20	11 25.6	15.9
8266 Bertelli	14.3	X	202.63797	358.63446	349.55131	5.63559	0.1527854	0.27900403	2.3195072	20	3 8.1	17.9
8267 1986 TX_3	14.7	X	178.31279	311.75021	83.86325	3.19237	0.1526344	0.27947041	2.3169260	20	4 15.9	18.2
8268 Goerdeler	13.4	X	280.42156	16.29668	125.31881	5.23588	0.0481442	0.21544682	2.7557680	20	—	—
8269 Calandrelli	13.5	X	233.34888	240.04019	152.88121	9.21664	0.2093522	0.24115529	2.5562590	20	6 1.9	17.7
8270 Winslow	14.2	X	191.26842	281.88059	0.37113	4.43151	0.1701769	0.30579497	2.1819719	20	—	—
8271 Imai	13.5	X	63.04254	202.36997	140.39047	10.42070	0.2092000	0.26362384	2.4088676	20	—	—
8272 Iitatemura	13.3	X	56.01715	82.10874	356.72754	6.65107	0.1528609	0.26763696	2.3847269	20	1 2.7	15.5
8273 Apatheia	13.5	X	71.65354	174.78314	292.31293	5.04132	0.2386906	0.23443482	2.6048815	20	3 28.5	16.6
8274 Soejima	14.3	X	228.68298	314.64931	76.70425	3.72920	0.2016598	0.28746231	2.2737817	20	5 25.3	17.7
8275 Inca	14.6	X	8.53507	87.74291	86.96843	3.81794	0.0939996	0.31271784	2.1496493	20	2 16.1	16.4
8276 Shigei	13.6	X	325.09401	284.33745	261.30851	1.35767	0.1398656	0.26677331	2.3898710	20	—	—
8277 Machu–Picchu	14.7	X	270.87364	233.22767	297.84997	2.06767	0.0772800	0.25928719	2.4356526	20	—	—
8278 1991 JJ	12.3	X	345.61437	165.05979	62.47500	14.10586	0.1244038	0.23582964	2.5946002	20	4 8.2	15.4
8279 Cuzco	13.4	X	269.30224	21.37980	53.87349	2.80536	0.0314443	0.20712986	2.8290519	20	9 30.5	17.1
8280 Petergruber	13.8	X	20.19866	256.97602	109.84654	2.60240	0.2718410	0.17306499	3.1890640	20	12 24.9	17.8
8281 1991 PC_{18}	13.2	X	328.81057	125.30640	295.58515	6.19136	0.0793012	0.20979183	2.8050698	20	12 1.2	16.6
8282 Delp	13.4	X	63.52037	264.04033	144.49973	0.49280	0.1744587	0.18172504	3.0869259	20	—	—
8283 Edinburgh	12.8	X	359.69634	314.16503	71.09912	10.26203	0.0861766	0.20925868	2.8098322	20	12 2.5	16.3
8284 Cranach	12.5	X	351.59631	242.71678	279.73823	11.58773	0.1347802	0.18001462	3.1064488	20	1 20.5	16.4
8285 1991 UK_3	12.5	X	33.10806	267.77509	222.76504	13.44878	0.2558399	0.18058575	3.0998955	20	2 22.0	15.7
8286 Kouji	13.9	X	209.07219	283.08609	333.96386	6.14423	0.1012963	0.30655674	2.1783557	20	—	—
8287 1992 EJ_4	14.9	X	277.27158	151.80581	104.60318	2.31428	0.1123137	0.31445516	2.1417243	20	1 24.6	17.5
8288 1992 ED_{17}	14.6	X	88.11685	262.09986	58.76673	0.64451	0.1652856	0.30188551	2.2007694	20	—	—
8289 An–Eefje	14.2	X	208.22783	346.28729	267.64765	2.52707	0.1548868	0.30366473	2.1921645	20	—	—
8290 1992 NP	13.0	X	179.98553	52.96849	297.82160	11.86713	0.2000227	0.23409631	2.6073920	20	2 20.9	17.6
8291 Bingham	14.2	X	129.69012	149.06085	316.81937	3.94846	0.2279345	0.23599701	2.5933734	20	6 2.8	18.4
8292 1992 SU_{14}	12.7	X	21.40441	80.47069	353.94828	14.52939	0.1489893	0.21907241	2.7252787	20	—	—
8293 1992 UQ	13.1	X	30.84657	114.21182	173.88989	4.59464	0.1523134	0.24474318	2.5312147	20	9 28.1	15.8
8294 Takayuki	12.0	X	32.67914	230.06378	239.25707	9.08819	0.0709173	0.18798860	3.0179709	20	1 16.9	16.0
8295 Toshifukushima	12.9	X	334.00698	325.10275	77.70164	10.35453	0.1568509	0.21225276	2.7833457	20	11 21.2	15.8
8296 Miyama	12.7	X	217.03593	120.88370	332.91081	8.63223	0.2620939	0.19991836	2.8966827	20	7 28.5	17.7
8297 Gérardfaure	14.7	X	214.85127	326.35711	164.96260	3.59021	0.0619194	0.29451982	2.2373110	20	10 13.3	17.3
8298 Loubna	14.6	X	297.70884	160.66179	1.98541	3.82416	0.1136672	0.30446171	2.1883373	20	—	—
8299 Téaleoni	14.7	X	209.64893	81.83369	166.81320	4.46419	0.1131754	0.30500063	2.1857588	20	—	—
8300 Iga	14.3	X	126.69447	112.24708	307.50477	11.27865	0.1681373	0.23289618	2.6163418	20	3 22.6	18.4
8301 Haseyuji	14.8	X	57.19631	6.93916	127.36801	3.71544	0.0979366	0.27781113	2.3261424	20	3 20.9	17.2
8302 Kazukin	14.6	X	210.07572	285.98168	82.77231	5.36531	0.1620190	0.28181157	2.3040762	20	4 12.5	18.1
8303 Miyaji	14.5	X	272.93324	65.11336	53.35383	3.17585	0.0709035	0.29922766	2.2137822	20	12 19.8	16.5
8304 Ryomichico	13.8	X	121.60865	304.29398	310.97103	1.95925	0.1403108	0.25562535	2.4588579	20	11 27.7	17.5
8305 Teika	13.8	X	30.78646	279.46013	111.52584	5.66181	0.1057780	0.26273605	2.4142909	20	—	—
8306 Shoko	14.9	X	1.94090	143.37118	208.62709	4.77995	0.2203695	0.29370660	2.2414389	20	12 5.9	17.1
8307 Peltan	15.0	X	244.34522	255.59215	11.66563	5.20021	0.1080337	0.30957337	2.1641813	20	1 4.0	18.0
8308 Julie–Mélissa	14.8	X	244.80949	127.97147	184.09727	2.67196	0.1665749	0.28178519	2.3042200	20	2 29.9	18.4
8309 1996 NL_1	14.1	X	277.94870	74.84832	292.58754	3.20377	0.0808795	0.28657047	2.2784968	20	7 9.9	16.7
8310 Seelos	14.3	X	151.21051	311.00732	125.45622	5.13605	0.0699854	0.27764298	2.3270815	20	5 7.4	17.5
8311 Zhangdaning	14.9	X	53.51497	67.62165	160.17958	3.97787	0.0808849	0.28182626	2.3039961	20	7 29.6	17.6
8312 1996 TJ_{12}	13.0	X	202.13169	289.33292	38.71865	10.09322	0.0909342	0.18391686	3.0623513	20	2 25.3	17.9
8313 Christiansen	13.5	X	292.83936	251.09937	112.95140	14.70296	0.1700834	0.23358900	2.6111659	20	7 10.0	16.3
8314 Tsuji	13.0	X	194.35259	40.93118	165.40659	1.48208	0.1257015	0.17373798	3.1808232	20	11 24.8	18.0
8315 Bajin	14.7	X	155.62658	182.79929	85.54444	7.88174	0.1708183	0.29913272	2.2142506	20	—	—
8316 Wolkenstein	11.8	X	197.36701	52.68465	294.49175	9.54645	0.1248277	0.19036477	2.9928044	20	3 4.5	16.7
8317 Eurysaces	11.1	X	46.67680	114.60884	208.09770	0.94610	0.0465446	0.08070456	5.3031919	20	10 18.6	17.8
8318 Averroes	13.5	X	24.84579	297.29856	113.64321	0.51675	0.1609989	0.17348452	3.1839206	20	—	—
8319 Antiphanes	13.4	X	7.36931	11.80949	52.51326	2.35276	0.1801748	0.17346064	3.1842128	20	—	—
8320 van Zee	13.6	X	7.05902	222.02140	178.10157	2.43069	0.1930929	0.26022254	2.4298126	20	—	—

	Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
		m		°	°	°	°		°				
8321	Akim	12.8	X	358.84904	228.72489	304.79747	12.11527	0.1074410	0.22823983	2.6518060	20	2 8.6	15.9
8322	Kononovich	13.1	X	70.71178	206.91673	148.84425	1.81670	0.1484917	0.16999764	3.2273107	20	—	—
8323	Krimigis	13.3	X	36.96797	307.74899	131.97931	9.79923	0.2976235	0.22219850	2.6996573	20	—	—
8324	Juliadeleón	14.2	X	194.93139	127.03889	255.75464	7.31557	0.2024713	0.27964203	2.3159780	20	4 11.0	18.0
8325	Trigo–Rodriguez	13.7	X	224.46201	289.44578	5.92027	6.97904	0.0249069	0.17425382	3.1745427	20	2 10.9	18.4
8326	Paulkling	14.2	X	153.57542	296.36376	359.57940	2.14134	0.2019731	0.26650700	2.3914628	20	—	—
8327	Weihenmayer	14.0	X	327.27300	31.97452	201.83523	1.41734	0.1414886	0.22512361	2.6762213	20	3 8.2	17.2
8328	Uyttenhove	14.9	X	48.61357	199.72993	139.87187	5.53715	0.1078788	0.28356521	2.2945670	20	12 31.5	17.9
8329	Speckman	12.8	X	262.20768	139.73989	67.40550	2.30456	0.1263551	0.17390900	3.1787376	20	—	—
8330	Fitzroy	12.4	X	232.50807	224.88414	12.11275	5.35787	0.1021143	0.17396750	3.1780250	20	—	—
8331	Dawkins	13.8	X	336.54154	205.26191	96.50438	4.97450	0.0988294	0.28733632	2.2744464	20	7 8.8	15.9
8332	Ivantsvetaev	14.0	X	95.78772	176.70985	257.60795	5.27323	0.1443321	0.27101138	2.3648905	20	2 28.7	16.9
8333	1982 *VF*	12.9	X	169.17303	310.88984	11.76860	8.65457	0.1061413	0.21730485	2.7400371	20	1 10.9	17.2
8334	1984 *CF*	13.1	X	287.18137	53.91032	93.18262	10.13652	0.1012817	0.21208380	2.7848238	20	—	—
8335	Sarton	14.3	X	240.58273	280.72667	327.95085	3.24630	0.1073201	0.29576084	2.2310481	20	—	—
8336	Šafařík	13.5	X	233.78507	329.74580	343.84385	6.07654	0.3005233	0.18258022	3.0772792	20	2 24.2	18.9
8337	1984 SF_6	13.4	X	37.15827	310.39719	108.83829	2.70023	0.1643034	0.17277826	3.1925913	20	—	—
8338	Ralhan	13.7	X	91.81497	140.28314	91.73943	7.95501	0.1875327	0.29076083	2.2565525	20	10 13.6	17.2
8339	Kosovichia	13.2	X	33.60538	159.49731	214.96823	0.21773	0.1730163	0.17333510	3.1857500	20	—	—
8340	Mumma	12.1	X	358.59305	10.68187	278.66912	8.29050	0.0143779	0.19224532	2.9732552	20	7 19.5	16.2
8341	1986 *QQ*	13.9	X	195.04155	85.40505	358.85340	4.31820	0.1483572	0.28598110	2.2816262	20	7 5.6	17.3
8342	1986 QN_3	14.5	X	32.95720	288.87848	82.91925	3.12458	0.1441912	0.29668353	2.2264200	20	—	—
8343	Tugendhat	13.6	X	343.15568	226.33720	185.37775	1.87312	0.0690662	0.20627117	2.8368979	20	12 10.1	17.1
8344	Babette	14.6	X	27.38295	353.67769	145.57265	0.38517	0.1603406	0.26894776	2.3769721	20	2 2.7	16.3
8345	Ulmerspatz	12.7	X	144.38482	152.82053	277.26849	23.39514	0.2301916	0.27574666	2.3377382	20	4 25.1	17.0
8346	1987 DW_6	12.8	X	313.83281	179.26896	21.82716	1.54929	0.1390224	0.17531826	3.1616803	20	1 16.8	17.1
8347	Lallaward	13.7	X	340.35018	340.99984	312.84018	1.05097	0.0856263	0.24104599	2.5570317	20	7 1.1	16.3
8348	Bhattacharyya	14.3	X	304.47250	119.51844	290.82409	19.00360	0.0673501	0.38559603	1.8694521	20	11 27.9	16.0
8349	1988 DH_1	14.2	X	179.09004	51.15837	151.28015	6.58825	0.1123234	0.29365012	2.2417263	20	11 28.8	17.3
8350	1989 *AG*	13.3	X	61.19687	37.75337	94.94235	12.81322	0.1424053	0.22659778	2.6646016	20	4 11.9	16.7
8351	1989 EH_1	13.1	X	327.12482	345.63637	166.46352	4.26810	0.0707129	0.21686069	2.7437771	20	—	—
8352	1989 *GE*	13.7	X	357.92169	206.13523	52.79286	7.88863	0.1882951	0.28843538	2.2686649	20	6 10.6	15.0
8353	Megryan	13.4	X	15.47770	329.31246	272.99925	1.09033	0.0660814	0.19504248	2.9447600	20	6 13.9	17.0
8354	1989 *RF*	12.5	X	145.40053	112.48505	208.36057	4.35900	0.1465415	0.17233846	3.1980205	20	—	—
8355	Masuo	14.3	X	218.88261	196.39737	154.14177	7.70450	0.2883522	0.27610510	2.3357146	20	3 24.0	18.4
8356	Wadhwa	12.9	X	19.73522	45.94898	354.40062	23.07797	0.2939567	0.25999420	2.4312350	20	—	—
8357	O'Connor	13.8	X	357.86639	53.23254	283.29195	1.56344	0.1693098	0.28750600	2.2735514	20	10 23.5	15.7
8358	Rickblakley	14.9	X	60.22718	129.22954	308.89695	1.61209	0.1831293	0.26615738	2.3935566	20	1 12.8	16.6
8359	1989 *WD*	13.3	X	46.27034	128.63704	63.24216	7.63458	0.0651926	0.27358021	2.3500635	20	5 22.2	15.6
8360	1990 FD_1	12.3	X	7.21921	75.31316	104.75960	14.12118	0.1174343	0.22903847	2.6456381	20	3 10.5	15.5
8361	1990 JN_1	13.2	X	107.55491	29.05959	238.45908	1.22498	0.0179908	0.20717615	2.8286304	20	11 12.9	17.1
8362	1990 QM_1	13.4	X	53.77210	249.00715	147.04331	2.53634	0.1923516	0.17501144	3.1653745	20	—	—
8363	1990 *RV*	12.7	X	65.86058	350.99336	119.77449	2.66949	0.1448712	0.18246453	3.0785798	20	3 19.4	16.6
8364	1990 RE_5	12.4	X	45.34260	251.37156	332.57495	12.62644	0.1042075	0.19142679	2.9817249	20	7 11.8	16.4
8365	1990 RR_5	14.5	X	239.45008	175.66720	209.86257	1.68170	0.1444961	0.28917970	2.2647704	20	6 3.4	17.5
8366	1990 UL_1	14.1	X	263.50471	285.88648	106.34047	4.51268	0.1758696	0.29013703	2.2597858	20	7 9.0	16.9
8367	Bokusui	14.1	X	0.05208	352.80914	62.88309	5.40406	0.1290555	0.30063190	2.2068831	20	—	—
8368	Lamont	14.4	X	9.24598	25.05990	133.31540	1.34357	0.1460945	0.27029549	2.3690643	20	1 25.9	16.4
8369	Miyata	12.4	X	227.06883	0.71133	19.10938	15.61278	0.1238561	0.24018763	2.5631201	20	5 10.5	16.5
8370	Vanlindt	13.7	X	91.85063	74.04286	134.47928	11.27288	0.1224607	0.23960368	2.5672829	20	8 28.0	17.4
8371	Goven	13.9	X	185.45009	202.59309	115.88861	3.89180	0.0576905	0.22014009	2.7164599	20	1 17.9	17.8
8372	1991 VC_2	13.0	X	204.34038	197.91526	209.76857	9.24674	0.0874659	0.19152622	2.9806928	20	5 29.8	17.6
8373	Stephengould	14.1	X	263.80017	55.44201	88.85567	40.78403	0.5543901	0.16593888	3.2797239	20	10 25.3	20.1
8374	Horohata	12.4	X	15.48164	300.24540	98.53966	2.92269	0.1823317	0.17061539	3.2195160	20	—	—
8375	Kenzokohno	13.0	X	71.70110	146.14609	267.84904	0.80994	0.1475874	0.17691788	3.1425937	20	1 16.8	16.9
8376	1992 OZ_9	11.7	X	179.74685	257.56224	50.28685	3.50876	0.1979436	0.12364488	3.9904201	20	1 17.8	18.2
8377	Elmerreese	13.6	X	325.49592	294.81933	47.88653	9.71698	0.0979606	0.24328442	2.5413229	20	8 21.8	16.6
8378	Sweeney	13.6	X	237.00434	27.57679	11.18735	15.09125	0.2071194	0.23883174	2.5728118	20	6 8.9	18.0
8379	Straczynski	13.2	X	107.30732	68.76401	19.88305	10.25911	0.1916962	0.23036422	2.6354779	20	4 15.5	16.9
8380	Tooting	12.3	X	30.19346	95.44857	280.64306	14.02498	0.1537721	0.21632972	2.7482649	20	—	—
8381	Hauptmann	13.9	X	288.64488	271.03081	217.86786	7.16826	0.0863187	0.25465003	2.4651323	20	—	—
8382	Mann	14.2	X	191.31505	285.21065	109.45705	4.07027	0.1351898	0.23366103	2.6106292	20	4 29.1	18.4
8383	1992 UA_3	13.7	X	138.32717	352.98696	44.22588	3.93914	0.1002881	0.22769735	2.6560163	20	3 7.6	17.5
8384	1992 *YB*	14.5	X	283.38266	257.53601	143.27233	6.38973	0.1049010	0.27523839	2.3406153	20	9 3.4	16.9
8385	1993 *AN*	13.6	X	353.91592	7.00020	104.07888	2.62547	0.1652337	0.17901984	3.1179461	20	—	—
8386	Vanvinckenroye	13.4	X	324.67364	345.78422	357.83402	1.64232	0.0505589	0.19759327	2.9193620	20	8 13.9	17.1
8387	Fujimori	12.6	X	186.27531	267.31094	153.77005	10.80112	0.0980331	0.18966269	3.0001856	20	5 28.9	17.4
8388	1993 FO_6	13.1	X	310.27059	323.74821	67.86098	3.06030	0.0554886	0.19749535	2.9203269	20	9 26.4	16.9
8389	1993 FT_{37}	13.4	X	70.16101	0.60815	160.94393	2.57239	0.1448422	0.18559266	3.0438893	20	5 29.4	17.5
8390	1993 FE_{48}	13.0	X	335.99901	59.21448	196.17592	1.55150	0.0940130	0.18526717	3.0474534	20	4 30.1	16.9
8391	Kring	12.7	X	64.11546	323.60853	123.98550	3.01258	0.1133666	0.17879721	3.1205338	20	2 12.2	16.5
8392	1993 *OP*	14.1	X	228.86676	95.71320	286.02242	23.91599	0.1989353	0.28496786	2.2870314	20	5 8.3	18.2
8393	Tetsumasakamoto	14.2	X	308.41402	316.97603	23.11532	6.01097	0.1923150	0.28735637	2.2743406	20	7 2.1	16.2
8394	1993 TM_{12}	14.3	X	311.76329	295.77009	134.26350	2.45230	0.1145710	0.29556361	2.2320405	20	12 14.9	16.2
8395	Rembaut	14.6	X	261.09359	13.50804	104.52735	1.88122	0.0960207	0.29491741	2.2352998	20	11 25.5	16.9
8396	1993 UR_2	13.9	X	179.29455	354.81203	169.20485	7.09762	0.0787335	0.29085624	2.2560590	20	10 11.2	16.8
8397	Chiakitanaka	12.7	X	163.15094	143.46989	249.65759	12.94970	0.1759700	0.23727767	2.5840335	20	3 25.9	17.1
8398	Rubbia	15.1	X	60.52670	12.63850	187.98920	4.95929	0.1661867	0.27797639	2.3252203	20	7 13.9	17.8
8399	Wakamatsu	14.9	X	311.73490	136.61690	8.76971	1.17874	0.1225124	0.25995456	2.4314822	20	—	—
8400	Tomizo	12.8	X	178.41476	254.65321	126.48078	13.78684	0.1968681	0.23553476	2.5967653	20	4 5.3	17.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
8401 Assirelli	14.6	X	311.82503	53.21863	161.83566	9.19910	0.0670181	0.22675863	2.6633414	20	1 31.8	18.3
8402 1994 GH_9	13.4	X	78.77537	308.28102	207.39337	11.65344	0.2299566	0.23197360	2.6232741	20	6 14.9	17.1
8403 Minorushimizu	13.0	X	260.92432	152.93041	195.18396	9.48808	0.0952227	0.18981706	2.9985587	20	5 18.0	17.4
8404 1995 AN	13.8	X	56.31896	123.15109	343.82178	18.10488	0.0773799	0.35698760	1.9680402	20	1 25.3	15.6
8405 Asbolus	9.1	X	83.98265	290.31407	5.93752	17.62038	0.6220537	0.01291321	17.9934005	20	12 14.1	22.8
8406 Iwaokusano	14.3	X	291.04803	100.05395	132.37844	1.56723	0.1494685	0.26884677	2.3775674	20	1 11.3	17.7
8407 Houlahan	14.1	X	102.45135	112.62392	129.80678	6.97590	0.1290839	0.28406974	2.2918494	20	10 31.3	17.5
8408 Strom	14.0	X	350.20143	22.03852	202.66590	0.33234	0.0908898	0.18509236	3.0493718	20	4 11.7	17.6
8409 Valentaugustus	12.5	X	93.78522	101.51944	262.06985	4.33016	0.1553696	0.17175462	3.2052637	20	—	—
8410 Hiroakiohno	12.8	X	349.94321	299.51408	96.66772	2.74285	0.1734882	0.16988486	3.2287390	20	11 27.9	16.3
8411 Celso	15.0	X	305.22689	153.75993	142.76177	3.49271	0.1489537	0.27778720	2.3262759	20	4 27.0	17.5
8412 1996 TM_6	15.5	X	131.88842	335.14323	45.04518	2.21666	0.1950598	0.26798236	2.3826774	20	2 13.9	18.7
8413 Kawakami	13.6	X	130.74876	221.83388	43.72080	5.91003	0.1236905	0.29523004	2.2337215	20	12 27.3	16.8
8414 Atsuko	13.7	X	199.29431	194.46189	126.02112	2.20124	0.1052971	0.26746475	2.3857505	20	1 30.5	17.3
8415 1996 UT	12.5	X	51.29356	215.01541	162.57834	1.40570	0.1787062	0.17221821	3.1995090	20	—	—
8416 Okada	13.9	X	243.37957	130.50707	169.99360	3.31613	0.1956141	0.31200654	2.1529152	20	2 9.4	17.3
8417 Lancetaylor	13.6	X	154.12462	27.23035	262.51539	5.80470	0.1938629	0.29953175	2.2122837	20	—	—
8418 Mogamigawa	13.4	X	171.17966	308.32178	347.06510	3.09452	0.1093805	0.21570478	2.7535705	20	—	—
8419 Terumikazumi	13.3	X	214.00975	93.97979	169.13790	7.54716	0.0995406	0.21664125	2.7456296	20	—	—
8420 Angrogna	13.0	X	58.61621	269.15210	303.12133	11.87914	0.1343628	0.23453514	2.6041387	20	7 20.9	16.1
8421 Montanari	13.5	X	285.51418	290.43762	156.71795	2.34079	0.0329064	0.20244361	2.8725438	20	11 4.9	17.4
8422 Mohorovičić	13.8	X	320.65029	223.26735	96.29389	3.07536	0.1288910	0.19357418	2.9596324	20	6 27.5	17.4
8423 Macao	13.6	X	140.60770	241.97733	144.95124	2.38751	0.2558555	0.17826019	3.1267978	20	3 13.8	18.7
8424 Toshitsumita	13.8	X	227.17672	201.32951	157.87435	3.73001	0.1961512	0.26523061	2.3991291	20	4 14.1	17.5
8425 Zirankexuejijin	13.9	X	275.11726	12.92229	154.79736	3.65758	0.0668341	0.28931614	2.2640583	20	—	—
8426 1997 ST	14.7	X	206.83636	207.94080	210.46150	3.40214	0.0715493	0.28830705	2.2693381	20	6 17.2	17.7
8427 1997 TH_{17}	12.3	X	318.75750	346.87058	147.92678	10.54473	0.0909051	0.18181152	3.0859469	20	—	—
8428 Okiko	14.1	X	30.22661	239.61492	202.48618	1.57681	0.1833373	0.26888267	2.3773557	20	—	—
8429 1997 YK_4	12.9	X	233.90516	288.13661	10.17953	5.84495	0.1348339	0.18125819	3.0922241	20	2 16.7	17.8
8430 Florey	13.8	X	184.10243	109.73151	78.58492	3.67005	0.1030939	0.20965693	2.8062729	20	11 1.6	18.0
8431 Haseda	12.8	X	291.54123	219.89969	246.13496	1.60493	0.0493193	0.20972922	2.8056280	20	12 6.4	16.5
8432 Tamakasuga	13.5	X	313.80792	78.78193	86.29557	2.34880	0.1635745	0.17435329	3.1733352	20	—	—
8433 Brachyrhynchus	13.3	X	318.09921	158.58956	23.71682	13.14518	0.0657446	0.22073628	2.7115663	20	1 1.7	17.2
8434 Columbianus	13.5	X	163.34537	337.01550	118.12459	3.13087	0.2455339	0.19172810	2.9786001	20	6 17.9	18.8
8435 Anser	14.7	X	338.31252	19.18987	31.19783	4.79267	0.1683970	0.29794829	2.2201149	20	—	—
8436 Leucopsis	13.9	X	99.08683	303.10687	129.74641	4.20289	0.1232994	0.18098477	3.0953376	20	3 13.4	18.2
8437 Bernicla	14.7	X	3.10138	42.25464	230.49416	2.44643	0.0434573	0.24496883	2.5296600	20	7 7.9	17.8
8438 Marila	14.4	X	287.11228	275.74244	121.55410	3.15656	0.1582915	0.28851955	2.2682237	20	8 29.1	16.3
8439 Albellus	13.6	X	6.33256	66.18603	56.64678	0.98882	0.1423644	0.17563315	3.1579002	20	—	—
8440 Wigeon	13.2	X	122.43832	28.14526	284.22585	7.73571	0.1385725	0.21247327	2.7814196	20	—	—
8441 Lapponica	13.9	X	253.13034	86.67243	97.91603	4.99195	0.1389666	0.30412644	2.1899453	20	—	—
8442 Ostralegus	14.8	X	159.47729	36.45573	90.46608	4.76659	0.1455597	0.27000367	2.3707710	20	7 26.2	18.4
8443 Svecica	12.6	X	241.06616	15.72614	177.32147	10.44481	0.2387893	0.21160199	2.7890495	20	12 21.7	16.6
8444 Popovich	14.0	X	324.57437	347.01678	353.03033	1.94005	0.2694166	0.28864520	2.2675654	20	8 2.1	14.7
8445 Novotroitskoe	13.0	X	263.05559	327.30851	47.34731	2.83220	0.2038241	0.18521741	3.0479992	20	6 7.4	17.6
8446 Tazieff	14.7	X	123.27731	220.13342	142.44147	1.78966	0.1948151	0.26065052	2.4271520	20	1 12.4	17.7
8447 Cornejo	14.0	X	16.43192	277.74580	15.80300	7.13380	0.1179474	0.28041798	2.3117036	20	9 14.9	16.3
8448 Belyakina	14.0	X	247.55748	204.93233	221.32746	4.07975	0.0599839	0.28872808	2.2671314	20	8 22.6	16.7
8449 Maslovets	12.9	X	15.90538	187.85582	51.59912	2.87283	0.1545185	0.18610921	3.0382544	20	6 16.3	16.3
8450 Egorov	13.2	X	110.60762	35.17276	342.84070	4.87512	0.0882043	0.21611165	2.7501134	20	1 9.7	16.9
8451 Gaidai	13.7	X	92.93522	357.61164	5.41915	9.18987	0.1651350	0.21326304	2.7745485	20	—	—
8452 Clay	14.6	X	61.07485	346.23672	56.13739	2.20445	0.1687847	0.26378331	2.4078966	20	—	—
8453 1981 EQ	13.0	X	269.22460	230.49158	11.32827	10.74835	0.1359140	0.17193497	3.2030219	20	1 18.1	18.0
8454 Micheleferrero	13.5	X	39.40564	229.75022	21.72329	3.61413	0.0687264	0.23290155	2.6163015	20	8 6.8	16.8
8455 Johnrayner	14.3	X	72.97564	233.07315	271.63682	5.14532	0.1909469	0.22980385	2.6397604	20	5 16.1	17.6
8456 Davegriep	12.7	X	190.04244	27.68696	307.16165	7.82286	0.0369482	0.17508674	3.1644669	20	2 15.4	17.3
8457 Billgolisch	13.7	X	132.64356	158.46663	284.67539	3.86498	0.1654655	0.23050473	2.6344067	20	5 1.8	17.7
8458 Georgekoenig	14.8	X	223.89369	177.60621	298.57049	3.69433	0.1425580	0.28889716	2.2662468	20	9 18.3	17.7
8459 Larsbergknut	13.8	X	147.10753	253.50031	147.53060	1.87886	0.1877832	0.17875508	3.1210241	20	3 30.9	18.9
8460 Imainamahoe	14.8	X	12.95450	220.75446	165.68161	3.02541	0.1086341	0.29273458	2.2463980	20	—	—
8461 Sammiepung	14.7	X	99.48057	76.45167	11.43061	4.91062	0.1708906	0.22861314	2.6489185	20	4 3.0	18.1
8462 Hazelsears	15.1	X	66.92423	43.65219	174.39189	2.33198	0.0657327	0.23321820	2.6139329	20	7 28.7	18.6
8463 Naomimurdoch	14.2	X	341.86399	352.70435	138.00907	2.66870	0.1726324	0.17216811	3.2001297	20	—	—
8464 Polishook	13.4	X	267.29373	319.58001	9.51348	10.45865	0.1579678	0.22958883	2.6414083	20	4 17.9	17.3
8465 Bancelin	14.3	X	70.71848	266.94856	168.32548	6.39260	0.1551193	0.17505229	3.1648819	20	2 11.1	18.2
8466 Leyrat	14.7	X	5.07590	179.14353	156.82401	2.45853	0.2213260	0.23738430	2.5832596	20	11 1.4	17.2
8467 Benoîtcarry	13.2	X	353.18716	113.63462	1.82770	10.49560	0.0568884	0.17154970	3.2078157	20	—	—
8468 Rhondastroud	14.1	X	203.22730	182.22931	132.49741	2.84620	0.1898420	0.17408662	3.1765750	20	2 6.7	19.4
8469 1981 TZ	12.9	X	97.78330	350.89576	357.26823	9.16967	0.1596417	0.20996607	2.8035177	20	—	—
8470 Dudinskaya	13.8	X	30.81212	300.50889	33.75430	4.95707	0.1922300	0.28802237	2.2708332	20	12 15.4	16.7
8471 Obrant	14.7	X	67.58677	107.98921	254.41157	5.29029	0.2034958	0.30056552	2.2072081	20	—	—
8472 Tarroni	13.3	X	111.04912	126.61693	228.73136	11.93436	0.1951638	0.22273100	2.6953527	20	—	—
8473 1984 SS_5	13.3	X	178.28998	278.97127	83.36198	6.16875	0.1762560	0.17992328	3.1075000	20	3 14.2	18.5
8474 Rettig	13.7	X	162.15793	141.82903	132.62572	5.91142	0.1716301	0.29702766	2.2247000	20	—	—
8475 Vsevoivanov	13.0	X	126.88441	265.53717	118.42227	4.83621	0.2545690	0.18309038	3.0715602	20	2 28.5	18.0
8476 1986 QT_2	14.6	X	225.67478	194.09560	115.21058	2.22368	0.1536921	0.30891274	2.1672658	20	2 6.9	17.8
8477 Andrejkiselev	14.6	X	133.93719	170.96025	149.95151	2.16767	0.1611026	0.30129219	2.2036577	20	—	—
8478 1987 DO_6	12.5	X	206.74550	48.55926	327.89978	7.91554	0.1002301	0.18392221	3.0622920	20	4 19.1	17.4
8479 1987 HD_2	13.4	X	249.27149	78.42569	167.50420	1.32852	0.2277725	0.26028233	2.4294404	20	—	—
8480 1987 RD_1	13.7	X	96.60381	76.36966	10.48024	1.89427	0.1800274	0.22601394	2.6691884	20	3 30.8	17.3

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
8481 1988 *LH*	13.2	X	63.84115	326.65873	236.51377	5.93695	0.2086158	0.18647839	3.0342432	20	7 22.1	17.4
8482 Wayneolm	13.3	X	66.26564	225.32904	120.98827	3.10031	0.0794699	0.16180198	3.3353916	20	12 26.9	18.2
8483 Kinwalaniihsia	14.1	X	274.23820	226.84522	49.82347	7.41639	0.0806413	0.26688518	2.3892031	20	3 1.9	17.4
8484 1988 VM_2	13.6	X	219.71822	353.93741	53.62436	12.65400	0.2958572	0.23725600	2.5841908	20	5 30.9	18.3
8485 Satoru	13.4	X	292.86085	228.32810	345.22238	8.98356	0.1610083	0.21553817	2.7549894	20	—	—
8486 1989 *QV*	13.2	X	80.52874	35.83251	24.45616	23.61468	0.1403699	0.17563404	3.1578894	20	2 17.8	17.9
8487 1989 *SQ*	13.8	X	127.04107	108.04592	301.63768	4.25735	0.2322295	0.27106319	2.3645891	20	3 18.4	17.4
8488 d'Argens	14.5	X	83.28855	213.13722	80.20054	4.61119	0.0827361	0.29041280	2.2583550	20	12 10.4	17.4
8489 Boulder	13.3	X	303.99085	98.08572	146.55793	5.85527	0.1127393	0.17656237	3.1468107	20	2 29.6	17.7
8490 1989 TU_{10}	14.5	X	102.59335	231.44126	179.63049	6.11691	0.2498847	0.26883592	2.3776314	20	2 25.3	17.4
8491 Joelle–gilles	14.2	X	37.90975	142.99678	311.75115	1.86457	0.1559956	0.26274864	2.4142138	20	—	—
8492 Kikuoka	13.6	X	245.31582	107.21933	310.26440	14.36400	0.0827796	0.24405833	2.5359477	20	7 31.9	16.8
8493 Yachibozu	14.1	X	306.79786	217.49814	244.44635	3.11545	0.1682593	0.25311861	2.4750653	20	—	—
8494 Edpatvega	13.4	X	328.75188	128.38824	153.33549	11.94431	0.1705514	0.22683542	2.6627402	20	5 17.6	16.5
8495 1990 QV_1	13.8	X	332.02169	262.81217	118.99382	3.02993	0.0837872	0.19918896	2.9037499	20	10 15.5	17.4
8496 Jandlsmith	12.5	X	77.46036	54.48378	354.28647	10.62517	0.0871230	0.17841740	3.1249608	20	1 12.8	16.8
8497 1990 RE_7	13.4	X	209.74442	64.02869	358.41244	10.48989	0.1072565	0.19087453	2.9874735	20	6 21.4	18.2
8498 Ufa	12.7	X	248.74903	44.58982	342.60550	10.24191	0.1146217	0.18975307	2.9992328	20	6 18.7	17.3
8499 1990 SC_{13}	13.0	X	114.25973	331.20048	266.03100	0.90798	0.0102439	0.19899545	2.9056320	20	10 11.6	17.0
8500 Hori	12.9	X	254.75373	172.88190	209.12647	12.32562	0.1402532	0.18955596	3.0013116	20	6 15.5	17.5
8501 Wachholz	12.8	X	40.34451	181.33149	42.54797	10.81392	0.0644365	0.18709185	3.0276068	20	6 25.8	16.9
8502 Bauhaus	12.7	X	343.12071	83.11204	239.98812	9.46651	0.1059126	0.19080164	2.9882343	20	8 7.7	16.5
8503 Masakatsu	13.9	X	14.51276	307.49247	95.60749	6.69774	0.1688770	0.30037406	2.2081459	20	—	—
8504 1990 *YC*	14.2	X	357.65988	336.78524	82.04913	2.76479	0.1595523	0.29835128	2.2181153	20	—	—
8505 1990 *YK*	14.2	X	248.06511	322.83019	172.15920	2.29779	0.1572599	0.29311932	2.2444318	20	11 18.9	16.4
8506 1991 *CN*	13.8	X	177.95178	163.70754	1.10696	3.97882	0.0735133	0.28759528	2.2730808	20	10 8.4	16.6
8507 1991 CB_1	17.2	X	9.80464	345.76433	317.41711	14.58940	0.5947142	0.44980118	1.6870281	20	12 30.7	20.3
8508 1991 CU_1	13.7	X	173.40397	228.87113	276.49449	3.87451	0.1326390	0.28507328	2.2864675	20	9 1.8	17.1
8509 1991 FV_2	14.1	X	6.91024	240.74501	20.04741	4.89512	0.1818911	0.27572271	2.3378736	20	7 9.2	15.9
8510 1991 PT_8	13.6	X	106.32010	280.29228	154.63564	11.81136	0.1216202	0.19164569	2.9794539	20	3 24.2	17.9
8511 1991 PY_{10}	13.1	X	32.51629	226.79719	187.93214	9.16503	0.1526215	0.21368164	2.7709238	20	—	—
8512 1991 PC_{11}	13.0	X	176.40495	248.28256	146.05551	7.19849	0.1631132	0.22676348	2.6633033	20	4 16.3	17.4
8513 1991 PK_{11}	13.0	X	43.02611	131.93042	313.23142	6.83007	0.1771018	0.21668416	2.7452671	20	1 2.2	15.6
8514 1991 PK_{15}	13.9	X	334.62172	19.46089	320.74828	3.90807	0.2341806	0.23760409	2.5816663	20	8 24.5	15.7
8515 Corvan	13.3	X	303.29768	333.06134	337.65077	13.23413	0.1638285	0.23233529	2.6205508	20	5 6.2	16.8
8516 Hyakkai	13.3	X	81.73609	347.50943	51.43736	5.86160	0.1623614	0.21541843	2.7560101	20	1 7.4	16.6
8517 1992 BB_5	12.8	X	51.25128	316.48931	101.14456	6.89021	0.2130219	0.17385260	3.1794250	20	—	—
8518 1992 DM_6	12.9	X	222.36392	234.52543	115.85852	2.26171	0.1767890	0.18013195	3.1050997	20	4 3.9	17.9
8519 1992 DB_{10}	13.8	X	142.86730	126.56278	190.26870	5.99976	0.0681852	0.16831428	3.2487933	20	—	—
8520 1992 EC_{12}	13.0	X	178.67762	162.27338	162.19642	12.29309	0.0578898	0.17240368	3.1972139	20	1 23.1	17.9
8521 Boulainvilliers	14.3	X	18.04654	339.26926	37.73284	6.55094	0.1809602	0.29751622	2.2222638	20	—	—
8522 1992 *ML*	13.9	X	19.77454	345.77384	333.45154	1.81602	0.1529614	0.28946184	2.2632985	20	11 2.8	16.3
8523 Bouillabaisse	14.5	X	215.53344	210.78828	161.41318	4.54131	0.1287475	0.27362745	2.3497930	20	4 23.0	17.9
8524 Paoloruffini	14.4	X	292.71888	272.20300	344.03137	7.19066	0.1087140	0.27040784	2.3684081	20	2 19.6	17.5
8525 Nielsabel	14.3	X	354.22359	77.23527	83.03823	3.06293	0.1622581	0.26415274	2.4056511	20	—	—
8526 Takeuchiyukou	13.9	X	243.40558	151.24151	149.59605	6.21737	0.1397552	0.26770641	2.3843145	20	2 17.9	17.5
8527 Katayama	13.9	X	111.87669	285.74360	6.22689	7.42036	0.1827329	0.29014117	2.2597643	20	—	—
8528 1992 SC_{24}	13.7	X	154.38028	168.32325	236.97923	6.12543	0.1227340	0.26789771	2.3831793	20	3 30.5	17.3
8529 Sinzi	14.2	X	87.39020	169.01213	223.25093	5.61106	0.1454954	0.25848241	2.4407056	20	—	—
8530 Korbokkur	13.8	X	355.13693	250.75027	53.13287	5.15558	0.2600062	0.27798768	2.3251574	20	9 7.3	15.1
8531 Mineosaito	13.7	X	104.17909	283.85345	205.22266	3.26343	0.1210894	0.23130849	2.6283004	20	5 26.6	17.3
8532 1992 YW_3	12.5	X	302.29676	27.28701	87.39107	11.99438	0.2092811	0.21028960	2.8006415	20	12 24.4	15.2
8533 Oohira	13.2	X	326.59648	187.47006	326.00458	8.50963	0.0897020	0.21470037	2.7621517	20	—	—
8534 Knutsson	13.0	X	295.47886	17.73002	67.52398	2.97611	0.0409451	0.20150310	2.8814753	20	11 14.4	16.8
8535 Pellesvanslös	13.4	X	205.48100	117.47845	193.97168	0.59698	0.1594967	0.17612866	3.1519745	20	2 4.6	18.5
8536 Måns	13.2	X	354.69706	275.31387	4.07168	8.49203	0.0894018	0.18853271	3.0121614	20	7 3.0	17.0
8537 Billochbull	12.4	X	313.17360	97.86583	194.07764	9.93661	0.1044347	0.18622415	3.0370041	20	5 13.7	16.3
8538 Gammelmaja	12.2	X	318.49474	319.55399	350.10462	9.34823	0.0899230	0.18836539	3.0139449	20	6 14.2	16.2
8539 Laban	13.0	X	310.86299	289.89342	89.54335	3.14094	0.0855071	0.19552611	2.9399021	20	9 8.3	16.6
8540 Ardeberg	13.3	X	81.85848	16.72308	38.16625	4.71369	0.2150064	0.17884192	3.1200137	20	2 12.8	17.4
8541 Schalkenmehren	14.9	X	87.18082	272.97395	124.02069	2.77869	0.0493144	0.30620779	2.1800104	20	—	—
8542 1993 VB_2	14.1	X	196.28977	167.71454	246.42375	2.07086	0.0882572	0.28056230	2.3109107	20	5 28.4	17.3
8543 Tsunemi	14.1	X	47.29789	116.30936	212.35809	4.28512	0.1652296	0.29100195	2.2553059	20	12 24.6	17.2
8544 Sigenori	14.5	X	183.34387	317.27598	149.96840	0.95635	0.0844679	0.28084799	2.3093433	20	7 26.2	17.7
8545 McGee	14.8	X	166.50520	120.20789	273.22229	5.85166	0.1259144	0.27318375	2.3523366	20	3 26.7	18.4
8546 Kenmotsu	13.6	X	19.89214	230.17325	266.86574	4.41314	0.0478726	0.26462935	2.4027617	20	1 21.1	16.5
8547 1994 *CQ*	14.9	X	82.69521	154.49945	321.01017	1.76574	0.1620449	0.26956209	2.3733594	20	4 12.7	17.5
8548 Sumizihara	13.4	X	133.94413	352.27242	141.36673	7.63456	0.2573687	0.23609532	2.5926534	20	7 13.2	17.8
8549 Alcide	14.2	X	217.65605	64.87562	205.60309	1.87885	0.1860190	0.25907850	2.4369604	20	—	—
8550 Hesiodos	12.3	X	87.91311	336.09007	23.51444	2.87729	0.2602080	0.12563389	3.9481912	20	—	—
8551 Daitarabochi	11.2	X	159.53687	259.87688	52.21020	14.15570	0.1546897	0.12338500	3.9960215	20	1 4.4	17.5
8552 Hyoichi	14.0	X	236.17205	59.55513	27.64038	4.34477	0.1784721	0.21027953	2.8007309	20	8 15.6	18.2
8553 Bradsmith	13.9	X	99.47673	234.46326	54.20669	5.44750	0.1261696	0.29242296	2.2479936	20	12 24.7	17.2
8554 Gabreta	15.2	X	279.64120	13.43665	147.38673	1.93055	0.0923502	0.29927718	2.2135380	20	—	—
8555 Mirimao	14.5	X	340.40898	19.00804	216.58914	6.01484	0.0707708	0.27257005	2.3558662	20	4 4.3	17.0
8556 Jana	13.1	X	339.60938	256.79139	107.16936	5.36489	0.3589907	0.19841290	2.9113167	20	10 14.4	14.7
8557 Šaroun	15.0	X	15.13850	204.43394	124.91486	6.96257	0.1401925	0.28140274	2.3063073	20	11 9.8	17.6
8558 Hack	14.4	X	151.11172	307.33303	40.15357	0.28153	0.2185220	0.17884862	3.1199358	20	2 3.4	19.4
8559 1995 QM_2	13.2	X	143.06396	217.01988	109.01708	4.56765	0.0975024	0.21359966	2.7716327	20	—	—
8560 Tsubaki	12.6	X	353.54269	328.57360	350.28755	13.38798	0.0732013	0.19374476	2.9578949	20	8 26.2	16.3

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
8561 Sikoruk	13.3	X	179.16361	238.26704	139.58427	2.04990	0.2169936	0.18019549	3.1043697	20	3 31.3	18.7
8562 1995 SK_{53}	13.7	X	15.86422	315.01705	29.67624	10.59877	0.1330962	0.19748010	2.9204772	20	11 5.5	17.4
8563 1995 *US*	11.7	X	348.52050	353.69292	327.63655	21.51770	0.1228943	0.19239763	2.9716859	20	8 19.6	14.9
8564 Anomalocaris	12.8	X	115.05020	336.67115	6.97448	12.25942	0.1185977	0.16819712	3.2503017	20	—	—
8565 1995 WB_6	13.1	X	178.42528	128.21767	188.95533	8.56869	0.1464545	0.21135471	2.7912244	20	1 13.5	17.7
8566 1996 *EN*	16.3	X	317.13601	125.13710	164.12807	37.97718	0.4304645	0.53311998	1.5063275	20	2 19.4	18.3
8567 1996 HW_1	15.3	X	0.54638	177.24148	177.10909	8.44931	0.4491960	0.33691651	2.0454452	20	—	—
8568 Larrywilson	15.2	X	227.51201	242.43940	44.73030	0.87317	0.1009599	0.31104631	2.1573437	20	1 11.5	18.2
8569 Mameli	14.6	X	63.70398	26.26934	322.75594	3.40068	0.1276157	0.29641771	2.2277508	20	—	—
8570 1996 TN_{10}	12.5	X	175.07998	65.12454	359.27403	9.59604	0.0961564	0.19100692	2.9860929	20	5 16.3	17.3
8571 Taniguchi	13.3	X	298.37899	173.77657	261.47883	0.98988	0.0689629	0.20461189	2.8522142	20	11 3.5	16.9
8572 Nijo	15.0	X	104.65393	153.88240	190.36427	5.24988	0.1870385	0.29935769	2.2131411	20	—	—
8573 Ivanka	12.6	X	150.29201	82.33984	33.73710	13.51125	0.1279731	0.19098930	2.9862765	20	6 28.6	17.5
8574 Makotoirie	14.9	X	233.05948	88.86609	253.59902	1.23784	0.1820916	0.31383413	2.1445488	20	3 25.3	18.0
8575 Seishitakeuchi	14.7	X	94.41199	37.31696	295.51659	4.00646	0.2164998	0.29768484	2.2214246	20	—	—
8576 1996 VN_8	14.6	X	159.06877	346.27412	43.28794	3.03780	0.2083188	0.26871027	2.3783725	20	3 24.2	18.3
8577 Choseikomori	13.7	X	298.07365	112.78663	202.67634	6.39605	0.1982437	0.27759759	2.3273351	20	5 4.3	16.2
8578 Shojikato	12.3	X	238.65862	322.76422	56.50186	11.01926	0.0980282	0.18957123	3.0011504	20	5 29.2	16.8
8579 Hieizan	13.6	X	103.59738	150.95811	186.49447	1.93429	0.1906685	0.25224139	2.4808003	20	—	—
8580 Pinsky	13.2	X	150.50425	290.82503	108.68070	12.13809	0.1402060	0.17969078	3.1101800	20	4 3.1	18.3
8581 Johnen	13.5	X	287.59823	32.28711	74.93818	3.19768	0.0417528	0.20644456	2.8353092	20	12 2.3	17.2
8582 Kazuhisa	12.5	X	180.23475	292.24336	62.97757	4.10855	0.2236876	0.17907382	3.1173195	20	3 7.6	17.9
8583 Froberger	14.5	X	329.26633	127.89704	64.81971	1.53993	0.1388906	0.17282531	3.1920118	20	1 27.7	18.6
8584 1997 AN_{22}	12.4	X	340.47638	4.68064	293.57311	9.20743	0.0816986	0.18732020	3.0251458	20	7 5.1	16.1
8585 Purpurea	12.4	X	278.00928	232.26551	358.35965	9.52192	0.1673615	0.17074633	3.2178697	20	1 9.8	17.5
8586 Epops	12.8	X	231.31890	121.19876	149.46287	1.75395	0.1267261	0.17067329	3.2187878	20	1 13.3	17.8
8587 Ruficollis	14.4	X	31.10309	247.08263	294.87882	5.22142	0.0912579	0.27364334	2.3497020	20	4 10.2	17.0
8588 Avosetta	14.7	X	343.19159	238.25845	196.86832	7.53506	0.0658813	0.29946152	2.2126295	20	—	—
8589 Stellaris	14.7	X	56.06947	52.24723	340.19267	3.18510	0.0716995	0.30088881	2.2056268	20	—	—
8590 Pygargus	13.3	X	196.97065	155.67151	121.77330	1.87894	0.1209126	0.16986310	3.2290147	20	—	—
8591 Excubitor	13.0	X	223.67263	250.76510	82.04031	2.08242	0.1917477	0.17595615	3.1540343	20	3 15.2	18.2
8592 Rubetra	14.2	X	149.62148	241.35860	350.56852	6.18989	0.1318377	0.29104370	2.2550902	20	11 30.9	17.6
8593 Angustirostris	12.3	X	38.71066	140.05331	5.86273	12.61582	0.1131837	0.18082193	3.0971957	20	3 19.2	16.1
8594 Albifrons	14.5	X	0.73386	9.40786	68.06705	3.35266	0.1508239	0.25581210	2.4576611	20	—	—
8595 Dougallii	14.2	X	353.13317	91.93845	3.53209	7.32440	0.1334583	0.21576396	2.7530670	20	—	—
8596 Alchata	14.5	X	268.79844	322.50436	171.37994	5.40951	0.0717486	0.29759005	2.2218963	20	—	—
8597 Sandvicensis	13.2	X	297.77180	262.32000	3.25023	12.64037	0.1509429	0.22373506	2.6872827	20	3 9.8	16.9
8598 Tetrix	13.6	X	18.21587	188.12794	295.32358	0.55035	0.1422182	0.17611069	3.1521889	20	1 16.9	17.2
8599 Riparia	14.3	X	170.36948	319.76647	29.76534	3.46271	0.0965769	0.22033532	2.7148550	20	2 12.2	18.3
8600 Arundinaceus	14.4	X	322.75681	64.22248	71.80744	2.95869	0.1569335	0.25832652	2.4416874	20	—	—
8601 Ciconia	13.6	X	354.13332	340.38484	139.27185	6.41357	0.1102049	0.17520456	3.1630480	20	—	—
8602 Oedicnemus	13.1	X	307.37755	238.34651	353.84666	8.07247	0.1311876	0.26495498	2.4007927	20	2 5.4	16.2
8603 Senator	14.7	X	237.65692	130.73951	188.38195	3.67273	0.1964994	0.31311147	2.1478473	20	2 27.5	18.0
8604 Vanier	14.3	X	78.04687	226.80993	152.53433	4.40649	0.2182808	0.29663659	2.2266548	20	—	—
8605 1968 *OH*	13.5	X	217.74638	57.93370	267.05475	11.32595	0.1711109	0.22127181	2.7071895	20	2 21.3	18.1
8606 1971 *UG*	12.3	X	39.32687	170.96393	216.60177	11.87095	0.0466478	0.20471146	2.8512893	20	—	—
8607 1971 *UT*	14.6	X	198.28445	167.34266	227.43186	5.29664	0.1330773	0.27501345	2.3418915	20	5 3.1	18.0
8608 Chelomey	14.4	X	272.32298	352.60438	74.56318	11.07085	0.1343351	0.28838605	2.2689236	20	9 28.7	17.0
8609 Shuvalov	13.8	X	116.87914	279.12876	127.18643	9.13440	0.2906409	0.26373268	2.4082048	20	3 16.4	17.4
8610 Goldhaber	13.7	X	55.79172	19.89923	62.76729	3.99353	0.1691049	0.26099640	2.4250072	20	1 10.9	15.8
8611 Judithgoldhaber	13.8	X	249.56714	314.89713	19.95649	2.56630	0.2205947	0.26824829	2.3811024	20	3 31.8	17.7
8612 Burov	15.2	X	141.33740	85.82149	351.47592	4.73769	0.2041018	0.27253382	2.3560750	20	5 4.5	18.9
8613 1978 VE_{10}	13.9	X	230.99970	268.77988	58.85372	1.80359	0.2299041	0.17770953	3.1332538	20	3 12.9	19.1
8614 1978 VP_{11}	13.0	X	193.48259	259.08955	93.73995	3.11047	0.1948715	0.17632142	3.1496768	20	3 14.4	18.3
8615 1979 MB_2	13.6	X	260.85340	299.94484	140.50470	5.77462	0.2779054	0.24295529	2.5436175	20	8 23.3	16.9
8616 Fogelquist	14.6	X	296.84430	163.53605	186.32600	5.25094	0.1747629	0.27683826	2.3315889	20	6 26.9	17.1
8617 1980 *PW*	14.0	X	170.58151	55.39415	310.66293	4.01454	0.2139300	0.26142992	2.4223256	20	3 3.6	17.9
8618 Sethjacobson	12.6	X	74.37770	147.88437	265.58927	7.08169	0.0213084	0.17214276	3.2004438	20	1 5.3	17.0
8619 1981 EH_1	12.8	X	46.06664	353.87450	152.32817	6.91431	0.1645711	0.17809277	3.1287571	20	4 7.4	16.5
8620 1981 EK_5	13.8	X	281.99024	326.58362	294.49974	6.76027	0.1248776	0.17485523	3.1672594	20	2 19.2	18.5
8621 Jimparsons	13.4	X	254.24154	81.73151	220.48554	4.31442	0.1598164	0.17707473	3.1407376	20	3 6.2	18.3
8622 Mayimbialik	13.3	X	257.21025	90.98753	254.27390	3.87535	0.1761918	0.18104513	3.0946496	20	4 28.4	18.1
8623 Johnnygalecki	14.0	X	1.68576	338.47105	208.67840	4.80844	0.1017876	0.17603186	3.1531299	20	3 10.9	18.0
8624 Kaleycuoco	13.8	X	281.57652	46.50419	200.00110	9.06316	0.0275782	0.17485109	3.1673093	20	2 13.5	18.4
8625 Simonhelberg	14.5	X	271.69837	57.20011	326.47067	3.62973	0.0803401	0.23418551	2.6067299	20	7 21.2	17.7
8626 Melissarauch	14.3	X	227.83001	119.60722	175.53255	6.19320	0.0957454	0.17431811	3.1737622	20	2 7.0	19.3
8627 Kunalnayyar	14.5	X	7.26013	3.96816	307.77508	1.03611	0.1027405	0.23568958	2.5956281	20	9 13.1	17.4
8628 Davidsaltzberg	14.0	X	198.73854	188.61371	176.14068	12.37310	0.1991916	0.22858964	2.6491000	20	3 29.0	18.5
8629 Chucklorre	13.8	X	159.84004	191.87171	175.92923	5.44672	0.1738759	0.17609103	3.1524235	20	3 1.6	19.0
8630 Billprady	14.1	X	88.67702	232.68168	1.94439	3.88181	0.1422947	0.28591161	2.2819959	20	10 4.2	17.3
8631 1981 EK_{41}	14.6	X	68.78296	124.99672	192.04823	5.97682	0.0335180	0.29083001	2.2561947	20	12 19.4	17.4
8632 Egleston	14.3	X	353.59951	106.83017	177.94997	12.18292	0.1574622	0.23209694	2.6223447	20	7 9.7	17.2
8633 Keisukenagao	13.2	X	42.03363	138.00223	358.24613	8.88554	0.1684756	0.17679996	3.1439908	20	3 16.9	16.8
8634 Neubauer	13.3	X	55.68488	128.01260	36.24209	14.13630	0.1809203	0.22873476	2.6479794	20	5 13.4	16.3
8635 Yuriosipov	13.9	X	5.43863	336.76862	62.89097	3.88906	0.1705167	0.25925274	2.4358684	20	—	—
8636 Malvina	13.8	X	260.00376	292.97055	65.72433	3.18087	0.1050382	0.27500208	2.3419560	20	5 27.4	16.8
8637 1986 CS_1	14.7	X	47.86799	284.60074	169.85660	3.07671	0.1438378	0.25964263	2.4334292	20	1 10.0	17.0
8638 1986 *QY*	13.2	X	82.07622	60.31931	14.01931	5.06887	0.1479390	0.21777434	2.7360976	20	2 21.7	16.5
8639 1986 VB_1	14.7	X	22.70243	156.99651	259.85455	5.13032	0.1386332	0.29626039	2.2285394	20	—	—
8640 Ritaschulz	13.5	X	145.30037	267.15742	111.65940	5.51936	0.1396007	0.21639600	2.7477036	20	2 26.3	17.7

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
8641 1987 BM_1	13.0	X	136.43644	49.61513	93.06492	14.48485	0.1087772	0.18805689	3.0172402	20	7 17.1	17.7
8642 Shawnkerry	13.2	X	230.78809	339.55104	6.59928	5.27697	0.3141992	0.17636414	3.1491682	20	3 28.9	18.9
8643 Quercus	13.1	X	188.52900	70.65793	0.28358	12.98214	0.1546276	0.23925352	2.5697872	20	6 7.7	17.5
8644 Betulapendula	13.5	X	267.01309	296.44743	13.17169	5.30622	0.1721030	0.26927210	2.3750631	20	3 22.1	16.7
8645 1988 TN	13.6	X	115.98985	18.17395	12.62319	5.27788	0.0613143	0.26005496	2.4308563	20	1 22.1	16.7
8646 1988 TB_1	14.4	X	144.66039	145.01183	208.78952	4.97670	0.1488153	0.26000697	2.4311554	20	1 18.6	17.9
8647 Populus	14.0	X	291.88333	100.63897	312.97403	3.91232	0.1643054	0.28689993	2.2767521	20	9 29.6	15.8
8648 Salix	13.9	X	324.27372	216.44950	206.24583	3.68599	0.2405650	0.28988689	2.2610856	20	—	—
8649 Juglans	14.9	X	209.83081	135.91242	145.01753	5.90074	0.1125738	0.30070235	2.2065385	20	—	—
8650 1989 TJ_2	14.7	X	287.11867	109.74932	323.77682	4.95819	0.1298217	0.28709642	2.2757132	20	10 25.8	16.9
8651 Alineraynal	14.5	X	324.73927	106.12532	271.43165	2.03564	0.2780118	0.28360291	2.2943637	20	10 18.5	15.0
8652 Acacia	14.2	X	186.03200	350.55778	302.38286	1.85218	0.1708758	0.25440665	2.4667042	20	—	—
8653 1990 KE	12.8	X	279.96819	177.97725	189.69606	14.92965	0.1069653	0.23340815	2.6125145	20	7 4.0	16.5
8654 1990 KC_1	13.3	X	161.74498	58.03858	111.03627	14.46403	0.0914599	0.23952043	2.5678777	20	9 25.4	17.4
8655 1990 QJ_1	14.4	X	319.24362	53.67693	323.52002	4.58575	0.1630039	0.29666520	2.2265117	20	10 3.9	16.0
8656 Cupressus	13.1	X	257.08765	317.64832	123.75834	3.98227	0.1186719	0.19747790	2.9204989	20	9 8.2	17.0
8657 Cedrus	13.4	X	337.94219	58.84861	352.41487	1.71221	0.0588683	0.20284340	2.8687682	20	11 29.9	17.0
8658 1990 RG_3	13.1	X	10.44639	195.23996	182.84855	1.80257	0.0530671	0.20198650	2.8768761	20	12 3.1	16.9
8659 1990 SE_{11}	12.9	X	177.12240	2.01932	312.27805	8.30708	0.1481194	0.21212186	2.7844906	20	1 11.2	17.4
8660 Sano	11.4	X	58.91341	259.67687	85.75424	6.63659	0.0399578	0.16766598	3.2571625	20	12 13.8	16.0
8661 Ratzinger	12.3	X	176.91957	90.96749	38.06091	10.55646	0.0358510	0.18892560	3.0079839	20	8 16.3	16.8
8662 1990 UT_{10}	13.4	X	239.17427	267.60043	139.84594	1.30717	0.1552421	0.18934863	3.0035020	20	6 28.9	18.1
8663 Davidjohnston	13.8	X	252.94659	42.12570	98.77658	5.81055	0.1129437	0.29252797	2.2474556	20	12 12.2	16.0
8664 Grigorijrichters	13.9	X	343.43785	99.56340	142.54437	7.06666	0.0969536	0.27090000	2.3655386	20	4 21.3	16.4
8665 Daun–Eifel	14.6	X	85.08184	279.58409	206.58265	5.57281	0.0816420	0.27247555	2.3564109	20	4 18.9	17.4
8666 Reuter	14.3	X	246.86155	346.26828	115.68909	4.03740	0.1438487	0.28642441	2.2792713	20	10 2.6	16.9
8667 Fontane	13.9	X	39.10969	11.29857	51.63644	6.83311	0.1037023	0.26250383	2.4157146	20	—	—
8668 Satomimura	14.0	X	224.93089	194.89979	57.14880	11.08824	0.0973889	0.26134476	2.4228518	20	—	—
8669 1991 NS_1	13.5	X	225.62741	126.42338	172.96660	6.62548	0.1754563	0.25992332	2.4316770	20	1 28.8	17.5
8670 1991 OM_1	13.7	X	312.31227	333.85828	295.17774	1.53713	0.2043901	0.26676847	2.3898999	20	3 18.2	16.5
8671 1991 PW	14.7	X	185.02067	53.85879	268.27725	3.46317	0.2138515	0.25721571	2.4487121	20	1 23.7	18.7
8672 Morse	14.5	X	201.77029	147.28238	136.56638	3.39840	0.1616801	0.25608832	2.4558935	20	—	—
8673 1991 RN_5	13.4	X	138.78298	194.36562	162.19593	5.70608	0.0681637	0.21866419	2.7286695	20	1 12.5	17.2
8674 1991 VA_1	12.5	X	53.71488	65.21026	244.70865	10.24843	0.1028789	0.16991828	3.2283156	20	11 3.3	17.1
8675 1991 YZ	12.6	X	89.97726	219.22244	316.96226	10.03064	0.0366266	0.18781237	3.0198585	20	6 27.8	16.9
8676 Lully	13.2	X	165.02032	193.31371	229.74626	3.43538	0.1362099	0.18545513	3.0453940	20	5 8.8	18.1
8677 Charlier	13.1	X	332.26109	219.04424	137.30730	10.65454	0.0924946	0.19134322	2.9825930	20	9 10.9	16.7
8678 Bäl	13.6	X	262.38355	221.78286	57.39686	5.76687	0.1110292	0.17533651	3.1614609	20	2 25.7	18.4
8679 Tingstäde	13.6	X	231.61631	212.87650	180.19674	0.78226	0.1773752	0.18650750	3.0339274	20	6 1.5	18.3
8680 Rone	13.2	X	136.63351	0.76776	36.58597	5.90699	0.1641359	0.17785414	3.1315551	20	3 16.9	18.1
8681 Burs	13.0	X	217.81004	237.71812	151.41100	2.57053	0.1725409	0.18518240	3.0483833	20	5 15.8	17.9
8682 Kräklingbo	12.9	X	246.19596	161.11495	140.87333	0.98731	0.1518869	0.17710898	3.1403327	20	2 29.8	17.9
8683 Sjölander	13.7	X	1.81777	296.84194	183.18330	8.09609	0.1554717	0.17157190	3.2075389	20	—	—
8684 Reichwein	14.8	X	97.05230	204.01858	184.88116	1.23585	0.0427276	0.30923243	2.1657718	20	—	—
8685 Fauré	14.6	X	204.19178	310.74331	263.55388	0.89455	0.0462185	0.30054987	2.2072847	20	—	—
8686 Akenside	14.3	X	312.78807	268.53586	136.63369	7.70309	0.0930613	0.28670411	2.2777887	20	11 8.7	16.6
8687 Caussols	15.2	X	264.40351	173.99657	202.22316	2.52196	0.0715503	0.27900392	2.3195079	20	7 3.2	17.9
8688 Delaunay	14.2	X	35.82264	176.35928	151.76153	4.44657	0.1736280	0.28773186	2.2723615	20	12 11.6	17.1
8689 1992 PU_3	14.9	X	79.02041	247.94612	84.95672	2.11427	0.1624914	0.29207265	2.2497907	20	—	—
8690 Swindle	15.4	X	127.36308	13.44227	44.39536	1.90064	0.1720514	0.26691918	2.3890003	20	3 25.5	18.7
8691 Etsuko	13.7	X	87.91449	76.06699	308.08816	5.50042	0.1535434	0.25792739	2.4442056	20	—	—
8692 1992 WH	14.2	X	312.63457	76.44200	234.07558	5.21371	0.1274698	0.27287702	2.3540991	20	6 2.5	16.4
8693 Matsuki	13.0	X	170.83175	239.32253	127.70177	6.92791	0.1578031	0.26412291	2.4058322	20	3 4.9	16.7
8694 1993 CO	12.6	X	220.39431	35.19107	42.99526	2.54746	0.0709380	0.19677567	2.9274430	20	7 27.3	16.9
8695 Bergvall	14.4	X	20.25935	302.48318	57.80232	2.86417	0.0437327	0.20094894	2.8867703	20	11 22.1	18.2
8696 Kjeriksson	13.5	X	6.97629	345.82565	66.80604	6.01940	0.1306862	0.16945018	3.2342582	20	—	—
8697 Olofsson	13.6	X	252.07461	21.94453	287.51541	0.98816	0.1719691	0.18094996	3.0957346	20	3 12.4	18.3
8698 Bertilpettersson	13.0	X	322.43027	95.13375	1.21065	1.63293	0.0591475	0.20532111	2.8456424	20	—	—
8699 1993 FO_{48}	14.4	X	109.08082	5.92113	272.64513	0.20323	0.1121822	0.20063190	2.8898107	20	12 3.4	18.9
8700 Gevaert	12.8	X	0.45052	338.94943	160.03081	1.05053	0.1565211	0.17310941	3.1885185	20	1 6.2	16.5
8701 1993 LG_2	12.5	X	221.07793	123.82371	198.97948	6.72413	0.1468730	0.17544432	3.1601655	20	2 29.7	17.7
8702 Nakanishi	14.0	X	15.15981	197.29170	239.46277	4.55225	0.0993639	0.30002227	2.2098717	20	—	—
8703 Nakanotadao	14.5	X	97.12531	18.67493	151.63813	5.01260	0.0416665	0.27758384	2.3274120	20	7 2.5	17.3
8704 Sadakane	15.3	X	132.15439	92.09499	296.36228	3.48818	0.1808103	0.30648250	2.1787075	20	2 16.7	18.1
8705 1994 AL_3	14.2	X	153.39478	274.12141	187.79963	6.36328	0.0543255	0.27581941	2.3373271	20	6 12.0	17.3
8706 Takeyama	13.4	X	230.45398	45.51467	32.81645	8.58272	0.0845681	0.20473773	2.8510453	20	8 10.3	17.6
8707 Arakihiroshi	14.0	X	279.59393	270.74559	39.62026	0.56966	0.0559049	0.26996921	2.3709727	20	4 23.4	16.8
8708 1994 DD	13.7	X	38.20274	349.15351	135.43241	2.93811	0.1498017	0.22689170	2.6622999	20	2 12.9	16.2
8709 Kadlu	16.9	X	150.50898	153.59048	119.24707	3.51637	0.4893921	0.24505225	2.5290859	20	—	—
8710 Hawley	13.7	X	75.14821	132.95871	78.45645	15.14705	0.1575531	0.23328651	2.6134225	20	8 20.1	17.6
8711 Lukeasher	13.5	X	30.05837	17.87039	148.70719	27.21864	0.0611999	0.22223209	2.6993852	20	3 28.9	17.2
8712 Suzuko	12.6	X	285.75560	192.25629	105.51433	2.54262	0.1443605	0.17824331	3.1269952	20	4 8.3	17.0
8713 Azusa	13.9	X	225.78912	358.32729	73.99504	3.91685	0.1267117	0.29117971	2.2543879	20	7 25.9	16.9
8714 1995 OT	14.2	X	75.77830	269.16092	33.02650	4.14570	0.2046439	0.28592636	2.2819174	20	12 22.4	17.7
8715 1995 OX_1	14.6	X	325.41031	250.34862	69.81105	6.01886	0.2202073	0.27482419	2.3429665	20	7 1.6	16.1
8716 Ginestra	13.3	X	51.78840	275.93634	212.81484	12.82604	0.1132994	0.17612202	3.1520537	20	3 13.4	17.4
8717 Richviktorov	13.0	X	111.59831	250.07507	143.55813	1.72497	0.2013709	0.17380283	3.1800319	20	2 19.2	17.8
8718 1995 UC_8	13.3	X	236.70313	178.33354	204.75618	7.03762	0.1741543	0.18431485	3.0579415	20	5 26.0	18.1
8719 Vesmír	13.5	X	298.41131	109.98961	224.77995	11.85912	0.2052959	0.22935903	2.6431724	20	6 1.1	16.7
8720 Takamizawa	13.1	X	12.03127	187.29066	62.09154	4.55675	0.1283728	0.18253558	3.0777809	20	6 21.1	16.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
8721 AMOS	11.4	X	163.67633	84.06349	265.26672	5.44480	0.0275244	0.12846884	3.8898917	20	2 8.1	17.1
8722 Schirra	14.1	X	148.51640	49.03185	324.16702	5.84309	0.3005481	0.26737900	2.3862605	20	2 28.8	18.2
8723 Azumayama	14.7	X	249.07596	74.33760	23.99245	6.18186	0.1300643	0.28605532	2.2812315	20	10 1.8	17.2
8724 Junkoehara	14.5	X	118.57505	22.68703	13.27550	2.10258	0.2049212	0.26621060	2.3932376	20	2 20.5	17.8
8725 Keiko	14.6	X	163.27473	308.32478	85.08462	2.46651	0.1098124	0.31173396	2.1541700	20	3 23.9	17.3
8726 Masamotonasu	12.6	X	55.78462	201.89675	231.61685	8.70994	0.0785338	0.17470861	3.1690312	20	1 9.2	16.9
8727 1996 VZ_7	14.5	X	271.64112	262.69375	109.13571	4.16667	0.1275549	0.27985790	2.3147868	20	6 28.2	17.3
8728 Mimatsu	14.5	X	185.60789	270.86987	113.46812	3.02109	0.2212960	0.27057205	2.3674497	20	4 9.9	18.5
8729 Descour	14.9	X	65.41803	220.50792	222.92382	2.65592	0.0345190	0.26255652	2.4153913	20	1 15.6	17.7
8730 Iidesan	14.1	X	190.45143	130.03322	254.37287	1.24489	0.2241036	0.27097864	2.3650810	20	4 11.9	17.9
8731 Tejima	14.8	X	307.97609	301.90215	62.93042	7.30918	0.1223816	0.28048313	2.3113456	20	8 25.3	17.1
8732 Champion	13.9	X	304.17632	267.83919	134.38873	4.67585	0.0924888	0.28445778	2.2897646	20	10 17.7	16.2
8733 Ohsugi	13.5	X	46.64033	88.84807	335.13373	2.72517	0.0805337	0.21139557	2.7908648	20	—	—
8734 Warner	13.5	X	2.22055	296.44654	92.81956	3.33093	0.0486032	0.20287562	2.8684645	20	12 5.7	17.3
8735 Yoshiosakai	13.0	X	88.60038	341.57511	50.87241	1.94029	0.2123936	0.17245713	3.1965533	20	1 24.5	17.2
8736 Shigehisa	13.2	X	110.28573	185.53479	166.08407	2.78287	0.2606014	0.25261782	2.4783353	20	—	—
8737 Takehiro	12.3	X	301.97165	289.76448	348.49098	11.50812	0.1170388	0.17919753	3.1158847	20	4 3.7	16.6
8738 Saji	15.1	X	88.34781	258.10331	111.50230	0.33396	0.2308026	0.29712954	2.2241914	20	—	—
8739 Morihisa	12.3	X	253.15094	265.96892	63.03844	4.72947	0.2554781	0.17981859	3.1087061	20	3 31.5	17.5
8740 Václav	13.2	X	282.38632	231.01793	180.03345	1.87518	0.0041048	0.20064671	2.8896685	20	9 17.7	17.2
8741 Suzukisuzuko	13.1	X	113.79900	148.07471	338.50593	9.46797	0.0408473	0.18814620	3.0162853	20	5 21.7	17.5
8742 Bonazzoli	14.1	X	4.49079	334.20373	110.16223	2.85082	0.0765094	0.30370740	2.1919592	20	—	—
8743 Kèneke	11.5	X	213.66347	132.84955	147.99379	16.67015	0.1563814	0.12615858	3.9372366	20	1 13.4	17.8
8744 Cilla	13.4	X	109.40982	330.36355	94.22421	2.60711	0.1741223	0.17845794	3.1244876	20	3 22.0	17.9
8745 Delaney	13.3	X	105.44901	190.28606	301.90171	3.64685	0.0407864	0.22829487	2.6513798	20	5 19.7	17.0
8746 1998 FL_{68}	13.0	X	58.89678	98.31027	356.43115	4.82319	0.1617594	0.17495700	3.1660310	20	2 20.7	16.9
8747 Asahi	12.1	X	282.58461	151.73934	193.90542	12.23737	0.1445363	0.18518499	3.0483549	20	6 3.4	16.5
8748 1998 FV_{113}	13.4	X	216.47216	47.66741	263.51530	5.07370	0.1180140	0.26214385	2.4179256	20	2 4.1	17.1
8749 Beatles	14.2	X	294.50144	110.82406	336.54323	3.36542	0.1879253	0.29128018	2.2538695	20	12 1.4	15.7
8750 Nettarufina	14.0	X	173.94482	90.42734	193.82167	4.20413	0.1804299	0.25301357	2.4757503	20	—	—
8751 Nigricollis	14.1	X	106.30878	143.71323	148.78565	2.51490	0.0445801	0.19989300	2.8969277	20	12 12.7	18.3
8752 Flammeus	14.7	X	26.50199	227.48875	7.82627	3.02853	0.1917158	0.27673132	2.3321895	20	7 12.9	16.6
8753 Nycticorax	14.9	X	57.50580	80.69104	166.79728	2.84656	0.1906051	0.27892946	2.3199206	20	9 20.9	17.7
8754 Leucorodia	13.1	X	46.32165	6.57469	332.16928	1.23329	0.0783518	0.19936131	2.9020761	20	12 2.9	17.1
8755 Querquedula	13.1	X	64.45885	335.12455	65.44730	1.38553	0.1410326	0.17064545	3.2191378	20	—	—
8756 Mollissima	13.7	X	76.98289	327.25339	89.87356	0.66006	0.1510008	0.17170282	3.2059084	20	1 29.8	17.9
8757 Cyaneus	14.8	X	295.01091	137.58110	64.33584	1.95697	0.0636753	0.30362958	2.1923337	20	—	—
8758 Perdix	14.0	X	358.14075	348.53357	149.67082	5.47810	0.1144589	0.17109159	3.2135392	20	1 5.4	18.0
8759 Porzana	13.5	X	277.66298	305.58141	21.74355	13.75462	0.1928714	0.22655618	2.6649278	20	4 23.5	17.2
8760 Crex	13.7	X	318.92022	355.93981	268.07013	1.67425	0.0613704	0.18222244	3.0813059	20	4 19.1	17.9
8761 Crane	13.8	X	173.16591	5.14849	250.26750	3.16087	0.0906282	0.29358384	2.2420637	20	—	—
8762 Hiaticula	12.9	X	278.42693	315.07415	241.99341	1.82812	0.1502459	0.21640745	2.7476068	20	—	—
8763 Pugnax	13.5	X	251.05065	293.34793	346.55843	2.03501	0.0229714	0.21933862	2.7230732	20	2 15.7	17.2
8764 Gallinago	15.4	X	269.57551	292.87191	333.18913	2.22944	0.1598500	0.26472860	2.4021612	20	1 30.7	19.0
8765 Limosa	14.2	X	58.56779	69.67870	10.09374	1.89748	0.0371165	0.21882562	2.7273273	20	1 10.9	17.8
8766 Niger	13.3	X	249.04676	142.60774	227.97329	1.08732	0.1513402	0.18420729	3.0591317	20	5 24.7	17.9
8767 Commontern	14.0	X	84.99675	280.74710	177.69079	0.65835	0.1499344	0.17875507	3.1210242	20	3 30.1	18.3
8768 Barnowl	13.6	X	13.75849	281.77752	217.01646	4.43811	0.1066047	0.26130549	2.4230945	20	1 10.5	16.2
8769 Arctictern	13.3	X	296.75665	97.39175	187.94598	3.08467	0.0472894	0.22417243	2.6837862	20	4 17.2	16.8
8770 Totanus	12.8	X	51.23336	64.46930	74.10626	2.10224	0.1213528	0.17937904	3.1137824	20	3 30.1	16.7
8771 Biarmicus	14.1	X	74.34127	31.44931	16.78149	6.98168	0.0993306	0.26000948	2.4311398	20	—	—
8772 Minutus	14.1	X	230.57554	262.76355	68.09501	3.36313	0.2336341	0.26571500	2.3962125	20	3 11.5	18.2
8773 Torquilla	13.1	X	86.23132	124.48148	307.57042	8.91180	0.2200821	0.17754262	3.1352172	20	3 5.9	17.5
8774 Viridis	12.8	X	298.25474	356.71584	315.92238	8.71907	0.0850814	0.18391536	3.0623680	20	5 18.3	17.1
8775 Cristata	15.0	X	223.76657	76.16052	243.31537	6.97278	0.1250878	0.26435955	2.4043963	20	2 19.6	18.9
8776 Campestris	13.8	X	317.53224	339.05799	300.25626	3.44166	0.2055160	0.22353264	2.6889048	20	4 12.7	16.9
8777 Torquata	13.4	X	304.01604	52.61963	139.38026	9.88917	0.1340887	0.21552350	2.7551143	20	—	—
8778 1931 TD_3	13.4	X	36.01152	270.34401	42.16963	8.66964	0.2818403	0.27805275	2.3247946	20	12 2.3	16.6
8779 1971 UH_1	13.3	X	221.82305	254.23648	84.45030	2.81695	0.1973612	0.17372758	3.1809501	20	3 20.7	18.7
8780 Forte	14.6	X	186.09725	353.64323	302.35967	3.77666	0.2060364	0.29737817	2.2229515	20	—	—
8781 Yurka	14.6	X	57.40662	30.80161	159.00023	2.23359	0.1701572	0.27105505	2.3646365	20	6 23.9	17.1
8782 Bakhrakh	13.9	X	192.98568	24.75784	326.24621	2.20417	0.1990542	0.25909022	2.4368869	20	3 4.5	17.8
8783 Gopasyuk	13.7	X	146.84759	5.95199	193.41083	5.20694	0.1531568	0.28394464	2.2925225	20	10 17.8	17.3
8784 1977 RQ_{19}	15.0	X	198.27149	207.15680	159.05155	3.20253	0.0824553	0.26727779	2.3868629	20	3 28.4	18.4
8785 Boltwood	14.4	X	98.20695	161.30667	149.36223	3.39478	0.1737002	0.28781289	2.2719349	20	—	—
8786 Belskaya	13.6	X	81.77248	255.75870	147.35369	1.56393	0.1538852	0.17485835	3.1672217	20	1 18.9	17.7
8787 Ignatenko	12.5	X	136.33133	358.24834	47.78236	10.56889	0.1641049	0.17641401	3.1485747	20	3 28.9	17.5
8788 Labeyrie	14.7	X	95.58094	220.56745	283.26177	1.89468	0.1794549	0.27157707	2.3616053	20	6 12.9	17.7
8789 1978 VZ_7	13.9	X	313.44615	303.76215	23.13081	1.05435	0.2179756	0.18230384	3.0803886	20	6 12.1	17.3
8790 1978 VN_9	14.1	X	275.64997	260.44732	91.48331	3.61641	0.0888759	0.22736941	2.6585695	20	6 10.6	17.4
8791 1978 VG_{11}	14.1	X	265.38602	310.84735	64.18552	6.75016	0.2183972	0.22874257	2.6479191	20	6 8.9	18.0
8792 1978 VH_{11}	14.1	X	229.21151	304.99065	71.02950	4.55027	0.0937119	0.22587544	2.6702794	20	5 15.7	18.0
8793 Thomasmüller	13.7	X	308.18870	145.11246	288.46440	2.37885	0.1446752	0.24454140	2.5326069	20	11 23.8	16.2
8794 Joepatterson	14.9	X	13.99015	89.74559	272.29055	5.68009	0.2163378	0.28998805	2.2605597	20	—	—
8795 Dudorov	12.5	X	137.66083	24.34098	323.75805	10.65272	0.1699961	0.17246572	3.1964472	20	1 21.4	17.5
8796 Sonnett	15.5	X	325.65358	244.77933	222.01111	2.17074	0.0811934	0.29493114	2.2352304	20	—	—
8797 Duffard	13.7	X	356.31110	196.68435	92.08115	0.20371	0.1736311	0.18290442	3.0736418	20	7 18.8	17.0
8798 Tarantino	14.0	X	232.39853	288.20604	20.03784	5.25268	0.1803935	0.17582728	3.1555753	20	2 24.7	19.1
8799 Barnouin	14.5	X	288.37217	236.63117	175.37200	4.35954	0.1286719	0.23839614	2.5759449	20	9 17.4	17.5
8800 Brophy	14.5	X	56.51382	101.08619	349.10310	4.19413	0.1616729	0.17512921	3.1639552	20	2 10.9	18.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
8801 Nugent	13.5	X	214.03599	118.31477	245.51547	4.08798	0.0692552	0.17873541	3.1212531	20	4 15.4	18.2
8802 Negley	13.7	X	210.39246	209.23147	169.14262	9.94176	0.1204206	0.17997268	3.1069313	20	4 30.4	18.7
8803 Kolyer	13.8	X	178.73876	107.00315	235.59716	1.15070	0.1781830	0.17553975	3.1590202	20	2 17.9	19.1
8804 Eliason	11.9	X	297.68795	227.31914	43.87966	12.94074	0.0407549	0.17565811	3.1576009	20	4 7.9	16.3
8805 Petrpetrov	14.3	X	296.93724	186.29893	184.78808	2.77272	0.1540864	0.27506551	2.3415959	20	8 2.7	16.5
8806 Fetisov	13.2	X	57.08778	217.59955	198.80648	8.74673	0.1323149	0.20950041	2.8076704	20	—	—
8807 Schenk	14.0	X	256.84999	299.38822	77.21977	3.32128	0.0831204	0.27193014	2.3595607	20	6 21.1	16.7
8808 Luhmann	14.1	X	193.91162	294.62566	358.62273	4.10595	0.0429424	0.21163365	2.7887713	20	—	—
8809 Roversimonaco	13.5	X	123.17488	188.05690	201.50596	10.69269	0.2848285	0.21274083	2.7790870	20	2 28.3	18.1
8810 Johnmcfarland	13.1	X	9.73600	208.98615	76.99629	3.52670	0.1777817	0.18536434	3.0463883	20	8 13.2	16.4
8811 Waltherschmadel	13.9	X	85.52676	163.03173	273.03970	4.03214	0.0941018	0.21864133	2.7288597	20	2 17.2	17.5
8812 Kravtsov	13.5	X	338.81211	296.74686	33.57573	6.60028	0.2538274	0.23090769	2.6313409	20	8 22.2	15.4
8813 Leviathan	12.4	X	203.87681	274.29930	96.20904	21.09434	0.3215612	0.17559139	3.1584008	20	4 18.4	18.5
8814 Rosseven	12.7	X	204.26927	159.19176	208.69885	4.84621	0.1663208	0.17438999	3.1728900	20	4 8.2	18.0
8815 Deanregas	13.9	X	321.55352	292.01865	141.23879	5.79923	0.1375317	0.29158041	2.2523220	20	—	—
8816 Gamow	14.0	X	111.34467	359.99634	26.24917	3.10452	0.1896569	0.25598000	2.4565863	20	1 29.6	17.1
8817 Roytraver	13.8	X	238.07067	180.83347	90.37865	5.08287	0.1336441	0.30236560	2.1984392	20	1 2.4	16.8
8818 Hermannbondi	13.9	X	159.72493	250.20499	96.16162	1.77556	0.0809928	0.21195955	2.7859120	20	1 26.9	17.9
8819 Chrisbondi	13.7	X	180.92415	159.65070	179.26606	9.41271	0.1689842	0.21234368	2.7825511	20	2 10.6	18.4
8820 Anjandersen	13.8	X	236.81282	285.31638	94.12756	4.00415	0.0570713	0.27341030	2.3510370	20	6 2.2	16.7
8821 1987 DP_6	12.9	X	211.10804	327.56908	143.74664	6.13866	0.0995799	0.19139122	2.9820943	20	8 24.3	17.4
8822 Shuryanka	14.6	X	33.57000	298.10879	60.21775	3.04143	0.2597690	0.24423766	2.5347062	20	—	—
8823 1987 WS_3	12.7	X	327.73189	165.06415	243.58316	13.55738	0.2404089	0.23925701	2.5697622	20	11 29.9	14.4
8824 Genta	13.6	X	317.45635	195.50556	290.66280	7.00812	0.1717598	0.21024728	2.8010173	20	—	—
8825 1988 MF	14.6	X	354.36204	350.70696	110.16534	25.34694	0.0307253	0.38641604	1.8668064	20	—	—
8826 Corneville	13.0	X	228.32314	317.81697	23.23022	0.47966	0.1868831	0.17542560	3.1603904	20	3 27.9	18.2
8827 Kollwitz	14.6	X	10.89686	191.06082	149.67304	5.31038	0.1485950	0.27999831	2.3140129	20	11 19.2	17.1
8828 1988 RC_7	13.1	X	150.90305	207.56834	177.02083	10.89082	0.2226709	0.26378104	2.4079105	20	3 10.5	17.0
8829 Buczkowski	12.7	X	343.63352	33.95647	148.17061	2.88232	0.1034211	0.17122362	3.2118871	20	2 8.2	16.8
8830 1988 VZ	12.2	X	235.70349	311.22143	37.34339	9.74401	0.2341807	0.17403459	3.1772081	20	4 10.5	17.6
8831 Brändström	13.8	X	59.77862	187.62185	142.25319	3.10644	0.1223077	0.24251944	2.5466642	20	12 23.9	17.4
8832 Altenrath	13.9	X	237.42121	278.99021	184.25436	8.59432	0.1251126	0.23899222	2.5716599	20	9 14.3	17.5
8833 Acer	13.0	X	169.19350	48.70516	214.46845	9.66496	0.1302604	0.20229880	2.8739145	20	—	—
8834 Anacardium	12.7	X	68.20394	4.90442	105.12689	6.88866	0.1469155	0.17343659	3.1845072	20	3 25.4	16.9
8835 Annona	12.2	X	105.08039	0.16763	61.09208	7.90635	0.1189222	0.17343849	3.1844839	20	3 9.3	16.8
8836 Aquifolium	12.7	X	62.78607	35.53862	184.77164	9.77436	0.0384240	0.18397581	3.0616971	20	7 16.9	17.1
8837 London	15.0	X	243.46169	56.21268	162.07400	5.50211	0.1230716	0.29716746	2.2240022	20	—	—
8838 1989 UW_2	11.5	X	317.97229	57.23116	205.48640	11.10290	0.0016071	0.17701699	3.1414206	20	4 24.5	15.8
8839 Novichkova	12.8	X	216.23693	179.11182	212.96799	4.95836	0.1759541	0.18004318	3.1061202	20	5 17.6	17.9
8840 1989 WT	13.8	X	249.52412	70.20857	67.06912	4.42587	0.0322694	0.28856811	2.2679692	20	12 11.7	16.3
8841 1990 EA_7	13.3	X	43.75879	289.38282	351.01679	9.30607	0.0467179	0.24253481	2.5465566	20	9 18.4	16.3
8842 1990 KF	13.3	X	63.37367	208.09893	142.70671	11.23391	0.2192658	0.24354283	2.5395250	20	—	—
8843 1990 OH	14.0	X	299.17370	132.48548	216.94727	13.25845	0.3032306	0.22750352	2.6575246	20	6 5.9	17.3
8844 1990 QR_2	13.0	X	212.44998	324.49201	334.88551	4.42731	0.0615491	0.21394874	2.7686171	20	1 25.6	17.0
8845 1990 RD	13.3	X	10.14372	207.26417	176.51742	7.79952	0.2233168	0.20205947	2.8761834	20	—	—
8846 1990 RK_7	13.8	X	336.72018	358.07248	105.22506	2.08592	0.1335631	0.20641861	2.8355468	20	—	—
8847 Huch	13.5	X	178.92930	56.91624	216.31298	1.25658	0.0295120	0.20572879	2.8418817	20	—	—
8848 1990 VK_1	13.4	X	27.59267	350.96216	23.37461	3.01496	0.1467897	0.20008000	2.8951224	20	—	—
8849 Brighton	13.1	X	98.34219	97.74785	187.86724	9.98462	0.1033947	0.19779580	2.9173689	20	12 1.1	17.6
8850 Bignonia	12.8	X	319.43920	233.36960	118.20614	10.64774	0.0869571	0.19044151	2.9920004	20	8 14.1	16.5
8851 1990 XB	12.3	X	178.66321	25.29134	69.12956	10.49668	0.0665329	0.18437213	3.0573081	20	6 29.5	17.0
8852 Buxus	13.9	X	339.71615	350.99636	26.83791	4.12168	0.1807421	0.28494708	2.2871426	20	11 21.3	15.6
8853 Gerdlehmann	14.8	X	260.95021	60.44650	46.64043	5.29863	0.0920653	0.28771564	2.2724468	20	11 7.5	16.9
8854 1991 HC	13.8	X	138.97247	185.12768	88.72530	4.66059	0.1435159	0.28841947	2.2687484	20	—	—
8855 Miwa	14.3	X	155.36992	40.11990	191.16982	5.54123	0.1669544	0.28649285	2.2789083	20	12 5.2	17.9
8856 Celastrus	14.5	X	350.57111	179.97220	106.71652	2.42515	0.0976429	0.27390622	2.3481984	20	7 11.0	16.5
8857 Cercidiphyllum	14.8	X	251.29019	310.99265	346.48126	2.25612	0.1713454	0.26182455	2.4198910	20	2 20.1	18.6
8858 Cornus	14.4	X	312.78547	264.70704	10.78111	2.19321	0.1888673	0.26625635	2.3929635	20	3 31.6	17.2
8859 1991 PQ_{11}	13.4	X	61.91858	30.94989	307.80132	5.24192	0.0864297	0.24507195	2.5289504	20	—	—
8860 Rohloff	12.6	X	89.07998	295.25596	15.15501	13.95393	0.0928642	0.24281374	2.5446060	20	12 29.4	16.6
8861 Jenskandler	13.0	X	137.57513	315.43344	217.68143	10.95281	0.2050949	0.23475324	2.6025255	20	8 28.5	17.6
8862 Takayukiota	12.9	X	4.44948	213.04322	168.19330	5.56112	0.2121048	0.24082282	2.5586112	20	12 31.6	15.8
8863 1991 UV_2	13.4	X	249.36740	318.49189	59.33754	13.07061	0.2825343	0.22928413	2.6437480	20	5 20.2	17.8
8864 1991 VU	13.4	X	294.01860	141.28608	243.90844	6.97532	0.1529637	0.23323975	2.6137718	20	8 11.3	16.5
8865 Yakiimo	12.8	X	148.88272	262.54606	227.87116	7.84592	0.2299612	0.18751668	3.0230322	20	7 16.8	18.1
8866 Tanegashima	12.1	X	112.47670	109.14055	316.74565	11.64119	0.1718417	0.17934803	3.1141413	20	3 19.9	17.0
8867 Tubbiolo	13.6	X	302.82375	79.71568	38.88483	2.34801	0.0281862	0.20297506	2.8675276	20	—	—
8868 Hjorter	13.0	X	353.95824	162.94305	130.08122	12.19358	0.1017881	0.18571259	3.0425787	20	7 19.0	16.8
8869 Olausgutho	13.6	X	338.50022	141.56406	93.09865	1.90968	0.1279042	0.17814641	3.1281290	20	4 4.7	17.3
8870 von Zeipel	13.2	X	10.62630	326.45321	39.21846	1.97367	0.1357860	0.19588375	2.9363226	20	11 25.8	16.9
8871 Svanberg	13.0	X	10.54814	117.46057	142.35503	12.41784	0.0292487	0.18456496	3.0551782	20	6 28.3	17.3
8872 Ebenum	13.2	X	274.35354	103.44242	156.83268	1.43510	0.0933724	0.17087284	3.2162813	20	2 16.0	17.9
8873 1992 UM_2	14.7	X	268.36679	293.95171	69.99006	4.79426	0.1727192	0.27455354	2.3445060	20	6 4.6	17.6
8874 Showashinzan	14.3	X	90.98350	313.29747	29.02975	5.15738	0.1847970	0.29058282	2.2574740	20	—	—
8875 Fernie	15.0	X	342.23013	288.03992	83.22217	3.97520	0.2482412	0.28229390	2.3014509	20	11 27.1	16.3
8876 1992 WU_3	14.0	X	155.08374	65.50162	334.38674	1.75833	0.2028663	0.26462005	2.4028180	20	3 31.8	17.9
8877 Rentaro	14.2	X	352.91724	142.41121	330.82316	2.57758	0.0920790	0.21410274	2.7672893	20	—	—
8878 1993 FN_{16}	14.0	X	224.74816	167.87414	130.45259	5.08326	0.0704531	0.21393547	2.7687315	20	2 5.6	18.1
8879 1993 FN_{20}	14.4	X	155.21256	130.45572	276.22086	1.75444	0.0829821	0.22006394	2.7170865	20	4 3.4	18.3
8880 1993 FT_{33}	13.3	X	186.42556	259.34984	46.52105	4.48200	0.0819401	0.21057463	2.7981137	20	1 6.7	17.5

	Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
		m		°	°	°	°		°				
8881	Prialnik	13.9	X	123.08751	267.04463	168.13852	4.95589	0.0324502	0.21884941	2.7271298	20	3 29.1	17.6
8882	Sakaetamura	13.2	X	126.09367	291.12413	147.85171	23.07434	0.2095814	0.27112494	2.3642300	20	5 1.3	17.3
8883	Miyazakihayao	14.5	X	323.99673	343.13147	73.74082	2.46781	0.0216569	0.28760078	2.2730518	20	12 8.8	16.9
8884	1994 CM_2	13.8	X	324.48649	132.79608	295.20202	6.46214	0.0413262	0.28873343	2.2671034	20	12 27.0	16.1
8885	Sette	13.7	X	273.37765	147.34538	165.74388	12.97288	0.0844061	0.26671615	2.3902125	20	4 17.9	16.9
8886	Elaeagnus	14.9	X	126.54841	213.13399	117.97187	6.17798	0.1983381	0.29286575	2.2457272	20	—	—
8887	Scheeres	12.7	X	77.80517	180.51060	128.79323	15.90103	0.1290251	0.24011322	2.5636496	20	12 19.6	16.7
8888	Tartaglia	13.2	X	48.19487	46.11302	124.86205	14.10478	0.0935765	0.22114612	2.7082151	20	5 6.6	16.8
8889	Mockturtle	12.2	X	264.20610	59.70306	322.55127	11.97923	0.1376825	0.18576726	3.0419817	20	6 28.9	16.7
8890	Montaigne	13.3	X	43.04715	345.25771	159.40616	0.84660	0.1530958	0.17565035	3.1576939	20	3 28.1	17.0
8891	Irokawa	12.7	X	203.07726	191.00662	192.44811	9.39115	0.2268240	0.17674325	3.1446633	20	4 25.3	18.1
8892	Kakogawa	13.3	X	254.58758	333.05988	50.53883	1.08349	0.1952135	0.18154024	3.0890204	20	6 10.6	17.8
8893	1995 KZ	14.1	X	306.63881	154.68426	138.52783	24.38224	0.1934918	0.27395644	2.3479114	20	4 25.2	17.4
8894	1995 PV	14.0	X	76.40526	322.53813	342.79892	7.81700	0.1736752	0.28540479	2.2846967	20	12 25.0	17.6
8895	Nha	13.7	X	155.11782	135.45552	158.67983	3.95654	0.1738489	0.29214213	2.2494340	20	—	—
8896	1995 QG_2	13.6	X	10.92053	178.07339	75.11386	7.24395	0.0990894	0.27228438	2.3575137	20	6 26.8	15.9
8897	Defelice	14.3	X	250.33773	143.19125	194.46671	5.85235	0.1431129	0.26722555	2.3871739	20	4 12.6	17.5
8898	Linnaea	14.9	X	215.16402	132.37088	183.58467	2.99487	0.1930071	0.25953059	2.4341295	20	2 9.1	19.0
8899	Hughmiller	13.6	X	213.21181	293.13805	88.29570	12.48124	0.2760479	0.22543731	2.6737380	20	5 1.3	18.5
8900	AAVSO	13.4	X	67.91322	99.67521	232.23823	8.73188	0.1447693	0.24389012	2.5371136	20	—	—
8901	1995 UJ_4	11.8	X	121.76779	144.85519	48.67561	11.42648	0.0544064	0.18940365	3.0029204	20	9 4.7	16.4
8902	1995 UK_4	12.8	X	192.84099	73.72195	42.66439	9.75938	0.0348012	0.18843977	3.0131518	20	8 18.9	17.3
8903	Paulcruikshank	13.7	X	340.04424	159.11295	200.60075	13.19605	0.1555226	0.23444180	2.6048298	20	10 6.3	16.3
8904	Yoshihara	13.5	X	17.37968	289.02020	73.20093	3.79123	0.2628426	0.23915187	2.5705153	20	—	—
8905	Bankakuko	14.2	X	339.38018	279.54261	70.93544	5.69507	0.2694800	0.23395403	2.6084490	20	9 30.1	15.9
8906	Yano	12.9	X	113.41507	267.17410	146.89338	1.38963	0.2044861	0.17241012	3.1971343	20	3 16.7	17.7
8907	Takaji	13.1	X	353.02800	338.41074	340.37368	1.35932	0.0874879	0.18792680	3.0186325	20	8 22.1	16.7
8908	1995 WY_6	12.3	X	98.14631	165.53683	58.27577	10.98169	0.0390421	0.18966685	3.0001417	20	9 13.2	16.7
8909	Ohnishitaka	13.1	X	145.30248	260.31418	80.64208	6.44826	0.1327703	0.20857452	2.8159734	20	1 10.9	17.4
8910	1995 WV_{42}	12.9	X	221.27448	234.72713	108.05122	14.83773	0.2437121	0.17958058	3.1114522	20	3 27.9	18.5
8911	Kawaguchijun	13.0	X	72.83499	165.80321	73.77269	7.49175	0.0598567	0.18890721	3.0081791	20	9 2.4	17.3
8912	Ohshimatake	13.2	X	228.66141	180.18787	182.31873	1.88797	0.2007705	0.17798443	3.1300267	20	4 21.7	18.2
8913	1995 YB_2	12.6	X	315.36946	245.75020	309.73395	1.85931	0.1296689	0.12493411	3.9629205	20	1 21.5	18.0
8914	Nickjames	12.7	X	306.74190	288.88930	86.14859	11.16736	0.0973050	0.18965501	3.0002665	20	8 28.1	16.7
8915	Sawaishujiro	11.5	X	313.02164	326.95602	245.17479	3.68923	0.0520251	0.12629867	3.9343247	20	2 14.6	16.9
8916	1996 CC	13.6	X	186.42140	328.08404	61.24960	19.48087	0.1294911	0.22219120	2.6997164	20	4 23.2	18.0
8917	Tianjindaxue	11.3	X	334.24406	169.59155	263.42968	15.48134	0.1184450	0.15680870	3.4058272	20	12 10.9	15.4
8918	1996 OR_1	13.9	X	173.94619	169.44782	3.09885	5.94339	0.0768184	0.28352572	2.2947801	20	10 12.7	17.0
8919	Ouyangziyuan	13.3	X	346.40094	205.94789	15.83665	12.99579	0.1345364	0.23217809	2.6217336	20	3 26.1	16.0
8920	1996 VZ_{29}	14.8	X	121.11543	28.34802	97.04457	3.37355	0.1636541	0.27187660	2.3598704	20	6 15.2	18.2
8921	1996 VH_{30}	13.8	X	9.44107	72.26393	52.36087	8.09960	0.1477356	0.25833138	2.4416567	20	—	—
8922	Kumanodake	13.9	X	227.81671	85.28469	30.41373	4.86688	0.1100211	0.28313350	2.2968989	20	9 29.7	16.6
8923	Yamakawa	14.3	X	352.99180	332.17688	203.97541	1.55164	0.1440046	0.26211580	2.4180981	20	1 23.6	16.6
8924	Iruma	14.5	X	86.33523	302.58571	271.99341	1.49061	0.0766067	0.27823179	2.3237971	20	8 25.4	17.5
8925	Boattini	14.1	X	175.08830	9.44551	234.82975	1.95827	0.1342953	0.29196232	2.2503575	20	—	—
8926	Abemasanao	13.7	X	102.20021	167.62704	185.44697	0.49235	0.1292210	0.16810509	3.2514879	20	—	—
8927	Ryojiro	14.1	X	286.92952	243.92132	37.89369	3.48461	0.1729160	0.26411660	2.4058705	20	3 9.5	17.4
8928	1996 YH_2	14.0	X	168.31332	353.28940	53.73472	4.59816	0.0989189	0.26319824	2.4114637	20	4 18.9	17.5
8929	Haginoshinji	14.4	X	239.94130	315.00496	93.21920	5.71737	0.1413638	0.27510009	2.3413997	20	7 5.8	17.5
8930	Kubota	14.0	X	136.16606	81.29845	280.80890	4.25343	0.1925745	0.29941821	2.2128428	20	1 20.2	16.9
8931	Hirokimatsuo	13.7	X	332.54387	329.92765	341.66347	2.22233	0.2278206	0.27138712	2.3627071	20	7 4.5	15.1
8932	Nagatomo	12.9	X	229.98464	274.46933	216.25746	1.31663	0.0675114	0.19642575	2.9309187	20	10 12.9	17.0
8933	Kurobe	13.3	X	17.86554	279.37266	122.84432	3.02759	0.0678655	0.20337456	2.8637710	20	—	—
8934	Nishimurajun	12.7	X	131.87948	298.65226	114.90662	12.52720	0.1175795	0.17737846	3.1371513	20	3 30.4	17.6
8935	Beccaria	14.5	X	63.11350	218.52848	177.59022	4.11176	0.1498237	0.29598084	2.2299424	20	—	—
8936	Gianni	14.2	X	175.11173	222.41969	110.18092	3.51610	0.1214638	0.30036996	2.2081660	20	1 17.1	17.2
8937	Gassan	13.5	X	66.89081	150.30858	164.67114	3.23867	0.1598535	0.28499635	2.2868790	20	12 26.0	16.9
8938	1997 AF_{21}	14.6	X	271.29094	339.63019	2.09070	2.48221	0.2037586	0.31395432	2.1440014	20	5 1.7	17.1
8939	Onodajunjiro	13.5	X	270.37969	81.77942	17.66805	1.76047	0.0768225	0.19761663	2.9191319	20	10 23.7	17.3
8940	Yakushimaru	13.1	X	41.24835	221.59796	103.04701	3.11871	0.0373683	0.19652480	2.9299338	20	11 4.1	17.1
8941	Junsaito	12.1	X	135.16277	214.75184	142.68846	11.14311	0.0448825	0.16839437	3.2477631	20	1 14.7	16.8
8942	Takagi	14.2	X	170.80086	225.56784	152.34291	4.38541	0.0825973	0.21799641	2.7342391	20	3 17.3	18.2
8943	Stefanozavka	14.2	X	7.02085	299.32967	168.99872	7.96516	0.1906830	0.21104421	2.7939615	20	—	—
8944	Ortigara	13.9	X	25.72398	15.21415	189.80211	0.81834	0.1161109	0.17812904	3.1283325	20	5 14.5	17.6
8945	Cavaradossi	13.1	X	114.59189	168.72980	325.33965	11.89203	0.0920415	0.18099679	3.0952006	20	6 9.6	17.9
8946	Yoshimitsu	12.9	X	21.63810	213.83508	174.49713	2.03222	0.1004509	0.20163173	2.8802496	20	—	—
8947	Mizutani	13.6	X	145.89611	271.09772	115.62203	8.82378	0.2120474	0.21562354	2.7542621	20	3 15.2	18.1
8948	1997 CW_{27}	14.1	X	164.29469	80.99529	290.52622	1.59186	0.1988656	0.26037434	2.4288681	20	3 4.7	17.9
8949	1997 CM_{28}	14.1	X	334.27384	159.61539	163.32736	2.81556	0.0933869	0.22986722	2.6392753	20	7 31.6	16.9
8950	1997 EG_{46}	12.6	X	174.65829	62.22493	38.10180	8.14593	0.0728508	0.18049391	3.1009471	20	7 2.9	17.4
8951	1997 FO	12.3	X	62.75323	204.01119	41.40019	10.15648	0.0505432	0.18506789	3.0496407	20	8 27.5	16.7
8952	ODAS	14.0	X	62.26212	202.30471	49.65954	2.24672	0.0643614	0.23578574	2.5949223	20	9 8.7	17.3
8953	1998 FC_{61}	13.7	X	232.28462	99.29027	343.91891	1.33469	0.0823941	0.19421307	2.9531380	20	8 14.7	17.9
8954	Baral	14.1	X	283.02415	224.93180	213.60019	4.99496	0.1309975	0.28956578	2.2627569	20	10 29.2	15.8
8955	1998 FR_{79}	13.9	X	20.44288	77.51553	86.67237	4.95694	0.0281617	0.22064075	2.7123490	20	3 8.8	17.4
8956	1998 FN_{119}	14.5	X	50.68983	233.85731	230.98337	6.27471	0.2425916	0.26504304	2.4002609	20	2 5.8	16.2
8957	Koujounotsuki	14.1	X	254.71588	154.16133	300.61171	3.07280	0.1558345	0.28869950	2.2672811	20	9 28.2	16.5
8958	Stargazer	13.4	X	224.99126	354.79724	343.24914	2.60023	0.0773893	0.22154446	2.7049679	20	3 23.9	17.3
8959	Oenanthe	14.8	X	80.78584	227.54471	57.24191	2.12820	0.2054264	0.28176676	2.3043205	20	12 4.7	18.4
8960	Luscinioides	13.3	X	179.61172	146.99623	71.14144	3.38840	0.0835221	0.19988625	2.8969930	20	12 1.4	17.6

	Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
		m		°	°	°	°		°				
8961	Schoenobaenus	13.7	X	335.44576	151.60733	38.34402	1.12290	0.1332974	0.17123324	3.2117668	20	2 3.1	17.6
8962	Noctua	12.9	X	107.92299	20.89113	38.97400	4.74719	0.0782122	0.17249884	3.1960379	20	3 3.6	17.4
8963	Collurio	13.3	X	280.38289	9.66755	202.88335	0.37671	0.1096119	0.17065373	3.2190337	20	—	—
8964	Corax	15.1	X	72.81432	287.87315	150.43383	4.34138	0.1048527	0.30359319	2.1925089	20	1 18.2	17.1
8965	Citrinella	13.1	X	293.67041	111.41470	160.14087	0.86803	0.1372853	0.17554639	3.1589405	20	3 16.8	17.5
8966	Hortulana	13.9	X	117.84995	278.71375	214.84901	0.70359	0.1381006	0.18388856	3.0626655	20	6 18.1	18.6
8967	Calandra	13.1	X	284.23897	171.07693	170.60005	9.74216	0.1154386	0.18440113	3.0569875	20	6 5.2	17.4
8968	Europaeus	12.5	X	352.56282	138.45837	198.07359	9.68445	0.1165075	0.18840476	3.0135250	20	9 13.5	16.1
8969	Alexandrinus	14.1	X	114.52995	282.29820	154.35803	0.96428	0.0789417	0.26400039	2.4065765	20	3 22.3	16.9
8970	Islandica	14.0	X	69.95506	87.56603	68.60082	0.30526	0.1117912	0.18101924	3.0949446	20	5 16.6	18.1
8971	Leucocephala	13.4	X	116.04660	326.77829	136.42683	0.75998	0.1449497	0.18032379	3.1028971	20	5 10.5	18.2
8972	Sylvatica	14.9	X	236.46993	109.77408	217.08229	2.26890	0.1330385	0.30768856	2.1730104	20	3 11.2	18.1
8973	Pratincola	14.2	X	354.45826	175.67909	40.31838	4.42823	0.1604233	0.26619218	2.3933480	20	3 25.7	16.2
8974	Gregaria	15.0	X	60.71603	50.24047	44.59657	1.03073	0.1150806	0.30396652	2.1907133	20	1 22.9	16.6
8975	Atthis	14.8	X	342.92832	161.47542	30.34516	2.83802	0.1269800	0.26333769	2.4106123	20	2 1.8	17.3
8976	Leucura	13.4	X	136.18517	340.91574	111.40312	2.09636	0.1456135	0.18098864	3.0952935	20	5 17.9	18.3
8977	Paludicola	15.1	X	6.20297	2.86660	118.96036	2.58555	0.1175277	0.30199947	2.2002157	20	—	—
8978	Barbatus	13.6	X	310.81374	216.10639	354.35526	0.29349	0.0897325	0.17002991	3.2269024	20	1 31.6	18.1
8979	Clanga	14.8	X	277.33992	258.31035	93.60153	1.42021	0.1279515	0.31702211	2.1301475	20	6 7.6	17.1
8980	Heliaca	14.1	X	48.96402	22.41344	59.82713	8.81491	0.1976308	0.21407328	2.7675432	20	1 12.8	16.9
8981	1964 *YJ*	12.1	X	137.22107	72.53341	116.55432	11.41108	0.0355150	0.18901624	3.0070222	20	9 13.7	16.6
8982	Oreshek	13.6	X	357.43891	163.58998	189.25653	6.24410	0.1552703	0.27396407	2.3478678	20	11 12.8	15.8
8983	Rayakazakova	12.2	X	198.71516	268.83559	184.48096	10.49453	0.0727249	0.18931284	3.0038806	20	7 18.6	16.9
8984	Derevyanko	13.2	X	334.29383	316.46789	7.43312	10.30239	0.2438338	0.22841355	2.6504614	20	7 29.0	15.5
8985	Tula	14.2	X	136.61255	23.55988	279.44964	4.08380	0.2005995	0.29091096	2.2557761	20	—	—
8986	Kineyayasuyo	13.1	X	263.57095	357.02438	1.44574	1.33671	0.1961028	0.18138005	3.0908389	20	5 19.5	17.8
8987	1978 VD_4	14.2	X	350.23680	252.62627	49.26429	3.40781	0.0926742	0.22894945	2.6463238	20	7 30.8	17.1
8988	1979 MA_4	12.5	X	139.84920	146.55122	187.48974	4.15816	0.2131512	0.15721533	3.3999520	20	1 11.1	18.0
8989	1979 *XJ*	14.4	X	212.50054	246.87978	106.85070	6.06516	0.2387450	0.30374879	2.1917601	20	3 24.2	18.1
8990	Compassion	12.7	X	20.55532	68.52224	128.83905	8.08535	0.0935394	0.17563564	3.1578702	20	4 28.1	16.8
8991	Solidarity	12.8	X	281.85528	312.75909	286.48597	6.78912	0.1819600	0.21169008	2.7882756	20	1 14.5	16.9
8992	Magnanimity	13.4	X	306.47910	133.50263	188.63093	7.92842	0.2104076	0.26679871	2.3897193	20	5 27.0	16.0
8993	Ingstad	13.4	X	278.86036	209.27387	150.98436	23.03723	0.2081735	0.26770166	2.3843427	20	6 12.1	17.0
8994	Kashkashian	13.0	X	205.64071	37.91921	319.80319	8.20422	0.2355537	0.21259199	2.7803840	20	3 22.3	17.9
8995	Rachelstevenson	12.8	X	16.67921	308.76888	342.13936	12.66670	0.1694514	0.23425472	2.6062164	20	9 7.7	15.6
8996	Waynedwards	14.3	X	21.97451	39.23745	210.17014	6.95428	0.1423960	0.18177284	3.0863847	20	7 8.8	18.1
8997	Davidblewett	14.1	X	92.11761	321.05518	298.94356	4.26137	0.1348639	0.23738711	2.5832392	20	10 31.2	18.0
8998	Matthewizawa	13.6	X	353.71004	100.04705	3.07817	0.90627	0.1833898	0.17210407	3.2009234	20	—	—
8999	Tashadunn	14.6	X	128.35462	186.95188	168.94286	1.87446	0.1836369	0.29745622	2.2225627	20	1 1.6	17.3
9000	Hal	14.1	X	205.00837	79.97977	226.59934	6.26106	0.2088387	0.29593723	2.2301615	20	1 16.2	17.8
9001	Slettebak	14.3	X	51.80341	174.36270	152.07520	7.57305	0.2260874	0.28283499	2.2985148	20	12 31.3	17.8
9002	Gabrynowicz	13.2	X	19.30611	230.06936	135.06246	9.16163	0.1198066	0.23125506	2.6287052	20	12 16.1	16.7
9003	Ralphmilliken	13.1	X	114.65376	274.99666	124.92034	5.34268	0.0768151	0.21252595	2.7809600	20	2 9.6	17.0
9004	Peekaydee	12.7	X	297.12170	100.56690	188.25951	21.68006	0.1558815	0.17221726	3.1995207	20	4 9.9	17.1
9005	Sidorova	13.4	X	86.94421	21.18233	270.29301	4.16476	0.1264693	0.23609776	2.5926356	20	12 4.4	17.3
9006	Voytkevych	12.5	X	27.66407	309.14795	67.52024	14.06409	0.1871678	0.23646182	2.5899738	20	—	—
9007	James Bond	13.9	X	146.57682	175.02992	209.99767	5.86868	0.1531644	0.25344377	2.4729479	20	2 29.3	17.7
9008	Bohšternberk	13.9	X	167.03874	310.69433	110.27572	6.38553	0.1069006	0.30695704	2.1764615	20	5 6.6	16.9
9009	Tirso	14.3	X	181.82157	177.92618	81.54019	2.98957	0.1427294	0.28923566	2.2644783	20	—	—
9010	Candelo	13.8	X	189.98272	160.54515	24.77426	2.52379	0.1116048	0.28634679	2.2796832	20	11 15.3	17.0
9011	Angelou	14.3	X	319.10576	69.33616	309.64387	2.08710	0.2394090	0.27380154	2.3487969	20	9 27.5	15.7
9012	Benner	13.9	X	125.44159	78.78412	298.09415	5.06467	0.3136582	0.20258565	2.8712010	20	2 20.3	18.7
9013	Sansaturio	13.5	X	344.20172	127.82099	165.86089	11.34282	0.2779783	0.22385929	2.6862884	20	6 27.3	15.7
9014	Svyatorichter	13.8	X	274.32231	341.25361	73.42829	9.42231	0.1648218	0.27863112	2.3215763	20	9 4.2	16.5
9015	Coe	12.9	X	143.90435	312.84890	88.99193	7.11772	0.1253764	0.21087392	2.7954655	20	3 25.2	17.2
9016	Henrymoore	13.5	X	265.84170	110.06965	290.64957	29.03402	0.3758230	0.21823550	2.7322417	20	6 26.1	18.0
9017	Babadzhanyan	14.2	X	56.35779	72.44418	299.71672	5.80879	0.2287257	0.23848833	2.5752810	20	—	—
9018	Galache	14.1	X	118.88091	13.87323	245.78366	5.82905	0.0822341	0.28009159	2.3134991	20	12 4.3	17.3
9019	Eucommia	14.2	X	234.99757	169.01996	135.08125	5.41015	0.1002191	0.25808086	2.4432366	20	2 17.3	17.8
9020	Eucryphia	13.4	X	279.52184	278.29280	166.70862	6.81148	0.1715426	0.24000900	2.5643917	20	10 15.3	16.2
9021	Fagus	12.4	X	107.52428	0.89019	319.37467	13.25768	0.1722824	0.23779772	2.5802647	20	—	—
9022	Drake	13.0	X	222.78800	126.98457	243.46676	19.08060	0.2213200	0.17692916	3.1424601	20	4 22.2	18.4
9023	Mnesthus	10.1	X	257.99238	158.57398	159.89993	23.92898	0.0651354	0.08260302	5.2216220	20	4 19.9	17.3
9024	Gunnargraps	14.8	X	216.02959	148.53358	97.69617	2.52067	0.1665839	0.29190866	2.2506332	20	—	—
9025	Polanskey	13.8	X	186.73906	174.83772	139.52050	1.99648	0.1536128	0.16957844	3.2326272	20	1 23.9	19.0
9026	Denevi	13.2	X	244.17678	231.70453	80.50582	2.23512	0.1508861	0.17453991	3.1710728	20	3 12.0	18.1
9027	Graps	14.7	X	50.57404	286.51501	66.01404	5.13965	0.2026377	0.28248672	2.3004035	20	—	—
9028	Konrádbeneš	13.9	X	88.07958	332.15848	107.91913	4.05157	0.1580254	0.25687019	2.4509074	20	3 5.3	16.7
9029	1989 *GM*	13.6	X	20.13149	142.45111	115.50197	17.88842	0.1608809	0.22685209	2.6626098	20	7 25.5	16.3
9030	1989 UX_5	11.1	X	158.49268	18.68474	76.69380	4.22940	0.0187118	0.08086064	5.2963652	20	6 5.6	18.1
9031	1989 WG_4	14.2	X	128.78057	321.25501	103.55329	5.86194	0.0905085	0.30324779	2.1941734	20	3 25.9	16.9
9032	Tanakami	14.4	X	216.16235	46.10135	107.71405	5.13676	0.1018020	0.28509734	2.2863389	20	11 8.4	17.2
9033	Kawane	11.2	X	210.17612	301.35794	100.81638	16.03466	0.2133348	0.17649438	3.1476188	20	5 25.8	16.6
9034	Oleyuria	12.6	X	3.76880	131.06603	166.79145	9.38215	0.0850729	0.22926385	2.6439038	20	8 14.4	15.7
9035	1990 SH_1	13.6	X	194.06748	177.11544	206.76812	9.03529	0.2862517	0.21817445	2.7327514	20	4 16.2	18.6
9036	1990 SJ_{16}	13.4	X	139.69512	74.86859	296.82116	5.16934	0.2273396	0.18160475	3.0882889	20	2 20.3	18.5
9037	1990 UJ_2	13.6	X	340.79678	224.16785	132.97579	4.79752	0.2161826	0.22823075	2.6518764	20	10 8.8	15.8
9038	Helensteel	13.1	X	22.85515	221.05691	138.12504	14.35965	0.1669413	0.23238108	2.6202066	20	12 21.1	16.6
9039	1990 WB_4	12.3	X	184.91764	207.42679	270.01733	9.59478	0.0727742	0.18810430	3.0167331	20	8 1.9	16.9
9040	Flacourtia	13.0	X	65.65372	105.85537	125.08008	0.58456	0.1345284	0.18358149	3.0660798	20	8 19.8	17.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
9041 Takane	14.6	X	323.14061	304.40598	228.01899	2.78322	0.0658550	0.30111067	2.2045432	20	—	—
9042 1991 EN_2	12.9	X	58.94165	183.76083	206.60596	1.43144	0.0908892	0.19641422	2.9310334	20	—	—
9043 1991 EJ_4	12.5	X	50.44119	325.17619	313.61063	4.11840	0.1267039	0.18372481	3.0644851	20	9 26.9	16.8
9044 Kaoru	13.6	X	240.50887	133.53843	106.54690	4.66171	0.1011388	0.29427604	2.2385465	20	—	—
9045 1991 PG_{15}	14.7	X	202.06461	247.73418	102.49485	1.66804	0.2025116	0.26006524	2.4307922	20	3 12.2	18.6
9046 1991 PG_{17}	13.6	X	80.48588	311.40295	307.79943	12.13276	0.1791303	0.27687818	2.3313648	20	10 24.4	17.4
9047 1991 QF	14.1	X	33.68396	316.42291	42.13876	16.88604	0.3123958	0.24517818	2.5282198	20	—	—
9048 1991 RD_{24}	13.6	X	300.26006	138.83781	121.14110	5.60795	0.1079774	0.26217033	2.4177628	20	3 7.7	16.6
9049 1991 RQ_{27}	14.4	X	237.49173	213.01069	110.89393	4.61067	0.2210936	0.25993128	2.4316273	20	3 9.9	18.5
9050 1991 RF_{29}	13.4	X	13.63989	9.05923	276.85442	10.04694	0.0418045	0.26777518	2.3839062	20	8 11.4	16.3
9051 1991 UG_3	14.0	X	265.48848	45.69937	318.09628	3.00172	0.2167495	0.26477761	2.4018647	20	5 24.8	17.3
9052 Uhland	14.1	X	184.23845	34.58410	323.95924	2.20607	0.1859991	0.25485953	2.4637812	20	3 6.2	18.1
9053 Hamamelis	13.1	X	99.21951	181.79714	102.99384	9.23471	0.1902796	0.24075818	2.5590691	20	12 13.6	17.3
9054 Hippocastanum	13.2	X	326.08466	257.52257	103.57250	14.33470	0.1875440	0.23183923	2.6242876	20	9 15.3	15.9
9055 Edvardsson	13.9	X	232.19403	114.90432	196.27866	7.84713	0.2769086	0.20980921	2.8049149	20	2 16.9	19.0
9056 Piskunov	13.4	X	57.55344	259.24950	220.31587	2.74098	0.0457981	0.21105222	2.7938908	20	2 29.7	17.1
9057 1992 HA_5	12.6	X	253.44680	235.19566	88.19877	2.13249	0.1821464	0.17424417	3.1746599	20	3 31.1	17.6
9058 1992 JB	17.8	X	192.90383	306.98668	218.34883	16.08095	0.3596885	0.50762549	1.5563494	20	10 30.6	18.7
9059 Dumas	14.5	X	321.81242	337.43879	270.13752	2.89452	0.0790744	0.30919023	2.1659688	20	3 17.1	16.8
9060 Toyokawa	14.3	X	171.72839	354.15525	5.23477	2.52674	0.1941244	0.30192287	2.2005878	20	2 22.9	17.5
9061 1992 WC_3	13.9	X	66.30391	271.54530	80.93204	5.71752	0.1866212	0.28788889	2.2715351	20	—	—
9062 Ohnishi	14.1	X	299.55556	283.88387	98.05384	4.12144	0.0340385	0.27659296	2.3329672	20	9 12.5	16.7
9063 Washi	14.5	X	354.71984	249.30861	116.04611	4.80683	0.1610581	0.28117155	2.3075713	20	11 29.3	16.6
9064 Johndavies	13.8	X	338.30305	108.46823	120.28857	8.13138	0.1278934	0.25958168	2.4338101	20	3 21.2	16.5
9065 1993 FN_1	13.1	X	84.71061	142.23203	146.96115	8.86308	0.1938817	0.23499394	2.6007480	20	12 6.3	17.4
9066 1993 FR_{34}	13.5	X	330.90430	284.57795	157.60302	3.97402	0.1231233	0.20515712	2.8471586	20	—	—
9067 Katsuno	12.3	X	191.85724	297.35858	18.84575	7.66832	0.1484333	0.20992930	2.8038451	20	1 28.5	16.9
9068 1993 OD	13.6	X	251.71829	104.78786	301.97449	20.29754	0.1497620	0.40117614	1.8207318	20	7 26.6	15.0
9069 Hovland	14.3	X	299.38588	171.30458	247.89548	19.57064	0.1179865	0.37249420	1.9130355	20	12 1.6	15.0
9070 Ensab	14.6	X	45.11564	248.86570	116.43757	21.62292	0.4279683	0.18885972	3.0086834	20	—	—
9071 Coudenberghe	13.7	X	121.71210	110.26260	174.66671	2.17183	0.0948725	0.19517344	2.9434426	20	12 21.3	18.2
9072 1993 RX_3	11.8	X	257.62899	14.66154	290.06137	15.23385	0.0764254	0.17178036	3.2049434	20	3 14.9	16.8
9073 Yoshinori	14.4	X	311.99161	335.78666	114.79429	6.48331	0.1236842	0.28817698	2.2700209	20	—	—
9074 Yosukeyoshida	14.1	X	35.81239	132.67124	100.25320	5.69205	0.1919582	0.27002417	2.3706510	20	7 27.3	16.4
9075 1994 GD_9	14.6	X	336.86121	302.65570	198.44700	22.55696	0.3149910	0.25720525	2.4487785	20	—	—
9076 Shinsaku	15.2	X	311.52289	307.63608	168.91363	7.32861	0.0522180	0.28627330	2.2800733	20	—	—
9077 Ildo	13.2	X	231.68617	237.18383	165.56112	11.95750	0.1766663	0.22345315	2.6895424	20	6 14.8	17.6
9078 1994 PB_2	13.1	X	114.61712	6.80957	334.08295	1.37308	0.0704432	0.20398704	2.8580358	20	—	—
9079 Gesner	13.2	X	24.08756	135.89801	155.28855	10.44644	0.0745685	0.19041675	2.9922597	20	9 1.8	17.0
9080 Takayanagi	12.9	X	210.65111	190.00216	201.91915	7.27006	0.1195601	0.17725217	3.1386413	20	5 15.6	17.8
9081 Hideakianno	14.1	X	184.81644	300.10891	255.64184	8.83493	0.0335761	0.19279766	2.9675740	20	11 11.5	18.4
9082 Leonardmartin	14.0	X	261.46843	280.99486	51.45498	30.34155	0.4277841	0.21797752	2.7343970	20	4 9.0	19.3
9083 Ramboehm	12.4	X	62.02155	116.97071	269.04010	14.17506	0.1592710	0.23887648	2.5724906	20	—	—
9084 Achristou	15.8	X	234.75355	72.08146	197.52927	23.09386	0.0778488	0.38858673	1.8598478	20	—	—
9085 1995 QH_2	14.8	X	85.28423	276.23722	45.39607	6.88590	0.1370495	0.28719711	2.2751813	20	—	—
9086 1995 SA_3	14.3	X	87.27698	107.41853	253.13201	6.52256	0.2256387	0.29023411	2.2592819	20	—	—
9087 Neff	14.4	X	123.15964	315.33450	336.68911	4.71480	0.1704757	0.28564932	2.2833926	20	—	—
9088 Maki	14.3	X	250.25970	80.38491	222.31144	4.62393	0.2038071	0.30262059	2.1972041	20	2 17.4	17.8
9089 1995 UC_7	13.6	X	323.30797	175.10360	98.85132	7.44306	0.1217340	0.26309723	2.4120809	20	4 30.9	16.3
9090 Chirotenmondai	12.7	X	115.20032	12.94575	66.08783	13.74331	0.0979853	0.21663127	2.7457139	20	4 8.4	16.8
9091 Ishidatakaki	14.1	X	224.26979	141.63062	180.33972	2.40981	0.2056034	0.25825267	2.4421528	20	2 24.0	18.1
9092 Nanyang	12.0	X	107.50934	139.83318	116.72697	10.83836	0.0532686	0.18775948	3.0204255	20	11 3.4	16.6
9093 Sorada	13.0	X	3.76508	78.06230	229.67550	14.40581	0.1122983	0.23028856	2.6360551	20	8 25.5	16.4
9094 Butsuen	13.3	X	90.50633	242.12425	101.44158	3.45174	0.0480187	0.20297188	2.8675575	20	—	—
9095 1995 WT_2	14.4	X	149.01244	68.21765	279.04459	2.72303	0.1808684	0.29182206	2.2510785	20	1 15.1	17.4
9096 Tamotsu	12.1	X	180.53351	313.39802	70.14872	6.85872	0.0217438	0.17487363	3.1670373	20	4 7.2	16.7
9097 Davidschlag	13.3	X	14.19666	113.82961	124.57226	2.09874	0.1178925	0.17635834	3.1492373	20	6 9.3	17.2
9098 Toshihiko	13.0	X	13.34086	33.71300	44.50984	3.32794	0.1557629	0.19858540	2.9096305	20	—	—
9099 Kenjitanabe	13.4	X	38.68728	4.56553	72.62105	2.12275	0.2291678	0.17345480	3.1842842	20	—	—
9100 Tomohisa	13.6	X	2.93184	109.67983	93.32412	7.94002	0.1606522	0.26278070	2.4140174	20	3 27.3	15.8
9101 1996 XG_2	15.5	X	240.57745	56.68300	102.12107	1.86588	0.0491107	0.28921977	2.2645612	20	12 26.7	18.1
9102 Foglar	14.2	X	123.83607	16.07971	80.28300	2.77785	0.0881793	0.18268735	3.0760761	20	5 4.6	18.7
9103 Komatsubara	13.8	X	291.11304	32.95412	261.23204	3.80529	0.1188483	0.30917140	2.1660568	20	4 1.4	16.2
9104 Matsuo	13.9	X	340.63559	56.68087	97.10404	8.52150	0.1657247	0.21231018	2.7828438	20	—	—
9105 Matsumura	13.9	X	33.87581	338.90033	20.23231	2.16183	0.0856840	0.20152418	2.8812743	20	12 14.1	17.8
9106 Yatagarasu	13.5	X	24.15783	25.13438	55.89959	5.51894	0.0337315	0.25180222	2.4836840	20	—	—
9107 Narukospa	13.0	X	282.46432	13.29072	126.14003	6.81128	0.2055387	0.20346056	2.8629640	20	12 17.4	16.1
9108 Toryusa	14.3	X	3.14411	234.51398	157.80287	3.46390	0.1333756	0.24422494	2.5347942	20	—	—
9109 Yukomotizuki	14.5	X	266.57669	265.93390	151.30379	7.16956	0.0930480	0.27715919	2.3297887	20	9 2.4	17.0
9110 Choukai	14.0	X	55.84970	156.49310	145.99291	3.19340	0.0325319	0.28160023	2.3052289	20	11 11.3	16.8
9111 Matarazzo	13.5	X	345.13316	268.25692	128.65544	10.06186	0.1404508	0.28414336	2.2914535	20	12 26.1	15.9
9112 Hatsulars	13.0	X	346.90165	168.57655	100.11838	2.80538	0.1425741	0.17968280	3.1102721	20	6 2.2	16.4
9113 1997 CN_5	13.4	X	289.12758	338.03094	209.66569	5.30802	0.0618387	0.20887326	2.8132877	20	—	—
9114 Hatakeyama	14.5	X	221.83745	2.57092	112.14383	4.20785	0.1116468	0.27609122	2.3357928	20	9 20.3	17.5
9115 Battisti	13.6	X	357.18756	344.86113	267.20292	5.16116	0.0900985	0.26585815	2.3953523	20	5 29.0	16.1
9116 Billhamilton	14.9	X	316.18222	225.14284	196.41487	3.97108	0.1193516	0.27950447	2.3167377	20	12 5.1	17.0
9117 Aude	13.1	X	87.32391	44.62246	90.80287	10.18762	0.1642027	0.26148221	2.4220026	20	5 21.4	16.2
9118 1997 GD_{20}	13.2	X	351.70431	263.58871	96.64401	1.00219	0.2723152	0.18675114	3.0312880	20	10 29.0	15.7
9119 Georgpeuerbach	13.8	X	235.23637	81.01343	264.45935	0.87421	0.1002424	0.18557057	3.0441308	20	4 13.8	18.3
9120 1998 DR_8	13.7	X	246.54850	115.39508	246.12005	5.42180	0.2014477	0.28871661	2.2671915	20	5 2.3	16.9

	Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
		m		°	°	°	°		°				
9121	Stefanovalentini	11.3	X	188.34123	337.59426	326.79707	4.64657	0.0421879	0.12869392	3.8853550	20	1 17.6	17.0
9122	Hunten	14.2	X	247.70737	344.83337	124.11108	3.08965	0.0446527	0.19791941	2.9161541	20	10 12.5	18.2
9123	Yoshiko	13.6	X	111.98976	212.33397	333.20713	11.87731	0.2069990	0.23628398	2.5912732	20	8 25.9	17.8
9124	1998 FR_{60}	13.7	X	338.12048	41.57472	6.50021	1.38198	0.0571344	0.20281673	2.8690197	20	11 26.2	17.4
9125	1998 FT_{62}	14.6	X	140.22806	69.92748	320.65813	1.57365	0.1712108	0.30967484	2.1637086	20	2 27.9	17.5
9126	Samcoulson	14.7	X	274.58620	256.49007	179.06028	1.86618	0.1552146	0.24410161	2.5356479	20	9 25.3	17.6
9127	Brucekoehn	13.7	X	249.19646	210.66310	88.10025	2.91385	0.1213500	0.17439721	3.1728024	20	3 3.9	18.5
9128	Takatumuzi	14.1	X	185.78340	202.13952	117.14429	3.09965	0.1863939	0.30024634	2.2087721	20	1 15.3	17.3
9129	1998 HU_{144}	13.8	X	328.82430	156.45496	172.84395	1.18858	0.2115298	0.18535819	3.0464557	20	7 16.9	17.0
9130	Galois	14.1	X	339.80068	67.71947	230.93159	1.63370	0.2249950	0.27072516	2.3665570	20	7 1.3	15.3
9131	1998 JV	14.2	X	277.42254	91.15968	232.79779	1.53287	0.2195033	0.26776262	2.3839808	20	4 14.7	17.4
9132	Walteranderson	12.7	X	12.57319	158.59467	116.20200	2.59109	0.1675086	0.17944693	3.1129970	20	7 30.8	16.0
9133	d′Arrest	14.2	X	14.48111	145.54913	214.79159	12.81136	0.1710697	0.23166007	2.6256405	20	12 10.1	17.5
9134	Encke	14.3	X	58.61245	180.95272	135.64135	2.74843	0.0301272	0.19891248	2.9064400	20	11 14.9	18.4
9135	Lacaille	15.0	X	73.99777	228.96760	45.75639	6.45736	0.1319665	0.28082594	2.3094642	20	11 8.4	18.0
9136	Lalande	13.8	X	224.79549	289.29830	30.50860	6.68795	0.1480345	0.25939265	2.4349923	20	2 27.0	17.6
9137	Remo	14.1	X	139.60031	306.75996	182.82285	3.48212	0.1546836	0.26751012	2.3854807	20	7 8.7	17.8
9138	Murdoch	14.7	X	29.79462	337.52022	176.91365	3.12622	0.0512336	0.30580298	2.1819338	20	2 23.4	16.7
9139	Barrylasker	14.8	X	275.12514	264.35117	103.67141	1.79744	0.2354228	0.26963929	2.3729064	20	6 9.7	18.0
9140	Deni	14.0	X	14.19972	81.51536	184.22111	13.87610	0.1074129	0.27164372	2.3612190	20	7 20.9	16.7
9141	Kapur	12.5	X	303.46428	172.75976	82.75082	13.05889	0.1870913	0.17447864	3.1718151	20	3 8.7	17.1
9142	Rhesus	10.6	X	266.28167	173.32185	141.19815	12.80653	0.1306469	0.08394701	5.1657401	20	4 16.3	17.7
9143	Burkhead	13.9	X	225.22788	3.40033	334.98238	4.63081	0.1965190	0.29831657	2.2182873	20	3 13.0	17.3
9144	Hollisjohnson	13.4	X	351.77961	328.72560	20.74502	10.85945	0.2632175	0.27323491	2.3520430	20	11 9.3	15.2
9145	Shustov	12.7	X	60.74538	238.41764	39.34295	14.33343	0.1620923	0.23096931	2.6308729	20	10 24.6	16.4
9146	Tulikov	13.4	X	329.31154	167.87115	53.99365	7.04407	0.0392711	0.25661858	2.4525093	20	3 9.8	16.5
9147	Kourakuen	13.5	X	224.15668	252.62046	142.30195	5.81556	0.1060808	0.30379187	2.1915529	20	6 3.5	16.4
9148	Boriszaitsev	14.2	X	18.80926	133.01265	358.02002	4.74964	0.1620984	0.29533291	2.2332028	20	—	—
9149	1977 TD_1	13.5	X	327.66978	194.90790	208.46111	12.62102	0.1637484	0.23014419	2.6371573	20	11 15.5	16.1
9150	Zavolokin	13.5	X	140.42527	275.02648	83.55740	7.51362	0.1950576	0.24549608	2.5260368	20	1 29.9	17.3
9151	1979 MQ_8	15.4	X	173.01698	288.08935	132.46597	3.74580	0.1254640	0.26010796	2.4305261	20	5 12.9	19.0
9152	Combe	15.2	X	334.13503	112.73022	260.48000	3.58453	0.2435899	0.27111475	2.3642893	20	11 1.5	16.5
9153	Chikurinji	12.9	X	279.35923	163.77840	229.74507	12.43459	0.1524700	0.22335550	2.6903262	20	7 28.3	16.7
9154	Kol′tsovo	12.7	X	52.55948	41.39645	359.94063	10.25279	0.1148453	0.18864602	3.0109551	20	—	—
9155	Verkhodanov	12.8	X	37.69625	278.15730	24.06631	2.33703	0.0352933	0.18190774	3.0848586	20	9 28.8	16.8
9156	Malanin	14.3	X	273.47262	21.63984	320.56839	4.88326	0.1498961	0.30533998	2.1841390	20	5 12.5	16.9
9157	1983 RB_4	14.4	X	250.01442	308.72574	49.45600	2.98122	0.2206008	0.26088479	2.4256988	20	5 1.4	17.9
9158	Platè	13.6	X	62.98820	184.51297	147.78162	7.69664	0.1506728	0.28263227	2.2996137	20	—	—
9159	McDonnell	13.9	X	328.02394	183.95228	207.51446	6.39656	0.1138162	0.27447265	2.3449666	20	11 10.5	16.0
9160	1986 UH_3	14.9	X	60.11644	75.63464	311.21050	0.69519	0.2388389	0.23932290	2.5692905	20	—	—
9161	Beaufort	13.2	X	301.74878	281.27466	139.88428	14.07840	0.1323013	0.22749889	2.6575607	20	10 26.9	16.4
9162	Kwiila	17.8	X	295.93771	235.77700	180.04894	9.00775	0.5953173	0.53831843	1.4966143	20	—	—
9163	1987 RB_1	13.7	X	307.16190	119.34335	193.56624	1.34802	0.2038686	0.17540147	3.1606803	20	5 16.6	17.7
9164	Colbert	13.0	X	255.02147	63.86571	325.01393	3.68570	0.1511328	0.17311367	3.1884662	20	6 23.1	17.7
9165	Raup	13.6	X	256.86052	332.12594	14.99260	24.59682	0.0974989	0.35216063	1.9859830	20	4 26.2	16.2
9166	1987 SC_6	12.7	X	316.03374	148.23717	162.77792	1.17213	0.1738689	0.17449347	3.1716354	20	6 1.8	16.4
9167	Kharkiv	12.7	X	348.67425	324.46919	359.70708	6.94750	0.1662948	0.17652050	3.1473082	20	8 23.8	16.1
9168	Sarov	13.7	X	229.29932	143.40840	224.82775	8.80150	0.1556278	0.26027039	2.4295148	20	4 28.9	17.5
9169	1988 TL_1	14.4	X	56.82191	176.50922	214.34143	4.87199	0.1392918	0.28596275	2.2817238	20	—	—
9170	1988 TG_5	14.6	X	140.99708	165.65008	214.56547	3.11096	0.1564960	0.29281837	2.2459694	20	2 14.1	17.6
9171	Carolyndiane	12.8	X	89.34143	271.38918	34.30143	14.84226	0.1276486	0.23695518	2.5863775	20	12 23.6	17.0
9172	Abhramu	16.4	X	324.94147	74.00998	287.66499	7.84527	0.5529634	0.22111313	2.7084845	20	6 23.4	17.9
9173	1989 TZ_{15}	12.6	X	310.64551	257.97240	353.45979	8.58327	0.1153172	0.21120804	2.7925165	20	3 13.2	16.0
9174	1989 WC_3	14.2	X	148.96635	192.20850	240.79311	2.76554	0.0707301	0.30466191	2.1873785	20	4 26.0	16.9
9175	Graun	12.2	X	34.83903	353.00418	329.95263	15.06997	0.1400521	0.23505421	2.6003034	20	11 9.4	15.9
9176	Struchkova	13.4	X	223.09674	228.52919	176.87266	3.70479	0.0841321	0.22017350	2.7161850	20	6 16.8	17.4
9177	1990 YA	13.7	X	78.52278	129.31734	261.69649	4.42610	0.2786081	0.24059948	2.5601943	20	1 2.3	15.9
9178	Momoyo	13.8	X	94.60887	17.38186	31.33778	2.26121	0.0812654	0.20177624	2.8788743	20	1 28.9	17.7
9179	Satchmo	13.0	X	71.00397	194.18618	165.30331	11.07497	0.1156367	0.19129756	2.9830676	20	—	—
9180	Samsagan	12.6	X	75.66866	312.94122	218.94265	15.70568	0.0541366	0.17342364	3.1846657	20	6 5.1	17.1
9181	1991 NP_2	13.7	X	64.27653	350.55355	317.40812	6.85160	0.1492288	0.27943316	2.3171319	20	12 11.9	17.0
9182	1991 NB_4	13.6	X	357.93167	157.99254	271.04471	3.72787	0.0891962	0.28521702	2.2856993	20	—	—
9183	1991 OW	14.7	X	149.39779	336.79773	282.18120	5.88311	0.1982055	0.28373625	2.2936448	20	12 31.4	18.3
9184	Vasilij	14.1	X	291.23262	108.42022	349.38965	4.79717	0.0971096	0.28039132	2.3118501	20	12 12.3	16.4
9185	1991 PX_{17}	13.6	X	89.97857	278.12805	0.13683	6.66325	0.1116883	0.27806149	2.3247459	20	11 26.4	17.1
9186	Fumikotsukimoto	14.1	X	131.39011	75.06735	184.44045	23.10128	0.1925400	0.28113723	2.3077591	20	12 16.6	18.4
9187	Walterkröll	14.7	X	334.71572	64.29973	213.89767	4.36257	0.2039565	0.26612573	2.3937464	20	5 15.1	16.5
9188	1991 RM_{15}	14.4	X	308.41052	4.63050	309.04012	2.08812	0.2219515	0.26712623	2.3877656	20	5 13.1	16.7
9189	Hölderlin	14.2	X	208.98157	279.07604	133.70436	2.74724	0.0786345	0.26448999	2.4036057	20	6 11.3	17.4
9190	Masako	13.4	X	152.87719	100.63129	316.15761	5.62161	0.2198532	0.25684395	2.4510744	20	4 19.3	17.6
9191	Hokuto	12.5	X	215.41189	253.93225	288.00879	11.93257	0.1124322	0.23511460	2.5998582	20	11 29.5	16.2
9192	1992 AR_1	13.1	X	136.61713	236.52888	289.40965	6.56783	0.1876130	0.22459680	2.6804045	20	8 19.3	17.5
9193	Geoffreycopland	12.9	X	337.74402	190.32221	241.15762	13.44009	0.1457910	0.23433873	2.6055936	20	—	—
9194	Ananoff	14.7	X	228.38740	289.41138	128.56530	8.58363	0.0870382	0.27938968	2.3173723	20	7 11.8	17.7
9195	1992 OF_9	12.8	X	324.52875	171.48584	104.31450	2.63725	0.1591484	0.17193955	3.2029650	20	5 2.7	16.6
9196	Sukagawa	13.7	X	303.96672	145.80895	104.37032	3.43627	0.0694335	0.29959586	2.2119680	20	2 29.2	16.3
9197	Endo	14.8	X	303.63667	329.19632	2.18333	1.00026	0.1106625	0.30970412	2.1635722	20	6 22.9	16.6
9198	Sasagamine	14.2	X	39.75392	305.74530	172.35856	1.19730	0.0894790	0.29066878	2.2570289	20	1 20.7	16.4
9199	1993 FO_1	13.1	X	294.85916	308.33489	49.26326	7.87881	0.1331431	0.26478249	2.4018352	20	7 13.6	15.8
9200	1993 FK_{21}	13.5	X	246.52380	154.65744	193.78453	2.01747	0.2025799	0.25715923	2.4490706	20	4 17.3	17.3

	Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
		m		°	°	°	°		°				
9201	1993 FU_{39}	12.9	X	244.22958	181.90106	71.32760	0.78128	0.1033490	0.17464063	3.1698535	20	1 6.5	17.7
9202	1993 PB	15.9	X	16.86235	212.31876	315.92232	40.81854	0.6074426	0.58010209	1.4238572	20	7 19.7	16.6
9203	Myrtus	12.5	X	17.55644	163.95502	84.94055	2.57413	0.1090840	0.17482011	3.1676835	20	6 28.4	16.4
9204	Mörike	13.7	X	285.95717	214.67584	260.72769	6.12255	0.0635071	0.27686452	2.3314414	20	12 29.5	16.1
9205	Eddywally	13.1	X	34.54042	39.02275	113.18186	0.59554	0.1239648	0.17524075	3.1626125	20	3 21.3	17.0
9206	Yanaikeizo	14.2	X	178.63650	343.17207	37.42766	1.81506	0.2177900	0.25133241	2.4867782	20	3 30.4	18.4
9207	Petersmith	14.4	X	271.82903	236.38992	86.75169	1.29709	0.0823818	0.21699371	2.7426556	20	4 29.3	18.2
9208	Takanotoshi	12.9	X	206.75152	206.22085	208.46163	10.42329	0.1007715	0.21697763	2.7427911	20	6 9.3	17.2
9209	1994 UK_1	13.3	X	282.27891	296.06804	8.39313	5.50634	0.2881623	0.21633464	2.7482232	20	3 21.5	17.6
9210	1995 BW_2	13.5	X	272.88930	86.19695	348.30348	7.06436	0.2230354	0.18233416	3.0800471	20	9 1.6	17.6
9211	Neese	15.0	X	183.78386	266.90295	14.51123	2.40135	0.1501234	0.29149980	2.2527372	20	—	—
9212	Kanamaru	14.3	X	320.01935	192.29851	226.32375	5.72136	0.0963062	0.27814162	2.3242994	20	12 6.1	16.6
9213	1995 UX_5	14.2	X	184.04334	157.03317	297.02835	6.29203	0.0711357	0.26697820	2.3886481	20	7 8.8	17.6
9214	1995 UC_6	13.6	X	287.18036	335.79978	320.01060	6.47642	0.1791976	0.30419752	2.1896041	20	3 19.7	16.5
9215	Taiyonoto	14.2	X	161.34055	112.16114	268.72452	2.89959	0.1509445	0.29677704	2.2259523	20	3 6.6	17.4
9216	Masuzawa	13.9	X	121.67916	153.58083	218.28301	2.18149	0.1624047	0.29150532	2.2527088	20	1 12.1	16.4
9217	Kitagawa	15.3	X	34.67052	257.97653	80.32842	4.64809	0.1580396	0.27796766	2.3252690	20	12 18.5	18.1
9218	Ishiikazuo	14.2	X	143.53246	106.45860	213.21841	2.82305	0.1675312	0.28758242	2.2731486	20	—	—
9219	1995 WO_8	11.9	X	359.80724	63.74951	143.43210	14.17139	0.2208275	0.17252066	3.1957684	20	4 4.4	15.3
9220	Yoshidayama	13.9	X	301.42859	43.98120	282.98109	5.33395	0.1363047	0.26398652	2.4066608	20	6 6.1	16.6
9221	Wuliangyong	14.4	X	81.74692	180.67736	210.14837	2.44084	0.1832319	0.28895970	2.2659198	20	—	—
9222	Chubey	12.3	X	58.08858	110.34962	101.15058	17.36742	0.1834019	0.17832190	3.1260765	20	7 22.9	16.5
9223	Leifandersson	13.5	X	168.23194	23.35714	231.81849	3.41227	0.0700256	0.28237274	2.3010225	20	—	—
9224	Železný	14.6	X	283.32901	166.47171	239.43527	5.14214	0.1332937	0.26950778	2.3736782	20	9 1.5	17.2
9225	Daiki	13.6	X	323.42341	222.27381	120.83802	16.88376	0.1472510	0.22393693	2.6856675	20	8 7.5	16.4
9226	Arimahiroshi	13.4	X	30.96405	341.75560	114.79245	3.26758	0.0403627	0.20352319	2.8623766	20	—	—
9227	Ashida	13.0	X	143.12613	207.33749	336.31790	3.64021	0.0408097	0.18278558	3.0749739	20	9 8.8	17.3
9228	Nakahiroshi	12.1	X	93.28329	202.15213	31.39907	5.79835	0.0226763	0.18220039	3.0815545	20	9 12.7	16.4
9229	Matsuda	13.5	X	26.76353	166.84994	279.79508	1.05713	0.0697373	0.19870685	2.9084448	20	—	—
9230	Yasuda	13.7	X	179.25615	301.77507	75.12735	2.32660	0.1906856	0.18172344	3.0869439	20	3 30.0	18.9
9231	Shimaken	14.3	X	330.68997	295.40967	1.71268	3.13298	0.1333064	0.31100239	2.1575468	20	6 16.4	15.9
9232	Miretti	14.6	X	23.68952	285.32033	325.42924	3.32338	0.0929639	0.31069556	2.1589671	20	7 20.4	16.3
9233	Itagijun	13.1	X	153.03860	130.63563	142.59805	7.58616	0.2567748	0.24162817	2.5529228	20	—	—
9234	Matsumototaku	14.5	X	282.87214	195.08001	90.08062	2.17797	0.0988442	0.30154476	2.2024270	20	3 15.4	17.0
9235	Shimanamikaido	15.9	X	295.14915	173.11541	91.98426	4.35829	0.1596156	0.25808906	2.4431848	20	2 29.6	19.2
9236	Obermair	15.2	X	33.06536	41.39596	166.07339	6.62278	0.0938650	0.26225405	2.4172482	20	5 28.4	17.9
9237	1997 GY_7	13.9	X	189.83169	15.83055	95.74834	1.61046	0.1185074	0.22449453	2.6812185	20	8 3.4	18.0
9238	Yavapai	13.4	X	100.49866	175.77841	180.53598	1.77690	0.0925207	0.19660167	2.9291701	20	—	—
9239	van Riebeeck	14.6	X	322.41539	278.74349	160.03364	1.95221	0.2115048	0.27827083	2.3235798	20	—	—
9240	Nassau	12.6	X	285.08211	279.14549	109.57562	7.24993	0.2049535	0.17716820	3.1396329	20	7 22.8	16.6
9241	Rosfranklin	12.3	X	60.04864	235.32634	121.24591	12.40493	0.1215406	0.18478234	3.0527816	20	—	—
9242	Olea	15.0	X	211.92526	282.16165	152.56546	5.06542	0.1729965	0.28366198	2.2940451	20	7 7.4	18.5
9243	1998 FF_{68}	13.7	X	6.28826	293.94506	268.05964	0.04272	0.1023866	0.17915365	3.1163934	20	4 7.6	17.5
9244	Visnjan	13.3	X	0.41438	120.14082	237.75455	0.99222	0.0788957	0.19672830	2.9279129	20	10 25.2	17.0
9245	1998 HF_{101}	14.5	X	22.26750	181.40666	122.10198	3.91045	0.2603017	0.27738301	2.3285352	20	11 2.3	17.0
9246	Niemeyer	14.2	X	324.64222	230.58754	113.02234	1.43566	0.2206053	0.27385598	2.3484856	20	8 11.9	15.4
9247	1998 MO_{19}	11.6	X	169.23073	251.63883	213.16974	26.46881	0.0684832	0.17927297	3.1150104	20	6 27.6	16.8
9248	Sauer	13.7	X	149.60422	212.10125	166.41443	2.24302	0.0796390	0.20568789	2.8422584	20	2 24.0	17.8
9249	Yen	14.6	X	150.10991	214.92756	51.72357	2.05319	0.0807397	0.28366186	2.2940458	20	—	—
9250	Chamberlin	13.4	X	36.50666	56.03852	181.27153	19.33923	0.2060173	0.17872790	3.1213405	20	7 24.2	17.5
9251	Harch	14.1	X	328.06503	234.83745	114.26038	2.59764	0.1775058	0.17964327	3.1107283	20	8 16.2	17.5
9252	Goddard	13.1	X	348.42207	83.22368	265.80126	3.19765	0.1633415	0.18079625	3.0974890	20	9 23.6	16.6
9253	Oberth	14.5	X	314.85655	138.56795	199.71200	7.28591	0.1836934	0.26587854	2.3952298	20	7 10.5	16.7
9254	Shunkai	14.0	X	332.49669	233.23958	156.71502	6.06475	0.1854883	0.27120480	2.3637659	20	11 22.8	15.9
9255	Inoutadataka	13.8	X	359.35826	314.80170	0.65560	9.60505	0.0724356	0.26718552	2.3874123	20	9 9.8	16.2
9256	Tsukamoto	13.8	X	33.92053	248.39132	19.77977	4.91305	0.1293794	0.27171399	2.3608119	20	9 6.5	16.4
9257	Kunisuke	12.5	X	65.18514	104.80262	184.88903	9.84652	0.0809455	0.19042137	2.9922113	20	10 26.9	16.8
9258	Johnpauljones	15.7	X	319.73126	119.01209	214.25600	1.48357	0.1140866	0.31273812	2.1495564	20	7 27.9	17.4
9259	Janvanparadijs	14.3	X	88.17923	358.60501	274.75205	1.14948	0.1211341	0.23295977	2.6158656	20	11 12.2	18.1
9260	Edwardolson	14.1	X	89.59021	148.52819	214.57399	5.09736	0.2289091	0.28432041	2.2905021	20	—	—
9261	Peggythomson	14.1	X	86.72516	194.27425	196.13026	4.54085	0.1633834	0.28502842	2.2867074	20	—	—
9262	Bordovitsyna	12.4	X	83.63000	1.87262	5.92592	15.80963	0.1396732	0.23718205	2.5847279	20	—	—
9263	Khariton	13.3	X	328.28119	283.55878	65.77243	2.12133	0.1817262	0.17647870	3.1478052	20	8 16.6	16.8
9264	1978 OQ	13.0	X	153.92394	358.27345	347.08759	6.06162	0.1973023	0.20035139	2.8925074	20	1 31.9	17.8
9265	Ekman	15.4	X	221.96104	328.94698	338.30257	4.01507	0.1656483	0.29642370	2.2277208	20	2 2.5	18.7
9266	Holger	13.5	X	64.02278	224.63322	168.28308	2.08890	0.1087926	0.19594146	2.9357461	20	—	—
9267	Lokrume	13.8	X	111.78449	214.69545	131.60307	2.92976	0.0967586	0.19648593	2.9303202	20	—	—
9268	1978 VZ_2	14.3	X	11.59881	22.67240	67.36709	1.66361	0.0836358	0.23942201	2.5685814	20	—	—
9269	1978 VW_6	14.3	X	38.64372	177.64827	242.90941	13.15810	0.1528082	0.23963692	2.5670455	20	—	—
9270	1978 VO_8	13.3	X	213.77649	41.93641	109.98840	2.51560	0.1455323	0.18513986	3.0488502	20	10 11.8	17.9
9271	Trimble	13.1	X	211.32831	342.33143	230.95983	4.78574	0.0189121	0.18953407	3.0015427	20	—	—
9272	Liseleje	13.9	X	20.44080	146.88570	175.85877	5.19398	0.1187150	0.22489075	2.6780683	20	10 21.4	17.0
9273	Schloerb	14.6	X	8.94043	62.26838	162.45767	0.92164	0.1580431	0.26085961	2.4258549	20	5 10.4	16.7
9274	Amylovell	14.8	X	101.22553	250.17415	350.58860	6.80121	0.1583179	0.23110095	2.6298737	20	10 17.1	19.0
9275	Persson	13.5	X	26.03101	356.07132	352.83064	9.18050	0.0825844	0.18505496	3.0497827	20	11 13.9	17.7
9276	Timgrove	13.8	X	108.58375	16.45443	240.86588	5.27193	0.0741739	0.27391105	2.3481708	20	11 18.1	16.8
9277	Togashi	14.1	X	315.40720	37.95319	1.14208	7.10140	0.1188215	0.27192768	2.3595749	20	10 24.8	16.4
9278	1981 EM_1	13.0	X	34.92020	330.23971	120.02257	2.34363	0.1585443	0.17481002	3.1678054	20	1 4.0	16.4
9279	Seager	14.4	X	126.39803	260.75456	209.66486	8.31075	0.1868917	0.25649576	2.4532921	20	6 3.2	18.2
9280	Stevenjoy	14.8	X	195.35799	64.16797	319.08518	7.34562	0.1668925	0.25457022	2.4656474	20	4 12.2	18.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
9281 Weryk	14.6	X	198.25275	137.05070	272.05505	2.19686	0.1714356	0.25706564	2.4496650	20	5 21.0	18.3
9282 Lucylim	15.2	X	289.95224	90.72832	254.88877	3.98379	0.1769062	0.30789664	2.1720313	20	6 8.9	17.5
9283 Martinelvis	14.4	X	171.89141	246.82592	169.14096	2.23377	0.1589574	0.25639882	2.4539104	20	5 6.2	18.2
9284 Juansanchez	14.1	X	40.79436	243.78636	167.15675	9.41672	0.0249553	0.19535254	2.9416433	20	—	—
9285 Le Corre	13.5	X	91.14311	88.94352	313.60403	1.13568	0.0610069	0.19833923	2.9120375	20	1 13.9	17.2
9286 Patricktaylor	15.0	X	162.74644	85.83695	1.06471	1.58828	0.2111572	0.25799433	2.4437828	20	6 6.9	19.1
9287 Klima	14.2	X	105.72226	101.65674	278.78467	0.92448	0.0951650	0.19775407	2.9177793	20	1 10.0	18.2
9288 Santos–Sanz	15.5	X	290.78445	354.69247	328.85135	1.23537	0.1971383	0.30621640	2.1799695	20	5 2.9	17.8
9289 Balau	13.2	X	113.32786	315.47684	354.39318	13.48378	0.1556399	0.23519279	2.5992819	20	—	—
9290 1981 TT	14.8	X	169.09777	130.96152	204.85166	4.24305	0.1951971	0.29078467	2.2564292	20	1 21.2	18.3
9291 Alanburdick	13.0	X	348.29215	221.59455	160.29450	10.09892	0.0992334	0.18396235	3.0618466	20	11 8.5	16.9
9292 1982 UE_2	15.1	X	216.14918	324.90963	39.41667	4.34465	0.2846627	0.30295401	2.1955917	20	4 6.1	18.9
9293 Kamogata	12.8	X	27.55924	77.68345	149.35772	1.74684	0.1233511	0.17291379	3.1909228	20	6 16.8	16.7
9294 1983 EV	13.2	X	108.26710	147.26140	11.49274	3.61357	0.1087853	0.21859547	2.7292413	20	7 8.3	17.2
9295 Donaldyoung	14.3	X	354.12650	322.10795	0.07313	6.28516	0.1399801	0.26666539	2.3905158	20	9 15.4	16.4
9296 1983 RB_2	13.9	X	286.69557	180.71840	175.36478	13.41876	0.1210465	0.26319656	2.4114739	20	6 27.9	17.1
9297 Marchuk	12.4	X	64.94720	37.19580	225.42626	12.71341	0.1543382	0.22410105	2.6843561	20	10 3.8	16.3
9298 Geake	13.2	X	119.29359	120.18366	211.80963	12.11042	0.2979553	0.23891267	2.5722307	20	—	—
9299 Vinceteri	13.1	X	238.07748	198.54974	40.09992	4.86458	0.1596308	0.24371085	2.5383576	20	—	—
9300 Johannes	14.4	X	346.18529	224.61078	149.22857	7.47911	0.3561859	0.22694338	2.6618957	20	12 6.4	16.4
9301 1985 RB_4	15.5	X	182.02010	148.99482	159.48053	1.45269	0.2227494	0.29626884	2.2284971	20	1 1.2	19.1
9302 1985 TB_3	14.4	X	238.00570	188.65369	176.47314	3.87601	0.1506026	0.30275942	2.1965324	20	5 4.5	17.4
9303 1986 QH_3	14.0	X	117.73471	270.93282	124.12618	6.09458	0.1000732	0.24701834	2.5156483	20	2 5.7	17.2
9304 1986 RA_5	14.1	X	144.98215	210.85466	125.85726	6.44459	0.2126348	0.24546685	2.5262373	20	1 7.9	17.9
9305 Hazard	14.7	X	238.57422	218.75411	100.82372	3.70569	0.1751646	0.30961784	2.1639741	20	3 3.8	17.8
9306 Pittosporum	13.0	X	187.10710	266.20606	4.98038	1.54575	0.0207045	0.20199954	2.8767522	20	—	—
9307 Regiomontanus	14.4	X	51.93585	7.92341	321.66050	6.58145	0.1432546	0.27423913	2.3462976	20	12 25.0	17.7
9308 Randyrose	14.2	X	335.68144	29.37916	291.29500	7.37341	0.2190632	0.26678582	2.3897963	20	7 29.5	15.8
9309 Platanus	13.5	X	256.56593	288.61292	113.23825	2.62397	0.1769546	0.17262617	3.1944661	20	7 7.6	18.3
9310 1987 SV_{12}	13.1	X	323.13655	275.41558	74.98802	2.49236	0.2117104	0.17695188	3.1421911	20	8 4.5	16.4
9311 1987 UV_1	14.3	X	278.46730	25.09457	329.28664	1.83009	0.1416665	0.26276794	2.4140956	20	6 9.7	17.4
9312 1987 VE_2	12.8	X	259.43902	216.29550	273.28979	8.03251	0.1108159	0.20943888	2.8082203	20	11 12.5	16.6
9313 Protea	13.8	X	135.14160	299.60256	290.85041	13.03569	0.1521038	0.23050324	2.6344180	20	11 2.5	18.3
9314 1988 DJ_1	14.0	X	192.93325	269.01328	149.84352	5.35604	0.1891532	0.25455396	2.4657525	20	5 29.7	18.1
9315 Weigel	14.5	X	215.25794	12.39482	353.95246	2.46575	0.1715860	0.26820710	2.3813462	20	4 11.4	18.1
9316 Rhamnus	12.6	X	351.56250	208.67506	181.24620	10.55809	0.0694421	0.18939803	3.0029798	20	11 21.8	16.6
9317 1988 RO_4	13.0	X	345.08211	245.65951	161.48219	11.06258	0.1170934	0.18972246	2.9995554	20	12 7.1	16.8
9318 1988 RG_9	15.2	X	169.92692	260.67427	121.04739	3.06343	0.1242506	0.29740160	2.2228348	20	3 17.7	18.3
9319 Hartzell	15.2	X	216.11162	97.59672	165.46585	2.93878	0.1535896	0.29259712	2.2471015	20	—	—
9320 1988 VN_3	14.9	X	19.51626	215.68835	227.05083	4.86641	0.1289534	0.28514011	2.2861103	20	—	—
9321 Alexkonopliv	13.0	X	274.53498	358.65226	89.02091	4.33574	0.2690098	0.18093038	3.0959580	20	9 15.1	17.2
9322 Lindenau	13.5	X	304.63591	246.05089	136.58631	1.99545	0.1612676	0.17447178	3.1718983	20	8 20.2	17.2
9323 Hirohisasato	14.6	X	235.00752	359.70238	99.51240	5.49820	0.1692836	0.26951406	2.3736413	20	9 6.9	17.9
9324 1989 CH_4	14.0	X	76.95001	232.22380	328.09854	2.04485	0.1558577	0.26251166	2.4156665	20	8 4.0	17.1
9325 Stonehenge	13.7	X	115.11666	302.42366	211.50994	5.89534	0.0660816	0.26016904	2.4301457	20	7 5.4	17.0
9326 Ruta	14.0	X	276.79316	173.88469	128.86109	5.25934	0.0447866	0.21154353	2.7895633	20	4 16.8	17.8
9327 Duerbeck	13.0	X	265.56188	131.49518	83.32774	5.74451	0.1513288	0.20249550	2.8720531	20	—	—
9328 1990 DL_3	13.5	X	50.79694	291.52123	351.77907	7.11267	0.1931457	0.27446006	2.3450384	20	10 27.9	16.8
9329 Nikolaimedtner	13.9	X	175.41159	21.01739	243.80184	5.98238	0.0905609	0.28445873	2.2897595	20	—	—
9330 1990 EF_7	13.0	X	9.91703	117.79395	133.00361	2.04300	0.1383213	0.17203968	3.2017221	20	6 19.6	16.8
9331 Fannyhensel	14.3	X	229.06931	284.48241	13.61339	4.43619	0.0550013	0.21649584	2.7468589	20	2 11.8	18.2
9332 1990 SB_1	13.1	X	227.88232	211.83547	346.39335	12.65681	0.1089193	0.23777050	2.5804616	20	—	—
9333 Hiraimasa	12.8	X	50.44877	2.64293	32.39334	17.10885	0.1752232	0.23756117	2.5819773	20	—	—
9334 Moesta	13.4	X	67.53183	99.23176	188.97514	11.88225	0.1740086	0.23091965	2.6312500	20	11 16.2	17.4
9335 1991 AA_1	13.2	X	226.08834	302.31962	85.41117	4.81490	0.0942284	0.21492870	2.7601951	20	5 27.4	17.3
9336 Altenburg	15.2	X	186.86015	254.43056	327.94426	0.74448	0.1015602	0.29379287	2.2410001	20	—	—
9337 1991 FO_1	13.4	X	108.57659	70.48896	355.51811	1.52704	0.0635207	0.20379258	2.8598537	20	3 4.5	17.2
9338 1991 FL_4	12.4	X	29.78626	104.24626	181.97452	13.74104	0.1992264	0.17889238	3.1194269	20	9 18.3	16.1
9339 Kimnovak	13.6	X	38.44188	63.00904	163.81063	0.87318	0.1386584	0.17542946	3.1603440	20	7 6.0	17.5
9340 Williamholden	13.1	X	12.01656	148.99762	103.93169	2.26791	0.1508731	0.17199311	3.2023000	20	6 27.1	16.8
9341 Gracekelly	14.5	X	11.15282	244.32891	82.17292	1.32830	0.0887145	0.24179581	2.5517426	20	10 11.0	17.3
9342 Carygrant	14.5	X	87.42139	24.69168	337.76156	5.48808	0.1723038	0.28478195	2.2880267	20	—	—
9343 1991 PO_{11}	13.9	X	63.88567	109.49837	186.83898	6.36880	0.1227399	0.27650867	2.3334413	20	11 24.4	17.1
9344 Klopstock	14.2	X	198.91855	156.98496	340.30118	5.03185	0.0884709	0.27114680	2.3641030	20	9 21.9	17.4
9345 1991 RA_{10}	14.3	X	59.20203	46.22598	263.99725	5.40243	0.0662495	0.27596777	2.3364893	20	11 28.3	17.1
9346 Fernandel	13.9	X	144.55545	299.94672	107.47436	3.20463	0.1766196	0.26045444	2.4283701	20	3 31.9	17.7
9347 1991 RY_{21}	13.7	X	341.09287	129.12589	101.92543	3.31028	0.1570106	0.26348414	2.4097189	20	3 23.1	15.9
9348 1991 RH_{25}	13.6	X	89.98896	289.30353	68.27456	7.09384	0.1648391	0.28232721	2.3012699	20	—	—
9349 Lucas	15.5	X	90.68743	217.61714	116.50814	6.68832	0.1909346	0.28238864	2.3009362	20	—	—
9350 Waseda	14.3	X	302.97169	219.31653	159.06366	2.60590	0.2229553	0.26926864	2.3750834	20	8 15.1	16.2
9351 Neumayer	15.1	X	342.61823	102.10301	246.40362	2.81819	0.1420754	0.27221623	2.3579072	20	10 2.7	17.1
9352 1991 UB_4	13.1	X	122.25614	325.15167	189.41531	3.73828	0.1246507	0.22797887	2.6538293	20	7 19.2	17.2
9353 1991 VM_4	14.4	X	275.21837	32.55235	27.06077	2.97633	0.1806365	0.26779167	2.3838083	20	9 4.2	16.9
9354 1991 VF_7	13.6	X	31.71833	353.61536	244.01119	5.46813	0.0336932	0.26183205	2.4198448	20	7 1.4	16.4
9355 1991 XO_2	14.8	X	303.19138	199.58897	223.36761	4.40734	0.2058329	0.27141586	2.3625403	20	11 2.8	16.4
9356 Elineke	12.4	X	245.19414	2.47308	109.07375	14.00605	0.1002338	0.23301604	2.6154445	20	10 16.3	16.2
9357 Venezuela	13.6	X	349.06440	150.05878	241.70948	1.00516	0.0765744	0.19983560	2.8974825	20	11 21.8	17.2
9358 Fårö	13.3	X	24.84098	216.84326	126.70411	3.30628	0.0887065	0.22924029	2.6440850	20	11 20.7	16.6
9359 Fleringe	13.5	X	339.26551	62.88340	349.59602	8.48821	0.0814007	0.23275139	2.6174267	20	12 12.9	16.8
9360 1992 EV_{13}	13.7	X	178.33249	299.55616	226.02007	0.98392	0.0329487	0.19244304	2.9712184	20	9 28.4	17.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
9361 1992 EM_{18}	14.3	X	57.31498	118.25009	207.21234	6.18344	0.0946595	0.23075901	2.6324710	20	12 9.7	17.9
9362 Miyajima	12.9	X	320.18043	330.45034	50.81522	5.09544	0.1262920	0.22493319	2.6777315	20	9 29.9	15.7
9363 1992 GR	13.3	X	248.88347	66.38181	61.55643	13.92974	0.1330308	0.22887133	2.6469259	20	11 1.9	16.8
9364 Clusius	13.1	X	347.43308	228.37166	13.08041	2.70231	0.0747889	0.21204045	2.7852033	20	4 28.6	16.5
9365 Chinesewilson	14.5	X	132.14001	271.63373	330.57786	4.01047	0.0782037	0.28829793	2.2693860	20	11 27.0	17.6
9366 1992 WR_1	14.0	X	111.71200	227.80479	98.18537	7.72938	0.2051595	0.29018969	2.2595124	20	—	—
9367 1993 BO_3	14.3	X	37.97036	355.92866	84.58539	4.59262	0.1437458	0.28749714	2.2735981	20	—	—
9368 Esashi	13.5	X	272.63407	212.95402	295.38074	6.85398	0.1179004	0.28080721	2.3095669	20	—	—
9369 1993 DB_1	13.6	X	217.50256	107.12102	97.49907	0.22397	0.1501789	0.27738586	2.3285193	20	—	—
9370 1993 FC_{22}	14.6	X	327.86286	114.82021	187.48803	1.48080	0.1360077	0.25999536	2.4312278	20	6 17.2	16.9
9371 1993 FV_{31}	13.9	X	102.01945	36.00254	107.03637	3.31286	0.0403484	0.25963621	2.4334693	20	5 31.2	16.8
9372 Vamlingbo	14.0	X	356.01019	350.02396	41.94048	2.54520	0.0778351	0.20142277	2.8822414	20	12 2.5	17.6
9373 Hamra	14.7	X	87.39835	300.08226	352.09885	2.37960	0.1331699	0.23561082	2.5962065	20	12 5.9	18.7
9374 Sundre	14.4	X	34.43275	69.88425	341.03691	1.01446	0.1874462	0.28147718	2.3059006	20	—	—
9375 Omodaka	14.0	X	113.36394	36.78539	129.84469	3.47470	0.1290623	0.26274854	2.4142144	20	7 28.7	17.5
9376 Thionville	13.4	X	317.92266	193.78575	164.18625	2.01970	0.0438368	0.22175655	2.7032430	20	8 26.1	16.8
9377 Metz	13.3	X	77.65013	327.93340	332.52388	2.18100	0.0424139	0.18852474	3.0122463	20	11 16.1	17.7
9378 Nancy–Lorraine	13.2	X	51.06339	38.22399	153.03913	2.07366	0.1159679	0.17412177	3.1761475	20	6 5.4	17.3
9379 Dijon	13.4	X	162.40481	120.85196	277.42533	0.91859	0.0868654	0.20580567	2.8411740	20	4 2.3	17.5
9380 Mâcon	13.6	X	61.80373	293.74497	170.78695	2.11032	0.0311428	0.20303957	2.8669201	20	2 16.8	17.4
9381 Lyon	12.8	X	317.21620	99.81973	355.95094	1.13421	0.0606464	0.18972864	2.9994903	20	12 23.3	16.7
9382 Mihonoseki	14.6	X	128.22430	209.15852	182.19972	3.75227	0.1432293	0.30994588	2.1624470	20	2 9.9	17.3
9383 Montélimar	14.1	X	79.61075	153.47006	126.25167	2.21894	0.1638192	0.18520546	3.0481302	20	11 8.5	18.6
9384 Aransio	12.9	X	96.48113	78.06240	121.71543	3.32084	0.1149566	0.17648920	3.1476804	20	8 14.2	17.5
9385 Avignon	13.3	X	331.99294	109.15834	188.48162	14.47597	0.2512521	0.17649302	3.1476350	20	6 3.7	16.8
9386 Hitomi	13.6	X	268.24687	187.00336	201.08095	1.41614	0.2295515	0.17243360	3.1968440	20	6 26.5	18.3
9387 Tweedledee	13.9	X	3.14532	56.40409	332.95834	21.66066	0.0889734	0.36510700	1.9387536	20	—	—
9388 Takeno	14.9	X	191.26053	196.37621	97.29925	4.74490	0.1923015	0.29243540	2.2479298	20	—	—
9389 Condillac	14.9	X	191.32840	163.47046	114.65727	4.95878	0.1159387	0.29332312	2.2433921	20	—	—
9390 1994 NJ_1	14.7	X	29.93423	84.77671	223.50657	1.50391	0.2168733	0.27076749	2.3663104	20	11 9.5	17.3
9391 Slee	13.9	X	258.28331	161.72140	134.71332	12.01331	0.3102865	0.21678999	2.7443736	20	2 19.3	18.7
9392 Cavaillon	14.2	X	232.08185	229.02426	150.17963	6.47664	0.1268135	0.25805745	2.4433843	20	5 21.0	17.8
9393 Apta	13.7	X	164.70927	42.94897	165.28624	4.37698	0.1013226	0.23437146	2.6053510	20	11 10.5	17.6
9394 Manosque	13.7	X	331.67368	281.71770	346.54852	3.17114	0.0530938	0.21980652	2.7192074	20	5 12.0	17.0
9395 Saint Michel	13.8	X	169.57620	303.54512	258.48046	2.33934	0.1025003	0.23483615	2.6019129	20	11 6.0	17.8
9396 Yamaneakisato	13.5	X	268.38826	331.60032	11.95419	1.90092	0.1706759	0.18191067	3.0848255	20	5 9.4	18.1
9397 Lombardi	15.4	X	163.67726	106.41030	216.08064	3.17290	0.1476805	0.24630688	2.5204902	20	1 2.4	19.1
9398 Bidelman	13.9	X	92.55714	127.36591	205.96563	1.26814	0.1425946	0.16119785	3.3437199	20	—	—
9399 Pesch	13.7	X	92.41890	287.29249	28.34778	3.75839	0.1550601	0.23611736	2.5924921	20	—	—
9400 1994 TW_1	14.9	X	32.30146	62.17821	3.35060	35.98761	0.5800582	0.23660516	2.5889276	20	—	—
9401 1994 TS_3	12.9	X	341.12629	314.95687	34.04989	14.24133	0.2028354	0.22484282	2.6784489	20	9 28.8	15.4
9402 1994 UN_1	12.3	X	78.16049	157.35857	216.94296	9.97199	0.1234277	0.16080778	3.3491249	20	—	—
9403 Sanduleak	13.2	X	19.01891	221.53747	78.58294	4.28906	0.0960225	0.22381331	2.6866563	20	9 16.1	16.4
9404 1994 UQ_{11}	13.5	X	182.11764	67.24118	21.34858	4.97030	0.0912179	0.21635666	2.7480367	20	6 26.8	17.7
9405 Johnratje	13.3	X	113.36932	6.71347	44.92722	2.72877	0.0693329	0.20249733	2.8720358	20	2 23.6	17.2
9406 1994 WG_2	13.3	X	216.83371	298.13025	156.27925	5.88884	0.0692194	0.21899840	2.7258927	20	8 13.8	17.2
9407 Kimuranaoto	13.9	X	302.59836	234.80495	207.72738	5.20963	0.2569249	0.22722621	2.6596864	20	11 10.7	15.9
9408 Haseakira	13.5	X	73.77578	270.00559	114.59886	3.15111	0.1086930	0.19446957	2.9505407	20	—	—
9409 Kanpuzan	13.4	X	264.74336	11.12271	59.40730	1.70731	0.2025114	0.17798395	3.1300323	20	8 19.9	17.7
9410 1995 BJ_1	12.6	X	126.16934	32.21981	96.44503	2.28883	0.1154033	0.16925882	3.2366956	20	6 18.4	17.6
9411 Hitomiyamoto	13.1	X	237.83327	299.27202	111.90376	6.35163	0.1382290	0.17144465	3.2091259	20	7 3.4	17.9
9412 1995 GZ_8	13.9	X	130.43961	206.93939	166.51997	4.34947	0.0754757	0.26787194	2.3833321	20	1 16.6	16.9
9413 Eichendorff	14.7	X	340.98282	257.85416	74.82101	4.09211	0.1913160	0.27455864	2.3444770	20	9 10.7	16.3
9414 Masamimurakami	12.6	X	0.54971	182.87156	56.30716	12.19533	0.1381694	0.26151387	2.4218072	20	5 15.2	14.6
9415 Yujiokimura	15.5	X	204.82048	35.77231	5.00895	3.07560	0.0705276	0.30198089	2.2003060	20	5 19.7	18.4
9416 Miyahara	14.7	X	55.28217	102.95483	271.84770	3.86873	0.1680348	0.28338018	2.2955658	20	—	—
9417 Jujiishii	13.8	X	207.60820	220.88362	269.65838	5.67583	0.2208056	0.26939537	2.3743385	20	9 7.6	17.7
9418 Mayumi	16.2	X	234.53157	310.01536	65.54323	0.89128	0.2036575	0.30435472	2.1888501	20	5 9.4	19.5
9419 Keikochaki	14.4	X	130.98346	163.77238	243.29095	4.48179	0.1402163	0.29392994	2.2403034	20	3 5.9	17.4
9420 Dewar	14.3	X	321.80778	334.65477	197.53117	4.77670	0.0898055	0.28813345	2.2702495	20	—	—
9421 Violilla	15.0	X	238.39425	27.12356	70.89985	4.08822	0.1298075	0.26860980	2.3789655	20	9 15.0	18.1
9422 Kuboniwa	14.1	X	154.05066	43.54664	27.23686	1.44181	0.1562905	0.25524068	2.4613278	20	5 7.1	17.9
9423 Abt	12.6	X	338.08141	218.47486	106.15135	8.84987	0.1020480	0.22280343	2.6947685	20	8 11.1	15.6
9424 Hiroshinishiyama	14.5	X	260.34064	329.64687	87.91817	2.44775	0.1734625	0.26578104	2.3958156	20	8 9.8	17.3
9425 Marconcini	14.1	X	43.31968	55.85632	339.61614	9.22206	0.2253468	0.27873693	2.3209888	20	—	—
9426 Aliante	13.6	X	171.30592	275.21384	66.02948	2.95273	0.0676566	0.20316515	2.8657386	20	2 2.9	17.8
9427 Righini	13.1	X	102.40143	157.87209	142.71058	10.92565	0.0908392	0.18983366	2.9983839	20	12 19.9	17.8
9428 Angelalouise	13.2	X	283.54575	235.09061	142.87367	17.58233	0.1826145	0.22084799	2.7106519	20	7 12.1	16.8
9429 Poreč	13.3	X	38.64295	20.38665	329.56597	1.55130	0.0745517	0.18722332	3.0261893	20	12 3.7	17.5
9430 Erichthonios	11.3	X	303.88424	310.67526	326.43307	1.00309	0.0546076	0.08160070	5.2642937	20	4 21.8	18.0
9431 1996 PS_1	10.6	X	324.19405	185.04616	201.48733	21.33464	0.0865064	0.08516904	5.1162084	20	9 15.1	17.2
9432 Iba	14.6	X	117.21855	43.05208	145.14111	7.16814	0.0342936	0.27237449	2.3569937	20	8 24.3	17.5
9433 1997 CF_3	14.2	X	79.46892	57.57328	162.38199	5.61810	0.0924956	0.27166752	2.3610811	20	8 25.7	17.2
9434 Bokusen	15.2	X	184.63635	220.83853	54.05165	2.71695	0.1414166	0.28761509	2.2729765	20	—	—
9435 Odafukashi	14.5	X	47.98182	211.97113	15.55568	4.11762	0.0717505	0.30932022	2.1653620	20	7 23.3	16.7
9436 Shudo	13.7	X	324.72982	127.69429	112.82107	3.59859	0.1484164	0.25743667	2.4473107	20	3 10.2	16.5
9437 Hironari	14.3	X	8.11122	338.30990	111.40412	5.47842	0.0178266	0.28821909	2.2697998	20	—	—
9438 Satie	15.9	X	234.99331	126.24988	183.55670	3.84622	0.1991114	0.29569947	2.2313568	20	2 14.7	19.4
9439 1997 EB_{42}	15.8	X	195.53453	327.07855	285.91069	2.21184	0.1164728	0.28722490	2.2750345	20	—	—
9440 1997 FZ_1	14.6	X	101.48286	182.41043	8.79404	0.30954	0.1458330	0.26675982	2.3899516	20	8 19.8	17.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
9441 1997 GN_8	13.9	X	310.59711	282.19019	30.23388	5.17120	0.1571472	0.17385870	3.1793507	20	5 27.2	18.0
9442 1997 GQ_{27}	12.7	X	26.77812	271.53602	112.65295	14.13834	0.1870926	0.23602110	2.5931969	20	—	—
9443 1997 HR_9	15.0	X	269.29375	301.73714	58.02619	1.76784	0.1524525	0.26042370	2.4285611	20	6 2.9	18.0
9444 1997 JA	13.0	X	101.66360	76.13614	84.76803	2.30101	0.0809041	0.17655456	3.1469035	20	6 27.5	17.6
9445 Charpentier	15.2	X	349.99691	209.43064	194.58989	2.07658	0.1331440	0.27552069	2.3390163	20	—	—
9446 Cicero	13.1	X	7.30045	92.93664	163.38419	1.49978	0.1371539	0.17535894	3.1611912	20	6 22.5	16.7
9447 Julesbordet	13.2	X	303.16429	240.64006	87.23224	9.88038	0.1484008	0.21594530	2.7515255	20	6 8.4	16.6
9448 Donaldavies	14.0	X	183.81064	319.80835	145.49117	3.71560	0.0329705	0.21988510	2.7185596	20	7 21.9	17.7
9449 Petrbondy	12.6	X	261.06748	308.84621	292.99663	8.89841	0.0574904	0.19046907	2.9917118	20	1 12.3	16.7
9450 1998 BT_1	14.7	X	77.22350	51.25672	357.65176	4.24610	0.1301806	0.31079168	2.1585219	20	—	—
9451 1998 BE_2	13.1	X	251.52171	63.95221	150.31837	1.83296	0.1184396	0.17306552	3.1890575	20	—	—
9452 Rogerpeeters	14.5	X	173.95017	302.58570	129.66727	4.03837	0.2978584	0.23537625	2.5979311	20	5 30.6	19.3
9453 Mallorca	13.2	X	315.10643	187.45510	158.12751	10.44632	0.0896001	0.19118275	2.9842617	20	7 27.2	17.1
9454 1998 FX_{54}	13.5	X	297.88738	258.09393	81.64334	1.00558	0.0546920	0.18867943	3.0105997	20	6 29.3	17.6
9455 1998 FJ_{56}	13.2	X	153.20610	251.56073	42.09255	4.29547	0.0090573	0.20985003	2.8045511	20	—	—
9456 1998 FQ_{67}	13.3	X	39.43621	196.44067	102.78563	3.61061	0.0977662	0.19476464	2.9475599	20	10 9.6	17.1
9457 1998 FB_{75}	13.2	X	71.25607	50.93323	32.02883	0.46767	0.1741390	0.17459146	3.1704486	20	2 25.4	17.2
9458 1998 FF_{97}	14.0	X	124.50144	320.16401	254.33323	4.22890	0.1565124	0.24075980	2.5590576	20	10 8.3	18.0
9459 1998 FW_{113}	13.7	X	78.73660	289.81290	319.47394	4.77107	0.1688772	0.28173645	2.3044858	20	10 13.0	17.0
9460 McGlynn	12.9	X	182.00939	349.46509	70.33591	13.67844	0.1537997	0.22680653	2.6629663	20	5 21.4	17.1
9461 1998 HV_{33}	14.1	X	168.46503	55.06248	295.04237	1.21996	0.0402186	0.21723716	2.7406062	20	2 5.6	17.9
9462 1998 HC_{37}	14.2	X	278.66967	359.08053	323.04646	1.56843	0.2201151	0.26901532	2.3765742	20	4 13.2	17.3
9463 Criscione	14.2	X	70.84568	21.41176	248.37245	0.84292	0.0538071	0.19483439	2.9468564	20	10 4.0	18.3
9464 1998 HL_{117}	13.1	X	110.56867	243.39823	99.45838	7.95839	0.2963420	0.20346830	2.8628915	20	—	—
9465 1998 HJ_{121}	13.5	X	342.73166	119.64540	184.85923	11.00631	0.1012548	0.18544431	3.0455124	20	7 14.2	17.4
9466 Shishir	14.3	X	9.42936	167.52439	201.11422	5.49738	0.1766510	0.28225939	2.3016385	20	12 29.3	16.9
9467 1998 KQ_{47}	13.0	X	301.47246	113.35160	194.16663	5.37754	0.2557413	0.17675227	3.1445563	20	4 23.6	17.1
9468 Brewer	14.5	X	1.73010	159.00107	197.23649	10.00887	0.1429963	0.27884883	2.3203678	20	11 24.9	17.0
9469 Shashank	15.4	X	17.12728	79.16784	213.86774	2.75613	0.1722933	0.27210439	2.3585533	20	9 19.3	17.5
9470 Jussieu	13.8	X	316.02228	174.07815	162.96670	2.03838	0.1810588	0.17588705	3.1548603	20	7 5.9	17.5
9471 Ostend	13.4	X	162.22168	109.13015	310.20626	2.43669	0.0856050	0.21159412	2.7891187	20	4 27.5	17.6
9472 Bruges	13.7	X	45.57621	128.44875	178.23733	1.05281	0.1616215	0.18443024	3.0566658	20	11 1.8	17.8
9473 Ghent	14.4	X	168.54651	292.10392	139.70288	4.18484	0.0288097	0.21459957	2.7630165	20	5 20.7	18.4
9474 Cassadrury	14.2	X	78.31674	155.89922	210.61723	5.02670	0.1835374	0.28501320	2.2867888	20	—	—
9475 1998 QC_{19}	13.2	X	350.69319	167.71517	103.10336	3.59195	0.1389155	0.17468532	3.1693129	20	6 12.1	16.7
9476 1998 QQ_{36}	14.0	X	269.66239	96.91034	204.11315	4.48817	0.1096260	0.25668049	2.4521149	20	3 20.8	17.5
9477 Kefennell	15.2	X	226.13516	22.35315	183.97627	1.78780	0.0500446	0.28390766	2.2927215	20	—	—
9478 Caldeyro	14.1	X	59.80136	275.56287	4.05117	4.69258	0.1430870	0.18151133	3.0893484	20	10 12.9	18.4
9479 Madresplazamayo	15.1	X	111.97726	282.73712	352.39346	4.54039	0.0925368	0.23264376	2.6182339	20	12 6.5	19.1
9480 Inti	13.2	X	263.07473	65.90800	353.56106	0.58168	0.1501893	0.17789637	3.1310595	20	8 10.7	17.5
9481 Menchú	14.1	X	295.91519	93.61355	74.48175	2.74036	0.0943919	0.28492880	2.2872404	20	—	—
9482 Rubéndarío	15.6	X	115.03382	14.95748	301.75475	2.79922	0.1856887	0.28442473	2.2899420	20	—	—
9483 Chagas	13.4	X	320.93201	183.87645	198.45252	8.70866	0.1666217	0.17983087	3.1085645	20	9 16.2	17.0
9484 Wanambi	13.5	X	8.57489	245.99015	89.68659	1.92309	0.1650100	0.18130696	3.0916696	20	10 15.6	17.1
9485 Uluru	14.8	X	336.21421	219.57573	219.56744	3.19146	0.1830999	0.23282846	2.6168490	20	—	—
9486 Utemorrah	14.7	X	122.21052	295.42549	193.14150	4.22050	0.1030091	0.25856671	2.4401750	20	6 14.4	18.1
9487 Kupe	13.7	X	214.40971	208.53460	108.73891	3.30736	0.0577849	0.20618135	2.8377216	20	2 19.6	17.9
9488 Huia	14.5	X	236.71684	187.57624	8.95812	6.32606	0.1175383	0.28438921	2.2901326	20	—	—
9489 Tanemahuta	14.4	X	94.87674	78.52005	199.56323	4.74310	0.0981928	0.23055355	2.6340348	20	11 23.6	18.3
9490 Gosemeijer	13.2	X	254.84238	231.60825	324.93983	3.57594	0.0944521	0.19514691	2.9437093	20	—	—
9491 Thooft	15.0	X	277.56843	263.50436	350.35439	5.04804	0.1333394	0.29911223	2.2143517	20	1 22.6	17.9
9492 Veltman	14.5	X	228.41450	253.03260	136.38598	2.90605	0.1355989	0.30532775	2.1841973	20	5 28.4	17.5
9493 Enescu	13.7	X	10.80537	232.25297	210.90515	7.34086	0.1677968	0.23631687	2.5910327	20	—	—
9494 Donici	14.2	X	157.15990	65.17267	6.11630	3.76982	0.0847900	0.30345628	2.1931683	20	5 4.5	17.0
9495 Eminescu	14.5	X	207.30573	21.82467	25.60462	4.64494	0.1296700	0.30499878	2.1857676	20	5 28.8	17.7
9496 Ockels	13.5	X	59.96763	328.14005	108.33046	2.94881	0.0550059	0.19798890	2.9154717	20	1 13.7	17.1
9497 Dwingeloo	13.5	X	12.22720	263.79839	178.99297	2.25518	0.1019016	0.19499705	2.9452174	20	—	—
9498 Westerbork	15.7	X	28.26607	63.29696	213.88599	1.75954	0.2072389	0.27245202	2.3565466	20	9 21.7	18.0
9499 Excalibur	13.7	X	341.52022	180.56274	294.87046	0.95167	0.0068970	0.19541813	2.9409851	20	—	—
9500 Camelot	14.4	X	349.32815	260.67631	194.31526	12.73941	0.1668984	0.23572757	2.5953492	20	—	—
9501 Ywain	14.9	X	91.69044	116.29054	212.95972	3.06757	0.2649738	0.23616937	2.5921115	20	—	—
9502 Gaimar	15.0	X	107.92340	75.46592	185.85459	4.76541	0.1978946	0.27607690	2.3358736	20	11 29.0	18.7
9503 Agrawain	13.0	X	69.99816	95.48503	6.70286	8.53450	0.0475108	0.17847347	3.1243063	20	3 3.1	17.2
9504 Lionel	13.7	X	82.79765	323.80614	41.63076	2.39207	0.0776228	0.19476933	2.9475126	20	—	—
9505 Lohengrin	13.8	X	70.05283	142.96444	50.49123	3.30045	0.2273716	0.18292203	3.0734445	20	7 22.4	18.1
9506 Telramund	13.1	X	176.64714	255.05883	301.12796	7.68894	0.0344375	0.19053682	2.9910025	20	10 31.1	17.6
9507 Gottfried	14.4	X	66.61451	334.49182	314.21410	8.41800	0.2301776	0.27521853	2.3407279	20	11 26.0	18.2
9508 Titurel	14.3	X	243.15173	345.33510	178.85361	4.69263	0.0511772	0.27909945	2.3189786	20	—	—
9509 Amfortas	14.7	X	135.70619	72.60964	187.40599	6.68989	0.1500595	0.27955055	2.3164832	20	12 21.3	18.3
9510 Gurnemanz	13.7	X	117.20472	73.96629	142.79604	10.12723	0.0198488	0.18229973	3.0804349	20	9 20.8	18.1
9511 Klingsor	13.2	X	53.94571	1.84039	65.90289	10.43093	0.1395365	0.21397208	2.7684157	20	—	—
9512 Feijunlong	12.6	X	231.73097	359.06706	149.36562	14.01775	0.1077757	0.22947603	2.6422739	20	11 11.4	16.5
9513 1971 UN	13.5	X	273.18762	296.09423	37.06673	7.71583	0.2369717	0.25654538	2.4529757	20	4 21.3	16.8
9514 Deineka	14.6	X	71.86853	254.59051	61.78743	2.39151	0.2603943	0.27724448	2.3293108	20	—	—
9515 Dubner	13.0	X	314.31843	315.03142	25.36093	23.71850	0.2256561	0.26130687	2.4230860	20	7 11.9	15.9
9516 Inasan	13.4	X	259.90730	227.46182	172.26756	2.44106	0.1964268	0.17103394	3.2142613	20	7 5.9	18.2
9517 Niehaisheng	14.1	X	41.22874	329.24726	49.97767	5.80382	0.2291399	0.23376882	2.6098266	20	—	—
9518 Robbynaish	14.3	X	253.80932	308.36974	157.47613	7.96931	0.1429215	0.27123212	2.3636072	20	10 16.1	17.1
9519 1978 VK_3	13.8	X	241.36710	328.12437	253.55432	4.50337	0.0829363	0.23959176	2.5673680	20	—	—
9520 1978 VV_6	15.1	X	199.00772	275.45335	47.45851	2.81839	0.2050947	0.29269617	2.2465945	20	2 2.9	18.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
9521 Martinhoffmann	15.2	X	226.08131	68.63619	194.02020	4.10320	0.1449656	0.28983316	2.2613650	20	—	—
9522 Schlichting	12.5	X	24.82953	209.92924	238.87695	9.86375	0.0598381	0.14619544	3.5687284	20	—	—
9523 Torino	14.3	X	86.53864	19.65956	145.30239	2.93419	0.1321893	0.25695586	2.4503626	20	6 23.8	17.4
9524 O'Rourke	14.7	X	277.89167	10.03758	286.96026	4.94230	0.2256617	0.30256331	2.1974814	20	3 5.1	17.8
9525 Amandasickafoose	14.3	X	201.42925	61.98351	329.66121	7.45752	0.0994634	0.25566335	2.4586143	20	4 30.6	18.2
9526 Billmckinnon	14.5	X	261.47586	282.74418	310.08176	6.56535	0.0256027	0.19759876	2.9193079	20	1 4.5	18.6
9527 1981 EH_{23}	15.2	X	218.35853	164.91235	273.72129	1.06077	0.1175382	0.26049537	2.4281157	20	7 23.9	18.6
9528 Küppers	14.7	X	127.30115	23.98553	29.28121	2.21478	0.0711907	0.20199238	2.8768202	20	3 12.9	18.7
9529 Protopapa	15.4	X	210.62659	22.00266	78.57193	0.33845	0.1579477	0.26167481	2.4208141	20	8 10.4	18.8
9530 Kelleymichael	14.1	X	106.21765	140.68100	292.37967	0.89403	0.0492410	0.20154066	2.8811172	20	3 8.1	18.1
9531 Jean–Luc	13.9	X	212.35235	354.65444	359.55337	5.81243	0.1862901	0.29513801	2.2341858	20	3 22.9	17.2
9532 Abramenko	12.9	X	126.78605	91.49547	230.63901	10.17642	0.1823660	0.23587184	2.5942908	20	—	—
9533 Aleksejleonov	13.5	X	20.76766	355.05060	54.62916	6.60851	0.1753520	0.23270568	2.6177694	20	—	—
9534 1981 TP	12.9	X	325.22349	337.78049	26.20558	0.98677	0.1984652	0.17532214	3.1616336	20	8 28.8	16.4
9535 Plitchenko	14.1	X	114.59185	299.32670	115.34195	3.99810	0.1433128	0.29024927	2.2592032	20	2 29.4	16.8
9536 Statler	12.2	X	132.01514	205.07637	12.78734	13.44011	0.1125101	0.22738879	2.6584185	20	10 16.4	16.4
9537 Nolan	13.5	X	205.95325	204.19932	307.15471	3.44565	0.1455098	0.22217443	2.6998523	20	10 5.1	17.7
9538 1982 UM_2	13.7	X	131.36898	250.51806	158.82149	2.27055	0.1408463	0.24623572	2.5209758	20	3 16.6	17.2
9539 Prishvin	13.6	X	338.49195	226.27631	172.45869	1.33099	0.1751604	0.18100302	3.0951296	20	11 13.8	16.9
9540 Mikhalkov	13.0	X	294.47097	334.36001	111.12406	2.56116	0.1479110	0.18094078	3.0958393	20	10 29.3	16.6
9541 Magri	13.7	X	189.39309	343.33886	97.91326	5.97019	0.0942724	0.30075393	2.2062862	20	6 27.4	16.7
9542 Eryan	13.3	X	329.96508	307.38041	48.94159	8.29501	0.1162027	0.26517817	2.3994454	20	9 22.8	15.7
9543 Nitra	12.6	X	24.17574	115.91430	313.17204	8.54167	0.0742645	0.18967589	3.0000464	20	—	—
9544 Scottbirney	12.5	X	110.30525	119.89312	56.15625	5.87336	0.0988192	0.17281485	3.1921405	20	7 30.2	17.3
9545 Petrovedomosti	13.4	X	341.78057	168.25167	146.36082	10.05400	0.2743893	0.22023450	2.7156834	20	7 26.2	15.3
9546 1984 SD_6	14.2	X	97.36259	0.74787	11.88475	5.84738	0.1586489	0.28489061	2.2874448	20	—	—
9547 1985 AE	14.9	X	237.53351	345.06667	136.65626	1.79387	0.0823636	0.26970985	2.3724925	20	10 22.7	17.7
9548 Fortran	15.1	X	277.78639	286.14062	162.95205	9.65549	0.2404834	0.26908744	2.3761495	20	10 14.7	17.3
9549 Akplatonov	12.5	X	277.72107	305.51955	235.19300	11.15232	0.1082511	0.23409146	2.6074281	20	—	—
9550 Victorblanco	13.5	X	28.18901	115.97891	248.42994	8.02578	0.0857150	0.22921448	2.6442835	20	12 20.5	16.9
9551 Kazi	15.8	X	37.03072	5.81601	20.36512	8.83105	0.4195752	0.23079277	2.6322144	20	—	—
9552 1985 UY	12.2	X	157.62840	213.48002	177.67654	9.96536	0.0811767	0.15490965	3.4336055	20	3 23.6	17.3
9553 Colas	14.2	X	211.12554	252.57398	149.90909	1.92065	0.1172024	0.30238453	2.1983475	20	5 28.3	17.2
9554 Dumont	14.7	X	0.80480	37.66587	80.98328	24.87477	0.0505998	0.37484256	1.9050372	20	—	—
9555 Frejakocha	14.1	X	117.32682	168.21515	55.26866	7.17265	0.0829345	0.27164390	2.3612179	20	10 17.2	17.5
9556 Gaywray	13.3	X	263.89885	315.43298	206.68162	23.56985	0.1807925	0.27907820	2.3190963	20	—	—
9557 1986 QL_2	12.6	X	55.02747	274.75951	344.78168	3.55066	0.1562984	0.17556465	3.1587215	20	9 13.4	16.9
9558 1986 QB_3	12.9	X	312.06256	272.49184	86.56534	2.87421	0.1720035	0.17131450	3.2107511	20	7 30.7	16.6
9559 1987 DH_6	13.3	X	107.93402	344.96515	263.23488	1.40489	0.1086687	0.22299008	2.6932646	20	10 29.8	17.2
9560 Anguita	14.0	X	102.59631	238.95038	328.09268	2.35726	0.0561420	0.30813695	2.1709019	20	9 6.7	16.7
9561 van Eyck	13.9	X	154.64914	298.96552	330.70297	5.47779	0.2233205	0.28119981	2.3074167	20	—	—
9562 Memling	12.5	X	32.90116	202.32285	120.55842	3.52942	0.1752376	0.18086997	3.0966473	20	11 7.5	16.5
9563 Kitty	14.8	X	11.50516	150.76168	202.48226	1.56929	0.2241953	0.27207246	2.3587378	20	12 16.4	17.5
9564 Jeffwynn	13.9	X	75.09088	121.56072	187.08835	22.30123	0.3176516	0.27534627	2.3400039	20	—	—
9565 Tikhonov	13.8	X	69.62650	121.34535	214.37976	6.34222	0.1319983	0.27483333	2.3429145	20	—	—
9566 Rykhlova	14.0	X	27.61319	95.20388	240.35662	3.53482	0.2499645	0.27187482	2.3598808	20	12 17.9	16.9
9567 Surgut	15.0	X	340.52733	33.69486	348.98163	2.69179	0.2094448	0.26979376	2.3720005	20	11 29.1	16.8
9568 1988 AX_4	14.1	X	277.44549	170.31517	176.33447	6.16688	0.1487501	0.25942024	2.4348197	20	5 28.4	17.3
9569 Quintenmatsijs	14.0	X	277.63750	244.56886	124.84333	5.53708	0.1934820	0.25954254	2.4340548	20	6 21.8	16.9
9570 1988 RQ_5	13.2	X	181.60929	155.95285	192.99247	3.46651	0.0517926	0.20258148	2.8712404	20	2 20.7	17.5
9571 1988 RR_5	14.5	X	318.70317	260.33022	14.93044	2.51021	0.1029078	0.30234092	2.1985588	20	4 21.5	16.4
9572 1988 RS_6	15.6	X	251.45262	144.44745	187.30208	1.14148	0.2534897	0.30073580	2.2063748	20	3 24.9	19.0
9573 Matsumotomas	13.2	X	154.27834	316.65653	38.99327	2.53271	0.0917657	0.19791047	2.9162418	20	2 4.7	17.5
9574 Taku	14.0	X	43.20989	101.41597	63.22828	4.79503	0.1029799	0.29302938	2.2448911	20	4 10.5	16.1
9575 1989 BW_1	14.5	X	328.51123	28.76573	101.41025	2.71170	0.1039880	0.28011124	2.3133909	20	—	—
9576 van der Weyden	13.1	X	35.20935	117.94310	272.54986	8.62936	0.1131306	0.18376702	3.0640158	20	—	—
9577 Gropius	15.1	X	53.63648	270.58132	308.64396	1.83188	0.1273361	0.26229389	2.4170034	20	7 24.0	17.8
9578 Klyazma	14.4	X	146.67218	282.71203	226.27900	1.65217	0.1554231	0.26235960	2.4165998	20	8 10.0	18.0
9579 Passchendaele	14.4	X	101.92609	225.21977	308.46586	1.75306	0.1161140	0.26053664	2.4278592	20	7 23.5	17.6
9580 Tarumi	13.3	X	18.35389	34.70478	336.07245	4.00866	0.1319791	0.22632813	2.6667176	20	12 21.8	16.6
9581 1990 DM_3	14.4	X	256.42530	288.55603	357.73905	4.63221	0.1552435	0.29380521	2.2409374	20	2 10.0	17.7
9582 1990 EL_7	14.0	X	192.79405	178.07616	324.15986	4.55556	0.0457200	0.30926658	2.1656123	20	9 30.5	16.5
9583 1990 HL_1	14.6	X	35.35565	1.06833	240.07079	22.15604	0.2765409	0.26621152	2.3932321	20	8 10.9	17.8
9584 Louchheim	14.1	X	299.89054	67.45350	283.14679	6.21089	0.2341135	0.26159766	2.4212900	20	6 22.3	16.4
9585 1990 QY_2	14.0	X	167.94003	48.94896	0.10050	2.31426	0.1001988	0.25259354	2.4784941	20	4 19.9	17.7
9586 1990 SG_{11}	14.6	X	303.96595	95.05782	205.12919	2.44868	0.1899655	0.25695896	2.4503430	20	4 23.0	17.2
9587 Bonpland	13.5	X	166.96379	79.83770	194.64862	13.79764	0.1638703	0.23820278	2.5773387	20	—	—
9588 Quesnay	13.4	X	133.49571	89.77015	202.29425	13.19279	0.2114356	0.23643594	2.5901628	20	—	—
9589 Deridder	14.3	X	334.50266	345.14879	133.35367	4.15507	0.0571211	0.23580441	2.5947854	20	—	—
9590 1991 DK_1	12.0	X	130.34475	192.66977	28.85129	6.66060	0.0399891	0.08553657	5.1015423	20	9 29.3	18.9
9591 1991 FH_2	13.8	X	234.86511	244.75743	279.27438	0.74763	0.0664294	0.19061828	2.9901502	20	11 27.8	17.8
9592 Clairaut	13.2	X	192.79119	172.42805	230.81340	1.12785	0.0788867	0.20672883	2.8327094	20	5 11.2	17.2
9593 1991 PZ_{17}	14.2	X	37.12390	307.50613	109.65099	6.01516	0.1552305	0.28340881	2.2954112	20	—	—
9594 Garstang	13.5	X	334.38790	344.96562	228.13281	3.91151	0.0940616	0.29432711	2.2382875	20	2 14.8	15.9
9595 1991 RE_{11}	14.2	X	98.00699	124.06581	294.34431	4.65024	0.1727831	0.28785220	2.2717281	20	2 13.6	16.6
9596 1991 RC_{22}	14.4	X	217.39081	251.72071	43.27557	3.94775	0.1871521	0.29174657	2.2514668	20	1 14.7	17.9
9597 1991 UF	14.3	X	65.68558	101.86353	275.68861	2.49156	0.1333728	0.28108362	2.3080526	20	—	—
9598 1991 UQ	14.2	X	155.40763	284.89197	19.36060	3.24840	0.1442579	0.28386052	2.2929754	20	—	—
9599 Onotomoko	13.9	X	149.12031	276.60996	79.07740	4.63369	0.1393497	0.28658270	2.2784320	20	1 23.1	16.9
9600 1991 UB_3	14.8	X	84.56830	334.96424	60.04990	4.93050	0.1964292	0.28375719	2.2935320	20	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
9601 1991 UE_3	13.5	X	244.68260	209.10205	76.44524	7.32516	0.1905177	0.29060788	2.2573442	20	1 27.4	17.1
9602 Oya	14.3	X	161.69789	336.64346	356.79983	2.22772	0.1608208	0.28587959	2.2821663	20	1 10.1	17.6
9603 1991 VG_2	14.9	X	247.07443	309.56062	146.46821	2.73287	0.1725247	0.26817952	2.3815095	20	9 15.3	17.9
9604 Bellevanzuylen	14.4	X	253.97050	274.19757	130.62804	5.36866	0.1338146	0.26298304	2.4127790	20	7 18.9	17.6
9605 1992 AP_3	14.6	X	230.05497	128.92423	311.82449	2.68578	0.1814545	0.26254829	2.4154418	20	8 2.3	18.0
9606 1992 BZ	14.2	X	161.47925	27.54312	74.24747	3.10528	0.1278745	0.25625153	2.4548506	20	6 23.3	17.8
9607 1992 DS_6	13.2	X	344.83953	295.38698	359.48334	8.31483	0.2733853	0.21837866	2.7310475	20	7 2.9	15.3
9608 1992 PD_2	13.2	X	142.36418	84.52618	206.11082	7.03695	0.1993321	0.18892292	3.0080123	20	—	—
9609 Ponomarevalya	12.4	X	125.90693	77.39148	241.91299	9.39239	0.0934660	0.18885352	3.0087492	20	—	—
9610 Vischer	13.6	X	336.37759	239.44695	117.01783	2.54243	0.2503730	0.17438908	3.1729010	20	9 9.6	16.4
9611 Anouck	13.0	X	41.23370	214.38957	41.18716	5.10896	0.0939118	0.17331507	3.1859956	20	8 13.3	17.2
9612 Belgorod	13.1	X	310.96971	102.66991	308.37244	7.53908	0.2146291	0.17606570	3.1527259	20	9 28.3	16.6
9613 1993 BN_3	14.9	X	130.78325	276.81545	32.03633	7.08920	0.1497738	0.28189124	2.3036421	20	—	—
9614 Cuvier	14.4	X	262.81939	79.62457	122.49482	2.12852	0.0991812	0.28445206	2.2897953	20	—	—
9615 Hemerijckx	14.0	X	157.56465	198.75352	184.37051	4.79614	0.1449178	0.29466658	2.2365681	20	3 6.1	17.1
9616 1993 FR_3	14.3	X	359.76777	73.22299	208.67628	5.73950	0.1196173	0.26147101	2.4220718	20	7 19.5	16.8
9617 Grahamchapman	14.7	X	153.72266	281.11656	165.56253	6.13739	0.1133350	0.29708611	2.2244082	20	5 26.5	17.9
9618 Johncleese	14.7	X	4.27686	313.51707	34.31938	7.96365	0.1394613	0.27031812	2.3689321	20	11 11.5	17.1
9619 Terrygilliam	14.6	X	359.32082	207.59361	135.30283	6.14116	0.2515705	0.26844230	2.3799550	20	11 16.8	16.8
9620 Ericidle	14.6	X	109.62798	2.41690	74.48675	4.24511	0.1555601	0.29204365	2.2499397	20	3 27.4	17.3
9621 Michaelpalin	14.5	X	75.08014	217.79598	230.36990	3.68480	0.1683125	0.28948206	2.2631931	20	2 17.2	16.6
9622 Terryjones	14.9	X	84.83227	236.25138	215.85721	5.80512	0.1937475	0.29116560	2.2544607	20	3 15.1	17.2
9623 Karlsson	14.2	X	272.40297	10.16765	310.95890	3.42608	0.1627989	0.25687573	2.4508722	20	4 11.8	17.5
9624 1993 FH_{38}	14.6	X	314.32712	183.01029	147.50618	3.09963	0.1895812	0.26209272	2.4182401	20	6 26.9	16.8
9625 1993 HF	13.6	X	260.28442	323.62635	240.18656	9.92732	0.1358197	0.24473971	2.5312386	20	—	—
9626 Stanley	14.0	X	207.68337	50.13421	50.84813	3.23892	0.1556245	0.26257057	2.4153052	20	8 9.3	17.5
9627 1993 LU_1	13.6	X	4.47808	108.06778	230.17677	11.52141	0.2002562	0.22534550	2.6744642	20	10 25.5	16.4
9628 Sendaiotsuna	12.3	X	75.07100	102.89559	269.79304	12.41617	0.2016328	0.23362754	2.6108787	20	—	—
9629 Servet	13.5	X	278.77031	99.58162	329.92849	1.80393	0.0524094	0.22140065	2.7061391	20	10 3.6	17.0
9630 Castellion	13.1	X	306.94272	340.86130	329.78340	2.80034	0.1584133	0.21365042	2.7711937	20	5 18.4	16.6
9631 Hubertreeves	13.5	X	194.93950	221.19604	174.72307	2.05316	0.0692147	0.20748414	2.8258305	20	5 5.0	17.6
9632 Sudo	14.3	X	61.66633	263.66640	92.47407	3.44142	0.2866454	0.18870977	3.0102770	20	—	—
9633 Cotur	12.4	X	98.34046	114.17173	171.47191	10.53116	0.1281687	0.18551136	3.0447786	20	12 1.3	17.3
9634 1993 XB	13.8	X	45.56180	129.39205	206.12076	6.98998	0.1279306	0.18187932	3.0851800	20	12 1.9	18.1
9635 1993 XS	14.2	X	261.19453	29.05808	82.53142	2.56664	0.1950994	0.17975759	3.1094093	20	10 7.8	18.6
9636 1993 YO	13.5	X	126.27253	92.96833	95.38791	15.82073	0.0464445	0.17366954	3.1816588	20	8 31.6	18.4
9637 Perryrose	14.6	X	313.51407	240.15042	152.02332	0.86688	0.2305172	0.26660658	2.3908673	20	10 4.8	16.0
9638 Fuchs	14.6	X	55.21621	83.11839	147.56880	0.70221	0.1629629	0.26466006	2.4025759	20	8 18.4	17.5
9639 Scherer	13.8	X	291.01546	152.86759	233.00358	2.31747	0.0558645	0.26513651	2.3996967	20	8 27.9	16.7
9640 Lippens	14.4	X	1.88570	218.07413	23.84834	2.82845	0.1556987	0.26036313	2.4289378	20	5 21.7	16.3
9641 Demazière	14.5	X	296.93684	60.87340	222.01176	4.75793	0.1329322	0.25666741	2.4521982	20	3 27.4	17.6
9642 Takatahiro	14.5	X	307.45744	277.16084	47.15406	3.00812	0.1934493	0.26076960	2.4264131	20	6 2.6	16.8
9643 1994 RX	13.7	X	260.00836	257.01260	125.71667	8.17263	0.2517476	0.26033182	2.4291325	20	6 10.4	17.2
9644 1994 WQ_3	12.8	X	121.83657	171.22875	168.22648	8.40450	0.1481474	0.19825778	2.9128351	20	—	—
9645 Grünewald	13.4	X	288.37304	64.35172	296.02995	3.34154	0.1034086	0.21526185	2.7573464	20	7 7.8	17.0
9646 1995 BV	12.9	X	73.50931	110.04322	72.12232	2.07257	0.0777663	0.16886686	3.2417020	20	6 18.7	17.4
9647 1995 UM_8	15.1	X	142.71090	53.12218	31.56608	4.80898	0.0790306	0.30048624	2.2075963	20	5 5.7	17.9
9648 Gotouhideo	14.1	X	134.61390	256.29903	58.58847	4.73287	0.1724527	0.28793844	2.2712744	20	—	—
9649 Junfukue	14.8	X	195.63524	326.48650	39.75124	3.95919	0.1539592	0.29630696	2.2283059	20	3 24.6	18.0
9650 Okadaira	14.4	X	165.77659	79.35021	212.11146	2.52947	0.1724406	0.28443512	2.2898862	20	—	—
9651 Arii–SooHoo	14.7	X	288.25339	358.60720	304.16829	1.76253	0.1929322	0.25697802	2.4502218	20	4 3.2	17.8
9652 1996 AF_2	13.3	X	106.72390	243.79068	318.97041	5.97010	0.1682416	0.26233545	2.4167481	20	9 9.4	16.9
9653 1996 AL_2	13.1	X	118.79918	135.69716	105.73691	14.21948	0.1327326	0.22941087	2.6427742	20	11 9.6	17.5
9654 Seitennokai	15.2	X	316.82743	324.81677	119.92748	1.12633	0.1728101	0.27502510	2.3418253	20	—	—
9655 Yaburanger	13.8	X	295.38428	328.45706	120.58850	4.97310	0.0696040	0.27059807	2.3672980	20	12 6.1	16.4
9656 1996 DK_1	14.3	X	246.08865	359.00069	133.65081	5.14045	0.1712009	0.27009693	2.3702252	20	11 6.0	17.2
9657 Učka	12.8	X	64.69522	111.34339	142.90680	0.89284	0.1783837	0.17755461	3.1350760	20	9 22.7	17.2
9658 Imabari	15.1	X	199.51069	88.02150	42.20924	3.84966	0.1895991	0.26422723	2.4051989	20	9 6.5	18.9
9659 1996 EJ	12.3	X	203.02113	30.64500	150.01852	13.46147	0.0902977	0.22738450	2.6584519	20	11 19.4	16.4
9660 1996 FW_4	12.9	X	68.99462	149.10384	65.20342	2.04488	0.1271708	0.17336657	3.1853646	20	8 1.3	17.2
9661 Hohmann	11.4	X	277.07114	288.54292	56.75468	12.98727	0.2324336	0.12574048	3.9459597	20	5 14.9	17.1
9662 Frankhubbard	13.6	X	263.92494	183.44986	190.37764	9.31407	0.1750245	0.21423362	2.7661621	20	6 12.1	17.7
9663 Zwin	14.6	X	295.10001	1.80332	124.03545	0.88048	0.0942703	0.22928216	2.6437631	20	—	—
9664 Brueghel	13.3	X	85.09652	90.78433	114.93305	2.32891	0.1196553	0.17249759	3.1960533	20	8 8.7	18.0
9665 Inastronoviny	12.6	X	202.95789	320.90972	222.65874	7.71418	0.1210890	0.18319373	3.0704049	20	11 8.4	17.1
9666 1997 GM_{22}	13.7	X	58.96010	290.09921	30.88697	12.34723	0.1894315	0.22975276	2.6401518	20	12 15.8	17.8
9667 Amastrinc	14.1	X	298.38699	121.34888	196.31313	2.39446	0.1777295	0.25837661	2.4413717	20	5 11.9	16.7
9668 Tianyahaijiao	13.8	X	205.47666	209.26241	164.53224	6.14694	0.0683929	0.21136479	2.7911357	20	4 19.8	18.0
9669 Symmetria	13.2	X	271.00165	127.78297	267.40799	0.44273	0.1806010	0.16946471	3.2340734	20	7 15.5	17.8
9670 Magni	12.5	X	310.23994	336.34592	175.15825	10.30312	0.0496772	0.19063395	2.9899864	20	—	—
9671 Hemera	13.9	X	258.40948	340.92883	212.08683	4.83407	0.4354823	0.22312445	2.6921832	20	12 16.7	17.4
9672 Rosenbergerezek	13.0	X	347.99020	4.80697	34.31402	3.70168	0.0526813	0.17356371	3.1829520	20	11 21.1	17.2
9673 Kunishimakoto	14.1	X	9.42610	108.62939	184.06992	4.05204	0.1895338	0.29835158	2.2181138	20	9 12.4	15.7
9674 Slovenija	13.8	X	291.23520	354.40930	164.32665	8.47692	0.1296244	0.23950709	2.5679731	20	—	—
9675 1998 QK_{36}	12.9	X	358.00280	121.45773	166.47322	13.78901	0.1156755	0.17559215	3.1583917	20	7 17.2	17.0
9676 Eijkman	13.5	X	44.78420	356.97550	321.75353	0.61205	0.1600395	0.18215999	3.0820101	20	11 14.4	17.8
9677 Gowlandhopkins	13.7	X	28.30104	129.76183	189.01937	8.56656	0.2591236	0.18205730	3.0831689	20	11 9.0	17.6
9678 van der Meer	16.0	X	85.02783	132.35172	194.06255	2.41888	0.2089495	0.23375595	2.6099225	20	—	—
9679 Crutzen	15.9	X	278.78089	158.86739	190.63499	1.26789	0.1696319	0.25994855	2.4315196	20	5 29.9	19.1
9680 Molina	14.5	X	78.16528	150.02993	312.42634	4.65560	0.1090062	0.28804359	2.2707217	20	3 5.9	16.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
9681 Sherwoodrowland	13.5	X	184.38642	350.70188	202.55191	9.06908	0.0472742	0.18244490	3.0788006	20	11 7.0	18.0
9682 Gravesande	15.5	X	30.21182	18.95373	260.65649	2.76671	0.0220197	0.31129146	2.1562110	20	9 2.7	17.8
9683 Rambaldo	15.3	X	105.91018	194.08809	210.80251	5.18996	0.1548731	0.28709056	2.2757442	20	2 2.7	17.9
9684 Olieslagers	14.2	X	162.63751	288.03904	203.53692	1.91133	0.1386051	0.26006854	2.4307717	20	8 2.6	17.9
9685 Korteweg	14.4	X	92.05708	303.76625	258.59313	1.27373	0.1324685	0.26121787	2.4236364	20	8 21.3	17.6
9686 Keesom	15.2	X	149.38107	305.69150	27.67605	2.32241	0.1141170	0.28642307	2.2792785	20	—	—
9687 Uhlenbeck	13.8	X	145.67492	72.79005	15.64422	6.05312	0.0075962	0.20877340	2.8141848	20	5 9.5	17.8
9688 Goudsmit	13.8	X	259.09923	329.18362	40.30142	4.33368	0.1316688	0.25977765	2.4325860	20	6 5.9	17.1
9689 Freudenthal	14.6	X	319.96174	109.16161	11.89754	13.45219	0.1528691	0.23386552	2.6091072	20	—	—
9690 Houtgast	12.7	X	183.17491	265.20791	186.06808	9.20368	0.1731544	0.20924588	2.8099468	20	6 28.9	17.5
9691 Zwaan	14.6	X	108.66506	83.22245	211.27163	3.32479	0.1971094	0.23413139	2.6071316	20	12 31.2	18.9
9692 Kuperus	16.4	X	260.00157	190.48210	176.70117	2.54936	0.1903255	0.25987100	2.4320034	20	5 27.8	19.8
9693 Bleeker	14.3	X	280.80212	320.29318	38.58436	3.08782	0.2097556	0.26059317	2.4275082	20	6 8.0	17.4
9694 Lycomedes	10.7	X	292.12334	56.66955	349.97873	4.94927	0.0380596	0.08586048	5.0887038	20	9 6.0	17.4
9695 Johnheise	14.6	X	28.31198	275.26784	173.07005	4.14980	0.0992947	0.28560210	2.2836443	20	—	—
9696 Jaffe	15.5	X	282.83098	187.32814	158.63874	1.29003	0.1892417	0.26022314	2.4298089	20	5 27.4	18.5
9697 Louwman	13.9	X	94.92833	221.57471	193.31947	5.43914	0.0480383	0.19872344	2.9082829	20	1 30.5	18.0
9698 Idzerda	14.0	X	173.71422	186.09125	7.52704	7.36520	0.0521913	0.27084193	2.3658767	20	11 8.1	17.2
9699 Baumhauer	14.0	X	95.56746	104.66602	196.37964	11.68748	0.2209458	0.23082125	2.6319978	20	12 28.1	18.6
9700 Paech	14.4	X	239.52921	13.69741	352.28955	6.23954	0.1656438	0.30395227	2.1907818	20	5 2.4	17.5
9701 Mak	15.2	X	191.45267	355.81988	203.37063	2.60461	0.1310838	0.27647874	2.3336097	20	12 1.7	18.4
9702 Tomvandijk	15.0	X	97.44184	111.18281	199.88769	3.03643	0.1032773	0.27753515	2.3276842	20	—	—
9703 Sussenbach	15.8	X	347.69597	313.04997	106.17742	3.72689	0.0678184	0.27685695	2.3314839	20	—	—
9704 Georgebeekman	14.1	X	310.51635	227.13080	251.97808	6.99942	0.0589963	0.27776996	2.3263722	20	—	—
9705 Drummen	13.2	X	353.83350	15.63328	24.46739	10.69807	0.1287388	0.18536921	3.0463349	20	12 8.3	17.0
9706 Bouma	13.4	X	273.39732	125.48151	51.20839	0.42353	0.1049386	0.18918178	3.0052678	20	—	—
9707 Petruskoning	13.7	X	354.10920	58.46612	32.35681	11.11549	0.1436527	0.23436380	2.6054077	20	—	—
9708 Gouka	14.6	X	293.81258	36.02375	115.99922	5.89112	0.1720464	0.23437815	2.6053014	20	—	—
9709 Chrisnell	12.8	X	3.20055	15.25196	68.45342	11.26606	0.0549170	0.18880854	3.0092271	20	—	—
9710 1964 VN_1	14.2	X	280.65189	341.62502	67.31107	7.04139	0.2226773	0.26160442	2.4212483	20	8 22.3	16.9
9711 Želetava	12.2	X	86.86407	94.23986	263.76883	8.73900	0.1166841	0.19191822	2.9766327	20	—	—
9712 Nauplius	10.9	X	262.09330	273.96110	176.58421	8.46624	0.1272755	0.08235878	5.2319402	20	9 8.4	17.8
9713 Oceax	11.2	X	239.79701	313.03238	155.96447	4.15879	0.0540904	0.08374240	5.1741512	20	9 15.3	18.2
9714 1975 LF_1	12.5	X	30.54114	273.64399	24.68126	19.53302	0.0548788	0.17984646	3.1083849	20	9 23.2	16.8
9715 Paolotanga	13.5	X	237.76971	82.17348	31.95038	9.54922	0.0515086	0.17510687	3.1642242	20	10 3.0	18.0
9716 Severina	13.5	X	336.43571	143.69612	181.22358	2.27541	0.2067960	0.26089790	2.4256176	20	8 8.3	15.3
9717 Lyudvasilia	13.3	X	58.31867	19.32283	34.19977	7.66050	0.1098617	0.27627888	2.3347350	20	—	—
9718 Gerbefremov	13.9	X	323.21729	25.22962	84.49661	5.92744	0.1499379	0.27120652	2.3637560	20	—	—
9719 Yakage	13.3	X	166.41115	122.43893	4.55978	5.07479	0.0408815	0.21394132	2.7686811	20	7 30.7	17.2
9720 Ulfbirgitta	13.2	X	15.26965	170.76022	345.98465	11.99356	0.1105508	0.19631484	2.9320225	20	2 22.5	16.6
9721 Doty	13.9	X	259.56606	97.90341	103.25818	8.32671	0.1036144	0.28730381	2.2746179	20	—	—
9722 Levi–Montalcini	14.8	X	219.85304	94.67394	20.28134	1.24481	0.1760907	0.26376601	2.4080019	20	9 7.0	18.4
9723 Binyang	14.3	X	21.92756	19.26807	309.27747	4.98446	0.1178758	0.31302053	2.1482633	20	11 18.8	16.6
9724 Villanueva	15.1	X	269.04810	223.91752	217.66016	1.86851	0.1513143	0.26494919	2.4008277	20	9 29.0	17.5
9725 Wainscoat	15.3	X	357.22854	51.65538	205.74851	1.87889	0.1649113	0.25561339	2.4589346	20	6 6.5	17.3
9726 Verbiscer	14.3	X	252.30289	49.50819	259.48405	1.07074	0.0329133	0.20279207	2.8692523	20	3 24.5	18.2
9727 Skrutskie	13.2	X	177.26150	196.36908	161.88343	2.36207	0.0760477	0.20100333	2.8862496	20	2 29.4	17.6
9728 Videen	14.6	X	268.96888	31.94054	272.33760	7.21744	0.1844412	0.25258553	2.4785465	20	3 12.5	18.4
9729 1981 RQ	13.3	X	119.00478	29.70754	335.80325	13.07463	0.1837193	0.23787529	2.5797037	20	1 16.5	17.0
9730 1982 FA	14.1	X	53.06568	93.02171	78.78494	1.61660	0.1454107	0.28861406	2.2677285	20	5 15.2	16.1
9731 1982 JD_1	14.1	X	112.57609	36.35637	215.06277	8.38351	0.1712748	0.26814413	2.3817190	20	11 18.7	17.8
9732 Juchnovski	13.8	X	224.08090	68.72151	299.86109	7.62183	0.1244527	0.29365734	2.2416896	20	4 21.4	17.1
9733 Valtikhonov	14.8	X	268.92929	130.81244	220.86017	6.41480	0.1984111	0.30455518	2.1878895	20	5 15.2	17.5
9734 1986 CB_2	14.1	X	260.56403	286.01363	299.13383	4.66926	0.1177643	0.28494288	2.2871651	20	—	—
9735 1986 JD	13.7	X	134.31554	159.00411	102.77749	8.95298	0.1695302	0.27289982	2.3539680	20	12 20.8	17.4
9736 1986 QP_2	13.6	X	21.04780	188.86996	128.39910	2.32739	0.1828697	0.17569075	3.1572099	20	10 13.5	17.4
9737 Dudarova	13.7	X	311.55337	57.36739	230.70201	11.33743	0.1769217	0.25575307	2.4580392	20	4 18.0	16.6
9738 1987 DF_6	13.0	X	178.12066	249.83714	329.88645	12.51843	0.1222699	0.22637996	2.6663106	20	12 2.2	17.3
9739 Powell	13.7	X	47.64998	54.21110	289.63804	18.67699	0.0787483	0.36489280	1.9395122	20	—	—
9740 1987 ST_{11}	14.0	X	336.80774	356.35787	45.22812	5.78337	0.1300422	0.27170601	2.3608581	20	12 11.2	16.2
9741 Solokhin	13.7	X	62.27696	51.54929	47.66231	6.57910	0.1637830	0.28151153	2.3057130	20	2 15.9	15.8
9742 Worpswede	12.7	X	194.28085	48.48104	94.32757	4.59470	0.1112544	0.17301999	3.1896169	20	9 13.7	17.7
9743 Tohru	13.8	X	146.57111	127.15781	100.41984	5.21395	0.1041853	0.26015209	2.4302512	20	11 20.2	17.3
9744 Nielsen	13.6	X	180.51930	134.75323	108.62301	13.57917	0.3008329	0.23370651	2.6102905	20	12 23.9	18.2
9745 Shinkenwada	13.9	X	110.65755	203.67552	199.96078	1.75763	0.1089366	0.19730096	2.9222447	20	2 14.8	18.0
9746 Kazukoichikawa	14.0	X	262.97954	246.45249	101.98604	3.23406	0.2048153	0.30040224	2.2080078	20	5 3.6	16.9
9747 1989 AT	13.0	X	350.40565	356.39977	99.86557	13.26666	0.1232060	0.18719404	3.0265048	20	—	—
9748 van Ostaijen	14.2	X	166.06229	49.96232	198.18716	6.55070	0.0644956	0.27547364	2.3392826	20	—	—
9749 Van den Eijnde	14.7	X	304.91493	30.57892	294.11628	2.82425	0.1273048	0.25774415	2.4453639	20	6 10.1	17.2
9750 1989 NE_1	14.1	X	179.30811	258.54735	38.10022	12.75556	0.2503481	0.23931643	2.5693368	20	—	—
9751 Kadota	14.2	X	347.57427	125.48181	160.43228	2.84345	0.1783116	0.26040375	2.4286852	20	7 1.1	16.0
9752 1990 QZ_1	13.9	X	246.67685	120.79615	345.69120	7.18076	0.0828014	0.26508797	2.3999897	20	10 10.0	16.8
9753 1990 QL_3	14.0	X	331.13710	326.29271	348.93433	5.66788	0.1443694	0.26017908	2.4300832	20	7 15.7	16.2
9754 1990 QJ_4	14.6	X	18.82409	123.96590	156.03242	2.45517	0.1919764	0.26270509	2.4144806	20	9 5.0	16.8
9755 1990 RR_2	13.2	X	248.33266	174.00100	193.34805	6.67575	0.1389738	0.25582275	2.4575929	20	5 21.5	16.7
9756 Ezaki	14.0	X	119.98579	36.93040	179.95636	4.45086	0.1109040	0.21806295	2.7336828	20	10 3.8	18.1
9757 Felixdejager	13.4	X	214.29542	38.37942	284.74314	0.93243	0.0598241	0.19999879	2.8959061	20	2 25.8	17.7
9758 Dainty	13.9	X	169.95637	230.23068	283.37850	7.53944	0.2218867	0.21686159	2.7437695	20	8 30.5	18.7
9759 1991 NE_7	12.8	X	338.11421	114.62239	267.92125	5.21288	0.0862669	0.17573326	3.1567007	20	10 17.1	16.9
9760 1991 PJ_{13}	15.2	X	220.30520	345.19644	333.23664	2.65311	0.1536279	0.29406584	2.2396131	20	2 14.8	18.5

	Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
		m		°	°	°	°		°				
9761	Krautter	14.5	X	144.36075	56.75219	336.22014	3.59732	0.1599087	0.29046462	2.2580864	20	3 7.1	17.6
9762	Hermannhesse	15.1	X	104.31736	112.66752	344.39336	3.72667	0.0651059	0.29251539	2.2475200	20	3 30.7	17.8
9763	1991 RU_{17}	13.7	X	171.18825	180.01192	191.05559	3.31240	0.0297388	0.29292535	2.2454225	20	2 24.8	16.4
9764	Morgenstern	14.2	X	0.16398	160.05264	300.57712	7.21695	0.1900806	0.27914614	2.3187200	20	—	—
9765	1991 XZ	14.0	X	75.88208	152.31409	330.06142	4.32770	0.1773056	0.28649570	2.2788932	20	4 12.1	16.3
9766	Bradbury	14.3	X	170.03426	60.13887	53.10083	1.27537	0.0820385	0.25665872	2.4522535	20	7 17.8	17.8
9767	Midsomer Norton	16.1	X	187.23665	231.16829	331.34795	21.47902	0.5690887	0.15831052	3.3842534	20	10 16.0	23.3
9768	Stephenmaran	13.4	X	165.62919	136.41448	38.80503	24.22777	0.2136971	0.26091646	2.4255025	20	10 8.9	17.7
9769	Nautilus	14.5	X	40.41912	47.32961	129.47369	6.49577	0.1124167	0.29440127	2.2379116	20	4 26.8	16.6
9770	Discovery	14.8	X	298.20167	67.71420	136.24917	3.95287	0.1453260	0.28563379	2.2834753	20	—	—
9771	1993 FU_{17}	14.4	X	141.15777	12.77373	46.80553	7.34402	0.1352723	0.29272304	2.2464570	20	4 7.9	17.5
9772	1993 MB	12.9	X	65.41801	64.15946	203.39429	13.25252	0.1893847	0.22536892	2.6742789	20	10 18.4	16.5
9773	1993 MG_1	13.6	X	41.87921	15.50580	277.51419	14.70547	0.3888129	0.22476566	2.6790619	20	11 17.2	17.8
9774	Annjudge	14.1	X	127.55531	80.41937	334.81877	0.53451	0.1245131	0.24443904	2.5333139	20	3 17.6	17.6
9775	Joeferguson	14.6	X	102.38915	80.06567	251.01833	2.56832	0.1510355	0.23335177	2.6129353	20	—	—
9776	1993 VL_3	13.1	X	65.47237	25.36788	91.93091	3.37952	0.0215399	0.19882571	2.9072855	20	3 10.2	17.1
9777	Enterprise	14.3	X	357.83229	178.86985	115.58653	3.27105	0.2326182	0.26546282	2.3977298	20	8 18.5	15.8
9778	Isabelallende	14.7	X	263.25821	190.99747	189.49982	1.81080	0.1875375	0.26048620	2.4281727	20	6 18.9	18.0
9779	1994 RA_{11}	14.6	X	73.29334	304.57514	334.48092	2.49287	0.2244078	0.27157687	2.3616065	20	11 20.0	18.2
9780	Bandersnatch	13.3	X	183.98596	201.81813	297.56529	6.26257	0.1019459	0.30202969	2.2000689	20	9 7.9	16.5
9781	Jubjubbird	14.4	X	300.53011	268.28757	37.20258	8.55598	0.1731028	0.25526876	2.4611473	20	4 28.1	17.3
9782	Edo	13.2	X	342.81720	127.64023	60.39422	8.95024	0.1584663	0.24126623	2.5554753	20	1 28.6	16.2
9783	Tensho–kan	14.0	X	344.83300	130.05361	278.65130	1.96435	0.1035769	0.22599153	2.6693649	20	12 17.2	16.8
9784	Yotsubashi	13.4	X	261.43897	2.12339	35.42150	5.44568	0.0561711	0.21643401	2.7473820	20	7 29.9	17.2
9785	Senjikan	13.5	X	119.80281	186.84867	12.19232	3.11135	0.0536782	0.21604478	2.7506808	20	9 6.9	17.5
9786	Gakutensoku	13.6	X	217.15849	46.68814	305.39714	1.05454	0.0810031	0.20607495	2.8386984	20	4 2.8	17.7
9787	1995 BA_3	13.5	X	168.52013	35.45086	74.24416	1.48254	0.1214018	0.21049596	2.7988108	20	7 9.3	18.0
9788	Yagami	13.5	X	212.35345	123.37362	80.12133	1.89957	0.1378707	0.18147809	3.0897257	20	12 9.1	18.1
9789	1995 GO_7	12.4	X	208.43511	128.93344	44.76706	1.89741	0.1360195	0.17736159	3.1373502	20	10 30.9	17.1
9790	1995 OK_8	10.9	X	324.43734	151.50787	231.17150	5.91717	0.0560114	0.08207550	5.2439719	20	9 13.3	17.6
9791	Kamiyakurai	13.9	X	146.71981	202.06791	109.67728	8.79675	0.0704233	0.28211377	2.3024305	20	—	—
9792	Nonodakesan	14.0	X	272.82311	359.71320	113.28499	11.20769	0.1543353	0.27198107	2.3592661	20	11 25.9	16.5
9793	Torvalds	15.5	X	133.32688	344.40338	72.38999	3.65250	0.1607544	0.29122505	2.2541539	20	3 28.9	18.6
9794	1996 FO_5	14.0	X	252.73328	119.12256	20.35410	8.90082	0.1430324	0.27095651	2.3652098	20	11 26.0	16.8
9795	Deprez	14.2	X	196.94017	155.60476	180.86537	1.84403	0.0704991	0.19897735	2.9058082	20	2 23.5	18.5
9796	Robotti	13.4	X	239.48464	241.11379	25.98502	15.05247	0.0385764	0.23953386	2.5677818	20	1 15.6	17.3
9797	Raes	13.3	X	53.11030	104.67768	175.29077	1.21352	0.1638441	0.17429486	3.1740443	20	10 7.8	17.7
9798	1996 JK	12.1	X	103.06731	262.28587	96.24063	10.81435	0.0949620	0.18936658	3.0033123	20	—	—
9799	1996 RJ	9.6	X	336.79534	114.50225	259.55011	30.52101	0.0482431	0.08339670	5.1884403	20	9 7.3	16.8
9800	Shigetoshi	14.4	X	39.59357	170.72804	119.26945	3.07557	0.2003893	0.26966930	2.3727303	20	10 27.2	17.4
9801	1997 FX_3	13.8	X	36.17603	104.34964	223.39180	2.26319	0.3359659	0.22879262	2.6475329	20	12 19.5	17.6
9802	1997 GQ_6	14.5	X	177.91198	304.46891	24.46922	4.41291	0.1765720	0.24503795	2.5291843	20	1 27.4	18.6
9803	1997 GL_8	14.1	X	313.09831	275.93336	24.16063	4.74175	0.1599758	0.25787885	2.4445123	20	5 11.9	16.6
9804	Shrikulkarni	13.3	X	119.65850	83.60424	121.60310	13.53304	0.1164871	0.22589582	2.6701188	20	9 25.0	17.5
9805	1997 NZ	12.3	X	155.49448	7.57637	284.38534	12.05619	0.1616452	0.23411959	2.6072192	20	—	—
9806	1997 NR_6	12.9	X	99.66681	231.56107	125.53247	11.40710	0.1097850	0.19098211	2.9863515	20	—	—
9807	1997 SJ_4	11.3	X	285.73047	196.91753	232.55971	4.96777	0.1544453	0.08287947	5.2100041	20	9 6.7	18.1
9808	1998 QS_{70}	13.8	X	286.53973	267.10060	234.68569	12.33160	0.1011543	0.23714985	2.5849619	20	—	—
9809	Jimdarwin	15.1	X	40.57513	324.55272	36.90127	3.15006	0.1731000	0.23315236	2.6144249	20	—	—
9810	Elanfiller	14.0	X	138.34613	189.19325	181.75153	3.90332	0.1652200	0.29090023	2.2558316	20	1 31.5	17.1
9811	Cavadore	15.6	X	153.04861	305.33539	27.24762	1.52976	0.1568381	0.28785501	2.2717133	20	—	—
9812	Danco	14.2	X	67.70516	267.55788	189.63887	6.23344	0.1334551	0.28940506	2.2635945	20	2 11.8	16.3
9813	Rozgaj	14.3	X	86.73101	227.51539	201.77556	1.62270	0.1271296	0.28800790	2.2709093	20	2 4.4	16.5
9814	Ivobenko	15.4	X	122.48293	145.14065	223.88933	4.19516	0.2194916	0.28662931	2.2781850	20	1 18.2	18.3
9815	Mariakirch	13.8	X	202.79637	78.35163	338.47588	4.85087	0.0719132	0.20923395	2.8100536	20	6 8.4	18.1
9816	von Matt	13.8	X	126.82639	71.31306	8.31827	21.94086	0.0631544	0.22366267	2.6878625	20	4 7.7	17.7
9817	Thersander	11.4	X	234.00001	80.37385	24.28111	9.16591	0.0411544	0.08164444	5.2624136	20	9 8.2	18.5
9818	Eurymachos	11.0	X	223.22997	97.83488	18.54915	7.49237	0.0033702	0.08307488	5.2018310	20	9 12.4	17.9
9819	Sangerhausen	14.9	X	328.19174	245.09128	56.65924	2.45337	0.1809856	0.30438508	2.1887046	20	6 12.3	16.1
9820	Hempel	15.0	X	234.11547	266.63905	275.69656	0.26952	0.1440464	0.27350691	2.3504834	20	12 30.1	17.6
9821	Gitakresáková	14.7	X	33.30561	129.33255	172.55115	5.34865	0.1348169	0.26810022	2.3819790	20	10 23.9	17.5
9822	Hajduková	14.5	X	166.36556	137.24025	79.18576	3.04175	0.1595952	0.27119235	2.3638383	20	11 24.4	18.2
9823	Annantalová	14.5	X	37.76948	259.21903	38.63462	6.81818	0.1323465	0.26807013	2.3821573	20	10 23.5	17.3
9824	Marylea	13.6	X	226.97714	262.40632	75.04385	2.99347	0.0661872	0.20238759	2.8730739	20	3 29.5	17.9
9825	Oetken	12.8	X	60.40202	69.12291	326.25875	9.09600	0.0944742	0.18946228	3.0023009	20	—	—
9826	Ehrenfreund	13.1	X	125.58425	113.04905	215.56830	8.95083	0.0881042	0.19020257	2.9945056	20	—	—
9827	1958 TL_1	12.5	X	0.73436	164.13080	203.32147	17.58743	0.1754102	0.17451556	3.1713678	20	11 12.5	16.2
9828	Antimachos	11.9	X	247.50507	19.98865	97.09648	3.21318	0.0844853	0.08346534	5.1855953	20	9 29.9	18.8
9829	Murillo	12.1	X	148.84665	4.64094	181.73131	2.64323	0.1263659	0.12550039	3.9509907	20	9 14.9	18.2
9830	1978 VE_{11}	14.7	X	141.29667	265.51105	245.51360	6.14321	0.0570229	0.29902154	2.2147994	20	8 4.3	17.6
9831	Simongreen	15.1	X	288.93445	188.01950	168.51790	2.40648	0.2106241	0.26238228	2.4164606	20	6 17.0	17.9
9832	Xiaobinwang	14.9	X	302.59305	97.82713	263.57331	6.99885	0.1218847	0.26008473	2.4306708	20	7 30.9	17.5
9833	Rilke	14.5	X	108.87533	317.70900	129.78989	3.76983	0.1138791	0.28712645	2.2755545	20	4 3.7	17.2
9834	Kirsanov	12.5	X	43.62133	161.85980	246.14566	8.78825	0.0852925	0.18747620	3.0234673	20	—	—
9835	1984 UD	13.4	X	286.59326	25.31508	27.02208	9.17422	0.2454415	0.21653377	2.7465380	20	8 27.9	16.7
9836	Aarseth	14.2	X	48.41021	154.60070	238.89910	1.57399	0.2219654	0.23221997	2.6214184	20	—	—
9837	Jerryhorow	12.9	X	192.16247	62.15264	116.11586	5.78144	0.0240042	0.22109400	2.7086407	20	11 8.0	16.7
9838	Falz–Fein	13.1	X	82.33583	317.69897	79.83741	5.94487	0.0606724	0.19046626	2.9917411	20	—	—
9839	Crabbegat	14.0	X	348.58404	147.13618	121.90486	3.00953	0.1062594	0.25458011	2.4655836	20	6 8.3	16.5
9840	1988 RQ_2	12.5	X	94.33957	253.41680	311.09599	10.91767	0.0693027	0.21236246	2.7823871	20	8 13.6	16.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
9841 Mašek	15.1	X	261.21288	264.54880	138.55203	2.19751	0.1598225	0.30412644	2.1899453	20	7 25.5	17.5
9842 Funakoshi	14.2	X	85.06166	101.91230	52.18642	2.90489	0.0899432	0.29276112	2.2462622	20	5 30.4	16.8
9843 Braidwood	14.3	X	109.40329	331.84206	126.99056	5.06941	0.0848145	0.29056745	2.2575536	20	4 16.5	17.0
9844 Otani	14.0	X	323.49549	354.21948	60.67793	12.92845	0.2181113	0.22233829	2.6985256	20	11 20.6	16.1
9845 Okamuraosamu	12.9	X	191.25207	43.04457	121.35426	8.20312	0.1621226	0.21078838	2.7962217	20	10 9.6	17.5
9846 1990 OS_1	13.6	X	151.14049	225.86111	3.43807	9.68553	0.1873125	0.27182469	2.3601709	20	11 22.5	17.6
9847 1990 QJ_5	14.5	X	10.59353	0.22971	19.52097	2.73284	0.2098521	0.26829724	2.3808128	20	—	—
9848 Yugra	14.2	X	18.99726	111.91056	248.52640	1.24815	0.2268580	0.26832741	2.3806343	20	—	—
9849 1990 RF_2	13.8	X	95.92002	42.47542	232.12969	1.73835	0.1591255	0.26840798	2.3801579	20	11 30.9	17.4
9850 1990 TM_5	14.2	X	68.99092	79.28831	245.79333	6.12593	0.1337147	0.27024906	2.3693357	20	—	—
9851 Sakamoto	13.6	X	18.00133	0.03149	58.13107	6.49606	0.3205873	0.23596403	2.5936150	20	—	—
9852 Gora	14.3	X	86.63761	77.81064	8.12466	5.24895	0.1363385	0.24157498	2.5532974	20	3 8.9	17.4
9853 1991 AN_2	12.9	X	163.72724	173.32399	147.15120	17.68807	0.1758439	0.24053789	2.5606313	20	1 3.8	17.1
9854 Karlheinz	13.8	X	186.82455	118.55884	135.86880	4.51995	0.1592556	0.22927731	2.6438004	20	—	—
9855 1991 CU	12.9	X	150.20171	215.87300	140.45653	9.96422	0.0932887	0.23745952	2.5827141	20	1 25.6	16.5
9856 1991 EE	17.4	X	204.90700	116.20170	168.11616	9.82700	0.6260225	0.29336266	2.2431905	20	—	—
9857 1991 EN	10.3	X	76.28493	4.69534	289.38438	19.61442	0.0268519	0.08420813	5.1550559	20	10 9.5	17.4
9858 1991 OL_1	13.2	X	326.55465	245.60590	113.26996	2.78392	0.1804517	0.17029094	3.2236041	20	8 25.4	16.8
9859 Van Lierde	12.7	X	124.06170	272.74334	244.78778	1.22387	0.0057001	0.20164426	2.8801304	20	7 12.7	16.6
9860 Archaeopteryx	13.3	X	55.43584	152.45828	152.43826	9.97014	0.0721725	0.17529001	3.1620200	20	10 31.5	17.8
9861 Jahreiss	14.9	X	201.29254	147.74649	254.90876	2.93058	0.1456437	0.29690425	2.2253164	20	5 15.8	18.1
9862 1991 RA_6	14.0	X	34.81741	236.05191	54.38506	5.52512	0.2004306	0.27319392	2.3522782	20	10 21.9	16.7
9863 Reichardt	14.4	X	348.97097	301.02208	291.42979	3.35411	0.1171953	0.29432399	2.2383033	20	4 6.7	16.4
9864 1991 RT_{17}	13.0	X	138.87336	58.04839	258.08898	1.53275	0.1332860	0.18207095	3.0830149	20	—	—
9865 Akiraohta	14.3	X	309.06107	82.96367	233.91041	3.79555	0.2155708	0.30111991	2.2044982	20	5 20.7	16.4
9866 Kanaimitsuo	14.2	X	20.84154	207.22666	126.12331	3.03853	0.1748597	0.30794615	2.1717985	20	12 4.3	16.6
9867 1991 VM	14.4	X	148.12119	303.76114	93.79454	5.56110	0.1913636	0.28938452	2.2637016	20	3 23.5	17.8
9868 1991 VP_1	14.5	X	125.26681	317.25478	122.98513	4.92395	0.1293258	0.29108792	2.2548618	20	4 17.2	17.5
9869 Yadoumaru	13.9	X	295.27588	310.87596	187.72929	2.91890	0.1313354	0.27149551	2.3620782	20	—	—
9870 Maehata	13.9	X	290.23505	164.42589	27.52514	3.70372	0.1663981	0.27489922	2.3425402	20	—	—
9871 Jeon	13.3	X	233.65156	231.78959	347.86521	5.56826	0.1497223	0.27000517	2.3707622	20	—	—
9872 Solf	14.2	X	188.72207	229.36642	6.90274	6.59043	0.0871432	0.27024899	2.3693361	20	—	—
9873 1992 GH	13.7	X	236.21745	7.57997	351.86910	19.22799	0.0763728	0.38801981	1.8616589	20	4 16.5	16.1
9874 1993 FG_{23}	14.6	X	295.14467	156.80330	262.53906	1.97014	0.0721619	0.30712924	2.1756479	20	10 31.8	16.5
9875 1993 FH_{25}	13.6	X	313.74570	77.50741	201.42173	4.94876	0.0530596	0.25758171	2.4463919	20	4 30.2	16.6
9876 1993 FY_{37}	14.6	X	108.43993	211.94269	170.39071	4.27387	0.1858170	0.28420955	2.2910977	20	1 12.9	17.1
9877 1993 ST_3	13.1	X	1.37363	317.61697	43.80292	7.73814	0.2301317	0.22164622	2.7041400	20	11 25.2	15.9
9878 Sostero	14.3	X	304.39457	342.80709	156.93724	16.39610	0.1270900	0.18163977	3.0878919	20	—	—
9879 Mammuthus	15.1	X	358.81861	103.99579	236.66417	3.69850	0.2485994	0.26804357	2.3823146	20	11 9.0	16.9
9880 Stegosaurus	14.7	X	75.69358	232.80933	201.78393	3.46485	0.1115943	0.28487835	2.2875105	20	1 22.4	16.9
9881 1994 SE	15.7	X	62.36097	274.99456	61.06784	8.08176	0.4108850	0.27516790	2.3410151	20	—	—
9882 Stallman	15.8	X	21.60731	156.94879	148.76018	0.99186	0.1826506	0.26627312	2.3928630	20	10 18.0	18.1
9883 1994 TU_1	14.9	X	81.12744	358.10533	331.33240	6.87560	0.1439112	0.27298150	2.3534984	20	—	—
9884 Příbram	15.3	X	297.58428	75.09923	25.44303	1.86035	0.1404376	0.26904298	2.3764113	20	12 22.8	17.4
9885 Linux	13.4	X	330.15298	254.47548	198.16612	6.10851	0.0678557	0.27216638	2.3581951	20	—	—
9886 Aoyagi	14.6	X	279.41673	16.79179	50.34248	3.27337	0.1746433	0.26293197	2.4130915	20	9 23.3	17.0
9887 Ashikaga	13.9	X	56.93331	269.42561	138.11927	4.14701	0.1295267	0.23317255	2.6142740	20	—	—
9888 1995 CD	13.1	X	172.97814	243.61985	33.56517	3.90439	0.0548471	0.22668404	2.6639256	20	—	—
9889 1995 FG_1	12.6	X	358.12729	302.46349	303.77733	0.94531	0.0186207	0.20161312	2.8804269	20	5 23.5	16.3
9890 1995 SY_2	14.8	X	250.23677	281.21932	90.04487	0.70524	0.1410583	0.30831217	2.1700793	20	5 27.5	17.6
9891 Stephensmith	12.8	X	150.37443	175.97273	72.43297	14.14903	0.1369725	0.23624961	2.5915245	20	12 12.6	16.9
9892 1995 YN_3	14.0	X	339.55319	290.13507	278.07238	6.21325	0.1412574	0.28952067	2.2629919	20	2 9.1	16.4
9893 1996 AA_1	14.2	X	339.35532	321.84406	288.70841	1.13757	0.1283492	0.29449239	2.2374500	20	4 17.0	16.1
9894 1996 BS_1	13.8	X	48.95214	284.12037	34.18329	4.15611	0.0866946	0.26892298	2.3771182	20	11 26.9	17.0
9895 1996 BR_3	13.8	X	195.28814	337.55590	16.56626	4.52755	0.1683717	0.29010655	2.2599441	20	3 9.2	17.3
9896 1996 BL_{17}	13.4	X	40.90847	95.68935	82.35240	6.43711	0.0902127	0.29269167	2.2466175	20	4 26.7	15.6
9897 Malerba	14.3	X	267.14075	227.48252	126.80353	6.36948	0.2023697	0.29756279	2.2220320	20	5 18.0	17.3
9898 Yoshiro	13.6	X	341.81883	282.12521	127.92920	5.92186	0.0674485	0.27041726	2.3683531	20	12 24.9	16.3
9899 1996 EH	13.4	X	193.96115	342.62881	246.26769	7.85112	0.1515331	0.27119033	2.3638500	20	—	—
9900 Llull	13.8	X	126.31197	119.66496	136.91725	3.49281	0.2112223	0.31472284	2.1405097	20	12 14.2	17.3
9901 1997 NV	14.2	X	73.59141	99.11887	263.12727	5.35677	0.1280705	0.27396242	2.3478773	20	—	—
9902 Kirkpatrick	14.4	X	194.58785	176.36685	274.36597	5.31673	0.0820001	0.29967832	2.2115622	20	7 17.3	17.3
9903 Leonhardt	14.4	X	61.56110	139.36950	195.95122	1.69195	0.2360302	0.18184741	3.0855409	20	12 31.8	19.1
9904 Mauratombelli	14.1	X	291.17365	266.56288	153.81951	8.47531	0.1872725	0.21809334	2.7334289	20	9 23.4	17.1
9905 Tiziano	14.4	X	237.81673	130.82531	9.06908	12.71870	0.1311355	0.26460892	2.4028854	20	11 3.2	17.6
9906 Tintoretto	13.1	X	39.92980	326.07655	13.56042	13.37025	0.1787760	0.23235612	2.6203942	20	12 17.3	17.0
9907 Oileus	11.5	X	284.19220	262.85243	153.68321	8.15375	0.0684000	0.08119552	5.2817923	20	9 3.7	18.3
9908 Aue	13.4	X	94.41677	24.26256	43.03788	2.48396	0.0567541	0.19972595	2.8985428	20	2 17.9	17.3
9909 Eschenbach	13.8	X	33.85830	240.82605	147.06816	4.32305	0.1635270	0.27392957	2.3480649	20	—	—
9910 Vogelweide	13.7	X	178.01442	303.09676	95.18444	3.36735	0.0335848	0.20267195	2.8703859	20	4 19.7	17.9
9911 Quantz	14.4	X	259.35144	199.70016	29.56723	5.19562	0.1440000	0.28235682	2.3011090	20	—	—
9912 Donizetti	13.0	X	301.13691	227.67019	344.15885	7.26013	0.1492092	0.24011408	2.5636435	20	1 2.5	16.6
9913 Humperdinck	15.0	X	67.65681	18.55630	62.55620	4.97599	0.1460658	0.28495702	2.2870894	20	1 24.4	17.0
9914 Obukhova	14.0	X	349.90141	325.54787	85.37710	3.47348	0.2071435	0.22558585	2.6725642	20	—	—
9915 Potanin	13.4	X	140.68021	339.85064	50.09873	3.19916	0.1906496	0.19536863	2.9414818	20	3 12.2	18.0
9916 Kibirev	13.2	X	247.76827	78.67233	288.19170	1.01804	0.0859457	0.20483877	2.8501077	20	5 25.9	17.3
9917 Keynes	13.8	X	36.59359	170.86954	163.61276	6.37142	0.1323793	0.26989758	2.3713922	20	12 10.9	16.9
9918 1979 MK_3	13.2	X	357.15760	331.83488	133.69157	6.14947	0.1343900	0.18004933	3.1060495	20	—	—
9919 Undset	15.0	X	7.11552	163.98897	212.48898	1.60614	0.2091011	0.26857616	2.3791642	20	—	—
9920 Bagnulo	13.4	X	48.23241	27.40664	264.62533	3.25975	0.0422719	0.21225447	2.7833307	20	10 3.3	17.2

	Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
		m		°	°	°	°		°				
9921	Rubincam	14.2	X	359.02356	90.49923	331.26019	2.40015	0.0598199	0.26905424	2.3763450	20	—	—
9922	Catcheller	15.2	X	308.42963	84.58050	316.47477	1.61835	0.2099350	0.26465980	2.4025774	20	10 6.3	17.0
9923	Ronaldthiel	14.1	X	188.62167	80.34327	12.11188	4.39593	0.0694324	0.20866905	2.8151229	20	7 9.9	18.4
9924	Corrigan	14.1	X	295.54292	51.83373	333.28466	2.83969	0.1001554	0.21125842	2.7920725	20	8 22.1	17.4
9925	Juliehoskin	14.0	X	261.87027	64.02053	329.08878	3.22552	0.0947637	0.20931054	2.8093681	20	7 16.7	17.9
9926	Desch	15.7	X	311.51559	243.41858	203.08225	2.13875	0.1689476	0.26814655	2.3817047	20	12 30.3	17.5
9927	Tyutchev	14.3	X	292.83129	89.90228	237.90509	6.03544	0.2436981	0.29874130	2.2161843	20	5 4.6	16.7
9928	1981 WE_9	14.7	X	279.02067	175.85855	179.43527	2.84702	0.1773317	0.29845405	2.2176061	20	6 6.8	17.2
9929	McConnell	14.4	X	93.03957	61.86211	43.72641	6.00950	0.1380078	0.28704416	2.2759894	20	4 10.9	17.1
9930	Billburrows	13.8	X	150.69324	77.75160	125.34965	7.46266	0.1043624	0.25922066	2.4360693	20	10 26.5	17.5
9931	Herbhauptman	13.8	X	184.55972	80.64877	157.18870	2.47146	0.1765583	0.26873517	2.3782255	20	—	—
9932	Kopylov	13.4	X	224.47423	307.83144	358.15593	14.16950	0.0934087	0.24171912	2.5522824	20	2 15.1	17.3
9933	Alekseev	14.2	X	337.70278	83.89820	307.90776	3.85681	0.1410575	0.31212687	2.1523618	20	12 14.8	16.0
9934	Caccioppoli	13.7	X	181.02510	294.60231	11.21282	16.61694	0.2305103	0.23780347	2.5802231	20	1 7.4	18.4
9935	1986 CP_1	13.5	X	312.31870	130.55593	35.44566	4.10215	0.1255921	0.22699176	2.6615175	20	—	—
9936	Al–Biruni	12.1	X	101.54795	14.18387	310.35685	15.40910	0.1852353	0.18225571	3.0809309	20	—	—
9937	Triceratops	14.9	X	40.53679	47.20154	327.23050	1.26376	0.2307672	0.27082905	2.3659518	20	—	—
9938	Kretlow	14.4	X	61.71318	222.88741	86.08436	3.80163	0.1896719	0.31490307	2.1396929	20	12 22.1	17.4
9939	1988 VK	14.3	X	271.62003	268.22810	110.20197	5.78321	0.1552558	0.30297079	2.1955106	20	7 4.4	16.6
9940	1988 VM_3	14.6	X	1.96206	341.37121	357.56341	2.21109	0.1695978	0.30802056	2.1714487	20	11 10.3	16.4
9941	Iguanodon	14.7	X	4.68873	217.68718	264.30170	5.43990	0.1225227	0.28267634	2.2993747	20	—	—
9942	1989 TM_1	13.6	X	93.80589	38.32879	21.73491	9.93870	0.1672921	0.23571488	2.5954423	20	2 22.7	17.0
9943	Bizan	13.7	X	81.54642	320.65341	87.55251	4.90979	0.1636120	0.23369588	2.6103697	20	1 15.3	16.5
9944	1990 DA_3	13.3	X	197.40332	313.03376	116.94337	3.16481	0.0471163	0.20630288	2.8366071	20	6 21.1	17.2
9945	Karinaxavier	13.6	X	26.68628	168.51222	104.77147	5.43676	0.1486785	0.29990581	2.2104437	20	9 11.2	15.7
9946	1990 ON_2	14.2	X	309.50275	282.16038	2.17600	3.17865	0.0766026	0.29028067	2.2590403	20	4 24.6	16.6
9947	Takaishuji	14.2	X	91.64861	57.26895	332.10959	21.83255	0.2531304	0.27662171	2.3328056	20	1 17.2	16.9
9948	1990 QB_2	14.3	X	41.85795	151.53175	171.51577	2.09611	0.2166737	0.26778022	2.3838763	20	12 12.9	17.6
9949	Brontosaurus	13.8	X	236.05823	173.90536	29.82761	7.70027	0.0610008	0.27278541	2.3546261	20	—	—
9950	ESA	16.1	X	276.95083	103.50484	253.51274	14.59748	0.5330346	0.25906646	2.4370359	20	4 19.4	20.8
9951	Tyrannosaurus	14.2	X	56.48368	152.99555	133.39180	7.40293	0.1228366	0.26084781	2.4259280	20	11 1.4	17.5
9952	1991 AK	13.1	X	271.16823	160.09875	332.53644	1.92861	0.0448055	0.22785474	2.6547931	20	12 17.6	16.3
9953	1991 EB	13.5	X	6.10114	210.80693	255.81674	2.83526	0.1234055	0.23179902	2.6245911	20	—	—
9954	Brachiosaurus	13.4	X	276.11085	48.35760	3.46093	9.07374	0.1293187	0.21485026	2.7608668	20	8 28.1	17.0
9955	1991 PU_{11}	14.0	X	120.49210	24.71052	342.99560	4.98209	0.1786903	0.28745324	2.2738296	20	1 9.5	16.7
9956	Castellaz	14.2	X	179.21266	116.28276	357.91075	5.83198	0.1433114	0.29897784	2.2150152	20	8 1.2	17.4
9957	Raffaellosanti	14.0	X	178.51061	106.46412	220.70574	6.86987	0.1290949	0.28513770	2.2861231	20	1 14.8	17.4
9958	1991 VL_1	14.3	X	356.92796	256.62311	102.56728	5.96679	0.1261055	0.30724505	2.1751011	20	11 26.8	16.4
9959	1991 VF_2	14.5	X	141.26882	246.97877	216.18915	5.65023	0.1398574	0.29318992	2.2440715	20	6 5.2	17.7
9960	Sekine	14.5	X	311.69261	205.79798	147.10478	4.83637	0.1883214	0.30237559	2.1983908	20	8 2.6	15.8
9961	1991 XK	14.3	X	85.87474	290.87101	239.93516	4.85657	0.1051248	0.29368848	2.2415311	20	6 27.9	17.0
9962	Pfau	14.7	X	217.42360	200.34199	312.68352	0.79143	0.1426115	0.26811638	2.3818834	20	10 28.6	17.7
9963	Sandage	13.0	X	47.66819	241.17406	116.90450	23.46732	0.2798781	0.27506520	2.3415977	20	—	—
9964	Hideyonoguchi	13.5	X	359.86683	271.28839	356.41691	6.22234	0.1488481	0.25367991	2.4714130	20	6 29.9	15.9
9965	GNU	14.3	X	126.25074	82.76679	156.45064	12.20758	0.1696778	0.26213649	2.4179709	20	11 17.5	18.4
9966	1992 ES_{13}	15.5	X	329.54982	218.95588	210.46164	2.06337	0.1469911	0.26902595	2.3765116	20	—	—
9967	Awanoyumi	12.9	X	269.48309	167.97313	46.41423	8.60809	0.1738064	0.23744273	2.5828358	20	—	—
9968	Serpe	13.0	X	225.97136	78.89388	213.08676	12.99158	0.0513550	0.23966865	2.5668189	20	1 23.5	16.9
9969	Braille	15.9	X	291.84920	356.18696	241.94779	28.99405	0.4331937	0.27507073	2.3415663	20	—	—
9970	1992 ST_1	12.7	X	47.84000	333.99217	314.97592	7.53853	0.2088386	0.21161311	2.7889517	20	10 21.5	16.6
9971	Ishihara	13.8	X	104.85282	245.82150	20.51895	2.74749	0.1216260	0.30599474	2.1810222	20	12 3.8	16.9
9972	Minoruoda	13.9	X	300.42661	125.22958	97.81118	9.43121	0.1984009	0.28432905	2.2904557	20	1 1.2	17.2
9973	Szpilman	14.3	X	153.20226	104.45684	296.92620	1.49406	0.1720544	0.24481623	2.5307112	20	3 30.7	18.3
9974	Brody	14.2	X	338.36917	126.63230	303.20019	1.72705	0.1795915	0.26709287	2.3879644	20	—	—
9975	Takimotokoso	14.4	X	2.88872	62.54735	246.88569	1.04487	0.1428157	0.25492399	2.4633658	20	9 9.6	16.6
9976	1993 TQ	13.1	X	26.24414	293.37449	66.84292	8.50177	0.2036236	0.22307664	2.6925678	20	12 28.6	16.6
9977	Kentakunimoto	13.1	X	233.79430	179.26226	136.23018	2.76122	0.0714354	0.19608225	2.9343407	20	3 9.4	17.5
9978	1994 AJ_1	13.2	X	90.02187	130.54735	286.98966	9.36125	0.1009430	0.19070026	2.9892933	20	2 4.4	17.2
9979	1994 VT	14.9	X	271.78483	134.69286	335.32938	1.98171	0.1761695	0.26484091	2.4014820	20	11 9.9	17.2
9980	1995 BQ_3	13.6	X	35.97709	257.09229	150.24084	9.42011	0.1950039	0.22956442	2.6415956	20	—	—
9981	Kudo	13.9	X	334.97281	283.18807	164.88869	2.51035	0.0267000	0.22514685	2.6760371	20	—	—
9982	1995 CH	13.9	X	331.85352	296.09000	131.59067	14.30640	0.1566294	0.22378526	2.6868808	20	12 25.4	16.9
9983	Rickfienberg	13.3	X	327.06846	8.68471	49.17829	8.31560	0.1154455	0.22138263	2.7062860	20	11 28.5	16.2
9984	Gregbryant	13.4	X	48.91879	292.49063	288.01623	3.81667	0.0440054	0.25072848	2.4907699	20	7 4.2	16.3
9985	Akiko	14.4	X	349.98671	117.65456	71.05859	5.42951	0.1396518	0.28186758	2.3037709	20	2 4.5	16.6
9986	Hirokun	12.5	X	336.82391	316.56280	271.19217	13.99660	0.0558549	0.23894197	2.5720205	20	3 16.3	16.1
9987	Peano	15.1	X	136.10588	313.43256	130.30142	7.63463	0.0893816	0.29191904	2.2505799	20	5 1.5	18.2
9988	Erictemplebell	13.2	X	131.07992	86.37925	15.48266	1.85692	0.0185115	0.19968968	2.8988938	20	5 10.8	17.3
9989	1997 SG_{16}	13.2	X	142.95008	299.99164	187.40144	1.81935	0.0090789	0.20406746	2.8572848	20	6 28.0	17.2
9990	Niiyaeki	13.5	X	314.83391	161.34956	168.34476	2.09445	0.0878945	0.20692552	2.8309140	20	7 7.3	17.0
9991	Anežka	13.3	X	168.99049	114.90253	80.59723	2.17750	0.1577108	0.17224780	3.1991426	20	10 19.3	18.4
9992	1997 TG_{19}	14.6	X	102.57962	234.81866	42.98387	2.59388	0.2922748	0.30811443	2.1710077	20	12 21.1	18.4
9993	Kumamoto	13.6	X	297.61924	159.41417	166.40650	10.70175	0.0534373	0.24384065	2.5374567	20	6 12.6	17.0
9994	Grotius	14.3	X	81.30620	224.15888	207.14260	7.18019	0.1759200	0.23712711	2.5851272	20	2 13.2	17.4
9995	Alouette	15.0	X	189.28100	198.06798	20.85120	2.31176	0.1606103	0.26670998	2.3902493	20	12 18.8	18.3
9996	ANS	13.6	X	263.58673	166.09024	209.31571	7.65772	0.2351736	0.21074499	2.7966055	20	6 5.8	17.8
9997	COBE	14.3	X	144.06928	90.47341	335.48936	2.45965	0.1130591	0.24266093	2.5456741	20	4 16.9	18.0
9998	ISO	15.0	X	337.87508	33.12475	344.98700	3.91229	0.0938525	0.31026560	2.1609612	20	11 15.5	17.0
9999	Wiles	13.0	X	320.96087	234.14700	76.36626	3.19885	0.0713512	0.20594232	2.8399170	20	6 22.3	16.4
10000	Myriostos	15.1	X	186.28970	200.26847	169.50058	20.64455	0.3059616	0.23718626	2.5846974	20	3 26.4	19.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
10001 Palermo	13.9	X	281.94797	357.88881	40.10630	7.41674	0.1328004	0.26877382	2.3779976	20	8 25.4	16.6
10002 Bagdasarian	13.5	X	11.36870	336.60093	68.23491	2.98376	0.1689860	0.17681627	3.1437976	20	—	—
10003 1971 UD_1	14.6	X	289.22833	278.03742	99.59797	1.57700	0.1290223	0.29935731	2.2131429	20	8 7.4	16.7
10004 Igormakarov	12.9	X	84.66195	294.59425	40.60660	16.79039	0.1754565	0.17936988	3.1138883	20	—	—
10005 Chernega	14.1	X	105.14782	322.36072	21.02465	3.39715	0.2122455	0.27651265	2.3334189	20	—	—
10006 Sessai	13.1	X	65.01621	341.20471	49.31386	9.91547	0.0563095	0.23032854	2.6357500	20	—	—
10007 Malytheatre	11.9	X	237.85802	244.74111	250.67680	13.42134	0.1144918	0.17699113	3.1417265	20	10 14.9	16.7
10008 Raisanyo	13.4	X	82.35167	210.07355	56.90706	1.45216	0.0365606	0.21749313	2.7384555	20	10 16.9	17.2
10009 Hirosetanso	14.1	X	332.89124	113.04980	307.27538	4.11476	0.1044792	0.26552119	2.3973784	20	12 27.3	16.4
10010 Rudruna	14.3	X	304.91541	140.77709	169.20162	6.44137	0.1459496	0.25494418	2.4632357	20	5 18.1	17.2
10011 Avidzba	13.9	X	289.68106	224.32266	168.17622	4.68555	0.1000054	0.25752962	2.4467218	20	8 29.0	16.4
10012 Tmutarakania	14.6	X	306.10328	81.96728	302.04217	1.55929	0.1867136	0.25804896	2.4434379	20	9 3.8	16.7
10013 Stenholm	13.9	X	211.60915	326.14990	164.11975	11.15583	0.2388046	0.25928460	2.4356688	20	9 11.9	17.7
10014 Shaim	13.9	X	32.58571	98.69167	209.75186	3.03258	0.1121266	0.25960936	2.4336371	20	10 25.1	16.8
10015 Valenlebedev	15.2	X	242.48115	215.73329	196.33547	0.81768	0.2003077	0.30119256	2.2041436	20	7 7.5	18.2
10016 Yugan	14.1	X	291.06786	47.71970	332.75564	4.55656	0.1396832	0.25577587	2.4578931	20	8 8.2	16.8
10017 Jaotsungi	13.8	X	26.62889	273.16474	33.90130	9.08837	0.1467720	0.30499170	2.1858014	20	10 29.8	15.9
10018 Lykawka	13.5	X	224.71748	79.97672	162.28644	1.67037	0.1338462	0.18049106	3.1009797	20	—	—
10019 Wesleyfraser	13.8	X	339.75029	276.86580	226.28720	2.84237	0.1107778	0.18180352	3.0860374	20	—	—
10020 Bagenal	12.4	X	178.74622	321.03878	301.64056	4.83456	0.0680853	0.17828577	3.1264987	20	—	—
10021 Henja	13.9	X	78.44931	61.31385	326.11954	11.68467	0.1731716	0.27410518	2.3470620	20	—	—
10022 Zubov	13.8	X	36.78698	155.12428	237.87602	5.39578	0.1315416	0.27030019	2.3690369	20	—	—
10023 Vladifedorov	14.2	X	267.71210	266.59915	124.61452	1.93469	0.1771365	0.25917621	2.4363479	20	7 11.4	17.1
10024 Marthahazen	14.1	X	139.37030	209.96731	2.33511	2.03635	0.0926454	0.25713242	2.4492408	20	10 22.2	17.6
10025 Rauer	12.8	X	162.10568	92.79076	313.63080	1.24281	0.0696981	0.19908779	2.9047335	20	4 11.3	17.0
10026 1980 RE_1	13.8	X	246.67492	135.07397	182.57623	8.73888	0.1722124	0.23913805	2.5706144	20	3 12.6	17.7
10027 Perozzi	14.3	X	274.19280	356.98910	183.88825	7.89627	0.1865090	0.27012006	2.3700899	20	—	—
10028 Bonus	14.2	X	70.47826	67.85558	214.63134	1.64943	0.1768358	0.26001097	2.4311304	20	11 15.9	17.8
10029 Hiramperkins	14.5	X	164.88994	20.99542	341.73871	3.62947	0.2494313	0.24133487	2.5549907	20	2 28.6	18.9
10030 Philkeenan	13.5	X	97.97185	343.46704	349.59419	1.16983	0.1796766	0.18333905	3.0687821	20	—	—
10031 Vladarnolda	13.0	X	139.46878	46.85658	255.45671	12.94671	0.1996547	0.23666046	2.5885243	20	—	—
10032 Hans–Ulrich	13.6	X	45.00739	32.01217	349.43873	8.81955	0.3249378	0.18268335	3.0761209	20	—	—
10033 Bodewits	12.9	X	257.31397	199.00656	67.59774	11.14751	0.0659873	0.18741912	3.0240812	20	2 9.8	17.5
10034 Birlan	13.5	X	56.45706	217.34682	277.32588	14.79443	0.1320881	0.23754032	2.5821283	20	3 18.2	16.9
10035 1982 DC_2	14.8	X	76.78001	344.02432	164.14760	4.79567	0.1430350	0.28853917	2.2681209	20	5 19.9	17.4
10036 McGaha	13.9	X	325.68823	46.81024	303.28750	3.81462	0.2308667	0.25941273	2.4348667	20	8 21.1	15.3
10037 1984 BQ	13.0	X	256.95000	131.81797	52.61061	7.77870	0.0639618	0.26696968	2.3886990	20	—	—
10038 Tanaro	14.7	X	129.19109	232.89067	22.78428	3.39574	0.1018683	0.31300723	2.1483241	20	12 16.9	17.8
10039 Keet Seel	13.0	X	150.57860	84.25448	232.93161	6.48796	0.3693991	0.17620240	3.1510951	20	1 9.1	18.7
10040 1984 QM	14.5	X	354.08960	343.63956	321.26126	3.26660	0.1786390	0.30086483	2.2057440	20	8 27.5	15.9
10041 Parkinson	13.6	X	313.60989	32.02710	181.22559	23.20281	0.1970973	0.27803775	2.3248782	20	1 3.4	17.3
10042 Budstewart	13.1	X	137.58676	32.99086	320.17314	12.72856	0.2236337	0.23863825	2.5742023	20	1 24.6	17.0
10043 Janegann	12.1	X	25.64577	267.76269	151.69060	17.31996	0.1278083	0.17829540	3.1263862	20	—	—
10044 Squyres	13.5	X	165.00625	32.62833	317.97767	16.44641	0.3341303	0.23990972	2.5650991	20	2 16.9	18.2
10045 1985 RJ_3	12.9	X	189.50119	91.84185	173.84520	1.85038	0.1276134	0.17910916	3.1169095	20	—	—
10046 Creighton	13.7	X	157.43605	177.00734	101.66580	8.32473	0.2392271	0.27537018	2.3398685	20	—	—
10047 1986 QK_2	13.7	X	157.05605	176.09136	140.64798	14.22708	0.0508690	0.27445485	2.3450680	20	—	—
10048 Grönbech	12.6	X	99.87853	358.78091	349.46537	16.51163	0.0687733	0.18140880	3.0905124	20	—	—
10049 Vorovich	13.3	X	57.65888	88.23272	285.87414	4.97241	0.1482046	0.17972744	3.1097570	20	—	—
10050 Rayman	13.5	X	166.45500	131.78627	152.30393	12.20849	0.2666253	0.22378861	2.6868540	20	—	—
10051 Albee	14.6	X	129.18710	243.01983	158.90892	21.85380	0.3445513	0.28406405	2.2918799	20	3 25.7	18.4
10052 1987 SM_{12}	13.2	X	189.00652	45.37953	340.33924	1.22883	0.0798975	0.19951801	2.9005564	20	4 15.0	17.5
10053 1987 SR_{12}	13.9	X	226.09016	117.06430	177.32081	4.28601	0.1563464	0.28649500	2.2788969	20	1 20.9	17.5
10054 Solomin	14.0	X	239.96432	1.31338	345.01968	5.40138	0.2048568	0.29062871	2.2572364	20	4 4.7	17.5
10055 Silcher	13.6	X	205.76997	245.19671	125.32499	0.46488	0.0599179	0.19374411	2.9579015	20	4 15.6	17.9
10056 Johnschroer	14.4	X	258.63961	0.80386	232.65418	5.73904	0.0667592	0.27377050	2.3489744	20	—	—
10057 L′Obel	14.4	X	337.24885	316.36689	126.31208	3.98500	0.1409372	0.27005421	2.3704752	20	—	—
10058 1988 DD_5	14.5	X	179.95661	329.33433	282.25382	9.71281	0.2254769	0.26525302	2.3989940	20	—	—
10059 1988 FS_2	13.9	X	195.47435	202.17310	7.78041	2.53306	0.1344843	0.26333610	2.4106220	20	12 16.3	17.4
10060 Amymilne	13.8	X	120.99077	148.56594	67.80548	15.21490	0.1895552	0.25780023	2.4450093	20	10 19.2	18.0
10061 Ndolaprata	13.6	X	35.63187	21.51332	314.82660	12.15446	0.1974775	0.22038592	2.7144394	20	12 8.3	17.4
10062 1988 RV_4	13.9	X	126.42278	23.68497	302.71747	1.62800	0.1758740	0.22693350	2.6619730	20	—	—
10063 Erinleeryan	12.7	X	175.33620	52.07576	123.89312	2.98699	0.0324043	0.12411841	3.9802642	20	9 29.9	18.4
10064 Hirosetamotsu	12.2	X	46.52510	310.39147	31.05306	9.72800	0.1845826	0.21851349	2.7299239	20	12 25.6	16.3
10065 1988 XK	12.9	X	72.18896	261.67531	236.82306	6.91241	0.1774232	0.19872186	2.9082983	20	5 5.7	16.6
10066 1988 XV_2	15.2	X	258.78536	127.53843	286.00650	3.50984	0.2024388	0.30255069	2.1975425	20	7 29.9	17.9
10067 Bertuch	14.6	X	246.38583	247.55414	112.82836	1.78891	0.0896734	0.29417235	2.2390725	20	5 14.4	17.3
10068 Dodoens	13.9	X	45.96586	73.41590	224.87576	5.79141	0.1065027	0.26963554	2.3729284	20	10 30.6	16.7
10069 Fontenelle	12.3	X	208.71888	43.99060	256.93957	9.01073	0.0595810	0.18958387	3.0010171	20	1 23.7	16.9
10070 Liuzongli	14.3	X	31.35234	208.45854	346.91678	2.26441	0.0940825	0.28980218	2.2615262	20	5 2.9	16.3
10071 Paraguay	15.1	X	283.88446	263.67201	270.53295	6.79758	0.1153667	0.27926033	2.3180878	20	—	—
10072 Uruguay	14.4	X	84.24066	150.54577	338.14103	3.73698	0.1046889	0.28672995	2.2776519	20	4 22.5	16.9
10073 1989 GJ_2	13.9	X	13.75528	167.33925	229.57057	7.18147	0.1111822	0.27151994	2.3619366	20	—	—
10074 Van den Berghe	14.1	X	162.37024	322.69627	350.86546	4.93521	0.0212189	0.27779591	2.3262273	20	—	—
10075 Campeche	14.1	X	105.60245	302.67658	186.51302	4.09520	0.1131991	0.28884212	2.2665346	20	5 27.5	17.0
10076 1989 PK	13.8	X	131.92276	6.59116	327.90861	20.16770	0.3134740	0.23465412	2.6032583	20	1 9.7	18.2
10077 1989 UL_1	13.1	X	218.37528	295.81570	44.20774	10.26670	0.1122248	0.24064781	2.5598515	20	3 21.4	17.1
10078 Stanthorpe	13.6	X	243.52479	291.36987	359.50754	13.11288	0.1797482	0.24073083	2.5592630	20	2 10.7	17.9
10079 Meunier	14.1	X	60.49270	261.64241	124.07945	7.13831	0.2317863	0.23018518	2.6368443	20	—	—
10080 1990 OF_1	12.8	X	156.27867	140.87470	160.01076	14.33065	0.1857924	0.17877087	3.1208403	20	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
10081 1990 OW_1	14.5	X	45.95706	248.67679	40.40853	4.15175	0.1795288	0.29966453	2.2116301	20	11 4.3	17.2
10082 1990 OF_2	14.9	X	63.31302	350.47440	353.67303	5.01581	0.2423066	0.27193968	2.3595055	20	—	—
10083 1990 QE_2	14.1	X	20.91157	311.12294	335.16932	5.01740	0.1599368	0.29601650	2.2297633	20	9 18.2	16.0
10084 1990 QC_5	14.1	X	45.85005	253.15878	12.66797	3.51236	0.1616114	0.29712874	2.2241954	20	9 29.5	16.4
10085 1990 QF_5	12.3	X	173.20000	243.51188	352.03728	15.00627	0.0611002	0.17233560	3.1980559	20	12 9.4	17.4
10086 1990 SZ	13.9	X	80.55065	73.05001	346.81414	10.55832	0.1772391	0.24338611	2.5406150	20	2 1.4	16.8
10087 1990 SG_3	14.0	X	235.07656	197.98267	131.00646	4.04805	0.1908891	0.28491153	2.2873328	20	3 13.4	17.5
10088 Digne	13.8	X	8.90043	24.13159	91.13122	3.44696	0.1847823	0.27527603	2.3404020	20	—	—
10089 Turgot	14.0	X	352.02074	327.14090	92.97848	3.32544	0.1991399	0.26888970	2.3773143	20	—	—
10090 Sikorsky	13.4	X	47.49725	39.66370	342.13778	6.30121	0.1275135	0.27023291	2.3694300	20	—	—
10091 Bandaisan	14.1	X	299.79614	226.67320	277.30005	3.23870	0.0625792	0.26965156	2.3728344	20	—	—
10092 Sasaki	14.7	X	1.92512	223.00738	171.18128	1.78128	0.1888299	0.26546158	2.3977373	20	—	—
10093 Diesel	14.6	X	113.04132	137.84537	146.38683	6.80296	0.1055085	0.26613596	2.3936850	20	12 26.8	18.3
10094 Eijikato	12.1	X	168.57182	20.38440	356.98992	15.67495	0.1453219	0.23811042	2.5780052	20	3 15.6	16.0
10095 Carlloewe	12.5	X	276.54493	52.64752	212.61145	9.40397	0.0484796	0.18930976	3.0039133	20	2 25.0	16.9
10096 1991 RK_5	12.4	X	176.32066	325.03468	12.68252	10.86879	0.1177114	0.18669476	3.0318983	20	2 11.5	17.3
10097 1991 RV_{16}	14.8	X	173.46981	19.73399	21.52180	7.14335	0.1167158	0.29458690	2.2369714	20	4 14.7	17.9
10098 1991 SC_1	12.9	X	168.50154	296.20988	42.14798	10.42885	0.0905783	0.18713326	3.0271601	20	2 2.7	17.7
10099 Glazebrook	13.5	X	289.26678	325.26113	94.79343	2.89895	0.1177395	0.16778710	3.2555947	20	9 20.7	17.7
10100 Bürgel	14.3	X	233.78970	11.32588	47.47519	1.92509	0.1754442	0.26254636	2.4154537	20	7 8.7	17.9
10101 Fourier	14.2	X	194.41398	208.40140	213.55853	3.91984	0.0998696	0.29216923	2.2492949	20	6 6.0	17.3
10102 Digerhuvud	14.7	X	160.82775	44.39108	140.22350	1.82506	0.1336451	0.26162174	2.4211415	20	10 10.3	18.2
10103 Jungfrun	14.1	X	61.37669	307.42918	11.15286	7.31325	0.1051022	0.26469177	2.4023840	20	12 13.8	17.5
10104 Hoburgsgubben	15.8	X	251.02183	291.58818	317.56721	2.61306	0.0755756	0.27651233	2.3334207	20	—	—
10105 Holmhällar	13.5	X	10.72880	54.95049	143.90968	0.87637	0.1000065	0.17801413	3.1296786	20	4 11.1	17.1
10106 Lergrav	15.6	X	350.85860	309.56744	164.05904	2.15359	0.1649468	0.27477042	2.3432721	20	—	—
10107 Kenny	14.7	X	12.03368	268.32921	191.42867	22.61223	0.2685998	0.27655689	2.3331701	20	—	—
10108 Tomlinson	13.4	X	177.73709	181.91705	50.36886	25.99232	0.1521001	0.26482141	2.4015999	20	12 20.3	17.4
10109 1992 KQ	12.5	X	119.81503	201.43629	103.35989	14.85809	0.1727582	0.22641792	2.6660125	20	—	—
10110 1992 LJ	14.0	X	55.24570	100.15818	144.96466	4.12790	0.1415633	0.25192543	2.4828742	20	9 3.4	17.0
10111 Fresnel	12.3	X	54.87461	53.85067	138.09701	14.84026	0.0121621	0.24138681	2.5546242	20	6 1.2	15.9
10112 1992 OP_1	12.4	X	72.79234	102.70247	240.14899	15.06146	0.1019614	0.18575358	3.0421311	20	—	—
10113 1992 PX_2	12.7	X	292.61545	311.12728	286.53443	11.22733	0.1507698	0.23450851	2.6043358	20	1 23.4	16.3
10114 Greifswald	12.8	X	164.94519	158.05527	279.79377	0.95123	0.0311517	0.20158798	2.8806664	20	5 22.9	16.8
10115 1992 SK	17.0	X	34.01946	233.67336	8.91069	15.32040	0.3247858	0.70657277	1.2484317	20	10 31.4	17.9
10116 Robertfranz	12.8	X	354.87169	321.68951	168.01813	10.92196	0.0563157	0.18960889	3.0007531	20	—	—
10117 Tanikawa	13.1	X	129.26656	193.44504	188.15300	10.69132	0.1141369	0.19210253	2.9747284	20	2 8.7	17.7
10118 1992 UK_1	12.9	X	9.39647	51.28207	265.44059	8.05291	0.1608385	0.20979759	2.8050184	20	9 21.3	16.2
10119 Remarque	13.0	X	278.29535	90.78242	83.07956	2.51794	0.1353242	0.17798459	3.1300248	20	—	—
10120 Ypres	13.0	X	331.08547	334.56901	86.27912	10.53379	0.0686520	0.17422744	3.1748632	20	11 26.8	17.2
10121 Arzamas	13.4	X	131.20368	263.45759	30.70763	0.89105	0.1518904	0.17181167	3.2045541	20	—	—
10122 Froding	13.4	X	299.68885	284.69010	156.90829	0.50757	0.1782397	0.17149005	3.2085596	20	10 25.9	17.2
10123 Fideöja	14.3	X	198.68497	267.78370	76.81514	4.05425	0.2056157	0.28833854	2.2691729	20	3 1.7	18.1
10124 Hemse	13.8	X	192.98110	355.16326	1.72752	8.74999	0.1708993	0.28924924	2.2644074	20	3 10.6	17.4
10125 Stenkyrka	14.5	X	24.21879	336.53150	353.71477	4.81886	0.1811272	0.30470845	2.1871558	20	12 3.3	17.1
10126 Larbro	15.3	X	6.08769	19.72883	286.72228	1.18111	0.1796620	0.30049874	2.2075351	20	9 26.9	17.1
10127 Fröjel	15.3	X	219.21864	74.65172	341.85375	4.31477	0.1317397	0.30001029	2.2099305	20	6 24.9	18.3
10128 Bro	14.2	X	178.89017	212.97289	148.54459	5.60206	0.2302181	0.28852901	2.2681741	20	3 5.6	17.8
10129 Fole	14.8	X	356.45268	318.83431	60.35585	1.98822	0.0805564	0.30925579	2.1656627	20	12 17.7	16.7
10130 Ardre	14.9	X	241.65996	162.06346	341.67246	2.06068	0.0346419	0.31060709	2.1593770	20	12 15.3	17.3
10131 Stanga	15.6	X	121.40863	134.35470	222.38044	2.78382	0.1760436	0.28217269	2.3021099	20	—	—
10132 Lummelunda	13.9	X	296.84924	165.01212	182.87257	8.05857	0.1648706	0.29843249	2.2177128	20	6 26.5	16.2
10133 1993 GC_1	13.6	X	183.63811	260.70054	68.33857	5.24324	0.1604161	0.28385794	2.2929892	20	1 27.3	17.1
10134 1993 HL_6	13.8	X	113.66809	346.12202	215.58125	7.52447	0.1445415	0.30283713	2.1961566	20	9 17.2	17.1
10135 1993 LZ_1	13.7	X	36.49160	87.21459	275.30006	5.75472	0.1268791	0.26815161	2.3816747	20	—	—
10136 Gauguin	14.1	X	86.60785	93.50648	120.43924	6.40499	0.1089795	0.29508895	2.2344334	20	9 3.1	16.9
10137 Thucydides	14.4	X	291.69577	50.82963	317.07558	3.76340	0.1990946	0.25278949	2.4772131	20	7 10.5	16.9
10138 Ohtanihiroshi	13.9	X	108.51918	285.29794	146.76262	4.02615	0.1478896	0.23792570	2.5793393	20	3 21.8	17.5
10139 Ronsard	14.5	X	241.02012	195.26380	57.56783	0.99992	0.0263171	0.27351792	2.3504203	20	—	—
10140 Villon	13.7	X	190.34006	21.13731	165.44986	2.62113	0.1320731	0.26184044	2.4197931	20	11 11.9	17.2
10141 Gotenba	12.5	X	178.06887	273.64876	38.96195	13.57559	0.1750689	0.23329298	2.6133742	20	1 9.5	16.9
10142 Sakka	12.0	X	313.09427	316.19830	71.64699	11.74567	0.2513093	0.21628785	2.7486196	20	9 16.6	14.7
10143 Kamogawa	12.4	X	23.44737	191.97711	316.68338	19.49615	0.2169660	0.19114952	2.9846076	20	2 21.8	15.3
10144 1994 AB_2	13.0	X	104.14313	229.94058	232.11059	0.76858	0.0254166	0.19631930	2.9319781	20	4 8.2	17.1
10145 1994 CK_1	16.8	X	106.74180	27.38432	328.40425	4.54812	0.6325845	0.37604157	1.9009855	20	1 31.7	18.8
10146 Mukaitadashi	13.6	X	321.55966	73.43686	66.35696	3.89760	0.1842287	0.18275291	3.0753403	20	—	—
10147 Mizugatsuka	13.3	X	229.65903	79.84072	57.69762	2.44383	0.1305272	0.17399479	3.1776926	20	10 10.6	17.9
10148 Shirase	12.6	X	177.47654	221.11385	9.07669	0.45453	0.1410673	0.17121160	3.2120374	20	12 4.9	17.8
10149 Cavagna	15.2	X	202.70462	237.69041	249.09979	6.11847	0.0274993	0.30595818	2.1811959	20	9 22.4	17.9
10150 1994 PN	15.4	X	357.02687	233.96569	113.01103	45.96102	0.5437910	0.26928686	2.3749763	20	—	—
10151 Rubens	14.2	X	195.34630	26.48062	337.50239	6.31149	0.1956192	0.29044361	2.2581953	20	3 19.3	17.9
10152 Ukichiro	13.7	X	33.29517	358.47099	345.48125	6.50695	0.1415225	0.27149382	2.3620880	20	12 20.2	16.8
10153 Goldman	14.4	X	156.10065	132.61267	154.73008	9.28200	0.1973520	0.28048384	2.3113417	20	—	—
10154 Tanuki	14.5	X	159.28952	315.11416	117.71993	2.25175	0.1093389	0.28874391	2.2670486	20	5 12.9	17.5
10155 Numaguti	14.2	X	48.00168	341.64113	33.50376	9.04947	0.2506842	0.27269238	2.3551616	20	—	—
10156 1994 VQ_7	14.6	X	177.68883	136.36839	228.47425	2.86170	0.1697577	0.28570235	2.2831100	20	3 4.3	18.1
10157 Asagiri	14.1	X	280.49772	81.67295	64.57355	7.30578	0.0603515	0.26947611	2.3738642	20	—	—
10158 Taroubou	13.8	X	311.35094	296.19385	56.62045	5.38957	0.2099628	0.25758424	2.4463759	20	7 25.1	16.0
10159 Tokara	13.7	X	117.17125	161.71681	105.61769	7.42200	0.1331718	0.26286532	2.4134993	20	12 10.5	17.4
10160 Totoro	14.0	X	29.48291	278.58453	83.25444	6.87331	0.1315392	0.26504381	2.4002562	20	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
10161 Nakanoshima	14.3	X	355.42948	14.76127	56.09259	3.97622	0.0382682	0.26738265	2.3862388	20	—	—
10162 Issunboushi	14.6	X	22.68043	193.91203	100.74641	7.03721	0.0950170	0.25493722	2.4632806	20	9 20.9	17.5
10163 Onomichi	15.7	X	28.04441	76.61085	308.78551	1.51706	0.2052871	0.26766931	2.3845348	20	—	—
10164 Akusekijima	12.8	X	91.22787	266.58014	134.83142	14.54204	0.1623593	0.23475111	2.6025412	20	1 19.8	16.0
10165 1995 BL_2	17.3	X	22.26098	348.43715	312.43924	23.89782	0.5038536	0.71841778	1.2346713	20	—	—
10166 Takarajima	13.7	X	119.73549	275.19179	84.51036	3.72082	0.1351665	0.23166112	2.6256325	20	1 1.3	17.3
10167 Yoshiwatiso	13.9	X	103.91409	241.00333	25.46072	3.26388	0.1530504	0.25708488	2.4495428	20	11 25.5	17.8
10168 Stony Ridge	15.0	X	252.92761	286.69159	118.70739	7.40793	0.0845813	0.21444758	2.7643219	20	7 22.8	18.7
10169 Ogasawara	13.4	X	68.89416	356.88801	161.19033	9.98774	0.1118260	0.20223919	2.8744792	20	5 19.9	17.3
10170 Petrjakeš	14.0	X	300.78595	103.38995	103.77809	9.05276	0.1306857	0.23199023	2.6231488	20	—	—
10171 Takaotengu	13.2	X	15.94197	143.40814	350.37832	15.09868	0.1241725	0.23237758	2.6202329	20	1 18.9	16.3
10172 Humphreys	13.7	X	66.60521	298.47672	10.34450	5.44684	0.0603731	0.21740710	2.7391779	20	11 20.9	17.5
10173 Hanzelkazikmund	14.4	X	164.87832	76.99856	212.50489	8.81252	0.0722262	0.18223466	3.0811681	20	—	—
10174 Emička	14.1	X	199.13782	342.48328	213.29395	4.43455	0.2386248	0.21700026	2.7426005	20	11 14.9	18.7
10175 Aenona	13.9	X	284.86403	91.90383	195.93352	5.70564	0.1283747	0.28809202	2.2704672	20	3 16.4	16.7
10176 Gaiavettori	14.6	X	20.38090	154.42434	125.18574	5.67419	0.2077145	0.29843621	2.2176944	20	9 20.1	16.5
10177 Ellison	13.7	X	173.91757	174.96621	151.90277	6.58685	0.1556806	0.28124803	2.3071530	20	1 13.3	17.1
10178 Iriki	14.8	X	232.95225	54.07296	53.46599	2.26031	0.0021869	0.30458185	2.1877618	20	10 15.9	17.3
10179 Ishigaki	12.9	X	104.21324	187.91508	145.37439	16.15960	0.1362980	0.23349165	2.6118916	20	—	—
10180 1996 EE_2	14.7	X	155.89609	208.33143	177.85083	4.37552	0.1321846	0.28699765	2.2762353	20	3 8.3	17.9
10181 Davidacomba	16.2	X	228.40144	315.92345	122.99476	5.28330	0.0968187	0.29928874	2.2134810	20	8 12.2	18.8
10182 Junkobiwaki	13.7	X	287.10620	189.55430	28.27284	7.30996	0.1414475	0.27905760	2.3192104	20	—	—
10183 Ampère	15.3	X	57.47647	80.41225	91.95684	0.37579	0.1374953	0.28920554	2.2646355	20	5 22.5	17.3
10184 Galvani	14.8	X	28.41908	175.07080	199.34037	2.34812	0.1055912	0.26529457	2.3987435	20	—	—
10185 Gaudi	13.3	X	238.19327	215.41316	60.63493	4.45457	0.2159319	0.23545139	2.5973783	20	1 14.8	17.6
10186 Albéniz	14.1	X	58.32444	91.10403	205.46041	6.19562	0.2048216	0.25802573	2.4435846	20	11 24.3	17.7
10187 1996 JV	13.0	X	108.04540	157.01809	118.36119	24.11134	0.1887642	0.26319116	2.4115069	20	12 16.6	17.3
10188 Yasuoyoneda	13.7	X	125.94533	103.73302	184.91533	10.04267	0.2442305	0.26332979	2.4106605	20	—	—
10189 Normanrockwell	13.4	X	46.75248	233.15166	143.10764	8.01317	0.0888523	0.22555608	2.6727994	20	—	—
10190 1996 NC	13.6	X	257.92445	284.76551	102.42250	3.19066	0.0376978	0.20431446	2.8549816	20	7 11.5	17.3
10191 1996 NU_1	13.1	X	131.60757	20.07273	309.58761	10.19005	0.0549368	0.22481885	2.6786393	20	—	—
10192 1996 OQ_1	13.8	X	34.15425	324.02589	315.53664	1.10648	0.0403321	0.20559448	2.8431193	20	8 29.0	17.3
10193 Nishimoto	13.9	X	174.41461	142.50247	162.48029	0.58796	0.2868172	0.18307088	3.0717783	20	1 7.2	19.3
10194 1996 QN_1	13.2	X	245.06590	328.06488	338.50815	9.81275	0.0795477	0.19116287	2.9844687	20	3 8.7	17.7
10195 Nebraska	12.3	X	310.06570	346.29561	14.71310	14.50382	0.1869326	0.20073183	2.8888515	20	8 6.1	15.8
10196 1996 TJ_{15}	13.3	X	84.76426	214.91864	118.32170	2.22848	0.1391825	0.17208568	3.2011515	20	—	—
10197 Senigalliesi	13.4	X	10.73908	302.67335	13.68518	1.84418	0.0703236	0.20564954	2.8426118	20	9 17.3	17.0
10198 Pinelli	13.4	X	78.12612	227.12442	64.53733	2.94731	0.0501285	0.20321353	2.8652838	20	11 10.8	17.4
10199 Chariklo	6.7	X	93.11753	243.38577	300.43569	23.34970	0.1692575	0.01562961	15.8429946	20	7 19.6	18.8
10200 Quadri	14.4	X	29.17207	232.31922	61.89429	4.37362	0.1656069	0.21939116	2.7226384	20	10 3.0	17.6
10201 Korado	15.3	X	30.38169	85.81152	192.52339	4.42597	0.1890103	0.30368618	2.1920613	20	9 30.1	17.3
10202 1997 PE	13.7	X	319.04307	286.16834	201.81136	5.96112	0.0584021	0.27598988	2.3363646	20	—	—
10203 Flinders	14.4	X	231.72053	306.35500	125.07598	4.69397	0.0799329	0.30132731	2.2034864	20	8 8.1	17.1
10204 Turing	13.9	X	204.87493	293.74144	143.03588	6.91069	0.0795130	0.20965409	2.8062983	20	7 6.4	18.1
10205 Pokorný	14.3	X	179.70555	180.19523	93.70377	5.93261	0.1215572	0.27579875	2.3374439	20	—	—
10206 1997 PC_2	14.3	X	141.89124	326.28926	319.19893	1.33770	0.0702140	0.27193922	2.3595082	20	—	—
10207 Comeniana	13.7	X	51.40430	26.74423	317.57061	6.81924	0.0834329	0.26315395	2.4117343	20	—	—
10208 Germanicus	14.5	X	286.12763	114.90942	223.62552	4.56173	0.2015269	0.29490532	2.2353609	20	5 18.9	17.1
10209 Izanaki	14.0	X	335.00779	339.23894	44.36054	3.34002	0.1994374	0.26034504	2.4290503	20	11 13.3	15.8
10210 Nathues	13.5	X	47.12045	75.36147	191.77015	5.89607	0.0909161	0.25260186	2.4784397	20	9 12.8	16.5
10211 La Spezia	14.3	X	40.43192	98.87103	172.81950	2.48121	0.1757517	0.25819531	2.4425145	20	9 25.7	17.2
10212 1997 RA_7	13.9	X	114.75217	21.11762	243.07351	2.40321	0.0918107	0.30882614	2.1676709	20	12 11.9	16.8
10213 Koukolík	14.4	X	345.01341	54.88577	302.66376	7.18343	0.2628746	0.25950684	2.4342780	20	10 30.4	16.2
10214 1997 RT_9	13.7	X	334.37298	241.57462	179.40626	5.23745	0.2116823	0.21935960	2.7228996	20	12 22.8	16.3
10215 Lavilledemirmont	14.6	X	154.35975	306.25742	59.35744	0.70415	0.1610699	0.19264293	2.9691627	20	2 21.9	19.2
10216 Popastro	13.4	X	280.44102	291.09770	148.60393	5.70249	0.1398781	0.21527799	2.7572086	20	10 9.2	16.7
10217 Richardcook	12.4	X	118.18848	2.86856	357.51758	13.17977	0.2569731	0.23265638	2.6181393	20	1 20.7	16.4
10218 Bierstadt	14.6	X	205.13516	204.32030	11.76775	3.19849	0.1566948	0.26556907	2.3970902	20	—	—
10219 Penco	14.7	X	202.37886	340.23619	355.13973	4.38174	0.0987280	0.28121043	2.3073586	20	2 20.8	18.1
10220 Pigott	14.3	X	247.82213	196.50087	337.25996	12.37623	0.1193895	0.22317730	2.6917582	20	12 28.3	17.9
10221 Kubrick	13.9	X	244.37372	87.17145	45.68590	7.50888	0.0396836	0.26005376	2.4308638	20	11 19.4	16.8
10222 Klotz	12.9	X	206.46356	271.16265	240.32417	7.97970	0.1040271	0.21367087	2.7710169	20	10 7.8	17.2
10223 Zashikiwarashi	13.2	X	222.80221	158.54061	52.83167	1.82807	0.1398039	0.17865858	3.1221478	20	12 28.4	17.7
10224 Hisashi	14.3	X	47.97364	187.96994	126.41565	3.43274	0.1666057	0.26007341	2.4307414	20	12 1.0	17.5
10225 1997 VQ_1	12.8	X	249.12198	166.99228	245.59759	8.30022	0.0696993	0.20543422	2.8445977	20	7 26.4	16.9
10226 Seishika	12.9	X	75.64052	349.17507	269.43799	6.11093	0.1262194	0.25141569	2.4862290	20	10 11.6	16.5
10227 Izanami	12.3	X	31.13673	165.57791	243.89551	12.67629	0.0717376	0.17812734	3.1283523	20	—	—
10228 1997 VY_8	13.0	X	110.40488	65.22901	304.28540	8.56209	0.1049016	0.18423539	3.0588206	20	1 6.9	17.3
10229 1997 WR_3	13.9	X	166.51189	248.21850	49.95718	6.82639	0.1140598	0.26982978	2.3717894	20	—	—
10230 1997 WU_{35}	13.8	X	49.03342	232.98030	357.80502	1.60726	0.0096051	0.20091655	2.8870806	20	7 11.4	17.6
10231 1997 WQ_{37}	13.4	X	168.50930	285.33013	106.61377	4.20480	0.0659568	0.19297037	2.9658030	20	4 3.4	17.8
10232 1997 WR_{49}	13.4	X	81.58366	165.84885	143.77498	1.81314	0.2314862	0.17358479	3.1826943	20	12 18.6	18.4
10233 Le Creusot	13.3	X	94.59251	140.76913	182.55176	2.58132	0.0868254	0.21913571	2.7247539	20	—	—
10234 Sixtygarden	12.7	X	249.12158	196.47843	131.75959	10.54468	0.0713701	0.19095829	2.9865999	20	4 15.2	17.2
10235 1998 QR_{37}	12.6	X	67.91151	12.47671	273.01050	2.66003	0.1606506	0.18455600	3.0552771	20	11 1.0	17.1
10236 1998 QA_{93}	13.5	X	78.82743	12.60576	39.83652	3.93813	0.1371655	0.28496664	2.2870379	20	—	—
10237 Adzic	15.0	X	336.19227	137.02359	114.51742	1.14743	0.0565115	0.30075336	2.2062890	20	4 22.6	17.0
10238 1998 SO_{140}	14.8	X	326.78339	128.73967	221.44348	3.60958	0.1496134	0.31149341	2.1552789	20	9 9.2	16.1
10239 Hermann	12.4	X	352.40270	292.23407	28.47942	16.94018	0.2361061	0.17457817	3.1706095	20	9 5.6	15.8
10240 1998 VW_{34}	13.7	X	166.08583	190.44242	211.54728	1.38273	0.0684723	0.20329535	2.8645149	20	4 10.4	18.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
10241 Miličević	13.6	X	133.07430	190.95861	151.75603	1.61732	0.1582985	0.18511047	3.0491730	20	1 6.1	18.1
10242 Wasserkuppe	15.0	X	184.61371	312.68419	179.89332	2.04798	0.1523509	0.26106158	2.4246036	20	8 25.7	18.8
10243 Hohe Meissner	13.7	X	215.53107	192.89873	299.83777	6.60436	0.1701103	0.21298276	2.7769821	20	9 16.7	18.2
10244 Thüringer Wald	14.6	X	320.35386	28.87947	28.08944	7.46600	0.1012213	0.26447601	2.4036904	20	11 28.1	17.0
10245 Inselsberg	13.2	X	134.89295	341.95065	196.39102	8.89621	0.0911083	0.21239004	2.7821463	20	8 27.4	17.6
10246 Frankenwald	14.6	X	136.11761	246.02060	181.92043	10.16630	0.0569186	0.24044563	2.5612863	20	4 6.7	18.1
10247 Amphiaraos	11.1	X	255.20803	336.17213	162.50778	4.18882	0.0068039	0.08144855	5.2708479	20	11 9.6	18.0
10248 Fichtelgebirge	14.5	X	345.87661	80.14537	92.86640	4.37828	0.1861240	0.23849812	2.5752106	20	1 6.9	17.3
10249 Harz	14.4	X	122.35476	342.65167	51.87058	3.63431	0.0939257	0.23829764	2.5766547	20	2 12.3	17.8
10250 Hellahaasse	14.4	X	280.19540	343.77648	198.19893	6.54839	0.0387191	0.27593043	2.3367002	20	—	—
10251 Mulisch	15.1	X	8.86991	205.29735	250.96760	2.06642	0.0877779	0.27660028	2.3329260	20	—	—
10252 Heidigraf	13.2	X	303.29360	288.88349	33.28246	2.25836	0.0706468	0.20447691	2.8534693	20	6 11.5	16.8
10253 Westerwald	15.2	X	56.12224	63.18038	53.37784	0.37868	0.1507153	0.28335230	2.2957163	20	2 24.9	17.0
10254 Hunsrück	14.6	X	354.75912	97.75800	161.13615	3.51505	0.0648141	0.28931117	2.2640842	20	6 5.7	16.8
10255 Taunus	14.6	X	161.49661	267.08484	151.49825	2.23635	0.1284330	0.28990197	2.2610071	20	4 27.1	17.8
10256 Vredevoogd	15.0	X	28.70955	345.31667	163.70391	5.93454	0.1023682	0.28696218	2.2764229	20	2 16.4	17.1
10257 Garecynthia	13.0	X	241.88191	222.14035	138.59512	4.97297	0.0766437	0.15307673	3.4609601	20	5 14.9	18.1
10258 Sárneczky	12.1	X	155.90143	290.84108	128.76963	14.19572	0.0932796	0.17559415	3.1583677	20	4 29.7	17.2
10259 Osipovyurij	12.4	X	257.20563	61.57894	212.18877	16.58227	0.2444310	0.17928988	3.1148146	20	1 26.2	17.9
10260 1972 *TC*	13.1	X	153.59677	159.26983	247.07380	12.59754	0.1711750	0.23803554	2.5785458	20	4 3.1	17.4
10261 Nikdollezhal′	13.4	X	80.98066	6.01536	331.91693	9.25064	0.2539180	0.26318810	2.4115256	20	—	—
10262 Samoilov	12.3	X	222.54605	304.70227	34.91151	13.17757	0.1842425	0.23280277	2.6170415	20	3 22.9	16.7
10263 Vadimsimona	12.9	X	276.98951	291.51895	209.14220	10.37125	0.1690525	0.22685244	2.6626071	20	12 21.6	16.0
10264 Marov	13.2	X	144.89393	35.10511	255.09312	0.32734	0.1729781	0.17141681	3.2094734	20	—	—
10265 Gunnarsson	12.6	X	320.92840	118.93578	331.58520	9.41037	0.0866566	0.17008070	3.2262600	20	12 15.9	16.9
10266 Vladishukhov	14.0	X	324.73839	37.56922	347.20417	7.28417	0.2336151	0.21091120	2.7951360	20	10 1.1	16.3
10267 Giuppone	14.1	X	265.82850	333.33493	74.35856	3.12013	0.0721146	0.20603068	2.8391050	20	8 14.4	17.9
10268 1979 HW_6	14.4	X	37.93835	346.12055	266.85313	0.36314	0.1294544	0.29172559	2.2515747	20	8 21.9	16.5
10269 Tusi	12.6	X	116.33915	273.93072	88.15794	2.49613	0.1694540	0.17689422	3.1428739	20	1 14.1	17.1
10270 Skoglöv	14.5	X	234.18314	114.07957	355.96011	5.78546	0.0848944	0.25735584	2.4478231	20	9 28.0	17.5
10271 1980 TV_2	14.3	X	171.90337	32.99207	6.63357	6.20751	0.2481872	0.28653532	2.2786831	20	4 15.2	18.1
10272 Yuko	14.8	X	329.44700	77.14299	337.05374	11.90003	0.1090957	0.21600484	2.7510199	20	11 23.1	18.2
10273 Katvolk	15.1	X	274.96255	261.42702	326.33493	3.59065	0.1431144	0.27303590	2.3531857	20	—	—
10274 Larryevans	13.4	X	359.83243	51.41570	350.17253	15.75055	0.0695772	0.21673453	2.7448418	20	12 24.9	17.3
10275 Nathankaib	14.9	X	222.73320	352.14721	271.11998	3.66442	0.2055155	0.27095577	2.3652140	20	—	—
10276 Matney	15.1	X	169.96743	129.83451	185.15368	3.06586	0.1851783	0.27190093	2.3597297	20	—	—
10277 Micheli	13.9	X	67.51916	254.71504	128.99178	1.44740	0.0911355	0.22029624	2.7151760	20	—	—
10278 Virkki	15.1	X	330.49855	175.09132	171.03441	0.92988	0.1734954	0.31087551	2.1581339	20	9 13.5	16.2
10279 Rhiannonblaauw	15.1	X	149.23931	328.46559	332.80723	1.81002	0.2065834	0.26866436	2.3786434	20	—	—
10280 Yequanzhi	15.3	X	39.79084	78.84649	329.55839	1.49293	0.1966211	0.27127001	2.3633871	20	—	—
10281 Libourel	13.5	X	177.69711	247.52913	11.22879	10.53687	0.0374838	0.21870530	2.7283276	20	—	—
10282 Emilykramer	14.8	X	42.16512	36.11753	335.83032	2.06956	0.0859500	0.21792232	2.7348588	20	—	—
10283 Cromer	13.8	X	142.10697	244.67816	62.40771	3.00816	0.2099748	0.26656699	2.3911040	20	—	—
10284 1981 QY_2	13.2	X	56.31378	118.17061	133.61447	2.88800	0.0169848	0.20167881	2.8798014	20	8 19.1	16.9
10285 Renémichelsen	13.9	X	196.64386	162.54764	132.64011	7.55765	0.1228342	0.27288460	2.3540555	20	—	—
10286 Shnollia	13.7	X	60.33630	16.73992	6.07434	6.92079	0.1283541	0.26675306	2.3899920	20	—	—
10287 Smale	13.8	X	330.10822	280.27307	92.00941	4.64035	0.2438226	0.25833162	2.4416552	20	10 17.8	15.3
10288 Saville	14.5	X	133.66275	111.28185	251.51336	9.33951	0.2482793	0.27690127	2.3312351	20	1 26.0	18.0
10289 Geoffperry	13.3	X	118.40405	242.70213	63.77891	1.97477	0.1912026	0.17189847	3.2034753	20	—	—
10290 Kettering	14.1	X	181.10678	250.00568	39.04268	2.89359	0.1961139	0.26666230	2.3905342	20	—	—
10291 1985 *UT*	12.6	X	315.37500	256.45572	57.60038	8.09956	0.1105594	0.19121335	2.9839434	20	6 12.9	16.3
10292 1986 *PM*	13.8	X	327.96610	335.71377	297.27027	5.27410	0.1733643	0.28646026	2.2790812	20	4 21.8	15.9
10293 Pribina	12.2	X	270.91703	4.91611	286.02614	8.96631	0.0717496	0.18932200	3.0037837	20	3 16.2	16.7
10294 1988 AA_2	14.1	X	106.11487	356.77316	92.27872	5.32988	0.1694191	0.28135334	2.3065772	20	4 12.1	17.1
10295 Hippolyta	16.6	X	186.55201	222.87252	21.66966	19.23942	0.3334906	0.35515821	1.9747925	20	—	—
10296 Rominadisisto	12.8	X	290.16367	98.92311	9.05859	3.50600	0.2095174	0.12562228	3.9484344	20	10 27.9	18.0
10297 Lynnejones	13.8	X	293.21898	243.00525	37.25167	14.43701	0.0688264	0.23760368	2.5816692	20	4 5.2	17.2
10298 Jiangchuanhuang	14.0	X	6.34619	83.87907	120.19990	2.69098	0.0181074	0.23613422	2.5923687	20	4 8.5	17.3
10299 1988 VS_3	13.4	X	109.20100	111.95442	245.64507	10.32762	0.2174669	0.22449364	2.6812255	20	—	—
10300 Tanakadate	14.5	X	143.60252	4.77645	158.88073	5.46368	0.1023234	0.29576691	2.2310176	20	8 28.6	17.7
10301 Kataoka	14.5	X	72.17772	133.01994	82.31993	2.72856	0.0993451	0.29217332	2.2492739	20	8 13.9	17.1
10302 1989 *ML*	19.3	X	188.53550	183.35436	104.34016	4.37824	0.1364029	0.68685924	1.2722063	20	—	—
10303 Fréret	14.3	X	138.85764	166.49804	166.77084	2.83405	0.2435079	0.26873311	2.3782377	20	—	—
10304 Iwaki	13.4	X	139.04312	46.00431	25.64865	12.73382	0.2822151	0.23972212	2.5664372	20	5 1.3	17.8
10305 Grignard	13.6	X	245.49985	225.19362	126.97581	5.65262	0.1295503	0.24084617	2.5584458	20	4 30.9	17.5
10306 Pagnol	12.7	X	273.49660	85.53046	196.36579	8.05441	0.2051426	0.18689108	3.0297747	20	2 24.1	17.4
10307 1990 QX_1	14.6	X	84.35917	6.60239	49.77317	0.87795	0.2142443	0.27753292	2.3276966	20	1 30.1	16.8
10308 1990 QC_3	15.0	X	157.92827	228.16434	162.61148	3.47247	0.1891719	0.28275672	2.2989389	20	3 22.0	18.3
10309 1990 QC_6	14.8	X	84.73934	316.93248	92.34806	0.68452	0.1853466	0.27745992	2.3281049	20	1 15.1	16.8
10310 Delacroix	14.5	X	5.63443	329.68289	127.10571	3.31789	0.1138493	0.27535893	2.3399322	20	—	—
10311 Fantin–Latour	13.6	X	178.47410	162.95682	51.92822	2.71922	0.0120434	0.20397659	2.8581334	20	12 2.2	17.6
10312 1990 QT_9	14.3	X	84.70842	167.98939	117.23009	1.55527	0.1315377	0.30199780	2.2002238	20	12 7.7	17.2
10313 Vanessa–Mae	14.5	X	248.05089	71.48781	288.43173	4.66185	0.2117991	0.28941485	2.2635435	20	4 29.7	18.0
10314 1990 *RF*	12.0	X	18.15739	210.85386	174.30735	16.39000	0.0581521	0.17085255	3.2165360	20	12 15.3	16.7
10315 Brewster	13.8	X	337.40414	246.42359	190.06558	21.98206	0.2819717	0.26811415	2.3818966	20	—	—
10316 Williamturner	12.8	X	132.91529	294.14576	33.43820	5.70284	0.1555634	0.17603346	3.1531108	20	—	—
10317 1990 SA_{15}	13.9	X	177.53455	159.03380	252.22364	4.49986	0.1355811	0.28617001	2.2806219	20	5 2.8	17.2
10318 Sumaura	14.0	X	102.02847	299.11589	75.83954	4.46917	0.2653991	0.27507060	2.3415671	20	1 9.5	16.5
10319 Toshiharu	14.1	X	281.59232	302.07525	359.82745	7.79474	0.1434410	0.28604977	2.2812610	20	3 29.7	17.1
10320 Reiland	14.3	X	263.68442	126.90312	183.97519	6.34062	0.1338524	0.28488169	2.2874926	20	3 22.4	17.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
10321 Rampo	14.3	X	176.57498	278.96997	53.92324	6.05879	0.0947342	0.27726428	2.3291999	20	1 21.6	17.7
10322 Mayuminarita	14.6	X	59.52619	191.36676	200.28943	1.92640	0.2105199	0.27103172	2.3647722	20	—	—
10323 Frazer	14.2	X	273.36219	235.98057	88.74779	3.99786	0.1779530	0.28695039	2.2764852	20	4 17.9	17.2
10324 Vladimirov	14.8	X	301.26808	124.93396	293.23814	1.61672	0.1967575	0.26121157	2.4236753	20	10 17.5	16.9
10325 Bexa	13.9	X	304.70862	60.69405	110.03674	7.29381	0.1442167	0.27092111	2.3654157	20	—	—
10326 Kuragano	14.2	X	350.99924	280.68512	149.68396	2.65719	0.1806277	0.26655084	2.3912006	20	—	—
10327 Batens	15.0	X	152.78146	174.39235	175.98763	4.32292	0.1317149	0.27554099	2.3389013	20	1 19.4	18.3
10328 1991 GC_1	13.9	X	53.56641	222.67562	14.55687	13.81775	0.2048062	0.24384345	2.5374373	20	9 4.5	17.3
10329 1991 GJ_1	13.4	X	66.67926	97.91089	34.88641	13.77013	0.1370624	0.23800760	2.5787475	20	4 13.7	16.3
10330 Durkheim	13.9	X	133.50590	190.20708	254.42480	0.94804	0.1361774	0.24008029	2.5638840	20	5 2.7	17.5
10331 Peterbluhm	11.9	X	111.08374	232.74753	105.53115	4.63970	0.2256819	0.12349207	3.9937114	20	—	—
10332 Défi	13.1	X	13.22088	84.80678	179.93454	15.69127	0.1506722	0.24097929	2.5575035	20	7 19.3	16.1
10333 1991 NZ_6	13.1	X	225.25647	284.77328	117.67564	4.39653	0.1564253	0.20047493	2.8913189	20	6 8.9	17.7
10334 Gibbon	14.3	X	290.36984	130.62776	225.13890	0.96316	0.0717374	0.20170220	2.8795787	20	7 8.2	18.1
10335 1991 PG_9	13.7	X	62.28660	132.60460	182.94484	8.94557	0.1503088	0.21114857	2.7930409	20	12 6.6	17.9
10336 1991 PJ_{12}	13.3	X	89.94117	146.21734	262.62750	8.42874	0.1510621	0.18510209	3.0492650	20	2 1.1	17.4
10337 1991 RO_1	12.8	X	178.87853	33.63214	328.00903	6.01161	0.2170710	0.18922624	3.0047970	20	3 9.9	18.0
10338 1991 RB_{11}	13.2	X	52.68285	244.13143	158.12641	1.55047	0.1546983	0.17935244	3.1140902	20	—	—
10339 1991 RK_{17}	14.1	X	322.25270	206.38404	232.69038	0.87533	0.1021133	0.24392871	2.5368460	20	12 27.3	16.6
10340 Jostjahn	13.1	X	17.80533	261.72466	32.29707	2.34564	0.0414448	0.20174551	2.8791666	20	8 26.1	16.9
10341 1991 SC_2	13.4	X	287.46351	208.68089	121.10509	2.85761	0.0677085	0.19814463	2.9139438	20	5 31.4	17.2
10342 1991 TQ	13.3	X	230.49431	246.46534	68.01085	6.74232	0.1203515	0.18957725	3.0010869	20	3 4.9	18.0
10343 Church	13.7	X	93.85524	199.73652	149.46427	2.14785	0.1490933	0.17753479	3.1353094	20	—	—
10344 1992 CA_2	14.4	X	141.64261	329.29097	139.66655	4.27988	0.0536949	0.28886471	2.2664165	20	6 7.1	17.3
10345 1992 DC_{11}	15.4	X	64.84127	315.03627	152.26329	3.24130	0.1326667	0.28129443	2.3068993	20	2 25.5	17.5
10346 Triathlon	14.2	X	258.63423	29.42622	197.86381	24.24962	0.2058920	0.27203099	2.3589775	20	—	—
10347 Murom	14.0	X	147.01589	80.18264	215.82511	1.14899	0.2239333	0.26576619	2.3959048	20	—	—
10348 Poelchau	13.6	X	22.75300	208.28338	24.00152	8.20181	0.1400605	0.28456302	2.2892000	20	6 21.1	15.7
10349 1992 LN	13.7	X	249.09835	123.73720	88.62182	7.42717	0.0624047	0.26811157	2.3819118	20	—	—
10350 Spallanzani	13.2	X	94.99634	281.20840	130.35981	5.24492	0.1348297	0.22992945	2.6387991	20	2 4.7	16.4
10351 Seiichisato	12.6	X	184.44193	233.73060	46.08240	13.66432	0.1526176	0.22427760	2.6829471	20	—	—
10352 Kawamura	13.2	X	295.95321	296.11457	29.65381	12.46907	0.1865351	0.23813066	2.5778591	20	5 15.5	16.5
10353 Momotaro	12.6	X	173.39353	6.04490	77.88957	3.20676	0.0384683	0.19656707	2.9295137	20	6 10.4	16.6
10354 Guillaumebudé	13.4	X	285.65208	152.79484	319.45877	13.37235	0.0606581	0.17085034	3.2165637	20	11 22.4	18.0
10355 Kojiroharada	14.4	X	324.50949	156.62987	14.38467	7.17379	0.0467383	0.28532616	2.2851164	20	—	—
10356 Rudolfsteiner	14.2	X	333.73965	192.64071	221.65576	2.51873	0.1438329	0.22305294	2.6927586	20	12 8.4	16.8
10357 1993 SL_3	12.9	X	331.79475	285.52809	16.10241	23.97942	0.2191941	0.28756276	2.2732522	20	6 7.5	15.3
10358 Kirchhoff	13.9	X	184.56000	122.21063	141.82569	2.70782	0.1835710	0.26749325	2.3855810	20	—	—
10359 1993 TU_{36}	13.3	X	47.32267	242.40462	94.41299	10.47682	0.1756237	0.26136706	2.4227140	20	12 29.6	16.6
10360 1993 VN	14.4	X	102.92249	161.60937	174.84176	2.10193	0.2323635	0.26504691	2.4002375	20	—	—
10361 Bunsen	14.7	X	74.87601	286.75421	143.41096	3.63765	0.1224588	0.28401595	2.2921387	20	1 16.8	16.8
10362 1994 UC_2	15.1	X	122.81753	172.55485	246.67749	5.07101	0.1870182	0.28411945	2.2915820	20	3 19.5	18.3
10363 1994 UP_{11}	14.1	X	219.98963	314.35727	80.13046	3.36893	0.1762121	0.29296169	2.2452369	20	5 22.8	17.3
10364 Tainai	14.8	X	297.14474	82.91809	302.15511	1.76228	0.1019080	0.29883204	2.2157357	20	9 6.3	16.9
10365 Kurokawa	14.8	X	115.57628	272.92442	269.34794	3.33488	0.1007917	0.29355397	2.2422158	20	8 20.3	17.7
10366 Shozosato	14.3	X	196.60304	277.76252	162.35310	4.17358	0.1464617	0.29339145	2.2430438	20	7 1.0	17.5
10367 Sayo	14.7	X	69.01531	353.56638	54.70822	2.65648	0.1497414	0.27428446	2.3460391	20	—	—
10368 Kozuki	14.0	X	131.21883	332.47378	350.86831	9.95817	0.1203268	0.26646483	2.3917151	20	—	—
10369 Sinden	13.2	X	261.75760	329.83104	290.97938	28.46896	0.0396841	0.23377392	2.6097887	20	1 26.1	17.0
10370 Hylonome	8.6	X	70.80939	7.49797	178.19360	4.14243	0.2456008	0.00779584	25.1899608	20	7 6.6	22.5
10371 Gigli	16.0	X	270.70523	139.28180	31.19014	0.36000	0.1646702	0.26565671	2.3965630	20	—	—
10372 Moran	13.3	X	161.70545	316.39122	53.67527	6.36788	0.0400456	0.23270335	2.6177869	20	2 24.1	17.0
10373 MacRobert	15.1	X	77.35912	133.80155	175.14649	4.72667	0.1203178	0.30784788	2.1722607	20	12 30.7	18.1
10374 Etampes	13.7	X	58.67816	106.60051	199.01449	4.61882	0.2210953	0.30043480	2.2078483	20	12 15.1	17.0
10375 Michiokuga	16.1	X	275.06984	127.37701	351.73716	2.11868	0.1344616	0.26786712	2.3833607	20	12 6.8	18.6
10376 Chiarini	13.2	X	85.27628	279.01925	53.55606	13.53907	0.2523676	0.22478393	2.6789167	20	—	—
10377 Kilimanjaro	13.8	X	350.99905	230.99974	150.42541	1.85591	0.1609052	0.16964751	3.2317498	20	11 10.1	17.4
10378 Ingmarbergman	13.5	X	286.35762	53.48516	267.25494	1.17279	0.0276114	0.19808573	2.9145214	20	5 23.4	17.3
10379 Lake Placid	12.8	X	348.73194	60.81330	125.84313	6.49417	0.0240252	0.15060927	3.4986587	20	3 2.5	17.6
10380 Berwald	13.7	X	272.62210	280.09367	126.48219	2.91916	0.0507199	0.20596808	2.8396803	20	8 24.7	17.5
10381 Malinsmith	13.8	X	311.29493	2.05524	322.68973	8.01569	0.3139019	0.20208862	2.8759068	20	5 17.4	17.3
10382 Hadamard	13.9	X	128.26258	298.34779	9.46433	5.47059	0.1953228	0.26293406	2.4130787	20	—	—
10383 1996 SR_7	14.0	X	221.58896	357.92146	282.50169	2.51870	0.1848477	0.22643104	2.6659095	20	1 7.8	18.4
10384 1996 TQ_{10}	12.9	X	132.24786	216.61110	132.05185	10.17112	0.0776951	0.17967619	3.1103483	20	1 3.7	17.4
10385 Amaterasu	12.7	X	170.64265	301.32594	35.62433	13.50733	0.1893329	0.22394973	2.6855651	20	2 6.4	17.3
10386 Romulus	12.5	X	80.53910	288.93305	32.25565	23.00533	0.0820557	0.16822029	3.2500033	20	12 10.6	17.6
10387 Bepicolombo	13.5	X	168.19944	326.95124	0.75905	12.66488	0.1615532	0.22402043	2.6850000	20	1 21.0	18.0
10388 Zhuguangya	12.1	X	87.73701	267.78340	64.07393	16.99246	0.0836372	0.17085431	3.2165138	20	—	—
10389 Robmanning	13.9	X	240.19393	179.57194	178.63597	4.92840	0.2018418	0.28947642	2.2632225	20	4 23.5	17.2
10390 Lenka	15.1	X	22.20737	85.29317	322.20244	3.89689	0.0589499	0.31375799	2.1448957	20	—	—
10391 1997 RR_3	12.8	X	92.60114	283.54255	177.27613	13.71736	0.1294844	0.23797749	2.5789651	20	4 6.1	16.1
10392 Brace	14.0	X	76.84578	79.80038	264.51599	4.48571	0.1347865	0.26468656	2.4024155	20	—	—
10393 1997 RF_8	13.8	X	155.13348	285.62397	0.67084	13.04407	0.2464957	0.23059429	2.6337245	20	—	—
10394 1997 SG_1	13.2	X	324.75173	340.68400	160.85462	13.53372	0.1078581	0.22550166	2.6732294	20	—	—
10395 Jirkahorn	14.4	X	296.22687	232.34549	200.29024	2.71130	0.1191005	0.25796522	2.4439667	20	11 6.5	16.9
10396 1997 SW_{33}	13.1	X	6.86338	47.80234	37.56205	4.99113	0.1569317	0.17843704	3.1247316	20	—	—
10397 1997 SX_{33}	13.8	X	54.00491	6.54216	38.73541	0.94505	0.1955898	0.18100406	3.0951178	20	—	—
10398 1997 UP_8	14.0	X	75.83263	264.77799	72.33255	2.41430	0.1708431	0.30965317	2.1638095	20	—	—
10399 Nishiharima	13.7	X	120.63816	103.92005	217.62715	3.83463	0.0771821	0.26660881	2.3908540	20	—	—
10400 Hakkaisan	13.2	X	160.58310	340.13264	31.08524	8.67464	0.1407511	0.27773797	2.3265508	20	2 28.9	16.7

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
10401 1997 VD_3	14.0	X	12.46497	262.98098	154.11027	0.63346	0.0783814	0.21999434	2.7176595	20	—	—
10402 1997 VS_5	14.5	X	51.46010	10.30043	5.68925	2.12668	0.2052644	0.17739941	3.1369044	20	—	—
10403 Marcelgrün	14.0	X	148.92253	275.66138	241.54630	4.86116	0.0923218	0.29329135	2.2435541	20	8 22.9	17.2
10404 McCall	14.0	X	38.15798	299.57111	130.80480	2.58240	0.0919852	0.18131268	3.0916045	20	—	—
10405 Yoshiaki	14.7	X	52.13425	94.68745	254.35049	1.50052	0.1924619	0.26351996	2.4095006	20	—	—
10406 1997 WZ_{29}	12.8	X	9.49582	111.39425	257.30104	6.77117	0.2017397	0.17202155	3.2019470	20	11 29.9	16.5
10407 1997 WS_{32}	14.4	X	306.61099	218.13833	100.82225	4.33612	0.1511651	0.29013844	2.2597785	20	6 1.2	16.4
10408 1997 WL_{44}	13.7	X	97.61756	231.83514	173.26743	0.93238	0.1642921	0.18508660	3.0494351	20	2 10.6	18.0
10409 1997 WP_{44}	13.1	X	50.27126	309.35596	83.78044	2.75878	0.2060744	0.17880520	3.1204409	20	—	—
10410 Yangguanghua	12.5	X	105.01556	266.81708	36.13760	7.93171	0.1367610	0.17493090	3.1663460	20	12 24.4	17.6
10411 1997 XO_{11}	14.5	X	264.71439	44.63513	256.70729	6.10875	0.1322062	0.28205570	2.3027465	20	3 8.0	17.9
10412 Tsukuyomi	12.8	X	74.34564	67.99513	64.50316	11.20677	0.0585847	0.19130319	2.9830091	20	4 18.1	16.9
10413 Pansecchi	13.1	X	97.32397	115.93478	307.10061	9.00391	0.0861929	0.18591597	3.0403593	20	2 19.1	17.4
10414 1998 QJ_{37}	13.1	X	41.82667	57.49204	184.53144	9.21486	0.0445314	0.17441357	3.1726040	20	7 17.2	17.6
10415 Mali Lošinj	12.0	X	312.47134	297.78736	221.69685	14.42327	0.0249717	0.19061765	2.9901569	20	—	—
10416 Kottler	14.5	X	102.59694	251.37565	257.68158	20.32392	0.3971726	0.29318770	2.2440828	20	7 15.2	18.7
10417 1998 WA_{23}	13.2	X	187.53973	153.39701	47.65720	0.67224	0.1430149	0.17776802	3.1325664	20	11 11.5	18.1
10418 1998 WZ_{23}	13.0	X	34.75831	23.33717	17.22375	6.84088	0.0940062	0.26929280	2.3749413	20	—	—
10419 1998 XB_4	13.4	X	58.55079	154.74669	323.47862	5.00478	0.0810409	0.28737656	2.2742340	20	2 22.7	15.5
10420 1998 YB_{12}	12.8	X	307.99652	94.90575	70.85848	3.27535	0.1131962	0.18214488	3.0821805	20	—	—
10421 Dalmatin	14.0	X	14.76776	130.55451	207.46982	1.52890	0.2194430	0.26193250	2.4192261	20	11 26.8	16.7
10422 1999 AN_{22}	12.2	X	49.06323	203.71202	68.00401	17.90632	0.2085656	0.20447100	2.8535242	20	10 13.0	16.4
10423 Dajčić	14.0	X	37.06039	288.29753	312.35476	2.15161	0.1425074	0.29305333	2.2447687	20	8 3.7	16.1
10424 Gaillard	15.0	X	291.79328	201.81573	358.31462	2.26449	0.1142500	0.27380869	2.3487560	20	—	—
10425 Landfermann	14.4	X	42.40860	80.64167	152.36642	2.23289	0.0745571	0.24413293	2.5354310	20	7 16.1	17.4
10426 Charlierouse	12.1	X	49.78304	295.11241	118.32231	13.64437	0.1586503	0.23049130	2.6345090	20	—	—
10427 Klinkenberg	15.0	X	351.11279	55.95147	262.25057	2.25028	0.2182362	0.29527438	2.2334979	20	9 15.6	16.3
10428 Wanders	15.5	X	100.86122	253.94939	213.22623	2.84679	0.1841137	0.23959675	2.5673324	20	5 1.6	18.8
10429 van Woerden	13.8	X	61.83932	255.78977	185.73376	14.85330	0.0937506	0.23702737	2.5858523	20	1 16.1	17.1
10430 Martschmidt	13.4	X	55.52588	70.24815	292.09425	2.74280	0.0921703	0.21705627	2.7421287	20	—	—
10431 Pottasch	14.4	X	337.17526	230.12610	195.69012	4.89627	0.2062505	0.21570243	2.7535905	20	—	—
10432 Ullischwarz	15.0	X	97.59820	173.85463	13.92794	3.94373	0.0909786	0.29351825	2.2423977	20	8 7.8	17.9
10433 Ponsen	14.4	X	100.61779	248.32296	19.53346	6.84322	0.0750988	0.21555325	2.7548609	20	11 10.4	18.4
10434 Tinbergen	14.5	X	230.91681	343.39924	210.84730	1.49885	0.1520612	0.26720192	2.3873147	20	—	—
10435 Tjeerd	13.6	X	216.13372	275.96428	192.89059	10.67249	0.1873693	0.21198590	2.7856811	20	8 17.3	18.2
10436 Janwillempel	14.4	X	140.06466	291.61192	342.75933	3.87730	0.0509451	0.21745853	2.7387459	20	—	—
10437 van der Kruit	15.2	X	159.40408	120.44682	197.71936	1.78086	0.2251711	0.27026743	2.3692283	20	—	—
10438 Ludolph	14.5	X	115.60455	180.79213	18.91984	4.70194	0.0940331	0.29546426	2.2325408	20	9 16.2	17.5
10439 van Schooten	13.9	X	82.06542	130.04543	344.91325	1.12684	0.1131892	0.19039809	2.9924552	20	4 9.4	18.0
10440 van Swinden	15.4	X	21.53316	228.73582	56.15818	4.19416	0.1213466	0.29520120	2.2338670	20	9 14.3	17.6
10441 van Rijckevorsel	13.3	X	139.76918	194.81681	195.93724	13.62683	0.1896364	0.23872633	2.5735691	20	3 4.8	17.4
10442 Biezenzo	12.9	X	315.85890	294.10779	172.48598	10.76864	0.0254222	0.17368739	3.1814408	20	12 30.3	17.4
10443 van der Pol	14.0	X	232.18589	167.15444	199.56324	7.83955	0.1424180	0.28840362	2.2688315	20	5 1.4	17.1
10444 de Hevesy	13.1	X	295.41504	113.49199	31.32019	6.26617	0.0438319	0.17342011	3.1847089	20	—	—
10445 Coster	14.6	X	103.12386	150.70128	102.19661	3.79717	0.1533478	0.25378723	2.4707162	20	11 9.3	18.3
10446 Siegbahn	14.4	X	308.69225	350.39972	32.55830	6.71115	0.1145339	0.29729683	2.2233570	20	9 27.6	16.3
10447 Bloembergen	13.6	X	245.47846	26.85012	14.46126	2.10329	0.0478725	0.20159014	2.8806457	20	7 12.7	17.5
10448 Schawlow	13.2	X	45.27091	179.56477	118.83650	3.24833	0.0492181	0.20614963	2.8380128	20	10 11.0	16.9
10449 Takuma	13.1	X	209.02579	183.14186	161.95899	2.53841	0.3313184	0.18393911	3.0621044	20	3 13.5	18.7
10450 Girard	13.8	X	192.49150	298.92434	263.79534	7.93518	0.1948833	0.26883940	2.3776108	20	11 28.6	17.3
10451 1975 SE	12.6	X	47.83622	340.88329	8.69483	11.57863	0.0570785	0.22263022	2.6961661	20	12 20.7	16.5
10452 Zuev	13.6	X	314.89007	142.41472	197.35000	5.37513	0.2108339	0.28953444	2.2629202	20	7 11.4	15.3
10453 Banzan	13.2	X	276.39590	258.16242	36.40712	1.91927	0.1788027	0.18531221	3.0469595	20	3 18.9	17.7
10454 Vallenar	14.4	X	149.66659	75.07568	303.08155	5.92943	0.1232562	0.27545791	2.3393716	20	2 19.1	17.7
10455 Donnison	14.3	X	182.71622	186.07054	136.92398	6.11513	0.2209964	0.27177278	2.3604714	20	1 21.9	18.3
10456 Anechka	14.0	X	172.90743	85.23580	211.78736	2.04819	0.0419124	0.26848871	2.3796808	20	—	—
10457 Suminov	14.6	X	123.39049	329.01686	13.29863	2.38126	0.2283754	0.26774515	2.3840845	20	—	—
10458 Sfranke	14.8	X	270.91931	16.85456	238.06885	1.44422	0.1896213	0.27338877	2.3511604	20	1 13.8	18.2
10459 Vladichaika	14.4	X	102.84062	331.07077	31.28425	5.75766	0.2119127	0.26632717	2.3925392	20	—	—
10460 Correa–Otto	13.8	X	298.98995	320.90869	85.86882	2.21425	0.1571753	0.20854317	2.8162556	20	9 19.9	16.9
10461 Dawilliams	14.0	X	40.30586	148.98250	215.54996	6.93516	0.1449712	0.26121287	2.4236673	20	—	—
10462 Saxogrammaticus	15.3	X	94.40943	87.65345	150.41079	6.61625	0.2048616	0.29396235	2.2401387	20	10 23.8	18.8
10463 Bannister	13.5	X	41.61611	254.38973	170.76206	1.55524	0.1789556	0.17944471	3.1130226	20	—	—
10464 Jessie	14.2	X	340.04330	227.18158	33.56433	4.64919	0.1264254	0.28374210	2.2936133	20	5 6.1	16.2
10465 Olkin	12.4	X	48.04769	193.44113	229.66434	14.22535	0.1107260	0.17827346	3.1266427	20	—	—
10466 Marius–Ioan	14.9	X	84.64003	150.26265	294.20765	4.18829	0.0931429	0.27690393	2.3312202	20	2 18.7	17.5
10467 Peterbus	14.4	X	167.69146	116.18573	219.79669	5.69428	0.1523651	0.22346454	2.6894510	20	1 24.5	18.7
10468 Itacuruba	15.6	X	4.34799	246.36842	263.89035	3.46783	0.1882327	0.27556597	2.3387600	20	—	—
10469 Krohn	15.3	X	211.20757	86.76837	212.07859	6.35818	0.1100116	0.27356368	2.3501581	20	1 13.4	18.8
10470 Bartczak	15.1	X	188.33354	345.40872	348.75766	6.62028	0.1346644	0.27527341	2.3404168	20	2 7.3	18.6
10471 Marciniak	15.3	X	231.85673	67.59860	183.21779	2.45747	0.1439541	0.22136876	2.7063990	20	—	—
10472 Santana–Ros	14.9	X	257.48060	114.47637	168.91991	2.75845	0.2208131	0.27524024	2.3406048	20	2 2.8	18.5
10473 Thirouin	13.6	X	108.52427	132.39911	210.68161	2.11489	0.0934562	0.21999277	2.7176725	20	—	—
10474 Pecina	14.4	X	340.85558	109.22531	347.41406	4.06040	0.0621415	0.21988305	2.7185765	20	—	—
10475 Maxpoilâne	15.0	X	294.08659	321.79697	297.66443	6.31162	0.0955649	0.27704075	2.3304526	20	2 23.5	17.9
10476 Los Molinos	14.6	X	319.03945	38.73578	249.85824	9.44779	0.2589493	0.27949244	2.3168042	20	4 13.5	17.0
10477 Lacumparsita	15.0	X	175.10861	190.84620	173.25404	8.14797	0.1346327	0.27667302	2.3325171	20	2 29.4	18.5
10478 Alsabti	12.4	X	130.60993	46.29423	24.02156	11.06245	0.0952816	0.19022945	2.9942235	20	4 10.1	16.9
10479 Yiqunchen	13.3	X	43.07237	203.19737	58.47170	7.72155	0.1807513	0.29039693	2.2584373	20	9 25.7	16.0
10480 Jennyblue	14.6	X	196.61117	334.38208	106.32052	2.69344	0.0826172	0.28829216	2.2694163	20	7 5.5	17.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
10481 Esipov	14.6	X	173.89834	23.66409	326.38297	2.48025	0.1865201	0.27411826	2.3469873	20	2 14.6	18.2
10482 Dangrieser	14.4	X	196.79371	297.11752	70.01502	6.34022	0.2019826	0.28382273	2.2931789	20	3 29.6	18.2
10483 Tomburns	14.0	X	237.63707	223.35586	150.49109	4.16379	0.1713666	0.28792330	2.2713541	20	5 14.7	17.3
10484 Hecht	13.9	X	104.69830	189.92047	253.24292	5.73283	0.0792318	0.27891340	2.3200097	20	3 12.9	16.7
10485 1984 SY_5	13.1	X	13.42590	260.46150	116.54087	2.38667	0.1416688	0.16797578	3.2531564	20	12 7.7	17.1
10486 1985 CS_2	14.2	X	0.06303	295.88406	295.08259	3.99256	0.0920824	0.28398777	2.2922903	20	4 28.9	16.5
10487 Danpeterson	12.7	X	285.05671	202.84397	98.35422	24.89988	0.1701402	0.28021427	2.3128238	20	4 14.9	16.4
10488 1985 RS_1	13.8	X	128.25638	312.56891	26.36066	2.67928	0.2172007	0.26470255	2.4023187	20	—	—
10489 Keinonen	12.3	X	271.07740	295.06654	26.07221	10.90701	0.0892966	0.18933799	3.0036146	20	4 24.5	16.5
10490 1985 VL	12.5	X	279.35913	323.87418	209.14902	14.48142	0.0247638	0.17441371	3.1726023	20	—	—
10491 1986 QS_1	14.3	X	179.63404	230.42211	133.65699	5.58485	0.1500335	0.27939627	2.3173359	20	3 7.6	17.8
10492 1986 QZ_1	12.7	X	64.01227	267.68636	148.47933	10.65602	0.0678387	0.18701558	3.0284299	20	—	—
10493 1986 QH_2	14.0	X	167.78510	307.45314	129.35609	7.25465	0.0644201	0.28445172	2.2897971	20	5 27.6	17.2
10494 1986 QO_3	14.6	X	16.94876	332.97173	53.71920	3.42028	0.2238623	0.26661924	2.3907916	20	—	—
10495 1986 RD	13.5	X	100.37254	103.21664	212.20458	6.87291	0.2253649	0.21093660	2.7949117	20	—	—
10496 1986 RK	13.7	X	289.64442	88.75845	235.51823	7.57065	0.2029166	0.28521227	2.2857246	20	5 2.1	16.3
10497 1986 RQ	13.8	X	239.88537	113.92186	210.65311	9.31897	0.1866760	0.28081630	2.3095170	20	3 8.6	17.6
10498 Bobgent	14.6	X	288.77591	152.50668	163.54174	7.96439	0.2597703	0.28513556	2.2861346	20	4 13.5	17.6
10499 1986 RN_5	14.6	X	267.62988	343.78932	359.31840	6.48566	0.2244404	0.28506957	2.2864874	20	4 26.2	17.9
10500 Nishi–koen	12.8	X	167.60664	168.67923	49.43404	11.09218	0.1988536	0.22459019	2.6804571	20	11 17.7	17.1
10501 Ardmacha	13.7	X	130.51771	121.21665	172.82958	8.68721	0.2620534	0.21967103	2.7203254	20	—	—
10502 Armaghobs	14.9	X	66.92738	263.26911	170.19236	21.92735	0.3189339	0.28105761	2.3081949	20	2 4.6	16.7
10503 1987 SG_{13}	14.1	X	273.15529	28.48612	22.22954	4.71617	0.1138810	0.29762979	2.2216985	20	9 4.4	16.3
10504 Doga	13.2	X	51.94660	319.80974	55.04585	5.74357	0.1633443	0.21459330	2.7630704	20	—	—
10505 1988 BN_4	12.5	X	56.74256	217.83526	273.34551	8.64439	0.0336720	0.18822057	3.0154907	20	3 12.1	16.7
10506 Rydberg	13.5	X	137.16127	206.30668	249.43504	6.93517	0.0474621	0.19039384	2.9924997	20	5 13.5	17.8
10507 1988 ER_1	13.5	X	259.34748	240.87865	27.10051	7.14296	0.0946390	0.27359383	2.3499855	20	1 29.3	16.9
10508 1988 RM_4	14.5	X	75.29986	114.94415	176.42741	2.64702	0.1882361	0.25212228	2.4815816	20	12 1.7	18.2
10509 Heinrichkayser	12.9	X	25.44385	242.25787	194.81197	4.90287	0.1929680	0.18443171	3.0566496	20	—	—
10510 Maxschreier	14.8	X	121.03375	41.21384	187.40771	4.89420	0.0932975	0.29762790	2.2217079	20	10 31.6	17.7
10511 1989 OD	12.7	X	212.09532	288.87724	358.37866	8.81495	0.1346429	0.21235330	2.7824671	20	1 11.5	17.3
10512 Yamandu	13.8	X	77.86907	145.55245	190.52983	3.61092	0.1584508	0.26190782	2.4193781	20	—	—
10513 1989 TJ_{14}	11.7	X	102.52165	193.57180	172.42960	24.35743	0.0696078	0.17072778	3.2181029	20	—	—
10514 1989 TD_{16}	13.1	X	327.26053	5.10791	348.15344	2.94917	0.0971380	0.22083759	2.7107370	20	8 31.8	16.0
10515 Old Joe	13.9	X	128.08627	19.93708	61.14973	5.41128	0.2564359	0.23896228	2.5718748	20	5 4.6	18.0
10516 Sakurajima	13.8	X	70.69899	291.38511	64.92720	2.66158	0.2202692	0.26191629	2.4193259	20	—	—
10517 1990 BH_1	13.4	X	7.74471	87.79636	70.79324	5.61928	0.1560807	0.23025672	2.6362981	20	2 2.9	16.1
10518 1990 MC	12.8	X	20.40948	115.31434	193.17394	13.69402	0.3199544	0.20165293	2.8800477	20	10 29.3	16.1
10519 1990 RO_2	14.7	X	82.76111	329.13107	309.18795	3.76650	0.1264681	0.30063798	2.2068534	20	11 25.0	17.8
10520 1990 RS_2	14.5	X	278.00074	95.37613	293.28169	2.00758	0.1452083	0.29294091	2.2453430	20	7 31.6	16.6
10521 1990 RW_7	13.6	X	59.10675	230.41305	164.32775	3.61586	0.1888188	0.17544311	3.1601801	20	—	—
10522 1990 SN_3	14.0	X	70.57578	281.87612	34.60088	5.19066	0.2135519	0.30213715	2.1995473	20	—	—
10523 D′Haveloose	13.2	X	139.32392	71.88710	30.97776	4.38833	0.0647058	0.28682927	2.2771260	20	5 25.9	16.1
10524 Maniewski	13.8	X	170.22181	100.08940	40.43495	6.53946	0.1058660	0.29349784	2.2425017	20	8 30.1	17.0
10525 1990 TO	14.1	X	241.93901	288.03887	69.74323	5.63411	0.1905714	0.28703893	2.2760171	20	4 26.2	17.5
10526 Ginkogino	14.6	X	284.00315	114.56457	254.45700	4.23082	0.1713037	0.29098910	2.2553723	20	7 5.8	17.0
10527 1990 UN_1	14.2	X	28.86850	265.63653	167.74811	5.09100	0.2103549	0.27115677	2.3640450	20	—	—
10528 1990 VX_3	14.1	X	25.25718	109.87392	38.62623	3.17758	0.1792423	0.27626078	2.3348370	20	2 12.1	15.7
10529 Giessenburg	14.4	X	2.27686	177.91543	130.67756	3.69598	0.2035276	0.29184563	2.2509573	20	9 27.1	16.1
10530 1991 EA	13.7	X	225.79338	151.73697	350.06694	6.28689	0.0782731	0.25528687	2.4610309	20	10 28.7	16.9
10531 1991 GB_1	14.8	X	173.48789	221.90296	24.03163	20.98367	0.0437252	0.35866709	1.9618917	20	—	—
10532 1991 NA_2	13.8	X	308.88747	112.85507	128.44246	9.01004	0.1547072	0.22888291	2.6468367	20	2 19.7	17.3
10533 1991 PT_{12}	13.7	X	40.76603	298.49966	58.29837	0.87469	0.0826741	0.21150725	2.7898823	20	12 22.1	17.5
10534 1991 PV_{16}	13.3	X	237.18197	288.78610	96.40843	3.05111	0.1266725	0.19685435	2.9266629	20	6 2.1	17.6
10535 1991 RB_1	13.3	X	33.54470	98.28669	252.89015	6.19734	0.1687093	0.20876625	2.8142490	20	12 17.7	16.9
10536 1991 RZ_8	13.0	X	70.37659	281.69668	349.51363	1.37833	0.0290023	0.20415562	2.8564622	20	10 3.3	16.9
10537 1991 RY_{16}	12.5	X	115.94890	163.90108	62.48191	7.26133	0.0714344	0.20517018	2.8470377	20	10 9.5	16.7
10538 Torode	15.7	X	1.91227	348.00318	71.70838	0.29116	0.1519264	0.31154709	2.1550313	20	—	—
10539 1991 VH_4	13.4	X	231.41128	261.25671	100.33639	5.97482	0.1326512	0.19104464	2.9856999	20	4 29.4	18.1
10540 Hachigoroh	13.2	X	75.55180	309.54907	110.64431	6.73551	0.1695651	0.18037609	3.1022972	20	2 2.3	17.0
10541 Malesherbes	14.3	X	149.96642	266.23913	134.60392	5.79364	0.1604225	0.28744857	2.2738542	20	3 26.3	17.6
10542 Ruckers	14.4	X	152.99940	332.73987	213.72897	3.29974	0.0854967	0.29808354	2.2194433	20	10 9.6	17.2
10543 Klee	14.5	X	209.28952	7.12795	8.92797	6.64914	0.1762095	0.28853687	2.2681329	20	4 16.7	18.1
10544 Hörsnebara	14.3	X	50.49849	298.66176	9.47550	7.75010	0.1771842	0.29679753	2.2258498	20	12 2.7	17.4
10545 Källunge	14.6	X	228.29811	243.68016	193.86270	2.58059	0.1196491	0.29461285	2.2368400	20	8 4.9	17.5
10546 Nakanomakoto	14.0	X	40.81527	173.00691	104.55325	7.15134	0.1738159	0.28977324	2.2616767	20	10 13.8	16.7
10547 Yosakoi	13.8	X	343.45945	235.52583	56.16443	4.68560	0.2170214	0.28364943	2.2941128	20	7 1.3	14.9
10548 1992 PJ_2	14.5	X	162.52594	83.51072	211.60752	5.60085	0.3224085	0.26312639	2.4119027	20	—	—
10549 Helsingborg	14.1	X	286.60610	349.04262	340.45164	13.71175	0.1710591	0.24079965	2.5587753	20	5 6.4	17.8
10550 Malmö	13.9	X	309.98128	107.99826	112.20128	4.62519	0.0332544	0.23127900	2.6285238	20	2 11.3	17.2
10551 Göteborg	12.1	X	102.50336	8.02833	93.06183	11.38290	0.0624542	0.19045119	2.9918990	20	4 16.6	16.5
10552 Stockholm	13.8	X	354.54740	350.80919	125.21802	2.24398	0.2031663	0.17892733	3.1190207	20	—	—
10553 Stenkumla	14.0	X	123.11719	203.29424	122.42348	2.58645	0.1317565	0.17020362	3.2247065	20	—	—
10554 Västerhejde	13.4	X	209.49956	97.13015	172.74117	7.41498	0.1504876	0.17163689	3.2067292	20	—	—
10555 Tagaharue	12.4	X	279.99287	143.83722	37.47564	16.80970	0.0696643	0.17158986	3.2073151	20	—	—
10556 1993 QS	14.2	X	351.41486	176.68811	163.80249	13.31962	0.2557702	0.25759315	2.4463195	20	10 25.2	16.2
10557 Rowland	14.4	X	140.41936	71.78505	307.11792	2.59259	0.0620809	0.27435678	2.3456268	20	2 3.1	17.2
10558 Karlstad	14.5	X	195.20767	124.46759	190.44280	5.63987	0.1298298	0.27461854	2.3441361	20	1 18.0	18.1
10559 Yukihisa	14.7	X	345.04423	141.68248	171.83770	5.65651	0.2076351	0.29021733	2.2593689	20	8 17.8	16.0
10560 Michinari	13.4	X	163.58346	253.59214	88.61760	3.58759	0.1273547	0.27297101	2.3535587	20	1 21.9	16.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
10561 Shimizumasahiro	13.2	X	342.04409	314.81992	19.09775	9.91063	0.1648397	0.21551492	2.7551875	20	9 2.9	16.0
10562 1993 UB_1	13.0	X	203.10109	356.70907	8.36907	23.22150	0.1553516	0.27819546	2.3239995	20	3 29.6	16.6
10563 Izhdubar	16.8	X	345.88847	132.20422	56.56381	63.46246	0.2662971	0.97551468	1.0068857	20	—	—
10564 1993 XQ_2	12.9	X	49.08160	314.26470	128.19243	13.55176	0.1451343	0.22742200	2.6581597	20	1 4.6	15.7
10565 1994 AT_1	12.6	X	114.02661	329.39179	55.44201	13.75356	0.2272228	0.22824282	2.6517829	20	2 13.9	16.7
10566 Zabadak	13.3	X	339.01215	212.63389	289.86242	10.99413	0.2084190	0.22342282	2.6897858	20	—	—
10567 Francobressan	14.3	X	142.71103	224.41979	183.58246	3.76558	0.1906522	0.23653984	2.5894042	20	3 31.9	18.5
10568 Yoshitanaka	13.2	X	44.38207	117.17332	298.43577	11.56215	0.1831160	0.22301801	2.6930397	20	—	—
10569 Kinoshitamasao	13.0	X	133.35338	111.78098	40.89616	13.51568	0.0923118	0.19777960	2.9175281	20	7 29.6	17.7
10570 Shibayasuo	13.2	X	358.73313	109.60600	71.42174	3.41868	0.1726806	0.18633927	3.0357532	20	2 24.4	16.5
10571 1994 LA_1	14.2	X	230.80477	108.78352	140.83887	25.97373	0.2469400	0.17512866	3.1639618	20	—	—
10572 Kominejo	14.5	X	307.72222	221.84943	224.61968	2.15962	0.0683779	0.30683032	2.1770607	20	—	—
10573 Piani	14.6	X	5.66520	124.17735	172.63811	14.86436	0.1586750	0.25742710	2.4473714	20	8 27.7	17.0
10574 1994 YH_1	15.0	X	275.23751	181.77773	267.92638	3.04458	0.0254344	0.30198686	2.2002770	20	11 16.2	17.5
10575 1994 YV_1	14.1	X	87.45972	48.34147	74.76673	7.36404	0.0455513	0.28264786	2.2995291	20	4 14.9	16.8
10576 1995 GF	13.5	X	148.00897	46.14753	66.93162	6.66467	0.0802915	0.24197151	2.5505072	20	6 21.0	17.1
10577 Jihčesmuzeum	14.5	X	357.16369	210.28121	46.12052	4.44093	0.2279432	0.23755669	2.5820097	20	6 2.9	16.3
10578 1995 LH	14.3	X	220.43972	267.74574	48.47506	11.43200	0.4087840	0.22294868	2.6935980	20	2 18.2	19.8
10579 Diluca	12.5	X	66.02531	210.41110	255.43969	8.89242	0.0603815	0.18414697	3.0597997	20	2 25.6	16.8
10580 1995 OV	13.7	X	197.87677	298.71906	345.78520	7.77050	0.2451711	0.21864601	2.7288208	20	—	—
10581 Jeníkhollan	14.1	X	86.64078	4.88451	154.24141	12.24889	0.0800605	0.18870409	3.0103373	20	6 8.5	18.5
10582 Harumi	12.7	X	196.21539	301.56218	60.28899	12.17351	0.1818940	0.18107178	3.0943460	20	3 30.9	18.0
10583 Kanetugu	12.0	X	228.29092	274.21255	61.67683	14.68009	0.2268669	0.17976980	3.1092685	20	3 26.9	17.5
10584 Ferrini	15.7	X	140.58116	87.91671	184.56307	4.28474	0.2092698	0.26656962	2.3910883	20	—	—
10585 Wabi–Sabi	15.1	X	73.70702	87.81287	177.83972	3.31541	0.0886625	0.29920577	2.2138902	20	10 26.0	17.9
10586 Jansteen	14.2	X	152.09376	279.95051	81.43523	3.79287	0.2590907	0.27514223	2.3411606	20	2 15.9	17.9
10587 Strindberg	13.0	X	24.70931	299.27566	142.25171	10.07843	0.0751658	0.22282706	2.6945780	20	—	—
10588 Adamcrandall	16.0	X	142.78015	244.60474	57.12006	2.62105	0.0495444	0.26365965	2.4086495	20	—	—
10589 1996 OM_2	13.8	X	36.84222	128.06450	260.10799	7.96473	0.2253529	0.21780889	2.7358082	20	—	—
10590 1996 OP_2	14.2	X	135.63706	152.96704	175.44095	13.53902	0.2425284	0.26472546	2.4021802	20	—	—
10591 Caverni	14.3	X	152.85510	312.47529	83.64997	3.94558	0.0153854	0.23186251	2.6241120	20	3 14.3	17.8
10592 1996 PN_5	13.9	X	51.89808	274.02065	80.53602	2.60556	0.1013171	0.21639464	2.7477152	20	—	—
10593 Susannesandra	13.0	X	84.42529	276.73829	108.34766	2.13666	0.2133808	0.17895011	3.1187561	20	1 8.5	17.0
10594 1996 RE_4	13.0	X	266.80526	307.50019	26.20889	12.75661	0.1729390	0.23449309	2.6044500	20	4 22.5	16.6
10595 1996 SS_6	13.2	X	341.68287	250.56294	67.24362	3.05083	0.0582157	0.19795419	2.9158124	20	8 4.9	16.9
10596 Stevensimpson	13.8	X	55.49372	76.55885	207.67006	1.54915	0.0212584	0.20514275	2.8472915	20	9 29.9	17.5
10597 1996 TR_{10}	13.1	X	180.29067	144.48406	160.17997	10.62423	0.2565694	0.26581355	2.3956202	20	—	—
10598 Markrees	14.5	X	237.13094	151.23594	198.73738	1.59208	0.1551391	0.23390996	2.6087767	20	4 14.9	18.4
10599 1996 TK_{15}	14.1	X	246.42846	134.48612	195.38157	13.44689	0.1903788	0.23300367	2.6155370	20	3 26.2	18.2
10600 1996 TK_{48}	14.2	X	288.08743	188.23459	144.82468	2.56999	0.2294615	0.23837314	2.5761106	20	5 11.2	17.4
10601 Hiwatashi	13.2	X	78.92469	279.56584	91.41755	2.99239	0.2540614	0.17686943	3.1431676	20	—	—
10602 Masakazu	12.7	X	203.26285	288.20465	27.30085	13.34030	0.1989911	0.22572587	2.6714589	20	2 8.3	17.4
10603 1996 UF_4	13.9	X	21.19615	315.75754	44.45174	4.66429	0.1076545	0.20875750	2.8143276	20	12 3.3	17.5
10604 Susanoo	13.3	X	48.40326	358.17758	50.76669	11.12588	0.1154538	0.17428845	3.1741222	20	—	—
10605 Guidoni	13.4	X	267.01805	96.35089	270.38475	0.94516	0.1134803	0.19457056	2.9495197	20	6 14.6	17.5
10606 Crocco	13.4	X	170.95096	263.06035	40.98718	17.64932	0.1005147	0.17655346	3.1469166	20	—	—
10607 Amandahatton	13.4	X	255.77984	231.49965	71.01156	13.81016	0.1855859	0.22838448	2.6506862	20	3 10.5	17.8
10608 Mameta	11.8	X	338.34740	258.18299	159.93622	4.52219	0.2549689	0.12364054	3.9905135	20	11 20.9	15.9
10609 Hirai	14.8	X	149.29634	147.80500	199.22993	10.48825	0.2004662	0.22238819	2.6981219	20	1 23.7	19.2
10610 1996 XR_1	12.2	X	55.20197	283.25977	87.47018	4.63314	0.2189821	0.12509063	3.9596140	20	—	—
10611 Yanjici	12.0	X	198.48550	355.79572	253.88334	11.44922	0.0780785	0.17267742	3.1938341	20	—	—
10612 Houffalize	13.2	X	162.35933	132.52763	161.33838	2.32222	0.0102219	0.19687212	2.9264868	20	—	—
10613 Kushinadahime	14.1	X	24.26006	208.90048	166.23966	5.15479	0.1118733	0.26455458	2.4032144	20	—	—
10614 1997 UH_1	13.8	X	59.21939	24.83281	41.76087	7.42362	0.0850847	0.27195703	2.3594051	20	—	—
10615 1997 UK_3	14.2	X	48.47402	180.92899	228.69064	4.20272	0.2539581	0.26826374	2.3810110	20	—	—
10616 Inouetakeshi	14.6	X	183.13124	149.70373	157.17116	2.87677	0.1880826	0.23136441	2.6278769	20	1 6.3	18.9
10617 Takumi	13.4	X	358.24812	67.47617	300.87617	4.54417	0.0889651	0.30149118	2.2026879	20	12 3.2	15.7
10618 1997 VU_3	14.7	X	110.57796	208.49670	191.40471	2.74434	0.1906439	0.27437639	2.3455151	20	2 11.1	17.5
10619 Ninigi	14.0	X	309.00546	113.88121	85.92242	7.87125	0.0600755	0.27195910	2.3593932	20	1 2.6	16.8
10620 1997 WQ_{34}	14.2	X	101.40102	236.52881	88.08837	6.19474	0.1068917	0.26502358	2.4003784	20	—	—
10621 1997 XN	13.9	X	12.73740	91.40605	294.09188	7.07251	0.0207997	0.21263573	2.7800027	20	12 13.9	17.7
10622 1997 XA_{12}	15.0	X	319.15679	331.77249	26.89521	4.26783	0.1802345	0.29559874	2.2318637	20	9 4.4	16.4
10623 1997 YP_7	12.8	X	160.45138	286.42631	43.67588	5.75376	0.1474708	0.17611472	3.1521409	20	1 19.2	17.9
10624 1997 YR_{13}	13.0	X	47.31418	176.89134	209.61287	0.13041	0.1394575	0.17186608	3.2038777	20	—	—
10625 1998 AC_8	13.0	X	357.55767	231.76228	199.24333	0.51156	0.1654053	0.17368060	3.1815238	20	—	—
10626 Zajíc	14.5	X	120.70467	328.26841	164.10530	2.28918	0.2481881	0.24020130	2.5630229	20	6 30.4	18.6
10627 Ookuninushi	13.0	X	177.26866	268.71241	108.59378	8.57674	0.1166023	0.18667957	3.0320628	20	3 29.9	17.9
10628 Feuerbacher	13.0	X	248.72733	120.69011	148.63509	5.82301	0.1184889	0.17911294	3.1168656	20	1 27.1	17.8
10629 1998 BK_{11}	13.8	X	61.28012	1.03464	357.94326	0.64796	0.1074083	0.21544438	2.7557889	20	—	—
10630 1998 BV_{12}	13.3	X	29.54543	324.77251	337.62976	1.29207	0.0644338	0.20280292	2.8691500	20	9 24.4	17.0
10631 1998 BM_{15}	12.8	X	171.47743	55.20090	258.97487	2.66262	0.0411212	0.17578057	3.1561342	20	1 3.2	17.3
10632 1998 CV_1	12.2	X	23.29186	294.18886	111.17059	8.39872	0.2042514	0.12647271	3.9307145	20	—	—
10633 Akimasa	14.0	X	295.96737	344.16596	122.77117	7.24597	0.0930979	0.25613456	2.4555979	20	12 25.9	16.7
10634 Pepibican	13.3	X	39.26221	143.16702	197.70144	4.89152	0.0153055	0.25091821	2.4895142	20	11 30.5	16.5
10635 1998 QH_8	13.8	X	25.99463	165.32134	165.55267	12.34417	0.1175827	0.18553589	3.0445101	20	11 2.5	17.9
10636 1998 QK_{56}	17.7	X	109.81135	286.17440	173.04646	13.56228	0.5136126	0.38108770	1.8841671	20	6 3.1	21.3
10637 Heimlich	12.5	X	151.55112	123.75182	24.24091	13.67084	0.0221309	0.17366387	3.1817281	20	8 9.6	17.3
10638 McGlothlin	12.8	X	63.25736	69.12592	167.46408	6.28946	0.1493644	0.17611691	3.1521146	20	8 24.5	17.2
10639 Gleason	14.3	X	76.60075	4.48846	249.26260	2.75783	0.1567977	0.30286803	2.1960072	20	10 20.0	17.2
10640 1998 WU_{19}	13.9	X	201.85308	285.63430	164.81118	3.62881	0.1446985	0.29695192	2.2250783	20	7 20.8	17.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
10641 1998 XS_{52}	13.3	X	298.99567	53.24650	34.88262	1.18528	0.1502586	0.17552878	3.1591518	20	11 6.2	17.2
10642 Charmaine	13.1	X	3.04854	63.51530	65.63989	2.34012	0.0770658	0.18279890	3.0748245	20	1 2.2	16.9
10643 1999 CE_{78}	13.4	X	10.50768	11.44698	220.80072	4.75235	0.0927702	0.24182697	2.5515234	20	5 24.2	16.0
10644 1999 DM_2	12.2	X	228.31857	351.93224	60.04486	14.90487	0.1703088	0.20259193	2.8711417	20	6 21.4	16.8
10645 Brač	12.5	X	92.49532	44.97488	351.54326	12.52044	0.1831890	0.22748858	2.6576410	20	1 24.3	15.9
10646 Machielalberts	13.9	X	350.08054	280.61630	339.94175	3.37754	0.1345844	0.29244797	2.2478655	20	5 25.9	15.7
10647 Meesters	13.3	X	55.99370	318.73270	226.47676	9.45017	0.0441311	0.19226983	2.9730026	20	5 25.8	17.3
10648 Plancius	14.0	X	90.93874	163.11088	204.23570	8.62743	0.1796205	0.21886739	2.7269803	20	—	—
10649 VOC	14.5	X	155.81851	248.47525	208.17964	8.34424	0.1225787	0.20878175	2.8141097	20	6 10.1	18.9
10650 Houtman	15.4	X	5.62871	119.58700	196.42041	3.02484	0.1166464	0.29573839	2.2311610	20	9 30.7	17.3
10651 van Linschoten	14.2	X	83.48739	344.08273	5.96814	5.13746	0.0686367	0.21785968	2.7353830	20	—	—
10652 Blaeu	14.3	X	45.44416	33.66467	12.32685	5.57201	0.0995133	0.21837298	2.7310949	20	—	—
10653 Witsen	12.4	X	93.43619	287.81183	181.21449	3.31296	0.0126696	0.14171128	3.6436202	20	4 6.1	17.5
10654 Bontekoe	12.7	X	0.80056	238.98215	169.95881	21.96580	0.0282284	0.16753317	3.2588836	20	12 18.1	17.6
10655 Pietkeyser	14.2	X	51.48959	200.76948	167.68505	6.37502	0.0688716	0.21747764	2.7385855	20	—	—
10656 Albrecht	12.8	X	125.75614	317.71876	5.18468	8.52140	0.0850730	0.17408684	3.1765724	20	—	—
10657 Wanach	14.6	X	240.55101	110.62541	16.32021	3.60614	0.0423897	0.21099026	2.7944378	20	10 26.9	18.5
10658 Gretadevries	13.5	X	344.70907	236.33541	163.29464	4.69866	0.0761287	0.21193148	2.7861580	20	11 29.6	16.9
10659 Sauerland	14.0	X	281.98946	172.66023	3.80054	0.82998	0.1208131	0.17539967	3.1607019	20	—	—
10660 Felixhormuth	14.0	X	291.68144	122.27999	40.52861	6.86852	0.1438485	0.17564317	3.1577800	20	—	—
10661 Teutoburgerwald	15.4	X	105.13318	166.31791	348.01038	6.65436	0.1013796	0.28892098	2.2661222	20	6 30.5	18.4
10662 Peterwisse	13.6	X	92.36673	192.49999	130.22546	4.18073	0.0963831	0.21462352	2.7628110	20	—	—
10663 Schwarzwald	13.8	X	319.00609	9.17026	111.11838	2.49681	0.1633441	0.17272888	3.1931997	20	—	—
10664 Phemios	11.3	X	264.68261	233.61727	240.12273	8.57648	0.0303472	0.08335372	5.1902234	20	10 18.3	18.2
10665 Ortigão	13.4	X	83.57929	130.09423	190.90092	8.67812	0.1557570	0.21043715	2.7993322	20	—	—
10666 Feldberg	13.9	X	228.50071	52.64701	58.82907	5.91777	0.0579618	0.29760733	2.2218103	20	10 6.8	16.6
10667 van Marxveldt	15.2	X	48.36813	205.66036	224.17016	20.27854	0.0878776	0.35803590	1.9641968	20	—	—
10668 Plansos	13.4	X	31.00160	30.57282	151.51186	13.00517	0.1717159	0.23193954	2.6235310	20	4 28.9	16.2
10669 Herfordia	13.2	X	251.85295	354.61599	266.65366	12.32352	0.1338398	0.22512492	2.6762109	20	1 12.6	17.3
10670 Seminozhenko	13.3	X	113.47343	165.31876	198.67597	5.03978	0.1043629	0.21618356	2.7495035	20	—	—
10671 Mazurova	13.9	X	85.21974	12.87272	355.25644	4.71032	0.1717275	0.25932118	2.4354398	20	—	—
10672 Kostyukova	11.7	X	309.26392	61.70927	283.36765	15.01182	0.1179194	0.18640566	3.0350323	20	7 13.9	15.4
10673 Berezhnoy	14.3	X	64.72328	170.44102	194.17564	2.09274	0.0379679	0.26153869	2.4216539	20	—	—
10674 de Elia	14.9	X	177.75871	91.82756	237.90980	1.75678	0.1309099	0.26730697	2.3866892	20	1 21.0	18.5
10675 Kharlamov	14.2	X	118.95531	321.61204	74.00135	3.17897	0.2073611	0.26839752	2.3802197	20	2 21.3	17.3
10676 Jamesmcdanell	14.6	X	139.48931	248.48743	186.05514	3.38413	0.1820223	0.28298154	2.2977211	20	4 29.5	18.0
10677 Colucci	14.2	X	121.56166	266.26904	235.29494	1.97990	0.0675990	0.28722550	2.2750314	20	6 28.4	17.1
10678 Alilagoa	15.0	X	349.85220	43.07607	254.63459	5.84265	0.1374786	0.28856517	2.2679847	20	7 28.1	16.9
10679 Chankaochang	13.8	X	137.16472	357.56210	119.97573	11.29288	0.0434727	0.18975051	2.9992598	20	6 11.9	18.2
10680 Ermakov	15.0	X	139.81492	281.54584	193.24059	3.92429	0.1354008	0.28622024	2.2803551	20	6 18.9	18.4
10681 Khture	13.2	X	57.52324	47.98693	25.19201	1.14217	0.1717778	0.17669724	3.1452092	20	1 22.3	16.7
10682 1980 KK	14.2	X	202.29735	143.43392	135.58316	1.01039	0.1700518	0.31138156	2.1557950	20	—	—
10683 Carter	14.3	X	180.58826	174.77411	101.25263	4.52790	0.1574697	0.30908132	2.1664776	20	—	—
10684 Babkina	14.9	X	31.36249	12.02654	339.16358	2.68742	0.1878258	0.29970133	2.2114490	20	—	—
10685 Kharkivuniver	13.5	X	261.92156	347.89193	38.45743	9.90606	0.3193690	0.24163236	2.5528933	20	6 6.4	17.6
10686 Kaluna	13.3	X	168.74691	286.61592	225.20347	24.84465	0.0640580	0.24319259	2.5419626	20	8 26.9	17.6
10687 1980 XX	14.8	X	320.28288	308.44754	87.35115	5.21150	0.1452594	0.29500994	2.2348324	20	11 10.7	16.4
10688 Haghighipour	12.6	X	132.86010	117.32981	280.82086	9.58718	0.1779148	0.17670680	3.1450958	20	3 8.6	17.7
10689 Pinillaalonso	13.1	X	322.07088	297.36322	206.14524	21.97403	0.0751682	0.17083667	3.2167352	20	—	—
10690 Massera	13.5	X	179.62755	29.27994	288.86059	6.10487	0.1219935	0.17179940	3.2047067	20	1 20.5	18.6
10691 Sans	13.8	X	325.16494	11.68361	142.91008	0.67089	0.1214882	0.17215371	3.2003081	20	—	—
10692 Opeil	14.7	X	295.31939	304.88131	335.47550	4.95282	0.1485176	0.27826228	2.3236274	20	3 17.5	17.6
10693 Zangari	14.6	X	174.50830	356.58370	341.36149	2.08304	0.0539497	0.22443887	2.6816618	20	1 29.1	18.5
10694 Lacerda	13.2	X	170.59829	128.42216	177.88002	22.08222	0.0356601	0.17145830	3.2089556	20	—	—
10695 Yasunorifujiwara	13.5	X	58.88853	226.87928	155.65022	5.72390	0.1388066	0.17025086	3.2241099	20	—	—
10696 Giuliattiwinter	14.4	X	231.14443	182.74764	162.48330	3.24134	0.0829600	0.27918103	2.3185268	20	4 6.3	17.5
10697 Othonwinter	14.4	X	247.29714	154.79929	172.82583	14.58478	0.1555640	0.22832033	2.6511827	20	3 29.7	18.5
10698 Singer	15.6	X	56.62527	210.40235	311.93112	2.33973	0.1155012	0.27981147	2.3150429	20	4 30.7	18.1
10699 Calabrese	13.9	X	78.65619	184.44882	202.77581	2.50841	0.0437087	0.17099854	3.2147049	20	—	—
10700 Juanangelviera	14.4	X	205.66028	352.34051	358.21344	5.19042	0.2011000	0.22708639	2.6607781	20	3 16.9	18.9
10701 1981 PF	14.6	X	158.42693	181.30841	147.16683	12.62538	0.2895839	0.26539793	2.3981207	20	1 13.8	18.7
10702 Arizorcas	14.3	X	97.29975	8.11498	328.11139	2.69273	0.2112849	0.26069783	2.4268584	20	—	—
10703 1981 QU_3	14.3	X	174.68100	151.64597	151.32432	10.30128	0.1786091	0.26577318	2.3958628	20	—	—
10704 1981 RQ_1	13.2	X	298.44851	195.90887	153.99660	2.54814	0.0966915	0.19934694	2.9022156	20	7 8.1	17.0
10705 1981 SL	14.6	X	244.35639	140.74285	195.98359	6.95297	0.2556382	0.27095663	2.3652090	20	3 26.1	18.5
10706 1981 SE_2	14.3	X	70.95233	253.79772	106.08518	3.25462	0.2086600	0.25969049	2.4331302	20	—	—
10707 Prunariu	13.2	X	80.69717	319.21726	58.74769	7.11435	0.2321179	0.25997274	2.4313688	20	—	—
10708 Richardspalding	12.9	X	295.14633	275.18571	100.77502	3.13490	0.0745148	0.19809631	2.9144177	20	8 11.6	16.6
10709 Ottofranz	13.4	X	184.07597	303.46044	130.98829	6.51014	0.1868273	0.24124579	2.5556197	20	6 10.3	17.6
10710 1982 JE_1	14.0	X	319.27713	291.43088	72.79623	5.25871	0.1828111	0.29027002	2.2590955	20	9 14.9	15.5
10711 Pskov	13.0	X	144.52195	331.04059	12.01977	12.34297	0.2216559	0.21729626	2.7401093	20	1 23.5	17.6
10712 Malashchuk	14.2	X	20.16017	62.84212	22.76356	2.17242	0.1718509	0.26619576	2.3933265	20	—	—
10713 Limorenko	13.7	X	49.20206	144.33676	224.39434	17.33257	0.2010259	0.21185914	2.7867921	20	—	—
10714 1983 QG	13.6	X	200.82547	280.05078	80.30420	14.29889	0.3488081	0.22979323	2.6398418	20	3 30.9	18.9
10715 Nagler	13.5	X	203.04938	212.98337	166.30098	17.67447	0.2741811	0.23083489	2.6318941	20	4 20.3	18.4
10716 Olivermorton	13.1	X	191.99010	296.43188	56.16146	9.79951	0.1182200	0.22572537	2.6714628	20	3 12.5	17.4
10717 Dickwalker	14.6	X	211.10753	309.51131	84.23601	7.63771	0.1726065	0.28423075	2.2909838	20	5 14.7	18.1
10718 Samus′	13.7	X	332.36507	188.29087	149.10192	2.55632	0.1455588	0.19552635	2.9398997	20	8 11.6	16.8
10719 Andamar	14.3	X	120.75880	345.20300	6.88651	1.29592	0.1928823	0.26410483	2.4059420	20	—	—
10720 Danzl	14.1	X	98.83536	319.04637	15.50100	3.13697	0.1426889	0.30643275	2.1789433	20	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
10721 Tuterov	14.2	X	304.12149	1.47537	2.93921	6.65804	0.1848492	0.28838116	2.2689493	20	8 7.1	16.1
10722 Monari	13.7	X	147.39355	354.16016	0.98822	14.63071	0.2211243	0.27494895	2.3422577	20	2 4.7	17.4
10723 1986 *TH*	14.2	X	277.36433	72.72518	311.31652	5.12997	0.1370289	0.28697983	2.2763296	20	7 24.8	16.6
10724 Carolraymond	14.0	X	77.98983	176.94060	267.19767	5.78229	0.0943654	0.27321282	2.3521698	20	2 7.7	16.7
10725 Sukunabikona	14.0	X	197.50911	342.69051	63.78638	7.40110	0.1287897	0.27956647	2.3163952	20	5 18.4	17.4
10726 Elodie	14.5	X	15.46737	315.31269	146.17309	2.54149	0.1652906	0.26614846	2.3936101	20	—	—
10727 Akitsushima	12.5	X	355.52628	199.52565	314.28213	5.71436	0.0269168	0.17770339	3.1333260	20	1 26.7	16.7
10728 Vladimirfock	14.7	X	213.77412	195.13191	119.38773	3.00740	0.1839378	0.31685620	2.1308911	20	2 1.5	17.7
10729 Tsvetkova	13.8	X	257.60297	311.96056	3.61046	8.75186	0.2119949	0.23034018	2.6356612	20	3 18.7	18.0
10730 White	13.9	X	87.55996	17.37269	349.73668	3.82743	0.1098193	0.30950736	2.1644891	20	—	—
10731 1988 BL_3	13.6	X	330.34318	83.37259	264.26958	6.05909	0.2061137	0.29074345	2.2566425	20	9 5.4	15.1
10732 1988 BM_3	14.5	X	14.09570	243.38251	297.52584	1.64008	0.1832603	0.27821101	2.3239129	20	3 6.6	16.1
10733 Georgesand	13.5	X	239.74141	288.25271	135.12640	2.98786	0.0791588	0.19860196	2.9094688	20	7 29.5	17.7
10734 Wieck	12.9	X	303.22170	72.10104	197.89917	9.40133	0.0529305	0.18789571	3.0189654	20	4 6.9	17.0
10735 Seine	13.7	X	309.60162	237.28704	260.01312	3.65225	0.1424551	0.26978030	2.3720794	20	—	—
10736 Marybrück	14.0	X	85.76014	253.47859	271.25421	8.99558	0.0341039	0.19103036	2.9858487	20	6 5.9	18.1
10737 Brück	15.2	X	344.48773	104.92224	176.19170	19.17238	0.1305106	0.37495702	1.9046495	20	6 23.8	16.9
10738 Marcoaldo	14.1	X	59.05105	287.91990	201.37222	6.11729	0.0655134	0.27698314	2.3307758	20	3 9.4	16.7
10739 Lowman	14.5	X	274.93769	84.23698	149.39940	20.02711	0.3910801	0.17561952	3.1580636	20	—	—
10740 Fallersleben	14.1	X	102.23102	236.26978	136.16636	0.41174	0.1104577	0.22632803	2.6667184	20	—	—
10741 Valeriocarruba	13.3	X	135.19536	45.45919	57.75014	15.99685	0.0944414	0.23827058	2.5768498	20	5 24.5	16.9
10742 1988 VK_2	13.6	X	293.25968	305.07564	75.53554	7.47552	0.1337285	0.24159192	2.5531781	20	8 13.8	16.6
10743 1988 VS_2	13.4	X	266.88278	154.07010	211.30182	13.13009	0.1913516	0.23851202	2.5751105	20	6 2.4	17.1
10744 Tsuruta	13.1	X	275.06094	265.44344	90.43512	15.85931	0.1807707	0.23761583	2.5815813	20	6 2.7	16.6
10745 Arnstadt	13.6	X	84.05096	126.29554	122.28548	8.40314	0.0223518	0.17525018	3.1624990	20	9 20.1	18.1
10746 Mühlhausen	13.2	X	252.54403	315.70635	325.70100	12.11377	0.1560920	0.22215655	2.6999971	20	2 7.6	17.4
10747 Köthen	14.5	X	172.09040	220.67466	198.89559	3.49839	0.1171645	0.29440293	2.2379032	20	5 8.9	17.7
10748 1989 CE_8	13.1	X	38.04882	180.11086	253.92044	9.47655	0.0934005	0.21861285	2.7290967	20	—	—
10749 Musäus	15.1	X	193.20993	19.37646	90.99850	3.81035	0.1252792	0.26405569	2.4062405	20	8 8.5	18.7
10750 1989 *PT*	14.4	X	353.73740	156.86090	145.35304	6.36384	0.1237009	0.28513068	2.2861607	20	8 14.3	16.3
10751 1989 UV_1	13.6	X	232.22121	320.27630	19.56090	0.73451	0.2332348	0.18097493	3.0954498	20	3 26.8	18.8
10752 1989 WJ_1	14.0	X	7.79776	176.99526	218.14850	5.94005	0.1453634	0.25728832	2.4482513	20	—	—
10753 van de Velde	14.0	X	291.61927	150.90077	275.13219	3.54016	0.0705432	0.22042969	2.7140801	20	10 14.1	17.4
10754 1990 QV_5	14.7	X	146.68735	166.21297	178.62117	1.89911	0.0936225	0.31220751	2.1519912	20	—	—
10755 1990 RO_6	13.5	X	15.99335	304.00279	355.38840	1.69188	0.0895137	0.19721145	2.9231289	20	9 3.1	17.1
10756 1990 SJ_2	14.0	X	337.99797	319.11311	79.91795	4.74863	0.1634188	0.29876174	2.2160832	20	12 24.9	15.8
10757 1990 SF_3	13.8	X	171.99961	285.25576	118.87833	3.78623	0.0660445	0.28438156	2.2901737	20	4 17.5	16.9
10758 Aldoushuxley	15.0	X	209.85760	85.83042	44.88866	6.08179	0.0980395	0.29639360	2.2278716	20	10 2.4	17.8
10759 1990 SX_{16}	12.8	X	274.53496	339.53384	11.25892	10.20447	0.1261019	0.19234480	2.9722301	20	5 30.2	17.2
10760 Ozeki	14.1	X	13.74719	306.08869	90.21338	4.73761	0.1295175	0.30095676	2.2052948	20	—	—
10761 Lyubimets	14.0	X	326.34408	191.67355	280.33572	1.29721	0.1271410	0.23598855	2.5934353	20	—	—
10762 von Laue	13.4	X	219.88556	157.46643	227.20354	1.43770	0.1014112	0.18649058	3.0341109	20	5 16.2	18.0
10763 Hlawka	12.7	X	198.96042	305.49042	83.05219	10.82002	0.1094577	0.18583045	3.0412921	20	5 2.8	17.5
10764 Rübezahl	13.3	X	204.21988	262.14267	98.86339	10.80137	0.1116358	0.18444427	3.0565108	20	4 6.7	18.3
10765 1990 *UZ*	11.7	X	275.61497	261.92024	85.66395	11.35285	0.1228653	0.18837059	3.0138894	20	5 31.2	15.8
10766 1990 UB_1	12.0	X	108.21376	14.48854	32.50818	14.78716	0.1586230	0.17720431	3.1392064	20	3 3.7	16.8
10767 Toyomasu	13.9	X	16.09567	286.63123	58.54193	4.46957	0.1503560	0.29739927	2.2228464	20	12 6.6	16.4
10768 Sarutahiko	15.3	X	9.71626	262.49024	135.58246	4.43691	0.1585611	0.30083162	2.2059063	20	—	—
10769 Minas Gerais	12.7	X	231.80426	159.14810	174.65328	9.50147	0.0911831	0.18306485	3.0718458	20	3 29.2	17.4
10770 Belo Horizonte	13.3	X	235.70875	170.22538	181.68762	9.43962	0.1067158	0.18362212	3.0656275	20	4 23.7	17.9
10771 Ouro Prêto	13.1	X	282.41043	145.29567	192.83204	12.16808	0.1979564	0.18764180	3.0216883	20	5 17.3	17.5
10772 1990 *YM*	13.0	X	330.51287	38.11260	103.74172	24.39335	0.2511677	0.26687697	2.3892522	20	—	—
10773 Jamespaton	13.6	X	59.74094	204.22696	216.64185	21.11603	0.0740502	0.17185540	3.2040104	20	—	—
10774 Eisenach	14.8	X	52.76049	86.05291	294.46022	4.83688	0.1639787	0.26528749	2.3987861	20	—	—
10775 Leipzig	14.6	X	275.45846	188.09144	319.20085	1.57088	0.1460818	0.26220074	2.4175759	20	—	—
10776 Musashitomiyo	14.3	X	279.20106	7.74472	112.39042	5.10159	0.1321602	0.26013208	2.4303759	20	12 13.9	16.8
10777 1991 EB_5	14.1	X	245.69058	130.90642	145.91776	6.57877	0.1046151	0.26953161	2.3735383	20	1 22.5	17.4
10778 Marcks	14.4	X	49.87616	243.42934	101.32573	4.77139	0.1825442	0.28794196	2.2712560	20	—	—
10779 1991 *LW*	13.5	X	42.59035	115.83268	91.05712	12.12362	0.1798452	0.23902000	2.5714607	20	6 24.4	16.1
10780 Apollinaire	14.5	X	354.28118	113.79109	112.39820	6.36591	0.1958209	0.23286318	2.6165890	20	4 13.2	16.9
10781 Ritter	14.1	X	240.79355	153.43726	184.66245	5.47620	0.1224866	0.22999001	2.6383358	20	4 7.1	18.0
10782 Hittmair	15.0	X	186.11077	129.35836	316.83012	4.03791	0.1503712	0.29833979	2.2181722	20	6 29.0	18.4
10783 1991 RB_9	13.6	X	291.16241	232.16813	177.83427	1.96137	0.0611949	0.20329087	2.8645570	20	9 21.9	17.2
10784 Noailles	13.4	X	37.85650	57.31830	134.51001	15.93885	0.0407273	0.23197166	2.6232888	20	5 13.3	17.1
10785 Dejaiffe	13.7	X	292.21865	284.83635	126.83822	3.35379	0.1159630	0.20654445	2.8343950	20	9 20.7	17.1
10786 Robertmayer	15.5	X	165.23661	124.52914	345.09547	3.44100	0.0651763	0.29926813	2.2135826	20	7 9.5	18.4
10787 Ottoburkard	14.1	X	57.92806	107.92484	287.00362	5.01596	0.1260921	0.17995702	3.1071116	20	—	—
10788 1991 *UC*	13.5	X	338.30706	53.12241	312.20853	1.06315	0.0328768	0.20271615	2.8699686	20	10 1.5	17.2
10789 Mikeread	13.8	X	318.80019	185.55953	165.32933	2.18542	0.0873105	0.19862807	2.9092137	20	8 11.2	17.3
10790 1991 *XS*	12.8	X	104.90867	241.85861	236.34747	9.94943	0.1357956	0.18718346	3.0266189	20	5 15.3	17.2
10791 Uson	12.5	X	93.43158	221.63251	139.82112	23.54024	0.0820512	0.16928684	3.2363383	20	—	—
10792 Ecuador	12.7	X	238.30031	177.08372	157.20180	10.27381	0.0945671	0.18367872	3.0649977	20	4 6.9	17.4
10793 Quito	12.7	X	97.43714	104.55976	276.36790	8.07841	0.0916619	0.17467866	3.1693934	20	1 3.8	16.9
10794 Vänge	13.2	X	144.02071	302.89142	40.57008	1.92328	0.2198432	0.17192649	3.2031272	20	1 25.2	18.3
10795 Babben	12.1	X	315.84240	14.54405	151.27780	22.53582	0.0348078	0.17091739	3.2157223	20	—	—
10796 Sollerman	14.9	X	10.50473	241.48654	165.18621	1.21728	0.1210051	0.30557803	2.1830045	20	—	—
10797 Guatemala	14.8	X	94.25190	349.94949	199.35560	2.71542	0.1190788	0.28770036	2.2725273	20	8 6.2	17.8
10798 1992 *LK*	14.2	X	346.20946	225.08948	75.31198	6.45808	0.2272940	0.28386152	2.2929700	20	7 29.5	15.4
10799 Yucatán	14.1	X	43.05818	227.69758	133.96770	4.57544	0.1929981	0.25530095	2.4609404	20	—	—
10800 1992 OM_8	14.4	X	322.24735	107.73098	170.06730	0.88878	0.0683679	0.24204248	2.5500086	20	5 9.9	17.5

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
10801 Lüneburg	14.2	X	300.38439	211.72234	167.08506	4.54862	0.1594794	0.24305406	2.5429284	20	8 16.2	16.9
10802 Masamifuruya	13.7	X	7.80448	5.99696	74.59715	6.30854	0.1815550	0.21771051	2.7366323	20	—	—
10803 Caléyo	14.4	X	229.54601	237.57988	96.00248	3.96798	0.0331876	0.23125869	2.6286777	20	3 28.6	18.0
10804 Amenouzume	13.4	X	10.54631	340.30771	71.12001	9.62840	0.2214449	0.21477175	2.7615396	20	—	—
10805 Iwano	13.2	X	25.49906	23.33767	87.77638	14.12676	0.1142709	0.22109393	2.7086414	20	1 2.7	16.1
10806 Mexico	13.2	X	283.30013	80.18223	98.09990	6.15579	0.1068541	0.17276844	3.1927122	20	—	—
10807 Uggarde	13.0	X	260.37548	111.59207	123.22144	2.65061	0.1317278	0.17463915	3.1698714	20	—	—
10808 Digerrojr	12.9	X	76.75623	328.02765	167.06193	9.86225	0.0409647	0.18435025	3.0575499	20	4 20.9	17.2
10809 Majsterrojr	13.0	X	78.89224	296.31922	104.52735	6.43400	0.1724368	0.17617983	3.1513642	20	1 14.8	16.9
10810 Lejsturojr	13.5	X	184.08161	315.06659	86.98289	4.11702	0.1262116	0.18617512	3.0375373	20	5 2.3	18.3
10811 Lau	12.6	X	274.42981	290.84791	120.14267	7.20130	0.2186159	0.19601247	2.9350370	20	8 6.1	16.6
10812 Grotlingbo	13.4	X	148.75779	186.85923	252.77868	1.85787	0.1108689	0.18663471	3.0325486	20	5 11.6	17.9
10813 Masterby	12.7	X	178.43070	98.97588	181.34242	21.70308	0.0452567	0.17125526	3.2114915	20	—	—
10814 Gnisvärd	12.6	X	139.41452	315.60106	31.48334	10.97537	0.0953693	0.17428021	3.1742222	20	1 14.6	17.5
10815 Östergarn	14.5	X	218.20460	189.46230	125.92827	3.29075	0.1670883	0.17846482	3.1244072	20	2 20.0	19.7
10816 1993 FZ_{35}	13.7	X	188.61251	217.81223	116.34543	2.65219	0.1475504	0.17762582	3.1342381	20	2 16.7	18.8
10817 1993 FR_{44}	12.7	X	45.43241	128.60938	333.80815	4.20007	0.1334980	0.17902505	3.1178856	20	2 4.6	16.3
10818 1993 FK_{81}	13.2	X	33.88843	15.25665	171.83613	9.97739	0.0324034	0.18479492	3.0526431	20	4 28.9	17.4
10819 Mahakala	13.6	X	287.96549	183.86813	41.62556	1.36647	0.1327064	0.17622889	3.1507792	20	1 15.9	18.1
10820 Offenbach	14.4	X	45.09266	284.39376	142.71150	6.30021	0.2010446	0.26887664	2.3773913	20	—	—
10821 Kimuratakeshi	14.3	X	274.08991	170.67794	215.90905	3.09447	0.1557489	0.28796508	2.2711344	20	7 18.9	16.9
10822 Yasunori	13.9	X	336.00793	273.93337	57.58060	2.48811	0.0845461	0.29028129	2.2590370	20	8 27.7	16.0
10823 Sakaguchi	14.4	X	195.85388	272.98329	148.51170	4.45835	0.1603458	0.28292952	2.2980027	20	6 5.3	17.9
10824 1993 SW_3	14.2	X	15.34559	279.88709	55.12747	6.21480	0.2009032	0.29496373	2.2350658	20	11 28.7	16.4
10825 Augusthermann	14.3	X	283.66032	256.30836	105.57789	6.76658	0.1326094	0.28768228	2.2726226	20	7 1.4	16.5
10826 1993 SK_{16}	13.0	X	339.22282	32.97438	260.56076	7.65688	0.1494255	0.28727828	2.2747527	20	6 27.1	14.7
10827 Doikazunori	14.8	X	49.93611	193.71009	166.10045	2.39814	0.2065368	0.29966324	2.2116364	20	—	—
10828 Tomjones	14.2	X	105.65766	46.61197	280.56870	2.96383	0.2269398	0.30229743	2.1987697	20	—	—
10829 Matsuobasho	13.8	X	306.50665	322.66736	58.94217	7.83931	0.1971502	0.28958111	2.2626770	20	9 13.3	15.5
10830 Desforges	13.6	X	333.08999	307.64840	178.71448	11.15118	0.1752231	0.22696605	2.6617185	20	—	—
10831 Takamagahara	15.2	X	78.66668	115.32243	11.45988	1.39325	0.2305897	0.23596357	2.5936184	20	5 6.3	18.4
10832 Hazamashigetomi	15.1	X	250.33473	203.78801	154.24926	2.80451	0.1668425	0.28049569	2.3112766	20	5 7.4	18.4
10833 1993 VJ_4	15.0	X	6.17135	322.25665	16.96036	2.59024	0.1970321	0.29227456	2.2487545	20	11 18.5	17.0
10834 Zembsch–Schreve	14.1	X	324.09132	238.17778	9.57904	5.72952	0.0666848	0.27818382	2.3240643	20	3 28.2	16.7
10835 Fröbel	14.3	X	211.23772	333.47811	104.02652	7.04918	0.0699275	0.28052986	2.3110889	20	7 20.3	17.2
10836 1994 CS_2	13.1	X	167.39725	338.16789	132.58049	14.89944	0.0889563	0.23750124	2.5824116	20	7 10.2	17.0
10837 Yuyakekoyake	12.5	X	104.89549	263.41436	179.54979	21.85832	0.0699706	0.22693505	2.6619609	20	3 19.9	16.1
10838 Lebon	13.2	X	295.73913	277.30209	10.08995	12.83316	0.1646177	0.22967036	2.6407832	20	3 30.6	16.8
10839 Hufeland	14.0	X	41.37316	262.83431	173.38573	10.44072	0.2119850	0.22221817	2.6994980	20	—	—
10840 1994 LR	11.9	X	309.61298	131.62474	94.73039	12.64575	0.0431852	0.18228808	3.0805662	20	2 27.5	16.3
10841 Ericforbes	15.1	X	263.74657	190.52477	60.01585	23.39463	0.0540612	0.36514690	1.9386123	20	—	—
10842 1994 UY_1	15.5	X	277.30708	234.71329	206.31767	3.47983	0.1461242	0.30273076	2.1966710	20	10 23.7	17.3
10843 1994 YF_2	14.0	X	92.81839	97.03156	61.03873	4.04811	0.1252187	0.28555611	2.2838894	20	6 22.1	16.7
10844 1995 AG	14.6	X	272.15747	165.69043	278.21141	3.38239	0.0588441	0.29826962	2.2185201	20	10 28.3	16.8
10845 1995 AA_1	14.9	X	209.85643	301.25354	116.48620	5.91383	0.0909237	0.28818483	2.2699797	20	6 18.8	18.1
10846 1995 AW_2	13.9	X	81.87972	306.45430	247.88700	5.39654	0.1146573	0.28761526	2.2729755	20	7 26.8	16.8
10847 Koch	13.4	X	16.56682	125.31554	302.34872	8.96039	0.0917072	0.19161571	2.9797647	20	—	—
10848 1995 BD_1	14.6	X	252.82390	298.27151	98.06698	4.15785	0.1541238	0.29104365	2.2550904	20	7 4.0	17.3
10849 1995 BO_1	13.6	X	147.60326	278.25592	256.12525	3.61616	0.0780198	0.29260527	2.2470597	20	9 14.4	16.7
10850 Denso	15.4	X	337.22648	11.97828	17.25309	8.37875	0.1896569	0.29965172	2.2116931	20	12 10.9	17.2
10851 1995 CE	14.3	X	132.72210	4.05494	94.29259	5.39386	0.1137893	0.28270950	2.2991949	20	5 18.4	17.5
10852 1995 CK	14.7	X	102.45908	313.25500	114.21519	7.45705	0.0899938	0.27607420	2.3358888	20	2 24.6	17.4
10853 Aimoto	14.6	X	339.90452	98.74856	137.28456	6.85712	0.0688695	0.28049343	2.3112890	20	4 8.2	17.1
10854 1995 DO_1	14.7	X	213.25433	174.96824	33.08412	4.84165	0.1833393	0.26034078	2.4290768	20	12 27.4	17.9
10855 1995 DR_1	14.1	X	51.43724	336.59501	135.92860	8.38779	0.0656367	0.27364466	2.3496945	20	2 4.4	16.5
10856 Bechstein	12.7	X	55.15052	309.69040	354.18596	25.89516	0.2387876	0.17461128	3.1702087	20	11 6.2	17.8
10857 Blüthner	14.2	X	262.42351	66.32541	166.34389	2.54651	0.1635452	0.26770767	2.3843070	20	—	—
10858 1995 FT	14.0	X	211.62393	69.35782	142.34142	3.58751	0.1415051	0.25924772	2.4358998	20	—	—
10859 1995 GJ_7	12.8	X	270.29623	200.32213	15.56307	9.22078	0.1579150	0.22739879	2.6583405	20	—	—
10860 1995 LE	17.2	X	355.58896	75.35946	257.29444	4.14941	0.5746700	0.23820527	2.5773208	20	12 16.0	19.6
10861 Ciske	13.7	X	58.12479	244.55849	159.00377	8.99794	0.2957652	0.22037641	2.7145175	20	—	—
10862 1995 QE_2	13.5	X	217.50577	147.41529	225.31439	22.65524	0.2341954	0.18618657	3.0374128	20	4 21.2	18.7
10863 Oye	13.7	X	311.33455	181.03946	187.90985	13.36395	0.0724847	0.19566534	2.9385074	20	8 22.6	17.6
10864 Yamagatashi	12.3	X	106.13471	71.41309	305.12731	12.36195	0.1305059	0.17477542	3.1682235	20	1 15.5	16.7
10865 Thelmaruby	13.1	X	329.82547	194.44240	10.97130	0.97476	0.1049976	0.18144459	3.0901060	20	2 16.0	17.1
10866 Peru	14.7	X	232.47642	228.75384	311.31772	2.47744	0.1239286	0.26010072	2.4305712	20	12 23.9	17.7
10867 Lima	14.2	X	63.91409	309.19824	138.87416	5.59492	0.0250115	0.22858003	2.6491742	20	1 25.2	17.5
10868 1996 RF_5	14.5	X	297.00232	189.69312	116.99477	7.16612	0.1281604	0.28019240	2.3129442	20	5 4.3	17.2
10869 1996 SJ_4	14.6	X	51.85863	337.88130	343.58315	5.06762	0.2009701	0.29559865	2.2318641	20	12 25.7	17.9
10870 Gwendolen	15.3	X	144.72463	276.93492	69.45124	2.97699	0.2046393	0.26504358	2.4002576	20	1 16.6	18.8
10871 1996 TG_7	14.6	X	118.11770	298.38176	26.73029	2.58467	0.1983411	0.26025131	2.4296335	20	—	—
10872 Vaculík	15.1	X	40.00636	66.72933	208.47058	2.87020	0.0836897	0.24316756	2.5421371	20	9 11.2	18.2
10873 1996 TF_{11}	14.5	X	162.82308	36.55535	274.23372	2.32722	0.2114885	0.26318202	2.4115628	20	—	—
10874 Locatelli	15.0	X	224.75088	282.08424	36.82144	0.65809	0.2026269	0.27027502	2.3691840	20	2 20.6	19.0
10875 Veracini	14.5	X	262.09736	35.16008	167.30552	9.86311	0.2154548	0.21810548	2.7333275	20	—	—
10876 1996 UB	13.1	X	16.91667	84.12676	246.85439	1.01257	0.0135017	0.20301554	2.8671464	20	10 8.2	16.8
10877 Jiangnan Tianchi	14.0	X	127.21118	190.84738	194.07407	5.89246	0.1632597	0.22325967	2.6910960	20	2 13.4	17.9
10878 Moriyama	13.8	X	47.78318	235.68604	56.81908	4.12160	0.1382242	0.24615614	2.5215191	20	10 26.6	17.1
10879 1996 VM_3	13.2	X	318.82871	91.45895	265.50212	1.19002	0.0677022	0.19791505	2.9161969	20	8 20.9	16.8
10880 Kaguya	13.8	X	141.92743	307.10616	217.65576	1.19491	0.0362985	0.19577467	2.9374132	20	8 15.5	18.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
10881 1996 VA_5	13.7	X	26.70953	49.79916	206.70802	11.79799	0.1508736	0.23846612	2.5754410	20	7 31.2	16.8
10882 Shinonaga	13.3	X	116.10927	285.22796	38.32694	5.40249	0.1458972	0.21479637	2.7613286	20	—	—
10883 1996 VU_5	13.5	X	97.34935	278.58613	136.97277	2.21773	0.1784701	0.17824689	3.1269534	20	2 26.2	17.9
10884 Tsuboimasaki	13.5	X	221.53956	270.28976	115.33301	4.06788	0.1212778	0.23235027	2.6204383	20	5 18.1	17.5
10885 Horimasato	12.2	X	71.96852	96.15509	78.33289	11.00685	0.0361584	0.18870601	3.0103170	20	6 1.4	16.2
10886 Mitsuroohba	12.8	X	321.77721	250.75454	268.18106	6.63192	0.0191175	0.17392895	3.1784945	20	—	—
10887 1996 XU_{25}	13.5	X	320.62795	170.44043	218.54347	1.82182	0.0598446	0.20052155	2.8908708	20	10 6.4	17.2
10888 Yamatano–orochi	12.6	X	263.55203	149.09572	80.35929	18.11420	0.0821877	0.17334016	3.1856881	20	—	—
10889 1997 AO_1	11.7	X	194.34093	172.74544	112.42664	5.19589	0.0686160	0.12617195	3.9369584	20	1 2.4	17.4
10890 1997 AY_2	12.8	X	146.18551	280.66448	88.06611	10.44476	0.2436088	0.17632375	3.1496491	20	2 29.4	18.2
10891 Fink	15.2	X	157.21186	245.35879	189.98797	5.08745	0.1255999	0.28445610	2.2897736	20	5 15.3	18.5
10892 1997 SX_2	14.7	X	123.15151	161.52396	341.19499	3.47771	0.1483144	0.29008531	2.2600544	20	7 10.8	17.8
10893 1997 SB_{10}	14.1	X	128.84100	251.21012	232.70332	4.35905	0.1650873	0.24009853	2.5637542	20	6 20.7	18.0
10894 Nakai	13.6	X	3.37184	245.85710	240.52038	1.96550	0.2192808	0.18337948	3.0683311	20	—	—
10895 Aynrand	13.9	X	160.31477	61.59737	55.27260	5.14408	0.0726603	0.28909638	2.2652055	20	7 13.5	16.9
10896 1997 UZ_{14}	14.8	X	17.11612	86.66941	48.25199	4.34607	0.1311631	0.27339470	2.3511265	20	1 7.2	17.0
10897 1997 VW_3	13.3	X	292.43849	219.43024	154.44839	2.52342	0.0871406	0.20532915	2.8455681	20	8 2.6	16.9
10898 1997 WJ_2	14.6	X	78.63491	110.58915	73.17660	3.90831	0.0490074	0.28480784	2.2878880	20	6 27.3	17.3
10899 1997 WN_{13}	15.1	X	71.30364	271.92556	173.73737	1.97799	0.1799214	0.27310703	2.3527772	20	2 12.9	17.1
10900 Folkner	14.6	X	353.95530	243.70874	188.17987	3.33930	0.1741567	0.26217106	2.4177583	20	—	—
10901 1997 WS_{21}	15.3	X	305.22974	248.27656	167.26208	2.88100	0.1194780	0.29822852	2.2187239	20	11 10.9	17.0
10902 1997 WB_{22}	13.2	X	21.18515	138.62546	98.00755	9.30952	0.0925911	0.27975523	2.3153532	20	6 20.0	15.3
10903 1997 WA_{30}	13.8	X	52.63186	245.51692	234.93331	11.75823	0.1606564	0.23053144	2.6342032	20	2 28.4	16.9
10904 1997 WR_{31}	14.5	X	344.96827	288.47578	167.87579	1.32334	0.1515364	0.26448187	2.4036549	20	—	—
10905 1997 WB_{38}	14.5	X	155.41485	170.68234	100.66707	2.43634	0.1273658	0.30761296	2.1733665	20	—	—
10906 1997 WO_{44}	14.0	X	96.44706	305.58477	252.96585	5.38035	0.1941313	0.24344412	2.5402114	20	8 24.2	18.0
10907 Savalle	14.2	X	341.14233	17.90948	31.60853	2.13611	0.0858074	0.20700303	2.8302073	20	12 5.1	17.7
10908 Kallestroetzel	13.3	X	204.95948	335.88754	54.28276	3.55981	0.1862282	0.18572213	3.0424745	20	5 4.8	18.3
10909 1997 XB_{10}	13.3	X	5.65123	106.69663	67.03445	12.90803	0.1360981	0.27364221	2.3497085	20	2 18.1	15.8
10910 1997 YX	14.6	X	210.78236	249.18786	201.83559	1.95795	0.1579251	0.24421385	2.5348710	20	7 27.0	18.5
10911 1997 YC_1	14.3	X	146.28233	282.78772	72.08941	3.64653	0.2138318	0.27068350	2.3667998	20	1 29.5	17.8
10912 1997 YW_5	13.4	X	266.20446	64.59615	63.68124	6.10166	0.0958613	0.21051255	2.7986637	20	11 24.2	17.0
10913 1997 YE_{14}	12.7	X	145.26217	338.93534	298.13069	8.18128	0.1305343	0.21113544	2.7931566	20	—	—
10914 Tucker	13.9	X	272.99888	207.50827	6.98397	0.54838	0.1349933	0.17382456	3.1797670	20	—	—
10915 1997 YU_{16}	14.4	X	347.96171	143.77290	73.08918	3.01030	0.0198744	0.23144371	2.6272765	20	3 31.5	17.8
10916 Okina–Ouna	13.2	X	69.62841	314.80334	305.67964	0.94308	0.0239875	0.20127122	2.8836879	20	9 17.3	17.2
10917 1998 AN	13.1	X	295.75058	173.40739	330.50293	4.54346	0.0877242	0.21382611	2.7696755	20	—	—
10918 Kodaly	13.9	X	18.36327	15.93653	114.66967	2.91460	0.1449043	0.17984296	3.1084252	20	1 25.6	17.4
10919 Pepíkzicha	13.8	X	70.11731	93.53067	237.51577	4.25985	0.0196187	0.20847826	2.8168402	20	12 16.7	17.8
10920 1998 BC_1	12.9	X	4.47207	280.10525	182.09063	0.29987	0.1493485	0.17382228	3.1797948	20	—	—
10921 Romanozen	14.7	X	268.05808	70.62303	345.25399	4.84471	0.1611694	0.29166395	2.2518919	20	8 24.1	17.0
10922 1998 BG_2	13.8	X	116.52216	200.99540	87.97781	1.19600	0.1844770	0.29951540	2.2123642	20	—	—
10923 1998 BM_{12}	13.6	X	29.91185	260.38431	228.20208	0.44906	0.1722898	0.18160197	3.0883204	20	2 12.6	16.8
10924 Mariagriffin	13.3	X	63.20425	5.90194	134.33534	10.62314	0.0464554	0.18567993	3.0429355	20	4 12.0	17.6
10925 Ventoux	14.0	X	142.33238	137.49761	302.90345	2.47067	0.0605652	0.23254008	2.6190121	20	4 29.4	17.8
10926 1998 BF_{41}	13.5	X	98.08947	280.82968	147.60219	2.72259	0.1687610	0.18303730	3.0721540	20	3 12.0	17.7
10927 Vaucluse	14.1	X	190.82019	34.19147	14.25444	6.70179	0.1309757	0.23492462	2.6012596	20	5 12.8	18.2
10928 Caprara	13.5	X	356.38197	6.09937	35.41388	8.66624	0.2212730	0.21239268	2.7821232	20	—	—
10929 Chenfangyun	13.0	X	275.47721	182.08690	34.04138	1.53508	0.1041831	0.17549683	3.1595352	20	—	—
10930 Jinyong	13.1	X	223.86175	187.91364	165.25212	10.24284	0.1065353	0.18510076	3.0492796	20	4 13.7	17.8
10931 Ceccano	13.1	X	244.52787	181.46354	97.19237	6.31991	0.0510821	0.22300692	2.6931290	20	2 4.3	16.9
10932 Rebentrost	13.4	X	13.67563	252.61536	180.60555	12.67290	0.1627527	0.26008532	2.4306672	20	—	—
10933 1998 DC_{24}	13.3	X	71.92071	268.71596	182.39629	13.71605	0.2420144	0.22516822	2.6758678	20	3 10.4	16.4
10934 Pauldelvaux	12.6	X	318.86651	58.48413	102.13052	3.51806	0.0644020	0.17099872	3.2147027	20	—	—
10935 1998 EC	13.0	X	359.86355	248.20251	97.46948	16.74034	0.2014838	0.24346045	2.5400978	20	11 10.7	15.9
10936 1998 FN_{11}	12.6	X	58.83866	156.85980	227.35982	13.80964	0.2739740	0.25993595	2.4315982	20	—	—
10937 Ferris	12.4	X	268.27992	160.31119	209.38515	4.71169	0.0245016	0.17002023	3.2270250	20	7 1.9	16.9
10938 Lorenzalevy	11.8	X	322.92868	294.43589	8.70683	21.71432	0.0690284	0.17028669	3.2236577	20	6 11.1	16.5
10939 1999 CJ_{19}	13.8	X	90.25258	297.49102	345.02663	2.37213	0.1382875	0.30772824	2.1728237	20	12 11.1	16.8
10940 1999 CE_{52}	13.4	X	214.32306	301.73041	63.49749	6.94697	0.2076693	0.28861535	2.2677217	20	4 10.4	17.2
10941 1999 CD_{79}	13.8	X	328.50183	176.56338	158.64709	7.13335	0.0524401	0.20451921	2.8530759	20	8 7.4	17.5
10942 1999 CN_{83}	14.2	X	84.43883	78.77328	348.11394	10.30081	0.1966929	0.23707319	2.5855191	20	2 20.2	17.3
10943 Brunier	15.1	X	132.20718	74.20290	267.86972	0.74990	0.1738967	0.31335710	2.1467247	20	—	—
10944 1999 FJ_{26}	12.8	X	40.66514	343.91951	261.81786	4.26776	0.1691877	0.24276424	2.5449519	20	8 14.3	15.8
10945 1999 GS_9	12.8	X	21.84745	63.43312	102.15192	10.63128	0.0370972	0.18388144	3.0627447	20	3 19.3	17.1
10946 1999 HR_2	12.9	X	200.27158	64.96533	47.28544	15.85286	0.2157685	0.20394054	2.8584702	20	8 14.3	18.0
10947 Kaiserstuhl	14.5	X	273.64186	269.54027	320.18628	4.95575	0.1780220	0.27086696	2.3657310	20	—	—
10948 Odenwald	14.6	X	338.26119	175.62504	334.40928	6.14730	0.0485746	0.26956330	2.3733523	20	—	—
10949 Königstuhl	13.8	X	97.20551	174.61949	210.44768	12.64861	0.0311821	0.21997047	2.7178561	20	—	—
10950 Albertjansen	13.5	X	38.66714	217.42048	194.09924	8.01510	0.1282487	0.16972233	3.2307998	20	—	—
10951 Spessart	13.7	X	138.24643	236.78473	203.10554	9.60365	0.0670038	0.19122926	2.9837779	20	4 27.9	18.1
10952 Vogelsberg	13.4	X	59.32219	100.59288	189.27744	12.78770	0.2296532	0.19890467	2.9065161	20	11 10.8	17.8
10953 Gerdatschira	15.7	X	122.04377	255.06874	355.78276	5.50905	0.1830493	0.29854255	2.2171678	20	11 29.5	19.2
10954 Spiegel	13.8	X	1.80585	89.34134	198.82404	1.39140	0.0331196	0.19465659	2.9486506	20	7 23.6	17.6
10955 Harig	14.3	X	110.09037	125.34123	242.70605	5.17432	0.0238434	0.21957053	2.7211554	20	—	—
10956 Vosges	15.7	X	252.99415	77.70229	220.40048	6.54178	0.1193043	0.27329852	2.3516781	20	2 22.6	19.1
10957 Alps	14.0	X	191.88992	214.07967	192.43318	5.03134	0.1104349	0.19241340	2.9715235	20	5 14.9	18.6
10958 Mont Blanc	15.5	X	177.11259	282.52239	226.09789	2.20062	0.1125402	0.29533693	2.2331825	20	9 13.3	18.6
10959 Appennino	14.3	X	37.27724	16.11533	66.51971	3.14996	0.0913793	0.26927296	2.3750580	20	—	—
10960 Gran Sasso	14.3	X	119.45865	155.50663	69.07633	3.92480	0.0993176	0.29700577	2.2248093	20	10 24.8	17.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
10961 Buysballot	16.1	X	103.33418	193.29734	79.28300	1.01140	0.1258875	0.29862962	2.2167368	20	12 9.4	19.1
10962 Sonnenborgh	13.9	X	354.34031	290.21622	176.62904	9.70421	0.1676508	0.26816907	2.3815713	20	—	—
10963 van der Brugge	14.1	X	291.33387	89.57107	176.58192	10.34428	0.0731716	0.18059129	3.0998321	20	3 15.6	18.4
10964 Degraaff	14.2	X	175.89055	71.07089	206.73454	2.13887	0.0282917	0.21497513	2.7597977	20	—	—
10965 van Leverink	13.5	X	337.27358	24.20733	178.58522	2.07301	0.1184614	0.17909573	3.1170652	20	2 21.5	17.3
10966 van der Hucht	14.1	X	264.47519	91.74303	168.07166	1.41906	0.1025592	0.17769112	3.1334701	20	2 2.8	18.7
10967 Billallen	13.8	X	90.31827	191.88892	158.15637	8.96655	0.3071606	0.21333868	2.7738926	20	—	—
10968 Sterken	14.1	X	322.18930	104.17360	100.16513	2.43651	0.1139741	0.17836911	3.1255248	20	2 3.7	18.1
10969 Perryman	13.2	X	272.30081	258.35467	181.67415	8.61456	0.1524588	0.21054026	2.7984182	20	9 22.3	16.7
10970 de Zeeuw	13.8	X	177.54800	312.87719	6.63848	1.86869	0.1307911	0.21957066	2.7211543	20	1 15.4	18.0
10971 van Dishoeck	14.9	X	163.21165	35.47478	213.66464	1.76274	0.1618562	0.25711523	2.4493500	20	12 28.5	18.6
10972 Merbold	13.8	X	200.33159	340.21610	241.21765	2.32509	0.0929838	0.25706920	2.4496424	20	—	—
10973 Thomasreiter	14.4	X	99.61795	234.12388	348.03639	3.54880	0.0785524	0.29351983	2.2423897	20	9 24.5	17.3
10974 Carolalbert	14.6	X	182.48170	201.69308	16.15433	2.16048	0.1315849	0.25562680	2.4588486	20	12 10.9	18.2
10975 Schelderode	14.5	X	200.65082	128.55658	186.09192	3.73743	0.2007292	0.22073504	2.7115765	20	1 30.4	19.2
10976 Wubbena	13.8	X	105.28867	197.18587	174.36484	6.14574	0.0223992	0.21750673	2.7383413	20	—	—
10977 Mathlener	14.9	X	147.34853	115.69628	78.97635	1.38278	0.0244643	0.29449429	2.2374403	20	10 15.9	17.6
10978 Bärbchen	14.3	X	281.67798	109.33556	177.99906	15.53393	0.1366723	0.18190437	3.0848967	20	3 21.4	18.8
10979 Fristephenson	15.1	X	138.02424	121.79572	138.27403	5.56228	0.0817433	0.25584918	2.4574237	20	12 20.6	18.7
10980 Breimer	14.7	X	224.63365	325.91536	106.33070	2.85245	0.1192711	0.29060799	2.2573437	20	7 24.6	17.6
10981 Fransaris	13.9	X	61.74705	81.81070	272.25994	6.18800	0.2399271	0.21081515	2.7959850	20	—	—
10982 Poerink	13.9	X	186.51743	126.55060	198.71750	13.22196	0.2887106	0.17358776	3.1826581	20	2 4.0	19.8
10983 Smolders	14.6	X	162.61077	225.20974	80.59613	2.34152	0.1896193	0.26135569	2.4227843	20	—	—
10984 Gispen	14.6	X	179.66915	82.57038	202.52301	5.87788	0.3276837	0.30843489	2.1695036	20	—	—
10985 Feast	14.3	X	162.78318	213.68889	46.25302	5.33754	0.0510628	0.30368919	2.1920468	20	—	—
10986 Govert	14.5	X	265.85680	303.91716	116.68844	2.95463	0.1257937	0.29639496	2.2278649	20	9 4.3	16.8
10987 1967 *US*	13.4	X	53.71100	328.20959	73.70280	7.39751	0.1678210	0.26428035	2.4048766	20	—	—
10988 Feinstein	14.3	X	62.57478	127.39857	117.58355	24.05049	0.2595963	0.28645876	2.2790892	20	10 14.9	18.2
10989 Dolios	11.3	X	326.72153	206.45603	187.31321	10.58131	0.0871585	0.08384939	5.1697488	20	9 29.2	17.6
10990 Okunev	14.2	X	83.82162	146.78792	180.31205	6.19978	0.1987275	0.29916008	2.2141156	20	—	—
10991 Dulov	14.3	X	256.96663	135.08648	183.50397	2.74001	0.2276623	0.27299057	2.3534463	20	3 16.9	17.9
10992 Veryuslaviya	15.2	X	205.12800	176.11503	187.42560	4.96668	0.2430511	0.27153356	2.3618576	20	3 29.2	19.3
10993 1975 *XF*	14.9	X	264.20368	200.28116	157.14708	6.42322	0.2002780	0.27949192	2.3168071	20	5 19.2	18.2
10994 Fouchard	12.9	X	115.86049	90.35709	156.85982	2.44590	0.0073464	0.19924578	2.9031978	20	10 27.3	17.0
10995 1978 *NS*	14.4	X	314.76863	274.30132	71.60149	0.44478	0.2114718	0.18760438	3.0220900	20	7 12.7	17.6
10996 Armandspitz	12.8	X	55.88255	248.93762	102.54863	5.38524	0.1147556	0.17118021	3.2124301	20	12 28.0	17.3
10997 Gahm	13.5	X	16.72524	283.69714	321.21857	5.86666	0.2059089	0.23226176	2.6211039	20	7 4.8	15.8
10998 1978 UN_4	13.1	X	339.50542	35.64706	212.81184	13.94962	0.0884302	0.18004099	3.1061454	20	4 27.1	17.0
10999 Braga–Ribas	14.1	X	309.09571	89.81775	243.55895	9.55672	0.3418650	0.23081854	2.6320184	20	5 22.9	16.8
11000 1978 VE_6	15.4	X	179.57653	260.52855	43.38382	1.73115	0.1885182	0.26611633	2.3938028	20	—	—
11001 Andrewulff	14.4	X	137.59388	71.17214	160.79205	6.06246	0.2111470	0.29664292	2.2266232	20	11 21.6	18.1
11002 Richardlis	12.7	X	94.50777	8.50319	119.24030	11.55005	0.0591007	0.18814222	3.0163278	20	5 8.8	17.1
11003 Andronov	13.8	X	323.20415	314.61668	42.09108	3.71488	0.2647038	0.23879649	2.5730650	20	8 20.7	15.5
11004 Stenmark	11.8	X	176.01298	347.39884	351.72442	16.78043	0.1618743	0.17096407	3.2151371	20	2 16.5	17.1
11005 Waldtrudering	13.4	X	21.95569	100.56402	303.30603	8.44646	0.1963763	0.22752718	2.6573404	20	—	—
11006 Gilson	13.9	X	149.78832	102.08957	238.69891	1.55788	0.1464134	0.30702723	2.1761297	20	—	—
11007 Granahan	14.1	X	309.75916	41.76155	349.38696	3.19667	0.1362041	0.29495790	2.2350952	20	10 7.8	16.0
11008 Ernst	13.5	X	246.75390	210.83165	199.65410	13.29034	0.1052279	0.23520298	2.5992068	20	7 17.1	17.4
11009 Sigridclose	13.7	X	216.25943	312.20636	336.40636	12.85699	0.1676754	0.22237417	2.6982353	20	1 16.4	18.3
11010 Artemieva	14.5	X	60.08076	21.31768	180.14018	6.60993	0.0429118	0.28214906	2.3022385	20	6 24.2	17.2
11011 KIAM	14.4	X	165.34390	216.48609	141.77726	3.00620	0.2056291	0.26549245	2.3975515	20	2 19.2	18.3
11012 Henning	14.5	X	20.50994	152.24338	108.69407	3.70053	0.1259589	0.23600581	2.5933089	20	7 27.3	17.3
11013 Kullander	14.5	X	279.11325	174.55213	146.87877	3.67199	0.1857194	0.28076447	2.3098013	20	4 19.3	17.6
11014 Svätopluk	12.8	X	245.08706	135.15620	244.10400	7.01503	0.1247103	0.22823345	2.6518555	20	6 3.4	16.5
11015 Romanenko	13.8	X	265.71460	154.64271	176.75799	6.80966	0.2842092	0.22772350	2.6558130	20	4 8.3	18.1
11016 Borisov	14.2	X	222.81393	236.10742	184.03061	6.43216	0.1166928	0.28119231	2.3074578	20	7 4.1	17.5
11017 Billputnam	12.3	X	128.14765	259.14879	115.12420	15.18523	0.1565915	0.21460174	2.7629979	20	2 4.4	16.3
11018 1983 CZ_2	13.9	X	352.15162	192.79256	319.18330	6.47608	0.1725863	0.26317963	2.4115774	20	—	—
11019 Hansrott	14.0	X	268.19080	219.26219	16.12351	2.45058	0.1572121	0.26735968	2.3863755	20	—	—
11020 Orwell	12.6	X	228.45836	137.09801	153.83961	3.01367	0.1496800	0.18062074	3.0994952	20	1 31.4	17.7
11021 Foderà	12.1	X	80.69190	288.70438	147.80880	19.23332	0.1545963	0.17528521	3.1620777	20	2 28.4	16.3
11022 Serio	12.8	X	358.89190	230.80499	11.37068	15.58250	0.1505333	0.23375573	2.6099240	20	5 10.6	15.7
11023 1986 *QZ*	14.0	X	103.87161	230.78423	118.95662	3.97892	0.1893826	0.30112004	2.2044975	20	—	—
11024 1986 QC_1	13.6	X	200.97717	178.16861	103.78336	4.26925	0.0762629	0.21668871	2.7452287	20	—	—
11025 1986 QJ_1	14.4	X	279.84075	186.22744	146.50262	12.66486	0.1935582	0.22719932	2.6598962	20	5 9.4	18.3
11026 1986 RE_1	14.6	X	80.27821	153.92114	199.30326	3.21234	0.2429269	0.29925888	2.2136282	20	—	—
11027 Astaf'ev	14.6	X	221.40614	31.80933	317.13420	1.16708	0.0930714	0.30958455	2.1641293	20	3 26.8	17.4
11028 1987 *UW*	14.0	X	255.10465	158.91406	206.03904	32.22592	0.1650840	0.23118119	2.6292651	20	5 21.5	18.3
11029 1988 *GZ*	12.6	X	228.13392	266.21423	29.06408	5.65183	0.1146140	0.18033237	3.1027986	20	2 9.2	17.5
11030 1988 *PK*	14.8	X	157.47595	175.57000	163.59212	4.10369	0.2376929	0.26212829	2.4180213	20	1 22.1	18.6
11031 1988 RC_5	14.2	X	172.33407	289.67708	49.55627	5.76263	0.1180724	0.26360443	2.4089858	20	1 29.2	17.8
11032 1988 RE_5	14.5	X	212.53832	179.34207	121.38823	3.42017	0.1906139	0.26475684	2.4019903	20	1 19.9	18.5
11033 Mazanek	14.3	X	331.88190	250.75768	97.84495	12.93695	0.1477120	0.24605239	2.5222279	20	9 12.6	17.0
11034 1988 *TG*	14.2	X	84.97226	198.05555	204.23700	25.10334	0.2781208	0.25792663	2.4442104	20	1 19.5	17.5
11035 1988 VQ_3	13.3	X	331.74949	270.78837	229.88021	11.72711	0.1177837	0.22229517	2.6988745	20	—	—
11036 1989 AW_5	14.3	X	189.57840	354.55637	95.56907	3.11534	0.1079226	0.23377658	2.6097689	20	7 6.9	18.3
11037 Distler	14.0	X	185.06365	324.73882	130.22573	2.95798	0.0332608	0.20089653	2.8872724	20	7 8.9	18.2
11038 1989 EE_1	13.9	X	25.44875	195.88297	9.85039	6.63330	0.1376475	0.28860195	2.2677919	20	5 10.7	15.9
11039 Raynal	13.6	X	351.05434	7.12777	339.16499	1.77901	0.0644806	0.20119473	2.8844188	20	9 25.6	17.3
11040 Wundt	15.5	X	67.24545	263.29665	60.12970	0.91624	0.1958973	0.29333016	2.2433562	20	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
11041 Fechner	15.1	X	110.99847	226.54905	165.38320	6.78919	0.1029688	0.26831429	2.3807119	20	1 19.1	18.1
11042 Ernstweber	14.9	X	140.82191	350.92884	101.32763	7.53407	0.0659783	0.27454948	2.3445291	20	5 16.2	18.1
11043 Pepping	14.1	X	112.44682	325.97491	112.89486	5.18190	0.2067912	0.26831038	2.3807350	20	4 11.8	17.4
11044 1990 *DV*	13.3	X	256.14175	272.46128	247.29545	7.07465	0.2164732	0.21847554	2.7302401	20	12 4.5	16.7
11045 1990 HH_1	13.7	X	303.85365	114.09611	161.49470	12.78703	0.1739363	0.22768822	2.6560873	20	3 26.9	17.1
11046 1990 OE_4	13.7	X	162.52375	114.66001	210.32444	7.39103	0.3021063	0.21308387	2.7761036	20	1 17.8	18.7
11047 1990 QL_1	13.1	X	86.11370	241.87226	161.80126	10.11309	0.2286235	0.17816993	3.1278538	20	2 3.6	17.3
11048 1990 QZ_5	12.7	X	3.20766	246.80417	159.46397	12.95083	0.1563531	0.20387733	2.8590610	20	—	—
11049 1990 RK_2	15.1	X	216.75856	162.71349	176.73666	2.36223	0.0692282	0.31719682	2.1293653	20	3 8.7	17.8
11050 Messiaen	13.7	X	297.57576	163.32620	210.91109	9.07811	0.0926634	0.19198452	2.9759473	20	8 5.7	17.8
11051 Racine	13.3	X	262.18353	165.95544	199.41967	9.42402	0.0643265	0.18649638	3.0340480	20	6 13.9	17.7
11052 1990 *WM*	12.4	X	9.90649	165.91496	98.06660	12.28240	0.0815118	0.18941604	3.0027894	20	7 5.4	16.1
11053 1991 CQ_6	12.5	X	110.66590	196.76465	184.91620	1.85137	0.0840532	0.20089017	2.8873333	20	1 15.2	16.4
11054 1991 *FA*	17.0	X	227.80945	92.25560	339.11282	3.07681	0.4465752	0.35377538	1.9799352	20	6 29.4	20.6
11055 Honduras	13.5	X	211.91699	79.87826	199.48720	11.37220	0.2289948	0.26212963	2.4180130	20	—	—
11056 Volland	14.0	X	105.97996	270.01589	90.19519	7.35716	0.1603669	0.25660226	2.4526132	20	—	—
11057 1991 *NL*	13.6	X	9.69864	53.89714	259.81628	15.15188	0.1976405	0.24131458	2.5551339	20	9 26.3	16.7
11058 1991 PN_{10}	14.5	X	259.87345	97.32142	167.09485	22.49881	0.0699513	0.36083220	1.9540358	20	1 9.9	17.4
11059 Nulliusinverba	13.9	X	3.43152	136.92892	173.50894	14.38914	0.1993229	0.23883436	2.5727930	20	9 16.7	16.3
11060 1991 RA_{13}	13.9	X	212.79215	62.14130	212.93242	1.74318	0.1586699	0.21973484	2.7197988	20	—	—
11061 Lagerlöf	13.9	X	69.91277	328.21332	30.75027	2.09930	0.0811233	0.21258509	2.7804442	20	—	—
11062 1991 *SN*	12.5	X	193.91879	203.33239	107.10635	10.98134	0.0797250	0.18727451	3.0256378	20	1 22.9	17.0
11063 Poynting	13.0	X	287.82090	204.96466	101.78975	8.60718	0.2515123	0.22725568	2.6594564	20	4 7.2	16.9
11064 Dogen	12.8	X	115.22600	315.00743	78.98831	35.97639	0.3285557	0.21631458	2.7483932	20	3 25.7	18.1
11065 1991 XE_2	12.3	X	97.37270	295.14376	65.89002	9.93121	0.1689942	0.21193768	2.7861036	20	—	—
11066 Sigurd	15.2	X	194.50620	21.99940	349.23379	36.88046	0.3753353	0.60044724	1.3915094	20	3 12.6	16.6
11067 Greenancy	13.2	X	306.81955	232.58947	158.52552	2.45707	0.0872461	0.19266325	2.9689539	20	9 15.7	17.0
11068 1992 *EA*	14.2	X	164.70669	261.12002	337.97212	1.07298	0.1125081	0.30117821	2.2042136	20	12 30.9	17.1
11069 Bellqvist	13.0	X	300.94293	198.71643	138.21984	9.74965	0.0769838	0.18620672	3.0371936	20	6 26.9	17.1
11070 1992 EV_9	13.7	X	150.11990	184.73727	132.87294	2.01889	0.1818184	0.16852745	3.2460531	20	—	—
11071 1992 EU_{14}	13.7	X	272.28970	357.95480	302.32166	4.01015	0.1322305	0.17868769	3.1218087	20	3 25.1	18.3
11072 Hiraoka	13.4	X	192.31827	66.75595	183.14913	12.06579	0.1135479	0.26710520	2.3878909	20	—	—
11073 Cavell	14.4	X	242.54505	272.87068	332.25198	1.65415	0.1720958	0.26493427	2.4009178	20	—	—
11074 Kuniwake	14.1	X	342.37050	209.53721	144.83555	5.10550	0.2083562	0.24644064	2.5195782	20	10 13.4	16.1
11075 Dönhoff	14.8	X	151.33499	276.23797	83.98326	4.03814	0.1891005	0.26292931	2.4131078	20	2 8.8	18.5
11076 1992 *UR*	13.7	X	162.79380	314.10509	39.00762	14.83861	0.1955268	0.26372076	2.4082773	20	2 17.1	17.8
11077 1992 WB_2	13.5	X	305.40575	6.02642	334.71217	1.64629	0.1733802	0.23944561	2.5684126	20	6 27.2	16.3
11078 1992 WH_2	12.3	X	346.72602	325.85464	240.27943	12.40861	0.0956617	0.19164760	2.9794342	20	3 6.2	16.3
11079 Mitsunori	12.8	X	210.92507	287.00405	116.72511	13.92484	0.2004074	0.23158776	2.6261870	20	5 28.4	17.4
11080 1993 *FO*	13.6	X	286.81928	130.61541	191.89634	1.18950	0.1818546	0.18662019	3.0327059	20	5 3.8	17.7
11081 Persäve	13.5	X	43.60079	190.24821	170.13468	1.96779	0.0436790	0.20243208	2.8726529	20	12 22.2	17.4
11082 Spilliaert	12.6	X	254.27087	160.22319	68.40586	12.58730	0.0599570	0.16993036	3.2281626	20	—	—
11083 Caracas	14.6	X	93.73186	65.86029	354.29438	4.72537	0.1047695	0.27300963	2.3533367	20	2 3.8	17.2
11084 Giò	15.3	X	62.72403	331.36821	168.41103	3.75485	0.1243121	0.27841267	2.3227906	20	4 10.8	17.7
11085 Isala	14.1	X	278.63532	259.42575	259.33057	1.41239	0.1543107	0.26479447	2.4017628	20	—	—
11086 Nagatayuji	13.6	X	297.25208	350.56376	40.11782	5.46771	0.1601252	0.29019606	2.2594794	20	9 10.2	15.4
11087 Yamasakimakoto	14.2	X	45.03160	327.64017	28.66040	3.45184	0.1920967	0.29855842	2.2170892	20	—	—
11088 1993 *UN*	14.8	X	184.89542	188.00958	120.66453	0.57472	0.1584915	0.30946937	2.1646662	20	—	—
11089 1994 CS_8	10.7	X	65.38925	21.10994	120.12214	6.93235	0.0208190	0.08345023	5.1862210	20	4 17.6	17.6
11090 Popelin	13.7	X	243.83829	293.06175	125.62524	7.65666	0.1292356	0.24156032	2.5534008	20	7 24.6	17.2
11091 Thelonious	14.1	X	349.85144	242.45034	148.73949	1.16192	0.1517048	0.25106409	2.4885497	20	12 15.7	16.7
11092 Iwakisan	14.4	X	235.44189	108.24926	118.40605	1.41092	0.0440191	0.21778183	2.7360348	20	—	—
11093 1994 *HD*	13.4	X	7.35747	321.06823	195.11630	27.09528	0.2386199	0.22378998	2.6868430	20	1 15.9	16.7
11094 Cuba	13.4	X	309.37870	33.26483	260.90234	2.17516	0.1980790	0.18355943	3.0663255	20	4 24.9	17.2
11095 Havana	13.4	X	349.11662	157.94914	25.53272	1.94055	0.1243553	0.17349562	3.1837848	20	2 16.7	17.3
11096 1994 RU_1	13.2	X	206.04793	193.46453	172.10515	17.02504	0.2441333	0.17655919	3.1468484	20	4 7.5	18.7
11097 1994 UD_1	13.7	X	124.97609	330.41543	47.12689	2.11412	0.2456608	0.16653250	3.2719254	20	2 19.6	18.9
11098 Ginsberg	13.5	X	12.87041	343.69914	57.50349	3.89531	0.0366711	0.22034471	2.7147778	20	—	—
11099 Sonodamasaki	13.7	X	244.40851	248.68600	54.07612	9.98199	0.2220766	0.26893959	2.3770203	20	2 21.1	17.8
11100 Lai	14.7	X	230.52601	26.08398	193.30660	10.17489	0.1707020	0.26037626	2.4288561	20	—	—
11101 Českáfilharmonie	13.7	X	93.49197	10.21795	188.55416	13.50881	0.0906420	0.23196946	2.6233053	20	8 7.4	17.7
11102 Bertorighini	14.3	X	303.83537	166.90193	202.98561	2.72838	0.1158907	0.23693071	2.5865556	20	8 14.1	17.2
11103 Miekerouppe	13.0	X	32.58497	163.61902	184.19962	1.90506	0.0799068	0.20067719	2.8893758	20	11 27.9	16.7
11104 Airion	12.9	X	354.77325	108.69043	241.68843	11.49688	0.1097803	0.19551456	2.9400179	20	10 4.9	16.7
11105 Puchnarová	14.3	X	194.36142	97.71604	273.55877	4.68351	0.2656588	0.22092379	2.7100318	20	3 30.3	19.3
11106 1995 UK_3	12.7	X	331.91235	214.37234	248.20583	14.34370	0.0979391	0.20319579	2.8654505	20	—	—
11107 Hakkoda	12.8	X	305.03480	134.52985	230.06678	9.63193	0.1116727	0.18947442	3.0021726	20	8 1.0	16.7
11108 Hachimantai	13.3	X	296.04759	108.01421	239.11558	9.46447	0.1184107	0.18789789	3.0189421	20	6 26.5	17.3
11109 Iwatesan	13.6	X	91.42847	4.68990	316.38487	1.10260	0.0618346	0.20209661	2.8758310	20	—	—
11110 1995 VT_1	12.2	X	141.51870	148.51732	242.51222	8.79637	0.1274292	0.17484274	3.1674102	20	3 5.0	17.2
11111 Repunit	13.5	X	19.11752	232.25604	107.53037	3.39144	0.0972658	0.19524042	2.9427694	20	11 1.6	17.2
11112 Cagnoli	13.9	X	309.04488	170.82383	228.33889	15.20209	0.2244767	0.19578914	2.9372685	20	9 8.6	17.3
11113 1995 WW_3	13.4	X	100.13100	107.05027	286.31153	15.97731	0.1835435	0.20956389	2.8071035	20	1 26.8	17.2
11114 1995 WV_5	13.7	X	290.99906	70.78688	238.74336	9.89351	0.0404652	0.18162889	3.0880152	20	5 13.2	17.8
11115 Kariya	14.0	X	176.32366	27.14329	39.18299	6.05745	0.1480667	0.18083461	3.0970509	20	5 22.8	19.0
11116 1996 *EK*	14.2	X	123.32456	76.90965	149.85415	7.74431	0.2273326	0.30297424	2.1954939	20	11 5.6	17.9
11117 1996 LP_1	15.0	X	40.56229	247.14079	137.79009	7.14159	0.1823370	0.30347538	2.1930763	20	—	—
11118 Modra	14.3	X	58.99984	205.07002	7.43626	3.03187	0.0830330	0.27992148	2.3144363	20	7 16.9	16.9
11119 Taro	13.5	X	78.04411	137.93729	205.45763	4.13040	0.0955116	0.25823809	2.4422447	20	—	—
11120 Pancaldi	14.5	X	55.24972	322.93203	238.25408	3.10601	0.0846301	0.28377819	2.2934188	20	6 23.2	16.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
11121 Malpighi	15.3	X	117.08774	131.68768	178.90105	3.44417	0.1490469	0.30096153	2.2052714	20	—	—
11122 Eliscolombini	14.3	X	291.25011	241.31701	313.50207	1.55741	0.1464841	0.26341303	2.4101526	20	—	—
11123 Aliciaclaire	13.9	X	310.20023	193.86663	1.95947	1.65391	0.1190405	0.22570147	2.6716514	20	—	—
11124 Mikulášek	14.5	X	352.92820	188.83538	135.92422	4.33432	0.1960881	0.28671243	2.2777447	20	9 30.5	16.0
11125 1996 TL_{10}	14.9	X	3.13572	45.25546	320.50856	4.76708	0.1816110	0.29099421	2.2553458	20	12 19.8	17.2
11126 Doleček	14.1	X	207.71535	268.72240	84.78499	9.86159	0.1432503	0.22249572	2.6972525	20	3 28.7	18.6
11127 Hagi	14.1	X	28.16825	307.14947	85.44928	5.66142	0.1599399	0.29627122	2.2284851	20	—	—
11128 Ostravia	14.3	X	225.79592	198.18849	51.66352	2.97912	0.1680195	0.26235869	2.4166054	20	—	—
11129 Hayachine	13.0	X	98.81892	1.10602	235.48360	14.01691	0.0562201	0.24047742	2.5610605	20	9 28.8	16.8
11130 1996 VA_{30}	14.6	X	136.71429	162.51881	216.13708	12.86223	0.1569315	0.26455372	2.4032196	20	2 7.3	18.3
11131 1996 VO_{30}	13.9	X	354.44596	129.80206	248.01477	3.43304	0.1915717	0.28945675	2.2633251	20	12 24.1	16.0
11132 Horne	12.7	X	335.83017	296.98169	236.85958	4.20334	0.1121357	0.17690322	3.1427673	20	1 15.2	16.8
11133 Kumotori	13.6	X	223.99650	158.82266	83.09371	10.68803	0.0554727	0.21291052	2.7776102	20	—	—
11134 České Budějovice	14.2	X	10.15582	126.43124	179.75546	1.88389	0.0243972	0.19827389	2.9126773	20	8 28.2	18.2
11135 Ryokami	13.7	X	113.53627	120.70625	127.96161	1.66929	0.1063839	0.19839575	2.9114844	20	11 2.2	18.1
11136 Shirleymarinus	14.0	X	207.60568	266.85046	87.94530	7.53097	0.1514285	0.26973160	2.3723649	20	3 25.9	17.8
11137 Yarigatake	13.3	X	287.85697	160.99649	178.68221	3.85918	0.2331218	0.19149475	2.9810194	20	5 20.1	17.5
11138 Hotakadake	14.1	X	341.08958	67.17102	279.87650	7.92793	0.1662127	0.23825731	2.5769455	20	9 15.9	16.8
11139 1996 YF_2	13.6	X	23.06470	84.37178	287.68618	4.72907	0.2222724	0.24615232	2.5215452	20	—	—
11140 Yakedake	12.7	X	231.81326	253.03734	114.02321	12.02296	0.1498824	0.18441984	3.0567808	20	5 7.6	17.7
11141 Jindrawalter	14.1	X	331.06901	210.65650	113.63629	13.04991	0.3286877	0.23548604	2.5971235	20	7 4.4	15.5
11142 Facchini	13.7	X	17.07529	195.15567	94.96806	10.74951	0.0611014	0.19053006	2.9910732	20	8 22.9	17.7
11143 1997 BF_7	13.7	X	187.49708	117.42596	335.44499	0.71194	0.0618542	0.18609018	3.0384616	20	7 7.8	18.3
11144 Radiocommunicata	14.2	X	316.57769	269.49991	136.63999	3.25947	0.0678661	0.19719709	2.9232708	20	10 23.7	17.9
11145 Emanuelli	13.8	X	42.27823	350.14324	277.04595	5.11849	0.1411670	0.30091852	2.2054816	20	9 19.8	16.3
11146 Kirigamine	12.9	X	84.86744	166.37561	82.25382	3.19549	0.0172786	0.20647050	2.8350717	20	9 23.4	16.8
11147 Delmas	12.8	X	79.70762	261.56577	101.26240	7.40376	0.1434799	0.17863090	3.1224703	20	—	—
11148 Einhardress	14.3	X	262.76419	81.02735	97.42865	3.87938	0.1164791	0.25738548	2.4476352	20	—	—
11149 Tateshina	14.1	X	291.01870	211.35815	258.87667	5.05013	0.0580119	0.25835490	2.4415086	20	12 24.6	16.9
11150 Bragg	14.4	X	254.96173	53.83816	62.06593	2.93999	0.1474711	0.25751760	2.4467979	20	10 26.4	17.3
11151 Oodaigahara	12.4	X	145.68131	164.95655	270.06711	12.16632	0.1202073	0.23480694	2.6021286	20	4 29.1	16.6
11152 Oomine	14.4	X	27.69923	61.27558	323.19925	3.58472	0.2390488	0.30439910	2.1886374	20	—	—
11153 1997 YB_{10}	13.6	X	333.96572	118.98840	312.75557	6.84696	0.2095267	0.21378975	2.7699895	20	—	—
11154 Kobushi	13.6	X	312.19061	319.29643	329.49084	5.14608	0.1090403	0.27956081	2.3164265	20	4 29.3	16.3
11155 Kinpu	13.6	X	127.92600	267.04900	258.47541	5.42881	0.1150793	0.28436035	2.2902876	20	8 10.9	16.9
11156 Al–Khwarismi	13.9	X	296.52349	46.35118	330.40681	1.13563	0.0747690	0.19988070	2.8970466	20	8 14.2	17.6
11157 1998 AJ	13.2	X	65.68685	305.62977	118.39201	4.10945	0.1816833	0.18020410	3.1042708	20	1 24.3	16.8
11158 Cirou	14.2	X	64.81406	43.51243	2.62265	2.87118	0.0600240	0.30304646	2.1951452	20	—	—
11159 Mizugaki	14.9	X	198.43055	287.34421	68.98102	5.45652	0.2296931	0.27644537	2.3337975	20	3 17.7	18.9
11160 1998 BH_7	13.9	X	145.23890	62.44175	183.26022	1.37323	0.0846322	0.29567570	2.2314764	20	12 18.6	16.8
11161 Daibosatsu	14.2	X	64.89476	78.15176	78.42596	3.03365	0.0117619	0.27514789	2.3411285	20	4 22.9	16.9
11162 1998 BG_8	13.7	X	294.20262	306.41615	84.79432	3.53234	0.1520550	0.24556054	2.5255947	20	8 27.7	16.4
11163 Milešovka	12.8	X	176.21577	227.87692	162.71796	10.67882	0.1488000	0.18586276	3.0409397	20	4 12.9	17.8
11164 1998 DW_2	13.9	X	37.33207	136.07562	252.63845	3.36681	0.0817158	0.21066967	2.7972721	20	—	—
11165 1998 DE_5	13.8	X	3.46503	327.75317	12.35516	4.75601	0.1857755	0.24637609	2.5200182	20	10 30.2	16.2
11166 Anatolefrance	13.6	X	234.16113	200.36104	148.61373	6.37254	0.1696759	0.27270399	2.3550948	20	4 9.9	17.3
11167 Kunžak	14.8	X	264.49911	273.19324	148.74073	5.00363	0.1319789	0.28267653	2.2993736	20	8 31.1	17.1
11168 1998 FO_{15}	14.4	X	351.24330	146.75684	358.71004	2.44002	0.1160896	0.26139153	2.4225628	20	—	—
11169 Alkon	14.6	X	136.34141	138.37676	189.52465	3.77630	0.1908219	0.25594439	2.4568142	20	—	—
11170 1998 FY_{34}	13.6	X	349.34546	186.36781	216.98837	1.25221	0.0712891	0.20480722	2.8504004	20	12 8.1	17.0
11171 1998 FB_{42}	13.6	X	302.11748	138.73133	187.10645	15.81554	0.2872463	0.23066582	2.6331800	20	5 13.3	17.0
11172 1998 FT_{54}	13.4	X	357.52133	290.53745	184.31325	16.17714	0.1636331	0.21527595	2.7572261	20	—	—
11173 Jayanderson	14.8	X	120.43842	281.83678	74.73209	2.48098	0.1439252	0.25751931	2.4467871	20	—	—
11174 Carandrews	14.7	X	203.09884	179.00105	86.90812	3.06240	0.0937603	0.29962400	2.2118295	20	—	—
11175 1998 FY_{67}	13.0	X	237.38653	79.03970	180.36892	8.74235	0.0984214	0.12476471	3.9665068	20	1 12.8	19.0
11176 Batth	14.3	X	56.12657	118.00950	114.80288	0.81768	0.0784711	0.18894574	3.0077701	20	8 1.5	18.2
11177 1998 FH_{77}	12.9	X	182.06377	285.64162	138.67776	10.85866	0.0386020	0.18455845	3.0552501	20	5 29.1	17.5
11178 1998 FR_{101}	14.1	X	211.54345	70.45023	204.80028	12.10956	0.1422266	0.21319989	2.7750964	20	—	—
11179 1998 FB_{109}	13.8	X	237.12625	134.37025	330.73125	5.48231	0.0835692	0.24224039	2.5486196	20	9 21.9	17.2
11180 1998 FU_{117}	13.8	X	165.97505	34.76324	335.06240	4.70547	0.0833963	0.21832224	2.7315179	20	3 1.0	17.9
11181 1998 FG_{118}	12.3	X	75.51461	249.57065	296.03883	3.97323	0.0461530	0.18534329	3.0466190	20	6 21.7	16.4
11182 1998 GM_6	13.2	X	63.21325	12.03108	101.71170	12.34448	0.0058088	0.22071554	2.7117362	20	3 1.4	17.0
11183 1998 GB_7	12.9	X	301.39072	232.84409	104.70001	15.14732	0.1007041	0.23217854	2.6217302	20	6 27.1	16.1
11184 Postma	12.7	X	293.94102	204.69655	166.76632	12.69490	0.1599397	0.18669370	3.0319097	20	7 18.9	16.8
11185 1998 HS_{100}	13.4	X	160.19673	297.81855	162.35150	2.88989	0.0756372	0.18391023	3.0624250	20	6 16.9	18.1
11186 1998 HC_{120}	13.4	X	284.12427	289.56984	146.16264	13.78820	0.1575542	0.24242635	2.5473160	20	10 16.1	16.4
11187 Richoliver	14.1	X	68.02654	151.13598	130.92706	3.86187	0.1313963	0.23649340	2.5897432	20	11 4.7	17.8
11188 1998 KD_{50}	12.3	X	113.40774	146.98013	183.07733	11.49445	0.0837709	0.15858115	3.3804019	20	—	—
11189 Rabeaton	14.2	X	55.67365	5.68590	9.75082	7.37650	0.1355776	0.28239854	2.3008824	20	—	—
11190 Jennibell	14.9	X	98.74638	307.96139	36.34072	5.63245	0.1578834	0.28399106	2.2922727	20	—	—
11191 Paskvić	12.8	X	351.84191	221.90635	38.52312	2.15404	0.0762053	0.20047667	2.8913022	20	6 1.4	16.2
11192 1998 XX_{49}	13.3	X	28.51770	127.56691	338.87951	8.19028	0.1256547	0.23440706	2.6050871	20	—	—
11193 Mérida	12.8	X	277.24331	348.31183	115.38022	2.42598	0.1554541	0.17277521	3.1926288	20	10 23.7	16.9
11194 Mirna	13.9	X	44.75499	324.64728	240.52026	4.31828	0.0728910	0.28907451	2.2653198	20	6 10.2	16.0
11195 Woomera	14.2	X	26.24518	202.69497	292.00482	3.05737	0.1140990	0.27826805	2.3235953	20	1 23.3	16.1
11196 Michanikos	13.0	X	3.33322	148.34054	231.60846	4.58880	0.0725037	0.21626359	2.7488251	20	12 1.4	16.4
11197 Beranek	14.4	X	75.95468	173.56218	101.75808	3.09576	0.1552120	0.25698392	2.4501843	20	11 10.5	17.9
11198 1999 CV_{40}	13.3	X	47.51614	97.06167	42.20114	10.86601	0.0532168	0.19067141	2.9895948	20	3 21.2	17.4
11199 1999 CC_{82}	13.0	X	86.91643	0.60126	314.54310	8.62899	0.1440356	0.21456365	2.7633249	20	12 30.9	17.3
11200 1999 CV_{121}	12.2	X	134.03140	215.73545	50.78026	18.83446	0.2147252	0.21761956	2.7373948	20	12 14.3	17.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
11201 Talich	14.3	X	291.22270	118.38382	286.37562	0.92641	0.0626921	0.20595686	2.8397834	20	9 14.7	18.0
11202 Teddunham	12.7	X	34.39496	53.91674	328.38338	2.78903	0.1115874	0.21752250	2.7382090	20	—	—
11203 Danielbetten	14.4	X	285.32816	222.79241	75.22736	4.26420	0.1350023	0.28162981	2.3050675	20	4 3.0	17.2
11204 1999 FQ_{28}	13.2	X	332.63578	106.32543	42.34942	1.65836	0.1401518	0.17792544	3.1307185	20	—	—
11205 1999 FY_{28}	12.5	X	350.47439	49.87226	26.28947	7.43324	0.1681135	0.17216114	3.2002161	20	—	—
11206 Bibee	14.2	X	20.91353	75.01721	59.43104	7.45389	0.1576709	0.22990942	2.6389523	20	1 25.3	16.9
11207 Black	14.5	X	295.11867	340.39881	197.54719	6.79734	0.0670542	0.27072739	2.3665440	20	—	—
11208 1999 GT_{16}	13.0	X	126.08047	59.54277	22.44212	10.93524	0.0904430	0.19068264	2.9894774	20	4 17.8	17.4
11209 1999 GP_{18}	12.9	X	333.46767	152.26807	104.65351	11.56546	0.0512092	0.19063950	2.9899285	20	5 6.4	17.0
11210 1999 GP_{22}	14.2	X	119.19468	346.00710	263.75060	2.54107	0.1531983	0.25484594	2.4638688	20	11 19.0	18.0
11211 1999 GD_{24}	13.7	X	305.02513	73.12890	243.06462	5.41618	0.1645932	0.28688995	2.2768050	20	5 21.9	15.7
11212 Tebbutt	14.8	X	53.24975	132.15419	79.50465	3.12633	0.1340650	0.28626782	2.2801025	20	7 15.4	17.2
11213 1999 HF_{8}	12.8	X	257.58970	353.73099	196.88008	8.90017	0.1125785	0.22014197	2.7164444	20	—	—
11214 1999 HP_{8}	13.8	X	10.70552	137.83253	340.79259	10.28121	0.1626653	0.27301272	2.3533190	20	—	—
11215 1999 HN_{10}	13.1	X	249.81835	108.39216	256.62548	0.63789	0.1050199	0.19230142	2.9726770	20	5 23.8	17.3
11216 Billhubbard	14.6	X	236.90889	272.78017	131.58367	2.07396	0.1591244	0.29075962	2.2565588	20	6 24.9	17.6
11217 1999 JC_{4}	15.1	X	208.11082	69.84450	224.64238	19.29083	0.0695188	0.36361594	1.9440500	20	—	—
11218 1999 JD_{20}	13.2	X	351.26645	333.27813	248.82001	4.13350	0.1256873	0.18620596	3.0372020	20	4 5.9	16.8
11219 Benbohn	14.6	X	298.60121	190.03674	17.52596	0.62904	0.1460777	0.27161367	2.3613932	20	—	—
11220 1999 JM_{25}	13.7	X	328.99263	103.55356	249.28192	6.27619	0.2008442	0.29095795	2.2555332	20	9 11.5	15.2
11221 1999 JO_{26}	11.9	X	154.06537	263.88971	49.56480	12.54269	0.1110899	0.17056860	3.2201047	20	—	—
11222 1999 JR_{27}	13.0	X	248.67396	156.53905	213.15018	9.78340	0.1167798	0.19092590	2.9869376	20	5 27.7	17.5
11223 1999 JC_{30}	12.8	X	282.54000	265.31137	43.97065	3.83313	0.0995114	0.18749671	3.0232469	20	4 23.7	16.9
11224 1999 JP_{32}	13.3	X	359.42270	203.45464	117.90033	3.08995	0.0595200	0.19871872	2.9083289	20	9 5.9	17.0
11225 Borden	14.5	X	133.40098	208.35718	175.13090	4.24354	0.1099253	0.27087357	2.3656925	20	2 6.7	17.6
11226 1999 JO_{36}	12.6	X	315.43415	63.66610	214.01885	9.49891	0.0531559	0.18758863	3.0222591	20	5 3.8	16.5
11227 Ksenborisova	13.9	X	150.10433	197.71984	296.72099	3.60798	0.0254688	0.28795810	2.2711711	20	7 23.2	16.5
11228 Botnick	14.9	X	205.29653	297.89926	124.49585	3.64416	0.1451601	0.28562452	2.2835247	20	6 16.3	18.3
11229 Brookebowers	14.4	X	356.96519	260.21389	95.03966	3.62850	0.1522919	0.29416224	2.2391238	20	11 20.7	16.4
11230 1999 JV_{57}	13.5	X	80.87532	338.59268	31.36993	6.49579	0.1380280	0.30662965	2.1780104	20	—	—
11231 1999 JF_{59}	13.6	X	209.78790	302.75967	127.13747	4.95802	0.1244113	0.28634664	2.2796840	20	7 2.7	16.7
11232 1999 JA_{77}	12.4	X	227.59200	157.25382	91.12701	11.29773	0.0705047	0.17295706	3.1903906	20	—	—
11233 1999 JA_{82}	12.8	X	227.04847	220.24215	106.32180	14.38983	0.1786629	0.22870995	2.6481709	20	3 12.2	17.4
11234 1999 JS_{82}	12.7	X	101.93949	292.15252	112.66144	12.77581	0.0496562	0.22454521	2.6808150	20	1 24.9	16.1
11235 1999 JP_{91}	12.9	X	254.83816	245.59593	117.98571	12.00574	0.1308131	0.19022744	2.9942446	20	5 27.5	17.5
11236 1999 KX_{14}	14.2	X	139.83749	226.89965	93.47335	3.36893	0.2075367	0.25883115	2.4385127	20	—	—
11237 1999 KE_{15}	13.3	X	110.85938	8.64943	179.73490	4.16910	0.0416217	0.24088090	2.5581999	20	8 12.2	16.7
11238 Johanmaurits	14.8	X	131.62160	243.25583	349.84084	3.87830	0.0659262	0.29739358	2.2228747	20	11 15.9	17.9
11239 Marcgraf	13.8	X	210.45653	233.13448	215.79089	4.36516	0.1778523	0.24372896	2.5382318	20	7 21.8	17.8
11240 Piso	15.2	X	193.92625	282.92682	200.39412	4.35444	0.1096093	0.29451693	2.2373257	20	8 28.2	18.4
11241 Eckhout	13.6	X	33.53321	207.40075	102.77143	3.31281	0.0562067	0.19780809	2.9172480	20	10 10.1	17.4
11242 Franspost	15.5	X	58.96081	75.02924	161.19700	6.44608	0.0588958	0.28647184	2.2790198	20	8 16.1	18.2
11243 de Graauw	13.5	X	337.26050	248.42446	163.01210	3.69109	0.1170774	0.21258017	2.7804870	20	12 5.9	16.7
11244 Andrékuipers	14.4	X	83.31429	323.89624	95.86783	3.64657	0.1726164	0.26074552	2.4265625	20	1 30.1	16.9
11245 Hansderijk	14.9	X	226.61434	82.93235	151.02671	2.96333	0.1212060	0.25979394	2.4324843	20	—	—
11246 Orvillewright	14.6	X	40.75377	230.16316	143.20513	3.56906	0.1858834	0.25658002	2.4527549	20	—	—
11247 Wilburwright	13.4	X	142.58437	195.13628	150.84045	5.03835	0.1697090	0.17054242	3.2204342	20	1 21.7	18.6
11248 Blériot	14.7	X	74.42180	251.55705	132.55073	4.02217	0.0722141	0.30546048	2.1835645	20	—	—
11249 Etna	12.1	X	343.65875	297.69900	3.90316	14.41815	0.1959636	0.12474943	3.9668307	20	7 8.2	16.9
11250 1972 AU	12.7	X	315.44659	9.83387	341.79808	12.54068	0.1724113	0.23560497	2.5962494	20	8 6.1	15.4
11251 Icarion	12.0	X	112.87747	147.80720	101.99482	4.20300	0.0018920	0.08398138	5.1643307	20	10 8.7	18.8
11252 Laërtes	10.6	X	305.90616	326.22484	78.31385	5.85744	0.0310325	0.08458177	5.1398630	20	9 23.0	17.3
11253 Mesyats	14.7	X	50.06592	349.52292	26.27931	5.02810	0.2016931	0.29634488	2.2281158	20	—	—
11254 Konkohekisui	14.3	X	123.98180	314.05032	140.77616	5.59824	0.1813988	0.25576338	2.4579732	20	5 12.2	18.0
11255 Fujiiekio	13.4	X	342.94018	29.45382	94.46257	2.55099	0.1483845	0.18031161	3.1030368	20	—	—
11256 Fuglesang	15.3	X	151.68005	347.09532	269.06323	1.22333	0.1778592	0.26536865	2.3982970	20	12 27.4	18.9
11257 Rodionta	14.6	X	279.17089	246.82469	159.88310	4.30763	0.1523374	0.27985774	2.3147877	20	8 27.7	17.1
11258 Aoyama	13.6	X	207.29209	168.35179	244.10779	5.63748	0.1320929	0.17931765	3.1144929	20	6 4.9	18.5
11259 Yingtungchen	14.7	X	226.54724	208.89400	306.54881	1.38891	0.0099985	0.23447699	2.6045692	20	11 24.3	18.2
11260 Camargo	14.6	X	257.71036	341.00747	34.39493	1.28283	0.0808891	0.27502656	2.3418170	20	6 20.9	17.3
11261 Krisbecker	13.3	X	244.41020	229.46208	139.26336	2.48610	0.1194419	0.20377491	2.8600190	20	5 21.3	17.4
11262 Drube	15.1	X	232.92165	182.79018	222.43590	2.97064	0.1489623	0.28687422	2.2768882	20	6 22.5	18.2
11263 Pesonen	13.8	X	103.57521	341.85879	297.67045	25.20383	0.3804337	0.19959820	2.8997794	20	12 14.9	19.5
11264 Claudiomaccone	14.2	X	258.37410	58.91751	10.78028	3.51379	0.2311805	0.23769565	2.5810033	20	8 12.9	17.7
11265 Hasselmann	15.7	X	294.49963	33.76275	117.19642	1.28451	0.1304484	0.27076848	2.3663046	20	—	—
11266 Macke	13.8	X	290.30810	121.43510	5.55176	1.86278	0.2442322	0.16924617	3.2368567	20	11 27.1	17.3
11267 Donaldkessler	13.9	X	155.41254	355.43444	341.86547	3.91920	0.0762096	0.21212744	2.7844418	20	1 11.1	18.0
11268 Spassky	13.8	X	57.79482	225.06627	205.13576	4.11923	0.2015138	0.26252916	2.4155592	20	—	—
11269 Knyr	14.2	X	39.89599	221.50096	120.52441	4.31218	0.1899156	0.30447908	2.1882541	20	—	—
11270 1988 EA_{2}	14.4	X	176.88463	25.34605	156.42840	3.69650	0.0637705	0.29049733	2.2579169	20	11 2.5	17.3
11271 1988 KB	13.1	X	312.59401	145.81364	88.81461	25.65792	0.2384544	0.27218983	2.3580596	20	1 28.4	16.5
11272 1988 RK	13.9	X	127.36497	194.01795	176.25410	12.64765	0.1852278	0.26068848	2.4269165	20	1 23.8	17.4
11273 1988 RN_{11}	11.6	X	335.74195	56.49065	171.62581	1.41988	0.0955938	0.08317721	5.1975636	20	4 2.9	18.0
11274 Castillo–Rogez	13.8	X	301.53212	53.16115	10.63554	2.30097	0.2114496	0.12487227	3.9642287	20	9 22.3	18.7
11275 1988 SL_{3}	11.6	X	258.10425	217.36490	122.58119	25.15810	0.0900720	0.08327898	5.1933282	20	5 15.6	18.9
11276 1988 TM_{1}	14.4	X	126.36915	193.96195	213.21289	1.80890	0.1898235	0.26188253	2.4195338	20	3 11.8	17.9
11277 Ballard	13.1	X	233.88658	43.66837	254.58614	22.78616	0.2389150	0.26463775	2.4027109	20	1 25.0	17.6
11278 Telesio	14.9	X	17.60928	341.14475	41.77234	4.95377	0.1553238	0.29139426	2.2532812	20	—	—
11279 1989 TC	14.6	X	307.06667	11.68809	2.18812	23.84863	0.0449334	0.38141813	1.8830788	20	9 27.9	16.0
11280 Sakurai	14.7	X	342.55612	180.56560	197.65328	4.92226	0.2223887	0.28787744	2.2715953	20	12 7.2	16.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
11281 1989 UM_1	14.6	X	15.57329	307.13629	55.49449	3.05901	0.1929660	0.28912665	2.2650474	20	—	—
11282 Hanakusa	14.0	X	91.56444	281.13817	62.55841	3.56852	0.2134896	0.26240883	2.4162976	20	—	—
11283 1989 UX_4	14.5	X	344.21049	210.65482	144.56073	3.27028	0.1865800	0.28615831	2.2806842	20	10 29.4	16.1
11284 Belenus	18.2	X	77.55354	171.00297	311.75258	1.99294	0.3374610	0.42940215	1.7400427	20	5 10.7	19.1
11285 1990 QU_3	14.2	X	269.82811	198.00279	88.54166	2.23782	0.1236448	0.28624026	2.2802488	20	2 28.3	17.3
11286 1990 RO_8	14.6	X	276.78407	324.72430	159.22361	3.19776	0.1365411	0.26935424	2.3745802	20	12 17.8	16.8
11287 1990 SX	12.7	X	131.06745	19.49937	335.91861	11.21235	0.1847131	0.17798433	3.1300279	20	1 25.1	17.6
11288 Okunohosomichi	12.6	X	304.85784	262.57543	131.82603	10.78612	0.1107900	0.18989762	2.9977106	20	9 17.1	16.4
11289 Frescobaldi	13.5	X	337.05798	349.53590	96.92174	2.83863	0.1562020	0.18103968	3.0947117	20	—	—
11290 1991 RA_1	13.7	X	7.84910	49.91919	323.01102	11.80813	0.2027624	0.24209098	2.5496680	20	12 26.2	16.8
11291 1991 RZ_{10}	13.8	X	48.09870	241.17856	82.07485	2.48748	0.2464469	0.17265354	3.1941286	20	12 3.8	18.4
11292 Bunjisuzuki	13.4	X	329.76569	53.03839	155.32605	12.80574	0.0790446	0.19040690	2.9923629	20	2 21.0	17.1
11293 1991 XL	14.2	X	142.30923	225.10150	78.06968	5.14293	0.1391616	0.27982676	2.3149585	20	—	—
11294 Kazu	14.4	X	96.64513	303.37699	138.71821	6.32067	0.1531081	0.28367245	2.2939887	20	3 16.8	17.0
11295 Gustaflarsson	12.9	X	197.56090	260.77936	46.91585	1.66654	0.1878674	0.17180022	3.2046965	20	1 26.1	18.2
11296 Denzen	13.4	X	263.62296	176.31824	206.14668	5.11286	0.0867515	0.25096597	2.4891983	20	7 6.7	16.7
11297 1992 PP_6	14.1	X	275.54386	218.10065	131.02790	8.98152	0.0656991	0.27780344	2.3261853	20	6 12.1	17.0
11298 Gide	13.9	X	160.41313	356.09326	75.85977	3.22641	0.0488168	0.20092119	2.8870361	20	5 11.5	17.9
11299 Annafreud	13.8	X	121.40911	239.68885	29.46539	4.40591	0.0488272	0.21789181	2.7351141	20	12 4.5	17.8
11300 1992 WG_2	14.3	X	28.45614	172.75014	273.27202	1.05211	0.1548217	0.25557298	2.4591938	20	—	—
11301 1992 XM	12.5	X	137.58438	137.50531	251.87234	9.00846	0.1171089	0.18995849	2.9970702	20	2 25.5	17.2
11302 Rubicon	13.4	X	155.39489	187.21789	96.25938	1.83741	0.0632085	0.21015615	2.8018270	20	—	—
11303 1993 CA_1	12.8	X	115.02606	186.59775	321.34361	13.70077	0.1064773	0.22855144	2.6493952	20	7 3.6	16.8
11304 Cowra	14.1	X	359.69138	75.17401	141.48729	23.56720	0.0465407	0.36787514	1.9290157	20	4 11.8	16.4
11305 Ahlqvist	14.2	X	76.68042	302.34504	61.38333	3.36152	0.0855568	0.27979328	2.3151432	20	—	—
11306 Åkesson	13.6	X	310.82513	159.76575	113.69082	5.87465	0.1426092	0.18365844	3.0652233	20	4 12.3	17.6
11307 Erikolsson	13.3	X	142.51234	29.61164	19.35075	4.69241	0.1047260	0.25518731	2.4616709	20	3 24.4	16.6
11308 Tofta	14.5	X	64.00166	128.67227	234.62870	1.20757	0.0052602	0.20493240	2.8492396	20	—	—
11309 Malus	13.0	X	37.30185	244.68704	157.17615	6.97291	0.1102632	0.19336310	2.9617858	20	—	—
11310 1993 SB_{15}	13.1	X	342.89438	296.74364	126.41444	13.36383	0.1638089	0.22406351	2.6846558	20	—	—
11311 Peleus	15.9	X	234.60506	313.38946	59.35307	25.49102	0.5358470	0.32011545	2.1164026	20	4 25.8	20.5
11312 1994 AR_2	14.3	X	325.80787	199.92412	57.42642	0.94405	0.1765037	0.27085672	2.3657906	20	3 28.9	16.7
11313 Kügelgen	14.2	X	78.71603	332.24450	100.58746	1.15795	0.0424376	0.26112373	2.4242189	20	1 22.2	16.8
11314 Charcot	12.6	X	236.72153	303.24339	132.45584	11.49035	0.1831992	0.18925658	3.0044759	20	7 28.6	17.3
11315 Salpêtrière	14.6	X	7.56112	116.39125	239.84281	1.64630	0.0980027	0.27268745	2.3551900	20	11 24.2	17.2
11316 Fuchitatsuo	14.3	X	345.56546	301.60122	78.60812	3.21907	0.2257604	0.26721605	2.3872305	20	12 8.4	16.0
11317 Hitoshi	13.6	X	247.90311	324.75591	351.09917	0.78823	0.1883188	0.17581360	3.1557389	20	3 15.4	18.6
11318 1994 XZ_4	16.8	X	32.54181	343.41093	65.48089	9.87970	0.4310144	0.23541944	2.5976133	20	—	—
11319 1995 AZ	14.5	X	145.57948	328.19810	262.23929	0.72060	0.1203661	0.25845459	2.4408807	20	11 20.9	18.1
11320 1995 BY	13.7	X	102.36039	4.90988	35.69132	2.60236	0.0839347	0.19687247	2.9264833	20	1 29.9	17.7
11321 Tosimatumoto	12.8	X	179.63712	305.43378	350.10056	9.54338	0.0830876	0.18780717	3.0199142	20	—	—
11322 Aquamarine	14.2	X	158.92983	191.52872	162.08581	10.04476	0.1893793	0.21925981	2.7237256	20	2 10.0	18.7
11323 Nasu	13.4	X	352.03929	329.44985	338.44001	15.65549	0.1746804	0.23578476	2.5949295	20	8 18.0	15.8
11324 Hayamizu	14.2	X	0.10214	231.79086	134.07151	5.65056	0.1501240	0.24135958	2.5548164	20	11 25.9	17.1
11325 Slavický	15.4	X	1.29551	167.53518	236.09236	1.35520	0.1347225	0.24333182	2.5409929	20	—	—
11326 Ladislavschmied	14.3	X	119.69876	87.97541	313.23906	5.70330	0.1278306	0.25632643	2.4543724	20	2 17.6	17.6
11327 1995 SL_2	13.4	X	225.09759	240.36872	161.58856	13.23703	0.1801795	0.22907465	2.6453595	20	6 7.9	17.9
11328 Mariotozzi	13.5	X	186.87149	331.40639	356.76336	4.64934	0.0699292	0.21558152	2.7546200	20	2 2.6	17.5
11329 1995 WJ_2	13.8	X	62.81683	320.62730	75.57144	3.46541	0.1970090	0.20548476	2.8441313	20	—	—
11330 1995 WZ_6	13.2	X	281.79183	336.91934	67.42529	11.13469	0.0866115	0.18916904	3.0054027	20	9 1.5	17.4
11331 1996 FO_2	15.3	X	216.26174	343.18333	155.94457	1.55134	0.1126454	0.26642064	2.3919796	20	10 13.3	18.5
11332 Jameswatt	14.1	X	338.25269	267.70474	197.74300	2.87335	0.1182772	0.23184202	2.6242666	20	—	—
11333 Forman	14.5	X	359.57728	192.70447	174.76331	4.97106	0.2019439	0.26000258	2.4311828	20	12 10.2	17.0
11334 Rio de Janeiro	13.5	X	209.01412	279.30473	44.56896	15.57264	0.1589667	0.23779740	2.5802670	20	2 24.3	18.0
11335 Santiago	14.9	X	296.35358	65.02877	69.47659	6.30640	0.1609646	0.27121961	2.3636799	20	—	—
11336 Piranesi	14.6	X	331.78783	168.19224	136.52460	2.54707	0.0899800	0.24356731	2.5393548	20	7 1.8	17.2
11337 Sandro	15.3	X	342.43373	297.50359	356.41432	3.34863	0.1512513	0.28553503	2.2840018	20	7 6.3	17.0
11338 Schiele	14.8	X	337.15895	215.68609	89.12502	4.87454	0.1860740	0.28014560	2.3132017	20	7 9.7	16.4
11339 Orlík	14.3	X	318.11961	73.25427	88.53899	5.04761	0.0676003	0.25797221	2.4439225	20	—	—
11340 1996 VN_5	13.4	X	69.33721	221.41363	121.55006	3.21569	0.1719418	0.17052071	3.2207076	20	—	—
11341 Babbage	13.5	X	81.49615	50.36434	75.06149	7.35794	0.0566417	0.26821633	2.3812915	20	4 12.5	16.4
11342 1996 XJ_{19}	13.5	X	22.45400	323.06558	211.60758	2.97206	0.0399554	0.22152287	2.7051436	20	3 22.1	16.8
11343 1996 XP_{19}	15.0	X	167.23578	244.99143	158.45468	2.50225	0.2346086	0.26810976	2.3819225	20	4 18.5	19.0
11344 1996 XH_{31}	14.7	X	138.30472	147.70141	271.29612	1.61537	0.1829939	0.26494267	2.4008670	20	4 7.3	18.3
11345 1996 YM	14.7	X	148.75734	300.69256	87.72134	3.53603	0.2098292	0.26359020	2.4090725	20	3 14.7	18.4
11346 1997 AP_{14}	14.8	X	191.58242	248.06333	147.08827	0.98710	0.1636277	0.22424343	2.6832197	20	4 28.8	19.2
11347 1997 AG_{21}	13.7	X	22.23661	211.07015	220.42229	1.13339	0.1577871	0.25177712	2.4838491	20	—	—
11348 Allegra	13.6	X	359.48863	107.43835	324.99735	1.04183	0.0595933	0.20405278	2.8574219	20	—	—
11349 Witten	15.0	X	45.56520	94.43079	202.41212	5.46000	0.1270995	0.26810255	2.3819652	20	10 31.9	17.9
11350 Teresa	13.4	X	148.97002	237.47453	164.32752	2.49329	0.1076718	0.19676705	2.9275285	20	3 26.5	17.8
11351 Leucus	10.7	X	323.58923	160.23293	251.07807	11.55509	0.0643222	0.08095489	5.2922538	20	10 12.5	17.5
11352 Koldewey	12.9	X	112.02709	235.71876	114.26141	2.33082	0.1720459	0.17440405	3.1727194	20	—	—
11353 Guillaume	13.4	X	230.24223	95.81865	235.72109	1.08754	0.1061403	0.19538504	2.9413170	20	3 21.6	18.0
11354 1997 XY_9	14.0	X	143.18142	12.89198	276.96273	1.60535	0.2038124	0.26444848	2.4038572	20	—	—
11355 1997 XL_{11}	13.4	X	101.18142	223.58963	95.33899	7.18035	0.0541336	0.21287358	2.7779316	20	—	—
11356 Chuckjones	13.0	X	88.47270	333.49918	69.21747	12.38294	0.1162953	0.18671180	3.0317138	20	1 21.9	17.2
11357 1997 YX_2	14.7	X	124.97317	122.19317	355.35722	1.22290	0.0584991	0.19208850	2.9748733	20	5 28.2	19.0
11358 1997 YY_5	12.0	X	244.03834	14.75143	311.39639	9.38413	0.0868211	0.18898556	3.0073477	20	3 27.3	16.7
11359 Piteglio	14.2	X	122.94868	280.76628	307.38354	12.27240	0.1950151	0.24467400	2.5316918	20	10 21.3	18.7
11360 Formigine	15.1	X	314.03508	176.39067	15.83598	2.82131	0.1298493	0.26376704	2.4079956	20	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
11361 Orbinskij	13.9	X	233.80602	190.53627	39.23962	6.08904	0.1866512	0.25785327	2.4446740	20	—	—
11362 1998 EN_9	13.7	X	281.69243	247.39324	67.57859	2.76545	0.0698519	0.23125572	2.6287002	20	5 2.8	17.0
11363 Vives	14.1	X	152.27221	320.55808	43.98777	5.31544	0.1558155	0.30946447	2.1646891	20	2 7.4	17.0
11364 Karlštejn	14.5	X	28.37489	192.37545	105.21175	4.10729	0.1544132	0.23511036	2.5998894	20	10 7.9	17.6
11365 NASA	13.9	X	97.20273	178.11953	231.49867	2.86132	0.1422055	0.30547102	2.1835143	20	1 22.5	15.9
11366 1998 GL_9	13.3	X	353.20248	27.18807	129.58160	16.79274	0.1398296	0.21728575	2.7401976	20	1 8.6	16.6
11367 1998 HJ_{115}	13.7	X	329.72099	197.05461	160.76375	14.52040	0.1184153	0.23602889	2.5931399	20	9 14.8	16.4
11368 1998 HN_{115}	13.0	X	211.23004	152.36411	128.34948	10.15228	0.1280616	0.21116943	2.7928569	20	1 1.5	17.6
11369 Brazelton	14.8	X	304.50203	234.78732	227.07066	3.39011	0.1147547	0.27936866	2.3174885	20	—	—
11370 Nabrown	14.9	X	17.47580	291.50168	64.29241	0.43558	0.1037114	0.23072278	2.6327467	20	11 27.9	17.9
11371 Camley	15.2	X	193.03074	334.05612	279.46103	2.07113	0.1221016	0.28700210	2.2762118	20	—	—
11372 1998 QP_{41}	13.8	X	196.78629	324.55847	11.70721	1.96052	0.0734510	0.20560769	2.8429976	20	2 23.3	17.9
11373 Carbonaro	15.2	X	244.97664	297.99625	32.22059	2.04880	0.1281210	0.30168762	2.2017317	20	3 27.2	18.2
11374 Briantaylor	14.4	X	44.72426	106.45922	196.11395	6.89091	0.1372084	0.27514403	2.3411505	20	11 11.1	17.3
11375 1998 QB_{74}	12.3	X	83.37021	102.73940	224.20031	9.71157	0.1021172	0.18977767	2.9989736	20	12 30.5	16.9
11376 Taizomuta	14.7	X	13.20240	36.02301	183.39841	1.08326	0.1351954	0.26027548	2.4294831	20	5 10.6	17.0
11377 Nye	13.3	X	171.92997	18.51568	95.43162	2.55371	0.1182537	0.16858764	3.2452805	20	7 16.2	18.4
11378 Dauria	14.5	X	279.12344	254.23690	143.29231	3.44315	0.1320951	0.26573300	2.3961043	20	8 15.4	17.2
11379 Flaubert	14.2	X	68.84170	221.19296	82.77016	4.27431	0.2197037	0.22962267	2.6411488	20	12 9.4	18.2
11380 1998 SK_{100}	14.2	X	330.59668	20.04577	305.63947	4.37659	0.0578285	0.26359595	2.4090375	20	8 3.9	16.8
11381 1998 SZ_{115}	13.2	X	48.88246	15.94923	225.32881	4.66408	0.1121213	0.17194500	3.2028973	20	8 4.1	17.5
11382 1998 SW_{127}	15.0	X	268.32515	193.94330	148.29479	3.78681	0.1565623	0.30402571	2.1904290	20	5 8.1	17.8
11383 1998 SD_{128}	13.4	X	192.11259	341.39359	113.21600	3.02123	0.1089241	0.21413707	2.7669935	20	7 14.4	17.6
11384 Sartre	15.7	X	310.90293	184.06857	174.19030	2.68469	0.1850746	0.26487107	2.4012997	20	8 4.5	17.8
11385 Beauvoir	13.2	X	160.00145	147.75234	112.75396	2.77032	0.0728579	0.18695094	3.0291279	20	12 29.1	17.7
11386 1998 TA_{18}	13.7	X	12.48018	97.24914	261.36237	6.86454	0.2765361	0.27353608	2.3503163	20	—	—
11387 1998 UA_{37}	13.7	X	67.99239	291.62678	6.50026	2.20724	0.2295507	0.22876176	2.6477711	20	12 2.1	17.8
11388 1998 VU_4	11.2	X	203.20514	278.64970	217.23803	8.20754	0.1191979	0.12628399	3.9346296	20	9 4.1	17.3
11389 1998 VV_5	12.9	X	294.52911	1.72931	70.78413	6.60126	0.1130714	0.17572001	3.1568593	20	10 17.4	17.0
11390 1998 VG_{15}	13.3	X	42.27803	1.34574	328.67218	0.47286	0.1632729	0.18118168	3.0930945	20	11 25.4	17.6
11391 1998 VA_{35}	14.8	X	51.45869	354.61221	359.64911	2.51405	0.1576119	0.27505506	2.3416553	20	—	—
11392 Paulpeeters	14.0	X	315.33439	342.63881	114.50826	6.25349	0.0191946	0.21941434	2.7224466	20	12 31.0	17.5
11393 1998 XJ_{53}	12.9	X	211.48756	179.87205	72.17971	2.79122	0.0917710	0.18261576	3.0768800	20	—	—
11394 1998 XL_{77}	12.5	X	346.75235	278.34067	102.45914	12.28919	0.1434036	0.17749540	3.1357733	20	11 7.4	16.4
11395 1998 XN_{77}	9.9	X	22.14569	118.82294	213.23297	24.13961	0.0678685	0.08283669	5.2117978	20	9 29.4	16.6
11396 1998 XZ_{77}	10.6	X	343.45170	177.03973	195.66203	12.58054	0.0647113	0.08281949	5.2125195	20	9 27.3	17.3
11397 1998 XX_{93}	10.2	X	332.84830	151.15009	261.21600	20.99447	0.0617830	0.08183735	5.2541405	20	10 24.8	17.1
11398 1998 YP_{11}	16.3	X	128.45530	74.68760	144.78904	15.02585	0.3889742	0.43668826	1.7206335	20	11 16.2	19.6
11399 1999 AR_3	14.4	X	315.76474	222.09088	65.06968	4.07727	0.1542770	0.29017044	2.2596123	20	4 28.4	16.6
11400 Raša	15.2	X	20.66621	91.67971	281.38304	0.23100	0.0827850	0.31121643	2.1565575	20	—	—
11401 Pierralba	13.8	X	340.43123	316.20579	356.00524	4.97317	0.1994082	0.29162183	2.2521088	20	8 5.2	15.0
11402 1999 BD	14.9	X	321.81145	337.13121	351.49367	3.32593	0.1589255	0.29863779	2.2166964	20	7 19.5	16.6
11403 1999 BW	14.6	X	317.41804	124.03234	76.27689	2.06843	0.1207307	0.23368942	2.6104177	20	1 12.6	17.8
11404 Wittig	13.6	X	358.95905	42.84823	16.42703	1.44997	0.1418533	0.17534218	3.1613928	20	—	—
11405 1999 CV_3	15.2	X	339.57417	96.37886	141.28024	22.86336	0.3938078	0.55893499	1.4595821	20	—	—
11406 Ucciocontin	13.7	X	201.01532	43.24605	146.32597	3.75959	0.0633976	0.21369848	2.7707782	20	11 25.6	17.7
11407 1999 CV_{50}	14.3	X	26.63679	217.08778	146.02510	4.80723	0.1803950	0.30959227	2.1640933	20	—	—
11408 Zahradník	13.2	X	225.90049	17.75470	226.51121	0.78261	0.1336844	0.17430113	3.1739683	20	—	—
11409 Horkheimer	12.8	X	248.32120	74.97098	115.91209	2.29831	0.1155488	0.17297895	3.1901215	20	—	—
11410 1999 FU_{34}	11.4	X	163.05625	265.70226	39.30991	5.76371	0.1652624	0.12574109	3.9459469	20	—	—
11411 1999 HK_1	15.2	X	82.54394	82.08233	197.69019	20.71875	0.0691523	0.39415771	1.8422817	20	12 13.9	17.7
11412 1999 JE_{19}	12.7	X	165.74284	1.07125	25.99783	10.19840	0.1006197	0.18446479	3.0562842	20	3 27.9	17.4
11413 Catanach	14.4	X	179.69604	1.94663	31.87194	3.74100	0.1466768	0.27994778	2.3142914	20	4 13.6	17.8
11414 Allanchu	15.3	X	245.83955	237.34371	53.16801	0.90914	0.1203898	0.27314750	2.3525448	20	2 8.5	18.8
11415 1999 JG_{81}	14.2	X	37.16538	163.92733	154.58541	6.50043	0.2007071	0.29044741	2.2581756	20	12 5.5	17.2
11416 1999 JK_{96}	13.2	X	155.86562	198.39144	166.57203	12.74701	0.0533461	0.17739295	3.1369804	20	2 14.3	17.8
11417 Chughtai	15.1	X	147.11157	242.38070	66.73971	5.06471	0.1010416	0.21496011	2.7599262	20	—	—
11418 1999 JN_{118}	13.6	X	74.16550	227.44885	199.30564	5.04204	0.0438903	0.22148619	2.7054423	20	1 14.2	17.1
11419 Donjohnson	12.8	X	157.28451	11.32697	63.21140	11.32536	0.0827541	0.18778651	3.0201356	20	5 13.7	17.3
11420 1999 KR_{14}	13.8	X	72.27791	306.36672	78.56315	5.89154	0.1573050	0.30627673	2.1796832	20	—	—
11421 Cardano	12.8	X	61.18884	357.20403	125.32152	3.18968	0.1555204	0.17494730	3.1661480	20	3 30.0	16.8
11422 Alilienthal	14.1	X	13.34645	62.69861	236.13061	3.18165	0.1216311	0.24224516	2.5485861	20	9 6.9	17.0
11423 Cronin	13.8	X	342.99358	124.94706	251.41519	4.58885	0.1174237	0.24639901	2.5198619	20	11 6.1	16.5
11424 1999 LZ_{24}	12.3	X	86.76293	334.51251	66.94083	12.92872	0.1615545	0.26289876	2.4132947	20	1 7.5	14.9
11425 Wearydunlop	15.4	X	196.25686	346.45551	30.48041	3.24285	0.2285850	0.27027760	2.3691689	20	4 8.2	19.4
11426 Molster	13.4	X	209.41399	212.73434	185.74364	15.14035	0.2821578	0.17595144	3.1540907	20	5 16.8	19.1
11427 Willemkolff	13.0	X	257.72591	131.10038	178.69122	5.47228	0.0959244	0.17532617	3.1615852	20	3 27.4	17.6
11428 Alcinoös	11.1	X	297.37986	55.91772	3.32538	17.30268	0.0135788	0.08013761	5.3281747	20	9 27.6	18.1
11429 Demodokus	10.4	X	239.61693	88.40914	6.23322	17.09030	0.0297840	0.08205273	5.2449419	20	9 5.8	17.4
11430 Lodewijkberg	15.1	X	173.06525	154.15909	102.18050	3.94420	0.1151737	0.30104687	2.2048547	20	—	—
11431 Karelbosscha	14.4	X	283.20319	167.89333	35.69910	5.86555	0.1213885	0.17624503	3.1505869	20	—	—
11432 Kerkhoven	14.4	X	216.47286	284.41406	2.11676	0.70718	0.1401454	0.17745855	3.1362073	20	1 17.2	19.4
11433 Gemmafrisius	14.5	X	293.71692	141.92057	59.63900	3.21105	0.1583279	0.26167087	2.4208384	20	—	—
11434 Lohnert	13.3	X	216.61762	341.75938	348.66493	8.73253	0.2826983	0.21735176	2.7396428	20	3 1.3	18.3
11435 1931 UB	14.1	X	179.07925	117.59971	234.35882	1.37337	0.2158021	0.26080802	2.4261748	20	2 23.3	18.0
11436 1969 QR	14.3	X	132.27441	55.90575	239.45975	7.34700	0.1418339	0.29693617	2.2251570	20	—	—
11437 Cardalda	14.3	X	347.30488	76.65132	355.59361	22.88811	0.0983588	0.38771738	1.8626269	20	—	—
11438 Zeldovich	13.6	X	166.92672	105.19851	202.84817	2.83691	0.1931678	0.30354426	2.1927445	20	—	—
11439 1974 XW	13.6	X	192.95221	27.32694	79.55719	4.80341	0.1840657	0.22875358	2.6478342	20	7 29.4	18.0
11440 Massironi	12.5	X	338.47846	254.17375	190.55049	9.55815	0.0736533	0.15679902	3.4059674	20	12 29.3	17.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
11441 Anadiego	12.9	X	332.83693	206.14660	217.88411	12.27362	0.2585381	0.24059802	2.5602046	20	—	—
11442 Seijin–Sanso	14.2	X	66.78584	335.14888	53.23929	5.36924	0.0366400	0.29811442	2.2192900	20	—	—
11443 1977 *CP*	14.5	X	108.71109	128.39933	26.97672	1.07491	0.1462714	0.28056469	2.3108976	20	7 11.0	17.5
11444 Peshekhonov	14.8	X	348.98060	155.18798	187.93663	3.68361	0.2212037	0.28255886	2.3000120	20	10 23.2	16.3
11445 Fedotov	13.5	X	223.12969	55.34054	3.14970	12.86631	0.1730629	0.22949793	2.6421058	20	6 26.7	17.9
11446 Betankur	13.1	X	290.88908	161.86636	214.05497	0.88053	0.1938794	0.18330782	3.0691308	20	7 15.9	17.0
11447 1978 UL_4	13.8	X	270.30035	172.33608	216.46257	12.85910	0.1956972	0.23104832	2.6302731	20	7 4.9	17.6
11448 Miahajduková	15.2	X	49.31758	210.89155	150.09234	3.52087	0.1943546	0.29564949	2.2316082	20	—	—
11449 Stephwerner	13.1	X	153.08323	303.82600	302.93893	1.12651	0.0339728	0.19864890	2.9090104	20	12 9.1	17.2
11450 Shearer	14.4	X	194.73791	32.29321	148.25222	7.71622	0.1030780	0.29385404	2.2406891	20	11 19.9	17.4
11451 Aarongolden	13.8	X	172.13729	260.00282	346.67841	1.55273	0.0708799	0.20006613	2.8952562	20	12 28.5	18.0
11452 1980 *KE*	14.1	X	251.87741	53.74502	256.82435	8.04075	0.2180169	0.26734473	2.3864644	20	2 28.6	18.2
11453 Cañada–Assandri	14.1	X	350.69425	89.94716	294.62047	8.64136	0.1086631	0.24007212	2.5639422	20	11 27.7	17.0
11454 Mariomelita	13.3	X	228.20812	104.32467	328.32757	14.59213	0.0986711	0.23511097	2.5998849	20	7 30.9	17.0
11455 Richardstarr	13.1	X	195.95617	202.10549	251.79835	9.89116	0.0413972	0.18338388	3.0682821	20	7 17.4	17.7
11456 Cotto–Figueroa	13.8	X	328.88350	29.67309	288.23780	2.89288	0.0832552	0.18319251	3.0704185	20	7 12.6	17.5
11457 Hitomikobayashi	15.9	X	76.63064	328.02959	267.24383	5.09840	0.1282021	0.28499273	2.2868983	20	9 16.6	19.1
11458 Rosemarypike	13.3	X	313.08504	54.57210	330.81585	8.91856	0.1223624	0.18720996	3.0263333	20	9 11.5	16.9
11459 Andráspál	15.0	X	101.52007	295.57522	291.87212	4.19554	0.2187785	0.28590721	2.2820193	20	10 11.9	18.7
11460 Juliafang	15.7	X	339.61137	127.76561	303.12019	5.09710	0.1126818	0.29336528	2.2431772	20	—	—
11461 Wladimirneumann	14.2	X	132.80859	202.34373	337.52486	5.85810	0.0998862	0.28608354	2.2810815	20	9 6.2	17.4
11462 Hsingwenlin	14.9	X	316.73504	243.35408	155.31326	1.49416	0.0991783	0.23934350	2.5691431	20	10 21.4	17.5
11463 Petrpokorny	15.1	X	289.89700	198.35855	254.49491	1.78443	0.1138959	0.29181309	2.2511246	20	12 5.9	17.1
11464 Moser	14.5	X	287.59380	289.28828	157.36124	1.34953	0.2652796	0.19167960	2.9791026	20	10 3.9	17.9
11465 Fulvio	13.1	X	222.71688	203.73776	174.00532	20.54408	0.0274080	0.18040279	3.1019911	20	5 19.9	17.9
11466 Katharinaotto	15.1	X	18.32665	30.33963	293.97767	5.87185	0.3147606	0.28642700	2.2792576	20	12 4.3	17.8
11467 Simonporter	15.0	X	327.79080	77.86300	320.46976	3.39580	0.1196972	0.24025694	2.5626271	20	11 7.8	17.6
11468 Shantanunaidu	14.2	X	272.48971	153.42128	206.37978	0.78868	0.1662717	0.18243675	3.0788923	20	6 4.8	18.5
11469 Rozitis	15.6	X	29.57885	86.57574	188.16681	0.96296	0.2319482	0.28329917	2.2960033	20	9 27.4	18.0
11470 Davidminton	13.9	X	4.19094	214.80033	161.69296	6.00455	0.2072995	0.24100871	2.5572953	20	12 24.4	16.8
11471 Toshihirabayashi	14.5	X	240.15757	236.11436	227.21884	6.27852	0.1411034	0.23868945	2.5738342	20	9 13.6	18.2
11472 1981 SE_9	14.7	X	265.99978	214.66861	114.09079	3.26226	0.2409477	0.27233183	2.3572399	20	4 8.0	18.2
11473 Barbaresco	13.5	X	308.52502	353.18194	348.20857	9.89588	0.2456555	0.23108469	2.6299971	20	6 21.2	16.4
11474 1982 SM_2	14.8	X	3.29370	355.45033	348.53276	5.40659	0.1956109	0.28706214	2.2758944	20	11 17.4	17.0
11475 Velinský	14.1	X	299.06492	66.59652	49.26268	9.02171	0.1052855	0.28827769	2.2694922	20	—	—
11476 Stefanosimoni	14.7	X	358.96378	83.87576	166.53955	2.44752	0.1971272	0.27480017	2.3431030	20	5 30.0	16.3
11477 1984 SY_1	12.3	X	294.28368	187.04210	227.92489	9.25409	0.0896185	0.19059034	2.9904425	20	9 24.2	16.3
11478 1985 *CD*	12.9	X	142.46315	55.05032	151.54884	14.73151	0.1282545	0.23788363	2.5796434	20	10 20.6	17.1
11479 1986 EP_5	12.7	X	281.73893	121.82273	163.66517	2.15461	0.1690543	0.17411766	3.1761975	20	3 15.6	17.3
11480 Velikij Ustyug	14.4	X	96.61248	139.22272	217.79340	3.51412	0.1709180	0.29998967	2.2100318	20	—	—
11481 Znannya	13.1	X	336.97823	157.03268	234.42199	6.65449	0.0366527	0.23871914	2.5736208	20	11 10.8	16.2
11482 1988 *BW*	13.8	X	219.43567	142.05027	322.23104	12.20659	0.1234494	0.22971825	2.6404161	20	8 24.1	17.7
11483 1988 BC_4	14.2	X	267.53647	255.71721	172.55100	2.51122	0.1484204	0.23168477	2.6254538	20	9 3.1	17.5
11484 Daudet	13.9	X	169.77190	92.39644	350.45706	2.95220	0.0662866	0.22482015	2.6786290	20	6 4.9	17.8
11485 Zinzendorf	14.0	X	252.57452	295.45896	20.90823	1.67545	0.1626324	0.17550423	3.1594463	20	3 22.9	18.7
11486 1988 RE_6	14.7	X	183.90683	340.27838	79.80419	1.88590	0.2064648	0.26927263	2.3750599	20	5 22.2	18.4
11487 1988 RG_{10}	11.2	X	247.08095	6.70586	342.37152	3.52723	0.0476258	0.08438293	5.1479342	20	5 8.9	18.2
11488 1988 RM_{11}	11.4	X	231.33535	234.57429	140.63673	3.35070	0.0345100	0.08371751	5.1751767	20	5 24.7	18.3
11489 1988 *SN*	13.9	X	211.06447	21.22230	1.00721	6.81661	0.1340556	0.26793152	2.3829788	20	4 27.8	17.6
11490 1988 *TE*	14.3	X	187.12587	99.08004	260.76849	1.18075	0.2234730	0.26459352	2.4029787	20	3 10.3	18.4
11491 1988 VT_2	14.7	X	176.15535	112.80662	275.31855	1.63602	0.1712192	0.26448893	2.4036121	20	4 3.2	18.4
11492 Shimose	14.2	X	173.39980	194.93102	183.24847	2.25862	0.2050619	0.26292397	2.4131404	20	3 21.5	18.2
11493 1988 VN_5	14.5	X	78.06001	281.37550	160.71472	2.54895	0.1671357	0.25920823	2.4361472	20	2 20.4	17.1
11494 Hibiki	14.0	X	59.49029	59.95512	27.67051	7.09333	0.1743764	0.25832847	2.4416751	20	1 29.7	16.3
11495 Fukunaga	14.8	X	156.84177	162.23511	235.83351	1.04201	0.2302367	0.26225396	2.4172488	20	4 2.0	18.6
11496 Grass	14.0	X	43.31580	124.24916	134.30419	12.72331	0.1371222	0.23310283	2.6147952	20	9 3.3	17.2
11497 1989 CG_1	12.6	X	196.40816	248.06827	305.36441	14.02348	0.0865718	0.24025555	2.5626370	20	11 24.9	16.6
11498 Julgeerts	14.0	X	233.15837	97.19315	175.78754	2.35124	0.1499362	0.21515130	2.7582909	20	1 10.9	18.5
11499 Duras	14.8	X	102.40174	155.61456	176.74277	3.09656	0.1814151	0.29752355	2.2222273	20	—	—
11500 Tomaiyowit	18.3	X	358.24646	289.45744	234.42775	10.30871	0.3557795	0.87843245	1.0797680	20	—	—
11501 1989 UU_3	14.8	X	344.55316	210.24514	189.81257	3.36196	0.1740062	0.28862579	2.2676671	20	—	—
11502 1989 WU_2	13.3	X	235.98732	318.26740	83.90337	3.00645	0.1870620	0.18057746	3.0999904	20	6 15.8	18.2
11503 1990 *BF*	13.7	X	175.60459	157.08693	324.07576	4.46036	0.1013551	0.27560638	2.3385314	20	8 5.0	17.0
11504 Kazo	14.1	X	310.18342	99.61622	328.61108	7.24174	0.1604600	0.28398175	2.2923227	20	12 3.9	16.0
11505 1990 DW_2	12.5	X	175.62582	319.71476	336.19545	1.95704	0.0235956	0.15898375	3.3746926	20	—	—
11506 Toulouse–Lautrec	14.5	X	240.62060	352.68895	287.85692	6.69806	0.0976331	0.25909733	2.4368423	20	1 23.6	17.9
11507 Danpascu	14.4	X	299.04941	85.11887	250.78640	12.13181	0.2962856	0.22704858	2.6610734	20	5 18.3	17.8
11508 Stolte	13.1	X	20.62174	59.58440	85.05947	10.10336	0.1032456	0.21235371	2.7824636	20	2 14.2	16.4
11509 Thersilochos	10.1	X	249.81228	128.28541	214.69776	18.50614	0.1431248	0.08365217	5.1778713	20	4 26.0	17.3
11510 Borges	12.8	X	273.16003	355.94358	179.70271	15.27795	0.0766115	0.20426176	2.8554726	20	—	—
11511 1990 WK_2	13.3	X	191.24836	139.50063	287.73886	12.63793	0.1869367	0.21949139	2.7218094	20	6 6.6	18.0
11512 1991 AB_2	13.7	X	188.86115	333.30632	175.46248	4.03458	0.1247039	0.28872536	2.2671457	20	9 26.2	16.9
11513 1991 CE_1	12.5	X	22.67561	349.18941	216.64533	5.50690	0.0614940	0.17432696	3.1736547	20	5 7.5	16.6
11514 Tsunenaga	12.3	X	183.42246	352.25730	179.60295	9.83970	0.0327690	0.18812582	3.0165031	20	10 13.2	16.6
11515 Oshijyo	12.5	X	164.98214	306.12423	110.86928	7.88133	0.0867712	0.17637456	3.1490441	20	5 2.9	17.4
11516 Arthurpage	14.3	X	56.22931	242.26486	35.04141	7.29732	0.1082164	0.28452130	2.2894238	20	10 19.6	17.0
11517 Esteracuna	13.4	X	156.28943	119.38433	342.10397	0.58902	0.1438531	0.17876273	3.1209351	20	6 16.7	18.4
11518 Jung	13.2	X	14.28813	169.34462	18.57170	0.75329	0.0974476	0.16939748	3.2349290	20	4 2.9	17.1
11519 Adler	14.5	X	271.89803	216.85523	37.57566	1.66262	0.1574919	0.26619043	2.3933585	20	1 18.7	18.0
11520 Fromm	14.4	X	237.76865	96.93439	15.46943	5.58106	0.0961608	0.28534502	2.2850157	20	10 9.8	16.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
11521 Erikson	13.4	X	170.38809	321.98546	119.25805	2.14293	0.1639310	0.17553340	3.1590963	20	6 5.7	18.6
11522 1991 JF	13.9	X	303.56311	24.28770	239.13093	6.22894	0.1038492	0.26903884	2.3764357	20	3 11.5	17.1
11523 1991 PK_1	14.0	X	1.41491	252.93319	135.05045	14.81228	0.1926818	0.24276668	2.5449348	20	—	—
11524 Pleyel	13.9	X	101.30128	169.12911	323.95216	9.41867	0.1226328	0.26624907	2.3930071	20	5 25.9	17.3
11525 1991 RE_{25}	14.1	X	351.56131	252.24359	136.38125	7.15992	0.2265880	0.24063548	2.5599389	20	12 22.7	16.7
11526 1991 UL_3	13.4	X	328.61695	145.84220	214.21858	10.93444	0.2053109	0.23522773	2.5990245	20	9 7.3	15.9
11527 1991 VU_4	14.2	X	281.56908	252.44602	129.12094	3.77848	0.2289128	0.23200165	2.6230627	20	7 7.3	17.6
11528 Mie	12.5	X	317.83856	238.07542	133.78042	13.90985	0.1613115	0.23362600	2.6108901	20	9 12.1	15.2
11529 1992 BJ_1	14.0	X	193.69066	2.02534	78.15870	3.94943	0.2471365	0.22409399	2.6844124	20	6 23.3	18.6
11530 d′Indy	13.6	X	241.62607	76.97242	197.48679	5.87044	0.0099968	0.21193501	2.7861270	20	1 28.7	17.6
11531 1992 DL_7	13.6	X	84.63411	228.44446	108.33435	2.39255	0.0635424	0.19923453	2.9033071	20	—	—
11532 Gullin	13.8	X	117.22634	240.13595	69.07675	3.17104	0.0474204	0.20046164	2.8914468	20	—	—
11533 Akebäck	13.1	X	58.78817	132.22727	131.43910	9.75145	0.1008199	0.18944795	3.0024522	20	9 20.7	17.3
11534 1992 EB_{16}	13.2	X	101.04462	102.86632	207.63427	1.30050	0.0646767	0.19792289	2.9161198	20	12 29.2	17.4
11535 1992 EQ_{27}	13.9	X	103.26596	129.27232	166.47806	1.88463	0.0736397	0.19729856	2.9222684	20	12 14.8	18.3
11536 1992 FZ	12.4	X	85.74983	161.30922	354.22406	9.03134	0.0763593	0.17912988	3.1166691	20	5 29.3	17.0
11537 Guericke	14.7	X	199.15601	164.84833	90.00639	4.98019	0.1450424	0.30335384	2.1936620	20	—	—
11538 Brunico	14.1	X	348.75857	18.77565	300.70887	6.74904	0.1327318	0.28329083	2.2960484	20	8 29.8	16.0
11539 1992 PQ_2	14.6	X	359.78651	104.64379	268.26272	5.74899	0.1266875	0.28716354	2.2753586	20	12 14.3	17.0
11540 1992 PV_3	14.3	X	7.81083	194.31029	106.06579	4.17302	0.1609550	0.28269432	2.2992772	20	9 16.7	16.3
11541 1992 SY_{14}	14.4	X	351.61284	164.73372	239.27804	7.70751	0.1080702	0.28748549	2.2736595	20	—	—
11542 Solikamsk	11.5	X	136.17685	49.43338	16.75395	6.87075	0.2395661	0.12551964	3.9505866	20	4 23.7	17.8
11543 1992 UN_2	14.5	X	167.36309	358.99583	50.19831	3.03812	0.2003092	0.26744908	2.3858437	20	4 24.1	18.3
11544 1992 UD_3	13.6	X	185.71643	180.49394	230.13384	8.17544	0.1579190	0.26947183	2.3738894	20	5 11.5	17.1
11545 Hashimoto	14.9	X	181.72925	314.06152	90.64769	3.74417	0.2407109	0.26866159	2.3786598	20	5 2.1	18.9
11546 Miyoshimachi	13.9	X	237.10133	131.92882	302.98972	3.72193	0.1822154	0.27561296	2.3384942	20	8 2.9	17.0
11547 Griesser	15.1	X	241.49248	114.18665	297.89179	2.02827	0.2204340	0.27461944	2.3441309	20	7 3.2	18.4
11548 Jerrylewis	13.3	X	11.93774	197.33638	295.72294	24.43852	0.2304214	0.25611079	2.4557499	20	—	—
11549 1992 YY	12.1	X	168.09876	326.98314	268.23424	11.44429	0.0888599	0.24472257	2.5313568	20	12 18.8	15.6
11550 1993 BN	13.0	X	80.37364	200.25632	319.17826	9.52496	0.1356326	0.22625879	2.6672624	20	6 6.9	16.7
11551 1993 BR_3	13.7	X	168.82057	8.86521	120.39921	13.15037	0.1015751	0.23264536	2.6182219	20	8 5.6	17.6
11552 Boucolion	10.1	X	285.73740	182.17921	138.36275	14.67879	0.1524282	0.08145222	5.2706894	20	5 11.8	17.1
11553 Scheria	14.2	X	327.73743	331.33005	333.78063	2.34487	0.0577711	0.22968936	2.6406376	20	6 27.7	17.4
11554 Asios	10.5	X	347.76046	126.38746	128.08203	13.70906	0.0638539	0.08146372	5.2701936	20	5 24.0	17.3
11555 1993 CR_1	13.4	X	74.24913	24.69252	149.08650	13.66751	0.1026153	0.22567248	2.6718802	20	6 15.3	17.2
11556 1993 DV	13.9	X	207.73618	200.07620	262.48222	2.52390	0.1867213	0.23387506	2.6090362	20	8 4.9	18.1
11557 1993 FO_8	14.1	X	72.21560	12.28022	88.06753	4.61024	0.0699099	0.21731854	2.7399220	20	3 1.8	17.7
11558 1993 FY_8	14.3	X	179.68845	255.65479	56.63731	4.30382	0.0840183	0.21135258	2.7912432	20	1 7.4	18.5
11559 1993 FS_{23}	14.6	X	149.25116	20.13807	329.45462	2.31025	0.0863831	0.21149232	2.7900136	20	1 20.1	18.7
11560 1993 FU_{24}	14.2	X	264.77691	315.27350	341.35928	1.71588	0.0525437	0.21826830	2.7319680	20	3 20.5	18.1
11561 1993 FZ_{24}	14.4	X	146.99543	6.73469	340.36120	3.84870	0.0826587	0.21141654	2.7906802	20	1 14.5	18.4
11562 1993 FU_{33}	13.9	X	21.93442	87.98688	54.84579	4.62547	0.0906974	0.21571672	2.7534689	20	2 12.1	17.1
11563 1993 FO_{36}	13.6	X	209.32731	120.82804	179.55153	9.62828	0.1335845	0.21191932	2.7862646	20	1 21.1	18.3
11564 1993 FU_{41}	14.1	X	172.02821	165.85457	186.62583	5.36131	0.1838574	0.28715821	2.2753868	20	2 13.1	17.6
11565 1993 FD_{51}	14.7	X	236.89507	103.67793	273.61935	0.55308	0.2382375	0.22514255	2.6760712	20	5 12.4	18.9
11566 1993 FU_{51}	14.8	X	259.39459	267.86617	26.62645	7.12278	0.1078541	0.21770112	2.7367110	20	3 8.1	18.8
11567 1993 FF_{82}	13.9	X	269.36640	168.00448	27.82044	4.71215	0.0117102	0.20939657	2.8085986	20	—	—
11568 1993 GL	12.8	X	166.95990	206.29538	48.57366	2.73867	0.0303085	0.20306431	2.8666873	20	—	—
11569 Virgilsmith	12.1	X	313.72503	102.21222	175.02034	18.20085	0.1678456	0.18052815	3.1005549	20	4 17.8	16.2
11570 1993 LE	12.7	X	42.20841	144.96615	131.51087	11.95606	0.0907726	0.18791452	3.0187639	20	9 13.2	16.8
11571 Daens	14.1	X	271.01129	270.54729	136.78244	2.88468	0.2277360	0.18164194	3.0878673	20	7 24.7	18.4
11572 Schindler	15.1	X	98.90776	53.34478	218.07196	0.64353	0.1678760	0.26111790	2.4242549	20	11 28.9	18.7
11573 Helmholtz	13.3	X	155.25254	127.71759	310.59027	2.25006	0.2638068	0.16750849	3.2592037	20	5 22.9	18.9
11574 d′Alviella	14.2	X	340.75786	195.98598	137.45457	11.79001	0.2492963	0.28377034	2.2934611	20	9 20.2	15.4
11575 1994 BN_4	13.7	X	343.74466	75.33833	254.02233	5.69929	0.1499716	0.28119994	2.3074160	20	9 4.0	15.7
11576 1994 CL	13.4	X	266.60319	256.88129	356.36427	10.90869	0.1335011	0.26196081	2.4190518	20	1 16.9	17.1
11577 Einasto	13.8	X	194.14602	206.40955	75.60534	4.02576	0.1447869	0.25661770	2.4525148	20	—	—
11578 Cimabue	14.0	X	312.19725	319.69511	172.29794	6.55871	0.0779945	0.25397611	2.4694911	20	—	—
11579 Tsujitsuka	13.7	X	51.74369	87.96782	201.24274	13.58845	0.2011527	0.23689959	2.5867820	20	11 3.9	17.3
11580 Bautzen	14.5	X	36.33558	266.84973	215.88686	3.09902	0.1297683	0.25914057	2.4365712	20	1 28.3	16.9
11581 Philipdejager	13.8	X	19.54219	159.28435	159.35993	10.10173	0.0885634	0.19199234	2.9758665	20	10 5.1	17.6
11582 Bleuler	13.8	X	266.53606	237.38073	299.18458	0.96856	0.0090341	0.20253796	2.8716517	20	—	—
11583 Breuer	14.6	X	27.75444	181.89256	115.27612	4.81133	0.1453181	0.19157897	2.9801457	20	9 26.8	18.3
11584 Ferenczi	13.6	X	225.80651	96.53809	325.73217	9.10820	0.0758286	0.18495603	3.0508701	20	7 12.7	18.1
11585 Orlandelassus	13.0	X	109.65687	178.21420	152.27098	2.62599	0.0715336	0.20224790	2.8743967	20	—	—
11586 1994 UA_2	13.0	X	13.42182	147.08627	219.60505	10.17988	0.1165334	0.19097747	2.9863998	20	11 28.1	16.8
11587 1994 UH_2	13.1	X	228.26193	307.80306	64.44251	3.12688	0.2043982	0.17624067	3.1506389	20	5 2.8	18.2
11588 Gottfriedkeller	13.8	X	216.94194	241.31121	128.87739	5.98003	0.1624051	0.17354946	3.1831263	20	4 24.9	19.0
11589 1994 WG	12.5	X	79.13171	138.33405	250.30707	13.50717	0.0713115	0.15926722	3.3706871	20	—	—
11590 1994 WH_3	13.0	X	238.68464	259.76952	111.36872	1.96868	0.1760419	0.17593136	3.1543306	20	5 13.1	17.9
11591 1995 FV	14.6	X	42.86253	72.12744	154.21714	4.76810	0.0907647	0.28140458	2.3062972	20	7 11.8	17.0
11592 Clintkelly	15.4	X	128.15273	130.56806	139.83085	3.97164	0.1401568	0.29648537	2.2274119	20	12 30.6	18.7
11593 Uchikawa	14.3	X	225.92346	77.15668	132.17248	2.59474	0.0935026	0.29894221	2.2151912	20	—	—
11594 1995 HP	14.4	X	315.31604	214.76003	100.06865	3.58970	0.2391795	0.27764779	2.3270546	20	5 26.3	16.4
11595 Monsummano	14.4	X	134.81035	84.93039	76.14281	4.99213	0.0733771	0.29033345	2.2587665	20	8 15.2	17.4
11596 Francetic	14.6	X	268.67719	111.92670	185.74652	19.84472	0.2321540	0.26955810	2.3733828	20	2 27.9	18.5
11597 1995 KL_1	13.4	X	67.47266	284.99553	306.27669	22.06204	0.2090678	0.28057711	2.3108294	20	9 2.1	16.9
11598 Kubík	15.0	X	57.42710	73.93856	125.27911	3.08375	0.1737725	0.27444588	2.3451191	20	7 8.9	17.6
11599 1995 QR	14.3	X	188.54065	278.17951	38.02905	2.72147	0.1776975	0.25885620	2.4383554	20	1 19.2	18.2
11600 Cipolla	15.0	X	330.60674	28.64197	258.13328	10.59317	0.1533739	0.22907907	2.6453254	20	5 26.7	17.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
11601 1995 SE_4	13.9	X	248.04941	110.27937	270.09573	13.68090	0.1168531	0.22850161	2.6497803	20	6 9.4	17.8
11602 Miryang	13.9	X	33.43947	229.06005	309.92744	10.61248	0.1312257	0.22495333	2.6775716	20	4 14.2	17.1
11603 1995 TF	14.1	X	16.16892	327.99442	9.49048	15.22042	0.1043261	0.23753183	2.5821899	20	10 29.5	17.3
11604 Novigrad	13.3	X	137.21128	301.61616	242.06682	8.51012	0.0188931	0.19119504	2.9841339	20	8 28.9	17.8
11605 Ranfagni	14.2	X	39.17823	91.54617	229.80821	13.41672	0.1652698	0.24026863	2.5625440	20	11 24.5	17.6
11606 Almary	17.0	X	179.24101	30.65156	335.53180	5.83818	0.1655148	0.25807209	2.4432919	20	3 9.9	20.9
11607 1995 WX_1	13.1	X	347.56936	320.69748	239.15213	14.41546	0.1457859	0.17291647	3.1908898	20	2 25.4	17.3
11608 1995 WU_4	14.1	X	219.09009	93.84528	297.42742	10.82897	0.1945030	0.22263744	2.6961077	20	5 14.6	18.7
11609 1995 XT	13.1	X	169.38472	347.47094	114.98347	2.29301	0.1241169	0.18100668	3.0950878	20	6 29.9	18.1
11610 1995 XJ_1	12.4	X	271.66072	128.06412	270.00976	8.74778	0.0633760	0.18660495	3.0328711	20	8 4.9	16.7
11611 1995 YQ	13.3	X	28.10488	178.31248	117.37741	11.83146	0.0829123	0.19078746	2.9883824	20	9 19.1	17.4
11612 Obu	13.6	X	353.09954	60.12668	11.19436	7.18077	0.1756311	0.19954318	2.9003125	20	—	—
11613 1995 YN_4	12.9	X	302.87440	69.06889	342.29064	9.40994	0.1090790	0.19103930	2.9857555	20	9 30.7	16.6
11614 Istropolitana	13.5	X	349.41026	276.52898	93.94450	12.02718	0.1267765	0.19090785	2.9871259	20	11 1.2	17.2
11615 Naoya	13.1	X	130.56717	303.93539	145.51097	2.52722	0.1563389	0.17352215	3.1834603	20	5 10.3	18.1
11616 1996 BQ_2	11.9	X	30.73329	281.56857	138.62441	15.21009	0.0767288	0.15675497	3.4066055	20	—	—
11617 1996 CL_2	12.5	X	215.10836	81.94068	9.37325	13.02327	0.1033686	0.18138205	3.0908162	20	8 7.2	17.4
11618 1996 EX_1	12.6	X	191.64012	257.55047	178.42497	16.10241	0.0963929	0.17418874	3.1753333	20	6 19.8	17.8
11619 1996 GG_{17}	13.3	X	289.00289	157.50501	124.35718	6.93336	0.1307870	0.24485981	2.5304108	20	3 21.4	16.8
11620 Susanagordon	13.5	X	259.40537	338.02806	294.98833	13.44594	0.1320998	0.22943066	2.6426222	20	2 2.3	17.5
11621 Duccio	13.1	X	20.08961	32.34989	333.84929	11.53090	0.1142555	0.17205920	3.2014799	20	11 28.9	17.5
11622 Samuele	13.7	X	186.96987	253.98982	48.45195	13.33698	0.1605242	0.21993768	2.7181262	20	1 5.4	18.3
11623 Kagekatu	14.4	X	314.16053	110.23899	22.06366	7.09715	0.0979641	0.29779892	2.2208572	20	—	—
11624 1996 UF	14.5	X	163.83316	201.77184	149.64090	1.59654	0.1554167	0.30729283	2.1748757	20	1 31.4	17.6
11625 Francelinda	13.7	X	198.93322	146.23202	205.48917	11.69730	0.0767141	0.18633179	3.0358344	20	3 13.9	18.4
11626 Church Stretton	14.5	X	299.73066	57.57654	19.63203	4.76836	0.0971643	0.28856605	2.2679800	20	11 29.2	16.6
11627 1996 VT_4	14.1	X	281.27791	217.63986	270.86166	4.46368	0.0548707	0.29070312	2.2568512	20	—	—
11628 Katuhikoikeda	13.9	X	85.30245	287.49421	51.19141	6.41935	0.0463456	0.29622628	2.2287105	20	—	—
11629 1996 VY_{29}	14.7	X	355.18948	136.14309	185.38418	2.96738	0.1630619	0.28442708	2.2899294	20	9 22.6	16.4
11630 1996 VY_{38}	15.2	X	44.59204	130.25612	120.93753	1.66041	0.0646014	0.28225358	2.3016701	20	8 18.1	17.8
11631 1996 XV_1	14.3	X	299.94475	45.57648	283.46777	5.80380	0.1298840	0.27349872	2.3505303	20	6 7.9	16.9
11632 1996 XB_3	13.8	X	200.57797	182.13659	139.28414	3.20201	0.2046148	0.26178701	2.4201224	20	2 4.3	17.7
11633 1996 XG_9	13.3	X	229.35462	169.17637	60.50724	9.08467	0.1609901	0.21110549	2.7934208	20	—	—
11634 1996 XU_{30}	14.7	X	204.74565	188.58443	242.67172	9.28234	0.0964881	0.27499101	2.3420188	20	6 29.6	18.1
11635 1996 XQ_{32}	14.2	X	316.94455	248.65437	221.28960	3.98936	0.0978096	0.29241413	2.2480389	20	—	—
11636 Pezinok	14.8	X	121.49743	152.02501	127.25739	7.29074	0.1170924	0.24527014	2.5275879	20	12 25.1	18.8
11637 Yangjiachi	13.3	X	21.68342	352.55784	114.78138	10.76611	0.1905395	0.21218466	2.7839412	20	—	—
11638 1997 AH	14.2	X	71.09242	312.93112	92.72775	6.27434	0.1811174	0.25551752	2.4595497	20	—	—
11639 1997 AO_4	13.4	X	229.05723	187.75556	124.86054	5.90050	0.1049404	0.21704679	2.7422085	20	2 26.5	17.6
11640 1997 AT_4	14.5	X	200.56116	88.23661	299.45231	5.14286	0.1227479	0.26690332	2.3890949	20	4 24.4	18.1
11641 1997 AP_{12}	13.6	X	358.40753	211.89920	291.95117	11.65741	0.0726985	0.21380995	2.7698151	20	1 8.0	17.0
11642 1997 AN_{21}	13.9	X	285.57977	119.21438	311.37719	13.19728	0.1317519	0.23954786	2.5676817	20	9 30.9	17.1
11643 1997 AM_{22}	14.4	X	59.73906	301.13857	131.36537	3.42867	0.2633389	0.25702326	2.4499342	20	1 15.6	15.9
11644 1997 BR_1	12.8	X	62.85357	61.34626	125.17512	10.74686	0.2482406	0.17878512	3.1206745	20	7 6.3	17.0
11645 1997 BY_1	13.8	X	13.30966	238.31467	131.32071	12.98942	0.1840233	0.24184061	2.5514275	20	12 26.2	17.0
11646 1997 BZ_1	14.3	X	2.38579	290.48693	65.84048	1.62842	0.0727895	0.23847606	2.5753694	20	11 4.5	17.4
11647 1997 BN_3	13.3	X	212.73206	43.64058	44.39013	2.58283	0.0532113	0.18736314	3.0246836	20	8 1.1	17.6
11648 1997 BT_3	13.5	X	327.79201	19.30486	110.26620	3.10903	0.0260705	0.20473918	2.8510319	20	—	—
11649 1997 BR_6	14.1	X	258.61368	99.41558	336.02017	4.88312	0.1459650	0.27797227	2.3252433	20	9 6.9	16.9
11650 1997 CN	13.2	X	162.44291	50.23125	297.46767	6.33917	0.2539613	0.25582119	2.4576029	20	2 6.9	17.3
11651 1997 CY	13.7	X	21.17805	285.34608	182.61457	2.82334	0.0130478	0.20957575	2.8069976	20	—	—
11652 Johnbrownlee	12.6	X	36.46449	129.62821	100.37324	2.90297	0.1246508	0.18015070	3.1048843	20	7 5.7	16.4
11653 1997 CA_{20}	12.9	X	92.98213	327.24874	144.46887	10.25489	0.0453428	0.17479104	3.1680347	20	4 14.5	17.4
11654 1997 CD_{20}	14.7	X	35.57403	271.60775	130.42600	5.10263	0.1835672	0.24684629	2.5168170	20	—	—
11655 1997 CC_{29}	13.4	X	52.90881	80.93665	67.50938	0.09292	0.0890723	0.17487810	3.1669832	20	4 9.8	17.6
11656 Lipno	13.2	X	147.72303	17.93880	9.58049	3.99051	0.0707587	0.17079218	3.2172939	20	3 7.5	18.0
11657 Antonhajduk	14.8	X	18.91644	159.81472	182.40126	2.55145	0.1915848	0.28463669	2.2888050	20	12 10.3	17.3
11658 1997 EQ_{17}	12.4	X	18.66847	26.96060	164.62860	24.15567	0.1309593	0.17374814	3.1806992	20	4 20.2	16.5
11659 1997 EX_{41}	13.6	X	281.16079	14.93078	233.18019	2.98855	0.0156303	0.21368722	2.7708755	20	2 12.9	17.3
11660 1997 FL_2	14.2	X	81.86776	282.69780	135.03630	3.13795	0.1793281	0.25661515	2.4525311	20	1 25.9	16.6
11661 1997 FK_4	13.5	X	107.51653	62.43666	3.49047	8.72873	0.1432623	0.21197478	2.7857785	20	3 14.3	17.3
11662 1997 GL_{23}	13.3	X	194.43961	41.12279	52.60947	5.05341	0.1324404	0.17918385	3.1160432	20	7 13.9	18.2
11663 1997 GO_{24}	10.9	X	274.22304	88.79450	226.01768	14.46985	0.1277057	0.08467231	5.1361983	20	4 20.0	17.9
11664 Kashiwagi	13.1	X	35.70680	80.34602	117.34969	2.73712	0.0820090	0.17418952	3.1753239	20	5 18.2	17.2
11665 Dirichlet	14.1	X	4.92249	309.41908	215.19827	15.78672	0.1469412	0.16605898	3.2781424	20	2 11.9	18.3
11666 Bracker	14.2	X	181.68998	336.20006	188.32571	1.36490	0.1630096	0.26444770	2.4038619	20	10 3.3	17.9
11667 Testa	14.9	X	224.70117	261.81385	32.10594	4.75352	0.1558617	0.27904568	2.3192764	20	1 22.1	18.5
11668 Balios	11.5	X	310.75454	15.00494	19.93161	4.67568	0.1438929	0.08406446	5.1609277	20	9 5.1	17.9
11669 Pascalscholl	14.9	X	15.68450	19.15846	72.84467	1.28279	0.0927178	0.25826516	2.4420741	20	—	—
11670 Fountain	13.1	X	331.83283	247.28430	22.41566	0.87522	0.1265703	0.18106005	3.0944796	20	5 9.0	16.9
11671 1998 BG_4	14.7	X	311.03306	186.24274	26.09601	1.12014	0.1463302	0.26627134	2.3928736	20	1 10.2	17.8
11672 Cuney	14.5	X	5.37410	317.87323	281.17761	6.05119	0.1912000	0.27717079	2.3297236	20	5 25.2	16.0
11673 Baur	14.5	X	185.26292	64.33758	157.46506	2.33215	0.0876705	0.29710307	2.2243235	20	—	—
11674 1998 BN_{25}	14.2	X	214.38331	349.19304	321.34891	1.00196	0.0376534	0.31194535	2.1531967	20	1 27.2	16.7
11675 Billboyle	14.4	X	76.15081	29.77192	181.37485	2.04653	0.1625903	0.28168772	2.3047515	20	8 20.2	17.2
11676 1998 CQ_2	15.1	X	316.16731	259.44656	310.56656	1.90176	0.1138933	0.26528017	2.3988303	20	1 18.8	18.1
11677 1998 DY_4	14.4	X	148.96936	137.30089	141.26185	7.22986	0.1300731	0.29845549	2.2175989	20	—	—
11678 Brevard	14.2	X	238.56435	308.84381	258.48333	2.20541	0.1747136	0.25483078	2.4639665	20	—	—
11679 Brucebaker	14.8	X	339.34497	330.54711	227.60118	2.55077	0.0766042	0.31235392	2.1513187	20	2 1.2	16.8
11680 1998 DT_{11}	14.1	X	122.41523	61.27571	147.50335	5.31318	0.1770308	0.24041420	2.5615095	20	10 3.6	18.2

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
11681 Ortner	13.9	X	301.68159	215.57107	324.71609	2.01713	0.1028030	0.30432743	2.1889809	20	—	—
11682 Shiwaku	13.7	X	259.26177	168.26416	76.61142	3.05615	0.1716061	0.26079456	2.4262583	20	—	—
11683 1998 FO_{11}	13.3	X	73.20284	20.06302	179.11892	12.97247	0.0491601	0.23211818	2.6221847	20	7 7.7	17.1
11684 1998 FY_{11}	13.2	X	358.96819	88.98447	159.06700	8.35679	0.1483308	0.22815945	2.6524288	20	5 28.4	16.0
11685 Adamcurry	14.8	X	280.24193	312.21148	334.45383	5.04726	0.0973261	0.27021830	2.3695154	20	3 14.9	17.8
11686 1998 FU_{36}	14.4	X	33.60592	65.30080	5.77449	5.69815	0.1226089	0.30332510	2.1938006	20	—	—
11687 1998 FM_{40}	14.5	X	47.47846	30.07847	257.81169	1.14330	0.2379167	0.23860520	2.5744400	20	11 1.1	18.0
11688 Amandugan	14.8	X	36.00741	298.08463	339.30636	3.70119	0.0379080	0.28194301	2.3033600	20	9 7.8	17.5
11689 1998 FA_{56}	13.8	X	122.52232	49.33035	170.59922	14.81950	0.0374108	0.24135354	2.5548590	20	10 11.5	17.4
11690 Carodulaney	14.4	X	115.71986	235.68478	8.91177	6.05672	0.0803146	0.28709187	2.2757373	20	11 10.8	17.5
11691 Easterwood	15.0	X	286.99375	255.04832	166.98807	1.68177	0.1170913	0.28749221	2.2736241	20	10 12.7	17.0
11692 1998 FV_{67}	13.5	X	15.44667	111.20692	144.88091	3.99893	0.2148952	0.18571919	3.0425066	20	7 14.9	16.6
11693 Grantelliott	14.1	X	295.82578	237.79989	359.34251	1.86114	0.1032833	0.26320691	2.4114108	20	1 30.6	17.3
11694 Esterhuysen	14.9	X	193.96002	278.89110	163.87111	3.72704	0.1015548	0.27806153	2.3247457	20	7 3.4	18.2
11695 Mattei	14.6	X	277.11643	116.42422	24.99762	6.52022	0.0682136	0.29512282	2.2342624	20	—	—
11696 Capen	14.2	X	278.00014	121.23474	66.32165	3.49621	0.1439779	0.30082730	2.2059274	20	—	—
11697 Estrella	14.4	X	117.59328	213.00122	272.09455	6.27275	0.0578606	0.27482912	2.3429385	20	5 28.6	17.4
11698 Fichtelman	14.5	X	92.58771	194.64532	329.63413	6.61692	0.1226095	0.27582114	2.3373174	20	6 30.8	17.5
11699 1998 FL_{105}	13.1	X	307.36248	285.78742	300.59565	5.07941	0.0830641	0.26433364	2.4045534	20	2 2.1	15.9
11700 1998 FT_{115}	13.1	X	181.76594	291.45218	302.50915	4.24104	0.1870857	0.20373307	2.8604105	20	12 15.8	17.9
11701 1998 FY_{116}	13.5	X	275.85394	23.70606	275.98828	5.23460	0.1491055	0.22241991	2.6978654	20	3 22.0	17.4
11702 Mifischer	14.8	X	243.03066	90.74042	321.95739	4.05791	0.1182026	0.28004155	2.3137747	20	7 19.9	17.9
11703 Glassman	14.6	X	0.16120	149.93694	143.78015	1.56373	0.0829301	0.23422975	2.6064017	20	8 4.0	17.5
11704 Gorin	15.0	X	280.38570	303.02273	10.49465	7.04828	0.1273142	0.26993728	2.3711597	20	4 16.4	18.0
11705 1998 GN_{7}	12.2	X	270.27723	222.31202	131.00786	13.88622	0.1927348	0.22986795	2.6392697	20	5 24.8	16.2
11706 Rijeka	14.1	X	136.40767	213.27480	29.32138	2.03112	0.0589615	0.19862295	2.9092638	20	11 15.6	18.5
11707 Grigery	14.5	X	78.84713	64.25704	309.96296	3.60418	0.1612838	0.29862772	2.2167462	20	—	—
11708 1998 HT_{19}	15.6	X	192.80127	169.21527	215.61113	2.51553	0.1173844	0.31600942	2.1346960	20	4 12.3	18.3
11709 Eudoxos	14.7	X	42.68035	97.91994	193.18477	2.76116	0.1097346	0.23466820	2.6031542	20	10 10.6	17.9
11710 Nataliehale	14.6	X	343.48410	41.23390	101.43638	3.18225	0.0742143	0.25900173	2.4374419	20	—	—
11711 Urquiza	14.1	X	271.98967	54.47128	273.40923	2.90365	0.1082116	0.27042180	2.3683266	20	4 28.4	17.2
11712 Kemcook	14.0	X	255.23413	357.49043	65.42988	3.21604	0.0896037	0.23396598	2.6083602	20	8 21.1	17.4
11713 Stubbs	13.7	X	318.15284	215.15851	213.80448	11.24394	0.1232402	0.24433479	2.5340344	20	12 7.1	16.4
11714 Mikebrown	14.1	X	293.27112	135.16514	178.71883	3.01628	0.2563184	0.22577077	2.6711047	20	4 18.4	17.7
11715 Harperclark	14.2	X	299.19556	215.82533	168.33484	2.18970	0.0753338	0.28113976	2.3077453	20	9 9.3	16.3
11716 Amahartman	14.7	X	331.76101	338.94510	344.39316	2.99245	0.1927492	0.23032922	2.6357448	20	7 22.3	16.9
11717 1998 HU_{94}	12.8	X	198.37898	309.46671	20.03474	1.04864	0.1521606	0.17097775	3.2149655	20	2 20.1	18.1
11718 Hayward	14.1	X	165.12903	293.39505	76.27445	4.81655	0.1934138	0.21633619	2.7482101	20	3 9.3	18.7
11719 Hicklen	14.0	X	318.24273	120.27614	63.07310	1.86466	0.0380541	0.21361047	2.7715392	20	1 7.9	17.7
11720 Horodyskyj	14.0	X	135.20014	75.03987	150.30555	5.44068	0.0532840	0.24061480	2.5600856	20	11 2.6	17.6
11721 1998 HE_{100}	13.8	X	174.71481	157.22059	188.31075	9.21745	0.1769857	0.21322390	2.7748880	20	2 12.9	18.4
11722 1998 HR_{115}	13.2	X	4.34066	176.62772	144.78586	11.36333	0.1035881	0.19100944	2.9860666	20	9 16.7	16.9
11723 1998 HT_{125}	14.2	X	77.99621	73.34456	125.50177	4.50121	0.1442258	0.27485337	2.3428007	20	8 2.5	17.1
11724 Ronaldhsu	14.6	X	295.03623	15.07724	96.83808	3.26672	0.0950211	0.29226936	2.2487811	20	—	—
11725 Victoriahsu	14.2	X	125.15105	202.14709	148.18456	2.03115	0.0507872	0.20930507	2.8094171	20	—	—
11726 Edgerton	12.5	X	1.01054	128.81767	143.38162	8.09673	0.1533018	0.18240718	3.0792250	20	7 3.6	16.0
11727 Sweet	14.1	X	212.66067	56.56488	319.27496	1.81843	0.0493694	0.26814495	2.3817141	20	4 26.6	17.3
11728 Einer	13.7	X	175.40066	154.04612	100.86332	3.24773	0.0160590	0.20316969	2.8656960	20	—	—
11729 1998 KD_{22}	12.7	X	322.91615	164.82383	78.12037	2.79853	0.1187179	0.17591148	3.1545682	20	3 24.3	16.7
11730 Yanhua	14.5	X	46.69065	1.53194	147.24971	4.23953	0.0669164	0.26412565	2.4058156	20	3 22.4	17.0
11731 1998 KF_{47}	12.8	X	270.34644	148.61473	121.56795	2.52122	0.1603593	0.17077326	3.2175315	20	2 16.2	17.7
11732 1998 KX_{48}	12.4	X	53.77064	145.98037	116.02663	10.94151	0.0586398	0.18888156	3.0084515	20	9 5.9	16.6
11733 1998 KJ_{52}	12.4	X	56.66323	336.53342	180.44526	10.39898	0.0021572	0.17548740	3.1596484	20	4 17.4	16.8
11734 1998 KM_{55}	12.4	X	165.61311	254.07301	221.62408	12.49274	0.1301093	0.22831186	2.6512483	20	7 11.9	16.8
11735 1998 KN_{56}	13.8	X	353.02969	333.55328	352.42128	3.61293	0.1323177	0.18890434	3.0082096	20	9 3.1	17.2
11736 Viktorfischl	14.0	X	90.89152	103.09907	73.56499	3.34482	0.1477992	0.26339136	2.4102848	20	7 18.9	17.3
11737 1998 QL_{24}	13.9	X	120.86194	281.81202	201.61009	3.87778	0.0262344	0.26022588	2.4297918	20	5 27.4	17.0
11738 1998 RK_{72}	12.5	X	3.05412	169.16326	115.88020	2.20838	0.1627787	0.17388205	3.1790660	20	7 25.8	16.0
11739 Baton Rouge	12.0	X	245.63286	115.39816	269.63514	12.10777	0.2487423	0.12588142	3.9430138	20	5 28.9	18.3
11740 Georgesmith	13.4	X	168.32640	219.46172	206.42805	1.42056	0.0196869	0.19892530	2.9063151	20	5 11.6	17.3
11741 1999 AZ_{3}	13.5	X	337.71664	230.50987	54.01545	2.94556	0.0153210	0.20076458	2.8885373	20	6 15.6	17.4
11742 1999 JZ_{5}	14.0	X	180.30842	126.76720	103.96945	5.59127	0.0161250	0.21112345	2.7932624	20	12 25.4	17.9
11743 Jachowski	14.7	X	67.16750	322.74047	109.25824	3.15766	0.1902775	0.27062146	2.3671615	20	1 17.7	16.6
11744 1999 NQ_{2}	15.1	X	301.61160	21.16175	308.20094	4.37753	0.2209160	0.27694056	2.3310147	20	5 25.0	17.5
11745 1999 NH_{3}	12.8	X	219.20854	179.15471	159.21099	14.22440	0.1798735	0.22198598	2.7013800	20	3 15.7	17.2
11746 Thomjansen	14.9	X	147.71454	29.80652	248.50214	2.05359	0.1848116	0.29989920	2.2104762	20	—	—
11747 1999 NQ_{9}	13.9	X	338.17003	331.66120	174.99172	2.69987	0.0314719	0.21134622	2.7912992	20	—	—
11748 1999 NT_{10}	14.8	X	239.22929	347.95480	299.41220	8.36463	0.2462155	0.26579050	2.3957587	20	1 23.9	18.8
11749 1999 NZ_{10}	13.4	X	18.63459	53.64531	296.75476	0.83356	0.0676980	0.19529587	2.9422124	20	11 8.9	17.1
11750 1999 NM_{33}	12.4	X	223.92456	328.84367	327.07940	2.67949	0.0539035	0.12423979	3.9776715	20	2 13.1	18.1
11751 1999 NK_{37}	13.5	X	283.15532	227.13332	339.92847	2.17198	0.1055491	0.26198685	2.4188915	20	—	—
11752 1999 OU_{3}	13.8	X	44.09154	131.72488	137.72202	14.40012	0.1658937	0.23720514	2.5845602	20	9 27.0	17.2
11753 Geoffburbidge	13.7	X	75.98208	193.76385	298.54681	3.54765	0.0869342	0.17331981	3.1859374	20	4 19.2	18.2
11754 Herbig	13.8	X	100.35030	142.72180	183.59218	1.10390	0.0592534	0.20094774	2.8867818	20	—	—
11755 Paczynski	14.7	X	210.43428	192.23405	32.68878	2.82204	0.1530893	0.26774528	2.3840837	20	—	—
11756 Geneparker	14.7	X	285.42493	303.67818	51.62846	2.20776	0.1809494	0.29341608	2.2429183	20	6 15.5	17.1
11757 Salpeter	15.0	X	249.90780	162.75582	185.74068	29.62427	0.2418061	0.17724782	3.1386925	20	4 21.7	20.3
11758 Sargent	13.4	X	271.71399	36.17391	279.36037	3.63360	0.1550360	0.17696530	3.1420323	20	4 9.4	18.2
11759 Sunyaev	15.5	X	225.16216	109.89100	326.41368	0.71245	0.0953515	0.26049760	2.4281018	20	7 31.6	18.6
11760 Auwers	13.7	X	185.14816	72.51713	335.87137	4.73138	0.0959661	0.17542698	3.1603739	20	5 8.4	18.7

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
11761 Davidgill	14.7	X	11.57535	79.86718	20.37536	1.84602	0.1905168	0.18580132	3.0416100	20	—	—
11762 Vogel	13.2	X	116.11458	304.25321	316.71202	1.29211	0.0271854	0.19924811	2.9031752	20	11 13.7	17.4
11763 Deslandres	14.3	X	11.25012	249.75350	182.19873	2.27420	0.0157968	0.20181378	2.8785173	20	—	—
11764 Benbaillaud	14.6	X	95.55352	20.07053	16.31024	4.70324	0.0688052	0.30304280	2.1951628	20	—	—
11765 Alfredfowler	14.3	X	39.80527	272.17294	312.46658	3.27413	0.1094969	0.27671119	2.3323026	20	7 7.5	16.7
11766 Fredseares	13.1	X	233.43082	19.50713	344.55923	4.91247	0.1563918	0.17695193	3.1421905	20	4 28.8	18.2
11767 Milne	15.1	X	263.10524	115.29817	1.18221	7.37495	0.0516977	0.29165636	2.2519310	20	11 29.2	17.6
11768 Merrill	13.1	X	348.03687	83.10045	11.22845	9.27980	0.0691531	0.17525319	3.1624628	20	—	—
11769 Alfredjoy	14.8	X	178.00275	55.21358	181.77653	3.06145	0.0379994	0.23532440	2.5983126	20	—	—
11770 Rudominkowski	13.5	X	264.78661	107.50601	74.60746	3.54805	0.1330252	0.17396233	3.1780879	20	—	—
11771 Maestlin	14.1	X	146.14583	307.96365	31.78694	7.51181	0.2144273	0.19762844	2.9190156	20	1 20.9	18.9
11772 Jacoblemaire	13.7	X	77.55011	41.52103	145.18709	5.02327	0.1106862	0.22597674	2.6694814	20	7 6.9	17.3
11773 Schouten	13.7	X	282.73818	265.76953	326.48895	7.51941	0.1241524	0.21735188	2.7396418	20	1 14.1	17.6
11774 Jerne	13.6	X	261.57443	335.44353	348.27477	13.71583	0.1480209	0.17670726	3.1450904	20	4 6.4	18.5
11775 Köhler	15.1	X	81.74557	245.30442	164.83145	3.37284	0.0296163	0.30761808	2.1733423	20	—	—
11776 Milstein	13.7	X	196.85927	74.30994	284.46194	0.44705	0.1821972	0.17466660	3.1695393	20	3 22.3	18.8
11777 Hargrave	15.8	X	258.26619	273.30009	7.71092	2.28500	0.2093502	0.26634276	2.3924459	20	2 3.5	19.5
11778 Kingsford Smith	15.0	X	70.16269	41.26681	66.11022	4.14300	0.0620231	0.31029968	2.1608030	20	2 22.9	17.1
11779 Zernike	14.0	X	29.96592	290.52055	69.64001	4.68163	0.1102975	0.23214579	2.6219768	20	12 21.9	17.4
11780 Thunder Bay	13.1	X	41.02202	222.20907	150.58396	9.35315	0.2710430	0.24238088	2.5476346	20	—	—
11781 Alexroberts	14.0	X	323.62684	168.31873	123.33437	7.31109	0.1239123	0.27198130	2.3592648	20	5 26.7	16.4
11782 Nikolajivanov	14.3	X	195.14966	356.01796	26.43926	2.36686	0.1846056	0.26372803	2.4082331	20	4 14.2	18.1
11783 1971 UN_1	13.4	X	240.28633	206.56560	187.13705	1.36730	0.2082932	0.17507866	3.1645642	20	6 7.7	18.5
11784 1971 UT_1	13.3	X	269.87611	181.81080	171.77458	2.34114	0.2188533	0.17634015	3.1494538	20	5 18.4	18.0
11785 Migaic	12.8	X	45.15383	83.34526	65.51813	7.71538	0.0671109	0.21261947	2.7801445	20	3 28.5	16.3
11786 Bakhchivandji	13.0	X	338.45117	315.90828	341.77104	7.27214	0.2781087	0.18218083	3.0817750	20	6 14.2	15.9
11787 Baumanka	12.5	X	309.36097	344.55825	355.39260	13.35017	0.1799532	0.22686053	2.6625438	20	7 3.8	15.7
11788 Nauchnyj	15.1	X	266.96316	7.27356	314.12515	2.42522	0.2527787	0.26992357	2.3712400	20	3 26.7	18.7
11789 Kempowski	14.7	X	42.00535	134.44689	46.63791	21.44997	0.0496666	0.36155295	1.9514381	20	4 26.0	16.3
11790 Goode	13.5	X	97.45518	273.46818	12.09294	4.18234	0.2583437	0.24011857	2.5636115	20	12 15.5	18.0
11791 Sofiyavarzar	14.7	X	294.95739	28.70397	347.23522	5.66285	0.2373824	0.23214500	2.6219827	20	7 20.7	17.6
11792 Sidorovsky	15.1	X	268.91484	84.33869	340.86504	4.54841	0.2888145	0.23233058	2.6205863	20	8 10.6	18.4
11793 Chujkovia	13.1	X	296.06476	257.82151	145.99540	9.68107	0.1380164	0.18555123	3.0443423	20	9 9.8	16.8
11794 Yokokebukawa	13.3	X	225.13187	335.78239	81.47498	2.55461	0.1502038	0.17941374	3.1133808	20	6 27.0	18.2
11795 Fredrikbruhn	13.6	X	126.60333	145.58996	192.65904	1.02968	0.1174574	0.20231548	2.8737565	20	—	—
11796 Nirenberg	14.4	X	298.01996	66.93286	173.63482	4.69117	0.2015300	0.26871222	2.3783610	20	1 22.1	17.6
11797 Warell	13.4	X	318.79505	298.01610	355.79631	12.13850	0.1889886	0.22465309	2.6799567	20	5 4.9	16.6
11798 Davidsson	13.6	X	308.79297	83.93908	354.37159	13.53813	0.1593448	0.23627722	2.5913226	20	11 24.3	16.5
11799 Lantz	13.3	X	3.70461	104.92810	220.70201	10.09411	0.1740739	0.18536484	3.0463828	20	9 20.9	16.8
11800 Carrozzo	13.6	X	317.75742	149.02792	241.26462	9.98850	0.1042629	0.18761764	3.0219477	20	9 24.9	17.5
11801 Frigeri	13.1	X	223.45437	197.27814	246.03171	9.71878	0.0877591	0.18486607	3.0518598	20	7 30.6	17.8
11802 Ivanovski	14.5	X	359.60678	156.10768	259.15678	5.11373	0.0725179	0.29343245	2.2428348	20	—	—
11803 Turrini	13.7	X	205.49506	264.83317	202.53388	13.91695	0.1165189	0.18564912	3.0432722	20	8 7.3	18.7
11804 Zambon	14.8	X	49.03138	323.52106	325.16618	7.47174	0.2007621	0.23601134	2.5932684	20	10 26.1	18.5
11805 Novaković	14.2	X	352.35706	150.55600	201.48388	9.50122	0.1175859	0.18719360	3.0265095	20	10 5.1	17.8
11806 Thangjam	15.3	X	162.17479	339.27519	266.89697	2.52675	0.1096505	0.29169084	2.2517535	20	—	—
11807 Wannberg	13.9	X	2.44833	94.03766	188.62266	8.86101	0.1158611	0.18279149	3.0749076	20	7 17.9	17.8
11808 Platz	13.8	X	49.05459	153.26144	200.11242	7.39842	0.2379815	0.24128906	2.5553141	20	—	—
11809 Shinnaka	15.6	X	57.44632	325.00076	345.58385	4.70798	0.0622928	0.28976133	2.2617387	20	11 28.3	18.4
11810 Preusker	14.4	X	118.35404	53.06545	206.43211	4.16131	0.0725926	0.18978848	2.9988597	20	11 16.4	19.0
11811 Martinrubin	15.1	X	253.87876	202.15182	2.44814	3.42953	0.0926572	0.29596941	2.2299998	20	—	—
11812 Dongqiao	13.9	X	15.45758	313.57885	342.67144	9.20426	0.1167391	0.18484714	3.0520682	20	8 30.4	17.5
11813 Ingorichter	13.7	X	329.31916	95.33369	172.17654	6.17539	0.1017832	0.17968668	3.1102273	20	5 6.7	17.7
11814 Schwamb	14.1	X	301.89913	162.22261	175.34732	12.71321	0.0619413	0.18261545	3.0768834	20	6 30.2	18.4
11815 Viikinkoski	14.9	X	26.25305	1.57281	327.72552	3.47908	0.1684520	0.23781910	2.5801100	20	11 16.0	18.2
11816 Vasile	15.0	X	47.17289	69.14962	223.29214	6.77644	0.1939555	0.23658133	2.5891015	20	10 31.0	18.4
11817 Oguri	15.1	X	336.03431	125.46730	168.10675	6.07652	0.2073042	0.23145950	2.6271571	20	6 12.6	17.5
11818 Ulamec	13.9	X	22.05316	78.27710	279.90958	0.82104	0.0939087	0.19019281	2.9946080	20	11 25.8	17.9
11819 Millarca	14.5	X	321.24682	109.40498	289.85507	8.08588	0.1046325	0.18909459	3.0061915	20	10 12.7	18.3
11820 Mikiyasato	14.1	X	321.93898	162.53488	192.91649	10.45908	0.0699220	0.18528486	3.0472594	20	8 19.6	18.1
11821 Coleman	13.4	X	168.49448	98.93640	12.20029	9.59397	0.0438997	0.18263768	3.0766337	20	7 10.9	18.0
11822 1981 TK	13.7	X	240.37495	27.69448	8.27391	24.42360	0.2497217	0.27304690	2.3531226	20	5 31.0	17.9
11823 Christen	14.1	X	233.95348	321.33199	32.11355	4.87654	0.2484452	0.27022559	2.3694728	20	4 8.9	18.1
11824 Alpaidze	14.7	X	289.66297	352.87315	1.34820	1.72716	0.3071001	0.23026855	2.6362078	20	5 28.7	18.2
11825 1982 UW_1	12.2	X	267.42772	140.54809	197.63891	9.94888	0.1761970	0.17443080	3.1723950	20	5 2.8	16.9
11826 Yurijgromov	13.8	X	235.79703	11.13254	17.99377	1.72845	0.2004857	0.17335509	3.1855052	20	5 29.2	19.0
11827 Wasyuzan	14.9	X	306.52418	210.34685	227.64505	3.19403	0.1514232	0.28627862	2.2800451	20	12 13.8	16.6
11828 Vargha	14.2	X	45.60441	260.29352	345.46764	7.77230	0.2106625	0.27952648	2.3166162	20	9 5.4	16.8
11829 Tuvikene	14.6	X	201.15100	170.56691	333.62348	3.57772	0.1386261	0.28558757	2.2837217	20	9 30.4	17.7
11830 Jessenius	13.8	X	266.39863	113.66226	22.81491	8.74145	0.1773768	0.28933233	2.2639738	20	12 18.2	15.8
11831 1984 SF_3	13.7	X	48.93051	287.56155	144.92110	3.19206	0.1555708	0.22884997	2.6470906	20	—	—
11832 Pustylnik	14.5	X	251.24841	209.48872	96.25678	3.31748	0.2080471	0.26498242	2.4006269	20	2 28.5	18.3
11833 Dixon	15.2	X	76.52669	246.84201	241.27888	19.15418	0.0752411	0.35846085	1.9626441	20	3 21.6	17.6
11834 1985 RQ_3	14.1	X	291.22070	122.44821	160.63328	10.68560	0.2579720	0.21836527	2.7311591	20	3 8.0	18.1
11835 1985 RA_4	13.6	X	265.96446	306.99704	349.68561	7.25478	0.1017182	0.21647581	2.7470283	20	3 15.8	17.5
11836 Eileen	13.7	X	243.71017	289.79305	131.68617	22.47657	0.3508227	0.27399523	2.3476898	20	7 5.0	17.8
11837 1986 GD	14.0	X	331.16953	113.70957	45.07669	7.35138	0.1879354	0.25545525	2.4599493	20	—	—
11838 1986 PJ_1	14.8	X	62.88687	152.18793	129.36272	4.33575	0.2960794	0.23711516	2.5852140	20	11 17.2	18.9
11839 1986 QX_1	14.0	X	236.90796	266.51803	18.30788	3.17098	0.0989997	0.30763483	2.1732634	20	1 19.8	17.0
11840 1986 QR_2	13.9	X	325.44631	213.11749	145.20573	13.03195	0.2925281	0.23168725	2.6254351	20	8 23.5	15.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
11841 1986 *VW*	14.3	X	137.19777	323.69551	13.61686	6.20256	0.2018522	0.30096226	2.2052679	20	—	—
11842 Kap'bos	14.0	X	346.72031	172.91600	272.78325	3.69153	0.0947208	0.29199914	2.2501683	20	—	—
11843 1987 DM_6	14.8	X	275.65964	286.93137	192.03616	3.85833	0.1518119	0.28712087	2.2755840	20	12 13.3	16.8
11844 Ostwald	13.0	X	292.60044	259.06643	41.12127	1.32935	0.1671494	0.17449717	3.1715906	20	4 15.6	17.3
11845 1987 *RZ*	13.2	X	252.19076	224.83130	125.52450	2.03123	0.2107365	0.17271225	3.1934046	20	4 27.9	18.3
11846 Verminnen	13.6	X	336.69329	341.76760	92.99152	4.66642	0.1215302	0.24433937	2.5340027	20	—	—
11847 Winckelmann	13.5	X	114.76526	209.00958	329.18624	10.24201	0.0642842	0.22528315	2.6749576	20	8 7.0	17.3
11848 Paullouka	14.5	X	213.28823	344.77728	94.74611	1.21647	0.1263455	0.22819366	2.6521637	20	7 17.0	18.5
11849 Fauvel	13.6	X	354.56060	135.23947	230.86286	8.00497	0.1980012	0.23264360	2.6182351	20	11 18.9	16.0
11850 1988 EY_1	13.6	X	136.24363	136.83427	9.16272	12.74377	0.0968663	0.22288107	2.6941427	20	7 26.1	17.9
11851 1988 PD_1	14.1	X	305.66410	178.56676	172.37308	25.52206	0.2180885	0.27599912	2.3363124	20	7 7.1	17.1
11852 Shoumen	13.0	X	202.46625	23.96777	5.70961	24.25349	0.2320460	0.26757994	2.3850657	20	4 19.9	17.4
11853 Runge	14.3	X	232.91025	92.78180	10.95463	4.55392	0.0798670	0.27775474	2.3264572	20	9 22.8	17.1
11854 Ludwigrichter	14.2	X	227.30376	354.74808	356.02152	8.57234	0.1451703	0.26794030	2.3829267	20	4 3.2	17.8
11855 Preller	15.1	X	266.52425	201.08287	157.34416	2.51941	0.2440740	0.27183740	2.3600973	20	5 16.5	18.4
11856 Nicolabonev	15.3	X	205.95556	12.94989	8.39395	4.95994	0.2339568	0.26797969	2.3826932	20	4 20.0	19.5
11857 1988 RK_9	12.8	X	72.63937	175.07648	145.22099	14.27625	0.1383533	0.19223645	2.9733467	20	12 18.3	17.5
11858 1988 RC_{11}	13.4	X	183.47166	302.32700	125.66641	2.17224	0.1604237	0.17643345	3.1483435	20	6 1.3	18.4
11859 1988 SN_1	14.7	X	319.22228	210.77810	114.57642	7.54435	0.1651056	0.27467582	2.3438101	20	7 3.7	16.6
11860 Uedasatoshi	13.1	X	284.55072	247.54534	88.50621	2.41596	0.1764809	0.17700830	3.1415234	20	5 19.3	17.5
11861 Teruhime	11.2	X	284.46613	274.41951	63.96378	12.44169	0.1072315	0.17555022	3.1588946	20	5 31.7	15.4
11862 1988 XB_2	14.7	X	221.31573	15.63517	353.89162	3.11917	0.1968615	0.26698102	2.3886313	20	4 19.6	18.6
11863 1989 *EX*	13.4	X	215.61229	62.89505	135.20818	11.78837	0.1278076	0.24046883	2.5611215	20	12 20.9	17.1
11864 1989 NH_1	14.0	X	178.35944	184.55255	120.29698	5.88400	0.2032834	0.30383672	2.1913372	20	—	—
11865 1989 *SC*	14.3	X	174.39448	299.30307	354.57886	6.78354	0.2311857	0.30071659	2.2064688	20	—	—
11866 1989 SL_{12}	13.9	X	17.34630	134.76976	309.54364	0.83063	0.1633728	0.20004415	2.8954683	20	—	—
11867 1989 *TW*	15.0	X	90.17251	84.97611	284.68665	4.63831	0.1614229	0.29685013	2.2255869	20	—	—
11868 Kleinrichert	14.4	X	105.83865	268.49352	333.28184	9.20732	0.1368181	0.19218687	2.9738581	20	10 14.1	19.2
11869 1989 TS_2	11.5	X	273.29549	158.41959	149.67313	11.30835	0.0431029	0.08224711	5.2366751	20	4 26.8	18.5
11870 Sverige	13.5	X	200.06135	304.61565	167.98632	7.83108	0.1871290	0.18445161	3.0564297	20	8 6.9	18.6
11871 Norge	14.9	X	274.79013	19.42140	140.09696	5.40852	0.0743620	0.29411947	2.2393408	20	—	—
11872 1989 *WR*	14.3	X	10.06864	327.80849	25.69449	6.83724	0.1812160	0.28815664	2.2701277	20	12 11.2	16.8
11873 Kokuseibi	13.7	X	1.57274	318.88410	107.02363	7.40452	0.1355001	0.29113259	2.2546311	20	—	—
11874 Gringauz	15.0	X	45.84070	221.49865	150.04189	4.88274	0.1609824	0.29230802	2.2485829	20	—	—
11875 Rhône	12.1	X	67.57798	95.56934	87.16752	15.05877	0.1454355	0.17441994	3.1725268	20	6 21.7	16.3
11876 Doncarpenter	14.2	X	202.20221	92.50838	234.10058	5.40548	0.1554859	0.26007611	2.4307245	20	2 9.3	18.2
11877 1990 EL_8	13.6	X	335.37424	290.15565	352.28314	4.20880	0.0380586	0.26803961	2.3823381	20	6 8.6	16.4
11878 Hanamiyama	14.3	X	76.78292	112.40504	50.14724	3.90424	0.1440882	0.26608883	2.3939677	20	6 8.6	17.2
11879 1990 QR_1	14.2	X	163.20343	194.85264	129.44940	1.13590	0.0660311	0.21212979	2.7844213	20	1 2.3	18.0
11880 1990 QQ_4	13.4	X	235.85316	319.80649	25.40798	7.62556	0.0678229	0.22114497	2.7082246	20	4 15.5	17.2
11881 Mirstation	14.0	X	320.43664	178.69752	157.35139	13.70071	0.1738218	0.22785450	2.6547949	20	7 16.9	17.0
11882 1990 RA_3	14.4	X	230.24713	149.44314	233.56515	1.14105	0.1005896	0.22248380	2.6973489	20	5 24.9	18.3
11883 1990 RD_5	13.6	X	153.10246	168.57525	241.60279	4.18789	0.0548240	0.21795142	2.7346153	20	4 2.7	17.5
11884 1990 RD_6	13.7	X	0.52559	321.04089	343.00035	12.38631	0.1727433	0.23001370	2.6381546	20	8 27.9	16.3
11885 Summanus	18.5	X	70.10902	116.08039	359.85796	19.41790	0.4749022	0.44338320	1.7032689	20	5 3.8	19.9
11886 Kraske	14.8	X	199.64378	345.92435	352.91696	4.08174	0.1635855	0.21525003	2.7574474	20	2 28.5	19.4
11887 Echemmon	10.8	X	239.08866	111.46644	242.64975	24.04471	0.0918745	0.08355362	5.1819420	20	5 1.7	18.0
11888 1990 UD_3	14.2	X	192.78197	142.27205	227.82912	7.86051	0.2918368	0.21651516	2.7466954	20	3 28.2	19.3
11889 1991 AH_2	12.4	X	223.95508	215.47558	120.81534	19.09731	0.1806044	0.21485359	2.7608383	20	3 23.0	17.3
11890 1991 *FF*	12.9	X	9.52500	209.42038	337.58451	17.81474	0.0472003	0.16966230	3.2315620	20	3 19.9	17.4
11891 1991 FJ_2	14.7	X	240.45684	357.17409	186.65371	2.98005	0.0937108	0.29351775	2.2424003	20	—	—
11892 1991 FT_2	15.1	X	12.77883	80.61424	9.33871	4.06409	0.0688417	0.29777711	2.2209657	20	—	—
11893 1991 FZ_2	13.5	X	192.02121	1.61989	175.82526	6.32299	0.0339516	0.18602167	3.0392075	20	10 29.7	17.8
11894 1991 *GW*	14.2	X	4.40307	172.72606	38.27992	7.95327	0.1882837	0.27235178	2.3571247	20	4 6.7	15.9
11895 Dehant	14.4	X	266.73246	122.18370	196.47341	6.89104	0.0942479	0.27220949	2.3579461	20	4 12.1	17.2
11896 Camelbeeck	15.4	X	271.92213	33.05367	193.47643	2.00024	0.1641225	0.26391546	2.4070928	20	—	—
11897 Lemaire	14.7	X	222.90899	138.48687	28.22542	5.17891	0.1088870	0.28892050	2.2661248	20	12 1.9	17.4
11898 Dedeyn	13.2	X	29.54110	51.78589	129.30182	2.09823	0.1066743	0.17013757	3.2255410	20	4 19.6	17.3
11899 Weill	13.0	X	62.22002	146.22982	41.21968	9.78532	0.0240575	0.17434442	3.1734428	20	6 1.7	17.4
11900 Spinoy	14.9	X	217.43411	222.74472	101.49278	3.40493	0.1883447	0.26350385	2.4095988	20	2 22.7	18.7
11901 1991 PV_{11}	13.7	X	317.78346	94.40507	147.01169	13.08806	0.1597013	0.26238414	2.4164491	20	2 26.5	16.5
11902 1991 PZ_{12}	14.4	X	153.72490	80.92357	322.01915	5.55225	0.1320464	0.25992426	2.4316711	20	3 27.7	18.1
11903 1991 RD_7	12.9	X	359.03956	354.37354	3.65294	16.32046	0.1809328	0.24009288	2.5637944	20	11 8.6	15.8
11904 1991 TR_1	15.0	X	290.69772	145.67103	223.63891	19.63057	0.0992331	0.37021618	1.9208751	20	7 31.2	17.2
11905 Giacometti	14.3	X	352.83697	204.73392	205.68072	13.27471	0.1630014	0.24059545	2.5602229	20	—	—
11906 1992 AE_1	13.3	X	100.49342	27.03571	97.45900	10.69148	0.1941605	0.21796095	2.7345356	20	5 27.4	17.4
11907 Näränen	13.3	X	184.00454	237.27974	65.34628	2.98281	0.0520516	0.20577682	2.8414395	20	—	—
11908 Nicaragua	13.6	X	101.86641	144.67617	68.34299	2.38554	0.0685964	0.18542440	3.0457304	20	9 2.2	18.0
11909 1992 HD_5	12.6	X	274.11884	293.93380	39.74555	17.91297	0.1672832	0.17728868	3.1382103	20	5 3.8	17.1
11910 1992 *KJ*	14.4	X	192.62073	47.95516	197.94745	2.99745	0.1562170	0.30016276	2.2091821	20	—	—
11911 Angel	11.8	X	222.87079	221.42724	152.28100	20.15940	0.1575603	0.17259558	3.1948436	20	5 7.8	17.3
11912 Piedade	14.4	X	1.73217	94.30239	181.96989	3.35363	0.1390511	0.28031584	2.3122651	20	7 18.6	16.4
11913 Svarna	14.9	X	358.87787	77.61742	325.65144	5.01672	0.1594935	0.28868700	2.2673465	20	—	—
11914 Sinachopoulos	15.2	X	101.38708	47.42245	205.15863	0.66346	0.1201627	0.28678718	2.2773489	20	11 9.3	18.3
11915 Nishiinoue	14.8	X	297.77474	284.44326	87.77448	5.38725	0.1971603	0.27900105	2.3195237	20	8 1.4	16.8
11916 Wiesloch	14.2	X	104.08974	300.02885	178.49569	6.23581	0.0642107	0.27039551	2.3684800	20	5 3.9	17.1
11917 1992 *UX*	14.2	X	273.41661	305.42806	66.76242	7.63108	0.1273003	0.27525858	2.3405009	20	7 1.4	16.9
11918 1992 *UY*	14.8	X	314.54041	207.02750	179.56600	6.52446	0.1815238	0.28056441	2.3108991	20	10 6.4	16.4
11919 1992 UD_2	14.3	X	244.77824	337.19220	45.70178	26.20919	0.2602668	0.27376992	2.3489777	20	5 20.0	18.2
11920 1992 UY_2	14.6	X	321.54472	212.32529	205.16682	4.97951	0.0734781	0.28344261	2.2952287	20	12 7.9	16.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
11921 Mitamasahiro	12.8	X	67.94179	189.77960	233.74088	14.24448	0.0165068	0.22308976	2.6924623	20	—	—
11922 1992 UT_3	14.0	X	301.95105	18.97222	58.31295	6.20334	0.1363138	0.28257582	2.2999199	20	12 1.1	15.8
11923 1992 WX	13.7	X	280.00716	209.65128	131.00526	5.73295	0.2080408	0.27272889	2.3549514	20	5 14.7	16.7
11924 1992 WS_3	14.6	X	175.48119	144.71982	316.81272	2.17843	0.1894533	0.27040110	2.3684474	20	7 7.6	18.5
11925 Usubae	15.2	X	200.98249	245.22694	172.05252	2.19705	0.1936751	0.26989063	2.3714329	20	6 3.0	18.9
11926 Orinoco	14.0	X	130.88456	286.69437	86.15704	7.96352	0.0983707	0.25745893	2.4471697	20	1 23.1	17.2
11927 Mount Kent	12.6	X	72.60484	183.53643	113.93033	14.78836	0.0640435	0.23966013	2.5668797	20	11 24.5	16.4
11928 Akimotohiro	13.3	X	116.63314	195.62281	328.64394	5.43039	0.2071913	0.23002117	2.6380975	20	8 3.5	17.5
11929 Uchino	13.7	X	255.64122	72.94745	138.41784	8.16610	0.2129664	0.21151309	2.7898309	20	—	—
11930 Osamu	13.6	X	239.64534	345.45523	161.44315	13.36252	0.0977219	0.23957373	2.5674968	20	11 21.9	17.2
11931 1993 DD_2	12.9	X	287.18812	66.08591	13.90576	14.79243	0.0679992	0.23745156	2.5827718	20	10 28.2	16.1
11932 1993 EP	13.5	X	200.71908	179.44219	344.80195	12.78165	0.1226538	0.23640063	2.5904207	20	10 16.4	17.6
11933 Himuka	12.8	X	52.46466	226.43389	1.84098	11.43463	0.1910889	0.22550355	2.6732144	20	8 15.8	16.3
11934 Lundgren	14.0	X	341.86323	295.80669	138.55359	2.16200	0.1351799	0.24262977	2.5458921	20	—	—
11935 Olakarlsson	14.3	X	233.68286	211.41490	76.47025	3.80623	0.1850982	0.21308417	2.7761010	20	1 28.7	18.9
11936 Tremolizzo	14.0	X	302.52222	81.18896	81.09666	3.66669	0.0705127	0.24601211	2.5225032	20	—	—
11937 1993 FF_{16}	14.5	X	269.96147	235.57480	55.75107	5.69437	0.0911593	0.21784414	2.7355130	20	3 18.2	18.4
11938 1993 FZ_{26}	14.5	X	191.06963	90.59047	223.28191	3.59096	0.0588727	0.21231573	2.7827953	20	1 18.7	18.7
11939 1993 FH_{36}	13.4	X	9.18718	213.22172	178.70953	8.97169	0.1663122	0.23917187	2.5703720	20	—	—
11940 1993 GR	13.4	X	268.21874	172.25072	39.53228	4.27279	0.1230638	0.20904532	2.8117438	20	—	—
11941 Archinal	14.2	X	287.33755	211.68569	77.44837	25.09909	0.0502306	0.36164108	1.9511210	20	4 15.7	16.9
11942 Guettard	13.7	X	193.28713	40.51569	244.23772	0.80072	0.0540426	0.20226992	2.8741881	20	—	—
11943 Davidhartley	12.4	X	92.79410	301.80876	300.90309	8.94116	0.0515156	0.18831460	3.0144868	20	9 21.2	16.9
11944 Shaftesbury	13.3	X	201.76492	135.47065	128.93954	2.97750	0.0186414	0.20089983	2.8872408	20	—	—
11945 Amsterdam	13.2	X	23.74686	158.64655	168.23879	10.42786	0.1224408	0.18593598	3.0401413	20	10 25.4	17.2
11946 Bayle	13.1	X	347.48983	80.00895	174.17345	0.51993	0.1473479	0.17673826	3.1447226	20	5 13.9	16.6
11947 Kimclijsters	13.7	X	248.61608	227.48368	90.39107	0.19777	0.2094290	0.17232763	3.1981545	20	3 17.1	18.9
11948 Justinehénin	13.2	X	340.35916	76.18500	159.14597	1.89182	0.1190716	0.17240559	3.1971903	20	4 9.5	17.2
11949 Kagayayutaka	11.8	X	231.56701	249.82805	225.88806	7.62314	0.1816253	0.18201754	3.0836179	20	9 7.6	16.8
11950 Morellet	13.5	X	111.63353	351.00754	134.80870	1.94008	0.1366343	0.17091948	3.2156961	20	6 1.9	18.2
11951 1994 AJ_3	13.0	X	100.43292	312.50260	161.27022	4.42881	0.1345290	0.12501540	3.9612024	20	5 7.6	18.7
11952 1994 AM_3	14.1	X	307.77553	166.32982	2.42348	6.75823	0.0858863	0.29795138	2.2200996	20	—	—
11953 1994 BW	15.1	X	63.29185	124.56337	104.72825	7.30805	0.0931238	0.27837100	2.3230223	20	8 20.2	17.9
11954 1994 BY	14.6	X	320.21304	108.34363	35.77647	5.16002	0.1099857	0.29691873	2.2252441	20	—	—
11955 Russrobb	15.2	X	268.15747	68.62065	195.85541	4.48697	0.0687445	0.26534721	2.3984262	20	2 3.8	18.4
11956 Tamarakate	14.5	X	333.37488	263.99044	107.07160	5.32083	0.1128518	0.28224611	2.3017107	20	10 24.9	16.6
11957 1994 DS	14.4	X	318.12898	33.22325	52.15482	4.50141	0.1112655	0.28866901	2.2674407	20	—	—
11958 Galiani	14.0	X	336.70011	293.23760	89.98603	5.99762	0.1436953	0.28444702	2.2898224	20	11 21.1	15.9
11959 Okunokeno	13.8	X	19.03754	69.97360	142.35002	13.29487	0.1534424	0.22889167	2.6467691	20	5 18.4	16.8
11960 1994 HA	13.6	X	54.25750	71.69835	200.93817	14.33280	0.1434117	0.23671551	2.5881230	20	10 6.2	17.1
11961 1994 PO	13.1	X	194.58269	242.96663	317.10560	12.34933	0.1033348	0.23889904	2.5723286	20	11 29.5	17.0
11962 1994 PX	13.6	X	186.41048	193.27070	155.47825	13.19019	0.1506615	0.21164985	2.7886290	20	2 28.5	18.1
11963 Ignace	14.1	X	25.18172	216.88032	313.16357	6.12789	0.0585855	0.21446741	2.7641515	20	3 19.1	17.7
11964 Prigogine	14.4	X	71.28618	107.82195	206.63151	1.59431	0.0772041	0.19662708	2.9289177	20	12 2.5	18.6
11965 Catullus	14.0	X	130.94165	271.42773	343.01873	11.00589	0.2244845	0.19907524	2.9048556	20	11 25.5	19.3
11966 Plateau	14.0	X	192.01766	22.74545	266.16384	0.99265	0.0378251	0.20648353	2.8349524	20	—	—
11967 Boyle	13.6	X	26.39340	207.66104	345.54639	3.91090	0.0221843	0.21695419	2.7429887	20	4 20.4	17.3
11968 Demariotte	13.7	X	80.70351	128.71908	10.04617	4.68432	0.0541727	0.21745668	2.7387615	20	4 27.5	17.4
11969 Gay–Lussac	14.1	X	113.87784	128.11837	297.10706	2.49323	0.0822137	0.21258611	2.7804353	20	3 10.5	18.1
11970 Palitzsch	14.1	X	251.39174	262.98989	178.77210	4.17360	0.0395620	0.18622289	3.0370178	20	9 9.8	18.2
11971 1994 UJ_2	12.6	X	8.53240	328.33674	55.56513	14.02457	0.1505386	0.19178324	2.9780292	20	12 15.5	16.4
11972 1994 VK	13.9	X	135.07637	70.86419	16.25368	5.23660	0.1332360	0.17188551	3.2036363	20	5 8.0	18.9
11973 1994 VN	13.9	X	156.70137	67.31725	25.29591	4.55528	0.1681651	0.17387643	3.1791345	20	6 6.6	19.1
11974 Yasuhidefujita	13.1	X	286.99904	263.20715	119.97321	2.39095	0.2052487	0.17899398	3.1182464	20	7 17.9	17.3
11975 1995 FA_1	15.5	X	295.90274	30.42851	217.28514	1.63806	0.1283235	0.31033321	2.1606473	20	2 2.0	18.0
11976 Josephthurn	14.4	X	120.74693	49.55014	35.25959	21.68578	0.0527887	0.35400101	1.9790938	20	4 6.8	16.6
11977 Leonrisoldi	13.7	X	265.12826	150.91650	274.72409	6.15200	0.0848624	0.27761661	2.3272288	20	9 9.6	16.4
11978 Makotomasako	14.1	X	243.24876	38.03963	46.03782	4.73697	0.3038843	0.23210368	2.6222939	20	8 6.3	18.3
11979 1995 SS_5	15.1	X	80.29775	91.60942	207.49071	13.37469	0.1693979	0.24072863	2.5592785	20	12 11.8	19.2
11980 Ellis	14.9	X	218.60902	91.51643	172.62400	6.43269	0.1070710	0.25512051	2.4621006	20	—	—
11981 Boncompagni	14.3	X	167.08739	158.29819	321.65957	4.68823	0.0630009	0.22751835	2.6574092	20	7 22.1	18.0
11982 1995 UF_6	13.9	X	275.76853	275.17544	48.55764	12.48581	0.1914611	0.22546653	2.6735070	20	4 21.3	17.7
11983 1995 UH_6	14.0	X	199.04068	337.34301	34.36983	6.63612	0.0447568	0.21939768	2.7225845	20	4 9.3	17.9
11984 Manet	14.7	X	4.09979	345.05664	301.30384	1.49694	0.0824447	0.23120488	2.6290855	20	7 30.7	17.5
11985 1995 VG	13.2	X	98.09465	173.86961	282.23636	1.94041	0.0493619	0.21511194	2.7586274	20	3 25.1	16.9
11986 1995 VP	13.2	X	316.65669	308.18107	254.21488	6.08402	0.0558537	0.21083645	2.7957967	20	1 25.7	17.0
11987 Yonematsu	12.9	X	103.17768	91.47862	70.83228	13.74762	0.0917182	0.22201526	2.7011425	20	7 4.2	16.8
11988 1995 WB	13.8	X	259.47329	324.45090	107.98326	2.45617	0.1174921	0.23102150	2.6304766	20	9 3.7	17.2
11989 1995 WN_5	13.3	X	150.65608	2.09898	66.98343	6.12008	0.0326263	0.21717808	2.7411032	20	4 25.6	17.1
11990 1995 WM_6	13.7	X	166.48261	281.37560	196.68331	3.32237	0.1752661	0.22465444	2.6799460	20	7 17.9	18.2
11991 1995 WK_7	13.8	X	190.27751	325.53008	66.14652	6.25412	0.0027413	0.21781529	2.7357546	20	4 25.6	17.5
11992 1995 XH	13.6	X	170.71759	311.90838	53.29354	4.21854	0.1058288	0.21197624	2.7857657	20	3 4.5	17.8
11993 1995 XX	13.1	X	350.21714	251.05229	30.83500	9.50697	0.0467947	0.18162798	3.0880255	20	6 28.5	17.3
11994 1995 YP	13.3	X	207.49287	151.18471	112.72669	3.21190	0.0122733	0.20272006	2.8699317	20	—	—
11995 1995 YB_1	13.1	X	58.77424	91.69356	119.91044	5.84480	0.0967819	0.17860403	3.1227835	20	7 10.1	17.1
11996 1995 YC_1	13.3	X	33.44038	187.04156	108.77363	17.19200	0.0612253	0.18672756	3.0315432	20	9 26.6	17.7
11997 Fassel	14.0	X	7.10264	60.29453	289.51956	9.27015	0.0627785	0.18893606	3.0078729	20	10 17.1	18.2
11998 Fermilab	14.2	X	309.58979	256.47207	87.29852	4.24162	0.2439695	0.18311951	3.0712345	20	6 24.6	17.7
11999 1996 BV_1	14.0	X	104.23072	159.25983	337.67895	9.35025	0.2739748	0.21405035	2.7677408	20	6 23.7	18.6
12000 1996 CK_2	12.8	X	184.03096	161.08901	13.03440	11.88214	0.0884201	0.18666215	3.0322514	20	10 11.1	17.4