Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
88001 2000 UQ_{37}	15.0	X	20.98842	255.75021	181.80398	1.89943	0.0899172	0.19713111	2.9239230	21	—	—
88002 2000 UJ_{39}	15.3	X	33.53714	239.96692	165.83268	2.02284	0.1128738	0.19549675	2.9401965	21	—	—
88003 2000 UV_{39}	14.3	X	166.26988	351.38468	137.70552	1.67930	0.1391588	0.17322790	3.1870643	21	7 23.9	19.5
88004 2000 UQ_{42}	15.7	X	317.08757	176.33583	199.47774	4.47722	0.2003037	0.22994623	2.6386707	21	8 20.1	18.3
88005 2000 UR_{44}	14.1	X	291.51526	18.62510	50.95519	13.71000	0.0221315	0.18407305	3.0606188	21	10 15.1	18.4
88006 2000 UF_{47}	15.2	X	6.92647	245.54085	130.72801	2.38688	0.1650158	0.23620846	2.5918255	21	12 7.5	18.0
88007 2000 UK_{47}	14.9	X	10.89425	272.00535	59.10871	1.10406	0.2197942	0.18456976	3.0551253	21	10 9.1	18.1
88008 2000 UE_{48}	15.1	X	78.37755	241.32022	138.67014	2.65414	0.0904919	0.19740247	2.9212429	21	—	—
88009 2000 UE_{54}	14.1	X	224.07208	53.53697	76.64545	11.53529	0.1094339	0.18140830	3.0905180	21	9 28.0	18.9
88010 2000 UJ_{56}	14.9	X	285.84677	344.43401	59.36704	14.35677	0.1136431	0.22780054	2.6552141	21	8 29.3	18.5
88011 2000 UT_{56}	15.7	X	253.37908	42.03267	262.07680	2.40177	0.0521057	0.21358757	2.7717373	21	3 7.3	19.6
88012 2000 UY_{56}	15.5	X	57.08480	286.36399	357.77225	12.20757	0.1673504	0.23515587	2.5995539	21	10 15.2	19.0
88013 2000 UZ_{58}	15.6	X	223.12773	47.43780	273.51679	3.22766	0.0638901	0.21159486	2.7891121	21	2 21.7	19.8
88014 2000 UY_{59}	15.3	X	51.98256	0.17299	345.02196	5.18653	0.1522665	0.24040884	2.5615476	21	12 28.7	18.9
88015 2000 UC_{61}	14.0	X	282.24360	117.71237	11.89875	11.38505	0.1118673	0.19135270	2.9824945	21	11 29.6	18.1
88016 2000 UG_{61}	15.0	X	240.12248	319.25467	12.06695	12.67068	0.1905633	0.21617699	2.7495591	21	3 19.7	19.4
88017 2000 UD_{63}	14.7	X	87.43415	231.06637	244.18138	7.98657	0.1236904	0.21089753	2.7952569	21	4 5.0	18.5
88018 2000 UJ_{66}	15.9	X	164.65910	47.10321	338.57018	2.45425	0.1019379	0.21157545	2.7892827	21	3 13.4	20.1
88019 2000 UT_{66}	15.4	X	282.27683	74.51068	264.86770	8.43189	0.1242519	0.22217583	2.6998409	21	5 16.8	19.0
88020 2000 UC_{67}	15.7	X	200.86588	117.58178	248.50998	4.29133	0.0883921	0.21392822	2.7687941	21	3 24.3	20.0
88021 2000 UZ_{69}	14.9	X	211.47722	79.13803	240.44893	7.96603	0.1567959	0.20991780	2.8039475	21	2 6.0	19.6
88022 2000 UG_{71}	15.4	X	321.02966	329.19376	20.38449	5.75899	0.1940697	0.22827701	2.6515181	21	7 23.5	18.2
88023 2000 UR_{72}	14.4	X	289.54243	143.15121	286.01635	10.33321	0.0483779	0.18283144	3.0744597	21	9 28.2	18.8
88024 2000 UU_{75}	15.3	X	250.81455	216.66309	100.40309	10.65772	0.2563181	0.21482619	2.7610730	21	3 10.3	20.1
88025 2000 UT_{79}	14.6	X	186.76658	185.22676	243.09380	10.13736	0.3140990	0.21641129	2.7475742	21	5 29.2	19.6
88026 2000 UB_{80}	14.8	X	234.39524	97.55683	239.39073	12.00364	0.2272582	0.21377327	2.7701319	21	3 13.1	19.8
88027 2000 UD_{81}	15.2	X	219.13123	113.77538	247.55175	6.52245	0.1330453	0.21417184	2.7666940	21	4 4.3	19.7
88028 2000 UD_{83}	14.3	X	138.57078	281.83885	68.65045	9.51596	0.0980655	0.15645228	3.4109979	21	1 12.9	19.4
88029 2000 UN_{83}	15.9	X	148.18364	136.46499	276.62432	1.27522	0.0649595	0.21367496	2.7709815	21	3 25.5	19.9
88030 2000 UN_{86}	15.3	X	329.92124	232.05973	142.75433	2.66880	0.1487215	0.23152337	2.6266739	21	9 22.8	18.0
88031 2000 UP_{87}	13.4	X	48.26069	143.74777	83.49845	11.94092	0.0858734	0.17235001	3.1978777	21	7 5.6	17.6
88032 2000 UR_{87}	14.4	X	0.43375	21.83430	210.80632	18.50634	0.0703816	0.16922037	3.2371858	21	5 1.5	18.6
88033 2000 UL_{91}	15.8	X	201.97966	36.80239	302.13318	3.95214	0.1624020	0.21200050	2.7855532	21	2 22.3	20.4
88034 2000 UR_{93}	15.4	X	138.02034	27.39226	331.16271	5.34446	0.0875068	0.20402257	2.8577040	21	1 11.5	19.5
88035 2000 UA_{95}	14.5	X	113.11059	287.25448	267.95092	9.16558	0.0264492	0.17704868	3.1410457	21	8 6.8	19.1
88036 2000 UT_{95}	15.2	X	146.82300	17.37309	334.02178	5.40431	0.0783333	0.20381269	2.8596655	21	1 11.8	19.3
88037 2000 UL_{96}	15.4	X	222.72840	37.21654	301.39564	4.63046	0.1118451	0.21271357	2.7793245	21	3 12.4	19.8
88038 2000 UB_{97}	15.3	X	180.53056	45.94032	328.03466	3.62663	0.0853263	0.21094144	2.7948689	21	3 14.1	19.6
88039 2000 UQ_{100}	13.9	X	358.84250	37.77419	31.34641	9.91707	0.0592584	0.19230592	2.9726306	21	—	—
88040 2000 UU_{100}	14.5	X	348.19418	340.38485	35.16949	11.49089	0.0189494	0.18393104	3.0621940	21	10 17.9	18.6
88041 2000 UM_{102}	14.5	X	287.02229	10.25847	324.02468	4.62243	0.1598193	0.17364683	3.1819363	21	5 13.5	19.1
88042 2000 UT_{103}	15.3	X	264.66928	353.66981	346.22849	4.68912	0.2549084	0.21891692	2.7265690	21	4 11.8	19.8
88043 2000 UE_{110}	14.4	X	66.19195	217.91784	251.57912	52.02395	0.2984310	0.20058473	2.8902638	21	3 4.4	18.9
88044 2000 UP_{111}	15.4	X	9.60218	105.43283	175.65771	12.65314	0.2417106	0.22869268	2.6483042	21	7 26.9	17.7
88045 2000 VC_{5}	15.4	X	172.39520	286.05045	52.34342	2.62788	0.0694499	0.20653451	2.8344859	21	1 22.6	19.6
88046 2000 VM_{5}	14.5	X	173.89827	139.15622	17.10246	0.88112	0.1490612	0.17857521	3.1231195	21	9 2.4	19.6
88047 2000 VR_{7}	15.1	X	212.31262	97.06072	228.31340	7.44398	0.1009236	0.21020046	2.8014332	21	2 13.8	19.6
88048 2000 VO_{13}	14.5	X	240.82316	43.13474	81.84725	7.08782	0.1120723	0.18362407	3.0656058	21	10 7.3	19.0
88049 2000 VB_{15}	15.3	X	232.42361	108.65348	210.69865	8.13693	0.1450856	0.21155332	2.7894772	21	2 24.6	20.0
88050 2000 VL_{15}	15.2	X	143.32174	348.99583	64.43380	4.32719	0.1782895	0.21021209	2.8013299	21	4 3.6	19.6
88051 2000 VM_{16}	15.4	X	136.24282	239.45246	151.96933	2.40672	0.0713627	0.20624067	2.8371775	21	2 15.1	19.2
88052 2000 VP_{16}	15.6	X	189.58970	201.22274	185.18880	4.97470	0.1685036	0.21363076	2.7713637	21	4 10.6	20.1
88053 2000 VE_{18}	15.4	X	159.43311	248.29343	148.94913	4.56955	0.1067535	0.21008587	2.8024518	21	3 24.3	19.6
88054 2000 VK_{27}	15.1	X	232.54673	238.00595	127.27526	4.41416	0.2091553	0.21722474	2.7407107	21	4 21.8	19.7
88055 2000 VA_{28}	15.2	X	241.64373	267.72309	106.22232	6.73687	0.1047109	0.21818406	2.7326711	21	5 19.1	19.2
88056 2000 VV_{33}	14.5	X	325.84183	213.73480	187.04239	1.94851	0.1456529	0.18347341	3.0672838	21	10 13.1	17.8
88057 2000 VQ_{35}	14.5	X	30.26501	2.65230	62.88028	11.79346	0.1235052	0.19511060	2.9440745	21	—	—
88058 2000 VG_{40}	15.4	X	173.68646	91.46825	341.96489	6.75219	0.0994357	0.21838275	2.7310134	21	5 19.3	19.6
88059 2000 VT_{40}	15.5	X	259.15697	30.94939	266.97869	2.24243	0.0919353	0.21326662	2.7745174	21	3 2.5	19.6
88060 2000 VO_{44}	14.4	X	273.50692	137.21459	247.15413	14.26893	0.1119478	0.22334041	2.6904474	21	7 5.5	18.2
88061 2000 VG_{45}	14.7	X	1.99549	247.87057	76.90323	5.54024	0.1798345	0.18285287	3.0742194	21	9 10.8	18.0
88062 2000 VX_{45}	15.7	X	246.70075	131.69086	225.58434	3.92825	0.1735408	0.21900515	2.7258366	21	4 24.9	20.1
88063 2000 VP_{46}	14.0	X	352.09291	31.76060	25.51920	10.26724	0.0466339	0.18947233	3.0021947	21	12 13.2	18.1
88064 2000 VR_{46}	13.9	X	184.50426	273.30383	256.24704	21.87277	0.3631435	0.17759918	3.1345515	21	9 12.1	20.3
88065 2000 VH_{47}	14.3	X	39.61673	101.60690	289.85653	9.19515	0.0909028	0.19267349	2.9688488	21	—	—
88066 2000 VX_{47}	15.4	X	132.11527	198.78067	143.86952	2.07833	0.0664116	0.20079657	2.8882305	21	—	—
88067 2000 VM_{49}	15.6	X	219.92489	125.18193	244.61040	8.02028	0.3300005	0.21689507	2.7434872	21	4 9.0	20.8
88068 2000 VX_{49}	14.2	X	189.86450	199.22867	275.53527	4.62374	0.1183297	0.17220222	3.1997070	21	7 28.3	19.2
88069 2000 VY_{50}	14.0	X	24.72136	81.95590	238.83015	20.73065	0.1405499	0.18536009	3.0464349	21	10 3.4	18.1
88070 2000 VN_{53}	14.9	X	200.98806	96.32606	251.41035	8.07915	0.1787882	0.21132035	2.7915270	21	3 1.1	19.7
88071 Taniguchijiro	14.2	X	160.84081	241.90951	127.51552	22.57007	0.1884951	0.15919841	3.3716583	21	3 6.2	19.9
88072 2000 WB	14.8	X	276.79770	355.50596	87.39159	2.56674	0.1235757	0.18167602	3.0874811	21	9 25.0	18.9
88073 2000 WB_{4}	14.3	X	176.80473	221.47105	262.35316	21.25440	0.0440584	0.22310622	2.6923298	21	7 22.3	18.5
88074 2000 WG_{5}	14.6	X	26.15242	33.48529	15.04479	9.65820	0.0478674	0.19347701	2.9606232	21	—	—
88075 2000 WL_{8}	15.7	X	354.94032	6.08177	39.27211	5.83218	0.3022301	0.23617765	2.5920509	21	—	—
88076 2000 WP_{13}	14.7	X	109.71820	83.20473	300.28892	7.42899	0.0998731	0.20178633	2.8787783	21	1 9.6	18.5
88077 2000 WG_{14}	15.2	X	195.89223	19.28756	340.55077	3.20594	0.1090623	0.20998196	2.8033763	21	3 13.8	19.6
88078 2000 WX_{14}	14.6	X	306.58686	4.01481	57.71020	12.43139	0.1055250	0.18308869	3.0715791	21	10 16.8	18.5
88079 2000 WP_{15}	15.0	X	185.58246	231.11327	253.89866	0.11303	0.1256576	0.17449034	3.1716733	21	8 6.3	19.9
88080 2000 WG_{17}	14.0	X	182.05741	103.17738	66.67615	16.49746	0.0317372	0.18046297	3.1013015	21	10 8.4	18.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
88081 2000 WJ_{23}	14.9	X	280.59772	272.27738	119.09051	7.13114	0.1657443	0.22568359	2.6717925	21	7 18.7	18.3
88082 2000 WJ_{25}	14.1	X	38.02601	181.71954	72.52075	28.72357	0.1135048	0.17541123	3.1605630	21	8 2.8	18.6
88083 2000 WF_{28}	14.0	X	85.42412	148.79046	236.35279	27.68265	0.3015579	0.24218334	2.5490198	21	—	—
88084 2000 WT_{32}	15.4	X	41.86500	242.78193	161.99827	5.56733	0.2291431	0.24278469	2.5448090	21	—	—
88085 2000 WY_{34}	14.4	X	246.46989	298.83485	124.21675	9.93801	0.0742973	0.17439510	3.1728280	21	7 29.2	18.9
88086 2000 WC_{35}	14.6	X	332.78776	204.12734	161.70226	7.41980	0.2485202	0.18147376	3.0897748	21	8 30.5	17.5
88087 2000 WW_{41}	14.5	X	357.61192	240.89961	124.93006	11.66743	0.0677413	0.18149414	3.0895435	21	10 23.8	18.7
88088 2000 WS_{47}	15.2	X	286.77845	178.14600	164.18710	4.39688	0.2646281	0.22129776	2.7069778	21	5 8.5	19.1
88089 2000 WD_{48}	14.4	X	321.06351	285.01189	113.90759	10.66380	0.1462620	0.18078605	3.0976054	21	10 6.9	18.2
88090 2000 WE_{48}	13.8	X	271.35254	118.89018	248.42441	13.70708	0.0855185	0.16992580	3.2282203	21	6 16.8	18.4
88091 2000 WG_{48}	15.0	X	316.86410	205.01988	212.25640	5.22806	0.2098723	0.23101042	2.6305607	21	10 23.5	17.0
88092 2000 WL_{50}	15.6	X	280.27214	203.64342	173.27653	9.58449	0.2765395	0.22467355	2.6797940	21	6 12.8	19.7
88093 2000 WJ_{54}	15.6	X	329.08168	231.68339	157.62329	6.71263	0.1655795	0.23192844	2.6236146	21	10 13.6	18.1
88094 2000 WT_{55}	12.9	X	299.80419	66.32858	307.88042	15.65947	0.1293997	0.17076592	3.2176237	21	7 28.0	17.0
88095 2000 WZ_{60}	15.1	X	238.23147	283.34491	91.94630	8.54159	0.2403061	0.21788489	2.7351720	21	5 7.6	19.7
88096 2000 WQ_{62}	14.3	X	313.90346	37.08016	349.75238	13.93013	0.1940098	0.22684398	2.6626733	21	9 3.6	16.8
88097 2000 WU_{62}	14.8	X	330.35562	267.08950	149.64748	13.34574	0.2148772	0.23545552	2.5973479	21	11 29.5	17.3
88098 2000 WA_{69}	15.1	X	109.32768	130.77845	321.22967	7.30285	0.1608631	0.21072474	2.7967847	21	4 7.9	19.1
88099 2000 WJ_{72}	14.9	X	212.63146	27.66670	286.12705	6.93966	0.2138420	0.20937671	2.8087762	21	2 1.9	19.8
88100 2000 WB_{73}	14.2	X	327.65619	40.83347	261.80346	9.23774	0.2040790	0.17634819	3.1493582	21	5 26.2	17.7
88101 2000 WV_{77}	14.8	X	9.14985	84.74286	267.21710	8.54758	0.0842806	0.18449714	3.0559269	21	10 15.7	18.8
88102 2000 WA_{79}	14.2	X	131.78634	306.28302	269.02865	8.38468	0.0590417	0.18097551	3.0954432	21	9 25.0	18.9
88103 2000 WJ_{81}	15.0	X	39.46341	80.28352	301.09435	3.36749	0.0931208	0.19161176	2.9798056	21	—	—
88104 2000 WT_{81}	14.3	X	52.01034	95.07715	257.28640	8.60916	0.0791397	0.18964845	3.0003357	21	12 16.7	18.4
88105 2000 WZ_{88}	15.2	X	201.79728	336.01024	47.07333	3.13158	0.0927634	0.21378250	2.7700522	21	4 17.9	19.3
88106 2000 WD_{89}	15.0	X	28.81210	309.59935	54.26448	11.33492	0.0652409	0.18803317	3.0174939	21	11 28.4	19.1
88107 2000 WJ_{91}	14.7	X	51.53880	111.77765	251.06311	8.56270	0.0758974	0.19041934	2.9922326	21	12 28.0	18.9
88108 2000 WO_{96}	15.4	X	32.88980	62.48985	287.16509	3.37046	0.3291420	0.23688824	2.5868647	21	—	—
88109 2000 WF_{97}	14.1	X	289.53663	343.82755	90.53271	6.48642	0.1538354	0.18070354	3.0985483	21	9 29.6	18.1
88110 2000 WK_{98}	14.4	X	199.15931	351.21033	75.18693	7.84215	0.1358887	0.21601732	2.7509139	21	6 7.3	18.6
88111 2000 WJ_{101}	13.6	X	110.34974	97.13696	99.40346	22.50181	0.1521754	0.17581104	3.1557696	21	8 28.2	18.8
88112 2000 WF_{103}	14.8	X	31.22010	236.70103	142.78745	9.92854	0.0486768	0.18929247	3.0040962	21	12 20.2	19.1
88113 2000 WT_{107}	14.7	X	97.05470	297.05473	346.46534	6.05563	0.0486830	0.18675820	3.0312116	21	11 9.9	19.2
88114 2000 WW_{107}	14.7	X	181.79525	326.10279	278.53102	8.26659	0.0220699	0.19213566	2.9743865	21	12 31.2	19.0
88115 2000 WD_{116}	15.6	X	296.60168	23.57369	336.16795	2.27585	0.3107183	0.22498008	2.6773594	21	6 3.7	19.2
88116 2000 WN_{132}	15.1	X	191.62832	69.46119	294.55494	12.23069	0.1536402	0.21209017	2.7847680	21	3 9.7	19.8
88117 2000 WV_{132}	13.9	X	283.29777	201.38439	254.88253	25.84999	0.1544508	0.23334432	2.6129909	21	10 16.9	17.5
88118 2000 WQ_{134}	14.1	X	307.97200	62.12129	282.38793	9.83087	0.2260850	0.17819926	3.1275106	21	6 15.8	17.9
88119 2000 WX_{134}	14.6	X	7.16986	105.35250	305.80442	6.71790	0.0187530	0.19148846	2.9810847	21	12 25.0	18.7
88120 2000 WF_{139}	15.1	X	65.73105	106.13988	222.44107	2.81926	0.1074401	0.18857211	3.0117418	21	12 8.1	19.4
88121 2000 WD_{140}	15.0	X	160.35502	122.52869	204.39008	1.32409	0.0167760	0.20053192	2.8907711	21	—	—
88122 2000 WL_{140}	15.0	X	297.11823	47.97706	62.29441	4.82795	0.0431257	0.18917234	3.0053678	21	12 5.7	18.9
88123 2000 WV_{141}	14.3	X	314.28840	284.14172	68.89428	16.04936	0.3291691	0.18239376	3.0793761	21	6 18.8	17.9
88124 2000 WV_{142}	14.4	X	286.69235	278.46691	90.56475	22.65234	0.2789040	0.17806764	3.1290515	21	6 11.7	18.9
88125 2000 WU_{145}	14.4	X	19.75487	314.71988	136.51227	17.13666	0.1755150	0.19617894	2.9333764	21	—	—
88126 2000 WW_{145}	14.5	X	311.72790	258.42336	70.31408	17.24169	0.0525191	0.17687131	3.1431453	21	6 24.6	18.9
88127 2000 WY_{146}	14.9	X	345.00201	261.44489	189.27132	12.98387	0.1401646	0.24064591	2.5598650	21	—	—
88128 2000 WH_{152}	15.0	X	327.29718	259.85183	107.72662	12.76712	0.2865367	0.22939281	2.6429129	21	8 25.3	17.1
88129 2000 WN_{152}	13.7	X	176.08346	54.25603	249.68317	19.10839	0.0535342	0.15484325	3.4345871	21	—	—
88130 2000 WM_{153}	14.5	X	16.90372	301.53141	76.89086	4.89617	0.2016608	0.18625383	3.0366815	21	12 18.5	18.1
88131 2000 WV_{153}	14.2	X	131.95057	81.46263	273.32480	13.72903	0.1346986	0.20331998	2.8642835	21	1 4.7	18.4
88132 2000 WF_{155}	14.3	X	277.34876	207.77575	299.23413	8.50471	0.0102152	0.19261584	2.9694411	21	12 29.9	18.5
88133 2000 WO_{158}	15.0	X	213.36922	294.93788	74.55022	3.87301	0.1077789	0.21359703	2.7716555	21	4 13.6	19.3
88134 2000 WZ_{160}	14.9	X	267.25887	269.67252	92.81472	13.16355	0.2128814	0.22158187	2.7046634	21	5 21.4	19.1
88135 2000 WD_{165}	14.6	X	151.34933	60.97019	154.47069	12.25883	0.1042415	0.18328537	3.0693814	21	10 25.5	19.5
88136 2000 WL_{170}	15.4	X	193.47307	356.67673	332.82086	7.69147	0.1355472	0.20846103	2.8169953	21	2 5.6	19.8
88137 2000 WY_{171}	14.3	X	232.31450	339.81431	115.41184	14.05869	0.0986047	0.22662760	2.6643678	21	8 24.9	18.2
88138 2000 WD_{172}	15.0	X	296.75821	294.75490	89.56612	17.03135	0.2149276	0.22907175	2.6453818	21	7 26.4	18.3
88139 2000 WP_{172}	14.4	X	108.02470	295.82325	123.46697	17.50818	0.2100783	0.20523803	2.8464102	21	3 12.2	18.6
88140 2000 WV_{173}	13.6	X	153.31731	77.12770	93.23057	14.17963	0.1033083	0.17757749	3.1348067	21	9 4.8	18.7
88141 2000 WE_{174}	14.1	X	221.35287	61.03158	83.08424	21.08915	0.0174121	0.18447199	3.0562047	21	10 26.7	18.8
88142 2000 WH_{175}	13.5	X	176.96733	37.39552	100.43032	21.95868	0.1843621	0.17220041	3.1997294	21	8 16.7	19.1
88143 2000 WN_{177}	15.1	X	303.20944	294.38222	126.91037	17.12362	0.0998556	0.18280613	3.0747434	21	10 14.3	19.4
88144 2000 WS_{181}	15.0	X	240.64818	263.74667	126.21517	14.50100	0.1868193	0.22201893	2.7011127	21	6 1.5	19.5
88145 2000 WT_{182}	15.1	X	235.24356	225.76997	151.07863	13.43809	0.1952933	0.21999975	2.7176150	21	5 11.2	19.8
88146 Castello	15.1	X	9.56674	100.95956	353.01352	1.33599	0.0651450	0.19627590	2.9324103	21	—	—
88147 2000 WR_{183}	14.9	X	70.35552	323.83081	108.32781	3.12925	0.0501514	0.20140363	2.8824240	21	1 11.1	18.6
88148 2000 WB_{191}	14.3	X	264.94129	243.24156	89.43694	14.24085	0.2073029	0.17294402	3.1905510	21	4 19.8	19.5
88149 2000 XJ_{3}	14.3	X	46.62108	282.80621	11.11009	16.61524	0.0201434	0.18099295	3.0952444	21	9 22.3	18.6
88150 2000 XZ_{3}	15.2	X	224.97202	91.50504	294.28232	11.98894	0.2230343	0.21848793	2.7301369	21	5 3.9	20.1
88151 2000 XO_{4}	14.3	X	88.17502	355.79743	349.25649	10.13138	0.0336906	0.19332631	2.9621616	21	—	—
88152 2000 XP_{5}	13.8	X	161.93901	161.79530	0.08624	9.96928	0.0271418	0.17659897	3.1463758	21	8 29.6	18.3
88153 2000 XD_{6}	14.0	X	14.64812	126.83123	296.48527	8.80780	0.0337588	0.19259111	2.9696953	21	—	—
88154 2000 XJ_{6}	14.6	X	77.25170	339.16335	13.66881	10.59940	0.1162322	0.19263269	2.9692679	21	—	—
88155 2000 XN_{8}	13.8	X	239.40598	168.21730	288.29060	26.24192	0.0968903	0.17497167	3.1658541	21	8 16.9	18.9
88156 2000 XJ_{9}	14.6	X	179.14760	29.88345	9.65066	9.45801	0.2600522	0.21041517	2.7995272	21	4 17.6	19.5
88157 2000 XJ_{12}	14.8	X	274.30925	150.73524	291.26915	10.06109	0.0787937	0.18068999	3.0987032	21	9 20.0	19.3
88158 2000 XH_{14}	13.7	X	15.54721	34.72716	281.56821	21.28713	0.1564313	0.17327964	3.1864299	21	9 4.8	18.0
88159 2000 XA_{17}	15.0	X	224.30729	59.08746	321.92503	6.31454	0.1508078	0.21559522	2.7545033	21	5 2.5	19.5
88160 2000 XV_{17}	14.5	X	304.65469	356.34476	318.72424	12.36665	0.2369310	0.22160085	2.7045090	21	4 21.1	18.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
88161 2000 XK_{18}	13.0	X	173.83765	72.47416	298.06460	13.99886	0.2550836	0.21007416	2.8025560	21	3 5.9	18.2
88162 2000 XY_{19}	15.5	X	255.25018	39.59844	314.61802	8.52401	0.2312924	0.21899629	2.7259102	21	4 20.5	20.1
88163 2000 XS_{22}	14.3	X	216.26306	145.70037	282.51373	14.01900	0.0668207	0.17154973	3.2078154	21	7 1.8	19.1
88164 2000 XC_{24}	14.9	X	197.72893	88.59475	312.54163	10.01491	0.1854020	0.21495236	2.7599925	21	4 30.9	19.7
88165 2000 XJ_{24}	14.4	X	230.11388	94.41538	295.56936	12.71001	0.2368697	0.21858088	2.7293628	21	5 13.5	19.3
88166 2000 XN_{24}	15.0	X	233.73805	31.99152	353.20962	9.29837	0.1983184	0.21814806	2.7329717	21	5 12.9	19.7
88167 2000 XD_{25}	14.3	X	157.78915	196.31241	301.78453	16.54347	0.1065974	0.17014589	3.2254359	21	7 25.8	19.2
88168 2000 XM_{25}	14.4	X	304.38759	159.15628	334.81734	9.09831	0.0386928	0.19070233	2.9892717	21	—	—
88169 2000 XS_{25}	13.7	X	303.05296	62.50073	5.56268	9.91443	0.1876022	0.18209583	3.0827340	21	10 3.8	17.1
88170 2000 XW_{25}	14.1	X	313.71706	114.90031	320.25304	13.27316	0.1237728	0.18473034	3.0533544	21	11 2.2	18.1
88171 2000 XV_{26}	14.4	X	341.13595	297.91070	46.59384	16.79584	0.0852333	0.17629499	3.1499916	21	9 5.3	18.7
88172 2000 XD_{28}	14.5	X	277.20406	42.60541	310.83041	8.96225	0.2949814	0.22040426	2.7142889	21	5 4.0	19.0
88173 2000 XH_{29}	14.6	X	240.89672	355.16146	15.97273	12.74221	0.1985249	0.21607473	2.7504267	21	5 2.1	19.2
88174 2000 XQ_{29}	15.1	X	232.74486	22.20780	2.21157	9.73137	0.2189643	0.21676177	2.7446118	21	5 9.8	19.8
88175 2000 XL_{31}	13.9	X	258.12329	43.90647	5.78862	9.10239	0.0816456	0.17397261	3.1779627	21	7 28.2	18.5
88176 2000 XP_{31}	14.7	X	358.52913	105.20625	321.24841	10.35062	0.1168169	0.19015909	2.9949621	21	—	—
88177 2000 XW_{31}	14.6	X	111.78798	90.98184	320.60130	11.25509	0.1681209	0.20359633	2.8616911	21	2 22.9	18.7
88178 2000 XQ_{32}	14.6	X	52.29345	326.23236	38.25064	13.87649	0.1569909	0.18905521	3.0066090	21	—	—
88179 2000 XU_{33}	14.5	X	40.04858	35.31631	356.16262	10.51836	0.1672130	0.19069770	2.9893200	21	—	—
88180 2000 XY_{35}	15.2	X	219.10230	73.31786	298.11750	14.58911	0.1666146	0.21607176	2.7504519	21	4 10.2	20.0
88181 2000 XT_{36}	14.4	X	332.77495	28.90012	357.62890	14.05579	0.1707810	0.23135323	2.6279615	21	10 10.4	17.0
88182 2000 XH_{37}	15.1	X	210.53502	61.27181	4.03514	13.16977	0.1396290	0.21934547	2.7230165	21	6 16.0	19.6
88183 2000 XX_{40}	14.2	X	113.52122	70.67063	352.07823	13.81932	0.2090637	0.20589233	2.8403767	21	3 16.8	18.4
88184 2000 XA_{42}	14.6	X	271.88762	97.84756	328.73609	11.39111	0.2490829	0.22652992	2.6651337	21	8 12.3	18.3
88185 2000 XD_{42}	13.9	X	194.57868	17.28255	20.96291	17.45933	0.0606878	0.21249329	2.7812449	21	4 25.7	18.2
88186 2000 XF_{42}	14.4	X	339.15426	21.36689	0.18653	14.05883	0.1938237	0.23109731	2.6299013	21	10 16.5	16.8
88187 2000 XZ_{42}	15.6	X	317.88197	16.93047	10.46037	13.00432	0.2923777	0.22904317	2.6456018	21	9 2.4	17.9
88188 2000 XH_{44}	16.0	X	27.79786	194.99980	340.20298	11.36736	0.3916333	0.34641172	2.0078950	21	1 1.2	16.9
88189 2000 XJ_{53}	14.3	X	344.09597	303.69716	50.85073	16.66587	0.0343243	0.17677529	3.1442833	21	9 23.2	18.8
88190 2000 YH_{18}	14.7	X	21.14666	234.36721	173.55857	6.04704	0.2852561	0.23846034	2.5754825	21	—	—
88191 2000 YK_{21}	16.7	X	29.17734	309.04582	238.17345	9.22386	0.2117304	0.34520999	2.0125522	21	3 3.4	17.7
88192 2000 YT_{35}	14.1	X	35.51963	310.59874	101.29374	12.57328	0.1162306	0.19263066	2.9692888	21	—	—
88193 2000 YJ_{42}	15.1	X	127.23174	261.65612	112.31051	2.98158	0.1845994	0.20029527	2.8930476	21	1 30.3	19.3
88194 2000 YE_{45}	13.9	X	248.50473	328.80827	98.35333	11.49193	0.1283882	0.17283961	3.1918357	21	7 31.1	18.7
88195 2000 YV_{45}	14.5	X	302.43127	308.47559	101.39878	10.34666	0.0697654	0.17798849	3.1299791	21	9 29.5	18.8
88196 2000 YO_{65}	15.1	X	15.40412	140.93669	247.83289	2.74523	0.1267633	0.18717108	3.0267524	21	12 19.3	18.9
88197 2000 YY_{68}	16.4	X	75.62743	97.33018	136.19460	23.78851	0.0571811	0.35916215	1.9600885	21	8 31.3	18.4
88198 2000 YU_{70}	15.4	X	147.54097	127.66044	228.88953	5.49519	0.2680712	0.20388856	2.8589560	21	2 3.7	20.3
88199 2000 YQ_{73}	14.9	X	71.44411	102.46188	263.95272	8.87044	0.1107896	0.19296837	2.9658235	21	—	—
88200 2000 YR_{78}	15.2	X	13.81630	322.89208	84.98982	1.35350	0.1708399	0.19001961	2.9964274	21	—	—
88201 2000 YJ_{92}	13.7	X	84.06880	97.64194	99.46376	22.68146	0.0082083	0.16890293	3.2412405	21	7 3.8	18.3
88202 2000 YS_{98}	14.1	X	342.51264	213.40238	112.59558	5.96340	0.1516822	0.17144671	3.2091002	21	8 1.1	17.8
88203 2000 YJ_{107}	15.0	X	17.05729	48.12590	333.54986	2.47041	0.2610574	0.23578180	2.5949512	21	—	—
88204 2000 YM_{113}	14.3	X	263.84558	4.14740	92.48126	6.63128	0.1161775	0.17759237	3.1346317	21	9 28.4	18.7
88205 2000 YL_{115}	14.1	X	164.64394	241.65523	117.22777	15.00347	0.0817330	0.15074886	3.4964987	21	2 18.8	19.4
88206 2000 YE_{118}	16.3	X	56.58795	210.44212	119.36393	23.84645	0.0619919	0.37217691	1.9141227	21	12 31.7	18.6
88207 2000 YV_{119}	14.8	X	70.47903	7.12606	250.66088	8.44963	0.0263256	0.17739810	3.1369198	21	8 31.5	19.4
88208 2000 YG_{120}	15.0	X	15.13035	259.11514	117.02578	13.76973	0.1868736	0.23891201	2.5722355	21	12 25.1	18.0
88209 2000 YQ_{121}	14.8	X	285.33986	282.92525	129.87563	15.50763	0.1427074	0.22973889	2.6402580	21	8 31.1	18.1
88210 2000 YQ_{128}	14.6	X	339.18195	293.59787	106.04029	13.42413	0.2232976	0.18121261	3.0927426	21	11 10.2	17.9
88211 2000 YH_{130}	14.8	X	314.28525	303.48255	93.65484	10.03947	0.0919634	0.17949251	3.1124699	21	9 28.4	18.9
88212 2000 YN_{135}	14.7	X	286.09133	277.58291	160.47120	14.61734	0.1807201	0.18156655	3.0887220	21	9 23.6	18.7
88213 2001 AF_{2}	19.4	X	124.91892	194.98424	114.26507	17.81322	0.5953113	1.05780151	0.9539668	21	—	—
88214 2001 AB_{21}	13.6	X	17.78699	82.72471	247.13488	20.25285	0.1959954	0.18115563	3.0933910	21	10 10.4	17.6
88215 2001 AR_{22}	14.8	X	255.98078	57.07010	302.22247	11.73462	0.1589686	0.21511740	2.7585807	21	5 4.7	19.3
88216 2001 AD_{27}	15.2	X	179.17506	67.53600	348.99040	11.74375	0.1635728	0.21100131	2.7943402	21	5 2.9	20.0
88217 2001 AY_{28}	14.2	X	326.82271	283.80307	66.22281	16.20068	0.2619674	0.17848442	3.1241785	21	7 25.3	17.7
88218 2001 AM_{30}	14.4	X	8.70544	148.80480	305.85178	8.93599	0.0569260	0.19343688	2.9610326	21	—	—
88219 2001 AM_{31}	14.6	X	87.53093	16.48390	60.20798	6.67824	0.0422176	0.20124587	2.8839301	21	2 10.3	18.5
88220 2001 AQ_{39}	15.1	X	147.50472	293.29092	122.04546	10.13397	0.2313303	0.20985079	2.8045444	21	4 16.7	19.9
88221 2001 AP_{42}	15.5	X	227.07312	343.11992	50.04637	6.67501	0.1240588	0.26236486	2.4165675	21	5 22.2	19.1
88222 2001 AY_{51}	15.1	X	151.29491	278.81050	129.22772	8.33281	0.2340888	0.20967050	2.8061519	21	4 10.3	19.9
88223 2001 BQ_{13}	14.5	X	340.03253	153.29142	254.24266	11.55104	0.1867762	0.18296806	3.0729290	21	11 16.1	17.8
88224 2001 BM_{24}	14.3	X	353.45331	255.68667	129.88017	10.34344	0.0968724	0.18031137	3.1030396	21	11 11.5	18.4
88225 2001 BN_{27}	12.2	X	310.10017	301.58079	135.03485	35.10914	0.0679127	0.08295005	5.2070486	21	11 3.8	19.3
88226 2001 BY_{41}	15.8	X	192.19678	330.94599	219.95411	19.69524	0.0754516	0.37028585	1.9206341	21	12 3.7	18.0
88227 2001 BU_{42}	12.1	X	328.10591	180.33076	249.77113	9.84152	0.0649840	0.08374369	5.1740982	21	11 7.4	18.7
88228 2001 BW_{42}	13.9	X	290.35431	116.46792	270.56976	11.93144	0.0894416	0.16992328	3.2282523	21	8 1.9	18.5
88229 2001 BZ_{54}	12.3	X	181.52660	90.68741	97.70672	8.79755	0.0111321	0.08296606	5.2063785	21	10 15.3	19.3
88230 2001 BT_{65}	12.4	X	99.61467	4.46787	257.91446	7.36158	0.1478393	0.12440834	3.9740780	21	10 21.5	18.5
88231 2001 BF_{71}	14.7	X	293.80755	292.71654	121.65279	2.18954	0.1549383	0.17436913	3.1731430	21	9 6.3	18.7
88232 2001 BN_{72}	14.4	X	239.85237	338.45777	150.09449	13.72084	0.0877234	0.17581274	3.1557493	21	10 13.1	19.1
88233 2001 BJ_{73}	13.3	X	38.84565	33.59793	295.15148	25.99206	0.1739762	0.17535188	3.1612761	21	11 4.9	18.0
88234 2001 CB_{6}	14.9	X	9.60440	350.26153	60.50045	1.48471	0.3551413	0.18682283	3.0305125	21	—	—
88235 2001 CW_{6}	14.7	X	309.56416	274.26662	132.34598	21.81895	0.3006672	0.17704722	3.1410629	21	9 1.6	18.3
88236 2001 CC_{12}	13.2	X	250.24222	111.28502	328.15949	21.13707	0.0978646	0.17120226	3.2121542	21	8 20.3	17.9
88237 2001 CX_{15}	13.1	X	292.15794	261.64274	119.60017	12.13151	0.2233653	0.12279958	4.0087115	21	7 10.8	18.5
88238 2001 CN_{19}	13.7	X	337.63535	29.08149	330.61734	14.70587	0.1609849	0.17179984	3.2047012	21	9 4.0	17.3
88239 2001 CU_{19}	14.2	X	205.38602	181.96667	84.19552	11.53668	0.0790931	0.18406369	3.0607225	21	—	—
88240 2001 CG_{21}	13.0	X	259.98916	289.29130	188.13327	11.46313	0.0371464	0.08168772	5.2605547	21	10 15.8	19.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
88241 2001 CD_{23}	12.4	X	152.74735	284.71406	317.75143	5.19224	0.0293959	0.08271389	5.2169549	21	11 7.4	19.5
88242 2001 CK_{35}	15.8	X	140.66861	97.74969	126.65291	24.37806	0.0388463	0.36343412	1.9446984	21	11 25.1	18.7
88243 2001 CQ_{35}	16.0	X	263.34388	41.78126	81.32726	23.16648	0.0701287	0.37028522	1.9206363	21	12 13.1	17.0
88244 2001 CG_{38}	15.8	X	283.28278	17.85417	155.38355	3.48314	0.1202572	0.23286376	2.6165846	21	—	—
88245 2001 CH_{49}	12.6	X	313.02612	309.53789	124.87221	8.80468	0.1164634	0.08153125	5.2672829	21	10 23.9	19.2
88246 2001 DZ_{25}	13.5	X	121.43063	107.26836	131.22774	17.13705	0.0845820	0.12426445	3.9771452	21	10 18.4	19.6
88247 2001 DF_{27}	14.4	X	25.12187	289.71316	73.99103	2.55593	0.1617827	0.17796542	3.1302496	21	12 4.8	18.2
88248 2001 DR_{101}	13.8	X	335.51860	23.45932	354.59021	18.03174	0.1352099	0.17466182	3.1695972	21	9 26.2	17.5
88249 2001 EV_{16}	16.7	X	148.68973	100.70397	173.33247	23.50256	0.0863940	0.37290784	1.9116206	21	—	—
88250 2001 EJ_{17}	16.5	X	149.38865	4.67824	152.63647	24.37047	0.0318454	0.40388157	1.8125919	21	8 17.7	18.0
88251 2001 FX_{7}	15.6	X	277.84063	253.96023	217.25459	21.56481	0.0949847	0.36914219	1.9245990	21	12 15.8	17.4
88252 2001 FM_{40}	14.2	X	336.16304	50.47430	1.86520	18.14249	0.1429933	0.17564810	3.1577209	21	11 6.5	18.2
88253 2001 FV_{69}	12.9	X	217.62166	125.95900	47.82945	9.39036	0.1266688	0.12522627	3.9567543	21	10 30.0	18.9
88254 2001 FM_{129}	17.7	X	326.64948	140.18122	272.15103	1.52207	0.6294291	0.76659354	1.1823860	21	—	—
88255 2001 FL_{142}	14.9	X	139.91827	14.79679	245.06006	4.13963	0.1305494	0.17244403	3.1967151	21	12 1.0	20.1
88256 2001 FY_{168}	16.3	X	48.94531	131.01561	180.96505	22.14395	0.0826054	0.36098481	1.9534851	21	11 26.4	18.9
88257 2001 GU_{2}	16.5	X	280.67543	290.10085	158.73066	23.60429	0.1047201	0.36631876	1.9344757	21	11 20.4	18.7
88258 2001 GZ_{2}	16.4	X	110.47562	11.19600	155.33473	24.00720	0.0676756	0.35173479	1.9875856	21	7 7.5	19.1
88259 2001 HJ_{7}	15.2	X	219.00659	290.79854	226.90372	20.18759	0.0646419	0.36617141	1.9349946	21	11 23.8	17.0
88260 Insubria	15.9	X	232.13660	219.45581	63.50027	13.82100	0.1341329	0.23589399	2.5941284	21	1 12.8	20.2
88261 2001 HR_{29}	16.4	X	334.21253	356.91232	216.28773	2.01910	0.1154445	0.28780698	2.2719660	21	1 28.5	18.9
88262 2001 HM_{35}	14.9	X	209.34807	184.20269	92.44872	2.17903	0.1353118	0.17982840	3.1085930	21	—	—
88263 2001 KQ_{1}	15.6	X	290.18256	241.60921	232.81740	38.78549	0.4320466	0.32462760	2.0967457	21	11 7.7	16.0
88264 2001 KN_{20}	17.0	X	123.25455	201.40461	104.96561	12.07208	0.4522681	0.31306498	2.1480599	21	—	—
88265 2001 KU_{46}	15.5	X	296.15019	154.34334	92.48332	24.03926	0.1555664	0.28436798	2.2902466	21	1 21.2	18.9
88266 2001 KF_{48}	16.2	X	90.77385	296.64320	62.28221	1.82538	0.0904519	0.32079033	2.1134332	21	—	—
88267 2001 KE_{76}	7.2	X	104.02505	44.29170	112.97710	0.49928	0.0206182	0.00347361	43.1799566	21	6 14.7	23.6
88268 2001 KK_{76}	6.3	X	322.83511	226.28475	86.96560	1.88767	0.0228018	0.00352683	42.7444449	21	6 26.1	22.5
88269 2001 KF_{77}	9.5	X	10.56893	266.91819	14.71195	4.35621	0.2441834	0.00735072	26.1968700	21	7 23.6	22.5
88270 2001 KB_{78}	15.8	X	62.60013	150.36286	104.12170	6.14415	0.0460466	0.24491013	2.5300643	21	8 31.7	19.0
88271 2001 LO_{8}	14.4	X	102.18198	244.26923	273.84176	12.55035	0.0926126	0.23797399	2.5789904	21	6 17.9	17.8
88272 2001 LU_{16}	16.2	X	66.76984	302.18640	269.09633	7.18979	0.0794888	0.29512474	2.2342527	21	7 10.2	18.6
88273 2001 LB_{17}	16.1	X	345.73629	68.77892	222.24734	6.50601	0.1701796	0.29301608	2.2449590	21	6 12.8	17.8
88274 2001 LE_{17}	15.7	X	151.91111	148.75987	222.93144	8.30637	0.2217172	0.27345336	2.3507902	21	2 11.1	19.4
88275 2001 MA_{6}	15.9	X	290.35826	288.76702	31.70092	7.36401	0.1452284	0.28868569	2.2673534	21	4 23.7	18.7
88276 2001 MN_{6}	15.9	X	324.36476	177.49517	161.64579	5.78558	0.2034853	0.29293209	2.2453881	21	7 10.9	17.6
88277 2001 MF_{9}	16.0	X	230.70509	143.79057	197.96317	6.49694	0.1518013	0.28029243	2.3123938	21	3 16.2	19.7
88278 2001 MM_{9}	15.3	X	268.92474	89.19677	239.13889	6.37587	0.1348897	0.28402479	2.2920912	21	4 7.8	18.4
88279 2001 MX_{12}	15.4	X	212.51232	53.37706	271.78287	5.17674	0.1570080	0.27640112	2.3340466	21	2 6.4	19.0
88280 2001 MG_{14}	16.1	X	357.80059	37.50925	287.21483	3.72567	0.1953092	0.29716000	2.2240395	21	9 14.7	17.4
88281 2001 MV_{18}	16.1	X	274.46591	148.00319	191.01028	8.69364	0.1879814	0.28676436	2.2774697	21	4 25.3	19.3
88282 2001 MR_{19}	15.7	X	27.49491	323.49243	44.45658	2.90868	0.2063444	0.25717609	2.4489636	21	—	—
88283 2001 MF_{20}	16.7	X	282.95863	272.40890	39.02833	4.53000	0.1932764	0.28721239	2.2751006	21	3 28.2	19.7
88284 2001 MU_{23}	16.0	X	222.32096	59.03620	270.08792	1.22368	0.2285879	0.27837472	2.3230017	21	2 20.6	19.9
88285 2001 MX_{23}	15.9	X	263.02866	271.48156	55.47981	1.03031	0.2311785	0.28388740	2.2928306	21	3 23.8	19.5
88286 2001 MM_{24}	15.7	X	312.33196	21.21379	293.79605	3.39914	0.1840675	0.29104263	2.2550957	21	5 10.5	18.0
88287 2001 MB_{25}	16.6	X	38.30356	29.92988	250.29769	5.50013	0.1997969	0.29918274	2.2140038	21	9 27.4	18.9
88288 2001 MM_{25}	15.8	X	170.44312	47.46548	291.31021	1.19236	0.2288983	0.27201022	2.3590975	21	1 22.7	19.5
88289 2001 MD_{28}	15.9	X	353.98904	22.35136	287.88620	3.57453	0.1785451	0.29674241	2.2261255	21	8 8.4	17.1
88290 2001 MH_{28}	16.3	X	138.73553	95.13466	174.21339	2.74936	0.1487137	0.31251107	2.1505974	21	—	—
88291 2001 MG_{29}	16.4	X	51.37609	4.59214	290.30232	4.60638	0.1712612	0.30261804	2.1972165	21	11 3.6	19.0
88292 Bora–Bora	16.7	X	342.99596	305.37482	20.45804	2.85693	0.2520423	0.29609208	2.2293839	21	8 6.4	17.3
88293 2001 NZ_{9}	15.8	X	334.66169	238.99259	97.81879	6.58364	0.2100678	0.29597415	2.2299760	21	8 5.3	16.9
88294 2001 NA_{10}	16.5	X	269.41663	284.57658	39.71692	3.54782	0.0792926	0.28657217	2.2784878	21	4 12.3	19.4
88295 2001 ND_{12}	16.3	X	240.51259	202.35717	164.74700	6.39270	0.1448807	0.28718469	2.2752469	21	5 1.3	19.6
88296 2001 NC_{14}	15.7	X	354.23375	206.96523	100.47609	8.37495	0.1871983	0.29590137	2.2303417	21	8 7.1	17.0
88297 Huikilolani	16.9	X	98.50411	53.42108	237.18380	4.24553	0.1616174	0.30911506	2.1663200	21	12 20.9	20.2
88298 2001 NN_{20}	14.2	X	105.99384	228.26023	276.60407	16.84174	0.1088916	0.23686925	2.5870030	21	6 7.3	17.8
88299 2001 NS_{21}	15.6	X	64.40253	215.44513	158.19236	2.40258	0.2265602	0.25967644	2.4332180	21	—	—
88300 2001 NW_{21}	14.1	X	72.98852	136.65624	316.30523	10.38705	0.1426682	0.22141373	2.7060326	21	2 15.4	17.1
88301 2001 OQ_{2}	16.2	X	322.19069	0.08566	230.67585	9.42278	0.1630954	0.28232027	2.3013076	21	1 26.8	19.2
88302 2001 OO_{3}	16.1	X	276.11164	125.15143	93.84877	4.15008	0.1064973	0.27523521	2.3406333	21	—	—
88303 2001 OL_{6}	15.6	X	246.54215	122.69161	224.43335	6.57633	0.1436352	0.28358214	2.2944757	21	4 8.0	18.9
88304 2001 OC_{7}	16.0	X	133.00823	117.63596	239.74953	1.67310	0.1885490	0.26834950	2.3805037	21	1 3.2	19.0
88305 2001 OF_{8}	15.2	X	152.82511	121.16580	230.00925	4.23632	0.1103835	0.27170296	2.3608758	21	1 7.0	18.3
88306 2001 OG_{8}	15.9	X	288.38389	75.92234	227.83705	4.19363	0.1579697	0.28547430	2.2843258	21	3 25.9	19.1
88307 2001 OS_{11}	16.1	X	240.47297	212.26643	106.93827	7.21670	0.1376656	0.28170731	2.3046447	21	3 1.2	19.6
88308 2001 OL_{13}	15.8	X	156.85414	261.11032	86.02899	3.16948	0.2257352	0.27021649	2.3695261	21	1 21.0	19.3
88309 2001 OP_{17}	16.5	X	290.98255	103.00811	231.23633	1.27034	0.0735491	0.24158667	2.5532151	21	5 29.6	19.6
88310 2001 OP_{18}	15.9	X	0.29156	336.98875	226.21330	4.96872	0.1029055	0.28446013	2.2897520	21	2 25.9	18.2
88311 2001 OA_{19}	16.1	X	278.89161	202.87081	142.07189	6.94263	0.1356265	0.28989205	2.2610588	21	5 17.3	19.0
88312 2001 OC_{21}	16.3	X	335.78585	122.26108	205.21317	1.82392	0.2482738	0.29286331	2.2457396	21	7 13.3	17.4
88313 2001 OZ_{21}	15.9	X	17.53093	223.36144	151.61605	4.52893	0.1753234	0.30293409	2.1956880	21	—	—
88314 2001 OL_{30}	16.4	X	281.32688	310.93515	36.69574	8.00052	0.1954677	0.28956972	2.2627363	21	5 11.9	19.4
88315 2001 OA_{35}	16.3	X	260.88741	215.29917	93.61626	7.60302	0.1189059	0.28269128	2.2992936	21	3 11.7	19.6
88316 2001 OF_{37}	16.4	X	18.82401	100.77240	105.73420	6.77031	0.1388220	0.28805347	2.2706698	21	4 12.1	18.3
88317 2001 OJ_{38}	16.2	X	129.40936	340.17179	356.98559	7.08993	0.1354934	0.26742426	2.3859913	21	—	—
88318 2001 OM_{38}	15.5	X	248.64431	247.85533	13.63746	11.38981	0.1316287	0.22633834	2.6666374	21	1 4.7	19.9
88319 2001 OX_{41}	16.0	X	350.37863	263.00729	28.27108	6.94209	0.1476358	0.29270582	2.2465451	21	6 26.7	17.8
88320 2001 ON_{42}	16.5	X	72.53472	23.04070	313.51229	2.54924	0.1515590	0.30637541	2.1792151	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
88321 2001 OS_{43}	16.5	X	114.59273	130.33302	183.09037	5.33707	0.2012152	0.31009018	2.1617761	21	—	—
88322 2001 OZ_{43}	16.0	X	155.01627	351.38478	325.61042	2.98127	0.1551029	0.26583153	2.3955122	21	—	—
88323 2001 OJ_{45}	15.4	X	187.49041	146.73191	218.69760	5.61677	0.2222655	0.27765389	2.3270205	21	3 7.5	19.2
88324 2001 OP_{46}	16.4	X	300.00496	6.43530	273.08333	5.33246	0.1760879	0.28558344	2.2837437	21	3 3.4	19.5
88325 2001 OS_{47}	16.2	X	11.63536	357.91429	294.81229	5.93585	0.1717602	0.29569344	2.2313871	21	8 20.1	17.8
88326 2001 OA_{52}	15.7	X	17.16274	339.62003	78.55494	7.36839	0.1240925	0.26158041	2.4213965	21	—	—
88327 2001 OH_{54}	14.3	X	30.50394	297.83228	68.63540	13.87752	0.1525170	0.20451951	2.8530730	21	12 19.6	18.1
88328 2001 OL_{56}	15.3	X	71.02595	85.91901	258.07672	5.32179	0.1463821	0.25699536	2.4501116	21	—	—
88329 2001 OO_{57}	15.6	X	302.41428	241.20985	128.85000	5.14667	0.2250527	0.24168118	2.5525494	21	7 11.8	18.5
88330 2001 OQ_{57}	16.2	X	359.19238	346.44647	354.31598	3.61982	0.1638999	0.29640802	2.2277994	21	10 13.4	17.7
88331 2001 OO_{58}	15.7	X	184.09600	44.61076	211.12028	3.48498	0.0912131	0.26533703	2.3984876	21	—	—
88332 2001 OO_{60}	16.7	X	101.86702	46.60254	219.52781	4.10301	0.1455712	0.30711126	2.1757328	21	11 21.9	19.9
88333 2001 OV_{60}	15.8	X	334.97889	321.02790	83.22903	3.91175	0.1855138	0.25309728	2.4752044	21	11 22.6	17.6
88334 2001 OJ_{64}	15.4	X	85.40315	174.38182	223.18454	5.88452	0.1659599	0.26856755	2.3792150	21	—	—
88335 2001 OG_{66}	13.9	X	180.21047	297.36748	43.28514	14.41119	0.1450038	0.17436801	3.1731566	21	2 16.9	19.2
88336 2001 OX_{67}	16.1	X	127.04672	189.66386	154.35191	1.42252	0.2380045	0.26768913	2.3844171	21	—	—
88337 2001 OA_{68}	15.8	X	275.45655	328.93138	273.77033	2.14438	0.1344925	0.27790112	2.3256402	21	—	—
88338 2001 OR_{68}	15.7	X	253.78664	92.33995	223.69143	5.22627	0.1378367	0.28051059	2.3111948	21	3 5.9	19.3
88339 2001 OB_{70}	15.8	X	216.70345	242.77765	107.73225	3.31038	0.2535064	0.27866046	2.3214134	21	3 16.0	19.9
88340 2001 OE_{70}	16.2	X	20.90114	53.86644	333.29899	6.49018	0.1662818	0.30509616	2.1853025	21	—	—
88341 2001 OG_{70}	15.8	X	74.69083	68.62100	295.14449	2.17166	0.1872641	0.26028020	2.4294537	21	—	—
88342 2001 ON_{70}	15.9	X	44.69074	174.58989	166.31701	7.14385	0.1964853	0.25428198	2.4675104	21	12 23.2	19.3
88343 2001 OW_{70}	15.9	X	307.59957	275.05496	102.01109	3.96266	0.1748386	0.29269135	2.2466191	21	8 14.9	17.6
88344 2001 OR_{72}	16.2	X	128.00816	181.74993	187.90577	0.86391	0.2020701	0.26752936	2.3853663	21	1 15.1	19.3
88345 2001 OV_{72}	15.1	X	50.37358	23.87504	334.71055	7.56666	0.2482187	0.25583072	2.4575418	21	—	—
88346 2001 OA_{73}	16.2	X	234.69549	163.06190	151.41717	7.58687	0.1412589	0.27731366	2.3289234	21	2 15.2	19.5
88347 2001 OR_{73}	16.4	X	260.16193	101.81772	213.39509	4.12287	0.1951878	0.28128597	2.3069455	21	3 7.5	19.9
88348 2001 OT_{75}	16.3	X	258.61654	250.07084	91.63526	10.42982	0.0831528	0.28647703	2.2789922	21	4 26.6	19.4
88349 2001 OU_{76}	15.0	X	128.44970	10.84144	89.13696	12.31213	0.1824460	0.23195443	2.6234186	21	5 17.0	19.1
88350 2001 OJ_{79}	15.6	X	200.10770	307.12890	350.72913	8.63145	0.0720415	0.22446090	2.6814863	21	—	—
88351 2001 OD_{83}	16.2	X	256.28138	234.15883	69.40875	7.79878	0.1472751	0.28125927	2.3070915	21	2 25.8	19.7
88352 2001 OJ_{86}	15.6	X	141.40098	187.05101	165.51635	6.63689	0.1371226	0.26756210	2.3851717	21	—	—
88353 2001 OC_{89}	16.1	X	143.87064	318.17387	44.54765	3.09371	0.2298248	0.27117322	2.3639494	21	1 28.5	19.4
88354 2001 OF_{96}	15.6	X	276.04211	56.24745	267.10095	5.47087	0.1575011	0.28315346	2.2967910	21	4 5.9	19.0
88355 2001 OG_{99}	16.9	X	328.14438	320.71541	320.40124	2.31078	0.1301534	0.28876353	2.2669459	21	4 25.4	19.3
88356 2001 ON_{99}	15.7	X	85.83895	63.39527	303.57536	5.06938	0.1380926	0.26493050	2.4009406	21	—	—
88357 2001 OX_{99}	16.8	X	275.82884	209.70088	116.11610	2.23631	0.2149293	0.28655876	2.2785589	21	4 5.9	20.2
88358 2001 OR_{100}	15.7	X	214.58676	320.98640	17.53581	3.64994	0.2493326	0.27881765	2.3205408	21	2 27.6	19.6
88359 2001 OX_{100}	14.5	X	102.78665	316.53219	109.83126	17.45644	0.1708309	0.22190133	2.7020670	21	3 7.6	18.4
88360 2001 OM_{103}	15.5	X	104.04597	161.17460	197.51473	27.21948	0.1735615	0.26185408	2.4197091	21	—	—
88361 2001 OJ_{104}	15.0	X	122.93871	263.79727	116.56004	15.28132	0.2164941	0.21986695	2.7187091	21	2 3.9	18.9
88362 2001 ON_{105}	16.0	X	313.55822	64.09878	214.42018	4.27597	0.1087968	0.28575616	2.2828234	21	4 2.1	18.6
88363 2001 OF_{107}	15.3	X	214.88363	63.92763	232.58904	5.25658	0.2163790	0.27230280	2.3574074	21	1 7.1	19.2
88364 2001 PK	16.3	X	309.42806	96.53936	258.50223	3.92088	0.2259859	0.29464840	2.2366601	21	7 1.3	18.2
88365 2001 PN_{2}	15.8	X	136.72169	112.96564	201.85178	5.24716	0.1448485	0.26554077	2.3972606	21	—	—
88366 2001 PG_{6}	16.2	X	125.17758	236.84059	5.99174	4.04122	0.1164370	0.30396216	2.1907343	21	11 12.3	19.2
88367 2001 PY_{8}	15.3	X	149.69400	32.39122	296.35253	5.79800	0.1221718	0.26681779	2.3896054	21	—	—
88368 2001 PO_{9}	16.0	X	187.93041	358.00044	346.37617	3.92464	0.2083093	0.27493980	2.3423096	21	2 12.6	19.8
88369 2001 PU_{11}	15.6	X	31.66124	243.49642	92.62646	9.81952	0.0781837	0.25285867	2.4767613	21	11 14.4	18.7
88370 2001 PQ_{14}	16.0	X	58.64531	147.91749	150.56589	6.38634	0.2057093	0.30229604	2.1987764	21	11 25.5	19.0
88371 2001 PF_{15}	16.0	X	114.81823	152.36801	205.48011	1.80716	0.1864758	0.26630281	2.3926851	21	—	—
88372 2001 PT_{17}	16.7	X	15.13362	243.63352	60.54032	7.77376	0.1701111	0.29761011	2.2217964	21	9 24.5	18.6
88373 2001 PB_{22}	15.6	X	306.28656	301.50794	283.71225	6.05826	0.0677591	0.27691979	2.3311312	21	1 17.1	18.4
88374 2001 PN_{22}	15.3	X	82.77808	111.58863	324.03011	1.86198	0.1550061	0.22286373	2.6942825	21	2 10.5	18.4
88375 2001 PB_{25}	15.8	X	95.53755	225.07511	322.01675	4.74468	0.1245208	0.29072500	2.2567379	21	7 25.5	18.4
88376 2001 PY_{26}	16.1	X	53.99756	159.73007	163.77695	1.80479	0.0980042	0.25389103	2.4700428	21	11 28.5	19.3
88377 2001 PK_{29}	15.8	X	108.25886	201.04492	199.48247	4.55965	0.1624703	0.22128334	2.7070955	21	2 1.2	19.4
88378 2001 PH_{30}	16.3	X	298.01905	294.54392	40.45293	7.57528	0.1799726	0.29051522	2.2578242	21	5 19.0	18.8
88379 2001 PF_{34}	14.5	X	125.67129	254.20463	236.53403	9.16523	0.2138425	0.23389464	2.6088906	21	6 22.3	18.7
88380 2001 PQ_{40}	14.7	X	41.12832	137.16713	294.57799	8.03384	0.1456189	0.21365657	2.7711405	21	—	—
88381 2001 PU_{43}	16.6	X	340.28859	211.78274	25.81527	6.09941	0.1260469	0.28513601	2.2861322	21	3 16.1	19.0
88382 2001 PL_{49}	14.5	X	30.99664	1.17022	261.40112	14.34031	0.0603882	0.24023782	2.5627631	21	7 21.9	17.8
88383 2001 PO_{58}	15.0	X	146.61678	176.07282	3.97308	8.37394	0.0804517	0.24654421	2.5188724	21	9 9.6	18.6
88384 2001 PE_{61}	16.5	X	179.90481	179.07613	170.13895	6.81371	0.1278167	0.27436106	2.3456024	21	2 4.3	20.1
88385 2001 PV_{62}	15.0	X	232.55597	228.88708	181.46952	21.67669	0.0946320	0.23747982	2.5825668	21	6 23.8	19.3
88386 2001 PG_{63}	16.2	X	200.42829	253.95061	65.79045	3.25860	0.2182195	0.27210140	2.3585705	21	1 24.9	20.2
88387 2001 QT	16.4	X	186.42402	124.85145	170.46716	2.64157	0.0874268	0.26985297	2.3716535	21	—	—
88388 2001 QT_{2}	15.6	X	253.22513	332.95253	86.02406	4.66309	0.1766969	0.24315663	2.5422132	21	7 20.8	19.2
88389 2001 QC_{6}	14.7	X	163.51986	156.45347	329.85469	9.80082	0.1249284	0.24186940	2.5512250	21	7 20.6	18.7
88390 2001 QP_{9}	16.5	X	316.27115	161.09043	161.66130	3.30817	0.2590032	0.29106546	2.2549778	21	5 17.7	18.5
88391 2001 QU_{10}	15.6	X	121.25028	337.27750	338.35861	6.19045	0.1155324	0.26283828	2.4136649	21	—	—
88392 2001 QY_{10}	15.7	X	113.97758	206.86021	152.13823	2.96725	0.1947042	0.26598093	2.3946151	21	—	—
88393 2001 QK_{14}	14.7	X	188.53776	269.80182	164.53052	10.43759	0.1985709	0.23407201	2.6075725	21	6 7.7	19.2
88394 2001 QJ_{16}	16.0	X	266.51888	300.34708	10.15670	5.10483	0.2004696	0.28288967	2.2982185	21	3 9.5	19.4
88395 2001 QS_{16}	15.7	X	161.45200	267.52495	63.66186	3.07606	0.2276877	0.27008953	2.3702685	21	1 5.7	19.3
88396 2001 QH_{17}	15.8	X	286.50568	227.37990	140.18018	3.43234	0.1513491	0.24086039	2.5583451	21	6 26.2	18.9
88397 2001 QS_{17}	15.9	X	346.69370	235.74530	5.33669	7.21216	0.1389940	0.28593995	2.2818451	21	3 28.1	17.8
88398 2001 QK_{21}	15.1	X	251.00198	335.57383	345.65725	9.38934	0.1142137	0.22995692	2.6385889	21	3 18.3	18.9
88399 2001 QG_{22}	16.2	X	123.72728	34.77922	300.65013	2.34306	0.1659176	0.31309998	2.1478998	21	—	—
88400 2001 QO_{23}	15.8	X	294.34430	348.82629	359.01140	2.77701	0.2598454	0.23818380	2.5774756	21	5 22.6	19.3

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
88401 2001 QN_{24}	16.3	X	40.58128	2.79810	7.82945	6.59839	0.1799160	0.30602529	2.1808770	21	—	—
88402 2001 QW_{24}	15.1	X	101.18648	203.16634	133.11515	9.09906	0.2259811	0.21163512	2.7887584	21	—	—
88403 2001 QP_{26}	16.1	X	278.34953	192.60291	113.39152	5.64885	0.1165309	0.28263658	2.2995903	21	3 27.2	19.2
88404 2001 QR_{26}	16.0	X	82.01479	292.93080	33.58953	2.55960	0.2199824	0.25817417	2.4426478	21	—	—
88405 2001 QP_{27}	14.2	X	160.50237	12.43144	11.74513	13.21502	0.1740764	0.22248436	2.6973444	21	3 14.8	18.5
88406 2001 QY_{27}	15.6	X	103.05962	310.42396	48.98042	2.94464	0.2315189	0.26193566	2.4192066	21	—	—
88407 2001 QB_{28}	14.8	X	236.95295	262.37556	130.42983	1.24872	0.2349468	0.18379092	3.0637502	21	5 27.1	19.8
88408 2001 QC_{28}	15.9	X	119.87769	321.03456	25.60175	2.93770	0.2105690	0.26301619	2.4125763	21	—	—
88409 2001 QH_{28}	16.1	X	270.12050	149.34851	174.40357	4.07285	0.1852056	0.28143249	2.3061447	21	3 31.2	19.3
88410 2001 QJ_{28}	15.7	X	297.80952	216.47733	184.09225	4.81440	0.2580247	0.29211281	2.2495845	21	8 14.7	17.5
88411 2001 QL_{28}	16.3	X	76.08470	127.71468	196.00574	4.03014	0.2208881	0.30473267	2.1870399	21	—	—
88412 2001 QN_{28}	16.5	X	153.89946	297.04716	3.89927	4.04108	0.2951132	0.31408812	2.1433925	21	—	—
88413 2001 QF_{31}	14.8	X	182.42465	262.57446	128.15370	3.74429	0.2567537	0.22423033	2.6833242	21	4 12.0	19.5
88414 2001 QC_{32}	16.3	X	297.30986	85.85771	186.93297	6.02404	0.2101160	0.28277709	2.2988285	21	2 16.7	19.5
88415 2001 QS_{32}	15.6	X	49.10088	229.48318	260.81427	7.43177	0.1046432	0.27802264	2.3249624	21	2 6.6	17.9
88416 2001 QH_{38}	15.9	X	246.74100	159.81385	117.99825	6.17399	0.1250890	0.27786585	2.3258369	21	1 12.6	19.4
88417 2001 QJ_{48}	15.5	X	262.00286	233.19551	141.73085	12.15945	0.0548082	0.24047894	2.5610498	21	6 19.2	19.1
88418 2001 QA_{50}	15.2	X	149.51133	5.41466	21.95354	2.22824	0.2194775	0.22431880	2.6826186	21	3 9.8	19.4
88419 2001 QT_{52}	16.4	X	179.47039	332.90579	351.59852	5.79424	0.1160997	0.27253210	2.3560849	21	1 5.0	19.8
88420 2001 QT_{54}	16.0	X	123.90653	295.11954	76.55108	3.21636	0.2284884	0.26835259	2.3804854	21	1 17.0	18.8
88421 2001 QU_{54}	16.3	X	151.05249	212.43783	51.11541	4.16059	0.1065030	0.31055056	2.1596391	21	—	—
88422 2001 QE_{55}	16.4	X	211.62161	185.32918	122.87815	3.69866	0.1833933	0.27464661	2.3439763	21	1 18.1	20.0
88423 2001 QU_{59}	14.5	X	290.87095	117.34252	147.86181	12.31145	0.0240539	0.18034718	3.1026288	21	3 15.7	18.9
88424 2001 QC_{61}	15.2	X	18.07728	281.12844	119.90567	22.49003	0.2883252	0.30396600	2.1907158	21	—	—
88425 2001 QH_{61}	16.1	X	288.41683	277.91102	306.46545	6.00513	0.0678422	0.27540154	2.3396908	21	—	—
88426 2001 QZ_{61}	14.6	X	178.17036	261.71629	153.08388	11.76675	0.2520797	0.23053039	2.6342112	21	5 9.2	19.4
88427 2001 QA_{62}	15.9	X	80.40089	193.40933	176.92796	2.91578	0.2382630	0.26212871	2.4180187	21	—	—
88428 2001 QR_{62}	16.3	X	315.80986	153.11480	193.50464	2.31295	0.2062872	0.29234835	2.2483761	21	7 4.2	18.3
88429 2001 QM_{64}	16.2	X	10.90518	125.52249	177.03804	6.33196	0.1976617	0.29554050	2.2321569	21	9 10.3	17.7
88430 2001 QB_{65}	16.0	X	269.83195	152.00558	181.44384	7.60860	0.2320730	0.28233356	2.3012354	21	4 8.1	19.3
88431 2001 QZ_{65}	15.9	X	310.05059	106.88677	190.53351	6.00873	0.1353179	0.28620730	2.2804239	21	4 21.7	18.4
88432 2001 QR_{68}	15.2	X	42.55606	203.91695	173.90555	12.61859	0.2223752	0.25569919	2.4583845	21	—	—
88433 2001 QS_{68}	15.6	X	166.52361	137.30385	208.42304	1.73105	0.2599798	0.27015617	2.3698787	21	1 29.9	19.4
88434 2001 QP_{70}	16.1	X	16.00204	92.22457	182.99038	6.67528	0.1710861	0.29251909	2.2475011	21	7 30.2	17.8
88435 2001 QW_{70}	14.5	X	346.40017	15.28613	321.48858	14.52347	0.1367062	0.24441416	2.5334858	21	8 27.6	16.9
88436 2001 QX_{70}	15.5	X	25.03911	164.52735	218.09162	5.82385	0.1400259	0.25561773	2.4589068	21	—	—
88437 2001 QY_{70}	15.6	X	42.85691	120.75254	223.51457	5.64391	0.1586369	0.25409751	2.4687045	21	12 19.8	18.9
88438 2001 QA_{71}	16.0	X	284.86797	69.80422	213.44382	5.79667	0.1043788	0.28075002	2.3098806	21	3 1.1	19.1
88439 2001 QA_{74}	16.2	X	96.81044	334.91501	344.56588	3.18446	0.1818243	0.30625713	2.1797762	21	—	—
88440 2001 QG_{74}	15.0	X	207.36317	118.40459	225.75174	1.71738	0.0941627	0.22295079	2.6935810	21	3 4.2	19.1
88441 2001 QA_{75}	14.6	X	240.41856	199.42788	202.35516	14.49491	0.0854247	0.23399909	2.6081142	21	6 22.2	18.6
88442 2001 QH_{76}	15.5	X	144.86081	159.24191	238.88240	1.30931	0.1971327	0.26956755	2.3733273	21	3 10.2	18.9
88443 2001 QG_{77}	15.5	X	272.11654	200.49992	202.32398	6.69027	0.1070112	0.28709892	2.2757000	21	8 1.2	18.3
88444 2001 QJ_{78}	14.8	X	168.71283	137.86097	206.41189	8.09843	0.2058265	0.21691572	2.7433130	21	1 31.2	19.4
88445 2001 QK_{78}	15.7	X	209.66893	349.25575	44.93642	3.65452	0.2237608	0.27777001	2.3263719	21	5 2.6	19.6
88446 2001 QR_{80}	14.5	X	40.27858	282.65133	308.00967	12.03274	0.1268580	0.23732792	2.5836687	21	7 4.5	17.5
88447 2001 QW_{81}	15.8	X	20.96411	78.68491	253.55061	3.86802	0.2285813	0.29843970	2.2176772	21	11 23.6	17.8
88448 2001 QH_{82}	15.5	X	168.65355	170.51862	299.62978	7.28290	0.0208835	0.28570533	2.2830941	21	6 30.1	18.3
88449 2001 QD_{84}	15.8	X	14.57920	77.37135	298.34239	5.57011	0.1637030	0.30046927	2.2076794	21	—	—
88450 2001 QE_{84}	16.0	X	0.78651	62.07210	300.21484	5.51245	0.1673374	0.29714740	2.2241023	21	11 20.7	18.0
88451 2001 QW_{86}	15.6	X	243.49351	171.26307	205.20822	13.30293	0.1309675	0.23554056	2.5967227	21	5 20.4	19.5
88452 2001 QK_{90}	14.5	X	144.43531	306.55072	72.12196	15.34349	0.1925044	0.21782678	2.7356584	21	2 27.5	19.1
88453 2001 QF_{91}	15.8	X	281.65549	91.51368	328.84989	23.18386	0.2941302	0.29062561	2.2572524	21	8 14.6	18.2
88454 2001 QG_{92}	15.2	X	204.30207	49.49062	23.56325	9.92140	0.0804492	0.23849977	2.5751986	21	6 22.6	19.1
88455 2001 QN_{94}	16.0	X	215.10875	22.48242	335.66994	1.59364	0.1546184	0.22903133	2.6456930	21	3 27.7	20.1
88456 2001 QT_{94}	15.3	X	283.30517	131.86846	188.58936	1.14759	0.1482655	0.18504187	3.0499265	21	4 24.1	19.7
88457 2001 QV_{94}	16.4	X	317.50365	153.08042	167.77231	4.86034	0.1707338	0.28914631	2.2649448	21	6 2.9	18.7
88458 2001 QG_{95}	15.2	X	126.97666	327.03499	155.45344	4.46965	0.2323279	0.23640441	2.5903931	21	6 15.3	19.3
88459 2001 QJ_{95}	16.0	X	238.27726	54.12367	150.52209	6.60604	0.0381941	0.26510051	2.3999140	21	—	—
88460 2001 QT_{97}	15.3	X	58.70985	116.99878	220.17957	3.26402	0.2231236	0.30411029	2.1900228	21	—	—
88461 2001 QL_{98}	15.8	X	99.10310	149.33224	203.74868	2.53685	0.1916085	0.26441502	2.4040600	21	—	—
88462 2001 QM_{99}	14.6	X	45.39670	117.54050	320.70806	5.51594	0.2295980	0.25861565	2.4398671	21	—	—
88463 2001 QK_{101}	16.4	X	300.33672	200.53997	148.77920	5.83032	0.1800159	0.29007812	2.2600917	21	6 15.2	18.8
88464 2001 QD_{102}	15.9	X	167.24014	231.62511	103.76982	3.27669	0.2044789	0.26820226	2.3813749	21	1 14.4	19.6
88465 2001 QZ_{105}	15.2	X	80.33504	217.99787	253.07415	14.11968	0.1149909	0.22721964	2.6597376	21	3 11.9	18.8
88466 2001 QO_{107}	14.8	X	168.52745	239.78025	195.07822	21.61254	0.0839704	0.22711428	2.6605602	21	5 18.1	19.0
88467 2001 QM_{108}	14.3	X	168.27296	8.56160	11.47445	13.90447	0.1514341	0.22341294	2.6898651	21	3 15.5	18.6
88468 2001 QB_{109}	16.2	X	70.07014	203.50521	98.45686	8.34024	0.2362955	0.30408799	2.1901299	21	12 13.9	19.4
88469 2001 QF_{109}	15.8	X	234.45618	221.56229	339.76789	19.70246	0.1060362	0.36537363	1.9378102	21	—	—
88470 Joaquinescrig	15.6	X	277.81976	27.32283	267.76614	3.92290	0.1534435	0.23272661	2.6176125	21	3 9.1	19.4
88471 2001 QL_{111}	15.8	X	96.79626	273.26174	281.10157	7.68877	0.0546003	0.24050781	2.5608448	21	7 23.9	19.3
88472 2001 QW_{111}	14.7	X	71.28607	221.90116	48.44169	15.16387	0.0784727	0.24045685	2.5612066	21	10 12.2	18.3
88473 2001 QX_{111}	15.0	X	315.18470	34.91450	335.09112	2.37447	0.0922906	0.19001422	2.9964841	21	8 20.4	18.8
88474 2001 QD_{112}	15.8	X	200.68910	228.45497	171.23457	0.87455	0.2213548	0.27668294	2.3324614	21	5 2.4	19.7
88475 2001 QO_{113}	15.7	X	358.95980	226.63405	110.38941	4.62075	0.1822496	0.24346842	2.5400423	21	10 2.1	18.0
88476 2001 QS_{115}	16.1	X	32.36095	143.44039	225.17595	5.34114	0.1361496	0.25505506	2.4625218	21	—	—
88477 2001 QJ_{116}	15.0	X	59.62373	240.58493	285.05267	7.67926	0.1778462	0.23018176	2.6368703	21	5 8.1	18.0
88478 2001 QA_{118}	16.0	X	205.92725	64.62365	212.72977	6.61468	0.1001474	0.26877898	2.3779671	21	—	—
88479 2001 QQ_{119}	16.4	X	265.26910	259.20082	32.94476	2.76499	0.1666921	0.27990610	2.3145211	21	2 16.3	19.7
88480 2001 QL_{120}	15.9	X	247.71442	185.61350	153.36249	7.24677	0.1544220	0.28008921	2.3135122	21	4 1.5	19.3

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
88481 2001 QS_{120}	16.4	X	269.84543	250.81966	95.35933	5.05053	0.1085819	0.28850313	2.2683098	21	5 10.4	19.3
88482 2001 QA_{122}	15.4	X	144.97061	23.14879	21.98489	3.08352	0.0964885	0.22763876	2.6564720	21	3 14.9	19.2
88483 2001 QQ_{125}	16.2	X	298.63074	216.98559	42.37756	4.59750	0.1169468	0.28054019	2.3110322	21	2 16.9	19.1
88484 2001 QV_{126}	15.2	X	259.49346	137.44340	252.81729	7.45718	0.1815097	0.24081290	2.5586814	21	6 18.2	18.8
88485 2001 QY_{128}	15.8	X	156.97697	99.62142	250.82260	4.89376	0.1480059	0.27172660	2.3607389	21	1 15.3	19.2
88486 2001 QA_{130}	16.1	X	7.99681	58.59708	193.82394	6.62540	0.0907882	0.28920676	2.2646291	21	6 1.6	18.3
88487 2001 QN_{130}	15.8	X	302.66705	33.85309	283.64272	5.17164	0.1406588	0.28824817	2.2696472	21	5 6.3	18.3
88488 2001 QH_{131}	15.0	X	115.70823	181.92053	233.47134	5.74187	0.1691963	0.22257343	2.6966247	21	2 28.7	18.8
88489 2001 QR_{131}	16.1	X	156.01097	215.09313	127.73540	5.93400	0.2024077	0.26901260	2.3765902	21	1 11.9	19.5
88490 2001 QH_{132}	15.8	X	298.00415	166.78729	291.18325	7.37762	0.0587040	0.30500001	2.1857617	21	12 16.9	17.9
88491 2001 QH_{135}	15.8	X	158.93955	83.05319	248.81187	6.95398	0.2264891	0.26737688	2.3862731	21	1 3.6	19.4
88492 2001 QL_{136}	14.8	X	168.42629	114.65836	275.07688	11.95731	0.1646430	0.22490230	2.6779767	21	3 18.6	19.3
88493 2001 QG_{137}	15.8	X	19.93848	14.21969	292.99372	5.31252	0.1897908	0.29455073	2.2371545	21	10 3.2	17.8
88494 2001 QL_{137}	14.7	X	93.33616	202.52135	307.85770	5.93288	0.0566612	0.27920702	2.3183829	21	5 15.7	17.6
88495 2001 QP_{137}	15.6	X	349.32231	319.82457	343.43973	13.61372	0.2178436	0.24000418	2.5644260	21	7 15.5	17.9
88496 2001 QT_{137}	15.0	X	354.12986	353.21950	346.95665	12.88757	0.1640104	0.24401610	2.5362403	21	9 19.9	17.4
88497 2001 QA_{138}	14.2	X	266.85623	176.48176	243.00657	8.55074	0.0683447	0.18985660	2.9981423	21	8 16.5	18.5
88498 2001 QO_{138}	14.7	X	4.58942	21.28614	345.44412	11.23282	0.0479952	0.19730147	2.9222396	21	10 26.0	18.7
88499 2001 QV_{138}	14.3	X	331.84790	48.12000	331.37616	11.39278	0.1916085	0.19448154	2.9504197	21	9 20.1	17.5
88500 2001 QZ_{138}	14.8	X	88.42964	155.42672	290.26978	8.32819	0.2513461	0.26690430	2.3890891	21	3 7.4	17.4
88501 2001 QC_{139}	15.3	X	144.07188	56.35251	266.27200	7.96690	0.2368221	0.26354560	2.4093443	21	—	—
88502 2001 QC_{140}	14.9	X	353.18951	134.67145	333.14760	12.92682	0.1624714	0.25776538	2.4452296	21	—	—
88503 2001 QO_{140}	14.5	X	172.92978	172.56566	239.73762	14.88009	0.1070236	0.22594013	2.6697697	21	4 21.2	18.7
88504 2001 QQ_{140}	15.1	X	185.29706	154.89836	266.81507	6.04718	0.0902251	0.27868526	2.3212756	21	5 14.2	18.5
88505 2001 QT_{140}	15.4	X	262.94999	17.84450	334.60792	10.67793	0.0311666	0.28129257	2.3069094	21	5 16.3	18.5
88506 2001 QW_{140}	15.4	X	215.87426	125.29275	259.64762	6.97882	0.1361181	0.27885140	2.3203535	21	4 26.5	18.9
88507 2001 QC_{142}	16.0	X	93.92108	260.54746	52.31251	4.08812	0.2000651	0.30572349	2.1823120	21	—	—
88508 2001 QM_{144}	16.1	X	261.89203	275.08425	89.29360	6.97307	0.1261629	0.28112947	2.3078016	21	5 23.6	19.2
88509 2001 QN_{149}	15.1	X	167.06198	147.96973	333.29191	12.42014	0.1209228	0.24255077	2.5464449	21	7 18.5	19.1
88510 2001 QB_{150}	15.5	X	245.40089	285.22559	73.72167	5.71957	0.1510852	0.23165556	2.6256745	21	4 28.7	19.5
88511 2001 QK_{154}	15.4	X	249.43286	147.27832	232.76591	8.04196	0.1963991	0.23765772	2.5812779	21	5 23.9	19.4
88512 2001 QM_{154}	16.0	X	0.11515	263.85211	103.92981	8.06803	0.2429564	0.29781731	2.2207658	21	12 13.7	17.7
88513 2001 QB_{155}	15.2	X	168.26653	258.32418	253.65902	6.75747	0.1432809	0.24548036	2.5261446	21	8 22.8	19.4
88514 2001 QS_{155}	15.9	X	103.55939	98.42528	259.65011	2.54658	0.1579351	0.26442840	2.4039789	21	—	—
88515 2001 QM_{156}	16.0	X	210.27412	158.03913	178.53682	6.61283	0.1360129	0.27712081	2.3300038	21	2 18.5	19.5
88516 2001 QE_{159}	16.8	X	135.94225	8.53919	349.34573	0.88258	0.1961782	0.26881266	2.3777685	21	1 8.7	19.8
88517 2001 QO_{159}	15.8	X	238.68986	310.71100	143.43656	5.41732	0.0800844	0.24595486	2.5228946	21	9 1.9	19.3
88518 2001 QG_{160}	16.7	X	210.87319	160.47666	147.82194	2.52869	0.2209546	0.27487861	2.3426572	21	1 18.2	20.5
88519 2001 QS_{163}	14.8	X	313.63643	200.62002	227.46118	8.53999	0.1517014	0.19697666	2.9254513	21	10 29.4	18.1
88520 2001 QZ_{166}	14.9	X	110.01265	47.89234	36.57863	5.95418	0.1165710	0.22777023	2.6554496	21	3 27.3	18.4
88521 2001 QN_{168}	14.2	X	42.65638	347.61995	44.14784	14.36375	0.1861493	0.20283447	2.8688524	21	—	—
88522 2001 QM_{171}	15.8	X	204.42711	199.08249	207.15707	6.81168	0.1846697	0.23548226	2.5971513	21	5 16.8	20.0
88523 2001 QH_{174}	16.0	X	173.57222	127.73020	249.95243	1.18179	0.1056931	0.22683470	2.6627459	21	3 10.9	20.0
88524 2001 QS_{174}	15.7	X	199.28102	211.96959	103.09128	8.14499	0.1330028	0.27360428	2.3499257	21	1 13.8	19.2
88525 2001 QU_{174}	15.3	X	308.93017	117.35474	261.30642	3.18483	0.1091042	0.24462402	2.5320366	21	8 22.8	18.2
88526 2001 QZ_{175}	16.4	X	138.98747	121.65485	300.55023	1.16884	0.0744191	0.22944203	2.6425349	21	3 25.5	20.2
88527 2001 QQ_{177}	15.9	X	267.38855	135.24547	241.84524	5.56497	0.1195145	0.28346634	2.2951005	21	6 17.6	18.7
88528 2001 QU_{177}	14.2	X	270.49068	95.60747	243.34040	13.42378	0.1127408	0.22918112	2.6445401	21	5 2.3	18.0
88529 2001 QF_{180}	16.0	X	143.86277	236.22376	144.07709	10.48079	0.1635249	0.27131394	2.3631320	21	2 10.7	19.2
88530 2001 QK_{180}	16.4	X	131.20628	292.41870	26.56492	3.60675	0.2015472	0.26376413	2.4080133	21	—	—
88531 2001 QO_{180}	16.2	X	200.14240	193.67200	102.18764	7.22385	0.1126415	0.26999022	2.3708497	21	—	—
88532 2001 QO_{181}	14.6	X	117.94811	298.53492	106.12774	7.13910	0.1140393	0.26617033	2.3934790	21	2 5.8	17.5
88533 2001 QB_{183}	14.8	X	198.28629	283.52994	128.50024	12.30316	0.1587560	0.22760033	2.6567710	21	5 22.2	19.3
88534 2001 QG_{183}	14.8	X	228.02616	58.16044	330.54283	8.32485	0.0907979	0.18728533	3.0255212	21	5 21.7	19.5
88535 2001 QR_{183}	16.3	X	134.83020	333.93073	172.63685	5.13330	0.0913197	0.28552552	2.2840525	21	7 11.8	19.4
88536 2001 QN_{184}	15.9	X	269.37619	357.24068	269.38149	12.76316	0.1534714	0.27901639	2.3194387	21	1 16.9	19.4
88537 2001 QF_{185}	15.5	X	267.21575	346.56614	279.82836	9.17605	0.1942582	0.27756815	2.3274997	21	1 13.7	19.2
88538 2001 QG_{187}	14.8	X	86.87594	244.05279	247.59305	21.19813	0.0326566	0.22826698	2.6515958	21	4 7.3	18.7
88539 2001 QZ_{188}	15.4	X	153.39412	332.83640	141.28820	12.28366	0.1324119	0.23817643	2.5775288	21	6 23.3	19.6
88540 2001 QP_{189}	15.0	X	272.36109	169.48947	253.20610	14.95216	0.1197994	0.24478472	2.5309283	21	8 19.8	18.7
88541 2001 QC_{190}	14.5	X	114.74930	227.77487	230.30583	16.40090	0.1169819	0.22838957	2.6506468	21	4 15.9	18.4
88542 2001 QY_{190}	15.0	X	278.76552	17.14865	128.31519	16.15263	0.0774446	0.21229857	2.7829453	21	12 27.4	18.7
88543 2001 QH_{191}	14.6	X	130.09598	158.84960	257.07294	21.01450	0.0728958	0.22400487	2.6851244	21	2 24.6	18.9
88544 2001 QM_{191}	15.7	X	310.06489	319.61980	115.37260	6.14111	0.0445576	0.25606386	2.4560499	21	11 23.6	18.6
88545 2001 QV_{191}	14.8	X	333.35279	191.40420	326.77174	27.12455	0.1380626	0.26653379	2.3913026	21	—	—
88546 2001 QJ_{192}	14.8	X	196.74241	181.97048	258.67665	10.64456	0.1318786	0.23578088	2.5949580	21	6 22.6	18.9
88547 2001 QX_{192}	14.9	X	81.88380	299.12204	210.41246	21.64448	0.0954837	0.23080913	2.6320899	21	5 10.7	18.3
88548 2001 QS_{194}	15.8	X	357.53415	352.68787	312.77634	13.35468	0.1059607	0.24128439	2.5553471	21	8 3.9	18.6
88549 2001 QG_{197}	14.7	X	233.50498	141.06787	247.99823	21.23785	0.0660695	0.23308986	2.6148922	21	5 30.8	18.3
88550 2001 QT_{197}	14.5	X	124.56532	126.99439	257.72157	5.87867	0.1774167	0.21614326	2.7498452	21	2 3.6	18.6
88551 2001 QD_{198}	15.8	X	204.47225	40.93825	289.17586	3.88505	0.2467727	0.27232450	2.3572822	21	2 8.6	19.8
88552 2001 QG_{198}	15.5	X	211.10865	152.40575	228.77918	5.75520	0.1204345	0.27743853	2.3282246	21	4 18.2	18.8
88553 2001 QN_{198}	14.6	X	343.21769	303.32970	16.31968	15.52577	0.1416546	0.23850471	2.5751631	21	8 4.3	17.6
88554 2001 QW_{199}	13.8	X	293.33684	259.74835	18.34924	22.54594	0.1169515	0.17557934	3.1585453	21	3 25.2	18.4
88555 2001 QG_{200}	14.5	X	230.19300	20.21160	24.23574	9.65918	0.1288073	0.18154728	3.0889405	21	6 10.7	19.4
88556 2001 QG_{214}	17.3	X	120.37946	32.07843	279.73737	0.68248	0.1739187	0.26192736	2.4192577	21	—	—
88557 2001 QW_{214}	15.4	X	233.49257	71.33475	359.01980	4.48588	0.0523254	0.24148237	2.5539502	21	7 28.8	18.8
88558 2001 QW_{216}	15.7	X	88.00009	140.60265	15.21146	5.74718	0.0698722	0.23415863	2.6069294	21	5 21.4	19.1
88559 2001 QB_{219}	15.6	X	46.13737	204.67049	245.04459	0.90817	0.0464909	0.21911380	2.7249355	21	—	—
88560 2001 QY_{223}	15.8	X	318.46870	167.02480	191.53072	5.95736	0.1678746	0.24543039	2.5264875	21	8 1.8	18.5

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
88561 2001 QF_{233}	14.8	X	323.47939	113.54691	336.70384	2.15628	0.1370914	0.20525849	2.8462211	21	12 19.3	18.0
88562 2001 QH_{233}	16.7	X	274.01425	296.11876	339.00812	3.93901	0.2006905	0.27888666	2.3201579	21	1 31.3	20.2
88563 2001 QT_{233}	16.7	X	175.89803	85.52485	221.69683	0.64690	0.1874586	0.26858979	2.3790837	21	—	—
88564 2001 QO_{239}	15.9	X	101.66387	39.98463	352.80949	4.81064	0.1220708	0.21847173	2.7302718	21	1 10.4	19.4
88565 2001 QH_{242}	15.1	X	171.24701	195.57925	204.05905	2.07767	0.0548607	0.22761609	2.6566484	21	4 2.1	18.9
88566 2001 QR_{242}	15.5	X	223.78398	333.43782	10.40128	6.69351	0.1264015	0.22825785	2.6516665	21	3 20.4	19.5
88567 2001 QN_{243}	15.5	X	61.06563	254.45893	350.69862	8.77624	0.0764246	0.24202032	2.5501643	21	8 20.8	18.7
88568 2001 QG_{244}	15.7	X	359.97485	186.40776	143.58350	5.49708	0.1388239	0.24491768	2.5300123	21	9 18.6	18.1
88569 2001 QT_{245}	16.4	X	255.59152	125.72099	162.27725	6.86285	0.1663660	0.27580084	2.3374321	21	1 31.3	20.1
88570 2001 QJ_{246}	16.0	X	355.70663	224.94756	162.85280	6.54086	0.1581267	0.30006276	2.2096729	21	12 21.5	18.1
88571 2001 QT_{246}	16.1	X	252.78495	208.71138	199.37071	3.37283	0.1553113	0.28768205	2.2726237	21	7 7.4	19.1
88572 2001 QZ_{247}	16.8	X	133.29192	152.80834	165.80102	0.44655	0.2236307	0.31221678	2.1519486	21	—	—
88573 2001 QF_{248}	14.4	X	351.56489	237.79116	164.12620	9.65778	0.1597858	0.19750615	2.9202204	21	12 5.6	17.8
88574 2001 QM_{248}	16.5	X	69.95815	318.81951	38.92093	2.70977	0.1773012	0.30670613	2.1776483	21	—	—
88575 2001 QU_{248}	15.9	X	206.62429	251.55404	156.22970	5.96305	0.1109318	0.28099056	2.3085621	21	5 21.6	19.3
88576 2001 QA_{249}	15.8	X	2.51458	209.93114	134.58926	3.90491	0.1954321	0.24597430	2.5227617	21	10 22.7	18.1
88577 2001 QV_{249}	14.3	X	57.08683	50.92390	19.64512	13.43522	0.1682600	0.21629636	2.7485475	21	—	—
88578 2001 QH_{251}	15.1	X	108.23255	188.17741	226.69919	8.04717	0.1781722	0.22426854	2.6830194	21	2 19.1	18.8
88579 2001 QE_{254}	15.6	X	162.02377	2.07669	117.53759	6.15037	0.0919342	0.23972156	2.5664412	21	7 7.1	19.3
88580 2001 QP_{258}	16.2	X	204.88119	24.95579	236.29812	5.58894	0.0979230	0.26552663	2.3973457	21	—	—
88581 2001 QV_{258}	15.2	X	68.14128	266.68722	275.80421	6.29725	0.1426774	0.23417216	2.6068290	21	6 11.8	18.3
88582 2001 QN_{259}	15.3	X	125.41510	129.79061	230.92919	6.70617	0.1613526	0.26628721	2.3927786	21	—	—
88583 2001 QM_{261}	16.1	X	260.86360	75.87542	227.49811	6.29687	0.1414973	0.27859215	2.3217929	21	2 24.3	19.7
88584 2001 QZ_{261}	15.7	X	358.39397	273.54117	307.23981	9.41160	0.0883020	0.27847322	2.3224539	21	3 20.7	18.3
88585 2001 QP_{262}	15.1	X	297.49976	292.85477	12.53459	13.78183	0.1541830	0.23270506	2.6177741	21	4 14.6	18.7
88586 2001 QT_{262}	14.8	X	253.68093	214.20098	176.15196	15.34681	0.1312735	0.23574764	2.5952019	21	6 18.6	18.9
88587 2001 QK_{263}	15.7	X	138.27825	52.16872	352.26618	6.58062	0.0884038	0.27025639	2.3692928	21	2 27.1	18.6
88588 2001 QP_{263}	15.1	X	213.36725	25.80021	3.81442	2.80457	0.0766829	0.23157679	2.6262699	21	5 6.5	18.8
88589 2001 QC_{264}	15.0	X	198.57310	203.06064	187.34957	7.51142	0.1926311	0.22702656	2.6612455	21	4 22.9	19.5
88590 2001 QE_{264}	14.9	X	236.18030	201.44204	178.90908	4.38261	0.1380213	0.23110387	2.6298515	21	5 17.1	18.8
88591 2001 QL_{264}	16.0	X	152.56337	15.86881	340.59849	1.95989	0.2258243	0.26731425	2.3866458	21	1 28.8	19.4
88592 2001 QL_{267}	16.3	X	318.27051	137.57717	184.21344	5.02674	0.2059911	0.29069179	2.2569098	21	5 30.2	18.4
88593 2001 QC_{268}	16.6	X	251.65505	51.88250	244.52359	2.71792	0.0887258	0.27836893	2.3230339	21	2 11.0	19.9
88594 2001 QA_{269}	14.8	X	152.40136	305.83176	74.02316	14.38905	0.2078823	0.22099832	2.7094225	21	3 9.5	19.4
88595 2001 QD_{270}	15.8	X	219.45638	285.51525	111.77260	6.53666	0.1292908	0.28781297	2.2719345	21	5 20.3	19.1
88596 2001 QN_{270}	16.1	X	13.07588	29.80628	125.80604	12.53725	0.0751617	0.27756957	2.3274917	21	1 16.5	18.4
88597 2001 QS_{270}	15.9	X	49.84963	287.09146	93.42475	3.69374	0.0922713	0.26279606	2.4139234	21	—	—
88598 2001 QM_{271}	16.0	X	302.29118	351.66494	8.05439	5.94041	0.0801602	0.24461164	2.5321220	21	7 22.7	19.1
88599 2001 QS_{274}	15.6	X	1.13876	158.55118	74.81813	6.02640	0.1149932	0.28625782	2.2801556	21	4 19.0	17.6
88600 2001 QA_{280}	15.1	X	165.40481	304.19150	136.98323	11.37170	0.1337287	0.23269444	2.6178537	21	5 26.4	19.4
88601 2001 QF_{284}	15.1	X	135.14044	351.29261	152.39046	4.39938	0.1529636	0.23778706	2.5803418	21	7 13.3	19.1
88602 2001 QA_{291}	15.2	X	107.66044	187.80329	189.92540	8.17409	0.2221527	0.21464398	2.7626354	21	1 12.9	19.0
88603 2001 QL_{291}	14.6	X	63.97952	267.42430	171.10464	9.08708	0.1515451	0.21509146	2.7588025	21	1 14.3	17.8
88604 2001 QH_{293}	13.4	X	80.17311	187.68868	286.23214	11.75680	0.1073667	0.22617975	2.6678837	21	3 14.9	17.0
88605 2001 QK_{294}	15.8	X	241.71043	145.67277	284.36366	1.23306	0.0742166	0.24479662	2.5308463	21	8 3.6	19.3
88606 2001 QU_{294}	15.9	X	277.48547	71.43829	278.67744	1.49158	0.1653236	0.23694770	2.5864319	21	5 18.9	19.4
88607 2001 QE_{296}	16.3	X	286.33540	336.85965	342.88363	2.73573	0.2664115	0.28403591	2.2920313	21	4 1.1	19.6
88608 2001 QO_{296}	16.4	X	27.66613	298.55343	39.95106	5.54532	0.1330644	0.29834945	2.2181244	21	11 26.0	18.7
88609 2001 QP_{296}	16.0	X	130.33482	278.19300	31.99846	3.95338	0.2622175	0.31108604	2.1571600	21	—	—
88610 2001 QD_{297}	15.9	X	212.17825	84.13883	249.64025	1.08324	0.2453840	0.27481898	2.3429961	21	2 18.8	19.9
88611 Teharonhiawako	5.8	X	154.05877	247.75076	304.52732	2.56903	0.0207724	0.00333503	44.3679348	21	9 9.6	22.4
88612 2001 QE_{328}	15.3	X	113.90828	14.56748	70.12226	5.94617	0.0063986	0.22763291	2.6565175	21	3 17.7	18.9
88613 2001 RO_{1}	16.1	X	182.15288	143.21562	177.68878	5.88329	0.1205008	0.27075915	2.3663589	21	1 2.6	19.6
88614 2001 RP_{1}	16.5	X	142.64222	107.64056	194.37073	2.48952	0.1767683	0.26372993	2.4082215	21	—	—
88615 2001 RG_{3}	16.1	X	325.29120	4.94709	273.92907	7.12547	0.1205042	0.28631300	2.2798626	21	4 16.6	18.6
88616 2001 RC_{4}	14.7	X	155.50985	186.25198	315.81262	13.25009	0.1203587	0.24297781	2.5434603	21	7 31.8	18.6
88617 2001 RT_{6}	15.3	X	208.28788	168.15643	174.87192	2.48308	0.0781446	0.22469787	2.6796006	21	3 4.1	19.3
88618 2001 RH_{7}	15.1	X	351.15565	156.91399	60.87714	3.10664	0.0221110	0.22606627	2.6687765	21	3 26.8	18.6
88619 2001 RD_{8}	16.1	X	298.13133	36.58151	264.26043	2.46596	0.1525715	0.28463070	2.2888371	21	4 4.5	19.1
88620 2001 RF_{8}	16.3	X	292.74669	353.94020	243.50607	3.57894	0.1065388	0.27644167	2.3338183	21	1 11.4	19.5
88621 2001 RR_{10}	15.1	X	320.97981	238.48517	143.00874	9.27331	0.2820179	0.24366222	2.5386953	21	8 30.9	16.8
88622 2001 RU_{10}	15.7	X	139.65323	179.83778	180.45596	5.88346	0.1415180	0.26825377	2.3810700	21	1 7.8	18.8
88623 2001 RD_{20}	14.8	X	60.30686	291.27730	185.67397	4.96741	0.0246057	0.17633921	3.1494650	21	2 23.7	19.2
88624 2001 RR_{21}	16.9	X	15.25583	66.96284	334.89389	4.70477	0.1497718	0.30676695	2.1773605	21	—	—
88625 2001 RD_{23}	15.3	X	63.54849	311.08224	194.67479	0.59611	0.1349491	0.22942985	2.6426284	21	4 12.3	18.3
88626 2001 RW_{26}	16.1	X	142.81341	329.94155	12.85284	1.49480	0.2022492	0.26799090	2.3826268	21	—	—
88627 2001 RT_{31}	16.4	X	317.64598	148.16725	189.95548	7.11755	0.2305027	0.29349568	2.2425127	21	6 19.2	18.4
88628 2001 RF_{34}	15.8	X	155.00294	215.59579	295.07292	6.29298	0.0919846	0.29359451	2.2420094	21	8 10.5	18.9
88629 2001 RQ_{34}	16.0	X	352.89317	38.59118	254.45974	3.20872	0.1696427	0.29280013	2.2460627	21	7 4.6	17.5
88630 2001 RU_{34}	16.6	X	145.22035	321.50856	280.04096	5.42222	0.1320630	0.30712750	2.1756561	21	12 2.4	19.6
88631 2001 RM_{37}	16.6	X	294.58348	73.42757	240.27572	2.56850	0.1307135	0.28657514	2.2784721	21	4 21.9	19.3
88632 2001 RW_{38}	16.2	X	0.12946	32.47476	236.52436	2.69138	0.1859758	0.24110804	2.5565929	21	6 12.1	18.3
88633 2001 RP_{43}	15.6	X	159.14572	274.92133	189.43921	12.25054	0.0821611	0.23524736	2.5988799	21	6 13.6	19.7
88634 2001 RE_{45}	15.9	X	233.54905	211.47384	145.28307	7.00039	0.1226186	0.27819725	2.3239895	21	4 13.1	19.3
88635 2001 RH_{45}	15.0	X	79.49423	86.25977	329.77567	2.91085	0.0423977	0.21602131	2.7508800	21	—	—
88636 2001 RM_{45}	15.7	X	295.98708	314.93898	33.29110	3.83598	0.1732196	0.23859585	2.5745073	21	6 8.8	18.9
88637 2001 RJ_{46}	15.4	X	338.05319	174.26668	197.98904	3.31685	0.2212552	0.24548208	2.5261328	21	10 7.6	17.1
88638 2001 RL_{46}	15.5	X	295.32929	117.77109	203.41139	13.05780	0.0076607	0.23669484	2.5882736	21	5 29.1	19.0
88639 2001 RG_{49}	15.1	X	327.21438	201.23046	96.59131	25.77800	0.1889920	0.28722691	2.2750239	21	5 22.1	17.8
88640 2001 RU_{49}	14.8	X	132.92814	297.19785	234.91751	13.11262	0.1319248	0.24197003	2.5505176	21	8 10.5	19.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
88641 2001 RS_{51}	15.0	X	22.83685	252.14491	221.93467	11.86681	0.1523524	0.21776287	2.7361936	21	—	—
88642 2001 RV_{51}	14.7	X	63.71232	211.14040	287.94006	11.64552	0.1095296	0.22784154	2.6548956	21	3 23.7	18.2
88643 2001 RK_{55}	15.1	X	131.35345	2.58453	163.22118	15.34338	0.1356919	0.24148113	2.5539590	21	8 4.8	19.1
88644 2001 RA_{65}	15.6	X	129.56812	51.00416	275.91438	5.49529	0.1715382	0.26320819	2.4114029	21	—	—
88645 2001 RD_{65}	16.2	X	313.38989	107.89590	291.92423	5.07617	0.1129101	0.29623407	2.2286714	21	10 7.7	18.2
88646 2001 RO_{65}	15.3	X	158.87477	97.23775	258.70045	4.40345	0.1367341	0.22011204	2.7166906	21	1 31.3	19.5
88647 2001 RX_{66}	14.9	X	62.42027	291.82469	256.99111	6.67055	0.1268501	0.23247662	2.6194887	21	6 9.3	17.9
88648 2001 RZ_{66}	15.0	X	94.95408	87.93164	312.68826	6.87805	0.0548338	0.21594622	2.7515177	21	1 2.2	18.6
88649 2001 RO_{67}	15.5	X	294.81613	154.27778	229.08999	4.28082	0.1180964	0.24145464	2.5541458	21	8 4.4	18.5
88650 2001 RY_{67}	15.2	X	196.89043	153.83420	216.33741	7.99729	0.1011997	0.22656674	2.6648450	21	3 24.1	19.4
88651 2001 RZ_{68}	14.9	X	5.98188	252.20991	303.20920	5.35571	0.1721875	0.27509697	2.3414174	21	2 19.3	16.9
88652 2001 RF_{69}	15.5	X	180.87854	155.23369	207.47762	12.31192	0.1760494	0.22347677	2.6893529	21	2 28.9	20.1
88653 2001 RH_{69}	14.7	X	99.91508	144.73118	239.47859	4.66162	0.0804808	0.21443944	2.7643918	21	—	—
88654 2001 RQ_{69}	15.5	X	97.00992	171.61523	332.38236	4.42242	0.0565941	0.28014369	2.3132122	21	5 11.9	18.3
88655 2001 RY_{69}	14.6	X	235.96551	195.20347	233.46658	4.89377	0.1400752	0.18763833	3.0217255	21	7 16.1	19.2
88656 2001 RM_{71}	15.9	X	179.78423	320.24154	343.92412	4.89047	0.2266562	0.26769783	2.3843654	21	—	—
88657 2001 RT_{71}	16.1	X	281.18853	196.99407	205.47525	5.40322	0.1017558	0.29121663	2.2541973	21	8 16.1	18.6
88658 2001 RK_{74}	15.6	X	18.10177	119.52005	211.21658	3.79955	0.1020327	0.24634715	2.5202156	21	10 16.4	18.3
88659 2001 RY_{74}	16.5	X	236.71044	286.11694	13.87496	3.31502	0.2511042	0.27503803	2.3417519	21	1 29.3	20.5
88660 2001 RN_{75}	16.1	X	318.69719	323.67392	41.34842	6.59602	0.1630186	0.29128506	2.2538443	21	8 23.7	18.0
88661 2001 RJ_{76}	15.7	X	284.93910	138.08557	170.17784	7.17661	0.1391224	0.27876259	2.3208463	21	4 3.2	18.8
88662 2001 RN_{76}	15.3	X	274.91782	244.98973	103.13172	5.12790	0.1400475	0.23227649	2.6209931	21	5 18.5	18.9
88663 2001 RJ_{77}	15.8	X	249.58652	278.67170	98.58686	3.89858	0.1763609	0.28202599	2.3029082	21	5 20.9	19.1
88664 2001 RK_{77}	15.8	X	77.52865	253.04552	163.20144	2.86847	0.1638688	0.26161545	2.4211802	21	—	—
88665 2001 RT_{78}	15.9	X	351.16173	218.92390	123.79388	3.64886	0.2081155	0.29289408	2.2455824	21	10 5.5	17.1
88666 2001 RP_{79}	16.1	X	73.84828	233.57004	114.27984	4.59478	0.2143027	0.30495659	2.1859692	21	—	—
88667 2001 RR_{79}	15.6	X	120.48193	205.95629	163.54597	6.81567	0.1098930	0.26211041	2.4181313	21	—	—
88668 2001 RM_{81}	14.9	X	93.91819	319.18262	173.05515	5.49817	0.1411129	0.27776745	2.3263862	21	5 8.1	17.6
88669 2001 RC_{84}	15.6	X	148.72781	29.12027	350.38382	5.46198	0.0527084	0.22279519	2.6948349	21	2 11.3	19.3
88670 2001 RL_{84}	15.7	X	105.69698	326.11793	209.47667	3.62257	0.0467568	0.23942459	2.5685629	21	7 9.1	19.1
88671 2001 RV_{84}	16.5	X	79.06529	0.89695	239.12304	3.36727	0.0653720	0.29535904	2.2330710	21	9 6.5	19.1
88672 2001 RO_{85}	16.9	X	12.51044	135.93161	191.08356	3.77610	0.0728782	0.29665273	2.2265741	21	10 6.4	19.0
88673 2001 RP_{87}	15.1	X	216.62890	36.91008	332.00438	1.86714	0.0852021	0.22971192	2.6404647	21	4 13.3	19.1
88674 2001 RW_{87}	16.6	X	29.67679	190.93965	181.03974	2.09901	0.1883999	0.30372500	2.1918745	21	—	—
88675 2001 RR_{88}	15.7	X	189.03522	291.93782	111.92331	3.00269	0.0697064	0.23020759	2.6366731	21	4 29.9	19.5
88676 2001 RD_{89}	15.1	X	125.66799	1.55416	21.14063	8.37806	0.0790839	0.21883415	2.7272565	21	1 24.2	19.0
88677 2001 RG_{90}	15.3	X	105.59846	50.93709	25.52895	9.79652	0.0676200	0.22313110	2.6921297	21	3 6.8	19.0
88678 2001 RC_{91}	15.5	X	135.28319	5.14736	10.51392	9.23205	0.1127119	0.21974337	2.7197284	21	1 31.9	19.5
88679 2001 RD_{92}	16.2	X	249.51886	244.99780	126.89867	2.45231	0.1082618	0.23521724	2.5991017	21	5 23.0	20.0
88680 2001 RH_{93}	15.0	X	150.97845	326.03115	59.00105	3.07449	0.1336230	0.17246502	3.1964557	21	3 7.8	19.9
88681 2001 RW_{93}	15.9	X	118.55477	216.18991	183.44509	4.77888	0.1175794	0.21917620	2.7244183	21	2 7.1	19.6
88682 2001 RA_{97}	16.9	X	278.28579	57.06374	176.49477	2.67031	0.0988141	0.27329289	2.3517103	21	—	—
88683 2001 RF_{102}	16.1	X	238.29262	165.93196	108.97142	5.44623	0.1096700	0.27331549	2.3515807	21	1 1.8	19.5
88684 2001 RC_{104}	15.9	X	213.76804	153.88585	114.33311	5.38811	0.1313415	0.26906074	2.3763067	21	—	—
88685 2001 RB_{108}	15.2	X	346.10058	1.02282	156.30180	9.14877	0.2006701	0.22012017	2.7166238	21	—	—
88686 2001 RQ_{115}	16.9	X	157.07517	253.47141	8.98799	6.17617	0.2072163	0.31145476	2.1554572	21	—	—
88687 2001 RO_{121}	16.1	X	183.27120	167.30250	79.19043	2.57708	0.1743932	0.26215097	2.4178818	21	—	—
88688 2001 RK_{122}	15.3	X	3.88345	82.60106	31.75682	2.95793	0.0845377	0.21505142	2.7591449	21	—	—
88689 2001 RO_{126}	16.1	X	220.28992	229.25670	74.45655	4.00534	0.1715192	0.27441091	2.3453184	21	1 20.8	19.8
88690 2001 RL_{127}	15.8	X	209.37324	355.25373	82.81884	4.39983	0.0458010	0.23886342	2.5725843	21	7 8.0	19.2
88691 2001 RK_{129}	16.5	X	256.44023	297.94980	141.85178	4.43473	0.0557296	0.29500094	2.2348778	21	9 14.8	18.9
88692 2001 RU_{132}	15.8	X	256.69606	257.67062	114.74130	5.58807	0.0770463	0.23684198	2.5872016	21	6 5.4	19.3
88693 2001 RM_{133}	16.4	X	154.76900	206.89403	122.62446	3.09277	0.2036768	0.26781140	2.3836913	21	—	—
88694 2001 RH_{139}	15.9	X	111.85337	82.26685	101.16754	0.65779	0.0676054	0.24077796	2.5589289	21	7 31.6	19.4
88695 2001 RO_{139}	15.1	X	177.80953	334.60515	107.45749	3.53122	0.1986626	0.18302022	3.0723451	21	6 8.3	20.2
88696 2001 RS_{139}	15.8	X	209.10307	6.93508	11.39604	9.41702	0.1418071	0.18113520	3.0936237	21	4 18.6	20.8
88697 2001 RF_{141}	16.5	X	213.46583	258.53359	56.85088	5.10179	0.2670294	0.27479038	2.3431587	21	1 31.2	20.6
88698 2001 RQ_{142}	16.0	X	288.38117	272.41301	69.85586	6.17372	0.1932196	0.28499352	2.2868941	21	5 15.9	19.0
88699 2001 RW_{142}	15.9	X	298.45175	239.80593	119.25117	7.18440	0.2064320	0.28745990	2.2737945	21	6 22.0	18.4
88700 2001 RF_{143}	15.0	X	333.54303	181.14251	311.05935	8.23286	0.1031490	0.21259591	2.7803498	21	—	—
88701 2001 RW_{150}	15.9	X	119.10201	188.39582	89.80365	7.01591	0.0867856	0.25523843	2.4613423	21	12 13.9	19.3
88702 2001 RC_{151}	16.3	X	258.29071	138.21839	130.31603	8.47066	0.1562862	0.27470662	2.3436349	21	1 11.2	19.9
88703 2001 RF_{155}	14.9	X	54.79969	329.85030	153.63112	15.85056	0.1363068	0.22101774	2.7092638	21	2 27.3	17.7
88704 2001 SF	16.0	X	157.47084	228.24337	96.38563	3.33447	0.2225943	0.26795149	2.3828604	21	—	—
88705 Potato	14.3	X	359.02357	15.90066	202.45715	10.02265	0.0796354	0.17914397	3.1165057	21	4 8.5	18.1
88706 2001 SW	15.3	X	58.98381	88.96027	259.97035	1.82743	0.0306618	0.20522788	2.8465041	21	12 17.4	19.2
88707 2001 SB_{1}	16.3	X	234.62323	110.07045	201.81701	6.18117	0.1522610	0.27589180	2.3369182	21	2 9.9	20.0
88708 2001 SM_{1}	16.9	X	60.70684	3.77722	345.30632	2.62946	0.1589460	0.30574607	2.1822046	21	—	—
88709 2001 SA_{3}	15.1	X	330.47129	30.82901	136.10680	3.22243	0.0314159	0.21554783	2.7549070	21	—	—
88710 2001 SL_{9}	17.6	X	241.83200	329.33933	202.83829	21.90153	0.2701492	0.90130965	1.0614186	21	—	—
88711 2001 SQ_{9}	15.0	X	306.50935	89.25663	337.67863	1.18400	0.1034765	0.19509064	2.9442753	21	10 20.4	18.7
88712 2001 SA_{11}	15.6	X	73.34882	288.87493	221.93681	10.59996	0.1332463	0.23086426	2.6316709	21	5 4.9	18.8
88713 2001 ST_{18}	15.7	X	358.65785	11.91708	157.40162	2.22692	0.1392641	0.27113118	2.3641938	21	1 5.7	18.3
88714 2001 SA_{21}	14.4	X	20.31470	64.05519	33.13322	9.39216	0.1272763	0.21165245	2.7886062	21	—	—
88715 2001 SO_{21}	16.0	X	200.47742	258.62337	174.63347	6.54852	0.1109876	0.28377707	2.2934248	21	6 17.2	19.3
88716 2001 SG_{22}	16.0	X	300.23282	16.57330	329.90357	2.13019	0.1515985	0.23931970	2.5693134	21	6 16.7	19.0
88717 2001 SL_{22}	16.2	X	46.29729	306.78995	344.95530	4.47747	0.1635669	0.29793328	2.2201895	21	10 21.3	18.8
88718 2001 SG_{23}	15.5	X	30.09843	352.95088	180.33536	3.56057	0.0425947	0.22685880	2.6625573	21	3 20.4	18.7
88719 2001 SL_{25}	15.7	X	113.92085	69.34307	139.72956	0.45239	0.1353804	0.24404203	2.5360606	21	9 13.7	19.2
88720 2001 ST_{26}	15.5	X	74.04706	339.09659	184.34196	9.73599	0.0297536	0.23105382	2.6302313	21	5 9.7	19.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
88721 2001 SD_{27}	14.6	X	36.00586	165.90074	11.53498	9.95228	0.0673990	0.17772101	3.1331188	21	4 10.3	18.6
88722 2001 SJ_{27}	16.0	X	67.54560	346.64317	176.72250	6.80979	0.0902025	0.27950373	2.3167418	21	5 3.9	18.5
88723 2001 ST_{27}	14.7	X	355.44791	48.30825	25.35078	5.28089	0.0956752	0.20659621	2.8339215	21	—	—
88724 2001 SJ_{28}	16.3	X	132.33468	135.08555	162.85166	4.96669	0.1750541	0.26038577	2.4287970	21	—	—
88725 2001 SE_{29}	15.1	X	342.23800	338.29258	165.22963	3.84063	0.0635221	0.21460810	2.7629433	21	—	—
88726 2001 SS_{31}	16.3	X	354.83261	184.94394	154.24513	2.62962	0.1827117	0.24557343	2.5255063	21	9 24.5	18.2
88727 2001 SX_{32}	14.9	X	30.39479	261.14068	170.38226	2.59507	0.1310376	0.21020079	2.8014303	21	—	—
88728 2001 SG_{33}	16.5	X	235.44985	288.96654	21.70912	2.38509	0.2257518	0.27648380	2.3335812	21	2 10.3	20.4
88729 2001 SW_{33}	15.5	X	65.66912	81.88571	136.59326	1.16097	0.1163839	0.23774041	2.5806793	21	7 24.9	18.8
88730 2001 SB_{35}	15.5	X	183.86049	310.77043	43.72618	3.37495	0.1104551	0.22296784	2.6934437	21	2 23.9	19.7
88731 2001 SJ_{36}	14.4	X	121.63394	82.51384	24.56103	8.69682	0.1433972	0.17697517	3.1419155	21	5 12.8	19.2
88732 2001 SR_{36}	15.6	X	57.26026	122.19435	20.56719	5.19588	0.0566157	0.27437809	2.3455053	21	3 13.9	18.1
88733 2001 SH_{37}	15.6	X	21.11464	330.05047	180.35550	8.43127	0.1847527	0.26859744	2.3790385	21	1 12.9	17.8
88734 2001 SP_{42}	15.5	X	13.70814	160.47284	74.24645	2.37838	0.0277610	0.23349840	2.6118413	21	5 18.7	18.6
88735 2001 SV_{42}	16.7	X	143.74802	287.60990	28.30265	2.84196	0.1959290	0.26445801	2.4037994	21	—	—
88736 2001 SK_{43}	15.3	X	71.06020	299.21834	186.47444	11.98446	0.1205580	0.22360341	2.6883374	21	3 26.3	18.6
88737 2001 SX_{43}	16.4	X	287.24594	257.19653	140.91064	2.44415	0.1634985	0.29199580	2.2501855	21	8 10.8	18.7
88738 2001 SF_{44}	15.9	X	57.15540	268.18841	86.44274	3.35690	0.1887603	0.25612280	2.4556731	21	—	—
88739 2001 SR_{44}	16.1	X	77.70450	161.15494	121.50280	3.06986	0.1646158	0.30084620	2.2058350	21	11 19.7	19.2
88740 2001 SY_{44}	16.2	X	179.29173	189.55535	99.19827	2.39694	0.1712195	0.26567726	2.3964394	21	—	—
88741 2001 SS_{45}	15.4	X	99.70060	87.58707	51.18111	6.70235	0.0860809	0.28007856	2.3135709	21	5 14.8	18.2
88742 2001 SU_{48}	15.9	X	247.91364	134.79136	150.91560	8.08825	0.1451193	0.27398092	2.3477715	21	1 22.8	19.6
88743 2001 SD_{49}	15.7	X	138.94657	262.50466	73.74975	4.18206	0.1993965	0.26530135	2.3987026	21	—	—
88744 2001 SJ_{49}	15.6	X	285.79250	228.53070	116.53937	3.96509	0.1066025	0.23608994	2.5926928	21	6 1.9	19.0
88745 2001 SP_{50}	15.8	X	359.88141	296.92568	70.35076	5.52983	0.1414235	0.29855307	2.2171157	21	11 24.9	17.6
88746 2001 SY_{51}	15.3	X	339.92926	222.05008	45.87241	12.38150	0.0332048	0.23200535	2.6230348	21	5 13.9	18.7
88747 2001 SS_{52}	15.5	X	126.99015	282.75044	146.29386	3.01580	0.0647978	0.22331733	2.6906328	21	3 20.8	19.1
88748 2001 SD_{54}	16.7	X	93.68253	212.90292	82.70848	4.48797	0.1631949	0.30343772	2.1932577	21	12 21.9	20.0
88749 2001 SH_{54}	16.1	X	154.11685	276.15622	58.30783	6.12682	0.2120536	0.26679965	2.3897137	21	1 1.5	19.6
88750 2001 SW_{55}	15.3	X	324.71795	196.53163	167.86585	9.66348	0.2135417	0.24263253	2.5458728	21	8 18.9	17.5
88751 2001 SA_{56}	15.1	X	75.00361	30.09060	169.92856	12.96223	0.0989508	0.23483696	2.6019069	21	7 8.6	18.7
88752 2001 SC_{56}	16.2	X	129.55390	170.32032	163.50408	7.37216	0.1572269	0.26279233	2.4139462	21	—	—
88753 2001 SM_{58}	15.3	X	166.91541	162.36814	192.14760	8.71249	0.1423309	0.21973648	2.7197852	21	2 6.0	19.6
88754 2001 SK_{59}	15.1	X	4.89858	14.44606	140.43377	3.25194	0.0401142	0.21747611	2.7385984	21	1 21.4	18.6
88755 2001 SL_{60}	16.8	X	178.02490	133.65036	189.48827	0.79062	0.1994733	0.26931297	2.3748228	21	1 8.5	20.4
88756 2001 SN_{60}	14.8	X	234.37642	314.15982	175.73439	1.79903	0.0468989	0.19688052	2.9264035	21	10 12.5	19.0
88757 2001 SS_{61}	17.0	X	348.36601	353.75983	26.58953	3.44992	0.1506399	0.29796177	2.2200479	21	11 23.0	18.6
88758 2001 SW_{64}	15.9	X	249.13212	150.56295	171.43232	3.24397	0.1696498	0.22740272	2.6583099	21	3 14.8	20.2
88759 2001 SF_{65}	14.3	X	54.16606	349.94849	203.81212	16.83610	0.1330370	0.17852748	3.1236762	21	6 6.7	18.5
88760 2001 SG_{65}	15.9	X	186.76757	237.98694	181.27186	6.16610	0.0891186	0.27925311	2.3181278	21	5 14.9	19.2
88761 2001 SZ_{65}	15.5	X	359.68436	255.73909	54.18790	9.77755	0.1339780	0.24049915	2.5609063	21	8 21.3	18.3
88762 2001 SF_{66}	16.4	X	314.53198	211.26161	163.77244	4.73720	0.1270169	0.29173454	2.2515287	21	8 31.6	18.4
88763 2001 SS_{66}	15.2	X	241.23131	309.46475	33.94214	14.26442	0.0968634	0.22769111	2.6560648	21	4 10.3	19.1
88764 2001 SM_{67}	14.8	X	163.53411	196.86990	196.34829	13.14105	0.0194187	0.22221120	2.6995545	21	3 11.5	18.6
88765 2001 SY_{67}	15.9	X	245.95772	197.90527	155.01707	5.93780	0.1281674	0.27953006	2.3165964	21	4 20.3	19.2
88766 2001 SA_{68}	15.9	X	209.09376	250.32386	167.15634	6.79981	0.0856753	0.28154762	2.3055160	21	6 6.9	19.2
88767 2001 SR_{69}	15.7	X	279.98345	246.79791	135.15780	5.14407	0.1968502	0.23689457	2.5868186	21	6 29.9	19.1
88768 2001 SG_{70}	15.0	X	274.84001	281.04891	67.33749	12.51718	0.0978802	0.23142520	2.6274167	21	5 24.1	18.6
88769 2001 SH_{71}	15.7	X	156.51482	215.53582	140.57578	5.93132	0.2489362	0.26718461	2.3874178	21	2 2.8	19.5
88770 2001 ST_{72}	16.0	X	41.65509	202.99971	112.28139	6.14353	0.1994235	0.29613419	2.2291725	21	11 25.6	18.7
88771 2001 SA_{73}	16.4	X	323.20449	193.62578	151.42637	4.67931	0.2250345	0.28952457	2.2629716	21	7 14.9	18.1
88772 2001 SJ_{74}	15.0	X	212.27527	164.40387	221.53384	13.34608	0.1023020	0.23006958	2.6377275	21	4 30.4	18.9
88773 2001 SK_{74}	14.7	X	180.11034	183.17359	219.36698	11.82028	0.1750528	0.22714242	2.6603405	21	4 19.9	19.0
88774 2001 SC_{76}	15.3	X	269.34379	154.37850	213.42508	3.38467	0.2249874	0.23526280	2.5987662	21	5 25.7	19.3
88775 2001 SY_{76}	13.0	X	173.04270	234.14438	214.55891	4.09732	0.0445078	0.08518127	5.1157184	21	6 11.7	20.0
88776 2001 SC_{77}	15.5	X	171.37970	133.02378	227.98179	5.47827	0.0384365	0.22252079	2.6970499	21	2 9.9	19.4
88777 2001 SH_{79}	15.6	X	182.73035	205.09151	228.91506	3.65269	0.1684538	0.23609070	2.5926872	21	5 31.9	19.8
88778 2001 SQ_{88}	15.6	X	84.64287	314.36035	179.05456	7.64445	0.1074985	0.22958145	2.6414650	21	4 25.4	19.0
88779 2001 SK_{93}	15.5	X	235.07494	109.45453	327.82230	2.27419	0.1372220	0.19062206	2.9901107	21	7 27.7	19.9
88780 2001 SE_{98}	16.4	X	245.47796	35.76362	244.32593	2.88019	0.2300023	0.27549319	2.3391719	21	1 11.2	20.3
88781 2001 ST_{104}	15.9	X	122.41093	71.93809	250.27984	5.79459	0.1373901	0.26112508	2.4242105	21	—	—
88782 2001 SF_{106}	15.9	X	247.66851	189.31192	247.38117	5.63033	0.1134846	0.28951712	2.2630104	21	8 14.7	18.8
88783 2001 SK_{106}	15.7	X	60.80611	32.70382	320.93327	4.27384	0.2260364	0.25533922	2.4606945	21	—	—
88784 2001 SO_{106}	14.5	X	294.62622	251.60729	357.90600	7.86544	0.0886956	0.27211672	2.3584820	21	2 4.7	17.7
88785 2001 ST_{106}	16.1	X	103.81047	327.91809	340.93677	5.60093	0.2209961	0.30627042	2.1797132	21	—	—
88786 2001 SG_{107}	15.8	X	235.96676	132.38129	290.21660	5.32702	0.2174843	0.28454392	2.2893025	21	7 2.5	19.3
88787 2001 SS_{108}	14.5	X	235.51655	346.22651	21.34792	15.04686	0.2602701	0.22908749	2.6452606	21	4 20.1	19.1
88788 2001 SE_{109}	15.5	X	184.48974	128.44209	274.26271	5.83617	0.1433097	0.27448401	2.3449019	21	4 18.1	19.1
88789 2001 SC_{110}	16.4	X	302.17415	0.90367	353.25324	6.28814	0.1913253	0.28769786	2.2725405	21	6 23.5	18.9
88790 2001 SS_{110}	15.1	X	225.50575	276.39298	2.11187	6.79619	0.1204324	0.26461752	2.4028333	21	—	—
88791 2001 SZ_{110}	16.0	X	32.58750	342.17633	2.36070	7.19075	0.2039727	0.29822445	2.2187441	21	12 23.5	18.8
88792 2001 SV_{112}	16.0	X	297.81378	96.09790	214.52344	3.39735	0.2372260	0.28265528	2.2994889	21	4 5.9	19.2
88793 2001 SG_{114}	15.4	X	297.78967	250.24653	263.29891	3.08809	0.0471785	0.21007132	2.8025812	21	—	—
88794 2001 SF_{115}	15.7	X	170.65965	223.85149	102.63147	1.71570	0.0971260	0.21681203	2.7441876	21	1 6.3	19.5
88795 Morvan	15.4	X	273.77196	137.10158	196.17343	1.67379	0.0604502	0.23178109	2.6247265	21	5 7.7	18.8
88796 2001 SB_{116}	14.5	X	289.41029	164.50757	236.56325	12.23683	0.2024749	0.24273390	2.5451640	21	8 3.6	17.9
88797 2001 SL_{119}	16.4	X	65.95445	14.19521	234.76114	4.73470	0.1362408	0.29518235	2.2339621	21	9 11.9	19.2
88798 2001 SN_{119}	16.3	X	209.63230	173.54108	269.78445	4.26790	0.0378594	0.28940040	2.2636188	21	7 16.2	19.0
88799 2001 SV_{121}	14.7	X	306.83633	355.82783	310.21779	7.62425	0.0257950	0.18514928	3.0487469	21	5 21.9	19.0
88800 2001 SE_{122}	16.5	X	328.46148	73.09351	223.35092	5.12721	0.1833420	0.28843856	2.2686483	21	5 12.6	18.5

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88801 2001 SN_{122}	15.5	X	311.06742	77.21211	260.43052	3.77321	0.1184420	0.24003266	2.5642232	21	6 26.9	18.3
88802 2001 SR_{124}	14.9	X	222.79345	16.80948	259.73127	4.11259	0.1022655	0.17122475	3.2118730	21	1 6.5	19.8
88803 2001 SD_{129}	15.4	X	181.40655	314.59320	189.71907	15.06816	0.0530668	0.24348981	2.5398936	21	8 28.7	19.2
88804 2001 SU_{129}	15.9	X	96.66799	172.25357	215.67437	3.38965	0.1051803	0.21548743	2.7554218	21	—	—
88805 2001 SY_{129}	16.3	X	311.30435	94.70305	284.44841	1.50761	0.0338867	0.29424786	2.2386894	21	9 10.6	18.8
88806 2001 SS_{131}	16.0	X	300.96445	62.16466	220.18517	2.23509	0.0365879	0.23047381	2.6346423	21	4 8.6	19.3
88807 2001 SV_{134}	15.6	X	257.51024	204.97033	248.71965	1.22289	0.0675257	0.19606061	2.9345565	21	9 21.4	19.7
88808 2001 SF_{135}	16.9	X	56.90529	347.67567	318.65299	1.15634	0.1935427	0.30146363	2.2028221	21	11 30.4	19.8
88809 2001 SH_{139}	16.2	X	328.65354	6.73695	297.27379	1.21148	0.0642375	0.23684873	2.5871524	21	6 14.2	19.4
88810 2001 SU_{142}	15.7	X	36.47610	254.91608	223.51156	5.41221	0.0375876	0.22003116	2.7173563	21	1 16.7	19.2
88811 2001 SN_{143}	16.4	X	199.68246	84.00288	216.04489	3.31236	0.2164257	0.27111989	2.3642595	21	—	—
88812 2001 SQ_{146}	16.5	X	36.20521	91.87071	184.74574	3.15806	0.1765281	0.29448957	2.2374642	21	9 16.0	18.5
88813 2001 SJ_{147}	14.6	X	313.71333	321.48781	324.52155	24.32028	0.2774201	0.27902384	2.3193975	21	3 8.1	17.9
88814 2001 SE_{148}	16.0	X	209.64017	89.78637	260.55692	3.08946	0.1503233	0.27688068	2.3313507	21	3 7.0	19.5
88815 2001 SX_{149}	15.6	X	162.23843	172.61076	228.85731	5.21582	0.0572301	0.22586767	2.6703406	21	3 23.7	19.5
88816 2001 SE_{151}	16.6	X	75.19827	95.85803	206.49142	3.75622	0.1880366	0.30276534	2.1965037	21	12 14.4	19.7
88817 2001 SV_{151}	16.3	X	175.03137	301.59621	345.74039	1.63339	0.2235560	0.26506370	2.4001362	21	—	—
88818 2001 SF_{153}	15.4	X	218.54610	301.47236	343.99950	3.02567	0.0675972	0.21824241	2.7321840	21	1 5.5	19.5
88819 2001 SP_{153}	15.2	X	218.36342	177.41237	216.16442	1.99577	0.0591355	0.23213121	2.6220866	21	5 19.4	18.8
88820 2001 SZ_{153}	15.2	X	167.36188	99.04176	195.34717	6.12988	0.0377904	0.21198468	2.7856918	21	—	—
88821 2001 SB_{154}	16.5	X	199.60294	272.16329	4.81255	2.53707	0.2281517	0.26705360	2.3881985	21	—	—
88822 2001 SK_{155}	16.6	X	318.06705	165.58901	212.95768	4.46696	0.1430729	0.29355270	2.2422223	21	9 10.7	18.5
88823 2001 SF_{158}	16.3	X	134.83325	186.33570	329.22304	6.21561	0.0727539	0.28738362	2.2741968	21	7 24.8	19.4
88824 2001 SM_{158}	15.5	X	86.00498	246.50293	245.81266	2.90284	0.0830844	0.22734545	2.6587563	21	4 19.7	18.8
88825 2001 SG_{159}	15.9	X	13.93527	0.00287	298.57187	3.30745	0.1463284	0.24208558	2.5497060	21	8 26.8	18.4
88826 2001 SM_{160}	16.6	X	308.91284	161.05045	212.11207	4.95997	0.1194901	0.29146262	2.2529288	21	8 16.1	18.7
88827 2001 SJ_{161}	15.6	X	306.24604	303.12358	222.09946	2.01817	0.1225259	0.26179572	2.4200686	21	—	—
88828 2001 SO_{161}	15.1	X	197.03216	357.38897	359.71861	6.54971	0.0277243	0.22326579	2.6910469	21	3 9.7	18.7
88829 2001 SS_{162}	15.4	X	29.34518	172.04595	281.00625	0.97397	0.0135125	0.21367574	2.7709747	21	—	—
88830 2001 SY_{162}	16.6	X	100.96645	0.05391	346.95378	0.76553	0.2035623	0.26068710	2.4269250	21	—	—
88831 2001 SO_{163}	15.3	X	218.00495	158.35594	197.08545	1.36910	0.0839146	0.22701582	2.6613294	21	3 29.6	19.1
88832 2001 SY_{165}	16.1	X	20.77357	54.09975	214.08769	0.40698	0.0516502	0.24071464	2.5593777	21	7 16.9	19.0
88833 2001 SA_{169}	15.6	X	255.45685	13.22055	213.03204	0.53368	0.1409382	0.26289432	2.4133219	21	—	—
88834 2001 SJ_{169}	15.9	X	252.65117	156.28400	92.84737	2.13529	0.0596157	0.21600741	2.7509981	21	—	—
88835 2001 SX_{171}	15.7	X	243.43751	314.40560	73.18493	3.86580	0.0432591	0.23493491	2.6011837	21	6 12.7	19.3
88836 2001 SC_{175}	15.6	X	85.88335	39.09391	85.90465	3.11703	0.0472243	0.22685134	2.6626157	21	4 6.8	19.0
88837 2001 SL_{175}	16.5	X	194.74482	165.33753	125.24770	3.36635	0.1571602	0.26756622	2.3851472	21	—	—
88838 2001 SS_{175}	15.0	X	54.93439	16.17319	167.09265	11.47896	0.1221790	0.23019395	2.6367773	21	5 22.3	18.3
88839 2001 SJ_{176}	15.4	X	301.94937	306.28540	61.44684	4.38205	0.1476063	0.24020653	2.5629857	21	7 22.3	18.4
88840 2001 SC_{177}	15.2	X	265.62031	43.66114	147.05944	4.81168	0.1285438	0.25959658	2.4337170	21	—	—
88841 2001 SZ_{177}	16.2	X	10.43063	79.66697	279.11640	1.77467	0.1470244	0.29888775	2.2154603	21	12 1.2	18.4
88842 2001 SF_{178}	15.4	X	216.44579	358.10885	297.89096	0.99922	0.0530120	0.21963453	2.7206268	21	1 15.3	19.4
88843 2001 SK_{178}	16.8	X	19.21862	191.50565	151.94120	4.36011	0.1956365	0.29793763	2.2201679	21	12 2.4	19.0
88844 2001 SE_{179}	15.4	X	235.03495	163.98072	190.88074	12.54985	0.1334093	0.22722210	2.6597185	21	4 14.1	19.5
88845 2001 SN_{179}	14.8	X	170.23333	227.26428	190.30755	15.44382	0.0744569	0.17509226	3.1644004	21	5 1.3	19.7
88846 2001 SJ_{180}	15.6	X	116.17571	68.51472	351.95216	3.74508	0.0973984	0.22571640	2.6715336	21	2 28.2	19.1
88847 2001 SN_{191}	16.7	X	237.05863	285.47304	38.67345	2.53193	0.2069911	0.22948171	2.6422303	21	3 5.5	21.2
88848 2001 ST_{202}	16.0	X	98.79426	333.73932	168.06599	7.56046	0.1164904	0.28144308	2.3060869	21	5 24.9	18.9
88849 2001 SB_{205}	16.4	X	195.08542	277.08329	168.23226	6.29527	0.0670525	0.28688111	2.2768517	21	6 28.5	19.5
88850 2001 SL_{222}	15.5	X	77.35215	32.41743	37.76153	4.78817	0.0996470	0.21730328	2.7400503	21	1 21.2	18.8
88851 2001 SW_{222}	15.5	X	157.36561	345.97720	46.28922	2.51793	0.0829689	0.17438934	3.1728978	21	3 18.0	20.2
88852 2001 SN_{230}	15.7	X	116.78531	177.81155	169.25197	2.35296	0.0746613	0.21193374	2.7861382	21	—	—
88853 2001 ST_{231}	16.3	X	126.45873	281.28559	32.49615	4.74758	0.1938113	0.31139854	2.1557166	21	—	—
88854 2001 SD_{235}	15.5	X	267.94507	181.36356	21.77086	6.57049	0.2011037	0.26174973	2.4203521	21	—	—
88855 2001 SD_{236}	15.2	X	44.13516	275.52646	149.79206	9.13112	0.0601574	0.21185103	2.7868633	21	—	—
88856 2001 SE_{237}	15.8	X	194.66097	258.90356	152.43756	6.94460	0.1327863	0.28022009	2.3127918	21	5 13.9	19.4
88857 2001 SK_{237}	16.1	X	139.10946	86.42127	88.76619	5.12527	0.0469264	0.28992354	2.2608950	21	8 26.8	18.9
88858 2001 SN_{240}	15.3	X	165.31732	263.16443	106.68913	6.08269	0.1221075	0.22073354	2.7115888	21	2 25.5	19.4
88859 2001 SF_{245}	15.7	X	336.10109	107.65743	150.53600	3.78564	0.0129476	0.22954839	2.6417185	21	4 29.6	19.1
88860 2001 SO_{247}	15.2	X	164.70962	43.81591	60.34159	4.60967	0.0787930	0.18243667	3.0788932	21	6 19.9	19.8
88861 2001 SR_{247}	15.5	X	126.61978	303.38460	133.79775	3.67641	0.0534970	0.22414791	2.6839819	21	3 29.8	19.1
88862 2001 SF_{249}	15.1	X	342.92155	347.54197	48.37512	2.67901	0.0521922	0.19851916	2.9102777	21	11 7.1	18.8
88863 2001 SP_{249}	16.1	X	10.47218	200.35097	117.42960	1.36651	0.1946785	0.24436057	2.5338562	21	9 26.7	18.3
88864 2001 SY_{250}	15.3	X	262.82337	216.08258	129.67969	2.79511	0.1544982	0.18261214	3.0769206	21	5 2.9	20.0
88865 2001 ST_{251}	14.5	X	167.93700	73.08967	27.83687	12.14990	0.1115472	0.18142306	3.0903504	21	6 19.6	19.5
88866 2001 SW_{251}	15.6	X	282.85102	91.47156	110.91913	0.63135	0.0448111	0.21313886	2.7756261	21	—	—
88867 2001 SN_{252}	16.0	X	109.62061	264.67754	112.26139	1.64963	0.0828885	0.21347170	2.7727402	21	—	—
88868 2001 SF_{253}	15.4	X	325.85549	93.27042	116.16420	3.04539	0.1574102	0.27005553	2.3704675	21	1 9.9	18.3
88869 2001 ST_{256}	15.5	X	234.81894	78.40537	143.10071	1.89939	0.1382158	0.25940450	2.4349182	21	—	—
88870 2001 SF_{260}	14.9	X	161.32492	106.70185	5.19061	3.51633	0.1194882	0.18378162	3.0638535	21	6 27.9	19.7
88871 2001 SG_{260}	15.3	X	323.47603	218.57192	184.16065	1.89555	0.0533016	0.19827800	2.9126370	21	10 19.3	19.0
88872 2001 SV_{260}	15.2	X	123.97400	17.05418	354.02088	4.81718	0.0744624	0.21544601	2.7557750	21	1 5.8	19.1
88873 2001 SY_{260}	15.3	X	250.19645	304.33146	52.06742	4.32439	0.1506192	0.23144861	2.6272395	21	4 29.3	19.2
88874 Wongshingsheuk	14.9	X	305.60785	329.94469	107.11637	3.23831	0.0718458	0.19895652	2.9060111	21	11 6.5	18.5
88875 Posky	16.2	X	330.64215	339.48365	4.69317	2.72052	0.1280669	0.24084007	2.5584890	21	8 11.2	18.8
88876 2001 SD_{265}	15.3	X	340.47893	238.97346	17.08476	5.87202	0.1046619	0.22996008	2.6385647	21	4 20.8	18.3
88877 2001 SJ_{265}	15.4	X	214.00833	221.98106	346.15979	1.89510	0.1432057	0.25445477	2.4663932	21	12 22.2	18.7
88878 Bowenyueli	15.2	X	229.08052	290.34592	21.98668	5.31863	0.0771409	0.22177309	2.7031086	21	2 19.1	19.2
88879 Sungjaoyiu	15.8	X	347.96081	133.77752	185.47008	7.14364	0.1596716	0.23919193	2.5702283	21	8 3.2	18.4
88880 2001 SF_{270}	13.9	X	160.84109	328.27077	73.11529	13.60932	0.1824625	0.22442435	2.6817774	21	4 9.3	18.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
88881 2001 SW_{278}	15.7	X	243.82569	184.97214	230.09904	3.37814	0.2301369	0.28570291	2.2831070	21	6 28.6	19.1
88882 2001 ST_{279}	15.3	X	252.66976	325.78676	25.59974	2.72338	0.1137843	0.23047853	2.6346063	21	4 28.5	19.0
88883 2001 SY_{280}	15.0	X	271.01464	311.65227	29.36925	2.25378	0.1094616	0.18258091	3.0772714	21	5 10.3	19.4
88884 2001 SX_{282}	14.7	X	266.38914	139.14953	302.43696	8.86128	0.1703851	0.23845391	2.5755289	21	9 2.5	18.3
88885 2001 SD_{283}	14.4	X	165.45629	303.51092	25.73025	14.34042	0.2584237	0.26197250	2.4189798	21	1 13.6	18.6
88886 2001 SA_{286}	14.9	X	273.96265	288.74444	61.39479	16.92149	0.3546622	0.23574630	2.5952117	21	4 27.9	19.3
88887 2001 SD_{288}	14.7	X	145.65337	310.01581	145.09945	17.62452	0.2018219	0.17887983	3.1195729	21	5 31.9	20.1
88888 2001 SE_{288}	15.2	X	124.78996	341.20134	61.61698	14.86072	0.1511982	0.22079373	2.7110960	21	3 4.1	19.4
88889 2001 SR_{291}	15.0	X	216.90516	225.50185	154.31844	12.01841	0.0258862	0.22804934	2.6532826	21	5 5.3	18.9
88890 2001 SJ_{292}	15.7	X	219.47537	205.41115	282.82483	3.67603	0.0192597	0.24758918	2.5117800	21	9 28.6	19.1
88891 2001 SX_{298}	15.5	X	129.71371	292.19534	193.31463	10.90791	0.1593441	0.18313459	3.0710658	21	6 16.1	20.5
88892 2001 SP_{305}	15.5	X	72.30667	335.94881	351.23488	1.49603	0.0659464	0.20384900	2.8593259	21	12 11.1	19.6
88893 2001 SE_{306}	14.7	X	85.18569	150.68771	2.12544	6.80373	0.2098275	0.17823118	3.1271371	21	6 7.1	19.2
88894 2001 SX_{313}	15.1	X	357.21194	52.34004	64.69941	12.68162	0.1054393	0.21187817	2.7866253	21	—	—
88895 2001 SC_{322}	15.8	X	343.80521	226.98369	327.81985	11.96271	0.1085749	0.27323528	2.3520409	21	1 24.8	18.6
88896 2001 SB_{342}	15.5	X	100.24321	312.38247	226.83418	10.22270	0.1083611	0.23794978	2.5791653	21	7 13.9	19.3
88897 2001 SM_{342}	15.8	X	220.63171	330.23938	317.08170	6.52249	0.1096999	0.26772870	2.3841821	21	1 1.2	19.3
88898 2001 SN_{343}	14.7	X	189.68134	340.70557	109.72994	14.59879	0.0490427	0.23608796	2.5927073	21	6 30.2	18.3
88899 2001 SB_{346}	14.7	X	70.83691	257.21397	197.41218	32.39248	0.0667157	0.21597867	2.7512421	21	2 1.8	19.0
88900 2001 SC_{346}	14.6	X	30.48137	312.29129	127.45436	8.82398	0.2038999	0.21242756	2.7818186	21	—	—
88901 2001 SA_{347}	15.3	X	20.88656	41.40681	61.27951	8.47597	0.1158706	0.21413986	2.7669695	21	—	—
88902 2001 SF_{349}	15.7	X	212.01647	352.62198	288.42715	4.55800	0.0110973	0.21498476	2.7597152	21	—	—
88903 2001 TL	16.0	X	81.85387	59.76967	180.87169	1.79125	0.0733225	0.24330187	2.5412014	21	9 9.4	19.4
88904 2001 TF_1	16.2	X	75.40473	32.72042	277.03220	2.60038	0.1560666	0.30229327	2.1987899	21	12 21.0	19.3
88905 2001 TN_1	15.9	X	357.79933	77.20567	109.99886	6.82165	0.0448210	0.27418940	2.3465813	21	2 12.2	18.6
88906 Moutier	15.3	X	83.44566	16.22035	296.87826	8.69463	0.1817673	0.25477523	2.4643246	21	12 27.7	19.1
88907 2001 TY_2	16.6	X	50.44237	52.24894	220.30040	3.41698	0.2212512	0.29546781	2.2325230	21	10 9.9	19.2
88908 2001 TZ_4	15.9	X	265.46881	225.68798	48.18622	6.99476	0.2075536	0.27708694	2.3301936	21	1 23.0	19.7
88909 2001 TG_7	15.7	X	121.12950	190.44709	213.72876	0.90300	0.1008610	0.21870544	2.7283264	21	2 14.5	19.5
88910 2001 TZ_7	15.4	X	126.96231	0.63473	62.83689	8.82646	0.0233766	0.27059435	2.3673196	21	3 4.3	18.5
88911 2001 TN_8	14.9	X	199.64669	325.87927	314.80001	5.34006	0.1085757	0.26112659	2.4242011	21	—	—
88912 2001 TS_8	15.2	X	293.24969	104.53885	286.23838	7.22267	0.1231627	0.28774280	2.2723039	21	8 14.2	17.5
88913 2001 TG_9	15.3	X	307.99735	43.14211	340.77600	3.47680	0.1299233	0.28859203	2.2678439	21	9 1.6	17.4
88914 2001 TQ_9	15.6	X	44.71201	277.37164	206.95333	4.26329	0.1232239	0.26884317	2.3775886	21	1 25.3	18.0
88915 2001 TG_{10}	15.4	X	51.38432	113.25426	227.70218	1.67494	0.0390369	0.20152687	2.8812487	21	11 28.8	19.4
88916 2001 TS_{10}	15.0	X	59.79191	14.70998	209.75997	14.04699	0.1320281	0.23599625	2.5933789	21	7 22.9	18.6
88917 2001 TZ_{10}	14.6	X	113.17441	100.95025	26.61847	11.24212	0.0948171	0.17774317	3.1328584	21	5 22.3	19.3
88918 2001 TN_{11}	15.9	X	173.52650	62.84945	11.79089	3.99845	0.0774904	0.27891570	2.3199969	21	5 17.7	19.0
88919 2001 TC_{12}	15.5	X	30.25864	262.06863	248.50611	1.30219	0.1447646	0.26911134	2.3760088	21	2 5.7	17.3
88920 2001 TO_{12}	14.9	X	350.51218	171.41529	225.42128	17.01236	0.1215329	0.19779772	2.9173500	21	11 23.1	18.3
88921 2001 TR_{12}	16.2	X	329.58337	273.63140	80.02655	4.50936	0.1973524	0.28982200	2.2614230	21	8 24.8	17.6
88922 2001 TK_{14}	14.4	X	144.44773	180.73220	260.71658	12.62803	0.0700826	0.17886072	3.1197951	21	4 27.4	19.1
88923 2001 TR_{14}	15.6	X	353.56695	235.44006	263.74458	5.20879	0.0670279	0.26385240	2.4074763	21	—	—
88924 2001 TZ_{17}	15.1	X	2.23905	183.32911	216.85806	0.88995	0.1189017	0.19957558	2.8999986	21	12 16.1	18.5
88925 2001 TC_{18}	15.6	X	355.67709	283.15895	48.62531	3.40960	0.1701513	0.24144453	2.5542171	21	9 14.3	17.8
88926 2001 TA_{20}	15.3	X	100.25285	158.45149	288.41704	8.17703	0.1393762	0.26906344	2.3762908	21	3 8.1	18.2
88927 2001 TQ_{20}	14.9	X	18.70008	38.34916	270.39426	10.19703	0.1689422	0.24178228	2.5518378	21	9 17.9	17.8
88928 2001 TE_{21}	15.0	X	286.77021	289.67096	355.66781	13.32511	0.2137343	0.22675522	2.6633680	21	3 4.3	19.0
88929 2001 TR_{22}	15.7	X	165.23875	65.96897	258.33265	1.98994	0.2207528	0.26692231	2.3889816	21	—	—
88930 2001 TR_{23}	15.3	X	261.47247	344.83445	207.50889	7.66754	0.0842313	0.20891840	2.8128825	21	—	—
88931 2001 TZ_{25}	15.8	X	29.41876	50.41051	270.02954	3.54022	0.0976321	0.29634922	2.2280941	21	10 26.5	18.1
88932 2001 TG_{31}	15.7	X	194.75712	354.03531	336.82919	6.20015	0.1167313	0.26869582	2.3784578	21	1 30.0	19.1
88933 2001 TB_{32}	14.4	X	305.14300	263.62962	11.08561	11.30635	0.1732059	0.22591837	2.6699411	21	3 17.5	17.9
88934 2001 TE_{32}	14.9	X	262.11159	192.26779	261.87355	10.04657	0.0238479	0.19241300	2.9715277	21	9 29.5	19.3
88935 2001 TF_{32}	15.0	X	114.98979	31.89344	334.16122	6.50972	0.1385189	0.16176254	3.3359337	21	1 9.5	19.8
88936 2001 TN_{32}	16.1	X	336.21643	328.13809	315.85221	6.29713	0.1457138	0.28172552	2.3045453	21	5 11.9	18.4
88937 2001 TQ_{33}	16.1	X	295.34562	342.70163	2.62616	7.35461	0.1772760	0.28494752	2.2871402	21	5 30.4	18.9
88938 2001 TR_{33}	16.8	X	63.54953	62.74917	281.16396	5.59656	0.2458476	0.30359029	2.1925229	21	—	—
88939 2001 TX_{33}	14.3	X	284.36101	63.35218	259.90019	11.35469	0.0414616	0.22813242	2.6526383	21	5 9.6	17.9
88940 2001 TA_{34}	14.7	X	227.79274	355.88480	29.68410	14.58696	0.0955256	0.17872484	3.1213761	21	5 16.7	19.5
88941 2001 TO_{34}	15.1	X	246.91795	11.65423	344.51591	3.01291	0.1268230	0.22836625	2.6508273	21	4 26.4	19.0
88942 2001 TK_{35}	14.9	X	223.85223	83.64205	257.37700	10.02740	0.2087430	0.22410403	2.6843323	21	3 9.2	19.6
88943 2001 TR_{35}	15.8	X	9.36802	9.42225	282.40783	6.83163	0.1895765	0.28710066	2.2756908	21	8 13.5	17.5
88944 2001 TF_{36}	16.1	X	289.04171	321.36290	357.84538	7.25575	0.1406850	0.27918132	2.3185252	21	4 19.5	19.1
88945 2001 TW_{36}	14.7	X	333.82925	162.90210	35.45096	12.86893	0.0776318	0.21446414	2.7641796	21	2 5.3	18.6
88946 2001 TD_{37}	15.8	X	184.41160	17.61517	13.33171	7.03526	0.1106019	0.27273647	2.3549078	21	4 4.0	19.3
88947 2001 TF_{37}	15.5	X	184.05955	21.69168	14.23989	6.81218	0.1369540	0.27342837	2.3509334	21	4 10.7	19.0
88948 2001 TU_{37}	15.5	X	305.09697	317.78725	8.16295	6.54396	0.1367970	0.28130389	2.3068475	21	5 23.9	18.2
88949 2001 TH_{38}	15.4	X	170.61907	45.92209	346.83619	6.53653	0.1179090	0.27077385	2.3662733	21	3 22.2	18.8
88950 2001 TL_{38}	15.0	X	212.53759	50.16045	313.65201	5.81960	0.1591569	0.27355544	2.3502054	21	3 25.9	18.9
88951 2001 TM_{38}	14.9	X	274.04885	203.02859	267.36835	13.66495	0.0659350	0.24382759	2.5375473	21	11 10.0	18.3
88952 2001 TW_{38}	16.2	X	171.81112	28.42629	300.64004	5.09284	0.1315913	0.26483843	2.4014970	21	1 4.9	19.7
88953 2001 TC_{39}	15.8	X	7.75703	351.66564	318.20660	5.77553	0.1978081	0.29005659	2.2602036	21	9 12.6	17.5
88954 2001 TE_{42}	15.1	X	293.30485	64.32735	299.42186	6.89310	0.3079646	0.28571143	2.2830617	21	6 2.6	18.1
88955 2001 TW_{42}	15.0	X	222.36689	31.53442	13.16686	7.60212	0.1453136	0.27751255	2.3278106	21	5 29.4	18.5
88956 2001 TF_{43}	15.2	X	188.71622	127.02205	328.91928	8.67968	0.1929435	0.27804456	2.3248403	21	7 4.9	19.1
88957 2001 TT_{44}	15.7	X	138.22394	51.56530	340.22720	3.69064	0.1653734	0.26604731	2.3942168	21	2 20.7	18.9
88958 2001 TV_{44}	15.6	X	318.54784	16.59521	352.67265	6.58152	0.1324454	0.28676785	2.2774512	21	8 30.9	17.5
88959 2001 TZ_{44}	17.4	X	215.27917	114.94930	38.96426	53.82619	0.5638517	0.43561101	1.7234690	21	10 21.9	21.0
88960 2001 TN_{45}	14.8	X	83.81337	109.04243	278.78234	3.27116	0.0783881	0.21027707	2.8007528	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
88961 Valpertile	15.2	X	141.89006	262.59466	140.75718	7.75128	0.0971772	0.22155938	2.7048465	21	3 10.9	19.0
88962 2001 TR_{50}	16.7	X	70.85033	109.95558	195.24656	1.70514	0.0948109	0.30110647	2.2045637	21	12 3.3	19.3
88963 2001 TX_{53}	15.9	X	354.63241	220.99174	119.77268	4.25278	0.1507702	0.24385144	2.5373819	21	9 25.6	18.2
88964 2001 TX_{54}	15.1	X	317.00026	282.54360	223.11066	5.52858	0.0155096	0.21253056	2.7809197	21	—	—
88965 2001 TA_{55}	15.7	X	325.94175	282.85076	244.92273	3.75894	0.1117318	0.26587352	2.3952600	21	—	—
88966 2001 TC_{56}	15.8	X	307.52286	185.04714	116.69548	4.54926	0.0368752	0.23184920	2.6242124	21	5 15.7	19.3
88967 2001 TG_{56}	15.0	X	183.96612	351.58563	79.13850	16.11616	0.0892376	0.23292966	2.6160911	21	5 29.3	18.9
88968 2001 TN_{57}	16.5	X	22.18387	94.60728	206.76460	4.06882	0.1235518	0.29374285	2.2412545	21	9 19.3	18.6
88969 2001 TU_{57}	14.1	X	126.98310	137.60455	15.45696	14.56664	0.1737955	0.18295969	3.0730227	21	7 22.9	19.2
88970 2001 TQ_{58}	15.4	X	39.02768	157.76018	209.28042	6.13947	0.0771307	0.20352365	2.8623723	21	12 21.0	19.4
88971 2001 TS_{58}	15.2	X	286.97942	327.32407	349.05144	2.52736	0.0791762	0.23177597	2.6247651	21	4 28.3	18.6
88972 2001 TT_{58}	15.1	X	313.50810	175.98470	6.64301	4.49915	0.0588539	0.21521697	2.7577297	21	—	—
88973 2001 TA_{59}	15.6	X	245.90046	244.95073	9.67223	3.07414	0.0491492	0.21668475	2.7452622	21	—	—
88974 2001 TD_{59}	16.5	X	122.26475	36.09436	273.50654	0.57440	0.1865042	0.25933203	2.4353718	21	—	—
88975 2001 TH_{59}	15.9	X	274.65841	85.25055	228.34051	1.44663	0.0889893	0.22972955	2.6403295	21	4 8.2	19.4
88976 2001 TN_{60}	15.0	X	144.81044	332.95477	44.44216	2.97559	0.0839742	0.21893238	2.7264406	21	2 8.5	18.8
88977 2001 TL_{62}	16.6	X	78.33466	266.39301	44.76594	1.81944	0.2084582	0.30323335	2.1942431	21	12 30.3	20.0
88978 2001 TR_{62}	15.1	X	230.29009	160.05167	191.96294	2.44920	0.0927862	0.22748164	2.6576951	21	4 7.3	18.9
88979 2001 TG_{63}	16.2	X	158.53826	275.21651	61.63157	2.17657	0.1961896	0.26677956	2.3898337	21	1 7.2	19.5
88980 2001 TQ_{64}	15.4	X	270.38137	262.78611	82.88023	5.84776	0.1831103	0.23274313	2.6174886	21	5 4.7	19.3
88981 2001 TW_{65}	15.4	X	41.44794	188.20799	23.47358	6.94522	0.0675794	0.28023938	2.3126857	21	5 26.6	17.8
88982 2001 TA_{66}	15.1	X	296.52579	211.80585	34.95562	7.47802	0.0784431	0.27113841	2.3641518	21	2 5.6	18.3
88983 2001 TV_{67}	14.7	X	173.25028	269.37904	213.77520	10.87276	0.1292383	0.18293118	3.0733420	21	7 20.6	19.8
88984 2001 TW_{67}	15.5	X	39.79665	38.23695	51.47848	2.75426	0.1867945	0.26096484	2.4252028	21	—	—
88985 2001 TG_{68}	15.5	X	201.47394	10.48524	46.64114	7.56358	0.0945210	0.28049735	2.3112675	21	5 26.5	18.6
88986 2001 TW_{70}	15.3	X	262.75840	157.61775	143.50203	3.35706	0.1141094	0.22554238	2.6729076	21	3 8.3	19.1
88987 2001 TF_{71}	16.2	X	319.14852	240.11636	114.98522	3.26346	0.1091535	0.29000322	2.2604809	21	8 10.9	18.2
88988 2001 TO_{71}	15.1	X	148.16316	90.39818	153.25842	2.47833	0.0180366	0.20024180	2.8935627	21	11 23.1	19.1
88989 2001 TQ_{71}	15.0	X	166.26760	244.99177	203.27691	9.98373	0.0619531	0.18001993	3.1063877	21	6 2.0	19.7
88990 2001 TT_{71}	15.7	X	356.55597	310.47410	182.20696	6.18618	0.0516986	0.26207204	2.4183673	21	—	—
88991 2001 TV_{71}	15.3	X	350.07102	319.61202	211.08871	8.72433	0.0836919	0.21677606	2.7444912	21	1 14.7	19.0
88992 2001 TJ_{72}	16.4	X	195.75940	169.65998	152.12959	1.75920	0.1987478	0.27022376	2.3694835	21	1 22.1	20.2
88993 2001 TF_{74}	14.6	X	151.03822	222.59320	222.63117	8.38589	0.0562240	0.17684195	3.1434931	21	5 11.4	19.2
88994 2001 TX_{74}	16.2	X	62.13162	214.26183	122.72703	2.21099	0.1842275	0.25277412	2.4773135	21	—	—
88995 2001 TR_{75}	15.0	X	193.53960	36.57312	35.95729	10.76727	0.0756207	0.18130171	3.0917292	21	6 10.1	19.8
88996 2001 TY_{75}	14.8	X	214.02798	312.42846	66.03422	6.12659	0.1579416	0.22791011	2.6543630	21	4 22.9	19.1
88997 2001 TG_{76}	15.4	X	177.01228	315.20294	61.22521	4.21236	0.0702298	0.22182558	2.7026821	21	3 14.4	19.4
88998 2001 TV_{76}	15.3	X	316.09671	222.48363	54.64034	3.18987	0.0614549	0.22757449	2.6569721	21	4 20.3	18.6
88999 2001 TH_{77}	16.2	X	353.45629	159.04136	209.57400	3.23829	0.1305329	0.29591468	2.2302748	21	11 12.7	17.9
89000 2001 TD_{78}	15.1	X	97.45123	323.84651	76.05427	4.56077	0.1021033	0.21326733	2.7745113	21	1 11.6	18.6
89001 2001 TH_{78}	14.9	X	35.07216	118.54493	209.40616	7.46567	0.0809570	0.19549359	2.9402281	21	10 27.3	18.7
89002 2001 TK_{78}	14.6	X	203.31415	187.76558	222.14917	19.87746	0.0450633	0.17881880	3.1202826	21	5 26.2	19.3
89003 2001 TR_{78}	15.2	X	279.76981	240.93573	93.37056	2.89636	0.0961198	0.23065054	2.6332963	21	5 12.1	18.7
89004 2001 TE_{79}	14.8	X	9.44898	287.57477	67.11769	15.46151	0.1714501	0.24540243	2.5266794	21	11 16.6	17.4
89005 2001 TH_{79}	16.2	X	246.51204	262.75698	128.40816	4.70683	0.2632218	0.28301735	2.2975272	21	5 28.7	19.8
89006 2001 TT_{79}	16.1	X	140.59597	282.02411	124.71607	3.32919	0.1607649	0.27041771	2.3683504	21	3 14.6	19.4
89007 2001 TY_{79}	15.0	X	165.18249	154.94563	207.98124	5.33468	0.0448760	0.21776047	2.7362138	21	2 6.8	18.9
89008 2001 TA_{80}	16.3	X	333.28858	173.65672	159.53207	3.33055	0.2508489	0.29042559	2.2582887	21	7 16.2	17.3
89009 2001 TC_{80}	15.0	X	197.46801	196.85534	193.44733	5.96506	0.0985305	0.22602807	2.6690772	21	4 21.6	19.0
89010 2001 TT_{80}	15.2	X	176.06324	215.44503	138.09967	6.23579	0.1296447	0.26656930	2.3910902	21	2 8.4	18.6
89011 2001 TY_{80}	14.8	X	295.92027	309.91311	219.33935	12.34973	0.1254730	0.21247658	2.7813907	21	—	—
89012 2001 TU_{82}	15.4	X	199.92563	168.70707	257.49813	3.77936	0.1447240	0.18329229	3.0693041	21	6 8.5	20.3
89013 2001 TD_{83}	16.6	X	70.07491	337.22103	289.80622	5.06142	0.0443472	0.29492213	2.2352759	21	9 28.3	19.3
89014 2001 TE_{83}	15.9	X	78.86469	191.91772	282.13220	5.17926	0.0313399	0.27376947	2.3489803	21	2 27.3	18.7
89015 2001 TW_{85}	15.0	X	228.76522	204.99934	217.68704	10.15238	0.1197714	0.18668154	3.0320414	21	7 2.6	19.8
89016 2001 TW_{87}	16.3	X	108.30426	140.93065	287.76928	4.51029	0.0592572	0.27097046	2.3651286	21	2 12.7	19.2
89017 2001 TT_{88}	17.0	X	99.55640	326.18760	355.16251	4.21511	0.1186951	0.30710715	2.1757522	21	—	—
89018 2001 TQ_{89}	16.0	X	32.73067	233.61765	350.63277	6.28750	0.0801726	0.28316170	2.2967464	21	5 31.9	18.4
89019 2001 TC_{90}	15.0	X	292.12264	268.78049	294.12799	6.70052	0.1170431	0.21564385	2.7540892	21	—	—
89020 2001 TK_{91}	16.1	X	43.05835	316.84999	333.45705	3.11979	0.1328777	0.24518365	2.5281822	21	10 2.4	19.2
89021 2001 TC_{94}	14.9	X	2.91295	282.07425	265.36363	2.38261	0.1510576	0.22249731	2.6972396	21	2 18.3	17.7
89022 2001 TX_{94}	15.5	X	195.89324	341.54602	298.51405	3.70266	0.0307067	0.21282543	2.7783506	21	—	—
89023 2001 TB_{98}	15.9	X	6.59766	36.94596	303.29751	1.47752	0.1634762	0.24557225	2.5255144	21	10 17.3	18.3
89024 2001 TP_{99}	15.0	X	247.26614	309.95975	259.18766	6.31565	0.1746038	0.21047305	2.7990139	21	—	—
89025 2001 TD_{101}	16.0	X	131.58262	65.40387	266.97654	3.71956	0.2117982	0.31097820	2.1576587	21	—	—
89026 2001 TZ_{101}	15.2	X	335.51003	285.22310	318.60127	3.39875	0.0701702	0.22755626	2.6571140	21	3 30.9	18.5
89027 2001 TN_{102}	13.9	X	107.22871	218.90294	250.35770	20.75973	0.0749470	0.17392415	3.1785530	21	4 18.5	18.7
89028 2001 TB_{105}	15.2	X	214.22247	97.32173	252.00635	1.01257	0.0951696	0.22379678	2.6867886	21	3 17.7	19.1
89029 2001 TK_{105}	16.4	X	107.31029	31.24903	296.75895	1.38910	0.2288361	0.30803595	2.1713764	21	—	—
89030 2001 TQ_{105}	15.4	X	243.33346	352.73273	32.57072	7.64345	0.1237268	0.28130970	2.3068158	21	5 28.1	18.6
89031 2001 TF_{106}	15.0	X	175.76420	208.94448	247.74230	4.84506	0.1638450	0.27837009	2.3230274	21	6 22.5	18.6
89032 2001 TH_{106}	15.1	X	199.01012	181.37214	237.57569	3.87755	0.1128535	0.27776590	2.3263949	21	5 26.9	18.2
89033 2001 TO_{106}	15.3	X	78.81349	62.95445	351.67693	2.35019	0.1693606	0.26051755	2.4279779	21	—	—
89034 2001 TZ_{106}	15.1	X	110.01276	125.71851	258.06648	6.64034	0.1288594	0.26049950	2.4280900	21	—	—
89035 2001 TM_{107}	14.7	X	244.45967	192.15886	266.69331	3.27905	0.2085650	0.23562744	2.5960844	21	8 26.3	18.5
89036 2001 TV_{107}	15.0	X	328.72372	96.23182	269.72018	3.96470	0.2570442	0.23958581	2.5674105	21	8 25.3	16.8
89037 2001 TZ_{107}	15.2	X	252.39302	323.82388	112.38017	4.65034	0.1285305	0.28495272	2.2871124	21	8 21.9	18.1
89038 2001 TL_{109}	14.6	X	294.38775	146.24111	237.30602	10.61563	0.1100261	0.18960181	3.0008277	21	7 31.5	18.8
89039 2001 TN_{109}	15.1	X	195.89519	7.32473	345.80529	5.43712	0.0496262	0.22227292	2.6990547	21	3 3.4	19.0
89040 2001 TS_{109}	15.7	X	22.51721	49.41783	240.10660	4.30985	0.1217248	0.24067950	2.5596268	21	8 24.9	18.5

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
89041 2001 TU_{111}	14.6	X	129.25814	179.20331	266.39275	5.01187	0.0577493	0.17411499	3.1762300	21	4 14.9	19.3
89042 2001 TG_{112}	15.8	X	176.62142	97.59041	344.21791	3.99748	0.2114703	0.27896205	2.3197399	21	6 3.9	19.7
89043 2001 TJ_{112}	15.9	X	352.00238	99.39928	255.11509	5.37837	0.1129009	0.29403589	2.2397652	21	10 13.2	17.9
89044 2001 TG_{113}	15.2	X	252.68768	115.33089	252.68839	7.41784	0.0479489	0.23165260	2.6256969	21	5 28.6	18.6
89045 2001 TP_{114}	15.5	X	354.88599	105.66443	251.44613	3.57869	0.2067615	0.24520820	2.5280135	21	10 23.2	17.5
89046 2001 TK_{115}	15.9	X	238.06121	48.91203	356.98798	2.34542	0.1135770	0.28362009	2.2942710	21	6 22.1	19.0
89047 2001 TT_{115}	14.6	X	205.43570	194.03491	249.81895	8.78644	0.0806752	0.18236594	3.0796892	21	7 7.3	19.3
89048 2001 TF_{116}	14.7	X	226.18100	46.79650	253.74095	12.12657	0.1361795	0.21738908	2.7393292	21	1 26.2	19.2
89049 2001 TA_{117}	15.2	X	107.19033	108.69268	280.25074	5.45536	0.1259906	0.26032148	2.4291969	21	1 2.1	17.9
89050 2001 TM_{117}	13.6	X	63.34181	278.44998	71.80859	30.86275	0.3365848	0.20124954	2.8838951	21	—	—
89051 2001 TF_{118}	15.0	X	49.42512	9.65421	254.98725	17.29882	0.1579116	0.24323486	2.5416681	21	8 31.9	18.6
89052 2001 TR_{118}	14.5	X	302.09775	54.53090	291.34712	12.08253	0.1686275	0.23832742	2.5764400	21	6 16.5	17.6
89053 2001 TQ_{122}	14.9	X	235.92847	86.97584	258.07600	11.34713	0.1950000	0.22712514	2.6604753	21	3 24.1	19.6
89054 2001 TR_{122}	16.6	X	336.24457	76.89751	305.30603	5.21285	0.1775550	0.29483555	2.2357135	21	10 29.0	18.2
89055 2001 TT_{123}	16.2	X	79.01320	307.29492	296.18753	7.35796	0.0777099	0.29313918	2.2443305	21	9 11.1	19.1
89056 2001 TK_{125}	16.0	X	66.10898	350.69644	312.66959	6.76129	0.1205318	0.29973371	2.2112898	21	11 26.4	18.9
89057 2001 TK_{127}	15.4	X	94.66654	10.87073	84.48430	8.01616	0.0715970	0.26854694	2.3793367	21	3 10.3	18.3
89058 2001 TP_{130}	15.0	X	27.92544	13.93233	140.39904	9.54424	0.0776639	0.22254451	2.6968583	21	2 21.6	18.2
89059 2001 TR_{130}	14.9	X	59.71561	348.12006	140.86377	15.88371	0.0746461	0.22610951	2.6684362	21	3 10.1	18.2
89060 2001 TG_{133}	15.2	X	333.14415	112.56205	136.54898	9.89486	0.0182708	0.22687018	2.6624683	21	4 15.9	18.9
89061 2001 TU_{134}	15.1	X	329.06616	257.82944	285.91871	8.33755	0.1142615	0.21923452	2.7239351	21	—	—
89062 2001 TW_{134}	14.8	X	185.20010	220.59999	243.07742	11.45568	0.1446568	0.18591759	3.0403417	21	7 8.8	19.8
89063 2001 TV_{146}	14.9	X	200.80462	342.94997	44.90972	12.48961	0.1855680	0.22864557	2.6486680	21	4 22.3	19.3
89064 2001 TX_{146}	15.9	X	212.72306	142.86901	126.33722	7.14235	0.1232178	0.26561742	2.3967994	21	—	—
89065 2001 TK_{147}	16.8	X	342.42554	198.19813	101.54564	4.94232	0.0966302	0.28748738	2.2736496	21	6 27.6	18.7
89066 2001 TZ_{147}	15.6	X	341.16640	56.05571	123.35842	5.63253	0.0540779	0.21853412	2.7297521	21	1 18.9	19.0
89067 2001 TE_{148}	15.7	X	74.56099	351.28311	88.63551	6.12290	0.0223982	0.21772321	2.7365259	21	1 20.9	19.3
89068 2001 TQ_{148}	15.6	X	22.23853	190.26836	94.31722	7.46141	0.0697928	0.24011794	2.5636160	21	8 16.2	18.6
89069 2001 TG_{149}	15.3	X	203.58643	248.55668	88.76090	7.12691	0.0249259	0.22176222	2.7031969	21	2 22.9	19.1
89070 2001 TV_{149}	15.8	X	316.88202	156.13189	62.05488	7.20015	0.0340687	0.27054955	2.3675810	21	1 30.9	18.8
89071 2001 TF_{150}	15.8	X	325.42846	26.53393	151.78084	5.91512	0.0656332	0.26539048	2.3981655	21	—	—
89072 2001 TS_{151}	15.2	X	0.12441	302.60826	57.20420	12.99222	0.0686712	0.19644160	2.9307610	21	10 21.2	19.0
89073 2001 TC_{153}	15.5	X	324.56219	304.49412	78.93721	7.03135	0.1928729	0.24419016	2.5350349	21	9 27.6	17.8
89074 2001 TD_{154}	15.7	X	24.88531	107.44869	146.80458	11.35077	0.0987806	0.23901061	2.5715280	21	7 6.9	18.7
89075 2001 TG_{158}	16.7	X	240.27610	257.70808	102.21208	5.38969	0.1442070	0.27980343	2.3150872	21	4 22.6	20.1
89076 2001 TH_{158}	15.5	X	120.90163	248.60414	121.18485	6.02583	0.0826855	0.21343496	2.7730584	21	1 1.1	19.2
89077 2001 TU_{159}	15.1	X	1.80178	281.81662	150.99028	15.26159	0.1287743	0.20490680	2.8494769	21	—	—
89078 2001 TC_{162}	16.9	X	48.42679	356.14974	277.46627	1.65360	0.1319597	0.29442442	2.2377943	21	9 22.9	19.4
89079 2001 TQ_{165}	14.8	X	48.02979	164.09109	345.50409	5.81476	0.0953085	0.17078499	3.2173841	21	3 26.4	19.0
89080 2001 TA_{166}	15.5	X	44.91557	319.15981	274.95011	4.79792	0.1252136	0.28406271	2.2918872	21	7 16.4	17.6
89081 2001 TE_{166}	15.2	X	182.03609	27.93937	292.50441	5.37291	0.0879711	0.26474167	2.4020821	21	—	—
89082 2001 TB_{167}	15.5	X	226.84023	356.12816	260.13032	12.60391	0.0068567	0.26149652	2.4219143	21	—	—
89083 2001 TA_{170}	16.2	X	309.37800	351.73731	327.67451	7.50516	0.1766375	0.28341071	2.2954009	21	5 12.5	18.9
89084 2001 TQ_{171}	15.7	X	336.15942	185.04024	178.24328	14.98646	0.0939754	0.24274227	2.5451055	21	9 19.9	18.5
89085 2001 TU_{171}	16.0	X	299.46158	19.03898	285.01833	8.80423	0.0852966	0.28204946	2.3027805	21	4 19.2	19.0
89086 2001 TG_{172}	15.6	X	19.91120	255.18246	203.26703	3.85656	0.0312477	0.21221256	2.7836972	21	—	—
89087 2001 TS_{174}	15.0	X	157.88751	46.02449	56.57810	10.40635	0.0603499	0.23537941	2.5979078	21	6 7.2	18.6
89088 2001 TY_{181}	15.6	X	185.55271	76.54610	272.16248	2.85948	0.0357883	0.22026301	2.7154491	21	2 12.6	19.5
89089 2001 TF_{182}	15.8	X	314.63243	209.47181	283.10541	5.24343	0.0727808	0.25651006	2.4532009	21	—	—
89090 2001 TK_{182}	16.4	X	341.75848	329.78419	321.43841	3.99616	0.1405652	0.28558158	2.2837536	21	6 7.1	18.3
89091 2001 TS_{187}	15.3	X	189.31678	298.20157	319.52067	4.92872	0.1257914	0.25752745	2.4467356	21	—	—
89092 2001 TY_{188}	16.8	X	94.03597	359.21327	339.13523	2.96772	0.1819251	0.30708933	2.1758364	21	—	—
89093 2001 TA_{189}	15.4	X	1.55929	309.85485	300.90894	3.30521	0.1269149	0.28037262	2.3119529	21	5 13.9	17.5
89094 2001 TN_{189}	16.3	X	239.69583	3.31214	324.61946	4.17669	0.1729167	0.27562997	2.3383980	21	3 7.1	19.8
89095 2001 TU_{189}	15.6	X	236.20882	261.30193	359.51052	6.26056	0.0906369	0.26379902	2.4078010	21	—	—
89096 2001 TB_{190}	15.0	X	32.80322	243.40942	3.39890	5.02523	0.1301767	0.28375178	2.2935611	21	7 16.4	17.1
89097 2001 TS_{190}	16.2	X	251.09818	31.70714	281.27116	3.12731	0.1170969	0.27422375	2.3463854	21	3 2.2	19.6
89098 2001 TM_{192}	15.6	X	309.24657	316.06268	255.59284	6.18252	0.0641088	0.26627215	2.3928688	21	1 5.6	18.8
89099 2001 TF_{193}	15.0	X	135.18269	13.88660	29.55720	5.90997	0.1308650	0.26518237	2.3994201	21	3 2.3	18.2
89100 2001 TN_{194}	15.9	X	213.16056	329.42412	12.96560	7.03369	0.1546855	0.27189011	2.3597923	21	3 4.7	19.6
89101 2001 TF_{199}	16.4	X	250.70922	174.18702	128.76206	7.69415	0.1538801	0.27713568	2.3299204	21	2 16.7	19.8
89102 2001 TS_{199}	15.6	X	349.67263	242.79356	50.13462	9.38850	0.0304751	0.23774411	2.5806526	21	7 4.0	19.0
89103 2001 TN_{202}	15.2	X	156.30205	356.15430	57.45153	12.18032	0.1569935	0.22679763	2.6630360	21	4 15.5	19.5
89104 2001 TT_{202}	14.8	X	202.26231	352.94743	85.96138	11.34636	0.0941684	0.18454827	3.0553625	21	6 28.1	19.4
89105 2001 TZ_{205}	14.7	X	309.50952	262.76358	110.97835	15.55119	0.1324067	0.24177660	2.5518778	21	8 17.7	17.6
89106 2001 TB_{206}	16.3	X	205.04940	184.30722	127.35354	9.45063	0.2312389	0.27134405	2.3629571	21	1 18.5	20.2
89107 2001 TR_{206}	14.1	X	186.52552	347.75804	109.11715	20.11487	0.1121045	0.18195382	3.0843377	21	7 4.3	19.0
89108 2001 TE_{208}	15.8	X	292.02146	258.77187	27.55636	1.38081	0.1227945	0.17954116	3.1119076	21	3 27.4	20.0
89109 2001 TM_{210}	15.5	X	283.17548	273.12829	286.32484	8.78522	0.1491642	0.26514055	2.3996724	21	—	—
89110 2001 TW_{210}	14.5	X	243.83146	257.01108	223.76151	13.41195	0.2333769	0.19621889	2.9329782	21	9 13.9	19.2
89111 2001 TO_{211}	15.3	X	100.57467	293.27981	229.04101	13.33764	0.0401490	0.23490793	2.6013828	21	6 13.1	18.9
89112 2001 TW_{211}	15.9	X	329.06055	267.43231	104.19397	6.54640	0.2049029	0.29456381	2.2370883	21	9 28.8	17.2
89113 2001 TC_{214}	15.5	X	299.15482	158.08838	109.86290	5.69578	0.0865966	0.27340380	2.3510743	21	3 6.9	18.6
89114 2001 TJ_{218}	15.6	X	263.72949	29.54296	162.25161	6.30858	0.0596702	0.25807576	2.4432687	21	—	—
89115 2001 TQ_{220}	15.6	X	234.32302	280.35763	267.66071	3.46888	0.1042854	0.25500254	2.4628599	21	12 26.8	18.7
89116 2001 TC_{222}	16.1	X	32.97470	336.74938	337.52204	3.77806	0.1466423	0.24552819	2.5258165	21	10 22.1	19.2
89117 2001 TK_{222}	15.2	X	107.55483	175.36292	29.06141	14.11463	0.0994974	0.23705649	2.5856405	21	9 3.5	19.1
89118 2001 TT_{227}	15.6	X	97.90302	5.75520	56.44350	9.83457	0.1267696	0.21963155	2.7206514	21	2 16.1	19.3
89119 2001 TD_{231}	15.1	X	140.77320	307.41779	138.69244	12.84612	0.1152870	0.22794593	2.6540849	21	5 7.5	19.3
89120 2001 TX_{235}	15.2	X	12.71367	173.96046	89.78060	11.25463	0.0733327	0.23449726	2.6044190	21	6 28.4	18.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
89121 2001 TU_{238}	15.9	X	178.60618	212.63192	71.67282	9.23453	0.1059421	0.26447935	2.4036701	21	—	—
89122 2001 UN_{2}	15.9	X	190.41279	211.47492	145.42746	3.52657	0.0825546	0.26963024	2.3729594	21	2 24.7	19.3
89123 2001 US_{2}	16.0	X	240.10429	139.61489	214.18790	6.47332	0.1373247	0.27695966	2.3309075	21	4 11.9	19.4
89124 2001 UC_{3}	14.9	X	167.54237	55.53752	61.44280	9.87328	0.1047723	0.18353152	3.0666364	21	7 10.5	19.8
89125 2001 UK_{3}	15.3	X	346.95845	94.78540	144.82991	10.46709	0.0349011	0.22822832	2.6518953	21	4 20.5	18.8
89126 2001 UV_{3}	15.7	X	271.36971	294.86006	67.25166	2.18991	0.1908418	0.23389169	2.6089126	21	5 24.6	19.5
89127 2001 UX_{3}	15.2	X	218.35096	185.15884	58.38208	6.89602	0.0996399	0.25794901	2.4440691	21	—	—
89128 2001 UP_{7}	14.9	X	90.04955	258.99882	238.93889	11.85927	0.1062804	0.22813535	2.6526157	21	5 6.7	18.2
89129 2001 UH_{9}	15.8	X	6.95223	202.89763	99.49752	2.90837	0.0740104	0.23938106	2.5688743	21	8 15.5	18.6
89130 2001 UJ_{10}	14.5	X	120.32781	238.69400	234.10229	11.15014	0.1041580	0.17507933	3.1645561	21	5 15.8	19.2
89131 Phildevries	15.6	X	182.01302	127.45086	222.63444	7.03401	0.1253687	0.26747466	2.3856915	21	2 6.9	19.2
89132 2001 UU_{13}	15.9	X	172.55881	209.31122	132.59421	4.95607	0.1128912	0.26471080	2.4022688	21	1 19.7	19.2
89133 2001 UV_{13}	16.2	X	269.13423	293.37914	87.26057	7.64549	0.2310581	0.28463145	2.2888331	21	6 9.1	19.3
89134 2001 UW_{15}	15.6	X	137.72442	81.95734	257.81044	5.58883	0.0210169	0.21187433	2.7866589	21	—	—
89135 2001 UB_{16}	15.5	X	207.89428	191.60217	94.29495	4.24908	0.1147043	0.26298798	2.4127488	21	—	—
89136 2001 US_{16}	20.2	X	303.59452	67.15271	175.91497	1.90551	0.2528118	0.62409283	1.3561360	21	—	—
89137 2001 UD_{17}	16.3	X	112.88574	55.35101	210.32806	7.46451	0.2507615	0.30237683	2.1983848	21	12 5.4	20.0
89138 2001 UU_{19}	15.2	X	101.06017	228.17086	279.59894	0.88577	0.1242607	0.18007161	3.1057933	21	6 8.7	19.6
89139 2001 UT_{20}	16.6	X	321.59249	265.23356	42.65658	3.43252	0.1672570	0.28428519	2.2906913	21	5 20.4	18.7
89140 2001 UT_{21}	14.5	X	57.67597	253.16271	231.27745	11.58249	0.1320958	0.22314229	2.6920397	21	2 26.7	17.8
89141 2001 UC_{25}	14.3	X	231.34625	177.68198	257.59661	10.24140	0.1156827	0.18707575	3.0277805	21	7 20.6	19.0
89142 2001 UP_{26}	14.7	X	336.31039	235.09765	340.45690	10.06980	0.1682209	0.27137486	2.3627783	21	2 2.4	17.5
89143 2001 UL_{30}	16.0	X	169.77703	215.50690	112.73190	7.54309	0.1485954	0.26760141	2.3849381	21	1 2.6	19.4
89144 2001 UL_{32}	15.0	X	90.09052	158.16056	82.47950	9.32262	0.0518630	0.24292819	2.5438067	21	9 22.8	18.6
89145 2001 UH_{33}	16.0	X	273.05925	249.38314	127.45805	6.37868	0.1871680	0.28661062	2.2782840	21	6 14.9	19.1
89146 2001 UO_{33}	14.9	X	301.09937	224.03355	59.79159	14.72159	0.0659738	0.22762244	2.6565990	21	4 13.5	18.6
89147 2001 UQ_{33}	15.5	X	167.99546	207.21830	144.04041	6.18478	0.0487612	0.21753055	2.7381415	21	1 28.5	19.3
89148 2001 US_{33}	14.8	X	195.35138	266.18844	138.90220	6.92480	0.1647549	0.17834758	3.1257763	21	5 11.9	20.0
89149 2001 UD_{34}	15.7	X	172.02358	253.37498	129.29694	7.02973	0.1201293	0.27266837	2.3552999	21	3 14.1	19.1
89150 2001 UF_{34}	14.9	X	142.85871	257.56872	142.40049	7.76027	0.1246377	0.22030777	2.7150813	21	3 10.9	18.8
89151 2001 UF_{35}	16.0	X	125.88747	313.68907	113.55944	7.49300	0.1065449	0.27093946	2.3653089	21	3 19.1	19.1
89152 2001 UW_{36}	15.3	X	272.32801	256.65528	83.70371	8.50572	0.1090540	0.23142628	2.6274085	21	5 10.3	19.0
89153 2001 UF_{38}	16.5	X	119.10423	307.59094	2.39981	2.22740	0.1932987	0.25912640	2.4366601	21	—	—
89154 2001 UO_{38}	16.0	X	5.95722	31.62678	64.09745	0.60376	0.0309969	0.21021370	2.8013156	21	—	—
89155 2001 UE_{39}	15.6	X	164.67376	161.83257	203.22803	5.66068	0.0238085	0.21977055	2.7195041	21	2 6.4	19.4
89156 2001 UA_{43}	16.1	X	79.14348	225.69861	200.66569	5.91016	0.0295840	0.21576036	2.7530976	21	1 9.2	19.8
89157 2001 UW_{43}	16.2	X	56.97774	166.19331	140.22084	5.53393	0.1901325	0.29805897	2.2195653	21	12 1.0	19.2
89158 2001 UE_{44}	16.0	X	98.88330	43.05664	152.24713	2.98822	0.0801279	0.28575519	2.2828285	21	8 3.1	18.9
89159 2001 UJ_{44}	15.4	X	251.24588	102.71075	177.65506	1.82519	0.0183159	0.21902666	2.7256582	21	2 6.3	19.0
89160 2001 UD_{48}	16.6	X	119.32040	250.27398	88.20230	1.78471	0.1868873	0.31057099	2.1595443	21	—	—
89161 2001 UL_{48}	15.9	X	138.52021	193.26248	122.25325	5.83519	0.1784357	0.26019437	2.4299880	21	—	—
89162 2001 UA_{49}	15.2	X	354.44470	312.96857	80.64348	2.79600	0.1192376	0.19779732	2.9173539	21	11 25.0	18.5
89163 2001 UJ_{49}	15.0	X	309.43225	267.09162	68.42010	15.09724	0.1064012	0.23502846	2.6004934	21	6 22.1	18.2
89164 2001 UX_{49}	14.6	X	244.24318	21.48912	90.69952	11.05193	0.0679568	0.19167967	2.9791018	21	10 4.5	19.0
89165 2001 UZ_{49}	16.4	X	259.96890	190.94381	133.28607	5.38502	0.2018547	0.27784176	2.3259714	21	3 22.0	20.0
89166 2001 UE_{50}	15.1	X	48.53855	103.53576	199.05104	14.55079	0.1287649	0.24392831	2.5368488	21	10 28.4	18.3
89167 2001 UF_{50}	14.3	X	183.16825	328.59570	80.73721	14.56528	0.1008475	0.17561207	3.1581528	21	5 7.7	19.3
89168 2001 UL_{50}	16.0	X	232.59944	208.73117	148.87484	7.64717	0.1303651	0.27732323	2.3288699	21	4 12.9	19.5
89169 2001 UR_{52}	15.0	X	271.00597	93.68145	80.56261	9.07676	0.1225805	0.25519862	2.4615982	21	—	—
89170 2001 UR_{53}	15.2	X	112.24339	183.06846	187.21488	3.91565	0.0998043	0.21215404	2.7842090	21	—	—
89171 2001 UZ_{54}	15.4	X	270.19699	319.09249	225.16261	2.54592	0.0325962	0.21070324	2.7969749	21	—	—
89172 2001 UE_{55}	15.1	X	144.55602	311.10012	203.93180	12.01974	0.1146113	0.23874406	2.5734417	21	8 1.3	19.3
89173 2001 UK_{55}	14.1	X	151.44817	207.06965	215.91194	16.48211	0.2065613	0.17600088	3.1534999	21	4 25.0	19.4
89174 2001 UO_{55}	16.0	X	42.45623	348.34303	296.20843	5.66723	0.1766494	0.29587999	2.2304491	21	10 5.4	18.5
89175 2001 UM_{57}	15.4	X	36.29965	104.77202	352.96909	1.75858	0.1581243	0.16312519	3.3173302	21	1 8.6	19.1
89176 2001 UP_{59}	16.1	X	86.42519	26.36580	158.64395	0.23444	0.1255040	0.28235596	2.3011137	21	7 9.2	18.8
89177 2001 UQ_{62}	15.1	X	230.05146	220.92900	16.13140	2.55926	0.1356888	0.26094970	2.4252965	21	—	—
89178 2001 UC_{64}	15.2	X	166.06750	69.22561	260.19502	7.91235	0.0253958	0.21554627	2.7549203	21	—	—
89179 2001 UV_{64}	15.6	X	194.63929	71.14125	292.21682	4.34069	0.0998388	0.27276260	2.3547574	21	3 7.6	18.9
89180 2001 UO_{65}	14.9	X	202.12853	310.73779	39.60736	9.36034	0.1296946	0.22109273	2.7086512	21	3 11.9	19.3
89181 2001 UT_{65}	16.4	X	41.03909	355.68569	22.61788	6.41330	0.1709460	0.30270965	2.1967731	21	—	—
89182 2001 UQ_{68}	14.1	X	258.58045	345.06355	57.85722	12.09506	0.0973966	0.18412457	3.0600478	21	7 16.7	18.6
89183 2001 UD_{70}	16.3	X	262.53415	22.91766	209.26292	2.93888	0.1480170	0.26622054	2.3931780	21	—	—
89184 2001 UU_{73}	16.0	X	103.48954	302.05366	114.85183	3.15540	0.1165029	0.26706991	2.3881013	21	2 1.1	18.7
89185 2001 UY_{73}	15.3	X	91.86695	226.82912	147.57292	5.00243	0.0817038	0.21025931	2.8009105	21	—	—
89186 2001 UA_{75}	15.4	X	1.60777	330.12459	106.09864	3.20788	0.0674667	0.20472938	2.8511229	21	—	—
89187 2001 UD_{75}	16.3	X	23.38745	143.24282	174.14743	5.55415	0.2043273	0.29521669	2.2337888	21	11 2.5	18.4
89188 2001 UT_{75}	16.4	X	343.89878	145.99843	183.89407	4.52891	0.1994578	0.29066590	2.2570438	21	8 15.9	17.6
89189 2001 UU_{75}	15.9	X	178.82759	180.46779	168.38294	3.01262	0.0275438	0.26751586	2.3854466	21	1 26.8	18.8
89190 2001 UG_{76}	16.0	X	189.03150	222.42108	183.41604	6.18755	0.1228581	0.27640315	2.3340351	21	4 30.0	19.4
89191 2001 UH_{77}	15.3	X	148.02146	188.06732	186.22435	5.51492	0.1272734	0.21687963	2.7436173	21	2 10.8	19.4
89192 2001 UJ_{77}	15.4	X	356.72600	180.16298	70.78217	4.67461	0.1229243	0.27864563	2.3214957	21	5 6.9	17.3
89193 2001 UW_{77}	14.8	X	286.40980	290.57220	303.47838	7.86640	0.1848861	0.26880220	2.3778302	21	—	—
89194 2001 UZ_{77}	15.8	X	109.12337	198.35512	97.34293	6.53461	0.1317400	0.25479223	2.4642150	21	12 27.1	19.5
89195 2001 UO_{78}	16.5	X	285.53843	313.56767	96.32905	5.58073	0.1294243	0.29118506	2.2543603	21	9 4.4	18.8
89196 2001 UH_{79}	15.4	X	180.23364	58.66782	44.47253	10.60655	0.0532435	0.18336100	3.0685373	21	7 6.2	20.1
89197 2001 UN_{82}	15.3	X	313.92393	61.84708	44.48132	2.62582	0.0277554	0.20221607	2.8746983	21	12 26.9	19.1
89198 2001 UQ_{83}	15.2	X	139.20437	284.56753	64.65478	7.71678	0.1135970	0.26238952	2.4164162	21	—	—
89199 2001 UW_{83}	15.7	X	335.71338	288.36456	67.07046	1.73376	0.2047907	0.24134118	2.5549462	21	9 4.0	17.5
89200 2001 UH_{84}	15.6	X	348.48650	25.73893	269.58641	6.50902	0.1845484	0.28803255	2.2707797	21	6 26.4	16.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
89201 2001 UJ_{86}	15.9	X	247.06121	151.99047	75.06948	3.45622	0.1407973	0.26138647	2.4225941	21	—	—
89202 2001 UJ_{90}	15.1	X	103.19123	326.62701	206.96391	11.19387	0.0812511	0.18047835	3.1011253	21	7 6.6	19.7
89203 2001 UM_{93}	15.1	X	305.46202	182.68611	111.92195	10.01074	0.0709167	0.22989596	2.6390553	21	5 1.2	18.7
89204 2001 UQ_{93}	14.7	X	47.08412	295.92528	162.53396	12.53005	0.1144612	0.21314662	2.7755587	21	1 10.1	18.1
89205 2001 UY_{94}	16.0	X	224.45336	191.98241	111.61480	8.85878	0.2747656	0.27206348	2.3587897	21	1 24.2	20.3
89206 2001 UC_{98}	15.2	X	177.44878	347.39883	102.51109	2.50397	0.0893455	0.18121819	3.0926790	21	6 16.2	19.8
89207 2001 UJ_{99}	15.6	X	16.59199	146.33205	170.28120	3.21743	0.0738588	0.24267738	2.5455591	21	9 20.5	18.6
89208 2001 UR_{103}	15.1	X	181.02131	46.59218	64.39967	5.52981	0.0757090	0.18507327	3.0495815	21	7 17.1	19.7
89209 2001 UU_{106}	15.5	X	71.95463	356.08775	211.00402	4.73569	0.1597903	0.23272541	2.6176215	21	7 23.6	19.0
89210 2001 UH_{108}	15.7	X	334.39817	270.68546	151.31000	2.49959	0.0619807	0.19902998	2.9052960	21	11 28.9	19.4
89211 2001 UX_{108}	15.4	X	50.34862	344.25555	52.16496	6.96242	0.0692195	0.20501950	2.8484325	21	—	—
89212 2001 UD_{109}	15.7	X	8.98810	266.51339	68.50907	6.98769	0.2816913	0.24490147	2.5301239	21	11 4.5	17.8
89213 2001 UW_{109}	15.1	X	203.99560	264.03047	75.45036	6.03812	0.1703337	0.22020606	2.7159173	21	2 27.6	19.6
89214 2001 UL_{111}	15.2	X	228.02777	295.47688	7.87596	7.36604	0.0672355	0.21955465	2.7212866	21	2 8.2	19.2
89215 2001 UM_{117}	15.4	X	226.79716	98.25494	212.44225	2.60284	0.0599473	0.21938451	2.7226935	21	2 12.5	19.5
89216 2001 UN_{117}	15.5	X	230.07476	31.58441	210.81293	2.49453	0.1145206	0.25994016	2.4315720	21	—	—
89217 2001 UM_{119}	14.4	X	91.24234	92.57155	87.26642	2.23260	0.1146137	0.17872362	3.1213903	21	7 6.5	18.7
89218 2001 UP_{119}	15.2	X	258.98304	229.54579	48.98386	5.96918	0.0817288	0.21882965	2.7272939	21	2 10.3	19.2
89219 2001 UJ_{120}	16.1	X	34.39034	121.47465	191.98072	2.75563	0.1369984	0.24506175	2.5290206	21	10 23.6	18.9
89220 2001 UK_{121}	15.8	X	264.73152	198.41208	75.92474	5.06638	0.0580780	0.21986765	2.7187034	21	2 13.1	19.7
89221 2001 UH_{122}	15.6	X	198.84700	164.12978	206.58236	3.35743	0.1238487	0.22355569	2.6887199	21	3 28.6	19.7
89222 2001 UM_{122}	15.8	X	132.98803	220.85791	217.03672	2.93705	0.1270284	0.27196327	2.3593690	21	4 10.0	18.9
89223 2001 UE_{123}	16.5	X	33.17121	280.67214	58.79845	3.14299	0.2167109	0.29810193	2.2193520	21	12 19.1	19.2
89224 2001 UU_{124}	15.0	X	178.57577	299.36739	96.02064	13.93450	0.1812429	0.22551223	2.6731458	21	4 17.7	19.7
89225 2001 UE_{126}	15.1	X	201.12444	321.23191	149.92144	12.81437	0.0872021	0.18581842	3.0414233	21	8 5.9	19.7
89226 2001 UH_{127}	15.1	X	178.42436	253.60559	123.04021	6.02427	0.0651222	0.22120397	2.7077430	21	3 16.1	19.1
89227 2001 UO_{127}	15.2	X	324.24691	31.57995	204.67569	14.08390	0.1632073	0.22323776	2.6912721	21	2 16.7	18.9
89228 2001 UT_{127}	15.1	X	204.31210	153.43272	167.98313	5.21651	0.1033009	0.21806990	2.7336248	21	2 2.2	19.4
89229 2001 UY_{127}	13.8	X	248.42104	281.07257	113.73569	21.35263	0.2295475	0.17996580	3.1070105	21	6 12.3	19.0
89230 2001 UF_{132}	14.8	X	81.36581	78.87918	61.85587	11.75484	0.0773994	0.17148503	3.2086221	21	5 2.1	19.2
89231 2001 UA_{141}	15.0	X	97.49313	60.76976	44.07258	8.74154	0.0297912	0.17285414	3.1916568	21	4 1.7	19.5
89232 2001 UP_{141}	15.7	X	279.07004	195.24610	44.36430	2.84726	0.1480035	0.26825789	2.3810456	21	—	—
89233 2001 UT_{146}	15.7	X	350.50052	67.38048	202.09533	4.67163	0.1496239	0.23158899	2.6261777	21	5 25.7	18.4
89234 2001 UZ_{146}	16.1	X	5.89271	80.89692	188.99206	1.62054	0.1176264	0.23562043	2.5961359	21	6 26.5	18.6
89235 2001 UU_{148}	15.6	X	221.64870	105.49038	76.53373	3.00993	0.0231771	0.19959124	2.8998469	21	12 3.8	19.5
89236 2001 UB_{150}	16.1	X	87.50831	220.37814	190.63958	5.60723	0.0588396	0.26267252	2.4146802	21	—	—
89237 2001 UD_{152}	14.6	X	92.08537	169.37073	62.60473	18.30342	0.1268206	0.23741046	2.5830698	21	9 28.7	18.7
89238 2001 UQ_{153}	16.0	X	44.92380	238.94922	209.79560	5.73534	0.0901138	0.26073865	2.4266051	21	—	—
89239 2001 UX_{153}	15.4	X	68.74446	188.69577	152.34663	2.60032	0.0718055	0.20029317	2.8930679	21	12 23.9	19.4
89240 2001 UO_{156}	16.1	X	338.80673	159.76550	148.30188	2.94422	0.1273108	0.23543494	2.5974993	21	7 1.4	18.8
89241 2001 UE_{157}	15.0	X	111.18679	97.30974	55.21417	10.41800	0.0236573	0.17915108	3.1164232	21	6 12.6	19.5
89242 2001 UP_{157}	15.4	X	209.59906	159.66510	180.22627	4.74304	0.0632588	0.22044836	2.7139268	21	3 1.8	19.4
89243 2001 UF_{159}	15.2	X	83.31399	275.67146	70.31713	3.09429	0.0588142	0.20334909	2.8640102	21	—	—
89244 2001 UY_{164}	15.3	X	106.09562	355.28883	69.49626	9.42611	0.0818700	0.22055885	2.7130204	21	2 23.5	19.0
89245 2001 UQ_{167}	14.8	X	30.12123	274.58276	12.03223	14.26127	0.0929892	0.23695228	2.5863986	21	9 6.7	17.9
89246 2001 UU_{167}	14.5	X	138.37322	328.37335	345.58123	11.43330	0.1347252	0.25694380	2.4504393	21	—	—
89247 2001 UE_{168}	14.2	X	92.53699	150.88999	7.39610	14.19168	0.1482713	0.22415812	2.6839004	21	6 12.3	18.2
89248 2001 UR_{169}	15.4	X	163.15961	134.48490	47.22203	10.39954	0.0829143	0.19297513	2.9657542	21	9 28.3	20.0
89249 2001 UA_{171}	15.6	X	253.85904	225.44253	1.34481	2.47380	0.1490284	0.26173074	2.4204692	21	—	—
89250 2001 UH_{174}	16.2	X	261.49668	217.83490	72.61666	6.87338	0.2367414	0.27468440	2.3437613	21	2 7.8	20.1
89251 2001 UK_{174}	16.1	X	192.27518	96.29713	157.44425	1.74900	0.1399467	0.25721563	2.4487126	21	—	—
89252 2001 UT_{177}	15.6	X	142.73203	112.58405	243.34946	0.66710	0.0791590	0.21365013	2.7711962	21	1 9.8	19.4
89253 2001 UM_{178}	15.3	X	281.04731	309.18437	51.83533	13.38924	0.1172108	0.23741022	2.5830716	21	6 13.5	18.9
89254 2001 US_{178}	14.5	X	73.79952	313.82887	129.18759	10.35370	0.1149542	0.21627061	2.7487656	21	2 2.5	17.8
89255 2001 UN_{179}	15.2	X	211.10282	299.39352	230.42754	6.77197	0.0684727	0.19712912	2.9239428	21	10 31.3	19.5
89256 2001 UQ_{183}	16.1	X	347.27578	172.41835	119.82533	6.49684	0.1634568	0.28894860	2.2659778	21	6 19.9	17.7
89257 2001 UF_{184}	15.1	X	70.71159	87.03372	60.45031	2.24588	0.1180628	0.17363066	3.1821338	21	4 29.9	19.2
89258 2001 UM_{203}	15.7	X	172.97765	219.40933	31.44309	11.26846	0.1992197	0.25454288	2.4658240	21	12 29.2	19.9
89259 2001 UR_{203}	15.3	X	131.10965	136.73114	6.05384	2.38544	0.1238006	0.18116760	3.0932548	21	7 6.1	20.0
89260 2001 UT_{213}	15.0	X	36.00266	169.65721	88.08124	16.25354	0.1029844	0.23784976	2.5798883	21	8 4.2	18.2
89261 2001 VO	14.4	X	263.83196	271.79767	96.04691	22.96176	0.0660271	0.23340731	2.6125208	21	6 11.7	18.1
89262 2001 VV_{1}	16.2	X	348.71210	295.10263	47.70207	5.73117	0.2536571	0.29245170	2.2478463	21	10 4.0	17.1
89263 2001 VZ_{1}	15.3	X	279.68419	153.01569	255.11158	4.61195	0.1659004	0.28633658	2.2797374	21	8 10.8	17.9
89264 Sewanee	15.8	X	189.12222	265.31309	96.58204	11.64257	0.1374003	0.27144177	2.3623900	21	3 9.2	19.6
89265 2001 VE_{5}	14.3	X	110.76993	29.93022	94.86052	15.01634	0.1185440	0.17449516	3.1716150	21	5 24.8	19.1
89266 2001 VH_{7}	14.8	X	158.61613	227.49474	225.55128	12.55270	0.0873694	0.17811143	3.1285386	21	5 31.5	19.6
89267 2001 VP_{8}	15.1	X	328.12905	117.72983	217.65608	3.31612	0.1092787	0.18623220	3.0369166	21	7 22.0	18.9
89268 2001 VY_{8}	16.0	X	1.20288	37.76966	286.75227	2.03198	0.2363432	0.29161486	2.2521447	21	9 29.3	17.3
89269 2001 VS_{9}	16.6	X	346.50207	282.43255	89.20224	7.39674	0.1535198	0.29405804	2.2396527	21	11 8.0	18.4
89270 2001 VB_{10}	15.4	X	59.27917	265.12060	324.87010	6.62528	0.1026067	0.28597593	2.2816537	21	8 1.4	17.9
89271 2001 VS_{10}	16.1	X	307.95844	11.82678	326.15131	6.17466	0.1372187	0.28588414	2.2821421	21	6 18.0	18.5
89272 2001 VF_{11}	14.8	X	255.26224	36.20329	282.74262	11.92067	0.1633533	0.22600237	2.6692795	21	3 10.9	19.2
89273 2001 VO_{12}	14.0	X	165.43129	232.54986	256.11061	23.61936	0.2687823	0.27986640	2.3147400	21	7 19.2	18.4
89274 2001 VZ_{12}	14.9	X	122.93318	196.69317	291.43927	12.56822	0.1332600	0.22529207	2.6748871	21	6 8.5	18.9
89275 2001 VD_{13}	14.3	X	58.02430	101.33914	328.36161	8.86984	0.1077478	0.25972840	2.4328935	21	—	—
89276 2001 VK_{15}	15.5	X	168.55485	303.80473	350.85874	5.67381	0.1266824	0.25809868	2.4431241	21	—	—
89277 2001 VZ_{15}	14.7	X	269.78397	358.37442	42.35705	22.90375	0.0422391	0.24136247	2.5547959	21	8 18.5	18.6
89278 2001 VD_{16}	15.2	X	316.43409	172.20348	153.09215	9.83346	0.0933101	0.23367557	2.6105209	21	6 22.1	18.5
89279 2001 VJ_{16}	16.3	X	110.92608	348.31740	347.36290	5.55612	0.1004090	0.30820807	2.1705679	21	—	—
89280 2001 VS_{16}	15.2	X	193.77019	146.08357	256.39196	11.61255	0.1486404	0.23047067	2.6346663	21	4 30.2	19.5

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
89281 2001 VU_{16}	14.6	X	171.11652	174.88328	224.91557	21.17677	0.0749019	0.22690310	2.6622107	21	3 30.9	18.8
89282 Suzieimber	16.3	X	348.87763	187.89256	144.90431	4.90558	0.1722704	0.24104038	2.5570713	21	8 29.9	18.5
89283 2001 VJ_{17}	13.7	X	228.31300	348.38749	103.06678	22.85232	0.0151849	0.18527907	3.0473228	21	8 24.9	18.3
89284 2001 VY_{17}	16.5	X	205.65523	184.94867	121.97548	1.06837	0.0736139	0.26670688	2.3902679	21	1 8.4	19.7
89285 2001 VZ_{17}	15.1	X	176.00925	139.27342	36.01738	5.32054	0.0430336	0.24267022	2.5456092	21	10 6.9	18.5
89286 2001 VH_{18}	15.1	X	215.98233	41.18026	239.46945	4.65138	0.0380587	0.21361456	2.7715038	21	—	—
89287 2001 VM_{18}	16.3	X	333.13260	289.54361	12.45664	2.05174	0.0527220	0.28336292	2.2956590	21	6 18.3	18.6
89288 2001 VU_{18}	15.1	X	207.67758	288.87939	232.95169	6.22247	0.1446841	0.24350815	2.5397661	21	10 14.9	18.9
89289 2001 VY_{21}	15.1	X	323.07146	131.38395	312.19313	1.18631	0.0329546	0.19945839	2.9011343	21	12 9.8	19.0
89290 2001 VX_{24}	16.1	X	15.30507	69.29029	271.02222	3.12517	0.1670260	0.29502689	2.2347468	21	11 13.9	18.1
89291 2001 VM_{26}	14.8	X	228.44122	250.45831	54.49684	11.58394	0.1210955	0.21804446	2.7338374	21	2 11.2	19.3
89292 2001 VP_{26}	15.9	X	179.94465	100.48122	250.29528	3.69976	0.1444280	0.26840965	2.3801480	21	2 8.2	19.5
89293 2001 VL_{27}	15.1	X	143.66062	99.39379	64.06871	2.40748	0.0189824	0.18365874	3.0652200	21	8 7.6	19.4
89294 2001 VP_{27}	16.0	X	167.87254	281.30078	164.05178	0.74063	0.1647036	0.27702016	2.3305681	21	5 31.0	19.5
89295 2001 VE_{28}	16.4	X	12.40482	130.09991	237.42062	3.68540	0.2003508	0.29784271	2.2206395	21	12 26.1	18.6
89296 2001 VM_{28}	14.7	X	248.64122	194.05718	247.80425	7.98773	0.0376703	0.23756902	2.5819204	21	8 29.8	18.3
89297 2001 VQ_{28}	14.2	X	190.28501	147.50416	248.38166	7.83016	0.0867394	0.17380140	3.1800494	21	4 22.6	19.2
89298 2001 VD_{29}	15.5	X	223.97184	337.32289	64.12350	6.76054	0.1475876	0.28026671	2.3125353	21	5 28.1	18.8
89299 2001 VM_{29}	15.2	X	125.42500	260.58194	101.99510	3.74665	0.1188980	0.21130677	2.7916466	21	1 3.5	19.1
89300 2001 VA_{30}	15.4	X	48.95532	274.21031	49.33824	2.33079	0.0249380	0.24410877	2.5355984	21	11 8.8	18.7
89301 2001 VH_{30}	14.6	X	256.11009	71.80662	242.58300	10.39497	0.1998353	0.22391027	2.6858806	21	3 5.3	19.2
89302 2001 VR_{31}	15.7	X	254.85187	293.73002	66.56450	7.70382	0.1428995	0.27953684	2.3165589	21	5 7.8	18.8
89303 2001 VW_{31}	15.1	X	125.71285	134.18809	241.86958	6.24708	0.1069272	0.21226798	2.7832127	21	1 17.1	19.0
89304 2001 VG_{32}	15.9	X	55.26582	54.22421	9.82759	1.23474	0.1371224	0.25853213	2.4403926	21	—	—
89305 2001 VR_{32}	15.9	X	254.04312	31.00282	307.27260	1.90336	0.2399957	0.27792726	2.3254943	21	3 28.6	19.5
89306 2001 VU_{33}	15.4	X	301.77017	262.58576	67.74260	3.10342	0.1549600	0.23157719	2.6262669	21	5 27.0	18.4
89307 2001 VO_{34}	14.7	X	300.53631	167.42018	208.92652	3.08017	0.2077030	0.23799592	2.5788320	21	7 20.3	17.6
89308 2001 VU_{34}	14.5	X	329.56267	82.43889	238.62187	11.49863	0.1787631	0.23437965	2.6052902	21	6 25.9	17.2
89309 2001 VN_{36}	16.4	X	2.16216	267.05737	92.82994	6.02048	0.2066646	0.29494837	2.2351433	21	11 28.2	18.2
89310 2001 VU_{36}	14.9	X	253.47319	132.60135	255.68720	3.94280	0.1732984	0.18168695	3.0873573	21	6 11.5	19.6
89311 2001 VW_{36}	16.0	X	214.33530	88.04101	253.11448	0.76551	0.2001878	0.27164281	2.3612243	21	3 1.7	19.9
89312 2001 VE_{37}	15.7	X	102.33640	137.74426	231.62679	4.75273	0.1257786	0.25858954	2.4400314	21	—	—
89313 2001 VH_{37}	16.0	X	251.69933	115.64832	229.45118	5.50855	0.1560680	0.27703803	2.3304679	21	4 10.4	19.4
89314 2001 VF_{40}	14.4	X	327.46276	350.79471	64.49019	10.45942	0.0630566	0.19469946	2.9482177	21	11 10.4	18.2
89315 2001 VJ_{40}	15.1	X	32.66627	79.73459	255.30801	0.95598	0.1640311	0.24546242	2.5262677	21	11 23.2	17.9
89316 2001 VW_{40}	16.5	X	186.02214	197.72120	211.30014	5.48229	0.1230586	0.27510915	2.3413483	21	4 30.1	19.9
89317 2001 VA_{41}	15.8	X	237.09878	257.43316	59.08811	7.28207	0.1481218	0.27064774	2.3670083	21	2 24.6	19.6
89318 2001 VE_{42}	14.7	X	100.29913	294.47752	77.85145	8.54024	0.2367772	0.20929450	2.8095116	21	1 1.2	18.2
89319 2001 VO_{42}	14.5	X	4.42698	305.87919	60.89682	10.29779	0.0978128	0.19349819	2.9604071	21	11 4.8	18.1
89320 2001 VT_{42}	16.8	X	190.81205	13.71573	38.58035	0.47175	0.1973016	0.27635448	2.3343092	21	5 9.7	20.5
89321 2001 VB_{43}	15.6	X	242.96017	330.69482	75.74128	8.32830	0.1759860	0.28283069	2.2985380	21	6 21.5	18.9
89322 2001 VF_{43}	15.9	X	130.57802	230.16531	188.66621	1.89701	0.2111200	0.26851718	2.3795126	21	3 24.2	19.3
89323 2001 VA_{44}	15.5	X	317.54764	341.07395	72.68197	9.31354	0.0535157	0.24254410	2.5464915	21	11 3.9	18.5
89324 2001 VG_{44}	16.2	X	173.04812	296.04479	118.52133	2.92530	0.1960939	0.27395999	2.3478911	21	4 28.3	19.9
89325 2001 VW_{44}	15.5	X	137.05494	351.91753	34.80266	3.20135	0.2055034	0.26575995	2.3959423	21	2 19.0	18.8
89326 2001 VP_{45}	15.3	X	209.53087	266.26658	89.70137	6.83880	0.1395179	0.27106191	2.3645966	21	3 20.0	19.0
89327 2001 VD_{46}	15.4	X	247.55311	271.82411	81.42902	7.52392	0.1545998	0.27564209	2.3383294	21	4 21.6	18.9
89328 2001 VF_{46}	14.5	X	247.68092	271.91364	73.48769	13.96579	0.2160153	0.22494658	2.6776252	21	4 14.3	19.1
89329 2001 VR_{46}	15.6	X	229.92329	337.91085	87.00373	4.59530	0.1427435	0.28093270	2.3088791	21	7 6.2	18.7
89330 2001 VT_{46}	15.4	X	149.86731	186.69002	269.70164	5.15621	0.1504559	0.27312757	2.3526592	21	5 26.3	18.8
89331 2001 VX_{47}	15.4	X	131.47118	103.94022	52.71476	6.29163	0.1018860	0.27919217	2.3184651	21	7 25.3	18.6
89332 2001 VT_{48}	15.1	X	293.03334	340.72719	90.35619	13.78078	0.1295184	0.23987501	2.5653466	21	10 17.1	18.3
89333 2001 VJ_{51}	14.3	X	126.48348	276.68323	257.30878	9.41765	0.1082089	0.18519736	3.0482192	21	8 4.3	19.0
89334 2001 VM_{53}	15.4	X	51.94140	319.56324	319.43076	4.77674	0.1467401	0.24259191	2.5461570	21	9 30.5	18.7
89335 2001 VU_{53}	15.8	X	265.43320	48.49069	258.72891	4.90252	0.2296821	0.27805054	2.3248069	21	2 27.0	19.5
89336 2001 VZ_{53}	15.3	X	265.74588	349.19581	296.22996	4.32665	0.0862286	0.22239338	2.6980799	21	2 21.4	19.3
89337 2001 VJ_{54}	15.2	X	191.23840	280.70122	1.82150	8.57324	0.1239406	0.21199769	2.7855778	21	—	—
89338 2001 VC_{55}	14.5	X	212.64029	6.92239	256.52664	11.56258	0.1059576	0.21198487	2.7856901	21	—	—
89339 2001 VV_{56}	15.1	X	161.46833	319.94735	337.57293	5.21170	0.0153029	0.20955723	2.8071629	21	—	—
89340 2001 VT_{57}	15.1	X	332.60031	337.17333	29.15646	11.32024	0.1349108	0.19229535	2.9727395	21	9 15.1	18.6
89341 2001 VM_{58}	15.2	X	261.47378	299.35674	306.59517	4.15414	0.1084409	0.21535789	2.7565266	21	—	—
89342 2001 VX_{58}	15.1	X	213.75504	346.74807	265.39264	6.79364	0.1548354	0.26007045	2.4307598	21	—	—
89343 2001 VX_{62}	14.9	X	195.35422	37.45782	252.20526	11.23619	0.0791796	0.21183381	2.7870143	21	—	—
89344 2001 VY_{63}	16.3	X	284.00398	289.53408	40.23667	7.47648	0.1429336	0.28110739	2.3079224	21	4 29.7	19.1
89345 2001 VY_{65}	15.9	X	310.28568	51.60498	280.35658	4.34028	0.1615140	0.28474507	2.2882242	21	6 8.1	18.1
89346 2001 VH_{66}	16.1	X	253.91758	350.74878	43.02932	8.13222	0.1749775	0.28402629	2.2920831	21	6 15.9	19.3
89347 2001 VS_{66}	14.8	X	76.11434	209.82656	46.73150	13.89632	0.1067861	0.23872814	2.5735561	21	10 4.3	18.5
89348 2001 VB_{67}	15.0	X	217.69386	28.64360	318.43219	3.18833	0.2779495	0.22460277	2.6803570	21	3 14.2	19.9
89349 2001 VB_{71}	14.4	X	298.78354	320.84494	54.72281	12.35147	0.0895679	0.18505036	3.0498332	21	8 7.7	18.6
89350 2001 VM_{71}	15.6	X	78.99558	325.81965	91.69728	5.52462	0.0808705	0.26001253	2.4311208	21	—	—
89351 2001 VB_{75}	15.0	X	125.94716	357.92525	92.55125	8.49178	0.0631981	0.27641959	2.3339426	21	4 14.1	18.1
89352 2001 VC_{75}	14.4	X	43.06319	343.60502	84.84619	9.33260	0.2101630	0.21041281	2.7995481	21	—	—
89353 2001 VN_{75}	15.6	X	26.29388	318.68721	265.84634	3.83745	0.1311877	0.23159562	2.6261276	21	5 28.9	18.2
89354 2001 VL_{76}	15.0	X	223.10047	289.40323	351.90351	4.46409	0.0952042	0.21582501	2.7525478	21	1 5.7	19.3
89355 2001 VS_{78}	15.7	X	29.76346	84.88503	103.10483	22.66684	0.3081132	0.41261962	1.7869105	21	1 19.1	15.7
89356 2001 VB_{79}	15.4	X	238.96898	86.98363	227.43673	3.31240	0.0432614	0.22111993	2.7084290	21	3 2.9	19.3
89357 2001 VX_{79}	15.2	X	346.49118	177.61950	134.42325	9.98728	0.0784315	0.23544645	2.5974146	21	7 24.1	18.3
89358 2001 VA_{80}	15.4	X	349.84967	291.23986	76.15893	7.10642	0.1115515	0.29125092	2.2540204	21	11 2.7	17.4
89359 2001 VF_{80}	15.7	X	228.23900	343.07493	84.72797	2.27387	0.1800591	0.28142495	2.3061859	21	7 4.9	19.3
89360 2001 VM_{80}	15.3	X	209.36745	353.00881	283.15507	5.25135	0.0166482	0.21238022	2.7822320	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
89361 2001 VR_{80}	15.4	X	352.91546	69.40111	236.13354	14.06330	0.1483598	0.23809014	2.5781516	21	7 20.4	18.3
89362 2001 VS_{80}	15.8	X	168.81865	54.82175	8.87345	7.00918	0.0871911	0.27625670	2.3348599	21	4 27.0	19.0
89363 2001 VC_{81}	14.2	X	193.39683	93.81325	68.23839	12.76958	0.2260269	0.23552590	2.5968305	21	10 3.7	18.8
89364 2001 VK_{81}	15.3	X	244.85834	14.60648	92.17445	3.46669	0.1155681	0.23584293	2.5945028	21	9 22.0	18.9
89365 2001 VZ_{81}	16.3	X	359.85347	201.49995	136.08858	2.19828	0.2581013	0.29301227	2.2449784	21	10 26.4	17.5
89366 2001 VS_{83}	15.9	X	90.42799	277.76507	247.15754	6.53234	0.0415468	0.28062649	2.3105584	21	6 1.2	18.6
89367 2001 VT_{84}	14.7	X	61.61924	246.28277	302.42703	9.17511	0.0650692	0.17884906	3.1199306	21	5 31.4	19.0
89368 2001 VZ_{85}	15.2	X	163.49526	307.43412	341.94768	2.44893	0.0083802	0.20662208	2.8336849	21	—	—
89369 2001 VL_{86}	14.8	X	343.49107	198.18287	81.02080	14.62265	0.1671513	0.23031966	2.6358178	21	5 25.9	17.6
89370 2001 VU_{86}	14.9	X	128.84581	314.56956	254.01891	12.22271	0.0890923	0.24476185	2.5310859	21	9 19.4	18.9
89371 2001 VD_{87}	14.7	X	325.45168	196.60548	132.50860	17.05467	0.0539897	0.18178383	3.0862603	21	7 15.3	18.8
89372 2001 VE_{87}	15.1	X	119.48870	95.26813	111.71691	22.34875	0.0576494	0.23520656	2.5991805	21	9 17.4	19.2
89373 2001 VO_{87}	15.3	X	49.05922	79.36021	184.55012	3.01213	0.0816428	0.18643159	3.0347509	21	8 23.1	19.4
89374 2001 VW_{89}	14.8	X	298.81774	224.62098	90.16010	15.53150	0.1190902	0.23112620	2.6296822	21	5 12.4	18.4
89375 2001 VB_{91}	14.6	X	256.72767	233.99194	151.59470	10.02821	0.0786372	0.18292562	3.0734042	21	6 23.6	19.2
89376 2001 VD_{91}	15.4	X	304.13947	198.23265	121.79531	10.65217	0.1415498	0.23253326	2.6190633	21	5 21.7	18.8
89377 2001 VS_{93}	14.8	X	238.23249	166.03156	179.21219	14.06024	0.1210362	0.22484894	2.6784003	21	4 6.9	18.8
89378 2001 VG_{94}	14.5	X	159.75697	320.35608	153.05665	13.77693	0.1036824	0.17798435	3.1300276	21	6 27.7	19.5
89379 2001 VV_{94}	15.2	X	312.57477	194.34951	135.06727	13.14824	0.1901344	0.23376110	2.6098841	21	6 8.4	18.4
89380 2001 VF_{96}	15.4	X	269.12563	166.58643	180.27008	12.13085	0.1711839	0.23022743	2.6365216	21	5 7.2	19.4
89381 2001 VR_{97}	15.1	X	240.57092	163.94896	190.23978	12.56797	0.2431302	0.22655366	2.6649475	21	4 11.4	19.6
89382 2001 VS_{97}	15.0	X	277.68649	314.42251	126.60674	14.96089	0.1160385	0.24017449	2.5632136	21	10 7.3	18.4
89383 2001 VQ_{99}	14.6	X	340.39991	275.08584	100.82313	22.74901	0.0134811	0.24251551	2.5466917	21	10 27.2	18.5
89384 2001 VB_{101}	15.7	X	253.90143	320.55327	262.50454	5.74041	0.0845144	0.26015478	2.4302345	21	—	—
89385 2001 VW_{102}	15.0	X	27.09431	144.72006	42.99121	16.33222	0.0772838	0.17174158	3.2054259	21	4 16.3	19.1
89386 2001 VG_{105}	15.9	X	34.69783	325.54204	348.58234	2.64910	0.1787974	0.24409389	2.5357014	21	10 30.1	18.9
89387 2001 VA_{106}	15.8	X	2.64035	67.55805	260.06019	0.72528	0.1796579	0.24197414	2.5504887	21	9 21.6	18.1
89388 2001 VE_{106}	16.3	X	237.57577	357.97094	290.92522	2.97443	0.2098348	0.27077192	2.3662845	21	1 16.9	20.0
89389 2001 VY_{107}	15.3	X	153.48865	198.09297	333.45586	1.13420	0.0375249	0.18662356	3.0326694	21	8 30.1	19.7
89390 2001 VC_{108}	15.4	X	138.40020	249.33928	35.25727	2.53102	0.0503415	0.20216151	2.8752155	21	12 31.8	19.7
89391 2001 VU_{108}	15.7	X	327.64843	342.89562	275.33696	6.07138	0.0942915	0.27471316	2.3435978	21	3 26.5	18.6
89392 2001 VG_{112}	16.2	X	342.37592	309.59052	21.07374	3.84361	0.1966470	0.23885079	2.5726750	21	8 11.4	18.3
89393 2001 VT_{116}	15.3	X	164.61146	261.32092	66.67819	5.32032	0.0686442	0.21063789	2.7975534	21	—	—
89394 2001 VJ_{117}	15.5	X	147.67498	158.54460	40.48984	5.26388	0.0489302	0.23864723	2.5741378	21	10 3.9	19.0
89395 2001 VM_{118}	14.7	X	261.69750	268.52097	59.18416	5.31436	0.1607595	0.22460607	2.6803308	21	4 6.2	18.7
89396 2001 VT_{118}	15.1	X	135.40623	310.77748	260.02903	10.45179	0.1284646	0.23959199	2.5673664	21	10 2.0	19.4
89397 2001 VV_{118}	15.9	X	216.38968	240.90210	46.90534	8.59610	0.1989987	0.26496941	2.4007055	21	—	—
89398 2001 VH_{119}	14.6	X	293.12829	231.11900	53.93606	12.70083	0.0853657	0.17259184	3.1948898	21	4 7.1	19.2
89399 2001 VM_{120}	15.8	X	320.36218	334.39421	62.83409	4.82498	0.1446181	0.29111133	2.2547409	21	10 20.8	17.5
89400 2001 WB	15.6	X	42.56297	102.96810	326.91765	1.88858	0.1679163	0.25761471	2.4461830	21	—	—
89401 2001 WU_{3}	15.5	X	37.89634	141.03511	51.77394	1.93697	0.1457700	0.17257696	3.1950734	21	5 11.5	19.3
89402 2001 WG_{4}	14.6	X	210.12821	133.07736	221.73247	8.83082	0.2138093	0.22236791	2.6982859	21	3 16.9	19.4
89403 2001 WG_{7}	16.5	X	195.71403	179.73720	108.19198	2.46124	0.1703079	0.26299950	2.4126784	21	—	—
89404 2001 WS_{8}	16.5	X	70.40492	214.11409	88.18116	5.50528	0.1625967	0.29724568	2.2236120	21	12 6.1	19.5
89405 2001 WL_{9}	15.2	X	48.96475	163.43178	111.53229	7.10123	0.1060682	0.28860660	2.2677676	21	9 25.7	17.8
89406 2001 WB_{10}	16.3	X	80.10571	223.02448	108.26306	6.42231	0.1996900	0.30240326	2.1982567	21	—	—
89407 2001 WF_{10}	16.0	X	160.22619	261.76611	127.03552	6.97730	0.1186524	0.26933767	2.3746776	21	3 9.4	19.3
89408 2001 WN_{10}	15.5	X	98.46098	357.10584	219.85723	7.08660	0.1550229	0.23633478	2.5909019	21	9 5.7	19.4
89409 2001 WP_{12}	16.5	X	315.56505	161.26188	168.13767	6.18279	0.1466278	0.28437448	2.2902117	21	6 16.9	18.8
89410 2001 WQ_{13}	15.5	X	137.56122	179.20563	151.47423	7.17709	0.1366861	0.25795091	2.4440570	21	—	—
89411 2001 WO_{16}	15.5	X	3.00249	66.37978	302.15098	0.92561	0.0789418	0.19787167	2.9166230	21	11 1.9	19.3
89412 2001 WV_{16}	15.1	X	123.59406	181.22828	29.83108	9.33769	0.0695644	0.19165616	2.9793455	21	9 20.1	19.5
89413 2001 WM_{21}	15.4	X	269.21888	74.16494	125.32253	7.37824	0.0594207	0.25977481	2.4326037	21	—	—
89414 2001 WT_{21}	14.7	X	193.37537	339.41622	104.87928	11.30264	0.0965501	0.18158456	3.0885177	21	6 25.8	19.4
89415 2001 WM_{25}	15.7	X	37.61296	61.58262	221.73954	3.85491	0.1349226	0.24112765	2.5564544	21	9 13.4	18.6
89416 2001 WP_{26}	16.9	X	337.10660	222.34276	97.06723	2.23856	0.1171553	0.28678951	2.2773365	21	7 17.9	18.7
89417 2001 WP_{28}	16.1	X	135.54349	315.87708	107.25995	3.20971	0.1956491	0.27038427	2.3685457	21	4 3.9	19.5
89418 2001 WT_{28}	16.4	X	201.82487	224.69706	145.18205	3.21898	0.1840010	0.27416276	2.3467333	21	3 27.7	20.0
89419 2001 WX_{28}	15.5	X	272.20703	178.76931	114.52844	7.66373	0.1059008	0.27249837	2.3562793	21	3 5.5	18.8
89420 2001 WB_{29}	15.9	X	267.35083	231.48264	145.22020	4.08052	0.1192496	0.28318989	2.2965939	21	6 17.3	18.7
89421 2001 WS_{29}	15.3	X	249.14520	232.63705	144.32205	4.87368	0.2232515	0.23137282	2.6278132	21	5 18.7	19.5
89422 2001 WY_{29}	14.9	X	295.47744	225.14029	90.51574	15.40155	0.1475986	0.22867086	2.6484727	21	5 5.7	18.7
89423 2001 WG_{36}	16.2	X	140.63155	222.07878	184.15475	5.66220	0.1037801	0.26871174	2.3783638	21	3 4.8	19.4
89424 2001 WB_{38}	16.5	X	185.14258	220.45291	164.01480	4.05349	0.1653566	0.27319222	2.3522880	21	3 30.4	20.1
89425 2001 WF_{38}	14.8	X	191.32430	8.72943	86.79254	11.41028	0.0793331	0.18046577	3.1012693	21	7 7.9	19.5
89426 2001 WU_{38}	16.7	X	240.39738	235.93901	123.77464	5.38533	0.2170214	0.27806497	2.3247265	21	4 17.8	20.4
89427 2001 WC_{39}	14.8	X	355.20784	204.68375	99.07549	13.46342	0.0797298	0.23322613	2.6138736	21	7 28.6	17.8
89428 2001 WQ_{39}	14.2	X	328.64825	285.34245	103.24107	11.67576	0.1670398	0.19130808	2.9829582	21	10 8.3	17.7
89429 2001 WT_{39}	14.5	X	184.62255	221.93019	100.85647	14.70307	0.1986477	0.21331291	2.7741161	21	1 22.6	19.2
89430 2001 WK_{40}	15.1	X	346.20093	218.23001	160.15650	5.94089	0.2459125	0.24384426	2.5374317	21	11 12.4	17.0
89431 2001 WT_{40}	15.4	X	298.29951	199.86690	132.47977	5.34915	0.1620349	0.27938502	2.3173981	21	5 22.1	18.1
89432 2001 WB_{41}	15.4	X	45.24253	197.95750	202.09910	5.81468	0.1319812	0.25386716	2.4701976	21	—	—
89433 2001 WM_{41}	15.0	X	297.45551	241.03075	184.96721	4.70175	0.1824022	0.23937465	2.5689202	21	10 1.7	17.7
89434 2001 WO_{41}	15.1	X	52.41470	247.44708	175.60009	5.59359	0.1715512	0.25504255	2.4626024	21	—	—
89435 2001 WK_{45}	15.0	X	296.82728	186.88267	112.96607	12.54302	0.0928569	0.23010554	2.6374526	21	4 24.6	18.7
89436 2001 WE_{46}	15.2	X	16.36358	6.94807	307.82839	1.07835	0.0753995	0.18980558	2.9986796	21	9 11.2	19.1
89437 2001 WR_{46}	16.0	X	36.56089	327.89436	350.10778	3.19628	0.1938295	0.24490558	2.5300956	21	11 9.5	19.1
89438 2001 WJ_{48}	15.1	X	164.02695	224.79075	106.80662	12.28987	0.0532931	0.21280442	2.7785334	21	1 1.8	19.0
89439 2001 WK_{48}	15.2	X	299.27826	246.45268	104.92658	12.50341	0.1079206	0.23454181	2.6040892	21	6 29.8	18.3
89440 2001 WQ_{49}	16.1	X	232.08553	218.42977	34.78968	1.94713	0.1221549	0.26246566	2.4159488	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
89441 2001 WU_{52}	15.8	X	220.93480	0.38165	249.96554	3.11722	0.0567859	0.21042963	2.7993989	21	—	—
89442 2001 WA_{54}	15.9	X	184.88725	305.37172	305.00200	1.13098	0.2049004	0.25619593	2.4552058	21	—	—
89443 2001 WH_{57}	15.3	X	354.06787	80.15017	229.83262	0.89257	0.0684301	0.18674876	3.0313138	21	8 1.0	19.2
89444 2001 WB_{60}	15.9	X	259.76105	48.62423	233.49699	8.21321	0.1296280	0.22023525	2.7156773	21	2 5.5	20.2
89445 2001 WS_{78}	16.1	X	182.00482	53.28141	207.04246	1.50757	0.2168149	0.25589568	2.4571259	21	—	—
89446 2001 WW_{78}	15.8	X	6.33903	207.38880	183.20166	2.02756	0.0715858	0.19841533	2.9112929	21	12 5.0	19.4
89447 2001 WT_{86}	16.1	X	250.14249	100.13780	243.71081	5.54950	0.2380080	0.27583498	2.3372392	21	3 31.3	20.0
89448 2001 WF_{90}	15.2	X	102.90491	169.95797	34.00167	14.30725	0.0533851	0.23499291	2.6007556	21	8 22.6	19.0
89449 2001 WG_{93}	14.5	X	106.35498	73.00093	86.56379	19.20194	0.0456407	0.17874934	3.1210909	21	6 19.4	18.9
89450 2001 WN_{98}	15.3	X	107.34369	220.19169	121.00663	7.22785	0.0868443	0.20632234	2.8364288	21	—	—
89451 2001 WG_{99}	14.6	X	92.83665	277.73096	203.03721	9.88655	0.0871690	0.17030884	3.2233781	21	4 21.5	19.1
89452 2001 WK_{99}	16.5	X	100.61809	204.54822	177.14965	5.80801	0.1341570	0.25948238	2.4344310	21	—	—
89453 2001 WF_{102}	15.5	X	74.72194	28.18653	226.27087	9.18056	0.0405051	0.18871222	3.0102509	21	9 5.2	19.8
89454 2001 XG	14.9	X	230.08869	284.35791	57.28534	22.23298	0.3188674	0.28164745	2.3049712	21	3 24.8	19.5
89455 2001 XJ_{1}	15.8	X	212.33748	207.94685	129.52881	7.24605	0.1398473	0.26956204	2.3733597	21	2 25.2	19.4
89456 2001 XC_{5}	16.0	X	252.38677	220.93048	85.43119	6.05249	0.1280282	0.27201748	2.3590556	21	2 26.9	19.5
89457 2001 XD_{5}	15.0	X	26.73478	198.16347	125.24798	2.92324	0.0787049	0.19199046	2.9758859	21	10 10.2	18.8
89458 2001 XV_{5}	15.4	X	161.59498	39.50635	129.23038	14.46310	0.0955324	0.23747041	2.5826351	21	9 13.1	19.4
89459 2001 XX_{5}	15.1	X	343.19930	197.92350	118.47677	14.60779	0.1738782	0.23685507	2.5871062	21	7 20.2	17.4
89460 2001 XB_{8}	14.7	X	139.16412	323.67539	130.38986	18.87099	0.1082989	0.17394025	3.1783569	21	5 19.8	19.9
89461 2001 XJ_{8}	14.6	X	266.80158	39.17300	297.87796	11.91991	0.1785348	0.22913610	2.6448865	21	4 12.7	18.9
89462 2001 XB_{11}	15.3	X	328.57895	14.50955	136.27803	4.48353	0.0370574	0.21047856	2.7989650	21	—	—
89463 2001 XR_{11}	15.1	X	155.15706	150.40195	315.50109	11.35775	0.1365086	0.27747066	2.3280448	21	6 13.0	18.8
89464 2001 XZ_{12}	15.2	X	205.63777	184.06958	306.62486	12.99865	0.1830028	0.23443652	2.6048689	21	8 28.1	19.5
89465 2001 XF_{16}	14.1	X	119.15085	241.48706	280.39636	20.79037	0.1075372	0.17393397	3.1784334	21	7 13.4	19.0
89466 2001 XL_{17}	15.4	X	326.89740	82.95937	17.72136	4.71691	0.0945999	0.29958042	2.2120440	21	—	—
89467 2001 XJ_{19}	15.6	X	274.17136	352.60412	40.23645	5.49355	0.1564653	0.28428036	2.2907172	21	7 15.4	18.3
89468 2001 XK_{20}	15.4	X	207.03408	65.18239	62.27083	8.52531	0.0265407	0.23472889	2.6027055	21	9 16.3	19.0
89469 2001 XG_{21}	15.4	X	1.32349	11.97124	3.04404	5.71935	0.1231382	0.24273224	2.5451756	21	11 20.3	18.3
89470 2001 XB_{22}	15.2	X	268.60899	12.12976	41.84979	7.18773	0.1185645	0.28462628	2.2888608	21	8 16.7	18.0
89471 2001 XJ_{22}	15.4	X	193.21478	306.12096	41.54980	6.58918	0.2064335	0.26657779	2.3910394	21	2 24.3	19.4
89472 2001 XK_{22}	15.7	X	357.38680	320.85749	80.83827	15.84267	0.0493120	0.24421647	2.5348528	21	12 14.3	18.6
89473 2001 XS_{22}	15.7	X	281.93234	58.86459	0.36278	3.62994	0.0837325	0.23768641	2.5810702	21	9 11.8	18.9
89474 2001 XA_{23}	15.1	X	96.66089	320.36046	43.38156	5.60217	0.2057920	0.20566689	2.8424520	21	—	—
89475 2001 XH_{24}	15.2	X	213.60295	67.78895	340.17250	4.08274	0.1510648	0.27705869	2.3303520	21	5 25.2	18.9
89476 2001 XX_{24}	16.0	X	160.57416	6.51054	24.23861	5.06374	0.2485812	0.26812455	2.3818349	21	3 21.9	19.8
89477 2001 XL_{25}	15.1	X	148.06585	301.95295	99.50303	23.14039	0.2563059	0.26692935	2.3889396	21	4 5.4	19.5
89478 2001 XS_{25}	15.6	X	145.17865	23.97056	322.31794	5.79904	0.1471155	0.25914781	2.4365259	21	—	—
89479 2001 XR_{26}	14.9	X	347.67700	339.10552	91.59076	13.06309	0.1782836	0.24590229	2.5232542	21	—	—
89480 2001 XE_{27}	14.8	X	349.33697	10.00752	23.10138	5.35775	0.1759021	0.29174399	2.2514801	21	12 17.0	16.7
89481 2001 XH_{27}	15.7	X	268.64869	336.54387	56.34603	6.11241	0.2108849	0.28080554	2.3095761	21	6 28.3	18.7
89482 2001 XK_{28}	15.1	X	23.16195	173.45393	149.23525	8.04209	0.1623070	0.24206772	2.5498314	21	10 25.0	18.0
89483 2001 XE_{29}	15.3	X	165.77322	151.20747	222.92250	5.82747	0.1442445	0.26487733	2.4012618	21	2 22.7	19.0
89484 2001 XO_{29}	15.4	X	69.41321	238.52185	160.09230	3.02841	0.1750078	0.25629990	2.4545418	21	—	—
89485 2001 XK_{31}	15.8	X	235.10510	104.11483	260.03912	3.85848	0.2824374	0.27688374	2.3313336	21	4 11.7	19.9
89486 2001 XL_{31}	15.0	X	246.38226	57.84456	282.51935	19.97848	0.3474453	0.27338283	2.3511945	21	3 9.6	19.8
89487 2001 XU_{31}	15.4	X	256.76839	263.10997	114.57210	4.46001	0.1769880	0.27945002	2.3170387	21	5 29.4	18.6
89488 2001 XG_{33}	14.6	X	140.50757	345.07069	278.64309	9.15043	0.0676189	0.19250572	2.9705734	21	12 7.4	19.1
89489 2001 XR_{33}	16.6	X	175.11092	162.71783	181.55274	1.59284	0.1448591	0.26532905	2.3985357	21	1 27.8	20.0
89490 2001 XW_{35}	16.1	X	269.49319	62.96340	309.35767	8.65563	0.0475053	0.28245240	2.3005899	21	6 25.9	18.9
89491 2001 XD_{36}	14.9	X	174.35907	206.72746	288.83126	11.45284	0.0889685	0.23365326	2.6106871	21	8 7.9	18.9
89492 2001 XP_{36}	14.9	X	172.81876	183.23577	320.57898	7.88802	0.1387482	0.23324468	2.6137350	21	8 19.1	19.0
89493 2001 XJ_{38}	15.6	X	303.33172	17.08993	339.49969	6.97688	0.1383418	0.28508858	2.2863857	21	7 10.5	18.0
89494 2001 XY_{38}	14.3	X	224.50584	292.85528	26.70213	13.36177	0.1988405	0.21841802	2.7307194	21	2 24.3	19.1
89495 2001 XX_{40}	14.5	X	22.24608	253.17371	52.23228	14.85900	0.2098345	0.23683933	2.5872209	21	10 9.3	17.4
89496 2001 XF_{42}	14.4	X	179.69945	337.12718	32.04106	10.32966	0.2121609	0.21815412	2.7329212	21	3 16.8	19.1
89497 2001 XX_{42}	15.1	X	21.87737	212.74093	41.08231	12.23574	0.0291464	0.22609896	2.6685192	21	6 26.3	18.7
89498 2001 XV_{43}	13.9	X	37.54709	297.52712	288.33172	24.00138	0.2602128	0.17276166	3.1927958	21	7 10.8	17.4
89499 2001 XU_{46}	15.2	X	153.40430	0.92597	11.08974	8.15683	0.1169083	0.26224322	2.4173148	21	2 10.0	18.6
89500 2001 XK_{48}	14.2	X	315.83770	82.70731	324.93373	11.15959	0.0423151	0.19614710	2.9336939	21	10 9.2	18.3
89501 2001 XR_{48}	14.5	X	302.70209	67.27049	251.98084	21.04853	0.0165279	0.23160634	2.6260466	21	6 3.6	18.0
89502 2001 XS_{48}	15.9	X	87.21835	232.24219	67.34102	2.62210	0.0911008	0.24700192	2.5157597	21	12 4.7	19.3
89503 2001 XP_{50}	14.9	X	168.91520	53.08797	75.13719	10.26853	0.0354545	0.18223066	3.0812132	21	7 25.7	19.5
89504 2001 XV_{50}	15.0	X	123.62251	213.81005	237.87368	3.15456	0.1088456	0.17105617	3.2139829	21	4 23.8	19.8
89505 2001 XX_{51}	15.0	X	91.52419	319.93251	239.24461	11.08356	0.0859844	0.18040925	3.1019171	21	7 24.1	19.6
89506 2001 XD_{53}	15.2	X	54.97417	242.80773	258.08718	7.88711	0.1027377	0.21703739	2.7422876	21	3 15.9	18.7
89507 2001 XF_{53}	16.0	X	224.06549	157.06424	214.55004	2.00242	0.2224777	0.27735520	2.3286908	21	4 15.9	20.0
89508 2001 XJ_{54}	14.5	X	318.18645	227.54505	104.52781	15.87858	0.0537218	0.18283938	3.0743707	21	7 8.9	18.5
89509 2001 XW_{54}	16.8	X	195.06693	68.96066	280.41063	0.43308	0.2049240	0.27013751	2.3699878	21	2 24.2	20.8
89510 2001 XB_{55}	15.9	X	22.80886	184.61813	129.90787	7.53517	0.1224617	0.28931730	2.2640523	21	10 15.2	18.3
89511 2001 XD_{56}	16.2	X	163.45358	254.43079	115.27164	3.66981	0.1679605	0.26756606	2.3851482	21	2 19.9	19.7
89512 2001 XF_{56}	16.3	X	124.33914	285.66342	111.80573	2.37834	0.1777772	0.26532371	2.3985679	21	2 13.7	19.4
89513 2001 XV_{57}	15.8	X	145.39066	219.72463	169.53787	2.38896	0.2045251	0.26748871	2.3856080	21	2 28.9	19.2
89514 2001 XA_{59}	15.6	X	294.54539	154.82539	210.13146	2.15006	0.1802110	0.28493900	2.2871858	21	6 29.1	18.0
89515 2001 XB_{59}	15.0	X	102.17425	169.96560	267.68969	5.63892	0.1042279	0.26561329	2.3968242	21	2 22.8	18.0
89516 2001 XN_{59}	14.7	X	62.31830	213.66909	95.31922	15.71419	0.1110111	0.24306115	2.5428789	21	11 23.5	18.3
89517 2001 XJ_{61}	16.0	X	101.59786	277.03843	113.26921	3.17817	0.1750201	0.26104588	2.4247008	21	1 2.7	18.6
89518 2001 XH_{62}	15.9	X	231.16223	241.85865	107.94657	3.65315	0.2561662	0.27447248	2.3449676	21	3 26.6	20.0
89519 2001 XV_{62}	15.3	X	113.35393	240.23140	123.73555	3.23625	0.1825465	0.25814002	2.4428632	21	—	—
89520 2001 XS_{63}	15.1	X	225.23027	243.23517	238.63358	3.07371	0.1881033	0.23543222	2.5975193	21	9 7.2	19.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
89521 2001 XG_{64}	15.5	X	254.49941	319.23097	109.79898	5.46160	0.1769922	0.23413194	2.6071276	21	8 4.6	19.1
89522 2001 XL_{64}	16.1	X	12.30482	183.50682	212.21987	0.66062	0.2308287	0.29850987	2.2173296	21	—	—
89523 2001 XU_{64}	15.0	X	308.61864	320.68254	92.12098	10.02798	0.1065876	0.24042251	2.5614505	21	10 18.1	18.0
89524 2001 XU_{66}	15.5	X	18.54416	338.89783	106.20799	2.89265	0.1436875	0.25301419	2.4757463	21	—	—
89525 2001 XA_{68}	15.3	X	108.40987	357.17842	76.19277	11.04899	0.2097661	0.26333738	2.4106142	21	3 24.5	18.6
89526 2001 XY_{68}	14.8	X	263.72775	153.65993	77.19596	6.18976	0.1082996	0.21430268	2.7655678	21	—	—
89527 2001 XE_{71}	15.8	X	234.19858	117.94052	202.04521	3.86333	0.1084659	0.22181719	2.7027502	21	3 1.1	19.9
89528 2001 XG_{74}	15.1	X	132.32220	228.60940	211.45775	4.51695	0.0520872	0.17103012	3.2143091	21	4 13.1	19.8
89529 2001 XP_{75}	16.5	X	54.17153	215.43893	80.21964	6.38896	0.1741740	0.29572290	2.2312389	21	11 11.0	19.3
89530 2001 XA_{76}	15.4	X	222.74879	210.58736	78.32985	11.44561	0.1202188	0.21619291	2.7494242	21	1 14.2	19.8
89531 2001 XD_{76}	14.9	X	342.08999	232.16020	63.49999	11.88450	0.0158000	0.18216465	3.0819575	21	6 27.1	19.2
89532 2001 XP_{77}	16.0	X	61.07804	69.82428	211.22516	2.96673	0.0948928	0.24062218	2.5600333	21	10 9.2	19.3
89533 2001 XV_{79}	16.3	X	167.20157	198.92222	146.94888	3.08224	0.1804975	0.26416661	2.4055669	21	1 25.3	20.0
89534 2001 XO_{80}	15.8	X	96.49155	270.07511	152.32578	7.31802	0.0760839	0.26381217	2.4077210	21	1 22.7	18.7
89535 2001 XU_{83}	15.5	X	60.31458	164.43900	234.17467	12.24990	0.0820302	0.25528917	2.4610161	21	—	—
89536 2001 XG_{84}	15.4	X	275.72216	296.76593	150.39783	3.21794	0.1303692	0.24030348	2.5622963	21	10 5.0	18.3
89537 2001 XJ_{85}	14.7	X	86.10698	46.84351	114.91309	11.42389	0.0463488	0.22199472	2.7013091	21	5 28.2	18.4
89538 2001 XD_{86}	15.2	X	140.84697	141.49182	215.08514	1.79269	0.2057514	0.25977785	2.4325847	21	1 15.1	18.7
89539 2001 XK_{86}	15.3	X	79.43377	206.87135	202.02394	1.75496	0.1746689	0.25763374	2.4460625	21	—	—
89540 2001 XN_{86}	15.5	X	297.86487	179.66583	262.36031	3.52024	0.1615681	0.24103161	2.5571333	21	10 27.7	18.1
89541 2001 XR_{87}	15.6	X	108.73339	193.78097	209.64408	5.94054	0.1162387	0.25951514	2.4342261	21	1 20.9	18.6
89542 2001 XH_{89}	15.5	X	122.26862	164.94904	48.09277	13.52599	0.2080481	0.23884029	2.5727504	21	10 6.7	19.8
89543 2001 XT_{90}	15.7	X	180.10491	294.66317	40.42019	6.13418	0.0897246	0.21570170	2.7535967	21	1 27.9	19.9
89544 2001 XW_{91}	16.7	X	280.51879	271.38549	59.63865	6.63960	0.1347984	0.27997408	2.3141464	21	4 29.5	19.6
89545 2001 XM_{92}	15.2	X	186.50210	59.77058	247.55141	5.98959	0.1096718	0.21254066	2.7808316	21	—	—
89546 2001 XU_{92}	15.3	X	75.27163	353.70727	1.54342	1.70805	0.0787286	0.20307627	2.8665747	21	—	—
89547 2001 XY_{92}	16.0	X	211.04595	77.37551	262.13350	7.03150	0.1345450	0.27101566	2.3648656	21	2 21.5	19.8
89548 2001 XR_{97}	15.5	X	261.27648	91.98601	16.79129	3.25319	0.0896408	0.24116589	2.5561841	21	10 18.7	18.7
89549 2001 XS_{97}	15.1	X	262.49820	56.85995	312.24763	2.33552	0.2306470	0.23142463	2.6274210	21	5 18.8	19.1
89550 2001 XU_{97}	14.7	X	116.44512	223.24191	269.80244	11.55716	0.1280319	0.22344290	2.6896247	21	6 6.9	18.5
89551 2001 XX_{97}	15.1	X	15.19290	70.22075	4.36770	2.38595	0.1525943	0.25314581	2.4748880	21	—	—
89552 2001 XA_{98}	15.8	X	201.02547	339.28088	59.31787	1.48590	0.2132336	0.27577744	2.3375642	21	5 1.3	19.6
89553 2001 XE_{98}	15.9	X	215.08165	322.24511	61.76375	3.86498	0.2356859	0.27622012	2.3350661	21	4 24.8	19.9
89554 2001 XF_{98}	15.5	X	344.57010	27.88939	10.69803	2.40055	0.1586999	0.24446026	2.5331673	21	11 28.8	17.9
89555 2001 XN_{98}	15.5	X	135.15921	88.33430	279.77006	6.34865	0.1316078	0.26243856	2.4161151	21	1 12.7	18.6
89556 2001 XS_{98}	15.9	X	244.29369	84.86243	295.29033	1.80109	0.1850501	0.27994732	2.3142939	21	5 17.3	19.2
89557 2001 XY_{98}	15.7	X	319.43274	277.50904	92.19646	6.78061	0.1579955	0.28691940	2.2766492	21	9 2.3	17.6
89558 2001 XR_{99}	15.6	X	336.18447	291.31195	80.33913	4.07652	0.0844808	0.23794694	2.5791858	21	10 4.1	18.4
89559 2001 XT_{99}	15.4	X	311.18504	144.44924	286.37352	10.88430	0.0650802	0.24223013	2.5486915	21	11 11.3	18.7
89560 2001 XB_{100}	15.0	X	91.74217	57.77284	328.42955	2.92213	0.1677509	0.25720595	2.4487740	21	—	—
89561 2001 XK_{100}	15.7	X	115.57938	116.69117	288.74095	5.90431	0.1536322	0.26244731	2.4160614	21	2 7.7	18.6
89562 2001 XN_{100}	13.8	X	127.89929	225.95352	285.50302	25.01428	0.1489340	0.17363838	3.1820394	21	7 13.9	18.9
89563 2001 XY_{101}	15.6	X	298.96908	275.73545	72.70681	6.65303	0.1283574	0.28147842	2.3058938	21	6 20.4	18.1
89564 2001 XJ_{103}	16.2	X	282.58737	278.03450	86.88975	7.78871	0.2103938	0.28334242	2.2957697	21	6 6.7	18.9
89565 2001 XW_{103}	15.4	X	52.04188	219.24974	105.66248	14.50680	0.3241594	0.24308987	2.5426786	21	12 25.2	19.3
89566 2001 XZ_{103}	15.6	X	298.84356	50.18749	310.28145	2.60583	0.2867928	0.28546548	2.2843728	21	6 9.7	18.1
89567 2001 XM_{113}	15.7	X	224.56366	202.31803	108.01130	6.89583	0.1121429	0.26680741	2.3896674	21	2 3.3	19.3
89568 2001 XA_{115}	15.2	X	134.68369	7.60356	347.55876	4.20863	0.2092727	0.26013458	2.4303603	21	1 7.9	18.4
89569 2001 XB_{115}	15.6	X	207.68387	354.43327	1.69225	5.63256	0.2365928	0.27092276	2.3654061	21	3 15.5	19.7
89570 2001 XA_{116}	15.4	X	185.38574	8.44525	348.30305	4.84902	0.1404685	0.26495771	2.4007762	21	2 23.3	19.1
89571 2001 XW_{116}	15.8	X	213.01211	329.14132	14.40203	4.18598	0.1756185	0.26881144	2.3777757	21	3 5.4	19.7
89572 2001 XX_{117}	15.2	X	301.98776	78.00987	325.14291	6.71814	0.2049114	0.23714838	2.5849725	21	9 1.0	18.0
89573 2001 XD_{118}	15.6	X	208.31777	358.74227	32.49340	4.15174	0.1986419	0.27332460	2.3515285	21	4 28.1	19.3
89574 2001 XG_{118}	14.8	X	308.09315	294.54473	87.23627	12.60963	0.1763526	0.23460302	2.6036363	21	8 22.2	17.8
89575 2001 XD_{119}	14.9	X	1.49568	267.84441	94.92062	13.68914	0.1917755	0.23968971	2.5666686	21	11 17.4	17.6
89576 2001 XP_{119}	15.1	X	185.68132	316.57591	107.71867	10.58972	0.2105931	0.22002696	2.7173909	21	5 25.3	19.9
89577 2001 XW_{120}	15.7	X	253.69474	22.17661	235.40576	4.39201	0.2032925	0.26623268	2.3931053	21	—	—
89578 2001 XV_{122}	15.6	X	195.68076	223.31467	209.92976	3.48155	0.1341076	0.17940362	3.1134979	21	6 13.6	20.6
89579 2001 XE_{127}	15.4	X	19.67237	74.44029	213.74101	3.81933	0.2199044	0.23748423	2.5825349	21	8 31.4	17.8
89580 2001 XC_{128}	15.6	X	115.62038	112.72199	176.44691	1.82551	0.0859641	0.19923762	2.9032771	21	12 14.1	19.9
89581 2001 XS_{133}	16.1	X	263.41768	177.87583	129.53440	2.86445	0.1017299	0.27229929	2.3574277	21	3 12.6	19.3
89582 2001 XB_{134}	14.8	X	122.08562	155.06916	78.16200	19.56444	0.1428592	0.23994992	2.5648126	21	10 30.8	19.1
89583 2001 XO_{134}	15.2	X	83.55378	137.81602	82.84157	2.15607	0.0637139	0.18200568	3.0837518	21	8 11.7	19.5
89584 2001 XW_{136}	15.9	X	144.69790	75.66291	240.47903	1.59455	0.2011150	0.25807028	2.4433033	21	—	—
89585 2001 XN_{138}	16.5	X	247.88687	162.46560	157.74622	2.49099	0.2196247	0.27349594	2.3505462	21	3 3.7	20.4
89586 2001 XP_{138}	16.0	X	196.33290	179.05178	215.17606	3.14049	0.1663675	0.27504743	2.3416985	21	4 21.3	19.6
89587 2001 XN_{139}	15.5	X	273.11371	99.69795	219.78870	1.52354	0.1981498	0.22600066	2.6692929	21	4 1.0	19.5
89588 2001 XZ_{139}	15.7	X	248.77172	49.76822	255.20357	6.32917	0.1283489	0.26944168	2.3740664	21	2 16.0	19.3
89589 2001 XD_{141}	15.3	X	71.30517	243.77357	86.69199	3.16335	0.0785718	0.19907516	2.9048563	21	12 14.8	19.3
89590 2001 XE_{141}	15.2	X	99.17280	44.21918	236.17670	8.06252	0.0467852	0.19522476	2.9429267	21	11 11.4	19.5
89591 2001 XX_{144}	16.5	X	209.78084	156.55530	196.08111	2.54770	0.0868146	0.27042022	2.3683357	21	3 11.7	19.8
89592 2001 XC_{146}	16.1	X	154.35953	220.98089	113.86556	3.59679	0.1825260	0.26156127	2.4215146	21	—	—
89593 2001 XC_{147}	14.8	X	356.78356	205.77099	88.12986	11.64428	0.1779090	0.18243046	3.0789631	21	7 14.6	18.1
89594 2001 XS_{147}	16.1	X	257.49871	245.04435	102.18171	5.27871	0.1146244	0.27669659	2.3323847	21	4 27.5	19.3
89595 2001 XC_{148}	14.4	X	359.82403	273.98943	95.62880	12.79655	0.0925117	0.19286298	2.9669038	21	11 4.5	18.3
89596 2001 XS_{152}	16.5	X	176.41400	240.79426	159.72029	2.26772	0.2022819	0.27285012	2.3542538	21	4 13.2	20.3
89597 2001 XJ_{159}	15.4	X	117.04002	221.93864	107.40859	7.35965	0.1396361	0.25332527	2.4737191	21	—	—
89598 2001 XU_{159}	16.5	X	186.97099	218.51745	149.81256	1.60012	0.1999525	0.26960323	2.3731179	21	3 12.9	20.3
89599 2001 XW_{161}	16.9	X	221.39023	222.60418	128.16952	3.00149	0.2324819	0.27393092	2.3480572	21	3 20.2	20.8
89600 2001 XF_{166}	16.5	X	318.73966	197.12854	138.37814	2.90788	0.1912976	0.28414738	2.2914318	21	6 24.9	18.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
89601 2001 XV_{168}	15.8	X	167.42557	274.95468	92.33560	6.13003	0.2352711	0.26763466	2.3847406	21	2 27.5	19.7
89602 2001 XA_{169}	15.5	X	55.13366	70.39081	82.92471	3.70117	0.0154493	0.21808295	2.7335157	21	3 30.8	19.1
89603 2001 XH_{169}	15.7	X	245.18207	96.66533	231.34130	3.40251	0.1398909	0.27126955	2.3633898	21	3 14.1	19.3
89604 2001 XM_{170}	16.5	X	231.24114	216.22450	144.50810	2.81695	0.1835387	0.27582730	2.3372825	21	4 11.4	20.1
89605 2001 XT_{172}	14.4	X	91.96327	315.71606	265.80882	15.64321	0.1669561	0.17910021	3.1170132	21	8 27.5	19.4
89606 2001 XF_{173}	16.0	X	242.49475	226.90723	126.85949	3.38853	0.2371079	0.27556246	2.3387799	21	4 10.1	19.8
89607 2001 XC_{176}	16.0	X	213.51535	180.12613	153.80417	2.83940	0.1885915	0.26699236	2.3885637	21	2 21.1	19.9
89608 2001 XH_{178}	15.8	X	138.53310	137.49489	223.99395	1.37972	0.1816234	0.26045964	2.4283377	21	1 15.6	19.2
89609 2001 XN_{179}	16.3	X	268.34904	241.42531	107.82823	6.88384	0.1326368	0.27616202	2.3353936	21	5 11.3	19.5
89610 2001 XR_{181}	15.6	X	353.90851	173.59414	112.71474	13.64124	0.0631208	0.22634605	2.6665768	21	6 30.2	18.8
89611 2001 XR_{182}	16.0	X	138.24808	188.15066	216.91247	0.71606	0.1729786	0.26575924	2.3959466	21	3 10.2	19.3
89612 2001 XV_{183}	15.6	X	152.74515	232.21238	131.14116	7.18598	0.1539040	0.26154209	2.4216330	21	1 30.4	19.0
89613 2001 XM_{185}	16.3	X	102.70429	185.56586	181.88816	2.62851	0.2056700	0.25733078	2.4479820	21	—	—
89614 2001 XZ_{185}	15.8	X	124.28843	90.12926	259.09477	6.01512	0.1262598	0.25640754	2.4538548	21	—	—
89615 2001 XW_{187}	15.8	X	41.09130	190.04787	162.78638	1.79675	0.1883857	0.24526789	2.5276033	21	12 30.9	19.2
89616 2001 XH_{189}	16.2	X	148.44803	169.52790	174.59378	2.59251	0.1974420	0.25934903	2.4352654	21	1 6.8	19.6
89617 2001 XG_{191}	15.8	X	284.59783	308.43675	127.67938	2.98789	0.1895633	0.23851067	2.5751202	21	9 23.8	18.6
89618 2001 XB_{192}	16.2	X	160.64056	134.83302	210.70166	1.79264	0.2186238	0.26031425	2.4292419	21	1 22.5	20.0
89619 2001 XE_{192}	16.4	X	234.79677	240.10840	125.13640	5.76567	0.2311897	0.27439572	2.3454049	21	4 19.5	20.3
89620 2001 XM_{193}	15.7	X	242.04693	248.37118	145.02564	5.12543	0.1989578	0.27871868	2.3210901	21	6 1.9	19.3
89621 2001 XR_{194}	14.2	X	338.79094	229.68748	119.02598	16.77649	0.1425089	0.18275590	3.0753068	21	8 30.1	17.9
89622 2001 XH_{195}	16.2	X	116.32639	262.48028	126.43640	1.15857	0.2164648	0.26037802	2.4288452	21	1 29.4	19.1
89623 2001 XW_{196}	14.2	X	87.10300	313.68399	291.82059	15.38287	0.1609116	0.17952689	3.1120726	21	9 19.4	19.2
89624 2001 XR_{197}	14.1	X	245.49188	228.18228	130.53534	22.52013	0.1102181	0.17034781	3.2228865	21	5 12.9	19.4
89625 2001 XF_{198}	15.4	X	153.17894	223.43770	131.24031	3.41625	0.2241628	0.26122773	2.4235754	21	1 27.5	18.9
89626 2001 XS_{199}	14.8	X	155.99616	92.35698	118.23817	16.66785	0.0957921	0.18544268	3.0455303	21	10 28.0	19.8
89627 2001 XC_{201}	16.0	X	204.14072	16.13990	347.92393	1.61394	0.2378009	0.27109679	2.3643937	21	3 21.8	20.0
89628 2001 XV_{205}	16.0	X	325.64848	170.08825	146.22746	3.51313	0.1766960	0.28353850	2.2947112	21	6 10.5	18.0
89629 2001 XJ_{206}	16.0	X	276.78065	244.21493	139.84934	6.58625	0.1157931	0.28383866	2.2930931	21	7 11.5	18.8
89630 2001 XX_{206}	15.7	X	260.58158	174.21819	122.12331	5.69983	0.2545960	0.27156622	2.3616682	21	2 11.9	19.7
89631 2001 XG_{208}	14.8	X	357.82528	225.42840	106.62619	12.30606	0.0972784	0.18747364	3.0234950	21	9 11.9	18.7
89632 2001 XO_{208}	15.2	X	179.48849	200.69169	165.36954	3.21254	0.0984511	0.26810555	2.3819475	21	2 25.2	18.3
89633 2001 XM_{210}	15.6	X	322.90717	239.11301	123.32983	5.40725	0.2753544	0.23937330	2.5689299	21	8 3.0	17.7
89634 2001 XO_{211}	15.7	X	167.21228	166.38510	199.69692	5.42238	0.1767198	0.26641963	2.3919856	21	2 17.3	19.3
89635 2001 XK_{213}	15.1	X	335.61175	179.61118	226.60069	5.74356	0.1780698	0.24289425	2.5440437	21	11 23.2	17.1
89636 2001 XR_{213}	15.0	X	263.98641	217.17720	154.25712	6.64130	0.3449983	0.23045950	2.6347514	21	5 14.4	19.5
89637 2001 XA_{214}	15.1	X	247.13874	297.41433	113.66711	14.41127	0.0730266	0.23029946	2.6359719	21	7 15.7	18.5
89638 2001 XP_{214}	14.5	X	229.81228	287.55152	119.31880	16.65656	0.1229927	0.17739579	3.1369469	21	6 16.9	19.5
89639 2001 XD_{219}	15.9	X	197.01904	281.94003	351.87673	0.93267	0.1606859	0.26029367	2.4293699	21	—	—
89640 2001 XP_{221}	16.3	X	203.86237	357.64414	302.01651	2.24438	0.1434107	0.26545175	2.3977965	21	1 1.0	19.9
89641 2001 XD_{222}	16.1	X	220.24134	303.71754	343.68416	2.23005	0.1201306	0.26457552	2.4030877	21	1 1.2	19.7
89642 2001 XJ_{223}	16.0	X	165.43515	214.84689	145.90733	7.38315	0.1151099	0.26790907	2.3831119	21	2 4.3	19.4
89643 2001 XA_{225}	16.4	X	339.62230	16.64807	301.06338	3.43346	0.1826580	0.28623633	2.2802697	21	7 14.7	18.0
89644 2001 XQ_{227}	16.3	X	197.13141	270.64973	63.63909	5.82910	0.1786021	0.26840928	2.3801502	21	2 9.3	20.1
89645 2001 XX_{229}	14.7	X	306.87447	212.16048	68.15076	5.67787	0.0863689	0.17342013	3.1847087	21	4 15.5	19.1
89646 2001 XC_{231}	15.6	X	152.71190	262.34068	313.57389	3.10742	0.1228489	0.24139374	2.5545753	21	10 28.9	19.6
89647 2001 XS_{231}	15.5	X	2.82542	248.90054	312.13431	4.00519	0.0482718	0.21887442	2.7269220	21	3 17.0	18.8
89648 2001 XT_{238}	15.1	X	255.69665	167.79467	278.69558	5.16268	0.0891811	0.23656022	2.5892555	21	9 8.0	18.6
89649 2001 XA_{241}	16.2	X	181.73892	310.44231	64.12547	4.22539	0.2454093	0.26997326	2.3709490	21	3 19.8	20.2
89650 2001 XT_{241}	14.7	X	38.81289	179.22364	69.40881	6.04254	0.1898807	0.18128036	3.0919719	21	8 4.9	18.4
89651 2001 XX_{245}	15.0	X	10.20527	228.44889	24.46889	0.62884	0.0869884	0.17807739	3.1289373	21	6 10.9	18.9
89652 2001 XO_{249}	15.2	X	109.09099	146.30380	88.31515	5.49713	0.1926214	0.23906652	2.5711271	21	10 17.7	19.3
89653 2001 XS_{249}	15.6	X	25.86737	123.92775	115.61438	3.47927	0.0356035	0.22794615	2.6540833	21	6 13.2	19.0
89654 2001 XL_{250}	15.3	X	148.65008	326.50294	110.66304	5.39151	0.0554418	0.22107697	2.7087799	21	4 27.2	19.1
89655 2001 XA_{251}	14.9	X	282.64245	229.81655	90.68184	4.02114	0.1100923	0.17513055	3.1639391	21	4 30.7	19.4
89656 2001 XH_{257}	15.3	X	348.03380	107.13713	183.60290	14.32131	0.1553257	0.23215038	2.6219422	21	6 21.2	18.3
89657 2001 XO_{259}	14.9	X	22.43183	169.26874	143.90768	4.89101	0.0350887	0.19042269	2.9921975	21	9 15.8	18.8
89658 2001 XX_{261}	16.7	X	336.95046	171.49453	143.70194	4.57020	0.1821446	0.28637261	2.2795462	21	7 2.9	18.4
89659 2001 XW_{263}	15.5	X	223.39882	213.17305	73.82413	6.64826	0.0887327	0.21493217	2.7601653	21	1 13.0	19.7
89660 2001 YC_{3}	15.5	X	26.95021	47.64662	297.73962	5.74295	0.2048220	0.29485590	2.2356106	21	12 16.5	18.0
89661 2001 YD_{3}	15.7	X	74.36882	6.36784	327.27411	3.74208	0.2027700	0.29935160	2.2131711	21	—	—
89662 2001 YF_{4}	13.8	X	176.26838	326.01947	117.74044	37.26443	0.2222576	0.21971120	2.7199938	21	6 16.9	18.9
89663 2001 YN_{5}	15.4	X	267.39964	221.18793	130.71275	12.59414	0.1918417	0.23075713	2.6324854	21	5 11.6	19.6
89664 Pignata	15.0	X	221.27271	182.32318	147.56551	11.03421	0.1291814	0.22013691	2.7164860	21	3 2.1	19.2
89665 2001 YO_{6}	14.9	X	168.61204	180.33675	176.40102	9.55956	0.1759664	0.21684377	2.7439198	21	2 13.6	19.5
89666 2001 YO_{10}	14.6	X	275.24918	232.83862	96.83272	16.86942	0.0295239	0.17145586	3.2089860	21	5 18.4	19.3
89667 2001 YK_{11}	15.0	X	238.09447	20.62960	289.36020	7.84850	0.1309926	0.21203448	2.7852556	21	2 19.3	19.5
89668 2001 YE_{13}	15.8	X	60.25998	152.86736	74.56079	4.82757	0.0935963	0.23081005	2.6320830	21	7 26.7	19.0
89669 2001 YK_{14}	16.2	X	197.04085	187.58657	80.88254	5.47372	0.1664716	0.25809992	2.4431163	21	—	—
89670 2001 YN_{17}	14.7	X	245.07171	247.93926	87.34433	13.72228	0.1907740	0.22305131	2.6927717	21	4 2.5	19.3
89671 2001 YA_{24}	15.8	X	65.71069	196.74446	55.38849	8.72418	0.1390082	0.23593782	2.5938071	21	9 18.2	19.3
89672 2001 YG_{26}	14.7	X	116.23450	185.01182	68.46841	11.23209	0.0670444	0.19295664	2.9659436	21	11 2.6	19.1
89673 2001 YW_{27}	15.5	X	46.76704	235.50719	72.21475	5.94751	0.1864560	0.24210555	2.5495658	21	11 10.4	18.8
89674 2001 YP_{37}	15.5	X	339.34912	47.88632	279.36964	1.89277	0.2169091	0.23680428	2.5874761	21	7 25.1	17.3
89675 2001 YS_{41}	16.2	X	215.95356	11.19019	32.21434	3.16952	0.2353556	0.27801830	2.3249866	21	5 18.7	20.0
89676 2001 YA_{46}	16.4	X	278.11734	274.49585	76.52593	5.33163	0.1864691	0.28099886	2.3085167	21	5 16.4	19.3
89677 2001 YC_{46}	15.9	X	173.41401	295.82859	17.13328	2.19013	0.2150126	0.26077312	2.4263912	21	—	—
89678 2001 YV_{46}	16.0	X	160.58788	304.49962	61.03504	6.97614	0.1346627	0.26552923	2.3973300	21	2 10.8	19.5
89679 2001 YW_{47}	14.1	X	284.79761	304.73575	78.51647	10.97465	0.1403552	0.18408272	3.0605116	21	7 17.8	18.3
89680 2001 YY_{47}	15.7	X	254.73005	32.11537	280.04234	3.60967	0.1889405	0.27156051	2.3617013	21	2 27.9	19.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
89681 2001 YA_{48}	15.2	X	37.68128	72.63054	74.00583	3.36499	0.0182435	0.21532428	2.7568134	21	2 27.2	18.8
89682 2001 YF_{48}	16.0	X	156.86492	55.38546	294.72722	1.93200	0.2012584	0.26384947	2.4074941	21	1 22.7	19.6
89683 2001 YK_{48}	16.2	X	263.61404	6.64488	312.43139	2.07718	0.1971869	0.27413211	2.3469082	21	3 16.9	19.9
89684 2001 YY_{53}	14.8	X	21.29923	247.71126	83.77382	7.27572	0.2457667	0.24236942	2.5477149	21	11 15.5	17.5
89685 2001 YB_{57}	15.5	X	29.24956	156.47659	30.04281	4.03198	0.0179727	0.21802546	2.7339962	21	4 7.0	18.9
89686 2001 YM_{57}	15.6	X	97.10576	324.54532	52.49507	6.15489	0.0763012	0.25735592	2.4478226	21	—	—
89687 2001 YX_{62}	14.6	X	244.90966	324.23222	77.77663	11.90056	0.1112349	0.17950982	3.1122698	21	6 26.1	19.2
89688 2001 YK_{68}	14.7	X	101.73838	159.39202	58.95808	4.56778	0.1176628	0.18039018	3.1021357	21	9 8.1	19.3
89689 2001 YT_{68}	15.6	X	142.32497	318.58539	40.57033	2.61714	0.1856421	0.26116588	2.4239580	21	1 18.3	18.9
89690 2001 YA_{70}	14.8	X	311.55069	299.05026	66.92502	6.61224	0.1545518	0.18394987	3.0619850	21	8 2.7	18.6
89691 2001 YC_{70}	15.9	X	230.97353	30.67108	325.49381	4.32922	0.1676617	0.27288410	2.3540584	21	4 3.2	19.7
89692 2001 YP_{70}	16.5	X	2.78872	15.92421	348.85655	1.51666	0.1631014	0.29254565	2.2473651	21	11 27.5	18.5
89693 2001 YF_{72}	16.0	X	344.35093	7.21508	332.39115	3.64608	0.1316541	0.28529500	2.2852827	21	9 4.4	17.6
89694 2001 YS_{74}	15.4	X	343.91947	267.77620	71.13761	8.08185	0.2173289	0.23749795	2.5824354	21	8 31.9	17.6
89695 2001 YU_{74}	16.5	X	189.40078	4.67228	344.37993	1.99530	0.2076692	0.26770791	2.3843056	21	2 19.8	20.3
89696 2001 YD_{75}	15.9	X	331.40384	304.57172	23.77795	2.82636	0.2041697	0.28391747	2.2926687	21	7 10.4	17.5
89697 2001 YA_{78}	16.2	X	182.16096	299.10852	91.59099	3.11766	0.2207222	0.27191196	2.3596659	21	4 7.4	20.0
89698 2001 YB_{78}	14.4	X	242.43891	275.59280	80.92781	15.42551	0.1124129	0.17335177	3.1855458	21	5 3.8	19.4
89699 2001 YU_{79}	15.3	X	24.10533	322.33088	13.31776	2.57385	0.1615300	0.29025374	2.2591800	21	11 19.6	17.7
89700 2001 YA_{84}	15.9	X	168.48331	319.14854	50.39628	1.62926	0.2289372	0.26599184	2.3945496	21	3 1.1	19.7
89701 2001 YK_{85}	15.5	X	98.03678	14.61754	87.62484	6.58143	0.0242802	0.21472577	2.7619339	21	3 24.6	19.3
89702 2001 YG_{86}	15.2	X	187.33075	342.98001	84.33337	5.76944	0.0856492	0.22320970	2.6914976	21	5 28.2	19.1
89703 2001 YF_{87}	15.6	X	220.71778	17.76493	326.92219	5.93981	0.2616240	0.26959176	2.3731853	21	3 9.8	19.7
89704 2001 YR_{89}	16.7	X	183.38673	301.31394	71.26761	4.79244	0.2557764	0.26882300	2.3777075	21	3 19.6	20.8
89705 2001 YY_{93}	14.3	X	2.28974	343.04655	42.01554	15.90087	0.1206069	0.24340124	2.5405097	21	12 4.5	17.3
89706 2001 YX_{98}	15.6	X	321.54347	147.31342	90.77964	10.24461	0.0431334	0.21794518	2.7346675	21	3 15.8	19.4
89707 2001 YT_{99}	16.2	X	151.92864	127.08683	227.89623	2.92824	0.1291454	0.26260097	2.4151188	21	1 15.1	19.6
89708 2001 YB_{105}	15.6	X	140.28343	246.80039	173.18381	2.56373	0.0677928	0.21600110	2.7510516	21	3 25.9	19.6
89709 2001 YK_{106}	16.0	X	169.66002	210.51376	140.04788	5.86169	0.2992593	0.26415572	2.4056330	21	2 11.2	20.1
89710 2001 YZ_{107}	15.4	X	163.62056	300.11008	120.15191	8.11500	0.1101462	0.21854437	2.7296668	21	4 28.1	19.7
89711 2001 YE_{110}	14.9	X	137.74260	197.36932	294.34437	11.96033	0.1301197	0.22279816	2.6948110	21	6 29.8	19.0
89712 2001 YV_{111}	16.1	X	301.90799	359.97326	29.07478	5.71876	0.1957552	0.28663998	2.2781284	21	8 20.7	18.1
89713 2001 YB_{113}	14.7	X	176.36361	46.08808	105.69457	22.49040	0.1107071	0.23783682	2.5799819	21	9 10.7	19.0
89714 2001 YA_{114}	14.5	X	247.15965	219.60972	292.89553	9.24441	0.0440413	0.18826502	3.0150160	21	11 22.2	18.8
89715 2001 YC_{115}	15.5	X	128.90694	279.15573	96.74434	3.28874	0.3122859	0.21312591	2.7757385	21	2 16.5	19.8
89716 2001 YD_{115}	15.7	X	342.04323	61.70315	308.11575	12.46198	0.0810582	0.23860368	2.5744510	21	10 1.3	19.0
89717 2001 YE_{116}	14.5	X	197.06855	100.45939	105.33765	12.67082	0.0936427	0.18948586	3.0020518	21	11 28.1	19.2
89718 2001 YK_{121}	15.6	X	227.58130	350.45848	318.78959	6.43893	0.1423203	0.26892607	2.3771000	21	2 3.5	19.3
89719 2001 YZ_{121}	14.8	X	125.95899	186.54471	283.40506	10.69152	0.1445478	0.22306391	2.6926703	21	5 18.9	18.9
89720 2001 YQ_{122}	15.3	X	273.36823	11.18982	301.93532	7.60818	0.1419436	0.27507805	2.3415248	21	3 21.6	18.7
89721 2001 YS_{123}	15.4	X	310.79033	95.98887	342.30049	4.26694	0.0462404	0.24494752	2.5298068	21	11 23.9	18.4
89722 2001 YY_{126}	14.1	X	323.13417	5.17260	297.15950	15.36974	0.1667561	0.17757608	3.1348233	21	5 21.3	18.3
89723 2001 YP_{130}	15.9	X	287.62909	301.05992	41.82165	5.54580	0.1695196	0.27844111	2.3226324	21	5 18.6	18.7
89724 2001 YR_{130}	16.1	X	112.38713	345.00006	37.30963	5.16806	0.1922231	0.25969074	2.4331286	21	1 12.5	19.0
89725 2001 YB_{132}	15.1	X	8.02987	152.90268	73.72385	14.47461	0.0838638	0.22137551	2.7063440	21	5 3.7	18.4
89726 2001 YA_{134}	15.1	X	3.41517	293.42530	21.18165	5.58991	0.2097730	0.23842219	2.5757573	21	9 8.1	17.2
89727 2001 YB_{135}	15.4	X	63.29380	271.41092	38.32361	0.69534	0.1181286	0.19526158	2.9425567	21	11 14.8	19.4
89728 2001 YC_{136}	14.6	X	139.17488	189.33439	307.26864	13.07730	0.1167682	0.22948289	2.6422212	21	7 7.4	18.6
89729 2001 YQ_{136}	15.0	X	35.35337	268.19615	10.72617	8.13520	0.1897404	0.28671383	2.2777372	21	9 21.3	17.2
89730 2001 YK_{137}	15.9	X	328.27131	319.93941	30.78046	6.88734	0.2024665	0.28626911	2.2800956	21	8 16.3	17.5
89731 2001 YE_{141}	16.2	X	193.57395	139.77591	214.39212	5.66073	0.1372909	0.26972888	2.3723809	21	2 24.5	20.0
89732 2001 YE_{146}	16.3	X	259.96083	21.35937	309.62676	1.64292	0.2439599	0.27684473	2.3315526	21	3 24.6	20.1
89733 2001 YD_{149}	14.1	X	289.87827	258.86223	69.33480	23.06837	0.1537249	0.17736946	3.1372574	21	5 15.5	18.6
89734 2002 AH	15.1	X	11.73296	341.55379	73.44795	5.48864	0.1438882	0.24812918	2.5081345	21	—	—
89735 Tommei	14.5	X	143.05689	114.00992	95.71896	6.61476	0.1238450	0.18375786	3.0641176	21	10 10.9	19.4
89736 2002 AC_{1}	15.3	X	107.08417	341.27819	6.65880	6.63301	0.1572987	0.25509957	2.4622354	21	—	—
89737 2002 AW_{3}	14.6	X	215.25671	34.54806	120.09056	10.28390	0.0523077	0.18574755	3.0421968	21	10 22.9	19.2
89738 2002 AO_{5}	15.1	X	5.18797	299.48449	81.25253	5.20800	0.2323766	0.24244108	2.5472129	21	12 22.6	17.4
89739 Rampazzi	15.3	X	346.46115	230.74742	153.22583	14.25531	0.0404363	0.23776659	2.5804899	21	11 7.7	18.8
89740 2002 AB_{9}	15.0	X	189.16122	14.58381	156.61290	12.00425	0.0918285	0.18362722	3.0655708	21	10 9.6	19.8
89741 2002 AV_{9}	14.5	X	257.53123	42.79215	119.80511	12.41116	0.0763115	0.19304431	2.9650456	21	12 16.4	18.6
89742 2002 AW_{16}	14.4	X	72.03020	77.33819	119.92576	14.91102	0.1767642	0.17087527	3.2162508	21	7 13.4	18.9
89743 2002 AD_{17}	14.7	X	147.93410	331.85376	264.49410	9.11744	0.0703241	0.18983483	2.9983716	21	11 11.1	19.4
89744 2002 AG_{18}	15.3	X	42.82226	33.50304	115.72624	13.48841	0.0807077	0.21675006	2.7447107	21	3 16.1	18.8
89745 2002 AT_{19}	14.2	X	71.49670	160.88040	60.34078	6.71358	0.1114753	0.17611795	3.1521023	21	8 5.2	18.6
89746 2002 AG_{20}	15.6	X	184.75482	246.02326	142.62316	10.82966	0.2115909	0.27039606	2.3684769	21	4 9.1	19.6
89747 2002 AR_{20}	15.7	X	142.21850	188.16610	216.19709	5.50415	0.1210489	0.26422777	2.4051956	21	3 5.9	19.1
89748 2002 AS_{21}	15.0	X	166.47812	256.31743	126.17915	10.11621	0.2736850	0.26633143	2.3925137	21	3 20.8	19.2
89749 2002 AT_{23}	15.0	X	358.21647	304.22872	303.15988	8.47131	0.0933283	0.22156432	2.7048063	21	5 8.2	18.3
89750 2002 AB_{24}	15.4	X	46.43655	154.49070	246.99694	5.82515	0.2102022	0.25123003	2.4874538	21	—	—
89751 2002 AM_{26}	15.1	X	215.19086	293.12300	120.85222	15.13940	0.0905696	0.22362443	2.6881689	21	6 12.0	19.3
89752 2002 AX_{32}	15.9	X	206.73519	283.87805	99.50690	5.06878	0.1891450	0.27076711	2.3663126	21	4 19.6	19.7
89753 2002 AO_{34}	14.5	X	136.07076	90.67541	111.56309	10.10128	0.0317949	0.18126801	3.0921124	21	9 20.8	19.1
89754 2002 AT_{36}	16.3	X	186.12521	253.48055	100.24832	4.68191	0.1746408	0.26818653	2.3814680	21	2 22.6	20.1
89755 2002 AJ_{39}	15.9	X	321.58944	261.54994	132.13393	14.39292	0.1475009	0.23783835	2.5799708	21	10 11.2	18.8
89756 2002 AE_{54}	14.6	X	358.55065	39.75167	263.87928	3.48126	0.1986943	0.17997713	3.1068802	21	7 31.2	17.8
89757 2002 AW_{54}	15.3	X	164.87606	22.86012	268.09610	6.93887	0.1291963	0.19975440	2.8982676	21	—	—
89758 2002 AX_{54}	16.8	X	180.06069	61.33506	306.35654	0.49995	0.2004524	0.26677649	2.3898520	21	3 6.0	20.7
89759 2002 AF_{56}	15.7	X	85.45238	197.88719	272.66909	1.16440	0.0300351	0.21261208	2.7802089	21	3 15.6	19.5
89760 2002 AZ_{56}	15.8	X	222.00814	230.87886	132.78891	6.88087	0.0485641	0.21800724	2.7341486	21	4 19.2	19.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
89761 2002 AA_{59}	15.2	X	212.91535	227.17707	148.69906	2.95480	0.2209896	0.27070017	2.3667026	21	4 13.8	19.2
89762 2002 AM_{60}	15.9	X	183.24991	234.49795	153.70904	1.36519	0.1899444	0.26821804	2.3812814	21	4 3.3	19.7
89763 2002 AY_{60}	15.8	X	250.12466	226.82119	166.76892	4.90309	0.1555360	0.27713841	2.3299051	21	6 14.9	19.2
89764 2002 AW_{61}	14.4	X	39.05864	31.95014	313.30081	12.54919	0.1079686	0.23818268	2.5774837	21	12 4.2	17.9
89765 2002 AA_{62}	15.2	X	104.05331	214.12347	144.49026	11.11434	0.1154946	0.19847935	2.9106668	21	—	—
89766 2002 AO_{62}	15.9	X	294.75515	240.64057	147.05075	5.56338	0.2843951	0.28389669	2.2927806	21	7 14.7	18.5
89767 2002 AF_{71}	16.1	X	190.16423	19.71899	315.49143	1.91557	0.2100066	0.26576573	2.3959076	21	2 3.9	20.1
89768 2002 AU_{71}	16.4	X	168.38415	34.45167	324.82723	1.47989	0.2278880	0.26567722	2.3964397	21	2 15.6	20.0
89769 2002 AQ_{73}	16.3	X	289.19358	265.98865	71.33097	0.73824	0.2342444	0.27892476	2.3199467	21	5 3.6	19.4
89770 2002 AX_{81}	14.9	X	222.24131	178.84121	247.13737	7.97181	0.1240001	0.28010085	2.3134481	21	6 29.8	18.2
89771 2002 AD_{82}	14.8	X	328.52070	229.81937	126.76515	15.05132	0.2170722	0.23692937	2.5865653	21	8 17.5	16.9
89772 2002 AT_{82}	15.1	X	273.38914	316.11627	115.36392	15.88746	0.1149847	0.23733105	2.5836460	21	9 17.2	18.6
89773 2002 AJ_{84}	14.1	X	36.66247	112.79217	128.36170	15.46312	0.2652276	0.17256520	3.1952186	21	7 31.3	17.6
89774 2002 AZ_{88}	14.6	X	78.46691	8.79601	262.10316	9.63209	0.1363487	0.18408014	3.0605402	21	10 13.2	19.2
89775 2002 AJ_{90}	15.5	X	316.34825	213.73511	222.32441	5.21515	0.1969755	0.24140501	2.5544958	21	11 24.8	17.5
89776 2002 AL_{90}	14.7	X	180.35975	294.59301	145.99792	20.39230	0.3127593	0.27445056	2.3450924	21	6 10.9	19.4
89777 2002 AR_{90}	14.1	X	164.12658	215.13997	308.67144	20.77470	0.0711290	0.17642994	3.1483851	21	8 25.7	19.0
89778 2002 AK_{94}	15.2	X	354.21259	0.78231	297.63862	12.15487	0.1618626	0.22808729	2.6529883	21	7 16.9	17.5
89779 2002 AO_{97}	15.5	X	120.90668	110.41605	318.39603	5.75814	0.0162003	0.21304033	2.7764818	21	3 5.0	19.4
89780 2002 AY_{100}	15.9	X	205.59763	337.10990	39.32898	3.18394	0.1811805	0.27004015	2.3705575	21	4 8.2	19.6
89781 2002 AT_{105}	16.6	X	281.66745	38.42046	328.24714	0.73262	0.2571086	0.28110543	2.3079332	21	5 31.5	19.6
89782 2002 AM_{108}	14.6	X	30.73899	341.90586	310.72471	13.43609	0.0743553	0.17982554	3.1086260	21	8 29.5	18.8
89783 2002 AT_{109}	14.9	X	79.98596	189.31894	124.51866	12.57508	0.0862872	0.18991332	2.9975454	21	12 6.2	19.4
89784 2002 AZ_{109}	15.5	X	324.06786	272.18885	118.56200	12.93102	0.2021085	0.23799351	2.5788494	21	10 8.9	18.0
89785 2002 AB_{110}	14.7	X	92.79575	336.32255	313.46106	11.24147	0.1661789	0.18732960	3.0250446	21	11 24.8	19.6
89786 2002 AA_{112}	15.5	X	222.99053	321.52697	117.81340	4.60417	0.2027849	0.22944415	2.6425186	21	7 12.8	19.8
89787 2002 AB_{112}	15.8	X	180.41833	50.54103	327.21034	1.44373	0.1931949	0.26639847	2.3921123	21	3 18.2	19.5
89788 2002 AE_{115}	14.5	X	84.08764	125.89574	122.76159	16.53045	0.1827003	0.17871679	3.1214699	21	10 7.9	19.5
89789 2002 AJ_{116}	15.1	X	22.59776	165.56880	129.49166	4.76212	0.0574242	0.17805513	3.1291980	21	8 24.0	19.1
89790 2002 AD_{117}	14.6	X	107.24710	316.48771	323.41469	9.26641	0.1255364	0.18640259	3.0350656	21	11 23.4	19.4
89791 2002 AG_{118}	16.1	X	223.40826	283.77213	116.81998	6.32997	0.2512834	0.27576281	2.3376469	21	5 22.7	20.1
89792 2002 AP_{120}	14.3	X	226.54750	173.07187	317.19783	9.86266	0.0683295	0.18390705	3.0624603	21	9 24.8	18.9
89793 2002 AJ_{121}	14.2	X	44.21176	158.76934	80.36261	2.33065	0.1166061	0.17177475	3.2050133	21	7 19.6	18.2
89794 2002 AB_{125}	13.9	X	50.36914	331.13435	321.51056	16.53222	0.2110152	0.17833325	3.1259438	21	10 10.7	18.5
89795 2002 AO_{126}	15.6	X	195.81963	72.45614	209.53052	1.41516	0.0493915	0.20292518	2.8679974	21	—	—
89796 2002 AT_{130}	14.3	X	37.81561	142.55288	132.22819	6.14485	0.1552008	0.17634070	3.1494473	21	9 1.4	18.2
89797 2002 AW_{133}	15.7	X	289.88669	320.05448	127.35821	3.67991	0.0406779	0.24097595	2.5575271	21	11 8.2	18.9
89798 2002 AK_{137}	15.9	X	179.71523	292.69520	97.10341	6.87390	0.1119446	0.26697557	2.3886638	21	4 2.1	19.5
89799 2002 AS_{144}	15.4	X	229.68028	205.06829	132.13580	13.78131	0.1420290	0.21662620	2.7457567	21	3 21.9	19.9
89800 2002 AW_{148}	14.2	X	244.30489	72.53079	154.09702	13.33427	0.1016173	0.19462918	2.9489273	21	—	—
89801 2002 AM_{151}	15.8	X	139.92462	324.88391	134.93438	4.06238	0.1405056	0.21886618	2.7269904	21	5 23.3	20.0
89802 2002 AC_{155}	15.7	X	178.18631	12.28189	15.61305	3.29518	0.2448614	0.26597077	2.3946761	21	3 31.7	19.7
89803 2002 AD_{155}	14.3	X	62.88122	218.72559	5.45321	4.66519	0.0878905	0.17059170	3.2198140	21	7 23.8	18.7
89804 2002 AO_{157}	14.3	X	341.50978	343.65493	303.20608	5.51344	0.1028420	0.17102186	3.2144126	21	6 9.6	18.3
89805 2002 AM_{159}	14.4	X	292.35862	213.60809	134.40447	28.80111	0.1890676	0.17492783	3.1663830	21	6 10.8	19.3
89806 2002 AL_{160}	14.5	X	336.11404	136.30274	147.64827	13.48977	0.1003238	0.16925408	3.2367559	21	5 31.7	18.9
89807 2002 AY_{160}	15.8	X	124.27199	230.71568	153.36998	8.63549	0.2002076	0.25863540	2.4397429	21	1 30.1	19.0
89808 2002 AC_{162}	14.7	X	338.11536	76.34857	194.22600	0.86753	0.0853394	0.16720426	3.2631559	21	5 15.9	19.0
89809 2002 AM_{166}	14.7	X	133.27380	88.56881	248.90781	1.03422	0.0576518	0.19820403	2.9133616	21	—	—
89810 2002 AF_{170}	16.6	X	223.00380	356.91523	14.38866	2.70550	0.2326110	0.27353319	2.3503328	21	4 14.5	20.6
89811 2002 AH_{176}	14.8	X	46.70052	167.28106	119.67471	9.42995	0.1179776	0.18001539	3.1064400	21	9 28.2	19.0
89812 2002 AK_{178}	14.6	X	179.40701	240.68809	28.48976	2.06256	0.0706975	0.19485517	2.9466469	21	—	—
89813 2002 AR_{181}	14.7	X	189.19022	161.43225	345.10508	12.34239	0.0893770	0.23841836	2.5757848	21	9 10.3	18.5
89814 2002 AX_{181}	14.9	X	76.69679	270.87855	38.98414	11.11387	0.1663342	0.24469113	2.5315737	21	12 12.3	18.8
89815 2002 AB_{186}	14.9	X	95.71926	183.75093	87.18834	8.58165	0.0740043	0.18634090	3.0357354	21	11 1.1	19.4
89816 2002 AN_{187}	15.1	X	69.67684	6.66300	23.99845	10.87320	0.2256710	0.25263589	2.4782171	21	—	—
89817 2002 AB_{189}	15.4	X	19.68215	247.48464	121.48582	8.04822	0.2324655	0.24318650	2.5420051	21	12 30.1	18.4
89818 Jureskvarc	16.0	X	235.33183	333.22673	140.05467	10.66734	0.0278845	0.23941401	2.5686386	21	10 3.3	19.5
89819 2002 BN_{1}	15.1	X	348.94369	256.89674	108.33893	12.18517	0.2271665	0.23659224	2.5890219	21	10 29.9	17.5
89820 2002 BX_{2}	14.9	X	344.67396	5.28894	34.93463	14.40916	0.1425406	0.24186054	2.5512873	21	11 26.6	17.6
89821 2002 BM_{3}	14.4	X	168.95797	152.16909	51.52870	10.14105	0.0832636	0.18652353	3.0337535	21	10 27.4	19.0
89822 2002 BW_{3}	16.2	X	109.04722	28.95923	10.64861	8.75901	0.1823374	0.26074078	2.4265919	21	1 31.6	19.2
89823 2002 BE_{9}	14.8	X	231.55957	139.95784	42.21759	3.18979	0.0260246	0.19092424	2.9869550	21	12 13.6	18.9
89824 2002 BP_{11}	15.6	X	24.27547	79.01424	297.49772	3.37811	0.1815410	0.29436839	2.2380783	21	—	—
89825 2002 BA_{15}	13.9	X	349.96089	250.13655	82.01266	18.01946	0.2835340	0.18061989	3.0995050	21	9 2.2	16.9
89826 2002 BH_{15}	15.0	X	294.47122	293.33739	234.87231	1.08401	0.0159694	0.19846056	2.9108505	21	—	—
89827 2002 BE_{22}	15.6	X	181.07377	2.91247	4.42815	7.81156	0.2535687	0.26632612	2.3925455	21	3 10.4	19.6
89828 2002 BY_{28}	13.6	X	6.90915	210.11331	140.61823	28.12900	0.1192709	0.17870166	3.1216460	21	10 25.4	18.1
89829 2002 BQ_{29}	12.0	X	115.61614	203.30072	74.41662	14.34062	0.0519129	0.08263477	5.2202844	21	11 13.7	19.1
89830 2002 CE	15.0	X	218.34714	5.79802	19.89551	43.65200	0.5070578	0.32917911	2.0773733	21	4 14.6	19.6
89831 2002 CW_{4}	13.9	X	198.54654	39.84906	87.52305	23.81148	0.1638283	0.17612517	3.1520161	21	8 27.4	19.4
89832 2002 CQ_{5}	16.4	X	195.10262	190.72665	197.86972	1.72538	0.2282103	0.26944802	2.3740292	21	4 14.2	20.5
89833 2002 CE_{8}	14.7	X	22.79978	189.55056	128.95533	13.04153	0.0597338	0.18007016	3.1058100	21	9 28.1	19.0
89834 2002 CB_{10}	14.8	X	333.06763	307.70718	10.34296	24.61090	0.2459714	0.28236615	2.3010583	21	6 12.3	17.4
89835 2002 CM_{12}	15.2	X	291.26612	164.77114	274.42151	3.57220	0.2443965	0.23749548	2.5824533	21	9 26.4	17.9
89836 2002 CM_{15}	13.1	X	285.53505	357.74755	86.40269	2.37539	0.0165790	0.08592973	5.0859697	21	10 10.7	19.9
89837 2002 CZ_{23}	15.9	X	336.13393	252.35165	170.50232	8.72765	0.1664970	0.24316731	2.5421388	21	12 18.6	18.5
89838 2002 CJ_{31}	14.4	X	69.48423	282.24123	342.27129	15.68196	0.1020642	0.17964847	3.1106683	21	9 19.9	18.9
89839 2002 CE_{32}	14.8	X	48.35486	330.44591	352.76696	9.43218	0.0618547	0.18590470	3.0404823	21	10 31.1	19.1
89840 2002 CV_{37}	15.0	X	155.41569	219.38942	110.91501	3.10139	0.0597029	0.20000949	2.8958028	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
89841 2002 CM_{41}	12.3	X	287.72024	242.93551	203.33482	14.42745	0.0474815	0.08411607	5.1588163	21	10 10.1	19.1
89842 2002 CZ_{48}	14.9	X	46.40846	153.31667	144.68666	4.12173	0.1030454	0.18176087	3.0865202	21	10 7.3	19.0
89843 2002 CT_{58}	15.4	X	54.98878	173.21488	184.52767	10.25904	0.0504836	0.18863342	3.0110892	21	12 22.5	19.8
89844 2002 CP_{64}	12.6	X	148.27050	237.50128	5.94715	19.00998	0.0895418	0.08348660	5.1847149	21	11 2.1	20.0
89845 2002 CQ_{64}	15.0	X	281.97791	306.33310	112.98847	17.99398	0.0662922	0.18018653	3.1044726	21	9 15.1	19.5
89846 2002 CK_{69}	16.4	X	182.49053	261.00881	126.76007	1.92509	0.1995253	0.26802677	2.3824142	21	4 2.9	20.3
89847 2002 CN_{72}	15.3	X	109.84581	240.37105	141.08365	13.34834	0.0775575	0.20312633	2.8661037	21	1 3.3	19.3
89848 2002 CK_{73}	15.6	X	112.28566	2.55777	5.11376	1.49137	0.0792194	0.20123914	2.8839944	21	—	—
89849 2002 CF_{76}	15.5	X	122.39373	331.53941	107.24850	1.79557	0.0452250	0.21225735	2.7833056	21	3 26.3	19.4
89850 2002 CD_{77}	14.6	X	97.44815	99.18336	132.32589	14.11535	0.0702915	0.17752715	3.1353994	21	9 14.7	19.2
89851 2002 CE_{80}	15.4	X	164.61119	261.62946	126.71524	8.03733	0.1108918	0.21148025	2.7901197	21	3 20.6	19.7
89852 2002 CY_{82}	12.9	X	255.92653	67.71522	59.10935	4.15103	0.0546048	0.08388453	5.1683049	21	10 19.9	19.8
89853 2002 CJ_{84}	15.2	X	238.82335	224.95889	154.06187	10.01210	0.0447168	0.21871600	2.7282386	21	5 29.1	19.2
89854 2002 CC_{89}	15.3	X	116.79940	237.46058	120.20871	6.92425	0.0867119	0.19939135	2.9017847	21	—	—
89855 2002 CZ_{92}	14.8	X	95.90624	182.17631	132.89497	11.49856	0.0782416	0.19009754	2.9956085	21	12 22.5	19.3
89856 2002 CE_{93}	15.3	X	72.50360	50.34804	311.76422	1.20219	0.1124600	0.19407501	2.9545383	21	—	—
89857 2002 CL_{95}	14.5	X	239.57098	253.65727	148.61470	4.64949	0.0413347	0.17103955	3.2141910	21	6 28.5	19.1
89858 2002 CK_{96}	12.2	X	39.04048	194.87659	154.09299	10.56420	0.0446507	0.08297852	5.2058572	21	11 7.7	19.0
89859 2002 CS_{117}	14.2	X	69.04074	152.18244	167.73314	11.62561	0.1102265	0.18396325	3.0618365	21	12 2.7	18.8
89860 2002 CL_{120}	15.8	X	141.07390	190.39031	178.70400	4.63592	0.2086548	0.25942241	2.4348061	21	1 30.9	19.3
89861 2002 CF_{124}	15.8	X	346.53785	223.33429	176.07188	6.06052	0.2655868	0.24172439	2.5522453	21	12 16.8	17.8
89862 2002 CM_{125}	14.8	X	9.95475	28.93845	265.70516	1.67995	0.0824553	0.17372783	3.1809471	21	8 4.8	18.7
89863 2002 CV_{126}	15.0	X	333.21077	43.64085	333.17704	10.48490	0.0090413	0.18048393	3.1010613	21	9 24.9	19.3
89864 2002 CH_{128}	14.6	X	109.45359	44.40046	225.94204	2.91425	0.0548708	0.18598007	3.0396608	21	11 10.6	19.1
89865 2002 CP_{129}	15.3	X	189.30810	76.54980	256.56648	1.00971	0.0694857	0.20535995	2.8452836	21	2 2.5	19.6
89866 2002 CW_{130}	15.4	X	332.09461	114.82355	308.10560	8.14526	0.0175545	0.18944684	3.0024639	21	11 22.6	19.6
89867 2002 CP_{139}	15.8	X	341.52713	178.64739	242.64867	5.33277	0.2316861	0.24362337	2.5389652	21	—	—
89868 2002 CO_{141}	14.1	X	64.97136	326.75234	267.22346	6.95456	0.0831153	0.17181941	3.2044578	21	8 4.2	18.5
89869 2002 CB_{142}	14.0	X	64.15148	322.80846	305.89743	14.52713	0.1534586	0.17592662	3.1543872	21	9 20.9	18.7
89870 2002 CS_{142}	16.2	X	284.63063	206.57222	149.52279	5.18006	0.2054406	0.27874745	2.3209304	21	5 29.6	19.2
89871 2002 CU_{143}	12.6	X	264.13583	311.97219	168.19056	10.76223	0.0362107	0.08412124	5.1586049	21	10 25.2	19.5
89872 2002 CZ_{144}	12.3	X	173.21508	281.15168	291.17512	3.58299	0.0422976	0.08190491	5.2512509	21	10 26.9	19.4
89873 2002 CT_{158}	15.4	X	219.92412	264.56952	138.54070	13.53078	0.1765945	0.22205513	2.7008192	21	5 30.1	20.0
89874 2002 CL_{160}	15.5	X	142.18366	343.21708	11.85021	7.03761	0.1536726	0.25808985	2.4431798	21	1 10.1	18.9
89875 2002 CP_{173}	14.6	X	273.22418	330.08817	128.87945	10.11716	0.1005871	0.18435072	3.0575447	21	10 17.3	18.9
89876 2002 CF_{182}	15.1	X	90.29788	310.08486	6.58473	2.86193	0.0962871	0.19119479	2.9841364	21	12 19.7	19.6
89877 2002 CD_{199}	15.5	X	107.50752	269.93808	113.84479	3.07504	0.0829787	0.20242949	2.8726774	21	1 4.1	19.4
89878 2002 CL_{207}	13.1	X	15.61149	302.81244	72.59860	1.74633	0.0496623	0.08505164	5.1209154	21	11 7.1	19.7
89879 2002 CH_{211}	15.5	X	125.02375	270.08214	71.86483	3.03118	0.0888816	0.19890033	2.9065584	21	—	—
89880 2002 CZ_{216}	15.0	X	71.10703	335.28528	80.61480	3.20674	0.0552601	0.19973065	2.8984973	21	—	—
89881 2002 CG_{219}	15.2	X	127.67718	235.58524	147.51715	10.54674	0.1365264	0.20283448	2.8688524	21	2 3.5	19.4
89882 2002 CS_{221}	14.7	X	340.13313	19.80302	2.48794	13.08322	0.1778085	0.23125184	2.6287296	21	10 19.9	17.3
89883 2002 CS_{223}	15.7	X	176.16227	144.27562	115.39977	2.90459	0.0505394	0.19430521	2.9522044	21	—	—
89884 2002 CS_{226}	14.5	X	309.35989	199.19101	152.35462	11.48713	0.2301779	0.17710528	3.1403765	21	6 26.9	18.5
89885 2002 CP_{228}	14.4	X	312.89451	313.16444	290.55704	8.74586	0.1033622	0.15659995	3.4088532	21	3 3.2	19.2
89886 2002 CT_{230}	12.7	X	307.55337	208.05442	224.54251	10.45663	0.0649749	0.08275085	5.2154012	21	10 15.4	19.4
89887 2002 CD_{238}	14.8	X	191.98972	65.62020	305.95486	6.50421	0.2419401	0.21179657	2.7873410	21	3 23.4	19.8
89888 2002 CW_{239}	14.9	X	21.68873	176.41844	176.75987	13.21204	0.1827583	0.23368759	2.6104314	21	12 3.6	18.2
89889 2002 CD_{245}	14.7	X	42.32673	115.99823	174.54904	15.65725	0.0487981	0.17719502	3.1393160	21	9 12.4	19.1
89890 2002 CX_{248}	15.1	X	99.27313	262.21175	133.41643	12.95322	0.0610997	0.20158256	2.8807180	21	1 5.3	19.1
89891 2002 CQ_{256}	14.9	X	44.61958	207.86176	114.31590	9.99800	0.0792452	0.18506450	3.0496779	21	11 3.9	19.2
89892 2002 CE_{257}	14.7	X	30.22484	72.11031	204.80972	1.31846	0.1488942	0.17589278	3.1547919	21	8 20.3	18.5
89893 2002 CX_{265}	16.4	X	312.20972	162.51971	99.22219	2.40566	0.1626160	0.26320185	2.4114417	21	3 4.6	19.4
89894 2002 CO_{272}	15.2	X	297.93852	293.42421	118.63429	13.59404	0.2951303	0.23501001	2.6006295	21	8 25.3	18.0
89895 2002 CY_{274}	14.6	X	261.51876	307.07788	156.05998	16.42461	0.0838161	0.18095212	3.0957100	21	10 8.7	19.0
89896 2002 CG_{275}	14.1	X	143.14541	134.70369	359.14573	15.10937	0.0976290	0.23079676	2.6321840	21	7 8.3	18.3
89897 2002 CC_{279}	15.4	X	201.00412	192.28008	153.69142	6.61841	0.1178824	0.21079410	2.7961711	21	3 2.9	19.8
89898 2002 CY_{279}	13.3	X	303.67692	242.89149	191.60976	0.46672	0.0320593	0.08507424	5.1200084	21	10 17.8	20.0
89899 2002 CT_{291}	14.8	X	302.30932	218.39054	123.58838	3.37338	0.1609940	0.17715189	3.1398255	21	6 14.3	19.0
89900 2002 CJ_{293}	14.4	X	14.76568	149.70330	153.56478	11.03104	0.2254161	0.17410942	3.1762977	21	9 7.6	17.7
89901 2002 CD_{299}	14.9	X	30.01206	147.59420	138.64004	15.34792	0.2115896	0.17460941	3.1702313	21	9 13.7	18.7
89902 2002 CA_{306}	14.6	X	22.68535	151.61030	98.78638	6.46837	0.0868795	0.16958142	3.2325893	21	6 27.6	18.6
89903 Post	14.2	X	255.71744	344.43690	56.34550	5.61949	0.1264942	0.12437977	3.9746865	21	7 5.5	20.0
89904 2002 DO_{5}	14.5	X	75.69741	48.91773	251.96201	8.25200	0.0715717	0.18507431	3.0495701	21	11 9.9	18.9
89905 2002 DN_{7}	15.1	X	276.45516	339.05333	41.31498	13.86124	0.1931330	0.22953957	2.6417862	21	6 22.9	19.0
89906 2002 DQ_{7}	14.2	X	60.10553	246.88694	16.61302	15.62678	0.0990210	0.17839007	3.1252800	21	9 14.6	18.6
89907 2002 DT_{7}	14.5	X	312.88951	359.52747	65.49241	14.81809	0.1507844	0.24070161	2.5594700	21	11 6.8	17.1
89908 2002 DK_{17}	14.1	X	332.91683	46.40914	285.61843	2.34673	0.2836552	0.17047861	3.2212378	21	7 6.6	17.1
89909 Linie	15.2	X	141.93401	27.35869	176.24688	1.59887	0.0947483	0.17836814	3.1255362	21	9 27.8	20.0
89910 2002 ED_{5}	15.4	X	242.10755	212.03044	146.99914	2.07329	0.2298962	0.21512791	2.7584908	21	4 20.1	19.9
89911 2002 ER_{8}	14.6	X	3.16018	314.77530	56.39273	10.54286	0.1304599	0.18358566	3.0660334	21	11 8.6	18.3
89912 2002 EY_{13}	14.5	X	350.16408	59.08131	205.51063	4.91821	0.0628036	0.16838820	3.2478424	21	5 28.0	18.7
89913 2002 EC_{24}	13.0	X	321.86923	244.96967	175.88208	1.62604	0.0845471	0.08214686	5.2409347	21	10 20.1	19.6
89914 2002 EQ_{25}	15.4	X	161.21168	77.83190	187.56016	0.90197	0.2104421	0.18582906	3.0413072	21	12 26.3	20.6
89915 2002 ED_{32}	15.3	X	283.35687	337.48973	18.18204	3.27086	0.1492226	0.22032447	2.7149441	21	6 5.9	18.9
89916 2002 EN_{32}	15.9	X	13.69508	221.00619	77.08028	7.50571	0.1407101	0.27388113	2.3483418	21	9 3.4	18.2
89917 2002 ET_{32}	14.7	X	24.69967	307.37807	8.01109	13.00766	0.0741273	0.17935793	3.1140267	21	9 24.6	18.6
89918 2002 ER_{33}	12.8	X	274.05113	86.27808	37.93972	7.62745	0.0309908	0.08495004	5.1249976	21	11 7.6	19.6
89919 2002 EF_{35}	14.9	X	2.11077	275.01215	153.43448	10.67125	0.0920910	0.19110555	2.9850654	21	—	—
89920 2002 EN_{41}	15.0	X	206.20139	111.94579	241.05565	2.77994	0.1065972	0.21062315	2.7976840	21	3 14.7	19.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
89921 2002 EH_{45}	15.2	X	26.04001	181.59606	178.71076	4.48372	0.2611333	0.23542487	2.5975733	21	12 29.9	18.5
89922 2002 EV_{45}	13.1	X	17.51948	75.41402	311.93035	3.16758	0.0491843	0.08387529	5.1686844	21	11 21.2	19.8
89923 2002 EN_{47}	15.0	X	146.92152	180.91365	216.18105	1.29691	0.0752745	0.20683894	2.8317039	21	3 6.2	19.2
89924 2002 ED_{51}	12.7	X	253.56017	104.36275	20.33389	1.22201	0.0290277	0.08164515	5.2623829	21	10 16.9	19.6
89925 2002 EY_{52}	14.2	X	15.99154	310.24390	0.60355	12.73928	0.1651637	0.17404978	3.1770233	21	9 14.3	17.8
89926 2002 EH_{53}	14.4	X	248.65044	17.81575	336.79575	10.36191	0.2776673	0.21768544	2.7368424	21	4 11.6	19.3
89927 2002 EP_{61}	12.8	X	98.36413	56.93370	228.52264	2.17156	0.0339061	0.08103101	5.2889390	21	10 30.4	19.8
89928 2002 EB_{70}	13.8	X	112.67566	55.17685	197.01921	3.58979	0.1231584	0.12646808	3.9308105	21	10 22.8	19.8
89929 2002 EO_{75}	14.4	X	69.14300	80.26124	271.31154	9.69563	0.1194979	0.19164212	2.9794909	21	—	—
89930 2002 EN_{80}	15.0	X	49.58489	189.66834	164.29511	11.04238	0.1081309	0.18550184	3.0448827	21	12 19.5	19.4
89931 2002 EF_{84}	14.5	X	329.03481	182.62124	154.66058	13.73957	0.1592119	0.17227309	3.1988295	21	7 20.5	18.4
89932 2002 EV_{85}	14.7	X	283.37178	221.51916	165.56666	12.25263	0.1975610	0.22414595	2.6839976	21	7 10.5	18.5
89933 2002 EA_{89}	14.4	X	21.82590	151.57096	172.04979	12.00139	0.0746548	0.17444064	3.1722757	21	9 30.5	18.6
89934 2002 EH_{95}	12.3	X	50.06990	341.34864	5.42930	7.83958	0.0788346	0.08297199	5.2061303	21	11 16.9	19.1
89935 2002 EL_{138}	12.8	X	26.76225	225.97548	143.33416	3.16979	0.0665103	0.08207225	5.2441102	21	11 15.3	19.4
89936 2002 EK_{152}	14.5	X	315.42910	190.56514	281.57627	9.53174	0.0544389	0.19155167	2.9804289	21	—	—
89937 2002 FP_{1}	13.8	X	181.06573	356.17265	115.01662	23.11698	0.0539756	0.17111911	3.2131947	21	7 16.6	18.4
89938 2002 FR_{4}	12.5	X	287.55843	70.12524	23.08214	32.00067	0.0755666	0.08323564	5.1951308	21	10 15.3	19.2
89939 2002 FV_{7}	14.1	X	90.44044	357.63549	187.41216	19.44940	0.0691298	0.16814535	3.2509688	21	7 3.8	19.1
89940 2002 FG_{8}	12.3	X	224.69322	345.07989	185.14166	25.24030	0.0811471	0.08202577	5.2460914	21	11 2.1	19.6
89941 2002 FZ_{20}	14.2	X	68.92366	250.78744	17.19695	21.90226	0.0481509	0.17922051	3.1156183	21	9 24.8	18.6
89942 2002 FA_{23}	14.4	X	9.64508	332.92078	1.73758	17.54870	0.2521084	0.17332415	3.1858843	21	10 8.9	17.7
89943 2002 FG_{29}	16.7	X	244.76539	276.75930	88.83367	5.89560	0.1096439	0.31779335	2.1266998	21	5 4.8	19.5
89944 2002 FD_{32}	15.2	X	164.43242	356.86670	70.37752	5.76995	0.0275507	0.21291617	2.7775611	21	4 30.9	19.1
89945 2002 GZ_{33}	14.6	X	16.79094	228.55941	115.51919	11.29650	0.0719447	0.17994390	3.1072626	21	10 23.9	18.9
89946 2002 GP_{39}	14.9	X	297.46968	193.79498	200.48895	13.51460	0.2704317	0.22499122	2.6772710	21	7 26.6	18.3
89947 2002 GQ_{48}	14.1	X	264.89438	78.33220	252.78955	9.81335	0.0688914	0.15982111	3.3628949	21	4 26.2	19.0
89948 2002 GJ_{57}	13.9	X	42.44890	28.47759	282.54295	9.64628	0.0866365	0.17719559	3.1393093	21	10 8.9	18.3
89949 2002 GS_{118}	15.2	X	248.15249	265.00405	122.58189	5.54660	0.1250173	0.21824351	2.7321748	21	6 9.8	19.2
89950 2002 GJ_{133}	14.5	X	81.13381	350.17809	13.77457	10.53593	0.1219750	0.18691198	3.0295488	21	—	—
89951 2002 GU_{154}	14.4	X	97.18201	210.65551	146.52865	10.73308	0.0868638	0.19144197	2.9815672	21	—	—
89952 2002 JB_{20}	14.3	X	51.96249	153.27547	176.30637	22.86017	0.1203106	0.17828144	3.1265494	21	11 25.6	19.1
89953 2002 JZ_{91}	16.1	X	112.77379	112.60796	237.03521	2.30751	0.0625294	0.23795244	2.5791460	21	—	—
89954 2002 JY_{98}	15.2	X	115.75010	183.56094	129.46061	15.42401	0.0970643	0.23579279	2.5948706	21	—	—
89955 2002 JA_{119}	14.7	X	225.76949	284.03123	130.00221	14.37234	0.2123020	0.21891309	2.7266008	21	6 14.7	19.4
89956 Leibacher	14.2	X	110.19782	122.55895	222.33499	19.33474	0.1828935	0.17443595	3.1723327	21	—	—
89957 2002 LQ_{41}	14.5	X	127.14143	146.42775	236.51822	14.90462	0.2997609	0.23681284	2.5874138	21	2 11.6	18.8
89958 2002 LY_{45}	17.0	X	343.85712	222.91444	188.17163	9.90828	0.8862689	0.46855644	1.6417037	21	6 20.4	16.4
89959 2002 NT_{7}	16.5	X	49.18738	300.70801	132.02530	42.35496	0.5282108	0.43111700	1.7354254	21	—	—
89960 2002 ND_{35}	14.4	X	337.57792	218.87735	238.42004	9.49483	0.0496682	0.17399552	3.1776837	21	—	—
89961 2002 PC_{72}	14.5	X	123.96795	96.15268	259.44340	13.27526	0.1048998	0.17922736	3.1155389	21	—	—
89962 2002 PL_{128}	15.2	X	73.35338	300.55303	75.75508	7.50117	0.0904168	0.22396321	2.6854573	21	—	—
89963 2002 QH_{6}	16.2	X	297.59186	187.47885	233.95330	20.98318	0.1048190	0.36629221	1.9345692	21	10 29.6	17.6
89964 2002 QZ_{24}	15.4	X	206.89582	304.70496	240.92325	19.79676	0.0195791	0.37167225	1.9158549	21	12 24.5	17.4
89965 2002 RX_{7}	14.9	X	213.37040	335.68286	117.01419	3.09725	0.0263691	0.20338223	2.8636991	21	8 2.6	19.0
89966 2002 RX_{24}	15.7	X	162.18098	12.96078	47.85026	6.18367	0.2347635	0.23552663	2.5968251	21	4 30.0	20.0
89967 2002 RD_{65}	14.2	X	94.75605	20.44216	66.49068	13.26469	0.2281355	0.17566457	3.1575236	21	4 7.4	18.9
89968 2002 RY_{81}	16.5	X	178.50849	76.89930	334.64597	1.61404	0.1651692	0.29404393	2.2397243	21	4 24.9	20.0
89969 2002 RW_{87}	16.6	X	56.09865	34.80581	346.17099	1.92169	0.2184083	0.27188798	2.3598046	21	—	—
89970 2002 RQ_{90}	16.2	X	153.20401	244.05076	170.27092	4.08978	0.2476491	0.23730875	2.5838079	21	4 15.9	20.6
89971 2002 RX_{105}	15.4	X	120.07222	208.66131	251.95219	2.89916	0.2092176	0.23382519	2.6094072	21	5 8.5	19.2
89972 2002 RB_{108}	15.7	X	219.57503	199.05185	223.86845	8.20459	0.2410841	0.24330695	2.5411660	21	6 16.5	20.0
89973 Aranyjános	16.6	X	86.67867	338.22575	211.44560	5.42503	0.1427917	0.29939570	2.2129538	21	7 18.0	19.3
89974 2002 RA_{150}	15.9	X	120.73027	261.97737	204.81757	8.49293	0.0730848	0.24225504	2.5485168	21	4 30.5	19.2
89975 2002 RH_{191}	15.6	X	56.45102	295.46221	158.78111	23.52641	0.2262632	0.28264090	2.2995669	21	1 2.7	17.8
89976 2002 SQ_{21}	15.0	X	154.88098	326.06296	87.11300	2.84951	0.0932799	0.18617579	3.0375300	21	4 9.4	19.5
89977 2002 TX_{3}	16.4	X	30.30631	287.74323	108.98533	1.80193	0.2071578	0.26885385	2.3775257	21	—	—
89978 2002 TA_{27}	15.2	X	245.38188	181.94755	243.08285	0.93340	0.0718714	0.19851551	2.9103133	21	7 31.1	19.4
89979 2002 TP_{27}	15.0	X	327.48621	329.85813	206.07497	24.53591	0.2452210	0.27778175	2.3263064	21	—	—
89980 2002 TV_{27}	15.0	X	120.32036	190.19999	247.88475	0.88358	0.1518815	0.18152906	3.0891473	21	4 7.9	19.5
89981 2002 TL_{30}	15.4	X	69.69823	76.12933	21.30112	11.67922	0.1468129	0.22854291	2.6494611	21	2 21.9	18.5
89982 2002 TU_{35}	16.3	X	44.84453	224.18957	71.04647	2.29669	0.1762348	0.25983479	2.4322293	21	10 22.9	19.3
89983 2002 TE_{36}	14.6	X	198.96143	281.31313	148.72659	3.54657	0.1115695	0.19175907	2.9782794	21	6 13.3	19.3
89984 2002 TR_{38}	16.0	X	303.84424	344.62650	224.74377	6.82485	0.0649367	0.28003862	2.3137908	21	—	—
89985 2002 TT_{41}	15.3	X	33.02658	226.72745	87.50440	2.98748	0.0844422	0.20567082	2.8424157	21	10 10.0	18.9
89986 2002 TV_{45}	15.8	X	55.34512	180.55612	26.99953	7.27031	0.0450374	0.29653680	2.2271544	21	6 9.5	18.3
89987 2002 TX_{48}	15.7	X	112.57660	47.90626	28.23566	9.02363	0.1212556	0.23147113	2.6270691	21	3 20.9	19.2
89988 2002 TJ_{49}	15.3	X	290.48910	97.87579	284.31287	1.02184	0.0751677	0.19787373	2.9166028	21	8 2.5	19.2
89989 2002 TV_{49}	15.9	X	196.17353	179.88027	163.42429	2.94538	0.2121305	0.23388963	2.6089279	21	2 21.8	20.4
89990 2002 TP_{54}	16.2	X	293.05194	182.85977	156.76468	3.04431	0.1146008	0.24685446	2.5167615	21	6 2.7	19.4
89991 2002 TC_{56}	16.1	X	159.06925	197.19603	356.29965	6.58852	0.0526119	0.25922124	2.4360657	21	10 9.4	19.5
89992 2002 TS_{66}	15.9	X	42.19744	99.88551	209.53993	22.15018	0.0411110	0.36492599	1.9393946	21	11 3.9	17.6
89993 2002 TV_{66}	16.1	X	162.08465	335.24268	219.05576	20.31730	0.0609636	0.36508906	1.9388171	21	10 29.6	18.2
89994 2002 TK_{68}	15.4	X	6.29574	111.49894	26.51727	24.30704	0.2395092	0.28084513	2.3093590	21	—	—
89995 2002 TL_{72}	15.1	X	181.96739	80.28437	322.95647	9.32202	0.0730922	0.18722753	3.0261440	21	4 18.9	19.8
89996 2002 TK_{79}	16.0	X	327.36089	28.63266	75.67637	7.41845	0.0881832	0.26785431	2.3834367	21	—	—
89997 2002 TO_{79}	16.0	X	175.40772	295.11340	64.75628	6.80269	0.2583746	0.28631692	2.2798418	21	2 25.2	19.8
89998 2002 TN_{83}	14.9	X	56.45640	105.14239	19.75356	6.52077	0.2157720	0.22714625	2.6603105	21	3 13.9	17.4
89999 2002 TU_{89}	14.6	X	68.53851	165.64646	260.91152	4.15250	0.1373470	0.17305183	3.1892257	21	1 16.9	18.5
90000 2002 TK_{102}	15.0	X	54.76255	340.25544	210.24656	12.69867	0.0891355	0.24408052	2.5357940	21	5 24.9	18.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
90001 2002 TV_{111}	16.5	X	213.40609	271.77100	48.18779	3.02018	0.1987500	0.29017406	2.2595936	21	2 2.3	20.2
90002 2002 TL_{142}	16.5	X	81.95181	154.27066	144.25746	3.30874	0.1800946	0.26613690	2.3936794	21	12 10.0	20.1
90003 2002 TP_{143}	15.8	X	290.74142	289.39092	94.02590	7.08074	0.1338885	0.25322771	2.4743544	21	7 29.8	18.7
90004 2002 TT_{144}	15.2	X	83.15008	336.38612	107.38463	13.89762	0.0851239	0.22899109	2.6460030	21	2 13.4	18.6
90005 2002 TM_{156}	17.1	X	4.72292	200.93724	195.27556	21.96699	0.0813100	0.37305052	1.9111332	21	—	—
90006 2002 TU_{176}	15.2	X	100.38051	246.76165	242.72123	14.26822	0.1497813	0.23787159	2.5797304	21	5 15.5	18.7
90007 2002 TE_{179}	14.6	X	315.36759	264.16283	242.06913	27.37792	0.3658636	0.21374156	2.7704059	21	—	—
90008 2002 TV_{185}	14.4	X	52.41259	262.98899	208.91692	17.02100	0.3087864	0.17521445	3.1629289	21	3 6.8	17.9
90009 2002 TQ_{200}	15.5	X	317.93063	316.02335	273.50379	4.60343	0.0754503	0.23641562	2.5903111	21	2 12.7	19.0
90010 2002 TS_{202}	14.7	X	244.07059	330.82065	37.10141	11.83664	0.1424832	0.19348548	2.9605367	21	5 8.9	19.2
90011 2002 TU_{206}	15.0	X	28.93692	72.93405	328.13092	4.80137	0.0756095	0.21618541	2.7494878	21	—	—
90012 2002 TA_{211}	16.4	X	343.87570	281.90029	162.18384	2.78385	0.1774553	0.26650943	2.3914483	21	—	—
90013 2002 TM_{240}	15.5	X	143.07607	350.22263	90.97101	9.88556	0.2195760	0.23432930	2.6056634	21	5 10.5	19.8
90014 2002 TO_{260}	16.6	X	282.01253	284.56785	59.78885	5.02937	0.2057997	0.24669768	2.5178277	21	5 11.0	20.0
90015 2002 TX_{264}	15.7	X	166.67958	11.69668	242.96880	5.76781	0.1005091	0.26663396	2.3907036	21	—	—
90016 2002 TY_{265}	15.8	X	126.66426	343.50015	55.26583	5.58659	0.1223046	0.27951626	2.3166726	21	2 9.4	18.7
90017 2002 TW_{266}	16.4	X	297.85486	316.19352	61.81220	3.57685	0.1936950	0.30330606	2.1938924	21	7 24.6	18.5
90018 2002 TP_{275}	16.7	X	141.34480	233.71922	227.13721	5.39416	0.0835069	0.29283085	2.2459056	21	5 15.8	19.7
90019 2002 TV_{283}	15.3	X	167.87808	352.77118	14.00880	9.88770	0.0821544	0.23132060	2.6282087	21	2 21.6	19.2
90020 2002 TV_{285}	16.2	X	228.52072	219.39486	273.42406	4.74821	0.0773516	0.30906418	2.1665577	21	10 16.5	18.8
90021 2002 TR_{286}	15.8	X	335.84694	177.31931	251.43537	4.46443	0.1199722	0.26321237	2.4113774	21	12 28.9	18.2
90022 Apache Point	15.9	X	230.46122	8.25609	126.04102	10.83562	0.0742700	0.25725041	2.4484919	21	10 22.0	19.3
90023 2002 UP_{2}	14.3	X	111.48365	156.75736	334.68334	22.16389	0.0361140	0.23945628	2.5683363	21	5 4.9	18.3
90024 2002 UT_{7}	15.2	X	148.78444	353.06033	92.98027	12.76998	0.0473295	0.18714699	3.0270120	21	5 12.1	19.7
90025 2002 UV_{7}	15.8	X	125.73347	222.92114	112.53050	10.35013	0.1988360	0.27616457	2.3353792	21	—	—
90026 2002 UM_{8}	15.4	X	99.79691	234.62120	147.14832	11.86694	0.0664313	0.22316075	2.6918912	21	—	—
90027 2002 UM_{18}	16.3	X	258.93156	143.06463	116.77578	4.06051	0.1375156	0.28376446	2.2934928	21	—	—
90028 2002 UQ_{20}	16.6	X	73.02666	259.64157	221.32118	4.63884	0.0956771	0.28473631	2.2882711	21	3 6.3	19.1
90029 2002 UY_{21}	15.2	X	147.12609	301.20115	107.93622	2.37706	0.1761259	0.18018084	3.1045380	21	4 3.8	20.2
90030 2002 UM_{22}	14.6	X	127.55513	12.21227	45.86228	12.22006	0.0510660	0.17775090	3.1327675	21	3 17.2	19.3
90031 2002 UH_{25}	15.9	X	264.93952	43.87671	259.33355	5.76733	0.1185138	0.29165833	2.2519209	21	2 28.4	19.1
90032 2002 UM_{28}	15.3	X	4.07416	325.81903	97.01165	6.23578	0.0827889	0.21373400	2.7704712	21	—	—
90033 2002 UT_{31}	15.9	X	281.67161	241.73909	344.19205	8.07784	0.1746911	0.28127973	2.3069796	21	—	—
90034 2002 UO_{32}	15.8	X	101.72321	75.33373	45.40222	13.66224	0.1362944	0.23386467	2.6091135	21	5 4.3	19.3
90035 2002 UQ_{34}	15.3	X	57.22161	254.84583	247.19177	12.10477	0.1131420	0.22967688	2.6407332	21	3 18.6	18.6
90036 2002 US_{37}	16.3	X	33.73062	283.82368	201.56686	4.22156	0.0908208	0.27995638	2.3142439	21	1 5.0	18.7
90037 2002 UL_{41}	16.1	X	334.65492	331.62390	105.67341	2.27296	0.1603113	0.26352646	2.4094610	21	—	—
90038 2002 UY_{44}	15.4	X	176.92677	44.59569	163.21258	8.05984	0.1410272	0.26362580	2.4088557	21	11 16.9	19.2
90039 2002 UN_{48}	16.1	X	6.62338	151.80561	325.74043	7.42169	0.0594832	0.27277057	2.3547115	21	—	—
90040 2002 UN_{49}	14.9	X	184.92017	128.05262	321.99993	7.61381	0.1512368	0.24083523	2.5585233	21	6 23.6	19.1
90041 2002 VU	16.2	X	78.44363	289.78159	45.29673	22.55397	0.0866561	0.37310840	1.9109355	21	—	—
90042 2002 VW_{1}	14.5	X	190.34984	279.48622	52.00059	12.08333	0.0543007	0.17531999	3.1616595	21	2 11.0	19.4
90043 2002 VD_{2}	16.0	X	197.84161	201.58726	232.91602	3.19957	0.1790211	0.23830176	2.5766250	21	6 14.9	20.3
90044 2002 VN_{2}	17.0	X	108.40217	164.58070	120.17376	2.23905	0.1668290	0.31830255	2.1244310	21	12 24.6	20.0
90045 2002 VC_{6}	14.8	X	256.59800	241.10315	81.45008	14.13669	0.2611100	0.24353643	2.5395695	21	3 21.6	19.3
90046 2002 VF_{12}	16.3	X	49.12165	290.01553	121.91618	1.73752	0.1305480	0.27079017	2.3661782	21	—	—
90047 2002 VT_{15}	15.9	X	227.17410	144.52993	176.86217	8.34054	0.0811945	0.28617590	2.2805907	21	2 15.0	19.0
90048 2002 VL_{16}	15.2	X	200.63271	243.74742	312.24009	3.73650	0.0775033	0.21010370	2.8022933	21	11 21.1	19.4
90049 2002 VM_{18}	16.3	X	331.27638	233.03290	249.33685	2.15244	0.1200157	0.26950436	2.3736983	21	—	—
90050 2002 VQ_{23}	15.6	X	150.58706	115.04042	245.80153	1.27908	0.0703557	0.22642379	2.6659664	21	1 21.1	19.3
90051 2002 VN_{25}	16.1	X	346.10313	279.48042	165.17366	8.97424	0.1395576	0.26642532	2.3919516	21	—	—
90052 2002 VA_{27}	15.5	X	18.01771	43.01959	42.85626	5.67053	0.0125447	0.21866495	2.7286632	21	—	—
90053 2002 VL_{28}	15.3	X	96.37290	50.42440	50.20054	10.58760	0.2036454	0.17744656	3.1363486	21	4 18.6	19.7
90054 2002 VC_{31}	15.0	X	177.30236	52.70957	69.75018	5.38920	0.0646207	0.19226570	2.9730452	21	7 28.1	19.4
90055 2002 VY_{36}	15.3	X	173.94040	49.57801	51.71188	19.90447	0.0563620	0.24476375	2.5310729	21	6 23.3	19.2
90056 2002 VP_{38}	15.6	X	138.69015	123.70268	359.53500	6.01179	0.1768875	0.24033647	2.5620617	21	6 22.6	19.7
90057 2002 VH_{48}	15.1	X	306.52571	209.29479	126.05558	3.98402	0.1739091	0.24523519	2.5278280	21	6 7.2	17.9
90058 2002 VC_{54}	16.1	X	348.93366	337.23348	209.03632	4.72781	0.0927320	0.28206397	2.3027015	21	1 17.2	18.6
90059 2002 VW_{56}	16.1	X	243.62265	310.88537	73.99234	7.55650	0.1177967	0.29377837	2.2410739	21	5 29.6	19.0
90060 2002 VR_{62}	15.9	X	126.15246	161.57080	251.16226	4.05780	0.1405469	0.28285191	2.2984231	21	2 25.1	18.7
90061 2002 VK_{63}	15.7	X	190.60934	73.69840	16.36121	8.38074	0.1385744	0.24333345	2.5409815	21	6 29.3	19.8
90062 2002 VQ_{64}	14.5	X	144.44542	125.18289	243.77648	5.17566	0.1895206	0.18152982	3.0891386	21	2 11.3	19.5
90063 2002 VW_{64}	14.5	X	154.96168	228.88166	256.62972	7.44668	0.2501804	0.18754461	3.0227321	21	7 12.3	19.8
90064 2002 VV_{65}	15.3	X	102.30461	13.23615	347.33458	12.59793	0.2478959	0.22221269	2.6995423	21	—	—
90065 2002 VQ_{74}	15.4	X	124.04514	166.93987	115.10568	5.37016	0.0369605	0.21231197	2.7828282	21	12 14.4	19.3
90066 2002 VF_{76}	16.1	X	299.58761	41.11781	188.19440	6.13901	0.1109140	0.28173559	2.3044904	21	1 6.9	19.2
90067 2002 VS_{76}	14.8	X	260.91483	298.35827	82.22478	11.02030	0.1128654	0.19320188	2.9634332	21	6 17.0	18.9
90068 2002 VV_{77}	15.5	X	254.65273	115.06388	107.06780	7.24747	0.0748279	0.27318069	2.3523542	21	—	—
90069 2002 VK_{79}	15.9	X	0.23616	20.69738	88.16647	7.32229	0.1230928	0.27051448	2.3677856	21	—	—
90070 2002 VN_{79}	15.3	X	95.93954	339.53259	189.07863	4.49342	0.1915580	0.23861507	2.5743690	21	7 7.7	18.9
90071 2002 VJ_{81}	15.9	X	267.95560	50.05322	89.27262	6.98273	0.1158787	0.26015933	2.4302061	21	12 9.3	18.6
90072 2002 VV_{81}	15.8	X	124.38840	353.19196	99.00894	5.27276	0.1698606	0.28563446	2.2834718	21	4 26.4	18.9
90073 2002 VH_{83}	16.0	X	214.67938	59.99442	92.82010	5.33255	0.0178444	0.30899416	2.1668850	21	11 8.4	18.5
90074 2002 VK_{84}	15.2	X	63.67032	12.82330	114.42405	8.94122	0.1993631	0.22489867	2.6780054	21	4 1.5	18.2
90075 2002 VU_{94}	15.3	X	109.12187	30.67079	226.75876	8.91435	0.5761801	0.31630064	2.1333855	21	12 2.2	19.9
90076 2002 VS_{95}	14.3	X	139.49667	247.78398	5.17968	11.78261	0.3025563	0.26410771	2.4059245	21	12 2.8	18.9
90077 2002 VS_{96}	15.6	X	347.19028	284.13383	224.19135	7.64704	0.1490716	0.22001083	2.7175238	21	—	—
90078 2002 VX_{97}	16.0	X	131.24434	298.90585	254.28294	5.89530	0.0725423	0.30236465	2.1984438	21	9 8.1	19.0
90079 2002 VN_{105}	16.0	X	211.18404	112.57651	337.82928	2.55968	0.1227399	0.24589794	2.5232839	21	7 21.7	19.8
90080 2002 VW_{107}	14.9	X	77.85577	177.40235	40.21957	10.34242	0.0136741	0.19251424	2.9704858	21	7 26.6	19.2

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
90081 2002 VS_{109}	15.7	X	78.05342	187.44764	266.94277	6.41150	0.0736577	0.27983894	2.3148914	21	2 2.3	18.3
90082 2002 VO_{114}	16.1	X	82.10393	152.05339	72.96292	5.32673	0.1030733	0.29995585	2.2101979	21	8 31.2	18.8
90083 2002 VB_{115}	15.6	X	266.38228	292.37232	311.70204	9.00645	0.1359263	0.28088547	2.3091379	21	—	—
90084 2002 VC_{116}	14.9	X	102.00333	264.23714	136.68612	8.02089	0.2592801	0.27359089	2.3500023	21	1 28.9	17.2
90085 2002 VE_{118}	15.3	X	334.74517	291.69622	240.72589	22.16108	0.2385573	0.27613969	2.3355195	21	—	—
90086 2002 VL_{135}	16.6	X	169.88185	30.09829	123.44751	3.75860	0.0650414	0.30368326	2.1920754	21	9 4.6	19.3
90087 2002 WS_{2}	14.7	X	46.61433	86.38285	100.45597	11.62823	0.0805679	0.18323724	3.0699188	21	5 13.7	18.8
90088 2002 WP_{6}	16.1	X	350.55146	304.14953	252.62440	9.48291	0.0798230	0.28298575	2.2976983	21	2 2.5	18.9
90089 2002 WH_{12}	15.4	X	66.91837	330.44503	150.52255	13.08762	0.1561880	0.22748189	2.6576931	21	3 20.3	18.4
90090 2002 WK_{14}	16.0	X	83.20493	249.86806	211.23821	11.87181	0.1626930	0.22753258	2.6572983	21	3 14.4	19.4
90091 2002 XG_{2}	15.0	X	155.69521	244.68960	89.40528	13.29581	0.0628940	0.22251493	2.6970972	21	—	—
90092 2002 XM_{4}	14.1	X	161.68270	165.58718	281.57249	17.20134	0.1699782	0.18078134	3.0976593	21	5 30.5	19.3
90093 2002 XS_{5}	16.1	X	345.15455	104.76363	108.37697	1.12652	0.1251909	0.28518517	2.2858694	21	2 14.4	18.6
90094 2002 XV_{5}	15.8	X	322.52175	99.98658	70.28352	7.60676	0.0542998	0.27499229	2.3420116	21	—	—
90095 2002 XB_{7}	15.0	X	240.32057	154.01575	225.39511	9.73306	0.0684861	0.19025419	2.9939639	21	5 28.3	19.3
90096 2002 XO_{9}	15.7	X	160.20951	14.76051	97.94122	3.59594	0.1592977	0.23945561	2.5683411	21	6 28.8	19.7
90097 2002 XU_{9}	14.3	X	154.98030	5.13256	91.65689	13.01743	0.0879621	0.18275244	3.0753455	21	6 2.3	19.0
90098 2002 XV_{9}	15.5	X	150.87319	10.65322	82.07154	4.75301	0.1731021	0.23494966	2.6010747	21	5 26.4	19.5
90099 2002 XL_{10}	15.2	X	141.82006	29.53205	108.18543	13.32330	0.1129216	0.23673838	2.5879563	21	7 10.0	19.0
90100 2002 XP_{13}	15.7	X	268.62693	316.86655	184.48109	8.42968	0.1259643	0.26047684	2.4282308	21	12 12.1	18.5
90101 2002 XG_{21}	16.2	X	65.22386	21.02892	22.44864	5.70512	0.0375148	0.27186531	2.3599358	21	—	—
90102 2002 XQ_{21}	15.6	X	190.33746	332.57498	64.99031	4.92238	0.2475450	0.28760417	2.2730340	21	4 22.1	19.4
90103 2002 XK_{25}	15.4	X	123.40354	302.46662	68.49435	6.29366	0.0853771	0.22180542	2.7028459	21	1 4.6	19.1
90104 2002 XE_{29}	14.9	X	341.14605	93.62820	117.11927	13.67492	0.1172150	0.22255899	2.6967413	21	2 22.2	18.3
90105 2002 XF_{33}	15.9	X	348.76954	271.13033	168.37996	7.14446	0.0947652	0.26400791	2.4065308	21	—	—
90106 2002 XY_{33}	15.6	X	156.95636	179.32938	51.25399	3.68008	0.1242690	0.31113255	2.1569451	21	12 1.1	18.7
90107 2002 XJ_{34}	15.5	X	230.66577	319.68960	83.23075	3.14501	0.0887084	0.24169810	2.5524303	21	6 12.5	19.2
90108 2002 XB_{35}	14.6	X	308.46651	1.34331	277.92093	13.73646	0.0946986	0.22834702	2.6509762	21	3 29.9	18.4
90109 2002 XR_{39}	16.0	X	149.31337	21.57115	30.80698	1.55127	0.1860353	0.28349414	2.2949505	21	3 31.5	19.3
90110 2002 XH_{44}	15.8	X	247.74944	219.31456	56.90297	8.18431	0.1616477	0.27934251	2.3176331	21	1 11.1	19.5
90111 2002 XJ_{44}	15.0	X	0.46670	250.11459	297.97963	10.38671	0.1393239	0.22499791	2.6772180	21	2 13.7	18.1
90112 2002 XZ_{44}	14.8	X	111.58057	234.27419	288.61185	9.70902	0.0970435	0.18132276	3.0914900	21	7 6.9	19.2
90113 2002 XG_{52}	15.9	X	211.72207	32.67257	77.83974	11.54557	0.0786767	0.24672588	2.5176358	21	8 26.5	19.7
90114 2002 XU_{52}	15.6	X	193.32926	188.95561	254.65730	2.50726	0.0547111	0.24001116	2.5643763	21	6 25.0	19.0
90115 2002 XJ_{54}	16.2	X	126.73477	48.07053	107.35544	4.75093	0.0403038	0.29540455	2.2328417	21	7 9.2	18.8
90116 2002 XY_{59}	14.8	X	107.29390	222.87914	262.96365	8.31052	0.0360978	0.18192368	3.0846784	21	5 5.6	19.3
90117 2002 XG_{60}	15.8	X	151.55635	256.70731	240.41536	6.52027	0.0675450	0.24269785	2.5454159	21	7 15.9	19.4
90118 2002 XY_{60}	15.8	X	168.62521	299.87700	37.00087	8.26499	0.2658255	0.27928877	2.3179304	21	1 23.1	19.6
90119 2002 XV_{65}	15.3	X	53.50198	192.05449	24.83751	22.87126	0.0625252	0.23886050	2.5726053	21	6 23.9	19.0
90120 2002 XG_{71}	15.4	X	85.37033	89.16918	354.84363	1.31405	0.1923452	0.22447306	2.6813895	21	3 3.2	18.5
90121 2002 XO_{72}	15.5	X	105.28537	250.90435	68.35860	8.96015	0.1749941	0.26544932	2.3978111	21	—	—
90122 2002 XO_{73}	16.0	X	151.47840	66.29233	294.15197	4.90145	0.0275936	0.27689957	2.3312447	21	1 5.6	19.0
90123 2002 XO_{76}	16.4	X	334.65985	55.12609	30.59757	3.02167	0.1371369	0.26149086	2.4219493	21	—	—
90124 2002 XJ_{80}	15.1	X	276.92254	292.28282	83.95758	10.98926	0.2111502	0.24459049	2.5322681	21	6 15.9	18.3
90125 Chrissquire	15.6	X	207.11874	57.41498	31.84142	3.75561	0.0900173	0.24145547	2.5541399	21	7 18.2	19.3
90126 2002 XC_{81}	15.0	X	35.50595	38.44855	72.48322	11.20030	0.1918763	0.21830635	2.7316505	21	1 5.8	17.7
90127 2002 XE_{81}	15.7	X	277.82768	42.39398	63.66603	6.89102	0.1223531	0.25382949	2.4704420	21	11 7.1	18.4
90128 2002 XL_{81}	14.0	X	355.84188	130.40782	81.35979	17.27316	0.1973041	0.17230765	3.1984017	21	3 29.0	17.9
90129 2002 XQ_{81}	15.8	X	128.44860	54.46270	68.48248	5.47886	0.0539261	0.23452187	2.6042369	21	5 29.5	19.3
90130 2002 XK_{82}	15.3	X	110.83837	43.68972	87.97803	15.55268	0.0922723	0.23214727	2.6219656	21	5 26.8	18.9
90131 2002 XB_{85}	15.9	X	329.59276	115.00248	352.49648	4.47220	0.1117373	0.26477711	2.4018678	21	—	—
90132 2002 XY_{85}	16.1	X	26.22028	259.95887	32.74228	5.91696	0.1682984	0.30140831	2.2030917	21	9 25.4	18.0
90133 2002 XV_{86}	15.5	X	321.09148	105.94376	36.68085	5.56739	0.1109428	0.21328229	2.7743815	21	—	—
90134 2002 XZ_{95}	16.5	X	338.97552	135.46391	51.22450	3.36987	0.0957364	0.27825452	2.3236706	21	1 5.3	19.3
90135 2002 XH_{105}	15.6	X	20.90529	64.45175	89.30145	9.49801	0.0472936	0.22552895	2.6730137	21	2 12.4	19.0
90136 2002 XO_{105}	14.7	X	207.98133	63.77679	41.38401	13.39768	0.0537361	0.19188646	2.9769611	21	8 15.4	19.3
90137 2002 XK_{112}	14.7	X	60.78193	112.46453	52.62020	10.76900	0.1706421	0.17752719	3.1353989	21	5 14.9	18.7
90138 Diehl	16.6	X	209.14388	124.64586	218.20159	0.51972	0.0637069	0.28406611	2.2918689	21	2 24.3	19.8
90139 2002 YA_{1}	15.1	X	22.68581	51.86885	87.22289	12.41141	0.0860095	0.21926670	2.7236685	21	1 25.5	18.5
90140 Gómezdonet	16.4	X	70.94310	263.75058	145.97195	6.59099	0.1000406	0.26888815	2.3773234	21	—	—
90141 2002 YO_{3}	14.5	X	74.36789	87.45869	95.19833	17.25567	0.1908782	0.17789327	3.1310959	21	6 29.8	18.7
90142 2002 YS_{5}	14.9	X	336.11164	138.08878	92.54944	10.72675	0.1078959	0.22471048	2.6795004	21	3 17.0	18.4
90143 2002 YS_{6}	15.0	X	88.38327	354.80946	111.88748	13.95092	0.0911810	0.22556792	2.6727058	21	3 28.9	18.7
90144 2002 YX_{6}	15.4	X	241.93875	70.82071	346.43927	12.84244	0.1244805	0.24436474	2.5338274	21	7 14.5	19.3
90145 2002 YA_{9}	15.4	X	31.88581	318.86611	91.30082	7.48186	0.0976687	0.26503039	2.4003373	21	—	—
90146 2002 YZ_{9}	15.4	X	194.01813	332.12287	91.65451	8.41904	0.1755419	0.23778834	2.5803325	21	5 29.9	19.6
90147 2002 YK_{14}	18.3	X	139.97462	105.04783	282.70478	27.99389	0.3314752	0.55058123	1.4743088	21	—	—
90148 2002 YL_{14}	14.9	X	310.10351	61.95910	91.38747	10.12647	0.0917289	0.21399632	2.7682067	21	—	—
90149 2002 YX_{16}	16.0	X	38.59901	178.05445	77.95613	6.59198	0.1294904	0.29743801	2.2226533	21	8 13.7	18.2
90150 2002 YP_{17}	15.9	X	142.42565	17.24703	93.84485	2.98033	0.1660603	0.23662145	2.5888088	21	6 9.9	19.9
90151 2002 YQ_{20}	15.3	X	113.34007	349.76069	125.54751	1.97329	0.1575030	0.17877120	3.1208365	21	5 17.9	19.9
90152 2002 YV_{20}	15.6	X	142.63929	124.35463	271.60162	10.28785	0.0755661	0.27962988	2.3160450	21	2 12.3	18.8
90153 2002 YW_{23}	14.7	X	98.40023	73.74377	96.57575	10.71202	0.0415741	0.18386468	3.0629307	21	6 22.8	19.0
90154 2002 YL_{24}	15.8	X	240.47514	230.03326	105.01157	7.87349	0.1543401	0.28553022	2.2840275	21	3 21.6	19.3
90155 2002 YW_{25}	14.9	X	70.76184	99.11365	104.58258	13.19244	0.1936407	0.18117280	3.0931957	21	7 23.4	19.2
90156 2002 YS_{29}	14.5	X	20.08800	110.07168	108.67534	10.92180	0.1655848	0.17473434	3.1687201	21	5 19.1	18.2
90157 2002 YH_{30}	16.3	X	122.68565	309.43548	97.56808	2.91809	0.0386042	0.27709475	2.3301498	21	1 31.7	19.1
90158 2002 YL_{30}	15.9	X	315.25490	194.66569	113.80056	6.22621	0.1596029	0.29185774	2.2508950	21	5 13.5	18.3
90159 2002 YZ_{30}	14.6	X	287.47485	229.38297	115.28570	12.98392	0.2711066	0.24158466	2.5532293	21	5 13.7	18.5
90160 2002 YB_{33}	15.7	X	202.59717	44.86464	55.48887	8.00119	0.1306121	0.24384947	2.5373955	21	7 26.8	19.7

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
90161 2002 YM_{34}	16.6	X	4.06295	349.16079	67.82376	3.21242	0.1989026	0.26072455	2.4266926	21	—	—
90162 2003 AO_{3}	16.4	X	30.44475	254.27411	123.67500	24.22923	0.0975622	0.36395066	1.9428579	21	—	—
90163 2003 AS_{5}	14.5	X	78.09490	277.63954	294.40730	11.80481	0.2565390	0.17896776	3.1185509	21	8 16.8	19.2
90164 2003 AD_{6}	16.1	X	55.76031	304.69931	128.56225	23.86891	0.1056461	0.37443348	1.9064245	21	—	—
90165 2003 AK_{6}	15.9	X	312.63476	304.64773	281.23791	1.53943	0.1633170	0.27135265	2.3629072	21	1 13.9	19.1
90166 2003 AR_{6}	14.8	X	319.01121	241.66591	311.78025	6.30585	0.1922959	0.21234237	2.7825626	21	—	—
90167 2003 AK_{8}	16.0	X	80.74002	248.71860	125.25926	2.01964	0.2007319	0.26657394	2.3910625	21	—	—
90168 2003 AM_{11}	15.3	X	37.74200	13.18600	143.72459	13.57366	0.1243407	0.22425223	2.6831495	21	3 16.5	18.3
90169 2003 AF_{12}	15.5	X	248.59529	239.17850	154.51788	9.65254	0.1486992	0.24248907	2.5468768	21	6 15.4	19.4
90170 2003 AY_{12}	16.1	X	34.58958	204.55983	209.75069	6.44267	0.1306545	0.26558973	2.3969660	21	—	—
90171 2003 AC_{14}	15.9	X	17.96721	114.06221	58.79451	3.13895	0.1616523	0.27323771	2.3520269	21	2 14.3	17.9
90172 2003 AM_{14}	15.4	X	164.31307	21.08599	113.74647	14.29409	0.2055890	0.24431038	2.5342032	21	8 1.7	19.7
90173 2003 AF_{17}	16.1	X	227.49680	198.41428	46.58557	3.68685	0.0810251	0.32034938	2.1153722	21	—	—
90174 2003 AK_{19}	15.7	X	342.73005	140.30181	218.97362	3.67437	0.0620151	0.25063261	2.4914050	21	9 25.4	18.4
90175 2003 AY_{21}	15.1	X	204.61695	265.17976	316.59490	8.83276	0.0845053	0.20531472	2.8457014	21	12 26.7	19.3
90176 2003 AK_{24}	14.2	X	39.13539	270.10255	270.38124	13.03499	0.1911746	0.17650389	3.1475057	21	4 27.7	17.9
90177 2003 AK_{25}	14.5	X	11.43905	273.97346	292.60099	3.45020	0.1853052	0.17419831	3.1752171	21	4 9.8	17.9
90178 2003 AG_{27}	16.1	X	178.94566	97.21901	270.58655	3.42468	0.1733879	0.28071930	2.3100490	21	2 28.6	19.6
90179 2003 AE_{28}	15.7	X	228.77460	253.92064	122.49593	6.76128	0.1208762	0.28808474	2.2705054	21	5 3.7	19.0
90180 2003 AT_{28}	15.5	X	234.40421	81.29560	119.77167	1.91884	0.0799830	0.20599828	2.8394027	21	—	—
90181 2003 AS_{29}	14.5	X	14.39223	327.27637	307.55091	8.75517	0.0430979	0.18436674	3.0573677	21	7 15.8	18.4
90182 2003 AY_{29}	15.0	X	339.29550	123.40444	120.94628	13.77750	0.1342936	0.22610884	2.6684415	21	4 6.9	18.4
90183 2003 AB_{31}	15.3	X	358.23691	249.12262	322.50876	12.34241	0.1486738	0.22054388	2.7131431	21	3 12.6	18.4
90184 2003 AS_{33}	15.0	X	173.39504	260.60145	100.10451	12.26664	0.0501342	0.22372469	2.6873657	21	2 18.2	18.9
90185 2003 AC_{36}	15.6	X	124.01024	351.05152	143.23912	3.41671	0.1284626	0.23696863	2.5862796	21	6 17.2	19.3
90186 2003 AV_{36}	15.5	X	104.70120	242.62396	141.88191	6.55633	0.1225277	0.27235007	2.3571346	21	—	—
90187 2003 AF_{37}	14.6	X	56.21697	354.80435	120.71526	16.02643	0.0597436	0.22257637	2.6966009	21	2 13.5	18.0
90188 2003 AY_{38}	15.1	X	52.81530	83.14124	133.29600	13.03817	0.1139942	0.23364288	2.6107644	21	7 1.8	18.3
90189 2003 AS_{40}	15.5	X	77.22431	156.76162	186.62513	5.42890	0.2164996	0.31328432	2.1470572	21	—	—
90190 2003 AB_{41}	14.7	X	60.41627	72.49385	141.71096	10.54961	0.0878348	0.17998656	3.1067716	21	7 5.9	18.9
90191 2003 AC_{41}	16.2	X	34.25989	36.49372	151.06476	7.14933	0.1254109	0.27899819	2.3195396	21	4 14.5	18.3
90192 2003 AZ_{41}	14.1	X	60.60536	27.86643	154.88985	17.00828	0.1819698	0.17281390	3.1921523	21	6 11.6	18.5
90193 2003 AZ_{50}	16.6	X	79.99674	313.05199	69.25062	4.62117	0.1999680	0.26845575	2.3798755	21	—	—
90194 2003 AP_{54}	15.9	X	192.15831	202.20609	30.28567	2.16065	0.2075833	0.25519252	2.4616374	21	12 23.4	19.6
90195 2003 AQ_{54}	16.1	X	248.45124	23.29000	51.69432	2.46301	0.1032955	0.24453940	2.5326207	21	8 16.3	19.4
90196 2003 AQ_{55}	15.3	X	112.06827	328.13772	42.22354	3.01208	0.2483720	0.27104958	2.3646683	21	1 1.2	17.8
90197 2003 AW_{58}	15.4	X	163.51565	342.74002	121.28759	16.10219	0.0776692	0.23431084	2.6058003	21	6 19.2	19.4
90198 2003 AK_{59}	15.5	X	37.26203	84.70473	123.95160	17.04284	0.2431777	0.22602174	2.6691270	21	6 13.8	18.3
90199 2003 AY_{62}	15.3	X	130.21526	334.19588	104.90549	7.04245	0.1013580	0.17568487	3.1572803	21	4 18.3	20.0
90200 2003 AO_{63}	15.9	X	77.39758	25.49375	85.39251	3.06221	0.0429344	0.22387547	2.6861589	21	3 7.3	19.3
90201 2003 AW_{64}	15.1	X	312.49560	91.09683	53.74473	13.41390	0.1516596	0.21034515	2.8001484	21	—	—
90202 2003 AU_{65}	15.2	X	70.97701	127.62398	69.80115	16.44224	0.0798388	0.23487469	2.6016282	21	6 26.1	18.6
90203 2003 AY_{68}	15.0	X	339.27131	136.22651	102.77835	14.55314	0.1459865	0.22522437	2.6754230	21	3 30.3	18.4
90204 2003 AV_{70}	14.3	X	340.82287	120.52545	97.88834	18.75175	0.0831193	0.16986162	3.2290334	21	3 23.8	18.9
90205 2003 AV_{71}	15.9	X	68.05855	187.50974	148.47018	1.37106	0.1759851	0.26013916	2.4303318	21	—	—
90206 2003 AO_{72}	16.3	X	130.65558	311.71239	352.45539	19.27478	0.0849411	0.36692135	1.9323571	21	—	—
90207 2003 AB_{74}	15.2	X	340.09835	6.94794	34.26744	7.34354	0.1739155	0.25673743	2.4517523	21	11 27.6	17.3
90208 2003 AP_{76}	15.3	X	42.66011	83.47112	57.36853	13.54776	0.0858802	0.22272420	2.6954076	21	3 6.2	18.8
90209 2003 AM_{78}	15.1	X	38.26161	132.64014	79.18970	12.36971	0.2255890	0.22830416	2.6513079	21	6 14.8	17.6
90210 2003 AT_{79}	15.0	X	24.16711	10.72609	48.47477	13.85972	0.2086048	0.21078103	2.7962867	21	—	—
90211 2003 AO_{80}	15.7	X	0.43387	12.33738	344.31297	18.57300	0.0861304	0.35527998	1.9743413	21	11 3.1	17.9
90212 2003 AU_{80}	14.2	X	32.50761	297.62969	169.47773	31.70060	0.3523124	0.21764585	2.7371743	21	—	—
90213 2003 AH_{81}	15.0	X	121.83667	77.77220	55.75682	14.96011	0.1069064	0.23493463	2.6011857	21	6 9.4	18.8
90214 2003 AP_{81}	15.0	X	61.85984	128.71910	56.56566	16.30544	0.1619159	0.17680912	3.1438823	21	6 9.4	19.1
90215 2003 AC_{82}	16.2	X	198.44401	300.54596	327.86238	19.18550	0.0732248	0.37248312	1.9130735	21	—	—
90216 2003 AS_{85}	15.7	X	28.02686	227.77251	204.73798	21.53059	0.0771298	0.36801870	1.9285140	21	—	—
90217 2003 AH_{87}	15.8	X	243.40358	148.72587	223.60548	6.11380	0.0385911	0.28937183	2.2637678	21	5 20.7	18.5
90218 2003 BC	13.7	X	83.45540	223.64163	336.32528	17.29405	0.2396169	0.17700467	3.1415663	21	8 12.1	18.4
90219 2003 BC_{2}	14.9	X	132.04845	31.58088	147.47151	4.56525	0.0606925	0.18716607	3.0268064	21	8 16.0	19.2
90220 2003 BQ_{2}	15.3	X	54.66259	315.30382	303.84283	10.81636	0.2618193	0.23832436	2.5764621	21	9 21.2	18.9
90221 2003 BF_{8}	14.8	X	16.70197	18.25772	243.84030	3.79052	0.1942389	0.18075786	3.0979276	21	7 10.4	18.1
90222 2003 BD_{11}	15.3	X	124.85347	163.84195	36.58175	2.39667	0.1140643	0.18638570	3.0352490	21	9 9.2	19.9
90223 2003 BD_{13}	15.1	X	203.94863	89.44061	144.49818	7.15243	0.1134236	0.25569542	2.4584087	21	—	—
90224 2003 BB_{14}	16.4	X	118.25393	292.15426	271.45194	3.60971	0.0765417	0.29518047	2.2339715	21	9 7.7	19.3
90225 2003 BH_{14}	15.8	X	283.18581	208.97155	127.43619	8.67673	0.2330571	0.28994838	2.2607659	21	4 28.4	19.0
90226 Byronsmith	14.9	X	53.47358	102.61570	121.13913	15.07018	0.2607190	0.17555387	3.1588508	21	8 4.9	18.8
90227 2003 BM_{19}	14.5	X	41.16077	147.36717	105.49813	12.89219	0.1532689	0.18139463	3.0906733	21	8 9.1	18.4
90228 2003 BN_{19}	15.0	X	173.99902	40.16201	133.92909	13.24232	0.0510842	0.18978791	2.9988658	21	9 30.6	19.6
90229 2003 BV_{20}	15.7	X	316.63514	85.77854	132.29169	7.40973	0.0942230	0.26952329	2.3735871	21	1 18.8	18.6
90230 2003 BO_{24}	15.0	X	90.77512	316.73091	185.94814	10.82753	0.1408502	0.17439185	3.1728675	21	5 24.9	19.6
90231 2003 BJ_{25}	15.3	X	76.63556	279.98634	281.80810	9.48191	0.1832577	0.23125565	2.6287007	21	7 26.3	18.7
90232 2003 BD_{27}	14.6	X	133.17080	334.42435	155.37063	17.62631	0.1885558	0.17851498	3.1238220	21	6 27.7	19.9
90233 2003 BG_{27}	15.1	X	46.77708	302.26934	303.98324	12.85330	0.1163068	0.23398870	2.6081914	21	8 3.3	18.3
90234 2003 BP_{33}	15.1	X	77.03084	210.67528	338.41376	8.87155	0.1844800	0.22953870	2.6417929	21	7 12.9	18.7
90235 2003 BF_{35}	14.0	X	236.75908	133.01097	145.87699	16.26460	0.1232656	0.16189509	3.3341126	21	1 22.4	19.4
90236 2003 BL_{43}	16.2	X	120.28749	296.29158	143.85071	6.94535	0.0617323	0.28018680	2.3129750	21	3 19.5	18.9
90237 2003 BR_{44}	15.5	X	332.82488	117.86028	110.95975	6.58854	0.0074385	0.22381556	2.6866383	21	3 20.3	19.1
90238 2003 BZ_{44}	15.2	X	215.94316	326.43565	172.47970	6.65534	0.0622645	0.19305686	2.9649171	21	9 30.1	19.5
90239 2003 BF_{47}	15.2	X	86.61725	55.12912	103.72540	15.83319	0.0496372	0.22990617	2.6389772	21	5 26.3	18.9
90240 2003 BH_{48}	15.1	X	10.90535	216.36531	8.17138	12.47457	0.2230491	0.22322914	2.6913414	21	4 23.6	17.5

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
90241 2003 BG_{49}	14.8	X	73.88572	88.94843	133.95134	11.31135	0.0201813	0.18220751	3.0814742	21	7 25.5	19.0
90242 2003 BF_{52}	14.8	X	73.66318	71.88916	147.14319	10.17924	0.0631294	0.18240629	3.0792350	21	7 26.1	19.0
90243 2003 BZ_{53}	14.9	X	252.51678	343.08004	312.40119	12.75484	0.2588316	0.27352895	2.3503571	21	2 3.4	19.0
90244 2003 BA_{59}	15.7	X	262.98621	118.56974	124.35662	9.18882	0.0320785	0.21574927	2.7531920	21	1 4.7	19.7
90245 2003 BD_{60}	14.4	X	79.78373	34.50076	127.17614	18.48364	0.0859510	0.17313130	3.1882496	21	5 30.4	19.1
90246 2003 BP_{61}	16.0	X	130.57323	38.03728	157.33691	9.40931	0.1151910	0.23825669	2.5769500	21	9 12.3	19.9
90247 2003 BQ_{61}	15.2	X	298.43045	280.67350	335.34483	4.58674	0.1814246	0.27051920	2.3677581	21	2 4.1	18.6
90248 2003 BO_{63}	16.0	X	196.51014	329.09809	312.26597	1.86286	0.1557327	0.26276275	2.4141274	21	—	—
90249 2003 BU_{63}	15.1	X	238.51974	173.13434	92.86017	10.36353	0.1129178	0.21312212	2.7757714	21	1 2.0	19.4
90250 2003 BY_{63}	15.0	X	308.18111	34.46566	158.53339	8.56654	0.1572712	0.21042883	2.7994060	21	—	—
90251 2003 BA_{64}	16.2	X	18.34276	232.96902	155.15028	23.42113	0.0951770	0.36023418	1.9561978	21	—	—
90252 2003 BA_{66}	14.8	X	284.92724	173.91846	141.69179	10.04062	0.0610222	0.17518434	3.1632914	21	5 6.6	19.4
90253 2003 BT_{66}	15.5	X	50.81516	59.98084	149.06663	12.39598	0.2156269	0.22847350	2.6499977	21	7 3.9	18.6
90254 2003 BN_{68}	15.6	X	197.20755	284.91715	332.60813	4.25245	0.1486980	0.25583670	2.4575036	21	—	—
90255 2003 BM_{69}	15.0	X	61.18021	152.13445	103.38928	10.17973	0.0990826	0.18672780	3.0315407	21	9 5.3	19.2
90256 2003 BQ_{72}	15.5	X	235.11018	39.47824	183.92716	7.23371	0.0876070	0.25799830	2.4437577	21	—	—
90257 2003 BS_{72}	14.9	X	35.08604	216.19895	41.82455	9.24419	0.2566949	0.18073427	3.0981971	21	8 24.8	18.6
90258 2003 BJ_{80}	14.6	X	237.07051	97.93655	130.68652	9.19479	0.1947801	0.20383182	2.8594866	21	—	—
90259 2003 BU_{81}	15.4	X	128.06868	276.44252	291.63187	6.26837	0.1571056	0.23882091	2.5728896	21	9 24.2	19.5
90260 2003 BC_{83}	14.5	X	9.11628	129.13707	93.63385	10.43014	0.0279326	0.17486518	3.1671392	21	5 4.7	18.9
90261 2003 BG_{83}	14.9	X	212.78021	196.69746	89.51027	10.42514	0.1292218	0.21305381	2.7763647	21	1 1.6	19.3
90262 2003 BH_{87}	14.9	X	62.35492	125.62865	141.47226	10.58317	0.0558475	0.18707749	3.0277617	21	9 13.5	19.1
90263 2003 CO	14.7	X	1.63277	343.83255	250.96441	11.04709	0.1622723	0.17303288	3.1894585	21	4 30.2	18.4
90264 2003 CC_{1}	14.6	X	349.32296	197.29276	124.91463	12.02393	0.0992069	0.18381716	3.0634586	21	8 10.7	18.3
90265 2003 CL_{5}	15.9	X	294.72169	262.18774	95.57220	5.99763	0.2077327	0.29504729	2.2346437	21	6 13.5	18.4
90266 2003 CM_{5}	16.5	X	115.19170	311.35640	91.29934	3.30894	0.2104308	0.27530518	2.3402367	21	2 12.5	19.3
90267 2003 CW_{6}	14.4	X	78.12712	42.73827	119.09623	10.55132	0.0340563	0.17461602	3.1701513	21	5 19.1	18.9
90268 2003 CT_{8}	16.0	X	252.16247	243.14986	16.89956	2.12162	0.1621299	0.26583955	2.3954640	21	—	—
90269 2003 CD_{9}	14.4	X	1.42068	95.22454	147.25833	20.22932	0.1576248	0.17537481	3.1610005	21	5 18.5	18.5
90270 2003 CX_{9}	14.6	X	51.61536	49.88381	155.80562	16.46708	0.0218352	0.17821341	3.1273450	21	6 7.1	19.2
90271 2003 CD_{10}	16.4	X	6.90308	83.22129	144.12849	7.21824	0.0641734	0.27918999	2.3184772	21	4 25.2	19.0
90272 2003 CM_{16}	14.8	X	110.88279	71.40086	129.14324	12.31189	0.0542946	0.18286104	3.0741278	21	8 18.7	19.2
90273 2003 CC_{19}	15.3	X	263.72806	8.24940	58.34110	13.90085	0.1879167	0.24513881	2.5284905	21	8 17.2	19.0
90274 2003 CH_{20}	16.1	X	318.31860	156.49894	121.33737	7.98579	0.1063967	0.28024725	2.3126424	21	4 14.9	18.8
90275 2003 DM	14.9	X	44.12895	100.66872	146.95804	5.80181	0.1047270	0.18050234	3.1008505	21	7 28.5	18.8
90276 2003 DE_{2}	15.6	X	68.13321	317.84864	296.73952	11.72587	0.1241665	0.23861131	2.5743961	21	9 11.3	19.3
90277 2003 DS_{7}	14.2	X	227.11182	287.08375	344.75206	9.16398	0.0776628	0.15701253	3.4028791	21	1 10.5	19.5
90278 2003 DH_{9}	14.3	X	143.34857	64.19220	349.57224	20.56866	0.0737225	0.16983528	3.2293673	21	3 23.2	19.2
90279 Devětsil	14.7	X	223.54029	217.07377	126.72114	13.70447	0.1817908	0.22200237	2.7012471	21	3 22.8	19.3
90280 2003 DY_{10}	15.2	X	146.58202	176.91920	33.75513	28.80990	0.1262344	0.24180361	2.5516877	21	10 21.2	19.2
90281 2003 DQ_{15}	15.9	X	112.60669	272.93644	117.15821	1.47662	0.3138771	0.27102720	2.3647984	21	2 8.2	18.7
90282 2003 DS_{20}	14.5	X	292.26339	173.95840	115.18110	2.72943	0.1472994	0.16855912	3.2456464	21	3 30.1	19.0
90283 2003 DH_{22}	15.3	X	188.66721	6.68912	142.19995	13.07077	0.0578803	0.23938372	2.5688553	21	9 17.9	19.0
90284 2003 EO_{8}	15.5	X	224.95560	2.72475	288.93967	7.81925	0.2286106	0.26605492	2.3941711	21	1 10.9	19.6
90285 2003 EV_{9}	14.5	X	329.54979	118.40367	184.89160	11.81152	0.1148203	0.17556328	3.1587379	21	6 11.9	18.7
90286 2003 EB_{11}	14.9	X	93.04725	269.27886	324.34175	5.01076	0.1967067	0.18230227	3.0804063	21	9 22.5	19.8
90287 2003 EV_{12}	15.7	X	105.38717	55.75256	201.97738	5.90622	0.0981898	0.24241503	2.5473953	21	11 2.8	19.2
90288 Dalleave	14.9	X	95.46871	77.98580	155.66918	9.51007	0.1537194	0.18152481	3.0891954	21	9 23.5	19.5
90289 2003 EB_{20}	15.8	X	247.27245	6.68911	290.39555	1.59981	0.2003341	0.26866388	2.3786463	21	2 4.1	19.8
90290 2003 EX_{20}	14.6	X	128.55856	217.88767	165.43806	10.07728	0.1770114	0.21303383	2.7765383	21	2 7.5	18.7
90291 2003 EL_{21}	15.5	X	328.81987	64.58440	184.89369	6.28806	0.1343590	0.27375850	2.3490431	21	3 12.4	18.1
90292 2003 EN_{21}	15.4	X	49.35429	75.72821	186.80213	5.79889	0.0984196	0.23411111	2.6072822	21	8 27.1	18.6
90293 2003 EH_{22}	14.5	X	67.68683	14.49784	151.02122	8.81911	0.0383565	0.17132760	3.2105874	21	5 10.5	19.0
90294 2003 EX_{26}	16.2	X	108.51135	64.06375	187.06817	1.91594	0.1034964	0.24257430	2.5462802	21	10 29.0	19.9
90295 2003 ES_{28}	14.4	X	134.54069	160.96627	24.33262	15.12336	0.1926586	0.18098004	3.0953916	21	9 10.1	19.7
90296 2003 EY_{29}	14.4	X	20.13145	160.37767	161.51125	15.01708	0.0701145	0.18523767	3.0477769	21	9 27.6	18.4
90297 2003 EL_{31}	16.1	X	154.21211	135.19649	145.08333	2.97985	0.1746572	0.25442319	2.4665973	21	—	—
90298 2003 EA_{32}	15.7	X	15.98685	63.36149	217.95891	4.84929	0.1213350	0.23349890	2.6118375	21	7 31.6	18.6
90299 2003 ED_{34}	14.9	X	53.82256	304.50997	327.53491	15.22314	0.2087435	0.23384588	2.6092533	21	9 27.4	18.5
90300 2003 EJ_{40}	15.1	X	113.66072	145.21267	141.22081	26.38881	0.1133197	0.24414516	2.5353464	21	12 21.4	19.5
90301 2003 EN_{45}	15.9	X	327.41185	68.19398	212.14984	7.49831	0.1869026	0.22225032	2.6992376	21	4 23.1	19.0
90302 2003 EJ_{48}	15.2	X	349.12088	277.03830	294.62334	9.46699	0.1074739	0.21777921	2.7360568	21	3 2.5	18.7
90303 2003 EL_{49}	15.7	X	262.67273	338.94706	358.69873	11.51946	0.2208647	0.27629815	2.3346264	21	4 4.9	19.5
90304 2003 EM_{53}	14.9	X	281.67814	150.49331	149.62495	17.22983	0.1712757	0.21606748	2.7504881	21	3 24.9	19.1
90305 2003 FX	15.2	X	43.97103	306.62323	108.23302	24.00166	0.3000925	0.26322615	2.4112933	21	—	
90306 2003 FO_{4}	14.7	X	64.34896	113.13968	129.33408	22.98959	0.1559949	0.17661237	3.1462168	21	8 30.1	19.1
90307 2003 FB_{10}	15.3	X	97.50217	176.70703	108.46203	2.43020	0.2099750	0.18955323	3.0013405	21	11 30.1	20.2
90308 Johney	15.6	X	150.43394	65.12408	187.84857	6.61994	0.0492808	0.24720320	2.5143939	21	12 15.0	19.2
90309 2003 FZ_{15}	15.2	X	130.26674	308.54568	332.56526	11.01260	0.2396891	0.18952114	3.0016792	21	12 22.5	20.6
90310 2003 FH_{16}	14.8	X	337.27851	48.83595	356.71139	13.67029	0.1047172	0.24377787	2.5378924	21	11 16.8	17.9
90311 2003 FM_{19}	15.3	X	61.61917	139.64327	127.76395	8.30769	0.1741895	0.23635665	2.5907420	21	10 7.5	18.8
90312 2003 FL_{22}	16.2	X	238.60165	235.84526	142.25256	6.15368	0.1436379	0.27880521	2.3206098	21	5 14.7	19.7
90313 2003 FY_{23}	15.9	X	177.35350	322.31021	346.31834	2.01458	0.1887158	0.25910496	2.4367945	21	—	—
90314 2003 FL_{36}	14.7	X	73.41626	283.20942	7.49057	11.49791	0.1597321	0.18597102	3.0397594	21	11 4.1	19.2
90315 2003 FK_{37}	16.1	X	215.82950	104.62051	237.89398	2.10406	0.2186204	0.26950763	2.3736791	21	3 4.1	20.2
90316 2003 FZ_{38}	14.5	X	15.79670	92.27279	174.66583	10.01964	0.1922665	0.17411009	3.1762896	21	7 14.3	18.2
90317 Williamcutlip	16.1	X	273.47102	125.47585	193.62317	6.28441	0.1315340	0.27487006	2.3427058	21	4 4.1	19.3
90318 2003 FO_{49}	14.8	X	120.36663	130.06593	164.61509	10.88758	0.0943755	0.19283404	2.9672007	21	12 24.7	19.5
90319 2003 FO_{50}	15.7	X	110.83809	30.35354	293.97487	1.79703	0.1834293	0.25269412	2.4778364	21	—	—
90320 2003 FK_{63}	16.6	X	231.30519	325.25105	157.57411	5.72334	0.0840614	0.29582184	2.2307414	21	10 7.4	19.2

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
90321 2003 FZ_{67}	14.8	X	319.73129	297.63173	33.60940	15.44863	0.1495866	0.22992169	2.6388584	21	6 27.5	18.1
90322 2003 FR_{70}	15.6	X	21.95501	23.07194	150.12445	5.03841	0.0339864	0.21705888	2.7421066	21	3 11.1	19.0
90323 2003 FV_{72}	15.1	X	74.39733	190.83854	101.90412	7.93764	0.2377623	0.18388502	3.0627048	21	11 21.4	19.9
90324 2003 FL_{74}	14.9	X	87.56051	202.54561	103.84871	10.25942	0.1295197	0.18890409	3.0082122	21	12 8.8	19.5
90325 2003 FW_{76}	15.2	X	189.09152	47.40853	255.72103	4.62194	0.1597188	0.20455678	2.8527264	21	1 2.3	19.8
90326 2003 FA_{79}	15.8	X	338.37917	347.38308	349.97700	6.19080	0.2532302	0.28515835	2.2860128	21	8 13.6	16.8
90327 2003 FO_{83}	14.9	X	74.99543	118.04788	49.92493	13.84755	0.1093691	0.22260879	2.6963391	21	5 26.4	18.3
90328 Haryou	15.4	X	315.81531	311.06301	343.14067	6.43441	0.1235467	0.27669501	2.3323936	21	4 25.2	18.2
90329 2003 FY_{87}	15.7	X	279.93290	217.95017	71.66797	7.34329	0.1327578	0.26989850	2.3713868	21	3 8.1	19.1
90330 2003 FT_{90}	15.7	X	326.40967	71.01084	236.63312	6.17577	0.1391430	0.27955459	2.3164609	21	6 3.9	18.0
90331 2003 FT_{91}	15.7	X	207.71563	264.38442	57.40575	8.44797	0.1789059	0.26355546	2.4092842	21	2 4.7	19.7
90332 2003 FH_{92}	15.1	X	342.14065	124.45156	122.90334	5.92444	0.1053335	0.21967395	2.7203013	21	4 16.6	18.3
90333 2003 FW_{92}	15.2	X	275.78440	54.59334	145.73477	7.52559	0.1354453	0.20377476	2.8600204	21	—	—
90334 2003 FC_{94}	15.0	X	25.61888	103.16199	210.07951	19.83736	0.1652983	0.28669558	2.2778339	21	10 20.5	17.3
90335 2003 FD_{96}	15.1	X	141.64403	334.13415	238.38153	4.79585	0.1432471	0.18666746	3.0321939	21	10 9.2	20.0
90336 2003 FP_{97}	15.1	X	92.16224	127.88235	140.80203	0.58908	0.1400901	0.18641177	3.0349660	21	10 29.9	19.7
90337 2003 FQ_{97}	11.6	X	80.97771	72.33472	232.90574	19.35107	0.0787957	0.08226874	5.2357570	21	11 7.7	18.6
90338 2003 FH_{102}	14.9	X	118.46718	261.02535	132.77215	6.95386	0.1098115	0.26329639	2.4108644	21	1 21.3	17.8
90339 2003 FF_{104}	14.5	X	86.32147	244.59949	42.87029	11.92527	0.1348746	0.18451579	3.0557210	21	11 13.4	19.0
90340 2003 FQ_{106}	15.3	X	305.03413	82.25762	139.98016	5.72804	0.0854830	0.21145966	2.7903008	21	1 22.8	19.2
90341 2003 GT_{5}	15.6	X	112.21840	164.30516	182.77915	8.04246	0.1342336	0.25431270	2.4673117	21	—	—
90342 2003 GQ_{6}	15.2	X	169.15688	92.02004	156.16538	2.41005	0.1355153	0.19152323	2.9807239	21	12 16.3	19.9
90343 2003 GO_{8}	15.7	X	264.90350	336.59848	303.47875	1.95340	0.0344639	0.21420869	2.7663768	21	2 21.5	19.6
90344 2003 GA_{9}	15.2	X	323.29543	151.02488	23.42205	6.44058	0.0479970	0.26026096	2.4295735	21	—	—
90345 2003 GC_{14}	15.7	X	223.25534	183.84373	132.08988	7.70473	0.1328409	0.26835309	2.3804825	21	2 7.9	19.2
90346 2003 GP_{15}	15.9	X	25.87409	327.64263	315.89798	2.44074	0.0843500	0.23371580	2.6102213	21	8 19.1	18.9
90347 2003 GF_{35}	15.2	X	89.68595	354.56735	142.57385	14.00409	0.0964262	0.21934161	2.7230484	21	5 10.1	19.1
90348 2003 GA_{36}	14.7	X	25.57680	148.20360	122.62366	17.85846	0.1901029	0.17588050	3.1549386	21	8 10.6	18.3
90349 2003 GV_{39}	14.7	X	33.21302	232.88610	52.15157	13.35087	0.1331361	0.17743565	3.1364771	21	9 11.3	18.9
90350 2003 GO_{42}	14.8	X	66.27888	45.13476	114.73780	13.39925	0.2253554	0.22294712	2.6936106	21	5 26.1	18.2
90351 2003 GW_{42}	14.4	X	16.54808	188.85631	71.09053	16.55676	0.2209067	0.17405320	3.1769816	21	7 10.0	17.8
90352 2003 GK_{49}	15.1	X	183.58850	136.82041	165.22921	9.42397	0.0706571	0.20302276	2.8670784	21	—	—
90353 2003 GC_{50}	14.8	X	82.18928	349.82071	275.60839	8.06270	0.0892942	0.18426495	3.0584935	21	10 4.3	19.3
90354 2003 GD_{50}	15.6	X	214.71115	64.17915	265.29422	7.96865	0.1965898	0.26646581	2.3917093	21	2 13.5	19.8
90355 2003 HC_{12}	14.9	X	308.57503	205.62786	131.32388	14.53619	0.1909993	0.22229345	2.6988885	21	6 12.7	18.4
90356 2003 HW_{12}	16.1	X	345.53961	227.17275	154.35504	7.12509	0.1065770	0.29345378	2.2427261	21	11 16.6	18.2
90357 2003 HC_{20}	15.7	X	254.24575	96.28459	234.84688	0.92510	0.0692411	0.21759059	2.7376377	21	4 10.2	19.6
90358 2003 HP_{26}	14.3	X	96.81641	196.49332	60.11540	18.14095	0.1594971	0.18206549	3.0830764	21	10 27.0	19.2
90359 2003 HY_{31}	14.7	X	125.34457	46.61084	197.22591	9.65295	0.0557106	0.18491989	3.0512676	21	10 28.0	19.2
90360 2003 HJ_{43}	15.1	X	66.18372	255.42709	42.38634	3.48408	0.0717026	0.18345071	3.0675368	21	10 26.8	19.3
90361 2003 HY_{48}	15.6	X	244.84606	177.44896	215.09651	6.28220	0.0960865	0.27653486	2.3332939	21	6 13.9	18.8
90362 2003 HZ_{51}	15.1	X	45.43483	252.21740	91.89753	10.36127	0.0741040	0.18712279	3.0272730	21	11 28.8	19.3
90363 2003 HH_{52}	14.3	X	358.92045	248.24775	89.59162	14.86952	0.0390086	0.17885047	3.1199142	21	9 21.1	18.8
90364 2003 JS_{7}	15.0	X	355.48304	79.16060	184.62819	11.42662	0.0457678	0.22231952	2.6986775	21	6 2.5	18.6
90365 2003 JL_{10}	14.9	X	194.54829	310.08524	181.79200	12.55756	0.1320448	0.23306111	2.6151073	21	8 23.7	19.2
90366 2003 JJ_{13}	14.5	X	358.44509	119.60551	179.42809	7.62077	0.1734614	0.17132359	3.2106375	21	7 22.9	18.2
90367 2003 LC_{5}	17.8	X	100.03048	313.83464	86.83397	16.88011	0.4262052	0.79340858	1.1555927	21	—	—
90368 2003 MG	13.7	X	250.41880	123.21442	253.53383	31.54261	0.3476046	0.21714701	2.7413647	21	5 8.4	18.8
90369 2003 MN_{1}	14.4	X	57.55397	152.43145	168.23967	23.22927	0.0833103	0.17982616	3.1086187	21	11 18.0	19.2
90370 Jókaimór	15.0	X	39.19980	88.20546	273.83370	8.26027	0.1023321	0.17784218	3.1316956	21	12 13.4	19.1
90371 2003 PV_{7}	15.0	X	312.41521	358.45217	281.20914	8.95916	0.1201641	0.20921672	2.8102079	21	4 6.3	18.8
90372 2003 QR_{88}	13.7	X	85.16040	132.01312	207.04227	14.04968	0.2231506	0.17325973	3.1866739	21	—	—
90373 2003 SZ_{219}	18.6	X	186.69064	218.72891	189.41167	9.87206	0.2045618	0.47503239	1.6267491	21	4 18.7	20.2
90374 2003 UO_{60}	14.5	X	355.37584	155.64668	328.57553	9.80731	0.1838910	0.17646304	3.1479915	21	—	—
90375 2003 UX_{257}	14.6	X	247.93086	238.47167	78.02113	10.69800	0.0743315	0.19252515	2.9703736	21	3 24.2	19.2
90376 Kossuth	15.1	X	155.39228	329.49850	36.98692	11.86374	0.0437222	0.18327282	3.0695215	21	2 12.7	19.7
90377 Sedna	1.3	X	358.25439	311.12812	144.20973	11.93118	0.8474319	0.00008805	500.3826436	21	11 23.4	20.6
90378 2003 WL_{23}	15.4	X	216.75953	6.85490	158.96616	2.71978	0.0764742	0.21728366	2.7402152	21	11 5.1	19.2
90379 2003 WO_{56}	14.2	X	222.32380	192.56504	142.40334	15.43531	0.1089389	0.17637149	3.1490808	21	3 16.7	19.2
90380 2003 WX_{68}	12.4	X	121.17754	66.18278	71.85982	9.93820	0.0988331	0.08422485	5.1543737	21	6 18.0	19.4
90381 2003 WA_{69}	15.1	X	58.35904	228.35711	72.27715	9.85778	0.1365994	0.21563875	2.7541326	21	11 5.8	18.9
90382 2003 WL_{73}	16.8	X	333.05188	13.73341	31.84107	2.86002	0.2300266	0.27344310	2.3508490	21	11 29.2	18.2
90383 Johnloiacono	16.2	X	91.62194	335.58098	1.08504	1.70329	0.2167968	0.22926167	2.6439206	21	—	—
90384 2003 WV_{112}	15.1	X	185.33189	16.61595	336.42654	4.39240	0.1539197	0.18853506	3.0121364	21	2 27.7	19.9
90385 2003 WU_{121}	16.1	X	118.08332	316.08799	44.54276	4.97106	0.1852329	0.28912948	2.2650326	21	—	—
90386 2003 WO_{126}	15.5	X	124.63468	80.69934	291.89536	14.99546	0.3388648	0.23622236	2.5917238	21	2 4.2	19.6
90387 2003 WY_{140}	14.7	X	145.09912	346.63961	72.19054	12.53728	0.1238560	0.18796916	3.0181789	21	4 12.9	19.5
90388 Philchristensen	14.8	X	172.62902	293.81949	51.24085	15.73807	0.1702670	0.23559224	2.5963430	21	2 8.1	19.2
90389 2003 WQ_{153}	14.8	X	354.14707	235.02542	113.52303	10.05113	0.1738006	0.21657489	2.7461904	21	10 6.4	17.7
90390 2003 XH_{5}	14.8	X	4.62068	326.82132	14.61204	7.34184	0.2389074	0.21218394	2.7839475	21	10 17.6	17.3
90391 2003 XM_{7}	16.1	X	318.19140	287.90284	125.89688	5.21082	0.1361328	0.27121662	2.3636973	21	11 7.7	18.2
90392 2003 XB_{12}	14.5	X	296.17349	258.11160	230.96611	23.45914	0.1582857	0.21912686	2.7248273	21	12 22.3	17.8
90393 2003 XD_{14}	15.0	X	93.29685	344.54121	54.02054	16.21267	0.1443294	0.23169906	2.6253459	21	1 4.9	18.3
90394 2003 XK_{14}	14.8	X	89.80143	91.56334	38.41866	22.20188	0.0713012	0.24064867	2.5598454	21	4 21.9	18.0
90395 2003 XD_{15}	15.2	X	345.25785	235.62192	288.79270	23.61646	0.1912710	0.28356704	2.2945572	21	—	—
90396 Franklopez	15.7	X	105.74552	308.24651	109.31670	10.63586	0.0889099	0.23914559	2.5705603	21	2 8.3	18.9
90397 Rasch	16.0	X	172.60584	169.74568	194.37413	6.30662	0.2669924	0.24471223	2.5314281	21	2 27.9	20.4
90398 2003 YA_{16}	15.7	X	198.63201	127.00305	356.64209	6.02226	0.0657081	0.25765806	2.4459086	21	8 26.5	19.0
90399 2003 YN_{16}	15.5	X	79.97356	68.86329	68.24926	8.84738	0.1225632	0.24026645	2.5625595	21	4 25.9	18.7
90400 2003 YS_{26}	16.2	X	5.79740	73.11743	339.38189	6.93354	0.0922570	0.27543841	2.3394820	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
90401 2003 YJ_{43}	16.2	X	156.44134	186.92446	196.09915	0.70998	0.1872553	0.29575042	2.2311005	21	2 26.8	19.2
90402 2003 YW_{43}	14.6	X	339.62884	88.11931	119.75216	16.50832	0.1871762	0.17405825	3.1769202	21	2 15.9	18.5
90403 2003 YE_{45}	17.7	X	198.71067	306.79524	286.25531	19.00609	0.2800435	0.71874816	1.2342929	21	—	—
90404 2003 YO_{53}	15.9	X	75.64053	51.64260	44.09772	1.23768	0.1193926	0.23906179	2.5711610	21	2 18.3	18.7
90405 2003 YW_{53}	15.4	X	55.58056	238.13862	88.56428	4.21232	0.0614557	0.21765135	2.7371282	21	11 22.9	19.0
90406 2003 YW_{61}	15.5	X	158.83752	237.74837	133.33752	4.19922	0.1411800	0.23963475	2.5670610	21	2 17.9	19.2
90407 2003 YB_{73}	14.8	X	263.68888	115.24860	53.51869	5.92669	0.0283507	0.22229858	2.6988470	21	—	—
90408 2003 YG_{79}	15.4	X	175.83607	13.31282	84.24113	6.22026	0.1388203	0.19550276	2.9401362	21	6 24.3	20.2
90409 2003 YT_{80}	14.7	X	5.88509	135.19943	49.86253	3.70054	0.1478531	0.17804969	3.1292619	21	3 5.9	18.4
90410 2003 YS_{84}	15.9	X	170.40585	316.45884	277.94650	6.86298	0.1703669	0.27481905	2.3429957	21	12 11.4	19.6
90411 2003 YH_{85}	16.1	X	64.48841	278.82275	109.88759	7.84365	0.1730809	0.28450888	2.2894904	21	—	—
90412 2003 YY_{90}	15.3	X	297.71703	309.18446	114.23730	8.84371	0.2131961	0.21258948	2.7804059	21	9 23.8	18.5
90413 2003 YD_{98}	15.7	X	119.87387	251.83176	252.40589	3.68366	0.1003257	0.25036698	2.4931668	21	6 21.9	19.1
90414 Karpov	15.9	X	240.79406	157.21633	336.62889	6.34554	0.0634736	0.26715255	2.3876088	21	10 30.1	19.0
90415 2003 YU_{113}	15.1	X	24.33925	355.43269	114.41545	12.88532	0.1402649	0.22298178	2.6933314	21	—	—
90416 2003 YK_{118}	18.6	X	301.41107	233.05836	326.87991	7.83868	0.4918887	0.44663896	1.6949816	21	—	—
90417 2003 YF_{137}	15.8	X	107.35912	213.46934	121.22981	4.82582	0.2134249	0.27961880	2.3161062	21	—	—
90418 2003 YJ_{137}	15.6	X	355.47578	223.36010	87.95701	3.22232	0.0613037	0.19955822	2.9001668	21	8 6.8	19.1
90419 2003 YA_{138}	16.2	X	226.58896	106.82241	1.74972	2.99282	0.1416113	0.25942868	2.4347669	21	8 30.9	19.7
90420 2003 YX_{138}	15.1	X	97.97421	30.03232	151.90981	2.29669	0.0452290	0.19395351	2.9557722	21	7 7.5	19.1
90421 2003 YD_{139}	15.0	X	26.35932	174.61397	267.09639	12.46908	0.1491923	0.22490003	2.6779947	21	—	—
90422 2003 YJ_{142}	14.4	X	54.14171	317.24201	62.87967	14.06001	0.1880769	0.22379663	2.6867898	21	—	—
90423 2003 YH_{149}	15.1	X	231.44747	187.35506	62.57963	15.68756	0.0692781	0.22629840	2.6669511	21	—	—
90424 2003 YB_{152}	15.5	X	338.12450	94.67993	66.30522	15.11313	0.0406788	0.22739767	2.6583493	21	—	—
90425 2004 AK_{2}	15.4	X	239.85928	131.53574	128.62626	3.89135	0.1410235	0.22795879	2.6539852	21	—	—
90426 2004 AL_{3}	15.9	X	336.70143	44.05394	345.53070	5.74138	0.1298615	0.26677033	2.3898888	21	11 1.6	18.3
90427 2004 BS_{1}	15.1	X	319.09878	269.27450	256.29384	13.17214	0.0943465	0.22242895	2.6977923	21	—	—
90428 2004 BL_{30}	15.9	X	279.77394	83.73871	28.28929	1.93608	0.2065365	0.21133968	2.7913568	21	10 26.9	19.2
90429 Wetmore	16.7	X	192.19605	119.00233	40.46942	1.87235	0.1314768	0.25914097	2.4365687	21	9 30.5	20.4
90430 2004 BM_{44}	15.2	X	31.99679	306.06660	146.10539	13.70832	0.2281142	0.22479909	2.6787963	21	—	—
90431 2004 BY_{55}	14.7	X	110.89091	328.30052	168.42193	11.31955	0.0256813	0.18848452	3.0126748	21	5 25.9	19.1
90432 2004 BG_{56}	16.9	X	349.23889	230.40171	251.00227	1.09296	0.1753997	0.27940323	2.3172974	21	—	—
90433 2004 BD_{62}	16.4	X	49.45941	142.14862	200.93656	1.82479	0.1660141	0.27116325	2.3640074	21	12 30.7	19.6
90434 2004 BF_{69}	15.5	X	181.49851	12.95640	31.49854	10.24889	0.1746022	0.24613924	2.5216346	21	4 22.7	19.6
90435 2004 BD_{74}	15.1	X	119.93355	261.27103	188.40754	0.70716	0.1217591	0.18246661	3.0785564	21	4 18.4	19.5
90436 2004 BH_{81}	16.0	X	320.42968	37.32539	90.72146	1.68720	0.1259147	0.21972946	2.7198431	21	—	—
90437 2004 BW_{82}	15.8	X	329.96421	59.00171	355.90630	10.51290	0.3196932	0.21254583	2.7807866	21	11 7.5	17.7
90438 2004 BP_{83}	15.1	X	141.53403	39.11219	161.42343	23.30714	0.1131766	0.25690370	2.4506943	21	10 4.3	19.0
90439 2004 BS_{83}	14.7	X	78.76483	160.38764	31.71444	19.04504	0.1045668	0.23923004	2.5699553	21	7 6.3	18.5
90440 2004 BV_{83}	14.9	X	355.58263	203.65690	314.90842	12.95185	0.1216854	0.22582715	2.6706601	21	1 3.7	18.2
90441 2004 BC_{87}	15.8	X	225.06038	62.75206	139.50078	7.20725	0.1305201	0.26782229	2.3836267	21	—	—
90442 2004 BR_{89}	16.0	X	315.90583	309.52272	273.79022	6.39321	0.1062446	0.28652231	2.2787521	21	1 18.7	18.7
90443 2004 BS_{90}	14.9	X	321.03154	102.45294	152.75270	5.74785	0.1015708	0.17938773	3.1136817	21	3 30.7	19.0
90444 2004 BQ_{95}	14.1	X	68.16341	219.20848	321.19101	16.28538	0.1524551	0.18174619	3.0866864	21	6 12.5	18.5
90445 2004 BY_{101}	16.2	X	296.78605	3.38971	175.70511	3.57640	0.1635038	0.27745527	2.3281309	21	—	—
90446 Truesdell	15.5	X	200.26221	222.17737	34.20484	5.60816	0.2154976	0.27275378	2.3548082	21	—	—
90447 Emans	16.0	X	76.11188	351.85527	35.71357	8.08355	0.1109118	0.27888356	2.3201752	21	—	—
90448 2004 BB_{114}	15.8	X	269.11332	10.37486	240.05989	1.99229	0.2389874	0.27985221	2.3148182	21	—	—
90449 Brucestephenson	14.5	X	36.38305	181.92766	24.90257	19.98594	0.2165191	0.18370653	3.0646883	21	5 29.6	18.1
90450 Cyriltyson	14.2	X	214.94631	234.44422	93.67395	20.42128	0.0655961	0.17359276	3.1825970	21	3 8.3	19.4
90451 2004 BK_{122}	14.0	X	49.53619	103.65848	25.79788	22.44861	0.0662146	0.17428353	3.1741819	21	3 12.6	18.5
90452 2004 BO_{122}	14.1	X	102.85822	320.39643	139.89830	24.10984	0.3194059	0.17968849	3.1102064	21	5 14.8	19.4
90453 2004 CM	14.8	X	359.31865	224.01165	103.73666	13.09535	0.0987475	0.18897696	3.0074389	21	9 8.9	18.7
90454 2004 CV	15.4	X	263.10091	42.25796	161.54730	7.89499	0.1786974	0.27393292	2.3480458	21	—	—
90455 Irenehernandez	15.6	X	274.88367	336.92886	218.11464	1.91173	0.2025684	0.27423211	2.3463376	21	—	—
90456 2004 CV_{2}	13.4	X	70.25706	335.49756	178.49638	12.46219	0.1693091	0.12466387	3.9686456	21	5 20.3	18.9
90457 2004 CY_{7}	15.0	X	318.79579	181.72268	121.11809	14.91076	0.2129634	0.24303861	2.5430361	21	5 10.7	18.2
90458 2004 CM_{11}	14.5	X	190.68619	105.96029	156.17671	10.00178	0.0265951	0.16102846	3.3460644	21	—	—
90459 2004 CQ_{16}	15.1	X	89.13299	5.01073	154.78977	7.81811	0.1405668	0.18408598	3.0604755	21	6 12.6	19.5
90460 2004 CD_{35}	15.9	X	282.47410	300.38261	286.46803	3.90342	0.1807307	0.27903087	2.3193585	21	—	—
90461 Matthewgraham	15.2	X	86.49395	151.68510	358.84509	2.07162	0.2199606	0.18318463	3.0705065	21	6 7.8	19.5
90462 2004 CA_{36}	15.2	X	143.89213	195.12938	149.25036	23.68499	0.2217255	0.27997497	2.3141415	21	1 2.6	18.8
90463 Johnrichard	15.2	X	2.17021	280.63387	281.99062	8.95560	0.0440302	0.17894583	3.1188058	21	3 21.0	19.6
90464 2004 CA_{42}	15.7	X	96.09793	189.44869	48.33768	4.31547	0.1285884	0.25501064	2.4628078	21	10 3.3	19.1
90465 2004 CT_{49}	16.6	X	13.16761	312.89113	325.01025	4.73875	0.1484878	0.30538663	2.1839165	21	7 29.4	18.0
90466 2004 CG_{80}	15.7	X	347.10594	4.51258	30.69788	5.68021	0.2421905	0.26671313	2.3902305	21	12 16.9	17.5
90467 2004 CU_{91}	15.8	X	201.69974	191.95919	5.82806	9.07615	0.0844830	0.26257242	2.4152939	21	12 1.4	19.3
90468 2004 CV_{91}	14.8	X	8.10841	137.50823	28.05997	8.65224	0.1314512	0.17493937	3.1662437	21	2 16.3	18.7
90469 2004 CY_{94}	16.4	X	168.76812	310.03141	187.66988	3.40143	0.0797538	0.25089951	2.4896378	21	8 6.9	19.9
90470 2004 CH_{97}	15.8	X	263.05904	44.23173	165.69942	5.03969	0.1063453	0.27367376	2.3495279	21	—	—
90471 Andrewdrake	15.9	X	277.23812	140.69518	60.38993	6.28883	0.1427495	0.27779262	2.3262457	21	—	—
90472 Mahabal	16.2	X	119.78914	124.08885	112.27053	3.12706	0.1676312	0.25468358	2.4649158	21	10 28.5	20.1
90473 2004 CT_{102}	16.0	X	6.62376	235.31142	208.53321	8.82104	0.2332367	0.22100607	2.7093592	21	—	—
90474 2004 CU_{104}	15.9	X	332.04880	355.16310	229.01668	2.65574	0.1068203	0.28732351	2.2745140	21	2 10.8	18.5
90475 2004 CC_{105}	14.2	X	112.61409	285.26637	166.10778	17.68665	0.1808955	0.17870284	3.1216323	21	4 23.7	19.1
90476 2004 CE_{105}	16.0	X	205.51382	178.21286	48.75654	1.97125	0.1342345	0.26634831	2.3924126	21	—	—
90477 2004 CH_{106}	16.2	X	86.67973	290.44473	187.87610	12.59093	0.1457294	0.23626859	2.5913857	21	4 12.4	19.3
90478 2004 CX_{108}	14.3	X	8.58739	187.93048	323.58365	19.82677	0.0158938	0.16979240	3.2299109	21	2 4.5	18.9
90479 Donalek	14.8	X	214.11349	30.25316	338.78114	13.65626	0.1050525	0.23629019	2.5912278	21	4 4.5	19.0
90480 Ulrich	14.4	X	349.38642	16.13824	172.00283	19.59389	0.1025070	0.17068219	3.2186759	21	2 12.9	18.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
90481 Wollstonecraft	15.4	X	268.02287	272.86131	231.16765	9.12545	0.2472722	0.21125538	2.7920994	21	11 14.2	18.8
90482 Orcus	2.2	X	182.84796	72.70617	268.72493	20.58485	0.2289798	0.00402970	39.1099599	21	2 22.6	19.1
90483 2004 DM_{4}	15.4	X	205.07461	237.85330	356.32992	12.24505	0.0636012	0.21496582	2.7598773	21	—	—
90484 2004 DU_{6}	15.9	X	68.84823	353.66172	156.14312	6.03943	0.0700353	0.23684234	2.5871989	21	4 18.6	19.0
90485 2004 DY_{6}	14.7	X	203.12282	179.40163	165.62735	13.66397	0.2889441	0.23214254	2.6220012	21	3 2.0	19.5
90486 2004 DL_{12}	15.3	X	71.85395	323.92380	144.23790	13.16881	0.1116382	0.23050205	2.6344271	21	3 2.9	18.3
90487 Witherspoon	14.5	X	255.10232	111.02590	162.42503	21.38578	0.0150996	0.16918864	3.2375904	21	2 10.4	19.3
90488 2004 DX_{12}	16.1	X	340.63490	18.40356	154.01037	14.25557	0.1364117	0.22437303	2.6821863	21	—	—
90489 2004 DH_{19}	16.9	X	340.17021	91.39827	357.44544	2.56254	0.1491697	0.27322167	2.3521190	21	—	—
90490 2004 DU_{20}	14.8	X	125.99672	153.72400	28.13729	8.72189	0.0779640	0.19247707	2.9708682	21	8 18.5	19.3
90491 2004 DW_{22}	15.1	X	296.69168	333.24143	140.25124	8.76308	0.1791880	0.21139802	2.7908432	21	12 2.6	18.2
90492 2004 DQ_{34}	15.4	X	289.88333	304.39042	267.52495	11.55472	0.1161897	0.22333112	2.6905220	21	—	—
90493 2004 DM_{37}	15.5	X	82.44658	338.15003	162.85915	13.73208	0.0981518	0.23511435	2.5998600	21	5 2.9	19.0
90494 2004 DY_{40}	16.3	X	259.69821	186.24075	78.72781	4.08411	0.1375441	0.28030919	2.3123017	21	1 8.7	19.6
90495 2004 DW_{43}	16.7	X	55.37579	354.86669	51.79008	2.82648	0.2019270	0.27736077	2.3286597	21	—	—
90496 2004 DH_{48}	16.2	X	18.47853	256.66659	172.43928	4.66142	0.2039203	0.27483913	2.3428816	21	—	—
90497 2004 DH_{59}	15.7	X	198.09230	115.88965	134.53680	4.96326	0.0345312	0.21410827	2.7672416	21	—	—
90498 2004 DC_{71}	15.7	X	292.35083	257.75250	145.80612	24.91685	0.1334465	0.36833287	1.9274172	21	9 17.8	17.2
90499 2004 EC_{2}	16.4	X	353.95954	101.10856	80.84954	3.57983	0.1286665	0.28340679	2.2954220	21	1 14.8	18.9
90500 2004 EG_{4}	14.2	X	14.00439	192.56024	53.38600	15.30403	0.1074860	0.18266295	3.0763500	21	6 6.2	17.9
90501 2004 EM_{4}	14.7	X	86.75209	74.32153	99.20618	16.67111	0.1351585	0.18340360	3.0680620	21	6 25.9	18.9
90502 Buratti	13.9	X	100.17170	313.90959	175.46569	9.11237	0.1921488	0.12392856	3.9843282	21	5 28.5	19.8
90503 Japhethboyce	15.8	X	115.66987	131.59122	189.19281	2.13789	0.2020960	0.26555121	2.3971977	21	—	—
90504 2004 EC_{14}	16.1	X	200.86415	271.77409	50.68221	6.92209	0.1509125	0.28104115	2.3082850	21	1 25.9	19.7
90505 2004 EM_{16}	16.1	X	264.70510	116.39863	138.47066	3.73863	0.2151677	0.27975863	2.3153344	21	—	—
90506 2004 EU_{17}	15.1	X	210.64104	175.34400	112.54232	10.23498	0.0377165	0.21901289	2.7257724	21	—	—
90507 2004 EY_{17}	14.9	X	199.97607	259.58326	88.19135	13.23153	0.1880102	0.22553542	2.6729626	21	3 8.9	19.6
90508 2004 EE_{18}	15.5	X	346.13737	94.41210	108.77711	13.50429	0.1431313	0.22787077	2.6546685	21	2 14.9	18.7
90509 2004 EN_{18}	15.2	X	350.61893	106.79822	80.41844	12.02184	0.1420246	0.22621602	2.6675986	21	2 1.2	18.4
90510 2004 EW_{20}	14.2	X	354.49524	151.31206	139.07313	25.03828	0.2954362	0.17704345	3.1411076	21	7 2.4	17.3
90511 2004 EZ_{31}	16.1	X	8.60635	29.65531	199.64577	4.95770	0.0408417	0.29125787	2.2539845	21	4 27.9	18.3
90512 2004 EF_{37}	15.4	X	283.73370	126.84081	103.10543	7.06735	0.0865688	0.22062689	2.7124626	21	1 5.9	19.4
90513 2004 EZ_{37}	14.9	X	117.00648	164.88683	225.40086	11.32344	0.1943138	0.22314240	2.6920388	21	1 31.7	18.9
90514 2004 EU_{42}	15.0	X	55.78433	133.41906	101.58366	12.37733	0.0619906	0.18496060	3.0508199	21	7 24.1	19.2
90515 2004 ES_{56}	16.7	X	200.68331	199.33382	41.81485	2.01675	0.1533315	0.26526972	2.3988933	21	—	—
90516 2004 EO_{59}	15.9	X	235.79926	349.92973	265.18239	6.88592	0.0822116	0.27420383	2.3464990	21	—	—
90517 2004 EF_{60}	16.2	X	303.37465	254.64784	329.13149	6.43277	0.0534677	0.27983420	2.3149175	21	1 14.4	19.2
90518 2004 EL_{60}	16.2	X	105.61506	223.95584	343.05040	7.78574	0.1377969	0.30232693	2.1986267	21	9 6.1	19.0
90519 2004 EA_{64}	14.1	X	14.23142	221.15572	183.54955	11.09361	0.3046661	0.21029077	2.8006311	21	—	—
90520 2004 EZ_{65}	15.4	X	125.12830	327.82248	107.04854	12.39977	0.1419188	0.23504798	2.6003494	21	4 9.6	19.4
90521 2004 EK_{66}	15.4	X	104.01484	347.18890	115.56396	13.88326	0.1387663	0.23493787	2.6011618	21	4 20.3	19.2
90522 2004 EA_{74}	14.2	X	347.14117	182.20887	108.08522	23.95437	0.1605269	0.17876687	3.1208869	21	6 22.2	17.9
90523 2004 EX_{79}	15.0	X	324.66258	177.18839	121.68630	15.91992	0.0982893	0.23808064	2.5782201	21	5 31.4	18.3
90524 2004 EV_{92}	16.0	X	132.09493	352.10584	147.00281	9.91839	0.1274284	0.24284328	2.5443996	21	7 2.2	19.9
90525 Karijanberg	16.5	X	173.99846	172.31254	170.36627	1.79400	0.0133080	0.28002324	2.3138755	21	1 8.3	19.2
90526 Paullorenz	16.1	X	336.78584	211.77951	309.08438	6.36459	0.0468090	0.27834501	2.3231670	21	—	—
90527 2004 FB_{15}	16.6	X	259.51590	203.84954	34.82241	0.57399	0.1788353	0.27420451	2.3464951	21	—	—
90528 Raywhite	15.2	X	257.48505	149.12930	210.19215	4.80607	0.1214091	0.24029878	2.5623296	21	5 13.8	18.9
90529 2004 FN_{19}	16.2	X	225.36086	2.59093	259.73171	2.69899	0.0978086	0.27676847	2.3319808	21	—	—
90530 2004 FX_{20}	15.8	X	243.97098	245.98057	358.96837	7.38397	0.0737451	0.27446726	2.3449973	21	—	—
90531 2004 FY_{25}	16.7	X	120.83670	135.07249	25.06547	3.50444	0.0918334	0.29941424	2.2128624	21	7 15.4	19.4
90532 2004 FC_{28}	14.0	X	345.63361	268.19170	20.42858	25.20785	0.2589740	0.17810167	3.1286529	21	5 27.1	17.6
90533 Laurentblind	15.5	X	232.87694	170.37442	102.67063	5.59717	0.0691412	0.22295000	2.6935874	21	1 4.3	19.5
90534 2004 FW_{39}	15.2	X	286.63245	247.93100	37.30077	5.23931	0.1264511	0.17417211	3.1755355	21	3 21.4	19.7
90535 2004 FC_{42}	15.7	X	48.05641	3.74733	228.05001	12.25474	0.1116406	0.24219084	2.5489672	21	7 12.6	18.9
90536 2004 FU_{45}	15.8	X	138.39968	196.75201	150.76813	6.86276	0.1322320	0.27173466	2.3606922	21	—	—
90537 2004 FU_{46}	15.0	X	65.08717	291.14040	282.31665	1.97439	0.1826543	0.18204975	3.0832541	21	7 26.0	18.9
90538 2004 FE_{65}	15.0	X	114.98926	234.83720	193.13452	14.92207	0.1259741	0.22501715	2.6770653	21	3 9.9	18.7
90539 2004 FH_{68}	15.4	X	144.24572	74.15180	25.91831	14.88503	0.0357710	0.23626652	2.5914008	21	5 12.8	19.1
90540 2004 FH_{92}	15.4	X	74.43508	108.57292	24.27435	14.44697	0.0562505	0.22983462	2.6395248	21	4 2.8	18.7
90541 2004 FD_{93}	14.8	X	324.87947	135.23919	186.48702	16.52639	0.0779234	0.18434692	3.0575868	21	7 1.1	19.1
90542 2004 FG_{94}	13.5	X	251.15177	308.98668	41.45902	22.63104	0.1006744	0.17399101	3.1777387	21	5 1.6	18.2
90543 2004 FO_{94}	14.7	X	351.88640	241.93734	46.69142	13.44135	0.2108819	0.24422913	2.5347652	21	6 21.5	16.9
90544 2004 FW_{95}	14.7	X	26.55747	109.77514	44.84377	8.48481	0.1690268	0.17330403	3.1861308	21	3 6.9	18.4
90545 2004 FG_{97}	16.1	X	359.82444	194.92072	76.93651	5.95057	0.1957375	0.29578463	2.2309285	21	6 12.5	17.3
90546 2004 FW_{109}	16.5	X	201.16103	196.26266	56.92074	2.26061	0.1546361	0.26650762	2.3914591	21	—	—
90547 2004 FY_{109}	15.4	X	101.07704	221.72541	11.23519	2.40331	0.1732511	0.19145788	2.9814021	21	9 29.7	20.0
90548 2004 FD_{110}	16.2	X	260.75105	9.91514	194.18812	6.24860	0.0609488	0.26898254	2.3767672	21	—	—
90549 2004 FP_{110}	16.7	X	308.78570	182.37639	32.38248	1.89999	0.0762252	0.27923202	2.3182445	21	1 5.4	19.7
90550 2004 FS_{116}	15.1	X	246.76889	94.44736	123.01971	9.77486	0.1019098	0.21193345	2.7861407	21	—	—
90551 2004 FR_{121}	14.4	X	167.20367	209.11946	188.80007	32.24767	0.0060759	0.17134864	3.2103246	21	3 29.5	18.8
90552 2004 FM_{124}	16.3	X	178.93093	111.53612	217.58776	1.87177	0.1877060	0.27736959	2.3286103	21	1 14.2	19.9
90553 2004 FQ_{126}	14.7	X	339.96933	132.13851	194.01632	9.95937	0.1077660	0.18805277	3.0172843	21	7 27.7	18.5
90554 2004 FE_{129}	15.5	X	27.06767	5.65553	140.93689	14.80401	0.1856991	0.22695027	2.6618418	21	2 4.9	18.1
90555 2004 FM_{131}	14.7	X	81.72312	242.13810	31.62259	10.93472	0.1104902	0.19257120	2.9699000	21	10 22.2	19.1
90556 2004 FO_{138}	15.8	X	324.47755	125.94738	52.74803	23.89863	0.2125615	0.27681613	2.3317131	21	—	—
90557 2004 FK_{141}	15.4	X	109.85873	150.07077	188.61406	6.44003	0.1407251	0.26713426	2.3877177	21	—	—
90558 2004 FV_{142}	14.4	X	89.88546	23.89248	48.06730	22.56851	0.0672027	0.22353150	2.6889139	21	2 14.6	18.4
90559 2004 FW_{142}	14.9	X	153.35909	202.40480	204.84093	11.60898	0.1761820	0.22981624	2.6396655	21	3 31.7	19.1
90560 2004 FY_{142}	15.6	X	59.43144	346.20331	31.41463	9.81581	0.0512560	0.26486709	2.4013237	21	—	—

Planet		H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
		m		°	°	°	°		°				
90561	2004 FQ_{143}	15.8	X	159.40544	157.40761	187.02647	6.71957	0.1348754	0.27432048	2.3458337	21	1 8.1	19.1
90562	2004 FR_{143}	16.0	X	265.10039	159.52863	162.39466	6.28431	0.1941097	0.28599312	2.2815623	21	3 22.9	19.4
90563	2004 FL_{147}	14.7	X	13.63544	38.20372	182.23514	27.88936	0.1637220	0.17151891	3.2081995	21	5 8.6	18.7
90564	Markjarnyk	14.1	X	56.14752	309.56560	230.41157	21.60115	0.1799578	0.17740745	3.1368096	21	5 28.9	18.0
90565	2004 GA_{3}	15.3	X	1.01420	124.14006	98.10524	12.25896	0.1432225	0.23216568	2.6218270	21	4 12.9	18.3
90566	2004 GS_{5}	14.7	X	356.33292	180.82589	71.69428	13.25251	0.2225407	0.17505750	3.1648191	21	5 14.8	18.0
90567	2004 GC_{9}	14.7	X	82.40196	257.48081	40.19739	11.11799	0.1099684	0.19557121	2.9394502	21	11 19.6	19.1
90568	2004 GV_{9}	3.8	X	41.40487	294.21259	250.63673	21.96270	0.0750086	0.00362431	41.9745172	21	5 12.4	19.8
90569	2004 GY_{14}	12.6	X	31.14713	36.71385	303.25764	3.68452	0.0304434	0.08249459	5.2261965	21	10 13.6	19.4
90570	2004 GO_{15}	16.9	X	307.03984	342.45990	150.05729	22.10617	0.0559848	0.37998888	1.8877977	21	—	—
90571	2004 GQ_{15}	15.2	X	355.25294	191.18937	130.94511	20.39061	0.2814994	0.24136503	2.5547779	21	9 7.6	17.0
90572	2004 GN_{17}	13.8	X	121.51314	166.33339	116.48675	14.19200	0.2527440	0.13931914	3.6852097	21	12 13.7	20.1
90573	2004 GH_{18}	15.3	X	270.18296	173.19076	124.88648	15.12736	0.1008844	0.22550776	2.6731812	21	3 18.5	19.4
90574	2004 GS_{21}	15.2	X	257.49682	157.92195	171.90938	12.14047	0.1967302	0.22500203	2.6771852	21	3 31.6	19.4
90575	2004 GE_{23}	16.9	X	237.74717	191.01375	42.17023	2.78648	0.1382508	0.27007404	2.3703592	21	—	—
90576	2004 GA_{29}	15.3	X	162.59383	271.62061	191.82499	11.52597	0.0175466	0.18187532	3.0852252	21	6 14.3	19.9
90577	2004 GK_{33}	16.3	X	294.32446	87.67623	54.69509	5.72034	0.1537097	0.26725614	2.3869918	21	—	—
90578	2004 GM_{36}	16.0	X	56.12836	315.20567	254.17529	2.82220	0.1396739	0.29444530	2.2376885	21	6 30.2	18.1
90579	Gordonnelson	15.2	X	54.09027	314.63816	214.68790	12.51093	0.2124013	0.23199476	2.6231146	21	5 11.9	17.8
90580	2004 GE_{73}	16.0	X	342.99920	78.26461	111.37944	3.95267	0.2102631	0.22330925	2.6906977	21	1 11.1	19.1
90581	2004 HJ_{6}	14.9	X	14.07543	149.99917	72.42477	6.08179	0.1925875	0.17290223	3.1910650	21	5 10.8	18.2
90582	2004 HU_{28}	14.3	X	296.65695	221.28159	70.28767	16.24489	0.0865179	0.17001727	3.2270623	21	4 21.3	19.0
90583	2004 HW_{52}	14.9	X	347.14370	351.47488	261.69200	9.30686	0.2727439	0.23137903	2.6277662	21	3 31.7	17.5
90584	2030 $P–L$	16.1	X	146.46095	108.83848	223.63648	4.28659	0.2065241	0.31360398	2.1455979	21	—	—
90585	2032 $P–L$	15.4	X	196.33716	42.09181	343.47222	4.19606	0.1563623	0.23653796	2.5894179	21	4 11.7	19.6
90586	2035 $P–L$	16.3	X	138.02410	51.62826	291.14073	1.92482	0.1917291	0.26490366	2.4011027	21	—	—
90587	2182 $P–L$	15.3	X	346.20234	353.22141	359.17015	4.31168	0.1584865	0.17745933	3.1361982	21	9 13.9	18.6
90588	2209 $P–L$	15.8	X	218.87332	5.75045	345.49378	7.60468	0.1352751	0.26884926	2.3775527	21	3 18.5	19.3
90589	2587 $P–L$	15.2	X	129.91175	176.77321	189.47780	3.94220	0.1151265	0.21653668	2.7465135	21	1 11.0	19.0
90590	2624 $P–L$	16.2	X	229.80703	197.64750	123.17329	2.09721	0.1973505	0.26840926	2.3801503	21	2 19.0	20.0
90591	2659 $P–L$	16.3	X	339.81302	178.54089	164.00681	3.50598	0.2282561	0.29035339	2.2586631	21	8 28.8	17.2
90592	2801 $P–L$	15.8	X	1.66469	214.74042	174.65863	6.07011	0.1772601	0.24394595	2.5367265	21	12 20.5	18.6
90593	3003 $P–L$	14.3	X	324.23614	95.03669	323.71784	15.01644	0.2220869	0.17726763	3.1384588	21	10 18.9	17.9
90594	3563 $P–L$	14.3	X	284.56373	88.10348	342.25006	16.17042	0.1925407	0.17525346	3.1624596	21	9 6.8	18.4
90595	4033 $P–L$	15.5	X	130.55881	88.25130	316.62431	1.60155	0.2037649	0.26659583	2.3909316	21	3 5.0	18.9
90596	4229 $P–L$	15.1	X	359.97729	57.20788	294.75776	3.57586	0.1492094	0.17821378	3.1273406	21	10 6.3	18.7
90597	4248 $P–L$	15.7	X	32.29223	90.95764	340.15281	3.76495	0.1491267	0.23079528	2.6321952	21	—	—
90598	4253 $P–L$	15.6	X	21.93297	98.78919	352.14740	7.09342	0.1644878	0.23102200	2.6304729	21	—	—
90599	4542 $P–L$	14.9	X	328.25982	15.99284	310.67385	0.30326	0.2427954	0.17754542	3.1351843	21	6 24.6	18.4
90600	4560 $P–L$	15.7	X	217.69929	1.75187	181.33658	14.83472	0.0933314	0.26128738	2.4232065	21	12 3.9	19.2
90601	4718 $P–L$	16.2	X	116.37576	309.25198	6.66493	3.45900	0.1858450	0.23091452	2.6312890	21	—	—
90602	4757 $P–L$	15.0	X	278.01192	143.10042	177.15105	6.19205	0.0974773	0.17353513	3.1833015	21	4 26.8	19.5
90603	4760 $P–L$	16.0	X	238.65345	88.23788	172.64684	9.46675	0.2050193	0.26644653	2.3918246	21	—	—
90604	4813 $P–L$	16.0	X	261.55244	121.65322	159.77554	6.26444	0.2047276	0.26846025	2.3798490	21	1 27.5	19.8
90605	4814 $P–L$	15.1	X	334.44314	266.02794	131.40842	2.88395	0.0842070	0.19470980	2.9481134	21	10 28.3	18.7
90606	4879 $P–L$	15.7	X	322.57118	269.63771	65.04839	2.71447	0.1458911	0.24053793	2.5606311	21	7 9.2	18.3
90607	4918 $P–L$	15.2	X	128.86341	95.90851	174.41861	13.40309	0.1288384	0.22952637	2.6418876	21	12 12.1	19.6
90608	5020 $P–L$	15.5	X	183.93602	174.58529	228.40060	6.15706	0.1377625	0.26906508	2.3762812	21	4 19.8	19.1
90609	5027 $P–L$	16.0	X	174.45258	151.35462	211.72580	11.74234	0.2049856	0.26718475	2.3874169	21	2 19.9	20.0
90610	6098 $P–L$	16.5	X	340.30514	112.45606	218.66870	1.00320	0.1757352	0.29003308	2.2603257	21	8 10.2	17.9
90611	6100 $P–L$	16.1	X	212.35134	179.32747	191.72814	7.05799	0.1281592	0.28566618	2.2833027	21	4 6.4	19.2
90612	6132 $P–L$	16.7	X	218.40851	77.05174	271.05913	1.18191	0.2367100	0.26901235	2.3765916	21	3 13.2	20.8
90613	6187 $P–L$	15.7	X	241.48393	72.50393	198.42523	7.11030	0.2253179	0.26725090	2.3870230	21	—	—
90614	6646 $P–L$	14.9	X	120.97129	7.16317	32.07956	5.34413	0.1203710	0.21759532	2.7375981	21	2 13.8	18.7
90615	6762 $P–L$	16.2	X	189.49246	254.80455	33.57691	4.15593	0.1788244	0.26544598	2.3978312	21	—	—
90616	6835 $P–L$	15.2	X	88.05801	245.93986	59.10763	2.79811	0.0393715	0.19655899	2.9295940	21	11 28.0	19.4
90617	9589 $P–L$	15.4	X	250.52269	192.03479	170.85602	4.10597	0.2365165	0.22256072	2.6967274	21	5 1.5	19.8
90618	1072 $T–1$	16.7	X	299.91771	205.40661	325.78598	1.40173	0.1474165	0.27084551	2.3658559	21	—	—
90619	1227 $T–1$	16.5	X	299.11001	187.33872	352.84516	2.77492	0.1270023	0.27103407	2.3647585	21	—	—
90620	4342 $T–1$	15.1	X	173.11880	93.82632	50.11931	5.20233	0.0769993	0.24244865	2.5471599	21	8 23.6	18.9
90621	1007 $T–2$	15.4	X	67.05835	136.17132	215.70549	3.21720	0.1023977	0.25102286	2.4888222	21	—	—
90622	1155 $T–2$	14.9	X	227.51179	205.01856	189.91788	3.96926	0.1591848	0.22093955	2.7099030	21	5 25.6	19.3
90623	1202 $T–2$	15.8	X	200.20488	25.03840	3.84382	14.97080	0.1742311	0.23964409	2.5669943	21	4 16.5	20.1
90624	1270 $T–2$	16.7	X	225.51104	285.93342	359.92750	5.15972	0.2169954	0.29852782	2.2172407	21	—	—
90625	1336 $T–2$	15.1	X	84.02843	243.37021	174.75407	5.94500	0.2235922	0.19259132	2.9696932	21	2 5.5	18.7
90626	1483 $T–2$	15.5	X	240.56836	82.55566	183.97578	7.68478	0.2466171	0.21608321	2.7503547	21	—	—
90627	2090 $T–2$	16.7	X	329.02102	357.97414	356.83952	4.35488	0.1645861	0.28656572	2.2785220	21	8 26.6	18.2
90628	2135 $T–2$	15.3	X	15.70823	202.33702	233.76866	2.17573	0.0675769	0.21078258	2.7962730	21	—	—
90629	2149 $T–2$	14.7	X	322.93471	108.21438	190.11722	16.08587	0.2305140	0.18120798	3.0927953	21	5 10.2	18.5
90630	2159 $T–2$	15.4	X	168.48375	61.02740	72.83981	0.86979	0.0155140	0.24368337	2.5385484	21	8 1.8	18.8
90631	2213 $T–2$	15.5	X	237.45467	236.12142	24.80710	4.10064	0.1992002	0.27691973	2.3311315	21	—	—
90632	2259 $T–2$	15.6	X	14.63232	83.00477	244.62200	0.25479	0.1345247	0.24656496	2.5187312	21	10 10.7	18.3
90633	3040 $T–2$	15.4	X	276.79182	152.51070	163.06265	9.32130	0.1994934	0.22045632	2.7138615	21	4 2.6	19.5
90634	3046 $T–2$	15.8	X	355.84453	178.28709	177.56895	2.96170	0.0667220	0.24699151	2.5158304	21	10 13.2	18.5
90635	3068 $T–2$	15.2	X	293.17463	263.55354	156.61866	5.43273	0.0996369	0.20510927	2.8476014	21	9 24.6	18.7
90636	3250 $T–2$	15.6	X	272.23218	291.08335	21.29865	6.79825	0.1387670	0.21969087	2.7201617	21	3 30.9	19.5
90637	3340 $T–2$	16.1	X	5.41106	132.45676	157.06181	6.92222	0.2026149	0.28632299	2.2798095	21	8 1.5	17.5
90638	4048 $T–2$	15.4	X	196.16235	18.14822	34.75642	4.11416	0.1341416	0.17924943	3.1152832	21	5 19.6	20.3
90639	4151 $T–2$	16.0	X	223.03026	252.89948	31.48808	7.28603	0.1198226	0.27706616	2.3303102	21	—	—
90640	4500 $T–2$	15.3	X	347.18931	266.90309	50.13021	2.75549	0.0587874	0.20297427	2.8675350	21	8 2.1	18.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
90641 4570 *T*–2	14.9	X	7.66512	54.89518	26.73681	5.04474	0.1136243	0.17004338	3.2267320	21	—	—
90642 5093 *T*–2	14.9	X	77.26585	217.51807	203.59575	21.89883	0.1118116	0.23397925	2.6082617	21	1 1.1	18.5
90643 5166 *T*–2	14.9	X	105.03514	346.30142	321.96969	9.73498	0.1130031	0.18909951	3.0061394	21	12 26.7	19.6
90644 5483 *T*–2	15.0	X	35.06218	41.92991	335.23053	10.89119	0.1547533	0.18798511	3.0180082	21	—	—
90645 1004 *T*–3	14.7	X	194.10621	43.09230	280.54492	8.37000	0.2279447	0.18981907	2.9985375	21	2 1.2	20.0
90646 1008 *T*–3	14.9	X	350.00056	145.03361	231.37236	12.60286	0.1694738	0.17927385	3.1150002	21	10 22.3	18.5
90647 1016 *T*–3	15.4	X	251.95822	53.15021	266.85414	8.01890	0.1394832	0.21579432	2.7528088	21	3 14.3	19.9
90648 1030 *T*–3	14.4	X	49.75820	97.04773	217.16175	21.11610	0.0929777	0.18032464	3.1028873	21	10 28.6	18.6
90649 1041 *T*–3	15.6	X	38.52406	37.02263	330.28039	7.36043	0.1971725	0.22736117	2.6586338	21	—	—
90650 1112 *T*–3	15.6	X	95.19352	54.82160	235.42893	13.57478	0.0961257	0.22661625	2.6644568	21	11 29.3	19.5
90651 1219 *T*–3	15.3	X	318.22216	284.50614	333.05756	5.68018	0.1727110	0.28374693	2.2935873	21	2 28.3	17.9
90652 1224 *T*–3	14.6	X	347.38376	192.59706	228.21339	11.43574	0.1434211	0.20397136	2.8581823	21	12 21.5	18.0
90653 1904 *T*–3	15.7	X	250.20088	263.61669	328.45712	5.49495	0.1001365	0.27716728	2.3297434	21	—	—
90654 2067 *T*–3	15.8	X	184.51603	215.76215	247.82456	3.36826	0.0756654	0.24162398	2.5529522	21	7 10.7	19.5
90655 2144 *T*–3	14.8	X	209.36323	89.55001	228.84921	6.18443	0.2227304	0.21334367	2.7738494	21	2 3.5	19.8
90656 2399 *T*–3	16.1	X	321.20680	58.72613	233.85435	5.71612	0.1861867	0.28646295	2.2790669	21	4 21.5	18.4
90657 2414 *T*–3	15.1	X	141.24230	80.82612	256.29642	2.45563	0.1846759	0.20963560	2.8064632	21	—	—
90658 2455 *T*–3	14.9	X	323.32950	203.83907	212.43181	16.84654	0.2646382	0.17770875	3.1332629	21	10 17.6	17.8
90659 3175 *T*–3	14.7	X	240.40335	350.98684	24.44736	2.19302	0.0655736	0.19530593	2.9421113	21	5 22.6	19.0
90660 3314 *T*–3	15.6	X	89.36228	231.06875	146.43526	2.39065	0.1052239	0.20827873	2.8186388	21	—	—
90661 3853 *T*–3	14.5	X	234.83409	325.59751	38.80469	5.42162	0.1808906	0.17302580	3.1895455	21	4 25.5	19.8
90662 4087 *T*–3	15.7	X	183.63581	109.04453	180.96126	16.40988	0.3351470	0.18860924	3.0113466	21	—	—
90663 4257 *T*–3	15.7	X	29.46967	282.24196	144.68990	4.86859	0.1087939	0.22963186	2.6410784	21	—	—
90664 4283 *T*–3	14.3	X	303.40588	275.59678	31.80556	23.05486	0.1765049	0.17399096	3.1777393	21	4 27.7	18.5
90665 4299 *T*–3	15.5	X	14.68061	60.60442	54.20761	6.34985	0.1578608	0.27618928	2.3352399	21	—	—
90666 4374 *T*–3	14.9	X	324.50606	107.46838	171.46945	13.09877	0.1478775	0.24040358	2.5615850	21	4 23.5	18.0
90667 5011 *T*–3	15.7	X	135.90353	208.30953	143.18426	7.01797	0.1505476	0.25514649	2.4619335	21	—	—
90668 5075 *T*–3	16.0	X	104.54847	257.45578	162.69138	11.44609	0.0832457	0.27915904	2.3186485	21	1 28.2	18.7
90669 5181 *T*–3	14.7	X	295.52500	242.34214	152.57804	12.14267	0.1053247	0.17612228	3.1520506	21	8 20.8	18.9
90670 5183 *T*–3	15.3	X	208.58698	232.01624	153.34723	9.77030	0.1909786	0.21631276	2.7484085	21	4 27.9	20.0
90671 5728 *T*–3	14.9	X	281.54935	288.85562	120.70502	11.16240	0.0681332	0.17608493	3.1524964	21	8 28.5	19.2
90672 Metrorheinneckar	14.9	X	80.28296	216.58158	85.02934	20.24833	0.3040070	0.18425807	3.0585696	21	12 11.9	20.1
90673 1977 XK_3	15.1	X	154.48241	6.03031	78.87070	10.23189	0.1369705	0.21403369	2.7678845	21	5 19.6	19.4
90674 1978 UD_5	16.0	X	161.24682	203.67497	242.41457	4.53807	0.1958338	0.26738205	2.3862424	21	5 27.3	19.6
90675 1978 UQ_6	16.2	X	190.95664	23.60624	11.11071	7.78394	0.1228009	0.26683041	2.3895301	21	4 15.5	19.9
90676 1978 VA_9	16.3	X	92.05090	232.67875	245.29428	4.45617	0.2469669	0.23893090	2.5721000	21	5 3.6	19.7
90677 1978 VN_{10}	14.9	X	321.91672	265.73455	206.94296	2.93683	0.1543355	0.18489817	3.0515065	21	—	—
90678 1979 MC_6	14.7	X	72.76538	47.04121	281.30245	17.89377	0.2326691	0.24109544	2.5566820	21	—	—
90679 1979 MF_6	16.3	X	107.62472	115.00037	143.25769	5.09717	0.1998870	0.23999521	2.5644900	21	11 13.8	20.5
90680 1981 DE_3	15.0	X	203.89669	217.40270	319.91150	11.39577	0.1245356	0.23379703	2.6096167	21	10 27.1	19.2
90681 1981 EG_4	15.3	X	303.86384	42.97333	278.36211	5.87123	0.1286408	0.27438750	2.3454517	21	5 17.7	17.9
90682 1981 EF_6	14.9	X	19.39571	159.10010	300.59998	9.26022	0.1189702	0.19244339	2.9712148	21	—	—
90683 1981 EQ_6	15.5	X	49.42658	258.37219	330.86950	12.73504	0.1370187	0.22582635	2.6706664	21	7 21.1	18.8
90684 1981 EY_6	14.2	X	69.57981	85.02894	307.27337	10.49975	0.1516288	0.19032645	2.9932061	21	—	—
90685 1981 ET_9	16.1	X	109.57047	182.60987	298.28211	4.18841	0.1237072	0.27353296	2.3503341	21	5 8.0	19.1
90686 1981 EF_{19}	15.4	X	330.33992	124.91898	323.16654	3.05490	0.2306967	0.23873665	2.5734949	21	—	—
90687 1981 EY_{23}	15.6	X	356.77127	93.70423	170.76676	11.45560	0.1754386	0.22454406	2.6808242	21	5 31.7	18.4
90688 1981 ED_{30}	14.0	X	125.46038	197.85500	264.00971	9.59298	0.0452475	0.15042459	3.5015218	21	4 30.8	19.2
90689 1981 EA_{31}	16.7	X	82.73513	241.00634	306.30083	2.08195	0.1207769	0.27497720	2.3420973	21	7 6.6	19.3
90690 1981 EK_{31}	15.3	X	343.32101	20.18651	350.35946	10.21987	0.0889923	0.23192738	2.6236226	21	10 8.1	18.3
90691 1981 EA_{32}	14.6	X	63.44909	164.08191	236.32455	10.26128	0.1052397	0.19064062	2.9899167	21	—	—
90692 1981 EJ_{33}	16.3	X	315.25189	309.89586	315.76658	5.11545	0.0861547	0.27139296	2.3626733	21	3 21.5	19.2
90693 1981 EH_{37}	15.5	X	21.19409	214.33996	207.93230	5.54339	0.2867472	0.24063285	2.5599576	21	—	—
90694 1981 EV_{37}	16.2	X	123.99762	237.44004	209.52569	6.76884	0.0741702	0.27190051	2.3597321	21	4 3.1	19.2
90695 1981 ES_{39}	15.1	X	332.31354	177.48918	278.16644	1.38458	0.1708730	0.18963015	3.0005287	21	—	—
90696 1981 EQ_{44}	16.2	X	186.24325	37.42333	301.64807	5.97430	0.0684165	0.31694861	2.1304768	21	1 17.7	18.6
90697 1983 RH_3	14.1	X	54.66738	25.03150	318.87846	13.14360	0.2180809	0.23912523	2.5707062	21	—	—
90698 Kościuszko	14.4	X	79.21048	142.29977	348.13988	24.02865	0.2534350	0.26877147	2.3780114	21	4 17.2	17.5
90699 1986 *QK*	15.1	X	339.07001	53.89933	301.62039	4.29080	0.2031836	0.28263639	2.2995913	21	9 16.8	16.5
90700 1986 QG_2	16.0	X	295.97576	202.90957	132.71321	4.64229	0.2689684	0.27809656	2.3245504	21	5 6.4	18.9
90701 1986 RC_5	15.1	X	315.04545	181.60649	152.15308	14.86558	0.2939427	0.22293580	2.6937018	21	6 1.9	18.5
90702 1988 CN_5	15.1	X	242.94316	308.82262	172.40330	13.36352	0.2084314	0.22499729	2.6772228	21	9 23.9	18.9
90703 Indulgentia	14.4	X	328.89378	35.75057	357.72374	14.80205	0.1724106	0.23975222	2.5662224	21	10 13.5	16.8
90704 1988 RO_{12}	13.5	X	309.88330	6.56056	104.48278	0.62247	0.0319697	0.12567635	3.9473019	21	12 11.2	19.0
90705 1989 AZ_5	15.7	X	331.93028	348.24212	108.41122	4.11308	0.2169300	0.23945006	2.5683808	21	—	—
90706 1989 GN_2	16.4	X	65.62261	322.49362	231.17033	4.37047	0.1914704	0.28002461	2.3138680	21	7 1.4	18.9
90707 1989 GW_5	16.2	X	348.92963	303.64432	284.51280	1.66091	0.1823768	0.27558344	2.3386611	21	3 6.9	18.6
90708 1990 *EU*	15.0	X	328.15705	210.80620	275.52740	6.53663	0.0495713	0.24557385	2.5255035	21	—	—
90709 Wettin	15.3	X	155.52379	69.04747	21.36351	7.82021	0.2016147	0.21045991	2.7991304	21	5 28.3	20.0
90710 1990 TF_6	14.9	X	275.33206	89.17518	327.49444	8.79362	0.3404629	0.21934773	2.7229978	21	7 21.5	18.9
90711 Stotternheim	16.5	X	209.72199	57.12768	339.12696	3.75404	0.1406490	0.27643830	2.3338373	21	5 5.7	20.2
90712 Wittelsbach	15.2	X	252.90657	291.62989	81.77829	8.78650	0.2406525	0.21514779	2.7583209	21	5 17.0	19.6
90713 Chajnantor	15.8	X	1.23715	336.60214	24.78083	6.49029	0.2034624	0.28684974	2.2770177	21	11 23.3	17.7
90714 1990 VJ_6	14.6	X	355.96714	266.59831	198.91451	9.67979	0.1601147	0.19554188	2.9397441	21	—	—
90715 1991 GE_3	15.3	X	318.48722	43.41418	152.84463	2.81931	0.1412318	0.25670245	2.4519750	21	—	—
90716 1991 GY_8	14.1	X	299.57391	174.65106	19.17786	13.93714	0.1558564	0.25429254	2.4674421	21	—	—
90717 1991 PF_3	14.8	X	87.80729	205.83095	123.58779	9.77237	0.0940846	0.24007462	2.5639244	21	—	—
90718 1991 RW_3	15.3	X	164.07354	88.08496	335.44087	4.97277	0.2317415	0.18466508	3.0540739	21	5 4.9	20.7
90719 1991 RZ_5	14.5	X	353.56727	13.35614	23.69363	12.93140	0.1965185	0.23312159	2.6146549	21	12 13.6	17.3
90720 1991 RS_{19}	15.2	X	14.83618	43.62367	325.69120	5.04298	0.2303312	0.23376543	2.6098519	21	12 20.5	18.2

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
90721 1991 RC_{29}	15.3	X	11.86260	23.15944	330.90413	14.26782	0.3429836	0.23219079	2.6216380	21	12 13.2	18.4
90722 1991 TE_{4}	14.5	X	321.27999	352.55136	23.13387	15.16962	0.2163111	0.22740939	2.6582580	21	9 6.1	17.2
90723 1991 TN_{10}	16.2	X	314.83294	358.76384	10.32916	2.03527	0.1050516	0.22704299	2.6611171	21	8 20.5	19.2
90724 1991 VF_{8}	16.0	X	309.18454	353.31844	54.54775	8.25530	0.2222610	0.22789554	2.6544762	21	9 24.7	18.6
90725 1991 VJ_{8}	15.3	X	2.50241	283.15656	68.57865	4.24121	0.1817064	0.22947341	2.6422940	21	10 27.3	17.8
90726 1992 BE_{4}	16.0	X	13.52822	37.61855	324.11787	5.95135	0.1422127	0.29293089	2.2453942	21	12 7.8	18.4
90727 1992 DP_{5}	14.9	X	246.35008	170.05471	13.36760	2.85311	0.1077466	0.19292439	2.9662742	21	12 22.2	18.9
90728 1992 EW_{8}	14.8	X	208.13340	122.70062	356.43797	9.79636	0.2121739	0.21782123	2.7357049	21	8 20.4	19.4
90729 1992 ED_{21}	15.9	X	274.38512	327.36571	121.90883	6.32241	0.1239225	0.28886242	2.2664285	21	10 16.8	18.3
90730 1992 EO_{23}	16.1	X	207.99861	281.66207	161.69894	5.01821	0.1475728	0.28271088	2.2991874	21	7 6.7	19.5
90731 1992 OC	15.1	X	351.11772	293.17028	2.52522	15.91548	0.2959625	0.23682572	2.5873199	21	6 28.6	17.2
90732 Opdebeeck	14.5	X	13.68416	62.32065	309.64889	11.13008	0.2167953	0.17433739	3.1735282	21	12 3.1	18.3
90733 1993 BO_{8}	15.8	X	305.11761	186.46902	118.94543	4.57138	0.0782597	0.22033122	2.7148887	21	5 12.1	19.3
90734 1993 FW_{6}	15.0	X	180.77105	14.12262	38.10518	5.24445	0.1177397	0.21525426	2.7574113	21	5 2.3	19.3
90735 1993 FC_{10}	14.8	X	43.92149	223.69079	29.56225	10.47961	0.0520583	0.21936628	2.7228443	21	8 4.2	18.5
90736 1993 FB_{15}	15.1	X	45.65380	134.87898	35.36526	9.74721	0.0839243	0.21229924	2.7829394	21	4 14.6	18.5
90737 1993 FQ_{15}	13.7	X	242.82410	22.87025	142.84430	9.51486	0.0838900	0.12614148	3.9375924	21	11 21.5	19.5
90738 1993 FP_{21}	15.2	X	36.70514	161.07321	2.95501	3.42231	0.1344632	0.21079231	2.7961870	21	3 24.6	18.3
90739 1993 FM_{31}	16.3	X	91.77507	261.24614	129.43969	2.16708	0.1620746	0.30772751	2.1728271	21	—	—
90740 1993 FZ_{31}	15.4	X	245.67333	310.76240	148.43911	5.73200	0.3105655	0.22677139	2.6632415	21	8 17.6	19.6
90741 1993 FE_{36}	15.3	X	279.17963	193.01754	58.60507	2.79959	0.0612810	0.20642654	2.8354741	21	2 2.8	19.4
90742 1993 FX_{44}	16.4	X	37.97224	80.72838	176.87035	6.84944	0.0749441	0.28874792	2.2670276	21	8 1.1	18.9
90743 1993 FE_{58}	15.7	X	237.31186	106.91500	223.38189	3.05417	0.1011402	0.21067135	2.7972572	21	3 18.6	19.9
90744 1993 FT_{80}	15.8	X	149.46228	98.72037	25.53831	6.49019	0.0384414	0.21838670	2.7309804	21	6 25.7	19.7
90745 1993 HW_{2}	15.2	X	162.09404	281.95154	168.88032	8.91294	0.1451663	0.21644711	2.7472711	21	6 3.8	19.7
90746 1993 NK_{1}	16.0	X	324.50627	220.74204	123.11040	8.07404	0.1525546	0.28215538	2.3022041	21	7 27.9	17.7
90747 1993 PP_{2}	14.1	X	191.62357	20.02402	146.20545	16.21895	0.1510207	0.18021385	3.1041589	21	10 4.0	19.3
90748 1993 QL_{4}	15.9	X	282.15141	178.32398	140.39490	3.00366	0.2483152	0.27423232	2.3463365	21	3 31.5	19.3
90749 1993 QZ_{7}	14.8	X	286.51820	69.56528	346.94740	15.03154	0.1792619	0.17350566	3.1836620	21	8 27.6	19.0
90750 1993 QJ_{8}	14.6	X	191.64399	247.17038	353.53357	8.17217	0.0539161	0.18618731	3.0374048	21	—	—
90751 1993 QE_{9}	15.6	X	272.83342	241.17039	145.21256	4.17168	0.1480679	0.27774124	2.3265326	21	7 3.9	18.6
90752 1993 RJ_{1}	16.5	X	283.36297	39.05329	196.64504	3.08001	0.2055938	0.26647289	2.3916669	21	—	—
90753 1993 RX_{4}	16.0	X	248.89782	133.20466	189.82751	7.21350	0.1328804	0.26990166	2.3713683	21	3 12.7	19.5
90754 1993 RY_{4}	15.5	X	239.11380	82.62297	340.58420	4.99635	0.1314480	0.27656771	2.3331092	21	7 16.6	18.6
90755 1993 RT_{5}	14.0	X	311.63787	38.24546	2.93393	14.65373	0.1972077	0.17396603	3.1780428	21	9 13.6	17.6
90756 1993 RH_{9}	16.2	X	87.45899	168.15711	274.23013	1.25718	0.1830213	0.26371602	2.4083062	21	2 21.9	18.7
90757 1993 RK_{13}	16.0	X	264.78039	122.86576	181.39538	4.60585	0.1551182	0.27058109	2.3673970	21	3 3.5	19.5
90758 1993 RO_{14}	15.7	X	188.47851	219.47012	183.53457	6.73403	0.1084769	0.27021981	2.3695066	21	4 25.9	19.2
90759 1993 SZ_{6}	16.3	X	253.34719	155.84375	168.93837	2.93320	0.2556570	0.27107092	2.3645442	21	3 11.9	20.2
90760 1993 SN_{10}	16.6	X	254.66917	8.96946	351.68339	2.22234	0.2087552	0.27325793	2.3519109	21	4 29.9	20.1
90761 1993 SW_{13}	16.2	X	237.41200	73.89256	355.06828	9.28624	0.1717051	0.27652597	2.3333440	21	7 19.6	19.7
90762 1993 TV_{3}	14.5	X	354.63294	35.74260	354.45273	4.90911	0.1515963	0.17721559	3.1390731	21	11 16.6	18.2
90763 1993 TB_{6}	14.6	X	287.92783	80.83277	352.15073	4.52487	0.1043298	0.17376813	3.1804553	21	9 27.6	18.8
90764 1993 TO_{6}	16.6	X	260.63805	75.83788	229.65697	4.92427	0.1138019	0.26788506	2.3832543	21	3 3.1	20.1
90765 1993 TX_{14}	14.9	X	346.54823	218.18726	141.94344	1.41837	0.1816071	0.17462553	3.1700362	21	9 24.9	18.1
90766 1993 TN_{16}	16.3	X	166.64348	355.71377	68.36587	2.91395	0.1542051	0.26890069	2.3772495	21	5 2.2	19.9
90767 1993 TJ_{17}	15.9	X	215.66256	277.37372	32.64578	6.49444	0.1389625	0.26473045	2.4021500	21	1 26.8	19.7
90768 1993 TV_{17}	14.4	X	329.12821	21.71320	31.52021	10.70306	0.2038354	0.17598087	3.1537390	21	10 30.6	17.7
90769 1993 TO_{20}	15.0	X	13.30869	190.18753	163.09415	4.29132	0.1366466	0.17674257	3.1446714	21	11 1.6	18.9
90770 1993 TV_{20}	15.4	X	247.47772	311.71635	22.04076	23.61576	0.2552764	0.27054748	2.3675931	21	3 25.3	19.5
90771 1993 TU_{32}	15.8	X	157.90175	328.49041	43.44958	6.93928	0.1955346	0.26359411	2.4090487	21	2 22.7	19.5
90772 1993 UH	14.0	X	22.58509	163.47126	219.96489	26.67575	0.1913011	0.17910293	3.1169817	21	12 25.5	18.4
90773 1993 UT_{1}	16.6	X	169.47218	348.15734	326.77284	1.84643	0.1883402	0.26044144	2.4284509	21	—	—
90774 1993 UA_{5}	14.2	X	141.62042	227.96570	60.92228	12.51983	0.1375921	0.18323765	3.0699142	21	—	—
90775 1993 UE_{5}	16.2	X	175.62058	240.57820	177.06274	7.62387	0.1848567	0.26842706	2.3800451	21	5 5.1	20.1
90776 1993 VW_{2}	15.8	X	218.89607	10.62367	62.70836	6.02901	0.2049121	0.27284720	2.3542706	21	7 1.3	19.6
90777 1993 XJ_{3}	15.0	X	142.16224	124.16929	318.39837	23.03089	0.2745122	0.26502162	2.4003902	21	4 30.9	19.5
90778 1994 CN_{3}	16.1	X	103.14942	253.57475	162.30827	6.46794	0.1281247	0.25527424	2.4611121	21	2 2.3	19.1
90779 1994 CD_{14}	15.1	X	193.12661	88.86309	102.00229	4.72991	0.1764080	0.23757339	2.5818887	21	11 5.6	19.2
90780 1994 CN_{17}	14.9	X	126.66396	67.73513	11.21941	7.64116	0.0425320	0.25732332	2.4480293	21	3 25.4	18.1
90781 1994 EE_{6}	15.0	X	316.55979	322.77215	141.06825	8.27923	0.1952124	0.24416526	2.5352072	21	—	—
90782 1994 GY_{3}	16.4	X	331.29585	122.04613	187.26823	1.97798	0.0715613	0.22436001	2.6822901	21	6 25.5	19.5
90783 1994 GU_{4}	15.9	X	8.73873	84.47357	253.24487	0.45242	0.0862187	0.23119711	2.6291444	21	10 6.8	18.9
90784 1994 HZ	15.7	X	337.65485	255.75271	196.28579	4.50735	0.1412874	0.24164594	2.5527976	21	—	—
90785 1994 JU_{2}	15.2	X	6.42242	165.68596	220.38733	10.25209	0.1479083	0.23450793	2.6043400	21	12 16.6	18.2
90786 1994 PT_{17}	15.5	X	295.20479	316.82911	301.02312	0.80654	0.0987010	0.20644714	2.8352856	21	2 23.2	19.5
90787 1994 PO_{19}	16.7	X	355.87711	181.54391	144.32630	7.22014	0.1613091	0.29226118	2.2488231	21	9 12.2	18.3
90788 1994 PQ_{20}	16.9	X	17.15657	339.72858	337.99821	7.93531	0.1654278	0.29383881	2.2407665	21	10 9.9	19.0
90789 1994 PP_{22}	16.0	X	352.64533	90.17592	3.22475	3.82781	0.0675916	0.30373645	2.1918195	21	—	—
90790 1994 PA_{25}	15.1	X	145.98656	342.62698	16.37258	2.11283	0.0790210	0.20060378	2.8900807	21	1 20.4	19.2
90791 1994 PG_{32}	16.5	X	120.47271	318.08640	308.75378	5.12166	0.3109849	0.30202931	2.2000708	21	12 12.7	20.4
90792 1994 PC_{33}	16.4	X	42.70167	38.24354	306.32484	3.71288	0.1067191	0.29855545	2.2171039	21	12 22.1	18.9
90793 1994 PF_{38}	17.4	X	354.98841	189.45607	170.56729	1.99889	0.1873211	0.29503448	2.2347084	21	11 10.0	19.0
90794 1994 RK_{26}	14.7	X	332.52995	142.55795	324.16356	10.15086	0.1069349	0.19256680	2.9699452	21	—	—
90795 1994 ST_{2}	15.2	X	152.67553	289.61905	350.24662	10.15321	0.0863012	0.19241633	2.9714933	21	—	—
90796 1994 SC_{11}	15.3	X	213.52348	141.82430	153.58445	2.46038	0.0501226	0.19898628	2.9057213	21	1 14.9	19.7
90797 1994 SU_{12}	16.5	X	215.13173	62.11717	36.93379	2.60023	0.1063320	0.28772289	2.2724087	21	8 10.2	19.6
90798 1994 US_{5}	16.8	X	304.39073	356.58086	20.68441	7.25947	0.1324278	0.28843364	2.2686741	21	8 18.1	19.0
90799 1994 UD_{8}	16.5	X	312.17497	11.50518	15.95992	5.42240	0.1536210	0.28997791	2.2606124	21	9 14.9	18.2
90800 1994 UD_{9}	16.6	X	120.26758	244.99210	332.12204	3.33859	0.1035011	0.28984076	2.2613255	21	10 1.3	19.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
90801 1994 VU_5	16.4	X	173.43232	119.57360	15.81739	2.58130	0.0779143	0.28690687	2.2767154	21	8 12.9	19.5
90802 1994 WY	15.2	X	285.65601	184.48196	256.84517	6.91851	0.0815437	0.28995763	2.2607178	21	10 24.5	17.6
90803 1994 WG_5	15.8	X	247.77467	35.06554	53.12614	4.27018	0.1235492	0.28779343	2.2720374	21	9 4.1	18.6
90804 1994 WL_8	15.0	X	116.91350	229.16352	106.06052	10.01987	0.1010491	0.18951029	3.0017937	21	—	—
90805 1994 WP_8	15.0	X	8.21771	174.63161	200.92788	10.63549	0.0541148	0.18178130	3.0862889	21	11 14.9	19.1
90806 Rudaki	15.3	X	176.98657	118.16332	297.82179	20.36775	0.2486235	0.27493637	2.3423291	21	4 26.0	19.8
90807 1995 CF_6	16.4	X	250.18190	32.57948	250.24139	1.55349	0.1651026	0.26351077	2.4095566	21	1 22.5	20.2
90808 1995 CM_6	15.1	X	324.61316	212.51927	184.14862	1.96722	0.0902854	0.17322964	3.1870430	21	10 7.3	19.1
90809 1995 DX_2	16.8	X	287.55240	302.54499	239.78004	19.07402	0.0538016	0.36866099	1.9262734	21	—	—
90810 1995 DY_2	17.3	X	34.49944	245.32614	224.94172	19.16424	0.0976281	0.37339088	1.9099716	21	—	—
90811 1995 DC_5	16.4	X	227.41012	93.31275	276.76966	2.34324	0.1261445	0.27280933	2.3544885	21	4 20.6	19.9
90812 1995 EH_3	16.7	X	138.13082	187.54028	273.65605	1.65755	0.1242656	0.27255832	2.3559338	21	5 17.5	19.8
90813 1995 ES_7	15.9	X	135.34426	249.71862	157.71786	5.75369	0.1074307	0.26457147	2.4031122	21	3 2.2	19.0
90814 1995 FV_4	15.0	X	263.95636	85.45624	18.31413	5.39367	0.1063834	0.17213726	3.2005119	21	10 4.9	19.3
90815 1995 FQ_6	15.6	X	199.33644	312.27975	115.25184	2.71142	0.2177806	0.27496585	2.3421617	21	6 6.0	19.3
90816 1995 OZ_3	15.2	X	162.01577	97.64019	321.87713	6.10961	0.1224948	0.21572689	2.7533824	21	4 20.0	19.5
90817 Doylehall	15.7	X	234.15034	193.66386	219.97681	7.28974	0.1338467	0.22157724	2.7047011	21	6 26.2	19.8
90818 Daverichards	15.5	X	212.87172	317.65831	80.00557	8.68339	0.1061250	0.21892700	2.7264853	21	5 17.9	19.6
90819 1995 SN	15.5	X	266.50283	253.70632	18.54499	7.57031	0.1897111	0.21060530	2.7978420	21	2 2.5	20.1
90820 McCann	15.9	X	312.82232	53.43511	313.24895	9.45598	0.1205466	0.22546327	2.6735328	21	8 10.3	19.0
90821 1995 SA_2	15.1	X	243.89681	254.11289	191.83590	6.06867	0.2317498	0.22250422	2.6971838	21	8 5.7	19.3
90822 1995 SR_{24}	16.0	X	254.02185	155.63636	156.19214	4.60522	0.0917554	0.21321823	2.7749372	21	3 15.9	20.2
90823 1995 SX_{45}	16.4	X	229.39407	59.51132	347.46921	3.18399	0.1823707	0.22026628	2.7154223	21	6 8.9	20.7
90824 1995 SF_{53}	15.7	X	306.42548	111.63264	177.83669	2.57871	0.0726109	0.21757370	2.7377794	21	4 22.6	19.3
90825 Lizhensheng	15.5	X	284.98312	180.53669	190.49575	2.10462	0.1318701	0.22353213	2.6889089	21	7 2.1	19.0
90826 Xuzhihong	15.1	X	217.40874	264.04156	198.14464	14.68768	0.0523892	0.22350706	2.6891099	21	8 14.1	19.1
90827 1995 TU_3	15.9	X	248.59406	121.07913	210.56278	3.44613	0.1027071	0.21375174	2.7703179	21	4 1.3	20.0
90828 1995 UH_2	15.7	X	61.53911	354.93696	230.49794	1.27006	0.0299695	0.22121239	2.7076743	21	7 14.6	19.3
90829 1995 UY_5	14.6	X	275.65780	46.12722	358.38797	11.30578	0.1940116	0.22200139	2.7012550	21	7 29.4	18.4
90830 Beihang	15.7	X	217.23414	83.15130	293.74813	5.57185	0.0728893	0.21481160	2.7611981	21	4 24.2	19.9
90831 1995 UL_{14}	15.1	X	131.89919	212.47874	238.19280	4.97486	0.0732712	0.21120652	2.7925299	21	4 24.2	19.2
90832 1995 UX_{14}	15.6	X	284.55376	317.44488	18.19229	5.39119	0.0723142	0.21650319	2.7467967	21	5 22.8	19.4
90833 1995 UQ_{18}	15.5	X	5.80804	47.59592	199.31793	11.76542	0.1154548	0.21837866	2.7310475	21	5 25.2	18.7
90834 1995 UR_{46}	15.0	X	172.59254	201.74828	203.07615	17.26813	0.1216674	0.21215332	2.7842154	21	4 15.6	19.4
90835 1995 UT_{71}	15.0	X	214.65588	118.87093	21.32573	13.86093	0.0401928	0.22746164	2.6578509	21	10 7.0	18.6
90836 1995 VF_3	15.4	X	307.50641	185.60315	92.62222	4.64678	0.0552711	0.21306435	2.7762732	21	4 13.9	19.1
90837 1995 WT_4	15.0	X	227.74962	120.16973	258.25163	6.54087	0.2360737	0.21548858	2.7554120	21	4 29.1	19.7
90838 1995 WD_7	14.6	X	249.13295	115.62050	257.29994	7.89555	0.1615844	0.21511571	2.7585951	21	5 18.1	18.8
90839 1995 WN_7	14.7	X	250.71829	140.83797	249.37990	12.40793	0.1834193	0.21625495	2.7488983	21	6 9.1	18.9
90840 1995 WY_{12}	15.4	X	183.27753	319.16141	104.48918	5.49985	0.0977852	0.21275210	2.7789889	21	5 20.5	19.6
90841 1995 WT_{13}	15.2	X	169.90361	313.38443	86.17071	8.84094	0.0778606	0.20897687	2.8123578	21	4 8.7	19.5
90842 1995 YZ_4	15.5	X	312.10514	147.98500	86.09092	3.23560	0.0171725	0.20628034	2.8368138	21	2 27.9	19.3
90843 1995 YZ_{22}	16.1	X	20.58518	329.65783	96.10309	6.71397	0.1170051	0.30825020	2.1703701	21	—	—
90844 1996 AF_3	16.7	X	63.90468	297.95489	343.01743	3.06403	0.1785410	0.29380447	2.2409411	21	10 31.5	19.7
90845 1996 BO_6	15.4	X	222.85126	152.18837	38.87935	2.96489	0.0051483	0.18620067	3.0372595	21	12 15.8	19.6
90846 1996 DY	14.0	X	222.38678	202.67367	342.79915	19.56678	0.2108720	0.18233451	3.0800431	21	11 6.7	19.3
90847 1996 EJ_3	14.4	X	148.47429	220.49084	356.57024	16.39677	0.0799157	0.17693293	3.1424155	21	10 14.7	19.3
90848 1996 EP_7	17.4	X	30.85494	266.12847	0.74262	2.78348	0.1603471	0.28413755	2.2914847	21	8 18.7	19.3
90849 1996 EU_9	16.8	X	353.64823	5.14882	14.72197	2.96529	0.1748124	0.29678744	2.2259003	21	12 6.3	18.6
90850 1996 FM_1	16.1	X	286.51410	148.80835	286.21403	4.36347	0.1156966	0.29497072	2.2350304	21	10 12.2	18.5
90851 1996 GX	16.3	X	244.08869	129.01092	45.13099	5.75117	0.0775469	0.30002645	2.2098511	21	—	—
90852 1996 GS_4	16.2	X	287.67097	313.18188	58.84943	6.78076	0.1847672	0.28427175	2.2907635	21	6 28.4	18.8
90853 1996 GF_5	16.5	X	13.32948	265.15892	92.97653	3.34315	0.1752976	0.29166504	2.2518863	21	12 8.4	18.7
90854 1996 GT_8	15.8	X	78.65319	253.79347	143.99185	3.55322	0.1127736	0.30433380	2.1889504	21	—	—
90855 1996 GZ_8	16.1	X	274.04174	340.62182	61.23860	4.65496	0.1440263	0.28719316	2.2752022	21	7 31.2	18.8
90856 1996 GL_{20}	15.9	X	157.36877	151.30365	34.73231	5.10057	0.0893960	0.28815267	2.2701486	21	10 3.2	18.9
90857 1996 HN_8	16.2	X	258.72376	73.89545	199.34393	2.13994	0.1713376	0.26726457	2.3869416	21	1 17.5	19.8
90858 1996 HJ_{19}	14.7	X	281.48264	83.70071	50.44046	5.74522	0.1057058	0.17942921	3.1132019	21	12 4.6	18.7
90859 1996 HH_{20}	16.0	X	245.26725	29.64220	102.99644	2.90469	0.0869475	0.29203079	2.2500057	21	11 8.1	18.6
90860 1996 HP_{20}	16.2	X	214.07825	111.82603	188.60200	0.99829	0.1800686	0.26438695	2.4042301	21	1 12.2	20.1
90861 1996 JD	16.1	X	82.00830	146.91503	73.70642	6.59533	0.0751774	0.28437284	2.2902205	21	8 19.1	18.9
90862 1996 KM_1	15.2	X	90.45347	0.30575	209.13146	24.69411	0.1952012	0.28458751	2.2890687	21	8 21.4	19.0
90863 1996 QR_1	15.5	X	176.83814	73.73566	280.96544	5.33059	0.1527512	0.25906377	2.4370527	21	2 11.6	19.3
90864 1996 RJ_1	16.2	X	64.19848	304.72267	5.73071	7.30975	0.1996284	0.24224585	2.5485813	21	12 3.5	20.0
90865 1996 RC_{11}	16.3	X	262.43511	211.75944	35.06616	1.56721	0.1531603	0.25837156	2.4414036	21	—	—
90866 1996 RA_{28}	15.9	X	28.10222	33.02073	349.26012	18.70883	0.0976791	0.36346753	1.9445792	21	—	—
90867 1996 SX_6	15.6	X	253.15657	143.99176	249.20793	6.22502	0.0844642	0.22587193	2.6703071	21	6 27.2	19.2
90868 1996 SX_7	15.5	X	239.70113	245.05179	197.83830	9.94341	0.1002144	0.23098881	2.6307248	21	8 11.5	19.5
90869 1996 TC_{16}	16.4	X	17.13090	246.45493	261.53294	4.96908	0.0679367	0.29628099	2.2284361	21	1 7.3	18.5
90870 1996 TJ_{18}	16.0	X	182.97406	315.92161	279.09824	0.80932	0.1021709	0.24198613	2.5504045	21	12 24.0	19.6
90871 1996 TG_{19}	16.4	X	42.07273	281.44726	208.18277	22.37609	0.0851937	0.37326733	1.9103930	21	—	—
90872 1996 TZ_{40}	14.3	X	188.82584	119.44366	13.33880	13.18350	0.1179118	0.23269445	2.6178536	21	8 27.4	18.4
90873 1996 TE_{44}	16.6	X	43.96697	328.45037	342.40856	1.93661	0.0935905	0.23749037	2.5824904	21	10 24.8	19.7
90874 1996 TX_{64}	13.9	X	246.72673	172.28852	351.41081	16.13906	0.1566898	0.24385732	2.5373411	21	11 26.4	17.6
90875 1996 VE_1	14.7	X	42.44097	272.20315	126.04402	7.43325	0.0974947	0.24318107	2.5420429	21	—	—
90876 1996 VW_4	15.3	X	226.33466	34.56364	61.61704	3.49421	0.3222676	0.22656867	2.6648298	21	7 29.3	20.0
90877 1996 VQ_5	15.5	X	318.88622	161.74506	251.69040	8.25113	0.2180957	0.23492994	2.6012203	21	10 19.7	17.9
90878 1996 VY_{37}	16.0	X	300.79824	24.30842	40.94542	5.33326	0.2247821	0.23522394	2.5990524	21	10 1.5	18.6
90879 1996 WB_1	15.0	X	157.59185	35.27537	349.96469	2.66774	0.2196824	0.25422783	2.4678608	21	3 10.6	18.8
90880 1996 WZ_2	14.6	X	53.07257	300.61062	70.67674	10.48050	0.1809849	0.24137821	2.5546849	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
90881 1996 XN_{6}	15.3	X	28.59264	178.55080	243.45145	4.43275	0.2094391	0.24292625	2.5438203	21	—	—
90882 1996 XB_{25}	14.8	X	33.22434	314.74784	80.07183	5.30425	0.2077900	0.23886313	2.5725864	21	—	—
90883 1996 XB_{26}	15.6	X	183.64094	209.79645	254.17378	4.95903	0.1327307	0.22401064	2.6850783	21	7 9.4	19.8
90884 1996 XC_{36}	15.4	X	264.00590	244.75307	130.62797	5.98681	0.0894254	0.22037235	2.7145509	21	6 17.1	19.1
90885 1996 YR_{2}	15.0	X	119.57515	147.73543	308.40052	8.30253	0.1281823	0.21372404	2.7705573	21	4 20.1	19.2
90886 1996 YT_{2}	15.2	X	80.88635	203.35312	182.69467	2.48560	0.1984838	0.24578808	2.5240358	21	—	—
90887 1997 AH_{2}	15.8	X	239.36123	129.97692	321.54468	2.64615	0.1765240	0.22508952	2.6764915	21	8 16.0	19.7
90888 1997 AB_{3}	14.6	X	319.20741	115.43945	314.88347	11.75340	0.1758212	0.23320311	2.6140456	21	11 16.4	17.4
90889 1997 AQ_{11}	15.2	X	111.95263	194.79718	278.40523	4.12192	0.0378314	0.21249469	2.7812327	21	4 22.8	19.1
90890 1997 AT_{12}	14.7	X	356.38270	107.43304	328.39275	3.92580	0.2205810	0.23810129	2.5780710	21	—	—
90891 1997 AE_{15}	14.9	X	13.86082	17.03770	86.71222	13.99657	0.1286766	0.24181191	2.5516294	21	—	—
90892 Betlémská kaple	15.8	X	107.25264	103.79024	345.41135	3.82066	0.0355601	0.20947783	2.8078723	21	3 17.9	19.5
90893 1997 BE	15.3	X	246.03827	201.60885	322.71280	9.83774	0.0340508	0.19251781	2.9704491	21	12 8.1	19.6
90894 1997 BF_{2}	15.1	X	339.91516	110.79302	298.48860	14.12271	0.1580677	0.23375290	2.6099451	21	12 1.3	18.0
90895 1997 CC_{2}	15.5	X	249.30073	71.94028	311.56609	5.17259	0.0339229	0.21869095	2.7284469	21	6 16.5	19.2
90896 1997 CJ_{3}	14.9	X	261.16554	308.32793	128.98165	8.61733	0.1321840	0.22503372	2.6769339	21	8 30.9	18.5
90897 1997 CF_{6}	14.3	X	314.66128	80.74577	337.83870	12.94774	0.2096265	0.23017210	2.6369441	21	10 13.3	16.9
90898 1997 CQ_{19}	15.1	X	342.17827	333.78256	91.69210	6.20282	0.2267188	0.23376018	2.6098909	21	—	—
90899 1997 EL_{1}	15.6	X	185.44321	143.31603	299.14779	2.80006	0.1820064	0.21738033	2.7394028	21	6 14.2	20.2
90900 1997 EA_{2}	15.3	X	206.04725	225.74672	202.10457	2.05659	0.0578825	0.21657778	2.7461660	21	6 19.5	19.2
90901 1997 EJ_{5}	15.1	X	65.52027	288.89595	10.19690	0.91908	0.1388504	0.18182060	3.0858441	21	11 5.1	19.4
90902 1997 EO_{5}	15.6	X	148.57478	168.25408	168.76726	2.18166	0.1242811	0.19548213	2.9403431	21	1 2.3	20.0
90903 1997 EH_{9}	15.4	X	211.38182	167.61825	111.19244	0.64623	0.0499002	0.19635742	2.9315986	21	—	—
90904 1997 EQ_{11}	14.1	X	138.99727	35.87990	179.92626	25.23781	0.1738124	0.17898351	3.1183680	21	10 14.4	19.3
90905 1997 EJ_{21}	15.4	X	206.47607	216.33432	174.62645	3.23967	0.1639861	0.21350927	2.7724149	21	5 1.4	19.9
90906 1997 EV_{36}	15.1	X	238.90829	317.39131	131.76629	18.06383	0.0932043	0.22355162	2.6887526	21	8 24.1	18.9
90907 1997 GX	15.2	X	265.56038	354.05309	172.64391	1.61163	0.0678134	0.18989947	2.9976912	21	12 30.9	19.3
90908 1997 GJ_{1}	15.1	X	81.90601	172.24140	183.82256	10.19836	0.1818787	0.19028574	2.9936330	21	—	—
90909 1997 GD_{3}	15.6	X	78.28611	19.33331	355.80330	1.63250	0.1281716	0.19301607	2.9653349	21	—	—
90910 1997 GF_{6}	14.7	X	90.82007	79.47241	207.01651	25.51459	0.2229567	0.17867222	3.1219889	21	11 25.4	19.9
90911 1997 GF_{13}	15.5	X	256.66398	120.53261	51.69371	0.32979	0.1068309	0.18998598	2.9967810	21	12 20.9	19.6
90912 1997 GQ_{33}	15.2	X	137.94952	226.07874	48.75359	1.34067	0.1640688	0.18525767	3.0475576	21	12 18.7	20.2
90913 1997 HK_{7}	14.2	X	38.44380	127.09880	221.79091	15.03186	0.2346185	0.17901351	3.1180197	21	12 15.1	18.5
90914 1997 HQ_{11}	14.4	X	351.11819	76.43400	236.37637	5.97770	0.1397564	0.17082927	3.2168282	21	7 27.8	18.2
90915 1997 HP_{13}	17.2	X	141.01650	68.40369	188.55532	3.61252	0.1690108	0.30432853	2.1889757	21	12 17.3	20.6
90916 1997 LR	16.4	X	85.37115	204.71555	123.33862	7.36979	0.2848408	0.30202903	2.2000722	21	—	—
90917 1997 NU_{2}	15.8	X	234.53919	167.07413	274.29716	5.00101	0.1244196	0.28730277	2.2746234	21	8 4.2	18.7
90918 Jasinski	15.6	X	265.83437	60.06809	304.23949	4.20990	0.1627988	0.28131350	2.3067950	21	5 21.3	18.8
90919 1997 PA_{5}	15.6	X	294.05305	101.48013	309.44160	3.93576	0.1919810	0.28745072	2.2738429	21	9 5.5	17.6
90920 1997 QM_{3}	15.2	X	50.78333	347.24518	12.00284	4.59631	0.2206963	0.29447761	2.2375248	21	—	—
90921 1997 QP_{4}	15.5	X	353.52952	87.91200	311.08954	6.43869	0.0345160	0.29579912	2.2308556	21	12 15.7	18.0
90922 1997 RN_{2}	16.3	X	313.65927	4.06618	49.81516	2.73613	0.1648237	0.28706704	2.2758685	21	10 29.5	17.9
90923 1997 RV_{3}	16.3	X	167.70560	236.70318	190.56405	2.04488	0.1855838	0.27180738	2.3602711	21	5 8.6	19.9
90924 1997 RX_{3}	16.7	X	213.78904	269.46107	186.93621	2.38202	0.1815825	0.27912943	2.3188125	21	7 27.8	20.2
90925 1997 RK_{5}	16.1	X	145.40956	22.92931	166.72741	5.73223	0.0232131	0.28891679	2.2661441	21	9 21.9	18.9
90926 Stáhalík	15.8	X	181.02403	309.36741	118.59892	5.02095	0.1263556	0.27749817	2.3278909	21	5 21.2	19.2
90927 1997 SU_{4}	16.1	X	352.57314	341.46732	345.53739	5.52198	0.1391300	0.28629198	2.2799742	21	9 2.7	18.0
90928 1997 SS_{8}	16.6	X	199.35087	27.95936	155.00715	1.56232	0.1390455	0.29396477	2.2401264	21	11 10.9	19.8
90929 1997 SQ_{18}	15.2	X	235.45956	112.96198	357.65796	6.19111	0.1028807	0.28779443	2.2720321	21	9 20.2	18.1
90930 1997 SL_{24}	15.9	X	65.19562	233.53036	284.57047	1.39864	0.1394720	0.27046650	2.3680656	21	4 27.9	18.1
90931 1997 SR_{32}	15.8	X	24.41779	40.02036	356.90921	3.38979	0.1722870	0.29577953	2.2309541	21	—	—
90932 1997 TC_{1}	16.2	X	31.94306	39.74460	329.82029	3.81684	0.1162138	0.29686798	2.2254977	21	—	—
90933 1997 TX_{7}	16.3	X	146.28940	251.06156	167.59857	2.73370	0.1640878	0.26948479	2.3738132	21	4 5.1	19.8
90934 1997 TD_{10}	15.7	X	113.12887	280.26846	208.70423	3.41176	0.1325336	0.27115241	2.3640704	21	5 27.5	18.7
90935 1997 TW_{17}	16.1	X	313.87980	191.96711	182.19800	3.26037	0.1821627	0.28462840	2.2888495	21	8 19.5	17.9
90936 Neronet	16.2	X	310.49211	123.45107	198.73731	24.45410	0.2345516	0.28051458	2.3111729	21	5 13.0	19.0
90937 Josefdufek	16.3	X	105.68363	331.59039	110.32846	0.15809	0.1817973	0.26605049	2.3941977	21	3 21.1	19.1
90938 1997 TE_{22}	16.5	X	225.55610	136.66605	271.47130	1.03684	0.2238247	0.27837625	2.3229932	21	6 2.9	20.3
90939 1997 TV_{22}	15.8	X	135.18587	77.07741	12.94179	6.57527	0.1346067	0.27080166	2.3661113	21	4 28.9	19.0
90940 1997 TR_{23}	16.6	X	346.58960	65.82853	217.02485	5.80514	0.1077530	0.27840591	2.3228281	21	6 7.9	18.7
90941 1997 TW_{23}	16.1	X	323.48798	280.41958	27.20019	8.33772	0.1378905	0.27897986	2.3196412	21	5 27.5	18.4
90942 1997 TS_{24}	16.0	X	219.54441	3.47742	8.32726	7.26852	0.1407960	0.27489699	2.3425528	21	4 13.8	19.6
90943 1997 UX_{2}	15.7	X	21.60839	90.94230	214.81120	10.21327	0.2688683	0.28708054	2.2757971	21	10 20.7	17.7
90944 Pujol	16.2	X	323.65442	18.19925	325.38424	3.15967	0.2572707	0.28400323	2.2922072	21	7 8.2	17.6
90945 1997 UE_{5}	16.2	X	264.54694	3.69941	49.98044	3.17585	0.2568964	0.28100701	2.3084720	21	7 16.7	19.2
90946 1997 UX_{16}	17.1	X	218.54157	3.54984	19.46277	2.94010	0.1958673	0.27422182	2.3463964	21	4 26.4	20.7
90947 1997 UD_{24}	15.9	X	215.63534	16.22321	320.81233	4.04188	0.1112560	0.26871588	2.3783394	21	2 25.9	19.3
90948 1997 VF_{4}	15.8	X	50.76875	37.62537	80.30788	3.14822	0.1433181	0.26114674	2.4240764	21	2 2.2	18.0
90949 1997 VB_{5}	15.7	X	198.49708	218.15194	216.93646	4.11724	0.1104715	0.27582244	2.3373100	21	6 17.4	19.0
90950 1997 VH_{5}	15.3	X	248.30938	334.59489	65.16899	7.20171	0.1582124	0.27702638	2.3305332	21	6 20.4	18.6
90951 1997 VX_{6}	16.6	X	150.87486	58.77054	41.84568	2.65184	0.2086048	0.27158916	2.3615353	21	6 6.0	20.2
90952 1997 VD_{7}	16.1	X	134.10779	39.12537	2.10825	2.57019	0.1287514	0.26412329	2.4058299	21	2 23.9	19.3
90953 Hideosaitou	15.6	X	149.11171	263.80215	203.20618	4.09234	0.1869480	0.27219269	2.3580431	21	6 11.9	19.3
90954 1997 WW_{1}	16.0	X	88.21756	121.83197	334.41963	2.16040	0.1587212	0.26319501	2.4114834	21	3 11.4	18.5
90955 1997 WB_{2}	15.9	X	99.91680	278.57590	158.45806	2.28940	0.1858199	0.26479083	2.4017848	21	3 7.1	18.4
90956 1997 WB_{3}	16.2	X	225.01297	325.54840	81.30445	9.24850	0.2377869	0.27528373	2.3403583	21	5 31.7	20.0
90957 1997 WS_{4}	15.8	X	205.08987	234.21561	49.40927	6.94080	0.1296508	0.26147050	2.4220750	21	—	—
90958 1997 WQ_{12}	16.1	X	224.42646	107.31384	234.46268	5.68801	0.1257211	0.27042984	2.3682796	21	3 10.5	19.7
90959 1997 WW_{14}	16.0	X	241.43218	321.32632	44.37455	6.75606	0.1753320	0.27504712	2.3417003	21	4 27.3	19.4
90960 1997 WH_{16}	15.5	X	136.04605	2.31284	70.41628	25.45098	0.2680169	0.26769213	2.3843993	21	5 2.3	19.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
90961 1997 WY_{17}	16.1	X	249.27715	359.80439	19.58302	6.76010	0.1173253	0.27676174	2.3320186	21	5 27.8	19.3
90962 1997 WE_{19}	15.9	X	246.10524	282.68269	5.08131	6.40356	0.0924426	0.26625509	2.3929710	21	1 29.9	19.4
90963 1997 WW_{20}	16.3	X	174.97772	31.39574	77.09446	5.05948	0.1960616	0.27474429	2.3434207	21	7 8.0	20.0
90964 1997 WF_{22}	15.5	X	86.28267	38.79453	45.88524	2.88481	0.1856401	0.26310989	2.4120035	21	2 26.1	17.9
90965 1997 WC_{23}	15.6	X	225.87069	7.83664	33.66824	7.51749	0.1144448	0.27546802	2.3393144	21	5 31.6	19.0
90966 1997 WN_{24}	16.0	X	208.80939	24.24745	31.73060	5.18886	0.2060160	0.27571963	2.3378910	21	5 29.5	19.8
90967 1997 WV_{27}	17.0	X	170.67188	48.52491	334.11246	0.74357	0.1904075	0.26822951	2.3812135	21	3 15.5	20.8
90968 1997 WG_{28}	16.5	X	296.14960	191.74358	152.72280	1.72283	0.2097956	0.27903315	2.3193458	21	5 27.3	19.0
90969 1997 WR_{33}	15.8	X	184.27931	24.82399	48.98261	4.53039	0.0647650	0.27305234	2.3530913	21	5 30.1	18.9
90970 1997 WY_{34}	16.1	X	159.91874	266.59247	169.77312	2.66025	0.2015194	0.27040085	2.3684488	21	5 14.4	19.9
90971 1997 WR_{35}	15.7	X	198.31546	141.87729	250.38045	6.03996	0.1266963	0.27087437	2.3656878	21	4 19.1	19.3
90972 1997 WX_{35}	16.1	X	147.20962	121.18493	355.45960	2.39039	0.1688923	0.27195065	2.3594421	21	6 21.4	19.7
90973 1997 WA_{36}	15.8	X	197.99214	20.96568	52.54856	8.51048	0.0900593	0.27428139	2.3460566	21	6 14.5	19.2
90974 1997 WH_{36}	15.6	X	79.71060	184.95833	261.80970	2.45226	0.2094496	0.26162800	2.4211028	21	2 18.8	17.8
90975 1997 WF_{37}	16.3	X	238.68878	251.26644	112.73022	3.55136	0.1792477	0.27336821	2.3512783	21	4 23.5	20.0
90976 1997 WH_{38}	16.0	X	312.10465	150.42928	246.84676	4.89546	0.1634420	0.28432940	2.2904538	21	9 24.2	17.8
90977 1997 WS_{41}	15.8	X	121.91698	339.90937	96.27224	3.59012	0.1487095	0.26562468	2.3967557	21	3 31.4	18.9
90978 1997 WY_{45}	16.0	X	149.21808	326.01334	78.85481	13.09015	0.1175948	0.26610082	2.3938958	21	3 23.9	19.6
90979 1997 WS_{49}	15.8	X	104.36560	202.48116	226.75315	5.35708	0.0879934	0.26308432	2.4121598	21	2 12.8	18.8
90980 1997 WM_{53}	15.9	X	266.69062	294.46485	92.07414	7.24077	0.1308152	0.27757554	2.3274584	21	6 28.7	18.7
90981 1997 WY_{54}	16.9	X	182.65774	285.03659	118.94151	2.08264	0.1779423	0.27092780	2.3653768	21	4 22.7	20.6
90982 1997 XE_{2}	15.1	X	331.61016	71.37485	73.73428	14.22194	0.1597191	0.25341928	2.4731072	21	—	—
90983 1997 XU_{5}	16.3	X	283.84301	214.82884	183.00754	2.92739	0.2478348	0.28131506	2.3067865	21	7 19.4	18.9
90984 1997 XF_{6}	16.5	X	156.06944	357.22163	60.23080	7.49047	0.1305514	0.26916449	2.3756960	21	4 12.9	20.0
90985 1997 XQ_{6}	15.9	X	78.06023	226.38422	230.74980	6.06064	0.0752185	0.26402768	2.4064107	21	2 9.5	18.7
90986 1997 XS_{10}	16.3	X	183.28977	356.33500	20.76379	4.56548	0.2259991	0.26840620	2.3801684	21	3 22.3	20.2
90987 1997 XM_{11}	15.9	X	265.00403	15.94309	50.96507	7.72433	0.1566478	0.28129009	2.3069230	21	8 24.3	18.8
90988 1997 XS_{13}	16.2	X	146.73691	258.26858	126.11706	3.01842	0.2221470	0.26537994	2.3982290	21	2 27.2	19.7
90989 1997 YP	16.0	X	51.34751	325.88310	110.87076	2.23283	0.1768821	0.25549667	2.4596835	21	—	—
90990 1997 YT_{3}	15.9	X	235.51139	113.30175	283.45757	6.29553	0.1668394	0.27580743	2.3373948	21	6 1.2	19.4
90991 1997 YU_{10}	15.8	X	179.02440	297.91385	101.20679	10.35364	0.2183356	0.26832692	2.3806372	21	4 19.0	19.9
90992 1997 YW_{10}	16.1	X	125.97359	56.05268	31.76869	2.86585	0.1824366	0.26392666	2.4070247	21	4 23.3	19.5
90993 1997 YA_{15}	16.5	X	209.68094	52.05877	310.24893	1.61763	0.1944119	0.26609935	2.3939046	21	3 24.0	20.5
90994 1997 YH_{18}	15.5	X	114.12506	13.60399	37.82856	1.90844	0.1805548	0.26025706	2.4295977	21	2 20.8	18.5
90995 1998 AK	15.1	X	115.67284	210.00256	274.72991	1.27063	0.1459469	0.26641443	2.3920168	21	5 26.3	18.1
90996 1998 AQ_{7}	16.2	X	121.05101	14.74829	24.95910	2.79759	0.2260060	0.25981653	2.4323433	21	2 21.0	19.4
90997 1998 BC	14.9	X	240.16856	262.78994	329.01051	8.04891	0.0360996	0.25102390	2.4888153	21	—	—
90998 1998 BU	15.2	X	181.15308	187.03481	357.48050	4.45053	0.1802684	0.23692020	2.5866320	21	10 15.2	19.3
90999 1998 BE_{6}	16.3	X	56.56324	331.11903	98.24288	3.88671	0.1432167	0.25425793	2.4676660	21	—	—
91000 1998 BO_{7}	15.4	X	70.73535	325.68930	162.34740	3.03310	0.1445792	0.26050448	2.4280591	21	3 27.3	17.7
91001 1998 BY_{8}	14.9	X	311.64732	136.72167	331.36868	12.24259	0.1026755	0.24427964	2.5344158	21	—	—
91002 1998 BZ_{11}	15.8	X	188.06384	156.90156	297.01624	2.03049	0.1865790	0.27262883	2.3555276	21	6 30.7	19.6
91003 1998 BZ_{15}	15.1	X	172.07849	119.27881	292.96342	5.90121	0.1087202	0.26409334	2.4060118	21	4 16.5	18.7
91004 1998 BH_{16}	14.4	X	301.77547	83.11463	322.68521	24.33909	0.2503156	0.27994095	2.3143290	21	8 27.6	16.4
91005 1998 BZ_{18}	14.9	X	204.75854	226.18416	294.96460	2.62004	0.1759990	0.23753296	2.5821817	21	10 7.9	19.0
91006 Fleming	15.6	X	356.16509	26.51805	18.59593	15.46915	0.1171594	0.24322345	2.5417476	21	12 23.9	18.8
91007 Ianfleming	15.1	X	262.58505	73.85768	316.89270	7.25834	0.1927387	0.27432465	2.3458100	21	6 20.8	18.4
91008 1998 BX_{36}	16.3	X	144.05391	96.14017	302.00461	8.54094	0.2370912	0.26265805	2.4147689	21	3 10.9	20.1
91009 1998 BQ_{47}	15.4	X	262.41809	321.55481	162.18844	5.73654	0.1898284	0.24160831	2.5530627	21	10 26.9	18.6
91010 1998 CD_{1}	15.2	X	35.49936	43.74620	54.38176	5.11719	0.1898522	0.25429568	2.4674218	21	—	—
91011 1998 CH_{2}	15.2	X	274.89079	142.28617	348.05361	7.53649	0.1799942	0.24224238	2.5486056	21	11 21.2	18.3
91012 1998 DY	15.8	X	79.02804	283.54058	319.09371	3.89008	0.0488073	0.23206021	2.6226214	21	9 3.1	19.1
91013 1998 DG_{2}	14.4	X	258.03145	103.30167	39.72461	11.22511	0.1036088	0.23936432	2.5689941	21	11 24.8	17.6
91014 1998 DN_{12}	15.7	X	300.84678	316.05862	97.66792	3.66992	0.1121530	0.23328128	2.6134616	21	9 30.9	18.7
91015 1998 DJ_{13}	15.0	X	330.55286	159.19433	298.19376	10.29452	0.0949696	0.24456128	2.5324696	21	—	—
91016 1998 DS_{15}	14.6	X	192.13084	75.87301	73.59246	10.70104	0.1285423	0.23174705	2.6249834	21	9 21.0	18.8
91017 1998 DA_{16}	15.3	X	271.86711	294.95140	185.14304	10.90264	0.1856560	0.24065358	2.5598106	21	11 5.6	18.3
91018 1998 DA_{20}	16.0	X	36.12959	321.58114	142.17419	2.84678	0.1696768	0.25431916	2.4672699	21	—	—
91019 1998 DK_{20}	15.9	X	121.35339	74.02847	27.23804	2.34782	0.1760160	0.26278470	2.4139930	21	5 5.0	19.3
91020 1998 DQ_{22}	15.8	X	124.55426	256.98349	309.85051	2.74136	0.0652795	0.23228725	2.6209122	21	9 14.5	19.4
91021 1998 DQ_{28}	14.3	X	27.04629	301.07994	9.32989	10.60847	0.1731159	0.22859785	2.6490366	21	10 9.4	17.3
91022 1998 DV_{31}	13.9	X	199.55517	157.62018	336.47213	11.61720	0.2382415	0.23260829	2.6185001	21	8 28.3	18.3
91023 Lutan	14.9	X	62.31334	347.47196	348.74796	9.73477	0.2124263	0.23707266	2.5855230	21	—	—
91024 Széchenyi	15.2	X	118.00818	205.14498	5.45334	4.64102	0.0649363	0.22672997	2.6635658	21	9 13.0	18.8
91025 1998 DJ_{34}	14.6	X	279.55396	168.39556	352.21482	13.13275	0.1047835	0.24333758	2.5409527	21	—	—
91026 1998 DS_{34}	14.8	X	141.19065	236.61817	358.65631	11.33489	0.1162440	0.23428359	2.6060023	21	11 6.9	19.0
91027 1998 DM_{35}	15.3	X	106.14398	137.10275	332.01965	5.13172	0.1761706	0.26046339	2.4283145	21	4 25.3	18.6
91028 1998 DU_{37}	15.5	X	48.74992	324.03903	328.93373	2.81989	0.2632846	0.23217707	2.6217413	21	11 1.3	19.1
91029 1998 EY	16.2	X	313.67294	279.21339	187.02564	4.71753	0.1987536	0.24343379	2.5402832	21	—	—
91030 1998 EV_{2}	15.0	X	295.81062	68.51649	196.08301	24.74089	0.1119792	0.21019517	2.8014803	21	2 26.1	19.2
91031 1998 EX_{2}	15.2	X	336.89126	76.44961	194.00005	11.33417	0.1429857	0.21529439	2.7570686	21	5 4.7	18.4
91032 1998 EA_{11}	15.9	X	66.80273	345.88704	110.01291	5.50734	0.2179683	0.25569471	2.4584133	21	2 12.0	17.9
91033 1998 ES_{19}	15.4	X	192.75111	192.32728	337.87008	7.43193	0.1007158	0.23515075	2.5995916	21	10 10.9	19.4
91034 1998 EH_{21}	16.5	X	120.83883	201.12265	162.33435	21.93012	0.0662369	0.37627966	1.9001835	21	—	—
91035 1998 EM_{21}	15.1	X	128.54840	148.28653	3.11235	12.70735	0.0926595	0.22585788	2.6704178	21	7 14.5	19.2
91036 1998 FC_{5}	16.5	X	220.83529	98.98605	185.66745	22.94465	0.0428028	0.37625639	1.9002619	21	—	—
91037 1998 FF_{5}	16.6	X	177.25675	280.86740	10.84256	20.09859	0.0570340	0.37251745	1.9129559	21	—	—
91038 1998 FW_{8}	15.2	X	281.18269	292.43842	41.22603	6.94305	0.1262292	0.21706195	2.7420808	21	5 8.5	18.9
91039 1998 FA_{10}	14.5	X	184.63241	120.66944	354.87342	15.80603	0.0459111	0.22573611	2.6713781	21	8 2.5	18.5
91040 1998 FD_{14}	14.8	X	209.45776	33.33428	41.10357	2.86849	0.0497050	0.22471709	2.6794479	21	7 2.9	18.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
91041 1998 FG_{14}	16.1	X	155.13597	136.10811	180.83931	22.41408	0.0408186	0.37203247	1.9146181	21	—	—
91042 1998 FF_{15}	14.5	X	103.34918	232.45421	15.87174	9.51525	0.1131512	0.23205226	2.6226813	21	10 18.2	18.3
91043 1998 FG_{15}	16.2	X	190.13577	247.85920	14.56783	20.28233	0.0526031	0.36914036	1.9246054	21	—	—
91044 1998 FX_{15}	17.2	X	152.70297	75.58033	6.35460	23.83324	0.1280555	0.38900093	1.8585274	21	4 19.8	19.6
91045 1998 FA_{27}	14.4	X	214.91379	116.90903	341.25184	7.02260	0.0746962	0.22887964	2.6468618	21	8 9.5	18.2
91046 1998 FT_{29}	15.4	X	211.60389	313.03225	190.91498	8.10679	0.1323663	0.23376868	2.6098277	21	9 27.5	19.3
91047 1998 FT_{30}	15.4	X	277.86435	344.43684	176.86181	5.81034	0.1724219	0.24319862	2.5419206	21	—	—
91048 1998 FO_{31}	15.4	X	3.59379	309.95013	150.08333	3.17227	0.1026109	0.24682747	2.5169450	21	—	—
91049 1998 FN_{32}	14.1	X	115.83859	219.84011	350.31781	14.28452	0.1193510	0.22809091	2.6529602	21	9 14.2	17.9
91050 1998 FU_{32}	15.0	X	336.05480	229.07888	176.61709	4.39772	0.0668325	0.23655547	2.5892901	21	11 18.5	18.0
91051 1998 FA_{34}	15.3	X	288.88779	123.52285	351.62807	6.47484	0.0321467	0.23869997	2.5737586	21	12 11.7	18.7
91052 1998 FW_{38}	15.5	X	280.86000	140.43164	346.67388	4.21260	0.1118440	0.24040926	2.5615446	21	12 7.7	18.5
91053 1998 FE_{42}	15.5	X	26.16587	328.73337	232.49055	4.10498	0.0965590	0.21689185	2.7435143	21	4 23.8	18.7
91054 1998 FB_{48}	14.3	X	185.51403	125.61231	336.77219	4.89159	0.1124839	0.22551001	2.6731634	21	7 10.8	18.4
91055 1998 FD_{49}	14.1	X	321.05425	89.15168	357.16334	13.36741	0.1282395	0.23999018	2.5645258	21	12 19.9	17.1
91056 1998 FG_{49}	15.0	X	239.06535	296.66763	358.00825	13.12025	0.1361865	0.20863116	2.8154637	21	2 9.3	19.6
91057 1998 FR_{50}	15.7	X	275.80258	291.14954	174.29458	11.95798	0.1918510	0.23758439	2.5818090	21	10 21.4	18.8
91058 1998 FU_{50}	14.7	X	59.84652	310.65587	8.38097	13.67148	0.1123947	0.23377523	2.6097789	21	11 23.9	18.5
91059 1998 FE_{51}	14.8	X	352.92284	216.18257	11.90291	12.54123	0.0972408	0.21539044	2.7562489	21	4 5.3	18.2
91060 1998 FS_{51}	15.4	X	317.61490	154.02778	152.46421	6.55837	0.0378223	0.22078649	2.7111552	21	6 5.9	19.0
91061 1998 FN_{61}	14.9	X	262.62772	329.60678	190.81924	23.42426	0.1355772	0.24013413	2.5635008	21	12 20.6	18.6
91062 1998 FH_{62}	15.6	X	282.04938	167.02549	288.91220	2.12386	0.1264097	0.23556606	2.5965353	21	10 24.5	18.5
91063 1998 FX_{62}	14.5	X	219.89024	108.24912	7.06662	13.32033	0.1145127	0.22991349	2.6389211	21	9 5.6	18.4
91064 1998 FL_{63}	15.2	X	8.56988	299.50143	139.10462	3.39471	0.0754015	0.24311832	2.5424802	21	—	—
91065 1998 FM_{66}	14.4	X	238.39822	114.48935	11.21637	13.71410	0.1024492	0.23324591	2.6137258	21	10 7.8	18.0
91066 1998 FP_{66}	14.0	X	22.33059	322.78954	15.71046	12.73937	0.1975994	0.23010956	2.6374219	21	11 10.7	17.2
91067 1998 FC_{67}	15.1	X	188.80189	13.19555	177.13673	14.14385	0.1088560	0.23402102	2.6079513	21	11 6.0	19.2
91068 1998 FP_{68}	14.5	X	214.53212	115.75835	2.88826	13.99902	0.0572289	0.22862264	2.6488451	21	9 8.7	18.2
91069 1998 FK_{70}	15.1	X	304.40046	331.12084	176.10971	9.37137	0.2184573	0.24413329	2.5354286	21	—	—
91070 1998 FO_{71}	14.2	X	194.67528	273.45951	191.36497	12.40169	0.1265948	0.22528346	2.6749552	21	7 19.7	18.6
91071 1998 FY_{76}	15.3	X	257.85265	118.35076	48.41079	6.19562	0.1904254	0.24025137	2.5626667	21	12 13.9	18.3
91072 1998 FC_{77}	15.6	X	145.53033	10.21956	136.55079	4.80437	0.1732007	0.22475495	2.6791470	21	7 28.7	19.9
91073 1998 FN_{78}	14.1	X	214.94891	79.54106	33.28103	13.55058	0.1287540	0.22857291	2.6492293	21	8 29.6	18.3
91074 1998 FT_{90}	15.2	X	208.86685	177.18509	13.05600	13.59546	0.0877563	0.23793751	2.5792540	21	11 23.7	19.0
91075 1998 FT_{96}	15.1	X	226.24610	207.33984	327.65101	10.76822	0.1207575	0.23830436	2.5766062	21	11 21.4	19.0
91076 1998 FU_{105}	15.6	X	167.00827	331.31019	202.71332	11.51829	0.1295202	0.23017566	2.6369169	21	9 18.8	19.8
91077 1998 FN_{106}	15.4	X	124.18959	199.28630	353.25019	13.37596	0.0896282	0.22629565	2.6669728	21	8 31.7	19.3
91078 1998 FX_{106}	15.2	X	22.64746	277.19816	319.21103	11.20558	0.1507933	0.21870056	2.7283670	21	6 10.7	18.3
91079 1998 FB_{107}	15.1	X	228.23965	230.49505	214.18190	15.06286	0.1381836	0.22810718	2.6528340	21	7 25.8	19.4
91080 1998 FX_{107}	14.8	X	116.12136	330.39102	238.27450	10.92913	0.1352336	0.22693076	2.6619944	21	9 9.0	19.1
91081 1998 FR_{109}	15.6	X	314.41582	155.09440	322.80078	6.65686	0.1379721	0.24203561	2.5500569	21	—	—
91082 1998 FA_{110}	15.4	X	270.80102	274.98528	225.84131	10.64746	0.2136286	0.24008978	2.5638165	21	11 25.9	18.2
91083 1998 FR_{110}	15.3	X	62.69128	304.77782	297.06052	7.27418	0.0663517	0.22411180	2.6842702	21	8 12.1	18.9
91084 1998 FT_{118}	15.5	X	303.08286	142.31846	350.81388	6.80742	0.2146688	0.24268532	2.5455036	21	—	—
91085 1998 FK_{119}	15.2	X	275.46049	274.52298	213.35314	12.30784	0.1065596	0.23773193	2.5807407	21	12 1.6	18.4
91086 1998 FF_{120}	15.8	X	299.87320	129.26996	358.41405	13.15663	0.1224108	0.24223619	2.5486490	21	—	—
91087 1998 FO_{120}	15.0	X	159.19571	146.26746	355.33770	11.89753	0.1385410	0.22714657	2.6603080	21	8 7.2	19.3
91088 1998 FQ_{120}	15.4	X	229.70413	88.57795	4.90398	13.74876	0.0648557	0.22992091	2.6388644	21	8 26.1	19.2
91089 1998 FW_{126}	15.3	X	215.75401	18.26839	148.79833	15.30315	0.1591098	0.23846115	2.5754767	21	11 3.3	19.4
91090 1998 FG_{127}	16.5	X	155.19144	312.94125	355.41945	19.83395	0.0484292	0.37158855	1.9161426	21	—	—
91091 1998 FD_{129}	16.0	X	143.14077	328.89952	346.85736	18.77556	0.0647929	0.37168507	1.9158109	21	—	—
91092 1998 FA_{135}	15.5	X	319.27235	348.19637	328.07754	3.94050	0.0988451	0.22126700	2.7072287	21	6 12.6	18.9
91093 1998 GS	14.6	X	8.39646	322.58510	21.69454	14.48521	0.1213421	0.23033006	2.6357384	21	10 18.5	17.5
91094 1998 GF_{7}	14.9	X	166.71411	92.46049	96.03036	14.44199	0.0919195	0.23115858	2.6294366	21	10 17.1	19.1
91095 1998 GZ_{8}	15.1	X	245.20184	9.98144	135.20670	14.95323	0.2025105	0.23677199	2.5877114	21	11 3.4	19.0
91096 1998 GK_{11}	15.6	X	40.61107	309.29061	182.07783	13.68468	0.1919513	0.25546594	2.4598807	21	1 30.6	17.9
91097 1998 GK_{12}	16.0	X	196.39439	141.00105	3.32715	7.22145	0.1217580	0.23170391	2.6253093	21	9 14.2	19.8
91098 1998 HB_{3}	16.5	X	312.30931	307.27837	221.58933	23.29954	0.0856619	0.37194872	1.9149055	21	—	—
91099 1998 HK_{7}	14.1	X	227.02277	74.91148	51.59076	22.68458	0.2818310	0.27512768	2.3412432	21	9 23.9	18.3
91100 1998 HK_{14}	14.5	X	28.29850	171.71014	66.71978	27.82750	0.1025033	0.22004878	2.7172112	21	6 16.8	17.8
91101 1998 HK_{15}	14.8	X	321.54895	326.30810	63.94334	14.34271	0.1899939	0.22614718	2.6681399	21	10 2.9	17.7
91102 1998 HL_{19}	15.3	X	249.11829	321.64472	201.60802	12.23833	0.0756442	0.23816766	2.5775921	21	12 14.8	18.8
91103 1998 HG_{21}	14.7	X	328.71928	16.59923	35.62774	3.21477	0.1449761	0.23558546	2.5963928	21	11 14.3	17.1
91104 1998 HH_{25}	15.6	X	208.27771	301.64270	42.14481	6.40068	0.0515202	0.21157272	2.7893067	21	3 10.0	19.7
91105 1998 HP_{25}	15.7	X	264.95132	131.18821	152.55129	4.83511	0.0335032	0.21089792	2.7952534	21	2 27.5	19.5
91106 1998 HF_{29}	15.1	X	246.93421	213.11549	253.97825	3.32099	0.1534457	0.23220933	2.6214985	21	9 15.5	18.8
91107 1998 HY_{34}	14.8	X	21.31204	163.68709	50.41597	12.62000	0.1099764	0.21625816	2.7488711	21	5 5.6	18.0
91108 1998 HX_{37}	14.7	X	273.90913	78.82355	9.78576	13.95635	0.1479934	0.23271614	2.6176910	21	9 29.9	17.9
91109 1998 HG_{38}	13.7	X	331.34638	90.71583	18.88452	15.50781	0.0284478	0.24052813	2.5607006	21	—	—
91110 1998 HF_{45}	14.9	X	320.34914	125.49625	355.23520	6.24429	0.1845418	0.24276980	2.5449130	21	—	—
91111 1998 HU_{47}	13.8	X	172.95809	57.08152	55.75756	10.71897	0.0535222	0.22267279	2.6958225	21	7 10.6	17.8
91112 1998 HJ_{52}	14.2	X	331.52653	60.87428	32.72793	7.76275	0.1657733	0.23956267	2.5675759	21	—	—
91113 1998 HA_{53}	14.0	X	92.90080	8.74307	10.93243	16.12889	0.1490587	0.24356291	2.5393854	21	—	—
91114 1998 HF_{60}	14.9	X	219.12662	284.17757	11.96581	14.67984	0.1467640	0.20394077	2.8584681	21	1 25.1	19.8
91115 1998 HB_{73}	14.7	X	106.96235	122.16738	0.81290	4.89330	0.0446522	0.21525641	2.7573929	21	4 30.1	18.4
91116 1998 HD_{75}	15.8	X	237.02463	200.25146	140.81414	2.12161	0.0414347	0.21281491	2.7784420	21	4 6.9	19.6
91117 1998 HT_{79}	15.1	X	316.32124	312.51202	295.31061	2.34996	0.0367933	0.21106125	2.7938111	21	3 16.7	19.0
91118 1998 HU_{88}	15.6	X	64.43461	339.88631	220.58732	4.10940	0.0502706	0.21846237	2.7303498	21	6 17.6	19.1
91119 1998 HV_{88}	15.3	X	328.21135	256.19755	34.29334	8.77773	0.0902894	0.21648068	2.7469871	21	5 21.7	18.7
91120 1998 HR_{99}	15.1	X	83.86755	30.59419	162.56587	4.89358	0.0649648	0.21963558	2.7206181	21	7 6.6	18.7

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
91121 1998 HS_{105}	14.3	X	322.40242	250.50408	62.43358	12.45978	0.1497483	0.21880325	2.7275133	21	6 5.3	17.3
91122 1998 HE_{112}	14.8	X	210.46149	355.23571	127.69251	13.77421	0.2284124	0.22955883	2.6416385	21	8 25.6	19.2
91123 1998 HP_{114}	14.2	X	250.82213	52.62341	66.98085	15.58942	0.0134506	0.23144598	2.6272594	21	11 2.9	17.8
91124 1998 HA_{118}	14.9	X	359.49450	72.21326	121.71295	8.89778	0.1691963	0.21085015	2.7956756	21	2 25.4	17.9
91125 1998 HT_{118}	15.1	X	216.30894	355.25996	127.49909	14.05337	0.1240413	0.22858199	2.6491591	21	9 9.7	19.2
91126 1998 HZ_{120}	14.7	X	180.49001	73.07141	71.58231	13.53631	0.1182374	0.22631949	2.6667854	21	9 4.2	19.1
91127 1998 HY_{122}	14.7	X	88.07114	340.69840	184.37436	11.02033	0.0675445	0.21701193	2.7425021	21	6 6.2	18.6
91128 1998 HV_{133}	15.5	X	109.26144	96.62832	91.41890	5.46090	0.0437182	0.22428539	2.6828850	21	7 31.8	19.2
91129 1998 HT_{135}	15.4	X	99.49760	31.15861	202.35079	8.82290	0.0701115	0.22787085	2.6546679	21	9 18.8	19.2
91130 1998 HQ_{142}	14.9	X	301.37497	220.44938	127.11405	6.91705	0.0564153	0.22136701	2.7064133	21	7 5.3	18.3
91131 1998 HX_{144}	14.5	X	332.05913	322.09961	52.36164	18.64465	0.0901983	0.22738352	2.6584596	21	10 7.2	17.9
91132 1998 HL_{150}	15.5	X	353.94771	229.97655	56.30425	4.09622	0.0540545	0.22175806	2.7032307	21	6 30.3	18.8
91133 1998 HK_{151}	7.6	X	31.82677	182.25007	50.28252	5.94355	0.2312722	0.00394793	39.6481344	21	7 4.9	22.7
91134 1998 HC_{154}	14.4	X	58.35140	104.37137	88.07493	13.63665	0.1479010	0.21664537	2.7455947	21	6 12.3	17.7
91135 1998 HC_{155}	15.2	X	322.09622	115.98971	216.66517	2.27082	0.0887150	0.22297378	2.6933959	21	7 11.7	18.4
91136 1998 KK_{6}	14.8	X	261.58313	62.40224	59.63105	29.10253	0.2244673	0.23335573	2.6129057	21	10 27.6	18.6
91137 1998 KD_{29}	14.2	X	16.67580	33.00214	70.59402	14.59243	0.1188125	0.24342771	2.5403255	21	—	—
91138 1998 KO_{30}	15.0	X	180.25573	132.66192	36.42687	5.86344	0.1521221	0.22807451	2.6530873	21	9 28.6	19.2
91139 1998 KL_{47}	14.3	X	292.44351	66.47973	95.51261	13.76040	0.0994215	0.23892546	2.5721389	21	—	—
91140 1998 LW_{1}	14.9	X	330.22904	220.23355	90.81036	9.28168	0.0533616	0.21637887	2.7478487	21	6 28.2	18.2
91141 1998 LF_{3}	14.2	X	268.59325	40.08904	103.32821	29.98629	0.1912373	0.23547370	2.5972142	21	12 6.0	17.7
91142 1998 MP_{2}	14.4	X	87.43822	109.75792	261.70533	10.69719	0.0322922	0.19051168	2.9912656	21	—	—
91143 1998 MC_{6}	15.2	X	186.02028	239.93719	65.54111	2.97313	0.0351265	0.19979608	2.8978645	21	—	—
91144 1998 MK_{34}	14.8	X	81.97575	226.96731	102.41475	9.11761	0.2535341	0.18328892	3.0693418	21	—	—
91145 1998 OX	14.6	X	345.14114	114.75126	281.00145	9.40700	0.0671830	0.17996168	3.1070580	21	11 4.2	18.7
91146 1998 OA_{1}	14.6	X	123.10142	29.96011	281.16120	7.97165	0.1217023	0.18552966	3.0445783	21	—	—
91147 1998 OM_{2}	14.8	X	166.74422	270.41486	268.69132	1.75230	0.0238023	0.17650473	3.1474957	21	9 22.1	19.4
91148 1998 OY_{2}	14.3	X	334.35277	105.06600	289.74401	14.59937	0.1207993	0.17742468	3.1366064	21	10 11.8	18.5
91149 1998 PS	15.3	X	6.35203	230.13460	161.22905	1.31371	0.1748221	0.17720671	3.1391780	21	12 12.1	18.8
91150 1998 QA_{30}	14.7	X	114.68884	108.27033	173.88926	15.89670	0.1669617	0.18171116	3.0870831	21	12 8.6	20.0
91151 1998 QJ_{39}	13.9	X	326.95737	286.96490	142.37621	17.13659	0.1817911	0.17698835	3.1417595	21	11 24.0	17.7
91152 1998 QW_{41}	13.7	X	35.05930	13.23766	345.10347	18.06732	0.1568218	0.17813268	3.1282899	21	12 9.3	18.2
91153 1998 QP_{44}	14.9	X	37.47688	293.46459	26.07689	1.05957	0.1793925	0.17508349	3.1645059	21	10 30.4	19.0
91154 1998 QM_{50}	14.6	X	31.40951	193.57995	135.78278	8.06462	0.1913354	0.17496809	3.1658972	21	11 7.8	18.7
91155 1998 QW_{50}	14.0	X	314.43770	82.70974	350.50793	15.54864	0.1966898	0.17482604	3.1676119	21	10 22.4	17.9
91156 1998 QS_{60}	14.7	X	59.11620	293.18618	334.01249	11.31247	0.0936092	0.17221296	3.1995740	21	9 9.6	19.1
91157 1998 QG_{62}	14.3	X	351.45996	150.16462	297.75887	9.91472	0.0602963	0.18427882	3.0583400	21	—	—
91158 1998 QG_{70}	13.9	X	41.59050	42.76888	275.22965	14.62776	0.0915520	0.17513513	3.1638838	21	10 15.7	18.4
91159 1998 QA_{73}	14.4	X	346.23477	202.86912	184.20526	17.53420	0.2877076	0.17294198	3.1905760	21	11 6.1	17.3
91160 1998 QJ_{74}	14.5	X	350.12249	68.59310	317.57559	14.44010	0.0601872	0.17558336	3.1584970	21	10 25.0	19.0
91161 1998 QN_{74}	14.5	X	36.11594	154.97745	182.31987	27.72880	0.1724226	0.17620115	3.1511100	21	11 21.2	19.1
91162 1998 QX_{75}	14.3	X	49.97954	157.87688	188.70508	17.83933	0.1495669	0.17813293	3.1282869	21	12 15.0	19.0
91163 1998 QZ_{82}	13.3	X	346.59955	54.44672	277.82505	20.07090	0.0442753	0.16926895	3.2365663	21	8 10.6	18.0
91164 1998 QE_{84}	13.7	X	307.74738	121.40593	292.04604	14.53713	0.0162772	0.17451163	3.1714154	21	10 2.4	18.5
91165 1998 QF_{84}	14.1	X	72.87953	1.38694	299.51708	14.14249	0.1417264	0.17766939	3.1337257	21	11 11.9	19.0
91166 1998 QT_{84}	14.1	X	60.41456	142.81724	253.39318	13.71186	0.1984813	0.18414412	3.0598312	21	—	—
91167 1998 QM_{85}	14.6	X	27.53422	57.92513	283.45086	13.40020	0.0801906	0.17524225	3.1625944	21	10 25.2	19.0
91168 1998 QA_{86}	14.2	X	57.93345	22.61256	279.15239	15.38541	0.0926477	0.17468047	3.1693714	21	10 16.5	18.9
91169 1998 QT_{108}	14.4	X	48.46018	129.96109	191.56717	4.85628	0.1430985	0.17742030	3.1366581	21	11 12.6	18.6
91170 1998 QS_{109}	14.6	X	74.31948	182.83613	137.05637	0.80450	0.1667171	0.18007494	3.1057550	21	12 12.8	19.1
91171 1998 QG_{110}	14.3	X	359.86127	28.99370	324.47905	12.93094	0.1240727	0.17352177	3.1834649	21	10 1.4	18.4
91172 1998 RG_{5}	14.6	X	87.26112	241.15254	39.43411	9.73546	0.0750520	0.17468858	3.1692734	21	10 29.9	19.2
91173 1998 RN_{7}	14.8	X	87.09240	21.22096	343.44621	9.68251	0.0993475	0.18528781	3.0472271	21	—	—
91174 1998 RC_{18}	14.1	X	105.36086	310.79313	1.31145	12.26458	0.3084558	0.18360587	3.0658084	21	—	—
91175 1998 RX_{18}	14.5	X	72.78758	307.24396	351.85586	17.17671	0.2411508	0.17874622	3.1211273	21	11 19.7	19.6
91176 1998 RE_{19}	13.9	X	51.90785	19.57564	352.28611	15.63120	0.1143210	0.18189312	3.0850239	21	—	—
91177 1998 RJ_{22}	14.6	X	8.06788	132.56560	203.88385	4.99426	0.1382907	0.17279570	3.1923765	21	9 29.4	18.4
91178 1998 RV_{23}	14.4	X	345.47433	177.91638	201.38047	4.82613	0.1465202	0.17362811	3.1821650	21	10 17.8	18.0
91179 1998 RR_{26}	14.7	X	81.98878	339.14052	356.89766	9.09764	0.1069859	0.18158090	3.0885592	21	—	—
91180 1998 RS_{34}	15.0	X	34.48024	209.67605	102.86199	2.57651	0.1897325	0.17392613	3.1785288	21	10 19.9	19.0
91181 1998 RV_{38}	14.3	X	47.65804	23.75568	355.68586	15.51616	0.1222461	0.18105438	3.0945442	21	—	—
91182 1998 RO_{49}	14.9	X	272.40756	300.87423	110.62003	1.47384	0.2440127	0.16527768	3.2884651	21	7 22.1	19.8
91183 1998 RZ_{49}	13.8	X	28.10735	46.80884	5.64621	13.14632	0.1625851	0.18144246	3.0901301	21	—	—
91184 1998 RA_{51}	14.7	X	6.35443	125.25140	215.38654	5.46425	0.0702641	0.17141088	3.2095474	21	9 26.5	18.9
91185 1998 RM_{57}	14.4	X	7.73341	222.61476	117.21183	1.47802	0.1827557	0.17201791	3.2019922	21	10 8.8	17.9
91186 1998 RO_{66}	14.0	X	10.03610	108.51109	338.98677	7.09495	0.1941966	0.18203464	3.0834248	21	—	—
91187 1998 RW_{66}	13.6	X	24.97399	45.18613	348.52411	16.33647	0.2025894	0.17769277	3.1334508	21	—	—
91188 1998 RP_{77}	14.5	X	29.47035	304.21757	29.94401	8.20492	0.1872345	0.17367222	3.1816261	21	11 6.1	18.4
91189 1998 SM_{1}	14.0	X	26.77082	124.53957	200.72758	33.86688	0.1597257	0.17079773	3.2172242	21	10 18.6	17.9
91190 1998 SV_{49}	14.2	X	239.36561	73.70662	29.58460	4.81132	0.0814538	0.16917817	3.2377240	21	9 9.7	18.9
91191 1998 SE_{55}	12.9	X	161.26368	181.84960	359.37312	14.59175	0.0569878	0.17104416	3.2141333	21	9 19.7	17.7
91192 1998 SA_{58}	13.8	X	53.60023	285.36891	16.48427	17.34681	0.1441006	0.17392638	3.1785258	21	10 22.1	18.3
91193 1998 ST_{76}	14.3	X	52.40745	117.57804	207.50206	20.70267	0.1247636	0.17596261	3.1539571	21	11 19.1	18.8
91194 1998 SB_{85}	13.8	X	294.61650	91.36664	16.82016	16.29396	0.0738042	0.17746476	3.1361341	21	11 19.9	18.2
91195 1998 SC_{90}	14.1	X	276.89173	152.05718	299.82687	4.30238	0.0785310	0.17265745	3.1940804	21	10 8.2	18.5
91196 1998 SV_{107}	14.4	X	6.86961	352.15904	354.84423	8.06275	0.1839882	0.17145107	3.2090457	21	10 13.6	18.0
91197 1998 SD_{115}	14.6	X	352.49915	217.10787	194.72650	11.65237	0.1020407	0.17596856	3.1538860	21	12 9.3	18.7
91198 1998 SS_{137}	14.5	X	326.98456	311.35848	86.48015	4.86609	0.1232036	0.17035713	3.2227690	21	10 12.6	18.5
91199 Johngray	13.4	X	159.28884	167.55260	31.35689	22.08465	0.0658197	0.16969903	3.2310956	21	10 12.5	18.4
91200 1998 SM_{153}	14.0	X	109.33424	47.77722	183.09721	26.93065	0.1441699	0.17155761	3.2077171	21	10 1.3	19.0

ELEMENTS AND OPPOSITION DATES IN 2021

ECLIPTIC AND EQUINOX 2000.0, EPOCH 2021 JULY 5.0 TT

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
91201 1998 SC_{162}	13.8	X	295.30092	45.35666	38.94767	16.82328	0.0803511	0.17235525	3.1978128	21	10 26.7	18.0
91202 1998 SY_{170}	14.6	X	73.48200	3.93075	324.27889	9.39290	0.0881627	0.17915621	3.1163638	21	12 11.7	19.3
91203 1998 UE_{18}	16.4	X	211.97501	193.63973	299.53500	6.47495	0.0570264	0.29805864	2.2195669	21	9 24.7	19.2
91204 1998 UW_{32}	13.3	X	69.89329	261.50217	47.37373	11.76166	0.1814602	0.17644114	3.1482520	21	11 25.3	17.9
91205 1998 US_{43}	8.0	X	68.44356	139.70152	223.82977	10.60518	0.1345232	0.00401698	39.1925278	21	12 19.4	23.8
91206 1998 WY_{7}	16.1	X	33.80811	330.07207	63.97283	7.12914	0.1838067	0.30752135	2.1737981	21	—	—
91207 1998 XW_{27}	13.9	X	3.40641	54.49868	346.02361	9.97748	0.1273429	0.17263872	3.1943113	21	12 11.5	18.1
91208 1998 XO_{58}	16.1	X	229.86346	9.69230	107.94664	6.16758	0.1343381	0.29296700	2.2452097	21	9 22.3	19.1
91209 1998 XH_{72}	16.1	X	323.07918	73.00235	356.22489	7.95265	0.1187191	0.29977725	2.2110757	21	12 16.9	18.1
91210 1998 XS_{96}	16.9	X	43.79050	304.03217	110.38807	2.27148	0.2764923	0.30780790	2.1724487	21	—	—
91211 1998 YJ_{2}	15.5	X	101.30490	279.81928	312.29078	5.86907	0.0791362	0.28689174	2.2767955	21	9 24.9	18.5
91212 1998 YQ_{7}	14.9	X	72.08424	147.78292	21.49499	27.03146	0.1471179	0.27773901	2.3265450	21	5 16.5	17.9
91213 Botchan	16.8	X	71.18823	229.96063	137.38891	4.52474	0.1704049	0.30693783	2.1765523	21	—	—
91214 Diclemente	16.7	X	333.30472	199.01408	270.27097	2.71054	0.0702488	0.30603602	2.1808260	21	—	—
91215 1999 AN	15.7	X	359.22419	158.90737	17.06103	2.32851	0.1502825	0.26935085	2.3746001	21	1 15.8	18.2
91216 1999 AU_{3}	15.6	X	219.42038	117.69806	337.61327	7.12710	0.1202236	0.28661104	2.2782818	21	8 8.9	18.7
91217 1999 AM_{4}	15.2	X	14.80192	70.33707	87.13385	4.26070	0.0521470	0.31226141	2.1517435	21	1 15.7	17.4
91218 1999 AM_{5}	14.9	X	218.43802	108.27470	1.05441	9.53031	0.1297175	0.28818651	2.2699709	21	8 27.9	18.0
91219 1999 AN_{7}	16.3	X	350.94890	178.51565	263.78288	2.68545	0.1111366	0.30331297	2.1938591	21	—	—
91220 1999 AA_{8}	14.9	X	82.25363	110.25217	51.93440	6.72518	0.2001968	0.27626931	2.3347889	21	6 11.7	17.7
91221 1999 AM_{15}	16.4	X	68.49307	296.93547	302.45444	5.29791	0.1177089	0.28474563	2.2882212	21	8 29.2	19.1
91222 1999 AH_{16}	16.4	X	60.56521	222.10888	313.39464	1.90818	0.1712498	0.27551791	2.3390320	21	5 21.3	18.6
91223 1999 AK_{20}	16.2	X	286.59976	86.80384	117.67812	2.24530	0.1334695	0.26088862	2.4256751	21	—	—
91224 1999 BH	16.2	X	314.96639	71.51508	49.41615	2.18764	0.1412653	0.30138688	2.2031961	21	—	—
91225 1999 BL_{3}	15.8	X	323.39371	233.16497	330.05372	2.05802	0.1167548	0.26740942	2.3860795	21	1 5.6	18.9
91226 1999 BK_{7}	15.8	X	145.36004	113.93416	337.77784	2.72403	0.1218512	0.27647725	2.3336181	21	5 11.8	19.1
91227 1999 BG_{9}	16.2	X	233.08142	358.58410	172.47503	1.33660	0.2831482	0.29478572	2.2359655	21	11 14.8	19.0
91228 1999 BG_{13}	15.4	X	304.89470	204.43348	292.60761	4.30008	0.0802107	0.30105640	2.2048082	21	—	—
91229 1999 BN_{15}	14.8	X	70.76384	61.58190	157.20488	8.93188	0.1648620	0.27759661	2.3273406	21	8 10.7	17.6
91230 1999 BK_{16}	15.1	X	146.67904	263.98252	320.11720	7.54597	0.1000912	0.29488888	2.2354440	21	11 7.2	18.4
91231 1999 BP_{24}	15.0	X	122.92131	185.72287	251.07884	2.21133	0.0301719	0.31733452	2.1287492	21	3 3.8	17.4
91232 1999 BE_{25}	15.6	X	247.67127	359.11053	135.30193	6.68247	0.1177703	0.29493620	2.2352049	21	11 11.2	18.3
91233 1999 CL_{1}	16.1	X	138.51935	127.19768	7.77358	5.78948	0.1399804	0.27904198	2.3192969	21	7 5.7	19.5
91234 1999 CN_{1}	15.5	X	185.51360	66.75393	2.84591	7.13875	0.1212079	0.27880132	2.3206314	21	5 24.7	19.1
91235 1999 CQ_{1}	15.2	X	328.68961	17.09412	29.33481	5.01066	0.0968681	0.29300557	2.2450127	21	11 18.9	17.3
91236 1999 CP_{4}	16.0	X	19.22116	20.97050	148.57511	3.33381	0.1067946	0.26991433	2.3712941	21	2 15.4	18.0
91237 1999 CY_{7}	14.5	X	136.21640	205.77744	345.12101	26.89137	0.1960886	0.28377261	2.2934489	21	9 14.8	18.2
91238 1999 CB_{9}	15.8	X	32.12860	5.58258	34.79997	3.72674	0.1088830	0.30106931	2.2047451	21	—	—
91239 1999 CA_{10}	16.1	X	47.20991	35.58001	123.03901	3.02146	0.1430114	0.26879995	2.3778435	21	3 27.9	18.1
91240 1999 CM_{27}	16.1	X	306.14335	47.70368	56.99947	5.35354	0.1100861	0.29833674	2.2181874	21	—	—
91241 1999 CY_{28}	16.4	X	43.92286	21.85548	147.70755	2.48602	0.1462276	0.27193830	2.3595135	21	4 6.5	18.3
91242 1999 CX_{32}	15.5	X	106.40797	211.51495	344.27867	8.37951	0.1224227	0.28205869	2.3027302	21	8 20.9	18.6
91243 1999 CO_{33}	16.5	X	14.69029	48.64548	127.24983	2.69443	0.1586857	0.26860127	2.3790159	21	2 12.5	18.6
91244 1999 CP_{33}	16.0	X	155.14459	178.57032	324.36191	0.09980	0.1317609	0.28276022	2.2989199	21	8 2.2	19.4
91245 1999 CN_{34}	15.7	X	334.96267	104.85002	64.94371	1.48071	0.1101465	0.26337668	2.4103744	21	—	—
91246 1999 CE_{35}	15.6	X	91.72750	96.31848	98.31718	5.71972	0.1882244	0.27948175	2.3168633	21	8 9.8	18.7
91247 1999 CM_{40}	15.5	X	287.15484	84.61623	46.96047	6.44323	0.1294545	0.29821157	2.2188080	21	—	—
91248 1999 CC_{44}	15.2	X	108.74408	111.30129	40.03017	6.32959	0.2273485	0.27772090	2.3266461	21	7 4.4	18.7
91249 1999 CQ_{44}	15.8	X	278.05383	133.47759	90.76890	7.95188	0.0737336	0.26263320	2.4149212	21	—	—
91250 1999 CZ_{46}	15.8	X	54.84658	91.70925	40.57230	2.86003	0.1074299	0.26913098	2.3758932	21	2 27.5	18.0
91251 1999 CN_{49}	15.7	X	133.15804	135.85697	28.83760	7.30175	0.1235303	0.28178641	2.3042133	21	8 10.8	19.1
91252 1999 CS_{49}	13.9	X	235.88931	339.54397	350.81951	24.74780	0.2439498	0.27163422	2.3612741	21	3 7.3	17.8
91253 1999 CM_{65}	15.6	X	260.94812	185.84842	271.56678	6.30747	0.0999829	0.29140177	2.2532425	21	10 4.5	18.2
91254 1999 CB_{79}	16.1	X	135.31927	161.30938	326.24134	6.57205	0.0804718	0.27844030	2.3226369	21	6 14.9	19.3
91255 1999 CJ_{79}	15.8	X	334.34613	355.75177	194.24565	2.30959	0.1372291	0.26450856	2.4034932	21	—	—
91256 1999 CX_{80}	14.6	X	263.58353	263.74811	251.44793	4.67083	0.0949257	0.29681153	2.2257798	21	—	—
91257 1999 CG_{82}	16.1	X	32.18738	237.65092	105.99633	3.22622	0.0958524	0.29475085	2.2361418	21	12 4.2	18.5
91258 1999 CE_{84}	15.5	X	176.97712	55.98428	62.85522	7.95304	0.0595438	0.28460311	2.2889851	21	7 25.8	18.6
91259 1999 CB_{85}	15.5	X	224.38805	217.80346	333.20305	5.41429	0.0889530	0.29791014	2.2203045	21	12 30.6	18.2
91260 1999 CK_{87}	15.9	X	252.50142	48.08291	31.54616	2.59779	0.1865389	0.28994385	2.2607894	21	8 18.4	18.7
91261 1999 CY_{94}	16.0	X	132.86526	97.51088	94.34473	6.10557	0.1049891	0.28501514	2.2867785	21	9 15.6	19.2
91262 1999 CM_{99}	15.8	X	64.91163	231.73379	336.08451	6.20849	0.0564715	0.27808530	2.3246132	21	6 29.4	18.5
91263 1999 CD_{104}	16.2	X	236.43292	284.31015	156.49469	3.68800	0.1402828	0.28643598	2.2792099	21	8 4.6	19.1
91264 1999 CO_{104}	16.5	X	75.02607	270.98519	233.73174	1.76073	0.1062972	0.27342535	2.3509508	21	4 19.3	18.9
91265 1999 CY_{108}	16.0	X	228.74594	243.21507	226.47593	6.39080	0.1525781	0.28876357	2.2669457	21	8 31.8	19.3
91266 1999 CV_{112}	16.1	X	75.19670	259.65939	306.61826	4.26587	0.0368261	0.28012839	2.3132965	21	7 9.4	18.7
91267 1999 CY_{113}	15.7	X	292.35768	122.58129	224.67423	6.47202	0.1448117	0.28073304	2.3099737	21	6 5.8	18.3
91268 1999 CT_{135}	16.3	X	240.61074	309.07002	341.28871	5.15065	0.1269357	0.26374266	2.4081441	21	1 25.6	20.0
91269 1999 CW_{136}	16.2	X	284.84718	339.16013	302.75952	3.54868	0.1440536	0.27252828	2.3561069	21	2 24.7	19.6
91270 1999 CA_{138}	16.0	X	213.77472	326.90096	325.32356	2.14067	0.2192825	0.26180258	2.4200264	21	1 3.7	20.1
91271 1999 CB_{147}	16.3	X	16.31076	74.41395	337.16193	7.54025	0.1154663	0.29861416	2.2168133	21	—	—
91272 1999 CR_{151}	15.7	X	359.69755	335.63801	324.58314	4.11216	0.1034926	0.28307646	2.2972074	21	8 2.5	17.8
91273 1999 DN	13.3	X	15.69056	121.29737	311.51129	7.68962	0.1887179	0.12667043	3.9266231	21	—	—
91274 1999 DM_{3}	15.3	X	114.43689	357.68136	159.00151	2.81385	0.1605839	0.27655238	2.3331954	21	7 9.5	18.5
91275 Billsmith	16.5	X	19.39292	46.65415	125.43178	2.92544	0.1444568	0.26724779	2.3870415	21	2 18.2	18.5
91276 1999 EH_{6}	15.7	X	228.10222	289.75801	342.76173	6.31355	0.1621361	0.25921671	2.4360940	21	—	—
91277 1999 EW_{6}	15.8	X	107.20353	266.83122	185.45686	1.97260	0.1334480	0.27026140	2.3692635	21	3 29.2	18.5
91278 1999 EC_{7}	16.2	X	165.27794	240.56219	170.79886	5.55601	0.1313073	0.27201243	2.3590848	21	4 13.2	19.6
91279 1999 EN_{8}	15.7	X	278.74900	323.27339	333.20021	7.75912	0.1320615	0.27125750	2.3634597	21	3 10.0	18.9
91280 1999 EO_{11}	16.2	X	197.27932	271.41249	25.16380	1.62109	0.1816340	0.26052296	2.4279443	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
91281 1999 EQ_{11}	15.0	X	112.91612	140.42126	47.38907	24.34061	0.1317160	0.28187806	2.3037139	21	9 1.6	18.9
91282 1999 FL_{1}	15.8	X	56.46771	276.61802	340.01040	8.64683	0.3155549	0.23408938	2.6074435	21	9 30.9	19.5
91283 1999 FE_{2}	15.5	X	85.54491	340.70147	171.92631	5.17019	0.1632546	0.27398573	2.3477441	21	5 28.9	18.3
91284 1999 FE_{7}	15.7	X	260.01846	92.07944	173.18777	5.19007	0.1748282	0.26106139	2.4246047	21	1 9.6	19.6
91285 1999 FP_{9}	15.1	X	332.79896	327.42261	169.08904	12.37632	0.1619786	0.25779817	2.4450223	21	—	—
91286 1999 FB_{17}	15.9	X	244.72806	291.81924	13.85093	1.40056	0.1862559	0.26802023	2.3824529	21	2 13.8	19.8
91287 Simon-Garfunkel	15.7	X	151.53874	24.99535	160.89518	6.22520	0.1067178	0.28448892	2.2895975	21	9 25.9	18.9
91288 1999 FZ_{21}	15.8	X	87.11209	298.10895	201.58276	5.51180	0.1822237	0.27386270	2.3484471	21	5 15.4	18.6
91289 1999 FN_{22}	15.4	X	164.04039	148.46566	315.68327	7.13558	0.0908879	0.27898786	2.3195969	21	6 18.2	18.7
91290 1999 FR_{25}	14.5	X	129.67631	225.78540	10.39124	7.70240	0.0628215	0.28657955	2.2784487	21	11 3.4	17.5
91291 1999 FD_{27}	15.5	X	42.40870	95.63239	164.37257	12.63060	0.2177101	0.23194069	2.6235223	21	9 2.0	18.5
91292 1999 FF_{27}	14.8	X	204.67255	345.28185	131.32239	4.87173	0.0771811	0.28228163	2.3015176	21	8 24.0	17.7
91293 1999 FD_{28}	14.4	X	27.05951	302.32246	7.76822	28.30853	0.1879896	0.23629607	2.5911848	21	10 8.6	17.3
91294 1999 FD_{29}	15.7	X	162.55111	110.61651	30.06584	7.26459	0.1015479	0.27992439	2.3144203	21	8 9.6	19.1
91295 1999 FK_{29}	15.7	X	217.52191	28.30022	83.16592	3.62490	0.0907517	0.28328014	2.2961062	21	9 1.6	18.8
91296 1999 FW_{29}	14.9	X	298.84404	13.09006	96.95206	5.30559	0.1152790	0.29376462	2.2411438	21	12 30.9	16.9
91297 1999 FD_{31}	15.6	X	284.08611	170.42043	45.21193	6.98133	0.0880709	0.25821966	2.4423609	21	—	—
91298 1999 FQ_{31}	15.7	X	37.55861	208.93840	20.26182	11.84324	0.2177936	0.22838959	2.6506467	21	7 11.9	18.6
91299 1999 FL_{32}	16.0	X	174.05156	37.34688	88.16813	3.95080	0.1178141	0.27948073	2.3168689	21	7 30.2	19.3
91300 1999 FZ_{34}	14.9	X	124.62176	211.80012	348.56424	5.84258	0.0468871	0.28107079	2.3081228	21	9 9.6	17.8
91301 1999 FM_{36}	15.5	X	114.64513	143.93559	28.39592	3.43162	0.1676352	0.27871280	2.3211228	21	8 2.7	18.9
91302 1999 FU_{36}	15.8	X	86.75812	45.87720	202.06141	18.56131	0.2542035	0.23626481	2.5914133	21	10 16.3	19.8
91303 1999 FG_{41}	16.1	X	346.85818	249.09559	178.68594	3.30153	0.1375241	0.29739798	2.2228528	21	—	—
91304 1999 FU_{44}	12.8	X	351.93229	131.07936	326.50673	7.69663	0.1883390	0.12483245	3.9650718	21	—	—
91305 1999 FK_{46}	16.0	X	151.29137	341.97930	109.68720	2.24446	0.0756769	0.27483742	2.3428913	21	5 16.1	19.0
91306 1999 FE_{47}	16.2	X	49.05128	188.31934	17.25126	2.67155	0.1486904	0.27437124	2.3455444	21	6 12.7	18.5
91307 1999 FU_{48}	15.4	X	253.24839	147.53417	5.51306	10.02988	0.0346186	0.29439512	2.2379428	21	12 26.6	18.2
91308 1999 FY_{52}	15.1	X	354.21318	55.72737	359.06670	7.04456	0.0799895	0.29520627	2.2338414	21	—	—
91309 1999 FB_{55}	15.3	X	281.86099	351.81224	334.53264	10.05387	0.2177102	0.27270526	2.3550874	21	4 8.2	18.8
91310 1999 GH_{5}	15.8	X	340.85102	45.61183	23.26228	3.20553	0.1411845	0.29504789	2.2346407	21	—	—
91311 1999 GB_{7}	15.0	X	335.85870	22.29047	206.21000	23.20944	0.1760728	0.26462535	2.4027860	21	2 10.5	18.4
91312 1999 GE_{7}	14.8	X	85.72055	354.71106	50.73636	12.98401	0.1395968	0.25714814	2.4491410	21	—	—
91313 1999 GR_{7}	15.6	X	9.43166	54.42829	159.50040	1.47739	0.1331933	0.26877025	2.3780186	21	4 4.1	17.8
91314 1999 GB_{8}	15.8	X	89.88087	252.28779	296.24054	2.93600	0.1030468	0.27709169	2.3301670	21	7 15.6	18.4
91315 1999 GM_{8}	15.6	X	242.48421	116.01180	10.15120	11.19723	0.0465988	0.28745252	2.2738333	21	10 27.6	18.4
91316 1999 GW_{13}	16.3	X	112.97949	240.37146	10.89907	4.39388	0.1621232	0.24138780	2.5546172	21	11 5.3	20.3
91317 1999 GV_{17}	15.4	X	72.13216	103.47649	90.13549	6.81392	0.1546646	0.27476513	2.3433022	21	7 5.8	17.9
91318 1999 GO_{18}	15.2	X	3.66916	44.46724	122.01673	7.27231	0.2070966	0.26395848	2.4068312	21	1 1.9	17.5
91319 1999 GR_{24}	15.7	X	27.83593	77.90155	71.52937	2.63817	0.1567006	0.26566103	2.3965370	21	1 31.9	17.7
91320 1999 GS_{24}	15.7	X	52.25312	109.79419	65.11129	2.99970	0.1394792	0.27090874	2.3654878	21	4 30.9	17.8
91321 1999 GX_{25}	15.6	X	119.30923	214.06446	18.43972	8.66152	0.1108402	0.23981199	2.5657960	21	10 16.4	19.3
91322 1999 GK_{31}	14.8	X	52.51395	97.87044	201.54784	11.97119	0.1843938	0.23737234	2.5833463	21	11 5.9	18.2
91323 1999 GG_{35}	15.7	X	339.04797	204.53990	322.27789	2.39463	0.1403720	0.26068645	2.4269290	21	—	—
91324 1999 GN_{42}	15.7	X	318.03596	94.34742	138.54995	6.73503	0.0701375	0.26462476	2.4027895	21	2 14.9	18.8
91325 1999 GD_{47}	14.3	X	210.13693	97.17013	49.64122	8.76866	0.0479625	0.28814643	2.2701814	21	10 17.8	17.1
91326 1999 GV_{51}	14.8	X	168.74687	249.53573	260.12922	4.01790	0.0976904	0.28149162	2.3058217	21	8 23.7	18.2
91327 1999 GK_{53}	14.9	X	43.93645	189.29867	347.82683	7.14853	0.0886144	0.26835906	2.3804471	21	4 10.2	17.4
91328 1999 GY_{62}	15.9	X	131.88192	230.89029	13.81032	12.01242	0.2108486	0.24232554	2.5480225	21	11 13.6	20.3
91329 1999 GK_{63}	16.0	X	18.23573	147.60638	7.37386	5.10581	0.1310332	0.26397891	2.4067070	21	1 24.7	18.4
91330 1999 HM_{2}	15.8	X	224.16282	54.66450	46.99882	6.84097	0.1090623	0.28313837	2.2968726	21	8 26.8	18.9
91331 1999 HX_{4}	16.1	X	183.59613	118.40252	19.95612	6.53235	0.1278085	0.28314371	2.2968437	21	8 28.8	19.5
91332 1999 HZ_{9}	15.6	X	72.27066	19.60997	213.42925	6.18887	0.0695131	0.27781044	2.3261462	21	8 15.9	18.5
91333 1999 JP_{2}	15.7	X	134.39538	26.17466	103.23325	5.21498	0.1669331	0.27573149	2.3378240	21	6 25.2	18.9
91334 1999 JK_{8}	15.3	X	32.20195	84.91081	217.19797	27.52691	0.3507799	0.22996023	2.6385635	21	11 6.3	18.4
91335 1999 JT_{9}	15.0	X	89.60443	15.15686	82.14537	5.87539	0.1547907	0.26650908	2.3914504	21	3 17.9	17.7
91336 1999 JW_{13}	15.7	X	329.66338	112.82176	75.68441	5.89156	0.0634935	0.25790467	2.4443491	21	1 4.9	18.8
91337 1999 JG_{14}	15.0	X	38.46228	241.27911	67.14090	30.14498	0.2219697	0.23310189	2.6148023	21	11 11.5	18.5
91338 1999 JR_{14}	15.1	X	9.05376	351.20961	193.71819	5.90503	0.0724093	0.26379431	2.4078297	21	2 22.5	17.9
91339 1999 JR_{15}	13.9	X	203.94710	108.20237	41.41344	18.00740	0.1134916	0.23908320	2.5710075	21	10 6.3	17.9
91340 1999 JZ_{20}	15.5	X	189.17549	74.02974	45.74534	2.97971	0.1633376	0.28000624	2.3139692	21	8 6.6	19.0
91341 1999 JC_{25}	15.7	X	126.19281	334.33520	284.58958	4.49887	0.2273654	0.24065967	2.5597674	21	11 28.9	20.1
91342 1999 JU_{29}	15.7	X	243.94758	42.29193	196.21084	5.95873	0.1059518	0.25395870	2.4696040	21	—	—
91343 1999 JP_{30}	14.7	X	288.45180	345.37567	285.50176	5.30539	0.0962821	0.26273994	2.4142671	21	2 21.0	18.0
91344 1999 JQ_{30}	16.2	X	180.65106	256.19950	304.40953	3.59965	0.1649474	0.24264735	2.5457691	21	11 4.2	20.2
91345 1999 JK_{36}	15.4	X	62.89126	97.74282	73.44298	5.61406	0.1690758	0.26950919	2.3736700	21	5 20.2	17.6
91346 1999 JR_{37}	15.5	X	308.51534	195.90289	356.62505	1.89760	0.1611988	0.25717312	2.4489824	21	—	—
91347 1999 JL_{39}	15.4	X	28.26010	279.01260	30.06838	4.46076	0.2438644	0.23266534	2.6180720	21	10 22.9	18.3
91348 1999 JF_{45}	15.7	X	3.40391	187.57200	55.53097	6.99711	0.2352683	0.22380312	2.6867379	21	5 8.4	17.6
91349 1999 JR_{51}	16.0	X	74.91441	331.29820	207.65405	1.78473	0.1740962	0.27129541	2.3632396	21	6 21.6	18.7
91350 1999 JR_{53}	15.4	X	257.62445	172.53263	76.78261	6.59467	0.0843010	0.25579627	2.4577625	21	—	—
91351 1999 JK_{54}	15.0	X	52.08860	148.18503	52.42202	6.05511	0.1217238	0.22558373	2.6725809	21	6 8.3	18.0
91352 1999 JH_{55}	15.1	X	357.09553	95.73241	215.75506	12.71552	0.1505257	0.22932295	2.6434496	21	8 6.9	18.1
91353 1999 JX_{55}	14.8	X	110.23219	223.09487	212.65630	8.47682	0.1374375	0.26223423	2.4173700	21	3 9.5	17.9
91354 1999 JY_{55}	15.8	X	109.32514	356.06628	226.28752	7.42450	0.1381587	0.23498868	2.6007868	21	9 22.7	19.9
91355 1999 JA_{57}	15.8	X	323.85078	308.14419	237.45015	3.42685	0.0922208	0.25718643	2.4488979	21	—	—
91356 1999 JC_{58}	15.5	X	335.14588	143.96452	34.91263	2.33910	0.1434472	0.25813346	2.4429046	21	—	—
91357 1999 JA_{65}	14.9	X	59.62236	115.42400	64.65637	13.76455	0.1506649	0.22446349	2.6814656	21	5 27.3	17.8
91358 1999 JL_{65}	15.3	X	94.35791	161.78334	65.15978	8.61872	0.1888704	0.23507959	2.6001163	21	9 25.3	19.3
91359 1999 JE_{66}	15.3	X	300.72255	91.70463	185.02572	12.63099	0.1872102	0.22067396	2.7120769	21	3 9.9	19.1
91360 1999 JZ_{66}	14.4	X	324.05398	227.55104	77.50931	7.52478	0.1281580	0.27184081	2.3600776	21	5 28.9	16.7

ELEMENTS AND OPPOSITION DATES IN 2021

ECLIPTIC AND EQUINOX 2000.0, EPOCH 2021 JULY 5.0 TT

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
91361 1999 JW_{68}	15.5	X	102.44977	74.20717	206.24210	12.26431	0.1579672	0.24066614	2.5597215	21	12 2.3	19.6
91362 1999 JN_{71}	15.2	X	308.64968	63.56874	203.49063	12.98534	0.1628430	0.22000009	2.7176121	21	3 9.5	18.9
91363 1999 JM_{72}	15.9	X	97.03248	127.08994	137.53646	5.23524	0.1397067	0.23826877	2.5768628	21	11 7.1	19.8
91364 1999 JY_{78}	14.8	X	329.50907	167.83355	73.18411	8.45145	0.0357448	0.26476613	2.4019342	21	3 24.2	17.8
91365 1999 JL_{84}	14.8	X	123.55669	113.54004	180.92138	13.95217	0.2458221	0.24234364	2.5478956	21	—	—
91366 1999 JT_{84}	14.9	X	350.28300	166.01137	106.21630	17.80235	0.3495436	0.22309677	2.6924058	21	5 13.4	17.1
91367 1999 JE_{86}	15.9	X	120.46609	356.42514	142.07019	7.90070	0.1467299	0.27429500	2.3459790	21	6 20.5	19.3
91368 1999 JB_{89}	15.3	X	45.12935	120.20471	110.05708	12.87544	0.1609718	0.22891807	2.6465656	21	7 16.2	18.0
91369 1999 JW_{90}	15.7	X	150.32515	28.87582	201.47503	13.52230	0.1127860	0.24128924	2.5553128	21	11 16.0	19.7
91370 1999 JQ_{94}	15.5	X	135.54698	90.36938	118.67907	15.04029	0.1280918	0.23743571	2.5828867	21	10 11.5	19.8
91371 1999 JY_{94}	15.3	X	52.16183	105.23725	188.65882	12.94694	0.2310605	0.23401978	2.6079605	21	11 5.4	18.9
91372 1999 JO_{96}	16.1	X	93.05029	34.31860	192.16477	10.19151	0.1923417	0.23317572	2.6142503	21	9 17.6	20.0
91373 1999 JQ_{98}	15.8	X	356.97736	114.03681	166.23622	11.54044	0.1646521	0.22601134	2.6692089	21	6 24.2	18.7
91374 1999 JZ_{98}	15.9	X	22.44177	72.90466	157.15441	13.84404	0.1805985	0.22472969	2.6793477	21	6 5.6	18.8
91375 1999 JD_{99}	14.7	X	87.17926	2.83173	184.61699	13.81268	0.0588266	0.27204085	2.3589205	21	7 1.5	18.0
91376 1999 JU_{100}	15.0	X	8.79039	85.10310	195.24217	13.92348	0.0956350	0.22713561	2.6603936	21	7 14.0	18.4
91377 1999 JR_{103}	15.6	X	253.37544	129.72023	183.75499	8.32145	0.0507502	0.26347463	2.4097769	21	3 13.1	18.8
91378 1999 JE_{104}	15.7	X	22.90358	187.22660	110.79105	16.01256	0.1108153	0.23217059	2.6217901	21	9 13.9	19.1
91379 1999 JN_{105}	15.9	X	89.30277	235.28697	8.13155	2.56059	0.1517525	0.23555749	2.5965983	21	10 2.1	19.7
91380 1999 JW_{105}	15.7	X	91.63874	18.04473	266.03573	4.54609	0.2126903	0.23926988	2.5696700	21	11 29.7	19.9
91381 1999 JR_{109}	13.8	X	319.37520	349.96977	64.74079	14.32267	0.2407026	0.24068182	2.5596103	21	10 31.1	15.9
91382 1999 JZ_{115}	15.7	X	84.19724	293.23702	190.42285	5.91770	0.0634501	0.26462617	2.4027810	21	3 29.1	18.3
91383 1999 JR_{116}	15.6	X	342.11826	291.70399	242.84038	5.32289	0.1235486	0.25853341	2.4403845	21	—	—
91384 1999 JT_{119}	15.4	X	11.95747	340.97695	193.93811	6.58682	0.0620220	0.26135079	2.4228145	21	2 14.1	18.3
91385 1999 JW_{125}	16.2	X	29.40174	49.07793	148.56481	2.40688	0.1312245	0.26854470	2.3793499	21	4 20.6	18.2
91386 1999 JL_{127}	15.5	X	75.96193	78.54621	159.07025	5.24057	0.1801500	0.23119114	2.6291897	21	9 13.0	19.0
91387 1999 JP_{129}	15.0	X	37.53023	59.57370	186.62190	11.49207	0.1512490	0.22788366	2.6545685	21	7 21.9	18.2
91388 1999 JM_{132}	15.6	X	224.38626	21.85685	213.23990	14.51122	0.1162523	0.25216517	2.4813002	21	—	—
91389 1999 JN_{137}	16.0	X	18.31319	78.24264	163.17239	6.26048	0.1639191	0.22574331	2.6713213	21	6 11.0	18.7
91390 1999 KL	15.3	X	64.54139	177.94959	163.23731	6.86027	0.3142505	0.23876065	2.5733225	21	—	—
91391 1999 KQ_5	15.4	X	47.09773	309.10666	82.50895	17.64357	0.2309419	0.24399244	2.5364042	21	—	—
91392 1999 KL_7	14.9	X	356.91109	245.34976	74.70291	17.86491	0.2461714	0.22920847	2.6443298	21	9 12.2	17.5
91393 1999 KV_7	15.4	X	69.92135	108.09983	40.81771	6.77849	0.1507271	0.26885647	2.3775102	21	4 25.5	17.9
91394 1999 LM	15.6	X	51.01909	19.98556	242.09803	13.11257	0.1763410	0.23261303	2.6184645	21	9 5.1	19.1
91395 Sakanouenokumo	15.3	X	54.62118	347.64697	249.38053	10.83949	0.1298943	0.22822825	2.6518958	21	8 1.1	18.8
91396 1999 LF_5	15.2	X	189.70354	356.04067	167.40695	15.54519	0.0458003	0.23706778	2.5855585	21	10 8.5	18.9
91397 1999 LL_8	15.8	X	92.07695	95.98151	150.16287	5.37061	0.1169056	0.23485068	2.6018055	21	10 6.3	19.5
91398 1999 LV_{33}	14.9	X	305.05328	227.07965	94.95544	14.11653	0.1859575	0.22264016	2.6960858	21	5 19.8	18.4
91399 1999 LO_{35}	14.6	X	216.08701	194.12102	134.04875	35.68938	0.1522199	0.21317121	2.7753453	21	2 24.0	19.3
91400 1999 MW	14.6	X	67.64952	125.09084	266.74853	11.15154	0.2115297	0.24199109	2.5503697	21	—	—
91401 1999 MY	15.9	X	269.67041	348.68369	326.05430	1.42836	0.1503868	0.21486662	2.7607267	21	3 28.8	19.9
91402 1999 NW	15.4	X	194.67075	167.22555	182.09833	5.23405	0.1035043	0.20919853	2.8103708	21	2 27.4	19.7
91403 1999 NY_5	15.4	X	222.66847	165.31801	160.86798	14.87740	0.1445946	0.20960034	2.8067780	21	2 26.6	19.8
91404 1999 NT_6	15.1	X	268.97074	19.98677	276.34383	2.41044	0.1666583	0.21216036	2.7841538	21	3 3.5	19.4
91405 1999 NB_{10}	14.5	X	29.60860	62.10458	309.41440	15.90822	0.2454817	0.23279212	2.6171213	21	—	—
91406 1999 NA_{11}	13.5	X	326.60404	92.09471	320.43807	11.81199	0.1648289	0.22999431	2.6383029	21	11 3.2	16.4
91407 1999 NM_{11}	14.9	X	45.42180	318.71914	312.59946	7.91068	0.1733872	0.22597302	2.6695106	21	9 11.8	18.3
91408 1999 NP_{11}	14.0	X	147.26843	200.16845	311.09896	11.84167	0.0971994	0.22181997	2.7027276	21	8 1.7	18.1
91409 1999 NP_{15}	15.5	X	322.10126	339.41625	288.48205	6.55839	0.1408754	0.21743012	2.7389845	21	4 1.5	19.1
91410 1999 NZ_{30}	14.9	X	12.32003	0.15646	332.36908	10.99497	0.2512914	0.22863550	2.6487457	21	10 21.5	17.7
91411 1999 NJ_{41}	14.1	X	357.93425	55.67346	329.56553	13.53107	0.1825236	0.23076043	2.6324602	21	12 2.2	17.1
91412 1999 NP_{42}	14.9	X	350.47666	69.79021	323.37146	11.18543	0.1757378	0.23148614	2.6269555	21	11 28.6	17.8
91413 1999 NN_{49}	14.8	X	289.99393	57.09545	278.88559	10.91481	0.2613210	0.21797620	2.7344081	21	4 29.9	18.9
91414 1999 ND_{54}	14.8	X	39.46389	43.83329	266.15025	12.22932	0.1664547	0.22921706	2.6442637	21	10 23.9	18.4
91415 1999 NH_{54}	15.0	X	309.48082	134.37820	233.93159	11.57464	0.2292880	0.22264938	2.6960114	21	7 17.5	18.2
91416 1999 NH_{55}	14.8	X	106.24894	4.23391	250.32667	11.90451	0.1404532	0.23173111	2.6251038	21	10 30.2	19.0
91417 1999 NU_{55}	14.2	X	280.44572	150.49078	256.22715	10.76807	0.1811153	0.22241396	2.6979135	21	8 1.9	18.0
91418 1999 NY_{56}	14.7	X	314.97152	119.95784	228.90343	10.48341	0.1567632	0.22080158	2.7110317	21	7 11.7	18.0
91419 1999 NP_{59}	14.2	X	202.58629	143.45600	256.68759	12.09262	0.0947806	0.21460573	2.7629636	21	5 8.1	18.5
91420 1999 NK_{60}	15.0	X	306.71904	97.56404	157.20373	13.66378	0.2219698	0.21479443	2.7613452	21	2 14.1	19.0
91421 1999 NA_{65}	14.6	X	334.11008	297.05345	124.73776	14.82024	0.1852173	0.23200240	2.6230571	21	12 12.3	17.3
91422 Giraudon	14.1	X	36.52212	345.21117	305.64297	10.95470	0.1668081	0.22746382	2.6578339	21	9 21.1	17.5
91423 1999 OT_4	15.4	X	0.93788	22.51012	292.62151	4.31165	0.1181263	0.22581555	2.6707515	21	8 22.3	18.4
91424 1999 PT_1	14.4	X	342.24835	313.94388	320.51924	16.86060	0.1449931	0.21740711	2.7391778	21	5 11.3	17.9
91425 1999 PM_2	15.0	X	179.33249	36.83975	328.86254	1.05800	0.0881330	0.20552239	2.8437841	21	3 4.4	19.3
91426 1999 PE_4	15.4	X	53.43805	230.72928	137.13901	8.12475	0.2651488	0.18795772	3.0183014	21	—	—
91427 1999 PB_5	13.7	X	277.22210	345.34109	24.31183	11.45534	0.0817644	0.16974755	3.2304799	21	6 28.3	18.4
91428 Cortesi	14.4	X	326.81625	132.54246	315.65817	11.84718	0.1438092	0.23115828	2.6294389	21	—	—
91429 Michelebianda	14.8	X	265.49791	48.27938	324.28594	10.60589	0.2187353	0.21745448	2.7387800	21	5 26.8	19.1
91430 1999 RL	14.6	X	70.18876	354.12880	66.38768	3.25111	0.0795660	0.19808279	2.9145503	21	—	—
91431 1999 RQ	15.7	X	264.61700	250.87284	90.43388	4.54805	0.0969645	0.21356543	2.7719288	21	5 4.4	19.7
91432 1999 RF_1	15.1	X	152.17437	319.00534	125.02019	5.40713	0.0451781	0.21201599	2.7854175	21	5 9.7	19.1
91433 1999 RL_2	14.1	X	50.64031	320.78285	294.26853	14.10377	0.1721784	0.22374676	2.6871890	21	8 24.9	17.6
91434 1999 RY_3	15.4	X	286.43905	49.44768	297.73414	5.91715	0.1603660	0.21838551	2.7309904	21	5 27.5	19.1
91435 1999 RX_6	14.8	X	358.01017	290.03211	163.92522	11.06984	0.0825662	0.19249533	2.9706803	21	—	—
91436 1999 RY_6	15.4	X	88.52347	182.87309	163.75611	11.23006	0.0664490	0.19141896	2.9818062	21	—	—
91437 1999 RB_9	14.9	X	157.22756	310.32722	348.93563	6.24188	0.0909130	0.19508524	2.9443297	21	—	—
91438 1999 RA_{12}	14.5	X	170.71297	77.61854	332.49156	23.83247	0.1228946	0.20987172	2.8043579	21	4 7.0	19.3
91439 1999 RD_{12}	15.3	X	255.52815	177.91371	165.81795	15.58212	0.2435509	0.21309784	2.7759823	21	4 14.5	20.0
91440 1999 RK_{12}	14.7	X	285.77713	126.32521	217.19842	3.19370	0.0575663	0.21690685	2.7433878	21	6 7.8	18.3

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
91441 1999 RU_{14}	14.2	X	86.76048	5.58193	339.88610	9.43225	0.1002824	0.19149133	2.9810549	21	—	—
91442 1999 RD_{17}	15.4	X	257.40514	104.30628	203.01989	6.91959	0.2231470	0.20953756	2.8073385	21	2 28.6	20.1
91443 1999 RH_{17}	15.0	X	210.03172	139.23229	289.70282	3.52796	0.0501308	0.21653485	2.7465290	21	6 26.2	18.8
91444 1999 RS_{17}	16.0	X	128.01703	48.32586	293.04906	1.35030	0.2782393	0.19569582	2.9382022	21	1 4.3	20.5
91445 1999 RC_{19}	14.2	X	294.19631	287.23629	158.70623	7.02185	0.2229104	0.18144361	3.0901170	21	10 9.9	17.9
91446 1999 RD_{19}	14.7	X	40.82082	248.24714	346.20840	12.99659	0.1137916	0.21868408	2.7285040	21	7 10.8	18.2
91447 1999 RH_{19}	14.7	X	217.27949	42.19276	342.50906	12.05674	0.1489097	0.21168765	2.7882970	21	4 28.2	19.4
91448 1999 RY_{21}	14.3	X	348.72591	109.23752	8.59352	10.53026	0.1112866	0.23831465	2.5765321	21	—	—
91449 1999 RQ_{24}	14.4	X	16.33562	83.55144	6.07392	9.79043	0.0785468	0.19292923	2.9662246	21	—	—
91450 1999 RV_{24}	15.9	X	180.82456	136.94503	178.63703	26.48863	0.1067036	0.37994240	1.8879517	21	—	—
91451 1999 RG_{38}	15.1	X	120.58586	309.87525	16.44454	4.62802	0.1981247	0.19192526	2.9765599	21	—	—
91452 1999 RL_{43}	14.7	X	12.37898	210.72776	234.50660	8.34298	0.0575225	0.19177053	2.9781607	21	—	—
91453 1999 RA_{49}	15.0	X	268.48655	219.86493	145.86324	13.95119	0.1875566	0.21806118	2.7336977	21	5 30.4	19.3
91454 1999 RK_{49}	15.1	X	344.13678	333.15101	335.56857	12.27655	0.1773579	0.22240695	2.6979702	21	7 12.8	17.9
91455 1999 RV_{49}	14.4	X	263.92213	119.41771	319.36092	12.57796	0.1501459	0.22569096	2.6717343	21	8 29.4	18.1
91456 1999 RK_{58}	13.7	X	144.24557	124.80796	324.02399	7.23495	0.1340052	0.21133046	2.7914380	21	5 10.0	18.1
91457 1999 RL_{65}	15.5	X	261.87888	53.35711	244.95771	3.24645	0.0869764	0.20893585	2.8127259	21	3 6.5	19.8
91458 1999 RX_{66}	14.9	X	87.12473	347.19462	45.09270	2.80323	0.1211820	0.19664410	2.9287486	21	—	—
91459 1999 RE_{69}	15.0	X	267.62924	28.57219	355.99448	14.89882	0.1158461	0.21865258	2.7287661	21	7 1.9	19.1
91460 1999 RK_{71}	15.2	X	280.69703	328.19895	17.66260	3.33173	0.0499397	0.21604864	2.7506481	21	6 4.6	19.0
91461 1999 RQ_{71}	15.7	X	229.43959	203.01806	139.67919	5.14513	0.1141921	0.20925956	2.8098244	21	3 28.1	20.0
91462 1999 RL_{72}	14.8	X	241.44242	21.94190	11.26539	7.94148	0.1117951	0.21601999	2.7508912	21	6 9.4	19.0
91463 1999 RZ_{75}	15.1	X	108.02831	147.56771	188.97440	10.17944	0.1142616	0.19257944	2.9698152	21	—	—
91464 1999 RZ_{77}	15.0	X	186.02760	276.50373	13.23459	7.56091	0.0532576	0.19823664	2.9130421	21	—	—
91465 1999 RE_{80}	15.6	X	142.13885	183.64124	181.59469	17.65253	0.1234001	0.19989218	2.8969356	21	1 25.5	20.2
91466 1999 RU_{81}	15.0	X	214.76336	214.39183	186.48500	7.96742	0.2262727	0.21193550	2.7861227	21	5 19.3	19.8
91467 1999 RQ_{83}	14.8	X	21.79576	197.13209	12.67407	12.47486	0.1387456	0.21223054	2.7835399	21	4 27.3	17.8
91468 1999 RH_{87}	15.3	X	207.06012	76.52573	330.50840	2.89886	0.1921466	0.21152900	2.7896910	21	5 19.3	19.9
91469 1999 RW_{87}	14.2	X	217.06137	204.66936	46.07667	2.65273	0.0563735	0.19538766	2.9412908	21	—	—
91470 1999 RX_{87}	14.7	X	213.18934	37.22602	8.89833	4.35805	0.0704363	0.21316254	2.7754205	21	5 28.9	18.8
91471 1999 RJ_{89}	14.2	X	298.84865	99.63260	0.43106	9.57324	0.0646050	0.18497029	3.0507133	21	11 19.9	18.4
91472 1999 RY_{91}	14.7	X	63.44200	93.62511	181.71085	12.44600	0.1332137	0.18011692	3.1052724	21	10 4.5	18.9
91473 1999 RJ_{95}	14.9	X	98.77786	239.19790	170.11593	2.80296	0.0964346	0.19799815	2.9153809	21	1 26.8	18.7
91474 1999 RO_{95}	15.2	X	246.80468	185.93554	144.94953	5.29314	0.2086989	0.20923930	2.8100058	21	3 23.9	19.8
91475 1999 RH_{96}	15.0	X	34.02119	179.53008	158.65396	7.92194	0.2872681	0.18322971	3.0700029	21	12 6.7	19.1
91476 1999 RA_{97}	15.5	X	199.12307	198.81017	194.85913	6.50787	0.1334502	0.20970485	2.8058454	21	4 28.6	19.9
91477 1999 RJ_{97}	14.9	X	343.91183	94.91222	349.37860	8.12368	0.0855672	0.18855405	3.0119341	21	—	—
91478 1999 RO_{99}	15.1	X	229.37486	174.13367	226.28267	8.07001	0.3252558	0.21529902	2.7570291	21	5 24.2	20.2
91479 1999 RL_{107}	14.2	X	322.54771	147.25043	199.91991	9.38413	0.0919630	0.17334004	3.1856896	21	7 28.5	18.4
91480 1999 RP_{107}	14.0	X	278.02285	190.07509	248.75337	10.31820	0.0450199	0.18044562	3.1015128	21	9 26.7	18.5
91481 1999 RV_{108}	15.4	X	221.61071	170.01776	259.55320	4.75754	0.0383389	0.21770402	2.7366867	21	7 11.7	19.3
91482 1999 RP_{110}	14.2	X	10.80970	124.60553	313.66658	9.77983	0.1069974	0.18884540	3.0088355	21	—	—
91483 1999 RS_{110}	14.6	X	161.32620	101.78098	221.49869	15.55811	0.2228839	0.19660360	2.9291509	21	1 4.6	19.7
91484 1999 RL_{112}	14.3	X	334.71521	28.88174	318.83732	24.74423	0.1855440	0.22452157	2.6810032	21	8 16.1	16.7
91485 1999 RF_{115}	15.3	X	268.92922	238.98884	150.72762	10.25716	0.2368920	0.21867544	2.7285760	21	6 21.9	19.5
91486 1999 RS_{117}	15.0	X	271.88796	135.58935	210.77416	12.37684	0.1978963	0.21626731	2.7487936	21	5 5.6	19.2
91487 1999 RT_{117}	13.8	X	340.56111	71.85393	282.30603	13.56940	0.1285070	0.22541703	2.6738984	21	9 3.4	17.0
91488 1999 RL_{119}	14.3	X	286.45289	65.06348	313.75474	14.07154	0.2337099	0.22036523	2.7146093	21	6 30.6	18.1
91489 1999 RL_{121}	15.4	X	73.58289	119.08565	206.49467	9.04964	0.1014788	0.18815167	3.0162268	21	12 12.6	19.9
91490 1999 RX_{123}	14.8	X	342.94660	74.23019	169.02335	9.07085	0.0438167	0.21107764	2.7936665	21	4 18.9	18.4
91491 1999 RA_{124}	14.8	X	262.98156	66.05512	279.16260	6.15098	0.2273020	0.21333836	2.7738954	21	4 18.8	19.3
91492 1999 RY_{132}	14.6	X	241.24401	214.34095	196.04402	9.17820	0.1665916	0.21794573	2.7346630	21	6 26.3	18.9
91493 1999 RE_{134}	14.4	X	326.75065	113.84904	316.48305	13.54069	0.0977592	0.23177847	2.6247463	21	12 3.9	17.6
91494 1999 RS_{135}	14.1	X	51.04650	108.59023	346.86793	13.92783	0.1638735	0.24513909	2.5284886	21	1 9.1	16.7
91495 1999 RZ_{138}	14.7	X	276.39134	164.40286	211.25999	9.53054	0.2627063	0.21833638	2.7314001	21	6 8.4	18.8
91496 1999 RT_{141}	14.6	X	19.65091	324.29979	317.89382	13.84641	0.0707575	0.22184155	2.7025524	21	8 5.9	17.7
91497 1999 RF_{142}	14.9	X	88.63473	220.42893	119.17491	0.43045	0.0749325	0.18985573	2.9981516	21	—	—
91498 1999 RG_{142}	14.6	X	296.83253	248.88880	11.81668	2.18133	0.0284974	0.20631710	2.8364767	21	3 11.4	18.4
91499 1999 RX_{144}	14.5	X	175.60711	230.38032	241.86766	7.37377	0.2387367	0.21649082	2.7469013	21	7 11.8	19.4
91500 1999 RA_{147}	15.0	X	159.42754	159.40662	192.11082	11.92240	0.0679895	0.20168700	2.8797234	21	1 21.8	19.4
91501 1999 RW_{147}	15.8	X	228.95436	182.88066	193.59652	7.92313	0.2305903	0.21237807	2.7822507	21	4 30.7	20.5
91502 1999 RP_{150}	14.2	X	346.46636	348.34140	346.49938	13.74649	0.1832653	0.22369267	2.6876222	21	8 27.6	16.6
91503 1999 RR_{150}	15.1	X	265.59701	235.00039	147.20918	9.72843	0.2163015	0.21765861	2.7370673	21	6 11.9	19.4
91504 1999 RZ_{153}	14.9	X	41.92256	320.62225	323.43934	10.85664	0.0611348	0.22415240	2.6839461	21	9 6.9	18.4
91505 1999 RA_{158}	14.1	X	335.08813	54.03864	356.84638	13.22285	0.1710087	0.22914234	2.6448384	21	11 19.2	17.0
91506 1999 RC_{160}	15.0	X	279.53453	9.49731	1.89758	14.01496	0.2276940	0.21826416	2.7320025	21	6 8.8	19.2
91507 1999 RM_{160}	14.3	X	147.25654	119.63224	0.01506	15.19710	0.2745871	0.21332540	2.7740078	21	7 3.5	19.5
91508 1999 RZ_{160}	15.3	X	170.95672	201.19710	163.36161	2.33862	0.0977690	0.20272180	2.8699153	21	2 23.3	19.7
91509 1999 RY_{161}	15.3	X	210.81366	121.10383	215.45338	6.95810	0.0598264	0.20632212	2.8364308	21	2 27.1	19.6
91510 1999 RA_{162}	15.9	X	224.74251	239.77905	180.32849	8.59339	0.2910416	0.21488611	2.7605598	21	6 15.4	20.9
91511 1999 RJ_{163}	14.0	X	20.27491	80.79108	330.19647	10.10320	0.0681458	0.19038735	2.9925677	21	—	—
91512 1999 RL_{165}	14.5	X	327.62140	118.17866	338.54755	13.27376	0.2357241	0.23227294	2.6210198	21	—	—
91513 1999 RG_{166}	15.0	X	215.27870	255.44008	157.35443	13.08171	0.1570419	0.21437068	2.7649830	21	6 6.9	19.7
91514 1999 RJ_{166}	14.8	X	201.35394	214.92611	112.59460	3.20229	0.0720133	0.20400150	2.8579008	21	2 9.6	19.0
91515 1999 RR_{169}	14.9	X	217.35364	112.16135	275.23691	3.29376	0.0854946	0.21213413	2.7843833	21	5 8.9	19.0
91516 1999 RD_{174}	15.0	X	252.67549	343.30856	15.88435	6.53961	0.0325005	0.21383958	2.7695592	21	5 18.2	18.8
91517 1999 RO_{175}	15.2	X	267.18152	64.55399	342.12811	5.46171	0.1049194	0.21978925	2.7193498	21	8 1.1	18.9
91518 1999 RJ_{177}	13.8	X	71.98218	331.79531	354.43978	11.63457	0.0644953	0.18687263	3.0299741	21	12 4.3	18.3
91519 1999 RT_{180}	15.2	X	272.85101	5.42842	8.05371	13.69876	0.1664297	0.21719926	2.7409250	21	6 12.7	19.4
91520 1999 RK_{183}	14.2	X	13.58330	349.48303	133.33162	2.92186	0.0189010	0.19829301	2.9124900	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
91521 1999 RY_{183}	14.9	X	63.59297	16.79108	73.00251	3.35256	0.0845972	0.19966635	2.8991196	21	1 28.2	18.4
91522 1999 RJ_{185}	14.1	X	302.46782	110.84171	6.93541	22.27524	0.0676229	0.23395166	2.6084667	21	—	—
91523 1999 RM_{185}	15.2	X	252.79483	59.33071	280.77916	1.47160	0.0868643	0.21195178	2.7859801	21	4 18.2	19.2
91524 1999 RN_{187}	14.6	X	279.17559	344.51113	21.22489	5.80476	0.0977157	0.21762065	2.7373856	21	6 22.4	18.4
91525 1999 RA_{189}	14.7	X	97.99742	165.91510	164.05241	10.73652	0.0869487	0.19041029	2.9923274	21	—	—
91526 1999 RF_{189}	15.7	X	171.77356	3.94922	346.63095	9.97370	0.1962056	0.20171150	2.8794903	21	2 15.7	20.4
91527 1999 RT_{189}	14.8	X	152.35606	329.76380	58.95664	5.79541	0.1119899	0.20368750	2.8608371	21	3 9.4	19.1
91528 1999 RV_{191}	14.3	X	30.78805	199.24399	354.47608	25.31036	0.0759057	0.21192324	2.7862302	21	4 9.9	18.1
91529 1999 RL_{193}	15.4	X	29.83151	148.59038	180.03071	11.55907	0.0943883	0.18070701	3.0985087	21	10 22.0	19.5
91530 1999 RG_{194}	15.1	X	198.88705	113.85083	202.05914	6.68294	0.3101953	0.20268477	2.8702648	21	1 26.9	20.5
91531 1999 RH_{195}	14.9	X	140.46939	98.53877	224.83784	11.71655	0.1876917	0.19653909	2.9297918	21	—	—
91532 1999 RC_{196}	14.3	X	42.59582	335.34621	300.10212	12.74360	0.2063747	0.22456265	2.6806762	21	9 14.4	17.7
91533 1999 RY_{199}	14.0	X	205.95894	275.56661	284.42891	14.24410	0.0776728	0.23276474	2.6173266	21	12 6.6	17.8
91534 1999 RC_{200}	14.4	X	33.61434	178.43645	252.53170	12.14307	0.0849421	0.19337561	2.9616581	21	—	—
91535 1999 RD_{200}	14.3	X	308.64372	215.26008	286.69076	12.73359	0.1120781	0.23701232	2.5859618	21	—	—
91536 1999 RK_{201}	14.2	X	351.53908	171.02671	247.91511	9.34031	0.0751547	0.18616446	3.0376533	21	12 16.6	18.1
91537 1999 RG_{203}	14.0	X	359.94928	196.68767	245.52099	8.67209	0.0483568	0.19118351	2.9842538	21	—	—
91538 1999 RA_{204}	13.9	X	312.65148	112.13264	347.16541	28.08125	0.2315379	0.22907906	2.6453255	21	12 12.6	17.0
91539 1999 RP_{204}	14.5	X	110.44732	93.30142	255.05372	9.55190	0.1226690	0.19294760	2.9660363	21	—	—
91540 1999 RH_{205}	14.8	X	285.55512	76.59241	308.40343	12.68188	0.2513961	0.21832970	2.7314558	21	7 4.7	18.6
91541 1999 RG_{206}	15.0	X	321.00168	20.25714	291.37026	8.34739	0.1473512	0.21606175	2.7505368	21	6 1.8	18.3
91542 1999 RC_{207}	14.2	X	321.68230	171.42218	243.43113	11.87989	0.1433871	0.18000820	3.1065226	21	10 21.2	18.0
91543 1999 RJ_{207}	14.1	X	50.51917	138.08366	256.87138	9.09289	0.0485502	0.19031321	2.9933449	21	—	—
91544 1999 RM_{207}	14.9	X	18.72311	180.96145	248.04001	8.70170	0.0272501	0.19069308	2.9893683	21	—	—
91545 1999 RT_{209}	13.8	X	134.63590	26.49787	268.98333	8.95407	0.0843259	0.18917538	3.0053356	21	—	—
91546 1999 RV_{209}	14.2	X	93.39737	56.52814	322.56427	9.88530	0.1088292	0.19317699	2.9636878	21	—	—
91547 1999 RZ_{209}	14.3	X	44.67059	8.16392	342.12143	10.53206	0.1250818	0.18431315	3.0579603	21	12 9.5	18.7
91548 1999 RN_{210}	14.6	X	259.83896	58.14643	339.35707	12.11441	0.1643852	0.21585739	2.7522726	21	7 2.7	18.8
91549 1999 RU_{210}	14.4	X	88.78704	248.94361	236.66256	14.36908	0.2040890	0.20339108	2.8636160	21	5 5.7	18.4
91550 1999 RW_{210}	14.3	X	317.68966	99.15236	315.29357	9.90970	0.0996805	0.17933657	3.1142739	21	10 14.4	18.4
91551 1999 RA_{212}	13.9	X	290.77576	159.21443	328.73230	10.09484	0.1357843	0.18441201	3.0568673	21	12 7.2	17.9
91552 1999 RG_{213}	16.0	X	201.91450	307.30436	0.76761	0.99491	0.1618288	0.20149989	2.8815059	21	1 19.9	20.7
91553 Claudedoom	15.9	X	195.06457	146.75500	205.45280	1.44758	0.0962816	0.20493445	2.8492206	21	3 4.1	20.3
91554 1999 RZ_{215}	7.8	X	7.65523	335.91975	341.56693	25.44739	0.7026520	0.00092691	104.1782225	21	9 27.2	23.6
91555 1999 RE_{219}	15.1	X	95.33687	231.15704	226.60327	1.14362	0.0352091	0.20614961	2.8380129	21	3 13.9	19.0
91556 1999 RT_{220}	15.1	X	247.66471	177.72318	199.46611	12.22875	0.2093228	0.21444208	2.7643692	21	5 19.5	19.6
91557 1999 RW_{222}	15.1	X	251.24643	134.78060	240.80810	8.04583	0.1751107	0.21475252	2.7617045	21	5 22.9	19.4
91558 1999 RL_{226}	14.9	X	155.60897	352.31108	307.42992	5.10158	0.0609331	0.19441869	2.9510555	21	—	—
91559 1999 RM_{226}	15.5	X	177.45821	70.79275	350.62990	8.63787	0.1274131	0.21045794	2.7991479	21	5 8.1	20.0
91560 1999 RW_{226}	14.8	X	40.72165	114.43965	299.18537	11.84377	0.1812092	0.19175429	2.9783289	21	—	—
91561 1999 RK_{230}	15.0	X	299.55486	334.40880	354.61009	11.76539	0.1122854	0.21799530	2.7342484	21	5 26.2	18.8
91562 1999 RM_{231}	14.1	X	193.43822	77.26862	35.39539	12.07417	0.1238503	0.21998079	2.7177711	21	8 4.7	18.6
91563 1999 RJ_{235}	15.2	X	23.12880	228.08155	144.25775	9.87162	0.1426348	0.18468316	3.0538745	21	12 12.7	19.2
91564 1999 RN_{235}	14.7	X	62.84029	21.57610	43.47160	2.33118	0.0071096	0.19679644	2.9272370	21	—	—
91565 1999 RK_{237}	14.5	X	116.69609	276.32087	54.54708	10.28268	0.0916159	0.19200965	2.9756876	21	—	—
91566 1999 RQ_{237}	14.2	X	355.55510	289.00912	117.31609	10.96988	0.1000872	0.18439874	3.0570139	21	12 9.7	18.1
91567 1999 RU_{239}	14.2	X	90.96508	213.67257	153.01413	8.42360	0.0570474	0.19220633	2.9736573	21	—	—
91568 1999 RD_{241}	14.5	X	304.68003	351.54012	54.30695	11.57894	0.2085672	0.17632364	3.1496504	21	9 10.5	18.5
91569 1999 RX_{248}	15.2	X	116.46979	318.12385	185.26258	8.98831	0.1003718	0.21397348	2.7684037	21	6 17.6	19.3
91570 1999 RN_{249}	14.8	X	195.64255	330.27137	188.15528	9.54773	0.0384737	0.18012997	3.1051224	21	9 30.9	19.4
91571 1999 RZ_{252}	14.2	X	316.65312	208.69093	222.86552	10.20220	0.0122994	0.18394576	3.0620307	21	11 14.9	18.3
91572 1999 RF_{253}	14.4	X	199.75581	326.26854	305.39728	6.05729	0.0593026	0.19509245	2.9442572	21	—	—
91573 1999 SN_{2}	16.5	X	245.11179	153.21010	183.83109	5.41664	0.0180974	0.20943575	2.8082483	21	4 14.2	20.4
91574 1999 SV_{2}	14.5	X	75.06552	43.46978	10.21355	9.24713	0.0571280	0.19288533	2.9666746	21	—	—
91575 1999 SS_{6}	14.1	X	52.07207	309.14168	101.70705	12.05054	0.0932011	0.19313804	2.9640863	21	—	—
91576 1999 SL_{7}	14.6	X	340.70095	338.48080	2.85348	15.35403	0.2323900	0.22384018	2.6864412	21	8 26.5	16.9
91577 1999 SU_{8}	13.5	X	18.76412	49.33264	38.79659	16.30205	0.1378876	0.23975535	2.5662001	21	—	—
91578 1999 SK_{14}	15.2	X	121.01430	332.20583	52.30348	2.80397	0.0894989	0.19809060	2.9144737	21	1 24.4	19.3
91579 1999 SQ_{15}	14.3	X	24.04912	186.35661	254.71244	8.76664	0.0547659	0.19222459	2.9734691	21	—	—
91580 1999 SS_{15}	14.8	X	39.20145	165.35653	232.01385	8.65193	0.1114705	0.18854948	3.0119828	21	—	—
91581 1999 SW_{15}	14.6	X	11.35662	99.16538	294.79656	7.99668	0.0887322	0.18493332	3.0511199	21	12 14.9	18.5
91582 1999 SF_{19}	14.6	X	330.54991	319.44617	106.31801	9.82321	0.2181554	0.18209699	3.0827209	21	11 24.4	17.7
91583 1999 SK_{20}	15.0	X	57.07175	233.13654	133.66019	12.22669	0.1986659	0.18724061	3.0260029	21	—	—
91584 1999 SQ_{20}	14.6	X	300.83588	247.37908	61.59747	15.98602	0.2549591	0.21368740	2.7708740	21	4 18.9	18.5
91585 1999 SR_{20}	14.7	X	233.70116	320.82927	106.39008	10.43472	0.1539846	0.21565953	2.7539557	21	7 11.9	18.9
91586 1999 SS_{23}	15.5	X	119.28154	115.18483	169.68028	1.80139	0.1448691	0.18910925	3.0060362	21	12 14.2	20.2
91587 1999 SD_{24}	14.7	X	184.10256	278.17931	337.42650	10.33350	0.0647117	0.19232803	2.9724028	21	—	—
91588 1999 TJ	15.5	X	342.31335	46.73904	85.25363	2.22063	0.0679363	0.19278762	2.9676770	21	—	—
91589 1999 TF_{1}	14.8	X	347.50694	208.48580	222.91163	2.79709	0.2420767	0.18397836	3.0616689	21	—	—
91590 1999 TA_{3}	13.4	X	77.24937	81.92895	296.54998	8.75250	0.1099079	0.18927044	3.0043292	21	—	—
91591 1999 TJ_{3}	15.0	X	153.99963	210.52847	23.76012	4.65557	0.1863603	0.18584571	3.0411256	21	11 15.2	20.1
91592 1999 TU_{3}	13.8	X	340.05787	121.57198	15.69113	9.98795	0.0560881	0.19314779	2.9639865	21	—	—
91593 1999 TF_{7}	14.7	X	32.26881	324.30362	54.21068	3.95248	0.1284571	0.18473626	3.0532893	21	12 29.7	18.8
91594 1999 TN_{8}	14.8	X	20.53985	238.16730	171.44514	3.98729	0.1378109	0.18649301	3.0340845	21	—	—
91595 1999 TZ_{9}	15.2	X	190.58625	19.35724	53.96987	3.47596	0.1994867	0.21048497	2.7989082	21	6 7.2	19.8
91596 1999 TF_{11}	14.5	X	312.24446	154.76949	220.04041	16.59530	0.2116052	0.17410905	3.1763022	21	7 30.1	18.7
91597 1999 TB_{13}	14.5	X	314.88777	71.10707	291.88912	7.92162	0.2217169	0.21865422	2.7287524	21	7 24.1	17.4
91598 1999 TK_{13}	14.3	X	31.85873	290.21256	85.82104	7.07019	0.2291103	0.18317728	3.0705887	21	—	—
91599 1999 TQ_{13}	14.7	X	13.83344	123.04050	261.93339	2.26677	0.1498363	0.18330094	3.0692076	21	12 14.2	18.3
91600 1999 TN_{16}	15.5	X	36.93833	135.50219	325.62451	0.89557	0.0912893	0.19526475	2.9425250	21	1 3.1	19.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
91601 1999 TA_{17}	15.1	X	57.39693	277.49867	142.73798	2.53297	0.1964687	0.19176423	2.9782260	21	—	—
91602 1999 TM_{17}	13.3	X	308.30238	16.86352	91.80640	11.97515	0.0790350	0.18486016	3.0519248	21	12 15.9	17.1
91603 1999 TA_{19}	14.2	X	340.42365	358.84978	35.96967	16.85842	0.0393293	0.17967648	3.1103450	21	10 29.8	18.4
91604 Clausmadsen	14.4	X	256.67586	80.74614	81.32634	11.07465	0.0231022	0.18643702	3.0346920	21	12 19.3	18.6
91605 1999 TC_{20}	13.9	X	89.82483	195.28175	133.06091	4.62157	0.0737504	0.18640309	3.0350602	21	12 29.8	18.4
91606 1999 TE_{20}	14.8	X	26.47161	202.62195	183.37988	10.85713	0.1215950	0.18461071	3.0546735	21	12 29.4	19.0
91607 Delaboudiniere	15.0	X	82.49451	10.09259	21.76621	2.48574	0.1140487	0.19308788	2.9645996	21	—	—
91608 1999 TW_{21}	15.0	X	312.36258	65.54042	23.34433	5.82562	0.1611438	0.18323368	3.0699586	21	11 19.3	18.6
91609 1999 TX_{21}	14.7	X	183.91696	96.90413	22.35545	7.19832	0.1252393	0.21617872	2.7495445	21	8 1.3	19.1
91610 1999 TP_{26}	14.2	X	55.11938	115.98408	217.09655	9.39901	0.0759846	0.18202231	3.0835640	21	11 25.9	18.5
91611 1999 TN_{27}	14.2	X	269.66987	236.35658	223.38713	4.46089	0.1430858	0.17617471	3.1514252	21	9 30.7	18.6
91612 1999 TJ_{30}	15.4	X	72.41466	115.49752	201.43960	8.47762	0.1369463	0.18495311	3.0509022	21	12 5.2	19.9
91613 1999 TO_{31}	13.8	X	229.41678	165.91902	353.03973	4.21576	0.0701043	0.18238771	3.0794441	21	11 4.7	18.2
91614 1999 TF_{32}	14.3	X	335.66347	35.43443	15.75977	10.64056	0.0447487	0.18183467	3.0856850	21	11 10.4	18.6
91615 1999 TZ_{32}	14.8	X	75.43638	84.97990	257.18430	1.75462	0.0116491	0.18698593	3.0287501	21	12 22.7	18.9
91616 1999 TR_{33}	15.1	X	87.61511	182.36015	206.35635	9.93288	0.1379365	0.19309847	2.9644911	21	—	—
91617 1999 TW_{36}	13.5	X	165.96034	7.27593	358.86667	10.65254	0.1185548	0.19963751	2.8993988	21	2 24.8	18.1
91618 1999 TB_{38}	14.6	X	309.29479	352.95034	73.50723	3.05331	0.1708013	0.17939568	3.1135898	21	10 16.1	18.1
91619 1999 TJ_{38}	15.1	X	266.06242	130.14492	188.18158	5.37494	0.0241722	0.20846918	2.8169219	21	4 15.7	19.1
91620 1999 TA_{39}	14.3	X	177.43517	302.36096	247.96918	10.68473	0.0336505	0.18091355	3.0961499	21	10 16.5	18.9
91621 1999 TK_{39}	15.0	X	85.37158	204.32359	154.35586	9.34774	0.1124089	0.18839739	3.0136036	21	—	—
91622 1999 TJ_{40}	15.1	X	241.46037	311.65520	48.26841	4.17811	0.1067393	0.21089299	2.7952970	21	4 29.8	19.2
91623 1999 TL_{41}	15.9	X	232.59026	93.35171	10.82033	0.95294	0.1156342	0.17113735	3.2129664	21	8 28.9	20.7
91624 1999 TP_{44}	14.5	X	202.54502	249.56373	222.28454	7.44233	0.0081240	0.17180768	3.2046038	21	8 10.6	19.2
91625 1999 TS_{53}	14.8	X	153.13714	278.72163	324.84979	2.48328	0.0702170	0.18400581	3.0613644	21	11 24.9	19.4
91626 1999 TJ_{55}	15.1	X	86.93976	100.85658	205.89647	14.18140	0.1248388	0.18418868	3.0593377	21	12 6.8	19.9
91627 1999 TW_{55}	14.5	X	293.56766	110.02165	22.00150	3.98515	0.1652370	0.18482021	3.0523646	21	12 14.0	18.1
91628 1999 TC_{58}	14.1	X	92.23857	36.36718	218.04600	21.66905	0.0563423	0.17451965	3.1713183	21	9 27.7	18.9
91629 1999 TR_{58}	15.8	X	6.79812	152.02593	152.05151	2.73680	0.1937721	0.17226221	3.1989641	21	8 18.7	19.1
91630 1999 TQ_{59}	15.4	X	216.48981	42.33438	188.48413	10.85444	0.0500891	0.19319601	2.9634933	21	—	—
91631 1999 TF_{65}	15.1	X	185.20780	275.09415	343.77730	1.24406	0.0956597	0.19357840	2.9595893	21	—	—
91632 1999 TB_{68}	14.7	X	83.62980	168.56192	93.98664	2.47232	0.1313707	0.17519749	3.1631331	21	10 12.1	19.4
91633 1999 TM_{71}	14.3	X	185.65382	264.13995	207.77658	8.72023	0.0145723	0.16935593	3.2354581	21	7 21.1	19.1
91634 1999 TJ_{75}	14.9	X	45.94112	301.33977	85.15494	2.81042	0.1337069	0.18802198	3.0176136	21	—	—
91635 1999 TH_{79}	14.7	X	262.45894	109.62657	19.34157	12.54584	0.2164210	0.22638890	2.6662403	21	10 23.8	18.1
91636 1999 TY_{79}	14.9	X	6.06783	231.32257	184.20085	9.33828	0.0824294	0.18658119	3.0331285	21	—	—
91637 1999 TJ_{81}	15.2	X	86.25165	146.05746	194.29879	10.44882	0.0835067	0.19010992	2.9954785	21	—	—
91638 1999 TQ_{82}	14.8	X	34.52153	320.36821	25.72600	6.39136	0.2091735	0.18319628	3.0703764	21	12 3.2	18.8
91639 1999 TE_{85}	15.2	X	38.66976	284.80144	339.22669	10.87690	0.2086942	0.22491488	2.6778768	21	8 30.9	18.2
91640 1999 TA_{87}	15.8	X	111.11956	312.09892	340.53769	1.75811	0.0937781	0.18791443	3.0187649	21	12 11.9	20.5
91641 1999 TS_{90}	14.0	X	50.45132	72.01172	26.72712	16.77177	0.0683241	0.19845051	2.9109488	21	1 24.1	18.1
91642 1999 TE_{91}	13.9	X	234.73947	56.25896	60.75071	4.42024	0.1820836	0.17589282	3.1547914	21	9 11.1	18.8
91643 1999 TX_{91}	13.7	X	193.97531	201.58188	48.00484	11.76210	0.0603663	0.19164345	2.9794772	21	—	—
91644 1999 TP_{92}	14.9	X	111.37669	249.90670	138.23522	2.70155	0.0874625	0.19687729	2.9264356	21	1 16.1	18.7
91645 1999 TE_{93}	14.8	X	134.56927	270.06647	54.49248	10.63063	0.0592643	0.19288888	2.9666382	21	—	—
91646 1999 TB_{95}	15.2	X	116.08888	312.48979	108.20895	7.61063	0.1849320	0.20041265	2.8919179	21	3 19.0	19.5
91647 1999 TG_{96}	13.6	X	36.98170	337.66448	43.82821	9.72783	0.0561646	0.18666053	3.0322689	21	12 29.7	17.9
91648 1999 TE_{97}	14.9	X	130.26578	222.57846	135.71449	11.31473	0.1525173	0.19583046	2.9368553	21	1 11.1	19.2
91649 1999 TE_{99}	14.2	X	348.05143	297.98811	85.15326	8.04211	0.1148773	0.17984630	3.1083867	21	10 30.8	18.0
91650 1999 TR_{100}	14.3	X	342.61673	17.49547	76.72802	10.15811	0.1095331	0.18794901	3.0183946	21	—	—
91651 1999 TU_{100}	13.9	X	354.79543	153.60064	180.88683	21.52539	0.0368509	0.17472637	3.1688164	21	8 31.5	18.4
91652 1999 TZ_{100}	13.2	X	191.20447	77.34453	49.44440	17.37778	0.0810622	0.17125545	3.2114890	21	8 23.9	18.4
91653 1999 TG_{101}	14.3	X	60.46438	335.36638	70.61786	12.01651	0.1164313	0.19121917	2.9838828	21	—	—
91654 1999 TJ_{101}	14.1	X	98.82928	268.59028	91.06285	11.19647	0.1185963	0.19126776	2.9833775	21	—	—
91655 1999 TJ_{103}	15.4	X	217.80965	79.32709	310.55790	4.79475	0.1437514	0.21024566	2.8010317	21	5 8.9	19.9
91656 1999 TS_{103}	14.0	X	94.99994	16.03370	359.32394	10.21956	0.1041729	0.19271669	2.9684051	21	—	—
91657 1999 TN_{104}	14.8	X	0.39716	112.63482	231.03213	6.98758	0.0736610	0.17741693	3.1366978	21	9 21.1	19.0
91658 1999 TX_{104}	14.2	X	219.11953	223.74264	7.53076	11.22668	0.0353078	0.19019123	2.9946246	21	—	—
91659 1999 TP_{105}	14.8	X	308.36025	45.16875	24.02839	18.15459	0.1632159	0.17766540	3.1337725	21	10 17.4	18.4
91660 1999 TY_{105}	14.5	X	0.03361	153.47900	224.00916	14.90977	0.1327821	0.17968189	3.1102825	21	11 10.2	18.2
91661 1999 TG_{106}	14.8	X	351.98547	168.06464	271.94892	12.68149	0.2454801	0.23424860	2.6062618	21	—	—
91662 1999 TL_{106}	14.7	X	266.12477	135.01706	265.89194	10.39505	0.0600932	0.22071676	2.7117263	21	7 25.8	18.4
91663 1999 TO_{107}	14.2	X	28.22355	103.56164	312.61312	10.53099	0.0539741	0.19179084	2.9779505	21	—	—
91664 1999 TP_{107}	14.7	X	301.64485	334.65634	277.07119	6.73153	0.1664568	0.20860263	2.8157204	21	2 11.5	18.8
91665 1999 TC_{109}	14.5	X	321.34305	182.30787	241.75037	13.57215	0.1405212	0.18308067	3.0716689	21	11 3.8	18.1
91666 1999 TF_{111}	15.1	X	204.84849	162.17035	241.87982	8.48940	0.0948096	0.21115928	2.7929464	21	5 16.9	19.2
91667 1999 TU_{111}	14.3	X	145.06037	85.12073	197.49564	10.69596	0.0740587	0.19023012	2.9942165	21	—	—
91668 1999 TD_{112}	14.6	X	44.69580	93.93449	201.31644	9.53109	0.0858328	0.17901053	3.1180542	21	9 25.8	18.7
91669 1999 TL_{112}	14.1	X	195.43119	264.78204	216.50185	5.82968	0.0837759	0.17239099	3.1973708	21	8 10.8	19.1
91670 1999 TM_{112}	15.4	X	186.37257	199.01054	235.05783	3.33115	0.1864649	0.21097383	2.7945829	21	6 4.9	20.2
91671 1999 TL_{114}	15.1	X	170.32976	285.57245	18.64178	1.91330	0.0874105	0.19545164	2.9406489	21	—	—
91672 1999 TV_{114}	14.4	X	331.17525	175.92163	359.32619	13.57365	0.1244991	0.24289461	2.5440412	21	—	—
91673 1999 TY_{114}	14.2	X	318.02847	192.09506	209.81956	10.29590	0.0398122	0.17951538	3.1122056	21	10 7.3	18.4
91674 1999 TZ_{114}	14.2	X	97.22952	47.08933	349.06954	11.59793	0.0655454	0.19626708	2.9324981	21	1 7.4	18.3
91675 1999 TA_{115}	14.0	X	325.40487	149.07483	340.94321	9.51908	0.0551764	0.19138663	2.9821420	21	—	—
91676 1999 TM_{115}	14.8	X	125.31540	112.58439	211.13227	10.83360	0.1413791	0.19222126	2.9735034	21	—	—
91677 1999 TU_{115}	14.5	X	14.47359	163.04860	208.39375	9.36553	0.1163851	0.18285881	3.0741528	21	11 24.8	18.4
91678 1999 TB_{117}	14.3	X	347.85012	301.76130	3.86594	12.64180	0.0866517	0.17239158	3.1973635	21	7 19.8	18.6
91679 1999 TM_{119}	14.6	X	152.45891	263.60548	14.02156	9.76393	0.1189520	0.19001586	2.9964669	21	—	—
91680 1999 TX_{119}	14.9	X	18.58601	171.44155	246.04914	4.54414	0.1571480	0.18764706	3.0216317	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
91681 1999 TF_{120}	14.2	X	307.18908	104.16079	343.42837	6.72571	0.2366125	0.18089462	3.0963660	21	10 28.3	17.6
91682 1999 TV_{123}	14.6	X	21.28161	351.52727	22.57020	13.04245	0.0641063	0.18295869	3.0730339	21	11 27.7	18.9
91683 1999 TZ_{123}	14.6	X	40.34261	217.97029	194.85560	8.47379	0.0815333	0.18967190	3.0000884	21	—	—
91684 1999 TN_{126}	15.0	X	125.99836	143.56426	249.02557	4.14352	0.1205662	0.19877852	2.9077456	21	2 10.6	19.2
91685 1999 TT_{126}	14.8	X	60.66298	341.43629	355.13530	6.24170	0.1043057	0.18458752	3.0549293	21	12 9.8	19.3
91686 1999 TU_{126}	14.8	X	105.88581	94.82069	214.53395	11.33303	0.1563913	0.18803046	3.0175229	21	12 29.5	19.8
91687 1999 TA_{127}	15.0	X	203.05235	220.38089	90.11304	3.35035	0.1174462	0.19981438	2.8976875	21	1 23.5	19.6
91688 1999 TH_{127}	15.1	X	136.19083	298.28847	119.91249	3.16627	0.0608318	0.20306551	2.8666759	21	3 20.8	19.1
91689 1999 TJ_{127}	15.2	X	331.63612	196.27617	177.79679	5.37720	0.1939410	0.17647071	3.1479002	21	9 12.6	18.7
91690 1999 TV_{127}	15.1	X	70.22812	124.82832	178.25186	0.88845	0.1576172	0.18305324	3.0719757	21	11 18.3	19.6
91691 1999 TG_{129}	14.9	X	97.93852	30.29264	352.91432	4.72353	0.1160292	0.19539896	2.9411774	21	—	—
91692 1999 TZ_{129}	14.1	X	315.60330	277.57781	190.03782	11.41827	0.0829453	0.18768541	3.0212202	21	12 25.0	18.1
91693 1999 TN_{130}	14.4	X	346.99243	113.89957	358.83401	10.93781	0.0670515	0.19227603	2.9729387	21	—	—
91694 1999 TH_{132}	15.3	X	206.71766	355.27501	341.19333	1.34923	0.0678149	0.20359771	2.8616782	21	2 25.5	19.4
91695 1999 TL_{136}	14.7	X	281.73790	242.27575	223.22326	3.93847	0.1232881	0.18073048	3.0982404	21	10 28.6	18.7
91696 1999 TO_{136}	15.0	X	326.83001	96.87233	5.36028	5.15091	0.1919489	0.18538014	3.0462152	21	—	—
91697 1999 TO_{137}	14.6	X	288.15607	223.93040	192.55290	12.74466	0.0339868	0.17758902	3.1346711	21	9 15.8	18.9
91698 1999 TK_{138}	14.7	X	235.88161	338.97266	307.23915	1.04326	0.0601534	0.19959972	2.8997648	21	1 27.9	18.8
91699 1999 TU_{138}	15.0	X	81.11492	15.52440	18.09391	10.28518	0.0541071	0.19258826	2.9697246	21	—	—
91700 1999 TY_{139}	15.4	X	53.22569	4.39043	23.35606	10.77563	0.0585972	0.18781504	3.0198298	21	—	—
91701 1999 TS_{142}	15.1	X	208.81081	126.33954	272.13536	1.98217	0.2112227	0.21061068	2.7977944	21	5 10.3	19.8
91702 1999 TX_{142}	14.7	X	57.64585	329.76516	349.87235	9.05913	0.0176674	0.18278447	3.0749863	21	10 31.7	19.2
91703 1999 TS_{143}	14.5	X	55.28637	282.86710	357.73241	15.77155	0.2206110	0.18026637	3.1035559	21	10 8.9	18.9
91704 1999 TQ_{145}	14.7	X	228.57182	160.33816	156.14382	2.52318	0.0778748	0.20402563	2.8576754	21	2 23.9	19.1
91705 1999 TR_{145}	14.2	X	192.63508	94.26943	22.00813	5.02691	0.0911449	0.17101414	3.2145094	21	8 5.3	19.1
91706 1999 TV_{145}	15.2	X	134.65925	281.98992	135.66334	2.88892	0.0590594	0.20358643	2.8617838	21	3 17.6	19.1
91707 1999 TH_{146}	15.0	X	161.55049	20.55855	264.76084	2.00153	0.0401410	0.19100493	2.9861137	21	—	—
91708 1999 TF_{147}	14.5	X	244.33904	162.72497	99.94171	3.33651	0.0463408	0.19849383	2.9105252	21	1 9.9	18.7
91709 1999 TG_{148}	15.0	X	86.23461	297.09270	26.88651	1.33396	0.0751129	0.18681219	3.0306276	21	12 21.0	19.5
91710 1999 TZ_{149}	14.2	X	321.12778	196.46865	181.06236	15.19996	0.0155480	0.17588096	3.1549332	21	9 11.9	18.7
91711 1999 TP_{150}	14.2	X	140.80735	304.74896	223.30094	10.10702	0.1511828	0.16991489	3.2283585	21	8 13.1	19.6
91712 1999 TW_{150}	14.3	X	220.14486	16.31540	183.92648	11.89244	0.0522880	0.18654764	3.0334922	21	12 18.0	18.9
91713 1999 TD_{152}	14.9	X	312.37111	49.32936	41.31946	14.24765	0.1780551	0.18170049	3.0872040	21	11 19.1	18.4
91714 1999 TW_{153}	14.2	X	212.27991	352.81374	54.02455	7.51775	0.1240362	0.21089980	2.7952368	21	5 26.7	18.4
91715 1999 TA_{154}	14.1	X	268.64995	244.35275	246.90403	7.09913	0.1197673	0.18192747	3.0846355	21	11 12.3	18.1
91716 1999 TG_{154}	15.3	X	107.03575	19.68891	43.66978	13.08412	0.1419187	0.19865727	2.9089287	21	3 9.5	19.6
91717 1999 TL_{155}	14.2	X	137.69895	260.97330	14.51165	8.88295	0.0828568	0.18535550	3.0464852	21	12 17.0	19.0
91718 1999 TX_{155}	14.5	X	28.84725	289.96160	88.27301	6.04685	0.1270709	0.18344898	3.0675561	21	12 24.2	18.4
91719 1999 TD_{156}	14.6	X	106.97714	175.26529	204.26601	15.14491	0.1263233	0.19298787	2.9656237	21	1 4.3	18.9
91720 1999 TJ_{156}	13.7	X	246.66461	25.93368	86.44073	6.42267	0.1152054	0.17456436	3.1707768	21	9 27.0	18.4
91721 1999 TQ_{157}	14.0	X	181.98652	278.07209	238.87410	24.48675	0.1723284	0.17330529	3.1861154	21	8 30.4	19.8
91722 1999 TW_{157}	14.1	X	45.74325	12.39124	71.89849	11.70633	0.0671401	0.19165739	2.9793327	21	—	—
91723 1999 TD_{158}	15.1	X	53.31092	257.84942	72.05526	3.88305	0.2019160	0.18353503	3.0665973	21	12 6.9	19.4
91724 1999 TK_{158}	14.1	X	63.59367	268.46882	33.40184	25.84567	0.2579889	0.18070794	3.0984980	21	11 15.8	18.9
91725 1999 TM_{158}	15.0	X	9.49919	183.98818	175.24885	15.47404	0.1436420	0.22964477	2.6409794	21	11 16.7	18.2
91726 1999 TE_{159}	14.5	X	118.57421	35.91548	219.45660	4.39413	0.1381398	0.18506134	3.0497126	21	11 8.5	19.3
91727 1999 TH_{162}	15.0	X	43.92486	241.22542	171.66031	8.34597	0.1009338	0.18961746	3.0006626	21	—	—
91728 1999 TM_{162}	14.6	X	308.06839	242.90137	180.62506	9.97702	0.0807892	0.17861377	3.1226700	21	10 19.9	18.7
91729 1999 TG_{163}	14.9	X	135.51235	115.66340	183.10359	10.12083	0.0987222	0.18887733	3.0084964	21	—	—
91730 1999 TP_{163}	14.4	X	13.43607	90.56305	40.10062	13.79709	0.1060003	0.19509105	2.9442712	21	1 4.6	18.2
91731 1999 TJ_{164}	14.5	X	161.70002	330.61111	220.48814	10.58252	0.0277771	0.17762853	3.1342062	21	9 29.6	19.2
91732 1999 TK_{164}	14.5	X	267.50247	339.57455	348.32932	11.70221	0.0279125	0.20937176	2.8088204	21	4 23.7	18.6
91733 1999 TO_{164}	14.6	X	63.65849	71.11674	7.43569	10.79865	0.0116443	0.19633844	2.9317875	21	1 10.5	18.8
91734 1999 TM_{166}	14.1	X	291.37282	199.54760	240.33928	9.89696	0.0557713	0.18005575	3.1059757	21	10 16.3	18.4
91735 1999 TM_{171}	15.9	X	112.83670	95.18167	215.66447	0.80936	0.2556099	0.18891181	3.0081302	21	—	—
91736 1999 TN_{172}	14.5	X	69.28277	94.18197	248.33326	7.73984	0.0807432	0.18551104	3.0447821	21	12 24.3	18.8
91737 1999 TW_{172}	14.8	X	18.82094	65.21395	239.90956	8.19934	0.0685358	0.17426206	3.1744427	21	8 27.5	19.1
91738 1999 TE_{174}	13.6	X	168.24734	10.82045	53.15718	16.54178	0.0062369	0.16018486	3.3578019	21	5 4.5	18.4
91739 1999 TA_{175}	13.8	X	263.40776	182.34470	19.58336	12.94574	0.1415757	0.19070579	2.9892355	21	—	—
91740 1999 TX_{177}	14.9	X	338.36535	202.55580	188.92814	4.74494	0.1142164	0.17738157	3.1371147	21	10 22.8	18.8
91741 1999 TL_{178}	15.4	X	9.88065	156.74750	293.21868	4.61114	0.1198471	0.18952685	3.0016189	21	—	—
91742 1999 TE_{179}	14.8	X	198.50140	342.00862	245.80671	3.17408	0.1666841	0.18743024	3.0239616	21	12 16.6	19.6
91743 1999 TA_{180}	15.4	X	140.15409	245.30450	56.40362	1.77646	0.1174850	0.18920340	3.0050388	21	—	—
91744 1999 TD_{183}	14.6	X	44.04346	273.08427	39.46195	10.99094	0.1028212	0.17948083	3.1126050	21	10 21.8	18.8
91745 1999 TF_{184}	14.0	X	157.19806	317.60645	291.92416	14.32992	0.0789331	0.18636181	3.0355083	21	12 6.8	18.8
91746 1999 TL_{185}	13.7	X	316.60997	154.17708	346.98283	13.44194	0.2274987	0.18835878	3.0140154	21	—	—
91747 1999 TT_{185}	14.1	X	208.36765	252.34671	258.37034	15.36658	0.0923431	0.17767994	3.1336016	21	9 24.2	19.1
91748 1999 TA_{186}	13.9	X	241.70411	235.09973	278.33089	12.43648	0.1197997	0.18246723	3.0785494	21	11 3.9	18.5
91749 1999 TV_{186}	15.1	X	28.78064	82.78297	295.59014	8.32317	0.0430721	0.18428058	3.0583205	21	12 13.3	19.3
91750 1999 TR_{187}	14.2	X	233.18927	164.11835	313.54133	11.36045	0.0870039	0.22098593	2.7095238	21	9 17.2	18.2
91751 1999 TX_{188}	15.3	X	338.45800	68.15631	352.30663	14.64059	0.1738343	0.18132541	3.0914598	21	11 26.2	19.0
91752 1999 TB_{189}	14.5	X	17.35620	117.27079	317.58626	11.31409	0.0573833	0.18874252	3.0099287	21	—	—
91753 1999 TN_{189}	14.5	X	343.41186	86.14063	320.64007	8.60248	0.0748134	0.18120312	3.0928506	21	11 16.0	18.6
91754 1999 TO_{189}	14.3	X	10.23140	12.36104	347.91700	11.90973	0.0740435	0.17934905	3.1141295	21	10 24.8	18.5
91755 1999 TQ_{189}	15.2	X	35.25964	106.83531	333.80207	9.56058	0.0780713	0.19148761	2.9810935	21	—	—
91756 1999 TT_{189}	14.3	X	6.95721	185.68260	270.95570	10.25944	0.0594117	0.19002518	2.9963689	21	—	—
91757 1999 TN_{190}	15.1	X	189.94055	89.74910	299.30097	11.64441	0.2278685	0.20616141	2.8379046	21	4 8.8	20.3
91758 1999 TR_{190}	14.6	X	230.39015	43.15472	254.39770	13.51016	0.2071689	0.20228837	2.8740133	21	1 26.1	19.7
91759 1999 TU_{191}	14.5	X	340.77943	160.03122	295.66496	8.17399	0.0598101	0.18636407	3.0354839	21	—	—
91760 1999 TX_{191}	14.7	X	38.20692	48.34628	320.61430	9.06064	0.0683126	0.18352931	3.0666609	21	12 17.1	19.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
91761 1999 TZ_{191}	14.6	X	353.73396	77.10356	325.59989	10.44797	0.0544751	0.18184918	3.0855208	21	11 25.2	18.9
91762 1999 TH_{192}	14.7	X	301.89347	140.45375	321.19663	8.07818	0.1034996	0.18170967	3.0871000	21	11 22.8	18.7
91763 1999 TN_{192}	14.6	X	117.66267	29.45946	359.33336	11.67284	0.0936280	0.19574616	2.9376985	21	1 29.7	18.8
91764 1999 TV_{193}	14.8	X	168.79225	356.17616	235.75554	7.89995	0.0663373	0.18253204	3.0778206	21	11 27.9	19.4
91765 1999 TE_{194}	14.7	X	211.96911	264.30150	274.55286	9.52465	0.0043343	0.18078571	3.0976093	21	11 15.9	19.1
91766 1999 TK_{194}	14.6	X	310.37579	156.27656	319.44766	8.79870	0.0525556	0.18462466	3.0545195	21	12 29.5	18.7
91767 1999 TH_{196}	14.8	X	327.07157	147.13574	276.66849	8.55834	0.0978236	0.17985600	3.1082749	21	11 13.7	18.7
91768 1999 TQ_{196}	14.6	X	45.92378	62.44480	1.98813	9.94231	0.1143056	0.18974152	2.9993545	21	—	—
91769 1999 TS_{198}	14.7	X	307.67903	70.42543	23.74023	11.21110	0.0963180	0.17962957	3.1108864	21	11 21.6	18.8
91770 1999 TE_{200}	14.9	X	75.89535	59.66659	346.00664	10.80322	0.1345846	0.19206837	2.9750811	21	—	—
91771 1999 TW_{202}	15.1	X	225.31825	350.97957	213.10276	9.15346	0.0273008	0.18809024	3.0168835	21	12 30.9	19.5
91772 1999 TD_{203}	15.3	X	9.47281	188.62480	275.20130	2.22484	0.1746112	0.19178725	2.9779876	21	—	—
91773 1999 TL_{203}	14.7	X	135.70789	221.34310	10.97532	9.08019	0.0649147	0.17959012	3.1113420	21	10 22.7	19.5
91774 1999 TT_{203}	15.0	X	123.67837	284.98989	343.76020	6.10793	0.1965137	0.18732961	3.0250444	21	11 30.3	20.2
91775 1999 TH_{206}	14.7	X	307.25276	3.51969	31.21100	9.40933	0.1114978	0.17216748	3.2001374	21	9 10.3	18.9
91776 1999 TJ_{206}	13.0	X	112.63757	194.16118	52.15984	29.92933	0.1419430	0.17475123	3.1685159	21	10 30.0	18.1
91777 1999 TM_{206}	13.3	X	62.82317	265.94115	41.37215	11.46712	0.0869034	0.17664935	3.1457776	21	11 4.2	17.6
91778 1999 TG_{208}	14.0	X	148.20895	186.69759	323.73746	17.96563	0.0701034	0.16843711	3.2472136	21	8 1.2	18.9
91779 1999 TL_{208}	14.1	X	321.91726	81.58755	348.73206	15.89191	0.0915222	0.18065285	3.0991280	21	11 9.5	18.4
91780 1999 TH_{211}	14.8	X	47.59798	239.57676	147.33721	5.15596	0.0834585	0.19077011	2.9885636	21	—	—
91781 1999 TR_{212}	14.7	X	85.28437	315.91885	213.06570	15.99707	0.1555086	0.20944684	2.8081491	21	6 19.3	18.8
91782 1999 TO_{214}	15.2	X	111.98705	219.71377	90.93954	1.67684	0.1374517	0.18802098	3.0176244	21	—	—
91783 1999 TQ_{216}	15.2	X	100.67172	268.92222	122.62060	3.10141	0.1164514	0.19450633	2.9501690	21	1 11.4	19.1
91784 1999 TV_{216}	15.1	X	106.78355	25.40854	304.21295	1.88082	0.1723076	0.18861523	3.0112828	21	—	—
91785 1999 TU_{217}	14.8	X	359.82340	213.15106	203.49410	9.75242	0.0666218	0.18334287	3.0687395	21	12 23.7	18.9
91786 1999 TB_{219}	14.8	X	104.20504	308.34775	10.36686	9.73673	0.0942541	0.18635299	3.0356041	21	—	—
91787 1999 TZ_{219}	13.7	X	25.04253	256.17511	345.58261	12.45343	0.1090379	0.16876178	3.2430475	21	6 22.0	18.0
91788 1999 TG_{221}	14.7	X	339.09515	73.42447	3.20183	12.13549	0.0701997	0.18469854	3.0537050	21	12 19.9	18.9
91789 1999 TH_{221}	14.9	X	269.10554	322.97375	49.02605	10.00961	0.1714919	0.21519058	2.7579552	21	6 6.1	18.9
91790 1999 TF_{222}	14.1	X	273.57536	215.93271	225.00363	8.35559	0.0597647	0.17875991	3.1209679	21	9 23.1	18.4
91791 1999 TD_{223}	14.4	X	127.71998	76.71028	241.16219	8.49196	0.0595383	0.19205417	2.9752277	21	—	—
91792 1999 TM_{223}	14.8	X	58.80856	323.90076	63.80754	6.59917	0.0873423	0.19052480	2.9911282	21	—	—
91793 1999 TR_{227}	14.9	X	129.38251	80.57817	225.76564	8.08257	0.0780608	0.18947633	3.0021524	21	—	—
91794 1999 TG_{228}	15.1	X	26.14194	189.09880	187.25080	15.02816	0.1683811	0.18239711	3.0793384	21	12 23.3	19.4
91795 1999 TP_{228}	14.7	X	69.25517	282.63346	22.29580	9.93305	0.0357881	0.18247549	3.0784565	21	11 1.3	19.1
91796 1999 TE_{230}	14.2	X	178.11909	153.40626	159.43035	12.46466	0.0461486	0.19627546	2.9324146	21	—	—
91797 1999 TF_{233}	14.4	X	219.71528	26.55209	281.47200	14.16197	0.1301252	0.20399657	2.8579467	21	1 31.3	19.1
91798 1999 TT_{233}	15.2	X	211.72068	180.86681	256.76112	8.09566	0.1290872	0.21506342	2.7590422	21	7 3.8	19.6
91799 1999 TE_{234}	14.6	X	13.11537	58.25623	336.81054	12.28295	0.1094944	0.18493022	3.0511540	21	12 21.7	18.8
91800 1999 TK_{234}	14.3	X	166.91264	273.21349	224.82917	10.47544	0.0598398	0.17101857	3.2144539	21	7 30.7	19.3
91801 1999 TC_{235}	14.8	X	161.82409	49.76728	190.34501	8.64244	0.0295406	0.18451572	3.0557217	21	12 2.2	19.3
91802 1999 TH_{235}	14.8	X	110.21371	256.93392	54.67062	3.89727	0.1432883	0.18819737	3.0157385	21	—	—
91803 1999 TZ_{235}	14.7	X	49.88166	260.25173	82.06987	7.09411	0.0887932	0.18344382	3.0676136	21	12 2.5	18.8
91804 1999 TX_{237}	15.6	X	10.48558	349.47632	172.25900	2.03015	0.0101467	0.20164120	2.8801595	21	2 11.4	19.5
91805 1999 TB_{241}	14.9	X	14.70708	346.30681	50.36952	10.44506	0.1114335	0.18402618	3.0611384	21	12 25.0	18.9
91806 1999 TJ_{244}	14.6	X	176.40001	351.84786	186.97450	18.20745	0.1457045	0.18001327	3.1064643	21	10 1.5	19.7
91807 1999 TU_{245}	14.3	X	348.00290	277.54271	88.08877	11.25180	0.1224927	0.17677720	3.1442607	21	10 10.7	18.2
91808 1999 TH_{247}	14.8	X	28.52099	164.42281	201.50888	18.22744	0.1351774	0.18158974	3.0884591	21	12 9.5	19.1
91809 1999 TG_{248}	14.5	X	358.71695	235.41140	186.20795	9.60129	0.0813861	0.18327846	3.0694585	21	12 29.4	18.6
91810 1999 TQ_{249}	14.6	X	196.36049	297.13151	290.95089	7.49229	0.0590437	0.18888223	3.0084443	21	12 24.2	18.9
91811 1999 TL_{252}	13.9	X	322.17186	309.53435	82.49378	12.47812	0.1287422	0.17632480	3.1496367	21	10 2.3	17.9
91812 1999 TQ_{252}	15.1	X	166.25070	111.64306	317.18953	2.85597	0.1451525	0.20923759	2.8100210	21	5 9.3	19.6
91813 1999 TL_{254}	14.0	X	80.44276	242.94840	128.25832	12.10843	0.1095106	0.19008762	2.9957127	21	—	—
91814 1999 TV_{261}	14.8	X	241.24194	302.29837	219.09075	12.27468	0.1146089	0.18266259	3.0763540	21	11 17.4	19.2
91815 1999 TO_{265}	14.6	X	77.41052	229.11063	243.43119	15.93128	0.0437811	0.20450988	2.8531626	21	3 3.5	18.8
91816 1999 TA_{267}	14.4	X	292.01633	203.62768	302.67678	9.32651	0.0609112	0.18983030	2.9984193	21	—	—
91817 1999 TG_{267}	14.9	X	197.52271	149.61545	321.11009	10.12354	0.0743714	0.21741405	2.7391195	21	8 4.8	18.8
91818 1999 TU_{267}	14.5	X	334.85083	56.58122	261.16526	12.94621	0.1864872	0.21866821	2.7286361	21	7 1.2	17.3
91819 1999 TB_{268}	14.6	X	99.77893	128.08638	257.94855	9.73515	0.1314801	0.19512083	2.9439717	21	1 4.5	18.6
91820 1999 TT_{268}	14.8	X	203.96852	90.19748	255.25796	11.27775	0.0406404	0.20397734	2.8581264	21	2 27.6	19.2
91821 1999 TN_{277}	14.5	X	338.79754	302.37792	102.74197	10.56827	0.0936334	0.18203348	3.0834379	21	11 13.8	18.4
91822 1999 TU_{277}	14.9	X	200.96613	304.71939	216.12362	4.70657	0.1326137	0.17781495	3.1320152	21	10 2.1	19.9
91823 1999 TJ_{280}	14.9	X	113.64980	154.24662	147.36262	2.17206	0.1559210	0.18741641	3.0241104	21	12 28.5	19.8
91824 1999 TU_{280}	14.7	X	7.64002	33.56982	24.24809	9.54139	0.1135361	0.18786363	3.0193091	21	—	—
91825 1999 TM_{281}	14.3	X	303.25658	308.49687	104.64647	11.54935	0.1392129	0.17680854	3.1438891	21	9 26.8	18.4
91826 1999 TP_{281}	13.9	X	232.23866	338.93919	108.72090	15.46606	0.0706932	0.17114689	3.2128470	21	8 14.9	18.7
91827 1999 TK_{282}	14.9	X	99.95617	147.66926	150.30380	1.50729	0.1358832	0.18570553	3.0426558	21	12 10.4	19.7
91828 1999 TU_{282}	15.4	X	62.09407	45.76899	19.49619	1.89385	0.0717034	0.19467992	2.9484150	21	—	—
91829 1999 TE_{284}	14.6	X	286.87429	350.68727	128.16693	6.55643	0.1093029	0.18183780	3.0856496	21	11 25.5	18.6
91830 1999 TF_{297}	14.8	X	318.22517	98.31119	105.53247	2.92302	0.1014621	0.19998437	2.8960453	21	1 17.0	18.5
91831 1999 TX_{298}	16.1	X	236.42150	98.61196	221.32439	1.25096	0.0574517	0.20658019	2.8340680	21	3 8.9	20.1
91832 1999 TS_{300}	14.9	X	327.81688	176.40134	273.21381	8.41267	0.0583797	0.18602663	3.0391535	21	12 20.7	18.9
91833 1999 TW_{304}	15.5	X	121.61793	114.56033	319.29695	1.76238	0.1263866	0.20430041	2.8551125	21	3 29.3	19.5
91834 1999 TU_{308}	15.6	X	167.58217	201.80846	159.73380	2.42398	0.1055672	0.20542691	2.8446652	21	2 16.4	19.8
91835 1999 TV_{310}	15.3	X	65.72863	131.96981	203.92325	3.38559	0.0306910	0.18392921	3.0622143	21	12 5.9	19.6
91836 1999 TA_{311}	14.6	X	271.53560	333.48227	161.85383	7.85814	0.0025142	0.18587632	3.0407917	21	12 8.8	19.0
91837 1999 TB_{311}	14.7	X	191.07779	206.81963	92.50107	3.31197	0.0706337	0.19717281	2.9235107	21	—	—
91838 1999 TF_{314}	15.0	X	341.43606	243.84329	129.56236	10.90999	0.2355891	0.17725723	3.1385815	21	10 7.3	18.2
91839 1999 TX_{314}	14.4	X	41.53399	253.90496	77.76766	15.36702	0.0991617	0.17865140	3.1222314	21	11 12.9	18.7
91840 1999 TZ_{318}	15.7	X	57.35502	171.38305	134.34267	0.62338	0.1911148	0.18093909	3.0958586	21	11 11.0	20.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
91841 1999 TA_{321}	15.0	X	3.69121	167.39584	211.83991	8.76442	0.1871373	0.17885859	3.1198199	21	11 24.3	18.5
91842 1999 TP_{322}	14.3	X	320.51954	205.74960	173.48071	24.07878	0.1634579	0.17469025	3.1692532	21	8 30.8	18.2
91843 1999 UF_1	14.3	X	302.77401	46.28343	32.96343	16.97862	0.1993228	0.17802224	3.1295835	21	10 18.4	17.9
91844 1999 UR_2	14.3	X	107.39717	35.01512	249.57165	7.43423	0.0436577	0.18161887	3.0881287	21	11 23.4	18.7
91845 1999 UT_2	14.5	X	289.47380	89.67743	40.05762	11.34596	0.1036458	0.18328935	3.0693369	21	12 10.6	18.6
91846 1999 UY_3	15.8	X	161.71186	132.09767	195.51435	16.94784	0.1468400	0.19643923	2.9307846	21	1 4.5	20.7
91847 1999 UW_5	14.2	X	281.78244	72.00462	7.12436	11.34853	0.0635874	0.17640751	3.1486520	21	10 3.1	18.3
91848 1999 UG_6	15.0	X	80.72967	25.68274	30.25093	2.14529	0.1075918	0.19511969	2.9439831	21	1 13.5	18.8
91849 1999 UK_6	13.1	X	326.99445	336.67876	38.36574	7.06575	0.0786715	0.17444938	3.1721699	21	9 16.9	17.2
91850 1999 UN_7	14.7	X	250.87862	237.33839	207.93192	8.67223	0.0475590	0.17461067	3.1702160	21	9 1.3	19.4
91851 1999 UA_8	14.8	X	311.71760	202.81961	227.23210	15.77276	0.1451137	0.17793856	3.1305646	21	10 24.9	18.5
91852 1999 UD_8	14.9	X	133.46602	119.05463	259.60659	0.91967	0.1065102	0.19611732	2.9339908	21	2 2.3	19.2
91853 1999 UK_8	14.2	X	36.94126	320.08816	36.05394	9.47748	0.0550521	0.18098812	3.0952995	21	11 26.1	18.5
91854 1999 UA_9	14.8	X	93.43976	289.67307	53.17505	12.13618	0.0960502	0.18679632	3.0307993	21	—	—
91855 1999 UD_{11}	14.3	X	54.52990	20.29923	324.66683	20.67783	0.1299048	0.18123827	3.0924506	21	12 17.4	19.0
91856 1999 UB_{13}	14.9	X	265.53360	159.46886	209.32227	15.50778	0.1341579	0.21484530	2.7609093	21	6 4.2	19.1
91857 1999 UR_{13}	13.9	X	220.33518	274.01440	206.26638	15.54808	0.2076670	0.17326669	3.1865886	21	8 23.6	19.4
91858 1999 US_{16}	14.1	X	315.77057	212.38786	227.62200	11.67625	0.1262461	0.18070913	3.0984845	21	11 17.1	17.8
91859 1999 UX_{17}	15.2	X	127.18318	284.88827	64.86996	2.81376	0.0393389	0.19433915	2.9518606	21	—	—
91860 1999 UL_{18}	15.4	X	124.55501	298.31380	85.43424	2.85185	0.1171512	0.19770269	2.9182847	21	1 31.4	19.5
91861 1999 UT_{18}	14.6	X	48.26338	269.93976	44.21845	7.93010	0.0128558	0.17967326	3.1103822	21	10 17.3	18.9
91862 1999 US_{20}	15.6	X	23.33252	333.02759	95.02978	2.13142	0.1357516	0.18954166	3.0014625	21	—	—
91863 1999 UV_{23}	14.1	X	259.94551	149.60507	352.49238	10.58402	0.1299758	0.22764884	2.6563935	21	11 18.1	17.7
91864 1999 UW_{24}	13.3	X	272.98965	153.70723	3.65152	10.91132	0.1152853	0.18570628	3.0426476	21	12 22.1	17.5
91865 1999 UD_{25}	13.7	X	21.40430	271.46447	16.15641	17.51936	0.1065429	0.17260747	3.1946969	21	8 24.5	18.0
91866 1999 UD_{27}	14.9	X	53.72332	221.38149	355.41404	12.62507	0.0730007	0.21608893	2.7503061	21	6 28.9	18.7
91867 1999 UC_{30}	15.8	X	323.95299	46.84814	49.81804	2.75748	0.0414102	0.18661378	3.0327754	21	12 24.4	19.7
91868 1999 UF_{36}	14.9	X	247.36842	218.24195	191.40087	13.63973	0.0429201	0.21831281	2.7315966	21	7 15.4	18.9
91869 1999 UU_{38}	13.6	X	214.17372	105.66073	8.10313	13.86791	0.0715932	0.17255533	3.1953404	21	8 29.7	18.5
91870 1999 UA_{39}	14.4	X	231.53474	325.51075	0.61474	9.36890	0.1400879	0.20516197	2.8471137	21	3 8.8	18.8
91871 1999 UT_{39}	14.7	X	5.96375	13.85624	32.47311	10.76099	0.0620796	0.18539563	3.0460455	21	12 19.2	18.9
91872 1999 UL_{41}	14.8	X	244.53620	297.07753	225.63689	9.07009	0.0858731	0.18396966	3.0617654	21	11 26.7	19.1
91873 1999 UM_{42}	14.2	X	330.51673	34.13248	3.50780	21.72514	0.0941252	0.17874486	3.1211430	21	10 12.6	18.3
91874 1999 UW_{43}	14.5	X	171.21865	327.11231	323.35388	4.59952	0.0866064	0.19100393	2.9861241	21	—	—
91875 1999 UF_{44}	13.8	X	322.92486	307.64969	28.38941	22.30928	0.0284175	0.16907010	3.2391036	21	7 31.5	18.7
91876 1999 UO_{44}	14.2	X	319.40097	56.76510	55.41455	10.70315	0.1806555	0.18544820	3.0454698	21	—	—
91877 1999 UK_{45}	14.4	X	98.65068	217.79669	305.00413	10.06502	0.1221965	0.21062440	2.7976728	21	6 25.1	18.3
91878 1999 UV_{45}	14.2	X	245.40411	75.16250	357.53498	10.39265	0.0538296	0.17056003	3.2202126	21	8 14.9	18.9
91879 1999 UZ_{45}	14.9	X	324.61983	86.53676	312.56317	7.77859	0.0718672	0.17746407	3.1361423	21	10 7.9	19.1
91880 1999 UC_{46}	14.2	X	180.46650	233.35659	11.09261	10.26278	0.0869531	0.18618215	3.0374608	21	12 23.9	19.0
91881 1999 UR_{46}	14.5	X	119.17045	261.15762	85.82076	12.07886	0.0471533	0.19219224	2.9738027	21	—	—
91882 1999 UT_{48}	14.9	X	243.81549	145.02811	237.25578	15.97333	0.1558002	0.21306604	2.7762584	21	5 25.9	19.3
91883 1999 UG_{49}	14.9	X	305.71502	117.94649	277.87936	4.17612	0.1329436	0.17416047	3.1756771	21	8 31.5	19.0
91884 1999 UH_{49}	15.1	X	317.39442	89.66862	346.93906	4.90717	0.1419293	0.18065015	3.0991588	21	11 12.4	18.7
91885 1999 UK_{49}	14.6	X	233.49849	257.90562	240.65645	9.55706	0.0636259	0.17835457	3.1256947	21	10 15.0	19.2
91886 1999 UB_{50}	14.9	X	134.92983	208.58760	110.10760	3.82337	0.1617296	0.19069424	2.9893562	21	—	—
91887 1999 UZ_{50}	15.0	X	24.72960	263.34902	42.15860	6.01345	0.2610777	0.17769667	3.1334050	21	10 6.9	18.4
91888 Tomskilling	14.2	X	270.56945	213.57541	242.33121	11.64044	0.0952665	0.17995858	3.1070936	21	10 1.6	18.7
91889 1999 UQ_{59}	14.6	X	157.79128	330.73218	356.52049	10.39545	0.0527481	0.19338762	2.9615354	21	—	—
91890 Kiriko Matsuri	14.0	X	121.76843	282.46777	65.59184	11.66640	0.1213230	0.18950952	3.0018019	21	—	—
91891 1999 VJ_2	14.3	X	94.95633	88.33682	292.82737	8.78051	0.1224475	0.19181832	2.9776661	21	—	—
91892 1999 VB_3	15.3	X	271.22377	323.14717	105.00314	2.20724	0.1497325	0.17090258	3.2159082	21	8 24.7	19.7
91893 1999 VP_4	13.9	X	115.43371	219.56604	52.93665	11.06434	0.0724439	0.18357701	3.0661297	21	11 20.3	18.5
91894 1999 VH_5	13.4	X	220.38956	229.50636	64.59751	13.51653	0.1079456	0.19798018	2.9155572	21	1 22.6	18.1
91895 1999 VV_5	14.0	X	52.80784	344.70482	72.53743	11.38009	0.0956547	0.18847500	3.0127763	21	—	—
91896 1999 VY_9	13.9	X	72.18244	110.24352	333.77762	9.82044	0.1739186	0.19495686	2.9456221	21	2 14.6	17.5
91897 1999 VB_{10}	14.1	X	75.97703	89.64195	310.76646	9.42870	0.2380478	0.19129862	2.9830566	21	1 5.6	17.5
91898 Margnetti	14.3	X	91.30592	120.00573	261.03244	4.57547	0.1151080	0.19194069	2.9764003	21	—	—
91899 1999 VT_{11}	14.3	X	8.19216	193.17954	207.12187	10.75524	0.1106725	0.18313808	3.0710269	21	12 19.8	18.4
91900 1999 VV_{11}	14.9	X	340.20916	356.74992	38.94882	5.47152	0.1438602	0.17781365	3.1320305	21	10 30.8	18.5
91901 1999 VB_{15}	15.6	X	115.61798	300.61842	336.49450	3.08686	0.1538096	0.18759360	3.0222058	21	12 1.6	20.6
91902 1999 VU_{17}	14.5	X	116.41666	58.99489	221.31905	8.94764	0.0680756	0.18334625	3.0687018	21	12 1.0	19.2
91903 1999 VA_{19}	14.3	X	353.46883	133.58450	236.84760	25.93810	0.0935571	0.17608793	3.1524605	21	10 14.7	18.6
91904 1999 VW_{19}	14.9	X	271.45951	318.90855	114.49204	2.13626	0.1474780	0.17268139	3.1937851	21	9 1.0	19.4
91905 1999 VB_{20}	14.9	X	0.28393	344.68687	101.03816	2.26313	0.1176888	0.18629107	3.0362768	21	—	—
91906 1999 VE_{24}	14.3	X	349.00661	332.51988	50.35172	12.07501	0.1952796	0.17786269	3.1314548	21	11 2.1	17.5
91907 Shiho	14.6	X	308.57066	60.69194	63.00344	12.82716	0.2335986	0.18346448	3.0673834	21	12 22.4	17.7
91908 1999 VK_{27}	13.4	X	357.10802	4.17610	8.22671	7.99524	0.1078217	0.17924569	3.1153265	21	10 26.0	17.2
91909 1999 VZ_{28}	14.8	X	176.43842	301.52591	44.50957	2.55648	0.1114532	0.19708459	2.9243831	21	2 9.6	19.3
91910 1999 VD_{29}	15.1	X	32.88107	323.13033	40.29688	1.25756	0.1664896	0.18128796	3.0918855	21	12 16.6	19.1
91911 1999 VQ_{29}	14.5	X	274.73661	290.56365	238.35241	5.48760	0.0653934	0.18508515	3.0494510	21	—	—
91912 1999 VC_{30}	14.5	X	306.62941	71.54070	70.67971	2.18673	0.1827892	0.18435712	3.0574740	21	—	—
91913 1999 VD_{30}	14.6	X	4.92226	307.55245	59.41375	6.05538	0.1500903	0.17768704	3.1335181	21	11 6.4	18.2
91914 1999 VD_{31}	15.0	X	334.68107	321.30490	80.08157	0.90527	0.1937791	0.17666358	3.1456087	21	10 27.4	18.2
91915 1999 VF_{31}	14.7	X	294.32330	334.17898	60.07817	9.31358	0.1688833	0.17053128	3.2205745	21	8 12.5	19.1
91916 1999 VL_{31}	15.1	X	21.37307	231.13723	188.06379	1.46258	0.1583308	0.18493960	3.0510508	21	—	—
91917 1999 VT_{31}	15.5	X	37.12883	158.78494	247.33978	1.77084	0.1472234	0.18627330	3.0364699	21	—	—
91918 1999 VS_{32}	15.0	X	234.62195	232.01393	224.26342	0.22589	0.1434565	0.16832170	3.2486977	21	8 17.9	19.9
91919 1999 VE_{33}	14.4	X	126.45006	3.29578	40.94648	3.90821	0.1273734	0.19692180	2.9259945	21	3 1.9	18.6
91920 1999 VF_{33}	14.7	X	334.50685	8.39279	51.74531	9.39425	0.0457247	0.17924216	3.1153674	21	11 21.7	18.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
91921 1999 VN_{33}	14.9	X	17.47758	346.87843	60.92771	4.96655	0.1059061	0.18341117	3.0679777	21	—	—
91922 1999 VP_{37}	14.1	X	26.09098	106.76475	232.63407	5.11505	0.1794134	0.17644054	3.1482590	21	11 7.7	18.0
91923 1999 VE_{38}	14.5	X	319.24136	129.52153	219.71905	9.16706	0.2094807	0.17292609	3.1907715	21	7 11.8	18.4
91924 1999 VL_{38}	14.6	X	121.86984	114.14245	217.28505	10.04127	0.0515839	0.18995884	2.9970665	21	—	—
91925 1999 VM_{38}	14.8	X	35.67711	329.37996	36.70680	1.83983	0.1437813	0.18347701	3.0672437	21	12 20.7	19.0
91926 1999 VN_{38}	14.6	X	12.58064	267.84499	66.15286	6.17242	0.2401646	0.17603069	3.1531438	21	10 19.3	18.0
91927 1999 VA_{39}	14.3	X	56.19213	35.21712	241.76734	15.96470	0.0679439	0.17158152	3.2074191	21	9 8.9	19.1
91928 1999 VY_{47}	14.3	X	253.79614	264.84400	320.59718	9.63975	0.0540578	0.19284144	2.9671247	21	—	—
91929 1999 VO_{48}	14.4	X	43.45879	45.94892	21.41584	11.47267	0.0985392	0.19039399	2.9924982	21	—	—
91930 1999 VT_{48}	14.3	X	106.96905	94.34301	5.68558	10.11574	0.1543730	0.20087781	2.8874518	21	4 16.7	18.4
91931 1999 VK_{52}	14.3	X	56.09599	333.56531	48.56644	11.98261	0.1080882	0.18498695	3.0505301	21	—	—
91932 1999 VT_{53}	14.9	X	10.80367	9.85385	35.68669	7.11717	0.1225225	0.18421257	3.0590732	21	—	—
91933 1999 VB_{54}	13.5	X	162.76862	156.73608	36.70936	12.28455	0.1099161	0.17696170	3.1420748	21	10 9.2	18.5
91934 1999 VM_{54}	15.0	X	328.57340	5.27618	39.24285	0.67390	0.1732731	0.17794982	3.1304325	21	10 20.4	18.5
91935 1999 VE_{55}	14.8	X	45.24676	300.17194	39.99447	1.23301	0.1752961	0.18219748	3.0815873	21	12 5.7	18.9
91936 1999 VC_{57}	15.1	X	324.72691	189.89072	217.64278	11.73842	0.0841048	0.17807386	3.1289787	21	10 21.6	19.2
91937 1999 VQ_{58}	13.4	X	268.20287	16.02826	52.00398	14.25209	0.0652529	0.17157227	3.2075343	21	9 9.3	18.1
91938 1999 VB_{60}	14.7	X	343.13582	191.44794	221.48740	8.24305	0.1382721	0.18079636	3.0974877	21	11 28.4	18.3
91939 1999 VY_{60}	13.8	X	150.01069	121.84899	47.72564	16.07681	0.1693880	0.21473738	2.7618343	21	9 7.9	18.6
91940 1999 VZ_{60}	14.3	X	358.18348	325.49429	70.17117	3.16552	0.1300554	0.18096483	3.0955651	21	11 30.4	18.1
91941 1999 VR_{63}	14.1	X	99.11105	263.32294	43.71042	10.66226	0.1270397	0.18380878	3.0635517	21	12 18.1	18.9
91942 1999 VV_{63}	15.2	X	325.35824	197.29306	203.72787	0.51984	0.1738250	0.17640711	3.1486568	21	10 9.1	18.7
91943 1999 VA_{64}	13.9	X	114.79725	154.13716	47.23837	7.60574	0.0865125	0.16972103	3.2308163	21	8 29.8	18.8
91944 1999 VO_{64}	14.9	X	313.14573	315.50222	63.80798	1.81510	0.1616423	0.17278537	3.1925037	21	8 20.7	18.8
91945 1999 VU_{64}	14.6	X	297.94660	46.69365	54.74493	2.68965	0.1493165	0.18012602	3.1051678	21	11 13.2	18.2
91946 1999 VM_{65}	14.0	X	71.47791	236.03388	49.35639	17.18052	0.2057062	0.17841564	3.1249814	21	11 5.0	18.6
91947 1999 VT_{65}	14.4	X	294.28087	161.88142	217.84580	7.19563	0.1070077	0.17024483	3.2241860	21	7 27.8	18.8
91948 1999 VV_{67}	14.6	X	328.75690	12.00067	93.74847	1.81179	0.1826093	0.18381448	3.0634884	21	—	—
91949 1999 VY_{67}	14.6	X	329.23355	31.21609	58.26030	11.24290	0.0929644	0.18241473	3.0791401	21	12 20.9	18.6
91950 1999 VN_{68}	14.8	X	330.81573	345.82535	61.27837	17.06060	0.0808752	0.17719011	3.1393741	21	11 3.7	18.8
91951 1999 VS_{68}	14.7	X	305.82049	351.65682	54.73950	15.65385	0.0701685	0.17399797	3.1776540	21	10 2.0	19.1
91952 1999 VV_{70}	14.9	X	292.44705	304.41984	169.11573	1.30016	0.1217747	0.18073379	3.0982026	21	11 23.8	18.7
91953 1999 VS_{71}	15.1	X	171.12650	56.80738	211.42604	2.60128	0.0135590	0.18577021	3.0419495	21	—	—
91954 1999 VV_{76}	14.9	X	303.69700	251.10681	224.30170	11.10171	0.1271058	0.18162811	3.0880241	21	12 12.7	18.7
91955 1999 VK_{77}	14.7	X	283.42665	40.17319	16.07021	5.54044	0.1509106	0.17203729	3.2017517	21	8 26.7	19.0
91956 1999 VN_{77}	14.4	X	293.70379	280.02576	256.04235	9.28198	0.0702853	0.18879176	3.0094054	21	—	—
91957 1999 VO_{78}	14.7	X	210.89897	166.65864	335.35639	4.51008	0.1116673	0.17520231	3.1630751	21	9 20.6	19.6
91958 1999 VM_{79}	14.8	X	149.87293	319.92761	343.71554	9.78964	0.0890272	0.19121043	2.9839737	21	—	—
91959 1999 VR_{79}	14.9	X	18.64373	148.69691	242.01009	6.20070	0.0378812	0.18337438	3.0683880	21	12 14.6	19.0
91960 1999 VA_{80}	17.1	X	89.81014	62.78709	37.66534	20.55918	0.0913737	0.38169560	1.8821661	21	2 26.8	19.2
91961 1999 VH_{80}	14.9	X	299.17440	229.40850	213.48504	9.37525	0.0375011	0.17902982	3.1178302	21	11 3.9	19.0
91962 1999 VR_{85}	15.1	X	41.76521	20.53307	336.45435	1.47147	0.1206776	0.18286929	3.0740354	21	12 14.0	19.2
91963 1999 VB_{86}	15.0	X	85.78331	74.86103	341.83830	1.74429	0.0895093	0.19467750	2.9484394	21	1 19.2	18.7
91964 1999 VS_{88}	14.6	X	247.39294	261.06044	227.22466	10.86437	0.1445081	0.17713602	3.1400131	21	10 8.0	19.3
91965 1999 VM_{89}	14.2	X	111.04424	145.25236	49.76252	1.36984	0.1196368	0.16883991	3.2420470	21	8 18.2	19.0
91966 1999 VP_{91}	14.9	X	280.35338	221.36175	200.11068	7.01814	0.1464183	0.17348340	3.1839343	21	8 25.8	19.3
91967 1999 VZ_{91}	14.8	X	271.06837	105.30825	18.39442	14.61567	0.0567230	0.22900613	2.6458871	21	11 19.8	18.5
91968 1999 VA_{92}	14.5	X	306.56084	261.24544	202.14622	4.40880	0.2054261	0.18371467	3.0645978	21	11 25.4	17.7
91969 1999 VC_{92}	14.2	X	1.13494	266.53097	194.12188	9.87732	0.1467178	0.19074099	2.9888677	21	—	—
91970 1999 VK_{92}	14.9	X	171.13468	57.14163	20.84219	11.70012	0.1240961	0.20953268	2.8073822	21	5 22.8	19.5
91971 1999 VO_{92}	14.4	X	197.92585	250.76297	43.17393	2.33572	0.0761487	0.19684916	2.9267144	21	—	—
91972 1999 VW_{92}	14.4	X	31.92711	62.60873	18.28318	10.67853	0.0823112	0.19292790	2.9662382	21	—	—
91973 1999 VL_{93}	14.1	X	248.60925	307.36992	199.66380	10.77679	0.0325108	0.18334357	3.0687318	21	11 20.8	18.5
91974 1999 VG_{94}	14.7	X	110.96451	119.00780	209.03279	10.26378	0.0749820	0.18916466	3.0054492	21	—	—
91975 1999 VN_{94}	15.5	X	317.42494	7.22694	52.21068	1.36051	0.1558921	0.17885970	3.1198069	21	10 21.5	19.2
91976 1999 VD_{96}	15.6	X	82.55514	356.00971	336.64703	0.27955	0.1089634	0.18576595	3.0419961	21	12 30.8	20.2
91977 1999 VH_{96}	14.8	X	265.06955	198.88615	216.59709	4.80559	0.1328940	0.17071424	3.2182731	21	8 1.2	19.5
91978 1999 VV_{96}	15.5	X	290.89926	59.66941	18.71433	1.21597	0.1500647	0.17652581	3.1472452	21	10 3.3	19.3
91979 1999 VU_{97}	14.5	X	195.92097	234.78508	50.57696	10.08099	0.0908614	0.19323017	2.9631440	21	—	—
91980 1999 VD_{98}	14.4	X	171.88223	204.61594	49.68612	10.30346	0.0156027	0.18522817	3.0478811	21	12 30.3	18.9
91981 1999 VB_{99}	14.2	X	89.97249	13.75817	218.20493	4.38354	0.1057324	0.17183018	3.2043240	21	9 5.5	18.8
91982 1999 VC_{102}	15.6	X	355.89205	206.96757	156.28470	1.15749	0.1642259	0.17657369	3.1466762	21	10 17.1	19.0
91983 1999 VY_{103}	15.8	X	66.84557	257.38602	64.89045	2.38463	0.2674080	0.18275189	3.0753517	21	12 19.7	20.6
91984 1999 VE_{106}	14.0	X	46.78944	225.81705	53.77912	9.51746	0.1017837	0.17166148	3.2064230	21	9 16.7	18.4
91985 1999 VO_{113}	13.7	X	124.85044	163.20898	42.01426	7.06826	0.0654444	0.17123095	3.2117953	21	9 12.3	18.5
91986 1999 VD_{114}	15.3	X	19.63235	96.70169	282.15361	6.21042	0.2384604	0.18286259	3.0741105	21	12 27.9	19.0
91987 1999 VF_{114}	14.5	X	23.11600	122.39372	307.71461	8.48733	0.0930722	0.18924779	3.0045690	21	—	—
91988 1999 VL_{114}	14.7	X	32.00361	115.56428	337.57483	9.85589	0.0798169	0.19299517	2.9655489	21	—	—
91989 1999 VO_{114}	14.5	X	143.95168	348.42756	323.09241	9.10453	0.0661719	0.19089069	2.9873049	21	—	—
91990 1999 VO_{115}	14.4	X	66.51699	51.53328	226.57375	17.47427	0.1431643	0.17522166	3.1628421	21	10 8.8	19.1
91991 1999 VH_{116}	15.0	X	325.80016	230.00485	208.58573	5.20809	0.0401846	0.18086912	3.0966570	21	12 3.9	19.1
91992 1999 VD_{120}	15.4	X	232.41677	134.82718	162.33636	2.39079	0.0571715	0.20160987	2.8804578	21	2 5.7	19.5
91993 1999 VP_{122}	15.4	X	264.57293	316.38500	193.91086	9.59052	0.0272948	0.18817086	3.0160217	21	12 14.9	19.7
91994 1999 VF_{124}	15.1	X	276.49886	274.93915	220.50700	10.10862	0.0971259	0.18339198	3.0681917	21	12 2.3	19.1
91995 1999 VC_{133}	14.9	X	352.71763	260.94987	191.30443	9.89675	0.0645975	0.19092874	2.9869080	21	—	—
91996 1999 VG_{133}	14.8	X	13.34821	56.79894	218.09715	18.49060	0.1146260	0.17021230	3.2245968	21	7 12.2	19.2
91997 1999 VQ_{135}	15.1	X	83.94352	192.08594	250.40584	5.43043	0.0792528	0.19740216	2.9212459	21	2 13.3	19.1
91998 1999 VE_{137}	15.3	X	124.07293	334.67819	309.58205	0.35128	0.1614444	0.18345698	3.0674669	21	12 17.5	20.3
91999 1999 VL_{139}	14.8	X	108.90201	70.77354	226.15763	11.24279	0.1383127	0.18563475	3.0434292	21	12 17.3	19.7
92000 1999 VN_{144}	14.2	X	215.31781	117.39597	38.54437	27.01170	0.1730637	0.17563381	3.1578922	21	10 15.2	19.4