

MINOR PLANET LIGHTCURVE PARAMETERS

Planet	Period	Variation	Note	Planet	Period	Variation	Note
1 Ceres	S 9.07417	0.03-0.06	3 p	81 Terpsichore	10.943	0.06-0.10	3
2 Pallas	7.8132	0.03-0.16	3 p	82 Alkmene	12.999	0.18-0.54	3 p
3 Juno	7.210	0.13-0.22	3 p	83* Beatrix	10.16	0.18	3 p
4* Vesta	5.342	0.12-0.19	3 p	84 Klio	23.562	0.04-0.21	3
5* Astraea	16.806	0.16-0.27	3 p	85 Io	6.875	0.05-0.18	3 p
6 Hebe	7.2745	0.05-0.21	3 p	86 Semele	16.634	0.09-0.18	3
7 Iris	7.139	0.05-0.29	3 p	87* Sylvia	5.184	0.22-0.50	3 p M
8* Flora	12.865	0.07-0.11	3 p	88* Thisbe	6.042	0.13-0.18	3 p
9* Metis	5.079	0.05-0.32	3 p	89 Julia	11.387	0.10-0.25	3 p
10 Hygiea	27.630	0.09-0.33	3 p	90* Antiope	16.509	0.05-0.88	3 p B
11 Parthenope	13.7204	0.05-0.12	3 p	91 Aegina	6.025	0.12-0.27	3
12 Victoria	8.6599	0.04-0.42	3 p	92 Undina	15.941	0.16-0.20	3 p
13* Egeria	7.045	0.12-0.37	3 p	93 Minerva	5.982	0.04-0.20	3 p M
14 Irene	15.028	0.03-0.16	3 p	94 Aurora	7.22	0.03-0.18	3 p
15* Eunomia	6.083	0.40-0.53	3 p	95 Arethusa	8.705	0.24-0.35	3 p
16* Psyche	4.196	0.03-0.34	3 p	96* Aegle	13.82	0.05-0.12	3
17* Thetis	S 12.27048	0.20-0.40	3 p	97* Klotho	35.15	0.14-0.30	3 p
18 Melpomene	11.570	0.10-0.34	3 p	98* Ianthe	16.479	0.15-0.34	3 p
19* Fortuna	7.4432	0.23-0.30	3 p	99* Dike	18.127	0.19-0.22	3 p
20 Massalia	8.098	0.17-0.27	3 p	100 Hekate	27.066	0.11-0.23	3
21 Lutetia	8.1655	0.06-0.25	3 p	101 Helena	23.080	0.09-0.13	3
22* Kalliope	4.1483	0.12-0.53	3 p B	102 Miriam	23.613	0.04-0.14	3
23* Thalia	12.312	0.10-0.3	3 p	103 Hera	23.740	0.35-0.45	3 p
24 Themis	8.374	0.09-0.14	3 p	104* Klymene	8.984	0.2 -0.3	3 p
25 Phocaea	9.9341	0.03-0.25	3 p	105* Artemis	S 37.15506	0.09-0.17	3 p
26 Proserpina	13.110	0.08-0.21	3 p	106 Dione	16.26	0.08	3
27 Euterpe	10.4082	0.13-0.21	3 p	107* Camilla	4.844	0.32-0.53	3 p M
28* Bellona	15.706	0.06-0.31	3 p	108* Hecuba	14.256	0.09-0.12	3 p
29* Amphitrite	5.3921	0.04-0.15	3 p	109 Felicitas	13.191	0.06-0.12	3
30 Urania	13.686	0.11-0.45	3 p	110* Lydia	10.927	0.10-0.26	3 p
31 Euphrosyne	5.530	0.06-0.11	3 p	111* Ate	22.072	0.08-0.18	3
32 Pomona	9.448	0.13-0.31	3 p	112 Iphigenia	31.466	0.30	3 p
33 Polyhymnia	18.608	0.13-0.20	3 p	113 Amalthea	9.950	0.19-0.22	3 p
34 Circe	12.15	0.17-0.25	3 p	114* Kassandra	10.7431	0.23-0.25	3
35 Leukothea	31.900	0.07-0.43	3 p	115* Thyra	7.241	0.19-0.20	3 p
36 Atalante	9.93	0.12-0.17	3 p	116* Sirona	12.028	0.42	3 p
37 Fides	7.3335	0.10-0.25	3 p	117 Lomia	9.127	0.10-0.35	3 p
38 Leda	12.838	0.05-0.16	3 p	118* Peitho	7.8055	0.11-0.33	3
39 Laetitia	5.138	0.08-0.53	3 p	119* Althaea	11.484	0.10-0.36	3 p
40* Harmonia	8.910	0.13-0.33	3 p	120 Lachesis	46.551	0.14-0.22	3 p
41* Daphne	5.988	0.24-0.45	3 p B	121* Hermione	5.55128	0.04-0.62	3 p B
42* Isis	13.590	0.14-0.32	3 p	122 Gerda	10.685	0.10-0.26	3 p
43 Ariadne	5.76218	0.06-0.73	3 p	123* Brunhild	9.873	0.14-0.21	3
44* Nysa	6.422	0.24-0.52	3 p	124* Alkestis	9.906	0.08-0.30	3
45* Eugenia	5.699	0.09-0.30	3 p M	125 Liberatrix	3.968	0.20-0.71	3 p
46* Hestia	21.040	0.11-0.12	3	126 Velleda	5.3672	0.07-0.22	3
47 Aglaja	13.178	0.03-0.17	3 p	127 Johanna	12.7988	0.18-0.21	3 p
48 Doris	11.89	0.17-0.36	3 p	128 Nemesis	77.81	0.08-0.10	3-
49* Pales	20.704	0.17-0.18	3-	129* Antigone	4.9572	0.25-0.42	3 p
50 Virginia	14.315	0.07-0.20	3	130 Elektra	5.225	0.19-0.58	3 p M
51 Nemausa	7.783	0.10-0.25	3 p 3	131 Vala	5.1812	0.09-0.32	3
52* Europa	5.6304	0.09-0.12	3 p	132 Aethra	5.1684	0.10-0.52	3 p
53 Kalypso	9.036	0.09-0.14	3 p	133 Cyrene	12.708	0.22-0.26	3 p
54* Alexandra	7.024	0.10-0.28	3 p	134 Sophrosyne	17.196	0.19-0.28	3
55* Pandora	4.8040	0.07-0.33	3 p	135 Hertha	8.403	0.12-0.30	3 p
56* Melete	18.147	0.07-0.16	3 p	136* Austria	11.4969	0.37-0.4	3 p
57* Mnemosyne	12.463	0.02-0.14	3	137 Meliboea	25.676	0.11-0.20	3 p
58 Concordia	9.895	0.09-0.15	3	138* Tolosa	10.101	0.26-0.45	3 p
59* Elpis	13.69	0.07-0.42	3	139* Juwewa	20.991	0.15-0.20	3 p
60* Echo	25.208	0.10-0.22	3 p	140 Siwa	34.445	0.05-0.15	3 p
61 Danaë	11.45	0.13-0.30	3	141* Lumen	19.87	0.12	3
62 Erato	9.2213	0.12-0.17	3 p	142 Polana	9.764	0.11	3
63* Ausonia	9.298	0.28-0.47	3 p	143 Adria	22.005	0.07-0.10	3
64 Angelina	8.752	0.04-0.42	3 p	144 Vibilia	13.819	0.13-0.20	3 p
65 Cybele	6.0814	0.02-0.12	3 p	145 Adeona	15.071	0.04-0.15	3
66* Maja	9.73509	0.21-0.45	3 p	146 Lucina	18.557	0.08-0.15	3 p
67* Asia	15.853	0.22-0.26	3	147 Protogeneia	7.8528	0.25-0.28	3 p
68 Leto	14.848	0.10-0.53	3 p 3	148* Gallia	20.664	0.20-0.32	3 p
69* Hesperia	5.655	0.12-0.20	3 p	149* Medusa	26.023	0.33-0.56	3 p
70 Panopaea	15.808	0.07-0.14	3-	150 Nuwa	8.1347	0.08-0.31	3 p
71 Niobe	35.864	0.12-0.22	3 p	151* Abundantia	9.864	0.15-0.20	3
72 Feronia	8.097	0.11-0.15	3 p	152 Atala	6.246	0.33-0.50	3 p
73 Klytia	8.297	0.26-0.35	3 p	153* Hilda	5.9587	0.04-0.20	2+ p A
74 Galatea	17.268	0.08-0.16	3	154* Bertha	25.224	0.04-0.10	3 p
75 Eurydike	5.357	0.10-0.15	3 p	155 Scylla	7.9597	0.11-0.46	3 p
76* Freia	9.973	0.05-0.15	3 p	156 Xanthippe	22.37	0.10-0.12	3
77 Frigga	9.012	0.07-0.20	3 p	157 Dejanira	15.825	0.33-0.52	3 p
78 Diana	7.2991	0.02-0.30	3	158 Koronis	14.218	0.28-0.43	3 p
79 Eurynome	5.978	0.05-0.25	3 p	159 Aemilia	24.476	0.17-0.24	3
80* Sappho	14.030	0.14-0.40	3 p	160* Una	11.033	0.10-0.18	3 p

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161* Athor	7.280	0.08-0.27	3 p	241* Germania	15.51	0.05-0.17	3 p
162 Laurentia	11.8686	0.28-0.37	3 p	242 Kriemhild	4.5478	0.08-0.24	3 p
163 Erigone	16.136	0.32-0.37	3 p	243* Ida	4.634	0.45-0.86	3 p B
164 Eva	13.66	0.04-0.36	3 p	244 Sita	129.51	0.80-0.82	3- p T0
165* Loreley	7.226	0.08-0.17	3 p	245 Vera	14.38	0.26	3 p
166* Rhodope	4.715	0.35-0.36	3 p	246 Asporina	16.222	0.22-0.47	3 p
167 Urda	13.07	0.24-0.39	3 p	247 Eukrate	12.093	0.10-0.18	3 p
168 Sibylla	47.009	0.16	3	248 Lameia	11.912	0.10-0.17	3
169 Zelia	14.537	0.13-0.14	3	249* Ilse	84.94	0.34-0.34	3 p
170 Maria	13.120	0.21-0.24	3 p	250* Bettina	5.0545	0.19-0.45	3 p
171 Ophelia	6.66535	0.14-0.46	3 p	251* Sophia	20.216	0.25-0.61	3 p
172* Baucis	27.417	0.25	3	252 Clementina	10.864	0.32-0.44	3
173 Ino	6.15	0.04-0.16	3 p	253 Mathilde	417.7	0.45-0.50	3 T
174 Phaedra	5.744	0.10-0.58	3 p	254 Augusta	5.8949	0.56-0.75	3 p
175* Andromache	8.324	0.28-0.30	3	255* Oppavia	19.499	0.14-0.16	3
176 Iduna	11.2877	0.14-0.43	3 p	256* Walpurga	16.664	0.25-0.58	3
177 Irma	13.856	0.24-0.37	3	257 Silesia	15.7095	0.29-0.30	3 p
178 Belisana	12.323	0.08-0.18	3 p	258* Tyche	10.041	0.08-0.40	3 p
179 Klytaemnestra	11.173	0.35-0.55	3 p	259 Aletheia	8.143	0.12	3
180* Garumna	23.866	0.27-0.6	3 p	260* Huberta	8.29	0.21-0.34	3 p
181 Eucharis	52.23	0.05-0.15	3	261 Prymno	8.002	0.13-0.20	3
182* Elsa	80.088	0.60-0.72	3 p	262 Valda	17.386	0.17	3
183 Istria	11.77	0.20-0.31	3 p	263* Dresda	16.809	0.37-0.55	3 p
184 Dejopeja	6.455	0.25-0.3	3 p	264* Libussa	9.2276	0.04-0.59	3 p
185* Eunike	21.797	0.08-0.22	3 p	265 Anna	11.681	0.48	3 p
186 Celuta	19.842	0.4 -0.55	3 p	266 Aline	13.018	0.05-0.10	3
187 Lamberta	10.670	0.23-0.32	3 p	267 Tirza	7.648	0.18-0.4	3
188* Menippe	11.98	0.13-0.28	3- p	268 Adorea	7.80	0.15-0.20	3 p
189* Phthia	22.346	0.18-0.28	3 p	269 Justitia	33.128	0.14-0.25	3
190 Ismene	6.52	0.10-0.16	3 p	270 Anahita	15.06	0.25-0.32	3 p
191* Kolga	17.604	0.21-0.5	3	271* Penthesilea	18.787	0.23-0.33	3 p
192* Nausikaa	13.625	0.20	3 p	272 Antonia	3.8548	0.43	3 p
193 Ambrosia	6.581	0.10-0.53	3 p	273 Atropos	23.924	0.52-0.65	3
194* Prokne	15.679	0.08-0.27	3	274* Philagoria	17.938	0.37-0.51	3 p
195 Eurykleia	16.521	0.10-0.24	3	275 Sapiencia	14.931	0.05-0.12	3-
196* Philomela	8.3340	0.07-0.33	3 p	276 Adelheid	6.315	0.07-0.17	3 p
197 Arete	6.6084	0.10-0.16	3	277 Elvira	29.69	0.34-0.59	3 p
198* Ampella	10.379	0.11-0.22	3	278* Paulina	6.497	0.32-0.51	3 p
199 Byblis	5.2201	0.05-0.15	3 p A	279 Thule	23.896	0.02-0.10	3 p
200 Dynamene	37.394	0.10	4	280* Philia	70.26	0.15	3
201* Penelope	3.7474	0.15-0.73	3 p	281 Lucretia	4.348	0.30-0.38	3 p
202* Chryseis	23.670	0.08-0.23	3	282 Clorinde	6.42	0.09	3
203 Pompeja	24.052	0.10	3	283* Emma	6.896	0.09-0.53	3 p B
204 Kallisto	19.489	0.09-0.26	3	284* Amalia	8.545	0.15-0.16	3
205 Martha	14.911	0.10-0.50	3	285 Regina	9.542	0.13-0.16	3
206* Hersilia	11.122	0.13-0.20	3	286 Iclea	15.365	0.13-0.20	3
207 Hedda	30.098	0.09-0.11	4	287 Nephthys	7.605	0.15-0.37	3 p
208 Lacrimosa	14.085	0.15-0.33	3 p	288 Glauke	1170.	0.36-0.9	3 T
209 Dido	5.7366	0.11-0.33	3 p	289* Nenetta	6.902	0.18-0.19	3
210 Isabella	6.672	0.09-0.38	3 p	290* Bruna	13.807	0.42-0.55	3 p
211 Isolda	18.365	0.09-0.14	3 p	291* Alice	4.313	0.15-0.55	3 p
212 Medea	10.283	0.04-0.16	3 p	292* Ludovica	8.93	0.15-0.78	3 p
213 Lilaea	8.045	0.07-0.20	3	293* Brasilia	8.17	0.20-0.30	3- p
214 Aschera	6.835	0.20-0.23	3 p	294* Felicia	10.4227	0.19-0.24	3
215* Oenone	27.937	0.1 -0.20	3	295 Theresia	10.730	0.11-0.22	3-
216 Kleopatra	5.385	0.12-1.22	3 p M	296 Phaëtusa	4.5385	0.38-0.70	3 p
217 Eudora	25.272	0.08-0.31	3	297 Caecilia	4.163	0.15-0.27	3 p
218 Bianca	6.337	0.05-0.27	3 p	298 Baptistina	16.23	0.10-0.25	3
219 Thusnelda	59.74	0.19-0.24	3	299 Thora	274.	0.39	2+ T0
220 Stephanía	18.198	0.21-0.45	3 p	300 Geraldina	6.8423	0.13-0.32	3
221 Eos	10.443	0.05-0.12	3 p	301 Bavaria	12.253	0.25-0.31	3
222* Lucia	7.8371	0.25-0.41	3 p	302 Clarissa	14.381	0.6	3 p
223 Rosa	20.283	0.06-0.13	3	303 Josephina	12.497	0.12-0.15	3
224 Oceana	9.401	0.09-0.14	3	304 Olga	18.36	0.14-0.24	3
225* Henrietta	7.3556	0.18-0.24	3 p	305* Gordonia	12.893	0.10-0.23	3
226 Weringia	11.147	0.08-0.38	3 p	306* Unitas	8.736	0.16-0.30	3 p
227 Philosophia	52.98	0.06-0.20	2 A	307* Nike	11.857	0.16-0.23	3
228* Agathe	6.484	0.27-0.33	3	308 Polyxo	12.029	0.08-0.15	3-
229 Adelinda	6.60	0.04-0.30	3	309* Fraternitas	22.398	0.10-0.35	3
230* Athamantis	24.0055	0.10-0.26	3 p	310 Margarita	12.070	0.14-0.37	3 p
231 Vindobona	14.245	0.20-0.29	3	311 Claudia	7.532	0.16-0.89	3 p
232 Russia	21.905	0.14-0.31	3	312* Pierretta	10.282	0.32	3 p
233* Asterope	19.70	0.25-0.35	3 p	313 Chaldaea	8.392	0.08-0.24	3 p
234 Barbara	26.4744	0.16-0.28	3 p	314* Rosalia	20.465	0.11-0.40	3
235* Carolina	17.610	0.25-0.38	3	315 Constantia	5.345	0.11-0.57	3 p
236 Honoria	12.336	0.05-0.27	3- p	316 Goberta	8.605	0.20-0.27	3
237* Coelestina	29.215	0.16-0.25	3 p	317 Roxane	8.169	0.61-0.75	3 p B
238* Hypatia	8.8749	0.10-0.21	3 p	318 Magdalena	42.49	0.06-0.11	2+
239 Adrastea	18.4707	0.34-0.51	3 p	319 Leona	9.6	0.03-0.10	1
240* Vanadis	10.64	0.08-0.34	3	320* Katharina	6.893	0.19-0.21	3

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321 Florentina	2.871	0.31–0.52	3 p	401 Ottilia	6.049	0.11–0.24	3
322* Phaeo	17.5845	0.13–0.20	3	402* Chloë	10.664	0.20–0.37	3 p
323 Brucia	9.463	0.19–0.36	3	403 Cyane	12.283	0.21–0.45	3 p
324 Bambergia	29.43	0.07–0.12	3 p	404 Arsinoë	8.887	0.27–0.38	3 p
325 Heidelberga	6.737	0.11–0.20	3	405 Thia	10.08	0.15–0.23	3
326 Tamara	14.445	0.10–0.27	3	406 Erna	8.789	0.35	3 p
327 Columbia	5.9320	0.16–0.42	3 p	407* Arachne	22.627	0.30–0.31	3 p
328* Gudrun	10.992	0.15–0.32	3	408 Fama	202.1	0.58	3 T0
329* Svea	22.778	0.09–0.13	2+	409* Aspasia	9.022	0.09–0.16	3 p
330 Adalberta	3.5553	0.44	3	410 Chloris	32.50	0.28–0.33	3
331* Etheridgea	25.315	0.12–0.13	3	411* Xanthe	11.344	0.09–0.23	3 p
332 Siri	8.0074	0.10–0.35	3	412 Elisabetha	19.635	0.08–0.20	3
333* Badenia	8.192	0.20–0.33	2+	413 Edburga	15.773	0.36–0.53	3 p
334* Chicago	7.361	0.20–0.67	3 p	414* Liriope	7.353	0.11–0.14	3–
335* Roberta	12.054	0.05–0.78	3 p	415 Palatia	20.73	0.33	3
336 Lacadiera	13.70	0.27–0.34	3 p	416* Vaticana	5.372	0.06–0.38	3 p
337 Devosa	4.653	0.08–0.75	3 p 3	417 Suevia	7.034	0.06–0.22	3 p
338* Budrosa	4.6084	0.46–0.47	3 p	418* Alemannia	4.671	0.20–0.33	3
339* Dorothea	5.974	0.09–0.10	3	419* Aurelia	16.784	0.07–0.18	3 p
340 Eduarda	8.0062	0.17–0.32	3 p	420 Bertholda	11.04	0.24–0.29	3
341* California	317.	0.75–0.75	2+	421* Zähringia	6.42	0.10–0.17	2 A
342 Endymion	6.319	0.15–0.23	3	422 Berolina	12.79	0.06–0.11	2
343* Ostara	109.87	0.15–0.52	3– p	423 Diotima	4.775	0.05–0.20	3 p
344 Desiderata	10.747	0.06–0.18	3 p	424 Gratia	19.47	0.32	3–
345 Tercidina	12.371	0.11–0.23	3 p	425 Cornelia	17.505	0.19–0.21	3
346* Hermentaria	28.523	0.07–0.20	3	426 Hippo	34.3	0.15–0.22	2
347 Pariana	4.0529	0.09–0.50	3 p	427 Galene	3.705	0.55–0.68	3 p
348 May	7.3812	0.14–0.16	3	428* Monachia	3.63384	0.18–0.34	3
349* Dembowska	4.701	0.10–0.41	3 p	429 Lotis	13.577	0.21–0.24	3
350* Ornamenta	9.178	0.10–0.3	3 p	430 Hybris	7.205	0.54	3
351 Yrsa	13.29	0.40–0.42	3 p	431* Nephele	18.821	0.03–0.18	2
352 Gisela	7.490	0.08–0.70	3 p	432 Pythia	8.252	0.14–0.15	3 p
353 Ruperto–Carola	2.73898	0.32	3 p	433* Eros	5.270	0.08–1.40	3 p
354 Eleonora	4.277	0.06–0.49	3 p	434 Hungaria	26.521	0.51–0.75	3 p
355 Gabriella	4.830	0.35–0.42	3 p	435* Ella	4.623	0.30–0.38	3 p
356 Liguria	31.82	0.22	3–	436 Patricia	16.133	0.22–0.28	3 p
357 Ninina	36.0105	0.12–0.24	2+	437* Rhodia	109.2	0.17	2
358* Apollonia	50.6	0.15–0.15	3–	438 Zeuxo	8.831	0.13–0.14	3
359 Georgia	5.537	0.16–0.54	3	439* Ohio	37.46	0.20–0.24	3
360 Carlova	6.183	0.30–0.49	3 p	440 Theodora	4.828	0.43–0.72	3 p
361* Bononia	13.83	0.19–0.25	3 p	441 Bathilde	10.446	0.08–0.20	3 p
362 Havnja	16.92	0.09–0.17	3 p	442 Eichsfeldia	11.871	0.24–0.38	3
363* Padua	8.401	0.14–0.3	3	443 Photographica	19.795	0.24–0.34	3
364 Isara	9.156	0.30–0.40	3 p	444 Gypsis	6.214	0.10–0.18	3
365 Corduba	12.705	0.05–0.15	3 p	445 Edna	19.97	0.21	2
366* Vincentina	12.7365	0.05	3–	446 Aeternitas	15.7413	0.35–0.51	3 p
367 Amicitia	5.05538	0.25–0.90	3 p	447 Valentine	9.651	0.18	3
368 Haidea	9.823	0.15–0.23	3	448 Natalie	8.0646	0.32	3
369 Aëria	4.778	0.06–0.13	3 p	449 Hamburga	18.263	0.08–0.17	2+
370 Modestia	22.5299	0.24–1.39	3	450* Brigitta	10.7657	0.22–0.30	3 p
371 Bohemia	10.7391	0.12–0.18	3 p	451* Patientia	9.727	0.07–0.10	3 p
372 Palma	8.567	0.10–0.17	3 p	452 Hamiltonia	2.8813	0.17–0.17	3
373 Melusina	12.97	0.20–0.25	3	453 Tea	6.812	0.03–0.37	3
374 Burgundia	6.972	0.05–0.18	3	454 Mathesis	8.378	0.20–0.37	3
375 Ursula	16.83	0.04–0.17	2	455 Bruchsalia	11.85	0.10–0.35	2+ p
376 Geometria	7.74	0.14–0.19	3 p	456* Abnoba	18.281	0.2 –0.32	3
377 Campania	11.664	0.14–0.27	3 p	457 Alleghenia	21.953	0.20	3–
378 Holmia	4.450	0.10–0.21	3 p	458* Hercynia	21.806	0.10–0.36	3
379 Huenna	14.141	0.07–0.12	3 B	459* Signe	5.5362	0.25–0.54	3
380 Fiducia	13.69	0.04–0.32	3	460 Scania	9.55	0.05	2–
381* Myrrha	6.572	0.30–0.36	3 p	461 Saskia	7.348	0.25–0.36	3
382 Dodona	4.113	0.39–0.42	3 p	462 Eriphyla	8.659	0.11–0.39	3 p
383 Janina	6.4	0.06–0.17	3	463 Lola	6.206	0.20–0.22	3
384 Burdigala	21.1	>0.03	2–	464* Megaira	12.726	0.08–0.10	2
385 Ilmatar	62.35	0.50	3	465* Alekto	10.936	0.12–0.16	3
386 Siegena	9.763	0.10–0.18	3 p	466* Tisiphone	8.834	0.11–0.18	3
387* Aquitania	24.144	0.09–0.25	3	467 Laura	36.8	0.14	1
388 Charybdis	9.516	0.14–0.25	3	468* Lina	16.33	0.13–0.18	3
389 Industria	8.53	0.18–0.34	3 p	469 Argentina	17.573	0.12	3–
390* Alma	3.74	0.41–0.42	3 p	470 Kilia	290.	0.26	2 T0
391* Ingeborg	26.391	0.48–0.79	3 p	471 Papagena	7.113	0.10–0.13	3 p
392* Wilhelmina	13.058	0.10–0.70	3	472 Roma	9.8007	0.27–0.45	3
393 Lampetia	38.7	0.12–0.14	2– A	473 Noll	3.0785	0.19	3
394* Arduina	16.53	0.28–0.69	3 p	474* Prudentia	8.572	0.49–0.90	3 p
395 Delia	19.71	0.15–0.25	2	475 Ocllo	7.3151	0.19–0.81	3
396* Aeolia	22.2	>0.1	2–	476* Hedwig	27.33	0.13	3
397 Vienna	15.48	0.20	3	477* Italia	19.413	0.15–0.32	3
398 Admete	11.208	0.13	2	478* Tergeste	16.104	0.23	2+
399 Persephone	9.136	0.40	3 p	479 Caprera	9.43	0.10–0.25	3
400 Ducrosa	6.87	0.62	3– p	480* Hansa	16.19	0.14–0.58	3 p

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Planet	Period	Variation	Note	Planet	Period	Variation	Note
481* Emita	14.412	0.16–0.30	3	561 Ingwelde	12.012	0.38	3
482 Petrina	11.7922	0.07–0.56	3 p	562 Salome	6.351	0.17–0.37	3–p
483 Seppina	12.727	0.14–0.29	3	563 Suleika	5.69	0.13–0.28	3
484 Pittsburghia	10.63	0.33–0.42	3 p	564* Dudu	8.882	0.40–0.55	3 p
485 Genua	17.59	0.12–0.16	3 p	565* Marbachia	4.587	0.20–0.70	3 p
486 Cremona	65.15	0.80–1.00	3–p	566 Stereoskopia	12.103	0.03–0.25	3
487 Venetia	13.34	0.03–0.30	3 p	567 Eleutheria	7.717	0.20–0.50	3 p
488 Kreusa	32.666	0.08–0.2	2+	568* Cheruskia	13.209	0.10	3
489* Comacina	9.02	0.12–0.33	3 p	569* Misa	11.595	0.09–0.25	3
490 Veritas	7.930	0.21–0.58	3 p	570* Kythera	8.120	0.12–0.20	2
491 Carina	15.153	0.08–0.12	2+	571 Dulcinea	126.3	0.50	3 T
492* Gismonda	6.488	0.10–0.14	3	572 Rebekka	5.6497	0.19–0.40	3 p
493 Griseldis	51.940	0.42	3	573 Recha	7.16633	0.20–0.34	3 p
494 Virtus	5.57	0.03–0.12	2+	574 Reginhild	14.339	0.17	3 3
495 Eulalia	28.967	0.06–0.30	3 p	575 Renate	3.676	0.14–0.20	3 p
496 Gryphia	18.0	0.05	1	576 Emanuela	8.192	0.06–0.06	3 N
497 Iva	4.620	0.19–0.50	3 p	577* Rhea	12.249	0.21–0.24	3–
498* Tokio	41.85	0.23–0.23	3	578 Happelia	10.061	0.11–0.16	3 p
499 Venusia	13.48	0.33–0.36	3 p	579 Sidonia	16.286	0.02–0.28	3–p
500 Selinur	8.0111	0.10–0.16	3	580 Selene	9.47	0.27	3–
501* Urhixidur	13.1743	0.11–0.14	3	581 Tauntonia	16.54	0.07–0.20	2
502 Sigune	10.922	0.25–0.66	3 p	582* Olympia	36.312	0.05–0.6	3
503* Evelyn	38.780	0.30–0.5	3–	583* Klotilde	9.2135	0.17–0.30	3
504* Cora	7.588	0.15–0.4	3–	584 Semiramis	5.068	0.18–0.44	3 p
505 Cava	8.1789	0.15–0.27	3 p	585* Bilkis	8.577	0.10–0.41	3
506 Marion	13.546	0.17–0.35	3 p	586 Thekla	13.670	0.24–0.30	3
507* Laodica	4.706	0.18–0.47	3 p	587 Hypsipyle	2.8881	0.39	3 p
508 Princetonia	52.8	0.40	3	588* Achilles	7.306	0.10–0.31	3 p
509 Iolanda	12.306	0.35–0.45	3 p	589* Croatia	24.821	0.16–0.32	2+
510* Mabella	19.4	0.25	3 p	590 Tomyris	5.562	0.21–0.93	3 p
511 Davida	5.1297	0.06–0.25	3 p	591 Irmgard	7.35	0.23–0.26	3
512* Taurinensis	5.585	0.14–0.43	3 p	592 Bathseba	7.7465	0.22–0.32	3
513 Centesima	5.23	0.18–0.45	3 p	593 Titania	9.89	0.24–0.26	3
514* Armida	21.851	0.16–0.27	3	594 Mireille	4.966	0.18	3
515 Athalia	10.636	0.13–0.22	3	595 Polyxena	11.801	0.05–0.69	3 p
516 Amherstia	7.49	0.15–0.55	3 p	596 Scheila	15.8480	0.06–0.10	3 p
517 Edith	9.2747	0.08–0.18	3	597* Bandusia	15.340	0.06–0.11	2
518 Halawe	14.310	0.50–0.55	3 p	598* Octavia	10.8903	0.05–0.28	3
519 Sylvania	17.962	0.40	3 p	599* Luisa	9.566	0.10–0.18	3
520 Franziska	16.507	0.35–0.51	3 p	600 Musa	5.8856	0.26–0.28	3 p
521 Brixia	28.479	0.05–0.12	3	601 Nerthus	13.59	0.25–0.29	3 p
522 Helga	8.129	0.13–0.31	3	602* Marianna	35.195	0.07–0.17	3
523 Ada	10.03	0.52–0.70	3 p	603 Timandra	41.79	0.10	3–
524 Fidelio	14.198	0.18–0.22	3	604 Tekmessa	5.5596	0.49–0.52	3
525 Adelaide	19.967	0.35	3–	605 Juvisia	15.93	0.24–0.26	2
526 Jena	9.474	0.27–0.35	3 p	606 Brangäne	12.2950	0.20	3–p
527 Euryanthe	26.06	0.11	2–	607 Jenny	8.521	0.17–0.26	3
528 Rezia	7.337	0.36–0.39	3	608 Adolfine	8.3458	0.16–0.37	3
529* Preziosa	27.	0.56	2 p	609 Fulvia	35.375	0.21–0.31	3
530 Turandot	19.960	0.10–0.16	3–	610 Valeska	4.9047	0.19	3
531 Zerlina	16.706	0.12–0.70	3 p	611 Valeria	6.977	0.08–0.16	3
532 Herculina	9.405	0.12–0.25	3 p	612 Veronika	8.243	0.13–0.14	3–
533 Sara	11.654	0.19–0.30	3	613* Ginevra	13.024	0.20	2
534 Nassovia	9.382	0.15–0.37	3 p	614 Pia	4.572	0.21–0.42	3 p
535 Montague	10.2482	0.18–0.25	3	615 Roswitha	4.422	0.11	3
536 Merapi	8.78	0.23–0.38	3	616 Elly	5.297	0.34–0.44	3 p
537* Pauly	16.168	0.14–0.20	3 p	617* Patroclus	102.8	0.06–0.07	3 B
538* Friederike	46.728	0.25–0.25	3	618* Elfriede	14.795	0.12–0.17	3–
539* Pamina	13.903	0.10–0.11	3	619* Triberga	29.311	0.30–0.45	3
540 Rosamunde	9.351	0.40–0.66	3 p	620 Drakonia	5.487	0.52–0.65	3 p
541* Deborah	29.368	0.07–0.10	3	621* Werdandi	11.776	0.54–0.80	3 p
542* Susanna	10.069	0.11–0.30	3	622* Esther	47.5	0.30–0.6	2 p
543 Charlotte	10.718	0.23–0.28	3 p	623 Chimaera	14.635	0.12–0.18	3
544 Jetta	7.745	0.44–0.52	3 p	624* Hektor	6.924	0.10–1.10	3 p B
545* Messalina	7.2	0.22–0.27	3	625 Xenia	21.017	0.21–0.50	3–p
546* Herodias	10.77	0.18	3	626 Notburga	19.353	0.10–0.21	3
547 Praxedis	9.105	0.04–0.09	3	627* Charis	27.888	0.05–0.35	3
548 Kressida	11.9404	0.44	2	628* Christine	16.1783	0.18–0.22	3 p
549 Jessonda	2.962	0.05–0.10	2+	629 Bernardina	3.763	0.23–0.39	3 p
550* Senta	20.555	0.18–0.41	3 p	630 Euphemia	350.	0.20–0.45	2 T0
551* Ortrud	13.05	0.14–0.18	2	631 Philippina	5.899	0.06–0.69	3 p
552* Sigelinde	17.156	0.15–0.16	3	632 Pyrrha	4.1167	0.40	3 p
553 Kundry	12.605	0.41–0.61	3 p	633* Zelima	11.730	0.14–0.53	3
554 Peraga	13.7128	0.11–0.28	3	634 Ute	11.7554	0.14–0.17	3 A
555 Norma	19.55	0.06–0.20	2+	635 Vundtia	11.790	0.15–0.27	3
556 Phyllis	4.293	0.22–0.27	3 p	636 Erika	14.603	0.29–0.33	3 p
557 Violetta	5.0887	0.25	3	637* Chrysothemis	3.7	0.06	1
558 Carmen	11.387	0.2 –0.31	3	638 Moira	9.875	0.10–0.31	3
559 Nanon	10.059	0.09–0.26	3	639 Latona	6.193	0.07–0.35	3 p
560 Delila	29.913	0.15	3	640 Brambilla	7.768	0.25	3

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641* Agnes	178.0	0.55–0.55	3	724 Hapag	3.1305	0.10–0.11	3
642 Clara	8.2308	0.26–0.31	3	725 Amanda	3.749	0.35–0.42	3 p
643 Scheherezade	14.161	0.23–0.36	3	726 Joëlla	13.04	0.12	3
644* Cosima	7.556	0.20–0.28	3 p	727 Nipponia	5.0687	0.11–0.19	3 p
645 Agrippina	32.6	0.11–0.18	2	728* Leonisis	5.5783	0.19–0.39	3
647 Adelgunde	32.202	0.28	3	729 Watsonia	25.230	0.17–0.30	3
648 Pippa	9.263	0.31–0.36	3	730* Athanasia	5.7348	0.14–0.63	3
649* Josefa	10.481	0.27–0.33	3	731* Sorgia	8.184	0.19–0.72	3 p
650 Amalasuntha	16.582	0.45–0.49	3 p	732* Tjilaki	12.34	0.10–0.33	3–p
651 Antikleia	20.299	0.13–0.41	3	733 Mocia	11.374	0.29	3 p
652 Jubilatrix	2.6627	0.21–0.32	3 p	734 Benda	7.110	0.28–0.32	3
653 Berenike	12.4886	0.03–0.11	3	735 Marghanna	20.62	0.11–0.13	3–
654 Zelinda	31.735	0.08–0.3	3	736 Harvard	6.7	0.32	3
655* Briseis	160.66	0.09–0.40	3	737 Arequipa	7.0259	0.10–0.27	3
656* Beagle	7.035	0.57–1.20	3	738 Alagasta	18.86	0.11–0.20	2+
657 Gunlöd	15.6652	0.19–0.20	3	739 Mandeville	11.931	0.14	2
658* Asteria	21.034	0.22–0.28	3	740 Cantabia	64.453	0.16	3
659* Nestor	15.98	0.22–0.31	3	741 Botolphia	23.93	0.12–0.40	2–
660 Crescentia	7.9116	0.15–0.33	3 p	742 Edisona	18.52	0.24–0.30	3 p
661 Cloelia	5.536	0.26	3	743 Eugenisia	10.23	0.10–0.20	3
662* Newtonia	21.095	0.42–0.51	3–	744* Aguntina	17.47	0.42–0.50	3 p
663 Gerlinde	10.251	0.19–0.35	3	745 Mauritia	9.945	0.12	3
664 Judith	13.764	0.15–0.4	2+	746 Marlu	7.787	0.22–0.23	3 p
665 Sabine	4.294	0.33–0.45	3 p	747* Winchester	9.4146	0.13–0.18	3 p
666 Desdemona	14.607	0.07–0.22	2+	748 Simeisa	11.919	0.22–0.36	2
667 Denise	12.687	0.24–0.25	3	749 Malzovia	5.9279	0.30	3–p
668 Dora	22.914	0.19	3	750 Oskar	6.2584	0.07–0.20	3
669* Kypria	14.283	0.17–0.64	3 p	751 Faina	23.678	0.36	3
670 Ottegebe	10.045	0.34–0.35	3 p	752 Sulamitis	27.367	0.20–0.36	3
671 Carnegie	8.332	0.24	3–	753 Tiflis	9.85	0.35–0.8	3 p
672 Astarte	22.572	0.10–0.16	3	754 Malabar	11.740	0.19–0.38	3
673 Edda	22.340	0.12–0.21	3	755 Quintilla	4.552	0.08–0.45	3
674 Rachele	30.982	0.17–0.18	3 p	756 Lilliana	7.834	0.18–0.99	3 p
675 Ludmilla	7.717	0.16–0.38	3 p	757 Portlandia	6.5837	0.24–0.45	3 p
676 Melitta	7.87	0.04–0.20	2 A	758 Mancunia	12.7253	0.15–0.27	3 p
677 Aaltje	16.608	0.10–0.37	3	759 Vinifera	14.229	0.36–0.40	3
678 Fredegundis	11.61624	0.25–0.27	3 p	760 Massinga	10.72	0.12–0.14	3
679 Pax	8.452	0.02–0.32	3 p	761 Brendelia	57.96	0.25	2+
680 Genoveva	11.089	0.21–0.25	3	762* Pulcova	5.839	0.18–0.42	3 p B
681 Gorgo	6.4606	0.42	3 p	763 Cupido	14.88	0.03	1
682 Hagar	4.8503	0.49–0.52	3 p	764 Gedania	24.9751	0.09–0.35	2
683 Lanzia	8.630	0.12–0.20	3 p 4	765 Mattiaca	3.4640	0.09	3– 4
684 Hildburg	15.89	0.22–0.23	2 A	766 Moguntia	4.8164	0.06–0.23	3
685 Hermia	50.40	0.86–0.92	3 p	767* Bondia	>60.	>0.1	HNW
686* Gersuind	6.3127	0.33–0.37	3 p	768 Struveana	8.76	0.26–0.54	2+
687 Tinette	7.40	0.25	3 p	769 Tatjana	35.08	0.30–0.34	3–p
688 Melanie	18.87	0.07–0.14	3 A	770 Bali	5.8190	0.21–0.65	3 p
689 Zita	6.425	0.30–0.62	3 p	771 Libera	5.892	0.34–0.57	3 p
690 Wratislavia	8.64	0.09–0.31	3 p	772 Tanete	17.258	0.07–0.18	3
691 Lehigh	12.891	0.12–0.16	2+ 3	773* Irmintraud	6.7514	0.09–0.15	3
692 Hippodamia	8.98	0.32–0.50	3 p	774 Armor	25.107	0.11–0.34	2
693 Zerbina	11.475	0.14–0.29	3–	775 Lumière	6.103	0.19–0.28	3
694* Ekard	5.925	0.20–0.50	3 p	776 Berbericia	7.668	0.08–0.26	3 p
695 Bella	14.222	0.35–0.59	3 p	777* Gutemberga	12.88	0.15–0.25	2
696 Leonora	26.8964	0.04–0.31	3	778 Theobalda	11.659	0.18	3
697 Galilea	16.538	0.23	3	779 Nina	11.186	0.06–0.32	3
698 Ernestina	5.0363	0.30–0.69	3 p	780 Armenia	19.891	0.1–0.18	3
699* Hela	3.3962	0.07–0.55	3 p	781 Kartvelia	19.04	0.16–0.28	3–
700 Auravictrix	6.075	0.18–0.43	3 p	782* Montefiore	4.0728	0.31–0.54	3
701 Oriola	9.090	0.20	3	783* Nora	34.4	0.08	2–
702* Alauda	8.3531	0.09–0.12	2 AB	784 Pickeringia	13.17	0.20–0.40	2 p
704 Interamnia	8.727	0.04–0.11	3 p	785 Zwetana	8.8882	0.13–0.20	3
705 Erminia	53.96	0.07–0.17	2	786 Bredichina	29.434	0.05–0.60	3–
706* Hirundo	22.027	0.25–0.9	3 p	787 Moskva	6.056	0.27–0.68	3 p
707* Steina	414.	1.00–1.00	2+ T0	788 Hohensteina	29.94	0.10–0.18	2 A
708* Raphaela	20.918	0.45–0.45	3–p	789 Lena	5.848	0.40–0.50	3 p
709 Fringilla	52.4	0.18	3–	790 Pretoria	10.37	0.05–0.18	3
710 Gertrud	8.288	0.26–0.30	3–	791 Ani	16.72	0.17–0.38	2
711 Marmulla	2.721	0.03–0.18	3	792 Metcalfia	9.17	0.15–0.76	3 p
712 Boliviana	11.7426	0.10–0.12	3	793* Arizona	7.399	0.22–0.25	3 4
713 Luscinia	9.9143	0.09–0.40	3	794 Irenaea	9.14	0.40	3–
714* Ulula	6.998	0.40–0.65	3 p	795 Fini	9.292	0.02–0.06	1+
715 Transvaalia	11.83	0.19–0.32	3	796 Sarita	8.1755	0.29–0.33	3
716 Berkeley	15.55	0.25	2+	797* Montana	4.5463	0.32–0.41	3 p
718 Erida	17.447	0.31–0.37	3 p	798 Ruth	8.550	0.19–0.36	3 p
719 Albert	5.801	0.25–1.0	3	799* Gudula	14.814	0.27–0.30	3
720 Bohlinia	8.919	0.16–0.46	3 p	800* Kressmannia	4.464	0.18–0.40	3 p
721 Tabora	7.982	0.19–0.30	3	801 Helwerthia	23.93	0.15	3–
722 Frieda		>0.04		802 Epyaxa	4.392	0.40–0.70	3 p
723* Hammonia	5.436	0.08–0.18	3	803 Picka	5.0742	0.12–0.47	3 p

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804 Hispania	14.845	0.08–0.24	3 p	889* Erynia	9.89	0.47–0.67	3 p
805 Hormuthia	9.510	0.05	3–	890 Waltraut	12.581	0.32–0.36	3 p
806 Gyldenia	16.852	0.10–0.27	3	891 Gunhild	11.892	0.18–0.37	3– p
807* Ceraskia	7.4	0.25–0.49	2 p	892 Seeligeria	41.40	0.15	2
808 Merxia	30.631	0.59–0.70	3 p	893 Leopoldina	14.115	0.18–0.35	3
809 Lundia	15.4142	0.16–1.12	3 p B	894 Erda	4.6897	0.05–0.27	3
810 Atossa	4.385	0.55	3 p	895* Helio	9.391	0.10–0.23	3–
811* Nauheima	4.0011	0.11–0.20	3	896 Sphinx	26.270	0.08	1
812 Adele	5.8587	0.69	3 p	897 Lysistrata	11.26	0.11	2 p
813* Baumeia	10.544	0.18–0.18	3–	898* Hildegard	24.855	0.36–0.36	3 p
814 Tauris	35.8	0.18–0.20	2	899 Jokaste	6.245	0.18–0.31	3 p
815 Coppelia	4.421	0.17–0.24	3	900 Rosalinde	16.648	0.28–0.52	2+ p
816 Juliana	10.557	0.22–0.53	3 p	901 Brunsia	3.1363	0.09–0.28	3
817 Annika	10.56	0.16–0.27	3	902 Probitas	10.117	0.10–0.18	2+
818 Kapteynia	16.35	0.09–0.12	3	903 Nealley	21.60	0.13–0.15	2 A
819 Barnardiana	66.70	0.82	2+ p	904 Rockefellia	5.82	0.10–0.18	2
821 Fanny	5.44	0.01	1	905 Universitas	14.238	0.22–0.33	3
822 Lalage	3.345	0.47–0.67	3	906* Repsolda	15.368	0.24–0.24	3
823* Sisigambis	146.	>0.7	2 p T0	907 Rhoda	22.44	0.08–0.16	3–
824* Anastasia	250.	1.20–1.20	3– T-	908 Buda	14.572	0.09–0.41	3 p
825 Tanina	6.940	0.20–0.54	3 p	909 Ulla	8.73	0.08–0.24	3
826 Henrika	5.9846	0.26	3	910 Anneliese	11.2863	0.13–0.16	3
827 Wolfiana	4.0654	0.20	3	911 Agamemnon	6.592	0.04–0.29	3
828* Lindemania	20.52	0.15	2	912* Maritima	1332.	0.10–0.18	3– T0
829 Academia	7.891	0.36–0.44	3– p	913 Otila	4.8720	0.09–0.45	3
830 Petropolitana	39.0	0.15	2 p	914 Palisana	15.922	0.04–0.18	3
831 Stateira	>4.	0.05	1	915 Cosette	4.445	0.30–1.02	3 p
832 Karin	18.348	0.30–0.65	3 p	916 America	38.	0.28	1
833 Monica	12.090	0.11–0.19	3	917 Lyka	7.92	0.14	2
834 Burnhamia	13.875	0.15–0.22	3	918* Itha	3.47393	0.30	3 p
836 Jole	9.615	0.37	3	919* Ilsebill	5.0325	0.24–0.25	3
837 Schwarzschilda	24.	0.02	1	920 Rogeria	8.09	0.16–0.21	2– p
838 Seraphina	15.67	0.07–0.30	2	921 Jovita	15.64	0.07–0.12	3–
839 Valborg	10.366	0.14–0.19	3	922 Schlutia	7.85683	0.18	3
840* Zenobia	5.565	0.08–0.28	3	923 Herluga	19.746	0.16	2
841* Arabella	3.142	0.22–0.26	3	924* Toni	19.437	0.24–0.24	3
844 Leontina	6.7859	0.20–0.26	3 p	925 Alphonsina	7.880	0.11–0.31	3 p
845 Naëma	20.892	0.16	2	926* Imhilde	26.8	0.20–0.27	2
846 Lipperta	1641.	0.30	2 T0	927 Ratisbona	12.994	0.12	2
847 Agnia	14.827	0.05–0.51	3 p	928 Hildrun	14.13	0.25–0.34	3 p
849 Ara	4.116	0.14–0.53	3 p	929 Algunde	3.31016	0.13–0.19	3
850* Altona	11.197	0.09–0.16	2+	930* Westphalia	100.66	0.15	2
851 Zeissia	9.34	0.38–0.53	3	931* Whittemora	19.199	0.15–0.25	2+
852 Wladilena	4.6134	0.25–0.31	3 p	932 Hooveria	39.1	0.20–0.22	2+
853 Nansenia	7.931	0.13–0.20	3–	933 Susi	4.6222	0.30–0.40	3 p
854* Frostia	37.56	0.33–0.38	3 B	934 Thüringia	8.166	0.52–0.66	3 p
855 Newcombia	3.003	0.33–0.41	3	935 Clivia	3.6222	0.13	3
856 Backlunda	12.08	0.24–0.33	2 p	936 Kunigunde	8.80	0.25	2 p
857* Glasenappia	8.20	0.27–0.92	3 p	937 Bethgea	7.5390	0.12–0.19	3
858 El Djezair	22.31	0.06–0.1	2	938 Chlosinde	19.204	0.12–0.16	2 A
859 Bouzaréah	23.2	0.13	2–	939 Isberga	2.9173	0.20–0.25	3 B
860 Ursina	9.386	0.22–0.50	3	940 Kordula	15.57	0.36	3
861 Aïda	10.95	0.32	3	942 Romilda	6.965	0.26–0.35	3
862* Franzia	7.52	0.10–0.13	2 A	943 Begonia	15.66	0.24–0.36	3 p
863 Benkoela	8.20	0.05–0.27	3–	944 Hidalgo	10.063	0.31–0.53	3 p
864 Aase	3.2324	0.31–0.38	3	945 Barcelona	7.36	0.09–0.13	3
865 Zubaida	11.3533	0.38	3	946 Poësia	108.5	0.24–0.32	2+
866 Fatme	20.03	0.06–0.21	2	947 Monterosa	5.164	0.15–0.23	3–
867 Kovacia	8.6772	0.86	3 p	948 Jucunda	26.24	0.30–0.35	3
868* Lova	41.3	0.10–0.40	2	949 Hel	10.85	0.14–0.14	2
869 Mellena	6.5155	0.20–0.27	3	950 Ahrensa	202.	0.40	3 T0
870 Manto	122.30	0.80	3 p	951 Gaspra	7.042	0.2 –1.0	3 p
871* Amneris	78.704	0.56–0.60	3–	952 Caia	7.51	0.03–0.13	2
872* Holda	5.945	0.17–0.47	3 p	953* Painleva	7.389	0.05–0.05	2–
873 Mechthild	11.006	0.18–0.33	3 p	954 Li	7.207	0.11–0.25	3
874 Rotraut	14.586	0.24	2 p	955* Alstede	5.19	0.26–0.67	3 p
875 Nymphe	12.618	0.15–0.46	3– p	956 Elisa	16.492	0.35–0.37	3
876 Scott	11.814	0.25–0.35	2 W	957 Camelia	150.	>0.30	1+
877 Walküre	17.424	0.33–0.44	3– p	958* Asplinda	17.55	0.18–0.57	3– p
878 Mildred	2.660	0.23	3–	959 Arne	123.7	0.24	3–
879 Ricarda	82.9	0.37	2	960* Birgit	8.85	0.28–0.28	2+
880 Herba	12.266	0.13–0.21	3	962 Aslög	5.465	0.21	3
881 Athene	13.895	0.39–0.53	3– p	963 Idubergera	3.0341	0.30–0.34	3
882 Swetlana	>20.	0.17	2–	964 Subamara	6.868	0.11–0.25	3
883 Matterania	5.64	0.36–0.42	3	965 Angelica	17.772	0.06	2
884* Priamus	6.8605	0.23–0.40	3	966 Muschi	5.355	0.31–0.44	3 p
885 Ulrike	4.90	0.55–0.72	3 p	967 Helionape	3.234	0.04–0.12	3
886 Washingtonia	9.001	0.12	3	968* Petunia	61.280	0.30–0.38	3 p
887 Alinda	73.97	0.35	2 p T0	969 Leocadia	6.87	0.14	2
888 Parysatis	5.9314	0.22–0.26	3	970 Primula	2.777	0.16–0.30	3

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971 Alsatia	9.614	0.17–0.29	3	1057 Wanda	28.8	0.14–0.41	2
972 Cohnia	18.472	0.19–0.21	3	1058* Grubba	46.30	0.10–0.24	3
973 Aralia	7.29	0.20–0.25	2+	1059 Mussorgskia	5.636	0.2 –0.21	3
974 Lioba	38.7	0.37	3	1060 Magnolia	2.911	0.05–0.32	3
975* Perseverantia	7.267	0.17–0.23	3	1061* Paeonia	7.9971	0.5 –1.00	3– p
976 Benjamina	9.700	0.17–0.18	3–	1062 Ljuba	33.8	0.17–0.18	3
977 Philippa	15.405	0.49	3	1063 Aquilegia	5.792	0.75–0.93	3
978* Aidamina	10.099	0.13–0.24	3	1064 Aethusa	8.621	0.12–0.18	2
979 Ilsewa	42.61	0.30–0.31	3	1065 Amundsenia	7.7594	0.14–0.16	3
980 Anacostia	20.117	0.05–0.21	3	1067 Lunaria	6.057	0.13–0.27	3
981* Martina	11.267	0.15–0.24	2	1068 Nofretete	6.15	0.04	2
982 Franklina	>16.	>0.05	2–	1069 Planckia	8.665	0.14–0.42	3
983* Gunila	8.37	0.11	2	1070 Tunica	15.673	0.32	2
984 Gretia	5.778	0.26–0.73	3	1071* Brita	5.8169	0.18–0.20	3
985 Rosina	3.0126	0.22	3	1072* Malva	10.080	0.17–0.17	3
986 Amelia	9.52	0.25–0.43	3	1073 Gellivara	11.32	0.35	2
987 Wallia	10.0813	0.11–0.36	3	1074* Beljawska	6.284	0.32–0.37	3
988* Appella	>120.	>0.4	2	1075* Helina	44.9	0.64–0.91	3– p
989 Schwassmannia	107.85	0.35–0.39	3	1076 Viola	7.336	0.12	3
990 Yerkes	24.56	0.26–0.35	3	1077 Campanula	3.85085	0.24–0.40	3
992 Swasey	13.308	0.17	2	1078* Mentha	85.	0.65–0.87	3
993 Moultona	5.2712	0.73	3	1079* Mimosa	64.6	0.07–0.13	2–
994 Otthild	5.95	0.09–0.15	2+ p	1080* Orchis	16.1	0.23–0.31	3
995* Sternberga	14.612	0.04–0.20	2+	1081 Reseda	7.3002	0.34	3
996* Hilaritas	10.05	0.54–0.70	3	1082 Pirola	15.8525	0.53–0.62	3
997 Priska	16.22	0.61	2	1083 Salvia	4.23	0.61	3
998 Bodea	8.574	0.68	3	1084 Tamariwa	6.1961	0.25–0.42	3
999 Zachia	22.77	0.30	2	1085* Amaryllis	18.111	0.19–0.20	3–
1000 Piazzia	9.47	0.18–0.45	3	1086 Nata	18.074	0.17	2
1001* Gaussia	20.99	0.11–0.16	3	1087 Arabis	5.794	0.14–0.40	3
1002 Olbersia	10.244	0.38	3	1088 Mitaka	3.0361	0.23–0.62	3
1003 Lilofee	8.255	0.52–0.57	3	1089 Tama	16.44	0.08–0.41	3
1004 Belopolskya	9.44	0.14	2	1090 Sumida	2.719	0.10–0.34	3
1005* Arago	8.784	0.22	3	1091* Spiraea	7.01	>0.03	1+
1006 Lagrangea	32.79	0.17	1	1092* Lilium	24.60	0.25–0.25	3–
1007 Pawlowia	8.23	>0.02	1	1093 Freda	19.67	0.06–0.21	3
1008 La Paz	8.998	0.14–0.19	3	1094 Siberia	21.15	0.45	2
1010 Marlene	31.06	0.17–0.32	2+ p	1095* Tulipa	2.78721	0.14–0.23	3
1011 Laodamia	5.17247	0.41–0.45	3	1096* Reunerta	13.036	0.20–0.39	3
1012 Sarema	10.32	0.81	3	1097 Vicia	26.5	0.08	1
1013 Tombecka	6.053	0.44–0.50	3	1098 Hakone	7.142	0.35–0.40	3
1014 Semphyra	5.636	0.12	3	1099* Figneria	13.577	0.15–0.16	3–
1015 Christa	11.230	0.12–0.20	3–	1100* Arnica	14.535	0.09–0.28	3
1016* Anitra	5.92951	0.27–0.50	3	1101 Clematis	34.3	0.16–0.40	2
1017* Jacqueline	7.87	0.43–0.72	3	1102* Pepita	5.1054	0.31–0.36	3
1018* Arnolda	14.617	0.28–0.39	3	1103 Sequoia	3.03784	0.34–0.53	3
1019 Strackea	4.044	0.15–0.25	3	1104 Syringa	5.1547	0.27	3
1020 Arcadia	17.02	0.05	1	1105 Fragaria	10.88	0.12	1
1021 Flammario	12.160	0.14–0.40	3– p	1106* Cydonia	2.679	0.28	3
1022* Olympiada	3.822	0.27–0.46	3	1107 Lictoria	8.5616	0.16–0.30	3
1023 Thomana	17.56	0.27–0.36	3– p	1108* Demeter	9.846	0.12–0.14	3
1024 Hale	16.0	0.10	1+	1109 Tata	8.277	0.06	2
1025 Riema	3.588	0.10–0.25	3	1110* Jaroslawa	97.4	0.65–0.80	3– p
1026 Ingrid	5.	0.5	2	1111 Reinmuthia	4.02	0.61–0.95	3
1027* Aesculapia	13.529	0.09–0.19	2	1112 Polonia	82.5	0.20	2
1028 Lydina	11.680	0.22–0.7	3	1113 Katja	18.465	0.08–0.17	3
1029 La Plata	15.310	0.26–0.58	3	1114 Lorraine	32.	0.16	1
1030 Vitja	5.7014	0.18–0.21	3–	1115 Sabauda	6.75	0.16–0.27	3–
1031* Arctica	51.0	>0.22	2	1116 Catriona	8.832	0.09–0.20	3
1032 Pafuri	>24.	0.15–0.3	1	1117* Reginita	2.946	0.10–0.33	3
1033 Simona	10.07	0.04	1+	1118 Hanskya	15.61	0.18–0.38	2
1035 Amata	9.081	0.41–0.44	3	1119 Euboea	11.41	0.46–0.50	3
1036 Ganymed	10.297	0.07–0.45	3	1120 Cannonia	3.816	0.15–0.16	3
1038 Tuckia	23.2	0.10	2	1121 Natascha	13.197	0.51	3
1039 Sonneberga	34.2	0.41	2	1122 Neith	12.599	0.08	2
1040 Klumpkea	59.2	0.77	2	1123* Shapleya	52.92	0.25–0.38	3–
1041 Asta	7.554	0.12–0.14	3–	1124* Stroobantia	16.39	0.06–0.15	1
1042 Amazone	540.	0.10–0.25	2	1125 China	5.367	0.38–0.62	3
1043 Beate	44.3	0.47	2+	1126 Otero	3.64808	0.69–0.70	3
1044* Teutonia	3.153	0.20–0.32	3	1127 Mimi	12.749	0.72–0.95	3
1046 Edwin	5.2906	0.14–0.27	3	1128* Astrid	10.228	0.13–0.29	2+
1047 Geisha	25.62	0.33	3–	1129 Neujmina	5.0844	0.06–0.20	3
1048 Feodosia	10.46	0.14–0.14	2	1130 Skuld	4.810	0.26–0.50	3
1049 Gotho	8.470	0.17	3–	1131 Porzia	4.6584	0.15–0.23	3
1050 Meta	6.142	0.46	3	1132 Hollandia	5.360	0.15–0.35	2+
1051* Merope	27.2	0.11–0.20	2	1133 Lugduna	5.477	0.33–0.49	3
1052 Belgica	2.7097	0.08–0.10	3	1135* Colchis	23.47	0.33–0.46	2
1054 Forsytia	7.650	0.23	3	1136 Mercedes	24.64	0.10–0.15	2
1055 Tynka	11.893	0.06–0.33	2	1137* Raissa	142.79	0.56–0.56	3– p
1056 Azalea	11.893	0.07–0.79	2+ p	1139* Atami	27.446	0.15–0.45	3

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1140* Crimea	9.77	0.23-0.30	3 p	1227 Geranium	12.363	0.08	3
1142* Aetolia	10.730	0.15-0.22	3-	1230 Riceia	S 6.67317		3 p Ns
1143* Odysseus	10.111	0.15-0.22	2+	1231 Auricula	3.9816	0.75	3 p
1144* Oda	44.023	0.41	2 W	1232 Cortusa	25.16	0.10-0.17	2
1145* Robelmonte	8.002	0.13-0.18	3-	1233 Kobresia	27.83	0.32-0.34	2
1146 Biarmia	5.4700	0.20-0.32	3	1234* Elyna	5.4221	0.21-0.37	3
1147 Stavropolis	5.66070	0.32-0.42	3 p	1235 Schorria	1265.	1.40	3 TO
1148 Rarahu	6.5447	0.05-0.94	3-p	1236 Thais	>72.	>0.08	1
1149 Volga	27.5	0.26	2	1237 Geneviève	16.37	0.17-0.23	2
1150 Achaia	60.99	0.72	3 p	1238 Predappia	8.94	0.03-0.03	2- 1A
1151 Ithaka	4.93115	0.12-0.15	3	1240* Centenaria	11.2907	0.12-0.20	3
1152 Pawona	3.4154	0.16-0.26	3	1241 Dysona	8.6080	0.24-0.25	3-p
1153* Wallenbergia	4.096	0.23-0.33	3	1242* Zambesia	15.72	0.15-0.24	2
1154* Astronomia	18.1154	0.39	3-	1243 Pamela	26.017	0.42-0.71	2
1155 Aëna	8.07	0.28	2+	1244 Deira	210.6	0.50	2 p TO
1156 Kira	2.9710	0.20-0.26	3	1245 Calvinia	4.84	0.37-0.7	3 p
1157 Arabia	15.225	0.37	3-	1246 Chaka	25.462	0.18-0.25	3
1158 Luda	6.863	0.13-0.22	3 p	1248 Jugurtha	12.910	0.70-1.40	3 p
1159* Granada	31.	0.24-0.28	2	1249* Rutherfordia	18.242	0.55-0.81	3 p
1160 Illyria	4.1025	0.56-0.91	3 p	1250* Galanthus	3.92	0.22-0.28	3
1162 Larissa	6.516	0.12-0.20	3	1251 Hedera	19.9000	0.41-0.61	3-p
1163* Saga	9.365	0.25-0.29	3-	1252 Celestia	10.636	0.26	3
1164 Kobolda	4.141	0.21-0.30	3	1253* Frisia	14.557	0.15-0.16	2 1
1165 Imprinetta	8.107	0.20	3	1254* Erfordia	12.287	0.33-0.47	3
1166* Sakuntala	6.29	0.32-0.40	3	1255 Schilowa	29.536	0.09-0.15	2 p
1167* Dubiago	14.3	0.21-0.23	2	1256* Normannia	488.063	0.39	2 W
1168* Brandia	11.444	0.50-0.62	3	1257 Móra	5.2948	0.23-0.43	3
1170 Siva	5.22	0.04-0.1	1	1258 Sicilia	13.500	0.19	3-
1171 Rusthawelia	10.98	0.26-0.31	3	1259* Ögyalla	17.334	0.25-0.41	3
1172 Aneas	8.705	0.06-0.62	3	1260 Walhalla		0.16	N
1173* Anchises	11.595	0.57-0.61	3 p	1261 Legia	8.693	0.13	2+
1174 Marmara	12.	0.2	2	1262 Sniadeckia	17.57	0.10-0.16	3
1175 Margo	6.01	0.22-0.40	3-p	1263* Varsavia	7.1639	0.12-0.28	3 p
1176 Lucidor	4.0791	0.05-0.06	3	1264* Letaba	>16.	0.11	2-
1177 Gonnessia	30.51	0.07-0.25	3-	1265 Schweikarda	18.13	0.07	1
1178 Irmela	11.989	0.34-0.40	2	1266 Tone	7.40	0.06-0.12	2 A
1179 Mally	46.692	0.08	1 W	1267 Geertuida	5.50	0.5	2 P
1180* Rita	13.090	0.05-0.30	2	1268 Libya	14.05	0.08	3
1181 Lilith	15.04	0.11	2	1269* Rollandia	19.98	0.02-0.13	2 A
1182 Ilona	29.8	0.98-1.2	2	1270 Datura	3.359	0.41-0.61	3 p
1183 Jutta	212.5	0.10	2 TO	1271 Isergina	7.59932	0.25-0.27	3-
1184* Gaea	2.94	0.09	2	1272* Gefion	3.087	0.20-0.22	2 W
1185 Nikko	3.79	0.20-0.50	3 p	1273* Helma	6.0851	0.26-0.32	3
1186* Turnera	12.085	0.20-0.34	3	1274* Delportia	5.615	0.05-0.26	3
1187 Afra	14.0701	0.38-0.40	3 p	1275* Cimbria	5.65	0.26-0.57	3 p
1188 Gothlandia	3.4916	0.59-0.81	3 p	1276 Uccia	4.90768	0.29-0.40	3 p
1189 Terentia	19.308	0.32-0.38	3	1277 Dolores	17.19	0.45	3
1190 Pelagia	2.3661	0.08	3	1278 Kenya	188.	0.75	3 p T
1191 Alfaterna	3.664	0.03-0.05	1	1279 Uganda	23.2	0.16	1
1192* Prisma	6.558	0.85-1.16	3 p	1280 Baillauda	12.6	0.25	2
1194 Aletta	20.39	0.27-0.32	2+	1281 Jeanne	15.18	0.45	2 p
1195 Orangia	6.167	0.20	2 W	1282 Utopia	13.623	0.28-0.36	3 p
1196 Sheba	6.319	0.21-0.28	3	1283 Komsomolia	96.	1.03	1+
1197 Rhodesia	16.062	0.22-0.32	2	1284 Latvia	9.55	0.10-0.23	3-
1198 Atlantis	>16.	>0.20	2	1285 Julietta	20.3	0.07-0.23	1
1199 Geldonia	28.3	0.11	2-	1286* Banachiewiczza	8.63	0.36-0.54	3 p
1200 Imperatrix	17.769	0.21-0.23	3	1288 Santa	8.28	0.46	2
1201* Strenua	14.775	0.30-0.35	2	1289 Kuttaissi	3.60	0.20-0.42	3 p
1202 Marina	9.45	0.29	3	1291 Phryne	5.58410	0.38-0.86	3 p
1203* Nanna	18.54	0.12-0.15	2	1292* Luce	6.9541	0.17-0.26	3
1204* Renzia	7.885	0.42-0.49	3 p	1293 Sonja	2.878	0.14-0.21	3
1206 Numerowia	4.7743	0.63	3 p	1294 Antwerpia	6.63	0.35-0.42	3 p
1207 Ostenia	9.073	0.5 -0.7	3 p	1295 Deflotte	14.64	0.16	2
1208* Troilus	56.17	0.20	2	1296 Andrée	5.18366	0.23-0.27	3
1209 Pumma	8.5001	0.28	3	1297* Quadea	6.267	0.21-0.35	3
1210 Morosovia	15.2616	0.36-0.56	3 p	1298 Nocturna	34.80	0.11	2
1211 Bressole	31.812	0.50	3-	1299 Mertona	4.977	0.46-0.59	3 p
1212* Francette	22.433	0.13	2	1300 Marcelle	>12.	0.05	2
1213 Algeria	>16.	>0.19	2	1301 Yvonne	7.320	0.52-0.90	3 p
1214 Richilde	9.860	0.31-0.32	3 p	1302 Werra		>0.1	
1215 Boyer	10.36	0.31-0.50	2	1303 Luthera	5.878	0.05-0.06	3
1216 Askania	6.536	0.30	3-	1304 Arosa	7.7478	0.13-0.38	3
1217 Maximiliana	3.1987	0.21	3-	1305* Pongola	8.335	0.14-0.18	3-
1219 Britta	5.575	0.48-0.75	3 p	1306 Scythia	7.525	0.15-0.25	3
1220* Crocus	491.4	0.15-1.00	3 TO	1307 Cimberia	2.820	0.29-0.31	3 p
1222 Tina	13.395	0.18-0.30	3	1308 Halleria	6.028	0.14-0.17	3
1223 Neckar	7.81	0.16-0.45	3 p	1309 Hyperborea	13.88	0.34-0.41	3
1224* Fantasia	4.995	0.09-0.47	3	1310 Villigera	7.830	0.36-0.39	3 p
1225 Ariane	5.5068	0.30-0.36	3	1311* Knopfia	19.296	0.20	3
1226* Golia	4.097	0.24-0.35	3	1312 Vassar	7.932	0.35	3 p

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Planet	Period	Variation	Note	Planet	Period	Variation	Note
1313 Berna	25.46	0.20–0.28	3 B	1398 Donnera	7.2311	0.15–0.26	3
1314 Paula	5.9498	0.81–1.00	3	1399 Teneriffa	2.692	0.14	2 W
1315 Bronisława	9.565	0.16–0.24	2	1400* Tirela	13.356	0.25–0.55	2 p
1316 Kasan	5.82	0.25–0.26	3	1401* Lavonne	3.9338	0.17–0.26	3 p
1317* Silvretta	7.048	0.30–0.45	3 p	1403* Idelsonia	5.458	0.47–1.12	3
1318 Nerina	2.5280	0.06–0.32	3	1404 Ajax	29.38	0.18–0.30	3–
1319 Disa	7.080	0.24–0.27	3	1405 Sibelius	6.051	0.11	3–
1320* Impala	6.1713	0.40–0.52	3 p	1406 Komppa	3.508	0.14–0.20	3
1321 Majuba	5.207	0.22–0.43	3	1407 Lindelöf	31.151	0.34	3 p
1322 Copernicus	3.967	0.04–0.22	2	1409 Isko	11.6426	0.20	2
1323* Tugela	19.50	0.18–0.25	3	1411 Brauna	4.90	0.15	3
1324* Knysna	2.5538	0.08–0.10	3	1412* Lagrula	5.882	0.30–0.44	3
1325 Inanda	20.52	0.12	2 A	1413 Roucarie	6.357	0.50	3
1326 Losaka	6.900	0.03	2	1415 Malautra	>12.	>0.03	1
1328 Devota	17.49	0.20	2–	1416 Renauxa	8.700	0.11–0.40	3
1329 Eliane	106.	0.18–0.30	2–	1418 Fayeta	63.641	0.15–0.24	2+
1330 Spiridonia	9.67	0.08–0.16	3	1419 Danzig	8.1202	0.81–0.92	3 p
1331* Solvejg	19.30	0.42–0.44	2+	1420* Radcliffe	4.792	0.19–0.21	3–
1332 Marconia	19.16	0.30	3 p	1421* Esperanto	21.982	0.15	3–
1333 Cevenola	4.877	0.57–1.1	3 p	1422* Strömghenia	3.500	0.24–0.29	2 W
1334 Lundmarka	6.250	0.70	3–p	1423* Jose	12.307	0.68–0.96	3 p
1335* Demoulina	74.86	0.78–0.78	2+	1424 Sundmania	93.73	0.42	2+ p
1336 Zeelandia	15.602	0.50–0.61	3	1425 Tuorla	7.75	0.17–0.40	3
1337 Gerarda	12.52	0.23	2	1426 Riviera	4.4044	0.30–0.31	3
1338 Duponta	3.85453	0.23–0.26	3 B	1427* Ruvuma	4.797	0.29–0.36	3
1339 Désagneauxa	9.380	0.45–0.48	3 p	1428 Mombasa	16.67	0.15–0.25	2+
1340 Yvette	3.525	0.16	2	1429 Pempa	>20.	>0.3	1
1341 Edmée	23.745	0.20–0.60	2+	1430 Somalia	6.913	0.40–0.45	3 p
1342 Brabantia	4.1754	0.17–0.21	3	1431 Luanda	4.141	0.77–1.00	3–
1343* Nicole	14.76	0.38–0.42	3–	1432 Ethiopia	9.8458	0.40	3 p
1344 Caubeta	3.1220	0.16–0.25	3 B?	1433 Geramtina	>14.	0.07	2–
1345* Potomac	11.41	0.22–0.24	3	1434 Margot	8.17	0.52	3
1346 Gotha	2.64067	0.10–0.16	3–	1436 Salonta	8.870	0.17–0.33	3 p
1347 Patria	29.5	0.12	2	1437* Diomedes	24.49	0.34–0.70	3–
1348* Michel	8.095	0.43–0.47	3	1438 Wendeline	41.98	0.23	2–
1349* Bechuana	15.692	0.29–0.30	3–p	1439* Vogtia	12.898	0.33	3
1350 Rosselia	8.140	0.3 –0.54	3 p	1440 Rostia	9.448	0.25	2 W
1351* Uzbekistania	73.9	0.34–0.34	2	1443* Ruppina	5.880	0.27–0.35	3
1352* Wawel	16.97	0.44–0.44	3 p	1444 Pannonia	10.756	0.16–0.57	3
1353* Maartje	22.930	0.25–0.46	3 p	1446 Sillanpää	9.6602	0.55–0.71	3 p
1354 Botha	4.	0.21	1+	1447 Utra	257.	0.63	2 T0
1355 Magoeba	2.9712	0.06–0.22	3 B?	1448* Lindbladla	10.969	0.22–0.22	3–
1356 Nyanza	12.422	0.28	3	1449* Virtanen	30.495	0.08–0.74	3–p
1357 Khama	15.692	0.34	2 W	1450 Raimonda	12.66	0.57	2 p
1359 Prieska		0.04–0.05	N	1451 Granó	138.00	0.06–0.65	2+
1360 Tarka	8.87	0.43–0.73	3 p	1452 Hunnia	17.2	>0.34	2
1361* Leuschneria	12.0893	0.19–0.75	2	1453 Fennia	4.4121	0.10–0.20	3 B
1362 Griqua	6.907	0.23–0.25	3	1454* Kalevala		0.37	N
1363* Herberta	3.015	0.12	3–	1455 Mitchellia	118.7	0.60	2+
1364 Safara	7.25	0.36	3–	1456 Saldanha	19.035	0.09–0.26	3–
1365* Henyey	18.986	0.23–0.32	2	1457 Ankara	31.8	0.21	2
1366 Piccolo	16.57	0.24–0.33	2 p	1458 Mineura	36.	0.04	1
1367 Nongoma	94.8	0.3 –0.83	1+	1459 Magnya	4.678	0.57–0.84	3 p
1368 Numidia	3.64	0.35	3 p	1460* Haltia	3.59	0.32	3
1369* Ostanina	8.4001	0.3 –1.11	3	1461 Jean-Jacques	16.56	0.09	2
1370 Hella		0.17		1462 Zamenhof	10.4	0.15–0.30	2
1372 Haremari	15.25	0.12	2	1463* Nordenmarkia	5.918	0.17–0.17	3–
1373 Cincinnati	5.28	0.11–0.19	2 A	1464 Armisticia	7.50	0.54	3 p
1374* Isora	36.699	0.12	2+	1465* Autonoma	4.88	0.13	2 1A
1375* Alfreda	19.14	0.05–0.17	3–	1467* Mashona	9.76	0.24–0.31	3
1376 Michelle	5.9748	0.03–0.20	3	1468 Zomba	2.773	0.3 –0.36	3
1377 Roberbauxa	7.3627	0.22–0.24	3	1469 Linzia	22.215	0.07–0.09	3
1378 Leonce	4.3250	0.49–0.63	3 p	1470* Carla	6.15	0.24–0.25	3
1379* Lomonosowa	24.488	0.45–0.63	3 p	1471 Tornio	6.60	0.07–0.20	3
1380 Volodia	>8.	0.15	1+	1472 Muonio	8.706	0.34–0.48	3 p
1382 Gerti	3.082	0.20–0.36	3 p	1473* Ounas	139.1	0.10–0.6	3 T+
1383 Limburgia	>5.	0.07		1474 Beira	4.184	0.15–0.24	3
1384 Kniertje	9.807	0.11–0.33	2	1476 Cox	3.851	0.13	2 W
1385 Gelria		0.36	N	1477 Bonsdorffia	7.8	0.32	2
1386 Storeria	8.67	1.3 –1.40	3 p	1478 Vihuri	19.5	0.23	1
1387 Kama	50.07	0.54–0.57	3	1479* Inkeri	660.	1.30	2+ T
1388 Aphrodite	11.9432	0.34–0.65	3 p	1480* Aunus	4.646	0.19–0.32	2+
1389 Onnie	22.5	0.34	2 p	1481* Tübingia	>24.	0.20	2
1390 Abastumani	17.100	0.15	2	1482 Sebastiana	10.489	0.57–0.78	3 p
1391 Carelia	S 5.87822		p Ns	1483 Hakoila	>12.	0.05	1
1392 Pierre	18.	0.09	2	1484 Postrema	12.1923	0.22–0.23	3–p
1393* Sofala	S 16.5931	0.48	2 p	1486 Marilyn	4.566	0.42–0.48	3 p
1394 Algoa	2.768	0.20–0.21	3	1487* Boda	11.025	0.21–0.28	3
1396* Outeniqua	3.08158	0.41–0.51	3 p	1488* Aura	99.7	0.23–0.32	3
1397 Umtata	30.	0.13	1	1489 Attila	11.28	0.42	3

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1490 Limpopo	6.647	0.15–0.26	3 p	1580 Betulia	6.1324	0.20–0.70	3 p 3
1492 Oppolzer	3.7702	0.10–0.12	3–	1582 Martir	9.84	0.31–0.36	2
1493 Sigrid	43.296	0.38–0.6	2 p	1583* Antilochus	31.54	0.09–0.11	3
1494 Savo	5.35011	0.38–0.63	3 p	1584* Fuji	14.880	0.17–0.29	3
1495 Helsinki	5.33116	0.61–0.83	3 p	1585 Union	9.38	0.22	2
1496 Turku	6.47	0.51	3– p	1586 Thiele	3.086	0.14–0.38	3
1497 Tampere	3.30	0.20	2 W	1587* Kahrstedt	7.930	0.12–0.19	2+
1498 Lahti	58.	0.8	1+	1589 Fanatica	2.58	0.16–0.18	3
1499* Pori	3.3557	0.12–0.34	3	1590 Tsiolkovskaja	6.731	0.10–0.4	3
1500 Jyväskylä	8.82750		p Ns	1591* Baize	7.78	0.26–0.37	2+
1501 Baade	15.132	0.19–0.40	2	1592 Mathieu	28.46	0.50	2+ p
1502 Arenda	45.8	0.4	2	1593* Fagnes	25.25	0.30–0.47	3–
1503 Kuopio	9.957	0.65–0.90	3 p	1594 Danjon	>12.	>0.03	1
1504 Lappeenranta	15.190	0.22–0.29	2+	1595 Tanga	11.05	0.35	3–
1505 Koranna	4.451	0.53–0.70	3	1596* Itzigsohn	39.722	0.25–0.41	2
1506* Xosa	292.	0.42–0.70	2+ T0	1597* Laugier	8.0199	0.68–0.71	3 p
1507* Vaasa	34.07	0.15–0.24	3	1598 Paloque	5.949	0.30–0.33	3–
1508 Kemi	9.196	0.25–0.55	3 p	1599 Giomus	6.46	0.04–0.40	1
1509 Esclangona	3.25283	0.11–0.35	3 B	1600 Vyssotsky	3.2011	0.13–0.28	3 p
1510 Charlois	5.866	0.18–0.23	2	1601 Patry	5.92	0.17–0.60	3
1511 Daléra	3.880	0.14–0.18	3–	1602 Indiana	2.601	0.12–0.19	3
1512 Oulu	132.3	0.33	2+ T?	1603* Neva	6.4249	0.22–0.25	2
1513 Mátra	>24.	>0.1	1	1604 Tombaugh	7.047	0.16–0.35	2+
1514 Ricouxa	10.438	0.62	3 p	1605 Milankovitch	11.60	0.12–0.14	2
1515 Perrotin	13.965	0.19	3–	1606* Jekhovsky	165.946	0.31	2 W
1516* Henry	17.370	0.04–0.54	2	1607 Mavis	6.1339	0.50–0.53	3 p
1517 Beograd	6.943	0.18–0.23	2	1609 Brenda	19.46	0.16–0.26	2
1518 Rovaniemi	5.249	0.25–0.26	3 p	1611* Beyer	13.29	0.12–0.35	2+
1520 Imatra	18.635	0.27–0.35	3–	1612 Hirose	12.295	0.25	2 W
1521 Seinäjoki	4.32	0.15	3 p	1613 Smiley	80.61	0.29–0.30	2+
1522 Kokkola	5.83	0.29	3	1614* Goldschmidt	8.873	0.14–0.14	2– p
1523* Pieksämäki	5.3202	0.28–0.5	3	1615 Bardwell	>18.	>0.2	1 D
1524 Joensuu	9.276	0.33	3	1616 Filipoff	5.652	0.17	3
1525* Savonlinna	14.634	0.50–0.52	2	1617 Alschmitt	7.062	0.39–0.52	3
1527* Malmquista	14.077	0.42–0.54	3 p	1618* Dawn	43.19	0.38–0.65	2+ p
1528 Conrada	6.321	0.41–0.49	3 p	1619 Ueta	2.720	0.32–0.44	3 p
1529* Oterma	8.956	0.12–0.18	3	1620 Geographos	5.22204	1.02–2.03	3 p
1530* Rantaseppä	3.5258	0.41	3	1621* Druzhba	99.20	0.75–0.75	3 p T–
1531 Hartmut	25.57	0.21–0.26	2+	1622* Chacornac	12.206	0.21–0.25	2
1532 Inari	25.	0.09	1+	1623 Vivian	20.5209	0.85	3– p
1533 Saimaa	7.08	0.18–0.26	3	1625 The NORC	13.959	0.06–0.16	3–
1534 Näsi	7.94	0.22–0.51	3– p	1626* Sadeya	3.420	0.07–0.22	3
1535 Päijänne	8.8448	0.50	3	1627 Ivar	4.795	0.25–1.40	3 p
1536 Pielinen	66.22	0.75–0.85	3	1628 Strobel	9.52	0.20–0.22	2
1537 Transylvania	>12.	>0.15	1	1629 Pecker	8.2166	0.08	2 A
1540* Kevola	20.082	0.23–0.33	3–	1630 Milet	32.55	0.37	2 p
1541 Estonia	10.1	0.13	2–	1631 Kopff	6.683	0.41	3
1542 Schalén	7.516	0.49	3	1632 Sieböhme	56.65	0.44–0.47	2
1543 Bourgeois	2.48	0.03	1	1633* Chimay	6.5911	0.31–0.58	3 p
1544 Vinterhansenia	13.77	0.15–0.18	2	1634 Ndola	64.23	0.4	2 p
1545 Thernöe	17.20	0.76	3 p	1635 Bohrmann	5.864	0.25–0.50	3 p
1546 Izsák	7.350	0.31	3 p	1636 Porter	2.9658	0.22–0.24	3
1547 Nele	7.100	0.18–0.45	3– p	1638* Ruanda	4.2397	0.10–0.10	3
1548 Palomaa	7.4961	0.50	3 p	1639 Bower	12.5	0.15–0.38	2
1549 Mikko	11.49	0.03	1+	1640 Nemo	5.0	0.52	3
1550 Tito	54.2	0.16–0.40	2	1641 Tana	7.95	0.32–0.33	3– p
1551 Argelander	4.061	0.41	2 p s	1642 Hill	6.056	0.21–0.25	3
1552 Bessel	8.996	0.29	3 p	1643* Brown	5.932	0.48–0.50	3 p
1553 Bauersfelda	51.191	0.26	2 W	1644 Rafita	6.800	0.13–0.31	2
1554 Yugoslavia	3.8879	0.64–0.74	3 p	1645 Waterfield	4.861	0.18–0.20	3
1556 Wingolfia	10.	0.15	2	1646 Rosseland	69.2	0.13	2
1557 Roehla	5.67899		p Ns	1647* Menelaus	17.74	0.15–0.32	3–
1558 Järnefelt	18.22	0.40	2	1648* Shajna	6.414	0.63–0.69	3 p
1559* Kustaanheimo	4.302	0.23–0.29	3 p	1650 Heckmann	14.893	0.06–0.16	3
1560 Strattonia	18.423	0.18	3	1651 Behrens	34.34	0.16	2
1561 Fricke	15.15330		p Ns	1652 Hergé	16.36	0.42	3–
1562* Gondolatsch	8.78	0.30–0.4	3–	1653 Yakhontovia	15.41	0.03	2
1563 Noël	3.5495	0.14–0.18	3	1654* Bojeva	10.5559	0.27	2
1564 Srbija	9.135	0.17–0.37	3	1655 Comas Solá	20.456	0.20–0.22	3
1565* Lemaître	11.403	0.04	2 A	1656 Suomi	2.583	0.11–0.20	3
1566 Icarus	2.2726	0.05–0.22	3 p	1657 Roemera	34.0	0.09–0.15	2
1567 Alikoski	16.405	0.16	3	1658 Innes	3.191	0.22–0.25	3
1568 Aisleen	6.683	0.31–0.41	3 p	1659 Punkaharju	5.01	0.26–0.43	3 p
1572 Posnania	8.048	0.32–0.38	3 p	1660 Wood	6.8090	0.14–0.26	3
1573 Väisälä	252.	0.76	2 T?	1661 Granule	>24.	0.15	2
1574 Meyer	12.64	0.12	2	1662 Hoffmann	8.784	0.26	3
1575* Winifred	125.	1.20–1.20	3 T0	1663 van den Bos	740.	0.80	3– T0
1576 Fabiola	6.7	0.2	2 P	1664 Felix	3.3454	0.38	3
1577 Reiss	4.5050	0.18–0.20	3	1665 Gaby	66.	0.27	2 p
1578 Kirkwood	12.518	0.05–0.22	2	1666 van Gent	4.16504	0.23–0.42	3

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1667 Pels	3.268	0.20-0.42	3	1760 Sandra	6.5668	0.42	3
1669 Dagmar	>12.	>0.15	1	1761 Edmondson	4.208	0.29	3
1670 Minnaert	3.528	0.23-0.25	3	1762 Russell	12.797	0.46	3-
1671 Chaika	3.7718	0.18-0.20	3	1763 Williams	>36.	>0.3	2
1672* Gezelle	40.72	0.56-0.56	3 p	1764* Cogshall	3.62417	0.20-0.22	3
1674 Groeneveld	8.1	0.19	2	1765 Wrubel	5.260	0.33	3
1675 Simonida	5.2885	0.16-0.65	3	1766* Slipher	7.677	0.19-0.20	2 W
1676 Kariba	3.1673	0.51-0.65	3 p	1768 Appenzella	5.1839	0.53	3 p
1677 Tycho Brahe	3.89	0.38	2+	1770 Schlesinger	2.88036	0.25-0.31	3 B?
1678 Hveen	5.987	0.07	2	1771 Makover	11.26	0.25	3
1679 Nevanlinna	17.92	0.16	3-	1772* Gagarin	10.96	0.24-0.41	2 p
1680 Per Brahe	3.428	0.10-0.17	3	1774 Kulikov	3.83079		p Ns
1681 Steinmetz	8.99917	0.42	3	1775 Zimmerwald	122.	0.6	2+
1682* Karel	3.37485	0.47-0.47	3 p	1777 Gehrels	2.83552	0.21-0.27	3
1683 Castafiore	13.931	0.66	2+	1778* Alfén	4.82	0.36-0.40	3-
1684 Iguassú	9.142	0.15	2 W	1780 Kippes	18.0	0.23	2
1685 Toro	10.1995	0.47-1.80	3 p	1781 Van Biesbroeck			2
1687 Glarona	6.3	0.75	3 p	1782* Schneller	11.86	0.71	1 DAW
1688* Wilkens	7.248	0.23-0.34	3	1783 Albitskij	>12.	0.4	2
1689* Floris-Jan	145.	0.02-0.4	3 T?	1785 Wurm	3.2693	0.28-0.30	3 p
1690* Mayrhofer	22.194	0.30-0.45	2	1786 Raahe	18.72	0.48	3
1691 Oort	10.2705	0.38	3 p	1788 Kiess	11.034	0.25-0.30	2 W
1692 Subbotina	9.2457	0.30	3	1789 Dobrovolsky	4.812	0.11-0.70	3 p
1693 Hertzsprung	8.825	0.45	3	1790 Volkov	10.7419	0.09-0.14	3
1694 Kaiser	13.02	0.14-0.32	3	1791* Patsayev	19.809	0.28	3
1695 Walbeck	5.1607	0.20-0.34	3	1792 Reni	15.95	0.54	3-p
1696 Nurmela	3.1587	0.33-0.42	3	1793 Zoya	5.753	0.40	2+p
1699 Honkasalo	11.1159	0.15-0.32	3-	1794 Finsen	12.346	0.38-0.58	2
1700 Zvezdara	9.114	0.10-0.13	3	1795 Woltjer	12.102	0.36	2+
1701 Okavango	13.204	0.32-0.45	2	1796 Riga	22.226	0.10-0.40	2
1702 Kalahari	21.153	0.12-0.20	3	1797 Schaumasse	6.1125	0.73-0.75	3
1703* Barry	107.1	0.46-0.50	3 p T?	1799 Koussevitzky	6.318	0.25-0.40	3
1704 Wachmann	3.314	0.40	3 p	1800 Aguilar	2.478	0.11	3
1705* Tapio	54.8	0.29-0.44	2	1801 Titicaca	3.2106	0.50	3 p
1706 Dieckvoss	2.58944	0.12	3-	1802* Zhang Heng	3.162	0.27-0.37	2+
1707 Chantal	>10.	>0.2	PN	1803 Zwicky	27.1	0.08	1
1708 Pólit	7.520	0.30-0.50	3 p	1804 Chebotarev	4.026	0.41	3
1709 Ukraina	7.28	0.45-0.62	3 p	1805 Dirikis	23.0	0.45	2 p
1710 Gothard	4.939	0.31-0.32	3	1806 Derice	3.2240	0.07-0.19	3
1712 Angola	11.527	0.38	3	1807* Slovakia	308.6	0.25-1.10	3 TO
1714 Sy		0.95	N	1808* Bellerophon	3.820	0.19	2
1715* Salli	11.087	0.22-0.61	3 p	1810 Epimetheus	28.61	0.04	2
1716* Peter	11.514	0.48-0.52	3 p	1811* Bruwer	17.565	0.25-0.35	3-
1717 Arlon	5.1484	0.07-0.12	3 B	1813* Imhotep	17.994	0.42-0.80	2+
1718 Namibia	8.6028	0.13-0.25	3	1814 Bach	7.23954		p Ns
1719 Jens	5.87	0.50-0.55	3 p	1815 Beethoven	54.	0.2	1
1720 Niels	9.976	0.15	1	1816 Liberia	3.086	0.19-0.39	3 p
1722 Goffin	28.8	0.6 -0.63	2	1817 Katanga	8.481	0.22-0.42	3
1723* Klemola	6.2545	0.16-0.41	3 p	1819 Laputa	9.8004	0.51	3 p
1724 Vladimir	12.582	0.14-0.24	2+	1820 Lohmann	14.0554	0.40-0.55	3 p
1725 CrAO	21.45	0.08-0.28	2	1822 Waterman	7.581	0.51	3
1726 Hoffmeister	11.706	0.40	2 W	1823 Gliese	4.4864	0.23-0.27	3
1727 Mette	2.98109	0.19-0.38	3 B	1825 Klare	4.744	0.70-0.90	3 p
1728 Goethe Link	81.	0.39	2	1826 Miller	30.049	0.08	2
1729* Beryl	4.8888	0.14-0.20	3	1827 Atkinson	3.757	0.22	3-
1730 Marceline	3.837	0.59-1.00	3 p	1828 Kashirina	14.838	0.42	3-
1731 Smuts	12.5	0.08	2	1829 Dawson	4.254	0.05-0.28	3
1732 Heike	4.742	0.27-0.32	3	1830 Pogson	2.56999	0.10-0.18	3 M
1733 Silke	7.89457		p Ns	1831 Nicholson	3.228	0.24-0.29	3
1734 Zhongolovich	7.171	0.21	3	1832 Mrkos	13.64	0.18	3-
1735* ITA	12.599	0.27-0.40	3-p	1833* Shmakova	3.93	0.38-0.58	3 p
1736 Floirac	6.775	0.08-0.25	3	1834 Palach	3.139	0.13-0.16	2
1737* Severny	14.11	0.14-0.17	2	1835 Gajdariya	6.3276	0.50	3 p
1738 Oosterhoff	4.4486	0.48-0.54	3 p	1836 Komarov	8.8015	0.39-0.56	3
1739 Meyermann	2.8219	0.17-0.22	3	1837* Osita	3.81862	0.48-0.59	3 p
1741 Giclas	2.943	0.10-0.15	3	1838* Ursa	16.141	0.76-0.80	3 p
1742 Schaifers	8.56	0.80-1.46	3 p	1840 Hus	4.780	0.85	2 p
1743 Schmidt	17.45	0.36	3 p	1841 Masaryk	7.53	0.52	2+p
1746 Brouwer	19.8	0.21-0.35	2 p	1842 Hynek	3.9410	0.07-0.17	3
1747 Wright	5.2896	0.53-0.61	3 p	1844 Susilva		0.47	N
1748 Mauderli	6.00	0.1 -0.12	3	1845* Helewald	7.2786	0.15-0.28	3-
1749* Telamon	16.975	0.06-0.10	3-	1847 Stobbe	5.617	0.27-0.35	3
1750 Eckert	375.	0.87	3-p T	1848 Delvaux	3.637	0.57-0.69	3
1751* Herget	3.9397	0.31	3	1849 Kresák	19.101	0.19	2 W
1753 Mieke	8.8	0.2	2 p P	1850* Kohoutek	3.68	0.31	2 W
1754 Cunningham	7.7416	0.08-0.17	3	1853* McElroy	8.016	0.18-0.30	3-
1756 Giacobini	3.8527	0.21	3	1854 Skvortsov	78.5	0.56	2
1757 Porvoo	4.89	0.30	3	1855 Korolev	4.6568	0.75-0.76	3 p
1758* Naantali	5.4699	0.44-0.46	3 p	1857 Parchomenko	3.1177	0.22-0.27	3 B?
1759 Kienle	29.25	0.30	2	1858* Lobachevskij	5.413	0.22-0.48	2+p

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1859* Kovalevskaya	11.1140	0.13–0.44	2+	1979 Sakharov	7.5209	0.12–0.22	3 B?
1860 Barbarossa	3.255	0.28–0.35	3 p	1980* Tezcatlipoca	7.24612	0.55–1.01	3 p
1862 Apollo	3.065	0.15–1.15	3 p B	1981 Midas	5.220	0.65–0.87	3
1863* Antinous	7.453	0.13–0.33	3 p	1982 Cline	5.78	0.36	3
1864 Daedalus	8.572	0.85–1.04	3	1983* Bok	10.70	0.40–0.46	3–
1865 Cerberus	6.8039	1.48–2.3	3 p	1985 Hopmann	17.480	0.36–0.44	3 p
1866* Sisyphus	2.400	0.02–0.14	3 B	1987 Kaplan	9.453	0.46–0.65	3 p
1867* Deiphobus	58.66	0.10–0.27	3–	1988 Delores	88.152	0.74	2 W
1868* Thersites	10.48	0.14–0.27	3–	1989 Tatry	131.3	0.22–0.50	2 T?
1870* Glaukos	5.986	0.27–0.42	3	1991 Darwin	4.7	0.08	2
1871 Astyanax	6.52	0.13	2–	1992 Galvarino	7.004	0.6	3
1873 Agenor	20.60	0.08	2	1994 Shane	8.220	0.26	3
1874 Kacivelia	15.951	0.21	3–	1995 Hajek	>10.	0.1	1+
1875 Neruda	3.697	0.17	2 W	1996 Adams	3.311	0.28–0.60	3 p
1876 Napolitania	45.63	0.39	2 B?	1997 Leverrier	8.01532		3 p Ns
1877 Marsden	14.4	0.22	2	1998 Titius	6.13	0.20	3
1879* Broederstroom	3.02	0.11–0.12	3	1999 Hirayama	15.63	0.45–0.57	3–
1881* Shao	7.452	0.11–0.15	2	2000 Herschel	130.	0.17–1.16	2 T+
1882 Rauma	25.	0.1	2	2001 Einstein	5.487	0.66–1.02	3 p
1884 Skip	3.079	0.20	3	2002 Euler	5.9929	0.18–0.31	3 p
1885* Herero	7.609	0.21–0.23	2 W	2003 Harding	2.96	0.18	1
1888* Zu Chong–Zhi	15.9	0.28–0.50	2	2004 Lexell	5.4429	0.42–0.51	3
1889* Pakhmutova	17.490	0.49–0.50	3–p	2005 Hencke	10.186	0.08	2
1892 Lucienne	9.31	0.42	2 p	2006 Polonskaya	3.1183	0.08–0.16	3 B
1893 Jakoba	23.9	>0.1	1+	2007 McCuskey	8.611	0.18–0.21	3
1896 Beer	3.3278	0.40	3	2008 Konstitutsiya	11.2692	0.06–0.08	3 3
1897 Hind	2.6336	0.09	2	2009* Voloshina	5.896	0.27–0.40	3–
1900* Katyusha	9.4999	0.63–0.74	3 p	2011 Veteraniya	8.209	0.30	3–
1902 Shaposhnikov	21.2	0.33–0.42	3 p	2012 Guo Shou–Jing	>12.	0.05	1+
1904 Massevitch	5.394	0.30	3–	2013 Tucapel	9.028	0.34	3
1906 Naef	11.009	0.92–0.95	3 p	2014 Vasilevskis	32.16	0.26–0.31	3–
1907 Rudneva	44.	>0.1	1+	2015 Kachuevskaya	42.532	0.76–1.20	3
1909* Alekhin	148.6	0.42–0.45	3 T0	2016* Heinemann	22.96	0.36	2+
1910 Mikhailov	8.88	0.25	2	2017 Wesson	3.4158	0.38–0.60	3
1911* Schubart	11.915	0.22	2	2019 van Albada	2.729	0.13–0.20	2+
1912* Anubis	4.626	0.18–0.47	2 W	2020 Ukko	25.478	0.24	2+
1913* Sekanina	13.97	0.30–0.31	2+	2023 Asaph	3.87	0.05–0.06	2–
1914 Hartbeespoortdam	6.331	0.04	2	2026* Cottrell	4.4994	0.42–0.77	3
1915* Quetzálcoatl	4.9	0.26	2	2028 Janequeo	2.480	0.27	2 W
1916 Boreas	3.4746	0.25–0.35	3	2029* Binomi	3.756	0.51–0.52	2 W
1917* Cuyo	2.6890	0.11–0.41	3	2031* BAM	10.774	0.15	3
1919* Clemence	67.4	0.15–0.60	2 T0	2033 Basilea	6.5287	0.28	3–
1920 Sarmiento	4.048	0.28–0.35	3	2034 Bernoulli	6.248	0.21	2+
1922 Zulu	18.64	0.11	3	2035 Stearns	93.	0.20–0.7	2+
1924* Horus	6.183	0.19–0.24	3	2036 Sheragul	5.4130	0.58–1.50	3 p T
1925* Franklin–Adams	2.978	0.23–0.32	3 p	2037 Tripaxepthalis	2.33	0.10	2 A
1926 Demiddeleer	18.5	0.15	2	2038* Bistro	17.051	0.12–0.12	2–
1927 Suvanto	8.164	0.60–0.63	3 p	2039 Payne–Gaposchkin	27.633	0.24	2 W
1928 Summa	6.8549	0.13–0.18	3 A	2043 Ortutay	7.7475	0.44	3–
1929 Kollaa	2.9887	0.20–0.22	3	2044 Wirt	3.6898	0.12–0.26	3 B
1930 Lucifer	13.056	0.22–0.44	3 p	2046 Leningrad	5.296	0.11	2+
1933 Tinchén	3.671	0.37–0.55	3 p	2047 Smetana	2.4970	0.12–0.16	3 B
1936 Lugano	19.651	0.25–0.31	3	2048* Dwornik	3.677	0.05–0.22	3
1938 Lausanna	2.748	0.12–0.13	3–	2049* Grietje	8.910	0.12–0.12	2
1939 Loretta	25.	0.12	1	2050 Francis	3.069	0.20	2+
1940 Whipple	6.953	0.15–0.25	3	2052 Tamriko	7.462	0.11–0.15	2 3
1941 Wild	9.05	0.36	2	2054* Gawain	11.1098	0.61–1.05	2
1942 Jablunka	8.91158		3 p Ns	2055 Dvořák	4.405	0.17	3–
1943* Anteros	2.86921	0.07–0.10	3 B	2056 Nancy	>15.0	0.08	1
1945* Wesselink	3.546	0.45–0.55	2 p s	2058 Róka	10.04	0.34–0.40	3–
1946* Walraven	10.21	0.6 –0.90	2+ p	2060 Chiron	5.918	0.04–0.09	3
1947 Iso–Heikkilä	5.0158	0.35	2 NA	2061 Anza	11.50	0.3	2
1949* Messina	3.6491	0.32–0.37	3 p	2062* Aten	40.77	0.26–0.26	2 T0
1950 Wempe	16.788	0.97–0.98	3 p	2063 Bacchus	14.904	0.22–0.42	3 p
1951 Lick	5.3016	0.15–0.33	3	2064* Thomsen	4.233	0.62–0.78	3 p
1952 Hesburgh	47.7	>0.18	2	2065 Spicer	18.165	1.00	3
1954 Kukarkin	136.40	0.80	3– T0	2066* Palala	9.732	0.34–0.62	3
1955 McMath	5.574	0.30–0.39	3	2067 Aksnes	17.75	0.24	2 A
1956 Artek	9.4	0.07	1+	2068 Dangreen		0.04	N
1957 Angara	3.67	0.52	3	2069 Hubble	32.52	0.10	3
1958* Chandra	7.070	0.35–0.38	3–	2072 Kosmodemyanskaya	4.4	0.05–0.09	2
1960 Guisan	8.46	0.52	3	2073* Janáček	3.56	0.24–0.42	2 W
1961* Dufour	15.79	0.31–0.35	3–	2074 Shoemaker	2.5328	0.06–0.13	3 B?
1963 Bezovec	18.160	0.15–0.60	3 p	2075 Martinecz	4.755	0.28	2
1965 van de Kamp	>36.	0.5	1	2077 Kiangsu	104.2	0.23–0.3	2+
1967 Menzel	2.835	0.24–0.39	3	2078 Nanking	6.473	0.79–1.19	3
1972 Yi Xing	14.183	0.18	2	2080 Jihlava	2.70876	0.15–0.27	3–
1973 Colocolo	9.988	0.31	2 W	2083 Smither	2.6717	0.08–0.11	3
1977 Shura	7.461	0.34	3	2084 Okayama	4.5470	0.25	3
1978 Patrice	5.88121		3 p Ns	2085 Henan	>24.	>0.25	1

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2086 Newell	78.2	1.0	2 p	2197 Shanghai	5.99	0.16	2
2087* Kochera	6.109	0.37	3	2199 Klef	12.857	0.10-0.13	3
2088 Sahlia	10.37	0.12	2	2200 Pasadena		0.03	2
2089 Cetacea	39.120	0.25-0.40	2	2201 Oljato	>26.	>0.1	2-
2090 Mizuho	5.47	0.30	2+	2203 van Rhijn	30.55	0.38	2
2091 Sampo	71.34	0.38	2	2204 Lylyi	11.063	0.39-0.52	3-
2093* Genichesk	11.028	0.23-0.27	3	2207* Antenor	7.965	0.09-0.19	2+
2094 Magnitka	6.1124	0.80-0.86	3 p	2208 Pushkin	8.405	0.46	2 W
2096* Väinö	3.32	0.06-0.10	2 W	2209 Tianjin	9.47	0.41-0.42	3
2097 Galle	7.310	0.4	2	2210 Lois	2.42	0.16	2 W
2098 Zyskin	3.920	0.08	2 W	2212 Hephaistos	>20.	0.08-0.11	1
2099 Opik	6.4430	0.21-0.7	2	2213 Meeus	2.651	0.19	3-
2100* Ra-Shalom	19.797	0.30-0.55	3 p	2214 Carol	4.987	0.60-0.72	3
2102 Tantalus	2.384	0.07-0.12	2+ B?	2215 Sichuan	3.975	0.38-0.39	3
2103* Laverna	9.249	0.20-0.22	3	2216 Kerch	9.462	0.78	3-
2104 Toronto	8.97	0.26-0.32	3	2217* Eltigen	6.924	0.24-0.35	3-
2105 Gudy	15.795	0.18-0.52	3-	2218* Wotho	4.9267	0.35-0.51	3
2106 Hugo	6.9297	0.55	3	2219 Mannucci		0.3	N
2107 Ilmari	39.577	0.06-0.10	1 W	2221 Chilton	7.445	0.20	2 A
2108* Otto Schmidt	6.90	0.16	2 A	2222 Lermontov	4.344	0.58	3
2109 Dhotel	32.	0.3	1	2223 Sarpedon	22.741	0.11-0.14	2+
2110 Moore-Sitterly	3.34474	0.37-0.50	3 p	2224 Tucson	27.01	0.54	3-
2111* Tselina	6.563	0.17-0.29	3	2228 Soyuz-Apollo	5.3846	0.4 -0.54	3-
2112 Ulyanov	3.041	0.32-0.36	3 p	2233* Kuznetsov	5.031	0.23-0.25	3
2113 Ehrdni	13.2	0.22	1	2234 Schmadel	15.63	0.25	2+
2114 Wallenquist	5.510	0.22-0.30	3	2235 Vittore	32.10	0.21	3
2115* Irakli	29.765	0.34-0.36	2 W	2239 Paracelsus	6.101	0.31	3-
2117 Danmark	16.598	0.54	3-	2241* Alcathous	7.689	0.20-0.25	3
2118 Flagstaff	15.17	0.23-0.35	3-	2242* Balaton	2.7979	0.18	B
2120 Tyumenia	2.769	0.33-0.39	2	2245 Hekatos	20.61	0.21	2+
2121 Sevastopol	2.90640	0.15-0.20	3 B	2246* Bowell	4.992	0.20-0.46	3
2122 Pyatiletka	8.899	0.10	1 W	2249 Yamamoto	31.590	0.14	2 W
2123* Vltava	34.0	0.19-0.21	2	2250 Stalingrad		0.50	N
2126 Gerasimovich	22.951	0.12	2	2251 Tikhov	5.67	0.39	3
2127 Tanya	7.864	0.18	2 W	2253 Espinette	7.442	0.18-0.48	3
2130 Evdokiya	4.354	0.40-0.48	3	2254* Requiem	4.430	0.22-0.26	3
2131 Mayall	2.5678	0.05-0.09	3 B	2257 Kaarina	3.04866	0.13-0.16	3
2132* Zhukov	6.836	0.45-0.58	3-	2258 Viipuri	3.810	0.25-0.33	3
2134 Dennispalm	4.114	0.12-0.27	3-	2259* Sofievka	31.6	0.10	2 A
2136* Jugta	6.4571	0.37-0.45	3	2260* Neoptolemus	8.180	0.03-0.32	3
2137 Priscilla	7.850	0.21	2 W	2261 Keeler	23.10	0.09	2
2139 Makharadze	11.9759	0.34-0.38	3	2263 Shaanxi	41.7	0.36	2-
2140 Kemerovo	9.2	0.18-0.19	2	2264 Sabrina	43.41	0.30	2
2141 Simferopol	14.9508	0.30-0.48	3	2265 Verbaandert	2.990	0.12	W
2142* Landau	19.40	0.28	1 DAW	2266 Tchaikovsky	37.7	0.04-0.09	2
2144 Marietta	5.489	0.40-0.44	3-	2268 Szmytowna	11.260	0.42-0.60	3
2145 Blaauw	12.141	0.18	2+	2269 Efremlana	6.458	0.09	2
2146* Stentor	16.40	0.09-0.10	2	2270 Yazhi	7.78	0.09-0.45	2
2147 Kharadze	14.115	0.52	2 W	2271* Kiso	17.14	0.14	3-
2149 Schwambraniya	5.070	0.24	2 W	2272* Montezuma	8.183	1.08-1.53	3
2150* Nyctimene	6.131	0.58-0.90	3	2274 Ehrsson	78.	0.5	3-
2151 Hadwiger	5.872	0.07-0.38	3	2275 Cuitlahuac	6.2891	1.10	3 p
2152 Hannibal	5.978	0.32	3	2276 Warck	4.054	0.20-0.25	3
2153* Akiyama	12.532	0.26-0.27	2 W	2277 Moreau	>12.	0.08	2-
2156 Kate	5.6228	0.54-0.88	3 p	2281 Biela	4.929	0.09	2 W
2159 Kukkamäki	4.06	0.32	3	2282* Andrés Bello	3.425	0.65	3
2160 Spitzer	5.9		2 N	2283 Bunke	3.96	0.04-0.06	2
2161 Grissom	5.0633	0.27	2+	2284* San Juan	9.18	0.60-0.62	3
2163 Korczak	3.997	0.34	2 W	2285 Ron Helin	>12.	0.10	1+
2164* Lyalya	11.57	>0.15	2 W	2286 Fesenkov	5.404	0.23	2 W
2165 Young			3	2287 Kalmykia	>12.	0.07	2-
2166 Handahl	7.2263	0.11-0.13	3	2288 Karolinum	42.16	0.15-0.40	2+
2167 Erin	5.7186	0.3 -0.53	3	2289 McMillan	2.238	0.08	1 W
2169 Taiwan	7.252	0.17	2 W	2290 Helffrich		0.10	N
2170* Byelorussia	6.768	0.63-0.70	2 W	2291 Kevo	11.971	0.27	3-
2173 Maresjev	11.6	0.42	1	2292 Seili	5.121	0.25-0.42	3
2175 Andrea Doria	4.880	0.25	3	2293* Guernica	6.414	0.40-0.48	3
2177* Oliver	6.11	0.42-0.45	3	2294 Andronikov	3.1529	0.35-0.42	3
2179* Platzeck	5.995	0.24	3	2296 Kugultinov	8.43	0.19-0.23	2+
2180* Marjaleena	7.396	0.25-0.43	2 p	2297 Daghestan	7.75	0.24-0.37	3
2181 Fogelin	14.07	0.57	3	2298* Cindijon	14.506	0.16	3-
2182 Semiot	8.328	0.32	3-	2301* Whitford	14.275	0.35	2 W
2183 Neufang	3.8662	>0.25	3	2302 Florya	>12.	0.05	1
2185* Guangdong	21.089	0.19-0.30	3-	2303 Retsina	10.82	0.39-0.45	3
2186 Keldysh	7.567	0.20	2 3	2304 Slavia	3.14	0.26	2+
2187* La Silla	11.843	0.35-0.6	2	2306 Bauschinger	21.64	0.69-0.79	3 p
2189* Zaragoza	4.92815	0.17-0.91	3	2307 Garuda	29.64	0.32	2+
2193* Jackson	4.7541	0.23-0.24	3	2308 Schilt	9.759	0.42-0.44	3
2195 Tengström	2.82112	0.17-0.45	3	2309 Mr. Spock	6.722	0.56	3
2196 Ellicott	9.0706	0.10-0.12	3-	2310 Olshaniya	16.169	0.46	3-

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Planet	Period	Variation	Note	Planet	Period	Variation	Note
2312* Duboshin	50.78	0.15	2+	2445 Blazhko	3.6197	0.57	3
2313 Aruna	8.90	0.79	3 p	2446 Lunacharsky	3.613	0.41	3
2315 Czechoslovakia	10.0253	0.52	3	2448 Sholokhov	10.061	0.21-0.63	3-
2316 Jo-Ann	33.0	0.33	2- W	2449 Kenos	3.8492	0.14-0.23	3 B?
2317* Galya	2.60	0.22-0.30	2	2450 Ioannisiani	5.650	0.23-0.29	2 W
2319* Aristides	86.787	0.56-0.61	2 W	2451 Dollfus	48.	0.1	1
2320 Blarney	5.097	0.32	3	2453 Wabash	6.878	0.63-0.67	3
2323 Zverev	3.921	0.36-0.39	3	2454 Olaus Magnus	3.804	0.39	3
2324 Janice	23.2	0.19	2-	2455 Somville	2.8287	0.12-0.18	3 p
2328 Robeson	18.632	0.20	2+	2456 Palamedes	7.24	0.05-0.27	3
2331 Parvulesco	32.03	0.50	3	2459 Spellmann	6.533	0.65	2 W
2332 Kalm	22.8	0.39	2	2460 Mitlincoln	3.01	0.03-0.20	3
2333* Porthan	27.784	0.10-0.58	3	2461 Clavel	5.238	0.33	2 W
2334 Cuffey	5.858	0.37	3-	2462* Nehalennia			HNW
2336* Xinjiang		0.12	N	2463 Sterpin	13.44	0.25-0.30	2
2338 Bokhan	>8.	0.05	1	2464* Nordenskiöld	5.209	0.29-0.51	3-
2339 Anacreon	>24.	>0.05	1	2468 Repin	5.122	0.56-0.72	3
2340* Hathor	3.350	0.11-0.11	3	2471* Ultrajectum	3.875	0.21-0.23	2 W
2341 Aoluta	3.0	0.25-0.28	3	2472 Bradman	5.894	0.11	1
2343* Siding Spring	2.10659	0.15-0.19	3 M	2474* Ruby	7.42	0.11-0.22	3
2344 Xizang	13.	0.39	2 W	2476 Andersen	8.241	0.07	1
2345 Fučik	17.12	0.10-0.39	2	2477 Biryukov	>24.	0.1	1
2346* Lilio	3.031	0.20-0.31	3 3	2478 Tokai	25.885	0.41-0.90	3 B
2347 Vinata	4.4835	0.32	3	2480 Papanov	3.095	0.07-0.13	3
2348 Michkovitch	>28.	>0.12	2	2481 Bürgi	30.086	0.20	2 W
2349 Kurchenko	8.622	0.06	2 W	2483* Guinevere	14.733	0.89-1.38	3 p
2351 O'Higgins	4.7889	0.50	3	2484 Parenago	3.43311	0.28-0.34	3
2352 Kurchatov	>12.	0.3	2	2486 Metsähovi	4.4518	0.04-0.13	3 B?
2354 Lavrov	12.961	0.35	2 W	2490 Bussolini	>24.	0.1	1
2356 Hirons	21.782	0.13	2 W	2491 Tvashtri	4.157	0.06-0.24	2+
2357 Phereclos	14.394	0.05-0.18	2+	2494* Inge	6.804	0.14-0.92	3
2358 Bahner	10.848	0.33-0.43	3 p	2495 Noviomagum	6.645	1.06	3 p
2363* Cebriones	20.05	0.15-0.22	3	2498 Tsesevich	3.059	0.15	2 W
2364 Seillier	12.284	0.10-0.26	2+	2500 Alascattalo	2.751	0.15-0.19	3-
2365 Interkosmos	6.1548	0.23-0.25	3	2501* Lohja	3.8084	0.26-0.45	3 p
2368 Beltrovata	5.9	0.84-1.05	2	2504 Gaviola	8.751	0.28	2 W
2371* Dimitrov	6.40	>0.05	1+ 1W	2507 Bobone	4.9860	0.22	3-
2372* Proskurin	18.184	0.42-0.60	2 W	2508 Alupka	17.7	0.35	2-
2374 Vladvysotskij	5.398	0.48	2 W	2509* Chukotka	17.7	0.03	2-
2375* Radek	16.875	0.17-0.20	3	2510 Shandong	5.9463	0.44	3 p
2378 Pannekoek	11.8806	0.08-0.14	2 3	2511 Patterson	4.144	0.65-0.8	3
2379 Heiskanen	3.76	0.17-0.23	3	2512* Tavastia	7.296	0.26-0.31	3
2380 Heilongjiang	11.237	0.22	3	2513 Baetslé	6.0792	0.32	3
2381 Landi	3.989	0.75-1.04	3 p	2518 Rutllant	3.651	0.12	3
2382 Nonie	15.085	0.42-0.49	3 p	2519 Annagerman	12.982	0.14	2 W
2384 Schulhof	3.294	0.43	3 p	2520 Novorossiysk	9.190	0.26	2 W
2385 Mustel	4.5940	0.55	3	2521 Heidi	12.	0.02	1
2387 Xi'an	4.298	0.24	2 W	2522* Triglav	6.774	0.29	3-
2388* Gase	26.30	0.48	1 DAW	2523 Ryba	9.390	0.18	3
2390* Nežárka	11.349	0.29-0.42	3-	2524 Budovicium	10.0819	0.17	3
2391 Tomita	7.9533	0.14-0.15	3	2525 O'Steen	3.55	0.19-0.25	2
2393 Suzuki	9.31	0.40	2+ p	2526 Alisay	4.082	0.18	2 W
2395 Aho	7.88033		p Ns	2527* Gregory	6.1025	0.23-0.34	3
2397 Lappajärvi	9.05	0.40	2	2528 Mohler	6.49130		p Ns
2398 Jilin	3.17767	0.06-0.12	3	2529 Rockwell Kent	7.	0.04	1
2402* Satpaev	8.1127	0.21-0.38	3	2531* Cambridge	12.20	0.20-0.21	2
2406 Orelskaya	6.110	0.14	2 W	2532 Sutton	51.362	0.02	1
2408 Astapovich	3.67381	0.16-0.17	3	2534 Houzeau	53.237	0.22	2 W
2415 Ganesa	8.	0.15	2	2535 Hämeenlinna	3.23106	0.10	3 NB
2416 Sharonov	10.82	0.05	1	2536 Kozyrev	7.188	0.52	2+
2417 McVittie	4.934	0.42	3	2537* Gilmore	4.23	0.34-0.35	2 W
2419 Moldavia	2.412	0.14	2	2540* Blok	19.20	0.07	1+ DAW
2420 Čiurlionis	12.84	0.48	2	2543 Machado	31.72	0.15	2
2421* Nininger	6.4058	0.18-0.37	3-	2544* Gubarev	4.750	0.38-0.42	3
2422 Perovskaya	>40.	>0.17	2	2545 Verbiest	10.	0.06	1+
2423 Ibarruri	139.79	0.27-0.74	3 T-	2546 Libitina	132.71	0.35	2+
2425 Shenzhen	14.715	0.80	3 p	2552* Remek			HNW
2426 Simonov	5.811	0.40	3	2554 Skiff	25.6	0.32	1
2429 Schürer	6.66	0.12-0.77	3-	2556* Louise	3.808	0.35-0.39	3
2430* Bruce Helin	128.	0.60-0.61	2 p T0	2557 Putnam	35.68	0.23	N
2431* Skovoroda	3.13	0.21	2 W	2560* Siegma	10.309	0.07-0.10	2 W
2432* Soomana	3.206	0.36-0.40	3-	2563 Boyarchuk	11.04	0.11	2
2433 Sootiyo	7.2298	0.4 -0.54	2+	2564* Kayala	2.95	0.39	2 W
2436 Hatshepsut	8.983	0.47	2 W	2565 Gröglér	2.150	0.41	2 W
2437 Amnestia	85.	0.45	2 T0	2566 Kirghizia	4.451	0.55	3
2438 Oleshko	3.227	0.19	3	2567 Elba	9.7785	0.25	3
2441 Hibbs	5.926	0.16	2 W	2568 Maksutov	7.5930	0.47-0.49	3
2442* Corbett	>10.	0.12-0.19	2	2569 Madeline		0.1	3-
2443 Tomeileen	3.974	0.10-0.13	2	2571 Geisei	7.823	0.50	3-
2444 Lederle	17.85	0.18-0.45	2+	2572 Annschnell	6.328	0.76	2+

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2573 Hannu Olavi	4.9355	0.35–0.37	3	2702 Batrakov	7.654	0.35	2 W
2574 Ladoga	27.240	0.26	3–	2703 Rodari	5.5	0.20	1
2575* Bulgaria	9.480	0.43–0.48	3	2704* Julian Loewe	2.6382	0.15–0.35	3 p
2576 Yesenin	271.974	0.34	2 W	2705 Wu	150.5	1.2	3– T
2577 Litva	2.81258	0.14–0.36	3 M	2706 Borovský	63.846	0.61	2 W
2579 Spartacus	3.63599	0.25–0.39	3 p	2707 Ueferji	5.286	0.16	2 W
2581* Radegast	8.753	0.79–0.82	3 p	2708 Burns	5.315	0.52	3
2582* Harimaya–Bashi	7.238	0.21–0.24	3	2709* Sagan	5.2564	0.09–0.63	3 p
2584 Turkmenia	6.372	0.22	2 W	2710 Veverka	15.732	0.42	2 W
2587 Gardner	11.631	0.48	2 W	2713* Luxembourg	3.579	0.47–0.64	3– p
2590 Mourão	15.59	0.46–0.49	3	2714 Matti	9.	0.25	2
2591 Dworetzky	12.77	0.45	2	2715 Mielikki	33.62	0.54–0.55	3–
2593* Buryatia	15.085	0.15–0.16	2 W	2717 Tellervo	4.213	0.40	2+
2594 Acamas	25.954	0.50	2 W	2722* Abalakin	9.23	0.28	2 W
2595 Gudiachvili	4.72	0.5	1	2725 David Bender	9.956	0.37	3– p
2596* Vainu Bappu	16.450	0.19–0.22	2 W	2726* Kotelnikov	4.9075	0.21–0.26	2
2599 Veseli	18.54	0.20–0.33	2 A	2729* Urumqi	3.127	0.19–0.35	3
2601 Bologna		0.10	N	2730* Barks	6.084	0.26–0.28	3
2602 Moore		0.30	N	2731* Cucula	61.55	0.15–0.40	2+
2604* Marshak	>30.	>0.17	2	2734 Hašek	8.208	0.17	2 T?
2606 Odessa	8.2426	0.72–0.80	3 p	2735 Ellen	159.	1.50	3– T0
2608* Seneca	8.	0.4 –0.5	2	2737 Kotka	12.157	0.30	2+
2609 Kiril–Metodi	4.9433	0.80	3	2740 Tsoj	22.042	0.89	2 W
2610* Tuva	4.2666	0.57–0.60	3	2741 Valdivia	4.096	0.28–0.47	2+ p
2612 Kathryn	7.71	0.43–0.44	3	2744 Birgitta	8.994	0.18–0.4	3
2615 Saito	14.960	0.38	2 W	2745 San Martin		0.04	N
2616 Lesya	9.2168	0.43–0.51	3	2747 Český Krumlov	438.710	0.63	2 W
2617* Jiangxi	11.7743	0.28–0.57	3 p	2751 Campbell	2.747	0.08	3–
2620 Santana	3.392	0.56	2 W	2752 Wu Chien–Shiung	36.343	0.28	2 W
2621 Goto	22.006	0.32	3	2754 Efimov	2.44967	0.13–0.16	3 B
2622 Bolzano	3.057	0.34	2 W	2757 Crisser	8.0882	0.28	2
2623 Zech	2.7401	0.22	NB	2759* Idomeneus	32.38	0.19–0.27	2+ B?
2624* Samitchell	12.41	0.51–0.57	3	2760 Kacha	13.0	0.06	3
2625 Jack London	2.988	0.22	3–	2762 Fowler	5.295	0.63–0.64	3–
2626 Belnika	7.234	0.11	3–	2763 Jeans	7.80	0.13–0.18	3
2627* Churyumov	7.66	0.61–0.84	3– W	2764 Moeller	5.954	0.51	2 W
2629 Rudra	123.171	0.58	2 W	2768 Gorky	4.507	0.51	3
2630 Hermod	19.4283		p Ns	2769 Mendeleev	8.229	0.48	2 W
2632 Guizhou		0.10	N	2770* Tsvet	7.82	0.47–0.52	3
2635* Huggins	9.400	0.10–0.59	3–	2771 Polzunov	11.66	0.15	2
2636 Lassell	5.012	0.27	3–	2772* Dugan	235.	1.14	2+ T0
2637 Bobrovnikoff	4.7939	0.13	3	2774 Tenojoki	11.2	0.30	2+
2639 Planman	89.5	0.40	2+ T0	2776 Baikal		0.04	N
2640 Hållström	22.9	0.15	1	2778 Tangshan	3.461	0.25	3
2641 Lipschutz	21.62	0.24	3–	2779 Mary	3.36	0.10	2
2642 Vésale	5.566	0.12–0.39	3	2781 Kleczek	7.306	0.30	3
2645* Daphne Plane	8.360	0.09–0.32	3–	2783 Chernyshevskij	9.455	0.23	3–
2647 Sova	9.366	0.23–0.35	3	2784 Domeyko	5.98	0.15	2
2648 Owa	3.5641	0.20–0.35	3	2785* Sedov	5.49	0.31–0.45	3– p
2649 Oonga	7.786	0.28–0.46	3	2786 Grinevia	2.911	0.33	3
2650* Elinor	2.762	0.02–0.18	3	2791 Paradise	9.81	0.25–0.34	3 p
2651 Karen	6.3227	0.04–0.25	2 A	2792 Ponomarev	137.566	0.44	2 W
2652 Yabuuti	2.496	0.23	2 W	2793 Valdaj	10.594	0.14	2
2653* Principia	5.5228	0.45–0.52	3	2794 Kulik	8.	0.22	2
2656* Evenkia	7.0847	0.59–0.72	3	2796 Kron	23.04	0.09	2
2658 Gingerich	2.9392	0.39	3 B?	2797 Teucer	10.145	0.20–0.25	3
2659 Millis	6.132	0.53–0.84	3 p	2802 Weissell	14.683	0.25–0.37	2 p
2660 Wasserman		0.07	N	2803* Vilho	12.5	1.00–1.00	2–
2662* Kandinsky	20.43	0.18	1+ W	2804* Yrjö	8.12	0.25–0.26	2+ W
2665 Schrutka	2.7170	0.25–0.26	3–	2809* Vernadskij	7.919	0.27–0.30	2 W
2666 Gramme	14.12	0.45–0.65	3–	2811* Střemchová	3.25	0.28–0.33	3– W
2668 Tataria	2.78	0.20	2	2812 Scaltriti	7.70	0.25	3
2669 Shostakovich	4.914	0.26–0.40	3	2813* Zappalà	18.231	0.28	3
2670 Chuvashia		0.14	N	2814* Vieira	3.366	0.17–0.18	2 W
2674* Pandarus	8.480	0.49–0.58	3	2815 Soma	2.73325	0.07–0.08	3 B
2675 Tolkien	1060.	0.75	2+ T?	2816 Pien	80.315	0.50	2 W
2677 Joan	16.97	0.52	2 W	2824 Franke	3.38	0.06	2
2678 Aavasaksa	>24.	0.4	1	2825 Crosby	2.813	0.10	2 W
2679 Kittisvaara	10.123	0.22	3	2826 Ahti	>24.	0.08–0.1	1
2682 Soromundi	9.385	0.30	2 W	2827* Vellamo	3.7386	0.19	3
2687 Tortali	21.75	0.19	2	2828* Iku–Turso		0.60	N
2689 Bruxelles	8.71	0.05	2	2829 Bobhope	6.0888	0.50–0.55	2
2691 Sersic	3.8811	0.21–0.22	3 B	2830 Greenwich	>24.	>0.5	2+
2692 Chkalov	6.11	0.13	2	2832 Lada	8.357	0.47	2+
2693 Yan'an	3.842	0.12	3–	2834* Christy Carol	12.79	0.39–0.50	3–
2696 Magion	480.	0.31	2 AT0	2835 Ryoma	18.234	0.17	2 W
2697* Albina	16.587	0.16–0.16	2 W	2836 Sobolev	4.75488		p Ns
2698* Azerbajdzhan	27.20	0.63–0.66	3–	2839 Annette	10.4595	0.64–0.92	3 p
2699 Kalinin	2.927	0.22–0.24	2+	2840 Kallavesi		0.27	N
2700 Baikonur	10.566	0.66	2 W	2841 Puijo	3.545	0.03	1+

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2842 Unsöld	49.50	0.25	3	2974 Holden	856.	0.70	2+ T0
2843 Yeti	156.718	0.45	2 W	2975 Spahr	11.946	0.47	3-
2845 Franklinken	114.	0.8	3-	2976 Lautaro	17.41	0.12	2-
2846 Ylppö	18.894	0.17-0.25	2 W	2978 Roudebush	62.354	0.39	2 W
2848 ASP	40.114	0.39	2 W	2979 Murmansk		0.60	W
2850 Mozhaikij	7.830	0.13	3-	2983 Poltava	8.865	0.67	3-
2851* Harbin	5.414	0.56-0.79	3-	2985* Shakespeare	6.06	0.39-0.57	3
2853* Harvill	6.30	0.55-0.65	3-	2986 Mrinalini	15.9	0.2	2 A
2854* Rawson	4.7755	0.63	3	2988 Korhonen	29.494	0.81-0.97	3
2855 Bastian	3.5160	0.10-0.15	3 3	2991 Bilbo	4.0637	0.40	3 p
2856 Röser	13.73	0.49	2+	2992 Vondel	18.849	0.50	2 W
2857 NOT	5.6353	0.25-0.28	3	2993* Wendy	4.456	0.60-0.68	3
2858 Carlosporter	3.35	0.15-0.47	2	2994 Flynn	9.747	0.14	2 W
2860 Pasacentennium	2.660	0.13-0.17	3	2995* Taratuta	11.14	0.25-0.25	3-
2862 Vavilov	>800.	>0.4	2 T0	2996* Bowman	12.829	0.26-0.45	2 W
2865 Laurel	21.5	0.15	2	2998 Berendeya	6.833	0.71	2 W
2867* Šteins	6.049	0.18-0.31	3 p	3000 Leonardo	7.524	0.26	2
2869 Nepryadva		0.04-0.1	N	3001* Michelangelo	8.338	0.14-0.24	3-
2870 Haupt	274.	0.54-0.60	3- T0	3002* Delasalle	6.534	0.31-0.47	3
2871 Schöber	2.8674	0.18	3-	3003 Konček	8.023	0.51	3-
2872 Gentelec	10.624	0.16	2 W	3005 Pervictoralex	36.4	0.12	2
2873 Binzel	11.560	0.14	2 W	3007* Reaves	4.15554	0.38-0.45	3
2874 Jim Young	131.3	0.75	2 T0	3008* Nojiri	5.855	0.42	3
2875* Lagerkvist	5.628	0.62	3	3012* Minsk	3.91220	0.06	2
2877 Likhachev	12.582	0.58	2 W	3013 Dobrovoleva	8.3025	0.41	3
2879 Shimizu	18.72	0.08	2	3014* Huangsushu	15.6970	0.32-0.35	3-
2880 Nihondaira	17.97	0.22-0.75	2	3015 Candy	4.625	0.50-1.05	3 p
2881 Meiden	3.48	0.10-0.17	2	3017 Petrovič	4.08033	0.39-0.62	3 p
2882* Tedesco	19.805	0.65-0.76	3	3018 Godiva	10.881	0.39	3
2886 Tinkaping	12.	>0.13	1	3020 Naudts	126.247	0.46	2 W
2887* Krinov	16.71	0.52-0.61	3	3022 Dobermann	10.330	0.75-1.24	3
2888* Hodgson	6.905	0.11-0.13	3-	3023 Heard	2.713	0.14	2 W
2889 Brno	9.51	0.51	2+	3024 Hainan	11.746	0.10-0.14	2+
2890 Vilyujsk	3.45	0.08-0.20	2+	3025* Higson	8.598	0.11-0.15	3-
2892 Filipenko	14.00	0.21	3	3026* Sarastro	15.74	>0.2	1+ DAW
2893* Peiroos	8.96	0.30-0.31	3	3028 Zhangguoxi	4.826	0.12-0.25	3
2895 Memnon	7.502	0.08-0.33	3-	3030 Vehrenberg	4.812	0.60	2 W
2896 Preiss	24.	0.3	N	3031* Houston	11.218	0.11-0.17	3
2897 Ole Römer	2.6009	0.07-0.15	3	3033* Holbaek	233.3	0.15-1.20	3- T-
2903 Zhuhai	5.263	0.32-0.54	3	3034 Climenhaga	2.73748	0.10	3 B
2904* Millman	12.6603	0.25	3-	3036 Krat	9.61	0.33	3
2906* Caltech	12.99	0.16-0.27	2	3037 Alku	11.844	0.95	3
2909 Hoshi-no-ie		0.23	N	3039 Yangel	12.573	0.16	3-
2910 Yoshkar-Ola	3.4233	0.36	3	3041 Webb		0.05	N
2911* Miahelena	4.201	0.56-0.69	3	3042* Zelinsky	5.3248	0.08	2
2912 Lapalma	5.71076	0.82-0.88	3	3043 San Diego	105.7	0.60	3- T0
2914 Glärnisch	8.35	0.24	3-	3044 Saltykov		0.04	N
2915 Moskvina	2.177	0.47	2 W	3045* Alois	3.753	0.18	2 W
2919* Dali	7.43	0.37-0.45	3	3048* Guangzhou	3.81	0.10-0.11	2 W
2920 Automedon	10.212	0.12-0.17	3	3050 Carrera	7.56	0.08	2 W
2921* Sophocles	4.778	0.16-0.23	2	3051 Nantong	3.690	0.26	3
2925* Beatty	3.6612	0.29-0.43	3-	3052 Herzen	11.605	0.89	3
2927 Alamosa	4.3832	0.26	3	3053 Dresden	4.788	0.34	2 W
2928 Epstein	8.509	0.37	2 W	3055 Annapavlova	44.626	0.41	2 W
2929* Harris	3.13	0.35-0.35	2+	3057 Mälaren	4.496	0.29	2 W
2931* Mayakovsky	37.38	0.14-0.23	3	3059* Pryor	24.544	0.45-0.60	3
2933 Amber	13.482	0.29-0.32	2	3060 Delcano	2.80265	0.14-0.18	3
2936 Nechvíle	119.642	0.48	2 W	3062 Wren	7.097	0.17-0.25	2+
2937 Gibbs	3.06153	0.31-0.39	3-	3063* Makhaon	8.64	0.06-0.15	2
2939 Coconino	4.68138	0.46	3	3064 Zimmer	190.495	0.70	2 W
2942 Cordie	80.0	1.1	2 T	3065 Sarahill	7.4525	0.95	3
2943* Heinrich	8.7923	0.17-0.20	3	3066* McFadden	13.798	0.13	3
2945 Zanstra	10.05	0.14	1	3067* Akhmatova	3.68629	0.24-0.78	3
2947 Kippenhahn	10.430	0.42-0.43	3-	3068 Khanina	3.61	0.63	3-
2948* Amosov	7.3996	0.86-1.20	2 p A	3069 Heyrovský	6.6	0.23	2
2950 Rousseau	18.228	0.30	2	3070 Aitken	6.396	0.38	2 W
2951 Perepadin	4.781	0.54-0.60	3	3073 Kursk	3.4468	0.20-0.21	3 B
2952 Lilliputia	3.26	0.12	2	3075 Bornmann	2.987	0.16	2 W
2953* Vysheslavia	6.2945	0.09-0.23	3 p	3076* Garber	2.7600	0.15-0.18	3
2954* Delsemme	4.691	0.21-0.25	3	3078 Horrocks	13.620	0.25	3-
2956* Yeomans	3.4	0.24-0.28	2	3080 Moisseiev	6.230	0.40	3
2957 Tatsuo	6.8191	0.52-0.53	3 p	3082 Dzhalil	17.064	0.25	2 W
2959 Scholl	>16.	>0.14	1	3084 Kondratyuk	5.227	0.20	3
2960* Ohtaki	5.31	0.39-0.55	3- W	3086 Kalbaugh	5.180	0.47-0.76	3 p
2961 Katsurahama	2.936	0.20-0.30	3	3088 Jinxiuzhonghua	6.005	0.31	2 W
2962* Otto	2.67756	0.14-0.17	3 p	3089 Oujianquan	14.328	0.45-0.52	3-
2964* Jaschek	12.53	0.38-0.50	3-	3091 van den Heuvel	30.9	0.30	2-
2965 Surikov	9.061	0.28-0.29	3	3094 Chukokkala	8.3711	0.33	3
2972 Niilo	8.592	0.12	2 4A	3095 Omarkhayyam	11.920	0.12	2 W
2973 Paola	>24.	0.2	1	3097 Tacitus	7.417	0.51	2 p W

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Planet	Period	Variation	Note	Planet	Period	Variation	Note
3099 Hergenrother	24.266	0.28	2	3224 Irkutsk			2
3101 Goldberger	5.268	0.90–1.03	3	3225 Hoag	2.3717	0.12–0.22	3 p
3102* Krok	149.4	0.7 –1.6	3 p T-	3227 Hasegawa	6.536	0.34–0.39	3
3103* Eger	5.7059	0.49–1.18	3 p	3228* Pire	11.538	0.50	3
3104* Dürer	6.327	0.10–0.28	3	3229* Solnhofen	11.52	0.38–0.71	2
3105* Stumpff	5.0369	0.32–0.46	3	3230 Vampilov	6.141	0.24	2 W
3106 Morabito	6.26	0.27	N	3232* Brest	5.288	0.25	2
3107 Weaver	10.5	0.55	1+	3233 Krišbarons	>24.	0.15	1
3108 Lyubov	2.658	0.18	2 W	3236* Strand	66.133	0.43–0.44	3
3109 Machin	20.3	0.46	2	3237* Victorplatt	10.36	0.24	2
3111 Misuzu	>40.	0.25	2– W	3240* Laocoon	11.312	0.55	2+
3115* Baily	16.012	0.08–0.2	3–	3242 Bakhchisaraj	15.	0.07	2–
3116 Goodricke	10.	0.09	2	3247* Di Martino	5.445	0.32–0.51	3 p
3118 Claytonsmith	15.794	0.40	2	3248 Farinella	6.676	0.20	2 3
3120* Dangrania	20.68	0.39	2	3249 Musashino	4.55272	0.55	3
3121* Tamines	4.043	0.04–0.19	3	3250* Martebo	9.495	0.35–0.52	3
3122* Florence	2.3581	0.12–0.27	3 B?	3252 Johnny	3.5467	0.47–0.50	3
3123* Dunham	172.534	0.63–0.73	2 W	3253* Gradie	6.293	0.48–0.54	2 A
3125 Hay	14.31	0.50–0.54	3	3254 Bus	6.62	0.31	2
3127 Bagration	>12.	>0.03	1	3255* Tholen	2.95	0.11–0.28	3–
3128 Obruchev	12.642	0.55	2 W	3257 Hanzlík	8.465	0.20	2 W
3129 Bonestell	2.97794	0.19	3	3258 Somnium	5.3379	0.80	3 p
3130 Hillary	25.282	0.84	2 W	3259 Brownlee	9.25	0.16–0.32	3–
3131* Mason–Dixon	19.748	0.70	2 W	3260* Vizbor	72.12	0.3 –0.64	2+
3133* Sendai	5.776	0.18–0.19	3–	3261 Tvardovskij	S 5.36852		p Ns
3134 Kostinsky	14.7	0.33–0.40	2	3262 Miune	19.61	0.30	2
3138* Ciney	113.	0.48–0.56	2+ DT0	3263 Bligh	3.193	0.16	2+
3139 Shantou	8.33	0.34	2	3266 Bernardus	10.757	0.27–1.14	3 p
3140 Stellafane	19.23	0.17	2+	3267 Glo	6.8782	0.33	3
3141 Buchar	11.41	0.47	2+	3268 De Sanctis	17.	0.4	2
3142 Kilopi	15.128	0.29	2 W	3270* Dudley	4.047	0.25–0.25	3
3144 Brosche	3.300	0.54–0.60	3	3272 Tillandz	4.74961	0.59–0.67	3
3145 Walter Adams	2.7113	0.10–0.2	3 B?	3274 Maillen	11.369	0.65	2 W
3146 Dato	5.0540	0.23	3	3277 Aaronson	9.80	0.14	2+
3148* Grechko	5.983	0.34–0.35	2 W	3279 Solon	8.0969	0.85	3 p
3149 Okudzhava			2	3280* Grétry	10.56	0.35–0.51	3–
3151 Talbot	19.49	0.40	2+	3281 Maupertuis	6.7295	1.22	3 p
3152 Jones		0.09	N	3284 Niebuhr	4.307	0.50	3
3155 Lee	8.310	0.22–0.4	3 4	3285 Ruth Wolfe	3.919	0.20	3 p
3156 Ellington	8.33	0.10–0.10	2	3286 Anatoliya	S 5.81029		p Ns
3158 Anga	>8.		N	3287 Olmstead	4.80	0.36	3
3159 Prokof'ev	3.89	0.42	2–	3288 Seleucus	75.	1.0	1 T
3161 Beadell	36.253	0.43	3–	3290 Azabu	>12.	>0.08	1
3162 Nostalgia	6.412	0.75–0.80	3	3296 Bosque Alegre	7.778	0.30	3–
3163 Randi	59.50	0.54–1.2	2	3300 McGlasson	22.91	0.16	2
3165 Mikawa	5.08	0.08–0.25	2	3301* Jansje	9.4340	0.53–0.70	3 p
3166* Klondike	>20.	>0.25	2	3304 Pearce	40.323	0.43	2 W
3167 Babcock	15.450	0.30	2	3305 Ceadams	2.729	0.20	3–
3169* Ostro	6.503	0.42–0.86	3 p B	3306 Byron	7.321	0.84	3–
3170 Dzhanibekov	6.0724	0.64	2+ p	3307 Athabasca	4.902	0.45	3–
3174 Alcock	7.05	0.65	3–	3308 Ferreri	9.229	0.36	2 W
3176 Paolicchi	20.4	0.31	2	3309* Brorfelde	2.5041	0.09–0.23	3 B
3177 Chilloithe	3.54722	0.25	3	3310 Patsy	9.36	0.15	3
3178 Yoshitsune	7.478	0.52–0.53	3	3312 Pedersen	24.438	0.15	2 W
3179* Beruti	5.383	0.80–0.84	2 W	3314 Beals	5.4616	0.70	3
3181 Ahnert		0.08	N	3315* Chant	13.749	0.29–0.34	2 W
3182* Shimanto	2.9950	0.26–0.30	3	3316 Herzberg	9.6	0.1	1
3184 Raab	274.944	0.09	1 W	3317* Paris	7.048	0.08–0.11	3
3186* Manuilova	18.147	0.22–0.35	2 W	3318* Blixen	6.456	0.20–0.23	2+
3187 Dalian	2.706	0.14	2 W	3322 Lidiya	710.	0.6	1
3188 Jekabsons	2.363	0.09	2 W	3324* Avsyuk	8.6140	0.30–0.61	3
3192 A'Hearn	3.160	0.20	3	3332 Raksha	4.8065	0.25–0.36	3
3194 Dorsey	17.810	0.44	2 W	3333 Schaber	10.971	0.46	3–
3196 Maklaj	21.807	0.45	2 W	3335* Quanzhou	4.968	0.27–0.80	2
3197* Weissman	6.122	0.22–0.23	3–	3339 Treshnikov	18.2947	0.30	3–
3198 Wallonia	7.54	0.38–0.57	3	3343 Nedzel	5.4620	0.56	3
3199 Nefertiti	3.021	0.1 –0.30	3 p	3345* Tarkovskij	187.	0.59–0.7	3–
3200* Phaethon	3.604	0.07–0.26	3 p	3350 Scobee		>0.17	
3201 Sijthoff	4.607	0.29	2 W	3352* McAuliffe	2.2060	0.08–0.12	3 B?
3202 Graff	17.32	0.18	3–	3353 Jarvis	202.0	0.10–0.50	2+ T0
3203* Huth	4.7064	0.13	3–	3356 Resnik	>32.	>0.1	2
3204 Lindgren	5.614	0.15	2 W	3361 Orpheus	3.532	0.22–0.32	3–
3207* Spinrad	2.73	0.18	2 W	3362 Khufu		>0.14	
3210 Lupishko	14.241	0.67	2 W	3363 Bowen	3.0219	0.19	3
3212 Agricola	9.	0.07	N	3364* Zdenka	7.584	0.43–0.49	3
3213* Smolensk	3.564	0.16–0.25	2 W	3366 Gödel	4.684	0.20	2+
3218 Delphine	3.468	0.12	2 W	3367 Alex	9.6	0.01–0.05	1
3219 Komaki	3.8110	0.16	3	3368 Duncombe		0.1	
3220 Murayama	4.8595	0.13–0.16	2 B?	3370 Kohsai	4.907	0.73	3
3223* Forsius	2.343	0.20–0.28	3	3375 Amy	S 3.25563		p Ns

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Planet	Period	Variation	Note	Planet	Period	Variation	Note
3376* Armandhammer	7.916	0.03–1.10	3–	3528 Counselman	10.765	0.59	2 W
3377 Lodewijk	6.760	0.33	2 W	3533 Toyota	2.9807	0.16–0.20	3
3382 Cassidy	4.258	0.10–0.16	3–	3534 Sax	6.221	0.27	3
3383 Koyama	111.845	0.62	2 W	3536 Schleicher	5.79	0.94	3
3385 Bronnina	2.95893	0.12–0.28	3–	3537 Jürgen	>14.	0.3	1
3387 Greenberg	2.6941	0.08–0.18	3	3539 Weimar	7.29	0.27	2+
3388 Tsanghinchi	3.257	0.33	3	3540* Protesilaos	8.945	0.13–0.13	2
3391 Sinon	8.135	0.72	3	3541 Graham	3.5277	0.12–0.13	3
3395 Jitka	18.293	0.30–0.50	3	3544 Borodino	5.442	0.60–0.65	3 p
3397 Leyla	3.098	0.29–0.40	3	3546 Atanasoff	3.754	0.41	2 W
3398 Stättmayer	8.280	0.13	2+	3548 Eurybates	8.711	0.19–0.20	3–
3401 Vanphilos	4.2261	0.50–0.62	3	3549* Hapke	7.071	0.24–0.31	2 W
3402 Wisdom	4.9951	0.74–0.75	3	3550 Link	12.371	0.21	2 W
3403 Tammy	11.85	0.10	1	3551 Verenia	4.930	0.11–0.15	2
3406 Omsk	7.275	0.28	3	3552 Don Quixote	7.7	0.57	2 A
3407* Jimmysimms	6.819	0.67–0.95	3 p	3553 Mera	3.1944	0.08	2
3408 Shalamov	10.495	0.28	1+	3554 Amun	2.53001	0.17–0.23	3
3409 Abramov	7.791	0.49–0.50	3	3555 Miyasaka	54.208	0.34	2 W
3410* Vereshchagin	2.5780	0.11	2 A	3557 Sokolsky	6.725	0.19	3
3411 Debetencourt	9.93	0.43	3–	3558 Shishkin	6.875	0.95	3
3413 Andriana	11.2	0.11	2–	3559 Violaumayer	3.79	0.19	1+ W
3415* Danby	2.837	0.09–0.18	2+ A	3560* Chenqian	18.79	0.26	3–
3416 Dorrit	2.574	0.21–0.27	3	3561 Devine	4.376	0.08	2 A
3417 Tamblin	5.467	0.12	2 W	3562 Ignatius	2.732	0.12–0.21	3–
3419* Guth	14.43	0.19–0.29	3	3563 Canterbury	15.553	0.61	2 W
3422 Reid	2.91	0.44–0.52	3	3564 Talthybius	40.59	0.31–0.38	3–
3425* Hurukawa	24.84	0.17–0.47	3–	3567 Alvema	8.13	0.17–0.33	2+
3427 Szentmártoni		0.75	3 W	3570 Wuyeesun	15.459	0.45	2 W
3428 Roberts	3.278	0.58	3 p	3571* Milanšćefánik	421.1	0.65	2+ T0
3429 Chuvaev	3.365	0.18	2 W	3573 Holmberg	6.5431	0.91–1.03	3 p
3431* Nakano	9.2	0.24–0.25	2	3575 Anyuta	6.321	0.38	3
3432 Kobuchizawa		0.04	3 N	3576 Galina	3.3423	0.04–0.05	2
3433* Fehrenbach	3.9160	0.26–0.34	3 B	3577* Putilin	18.270	0.11–0.27	2
3435 Boury	14.42	0.36	3–	3578* Carestia	9.93	0.13	2
3436 Ibadinov	>170.	1.	1	3580* Avery	24.226	0.17–0.33	2 W
3438 Inarradas	24.82	0.38	2	3581 Alvarez	33.42	0.06	2
3439 Lebofsky	5.969	0.20	2 W	3585 Goshirakawa	2.97	0.04	2 W
3442 Yashin	8.552	0.50	2 W	3586 Vasnetsov	4.06	0.49	3
3443* Leetsungdao	3.439	0.23–0.47	3	3590 Holst	12.7635	0.20	2
3444 Stepanian	14.47	0.34	3–	3596 Meriones	12.96	0.15	2
3445 Pinson	7.801	0.30	3	3597* Kakkuri	27.0	0.74–0.75	2 W
3447* Burckhalter	59.8	0.10–0.39	3 T+	3599* Basov	2.16	0.10	2 W
3448 Narbut	570.37	0.39	2 W	3602 Lazzaro	4.939	0.14	2 W
3451* Mentor	7.730	0.13–0.63	3	3603 Gajdušek	4.770	0.29	2 W
3453 Dostoevsky	3.20	0.09	3–	3605 Davy	2.72	0.20–0.25	3
3454 Lieske	105.	>0.73	2–	3606 Pohjola	2.92	0.11	2
3455* Kristensen	8.111	0.37–0.45	3 p	3608* Kataev	5.022	0.35–0.38	2 W
3458 Boduognat	3.8565	0.38	3	3609 Liloketai	15.636	0.17	2 W
3460 Ashkova	4.562	0.31	2 W	3614 Tumilty	26.8	0.10	2–
3461 Mandelshtam	2.848	0.20	2 W	3615 Safronov	>16.	>0.2	2– W
3466 Ritina	5.253	0.51	2 W	3617 Eicher	5.81	0.21	2
3469 Bulgakov	6.48	0.09	1	3618 Kuprin	9.24	0.56	2+
3472 Upgren	9.440	0.46	2 W	3621 Curtis	39.001	0.44	2 W
3478 Fanale	3.245	0.47–0.60	3 p	3623 Chaplin	8.361	0.80–0.97	3 B
3480 Abante			2	3625 Fracastoro	2.712	0.25	3
3481 Xianglupeak	5.3193	0.30–0.44	3	3628 Božněmcová	3.33541	0.09	3
3483 Svetlov	6.790	0.21–0.28	3	3631 Sigyn	41.	0.1	1
3484 Neugebauer	12.63	0.10	2 W	3632 Grachevka	3.9536	0.30–0.37	3
3485 Barucci	14.65	0.19	1	3633 Mira	19.170	0.62	2 W
3487 Edgeworth	D long	0.1	1+	3635 Kreutz	280.	0.20–0.25	2+ T0
3491 Fridolin	9.898	0.10	2 W	3637* O'Meara	5.49	0.25	2–
3492* Petra–Pepi	47.05	0.55–0.55	3– p	3638 Davis	8.9	0.40	2
3493* Stepanov	6.112	0.77–0.95	3	3639 Weidenschilling	8.515	0.20	2 W
3494* Purple Mountain	5.857	0.32	3– p A	3640 Gostin	3.2641	0.27–0.47	3
3496 Arieso	2.862	0.30	3	3642 Frieden	14.491	0.13	3
3497* Innanen	7.181	0.39–0.60	3	3645 Fabini	4.633	0.08	2 W
3500* Kobayashi	5.606	0.17–0.60	2 W	3647 Dermott	21.779	0.84	3
3506 French	16.756	0.69	2 W	3651 Friedman	2.81	0.12	2
3507 Vilas	3.959	0.29	3	3655 Eupraksia	75.668	0.23	2 W
3509 Sanshui	13.68	0.07	2	3656 Hemingway	5.626	0.87	2 W
3511* Tsvetaeva	6.2279	0.80–0.92	3	3657 Ermolova	2.6064	0.16–0.26	3 p
3512 Eriepa	6.784	0.25–0.35	3	3665 Fitzgerald	2.4141	0.08–0.12	3
3513 Quqinyue	9.882	0.84	2 W	3668 Il'fpetrov	15.268	0.82	2 W
3514* Hooke	4.307	0.17–0.19	3	3671 Dionysus	2.7053	0.13–0.26	3 B
3518* Florena	3.2269	0.17	3–	3672* Stevedberg	2.78	0.22–0.28	3–
3519* Ambiorix	5.78	0.19	2 W	3673 Levy	2.6879	0.13	3 B
3523* Arina	2.67	0.07	2	3674 Erbisbühl	11.28	0.40	3
3524* Schulz	13.39	0.37–0.58	2 W	3675 Kemstach	14.1	0.12	2
3525 Paul	12.	0.1	2–	3676 Hahn	7.685	0.25	2 W
3527* McCord	321.	0.44	2 T0	3678* Mongmanwai	4.184	0.62–0.73	3 p

MINOR PLANET LIGHTCURVE PARAMETERS

Planet	Period	Variation	Note	Planet	Period	Variation	Note
3679* Condruces	172.	0.25–1.30	2+	3811 Karma	13.23	0.20–0.33	2+
3680 Sasha	5.8146	0.30–0.32	3	3812* Lidaksum	8.014	0.23	3–
3682 Welther	3.5973	0.21–0.37	3	3813* Fortov	12.3	0.53–0.76	3–
3683 Baumann	15.758	0.21	2 W	3819 Robinson		0.31	N
3684 Berry	11.9	0.72	2	3820 Sauval	3.270	0.24	2 W
3685 Derdenye	>12.	0.05	1	3821 Sonet	9.559	0.29	2 W
3686 Antoku	6.730	0.19–0.37	2 W	3822 Segovia	S 11.03204		p Ns
3687 Dzus	7.44	0.1	1	3823 Yorii	6.669	0.26	3
3691* Bede	226.8	0.5	2 T	3824 Brendalee	4.520	0.18	3
3692 Rickman	7.793	0.38	2 W	3825 Nürnberg	4.0301	0.71–0.72	3
3693 Barringer	6.626	0.54	3 p	3829 Gunma	4.728	0.22–0.29	3
3694 Sharon	11.478	0.44–0.52	3	3830 Trelleborg		0.05	
3695 Fiala	>4.	>0.05	1	3831 Pettengill	4.78	0.58	3–
3698 Manning	3.0624	0.44	3	3833* Calingasta	199.	0.70–1.20	3 T
3700* Geowilliams	14.387	0.40–0.42	3	3836* Lem			HNW
3703 Volkonskaya	3.235	0.22	3 B	3838 Epona	2.3812	0.05–0.38	N
3704 Gaoshiqi	9.7725	0.20–0.21	2+	3839 Bogaevskij	129.936	0.44	2 W
3706 Sinnott	4.038	0.48	2 W	3841 Dicicco	3.5950	0.18–0.19	3 B
3708 1974 FV ₁	6.553	0.20–0.31	3	3842 Harlansmith	2.7938	0.40	3–
3709* Polypoites	10.039	0.12–0.15	3	3843* OISCA	19.089	0.2 –0.32	3–
3712 Kraft	9.341	0.27–1.20	3	3845 Neyachenko	12.140	0.49	2 W
3713 Pieters	6.9	0.10	2	3849 Incidentia	2.778	0.14	2 W
3720 Hokkaido	4.79	0.20	2+	3850 Peltier	2.4289	0.09–0.10	3
3721 Widorn	84.960	0.19	2 W	3851 Alhambra	53.	0.35	2
3722 Urata	5.567	0.04–0.58	3 p	3854 George	3.3398	0.12–0.14	3 B?
3723 Voznesenskij	7.964	0.23	2 W	3855 Pasasympsonia	6.5131	0.18	2 A
3724 Annenskij	3.974	0.28–0.30	3	3860* Plovdiv	6.114	0.34–0.37	2+
3725 Valsecchi	3.57	0.52	2 p	3861* Lorenz	11.91	0.26	3–
3726 Johnadams	3.509	0.11	2 W	3866 Langley	9.500	0.53	2 W
3727 Maxhell	51.469	0.28	2 W	3867* Shiretoko	28.035	0.22	2
3728 IRAS	8.323	0.21	3	3868 Mendoza	2.77090	0.07–0.20	3 B
3729* Yangzhou	29.158	0.41–0.41	2 W	3870 Mayré	3.9915	0.44–0.45	3
3730 Hurban	4.649	0.22	3	3872* Akirafujii	10.635	0.23–0.35	2 A
3731 Hancock	6.712	0.04	1	3873 Roddy	2.4782	0.05–0.11	3 B
3733* Yoshitomo		0.06	N	3879* Machar	4.131	0.19–0.23	3
3735 Třeboň	8.471	0.55	2 p s	3880 Kaiserman	5.270	0.08–0.23	3 B?
3737 Beckman	3.124	0.16–0.27	3	3883 Verbano	50.8	0.80	2+
3738* Ots	4.17025	0.74	3	3885 Bogorodskij	5.803	0.21–0.32	2
3743* Pauljaniczek	4.558	0.27	3	3888* Hoyt	84.2	0.70–0.70	3 T0
3744 Horn–d'Arturo	7.093	0.28–0.45	2	3893 DeLaeter	13.83	0.13–0.20	2
3746 Heyuan	S 16.3010		p Ns	3894 Williamcooke	3.10	0.09	2
3747 Belinskij	3.31	0.02	1	3895* Earhart	3.5645	0.28–0.48	3
3748 Tatum	58.21	0.54	2+	3896 Pordenone	4.009	0.24–0.37	p
3749 Balam	2.80483	0.10–0.14	3 p M	3899 Wichterle	5.8572	0.60	3
3751* Kiang	8.2421	0.44–0.55	3–	3900 Knežević	5.324	0.62	3–
3752 Camillo	37.846	1.1	3 p T-	3903* Kliment Ohridski	28.09	0.19	2– HW
3753 Cruithne	27.30990	0.40–0.95	3–	3904 Honda	>24.	>0.1	1
3754* Kathleen	11.18	0.13–0.20	3–	3905 Doppler	50.8	1.22	3 B
3755 Lecointe	27.920	0.30	3	3906 Chao	11.892	0.13	3
3757 Anagolay	9.012	0.14–0.20	2	3907* Kilmartin	3.841	0.30	3
3758 Karttunen	S 12.50101		p Ns	3908 Nyx	4.42601	0.25–0.46	3 p
3759* Piironen	409.848	0.09–0.56	2 W	3909 Gladys	6.83	0.04–0.15	1
3761 Romanskaya	15.32	0.34	2	3910 Liszt	4.73	0.60	3 p
3763 Qianxuesen	3.884	0.31	3	3911 Otomo	10.6	0.05	1+
3767* DiMaggio	6.581	0.40–0.45	3–	3913 Chemin	3.4077	0.17–0.53	3
3771 Alexejtolstoj	11.094	0.08	1 W	3914 Kotogahama	16.716	0.28	2 W
3772* Piaf	5.376	0.45–0.53	3	3915 Fukushima	9.418	0.50–0.79	3
3773* Smithsonian	6.9804	0.33–1.04	3 p	3918 Brel	3.0980	0.22–0.28	3 p
3774 Megumi		0.11	N	3920 Aubignan	4.4762	0.97–1.00	3
3776 Vartiuvuori	7.7	0.12	2–	3922 Heather	5.045	0.60	2 W
3779 Kieffer	2.848	0.24	3	3923* Radzievskij	39.93	0.61–0.95	2
3780 Maury	3.46	0.16	2–	3924 Birch	18.74	0.28–0.67	2
3782 Celle	3.84	0.12–0.17	3 AB	3925* Tret'jakov	30.962	0.24	2+
3783 Morris	6.816	0.15	2 W	3928* Randa	29.9	0.06–0.12	2
3784 Chopin	12.72	0.06	1+	3932 Edshay	3.432	0.20	2 W
3785* Kitami	3.7992	0.29–0.30	3	3935 Toatenmongakkai	106.3	0.58	2
3786 Yamada	4.034	0.40–0.65	3 p	3936 Elst	6.6322	0.13	3
3787* Aivazovskij	2.97	0.18–0.21	3 p	3940* Larion	84.	0.30–0.31	2 T0
3789 Zhongguo	3.840	0.24	2 W	3944 Halliday	5.565	0.32	2 W
3790* Raywilson	4.654	0.30	2 W	3945* Gerasimenko	272.332	0.61–0.68	2 W
3791 Marci	10.584	0.18	2 W	3946* Shor	5.590	0.35–0.43	2 W
3792* Preston	2.9274	0.18–0.30	3	3947 Swedenborg	38.557	0.29	2 W
3793 Leonteus	5.6225	0.05–0.24	2+	3948* Bohr	24.884	0.2 –0.90	3
3794 Sthenelos	12.877	0.27	3	3951 Zichichi	3.39423	0.25–0.35	3 B
3795 Nigel	6.83	0.27	3–	3952 Russellmark	5.090	0.90	2 W
3800 Karayusuf	2.2319	0.15–0.19	3 B?	3953 Perth	5.083	0.28–1.09	3
3801* Thrasymedes	20.270	0.08–1.07	2	3956 Caspar	2.77120	0.13–0.14	3
3805 Goldreich	4.841	0.75	2 W	3958* Komendantov	11.2947	0.20–0.27	3
3807 Pagels	3.3	0.13	2	3960 Chaliubieju	3.986	0.27–0.30	3
3810 Aoraki	29.807	0.05–0.06	1 W	3962 Valyaev	16.440	0.44	2 W

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3965* Konopleva	6.8709	0.17–0.23	2+	4145* Maximova	19.872	0.90–1.00	3
3968 Koptelov	20.88	0.03	1	4147 Lennon	137.	0.25–0.6	1
3970* Herran	8.09	0.36–0.36	2+	4149 Harrison	3.7490	0.37–0.42	3
3971* Voronikhin	5.552	0.22–0.34	3	4150 Starr	4.5179	0.08–0.20	3
3973 Ogilvie	21.211	0.29	2 W	4151 Alanhale	11.918	0.07	1 W
3974 Verveer	8.51	0.22	3	4154 Rumsey	3.2569	0.38	3
3975 Verdi	8.158	0.71	2 W	4155 Watanabe	4.4972	0.20	3
3976 Lise	15.6912	0.16–0.23	3	4156 Okadanoboru	12.015	0.47	2 W
3977 Maxine	3.081	0.25	2+	4158 Santini	144.428	0.37	2 W
3979 Brorsen	5.482	0.08	2 W	4159 Freeman	4.4021	0.23–0.40	3
3981 Stodola	102.657	0.08	1 W	4162 SAF	7.5	0.16	2–
3982* Kastel	8.488	0.27–0.28	NB?	4164* Shilov	18.5	0.29	2–
3983 Sakiko	10.510	0.69	2 W	4167 Riemann	4.060	0.17	3
3985 Raybatson	4.298	0.10	2	4169 Celsius	10.887	0.44	2+
3986 Rozhkovskij	3.548	0.25–0.35	3	4170* Semmelweis	5.31	0.36–0.50	3–
3987 Wujek	8.037	0.37	2+	4171 Carrasco	33.53	0.17–0.22	2 A
3988 Huma	10.4	0.24	2+	4172 Rochefort	3.68	0.40	3–
3990 Heimdal	>20.	0.1	N	4174* Pikulia	19.59	0.12	2 W
3991* Basilevsky	5.440	0.09	2 W	4175 Billbaum	2.73	0.08–0.15	3–
3992 Wagner	20.628	0.29	2–	4176 Sudek	8.164	0.32	2 W
3996 Fugaku	7.191	0.86	2 W	4179* Toutatis	176.	0.50–1.46	3 T
3998* Tezuka	3.0789	0.43–0.46	3	4182 Mount Locke	3.0179	0.15–0.17	3
3999 Aristarchus	12.58	0.30	2+	4183 Cuno	3.5595	0.47–0.84	3
4000 Hipparchus	3.418	0.11	2	4185 Phystech	4.66904	0.41–0.53	3
4002 Shinagawa	175.0	0.95	3– T0	4188* Kitezh	2.58	0.19–0.27	3–
4003 Schumann	5.7502	0.20–0.23	3–	4190 Kvasnica	13.42	0.09	2–
4005* Dyagilev	6.400	0.23–0.46	3–	4191* Assesse	5.6489	0.50–0.70	2+
4006 Sandler	3.40	0.16	3	4192 Breysacher	7.394	0.48	2 W
4007 Euryalos	6.391	0.07	2	4196 Shuya	>20.	>0.07	1
4008 Corbin	6.203	0.12	3	4197 Morpheus	3.5380	0.28–0.49	3
4009* Drobyshevskij	3.875	0.31–0.38	2 W	4201* Orosz	17.3849	0.70–0.88	3
4010* Nikol'skij	3.877	0.40–0.44	2 W	4204 Barsig	2.2663	0.13	3
4011 Bakharev	4.206	0.06	1 W	4205 David Hughes	>24.	0.25	2–
4012 Geballe	5.88597	0.90	3	4207* Chernova	10.288	0.08–0.10	2
4013 Ogiria	3.490	0.26	2 W	4209 Briggs	12.22	0.44–0.45	3– p
4014 Heizman	9.36	0.20	2– W	4212 Sansyu–Asuke	15.94	0.09	2
4015* Wilson–Harrington	3.5736	0.10–0.12	2 p A	4214 Veralynn	7.60	0.35	2–
4022 Nonna	2.5877	0.04–0.10	3	4215 Kamo	12.6	0.11–0.21	2
4023 Jarník	4.776	0.27	2 W	4217 Engelhardt	3.0661	0.16–0.18	3
4024* Ronan	356.	1.10–1.10	3– T-	4219 Nakamura	115.492	0.20	2 W
4029 Bridges	3.5746	0.18–0.29	3 B	4222 Nancita	3.8732	0.97	3
4031 Mueller	2.9420	0.14–0.19	3	4223 Shikoku	9.137	0.17–0.19	3
4035* 1986 WD	13.467	0.18–0.21	3	4224 Susa	6.178	0.21–0.27	3–
4037 Ikeya	4.05754		p Ns	4226 Damiaan	24.	0.05	1
4041 Miyamotoyohko	7.694	0.13	2–	4230* van den Bergh	87.918	1.09	2 W
4045 Lowengrub	9.764	0.40	3	4231* Fireman	28.0	0.10	2
4046* Swain	7.185	0.28–0.32	2 W	4232 Aparicio	54.4	0.60–0.83	3– T0
4049* Noragal'	9.2	0.34–0.35	2+ W	4234* Evtushenko	3.45	0.17	2 W
4055 Magellan	7.475	0.45–0.76	3	4242 Brecher	7.68	0.83	2+ W
4057* Demophon	29.925	0.21–0.23	2+	4246 Telemann	8.960	0.11	2
4058 Cecilgreen	7.34	0.15	2	4251* Kavasch	3.166	0.31–0.54	3 W
4060* Deipylus	9.298	0.07–0.13	3	4252* Godwin	11.623	0.41–0.42	3–
4063* Euforbo	8.846	0.15–0.24	3	4254 Kamél	2.739	0.17–0.19	3
4067 Mikheľ'son	2.2461	0.11	3	4255 Spacewatch	>20.	>0.12	2
4068* Menestheus	14.40	0.18–0.40	3–	4257 Ubasti		0.36	N
4070 Rozov	5.8956	0.52	3	4263* Abashiri	4.8820	0.11–0.42	3
4077 Asuka	7.919	0.40	3– p	4264 Karljosephine	30.96	0.09–0.45	2
4078* Polakis	4.831	0.32–0.38	3	4265* Kani	5.7279	0.62–0.75	3 p
4080 Galinskij	7.3600	0.91–1.01	3 p	4266 Waltari	11.200	0.45	3
4082 Swann	4.03632	0.35–0.67	3	4271 Novosibirsk	8.850	0.52	3
4085* Weir	14.602	0.18–0.24	2	4272 Entsuji	2.8087	0.06	NB
4086* Podalirius	10.43	0.08–0.16	2+	4274 Karamanov	4.196	0.36	3
4087 Pärt	16.47	0.59	2	4282* Endate	>34.	>0.5	HNW
4089* Galbraith	4.9123	0.68–0.96	3 p	4283 Stöffler	136.	0.1–0.65	2– T0
4090* Riševėzd	4.55	0.32–0.41	2 W	4284 Kaho	4.0584	0.48–0.63	3 p
4091 Lowe	16.59	0.10–0.11	2	4285* Hulkower	6.1501	0.53–0.68	3
4100 Sumiko	6.2108	0.31	3	4287 Trísov	5.494	0.70	3
4104 Alu	>6.		N	4288 Tokyotech	3.181	0.19	3
4106 Nada	5.832	0.48–0.71	3	4289 Biwako	4.4185	0.11	3
4107 Rufino	22.352	0.15	2 W	4290 Heisei	10.63	0.30	3–
4112 Hrabal	>8.	0.25	1	4293 Masumi		<0.1	N
4113 Rascana	4.416	0.46	2 W	4294 Horatius	12.499	0.10	2
4116* Elachi	38.143	0.70–1.04	3	4296* van Woerkom	2.8087	0.20	NB
4122 Ferrari	8.45	0.18	2+	4298 Jorgenuñez	30.474	0.60	2 W
4125 Lew Allen	4.629	0.20–0.45	3	4299 WIYN	>26.	0.06	2
4132* Bartók	3.297	0.32–0.44	3	4300 Marg Edmondson	9.328	0.12	2
4134 Schütz	5.207	0.58	2 W	4302 Markeev	5.134	0.31	3
4135 Svetlanov	10.559	0.15	2	4307 Cherepashchuk	2.724	0.24	2 W
4138* Kalchas	29.2	0.10–0.40	3	4308 Magarach	33.8	0.07	1
4142* Dersu–Uzala	140.	0.22–0.60	2 T?	4317* Garibaldi	7.539	0.12	3–

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Planet	Period	Variation	Note	Planet	Period	Variation	Note
4318 Bařa	10.571	0.62	2 W	4489* 1988 AK	12.582	0.20–0.26	3
4323 Hortulus	4.7354	0.23–0.43	3–	4490 Bambery	5.815	0.7 –1.16	3 p
4324* Bickel	26.592	0.63–0.72	3	4492 Debussy	26.606	0.44–1.13	3 B
4327 Ries	126.562	0.85	2 W	4493 Naitomitsu	5.04	0.07	1+
4332* Milton	3.295	0.16–0.30	3–	4497* Taguchi	3.563	0.11–0.21	3
4334 Foo	7.42	0.17	2– W	4498* Shinkoyama	5.2068	0.44–0.75	3
4335 Verona	3.5943	0.30–0.40	3	4501 Eurypylos	6.054	0.24	2+
4338* Velez	3.166	0.14–0.15	2 W	4502* Elizabethhann	4.7630	0.30–0.56	3
4339 Almamater	30.84	0.17	2	4503 Cleobulus	3.13	0.22	2
4340 Dence	7.546	0.07–0.58	3–	4505 Okamura	6.6687	0.50	3
4341 Poseidon	6.262	0.07–0.08	2	4506* Hendrie	5.511	0.67–0.76	2 W
4343* Tetsuya	7.392	0.20	3–	4507* Petercollins	6.58	0.22–0.40	3 p
4344 Buxtehude	18.087	0.68	2 W	4509 Gorbatskij	6.006	0.81–0.81	3
4347 Reger	15.960	0.41	2 W	4511 Rembrandt	3.8369	0.49	3–
4348 Poulydamas	9.908	0.19–0.27	3	4512 Sinuhe	18.00	0.80	2
4349 Tibúrcio	16.284	0.40	3	4513 Louvre	2.937	0.24	2 W
4350 Shibechea	2.890	0.11–0.16	2+	4514 Vilen	2.89224	0.09	NB
4351 Nobuhisa	2.919	0.27	2 W	4517* Ralpharvey	3.600	0.21–0.39	3
4352 Kyoto	21.9352	0.74	3–	4519 Voronezh	7.442	0.56	2 W
4353 Onizaki	4.429	0.36	2 W	4520* Dovzhenko	4.7340	0.83–1.00	3
4355* Memphis	7.150	0.61	2	4522* Britastra	2.77	0.15	1 W
4357 Korinthos	6.619	0.12	2+	4524* Barklajdetolli	1069.	1.05–1.26	2 T0
4358 Lynn	3.8377	0.60	3	4527 Schoenberg	2.69	0.31	3–
4359 Berlage	7.413	0.90	3	4528 Berg	3.5163	0.16–0.25	2
4360 Xuyi	5.939	0.19	2 W	4529 Webern	3.469	0.49	2 p W
4362 Carlisle		0.10	N	4531 Asaro	4.144	0.18–0.29	3–
4363 Sergej	13.04	0.50	3–	4533* Orth	>24.	0.1 –0.68	2
4364* Shkodrov	17.3233	0.35–0.42	3–	4534 Rimskij–Korsakov	11.646	0.62	2 W
4365* Ivanova	9.84	0.65–0.89	2+ W	4535 Adamcarolla	10.211	0.35–0.83	2
4368 Pillmore	3.6054	0.29	3	4536 Drewpinsky		0.15	N
4369* Seifert	30.573	0.31	3	4541* Mizuno	2.82784	0.08	NB
4372 Quincy	2.763	0.15	2 W	4542* Mossotti	2.934	0.10–0.24	3
4374 Tadamori	4.50474	0.77–0.94	3	4543 Phoinix	38.866	>0.34	2+
4375 Kiyomori	6.4709	0.15–0.16	3	4544 Xanthus	37.65	0.27	2 T0
4377 Koremori	11.107	0.32	3– 3	4547 Massachusetts	7.703	0.27–0.29	3
4378 Voigt	10.796	0.50	2	4553 Doncampbell	13.021	0.29	2 W
4383* Suruga	3.4069	0.14–0.14	3 B	4554 Fanyinka	4.779	0.35–0.40	3 p
4385* Elsässer	5.57	0.52–0.60	3– W	4555 Josefapérez	2.8847	0.21–0.26	3 B?
4388 Jürgenstock	2.80956	0.10–0.11	3	4558 Janesick	100.	>0.11	1
4391 Balodis	3.448	0.29	2	4562 Poleungkuk	9.475	0.73	2 W
4399 Ashizuri	2.829	0.32	3 p	4563* Kahnia	12.416	0.45–0.47	3
4401 Aditi	6.670	0.29–0.64	3	4565 Grossman	4.7429	0.60	3–
4404 Enirac	2.998	0.27	2+	4569 Baerbel	2.737	0.24	3–
4405 Otava	2.879	0.18	2 W	4570 Runcorn	>20.	>0.12	2– p
4410* Kamuimintara	4.9349	0.13	2–	4571 Grumiaux	6.402	0.14	2 W
4411 Kochibunkyo	2.6958	0.20	3	4572 Brage	2.99105	0.31	3–
4417 Lecar	3.1758	0.20–0.38	3	4577 Chikako	5.83	0.55–0.57	3
4418* Fredfranklin	4.8190	0.24–0.30	2+	4580 Child	4.1814	0.30–0.50	3
4419* Allancook	5.2750	0.41–0.66	3–	4585 Ainonai	38.31	0.30	3–
4422 Jarre	5.428	0.12	2	4587* Rees	7.879	0.55–0.78	3
4423 Golden	10.51	0.17	2	4589 McDowell	3.402	0.16	2 W
4424 Arkhipova	14.673	0.45	2 W	4590* Dimashchegolev	25.4	0.23–0.36	2+
4425 Bilk	5.251	0.42	3–	4594 Dashkova	65.423	0.70	2 W
4431* Holeungholee	9.81	0.39–0.52	2+	4600 Meadows	11.682	0.16	2
4432 McGraw–Hill		0.06		4601* Ludkewycz	3.0250	0.33–0.36	3
4433 Goldstone	10.115	0.20	2	4603 Bertaud	U 9.6	0.01	1
4436 Ortizmoreno	8.24	0.09–0.40	2 A	4606 Saheki	4.969	0.56–0.68	3 p
4437 Yaroshenko	30.	0.3	1+	4607 Seilandfarm	3.9683	0.15–0.17	3 B
4440* Tchantchès	2.7883	0.21–0.34	3 B?	4608 Wodehouse	13.944	0.08–0.10	3
4441 Toshie	8.178	0.65	2 W	4611 Vulkaneifel	3.756	0.60–0.70	3 p
4445 Jimstratton	3.74	0.13	2 W	4613 Mamoru	U 5.388	0.41	3
4446* Carolyn	40.92	0.22	3	4614 Masamura	14.4	0.02	1
4448 PhilDavis	14.914	0.73	3	4628 Laplace	11.105	0.32–0.48	2
4450 Pan	56.48	0.64	3 T	4630 Chaonis	5.398	0.11	2 W
4451 Grieve	6.864	0.56–0.80	3	4631* Yabu	7.356	0.44–0.46	3
4452 Ullacharles	9.3085	0.38–0.43	3	4637* Odorico	7.560	0.64–0.72	3
4455 Ruriko	4.23	0.41	2	4638 Estens	3.029	0.16	2–
4456 Mawson		0.20	N	4639 Minox	12.993	0.40	2 W
4457 van Gogh	7.6056	0.12	2–	4640* Hara	3.534	0.15	3–
4459 Nusamaibashi	287.484	0.66	2 W	4641* Ayako	5.3126	0.61–0.88	3 p
4461 Sayama	40.8	0.60–0.71	3–	4643* Cisneros	5.25	0.32–0.33	2 W
4464 Vulcano	3.2038	0.08–0.22	3	4649 Sumoto	26.31	0.15–0.30	2
4467 Kaidanovskij	>12.	0.03	1 p	4652 Iannini	11.69	0.09	2–
4471 Graculus	11.85	0.49	2 W	4653* Tommaso	7.417	0.35	3
4475* Voitkevich	3.89	0.12–0.14	2 W	4654 Gor'kavyj		0.1	N
4477* Kelley	4.3773	0.21	3	4655 Marjoriika	9.624	0.58	3
4479 Charlieparker	2.890	0.22	2 W	4659 Roddenberry	12.	0.14	1
4482 Frèrebasile		0.10	N	4660 Nereus	15.1	0.6 –0.8	2 p T0
4483 Petöfi	4.33309	0.85–1.03	3 p	4663 Falta	9.545	0.15	2 W
4486* Mithra	67.5	1.	2 p RT0	4664* Hanner	3.011	0.30–0.31	2 W

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4666* Dietz	2.95242	0.21–0.26	3 B?	4851 Vodop'yanova	4.9	0.17	2
4670 Yoshinogawa	17.130	0.09	1 W	4852 Pamjones	9.715	0.20	2 W
4673* Bortle	2.63989	0.15–0.16	3	4853 Marielukac	7.946	0.25–0.29	3–
4674 Pauling	2.5306	0.05–0.14	3 p B	4856* Seaborg	15.853	0.41	3
4678 Ninian	56.72	0.93–1.04	3– T?	4858 Vorobjov	11.780	0.20	2 W
4683 Veratar	29.391	0.40	2 W	4859 Fraknoi	7.846	0.15	3
4684 Bendjoya	12.169	0.35	3–	4860 Gubbio	19.36	0.32–0.85	3
4689* Donn	122.5	0.64	2+ T0	4861* Nemirovskij	6.983	0.25–0.26	2 W
4690* Strasbourg	69.2	0.75–0.80	2 T	4863 Yasutani	8.616	0.42	3 W
4703* Kagoshima	4.092	0.03–0.08	2	4867 Polites	11.235	0.09–0.26	3
4706 Dennisreuter	2.578	0.07	1 W	4868 Knushevia	3.1422	0.08–0.12	3 B?
4707 Khryses	6.852	0.38–0.47	3–	4869 Piotrovsky,		0.83	W
4708* Polydoros	7.517	0.09–0.17	3	4870 Shcherban'	3.476	0.20	3–
4709 Ennomos	12.275	0.40–0.47	3	4874 Burke	3.657	0.22–0.23	3–
4711 Kathy	4.164	0.52	3	4875 Ingalls	3.78	0.13	2+
4712 Iwazumi	6.2486	0.22	3	4877 Humboldt	S 3.49121		p Ns
4713 Steel	5.199	0.28–0.44	3	4878 Gilhutton	6.281	0.08	1 W
4714 Toyohiro	14.706	0.07	2 W	4880 Tovstonogov	5.400	0.23	3–
4715 1989 TS ₁	8.8129	0.46–0.54	3	4890 Shikanosima	16.476	0.22	2 W
4716 Urey	5.9260	0.59–0.68	3	4892 Chrispollas		0.10	N
4719* Burnaby	13.01	0.05–0.07	2	4894* Ask	3.636	0.17–0.23	3
4722* Agelaos	18.438	0.15–0.23	3	4895 Embla	14.90	0.19	3–
4724 Brocken	5.912	0.75	3	4896* Tomoegozen	8.869	0.63–0.65	3 p
4727 Ravel	4.44	0.32	3	4898 Nishiizumi	3.289	0.23–0.29	3
4729 Mikhailmil'	17.74	0.36	2–	4899 Candace	40.7	0.15	2
4730 Xingmingzhou	3.396	0.23	2 W	4902 Thessandrus	738.	0.60	2 T
4733* ORO	5.880	0.46–0.47	2 W	4904 Makio	7.830	0.08	2
4734 Rameau	4.354	0.58	2 W	4905 Hiromi	6.0428	0.40–0.55	3
4736 Johnwood	6.210	0.83–0.93	3 p	4908 Ward	10.96	0.93	2
4739* Tomahrens	5.104	0.20–0.26	2 W	4909 Couteau	5.054	1.04–1.10	3
4741 Leskov	>30.	0.1	2– W	4910* Kawasato	4.662	0.10–0.22	3
4742* Caliumi	5.479	0.82	3	4914* Pardina	4.142	0.23–0.28	3
4744 Rovereto	4.0094	0.30–0.44	3	4916 Brumberg	6.683	0.19	2+
4746* Doi	20.903	0.24–0.25	2 W	4917 Yurilovovia	1.1	0.05	1 p
4749* Ledzeppelin	8.1938	0.21	3–	4919 Vishnevskaya	3.634	0.09	2
4751* Alicemanning	15.894	0.49–0.56	2 W	4923* Clarke	3.143	0.03–0.14	2
4754 Panthoos	27.68	0.09	2+	4924 Hiltner	4.9	0.15	1
4755 Nicky	5.057	0.40	3	4925 Zhoushan	7.8656	0.43	3
4756 Asaramas	16.536	0.16	2 W	4927 O'Connell	9.78	0.10	1+
4757* Liselotte	6.619	0.23–0.26	2 W	4928* Vermeer	3.687	0.68–0.78	3
4758 Hermitage	10.1505	0.23	3–	4930 Rephiltim	5.243	0.30–0.32	3
4764* Joneberhart	5.483	0.91–1.17	3 p	4931* Tomsk	7.02	0.46	2
4765* Wasserburg	3.6231	0.07–0.60	3 B	4933* Tylerlinder	3.46	0.23	2 W
4768 Hartley	22.08	0.11	2	4935 Maslachkova	2.90192	0.23	3
4769* Castalia	4.095	1.0	3 p	4936* Butakov	13.828	0.08–0.14	2
4770 Lane	34.75	0.23	2	4937 Lintott	3.123	0.22–0.24	3
4771 Hayashi	9.801	0.38	3–	4943 Lac d'Orient	11.81	0.56	2
4773 Hayakawa	3.2401	0.09	3	4944 Kozlovskij	3.573	0.46	3 W
4774 Hobetsu	3.577	0.23	3	4946 Askalaphus	22.731	0.40	3
4775 Hansen	3.1185	0.12–0.18	3	4949 Akasofu	2.6798	0.1 –0.15	3
4786 Tatjanina	2.9227	0.19–0.25	3 B	4950 House		0.18	N
4787 Shul'zhenko	2.892	0.04	1 W	4951 Iwamoto	118.0	0.34–0.38	3 T0B
4789 Sprattia	3.136	0.17	2 W	4952 Kibeshigemaro	9.166	0.47	3
4790 Petrpravec		0.02	N	4953 1990 MU	14.218	0.68	3
4791 Iphidamas	9.696	0.12–0.49	3	4954 Eric	12.056	0.59–0.80	3 p
4792 Lykaon	40.09	0.43	2+	4956 Noymer	4.366	0.17	2 W
4795 Kihara	16.03	0.25	2	4957 Brucemurray	2.892	0.10–0.38	3 p
4796 Lewis	3.5086	0.28–0.50	3 p	4958* Wellnitz		0.14	N
4797 Ako	4.085	0.90	3	4959* Niinoama	4.73	0.24–0.24	3
4800* Veveri	S 6.21570		p N	4962* Vecherka	336.	>1.08	2
4801 Ohře	32.000	0.50–0.60	3 p	4963* Kanroku	2.616	0.13	3
4803 Birkle	14.576	0.31	2 W	4965 Takeda	12.550	0.35	2 W
4804 Pasteur	13.69	0.28	3	4967 Glia	6.933	0.32	2 W
4805 Asteropaios	12.372	0.26	3	4970 Druyan		0.30	N
4806 Miho	64.083	0.86	3	4971 Hoshinohiroba	7.7	0.7	1
4808 Ballaero	8.8976	0.30–0.36	3	4974 Elford	6.5635	0.43–0.58	3
4816 Connelly	3.8978	0.36	3	4975 Dohmoto	7.553	0.89	2 W
4817 Gliba	>12.	>0.3	1	4976 Choukyongchol	4.419	0.88	2 W
4820 Fay	3.73	0.52	3	4977 Rauthgundis		0.8	
4824 Stradonice	3.890	0.11	2 W	4979 Otawara	2.707	0.22–0.28	3 p
4826 Wilhelms	54.	1.18	2	4986 Osipovia	3.984	0.41	2 W
4827* Dares	18.995	0.23–0.24	3	4990 Trombka	4.927	0.61	2 W
4828 Misenus	12.873	0.33	3	4994 Kisala	39.240	0.75	2 W
4832* Palinurus	5.319	0.09–0.09	2–	4995 Griffin	26.37	0.82	3– p
4833* Meges	14.250	0.13–0.27	3	4996 Veisberg	10.069	0.59	2 W
4834 Thoas	18.192	0.14–0.39	3	4997 Ksana	3.4342	0.21	2
4836 Medon	9.818	0.22–0.31	3	4998 Kabashima	6.138	0.77	2 W
4838 Billmclaughlin	5.199	0.07	2	5003 Silvanominuto	4.760	0.13	2 W
4841* Manjiro	2.66	0.09	2 W	5004 Bruch	3.4566	0.71	3
4844 Matsuyama	2.7232	0.35	3	5006 Teller	10.898	0.69	3 p

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5008 Miyazawakenji	13.52	0.18	2 p W	5181 SURF	6.1097	0.52–0.54	3
5009 Sethos	2.691	0.08	2 W	5182 Bray	2.883	0.31	N
5010* Amenemhêt	3.390	0.18–0.18	3–	5184 Cavallé–Coll	15.642	0.32	2 W
5011 Ptah		>1.5		5186 Donalu	3.15	0.25	3–
5012* Eurymedon	46.	0.30	1+	5187* Domon	7.524	0.30–0.38	2 W
5013 Suzhousanzhong	8.356	0.24	2 W	5191 Paddack	5.865	0.08	1 W
5016 Migirenko	4.8	0.3	1	5192 Yabuki	10.6693	0.36	3–
5017 Tenchi	6.298	0.61	2 W	5193* Tanakawataru	5.336	0.30–0.31	2 W
5023 Agapenor	5.4020	0.12	2+	5195 Kaendler	5.33756		p Ns
5025 1986 TS ₆	250.	0.2	1	5199 Dortmund		<0.1	
5026 Martes	4.4243	0.50–0.69	3 p	5202 Charleseliot	183.	0.58	2 T?
5027* Androgeos	11.376	0.31–0.65	3	5204* Herakleitos	3.71	0.16	2 W
5028* Halaesus	24.937	0.23–0.29	3	5208 Royer	3.866	0.44	2 p
5029 Ireland			2	5211* Stevenson	14.18	0.31–0.33	3
5034 Joe Harrington	8.417	0.36	3	5212 Celiacruz	5.598	0.26	2 W
5035 Swift	9.4752	0.31–0.32	3	5215 Tsurui	3.81	0.20–0.24	3
5036 Tuttle	3.775	0.28–0.42	3	5216 1941 HA	32.206	0.46	2 W
5038 Overbeek	4.038	0.39	2 W	5217* Chaozhou	11.3	0.55–0.56	2 W
5039 Rosenkavalier	8.715	0.22	2 W	5220 Vika	5.068	0.15	2 W
5040 Rabinowitz	4.6901	0.31–0.35	3	5222* Ioffe	19.4	0.27–0.28	2
5041 Theotes	6.52	0.35	3–	5226 Pollack	2.725	0.30	2
5042 Colpa		0.10		5228 Máca	9.857	0.59	2 W
5043* Zadornov	25.60	0.18	1 DAW	5229* Irurita	5.373	0.44–0.48	2 W
5044* Shestaka	7.2573	0.17–0.18	3–	5230 Asahina	89.3	0.67	3 T–
5046 Carletonmoore	6.050	0.21	2	5231 Verne	4.320	0.84	3 p
5048 Moriarty	232.891	0.69	2 W	5232* Jordaens	10.58	0.80	2
5052 Nancyruth	17.204	0.89	3	5234 Sechenov	12.067	0.22–0.69	1
5053 Chladni	8.2618	0.25	3–	5235 Jean–Loup		0.09	N
5063* Monteverdi	3.48	0.61	2 W	5236 Yoko	2.7692	0.30–0.44	3–
5064 Tanchozuru	8.13	0.7	2–	5237 Yoshikawa	3.470	0.33	2 W
5070 Arai	53.	>0.30	2	5240 Kwasan	5.675	0.42–0.49	2+
5076 Lebedev–Kumach	3.219	0.14	2–	5241 Beeson	6.669	0.73	2 W
5080 Oja	7.2220	0.31–0.39	3	5244* Amphilochos	9.766	0.51–0.79	3 A
5081 Sanguin	10.262	0.53	3–	5247 Krylov	81.5	1.5	2 T+
5084 Gnedin	35.785	0.23	2 W	5251 Bradwood	4.301	0.30	2 W
5087 Emel'yanov	14.5	0.30	2–	5253 Fredclifford	3.053	0.17–0.21	3
5088 Tancredi	5.0591	0.31	3–	5254* Ulysses	28.72	0.32–0.33	3
5089 Nádherná	13.031	0.34	2 W	5256* Farquhar	11.513	0.07	2
5091* Isakovskij	13.62	0.53	1 DAW	5258 1989 AU ₁	19.85	0.14	2+
5092 Manara		0.10	N	5259 Epeigeus	18.42	0.10	2
5095* Escalante	8.542	0.10–0.54	2	5260 Philvéron	8.247	0.47	2 W
5096 Luzin	3.054	0.31	3–	5261 Eureka	2.6902	0.06	3 B
5098* Tomsolomon	4.59	0.23–0.24	2 W	5262 Brucegoldberg	16.410	0.12–0.75	2+
5101 Akhmerov	4.270	0.33	2 W	5263 Arrius	6.907	0.54	2 W
5104 Skripnichenko	2.82708	0.21–0.30	3	5264* Telephus	9.525	0.20–0.47	3
5105 Westerhout	13.0881	0.54	3	5267 Zegmott	5.212	0.31	2 W
5107 Laurenbacall	4.946	0.17	2 W	5268* Černohorský	15.60	0.08	1 DAW
5108 Lübeck	8.769	0.43	3	5271 Kaylamaya	2.776	0.23	2 W
5110* Belgirate	8.26	0.12–0.12	2	5274 Degewij	7.5802	0.19	2
5111 Jacliff	2.839	0.18	3 p	5275 Zdislava	5.2008	0.52–0.54	3
5112* Kusaji	2.7995	0.12		5279* Arthuradel	6.476	0.28	3–
5116 Korsør	4.503	0.36	3	5283* Pyrrhus	7.323	0.11	2
5118 Elnapoul	36.137	0.37	3	5284 Orsilocus	10.31	0.12–0.20	2+
5119 1988 RA ₁	12.807	0.31	2+	5285 Kethon	12.04	0.33–0.46	2
5120 Bitias	15.21	0.32–0.38	3	5287 Heishu	15.731	0.10	2 W
5123 1989 BL	9.883	0.40–0.45	3 A	5288* Nankichi	12.763	0.19–0.22	2
5126 Achaemenides	53.02	0.36	3–	5292 Mackwell	2.8956	0.42	3
5128 Wakabayashi	5.86	0.13	2–	5294 Onnetoh	3.556	0.44	3–
5129 Groom	3.6395	0.17–0.23	3	5296 Friedrich	7.103	0.24	2 W
5130* Ilioneus	14.768	0.16–0.37	3	5299 Bittesini	4.67966		p Ns
5131 1990 BG	37.2	0.34	2–	5307 Paul–André	5.343	0.58	3
5132 Maynard	3.902	0.58	3	5313 Nunes	2.798	0.18–0.28	3
5133 Phillipadams	6.6645	0.40–0.46	3	5316 Filatov	1061.376	0.07	1 W
5139 Rumoi	3.257	0.4	3	5317 Verolacqua	3.022	0.60	3– p
5142* Okutama	3.803	0.27–0.27	3	5318* Dientzenhofer	8.062	0.84	3
5143 Heracles	2.7063	0.05–0.20	3 RB	5323 Fogh	15.549	0.61	2 W
5144 Achates	5.958	0.20–0.35	3	5325* Silver	4.02361	0.13–0.28	3 p
5145 Pholus	9.980	0.15–0.60	3 p	5326 Vittoriosacco	>6.		N
5148 Giordano	7.824	0.60	2 W	5327* 1989 EX ₁	8.71997	0.90–1.34	3
5150* Fellini	5.1953	0.45–0.61	3 p	5329 Decaro	24.460	0.84	2 W
5153* Gierasch	9.00	0.07	2	5330 Senrikyu	14.44	0.08	2
5156 Golant	4.942	0.21	2 W	5331 Erimomisaki	24.26	0.27–0.42	3–
5163 Vollmayr–Lee	4.728	0.15	2	5332* Davidaguilar	5.803	0.35–1.10	3 p
5165* Videnom	3.1535	0.19–0.24	3	5333 Kanaya	3.8022	0.15–0.22	3
5168 Jenner	3.258	0.24–0.30	3	5334 Mishima	2.9760	0.14	3
5169 Duffell	8.711	0.25	2 W	5342 Le Poole	12.5495	0.45	3
5171 Augustesen	480.	0.8	3 T?	5349* Paulharris	7.890	0.06–0.18	3–
5175 Ables	2.798	0.06–0.10	3	5350* Epetersen	5.025	0.24–0.28	3–
5176 Yoichi		0.42	N	5357* Sekiguchi	5.41	0.27–0.72	3
5177 Hugowolf	3.650	0.40	2 W	5362 1978 CH	6.879	0.19	2 W

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5364 1980 <i>RC</i> ₁	19.	0.14	1	5535* Annefrank	15.12	0.17–0.25	2 A
5368* Vitagliano	59.36	0.29–0.30	2+	5536* Honeycutt	3.5830	0.09	3 B
5369* Virgiugum	5.8422	0.13–0.26	3–	5537 Sanya	3.427	0.85	2 W
5370 Taranis		0.02		5541 Seimei	25.820	0.30	2 W
5374 Hokutosei	6.7592	0.50–0.60	3	5542* Moffatt	5.187	0.12	2+
5376* 1990 <i>DD</i>	6.2346	0.28–0.70	3	5551 Glikson	91.43	0.90	2
5378 Ellyett	47.32	0.48	2 T+	5557* Chimikeppuko	4.168	0.35–0.46	2 W
5380 Sprigg	3.219	0.68	3–	5558 Johnnapier	73.9	0.70	2
5381* Sekhmet	2.8233	0.36–0.36	3 B	5559* 1990 <i>MV</i>	14.971	0.37–0.49	3
5382 McKay	21.486	0.86	2 W	5560 Amytis	7.732	0.44–0.50	3–
5384 Changjiangcun	12.5109	0.38–0.76	3	5561 Iguchi	112.4	0.43	2 T0
5385* Kamenka	6.683	0.15–0.26	2	5563* 1991 <i>VZ</i> ₁	3.223	0.30	3–
5386 Bajaja	16.841	0.25	3	5567 Durisen	7.001	0.22	3
5390 Huichiming	111.	0.60–0.75	2+ T0	5570 Kirsan	4.146	0.19	2 W
5391 Emmons	3.028	0.16	2	5571 Leslielgreen	6.953	0.16	2
5392 Parker			1	5573 1981 <i>QX</i>	10.685	0.83	2+
5394 Jurgens	6.073	0.21	2 W	5574 Seagrave	4.6629	0.25	3
5396 1988 <i>SH</i> ₁	8.492	0.31	2 W	5575* Ryanpark	4.840	0.38–0.48	2 W
5397 Vojislava	>24.	0.05	1	5577 Priestley	160.	0.35–0.85	3– T
5401 Minamioda	3.949	0.11	2– A	5579* Uhlherr	4.52	0.18–0.20	2
5404 Uemura	3.449	0.10–0.13	3	5580 Sharidake	14.58	0.37–0.39	3
5405 Neverland	3.181	0.20	2 W	5582 1989 <i>CU</i> ₈	4.500	0.23	2 W
5406 Jonjoseph	3.555	0.57	2 W	5585 Parks	10.377	0.24	2
5407 1992 <i>AX</i>	2.5488	0.10–0.12	3 B	5587 1990 <i>SB</i>	5.0522	0.68–1.26	3 p
5408 Thé	7.374	0.68	2 W	5592 Oshima	12.54	0.28	2
5410* Spivakov	6.62	0.17–0.18	2 W	5593* Jonsujatha	42.	0.38	1
5411 Liia	12.609	0.22	2 W	5594 Jimmiller	25.264	0.67	2 W
5417* Solovaya	3.8329	0.09	2+	5595 Roth		0.10	3 N
5418* Joyce	20.96	0.42–0.53	2	5596 Morbidelli	5.4000	0.57	3 p
5421 Ulanova	9.814	0.60	2+	5598 Carlmurray	2.9226	0.32	3
5424 Covington	5.0	0.21	2	5599* 1991 <i>SG</i> ₁	3.6195	0.26–0.36	3 p
5425 Vojtěch	2.64759	0.25–0.27	3	5603 Rausudake	6.79	0.30	3
5426 Sharp	4.5609	0.18–0.25	3 B?	5604 1992 <i>FE</i>	5.3375	0.10–0.15	3
5427 Jensmartin	5.810	0.44–0.64	3	5614 Yakovlev	9.713	0.55	3
5430 Luu	13.55	0.05–0.06	2	5615 Iskander	5.4150	1.05–1.1	3
5431 Maxinehelin	5.1951	0.18–0.25	3	5619 Shair	5.0643	0.48–0.94	3
5435 Kameoka	6.562	0.26	2 W	5620 Jasonwheeler	5.307	1.2 –1.55	3
5436* Eumelos	38.41	0.44–0.68	3	5621 Erb	8.027	0.10	3–
5438 Lorre	26.	0.11	2	5622 1990 <i>TL</i> ₄	3.6785	0.32	3
5439 Couturier	>50.	>0.47	2	5626 1991 <i>FE</i>	2.4606	0.07	2
5440 Terao	50.32	1.0	3	5629 Kuwana	5.197	0.24	2 W
5446* Heyler	6.985	0.47	2+	5630 Billschaefer	69.	0.9	2– T0
5448 Siebold	2.9546	0.31–0.53	3	5633 1978 <i>UL</i> ₇	7.212	0.53	3
5449* 1992 <i>US</i> ₅	3.329	0.24–0.41	2	5635 Cole	5.7937	0.30–0.33	3
5450* Sokrates	5.9822	0.20–0.37	2+	5636* Jacobson	4.90	0.25	2 W
5451* Plato	6.19	0.50	2 W	5638 Deikoon	19.40	0.07–0.14	2
5452 1937 <i>NN</i>	3.2562	0.39–0.50	3	5639 Cuk	23.30	0.09–0.15	1
5453 Zakharchenya	4.157	0.28	2 W	5641 McCleese	418.	0.06–1.3	2 T0
5457 Queen's	4.326	0.19	2 W	5642 Bobbywilliams	4.8341	0.50	3
5467 1988 <i>AG</i>	16.085	0.58	2 W	5643* Roques	7.78	0.30	1 DAW
5468 Hamatonbetsu	42.02	0.43	2	5645 1990 <i>SP</i>	30.39	0.7	2 T
5472* 1988 <i>RR</i>	5.092	0.21–0.25	2 W	5646 1990 <i>TR</i>	3.1999	0.12–0.32	3 B?
5474* Gingasen	3.6242	0.11–0.18	3 B?	5647 1990 <i>TZ</i>	6.144	0.11–0.45	3 p
5475 Hanskennedy	66.9	0.63	2	5648* 1990 <i>VU</i> ₁	37.56	0.19–0.22	3–
5476 1989 <i>TO</i> ₁₁	5.780	0.30	2	5652* Amphimachus	8.374	0.22	2+ HW
5477 Holmes	2.9940	0.10–0.12	3 B	5653 Camarillo	4.834	0.4 –0.85	3
5479 Grahamryder	7.60	0.30	2 A	5654 Terni	9.255	0.24–0.41	2
5481 Kiuchi	3.6196	0.08–0.10	3 B	5655 Barney	2.661	0.20	2 W
5483 Cherkashin	6.148	0.22	3	5656 Oldfield			2
5484 Inoda	14.1479	0.09–0.16	3	5660 1974 <i>MA</i>	17.5	>0.3	2 N
5486 1991 <i>UT</i> ₂	17.90	0.25	2+	5661 Hildebrand	13.61	0.21	2
5488* Kiyosato	8.787	0.70–0.71	2 p W	5670 Rosstaylor	6.971	0.32	2 W
5489* Oberkochen	5.625	0.40–0.59	3 p	5672* Libby	131.056	0.46–0.66	2 W
5492* Thoma	3.315	0.27–0.32	2+	5673* McAllister	5.81	0.59–0.62	3 W
5494 Johanmohr	5.727	0.98	2 p s	5674 Wolff	93.7	0.52–0.70	3 B
5496* 1973 <i>NA</i>	2.855	0.15–0.15	3	5676 Voltaire	5.039	0.05–0.12	2+
5499 1981 <i>SU</i> ₂	3.6925	0.27	3	5677 Aberdonia	5.081	0.20	2 W
5501* 1982 <i>FF</i> ₂	2.46	0.17	1 W	5681* Bakulev	5.77394	0.99	3
5506 Artiglio	9.406	1.01	2 W	5682 Beresford	3.769	0.08–0.20	3–
5508 Gomyou	8.802	0.37	2 W	5685 Sanenobufukui	3.388	0.68–0.70	3 p
5510 1988 <i>RF</i> ₇	3.2	0.05	1+	5690 1992 <i>EU</i>	5.	0.2	2
5511 Cloanthus	336.	>0.49	2– T0	5691 Fredwatson	106.0	1.2	3–
5515* Naderi	5.230	0.47–0.58	3	5692 Shirao	2.8878	0.12–0.16	3
5518* Mariobotta	105.538	0.54–0.56	2 W	5693* 1993 <i>EA</i>	2.496	0.05–0.10	2+
5521 Morpurgo	6.191	0.89	2 W	5701 Baltuck	4.8328	0.70	3–
5523 Luminet	53.326	0.31	2 W	5702 Morando	9.5	0.62	3
5524 Lecacheux	8.4160	0.78	3	5707 Shevchenko	3.0081	0.46	3–
5525* 1991 <i>TS</i> ₄	14.088	0.21–0.41	3–	5709* Tamyenleung	3.562	0.24	3–
5527 1991 <i>UQ</i> ₃	4.2554	0.16	3	5711 Eneev	>30.	>0.1	1
5534 1941 <i>UN</i>			2	5712* Funke	3.9481	0.51–0.84	3

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5713 1982 <i>FF</i> ₃	7.000	0.07	1 W	5909* Nagoya	3.784	0.24	3
5714 Krasinsky	18.184	0.45	2 W	5913 1990 <i>BU</i>	52.	0.10	1
5716 Pickard	9.6	0.03	1	5914 Kathywhaler	38.730	0.10–0.22	1 W
5720 Halweaver	3.8883	0.55	3	5915* Yoshihiro			HNW
5723 Hudson	4.47511		p Ns	5917 Chibasai	2.65	0.30–0.36	3
5724 1986 <i>WE</i>	9.826	0.56	2 W	5920* 1992 <i>SX</i> ₁₇	2.93681	0.18	3–
5730* Yonosuke	5.45	0.31	2 W	5925* 1994 <i>CP</i> ₁	5.4002	0.50–0.54	3
5732 1988 <i>WC</i>	3.1	0.3	2	5929* Manzano	3.7596	0.72–1.01	3 p
5733 1989 <i>AQ</i>	157.767	0.66	2 W	5931 Zhvanetskij	12.006	0.63	3–
5736 Sanford	3.1846	0.42	3	5940 Feliksobolev	7.620	0.23–0.30	3–
5738 Billpickering	10.4	0.45	3 p	5941 Valencia	10.16	1.10	2 W
5740 Toutoumi	11.68	0.33	3–	5949 1985 <i>RL</i> ₃	3.5940	0.29	3
5743 Kato	14.269	0.52	2 W	5951 Alicemonet	3.8871	0.46	3
5745* 1991 <i>AN</i>	4.087	0.92	3	5953 Shelton	>18.	>0.1	N
5747 1991 <i>CO</i> ₃	196.45	0.30–0.71	2+	5967 Edithlevy	66.	0.7	3– T
5750 Kadatai	9.264	0.50	3–	5968 Trauger	3.7879	0.09–0.36	3
5751* Zao	76.	0.1 –0.2	2 T0	5971 Tickell	2.99705	0.13	3
5752 1992 <i>CJ</i>	86.	0.80	2 T0	5978 Kaminokuni	7.063	0.50	3
5754* 1992 <i>FR</i> ₂	8.9021	0.70–0.97	3 p	5985* 1942 <i>RJ</i>	9.7212	0.11–0.18	3
5759* Zoshchenko	4.203	0.55–0.61	2 W	5986* Xenophon	6.921	0.36–0.40	3
5761* Andreivanov	11.68	0.82–0.85	2	5993 Tammydickinson	S 9.44711		p Ns
5762 Wänke	3.835	0.23	2 W	5999 Plescia	5.392	0.69–0.95	3
5769 Michard	3.350	0.37	2 W	6000 United Nations	3.262	0.45	3 p
5770* 1987 <i>RY</i>	13.91	0.51–0.56	2+ W	6002 1988 <i>RO</i>	12.918	0.18	3–
5771 Somerville	9.20	0.80	2+ A	6003* 1988 <i>VO</i> ₁	104.406	0.42	2 W
5772 Johnlambert	3.289	0.17	2 W	6009 Yuzuruyoshii	3.0302	0.10–0.15	3
5773* 1989 <i>NO</i>	108.986	0.72–0.74	2 W	6010 Lyzenga	4.5955	0.17	3–
5774 Ratliff	61.	>0.6	2 T0	6012 Williammurdoch	2.894	0.16	3–
5775 Inuyama	4.8345	0.57	3	6016* 1991 <i>PA</i> ₁₁	2.8028	0.07	3 B
5776 1989 <i>UT</i> ₂	4.34079		p Ns	6019* Telford	5.760	0.34–0.38	3
5778 Jurafrance	4.14	0.27	2–	6024* Ochanomizu	6.00	0.51	1 W
5783 Kumagaya	3.658	0.18–0.22	3	6025 Naotosato	>10.	>0.2	1
5784 Yoron	11.046	0.41	2 W	6026* Xenophanes	4.490	0.39–0.40	2 p W
5786 Talos	38.52	0.23	NT0	6028* 1994 <i>ER</i> ₁	3.53	0.63–0.64	2 W
5787 1992 <i>FA</i> ₁	4.0176	0.20–0.22	3	6029 Edithrand	14.472	0.11–0.15	2+
5796 Klemm	3.929	0.50	2 W	6033 1984 <i>SQ</i> ₄	35.53	0.31	2
5797 Bivoj	2.706	0.12–0.17	3	6035 Citlaltépetl	17.9	0.45	2
5802 Casteldelpiano	2.971	0.10	2 W	6037 1988 <i>EG</i>	2.760	0.2	2 A
5803 Otzi	3.634	0.43	2 W	6041 Juterkilian	13.57	0.75	1
5804 Bambinidipraga	11.379	0.39	2	6042 Cheshirecat	10.050	0.20–0.40	3–
5806 Archieroy	12.163	0.34–0.47	3	6043 Aurochs		0.45	N
5807 Mshatka	129.751	0.63	2 W	6050 Miwablock	5.7566	0.28–0.87	3
5808* Babel	30.1	0.47	2	6052 Junichi	17.173	0.15	2 W
5811 Keck	>30.	>0.25	2	6053 1993 <i>BW</i> ₃	2.573	0.03–0.50	3 p A
5815 Shinsengumi	37.923	0.36	2 W	6056 Donatello	6.224	0.20	2 W
5817 Robertfrazier	4.051	0.22–0.33	3	6057* Robbia	5.801	0.35–0.54	2 W
5819 Lauretta	5.361	0.43	2 W	6060 Doudleby	11.878	0.65	2 W
5823 Oryo	2.801	0.31–0.42	2 W	6062 Vespa	8.407	0.35	2 W
5826* Bradstreet	5.55	0.63	2 W	6063 Jason	51.7	0.11	2 T
5827 Letunov		0.97	W	6065 Chesneau	33.15	0.20	2
5828 1991 <i>AM</i>	2.6666	0.15	3 B?	6066 Hendricks	5.780	0.63	2+
5830 Simohiro	58.052	0.89	2 W	6067 1990 <i>QR</i> ₁₁	87.492	0.44	2 W
5831 Dizzy	9.074	0.32	2 W	6070 Rheinland	4.27333	0.40–0.58	3 p
5832 Martaprincipe		0.16	N	6071 Sakitama	4.437	0.09	3–
5833* Peterson	27.441	0.24–0.29	2 W	6072* Hooghoudt	4.268	0.63–0.67	2 W
5836* 1993 <i>MF</i>	4.9543	0.53–0.88	3 p	6073 1939 <i>UB</i>	5.897	0.20	3
5837 Hedin	7.726	0.69	2 W	6083 Janeirabloom	10.151	0.23	2
5839 GOI	6.303	0.35	3	6084 Bascom	2.74542	0.14–0.23	3 B
5841* Stone	2.890	0.04–0.11	3 p	6085 Fraethi	5.556	0.15–0.79	3
5847 Wakiya	23.95	0.10	1	6087 Lupo	4.712	0.55–0.66	3 p
5849 1990 <i>HF</i> ₁	8.733	0.60	3	6088 Hoshigakubo	12.520	0.39	2 W
5851 Inagawa	367.5	0.90	3 T?	6090 1989 <i>DJ</i>	18.476	0.09–0.16	2+
5854 1992 <i>UP</i>	7.1296	0.27–1.00	3	6091 Mitsuru	5.853	0.80	3
5855 Yukitsuna	19.04	0.8	2+	6094* Hisako	4.050	0.14–0.22	1+
5858 Borovitskia	7.553	0.18–0.40	3	6095 1991 <i>UU</i>	>80.	>0.3	2
5863 Tara	5.867	0.17–0.19	2+	6097* Koishikawa	2.85979	0.13–0.17	3
5868 Ohta	12.631	0.43	2 W	6098 Mutojunkyu	2.779	0.18	3
5870 Baltimore		0.3	N	6102 Visby	3.28	0.28	2+
5871 Bobbell	30.21	0.27–0.35	3–	6107* Osterbrock	2.372	0.09–0.09	3 W
5872* Sugano	3.3642	0.11	3 B	6108 Glebov	2.8310	0.22	2
5874 1989 <i>XB</i>		0.06	N	6113* Tsap			HNW
5875* Kuga	5.551	0.24–0.35	3 p	6116 Still	8.513	0.55	2 W
5876 1990 <i>DM</i> ₂	5.441	0.43	2 W	6121 Plachinda	4.0863	0.35	3
5877 Toshimaihara	8.91	0.09	2	6122 Henrard	9.16	0.26	3–
5878 Charlene	7.0584	0.20–0.21	3	6131 Townen	6.770	0.25	2 W
5891 Gehrig	3.57	0.76	3 W	6135* Billowen	28.463	0.27–0.39	2 W
5892 Milesdavis	10.59	0.26	3	6136* Gryphon	16.476	0.60–0.61	3 p
5894 Telč	17.65	0.66	2+ W	6138* Miguelhernández	5.457	0.29–0.37	3
5899* Jedicke	2.7481	0.03–0.11	3 B	6139 Naomi	21.35	0.20	2+
5905 Johnson	3.7824	0.08–0.20	3 B	6141 Durda	460.	0.50	2+ T0

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6144 Kondojiro	4.0	0.03	1	6361 Koppel	9.1122	0.67	3
6146* Adamkrafft	6.964	0.18-0.44	3	6369* 1983 UC	2.39707	0.08	3 B
6153 Hershey	6.094	0.06	2-	6375 Fredharris	13.316	0.64	2 W
6155* Yokosugano	3.28234	0.14-0.24	2+	6376 Schamp	6.6093	0.16	3
6158* Shosanbetsu	16.757	0.13-0.18	3	6377 Cagney	4.171	0.20	3
6159 Andréseley	10.639	0.78	3 p	6378 1987 SE ₁₃	6.120	0.45	2 W
6160 Minakata	11.5	0.09	2-	6379 Vrba	5.11	0.30	3
6161 Vojno-Yasenetsky	7.98095		p Ns	6381 Toyama	27.	0.13	2-
6163* Reimers	6.68	0.77-1.22	3	6382* 1988 EL	2.895	0.06-0.20	3
6166 Univisima	9.6	>0.6	2 p	6384* Kervin	3.6203	0.06-0.16	3 B
6168* Isnello	10.466	0.27-0.31	2 W	6385* Martindavid	5.476	0.43-0.51	2 W
6169 Sashakrot	250.055	0.39	2 W	6386 Keithnoll	3.1381	0.08	2+
6170 Levasseur	2.6529	0.09-0.14	3	6388 1989 WL ₁	3.870	0.30	3
6172 Prokofeana	6.540	0.35	3	6392 Takashimizuno	21.81	0.48	2
6173 Jimwestphal	2.908	0.36-0.41	3	6393 1990 HM ₁	32.70	0.24	2
6174 Polybius	8.712	0.54	2 W	6394 1990 QM ₂	3.6873	0.25-0.39	3
6178 1986 DA	3.50	0.31-0.48	3	6398 Timhunter	14.55	0.29-0.32	3
6179 Brett	9.403	0.67-0.70	3 p	6399 Harada	11.02	0.36	3-
6181 Bobweber	2.75796	0.12-0.15	3	6400 Georgealexander		0.20	N
6183* Viscome	453.	0.68-0.90	3-	6401 Roentgen	15.96	0.35-0.67	2+
6185 Mitsuma	21.05	>0.34	3-	6402 Holstein		0.1	N
6186* Zenon	2.6832	0.08	NM	6403 Steverin	3.4905	0.35-0.47	3 p
6189 Völk	2.896	0.18	3	6405 Komiyaama	19.855	0.13	2 A
6192* Javiergorosabel	78.85	0.2 -0.95	3 p T+	6406* Mikejura	6.819	0.65-1.18	3 p
6200 Hachinohe	78.327	0.41	2 W	6407 1992 PF ₂	3.14	0.22	3
6210 Hyunseop	2.918	0.25	2 W	6409 1992 VC	3.1490	0.50	3
6212* Franzthaler	6.898	0.27-0.63	2	6410* Fujiwara	7.0073	0.60-0.85	3 p
6217 Kodai	3.613	0.06	1 W	6411 Tamaga	8.383	0.29-0.34	3
6221 Ducentesima	13.788	0.34-0.41	2 W	6413 Iye	4.664	0.15	2 W
6223 Dahl	3.33	0.43	2	6418 Hanamigahara	6.3770	0.33	3
6229 Tursachan	16.596	0.57	2 W	6422* Akagi	7.74756	0.77	2 p W
6234 Sheilawolfman	11.784	0.75	2 W	6425 1994 WZ ₃	103.9	0.92	2 TO
6235 Burney	15.515	0.60	3	6427 1995 FY	6.195	0.84	2 W
6236* Mallard	176.266	0.62-0.83	2 W	6432* Temirkanov	5.71	0.42	2 W
6237 Chikushi	7.812	0.23	2 W	6433 Enya	7.400	0.08	1 W
6238 1989 NM	10.819	0.60	2 W	6434 Jewitt	3.237	0.28	2 W
6239 Minos	3.5558	0.08-0.10	N	6435 Dayeross	51.25	0.10-0.67	3-
6241 Galante	20.151	0.06	1 W	6438 Suárez	2.9416	0.15-0.20	3
6244 Okamoto	2.8958	0.11-0.15	3 B	6444* Ryuzin	7.9290	0.76-0.98	3
6246* Komurotoru	3.277	0.39-0.51	3	6447* Terrycole	10.278	0.21-0.25	3-
6247* Amanogawa	12.38	0.38-0.48	3	6453 1991 NY	15.	0.20	N
6249 Jennifer	4.9566	0.06-0.49	3	6454 1991 UG ₁	9.8017	0.53	3
6250 Saekohayashi	82.6	0.78	2+	6455 1992 HE	2.736	0.09-0.21	2+ A
6254 1993 UM ₃	7.040	0.31	3-	6456 Golombek	2.50129	0.10-0.13	3
6255 Kuma	9.70	0.15	2	6458 Nouda	4.201	0.60-0.92	3 p
6258* Rodin	6.1	0.03	1	6460* Bassano	2.914	0.29-0.38	2 W
6260 Kelsey	5.11	0.17	2	6461 Adam	74.	0.30-0.76	2 T
6261 Chione	5.3334	0.75	3	6463 Isoda	6.15	0.21	3-
6262* Javid	8.02	0.45-0.49	3 p	6469* Armstrong	5.965	0.65-0.70	2 W
6263 1980 PX	3.464	0.05	1	6470 Aldrin	5.994	0.82	2 W
6265 1985 TW ₃	2.70932	0.26-0.36	3 B	6475 Refugium	8.07	0.45-0.70	3
6267* Rozhen	3.98	0.12-0.14	2 W	6476 1987 VT	10.7973	0.42-0.57	3
6271 Farmer	250.	0.13-0.22	2 T?	6477* 1988 AE ₅	37.589	0.51-0.63	2 W
6274 Taizaburo	3.13	0.30	3-	6479 Leoconnolly	5.11	0.75	3
6276* Kurohono	6.345	0.85-0.87	2 p s	6481 Tenzing	6.517	0.13	2 W
6279 1977 UO ₅	9.964	0.49	2 W	6485 Wendeesther	74.82	1.00	2 TO
6287 Lenham	5.623	0.45	2 W	6487 Tonyspear	74.91	1.24	3- p T-
6296 Cleveland	30.84	0.11-0.70	3	6488* Drebach	4.1270	0.48	3
6302 Tengukogen	3.092	0.46	1+	6489 Golevka	6.026	0.28-1.03	3 p
6306 Nishimura	9.690	0.41-0.65	3-	6490 1991 NR ₂	4.468	0.26	2+
6307 Maiztegui	4.68	0.15	2	6491 1991 OA	2.69	0.08	2
6310 Jankonke	3.076	0.06-0.30	3	6493 Cathybennett	3.4785	0.19-0.23	3
6317 Dreyfus	5.25	1.03	3	6495* 1992 UB ₁	5.693	0.29-0.38	3
6321 Namuratakao		0.06	3 N	6497 Yamasaki	9.879	0.56	3
6322 1991 CQ	4.323	0.70	3	6498 Ko	>500.	0.6	2 TO
6326 Idamiyoshi	3.138	0.27-0.31	3	6499* Michiko	6.004	0.57-0.74	2 W
6327 Tijn	18.199	0.06	2	6500* Kodaira	5.400	0.52-0.80	3
6329 Hikonejyo	6.064	0.18-0.23	3-	6502 1993 XR ₁	4.1931	0.13-0.18	3 B?
6330* Koen	51.604	0.53-0.65	2 W	6505 Muzzio	13.735	0.10	2+
6331* 1992 FZ ₁	9.333	0.28-0.60	2+	6509 Giovanniprati	14.115	0.17	3-
6335 Nicolerappaport	4.272	0.36	3-	6510 Tarry	6.370	0.50-0.54	3 p
6344* 1993 VM	8.24	0.82	1 DAW	6511 Furmanov	5.343	0.20	3-
6347 1995 BM ₄	7.739	0.35	2 W	6514* Torahiko	8.7207	0.08	2
6348* 1995 CH ₁	3.085	0.15-0.19	2 W	6516 Gruss	13.003	0.09	1
6349 Acapulco	4.376	0.18	2 W	6517 Buzzi	8.648	0.64-0.84	3 p
6350 Schlüter	13.190	0.31	3-	6518 Vernon	4.88249	0.52-0.54	3
6352* Schlaun	13.87	0.67-0.70	2+	6521 Pina	2.911	0.05	2+
6353 Semper	>24.	0.95	2	6522 Aci	7.692	0.68	2 W
6354 Vangelis	4.039	0.36-0.54	3-	6532 Scarfe	4.932	0.43	2 W
6355* Univermoscow	44.027	0.24-0.55	2 W	6534 Carriepeterson	14.291	0.22	2 W

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Planet	Period	Variation	Note	Planet	Period	Variation	Note
6535 Archipenko	6.507	0.20	2 W	6793* Palazzolo	6.231	0.14–0.16	2 W
6536 Vysochinska	6.109	0.53	2+	6794 Masuisakura	4.58	0.62	3
6537 Adamovich	2.4	0.13	1 W	6795* Örnköldsvik	13.947	0.37–0.45	2 W
6538 Muraviov	2.9759	0.24	2+	6801 Strékov	6.173	0.17	2
6539* Nohavica	5.80	0.66	1 DAW	6805 Abstracta	152.183	0.78	2 W
6543 Senna	3.30	0.19	3–	6808 Plantin	5.82	0.32	1
6545 1986 TR ₆	16.26	0.31	2+	6815 Mutchler	2.4384	0.09	3– B?
6546* Kaye	10.006	0.32–0.34	2 W	6821 Ranevskaya	2.81	0.10	2+
6553 Seehaus	3.991	0.55	2 W	6823 1988 ED ₁	2.546	0.10–0.30	3
6555 1989 UU ₁	12.6778	0.27	3–	6825* Irvine	3.61588	0.58–0.70	3
6556 Arcimboldo	2.5158	0.16–0.24	3	6827* Wombat	40.132	0.25–0.34	2 W
6560* Pravdo	19.229	0.50–0.72	3–	6829 Charmawidor	27.824	0.28	2 W
6561* Gruppetta	3.4	0.54–0.66	3– W	6835 Molfino	3.690	0.25	2 W
6568 Serendip	>16.	>0.35	2– W	6838 Okuda	8.983	0.14	2+
6569* Ondaatje	5.959	0.70–0.98	2	6840 1995 WW ₅	482.274	0.46	2 W
6570 Tomohiro	9.965	0.51	2 W	6847 Kunz–Hallstein	6.4030	0.27–0.31	3
6572 Carson	2.8235	0.33	3	6851 Chianti	3.195	0.09	1 W
6574 Gvishiani		0.20	N	6852 Nannibignami	3.025	0.47	2 W
6577 Torbenwolff	6.984	0.85	3–	6853 Silvanomassaglia	2.796	0.12	2
6581* Sobers	6.6338	1.14	3	6854* 1987 UG	3.64	0.66	2 W
6587* Brassens	5.2	0.27–0.54	2	6859* Datemasamune	5.2879	0.06	2 A
6590 Barolo	8.35928		p Ns	6861* 1991 FA ₃	19.466	0.41–0.42	2 W
6598* Modugno	6.769	0.21–0.36	2 W	6867 Kuwano	7.367	0.52–0.70	3
6602 Gilclark	4.5686	0.21–0.54	3	6870 Pauldavies	4.487	0.50–0.68	3
6607 Matsushima	11.359	0.87	2 W	6877 Giada	4.1745	0.47	3
6608 Davidecrespi	>20.	>0.3	2	6882* Sormano	3.690	0.71	2 p W
6610 Burwitz	3.014	0.22	N	6883 Hiuchigatake	5.508	0.43	2 W
6611 1993 VW	2.5568	0.06–0.15	3 B?	6886 Grote	5.755	0.11	3
6615 Plutarchos	2.3247	0.06	3 B?	6887 Hasuo	2.752	0.18	2 W
6618* Jimsimons	4.142	0.16–0.4	3–	6897 Tabei	5.862	0.43	3
6619 Kolya	10.5011	0.39	3	6901 Roybishop	4.682	0.04–0.07	2 AB?
6622* Matvienko	10.216	0.40–0.41	2 W	6902* Hideasada	73.341	0.36–0.68	2 W
6626 Mattgenge	107.081	0.48	2 W	6905 Miyazaki	2.7418	0.14	3 p
6634 1987 KB	5.333	0.22–0.23	3	6911* Nancygreen	54.7	0.35–0.75	3– T0
6635 Zuber	5.5355	0.63–0.75	3	6915* 1992 HH	4.76345	0.52–0.61	3
6642* Henze	4.4696	0.26–0.35	3	6916 Lewispearce	23.497	0.25	2 W
6646 Churanta	5.8711	0.73–0.77	3	6918* Manaslu	8.97	0.21	2 W
6650 Morimoto	13.49	0.24	2	6929 Misto	4.248	0.11	2–
6652 1991 SJ ₁	85.56	0.75	2	6932* Tanigawadake	3.79	0.42–0.45	2+ W
6659 Pietsch	12.985	0.31	2 W	6933 Azumayasan	7.78	0.16	3–
6660* Matsumoto	7.556	0.33–0.40	2 W	6938 Soniaterk	8.33	0.29	2
6662 1993 BP ₁₃	>24.	0.94	1	6939 Lestone	2.821	0.26	2 W
6663 Tatebayashi	4.8	0.35	2	6943 1978 VR ₄	2.8221	0.19	3
6664 Tennyso	3.2	0.20	1	6944 1979 MR ₃	2.91280	0.16–0.17	3
6670* Wallach	4.080	0.39–0.65	3	6949 Zissell	3.6336	0.24	3
6671 Concari	5.22042		p Ns	6950 Simonek	3.083	0.11	2 W
6672 Corot	37.62	0.87	2 W	6952 Niccolo	12.5320	1.10	3–
6676* Monet	3.48	0.21	2 W	6956 Holbach	4.463	0.49	2 W
6680 1970 WD	6.722	0.34	3	6961 Ashitaka	3.1457	0.13–0.15	3–
6683 Karachentsov	13.989	0.71	2 W	6965* Niyodogawa	6.36	0.28	2 W
6685 Boitsov	2.5	0.10	2	6966 Vietoris	2.773	0.09	1 W
6686 Hernius	4.707	0.42	2 W	6972 Helvetius	16.35	0.33	2
6694* 1986 PF	7.01	0.05	2–	6974 Solti	2.423	0.16	3
6699 Igaueno		0.15	N	6976 Kanatsu	4.025	0.33–0.35	3
6702 1988 BP ₃	18.205	0.40	2 W	6980* Kyusakamoto	3.253	0.40–0.41	2 W
6706 1988 VD ₃	27.021	0.05	1 W	6982 1993 UA ₃	16.08	0.10	2
6708* Bobbieville	12.3415	0.26–0.41	3 B	6984* Lewiscarroll	24.65	0.16	2 A
6709 Hiromiyuki	6.828	1.00	3	6990 Toya	15.622	0.43	2 W
6719 Gallaj	4.430	0.95	2 p s	6992 Minano–machi	>24.	>0.10	1
6720 Gifu	4.231	0.40	3–	6995 Minoyama	125.335	0.76	2 W
6721 Minamiawaji	14.518	0.56–0.56	2 W	7001 Noether	9.581	0.65	2 p s
6730 Ikeda	16.33408	0.54	2	7002 Bronshen	2.671	0.14	3
6733 1992 EF	11.357	0.50	2 W	7005 Henninghaack	12.914	0.76	2 W
6734* Benzenberg	196.708	0.41	2 W	7007* Timjull	3.551	0.30–0.31	2 W
6736 Marchare	18.632	0.11	2 W	7011 Worley	6.419	0.12	2 W
6737* Okabayashi	2.55	0.07–0.12	3–	7012 Hobbes	8.938	0.48	2 W
6741 Liyuan	10.768	0.13	3–	7016* Conandoyle	6.5427	0.82	3
6743 Liu	7.364	0.40	3	7019* Tagayuichan	39.795	0.3 –0.49	2 W
6744 Komoda	3.110	0.40	3	7020 Yourcenar	10.18	0.37	2–
6746 Zagar	8.136	0.20	3–	7022 1992 JN ₄	5.517	0.32	2 W
6750 Katgert	9.445	0.29	2 W	7023 Heiankyo	10.807	0.48–0.58	3
6751* van Genderen	3.143	0.47–0.60	2 W	7025 1993 QA	2.5057	0.32–0.50	3
6753 Fursepko	4.99	0.19	1+ W	7027* Toshihanda	36.304	0.28–0.30	2
6755* Solov yanenko	8.1681	0.28–0.32	3 p	7028* Tachikawa	10.489	0.23–0.24	2 W
6764 Kirillavrov	4.74	0.07	2+	7029 1993 XT ₂	10.	0.47	2
6774* Vladheinrich	3.60	0.58	2 W	7030 Colombini	6.5937	0.47	3
6777* Balakirev	9.116	0.23–0.26	2 W	7033 1994 WN ₂	2.8162	0.09–0.10	3
6778 Tosamakoto	>6.	>0.08	2	7035 Gomi	62.897	0.09	1 W
6784 Bogatikov	11.527	0.60	2 W	7036 Kentarohirata	11.283	0.58–0.79	3
6790 Pingouin	>12.	>0.45	2– D	7038 Tokorozawa	160.044	0.60	2 W

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Planet	Period	Variation	Note	Planet	Period	Variation	Note
7041 Nantucket	4.30	0.11	1	7304 Namiki	8.8712	0.30–0.95	3
7043* Godart	8.4531	0.68–0.70	3 p	7313* Pisano	2.63	0.29	2 W
7046 Reshetnev		0.31	N	7317 Cabot	2.237	0.10	1 W
7055 Fabiopagan	4.16845	0.55–0.59	3 p	7318 Dyukov	4.856	0.63	2 p s
7059 Van Dokkum	4.620	0.71	2 W	7321 1979 MZ ₂	83.177	0.83	2 W
7062 Meslier	4.012	0.22	2 W	7328 Casanova	9.122	0.31	2 W
7066 Nessus		0.5		7330 Annelemaître	4.438	0.23–0.32	3
7072 Beijingdaxue	5.304	0.99	2 p s	7331 Balindblad	16.3	0.18	1+
7077* Shermanschultz	4.860	0.20–0.22	2 W	7334 Sciurus	4.0659	0.28	3
7084 1991 BR	5.308	0.19	2 W	7335 1989 JA	<12.		RN
7085 1991 PE	3.615	0.24	2 W	7336 Saunders	6.423	0.2 –0.3	2
7086 Bopp	29.15	0.10–0.16	2+	7339* 1991 RA ₁₆	8.936	0.24–0.28	2 W
7087 Lewotsky	3.942	0.12–0.51	3	7340 1991 UA ₂	10.697	0.76	2 W
7088 Ishtar	2.6790	0.11	3 B	7341* 1991 VK	4.2096	0.21–0.70	3
7089 1992 FX ₁	3.036	0.06	2	7343 Ockeghem	3.7547	0.14–0.23	3 p
7090 1992 HY ₄	9.074	0.48	2 W	7348* 1993 FJ ₂₂	3.47	0.10–0.13	2 W
7106 Kondakov	7.59690		p Ns	7350 1993 VA	3.580	0.26–0.38	3–
7111 1985 QA ₁	11.21	0.21	3–	7352 1994 CO	648.	0.30	3– T
7116 Mentall	6.489	0.11	2+	7354 Ishiguro	6.224	0.14	2 W
7119 Hiera	>400.	>0.1	1	7355 Bottke	2.6361	0.21	2
7120 Davidgavine	2.868	0.18	2 W	7356 Casagrande	23.755	0.09	1 W
7122* Iwasaki	>96.	>0.6	HNW	7358 Oze	5.433	0.07–0.22	2–
7124 Glinos	29.310	0.42	2 W	7360 Moberg	4.5842	0.38–0.41	3 p
7131 Longtom		0.1	N	7361* Endres	5.879	0.59–0.75	2 W
7132 Casulli	3.524	0.15–0.25	3–	7369 Gavrilin	49.12	0.25	3 B
7133 Kasahara	8.845	0.20–0.37	3	7370 Krasnogolovets	4.901	0.34	2 W
7134 Ikeuchisatoru	>20.	>0.15	2	7372 Emimar	2.564	0.19	2 W
7138 1994 AK ₁₅	145.264	0.26	2 W	7373* Stashis	>30.	>0.6	2– W
7139* Tsubokawa	2.756	0.16–0.18	2 W	7380* 1981 RF	4.37	0.48–0.50	3– W
7142* Spinoza	12.375	0.57–0.61	2 W	7385* Aktsynovia	4.123	0.32–0.34	3–
7144 Dossobuono	3.4685	0.19	2+	7395 1985 RP ₁	64.568	0.64	2 W
7145 Linzexu	2.905	0.10	2+	7409 1990 BS	31.610	0.20	2
7147 Feijth	5.318	0.06	1 W	7415* Susumimoto	11.71	0.51	2– W
7148* Reinholdbien	11.92	0.44	1 DAW	7419 1991 PN ₁₃	>20.	>0.1	1
7151* 1971 SX ₃	5.072	0.73–0.84	3	7421* Kusaka	96.5	0.58–0.70	2 T
7152 Euneus	9.73	0.09	2	7422 1992 LP	81.493	0.51	2 W
7153 Vladzakharov	105.143	0.76	2 W	7429 Hoshikawa	>20.	>0.65	2
7160* Tokunaga	5.1352	0.13	3–	7436* Kuroiwa	5.610	0.07	2
7166 Kennedy	3.659	0.52	2 W	7437* Torricelli	13.72	0.41	1 DAW
7167 Laupheim	7.040	0.31	2 W	7440 Závist	7.436	0.55	2 W
7169* Linda	27.864	0.20–0.88	2 p	7446 Hadrianus	3.402	0.67	3
7173 Sepkoski	2.5006	0.09–0.20	3	7449 Döllen	10.	0.10	2–
7181 1991 PH ₁₂	206.688	0.50	2 W	7452 Izabelyuria	11.79	1.1	2 W
7183 1991 RE ₁₆	275.754	0.46	2 W	7454 Kevinrighter	4.01	0.59	2–
7186 Tomioka	7.309	0.13	2	7456* Doressoundiram	14.786	0.35–0.37	2 W
7187 Isobe	4.2432	0.09–0.22	3 B	7458* 1984 DE ₁	16.7	0.30–0.33	2 W
7188 Yoshii	260.	0.49	1+	7461* Kachmokiam	10.67	0.30	2– W
7189 Kuniko	2.922	0.15	2 W	7467 1989 WQ ₁	7.633	0.40	3
7192 Cielestspace	6.3546	0.44–0.57	2+	7471 1991 YD	19.150	0.48	2 W
7193 Yamaoka	32.580	0.51	2 W	7474 1992 TC	5.540	0.07	2
7195 Danboice	8.67	0.16	1+ W	7476* Ogiltsbie	3.92	0.40–0.40	3
7196 Baroni	6.604	0.74	2 W	7477* 1993 LC	74.240	0.85–1.09	2 W
7203* Sigeki	11.420	0.24–0.33	2 W	7479 1994 EC ₁	4.926	0.27	2 W
7204 Ondrejov	5.233	0.55	2 W	7480 Norwan	35.90	>0.5	2 T0
7209 Cyrus	5.381	0.34	2 W	7481 San Marcello	1.4	0.08	N
7210 Darius	6.237	0.29	2 W	7482 1994 PC ₁	2.5999	0.29–0.38	3
7213 Conae	5.3855	0.70	3	7484* Dogo Onsen	6.237	0.53–0.75	2 W
7216* Ishkov	10.958	0.12–0.13	2 W	7488 Robertpaul	42.922	1.00	2 W
7218* 1979 SK	7.56	0.32	2 W	7489 Oribe	112.666	0.80	2 W
7225 Huntress	2.43995	0.11	3 B	7494 Xiwanggongcheng	21.849	0.52	2 W
7229 Tonimoore	4.	0.37	2	7496 Miroslavholub	17.87	0.14	2
7233 Majella	3.812	0.60–0.66	3 p	7505 Furusho	4.14	0.52–0.75	3
7241* Kuroda	59.6	0.61	2 HW	7510* 1978 UF ₆	5.380	0.16–0.19	2 W
7243 1990 VV ₃	9.300	0.68	2 W	7516 Kranjc	3.96769	0.15–0.16	3
7244* Villa–Lobos	35.029	0.5 –0.83	2 W	7517 Alisondoane	9.701	1.13	3 p
7247 Robertstirling	3.176	0.11–0.15	2+	7522* 1991 AJ	60.405	0.20–0.24	2 W
7255* 1993 VY ₁	9.022	0.13–0.18	3	7525 Kiyohira	6.385	0.06	1 W
7262 Sofue	8.2223	0.46	3	7526 Ohtsuka	7.109	0.16	3–
7267 Victormeen	3.0420	0.14–0.20	3	7530* Mizusawa	5.6424	0.10–0.15	2
7270* Punkin	7.51	0.45–0.55	2+ W	7531* Pecorelli	3.339	0.54–0.59	2 W
7271 Doroguntsov	4.02	0.20	2 W	7537 Solvay	9.276	0.31	2 W
7272 Darbydyar	30.334	0.33	2 W	7541 Nieuwenhuis	3.809	0.18	2 W
7281 1988 RX ₄	16.7	0.13	2	7543* Prylis	17.80	0.10	2
7283 1989 TX ₁₅	2.6747	0.19	3	7545* Smaklösa	14.322	0.75–0.92	3
7285 Seggewiss	3.460	0.52	3	7548 Engström	5.231	0.35	2 W
7288 1991 FE ₁	4.890	0.47	2 W	7550* Woolum	3.14	0.31–0.32	2
7289 Kamegamori	3.831	0.73	2 p s	7553* Buie	4.245	0.51–0.53	2 W
7295 Brozovic	3.3471	0.56–0.66	3	7557 1982 FK ₃	5.650	0.34	3
7299 Indiawadkins	10.381	0.19	2 W	7559 Kirstinemeyer	5.475	0.05	2 A
7302 1993 CQ	3.275	0.19	2 W	7560 Spudis	3.5449	0.10–0.38	3 B?

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Planet	Period	Variation	Note	Planet	Period	Variation	Note
7563 1988 BC	6.539	0.24–0.30	3	7888* 1993 UC	2.337	0.10–0.16	2+ B
7564 Gokumenon	30.58	0.65	3	7889 1994 LX	2.741	0.27–0.39	3
7569 1989 BK	3.60	0.15	2	7895 Kaseda	5.11	0.10	2+
7579 1990 TN ₁	18.316	0.91–1.15	3	7896 Švejk	16.20582		p Ns
7583 Rosegger	7.661	0.45	2 W	7898 Ohkuma	131.322	0.60	2 W
7584 Ossietzky	2.726	0.21	2 W	7905 Juzoitami	2.728	0.66	2 p W
7588* 1992 FJ ₁		0.21	N	7914 1978 UW ₇	2.8467	0.24	2+
7593 1992 WP ₄	2.557	0.14–0.17	3	7920 1981 XM ₂	2.596	0.15	2 W
7594 Shotaro	9.643	0.26	2 W	7922 1983 CO ₃	4.830	0.30	2 W
7601 1994 US ₁	3.74	0.39	3–	7923* Chyba	5.716	0.19–0.23	2 W
7602 Yidaeam	2.909	0.29	2 W	7929* 1987 SK ₁₂	2.97	0.28	2 W
7603 Salopia	1.2	<0.05	1	7930 1987 VD	long?	<0.1	1
7611 Hashitatsu	9.806	0.17	2 W	7933 Magritte	3.26	0.38	2+
7618 Gotoyukichi	2.984	0.26	2 W	7936 Mikemagee	7.834	0.84	2 W
7638* Gladman	17.3	0.25–0.50	2	7946 1991 RV ₁₃	51.343	0.23	2 W
7641 1986 TT ₆	27.770	0.40	3	7949 1992 SU	17.91	0.20	2
7644 Cslewis	2.31	0.22	2–	7958 Leakey	2.34843	0.19–0.22	3 B
7645* Pons	35.390	0.65–0.73	2 W	7959* Alysecherri	3.540	0.12–0.13	3–
7650 Kaname	18.172	0.49	2 W	7964 1995 DD ₂	10.224	0.84	2 p s
7655 Adamries	22.876	0.33	2 W	7965 Katsuhiko	5.3897	0.40–0.50	3
7658 1993 BM ₁₂	2.38	0.15	2 W	7966* Richardbaum	4.680	0.81–0.87	3
7660 Alexanderwilson	5.924	0.32–0.86	3 p	7968 Elst–Pizarro	3.471	0.33	3
7663* 1994 RX ₁	102.06	0.34	2 W	7975 1974 FD	5.739	0.55	2 W
7667 1995 BL ₃	15.3	0.23	2	7977* 1977 QQ ₅	7.457	0.47–0.57	N
7676 1995 WN ₈	21.61	0.19	2+	7979* Pozharskij	3.772	0.16–0.20	2 W
7677* Sawa	3.00	0.23	2 W	7980* Senkevich	10.48	0.38–0.41	2 W
7684 Marioferrero	17.296	0.44	2 W	7983* Festin	5.562	0.53–0.64	2 W
7694* Krasetin	117.755	0.92	3–	7984 Marius	3.534	0.15	2 W
7695 Přemysl	11.734	0.25	2+	7997 1985 CN ₁		<0.2	P
7696* Liebe	13.889	0.43–0.44	2 W	7998* Gonczi	6.50	0.58–0.88	3–
7707 Yes	4.971	0.68	2 W	8007 1988 RU ₆	3.918	0.24	2 W
7708* Fennimore	18.64	>0.3	2–	8008* 1988 TQ ₄	12.2	0.02	1
7710* Ishibashi	11.521	0.50–0.54	2 W	8011 Saijokeiichi	4.499	0.19	2 W
7713 Tsutomu	2.906	0.27	2 W	8013 Gordonmoore	8.40	0.25	2 A
7718 Desnoux	19.	>0.05	1	8017 1990 RM ₅			W
7719 1997 GT ₃₆	29.555	0.31	2	8021 Walter	4.84	0.07	2 A
7728* Giblin	11.8	0.60–0.63	2	8022 Scottcrossfield	4.003	0.33	2 W
7735 Scorzelli	13.2	0.84	N	8024 Robertwhite	7.067	0.90–0.95	3
7741 Fedoseev	14.074	0.12	2+	8025 Forrestpeterson	4.089	0.38	2 W
7742 Altamira	2.70	0.11	2 W	8026 Johnmckay	372.	0.66–1.00	3 T0B?
7743 1986 JA	146.8	0.93	3–	8033 1992 FY ₁	10.099	0.14	3–
7745* 1987 DB ₆	7.04	0.89–1.18	3	8034 Akka	7.283	0.46–0.52	2 A
7747* Michałowski	4.50	0.44–0.51	2 W	8037 1993 HO ₁	13.04	0.1	N
7748 1987 TA	4.22	0.15	3–	8041 Masumoto	34.0	0.27–0.39	2
7749 Jackschmitt	5.337	0.20	3–	8042* 1994 AX ₂	8.133	0.42–0.46	2 W
7750 McEwen	27.8182	0.43–0.65	3	8043 Fukuhara	22.7606		S p N
7751* 1988 UA	9.36	0.74–0.85	3–	8053 Kleist	4.172	0.73	2 W
7757 Kameya	5.98	0.11	2 A	8054 Brentano	623.770	0.46	2 W
7758* PoulAnderson	2.64752	0.14–0.15	3 B?	8057 Hofmannsthal	5.65	0.10	2 W
7760 1990 RW ₃	25.940	0.32–0.35	3	8058* Zuckmayer	4.80	0.13	2 W
7767 Tomatic	25.070	0.13	2 W	8059 Deliyannis	6.004	0.39	3–
7774 1992 UU ₂	3.87	0.54	2	8062 Okhotsyskij	5.282	0.49	3
7776 Takeishi	8.90	0.05	1	8077* Hoyle	2.7454	0.20–0.30	3 B
7778 Markrobinson	7.230	0.59–0.64	3	8080* Intel	3.54	0.31–0.34	3–
7780 Maren	22.321	0.43	2 W	8085 1989 CD ₈	7.75	0.20	2
7781 Townsend	81.1	0.58	3–	8086 Peterthomas	8.118	0.24	2 W
7783 1994 JD	31.83	0.85	3 p	8091 1992 BG	8.5630	1.09–1.11	3
7784 Watterson	2.539	0.10	3–	8098 Miyamotoatsushi	5.240	0.03	1 W
7790* Miselli	2.708	0.48–0.61	2 W	8102 Yoshikazu	3.34	0.28	1+ W
7792 1995 WZ ₃	3.16001	0.21	3	8103 Fermi	5.262	0.19	2 W
7797 Morita	3.9288	0.28	2	8107 1995 BR ₄	6.9785	0.37	3
7803 Adachi	5.197	0.31	2 W	8109 Danielwilliam	789.979	0.60	2 W
7808 Bagould	13.295	0.14	2 W	8110 Heath	3.171	0.08	1 W
7811* Zhaojiuzhang	3.354	0.62–0.67	2 W	8111 Hoepli	17.489	0.23	2 W
7816 Hanoi	5.17	0.72–0.77	3–	8116 Jeanperrin	3.61692	0.09–0.10	3 B
7818 Muirhead		0.1	N	8120* Kobe	5.86	0.69–0.74	3 W
7822 1991 CS	2.389	0.26–0.39	3	8121 Altdorfer	4.022	0.34	2 W
7824 Lynch	75.30	0.37	3 T0	8128* Nicomachus	4.67	0.48–0.57	2+ W
7825 1991 TL ₁	>10.	>0.05	2	8132 Vitginzburg	7.28	0.47	3 p
7829 Jaroff	4.398	0.50–0.67	3	8133 Takanochoei	18.773	0.39	2 W
7831 François–Xavier	9.940	0.20	2 W	8135 1978 VP ₁₀	5.2	0.3	2
7832 1993 FA ₂₇	8.295	0.03	2	8138* 1980 FF ₁₂	3.206	0.10–0.13	2 W
7834 1993 JL	15.707	0.31	2 W	8151 Andranada		0.04	N
7835 Myroncope	7.43019		p Ns	8152 1986 VY	6.38	0.30	2+
7837 Mutsumi		0.40	N	8159 Fukuoka	5.400	0.19	2–
7846* Setvák	2.613	0.11–0.14	2 W	8160 1990 MG	3.719	0.38	2 W
7853 Confucius	26.638	0.47	2 W	8161 Newman	7.003	0.41	2 W
7870 1987 UP ₂	12.	0.06–0.07	1	8162 1990 SK ₁₁	2.224	0.08	1 W
7875 1991 ES ₁	20.046	0.36	2 W	8163 Ishizaki	3.243	0.32	2 W
7879 1992 EX ₁₇	3.634	0.32	2 W	8164 Andreasdoppler	6.175	0.29	2 W

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Planet	Period	Variation	Note	Planet	Period	Variation	Note
8165 Gnädig	6.300	0.57	2 W	8497 1990 RE ₇	4.40	0.60	3-
8173 1991 RX ₂₃	104.128	0.74	2 W	8502 Bauhaus	3.064	0.34	2 W
8176 1991 WA	7.111	0.80-0.99	N	8505 1990 YK	3.133	0.08	1 W
8180 1992 PY ₂	13.014	0.24	3	8509* 1991 FV ₂	9.010	0.33-0.79	2 W
8181 Rossini	13.253	0.49	2 W	8523 Bouillabaisse	4.4	0.30	2
8187 Akiramisawa	5.815	0.90	2 W	8532 1992 YW ₃	>30.	>0.35	2
8189 Naruke	8.91	0.36	2	8535* Pellesvanslös	5.695	0.70-0.76	2 W
8190 Bouguer	6.842	0.33	2 W	8538 Gammelmaja	3.089	0.37	2 W
8195 1993 UC ₁	7.8615	0.33	3	8542 1993 VB ₂	4.995	0.10	1 W
8201 1994 AH ₂	23.949	0.3	2	8548 Sumizihara	3.192	0.10	2 W
8202 Gooley	9.514	0.41	2 W	8549 Alcide	>3.	>0.2	2-
8209 Toscanelli	3.618	0.36	2 W	8559 1995 QM ₂	4.072	0.67	2 W
8213 1995 FE	2.911	0.38	3	8563 1995 US	3.197	0.56	3
8217* Dominikhašek	6.91	0.69	2 W	8564 Anomalocaris	20.329	0.39	2 W
8223 Bradshaw	9.408	0.54	2 W	8567 1996 HW ₁	8.7573	0.22-1.00	3 p
8225* Emerson	5.206	0.42-0.43	2 W	8568 Larrywilson	11.29	0.39	2 W
8228* 1996 YB ₂	8.353	0.18	3	8571* Taniguchi	5.304	0.54-0.76	2 W
8234 Nobeoka	33.090	0.49	2 W	8573 Ivanka	8.03312		2 p Ns
8241* Agrius	17.902	0.23	2 HW	8575* Seishitakeuchi	5.257	0.33-0.43	2 W
8245 Molnar	4.716	0.30-0.37	2 W	8584 1997 AN ₂₂	31.520	0.95	2 W
8252 Elkins-Tanton	14.15	0.14	2	8589* Stellaris	5.37	0.42-0.70	3
8253 Brunetto	3.9	0.15	1	8590* Pygargus	17.62	0.20	1 DAW
8256 Shenzhou	3.395	0.30-0.31	3	8591 Excubitor	14.628	0.14	2 W
8259 1983 UG	6.951	0.61	2 W	8595 Dougallii	10.130	0.25	2 W
8261* Ceciliejulie	14.009	0.42-0.43	2 W	8612 Burov	6.140	0.76	2 W
8270* Winslow	6.37	0.69-0.77	3	8615 1979 MB ₂	731.276	1.16	2 W
8272 Iitateura	3.11743	0.35	3-	8625* Simonhelberg	5.27	0.40-0.53	2 W
8281 1991 PC ₁₈	12.635	0.71	2 W	8630 Billprady	79.652	0.58	2 W
8290 1992 NP	4.453	0.58	3-	8634 Neubauer	5.096	0.50	2 W
8292 1992 SU ₁₄	2.856	0.04	1 W	8636* Malvina	16.994	0.44-0.47	2 W
8297 Gérardfaure	>10.	>0.15	1	8639 1986 VB ₁	4.626	0.12	3
8306 Shoko	3.3503	0.10-0.11	3 B	8643 Quercus	16.953	0.22	2 W
8309 1996 NL ₁	19.76	0.16	2+	8645 1988 TN	7.616	0.36	3-
8316* Wolkenstein	4.57	0.40-0.42	2 W	8649* Juglans	6.028	0.18-0.20	2 W
8325 Trigo-Rodriguez	32.25	0.20	2-	8653 1990 KE	>14.		N
8337 1984 SF ₆	4.060	0.21	2 W	8657* Cedrus	13.467	0.67-0.80	2 W
8338* Ralhan	5.2745	0.44-0.62	3	8663 Davidjohnston	32.8	0.30	2
8345* Ulmerspatz	17.13	0.47-1.05	3- B?	8682 Kråklingsbo	7.566	0.48	2 W
8348 Bhattacharyya	19.60	0.06-0.10	2-	8691 Etsuko	9.6	0.09	1
8354* 1989 RF	8.298	0.57-0.59	2 W	8692 1992 WH	4.698	0.20	2 W
8355 Masuo	6.0677	0.43	3	8694 1993 CO	6.069	0.32	3
8356 Wadhwa	3.04303	0.11-0.13	3	8700* Gevaert	4.905	0.47-0.59	2 W
8359 1989 WD	2.89111	0.34-0.70	3 p	8709 Kadlu	50.6	>0.40	2 T-
8360* 1990 FD ₁	8.094	0.26	3	8721 AMOS	29.131	0.29	2 W
8361 1990 JN ₁	3.601	0.75	2 W	8722 Schirra	2.3052	0.18	3
8369* Miyata	2.7368	0.22-0.24	3	8736 Shigehisa	80.5	1.2	3 T0
8370 Vanlindt	6.250	0.39	2 W	8743* Keneke	2.769	0.05	2
8373 Stephengould	4.435	0.24-0.39	3 B	8744 Cilla	5.199	0.55	2 W
8378 Sweeney	>12.	>0.05	1	8752 Flammeus	22.865	0.59	2 W
8380* Tooting	36.929	0.56-0.72	3	8756 Mollissima	4.421	0.23	2 W
8382 Mann	67.133	0.48	2 W	8773 Torquilla	15.939	0.10	2 W
8389 1993 FT ₃₇	9.966	0.67	2 W	8776* Campestris	9.298	0.35-0.38	2 W
8390 1993 FE ₄₈	4.437	0.28	2 W	8778 1931 TD ₃	3.833	0.51	2 W
8392 1993 OP	>6.	>0.03	1	8781 Yurka	5.879	0.69	2 W
8393 Tetsumasakamoto	6.315	0.47	2 W	8783* Gopasyuk	5.6951	0.63-0.80	3 W
8394 1993 TM ₁₂	212.810	0.53	2 W	8788 Labeyrie	12.571	0.50	2 W
8395 Rembaut			P	8789 1978 VZ ₇	5.277	0.40	2 W
8396 1993 UR ₂	6.425	0.16	2 W	8794 Joepatterson	2.864	0.17	3
8397 Chiakitanaka	3.90	0.32	3-	8796 Sonnett	5.20	0.41	1
8400 Tomizo	3.04983	0.14	2+	8802 Negley	5.764	0.51	2 W
8404* 1995 AN	3.202	0.06-0.16	2+	8807 Schenk	307.588	0.44	2 W
8405 Asbolus	8.9351	0.32-0.55	3	8819 Chrisbondi	3.026	0.25	2 W
8417 Lancetaylor	3.5862	0.46-0.8	3-	8825 1988 MF	40.651	0.95	3-
8419 Terumikazumi	4.6	0.16	1	8828 1988 RC ₇	12.929	0.33	3-
8423 Macao	5.78	0.29	2 W	8829 Buczkowski	13.105	0.33	2
8426* 1997 ST	5.13	0.42	2 W	8833* Acer	27.42	0.35	1 DAW
8427 1997 TH ₁₇	3.528	0.22	2 W	8838 1989 UW ₂	42.671	0.43	2 W
8432* Tamakasuga	12.08	0.23	1 DAW	8844 1990 QR ₂	8.786	0.37	2 W
8441 Lapponica	3.27	0.29-0.50	3-	8847* Huch	5.75	0.36	2 W
8444* Popovich	54.867	0.71-1.15	3-	8849* Brighton	10.727	0.40-0.41	2
8449 Maslovets	230.709	0.65	2 W	8858 Cornus	6.180	0.56	2 W
8454 Micheleferrero	6.727	0.36	2 W	8859* 1991 PQ ₁₁	3.90	0.62-0.69	3-
8457* Billgolisch	135.707	0.19	2 W	8860 Rohloff	18.8411		2 p N
8463 Naomimurdoch	3.74	0.17	2 A	8862 Takayukiota	3.2549	0.26	3-
8474 Rettig	30.54	0.34-0.93	3 B	8866* Tanegashima	13.525	0.27-0.48	2+
8475 Vsevoivanov		0.64	2 W	8872 Ebum	10.547	0.30	2 W
8484 1988 VM ₂	2.548	0.15	2 W	8878 1993 FN ₁₆	19.875	0.60	2 W
8485 Satoru	362.772	0.58	2 W	8881 Prialnik	10.698	0.06	1 W
8487 1989 SQ	9.4323	0.25-0.35	3	8882* Sakaetamura	4.8742	0.32-0.66	3-
8494* Edpatvega	4.32	0.18	2 W	8885 Sette	212.	0.5	2- T0

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Planet	Period	Variation	Note	Planet	Period	Variation	Note
8886 Elaeagnus	10.184	0.60	2 W	9223 Leifandersson	3.758	0.33	2 W
8887 Scheeres	2.9827	0.18	3	9227 Ashida	3.970	0.34	2 W
8893 1995 KZ	22.27	0.69	3	9228 Nakahiroshi	130.273	0.25	2 W
8895 Nha		0.1		9231* Shimaken	10.917	0.55–0.67	3
8900 AAVSO	3.837	0.43	2 W	9233 Itagijun	110.95	0.6	2 TO
8901 1995 UJ ₄	8.702	0.25	2 W	9234 Matsumototaku	6.05	0.89	2+ W
8906 Yano	6.744	0.11–0.14	2 W	9237* 1997 GY ₇	4.072	0.56–0.61	2 W
8908* 1995 WY ₆	3.026	0.37–0.48	2 W	9243* 1998 FF ₆₈	4.2	0.11–0.17	2 W
8910 1995 WV ₄₂	10.56	0.49	2 W	9247* 1998 MO ₁₉	11.479	0.27–0.35	3
8911 Kawaguchijun	6.120	0.94	2 W	9260 Edwardolson	3.0852	0.11	NB
8914* Nickjames	5.652	0.17	2 W	9262 Bordovitsyna	9.	0.08	2
8920 1996 VZ ₂₉	4.696	1.09	2 W	9272 Liseleje	19.389	0.13	2 W
8927 Ryojiro	7.986	0.47	2 W	9274* Amylovell	5.518	0.59–0.71	2 W
8928 1996 YH ₂	2.5689	0.07	2 A	9283 Martinelvis	3.460	0.07	1 W
8941* Junsaito	14.014	0.42–0.46	2 W	9286 Patricktaylor	3.86	0.20	2
8942 Takagi	332.194	0.44	2 W	9295* Donaldyoung	5.13	0.12	2– W
8951 1997 FO	3.770	0.61	2 W	9297 Marchuk	18.09	0.16	2
8952 ODAS	3.00	0.36	2 W	9298 Geake	38.29	0.78	2
8954 Baral	5.141	0.27	2 W	9302 1985 TB ₃	3.059	0.25	2 W
8957 Koujounotsuki	87.224	0.53	2 W	9306 Pittosporum	3.791	0.18	2 W
8958 Stargazer	15.991	0.62	N	9319 Hartzell		0.66	W
8965 Citrinella	9.082	0.32	2 W	9321 Alexkonopliv	3.427	0.19	2 W
8967 Calandra	5.243	0.58	2 W	9323 Hirohisasato	269.156	0.53	2 W
8973* Pratincola	5.85	0.15	2– W	9324 1989 CH ₄	6.558	0.16	2 W
8976 Leucura	5.54	0.40	3 W	9325 Stonehenge	4.607	0.16	2 W
8978* Barbatus	7.257	0.15–0.16	2 W	9334 Moesta	5.848	0.49	2 W
8987 1978 VD ₄	15.323	0.34	2 W	9335 1991 AA ₁	500.552	0.88	2 W
8991 Solidarity	5.239	0.19	2 W	9337* 1991 FO ₁	3.2	0.10–0.13	2 W
8992 Magnanimity	20.719	0.25	3	9340 Williamholden	202.112	0.86	2 W
8993 Ingstad	3.0276	0.27	3	9344 Klopstock	5.842	0.38	2 W
9000 Hal	908.	0.9	2+ TO	9347 1991 RY ₂₁	4.028	0.35–0.45	2
9004 1982 UZ ₂	32.676	0.42	2 W	9356 Elineke	2.750	0.21	3–
9005 Sidorova	14.084	0.42	2 W	9359 Fleringe	21.508	0.50	2 W
9023 Mnesthus	30.66	0.23	2+ W	9362 Miyajima	2.179	0.07	1 W
9030 1989 UX ₅	6.30	0.60	3–	9364* Clusius	8.9155	0.52–1.06	3
9036* 1990 SJ ₁₆	2.57	0.47–0.53	2 W	9368* Esashi	2.9183	0.17–0.20	3
9039 1990 WB ₄	11.170	0.08	1 W	9369* 1993 DB ₁	54.335	0.17–0.43	2 W
9043 1991 EJ ₄	6.026	0.57	2 W	9372 Vamlingbo	5.652	0.08	1 W
9047 1991 QF	4.476	0.72	2 W	9375 Omodaka	3.925	0.55	2 W
9050 1991 RF ₂₉	3.507	0.15	2 W	9387 Tweedledee	3.534	0.09–0.15	3
9053* Hamamelis	10.386	0.29–0.33	2 W	9392 Cavaillon	5.524	0.36	2 W
9054 Hippocastanum	193.552	0.38	2 W	9393 Apta	3.286	0.23	2 W
9056 Piskunov	2.905	0.15	2 W	9395 Saint Michel	3.3342	0.12	2
9060* Toyokawa	3.6804	0.08	3–	9400* 1994 TW ₁	97.1	0.80–1.04	2 T?
9065* 1993 FN ₁	3.064	0.19–0.19	2 W	9401 1994 TS ₃	3.693	0.29	2 W
9068 1993 OD	3.4073	0.19–0.20	3	9411 Hitomiyamoto	5.118	0.08	1 W
9069 Hovland	4.217	0.08–0.11	3 B	9413 Eichendorff	13.723	0.73	2 W
9074* Yosuke Yoshida	166.297	0.8 –1.03	2 W	9414* Masamimurakami	15.574	0.24	3–
9077 Ildo	15.323	0.43	2 W	9421 Violilla	4.605	0.35	2 W
9078 1994 PB ₂	45.65	0.44	2 W	9422 Kuboniwa	5.475	0.19	2 W
9083* Ramboehm	10.199	0.14	3	9423* Abt	3.281	0.30–0.33	3
9084 Achristou	8.84	0.09	2+ W	9424 Hiroshinishiyama	3.478	0.61	2 W
9090 Chirotenmondai	5.6477	0.17	2+ W	9430* Erichthonios	26.264	0.36–0.59	2 W
9091 Ishidatakaki	10.6	0.97	2–	9431 1996 PS ₁		0.91	I
9098* Toshihiko	6.19	0.13	1+ W	9437 Hironari	4.305	0.10	1 W
9105* Matsumura	4.769	1.00	3 HW	9440 1997 FZ ₁	S 5.19635		p N
9111 Matarazzo	>60.	0.3	2–	9443* 1997 HR ₉	3.49	0.29	2 W
9115 Battisti	5.023	0.07	1 W	9450 1998 BT ₁	9.012	0.59	2 W
9117 Aude	2.8156	0.17–0.22	3	9457* 1998 FB ₇₅	23.069	0.36–0.46	2 W
9120 1998 DR ₈	14.750	0.11–0.12	3	9458 1998 FF ₉₇	4.217	0.37	2 W
9121 Stefanovaletini	11.84	0.14	2	9462 1998 HC ₃₇	3.432	0.30	2 W
9122 Hunten	7.920	0.27	2 W	9465 1998 HJ ₁₂₁	5.802	0.64–0.65	2+ W
9131 1998 JV	26.839	0.67	2 W	9484 Wanambi	18.597	0.76	2 W
9132 Walteranderson	6.268	0.72	2 W	9485 Uluru	4.305	0.39	2 W
9136* Lalande	5.75	0.13	2 W	9488 Huia	105.273	0.80	2 W
9140 Deni	25.270	0.52	2 W	9507 Gottfried	91.905	0.85	2 W
9142* Rhesus	7.325	0.24–0.27	2 W	9512 Feijunlong	2.754	0.21	2 W
9143 Burkhead		0.20	N	9522 Schlichting	6.274	0.29	2 W
9145 Shustov	3.812	0.29	2 W	9527 1981 EH ₂₃	9.05	0.20	1
9164 Colbert	5.094	0.53	2 W	9528* Küppers	4.66	0.22	2 W
9165 Raup	1320.	1.05–1.34	3– TO	9538 1982 UM ₂	S 21.995	0.07	1 W
9175* Graun	25.8	0.16	2+ W	9542 Eryan	S 2.79473		p N
9182 1991 NB ₄	5.416	0.40	2+ W	9549 Akplatonov	2.8431	0.15	3–
9186 Fumikotsukimoto	3.9100	0.41–0.49	3–	9554 Dumont	28.7	0.40	2
9190 Masako	6.130	0.12	3–	9556 Gaywray	920.	0.5	2– TO
9195 1992 OF ₉	10.089	0.33	2 W	9557 1986 QL ₂	53.653	0.51	2 W
9196* Sukagawa	7.10	0.92–1.13	3– W	9559* 1987 DH ₆	203.260	0.50–0.63	2 W
9199 1993 FO ₁	5.322	0.47	2+ W	9560 Anguita	7.039	0.27	2 W
9220* Yoshidayama	6.04	1.02	2 W	9563* Kitty	5.367	0.64–0.72	2 p W
9222* Chubey	10.8290	0.40–0.51	3	9564 Jeffwynn	3.035	0.16	3

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Planet	Period	Variation	Note	Planet	Period	Variation	Note
9566 Rykhlava	8.800	0.56–0.95	2	9916* Kibirev	15.171	0.36–0.45	2 W
9572 1988 <i>RS</i> ₆	23.230	0.53	2 W	9921* Rubincam	8.01	0.31–0.33	3– W
9577 Gropius	27.899	0.76	2 W	9927* Tyutchev	2.51	0.15	2 W
9578* Klyazma	5.42	0.66	2 W	9928 1981 <i>WE</i> ₉	18.3980	0.25–0.41	2+ W
9580 Tarumi	9.052	0.32	2 W	9931* Herbhauptman	4.44	0.15–0.21	2 W
9583* 1990 <i>HL</i> ₁	2.6409	0.14	3–	9936 Al–Biruni	10.704	0.14	2
9584 Louchheim	410.	>0.3	2 T0	9942 1989 <i>TM</i> ₁	3.071	0.08	1 W
9586 1990 <i>SG</i> ₁₁	5.206	0.28	2 W	9948* 1990 <i>QB</i> ₂	3.53	0.60–0.77	3
9587 Bonpland	2.206	0.11	2 W	9950 ESA	6.712	0.44–0.56	3
9601 1991 <i>UE</i> ₃	24.	>0.03	1	9963 Sandage	4.65053	0.43–0.56	3–
9604 Bellevanzuylen	8.187	0.51	2 W	9965* GNU	39.745	0.36–0.42	2 W
9616* 1993 <i>FR</i> ₃	5.018	0.32–0.53	2 W	9969* Braille	226.4	0.9	2 p T0
9617 Grahamchapman	2.2856	0.10–0.11	3 B	9971 Ishihara	6.715	1.06	2 p s
9620 Ericidle	3.367	0.67	2 W	9983 Rickfienberg	5.2963	1.30	3 p
9622 Terryjones	8.938	0.69	2 W	9991 Anežka	4.469	0.24	2 W
9626 Stanley	5.776	0.41	2 W	9992* 1997 <i>TG</i> ₁₉	5.7402	0.27–0.42	3
9630 Castellion	2.56	0.10	2 W	9994 Grotius	9.219	0.27	2 W
9635 1993 <i>XS</i>	4.138	0.10	2 W	9999* Wiles	3.482	0.13–0.15	2 W
9641 Demazière	9.912	0.90	2 W	10001 Palermo	213.368	0.97	2 W
9642 Takatahiro	5.524	0.58	2 W	10019 1979 <i>MK</i> ₇	245.062	0.43	2 W
9652* 1996 <i>AF</i> ₂	4.385	0.10–0.16	2 W	10020 1979 <i>OQ</i> ₅	2.349	0.13	2 W
9655* Yaburanger	6.684	0.10–0.14	2 W	10022 Zubov	4.564	0.14	2 W
9661 Hohmann	5.920	0.32	2 W	10024 Marthahazen	3.316	0.08	1 W
9672* Rosenbergerezek	10.67	0.38	2 W	10025* Rauer	4.451	0.48–0.51	2 W
9694* Lycomedes	18.2	0.38–0.55	2	10026 1980 <i>RE</i> ₁	9.960	0.31	2 W
9699 Baumhauer	16.7	0.15	1	10033 1981 <i>UJ</i> ₂₃	11.880	0.42	2 W
9712 Nauplius	19.41	0.48	2	10042 Budstewart	3.695	0.33	3
9713* Oceax	22.00	0.24	2+	10046* Creighton	6.566	0.46–0.68	3
9716 Severina	2.9669	0.26	3	10052 1987 <i>SM</i> ₁₂	4.068	0.24	2 W
9718 Gerbefremov	6.249	0.17	2 W	10057 L'Obel	7.154	0.57	2 W
9721 Doty	4.108	0.15	2 W	10060 Amymilne	2.727	0.02	2
9723* Binyang	12.40	0.57–1.11	2	10062 1988 <i>RV</i> ₄	3.545	0.06	1 W
9726* Verbiscer	5.551	0.27–0.28	2 W	10064 Hirosetamotsu	8.052	0.56–0.74	3 p
9731 1982 <i>JD</i> ₁	2.833	0.16	3–	10091 Bandaian	3.23	0.25	2
9732 Juchnovski	7.572	0.14	2	10094 Eijikato	7.66	0.13	2
9737* Dudarova	14.3158	0.12–0.17	2+	10101 Fourier	6.849	0.34	2 W
9738 1987 <i>DF</i> ₆	3.165	0.15	2 W	10104 Hoburgsgubben	9.40	0.74	2– W
9739 Powell	109.	0.09–0.40	2 T?	10113 1992 <i>PX</i> ₂	6.768	0.68	2 W
9750 1989 <i>NE</i> ₁	65.356	0.51	2 W	10115 1992 <i>SK</i>	7.319	0.50–1.03	3 p
9753 1990 <i>QL</i> ₃	4.356	0.20	2 W	10119* Remarque	6.811	0.47–0.50	2 W
9757* Felixdejager	3.11	0.18	2 W	10121* Arzamas	12.1	0.60–0.70	2 W
9770 Discovery	3.947	0.70	2 W	10123* Fideöja	2.8657	0.06	3 B
9772 1993 <i>MB</i>	5.3450	0.17	3 B?	10125 Stenkyrka	5.597	0.43	2 W
9773 1993 <i>MG</i> ₁	2.74595	0.24–0.35	3	10133 1993 <i>GC</i> ₁	5.547	0.17	2+
9774 Annjudge	10.51	0.20	2	10134* 1993 <i>HL</i> ₆	5.5348	0.25–0.26	3
9780 Bandersnatch	7.06329	0.16–0.34	3–	10136* Gauguin	9.09	0.13	1
9782 Edo	4.085	0.67	3	10142 Sakka	3.35	0.28–0.40	3
9783* Tensho–kan	3.0111	0.13	3 B	10143* Kamogawa		0.09	
9785 Senjikan	26.743	0.23	2 W	10150 1994 <i>PN</i>	2.965	0.23–0.24	2+ B?
9790* 1995 <i>OK</i> ₈	8.01	0.21	2+	10154 Tanuki	2.886	0.12	2 W
9792* Nonodakesan	6.336	0.26–0.28	2 W	10159 Tokara	5.531	0.58	3–
9795* Deprez	4.12	0.34	2 W	10166* Takarajima	5.3712	0.62–0.84	3
9799 1996 <i>RJ</i>	21.52	0.16	2+	10171* Takaotengu	8.245	0.28–0.33	2+
9801 1997 <i>FX</i> ₃	2.889	0.12	3	10179 Ishigaki	3.34	0.60	3–
9805 1997 <i>NZ</i>	16.860	0.23	2 W	10181 Davidacomba	4.521	0.76	2 W
9807* 1997 <i>SJ</i> ₄	331.	0.43	2– HW	10187* 1996 <i>JV</i>	21.676	0.10–0.20	2 A
9826 Ehrenfreund	3.748	0.37	2 W	10188 Yasuoyoneda	2.74840	0.12	3–
9829 Murillo	>4.	0.4	N	10191 1996 <i>NU</i> ₁	14.276	0.48	2 W
9837* Jerryhorow	17.40	0.70–0.73	2+	10199 Chariklo	7.004	0.11	2+
9838 Falz–Fein	38.428	0.31	2 W	10207 Comeniana	12.84	0.10	2
9844 Otani	10.073	0.18	2 W	10208 Germanicus	3.3484	0.10–0.13	3 B
9846 1990 <i>OS</i> ₁	18.546	0.09	1 W	10212* 1997 <i>RA</i> ₇	9.154	0.88–1.05	2 W
9847* 1990 <i>QJ</i> ₅	2.781	0.19–0.27	2 W	10217 Richardcook	23.33	0.45	3–
9849 1990 <i>RF</i> ₂	2.608	0.12	2 W	10222 Klotz	29.	0.11	1
9854 Karlheinz	4.688	0.56	3–	10223 Zashikiwarashi	7.104	0.56	2 W
9855 1991 <i>CU</i>	15.962	0.08	1 W	10224* Hisashi	8.257	0.42–0.64	2 W
9856 1991 <i>EE</i>	3.045	0.14	3	10227 Izanami	2.920	0.16	2 A
9858 1991 <i>OL</i> ₁	21.208	0.60	2 W	10231* 1997 <i>WQ</i> ₃₇	3.363	0.20–0.21	2 W
9864 1991 <i>RT</i> ₁₇	4.558	0.12	2 W	10237 Adzic	2.338	0.14	2 W
9865* Akiraohita	2.96	0.08	2 W	10240 1998 <i>VW</i> ₃₄	18.872	0.08	1 W
9866* Kanaimitsuo	3.21	0.25	2 W	10241* Miličević	3.87	0.34	2 W
9872 Solf	11.598	0.54	2 W	10247 Amphiaras	34.26	0.55	2
9873 1992 <i>GH</i>	2.9257	0.20–0.34	3	10248 Fichtelgebirge	45.798	1.00	2 W
9874 1993 <i>FG</i> ₂₃	6.803	0.18	2 W	10249* Harz	3.631	0.47–0.54	2 W
9884* Příbram	13.916	0.38–0.41	2 W	10252 Heidigraf		0.56	2 W
9888 1995 <i>CD</i>	4.960	0.27	2 W	10259 Osipov Yuriy	6.356	0.30–0.32	3
9890 1995 <i>SY</i> ₂	12.625	0.77	2 W	10261 Nikdollezhaj'	16.747	0.06–0.09	2
9900 Lull	183.319	0.88	2 W	10269* Tusi	10.81	0.15	1 HW
9910* Vogelweide	118.905	0.67–0.74	2 W	10277 1981 <i>EC</i> ₂₇	15.334	0.32	2 W
9912* Donizetti	6.228	0.19–0.32	2 W	10281 1981 <i>EE</i> ₄₅	7.572	0.70	2 p s

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Planet	Period	Variation	Note	Planet	Period	Variation	Note
10291 1985 <i>UT</i>	55.354	0.58	2 W	10621 1997 <i>XN</i>	4.921	0.31	2 W
10301* Kataoka	5.5610	0.22	3	10623* 1997 <i>YP</i> ₇	44.094	0.58–0.64	2 W
10302* 1989 <i>ML</i>	19.	1.00–1.00	3 T0	10627 Ookuninushi	4.33499		2 p Ns
10305 Grignard	3.265	0.24	2 W	10629 1998 <i>BK</i> ₁₁	3.950	0.21	2 W
10306* Pagnol	4.79	0.27	2+	10632 1998 <i>CV</i> ₁	9.13	0.37	2– W
10310 Delacroix	44.517	0.53	2 W	10636* 1998 <i>QK</i> ₅₆	9.84	0.32	3–
10313 Vanessa–Mae	2.82	0.38	2–	10637 Heimlich	10.743	0.35	2 W
10315 Brewster	5.190	0.45	2 W	10642* Charmaine	>30.	>0.1	2– W
10320 Reiland	5.92	0.12	2	10645 Brač	2.78592	0.31	3–
10328 1991 <i>GC</i> ₁	15.357	0.72	3	10646 Machielalberts	3.058	0.29	2 W
10338* 1991 <i>RB</i> ₁₁	10.55	0.73	2 W	10650 Houtman	33.896	0.89	2 W
10339* 1991 <i>RK</i> ₁₇	7.90	0.56–0.63	2 W	10651 van Linschoten	4.823	0.53	2 W
10347 Murom	35.3	0.45	2–	10655 Pietkeyser	94.050	0.86	2 W
10348* Poelchau	3.31	0.17	2 W	10656 Albrecht	14.490	0.35	2 W
10349 1992 <i>LN</i>	2.867	0.09	1 W	10662 Peterwisse	3.072	0.15	1
10357 1993 <i>SL</i> ₃	2.762	0.05	2–	10666 Feldberg	3.4947	0.18	3–
10359 1993 <i>TU</i> ₃₆	2.411	0.18	2 W	10672 Kostyukova	78.468	0.08	1 W
10370 Hylonome		<0.04		10673 1978 <i>VU</i> ₅	5.4	0.30	2 W
10373* MacRobert	9.42	1.10	1 DAW	10681* Khture			HNW
10374* Etampes	352.974	0.23	2 W	10683* Carter	75.3	1.00	2 HW
10376 Chiarini	16.160	0.73	2 W	10684 Babkina	404.680	0.74	2 W
10377* Kilimanjaro	3.66	0.13	2 W	10688 1981 <i>DK</i>	9.4	0.25	2+
10378* Ingmarbergman	4.504	0.12–0.14	2 W	10694 1981 <i>EH</i> ₂₁	7.188	0.17	2 W
10389* Robmanning	2.75	0.10	1	10701 1981 <i>PF</i>	72.485	0.56	2 W
10390 Lenka	129.982	0.09	1 W	10703 1981 <i>QU</i> ₃	10.885	0.23	2 W
10395 Jirkahorn	3.670	0.13	2 W	10715 Nagler	2.541	0.19	3
10397* 1997 <i>SX</i> ₃₃	3.33	0.14	2 W	10719* Andamar	2.868	0.28–0.38	2 W
10398* 1997 <i>UP</i> ₈	5.027	0.66	3	10731 1988 <i>BL</i> ₃	28.02	0.23–0.41	2 A
10399* Nishiharima	6.50	0.24	2–	10737 Brück	3.22	0.08	2+
10404 McCall	274.895	0.84	2 W	10740 Fallersleben	5.656	0.53	2 W
10415 Mali Lošinj	240.512	0.48	2 W	10746 Mühlhausen	11.116	0.27	2 W
10417 1998 <i>WA</i> ₂₃	3.995	0.22	2 W	10749 Musäus	5.040	0.29	2 W
10420 1998 <i>YB</i> ₁₂	4.907	0.18	2 W	10750 1989 <i>PT</i>	2.010	0.08	1 W
10430 Martschmidt	15.577	0.61	2 W	10762* von Laue	4.71	0.20–0.21	3– W
10431 Pottasch	7.267	0.32	2 W	10765 1990 <i>UZ</i>	4.378	0.17	2+
10443* van der Pol	3.34501	0.15–0.16	2	10772 1990 <i>YM</i>	68.7	1.05–1.3	2 p NT?
10449 Takuma	7.33	0.46	2 W	10779* 1991 <i>LW</i>	18.3	0.66–0.72	2
10452 Zuev	7.88202	0.38–0.39	3	10783 1991 <i>RB</i> ₉	7.334	0.26	3
10463 1979 <i>MB</i> ₉	4.791	0.29	2 W	10792* Ecuador	39.822	0.64–0.90	2 W
10464* Jessie	4.03	0.22	2 W	10793 Quito	11.299	0.28	2 W
10465* 1980 <i>WE</i> ₅	7.4403	0.44–0.50	N	10816 1993 <i>FZ</i> ₃₅	14.12	0.47	2 W
10472 1981 <i>EO</i> ₂₀	5.98599		2 p Ns	10817 1993 <i>FR</i> ₄₄	6.322	0.71	2 W
10473 1981 <i>EL</i> ₂₁	3.749	0.47	2 W	10819* Mahakala			HNW
10475 1981 <i>EX</i> ₂₈	3.1	0.20	1	10822 Yasunori	21.522	0.10	1 W
10476 1981 <i>EY</i> ₃₈	267.906	0.33	2 W	10826 1993 <i>SK</i> ₁₆	13.835	0.61	3– p
10480 Jennyblue	6.019	0.57	2 W	10830 Desforbes	8.804	0.69	2 W
10484 Hecht	5.508	0.17–0.22	3	10841 Ericforbes	4.908	0.95	3–
10490 1985 <i>VL</i>	3.915	0.19	2 W	10843* 1994 <i>YF</i> ₂	3.0556	0.10	3–
10492 1986 <i>QZ</i> ₁	36.338	0.46	2 W	10863 Oye	6.930	0.10	1 W
10496 1986 <i>RK</i>	9.876	0.31	3	10867 Lima	4.526	0.35	2 W
10497 1986 <i>RQ</i>	5.3283	0.19	3	10883* 1996 <i>VU</i> ₅	5.415	0.30–0.33	2 W
10500 Nishi–koen	44.552	0.27	2 W	10907 Savalle	6.082	0.07	2–
10502 Armaghobs	24.978	0.51	2	10909 1997 <i>XB</i> ₁₀	3.2483	0.40	3–
10504 Doga	2.951	0.08	1 W	10914* Tucker	8.07	0.16	1+ W
10509 Heinrichkayser	6.564	0.22	2 W	10917 1998 <i>AN</i>	3.261	0.30	2 W
10513* 1989 <i>TJ</i> ₁₄	8.335	0.39–0.49	2 W	10919 Pepíkzicha	11.002	0.41	2 W
10518 1990 <i>MC</i>	6.613	0.08	2	10923 1998 <i>BM</i> ₁₂	10.942	0.64	2 W
10519* 1990 <i>RO</i> ₂	17.011	0.56–0.68	2 W	10927 Vaucluse	5.482	0.25	2 W
10521 1990 <i>RW</i> ₇	7.751	0.67	2 W	10936* 1998 <i>FN</i> ₁₁	25.70	0.28–0.35	2 A
10528 1990 <i>VX</i> ₃	3.677	0.36	2 W	10938 Lorenzalevy	84.99	0.14	2 W
10531 1991 <i>GB</i> ₁	55.1	0.21	2+ T0	10939 1999 <i>CJ</i> ₁₉	587.826	0.61	2 W
10544 Hörsnebara	2.469	0.09	1 W	10943 Brunier		0.97	W
10548 1992 <i>PJ</i> ₂	4.01838	0.34	3	10944* 1999 <i>FJ</i> ₂₆	12.578	0.22–0.24	2 W
10551 Göteborg	335.346	0.70	2 W	10947 Kaiserstuhl	3.149	0.20–0.21	2 W
10552* Stockholm	3.76	0.14	2 W	10960 Gran Sasso	6.518	0.64	2 W
10553* Stenkumla	3.75	0.39	2 W	10973 Thomasreiter	3.910	0.30	2 W
10559 Yukihiisa	5.797	0.45	2 W	10988* Feinstein	2.6723	0.11	3–
10563 Izhdubar			3	10989* Dolios	26.101	0.32	2 HW
10564 1993 <i>XQ</i> ₂	3.490	0.29	2 W	10997* Gahm	3.207	0.50–0.58	2 W
10565 1994 <i>AT</i> ₁		0.17	N	11001 Andrewulff	3.9638	0.14	3 B?
10570 Shibayasuo	4.987	0.98	2 W	11017 Billputnam	6.749	0.42	3
10576 1995 <i>GF</i>	5.004	0.10	1 W	11027 Astaf _{ev}	4.87	0.08	2– W
10578 1995 <i>LH</i>	8.861	0.18	2+	11031 1988 <i>RC</i> ₅	3.408	0.32	2 W
10589 1996 <i>OM</i> ₂	2.425	0.08	1 W	11035 1988 <i>VQ</i> ₃	3.443	0.16	2 W
10591 Caverni	66.375	0.68	2 W	11040* Wundt			HNW
10592 1996 <i>PN</i> ₅	8.069	0.23	2 W	11048 1990 <i>QZ</i> ₅	5.9830	0.24	2+
10597 1996 <i>TR</i> ₁₀	6.59667	0.28–0.32	3	11052 1990 <i>WM</i>	5.06904		2 p N
10604 Susano	4.313	0.26	2 W	11054 1991 <i>FA</i>	2.57223	0.04–0.15	3
10611 Yanjici	13.637	0.18	2 W	11058 1991 <i>PN</i> ₁₀	6.517	0.39–0.78	3 p
10617* Takumi	2.756	0.15–0.17	3–	11063* Poynting	7.926	0.53–0.56	3

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Planet	Period	Variation	Note	Planet	Period	Variation	Note
11064* Dogen	4.163	0.48–0.60	3–	11440 1975 SC ₂	5.782	0.30	2 W
11065 1991 XE ₂	>8.	>0.1	1+	11441 Anadiego	3.179	0.11	2
11066 Sigurd	8.4958	0.97–1.15	3	11443 1977 CP	3.367	0.07	1 W
11072 Hiraoka	4.7512	0.23–0.36	3	11450 Shearer	5.422	0.45	2 W
11074 Kuniwake	2.622	0.27	2 W	11452 1980 KE	4.239	0.10	1 W
11076 1992 UR	8.504	0.21	2 W	11454 1981 DT ₂	24.660	0.20	2 W
11077 1992 WB ₂	8.813	1.27	2 W	11455 1981 EN ₄	17.414	0.40	2 W
11088 1993 UN	58.524	0.73	2 W	11457 1981 EF ₁₂	9.18	0.26	1
11089* 1994 CS ₈	7.72	0.38–0.46	3	11463 1981 EN ₂₄	5.319	0.13	2 W
11094 Cuba	10.0	0.48	2– W	11474 1982 SM ₂	1917.221	0.04	1 W
11095 Havana	9.836	0.54	2 W	11478 1985 CD	5.260	0.10	2 W
11099 Sonodamasaki	7.248	0.09	1 W	11479 1986 EP ₅	6.91	0.50	2 W
11100 Lai	>5.	>0.15	2	11482 1988 BW	7.136	0.64	2 W
11104 Airion	20.416	0.09	1 W	11488 1988 RM ₁₁	15.92	0.16	2
11107 Hakkoda	5.479	0.26	2 W	11496 Grass	3.5	0.20	1 DW
11108 Hachimantai	3.352	0.40	2 W	11500 Tomaiyowit	73.0	0.5	NT0
11116 1996 EK	4.4017	0.08–0.10	3– B?	11503 1990 BF	5.191	0.28	2 W
11118* Modra	27.12	0.42–0.53	3	11507 Danpasu	2.685	0.09	1 W
11120* Pancaldi	10.78	0.48	1+ DAW	11508 Stolte	3.049	0.46	2 W
11129 Hayachine	17.6	0.22	2–	11509 Thersilochos	17.367	0.27–0.38	3
11131 1996 VO ₃₀	2.7890	0.12	3	11512 1991 AB ₂	2.933	0.20	2+
11133 Kumotori	4.634	0.33	2 W	11515* Oshijyo	3.34	0.37–0.50	2+ W
11141 Jindrawalter	5.89	0.65	2 W	11527* 1991 VU ₄	4.094	0.44–0.45	2 W
11148 Einhardress	7.77240		p Ns	11528 Mie	7.202	0.38	2 W
11149 Tateshina	12.85	0.42	3–	11542* Solikamsk	13.428	0.49	3
11152* Oomine	2.622	0.10	3	11543 1992 UN ₂	26.828	0.67	2 W
11155 Kinpu	2.208	0.06	1 W	11544 1992 UD ₃	14.464	0.36	2 W
11173 Jayanderson	63.511	0.09	1 W	11547* Griesser	3.34	0.16	2 W
11174* Carandrews	4.51	0.75–0.83	2 W	11549 1992 YY	2.671	0.08	2
11187 Richoliver	14.55	0.45	2 W	11551 1993 BR ₃	13.464	0.27	2 W
11202 Teddunham	7.414	0.08	1 W	11552 Boucolion	32.44	0.21–0.25	2
11216 Billhubbard	4.135	0.09	1 W	11556* 1993 DV	3.18	0.15–0.17	2 W
11217 1999 JC ₄	4.8219	0.11	3	11563 1993 FO ₃₆	26.442	0.32	2 W
11219 Benbohn	2.57	0.20	1 W	11572* Schindler	7.429	0.49–0.51	2 W
11220 1999 JM ₂₅	11.280	0.61	2 W	11574 d'Alviella	12.549	0.15	2 A
11221 1999 JO ₂₆	15.798	0.38	2 W	11579 Tsujitsuka	56.6	>0.8	2 T?
11223 1999 JC ₃₀	9.902	0.36	2 W	11586 1994 UA ₂	6.781	0.25	2 W
11227 Ksenborisova	2.61679	0.34	3 B	11594 1995 HP	6.314	0.56	2 W
11232 1999 JA ₇₇	6.739	0.16	2 W	11610 1995 XJ ₁	5.825	0.30	2 W
11244 Andrékuipers	18.914	0.26	2 W	11613 1995 YN ₄	11.094	0.63	2 W
11250* 1972 AU	2.812	0.15	3	11639* 1997 AO ₄	3.58	0.19	2 W
11251* Icarion	10.448	0.31	2 HW	11655 1997 CC ₂₉	16.793	0.47	2 W
11252 Laertes	9.15	0.18	2	11658 1997 EQ ₁₇	9.519	0.55	2 W
11261* Krisbecker	3.411	0.22–0.24	2 W	11661 1997 FK ₄	3.192	0.12	2 W
11264 Claudiomaccone	3.1872	0.12–0.16	2+ B	11680* 1998 DT ₁₁	3.86	0.53–0.57	2 W
11268 Spassky	5.646	0.43–0.65	3	11681* Ortner	5.00	0.60–0.62	2 W
11271 1988 KB	6.362	0.35–0.36	3	11683* 1998 FO ₁₁	8.048	0.34–0.35	2 W
11277 Ballard	>10.	>0.25	2–	11700 1998 FT ₁₁₅	5.52303		p N
11279 1989 TC	4.003	0.13–0.16	3–	11705 1998 GN ₇	3.7187	0.32–0.45	3
11280 Sakurai	2.630	0.05	1 W	11706 Rijeka	12.930	0.23	2 W
11283* 1989 UX ₄	5.68	0.39	2 W	11709 Eudoxos	2.64	0.24	2–
11284 Belenus	5.43	0.45	2+	11716 Amahartman	2.53	0.27	2 W
11286* 1990 RO ₈	14.806	0.44–0.60	2 W	11718 Hayward	6.063	0.30	2 W
11288 Okunohosomichi	3.687	0.32	2 W	11719 Hicklen	20.553	0.24	2 W
11304 Cowra	95.7	0.40–1.0	2+ T0	11723 1998 HT ₁₂₅	4.118	0.52	2 W
11310 1993 SB ₁₅	11.134	0.63	2 W	11727 Sweet	3.761	0.27	2 W
11318 1994 XZ ₄	2.977	0.33	2+	11728* Einer	12.92	0.19–0.19	2
11321* Tosimatamoto	7.80	0.25	2–	11735 1998 KN ₅₆	8.535	0.25	2 W
11333 Forman	3.00	0.12	2 W	11737 1998 QL ₂₄	184.676	0.25	2 W
11351 Leucus	515.	0.53	2+ T0	11749 1999 NZ ₁₀	27.540	0.21	2 W
11352* Koldewey	6.32	0.47	2 W	11752 1999 OU ₃	5.122	0.30	2 W
11372* 1998 QP ₄₁	3.17	0.14	2 W	11756* Geneparker	10.571	0.30–0.30	2 W
11375* 1998 QB ₇₄	8.00	0.43	2 W	11759 Sunyaev	3.720	0.18	2 W
11381 1998 SZ ₁₁₅	3.054	0.20	2 W	11762 Vogel	6.218	0.53	2 W
11386 1998 TA ₁₈	15.959	0.61–0.84	3	11763* Deslandres	3.60	0.61	2 W
11388* 1998 VU ₄	28.74	0.08	2+	11771 Maestlin	4.098	0.07	1 W
11393 1998 XJ ₅₃	5.779	0.36	2 W	11773 Schouten	5.540	0.27	2 W
11395* 1998 XN ₇₇	17.383	0.08–0.14	3–	11774 Jerne	648.120	0.68	2 W
11397 1998 XX ₉₃	12.70	0.10–0.25	2+	11775 Köhler	8.21	0.37	2 W
11398 1998 YP ₁₁	38.60	0.25–0.34	3 T–	11776 Milstein	3.82	0.57	2– W
11404 Wittig	13.424	0.69	2 W	11780 Thunder Bay	295.	0.70	3 T0
11405* 1999 CV ₃	6.504	0.50–0.89	3	11785 Migaic	20.716	0.30	2 W
11410 1999 FU ₃₄	17.818	0.35	2 W	11786 Bakhchivandji	8.427	0.87	2 W
11424 1999 LZ ₂₄	2.925	0.08–0.13	3	11789 Kempowski	48.6	>0.45	2 AT0
11429* Demodokus	50.16	0.18	2	11801 1981 EL ₅	2.127	0.07	1 W
11430* Lodewijkberg			HNW	11817* 1981 EQ ₃₄	43.263	0.64–0.67	2 W
11432* Kerkhoven			HNW	11820 1981 EP ₃₈	6.419	0.44	2 W
11436 1969 QR	2.65	0.27	2	11824 Alpaidze	4.116	0.05	1 W
11437 Cardalda	2.926	0.31	3	11828 Vargha	10.518	0.53	2 W
11438 Zeldovich	5.2	0.12	2–	11829 Tuvikene	44.498	0.72–0.83	3–

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Planet	Period	Variation	Note	Planet	Period	Variation	Note
11831 1984 <i>SF</i> ₃	32.300	0.49	2 W	12269 1990 <i>QR</i>	76.	1.2	1+
11833 Dixon	3.595	0.19	3	12271 1990 <i>RC</i> ₂	2.54	0.4	1
11836 Eileen	8.810	0.25	3	12282 Crombecq	3.426	0.21	3-
11842 Kap'bos	3.68578	0.13	3	12286* Poiseuille	2.597	0.14-0.17	2 W
11862 1988 <i>XB</i> ₂	2.381	0.14	2 W	12290 1991 <i>LZ</i>	21.96	0.16	2
11864 1989 <i>NH</i> ₁	7.597	0.44	2 W	12292 Dalton	6.188	0.35	2 W
11868 Kleinrichert	24.	0.29	1	12298 Brecht	3.803	0.32	2 W
11869* 1989 <i>TS</i> ₂	14.020	0.28-0.34	2 W	12317 Madicampbell	7.264	0.65	2+
11873* Kokuseibi	4.7688	0.31	3	12321 Zurakowski	3.296	0.05	1 W
11877 1990 <i>EL</i> ₈	3.057	0.30	2 W	12326* Shirasaki	2.7286	0.12	NB
11885 Summanus	7.358	0.18	3-	12331 1992 <i>UH</i> ₆	2.727	0.02	1
11887 Echemmon	8.47	0.15	2	12332* 1992 <i>UJ</i> ₆	43.	0.62	2
11891 1991 <i>FJ</i> ₂	3.608	0.36	2 W	12336 1992 <i>WO</i> ₃	2.9527	0.16	3
11899 Weill	30.284	0.10	1 W	12352 Jepejacobsen	13.395	0.42	2 W
11901 1991 <i>PV</i> ₁₁	9.3768	0.59-0.61	3	12353* Marquez	9.14	0.53	2 W
11904 1991 <i>TR</i> ₁	18.233	0.11-0.32	3	12356 Carlscheele	6.445	0.38	2 W
11912 Piedade	10.142	0.07	1 W	12357 Toyako	8.330	0.65	2 W
11917 1992 <i>UX</i>	89.317	0.32	2 W	12359 Cajigal	11.766	0.27	2 W
11918 1992 <i>UY</i>	6.307	0.26	2 W	12360 Unilandés	11.370	0.35	2 W
11922 1992 <i>UT</i> ₃	4.762	0.46	2 W	12369 Pirandello	3.504	0.07	2
11931 1993 <i>DD</i> ₂	19.9	0.12	1+	12374 Rakhath	18.170	0.31	2 W
11937 1993 <i>FF</i> ₁₆	8.963	0.38	2 W	12376 Cochabamba	6.32068	0.37	3
11941 Archinal	2.717	0.18-0.30	3	12377* 1994 <i>PP</i>	9.490	0.23-0.47	2 W
11946* Bayle	14.0	0.68-0.71	2 W	12379* Thulin	50.6	0.38	2 HW
11949 Kagayayutaka	3.96	0.28	3-	12384 Luigimartella	6.440	0.80	2 p s
11952* 1994 <i>AM</i> ₃	3.978	0.71-0.84	2 W	12390 1994 <i>WB</i> ₁	2.4629	0.05-0.09	3
11958 Galiani	9.801	0.96	2+ p	12391 Ecoadachi	36.931	0.36	2 W
11962* 1994 <i>PX</i>	3.967	0.37-0.42	2 W	12395 Richnelson	5.248	0.26	2 W
11974 Yasuhidefujita	26.158	0.41	2 W	12400 Katumaru	2.610	0.09	2 W
11976 Josephthurn	3.535	0.08-0.15	3-	12405 Nespoli	13.218	0.67	2 W
11978 Makotomasako	24.	0.03	1-	12415 Wakatatakayo	4.3606	0.65-0.68	3
11985 1995 <i>VG</i>	36.314	0.19	2 W	12419 1995 <i>UP</i> ₄	22.897	0.26	2 W
11992 1995 <i>XH</i>	13.782	0.27	2 W	12422 1995 <i>US</i> ₈	3.4	0.36	2-
11995 1995 <i>YB</i> ₁	12.66498		2 p Ns	12424 1995 <i>VM</i>	173.772	1.05	2 W
11996 1995 <i>YC</i> ₁	50.859	0.71	2 W	12426 Racquetball	2.882	0.22	2 W
12008* Kandrup	32.9034	0.4 -0.85	3 B	12429* 1995 <i>WH</i> ₇	19.122	0.27	2 W
12016 Green	5.055	0.70	2	12432 Usuda	12.862	0.58	2 W
12020 1996 <i>XW</i> ₁₉	9.935	0.15	2 W	12443 Paulsydney	15.28	0.64	2 W
12022 Hilbert	9.553	0.09	1 W	12444 Prothoon	15.82	0.20	3-
12032 Ivory	30.165	0.10	1 W	12453 1996 <i>YY</i>	10.00	0.33	3
12033* Anselmo	5.307	0.20-0.24	2 W	12454* 1996 <i>YO</i> ₁	8.089	0.77	2 W
12039 1997 <i>CB</i> ₂₂	3.799	0.18	2 W	12465 Perth Amboy	121.577	0.87	2 W
12045 Klein	8.9686	0.55	3- p	12466 1997 <i>AS</i> ₁₂	2.675	0.06	3
12051 Pícha	4.0	0.14	2	12482 Pajka	3.9428	0.21	3-
12052* Aretaon	8.05	0.17-0.19	2	12492 Tanais	3.007	0.35	2 W
12071 Davykim	3.5483	0.30	3	12498 Dragesco	2.534	0.27	2 W
12080* 1998 <i>FC</i> ₁₁₁	16.334	0.32-0.53	2 W	12502 1998 <i>FO</i> ₆₈	6.190	0.35	2 W
12081 1998 <i>FH</i> ₁₁₅	16.6062	0.24	3	12524 Conscience	10.011	0.48	2 W
12082 1998 <i>FS</i> ₁₁₈	5.698	0.47	2 W	12526 de Coninck	8.647	0.79	2 W
12088* Macalintal	3.342	0.44-0.57	2 W	12527 Anneraugh	7.613	0.10	2- W
12097 1998 <i>HG</i> ₁₂₁	6.850	0.42	2 W	12529 Reighard	4.837	0.29	2 W
12104* Chesley	3.9456	0.47-0.78	2+	12532 1998 <i>KW</i> ₅₄	4.968	0.37	2 W
12117* Meagmessina	27.944	0.66-0.77	2 W	12538* 1998 <i>OH</i>	5.154	0.12-0.20	3 A
12118* Mirotsin	2.89	0.12	2 W	12540 Picander	3.546	0.67	2 W
12119* Memamis	7.00	0.70	1 DAW	12551* 1998 <i>QQ</i> ₃₉	11.202	0.95	3 p
12122 1999 <i>NV</i> ₅₅	13.851	0.27	2 W	12558 1998 <i>QV</i> ₆₃	9.409	0.26	2 W
12130 Mousa	2.551	0.25	2 W	12559* 1998 <i>QB</i> ₆₉	6.21	0.18-0.19	3
12133 Titulaer	5.517	0.65	2 W	12564* Ikeller	7.042	0.35-0.44	2 W
12135 Terlingen	5.951	0.46	2 W	12577 Samra	329.228	0.96	2 W
12136 Martinryle	6.976	0.38	2 W	12578 Bensaur	6.008	0.58	2 W
12138 Olinwilson	14.432	0.31	2 W	12580 Antonini	8.717	0.89	2 W
12140 Johnbolton	66.830	0.35	2 W	12583 Buckjean	15.570	0.35	2 W
12161* Avienius	3.13	0.11	2 W	12584 Zelikoandreic	7.071	0.19	2 W
12168 Polko	9.4071	1.44	3	12587 1999 <i>RD</i> ₉₅	49.277	0.24	2 W
12186 Mitukurigen	11.197	0.29	2 W	12594 1999 <i>RU</i> ₁₄₅	80.312	0.82	2 W
12190 Sarkisov	2.684	0.18	2 W	12601 Tiffanyswann	3.867	0.42	2 W
12193 1979 <i>EL</i>	8.992	0.35	2 W	12603 Tanchunghee	5.811	0.09	1 W
12205 1981 <i>EZ</i> ₂₆	1.16	0.14	1	12609 Apollodoros	10.272	0.09	1 W
12207 1981 <i>EU</i> ₂₈	4.836	0.26	3	12613 Hogarth	3.62	0.20	2 W
12211 Arnoschmidt	3.956	0.37	2 W	12614 Hokusai	2.7296	0.35-0.80	3-
12214 Miroshnikov	9.960	0.24	2 W	12619 Anubelshunu	5.847	0.58	2 W
12220* Semenchor	5.992	0.57-0.64	2 W	12621 Alsufi	4.719	0.71	2 W
12228* 1985 <i>TZ</i> ₃			HNW	12625 Koopman	12.983	0.31	2 W
12236* 1987 <i>DD</i> ₆	6.06	0.95	1 DAW	12634* LOFAR	3.34	0.35	2 W
12238* Actor	7.284	0.29-0.33	2	12650 2247 <i>T-3</i>	5.358	0.28	2 W
12241 Lefort	3.153	0.49	2 W	12659* Schlegel	9.70	0.30	1 W
12245 1988 <i>RM</i> ₇	9.604	0.67	2 W	12662 1978 <i>CK</i>	7.398	0.38	2 W
12263 1989 <i>YA</i> ₄	2.75	0.06	2 W	12667 1979 <i>DF</i>	7.782	0.46	2 W
12264 1990 <i>CD</i>	4.147	0.14	2 W	12672* Nygårdh	2.77	0.18	2 W
12265 1990 <i>FG</i>	56.6	0.65	2 T-	12674 Rybalka	3.594	0.22	2 W

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Planet	Period	Variation	Note	Planet	Period	Variation	Note
12675 Chabot	3.182	0.15	2 W	13070 Seanconnery	7.085	0.18	3-
12676* 1981 DU ₁	10.21	0.14	2	13085* Borlaug	5.532	0.15-0.21	2 W
12696 Camus	3.78	0.40	3-	13089 1992 PH ₂	3.68	0.35	2+
12697* Verhaeren	9.978	0.60-0.67	2 W	13093 Wolfgangpauli	3.206	0.18	2 W
12699* 1990 DD ₂	21.10	0.34	1 DAW	13098* 1993 FM ₆	5.78	0.24	2 W
12700 1990 FH	9.036	0.27	3	13123 Tyson	3.3303	0.20-0.35	3 B?
12706 Tanezaki	11.5274	0.70	2+	13127 Jeroenbrouwers	8.424	0.68	2 W
12708* Van Straten	3.326	0.36-0.45	2 W	13133 Jandecleir	3.332	1.01	2 W
12711* Tukmit	3.4848	0.70	3	13138 1994 VA	57.	>0.1	2
12714 Alkimos	28.48	0.27	3-	13143 1995 AF	4.9813	0.27	3
12731 1991 RW ₁₂	8.807	0.09	1 W	13144* 1995 BJ	189.	0.81	2 W
12735 1991 VV ₁	3.2606	0.22	3-	13147* Foglia	2.78	0.14	2 W
12738 Satoshimiki	8.7081	0.20-0.25	2+	13154 Petermrva	2.9850	0.14-0.18	3
12740 1992 EX ₈	>10.		N	13155 1995 SB ₁	4.740	0.07	1 W
12753 Povenmire	17.5752	0.45-1.12	3 p	13164* 1995 VF	3.334	0.46-0.48	2 W
12755* Balmer	6.593	0.49-0.51	2 W	13166 1995 WU ₁	3.8123	0.19-0.22	3
12756 1993 QE ₁	3.472	0.48	3	13173 1996 AJ ₂	26.160	0.44	2 W
12769 Kandakurenai	4.222	0.55	2 W	13178 Catalan	12.926	0.28	2 W
12774 Pfund	7.34295		p Ns	13184* Augelas	11.934	0.15	2+ HW
12777 Manuel	2.789	0.26	2 W	13185* Agasthenes	11.453	0.03	1 HW
12788 Shigeno	35.445	0.77	2 W	13186 1996 UM	4.304	0.37-0.69	3
12789 Salvadoraguirre	7.0325	0.26	3	13187 1997 AN ₄	12.97	0.20	2 W
12793* Hosinokokai	12.63	0.54	2 W	13188 Okinawa	11.8	0.21	2- W
12798 1995 WZ ₄	2.7894	0.21	3	13189 1997 AF ₁₃	5.9371	1.10	3
12808 1996 AF ₁	263.095	0.30	2 W	13197 Pontecorvo	6.237	0.48	2 W
12815 1996 DL ₂	15.8	0.5	1+ A	13206* Baer	3.42	0.23	2 W
12820* Robinwilliams	10.44	0.36	1 DAW	13214 Chirikov	3.509	0.30	2 W
12823 1997 AP	7.8	0.35	2	13228 1997 SJ ₂₅	25.385	0.10	1 W
12825* 1997 AJ ₇	10.79	0.52	2 W	13229* Echion	8.46	0.27-0.33	2+
12831 1997 BS ₆	4.357	0.52	2 W	13230 1997 VG ₁	42.4	0.20	2+
12834 Bomben	>20.	0.6	2 W	13241 Biyo	4.4	0.99	2 D
12838 Adamsmith	10.909	0.48	2 W	13243* 1998 KZ ₄₇	88.4	1.20	2 HW
12845* Crick	3.54	0.15-0.21	2 W	13245 1998 MM ₁₉	4.667	0.28-0.47	3
12848* Agostino	6.322	0.51-0.84	2 W	13246* 1998 MJ ₃₃	14.0	0.22-0.25	2+ W
12849 1997 QD ₂	2.277	0.15	1	13256 Marne	6.238	0.81	2 W
12854 1998 HA ₁₃	50.6	0.34	N	13258* Bej	4.59	0.23	2 W
12860 Turney	438.135	0.08	1 W	13260 Sabadell	6.4366	0.56	3
12867* Joëloic	>8.	>0.04	1	13262* 1998 QF ₁₇	8.35	0.48	2 W
12868 Onken	115.	>0.6	2	13263 1998 QV ₂₂	4.803	0.29	2 W
12877 1998 QF ₁₁	11.89	0.41	2+	13266 1998 QY ₃₀	4.854	0.64	2 W
12878 Erneschiller	4.74	0.68	2 W	13283* Dahart	4.32	0.39	2 W
12880 Juliegrady	18.8	0.9	2-	13290 1998 QN ₇₅	5.384	0.03	2-
12882 1998 QS ₃₁	47.532	0.09	1 W	13306 1998 RT ₅₈	5.433	0.41	2 W
12884 1998 QL ₃₄	10.375	0.38	2 W	13323* 1998 SQ	29.230	0.27-0.46	2 W
12885* 1998 QM ₃₄	3.60	0.15	2 W	13329 Davidhardy	65.152	0.47	2 W
12888 1998 QR ₄₂	3.799	0.24	2 W	13331* 1998 SU ₅₂	375.	0.44-0.80	3- T?
12889 1998 QW ₄₂	5.363	0.48	2 W	13337* 1998 SZ ₁₁₄	4.039	0.18-0.23	2 W
12891 1998 QH ₅₁	7.296	0.09	1 W	13338 1998 SK ₁₁₉	4.12911		p Ns
12895 Balbastre	3.469	0.08-0.11	2 W	13343* 1998 SY ₁₂₇	3.47	0.41-0.45	2 W
12896* Geoffroy	11.36	0.23	1+ DAW	13349 1998 SD ₁₃₉	3.22	0.39	2 W
12912 Streator	4.144	0.32	2 W	13353 1998 TU ₁₂	53.52	0.24	2-
12920 1998 VM ₁₅	9.0511	0.19-0.31	2+ A	13362 1998 UQ ₁₆	15.13	0.35	3-
12923 Zephyr	3.891	0.18	N	13364 1998 UK ₂₀	9.114	0.64	2 W
12929 1999 TZ ₁	9.2749	0.07-0.17	2+	13366* 1998 US ₂₄	400.	0.23	2- HW
12934 Bisque	54.625	0.77	2 W	13372* 1998 VU ₆	20.176	0.36	2 HW
12963 5485 T-2	11.004	0.07	1 W	13374 1998 VT ₁₀	3.23	0.41	2
12972* Eumaios	13.4	0.13	2-	13376 Dunphy	4.32	0.06	1
12974* Halitherses	6.971	0.52	2+ HW	13378 1998 VF ₃₅	102.546	0.77	2 W
12979 Evgalvasil'ev	5.78331		p Ns	13379* 1998 WX ₉	13.698	0.11	2 HA
12982 1979 MS ₅	601.869	0.86	2 W	13384 1998 XG ₇₉	182.230	0.82	2 W
12984* Lowry	5.19	0.29	2 W	13389 Stacey	21.688	0.30	2 W
12989 1981 EV ₉	5.67	0.79	2	13390 Bouška	7.757	0.30	2 W
12991* 1981 EN ₂₁	3.44	0.24	2 W	13409 1999 US	9.548	0.68	2 W
12999 Toruñ	3.552	0.09	1 W	13429 1999 VM ₃₅	81.366	0.81	2 W
13003 Dickbeasley	3.502	0.30-0.44	3-	13430 1999 VM ₃₆	8.1	1.52	2 W
13006 Schwaar	6.8	0.17	3-	13460 1083 T-2	5.533	0.63	2 W
13009 Voloshchuk	14.8212	0.67	3	13468 3378 T-3	128.112	0.55	2 W
13012 1987 SO ₅	5.817	0.69	2 W	13474 V'yus	6.587	0.85	3
13014 Hasslacher	7.62	0.21	1	13478* Fraunhofer	49.9	0.45	2
13018* Geoffjames	4.334	0.46-0.67	3	13480* Potapov	10.86	0.68-0.76	2 W
13019 1988 NW	5.906	0.38	2 W	13482 Igorfedorov	13.55	0.55	3-
13020 1988 PW ₂	3.103	0.23	2 W	13488 Savanov	5.678	0.72	2 W
13023 1988 XT ₁		0.23	N	13497 Ronstone	11.847	0.90	3
13025 Zürich	18.53	0.24	2+	13503 1988 RH ₆	6.9	0.23	2- AW
13026 1989 CX	6.163	0.4	2-	13504* 1988 RV ₁₂	26.543	0.61	3
13036* 1989 YO ₃	4.73	0.13	2- W	13518 1990 VL ₁	6.885	0.26	2
13058 Alfredstevens	4.299	0.45	2 W	13519 1990 VM ₃	6.297	0.40	2 W
13059 Ducuroir	13.850	0.78	2 p	13526* Libbrecht	6.276	0.51-0.71	2 W
13061* 1991 FL ₂	11.812	0.19-0.21	2 W	13527* 1991 PJ ₁₅	7.33	0.12-0.12	2 W
13069 Umbertoeco	5.736	0.51	2 W	13531 Weizsäcker	17.628	0.21	2 W

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Planet	Period	Variation	Note	Planet	Period	Variation	Note
13533 Junli	>6.	0.15	1+	14051 1995 YY ₁	5.54	0.59	2+
13534 Alain-Fournier	6.214	0.92	2 W	14055 1996 AS	6.050	0.78	2 W
13535 1991 RS ₁₃	5.22705		2 p Ns	14090 1997 MS ₃	3.08	0.27	2 W
13536* 1991 RA ₁₅	8.749	0.22–0.23	2 W	14095 1997 PE ₂	19.532	0.58	2 W
13553 Masaakikoyama	38.	1.1	NT	14111* Kimamos	6.623	0.42–0.49	2 W
13555 1992 JB ₂	7.0	0.52	2	14125* 1998 QT ₆₂	6.0275	0.29	3–
13567 Urabe	5.960	0.24	2 W	14133 1998 RJ ₁₇	5.23990	1.11–1.15	3
13573 1993 FZ ₁₈	3.06	0.07	2– A	14137* 1998 RB ₇₁	9.23	0.60–0.88	2 W
13575 1993 GN	13.537	0.20	2 W	14141 Demeautis	2.897	0.14	2
13578 1993 MK	3.960	0.10–0.55	3	14142 1998 SG ₁₀	>50.	1.3	2
13580 de Saussure	12.31	0.17	2 W	14144 1998 SQ ₂₂	5.064	0.55	2 W
13593 1994 NF ₁	113.739	0.64	2 W	14151* 1998 SJ ₇₃	4.95	0.19	2 W
13607 Vicars	4.133	0.32	2 W	14160 1998 SB ₁₄₄	4.8		N
13608 Andosatoru	2.053	0.06	1 W	14161* 1998 SO ₁₄₅	2.38	0.21	2 W
13609 Lewicki	12.67	0.45	2+	14162 1998 TV ₁		0.24	N
13637 1995 YO ₃	3.600	0.39	2 W	14164 Hennigar	11.859	0.71–0.90	2 W
13642 Ricci	3.076	0.76	2 W	14168 1998 UR ₁₅	5.844	0.22	2 W
13643 Takushi	83.838	1.00	2+ T0	14170 1998 VF ₆	4.119	0.34	2 W
13644 Lynnanderson	21.844	0.97	2 W	14174* Deborahsmall	2.901	0.27–0.41	2 W
13651 1997 BR	33.644	1.2	3 T	14190 Soldán	21.731	0.44	2 W
13678* Shimada	6.8025	0.13	2+	14192 1998 XA ₃₃	2.352	0.07	1 W
13679 Shinanogawa	>8.		N	14196 1998 XH ₅₉	3.2437	0.22–0.25	3
13681 Monty Python	5.030	0.41	2 W	14197* 1998 XK ₇₂	10.7	0.62–0.67	3– p W
13693 Bondar	11.555	0.61	2 W	14201 1998 XR ₉₂	3.283	0.07	1 W
13694 1997 WW ₇	30.64	0.39	2	14203 Hocking	9.08566		p Ns
13698 1998 KF ₃₅	83.506	0.35	2 W	14208 1999 CR ₆₄	18.2	0.49	2
13699 Nickthomas	7.319	0.07	3	14209 1999 CV ₈₁	50.344	0.59	2 W
13709 1998 QE ₁₃		0.47	N	14211 1999 NT ₁	3.5856	0.12–0.17	3
13711 1998 QB ₂₆	55.026	0.23	2 W	14218 1999 VS ₃₀	6.245	0.10	2 W
13713 1998 QN ₃₀	6.338	0.65	2 W	14222 1999 WS ₁	24.869	0.09	1 W
13717 Vencill	24.00	0.33	2 W	14234 Davidhoover	5.824	0.55	2 W
13732 Woodall	8.2987	0.27	3	14238 d'Artagnan	9.671	0.34	2 W
13737* 1998 RU ₇₆	7.74	0.86	2 W	14241 2000 AF ₅	11.506	0.73	2 W
13762 1998 SG ₁₃₀	2.7587	0.25	3	14243 2000 AH ₂₉	10.199	0.73	2 W
13765* Nansmith	10.526	0.06	3	14246 2000 AN ₅₀	5.774	0.70	2 W
13777* Cielobuio	5.39	0.15	2 W	14255 2000 AS ₇₀	12.772	0.32	2
13788 Dansolander	6.760	0.24	2 W	14256* 2000 AA ₉₆	>96.	>0.7	2–
13806 Darmstrong	>20.	>0.15	1+	14257 2000 AR ₉₇	13.584	0.67	3 p
13809 1998 XJ ₄₀	40.256	0.41	2 W	14268 2000 AK ₁₅₆	7.51	0.27	3–
13812* 1998 YR	3.913	0.45–0.48	2 W	14269 2000 AH ₁₈₂	>24.	>0.1	1
13813 1998 YX	5.401	0.16	2 W	14276 2000 CF ₂		0.12	N
13822 Stevedodson	5.590	0.58	2+	14279* 2000 CD ₆₅	8.72	0.42	1 DAW
13823 1999 VO ₇₂	3.741	0.63	2 W	14299 3162 T–2	17.424	0.38	2
13828 1999 WL ₆	22.369	0.08	1 W	14301 5205 T–2	25.546	1.10	2 W
13839 1999 XF ₂₉	13.302	0.04	1 W	14305 3437 T–3	3.937	0.50	2 W
13846 1999 XV ₆₉	50.950	0.26	2 W	14306 4327 T–3	11.078	0.50	2 W
13853 Jenniferfritz	10.367	0.74	2 W	14327 Lemke	5.698	0.38	2 W
13854 1999 XX ₁₀₄	246.740	0.79	2 W	14333 1981 ED ₃₄	3.825	0.54	2 W
13855 1999 XX ₁₀₅	3.023	0.31	2 W	14335 Alexosipov	7.18	0.10	3
13856 1999 XZ ₁₀₅	4.4475	0.45	3	14342 Igluka	3.9867	0.53	3
13860* Neely	13.864	0.43–0.43	2 W	14359 1988 CU ₁	7.147	0.36	2 W
13866 1999 XS ₁₇₄	5.355	0.17	2 W	14360 Ipatov	10.912	0.24	2 W
13883 7066 P–L	3.661	0.89	2 W	14362 1988 MH	3.639	0.44	3
13885 2104 T–1	4.797	0.90	2 W	14370 1988 VR ₂	2.801	0.14	2 W
13892* 1266 T–2	2.35	0.28	2 W	14376 1989 ST ₁₀	5.614	0.64	3
13894 2039 T–2	5.478	0.58	2 W	14382* Woszczyk	6.577	0.29–0.31	2 W
13903 1975 ST	12.933	0.64	2+	14383* 1990 OY ₃	8.713	0.29–0.32	2 W
13906 Shunda	2.75	0.09	N	14385* 1990 QG ₁	3.78	0.32–0.33	2 W
13913 1979 SO	15.504	0.30	2 W	14395 Tommorgan	35.5	0.61	2+
13919* 1984 SO ₄	6.02	0.48–0.79	2 W	14402 1991 DB	2.2656	0.11–0.20	2+
13921 Sgarbini	3.679	0.10–0.12	2+ A	14409 1991 RM ₁	8.691	0.49	2 W
13924 1986 PE ₁	6.089	0.34	2 W	14411 Clérambault	3.053	0.44	2 W
13939 1989 SJ ₂	7.360	0.99	2 W	14430* 1992 CH	4.84	0.38–0.39	2+ W
13945 1990 OH ₂	4.764	0.21	2 W	14431 1992 DX ₈	9.222	0.26	2 A
13952* Nykvist	7.349	0.99–1.17	2 p s	14434* 1992 ER ₁₁	4.17	0.13	1+ W
13956 Banks	6.218	0.75	2 W	14436 Morishita	972.808	0.82	2 W
13959 1991 EL ₄	3.124	0.58	2 W	14439* Evermeersch	9.94	0.38	1 HW
13971* 1991 UF ₁			HNW	14451 1992 WR ₅	126.550	0.38	2 W
13977* Frisch	4.9991	0.15–0.18	3	14452 1992 WB ₉	135.824	0.59	2 W
13981 1992 OT ₉	5.910	0.40	2 W	14456 1993 FK ₂₀	5.711	0.27	2 W
13991 Kenphillips	3.523	0.37	2 W	14465 1993 NB	4.9703	0.49–0.69	3
13995 Töravere	22.627	0.82	2 W	14466 Hodge	10.191	0.39	2 W
14004 Chikama	3.263	0.14	2 W	14470 1993 RV ₇	3.565	0.52	2 W
14008* 1993 TD ₁₇	5.065	0.25–0.28	2 W	14471 1993 SG ₁	77.623	0.56	2 W
14014 Münchhausen	6.867	0.57	2 W	14481* 1994 PO ₁₂	6.763	0.56–0.68	2 W
14016 Steller	3.797	0.78	2 W	14495 1995 AK ₁	8.8	0.27	2+
14031 Rozyo	2.90065		p Ns	14505 Barentine	2.892	0.41	2 W
14032 Mego	40.32	0.07	1	14511* Nickel	35.590	0.64–0.72	2 W
14040 Andrejka	310.	0.95	2 T0	14515 Koichisato	4.265	0.51	3–
14044 1995 VS ₁	9.25874		p Ns	14540* 1997 RJ ₁₀	5.096	0.78–0.81	2 W

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Planet	Period	Variation	Note	Planet	Period	Variation	Note
14544 Ericjones	18.081	0.14	2 W	14946* 1996 AN ₂	5.148	0.38–0.42	2 W
14564 Heasley	10.091	0.63	2 W	14950 1996 BE ₂	3.27915	0.33	3
14568 Zanotta	3.523	0.12	2 W	14962 Masanoriabe	19.496	0.30	2 W
14577 1998 QN ₉₃	3.094	0.26	2 W	14963* Toshikazu	7.11	0.31	2 W
14594 Jindrašilhan	10.179	0.08	1 W	14965* Bonk	2.84735	0.31	3
14599 1998 SV ₆₄	5.033	0.10	1 W	14968 Kubáček	4.89	0.48	3–
14609 1998 SW ₁₄₅	5.540	0.51	2 W	14974* Počátky	21.728	0.57–0.68	2 W
14614* 1998 TX ₂	3.64	0.25–0.42	2	14977* Bressler	44.139	0.71–0.93	2 W
14620* 1998 UP ₁₅	4.439	0.23–0.24	2 W	14980 Gustavbrom	122.646	0.51	2 W
14625* 1998 UH ₃₁	4.48682	0.38–0.41	3–	14982 1997 TH ₁₉		0.10	N
14627 Emilkowalski	11.131	0.55–0.66	3	14985* 1997 UU ₂	13.792	0.13–0.16	2 W
14643 Morata	>24.	>0.1	1	14990* Zermelo	4.814	0.45–0.46	2 W
14651 1998 YE ₅	44.363	0.33	2 W	14992* 1997 UY ₁₄	12.958	0.47–0.50	2 W
14653 1998 YV ₁₁	11.389	0.20	2+	15004 Vallerani	24.302	0.07	1 W
14654* Rajivgupta	5.19	0.65	2 W	15037 Chassagne	29.836	0.35	2 W
14657* 1998 YU ₂₇	33.58	0.30–0.46	2	15048 1998 XQ ₆₃	13.006	0.07	1 W
14659 Gregoriana	9.639	0.15	1	15050 Heddal	4.768	0.76	2 W
14660 1999 BO ₁	6.565	0.44	2 W	15062 1999 AL ₂	6.821	0.54	2 W
14668 1999 CB ₆₇	2.89	0.06	2	15075 1999 BF ₁₅	16.00	0.14	2 W
14671 1999 RM ₄₉	7.579	0.82	2 W	15084* 1999 CH ₃₈	5.039	0.17–0.27	2 W
14672 1999 RO ₉₄	2.896	0.16	2 W	15085* 1999 CB ₄₃	5.530	0.25–0.26	2 W
14678* Pinney	5.08	0.16	2 W	15095 1999 WO ₃	3.583	0.48	2 W
14681 Estellechurch	12.466	0.65	2 W	15096* 1999 XH ₁₂	3.41	0.21–0.26	3 W
14690* 2000 AR ₂₅	8.519	0.21–0.22	2+	15105 2000 BJ ₄	6.257	0.60	2 W
14691* 2000 AK ₁₁₉	3.652	0.70–0.84	3 p	15106 Swanson	39.580	0.48	2 W
14712* 2000 CO ₅₁	13.7	0.50–0.70	2 W	15107 Toepperwein	2.5294	0.13	3
14714* 2000 CQ ₆₅	2.805	0.44–0.68	2 W	15110* 2000 CE ₆₂	5.462	0.66–1.03	2 W
14716 2000 CX ₈₁	5.457	0.25	2 W	15118 Elizabethsears	13.756	0.25	2 W
14720 2000 CQ ₈₅		0.35	N	15124 2000 EZ ₃₉	9.488	0.12	2 W
14721 2000 CW ₉₁	46.072	0.10	1 W	15126 Brittanyanderson	2.59	0.03	1+
14726 2000 DD ₃	4.023	0.25	2 W	15141 2000 EP ₁₀₆	7.897	0.19	2 W
14728 Schuchardt	4.636	0.9	2 A	15149 Loufaix	10.571	0.77	2 W
14730 2000 DS ₁₉	4.735	0.29	2 W	15151* Wilmacherup	4.5611	0.47–0.61	3
14735 2000 DV ₈₆	8.488	0.13	2 W	15153* 2000 FD ₁₇	9.125	0.32–0.32	2 W
14741* Teamequinox	4.06	0.19	2–	15154 2000 FW ₃₀	13.31	0.06	2 1
14744 2092 P–L	2.49	0.22	2 W	15158 2000 FH ₄₀	7.334	0.51	2 W
14755* 6069 P–L	3.27	0.33–0.42	2 W	15161 2000 FQ ₄₈	6.663	0.10	2
14756* 6232 P–L	4.51	0.41	2 W	15177 6599 P–L	11.742	0.61	2 W
14761 6608 P–L	7.03	0.27	2	15184 3232 T–1	5.852	0.69	2 W
14764 Kilauea	19.84	0.50–1.2	2 T+	15190 3353 T–2	5.251	0.37	2 W
14768* 1238 T–1	9.339	0.46–0.52	2 W	15191 4234 T–2	4.194	0.55	2 W
14770 2198 T–1	14.894	0.32	2 W	15195* 2407 T–3	13.315	0.41–0.42	2 W
14774 4845 T–1	287.425	0.50	2 W	15201 1976 UY	4.786	0.65	2 W
14779* 3072 T–2	35.071	0.50–0.64	2 W	15203* Grishanin	11.6388	0.44	3–
14787* 5038 T–3	12.47	0.42	2–	15213 1980 UO ₁	4.933	0.31	2 W
14789 GAISH	8.086	0.82	2 W	15217 1981 ET ₁₉	14.023	0.55	2 W
14790 Beletskij	3.146	0.28–0.29	3	15222 1982 FL ₁	7.027	0.55	2 W
14791* Atreus	19.615	0.37	2+	15224* Penttilä	4.377	0.46–0.64	3–
14795 Syoyou	3.43	0.15	2 W	15226 1986 UP	2.053	0.50	2 W
14804 1981 EW ₁₃	3.619	0.25	2 W	15235 1988 DA ₅	4.109	0.52	2 W
14805 1981 ED ₁₅	2.053	0.09	1 W	15241 1989 ST ₃	133.783	0.10	1 W
14806 1981 EV ₂₅	3.373	0.43	2 W	15250* Nishiyamahiro	6.764	0.59–0.66	2 W
14813 1981 QW ₂	4.977	0.49	2 W	15252 Yoshiken	22.218	0.09	1 W
14815* Rutberg	150.	0.5 –1.0	2 T0	15254 1990 QM ₄	2.318	0.10	1 W
14819 Nikolaylaverov	103.267	0.58	2 W	15256 1990 RD ₁	22.824	0.46	2 W
14823 1984 ST ₅	7.364	0.53	2 W	15257* 1990 RQ ₈	6.67	1.01	2 W
14827 Hypnos	>12.	0.05	1	15258 Alfipenko	4.366	0.11	2 W
14829 Povalyaeva	>12.	>0.2	1	15262 Abderhalden	3.533	0.21	2 W
14831 Gentileschi	46.474	0.65	2 W	15264* Delbrück			HNW
14832* Alechinsky	8.07	0.98–1.30	2+	15267* Kolyma	4.9649	0.69	3
14835 Holdridge	>10.	>0.08	N	15268 Wendelinefroger	2.4224	0.07	3 B
14839 1988 RH ₈	7.339	0.27	2 W	15269 1990 XF	26.708	0.55–0.62	3
14863 1990 OK	8.429	0.61	2 W	15271 1991 DE	6.908	0.58	2+
14868 1990 RA ₇	9.78	0.1	1	15274 1991 GO ₆	128.603	0.30	2 W
14873 Shoyo	3.5746	0.52	3	15275* 1991 GV ₆	3.28	0.23	2 W
14882 1991 PP ₁₁	13.736	0.35	2 W	15277 1991 PC ₇	2.75	0.33	2–
14886 1991 RL ₉	6.366	0.42	2 W	15278* Pâquet	40.01	0.41	3–
14889 1991 VX ₂	16.096	0.41	2 W	15279 1991 PY ₇	8.145	0.09	1 W
14901 Hidatakayama	4.0625	0.41	2+	15288 1991 RN ₂₇	7.14	0.19	2+
14909 Kamchatka	15.602	0.10	1 W	15293 1991 VO ₃	96.940	0.63	2 W
14910* 1993 QR ₄	5.148	0.59–0.64	2 W	15312 1993 FH ₂₇	149.383	0.46	2 W
14916 1993 VV ₇	13.496	0.16	2 W	15317 1993 HW ₁	2.6580	0.20–0.29	3
14918 1994 BP ₄	7.554	0.81	2 W	15329 Sabena	3.549	0.18	2 W
14919 Robertohaver	53.045	0.55	2 W	15337 1993 VT ₂	3.338	0.27	3
14920 1994 PE ₃₃	367.080	0.54	2 W	15338* Dufault	9.351	0.76–1.08	2 W
14921 1994 QA	12.9134	0.32	3	15339* Pierazzo	5.61	0.25–0.27	2 W
14923* 1994 TU ₃	7.300	0.34	2+	15343 1994 PB ₁	7.434	0.60	2 W
14927 Satoshi		0.55	N	15350 Naganuma	2.5835	0.07–0.20	3
14933 1994 YX	4.926	0.34	2 W	15352 1994 VB ₇	12.63	0.30	2 W
14934 1995 BP	2.79	0.25	2	15360 Moncalvo	5.71	0.13	2 W

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15362 1996 <i>ED</i>	31.4	0.50	3-	15702 Olegkotov	2.46	0.05	N
15363 Ysaye	4.5286	0.11	2	15714* 1989 <i>TL</i> ₁₅	3.72	0.33	3- W
15374 Teta	2.8204	0.30-0.39	3-	15719 1990 <i>CF</i>	4.771	0.13	2 W
15383 1997 <i>SE</i> ₃	8.480	0.52	2 W	15724 Zille	>5.	0.20	2- W
15385 Dallolmo	4.678	0.16	2 W	15732 Vitusbering	9.604	0.29	2 W
15393* 1997 <i>TR</i> ₂₄	4.68	0.35	2 W	15734* 1990 <i>WV</i> ₁	17.2	0.55-0.69	2 W
15398 1997 <i>UZ</i> ₂₃		0.98	1	15748 1991 <i>RG</i> ₂₅	19.697	0.38	2 W
15402 Suzaku	3.13	0.45	2 W	15752 Eluard	6.423	0.32	2 W
15408* 1997 <i>WU</i> ₂₁	30.414	0.21-0.23	2 W	15753 1992 <i>DD</i> ₁₀	3.197	0.30	2 W
15409* 1997 <i>WQ</i> ₃₁	2.723	0.13-0.16	2 W	15755 1992 <i>ET</i> ₅	6.252	0.36	2 W
15411 1997 <i>YL</i> ₁	4.389	0.19	2 W	15758 1992 <i>FT</i> ₁	10.13	0.6	2
15414* Pettrossi	2.71	0.17-0.21	2 W	15761 Schumi	3.768	0.41	2 W
15415 Rika	6.3632	1.06	3	15769 1993 <i>FP</i> ₂₃	5.794	0.85	2 W
15417 Babylon	39.251	0.42	2 W	15770* 1993 <i>FL</i> ₂₉	9.90	0.40-0.48	2 W
15421 Adammalin	7.538	0.35	2 W	15775 1993 <i>FA</i> ₄₉	4.186	0.09	1 W
15423* 1998 <i>QP</i> ₄₅	4.425	0.31-0.32	2 W	15777 1993 <i>LF</i>	2.637	0.24	2 W
15424* 1998 <i>QE</i> ₁₀₀	10.9000	0.30-0.42	3	15778* 1993 <i>NH</i>	113.	0.61	2 B?
15430* 1998 <i>UR</i> ₃₁	2.52735	0.10-0.11	3 B?	15785 de Villegas	7.728	0.41	2 W
15432 1998 <i>VA</i> ₅	95.115	0.90	2 W	15786* 1993 <i>RS</i>	6.82	0.08-0.21	2 A
15434 Mittal	8.52	0.65	3-	15789 1993 <i>SC</i>		<0.04	
15436* 1998 <i>VU</i> ₃₀	8.970	0.15-0.29	3	15790 Keizan	19.68	0.25	2-
15440* 1998 <i>WX</i> ₄	40.95	0.10-0.16	3-	15793 1993 <i>TG</i> ₁₉	22.4	0.71	N
15460 Manca	7.272	0.22	2 W	15798 1993 <i>VZ</i> ₄	3.578	0.63	2 W
15464 1999 <i>AN</i> ₅	6.582	0.20	2 W	15800 1993 <i>XP</i>	4.516	0.86	2 W
15468 Mondriaan	2.64	0.10	2 W	15806 Kohei	145.700	0.29	2 W
15474* 1999 <i>BG</i> ₁₁	3.53	0.38-0.42	3- W	15817 Lucianotesi	>11.	>0.9	N
15476 Narendra	3.036	0.08	1 W	15820 1994 <i>TB</i>	6.5	0.3	2
15481* 1999 <i>CK</i> ₁₉	5.010	0.10-0.14	2 W	15821 Iijimatatsushi	7.824	0.57	2 W
15491 1999 <i>CW</i> ₈₅	3.903	0.10	2 W	15822* 1994 <i>TV</i> ₁₅	2.95998	0.18-0.36	3 B
15492* Nyberg	8.256	0.27-0.29	2 W	15825 1994 <i>WX</i> ₁	7.516	0.19	2 W
15498* 1999 <i>EQ</i> ₄	34.579	0.14-0.16	2 W	15840 Hiroshiendou	6.449	0.31	2 W
15499* Cloyd	6.878	0.21-0.30	2+	15850 1996 <i>AE</i> ₁	8.332	0.49	2 W
15502* 1999 <i>NV</i> ₂₇	15.076	0.10-0.18	3-	15860* Siran	10.532	0.56-0.75	2 W
15505* 1999 <i>RF</i> ₅₆	15.11	0.10	2+	15861 Ispahan	169.464	0.33	2 W
15512 Snyder	2.738	0.22	2 W	15863* 1996 <i>HT</i> ₁₅	2.91	0.16	2 W
15515 1999 <i>VN</i> ₈₀	4.1694	0.37-0.44	3-	15866 1996 <i>KG</i>	17.059	0.38	2 W
15518 1999 <i>VY</i> ₁₅₃	16.245	0.28	2 W	15874 1996 <i>TL</i> ₆₆	12.	0.07	1 1A
15519 1999 <i>XW</i>	14.290	0.36	2 W	15875 1996 <i>TP</i> ₆₆		<0.12	
15520 1999 <i>XK</i> ₉₈	8.7904	0.85	3	15878 1996 <i>XC</i> ₃	4.918	0.53	2 W
15522 Trueblood	7.183	0.53	2 W	15882* 1997 <i>CF</i> ₂₉	5.050	0.31-0.38	2 W
15523 Grenville	5.745	0.24	2 W	15914 1997 <i>UM</i> ₃	12.8	0.5	2 A
15527 1999 <i>YY</i> ₂	6.9903	0.54	3	15915 1997 <i>UR</i> ₃	3.370	0.31	2 W
15529* 2000 <i>AA</i> ₈₀	375.	0.59	2 HW	15938 Bohnenblust	3.906	0.12	2+
15530 Kuber	6.937	0.28	2 W	15941 Stevegauthier	9.90	0.28	2 W
15533 2000 <i>AP</i> ₁₃₈	114.	0.38	3 T0	15954 1998 <i>BG</i> ₁₁	8.031	0.80	2 W
15535* 2000 <i>AT</i> ₁₇₇	6.016	0.26-0.32	2+ A	15964 Billgray	3.571	0.21-0.47	3
15536 2000 <i>AG</i> ₁₉₁	11.71	0.45	2	15967 Clairearmstrong	5.897	0.33-0.41	3
15538 2000 <i>BW</i> ₁₄	2.974	0.32	2 W	15968* Waltercugno	5.19	0.25	2+ W
15539 2000 <i>CN</i> ₃	46.25	0.30	3-	15973* 1998 <i>FM</i> ₈₅	5.851	0.40-0.42	2 W
15545* 2000 <i>EK</i> ₄₆	25.130	0.37-0.44	2 W	15977* 1998 <i>MA</i> ₁₁	250.	0.30-0.30	2- T?
15552 Sandashouinkan	33.62	1.44	2	15979* 1998 <i>QW</i> ₃₄	6.420	0.44-0.47	2 W
15558 2000 <i>GR</i> ₂	2.692	0.23	2 W	16009* 1999 <i>CM</i> ₈	16.70	0.54-0.65	2+ p
15563* Remsberg	12.716	0.36-0.45	2 W	16016* 1999 <i>CB</i> ₅₄	9.85	0.54-0.58	2 W
15564* 2000 <i>GU</i> ₄₈	6.08	0.37-0.38	2 W	16018 1999 <i>CJ</i> ₆₇	>24.	0.05	1
15568* 2000 <i>GP</i> ₅₄	5.718	0.91-1.07	2 W	16021* Caseyvaughn	13.0	0.21-0.24	2 W
15579 2000 <i>GP</i> ₇₀	2.810	0.14	1 W	16024 1999 <i>CT</i> ₁₀₁	2.804	0.13	2 W
15583 Hanick	14.969	0.42	2 W	16026 1999 <i>CM</i> ₁₁₈	11.3	0.21	2-
15585 2000 <i>GR</i> ₇₄		0.21	N	16027 1999 <i>DV</i> ₁	5.732	0.43	2 W
15587* 2000 <i>GK</i> ₇₆	34.545	0.44-0.51	2 W	16029* 1999 <i>DQ</i> ₆	5.95	0.67-0.76	3-
15596* 2000 <i>GZ</i> ₉₅	2.923	0.25-0.35	2 W	16034* 1999 <i>FW</i> ₃₂	3.700	0.34-0.38	2 W
15607 2000 <i>GA</i> ₁₂₄	3.588	0.16-0.21	3	16038 1999 <i>GD</i> ₁₈	6.950	0.16	2 W
15609 Kosmaczewski	5.22	0.15	2	16048 1999 <i>JU</i> ₂₃	6.11	0.33	2 W
15613 2000 <i>GH</i> ₁₃₆	3.418	0.78	2 W	16050 1999 <i>JN</i> ₃₅	3.913	0.25	2 W
15614 Pillinger	39.561	0.80	2 W	16054 1999 <i>JP</i> ₅₅	87.450	0.56	2 W
15615 2000 <i>HU</i> ₁	5.652	0.26	2 W	16055 1999 <i>JQ</i> ₅₆	94.273	1.05	2 W
15621* Erikhovland	5.3426	0.85-0.89	3 p	16057 1999 <i>JO</i> ₇₅	5.106	0.33	2 W
15626* 2000 <i>HR</i> ₅₀	13.277	0.68	2 W	16062 Buncher	8.123	0.49	2 W
15630* Disanti	8.064	0.18-0.20	2 W	16064 Davidharvey	178.5	0.7	2 T
15634 2000 <i>JD</i> ₁₅	3.002	0.24	2 W	16070 1999 <i>RB</i> ₁₀₁	20.24	0.09-0.40	2
15638* 2000 <i>JA</i> ₆₅	5.914	0.38-0.47	2 W	16076 Barryhaase	4.795	0.27	2 W
15645 4163 <i>P-L</i>	5.638	0.37	2 W	16081 1999 <i>SR</i> ₁₅	6.531	0.25	2 W
15658 1265 <i>T-2</i>	277.442	0.49	2 W	16089* Lamb	17.363	0.15-0.16	2 W
15659 2141 <i>T-2</i>	135.212	0.47	2 W	16091 Malchiodi	20.362	0.30	2 W
15670 1975 <i>SO</i> ₁	21.33	0.23	2 W	16097 1999 <i>UE</i> ₅₀	10.471	0.71	2 W
15677 1980 <i>TZ</i> ₅	5.614	0.78	2 p s	16103* Lorsolomon	4.32	0.36	2+ W
15692 1984 <i>RA</i>	37.44	0.66	2	16106 Carmagnola	3.673	0.23	2 W
15693 1984 <i>SN</i> ₆	5.316	0.32	2 W	16114 Alyono	7.893	0.14	2 W
15699 Lyytinen	2.7818	0.11	2-	16115 1999 <i>XH</i> ₂₅	14.68	0.26	2-
15700 1987 <i>QD</i>	3.0586	0.07	3 B?	16123* Jessiecheng	3.98	0.11-0.18	2+ W
15701 1987 <i>RG</i> ₁	109.416	0.50	2 W	16124* Timdong	10.54	0.25	1 DAW

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Planet	Period	Variation	Note	Planet	Period	Variation	Note
16130 Giovine	6.519	0.16	2 W	16539 1991 PY ₁₂	4.8	0.17	2-
16134 1999 XE ₁₀₀	11.109	0.35	2 W	16541* 1991 PW ₁₈	7.01	0.33-0.51	2
16135 Ivarsson	8.273	0.31	1+	16551 1991 RT ₁₄	16.193		N
16139 1999 XO ₁₂₀	3.896	0.36	2 W	16556 1991 VQ ₁		0.17	N
16141 1999 XT ₁₂₇	6.1	0.80	3-	16558 1991 VQ ₂	170.	1.0	2- T0
16143* 1999 XK ₁₄₂	6.393	0.76-1.00	2 W	16562 1992 AV ₁	20.18	0.04-0.23	3-
16148* 1999 XG ₁₈₈			HNW	16565* 1992 CZ ₁	5.790	0.50-0.53	2 W
16152* 1999 YN ₁₂	22.996	0.55-0.75	2 W	16568 1992 DX ₅	4.302	0.14	2 W
16155 Buddy	15.896	0.65	2 W	16585* 1992 QR	5.250	0.20-0.44	3
16159 2000 AK ₆₂	13.482	0.37	2 W	16589 Hastrup	128.	0.13-0.62	2 T
16162 2000 AD ₆₈	10.398	0.40	2 W	16591 1992 SY ₁₇	2.73728	0.18	2
16164* Yangli	>20.	>0.35	2- W	16592 1992 TM ₁	137.686	0.19	2 W
16173 2000 AC ₉₈	6.4842	0.36	3 p	16594 Sorachi	4.528	0.19	2 W
16174* Parihar	4.346	0.13-0.21	2 W	16621 1993 FA ₈₄	3.326	0.27	2 W
16182 2000 AH ₁₃₇		0.10	N	16624 Hoshizawa	2.762	0.18	2 W
16185 2000 AH ₁₆₄	5.901	0.70	2 W	16626* Thumper	6.813	0.37-0.47	2 W
16197 Bluepeter	2.708	0.23	3-	16630 1993 NZ ₁	5.039	0.08	1 W
16199 Rozenblyum	3.961	0.73	2 W	16634* 1993 OD ₈	4.90	0.22	2- W
16202* Srivastava	4.38	0.21	2 W	16635* 1993 QO	2.20827	0.17	3 B
16204* 2000 CT ₃₃	4.21	0.45-0.49	2 W	16636* 1993 QP	19.01	0.41-0.41	3-
16210 2000 CY ₆₁	9.633	0.89	2 W	16638 1993 QN ₃	34.632	0.37	2 W
16214 Venkatachalam	6.272	0.28	2 W	16641 Esteban	79.62	1.08-1.42	3-
16216 2000 DR ₄	10.36816		p Ns	16642* 1993 RK ₄	9.026	0.60-0.61	2 W
16224 2000 DU ₆₉	10.310	0.11	2 W	16655 1993 TS ₃₃	3.12	0.17	2- W
16228 2000 EC ₃₉	6.2	0.10	2- W	16669* Rionuevo	4.953	0.47-0.73	3
16231 Jessberger	135.720	0.87	2 W	16672 Bedini	9.540	0.35	2 W
16233 2000 FA ₁₂	3.1811	0.17-0.18	3	16679 1994 EQ ₂	13.501	0.77	2 W
16240 2000 GJ ₁₁₅	161.441	0.74	2 W	16681* 1994 EV ₇	5.3147	0.81-1.12	3
16242 2000 GT ₁₂₆	9.050	0.28	2 W	16682 Donati	4.669	0.42	2 W
16248 Fox	5.057	0.36	2 W	16690* Fabritius	8.020	0.72	2 W
16251 Barbifrank	28.209	0.20	2 W	16691 1994 VS	1.36	0.25	N
16256 2000 JM ₂	63.5	0.98	2+ T0	16694 1995 AJ		0.15	N
16276 2000 JX ₆₁	646.747	0.62	2 W	16696* Villamayor	4.51	0.46-0.53	2 W
16286 4057 P-L	5.239	0.67	2 W	16698 1995 CX	>25.	0.20	N
16287 4096 P-L	19.272	0.32	2 W	16706* Svojsik	5.866	0.09	1
16306* 6797 P-L	5.203	0.46-0.52	2 W	16721 1995 WF ₃	14.666	0.57	2 W
16326* 2052 T-2	2.883	0.25-0.28	2 W	16734* 1996 HZ ₂₂	8.339	0.40-0.57	2 W
16338* 1106 T-3	29.226	0.09	2 A	16743* 1996 OQ	2.743	0.18-0.19	2 W
16342 2271 T-3	6.048	0.43	2 W	16747 1996 PS ₈	2.873	0.26	2 W
16343 2326 T-3	6.281	0.58	2 W	16754 1996 RW	3.281	0.13	2 W
16345 2391 T-3	2.9	0.2	2- W	16756 1996 RQ ₁₁	5.519	0.32	2 W
16347 3256 T-3	10.798	0.46	2 W	16765 Agnesi	7.546	0.31	2 W
16353 1974 WB	216.629	0.43	2 W	16773 1996 VO ₁	5.345	0.45	3
16357 Risanpei	7.368	0.26	2 W	16774 1996 VP ₁	18.562	0.08	1 W
16358 Plesetsk	6.560	0.47	3	16776 1996 VA ₈	97.879	1.07	2 W
16371 1981 DQ ₃	3.698	0.23	2 W	16786* 1997 AT ₁	4.02	0.50-0.52	2 p s
16372 1981 EP ₁	3.191	0.48	2 W	16790 Yuuzou	8.576	0.38	2 W
16377 1981 EY ₁₁	12.167	0.27	2 W	16804 Bonini	10.8634	0.61	3
16382 1981 ER ₂₇	4.9	0.46	2 W	16808* 1997 TV ₂₆	20.43	0.81	2-
16384 1981 ES ₃₁	43.768	0.57	2 W	16813* 1997 UT ₆	8.768	0.24-0.29	2 A
16402* Olgapopova	3.7740	0.18	3-	16815 1997 UA ₉	2.9174	0.18-0.20	3-
16403 1984 WJ ₁	7.5391	0.14-0.18	3 p	16819 1997 VW	274.922	0.50	2 W
16404 1985 CM ₁		0.1		16825 1997 VC ₈	2.46	0.08	2 W
16416 1987 SM ₃	36.506	0.38	2 W	16831 1997 WM ₂₁	8.1072	0.16	2+
16421 Roadrunner	174.	1.00-1.25	3 T0	16834* 1997 WU ₂₂	9.345	0.29-0.60	3
16426 1988 EC	33.30	0.18-0.27	3-	16843* 1997 XX ₃	275.	0.41	2 T?
16428 1988 RD ₁₂	20.312	0.46	2 W	16847 Sanpolaomosciano	8.182	0.56	2 p
16432 1988 VL ₂	2.695	0.08	1 W	16849 1997 YV	6.0472	0.75	3
16433 1988 VX ₂	5.371	0.22	2 W	16858 1997 YG ₁₀	5.232	0.24	2 W
16439 Yamehoshinokawa	92.459	0.42	2 W	16864 1998 AL	19.166	0.31	2 W
16446 1989 MH	4.977	0.65	2 W	16872 1998 BZ	2.810	0.45	2 W
16457 1989 VF	14.422	0.17	2 W	16875 1998 BD ₄	5.323	0.66	2 W
16462 1990 DZ ₁	62.366	0.97	2 W	16876 1998 BV ₆	25.940	0.38	2 W
16463 Nayoro	14.666	0.26	3	16879 Campai	314.247	0.68	2 W
16464 1990 EV ₁	3.820	0.22	2 W	16885 1998 BX ₂₅	4.992	0.36	2 W
16468 1990 HW ₁	94.13		p N	16886 1998 BC ₂₆	5.9908	0.18	3-
16478 1990 QS ₆	2.704	0.21	2 W	16890 1998 BJ ₃₃	57.555	0.97	2 W
16483 1990 QX ₈	12.032	0.17	2 W	16892 Vaissière	3.33	0.18	2 W
16488 1990 RX ₈	3.090	0.15	2 W	16896 1998 DS ₉	708.	0.43	3- T?
16490* 1990 ST ₂	14.77	0.21	1 W	16903 1998 DD ₁₅	14.862	0.62	2 W
16497 Toinevermeylen	2.761	0.21	2 W	16909 Miladejager	6.786	0.38	2 W
16499 1990 SU ₉	5.04	0.58	2 W	16917 1998 FB ₂₉	321.546	0.69	2 W
16509* 1990 UE ₄	5.591	0.29-0.32	2 W	16923* 1998 FB ₆₁	5.916	0.57-0.59	2 W
16512 1990 VQ ₄	37.467	0.48	2 W	16924 1998 FL ₆₁	4.399	0.50	2
16513 Vasks	26.333	0.09	1 W	16927* 1998 FX ₆₈	33.856	0.73	3
16514 Stevelia	5.724	0.68	2 W	16935 1998 FX ₁₁₁	6.298	0.70-0.82	3
16525* Shumarinaiko	2.5932	0.08	3 B	16936 1998 FJ ₁₁₂	>8.	0.1	1
16528* Terakado	23.38	0.55-0.63	2+	16950 1998 JQ	3.028	0.12	2 W
16531 1991 GO ₈	31.210	0.38	2 W	16954 1998 KT ₄₈	2.842	0.29	2 W
16532 1991 LY	2.766	0.23	2 W	16955 1998 KU ₄₈	5.2597	0.42-0.50	3- p

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Planet	Period	Variation	Note	Planet	Period	Variation	Note
16956 1998 MQ ₁₁	8.84	0.28	2	17414 1988 RN ₁₀		1.02	I
16959 1998 QE ₁₇	3.2266	0.30–0.45	3	17416 1988 RR ₁₀	40.966	0.44	2 W
16960 1998 QS ₅₂	5.789	0.24–1.40	2	17417 1988 RY ₁₀	6.724	0.48	2 W
16974 1998 WR ₂₁	78.9	0.25	2+	17418 1988 RT ₁₂	6.075	0.12	2 W
16977 1999 AS ₃	50.070	0.25	2	17419 1988 RH ₁₃	19.233	0.26	2 W
16979 1999 AO ₄	3.845	0.65	2	17430 1989 KF	2.227	0.08	1 W
17000* Medvedev	6.856	0.59–0.69	2	17432 1989 SR	4.089	0.37	2 W
17007 1999 CK ₆₅	11.144	0.18	3–	17438 1989 SQ ₄	3.010	0.28	2 W
17009 1999 CM ₇₀	2.730	0.10	1	17447 Heindl	2.569	0.18	3
17010* 1999 CQ ₇₂	15.781	0.63–1.00	3	17452 Amurreka	12.772	0.61	2 W
17030 Sierks	416.198	0.31	2	17457 1990 SC ₁₁	4.157	0.18	2 W
17035* Velichko	2.899	0.23–0.29	2	17469 1991 BT	17.172	0.23	2 W
17038 Wake	17.658	0.23	2	17470 Mitsuhashi	12.6	0.68	2–
17060 Mikecombi	11.4	0.33	2–	17479* 1991 PV ₉	3.146	0.31–0.34	2+
17068 1999 GO ₁₉	4.274	0.56	2	17492 Hippasos	17.75	0.21	3
17074 1999 GQ ₃₆	33.375	0.31	2	17495 1992 DY	84.796	0.60	2 W
17079 Lavrovsky	4.18	0.45	2+	17509 Ikumadan	5.788	0.40	3
17083 1999 JB ₄	6.147	0.07	2+	17511 1992 QN	5.9902	0.79–1.10	3
17091 Senthair	679.872	0.07	1	17519 Pritsak	5.727	0.23	2 W
17100 Kamiokanatsu	7.065	0.18	2	17535 1993 FF ₄₀	3.602	0.37	2 W
17102 Begzhigitova	5.341	0.3	2	17543* Sosva	7.582	0.37–0.43	2 W
17105* 1999 JC ₄₇	3.513	0.41	2	17556 Pierofrancesca	9.17	0.70	3
17111 1999 JH ₅₂	8.89847		p	17567 Hoshinoyakata	19.882	0.40	2 W
17113* 1999 JE ₅₄			HNW	17568 1994 GT ₈	3.165	0.26	2 W
17119* Alexisrodz	17.794	0.46–0.60	2	17573* 1994 PJ ₁₃	4.931	0.19–0.20	2 W
17122 1999 JH ₆₃	290.079	0.09	1	17574 1994 PT ₁₃	2.663	0.32	2 W
17124* 1999 JC ₆₅	3.37	0.30	2–	17583 1994 WV ₂	4.279	0.23	2 W
17127 1999 JE ₆₉	240.669	0.85	2	17584 1994 XF ₁	4.6398	0.56	2 T
17129 1999 JM ₇₈	6.2615	0.44–0.51	3	17590 1995 CG	49.6	0.40–0.55	2
17137 1999 JK ₈₄	11.510	0.40	2	17591 1995 DG	6.558	0.37	2 W
17148* 1999 JJ ₁₀₅	2.7778	0.20–0.25	2+	17592 1995 DR	3.25	0.10	2 W
17149 1999 JM ₁₀₅	138.110	0.50	2	17593 1995 DV	3.62	0.21	2 W
17150 1999 JP ₁₀₉	6.268	0.14	2	17595* 1995 EO	16.84	0.28	1+
17152 1999 JA ₁₁₈	9.4161	0.22	3	17599* 1995 ON ₄	3.252	0.17–0.18	2 W
17157 1999 KP ₆	3.72	0.17	2	17605 1995 SR ₂₆	6.319	0.58	2 W
17161 1999 LQ ₁₃	7.720	0.62	2	17609 1995 UR	6.545	0.55	2 W
17163 Vasifedoseev	4.112	0.23	2	17610 1995 UJ ₁	5.93	0.97	2 W
17170 Vsevastinov	3.3750	0.16	3	17619 1995 VT	3.475	0.40	2 W
17171 1999 NB ₃₈	64.79	0.66	2	17622 1995 WW ₂	6.917	0.63	2 W
17172 1999 NZ ₄₁	47.02	0.83	3–	17626 1996 AG ₂	5.716	0.25	2 W
17177 1999 TA ₄₁	7.313	0.28	2	17627 Humptydumpty	42.462	0.31	2 W
17178 1999 TK ₂₁₈	9.067	0.46	2	17633* 1996 JU	6.2098	0.21–0.26	2+
17188 1999 WC ₂	5.352	0.44	2	17645 Inarimori	137.351	0.69	2 W
17198 Gorjup	3.2430	0.12	3	17652 Nepoti	13.004	0.26	2 W
17215 Slivan	4.534	0.41	2	17655 1996 VL ₃	4.841	0.31	2 W
17217 2000 AR ₂₄₃	8.072	0.97	2	17656 Hayabusa	6.119	0.26	2 W
17226 2000 CC ₇₆	2.926	0.26	2	17657 Himawari	5.507	0.53	3
17246 Christophedumas	>10.	>0.15	B	17663 1996 VK ₃₀	34.062	0.17	2 W
17249* Eliotyoung	3.53	0.23	1+	17664 1996 VP ₃₀	3.675	0.20	3
17251 Vondracek	3.780	0.10	2	17681 Tweedledum	75.2	0.90	3 T0
17252* 2000 GJ ₁₂₇	8.824	0.21–0.23	3	17682 1997 AR ₁₂	21.079	0.25	2 W
17260 Kušnirák	3.1285	0.15–0.17	3	17683 Kanagawa	5.895	0.4	3
17266 2000 KT ₆	6.627	0.20	2	17685* 1997 AJ ₁₉	5.30	0.59	2 W
17267 2000 KY ₄₈	4.149	0.26	2	17689 1997 CS	137.105	0.46	2 W
17269 Dicksmith	18.391	0.27	2	17690 1997 CY ₂	>20.	>0.5	2 W
17271 2000 LL ₂	7.506	0.26	2	17694 Jirānek	4.65	0.33	2 W
17274 2000 LC ₁₆	16.495	0.33	3	17699 1997 GX ₇	8.909	0.27	2 W
17288 2000 NZ ₁₀	4.3	0.15	2	17700 1997 GM ₄₀	3.839	0.15	2 W
17293 2743 P–L	23.24	0.55	1	17702 Kryštofharant	2.521	0.18	2 W
17294 2787 P–L	4.443	0.53	2	17722 1997 YT ₁	8.6387	0.36	3–
17296 3541 P–L	6.205	0.71	2	17723* 1997 YA ₄	8.282	0.11	2
17297 3560 P–L	116.765	0.74	2	17731 1998 AD ₁₀	4.721	0.12	2 W
17299 4168 P–L	22.678	0.72	2	17736* 1998 BA ₁₂	3.04	0.15	2 W
17302 4610 P–L	5.015	0.70	2	17738 1998 BS ₁₅	4.235	0.10	3
17306 4865 P–L	3.128	0.28	2	17747* 1998 BJ ₄₂			HNW
17311 6584 P–L	20.793	0.34	2	17753* 1998 DZ ₅	7.867	0.79–0.93	2 W
17314 Aisakos	9.67	0.34	3	17770 Baumé	3.26	0.20	2–
17325* 3300 T–1	6.4481	0.90–0.99	3	17771* Elsheimer	15.97	0.46	2–
17335 2281 T–2	4.225	0.57	2	17779 Migomueller	6.514	0.40	2 W
17347 3449 T–3	2.748	0.29	2	17792 1998 FR ₅₆	13.934	0.50	2 W
17348 4166 T–3	3.580	0.15	2	17814 1998 FH ₁₁₃	10.11	0.39	2
17365* 1978 VF ₁₁	12.672	0.51–0.98	3	17821 Bölsche	5.934	0.32	2 W
17382 1981 EH ₁₁	4.973	0.38	2	17822 1998 FM ₁₃₅	4.613	0.28	2+
17383 1981 EE ₁₂	7.4	0.07	1	17823 Bartels	3.800	0.20	2 W
17388 1981 EZ ₂₄	6.896	0.08	1	17834* 1998 HL ₄₃	21.265	0.64–0.69	2 W
17395 1981 EA ₄₄	4.522	0.27	2	17839 1998 HN ₉₅	7.141	0.30	2 W
17399 Andysanto	2.692	0.07	3–	17845 1998 HY ₁₁₂	6.6	0.48	2
17405 1986 VQ ₂	5.076	0.42	2	17847 1998 HQ ₁₁₅	289.840	0.64	2 W
17409 1988 BA ₄	3.849	0.21	2	17848* 1998 HR ₁₃₃	6.94	0.37–0.51	2+
17411 1988 DF ₃	6.454	0.07	1	17860* Roig	2.964	0.12–0.16	2 W

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Planet	Period	Variation	Note	Planet	Period	Variation	Note
17862 1998 <i>KT</i> ₂₈	4.371	0.06	1 W	18421* 1993 <i>TV</i> ₃₄	3.603	0.30–0.31	2 W
17864* 1998 <i>KK</i> ₃₈	6.56	0.17–0.23	2 W	18433 1994 <i>EQ</i>	14.712	0.34	2 W
17868 1998 <i>KW</i> ₄₆	4.681	0.47	2 W	18434 Mikesandras	3.137	0.17	2+
17869 Descamps	11.934	0.43	2 W	18439 1994 <i>LJ</i> ₁	18.291	0.20	3–
17874 1998 <i>YM</i> ₃	9.81	0.18	2–	18443 1994 <i>PW</i> ₈	2.998	0.31	2 W
17878 1999 <i>AR</i> ₂₅	>20.	>0.3	2 W	18444* 1994 <i>PL</i> ₁₀	4.176	0.34–0.41	2 W
17892 Morecambewise	2.462	0.07	1 W	18449 Rikwouters	3.65	0.17	2 W
17894 1999 <i>FP</i>	9.960	0.67	2 W	18454 1995 <i>BF</i> ₁	16.196	0.29	2 W
17901* 1999 <i>FT</i> ₂₅	9.70	0.46	2 W	18459 1995 <i>FD</i> ₁	9.241	0.41	2 W
17919 Licandro	2.897	0.09	2 W	18474 1995 <i>WV</i> ₃	11.345	0.85	2 W
17923 1999 <i>GY</i> ₁₆	>20.	>0.1	1 W	18479 1995 <i>XR</i>	2.983	0.27	2 W
17924 1999 <i>GA</i> ₁₇	6.67	0.68	2 W	18481* 1995 <i>YH</i>	7.323	0.66–0.72	2 W
17926 Jameswu	5.343	0.18	2 W	18482 1995 <i>YO</i>	8.743	0.19–0.21	2 W
17929 1999 <i>GQ</i> ₂₁	4.443	0.71	2 W	18486 1996 <i>AS</i> ₂	3.62	0.2 –0.34	2+
17938 Tamsendrew	2.53	0.17	2–	18487 1996 <i>AU</i> ₃	6.512	0.72	2 p
17939* 1999 <i>HH</i> ₈	5.10	0.26	2 W	18493 Demoleon	14.43	0.18	2 W
17944* 1999 <i>JF</i> ₇	6.62	0.27	2 W	18495 1996 <i>HH</i> ₂₄	6.5	0.22	2 W
17953 1999 <i>JB</i> ₂₀	37.279	0.08	1 W	18498 Cesaro	8.718	0.48	2 W
17973 1999 <i>JP</i> ₅₁	10.138	0.07	1 W	18501 1996 <i>OB</i>	9.418	0.47	2 W
17974 1999 <i>JL</i> ₅₂	6.834	0.69	2 W	18503 1996 <i>PY</i> ₄	3.4390	0.25	3 W
17981 1999 <i>JZ</i> ₅₆	3.134	0.56	2 W	18523 1996 <i>VA</i> ₇	3.413	0.35	2 W
18008 1999 <i>JV</i> ₉₉	4.708	0.22	2 W	18528* 1996 <i>VX</i> ₃₀	11.433	0.53–0.55	2 W
18018 1999 <i>JR</i> ₁₂₅	5.608	0.77	2 W	18530* 1996 <i>XS</i> ₁	4.27	0.17	2 W
18031* 1999 <i>LO</i> ₁₄	17.78	0.27	2 W	18532 1996 <i>XW</i> ₂	3.464	0.18	2 W
18035* 1999 <i>NJ</i> ₇	4.293	0.12–0.16	2 W	18543 1997 <i>AE</i>	10.970	0.40	2 W
18042 1999 <i>RF</i> ₂₇	7.2998	0.64	3 W	18545 1997 <i>AO</i> ₂	3.181	0.12	2 W
18046 1999 <i>RN</i> ₁₁₆	36.00	0.13	2–	18550 Maoyisheng	8.810	0.38	2 W
18047* 1999 <i>RP</i> ₁₄₅	11.628	0.25–0.26	2 W	18570 1997 <i>VB</i> ₆	4.011	0.81	2 W
18058 1999 <i>XY</i> ₁₂₉	374.846	0.58	2 W	18574 Jeansimon	11.055	0.07	1 W
18060* 1999 <i>XJ</i> ₁₅₆	15.50	0.48–0.50	2+	18582 1997 <i>XK</i> ₉	114.	0.94	3 TO
18062* 1999 <i>XY</i> ₁₈₇	9.773	0.45–0.57	3 W	18584 1997 <i>YB</i> ₂	26.159	0.08	1 W
18073 2000 <i>CB</i> ₈₂	5.763	0.38	2 W	18587* 1997 <i>YR</i> ₅	3.20	0.27	2 W
18079* Lion–Stoppato	4.09	0.39–0.43	3–	18590* 1997 <i>YO</i> ₁₀	2.95	0.11	1 W
18081 2000 <i>GB</i> ₁₂₆	8.284	0.32	3 W	18598 1998 <i>BH</i> ₈	9.507	0.29	2 W
18082* 2000 <i>GB</i> ₁₃₆	11.94	0.73–0.73	2 W	18599 1998 <i>BK</i> ₈	10.644	0.18	2 W
18096 2000 <i>LM</i> ₁₆	86.	0.18	2–	18602 Lagillespie	5.76	1.31	2+ W
18108 2000 <i>NT</i> ₅	2.910	0.15	3 W	18607 1998 <i>BT</i> ₃₃	20.761	0.08	1 W
18109* 2000 <i>NG</i> ₁₁	4.25	0.77–1.13	3 W	18631 1998 <i>DQ</i> ₃₅	14.155	0.15	2 W
18111 Pinet	25.927	0.10	1 W	18632 1998 <i>DN</i> ₃₇	5.225	0.20	2 W
18118 2000 <i>NB</i> ₂₄	2.524	0.08	1 W	18641* 1998 <i>EG</i> ₁₀	5.2461	0.57–0.97	3 p
18123 Pavan	4.8	0.12	1 W	18645* 1998 <i>EM</i> ₁₉	3.693	0.33–0.36	2 W
18125 Brianwilson	3.188	0.18	2 W	18647 Václavhübner	33.10	0.56	2 W
18126 2000 <i>OU</i> ₃	31.347	0.46	2 W	18669 Lalitpatel	7.560	0.54	2 W
18137 2000 <i>OU</i> ₃₀	16.20	0.20–0.30	3 W	18671 Zacharyrice	3.306	0.16	2 W
18144 2000 <i>OO</i> ₄₈	3.10	0.24–0.30	3 W	18672 Ashleyamini	10.11	0.41	2 W
18164 2000 <i>PA</i> ₂₀	4.068	0.57	2 W	18679 Heatherenae	6.248	0.48	2 W
18169 Amaldi	34.14	0.29	2 W	18682 1998 <i>FH</i> ₁₀₇	11.647	0.68	2 W
18178 2000 <i>QP</i> ₂₈	2.592	0.13	2 W	18692 1998 <i>HJ</i> ₁₄	3.07	0.16	1 W
18180 Irenesun	10.306	0.41	2 W	18699 Quigley	216.487	0.93	2 W
18181 2000 <i>QD</i> ₃₄	5.180	0.32	3 W	18700 1998 <i>HK</i> ₅₄	14.054	0.58	2 W
18186* 2000 <i>QW</i> ₅₀	7.30	0.39–0.57	3 W	18721 1998 <i>HC</i> ₁₄₆		0.56	2 W
18188 2000 <i>QD</i> ₅₅	11.85	0.58	2 W	18724 1998 <i>JV</i> ₁	10.130	0.50	2 W
18194* 2000 <i>QE</i> ₁₀₀	16.624	0.43–0.56	2 W	18739 Larryhu	2.603	0.08	1 W
18195* 2000 <i>QG</i> ₁₁₆	5.25	0.71	3–	18744 1999 <i>AU</i>	21.9	0.76	1 W
18201* 2733 <i>P–L</i>	7.153	0.31–0.33	2 W	18745 San Pedro	3.175	0.48	2 W
18219* 6260 <i>P–L</i>	4.710	0.16–0.19	3–	18758 1999 <i>HD</i> ₂	5.132	0.74	2 W
18228 Hyperenor	32.839	0.20	2 W	18766 Broderick	12.152	0.59	2 W
18232 3322 <i>T–I</i>	10.990	0.25	2 W	18776 Coulter	3.132	0.36	2 W
18242 Peebles	4.249	0.37	2 W	18787 Kathermann	41.82	0.74–1.00	3–
18263 Anchialos	10.39	0.35	2 W	18797 1999 <i>JT</i> ₆₄		0.52	2 W
18278 Drymas	28.087	0.63	2 W	18804 1999 <i>JS</i> ₇₇	9.404	0.09	1 W
18279 4221 <i>T–3</i>	16.658	0.39	2 W	18814 Ivanovsky	6.762	0.66	2 W
18285* Vladplatonov	8.103	0.51–0.81	2 W	18817 1999 <i>LF</i> ₃₂	7.553	0.41	2 W
18307 1981 <i>ER</i> ₁₀	60.792	0.77	2 W	18819 1999 <i>NK</i> ₈	2.453	0.06	1 W
18313 1981 <i>EB</i> ₂₃	3.168	0.26	2 W	18823 Zachozzer	19.661	0.25	2 W
18323* 1983 <i>RZ</i> ₂	3.29	0.55–0.64	2 W	18830 Pothier	27.215	0.10	1 W
18327 1985 <i>CX</i> ₁	9.443	0.09	1 W	18832 1999 <i>NV</i> ₄₂	57.817	0.79	2 W
18335 San Cassiano	3.749	0.09	1 W	18835 1999 <i>NK</i> ₅₆	16.259	0.30	3 W
18338 1989 <i>EP</i> ₂	7.108	0.55	2 W	18841 Hruška		0.1	2 W
18349 Dafydd	13.55	0.66	2 W	18845 Cichocki	85.616	0.41	2 W
18350 1990 <i>QJ</i> ₂	97.787	0.46	2 W	18848 1999 <i>RH</i> ₄₁	27.768	0.13	2 W
18353 1990 <i>QF</i> ₉	18.225	0.36	2 W	18849 1999 <i>RK</i> ₅₅	16.873	0.34	2 W
18368 Flandrau	5.777	0.89–0.90	3 W	18851* Winmesser	27.327	0.34	3–
18382* 1992 <i>EG</i> ₂₂	5.883	0.28–0.31	2 W	18852* 1999 <i>RP</i> ₉₁	9.66	0.66–0.70	2+ W
18392 1992 <i>PT</i> ₄	14.763	0.21	2+	18853* 1999 <i>RO</i> ₉₂	5.599	0.49–0.66	2 W
18398 Bregenz	5.376	0.57	2 W	18861 Eugenishmidt	3.93	0.14	2 W
18406 1993 <i>FT</i> ₁₄	6.597	0.36	2 W	18864 1999 <i>RQ</i> ₁₉₅	19.730	0.22	2 W
18414 1993 <i>OY</i> ₆	52.710	0.68	2 W	18865 1999 <i>RQ</i> ₂₀₄	5.023	0.25	2 W
18415 1993 <i>PW</i> ₅	6.355	0.65	2 W	18874 Raoulbehrend	5.3436	0.47	2+
18418 Ujibe	3.470	0.23	2 W	18881 1999 <i>XL</i> ₁₉₅	2.98	0.20	3 W

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Planet	Period	Variation	Note	Planet	Period	Variation	Note
18890 2000 <i>EV</i> ₂₆	3.8216	0.09–0.11	3 B	19404 1998 <i>FO</i> ₅	10.6	0.80	2
18892 2000 <i>ET</i> ₁₃₇	186.790	0.70	2 W	19408 1998 <i>FM</i> ₁₁	3.036	0.22	2 W
18896* 2000 <i>GN</i> ₁₁₃	7.22	0.54–0.66	2	19409 1998 <i>FA</i> ₁₂	52.447	0.60	2 W
18899 2000 <i>JQ</i> ₂	222.	0.13	2+	19419 Pinkham	2.496	0.15	2 W
18906 2000 <i>OJ</i> ₁₉	77.90	0.80	3– T0	19426 Leal	11.492	0.08	1 W
18922 2000 <i>PU</i> ₁₂	13.715	0.26	2 W	19434* Bahuffman	4.78	0.17–0.23	2 W
18926 2000 <i>PO</i> ₂₆	4.530	0.33	2 W	19443 Yanzhong	3.022	0.25	2 W
18930* Athreya	13.232	0.65–0.79	2 W	19449 1998 <i>FE</i> ₁₂₅	4.351	0.25	2 W
18941 2000 <i>QX</i> ₅₀	9.14	0.35	2 W	19472 1998 <i>HL</i> ₅₂	3.072	0.27	2 W
18957 Mijacobsen	3.789	0.33	2 W	19481 1998 <i>HX</i> ₁₀₁	5.796	0.37	2 W
18958 2000 <i>QL</i> ₁₂₈	4.170	0.59	2 W	19483 1998 <i>HA</i> ₁₁₆	2.6259	0.10–0.11	3
18982 2000 <i>RH</i> ₅	9.098	0.42	2 W	19485 1998 <i>HC</i> ₁₂₂	146.496	0.37	2 W
18985 2000 <i>RR</i> ₂₁	3.09	0.11	2 W	19489 1998 <i>HL</i> ₁₄₉	2.714	0.48	2 W
18990 2000 <i>RW</i> ₃₁	3.524	0.24	2 W	19494 Gerbs	6.150	0.44	2 W
18992 Katharvard	3.103	0.31	2 W	19495 Terentyeva	2.33	0.12	1
19006 2000 <i>RY</i> ₆₅	22.139	0.44	2 W	19504 Vladalekseev	9.462	0.24	2 W
19019* Sunflower	3.320	0.23–0.26	2 W	19506 1998 <i>MN</i> ₄	3.878	0.29	2 W
19020 2000 <i>SC</i> ₆	9.82	0.43	2	19516 1998 <i>QF</i> ₈₀	5.4383	0.32–0.35	3
19022* Penzel	15.890	0.25–0.30	2 W	19521 Chaos		<0.10	
19023* Varela	7.44	0.39	2 W	19533 Garrison	7.259	0.64	2 W
19034* Santorini	247.	0.43	2 T0	19535* Rowanatkinson			
19040 4875 <i>P–L</i>	3.658	0.45	2 W	19537 1999 <i>JL</i> ₈	50.1	0.10	2–
19055 1066 <i>T–2</i>	4.734	0.53	2 W	19538* 1999 <i>JD</i> ₁₂			
19056 1162 <i>T–2</i>	3.007	0.16	2 W	19540 1999 <i>JF</i> ₂₃	3.28	0.34	2 W
19076 5002 <i>T–3</i>	10.090	0.71	2 W	19545 1999 <i>JY</i> ₃₃	6.416	0.39	2 W
19083 1977 <i>DA</i> ₄	3.047	0.25	2 W	19548 1999 <i>JJ</i> ₅₈	76.841	0.10	1 W
19086 1978 <i>VB</i> ₃	6.26	0.70	2 W	19557 1999 <i>JC</i> ₇₉	6.139	0.62	2 W
19094 1979 <i>MR</i> ₆	93.901	0.72	2 W	19574 Davidedwards	37.635	0.29	2 W
19097 1981 <i>EY</i> ₂	37.698	0.74	2 W	19582 Blow	11.553	0.17	2 W
19108 1981 <i>EV</i> ₂₁	3.389	0.29	2 W	19594* 1999 <i>NL</i> ₃₁	11.831	0.26–0.61	2 W
19110 1981 <i>EF</i> ₂₉	7.078	0.77	2 W	19598 Luttrell	131.976	0.09	1 W
19131 1988 <i>CY</i> ₃	2.94	0.51	2 W	19599 Brycemelton	13.215	0.41	2 W
19133 1988 <i>PC</i> ₂	80.870	0.40	2 W	19601 1999 <i>ND</i> ₄₂	8.059	0.21	2 W
19136 Strassmann	10.512	0.92	2 W	19605 1999 <i>NU</i> ₅₂	9.182	0.14	2 W
19141 Poelkapelle	2.150	0.08	1 W	19608* 1999 <i>NC</i> ₅₇	9.194	0.55–0.57	2 W
19145 1989 <i>YC</i>	5.899	0.36	2 W	19609 1999 <i>ND</i> ₅₇	12.632	0.37	2 W
19159 Taenakano	3.903	0.14	2 W	19626* 1999 <i>RJ</i> ₁₆	7.820	0.35–0.37	2 W
19163 1990 <i>WE</i> ₅	3.387	0.28	2 W	19634 1999 <i>RG</i> ₄₅	4.32	0.19	2 W
19164 1991 <i>AU</i> ₁	32.492	0.25	3–	19640 Ethanroth	600.348	0.62	2 W
19174* 1991 <i>NS</i> ₆	7.74	0.85	2+	19644 1999 <i>RD</i> ₁₀₂	5.102	0.70	2 W
19178 Walterbothe		0.82	W	19647 1999 <i>RZ</i> ₁₀₃	6.304	0.45	2 W
19184 1991 <i>TB</i> ₆	4.99	0.45	3–	19648 1999 <i>RK</i> ₁₀₄	9.320	0.73	2 W
19185 Guarneri	2.116	0.08	1 W	19649 1999 <i>RQ</i> ₁₀₄	9.126	0.66	2 W
19204* Joshuaatree	480.	0.1 –0.95	2+ B?	19653 1999 <i>RD</i> ₁₁₉	2.61	0.12	1 W
19208 Starrfield	8.130	0.43	2 W	19659 1999 <i>RB</i> ₁₂₈	3.980	0.45	2 W
19210 1992 <i>YE</i> ₄	6.23	0.17	2 W	19662* Stunzi	5.93	0.57–0.61	3 W
19231 1993 <i>TL</i> ₅	6.657	0.46	2 W	19663 Rykerwatts	3.777	0.65	2 W
19235 van Schurman	7.485	0.28	2 W	19672 1999 <i>RP</i> ₁₅₅	5.470	0.8	3
19237 1994 <i>AP</i>	64.951	0.97	2 W	19682 1999 <i>RW</i> ₁₉₄	2.5353	0.21	2
19239* 1994 <i>AM</i> ₂	9.464	0.11–0.23	2 W	19686 1999 <i>RL</i> ₁₉₇	49.400	0.21	2 W
19244* 1994 <i>CX</i> ₁₂	7.27	0.68	2 W	19689* 1999 <i>RX</i> ₂₀₅			
19246* 1994 <i>EL</i> ₇	4.05	0.44	2 W	19695 Billnye	4.8676	0.30	3
19251 Totziens	18.446	0.10	2	19698* 1999 <i>SR</i> ₄	5.381	0.53–0.59	2 W
19254 1994 <i>VD</i> ₇	7.380	0.31	2 W	19700 Teitelbaum	16.335	0.49	2 W
19255 1994 <i>VK</i> ₈	9.	0.42	2	19711* Johnnalgawesa	54.3	0.25	1 T0
19260 1995 <i>GT</i>	21.919	0.73	2 W	19716 1999 <i>UH</i> ₂₃	10.477	0.35	2 W
19261 1995 <i>MB</i>	4.5911	0.50–0.54	3	19725 1999 <i>WT</i> ₄	56.70	0.22	2–
19275 1995 <i>XF</i> ₁	19.592	0.57	2 W	19732 1999 <i>XF</i> ₁₆₅	12.57	0.19	2
19276 1995 <i>XS</i> ₄	4.764	0.57	2 W	19733 1999 <i>XA</i> ₁₆₆	23.300	0.30	2 W
19278 1995 <i>YN</i>	30.650	0.23	2 W	19734 1999 <i>XE</i> ₁₇₅	8.4	0.09	2–
19283 1996 <i>BJ</i> ₂	6.238	0.50	2 W	19741 Callahan	7.268	0.81	2 W
19288 Egami	2.6590	0.13	N	19750 2000 <i>CM</i> ₆₂	6.462	0.30	2 W
19289* 1996 <i>HY</i> ₁₂	2.85	0.11–0.13	3–	19754 Paclements	3.462	0.60	2 W
19298 Zhongkeda	78.540	0.77	2 W	19757 2000 <i>GK</i> ₁	5.192	0.45	2 W
19300* 1996 <i>SH</i> ₆	17.14	0.24	2+	19763 Klimesh	101.	0.67	2 T?
19302 1996 <i>TD</i>	10.839	0.34	2 W	19764 2000 <i>NF</i> ₅	59.3	0.80	NT0
19303 Chinacyo	2.864	0.31	2 W	19774 2000 <i>OS</i> ₅₁		0.12	N
19308 1996 <i>TO</i> ₆₆	7.92	0.12–0.26	2 A	19779* 2000 <i>QU</i> ₅₃	2.67	0.39	3–
19309 1996 <i>UK</i> ₁	5.21	0.06	2 A	19781 2000 <i>QK</i> ₆₈	5.480	0.22	2 W
19327 1996 <i>XH</i> ₁₉	3.9878	0.57	3–	19793* 2000 <i>RX</i> ₄₂	3.102	0.28–0.38	2+
19332 1996 <i>YQ</i> ₁	>24.	>0.25	2 W	19803 2000 <i>RX</i> ₉₀	2.7	0.17	2
19333 1996 <i>YT</i> ₁	2.83	0.19	2+	19812 2000 <i>SG</i> ₁₁₉	3.182	0.30	2 W
19337 1997 <i>AT</i>	12.041	0.20	2	19848* Yeungchuchiu	3.450	0.63–0.70	3 p
19356 1997 <i>GH</i> ₃	6.714	0.74	3	19852 Jamesalbers	9.163	0.18	2 W
19372 1997 <i>YP</i> ₁₃	4.767	0.61	2 W	19856 2000 <i>UP</i> ₈	3.347	0.42	2 W
19373 1997 <i>YC</i> ₁₄	6.519	0.54	2 W	19878 1030 <i>T–1</i>	7.958	0.50	2 W
19379 Labrecque	8.30	0.06	2–	19898 1177 <i>T–3</i>	2.558	0.42	2 W
19389 1998 <i>DD</i> ₁₄	7.417	0.51	2 W	19902 3420 <i>T–3</i>	8.32	0.44	3–
19391 1998 <i>DR</i> ₁₅	2.365	0.21	2 W	19906 4138 <i>T–3</i>	25.958	0.24	2 W
19402 1998 <i>EG</i> ₁₄	2.825	0.12	3–	19907 4220 <i>T–3</i>	4.327	0.35	2 W

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Planet	Period	Variation	Note	Planet	Period	Variation	Note
19908 4324 <i>T</i> ₃	5.642	0.51	2 W	20421 1998 <i>TG</i> ₃	11.8905	0.16	3
19910 5078 <i>T</i> ₃	8.955	0.32	2 W	20428* 1998 <i>WG</i> ₂₀	14.81	0.75	2 W
19912 Aurapenta	2.340	0.17	2 W	20429 1998 <i>YN</i> ₁	2.7180	0.16	N
19913 Agyptios	40.43	0.15	2+	20446 1999 <i>JB</i> ₈₀	3.199	0.25	3-
19917* 1977 <i>EE</i> ₈	5.219	0.56-0.76	2 W	20452 1999 <i>KG</i> ₄	3.849	0.34	3
19918 1977 <i>PB</i>	7.6897	0.12-0.92	3-	20453 1999 <i>KL</i> ₆	3.911	0.12	2+
19919 Pogorelov	13.511	0.85	2 W	20462 1999 <i>LZ</i> ₃₁	3.480	0.52	2 W
19924 1979 <i>MQ</i> ₆	5.333	0.66	2 W	20465 Vervack	3.140	0.26	2 W
19925 1979 <i>QD</i> ₃	14.747	0.32	2 W	20470* 1999 <i>NZ</i> ₅	3.6637	0.24-0.30	3
19926* 1979 <i>YQ</i>	55.253	0.17-0.25	2 W	20473 1999 <i>NS</i> ₈	21.958	0.23	2 W
19928 1981 <i>DB</i> ₃	3.429	0.18	2 W	20484 Janetsong	4.358	0.34	2 W
19954 Shigeyoshi	65.129	0.75	2 W	20488 Pic-du-Midi	2.812	0.14	2 W
19964 1987 <i>BX</i> ₁	7.173	0.23	2 W	20491 Ericstrege	5.156	0.57	2 W
19966 1987 <i>SL</i> ₃	3.079	0.09	2 W	20503 Adamtazi	21.650	0.69	2 W
19971 1988 <i>RZ</i> ₅	6.182	0.10	1 W	20507* 1999 <i>RU</i> ₁₉	10.283	0.24-0.28	2 W
19977 1989 <i>TQ</i>	10.4306	1.04-1.10	3	20514 1999 <i>RD</i> ₃₄	4.291	0.83	2 W
19979* 1989 <i>VJ</i>	7.568	0.29-0.29	2+	20521 1999 <i>RM</i> ₃₈	8.656	0.17	2 W
19982 Barbaradoore	3.3162	0.28	3	20522 Yogeshwar	9.611	0.30	2 W
19994 Tresini	9.66	0.87	3	20536* Tracarter	4.82	0.24-0.40	3-
20000 Varuna	6.3436	0.41-0.5	3	20537 Sandraderosa	15.626	0.20	2 W
20009* 1991 <i>OY</i>	2.97	0.24-0.26	2 W	20538 1999 <i>RN</i> ₈₄	5.784	0.39	2 W
20011 1991 <i>PD</i> ₁₃	9.350	0.43	2 W	20540 Marhalpern	4.184	0.55	2 W
20012 Ranke	7.576	0.41	2 W	20543 1999 <i>RZ</i> ₉₈	10.506	0.22	2 W
20031* 1992 <i>OO</i>	10.8379	0.38-0.43	3	20545 Karenhowell	28.299	0.20	2 W
20037 Duke	5.428	0.10-0.17	2	20553 Donaldhowk	5.255	0.14	2 W
20038* 1992 <i>UN</i> ₅	6.944	0.38-0.50	3-	20561* 1999 <i>RE</i> ₁₂₀	4.550	0.44-0.61	3-
20048* 1993 <i>FF</i> ₁₉	7.032	0.24-0.34	2 W	20562 1999 <i>RV</i> ₁₂₀	135.4	0.43	2+
20050 1993 <i>FO</i> ₂₁	184.311	0.20	2 W	20570 Molchan	4.132	0.54	2 p
20052 1993 <i>FS</i> ₂₇	6.483	0.42	2 W	20571 Tiamorrison	450.	0.60	2-
20054* 1993 <i>FX</i> ₃₇	10.058	0.17-0.20	2 W	20573* Garynadler	4.02	0.24	1 W
20073* Yumiko	3.49	0.26	3 W	20579 1999 <i>RX</i> ₁₄₉	3.242	0.19	2 W
20077* 1994 <i>CX</i> ₉	2.98	0.12	2+	20580* Marilpeters	3.14	0.38	3 W
20080 1994 <i>EO</i> ₁	13.	0.05	1	20586* Elizkolod	3.23	0.24	3 W
20086 1994 <i>LW</i>			1	20596 1999 <i>RX</i> ₁₈₈	18.386	0.38	2 W
20087 1994 <i>PC</i> ₇	7.275	0.82	2 W	20599 1999 <i>RD</i> ₁₉₆	2.866	0.20	2 W
20095* 1994 <i>PG</i> ₃₅	6.81	0.50	2 W	20601 1999 <i>RD</i> ₁₉₇	3.343	0.18-0.19	2 W
20100 1994 <i>XM</i>	188.389	0.83	2 W	20604 Vrishikpatil	5.947	0.51	2 W
20106* Morton	18.043	0.19-0.20	2 W	20606 Widemann	26.006	0.45	2 W
20116* 1995 <i>VE</i> ₁	29.057	0.79-0.84	2 W	20610 1999 <i>RK</i> ₂₃₅	7.389	0.71	2 W
20124 1995 <i>WJ</i> ₃₆	16.657	0.73	2 W	20614 1999 <i>SN</i> ₃	48.6	0.35	2
20128* 1996 <i>AK</i>	4.790	0.29-0.52	2 W	20623* Davidyoung	19.936	0.34-0.45	2 W
20133 1996 <i>CO</i> ₂	3.354	0.30	2 W	20635 1999 <i>TV</i> ₉₆	5.488	0.37	2 W
20136* Eisenhart	6.508	0.54-0.55	3	20636 1999 <i>TC</i> ₉₇	29.701	0.44	2 W
20137* 1996 <i>PX</i> ₈	11.16	0.89	2-	20639* Michellouie	3.506	0.22-0.27	2 W
20150 1996 <i>TJ</i> ₆	6.611	0.76	2 W	20660 1999 <i>UF</i>	13.056	0.40	2 W
20162 1996 <i>UD</i>	4.68	0.17	1	20665 1999 <i>UQ</i> ₈	9.337	0.56	2 W
20163* 1996 <i>UG</i>	5.08	0.14	2+	20676 1999 <i>VA</i> ₇	5.605	0.34	2 W
20179 1996 <i>XX</i> ₃₁	7.594	0.60	2 W	20681 1999 <i>VH</i> ₁₀	8.974	0.27	2 W
20185 1997 <i>AC</i> ₇	3.179	0.29	2 W	20686 Thottumkara	15.182	0.53	2 W
20186* 1997 <i>AD</i> ₈	4.161	0.19-0.32	2 W	20688* 1999 <i>VR</i> ₆₂	4.657	0.36-0.37	2 W
20197 Enriques	48.073	0.08	1 W	20690* Crivello	4.68	0.22	2 W
20202 1997 <i>EC</i> ₂₅	10.105	0.44	2 W	20691 1999 <i>VY</i> ₇₂	2.6990	0.11-0.18	3
20210* 1997 <i>GQ</i> ₇	10.326	0.21-0.35	3	20694 1999 <i>VT</i> ₈₂	3.322	0.36	2 W
20231* 1997 <i>YK</i>	178.	0.70-0.70	2 T?	20699 1999 <i>VJ</i> ₁₄₄	2.80	0.02	1
20236 1998 <i>BZ</i> ₇	10.182	0.17	N	20703 1999 <i>VC</i> ₂₀₃	6.020	0.46	2 W
20246 Frappa	9.304	0.49	2 W	20709 1999 <i>XM</i> ₈	6.743	0.36	2 W
20255 1998 <i>FX</i> ₂	6.804	0.16-0.22	N	20711 1999 <i>XF</i> ₁₂	22.872	0.42	2 W
20261 1998 <i>FM</i> ₁₂	4.55	0.17	2 W	20713 1999 <i>XA</i> ₃₂	3.548	0.25	2 W
20279 Harel	5.380	0.40	2 W	20714 1999 <i>XS</i> ₃₆	4.22	0.19	2 W
20296 Shayestorm	7.041	0.53	2 W	20724 1999 <i>XO</i> ₁₁₆	9.874	0.55	2 W
20300* Arjunsuri	2.62	0.12	3-	20725 1999 <i>XP</i> ₁₂₀	S 3.60129		p
20308 1998 <i>FP</i> ₁₀₉	6.863	0.73	2 W	20729 1999 <i>XS</i> ₁₄₃	5.72	0.13-0.33	2
20310 1998 <i>FD</i> ₁₁₇	5.488	0.07	1 W	20730 Jorgecarvano	4.537	0.30	2 W
20312 Danahy	4.569	0.22	2 W	20733 1999 <i>XE</i> ₁₆₈	3.871	0.35	2 W
20322 1998 <i>HZ</i> ₂₀	35.412	0.35	2 W	20735 1999 <i>XU</i> ₁₆₉	7.855	0.45	2 W
20325 Julianoey	3.24474	0.13	NB	20740 Sémary	7.970	0.87	2 W
20327* 1998 <i>HQ</i> ₃₉	4.388	0.29-0.37	2 W	20744 2000 <i>AO</i> ₁₅₁	28.64	0.29	2-
20328 1998 <i>HS</i> ₄₂	3.412	0.32	2 W	20747 2000 <i>AM</i> ₁₈₆	5.422	0.13	2 W
20329 Manfro	8.80724		p	20749 2000 <i>AD</i> ₁₉₉	>12.	>0.3	1 P
20333 Johannhuth	4.168	0.12	2 W	20762 2000 <i>EE</i> ₃₆	8.891	0.46	3-
20337 Naeve	4.201	0.56	2 W	20774 2000 <i>RP</i> ₃	3.789	0.17	2 W
20349 1998 <i>HU</i> ₁₂₃	5.246	0.39	2 W	20788 2000 <i>SB</i> ₂₉	13.343	0.45	2 W
20350 1998 <i>HV</i> ₁₂₅	90.234	0.61	2 W	20790 2000 <i>SE</i> ₄₅	2.792	0.04	N
20371 Ekladyous	184.408	0.54	2 W	20794 Ryanolson	2.645	0.04	1 W
20378 1998 <i>KZ</i> ₄₆	5.14	0.32	3-	20796 Philipmunoz	272.799	0.46	2 W
20392 Mikeshepard	29.2	0.75	2	20805 2000 <i>SC</i> ₂₂₀	18.634	0.07	1 W
20394 Fatou	212.503	0.62	2 W	20809 Eshinjolly	4.304	0.44	2 W
20395 1998 <i>MY</i> ₂₉	8.201	0.17	2 W	20812* Shannonnabb	4.40	0.31	3-
20413 1998 <i>QY</i> ₉₁	2.221	0.20	2 W	20813 Aakashshah	9.821	0.21	2 W
20419* 1998 <i>SE</i> ₁₁₇	5.500	0.31-0.79	2 W	20815* 2000 <i>SZ</i> ₃₁₈	11.020	0.17-0.18	2 W

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Planet	Period	Variation	Note	Planet	Period	Variation	Note
20826* 2000 <i>UV</i> ₁₃	5.313	0.31	3-	21389 Pshenichka	12.476	0.82	2 W
20838 2000 <i>UY</i> ₅₃	9.486	0.45	2 W	21395 Albertofilho	7.178	0.60	2 W
20842 2000 <i>UG</i> ₇₅	3.664	0.43	2 W	21397 Leontovich	5.836	0.64	2 W
20855* Arifawan	7.80	0.53	2 W	21400 Ahdout	4.170	0.35	2 W
20861 Lesliebeh	3.45	0.17	2 W	21402 Shanhuang	3.382	0.22	2 W
20862 Jenngoedhart	479.321	1.08	2 W	21406 Jimyang	9.185	0.15	2 W
20873 Evanfrank	4.106	0.36	2 W	21411 Abifraeman	S 11.02020	0.39-0.43	3 p Ns
20875 2000 <i>VU</i> ₄₉	136.697	0.65	2 W	21415* Nicobrenner	3.37	0.73	2 W
20885* 2000 <i>WD</i> ₂	3.07	0.16	2 W	21432 Polingloh	393.044	0.05	2 W
20887 Ngwaikin	5.723	0.18	2 W	21436 Chaoyichi	2.87	0.76	2 W
20889 2000 <i>WB</i> ₁₅	5.864	0.35	2 W	21485 Ash	12.260	1.0	2-
20891 2000 <i>WN</i> ₂₈	20.417	0.28	2 W	21486 1998 <i>HA</i> ₁₄₈	12.3	0.71	2 W
20898 Fountainhills	12.84	0.20	3	21489 1998 <i>JU</i>	7.124	0.27	2 W
20899 2000 <i>XB</i> ₃		>0.04		21496 Lijianyang	4.542	0.10	1 W
20900 2000 <i>XW</i> ₄	203.774	0.21	2 W	21501 Acevedo	6.569	0.25	2 W
20902 Kylebeighle	5.430	0.39	2 W	21504 Caseyfreeman	44.568	0.24	2 W
20906* 2727 <i>P-L</i>	11.57	0.68	2	21521 Hippalgaonkar	3.226	0.49-0.53	2 W
20912* 4129 <i>P-L</i>	4.959	0.04	2	21525* 1998 <i>MP</i> ₂₃	9.213	0.33	2 W
20932 2258 <i>T-1</i>	4.3245	0.09-0.17	3 B?	21528 Chrisfaust	3.918	0.28	2 W
20936 Nemrut Dagı	3.2754	0.05-0.15	3	21530 Despiu	3.010	0.56	2 W
20942* 2092 <i>T-2</i>	2.345	0.12-0.18	2 W	21540 Itthipanyanan	15.289	0.32	2 W
20943 2115 <i>T-2</i>	2.591	0.22	2 W	21550 Laviolette	13.61	0.51	2 W
20953 1068 <i>T-3</i>	16.462	0.09	1 W	21554 Leechaohsi	6.321	0.12	2 W
20979 1981 <i>EO</i> ₁₃	10.892	0.41	2 W	21556 Christineli	12.370	0.52	2 W
20995 1985 <i>VY</i>	10.474	0.49	2 W	21557 Daniellitt	4.233	0.12	3
20996* 1986 <i>PB</i>	43.6	0.38-0.4	2+	21558 Alisonliu	4.866	0.18	1+
21002 1987 <i>QU</i> ₇	121.586	0.41	2 W	21565* 1998 <i>QZ</i> ₁₀₂	8.73	0.25	2 W
21003 1987 <i>YV</i> ₁	9.278	0.51	2 W	21566 1998 <i>QM</i> ₁₀₃	3.084	0.28	2 W
21008 1988 <i>PE</i>	2.807	0.14	2 W	21580 Portalatin	3.627	0.99	2+
21018* 1988 <i>VV</i> ₁	5.172	0.30-0.37	2 W	21593* 1998 <i>VL</i> ₂₇	10.747	0.26	2+
21019 1988 <i>VC</i> ₂	4.031	0.68	2 W	21594 1998 <i>VP</i> ₃₁	5.5865	0.49	2+
21022 lke	7.550	0.40	3	21599* 1998 <i>WA</i> ₁₅	12.651	0.30	2+
21023* 1989 <i>DK</i>	7.598	0.17-0.29	3	21601 1998 <i>XO</i> ₈₉	12.65	0.65	2 W
21027 1989 <i>SR</i> ₅	3.527	0.27	2 W	21605 Reynoso	5.172	0.60	3
21028* 1989 <i>TO</i>	3.6644	0.12-0.46	3 p	21607 Robel	12.129	>0.5	2 T0
21033 Akahirakiyozo	17.291	0.07	1 W	21615 Guardamano	2.964	0.14	2 W
21041 1990 <i>QO</i> ₁	5.077	0.75	2 W	21619 Johnshopkins	5.256	0.23	2 W
21047 Hodierna		1.1	1	21625 Seira	3.084	0.24	2 W
21056* 1991 <i>CA</i> ₁	5.60	0.10-0.26	3-	21632 Suwanasri	8.629	0.08	1 W
21067 1991 <i>PY</i> ₁	2.058	0.10	1 W	21643 Kornev	3.654	0.75-0.9	3
21086 1992 <i>AO</i> ₁	19.025	0.33	2 W	21652 Vasishtha	16.29	>0.02	1
21088 Chelyabinsk	22.49	>0.13	3	21663 Banat	9.6	0.73	2 W
21101 1992 <i>OJ</i> ₁	7.891	0.84	2 W	21666 1999 <i>RW</i> ₁	7.493	0.68-0.80	3
21103* 1992 <i>OB</i> ₃				21688 1999 <i>RK</i> ₃₇	5.6960	0.52-0.60	2 W
21104* Sveshnikov	2.840	0.23-0.26	3-	21705* Subinmin	3.46	0.11	2 W
21107 1992 <i>PZ</i> ₄	3.289	0.13	2-	21707* Johnmoore	2.58	0.49	2 W
21111 1992 <i>RP</i> ₃	3.285	0.14	2 W	21714 Geofffreywoo	3.162	0.14	2 N
21114 1992 <i>RS</i> ₅	3.804	0.39	2 W	21720 Pilishvili	4.	0.47	2 W
21119* 1992 <i>UJ</i>	12.886	0.70-0.77	2 W	21723 Yinyinwu	297.889	0.12	2 W
21126* Katsuyoshi	5.8397	0.24	3	21745 Shadfan	2.77	0.54	2 W
21146 1993 <i>FD</i> ₆₇	2.53	0.32	2 W	21748 Srinivasan	33.040	0.37	2 W
21149 Kenmittchell	7.22	0.14	2 W	21770 Wangyiran	7.862	0.34	2 W
21166 1993 <i>XH</i>	11.764	0.49	2 W	21775 Tsiganis	26.139	0.88	2 W
21168* 1994 <i>AC</i> ₈	6.00	0.18-0.24	2 W	21790 1999 <i>SN</i> ₇	14.943	0.11	2 W
21171 1994 <i>CG</i> ₁	2.668	0.47	2 W	21792 1999 <i>ST</i> ₇	15.248	0.68	2 W
21181 1994 <i>EB</i> ₂	33.8	0.35	2 W	21795 Masi	13.862	0.40	2 W
21206 1994 <i>PT</i> ₂₈	203.833	0.85	2 W	21805 1999 <i>TQ</i> ₉	309.294		2 N
21207* 1994 <i>PH</i> ₂₉	>120.	>0.5	HNW	21816 1999 <i>TE</i> ₃₁	>20.		HNW
21212 1994 <i>PG</i> ₃₉	4.36	0.37	2 W	21826* Youjiazhong		0.49	2 W
21213* 1994 <i>RL</i> ₇			HNW	21842 1999 <i>TH</i> ₁₀₂	9.458	0.26	2 W
21217 1994 <i>VM</i> ₁	11.791	0.30	2 W	21848 1999 <i>TO</i> ₁₁₆	10.035	0.61	2 W
21220 1994 <i>WE</i> ₄	4.321	0.67	2 W	21873 Jindřichůvhrdec	50.587	0.18	2 W
21222 1995 <i>BT</i>	4.020	0.13	2 W	21900 Orus	13.45	0.35	2
21229 Sušil	6.11	0.58	2 W	21910 1999 <i>VT</i> ₂₃	9.4	0.35	2 W
21261 1996 <i>FF</i>	3.260	0.31	3	21928 Prabakaran	12.616	0.06	1 W
21272 1996 <i>SA</i> ₁	2.801	0.17	2 W	21946 1999 <i>VD</i> ₁₃₈	2.141	0.41	2 W
21275* Tosiyasu	6.971	0.30-0.33	2 W	21954 1999 <i>VU</i> ₁₇₈	115.666	0.44	2 W
21302 Shirakamisanchi	3.884	0.30	2 W	21955 1999 <i>VW</i> ₁₇₈	5.716	0.17	2 N
21310 1996 <i>XM</i> ₅	>12.	0.5	1+	21976 1999 <i>XV</i> ₂		0.09	1 W
21321 1997 <i>AN</i> ₂	13.92	0.11	2 A	21982 1999 <i>XL</i> ₈	2.059	0.68	2 W
21322 1997 <i>AV</i> ₂	7.689	0.69	2 W	21993 1999 <i>XH</i> ₂₆	5.830	0.36-0.45	2 W
21335 1997 <i>BO</i> ₃	>6.	>0.35	2 W	21996 1999 <i>XP</i> ₃₁	6.872	0.16	1+
21338 1997 <i>CZ</i>	16.838	0.15	2 W	22001* 1999 <i>XY</i> ₄₁	9.64	0.20	2 DAW
21341 1997 <i>CV</i> ₁₉	3.502	0.56	2 W	22013 1999 <i>XO</i> ₈₉	6.5		
21358* Mijerbarany			HNW	22018 1999 <i>XK</i> ₁₀₅	S 17.0575	0.20-0.67	1 p Ns
21361* Carsonmark	20.22	0.40	1 DW	22034* 1999 <i>XH</i> ₁₆₈	3.35	0.50	2 W
21368 Shiodayama	9.233	0.31	2 W	22038 Margashain	4.721	0.29-0.42	2 W
21369 Gertfinger	100.925	0.09	1 W	22044* 1999 <i>XS</i> ₂₀₆	5.265	0.98	2+
21374 1997 <i>WS</i> ₂₂	3.405	0.07-0.17	2	22056* 2000 <i>AU</i> ₃₁	358.		HW
21384* 1998 <i>EB</i> ₁₀	3.22	0.27	2-				

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Planet				Planet			
Planet	Period	Variation	Note	Planet	Period	Variation	Note
22062 2000 AL ₉₉	10.581	0.48	2 W	22685 Dominguez	17.482	0.23	2 W
22064 Angelalewis	5.156	0.26	2 W	22696 1998 QT ₁₀₅	7.8	0.26	2
22070 2000 AN ₁₀₆		1.0	1	22712 1998 RF ₇₈	177.121	0.58	2 W
22080 Emilevasseur	3.487	0.12	2 W	22717 Romeuf	10.94	0.54	N
22081 2000 AA ₁₆₅	3.372	0.19	2 W	22722 Timothycooper	10.934	0.50	3-
22083 2000 AN ₁₆₅	10.062	0.68	2 W	22739 Sikhote-Alin	20.750	0.51	2 W
22087 2000 AZ ₁₇₅	2.318	0.29	2 W	22742 1998 TX ₅	6.62	0.21	2 W
22092 2000 AQ ₁₉₉	18.854	0.35	2 W	22753 1998 WT	10.24	0.11	2 A
22096 2000 AF ₂₂₉	29.947	0.17	2 W	22764 1999 AX ₃	76.886	0.80	2 W
22099 2000 EX ₁₀₆	6.334	0.40-0.41	3	22766 1999 AE ₇	3.421	0.45	2 W
22100 2000 GV ₉₃	135.729	0.27	2 W	22769 Aurelianora	12.172	0.54	2 W
22112 Staceyraw	38.610	0.60	2 W	22771 1999 CU ₃	3.7820	0.12-1.25	3
22121 2000 SM ₁₀₇	537.544	0.05	1 W	22776 Matossian	3.407	0.26	3-
22124* 2000 ST ₁₈₃	4.76	0.92	1 DAW	22791 Twarog	19.697	0.08	1 W
22131* 2000 UK ₄	22.86	0.42	1+ W	22802* Sigiya	4.29	0.39	2 W
22135* 2000 UA ₁₀₀	393.	0.25	2-	22805 1999 RR ₂	5.334	0.30	2 W
22148 Francislee	8.326	0.50	2 W	22812 Ricker	129.207	0.58	2 W
22149 2000 WD ₄₉	7.84	0.20	2	22823 1999 RN ₃₈	4.863	0.07	1 W
22161 Santagata	8.541	0.38	2 W	22844* 1999 RU ₁₁₁	5.763	0.38-0.46	2 W
22165 Kathydouglas	78.114	0.43	2 W	22862 Janinedavis	13.374	0.53	2 W
22166 2000 WX ₁₅₄	800.	0.46	2 T0	22872 Williamweber	4.03	0.42	3-
22171 Choi	72.498	0.58	2 W	22895 1999 TV ₅	7.537	0.64	2 W
22176 2000 XG ₃₆	4.794	0.48	2 W	22899 Alconrad	5.021	0.14-0.19	2 BW
22180* 2000 YZ	19.39	0.23-0.50	2+	22904 1999 TL ₁₉		0.51	W
22181* 2000 YA ₆	5.673	0.60-0.90	2 W	22905 Liciniotoso	389.646	0.42	2 W
22191* Achúcarro	6.701	0.65-0.73	2 W	22908 Bayefsky-Anand	16.375	0.57	2 W
22195 Nevadodelruiz	14.56	0.19	2 A	22917 1999 TA ₇₇	25.806	0.38	2 W
22206 6735 P-L	4.601	0.28	2 W	22932* Orenbrecher			HNW
22225 4091 T-2	4.061	0.38	2 W	22941 1999 TG ₁₉₄	20.039	0.31	2 W
22229 5415 T-2	14.520	0.57	2 W	22945 Schikowski	6.824	0.91	2 W
22231 2239 T-3	3.417	0.17	2 W	22949* 1999 TH ₂₃₈	6.644	0.39-0.41	2 W
22236 3535 T-3	3.003	0.33	2 W	22960 1999 UE ₄	5.892	0.06	1 W
22258 1979 MB ₃	12.260	0.61	2 W	22965 1999 UX ₄₀	7.637	0.23	2 W
22275* Barentsen	40.424	0.52-0.67	3	22973 1999 VW ₁₆	97.832	0.72	2 W
22295 1989 SZ ₉	3.80	0.04	2	22977 1999 VF ₂₄	4.532	0.13	3-
22298 1990 EJ	2.98554		p Ns	22979 1999 VG ₂₅	2.71	0.12	1+
22305 1990 SD ₂	2.751	0.22	2 W	22988 Jimmyhom	24.90	0.2	1+
22319* 1991 PX ₆	17.698	0.2 -0.50	2 W	22998 Waltmyer	4.944	0.43	2 W
22321 1991 RP	10.414	0.1	2	23002* Jilhirsch	6.62	0.52	2 W
22324 1991 RQ ₉	3.734	0.72	2 W	23004 1999 VH ₁₁₄	7.147	0.78	2 W
22338* Janemojo	3.107	0.1 -0.11	2	23007 1999 VC ₁₄₅	3.703	0.17	2 W
22339 1992 OL ₃	8.350	0.54	2 W	23021 1999 WR ₃	3.50	0.16	2 W
22343 1992 RM ₅	6.047	0.65	2 W	23025 1999 WR ₉	19.335	0.59	2 W
22357 1992 YJ	103.	0.54	2 T0	23026 1999 WV ₉	>8.	>0.05	
22411 1995 TR	5.262	0.23	2 W	23031* 1999 XX ₇	3.075	0.43-0.52	3
22412 1995 UQ ₄	4.487	0.25	3-	23049* 1999 XT ₃₀	4.32	0.49-0.52	2 W
22418 1995 WM ₄	3.22	0.28	1+ W	23056 1999 XL ₄₄	6.647	0.42	2 W
22419 1995 WP ₅	2.553	0.18	2 W	23058 1999 XP ₄₅	13.701	0.54	2 W
22424 1995 YS ₂₁	6.823	1.01	2 W	23061 Blueglass	174.570	0.51	2 W
22425 1996 AZ	8.386	0.40	2 W	23073 1999 XT ₇₅	2.744	0.09	1 W
22437 1996 GR ₂₀	4.683	0.39	2 W	23092 1999 XT ₁₃₆	3.078	0.47	3-
22442* Blaha	4.38	0.71-0.73	2 W	23097 1999 XF ₁₅₇	13.22	0.44	2 W
22451 Tymohtycoons	2.715	0.15	2 W	23112 2000 AG ₃	long	>0.1	
22463 1997 AT ₁₃	4.496	0.91	2 W	23123 2000 AU ₅₇	467.257	0.57	2 W
22481 Zachlynn	10.244	0.52	2 W	23134 2000 AU ₁₄₂	4.189	0.56	2 W
22486 1997 GZ ₂₂	5.157	0.59	2 W	23135* 2000 AN ₁₄₆	8.69	0.27-0.27	3-
22491 1997 GX ₃₂	27.012	0.42	2 W	23143 2000 AZ ₁₇₇	12.45	0.14	2
22497 Immanuelfuchs	5.952	0.26	2 W	23146 2000 AM ₂₀₀	4.130	0.47	2 W
22501 1997 PR ₃	4.21	0.45	2 W	23162* Alexcrook	3.89	0.13	3 W
22513* 1998 BX ₃₂			HNW	23163 2000 FG ₄₉	5.82	0.57	2 W
22515 1998 DJ ₁₅	6.558	0.96	2 W	23164 Badger	9.351	0.50	2 W
22543* Ranjan			HNW	23167* 2000 GL ₁₂₄	38.438	0.32-0.36	2 W
22550* Jonsellon	2.80	0.21-0.25	2+	23168* Laurieffetch			HNW
22558 Mladen	3.452	0.35	2 W	23177 2000 JD ₅₈	4.3819	0.59	3
22577 Alfuccio	4.370	0.36	2 W	23183 2000 OY ₂₁	6.981	0.73-0.76	3
22586 Shellyhynes	23.600	0.10	1 W	23184 2000 OD ₃₆	29.09	1.20	2 W
22600 1998 HH ₁₂₃	3.23	0.15	2	23187* 2000 PN ₉	2.5325	0.10-0.15	3
22601 1998 HD ₁₂₄	11.8785	0.76	3	23190* Klages-Mundt	7.274	0.20-0.25	2 W
22603* Davidoconnor	3.11	0.13	2 W	23191 Sujaytyle	3.112	0.24	2 W
22609 1998 JT ₁	98.424	0.09	1 W	23193 2000 QK ₁₈₁	8.983	1.04	3
22619* Ajscheetz	6.15	0.40	2 W	23194 2000 RF ₁	4.842	0.12	2 W
22632* DiNovis	4.529	0.68-0.95	2 W	23200* 2000 SH ₃	16.22	0.42-0.46	3
22637 1998 MR ₂₂	3.136	0.15	2 W	23214 Patrickchen	7.400	0.26	2 W
22645 Rotblat	6.094	0.22	2 W	23219 2000 VW ₂₃	10.813	0.53	2 W
22656 Aaronburrows	36.859	0.22	2 W	23228 Nandinisarma	67.582	0.76	2 W
22657* 1998 QN ₈	3.166	0.17-0.18	2 W	23233 2000 WM ₇₂	3.732	0.35	3
22661 1998 QP ₁₇	19.111	0.53	2 W	23236 2000 WX ₁₀₀	3.854	0.13	2 W
22662* 1998 QL ₁₈	16.460	0.45-0.56	2 W	23245 Fujimura	4.156	0.54	2 W
22666 Josephchurch	5.218	0.22	2 W	23247 2000 WG ₁₇₄	4.130	0.26	2 W
22678 1998 QB ₄₂	21.801	0.96	2 W	23255 2000 YD ₁₇	13.56	0.33	2+

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Planet	Period	Variation	Note	Planet	Period	Variation	Note
23260 2000 <i>YA</i> ₃₄	8.8	0.04	1	23860 1998 <i>RU</i> ₅₆	6.725	0.61	2 W
23268 2000 <i>YD</i> ₅₅	3.368	0.12	2 W	23870 1998 <i>RW</i> ₇₅	5.570	0.25	2 W
23276 2000 <i>YT</i> ₁₀₁	3.661	0.22	2	23873 1998 <i>RL</i> ₇₆	13.856	1.23	2 p s
23278 2000 <i>YD</i> ₁₀₅	8.502	0.59	2 W	23874 1998 <i>RB</i> ₇₇	8.14	0.05	2 W
23293 2000 <i>YS</i> ₁₃₁	50.88	0.18	1	23875* Strube	4.245	0.29–0.35	2 W
23301 2001 <i>AO</i> ₁₆	14.580	0.13	2 W	23876 1998 <i>RZ</i> ₇₉	5.318	0.19	2 W
23313* Supokaivanich			2 HNW	23892 1998 <i>SH</i> ₄₉	3.720	0.10	1 W
23315 Navinbrian	6.381	0.58	2 W	23900 Urakawa	7.93	0.43	2 W
23327 Luchernandez	4.933	0.50	2+	23902 1998 <i>SN</i> ₆₄	3.636	0.73	2 W
23336 2579 <i>P-L</i>	2.56	0.10	2+	23924* Premt	5.194	0.26–0.36	2 W
23339 3025 <i>P-L</i>	4.85	0.18	2 W	23939* 1998 <i>TV</i> ₃₃	12.868	0.55	2+ HW
23374 2207 <i>T-2</i>	5.42	0.68	2 W	23947* 1998 <i>UH</i> ₁₆	15.335	0.07	1 HW
23384 5163 <i>T-2</i>	11.523	0.64	2 W	23948 1998 <i>UQ</i> ₁₈	5.675	0.47	2 W
23405* Nisyros	11.037	0.76	2 W	23958* 1998 <i>VD</i> ₃₀	1143.	0.36	2- HAW
23415 1979 <i>MQ</i> ₃	10.796	0.64	2 W	23959 1998 <i>VZ</i> ₃₆	5.665	0.36	2 W
23416 1979 <i>MU</i> ₄	7.021	0.70	2 W	23961 1998 <i>VL</i> ₃₉	18.736	0.31	2 W
23422 1981 <i>DF</i> ₁	4.931	0.42	2 W	23968 1998 <i>XA</i> ₁₃	11.140	0.33	2 W
23429 1981 <i>EO</i> ₃₅	6.15	0.12	1	23971* 1998 <i>YU</i> ₉	6.8949	0.79	3
23436 Alekfursenko	3.628	0.42	2 W	23974* 1999 <i>CK</i> ₁₂	5.485	0.67–0.80	3
23438* 1984 <i>SZ</i> ₅	8.342	0.44–0.47	2 W	23979 1999 <i>JL</i> ₈₂	2.49	0.17	2-
23446* 1987 <i>SJ</i> ₂	2.849	0.30–0.57	2 W	23993 1999 <i>RS</i> ₁₃	4.097	0.41	2 W
23476 1990 <i>VE</i> ₄	2.815	0.08	2 W	23998 1999 <i>RP</i> ₂₉	13.526	0.88	3-
23478 1991 <i>BZ</i>	133.406	0.36	2 W	24004 1999 <i>RQ</i> ₅₇	5.68	0.55	2+
23480 1991 <i>EL</i>	4.07	0.35	N	24005 Eddiozawa	3.278	0.10	1 W
23482 1991 <i>LV</i>	3.357	0.17–0.34	2	24007* 1999 <i>RE</i> ₉₁	12.63	0.41	2- W
23494 1991 <i>SE</i> ₂	4.343	0.27	2 W	24008 1999 <i>RF</i> ₉₄	3.567	0.16	2 W
23500 1992 <i>AT</i> ₂	3.189	0.42	2 W	24018 1999 <i>RU</i> ₁₃₄	6.151	0.32	2 W
23501* 1992 <i>CK</i> ₁	132.695	0.65–0.82	2 W	24025* Kimwallin			HNW
23507 1992 <i>EQ</i> ₁₃	3.11	0.18	2 W	24026 Pusateri	4.368	0.51	2 W
23521 1992 <i>US</i> ₁	14.464	0.66	2 W	24029 1999 <i>RT</i> ₁₉₈	5.492	0.65	3
23533 1993 <i>PU</i> ₅	4.230	0.24	2 W	24030 1999 <i>RT</i> ₂₀₆	3.205	0.46	2 W
23534* 1993 <i>QP</i> ₃	12.97	0.18	2- W	24036 1999 <i>SP</i> ₄	4.411	0.44	2 W
23543 1993 <i>UK</i>	6.034	0.22	2 W	24038 1999 <i>SL</i> ₈	2.880	0.09	1 W
23547 Tognelli	5.798	0.66	2 W	24039* 1999 <i>SS</i> ₈	8.586	0.66–0.73	3
23552 1994 <i>NB</i>	3.629	0.36	2 W	24053 Shinichiro	6.211	0.44	2 W
23574 1995 <i>BX</i>	4.555	0.47	2 W	24054* 1999 <i>TZ</i> ₃₇	12.116	0.61–0.63	2 W
23578 Baedeker	8.17154		2 p Ns	24061 1999 <i>TS</i> ₁₀₀	6.886	0.68	2 W
23581* 1995 <i>OE</i> ₅	3.10	0.18	2 W	24077 1999 <i>TD</i> ₂₃₃	30.86	1.61	2 T
23587* Abukumado	3.054	0.13	3	24092 1999 <i>UU</i> ₁₃	2.879	0.08	1 W
23588 1995 <i>UX</i> ₃	7.197	0.15	2 W	24094 1999 <i>UN</i> ₆₀	2.5768	0.10	3
23597 1995 <i>WY</i> ₄	4.994	0.52	2 W	24097 1999 <i>VB</i> ₆	51.652	0.64	2 W
23598 1995 <i>WL</i> ₁₃	10.577	0.54	2 W	24099 1999 <i>VF</i> ₈	2.540	0.49	2 W
23615 1996 <i>FK</i> ₁₂	368.	0.23	2 B?	24101 Cassini	3.986	0.12	3
23630* 1996 <i>YA</i> ₃	7.06	0.22	2 W	24105 Broughton	15.944	0.34	2 W
23654* 1997 <i>CC</i> ₂₆	6.14	0.49	1 DW	24107 1999 <i>VS</i> ₁₉	249.046	0.31	2 W
23657 1997 <i>CB</i> ₂₈	4.073	0.56	2 W	24114 1999 <i>VV</i> ₂₃	8.244	0.26	3
23668 Eunbekim	10.726	0.57	2 W	24115 1999 <i>VH</i> ₂₄	2.635	0.18	2 W
23676 1997 <i>GR</i> ₂₅	5.010	0.62	2 W	24116* 1999 <i>VK</i> ₂₄	5.25	0.48	2+ W
23678 1997 <i>GW</i> ₃₂	8.01	1.13	2 W	24117 1999 <i>VQ</i> ₂₆	3.506	0.38	2 W
23681* Prabhu	36.5	0.45	2	24120* Jeremyblum	9.14	0.94	3- W
23690 1997 <i>JD</i> ₁₄	2.861	0.30	2 W	24131 Jonathuggins	5.789	0.63	2 W
23692 1997 <i>KA</i>	10.430	0.30	2+ W	24143 1999 <i>VY</i> ₁₂₄	3.436	0.19	2 W
23701 Liqibin	4.584	0.10	1 W	24147 Stefanmuller	5.938	0.69	2 W
23705 1997 <i>SQ</i> ₁₄	82.636	1.15	2 W	24176 1999 <i>XP</i> ₆	22.716	0.22	2 W
23706* 1997 <i>SY</i> ₃₂	7.04	0.11	2 A	24178 1999 <i>XL</i> ₇	9.196	0.44	2 W
23707 Chambliss	5.06632		2 p Ns	24191 Qiaochuyuan	42.782	0.53	2 W
23708 1997 <i>TR</i> ₁₈	3.978	0.37	2 W	24192* 1999 <i>XM</i> ₃₀	19.9	0.46	2+ HW
23709* 1997 <i>TA</i> ₂₈	13.08	0.49	2+	24201 Davidkeith	12.774	0.14	2 W
23712 Willpatrick	3.902	0.40	3	24207 1999 <i>XJ</i> ₄₉	3.510	0.15	2 W
23715 1998 <i>FK</i> ₂	7.434	0.27–0.36	3	24215 Jongastel	11.036	0.10	1 W
23718 Horgos	3.57	0.21	2 W	24222 1999 <i>XW</i> ₇₄	3.7824	0.30	3
23721 1998 <i>HQ</i> ₂₇	5.3036	0.16–0.17	3	24242 1999 <i>XY</i> ₁₀₀	49.94	>0.6	2 T+
23732 Choiseungjae	8.631	0.68	2 W	24253 1999 <i>XX</i> ₁₂₀	2.583	0.10	2 W
23738 1998 <i>JZ</i> ₁	6.295	0.35	2 W	24260 Kriván	3.318	0.42	3
23740 1998 <i>KP</i> ₃	9.564	0.08	1 W	24275 1999 <i>XW</i> ₁₆₇	57.98	0.32	2-
23750 Stepaciechan	10.278	0.76	2 W	24290* 1999 <i>XS</i> ₁₉₀	5.36	0.49–0.50	2 W
23751 Davidprice	21.660	0.08	1 W	24301 Gural	7.656	0.53	2 W
23757 Jonmunoz		0.51	W	24304 Lynnrice	6.139	0.13	2 W
23758* Guyuzhou	3.12	0.15	2 W	24313* 1999 <i>YR</i> ₂₇		0.23	
23766 1998 <i>MZ</i> ₂₃	2.721	0.18	3	24315* 2000 <i>AV</i> ₄	10.55	0.46	2 W
23795 1998 <i>QW</i> ₃₂	9.473	0.59	2 W	24318* Vivianlee	2.910	0.22–0.26	2 W
23796 1998 <i>QK</i> ₃₄	4.080	0.14	2 W	24344* Brianbarnett	6.646	0.42–0.45	2 W
23804 Haber	532.240	0.63	2 W	24357* 2000 <i>AC</i> ₁₁₅	132.	0.39	2+ HW
23806* 1998 <i>QD</i> ₄₀	4.030	0.50–0.58	2 W	24391 2000 <i>AU</i> ₁₇₈	5.436	0.35	2
23808* Joshuahammer	4.386	0.55–0.56	2 W	24393 2000 <i>AG</i> ₁₈₃		0.40	N
23809 Haswell	3.59	0.16	2-	24394* 2000 <i>AD</i> ₁₈₆	2.81	0.25	1+ W
23814 Bethanylynne	10.160	0.31	2 W	24403* 2000 <i>AX</i> ₁₉₃	5.347	0.31	3-
23818 Matthewlepow	6.534	0.39	2 W	24404 2000 <i>AB</i> ₁₉₄	3.721	0.54	2 W
23848 1998 <i>RJ</i> ₁	5.660	0.44	2 W	24405* 2000 <i>AT</i> ₁₉₇			N
23852 Laurierumker	2.461	0.10	1 W	24415 2000 <i>AA</i> ₂₅₁	6.654	0.62	2 p W

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Planet	Period	Variation	Note	Planet	Period	Variation	Note
24416 2000 <i>BF</i> ₂	6.265	0.37	2 W	25273* Barrycarole			HNW
24435* 2000 <i>DN</i>	9.60	0.91	3- W	25274* 1998 <i>VE</i> ₃₃	6.11	0.26	1 W
24442 2000 <i>GM</i> ₁₂₂	10.531	0.50	2 W	25282 1998 <i>WR</i>	11.513	0.40	2 W
24443 2000 <i>OG</i>	4.069	0.11	2 A	25285 1998 <i>WB</i> ₇	35.337	0.76	2 W
24445 2000 <i>PM</i> ₈	6.811	0.19-0.95	3	25298* Fionapaine	4.62	0.17	2 W
24446 2000 <i>PR</i> ₂₅	10.74	0.29	3- W	25302 Niim	2.984	0.14	2 W
24448* 2000 <i>QE</i> ₄₂	8.33	0.20-0.27	2+ W	25307 1998 <i>XU</i> ₇₇	10.983	0.32	2 W
24451* 2000 <i>QS</i> ₁₀₄	17.18	0.17-0.17	2+ W	25313 1998 <i>YV</i> ₈	3.32	0.19	2 W
24454 2000 <i>QF</i> ₁₉₈	>500.	>0.4	2- W	25318 1999 <i>CH</i> ₁₂	15.80	0.09	2 A
24459 2000 <i>RF</i> ₁₀₃	6.647	0.24	2 W	25327 1999 <i>JB</i> ₆₃	6.7160	0.63-0.65	3
24465 2000 <i>SX</i> ₁₅₅	5.71	0.13-0.21	2	25330 1999 <i>KV</i> ₄	4.919	0.14-0.15	N
24466 2000 <i>SC</i> ₁₅₆	271.923	0.63	2 W	25332 1999 <i>KE</i> ₆	2.4531	0.06-0.10	3
24470 2000 <i>SJ</i> ₃₁₀	11.60	0.30	3- W	25335* 1999 <i>NT</i>	3.3259	0.34-0.38	3
24471 2000 <i>SH</i> ₃₁₃	344.144	0.75	2 W	25338 1999 <i>RE</i> ₂	48.326	0.61	2 W
24475 2000 <i>VN</i> ₂		0.04	N	25349 1999 <i>RL</i> ₁₂₇		0.62	W
24478* 2000 <i>WC</i> ₁₄₅	16.13	0.30-0.49	3- W	25355 1999 <i>RU</i> ₂₂₁	10.02	0.79	N
24499 2001 <i>AL</i> ₃₀	9.219	0.07	1 W	25361 1999 <i>TC</i> ₂₃	3.171	0.50	2 W
24516 2001 <i>BB</i> ₆₆	3.86	0.11	2 W	25368 Gailcolwell	6.805	0.68	2 W
24523 Sanaraof	3.803	0.09	1 W	25391* 1999 <i>UC</i> ₁₆	4.048	0.29-0.33	2 W
24527 2001 <i>CA</i> ₆		0.75	W	25398 1999 <i>VM</i> ₁₂	21.374	0.37	2 W
24530 2001 <i>CP</i> ₁₈	45.2	0.35	2- W	25399 Vonnegut	11.597	0.29	2 W
24534* 2001 <i>CX</i> ₂₇	19.417	0.15	2 HW	25404 Shansample	5.028	0.52	2 W
24537* 2001 <i>CB</i> ₃₅	10.489	0.34	2+ HW	25417 Coquillette	5.415	0.55	2 W
24601* Valjean	5.89	0.84	3- W	25423 1999 <i>VS</i> ₁₂₇	42.635	0.43	2 W
24607 Sevnatu	6.08	0.71	3	25451 1999 <i>XC</i> ₈	4.531	0.70	2 W
24615 1978 <i>VO</i> ₅	11.03	0.21	2 W	25453 1999 <i>XU</i> ₁₁	18.513	0.17	2 W
24643 MacCready	4.5070	0.11	N	25457 Mariannamao	8.468	0.86	2 W
24654 Fossett	6.003	0.52-0.8	3	25458 1999 <i>XT</i> ₁₃	3.6594	0.30	3- A
24683 1990 <i>DV</i> ₃	10.0	0.56	2	25459 1999 <i>XL</i> ₁₄	22.298	0.59	2 W
24689 1990 <i>OH</i> ₁		0.38	N	25464* Maxrabinovich	6.236	0.75-0.93	3
24702 1991 <i>OR</i>	59.5	0.19	2- T0	25468* Ramakrishna	5.573	0.48	2 HW
24706 1991 <i>PA</i> ₅	4.47	0.21	2 W	25469 Ransohoff	8.57	0.11	2 W
24756* 1992 <i>VF</i>	12.265	0.09	2	25474 1999 <i>XO</i> ₃₈	2.852	0.09	1 W
24770* 1993 <i>FG</i> ₂₈	7.90	0.81	1 DAW	25489 1999 <i>XN</i> ₈₃	10.190	0.81	2 W
24783 1993 <i>SQ</i> ₁₃	4.19	0.28	2 W	25490 Kevinkelly	6.441	0.09	1 W
24814 1994 <i>VW</i> ₁	4.533	0.05	2	25495 Michaelrodgy	3.220	0.09	1 W
24815 1994 <i>VQ</i> ₆	31.17	0.53	3	25500 1999 <i>XF</i> ₉₁	11.285	0.55	2 W
24819 1994 <i>XY</i> ₄	27.73	0.04	2- A	25505 1999 <i>XQ</i> ₉₅	136.581	0.31	2 W
24822* 1995 <i>BW</i> ₁₁	5.71	0.50	3- W	25512 Anncomins	127.092	0.26	2 W
24827 Maryphil	11.653	0.44	3- W	25521 Stevemorgan	32.300	0.69	2 W
24835* 1995 <i>SM</i> ₅₅	8.08	0.05-0.19	2 A	25531 Lessek	7.693	0.53	2 W
24844 1995 <i>VM</i> ₁	5.353	0.25	2+ W	25535 1999 <i>XF</i> ₁₄₄	145.183	0.88	2 W
24856 Messidoro	2.39	0.20	2 W	25549 Jonsauer	2.124	0.27	2 W
24869 1996 <i>FZ</i>	6.18	0.41	2- W	25564* 1999 <i>XC</i> ₁₇₅	3.865	0.43-0.48	2 W
24870 1996 <i>FJ</i> ₁	3.10124	0.13	3	25583* 1999 <i>XJ</i> ₂₂₁	10.554	0.56-0.58	2 W
24891 1997 <i>AT</i> ₂	6.1709	0.96	3	25598 1999 <i>YK</i> ₁₆	3.383	0.60	2 W
24898 Alanholmes	6.86	0.62	2 W	25600 2000 <i>AS</i> ₁	5.579	0.71-0.80	2 W
24988 Alainmilsztajn	2.852	0.09	1 W	25626 2000 <i>AD</i> ₅₀	2.086	0.27	2 W
25011 1998 <i>PP</i> ₁	6.336	0.37	2 W	25631 2000 <i>AJ</i> ₅₅	10.028	0.27	2 W
25014 Christinepalau	12.00	0.15	2 W	25634 2000 <i>AZ</i> ₅₉	4.570	0.59	2 W
25028* 1998 <i>QL</i> ₂₆	5.88	0.60-0.68	3 W	25638 Ahissar	3.2721	0.66	3
25041 1998 <i>QX</i> ₄₀	4.29837	0.44	3	25647 2000 <i>AQ</i> ₇₅	45.961	0.24	2 W
25045* Baixuefei	4.174	0.83-0.87	2 W	25670* Densley	7.56	0.81	3- W
25050* Michmadsen	9.748	0.27-0.32	2 W	25673 Di Mascio	7.769	0.40	2 W
25068 1998 <i>QV</i> ₈₈	41.18	0.4	3	25684 2000 <i>AB</i> ₁₁₄	6.925	0.69	2 W
25070 1998 <i>QY</i> ₉₀	14.692	1.01	2 W	25685 Katlinhornig	9.522	0.22	2 W
25076 1998 <i>QM</i> ₉₈	58.3	0.35	2 T	25689* Duannihuang	6.374	0.62-0.69	2 W
25077 1998 <i>QJ</i> ₉₉	36.176	0.39	2 W	25698 Snehakannan	4.722	0.60	2 W
25079* 1998 <i>QU</i> ₁₀₃	3.19	0.57-0.61	2 W	25709 2000 <i>AP</i> ₁₄₂	2.962	0.27	2 W
25081* 1998 <i>QR</i> ₁₀₈	31.645	0.60-0.66	2 W	25711* Lebovits	6.58	0.76	2+ W
25094* Zemtsov	5.18	1.02-1.05	3- W	25716 2000 <i>AE</i> ₁₆₄	17.374	0.65	2 W
25099 Mashinskiy	3.763	0.56	2 W	25719 2000 <i>AV</i> ₁₇₁	19.4	0.82	N
25112 Mymeshkovych	10.1	0.35	2+ W	25738* 2000 <i>AQ</i> ₁₉₈	2.3488	0.24	3- W
25119 Kakani	45.248	0.21	2 W	25745 2000 <i>AC</i> ₂₄₂	5.514	0.61	2 W
25126 1998 <i>RO</i> ₇₈	5.21	0.27	2 W	25758* 2000 <i>BZ</i> ₂₉	2.95	0.11	1+ W
25128 1998 <i>SK</i> ₁	61.467	0.37	2 W	25762* 2000 <i>CO</i> ₂	4.05	0.92	2- W
25143 Itokawa	12.132	0.69-1.05	3 p T-	25773* 2000 <i>CX</i> ₂₇	11.749	0.41-0.49	2 W
25162* Beckage	2.46	0.38	2- W	25782* 2000 <i>CX</i> ₃₈	3.76	0.23	2+ W
25164* 1998 <i>SJ</i> ₆₂	16.238	0.57	2+ W	25783 Brandontyler	3.500	0.15	2 W
25171* 1998 <i>SX</i> ₆₆	11.6	0.33-0.40	2 W	25797 2000 <i>CG</i> ₈₂	10.540	0.20	2 W
25186 1998 <i>SY</i> ₁₁₅	6.4233	0.45	3- W	25799* Anmaschlegel	4.38	0.23	2+ W
25196 1998 <i>SH</i> ₁₃₄	3.639	0.33	2 W	25805* 2000 <i>CV</i> ₉₁	9.90	0.15	2 W
25215 1998 <i>SC</i> ₁₆₄	21.872	0.50	2 W	25814* Preesinghal	3.12	0.39	2- W
25220* 1998 <i>TQ</i> ₆	8.65	0.13-0.13	2 W	25831* 2000 <i>DF</i> ₁₁₁	4.78	0.29	2 W
25228 Mikekitt	6.194	0.29	2 W	25855* 2000 <i>EA</i> ₁₆₈	13.393	0.59-0.60	2 W
25235* 1998 <i>UC</i> ₃			HNW	25861 2000 <i>FS</i> ₁₅	6.996	0.18	2 W
25241 1998 <i>UF</i> ₁₄	5.146	0.58	2 W	25866 2000 <i>GA</i> ₁₀₀	104.469	0.52	2 W
25253 1998 <i>UV</i> ₂₉	3.789	0.47	2 W	25879 2000 <i>QA</i> ₁₀₅	23.642	0.64	2 W
25262 1998 <i>VL</i> ₁₄	17.732	0.33	2 W	25884* Asai	4.9169	0.36-0.55	3 B?
25263 1998 <i>VM</i> ₁₆	5.114	0.20	2 W	25887 2000 <i>SU</i> ₃₀₈	21.975	0.72	2 W

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Planet	Period	Variation	Note	Planet	Period	Variation	Note
25891* 2000 WK ₉	4.1375	0.22	3- p	26514 2000 CH ₄₈	4.9655	0.72-0.94	3
25895* 2000 XN ₉	14.230	0.28	2+	26515* 2000 CJ ₅₃	5.516	0.67-1.06	2 W
25907 Capodilupo	6.936	0.59	2 W	26520 2000 CQ ₇₅	3.970	0.37	2 W
25911* 2001 BC ₇₆	8.80	0.63	2+	26522 Juliapoje	>12.	>0.07	1 W
25916 2001 CP ₄₄	4.19	0.28-0.37	3	26524 2000 CY ₈₅	3.332	0.09	1 W
25928 2001 DJ ₅₂	8.021	0.53	2 W	26569 2000 EL ₇₇	12.624	0.60	2 W
25934 2001 DC ₇₄	19.1	0.90	2	26577 2000 EC ₉₁	2.676	0.25	2 W
25956 2001 FE ₁₆	6.643	0.47	2 W	26584 2000 EF ₁₁₄	6.668	0.31	2 W
26002 Angelayeung	2.299	0.25	2 W	26596 2000 EE ₁₇₁	9.007	0.39	2 W
26010* 2001 FN ₁₂₉	4.16	0.66	2 W	26606* 2000 FH ₃₁	2.82	0.14	2 W
26021 4177 P-L	72.725	0.86	2 W	26616 2000 GG ₆	4.015	0.28	2 W
26022 4180 P-L	5.4	0.9	2	26623 2000 GK ₈₂	4.834	0.36	2 W
26027 Cotopaxi	7.1	1.02	2 W	26630 2000 GH ₁₃₃	3.62	0.09	1 W
26031 6074 P-L	4.55	0.84	2- W	26635* 2000 HC ₅₃	5.27	0.19	2+ W
26038 2290 T-1	8.07	0.51	2 W	26636 2000 HX ₅₇	4.274	0.25	2+
26045 1582 T-2	2.9	0.10	N	26657 2000 SX ₂₉₃	3.3	0.30	2
26048* 2409 T-2			HNW	26663 2000 XK ₄₇	2.572	0.11	N
26058 1061 T-3	6.058	0.49	2 W	26687 2001 FH ₅₄	6.169	0.37	2 W
26073 5168 T-3	9.552	0.78	2 W	26722 2001 HK ₇	20.252	0.53	3
26074 Carlwirtz	2.5493	0.11	3 B	26736 Rojeski	12.343	0.39	2 W
26083 1981 EJ ₁₁	336.601	0.33	2 W	26740* Camacho	3.39	0.27	1+ W
26084 1981 EK ₁₇	121.957	0.68	2 W	26743 2001 HE ₃₈	4.732	0.70	2 W
26088 1985 QF ₁	7.437	0.09	1 W	26757 Bastei	3.241	0.07	1 W
26090 1986 PU ₁	4.23	0.33	2 W	26758* 2001 KV ₁₉	10.00	1.05	3- W
26093 1987 UA ₁	3.3186	0.10	2+ A	26760 2001 KP ₄₁	5.300	0.24-0.31	3
26094 1988 NU	4.604	0.09	1 W	26761* Stromboli	15.96	0.12	3
26096 1988 SD ₃	11.228	0.21	2 W	26762 2564 P-L	4.293	0.37	2 W
26098 1989 AN ₃	2.42	0.12	1 W	26790* 5235 T-3			HNW
26110 1991 NK ₄	9.179	0.79	2 W	26800 Gualtierotrucco	6.820	0.51	2 W
26121 1992 BX	3.554	0.31	2 W	26808* 1982 VB ₄	14.3	0.25	2
26125 1992 RG	4.2005	0.49	3	26836* 1991 PA ₆	3.61	0.41-0.47	2 W
26128* 1993 BO ₁₀	8.70	0.40-0.45	3- W	26839 1991 RC ₁₀	3.288	0.46	2 W
26133* 1993 FS ₂₆	6.767	0.15-0.29	2 W	26853 1992 UQ ₂	8.270	0.14	2+
26138 1993 TK ₂₅	32.00	1.26	2 W	26854* 1992 WB	3.34	0.24	2 W
26163* 1995 DW			HNW	26858 Misterrogers	8.066	0.13	3
26174 1996 EP ₁	5.93	0.12	1	26867* 1993 GK ₁	4.38	0.15	2 W
26181 1996 GQ ₂₁		<0.10		26876 1994 CR ₁₄	306.715	0.54	2 W
26182 1996 HW ₈	2.769	0.09	1 W	26879 Haines	2.7614	0.07	2
26197* Bormio	3.607	0.43-0.48	2 W	26880* 1994 PK ₈	7.449	0.60-0.63	2 W
26198 1997 GJ ₁₃	181.109	0.39	2 W	26881* 1994 PF ₁₁	6.777	0.54-0.64	2 W
26203 1997 KS	12.845	0.17	2 W	26887 Tokyogiants	2.876	0.23	3
26227 1998 HJ ₇	22.07	0.15	2 A	26888* 1994 XH			HNW
26230 1998 QR ₁	7.318	0.68	2 W	26894 1995 KN ₁	9.929	0.63	2 W
26231 1998 QQ ₇	2.969	0.28	2 W	26895 1995 MC	12.72	0.04	N
26241* 1998 QY ₄₀	12.835	0.71-0.76	2 p s	26912 1996 JG ₁	14.031	0.42	2 W
26269 Marciapril	57.282	0.65	2 W	26916 1996 RR ₂	10.324	0.27-1.05	3
26284 1998 SZ ₅₉	7.501	0.22	2 W	26918* 1996 RA ₁₆	3.69	0.27	2 W
26285 1998 SS ₆₁	20.353	0.33	2 W	26922* Samara	4.16	0.57	2 W
26287 1998 SD ₆₇	10.648	0.38	3- W	26930 1997 CH ₂₀	4.425	0.30	2 W
26304 1998 SZ ₁₄₅	4.952	0.76	2 W	26934* Jordancotler	>20.	>0.25	2-
26330 1998 WN ₅	4.794	0.68	2 W	26937* Makimiyamoto			HNW
26335 1998 WT ₁₆	3.773	0.37	2 W	26949* 1997 JV ₇	8.675	0.46-0.50	2 W
26337 Matthewagam	98.949	0.53	2 W	26959 1997 MR ₈	6.498	0.20	2 W
26340 Evamarkova		>0.1		26968 1997 RB ₉	4.126	0.40	2 W
26343 1998 XB ₅₃	12.554	0.47	2 W	26974 1997 TJ ₁₉	13.263	0.79	2 W
26346 1998 XF ₉₃	13.927	0.29	2 W	26977 1997 US ₃	309.679	0.92	2 W
26348 1998 XO ₉₄	15.695	0.21	2 W	26984 Fernand-Roland	20.	0.3	1+
26351 1998 XG ₉₅	14.096	0.69	2 W	26989* 1997 WO ₇	6.129	0.35-0.35	2 W
26355 Grueber	5.015	0.59	2 W	26993* Littlewood	5.886	0.32-0.40	2 W
26372 1999 CW ₆₉	37.694	0.10	1 W	27018 1998 KQ ₅₂	5.733	0.41	2 W
26375 1999 DE ₉	>24.	<0.10	1	27036 1998 RZ ₅₄	46.876	0.50	2 W
26380 1999 JY ₆₅	13.653	0.38	3	27039* 1998 RJ ₆₁	4.38	0.18-0.19	2 W
26382 1999 LT ₃₂	7.784	0.56	2 W	27060 1998 SU ₃₇	5.798	0.52	2 W
26383 1999 MA ₂	4.918	0.30-0.35	3	27062* 1998 SJ ₅₈	59.527	0.31-0.36	2 W
26387 1999 TG ₂	5.14720		p Ns	27065 1998 SJ ₆₄	4.560	0.20	3
26399* Rileyennis	19.968	0.56-0.71	2 W	27068 1998 SU ₇₄	4.011	0.21	2+
26403 1999 WF ₁₈	5.166	0.21	2 W	27072 Aggarwal	7.121	0.13	2 W
26408 1999 XO ₃₃	29.250	0.36	2 W	27094* Salgari	6.694	0.32-0.40	2 W
26410 1999 XZ ₃₄	5.619	0.38	2 W	27097 1998 UM ₂₆	>20.	>0.07	1 W
26412 Charlesyu	46.57	0.45	2 W	27111 1998 VV ₃₄	3.323	0.15	3-
26416 1999 XM ₈₄	2.907	0.20	3-	27134* 1998 XO ₁₁	3.198	0.34-0.37	2 W
26419 1999 XR ₉₅	2.552	0.09	1 W	27136 1998 XJ ₁₆	26.	>0.10	N
26433 Michaelyurko	7.933	0.64	2 W	27139* 1998 XX ₄₆	5.195	0.21-0.36	2 W
26441* Nanayakkara	4.85	0.62	2 W	27146 1998 YL ₁	11.310	0.27	2 W
26447 Akkrishnan	102.922	0.56	2 W	27154 1998 YG ₇	3.126	0.30	2 W
26460 2000 AZ ₁₂₀	5.48	0.90	2 p	27162 1999 AM ₆	8.808	0.38	2 W
26461 2000 AW ₁₂₄	2.340	0.09	1 W	27171 1999 AD ₃₃	4.108	0.37	2 W
26471 Tracybecker	2.68679	0.18-0.24	3 B	27172 1999 AN ₃₄	9.890	0.53	2 W
26472 2000 AC ₁₆₂	3.745	0.36	2 W	27181 1999 CX ₁	20.67	0.45	1+
26485 2000 AD ₂₃₁	42.222	0.33	2 W	27182 1999 CL ₃	13.670	0.56	2 W

MINOR PLANET LIGHTCURVE PARAMETERS

Planet	Period	Variation	Note	Planet	Period	Variation	Note
27183 1999 <i>CF</i> ₄	4.574	0.16	2 W	27978* Lubosluka	4.68	0.23	2 W
27185 1999 <i>CH</i> ₃₇	3.155	0.25	2 W	28003 1997 <i>WT</i> ₅₂	3.690	0.23	2 W
27204 1999 <i>CY</i> ₇₄	9.7	>0.8	2-	28017 1997 <i>YV</i> ₁₃	47.	>0.15	2 T?
27205* 1999 <i>CY</i> ₇₅	7.699	0.19-0.20	2 W	28020 1998 <i>BP</i> ₅	6.498	0.66	2 W
27208* Jennyllu	9.102	0.57-0.59	2 W	28063* 1998 <i>OR</i> ₁₄	7.01	0.21-0.22	2 W
27225 1999 <i>GB</i> ₁₇	3.85386		p Ns	28067* 1998 <i>QA</i> ₁₄	3.746	0.45-0.48	2 W
27227* 1999 <i>GB</i> ₄₈	3.82	0.09	2 W	28071* 1998 <i>QC</i> ₂₆	10.031	0.30-0.32	2 W
27243 1999 <i>UK</i> ₂₄	2.994	0.27	2 W	28098 1998 <i>RJ</i> ₆₄	2.601	0.27	2 W
27259 1999 <i>XS</i> ₁₃₆	12.078	0.67	2 W	28103 Benmcpheron	5.05	0.30	2 W
27270 Guidotti	2.6	0.3	1	28126 Nydegger	3.783	0.11	2+
27278 2000 <i>AU</i> ₆₁	5.780	0.39	2 W	28133 Kylebardwell	5.46284		p Ns
27295* 2000 <i>AU</i> ₁₄₃	9.968	0.26-0.27	2 W	28162* 1998 <i>VD</i> ₁₄	3.82	0.10	1+ W
27300 2000 <i>AA</i> ₁₆₈	6.3208	0.93	3	28186 1998 <i>WK</i> ₁₈	9.656	0.04	1 W
27303* Leitner	38.541	0.72-0.74	2 W	28192 1998 <i>WE</i> ₂₄	34.293	0.37	2 W
27331 2000 <i>CE</i> ₅₈	3.004	0.26	2 W	28228* 1999 <i>AU</i> ₂	8.00	0.60	2- W
27351 2000 <i>DO</i> ₇₃	9.008	0.16	3	28244 1999 <i>AL</i> ₃₁	3.942	0.09	1 W
27360* 2000 <i>DH</i> ₁₀₇	11.199	0.49-0.58	2 W	28271* 1999 <i>CK</i> ₁₆	5.645	0.07-0.17	3-
27365 Henryfitz	6.512	0.78	2 W	28292 1999 <i>CX</i> ₅₄	6.4752	0.34	3
27371 2000 <i>ER</i> ₄₀	14.435	0.87	2 W	28294 1999 <i>CS</i> ₅₉	179.783	0.56	2 W
27377* 2000 <i>EY</i> ₅₄	6.182	0.69-0.91	2 W	28353 Chrisnielsen	3.499	0.10	1 W
27388 2000 <i>ET</i> ₈₆	3.641	0.13	2 W	28354 1999 <i>FV</i> ₃₃	4.618	0.22	2 W
27391 2000 <i>EU</i> ₉₀	2.772	0.12	2 W	28358* 1999 <i>FW</i> ₄₈	6.018	0.31-0.36	2 W
27395 2000 <i>EX</i> ₉₄	3.714	0.24	2 W	28365* 1999 <i>GF</i> ₁₄	5.33	0.27	2 W
27402* 2000 <i>EZ</i> ₁₀₈	19.066	0.57-0.71	2 W	28371* 1999 <i>GG</i> ₃₉	4.056	0.66-0.77	2 W
27440 Colekendrick	5.493	0.08	1 W	28387 1999 <i>JE</i> ₇₉	3.595	0.28	2 W
27450 Monzon	4.748	0.10	2-	28388 1999 <i>JM</i> ₈₆	35.483	0.66	2 W
27460 2000 <i>GW</i> ₄₂	7.01	0.10	2 W	28395 1999 <i>RZ</i> ₄₂	5.237	0.37	2 W
27467 2000 <i>GF</i> ₆₉	18.920	0.43	2 W	28396 Eymann	12.548	0.26	2 W
27469* 2000 <i>GN</i> ₇₂	7.744	0.58-0.72	2 W	28399 1999 <i>RY</i> ₁₃₆	10.802	0.46	2 W
27471* 2000 <i>GG</i> ₇₆	12.47	0.69	2 W	28417 Leewei	32.503	0.55	2 W
27473 2000 <i>GV</i> ₇₈	21.907	0.83	2 W	28418 Pornwasu	87.784	0.79	2 W
27495 Heatherfennell	4.916	0.56	2 W	28420 1999 <i>VC</i> ₇₈	3.092	0.19	2 W
27496 2000 <i>GC</i> ₁₂₅	4.7089	0.10-0.12	2+	28422* 1999 <i>VA</i> ₁₅₄	4.733	0.44-0.53	2 W
27500 Mandelbrot	5.741	0.61	2 W	28434 1999 <i>XL</i> ₁₇₆	27.	0.30	2-
27502* Stephbecca	6.96	0.33-0.34	2 W	28438 Venkateswaran	11.417	0.35	2 W
27508 2000 <i>GS</i> ₁₄₂	8.222	0.28	2 W	28461 2000 <i>AL</i> ₁₆₄	3.44	0.09	1+
27515 Gunnels	3.277	0.10	1 W	28465 Janesmyth	2.676	0.29	2 W
27529 2000 <i>HJ</i> ₆₄	4.1290	0.51	2 A	28468 Shichangxu	4.595	0.57	2 W
27550 2000 <i>JC</i> ₂₄	7.696	0.19	2 W	28480 Seojinyoung	6.865	0.41	2 W
27556 Williamprem	81.362	0.82	2 W	28489 2000 <i>CN</i> ₅₈	11.664	0.38	2 W
27557 2000 <i>JP</i> ₅₅	15.144	0.23	2 W	28493 Duncan-Lewis	7.696	0.66	2 W
27564 Astreichelt	2.932	0.37	2 W	28497 2000 <i>CJ</i> ₆₉	210.389	0.87	2 W
27568 2000 <i>PT</i> ₆	3.4885	0.10-0.15	3 B?	28509* Feddersen	5.04	0.43-0.47	2 W
27579 2000 <i>TA</i> ₂₉	11.300	0.45	2 W	28523* 2000 <i>DH</i> ₅₀	5.19	0.18	2 W
27597 Varuniyer	6.182	0.67	2 W	28528 2000 <i>DC</i> ₇₀	6.00	0.18	2 W
27618* Ceilierin	6.401	0.34-0.37	2 W	28529 2000 <i>DQ</i> ₇₀	30.749	0.68	2 W
27669 1979 <i>MQ</i> ₄	84.693	0.53	2 W	28531* Nikbogdanov	7.62	0.28	1+
27676 1981 <i>DH</i> ₃	2.797	0.16	2 W	28541 2000 <i>ED</i> ₆	2.692	0.13	2 W
27695 1981 <i>EW</i> ₃₆	8.37	0.15	2 N	28548 2000 <i>EY</i> ₂₅	6.068	0.74	2 W
27697 1981 <i>EM</i> ₄₅	6.890	0.56	2 W	28552 2000 <i>EY</i> ₃₈	263.244	0.30	2 W
27700 1982 <i>SW</i> ₃	9.997	0.32	3-	28553 Bhupatiraju	3.28	0.15	2+
27713 1989 <i>AA</i>	3.999	0.72-0.82	3	28565 2000 <i>EO</i> ₅₈	3.83	0.04	1
27720 1989 <i>UP</i> ₃	7.598	0.91	2 W	28566* 2000 <i>EV</i> ₅₉	3.14	0.51	3 W
27721 1989 <i>WJ</i>	31.902	0.79	2 W	28572* Salebreton	6.36	0.25	2+
27722 1990 <i>OB</i> ₂	14.85	0.33-0.42	2	28590 2000 <i>EX</i> ₁₂₆	6.253	0.34	2 W
27776 Cortland	2.6095	0.05-0.07	3-	28591 2000 <i>EC</i> ₁₃₀	3.083	0.10	1 W
27778* 1992 <i>DF</i> ₆	4.27	0.56-0.66	2 W	28595* 2000 <i>EP</i> ₁₃₆	>10.	>0.15	2- W
27785* 1992 <i>OE</i> ₃	9.232	0.47-0.53	2 W	28610 2000 <i>EM</i> ₁₅₈	3.288	0.24	3
27789 Astrakhan	2.609	0.04	1 W	28619 2000 <i>FP</i> ₂₄	17.872	0.55	2 W
27802 1993 <i>FY</i> ₃₀	8.581	0.35	2 W	28650 2000 <i>GE</i> ₈	9.591	0.80	2 W
27810 Daveturner	546.	0.43	2+	28654 Davidcaine	7.656	0.67	2 W
27821* 1993 <i>TU</i> ₃₄	3.78	0.24	2 W	28656 Doreencurtin	3.771	0.16	2 W
27834 1994 <i>PW</i> ₁₃	4.25	0.47	2 W	28658 2000 <i>GC</i> ₃₀	8.332	0.62	2 W
27839* 1994 <i>PX</i> ₂₀			HNW	28675* Suejohnston	7.174	0.52-0.56	2 W
27848 1994 <i>UZ</i>	7.74	0.15	2 W	28678 Lindquister	2.516	0.12	2 W
27851 1994 <i>VG</i> ₂	7.733	1.0	2	28679* 2000 <i>GY</i> ₆₈	7.822	0.57-0.79	2 W
27860 1995 <i>BV</i> ₂	3.918	0.32	2 W	28680 Sandralitvin	187.435	0.56	2 W
27861 1995 <i>BL</i> ₄	28.273	0.47	2 W	28704 2000 <i>GU</i> ₉₁	2.84	0.20	2
27867 1995 <i>KF</i> ₄	418.940	0.37	2 W	28707 Drewbecker	4.47	0.30	2 W
27875* 1996 <i>BL</i> ₃	3.20	0.22	2-	28715 Garimella	4.99	0.44	2 W
27880 1996 <i>EQ</i>	4.998	0.58	2 W	28735* 2000 <i>GX</i> ₁₂₅	5.190	0.61-0.88	2 W
27913 1996 <i>TC</i> ₄₁	4.113	0.39	2 W	28736 2000 <i>GE</i> ₁₃₃	4.658	0.44	3 p
27915 Nancywright	5.459	0.35	2 W	28753 2000 <i>HA</i>	4.993	1.0 -1.1	3
27921 1996 <i>VY</i> ₂₆	18.703	0.64	3-	28762 2000 <i>HG</i> ₁₃	5.582	0.64	2 W
27923* 1996 <i>XJ</i> ₃₂			HNW	28769 2000 <i>HC</i> ₂₆	3.759	0.04	1 W
27950 1997 <i>OF</i> ₁	5.804	0.07	1 W	28774 2000 <i>HO</i> ₃₆	6.117	0.79	2 W
27953* 1997 <i>PF</i> ₅	3.906	0.29-0.31	2 W	28775 2000 <i>HE</i> ₃₇	20.242	0.21	2 W
27962 1997 <i>SY</i> ₁	5.291	0.05	2-	28788 2000 <i>HW</i> ₅₇	3.3905	0.32	2+
27965* 1997 <i>SH</i> ₂₅	5.629	0.34-0.36	2 W	28789* 2000 <i>HE</i> ₅₈	6.76	0.44	2 W
27973 1997 <i>TR</i> ₂₅	6.497	0.30	3	28811* 2000 <i>JX</i> ₉	13.2	0.35-0.38	3-

MINOR PLANET LIGHTCURVE PARAMETERS

Planet	Period	Variation	Note	Planet	Period	Variation	Note
28816* Kimneville			HNW	29512* 1997 YL ₅	4.012	0.34–0.39	2 W
28845 2000 JP ₄₉	3.636	0.31	2 W	29515 1997 YL ₇	12.231	0.67	2+
28854 Budisteanu	13.951	0.32	2 W	29516 1997 YO ₇	9.86	0.39	2– W
28857 2000 JE ₅₉	335.486	0.54	2 W	29518 1997 YW ₁₁	3.720	0.58	2 W
28876 2000 KL ₃₁	210.598	0.41	2 W	29534 1998 BP ₇	5.670	0.23	2 W
28880* 2000 KN ₄₆	6.249	0.76–0.87	2 W	29536* 1998 BC ₁₂	19.768	0.16–0.20	2 W
28885 2000 KH ₅₆	3.325	0.58	2 W	29540 1998 BV ₂₄	3.397	0.22	2 W
28887 2000 KQ ₅₈	6.8429	0.55	3 p	29548* 1998 BC ₄₂	4.295	0.24–0.26	2 W
28892 2000 LZ ₂	11.2575	1.07	3	29555 MACEK	33.615	0.33	2 W
28895 2000 LS ₉	16.135	0.45	2 W	29557 1998 DV ₃	72.838	0.40	2 W
28904 2000 ML	9.757	0.20	2 W	29567 1998 FT ₁₃	3.568	0.57	2 W
28910* 2000 NH ₁₁	5.971	0.46–0.65	2+	29580 1998 FK ₅₅	6.840	0.23	2 W
28911 2000 NB ₁₆	5.486	0.46	2 W	29584 1998 FQ ₆₀	9.408	0.20	2 W
28913 2000 OT	13.754	0.32–0.44	3–	29588 1998 FM ₇₁	7.573	0.61	2 W
28915* 2000 OU ₁₃			HNW	29594 1998 GK ₈	9.140	0.26	2 W
28947 2000 WH ₁₂	4.235	0.32	2 W	29595 1998 HL ₁₄	6.418	0.32	2 W
28970 2001 JJ ₄	15.185	0.69	2 W	29597 1998 HT ₃₇	4.000	0.18	2 W
28976 2001 KN ₇₃	8.752	0.34	2 W	29620 Gurbanikaur	10.148	0.58	2 W
28978 Ixion		<0.15		29628 1998 TX ₃₀	5.409	0.49	2 W
28992* 2001 MW ₂₈	16.6	0.79	2	29634 1998 VB ₃			W
29010 4100 P–L	13.110	0.31	2 W	29649 1998 WP ₆	6.694	0.07	1 W
29019 6095 P–L	160.	0.35	1+	29664 1998 WY ₂₃	3.016	0.35	2 W
29027 7587 P–L	6.955	0.61	2 W	29665 1998 WD ₂₄		0.16	N
29029 9549 P–L	4.017	0.23	2 W	29683* 1998 XO ₅₀	2.899	0.25–0.38	3– W
29033* 2085 T–I	15.00	0.60–0.83	2 W	29687 Mohdreza	4.537	0.39	2 W
29074 5160 T–3		0.64	W	29690 Nistala	8.755	0.18	2 W
29075 1950 DA	2.1216	0.16–0.20	3 p	29697 1998 YR ₁	10.854	0.23	2 W
29116 1981 ED ₄₀	27.187	0.43	2 W	29729 1999 BY ₁	4.5279	0.60–0.65	3
29127 1985 FF ₂	7.221	0.24	2 W	29733 1999 BA ₄	849.186	0.74	2 W
29132 Bradpitt	8.835	0.32	2 W	29742 1999 BQ ₁₂	4.3	0.7	1+
29140 1988 CG ₄	2.990	0.32	2 W	29752 1999 CG ₄	25.974	0.56	2 W
29142 1988 CR ₇	18.494	0.50	2 W	29755 1999 CT ₅	4.17	0.40	2 W
29146 McHone	14.12	0.18	2 W	29757 1999 CH ₈	17.161	0.53	2 W
29147 1988 GG	99.	0.80	2+	29762 Panasiewicz	13.106	0.61	2 W
29149 1988 RE ₁	4.151	0.09	2 W	29764 Panneerselvam	5.468	0.86	2 W
29153 1988 SY ₂	3.493	0.36	2 W	29765 Miparedes	>30.	>0.1	1 W
29162 1989 SD ₄	6.505	0.05	1 W	29769 1999 CE ₂₈	15.03	0.33	2
29168 1990 KJ	2.58247	0.14–0.15	3 B?	29776* Radzhabov	4.49	0.35	2 W
29170 1990 OA ₃	8.089	0.87	2 W	29777* 1999 CK ₄₆	3.630	0.45–0.49	2 p s
29172 1990 QL ₄	53.235	0.41	2 W	29780 1999 CJ ₅₀	63.50	0.58	3– T0
29182 1990 ST ₆	33.361	0.49	2 W	29797 1999 CC ₇₈	3.266	0.14	2 W
29194* 1990 WJ ₄	6.020	0.36–0.67	2 W	29801 1999 CX ₈₄	2.775	0.16	3
29196 1990 YY	long	0.38		29803* Michaelshao	5.188	0.45–0.56	2 W
29202 1991 GH ₈	10.924	0.16	2 W	29804 Idansharon	3.19	0.16	2 W
29218 1992 AY	26.280	0.59	2 W	29811 1999 CK ₁₀₉	17.535	0.78	2 W
29219 1992 BJ	12.00	0.09	2 W	29818 Aryosorayya	14.	>0.3	1
29231 1992 EG ₄	259.524	0.85	2 W	29835 1999 FW ₁	6.954	0.26	2 W
29242 1992 HB ₄	3.948	0.56–0.60	3	29838* 1999 FA ₇	6.220	0.45–0.47	2 W
29251 1992 UH ₄	3.099	0.13–0.20	2+	29847 1999 FC ₂₄	13.845	0.89	2 W
29252* Konjikido	6.835	0.80–0.83	2 W	29863 1999 FC ₄₃	19.312	0.62	2 W
29266 1993 FA ₂₀	5.680	0.38	2 W	29877 1999 GL ₁₇	6.361	0.54	2 W
29267 1993 FD ₂₂	13.875	0.62	2 W	29889 1999 GN ₃₆	5.381	0.65	2 W
29287 1993 FD ₄₉	4.974	0.55	2 W	29890 1999 GH ₃₇	189.596	0.59	2 W
29292 Conniewalker	30.6	0.62–0.63	3–	29891 1999 GQ ₃₇	6.836	0.23	2 W
29296* 1993 PY ₅	>48.	>0.9	HNW	29903 1999 HP ₉	13.292	0.25	2 W
29297* 1993 RU ₇	3.096	0.18–0.21	2 W	29912 1999 JQ ₁₀	20.402	0.43	2 W
29298* Cruis	5.207	0.16–0.20	3–	29913 1999 JO ₁₂	5.62	0.30	1 W
29308 1993 UF ₁	9.810	0.83–0.94	3 p	29915 1999 JG ₁₈	3.7	0.46	1
29314 Eurydamas	15.035	0.86–1.05	3	29917 1999 JP ₁₉	3.656	0.50	2 W
29335* 1994 XL	6.96	0.13–0.16	2 W	29921 1999 JE ₂₆	3.903	0.39	2 W
29337 Hakurojo	4.5096	0.38	3	29946 1999 JZ ₈₃	8.483	0.31	2 W
29343 1995 CK ₁₀	63.852	0.62	2 W	29951 1999 JH ₈₆	8.574	0.19	2 W
29385 1996 JT	5.026	0.44	2 W	29953 1999 JW ₈₆	8.54	1.25	2+
29388* 1996 JD ₆	6.798	0.21–0.23	2 W	29955* 1999 JE ₉₀	3.98	0.17–0.24	2 W
29391 Knight	5.131	0.51	2 W	29956 1999 JF ₉₁	12.619	0.41	2 W
29393 1996 NA ₃	10.298	0.27	2 W	29967 1999 JN ₁₀₄	4.219	0.18	2 W
29405 1996 TN ₁₈	3.522	0.26	2 W	29981 1999 TD ₁₀	15.382	0.41–0.65	3
29407* 1996 UW	6.23	0.43	2–	29983 Amyxu	14.156	0.50	2 W
29423 1997 AF ₂₂	5.19	0.33	2 W	29997 2000 AE ₁₂₇	20.038	0.43	2 W
29435 Mordell	5.828	0.29	2 W	30006* 2000 CB ₃₀	3.82	0.55	2– W
29438 1997 MV	2.440	0.07	1 W	30016 2000 CA ₉₅	2.5857	0.11	3
29455 1997 SX ₁	64.820	0.28	2 W	30017 Shaundatta	2.6	0.23	2
29470* Higgs	36.31	0.48	2+	30019* 2000 DD	5.4741	0.06–0.16	3
29474 1997 UT ₈	2.901	0.09	1 W	30025 Benfreed		0.58	W
29475 1997 UF ₁₁	8.331	0.53	2 W	30028* Yushihomma	2.54	0.25	1+
29480 1997 VO ₁	2.643	0.22	2 W	30074 2000 EY ₉₆	3.636	0.10	1 W
29497 1997 WD ₁₅	9.913	0.68	2 W	30075 2000 EC ₉₇	41.5	>0.2	2– W
29498 1997 WK ₂₁	4.521	0.47	2 W	30092* 2000 EB ₁₃₅			HNW
29506 1997 XM	5.308	0.28	2 W	30102 2000 FC ₁	23.95	0.50	2
29508 Bottinelli	6.709	0.78	2 W	30105 2000 FO ₃	7.272	0.45	3

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Planet	Period	Variation	Note	Planet	Period	Variation	Note
30111* Wendislyk	16.968	0.63–0.69	2 W	30984* 1995 SW ₁₉			HNW
30116 2000 FA ₃₆	2.5857	0.11	3	30988* 1995 SE ₃₆	6.76	0.56	2– W
30141 Nelvenzon	20.735	0.45	2 W	30990 1995 ST ₄₈	4.61	0.21	1 W
30168 Linusfreyer	5.68	0.21	2 W	31001 1995 VG ₁₄	4.832	0.30	2 W
30179 Movva	6.079	0.21	2 W	31013* 1996 DR	280.	0.5	2– TO
30185 2000 GT ₉₅		0.18	N	31017 1996 EH ₂	3.9	0.45	2
30214 2000 GS ₁₂₅	8.23	0.53	3– W	31019 1996 EH ₁₀	2.461	0.27	2 W
30220* 2000 GP ₁₂₆	3.3670	0.50–0.58	3	31021 1996 FW ₁	19.20	0.68	2 W
30251* Ashkin	5.60	0.74	2	31022* 1996 FJ ₉	15.60	0.24	1 DAW
30262 2000 HP ₄₁	21.860	0.35	2 W	31036 1996 HM ₂₅	3.968	0.23	2 W
30267 Raghuvanshi	5.391	0.09	1 W	31048 1996 PO ₉	4.042	0.34	2 W
30287 2000 HK ₆₂	10.689	0.55	2 W	31050 1996 RA ₂	41.970	0.42	2 W
30305 Severi	32.643	0.57	2 W	31060* 1996 TB ₆	5.103	0.79–0.80	3 p
30311 2000 JS ₁₀	2.266	0.06–0.16	3–	31068 1996 TT ₅₄	110.815	0.64	2 W
30325 Reesabpathak	33.958	0.29	2 W	31069* 1996 UM ₁	3.23	0.33	2 W
30327 Prembabu	4.424	0.56	2 W	31076 1996 XH ₁	350.	0.17	2 AT0
30329* 2000 JR ₂₃	28.4	0.95	2+ HW	31088* 1997 BV	3.282	0.47	2+ W
30338 2000 JW ₂₉	40.185	0.46–0.46	2 W	31091 1997 BE ₉	128.444	0.77	2 W
30343 2000 JB ₃₆	7.56	0.16	2 W	31095 Bunejou	3.484	0.18	2 W
30366 2000 JC ₅₇	5.261	0.27	2 W	31097 Nucciomula		1.33	I
30372 Halback	2.877	0.07	1 W	31108 1997 PW ₃	13.237	0.87	2 W
30375* Kathuang	4.646	0.54–0.60	2 W	31129 Langyatai	3.163	0.61	2 W
30379 2000 JY ₆₉	18.614	0.52	2 W	31136 1997 SN ₃₁	3.174	0.35	2 W
30382 2000 JB ₈₁	4.253	0.40	2 W	31152 Daishinsai	3.194	0.14	2 W
30385 2000 KG ₈	4.430	0.09	1 W	31173 1997 XF ₁	122.8	0.67	2+ TO
30419 2000 LU	4.259	0.23	2 W	31177 1997 XH ₁₁	323.355	0.49	2 W
30427 2000 LX ₈	24.	0.1	1 W	31179 Gongju	4.829	0.80	3
30431 Michaeltran	90.014	1.08	2 W	31180 1997 YX ₃	15.6	0.25	2
30432 2000 LM ₂₀		0.7	N	31182* 1997 YZ ₃	380.	0.62–0.90	2 TO
30436 2000 LC ₂₉	7.658	0.42	2 W	31189 Tricomi	4.896	1.04	2 W
30441 Curly	6.939	0.27	2 W	31190 Toussaint	12.355	0.15	2 W
30455 2000 NB ₂₇	7.87	0.32	2 W	31192 Aigoual	4.329	0.56	2 W
30467* 2000 OV ₁₄	5.941	0.56–0.60	2 W	31205 1998 BW	20.907	0.66	2 W
30470 2000 OR ₁₉	23.02	0.73	2 W	31211 1998 BW ₈	3.697	0.47	2 W
30476 2000 OY ₃₄	3.467	0.34	2 W	31221 1998 BP ₂₆	2.407	0.07–0.10	3–
30480 2000 OH ₄₀	3.171	0.09	1 W	31223 1998 BJ ₃₀	25.925	0.67	2 W
30483* 2000 OG ₅₂	13.894	0.25–0.26	2 W	31227 1998 BC ₄₁		>0.05	
30491 2000 QJ ₃₈	3.60	0.12	2 W	31228 1998 BR ₄₅	5.546	0.68	2 W
30506 2000 RO ₈₅	7.985	0.29	2 W	31231 Uthmann	16.9	0.14	2–
30535 2001 OR ₅	2.9697	0.12	3 B?	31232 Slavonice	6.295	0.45	2 W
30542 2001 OG ₂₃	5.360	0.22	2 W	31234 1998 CL ₁	3.56	0.18	2 W
30567 2001 OR ₉₀	3.62	0.33	2 W	31249* 1998 DF ₁₄	3.34	0.12	2– W
30570 2001 OO ₉₆	4.587	0.71	2 W	31291 Yaoyue	3.62	0.12	2 W
30581 2001 PY ₂	2.973	0.33	2 W	31332* 1998 HC ₁₀₁	7.17	0.29–0.31	2 W
30583 2001 PZ ₆	5.207	0.80	2 W	31341 1998 KH ₅₅	3.007	0.22	2 W
30585* 2001 PE ₁₄	3.00	0.35	1 W	31343 1998 NT	13.303	0.55	2 W
30591 2001 QG ₁₀	172.363	0.83	2 W	31344 1998 OM ₁₂	42.392	0.63	2 W
30594 2001 QD ₃₀	4.712	0.30	2 W	31345* 1998 PG	2.51620	0.11	2 B
30598 2001 QA ₁₁₇	8.709	0.10	1 W	31354 1998 TR ₃	35.36	0.18	2+ W
30613 2678 P–L	10.13	0.4	2 A	31368 1998 WW ₂₃	14.860	0.21	3
30639* 6246 P–L	2.78	0.29	2 W	31383 1998 XJ ₉₄	4.1678	0.58	3 p
30650 7638 P–L	6.784	0.51	2 W	31386 1998 YG ₁	8.082	0.55	2 W
30670 1283 T–2	10.4	1.2	2 W	31388* 1998 YL ₂	4.254	0.26–0.26	2 W
30693 5069 T–2	19.450	0.84	2 W	31399 1998 YF ₃₀	359.054	0.40	2 W
30705 Idaios	15.736	0.22–0.26	3	31402 Negishi	9.686	0.08	2 W
30724 Peterburgtrista	6.004	0.31	2 W	31416 Peteworden	2.609	0.38	2 W
30731 1981 EK ₂	8.499	0.75	2 W	31420 1999 BV	38.862	0.60	2 W
30734 1981 ES ₃	3.776	0.59	2 W	31425 1999 BF ₃	3.8	0.03–0.11	1+ W
30762* 1981 ES ₄₂	16.4	0.18–0.24	2	31427* 1999 BS ₅	5.347	0.60–0.61	2 W
30770 1984 SL ₄	5.	0.42	2	31429 1999 BL ₇	36.900	0.46	2 W
30772* 1986 RJ ₁	7.994	0.49–0.52	2 W	31431 Cabibbo	7.610	0.41	2 W
30780 1988 CA ₂	5.09	0.10	1 W	31448 1999 CO ₈	3.546	0.63	2 W
30781 1988 CR ₂	5.823	0.56–0.70	3	31450 1999 CU ₉	3.4116	0.24–0.31	3 B
30790 1988 RT ₁₁	5.129	0.42	2 W	31472 1999 CT ₃₆	3.2	0.14	1
30800 1989 ST	2.740	0.14	2 W	31485* 1999 CM ₅₁	6.001	0.59–0.68	3 p
30803 1989 SG ₁₄	3.404	0.47	2 W	31495 Sarahgalvin	>9.	>0.05	N
30823 1990 SY ₁₅	2.028	0.10	1 W	31521 1999 CT ₁₀₆	3.622	0.08	1 W
30825 1990 TG ₁	2.62428	0.11	3	31544 1999 DZ ₅	2.714	0.40	2 W
30843 1991 JK ₁	2.859	0.34	2 W	31547 1999 DT ₆	11.52	0.18	1
30856 1991 XE	5.353	0.70–1.23	3	31554 1999 EJ ₂	30.339	0.15	2 W
30878 1992 GQ	3.655	0.22	3–	31560 1999 EQ ₁₄	2.950	0.19	2 W
30888 Okitsumisaki	7.975	0.24	2 W	31570 1999 FG ₁₉	3.514	0.30	2 W
30891 1993 FV ₁₄	12.244	0.47	2 W	31601 1999 GF	2.797	0.10	2 W
30928 Jefferson	5.841	0.23	2 W	31603* 1999 GQ ₃	3.566	0.26–0.34	2 W
30935 Davasobel	3.9769	0.60	3	31610 1999 GC ₆	5.506	0.43	2 W
30942 Helicaon	44.77	0.18	2	31613* 1999 GO ₈			HNW
30952* 1994 PX ₁₅	8.89	0.44	2+ W	31615 1999 GF ₁₆	2.707	0.15	2 W
30958* 1994 TV ₃	5.811	0.67–0.85	3	31623 1999 GK ₂₀	23.238	0.45	2 W
30971 1995 DJ	32.00	0.68	2 W	31626 1999 GV ₂₀	13.184	0.12	2 W
30981 1995 SJ ₄	2.951	0.14	3–	31628 Vorperian	4.484	0.4	2

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Planet	Period	Variation	Note	Planet	Period	Variation	Note
31633* Almonte	4.17	0.60	3 W	32254* 2000 OR ₅₁	5.433	0.31–0.33	2 W
31641* Cevasco	2.656	0.48–0.71	2 W	32257 2000 OW ₅₂	11.413	0.20	2 A
31648 1999 GL ₅₃	3.475	0.84	2 W	32259 2000 OT ₅₃	3.690	0.34	2 W
31650 Frydek–Místek	2.88	0.19	2 N	32262* 2000 OA ₆₀	10.11	1.12	2 W
31667 1999 JL ₃	7.305	0.24	2	32264 Cathjesslai	4.58	0.64	2 W
31668* 1999 JX ₃	11.71	0.29–0.42	2 W	32281 Shreyamenon	13.15	0.37	2 W
31669 1999 JT ₆	5.807	0.07–0.27	3	32282 Arnoldmong	95.	0.3	1 W
31674 1999 JD ₉	6.943	0.54	2 W	32290* 2000 QH ₅	3.590	0.27–0.28	2 W
31697 Isaiahhoneal	3.752	0.46	2 W	32339* 2000 QA ₈₈	9.778	0.63–0.71	2 W
31699 1999 JA ₃₆	6.618	0.59	2 W	32354 2000 QN ₁₁₉	3.93	0.18	2 W
31716* Matoonder	4.573	0.22–0.23	2 W	32358 2000 QS ₁₂₄	21.82	0.28	2 W
31723 1999 JT ₆₁	8.231	0.21–0.25	3–	32359 2000 QZ ₁₂₈	8.647	0.27	2 W
31729 Scharmen	18.953	0.30	2 W	32370 2000 QY ₁₅₁	long		1+
31737* Carriecoombs	6.93	0.50–0.55	2 W	32378 2000 QB ₁₇₃	5.382	0.45	2 W
31738 1999 JC ₇₇	11.768	0.35	2 W	32395 2000 QV ₂₁₃	15.349	0.60	2 W
31751 1999 JF ₈₅	8.988	0.38	2 W	32407 2000 RT ₁	4.867	0.20	2 W
31759 1999 JT ₉₉	41.246	0.29	2 W	32412 2000 RW ₂₅	3.838	0.15	2 W
31773 1999 JL ₁₂₁	3.433	0.22	2 W	32414 2000 RT ₂₉	33.253	0.68	2 W
31774 Debralas	3.17	0.27	2 W	32422 2000 RO ₄₂	3.557	0.38	2 W
31786 1999 KO ₁₃	4.821	0.21	2 W	32423 2000 RO ₄₃	18.248	0.44	2 W
31793 1999 LB ₆	27.95	0.28	3	32433* 2000 RF ₉₂	4.47	0.15	2 W
31798 1999 LY ₁₆	6.002	0.74	2 W	32435 2000 RZ ₉₆	18.606	0.32	2 W
31813 1999 RF ₄₁	18.097	1.20	3–	32441 2000 RO ₁₀₀	4.03	0.36	2+
31816 1999 RZ ₁₁₇	3.258	0.40	2 W	32445* 2000 RC ₁₀₄	7.661	0.33–0.36	2 W
31817* 1999 RK ₁₃₄	9.856	0.21–0.25	3–	32448* 2000 SD ₁₂	8.35	0.64	2– W
31818 1999 RM ₁₃₅	5.36	0.51	2 W	32460* 2000 SY ₉₂	49.66	0.22	3–
31824 Elatus	26.82	0.10	2	32479 2000 SL ₃₁₂	>8.	>0.05	1+
31827 1999 VJ ₁₃	12.28	0.05	2–	32482 2000 ST ₃₅₄	5.67	0.16	3–
31830 1999 XT ₅₉	3.649	0.39	2 W	32483 2000 SM ₃₆₂	10.821	0.69	2 W
31831 1999 YL	3.36	0.12	2–	32495 2000 WT ₁₇₁	17.203	0.17	2 W
31832 2000 AP ₅₉	64.	0.8	2 T	32496 2000 WX ₁₈₂	23.34	0.19	3–
31834 2000 AL ₁₄₂	7.540	0.10	1 W	32505* 2001 KF ₁₇	4.58	0.41–0.50	3–
31847 2000 DQ ₉₆	19.347	0.64	2 W	32506 2001 KP ₃₀	4.818	0.72	2 W
31850 2000 EB ₂₂	31.1	0.20	2+	32518* 2001 OZ ₆₉	3.20	0.47	2+
31862* 2000 EY ₇₀	5.716	0.55–0.62	2 W	32522* Judiepersons	3.62	0.26–0.27	2 W
31867 2000 EG ₉₄	4.846	0.22	3–	32523 2001 OY ₈₂	2.942	0.36	2 W
31881* 2000 FL ₁₅	4.16	0.21–0.25	2	32526 2001 OD ₉₈	3.890	0.35	2 W
31888* Polizzi	5.13	0.26–0.27	2 W	32532 Thereus	8.335	0.16–0.38	3
31891 2000 FR ₄₂	14.152	0.32	2 W	32534 2001 PL ₃₇	155.461	0.45	2 W
31898 2000 GC ₁	17.2	0.07	1	32535 2001 PZ ₄₀	6.695	0.73	2 W
31907* Wongsumming	3.786	0.15	2– HW	32539 2001 PD ₅₉	276.307	0.67	2 W
31939 Thananon	>20.	>0.03	1 W	32546 2001 QE ₁₄	5.046	0.37	2 W
31947 2000 GO ₁₀₉	3.822	0.07	2 W	32553* 2001 QC ₂₇	4.00	0.26–0.36	2 W
31956 Wald	8.90	0.45	2+	32575 2001 QY ₇₈	4.5344	0.86	3 p
31961 2000 GJ ₁₄₂	7.341	0.56	2 W	32586 2001 QQ ₁₁₆	20.875	0.50	2 W
31970 2000 HD ₉	22.085	0.58	2 W	32587 2001 QO ₁₁₇	3.146	0.06	1 W
31978 Jeremyphilip	3.42	0.27	2 W	32600 2001 QF ₁₇₃	7.855	0.72	2 W
31987* 2000 HN ₂₈	19.141	0.71–0.97	2 W	32602 2001 QE ₁₈₅	5.928	0.18	2 W
31993 2000 HL ₃₇	15.686	0.10	1 W	32615 2001 QU ₂₇₇	6.712	0.36	3
31995* 2000 HX ₄₀	6.40	0.48	3– W	32618 Leungkamcheung	3.077	0.32	2 W
32008 Adriálgalád	3.0171	0.19	3 B	32626 2001 RX ₆₄	6.23	0.43	3–
32011* 2000 HF ₅₆	6.382	0.66–0.87	2 W	32632 2001 RS ₇₅	6.673	0.27	2 W
32017 2000 HC ₇₇	21.379	0.10	1 W	32648 3538 P–L	9.934	0.56	2 W
32030 2000 JX ₁₄	6.099	0.82	2 W	32650 4070 P–L	2.520	0.38	2 W
32039 2000 JO ₂₃	3.2990	0.05	2 B	32678 7566 P–L	6.985	0.29	2 W
32042 2000 JZ ₂₆	5.086	0.08	1 W	32686* 2072 T–1	7.16	0.61	3– W
32060 Wyattpontius	2.88	0.48	1 W	32705 2157 T–2	98.	0.5	1 W
32063 Pusapaty	4.955	0.35	2 W	32720 Simoeisios	8.951	0.37	2 W
32068 2000 JE ₅₈	2.054	0.53	2 W	32734* Kryukov	16.55	0.37	2 W
32089* Wojtania	6.630	0.67–0.70	2 W	32750 1981 EG ₉	100.	0.6	1
32116 2000 LD ₄	>8.		2 N	32753 1981 EB ₁₄	15.	0.60	2–
32134 2000 LQ ₁₇	10.514	0.26	2 W	32755 1981 EP ₁₅	10.07	0.15	1
32137 2000 LM ₁₉	7.069	0.56	2 W	32772* 1986 JL	6.047	0.14–0.69	3
32141 2000 LB ₂₄	8.123	0.30	2 W	32776 Nriag	3.985	0.60	3 p
32145* Katberman	9.170	0.70–0.85	2 W	32777 1987 QF ₁	6.373	0.38	2 W
32151 2000 LX ₃₁	20.	0.20	1 DW	32798 1990 OA ₂	10.509	0.64	2 W
32166 2000 NN ₆	4.412	0.51	2 W	32799 1990 QN ₁	9.49636		2 p
32172* 2000 NB ₁₁	6.86	0.96	2 W	32800 1990 QC ₁₉	3.709	0.14–0.17	3
32199 2000 ON ₂	5.214	0.09	1 W	32802 1990 SK	2.427	0.12	3–
32202 2000 OA ₃	37.495	0.65	2 W	32814* 1990 XZ	2.8509	0.09–0.15	3 p
32208 Johnpercy	5.086	0.75	2 W	32819* 1991 PM ₁₅			HNW
32209 2000 OW ₉	4.559	0.21	3–	32842 1992 EO ₁₃	79.3	0.75	2– W
32212 2000 OV ₁₁	6.729	0.55	2 W	32856 1992 SA ₂₅	13.507	0.40	3
32215* 2000 OG ₁₆	8.00	0.73–0.90	2 W	32861 1993 FM ₇	86.890	0.08	1 W
32217 Beverlyge	16.432	0.38	2 W	32868 1993 FM ₂₅		1.04	1 W
32218* 2000 OE ₁₉	2.61	0.23	2 W	32873 1993 FS ₃₇	4.639	0.54	2 W
32219 2000 OU ₂₀	7.172	0.18	2 W	32882 1993 RW ₆	3.07	0.23	2– W
32226* Vikulgupta	2.57	0.34–0.35	2 W	32890 Schwob	7.930	0.67	3–
32232* 2000 OU ₂₇	5.68	0.19–0.36	2+ W	32895* 1994 JL ₅	14.02	0.24	1 DAW
32239 2000 OB ₃₉	4.769	0.59	2 W	32906 1994 RH	2.569	0.12	3–

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Planet	Period	Variation	Note	Planet	Period	Variation	Note
32910 1994 <i>TE</i> ₁₅	5.5596	0.14–0.16	3	33699 1999 <i>KT</i> ₁₂	124.044	0.33	2 W
32928 Xiejjalin	38.9	0.56	2 T0	33736 1999 <i>NY</i> ₃₆	211.	0.4	2 T?
32929 1995 <i>QY</i> ₉	7.0	0.6	2	33741* 1999 <i>NB</i> ₅₀	6.155	0.27–0.28	2 W
32947 1995 <i>YH</i> ₂	4.395	0.71	2 W	33749 1999 <i>QO</i>	7.831	0.37	2 W
32953* 1996 <i>GF</i> ₁₉	4.329	0.13–0.13	2	33750 Davehiggins	8.827	0.20–0.25	3
32960 1996 <i>NO</i> ₄	3.142	0.16	2 W	33764* 1999 <i>RM</i> ₉₂	7.04	0.36–0.39	2 W
32986 1996 <i>XQ</i> ₆	8.181	0.23	2 W	33776 1999 <i>RB</i> ₁₅₈	16.9593		p Ns
32990 Sayo-hime	4.788	0.50	2 W	33778 1999 <i>RO</i> ₁₆₀	5.295	0.24	2 W
32992 1997 <i>AN</i> ₃	7.688	0.67	2 W	33785 1999 <i>RD</i> ₁₉₂	7.126	0.29	2 W
32996* 1997 <i>CV</i>	8.857	0.79–0.87	2 W	33788* 1999 <i>RL</i> ₂₄₀	54.669	0.57–0.57	2 W
33017 Wronski	3.765	0.26	2 W	33790 1999 <i>SA</i> ₉	3.179	0.17	2 W
33018 1997 <i>HT</i> ₅	7.907	0.42	2 W	33791 1999 <i>SG</i> ₁₇	5.358	0.56	2 W
33031 1997 <i>RX</i>	8.372	0.43	2 W	33813 1999 <i>XH</i> ₁₇₇	11.750	0.65	2 W
33046 1997 <i>UF</i> ₂	2.67219	0.09	2+	33816 2000 <i>AL</i> ₄₂	193.	0.12	2– AT0
33054 1997 <i>UU</i> ₁₄	81.345	0.70	2 W	33844 2000 <i>GQ</i> ₁₃₃	6.139	1.00	2 W
33097* 1997 <i>YB</i> ₇	11.419	0.34–0.35	2 W	33854 2000 <i>HH</i> ₅₃	4.42348		p Ns
33102 1997 <i>YJ</i> ₁₁	14.660	0.34	2 W	33862 2000 <i>HS</i> ₉₉	3.715	0.29	2 W
33107 1997 <i>YL</i> ₁₆	5.173	0.28	3	33873 2000 <i>JS</i> ₅₂	3.612	0.28	2 W
33108 1997 <i>YJ</i> ₁₈	155.	0.4	1+	33891 2000 <i>KS</i> ₂₄	4.261	0.24	2 W
33116 1998 <i>BO</i> ₁₂	6.345	0.34–0.36	3– p	33896 2000 <i>KL</i> ₄₀	23.8	0.26	2
33121* 1998 <i>BR</i> ₁₅	6.280	0.74–0.80	2 W	33908 2000 <i>LL</i> ₆	5.91	0.25	3
33125* 1998 <i>BU</i> ₃₃			HNW	33910 2000 <i>LJ</i> ₉	79.959	0.58	2 W
33126* 1998 <i>BB</i> ₃₄	7.27	0.29	2 W	33916 2000 <i>LF</i> ₁₉	4.4099	0.41	3
33127 1998 <i>BO</i> ₄₆	30.910	0.54	2 W	33933* 2000 <i>LE</i> ₂₉	2.447	0.35–0.46	2 W
33128 1998 <i>BU</i> ₄₈	12.6	0.68	2 A	33934 2000 <i>LA</i> ₃₀	5.2	0.30	2– W
33150* 1998 <i>DN</i> ₁₀	5.33	0.14	1 1W	33956* 2000 <i>NN</i> ₃	3.22	0.30	3 W
33159 1998 <i>DQ</i> ₃₃	14.341	0.44	2 W	33957 2000 <i>NG</i> ₅	10.244	0.11	2 W
33165* 1998 <i>EO</i> ₂	17.754	0.40–0.41	2 W	33974 2000 <i>ND</i> ₁₇	4.67868		p Ns
33197* Charlallen	6.736	0.32–0.34	2 W	33981 2000 <i>NH</i> ₂₂	2.816	0.19	2+
33203 1998 <i>FA</i> ₅₇	3.0	0.26	2–	33982 2000 <i>NQ</i> ₂₃	4.227	0.33	2 W
33214 1998 <i>FP</i> ₉₀	15.977	0.31	2 W	33989 2000 <i>NC</i> ₂₇	21.872	0.39	2 W
33229 1998 <i>FC</i> ₁₂₄	>5.		N	33993 2000 <i>OS</i>	19.500	0.34	2 W
33259 1998 <i>HL</i> ₃₉	4.31	0.60	3	34030* 2000 <i>OM</i> ₂₆			HNW
33265 1998 <i>HC</i> ₆₃	3.62	0.21	2 W	34035 2000 <i>OV</i> ₂₇	>10.		N
33272 1998 <i>HC</i> ₁₀₂	5.867	0.62	2 W	34036 2000 <i>OX</i> ₂₇	14.143	0.90	3–
33277 1998 <i>HO</i> ₁₁₉	6.299	0.66	2 W	34045 2000 <i>OD</i> ₃₄	287.260	0.23	2 W
33295* 1998 <i>KV</i> ₄₀	101.321	0.90–0.98	2 W	34057 2000 <i>ON</i> ₄₄	7.391	0.80	2 W
33296 1998 <i>KN</i> ₄₂	3.147	0.18	2 W	34064 2000 <i>OK</i> ₅₁	3.902	0.63	2 W
33305 1998 <i>KQ</i> ₅₀	20.410	0.50	2 W	34078* 2000 <i>PF</i>			HNW
33307* 1998 <i>KX</i> ₅₂	6.973	0.30–0.41	2 W	34087 2000 <i>PA</i> ₇	4.169	0.53	2 W
33313 1998 <i>KJ</i> ₆₀	105.009	0.62	2 W	34095 2000 <i>PW</i> ₁₁	4.598	0.53	2 W
33319 Kunqu	105.	0.9	2+	34102 2000 <i>PO</i> ₁₆	4.646	0.50	2 W
33324 1998 <i>QE</i> ₅₆	6.183	0.62–0.86	3	34110 2000 <i>PX</i> ₂₄	14.194	0.73	2 W
33329 1998 <i>RY</i> ₇₇	3.45	0.21	2 W	34111 2000 <i>PZ</i> ₂₄	58.5	0.22	2–
33340 1998 <i>VG</i> ₄₄		<0.10		34118 2000 <i>PC</i> ₂₇	9.180	0.18	2 W
33341 1998 <i>WA</i> ₅	204.	0.57	3– T-	34126* 2000 <i>QA</i> ₁	3.54	0.16	2 W
33342 1998 <i>WT</i> ₂₄	3.697	0.19–0.65	3 p	34137* Lonnielinda	9.3	0.52–0.77	3– W
33343 1998 <i>XT</i> ₁₀	6.21	0.15	1 W	34154* 2000 <i>QC</i> ₂₀	6.606	0.54–0.72	2 W
33356 1999 <i>AM</i> ₃	37.59	0.92	3– T-	34155 2000 <i>QJ</i> ₂₂	3.0084	0.10	2+
33358 1999 <i>AD</i> ₈	5.996	0.63	2 W	34173 2000 <i>QY</i> ₃₇	3.521	0.33	2+
33362 1999 <i>BP</i> ₁	4.258	0.44	2 W	34175 2000 <i>QG</i> ₃₉	9.904	0.09	1 W
33372 1999 <i>BP</i> ₂₃	>24.	>0.15	2– DW	34180* 2000 <i>QP</i> ₄₂	2.96	0.32	2 W
33380 1999 <i>CC</i> ₃₃	2.894	0.07	1 W	34189 2000 <i>QD</i> ₄₈	9.629	0.21	2 W
33391* 1999 <i>CN</i> ₅₁	2.46	0.14	1 W	34192 2000 <i>QE</i> ₅₀	9.240	0.24	2 W
33404 1999 <i>CT</i> ₇₃	15.655	0.57	2 W	34217* 2000 <i>QA</i> ₇₈	7.314	0.24–0.25	2 W
33440 1999 <i>FR</i> ₁₈	3.745	0.67	2 W	34226* 2000 <i>QM</i> ₈₈	3.25	0.22–0.26	2 W
33442* 1999 <i>FW</i> ₁₈	4.92	0.26	1 1W	34232 2000 <i>QL</i> ₉₄	6.78	0.86	2 W
33474 1999 <i>FB</i> ₅₁	19.762	0.29	2 W	34242 2000 <i>QD</i> ₁₀₀	5.385	0.62	2 W
33478 Deniselivon	5.108	0.63	2 W	34260 2000 <i>QG</i> ₁₂₀	5.3	0.43	2–
33489 1999 <i>GF</i> ₉	6.74	0.97	3–	34285 2000 <i>QA</i> ₁₄₇	13.466	0.44	2 W
33517 1999 <i>GT</i> ₃₄	11.844	0.48	2 W	34294 2000 <i>QM</i> ₁₅₂	3.247	0.14	2 W
33531* 1999 <i>HG</i> ₂	8.911	0.58–0.62	2 W	34301 2000 <i>QO</i> ₁₇₁	43.032	0.42	2 W
33532 Gabriellacoli	6.792	0.82	2 W	34318 2000 <i>QV</i> ₁₉₂	6.35105		p Ns
33539 1999 <i>HU</i> ₁₀	9.135	0.50	2 W	34319 2000 <i>QD</i> ₁₉₃	8.57	0.57	2 W
33548 1999 <i>JC</i> ₁₃	3.97	0.33	2	34322 2000 <i>QW</i> ₁₉₆	72.585	0.58	2 W
33556* 1999 <i>JR</i> ₂₀	3.86	0.12	2+	34331 2000 <i>QH</i> ₂₀₉	5.39	0.18	1+
33558 1999 <i>JN</i> ₂₂	9.67	0.72	2 W	34345* 2000 <i>RY</i>			W
33563 1999 <i>JV</i> ₂₄	14.264	0.44	2 W	34346* 2000 <i>RJ</i> ₁	9.24	0.42	1 DW
33577 1999 <i>JX</i> ₃₃	5.533	0.21	2 W	34347 2000 <i>RN</i> ₁	17.104	0.22	2 W
33579* 1999 <i>JC</i> ₃₅	21.290	0.39–0.41	2 W	34384 2000 <i>RW</i> ₆₁	4.003	0.44	2 W
33612 1999 <i>JZ</i> ₆₂	6.557	0.69	2 W	34389 2000 <i>RJ</i> ₆₅	2.83	0.26	2 W
33619 1999 <i>JB</i> ₆₆	4.377	0.27	2 W	34421* 2000 <i>SA</i> ₁₂	5.599	0.24–0.33	2 W
33639 1999 <i>JB</i> ₈₁	2.956	0.63	2 W	34426* 2000 <i>SS</i> ₂₂	6.40	0.73–0.82	2 W
33646 1999 <i>JX</i> ₈₂	3.33	0.08	2+	34427 2000 <i>SN</i> ₂₃	3.175	0.22	2 W
33657* 1999 <i>JP</i> ₈₉	5.03	0.21	2 W	34440 2000 <i>SV</i> ₄₆	7.859	0.54	2 W
33665 1999 <i>JR</i> ₉₃	>10.	>0.4	1	34442* 2000 <i>SS</i> ₆₄	5.3325	0.83–0.84	3
33670 1999 <i>JB</i> ₉₈	3.026	0.45	2 W	34449* 2000 <i>SJ</i> ₇₉	13.52	0.93	1+ DAW
33679 1999 <i>JY</i> ₁₀₇	>12.	>0.15	2	34459 2000 <i>SC</i> ₉₁	2.7791	0.14	2+
33682 1999 <i>JO</i> ₁₁₃	4.904	0.55	2 W	34469 2000 <i>SM</i> ₁₁₀	6.036	0.63	2 W
33684 1999 <i>JW</i> ₁₁₉	5.87	0.66	2–	34484 2000 <i>SR</i> ₁₂₄	6.174	0.80	2+ p

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Planet	Period	Variation	Note	Planet	Period	Variation	Note
34488 2000 <i>SO</i> ₁₃₅	5.117	0.44	2 W	35363* 1997 <i>TV</i> ₂₈	18.779	0.33	2+ HW
34502 2000 <i>SE</i> ₁₅₇	4.71	0.05	2	35364* Donaldpray	5.477	0.59–1.00	3
34511 2000 <i>SK</i> ₁₇₅	4.710	0.50	2 W	35369 1997 <i>UJ</i> ₁₁	2.48	0.15	1
34529 2000 <i>SD</i> ₂₁₂	3.71	0.60–0.65	3–	35373 1997 <i>UT</i> ₂₅	4.85	0.60	2 W
34535 2000 <i>SR</i> ₂₂₀	7.813	0.35	2 W	35389 1997 <i>XO</i>	1.37	0.18	N
34546 2000 <i>SG</i> ₂₃₄	6.761	0.09	1 W	35396* 1997 <i>XF</i> ₁₁	3.259	0.52–0.93	3
34549 2000 <i>SA</i> ₂₃₈	4.674	0.41	2 W	35404 1997 <i>YV</i> ₅	5.74543	0.34–0.35	3
34551 2000 <i>SJ</i> ₂₄₂	22.677	0.62	2 W	35424 1998 <i>BK</i>	4.214	0.30	2 W
34557 2000 <i>SE</i> ₂₇₀	80.550	0.49	2 W	35425 1998 <i>BY</i>	4.6	0.70	2+ W
34563 2000 <i>SS</i> ₂₉₀	38.317	0.26	2 W	35430 1998 <i>BT</i> ₆	7.	0.82	N
34565 2000 <i>SY</i> ₂₉₂	16.555	0.11	2 W	35449 1998 <i>CR</i> ₃	13.599	0.65	2 W
34572 2000 <i>SY</i> ₃₁₀	6.64	0.57	3	35475 1998 <i>EP</i> ₉	4.96	0.17	2– W
34575* 2000 <i>SH</i> ₃₂₇	8.42	0.16	2 W	35481* 1998 <i>FA</i> ₈	8.50	0.32	1+ DAW
34587* 2000 <i>SA</i> ₃₅₇	3.032	0.16–0.17	2 W	35491 1998 <i>FQ</i> ₂₇	3.60	0.27	2 W
34591 2000 <i>TB</i> ₁₅	7.402	0.52	2 W	35501 1998 <i>FM</i> ₄₁		0.51	W
34606 2000 <i>UT</i>	21.586	0.50	2 W	35513 1998 <i>FL</i> ₅₃	13.581	0.53	2 W
34610 2000 <i>UV</i> ₉	33.933	0.20	2 W	35530 1998 <i>FE</i> ₇₀	5.692	0.13	2 W
34621 2000 <i>UR</i> ₅₅	6.220	0.61	2 W	35532 1998 <i>FV</i> ₇₁	123.820	0.40	2 W
34628 2000 <i>UA</i> ₉₉	6.902	0.57	2 W	35545 1998 <i>FQ</i> ₁₀₃	2.30	0.20	2 W
34642 2000 <i>WN</i> ₂	7.374	0.13	2–	35552 1998 <i>FE</i> ₁₁₅	3.628	0.31	2 W
34681 2001 <i>BB</i> ₂₂	9.637	0.31	2 W	35596 1998 <i>HZ</i> ₁₁₇	2.025	0.09	1 W
34688* 2001 <i>FG</i> ₁₁₉	6.19	0.44	2 W	35625 1998 <i>KK</i> ₈	10.057	0.31	2 W
34694* 2001 <i>MK</i> ₁₈	4.4626	0.43	3	35647 1998 <i>KA</i> ₆₇	8.833	0.89	2 W
34706 2001 <i>OP</i> ₈₃	2.5946	0.13–0.16	3 B	35652 1998 <i>MT</i> ₂₉	30.580	0.45	2 W
34715* 2001 <i>PO</i> ₁₂	13.446	0.50–0.54	2 W	35661 1998 <i>QV</i> ₃₉	6.589	1.09	2 W
34726* 2001 <i>QA</i> ₂₅	15.47	0.35–0.61	2	35671 1998 <i>SN</i> ₁₆₅	8.84	0.16	2 A
34728 2001 <i>QM</i> ₃₀	5.179	0.57	2 W	35673* 1998 <i>VQ</i> ₁₅	31.0	0.52–0.58	2
34734* 2001 <i>QS</i> ₆₄	3.60	0.35–0.38	2 W	35689 1999 <i>CD</i> ₁₂	39.202	0.33	2 W
34735 2001 <i>QA</i> ₆₉	3.843	0.06	1 W	35690* 1999 <i>CT</i> ₂₁	9.06	0.48–0.60	2
34739 2001 <i>QO</i> ₇₅	11.345	0.21	2 W	35694* 1999 <i>CP</i> ₅₄	7.01	0.51	3– W
34742* 2001 <i>QD</i> ₇₉	8.81	0.30	2	35697 1999 <i>CG</i> ₁₀₄	277.598	0.92	2 W
34746 2001 <i>QE</i> ₉₁	19.633	0.56	3	35715 1999 <i>FD</i> ₃₂	8.744	0.41	2 W
34759 2001 <i>QL</i> ₁₅₁	12.219	0.28	3–	35722 1999 <i>FM</i> ₄₁	5.537	0.74	2 W
34777 2001 <i>RH</i>	7.4947	0.36–0.40	3	35725* Tramuntana	2.63	0.27	2– W
34781 2001 <i>RK</i> ₆₃	11.280	0.25	2 W	35728 1999 <i>GA</i> ₂	5.070	0.65	2 W
34794* 2001 <i>SS</i> ₂₅	10.589	0.35–0.54	2 W	35774 1999 <i>JL</i> ₉	7.860	0.15	2 NA
34803 2001 <i>SW</i> ₆₃	8.864	0.27	2 W	35783 1999 <i>JU</i> ₂₀	40.650	0.17	2 W
34817 Shiominemoto	6.382	0.75–0.87	3	35797 1999 <i>JY</i> ₃₁	3.52	0.32	3– W
34824* 2001 <i>SY</i> ₁₅₆	6.229	0.13–0.15	2 W	35821 1999 <i>JW</i> ₅₀	4.931	0.54	2 W
34832* 2001 <i>SU</i> ₂₃₄	5.05	0.81	2 W	35830 1999 <i>JL</i> ₅₄	99.370	0.91	2 W
34839 2001 <i>SL</i> ₂₆₃	16.966	0.57	2 W	35833 1999 <i>JN</i> ₅₇	92.064	0.73	2 W
34843 2001 <i>SZ</i> ₂₇₆	3.093	0.30	2 W	35842* 1999 <i>JX</i> ₅₉	3.39	0.42	1+ 1W
34850 2001 <i>TL</i> ₈	25.212	0.53	2 W	35851* 1999 <i>JW</i> ₆₂	6.423	0.84–0.97	2 W
34880 2001 <i>UN</i> ₄₅	4.898	0.64	2 W	35859* 1999 <i>JN</i> ₆₆	6.49	0.25	3 W
34895 2026 <i>P–L</i>	5.893	0.76	2 W	35863* 1999 <i>JX</i> ₆₇	7.719	0.66–0.70	2 W
34946 2286 <i>T–1</i>	2.255	0.18	2 W	35883 1999 <i>JH</i> ₇₈	2.805	0.08	1 W
34961 2252 <i>T–2</i>	2.975	0.26	2 W	35886 1999 <i>JG</i> ₈₀	3.19	0.12	2
34966 3260 <i>T–2</i>	3.224	0.07	1 W	35913* 1999 <i>JC</i> ₉₇	5.016	0.29–0.33	2 W
34978 1901 <i>T–3</i>	14.52	0.39	2 W	35919 1999 <i>JY</i> ₉₉	5.942	0.61	2 W
34979* 2173 <i>T–3</i>	2.49	0.18	3– W	35920 1999 <i>JJ</i> ₁₀₁	2.690	0.18	2 W
34999 1978 <i>VC</i> ₃	4.647	0.22	2 W	35922* 1999 <i>JO</i> ₁₀₂	5.61	0.57–0.75	2 W
35002 1978 <i>VY</i> ₈	18.238	0.25	2 W	35926 1999 <i>JO</i> ₁₀₅	9.947	0.28	2 W
35005 1979 <i>MY</i> ₃	7.245	0.32–0.45	2 W	35928 1999 <i>JV</i> ₁₀₇	7.26361		p Ns
35012 1981 <i>EU</i> ₂	40.311	0.57	2 W	35965 1999 <i>LH</i> ₁₃	6.76072		Ns
35035 1981 <i>ER</i> ₂₉	5.005	0.75	2 W	35971 1999 <i>LJ</i> ₂₆	9.328	0.10	1
35040 1981 <i>EV</i> ₃₃	84.183	0.58	2 W	35992 1999 <i>NF</i> ₁₂	9.716	0.42	2 W
35055 1984 <i>RB</i>	3.658	0.35–0.49	3	36017* 1999 <i>ND</i> ₄₃	5.79	0.28–0.28	2
35062 Sakuranosyou	19.08	0.40	2	36035* Petrvo	7.961	0.71–0.92	2 W
35063 1988 <i>FD</i>	2.682	0.11	2 W	36056 1999 <i>RX</i> ₃₂	14.478	0.30	2 W
35087 von Sydow	36.1	0.55	2	36057 1999 <i>RC</i> ₃₃	5.424	0.35	2 W
35107 1991 <i>VH</i>	2.6236	0.08–0.15	3 B	36059 1999 <i>RT</i> ₃₉	28.382	0.64	2 W
35131 1992 <i>PE</i> ₂	14.790	0.47	2 W	36061 Haldane	8.47	0.26	1+ W
35154 1993 <i>FF</i> ₅₃	7.515	0.66	2 W	36078 1999 <i>RK</i> ₆₂	8.230	0.77	2 W
35165 Quebec	21.301	0.68	2 W	36081 1999 <i>RG</i> ₇₁	9.911	0.57	2 W
35179 1993 <i>TK</i> ₂₈	5.103	0.27	2 W	36090 1999 <i>RN</i> ₁₀₀	10.973	0.44	2 W
35188 1993 <i>VP</i> ₃	19.348	0.19	2 W	36091 1999 <i>RS</i> ₁₀₀	3.434	0.66	2 W
35194 1994 <i>ET</i> ₃	8.912	0.67	3	36092 1999 <i>RS</i> ₁₀₂	15.261	0.56	2 W
35203 1994 <i>PF</i> ₁₅	5.564	0.46	2 W	36102* 1999 <i>RA</i> ₁₁₆	8.28	0.90	2– W
35218 1994 <i>WU</i> ₂	11.56991		p Ns	36103 1999 <i>RL</i> ₁₁₆	446.531	0.39	2 W
35230* 1995 <i>GW</i>	5.19	0.18	2 W	36105 1999 <i>RF</i> ₁₁₈	9.493	0.66	2 W
35259* 1996 <i>HN</i> ₂₄	230.	0.45	2– T0	36109 1999 <i>RB</i> ₁₂₂	6.49	0.31	2 W
35286 Takaoakihiro	724.146	0.93	2 W	36123 1999 <i>RS</i> ₁₄₆	6.621	0.79	2 W
35291 1996 <i>TN</i> ₄₆	13.220	0.09	1 W	36125 1999 <i>RG</i> ₁₄₇	17.199	0.36	2 W
35307 1996 <i>XG</i> ₂₀	64.541	0.75	2 W	36148 1999 <i>RF</i> ₁₉₂	3.585	0.41	2 W
35323 1997 <i>CD</i> ₂₆	6.992	0.62	2 W	36170 1999 <i>RC</i> ₂₄₂	2.907	0.22	2 W
35340 1997 <i>GV</i> ₁₈	12.519	0.84	3–	36175 1999 <i>ST</i> ₆	11.626	0.50	2 W
35348 1997 <i>JO</i> ₁₈	5.536	0.58	2 W	36183 1999 <i>TX</i> ₁₆	5.6121	1.3	N
35352 Texas	2.54	0.61	2 W	36185 1999 <i>TG</i> ₂₅	27.428	0.18	2 W
35355 1997 <i>SB</i> ₂	21.478	0.40	2 W	36187* Travisbarman	8.65	0.55–0.65	3– W
35360 1997 <i>TY</i> ₁₁	2.896	0.11	2 W	36192 1999 <i>TC</i> ₈₉	8.263	0.54	2 W

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Planet	Period	Variation	Note	Planet	Period	Variation	Note
36218* 1999 <i>TK</i> ₂₂₀	3.87	0.50–0.51	2 W	37287 2000 <i>YM</i> ₁₀₁	U 23.	0.20	1+
36221 1999 <i>TS</i> ₂₄₄	7.808	0.51	2 W	37306 2001 <i>KW</i> ₄₆	5.621	0.10	2
36224 1999 <i>TE</i> ₂₆₈	11.914	0.36–0.69	2 W	37325 2001 <i>QG</i> ₇₈	5.341	0.10	1 W
36227 1999 <i>UR</i> ₅	321.975	0.07	1 W	37339 2001 <i>RQ</i> ₉₄	6.871	0.29	2 W
36236* 1999 <i>VV</i>	6.19	0.14	2+	37346 2001 <i>SU</i> ₁₅₄	3.26	0.48	3– W
36269 1999 <i>XB</i> ₂₁₄	6.777	0.30	2 W	37351 2001 <i>TE</i> ₃₆	24.	>0.5	1+
36281 2000 <i>CN</i> ₈₅	16.143	0.24	2 W	37445 3056 <i>P–L</i>		0.79	W
36284 2000 <i>DM</i> ₈	3.844	0.22–0.25	3	37451 4280 <i>P–L</i>	3.11	0.33	2 W
36294 2000 <i>GS</i> ₁₅₂	7.609	0.22	2 W	37504 3052 <i>T–2</i>	3.16	0.16	1 W
36298 2000 <i>JF</i> ₁₀	82.	0.75	2– T?	37506 3107 <i>T–2</i>	5.044	0.62	2 W
36303 2000 <i>JM</i> ₅₄	S 4.93652		p Ns	37519 Amphios	50.93	0.30	2+
36316 2000 <i>LC</i> ₁₂	56.5	1.22	2 T	37526 5721 <i>T–3</i>	5.249	0.77	2 W
36324* 2000 <i>LT</i> ₂₇			HNW	37534 1980 <i>FL</i> ₄	5.293	0.51	2 W
36344* 2000 <i>NP</i> ₁₉	5.82	1.04	3 W	37546 1981 <i>ET</i> ₂₀	>24.	0.36	1
36349* 2000 <i>NZ</i> ₂₃	6.7	0.38–0.39	2+ W	37568 1989 <i>TP</i>	51.85	0.47	2
36367 2000 <i>OF</i> ₁₂	8.58		N	37569 1989 <i>UG</i>	6.858	0.97	2 W
36378 2000 <i>OL</i> ₁₉	4.3437	1.10	2	37586* 1991 <i>BP</i> ₂	900.	0.96	2 T0
36379 2000 <i>OA</i> ₂₄	3.21	0.15	2 A	37613 1993 <i>FE</i> ₄₀	7.622	1.01	2 W
36393 2000 <i>OM</i> ₄₂	16.309	0.49	2 W	37631 1993 <i>TT</i> ₂₇	6.242	0.68	2 W
36395 2000 <i>OS</i> ₄₂	12.546	0.50	2 W	37634 1993 <i>UZ</i>	82.0	0.70	2+ T0
36402* 2000 <i>OT</i> ₄₇	8.20	0.57–0.59	3– W	37635 1993 <i>UJ</i> ₁	600.	0.8	3 T0
36405* 2000 <i>OB</i> ₄₈	6.6	0.36–0.82	2+ W	37637 1993 <i>UZ</i> ₅	5.366	0.71	2 W
36429 2000 <i>PX</i> ₉	2.583	0.08	1 W	37655 Illapa	2.6556	0.08–0.11	3
36432 2000 <i>PQ</i> ₁₂	34.491	0.57	2 W	37672* 1994 <i>VC</i>			HNW
36439 2000 <i>PT</i> ₂₆	5.579	0.50	2	37694 1995 <i>WC</i> ₆	31.418	0.70	2 W
36484* 2000 <i>QD</i> ₃₇			HNW	37703* 1996 <i>CD</i> ₁	3.71	0.55	3 W
36487* 2000 <i>QJ</i> ₄₂	8.151	0.52–0.64	2 p s	37719 1996 <i>SG</i> ₆	2.309	0.22	2 W
36496 2000 <i>QK</i> ₄₉	5.31	0.35	3	37734 1996 <i>UR</i> ₃	7.014	0.31	2 W
36510 2000 <i>QM</i> ₇₁	7.189	0.53	2 W	37744 1996 <i>XU</i> ₁₄	35.51	0.73	3–
36514 2000 <i>QA</i> ₇₄	2.437	0.23	2 W	37750* 1997 <i>BZ</i>	5.15	0.25	2 HW
36516 2000 <i>QV</i> ₇₄	16.381	0.64	2 W	37751* 1997 <i>CH</i> ₁	5.68	0.08	2 W
36522 2000 <i>QZ</i> ₇₉	7.236	1.12	2 W	37754* 1997 <i>CX</i> ₁₅	2.93	0.27	2–
36524* 2000 <i>QS</i> ₈₀	4.262	0.39–0.40	2 W	37764 1997 <i>GT</i> ₃	7.669	0.49	2 W
36542 2000 <i>QZ</i> ₉₇	4.26	0.44	3 W	37766 1997 <i>GM</i> ₁₁	7.378	0.94	2 W
36570* 2000 <i>QC</i> ₁₂₁	6.214	0.64–0.77	2 W	37771 1997 <i>GQ</i> ₂₂	6.764	0.16	2 W
36605* 2000 <i>QT</i> ₁₄₂	3.33	0.21	2 W	37776 1997 <i>GW</i> ₂₈	42.409	0.78	2 W
36613 2000 <i>QW</i> ₁₄₅	97.291	0.78	2 W	37781 1997 <i>HB</i> ₁₃	5.656	0.56	2 W
36624 2000 <i>QA</i> ₁₅₇	8.531	0.20	2 W	37799 1997 <i>WC</i> ₃₁	8.956	1.07	2 W
36664* 2000 <i>QN</i> ₂₁₁	3.12	0.24	2 W	37801* 1997 <i>WO</i> ₄₇	37.50	>1.	2
36679 2000 <i>QH</i> ₂₃₁	4.289	0.56	2 W	37835 1998 <i>BC</i> ₄₄	8.459	0.30	2 W
36680 2000 <i>RK</i> ₁	6.073	0.97	2 W	37854 1998 <i>EY</i> ₁₁	2.112	0.08	1 W
36697 2000 <i>RC</i> ₁₇	28.602	0.35	2 W	37866* 1998 <i>FU</i> ₁₅			HNW
36713 2000 <i>RV</i> ₃₃	116.920	0.52	2 W	37882 1998 <i>FE</i> ₄₉	6.021	0.99	2 W
36721 2000 <i>RK</i> ₄₂	3.29	0.23	1 W	37892 1998 <i>FA</i> ₆₁	6.647	0.42	2 W
36727 2000 <i>RV</i> ₄₆	19.724	0.21	2 W	37906 1998 <i>FR</i> ₇₃	5.272	0.34	2 W
36731 2000 <i>RR</i> ₅₀	7.494	0.10	1 W	37928 1998 <i>FO</i> ₁₂₁	3.05	0.12	2 W
36737 2000 <i>RP</i> ₆₀	2.582	0.08	1 W	37947* 1998 <i>HJ</i> ₂₀	5.985	0.30–0.31	2 W
36767 2000 <i>RG</i> ₉₂	5.123	0.10	1 W	37951 1998 <i>HE</i> ₄₂	8.719	0.44	2 W
36804 2000 <i>SX</i> ₆₁	5.657	0.78	2 W	37957 1998 <i>HJ</i> ₅₄	3.431	0.44	2 W
36865 2000 <i>SQ</i> ₁₄₆	9.616	0.19	2 W	37959* 1998 <i>HM</i> ₆₂	6.265	0.81–0.88	2 W
36874 2000 <i>SF</i> ₁₅₁	3.297	0.07	1 W	37976* 1998 <i>HC</i> ₁₁₈	13.703	0.51–0.56	2 W
36877 2000 <i>SX</i> ₁₅₂	4.80	0.19	2 W	38000 1998 <i>KK</i> ₃₅	4.485	0.62	2 W
36886 2000 <i>SV</i> ₁₆₁	7.03	0.38	1 W	38001* 1998 <i>KM</i> ₃₇	5.61	0.67–0.87	2 W
36893* 2000 <i>SA</i> ₁₇₀			HNW	38012 1998 <i>KE</i> ₅₄	2.67	0.15	2 W
36896 2000 <i>SQ</i> ₁₇₁	56.741	0.46	2 W	38025 1998 <i>QF</i>	13.301	0.27	2 W
36897 2000 <i>SB</i> ₁₇₂	3.480	0.17	2 W	38047 1998 <i>TC</i> ₃	3.762	0.54–0.78	3
36936* 2000 <i>SF</i> ₂₂₇	6.525	0.49–0.56	2 W	38048 1998 <i>UL</i> ₁₈	30.0	0.15	1
36944 2000 <i>SD</i> ₂₄₉	S 6.09677		p Ns	38050* 1998 <i>VR</i> ₃₈	18.854	0.09–0.37	3
36985 2000 <i>SH</i> ₃₄₉	5.42	0.10	2 W	38052 1998 <i>XA</i> ₇	8.21	0.63	2 W
37023 2000 <i>UD</i> ₂	5.442	0.35	2 W	38061 1999 <i>DJ</i> ₁	47.022	0.55	2 W
37031* 2000 <i>UD</i> ₈	15.230	0.32–0.39	2 W	38063 1999 <i>FH</i>	990.	0.55	2 T?
37033 2000 <i>UX</i> ₈	8.033	0.48	2 W	38064 1999 <i>FZ</i> ₁₀	3.672	0.09	1 W
37040* 2000 <i>UP</i> ₂₂	4.305	0.16–0.22	2 W	38071* 1999 <i>GU</i> ₃	216.	1.40–1.50	3 T?
37071 2000 <i>UY</i> ₅₁	4.010	0.40	2 W	38100 1999 <i>JM</i> ₁₄	7.269	0.40	2 W
37076 2000 <i>UK</i> ₅₄	8.506	0.38	2 W	38101 1999 <i>JE</i> ₁₅	56.646	0.89	2 W
37088 2000 <i>UE</i> ₇₀	3.359	0.38	2 W	38108 1999 <i>JB</i> ₂₄	2.449	0.11	2 W
37105 2000 <i>UA</i> ₁₀₁	4.214	0.63	2 W	38140 1999 <i>JX</i> ₅₈	14.476	0.64	2 W
37106 2000 <i>UC</i> ₁₀₁	188.465	0.69	2 W	38156 1999 <i>JQ</i> ₇₁	5.681	0.61	2 W
37112* 2000 <i>UG</i> ₁₀₄	4.05	0.20	2+ W	38167* 1999 <i>JU</i> ₈₈	2.76	0.18	1+
37125* 2000 <i>VP</i> ₁₂	4.23	0.49	3– W	38176* 1999 <i>JR</i> ₁₁₉	5.27	0.62–0.73	3– W
37139 2000 <i>VH</i> ₃₈	28.925	0.10	1 W	38180* 1999 <i>JR</i> ₁₂₃	6.53	0.78–0.79	3 W
37142 2000 <i>VK</i> ₄₁	47.068	0.70	2 W	38212 1999 <i>NM</i> ₅	4.669	0.63	2 W
37163 Huachuclab	5.967	0.80	2 W	38222 1999 <i>NP</i> ₃₁		0.50	W
37184* 2000 <i>WC</i> ₅₃	7.87	0.39	2 W	38231 1999 <i>NF</i> ₅₄	44.86	0.28	2 W
37201* 2000 <i>WS</i> ₉₄			HNW	38238* Holíč	11.71	0.42–0.57	2 W
37212 2000 <i>WO</i> ₁₂₆	108.218	1.04	2 W	38264 1999 <i>RC</i> ₂₂	13.908	0.50	2 W
37224 2000 <i>WH</i> ₁₄₂	4.770	0.26	2 W	38268 Zenkert	6.	0.55	2–
37274 2000 <i>XO</i> ₄₂	9.035	0.26	3	38270 Wettzell	8.28	0.52	2 W
37283 2000 <i>YA</i> ₇₁	3.242	0.27	2 W	38296* 1999 <i>RD</i> ₈₇	5.16	0.79	3– W
37285 2000 <i>YJ</i> ₇₈	3.094	0.07	1 W	38310 1999 <i>RH</i> ₁₀₅	8.866	0.37	2 W

MINOR PLANET LIGHTCURVE PARAMETERS

Planet	Period	Variation	Note	Planet	Period	Variation	Note
38311 1999 <i>RV</i> ₁₀₆	25.626	0.50	2 W	39137 2000 <i>WX</i> ₆₂	3.742	0.60	2 W
38325 1999 <i>RD</i> ₁₂₈	15.749	0.69	2 W	39138 2000 <i>WU</i> ₆₈	14.462	0.66	2 W
38333 1999 <i>RE</i> ₁₃₂	3.524	0.42	2 W	39145* 2000 <i>WU</i> ₉₀	3.43	0.21	2- W
38339* 1999 <i>RH</i> ₁₃₇	3.738	0.27-0.30	2 W	39148 2000 <i>WM</i> ₉₃		0.15	
38342* 1999 <i>RT</i> ₁₃₉			HNW	39196 2000 <i>WN</i> ₁₉₁	9.080	0.52	2 W
38350 1999 <i>RS</i> ₁₄₉	4.928	0.45	2 W	39197 2000 <i>XA</i>	5.221	0.72	2 W
38405 1999 <i>RS</i> ₂₀₂	8.831	0.37	2 W	39199 2000 <i>XN</i> ₇	7.727	0.48	2 W
38426 1999 <i>RT</i> ₂₃₀	34.962	0.47	2 W	39214 2000 <i>XG</i> ₄₂	6.243	0.54	2 W
38436* 1999 <i>RS</i> ₂₄₁			HNW	39218 2000 <i>YY</i> ₃	54.444	0.99	2 W
38453 1999 <i>TU</i> ₁	6.124	0.79	2 W	39231 2000 <i>YZ</i> ₃₈	4.686	0.52	2 W
38454 Boroson	138.816	0.85	2 W	39233 2000 <i>YZ</i> ₄₆	3.321	0.39	2 W
38465 1999 <i>TL</i> ₂₈	13.400	0.51	2 W	39240 2000 <i>YZ</i> ₆₉	105.	1.6	2- TOW
38490* 1999 <i>TA</i> ₁₁₇	2.96	0.27	3 W	39246 2000 <i>YU</i> ₈₁	2.987	0.31	2 W
38499 1999 <i>TT</i> ₁₆₁	8.584	0.54	2 W	39263 2000 <i>YK</i> ₁₃₉	6.099	0.65	2 W
38516 1999 <i>TQ</i> ₂₄₈	5.047	0.36	2 W	39270* 2001 <i>AH</i> ₁₁	82.191	0.14	2- HAW
38530* 1999 <i>UY</i> ₁₄	4.03	0.46	3 W	39283 2001 <i>BN</i> ₄₅	2.87	0.11	2 W
38533 1999 <i>UQ</i> ₃₃	20.7	0.62	2 W	39286* 2001 <i>CX</i> ₆	8.421	0.50	2+ HW
38540 Stevens	6.583	0.60	2 W	39289* 2001 <i>CT</i> ₂₈	19.062	1.04	2+ HW
38541 Rustichelli	5.898	0.47	2 W	39293 2001 <i>DQ</i> ₁₀	2.97	0.15	1 W
38559 1999 <i>VC</i> ₁₁₅	13.950	0.39	2 W	39297 2001 <i>FE</i> ₅₃	6.91	0.33	2 W
38568 1999 <i>VE</i> ₁₈₄	9.120	0.62	2 W	39304* 2001 <i>QX</i> ₇₇	7.28	0.66	1 DAW
38574* 1999 <i>WS</i> ₄	7.085	0.22	2 HW	39316 2001 <i>UH</i> ₈₀	4.165	0.41	2 W
38575 1999 <i>XH</i> ₂	4.551	0.44	2 W	39317* 2001 <i>UU</i> ₁₆₈	86.895	0.2 -0.75	2 W
38593 1999 <i>XF</i> ₁₆₆	16.849	0.57	2 W	39319 2001 <i>VT</i> ₃₅	16.098	0.62	2 W
38605 1999 <i>YV</i> ₁₀	5.474	0.45	2 W	39326 2001 <i>XL</i> ₃₇	31.258	0.48	2 W
38617 2000 <i>AY</i> ₁₆₁	10.7	0.16	2- W	39339 2002 <i>AD</i> ₃₂	4.61	0.50	2 W
38628* Huya	5.28	0.02	2- B	39354 2002 <i>AX</i> ₁₄₈	5.337	0.73	2 W
38637 2000 <i>LL</i> ₃₅	2.974	0.29	2 W	39392* 4893 <i>P-L</i>	2.96	0.18	2 W
38653* 2000 <i>OT</i> ₂₂	4.95	0.69-0.77	2 W	39405 Mosigkau	4.99	0.40	2 W
38656 2000 <i>OR</i> ₄₅	7.052	0.66	2 W	39415 Janeausten		1.0	I
38663 2000 <i>OK</i> ₄₉	5.51	1.24	2- W	39420 Elizabethgaskell	105.	1.6	2- TOW
38665 2000 <i>OC</i> ₅₂	2.955	0.16	2 W	39431 5178 <i>T-2</i>	9.534	0.30	2 W
38678 2000 <i>PS</i> ₂₆	20.544	0.13	2 W	39489 1981 <i>EU</i> ₆	2.258	0.10	1 W
38694 2000 <i>QO</i> ₄₆	2.919	0.30	2 W	39492 1981 <i>EO</i> ₁₀	6.986	0.84	2 W
38701 2000 <i>QB</i> ₆₆	195.141	0.48	2 W	39494 1981 <i>EM</i> ₁₁	7.353	0.33	2 W
38706 2000 <i>QP</i> ₈₃	7.848	0.41	2 W	39546 1992 <i>DT</i> ₅	1167.360	0.80	2 W
38707 2000 <i>QK</i> ₈₉	6.1509	0.36	3- W	39552 1992 <i>EY</i> ₇	4.179	0.42	2 W
38713 2000 <i>QJ</i> ₁₁₆	60.372	0.42	2 W	39556 1992 <i>GF</i> ₂	2.561	0.31	2 W
38718 2000 <i>QW</i> ₁₂₁	3.088	0.43	2 W	39560 1992 <i>PM</i> ₂	51.366	0.26	2 W
38741 2000 <i>QO</i> ₁₈₀	34.954	0.12	2 W	39566 Carllewis	6.220	0.09	1 W
38785 2000 <i>RR</i> ₄₃	10.098	0.35	2 W	39572 1993 <i>DQ</i> ₁		0.29	N
38798* 2000 <i>RB</i> ₅₄	12.495	0.64-0.88	2 W	39574 1993 <i>FM</i> ₅		0.97	W
38800 2000 <i>RA</i> ₅₅	5.792	0.55	2 W	39583* 1993 <i>FN</i> ₂₃	18.973	0.49-0.50	2 W
38809 2000 <i>RT</i> ₆₉	4.273	0.47	2 W	39588* 1993 <i>FZ</i> ₃₇	3.39	0.17	2+ W
38814* 2000 <i>RR</i> ₇₂	6.23	0.74	2 W	39589* 1993 <i>FL</i> ₇₅	5.55	0.84	2+ W
38831 2000 <i>RC</i> ₁₀₅	76.426	0.68	2 W	39596 1993 <i>QZ</i> ₈	195.119	0.38	2 W
38837* 2000 <i>SM</i> ₂₃	16.818	0.21-0.25	2 W	39618 1994 <i>LT</i>	140.	0.85	2 T
38867 2000 <i>SF</i> ₁₁₂	30.724	0.59	2 W	39628 1994 <i>PJ</i> ₂₄	7.532	0.78	2 W
38872 2000 <i>SP</i> ₁₁₆	6.27	0.32	2 W	39636 1995 <i>BQ</i> ₂	6.623	0.52	2 W
38879 2000 <i>SO</i> ₁₂₁	5.537	0.57	2 W	39655 Muneharuasada	3.481	0.22	2 W
38892 2000 <i>SS</i> ₁₄₈	12.105	0.29	2 W	39665 1995 <i>WU</i> ₆	4.418	0.22	3
38909 2000 <i>SQ</i> ₁₇₂	12.900	0.27	2 W	39672* 1996 <i>BF</i> ₁			HNW
38910 2000 <i>SA</i> ₁₇₈	6.397	0.22	2 W	39687 1996 <i>RL</i> ₃	402.470	0.10	1 W
38912 2000 <i>SK</i> ₁₇₉	7.095	0.64	2 W	39698* 1996 <i>TX</i> ₇	3.48	0.48	3 W
38923 2000 <i>SM</i> ₂₂₁	7.893	0.09	1 W	39704 1996 <i>TG</i> ₁₅	5.805	0.80	2 W
38929 2000 <i>SH</i> ₂₂₇	7.170	0.82	2 W	39705 1996 <i>TO</i> ₁₈	247.156	0.39	2 W
38939 2000 <i>SH</i> ₂₆₀	6.352	0.44	2 W	39716* 1996 <i>VD</i> ₂	6.328	0.63-0.83	2 W
38984 2000 <i>UZ</i> ₄	19.20	0.70	2 W	39741 Komm	5.95	0.83	3
38987* 2000 <i>UB</i> ₈			HNW	39745 1997 <i>AK</i> ₁₇	15.768	0.92	2 W
38990 2000 <i>UZ</i> ₁₇	136.185	0.70	2 W	39748 Guccini	5.459	0.51	2 W
38992 2000 <i>UN</i> ₂₀	6.921	0.61	2 W	39750* 1997 <i>CQ</i> ₂			HNW
38994* 2000 <i>UZ</i> ₂₁	5.495	0.56-0.67	2 W	39752 1997 <i>CB</i> ₅	13.974	0.24	2 W
38995 2000 <i>UJ</i> ₂₄	3.14	0.31	N	39763 1997 <i>FD</i> ₃	4.119	0.15	2 W
38998 2000 <i>UP</i> ₂₆	6.204	0.19	2 W	39783 1997 <i>LB</i> ₁	2.15	0.36	N
38999 2000 <i>UV</i> ₂₆	169.098	0.75	2 W	39791 Jameshesser	4.829	0.71	3
39008 2000 <i>UU</i> ₄₁	2.49	0.16	2 W	39796* 1997 <i>TD</i>	223.5	0.92-0.92	2 T?
39036 2000 <i>UQ</i> ₇₈	170.398	0.81	2 W	39797 1997 <i>TK</i> ₁₈	7.661	0.47	2 W
39043 2000 <i>UT</i> ₉₀	3.523	0.21	2 W	39806 1997 <i>WX</i> ₂	6.296	0.09	1 W
39049 2000 <i>UJ</i> ₉₇	6.372	0.61	2 W	39810 1997 <i>WQ</i> ₃₅	2.7737	0.12-0.18	3
39051 2000 <i>UB</i> ₉₉	6.4	0.86	2 W	39819 1997 <i>YE</i> ₁₀	2.641	0.17	2 W
39052 2000 <i>UL</i> ₉₉	6.661	0.69	2 W	39828 1998 <i>BH</i> ₄	14.2	0.13	1 A
39058 2000 <i>UM</i> ₁₀₄	9.064	0.28	1 5	39829 1998 <i>BS</i> ₄	5.331	0.71	2 W
39062 2000 <i>US</i> ₁₀₉	5.264	0.42	2 W	39830 1998 <i>BS</i> ₆	12.118	0.64	2 W
39066 2000 <i>US</i> ₁₁₂	15.208	0.58	2 W	39864 Poggiali	8.36	0.44	2 W
39076 2000 <i>VL</i> ₂₂	5.2	0.35	N	39881 1998 <i>EK</i> ₁₁	59.787	0.54	2 W
39086 2000 <i>VG</i> ₄₁	6.11	0.20	2 W	39890 Bobstephens	9.55	0.20	2
39087 2000 <i>VN</i> ₅₀	18.75	0.7	1	39909* 1998 <i>FM</i> ₃₆	4.66	0.85	3- W
39088 2000 <i>VO</i> ₅₀	5.373	0.60	2 W	39916 1998 <i>FH</i> ₄₇	7.273	0.75	2 W
39118 2000 <i>WD</i> ₃₅	5.226	0.62	2 W	39929 1998 <i>FZ</i> ₇₁	4.033	0.38	2 W
39132 2000 <i>WU</i> ₅₈	20.663	0.69	2 A	39936* 1998 <i>FZ</i> ₈₅	4.16	0.41	2 W

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Planet	Period	Variation	Note	Planet	Period	Variation	Note
39979 1998 <i>HT</i> ₁₂	8.103	0.26	2 W	40717 1999 <i>SC</i> ₂	3.436	0.22	2 W
39991 1998 <i>lochroma</i>	3.440	0.37	3	40776 1999 <i>TA</i> ₂₁	3.098	0.40	2 W
40002 1998 <i>HS</i> ₈₉	6.242	0.69	2 W	40779 1999 <i>TY</i> ₂₅	16.178	0.33	2 W
40003 1998 <i>HW</i> ₉₂	6.842	0.12	1 W	40791 1999 <i>TO</i> ₃₃	3.133	0.15	1 W
40036 1998 <i>KT</i> ₁₉	6.67	0.59	2 W	40797 1999 <i>TM</i> ₃₇	8.722	0.25	2 W
40071* 1998 <i>KL</i> ₅₉	7.462	0.31–0.84	2 W	40806 1999 <i>TX</i> ₄₁	6.41500		S p Ns
40080 1998 <i>MY</i> ₉	14.243	0.54	2 W	40855 1999 <i>TG</i> ₁₀₈	11.783	0.24	2 W
40091* 1998 <i>MH</i> ₄₁	39.275	0.66–0.68	2 W	40876 1999 <i>TH</i> ₁₂₃	4.710	0.35	2 W
40104 1998 <i>QE</i> ₄	4.475	0.60	2 p s	40880* 1999 <i>TA</i> ₁₂₅	9.32	0.50	2 W
40105* 1998 <i>QL</i> ₄	4.21	0.31	2 W	40890 1999 <i>TE</i> ₁₃₃	5.229	0.28	2 W
40146 1998 <i>QR</i> ₇₁	8.047	0.46	2 W	40891* 1999 <i>TH</i> ₁₃₆	2.916	0.23–0.25	2 W
40165 1998 <i>QP</i> ₁₀₂	7.419	0.43	2 W	40893 1999 <i>TL</i> ₁₃₈	112.954	0.35	2 W
40170 1998 <i>RK</i>	7.614	0.43	2 W	40901 1999 <i>TG</i> ₁₄₃	14.114	0.46	2 W
40203 1998 <i>SP</i> ₂₇	5.448	0.37–0.38	3	40903 1999 <i>TB</i> ₁₄₄	8.699	0.39	2 W
40206* Lhenice			HNW	40921* 1999 <i>TR</i> ₁₇₁	6.662	0.35	2+
40228* 1998 <i>TR</i> ₁	3.40	0.23–0.28	2 W	40941 1999 <i>TS</i> ₂₁₁	5.319	0.26	2 W
40229 1998 <i>TO</i> ₃	2.664	0.12	3–	40998 1999 <i>US</i> ₇	2.924	0.41	2 W
40231 1998 <i>TS</i> ₆	36.261	0.73	2 W	41005* 1999 <i>UJ</i> ₁₃	5.55	0.99	3–
40234 1998 <i>UG</i> ₄	4.007	0.66	2 W	41006 1999 <i>UM</i> ₁₃	3.33	1.04	2 W
40237 1998 <i>VM</i> ₆	160.291	0.22	2 W	41012* 1999 <i>UD</i> ₁₇	6.334	0.28–0.29	2 W
40250 1998 <i>XG</i> ₁₆	20.90	0.32	2	41015 1999 <i>UB</i> ₂₄	24.565	0.25	2 W
40254* 1999 <i>BB</i> ₂₆	18.82	0.18	2– W	41039 1999 <i>UX</i> ₅₆	246.770	0.82	2 W
40263* 1999 <i>FQ</i> ₅	28.00	0.27		41042 1999 <i>VB</i> ₂	20.384	0.88	2 W
40267* 1999 <i>GJ</i> ₄	4.9567	0.67–1.11	3	41044 1999 <i>VW</i> ₆	2.734	0.21	3
40273 1999 <i>JS</i> ₇	2.763	0.04	1 W	41047 1999 <i>VP</i> ₇	7.848	0.62	2 W
40278 1999 <i>JC</i> ₃₄	4.845	0.12	2 W	41051* 1999 <i>VR</i> ₁₀	4.04	0.55	2+
40279 1999 <i>JD</i> ₃₅	6.656	0.76	2 W	41070 1999 <i>VS</i> ₃₄	3.482	0.16	2 W
40282 1999 <i>JD</i> ₄₈	7.740	0.82	2 W	41076 1999 <i>VH</i> ₄₃	12.461	0.99	2 W
40284* 1999 <i>JE</i> ₅₂			HNW	41079 1999 <i>VP</i> ₄₅	12.458	0.76	2 W
40287 1999 <i>JS</i> ₆₁		0.62	W	41080 1999 <i>VX</i> ₄₅	5.499	0.14	2 W
40314 1999 <i>KR</i> ₁₆	11.7	0.12–0.18	2	41106 1999 <i>VL</i> ₆₉	7.867	0.22	2 W
40319 1999 <i>LR</i> ₁₁	2.745	0.11	2 W	41185 1999 <i>VJ</i> ₂₀₀	4.97	0.39	1+
40321 1999 <i>LA</i> ₂₁	5.287	0.99	2 W	41204 1999 <i>WX</i> ₈	38.227	0.55	2 W
40326 1999 <i>MA</i>	6.481	>0.9	2	41210 1999 <i>WN</i> ₁₈	2.232	0.07	1 W
40329* 1999 <i>ML</i>	47.0	0.40	2	41223 1999 <i>XD</i> ₁₆	32.52	0.48	3–
40331* 1999 <i>MS</i> ₁	4.481	0.51–0.52	2 W	41247 1999 <i>XQ</i> ₃₉	3.757	0.54	2 W
40359 1999 <i>NT</i> ₂₀	3.471	0.27	2 W	41249* 1999 <i>XJ</i> ₄₀	11.093	0.32–0.36	2 W
40360 1999 <i>NE</i> ₂₁	6.295	0.94	2 W	41250 1999 <i>XA</i> ₄₁	8.641	0.90	2 W
40366 1999 <i>NF</i> ₂₇	8.486	1.06	2 W	41276 1999 <i>XG</i> ₈₃	5.12	0.84	2 W
40370* 1999 <i>NZ</i> ₂₈	7.38	0.88	3– W	41288 1999 <i>XD</i> ₁₀₇	4.36	0.36	3–
40383 1999 <i>NW</i> ₄₇	8.182	0.07	1 W	41290 1999 <i>XB</i> ₁₀₈	7.365	0.39	2 W
40402 1999 <i>NY</i> ₆₄	9.443	0.52	2 W	41308 1999 <i>XA</i> ₁₅₄	5.040	0.16	2 W
40404 1999 <i>OB</i>	2.696	0.08	1 W	41313 1999 <i>XD</i> ₁₆₈	16.414	0.49	2 W
40408 1999 <i>RO</i> ₂	9.217	0.43	2 W	41327 1999 <i>XD</i> ₂₁₇	5.104	0.37	2+
40418 1999 <i>RK</i> ₁₉	16.903	0.10	1 W	41347 2000 <i>AR</i> ₂₂	8.224	0.64	2 W
40429 1999 <i>RL</i> ₂₇	>24.	>0.1	1	41358 2000 <i>AJ</i> ₅₄	4.891	0.81	2 W
40453 1999 <i>RX</i> ₃₈	17.442	0.51	2 W	41362 2000 <i>AJ</i> ₈₁	3.931	0.67	2 W
40456 1999 <i>RV</i> ₄₁	11.03	0.52	2 W	41369 2000 <i>AG</i> ₁₀₀	6.124	0.54	2 W
40459 Rektorys	38.034	0.74	2 W	41371* 2000 <i>AB</i> ₁₀₁	13.847	0.55–0.62	2 W
40462 1999 <i>RC</i> ₄₄	8.643	0.36	2 W	41375 2000 <i>AD</i> ₁₀₂	5.181	0.50	2 W
40463 Frankkameny	56.555	0.51	2 W	41393 2000 <i>AV</i> ₁₅₁	5.30	0.09	2–
40468 1999 <i>RF</i> ₄₆	11.118	0.89	2 W	41396* 2000 <i>AG</i> ₁₇₅	2.779	0.22–0.23	2 W
40478 1999 <i>RT</i> ₅₄	3.88673		p Ns	41397 2000 <i>AS</i> ₁₇₅	6.507	0.31	2 W
40491* 1999 <i>RJ</i> ₆₈	3.89	0.18	2– W	41405 2000 <i>AS</i> ₁₈₇	4.898	0.36	2 W
40496 1999 <i>RD</i> ₇₆	6.536	0.51	2 W	41424 2000 <i>CK</i> ₄₀	48.0	0.35	2 TO
40497 1999 <i>RR</i> ₇₈	5.896	0.41	2 W	41434 2000 <i>GB</i> ₈₂	4.132	0.17	3–
40501 1999 <i>RM</i> ₈₂	217.907	0.59	2 W	41435 2000 <i>GQ</i> ₈₉	8.727	0.47	2 W
40511* 1999 <i>RE</i> ₈₈	1.96	1.04	3– W	41437 2000 <i>GT</i> ₁₂₂	2.991	0.06	1 W
40512 1999 <i>RP</i> ₈₈	8.44	0.25	2– W	41443 2000 <i>JD</i> ₇₃	193.107	0.59	2 W
40520 1999 <i>RG</i> ₉₅	3.211	0.41	2 W	41453 2000 <i>MJ</i> ₄	6.173	0.40	2 W
40532 1999 <i>RY</i> ₁₀₀	17.948	0.37	2 W	41454 2000 <i>MQ</i> ₅	7.609	0.51	2 W
40543 1999 <i>RZ</i> ₁₀₇	8.421	0.47	2 W	41467 2000 <i>OG</i> ₂₉	6.8	0.80	2 A
40559 1999 <i>RO</i> ₁₁₈	4.81	0.30	1	41476 2000 <i>PC</i> ₁₄	4.665	0.61	2 W
40563 1999 <i>RZ</i> ₁₂₂	5.534	0.69	2 W	41503 2000 <i>QG</i> ₁₄₈	42.81	1.00	2+ TO
40573 1999 <i>RE</i> ₁₃₀	4.318	0.28	2 W	41510 2000 <i>QU</i> ₁₇₁	>24.		N
40574 1999 <i>RO</i> ₁₃₀	5.346	0.48	2 W	41515 2000 <i>QL</i> ₁₈₁	8.291	0.43	2 W
40576 1999 <i>RM</i> ₁₃₃	22.679	0.33	2 W	41531* 2000 <i>RN</i> ₉	5.540	0.73–1.07	2 W
40582* 1999 <i>RC</i> ₁₃₇	4.16	0.86	2+ W	41532* 2000 <i>RO</i> ₉	5.856	0.24–0.31	2 W
40623 1999 <i>RO</i> ₁₇₀	4.022	0.32	2 W	41545 2000 <i>RA</i> ₄₃	6.283	0.58	3
40625 1999 <i>RJ</i> ₁₇₂	3.336	0.19	2 W	41554 2000 <i>RH</i> ₅₃	4.710	0.57	2 W
40651 1999 <i>RJ</i> ₁₈₉	10.829	0.44	2 W	41556 2000 <i>RC</i> ₅₄	3.368	0.33	2 W
40652 1999 <i>RP</i> ₁₈₉			W	41561 2000 <i>RQ</i> ₆₆	2.098	0.08	1 W
40654 1999 <i>RH</i> ₁₉₁	6.62	0.77	2 W	41577 2000 <i>SV</i> ₂	34.59	0.37	2
40656 1999 <i>RY</i> ₁₉₁	14.931	0.42	2 W	41588* 2000 <i>SC</i> ₄₆	5.8325	0.41–0.43	3
40664 1999 <i>RF</i> ₁₉₆	9.61	0.38	2	41609 2000 <i>SR</i> ₁₁₇	259.855	0.07	1 W
40682 1999 <i>RM</i> ₂₁₁	3.300	0.26	2 W	41614 2000 <i>SX</i> ₁₄₅	5.032	0.60	2 W
40683 1999 <i>RB</i> ₂₁₃	2.545	0.12	2 W	41639 2000 <i>SD</i> ₂₂₇	7.087	0.59	2 W
40701 1999 <i>RG</i> ₂₃₅	3.63	1.2	3–	41652 2000 <i>SA</i> ₂₉₄	14.532	0.48	2 W
40709 1999 <i>RW</i> ₂₄₂	14.536	0.34	2 W	41653 2000 <i>SC</i> ₂₉₄	2.007	0.08	1 W
40716 1999 <i>SL</i>	11.704	0.23	2 W	41660 2000 <i>SV</i> ₃₆₂	77.2	0.65	2+ TO

MINOR PLANET LIGHTCURVE PARAMETERS

Planet	Period	Variation	Note	Planet	Period	Variation	Note
41672 2000 <i>TX</i> ₃₆	31.8	0.06	1	42623 1998 <i>FT</i> ₂₇	5.581	0.38	2 W
41689* 2000 <i>UW</i> ₁₈				42642 1998 <i>FQ</i> ₆₆	3.647	0.18	2 W
41699 2000 <i>UT</i> ₄₆	4.601	0.28	2 W	42644* 1998 <i>FE</i> ₆₇	>16.	>0.3	2- W
41714 2000 <i>UO</i> ₇₂	9.415	0.77	2 W	42653* 1998 <i>FE</i> ₈₈	5.495	0.81-0.88	2 W
41716* 2000 <i>UP</i> ₇₆	10.00	0.26	2- W	42655 1998 <i>FU</i> ₁₀₈	5.168	0.64	2 W
41730 2000 <i>UF</i> ₉₆	18.224	0.61	2 W	42662 1998 <i>FQ</i> ₁₃₃	2.628	0.15	2 W
41736 2000 <i>UN</i> ₁₀₂	3.823	0.15	2 W	42695 1998 <i>KM</i> ₅₄	16.058	0.57	2 W
41778 2000 <i>VB</i> ₅₀	8.553	0.46	2 W	42700 1998 <i>MO</i> ₁₀	7.381	0.40	2 W
41789 2000 <i>VW</i> ₆₀	8.932	0.91	2 W	42741* 1998 <i>RW</i> ₆₅	5.05	0.49	3 W
41793* 2000 <i>WW</i> ₆	2.94	0.27	2 W	42811 1999 <i>JN</i> ₈₁	3.902	0.14-0.15	3
41797 2000 <i>WN</i> ₁₈	10.144	0.39	2 W	42835 1999 <i>NS</i> ₅₆	2.49	0.17	2+
41811 2000 <i>WK</i> ₃₅	7.482	0.78	2 W	42849 Podjavorinska	6.123	0.34	2 W
41814 2000 <i>WP</i> ₃₆	11.595	0.58	2 W	42866 1999 <i>RJ</i> ₁₀₄	42.227	0.11	2 W
41832* 2000 <i>WB</i> ₅₈	12.361	0.61-0.73	2 W	42870* 1999 <i>RM</i> ₁₂₀	4.30	0.43-0.52	3- W
41847 2000 <i>WK</i> ₈₆	8.229	0.14	2 W	42891 1999 <i>RH</i> ₁₆₉	5.154	0.32	2 W
41852 2000 <i>WN</i> ₈₇	7.707	0.34	2 W	42904* 1999 <i>RV</i> ₂₀₂	4.64	0.76-0.85	2 W
41867 2000 <i>WB</i> ₉₉	29.581	0.40	2 W	42909* 1999 <i>RH</i> ₂₁₈	5.49	0.81	3- W
41869* 2000 <i>WK</i> ₉₉	2.59	0.18	1+ W	42915 1999 <i>RD</i> ₂₃₂	5.504	0.64	2 W
41874 2000 <i>WY</i> ₁₀₀	5.890	0.40	2 W	42917 1999 <i>SU</i> ₁	13.731	0.55	2 W
41881* 2000 <i>WH</i> ₁₀₉	3.24	0.25-0.28	2 W	42918 1999 <i>SK</i> ₄	4.393	0.23	2 W
41883 2000 <i>WF</i> ₁₁₁	3.621	0.08	1 W	42920 1999 <i>SA</i> ₈	4.903	0.19	2 W
41916 2000 <i>WT</i> ₁₅₂	9.630	0.42	2 W	42923 1999 <i>SR</i> ₁₈	8.392	1.20	3 p
41917 2000 <i>WC</i> ₁₅₃	412.631	0.09	1 W	42929 Francini	3.530	0.10	1 W
41919 2000 <i>WW</i> ₁₅₆	10.964	0.30	2 W	42930 1999 <i>TM</i> ₁₁	3.573	0.28	2 W
41953 2000 <i>XK</i> ₁₆	6.014	0.49	2 W	42939 1999 <i>TJ</i> ₃₁	4.97	0.27	2 W
41964 2000 <i>XW</i> ₃₆	15.480	0.69	2 W	42946 1999 <i>TU</i> ₉₅	3.42	0.30	3-
41966 2000 <i>XU</i> ₃₇	15.906	0.37	2 W	42950 1999 <i>TF</i> ₁₀₁	7.672	0.76	2 W
41967 2000 <i>XE</i> ₃₉		0.55	W	42953* 1999 <i>TK</i> ₁₀₉	2.67	0.12	2 W
41971 2000 <i>YM</i> ₆	2.873	0.20	2 W	42970 1999 <i>TD</i> ₁₇₄	18.46	0.72	2 W
41976 2000 <i>YA</i> ₁₅	4.077	0.09	1 W	42978* 1999 <i>TL</i> ₂₁₉	5.118	0.33-0.34	2 W
42002 2000 <i>YU</i> ₄₇	11.71	0.87	2-	42979* 1999 <i>TR</i> ₂₂₀	3.498	0.38-0.56	2 W
42004 2000 <i>YJ</i> ₄₉	2.52	0.20	1	42985 1999 <i>TR</i> ₂₃₀	70.571	0.44	2 W
42024 2000 <i>YX</i> ₈₂	7.242	0.51	2 W	42993* 1999 <i>TP</i> ₂₇₀	3.818	0.34-0.49	2 W
42044 2000 <i>YF</i> ₁₀₂	12.944	0.19	2 W	43003* 1999 <i>UC</i> ₁₄	5.459	0.12	2
42048 2000 <i>YE</i> ₁₀₇	7.146	0.60	2 W	43005 1999 <i>UA</i> ₁₇	6.744	0.29	2 W
42061 2000 <i>YE</i> ₁₁₆	6.07	0.75	2 W	43029 1999 <i>VT</i> ₂₄	6.279	0.61	2 W
42075* 2001 <i>AL</i> ₃	6.76	0.43	3- W	43032* 1999 <i>VR</i> ₂₆	32.890	0.51-0.60	2
42114* 2001 <i>BH</i> ₄	10.94	0.28	2 W	43043 1999 <i>VN</i> ₄₉	6.532	0.53	2 W
42127 2001 <i>BT</i> ₁₅	17.043	0.41	2 W	43052 1999 <i>VJ</i> ₇₁	146.914	0.53	2 W
42130 2001 <i>BW</i> ₁₉	8.795	0.54	2 W	43064 1999 <i>VK</i> ₁₁₄	8.856	0.6	1
42151 2001 <i>BD</i> ₅₄	8.794	0.10	1 W	43076 1999 <i>VW</i> ₁₈₉	7.851	0.30	2 W
42158 2001 <i>BT</i> ₇₀	13.655	0.43	2 W	43098 1999 <i>XD</i> ₁₄	5.342	0.52	2 W
42179 2001 <i>CP</i> ₂₅	7.577	0.53	2 W	43101 1999 <i>XX</i> ₁₈	3.974	0.46	2 W
42189 2001 <i>CJ</i> ₃₃	28.166	0.69	2 W	43142 1999 <i>XQ</i> ₉₃	4.073	0.19	2 W
42195 2001 <i>DO</i> ₁₇	268.752	0.92	2 W	43152 1999 <i>XM</i> ₁₁₅	11.996	0.94	2 W
42218 2001 <i>DN</i> ₅₉	32.263	0.34	2 W	43157 1999 <i>XT</i> ₁₂₀	9.869	0.55	2 W
42244* 2001 <i>FH</i> ₆₅	3.71	0.20	2 W	43162 1999 <i>XE</i> ₁₂₆	161.003	0.64	2
42247* 2001 <i>FU</i> ₁₅₆	3.304	0.33-0.46	2 W	43163 1999 <i>XB</i> ₁₂₇	5.20660		p Ns
42256 2001 <i>OA</i> ₆₃	5.181	0.20	2 W	43166 1999 <i>XO</i> ₁₅₆	51.997	1.06	2 p
42259* 2001 <i>OD</i> ₈₁	4.826	0.31-0.32	2 W	43174 1999 <i>XF</i> ₁₈₀	>16.		N
42262 2001 <i>PE</i> ₆	6.269	0.79	2 W	43181 1999 <i>XY</i> ₂₀₆	17.059	0.82	2 W
42264* 2001 <i>QZ</i> ₃₀	9.77	0.99-1.20	2	43183 1999 <i>XK</i> ₂₁₃	3.28	0.46	2-
42265 2001 <i>QL</i> ₆₉	8.6	0.85	2	43198 2000 <i>AD</i> ₆₂	10.413	0.30	2 W
42267 2001 <i>QJ</i> ₈₁	3.1520	0.15	3	43203 2000 <i>AA</i> ₇₀	14.83	0.60	2 W
42271 2001 <i>QL</i> ₁₅₄	18.289	0.43	2 W	43204 2000 <i>AA</i> ₇₁	4.032	0.81	2 W
42282 2001 <i>SB</i> ₂₈₃	109.731	0.83	2 W	43248 2000 <i>BD</i> ₂₆	73.152	0.49	2 W
42286* 2001 <i>TN</i> ₄₁	77.9	0.44	2+	43259* Wangzhenyi	2.9362	0.23-0.26	3
42297 2001 <i>UL</i> ₇₃		0.76	W	43269* 2000 <i>DO</i> ₉₈	3.29	0.26	2 W
42301 2001 <i>UR</i> ₁₆₃		<0.08		43274* 2000 <i>ER</i> ₅₆	5.25	0.69	3 W
42306 2001 <i>VU</i> ₄₆	2.3651	0.20	NA	43286 2000 <i>EA</i> ₁₅₈	2.077	0.09	1 W
42307 2001 <i>VC</i> ₄₈	6.11	0.13	2 W	43291 2000 <i>FY</i> ₄₈	89.417	0.48	2 W
42314 2001 <i>VQ</i> ₁₂₁	9.4	1.	1+	43299* 2000 <i>GD</i> ₇₃	7.11	0.51	1 W
42355* Typhon	>5.	>0.15	2- B	43321* 2000 <i>JR</i> ₅₂	4.75	1.02	2- W
42367 2002 <i>CQ</i> ₁₃₄	47.74	0.71	2	43325 2000 <i>KY</i> ₅₀	2.738	0.05	1 W
42379* 2013 <i>P-L</i>	5.33	0.69-0.82	2 W	43331 2000 <i>PS</i> ₆	7.338	0.53	3
42454 4134 <i>T-3</i>	8.723	0.42	2 W	43339 2000 <i>RM</i> ₁₀	52.	0.23	2-
42467 1978 <i>VX</i> ₆	15.417	0.36	2 W	43359 2000 <i>UF</i> ₄₁	5.697	0.70	2 W
42474* 1981 <i>EJ</i> ₂₇	13.62	0.70	1 DAW	43423 2000 <i>XQ</i> ₄₁	61.501	0.56	2 W
42490* 1991 <i>SU</i>	7.953	0.54-0.78	2 W	43426* 2000 <i>YD</i> ₆	12.00	0.53	1 DAW
42496 1991 <i>XB</i> ₁	4.612	0.19	2 W	43463 2001 <i>AN</i> ₅	9.697	0.61	2 W
42500 1992 <i>RV</i> ₆	110.197	0.63	2 W	43464 2001 <i>AA</i> ₉	101.649	0.75	2 W
42511* 1993 <i>FD</i> ₇₇	4.39	0.35-0.43	2 W	43471* 2001 <i>AH</i> ₃₂	5.85	0.72	3-
42516 Oistrach	2.611	0.18	2 W	43472 2001 <i>AH</i> ₃₃	3.621	0.39	2 W
42526* 1994 <i>PA</i> ₃₆	10.420	0.25-0.28	2 W	43481 2001 <i>BC</i> ₁₇	14.496	0.16	2 W
42535 1995 <i>VN</i> ₉	2.37	0.1	1+	43483 2001 <i>BO</i> ₃₈	4.503	0.58	2 W
42549 1996 <i>HJ</i> ₁₇	4.453	0.72	2 W	43492* 2001 <i>CV</i>	5.08	0.84	2+
42573 1997 <i>AN</i> ₁	3.887	0.55	2 W	43498 2001 <i>CT</i> ₁₉	4.446	0.10	1 W
42600* 1997 <i>YF</i> ₁₀	7.7712	0.70-0.90	3 A	43526* 2001 <i>DD</i> ₃₇	8.017	0.58-0.93	2 W
42604 1998 <i>BT</i> ₁₅	3.420	0.19	2 W	43537 2001 <i>EF</i> ₂	3.76	0.26	1+
42612 1998 <i>EL</i> ₃	9.0	0.32	2-	43542* 2001 <i>EC</i> ₂₇	3.021	0.15-0.17	2 W

MINOR PLANET LIGHTCURVE PARAMETERS

Planet	Period	Variation	Note	Planet	Period	Variation	Note
43583 2001 <i>KR</i> ₅₉	3.0079	0.86	3	44827 1999 <i>TN</i> ₂₄₇	20.565	0.74	2 W
43595 2001 <i>QT</i> ₁₀₁	22.049	0.65	2	44834* 1999 <i>TE</i> ₂₅₆	5.479	0.63–0.89	2 W
43606 2001 <i>XQ</i> ₂	87.	1.3	2– T?	44858 1999 <i>UZ</i> ₁₃	2.044	0.09	1 W
43607 2001 <i>XO</i> ₄₈	4.924	0.65	2 W	44862 1999 <i>UM</i> ₁₅	>8.	>0.1	1–
43619* 2002 <i>CR</i> ₆₆	3.31	0.33	1+ W	44864 1999 <i>UJ</i> ₂₃	9.121	0.51	2 W
43645 2002 <i>EM</i> ₇₃	2.657	0.22	2 W	44872 1999 <i>UA</i> ₄₁	5.068	0.36	2 W
43656 2002 <i>ER</i> ₁₀₄	3.221	0.42	2 W	44873* 1999 <i>UF</i> ₄₁	2.728	0.21–0.24	2 W
43677 2002 <i>HN</i>	48.736	0.69	2 W	44874 1999 <i>UY</i> ₄₄	8.262	0.57	2 W
43689 2002 <i>JY</i> ₇₁	7.547	0.61	2 W	44881* 1999 <i>UJ</i> ₅₁	20.00	2.07	1 DAW
43692* 2160 <i>P–L</i>	3.46	0.16	2	44886 1999 <i>VF</i> ₁	5.831	0.10	1 W
43695 4079 <i>P–L</i>	4.511	0.59	2 W	44887 1999 <i>VF</i> ₅	4.664	0.38	2 W
43712 5054 <i>T–2</i>	62.824	0.35	2 W	44892 1999 <i>VJ</i> ₈	5.872	0.29	3
43751 Asam	5.819	0.76	2 W	44914 1999 <i>VB</i> ₂₇	42.397	0.86	2 W
43759 1986 <i>QW</i> ₂	68.154	0.10	1 W	44915 1999 <i>VR</i> ₂₇	15.961	0.59	2 W
43773 1989 <i>AJ</i>	7.553	0.07	1 W	44938* 1999 <i>VV</i> ₅₀	3.960	0.61–0.68	2 W
43800* 1991 <i>PP</i> ₁₃	6.51	0.36–0.40	3 W	44946* 1999 <i>VU</i> ₆₁	4.38	0.39	2– W
43807 1991 <i>RC</i> ₁₁	337.813	0.18	2 W	44954 1999 <i>VN</i> ₇₂	5.696	0.71	2 W
43821 1992 <i>RL</i> ₃	7.406	0.86	2 W	44957 1999 <i>VG</i> ₇₈	5.828	0.47	2 W
43867 1994 <i>PO</i> ₂₈	5.434	0.64	2 W	44959* 1999 <i>VL</i> ₈₂			HNW
43895 1995 <i>UC</i> ₄	4.847	0.46	2 W	44962 1999 <i>VL</i> ₈₇	56.236	0.55	2 W
43904 1995 <i>WO</i>	200.	0.05–0.34	2–	44984 1999 <i>VC</i> ₁₆₄	9.296	0.49	2 W
43922 1996 <i>CE</i> ₅	7.090	0.56	2 W	44997 1999 <i>VX</i> ₁₈₄	3.34	0.38	2 W
43934* 1996 <i>TC</i>	3.60	0.23–0.24	2 W	45008 1999 <i>VN</i> ₂₀₁	4.4		N
43941 1996 <i>YP</i>	5.374	0.67	2 W	45016* 1999 <i>WV</i> ₂	2.87	0.15–0.16	2 W
43944 1997 <i>AW</i> ₁	4.467	0.10	1 W	45041* 1999 <i>XE</i> ₁₀	4.66	0.31–0.57	3 W
43963* 1997 <i>EW</i> ₁₄	6.832	0.29–0.30	2 W	45042 1999 <i>XW</i> ₁₀	8.450	0.70	2 W
43991 1997 <i>MF</i> ₁₀	4.155	0.46	2 W	45052 1999 <i>XX</i> ₂₃	2.721	0.13	2 W
44002 1997 <i>ST</i> ₁	12.775	0.46	2 W	45053 1999 <i>XK</i> ₂₆	3.13	0.35	2 W
44006* 1997 <i>TF</i> ₁₇	2.345	0.19–0.21	2 W	45058* 1999 <i>XR</i> ₂₉	6.549	0.34–0.38	2 W
44016* Jimmypage	31.4	0.44	2	45068 1999 <i>XA</i> ₃₄	5.043	0.31	2 W
44028 1998 <i>BD</i> ₁	3.527	0.64	2 W	45073* Doyanrose	3.16	0.15–0.16	3–
44040 1998 <i>DA</i> ₃₅	3.994	0.24	2 W	45084* 1999 <i>XG</i> ₄₅	4.32	0.78	2 W
44060 1998 <i>FU</i> ₄₂		0.06		45092 1999 <i>XD</i> ₅₀	3.180	0.08	1 W
44077 1998 <i>FW</i> ₆₉	3.973	0.16	2 W	45102 1999 <i>XN</i> ₆₉	5.369	0.28	2 W
44080 1998 <i>FQ</i> ₇₁	9.692	0.78	2 W	45109 1999 <i>XZ</i> ₇₆	174.893	0.60	2 W
44139* 1998 <i>HZ</i> ₉₂			HNW	45115 1999 <i>XN</i> ₈₂	4.7178	0.20	3 W
44142* 1998 <i>HU</i> ₉₆	10.7918	1.17	3–	45123 1999 <i>XH</i> ₈₈	5.330	0.80	2 W
44217 Whittle	9.7	0.58	2	45130 1999 <i>XQ</i> ₉₁	5.324	0.76	2 W
44295* 1998 <i>QU</i> ₈₉	6.62	0.84	2+ W	45136 1999 <i>XO</i> ₉₄	15.562	0.39	2 W
44376* 1998 <i>SJ</i> ₄₈			HNW	45160* 1999 <i>XS</i> ₁₂₃	4.104	0.65–0.71	2 W
44400* 1998 <i>ST</i> ₉₇	10.522	0.69–0.89	2 W	45161 1999 <i>XX</i> ₁₂₃	9.034	0.85	2 W
44406 1998 <i>SU</i> ₁₂₇	57.930	0.54	2 W	45176 1999 <i>XQ</i> ₁₄₀	3.44	0.20	2+ W
44417 1998 <i>SS</i> ₁₄₆	7.632	0.80	2 p W	45179 1999 <i>XQ</i> ₁₄₄	7.203	0.50	2 W
44440 1998 <i>UM</i> ₁₅	2.965	0.27	2 W	45184 1999 <i>XL</i> ₁₅₅	28.617	0.27	2 W
44443 1998 <i>UY</i> ₁₉		0.05	N	45207 1999 <i>XH</i> ₁₇₅	8.538	0.28	2 W
44473 1998 <i>WB</i>	5.165	0.18	2 W	45209* 1999 <i>XT</i> ₁₇₈	11.9	0.19	2–
44503 1998 <i>XR</i> ₂₇	3.107	0.25	2 W	45215* 1999 <i>XB</i> ₁₈₃	8.621	0.62	3
44506 1998 <i>XS</i> ₃₉	3.258	0.19	2 W	45223 1999 <i>XF</i> ₂₀₀	4.903	0.24	2 W
44510* 1998 <i>XB</i> ₅₁	2.33	0.19	2– W	45250 1999 <i>YJ</i>	10.273	0.43	2 W
44518 1998 <i>XQ</i> ₈₆	3.590	0.17	2 W	45259* 2000 <i>AF</i> ₁	11.7	0.79–0.85	2+ AW
44530 Horáková	160.	2.68	1	45263 2000 <i>AD</i> ₅	14.18	0.60	2+ W
44532 1998 <i>YA</i> ₉	2.749	0.29	2 W	45270 2000 <i>AT</i> ₈	7.851	0.84	2 W
44533 1998 <i>YN</i> ₉	3.365	0.39	2 W	45276* 2000 <i>AO</i> ₁₂	3.744	0.53–0.57	2 W
44534 1998 <i>YZ</i> ₉	45.0	0.75	2 ADTOW	45289 2000 <i>AY</i> ₂₉	93.483	0.77	2 W
44544 1999 <i>AO</i> ₂₃	85.095	0.71	2 W	45297* 2000 <i>AN</i> ₃₈			HNW
44569 1999 <i>CG</i> ₁₃₃	5.514	0.54	2 W	45302 2000 <i>AX</i> ₄₆	9.911	0.28	2 W
44578* 1999 <i>GL</i> ₂₅	3.760	0.32–0.34	2 W	45303 2000 <i>AP</i> ₄₇	8.389	0.25	2 W
44579* 1999 <i>GR</i> ₂₅	4.60	0.67–0.87	3– W	45308* 2000 <i>AR</i> ₅₃			HNW
44581* 1999 <i>GB</i> ₄₀	4.73	0.75	3– W	45320 2000 <i>AT</i> ₆₃	11.111	0.78	2 W
44584 1999 <i>JO</i> ₂₁			W	45337 2000 <i>AK</i> ₈₃	7.686	0.55	2 W
44594 1999 <i>OX</i> ₃	9.26	0.11	2 1A	45340 2000 <i>AG</i> ₈₆	4.421	0.60	2 W
44598 1999 <i>PL</i> ₆	3.500	0.27	2 W	45349 2000 <i>AP</i> ₉₃	6.44	0.13	2 W
44600* 1999 <i>RU</i> ₁₀	6.211	0.81–1.09	3 p W	45358 2000 <i>AM</i> ₁₀₂	13.218	0.62	2 W
44612 1999 <i>RP</i> ₂₇	4.9070	0.43–0.49	3 p W	45392 2000 <i>AR</i> ₁₂₉	13.754	0.38	2 W
44627* 1999 <i>RN</i> ₇₁	6.36	0.90	2 W	45408 2000 <i>AO</i> ₁₄₂	5.385	0.28	2 W
44628 1999 <i>RQ</i> ₇₅	2.712	0.07	1 W	45436 2000 <i>AD</i> ₁₇₆	18.47	1.15	2
44644* 1999 <i>RY</i> ₁₁₄	9.527	0.63–0.73	2 W	45440* 2000 <i>AQ</i> ₁₇₇	6.539	0.20–0.30	2 W
44647 1999 <i>RA</i> ₁₂₉	5.964	0.66	2 W	45455* 2000 <i>AB</i> ₁₉₅	4.90	0.18	2– W
44665 1999 <i>RF</i> ₁₇₄	10.154	0.50	2 W	45465 2000 <i>AN</i> ₂₀₀	7.2	0.87	1
44673 1999 <i>RE</i> ₁₈₅	6.033	0.74	2 W	45510 2000 <i>BB</i> ₂₃	27.461	0.62	2 W
44681 1999 <i>RZ</i> ₁₉₅	17.337	0.20	2 W	45526 2000 <i>CG</i> ₄	77.932	0.79	2 W
44683 1999 <i>RR</i> ₁₉₇	103.785	0.72	2 W	45543 2000 <i>CQ</i> ₃₆	7.549	0.68	2 W
44686 1999 <i>RN</i> ₂₀₀	75.433	0.33	2 W	45553 2000 <i>CO</i> ₄₈	3.516	0.54	2 W
44694 1999 <i>RT</i> ₂₃₄	2.87	0.28	2 W	45560 2000 <i>CW</i> ₅₃	2.784	0.05	1 W
44742 1999 <i>TK</i> ₄₀	4.477	0.49	2 W	45566 2000 <i>CK</i> ₅₈	4.855	0.42	2 W
44760 1999 <i>TJ</i> ₁₁₄	26.6	0.1	1 W	45571 2000 <i>CZ</i> ₆₄	8.726	0.17	2 W
44763 1999 <i>TM</i> ₁₁₆	7.915	0.86	2 W	45576* 2000 <i>CD</i> ₇₅	10.248	0.48–0.50	2 W
44767* 1999 <i>TK</i> ₁₂₄	2.880	0.21–0.22	2 W	45601* 2000 <i>DE</i> ₅	3.38	0.23–0.32	3– W
44801* 1999 <i>TD</i> ₂₀₀	6.19	0.63	2 W	45603* 2000 <i>DC</i> ₁₈	3.61	0.28	1+ W
44813 1999 <i>TV</i> ₂₂₂	6.655	0.57	2 W	45610 2000 <i>DJ</i> ₄₈		0.52	W

MINOR PLANET LIGHTCURVE PARAMETERS

Planet	Period	Variation	Note	Planet	Period	Variation	Note
45628* 2000 <i>DD</i> ₉₉	3.48	0.31–0.39	2 W	46585* 1992 <i>RD</i> ₇	8.46	0.96	1 DAW
45636 2000 <i>EG</i> ₁₂	3.710	0.58	2 W	46587 1992 <i>UJ</i> ₁	45.189	0.82	2 W
45646 2000 <i>EE</i> ₄₅	5.26	0.41	2– A	46598 1993 <i>FT</i> ₂	4.8620	0.33	3
45659 2000 <i>EL</i> ₈₄	3.848	0.33	2 W	46616 1994 <i>AM</i> ₇	10.524	0.71	2 W
45660 2000 <i>EU</i> ₈₄	7.198	0.65	2 W	46620 1994 <i>EL</i> ₁	>20.	>0.2	2 W
45661 2000 <i>EX</i> ₈₄	2.615	0.20	3–	46622 1994 <i>EF</i> ₇	4.938	0.66	2 W
45667 2000 <i>EG</i> ₉₃	18.260	0.18	2 W	46623 1994 <i>GV</i> ₁₀	4.923	0.53	2 W
45671 2000 <i>EA</i> ₁₀₄	5.417	0.24	2 W	46626 1994 <i>PL</i> ₂₃	5.485	0.64	2 W
45672 2000 <i>EE</i> ₁₀₉	240.336	0.59	2 W	46629 1994 <i>PS</i> ₃₈		1.35	I
45686 2000 <i>EM</i> ₁₃₉	7.507	0.59	2 W	46639 1995 <i>BN</i> ₄	6.214	0.49	3–
45705 2000 <i>FD</i> ₃₁	11.092	0.52	2 W	46643 Yanase	5.852	0.58	2 W
45721* 2000 <i>GZ</i> ₄₂	6.00	0.64–0.71	2 W	46654 1995 <i>UB</i> ₈	3.5491	0.26	3
45733 2000 <i>GV</i> ₁₃₉	12.318	0.27	2 W	46656* 1995 <i>WT</i> ₆	12.31	0.17	2– W
45752 2000 <i>JY</i> ₇₀	361.985	0.48	2 W	46665 1996 <i>FD</i>	2.989	0.37	2 W
45766 2000 <i>LX</i> ₅	38.224	0.49	2 W	46672* 1996 <i>OA</i>	3.55	0.27–0.32	2+ W
45771 2000 <i>NE</i> ₅	8.069	0.84	2 W	46685 1997 <i>AG</i> ₁₃	10.868	0.53	2 W
45776 2000 <i>NZ</i> ₂₈	14.90	0.12	1 W	46690 1997 <i>AN</i> ₂₃	3.413	0.09	1 W
45810 2000 <i>QP</i> ₃₂	2.1	0.16	N	46714 1997 <i>HF</i> ₇		0.51	W
45837 2000 <i>RD</i> ₂₇	32.00	0.79	2 W	46721* 1997 <i>QW</i> ₃	8.28	0.91	1 W
45862 2000 <i>UQ</i> ₅₁		1.0	I	46725* 1997 <i>SS</i> ₁₃	8.14	0.19	2– W
45864 2000 <i>UO</i> ₉₇	5.13544		p Ns	46731 Prieurblanc	17.416	0.34	2 W
45876* 2000 <i>WD</i> ₂₇	3.87	0.11–0.12	2 W	46748 1998 <i>DN</i> ₂₃	2.698	0.50	1+ W
45878* 2000 <i>WX</i> ₂₉	3.9207	0.05–0.10	3 B?	46758* 1998 <i>FQ</i> ₅₉	3.13	0.41–0.49	2 W
45898* 2000 <i>XQ</i> ₄₉	5.417	0.88–1.14	3	46763 1998 <i>FE</i> ₇₉	4.537	0.06	1 W
45904 2000 <i>YV</i> ₂₉		0.64	W	46764 1998 <i>FE</i> ₉₅	7.906	0.64	2 W
45908 2000 <i>YE</i> ₅₁	54.151	0.55	2 W	46769 1998 <i>HJ</i> ₂	32.00	0.62	2 W
45921 2000 <i>YU</i> ₁₀₄	3.307	0.37	2 W	46784 1998 <i>HK</i> ₁₁₇	19.	0.27	2–
45924 2000 <i>YZ</i> ₁₀₈	4.984	0.89	2 W	46791 1998 <i>HW</i> ₁₄₉	7.186	0.66	2 W
45927* 2000 <i>YR</i> ₁₁₃	21.553	0.57–0.58	2 W	46800* 1998 <i>KH</i> ₂₇	4.14	0.18–0.26	2 W
45929 2000 <i>YP</i> ₁₁₆	6.77	1.28	3– W	46803 1998 <i>KL</i> ₃₃	>12.	>0.4	2–
45945 2001 <i>AM</i> ₁₇	39.543	0.24	2 W	46818* 1998 <i>MZ</i> ₂₄	2.779	0.20–0.26	3
45956 2001 <i>AG</i> ₄₁	4.606	0.22	2 W	46829 McMahon	2.6236	0.12	NAB
45978 2001 <i>BY</i> ₄₄	3.808	0.19	2 W	46831 1998 <i>QH</i>	4.287	0.50	2 W
45986* 2001 <i>BC</i> ₆₆	5.85	0.21	2– W	46833 1998 <i>QB</i> ₈	13.834	0.07	1 W
45991 2001 <i>BQ</i> ₇₀	2.88	0.13	1	46840 1998 <i>QZ</i> ₁₇	2.095	0.09	1 W
46001* 2001 <i>CG</i> ₁	11.16	0.27	1 DAW	46861 1998 <i>QJ</i> ₇₃	7.285	0.74	2 W
46033 2001 <i>DG</i> ₃₁	3.582	0.65	2 W	46868 1998 <i>QM</i> ₉₃	3.646	0.47	2 W
46037 2001 <i>DF</i> ₃₃	2.6865	0.23	3 B?	46869 1998 <i>QC</i> ₉₇	8.825	0.29	2 W
46053 Davidpatterson	5.0	0.4	2	46875 1998 <i>QD</i> ₁₀₄	88.734	0.47	2 W
46075 2001 <i>EK</i> ₃	9.585	0.54	2 W	46884 1998 <i>RY</i> ₁₆	10.650	0.63	2 W
46096 2001 <i>FB</i>	7.805	0.31	2 W	46899 1998 <i>RF</i> ₆₀	3.020	0.43	2 W
46101* 2001 <i>FK</i> ₃	6.44	0.54	3 W	46935 1998 <i>SL</i> ₆₅	7.238	0.25	2 W
46108 2001 <i>FW</i> ₁₈	3.06	0.20	2 W	46945 1998 <i>SB</i> ₁₀₇	13.	0.19	1
46125 2001 <i>FB</i> ₄₃	20.563	0.65	2 W	46953 1998 <i>SB</i> ₁₂₁	4.0	0.25	2–
46145 2001 <i>FC</i> ₆₃	56.662	0.09	1 W	46968 1998 <i>SJ</i> ₁₃₅	5.856	0.26	2 W
46165 2001 <i>FF</i> ₈₀	11.03	0.20	2 W	46983 1998 <i>SX</i> ₁₆₁	83.619	0.93	2 W
46169* 2001 <i>FY</i> ₈₇	4.588	0.52–0.75	2 W	46989 1998 <i>TO</i> ₅	9.0420	0.75	3
46186 2001 <i>FS</i> ₁₂₄	3.004	0.63	2 W	47017 1998 <i>VE</i> ₄	3.258	0.49	2 W
46234* 2001 <i>HK</i> ₉	5.870	0.49–0.51	2 W	47026 1998 <i>VS</i> ₂₁	5.12	0.26	1+ W
46242* 2001 <i>HQ</i> ₁₂	20.86	0.45	1 DAW	47035* 1998 <i>WS</i>	3.99	0.10–0.15	2 p A
46244 2001 <i>HU</i> ₁₅	5.013	0.43	2 W	47043 1998 <i>WX</i> ₃	4.676	0.76	2 W
46251 2001 <i>HO</i> ₃₁	14.542	0.55	2 W	47049 1998 <i>WT</i> ₁₉	5.255	0.31	2 W
46261 2001 <i>HA</i> ₄₇	4.774	0.50	2 W	47069 1998 <i>XC</i> ₇₃	784.520	0.38	2 W
46264 2001 <i>HB</i> ₅₀	2.542	0.38	2 W	47073 1998 <i>XP</i> ₉₅	4.656	0.59	2 W
46274 2001 <i>JU</i> ₃	10.798	0.26	2 W	47081 1998 <i>YV</i> ₉	7.46	0.20	2+ W
46304 2001 <i>OZ</i> ₆₂	2.655	0.10	2 W	47082 1998 <i>YA</i> ₁₅	2.961	0.38	2 W
46325 2001 <i>QZ</i> ₁₃₀	9.484	0.69	2 W	47095* 1999 <i>AQ</i> ₂₅	0.36	0.04	1–
46339 2001 <i>RU</i> ₈₁	4.180	0.60	2 W	47115 1999 <i>CH</i> ₆₂	11.556	0.22	2 W
46342* 2001 <i>SC</i> ₅₃	7.01	0.41	2 W	47116 1999 <i>CL</i> ₆₄	19.712	0.55	2 W
46352* 2001 <i>SZ</i> ₂₆₆	2.940	0.36–0.42	2 W	47119 1999 <i>CM</i> ₈₁	43.147	0.56	2 W
46361 2001 <i>TR</i> ₁₀₅	7.387	0.13	2 W	47127* 1999 <i>CJ</i> ₁₀₃	4.370	0.64–0.71	2 W
46376 2001 <i>XD</i> ₃	5.73569		p Ns	47141 1999 <i>HB</i> ₃	2.8614	0.14	3 B?
46436 2002 <i>LH</i> ₅	3.884	0.46–0.62	3	47143* 1999 <i>LL</i> ₃₁	3.32	0.28–0.36	3–
46438* 2002 <i>LZ</i> ₇			HNW	47149* 1999 <i>RX</i> ₃₄	9.50	0.50–0.55	3– W
46441 Mikepenston	11.783	0.42	2 W	47154* 1999 <i>RE</i> ₁₄₁	5.20	0.55–0.56	2 W
46451 3050 <i>P-L</i>	6.462	0.49	2 W	47171 1999 <i>TC</i> ₃₆	6.21	0.06	1 B
46452* 3097 <i>P-L</i>	20.447	0.56–0.63	2 W	47195 1999 <i>TG</i> ₁₇₉	2.68	0.11–0.11	2 W
46455 4054 <i>P-L</i>	89.899	0.62	2 W	47219 1999 <i>UU</i> ₄₁	10.553	0.19	2 W
46456 4140 <i>P-L</i>	5.197	0.63	2 W	47229 1999 <i>VT</i> ₂₇	47.168	0.52	2 W
46475 3204 <i>T-1</i>	3.327	0.04	1 W	47270 1999 <i>VE</i> ₁₃₈	4.061	0.59	2 W
46485* 2279 <i>T-2</i>	6.932	0.40–0.45	2 W	47271 1999 <i>VY</i> ₁₄₃	6.902	0.56	2 W
46506 3387 <i>T-3</i>	9.32	0.76	2 W	47320 1999 <i>XA</i> ₁₅	6.340	0.42	2 W
46530 1981 <i>EE</i> ₁₀	5.1	0.3	1+ W	47324 1999 <i>XN</i> ₂₂	5.201	0.54	2 W
46537* 1981 <i>EV</i> ₄₅	5.85	0.89	3– W	47330 1999 <i>XQ</i> ₃₁	178.065	0.80	2 W
46538* 1981 <i>UC</i> ₂₆	3.74	0.12	2– W	47332 1999 <i>XC</i> ₃₂	3.992	0.35	2 W
46539 Viktortikhonov	16.743	0.45	2 W	47334 1999 <i>XX</i> ₃₂	11.214	0.12	2 W
46558 1991 <i>GY</i> ₅	6.333	0.47	2 W	47335 1999 <i>XB</i> ₃₃	4.798	0.79	2 W
46559* 1991 <i>PC</i> ₁	5.168	0.56–0.64	3	47340 1999 <i>XK</i> ₃₉	40.00	0.79	2 W
46566 1991 <i>RW</i> ₂₁	2.074	0.06	1 W	47365 1999 <i>XY</i> ₈₂	6.208	0.27	2 W
46583 1992 <i>RW</i> ₃	8.519	0.27	2 W	47369* 1999 <i>XA</i> ₈₈	2.55	0.19	2 W

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Planet	Period	Variation	Note	Planet	Period	Variation	Note
47373 1999 <i>XT</i> ₉₁	2.111	0.10	1 W	48286 2002 <i>GZ</i> ₉₆	11.431	0.65	2 W
47386* 1999 <i>XX</i> ₁₀₁	8.433	0.12–0.14	2 W	48290 2002 <i>JH</i>	5.581	0.60	2 W
47392 1999 <i>XT</i> ₁₀₉	5.27	0.10	2 W	48298* 2002 <i>LL</i> ₃₃	6.71	0.52	2 W
47406 1999 <i>XV</i> ₁₂₆	5.838	0.38	2 W	48307 2002 <i>LP</i> ₅₃	3.79	0.34	2
47417* 1999 <i>XL</i> ₁₆₀	11.71	1.07	2– W	48317* 2002 <i>NY</i> ₂₀	7.11	0.26	2 W
47436 1999 <i>XM</i> ₁₇₆	3.843	0.18	2 W	48322 2002 <i>NT</i> ₃₂	3.550	0.09	1 W
47443 1999 <i>XE</i> ₁₉₆	2.416	0.06	1 W	48336 2002 <i>PS</i> ₆	7.031	1.18	3
47463 1999 <i>XE</i> ₂₅₈	9.252	0.69	2 W	48349 4239 <i>P-L</i>	3.760	0.41	2 W
47473 2000 <i>AU</i> ₂	3.407	0.53	2 W	48353* 6616 <i>P-L</i>	9.903	0.31–0.34	2 W
47485 2000 <i>AO</i> ₂₂	2.892	0.40	2 W	48362 2184 <i>T-2</i>	2.102	0.24	2 W
47488 2000 <i>AZ</i> ₃₂	3.358	0.11	2 W	48376 4044 <i>T-3</i>	534.962	1.31	2 W
47496 2000 <i>AU</i> ₄₃	4.02	0.15	2 W	48406 1981 <i>EQ</i> ₄₇	78.294	0.90	2 W
47506 2000 <i>AA</i> ₅₈	2.192	0.08	1 W	48436 1989 <i>VK</i>	5.45	0.31	2 A
47508 2000 <i>AQ</i> ₅₈	5.05521		p Ns	48438 1989 <i>WJ</i> ₂	17.672	0.39	2+
47517 2000 <i>AT</i> ₇₁	43.636	0.64	2 W	48464 1991 <i>RA</i> ₁₇	17.419	0.10	1 W
47526* 2000 <i>AM</i> ₉₀	4.49	0.57	1+ W	48469* 1991 <i>TQ</i> ₁	5.8182	0.95	3
47528* 2000 <i>AE</i> ₉₅	6.44	1.42	2+ W	48470 1991 <i>TC</i> ₂	10.504	0.09–0.19	2+
47536 2000 <i>AB</i> ₁₀₂	8.868	0.49	2 W	48476 1991 <i>UP</i> ₃	6.81	0.18	2 W
47540 2000 <i>AK</i> ₁₁₅	2.826	0.27	2 W	48478 1991 <i>VF</i> ₃	10.043	0.68	2 W
47549 2000 <i>AE</i> ₁₂₆	4.578	0.25	2 W	48485 1992 <i>EX</i> ₄	4.899	0.46	2 W
47574 2000 <i>AF</i> ₁₇₁	4.32475		p Ns	48517 1993 <i>FR</i> ₂₅	3.79	0.28	2 W
47582 2000 <i>AO</i> ₁₇₉	12.402	0.26	2 W	48520* 1993 <i>FK</i> ₄₅	7.06	0.36	2+ W
47608 2000 <i>AE</i> ₂₄₃	9.128	0.38	2 W	48522 1993 <i>FF</i> ₅₄	13.206	0.30	2 W
47614* 2000 <i>BO</i> ₁₄	4.88	0.48	1 DAW	48528 1993 <i>OC</i> ₃	3.707	0.55	2 W
47644* 2000 <i>CO</i> ₃₆	6.15	0.32	2 W	48580* 1994 <i>PD</i> ₁₇	7.06	0.60	2– W
47651 2000 <i>CV</i> ₄₂	19.250	0.76	2 W	48581 1994 <i>PV</i> ₁₉	3.173	0.18	2 W
47662* 2000 <i>CN</i> ₅₃	8.97	0.20	1+ AW	48593 1994 <i>VF</i>	113.312	0.81	2 W
47676 2000 <i>CE</i> ₇₁	3.787	0.44	2 W	48601 1995 <i>BL</i>	4.590	0.45–0.56	3
47678 2000 <i>CT</i> ₇₅	9.453	0.55	2 W	48611 1995 <i>FS</i> ₆	4.581	0.50	2 W
47691* 2000 <i>CT</i> ₉₂	3.87	0.47–0.54	2 W	48614* 1995 <i>FP</i> ₁₄	4.779	0.47–0.51	2 W
47700* 2000 <i>CQ</i> ₁₂₁	2.51	0.19	1 W	48617 1995 <i>HR</i> ₂	4.058	0.34	2 W
47714 2000 <i>DS</i> ₂₄	10.	0.35	1 W	48635 1995 <i>SU</i> ₅₂	28.106	0.77	2 W
47742* 2000 <i>DX</i> ₇₃	7.74	0.49	2– W	48637* 1995 <i>SU</i> ₈₇	5.546	0.32–0.35	2 W
47745* 2000 <i>DE</i> ₇₇	3.28	0.25	1+ W	48639* 1995 <i>TL</i> ₈			HNB
47780 2000 <i>EM</i> ₁₃	2.53	0.16	2 W	48644* 1995 <i>UG</i> ₇	8.28	0.14	2– W
47798 2000 <i>EP</i> ₄₅	6.840	0.60	2 W	48645 1995 <i>UF</i> ₈	3.110	0.23	2 W
47815 2000 <i>EP</i> ₈₅	8.820	0.35	2 W	48646 1995 <i>UL</i> ₈	11.383	0.24	2 W
47819* 2000 <i>EJ</i> ₉₁	5.08	0.44–0.51	3– W	48652 1995 <i>VB</i>	13.829	0.63	3
47823* 2000 <i>EK</i> ₉₇	5.52	0.51	2 W	48660* 1995 <i>WA</i> ₅	2.791	0.08–0.11	2 W
47840 2000 <i>EW</i> ₁₁₉	4.146	0.67	2 W	48663* 1995 <i>WY</i> ₇	6.23	0.38–0.44	2 W
47841 2000 <i>EO</i> ₁₂₁	2.887	0.46	2 W	48676 1996 <i>AW</i> ₆	5.730	0.37	2 W
47856 2000 <i>EO</i> ₁₅₄	2.72	0.14	2 W	48677 1996 <i>AQ</i> ₇	4.551	0.45	2 W
47857 2000 <i>ET</i> ₁₅₅	7.658	0.73	2 W	48682 1996 <i>BP</i> ₁	4.8	0.13	1
47858 2000 <i>EB</i> ₁₅₈	6.715	1.08	2 W	48707* 1996 <i>KR</i> ₁	230.	0.65–0.75	3– T0
47865 2000 <i>FK</i> ₃	3.549	0.39	2 W	48721* 1996 <i>UJ</i> ₂	5.416	0.51–0.63	2 W
47880 2000 <i>FY</i> ₂₇	6.813	0.43	2 W	48724 1996 <i>XZ</i> ₂₆	5.504	0.45	2 W
47896 2000 <i>GE</i> ₃₆	9.175	0.27	2 W	48727* 1997 <i>AL</i> ₁₈	3.228	0.27–0.29	2 W
47911* 2000 <i>GT</i> ₇₆	5.686	0.68–0.71	2 W	48734* 1997 <i>CZ</i> ₁₆	6.446	0.35–0.38	2 W
47922* 2000 <i>GK</i> ₁₀₉	37.394	0.46–0.75	2 W	48744* 1997 <i>FY</i> ₂	4.067	0.26–0.27	2 W
47924 2000 <i>GS</i> ₁₁₃	7.030	0.77	2 W	48748 1997 <i>GV</i> ₃	7.018	1.01	2 W
47932 2000 <i>GN</i> ₁₇₁	8.329	0.48–0.64	3	48786 1997 <i>SH</i> ₄	4.180	0.21	2 W
47940 2000 <i>HE</i> ₅₉	8.332	0.62	2 W	48820* 1997 <i>WW</i> ₃₃	4.55	0.24	2+ W
47957 2000 <i>QN</i> ₁₁₆	10.929	0.51	2 W	48835 1997 <i>YK</i> ₁₈	32.00	0.38	2 W
47963 2000 <i>SO</i> ₅₆	13.730	0.31	2 W	48842 1998 <i>BA</i> ₄₄	6.184	0.64	2 p s
47983 2000 <i>XX</i> ₁₃	2.902	0.09	2+ W	48864 1998 <i>HK</i> ₄₃	4.0725	0.53	3
47990 2000 <i>YV</i> ₆₈	6.32	0.12	2 W	48865 1998 <i>HT</i> ₄₆	7.996	0.62	2 W
47993 2000 <i>YM</i> ₁₀₅	23.18	0.28	2– W	48882 1998 <i>HJ</i> ₁₃₉	6.96	0.73	2 W
48040* 2001 <i>DL</i> ₇₀	10.32	0.53	2+ W	48900* 1998 <i>MP</i> ₂₂	6.570	0.17–0.19	2 W
48048 2001 <i>DG</i> ₈₈	3.403	0.18	2 W	48902 1998 <i>MP</i> ₃₁	5.44	0.37	2 W
48094 2001 <i>FX</i> ₄₇	11.613	0.46	2 W	48907 1998 <i>MX</i> ₃₆	13.896	0.46	2 W
48095 2001 <i>FZ</i> ₅₀	7.422	0.53	2 W	48935* 1998 <i>QK</i> ₁	5.363	0.58–0.67	2 W
48103 2001 <i>FP</i> ₆₆	4.97	0.22	2 W	48944* 1998 <i>QT</i> ₁₃	4.30	0.41–0.44	2 W
48120 2001 <i>FT</i> ₉₇	78.226	0.89	2 W	48948 1998 <i>QL</i> ₁₄	21.943	0.49	2 W
48130 2001 <i>FF</i> ₁₁₉	4.320	0.43	2 W	48950 1998 <i>QW</i> ₁₇	5.523	0.08	1 W
48134 2001 <i>FD</i> ₁₂₇	5.778	0.65	2 W	48966 1998 <i>QY</i> ₃₄	9.203	0.16	2 W
48147 2001 <i>FO</i> ₁₆₀	26.17	0.25	2 A	48969* 1998 <i>QT</i> ₃₈	3.258	0.27–0.32	2 W
48154 2001 <i>GT</i> ₃	5.56	0.79	3– W	48976 1998 <i>QN</i> ₄₀	4.713	0.20	2 W
48157 2001 <i>GB</i> ₇	5.339	0.70	2 W	48981* 1998 <i>QD</i> ₄₅	6.979	0.54–0.55	2 W
48182 2001 <i>HH</i> ₄₀	4.214	0.23	2 W	48989* 1998 <i>QS</i> ₄₇	5.11	0.61	2 W
48189 2001 <i>HR</i> ₄₉	19.455	0.33	2 W	48990* 1998 <i>QX</i> ₄₇			HNW
48190 2001 <i>HA</i> ₅₃	2.40	0.16	2 W	48999 1998 <i>QM</i> ₅₂	7.044	0.34	2 W
48203 2001 <i>KQ</i> ₆	52.909	0.43	2 W	49039* 1998 <i>RH</i>	>72.	>0.8	2 HNW
48233* 2001 <i>LY</i> ₉	3.62	0.49–0.50	3– W	49059 1998 <i>RP</i> ₄₄	4.737	0.67	2 W
48234 2001 <i>LT</i> ₁₃	11.558	0.28	2 W	49069 1998 <i>RM</i> ₅₄	62.007	0.08	1 W
48251 2001 <i>TA</i> ₁₉₀	32.944	0.27	2 W	49148 1998 <i>SB</i> ₄₉	5.504	0.52	2 W
48262 2001 <i>XL</i> ₈₇	6.638	0.61	2 W	49152 1998 <i>SQ</i> ₅₂	5.28	0.54	2 W
48267 2001 <i>YA</i> ₁₁₈	8.179	0.52	2 W	49155* 1998 <i>SZ</i> ₅₃	2.62	0.44–0.47	2 W
48268 2002 <i>AK</i> ₁	4.25055		p Ns	49193* 1998 <i>SM</i> ₉₁	5.66	0.35	2– HW
48282* 2002 <i>FA</i> ₂₂	10.040	0.38–0.44	2 W	49203* 1998 <i>SW</i> ₁₁₅	6.27	0.79–0.84	3 W
48284* 2002 <i>GD</i> ₆₀	14.33	0.80	2– W	49256 1998 <i>TA</i> ₃₁	21.864	0.30	2 W

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Planet	Period	Variation	Note	Planet	Period	Variation	Note
49257 1998 <i>TJ</i> ₃₁	3.166	0.81	2 W	50081* 2000 <i>AL</i> ₈₈	9.589	0.55–0.56	2 W
49299 1998 <i>VU</i> ₅	43.555	0.22	2 W	50089 2000 <i>AA</i> ₉₅	5.865	0.08	1 W
49349 1998 <i>WW</i> ₆	12.161	0.39	2 W	50129 2000 <i>AM</i> ₁₂₅	3.002	0.40	2 W
49355 1998 <i>WH</i> ₁₂	3.623	0.26	2 W	50138 2000 <i>AY</i> ₁₂₈	11.380	0.67	2 W
49385* 1998 <i>XA</i> ₁₂	2.5231	0.15–0.16	3	50142 2000 <i>AY</i> ₁₂₉	18.274	0.50	2 W
49389 1998 <i>XS</i> ₂₀	7.138	0.41	2 W	50156 2000 <i>AN</i> ₁₄₂	4.956	0.29	2 W
49395 1998 <i>XW</i> ₃₂	3.971	0.36	2 W	50171 2000 <i>AA</i> ₁₅₉	5.462	0.79	2 W
49406 1998 <i>XP</i> ₄₇	2.825	0.13	2 W	50176 2000 <i>AH</i> ₁₆₃	158.592	0.61	2 W
49418 1998 <i>XP</i> ₇₃	3.620	0.55	2 W	50179 2000 <i>AW</i> ₁₆₃	6.066	0.41	2 W
49423 1998 <i>XR</i> ₇₇	5.384	0.73	2 W	50196 2000 <i>AM</i> ₁₉₈	10.166	0.43	2 W
49425 1998 <i>XE</i> ₈₀	7.274	0.78	2 W	50203 2000 <i>AH</i> ₂₀₃	7.2	>0.4	1
49431 1998 <i>XB</i> ₉₉	61.961	0.26	2 W	50248 2000 <i>BB</i> ₁₆	16.659	0.09	1 W
49432 1998 <i>YD</i>	30.909	0.32	2 W	50257 2000 <i>BQ</i> ₂₆	5.110	0.80	2 W
49438* 1998 <i>YD</i> ₄	7.44	0.35	2 W	50261* 2000 <i>BM</i> ₂₇			HNW
49439 1998 <i>YC</i> ₅	31.283	0.48	2 W	50262 2000 <i>BN</i> ₂₇	2.978	0.31	2 W
49446 1998 <i>YO</i> ₉	28.326	0.10	1 W	50274* 2000 <i>CN</i> ₁			HNW
49447 1998 <i>YW</i> ₁₁	3.383	0.09	1 W	50286 2000 <i>CA</i> ₂₆	6.652	0.87	2 W
49482* 1999 <i>BV</i> ₁₂	8.117	0.67–0.72	2 W	50287* 2000 <i>CT</i> ₂₆	3.430	0.45–0.50	2 W
49504 1999 <i>CA</i> ₁₇	7.304	0.60	2 W	50303 2000 <i>CX</i> ₃₆	3.625	0.08	1 W
49507 1999 <i>CF</i> ₂₀	10.745	0.15	2 W	50317 2000 <i>CZ</i> ₄₇	2.6785	0.20	2 W
49526 1999 <i>CP</i> ₄₀	4.073	0.46	2 W	50321 2000 <i>CH</i> ₅₁	5.695	0.58	2 W
49540 1999 <i>CU</i> ₆₃	7.190	0.20	2 W	50329 2000 <i>CK</i> ₅₆	7.06	0.14	2 W
49555 1999 <i>CK</i> ₈₈	5.090	0.40	2 W	50332 2000 <i>CP</i> ₅₇	13.241	0.06	1 W
49566 1999 <i>CM</i> ₁₀₆	>24.	>0.2		50338 2000 <i>CU</i> ₆₁	5.720	0.44	2 W
49569* 1999 <i>CH</i> ₁₀₉	4.641	0.29–0.35	2 W	50349 2000 <i>CC</i> ₇₀	3.224	0.31	2 W
49570 1999 <i>CQ</i> ₁₁₀	3.874	0.55–0.71	2 W	50350* 2000 <i>CD</i> ₇₀	5.75	0.70–0.98	2 W
49574* 1999 <i>CO</i> ₁₁₉	6.2	0.45–0.50	2+	50352 2000 <i>CK</i> ₇₀	10.535	0.16	2 W
49579* 1999 <i>CL</i> ₁₂₄	10.79	0.34	2–	50378* 2000 <i>CV</i> ₈₈	5.605	0.45–0.46	2 W
49582 1999 <i>CB</i> ₁₂₈	5.342	0.88	2 W	50381 2000 <i>CG</i> ₈₉	9.657	0.61	2 W
49584* 1999 <i>CE</i> ₁₃₃	4.82	0.19	1 W	50399 2000 <i>CQ</i> ₁₀₂	3.42	0.13	2 W
49585* 1999 <i>CO</i> ₁₃₇	4.10	0.43	2 W	50403* 2000 <i>CB</i> ₁₁₄	2.5671	0.17	3–
49586 1999 <i>CD</i> ₁₃₈	144.	1.0	2–	50406 2000 <i>CK</i> ₁₁₆	7.156	0.25	2 W
49589 1999 <i>CQ</i> ₁₄₉		0.69	W	50411 2000 <i>DS</i>	5.020	0.45	2 W
49597* 1999 <i>FY</i> ₁₂	6.368	0.67–0.73	2 W	50413 Petrginz	4.80	0.74	2 W
49603* 1999 <i>FC</i> ₂₅	5.152	0.13–0.15	2 W	50433 2000 <i>DC</i> ₂₂	8.42	0.32	2 W
49607 1999 <i>FC</i> ₂₈	42.133	0.61	2 W	50468 2000 <i>DA</i> ₆₉	7.2	0.05	1
49616 1999 <i>FY</i> ₄₂	7.397	0.96	2 W	50478 2000 <i>DN</i> ₇₄	9.067	0.86	2 W
49617 1999 <i>FJ</i> ₄₃	15.823	0.63	2 W	50487* 2000 <i>DH</i> ₈₅			HNW
49622* 1999 <i>GO</i> ₃	5.513	0.35–0.41	2 W	50493* 2000 <i>DL</i> ₉₃	4.638	0.40–0.46	2 W
49630 1999 <i>GB</i> ₂₁	78.94	0.46	2 W	50495 2000 <i>DU</i> ₉₃	13.927	0.72	2 W
49636* 1999 <i>HJ</i> ₁	2.821	0.26–0.29	2	50511 2000 <i>DZ</i> ₁₀₁	>8.		N
49642 1999 <i>JK</i> ₂₆	220.047	0.67	2 W	50515* 2000 <i>DS</i> ₁₀₅	3.75	0.38	3 W
49652 1999 <i>JW</i> ₈₁	3.798	0.10	1 W	50518 2000 <i>DL</i> ₁₀₉	6.071	0.83	2 W
49653 1999 <i>JO</i> ₈₅	>8.		N	50554 2000 <i>EC</i> ₂₄	161.921	0.60	2 W
49662 1999 <i>KC</i> ₃	8.032	0.33	2 W	50557 2000 <i>EN</i> ₂₅	5.206	0.27	2 W
49667 1999 <i>OM</i> ₂	3.48608	0.40–0.60	3	50566* 2000 <i>EL</i> ₃₈	4.606	0.63–0.73	2 W
49668 1999 <i>OP</i> ₂	2.072	0.08	1 W	50569 2000 <i>ET</i> ₃₈	6.222	0.83	2 W
49669 1999 <i>RZ</i> ₃₀	3.119	0.26	2+	50573 2000 <i>EX</i> ₃₉	3.9789	0.19	2 A
49671 1999 <i>RP</i> ₄₆	700.072	0.68	2 W	50575 2000 <i>EL</i> ₄₀	4.308	0.08	1 W
49672 1999 <i>RM</i> ₁₀₃	4.648	0.29	2 W	50583 2000 <i>EN</i> ₄₂	7.744	0.95	2 W
49674 1999 <i>SB</i> ₅	7.56	1.22	3–	50596 2000 <i>EV</i> ₄₇	2.908	0.08	2 W
49675* 1999 <i>SW</i> ₂₇	4.994	0.40–0.49	3	50647 2000 <i>EN</i> ₈₈	319.971	0.88	2 W
49678 1999 <i>TQ</i> ₇	3.957	0.34–0.40	3	50648 2000 <i>EL</i> ₈₉	4.80	0.19	2 W
49719 1999 <i>VE</i> ₅₀	1.24	0.09	1+	50652 2000 <i>ER</i> ₉₁	4.396	0.48	2 W
49758 1999 <i>VY</i> ₁₈₈	5.209	0.20	2 W	50672 2000 <i>EN</i> ₁₀₇	5.216	0.30	2 W
49766* 1999 <i>WS</i>	6.82	0.61–0.88	2+	50682 2000 <i>EJ</i> ₁₁₁	7.237	0.80	2 W
49777 Cappi	5.939	0.78	2 W	50694* 2000 <i>EM</i> ₁₂₄	3.962	0.65–0.69	2 W
49781 1999 <i>XT</i> ₇	6.436	0.40	2 W	50719 2000 <i>EG</i> ₁₄₀	1256.016	0.42	2 W
49795* 1999 <i>XJ</i> ₃₂	5.938	0.37–0.45	2 W	50730 2000 <i>EZ</i> ₁₄₉	7.395	0.44	2 W
49820 1999 <i>XS</i> ₆₄	10.195	0.33	2 W	50734 2000 <i>EP</i> ₁₅₃	7.972	0.27	2 W
49832 1999 <i>XA</i> ₈₄	2.520	0.10	1 W	50739 2000 <i>EY</i> ₁₅₆	7.725	0.37	2 W
49859 1999 <i>XB</i> ₁₀₀	12.591	0.35	2 W	50740 2000 <i>EO</i> ₁₅₇	12.932	0.46	2 W
49868 1999 <i>XF</i> ₁₁₂	33.288	0.27	2 W	50748 2000 <i>ED</i> ₁₇₁	2.974	0.29	2 W
49879 1999 <i>XH</i> ₁₃₅	5.875	0.90	2 W	50759 2000 <i>EF</i> ₁₈₃	3.145	0.34	2 W
49880 1999 <i>XP</i> ₁₃₅	11.111	0.10	1	50762 2000 <i>EY</i> ₁₈₄	3.198	0.29–0.32	2 W
49889 1999 <i>XA</i> ₁₅₈	7.06	0.10	2 W	50776 2000 <i>FS</i> ₁₂	11.156	0.36	2 W
49904 1999 <i>XN</i> ₁₆₅	10.441	0.13	2	50811* 2000 <i>FZ</i> ₂₉	5.177	0.42–0.43	2 W
49910* 1999 <i>XS</i> ₁₆₉	2.758	0.09–0.12	2 W	50822 2000 <i>FH</i> ₃₅	6.	0.08	1+
49923 1999 <i>XQ</i> ₁₇₄	5.21	0.25	2+	50827 2000 <i>FN</i> ₃₇	2.68	0.20	2 W
49953 1999 <i>XL</i> ₂₁₅	2.99645	0.37	3	50866 Davidesprizzi	2.179	0.09	1 W
50000 Quaoar	17.6788	0.13–0.18	2 B	50879 2000 <i>GT</i> ₃₂	9.7	0.3	1
50002 2000 <i>AB</i> ₁₆	5.568	0.96	2 W	50886 2000 <i>GW</i> ₃₉		0.64	W
50008 2000 <i>AF</i> ₂₅	16.417	0.59	2 W	50893 2000 <i>GX</i> ₄₁	4.224	0.41	2 W
50013 2000 <i>AE</i> ₃₁	3.770	0.52	2 W	50895 2000 <i>GH</i> ₄₂	6.411	0.26	2 W
50016 2000 <i>AT</i> ₃₂	2.92	0.20	2 W	50897 2000 <i>GA</i> ₄₄	17.428	0.08	1 W
50023 2000 <i>AY</i> ₃₇	8.936	0.45	2 W	50911 2000 <i>GC</i> ₅₄	5.051	0.43	2 W
50025 2000 <i>AR</i> ₄₁	11.003	0.63	2 W	50914 2000 <i>GE</i> ₅₆	41.048	0.64	2 W
50031 2000 <i>AH</i> ₄₇	6.61	0.91	3–	50926* 2000 <i>GF</i> ₆₅	6.27	0.30–0.34	2 W
50034 2000 <i>AJ</i> ₄₈	61.564	0.55	2 W	50960* 2000 <i>GN</i> ₈₂	12.15	0.40	2–
50038* 2000 <i>AT</i> ₅₄	7.26	0.68–0.82	3–	50966 2000 <i>GZ</i> ₈₅	3.119	0.09	1 W

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Planet	Period	Variation	Note	Planet	Period	Variation	Note
50971* 2000 GP ₈₈	3.738	0.49–0.68	2 W	51857 2001 OA ₁₀₅	4.313	0.33	2 W
50972* 2000 GE ₉₀	7.56	0.43	1+ W	51867 2001 PC ₄	5.858	0.32	2 W
50983 2000 GT ₉₃	8.103	0.47	2 W	51870 2001 PC ₆	17.020	0.30	2 W
50990 2000 GH ₉₄	5.149	0.23	2 W	51871 2001 PH ₈	13.127	0.08	1 W
50991 2000 GK ₉₄	7.010	0.86	3	51874* 2001 PZ ₂₈	3.685	0.19	3–
51009 2000 GF ₁₀₃	73.783	1.05	2 W	51898 2001 QS ₃₆	9.710	0.39	2 W
51010 2000 GN ₁₀₃	139.156	0.39	2 W	51902* 2001 QL ₃₉			W HNW
51033 2000 GD ₁₂₂	5.784	0.36	2 W	51906 2001 QN ₅₁	6.511	0.90	2 W
51035 2000 GO ₁₂₄	14.401	0.32	2 W	51911* 2001 QD ₆₈	4.568	0.21–0.32	2
51040 2000 GC ₁₃₄	7.869	0.42	2 W	51926 2001 QE ₉₈	5.610	0.19	2
51069 2000 GV ₁₅₇	3.904	0.31	2 W	51937* 2001 QD ₁₅₉	6.668	0.67–0.70	2 W
51088* 2000 GE ₁₇₇	4.12	0.57	1+ W	51958 2001 QJ ₂₅₆	16.79	0.30	2
51096* 2000 HP ₇	8.11	0.73–0.75	3– W	51959 2001 QH ₂₅₇	27.510	0.30	2 W
51099* 2000 HZ ₈	7.692	0.55–0.66	2 W	51987* 2001 SV ₁₇₉	2.82	0.18–0.22	2 W
51100* 2000 HQ ₁₀	>15.	>0.5	2– W	51992 2001 TX ₃₇	2.836	0.10	2 W
51109* 2000 HA ₂₅	4.92	0.25	2 W	51995 2001 TK ₁₀₁	8.938	0.95	2 W
51131 2000 HM ₄₁	10.099	0.43	2 W	51996 2001 TH ₁₁₈	28.305	0.29	2 W
51135 2000 HO ₄₄	4.486	0.44	2 W	52011 2002 LW ₁₉	114.456	0.08	1 W
51154 2000 HC ₅₆	6.125	0.40	2 W	52046 2002 PH ₈₃	4.23	0.49	2 W
51156 2000 HJ ₅₆	4.446	0.37	2 W	52054 2002 PB ₁₂₁	6.284	0.69	2 W
51160 2000 HR ₅₇	5.397	0.52	2 W	52059 2002 PH ₁₃₃	5.384	0.29	2 W
51176 2000 HF ₇₀	25.022	0.69	2 W	52060 2002 QJ ₇	4.898	0.67	2 W
51191 2000 HT ₉₄	13.235	0.46	2 W	52065 2002 QA ₂₃	2.355	0.07	1 W
51202 2000 JR ₆		0.52	W	52138 6131 P–L	6.824	0.09	1 W
51214 2000 JF ₂₂	5.503	0.48	2 W	52179 2270 T–2	4.97	0.81	2 W
51220 2000 JG ₂₃	198.808	0.08	1 W	52191* 4263 T–2			HNW
51224* 2000 JU ₂₄	34.890	0.73–0.82	2 W	52192* 5053 T–2	5.524	0.60–0.67	2 W
51238 2000 JT ₃₄	250.645	0.42	2 W	52194 1149 T–3	11.109	0.36	2 W
51276 2000 JZ ₈₁	5.555	0.8	1	52199* 2465 T–3	11.953	0.74–0.82	2 W
51283 2000 KN ₇	4.775	0.32	2+ W	52215 4213 T–3	9.394	0.10	1 W
51286* 2000 KX ₁₅	3.56	0.23	2– W	52224 5602 T–3	3.950	0.72	2 W
51299 2000 KK ₅₂	8.949	0.41	2 W	52235* 1979 MW ₂	8.360	0.73–0.75	2 W
51302 2000 KY ₅₄	2.46	0.08	2 W	52253* 1981 EZ ₃₅	11.86	0.97	1 DAW
51332 2000 LP ₃₅	5.870	0.56	2 W	52266* Van Flandern	9.890	0.52–0.61	3
51339 2000 OA ₆₁	19.449	0.56	2 W	52296* 1990 WM ₃	9.342	0.22–0.25	2 W
51342 2000 QO ₇₅	2.910	0.26	2 W	52301 Qumran	3.225	0.08	1 W
51350* 2000 QU ₁₇₆	11.306	0.31–0.34	2 W	52309 Philnicolai	4.641	0.62	2 W
51356 2000 RY ₇₆	2.5572	0.09	3 AB	52314 1991 XD	7.683	0.56–0.61	3
51357* 2000 RM ₈₈	9.07	0.51	2 W	52316 Daveslater	2.7629	0.10	3 B
51364 2000 SU ₃₃₃	30.56	0.50–0.55	3–	52317 1992 BC ₁	34.07	0.11	2+ A
51365 2000 TA ₄₂	58.76	0.14–0.26	2+ W	52330* 1992 EA ₁₅	3.203	0.29–0.33	2 W
51371 2000 XF ₁₅	54.	0.09	2– AT0	52353 1993 FP ₁₉	5.05	0.16	2 W
51381 2001 BG ₅₁	47.134	0.38–0.47	3	52379* 1993 FL ₈₁	17.213	0.73	2 W
51383 2001 BF ₇₇	6.366	0.27	2 W	52381* 1993 HA	4.107	0.58	3–
51384 2001 CP ₄	11.696	0.58	2 W	52387 1993 OM ₇	>26.	>0.4	2 T0
51386 2001 CN ₃₅	48.0	0.36	2 T0	52392* 1993 RG ₅	3.351	0.26–0.29	2 W
51423 2001 FJ	3.971	0.61	2 W	52410 1993 UG ₆	43.072	0.77	2 W
51458 2001 FL ₄₂	6.23	0.58	2 W	52431* 1994 PS ₁₀			HNW
51486 2001 FL ₇₃	7.391	0.57	2 W	52436 1994 PM ₂₆	3.58	0.11	2 W
51495* 2001 FO ₇₉	17.919	0.39–0.71	2 W	52437* 1994 PY ₂₇	5.02	0.66–0.83	3 W
51513 2001 FY ₉₉	3.428	0.46	2 W	52505 1996 FD ₄	3.846	0.37	2+ W
51519 2001 FT ₁₀₉	2.057	0.08	1 W	52521* 1996 JU ₃	3.49	0.14–0.16	2 W
51523 2001 FJ ₁₂₀	5.102	0.26	2 W	52522* 1996 JW ₁₀	9.388	0.57–0.61	2 W
51524 2001 FJ ₁₂₁	3.086	0.29	2 W	52532 1996 TP ₈	6.537	0.39	2 W
51542 2001 FA ₁₄₇	2.819	0.31	2 W	52549 1996 XB ₃₁	14.33	0.19	2 W
51573 2001 HX ₄	4.667	0.94	2 W	52560 1997 GL ₁₄	3.555	0.07	1 W
51609 2001 HZ ₃₂	6.767	0.40	3	52587* 1997 PD	4.4571	0.09	3–
51612* 2001 HT ₃₃	3.49	0.22	2– W	52598 1997 SR ₃	21.182	0.53	2 W
51613 2001 HS ₃₄	6.23	0.19	2	52620 1997 VQ ₃	3.210	0.25	2 W
51624 2001 HT ₃₇	12.086	0.38	2 W	52634 1997 WR ₂₈	4.351	0.07	1 W
51656 2001 JD	11.908	0.45	2 W	52640 1997 WJ ₄₆	7.410	0.43	2 W
51659 2001 JN ₁	4.995	0.09	1 W	52646 1997 YC	14.491	0.48	2 W
51734 2001 KX ₄₆	15.434	0.31	2 W	52681* 1998 DK ₃₄	6.363	0.68–0.72	2 W
51744 2001 KP ₅₆	9.743	0.63	2 W	52684 1998 EQ ₈	7.905	0.42	2 W
51761 2001 LD ₇	4.087	0.43	2 W	52692 1998 FO ₈	13.366	0.27	2 W
51773 2001 MV	3.9976	0.16	N	52696* 1998 FC ₅₁	4.29	0.28–0.33	2 W
51777 2001 MG ₈	155.931	0.79	2 W	52700 1998 FG ₆₂	16.973	0.63	2 W
51780* 2001 MB ₉	5.810	0.70–0.78	2 W	52709* 1998 FA ₈₄	16.003	0.32–0.36	2 W
51801 2001 NZ ₂	133.893	0.18	2 W	52722 1998 GK	11.587	0.4	2
51802 2001 NF ₄	4.146	0.28	2 W	52723 1998 GP ₂	11.90781		p Ns
51816 2001 OY ₁₂	5.148	0.41	2 W	52748 1998 JJ ₁	4.258	0.73–0.80	3
51817 2001 OA ₁₃	19.692	0.80	2 W	52750* 1998 KK ₁₇	26.43	0.15–0.24	2+ B?
51819 2001 OZ ₁₅	4.182	0.33	2 W	52760 1998 ML ₁₄	14.28	0.12–0.15	2
51820 2001 OT ₁₉	2.653	0.05	1 W	52762 1998 MT ₂₄	12.08	0.27–0.4	2 A
51832 2001 OS ₄₆	19.757	0.94	2 W	52768 1998 OR ₂	4.112	0.16–0.29	2+ W
51840 2001 OH ₆₅	3.115	0.39	2+ W	52773 1998 QU ₁₂	3.70834	0.35	3
51851 2001 OC ₉₃	7.661	0.63	2 W	52776* 1998 QS ₁₉	7.151	0.52–0.55	2 W
51853 2001 OY ₉₆	6.801	0.49	2 W	52786* 1998 QP ₄₂	>144.	>0.5	HNW
51854 2001 OG ₁₀₀	8.256	0.22	2 W	52801 1998 QG ₆₃	5.197	0.60	2 W
51855* 2001 OK ₁₀₂	9.621	0.51–0.52	2 W	52816* 1998 QX ₉₈			HNW

MINOR PLANET LIGHTCURVE PARAMETERS

Planet	Period	Variation	Note	Planet	Period	Variation	Note
52819 1998 <i>QK</i> ₁₀₄	3.95	0.38	2 W	54189* 2000 <i>HQ</i> ₇₅	4.21	0.56	2 W
52839* 1998 <i>RZ</i> ₅₅	49.2	>0.1	1	54222* 2000 <i>JF</i>	5.487	0.34–0.36	2 W
52852 1998 <i>RB</i> ₇₅	5.432	0.18	3–	54234 2000 <i>JD</i> ₁₆	2.664	0.13–0.39	3–
52872 1998 <i>Okyrhoe</i>	9.72	0.07–0.4	2 A	54238 2000 <i>JD</i> ₁₉	23.421	0.28	2 W
52889 1998 <i>SH</i> ₆₁	2.567	0.09	1 W	54253 2000 <i>JP</i> ₂₇	17.5		N
53008* 1998 <i>VY</i> ₅	47.	0.11–0.30	2	54272 2000 <i>JT</i> ₄₀	16.27	0.61	2 W
53011 1998 <i>VH</i> ₉	4.817	0.09	1 W	54291 2000 <i>JD</i> ₅₇	4.069	0.53	2 W
53028 1998 <i>WX</i> ₅	4.437	0.53	2 W	54295 2000 <i>JO</i> ₅₉	3.917	0.24	2 W
53043 1998 <i>WY</i> ₂₁	30.406	0.77	2 W	54349* 2000 <i>KX</i> ₂₉	3.58	0.63	2 W
53110 1999 <i>AR</i> ₇	2.7375	0.10	3 B	54376* 2000 <i>KV</i> ₅₆	4.178	0.58–0.71	2 W
53113 1999 <i>AP</i> ₈	7.830	0.32	2 W	54397* 2000 <i>KC</i> ₈₀	7.354	0.46–0.55	2 W
53115 1999 <i>AM</i> ₁₄	4.04	0.16	2	54410 2000 <i>LG</i> ₉	8.211	0.66	2 W
53120* 1999 <i>AE</i> ₂₁			HNW	54427* 2000 <i>LG</i> ₂₇	3.858	0.33–0.37	2 W
53122 1999 <i>AS</i> ₂₂	2.910	0.45	2 W	54432* 2000 <i>LG</i> ₃₁	7.11	1.49	2 W
53123 1999 <i>AB</i> ₂₃	5.460	0.67	2 W	54439* Topeka	7.38	0.38	2– W
53176 1999 <i>CF</i> ₃₁	2.558	0.18	2 W	54445* 2000 <i>MW</i> ₅	5.288	0.63–0.64	2 W
53186* 1999 <i>CB</i> ₄₅	13.191	0.55–0.63	2 W	54453 2000 <i>NL</i> ₁₅	5.855	0.75	2 W
53196 1999 <i>CF</i> ₅₅	9.309	0.46	2 W	54460 2000 <i>NU</i> ₂₈	6.728	0.51	2 W
53206 1999 <i>CK</i> ₇₄	3.826	0.50	2 W	54501 2000 <i>OB</i> ₅₂	6.0	0.20	2–
53207 1999 <i>CQ</i> ₇₄	8.436	0.27	2 W	54509 YORP	0.2029	0.77–0.89	p N
53208 1999 <i>CE</i> ₇₅	2.354	0.23	2 W	54533* 2000 <i>QM</i> ₃₈	7.64	0.35	1+ DAW
53209 1999 <i>CQ</i> ₇₅	14.335	0.24	2 W	54537* 2000 <i>QD</i> ₄₉	2.782	0.23–0.24	2 W
53247 1999 <i>DE</i> ₂	4.790	0.42	3–	54560 2000 <i>QM</i> ₁₃₂	5.502	0.17	2 W
53284 1999 <i>FK</i> ₄₇	5.167	0.20	2 W	54579 2000 <i>QA</i> ₁₆₅	4.76	0.30	2 W
53291* 1999 <i>GQ</i> ₁₀	7.80	0.40	2 W	54584* 2000 <i>QC</i> ₁₈₁	2.92	0.08	3– W
53294 1999 <i>GS</i> ₁₆	7.4	0.36	2	54587 2000 <i>QM</i> ₁₈₉	15.776	0.45	2 W
53298* 1999 <i>GF</i> ₂₅	5.51	0.42–0.45	3– W	54591 2000 <i>QC</i> ₂₀₂	2.73	0.12	2+ W
53300 1999 <i>GD</i> ₃₁	3.86	0.13	2 W	54598 Bienor	9.14	0.34–0.75	3
53319 1999 <i>JM</i> ₈	136.	0.7	2 T	54616 2000 <i>RZ</i> ₉₇	5.014	0.27	2 W
53328 1999 <i>JS</i> ₂₆	19.059	0.34	2 W	54630 2000 <i>SM</i> ₁₁₂		0.91	I
53337 1999 <i>JX</i> ₄₂	137.138	0.41	2 W	54652 2000 <i>SZ</i> ₃₄₄	5.26	0.07	2
53342 1999 <i>JK</i> ₅₁	4.622	0.71	2 W	54656 2000 <i>SX</i> ₃₆₂	11.937	0.29	2
53399 1999 <i>JG</i> ₁₁₂	3.335	0.26	2 W	54660 2000 <i>UJ</i> ₁	5.43	1.15	3–
53424 1999 <i>SC</i> ₃	6.40	0.10	2+	54671 2000 <i>WW</i> ₁₀₂	5.533	0.66	2 W
53425 1999 <i>SO</i> ₄	3.946	0.31	2 W	54672 2000 <i>WO</i> ₁₈₀	16.712	0.25	2 W
53426 1999 <i>SL</i> ₅	5.03	0.15	2	54685 2001 <i>CT</i> ₃₃	21.157	0.10	1 W
53430 1999 <i>TY</i> ₁₆	9.58	0.53–0.80	3	54686 2001 <i>DU</i> ₈	12.552	0.90	3
53431 1999 <i>UQ</i> ₁₀	2.650	0.10–0.15	3	54697 2001 <i>FA</i> ₇₀	3.05204	0.05–0.09	3 B?
53432 1999 <i>UT</i> ₅₅	3.330	0.10	3 B	54704 2001 <i>FC</i> ₁₇₂	2.91	0.39	2– W
53435 1999 <i>VM</i> ₄₀	5.189	0.19–0.38	3	54705 2001 <i>GW</i> ₃	9.966	0.25	2 W
53438* 1999 <i>WY</i> ₉	5.635	1.12	2+	54717 2001 <i>HQ</i> ₆₀	8.977	0.53	2 W
53453 1999 <i>XX</i> ₁₃₅	3.407	0.37	3–	54723 2001 <i>KW</i> ₁	12.536	0.31	2 W
53465 1999 <i>XY</i> ₂₂₂	5.072	0.13	2 W	54727 2001 <i>KO</i> ₁₀	10.278	0.40	2 W
53494 2000 <i>AP</i> ₆₈	4.126	0.17	2 W	54735 2001 <i>KW</i> ₂₄	5.36	0.15	2 W
53515* 2000 <i>AT</i> ₁₃₆	8.652	0.48–0.49	2 W	54737 2001 <i>KM</i> ₂₇	7.342	0.71	2 W
53523 2000 <i>AC</i> ₁₅₃	2.172	0.09	1 W	54789 2001 <i>MZ</i> ₇	37.57	1.4	3 T+
53530 2000 <i>AV</i> ₂₀₀	4.310	0.26–0.34	3–	54800 2001 <i>MC</i> ₁₅	83.291	0.61	2 W
53531 2000 <i>AD</i> ₂₁₂	2.69	0.11	2 W	54806 2001 <i>MX</i> ₂₂	5.597	0.43	2 W
53533 2000 <i>AA</i> ₂₁₆	5.674	0.51	2 W	54818 2001 <i>NR</i>	2.074	0.42	2 W
53535 2000 <i>AH</i> ₂₃₇	18.882	0.10	1 W	54827* 2001 <i>NQ</i> ₈	5.8764	0.25–0.54	3
53537 2000 <i>AZ</i> ₂₃₉	72.488	0.38	2 W	54843 2001 <i>OX</i> ₂	11.175	0.31	2
53585 2000 <i>CF</i> ₅₂	>33.	>0.1	N	54850 2001 <i>OZ</i> ₁₁	4.22216		p Ns
53601 2000 <i>CK</i> ₇₂	>16.	>0.15	1 W	54853* 2001 <i>OQ</i> ₁₉			HNW
53620* 2000 <i>CN</i> ₉₃	3.16	0.61–0.66	2 W	54872 2001 <i>OW</i> ₄₆	40.374	0.31	2 W
53632 2000 <i>CP</i> ₁₂₃	9.055	0.65	2 W	54879 2001 <i>OO</i> ₅₄	5.329	0.10	1 W
53639* 2000 <i>DJ</i> ₁₃	5.11	0.55–0.56	2 W	54896 2001 <i>OP</i> ₇₀	5.633	0.5	2
53734 2000 <i>EB</i> ₄₆	5.05	0.31	2 W	54906 2001 <i>OT</i> ₈₀	9.930	0.10	1 W
53739 2000 <i>EB</i> ₄₉	28.913	0.23	2 W	54959 2001 <i>PS</i> ₈	4.684	0.84	2 W
53789 2000 <i>ED</i> ₁₀₄	43.	>1.1	NT0	54979 2001 <i>PP</i> ₅₆	3.75	0.15	2 W
53790* 2000 <i>EV</i> ₁₀₅	9.60	0.36	2+	54984* 2001 <i>QR</i>	13.52	0.45	2 W
53815 2000 <i>EQ</i> ₁₃₇	2.705	0.33	2 W	55002 2001 <i>QF</i> ₁₉	4.56	0.20	1+ W
53827* 2000 <i>EH</i> ₁₄₉	8.97	0.93	2 W	55004* 2001 <i>QT</i> ₂₂	3.81	0.41–0.43	3– W
53843 Antjekrog	4.213	0.29	2 W	55014* 2001 <i>QC</i> ₃₁	3.3330	0.46–0.53	2
53863 2000 <i>FJ</i> ₂₆	7.104	0.82	2 W	55025 2001 <i>QF</i> ₄₀	15.24	0.53	2 W
53909* 2000 <i>GC</i> ₄	3.100	0.25–0.35	2 W	55043* 2001 <i>QL</i> ₅₉	2.619	0.10	2
53924 2000 <i>GJ</i> ₃₇	5.400	0.33	2 W	55045 2001 <i>QH</i> ₆₂	3.143	0.60	2 W
53930 2000 <i>GO</i> ₄₂	10.593	0.52	2 W	55063* 2001 <i>QS</i> ₇₈	3.24	0.48	2+ W
53933* 2000 <i>GG</i> ₄₄	6.23	0.73	1 W	55073 2001 <i>QY</i> ₉₂	3.627	0.35	2 W
53965* 2000 <i>GY</i> ₆₄	4.90	0.25	2 W	55078 2001 <i>QB</i> ₁₀₁	4.287	0.70	2 W
53980 2000 <i>GK</i> ₇₃	2.870	0.19	2 W	55097* 2001 <i>QT</i> ₁₃₂	4.370	0.44–0.46	2 W
53982 2000 <i>GG</i> ₇₄	36.376	0.83	2 W	55128 2001 <i>QH</i> ₁₇₇	3.00	0.18	2 W
54023 2000 <i>GD</i> ₁₀₀	51.855	0.08	1 W	55166* 2001 <i>QV</i> ₂₄₃	6.67	0.27	2– W
54041 2000 <i>GQ</i> ₁₁₃	18.86	0.20	2	55176 2001 <i>QD</i> ₂₆₂	46.885	0.22	2 W
54051 2000 <i>GL</i> ₁₂₆	5.94	0.20	2–	55200 2001 <i>RO</i> ₁₉	18.3910		p Ns
54063 2000 <i>GC</i> ₁₃₆	5.154	0.45	3	55257* 2001 <i>RQ</i> ₁₂₀			HNW
54071 2000 <i>GQ</i> ₁₄₆	51.	>0.2	NT0	55273 2001 <i>SY</i>	8.903	0.58	2 W
54076 2000 <i>GL</i> ₁₅₄	4.95	0.25	2 W	55293 2001 <i>SY</i> ₃₉	4.62	0.16	2 W
54108 2000 <i>HU</i> ₉	7.184	0.77	2 W	55312 2001 <i>SK</i> ₆₀	6.578	0.65	2 W
54139* 2000 <i>HZ</i> ₃₆	3.888	0.44–0.67	2 W	55313* 2001 <i>SS</i> ₆₃	8.35	0.70	2 W
54158 2000 <i>HY</i> ₄₈		0.85	W	55324* 2001 <i>SH</i> ₁₀₆	11.130	0.46–0.49	2 W

MINOR PLANET LIGHTCURVE PARAMETERS

Planet	Period	Variation	Note	Planet	Period	Variation	Note
55327 2001 <i>SD</i> ₁₀₉	6.587	0.35	2 W	56501 2000 <i>GG</i> ₁₅₃	19.5	0.85	2- W
55340 2001 <i>ST</i> ₁₂₅	8.65	0.16	2 W	56502* 2000 <i>GY</i> ₁₅₈	7.68	0.28	2 W
55346* 2001 <i>SS</i> ₁₃₉			HNW	56515 2000 <i>HD</i> ₂₀		>0.05	W
55384 2001 <i>SQ</i> ₂₆₇	2.57	0.19	2 W	56523* 2000 <i>HX</i> ₂₅			HNW
55387 2001 <i>SD</i> ₂₇₂	3.05	0.18	2 W	56548* 2000 <i>HZ</i> ₇₄	6.35	0.32-0.58	2+ W
55423 2001 <i>TT</i> ₃₃	37.5	0.15	1 W	56558* 2000 <i>HK</i> ₁₀₀	3.537	0.19-0.24	2 W
55424 2001 <i>TQ</i> ₃₄	17.234	0.43	2 W	56565 2000 <i>JY</i> ₁₂	8.730	0.51	2 W
55430 2001 <i>TY</i> ₅₂	3.0244	0.18	2 W	56570* 2000 <i>JX</i> ₂₁	3.220	0.18-0.22	2 W
55444* 2001 <i>TC</i> ₉₆	>12.0	>0.25	2- W	56585* 2000 <i>JZ</i> ₂₉	5.67	0.80-0.81	3- W
55451 2001 <i>TM</i> ₁₂₃	4.140	0.36	2 W	56586* 2000 <i>JK</i> ₃₁			HNW
55455 2001 <i>TR</i> ₁₃₁	13.250	0.38	2 W	56590 2000 <i>JY</i> ₃₅	6.204	0.53	2 W
55459 2001 <i>TW</i> ₁₃₉	11.308	0.60	2 W	56591* 2000 <i>JP</i> ₃₇		>0.25	
55474 2001 <i>TY</i> ₂₂₉		0.93	I	56613 2000 <i>JX</i> ₆₂	12.721	0.32	2 W
55497 2001 <i>UA</i> ₈₃	3.21	0.37	1+ W	56633 2000 <i>KY</i> ₈	2.39	0.32	2 W
55503 2001 <i>UC</i> ₁₀₀	7.665	0.29	2 W	56647* 2000 <i>KG</i> ₃₄	7.418	0.23-0.32	2 W
55514 2001 <i>VJ</i> ₆	7.1	0.40	2+ W	56662* 2000 <i>KY</i> ₅₆	3.66	0.21	1+ W
55523 2001 <i>VB</i> ₅₁	46.	0.2	1 W	56682 2000 <i>LA</i> ₉	2.54	0.07	2- W
55532* 2001 <i>WG</i> ₂	46.08	0.55	2 T	56702 2000 <i>LQ</i> ₂₈		1.15	W
55545* 2001 <i>XY</i> ₃₄	2.63	0.24	2 W	56713 2000 <i>MC</i> ₃	18.927	0.32	2 W
55565* 2002 <i>AW</i> ₁₉₇	8.86	0.08-0.08	2- 1A	56716 2000 <i>MZ</i> ₃	3.054	0.27	2 W
55567 2002 <i>CS</i> ₆	6.646	0.48	2 W	56762 2000 <i>OB</i> ₂₃	12.330	0.69	2 W
55576 2002 <i>Amycus</i>	9.76	0.16	2- I	56777 2000 <i>OC</i> ₃₉	6.692	0.28	3- W
55578 2002 <i>GK</i> ₁₀₅	14.936	0.37	2 W	56782 2000 <i>OC</i> ₄₆	6.392	0.59	2 W
55592* 2002 <i>PY</i> ₁₂₈	5.617	0.72	3- W	56794* 2000 <i>OO</i> ₆₀	5.00	0.50-0.55	2 W
55601* 2002 <i>RC</i> ₁₁₀	14.54	0.51	1 DAW	56834 2000 <i>QO</i> ₃₅	6.916	0.40	2 W
55606* 2002 <i>RN</i> ₁₅₄	7.01	0.49	2+ W	56875 2000 <i>QE</i> ₁₁₁	5.33	0.48	2 W
55622 2002 <i>TY</i> ₁₄₃	3.374	0.84	2 W	56943 2000 <i>RF</i> ₇₆	6.81	0.71	2 W
55624 2002 <i>TE</i> ₁₉₆	2.971	0.11	2 W	56955* 2000 <i>ST</i> ₁₄	2.81	0.35	2 W
55628 2002 <i>TN</i> ₂₄₉	16.429	0.63	2 W	56958* 2000 <i>ST</i> ₂₈	6.526	0.32-0.33	2 W
55636* 2002 <i>TX</i> ₃₀₀	8.12	0.08-0.09	2 A	56982* 2000 <i>SE</i> ₁₈₉	43.2	0.47	2 W
55637 2002 <i>UX</i> ₂₅	14.382	0.13-0.21	2 HAB	57010* 2000 <i>TP</i> ₁	10.00	0.84	1 DAW
55638 2002 <i>VE</i> ₉₅	6.76	0.05-0.08	1+ 1A	57035 2000 <i>WG</i> ₅₄	4.34	0.26	2 W
55652 4048 <i>P-L</i>		0.57	W	57041* 2001 <i>EN</i> ₁₂	8.562	0.52	2+ HW
55658* 6061 <i>P-L</i>	63.741	0.43-0.58	2 W	57062 2001 <i>NC</i> ₁	3.582	0.35	2 W
55728* 1981 <i>EV</i> ₁₇	9.623	0.80-0.97	2 W	57083 2001 <i>OM</i> ₃₁	3.44805	0.49	3 W
55735 Magdeburg	15.41	0.14	3- W	57108 2001 <i>OS</i> ₇₄	8.683	0.10	1 W
55760 1992 <i>BL</i> ₁	8.0813	0.32	3 W	57112 2001 <i>OC</i> ₈₁	3.128	0.37	2 W
55763 1992 <i>DO</i> ₇	8.21	0.74	2 W	57136* 2001 <i>PE</i> ₂₃	5.64	0.16	2+ W
55776 1993 <i>FH</i> ₁₄	>20.	>0.4	2 W	57137 2001 <i>PH</i> ₂₃	2.690	0.25	2 W
55793 1993 <i>SS</i> ₄	4.756	0.29	2 W	57156* 2001 <i>QM</i> ₁₀			HNW
55798 1994 <i>ES</i> ₅	8.415	0.28	2 W	57169 2001 <i>QN</i> ₁₉	3.434	0.39	2 W
55815 Melindakim	6.117	0.32	2 W	57171 2001 <i>QT</i> ₂₀	12.914	0.10	1 W
55844 Bicak	2.8052	0.10	3 W	57175 2001 <i>QD</i> ₂₄	8.401	0.51	2 W
55849 1996 <i>TZ</i> ₁₁	3.950	0.10	1 W	57189 2001 <i>QX</i> ₃₀	3.219	0.20	2 W
55854 Stoppa	3.067	0.28-0.33	3 W	57194 2001 <i>QP</i> ₃₄	6.880	0.45	2 W
55860 1997 <i>BQ</i> ₆	11.85	0.72	2 W	57212 2001 <i>QM</i> ₆₀	17.3	0.21	2 W
55894 1997 <i>YS</i> ₃	3.162	0.20	2 W	57219* 2001 <i>QY</i> ₇₁	2.885	0.28-0.57	3 W
55902 1998 <i>CO</i> ₂	5.380	0.55	2 W	57232 2001 <i>QD</i> ₇₈	8.807	0.27	2 W
55917 1998 <i>FN</i> ₃₀	9.41	0.34	2 W	57248 2001 <i>QT</i> ₉₁	10.416	0.33	2 W
55924 1998 <i>FE</i> ₅₅	4.81	0.28	2+ W	57251 2001 <i>QO</i> ₉₆	11.313	0.30	2 W
55949* 1998 <i>HZ</i> ₄₅	11.135	0.43-0.50	2 W	57252 2001 <i>QS</i> ₉₆	11.427	0.30	NA
55965 1998 <i>KN</i> ₁₄	8.568	0.27	2 W	57262* 2001 <i>QS</i> ₁₀₆	6.435	0.37-0.40	2 W
56005 1998 <i>SK</i> ₁₆₉	7.33	0.78	2 W	57276 2001 <i>QP</i> ₁₃₉	long	>0.1	
56022* 1998 <i>VL</i> ₂₃	4.337	0.36-0.52	2 W	57277 2001 <i>QV</i> ₁₃₉	3.120	0.30	2 W
56041 Lucindumont	5.6	0.07	1 W	57282 2001 <i>QX</i> ₁₅₅	39.921	0.10	1 W
56047 1998 <i>XK</i> ₃₆	3.932	0.34	2 W	57292* 2001 <i>QV</i> ₁₇₄	3.4064	0.09	2+ W
56056 1998 <i>XP</i> ₅₈	121.071	0.06	1 W	57303 2001 <i>QL</i> ₁₉₈	3.540	0.56	2 W
56062 1998 <i>XD</i> ₉₁	2.82	0.33	2 W	57332 2001 <i>QL</i> ₂₄₆	5.203	0.45	2 W
56070 1998 <i>YQ</i> ₅	4.501	0.20	2 W	57348 2001 <i>QW</i> ₂₈₁	6.976	0.28	2 W
56080* 1999 <i>AN</i> ₃	4.75	0.32-0.33	3- W	57364* 2001 <i>RU</i> ₂₇	11.084	0.25-0.33	2 W
56093* 1999 <i>BM</i> ₅	4.83	0.66-0.67	3- W	57368 2001 <i>RP</i> ₄₄	10.11	0.16	2 W
56150 1999 <i>CT</i> ₁₀₃	2.84	0.08	2+ W	57394* 2001 <i>RD</i> ₈₄	6.74	0.60-0.63	2+ p W
56195* 1999 <i>GX</i> ₆	4.80	0.45	2+ W	57397 2001 <i>RU</i> ₈₆	13.638	0.64	2 W
56208 1999 <i>GY</i> ₃₅	8.664	0.42	2 W	57453 2001 <i>SL</i> ₇₀	148.749	0.08	1 W
56212* 1999 <i>GJ</i> ₄₅	6.626	0.53-0.55	2 W	57454 2001 <i>SZ</i> ₇₀	63.435	0.92	2 W
56227 1999 <i>JT</i> ₂₃	33.911	0.36	2 W	57465 2001 <i>SW</i> ₁₀₈	41.555	0.43	2 W
56232 1999 <i>JM</i> ₃₁	5.6	0.50	2 W	57478 2001 <i>SW</i> ₁₅₁	5.887	0.58	3- W
56238* 1999 <i>JA</i> ₄₆	4.25	1.01	3 W	57490* 2001 <i>ST</i> ₁₇₅	8.21	0.62-0.74	2 W
56248* 1999 <i>JQ</i> ₇₄	4.87	0.48	2+ W	57537* 2001 <i>TQ</i> ₁₃	3.95	0.39	2 W
56264 1999 <i>JV</i> ₉₅	17.3	0.69	2 W	57560 2001 <i>TB</i> ₄₇	9.913	0.60	2+ W
56292* 1999 <i>NK</i> ₄₀	7.90	0.76	1 DAW	57575* 2001 <i>TT</i> ₆₆	4.641	0.47	2 HW
56299* 1999 <i>RT</i> ₄₇	5.739	0.45-0.49	2 W	57648* 2001 <i>TM</i> ₂₀₃	8.359	0.27	2 HW
56313* 1999 <i>SV</i> ₁₄	8.684	0.38-0.45	2 W	57670 2001 <i>UB</i> ₃₀	6.32	0.22	2 W
56318 1999 <i>UR</i> ₃	3.541	0.36	3 W	57689* 2001 <i>UM</i> ₇₃	19.661	0.36-0.43	2 W
56331 1999 <i>XD</i> ₃₃	5.646	0.90	2 W	57708* 2001 <i>UV</i> ₁₁₉	11.85	0.37-0.40	2 W
56367 2000 <i>EF</i>	98.	0.8	2- AT0	57715 2001 <i>UR</i> ₁₂₅	6.296	0.60	2 W
56394* 2000 <i>EB</i> ₁₂₆	9.32	0.57	2+ W	57721 2001 <i>UK</i> ₁₃₉	5.00	0.20	2 W
56436 2000 <i>GZ</i> ₄₆	2.656	0.16	2 W	57731* 2001 <i>UN</i> ₁₅₄	3.72	0.26	1+ W
56452 2000 <i>GU</i> ₈₆	26.760	0.07	1 W	57738 2001 <i>UZ</i> ₁₆₀	20.454	0.57	2 W
56482 2000 <i>GY</i> ₁₁₅	51.5	0.75	2 W	57739 2001 <i>UF</i> ₁₆₂	5.9	0.52	2- W

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Planet	Period	Variation	Note	Planet	Period	Variation	Note
57743 2001 <i>UB</i> ₁₆₈	13.682	0.74	2 W	59263 1999 <i>CK</i> ₃₀		0.69	W
57784 2001 <i>VW</i> ₈₅		>0.5		59271 1999 <i>CG</i> ₃₈	4.85	0.29	2 W
57792* 2001 <i>VQ</i> ₉₄	2.72	0.22	2 W	59285 1999 <i>CP</i> ₅₀	3.933	0.74	2 W
57802 2001 <i>VO</i> ₁₀₈	3.571	0.20	1 W	59286* 1999 <i>CV</i> ₅₁	2.94	0.22	1+ W
57803 2001 <i>VW</i> ₁₀₈	33.458	0.44	2 W	59291 1999 <i>CJ</i> ₅₆	2.884	0.24	2 W
57815 2001 <i>WV</i> ₂₅	6.00	0.30	2- W	59296 1999 <i>CU</i> ₆₄	22.532	0.46	2 W
57822 2001 <i>WV</i> ₄₅	8.07	0.14	2 W	59326 1999 <i>CO</i> ₉₈	3.36	0.10	2 W
57860 2001 <i>XS</i> ₂₁₄	12.923	0.59	2 W	59337 1999 <i>CT</i> ₁₁₁	4.587	0.37	2 W
57868 Pupin	108.10	0.93	3- T0	59345* 1999 <i>CK</i> ₁₃₅	6.19	0.32	2 W
57896 2002 <i>CN</i> ₂₀₁	5.572	0.50	2 W	59363 1999 <i>DP</i> ₇	4.704	0.37	2 W
57897 2002 <i>CV</i> ₂₁₃	14.528	0.25	2 W	59408 1999 <i>FL</i> ₄₀	7.50	0.20	2 W
57915 2002 <i>EB</i> ₁₁₀	7.65	0.36	2+ W	59429* 1999 <i>GK</i> ₈	8.38	0.76	1 DAW
57928 2002 <i>GD</i> ₇₇	38.774	0.34	2 W	59452 1999 <i>GS</i> ₃₄	8.441	0.41	2 W
57932* 2002 <i>GA</i> ₁₆₁	8.07	0.98	2 W	59462 1999 <i>GQ</i> ₄₅	4.598	0.96	2 W
57971 2002 <i>NJ</i> ₄₁	70.117	0.08	1 W	59489 1999 <i>JQ</i> ₂	5.455	0.54	2 W
58012 2002 <i>TM</i> ₂₉₀	10.348	0.17	2 W	59490 1999 <i>JD</i> ₄	18.8363	0.90	3- W
58049* 2002 <i>XY</i> ₈₆	5.376	0.39-0.51	2 W	59491 1999 <i>JO</i> ₄	3.113	0.15	2 W
58055 2003 <i>AH</i> ₆	2.87	0.15	2 W	59493 1999 <i>JG</i> ₅	57.4	0.90	3- T0
58085 1199 <i>T-3</i>	110.045	0.80	2 W	59499 1999 <i>JP</i> ₈	5.017	0.30	2 W
58097 Alimov	78.173	0.26	2 W	59506 1999 <i>JD</i> ₁₁	4.024	0.69	2 W
58118 1981 <i>EX</i> ₇	5.665	0.06	1 W	59528* 1999 <i>JK</i> ₂₄	4.21	0.65	3- W
58119 1981 <i>EJ</i> ₉		0.14		59530 1999 <i>JU</i> ₂₄	3.005	0.18	2 W
58120 1981 <i>EU</i> ₁₁	44.111	0.55	2 W	59555 1999 <i>JE</i> ₄₁	5.39	0.53	2 W
58155* 1988 <i>VD</i>	7.093	0.36	2+ T?	59573* 1999 <i>JK</i> ₄₉	7.013	0.64-0.71	2 W
58171* 1990 <i>SC</i> ₅			HNW	59575 1999 <i>JB</i> ₅₁	67.312	0.73	2 W
58186* Langkavel	2.61	0.22	2 W	59585* 1999 <i>JV</i> ₅₅	5.08	0.63	2+ W
58192 1992 <i>AQ</i>	10.124	0.59	2 W	59615* 1999 <i>JT</i> ₆₉	4.87	0.64	3 W
58207 1992 <i>EF</i> ₁₄	7.1	0.28	1 N	59636* 1999 <i>JJ</i> ₈₁	3.7	0.20	2- W
58239* 1993 <i>FS</i> ₇₇	12.00	0.38	1+ W	59639 1999 <i>JS</i> ₈₃	8.020	0.09	1 W
58288 1994 <i>CF</i> ₁₄	3.604	0.52	2 W	59669 1999 <i>JM</i> ₉₉	5.991	0.32	2 W
58289* 1994 <i>CC</i> ₁₆	2.72	0.18	2 W	59712 1999 <i>JN</i> ₁₂₆	19.689	0.61	2 W
58337 1994 <i>WV</i>	2.6	0.15	1 W	59714 1999 <i>JG</i> ₁₂₈	9.724	0.51	2 W
58359 1995 <i>KP</i> ₄	4.796	0.54	2 W	59748 1999 <i>LE</i> ₁₄	6.65	0.06	2 W
58408 1995 <i>XU</i>	7.383	1.10	2 W	59778 1999 <i>NO</i> ₃₉	5.52	0.79	2 W
58417 Belzoni	5.924	0.43	2 W	59812 1999 <i>RA</i> ₁₈		0.62	W
58433 1996 <i>FN</i> ₁₈	6.187	0.77	2 W	59855 1999 <i>RD</i> ₈₆	4.939	0.37	2 W
58477 1996 <i>RB</i> ₂₆	5.1371	0.85	3 W	59857 1999 <i>RF</i> ₉₃	5.112	0.42	2 W
58480* 1996 <i>RJ</i> ₃₃	32.967	0.14	2 HW	59868 1999 <i>RH</i> ₁₀₆	5.116	0.41	2 W
58534* Logos			HNW	59879 1999 <i>RM</i> ₁₁₉	2.026	0.09	1 W
58540 1997 <i>ET</i> ₁₇	4.509	0.41	2 W	59881 1999 <i>RZ</i> ₁₂₁	2.179	0.37	2 W
58541* 1997 <i>EA</i> ₁₈	7.69	0.65-0.72	3- W	59884 1999 <i>RW</i> ₁₂₃	8.698	0.56	2 W
58544* 1997 <i>EK</i> ₄₂	9.996	0.34-0.35	2 W	59893 1999 <i>RY</i> ₁₃₇	5.564	0.32	2 W
58595* Joepollock	2.63	0.34	2 W	59915 1999 <i>RF</i> ₁₅₉	4.820	0.33	2 W
58605 Liutungsheng	4.78	0.80	2+ W	59917 1999 <i>RC</i> ₁₆₁	9.339	0.30	2 W
58613 1997 <i>UN</i> ₇	45.714	0.22	2 W	59931 1999 <i>RZ</i> ₁₇₉	7.529	0.08	1 W
58623 1997 <i>VZ</i> ₁	10.194	0.64	2 W	59939* 1999 <i>RW</i> ₁₉₂	4.159	0.28-0.34	2 W
58651 1997 <i>WL</i> ₄₂	938.158	0.47	2 W	59940 1999 <i>RT</i> ₁₉₇	11.783	0.10	1 W
58653 1997 <i>WV</i> ₄₅	4.233	0.83	2 W	59942 1999 <i>RZ</i> ₁₉₇	33.379	0.61	2 W
58658* 1997 <i>WY</i> ₅₇	4.95	0.21-0.33	2 W	59962 1999 <i>RL</i> ₂₃₄	13.8	0.38	2- W
58673 1997 <i>YA</i> ₉	9.731	0.52	2 NA	59985 1999 <i>SN</i> ₁₁	29.721	0.09	1 W
58677* 1997 <i>YJ</i> ₁₇	9.631	0.63	2 AW	60014 1999 <i>TW</i> ₂₇	7.414	0.51	2 W
58686* 1998 <i>BB</i> ₁	3.58	0.24	2 W	60022 1999 <i>TX</i> ₄₄	5.834	0.56	2 W
58688 1998 <i>BJ</i> ₄	20.789	0.10	1 W	60024 1999 <i>TW</i> ₄₇	109.908	0.28	2 W
58699 1998 <i>BK</i> ₄₂	7.366	0.18	2 W	60030 1999 <i>TE</i> ₈₉	5.337	0.37	2 W
58703 1998 <i>BH</i> ₄₄	5.25	0.14	2 W	60042 1999 <i>TF</i> ₁₀₂	29.215	0.22	2 W
58704 1998 <i>BA</i> ₄₆	87.298	0.48	2 W	60048 1999 <i>TS</i> ₁₀₄	7.16	0.31	2 W
58715 1998 <i>DK</i> ₃	3.499	0.36	2 W	60052 1999 <i>TM</i> ₁₀₇	7.175	0.53	2 W
58789 1998 <i>FK</i> ₈₀	7.940	0.49	2 W	60055 1999 <i>TB</i> ₁₁₂	6.561	0.66	2 W
58798 1998 <i>FU</i> ₁₀₀	31.497	0.69	2 W	60057 1999 <i>TC</i> ₁₁₇	15.613	0.29	2 W
58819 1998 <i>HF</i> ₃	5.757	0.94	2 W	60082 1999 <i>TL</i> ₁₅₀	66.541	0.56	2 W
58854 1998 <i>HV</i> ₈₇	4.954	0.63	2 W	60089* 1999 <i>TK</i> ₁₅₄	2.71	0.37	3 W
58871* 1998 <i>HX</i> ₁₁₄	4.538	0.42-0.46	2 W	60091* 1999 <i>TG</i> ₁₅₆	3.60	0.16-0.29	2 W
58922* 1998 <i>KK</i> ₅₈	8.35	0.74	2 W	60096 1999 <i>TG</i> ₁₆₆	5.209	0.65	2 W
58933 1998 <i>ON</i> ₁₀	6.187	0.42	2 W	60099* 1999 <i>TW</i> ₁₇₃	9.23	0.38-0.43	2 W
58948 1998 <i>QT</i> ₅₄	9.574	0.33	2 W	60102 1999 <i>TY</i> ₁₈₂	8.202	0.30	2 W
58952* 1998 <i>QO</i> ₇₄	7.514	0.63-0.76	2 W	60108 1999 <i>TF</i> ₂₀₅	4.202	0.60	2 W
58999 1998 <i>SP</i> ₂₃	10.785	0.26	2 W	60143 1999 <i>TV</i> ₂₉₂	3.598	0.54	2 W
59007 1998 <i>SF</i> ₆₃	2.228	0.10	1 W	60147 1999 <i>TC</i> ₃₂₀	36.381	0.28	2 W
59014 1998 <i>SC</i> ₇₄	5.524	0.51	2 W	60151* 1999 <i>UZ</i> ₆	13.8836	0.75	3 p
59037 1998 <i>SU</i> ₁₄₀	7.385	0.07	1 W	60178 1999 <i>VY</i> ₆	5.186	0.64	2 W
59046 1998 <i>TW</i> ₁₇	4.027	0.34	2 W	60216 1999 <i>VG</i> ₈₂	5.288	0.59	2 W
59049* 1998 <i>TC</i> ₃₁	6.173	0.65-0.69	2+ W	60271 1999 <i>XN</i> ₅₆	5.82	0.48	2 W
59057* 1998 <i>UO</i> ₁₈	5.398	0.85-0.89	2 W	60310 1999 <i>XD</i> ₂₁₅	126.608	0.62	2 W
59078 1998 <i>VT</i> ₁₉	4.274	0.16	2 W	60326 1999 <i>YB</i> ₂₃	18.993	0.24	2 W
59143* 1998 <i>XT</i> ₇₂	2.416	0.14-0.15	2 W	60332* 2000 <i>AJ</i> ₃₅	6.557	0.84-0.92	2 W
59180* 1999 <i>AP</i> ₁₂	7.747	0.58-0.80	2 W	60335 2000 <i>AR</i> ₄₂	5.25	0.69	3- W
59186 1999 <i>AK</i> ₁₆	4.68	0.67	2 W	60337 2000 <i>AF</i> ₅₁	5.428	0.87	2 W
59238 1999 <i>CN</i> ₂	2.64	0.14	2 W	60348* 2000 <i>AT</i> ₈₁	6.23	0.79	2 W
59249 1999 <i>CZ</i> ₁₅	2.862	0.32	2 W	60365 2000 <i>AT</i> ₁₀₉	long	>0.2	W
59255* 1999 <i>CB</i> ₂₆	7.341	0.29-0.35	2 W	60371 2000 <i>AN</i> ₁₃₉	5.071	0.26	2 W

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Planet	Period	Variation	Note	Planet	Period	Variation	Note
60398 2000 AG ₂₅₁		1.03	I	61945 2000 RO ₁₃	30.154	0.87	2 W
60403 2000 BK ₃₀	2.94	0.31	2 W	61983 2000 RN ₃₀	9.909	0.56	2 W
60411* 2000 CP ₂₀	5.30	0.59	3- W	62012 2000 RJ ₄₁	4.01		N
60429 2000 CJ ₅₂	2.761	0.26	2 W	62018 2000 RV ₄₂	12.639	0.10	1 W
60446 2000 CA ₈₈	15.035	0.52	2 W	62043 2000 RH ₆₅		0.81	W
60458* 2000 CM ₁₁₄			HNB	62071 Voegtli	15.604	0.45	2 W
60466 2000 DK ₁₂	3.536	0.06	1 W	62074* 2000 RL ₇₉	18.808	0.24-0.25	2 W
60475* 2000 DC ₃₆	2.58	0.34	1 W	62110 2000 RX ₉₇	4.757	0.71	2 W
60495 2000 DF ₈₈	5.717	0.45	2 W	62112* 2000 RM ₉₉	7.038	0.54-0.73	2 W
60507 2000 DG ₁₀₆	9.411	0.54	2 W	62117 2000 RC ₁₀₂	13.5	0.09	2 W
60527* 2000 EE ₄₃	6.01	0.36-0.44	2 W	62122 2000 RS ₁₀₂	2.691	0.10	1 W
60552* 2000 EO ₈₉	29.213	0.56-0.70	2 W	62128 2000 SO ₁	6.706	0.45	3-
60558 Echeclus	26.802	0.24	2 W	62160 2000 ST ₂₅	14.059	0.26	2 W
60569 2000 EH ₁₁₂	15.152	0.17	2 W	62209 2000 SF ₆₁	7.56	0.34	2 W
60570* 2000 ET ₁₁₃	3.914	0.23-0.28	2 W	62212* 2000 SA ₆₂	10.2708	0.23-0.46	3 W
60584 2000 EW ₁₃₂	2.927	0.10	1 W	62213 2000 SL ₆₃	3.68	0.35	2 W
60589 2000 EU ₁₃₉	10.177	0.49	2 W	62218* 2000 SK ₆₅	20.138	0.39-0.45	2 W
60601 2000 EQ ₁₅₇	19.670	0.47	2 W	62298 2000 SK ₁₁₆	84.864	0.51	2 W
60621* 2000 FE ₈			HNB	62325* 2000 SC ₁₂₄	7.74	0.17	2 W
60636 2000 FH ₃₀	3.908	0.28	2 W	62340 2000 SO ₁₃₀	128.022	0.62	2 W
60637 2000 FX ₃₀	3.23	0.21	1 W	62348 2000 SB ₁₄₂	7.889	0.58	2 W
60646* 2000 FJ ₃₉	6.08	0.71	3 W	62379 2000 SA ₁₅₅	4.391	0.30	2 W
60679* 2000 GE ₂₄	5.544	0.74-0.87	2 W	62408* 2000 SU ₁₇₆	3.197	0.17	3 W
60696 2000 GQ ₄₃	7.849	0.67	2 W	62409 2000 SR ₁₇₇	4.398	0.71	2 W
60705* 2000 GU ₅₅	3.57	0.48	3- W	62410 2000 SN ₁₇₈	76.736	0.49	2 W
60716 2000 GD ₆₅	1.9529	0.24-0.29	3 W	62412 2000 SY ₁₇₈	3.33	0.45	3-
60802 2000 HK ₁₅	5.192	0.38	2 W	62468 2000 SA ₂₁₄	11.971	0.97	2 W
60816* 2000 HO ₃₄	5.65	0.68	2+ W	62565* 2000 SU ₂₇₂	3.34	0.66	3 W
60844* 2000 HF ₆₂	5.11	0.69	2+ W	62575 2000 SL ₂₇₈	90.573	0.65	2 W
60853 2000 HZ ₆₅	12.97	0.46	2 W	62595 2000 SW ₃₀₆	67.175	0.54	2 W
60864 2000 HM ₇₅	3.385	0.26	2 W	62606* 2000 SK ₃₂₅	32.007	0.87-1.15	2 W
60866 2000 HM ₇₉	3.866	0.33	2 W	62651 2000 SB ₃₆₄	6.147	0.49	2 W
60896 2000 JB ₂₃	22.584	0.28	2 W	62670* 2000 TK ₈	2.94	0.76	1 W
60943 2000 JV ₅₅	5.278	0.27	2 W	62694 2000 TV ₂₄	5.598	0.31	2 W
60949 2000 JM ₆₁	185.337	0.08	1 W	62715 2000 TR ₄₃	4.036	0.38	2 W
60957 2000 JD ₇₁	8.101	0.59	2 W	62731 2000 TO ₅₉	7.291	0.55	2 W
61000 2000 KD ₃₁	5.064	0.24	2 W	62734 2000 TX ₆₀	3.983	0.21	2 W
61027 2000 KP ₅₃	7.816	0.38	2 W	62781 2000 UE ₂₃	28.94	1.1	NA
61036 2000 KC ₅₉	6.617	0.71	2 W	62828 2000 UN ₅₃	11.0	0.33	2 W
61057 2000 KD ₇₆	14.538	0.91	2 W	62842* 2000 UF ₆₃	7.94	0.79	1 DAW
61140 2000 NR ₅	3.2099	0.41	3 W	62850 2000 UC ₇₂	17.389	0.27	2 W
61195* Martinoli	3.191	0.37-0.44	2 W	62853 2000 UO ₇₆	129.300	0.88	2 W
61207 2000 OZ ₇	3.921	0.15	2 W	62854 2000 UW ₇₆	14.7	0.85	2-
61213 2000 OK ₁₀	3.814	0.18	2 W	62872 2000 UC ₈₇	21.131	0.28	2 W
61233 2000 ON ₁₅	8.89	0.13	2 W	62887 2000 UX ₉₅	3.858	0.51	2 W
61238 2000 OF ₁₇	4.169	0.79	2 W	62925 2000 VE ₁₄	14.737	0.48	2 W
61259 2000 OG ₂₆	6.360	0.26	2 W	62996 2000 WG ₁₆	15.506	0.39	2 W
61263 2000 OR ₂₈	2.53	0.30	N	63029 2000 WH ₅₇	8.693	0.19	NA
61279* 2000 OF ₃₅	2.57	0.47	2 W	63062 2000 WL ₁₁₈	7.334	0.64	2 W
61280* 2000 OH ₃₅	6.449	0.38-0.50	2 W	63098 2000 WC ₁₄₆	6.215	0.66	2 W
61303 2000 OY ₄₇	4.62	0.79	1+ W	63110 2000 WQ ₁₅₈	3.584	0.26	2 W
61327* 2000 OR ₅₇	6.71	0.35	2 W	63143 2000 XS ₁	2.586	0.32	2 W
61352 2000 PY ₉	8.832	0.05	1 W	63148 2000 XQ ₁₉	26.979	0.20	2 W
61358 2000 PK ₁₂	2.57	0.15	2- W	63158 2000 YA ₄	12.80	0.66	2 W
61378* 2000 PU ₂₈	4.69	0.61-0.90	2+ W	63166 2000 YW ₁₇	9.952	0.66	2 p W
61388 2000 QA ₃	8.315	0.21	2 W	63195 2000 YN ₁₂₀	7.113	0.56	2 W
61397* 2000 QF ₅	6.94	0.64-0.67	3 W	63201 2000 YH ₁₂₉	6.846	0.64	2 W
61421* 2000 QU ₁₄	4.87	0.71	2 W	63213* 2001 AY ₁₈	6.44	0.63	2 W
61429 2000 QF ₁₇	21.620	0.38	2 W	63235* 2001 BV ₂₀	4.49	0.34-0.37	2 W
61445* 2000 QF ₂₅	10.5	0.40-0.50	2 W	63239* 2001 BD ₂₅	60.075	0.54	2+ HW
61461 2000 QA ₃₁	12.2	0.62	2 W	63241 2001 BJ ₂₆		1.21	I
61479* 2000 QH ₃₉	4.89	0.62-0.74	3- W	63260 2001 CN	8.76	0.79	3-
61480 2000 QY ₃₉		0.57	W	63264* 2001 CP ₅	7.74	0.30	2- W
61547 2000 QO ₆₆	5.359	0.90	2 W	63271 2001 CN ₃₄	5.704	0.25	N
61599 2000 QR ₉₁	2.296	0.18	2 W	63287 2001 DT ₇₉	17.682	0.10	
61610 2000 QK ₉₅	64.499	0.77	2 W	63311 2001 FD ₂₄	8.443	0.97	2 W
61626 2000 QA ₁₀₂	5.165	0.43	2 W	63368* 2001 HQ ₇	2.84	0.37	1+ W
61630 2000 QP ₁₀₂	5.135	0.58	2 W	63376 2001 HA ₃₈	9.439	0.14	NA
61631* 2000 QX ₁₀₂	4.038	0.20-0.22	2 W	63410 2001 KQ ₃₉	6.967	0.49	2 W
61652* 2000 QO ₁₁₂	3.367	0.07	2 W	63427 2001 MB	3.168	0.09	1 W
61675 2000 QQ ₁₂₂	7.181	0.50	2 W	63429 2001 MH ₅	9.221	0.70-0.78	2 W
61679 2000 QH ₁₂₄	13.71	0.40	2 W	63432* 2001 MY ₁₄			HNW
61717* 2000 QU ₁₄₂	3.16	0.52-0.59	3- W	63433 2001 MZ ₁₇	4.448	0.34	2 W
61750 2000 QD ₁₅₇	331.564	0.84	2 W	63440 2001 MD ₃₀	3.29687	0.13-0.18	3 W
61774* 2000 QV ₁₇₁	9.127	0.67-0.76	2 W	63444 2001 ND ₈	7.087	0.25	2 W
61791 2000 QV ₁₈₂	3.475	0.25	2 W	63459 2001 OT ₇	4.781	0.54	2 W
61830 2000 QA ₁₉₆	4.813	0.53	2 W	63475 2001 OB ₃₂	12.47	0.22	2 W
61888 2000 QO ₂₂₀	60.391	0.52	2 W	63485 2001 OO ₄₉	14.664	0.52	2 W
61905* 2000 QF ₂₃₀	7.11	0.24	1+ W	63508 2001 OQ ₈₁	3.63	0.2	2 A
61907 2000 QK ₂₃₀	6.44	0.65	2+ W	63513 2001 OV ₉₆	7.886	0.60	2 W

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Planet	Period	Variation	Note	Planet	Period	Variation	Note
63522* 2001 <i>PP</i>	7.33	0.84	1 W	65200 2002 <i>CL</i> ₂₉₄	2.4206	0.48	NA
63537 2001 <i>PS</i> ₃₃	4.101	0.40	2 W	65203 2002 <i>DU</i>	6.518	0.70	2 W
63548 2001 <i>PD</i> ₅₈	3.800	0.40	2 W	65210* <i>Stichius</i>	35.087	0.41	2 HW
63573* 2001 <i>QG</i> ₂₃	2.20	0.15	2 W	65223* 2002 <i>EU</i> ₃₄	252.	0.44	2 HW
63578* 2001 <i>QD</i> ₂₈	7.483	0.39–0.47	2 W	65225* 2002 <i>EK</i> ₄₄	13.43	0.85	2 I
63614 2001 <i>QF</i> ₇₇	2.836	0.14	2 W	65227* 2002 <i>ES</i> ₄₆	7.066	0.07	1 HW
63617* 2001 <i>QO</i> ₇₈			2 HNW	65240* 2002 <i>EU</i> ₁₀₆	230.	0.09	1 HW
63628 2001 <i>QN</i> ₈₀	16.852	0.59	2 W	65242 2002 <i>EW</i> ₁₁₅	5.168	0.39	2 W
63633 2001 <i>QR</i> ₈₄	5.2	0.18	2–	65257* 2002 <i>FU</i> ₃₆	17.863	0.50	2+ HW
63634 2001 <i>QU</i> ₈₆	3.46	0.63	2–	65264 2002 <i>GW</i> ₁₆	6.218	0.30	2 W
63660 2001 <i>QV</i> ₁₁₉	14.846	0.21–0.47	2 W	65270 2002 <i>GC</i> ₃₈	9.136	0.67	2 W
63679* 2001 <i>QN</i> ₁₄₅	3.78	0.56–0.65	2 W	65276 2002 <i>GR</i> ₇₈	8.238	0.69	2 W
63702 2001 <i>QK</i> ₁₈₂	4.66	0.14	2 W	65287 2002 <i>HL</i> ₁₁	2.924	0.23	2 W
63712 2001 <i>QH</i> ₂₀₀	14.620	0.33	2 W	65301* 2002 <i>JP</i> ₄₈	4.19	0.84	1+ W
63728 2001 <i>QW</i> ₂₃₇	6.00	0.17	2 W	65312 2002 <i>JP</i> ₇₆	18.145	0.60	2 W
63730* 2001 <i>QB</i> ₂₃₉	4.320	0.40–0.43	2 W	65342* 2002 <i>NL</i> ₁₃	10.91	0.50	1 W
63736 2001 <i>QF</i> ₂₄₉	4.202	0.43	2 W	65345 2002 <i>NF</i> ₁₉	14.148	0.35	2 W
63802* 2001 <i>RV</i> ₂₈			2 HNW	65384 2002 <i>PC</i> ₁₃₆	50.	0.3	1 W
63827 2001 <i>RP</i> ₇₁			2 W	65389 2002 <i>RF</i> ₁₂		1.02	1 I
63829* 2001 <i>RM</i> ₇₂	18.64	0.51	1 DAW	65395 2002 <i>RY</i> ₆₃	15.48	0.54	2 W
63844* 2001 <i>RK</i> ₈₀	3.261	0.41–0.59	2 W	65407 2002 <i>RP</i> ₁₂₀	200.	0.6	2 TO
63851 2001 <i>RH</i> ₈₇	2.672	0.47	2 W	65433 2002 <i>TX</i> ₂₃₈	6.5888	0.54–0.72	3 W
63894 2001 <i>SN</i> ₅	8.57	0.60	2 W	65465 2002 <i>XQ</i> ₂₀	3.63	0.60	3– W
63913* 2001 <i>SG</i> ₃₂	8.314	0.73–0.89	2 W	65489 Ceto	4.43	0.08	2 B
63923 2001 <i>SV</i> ₄₁	8.759	0.34	2 W	65507 4151 <i>P–L</i>	7.510	0.10	1 W
63968* 2001 <i>SG</i> ₇₁	3.19	0.60–0.61	3 W	65510 4241 <i>P–L</i>	9.295	0.50	2 W
63987* 2001 <i>SP</i> ₁₀₆	7.74	0.70	2 W	65542 1143 <i>T–1</i>	13.170	0.08	1 W
64020* 2001 <i>SN</i> ₁₅₂			2 HNW	65597 3047 <i>T–3</i>	7.6	0.14	2– A
64036 2001 <i>SO</i> ₁₉₀	11.29	0.64	2 W	65619 4218 <i>T–3</i>	6.40	0.33	2 W
64107 2001 <i>TK</i> ₈	68.5	1.31	2 T?	65637 Tsnimash	220.	0.90	3 T
64135 2001 <i>TM</i> ₃₂	38.144	0.34	2 W	65679 1989 <i>UQ</i>	7.733	0.27	2 W
64175* 2001 <i>TT</i> ₆₁	4.68	0.36	2 W	65706 1992 <i>NA</i>	6.992	0.37	2 W
64178* 2001 <i>TO</i> ₆₃	3.73	0.38–0.40	3– W	65715* 1992 <i>WV</i> ₁	5.89	0.13	1+ W
64198* 2001 <i>TK</i> ₇₇	2.51	0.47	1+ W	65717 1993 <i>BX</i> ₃	20.463	0.91	2 TO
64230 2001 <i>TC</i> ₁₁₇	5.086	0.41	2 W	65719* 1993 <i>FY</i> ₁₇	7.18	0.83–0.96	2 W
64246* 2001 <i>TC</i> ₁₆₀	4.101	0.21–0.24	2 W	65733 1993 <i>PC</i>	4.184	0.73–0.97	3– W
64270 2001 <i>TA</i> ₁₉₇		1.25	1 I	65736* 1993 <i>QH</i> ₇	7.16	0.45	2 W
64289* Shihwingching	2.67	0.27	3– W	65739 1993 <i>SG</i> ₁₃	2.8	0.40	2– W
64292 2001 <i>UF</i> ₁₃	15.438	0.64	2 W	65765 1994 <i>UR</i> ₁	8.451	0.76	2 W
64301 2001 <i>UN</i> ₁₉	6.51	1.07	2 W	65784 Naderayama	6.592	0.10	2 N
64372 2001 <i>UQ</i> ₁₁₃	9.60	0.26	2 W	65795 1995 <i>WQ</i> ₂₇	2.76	0.23	2 W
64379 2001 <i>UG</i> ₁₂₃	12.82	0.60	2 W	65803* Didymos	2.2593	0.08–0.10	3 p B
64387 2001 <i>UW</i> ₁₄₄		0.55	2 W	65821 1996 <i>UC</i> ₃	6.44	0.71	2 W
64390 2001 <i>UY</i> ₁₄₉		1.5	1 I	65877 1997 <i>XK</i> ₁	2.979	0.13	2 W
64391 2001 <i>UF</i> ₁₅₀	6.85	0.80	2 W	65909 1998 <i>FH</i> ₁₂	3.		2 R
64392 2001 <i>UL</i> ₁₅₀	4.379	0.84	2 W	65926 1998 <i>FN</i> ₅₅	2.891	0.10	1 W
64419 2001 <i>UG</i> ₁₈₆	14.33	0.48	2 W	65966 1998 <i>HH</i> ₈	4.363	0.10	1 W
64480 2001 <i>VG</i> ₄₅	6.49717		2 Ns	65975 1998 <i>HV</i> ₄₆	19.762	0.49	2 W
64530* 2001 <i>VF</i> ₁₁₀	7.458	0.30–0.35	2 W	65976 1998 <i>HF</i> ₅₁	10.743	0.76	2 W
64572 2001 <i>WA</i> ₃₉	4.543	0.66	2 W	65978 1998 <i>HS</i> ₉₈	2.795	0.32	2 W
64588 2001 <i>XX</i> ₃	5.8288	0.83	3	65991 1998 <i>KL</i> ₃₆	5.007	0.43	2 W
64679* 2001 <i>XU</i> ₆₈	5.59	0.26	2–	65994* 1998 <i>KE</i> ₅₃			2 HNW
64706* 2001 <i>XH</i> ₉₀	7.11	0.93	2 W	66008 1998 <i>QH</i> ₂	7.09	0.13	2+ W
64707 2001 <i>XA</i> ₉₁	53.970	0.53	2 W	66015 1998 <i>QW</i> ₂₅	10.532	0.28	2 W
64772 2001 <i>XY</i> ₁₈₀	3.942	0.76	2 W	66037 1998 <i>QD</i> ₇₄	4.860	0.30	2+ W
64778* 2001 <i>XL</i> ₁₈₉	3.81	0.21	1 W	66039* 1998 <i>QS</i> ₇₄	6.62	0.25	2+ W
64787* 2001 <i>XH</i> ₂₀₀	2.84	0.30	3–	66063 1998 <i>RO</i> ₁	2.4924	0.13–0.16	3 p B
64792 2001 <i>XL</i> ₂₀₆	8.934	0.36	2 W	66067 1998 <i>RM</i> ₁₉	10.32	0.49	2 W
64796 2001 <i>XM</i> ₂₀₇	8.731	0.48	2 W	66068 1998 <i>RG</i> ₂₆	4.232	0.11	2 W
64801 2001 <i>XH</i> ₂₁₀	19.020	0.39	2 W	66076 1998 <i>RD</i> ₅₃	8.93855		2 p Ns
64807* 2001 <i>XD</i> ₂₁₃	6.53	0.41	3– W	66092 1998 <i>SD</i>	448.	0.42	2 TO
64837 2001 <i>YE</i> ₂	3.495	0.39	2 W	66103 1998 <i>SJ</i> ₂₄	9.380	0.61	2 W
64889 2001 <i>YA</i> ₇₆	5.71	0.61	2 W	66146 1998 <i>TU</i> ₃	2.375	0.07–0.15	3 W
64897 2001 <i>YX</i> ₈₁	5.30	0.12	1 W	66187 1998 <i>XS</i> ₇₃	31.034	0.55	2 W
64907 2001 <i>YT</i> ₈₉	4.294	0.80	2 W	66189* 1998 <i>XA</i> ₉₇	7.88	0.39–0.50	3 W
64918* 2001 <i>YB</i> ₉₉	5.55	0.34–0.36	2 W	66190 1998 <i>YX</i> ₅	25.778	0.15	2 W
64939 2001 <i>YP</i> ₁₁₆	32.956	0.49	2 W	66191* 1998 <i>YS</i> ₆	4.19	0.36	2 W
64941* 2001 <i>YJ</i> ₁₁₈	9.38	0.53–0.55	3– W	66193 1999 <i>AF</i> ₂₂	8.00	0.26	2 W
64963* 2001 <i>YP</i> ₁₄₄	137.197	0.64–0.65	2 W	66201 1999 <i>BC</i> ₂₀	6.760	0.09	1 W
64995* 2002 <i>AV</i> ₅₇	5.08	0.40	2 W	66234 1999 <i>CZ</i> ₁₅₇	2.929	0.38	2 W
65019 2002 <i>AC</i> ₉₉	7.700	0.83	2 W	66251 1999 <i>GJ</i> ₂	2.4621	0.10–0.13	3 W
65025 2002 <i>AS</i> ₁₀₆	10.689	0.28	2 W	66295 1999 <i>JC</i> ₂₉	5.551	0.59	2 W
65056 2002 <i>AH</i> ₁₇₀	4.252	0.62	2 W	66308 1999 <i>JX</i> ₄₀	18.026	0.32	2 W
65068 2002 <i>AK</i> ₁₈₆	8.763	0.83	2 W	66328 1999 <i>JK</i> ₅₈	32.682	0.25	2 W
65108 2002 <i>CR</i> ₃₃	10.854	0.55	2 W	66335 1999 <i>JZ</i> ₆₁	12.9620	0.47	3 W
65109* 2002 <i>CV</i> ₃₆	9.402	0.77–0.80	2 W	66340* 1999 <i>JX</i> ₆₅	>62.	>1.	2 HNW
65116* 2002 <i>CH</i> ₅₁	15.199	0.27–0.32	2 W	66368 1999 <i>JP</i> ₉₈	97.219	0.49	2 W
65122 2002 <i>CB</i> ₅₉	4.092	0.47	2 W	66372* 1999 <i>JV</i> ₁₁₄	8.02	0.60–0.69	3 W
65155 2002 <i>CP</i> ₁₄₀	4.78	0.70	2 W	66391* 1999 <i>KW</i> ₄	2.7650	0.12	3 p B
65191 2002 <i>CR</i> ₂₅₇	5.46	0.62	2 W	66419* 1999 <i>NR</i> ₁₃	56.71	0.80–0.80	3 W

MINOR PLANET LIGHTCURVE PARAMETERS

Planet	Period	Variation	Note	Planet	Period	Variation	Note
66468* 1999 <i>RL</i> ₁₇	63.454	0.43–0.79	2 W	67949* 2000 <i>WY</i> ₁₅₉	4.42	0.82	2 W
66491 1999 <i>RG</i> ₅₄	2.868	0.39	2 W	67952 2000 <i>WH</i> ₁₆₆	13.611	0.74	2 W
66524* 1999 <i>RQ</i> ₁₀₂	11.050	0.80–1.10	2 W	67979 Michelory	5.335	0.18	2 W
66527 1999 <i>RD</i> ₁₀₄	5.008	0.48	2 W	67983* 2000 <i>XY</i> ₁₆	14.590	0.50–0.57	2 W
66545 1999 <i>RJ</i> ₁₂₀	14.8	0.79	2– W	67986 2000 <i>XJ</i> ₁₇	7.933	0.37	2 W
66584 1999 <i>RM</i> ₁₆₁	9.06	0.11	2+	67997 2000 <i>XA</i> ₂₉	8.007	0.83	2 W
66595* 1999 <i>RU</i> ₁₇₈	5.698	0.66–0.77	2 W	68031 2000 <i>YK</i> ₂₉	4.45	0.05	1
66625* 1999 <i>RE</i> ₂₀₅	13.128	0.39–0.44	2 W	68045 2000 <i>YN</i> ₄₄	4.35	0.17	2+
66652 Borasisi		<0.05	HB	68063* 2000 <i>YJ</i> ₆₆	2.1102	0.14	3– B
66678* 1999 <i>TR</i> ₂₈	5.449	0.45–0.61	2 W	68081 2000 <i>YQ</i> ₉₇	12.97	0.42	2 W
66718* 1999 <i>TU</i> ₁₀₄	12.80	0.77	2– DAW	68099 2000 <i>YX</i> ₁₁₈	4.018	0.71	2 W
66722* 1999 <i>TC</i> ₁₀₇	9.664	0.35–0.58	2 W	68134 2001 <i>AT</i> ₁₈	7.105	1.13	3
66732* 1999 <i>TW</i> ₁₁₁	8.55	0.60–0.70	2+ W	68181 2001 <i>BK</i> ₄₉	5.0366	0.82	3
66738* 1999 <i>TJ</i> ₁₂₀	9.90	0.92	3– W	68216 2001 <i>CV</i> ₂₆	2.4290	0.12–0.24	3
66742 1999 <i>TP</i> ₁₂₃	12.702	0.23	2 W	68227* 2001 <i>DZ</i> ₂₀	6.58	0.74	2 W
66759 1999 <i>TU</i> ₁₈₅	3.209	0.29	2 W	68233* 2001 <i>DY</i> ₃₅	3.66	0.21	2– W
66764 1999 <i>TD</i> ₁₉₀	12.80	0.26	2 W	68242 2001 <i>DW</i> ₅₉	4.897	0.09	1 W
66765 1999 <i>TJ</i> ₁₉₁	7.473	0.82	2 W	68278* 2001 <i>FC</i> ₇	4.230	0.22	2 W
66775 1999 <i>TS</i> ₂₂₀	138.288	0.49	2 W	68313 2001 <i>FK</i> ₁₁₈	5.964	0.66	2 W
66807 1999 <i>TD</i> ₂₈₈	3.920	0.70	2 W	68339 2001 <i>KR</i> ₂₄	5.472	0.60	2 W
66824 1999 <i>UM</i> ₂₆	9.681	0.27	2 W	68346* 2001 <i>KZ</i> ₆₆	4.987	0.35–0.63	3
66826 1999 <i>UX</i> ₃₆	5.280	0.53	2 W	68348 2001 <i>LO</i> ₇	3.324	0.08–0.15	3– B?
66832 1999 <i>UE</i> ₄₅	6.5	0.16	2 W	68350 2001 <i>MK</i> ₃	3.273	0.17–0.20	3
66850 1999 <i>VX</i> ₈	9.495	0.41	2 W	68404 2001 <i>QX</i> ₁₀₈	9.951	0.16	2 W
66868 1999 <i>VS</i> ₄₇	6.23	0.35	2 W	68410 Nichols	6.912	0.48	2 W
66889* 1999 <i>VW</i> ₇₈	10.7	0.07	1+	68480 2001 <i>TQ</i> ₄₉	2.6982	0.40	NA
66904 1999 <i>VA</i> ₁₆₀	3.054	0.17	2 W	68495 2001 <i>UF</i> ₂₁	6.459	0.83	2 W
66958 1999 <i>XO</i> ₂₃	3.370	0.08	1 W	68506 2001 <i>UW</i> ₁₂₁	4.864	0.83	2 W
66969* 1999 <i>XW</i> ₅₄	5.75	0.22	2– W	68518 2001 <i>VM</i> ₁₄	7.16	0.12	2 W
66998 1999 <i>XY</i> ₁₁₃	2.486	0.08	1 W	68537 2001 <i>VC</i> ₁₂₃	2.997	0.16	3
67008 1999 <i>XD</i> ₁₂₂	4.123	0.35	2 W	68547 2001 <i>XW</i> ₂₉	36.7	0.60	3– T+
67017 1999 <i>XV</i> ₁₃₂	11.018	0.27	2 W	68553 2001 <i>XF</i> ₆₈	3.13	0.22	2+ W
67087* 2000 <i>AL</i> ₅₁	17.7	0.50	2 HW	68711 2002 <i>CV</i> ₂₄₄	4.494	0.64	2 W
67158 2000 <i>AX</i> ₁₉₉	8.893	0.66	2 W	68735 2002 <i>ET</i> ₂₆	16.228	0.28	2 W
67175* 2000 <i>BA</i> ₁₉	275.	0.25	2+ B?	68744 2002 <i>EV</i> ₄₃	7.451	0.30	2 W
67209* 2000 <i>DN</i> ₂₆	3.767	0.35–0.40	2 W	68806 2002 <i>GR</i> ₄₀	5.764	0.21	2 W
67244* 2000 <i>EH</i> ₅₈	11.579	0.40–0.48	2 W	68825* 2002 <i>GH</i> ₈₁	9.395	0.64–0.65	2 W
67298 2000 <i>GD</i> ₉₁	7.685	0.61	2 W	68905 2002 <i>JZ</i> ₁₀₄	4.23	0.14	2 N
67299 2000 <i>GS</i> ₉₅	28.439	0.36	2 W	68918 2002 <i>KZ</i> ₉	7.775	0.08	1 W
67327 2000 <i>HD</i> ₇₆	4.582	0.11	2 W	68927 2002 <i>NB</i> ₂₈	6.988	0.50	2 W
67354 2000 <i>KM</i> ₁	5.76	0.52	2–	68950 2002 <i>QF</i> ₁₅	47.0	>0.35	2
67357 2000 <i>KS</i> ₁₅	8.35	0.82	2 W	68969 2002 <i>RW</i> ₁₀₁	5.394	0.73	2 W
67377 2000 <i>OW</i> ₁	6.44	0.16	2 W	69016* 2002 <i>UX</i> ₃₂	4.084	0.52–0.69	2 W
67393* 2000 <i>OX</i> ₅₈	15.660	0.51–0.58	2 W	69018 2002 <i>VH</i> ₂₄	7.498	0.83	2 W
67395 2000 <i>PR</i>	2.061	0.07	1 W	69026 2002 <i>VL</i> ₉₃	288.075	0.63	2 W
67404 2000 <i>PG</i> ₂₆	5.398	0.66–0.70	3 p	69068 2003 <i>AO</i> ₃₂	2.87	0.13	2 W
67413 2000 <i>QK</i> ₅₀	10.969	0.90	2 W	69076 2003 <i>AC</i> ₅₃	4.829	0.63	2 W
67432* 2000 <i>QN</i> ₁₁₂			HNW	69092 2003 <i>BQ</i> ₂₅	6.347	0.10	1 W
67453 2000 <i>QB</i> ₁₇₂	3.071	0.08	1 W	69117 2003 <i>EX</i> ₂	4.74608		p Ns
67466* 2000 <i>QJ</i> ₂₁₇	3.15	0.55–0.56	2+ W	69142 2003 <i>FL</i> ₁₁₅	7.389	0.53–0.56	3
67474 2000 <i>RL</i> ₇	2.601	0.40	2 W	69216 1108 <i>T–3</i>	13.880	0.48	2 W
67493 2000 <i>RR</i> ₂₇	7.005	0.86	2 W	69228 Kameronunberg	23.384	0.63	2 W
67496 2000 <i>RK</i> ₃₁	7.650	1.02	2 W	69230 Hermes	13.894	0.06–0.08	3 B
67500 2000 <i>RM</i> ₄₃	2.973	0.29	2 W	69241 1979 <i>MX</i> ₃	5.569	0.09	1 W
67515 2000 <i>RN</i> ₆₂	17.640	0.57	2 W	69245 Persiceto	6.271	0.67	2 W
67529 2000 <i>RQ</i> ₉₀	5.562	0.38	2 W	69253 1981 <i>EX</i> ₃₅	10.967	1.00	2 W
67539* 2000 <i>SK</i> ₄	3.39	0.92	1 W	69262 1986 <i>PV</i> ₆	4.256	0.61	2 W
67551 2000 <i>SF</i> ₅₇	5.516	0.67	2 W	69298 1992 <i>DR</i> ₉	11.03	0.28	2 W
67569 2000 <i>SN</i> ₁₀₁	9.517	0.46	2 W	69305 1992 <i>EJ</i> ₁₄	3.318	0.27	2 W
67577 2000 <i>SB</i> ₁₁₂	4.449	0.09	1 W	69342 1993 <i>TT</i> ₁₉	10.878	0.67	2 W
67578 2000 <i>SO</i> ₁₁₂	156.584	0.89	2 W	69346 1993 <i>TV</i> ₃₂	41.404	0.69	2 W
67592 2000 <i>SD</i> ₁₃₈	11.698	0.86	2 W	69350 1993 <i>YP</i>	31.79	0.45–0.95	2 AT?
67622 2000 <i>SJ</i> ₁₇₆	2.889	0.05	1 W	69354 1994 <i>CZ</i> ₂	9.304	0.81	2 W
67631 2000 <i>ST</i> ₂₀₂	9.961	0.72	2 W	69377 1994 <i>WJ</i> ₃	4.262	0.28	2 W
67635 2000 <i>SE</i> ₂₁₁	46.809	0.94	2 W	69406 1995 <i>SX</i> ₄₈	4.49	0.10–0.19	3 B?
67662 2000 <i>SF</i> ₂₆₈	8.934	0.73	2 W	69410* 1995 <i>UB</i> ₃	6.81	0.78	3– W
67681 2000 <i>SH</i> ₂₉₃	19.847	0.57	2 W	69420 1995 <i>YA</i> ₁	186.944	0.70	2 W
67713 2000 <i>UF</i> ₁	6.808	0.67	2 W	69437 1996 <i>KW</i> ₂	3.64	0.08	1
67721 2000 <i>US</i> ₁₄	3.648	0.36	2 W	69453 1996 <i>TG</i> ₁₁	6.121	0.27	2 W
67742* 2000 <i>UP</i> ₃₄	4.718	0.29–0.49	2 W	69459 1996 <i>TX</i> ₆₂	15.532	0.65	2 W
67746 2000 <i>UG</i> ₄₀	5.015	0.40	2 W	69460 1996 <i>UO</i> ₁	6.388	0.49	2 W
67751 2000 <i>UF</i> ₄₈	3.3	0.26–0.36	2–	69487 1997 <i>AZ</i> ₂	5.594	0.18	2 W
67777 2000 <i>UH</i> ₈₁	12.407	0.10	1 W	69508 1997 <i>ET</i> ₂	48.702	0.22	2 W
67786 2000 <i>UX</i> ₉₄	4.044	0.09	1 W	69560* 1997 <i>UW</i> ₁₄	3.50	0.41	2 W
67792 2000 <i>UD</i> ₁₀₂	5.701	0.08	1 W	69561 1997 <i>YD</i> ₂	43.64	0.97	2 W
67847 2000 <i>WX</i> ₆	2.473	0.13	2 W	69569 1998 <i>BU</i> ₁₂	9.969	0.45	2 W
67858* 2000 <i>WX</i> ₂₀	11.756	0.39–0.40	2 W	69571 1998 <i>BJ</i> ₂₅	2.645	0.06	1 W
67909 2000 <i>WJ</i> ₉₈	13.567	0.38	2 W	69595* 1998 <i>FK</i> ₁₁	6.67	0.68	3– W
67917 2000 <i>WU</i> ₁₀₉		0.98	W	69596 1998 <i>FT</i> ₁₄	7.02	0.58	2 W
67933 2000 <i>WR</i> ₁₂₇	6.652	0.74	2 W	69597 1998 <i>FQ</i> ₁₅	7.62	0.81	2 W

MINOR PLANET LIGHTCURVE PARAMETERS

Planet	Period	Variation	Note	Planet	Period	Variation	Note
69608* 1998 <i>FJ</i> ₄₂	8.07	0.43	2 W	71366* 2000 <i>AU</i> ₁₃₅	5.05	0.61	3 W
69641 1998 <i>FQ</i> ₇₇	6.004	0.23	2 W	71375* 2000 <i>AT</i> ₁₄₁			HNW
69653 1998 <i>FT</i> ₁₀₁	188.039	0.32	2 W	71434 2000 <i>AJ</i> ₂₀₅	5.71	0.84	2 W
69658* 1998 <i>FC</i> ₁₁₄	2.73	0.21–0.23	2 W	71441 2000 <i>AR</i> ₂₂₆	10.43	0.36	2 W
69661 1998 <i>FZ</i> ₁₁₇	16.5	1.46	2– W	71447* 2000 <i>AY</i> ₂₃₉	2.88	0.17	2– W
69706* 1998 <i>HJ</i> ₇₇	13.06	0.34	1 DAW	71493* 2000 <i>CF</i> ₁₃	2.65	0.36	2 W
69727 1998 <i>HD</i> ₁₄₅		0.61	W	71544* 2000 <i>CD</i> ₁₂₃			HNW
69731 1998 <i>HP</i> ₁₅₂	53.651	0.60	2 W	71559 2000 <i>DU</i> ₂₂		0.05	W
69753 1998 <i>ML</i> ₃₄	6.8	0.25	2– W	71569 2000 <i>DG</i> ₄₀	2.74	0.52	2 W
69758* 1998 <i>OP</i> ₁₀	5.823	0.59–0.69	2 W	71734 2000 <i>LX</i> ₉	6.27	0.20	2
69759* 1998 <i>OT</i> ₁₀	>41.	>0.6	HNW	71748 2000 <i>QD</i> ₁₈₂	2.313	0.07	1 W
69779 1998 <i>QZ</i> ₅₃	52.726	0.09	1 W	71765 2000 <i>SU</i> ₄	70.72	0.23	2
69802* 1998 <i>RX</i> ₁₅	5.3	0.45–0.48	2 W	71875* 2000 <i>VT</i> ₄₈	4.64	0.27	2 W
69805* 1998 <i>RF</i> ₂₃	5.966	0.46–0.56	2 W	71933 2000 <i>WW</i> ₆₁	3.37	0.11–0.13	2
69819 1998 <i>RK</i> ₆₂	5.829	0.51	2 W	72007* 2000 <i>XM</i> ₇	4.89	0.25	2
69844 1998 <i>SY</i> ₂₂	3.341	0.39	2 W	72061* 2000 <i>YX</i> ₁₆			HNW
69848* 1998 <i>SQ</i> ₃₅	8.64	0.26	1 DAW	72069* 2000 <i>YD</i> ₂₉			HNW
69853* 1998 <i>SP</i> ₅₃	8.17	0.45	1+ HW	72070 2000 <i>YC</i> ₃₃	13.966	0.08	1 W
69858 1998 <i>SM</i> ₅₇	93.169	0.37	2 W	72096* 2000 <i>YA</i> ₄₈			HNW
69880* 1998 <i>SQ</i> ₈₁	7.675	0.08	2+ W	72099* 2000 <i>YQ</i> ₅₀	8.21	0.39	2+ W
69926 1998 <i>TZ</i> ₃₁	22.86	0.28	2 W	72109* 2000 <i>YF</i> ₅₅			HNW
69934 1998 <i>US</i> ₁₃	25.112	0.46	2 W	72121 2000 <i>BQ</i> ₆₃	16.341	0.08	1 W
69944 1998 <i>UM</i> ₃₅	5.581	0.66	2 W	72168* 2000 <i>YL</i> ₁₀₇	4.03	0.49	3 W
69967* 1998 <i>VS</i> ₄₉	7.44	0.86	1+ W	72179 2000 <i>YH</i> ₁₁₃	2.99	0.31	2 W
70030 Margaretmiller	4.3292	0.41–0.50	3 B?	72186 2000 <i>YH</i> ₁₁₈	10.031	0.10	1 W
70034 1999 <i>CY</i> ₃₅	16.269	0.47	2 W	72255 2001 <i>AZ</i> ₃₁	6.387	0.09	1 W
70045 1999 <i>DA</i> ₅	14.178	0.50	2 W	72290* 2001 <i>BQ</i> ₁₅	5.6657	0.63–0.81	2 A
70049 1999 <i>GV</i> ₃₅	4.889	0.85	2 W	72295 2001 <i>BO</i> ₂₄	2.145	0.07	1 W
70069* 1999 <i>JT</i> ₄₉	6.252	0.55–0.57	2 W	72302* 2001 <i>BD</i> ₃₁	2.45	0.13	2– W
70078 1999 <i>JU</i> ₅₉	5.012	0.12	2 W	72320 2001 <i>BW</i> ₄₇	2.30	0.16	2 W
70085 1999 <i>JD</i> ₆₈	4.950	0.71	2 W	72352* 2001 <i>BK</i> ₇₂	21.82	0.51	1 W
70091 1999 <i>JN</i> ₉₃	>32.	>0.22	2	72393 2001 <i>CH</i> ₁₈	4.9		N
70126 1999 <i>NT</i> ₂	5.41	0.83	3–	72396 2001 <i>CU</i> ₂₀	8.0467	0.1	2
70165 1999 <i>NT</i> ₄₉	6.69	0.17	2 W	72451* 2001 <i>DW</i> ₅	8.21	0.93	2 W
70169* 1999 <i>NX</i> ₆₄	4.42	0.15	2– W	72469 2001 <i>DW</i> ₂₇	13.33	0.56	2 W
70171* 1999 <i>OL</i> ₂		0.17	N	72653* 2001 <i>FA</i> ₄₅	7.33	0.67	2 W
70172 1999 <i>OQ</i> ₄	5.7394	1.10	3 W	72668* 2001 <i>FG</i> ₅₁	7.27	0.94	3– W
70191* 1999 <i>RY</i> ₁₁	8.97	0.35	2 W	72675 2001 <i>FP</i> ₅₄	2.50	0.38	2
70199 1999 <i>RL</i> ₂₂	6.738	0.21	2 W	72693 2001 <i>FS</i> ₇₂	2.87	0.20	2
70202 1999 <i>RR</i> ₂₄	6.505	0.82	2 W	72713 2001 <i>FQ</i> ₈₆	11.90	0.69	2 W
70214 1999 <i>RU</i> ₄₀	12.788	0.08	1 W	72717* 2001 <i>FA</i> ₈₈	9.46	0.53	1 DAW
70275 1999 <i>RJ</i> ₁₀₉	61.870	0.09	1 W	72807* 2001 <i>GG</i> ₅	3.28	0.36	1+ W
70296 1999 <i>RZ</i> ₁₂₇	4.923	0.09	1 W	72823 2001 <i>HO</i> ₃	141.392	0.09	1 W
70297 1999 <i>RG</i> ₁₂₉	5.186	0.29	2 W	72904* 2001 <i>KM</i> ₇₄	3.48	0.33	2 W
70299 1999 <i>RM</i> ₁₂₉	6.531	0.67	2 W	72918 2001 <i>RB</i> ₁₃₄	6.15	0.41	2 W
70301 1999 <i>RZ</i> ₁₃₀	9.561	0.33	2 W	73025 2002 <i>ER</i> ₇₄	4.956	0.10	1 W
70304 1999 <i>RE</i> ₁₃₃	41.617	0.47	2 W	73083 2002 <i>GK</i> ₁₅	6.76	0.76	2 W
70306 1999 <i>RL</i> ₁₃₄	7.550	0.58	2 W	73371 2002 <i>KA</i> ₁₃	9.6	0.27	N
70329 1999 <i>RY</i> ₁₆₃	5.234	0.73	2 W	73466* 2002 <i>OP</i> ₅	5.61	0.38	2 W
70333 1999 <i>RA</i> ₁₆₈	9.449	0.62	2 W	73480 2002 <i>PN</i> ₃₄	8.45	0.18	2 A
70349 1999 <i>RV</i> ₁₈₀	9.180	0.42	2 W	73545 2003 <i>OB</i> ₃₁			W
70364 1999 <i>RN</i> ₁₉₄	2.165	0.05	1 W	73664 1981 <i>EE</i> ₃₄	6.15	0.33	2 W
70377 1999 <i>RE</i> ₂₁₁	2.222	0.06	1 W	73676 1988 <i>CD</i> ₅	58.240	0.09	1 W
70401 Davidbishop	4.794	0.50	2 W	73696 1991 <i>RQ</i> ₁₉	2.492	0.09	1 W
70404 1999 <i>RR</i> ₂₄₅	17.378	0.78	2 W	73713 1992 <i>RW</i> ₆	3.68	0.13	2 W
70410* 1999 <i>SE</i> ₃	2.5895	0.13–0.14	3	73721* 1993 <i>FZ</i> ₁₄	11.29	0.28	2 W
70411 1999 <i>SF</i> ₃	2.8420	0.20	3	73727 1993 <i>FT</i> ₃₉	17.5	0.2	1 W
70413* 1999 <i>SJ</i> ₅	9.90	0.15	2 W	73745* 1993 <i>TH</i> ₂₃			HNW
70478 1999 <i>TN</i> ₄₀	12.125	0.50	2 W	73915* 1997 <i>GD</i> ₄₃	8.58	0.96	1 DAW
70517 1999 <i>TU</i> ₁₀₅	>12.	>0.2	2	73950 1997 <i>TE</i> ₁₃	13.71	0.27	2 W
70559 1999 <i>TD</i> ₁₄₃	6.446	0.09	1 W	73964 1997 <i>WK</i> ₄₂	9.80	0.25	2 W
70615 1999 <i>TZ</i> ₂₀₄		0.86	W	73987* 1998 <i>EA</i> ₂		>0.15	
70662 1999 <i>TR</i> ₂₈₂	8.00	0.42	2 W	74022 1998 <i>HG</i> ₂	5.55	0.53	2 W
70740 1999 <i>VG</i> ₁₈	4.53	0.76	2 W	74032* 1998 <i>HR</i> ₂₇			HNW
70741 1999 <i>VO</i> ₁₈	13.33	0.33	2 W	74048* 1998 <i>HP</i> ₁₂₁			HNW
70804 1999 <i>VL</i> ₆₂	6.58	0.75	2 W	74056 1998 <i>KM</i> ₉	17.4	0.5	2
70867 1999 <i>VA</i> ₁₅₀	3.79	0.68	2 W	74081 1998 <i>OU</i> ₁	46.1	0.23	2 TO
70918 1999 <i>VY</i> ₁₉₅	3.202	0.09	1 W	74096 1998 <i>QD</i> ₁₅	4.3	0.15	3–
70924 1999 <i>VC</i> ₂₀₅	3.93	0.23	2 W	74103 1998 <i>QP</i> ₃₁	6.19	0.11	2 W
70927 1999 <i>VX</i> ₂₁₀	6.6	0.60	2	74108 1998 <i>QP</i> ₃₇	8.73	0.11	2 W
70970 1999 <i>XH</i> ₂₀	9.854	0.09	1 W	74155 1998 <i>QK</i> ₉₃	S 15.9680		p Ns
71001 Natspasoc	3.15	0.18	2	74219 1998 <i>RM</i> ₇₈	5.7	0.41	2–
71011 1999 <i>XE</i> ₄₅	4.69449		p Ns	74232* 1998 <i>ST</i> ₂₆	3.14	0.22	2– W
71031* 1999 <i>XE</i> ₆₈	20.187	0.39	2	74338 1998 <i>VK</i> ₁₅	7.480	1.02	3–
71039 1999 <i>XZ</i> ₇₃	3.23	0.42	2 W	74350 1998 <i>VO</i> ₅₄	8.56	1.1	2–
71145 1999 <i>XA</i> ₁₈₃	12.0	0.15	2–	74355 1998 <i>WJ</i> ₁₂	2.8	0.15	N
71184 1999 <i>XJ</i> ₂₁₇	4.40	0.69	2 W	74421 1999 <i>AW</i> ₂₄	3.66	0.30	2 W
71188* 1999 <i>XH</i> ₂₂₄			HNW	74424 1999 <i>BN</i>	3.733	0.28	3
71266* 2000 <i>AC</i> ₂₈	10.55	1.07	2 W	74446* 1999 <i>CT</i> ₁₉	4.82	0.17	2 W
71314 2000 <i>AW</i> ₇₆	5.65	0.81	2 W	74464* 1999 <i>CA</i> ₃₈	3.62	0.22	2 W

MINOR PLANET LIGHTCURVE PARAMETERS

Planet	Period	Variation	Note	Planet	Period	Variation	Note
74551* 1999 JY ₉₈	4.19	0.34	2+ W	75648 2000 AW ₅₉	4.09	0.13	1
74563 1999 MQ	3.93	0.16	2 W	75653 2000 AG ₆₄		0.85	W
74567 1999 NP ₆	10.91	0.25	2 W	75679* 2000 AU ₉₇	21.455	0.19–0.24	2 W
74573 1999 NB ₁₁	62.093	0.06	1 W	75695 2000 AK ₁₀₆	8.152	0.25	2 W
74590 1999 OG ₂	33.409	0.65–0.86	3–	75717 2000 AU ₁₂₀	3.28	0.27	2 W
74605* 1999 RL ₁₂	4.05	0.75	2 W	75738 2000 AF ₁₄₅	98.082	0.91	2 W
74639* 1999 RF ₅₉	5.08	0.95	2 W	75747 2000 AX ₁₅₃	6.38	0.28	2+
74642 1999 RJ ₆₁	7.471	0.85	3 W	75751 2000 AR ₁₅₈	5.420	0.65	2 W
74681 1999 RX ₁₁₅	3.908	0.08	1 W	75773 2000 AC ₁₉₆	5.746	0.64	2 W
74692 1999 RF ₁₃₄	2.241	0.10	1 W	75776 2000 AC ₁₉₈	5.348	0.82	2 W
74702* 1999 RQ ₁₄₆			HNW	75825 2000 BX ₁₆	5.672	0.74	2 W
74737 1999 RK ₁₈₀	5.30	0.52	2 W	75872 2000 CK ₂₄	3.80	0.42	2 W
74779 1999 RF ₂₄₁	6.189	0.80	3	75903 2000 CQ ₄₉	157.912	0.76	2 W
74791* 1999 SW ₆	6.81	0.68	2 W	75910 2000 CO ₅₃	2.198	0.37	2 W
74822 1999 TA ₁₅	2.412	0.10	1 W	75934 2000 CR ₇₅	3.717	0.32	2 W
74823 1999 TD ₁₅	33.451	0.21	3–	75950 2000 CU ₈₈	2.828	0.06	2 W
74858* 1999 TU ₈₈	2.48	0.12	1+ W	75959 2000 CP ₉₄		0.05	
74885* 1999 TY ₁₁₀	20.87	0.57	2 W	75974 2000 CC ₁₁₇	9.700	0.63	2 W
74890* 1999 TW ₁₁₆	4.62	0.45	1+ W	75985 2000 DY ₂	4.4	0.6	2–
74909* 1999 TV ₁₃₉	3.98	0.36	1+ W	76014* 2000 DV ₂₈	2.44	0.31	1 W
74910* 1999 TX ₁₃₉	8.57	0.35	2 W	76023* 2000 DB ₃₈			HNW
74994* 1999 TH ₂₇₁			HNW	76037* 2000 DA ₅₀			HNW
75011 1999 UQ ₁	2.800	0.12	2 W	76038 2000 DJ ₅₁	15.360		W
75028* 1999 US ₁₇	4.44	1.32	1 W	76069* 2000 DS ₇₇	9.098	0.68–0.83	2 W
75045 1999 UK ₄₃	2.282	0.08	1 W	76111 2000 DK ₁₀₆	5.30	0.09	2
75046 1999 UM ₄₃	2.895	0.08	1 W	76136* 2000 EF ₁₂	6.064	0.53–0.57	2 W
75047* 1999 UD ₄₄	6.065	0.59–0.64	2 W	76142 2000 ER ₁₃	5.500	0.70	2 W
75067 1999 VN ₁₂	21.243	0.68	2 W	76168 2000 EO ₂₉	5.953	0.70	2 W
75072 Timerskine	4.872	0.22	2 W	76170 2000 EF ₃₀	5.640	0.25	2 W
75077* 1999 VP ₂₂			HNW	76173 2000 EE ₃₂	3.11	0.27	2 W
75078* 1999 VN ₂₄	6.632	0.11–0.16	3–	76214 2000 EV ₆₄	S 9.27775		p Ns
75086 1999 VU ₂₈	20.802	0.09	1 W	76229 2000 EK ₇₅	151.936	0.70	2 W
75103 1999 VL ₄₉	3.257	0.31	2 W	76233* 2000 EX ₇₈	3.54	0.27	1+ W
75115 1999 VR ₅₈	3.157	0.18	2 W	76272 De Jong	241.407	0.83	2 W
75129* 1999 VP ₆₉	4.27	0.14	2– W	76294* 2000 EA ₁₂₉	3.581	0.52–0.54	2 W
75151* 1999 VY ₁₀₀	3.15	0.20	2 W	76325 2000 EZ ₁₄₅	8.455	0.69	2 W
75157* 1999 VP ₁₀₉	5.49	0.80	3 W	76326 2000 EV ₁₄₇	4.028	0.47	2 W
75166* 1999 VH ₁₂₄	2.92	0.48	1 W	76382 2000 EM ₁₉₈	2.823	0.08	1 W
75167 1999 VF ₁₂₈	S 10.27743		p Ns	76417 2000 FW ₁₈	4.35	0.34	2– W
75183 1999 VB ₁₆₀	16.110	0.71	2 W	76437* 2000 FD ₂₉	10.373	0.26	2 W
75186* 1999 VX ₁₆₀	6.36	0.63	3 W	76440 2000 FY ₃₀	8.036	0.64	2 W
75209 1999 VM ₁₉₂	6.440	0.36	2 W	76442 2000 FO ₃₁	6.669	0.84	2 W
75213 1999 VD ₂₀₂	2.446	0.09	1 W	76461* 2000 FH ₄₄	3.088	0.41–0.46	2 W
75216 1999 VV ₂₁₃	12.259	0.49	2 W	76470* 2000 FC ₅₇	7.22	0.63–0.68	3 W
75223* Wupatki	6.62	0.29–0.57	3 W	76471 2000 FD ₅₇	2.942	0.26	2 W
75235 1999 WX ₇	6.423	0.09	1 W	76554 2000 GK ₉₃	7.119	0.69	2 W
75277 1999 XN ₁₉	3.607	0.09	1 W	76557* 2000 GB ₉₅	7.967	0.46–0.48	2 W
75278 1999 XQ ₁₉	7.196	0.58	2 W	76588 2000 GK ₁₄₂	6.869	0.55	2 W
75283 1999 XH ₂₃	42.535	0.74	2 W	76594 2000 GB ₁₅₅	8.225	0.56	2 W
75293 1999 XQ ₂₈	2.994	0.18	2 W	76614* 2000 GY ₁₆₇	10.726	0.25–0.30	2 W
75295 1999 XH ₃₀	76.	0.35	2–	76616 2000 GV ₁₇₂	16.923	0.76	2 W
75297 1999 XY ₃₂	9.328	0.45	2 W	76639 2000 HP ₁₅			W
75300 1999 XJ ₃₄	3.921	0.18	2 W	76668* 2000 HA ₄₅	9.50	0.63–0.65	2 W
75304 1999 XT ₃₆	5.796	0.75	2 W	76674* 2000 HC ₅₈	6.774	0.63–0.69	2 W
75348* 1999 XF ₆₄	4.916	0.47–0.54	2 W	76676* 2000 HH ₆₂	6.36	0.64	2 W
75353 1999 XL ₆₉	114.664	0.30	2 W	76708 2000 HE ₁₀₁	120.993	0.67	2 W
75364 1999 XZ ₇₄	33.567	0.72	2 W	76715 2000 JK ₁₁	3.900	0.39	2 W
75366 1999 XS ₈₂	17.162	0.16	2 W	76717 2000 JP ₁₆	7.533	0.84	2 W
75393 1999 XS ₉₇	2.871	0.09	1 W	76734* 2000 JK ₅₄			HNW
75403 1999 XH ₁₀₂	7.139	0.30	2 W	76768 2000 KR ₃₁	12.440	0.39	2 W
75422 1999 XH ₁₁₉	11.33	0.12	1 W	76772 2000 KJ ₄₇	22.178	0.61	2 W
75423 1999 XO ₁₁₉	2.552	0.30	2 W	76781 2000 KU ₆₅	8.613	0.56	2 W
75426 1999 XJ ₁₂₃	7.450	0.19	2 W	76786 2000 LT ₉	180.070	0.78	2 W
75431* 1999 XD ₁₂₆	3.76	0.21	1+ W	76800 2000 OQ ₃₅	392.	1.4	3 TO
75458 1999 XS ₁₄₇	8.624	0.55	2 W	76801 2000 PF ₂₄	8.806	0.23	2 W
75482 1999 XC ₁₇₃	1234.171	0.69	2 W	76814 2000 QL ₁₆₄	5.129	0.42	2 W
75489 1999 XO ₁₇₈	8.70	0.65	2+ W	76815 2000 QE ₁₈₁	37.796	0.30	2 W
75492 1999 XK ₁₇₉	13.728	0.46	2 W	76818 2000 RG ₇₉	3.1664	0.14–0.15	3 B
75495 1999 XM ₁₈₁	14.682	0.69	2 p s	76820 2000 RW ₁₀₅		0.91	I
75523 1999 XX ₂₀₆	25.504	0.74	2 W	76834 2000 SA ₂₄₄	34.697	0.27	2 W
75525 1999 XQ ₂₀₉	55.613	0.56	2 W	76836* 2000 SB ₃₁₀	10.70	0.61	2 W
75528 1999 XC ₂₁₄	3.108	0.45	2 W	76841* 2000 TC ₃₃	4.895	0.50–0.54	3
75555 Wozaszek	7.22	0.12	1 W	76857 2000 WE ₁₃₂	37.69	0.43	3–
75561 1999 YR ₂₂	6.004	0.07	1 W	76864 2000 XR ₁₃	3.89	0.15–0.16	3
75577 2000 AD ₁₁	2.323	0.15	2 W	76865* 2000 XW ₃₈	5.14	0.31	1 DAW
75596* 2000 AA ₂₃	3.06	0.31	2 W	76867 2000 YM ₅	9.112	0.29–0.31	3
75598 2000 AY ₂₃	3.05	0.28	2+ W	76873 2000 YF ₃₂	5.834	0.59	2 W
75605 2000 AA ₃₂	4.680	0.41	2 W	76874 2000 YR ₃₂	3.95	0.23	2 W
75609 2000 AF ₃₄	6.997	0.58	2 W	76894* 2000 YT ₉₉			HNW
75640* 2000 AE ₅₅	16.369	0.52–0.6	2 W	76898 2000 YS ₁₀₅	14.138	0.63	2 W

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Planet	Period	Variation	Note	Planet	Period	Variation	Note
76918* 2001 AC ₅	2.875	0.22–0.28	2 W	78337 2002 PG ₈₈	2.998	0.36	2 W
76924 2001 AJ ₂₁	23.020	0.10	1 W	78381 2002 PQ ₁₃₅	17.9	0.49	2 W
76929* 2001 AX ₃₄	36.2	0.19–0.19	2+	78388* 2002 PT ₁₅₆	4.25	1.11	1 W
76944 2001 BH ₁₅	4.104	0.73	2 W	78404 2002 QG ₁₄	50.982	0.55	2 W
76947 2001 BF ₁₉	5.045	0.72	2 W	78417* 2002 QE ₃₇	3.75	0.22	2– W
76995 2001 BQ ₇₅	2.707	0.09	1 W	78420* 2002 QU ₄₀	4.90	0.55–1.10	2 p W
77003 2001 CT ₄	4.700	0.56	2 W	78468* 2002 RL ₄₄	16.28	1.41	1 DAW
77010 2001 CB ₉	3.61	0.36	3–	78476 2002 RO ₅₀	8.823	0.41	2 W
77049 2001 CH ₄₈	2.596	0.08	1 W	78479 2002 RO ₅₂		0.66	W
77062 2001 DA ₁₉	7.522	0.75	2 W	78480* 2002 RA ₅₃			HNW
77065 2001 DU ₂₀	8.548	0.59	2 W	78487 2002 RO ₅₉	3.279	0.46	2 W
77082 2001 DM ₃₃	45.498	0.68	2 W	78494 2002 RX ₆₃	6.08	0.64	2 W
77105 2001 DG ₆₉	40.949	0.38	2 W	78550 2002 RS ₁₂₈	12.325	0.68	2 W
77127 2001 DJ ₉₃	4.16	0.47	2+	78585 2002 SF ₁₂	4.631	0.58	2 W
77158* 2001 EN ₁₅	5.19	0.48	1 W	78596 2002 SK ₂₁	28.509	0.67	2 W
77186 2001 FS ₉	32.112	0.52	2 W	78618 2002 TH ₅	3.229	0.47	2 W
77191 2001 FE ₁₁	5.133	0.09	1 W	78643* 2002 TA ₄₂			HNW
77216 2001 FO ₂₄	150.	1.0	1+	78656* 2002 TL ₇₃	8.023	0.64–0.73	2 W
77266* 2001 FX ₅₁	3.24	0.17	2 W	78657 2002 TS ₇₆	4.620	0.48–0.52	2 W
77281* 2001 FO ₆₃	3.98	0.24	1+	78673 2002 TP ₁₁₄	4.911	0.59	2 W
77292 2001 FN ₇₁	4.599	0.61	2 W	78698 2002 TD ₁₇₁	8.182	0.28	2 W
77311 2001 FL ₈₁	7.991	0.71	2 W	78714 2002 TX ₁₉₉	8.882	0.56	2 W
77313 2001 FY ₈₁	6.42	0.48	2 W	78728 2002 TK ₂₃₃	5.364	0.49	2 W
77388 2001 FA ₁₅₀	5.027	0.69	2 W	78765* 2002 UD ₃₆	5.74	0.69–0.98	3 W
77402 2001 FK ₁₆₈	5.16	1.13	2 W	78772 2002 VA ₄₄	4.817	0.30	2 W
77457 2001 HU ₁₁	17.514	0.83	2 W	78779 2002 VZ ₆₈	6.765	0.71	2 W
77483* 2001 HB ₃₁	2.21	0.28	1+	78785 2002 VC ₈₅	11.057	0.38	2 W
77489 2001 HC ₃₅	45.451	0.50	2 W	78790* 2002 VH ₁₂₀			HNW
77503 2001 HP ₄₅	9.725	0.51	2 W	78803 2003 MK ₅	4.438	0.63	2 W
77572 2001 KL ₁₀	3.610	0.53	2 W	78846* 2003 QN ₅₆	5.45	1.19	2 W
77590 2001 KM ₁₇	5.892	0.69	2 W	78856 2003 QR ₆₈	2.086	0.05	1 W
77608 2001 KZ ₃₃	15.575	0.65	2 W	78857* 2003 QO ₇₀	3.380	0.42	3 W
77635 2001 KO ₅₅	4.742	0.61	2 W	78948 2003 SM ₁₉₂	37.888	0.17	2 W
77637 2001 KH ₅₆	9.572	0.80	2 W	78975 2003 SK ₃₁₃	5.319	0.69	2 W
77645 2001 KX ₆₆	3.613	0.15	3	78996 2008 P–L	5.05	0.19	2 W
77677 2001 MA ₂₅	S 5.30471		p Ns	79046 4113 T–2	5.664	0.82	2 W
77680 2001 MJ ₂₉	18.106	0.47	2 W	79056 1132 T–3	11.005	0.45	2 W
77682 2001 MY ₂₉	5.343	0.57	2 W	79063 2499 T–3	3.32	0.61	2 W
77685* 2001 NA ₃	4.36	0.69–0.88	3 W	79066 3172 T–3	3.739	0.39	2 W
77689 2001 NZ ₁₀	5.13	0.16	2 W	79071* 3300 T–3			HNW
77694* 2001 NT ₁₈	6.862	0.81–0.99	2 W	79087 Scheidt	6.638	0.33–0.45	2 W
77703* 2001 OP ₂₄	5.61	0.15	2 W	79122 1990 RV ₇	5.626	0.83	2 W
77733 2001 OS ₇₃	7.579	1.15	2 W	79126* 1990 SO ₆			HNW
77740* 2001 OP ₈₈	10.499	0.53–0.57	2 W	79128 1990 SB ₁₃	4.30	0.38	2 W
77759* 2001 PY ₃₆	5.102	0.61–0.65	2 W	79129* Robkoldewey	5.42	0.31	2 W
77768 2001 QM	7.1	0.34	2 W	79170 1993 FT ₃₄	4.406	0.26	2 W
77778 2001 QR ₁₈	9.910	0.35	2 W	79177* 1993 FG ₅₀			HNW
77780 2001 QJ ₂₇	15.820	0.45	2 W	79193 1993 TW ₁₇	3.202	0.32	2 W
77799 2001 QV ₈₈	40.01	0.74	3	79217 1994 JR ₄	5.138	1.18	2 W
77807 2001 QU ₁₂₅	7.712	0.75	2 W	79223 1994 PM ₁₂	4.315	0.53	2 W
77812* 2001 QC ₁₃₄	9.535	0.44–0.55	2 W	79234 1994 PC ₂₆	67.816	0.84	2 W
77818* 2001 QK ₁₆₅	30.00	0.19	1+	79269 1995 QG ₁	8.336	0.65	2 W
77829* 2001 QO ₂₁₇	13.6	0.51–0.62	2 W	79272 1995 SN ₆	7.74	0.94	2 W
77831 2001 QL ₂₂₆		0.56	W	79279 1995 SQ ₂₈	3.742	0.07	1 W
77839* 2001 QU ₂₆₈	16.84	0.75	2 W	79314 1996 DP ₁	8.499	0.50	2 W
77842 2001 QA ₂₇₃	13.022	0.60	2 W	79316 Huangshan	493.	0.62	2+ T?
77856 Noblitt	3.382	0.34	2 W	79320 1996 HS ₂₅	13.513	0.46	2 W
77873* 2001 SQ ₄₆	11.119	0.32–0.36	2 W	79325* 1996 QJ			HNW
77877 2001 SE ₅₉	5.143	0.51	2 W	79331 1996 TY	11.44	0.18	1 W
77878 2001 SE ₆₂	4.384	0.31	2 W	79355* 1997 BN ₄	10.168	0.25–0.29	2 W
77880* 2001 SE ₁₂₁	8.38	0.43–0.45	2 W	79360* Sila–Nunam	300.24	0.14–0.15	2 B
77882* 2001 SV ₁₂₄	3.48	0.25	2–	79361 1997 DA	8.434	0.50	2 W
77887* 2001 ST ₁₇₁			HNW	79413 1997 JQ ₁₄	6.288	0.60	2 W
77926 2002 EJ ₁₄₀	5.85	0.64	2 W	79435 1997 TU ₂	7.46	0.95	2 W
77964 2002 JT ₁	8.180	0.69	2 W	79436 1997 TD ₆	S 3.63535		p Ns
77989 2002 JP ₃₃	9.929	0.45	2 W	79455* 1997 WH ₄₆	7.308	0.53–0.66	2 W
78005 2002 JB ₅₂	6.936	0.46	2 W	79472 Chiorny	2.8802	0.19–0.21	3 B?
78006 2002 JE ₅₂	5.162	0.09	1 W	79493 1998 FD ₆₃	2.777	0.20	1 W
78024 2002 JO ₇₀	>17.	>0.12	1	79506 1998 HG ₇	10.273	0.74	2 W
78035 2002 JU ₈₉	4.069	0.62	2 W	79530 1998 QD ₄	24.51	0.20	NA
78052 2002 JW ₁₃₈	42.026	0.59	2 W	79531 1998 QX ₆	81.298	0.44	2 W
78130 2002 NL ₁₂	5.22	0.53	2 W	79550 1998 QO ₄₆	3.957	0.44	2 W
78148 2002 NB ₂₄	2.756	0.25	2 W	79554 1998 QT ₄₈	8.617	0.63	2 W
78212 2002 OB ₁	4.746	0.26	2 W	79559 1998 QG ₅₁	62.854	0.49	2 W
78237 2002 OL ₂₀	223.743	0.61	2 W	79562* 1998 QU ₆₂	7.652	0.18–0.20	2 W
78280* 2002 PF ₄₀	8.50	0.91	2 W	79590 1998 RX ₁₉	988.769	0.07	1 W
78287 2002 PN ₄₉	5.645	0.66	2 W	79621 1998 RF ₆₂	3.512	0.55	2 W
78293 2002 PC ₅₃	15.02	0.15	1 W	79639* 1998 RP ₇₈	6.026	0.42–0.43	2 W
78296* 2002 PT ₅₃	5.3	0.75–0.76	2 W	79695 1998 SA ₆₆	55.235	0.78	2 W
78299 2002 PF ₅₅	4.60	0.23	2–	79704* 1998 SF ₉₀	6.40	0.67	2+ W

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Planet	Period	Variation	Note	Planet	Period	Variation	Note
79721 1998 <i>SE</i> ₁₁₂	10.2	0.45	2- W	81228* 2000 <i>FG</i> ₂₅			HNW
79738 1998 <i>ST</i> ₁₃₈	7.280	0.76	2 W	81263 2000 <i>FZ</i> ₄₃	6.3	0.80	3-
79782 1998 <i>UN</i> ₄₀	150.	0.2	1+ W	81267* 2000 <i>FA</i> ₄₆			HNW
79799 1998 <i>VU</i> ₁₀	8.436	0.92	2 W	81289 2000 <i>FC</i> ₆₅	35.306	0.87	2 W
79823 1998 <i>VK</i> ₅₄	40.838	0.33	2 W	81298 2000 <i>GW</i> ₁	10.338	1.06	3-
79898 1999 <i>BD</i> ₆	5.053	0.24	2 W	81345 2000 <i>GW</i> ₄₁	3.3735	0.33	3- W
79904 1999 <i>BO</i> ₁₃	3.851	0.48	2 W	81351 2000 <i>GH</i> ₅₀	5.065	0.12	2 W
79937 1999 <i>CD</i> ₇₃	10.020	0.35	2 W	81362 2000 <i>GU</i> ₅₉	6.1		N
79983 1999 <i>DF</i> ₉	6.65	0.40	2 A	81386 2000 <i>GT</i> ₇₃	15.381	0.25	2 W
79988 1999 <i>EK</i> ₁₀	7.333	0.41	2 W	81409* 2000 <i>GO</i> ₈₉	7.74	0.77	2 W
80044 1999 <i>JN</i> ₄₀	15.743	0.60	2 W	81443* 2000 <i>GV</i> ₁₁₄	5.217	0.60	2 AW
80049* 1999 <i>JV</i> ₅₄	4.389	0.40-0.53	2 W	81468 2000 <i>GS</i> ₁₃₇	3.638	0.60	2 W
80055* 1999 <i>JL</i> ₇₀	8.246	0.52-0.74	2 W	81484 2000 <i>GF</i> ₁₅₃	11.937	0.07	1 W
80078* 1999 <i>JU</i> ₁₁₅	5.235	0.26-0.27	2 W	81590* 2000 <i>HN</i> ₄₉	26.170	0.70	2 AW
80112 1999 <i>RN</i> ₆₁	4.92362		p Ns	81628 2000 <i>HF</i> ₇₆	5.077	0.78	2 W
80176 1999 <i>UL</i> ₃₈	10.79	0.30	2 W	81655 2000 <i>HS</i> ₈₆	5.529	0.53	2 W
80180 1999 <i>Elko</i>	5.710	0.63	2 W	81675 2000 <i>JO</i>	85.614	0.83	2 W
80186 1999 <i>VD</i> ₃₂	41.094	0.64	2 W	81700 2000 <i>JU</i> ₁₉	2.507	0.24	2 W
80209 1999 <i>VK</i> ₈₉	3.018	0.43	2 W	81713 2000 <i>JC</i> ₂₇	4.049	0.10	1 W
80215 1999 <i>VM</i> ₁₁₁	6.439	0.87	2 W	81740 2000 <i>JA</i> ₄₆	9.343	0.45	2 p s
80218* 1999 <i>VO</i> ₁₂₃	3.1451	0.21	3 B	81767* 2000 <i>JV</i> ₆₅	6.536	0.58-0.65	2 W
80255 1999 <i>WZ</i> ₁₉	9.375	0.60	2 W	81781 2000 <i>JA</i> ₇₄	11.455	0.53	2 W
80275 1999 <i>XY</i> ₃₁	6.398	0.59	2 W	81802 2000 <i>KN</i> ₆	8.49	0.50	2- W
80276* 1999 <i>XL</i> ₃₂	5.56	0.76-0.77	3- p	81828* 2000 <i>KT</i> ₄₄			HNW
80307 1999 <i>XU</i> ₇₁	6.089	0.61	2 W	81847 2000 <i>KO</i> ₅₈	4.881	0.65	2 W
80327 1999 <i>XY</i> ₈₉	4.178	0.48	2 W	81887 2000 <i>LS</i> ₂₂	3.474	0.28	2 W
80330 1999 <i>XD</i> ₉₂	44.744	0.59	2 W	81911 2000 <i>NV</i> ₉	6.95480		p Ns
80331 1999 <i>XM</i> ₉₂	9.151	0.68	2 W	81922 2000 <i>NV</i> ₂₂	12.150	0.37	2 W
80346 1999 <i>XT</i> ₁₁₄	3.48	0.13	2 W	81954 2000 <i>PT</i> ₁₇	3.57	0.37	2 W
80371 1999 <i>XM</i> ₁₅₄	5.128	0.76	2 W	81957 2000 <i>QG</i> ₁₄	7.27	0.81	2 W
80381 1999 <i>XD</i> ₁₆₀	2.61	0.13	2 W	81964 2000 <i>QX</i> ₃₅	4.019	0.33	2 W
80431* 1999 <i>XS</i> ₂₂₇			HNW	81975 2000 <i>QH</i> ₇₈	8.03	0.37	2+
80438 1999 <i>XX</i> ₂₄₉	4.682	0.32	2 W	81985 2000 <i>QU</i> ₁₂₂		0.59	W
80448 1999 <i>YA</i> ₁₇		0.65	W	82060 2000 <i>WX</i> ₈	2.7631	0.20-0.32	3
80451 1999 <i>Alwoods</i>		0.52	W	82066 2000 <i>XG</i> ₁₅	11.23	0.15-0.19	2
80454 2000 <i>AW</i> ₃	6.746	0.64	2 W	82075* 2000 <i>YW</i> ₁₃₄		<0.1	HB
80482 2000 <i>AV</i> ₃₃	8.066	0.07	1 W	82078 2001 <i>AH</i> ₄₆	19.57	0.41	3-
80509* 2000 <i>AE</i> ₅₆	3.97	0.6 -0.68	2 W	82125 2001 <i>FM</i> ₈₂	2.554	0.64	2 W
80516 2000 <i>AL</i> ₅₉	5.89	0.10	2 W	82155 2001 <i>FZ</i> ₁₇₃		<0.06	
80524 2000 <i>AD</i> ₆₃	19.879	0.32	2 W	82158 2001 <i>FP</i> ₁₈₅		<0.06	
80545 2000 <i>AD</i> ₈₅	3.110	0.16	2 W	82163* 2001 <i>GA</i> ₁₁	8.2	0.35	2
80576 2000 <i>AE</i> ₁₂₀	2.73	0.21	2 W	82203* 2001 <i>HH</i> ₃₈	4.47	0.36	2 W
80582 2000 <i>AY</i> ₁₂₅	2.540	0.09	1 W	82251* 2001 <i>KZ</i> ₃	6.62	1.19	2 W
80583 2000 <i>AL</i> ₁₂₇	4.310	0.75	2 W	82262 2001 <i>KG</i> ₁₃	5.630	0.76	2 W
80587* 2000 <i>AU</i> ₁₃₁	2.90	0.25	2 W	82315 2001 <i>KF</i> ₅₉	22.395	0.51	2 W
80636 2000 <i>AV</i> ₂₁₄	100.	3.0	1 W	82333 2001 <i>LF</i> ₇	2.303	0.09	1 W
80672* 2000 <i>BU</i> ₁₇	12.241	0.36-0.41	2 W	82355 2001 <i>MY</i> ₂	5.297	0.65	2 W
80678 2000 <i>BR</i> ₂₅	5.066	0.46	2 W	82363 2001 <i>MF</i> ₇	7.609	0.70	2 W
80704 2000 <i>CM</i> ₅	10.535	0.69	2 W	82371 2001 <i>MM</i> ₁₄	17.782	0.26	2 W
80706 2000 <i>CL</i> ₁₆	4.439	0.09	1 W	82384 2001 <i>MV</i> ₂₀	2.44	0.21	2 W
80714* 2000 <i>CR</i> ₂₀	3.82	1.27	1 W	82396 2001 <i>NR</i> ₁	5.214	0.28	2 W
80730* 2000 <i>CM</i> ₂₉	2.69	0.18	2 W	82401 2001 <i>NF</i> ₆	13.037	0.74	2 W
80760* 2000 <i>CY</i> ₅₃	11.683	0.70-0.80	2 W	82442* 2001 <i>ON</i> ₈	6.27	0.40-0.46	2 W
80762 2000 <i>CG</i> ₅₄	26.417	0.75	2 W	82483 2001 <i>OC</i> ₃₄	8.773	0.31	2 W
80770* 2000 <i>CB</i> ₆₁	7.987	0.26-0.30	2 W	82495 2001 <i>OC</i> ₄₁	10.95	0.20	2- W
80773 2000 <i>CY</i> ₆₃	13.535	0.60	2 W	82524 2001 <i>OE</i> ₅₅	4.033	0.62	2 W
80775 2000 <i>CN</i> ₆₅	5.362	0.54	2 W	82525 2001 <i>OM</i> ₅₅	5.966	0.70	2 W
80783* 2000 <i>CR</i> ₇₉	5.288	0.66-0.68	2 W	82547* 2001 <i>OB</i> ₆₉			HNW
80806 2000 <i>CM</i> ₁₀₅		<0.14	HB	82554* 2001 <i>OA</i> ₇₂	2.55	0.49	2- W
80865 2000 <i>DH</i> ₂₈	3.119	0.49	2 W	82590 2001 <i>OO</i> ₈₉	23.353	0.43	2 W
80915 2000 <i>DK</i> ₆₃	4.069	0.46	2 W	82593 2001 <i>OW</i> ₉₀	6.00	0.72	2 W
80936* 2000 <i>DS</i> ₈₀	2.49	0.23	2 W	82642 2001 <i>PX</i> ₅	11.61144		p Ns
80940* 2000 <i>DD</i> ₈₆	3.48	0.36	2+	82660 2001 <i>PG</i> ₁₆	68.283	0.95	2 W
80952 2000 <i>DF</i> ₉₈	2.7775	0.10	2- W	82681* 2001 <i>PY</i> ₂₅			HNW
80954 2000 <i>DZ</i> ₉₈	21.048	0.82	2 W	82683 2001 <i>PZ</i> ₂₆	4.36	0.50	2 W
80969* 2000 <i>DL</i> ₁₁₂	14.559	0.64-0.74	2 W	82730 2001 <i>PZ</i> ₅₈	17.328	0.56	2 W
80978* 2000 <i>EG</i> ₈	7.62	0.60	2 W	82752 2001 <i>QG</i> ₇	33.372	0.36	2 W
80983* 2000 <i>EV</i> ₁₂			HNW	82753 2001 <i>QO</i> ₇	3.62	0.50	2 W
80988 2000 <i>EK</i> ₁₉	44.366	0.08	1 W	82767* 2001 <i>QR</i> ₁₂	7.150	0.37-0.40	2 W
81013 2000 <i>EY</i> ₃₇	2.921	0.35	2 W	82813 2001 <i>QJ</i> ₃₅	4.862	0.43	2 W
81015* 2000 <i>EF</i> ₃₈	2.25	0.54	3- W	82842 2001 <i>QK</i> ₅₀	6.650	0.60	2 W
81032 2000 <i>EK</i> ₄₈	11.054	0.34	2 W	82937 2001 <i>QU</i> ₁₁₃	8.191	0.40	2 W
81063 2000 <i>EJ</i> ₇₀	6.008	0.40	2 W	82943* 2001 <i>QG</i> ₁₁₇	36.154	0.36-0.38	2 W
81080 2000 <i>ET</i> ₈₈	2.109	0.10	1 W	82971 2001 <i>QD</i> ₁₃₅	8.172	0.84	2 W
81119 2000 <i>EW</i> ₁₂₅	5.132	0.75	2 W	82995 2001 <i>QJ</i> ₁₅₅	8.143	0.63	2 W
81153 2000 <i>ES</i> ₁₅₀	13.249	0.68	2 W	83000 2001 <i>QG</i> ₁₅₉	16.043	0.07	1 W
81174 2000 <i>EO</i> ₁₇₀	5.860	0.61	2 W	83034 2001 <i>QT</i> ₁₈₃	8.73	0.36	2 W
81178* 2000 <i>EB</i> ₁₇₅			HNW	83046 2001 <i>QW</i> ₁₉₅	23.279	0.09	1 W
81205 2000 <i>FW</i> ₁₀	4.95	0.78	2 W	83049 2001 <i>QX</i> ₁₉₆	7.759	0.40	2 W
81221* 2000 <i>FY</i> ₂₁	20.43	0.58	2 W	83108* 2001 <i>QY</i> ₂₃₉	3.92	0.26	1+ W

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Planet	Period	Variation	Note	Planet	Period	Variation	Note
83119 2001 QX ₂₄₄	3.087	0.60	2 W	84794 2002 XY ₈₇	3.206	0.19	2 W
83150* 2001 QA ₂₆₈	5.738	0.47–0.51	2 W	84825 2002 YE ₂₆	4.02	0.44	2 W
83218 2001 RP ₂₇	157.958	0.80	2 W	84847 2003 AW ₂₈	8.28	0.35	2 W
83241 2001 RH ₅₂	3.465	0.56	2 W	84852 2003 AK ₃₈		0.52	W
83246* 2001 RY ₅₇	7.56	0.27	2 W	84890 2003 NP ₉	19.2	0.07	1 A
83264 2001 RH ₇₅	6.350	0.61	2 W	84922* 2003 VS ₂	7.42	0.21–0.23	3–
83270 2001 RK ₇₉	13.858	0.58	2 W	84944 2003 WL ₁₅₃	7.3	0.65	2
83278 2001 RQ ₈₄	3.332	0.36	2 W	84960 2003 XS ₂₁	7.767	0.72	2 W
83281 2001 RH ₈₆	14.056	0.43	2 W	84963 2003 YN ₁₃	5.932	0.61	2 W
83287* 2001 RQ ₉₀	3.98	0.60	2+ W	84966 2003 YW ₁₆	15.173	0.61	2 W
83323* 2001 RE ₁₂₅	3.15	0.38–0.39	2 W	84975 2003 YG ₄₃	22.711	0.45	2 W
83338* 2001 RH ₁₃₄	4.667	0.69–0.70	2 W	85000 2003 YA ₁₂₅	5.683	0.75	2 W
83344 2001 RU ₁₃₉	5.686	0.17	2 W	85007 2004 AK ₃	6.738	0.09	1 W
83349 2001 RR ₁₄₆	10.808	0.35	2 W	85051 6641 P–L	5.932	0.45	3 W
83374 2001 SF ₉	356.355	0.48	2 W	85118 1971 UU	10.098	1.12–1.15	2+
83391 2001 SH ₂₂	4.666	0.10	1+ W	85195 von Helfta	4.8412	0.87	N
83422* 2001 SV ₄₃	9.64	0.59–0.60	3– W	85232* 1993 FT ₅₂			HNW
83450 2001 SP ₆₀	5.05	0.83	2 W	85275 1994 LY	2.6962	0.07–0.16	3 B?
83459 2001 SS ₆₄	5.550	0.59	2 W	85397 1996 TN ₃	2.398	0.10	1 W
83473 2001 SA ₇₉	4.896	0.71	2 W	85400 Shiratakachu	8.07	0.27	2 W
83490 2001 SB ₁₀₆	5.363	0.47	2 W	85401 Yamatenclub	17.78	0.57	2 W
83499 2001 SJ ₁₁₇	4.926	0.58	2 W	85424 1997 AA ₃	7.16	0.46	2 W
83505* 2001 SF ₁₂₄			HNW	85447 1997 GQ ₁₁	2.681	0.09	1 W
83520 2001 SX ₁₄₂	3.708	0.15	2 W	85489 1997 SV ₂	5.79502		p Ns
83524 2001 ST ₁₄₈		0.58	W	85490 1997 SE ₅	9.0583	0.23–0.40	3
83537* 2001 SU ₁₆₃	3.03	0.38	2 W	85532 1997 WD ₂₁	4.768	0.53	2 p s
83597 2001 SU ₂₆₃	5.494	0.54	2 W	85539 1997 WG ₃₇	21.960	0.47	2 W
83616* 2001 SW ₂₈₇	8.42	0.69	2 W	85552 1997 YR ₇	3.735	0.19	2 W
83627 2001 SN ₃₁₅	7.836	0.55	2 W	85611* 1998 HW ₁₆			HNW
83629 2001 SY ₃₁₆	11.872	0.37	2 W	85620 1998 HJ ₁₀₇	6.771	0.49	2 W
83669 2001 TV ₂₉	6.252	0.20	2– W	85628* 1998 KV ₂	2.819	0.12–0.18	3–
83672 2001 TD ₃₅	16.148	0.24	2 W	85644 1998 OH ₁₀	4.345	0.13	2 W
83673 2001 TN ₃₅	11.926	0.08	1 W	85669 1998 QK ₅₅	4.368	0.67	2 W
83701 2001 TA ₇₅	2.94	0.21	2 W	85713 1998 SS ₄₉	5.370	0.06–0.18	2 A
83711* 2001 TH ₈₂	3.555	0.20–0.25	2 W	85743 1998 SU ₁₁₃	5.853	0.52	2 W
83820 2001 UJ ₄	63.132	0.18	2 W	85745 1998 SH ₁₂₇	3.820	0.29	2 W
83826 2001 UW ₂₀	33.832	0.46	2 W	85774 1998 UT ₁₈	34.	0.34–0.8	1
83831* 2001 UE ₂₃	4.452	0.31–0.33	2 W	85782 1998 VZ ₂	5.379	0.41	2 W
83834 2001 UQ ₂₄	3.830	0.25	2 W	85793* 1998 VG ₂₆	6.58	0.13	1 W
83857* 2001 US ₅₉	3.48	0.53	3– W	85804 1998 WQ ₅	3.0089	0.05–0.10	2
83875 2001 UA ₉₅	4.17	0.29	2 W	85834* 1998 XM ₇₄	2.86	0.17–0.18	2 W
83884 2001 UW ₁₂₃	3.736	0.09	1 W	85836 1998 YF ₂	5.36	0.11	2 W
83900 2001 UN ₁₅₇		1.1	I	85839 1998 YO ₄		<0.05	
83902 2001 UX ₁₆₄	10.322	0.56	2 W	85854 1999 AE ₁₃	46.054	0.49	2 W
83909 2001 UB ₁₈₉	7.109	0.60	2 W	85867 1999 BY ₉	25.	0.9	1+ T?
83913 2001 VF ₆	4.6673	1.00	3– W	85872 1999 BH ₃₁	66.475	0.83	2 W
83917 2001 VB ₁₁	4.40	0.45	2 W	85875 1999 CR ₅	24.	0.21	1
83919* 2001 VX ₁₂			HNW	85887 1999 CE ₃₆	10.266	0.92	2 W
83920 2001 VX ₁₅	5.447	0.54	2 W	85904 1999 CH ₇₀	7.019	0.64	2 W
83958 2001 XA ₃₆	246.062	0.87	2 W	85938 1999 DJ ₄	2.5141	0.10–0.11	3 B
83962 2001 XW ₁₂₃	5.19	0.66	2 W	85944 1999 EM ₇	77.122	0.33	2 W
83963 2001 XM ₂₀₂	9.469	0.91	2 W	85953* 1999 FK ₂₁	17.62	0.45–0.60	3– T?
83982 Crantor	13.94	0.14	1 A	85958 1999 FU ₄₂	9.87	0.68	2 W
83984* 2002 GL ₇₇	5.752	0.08	1 HW	85959 1999 FV ₄₂	89.669	0.86	2 W
83988* 2002 LC ₃₄	53.595	0.48–0.62	2 W	85980 1999 HG ₃	18.672	0.89	2 W
83999 2002 NV ₂₆	46.776	0.08	1 W	85988 1999 JX ₅	14.575	0.45	2 W
84000 2002 NG ₂₇	8.961	0.26	2 W	85989* 1999 JD ₆	7.6638	0.5 –1.25	3
84042 2002 PQ ₅₆	8.07	0.76	2 W	85990 1999 JV ₆	6.538	0.85–0.93	3
84045 2002 PN ₅₈	240.	0.5	1 W	86022 1999 KJ ₁₄	89.128	0.30	2 W
84135* 2002 RD ₅₁	4.02	0.15	1 W	86039* 1999 NC ₄₃	34.49	1.10–1.10	2– T?A
84203 2002 RD ₁₃₃	17.728	0.58	3–	86044 1999 OD ₂	4.232	0.26	2 W
84305 2002 TH ₄₀	2.390	0.07	1 W	86046 1999 OY ₂	20.360	0.58	2 W
84340* Jos	4.19	0.18	2– W	86047* 1999 OY ₃	18.02	0.10	2
84379 2002 TB ₁₃₈	2.557	0.10	1 W	86048 1999 PP ₁	3.442	0.45	2 W
84394 2002 TD ₁₇₄	6.71	0.65	2 W	86052 1999 RM ₂	2.112	0.09	1 W
84407 2002 TU ₁₈₁	11.85	0.43	2 W	86067 1999 RM ₂₈	9.196	0.51	3–
84478 2002 TC ₂₆₆	3.3167	0.48	3 W	86088* 1999 RR ₈₈	14.628	0.40–0.41	2 W
84504* 2002 TL ₂₈₆			HNW	86094 1999 RW ₁₀₀	6.754	0.44	2 W
84506* 2002 TE ₂₈₈	10.352	0.44–0.45	2 W	86106 1999 RP ₁₁₃	975.095	0.74	2 W
84509 2002 TZ ₂₈₈	2.431	0.10	1 W	86109 1999 RV ₁₁₈	5.745	0.51	2 W
84512 2002 TK ₂₉₁	2.911	0.19	2 W	86120 1999 RM ₁₄₀	30.364	0.32	2 W
84522 2002 TC ₃₀₂	5.41	0.04	1+ I	86121 1999 RE ₁₄₄	5.384	0.65	2 W
84571 2002 VR ₁₃	2.951	0.39	2 W	86128 1999 RC ₁₅₄	147.684	0.89	2 W
84597 2002 VD ₃₁	5.351	0.08	1 W	86150 1999 RP ₂₀₀	5.334	0.45	2 W
84609 2002 VE ₃₆	8.298	0.69	2 W	86153 1999 RE ₂₀₁	4.493	0.51	2 W
84626 2002 VB ₄₇	6.889	0.64	2 W	86168 1999 RQ ₂₀₉	4.273	0.16	2 W
84631 2002 VW ₅₁	308.111	0.54	2 W	86174 1999 RV ₂₁₂	13.924	0.08	1 W
84660 2002 VZ ₇₈	5.787	0.86	2 W	86177 1999 RY ₂₁₅		<0.05	N
84668* 2002 VS ₈₂	6.67	0.61	2+ W	86191 1999 RY ₂₅₁	34.602	0.40	2 W
84714 2002 VE ₁₂₃	2.300	0.08	1 W	86192 1999 SV ₁	7.155	0.23–0.29	3

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Planet	Period	Variation	Note	Planet	Period	Variation	Note
86206 1999 <i>TK</i> ₉	150.077	0.41	2 W	87567 2000 <i>RC</i> ₁₁	3.28	0.25	2 W
86217 1999 <i>TB</i> ₃₅	5.994	0.88–1.00	3	87580 2000 <i>RE</i> ₁₆	144.882	0.45	2 W
86228 1999 <i>TW</i> ₁₀₇	9.817	0.09	1 W	87607* 2000 <i>RA</i> ₄₄	3.257	0.18–0.19	2 W
86241 1999 <i>TE</i> ₁₂₀	5.115	0.31	2 W	87611 2000 <i>RP</i> ₄₄	11.819	0.22	2 W
86257 1999 <i>TK</i> ₂₀₇	32.408	1.05–1.51	3 p	87617 2000 <i>RB</i> ₄₈	10.224	0.49	2 W
86275 1999 <i>TA</i> ₃₂₀	7.418	0.40	2 W	87632* 2000 <i>RF</i> ₆₄	14.6	0.18	2– HW
86301 1999 <i>VL</i> ₄₃	4.178	0.34	2 W	87642* 2000 <i>RF</i> ₇₃	4.61	0.50–0.60	2+ W
86307 1999 <i>VL</i> ₇₈	2.954	0.10	1 W	87644 2000 <i>RJ</i> ₇₇	10.654	0.50	2 W
86326 1999 <i>WK</i> ₁₃	6.36	0.14	2 A	87649* 2000 <i>RE</i> ₈₀			HNW
86329* 1999 <i>XZ</i> ₇	6.834	0.65–0.73	2 W	87653 2000 <i>RQ</i> ₈₆	14.247	0.72	2 W
86331 1999 <i>XY</i> ₁₉	8.600	0.63	2 W	87669 2000 <i>RE</i> ₉₉	56.446	0.50	2 W
86378 2000 <i>AV</i> ₁₈	2.528	0.07	1 W	87677* 2000 <i>RT</i> ₁₀₂	5.65	0.43	1 W
86388 2000 <i>AT</i> ₆₀	10.23	0.26	2 W	87684* 2000 <i>SY</i> ₂	2.8712	0.09–0.10	2 W
86417 2000 <i>AM</i> ₂₄₂	14.902	0.34	2 W	87694 2000 <i>SX</i> ₁₃	17.781	0.40	2 W
86450 2000 <i>CK</i> ₃₃	6.6045	1. –1.2	3	87712 2000 <i>SA</i> ₃₄	40.266	0.66	2 W
86474 2000 <i>CT</i> ₇₉	9.50	0.21	2 W	87726 2000 <i>SZ</i> ₄₆	3.845	0.52	2 W
86492 2000 <i>DN</i> ₁₅	5.466	0.41	2 W	87742* 2000 <i>SH</i> ₆₅	7.33	0.99	2 W
86505 2000 <i>DS</i> ₄₂	6.004	0.84	2 W	87799 2000 <i>SP</i> ₁₃₀	7.	0.16	2–
86519 2000 <i>DM</i> ₆₈	5.504	0.59	2 W	87804* 2000 <i>SS</i> ₁₃₇	6.23	0.24	1 W
86527 2000 <i>DH</i> ₇₆	3.466	0.40	2 W	87806* 2000 <i>SR</i> ₁₄₀	6.49	0.99	2 W
86597 2000 <i>EG</i> ₆₈	3.608	0.47	2 W	87810 2000 <i>SE</i> ₁₄₅	4.602	0.53	2 W
86601 2000 <i>EU</i> ₇₅	14.108	0.28	2 W	87811* 2000 <i>SO</i> ₁₄₅	55.2	0.45	2–
86649 2000 <i>EM</i> ₁₅₂	3.31	0.14	2 W	87840 2000 <i>SW</i> ₁₉₃	11.282	0.71	2 W
86653* 2000 <i>EY</i> ₁₇₀			HNW	87855* 2000 <i>SB</i> ₂₂₀	12.463	0.57–0.74	2 W
86666 2000 <i>FL</i> ₁₀	206.	0.85	2 T?	87887* 2000 <i>SS</i> ₂₈₆	5.7773	0.21	3
86667 2000 <i>FO</i> ₁₀	26.	0.7	1	87892 2000 <i>SS</i> ₂₉₂	309.666	0.82	2 W
86669 2000 <i>FV</i> ₁₄	20.908	0.42	2 W	87921 2000 <i>SC</i> ₃₁₈	85.776	0.53	2 W
86694* 2000 <i>FC</i> ₄₉	57.018	0.55–0.56	2 W	87926 2000 <i>SZ</i> ₃₁₉	11.026	0.16	2 W
86696* 2000 <i>FO</i> ₄₉	4.87	1.00–1.41	2 W	87951 2000 <i>SZ</i> ₃₆₈	5.049	0.20	2 W
86718* 2000 <i>GO</i> ₁₄	2.56	0.17	1+ W	87971 2000 <i>TV</i> ₃₈	7.01	0.30	2 W
86725 2000 <i>GG</i> ₃₂	6.47	0.61	2– W	87981 2000 <i>TS</i> ₅₅	6.534	0.56	2 W
86740* 2000 <i>GM</i> ₅₁	5.13	0.58	2 W	87984 2000 <i>TP</i> ₅₇	10.43	0.39	2 W
86742 2000 <i>GR</i> ₅₃	44.268	0.33	2 W	87988 2000 <i>TZ</i> ₆₂	4.1	0.35	2 W
86759* 2000 <i>GX</i> ₇₂	5.55	0.73–0.88	2 W	88005 2000 <i>UR</i> ₄₄	15.524	0.27	NA
86819 2000 <i>GK</i> ₁₃₇	3.0239	0.12–0.27	2 A	88019 2000 <i>UT</i> ₆₆	21.743	0.44	2 W
86824 2000 <i>GS</i> ₁₄₀	2.87	0.42	2 W	88039 2000 <i>UQ</i> ₁₀₀	6.348	0.49	2 W
86829 2000 <i>GR</i> ₁₄₆	3.0996	0.12–0.14	3	88060 2000 <i>VO</i> ₄₄	7.574	0.29	2 W
86878 2000 <i>HD</i> ₂₄	23.1	0.35	1	88074 2000 <i>WG</i> ₅	6.806	0.54	2 W
86882 2000 <i>HE</i> ₂₇	3.82	0.31	2 W	88114 2000 <i>WW</i> ₁₀₇	19.401	0.61	2 W
86893 2000 <i>HK</i> ₃₃	5.748	0.77	2 W	88115 2000 <i>WD</i> ₁₁₆	5.3966	0.49	3
86933 2000 <i>HB</i> ₆₆	5.374	0.79	2 W	88120 2000 <i>WF</i> ₁₃₉	4.008	0.70	2 W
86952 2000 <i>HT</i> ₈₉	12.523	0.10	1 W	88139 2000 <i>WP</i> ₁₇₂	3.926	0.24	2 W
87028* 2000 <i>JA</i> ₇₈	6.02	0.25–0.30	2 W	88141 2000 <i>WE</i> ₁₇₄	3.01	0.28	2–
87039 2000 <i>KT</i> ₅	70.344	0.33	2 W	88144* 2000 <i>WS</i> ₁₈₁	6.44	0.21	2 W
87048 2000 <i>KT</i> ₂₀	5.912	0.80	2 W	88161* 2000 <i>XK</i> ₁₈	6.806	0.69–0.80	3 p
87068 2000 <i>KN</i> ₅₈			W	88188 2000 <i>XH</i> ₄₄	2.6906	0.06	3
87073 2000 <i>KF</i> ₆₆	10.972	0.20	2	88199 2000 <i>YQ</i> ₇₃	4.229	0.85	2 W
87086 2000 <i>KZ</i> ₈₁	3.23	0.18	1 W	88208* 2000 <i>YG</i> ₁₂₀	4.535	0.46–0.56	2 W
87087 2000 <i>KA</i> ₈₃	8.225	0.70	2 W	88215* 2001 <i>AR</i> ₂₂	5.05	0.28	1+ W
87090 2000 <i>LX</i> ₂	34.904	0.18	2 W	88226 2001 <i>BY</i> ₄₁	3.569	0.09	1 W
87098 2000 <i>LS</i> ₁₀	14.532	0.60	2 W	88227* 2001 <i>BU</i> ₄₂	6.355	0.26	1 HW
87105* 2000 <i>LX</i> ₁₈	7.33	0.47	2 W	88230* 2001 <i>BT</i> ₆₅	66.479	0.57–0.74	2 W
87116 2000 <i>LQ</i> ₃₀	6.821	0.78	2 W	88236 2001 <i>CC</i> ₁₂	3.342	0.08	1 W
87134 2000 <i>NS</i> ₅	412.657	0.84	2 W	88241* 2001 <i>CD</i> ₂₃	5.734	0.10	2– HW
87179 2000 <i>ON</i> ₇	3.760	0.26	1+ W	88242 2001 <i>CK</i> ₃₅	575.950	0.92	2 W
87208* 2000 <i>OQ</i> ₃₂	4.914	0.67–0.87	2 W	88259 2001 <i>HJ</i> ₇	4.166	0.11–0.15	3
87211 2000 <i>OP</i> ₃₆	2.833	0.08	1 W	88263 2001 <i>KQ</i> ₁	13.16	0.52	3–
87224 2000 <i>OG</i> ₄₁	45.494	0.21	2 W	88329* 2001 <i>OO</i> ₅₇	3.32	0.77	2 W
87228 2000 <i>OD</i> ₄₂	18.18	1.8	2	88352 2001 <i>OJ</i> ₈₆	7.01	0.17	2–
87230 2000 <i>OZ</i> ₄₂	>20.	>0.15	1 W	88367* 2001 <i>PY</i> ₈	3.962	0.44–0.51	2 W
87231 2000 <i>OB</i> ₄₃	967.271	0.58	2 W	88388 2001 <i>QT</i> ₂	4.477	0.60	2 W
87234 2000 <i>OX</i> ₄₃	3.56	0.25	2 W	88417 2001 <i>QJ</i> ₄₈	8.690	0.68	2 W
87235 2000 <i>OM</i> ₄₄	6.376	0.55	2 W	88418 2001 <i>QA</i> ₅₀	13.050	0.67	2 W
87239 2000 <i>OH</i> ₄₅	5.969	0.21	2 W	88424 2001 <i>QC</i> ₆₁	2.668	0.07	1 W
87252 2000 <i>OM</i> ₅₀	13.644	0.28	2 W	88433 2001 <i>QS</i> ₆₈	2.656	0.41	2 W
87254 2000 <i>OY</i> ₅₂	82.440	0.67	2 W	88435 2001 <i>QW</i> ₇₀	7.184	0.68	2 W
87290 2000 <i>PF</i> ₁₈	52.520	0.66	2 W	88458 2001 <i>QG</i> ₉₅	6.408	0.28	2 W
87309 2000 <i>QP</i>	2.1651	0.10	2	88460* 2001 <i>QT</i> ₉₇	3.29	0.15	2 W
87312* Akirasuzuki	3.25	0.14	2 W	88462* 2001 <i>QM</i> ₉₉	5.6	0.63–0.70	2 W
87343 2000 <i>QH</i> ₂₅	22.6	0.06	1	88472 2001 <i>QW</i> ₁₁₁	5.476	0.83	2 W
87370* 2000 <i>QY</i> ₅₀	6.86	0.55	2 W	88475 2001 <i>QO</i> ₁₁₃	6.284	0.50	2 W
87389* 2000 <i>QT</i> ₆₆	3.01	0.48	2 W	88522* 2001 <i>QM</i> ₁₇₁	27.82	0.46	1 DAW
87405* 2000 <i>QP</i> ₇₇	9.017	0.66–0.68	2 W	88525* 2001 <i>QU</i> ₁₇₄	7.62	0.88	2+ W
87421* 2000 <i>QS</i> ₉₇	6.790	0.43–0.49	2 W	88531 2001 <i>QO</i> ₁₈₀	2.90	0.44	2 W
87426 2000 <i>QH</i> ₁₀₁	5.8	0.14	N	88541 2001 <i>QC</i> ₁₉₀	16.047	0.19	2 W
87487 2000 <i>QY</i> ₁₅₃	5.899	0.34	2 W	88550 2001 <i>QT</i> ₁₉₇	7.234	0.54	2 W
87501 2000 <i>QD</i> ₁₆₉	5.223	0.32	2 W	88569 2001 <i>QT</i> ₂₄₅	5.05	0.70	2 W
87530* 2000 <i>QG</i> ₂₀₀	5.11	0.34	2– W	88597* 2001 <i>QS</i> ₂₇₀			HNW
87560 2000 <i>RE</i> ₄	2.61	0.23	2 W	88604* 2001 <i>QH</i> ₂₉₃	7.178	0.48–0.52	3–
87563* 2000 <i>RP</i> ₆	2.85	0.40	2 W	88611* Teharonhiawako			NB

MINOR PLANET LIGHTCURVE PARAMETERS

Planet	Period	Variation	Note	Planet	Period	Variation	Note
88621* 2001 <i>RR</i> ₁₀	6.19	0.44	2 W	90539 2004 <i>FH</i> ₆₈	5.685	0.51	2 W
88622* 2001 <i>RU</i> ₁₀	4.524	0.34–0.36	2 W	90568 2004 <i>GV</i> ₉	5.86	0.1 –0.16	N
88628* 2001 <i>RF</i> ₃₄	5.90	0.68–0.80	3 W	90585 2032 <i>P–L</i>	196.469	0.08	1 W
88704 2001 <i>SF</i>	6.27	0.68	2 W	90586 2035 <i>P–L</i>	2.711	0.23	2 W
88710 2001 <i>SL</i> ₉	2.4004	0.08–0.12	3 B	90632* 2259 <i>T–2</i>	2.468	0.21–0.44	2 W
88731* 2001 <i>SJ</i> ₃₆	6.593	0.39–0.45	2 W	90688 1981 <i>ED</i> ₃₀	5.476	0.44	2 W
88742 2001 <i>SU</i> ₄₈	7.44	0.66	2 W	90696 1981 <i>EQ</i> ₄₄	6.271	0.56	2 W
88763* 2001 <i>SS</i> ₆₆	4.42	0.39	1+ W	90698 Kościuszko	5.014	0.23	3 W
88796 2001 <i>SB</i> ₁₁₆	2.327	0.09	1 W	90701 1986 <i>RC</i> ₅	10.231	0.45	2 W
88824 2001 <i>SM</i> ₁₅₈	6.171	0.87	2 W	90712 Wittelsbach	9.950	0.24	2 W
88825 2001 <i>SG</i> ₁₅₉	5.297	0.69	2 W	90713* Chajnantor	4.17	0.45	2 W
88850 2001 <i>SL</i> ₂₂₂	7.8	0.22	1+ W	90738* 1993 <i>FP</i> ₂₁	10.10	0.76	1 DAW
88878 Bowenyueli	8.022	0.66	2 W	90781 1994 <i>EE</i> ₆	14.008	1.08	2 W
88918 2001 <i>TN</i> ₁₁	4.858	0.71	2 W	90839 1995 <i>WN</i> ₇	10.983	0.27	2 W
88925 2001 <i>TC</i> ₁₈	10.751	0.16	2 W	90884* 1996 <i>XC</i> ₃₆	3.34	1.03	1+ W
89051 2001 <i>TF</i> ₁₁₈	9.994	0.56	2 W	90896 1997 <i>CJ</i> ₃	7.4	0.30	2 W
89063 2001 <i>TV</i> ₁₄₆	4.362	0.30	2 W	90920 1997 <i>QM</i> ₃	4.68	0.53	3–
89076 2001 <i>TH</i> ₁₅₈	5.553	0.76	2 W	90988 1997 <i>XS</i> ₁₃	8.8	0.14	2–
89090 2001 <i>TK</i> ₁₈₂	10.2	0.60	2 W	90997 1998 <i>BC</i>		0.93	W
89096 2001 <i>TB</i> ₁₉₀	2.917	0.16	2 W	91014* 1998 <i>DN</i> ₁₂			HNW
89128 2001 <i>UP</i> ₇	5.894	0.77	2 W	91040* 1998 <i>FD</i> ₁₄	4.62	0.13	2 W
89136 2001 <i>US</i> ₁₆	14.39	0.61–0.90	2 T	91063 1998 <i>FX</i> ₆₂	15.240	0.80	2 p W
89140 2001 <i>UT</i> ₂₁	7.054	0.77	2 W	91066 1998 <i>FP</i> ₆₆	4.617	0.36	2 W
89182 2001 <i>UQ</i> ₆₈	128.847	0.84	2 W	91081* 1998 <i>FR</i> ₁₀₉	5.441	0.47–0.56	2 W
89198 2001 <i>UQ</i> ₈₃	7.589	0.98	2 W	91130* 1998 <i>HQ</i> ₁₄₂	8.97	0.26	2– W
89246 2001 <i>UU</i> ₁₆₇	5.558	0.62	2 W	91133 1998 <i>HK</i> ₁₅₁		<0.15	
89281 2001 <i>VU</i> ₁₆	3.468	0.09	1 W	91139 1998 <i>KL</i> ₄₇	5.834	0.65	2 W
89284 2001 <i>VY</i> ₁₇	5.13	0.59	2 W	91156 1998 <i>QS</i> ₆₀	13.121	0.51	2 W
89309* 2001 <i>VN</i> ₃₆	73.145	1.4	3 p	91231 1999 <i>BP</i> ₂₄	79.346	0.44	2 W
89347 2001 <i>VS</i> ₆₆	9.092	0.42	2 W	91245 1999 <i>CN</i> ₃₄	3.95	0.08	2 W
89355 2001 <i>VS</i> ₇₈	40.553	0.39–0.52	3 T–	91247* 1999 <i>CM</i> ₄₀	11.64	1.16	1 DAW
89375 2001 <i>VB</i> ₉₁	4.27	0.21	2 W	91252 1999 <i>CS</i> ₄₉	3.357	0.23	3
89402* 2001 <i>WG</i> ₄	3.47	0.12	2 W	91305 1999 <i>FK</i> ₄₆	15.5	0.71	2– W
89410* 2001 <i>WQ</i> ₁₃	10.895	0.24–0.27	2 W	91339 1999 <i>JR</i> ₁₅	101.919	0.35	2 W
89413* 2001 <i>WM</i> ₂₁	7.876	0.37–0.38	2 W	91413 1999 <i>NN</i> ₄₉	3.868	0.09	2 W
89473 2001 <i>XS</i> ₂₂	12.942	0.64	2 W	91427 1999 <i>PB</i> ₅	2.908	0.23	2 W
89494* 2001 <i>XY</i> ₃₈	18.82	0.31	2– W	91429 Michelebianda	2.849	0.22	2 W
89498 2001 <i>XV</i> ₄₃	6.468	0.74	2 W	91432* 1999 <i>RF</i> ₁	4.6	0.42–0.52	2 W
89550 2001 <i>XU</i> ₉₇	9.0	0.65	2 W	91434 1999 <i>RY</i> ₃	29.703	0.48	2 W
89579 2001 <i>XE</i> ₁₂₇	6.502	0.10	1 W	91472 1999 <i>RY</i> ₉₁	51.997	0.98	2 W
89633 2001 <i>XM</i> ₂₁₀	157.336	0.23	2 W	91481 1999 <i>RV</i> ₁₀₈	3.976	0.34	2 W
89655 2001 <i>XA</i> ₂₅₁	9.32	0.79	2 W	91492 1999 <i>RY</i> ₁₃₂	4.370	0.41	2 W
89674* 2001 <i>YP</i> ₃₇	4.95	0.74	2 W	91493* 1999 <i>RE</i> ₁₃₄	15.883	0.23–0.24	2 W
89726 2001 <i>YA</i> ₁₃₄	3.007	0.47	2 W	91505 1999 <i>RA</i> ₁₅₈	5.52	0.17	2 W
89736* 2002 <i>AC</i> ₁	10.699	0.51–0.55	2 W	91511 1999 <i>RJ</i> ₁₆₃	6.512	0.66	2 W
89759* 2002 <i>AF</i> ₅₆	5.52	0.34	2 W	91515 1999 <i>RR</i> ₁₆₉	10.433	0.35	2 W
89764 2002 <i>AW</i> ₆₁	5.93513		2 p Ns	91533* 1999 <i>RY</i> ₁₉₉	3.85	0.84–1.22	2 W
89769 2002 <i>AQ</i> ₇₃	6.223	0.26	2 W	91542 1999 <i>RC</i> ₂₀₇	35.658	0.16	2 W
89777 2002 <i>AR</i> ₉₀	10.856	0.62	2 W	91545 1999 <i>RT</i> ₂₀₉	6.210	0.56	2 W
89830 2002 <i>CE</i>	2.6149	0.09	N	91551 1999 <i>RA</i> ₂₁₂	12.347	0.39	2 W
89885 2002 <i>CP</i> ₂₂₈	14.12	0.54	2 W	91552* 1999 <i>RG</i> ₂₁₃	2.51	0.65	1+ W
89891 2002 <i>CQ</i> ₂₅₆	2.2512	0.34	NA	91596 1999 <i>TF</i> ₁₁	86.561	0.09	1 W
89915 2002 <i>ED</i> ₃₂	4.439	0.41	2 W	91599 1999 <i>TQ</i> ₁₃	198.254	0.61	2 W
89936 2002 <i>EK</i> ₁₅₂	3.478	0.46	2 W	91635 1999 <i>TH</i> ₇₉	28.099	0.73	2 W
89948 2002 <i>GJ</i> ₅₇	8.858	0.69	2 W	91638 1999 <i>TQ</i> ₈₂	7.146	0.49	2 W
89969* 2002 <i>RW</i> ₈₇			HNW	91659 1999 <i>TP</i> ₁₀₅	25.128	0.59	2 W
90041 2002 <i>VU</i>	32.289	0.80	2 W	91661 1999 <i>TG</i> ₁₀₆	4.051	0.84	2 W
90050 2002 <i>VQ</i> ₂₃	17.3	0.15	1+ W	91681 1999 <i>TF</i> ₁₂₀	4.666	0.45	2 W
90068* 2002 <i>VV</i> ₇₇			HNW	91710 1999 <i>TZ</i> ₁₄₉	13.564	0.64	2 W
90075 2002 <i>VU</i> ₉₄	7.88	0.31–0.62	3–	91714 1999 <i>TW</i> ₁₅₃	23.366	0.68	2 W
90076 2002 <i>VS</i> ₉₅		0.08	N	91715 1999 <i>TA</i> ₁₅₄	85.271	0.55	2 W
90092 2002 <i>XM</i> ₄	2.454	0.13	2 W	91734 1999 <i>TM</i> ₁₆₆	8.201	0.45	2 W
90138 Diehl	8.07	0.43	2 W	91776 1999 <i>TJ</i> ₂₀₆	27.036	0.14	2 W
90148 2002 <i>YL</i> ₁₄	3.276	0.20	2 W	91849 1999 <i>UK</i> ₆	16.258	0.27	2 W
90166 2003 <i>AR</i> ₆	17.711	0.10	1 W	91851 1999 <i>UA</i> ₈	204.244	0.87	2 W
90174 2003 <i>AK</i> ₁₉	6.395	0.77	2 W	91858 1999 <i>US</i> ₁₆	14.197	0.71	2 W
90199* 2003 <i>AY</i> ₆₂			HNW	91888 Tomskilling	9.657	0.30	2 W
90232 2003 <i>BD</i> ₂₇		0.83	W	91891 1999 <i>VJ</i> ₂	60.665	0.54	2 W
90242* 2003 <i>BF</i> ₅₂	5.458	0.57–0.67	2 W	91937 1999 <i>VQ</i> ₅₈	17.066	0.09	1 W
90265* 2003 <i>CL</i> ₅	23.42	1.80	3 p	92010* 1999 <i>VB</i> ₁₅₉	10.43	0.56	2+ W
90275 2003 <i>DM</i>	4.55	0.38	2 W	92013 1999 <i>VV</i> ₁₅₉	15.847	0.82	2 W
90282 2003 <i>DS</i> ₂₀	2.82	0.36	2 W	92018 1999 <i>VW</i> ₁₆₂	3.203	0.30	2 W
90337* 2003 <i>FQ</i> ₉₇	60.	0.54–0.54	2– A	92028 1999 <i>VM</i> ₁₇₇	12.479	0.64	2 W
90377 Sedna	10.273	0.02	2 A	92064 1999 <i>WA</i> ₁₃	6.281	0.65	2 W
90389 2003 <i>WQ</i> ₁₅₃	39.971	0.85	2 W	92065 1999 <i>WC</i> ₁₃	6.844	0.35	2 W
90416 2003 <i>YK</i> ₁₁₈	43.58	0.13	2+ A	92119 1999 <i>XW</i> ₈₁	3.624	0.21	2 W
90431 2004 <i>BY</i> ₅₅	12.296	0.93	2 W	92127 1999 <i>XE</i> ₁₀₇	10.03	0.34	2 W
90454 2004 <i>CV</i>	100.	0.30	2–	92131 1999 <i>XT</i> ₁₀₇	10.153	0.33	2 W
90482 Orcus	13.188	0.04–0.18	2 B	92193 1999 <i>XG</i> ₂₃₀	45.177	0.60	2 W
90528 Raywhite	5.224	0.79	2 W	92225 2000 <i>AX</i> ₈₇	3.443	0.38	2 W

MINOR PLANET LIGHTCURVE PARAMETERS

Planet	Period	Variation	Note	Planet	Period	Variation	Note
92287 2000 <i>EX</i> ₁₄	188.935	0.40	2 W	94005 2000 <i>XO</i> ₂₅	21.650	0.21	2 W
92329 2000 <i>GZ</i> ₆₄	4.325	0.49	2 W	94048 2000 <i>YU</i> ₂	7.432	0.49	2 W
92336* 2000 <i>GY</i> ₈₁	28.212	0.44–0.51	2+	94086 2000 <i>YG</i> ₅₅	8.893	0.90	2 W
92460 2000 <i>KT</i> ₃₉	7.63	0.35	2– W	94186 2001 <i>AH</i> ₄₅	11.075	0.55	2 W
92498 2000 <i>NH</i> ₉	2.89	0.35	2	94204 2001 <i>BR</i> ₂₄	10.506	0.79	2 W
92519 2000 <i>NO</i> ₂₇	3.08	0.15	2 W	94245 2001 <i>CW</i> ₁₁	8.262	0.50	2 W
92520 2000 <i>NH</i> ₂₈	4.422	0.73	2 W	94257 2001 <i>CJ</i> ₃₅	5.244	0.15	2 W
92528* 2000 <i>OQ</i> ₈	4.575	0.32–0.50	2 W	94265 2001 <i>CU</i> ₄₅	4.469	0.23	2 W
92541 2000 <i>OX</i> ₂₀	3.187	0.39	2 W	94266* 2001 <i>DO</i>	15.025	0.70–0.78	2 W
92597* 2000 <i>PE</i> ₁₉	8.28	0.80	2+ W	94313* 2001 <i>FE</i> ₄₁	7.501	0.29–0.34	2 W
92636 2000 <i>QS</i> ₂₀	10.949	0.08	1 W	94320 2001 <i>FH</i> ₁₀₉	18.572	0.63	2 W
92730* 2000 <i>QZ</i> ₉₉			HNW	94324 2001 <i>FB</i> ₁₂₇	6.388	1.00	2 W
92754 2000 <i>QY</i> ₁₁₃	6.03	1.03	3– W	94346* 2001 <i>QU</i> ₈₈	3.0731	0.11	3
92857 2000 <i>QQ</i> ₂₀₅	5.01	0.47	3– W	94365* 2001 <i>RN</i> ₇₀	3.33	0.39	2 W
92901 2000 <i>RE</i> ₅	9.623	0.34	2 W	94424 2001 <i>TW</i> ₃₉	6.110	0.75	2 W
92936 2000 <i>RQ</i> ₃₂	6.082	0.71	2 W	94440 2001 <i>TH</i> ₆₅	7.007	0.81	2 W
92941 2000 <i>RP</i> ₃₄	10.769	0.13	2 W	94547* 2001 <i>UD</i> ₂₀₅			HNW
92942 2000 <i>RC</i> ₃₅	30.387	0.23	2 W	94577 2001 <i>VU</i> ₄₅	7.419	0.77	2 W
92963* 2000 <i>RN</i> ₄₈	11.548	0.35–0.45	2 W	94583* 2001 <i>VG</i> ₄₇	10.84	0.70	1 DW
92982 2000 <i>RE</i> ₇₁	3.149	0.29	2 W	94599 2001 <i>VY</i> ₇₉	5.544	0.08	1 W
92988* 2000 <i>RJ</i> ₇₃	5.036	1.02–1.04	2 W	94608 2001 <i>VR</i> ₁₀₉	6.02	0.60	2+
93000* 2000 <i>RJ</i> ₈₃	12.032	0.27–0.30	2 W	94653* 2001 <i>WF</i> ₆₇	4.80	0.48–0.50	3– W
93036 2000 <i>RW</i> ₁₀₃	5.521	0.51	2 W	94763 2001 <i>XM</i> ₉₉	3.04	0.35	2– B?
93044 2000 <i>SE</i> ₆	17.614	0.42	2 W	94808 2001 <i>XM</i> ₁₆₇	10.66092		Ns
93069* 2000 <i>SX</i> ₂₄	9.174	0.47–0.54	2 W	94838* 2001 <i>XU</i> ₁₉₄	3.06	0.18	2 p W
93079 2000 <i>SX</i> ₂₈	18.941	0.92	2 W	94905 2001 <i>YS</i> ₂₄	2.72	0.10	2 W
93090* 2000 <i>SF</i> ₃₇	6.770	0.67–0.86	2 W	94940* 2001 <i>YP</i> ₇₈			HNW
93114 2000 <i>SE</i> ₅₈		0.84	W	94961 2001 <i>YJ</i> ₁₀₁	4.276	0.39	2 W
93115 2000 <i>SJ</i> ₅₈	2.990	0.59	2 W	94972 2001 <i>YY</i> ₁₀₉	34.081	0.27	2 W
93131* 2000 <i>SV</i> ₆₇			HNW	95010 2002 <i>AR</i> ₁	8.64	1.30	2– W
93144 2000 <i>SM</i> ₇₈	14.704	0.53	2 W	95019 2002 <i>AR</i> ₁₀	4.954	0.68	2 W
93150* 2000 <i>SC</i> ₈₁	5.405	0.73–0.82	2 W	95022* 2002 <i>AG</i> ₁₄			HNW
93152* 2000 <i>ST</i> ₈₃	6.103	0.65–0.86	2 W	95047* 2002 <i>AL</i> ₃₇	3.18	0.25	2 W
93157 2000 <i>SD</i> ₈₅	57.634	0.23	2 W	95110 2002 <i>AR</i> ₁₁₈	6.82	0.83	2 W
93190 2000 <i>SN</i> ₁₁₁	2.466	0.34	2 W	95126 2002 <i>AZ</i> ₁₄₈	5.347	0.55	2 W
93195 2000 <i>SV</i> ₁₁₂	2.2	0.52	N	95147 2002 <i>AP</i> ₁₆₆	>6.	>0.5	2
93198 2000 <i>ST</i> ₁₁₄	5.312	0.53	2 W	95156* 2002 <i>AK</i> ₁₇₅	5.45	0.76	3 W
93218 2000 <i>SJ</i> ₁₃₁	3.072	0.35	2 W	95201* 2002 <i>BJ</i> ₁₉	20.653	0.18–0.23	2 W
93220 2000 <i>SA</i> ₁₃₅	6.435	0.54	2 W	95218* 2002 <i>CO</i> ₁₄	5.400	0.61–0.69	2 W
93225 2000 <i>SE</i> ₁₄₂	4.715	0.45	2 W	95223* 2002 <i>CU</i> ₂₂	7.22	0.93	2 W
93226 2000 <i>SJ</i> ₁₄₂	6.485	0.73	2 W	95335 2002 <i>CU</i> ₁₁₈	21.723	0.43	2 W
93250* 2000 <i>SD</i> ₁₆₆	4.82	0.63–0.66	2 W	95353 2002 <i>CY</i> ₁₃₈	3.611	0.62	2 W
93268 2000 <i>SX</i> ₁₇₃	7.419	0.64	2 W	95355 2002 <i>CQ</i> ₁₄₁	229.853	0.27	2 W
93270 2000 <i>SQ</i> ₁₇₅	3.373	0.49	2 W	95431* 2002 <i>CZ</i> ₂₄₀	8.21	0.57	2+ W
93335* 2000 <i>SK</i> ₂₃₅	6.3	0.59–0.85	2 W	95490 2002 <i>EX</i> ₂₉	8.759	0.39	2 W
93348 2000 <i>SP</i> ₂₅₀	7.87	0.77	2 W	95512 2002 <i>EH</i> ₅₂	10.689	0.51	2 W
93353* 2000 <i>SF</i> ₂₅₃	5.82	0.25	1 W	95525 2002 <i>EZ</i> ₇₀	19.947	0.79	2 W
93371* 2000 <i>SP</i> ₂₆₉			HNW	95548* 2002 <i>EX</i> ₈₈			HNW
93405 2000 <i>SV</i> ₂₉₃	5.970	0.41	2 W	95549 2002 <i>EK</i> ₈₉	4.351	0.50	2 W
93412* 2000 <i>ST</i> ₃₀₀	9.102	0.66–0.68	2 W	95552 2002 <i>EU</i> ₉₃	9.946	0.36	2 W
93418* 2000 <i>SB</i> ₃₀₅	5.85	0.17	2 W	95559 2002 <i>EK</i> ₉₈	43.562	0.62	2 W
93440 2000 <i>SX</i> ₃₂₈	5.849	0.75	2 W	95560* 2002 <i>EX</i> ₉₈	7.928	0.35–0.42	2 W
93452* 2000 <i>SY</i> ₃₅₁	8.401	0.39–0.40	2 W	95561 2002 <i>EV</i> ₁₀₀	4.623	0.57	2 W
93492 2000 <i>TD</i> ₃₆	3.310	0.66	2 W	95600 2002 <i>FK</i> ₂₇	6.783	0.61	2 W
93540* 2000 <i>UG</i> ₁₉	3.499	0.18–0.20	2 W	95622 2002 <i>GU</i> ₁₈	3.496	0.61	2 W
93546* 2000 <i>UT</i> ₂₂	7.01	0.69	2 W	95624 2002 <i>GP</i> ₂₄	16.418	0.46	2 W
93578 2000 <i>UW</i> ₄₇	6.81	0.30	2 W	95626 2002 <i>GZ</i> ₃₂	5.80	0.08	N
93660 2000 <i>UH</i> ₁₀₄	2.34	0.11	2 W	95666 2002 <i>GZ</i> ₁₄₁	4.016	0.36	2 W
93690 2000 <i>VE</i> ₂₁	>12.	>0.18	2–	95704 2002 <i>JS</i> ₁₂₄	125.144	1.00	2 W
93693 2000 <i>VC</i> ₂₃	4.236	0.42	2 W	95711 2003 <i>AK</i>	100.	0.7	NT0
93707* 2000 <i>VP</i> ₃₁	11.2	0.53–0.75	2+ W	95746 2003 <i>EW</i> ₂₂	3.79	0.11	2 W
93710* 2000 <i>VR</i> ₃₃	6.062	0.33–0.36	2 W	95796 2003 <i>FM</i> ₂₄	6.237	0.36–0.40	2 W
93734 2000 <i>VS</i> ₄₇	7.231	0.75	2 W	95822* 2003 <i>FM</i> ₈₂			HNW
93738 2000 <i>VQ</i> ₅₀	103.998	0.50	2 W	95825* 2003 <i>FJ</i> ₈₆	4.38	0.82	2 W
93749 2000 <i>VP</i> ₆₂	6.331	0.70	2 W	95868 2003 <i>GB</i> ₂₉	2.38	0.74	N
93754 2000 <i>WZ</i> ₆	6.743	0.38	2 W	95903 2003 <i>HC</i> ₂₇	9.156	0.50	2 W
93756* 2000 <i>WZ</i> ₈	110.299	0.49–0.55	2 W	95932 2003 <i>JE</i> ₁₇	82.370	0.53	2 W
93768* 2000 <i>WN</i> ₂₂	2.6821	0.21–0.33	3	95971* 2004 <i>LU</i> ₈	6.448	0.84–0.96	2 W
93779* 2000 <i>WT</i> ₃₀	3.50	0.93	3 W	96008 2004 <i>OA</i> ₅	4.19	0.47	2 W
93785 2000 <i>WZ</i> ₃₃	2.948	0.34	2 W	96014 2004 <i>PD</i> ₇	3.56	0.55	2 W
93810 2000 <i>WB</i> ₅₇	15.846	0.61	2 W	96069 6060 <i>P–L</i>	2.20	0.20	2 W
93820 2000 <i>WN</i> ₇₀	17.399	0.37	2 W	96144 3466 <i>T–3</i>	102.151	0.68	2 W
93821 2000 <i>WF</i> ₇₁	29.135	0.37	2 W	96155 1973 <i>HA</i>	15.59	0.59	3–
93834 2000 <i>WR</i> ₇₉	57.904	0.92	2 W	96165 1981 <i>EL</i> ₁₄	4.950	0.32	2 W
93894 2000 <i>WM</i> ₁₄₁	131.289	0.40	2 W	96178 Rochambeau	5.2	0.14	1 A
93897 2000 <i>WD</i> ₁₄₃	69.430	0.74	2 W	96184 1990 <i>QH</i> ₃	4.332	0.46	2 W
93920 2000 <i>WN</i> ₁₆₀	7.614	0.53	2 W	96213 1993 <i>FZ</i> ₃₀	2.970	0.30	2 W
93934* 2000 <i>WC</i> ₁₆₇	4.16	1.02	3– W	96250 1994 <i>PE</i> ₂₅	9.292	0.35	2 W
93946 2000 <i>WW</i> ₁₇₄	6.358	0.48	2 W	96253 1995 <i>BY</i> ₁	3.0	0.49	2–
93955 2000 <i>WT</i> ₁₈₃	449.458	0.62	2 W	96315 1997 <i>AP</i> ₁₀	5.872	0.96	3

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Planet	Period	Variation	Note	Planet	Period	Variation	Note
96327 Ullmann	3.639	0.08–0.20	2	98504 2000 VY ₁₅	4.938	0.58	2 W
96336 1997 KT ₃	24.327	0.68	2 W	98505 2000 VC ₁₆	3.05	0.20	2 W
96348 Toshiyukimariko	21.37	0.09	1 W	98590 2000 WW ₅₄	5.227	0.69	2 W
96373 1997 YH ₇	7.518	0.63	2 W	98603 2000 WU ₆₉	8.052	0.50	2 W
96392 1998 DH	5.341	0.57	2 W	98610* 2000 WP ₇₆	5.22	0.28	1 W
96453 1998 GP ₉	3.406	0.47	2 W	98617 2000 WQ ₈₁	11.71	0.46	2 W
96461 1998 HS ₃₆	12.67641		p N _s HNWN	98675 2000 WV ₁₆₈	6.421	0.67	2 W
96480* 1998 HN ₁₃₉				98746 2000 YQ ₄₉	10.11	0.42	2 W
96487 1998 JU ₁		0.06		98786* 2000 YR ₉₆	17.342	0.60–0.63	2 W
96518 1998 RO ₃		0.11		98869 2001 BT ₅	4.68	1.0	2 W
96562 1998 SZ ₁₃₈	2.5688	0.18	3	98889 2001 BL ₃₈	5.421	0.27	2+
96590 1998 XB	520.	>1.0	NT0	98943 2001 CC ₂₁	5.017	0.81	N
96605 1999 AS ₁₀	2.599	0.08	1 W	98954 2001 CJ ₃₂	3.307	0.26	2 W
96612* 1999 CZ ₃	11.29	0.87	2 W	98955 2001 CE ₃₄	6.198	0.53	2 W
96635 1999 GR ₄	54.606	0.82	2 W	98978 2001 DG ₁₉	8.198	0.58	2 W
96734 1999 NR ₄₂	9.811	0.77	2 W	98993 2001 DC ₃₆	3.219	0.20–0.39	2 W
96765 1999 RS ₃₄	21.216	0.93	2 W	99008 2001 DU ₅₂	37.45	0.47	2 W
96767 1999 RP ₄₀	16.125	0.16	2 W	99013* 2001 DJ ₆₄	3.54	0.36–0.38	2 W
96792 1999 RO ₁₁₀	17.082	0.39	2 W	99014* 2001 DG ₆₅	14.449	0.22–0.26	2 W
96796* 1999 RQ ₁₂₄	5.912	0.75–0.92	2 W	99163 2001 FO ₁₄₀	12.996	0.94–0.98	2 W
96817 1999 RK ₁₆₆	5.631	0.83	2 W	99172 2001 FG ₁₆₀	7.06	0.25	2 W
96842* 1999 RH ₂₀₈	3.236	0.36	2 A	99175 2001 FY ₁₆₃	3.36	0.28	2 W
96848 1999 RL ₂₂₁	6.36	0.23	2 W	99189* 2001 FV ₁₉₀	11.049	0.65–0.89	2 W
96885 1999 TK ₂₆	10.3	0.28	2 W	99191 2001 FF ₁₉₄	56.617	0.46	2 W
96893 1999 TM ₃₉	12.	0.8	2 W	99248 2001 KY ₆₆	19.7	0.30	2–
96901 1999 TM ₇₀	19.562	0.57	2 W	99256 2001 LQ ₁₂	10.528	0.25	2 W
96974* 1999 TL ₁₉₄	3.478	0.21–0.27	2 W	99264 2001 OP ₄₂	2.95	0.34	2 W
96990* 1999 TQ ₂₁₅	16.991	0.52–0.71	2 W	99302 2001 RU ₉₂	5.65	0.21	2 W
97029 1999 TT ₃₂₃	3.32	0.32	2 W	99395 2002 AB ₁₉	7.08	0.29	2 W
97050 1999 UD ₄₅	6.11	0.51	2 W	99475 2002 CR ₁₁₈	81.	>0.74	2 T0
97058* 1999 UA ₅₉	10.919	0.69–0.73	2 W	99486 2002 CJ ₁₇₁	6.127	0.39	2 W
97059 1999 VU ₃	3.935	0.41	2 W	99611 2002 GL ₆₈	12.324	0.85	2 W
97084 1999 VJ ₄₅	76.516	0.54	2 W	99654 2002 HP ₄	4.673	0.06	1 W
97150 1999 VW ₁₅₆	74.282	0.73	2 W	99656 2002 HD ₉	5.339	0.40	2 W
97158* 1999 VV ₁₆₆	9.496	0.40–0.50	2 W	99667 2002 JO ₁	S 5.07877		p N _s
97162 1999 VW ₁₈₄	3.876	0.53	2 W	99674* 2002 JN ₁₁	7.42	0.75	1 DAW
97163 1999 VO ₁₈₆	8.314	0.36	2 W	99729* 2002 JQ ₅₅	4.62	0.60	1 W
97265* 1999 XM ₁₂₅	2.84	0.21	1 W	99742* 2002 JY ₆₈	4.663	0.54–0.69	2 W
97314 1999 XV ₂₀₆	121.670	0.67	2 W	99760* 2002 JN ₁₀₀	7.475	0.73–0.85	2 W
97346 2000 AF ₁₀				99767* 2002 JP ₁₀₄	6.78	0.70	1 DAW
97350* 2000 AT ₁₄	5.78	0.91	2 W	99812 2002 LW ₃₁	150.	0.8	2 T0
97363 2000 AS ₃₆	6.489	0.57	2 W	99870* 2002 PZ ₄₇	6.96	0.23	1+ W
97455 2000 CL ₁₃	3.983	0.39	2 W	99889 2002 PS ₁₆₄	5.865	0.19	2 W
97481* 2000 CF ₆₁	14.44	0.51	1 DAW	99907 1989 VA	2.514	0.22–0.40	3
97485* 2000 CO ₆₆	3.19	0.86	1+ W	99909 1994 PU ₂	10.5		N
97490* 2000 CU ₇₈	2.62	0.33	1 W	99913 1997 CZ ₅	2.833	0.14–0.20	3 B
97512 2000 CV ₁₁₈	9.06	0.55	2 W	99918 1998 SQ ₂	3.681	0.13	2 W
97520 2000 DA ₁₈	8.263	0.68	2 W	99942 Apophis	30.56	0.30–1.14	3 p T
97553 2000 DC ₆₄	4.104	0.50	2 W	99957 1978 VM ₄	5.716	0.70	2 W
97585 2000 EW ₂₅	12.599	0.73	2 W	99975 1981 EP ₆	32.870	0.33	2 W
97649 2000 FK ₁	7.363	1.04	3	99978* 1981 ER ₁₃	6.96	0.82	3– W
97674 2000 FJ ₅₀	8.161	0.40	2 W	99980 1981 ER ₁₈	2.35	0.13	2 W
97714 2000 GU ₉₀	5.807	0.93	2 W	99990 1981 EM ₃₅	7.072	0.21	2 W
97718 2000 GU ₁₀₇	5.786	0.60	2 W	99998 1981 ED ₄₈	2.774	0.33	2 W
97769 2000 JS ₇₀	13.916	0.27	2 W	100004 1983 VA	3.1643	0.11	3
97772 2000 JZ ₇₉	14.519	0.23	2 W	100014 1989 SR ₄	12.511	0.17	2 W
97816 2000 OW ₄₈	5.779	0.67	2 W	100047 Leobaec	3.469	0.58	2 W
97909 2000 QY ₈₁	10.512	0.80	2 W	100085 1992 UY ₄	12.9060	0.24–0.26	3
97914 2000 QK ₉₀	7.927	0.62	2 W	100113 1993 FW ₇₃	6.665	0.60	2 W
97957 2000 QB ₁₃₅	5.897	0.79	2 W	100116 1993 KG ₁	28.43	1.27	2 W
98015 2000 QS ₂₁₅	4.52	0.77	N	100196 1994 CL ₁₆	13.225	0.58	2 W
98055 2000 RR ₃₈	447.601	0.40	2 W	100229 Jeanbailly	112.945	0.51	2 W
98058 2000 RH ₄₆	3.829	0.68	2 W	100270 1994 VQ	20.851	0.53	2 W
98063 2000 RG ₄₈	358.281	0.08	1 W	100351* 1995 SU ₈₈	1.99	0.55	1 W
98081 2000 RF ₆₇	287.281	0.84	2 W	100367 1995 UY ₄₀	8.287	0.10	1 W
98129 2000 SD ₂₅		0.11	N	100384 1995 VH ₁₅	5.823	0.67	2 W
98158 2000 ST ₇₅	4.683	0.19	2 W	100386 1995 WZ ₂	8.383	0.09	1 W
98232* 2000 SJ ₁₅₁	5.55	0.78	3– W	100390* 1995 WK ₁₃	8.608	0.69–0.82	2 W
98234 2000 SA ₁₅₂	12.179	0.50	2 W	100391* 1995 WO ₁₇	4.59	0.78	2 W
98238 2000 SS ₁₅₄	3.086	0.08	1 W	100394 1995 WX ₃₂	10.798	0.10	1 W
98262 2000 SF ₁₈₅	14.19	0.95	3–	100400 1995 YX ₇	90.520	0.72	2 W
98278* 2000 SE ₂₁₂			HNWN	100468 1996 TO ₂₃	5.458	0.08	2– W
98338 2000 SB ₂₉₆	4.52	0.35	3	100478 1996 TW ₅₉	20.000	0.28	2 W
98342 2000 SD ₂₉₉	102.509	0.09	1 W	100479 1996 TT ₆₀	17.766	0.54	2 W
98346* 2000 SW ₃₀₄	5.634	0.69–0.72	2 W	100628 1997 UX ₃	3.265	0.10	1 W
98384 2000 TG ₄₂	67.293	0.75	2 W	100636 1997 UY ₂₆	5.437	0.61	2 W
98404 2000 UT ₈		0.54	W	100670 1997 WV ₅₀	6.014	0.61	2 W
98442* 2000 UT ₅₅	2.89	0.16–0.17	2 W	100685 1997 YH ₂	2.50	0.18	2 W
98454 2000 US ₆₆	7.675	0.65	2 W	100718* 1998 BR ₂₄	3.43	0.25	2+ W
98496* 2000 VT ₃	28.24	2.10	1 DAW	100756* 1998 FM ₅	6.369	0.6 –1.14	3

MINOR PLANET LIGHTCURVE PARAMETERS

Planet	Period	Variation	Note	Planet	Period	Variation	Note
100761 1998 <i>FT</i> ₁₀	5.358	0.18	2 W	102798* 1999 <i>VF</i> ₁₆₅	6.36	0.68	1+ W
100772 1998 <i>FN</i> ₃₄	4.758	0.45	2 W	102831 1999 <i>VK</i> ₁₈₉	3.689	0.21	2 W
100784 1998 <i>FM</i> ₆₁	4.301	0.40	2 W	102847 1999 <i>VV</i> ₂₀₂	27.819	0.24	2 W
100830 1998 <i>HV</i> ₉	9.00	0.32	2 W	102866 1999 <i>WA</i> ₅	3.09	0.35	3- W
100831 1998 <i>HW</i> ₉	5.203	0.80	2 W	102912* 1999 <i>XA</i> ₂₁	41.6	0.78	2+ W
100925 1998 <i>LV</i> ₃	6.734	0.30	2 W	103004* 1999 <i>XR</i> ₉₈	4.562	0.44-0.59	2 W
100926 1998 <i>MQ</i>	2.328	0.11	2+ W	103016 1999 <i>XH</i> ₁₀₅	3.360	0.42	2 W
101005 1998 <i>QD</i> ₄₇	21.541	0.06	1 W	103036 1999 <i>XP</i> ₁₁₈	9.741	0.20	2 W
101065 1998 <i>RV</i> ₁₁	4.977	0.40	3- W	103066 1999 <i>XO</i> ₁₄₁	5.53	0.62	1+ W
101097 1998 <i>RB</i> ₃₉	4.743	0.64	2 W	103067 1999 <i>XA</i> ₁₄₃	9.8490	0.49	3 W
101145 1998 <i>RD</i> ₇₀	67.938	1.02	2 W	103071 1999 <i>XU</i> ₁₅₀	7.399	0.55	2 W
101174* 1998 <i>SZ</i> ₄	8.990	0.98-1.00	2 W	103113 1999 <i>XD</i> ₁₇₈	3.82	0.40	2- W
101202* 1998 <i>SN</i> ₃₆			HNW	103173 1999 <i>XS</i> ₂₃₃	13.094	0.74	2 W
101230 1998 <i>SV</i> ₇₂	4.308	0.16	2 W	103189 1999 <i>XV</i> ₂₄₂	3.374	0.45	2 W
101263* 1998 <i>SU</i> ₁₀₅	5.154	0.78-1.03	2 W	103195 1999 <i>XZ</i> ₂₄₃	5.260	0.36	2 W
101310* 1998 <i>SJ</i> ₁₃₆			HNW	103252* 2000 <i>AG</i> ₉	6.953	0.66-0.67	2 W
101340* 1998 <i>TN</i> ₄	5.75	0.37	1 W	103277* 2000 <i>AU</i> ₃₃			HNW
101348 1998 <i>TG</i> ₁₇	2.517	0.30	2 W	103306 2000 <i>AU</i> ₅₃	13.441	0.50	2 W
101355 1998 <i>TS</i> ₃₅	21.343	0.69	2 W	103357 2000 <i>AM</i> ₉₂	5.468	0.61	2 W
101383 1998 <i>UK</i> ₂₃	2.57	0.35	2 W	103375* 2000 <i>AT</i> ₁₁₄	7.306	0.71-0.79	2 W
101392 1998 <i>UW</i> ₃₄	4.941	0.39	2 W	103405 2000 <i>AM</i> ₁₃₄	260.	0.5	1 W
101429* 1998 <i>VF</i> ₃₁	7.70	0.07	2- W	103424 2000 <i>AY</i> ₁₅₅	4.51	0.12	2 W
101430 1998 <i>VE</i> ₃₂	40.66	0.22	2+ W	103468* 2000 <i>AX</i> ₂₀₉	9.32	0.56	1 W
101448 1998 <i>VF</i> ₅₄	73.443	0.08	1 W	103501 2000 <i>AT</i> ₂₄₅	29.95	0.16	2 1A
101496 1998 <i>XM</i> ₃	5.052	0.65	3 W	103502 2000 <i>AF</i> ₂₄₇	5.784	0.37	2 W
101513* 1998 <i>XV</i> ₂₅			HNW	103515 2000 <i>BR</i> ₄	4.921	0.68	2 W
101549* 1998 <i>YY</i> ₂₉	56.7	0.51-0.70	2 W	103520* 2000 <i>BB</i> ₆	5.017	0.66-0.72	2 W
101603 1999 <i>CB</i> ₂	6.790	0.79	2 W	103537 2000 <i>BO</i> ₁₇	9.310	0.33	2 W
101610 1999 <i>CW</i> ₇	3.845	0.38	N	103541* 2000 <i>BU</i> ₁₈	7.11	0.84	2- W
101625 1999 <i>CP</i> ₂₀	4.544	0.64	2 W	103579 2000 <i>CZ</i> ₃	66.444	0.63	2 W
101643 1999 <i>CU</i> ₅₁	9.249	0.59	2 W	103695 2000 <i>CL</i> ₇₅	5.084	0.27	2 W
101663 1999 <i>CW</i> ₈₄	6.374	0.99	2 W	103708* 2000 <i>CD</i> ₈₄	6.011	0.15-0.21	2 W
101668* 1999 <i>CR</i> ₉₅	16.54	0.38-0.90	3 B?W	103717 2000 <i>CS</i> ₉₁	12.668	0.09	1 W
101673 1999 <i>CE</i> ₁₀₄	5.444	0.33	2 W	103754 2000 <i>CP</i> ₁₂₂	5.081	0.85	2 W
101703 1999 <i>CA</i> ₁₅₀	3.8953	0.29	3- W	103759 2000 <i>CG</i> ₁₂₅			W
101726 1999 <i>EJ</i> ₆	56.713	0.31	2 W	103914 2000 <i>DR</i> ₆₀	7.905	0.22	3- W
101734 1999 <i>FU</i> ₁	8.069	0.32	2 W	103929 2000 <i>DU</i> ₆₄	19.088	0.50	2 W
101769 1999 <i>FF</i> ₅₂	8.7	0.43	2 D	103930 2000 <i>DG</i> ₆₅	4.397	0.70	2 W
101771 1999 <i>FB</i> ₅₈	4.69	0.66	2+ W	103938 2000 <i>DU</i> ₆₈	5.96	0.19	2 W
101810* 1999 <i>JA</i> ₆	4.44	0.49	2 W	103944* 2000 <i>DE</i> ₇₁			HNW
101812 1999 <i>JD</i> ₇	7.420	0.22	NA	103980 2000 <i>DT</i> ₈₅	4.310	0.51	2 W
101867 1999 <i>LR</i> ₁₅	9.472	0.89	2 W	104016 2000 <i>DH</i> ₁₀₈	8.89	0.29	2 W
101878 1999 <i>NR</i> ₂₃	5.413	0.80	3 W	104057 2000 <i>EU</i> ₁₇	7.290	0.40	2 W
101879 1999 <i>NP</i> ₂₆	11.547	0.09	1 W	104103* 2000 <i>EW</i> ₄₃	13.33	0.50	2- W
101924 1999 <i>RD</i> ₁₈	4.231	0.55	2 W	104108 2000 <i>EH</i> ₄₅		0.54	W
101935 1999 <i>RV</i> ₂₂	5.786	0.10	1 W	104113 2000 <i>EJ</i> ₄₉	5.143	0.57	2 W
101943 1999 <i>RS</i> ₂₄	2.782	0.15	2 W	104127* 2000 <i>EG</i> ₅₉	8.50	0.85	2 W
101954 1999 <i>RY</i> ₃₃	2.194	0.45	2 W	104182 2000 <i>EB</i> ₉₆	195.786	0.71	2 W
101955 Benu	4.2968	0.1 -0.3	3 R	104188 2000 <i>EW</i> ₉₉	50.097	0.83	2 W
101974 1999 <i>RC</i> ₄₉	2.274	0.41	2 W	104189 2000 <i>EQ</i> ₁₀₀	3.89	0.19	2 W
101978 1999 <i>RZ</i> ₅₂	5.42	0.30	2 W	104193 2000 <i>EO</i> ₁₀₂	2.7065	0.08	2- W
102024* 1999 <i>RY</i> ₉₄			HNW	104218 2000 <i>EU</i> ₁₁₉	3.640	0.49	2 W
102032* 1999 <i>RC</i> ₁₀₆	5.659	0.63-0.74	2 W	104245 2000 <i>ED</i> ₁₃₅	3.07	0.33	2 W
102063 1999 <i>RR</i> ₁₃₄	7.53	0.11	2+ W	104293 2000 <i>EN</i> ₁₆₆	3.398	0.51	2 W
102069* 1999 <i>RF</i> ₁₃₉	5.00	0.62-0.70	3- W	104296 2000 <i>ET</i> ₁₆₉	167.346	0.09	1 W
102087 1999 <i>RT</i> ₁₅₁	8.437	0.55	2 W	104465* 2000 <i>GS</i> ₁₃			HNW
102112 1999 <i>RR</i> ₁₆₇	6.681	0.63	2 W	104505 2000 <i>GR</i> ₃₉	158.468	0.63	2 W
102115 1999 <i>RZ</i> ₁₆₈	2.989	0.28	2 W	104551* 2000 <i>GU</i> ₆₃	7.78	1.04	1 DAW
102120 1999 <i>RO</i> ₁₇₂	4.890	0.47	2 W	104579* 2000 <i>GW</i> ₈₀	5.93	0.84	2 W
102129 1999 <i>RM</i> ₁₇₉	44.408	0.94	2 W	104624 2000 <i>GD</i> ₁₁₂	3.649	0.09	1 W
102161 1999 <i>RM</i> ₂₁₇	3.724	0.63	2 W	104626 2000 <i>GT</i> ₁₁₂	5.096	0.79	2 W
102189 1999 <i>SX</i> ₁	9.898	0.36	2 W	104643 2000 <i>GY</i> ₁₂₂	5.647	0.80	2 W
102312 1999 <i>TA</i> ₉₈	10.359	0.22	2 W	104653 2000 <i>GB</i> ₁₃₄	10.814	0.52	2 W
102333 1999 <i>TK</i> ₁₁₂	7.16	1.04	2 W	104683 2000 <i>GF</i> ₁₅₄	9.249	0.09	1 W
102358* 1999 <i>TN</i> ₁₃₄	17.695	0.50-0.58	2 W	104718 2000 <i>GQ</i> ₁₇₄	7.57	0.71	2 W
102380 1999 <i>TE</i> ₁₅₀	63.867	0.54	2 W	104722 2000 <i>GU</i> ₁₇₅	>8.	>0.11	N
102405 1999 <i>TP</i> ₁₇₂	4.329	0.64	2 W	104729 2000 <i>GT</i> ₁₈₁	10.368	0.76	2 W
102423* 1999 <i>TJ</i> ₁₉₂			HNW	104748* 2000 <i>HO</i> ₁₂			HNW
102479* 1999 <i>TQ</i> ₂₅₀	5.52	0.32	2 W	104763* 2000 <i>HT</i> ₂₂			HNW
102528 1999 <i>US</i> ₃	4.682	0.45-0.50	3 W	104782 2000 <i>HJ</i> ₃₂	9.509	0.54	2 W
102529 1999 <i>UD</i> ₄	2.238	0.07	1 W	104844* 2000 <i>HE</i> ₇₂	5.58	0.68	2- W
102539 1999 <i>UT</i> ₁₀	2.858	0.15	2 W	104851 2000 <i>HH</i> ₇₅	8.241	0.31	2 W
102589 1999 <i>UP</i> ₅₂	8.068	0.58	2 W	104900* 2000 <i>JL</i> ₇	4.49	0.19	2+ W
102605* 1999 <i>VH</i> ₉	2.27	0.48	3- W	104912 2000 <i>JB</i> ₁₅	4.443	0.28	2 W
102712 1999 <i>VQ</i> ₉₃	6.560	0.30	2 W	104957 2000 <i>JR</i> ₄₉	4.244	0.25	2 W
102720* 1999 <i>VW</i> ₉₈	3.81	0.77	1+ W	104984* 2000 <i>JL</i> ₇₇	3.09	0.39	1+ W
102727 1999 <i>VF</i> ₁₀₁	9.40	1.16	3- W	104997 2000 <i>KS</i> ₂	28.388	0.71-0.74	2 W
102760* 1999 <i>VG</i> ₁₃₂	7.44	0.65	2 W	104998 2000 <i>KT</i> ₂	16.8	0.39	2 W
102780 1999 <i>VO</i> ₁₄₇	34.217	0.70	2 W	105023* 2000 <i>KD</i> ₃₀	4.66	0.84	2 W
102790 1999 <i>VH</i> ₁₅₇	6.110	0.09	1 W	105026 2000 <i>KX</i> ₃₀	4.25	0.52-0.60	2 W

MINOR PLANET LIGHTCURVE PARAMETERS

Planet	Period	Variation	Note	Planet	Period	Variation	Note
105047 2000 <i>KG</i> ₅₂			W	106866 2000 <i>YQ</i> ₂₈	5.228	0.79	2 W
105063 2000 <i>KZ</i> ₆₂	5.006	0.54	2 W	106914 2000 <i>YO</i> ₅₁	9.008	0.28	2 W
105131* 2000 <i>MD</i> ₃			HNW	106984* 2000 <i>YJ</i> ₉₈	5.25	0.60	1 W
105140 2000 <i>NL</i> ₁₀	6.9269	0.47–0.55	3	106999 2000 <i>YG</i> ₁₀₉	5.408	0.58	2 W
105155* 2000 <i>NG</i> ₂₆	5.62	0.15–0.15	2	107012* 2000 <i>YS</i> ₁₁₃	2.73	0.23	2 W
105158 2000 <i>OL</i>	3.136	0.20–0.23	3	107016 2000 <i>YK</i> ₁₁₅	5.894	0.56	2 W
105218 2000 <i>OJ</i> ₅₇	3.872	0.19	2 W	107026 2000 <i>YQ</i> ₁₁₈	2.789	0.41	2 W
105291* 2000 <i>QY</i> ₄₇	5.19	0.85–1.35	2+	107062* 2001 <i>AP</i> ₁₀	7.48	0.72	1 DAW
105312 2000 <i>QC</i> ₇₁	8.91	0.89	2+	107084 2001 <i>AQ</i> ₂₄	4.449	0.64	2 W
105356 2000 <i>QF</i> ₁₀₈	5.218	0.63	2 W	107110 2001 <i>AG</i> ₃₇	5.981	0.21	2 W
105375 2000 <i>QC</i> ₁₂₉	6.529	0.62	2 W	107140 2001 <i>BC</i> ₅	3.473	0.09	1 W
105411* 2000 <i>QQ</i> ₁₅₄	2.94	0.26	2–	107239 2001 <i>BS</i> ₅₆	87.766	0.49	2 W
105427 2000 <i>QL</i> ₁₇₃	15.514	0.28	2 W	107270 2001 <i>BN</i> ₇₀	57.821	0.08	1 W
105473 2000 <i>QA</i> ₂₁₁	4.574	0.73	2 W	107273* 2001 <i>BT</i> ₇₁	5.93	0.78	3–
105542 2000 <i>RR</i> ₄₀	11.928	0.64	2 W	107309 2001 <i>CU</i> ₈	17.216	0.44	2 W
105546 2000 <i>RM</i> ₄₄	3.78	0.10	1 W	107355 2001 <i>CP</i> ₂₇	78.211	0.42	2 W
105547 2000 <i>RX</i> ₄₄	3.01	0.41	2 W	107373 2001 <i>CR</i> ₃₁	19.424	0.44	2 W
105556 2000 <i>RU</i> ₅₃	29.958	0.76	2 W	107381 2001 <i>CP</i> ₃₉	6.376	0.88	2 W
105625* 2000 <i>SG</i> ₄	4.59	0.82	2 W	107426 2001 <i>DL</i> ₁₃	3.598	0.16	2 W
105631 2000 <i>SU</i> ₇	65.032	0.82	2 W	107448 2001 <i>DS</i> ₁₉	5.551	0.55	2 W
105654 2000 <i>SX</i> ₂₆	348.741	0.70	2 W	107579 2001 <i>DF</i> ₉₆	9.069	0.42	2 W
105695 2000 <i>SC</i> ₆₃	4.698	0.52	2 W	107587 2001 <i>DA</i> ₁₀₁	4.165	0.41	2 W
105742* 2000 <i>SH</i> ₉₀	32.372	0.71–0.97	2 W	107632 2001 <i>EX</i> ₁₁	5.52	0.73	2+
105774 2000 <i>SX</i> ₁₁₁	10.04	0.78	2–	107668 2001 <i>FY</i> ₄	32.9	0.06	1 W
105775 2000 <i>SY</i> ₁₁₂	3.69	0.60	2 W	107693 2001 <i>FE</i> ₁₅	13.674	0.75	2 W
105777* 2000 <i>SX</i> ₁₁₃	6.442	0.71–0.94	2 W	107750 2001 <i>FY</i> ₃₅	5.605	0.42	2 W
105832 2000 <i>SM</i> ₁₄₈	8.579	1.23	2 W	107849* 2001 <i>FV</i> ₇₆	5.668	0.39–0.40	2 W
105841 2000 <i>ST</i> ₁₅₅	9.231	0.61	2 W	107855 2001 <i>FU</i> ₇₈	114.598	0.37	2 W
105844 2000 <i>SH</i> ₁₆₀	38.26	1.45	2 T0	107901 2001 <i>FY</i> ₉₅	5.007	0.65	2 W
105892 2000 <i>SO</i> ₁₈₃	5.366	0.55	2 W	107924* 2001 <i>FO</i> ₁₀₃	3.599	0.48	3–
105955 2000 <i>SU</i> ₂₄₉	5.758	0.71	2 W	107991 2001 <i>FK</i> ₁₃₆	2.299	0.07	1 W
106021 2000 <i>SX</i> ₂₉₄	9.873	0.76	2 W	107998 2001 <i>FM</i> ₁₃₇	6.452	0.66	2 W
106052 2000 <i>ST</i> ₃₁₂	8.805	0.81	2 W	108004* 2001 <i>FS</i> ₁₃₈	8.764	0.60–0.78	2 W
106054 2000 <i>SN</i> ₃₁₃	5.409	0.57	2 W	108031 2001 <i>FC</i> ₁₅₂	3.590	0.21	2 W
106058 2000 <i>SE</i> ₃₁₆	12.793	1.03	2 W	108040 2001 <i>FA</i> ₁₅₅	3.338	0.04	1 W
106069 2000 <i>SJ</i> ₃₃₀	2.557	0.09	1 W	108067 2001 <i>FO</i> ₁₆₅	109.334	0.73	2 W
106095 2000 <i>SP</i> ₃₆₉	13.48	0.29	2 W	108074 2001 <i>FK</i> ₁₆₉	8.691	0.34	2 W
106121 2000 <i>TP</i> ₃₃	8.48	0.98	3	108081 2001 <i>FM</i> ₁₇₁	31.386	0.67	2 W
106151 2000 <i>TR</i> ₅₆	6.834	0.77	2 W	108111 2001 <i>FY</i> ₁₉₄	2.861	0.29	2 W
106203 2000 <i>UB</i> ₂₃	5.69	0.79	2+	108163 2001 <i>HA</i> ₆	383.502	0.71	2 W
106206 2000 <i>UR</i> ₂₉	7.317	0.04	2 A	108177* 2001 <i>HW</i> ₁₂	10.349	0.46–0.58	2 W
106241 2000 <i>UC</i> ₄₇	5.397	0.27	2 W	108184 2001 <i>HH</i> ₁₅		1.36	2 W
106263 2000 <i>UG</i> ₆₂	12.558	0.75	2 W	108190 2001 <i>HL</i> ₁₆	8.384	0.48	2 W
106275* 2000 <i>UY</i> ₆₉	38.293	0.26–0.30	2 W	108204 2001 <i>HX</i> ₂₂	2.49	0.16	2 W
106322 2000 <i>UQ</i> ₉₉	6.570	0.50	2 W	108227 2001 <i>HY</i> ₃₆	9.845	0.71	2 W
106328 2000 <i>UV</i> ₁₀₂	10.21	0.38	2 W	108270 2001 <i>HL</i> ₅₆	2.939	0.48	2 W
106395* 2000 <i>VL</i> ₂₄			HNW	108304 2001 <i>JP</i>	7.591	0.29	2 W
106400 2000 <i>VO</i> ₂₇	6.674	0.71	2 W	108352 2001 <i>KT</i> ₉	2.394	0.14	2 W
106408 2000 <i>VK</i> ₃₀	4.000	0.75	2 W	108353 2001 <i>KH</i> ₁₀	6.255	0.11	2 W
106414 2000 <i>VM</i> ₃₂	16.731	0.23	2 W	108365 2001 <i>KU</i> ₁₅	5.114	0.62	2 W
106448 2000 <i>VN</i> ₅₆	4.020	0.09	1 W	108438* 2001 <i>KY</i> ₄₃	17.466	0.55–0.75	2 W
106474* 2000 <i>WZ</i> ₁₃			HNW	108445 2001 <i>KZ</i> ₄₆	2.716	0.27	2 W
106480 2000 <i>WX</i> ₁₈	2.753	0.10	1 W	108447 2001 <i>KN</i> ₄₇	6.390	0.41	2 W
106538* 2000 <i>WK</i> ₆₃	51.2	0.60	2	108465 2001 <i>KJ</i> ₅₆	15.458	0.39	2 W
106570* 2000 <i>WY</i> ₈₉	6.927	0.65–0.67	2 W	108472 2001 <i>KF</i> ₅₇	2.146	0.08	1 W
106574 2000 <i>WH</i> ₉₄	40.171	0.68	2 W	108479* 2001 <i>KE</i> ₆₀	8.167	0.33–0.37	2 W
106590 2000 <i>WQ</i> ₁₀₇	21.67	0.16	NA	108486 2001 <i>KL</i> ₆₂	21.431	0.71	2 W
106595 2000 <i>WT</i> ₁₀₉	3.347	0.60	2 W	108496 2001 <i>KD</i> ₆₄	5.475	0.80	2 W
106598 2000 <i>WZ</i> ₁₁₂	5.981	0.54	2 W	108497 2001 <i>KJ</i> ₆₄	5.42	1.24	2 W
106604 2000 <i>WN</i> ₁₁₄	5.025	0.61	2 W	108516 2001 <i>KR</i> ₇₅	6.681	0.72–0.75	2 W
106615* 2000 <i>WY</i> ₁₂₁			HNW	108519 2001 <i>LF</i>	4.495	0.10	N
106620 2000 <i>WL</i> ₁₂₄	104.5	0.58	2 T–	108521* 2001 <i>LL</i>	7.80	0.44	2 W
106637 2000 <i>WU</i> ₁₃₂	3.908	0.38	2 W	108522 2001 <i>LQ</i>	8.359	0.95	2 W
106647 2000 <i>WC</i> ₁₃₅	411.094	0.07	1 W	108528 2001 <i>LQ</i> ₂	5.5	0.75	2+
106661 2000 <i>WH</i> ₁₄₄	5.40	0.72	2 W	108532 2001 <i>LJ</i> ₄	4.567	0.67	2 W
106690 2000 <i>WK</i> ₁₅₈	3.054	0.10	1 W	108543 2001 <i>LL</i> ₉	2.67	0.10	2 W
106692* 2000 <i>WF</i> ₁₅₉			HNW	108549 2001 <i>LJ</i> ₁₁	8.879	0.52	2 W
106711 2000 <i>WE</i> ₁₇₃	3.474	0.08	1 W	108553* 2001 <i>LS</i> ₁₂	3.602	0.30–0.43	2 W
106721 2000 <i>WJ</i> ₁₇₇	9.219	0.82	2 W	108592 2001 <i>MC</i> ₁₃	208.076	0.08	1 W
106723 2000 <i>WE</i> ₁₇₉	368.455	0.74	2 W	108616 2001 <i>ML</i> ₂₅	2.050	0.08	1 W
106757 2000 <i>XW</i> ₅	17.371	0.44	2 W	108658 2001 <i>ND</i> ₂₀	7.051	0.38	2 W
106784 2000 <i>XQ</i> ₂₁	6.190	0.60	2 W	108671 2001 <i>OW</i> ₂	14.959	0.54	2 W
106790 2000 <i>XW</i> ₂₃	43.152	0.07	1 W	108677 2001 <i>OV</i> ₅	10.864	0.08	1 W
106802 2000 <i>XX</i> ₃₂	80.401	0.81	2 W	108704 2001 <i>OW</i> ₁₇	3.078	0.27	2 W
106807 2000 <i>XE</i> ₃₇	40.062	0.62	2 W	108797* 2001 <i>OV</i> ₆₉	5.460	0.54–0.55	2 W
106818 2000 <i>XV</i> ₄₄	19.982	0.58	2 W	108806* 2001 <i>OK</i> ₇₄	8.030	0.29–0.31	2 W
106821 2000 <i>XX</i> ₄₅	5.484	0.34	2 W	108818* 2001 <i>OM</i> ₇₇	7.102	0.43–0.57	2 W
106836 2000 <i>YG</i> ₈	20.1	0.58	2 W	108832* 2001 <i>OX</i> ₈₃			HNW
106845 2000 <i>YR</i> ₁₄	86.126	0.84	2 W	108846 2001 <i>OW</i> ₉₁	2.99	0.45	1
106854 2000 <i>YB</i> ₂₁	5.473	0.65	2 W	108882* 2001 <i>OF</i> ₁₀₆	6.53	0.55	1+

MINOR PLANET LIGHTCURVE PARAMETERS

Planet	Period	Variation	Note	Planet	Period	Variation	Note
108892 2001 <i>PM</i> ₂	204.792	0.86	2 W	110558 2001 <i>TX</i> ₁₀₆	3.720	0.21	2 W
108904 2001 <i>PC</i> ₉	30.139	0.40	2 W	110572* 2001 <i>TH</i> ₁₁₅	3.19	0.16	2 W
108912* 2001 <i>PD</i> ₁₂	8.520	0.24–0.36	2 W	110586 2001 <i>TN</i> ₁₂₂	133.181	0.67	2 W
108930* 2001 <i>PQ</i> ₂₂	5.606	0.35–0.36	2 W	110593 2001 <i>TD</i> ₁₂₈	4.288	0.39	2 W
108931* 2001 <i>PR</i> ₂₂	14.618	0.68–0.73	2 W	110621 2001 <i>TE</i> ₁₅₁	12.249	0.35	2 W
108938 2001 <i>PP</i> ₂₅	3.166	0.41	2 W	110634 2001 <i>TY</i> ₁₆₅	4.9311	0.26	NA
108973 2001 <i>PV</i> ₄₂	5.5	2 1	2 W	110643 2001 <i>TN</i> ₁₆₈	41.459	0.59	2 W
109018 2001 <i>QA</i> ₆	11.29	0.71	2 W	110644 2001 <i>TS</i> ₁₆₈	28.645	0.49	2 W
109076 2001 <i>QS</i> ₂₄	39.574	0.78	2 W	110649 2001 <i>TK</i> ₁₆₉	2.384	0.08	1 W
109104* 2001 <i>QV</i> ₃₆	3.542	0.18–0.22	2 W	110664 2001 <i>TK</i> ₁₈₃	8.277	0.38	2 W
109113* 2001 <i>QB</i> ₄₁	2.51	0.53	2 W	110708 2001 <i>TG</i> ₂₂₅	6.487	0.74	2 W
109118 2001 <i>QH</i> ₄₂	7.898	0.68	2 W	110755 2001 <i>UT</i> ₁₃	46.9	0.80	NA
109122* 2001 <i>QZ</i> ₄₃	3.92	0.44	2 W	110765* 2001 <i>UK</i> ₂₃	7.74	0.99	2 W
109131* 2001 <i>QV</i> ₅₁			HNW	110777 2001 <i>UZ</i> ₂₉	9.603	0.75	2 W
109137* 2001 <i>QO</i> ₅₄	5.58	1.13	2 W	110796 2001 <i>UW</i> ₃₇	9.228	0.38	2 W
109180 2001 <i>QD</i> ₆₇	2.723	0.09	1 W	110826 2001 <i>UN</i> ₅₄	5.349	0.61	2 W
109187 2001 <i>QK</i> ₇₁	19.737	0.60	2 W	110835 2001 <i>UA</i> ₆₅	90.042	0.32	2 W
109204 2001 <i>QE</i> ₈₁	190.100	0.71	2 W	110983 2001 <i>UF</i> ₁₈₉	14.946	0.25	2 W
109211 2001 <i>QO</i> ₈₃	5.106	0.51	2 W	110993 2001 <i>UO</i> ₂₀₅	7.433	0.35	2 W
109220 2001 <i>QE</i> ₈₇	77.375	0.45	2 W	110998 2001 <i>UF</i> ₂₁₉	14.706	0.48	2 W
109233 2001 <i>QV</i> ₉₃	3.972	0.49	2 W	111007 2001 <i>VG</i> ₁	6.783	0.42	2 W
109244 2001 <i>QZ</i> ₉₈	134.423	0.36	2 W	111020 2001 <i>VE</i> ₁₁	3.202	0.16	2 W
109250* 2001 <i>QX</i> ₁₀₂	5.940	0.33–0.40	2 W	111033 2001 <i>VK</i> ₂₀	26.200	0.55	2 W
109280* 2001 <i>QO</i> ₁₁₈	8.00	0.92	1 DAW	111073 2001 <i>VU</i> ₅₁	5.500	0.23	2 W
109291 2001 <i>QN</i> ₁₂₃	5.870	0.49	2 W	111074 2001 <i>VW</i> ₅₁	130.912	0.77	2 W
109334* 2001 <i>QL</i> ₁₄₃	11.71	0.37	2–	111086 2001 <i>VP</i> ₆₁	3.922	0.36	2 W
109362 2001 <i>QO</i> ₁₅₇	194.772	0.08	1 W	111094* 2001 <i>VA</i> ₆₆	9.06	0.59	1 DAW
109368* 2001 <i>QM</i> ₁₅₈			HNW	111102 2001 <i>VF</i> ₇₄	69.260	0.72	2 W
109402 2001 <i>QM</i> ₁₈₀	5.083	0.57	2 W	111139 2001 <i>VS</i> ₉₅	6.74	1.09	3–
109423 2001 <i>QJ</i> ₁₉₃	19.805	0.81	2 W	111197* 2001 <i>WF</i> ₂₀	3.52	0.73	1+
109455* 2001 <i>QG</i> ₂₁₀	2.69	0.31	2 W	111208 2001 <i>WW</i> ₃₀	4.861	0.12	2 W
109484* 2001 <i>QN</i> ₂₂₃	7.50	0.66	2 W	111246 2001 <i>XD</i> ₄	5.172	0.44	2 W
109510 2001 <i>QM</i> ₂₃₅	5.261	0.64	2 W	111259 2001 <i>XY</i> ₂₂	3.885	0.17	2 W
109512* 2001 <i>QA</i> ₂₃₆	10.728	0.56–0.62	2 W	111297 2001 <i>XH</i> ₅₅	8.078	0.49	2 W
109529 2001 <i>QE</i> ₂₄₈	9.674	0.54	2 W	111332 2001 <i>XF</i> ₈₉	6.193	0.74	2 W
109582* 2001 <i>QL</i> ₂₇₅			HNW	111334 2001 <i>XM</i> ₉₃	3.802	0.53	2 W
109583* 2001 <i>QP</i> ₂₇₅	4.335	0.48–0.61	2 W	111346 2001 <i>XS</i> ₁₀₃	747.709	0.07	1 W
109587 2001 <i>QJ</i> ₂₇₇	208.404	0.54	2 W	111493 2001 <i>YB</i> ₅₃	9.521	0.20	2 W
109596* 2001 <i>QK</i> ₂₈₁	4.17	0.44	2 W	111499 2001 <i>YF</i> ₆₁	6.69	0.32	2 W
109625 2001 <i>QK</i> ₂₉₆	51.544	0.56	2 W	111517 2001 <i>YC</i> ₉₂	11.258	0.66	2 W
109653* 2001 <i>RS</i> ₇	6.499	0.67–0.68	2 W	111538 2001 <i>YH</i> ₁₂₂	6.143	0.82	2 W
109655 2001 <i>RW</i> ₈	10.086	0.22	2 W	111540 2001 <i>YL</i> ₁₃₁	57.288	0.54	2 W
109663 2001 <i>RO</i> ₁₈	3.84	0.36	2 W	111725 2002 <i>CE</i> ₅₀	8.567	0.70	2 W
109715 2001 <i>RO</i> ₄₈	15.206	0.37	2 W	111744 2002 <i>CY</i> ₉₉	5.82	0.73	2 W
109777* 2001 <i>RY</i> ₈₁	7.93	0.93	2 W	111899 2002 <i>FD</i> ₁₁	5.841	0.89	2 W
109791* 2001 <i>RL</i> ₉₁			HNW	111950 2002 <i>GM</i> ₅₇	8.104	0.59	2 W
109792 2001 <i>RN</i> ₉₁	>16.		N	111981 2002 <i>GW</i> ₉₃	15.766	0.77	2 W
109829* 2001 <i>RK</i> ₁₁₈			HNW	112011 2002 <i>GW</i> ₁₅₈	7.105	0.79	2 W
109871 2001 <i>RD</i> ₁₅₁	5.659	0.26	2 W	112016 2002 <i>GC</i> ₁₆₄	6.696	0.79	2 W
109889 2001 <i>SB</i> ₁₀	4.844	0.31	2 W	112083* 2002 <i>JC</i> ₂₆			HNW
109900 2001 <i>SS</i> ₂₀	7.432	0.55	2 W	112191* 2002 <i>JU</i> ₁₀₅	2.59	0.26–0.33	2 W
109950* 2001 <i>SB</i> ₄₆	27.866	0.29–0.53	2 W	112248 2002 <i>LG</i> ₉	10.74	0.06	2 W
109978* 2001 <i>ST</i> ₅₄	>144.	>0.3	HNW	112273* 2002 <i>LL</i> ₂₃	3.764	0.51–0.75	2 W
109998 2001 <i>SN</i> ₆₂	8.756	0.08	1 W	112277 2002 <i>LO</i> ₂₅	19.015	0.57	2 W
109999* 2001 <i>SZ</i> ₆₂	8.371	0.39–0.42	2 W	112324 2002 <i>MA</i> ₃	110.784	0.59	2 W
110004 2001 <i>SF</i> ₆₄	4.217	0.10	2 W	112329 2002 <i>NY</i>	3.638	0.08	1 W
110047* 2001 <i>SM</i> ₉₀	3.30	0.67	2 W	112382 2002 <i>NV</i> ₂₇	3.332	0.22	2 W
110059 2001 <i>SK</i> ₁₀₇	125.176	0.46	2 W	112383 2002 <i>NL</i> ₂₈	14.932	0.69	2 W
110062 2001 <i>SG</i> ₁₀₈	11.393	0.28	2 W	112428 2002 <i>NJ</i> ₅₀	92.129	0.86	2 W
110066 2001 <i>SW</i> ₁₀₉	4.970	0.25	2 W	112430 2002 <i>NJ</i> ₅₁	10.878	0.69	2 W
110091* 2001 <i>SW</i> ₁₂₀			HNW	112435 2002 <i>OO</i>	5.540	0.71	2 W
110096 2001 <i>SW</i> ₁₂₂	2.681	0.29	2 W	112441* 2002 <i>OL</i> ₃	7.378	0.82–0.83	2 W
110119 2001 <i>SP</i> ₁₃₈	147.406	0.48	2 W	112443 2002 <i>OF</i> ₄	3.806	0.69	2 W
110153 2001 <i>SV</i> ₁₅₈	15.179	0.31	2 W	112465 2002 <i>OR</i> ₁₃	9.050	0.71	2 W
110212 2001 <i>SR</i> ₂₁₄	3.403	0.65	2 W	112516 2002 <i>PG</i> ₂₆	102.856	0.63	2 W
110217 2001 <i>ST</i> ₂₂₀	4.829	0.65	2 W	112560 2002 <i>PD</i> ₄₇	4.959	0.60	2 W
110245* 2001 <i>ST</i> ₂₃₄	5.68	1.05	1+	112572 2002 <i>PO</i> ₅₁	4.182	0.51	2 W
110280 2001 <i>SS</i> ₂₅₄	5.55	0.72	2 W	112717 2002 <i>PX</i> ₁₁₅	60.296	0.29	2 W
110395 2001 <i>TO</i> ₈	27.634	0.10	1 W	112745 2002 <i>PK</i> ₁₃₂	3.964	0.19	2 W
110411* 2001 <i>TQ</i> ₁₅	5.42	0.21	2 W	112822 2002 <i>QG</i> ₈		1.04	I
110427 2001 <i>TE</i> ₂₅	13.532	0.70	2 W	112858 2002 <i>QY</i> ₂₉	4.07	0.34	2 W
110432* 2001 <i>TE</i> ₂₇	3.44	0.70	2–	112888* 2002 <i>QR</i> ₄₄	35.102	0.40–0.52	2 W
110448 2001 <i>TP</i> ₃₈	4.838	0.66	2 W	112922* 2002 <i>QN</i> ₆₃			HNW
110465* 2001 <i>TT</i> ₅₁	15.00	0.92	1 DAW	112970 2002 <i>RN</i> ₁₉	2.281	0.17	2 W
110472 2001 <i>TK</i> ₅₅	7.692	0.41	2 W	112985 2002 <i>RS</i> ₂₈	4.787	0.06–0.24	2 A
110487* 2001 <i>TW</i> ₆₁	6.62	0.19	2 W	113006* 2002 <i>RG</i> ₃₉	5.484	0.70–0.85	2 W
110492 2001 <i>TE</i> ₆₃	8.653	0.67	2 W	113008 2002 <i>RQ</i> ₃₉	5.75	0.71	2 W
110518* 2001 <i>TY</i> ₇₈	13.633	0.57–0.58	2 W	113018* 2002 <i>RQ</i> ₄₂			HNW
110519 2001 <i>TJ</i> ₇₉	4.263	0.37	2 W	113021 2002 <i>RO</i> ₄₃	10.769	0.52	2 W
110541 2001 <i>TE</i> ₉₆	2.777	0.24	2 W	113049* 2002 <i>RM</i> ₅₂	6.394	0.51–0.60	2 W

MINOR PLANET LIGHTCURVE PARAMETERS

Planet		Period	Variation	Note		Planet		Period	Variation	Note	
113077	2002 <i>RR</i> ₆₃	5.301	0.61	2	W	114556	2003 <i>BR</i> ₅₀	213.938	0.60	2	W
113114	2002 <i>RK</i> ₇₉	5.168	0.55	2	W	114561	2003 <i>BP</i> ₅₂	22.33	0.58	2	W
113117	2002 <i>RF</i> ₈₀	12.344	0.57–0.70	2	W	114574	2003 <i>BL</i> ₆₈	5.339	0.40	2	W
113132*	2002 <i>RM</i> ₈₆	6.343	0.52–0.68	2	W	114592	2003 <i>CU</i> ₂	11.058	0.61	2	W
113166*	2002 <i>RV</i> ₁₀₀	5.6467	0.45–0.60	3	W	114656	2003 <i>FE</i> ₃	11.318	0.48	2	W
113182	2002 <i>RV</i> ₁₀₅	8.591	0.54	2	W	114724	2003 <i>GK</i> ₃₆	12.822	0.63	2	W
113187	2002 <i>RN</i> ₁₀₆	12.077	0.61	2	W	114728	2003 <i>HP</i> ₃	3.33	0.20	2	W
113216*	2002 <i>RF</i> ₁₁₉	11.64	0.81	1	DAW	114752*	2003 <i>HW</i> ₄₁	3.864	0.42–0.51	2	W
113268*	2002 <i>RE</i> ₁₅₁	2.88	0.35	2	W	114756	2003 <i>HC</i> ₄₅	3.18	0.48	2	W
113315	2002 <i>RD</i> ₁₉₇	5.003	0.95	2	W	114802	2003 <i>NN</i> ₈	14.743	0.42	2	W
113381	2002 <i>SC</i> ₁₁	7.019	0.92	2	W	114813*	2003 <i>OB</i> ₇	3.75	0.20	1	W
113387	2002 <i>SH</i> ₁₆	7.376	0.33	2	W	114819	2003 <i>OU</i> ₁₁	>10.		N	
113390*	Helvetia				HNW	114822	2003 <i>ON</i> ₁₅	4.561	0.84	2	W
113417*	2002 <i>SE</i> ₃₀				HNW	114830	2003 <i>OX</i> ₂₁	13.282	0.24	2	W
113478*	2002 <i>ST</i> ₆₃	5.45	0.72	2–	W	114831	2003 <i>OG</i> ₂₂	5.686	0.42	2	W
113489	2002 <i>TW</i> ₂	5.305	0.75	2	W	114901*	2003 <i>QK</i> ₂₅				HNW
113507	2002 <i>TS</i> ₇	106.591	0.62	2	W	114915*	2003 <i>QU</i> ₃₄	16.752	0.70–0.74	2	W
113515*	2002 <i>TT</i> ₁₃	4.583	0.58–0.69	2	W	114923*	2003 <i>QL</i> ₄₀				HNW
113546*	2002 <i>TR</i> ₂₇	7.01	1.20	1	W	114935	2003 <i>QF</i> ₅₀	8.085	0.54	2	W
113567	2002 <i>TV</i> ₃₆	5.5	1.46	2	W	114999*	2003 <i>QR</i> ₇₄	5.397	0.65–0.80	2	W
113584*	2002 <i>TT</i> ₄₅				HNW	115054	2003 <i>RR</i> ₆	4.972	0.21	2	W
113595	2002 <i>TH</i> ₅₀	3.461	0.29	2	W	115081*	2003 <i>SQ</i> ₃	2.85	0.26	3–	W
113601	2002 <i>TY</i> ₅₁	3.318	0.08	1	W	115111	2003 <i>ST</i> ₃₅	4.562	0.83	2	W
113606*	2002 <i>TO</i> ₅₃	5.422	0.49–0.51	2	W	115130	2003 <i>SV</i> ₅₂	3.497	0.45	2	W
113607	2002 <i>TQ</i> ₅₃	9.193	0.32	2	W	115152	2003 <i>SA</i> ₆₈	5.65	0.32	2	W
113637	2002 <i>TK</i> ₇₅	90.270	0.42	2	W	115161	2003 <i>SH</i> ₇₆	12.856	0.70	2	W
113698	2002 <i>TS</i> ₁₂₄	4.310	0.56	2	W	115220	2003 <i>ST</i> ₁₄₀	5.391	0.39	2	W
113708	2002 <i>TW</i> ₁₃₀	31.420	0.93	2	W	115222	2003 <i>SK</i> ₁₄₂	41.934	0.53	2	W
113724	2002 <i>TL</i> ₁₃₈	12.15	0.26	2	W	115233	2003 <i>SH</i> ₁₄₅	15.3	1.0	2	W
113759	2002 <i>TT</i> ₁₇₁	7.492	0.61	2	W	115358*	2003 <i>SY</i> ₂₄₉	4.85	0.43	2–	W
113765	2002 <i>TX</i> ₁₇₂	10.006	0.39	2	W	115359*	2003 <i>SA</i> ₂₅₀	5.33	0.67–1.2	3–	W
113781	2002 <i>TF</i> ₁₈₈	3.956	0.75	2	D	115400*	2003 <i>SJ</i> ₂₉₁	5.30	0.73	3–	W
113789	2002 <i>TZ</i> ₁₉₄	4.87	0.93	2	W	115406	2003 <i>SK</i> ₂₉₄	5.926	0.86	2	W
113792	2002 <i>TX</i> ₁₉₅	4.710	0.27	2	W	115407*	2003 <i>ST</i> ₂₉₄	7.01	0.44	2+	W
113808	2002 <i>TC</i> ₂₀₉	41.242	0.56	2	W	115409	2003 <i>SW</i> ₂₉₄	7.473	0.71	2	W
113816	2002 <i>TM</i> ₂₁₆	5.003	0.57	2	W	115421	2003 <i>SN</i> ₃₀₆	7.400	0.71	2	W
113846	2002 <i>TV</i> ₂₃₉	2.13	0.20	N		115453	2003 <i>TL</i> ₁₁	234.580	0.63	2	W
113886	2002 <i>TG</i> ₂₆₆	2.144	0.07	1	W	115464	2003 <i>TO</i> ₁₆	7.047	0.72	2	W
113887	2002 <i>TC</i> ₂₆₇	11.475	0.10	1	W	115501	2003 <i>UV</i> ₂₇	6.688	0.68	2	W
113916	2002 <i>TJ</i> ₂₈₄	10.674	0.10	1	W	115504	2003 <i>UH</i> ₂₉	10.11	0.59	2	W
113946*	2002 <i>TE</i> ₂₉₈	9.192	0.55–0.63	2	W	115554*	2003 <i>UL</i> ₇₄	8.11	0.40	1+	HW
113963	2002 <i>US</i> ₉	42.260	0.71	2	W	115555	2003 <i>UQ</i> ₇₅	7.243	0.54	2	W
113968	2002 <i>UO</i> ₁₃	3.799	0.34	2	W	115618	2003 <i>UH</i> ₁₁₄	86.336	0.72	2	W
113986	2002 <i>UF</i> ₂₆	9.996	0.47	2	W	115694*	2003 <i>UT</i> ₁₅₇	2.79	0.21	2–	W
114005	2002 <i>UQ</i> ₃₆	3.475	0.59	2	W	115758	2003 <i>UH</i> ₂₀₆	42.577	0.58	2	W
114028	2002 <i>VK</i> ₃	54.342	0.21	2	W	115761	2003 <i>UN</i> ₂₀₆	3.567	0.63	2	W
114034*	2002 <i>VO</i> ₈	3.163	0.47–0.53	2	W	115771	2003 <i>UW</i> ₂₀₈	9.733	0.24	2	W
114068	2002 <i>VT</i> ₂₉	4.555	0.51	2	W	115807	2003 <i>UJ</i> ₂₃₈	5.20	0.46	2–	W
114074	2002 <i>VF</i> ₃₃	3.93	0.23	2	W	115812	2003 <i>UD</i> ₂₄₃		0.63		W
114077	2002 <i>VM</i> ₃₃	4.480	0.10	1	W	115837	2003 <i>US</i> ₂₆₀	5.560	0.55	2	W
114083	2002 <i>VS</i> ₃₅	11.333	0.48	2	W	115887	2003 <i>VT</i> ₁	12.31	1.07	2	W
114085*	2002 <i>VW</i> ₃₅				HNW	115953	2003 <i>WJ</i> ₃₅	52.668	0.40	2	W
114086	2002 <i>VG</i> ₃₆	22.	0.75	2–	W	115978	2003 <i>WQ</i> ₅₆	2.872	0.10	2	W
114114	2002 <i>VD</i> ₄₈	3.766	0.48	2	W	116044*	2003 <i>WE</i> ₁₀₂	3.43	0.22	2	W
114122	2002 <i>VW</i> ₄₉	5.75	0.87	2	W	116133	2003 <i>WO</i> ₁₄₂	5.373	0.67	2	W
114127	2002 <i>VL</i> ₅₀	6.4	0.45	3–	W	116152*	2003 <i>WX</i> ₁₆₅	7.11	0.54	2	W
114132	2002 <i>VH</i> ₅₄	2.70	0.33	2	W	116183	2003 <i>XD</i> ₆	2.873	0.50	2	W
114134*	2002 <i>VX</i> ₅₅	2.90	0.33	2	W	116232	2003 <i>YW</i> ₅		0.29	2	W
114141*	2002 <i>VX</i> ₆₀	8.669	0.84	2	W	116254*	2003 <i>YR</i> ₂₆				HNW
114146	2002 <i>VT</i> ₆₂	7.626	1.11	2	W	116271*	2003 <i>YQ</i> ₃₅				HNW
114151	2002 <i>VD</i> ₆₅	7.796	0.57	2	W	116301	2003 <i>YZ</i> ₆₀	113.974	0.80	2	W
114174*	2002 <i>VN</i> ₇₅	3.86711			N	116313*	2003 <i>YT</i> ₆₅				HNW
114205*	2002 <i>VF</i> ₁₀₅	33.187	0.52	2	W	116401	2003 <i>YA</i> ₁₃₅	31.903	0.68	2	W
114232*	2002 <i>VV</i> ₁₂₃	8.18	0.92	1	DAW	116414	2003 <i>YF</i> ₁₄₁	9.088	0.52	2	W
114249	2002 <i>WO</i> ₁₁	3.339	0.18	2	W	116449	2004 <i>AU</i>	15.320	0.20–0.27	2	W
114276	2002 <i>XP</i> ₁₇	5.407	0.24	2	W	116457*	2004 <i>AL</i> ₅	3.10	0.40	3–	W
114297*	2002 <i>XC</i> ₃₂				HNW	116496	2004 <i>BH</i> ₁₆	7.662	0.71	2	W
114302*	2002 <i>XO</i> ₄₆	6.12	0.37	1	DAW	116503*	2004 <i>BN</i> ₂₃	11.818	0.67–0.68	2	W
114319	2002 <i>XD</i> ₅₈	2.9649	0.14		NB?	116524	2004 <i>BP</i> ₄₆	20.965	0.66	2	W
114332*	2002 <i>XX</i> ₆₄				HNW	116573	2004 <i>BZ</i> ₈₈	9.55	0.20	2–	W
114334	2002 <i>XW</i> ₆₅	134.374	0.54	2	W	116576	2004 <i>BA</i> ₉₁	4.796	0.75	2	W
114348*	2002 <i>XY</i> ₇₄	28.754	0.56–0.90	2	W	116588	2004 <i>BJ</i> ₉₈	5.61	0.70	2	W
114367	2002 <i>XA</i> ₈₉	4.8	0.14	2–	W	116591*	2004 <i>BT</i> ₁₀₂	2.82	0.21	1	W
114398*	2002 <i>YT</i> ₁₃	6.118	0.65–0.69	2	W	116652	2004 <i>CX</i> ₂₄	3.66	0.75	2	W
114419*	2002 <i>YQ</i> ₃₁	4.954	0.59–0.62	2	W	116653*	2004 <i>CJ</i> ₂₉	8.81	0.48–0.55	2	W
114439	2003 <i>AL</i> ₁₃	227.048	0.85	2	W	116729	2004 <i>DR</i> ₂₂	7.039	0.57	2	W
114460	2003 <i>AM</i> ₃₁	25.958	0.32	2	W	116770	2004 <i>ED</i> ₁₅	3.229	0.42	2	W
114508	2003 <i>AS</i> ₈₂	14.33	0.25	2	W	116796	2004 <i>EZ</i> ₄₈	4.460	0.61	2	W
114541	2003 <i>BP</i> ₂₅	362.325	0.77	2	W	116844	2004 <i>FR</i> ₄₈	27.434	0.09	1	W
114546*	2003 <i>BY</i> ₂₉	8.700	0.73–0.80	2	W	116858	2004 <i>FZ</i> ₈₄	9.134	0.79	2	W

MINOR PLANET LIGHTCURVE PARAMETERS

Planet	Period	Variation	Note	Planet	Period	Variation	Note
116944 2004 <i>GK</i> ₄₄	2.75	0.32	2 W	119187 2001 <i>QA</i> ₉₄	4.420	0.63	2 W
116964 2004 <i>HD</i> ₈	3.868	0.27	2 W	119200* 2001 <i>QV</i> ₁₂₄			HNW
116970* 2004 <i>HJ</i> ₁₅	11.6	0.72	2	119219* 2001 <i>QJ</i> ₂₁₁			HNW
116982 2004 <i>HU</i> ₃₀	6.184	0.99	2 W	119223 2001 <i>QB</i> ₂₂₀	5.838	0.54	2 W
116989 2004 <i>HW</i> ₄₂	56.595	0.70	2 W	119245 2001 <i>QD</i> ₂₉₃	4.8249	0.25	3
117213 2004 <i>RK</i> ₂₁₄	21.324	0.56	2 W	119320 2001 <i>SH</i> ₁₀₉	12.770	0.08	1 W
117233 2004 <i>SG</i> ₉	62.909	0.89	2 W	119341 2001 <i>SL</i> ₁₆₈	3.106	0.29	2 W
117247 2004 <i>SO</i> ₃₃	50.985	0.86	2 W	119403* 2001 <i>TU</i> ₆₂	8.672	0.25–0.30	2 W
117324 2004 <i>WW</i> ₄	30.256	0.71	2 W	119408* 2001 <i>TS</i> ₇₀			HNW
117335 2004 <i>XT</i> ₁₁	11.102	0.20	2 W	119409 2001 <i>TH</i> ₇₂	8.74	1.28	1+
117352* 2004 <i>XQ</i> ₆₉	6.53	0.72–0.86	2 W	119436 2001 <i>TL</i> ₁₃₅	2.871	0.09	1 W
117401 2005 <i>AL</i> ₈	8.21	0.34	2 W	119437* 2001 <i>TZ</i> ₁₃₆			HNW
117482* 2005 <i>CD</i> ₂			HNW	119502 2001 <i>UH</i> ₁₂₀	6.650	0.84	2 W
117526 2005 <i>CS</i> ₅₇	6.62	0.90	2 W	119511* 2001 <i>UX</i> ₁₃₄	4.90	0.67–0.86	3 W
117545* 2005 <i>EN</i> ₅	5.065	0.56–0.60	2 W	119553 2001 <i>VH</i> ₃₆	124.104	0.90	2 W
117599* 2005 <i>EL</i> ₆₉	7.11	0.87	2–	119560 2001 <i>VM</i> ₄₆	8.312	0.49	2 W
117605* 2005 <i>EF</i> ₈₆	6.540	0.27–0.95	2 W	119574 2001 <i>VT</i> ₉₀	2.9245	0.24	NA
117607 2005 <i>EZ</i> ₈₉	3.435	0.11	2 W	119651 2001 <i>XE</i> ₄₉	2.8458	0.39	N
117634 2005 <i>EJ</i> ₁₂₈	9.350	0.34	2 W	119655* 2001 <i>XV</i> ₅₅			HNW
117685 2005 <i>ED</i> ₂₄₇	70.	0.9	1+	119744* 2001 <i>YN</i> ₄₂	625.	0.52	2+ B?
117687* 2005 <i>EX</i> ₂₅₉	15.47	0.18	2	119745 2001 <i>YU</i> ₄₄	251.309	0.30	2 W
117813 2005 <i>HO</i> ₃	8.434	0.61	2 W	119761 2001 <i>YK</i> ₁₁₆	6.235	0.81	2 W
117873 2212 <i>P–L</i>	5.718	0.64	2 W	119764 2001 <i>YO</i> ₁₂₁	4.600	0.59	2 W
117919 4537 <i>P–L</i>	9.594	0.10	1 W	119769 2001 <i>YD</i> ₁₃₆	51.565	0.48	2 W
117922 4622 <i>P–L</i>	7.678	0.49	2 W	119936 2002 <i>GC</i> ₂₇	>16.	>0.9	2 W
117944* 6257 <i>P–L</i>	10.67	0.34	2–	119942 2002 <i>GJ</i> ₁₂₉	5.119	0.51	2 W
117970 9590 <i>P–L</i>	51.781	0.57	2 W	119951 2002 <i>KX</i> ₁₄		0.05	N
117982* 2134 <i>T–1</i>	6.86	0.60	1 DAW	119975 2002 <i>VB</i> ₁₂₈	33.867	0.68	2 W
118060* 4213 <i>T–2</i>	12.00	1.13	1 DAW	119979* 2002 <i>WC</i> ₁₉		<0.05	HNW
118066 4317 <i>T–2</i>	8.660	0.34	2 W	120019* 2003 <i>AF</i> ₃₉	6.266	0.45–0.55	2 W
118089 1093 <i>T–3</i>	77.984	0.90	2 W	120061 2003 <i>CO</i> ₁	10.0	0.07–0.10	2 DA
118092 1150 <i>T–3</i>	4.909	0.75	2 W	120071 2003 <i>DM</i> ₁₆	9.70	0.45	2 W
118111 2633 <i>T–3</i>	34.086	0.25	2 W	120088 2003 <i>EW</i> ₃₂	4.837	0.50	2 W
118212* 1995 <i>XM</i> ₄	12.00	0.37	1 W	120100 2003 <i>EY</i> ₅₇	11.638	0.68	2 W
118217 1996 <i>EO</i> ₇	5.571	0.85–0.87	2 W	120101 2003 <i>FP</i> ₅	5.400	0.52	2 W
118219 1996 <i>HT</i> ₂₀	4.82	0.16	2 W	120111 2003 <i>FN</i> ₃₈	7.742	0.80	2 W
118223 1996 <i>SO</i> ₄	10.121	0.41	2 W	120124 2003 <i>FO</i> ₉₈	3.614	0.35	2 W
118226* 1996 <i>TA</i> ₃₀	5.39	0.23	1+	120132* 2003 <i>FY</i> ₁₂₈	8.54	0.15	2– 1
118228 1996 <i>TQ</i> ₆₆		<0.22		120178 2003 <i>OP</i> ₃₂	9.71	0.13–0.20	2
118239 1997 <i>KX</i>	4.642	0.53	2 W	120207 2004 <i>EG</i> ₃₁	5.707	0.48	2 W
118264 1998 <i>FB</i> ₁₀₅	3.10	0.27	1+	120218 Richardberry	7.014	1.08	2 W
118267 1998 <i>HR</i> ₅₆	8.197	0.59	2 W	120279 2004 <i>HG</i> ₁₈	3.9	1.1	2–
118293 1998 <i>SV</i> ₆₂	16.235	0.29	2 W	120320 2004 <i>LL</i> ₁₇	10.042	0.85	2 W
118299 1998 <i>SD</i> ₁₄₈	6.625	0.45	2 W	120347* Salacia	6.09	0.03–0.06	2 1AB
118337 1999 <i>BQ</i> ₉	2.858	0.36	3	120348 2004 <i>TY</i> ₃₆₄	11.70	0.22	2+
118362 1999 <i>FS</i> ₁₇	6.188	0.12	2 W	120358* 2005 <i>MN</i> ₃₆			HNW
118400 1999 <i>RB</i> ₆₃	10.149	0.36	2 W	120375 Kugel	6.923	0.09	1 W
118405 1999 <i>RM</i> ₁₀₄	7.042	0.36	2 W	120480 1992 <i>RS</i> ₇	10.245	0.37	2 W
118417 1999 <i>TW</i> ₁₂	3.355	0.46	2 W	120506 1993 <i>TO</i> ₁	7.446	0.40	2 W
118423 1999 <i>TJ</i> ₈₄	24.859	0.77	2 W	120528 1994 <i>PD</i> ₁₂	94.322	0.86	2 W
118555 2000 <i>FH</i> ₄	6.96	0.76	2 W	120540 1994 <i>SK</i> ₁₃	78.268	0.81	2 W
118567 2000 <i>FQ</i> ₅₉	6.741	0.85	2 W	120556 1995 <i>CG</i> ₁₀	5.85	1.03	2 W
118594* 2000 <i>GZ</i> ₈₉	5.325	0.73–0.87	2 W	120559 1995 <i>EB</i> ₂	2.77	0.25	2 W
118612* 2000 <i>GU</i> ₁₄₃	8.909	0.57–0.72	2 W	120578 1995 <i>QV</i> ₁₂	72.4	0.51	2 T?
118625 2000 <i>HF</i> ₂₈	4.733	0.75	2 W	120586* 1995 <i>SE</i> ₂₅	3.69	0.49	2 W
118633* 2000 <i>HM</i> ₅₇	4.26	0.17	2	120635* 1996 <i>HE</i> ₁₆	5.03	0.61	2– W
118668 2000 <i>KS</i> ₄₃	2.544	0.07	1 W	120647 1996 <i>SZ</i> ₃	16.875	0.07	1 W
118733 2000 <i>QN</i> ₁₂₅	15.502	0.28	2 W	120672* 1997 <i>AK</i>			HNW
118756 2000 <i>QK</i> ₂₀₀	11.16	0.38	2 W	120678* 1997 <i>BB</i> ₄			HNW
118787 2000 <i>RA</i> ₉₉	9.019	0.55	2 W	120681* 1997 <i>BB</i> ₆	2.87	0.36	2 W
118795* 2000 <i>SO</i> ₂₉			HNW	120768 1998 <i>BM</i> ₂₉	17.222	0.65	2 W
118805 2000 <i>SB</i> ₅₆	7.854	0.75	2 W	120783 1998 <i>EN</i> ₁₉	6.616	0.97	2 W
118826 2000 <i>SV</i> ₁₅₄	17.6	0.36	2–	120785* 1998 <i>FT</i> ₃	4.590	0.41–0.50	2 W
118850 2000 <i>SL</i> ₂₅₇	5.979	0.59	2 W	120815 1998 <i>HB</i> ₄₂	2.25	0.35	2 W
118873* 2000 <i>TY</i> ₁₄	3.126	0.39–0.40	2 W	120915* 1998 <i>SX</i> ₈₁	7.32	0.66	1 DAW
118903 2000 <i>US</i> ₇₂	3.846	0.09	1 W	120928 1998 <i>SP</i> ₁₀₉	10.7	0.5	1+ A
118918 2000 <i>VY</i> ₂₆	5.907	0.47	2 W	120960 1998 <i>VC</i> ₃	6.36	0.91	2 W
118920 2000 <i>VH</i> ₃₁	60.279	0.44	2 W	120961* 1998 <i>VJ</i> ₄	5.82	0.45	2 W
118938 2000 <i>WM</i> ₄₇	7.575	0.38	2 W	121005* 1998 <i>YF</i> ₃₁	17.12	0.64	2 W
118943 2000 <i>WF</i> ₆₇	6.	0.29	1	121017 1999 <i>BG</i> ₄	9.23	0.78	2 W
118956 2000 <i>WA</i> ₁₀₃	4.045	0.47	2 W	121052 1999 <i>CP</i> ₅₁	6.910	0.10	1 W
118965 2000 <i>WA</i> ₁₃₈	3.655	0.30	2 W	121073 1999 <i>EL</i> ₁₂	>24.	>0.20	1 W
118995 2000 <i>YH</i> ₃₄	7.413	0.78	2 W	121103 Ericneilsen	17.181	0.47	2 W
119067 2001 <i>KP</i> ₇₆			HB	121107 1999 <i>GF</i> ₅	27.342	0.70	2 W
119110 2001 <i>OT</i> ₇₀	8.252	0.88	2 W	121145 1999 <i>JT</i> ₅₉	16.158	0.43	2 W
119128* 2001 <i>OY</i> ₁₀₁			HNW	121192 1999 <i>NC</i> ₂₂	11.16	0.38	2 W
119160* 2001 <i>QT</i> ₂₃			HNW	121197 1999 <i>NN</i> ₃₃	4.739	0.37	2 W
119173 2001 <i>QL</i> ₄₉	11.29	0.29	2 W	121269 1999 <i>RK</i> ₁₀₈	3.299	0.37	2 W
119175 2001 <i>QU</i> ₅₃	108.479	0.71	2 W	121293 1999 <i>RL</i> ₁₈₂	539.627	0.52	2 W
119184* 2001 <i>QK</i> ₈₇	3.412	0.20–0.21	2 W	121306 1999 <i>RQ</i> ₂₀₇	4.365	0.47	2 W

MINOR PLANET LIGHTCURVE PARAMETERS

Planet	Period	Variation	Note	Planet	Period	Variation	Note
121342 1999 <i>TV</i> ₁₉	14.545	0.09	1 W	123430 2000 <i>WX</i> ₁₁₅	6.499	0.68	2 W
121368* 1999 <i>TP</i> ₆₉	7.96	0.83	1 DAW	123481 2000 <i>WV</i> ₁₆₂	10.083	0.42	2 W
121433 1999 <i>TL</i> ₁₇₅	5.153	0.54	2 W	123507 2000 <i>WP</i> ₁₈₂	10.427	1.03	2 W
121436 1999 <i>TZ</i> ₁₈₂	6.354	0.36	2 W	123509* 2000 <i>WK</i> ₁₈₃			HNB
121460 1999 <i>TW</i> ₂₀₇	8.887	0.59	2 W	123553 2000 <i>XN</i> ₂₉	7.142	0.69	2 W
121494 1999 <i>TE</i> ₂₆₇	4.899	0.34	2 W	123567 2000 <i>XV</i> ₃₅	14.212	0.15	2 W
121512 1999 <i>TR</i> ₃₂₂	10.534	0.53	2 W	123569 2000 <i>XC</i> ₃₆	15.452	0.63	2 W
121529 1999 <i>UY</i> ₃₃	7.174	0.58	2 W	123573 2000 <i>XG</i> ₃₇	61.343	0.38	2 W
121532* 1999 <i>UD</i> ₄₀	2.350	0.41	2 W	123582 2000 <i>XQ</i> ₄₀	5.783	0.70	2 W
121534 1999 <i>UJ</i> ₄₁	114.523	0.57	2 W	123596 2000 <i>XX</i> ₅₁	14.015	0.74	2 W
121573 1999 <i>VZ</i> ₈₇	6.851	0.59	2 W	123678 2000 <i>YP</i> ₉₁	9.201	0.56	2 W
121588* 1999 <i>VL</i> ₁₀₅	10.79	0.28	2- W	123710 2000 <i>YQ</i> ₁₂₀	4.874	0.40	2 W
121608* Mikemoreau	24.797	0.44	2 W	123713 2000 <i>YU</i> ₁₂₂	11.868	0.09	1 W
121624 1999 <i>VN</i> ₁₇₃	21.086	0.40	2 W	123723 2000 <i>YD</i> ₁₃₅	4.352	0.19	2 W
121638 1999 <i>VK</i> ₂₁₆	5.392	0.61	2 W	123754* 2001 <i>AR</i> ₃₂	101.427	0.66-0.90	2 W
121650 1999 <i>WR</i> ₁₈	8.314	0.77	2 W	123871 2001 <i>DM</i> ₂₂	10.054	0.52	2 W
121712 1999 <i>XS</i> ₁₁₃	6.098	0.59	2 W	123928 2001 <i>ED</i> ₆	3.692	0.37	2 W
121716* Victorsank	9.616	0.21	2 W	123936 2001 <i>EA</i> ₁₅	4.468	0.54	2 W
121772* 2000 <i>AA</i> ₂₀	4.64	0.35	2 W	123937 2001 <i>EX</i> ₁₆	39.82	0.07	2 T0
121884* 2000 <i>DA</i> ₃	9.41	0.31	1+ W	124032 2001 <i>FN</i> ₁₂₆	192.327	0.85	2 W
121913 2000 <i>DN</i> ₆₈	5.20	0.64	2- W	124116* 2001 <i>JS</i> ₆	2.53	0.54	2 W
121958* 2000 <i>EP</i> ₅₈	4.366	0.33-0.34	2 W	124135 2001 <i>LS</i>	3.6217	0.17	NA
121987 2000 <i>EU</i> ₁₈₈	10.31	0.47	2 W	124139 2001 <i>LL</i> ₁₂	43.123	0.86	2 W
121997 2000 <i>FX</i> ₄₁	8.801	0.16	2 W	124174 2001 <i>OR</i> ₂₄	8.171	0.63	2 W
122007* 2000 <i>GC</i> ₇	118.154	0.68-0.74	2 W	124200 2001 <i>OM</i> ₈₁	9.50	0.43	2 W
122011 2000 <i>GL</i> ₂₈	3.95	0.08	2- W	124252 2001 <i>QA</i> ₄	7.452	0.71	2 W
122129* 2000 <i>JX</i> ₂₁			HNW	124260* 2001 <i>QK</i> ₁₂	2.749	0.32-0.45	2 W
122139* 2000 <i>JF</i> ₃₉	6.964	0.60-0.66	2 W	124295 2001 <i>QF</i> ₅₆	43.516	0.72	2 W
122154 2000 <i>JS</i> ₅₉	3.53	0.29	2 W	124297 2001 <i>QE</i> ₅₇	5.78	0.77	2 W
122209* 2000 <i>MY</i> ₂			HNW	124347 2001 <i>QP</i> ₁₁₉	6.249	0.70	2 W
122210 2000 <i>NL</i> ₃	15.402	0.41	2 W	124374* 2001 <i>QU</i> ₁₅₂	9.7	0.53-0.60	2 W
122223 2000 <i>NM</i> ₂₂	4.082	0.12	2 W	124393 2001 <i>QM</i> ₁₈₆	3.89	0.57	2 W
122247 2000 <i>OM</i> ₂₇	7.172	0.63	2 W	124432 2001 <i>QJ</i> ₂₄₇	15.48	0.69	2 W
122279 2000 <i>PE</i> ₇	91.842	0.50	2 W	124435* 2001 <i>QS</i> ₂₄₇	4.640	0.43-0.46	2 W
122350* 2000 <i>QB</i> ₄₂	7.314	0.34-0.35	2 W	124497 2001 <i>RF</i> ₄₅	7.252	0.21	2 W
122377 2000 <i>QU</i> ₆₅	5.600	0.77	2 W	124525* 2001 <i>RE</i> ₈₁	3.753	0.25-0.36	2 W
122415* 2000 <i>QF</i> ₉₄	5.942	0.45-0.47	2 W	124548 2001 <i>RT</i> ₁₂₆	6.498	0.25	2 W
122417 2000 <i>QG</i> ₉₆	5.583	0.42	2 W	124575 2001 <i>SJ</i> ₁₂	6.81	0.86	2 W
122419 2000 <i>QB</i> ₉₉	35.728	0.80	2 W	124579* 2001 <i>SF</i> ₁₅			HNW
122460 2000 <i>QB</i> ₁₄₆	55.079	0.47	2 W	124620 2001 <i>SS</i> ₅₀	126.484	0.39	2 W
122463* 2000 <i>QP</i> ₁₄₈	426.	1.13	2 T0	124627* 2001 <i>SF</i> ₆₀	9.296	0.56-0.71	2 W
122477* 2000 <i>QO</i> ₁₆₅	6.36	0.62	2 W	124630* 2001 <i>SM</i> ₆₂	3.31	0.27	2 W
122524 2000 <i>QW</i> ₂₀₈	2.96	0.11	1 W	124643 2001 <i>SQ</i> ₆₈	5.646	0.87	2 W
122536 2000 <i>QY</i> ₂₁₆	6.880	0.72	2 W	124660 2001 <i>SW</i> ₈₀	4.623	0.56	2 W
122561* 2000 <i>RP</i> ₂	3.50	0.19-0.20	2 W	124764 2001 <i>SE</i> ₂₃₅	5.558	0.74	2 W
122570 2000 <i>RG</i> ₁₂	5.211	0.71	2 W	124766 2001 <i>SV</i> ₂₃₉	48.592	0.59	2 W
122603 2000 <i>RM</i> ₄₀	4.40	0.22	2 W	124811 2001 <i>ST</i> ₂₈₂	9.307	0.79	2 W
122639 2000 <i>RN</i> ₈₂	5.088	0.27	2 W	124814* 2001 <i>SF</i> ₂₈₅	3.45	0.21	2 W
122678 2000 <i>RK</i> ₁₀₄	32.212	0.51	2 W	124834 2001 <i>TH</i>	5.526	0.76	2 W
122698 2000 <i>SW</i> ₁₆	7.440	0.72	2 W	124856 2001 <i>TS</i> ₂₂	2.71	0.49	2 W
122699 2000 <i>SX</i> ₁₉	8.338	0.68	2 W	124866* 2001 <i>TM</i> ₃₀	5.11	0.70-0.83	2 W
122702* 2000 <i>SV</i> ₂₄	6.91	0.39-0.56	2 W	124873 2001 <i>TG</i> ₃₅	5.256	0.62	2 W
122733 2000 <i>SK</i> ₄₇	346.903	0.26	2 W	124934 2001 <i>TA</i> ₇₆	4.92	0.69	2 W
122735 2000 <i>SW</i> ₄₉	10.00	0.32	2 W	124935* 2001 <i>TQ</i> ₇₆	4.250	0.48-0.61	2 W
122743 2000 <i>SR</i> ₅₄	6.738	0.49	2 W	124965 2001 <i>TF</i> ₁₀₄	4.955	0.73	2 W
122764 2000 <i>SX</i> ₆₉	4.9	0.55	2 W	124966* 2001 <i>TH</i> ₁₀₅	5.50	0.30-0.43	2 W
122783 2000 <i>SY</i> ₈₅	6.23	0.90	2 W	124982 2001 <i>TC</i> ₁₃₀	16.	>0.05	1 W
122837 2000 <i>SO</i> ₁₁₉	4.351	0.19	2 W	125001 2001 <i>TG</i> ₁₅₄	5.571	0.42	2 W
122897* 2000 <i>SO</i> ₁₅₆	7.72	0.50	1 DAW	125083 2001 <i>UM</i> ₁₂	5.03	0.35	2 W
122934 2000 <i>SS</i> ₁₈₅	2.641	0.45	2 W	125091* 2001 <i>UX</i> ₂₄	4.45	0.73-0.78	2+ W
122943* 2000 <i>SZ</i> ₁₉₂	3.61	0.26	2 W	125136 2001 <i>UY</i> ₆₁	2.94565	0.23	NA
122975* 2000 <i>SE</i> ₂₃₀	4.738	0.88-1.07	2 W	125310 2001 <i>VN</i> ₃₂	6.15	1.26	2 W
123005* 2000 <i>SZ</i> ₂₅₈			HNW	125314* 2001 <i>VW</i> ₃₄	4.266	0.48-0.52	2 W
123034 2000 <i>SG</i> ₂₈₈	15.070	0.14	2 W	125324 2001 <i>VY</i> ₄₁	47.434	0.22	2 W
123054 2000 <i>SH</i> ₂₉₈	8.38	0.37	2 W	125336 2001 <i>VA</i> ₄₉	26.220	0.06	1 W
123104 2000 <i>SV</i> ₃₄₈	351.909	0.42	2 W	125390 2001 <i>VZ</i> ₈₄	9.14	0.53	2 W
123107 2000 <i>SF</i> ₃₅₀	5.350	0.58	2 W	125397 2001 <i>VD</i> ₉₈	3.683	0.21	2 W
123144* 2000 <i>TY</i> ₁₉	6.91	0.23	2 W	125435* 2001 <i>VM</i> ₁₁₅	26.67	0.60	1 W
123150 2000 <i>TJ</i> ₃₂	4.25	0.93	2+ W	125539 2001 <i>WN</i> ₉₀	8.07	0.21	2 W
123184 2000 <i>UQ</i> ₆	146.441	0.66	2 W	125540 2001 <i>WO</i> ₉₀	11.071	0.51	2 W
123191* 2000 <i>UT</i> ₁₄	3.69	0.83	2- W	125579 2001 <i>XT</i> ₂₄	2.92	0.17	2 W
123219* 2000 <i>UC</i> ₄₁			HNW	125598 2001 <i>XF</i> ₄₅	9.072	0.13	2 W
123241 2000 <i>UL</i> ₆₀	3.04	0.42	2 W	125604 2001 <i>XJ</i> ₄₈	10.029	0.15	2 W
123263 2000 <i>UO</i> ₇₈	13.889	0.45	2 W	125617 2001 <i>XX</i> ₅₄	>6.	>0.54	N
123267 2000 <i>UK</i> ₈₂	9.048	0.66	2 W	125662 2001 <i>XN</i> ₇₃	4.062	0.74	2 W
123329 2000 <i>VC</i> ₃₁	4.575	0.08	1 W	125668* 2001 <i>XL</i> ₇₇	8.65	0.97	2 W
123336 2000 <i>VD</i> ₄₅	55.978	0.63	2 W	125703 2001 <i>XY</i> ₉₆	6.173	0.55	2 W
123353* 2000 <i>WV</i> ₄			HNW	125738 2001 <i>XE</i> ₁₁₆	4.09	0.19	2 W
123404* 2000 <i>WS</i> ₈₈	15.60	0.26	1 DAW	125742* 2001 <i>XT</i> ₁₁₇	60.8	0.9 -1.40	3 T?
123423 2000 <i>WV</i> ₁₀₇	2.839	0.28	2 W	125746 2001 <i>XJ</i> ₁₁₉	5.728	0.59	2 W

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Planet	Period	Variation	Note	Planet	Period	Variation	Note
125776* 2001 XX ₁₄₀	6.32	0.73	2 W	128693 2004 RZ ₉₂	126.449	0.93	2 W
125779 2001 XL ₁₄₅	11.251	0.28	NA	128799 2004 RS ₂₂₅	7.89	0.93	2 W
125784* 2001 XZ ₁₄₇	13.52	0.97	2- W	128847* 2004 SM ₁₁			HNW
125788* 2001 XH ₁₅₁	5.55	0.95	2 W	128890 2004 SH ₅₉	7.543	0.70	2 W
125793 2001 XC ₁₅₃	5.11	0.63	2 W	128891* 2004 SP ₅₉	9.913	0.43-0.65	2 W
125828* 2001 XT ₁₇₄	5.872	0.42-0.54	2 W	128906 2004 TR ₃₄	247.047	0.58	2 W
125922 2001 XR ₂₃₄	5.1	0.71	N	128921 2004 TT ₆₆	3.696	0.33	2 W
125925* 2001 XE ₂₃₇			HNW	129000* 2004 TO ₂₄₇	3.623	0.45-0.49	2 W
125927* 2001 XD ₂₃₈			HNW	129038 2004 UY ₄	3.362	0.46	2 W
125979* 2001 YU ₂₁	5.29	0.67	2+	129079* 2004 VZ ₇₀	3.209	0.52-0.53	2 W
126043 2001 YE ₇₁	7.221	0.08	1 W	129100* Aaronammons	6.8	0.71-1.20	3- W
126074 2001 YE ₈₅	2.4	0.16	1+	129127 2004 XA ₁₆₇	2.071	0.09	1 W
126093* 2001 YU ₁₀₁			HNW	129135 2005 AD ₂₁		1.41	I
126117 2001 YW ₁₁₃		1.15	W	129140 2005 AO ₅₀	9.384	0.32	2 W
126154* 2001 YH ₁₄₀	13.25	0.19-0.21	2- W	129152 Jayst pierre	3.39	0.30	2 W
126174* 2002 AA ₁₀			HNW	129158 Michaelmellman	9.791	0.74	2 W
126179* 2002 AY ₁₃	11.16	0.50	1 DAW	129221 2005 OC ₄	10.276	0.78	2 W
126236* 2002 AC ₅₉	9.733	0.70-0.72	2 W	129236 2005 PS ₁₉	3.58	0.21	2 W
126242* 2002 AX ₆₂			HNW	129261 2005 QM ₈₇	12.814	0.65	2 W
126311 2002 AT ₁₂₃	4.92	0.52	2 W	129334 2005 UN ₆₈	5.16	0.49	2 W
126334* 2002 AW ₁₅₂	3.51	0.35-0.47	2 W	129371* 6266 P-L			HNW
126340 2002 AU ₁₅₇	75.127	0.54	2 W	129404 5021 T-2	29.069	0.77	2 W
126361* 2002 AA ₁₇₉	10.84	0.70	1 DAW	129442 1981 EC ₁₅	15.67	0.27	2 W
126363 2002 AR ₁₈₂	3.458	0.09	1 W	129489 1994 TN ₅	91.092	0.59	2 W
126406* 2002 BG ₁₆	4.485	0.60-0.68	2 W	129501 1995 HJ ₅	5.106	0.52	2 W
126419 2002 BH ₂₉	6.827	0.18	2 W	129539 1996 NO ₁	4.595	0.86	2 W
126483* 2002 CC ₅₁			HNW	129602* 1997 WA ₁₂	43.010	0.28-0.36	2+ HW
126488 2002 CD ₅₅		0.88	W	129690* 1998 SF ₁₆	7.38	0.58	2 W
126491 2002 CC ₅₆	2.57	0.17	2 W	129691 1998 SH ₁₆	17.1	0.50	2- W
126498* 2002 CK ₆₁			HNW	129717* 1998 TT ₃₄	2.51	0.26	2 W
126505* 2002 CA ₆₄	2.989	0.35-0.41	2 W	129816* 1999 NC ₂₃	4.47	0.46	2 W
126551* 2002 CM ₉₈	5.65	0.53	2 W	129952 1999 TW ₂₂₀	17.109	0.07	1 W
126606 2002 CS ₁₄₁	25.038	0.87	2 W	129989 1999 VS ₅	6.408	0.20	2- W
126656* 2002 CY ₂₀₂			HNW	129997 1999 VH ₂₈	8.8	0.1	1 W
126763* 2002 DN ₁₁			HNW	130007* Frankteti	7.017	0.51	2 W
126788 2002 EH ₁₉	2.62	0.13	2 W	130190 2000 AG ₉₀		1.13	I
126792* 2002 EK ₂₁	3.62	0.72	2 W	130236 2000 CX ₂₄	26.606	0.49	2 W
126801* 2002 EC ₂₉			HNW	130254* 2000 DJ ₁₄	18.038	0.63-0.64	2 W
126884 2002 ET ₉₈	24.584	0.81	2 W	130311 2000 EW ₁₀₅	6.669	0.56	2 W
126912 2002 EQ ₁₂₂	5.815	0.54	2 W	130335* 2000 FZ ₂₆	6.636	0.54-0.56	2 W
126915 2002 EV ₁₂₅	7.630	0.10	1 W	130362 2000 GY ₈₇	14.049	1.07	2 W
126935* 2002 EN ₁₄₆	6.03	0.55-0.58	2+ W	130374 2000 GB ₁₆₄	6.598	0.09	1 W
126944 2002 FN ₁	2.252	0.13	1+ W	130403* 2000 OZ ₁₃	5.152	0.62-0.80	2 W
127021 2002 GP ₁₆	8.761	0.38	2 W	130413 2000 OO ₄₇	15.445	0.23	2 W
127028* 2002 GA ₂₃			HNW	130422* 2000 PZ ₁₅	3.779	0.29-0.44	2 W
127054* 2002 GD ₄₇	3.20	0.42	2 W	130485 2000 QN ₁₀₃	4.85	0.61	2 W
127093* 2002 GL ₈₁	18.11	0.70	2 W	130532* 2000 QB ₂₀₂			HNW
127114* 2002 GC ₉₈			HNW	130535 2000 QU ₂₀₇	13.240	0.36	2 W
127123 2002 GE ₁₀₂	18.875	0.46	2 W	130583* 2000 RS ₇₅	5.468	0.15-0.22	2 W
127136* 2002 GB ₁₁₀	7.06	0.92	2 W	130623 2000 SP ₄₁	4.505	0.52	2 W
127148* 2002 GT ₁₂₃	7.50	0.68	2 W	130682 2000 SM ₁₂₂	5.046	0.59	2 W
127172 2002 GF ₁₅₄	5.097	0.64	2 W	130723* 2000 SO ₂₁₆	14.88	0.75	1 DAW
127189* 2002 GL ₁₇₂	5.75	0.41	2 W	130753 2000 SA ₂₇₅	53.595	0.67	2 W
127284* 2002 JF ₇₀	3.95	0.59	2 W	130782 2000 TH ₆	6.6	0.98	2 W
127288* 2002 JV ₇₄	10.30	0.33	2+ W	130809 2000 UJ ₅	170.928	0.71	2 W
127311* 2002 JV ₉₀	2.82	0.3 -0.36	2 W	130820 2000 UH ₁₇	12.980	0.70	2 W
127532 2002 WH ₉	long		1 W	130925 2000 WY ₁₇	5.250	0.66	2 W
127599 2003 BE ₁₈		0.89	W	130982 2000 WH ₁₃₀	92.099	1.21	2 W
127638 2003 CE ₈	7.127	0.94	2 W	130989 2000 WL ₁₄₂	15.164	0.89	2 W
127656* 2003 DV ₈			HNW	131002 2000 WP ₁₈₈	4.938	0.31	2 W
127693 2003 EG ₂₀	5.39	1.00	2 W	131007 2000 XL ₈	5.621	0.21	2 W
127749 2003 FS ₁₆	6.203	0.26	2 W	131021 2000 XR ₃₃	26.234	0.58	2 W
127817 2003 FK ₉₈	8.332	0.58	2 W	131029* 2000 XV ₄₂	5.961	0.54-0.58	2 W
127876* 2003 GN ₂	3.38	0.43	2 W	131048 2000 YM ₃₈	11.43	0.83	2 W
127955 2003 HY ₁₃	2.31	0.73	2 W	131076 2000 YC ₁₀₃	5.1	0.10	1+ W
127993 2003 HU ₄₈	2.916	0.35	2 W	131128 2001 BX ₃₁	2.85	0.15	2 W
128014 2003 JR ₁₀	16.294	0.72	2 W	131140 2001 BV ₅₂	13.595	0.39	2 W
128018 2003 JA ₁₄	8.083	0.36	NA	131220* 2001 DN ₇₈			HNW
128046* 2003 MY ₁	8.312	0.81-0.89	2 W	131282 2001 FW ₉₃	5.884	0.50	2 W
128081 2003 OO ₂₁	>18.	>0.15	1 W	131309 2001 FH ₁₅₈	30.2	0.28	2- W
128209 2003 SS ₆₅	18.46	0.49	2 W	131336 2001 HP ₃₅	13.185	0.35	2 W
128248* 2003 SD ₂₁₆	6.91	0.27	2 W	131365 2001 KN ₁₁	41.632	0.41	2 W
128314 Coraliejackman	6.412	0.65	2 W	131381 2001 KU ₃₉	227.405	0.77	2 W
128343 Brianpage	2.4776	0.25	NA	131394 2001 KC ₆₀	6.67	0.50	2 W
128394 2004 LG ₃	21.826	0.37	2 W	131406 2001 LB ₁₂	5.250	0.40	2 W
128543 2004 PO ₆₇	50.182	0.33	2 W	131427 2001 OW ₉₈	3.517	0.34	2 W
128603 2004 QP ₁₃	2.530	0.25	2 W	131477* 2001 RN ₉₃	6.32	0.59	2 W
128646 2004 RT ₃₆	11.273	0.56	2 W	131517 2001 TN ₁₂₀	8.747	0.61	2 W
128648 2004 RT ₄₂	287.501	0.51	2 W	131594* 2001 VL ₉₉	6.40	0.85	2 W
128691 2004 RL ₈₉	5.132	0.72	2 W	131656 2001 XL ₁₁₄	41.430	0.60	2 W

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Planet	Period	Variation	Note	Planet	Period	Variation	Note
131663* 2001 XE ₁₅₀	4.78	0.99	2 W	134553 1999 RK ₁₆₅	151.406	0.45	2 W
131694 2001 XZ ₂₃₉	2.593	0.08	1 W	134554 1999 RE ₁₆₉	4.117	0.40	2 W
131702 2001 YZ ₃	4.92	0.10	2-	134555 1999 RN ₁₆₉	122.389	0.29	2 W
131777 2002 AE ₂₁	4.872	0.55	2 W	134585 1999 TN ₅₆	7.942	0.88	2 W
131868* 2002 AW ₁₅₄			HNW	134597* 1999 TE ₁₂₈	4.618	0.94-1.15	2 W
131994 2002 CH ₉₅	9.119	0.42	2 W	134598 1999 TQ ₁₄₇	5.944	0.65	2 W
132067* 2002 CQ ₁₄₇			HNW	134607 1999 TK ₁₉₇	3.500	0.64	2 W
132083 2002 CG ₁₆₇	10.688	0.65	2 W	134650 1999 VS ₂₉	5.205	0.79	2 W
132114 2002 CE ₂₂₄	5.672	0.8	3-	134659* 1999 VX ₈₈	4.59	0.29	2 W
132115* 2002 CL ₂₂₅	6.00	0.94	2 W	134661* 1999 VT ₁₁₂	6.36	0.63	2 W
132216 2002 EU ₆₃	98.029	0.88	2 W	134669* 1999 VC ₁₈₆	5.118	0.63-0.87	2 W
132237 2002 EL ₇₉	18.621	0.32	2 W	134683 1999 XO ₂₈	13.265	0.42	2 W
132327 2002 GA ₂₄	3.90	0.52	2 W	134696 1999 XZ ₉₆	109.101	0.44	2 W
132351* 2002 GT ₅₂	5.65	0.64-0.81	2 W	134699 1999 XX ₁₁₈	4.659	0.41	2 W
132367 2002 GG ₆₈	8.948	0.59	2 W	134702 1999 XQ ₁₂₅	3.840	0.28	2 W
132394 2002 GW ₉₆	7.38	0.47	2 W	134704 1999 XS ₁₅₆	87.027	0.26	2 W
132435 2002 GL ₁₆₄	8.28	0.48	2 W	134752* 2000 BQ ₃₅	9.441	0.62-0.75	2 W
132561* 2002 JV ₉₃	5.538	0.48-0.60	2 W	134775 2000 DT ₃₄	12.47	0.56	2 W
132597 2002 JM ₁₄₁	7.10	0.26	2-	134818 2000 GH ₁₈	9.405	0.08	1 W
132598 2002 JG ₁₄₂	10.237	0.92	2 W	134832 2000 HT ₆₁	2.576	0.07	1 W
132636 2002 LC ₃₃	4.968	0.50	2 W	134860 2000 OJ ₆₇			HB
132676 2002 NR ₁₄	7.11	0.60	2 W	134873 2000 QR ₈₉	8.889	0.48	2 W
132699* 2002 NY ₄₃	6.100	0.38-0.56	2 W	134882 2000 RH ₃₁	6.262	0.08	1 W
132712 2002 OY ₁₄	5.104	0.80	2 W	134896 2000 WH ₁₃	4.27	0.55	2 W
132718* Kemény	5.89	0.79	2 W	134965 2001 DQ ₉₉	10.596	0.43	2 W
132752* 2002 PK ₄₉	6.08	0.25	2 W	134969 2001 EL ₁	11.510	0.70	2 W
132809* 2002 QO ₃₀	10.55	0.59	2 W	135029 2001 MC ₈	9.785	0.56	2 W
132830* 2002 RQ ₇	5.908	0.37-0.40	2 W	135039 2001 OA ₂	4.2057	0.20	1+
132868* 2002 RO ₉₅	15.835	0.78	2 W	135098* 2001 QE ₇₈	6.799	0.43-0.50	2 W
132871 2002 RW ₁₀₅	3.784	0.42	2 W	135126 2001 QX ₁₅₈	3.595	0.52	2 W
132893 2002 RY ₁₈₄	12.670	0.59	2 W	135146* 2001 QJ ₂₁₂	4.400	0.49-0.50	2 W
132915* 2002 SV ₂₇	7.618	0.71-1.01	2 W	135147* 2001 QS ₂₁₇	5.93	0.28	2 W
132919 2002 SX ₃₄	3.112	0.24	2 W	135150* 2001 QC ₂₁₈	10.619	0.56-0.67	2 W
132953 2002 TM ₈₃	54.685	0.48	2 W	135164 2001 QH ₂₄₈	4.035	0.23	2 W
132982 2002 TX ₁₉₂	3.366	0.33	2 W	135208* 2001 RF ₆₈	3.62	0.28-0.30	2 W
133003 2002 TM ₂₈₉	4.016	0.48	2 W	135222* 2001 RS ₁₀₃	14.890	0.68-0.75	2 W
133037 2002 AB ₃	15.29	0.25	2+	135223* 2001 RK ₁₀₉	7.964	0.70-0.78	2 W
133074* Kenshamordola	24.94	0.60	1 DAW	135240 2001 SJ ₁₀	6.53	0.92	2 W
133151 2003 QQ ₂₀	12.073	0.81	2 W	135250 2001 SY ₃₃	3.32	0.19	2 W
133227* 2003 QW ₉₄	21.691	0.21-0.24	2 W	135274 2001 SH ₁₂₆	5.68	0.25	2 W
133306 2003 SB ₄₉	5.130	0.44	2 W	135283* 2001 SU ₁₄₃	4.80	0.23	2 W
133307* 2003 SZ ₅₁	4.29	0.30	2 W	135288* 2001 SF ₁₅₄			HNW
133315 2003 SE ₇₆	9.415	0.37	2 W	135316 2001 SN ₂₇₇	6.36	0.28	2 W
133324 2003 SY ₉₀	11.3	0.80	3-	135354* 2001 TA ₇₇	7.285	0.55-0.57	2 W
133372* 2003 SR ₁₄₅	18.970	0.52-0.53	2 W	135361* 2001 TW ₁₁₈	5.540	0.25-0.35	2 W
133440* 2003 SK ₂₁₃	6.00	0.26	2 W	135365 2001 TS ₁₂₃	15.960	0.52	2 W
133442* 2003 SV ₂₁₃	10.32	0.34	2 W	135378* 2001 TG ₁₄₈	9.603	0.61-0.64	2 W
133489 2003 SE ₂₆₈	3.90	0.35	2 W	135391* 2001 TM ₁₉₆	6.623	0.46-0.47	2 W
133528* Ceragioli	3.052	0.35-0.35	2 W	135401* 2001 TQ ₂₁₃	6.834	0.39-0.41	2 W
133630 2003 UM ₁₃₆	5.9	0.25	2 W	135405 2001 TF ₂₂₆		0.66	W
133635 2003 UN ₁₄₃	2.645	0.11	2 W	135421 2001 UC ₄₉	128.346	0.61	2 W
133693* 2003 UC ₂₂₀	3.54	0.31	2 W	135439 2001 UG ₁₇₉	11.448	0.31	2 W
133695 2003 UF ₂₂₃	6.474	0.49	2 W	135445 2001 VW ₁₃	17.490	0.62	2 W
133701 2003 UD ₂₃₀	2.74	0.37	2 W	135452* 2001 VF ₂₆	20.475	0.41-0.42	2 W
133752 2003 WE ₂₃	5.55	0.64	2 W	135456 2001 VA ₅₁	8.050	1.06	2 W
133839* 2003 YH ₄₈	8.65	0.57	2 W	135486 2001 XP ₂	69.	1.2	2-
133857 2004 AB ₁	10.358	0.40	2 W	135508 2001 XU ₂₂₆	17.750	0.57	2 W
133862 2004 BR ₃₈	4.414	0.06	1	135532 2002 CR ₁₂	8.991	0.38	2 W
133896 2004 RT ₃₅	7.272	0.90	2 W	135559* 2002 FE ₃	6.76	0.96	2 W
134052 2004 XL ₂₇	67.960	0.85	2 W	135576* 2002 GS ₅₆	7.22	1.13	2 W
134121 2004 YE ₃₀	9.32	0.75	2 W	135649* 2002 KQ ₁₂	4.85	1.11	2 W
134222* 2005 WN ₁₈₈	4.38	0.30	2 W	135683 2002 OW ₃	3.661	0.26	2 W
134293* 2006 DX ₃₇	13.104	0.41-0.42	2 W	135691 2002 SJ ₂₀	5.867	0.08	1 W
134340 Pluto	153.2935	0.11-0.30	3 M	135797 2002 RA ₁₀₁	12.09	0.10	1 W
134342* 1979 MV ₃	4.71	1.00	2 W	135885 2002 TX ₄₉	5.3	0.33	2
134377* 1995 SF ₄₀			HNW	135927 2002 TH ₁₈₀	4.755	0.49	2 W
134407* 1998 BV ₉	7.090	0.47-0.54	2 W	136017 2002 VH ₇₄	4.3	0.35	2-
134422 1998 QM ₃	25.4	0.65	2+	136061 2002 XK ₇₅	5.681	0.20	2-
134459 1998 SS ₁₃₁	2.829	0.29	2 W	136081 2003 AH ₅₇	16.239	0.45	2 W
134468 1998 UX ₈	3.467	0.76	2 W	136108 Haumea	3.9154	0.05-0.32	3 B
134481 1998 VJ ₅₄	4.941	0.81	2 W	136146* 2003 SA ₂₉₄			HNW
134483* 1998 WK ₂	9.50	0.54	1 DAW	136159* 2003 UE ₁₅	6.204	0.86-1.00	2 W
134494 1998 XV ₆₇	27.513	0.58	2 W	136164 2003 UO ₄₇	6.779	0.61	2 W
134502 1999 CW ₈₁	10.434	0.09	1 W	136173 2003 UU ₁₂₉	9.398	0.25	2 W
134507 1999 CR ₁₄₂	4.23	0.27	2	136174* 2003 UJ ₁₃₂	3.68	0.77	2 W
134526 1999 RX ₂₂	19.043	0.10	1 W	136175 2003 UV ₁₃₂	7.654	0.69	2 W
134527 1999 RY ₃₀	80.	>0.6	1 W	136184 2003 UV ₂₀₉	3.821	0.23	2 W
134540 1999 RZ ₉₁	7.899	0.52	2 W	136199* Eris	25.9	0.10	2 B
134548 1999 RY ₁₅₀	9.546	0.55	2 W	136204 2003 WL ₇	8.24	0.05	2-
134549 1999 RN ₁₅₄	124.	0.55	2- T?	136206 2003 WN ₁₉	86.811	0.09	1 W

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Planet	Period	Variation	Note	Planet	Period	Variation	Note
136209 2003 <i>WF</i> ₂₀	4.802	0.07	1 W	137924* 2000 <i>BD</i> ₁₉	10.570	0.67–0.69	3–
136216 2003 <i>WK</i> ₇₁	7.717	0.52	2 W	137925 2000 <i>BJ</i> ₁₉	48.	0.17	2 A
136217 2003 <i>WK</i> ₇₂	10.206	0.07	1 W	137936* 2000 <i>BB</i> ₃₄			HNW
136220 2003 <i>WO</i> ₇₈	5.565	0.62	2 W	137942 2000 <i>BB</i> ₄₇	6.274	0.55	2 W
136240 2003 <i>WY</i> ₁₄₃	6.754	0.72	2 W	137966 2000 <i>CZ</i> ₂₄	17.462	0.56	2 W
136251* 2003 <i>XD</i> ₁₉	3.22	0.66	2 W	137982 2000 <i>CR</i> ₅₃	4.278	0.62	2 W
136259 2003 <i>YH</i> ₄₅	14.296	0.63	2 W	137987 2000 <i>CN</i> ₆₁	40.	0.3	1+
136297* 2004 <i>BN</i> ₉	3.43	0.78	2 W	138095 2000 <i>DK</i> ₇₉	4.243	0.17	3
136302 2004 <i>BL</i> ₁₉	6.564	0.54	2 W	138100* 2000 <i>DU</i> ₈₄	2.95	0.31	2 W
136317 2004 <i>BO</i> ₅₇	55.803	0.56	2 W	138108 2000 <i>DC</i> ₁₀₂	8.97	0.48	2 W
136360 2004 <i>DO</i> ₁₉	8.00	0.10	1 W	138121* 2000 <i>EK</i> ₈			HNW
136381* 2004 <i>FU</i> ₄₄	6.27	0.55	2 W	138127 2000 <i>EE</i> ₁₄	2.586	0.26	3
136406 2005 <i>AR</i> ₃₂	8.643	0.58	2 W	138152* 2000 <i>EO</i> ₆₈	4.92	1.00	2 W
136465 2005 <i>EA</i> ₂₆₆	12.783	0.72	2 W	138167 2000 <i>EP</i> ₉₉	15.22	0.80	2 W
136472* Makemake	22.48	0.01–0.03	2– AB	138215 2000 <i>EJ</i> ₁₈₁	5.756	0.51	2 W
136576* 1981 <i>EN</i> ₃₃			HNW	138227 2000 <i>FK</i> ₁₆	3.401	0.69	2 W
136578 1981 <i>EL</i> ₄₅	5.223	0.41	2 W	138238 2000 <i>FQ</i> ₃₀	5.150	0.09	1 W
136617 1994 <i>CC</i>	2.38860	0.09	3– RM	138256* 2000 <i>FR</i> ₆₉	12.05	0.6	–0.63
136623 1994 <i>PS</i> ₆	7.644	0.30	2 W	138261 2000 <i>GR</i> ₄	3.558	0.20	2–
136624* 1994 <i>PD</i> ₁₄	15.493	0.49–0.56	2 W	138325* 2000 <i>GO</i> ₈₂	6.122	0.17	2 A
136725 1995 <i>UP</i> ₄₀	9.959	0.56	2 W	138347 2000 <i>GB</i> ₁₁₄	76.715	0.76	2 W
136734 1995 <i>VF</i> ₆	21.966	0.40	2 W	138352 2000 <i>GC</i> ₁₁₆	7.909	0.62	2 W
136785 1996 <i>XC</i> ₂	37.614	0.72	2 W	138401 2000 <i>HB</i> ₁₃	5.905	0.78	2 W
136786 1996 <i>XX</i> ₄	17.313	0.88	2 W	138405* 2000 <i>HV</i> ₂₄	7.064	0.74	2 AW
136796 1997 <i>BO</i> ₆	9.308	0.34	2 W	138467 2000 <i>JL</i> ₄₄	6.52	0.63	2 W
136805 1997 <i>EM</i> ₃₀	4.766	0.35	2 W	138491 2000 <i>KE</i> ₂₇	6.010	0.19	2 W
136807* 1997 <i>EQ</i> ₃₈			HNW	138503 2000 <i>KC</i> ₅₈	6.86	0.20	2 W
136849 1998 <i>CS</i> ₁	2.765	0.13–0.16	3	138522 2000 <i>NW</i> ₁₉	10.80	0.20	3–
136865* 1998 <i>FE</i> ₄₁	4.348	0.55–0.66	2 W	138524 2000 <i>OJ</i> ₈	2.6835	0.06	2 A
136897 1998 <i>HJ</i> ₄₁	15.3	0.54	2	138544 2000 <i>QY</i> ₉	5.77	0.72	2 W
136940 1998 <i>QG</i> ₄₅	127.521	0.51	2 W	138579 2000 <i>QA</i> ₁₃₂	8.97	0.60	2 W
136949 1998 <i>QE</i> ₁₁₀	5.082	0.67	2 W	138585 2000 <i>QG</i> ₁₄₀	5.5287	1.00	3 W
136992 1998 <i>SL</i> ₄₅	119.	0.3	1+	138636 2000 <i>RJ</i> ₁₈	8.845	0.87	2 W
136993 1998 <i>ST</i> ₄₉	2.3017	0.11–0.15	3 RB	138666 2000 <i>RX</i> ₉₆	8.6824	0.80–0.88	3
137033* 1998 <i>UO</i> ₁	2.925	0.04–0.16	2	138691 2000 <i>SP</i> ₅₇	199.100	0.49	2 W
137041 1998 <i>UG</i> ₄₃	5.876	0.74	2 W	138699* 2000 <i>SL</i> ₇₇	5.089	0.23–0.26	2 W
137051 1998 <i>VA</i> ₂₇	10.532	1.00	2 W	138824 2000 <i>UK</i> ₂₈	3.754	0.28	2 W
137052* Tjelvar	9.02	0.19	2+	138847* 2000 <i>VE</i> ₆₂	6.469	0.36	3–
137065 1998 <i>WH</i> ₆	136.942	0.80	2 W	138852 2000 <i>WN</i> ₁₀	4.4622	0.38–0.44	3
137071 1998 <i>WD</i> ₂₉	6.170	0.66	2 W	138861 2000 <i>WO</i> ₈₇	5.260	0.49	2 W
137076 1998 <i>XK</i> ₃	19.645	0.20	2 W	138870 2000 <i>XP</i> ₁₆	5.775	0.77	2 W
137084 1998 <i>XS</i> ₁₆	5.419	1.18–1.3	3	138876 2000 <i>XA</i> ₄₅	8.574	0.47	2 W
137092 1998 <i>XX</i> ₆₈	4.819	0.08	1 W	138877 2000 <i>XG</i> ₄₇	8.71	0.15–0.6	N
137170* 1999 <i>HF</i> ₁	2.3192	0.12–0.26	3 B	138883 2000 <i>YL</i> ₂₉	10.60	0.20	2
137184 1999 <i>JG</i> ₆₃	4.868	0.58	2 W	138893 2000 <i>YH</i> ₆₆	5.30	0.70	3–
137199 1999 <i>KX</i> ₄	2.767	0.12–0.30	3	138971 2001 <i>CB</i> ₂₁	3.3020	0.19	2 A
137206* 1999 <i>LJ</i> ₂₅			HNW	139016* 2001 <i>DU</i> ₅₈	5.842	0.62–0.68	2 W
137213 1999 <i>NX</i> ₁₀	42.548	0.08	1 W	139043* 2001 <i>ER</i> ₆			HNW
137228 1999 <i>RT</i> ₂₀	7.6	0.66	2 W	139056 2001 <i>FY</i>	5.207	0.40	2
137280 1999 <i>RQ</i> ₁₇₈	62.323	0.86	2 W	139146 2001 <i>FW</i> ₉₂	37.093	0.84	2 W
137283 1999 <i>RQ</i> ₁₈₂	4.594	0.33	2 W	139188* 2001 <i>FO</i> ₁₄₉			HNW
137305 1999 <i>SO</i> ₁₄	5.414	0.71	2 W	139191* 2001 <i>GC</i> ₁₅₂	9.031	0.34–0.35	2 W
137353 1999 <i>TW</i> ₁₀₄	4.148	0.60	2 W	139201 2001 <i>FC</i> ₁₆₆	7.719	0.87	2 W
137359 1999 <i>TS</i> ₁₁₃	5.437	0.56	2 W	139216 2001 <i>GB</i> ₁₀	6.151	0.29	2+
137366 1999 <i>TV</i> ₁₂₀	5.522	0.27	2 W	139296 2001 <i>KD</i> ₇	8.709	0.27	2 W
137381 1999 <i>TQ</i> ₁₄₉	14.930	0.60	2 W	139312 2001 <i>KO</i> ₂₃	4.003	0.49	2 W
137391 1999 <i>TF</i> ₁₅₈	59.939	0.08	1 W	139317 2001 <i>KY</i> ₂₅	31.366	0.48	2 W
137411* 1999 <i>TS</i> ₁₈₈			HNW	139345 2001 <i>KA</i> ₆₇	6.10	0.2	N
137451 1999 <i>TD</i> ₂₈₀	10.07	0.17	1 W	139515 2001 <i>PD</i> ₅₃	8.3	0.63	2+
137463* 1999 <i>TT</i> ₃₂₀			HNW	139537 2001 <i>QE</i> ₂₅	45.	0.1	2–
137464 1999 <i>TV</i> ₃₂₀	13.813	0.35	2 W	139728 2001 <i>QE</i> ₂₅₀	8.8		N
137468* 1999 <i>UT</i> ₁₁	3.33	0.25–0.27	2 W	139765 2001 <i>QN</i> ₂₈₈	17.498	0.68	2 W
137504 1999 <i>VO</i> ₂₁	2.538	0.09	1 W	139775* 2001 <i>QG</i> ₂₉₈	13.7744	1.14	3 B?
137524 1999 <i>VM</i> ₄₉	15.346	0.34	2 W	139800 2001 <i>RV</i> ₁₂	5.126	0.45	2 W
137581 1999 <i>VV</i> ₁₃₇	>18.	>0.25	1 W	139842 2001 <i>RV</i> ₄₃	2.82	0.33	2 W
137598 1999 <i>VA</i> ₁₆₄	9.24	0.1	1 W	139867 2001 <i>RB</i> ₆₈	87.993	0.84	2 W
137605 1999 <i>VK</i> ₁₇₄	28.0	0.40	2 W	139878* 2001 <i>RT</i> ₈₄	16.052	0.54–0.75	2 W
137632 Ramsauer	5.263	0.10	1+	139888* 2001 <i>RC</i> ₈₉	8.87	0.50–0.52	3–
137680 1999 <i>XW</i> ₄₅	7.617	0.60	2 W	139938 2001 <i>RQ</i> ₁₃₄	5.40	0.55	2 W
137689* 1999 <i>XB</i> ₆₀	13.52	0.52	1+	140008* 2001 <i>SS</i> ₄₃			HNW
137712 1999 <i>XU</i> ₉₆	5.93	0.48	2 W	140036 2001 <i>SB</i> ₇₁	6.237	0.78	2 W
137718 1999 <i>XA</i> ₁₀₂	8.489	0.08	1 W	140037 2001 <i>SA</i> ₇₂	4.9630	0.75	3 W
137726 1999 <i>XL</i> ₁₁₅	13.103	0.77	2 W	140040* 2001 <i>SA</i> ₇₆	5.680	0.69–0.96	2 W
137736 1999 <i>XX</i> ₁₂₅	67.796	0.60	2 W	140041 2001 <i>SZ</i> ₇₇	2.910	0.20	1 W
137774 1999 <i>XP</i> ₂₁₇	5.349	0.53	2 W	140062* 2001 <i>SU</i> ₁₀₃			HNW
137777 1999 <i>XN</i> ₂₁₈	7.000	0.76	2 W	140121 2001 <i>SR</i> ₁₃₉	19.32	0.22	1 W
137799 1999 <i>YB</i>	9.39	0.31	2+	140141 2001 <i>SE</i> ₁₅₅	8.91	0.10	1+
137805 1999 <i>YK</i> ₅	9.930	0.13–0.38	3–	140170 2001 <i>SL</i> ₁₈₂	7.334	0.56	2 W
137845 2000 <i>AT</i> ₃₇	10.062	0.83	2 W	140190 2001 <i>SJ</i> ₂₁₄	4.32	0.47	2 W
137857 2000 <i>AT</i> ₅₉	4.732	0.45	2 W	140220* 2001 <i>SH</i> ₂₃₈	10.689	0.52–0.55	2 W

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Planet	Period	Variation	Note	Planet	Period	Variation	Note
140246 2001 <i>SR</i> ₂₅₂	17.770	0.63	2 W	143081 2002 <i>XC</i> ₅	9.14	0.60	2 W
140251* 2001 <i>SN</i> ₂₅₅	6.66	0.73–1.00	3– W	143087 2002 <i>XP</i> ₉	12.29	0.28	2 W
140288 2001 <i>SN</i> ₂₈₉	6.58	0.34	2	143089 2002 <i>XZ</i> ₉	76.088	0.50	2 W
140376 2001 <i>TE</i> ₃₇	6.859	0.45	2 W	143103 2002 <i>XK</i> ₂₁	6.208	0.36	2 W
140381 2001 <i>TR</i> ₄₆	15.46	0.22	2+	143114 2002 <i>XK</i> ₂₆	3.731	0.21	2 W
140391 2001 <i>TQ</i> ₅₅	5.084	0.07	1 W	143116 2002 <i>XT</i> ₂₇	130.095	0.32	2 W
140428 2001 <i>TT</i> ₉₄	2.5	0.46	2–	143127 2002 <i>XW</i> ₃₂	5.824	0.54	2 W
140432 2001 <i>TC</i> ₁₀₂	26.002	0.34	2 W	143134 2002 <i>XS</i> ₃₇	32.910	0.89	2 W
140437 2001 <i>TC</i> ₁₀₆	4.493	0.66	2 W	143156 2002 <i>XC</i> ₅₁	3.855	0.80	2 W
140442 2001 <i>TF</i> ₁₁₄	7.137	0.79	2 W	143181 2002 <i>XU</i> ₇₅	4.822	0.68	2 W
140453 2001 <i>TN</i> ₁₂₃	5.16	0.36	2 W	143186 2002 <i>XP</i> ₇₈	3.085	0.09	1 W
140497* 2001 <i>TX</i> ₁₅₃			HNW	143205 2002 <i>XQ</i> ₉₂	6.49	0.55	2 W
140546* 2001 <i>TZ</i> ₁₉₄	5.798	0.47–0.48	2 W	143243 2002 <i>YA</i> ₂₆	7.688	0.28	3
140645* 2001 <i>UO</i> ₂₆	3.17	0.28	2 W	143264 2003 <i>AW</i> ₉	4.25	0.23	2 W
140879 2001 <i>VE</i> ₂₀	17.722	0.30	2 W	143300 2003 <i>AD</i> ₃₉	20.483	0.10	1 W
140923 2001 <i>VX</i> ₆₆	22.300	0.82	2 W	143308 2003 <i>AQ</i> ₄₁	5.471	0.74	2 W
140924* 2001 <i>VU</i> ₆₇	6.370	0.44–0.55	2 W	143332 2003 <i>AD</i> ₆₆	5.527	0.81	2 W
140951 2001 <i>VZ</i> ₉₉	9.964	0.35	2 W	143409 2003 <i>BQ</i> ₄₆	10.531	1.14	3
140964 2001 <i>VM</i> ₁₀₈	3.17	0.65	2 W	143423 2003 <i>BL</i> ₅₆	3.102	0.53	2 W
141018 2001 <i>WC</i> ₄₇	16.51	0.18	2 TO	143437 2003 <i>BY</i> ₆₆	5.42	0.46	2 W
141052 2001 <i>XR</i> ₁	7.66	0.88	2+	143439 2003 <i>BM</i> ₆₇	6.534	0.68	2 W
141061 2001 <i>XN</i> ₉	5.019	0.30	2 W	143468 2003 <i>CP</i> ₃	7.339	0.69	2 W
141162* 2001 <i>XL</i> ₁₂₇	8.533	0.83–1.03	2 W	143489 2003 <i>DS</i>	3.30	0.33	1 W
141215* 2001 <i>XO</i> ₂₁₉	9.83	0.34	2+	143490* 2003 <i>DL</i> ₃	4.265	0.41–0.56	2 W
141240 2001 <i>XQ</i> ₂₅₂	>24.	>0.15		143615 2003 <i>GK</i> ₄	18.038	0.34	2 W
141258 2001 <i>YL</i> ₂₀	6.68	0.10	1+ W	143624 2003 <i>HM</i> ₁₆	32.1	0.50	2
141309 2001 <i>YP</i> ₁₂₀	9.811	0.82	2 W	143649 2003 <i>QO</i> ₄₇	3.679	0.19	2–
141354* 2002 <i>AJ</i> ₂₉	19.76	0.55	2+	143651 2003 <i>QO</i> ₁₀₄	114.4	1.20–1.60	3 T?
141432 2002 <i>CQ</i> ₁₁	2.605	0.11–0.20	2+	143678 2003 <i>SA</i> ₂₂₄	35.	>0.24	NATO
141443 2002 <i>CX</i> ₄₂	19.248	0.38	2 W	143719 2003 <i>UU</i> ₁₇₇	146.258	0.56	2 W
141486 2002 <i>DZ</i> ₁₀	11.788	0.40	2 W	143730 2003 <i>UJ</i> ₂₁₁	34.765	0.80	2 W
141495 2002 <i>EZ</i> ₁₁	2.3270	0.06–0.15	3–	143794 2003 <i>WY</i> ₁₀₄	11.374	0.44	2 W
141527 2002 <i>FG</i> ₇	6.306	0.97	3	143805 2003 <i>WZ</i> ₁₂₂	8.4		N
141557 2002 <i>GY</i> ₆₉		1.6	I	143818 2003 <i>WF</i> ₁₃₈	5.250	0.75	2 W
141593 2002 <i>HK</i> ₁₂	12.690	1.5	N	143915 2003 <i>YC</i> ₇₉	6.994	0.43	2 W
141619* 2002 <i>JH</i> ₂₆	5.419	0.68–0.81	2 W	143917 2003 <i>YN</i> ₇₉	5.199	0.12	1+ W
141627 2002 <i>JM</i> ₃₇	14.241	0.88	2 W	143946 2003 <i>YB</i> ₁₁₇	7.695	0.53	2 W
141635 2002 <i>JV</i> ₅₁	30.166	0.50	2 W	143950 2003 <i>YR</i> ₁₂₀	17.105	0.62	2 W
141639* 2002 <i>JB</i> ₅₅			HNW	143985 2003 <i>YT</i> ₁₅₃	10.019	0.55	2 W
141641 2002 <i>JZ</i> ₅₅	3.691	0.18	1 W	144033 2004 <i>BO</i> ₂₂	4.368	0.43	2 W
141841 2002 <i>OD</i> ₂₁	6.288	0.35	2 W	144034 2004 <i>BM</i> ₂₃	8.544	0.27	2 W
141844* 2002 <i>OL</i> ₂₂			HNW	144039* 2004 <i>BL</i> ₂₅	2.11	0.20	2 W
141849 2002 <i>PC</i>	2.295	0.10	1 W	144054 2004 <i>BM</i> ₃₄	10.605	0.79	2 W
141850 2002 <i>PY</i> ₄	10.442	0.35	2 W	144067* 2004 <i>BP</i> ₄₄	5.49	1.19	2 W
141887 2002 <i>PR</i> ₅₃	5.878	0.80	2 W	144082 2004 <i>BP</i> ₅₁	2.46	0.26	2 W
141917 2002 <i>PK</i> ₈₂	10.762	0.64	2 W	144093* 2004 <i>BZ</i> ₅₆	5.652	0.94–1.05	3 W
141977 2002 <i>PZ</i> ₁₂₇	19.59	0.10	1 W	144106* 2004 <i>BW</i> ₇₀	6.08	0.35	2 W
142040* 2002 <i>QE</i> ₁₅	3.884	0.10–0.19	2	144135 2004 <i>BE</i> ₉₀	8.839	0.60	2 W
142061 2002 <i>QP</i> ₃₁	62.558	0.89	2 W	144145 2004 <i>BT</i> ₉₃	10.474	0.33	2 W
142135 2002 <i>RY</i> ₁₄	46.	0.23	1 W	144147 2004 <i>BE</i> ₉₄	6.923	0.88	2 W
142250 2002 <i>RO</i> ₁₀₂	53.874	0.59	2 W	144159 2004 <i>BH</i> ₁₀₀	6.96	0.42	2 W
142260 2002 <i>RL</i> ₁₀₇	3.105	0.50	2 W	144206 2004 <i>CB</i> ₉	26.130	0.78	2 W
142278 2002 <i>RY</i> ₁₂₀	7.47	0.20	2 W	144237 2004 <i>CA</i> ₇₃	12.792	0.52	2 W
142348 2002 <i>TX</i> ₂₁₁	5.0689	0.22–0.41	3	144333 Marcinkiewicz	15.18	0.20	2–
142503* 2002 <i>TT</i> ₃₄			HNW	144410 2004 <i>EF</i> ₉	8.25	0.30	1 W
142516 2002 <i>TD</i> ₄₀	9.294	0.10	1 W	144411 2004 <i>EW</i> ₉	49.94	0.9 –1.9	3 T–
142519 2002 <i>TJ</i> ₄₁	2.3280	0.20	3– W	144543 2004 <i>EV</i> ₉₄		0.84	W
142530 2002 <i>TL</i> ₄₇	4.390	0.90	2 W	144564 2004 <i>FE</i> ₁₃	138.112	0.87	2 W
142541 2002 <i>TR</i> ₅₁	5.737	0.74	2 W	144569 2004 <i>FO</i> ₁₄	3.50	0.22	2 W
142548* 2002 <i>TG</i> ₅₃			HNW	144637 2004 <i>FS</i> ₉₀	6.622	0.39	2 W
142567 2002 <i>TQ</i> ₇₈	61.	0.6	1+ W	144881 2004 <i>RM</i> ₉₉	187.592	0.67	2 W
142628 2002 <i>TL</i> ₁₇₁	4.780	0.72	2 W	144896* 2004 <i>TT</i> ₃₀₈	4.30	0.94	2 W
142631 2002 <i>TX</i> ₁₇₅	4.444	0.53	2 W	144897 2004 <i>UX</i> ₁₀	5.68	0.08–0.10	2
142659 2002 <i>TH</i> ₂₀₆	14.7	0.20	2– W	144898 2004 <i>VD</i> ₁₇	1.99	0.21	2
142686 2002 <i>TJ</i> ₂₃₅	25.842	0.55	2 W	144901 2004 <i>WG</i> ₁	8.06	0.65	2–
142716 2002 <i>TU</i> ₂₆₆	4.011	0.08	1 W	144919 2005 <i>BA</i> ₂₇	5.164	0.49	2 W
142723* 2002 <i>TW</i> ₂₇₉			HNW	144922 2005 <i>CK</i> ₃₈	4.7894	0.27	3
142733 2002 <i>TO</i> ₂₈₆	5.098	0.69	2 W	144952 2005 <i>EC</i> ₃₈	7.634	0.55	2 W
142746 2002 <i>TS</i> ₂₉₄	5.218	0.91	2 W	144972 2005 <i>EM</i> ₁₁₉	64.306	0.72	2 W
142755* Castander			HNW	144974 2005 <i>EH</i> ₁₂₅	246.672	0.73	2 W
142781 2002 <i>UM</i> ₁₁	6.81	0.03	1 A	144977* 2005 <i>EC</i> ₁₂₇	1.64	0.50	2– W
142806 2002 <i>UJ</i> ₂₉	14.440	0.66	2 W	144997 2005 <i>EH</i> ₁₉₆	6.192	0.52	2 W
142814* 2002 <i>UR</i> ₃₈			HNW	145003 2005 <i>EZ</i> ₂₀₅	5.224	0.54	2 W
142830 2002 <i>VG</i> ₁₁	4.816	0.49	2 W	145092 2005 <i>GR</i> ₆₆	20.051	0.70	2 W
142913 2002 <i>VN</i> ₅₅	5.014	0.60	2 W	145105* 2005 <i>GW</i> ₁₀₁	6.23	0.53	2 W
142942 2002 <i>VG</i> ₆₉	3.000	0.18	2– W	145127* 2005 <i>GL</i> ₁₄₇	2.93	0.43	1 W
142996 2002 <i>VZ</i> ₉₅	7.161	0.20	2 W	145137 2005 <i>GW</i> ₁₆₂	6.353	0.38	2 W
143008 2002 <i>VQ</i> ₁₀₃	3.091	0.40	2 W	145324* 2005 <i>LE</i> ₂₅	8.81	0.87	2 W
143033 2002 <i>VN</i> ₁₂₁	15.703	0.63	2 W	145376 2005 <i>NA</i> ₆	7.307	0.38	2 W
143035 2002 <i>VS</i> ₁₂₁	131.223	0.76	2 W	145410* 2005 <i>NN</i> ₈₇	3.06	0.19	2 W

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Planet				Planet			
Planet	Period	Variation	Note	Planet	Period	Variation	Note
145440 2005 QU ₁₄₃	11.724	0.60	2 W	147887 2006 RY ₂₆	4.6566	0.80	3 W
145443 2005 QR ₁₆₅	30.547	0.49	2 W	147928 2006 VW ₁₃₇	44.973	0.62	2 W
145451 2005 RM ₄₃	6.71	0.04–0.05	2 1	147937* 1038 T–2	5.356	0.52–0.58	2 W
145452 2005 RN ₄₃	6.95	0.04–0.06	2 1A	147946 4084 T–3	13.404	0.56	2 W
145453* 2005 RR ₄₃	7.87	0.06	2– 1	148043 1998 SF ₂₅	3.610	0.40	2 W
145480 2005 TB ₁₉₀	12.68	0.12	2 1	148062* 1998 UB ₅			HNW
145482 2005 UD ₁₃₀	4.138	0.43	2 W	148107 1999 RR ₁₄₄	4.704	0.53	2 W
145486 2005 UJ ₄₃₈	8.32	0.13	2– A	148120 1999 TK ₈₅	36.452	0.96	2 W
145509 2006 DX ₆₅	4.882	0.53	2 W	148150 1999 XK ₇₉	4.106	0.60	2 W
145534 Jhongda	4.49	0.67	2 W	148189* 2000 BE ₂₂	2.57	0.37	1 W
145553 2006 LN ₅	103.342	0.56	2 W	148200* 2000 CH ₆₉			HNW
145620 2006 QE ₉₄	5.23	0.82	2 W	148203 2000 CW ₈₈	4.803	0.74	2 W
145635 2585 P–L	6.905	0.25	3 W	148208 2000 CD ₁₀₁	6.91	0.24	2 W
145646* 4170 P–L	2.27	0.17	1+ W	148264 2000 FS ₃₄	4.665	0.53	2 W
145647 4193 P–L	13.926	0.17	2 W	148428 2000 WV ₁₆₀	4.191	0.26	2 W
145658 6596 P–L	9.124	0.61	2 W	148467* 2001 BF ₆₈			HNW
145710 1989 SF ₃	16.347	0.40	2 W	148509 2001 ON ₅₈	16.55	0.69	2 W
145727 1994 PL ₂₉	1084.883	0.06	1 W	148539 2001 QH ₁₀₂	5.45	0.41	2 W
145745* 1995 UT ₁₃			HNW	148552 2001 QR ₁₅₉	3.357	0.50	2 W
145789* 1998 QJ ₃₁			HNW	148554 2001 QR ₁₆₃	17.665	0.56	2 W
145811* 1998 ST ₁₀₄	4.506	0.63–0.72	2 W	148558 2001 QQ ₁₉₄	3.752	0.40	2 W
145814 1998 SD ₁₄₀	7.698	0.30	2 W	148679 2001 SB ₂₁₅	19.383	0.45	2 W
145898* 1999 TT ₁₉₂	6.570	0.25–0.28	2 W	148740 2001 TS ₁₁₅	92.743	0.42	2 W
145939* 1999 XF ₆₁	3.68	0.24–0.30	2 W	148763* 2001 TK ₂₂₅	7.80	1.03	2 W
145946* 1999 XL ₁₅₁			HNW	148780 Altjira		<0.3	B
145970 2000 AA ₃₄	6.271	0.89	2 W	148844 2001 VA ₂₂	3.1961	0.5	N
145982 2000 AG ₁₆₁	4.636	0.42	2 W	148985* 2001 YF ₄₃	8.60	0.36	1 DAW
145986* 2000 AF ₂₂₅			HNW	149106 2002 CD ₂₀₆	261.164	0.87	2 W
146010 2000 CN ₇₈	7.16	0.93	2 W	149114 2002 CX ₂₅₉	4.196	0.69	2 W
146021* 2000 DB ₄			HNW	149135 2002 EX ₇₀	50.555	0.36	2 W
146047* 2000 EC ₁₇	11.475	0.71–0.73	2 W	149155 2002 FF ₁₂	>9.	>0.15	1
146049 2000 EK ₃₀	3.743	0.40	2 W	149182 2002 JX ₆₉	2.8950	0.30	NA
146078* 2000 GT ₁₆₉	2.23	0.37	2 W	149187* 2002 JQ ₁₂₀			HNW
146094 2000 KD ₈₃	66.196	0.58	2 W	149199* 2002 PH ₃₇	5.13	0.58–0.73	2 W
146130 2000 RG ₉₃	5.086	0.60	2 W	149201 2002 PC ₄₄	5.588	0.10	1 W
146134 2000 SE ₁	21.762	0.71	2 W	149259 2002 TQ ₂₉	11.50	1.10	3 W
146217* 2000 VX ₅₀	6.81211		N	149265 2002 TH ₅₃	4.02	0.31	2 W
146247 2000 XU ₂₃	5.226	0.69	2 W	149347 2002 VN ₁₂₇	5.324	0.64	2 W
146322 2001 LM ₁₇	3.213	0.56	2 W	149379 2002 XE ₉₉	8.449	0.73	2 W
146345 2001 OJ ₇₃	4.983	0.55	2 W	149385* 2002 YS ₂₃	3.316	0.28–0.29	2 W
146354 2001 OK ₁₀₆	5.859	0.67	2 W	149405 2003 AD ₅₇	2.97	0.28	2 W
146451* 2001 RP ₂₆			HNW	149445 2003 CQ ₅	8.274	0.67	2 W
146467 2001 RX ₆₃	3.232	0.06	1 W	149449 2003 CE ₁₀	5.493	0.15	2 W
146477 2001 RG ₁₀₃	9.076	0.31	2 W	149517 2003 FF ₇₄	6.901	0.75	2 W
146487* 2001 RQ ₁₅₁	3.79	1.18	3– W	149612 2004 EO ₇	109.313	0.80	2 W
146579 2001 TF ₈₈	6.956	0.77	2 W	149686* 2004 GB ₃₅	>72.	>1.	HNW
146630 2001 UU ₂₃	9.386	0.68	2 W	149853* 2005 QX ₂₆			HNW
146631 2001 UJ ₃₄	8.814	0.75	2 W	149868 2005 QH ₉₅	11.43	0.68	2 W
146716* 2001 WA ₅₁	5.65	1.20	2+ W	149896 2005 SD ₁	5.311	0.87	2 W
146717 2001 WU ₆₂	28.627	0.57	2 W	149913 2005 SU ₇₃	4.25	0.38	2 W
146732* 2001 XH ₅₁			HNW	149931* 2005 SY ₁₅₅			HNW
146828 2001 YL ₁₅₅	4.062	0.77	2 W	150028 2005 VH ₃₃	66.402	0.92	2 W
146870 2002 AT ₁₈₁	8.670	0.76	2 W	150080 2006 UV ₉	4.728	0.63	2 W
146883 2002 CF ₂₄	5.158	0.45	2 W	150103 4262 T–3	6.708	0.32	2 W
146918 2002 CT ₂₂₅	115.657	0.83	2 W	150140 1995 YF ₆	17.230	0.18	2 W
146965 2002 JS ₁₁₆	7.488	0.71	2 W	150215* 1998 SP ₁₁₁	3.763	0.51–0.53	2 W
146975 2002 NF ₂₆	111.340	0.09	1 W	150261 1999 RC ₆₈	6.630	0.33	2 W
147024 2002 RW ₇	2.565	0.22	2 W	150266 1999 RZ ₁₃₇	5.298	0.30	2 W
147037 2002 RZ ₅₁	4.234	0.40	2 W	150273 1999 RA ₂₃₃	19.018	0.47	2 W
147041 2002 RE ₆₅		0.61	W	150324* 1999 VM ₁₀₇			HNW
147088 2002 SQ ₅₀	7.193	0.22	2 W	150370* 2000 CG ₆₅	16.6	0.54–0.76	2
147201 2002 VL ₁₁₃	7.471	0.33	2 W	150383 2000 DX ₅₀	3.12	0.43	2 W
147213* 2002 WX ₁₃			HNW	150398 2000 EC ₅₉	8.36	0.35	1+ W
147241* 2002 XW ₆₂	105.507	0.57–0.67	2 W	150441* 2000 GU ₁₁₈			HNW
147269* 2002 YP ₁₆	5.52	0.24	2 W	150483 2000 PQ ₄	4.498	0.57	2 W
147270 2002 YT ₁₆	18.46	0.21	2 W	150544 2000 SG ₁₆₄	7.626	0.27	2 W
147276* 2002 YZ ₂₉			HNW	150608 2000 XG ₄₀	9.003	0.55	2 W
147277 2002 YC ₃₁	3.502	0.10	1 W	150626 2001 AG ₇	7.948	0.52	2 W
147322 2003 BC ₁₅	11.334	0.09	1 W	150634 2003 BY ₂₅	12.441	0.52	2 W
147448 2003 YT ₁₃₆		0.51	W	150642 2001 CZ ₃₁	4.71	0.21	2 A
147476* 2004 CK ₂₄	6.71	0.61	2 W	150789* 2001 RM ₃₁	5.242	0.61–0.78	2 W
147490 2004 CM ₇₅	29.9	0.20	1 W	150854 2001 SG ₁₁₀	6.176	0.86	2 W
147548 2004 EY ₅₉	4.71	0.19	2 W	150857 2001 SF ₁₂₀	5.594	0.61	2 W
147560 2004 FN ₂₅	261.904	0.86	2 W	150875 2001 SD ₂₁₃	20.557	0.68	2 W
147574* 2004 FC ₆₇	3.026	0.26–0.36	2 W	150887* 2001 SY ₂₄₈			HNW
147576* 2004 FA ₀₄	3.84	0.21	2 W	150896* 2001 SC ₂₉₀	8.28	0.56	2 W
147616* 2004 HS ₉			HNW	150975* 2001 TV ₁₉₆	5.11	1.10	3 W
147716 2005 KY ₁₂	6.950	0.70	2 W	151036 2001 UE ₁₈₂	4.974	0.36	2 W
147833 2005 TW ₄₉	5.809	0.69	2 W	151057 2001 VO ₁₄	20.631	0.6	NA
147880 2006 QV ₁₁₃	2.788	0.07	1 W	151062* 2001 VP ₂₈	5.632	0.79–1.13	2 W

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Planet	Period	Variation	Note	Planet	Period	Variation	Note
151097 2001 <i>VN</i> ₁₀₈	30.580	0.88	2 W	153927 2001 <i>YT</i> ₅₉	56.867	0.42	2 W
151113* 2001 <i>WG</i> ₃₂	8.76	0.70	1 DAW	153937 2001 <i>YG</i> ₉₇	16.313	0.22	W NA
151138 2001 <i>XL</i> ₄₀	3.782	0.22	2 W	153951* 2002 <i>AC</i> ₃	7.072	1.09	3
151220 2001 <i>YU</i> ₆₈	18.881	0.25	2 W	153952* 2002 <i>AZ</i> ₅	5.50	0.60	1 DAW
151278 2002 <i>AK</i> ₁₈₃	21.682	0.86	2 W	153957 2002 <i>AB</i> ₂₉	2.545	0.24	2+
151293 2002 <i>CN</i> ₂₆	8.252	0.47	2 W	153958 2002 <i>AM</i> ₃₁	2.8174	0.09–0.25	3 B
151357 2002 <i>CN</i> ₃₀₄	5.601	0.63	2 W	153987* 2002 <i>AS</i> ₁₅₀	6.08	0.36	1+ W
151540 2002 <i>SR</i> ₁₄	5.87	0.66	2 W	154026 2002 <i>CV</i> ₃₈	10.709	0.28	2 W
151566 2002 <i>TJ</i> ₁₆₉	4.066	0.46	2 W	154029 2002 <i>CY</i> ₄₆	2.554	0.07	3
151592* 2002 <i>VX</i> ₁₁	5.89	0.80	2 W	154058 2002 <i>CX</i> ₁₆₁	4.927	0.32	2 W
151652* 2002 <i>XF</i> ₉₃			HNW	154134 2002 <i>ET</i> ₁₁₁	9.690	0.31	2 W
151658 2002 <i>YK</i>	96.847	0.48	2 W	154152 2002 <i>GX</i> ₃	20.558	0.90	2 W
151775 2003 <i>EV</i> ₃₄	5.583	0.62	2 W	154186 2002 <i>GV</i> ₁₂₁	22.794	0.79	2 W
151801* 2003 <i>FK</i> ₅₇	4.32	0.86	3– W	154232 2002 <i>JC</i> ₁₀₄	6.836	0.47	2 W
151815* 2003 <i>FH</i> ₈₉			HNW	154244* 2002 <i>KL</i> ₆	4.6063	0.47–1.15	3 p
151827 2003 <i>FX</i> ₁₀₆	4.280	0.63	2 W	154275 2002 <i>SR</i> ₄₁	2.283	0.10–0.16	2+
151957 2004 <i>GE</i> ₁₄	20.43	0.45	2 W	154276 2002 <i>SY</i> ₅₀	4.823	0.52	3
152038 2004 <i>OW</i> ₁₂	4.205	0.76	2 W	154330 2002 <i>VX</i> ₉₄	8.932	0.65	2 W
152066* 2004 <i>PT</i> ₁₀₈	1.42	0.60	1+ W	154337 2002 <i>VV</i> ₁₂₁	9.717	0.54	2 W
152202 2005 <i>QE</i> ₁₄₃	10.130	0.48	2 W	154347 2002 <i>XK</i> ₄	3.319	0.08	3
152212 2005 <i>RG</i>	7.27	0.54	2 W	154367 2002 <i>XE</i> ₇₁	8.694	0.52	2 W
152266 2005 <i>SV</i> ₁₈₀	4.12	0.44	2 W	154382* 2002 <i>YS</i> ₂₆	7.666	0.66–0.73	2 W
152344 2005 <i>UY</i> ₇₅	5.276	0.79	2 W	154416 2003 <i>BF</i> ₂₁	5.243	0.45	2 W
152361* 2005 <i>UX</i> ₁₄₀	3.66232		N	154428* 2003 <i>BE</i> ₄₈	15.945	0.49–0.61	2 W
152434 2005 <i>UV</i> ₄₃₈	186.984	0.40	2 W	154453 2003 <i>CJ</i> ₁₁	5.23	0.08	2
152439 2005 <i>UP</i> ₄₄₆	6.462	1.11	2 W	154475 2003 <i>EU</i> ₂	13.15	0.50	2 W
152463 2005 <i>VE</i> ₇₇	3.692	0.48	2 W	154487 2003 <i>EZ</i> ₃₅	5.75	0.56	2 W
152475* 2005 <i>WD</i> ₁₀	6.32	1.10	2 W	154503 2003 <i>FQ</i> ₃₅	5.032	0.70	2 W
152510 2005 <i>XA</i> ₆₄	10.085	0.48	2 W	154508* 2003 <i>FC</i> ₄₉	5.96	0.71	2+ W
152564 1992 <i>HF</i>	3.276	0.13	2+	154555 2003 <i>HA</i>	5.183	0.28–0.36	3
152575* 1994 <i>GY</i>	16.28	0.34–0.34	2+	154634 2003 <i>XX</i> ₃₈	2.950	0.11	2–
152641* Fredreed	18.28	0.46	1+ DAW	154639 2003 <i>YJ</i> ₉₀	22.591	0.46	2 W
152664 1998 <i>FW</i> ₄	17.38	0.34	3 T0	154704* 2004 <i>JT</i> ₁₉	8.24	0.75	1 DAW
152679* 1998 <i>KU</i> ₂	125.	1.35	2 T	154713 2004 <i>LA</i> ₂	8.89	0.51	2 W
152719* 1998 <i>TQ</i> ₁₃			HNW	154752 2004 <i>PL</i> ₄	5.421	0.55	2 W
152756 1999 <i>JV</i> ₃	2.845	0.32	3	154807 2004 <i>PP</i> ₉₇	161.	0.96	2 T?
152779 1999 <i>RL</i> ₁₆₉	3.968	0.52	2 W	154852 2004 <i>RE</i> ₆₁	9.209	0.74	2 W
152847 1999 <i>VZ</i> ₁₅₆	8.963	0.34	2 W	154987* 2004 <i>WJ</i> ₄	6.11	1.02	2 W
152858 1999 <i>XN</i> ₃₅	2.990	0.18	2+	154998 2005 <i>NN</i> ₁	2.62	0.50	2 W
152863 1999 <i>XZ</i> ₁₁₄	130.446	0.50	2 W	155006 2005 <i>OU</i> ₁₄	7.93	0.66	2 W
152931 2000 <i>EA</i> ₁₀₇	4.137	0.28	3	155033* 2005 <i>QY</i> ₁₁₆			HNW
152978 2000 <i>GJ</i> ₁₄₇	13.22	0.47	2	155037 2005 <i>QP</i> ₁₅₇	5.077	1.06	2 W
153002 2000 <i>JG</i> ₅	6.051	0.85–0.91	3	155060 2005 <i>SG</i> ₂₈	10.21	0.61	2 W
153018* 2000 <i>KN</i> ₄₁	4.62	0.74–0.86	2 W	155095 2005 <i>SJ</i> ₁₉₃	>24.	1.1	2 W
153027 2000 <i>OP</i>	2.19	0.62	2 W	155110 2005 <i>TB</i>	3.479	0.43–0.48	3
153042 2000 <i>QP</i> ₁₄	3.15	0.20	2 W	155140 2005 <i>UD</i>	5.2310	0.44	2
153103* 2000 <i>ST</i> ₃₂	2.76	0.36	2 W	155214 2005 <i>UK</i> ₅₀₈	5.394	0.62	2 W
153110 2000 <i>SB</i> ₆₆	6.602	0.57	2 W	155292 2005 <i>XT</i> ₆₄	2.429	0.22	2 W
153115 2000 <i>SK</i> ₇₂	6.479	0.83	2 W	155296 2005 <i>YJ</i>	7.220	0.52	2 W
153123 2000 <i>SW</i> ₉₈	6.336	0.31	2 W	155334 2006 <i>DZ</i> ₁₆₉	4.682	0.17–0.21	2+
153144 2000 <i>SY</i> ₂₃₀	183.829	0.66	2 W	155337 2006 <i>KH</i> ₈₉		1.15	I
153255 2001 <i>BQ</i> ₅₃	8.201	0.88	2 W	155341 2006 <i>SA</i> ₂₁₈	32.8	0.23	2+
153381* 2001 <i>QU</i> ₂₄			HNW	155352* 2007 <i>CA</i> ₂₅			HNW
153412 2001 <i>QR</i> ₁₄₅	4.36	0.45	2 W	155386* 1994 <i>AF</i> ₆	4.71	0.64	3– W
153462* 2001 <i>RE</i> ₂	11.16	0.43–0.7	2	155509 1999 <i>RP</i> ₇₃	21.764	0.41	2 W
153501 2001 <i>RG</i> ₁₂₆	10.674	1.01	2 W	155613* 2000 <i>EW</i> ₁₃	5.89	0.80–0.96	3– W
153517* 2001 <i>SO</i> ₁₄	6.705	0.68–0.77	2 W	155655* 2000 <i>GG</i> ₁₄₄			HNW
153591 2001 <i>SN</i> ₂₆₃	3.423	0.13–0.27	3 p M	155712 2000 <i>QA</i> ₁₇₅	3.17	0.45	2 W
153615 2001 <i>TM</i> ₁₁	4.006	0.45	2 W	155721* 2000 <i>QQ</i> ₂₁₄			HNW
153633 2001 <i>TM</i> ₆₄	3.98	0.47	2 W	155740* 2000 <i>SF</i> ₄₆	17.583	0.37–0.45	2 W
153634 2001 <i>TS</i> ₆₅	9.14	0.31	2 W	155744 2000 <i>SC</i> ₆₁	8.367	0.73	2 W
153649 2001 <i>TJ</i> ₁₀₂	3.522	0.41	2 W	155759 2000 <i>SG</i> ₁₄₀	6.62	0.47	2 W
153652* 2001 <i>TC</i> ₁₀₃	3.0681	0.19	3	155766* 2000 <i>SO</i> ₂₂₃	5.13	0.78	1 W
153654 2001 <i>TB</i> ₁₁₃	4.47	0.51	2 W	155806 2000 <i>VE</i> ₂₈	14.66	0.09	1 W
153672 2001 <i>TO</i> ₁₈₉	28.24	0.66	2 W	155833 2000 <i>YB</i>	59.306	0.99	2 W
153695 2001 <i>US</i> ₃₅	18.61	0.34	NA	155835 2000 <i>YA</i> ₈	6.499	0.09	1 W
153729 2001 <i>UW</i> ₁₂₂	>8.	>0.1	1 W	155842 2000 <i>YC</i> ₈₇	3.751	0.53	2 W
153748 2001 <i>UB</i> ₁₆₁	5.55	1.10	2 W	155972 2001 <i>QW</i> ₂₂₇	6.448	0.63	2 W
153769* 2001 <i>VJ</i> ₂₉	6.32	0.60	2– W	156010 2001 <i>RQ</i> ₇₅	>10.	>0.25	1 W
153793 2001 <i>VF</i> ₇₈	6.932	0.37	2 W	156025 2001 <i>RD</i> ₁₁₅	3.15	0.21	2 W
153797* 2001 <i>VH</i> ₉₅	3.53	0.22	2+ W	156163 2001 <i>TF</i> ₁₁₂	4.015	0.64	2 W
153804 2001 <i>VO</i> ₁₁₃	6.86	0.47	2 W	156164 2001 <i>TC</i> ₁₁₆	4.123	0.59	2 W
153822 2001 <i>WH</i> ₃₇	5.6388	0.18	NA	156172 2001 <i>TG</i> ₁₅₉	6.15	0.80	2 W
153839 2001 <i>XS</i> ₂₀	3.750	0.57	2 W	156347* 2001 <i>XS</i> ₁₇₀	10.84	0.79	1 DAW
153858* 2001 <i>XE</i> ₆₄	6.71	0.33	3– W	156476 2002 <i>CO</i> ₄₉	2.524	0.17	2 W
153879 2001 <i>XY</i> ₁₄₁	2.3455	0.13	NA	156546* 2002 <i>DN</i> ₁₄	4.14	0.55	1+ W
153881 2001 <i>XH</i> ₁₄₈	5.13	0.41	2 W	156576* 2002 <i>EF</i> ₁₃₉	10.54	0.35	1 DAW
153884 2001 <i>XO</i> ₁₅₈	6.506	0.70	2 W	156751 2002 <i>XL</i> ₉₂	6.5287	0.85	2 A
153890 2001 <i>XL</i> ₁₈₈	6.509	0.43	2 W	156765 2003 <i>AZ</i> ₂₈	7.38	0.21	2 W
153892 2001 <i>XE</i> ₁₉₆	11.075	0.68	2 W	156766 2003 <i>AE</i> ₃₁	5.597	0.78	2 W

MINOR PLANET LIGHTCURVE PARAMETERS

Planet	Period	Variation	Note	Planet	Period	Variation	Note
156799 2003 <i>BD</i> ₁₈		0.84	W	160256* 2002 <i>PD</i> ₁₄₉			HNB
156902 2003 <i>EQ</i> ₃₁	8.283	0.18	2 W	160262 2002 <i>RO</i> ₈	3.228	0.27	2 W
156912 2003 <i>FS</i> ₂₅	2.66	0.51	2 W	160264* 2002 <i>RF</i> ₆₄	11.45	0.34–0.80	2 A
156926 2003 <i>FQ</i> ₆₁	11.16	0.81	2 W	160318 2003 <i>JR</i> ₈	21.83	0.24	2 NA
157004* 2003 <i>OB</i> ₃₃	9.32	1.09	1 W	160320 2003 <i>KF</i> ₁₂	4.299	0.37	2 W
157028 2003 <i>QH</i> ₁₀₃	7.564	0.46	2 W	160339 2003 <i>SY</i> ₆₆	7.496	0.67	2 W
157124 2004 <i>NJ</i> ₁₃			W	160345 2003 <i>SJ</i> ₁₇₅	13.52	0.28	2 W
157126 2004 <i>NA</i> ₁₇	62.192	0.87	2 W	160351 2003 <i>UZ</i> ₈₅	8.671	0.63	2 W
157231 2004 <i>RL</i> ₇₅	2.841	0.29	2 W	160353* 2003 <i>UV</i> ₁₆₂	11.707	0.65–0.70	2 W
157272* 2004 <i>RE</i> ₂₂₄	4.85	0.54	1+ W	160468* 2006 <i>DZ</i> ₆₇	3.320	0.61–0.66	2 W
157312 2004 <i>SU</i> ₃₂	131.661	0.52	2 W	160559 1998 <i>RS</i> ₅₅	7.80	0.40	2 W
157340 2004 <i>TT</i> ₄₅	19.838	0.47	2 W	160581* 1999 <i>KH</i> ₁₂	6.91	1.03	3– W
157442 2004 <i>VZ</i> ₁₃	6.160	0.58	2 W	160615 1999 <i>TG</i> ₉₇	4.66	0.39	2 W
157481* 2005 <i>QS</i> ₇₇			HNW	160684* 2000 <i>EL</i> ₁₀			HNW
157494 Durham	14.210	0.08	1 W	160734 2000 <i>RS</i> ₂₃	1.360	0.15	1
157527 2005 <i>SU</i> ₂₆₅	6.11	0.93	2 W	160781* 2000 <i>SK</i> ₂₇₇	3.10	0.37	3– W
157530 2005 <i>TX</i> ₁₇		0.55	W	160869 2001 <i>KM</i> ₃₉	6.916	0.10	1 W
157551* 2005 <i>UZ</i> ₆₆	5.543	0.54–0.55	2 W	160957 2002 <i>AD</i> ₁₄₂	5.070	0.28	2 W
157632 2005 <i>WO</i> ₁₆₂	5.978	0.73	2 W	161018 2002 <i>EU</i> ₁₀₇		1.05	I
157641* 2005 <i>XX</i> ₈₁	7.33	0.72	2– W	161061 2002 <i>JN</i> ₉₉	4.814	0.87	2 W
157688 2005 <i>YX</i> ₂₁₀	30.702	0.51	2 W	161101* 2002 <i>PL</i> ₁₅₄	134.613	0.53–0.61	2 W
157770 2007 <i>EO</i> ₅₇	9.23	0.67	2 W	161103* 2002 <i>PT</i> ₁₆₉	7.760	0.58–0.64	2 W
157794 1994 <i>PP</i> ₁₄	6.737	0.66	2 W	161115* 2002 <i>RL</i> ₂	8.81	0.86	2 W
157799* 1995 <i>SE</i> ₁₃			HNW	161128 2002 <i>RG</i> ₇₇	3.323	0.34	2 W
157800 1995 <i>SS</i> ₁₈	8.112	0.56	2 W	161139* 2002 <i>RJ</i> ₁₅₀	6.80	0.64	2 DAW
157900 1999 <i>TW</i> ₁₀₈	225.503	0.68	2 W	161143* 2002 <i>RR</i> ₁₆₁	5.05	0.91	1+ W
157907 1999 <i>TY</i> ₁₅₄	3.034	0.52	2 W	161151 2002 <i>SH</i> ₂₇	19.778	0.69	2 W
157952 2000 <i>CX</i> ₁₁₁	5.085	0.51	2 W	161192 2002 <i>TN</i> ₁₉₆	6.963	0.59	2 W
158042 2000 <i>SK</i> ₁₁₂	5.511	0.29	2 W	161195 2002 <i>TS</i> ₂₂₇	3.009	0.25	2 W
158125 2001 <i>DQ</i> ₈₇	9.102	0.47	2 W	161210 2002 <i>UG</i> ₆	34.207	0.43	2 W
158156 2001 <i>OR</i> ₁₀	9.050	0.40	2 W	161221 2002 <i>XJ</i> ₁	104.209	0.42	2 W
158235 2001 <i>SV</i> ₂₉₃	11.57	0.65	2 W	161224* 2002 <i>XP</i> ₄₄			HNW
158308 2001 <i>UB</i> ₂₀₆	9.295	0.38	2 W	161227 2002 <i>XO</i> ₆₈	8.73	0.29	2 W
158315 2001 <i>VX</i> ₃₂	6.357	0.54	2 W	161236 2003 <i>AK</i> ₂₉	59.201	0.68	2 W
158345* 2001 <i>XE</i> ₆₇	30.369	0.44–0.52	2 W	161268* 2003 <i>FJ</i> ₆₁	5.93	0.24	2 W
158393 2001 <i>YD</i> ₄₇	9.095	0.50	2 W	161307 2003 <i>OR</i> ₂	4.570	0.51	2 W
158553 2002 <i>JS</i> ₁	203.554	0.73	2 W	161354* 2003 <i>SH</i> ₁₄₉	6.032	0.48–0.49	2 W
158794* 2003 <i>SG</i> ₁₄₉	3.81	0.47	1 W	161357 2003 <i>SB</i> ₁₆₂	6.468	0.74	2 W
158914 2004 <i>RV</i> ₂₆	5.05	0.77	2 W	161386 2003 <i>UB</i> ₂₈	64.136	0.86	2 W
159073 2004 <i>TP</i> ₂₀₂	4.314	0.50	2 W	161391 2003 <i>UF</i> ₉₇	4.47	0.49	2 W
159082 2004 <i>TU</i> ₂₃₇	4.144	0.39	2 W	161395* 2003 <i>UM</i> ₁₃₁	4.722	0.36–0.44	2 W
159094* 2004 <i>TL</i> ₃₀₃	7.93	0.90	2– W	161495* 2004 <i>MA</i> ₁	9.682	0.52–0.66	2 W
159101 2004 <i>TP</i> ₃₅₁	4.718	0.45	2 W	161723 2006 <i>RT</i> ₂₁	45.	0.20	1 W
159151 2004 <i>XD</i> ₁₀₉	7.56	0.45	2 W	161738 2006 <i>SD</i> ₁₂₆	256.443	0.61	2 W
159371* 1995 <i>CG</i> ₈	2.92	0.30	2 W	161739 2006 <i>SL</i> ₁₂₆	18.234	0.34	2 W
159399 1998 <i>UL</i> ₁	4.01	0.12	2– W	161772 2006 <i>TG</i> ₈₉	7.194	0.57	2 W
159402 1999 <i>AP</i> ₁₀	7.908	0.36	3	161804* 2006 <i>VO</i> ₈₇			HNW
159404 1999 <i>FX</i> ₃₄	4.708	0.54	2 W	161912 2007 <i>DY</i> ₉₇	4.87	0.86	2 W
159410 1999 <i>RU</i> ₁₂₂	6.62	0.65	2 W	161985* 1253 <i>T</i> ₂	6.36	0.36	2 W
159414 1999 <i>RN</i> ₁₇₈	8.73	0.76	2 W	161989 Cacus	3.7538	0.80–1.1	3
159425 1999 <i>TY</i> ₁₅₁	16.717	0.23	2 W	161998 1988 <i>PA</i>	13.4	0.50	2
159439 1999 <i>XR</i> ₁₂	2.891	0.14	2 W	162000 1990 <i>OS</i>	2.536	0.22	1
159454 2000 <i>DJ</i> ₈	14.245	0.25	2	162004 1991 <i>VE</i>	13.4802	1.08–1.11	3
159493 2000 <i>UA</i>	14.517	0.38	3	162021* 1995 <i>FV</i> ₁₁			HNW
159504 2000 <i>WO</i> ₆₇	7.84	0.20	2	162038 1996 <i>DH</i>	7.16	0.18	2
159505 2000 <i>WP</i> ₇₇	4.66	0.71	2 W	162058 1997 <i>AE</i> ₁₂	1880.	>0.6	NT0
159512 2000 <i>YR</i> ₁₀₆	25.504	0.21	2 W	162066 1997 <i>MU</i> ₈	5.45	0.32	2 W
159533 2001 <i>HH</i> ₃₁	3.660	0.11	2 A	162097 1998 <i>QF</i> ₃₀	6.063	0.33	2 W
159669 2002 <i>GY</i> ₇₃	6.35	0.27	N	162117* 1998 <i>SD</i> ₁₅	7.33	0.26	3–
159676 2002 <i>HH</i> ₃	4.297	0.38	2 W	162138 1998 <i>UY</i> ₁₃	2.433	0.48–0.50	2 W
159708 2002 <i>TK</i> ₁₇₉	73.396	0.29	2 W	162142* 1998 <i>VR</i>	8.44	0.14	2
159709 2002 <i>TZ</i> ₁₉₁	4.171	0.37	2 W	162173 Ryugu	7.627	0.10–0.16	2 p
159780 2003 <i>MV</i> ₆	18.098	0.20	2 W	162181 1999 <i>LF</i> ₆	14.77	0.17–0.23	2
159787 2003 <i>OH</i> ₁₉	6.914	0.57	2 W	162210 1999 <i>SM</i> ₅	6.230	0.77–0.95	N
159796* 2003 <i>QT</i> ₁₀₉	7.130	0.53–0.57	2 W	162297 1999 <i>VU</i> ₁₆₇	3.68	0.54	2+ W
159799 Kralice	8.42	0.22	2 W	162385 2000 <i>BM</i> ₁₉	9.47	1.38	2–
159844 2003 <i>WA</i> ₁₂	5.980	0.36	2 W	162416 2000 <i>EH</i> ₂₆	>24.		RT0
159857 2004 <i>LJ</i> ₁	2.7247	0.15–0.59	3	162421 2000 <i>ET</i> ₇₀	8.947	0.60	3– p
159889 2004 <i>TR</i> ₁₄	8.292	0.47	N	162457 2000 <i>HO</i> ₃₅	40.035	0.42	2 W
159914* 2004 <i>VH</i> ₇₀			HNW	162463* 2000 <i>JH</i> ₅	3.024	0.21	2
160022 1995 <i>YL</i> ₁₁	5.49	0.19	2 W	162479* 2000 <i>OH</i> ₃₁	2.96	0.18	1+ W
160028 1998 <i>ET</i> ₅	7.491	0.59	2 W	162483 2000 <i>PJ</i> ₅	2.642	0.25	3– B?
160036 1998 <i>XH</i> ₇	15.48	0.45	2 W	162525 2000 <i>QK</i> ₁₂₇	5.145	0.66	2 W
160091 2000 <i>OL</i> ₆₇			HB	162565 2000 <i>RU</i> ₃₁	2.552	0.18	2 W
160092 2000 <i>PL</i> ₆	3.0132	0.16	3–	162566* 2000 <i>RJ</i> ₃₄	50.67	0.67–0.78	3–
160140 2001 <i>DZ</i> ₃		1.13	I	162577 2000 <i>RR</i> ₉₀	6.085	0.59	2 W
160149 2001 <i>LC</i> ₃₀	2.50	0.28	2 W	162635 2000 <i>SS</i> ₁₆₄	6.8939	0.86	N
160150* 2001 <i>MP</i> ₃₀			HNW	162641 2000 <i>SB</i> ₁₇₉	7.323	0.49	2 W
160228 2002 <i>GQ</i> ₁₁₂	8.564	0.09	1 W	162713 2000 <i>UY</i> ₉₅	4.098	0.40	2 W
160246 2002 <i>OV</i> ₂	3.693	0.27	2 W	162772 2000 <i>WX</i> ₁₇₅	108.495	0.75	2 W

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Planet	Period	Variation	Note	Planet	Period	Variation	Note
162805 2001 <i>AR</i>	10.078	0.36	2 W	165052 2000 <i>EE</i> ₅₉	7.431	0.47	2 W
162809* 2001 <i>AW</i> ₃₄	5.577	0.54–0.63	2 W	165151* 2000 <i>QT</i> ₃₃	5.13	0.46–0.61	3 W
162811* 2001 <i>AG</i> ₅₁	29.	0.25	2–	165194* 2000 <i>RD</i> ₅	3.74	0.25	2 W
162832 2001 <i>CO</i> ₆	10.649	0.82	2 W	165360* 2000 <i>WA</i> ₇₇	3.31	0.22	1 W
162900 2001 <i>HG</i> ₃₁	60.61	0.15–0.56	3 T	165492 2001 <i>BL</i> ₃₁	4.752	0.78	2 W
162909 2001 <i>KQ</i> ₄₁	5.360	0.41	2 W	165552* 2001 <i>DS</i> ₄₂	5.435	0.50–0.53	2 W
162917 2001 <i>OW</i> ₁	8.147	0.68	2 W	165607 2001 <i>FS</i> ₆₆	4.417	0.43	2 W
162920* 2001 <i>OF</i> ₉	17.555	0.31–0.33	2 W	165695 2001 <i>PT</i> ₃₂	3.254	0.23	2 W
162921 2001 <i>OL</i> ₁₁	140.062	0.34	2 W	165742* 2001 <i>QO</i> ₁₆₂	4.44	0.65–0.70	3– W
162936 2001 <i>OD</i> ₁₀₂	4.110	0.36	2 W	165755 2001 <i>QK</i> ₂₀₇	5.36	0.38	2 W
162943* 2001 <i>QZ</i> ₁₈	4.78	1.01	2 W	165783* 2001 <i>RQ</i> ₁	4.982	0.70–0.78	2 W
162977 2001 <i>QY</i> ₂₉₄	15.677	0.25	2 W	165785* 2001 <i>RT</i> ₅	4.71	0.42–0.47	2 W
162980 2001 <i>RR</i> ₁₇	12.71	0.23	2	165815 2001 <i>RF</i> ₁₀₀	4.338	0.23	2 W
162998 2001 <i>SK</i> ₁₆₂	68.	0.40	NT0	165890* 2001 <i>SW</i> ₁₉₈			HNW
163000* 2001 <i>SW</i> ₁₆₉	69.97	0.45–0.45	3–	165997 2002 <i>AP</i> ₃₁	3.428	0.10	1 W
163033 2001 <i>XX</i> ₁₄₂	4.575	0.59	2 W	166045 2002 <i>CJ</i> ₁₇	14.875	0.53	2 W
163035* 2001 <i>XK</i> ₁₇₆	5.08	0.69	1 W	166243 2002 <i>GL</i> ₁₃	>6.	>0.05	
163048 2001 <i>XJ</i> ₂₄₀	11.379	0.10	1 W	166258 2002 <i>GY</i> ₆₀	4.134	0.59	2 W
163081 2002 <i>AG</i> ₂₉	19.70	0.25	3– T0	166500* 2002 <i>QD</i> ₁₇	5.85	0.72	2+ W
163102 2002 <i>AQ</i> ₁₂₅	6.08	0.54	2 W	166572 2002 <i>RU</i> ₁₂₀	7.62	0.26	2 W
163191 2002 <i>EQ</i> ₉	3.	0.2	1	166632 2002 <i>SP</i> ₃₀	3.502	0.37	2 W
163230 2002 <i>EG</i> ₁₂₅	13.456	0.70	2 W	166646 2002 <i>TJ</i> ₄	12.950	0.44	2 W
163243* 2002 <i>FB</i> ₃	6.231	0.19	2	166653 2002 <i>TT</i> ₂₀	7.27	0.61	2 W
163249 2002 <i>GT</i>	3.7663	0.31–0.36	3	166672* 2002 <i>TM</i> ₇₇	4.78	0.77	1+ W
163252 2002 <i>GD</i> ₁₁	7.	0.15	1	166676* 2002 <i>TO</i> ₉₂	3.14	0.49	1 W
163348* 2002 <i>NN</i> ₄	14.50	0.74	3–	166682* 2002 <i>TM</i> ₁₁₂			HNW
163362 2002 <i>OZ</i> ₁₄	14.251	0.46	2 W	166782* 2002 <i>VH</i> ₃₃	4.34	0.75	2 W
163364 2002 <i>OD</i> ₂₀	2.420	0.11	2+ W	166802 2002 <i>VG</i> ₅₈	7.383	0.58	2 W
163419 2002 <i>RK</i> ₅₂	15.964	0.49	2 W	166808* 2002 <i>VS</i> ₇₅	3.543	0.74–0.81	2 W
163431* 2002 <i>RR</i> ₆₇	70.583	0.27–0.28	2 W	166872 2002 <i>XP</i> ₅₀	8.746	0.36	2 W
163434 2002 <i>RY</i> ₇₂	7.22	0.49	2 W	166940 2003 <i>HU</i> ₄₄	7.227	0.09	1 W
163457* 2002 <i>RV</i> ₁₃₄			HNW	166949 2003 <i>JU</i> ₁₀	8.980	0.83	2 W
163475* 2002 <i>RQ</i> ₂₁₂			HNW	167138 2003 <i>SP</i> ₁₉₅	4.206	0.64	2 W
163486 2002 <i>SL</i> ₆	12.846	0.72	2 W	167208 Lelekovic	5.6	0.25	N
163489* 2002 <i>SE</i> ₁₁	8.35	1.03	2 W	167257* 2003 <i>UG</i> ₁₁₈	4.356	0.52–0.61	2 W
163502 2002 <i>SA</i> ₄₆	3.89	0.42	2 W	167278 2003 <i>UZ</i> ₁₆₁	13.084	0.42	2 W
163509 2002 <i>SU</i> ₆₀	51.959	0.69	2 W	167565* 2004 <i>BQ</i> ₄₃			HNW
163533 2002 <i>TY</i> ₄₆	5.376	0.61	2 W	167570* 2004 <i>BG</i> ₅₂	9.90	0.47	2 W
163544 2002 <i>TK</i> ₈₅	12.441	0.40	2 W	167573* 2004 <i>BR</i> ₆₁			HNW
163546 2002 <i>TL</i> ₉₀	7.339	0.39	2 W	167628* 2004 <i>CS</i> ₇₆	4.470	0.61	2 W
163554 2002 <i>TU</i> ₁₁₄	5.890	0.28	2 W	167631* 2004 <i>CE</i> ₈₇	10.348	0.33–0.41	2 W
163555* 2002 <i>TK</i> ₁₁₇			HNW	167643 2004 <i>DP</i> ₁₄	2.343	0.05	1 W
163567 2002 <i>TU</i> ₁₃₅	7.760	0.50	2 W	167647* 2004 <i>DV</i> ₃₇	11.875	0.67–0.86	2 W
163594 2002 <i>TH</i> ₂₀₇	117.736	0.94	2 W	167870 2005 <i>EP</i> ₂₇	18.11	0.55	2 W
163634 2002 <i>UW</i> ₂₅	10.426	0.54	2 W	168019* 2005 <i>JX</i> ₈			HNW
163676* 2002 <i>XG</i> ₆₂	4.82	0.61	2– W	168041* 2005 <i>MH</i> ₁₈	7.33	0.62	1+ W
163693* Atira	3.3984	>0.36	2 AB	168089* 2006 <i>DM</i> ₈₄	1.39	0.40	1 W
163694* 2003 <i>DP</i> ₁₃	2.387	0.13	3–	168318 1989 <i>DA</i>	3.925	0.12	3
163696 2003 <i>EB</i> ₅₀	62.4	0.73–0.83	2+ T0	168378 1997 <i>ET</i> ₃₀	5.721	0.13	3
163732 2003 <i>KP</i> ₂	151.1	1.7	NT?	168381 1997 <i>LY</i> ₄	46.07	1.0	3 T
163818* 2003 <i>RX</i> ₇	5.649	0.11	3–	168385 1997 <i>RH</i> ₄	3.961	0.30	2 W
163890 2003 <i>SC</i> ₁₉₉		0.63	W	168714 2000 <i>JQ</i> ₁₀	2.5	0.1	1+ W
163899 2003 <i>SD</i> ₂₂₀	285.	2.2	2+ T?	168780* 2000 <i>RN</i> ₅₂	2.84	0.55	2– W
163934 2003 <i>SG</i> ₃₁₁	8.438	0.19–0.28	2 W	168847 2000 <i>UU</i> ₃₄	2.9	0.2	2 W
163956 2003 <i>UV</i> ₄₅	3.126	0.44	2 W	168871 2000 <i>WB</i> ₉	3.692	0.86	2 W
163964 2003 <i>UR</i> ₈₁	7.22	0.95	2– W	168904 2000 <i>WY</i> ₁₈₉	3.335	0.20	2 W
163974 2003 <i>UC</i> ₁₀₉	2.50	0.41	2 W	168906 2000 <i>XE</i> ₁₂	2.881	0.19	2 W
163978 2003 <i>UU</i> ₁₁₅	2.979	0.41	2 W	168945 2000 <i>YN</i> ₁₃₁	6.596	0.81	2 W
164013* 2003 <i>UT</i> ₁₉₇	5.895	0.56–0.61	2 W	168981 2001 <i>CT</i> ₃	4.835	0.07	1 W
164025 2003 <i>UH</i> ₂₂₆	3.58	0.46	2 W	169012 2001 <i>DD</i> ₄₅	11.583	0.30	2 W
164079 2003 <i>WS</i> ₉₄	5.30	0.94	2 W	169066 2001 <i>FR</i> ₁₅₇	97.669	0.38	2 W
164080 2003 <i>WJ</i> ₉₆	2.66	0.56	2 W	169114 2001 <i>OK</i> ₄₇	6.86	0.56	2 W
164083 2003 <i>WU</i> ₁₀₃	14.	0.33	2–	169134 2001 <i>QB</i> ₃₆	10.21	1.11	2 W
164104 2003 <i>XF</i> ₉	2.628	0.29	2 W	169189 2001 <i>RZ</i> ₂₈	4.186	0.59	2 W
164121 2003 <i>YT</i> ₁	2.343	0.16–0.27	3 B	169228* 2001 <i>SD</i> ₁₄	7.38	0.73	2 W
164131* 2003 <i>YL</i> ₄₃	17.14	0.68	1 W	169233 2001 <i>SF</i> ₃₂	5.185	0.55	2 W
164184 2004 <i>BF</i> ₆₈	5.568	0.67	3–	169255 2001 <i>SP</i> ₁₂₉	8.161	0.26	2 W
164201 2004 <i>EC</i>	6.642	0.14	2	169423* 2001 <i>YV</i> ₁₁	4.78	0.30	1+ W
164228 2004 <i>RC</i> ₂₂₉	6.25	1.02	2+ W	169534* 2002 <i>ED</i> ₆₉	12.80	0.45	2– W
164290* 2004 <i>XY</i> ₁₀₆	11.85	0.29	1 W	169782 2002 <i>PT</i> ₁₂₃	2.973	0.09	1 W
164308 2005 <i>AE</i> ₁₂	10.397	0.53	2 W	169850 2002 <i>RC</i> ₃₀	3.423	0.22	2 W
164380 2005 <i>EB</i> ₁₄₈	12.47	0.26	2 W	169855 2002 <i>RU</i> ₄₁	100.351	0.90	2 W
164400 2005 <i>GN</i> ₅₉	38.69	1.30	3 T–	169920 2002 <i>SQ</i> ₁₄	5.445	0.85	2 W
164405* 2005 <i>UK</i> ₅₀₄	16.766	0.53–0.67	2 W	169950 2002 <i>TL</i> ₆₆	9.602	0.33	2 W
164443 2006 <i>DH</i> ₃₅	7.568	0.65	2 W	169964 2002 <i>TD</i> ₁₃₀	3.79	0.34	2 W
164482 2006 <i>FG</i> ₂₄	4.32	0.40	2 W	170105* 2002 <i>XA</i> ₈₅			HNW
164625 1993 <i>TC</i> ₁₅	6.32	0.37	2 W	170133* 2003 <i>AB</i> ₃₆	4.127	0.41–0.55	2 W
164716 1998 <i>GH</i>	2.645	0.06	1 W	170186* 2003 <i>NS</i> ₆	3.20	0.62	2 W
164865 1999 <i>TA</i> ₂₇₃	15.157	0.14	2 W	170364* 2003 <i>SV</i> ₂₁₀	2.58	0.53	1 W
164874 1999 <i>UL</i> ₃₇	6.11	0.42	2 W	170547 2003 <i>WL</i> ₁₂₇	17.020	0.73	2 W

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Planet	Period	Variation	Note	Planet	Period	Variation	Note
170689* 2004 <i>BN</i> ₂			HNW	174680* 2003 <i>SC</i> ₃₀₄	4.350	0.69–0.79	2 W
170711 2004 <i>BD</i> ₄₀	3.17	0.43	2 W	174692* 2003 <i>UY</i> ₂₅			HNW
170727* 2004 <i>BU</i> ₇₃	9.94	0.70	2 DAW	174751 2003 <i>UQ</i> ₂₇₆	2.878	0.23	2 W
170845 2004 <i>FK</i> ₆₅	4.25	0.16	2 W	174790* 2003 <i>WZ</i> ₁₂₃	5.49	0.52	2 W
170891 2004 <i>TY</i> ₁₆	2.795	0.18	3	174830 2003 <i>YY</i> ₇₉	42.158	0.49	2 W
170914 2004 <i>XN</i> ₁₂₂	126.833	0.61	2 W	174837 2003 <i>YP</i> ₁₁₂	42.970	0.87	2 W
170965* 2005 <i>CW</i> ₁₁			HNW	174946 2004 <i>CF</i> ₈₅	9.32	0.56	2 W
171069 2005 <i>ES</i> ₁₅₂	4.32	0.55	2 W	175047 2004 <i>FK</i> ₉₃	3.256	0.22	1 W
171207* 2005 <i>JQ</i> ₆₃	4.29	0.54	2– W	175110 2004 <i>NF</i> ₉	7.80	0.83	2 W
171257 2005 <i>QP</i> ₇₇	2.26	0.51	2 W	175114 2004 <i>QQ</i>	8.879	0.11	2+
171293 2006 <i>GV</i> ₃₈	5.260	0.92	2 W	175245 2005 <i>JZ</i> ₁₅	4.452	0.15	1 W
171390* 2006 <i>PK</i> ₁₃	6.94	0.70	1 DAW	175313 2005 <i>MF</i> ₁₅	4.92	0.77	2 W
171398* 2006 <i>QH</i> ₄₂	2.88	0.67	1+ W	175347* 2005 <i>NV</i> ₁₂₂	7.250	0.37–0.39	2 W
171400 2006 <i>QZ</i> ₉₈	4.852	0.65	2 W	175412* 2006 <i>PA</i> ₉	7.96	0.50	1 DAW
171576 1999 <i>VP</i> ₁₁		0.08	N	175487 2006 <i>RW</i> ₃₅	11.13	0.16	1+ W
171677 2000 <i>QG</i> ₁₃₆	7.528	0.18	2– W	175506 2006 <i>SO</i> ₂	2.799	0.12	1 W
171819* 2001 <i>FZ</i> ₆	15.24	0.12	2+ W	175656* 3397 <i>T–3</i>	4.23	0.55	2+ W
171825 2001 <i>FQ</i> ₆₃	64.444	0.64	2 W	175706* 1996 <i>FG</i> ₃	3.5942	0.04–0.2	3 p B
171839 2001 <i>JM</i> ₁	5.7516	0.15	N	175799 1999 <i>RT</i> ₁₄₇	6.004	0.26	2 W
171879* 2001 <i>QQ</i> ₂₆₃	15.127	0.29–0.31	2 W	175809 1999 <i>RU</i> ₁₈₂	202.127	0.82	2 W
171888 2001 <i>RJ</i> ₂₀	3.09	0.39	2 W	175821* 1999 <i>TB</i> ₃₁	5.39	0.73	2 W
171914 2001 <i>SM</i> ₇₅		0.68	W	175847 1999 <i>TF</i> ₂₉₃	7.678	0.50	2 W
171942* 2001 <i>SA</i> ₂₅₆			HNW	175856 1999 <i>UQ</i> ₅₆	4.960	0.27	2 W
171992* 2001 <i>TK</i> ₂₁₄			HNW	176010* 2000 <i>RV</i> ₈₇			HNW
172022 2001 <i>UZ</i> ₂₀₉	10.765	0.36	2 W	176043 2000 <i>SW</i> ₂₉₄	4.821	0.43	2 W
172036* 2001 <i>WO</i> ₂₈	26.288	0.34–0.45	2 W	176111 2001 <i>DY</i> ₉	6.290	0.80	2 W
172104* 2002 <i>GA</i> ₁₂	9.80	1.16	1 DAW	176139* 2001 <i>FA</i> ₆₂	5.13	0.81	2 W
172143 2002 <i>JW</i> ₈₀	6.350	0.09	1 W	176353* 2001 <i>TK</i> ₈₄	11.57	0.30	1 W
172148* 2002 <i>LU</i> ₅	4.29	0.38	2– W	176422 2001 <i>VU</i> ₂₆	6.939	0.69	2 W
172158* 2002 <i>NS</i> ₂₈	4.97	0.50	1+ W	176505 2001 <i>YF</i> ₂₉	5.34	0.56	2–
172170 2002 <i>OE</i> ₄	3.657	0.46	2 W	176537 2002 <i>AA</i> ₁₇	6.60	0.30	2– W
172279 2002 <i>TO</i> ₁₂₁	7.83	0.23	2– W	176628* 2002 <i>JP</i> ₁₁₅			HNW
172402* 2003 <i>BJ</i> ₅₁	8.748	0.67–0.68	2 W	176829 2002 <i>TH</i> ₁₆₆	14.596	0.77	2 W
172410 2003 <i>CB</i> ₂	6.351	0.39	2 W	176865 2002 <i>TB</i> ₂₉₆	69.465	0.59	2 W
172464* 2003 <i>SQ</i> ₁₀	5.05	0.80	2+ W	176929 2002 <i>VW</i> ₁₂₁	4.370	0.10	1 W
172471* 2003 <i>SW</i> ₄₆	4.49	0.17	2 W	176932 2002 <i>VC</i> ₁₃₉	5.3		N
172473 2003 <i>SB</i> ₅₅	5.360	0.64	2 W	176988* 2002 <i>YR</i> ₂₉	7.732	0.69–0.91	2 W
172537 2003 <i>UH</i> ₂₇	386.901	0.62	2 W	177002 2003 <i>AG</i> ₅₉	3.14	0.30	2 W
172601 2003 <i>WG</i> ₄₃	39.971	0.73	2 W	177054 2003 <i>EY</i> ₃₅	2.72	0.45	2 W
172613* 2003 <i>WE</i> ₁₀₁	7.93	0.75	2 W	177109 2003 <i>GZ</i> ₂	11.85	0.47	2 W
172652 2003 <i>YE</i> ₇₇	3.9		N	177200 2003 <i>UL</i> ₈₆	8.143	0.09	1 W
172699 2004 <i>BR</i> ₂₃	8.44	0.97	2 W	177288 2003 <i>XF</i>	7.33	0.65	2 W
172797 2004 <i>FN</i> ₁₀₃	8.73	0.45	2 W	177302 2003 <i>YB</i> ₇	7.735	0.88	2 W
172858* 2005 <i>EC</i> ₆₉	4.03	0.78	2 W	177304* 2006 <i>YS</i> ₁₂	14.76	0.61	1 DAW
172924 2005 <i>GE</i> ₁₄₄	7.643	0.68	2 W	177322 2003 <i>YX</i> ₄₃	2.584	0.07	1 W
172954* 2005 <i>KC</i> ₆			HNW	177325 2003 <i>YJ</i> ₄₉	14.018	0.41	2 W
173082 2006 <i>UT</i> ₂₆₅	10.21	0.47	2 W	177510 2004 <i>EP</i> ₆₄	6.255	0.73	2 W
173140 1995 <i>SH</i> ₁₉	84.	0.8	1 W	177607 2004 <i>HD</i> ₁	3.754	0.38	2 W
173147 1995 <i>UC</i> ₃₈	6.847	0.15	1 W	177682* 2005 <i>ED</i> ₂₃₂			HNW
173247 1999 <i>RQ</i> ₄₆	3.150	0.09	1 W	177685 2005 <i>EE</i> ₂₆₄	30.956	0.41	2 W
173255 1999 <i>RP</i> ₁₀₆	5.401	0.70	2 W	177724 2005 <i>GZ</i> ₂₂₃	7.840	0.53	2 W
173273 1999 <i>SZ</i> ₄	6.523	0.08	1 W	177726 2005 <i>HX</i> ₄	4.97	0.44	2 W
173293* 1999 <i>TZ</i> ₂₂₀			HNW	177798 2005 <i>LR</i> ₄₅	4.205	0.48	2 W
173464* 2000 <i>QX</i> ₁₅₄	9.095	0.40–0.46	2 W	177874* 2005 <i>QM</i> ₇₄			HNW
173490 2000 <i>SP</i> ₁₇₆	6.332	0.09	1 W	177961* 2006 <i>PQ</i> ₈	9.545	0.26–0.65	2 W
173515 2000 <i>UY</i> ₇₉	17.784	0.58	2 W	178014 2006 <i>RG</i>	16.27	0.48	2 W
173528* 2000 <i>WV</i> ₁			HNW	178044 2006 <i>RT</i> ₉₂	30.	0.24	1 W
173571* 2001 <i>BU</i> ₂₉	2.39	0.38	1 W	178170* 2006 <i>US</i> ₅₃	3.04	0.21	1+ W
173614 2001 <i>FN</i> ₂₄	4.698	0.82	2 W	178296* 1992 <i>SM</i> ₆			HNW
173623 2001 <i>FY</i> ₅₁	17.4		N	178303 1993 <i>TB</i> ₂₇	8.640	0.68	2 W
173748 2001 <i>RW</i> ₃₀	5.2962	0.80	3 W	178414* 1998 <i>RH</i> ₃₄			HNW
173871* 2001 <i>TW</i> ₂₃₅	5.250	0.68–0.94	2 W	178461* 1999 <i>RY</i> ₇₅			HNW
173878 2001 <i>UN</i> ₃₈	2.974	0.20	1+ W	178533 1999 <i>TB</i> ₃₁₉	5.207	0.52	2 W
173885 2001 <i>UA</i> ₆₁	5.034	0.13	1 W	178581 1999 <i>XC</i> ₆₆	6.922	0.60	2 W
173974 2001 <i>XV</i> ₁₂₇	18.52	0.20	1+ W	178655* 2000 <i>PO</i> ₂₉	3.75	0.29	2 W
173991* 2001 <i>XR</i> ₁₇₀	9.132	0.14–0.49	2 W	178734 2000 <i>TB</i> ₂	4.6	0.33	2–
174054* 2002 <i>CC</i> ₅₇	6.62	0.71	2+ W	178854* 2001 <i>KR</i> ₁₆	5.68	0.52	2 W
174136 2002 <i>NR</i> ₁₅	2.316	0.10	1 W	178896 2001 <i>OG</i> ₅₈	4.633	0.86	2 W
174473 2003 <i>AX</i> ₁₆	3.16	0.34	2 W	179138 2001 <i>SU</i> ₃₁₆	3.72	0.96	2 W
174497 2003 <i>BG</i> ₂₂	16.847	0.36	2 W	179151 2001 <i>TD</i> ₂₁	17.673	0.18	2 W
174511 2003 <i>BH</i> ₇₇	5.03	0.59	2 W	179333 2001 <i>XX</i> ₈	19.004	0.75	2 W
174542 2003 <i>FE</i>	5.119	0.37	2 W	179343 2001 <i>XW</i> ₉₀	7.779	0.76	2 W
174567* Varda	5.91	0.04	2– B	179350 2001 <i>XG</i> ₁₂₃	18.408	1.14	2 W
174586* 2003 <i>QQ</i> ₃₉	3.49	0.25	2– W	179413 2001 <i>YM</i> ₁₆₁	16.817	1.24	2 W
174606 2003 <i>RP</i> ₂₁	5.666	0.80	2 W	179458 2002 <i>AQ</i> ₁₇₇	29.897	0.51	2 W
174633 2003 <i>SM</i> ₁₁₀	3.579	0.19	3	179572 2002 <i>FY</i> ₁₁	13.41	1.19	2 W
174643* 2003 <i>SF</i> ₁₄₅	12.31	1.3	1 W	179596* 2002 <i>NS</i> ₁₇			HNW
174655 2003 <i>SZ</i> ₁₉₄	4.638	0.39	2 W	179604 2002 <i>NO</i> ₄₇	31.426	0.54	2 W
174656 2003 <i>SD</i> ₁₉₅	5.370	0.57	2 W	179738 2002 <i>RB</i> ₁₁₈	7.401	0.36	2 W
174671 2003 <i>SW</i> ₂₅₁	4.434	0.39	2 W	179800* 2002 <i>TN</i> ₃₈			HNW

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Planet	Period	Variation	Note	Planet	Period	Variation	Note
179806 2002 <i>TD</i> ₆₆	9.455	1.16	3- T0	183392* 2002 <i>XU</i> ₇₂	2.32	0.18	1 W
179851* 2002 <i>TP</i> ₂₅₃			HNW	183460 2003 <i>BT</i> ₅₂	187.139	0.48	2 W
179883 2002 <i>UE</i> ₁₆	34.	0.6	1+ W	183532* 2003 <i>GC</i> ₂₇	5.08	0.84-0.85	3- W
179924 2002 <i>VM</i> ₅₉	2.196	0.13	1 W	183581 2003 <i>SY</i> ₈₄	260.	0.87	2 T?
179938 2002 <i>VK</i> ₈₈	15.603	0.10	1 W	183597* 2003 <i>UT</i> ₁₄	9.578	0.57-0.95	2 W
179943 2002 <i>VA</i> ₁₀₆	2.246	0.10	1 W	183609 2003 <i>UV</i> ₁₆₀	5.39	0.70	2 W
179973* 2002 <i>XZ</i> ₃₆	4.87	0.71	3- W	183705* 2003 <i>YR</i> ₅₀			HNW
180002 2002 <i>YD</i> ₄	5.506	0.39	2 W	183708 2003 <i>YF</i> ₅₂	6.519	0.77	2 W
180016 2003 <i>AW</i> ₁	14.474	0.55	2 W	183712 2003 <i>YY</i> ₆₁	39.546	0.56	2 W
180022 2003 <i>AD</i> ₁₆	4.182	0.42	2 W	183785* 2004 <i>BG</i> ₂₉	5.42	0.59	2 W
180095 2003 <i>EA</i> ₄₆	3.942	0.44	2 W	183870 2004 <i>CQ</i> ₃₆	10.917	0.73	2 W
180201 2003 <i>ST</i> ₂₅₁	6.631	0.75	2 W	183944* 2004 <i>DS</i> ₃₄	6.396	0.66-0.67	2 W
180203 2003 <i>SU</i> ₂₅₉	5.25	0.26	2 W	184132* 2004 <i>JN</i> ₁₄	4.16	0.33	2- W
180257 2003 <i>WM</i> ₃	52.981	0.87	2 W	184135 2004 <i>JA</i> ₁₇	32.053	0.22	2 W
180266 2003 <i>WQ</i> ₃₄	5.638	0.64	2 W	184175 2004 <i>NT</i> ₂₈	9.857	0.71	2 W
180295 2003 <i>WQ</i> ₁₂₀	6.158	0.08	1 W	184222 2004 <i>RA</i> ₆₈	6.808	0.47	2 W
180318 2003 <i>XE</i> ₁₂	53.668	0.64	2 W	184237 2004 <i>RM</i> ₂₀₆	7.532	0.70	2 W
180355 2003 <i>YK</i> ₇₈	4.337	0.57	2 W	184266 2004 <i>VW</i> ₁₄	2.5009	0.14	N
180380 2003 <i>YO</i> ₁₃₉	9.990	0.43	2 W	184292 2005 <i>EK</i>	4.34	0.45	2 W
180408* 2004 <i>BV</i> ₃₆	3.04	0.32	1+ W	184349* 2005 <i>JV</i>			HNW
180448* 2004 <i>BQ</i> ₁₂₄			HNW	184384* 2005 <i>LA</i> ₁₈	6.063	0.41-0.56	2 W
180511 2004 <i>DC</i> ₁₀	13.288	0.25	2 W	184483 2005 <i>OX</i> ₁₄	6.998	0.63	2 W
180514 2004 <i>DB</i> ₂₁	4.095	0.24	2 W	184519 2005 <i>QU</i> ₁₀	16.197	1.00	2 W
180572* 2004 <i>ER</i> ₁₀₂	5.27	0.91	2 W	184583 2005 <i>QY</i> ₁₁₃	4.666	0.49	2 W
180628 2004 <i>FE</i> ₁₃₇	25.918	0.62	2 W	184616 2005 <i>RE</i> ₁₁	375.355	0.86	2 W
180733 2004 <i>JH</i> ₄₂	9.418	0.64	2 W	184632* 2005 <i>SO</i> ₉	5.622	0.32-0.49	2 W
180919 2005 <i>LU</i> ₁₄	57.756	0.64	2 W	184696 2005 <i>SO</i> ₁₁₁	4.388	0.37	2 W
180962 2005 <i>MW</i> ₃₅	147.427	0.43	2 W	184736* 2005 <i>SV</i> ₂₀₄			HNW
181044 2005 <i>PE</i> ₁	27.940	0.37	2 W	184973 2005 <i>YN</i> ₈	5.330	0.50	2 W
181050 2005 <i>PB</i> ₅	12.827	0.61	2 W	184990 2006 <i>KE</i> ₈₉	5.187	0.28	2 W
181170* 2005 <i>SV</i> ₇₇			HNW	185077* 2006 <i>RL</i> ₇₁	4.53	0.67	3- W
181289 2006 <i>OF</i> ₁₇	6.887	0.63	2 W	185085 2006 <i>RG</i> ₉₂	220.	0.4	1 W
181290 2006 <i>OU</i> ₂₀	2.24	0.2	1 W	185086* 2006 <i>RP</i> ₉₂	9.076	0.90-0.97	2 W
181292 2006 <i>PR</i> ₁₀	8.373	0.47	2 W	185090* 2006 <i>RQ</i> ₉₇			HNW
181293 2006 <i>PB</i> ₁₂	6.160	0.60	2 W	185199 2006 <i>TB</i> ₂₅	7.74	0.44	2 W
181333 2006 <i>QX</i> ₁₁₃	10.879	0.82	2 W	185213* 2006 <i>TN</i> ₅₃	5.48	0.55	1 DAW
181355 2006 <i>RY</i> ₄₂	6.054	0.22	1 W	185225 2006 <i>TV</i> ₇₄	9.06	0.74	2 W
181464 2006 <i>TL</i> ₅₄	4.628	0.10	1 W	185360* 2006 <i>VZ</i> ₈₈	5.65	0.97	2 W
181570 2006 <i>VZ</i> ₂₁	10.43	0.64	2 W	185362 2006 <i>VG</i> ₉₆	11.661	0.65	2 W
181600 2006 <i>WN</i> ₃₄	4.230	0.53	2 W	185438 2006 <i>XW</i> ₄₇	5.007	0.39	2 W
181826 1998 <i>SP</i> ₄₉	2.984	0.06	1 W	185492 2007 <i>HA</i> ₈	295.352	0.67	2 W
181855 1998 <i>WT</i> ₃₁		>0.05	N	185506 2007 <i>TJ</i> ₃₁₅	10.00	0.92	2 W
181856 1998 <i>XV</i> ₃	43.703	0.27	2 W	185570 2008 <i>AA</i> ₇₈	9.14	0.74	2 W
181880* 1999 <i>PE</i> ₇	4.47	0.61	2- W	185591 2008 <i>BP</i> ₃₅	2.788	0.39	2 W
181882 1999 <i>RF</i> ₁₄	2.5	0.20	1 T?	185704* 1998 <i>OD</i> ₈	7.964	0.78-0.85	2 W
181895 1999 <i>RM</i> ₁₅₅	2.711	0.08	1 W	185756 1999 <i>TM</i> ₉	5.077	0.33	2 W
181946 1999 <i>TM</i> ₂₀₃	14.250	0.68	2 W	185773 1999 <i>TO</i> ₂₃₂	4.156	0.30	2 W
181966 1999 <i>UA</i> ₄₂	2.24	0.43	2 W	185814 1999 <i>XH</i> ₆₂	34.656	0.27	2 W
182178 2000 <i>SR</i> ₂₈₂		1.25	I	185823 2000 <i>AA</i> ₂₈	8.574	0.84	2 W
182213* 2000 <i>WU</i> ₁₂₂	2.70	0.29	3- W	185831* 2000 <i>AO</i> ₂₁₉			HNW
182220 2000 <i>XP</i> ₂₉	35.691	0.32	2 W	185843* 2000 <i>CW</i> ₁₁₃	13.52	0.22	2 W
182297 2001 <i>MH</i> ₁₄	43.767	0.85	2 W	185851* 2000 <i>DP</i> ₁₀₇	2.7754	0.13-0.19	3 p B
182303* 2001 <i>NR</i> ₂₂			HNW	185854 2000 <i>EU</i> ₁₀₆	3.505	0.46-0.55	3 W
182329 2001 <i>PH</i> ₁₅	51.543	0.88	2 W	185877 2000 <i>OB</i> ₈	2.076	0.06	1 W
182380 2001 <i>QR</i> ₂₃₀	8.196	0.86	2 W	185943 2000 <i>YP</i> ₉₈	4.92	0.24	2 W
182420 2001 <i>RQ</i> ₉₉	4.148	0.17	2 W	185951 2001 <i>DE</i> ₈	2.30	0.41	2 W
182445 2001 <i>SD</i> ₃₀		1.66	I	185955* 2001 <i>DX</i> ₅₅			HNW
182464 2001 <i>SH</i> ₈₈	4.580	0.73	2 W	186047* 2001 <i>SA</i> ₁₈			HNW
182538 2001 <i>TO</i> ₃₉	4.811	0.54	2 W	186052* 2001 <i>SX</i> ₅₁			HNW
182644 2001 <i>UH</i> ₁₆₂	6.284	0.61	2 W	186080 2001 <i>SO</i> ₂₃₀	8.302	0.90	2 W
182703 2001 <i>VD</i> ₁₂₄	4.915	0.74	2 W	186109 2001 <i>TH</i> ₈₀	4.220	0.46	2 W
182711 2001 <i>WZ</i> ₁₆	4.840	0.89	2 W	186172 2001 <i>UR</i> ₁₅₀	60.050	0.96	2 W
182756 2001 <i>XZ</i> ₁₄₈	2.774	0.08	1 W	186189 2001 <i>VM</i> ₅₄	16.196	0.26	2 W
182933* 2002 <i>GZ</i> ₃₁			HNW	186287 2002 <i>AU</i> ₁₈₇	4.333	0.65	2 W
182953 2002 <i>HN</i> ₁₇	11.858	0.50	2 W	186321 2002 <i>CZ</i> ₂₇₄	3.248	0.40	2 W
182967 2002 <i>LK</i> ₂₂	34.175	0.08	1 W	186449 2002 <i>SA</i> ₄₃	5.489	0.83	2 W
183019* 2002 <i>PG</i> ₉₆			HNW	186454* 2002 <i>SU</i> ₅₅	6.178	0.71-0.78	2 W
183050 2002 <i>QV</i> ₇₀	39.635	0.78	2 W	186468 2002 <i>TO</i> ₄₂	11.118	0.38	2 W
183102* 2002 <i>RM</i> ₁₁₀			HNW	186490 2002 <i>TB</i> ₂₂₂	5.05	0.83	2 W
183122 2002 <i>RX</i> ₁₇₄	3.990	0.40	2 W	186496* 2002 <i>TY</i> ₂₉₉			HNW
183130 2002 <i>RR</i> ₂₀₁	3.60	0.37	2 W	186529 2002 <i>VO</i> ₆₇	5.026	0.58	2 W
183219 2002 <i>TN</i> ₃₇	3.481	0.10	1+ W	186530 2002 <i>VX</i> ₇₈	5.322	0.75	2 W
183222 2002 <i>TN</i> ₄₁	2.482	0.08	1 W	186538 2002 <i>VP</i> ₁₀₉	2.227	0.08	1 W
183263 2002 <i>TG</i> ₂₁₅	49.831	0.56	2 W	186546 2002 <i>XL</i> ₆	9.870	0.46	2 W
183282 2002 <i>TM</i> ₂₈₃	3.654	0.23	2 W	186649 2003 <i>TK</i> ₁₅		1.5	I
183298 2002 <i>UB</i> ₁₄	2.7985	0.20	1 W	186652* 2003 <i>UY</i> ₁₀₆	5.22	0.95	2 W
183300 2002 <i>UH</i> ₁₉	294.817	0.64	2 W	186720* 2004 <i>BN</i> ₁₀₆			HNW
183303 2002 <i>UU</i> ₃₃	6.006	0.48	2 W	186772* 2004 <i>DQ</i> ₂₀	5.52	0.43-0.52	2 W
183371* 2002 <i>XP</i> ₂₀	3.381	0.47-0.48	2 W	186859 2004 <i>GW</i> ₅₆	54.724	0.38	2 W
183376 2002 <i>XM</i> ₃₀	6.689	0.53	2 W	186865 2004 <i>HO</i> ₂₄	177.847	0.54	2 W

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Planet	Period	Variation	Note	Planet	Period	Variation	Note
187060 2005 <i>MX</i> ₂₆	8.125	0.78	2 W	190631* 2000 <i>WT</i> ₁₂₉			HNW
187067* 2005 <i>MX</i> ₄₁	9.28	0.90	1 DAW	190637 2000 <i>WE</i> ₁₅₅	9.35	0.9	2
187254 2005 <i>SL</i> ₂₃₇	6.443	0.64	2 W	190650 2000 <i>XN</i> ₄₀	16.606	0.21	2 W
187267* 2005 <i>TA</i> ₃₂			HNW	190658 2000 <i>YA</i> ₄₄	6.27	0.26	2 W
187337* 2005 <i>UW</i> ₁₀₈	6.15	0.94	2- W	190663 2000 <i>YF</i> ₈₈	14.55	0.48	2 W
187427 2005 <i>WH</i> ₆	7.859	0.31	2 W	190697* 2001 <i>FQ</i> ₁₆	4.66	0.90	1+ W
187463 2005 <i>XX</i> ₁₀₆	4.84	0.06	2	190951 2001 <i>VU</i> ₆₂		1.05	W
187572 2006 <i>VV</i> ₁₄₂	10.057	0.71	2 W	190978 2001 <i>XD</i> ₁₀₁	12.30	0.58	2- W
187610 2006 <i>YK</i> ₃₇	82.044	0.09	1 W	190991 2001 <i>XQ</i> ₂₃₈		0.53	W
187667* 2008 <i>BZ</i> ₃₈	6.49	0.92	2 W	191029 2002 <i>BR</i>	2.71	0.20	2 W
187757 1996 <i>UH</i> ₄	28.996	0.33	2 W	191044 2002 <i>CQ</i> ₃₁	2.875	0.24	2 W
187820 1999 <i>TP</i> ₂₅₃	11.237	0.60	2 W	191111* 2002 <i>EU</i> ₇₁	11.43	0.97	2- W
187834 1999 <i>VM</i> ₁₂₁	9.4	0.20	2- W	191132* 2002 <i>GK</i> ₂₃			HNW
187926* 2001 <i>BH</i> ₃₁	2.695	0.14-0.17	2 W	191145 2002 <i>GH</i> ₁₁₉	6.152	0.61	2 W
187931 2001 <i>DN</i> ₁₀₇	4.95	0.64	2 W	191530* 2003 <i>UX</i> ₁₉₇	1.78	0.56	2 W
187974 2001 <i>QV</i> ₁₁₈	16.578	0.38	2 W	191589 2004 <i>FQ</i> ₅	5.047	0.46	3
187975 2001 <i>QQ</i> ₁₅₅	2.89	0.69	2 W	191608 2004 <i>HP</i> ₁₀	6.210	0.63	2 W
187989* 2001 <i>RF</i> ₁₀₁			HNW	191658 2004 <i>PG</i> ₉₁	3.689	0.12	2 W
188039 2001 <i>UG</i> ₁₇₄	10.121	0.49	2 W	191675* 2004 <i>RP</i> ₃₈			HNW
188077 2001 <i>XW</i> ₄₇	525.	0.3	2- T0	191755 2004 <i>SQ</i> ₅₄	5.242	0.43	2 W
188162 2002 <i>GK</i> ₁₀₉	5.813	0.51	2 W	191773* 2004 <i>TM</i> ₇₃			HNW
188174 2002 <i>JC</i>	2.472	0.26-0.40	3 A	191789* 2006 <i>CK</i> ₁₃₂	10.60	0.50	1+ DAW
188181 2002 <i>JH</i> ₁₀₈	7.221	0.52	2 W	191799 2004 <i>TL</i> ₂₀₅	5.305	0.69	2 W
188189 2002 <i>PL</i> ₈₄	7.615	0.64	2 W	191865* 2004 <i>XQ</i> ₂₈	9.42	0.70	1 DAW
188216* 2002 <i>TS</i> ₃₇	31.3	0.48	2	191870* 2004 <i>XT</i> ₇₆	5.52	0.98	1+ AW
188228 2002 <i>TH</i> ₂₆₇	>10.	>0.2	N	192002 2005 <i>XB</i> ₁₁₇	4.910	0.62	2 W
188291* 2003 <i>BV</i> ₆₇			HNW	192109 2006 <i>CK</i> ₃₉	3.736	0.34	2 W
188368 2004 <i>BS</i> ₇₈	7.645	0.68	2 W	192112 2006 <i>CX</i> ₅₆	5.354	0.51	2 W
188449* 2004 <i>HV</i> ₄₁	8.21	0.42	2- W	192123* 2006 <i>DJ</i> ₅₉			HNW
188540 2004 <i>RZ</i> ₃₂₀	9.472	0.31	2 W	192131* 2006 <i>DD</i> ₁₁₆	9.584	0.43-0.45	2 W
188590* 2005 <i>OW</i> ₁₅	7.362	0.55-0.60	2 W	192221 2007 <i>RQ</i> ₂₇₈		1.21	I
188626 2005 <i>QV</i> ₄₅	9.238	0.35	2 W	192223* 2007 <i>VM</i> ₆	10.03	0.70	2+ W
188645 2005 <i>RL</i> ₃₃	4.97	0.76	2 W	192224 2007 <i>VO</i> ₆	5.82	0.39	2 W
188805 2005 <i>WT</i> ₈₈	5.820	0.32	2 W	192283 1981 <i>EE</i> ₃	7.349	0.71	2 W
188892 2006 <i>XM</i> ₁₉	64.703	0.91	2 W	192309 1993 <i>TK</i> ₂₆	383.288	0.80	2 W
188967 2008 <i>CW</i> ₁₅₃	40.506	0.55	2 W	192389 1996 <i>RT</i> ₂₉		0.94	I
189008 1996 <i>FR</i> ₃	5.36	0.57	3- W	192390 1996 <i>RO</i> ₃₀	5.65	0.30	2 W
189023 1999 <i>NV</i> ₁₉	2.113	0.08	1 W	192451 1997 <i>WQ</i> ₄₂	5.39	0.23	2 W
189039 2000 <i>LA</i> ₂₅	12.875	0.28	2 W	192534 1998 <i>SN</i> ₈₀	8.42	0.73	2- W
189099 2001 <i>RO</i>	5.7161	0.09-0.10	3	192552 1998 <i>TP</i> ₂₆	6.283	0.72	2 W
189101* 2001 <i>RW</i> ₁₁₂			HNW	192591 1999 <i>CE</i> ₈	4.59	0.80	2 W
189187 2003 <i>EY</i> ₂₄	19.243	0.77	2 W	192642 1999 <i>RD</i> ₃₂	17.08	0.28	2 W
189218 2004 <i>DC</i> ₃₇	41.2	0.19	2- W	192651* 1999 <i>RS</i> ₈₀	4.73	0.58-0.60	2 W
189265 2005 <i>GN</i> ₁₇₉	4.908	0.60	3	192665 1999 <i>RS</i> ₁₈₁	5.45	0.55	2 W
189296 2005 <i>UT</i> ₄₀₇	15.54	0.89	2+ W	192683 1999 <i>SO</i> ₂₇	13.17	0.14	2- A
189427 1997 <i>TE</i> ₅	8.14	0.62	2 W	192692 1999 <i>TH</i> ₄₁	5.39	0.40	2 W
189473 1999 <i>TK</i> ₂₁₉	17.599	0.45	2 W	192724 1999 <i>TF</i> ₁₅₇	7.437	0.56	2 W
189545 2000 <i>RT</i> ₃₆	3.259	0.22	2 W	192765 1999 <i>TV</i> ₃₁₃	3.351	0.32	2 W
189597 2000 <i>WG</i> ₁₁₉	14.060	0.42	2 W	192767* 1999 <i>TV</i> ₃₁₉	7.768	0.76-0.80	2 W
189611 2000 <i>YE</i> ₄₉	50.457	0.50	2 W	192769 1999 <i>TF</i> ₃₂₁	20.370	0.76	2 W
189700 2001 <i>TA</i> ₄₅	5.010	0.27	2	192775* 1999 <i>UE</i> ₁₆	3.987	0.50-0.53	2 W
189740 2001 <i>XA</i> ₈₀	9.32	0.37	2 W	192802 1999 <i>VO</i> ₁₆	6.193	0.96	2 W
189741 2001 <i>XG</i> ₉₇	44.349	0.10	1 W	192861 1999 <i>VO</i> ₂₂₀	14.725	0.32	2 W
189772 2002 <i>CQ</i> ₇₈	5.96	0.70	2 W	192869* 1999 <i>XB</i> ₁₄	3.90	0.35-0.40	2 W
189796 2002 <i>GL</i> ₂	27.336	0.48	2 W	192929 2000 <i>AT</i> ₄₄	7.027	0.68	2 W
189845 2003 <i>EA</i> ₁₂	53.594	0.71	2 W	192940* 2000 <i>AG</i> ₂₀₆	6.064	0.46-0.69	2 W
189855 2003 <i>GQ</i> ₉	10.812	0.51	2 W	192964 2000 <i>CF</i> ₁₂₇	6.230	0.12	2 W
190007 2004 <i>LM</i> ₁₃	5.19	0.68	2 W	193003* 2000 <i>EO</i> ₂	5.45	0.46	2 W
190091 2004 <i>TU</i> ₁₃₅	5.575	0.85	2 W	193008* 2000 <i>EH</i> ₁₆	5.85	0.66-0.93	3- W
190113* 2004 <i>UX</i> ₂	5.52	0.64	2 W	193061* 2000 <i>GP</i>	4.68	0.37	1+ W
190135 2005 <i>QE</i> ₃₀		0.45	N	193199 2000 <i>QL</i> ₁₃₉	5.78	0.41	2 W
190166 2005 <i>UP</i> ₁₅₆	40.5	0.79	2	193212 2000 <i>QE</i> ₂₂₄		0.54	W
190186* 2005 <i>WM</i> ₃₁	15.170	0.20-0.27	2 W	193291 2000 <i>SU</i> ₂₃₆		1.2	I
190208 2006 <i>AQ</i>	182.	0.25	3- B?	193308 2000 <i>SG</i> ₃₀₀	7.11	0.73	2 W
190254* 2007 <i>GR</i> ₄₄	3.28	0.30	1+ W	193313 2000 <i>SR</i> ₃₀₈	157.002	0.52	2 W
190255 2007 <i>HG</i>	4.405	0.26	2 W	193369 2000 <i>UH</i> ₇₃	4.694	0.26	2 W
190277* 6227 <i>P-L</i>			HNW	193379 2000 <i>VP</i> ₁₉	3.24	0.15	2 W
190289 1994 <i>PR</i> ₁₅	3.765	0.56	2 W	193385 2000 <i>VC</i> ₃₀	5.47	0.40	1
190395 1999 <i>TR</i> ₁₀₉	126.015	0.53	2 W	193397 2000 <i>WQ</i> ₉	6.405	0.78	2 W
190412 1999 <i>TN</i> ₂₆₇	10.435	0.84	2 W	193449* 2000 <i>WW</i> ₁₄₆	38.44	0.20	3
190413 1999 <i>TN</i> ₂₈₄	36.795	0.43	2 W	193467* 2000 <i>XK</i> ₁₇	6.49	0.44-0.50	2 W
190425* 1999 <i>VM</i> ₁₃₇	6.00	0.81	3- W	193470* 2000 <i>XU</i> ₁₉	2.715	0.23-0.28	2 W
190428 1999 <i>VS</i> ₁₅₉	61.792	0.52	2 W	193476 2000 <i>XR</i> ₃₁	14.006	0.42	2 W
190453* 2000 <i>AQ</i> ₂₃₅	6.76	0.96	1 DAW	193477* 2000 <i>XO</i> ₃₆	5.412	0.51-0.54	2 W
190491 2000 <i>FJ</i> ₁₀	>2.	0.02-0.44		193478 2000 <i>XN</i> ₃₇	5.073	0.79	2 W
190564* 2000 <i>SU</i> ₁₂₈	15.254	0.58-0.60	2 W	193505 2000 <i>YP</i> ₃₆	2.95	0.09	2 W
190580 2000 <i>SB</i> ₂₉₅	2.73	0.35	2 W	193514* 2000 <i>YA</i> ₅₅			HNW
190584 2000 <i>SH</i> ₃₁₁	5.36	0.49	2 W	193529 2000 <i>YV</i> ₈₆	4.00	0.19	2 W
190620 2000 <i>WC</i> ₃₉	6.19	0.69	2 W	193577 2001 <i>BY</i> ₁	5.96	0.51	2 W
190629 2000 <i>WT</i> ₁₁₄	5.71	0.71	2 W	193602 2001 <i>BL</i> ₇₀	9.555	0.32	2 W

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Planet				Period	Variation	Note	Planet				Period	Variation	Note
193622	2001	CR ₂₅		12.80	0.27	2 W	197505	2004	BG ₁₂₀		10.664	0.69	2 W
193626	2001	CV ₃₁		5.392	0.28	2 W	197518	2004	CJ ₁₀₆		6.15	0.48	2 W
193644	2001	DL ₂₂		5.415	0.38	2 W	197519	2004	DF ₁		4.871	0.75	2 W
193648	2001	DT ₃₀		4.994	0.48	2 W	197558	2004	FL ₁₂₂			1.0	I
193656	2001	DK ₄₅			0.63	W	197570*	2004	GZ ₂₉				HNW
193659	2001	DX ₅₃		3.23	0.18	2 W	197712	2004	PS ₃			0.86	W
193667	2001	DU ₆₄		3.725	0.48	2 W	197715	2004	PS ₇		5.13	0.85	2 W
193668	2001	DJ ₆₆		4.584	0.30–0.44	2 W	197868	2004	RQ ₆		4.68	0.95	2 W
193682	2001	EH ₁₄		7.760	0.41	2 W	198087	2004	ST ₂₄		9.540	0.72	2 W
193711	2001	FC ₈₃		6.836	0.79	2 W	198112	2004	TM ₁		15.314	0.62	2 W
193731	2001	FY ₁₆₂		14.232	0.72	2 W	198128	2004	TS ₂₅		5.215	0.73	2 W
194164	2001	TE ₂₃		27.712	0.52	2 W	198184	2004	TU ₁₀₉		4.27	0.15	2 W
194266	2001	UV ₁		35.223	0.67	2 W	198360	2004	VX ₁₂		28.653	0.23	2 W
194268	2001	UY ₄		7.88	0.13	2 A	198409	2004	VF ₆₂		15.972	0.39	2 W
194386	2001	VG ₅		6.38	0.38–0.7	3	198468	2004	XE ₂₄		6.81	0.70	2 W
194400	2001	VO ₂₄		42.296	0.86	2 W	198479	2004	XD ₃₉		15.818	0.43	2 W
194458	2001	VX ₁₂₄		6.52	1.35	2 W	198480	2004	XW ₄₀		4.766	0.06	1 W
194473	2001	WQ ₂₁		6.5	0.10	2–	198536	2004	XW ₁₁₀		66.055	0.65	2 W
194547	2001	XT ₆₇		4.92	0.76	2 W	198539*	2004	XJ ₁₂₁				HNW
194912	2002	AG ₁₁₄		12.68	1.0	2 W	198570*	2004	XW ₁₇₁		2.54	0.48	1+
194968*	2002	AQ ₁₇₈		21.206	0.83–0.84	2 W	198580*	2004	YV ₁₁				HNW
195079	2002	CL ₁₀₇			>0.1	W	198582	2004	YT ₁₃		233.131	0.95	2 W
195098*	2002	CE ₁₂₅		2.62	0.26–0.34	2 W	198588	2004	YP ₃₂		70.207	0.39	2 W
195099	2002	CF ₁₂₆		6.799	0.53	2 W	198592	2004	Antbernal		>12.	>0.1	2–
195123	2002	CG ₁₅₇		2.98	0.46	2 W	198605	2005	AM ₁₉		160.768	0.38	2 W
195161*	2002	CA ₂₂₆		6.08	0.46	2 W	198611	2005	AJ ₂₄		5.097	0.30	2 W
195207	2002	DN ₂			0.50	W	198614	2005	AO ₂₆		9.136	0.59	2 W
195222	2002	DL ₁₄		3.867	0.61	2 W	198675	2005	CY ₂		12.97	0.40	2 W
195227	2002	DH ₁₈		5.03	0.72	1+	198695*	2005	CX ₂₂				HNW
195241*	2002	EM ₂₂		31.695	0.35–0.40	2 W	199003	2005	WJ ₅₆		4.379	0.09–0.15	3
195475	2002	GQ ₁₂₆		3.65	0.48	2 W	199091	2005	YF ₁₀		6.76	0.49	2 W
195602	2002	KN ₁		10.91	0.46	2 W	199248	2006	AM ₁₀₀		5.332	0.42	2 W
195670	2002	OZ ₉		39.226	0.32	2 W	199283	2006	BW ₄₆		6.40	0.44	2 W
195700	2002	PY ₂₆		5.066	0.41	2 W	199327*	2006	BR ₁₂₈				HNW
195704	2002	PH ₃₅		10.294	0.36	2 W	199481	2006	DO ₇₄		7.469	0.51	2 W
195706	2002	PO ₃₆		7.311	0.53	2 W	199588*	2006	FO ₁₆		5.75	0.41	3–
195710	2002	PA ₄₇		2.842	0.25	2 W	199788	2006	LU ₃		39.014	0.47	2 W
195712	2002	PD ₄₉		44.752	0.33	2 W	199852*	2007	EB ₈₀		4.703	0.55–0.59	2 W
195817*	2002	QL ₁₉		4.66	0.63–0.90	2+	199978	2007	JZ ₁		57.	0.44	2
195905	2002	RB ₅₅		16.999	0.34	2 W	200028	2007	PW ₂₈		7.19	0.27	2+
195930	2002	RO ₁₁₃		5.501	0.33	2 W	200032	2007	PU ₄₃		132.	1.8	1+
195957	2002	RJ ₁₆₅		144.994	0.31	2 W	200157*	1998	ST ₄₀				HNW
196022	2002	SQ ₅		6.466	0.56	2 W	200192	1999	RT ₁₁₉		3.05	0.26	2 W
196070	2002	TA ₆₅		3.896	0.26	2 W	200256	1999	VQ ₂₂₅		5.96	0.25	2 W
196073	2002	TQ ₇₄		6.679	0.37	2 W	200277*	1999	XY ₂₁₇		6.441	0.26–0.31	2 W
196076	2002	TL ₇₇		7.202	0.47	2 W	200284	1999	YE ₁₂		15.562	0.84	2 W
196118	2002	TY ₁₇₃		8.393	0.56	2 W	200296	2000	AV ₂₁₈		5.33	0.77	2 W
196127	2002	TP ₂₀₆		7.919	0.44	2 W	200302*	2000	CW ₇₈				HNW
196143	2002	TZ ₂₇₀		6.132	0.71	2 W	200406	2000	SK ₇₄		3.388	0.48	2 W
196155	2002	UJ ₅₁		9.276	0.71	2 W	200481	2000	YX ₁₇		113.580	1.11	2 W
196214*	2003	BD ₃₇		6.8	0.56–0.75	2 W	200596	2001	RX ₇₀		2.742	0.64	2 W
196325*	2003	FL ₄₇		9.579	0.56–0.62	2 W	200647	2001	SF ₃₂₇		6.3	0.80	2 W
196444*	2003	HQ ₃₇		4.498	0.51–0.62	2 W	200730	2001	VV ₅₃		11.864	0.46	2 W
196467	2003	JX ₈		5.506	0.55	2 W	200754	2001	WA ₂₅		3.653	0.31	2+
196539	2003	OA ₃₀		7.834	0.51	2 W	200772	2001	XJ ₂₃		8.9	0.66	2–
196546	2003	PT ₁₁		6.739	0.31	2 W	200852	2001	YD ₃₅		2.67	0.34	2 W
196582*	2003	QS ₄₆				HNW	200972	2002	CT ₉₄		5.417	0.97	2 W
196616	2003	QE ₁₀₈		5.162	0.78	2 W	201006*	2002	CH ₁₈₅		30.4	0.19	2 W
196667	2003	SN ₅₀		4.82	0.28	2 W	201023	2002	CZ ₂₆₄		9.90	0.63	2 W
196698	2003	SV ₇₇		3.9	0.27	N	201092	2002	GK ₉₄		18.055	0.59	2 W
196707*	2003	SB ₈₉				HNW	201187	2002	PK ₇₀		107.127	0.44	2 W
196745*	2003	SY ₁₃₉		3.50	0.56	2 W	201198	2002	PD ₁₂₃		7.386	0.78	2 W
196806	2003	SQ ₂₁₈		3.260	0.30	2 W	201236	2002	RG ₂₄		4.87	0.33	2 W
196848	2003	SQ ₂₅₉			>0.1	W	201248	2002	RK ₉₄		8.380	0.34	2 W
196905*	2003	TH ₁₇		2.87	0.78	2 W	201258	2002	RZ ₁₃₈		35.453	0.19	2 W
196974	2003	UC ₆₄		2.745	0.31	2 W	201263	2002	RP ₁₆₀		4.547	0.81	2 W
196987	2003	UO ₈₁		>12.	>0.05	1 W	201297*	2002	SK ₆₀		8.42	0.83	2–
197087*	2003	UG ₁₈₂		6.15	0.72	3–	201310	2002	TJ ₉₁		2.837	0.13	2 W
197136*	2003	UZ ₂₄₀		4.05	0.51	2 W	201320	2002	TC ₁₁₉		5.468	0.31	2 W
197155*	2003	UJ ₂₇₂		6.40	0.62	1 DAW	201336	2002	TU ₁₆₆		5.522	0.51	2 W
197166	2003	UG ₂₇₇		7.93	0.54	2 W	201369*	2002	TA ₂₇₈		5.275	0.74–0.77	2 W
197299	2003	WH ₁₂₈		101.769	0.60	2 W	201370	2002	TY ₂₉₀		93.971	0.79	2 W
197309	2003	WS ₁₄₀		200.733	0.41	2 W	201377	2002	UN ₁₅		19.787	0.42	2 W
197361	2003	XN ₁₈		4.424	0.58	2 W	201386	2002	VN ₉		9.539	0.52	2 W
197362*	2003	XR ₁₉		12.31	0.73	1+	201392	2002	VC ₄₁		9.100	0.89	2 W
197388	2003	YN ₁₁		14.9	0.65	2–	201435*	2003	BQ ₈₉				HNW
197396*	2003	YK ₂₇		4.95	0.32	2 W	201528	2003	QL ₂₀		4.596	0.49	2 W
197402*	2003	YN ₃₄		3.90	0.45–0.78	2 W	201556*	2003	RZ ₁₈		6.81	0.70–0.80	2 W
197411*	2003	YU ₄₉		7.27	0.73	2 W	201581	2003	SS ₈₀		9.41	0.55	2 W
197504	2004	BS ₁₁₇		6.375	0.37	2 W	201583	2003	SJ ₈₇		7.967	0.44	2 W

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Planet				Planet			
Planet	Period	Variation	Note	Planet	Period	Variation	Note
201689 2003 <i>UO</i> ₁₁₆	5.75	0.26	2 W	205472 2001 <i>QS</i> ₁₅₂	10.472	0.34	2 W
201710* 2003 <i>UO</i> ₁₆₇	114.561	0.60–0.75	2 W	205492* 2001 <i>QM</i> ₂₆₇			HNW
201719 2003 <i>UD</i> ₁₈₉	13.33	0.89	2 W	205594 2001 <i>TT</i> ₁₉₉	8.436	0.68	2 W
201726 2003 <i>UH</i> ₁₉₅	44.630	0.62	2 W	205665* 2001 <i>XU</i> ₁₇₄	5.75	0.57	2 W
201731 2003 <i>UY</i> ₂₂₅	3.3	0.30	2– W	205706* 2002 <i>AE</i> ₃₅	33.1	0.82	2+ W
201746 2003 <i>UN</i> ₂₇₆	138.782	0.83	2 W	206130 2002 <i>SJ</i> ₅₂	14.121	0.57	2 W
201751* Steinhardt			HNW	206156* 2002 <i>TX</i> ₁₇₀	5.89	0.40	1+ W
201758 2003 <i>WC</i> ₂₆	8.50	0.68	2 W	206234* 2002 <i>WC</i> ₄			HNW
201784* 2003 <i>WS</i> ₁₁₃	4.36	0.63	2 W	206237* 2002 <i>WG</i> ₁₅	3.368	0.19–0.23	2 W
201838 2003 <i>YM</i> ₆₆	9.378	0.63	2 W	206240 2002 <i>WC</i> ₂₇	8.07	0.74	2 W
201845 2003 <i>YB</i> ₈₅	7.789	0.68	2 W	206245* 2002 <i>XU</i> ₁₇	5.049	0.54–0.60	2 W
201873 2003 <i>YU</i> ₁₆₂	6.436	0.67	2 W	206342 2003 <i>PQ</i> ₆	4.823	0.71	2 W
201879 2004 <i>AC</i> ₁	8.563	0.53	2 W	206378 2003 <i>RB</i>	37.5	0.2 –0.43	2 T?
202080 2004 <i>SR</i> ₄₀	2.976	0.32	2 W	206400 2003 <i>SW</i> ₅₂	4.1	0.37	1+ W
202238 2005 <i>AC</i> ₂	5.63	0.40	2 W	206452 2003 <i>SA</i> ₃₀₉	4.211	0.23	2 W
202264 2005 <i>AB</i> ₆₁	6.76	0.15	2 W	206619 2003 <i>WS</i> ₁₁₇	5.90	0.85	2 W
202321 2005 <i>EG</i> ₅₅	3.458	0.59	2 W	206638* 2003 <i>WA</i> ₁₉₀	10.587	0.41–0.47	2 W
202327* 2005 <i>ER</i> ₇₅	6.32	0.76	2 W	206698 2004 <i>AD</i> ₁₃	3.44	0.52	2 W
202397* 2005 <i>JS</i> ₁₈	12.31	>0.6	1 W	206762 2004 <i>CE</i> ₂₁	6.605	0.68	2 W
202421* 2005 <i>UQ</i> ₅₁₃	7.03	0.06	2– A	206877 2004 <i>FF</i> ₁₃₉	3.65	0.43	2 W
202521 2006 <i>BP</i> ₂₇₄	3.31	0.78	2 W	206952 2004 <i>RE</i> ₃₁₀	7.071	0.20	2 W
202537* 2006 <i>DO</i> ₆₀	3.86	1.11	2 W	206953* 2004 <i>RV</i> ₃₁₀			HNW
202573* 2006 <i>FY</i> ₁₃	6.00	0.96	2 W	207121 2005 <i>AT</i> ₅₈	5.90	0.60	2 W
202640 2006 <i>JW</i> ₁₃	2.49	0.31	2 W	207384 2005 <i>QO</i> ₁₇₃	22.881	0.47	2 W
202745 2007 <i>ND</i>	6.902	0.38	2 W	207398 2006 <i>AS</i> ₂	4.480	0.20	3 W
202770 2007 <i>RW</i> ₂₃₈	11.148	0.56	2 W	207482 2006 <i>HN</i> ₃₁	4.931	0.52	2 W
202858* 2008 <i>TW</i> ₁₁₇	5.926	0.78–0.80	2 W	207582 2006 <i>QE</i> ₉	4.226	0.68	2 W
202908 1996 <i>TH</i> ₁₁	5.308	0.80	3 W	207637 2006 <i>TE</i> ₂₄	5.75	0.41	2 W
202909 Jakoten	7.946	0.28	2 W	207690 2007 <i>RE</i> ₁₉	8.35	0.59	2 W
202981 1999 <i>TR</i> ₂₃₈	60.203	0.41	2 W	207744* 2007 <i>RY</i> ₂₄₇			HNW
203047 2000 <i>EC</i> ₅₂	2.70	0.54	2 W	207758* 2007 <i>SN</i> ₁₉	3.822	0.47–0.48	2 W
203095 2000 <i>RO</i> ₃₇	19.61	0.31	2 A	207932 2008 <i>YW</i> ₁₆	10.67	0.47	2 W
203173 2000 <i>YL</i> ₉₈	2.09	0.47	2– W	207945 1991 <i>JW</i>	3.15	0.17	2– W
203217 2001 <i>FX</i> ₉		0.16–0.26	N	208023 1999 <i>AQ</i> ₁₀	2.67	0.09–0.20	2 W
203222 2001 <i>FH</i> ₈₁	7.28	0.30	2– W	208096 2000 <i>AT</i> ₈₈	8.74	0.75	2 W
203254* 2001 <i>QG</i> ₁₂₉	5.855	0.51–0.62	2 W	208102 2000 <i>BX</i> ₂	5.13	0.81	2 W
203261 2001 <i>QA</i> ₁₈₇	25.398	0.47	2 W	208150* 2000 <i>FJ</i> ₃₄	5.18	0.82–1.38	3– W
203318* 2001 <i>TN</i> ₆₆			HNW	208173 2000 <i>QW</i> ₂₄	180.561	0.82	2 W
203334* 2001 <i>TC</i> ₂₂₆	12.72	0.62	1+ DAW	208190 2000 <i>QY</i> ₁₉₃	3.68	0.64	2 W
203339 2001 <i>UT</i> ₆₀	10.532	0.43	2 W	208398 2001 <i>SD</i> ₂₀₀	9.23	0.41	2 W
203370* 2001 <i>WY</i> ₃₅	8.344	1.40	3 W	208420 2001 <i>SQ</i> ₃₂₄	2.32	0.26	2 W
203395* 2001 <i>XW</i> ₁₄₂	4.44	1.02	2 W	208422 2001 <i>SE</i> ₃₄₀	6.96	0.76	2 W
203471* 2002 <i>AU</i> ₄	13.26	1.32	3– W	208562 2002 <i>BP</i> ₂₉	4.627	0.50	2 W
203630 2002 <i>FR</i> ₂₇	4.536	0.39	2 W	208665 2002 <i>GJ</i> ₁₂	10.11	0.43	2 W
203634 2002 <i>GH</i> ₃	7.572	0.68	2 W	208923 2002 <i>UZ</i> ₁₁	2.212	0.77	2 W
203712 2002 <i>PF</i> ₁₅₉	2.59	0.76	2 W	208982* 2003 <i>AV</i> ₈	8.07	0.73	2 W
203729 2002 <i>QR</i> ₅₃	6.993	0.42	2 W	208993* 2003 <i>AZ</i> ₆₉	7.68	0.30–0.35	2 W
203738 2002 <i>QB</i> ₈₈	2.57	0.43	2 W	208996* 2003 <i>AZ</i> ₈₄	13.42	0.10–0.14	2 AB
203742 2002 <i>QH</i> ₁₁₁	4.10	0.32	2 W	209026 2003 <i>FQ</i> ₂₁	7.22	0.30	2 W
203790 2002 <i>TC</i> ₄₈	28.186	0.41	2 W	209060 2003 <i>QU</i> ₅₀	4.14	0.60	3– W
203810 2002 <i>TY</i> ₁₉₀	34.471	0.44	2 W	209271 2003 <i>XS</i> ₁₂	6.426	0.49	2 W
203811 2002 <i>TB</i> ₁₉₁	4.624	0.62	2 W	209327 2004 <i>BC</i> ₉₂		0.51	2 W
203815 2002 <i>TQ</i> ₂₃₅	9.484	0.75	2 W	209428 2004 <i>FR</i> ₅₀	4.73	0.61	2 W
203819 2002 <i>TZ</i> ₂₃₇	102.274	0.20	2 W	209460* 2004 <i>GG</i> ₂₈	13.428	0.47–0.74	2 W
203822 2002 <i>TB</i> ₂₉₁	45.497	0.68	2 W	209495 2004 <i>JS</i> ₁₀	9.643	0.70	2 W
203996 2003 <i>TX</i> ₁₆	2.87	0.42	2 W	209499* 2004 <i>JG</i> ₂₁			HNW
204075* 2003 <i>WK</i>			HNW	209512 2004 <i>RO</i> ₂		1.1	I
204124 2003 <i>XY</i> ₁₀	7.203	0.38	2 W	209579* 2004 <i>XL</i> ₈₉	6.055	0.69–0.97	2 W
204147* 2003 <i>YB</i> ₁₁₀	2.64	0.39	1+ W	209779 2005 <i>GS</i> ₁	2.578	0.67	2 W
204169* 2004 <i>BV</i> ₃₂	7.62	0.67	2 W	209824 2005 <i>GP</i> ₁₃₃	5.93	0.82	2 W
204193 2004 <i>BB</i> ₉₀	2.73	0.25	2 W	209924* 2005 <i>WS</i> ₅₅	2.726	0.25–0.25	2 W
204203 2004 <i>CT</i> ₅	3.42	0.18	2 W	209929 2005 <i>YD</i> ₂₈₈	6.994	0.24	2 W
204214 2004 <i>CW</i> ₅₈	8.07	0.81	2 W	209930 2006 <i>BQ</i>	5.957	0.74	2 W
204241* 2004 <i>DU</i> ₄₈	6.00	0.57	2 W	209933* 2006 <i>BH</i> ₁₅₀			HNW
204247* 2004 <i>DC</i> ₅₈			HNW	209979* 2006 <i>HT</i> ₄₄	3.19	0.90	2 W
204256 2004 <i>EW</i> ₆₈	4.286	0.10	1 W	210080 2006 <i>QU</i> ₃₄	7.921	0.46	2 W
204278 2004 <i>HG</i> ₁	6.621	0.88	2 W	210145* 2006 <i>SG</i> ₅₇	11.097	0.47–0.54	2 W
204385 2004 <i>TL</i> ₁₃₁	31.797	0.31	2 W	210258 2007 <i>RW</i> ₂₈₅	8.81	0.71	2 W
204504 2005 <i>CR</i> ₄₅	5.36	0.76	2 W	210278 2007 <i>TJ</i> ₂₉	5.22	0.36	2 W
204517 2005 <i>EL</i> ₂₁	3.102	0.25	2 W	210317 2007 <i>TM</i> ₂₁₇	2.81	0.40	2 W
204518* 2005 <i>EM</i> ₂₅			HNW	210450 2619 <i>P–L</i>	64.	0.25	1+ W
204529 2005 <i>EF</i> ₉₀	5.49	0.58	2 W	210474 1995 <i>ST</i> ₅₈	3.33	0.54	2 W
204565 2005 <i>EF</i> ₂₉₀	2.74	0.23	2 W	210511 1998 <i>OX</i> ₁₁	3.952	0.31	2 W
204668* 2006 <i>DP</i> ₁₅			HNW	210655 2000 <i>NQ</i> ₇	7.585	0.54	2 W
204831 Levski	2.59	0.44	2 W	210656* 2000 <i>OA</i> ₂₃	23.353	0.45–0.58	2 W
204877 2007 <i>TF</i> ₅	2.5	0.3	2– W	210662 2000 <i>QU</i> ₃₁	6.131	0.63	2 W
205260* 2000 <i>RO</i> ₉₃	3.32	0.32	2 W	210685 2000 <i>RE</i> ₉₂	7.606	0.34	2 W
205383 2001 <i>BV</i> ₄₇	5.554	0.30	3– W	210741* 2000 <i>UW</i> ₆₅	6.11	0.64	1 W
205402 2001 <i>EY</i> ₁₆	35.193	0.72	2 W	210750 2000 <i>VO</i> ₁₂	40.886	0.74	2 W
205420 2001 <i>FN</i> ₁₇₆	5.058	0.10	1 W	210865 2001 <i>RM</i> ₈₄	8.856	0.32	2 W

MINOR PLANET LIGHTCURVE PARAMETERS

Planet	Period	Variation	Note	Planet	Period	Variation	Note
210976* 2001 <i>VK</i> ₆₈	3.411	0.26–0.27	2 W	216479* 1999 <i>TF</i> ₂₃₇			HNW
210992 2001 <i>WY</i> ₉₂	17.217	0.33	2 W	216484 1999 <i>VE</i> ₈₅	3.143	0.15	2– W
211006 2001 <i>XT</i> ₁₈₁	11.936	0.44	2 W	216570 2002 <i>CW</i> ₅₄	8.397	0.58	2 W
211068 2002 <i>CF</i> ₁₉₉	4.264	0.65	2 W	216613 2002 <i>TU</i> ₂₈₁	32.933	0.67	2 W
211112 2002 <i>FX</i> ₃₁	8.805	0.63	2 W	216616 2002 <i>VK</i> ₁₁	47.538	0.85	2 W
211243 2002 <i>QJ</i> ₃₀	5.85	0.56	2 W	216668 2004 <i>BJ</i> ₃₈	14.006	0.41	2 W
211339* 2002 <i>TJ</i> ₃₅	5.14	0.73	2+ HW	216732* 2005 <i>GA</i> ₁₆₉	4.66	0.27	2– W
211349 2002 <i>TB</i> ₁₂₀	8.4	0.73	N	216908 2009 <i>JQ</i>	8.904	0.31	2 W
211390 2002 <i>UG</i> ₃₄	35.304	0.35	2 W	216910* Vnukov	8.90	0.59	1+ W
211435 2002 <i>YM</i> ₉	8.81	0.69	2 W	216922* 1997 <i>MZ</i> ₇			HNW
211439* 2002 <i>YD</i> ₂₃	12.993	0.43–0.51	2 W	216957* 1999 <i>XH</i> ₂₂₅			HNW
211518 2003 <i>QK</i> ₅₅	5.870	0.40	2 W	216958 2000 <i>AK</i> ₂₄	8.589	0.64	2 W
211523* 2003 <i>QX</i> ₆₀	6.54	0.53–0.54	3– W	216975* 2000 <i>NS</i> ₃	5.19	0.42	2+ W
211531 2003 <i>QV</i> ₁₀₃	9.353	0.49	2 W	216989 2000 <i>RB</i> ₁₄	3.625	0.35	2 W
211572 2003 <i>SF</i> ₁₅₇	32.927	0.09	1 W	217032 2001 <i>PJ</i> ₄	7.704	0.42	2 W
211714 2003 <i>YT</i> ₁₉	11.416	0.59	2 W	217035* 2001 <i>PT</i> ₆₂	11.03	0.82	2+ W
211809* 2004 <i>DO</i> ₃₄			HNW	217039 2001 <i>QK</i> ₄₃	7.967	0.46	2 W
211895 2004 <i>JX</i> ₃₂	37.	1.77	2+ W	217202* 2002 <i>TP</i> ₁₉₈	13.62	0.50	1+ DAW
212048* 2005 <i>CE</i> ₇₆	3.18	0.89	2 W	217232* 2003 <i>BU</i> ₄₈	17.646	0.25–0.30	2 W
212276 2005 <i>KO</i> ₁	5.743	0.20	1 W	217236 2003 <i>FQ</i> ₇₈	5.71	0.76	2 W
212302 2005 <i>NX</i> ₅₇	6.38	0.35	2 W	217258 2003 <i>WE</i> ₄₁	4.36	0.33	2 W
212364 2006 <i>GC</i> ₂₃	2.832	0.25	2 W	217307 2004 <i>LM</i> ₆	17.556	0.35	2 W
212378 2006 <i>HW</i> ₄₃	5.138	0.59	2 W	217335 2004 <i>RG</i> ₈₇	5.744	0.58	2 W
212450 2006 <i>QO</i>	5.476	0.68	2 W	217411* 2005 <i>LD</i> ₅₀	1.91	0.50	1+ W
212502 2006 <i>RQ</i> ₆	46.	0.10	1 W	217508* 2006 <i>TE</i> ₁₀₃	6.27	0.92	3– W
212536 2006 <i>RY</i> ₉₁	5.951	0.30	1+ W	217628 Lugh	8.55	0.08	1 W
212672 2006 <i>UP</i> ₃₃₂	4.12	0.55	2 W	217680 1999 <i>CC</i> ₈₆	7.173	0.24	2 W
212791 2007 <i>TN</i> ₂₃₂	10.21	0.41	2 W	217691* 1999 <i>RD</i> ₂₀₉			HNW
212812* 2007 <i>TX</i> ₃₉₁			HNW	217695 1999 <i>RT</i> ₂₄₂	9.271	0.16	2 W
212930 2008 <i>BX</i> ₆	3.12	0.50	2 W	217723* 1999 <i>VJ</i> ₁₆₅			HNW
212933 2008 <i>DQ</i> ₈	11.57	0.50	2 W	217741* 2000 <i>CC</i> ₉	6.530	0.59–0.64	2 W
212935 2008 <i>UH</i> ₉₆	6.879	1.04	2 W	217807* 2000 <i>XK</i> ₄₄	51.9	0.5 –1.2	3 T
213017 1995 <i>SO</i> ₈₁	58.	0.6	1 W	217813 2001 <i>BD</i> ₁₉		1.01	2 W
213173 2000 <i>ST</i> ₁₀₂	18.679	0.32	2 W	217888 2001 <i>RA</i> ₉₄	3.44	0.44	2 W
213177 2000 <i>SW</i> ₁₂₅	7.637	0.83	2 W	217923 2001 <i>SR</i> ₃₄₅	3.153	0.34	2 W
213216 2000 <i>UJ</i> ₉₂	4.594	0.68	2 W	217966 2001 <i>VT</i> ₁₀	55.032	0.08	1 W
213321 2001 <i>SG</i> ₁₁₉	14.692	0.49	2 W	217983 2001 <i>VT</i> ₉₈	9.598	0.48	2 W
213452 2002 <i>CP</i> ₃₃	4.78	0.7	3– W	218026* 2001 <i>YN</i> ₈₉	6.15	0.82	2+ W
213469 2002 <i>EX</i> ₆₀	7.174	0.52	2 W	218099 2002 <i>MH</i> ₃	5.0339	0.27	2+ W
213479 2002 <i>EY</i> ₁₃₅	5.651	0.49	2 W	218123* 2002 <i>PR</i> ₁₁₄			HNW
213480 2002 <i>EV</i> ₁₄₈	436.675	0.32	2 W	218138 2002 <i>RT</i> ₂₉	4.286	0.37	2 W
213665 2002 <i>SS</i> ₅₀	3.7	0.18	N	218144 2002 <i>RL</i> ₆₆	587.	0.25–0.32	3– W
213671 2002 <i>TK</i> ₄₁	30.448	0.58	2 W	218150 2002 <i>RC</i> ₁₀₆	5.156	0.56	2 W
213700 2002 <i>TB</i> ₂₈₈	6.202	0.96	2 W	218165 2002 <i>RG</i> ₂₄₅	3.583	0.41	2 W
213779 2003 <i>EP</i> ₁₄	5.55	0.96	2 W	218190* 2002 <i>TR</i> ₇₈			HNW
213829 2003 <i>QN</i> ₇₆	5.045	0.76	2 W	218204 2002 <i>TN</i> ₂₁₃	3.793	0.46	2 W
213834* 2003 <i>QD</i> ₁₀₃	5.39	1.34	2+ W	218213* 2002 <i>TC</i> ₂₈₆			HNW
213835 2003 <i>QZ</i> ₁₁₀	330.428	0.55	2 W	218277* 2003 <i>FK</i> ₂₇	2.90	1.10	1 W
213900* 2003 <i>UN</i> ₃₄	4.90	0.58	1+ W	218305* 2003 <i>SU</i> ₃₀₆	5.11	0.37	2– W
213991 2004 <i>BK</i> ₄₂	4.61	0.72	2– W	218309 2003 <i>UJ</i> ₅₃	6.343	0.37	2 W
214088 2004 <i>JN</i> ₁₃	6.342	0.17–0.40	3 W	218327* 2004 <i>BF</i> ₃			HNW
214168* 2005 <i>CO</i> ₃₇	2.62	0.64	1+ W	218416 2004 <i>RE</i> ₉₇	34.269	0.44	2 W
214247 2005 <i>EA</i> ₂₅₇	7.731	0.36	2 W	218430 2004 <i>RJ</i> ₁₇₈	13.884	0.80	2 W
214265 2005 <i>GU</i> ₃₁	4.666	0.54	2 W	218439 2004 <i>RM</i> ₁₉₁	12.272	0.36	2 W
214479 2005 <i>TB</i> ₇₃	20.594	0.84	NA	218440 2004 <i>RK</i> ₁₉₂	4.118	0.25	2 W
214843 2006 <i>VO</i> ₁₇₀	7.56	0.95	2 W	218444 2004 <i>RT</i> ₂₀₀	30.075	0.85	2 W
214869 2007 <i>PA</i> ₈	101.209	0.47–0.58	2 W	218445 2004 <i>RS</i> ₂₁₂	6.593	0.57	2 W
215112 1997 <i>XR</i> ₇	6.503	0.84	2 W	218590* 2005 <i>LJ</i> ₄₀	3.29	1.14	1+ W
215130 1999 <i>RB</i> ₁₉₉	5.292	0.71	2 W	218602* 2005 <i>NE</i> ₆₉	1.55	0.30	1+ W
215133 1999 <i>TU</i> ₃₃	6.241	0.87	2 W	218609* 2005 <i>OZ</i> ₃	9.72	0.8	2– HW
215187 2000 <i>LQ</i> ₂₅	17.735	0.61	NA	218743 2005 <i>UT</i> ₄₈₀	2.986	0.37	2 W
215188* 2000 <i>NM</i>	9.24	0.30–0.42	3 W	218865* 2006 <i>WY</i> ₂₀₄	4.82	0.43	2 W
215206* 2000 <i>SY</i> ₂₄₈			HNW	218942* 2008 <i>CK</i> ₁₆₅	4.47	0.73	2– W
215209* 2000 <i>SL</i> ₃₃₉	12.00	0.50	2– W	219032 1995 <i>EM</i> ₃	5.82	1.27	2 W
215442* 2002 <i>MQ</i> ₃	473.	0.38	3 B?	219071 1997 <i>US</i> ₉	3.520	0.2	2 W
215530 2002 <i>VE</i> ₁₀₃	7.016	0.41	2 W	219134 1998 <i>VG</i> ₄₁	10.238	0.40	2 W
215594 2003 <i>QQ</i> ₂₇	14.081	0.40	2 W	219167 1999 <i>TH</i> ₅₄	3.29	0.26	2 W
215619* 2003 <i>SQ</i> ₁₆₈	4.646	0.11	3 W	219192 1999 <i>UE</i> ₇	5.456	0.50	2 W
215701 2003 <i>YD</i> ₁₂₁	5.997	0.35–0.46	2 W	219296* 2000 <i>DJ</i> ₃₅	4.71	0.35	3– W
215750* 2004 <i>EK</i> ₈₅	5.49	0.86	3 W	219306* 2000 <i>DM</i> ₁₀₇			HNW
215792 2004 <i>MS</i> ₃	4.678	0.51	2 W	219336 2000 <i>OL</i> ₆₀	6.126	0.63	2 W
215878 2005 <i>EM</i> ₂₃₀	25.882	0.68	2 W	219407* 2000 <i>SL</i> ₂₃₀	4.36	0.50	3 W
215939 2005 <i>LQ</i> ₅	6.696	0.70	2 W	219441 2000 <i>UH</i> ₈₀	6.807	0.37	2 W
216087* 2006 <i>QE</i> ₁₃₅			HNW	219452* 2000 <i>WA</i> ₇₈			HNW
216107 2006 <i>RZ</i> ₄₇	11.5	0.12	1 W	219525 2001 <i>QG</i> ₉₇	4.6	0.18	N
216185* 2006 <i>TT</i> ₆₄			HNW	219543 2001 <i>QB</i> ₂₉₃	110.440	0.40	2 W
216258 2006 <i>WH</i> ₁	7.30	0.20	2 W	219615 2001 <i>TH</i> ₁₁₉	4.517	0.78	2 W
216413* 2008 <i>RR</i> ₆₈	3.44	0.34	1+ W	219638 2001 <i>UB</i> ₆₅	43.756	0.79	2 W
216428* Mauricio	3.943	0.33–0.35	2 W	219663 2001 <i>VZ</i> ₁₃	4.705	0.77	2 W
216446 2009 <i>FA</i> ₄₅		0.51	W	219668 2001 <i>VQ</i> ₃₇	65.866	0.42	2 W

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Planet		Period	Variation	Note	Planet		Period	Variation	Note
219686	2001 WE ₃₇	10.214	0.49	2− A	223253	2003 FJ ₇₉	2.765	0.31	2 W
219706	2001 XN ₄₃	6.080	0.74	2 W	223291	2003 HN ₄₉	5.207	0.60	2 W
219732	2001 XN ₁₅₂	10.557	0.41	2 W	223407*	2003 SF ₁₆₀	3.52	0.45	2+ W
219743	2001 XZ ₂₃₃	15.200	0.41	2 W	223409*	2003 SV ₁₆₉			HNW
219774	2001 YY ₁₄₅	1007.671	0.86	2 W	223512	2004 CA ₄₃	4.97	0.63	2 W
219803*	2002 AX ₁₅₁				223521*	2004 CZ ₁₀₀	3.176	0.31−0.45	2 W
219898*	2002 ER ₁₁₈	6.71	0.45	2 W	223529	2004 DK ₄₂	9.986	0.38	2 W
220026*	2002 QG ₅₅	8.065	0.58−0.71	2 W	223622	2004 JX ₁₅	8.168	0.65	2 W
220080*	2002 RX ₂₂₂				223628	2004 JF ₃₀	4.261	0.47	2 W
220111*	2002 TH ₃₂				223634	2004 KV ₄	3.235	0.83	2 W
220117	2002 TQ ₄₆	3.340	0.28	2 W	223665	2004 PH ₃₇	397.159	0.58	2 W
220119	2002 TV ₄₇	32.975	0.10	1 W	223751	2004 RR ₁₉₆	109.986	0.55	2 W
220123	2002 TR ₆₀	2.744	0.08	2 W	223788	2004 SK ₅₀	11.576	0.70	2 W
220124*	2002 TE ₆₆	45.4	0.20−0.51	2 W	223995	2005 EM ₁₄₀	8.052	0.85	2 W
220127	2002 TD ₇₇	6.607	0.37	2 W	224074*	2005 NJ ₅₃	6.418	0.70−0.74	2 W
220143	2002 TO ₁₃₄	3.502	0.08	2+	224325*	2005 UJ ₄₆	5.55	0.97	3− W
220179*	2002 UM ₁₀				224352	2005 UB ₁₁₁	6.437	0.59	2 W
220197	2002 VO ₂₁	5.457	0.57	2 W	224415	2005 UB ₃₄₉	7.111	0.67	2 W
220205	2002 VH ₃₀	9.835	0.36	2 W	224478	2005 VN ₇₅	5.317	0.70	2 W
220239	2002 XG ₁₅	204.107	0.28	2 W	224553	2005 WE ₁₅₁	15.166	0.65	2 W
220242*	2002 XY ₂₈				224554	2005 WB ₁₅₂	9.564	0.33	2 W
220243	2002 XJ ₃₁	2.210	0.67	2 W	224611*	2005 YV ₆₃	10.43	0.75	2− W
220324	2003 FA ₃₂	6.293	0.71	2 W	224784*	2006 QU ₁₁₅			HNW
220428	2003 UJ ₃	33.470	1.04	2 W	224792	2006 SF ₃₇₁	7.896	0.11	
220448	2003 YF ₆₅		0.57	W	224829*	2006 WD ₈₀			HNW
220457*	2004 BY ₁₀				224927*	2007 DF ₄₂			HNW
220838	2004 UD ₉	5.220	0.43	2 W	224946*	2007 DF ₁₀₆	8.65	0.68	1+ W
220988	2005 NE ₃₂	4.295	0.72	2 W	224958*	2007 EM ₁₈			HNW
221053*	2005 QJ ₁₁₈				225088*	2007 OR ₁₀	44.81	0.04	2− A
221153	2005 TU ₇₃	5.422	0.53	2 W	225176	2008 HV ₁₈	20.524	0.50	2 W
221175	2005 UR ₇	5.074	0.56	2 W	225212*	2008 RF ₂₅	>18.	>0.75	2 W
221189	2005 UN ₄₁	6.340	0.56	2 W	225263	2009 RQ ₃₀	7.661	0.47	2 W
221216	2005 UM ₉₁	6.665	0.31	2 W	225321	1997 XP ₇	7.920	0.36	2 W
221267	2005 US ₃₁₃	3.8397	0.10	NA	225351*	1998 TA ₂₀	13.62	0.80	1 DAW
221315	2005 VM ₄₂	5.267	0.42	2 W	225381	1999 TL ₉₀	5.792	0.75	2 W
221344*	2005 WS ₇₀	13.72	0.95	1 DAW	225415	1999 XA ₂₆₁	2.96	0.31	2 W
221540	2006 TG ₁₂₈	408.946	0.83	2 W	225416*	1999 YC	4.531	0.69−0.88	3 W
221616	2006 XX ₃₈	10.183	0.69	2 W	225445	2000 DO ₃₆	4.12	0.45	2 W
221652*	2007 BM ₇₈				225463*	2000 EQ ₆₇			HNW
221781	2007 RD ₆₂	55.544	0.59	2 W	225474	2000 FE ₅₉	6.936	0.57	2 W
221794*	2008 BC ₃₄	11.39	0.80	2 W	225503	2000 PY ₂₁	79.931	0.73	2 W
221903	2008 KY ₃₈	10.256	0.22	2 W	225507*	2000 QG ₇₁			HNW
221910	2008 QT ₂₃	6.07	0.23−0.41	2+	225534	2000 SX ₂₅	180.356	0.64	2 W
221922	2009 OJ	6.524	0.18	2 W	225546	2000 SH ₁₇₃	10.336	0.80	2 W
221994*	1997 PT ₄	6.479	0.56−0.71	2 W	225554	2000 SP ₃₀₄	5.660	0.96	2 W
222177	2000 BL ₂₉		0.58	W	225561	2000 SB ₃₇₂	281.553	0.55	2 W
222206	2000 EE ₁	4.128	0.50	2 W	225567	2000 TD ₄₅	63.332	0.77	2 W
222252	2000 QX ₃₄	10.902	0.53	2 W	225617*	2001 AQ ₁₄			HNW
222271	2000 RJ ₄₉	12.266	0.48	2 W	225685*	2001 QW ₄₁			HNW
222274*	2000 RE ₈₃	2.74	0.63	2 W	225716*	2001 RH ₂₃			HNW
222288	2000 SJ ₁₃₀	3.869	0.45	2 W	225736*	2001 RB ₁₅₀			HNW
222292	2000 SS ₁₆₆	5.059	0.25	2 W	225752*	2001 ST ₁₅₂			HNW
222330	2000 UD ₆₆	2.620	0.19	2 W	225790	2001 UY ₁₁₁	4.499	0.56	2 W
222439*	2001 QW ₄₆				225806	2001 VC ₈₂	8.260	0.70	2 W
222490	2001 SA ₂₂₇		1.5	I	225866	2001 XM ₂₂₃	9.264	0.53	2 W
222494	2001 SV ₂₅₁	5.779	0.67	2 W	225873	2001 YL ₄	2.8464	0.39	NA
222540	2001 UA ₁₇₃	10.649	0.56	2 W	225930	2002 AL ₁₆₁	241.784	0.45	2 W
222599	2001 XZ ₁₄	5.260	0.48	2 W	226028*	2002 ED ₁₂₈	5.45	0.90	1+ W
222610*	2001 XG ₅₆				226039	2002 GB ₁₃	4.592	0.50	2 W
222658	2001 XJ ₁₉₄	5.89	0.21	2 W	226044*	2002 GE ₆₆	4.02	0.49	2 W
222679	2001 YY ₅₄	151.922	0.57	2 W	226193	2002 TY ₂₈₅	6.19	0.69	2 W
222685	2001 YF ₁₁₅	6.522	0.35	2 W	226249	2002 XQ ₇₅	3.008	0.11	2 W
222703	2002 AG ₇₁	7.024	0.67	2 W	226268	2003 AN ₅₅	31.168	0.35	3− W
222787*	2002 CQ ₁₉₇	5.39	0.88	2 W	226278*	2003 AY ₉₂			HNW
222793*	2002 CO ₂₀₅	6.71	0.70	2 W	226311*	2003 CX ₇	6.49	0.69−0.71	2 W
222861*	2002 EZ ₁₃₄	8.99	0.74	2 W	226319*	2003 DQ ₂₀			HNW
222869	2002 FB ₆	8.98	0.28	2 W	226465*	2003 SS ₁₄₈			HNW
222965	2002 QJ ₄₅	8.21	0.65	2 W	226486*	2003 SV ₂₄₁			HNW
223047*	2002 TQ ₈₀	10.424	0.70−0.98	2 W	226554	2003 WR ₂₁			I
223058*	2002 TA ₁₉₀				226604	2004 CC ₈₆	3.56	0.49	2 W
223059*	2002 TR ₁₉₈				226608*	2004 DQ ₂₁	5.102	0.61−0.88	2 W
223120	2002 VZ ₃₂	2.44	0.39	2 W	226642	2004 FZ ₆₄	4.962	0.34	2 W
223121	2002 VN ₃₃	6.003	0.74	2 W	226682	2004 HP ₄₃	4.47	0.77	2 W
223151	2002 XP ₈	11.341	0.66	2 W	226691*	2004 JA ₂₂	19.9	0.20	1+ W
223155*	2002 XY ₃₄				226714*	2004 PV ₁₃	2.40	0.81	1+ W
223170*	2002 YP ₇	8.321	0.60−0.66	2 W	226751*	2004 RE ₂₈	6.91	0.62	3− W
223174*	2002 YF ₂₂				226808	2004 RC ₂₁₇	5.174	0.39	2 W
223193	2003 AX ₇₁	4.68	0.91	2 W	226828	2004 RR ₃₂₁	259.241	0.90	2 W
223209*	2003 BL ₄₉				226838	2004 SL ₁₉	6.196	0.72	2 W
223252*	2003 FQ ₇₂	4.95	1.03	3 W	226863*	2004 TK ₃₈	6.44	0.90	1 DAW

MINOR PLANET LIGHTCURVE PARAMETERS

Planet	Period	Variation	Note	Planet	Period	Variation	Note
226971* 2004 <i>VH</i> ₁₁₂	6.08	0.76	2 W	230589 2003 <i>EM</i> ₁₂	12.54	0.38	2 W
227131* 2005 <i>OB</i> ₁₀			2 HN	230676 2003 <i>SP</i> ₂₉₂	7.310	0.75	2 W
227136* 2005 <i>OL</i> ₁₄			2 HN	230690 2003 <i>UX</i> ₁₆	4.782	0.33	2 W
227139* 2005 <i>OG</i> ₂₆	7.778	0.44–0.47	2 W	230738 2003 <i>WO</i> ₁₀			2 W
227189 2005 <i>QS</i> ₆₇	4.17	0.47	2 W	230871 2004 <i>RA</i> ₁₉₉	13.129	0.65	2 W
227214* 2005 <i>QU</i> ₁₇₇			2 HN	230872 2004 <i>RG</i> ₁₉₉	535.057	0.66	2 W
227234 2005 <i>SR</i> ₅	2.27	0.57	2 W	230928* 2004 <i>VD</i> ₅₄	8.07	1.09	2 W
227329* 2005 <i>TQ</i> ₁₉₀			2 HN	230946* 2004 <i>XT</i> ₄₅			2 HN
227503 2005 <i>XR</i> ₈₄	30.238	0.40	2 W	230965 2004 <i>XA</i> ₁₉₂	7.88	0.07	1+ 1
227607* 2006 <i>AD</i> ₇₁	4.64	0.60	2 W	230974* 2005 <i>AZ</i> ₁₄			2 HN
227683* 2006 <i>CO</i> ₄₉	2.87	0.61	2 W	231051 2005 <i>GW</i> ₆₀	9.4	0.60	2 W
227731* 2006 <i>EY</i> ₆₂	5.22	0.77	2 W	231134 2005 <i>TU</i> ₄₅	2.672	0.45	3
227837* 2007 <i>CX</i> ₅₆	5.726	0.68–0.70	2 W	231291 2006 <i>BZ</i> ₁₀₂			2 W
227839 2007 <i>CC</i> ₇₃	2.41	0.56	2 W	231333 2006 <i>DO</i> ₁₇₉	5.377	0.53	2 W
227840* 2007 <i>DC</i> ₁			2 HN	231336 2006 <i>DL</i> ₁₉₇	9.313	0.78	2 W
227955* 2007 <i>GQ</i> ₆₇	5.13	0.78	2+ W	231421 2007 <i>EU</i> ₅₅	4.195	0.16	2 W
227961 2007 <i>HO</i> ₁₀	7.467	0.73	2 W	231449* 2007 <i>HH</i> ₅₁			2 HN
227991 2007 <i>JJ</i> ₁₀	20.305	0.33	2 W	231631 2009 <i>TV</i> ₄₁		1.03	1
228006 2007 <i>RL</i> ₆	9.90	0.21	2–	231664 2009 <i>YL</i> ₆	8.332	0.59	2 W
228102* 2008 <i>SY</i> ₁₇₂	7.259	0.25	2+ HW	231668 1981 <i>EK</i> ₂₈	9.897	0.69	2 W
228114 2008 <i>TB</i> ₆₁		1.03	1	231717 1999 <i>CK</i> ₉	4.263	0.47–0.55	2 W
228142* 2009 <i>RZ</i> ₄₅			2 HN	231741 1999 <i>RX</i> ₁₄₁	5.0	0.55	2 W
228176* 2009 <i>SP</i> ₂₆₃			2 HN	231752 1999 <i>TF</i> ₁₇₃	8.493	0.61	2 W
228187* 2009 <i>TQ</i> ₃₅	2.93	0.27	2 W	231831 2000 <i>OR</i> ₁₀	13.322	0.16	2 W
228188 2009 <i>UA</i> ₂₁	4.839	0.77	2 W	231865 2000 <i>SY</i> ₃₁₈	3.02	0.34	2 W
228255 1999 <i>ET</i> ₇	4.2	0.25	1 W	231893 2000 <i>WS</i> ₇₃	3.949	0.50	2 W
228328 2000 <i>RO</i> ₁₉	125.577	0.76	2 W	231927 2001 <i>DU</i> ₃₀	24.4	0.90	2 W
228330 2000 <i>RQ</i> ₃₄	6.937	0.48	2 W	231958* 2001 <i>PF</i> ₂₈	4.5	0.48–0.65	2 W
228332 2000 <i>RL</i> ₉₉	17.430	0.11	2 W	232008 2001 <i>SC</i> ₁₄₀	39.442	0.65	2 W
228334 2000 <i>SK</i> ₂₈	9.235	0.82	2 W	232067 2001 <i>UR</i> ₂₂₀	4.2	0.29	N
228381 2000 <i>WM</i> ₁₃₃	16.161	0.47	2 W	232164 2002 <i>CT</i> ₂₉₉	67.615	0.84	2 W
228384* 2000 <i>XD</i> ₁₄			2 HN	232195 2002 <i>GG</i> ₂	45.133	0.87	2 W
228385* 2000 <i>XW</i> ₂₀			2 HN	232206* 2002 <i>GN</i> ₁₀₇	11.4	0.45–0.80	2 W
228533 2001 <i>VR</i> ₁₉	21.502	0.59	2 W	232241 2002 <i>OA</i> ₇	14.746	0.34	2 W
228561* 2001 <i>XC</i> ₁₃₇			2 HN	232247* 2002 <i>PJ</i> ₁₉	4.40	0.94	1+ 1
228564* 2001 <i>XP</i> ₁₈₇			2 HN	232257 2002 <i>PT</i> ₁₃₅	4.802	0.59	2 W
228570 2001 <i>XA</i> ₂₂₁	3.9904	0.15	1+ W	232278 2002 <i>RQ</i> ₂₀	7.983	0.33	2 W
228576 2001 <i>YR</i> ₇₂	2.516	0.14	2 W	232321 2002 <i>TM</i> ₁₁₃	6.175	0.50	2 W
228578* 2001 <i>YB</i> ₉₂			2 HN	232336 2002 <i>TV</i> ₂₈₉	5.951	0.78	2 W
228582 2001 <i>YJ</i> ₁₁₂	5.393	0.46	2 W	232357 2002 <i>XT</i> ₁₆	15.345	0.18	2 W
228603* 2002 <i>AB</i> ₁₇₇			2 HN	232438 2003 <i>FH</i> ₇₁	>24.	0.25	
228618 2002 <i>CC</i> ₄₉	11.826	0.50	2 W	232486 2003 <i>NN</i>	3.86	0.62	2 W
228624* 2002 <i>CD</i> ₁₀₆			2 HN	232539* 2003 <i>SG</i> ₁₀₃			2 HN
228653* 2002 <i>EZ</i> ₁₂₉	8.29	0.23	2	232574* 2003 <i>SH</i> ₃₂₄			2 HN
228729* 2002 <i>TH</i> ₁₂₁	9.247	0.55–0.59	2 W	232588 2003 <i>TL</i> ₅₁	4.461	0.31	2 W
228821* 2003 <i>BV</i> ₅₇	8.180	0.81–0.90	2 W	232674* 2003 <i>YF</i> ₄₅	8.50	0.53–0.71	2+ W
228830* 2003 <i>DP</i>	4.294	0.51–0.64	2 W	232692 2004 <i>AM</i> ₆	94.251	0.74	2 W
228871 2003 <i>HQ</i> ₃₁	11.152	0.67	2 W	232775 2004 <i>PA</i> ₇₅	2.31	0.39	2 W
228894 2003 <i>RD</i> ₁₁	5.092	0.59	2 W	232783 2004 <i>QF</i> ₃	8.886	0.27	2 W
229062 2004 <i>GB</i> ₂₄	2.46	0.52	2 W	232802 2004 <i>RV</i> ₁₉₉	27.873	0.35	2 W
229126 2004 <i>RP</i> ₁₇₆	6.794	0.60	2 W	232827 2004 <i>SX</i> ₅₁	6.755	0.24	2 W
229130 2004 <i>RR</i> ₁₉₁	4.317	0.60	2 W	232947 2005 <i>EP</i> ₅	3.968	0.30	2 W
229195 2004 <i>TV</i> ₂₈₅	10.243	0.20	2 W	233023* 2005 <i>ER</i> ₂₆₄	6.78	0.56	1 DAW
229216 2004 <i>VK</i> ₇₂	3.877	0.42	2 W	233051 2005 <i>GP</i> ₇₇	6.976	0.61	2 W
229223 2004 <i>XB</i> ₅	16.170	0.45	2 W	233071 2005 <i>JY</i> ₇₀	10.748	0.35	2 W
229401 2005 <i>SU</i> ₁₅₂	28.	0.76	2	233120 2005 <i>TN</i> ₂₄	53.547	0.69	2 W
229425* Grosspointner	5.89	0.55	1+ W	233175 2005 <i>VJ</i> ₇₈	5.253	0.47	2 W
229468 2005 <i>UE</i> ₂₅₃	4.97	0.76	2 W	233214 2005 <i>XT</i> ₁₁₀	4.19	0.59	2 W
229495 2005 <i>UG</i> ₅₀₈	5.348	0.58	2 W	233229* 2005 <i>YD</i> ₃₉	8.671	0.74–0.82	2 W
229567 2006 <i>AR</i> ₃₃	192.207	0.63	2 W	233350* 2006 <i>DT</i> ₆₁	5.324	0.66–0.71	2 W
229578* 2006 <i>BD</i> ₃₈			2 HN	233351 2006 <i>DU</i> ₆₁	2.847	0.40	2 W
229702 2007 <i>EO</i> ₄₈	9.331	0.55	2 W	233366* 2006 <i>DH</i> ₁₃₈			2 HN
229762* 2007 <i>UK</i> ₁₂₆	11.05	0.03	2– 1B	233378* 2006 <i>DP</i> ₁₉₉	5.549	0.54–0.58	2 W
229782* 2008 <i>PZ</i> ₃			2 HN	233401 2006 <i>FF</i> ₃₉	17.	0.55	2 W
229810* 2008 <i>SE</i> ₁₆₄	4.27	0.46	2– W	233482 2006 <i>SD</i> ₁₄₇	8.133	1.00	2 W
229820* 2008 <i>TA</i> ₈₄			2 HN	233486 2006 <i>UF</i> ₁	12.63	0.50	2 W
230034* 2000 <i>QV</i> ₂₆			2 HN	233557 2007 <i>NA</i> ₅	5.61	0.48	2 W
230047 2000 <i>SJ</i> ₄₀	3.940	0.47	2 W	233572* 2007 <i>PR</i> ₃₁	3.81	0.58	1+ W
230067 2000 <i>TG</i> ₇₂	9.32	0.44	2 W	233576 2007 <i>QL</i>	8.703	0.31	2 W
230111 2001 <i>BE</i> ₁₀	4.194	0.30–0.32	3	233760 2008 <i>TT</i> ₅₅	2.79	0.30	2 W
230114 2001 <i>BR</i> ₇₁			2 W	233814* 2008 <i>UF</i> ₁₇₀			2 HN
230151 Vachier	9.082	0.69	2 W	233833* 2008 <i>UY</i> ₂₆₆			2 HN
230162 2001 <i>QE</i> ₂₄₄	5.78	0.47	2 W	233852 2008 <i>UC</i> ₃₆₄	30.590	0.43	2 W
230204* 2001 <i>ST</i> ₂₆₅	4.6	0.59–0.70	2 W	233874 2008 <i>WL</i> ₅₉	8.14	0.85	2 W
230213* 2001 <i>TP</i> ₃₁	11.466	0.23–0.28	2 W	233904* 2009 <i>BA</i> ₁₂₈	2.83	0.28–0.40	2 W
230224* 2001 <i>TS</i> ₁₆₀	4.836	0.38–0.57	2 W	233929 2009 <i>UN</i> ₈₃	4.85	0.73	2 W
230282* 2001 <i>XH</i> ₂₁₅			2 HN	233939 2009 <i>VR</i> ₅₈		1.1	1
230290 2001 <i>YQ</i> ₁₃	110.470	0.84	2 W	233963 2010 <i>AP</i> ₃₁	5.25	0.25	2 W
230313* 2002 <i>CE</i> ₂			2 HN	234145 2000 <i>EW</i> ₇₀	<33.		2 RTO
230570 2003 <i>BQ</i> ₆₄	12.	0.30	1 DW	234193 2000 <i>QK</i> ₁₄₀	4.182	0.38	2 W

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Planet	Period	Variation	Note	Planet	Period	Variation	Note
234254 2000 <i>UE</i> ₁₁	4.924	0.68	2 W	238913 2006 <i>AE</i> ₉	4.93	0.16	2- W
234287 2000 <i>XM</i> ₁₁	7.024	0.24	2 W	239035 2006 <i>DZ</i> ₁₄₅	3.21	0.45	2 W
234295 2000 <i>YK</i> ₄₅	3.792	0.34	2 W	239036 2006 <i>DS</i> ₁₄₇	4.21	0.53	2 W
234311* 2001 <i>AL</i> ₅₃	6.192	0.31-0.36	2 W	239101 2006 <i>HN</i> ₅₃	10.21	0.79	2 W
234314 2001 <i>BY</i> ₃₀	3.37	0.33	2 W	239107 2006 <i>HH</i> ₅₈	3.21	0.75	1+ W
234400 2001 <i>QR</i> ₂₉₂	4.049	0.17	2 W	239152 2006 <i>KD</i> ₉	4.23	0.63	2 W
234514 2001 <i>TW</i> ₂₄₀	9.618	0.73	2 W	239163 2006 <i>KZ</i> ₃₀	14.772	0.32	2 W
234565* 2001 <i>XM</i> ₅₀	7.93	>0.7	1 W	239303 2007 <i>PB</i> ₄₃	292.050	0.92	2 W
234631 2002 <i>CL</i> ₁₁	6.11	0.42	2 W	239392 2007 <i>TG</i> ₂₀	5.75	0.55	2 W
234696 2002 <i>GW</i> ₁₂₉	5.55	0.58	2 W	239402 2007 <i>TU</i> ₄₁	7.509	0.55	2 W
234761 Rainerkracht	7.44	0.26	2 W	239440* 2007 <i>TR</i> ₁₇₁	6.277	0.61-0.69	2 W
234795 2002 <i>QR</i> ₆₁	9.41	0.82	2 W	239668* 2008 <i>XU</i> ₅₃	3.78	0.65	2 W
234841 2002 <i>RM</i> ₁₇₄	9.546	0.68	2 W	239673 2008 <i>YV</i> ₂₂	4.68	0.61	2 W
234846 2002 <i>RB</i> ₁₈₇	20.834	0.64	2 W	239889 2000 <i>RF</i>	8.521	0.83	2 W
234848 2002 <i>RN</i> ₁₉₃	5.435	0.57	2 W	239987 2001 <i>RF</i> ₁₃₈	4.507	0.60	2 W
234855 2002 <i>RZ</i> ₂₂₈	12.262	0.67	2 W	240098 2002 <i>CP</i> ₉₆	4.53	0.73	2 W
234886 2002 <i>TL</i> ₈₈	123.721	0.67	2 W	240161* 2002 <i>PU</i> ₂₅			HNW
234934 2002 <i>UG</i> ₂₈	5.96	0.27	2 W	240172* 2002 <i>PC</i> ₁₈₀			HNW
234938 2002 <i>VC</i> ₁₀	2.657	0.23	2 W	240238 2002 <i>TB</i> ₂₆₈	8.467	0.68	2 W
235086 2003 <i>HW</i> ₁₁	6.385	0.80	3- W	240419 2003 <i>WW</i>	11.335	0.38	2 W
235132* 2003 <i>QP</i> ₅₇	4.780	0.45-0.50	2 W	240468* 2004 <i>BV</i> ₃₀	6.20	0.65	1 DAW
235263* 2003 <i>SN</i> ₄₂₈	5.67	0.65-0.97	2+ W	240486 2006 <i>BU</i> ₁₅₆	3.53	0.40	2 W
235313* 2003 <i>UJ</i> ₁₃₄	5.956	0.52-0.54	2 W	240558* 2004 <i>RU</i> ₂₅₀	5.923	0.60-0.70	2 W
235323 2003 <i>UU</i> ₁₈₁	4.92	0.77	2 W	240732* 2005 <i>JK</i> ₂₈			HNW
235421 2003 <i>YW</i> ₃₇	5.199	0.30	2 W	240765 2005 <i>MX</i> ₁₂	9.06	0.58	2 W
235426 2003 <i>YH</i> ₇₀	4.021	0.64	2 W	241046* 2006 <i>RD</i> ₇₆			HNW
235520 2004 <i>CC</i> ₃	6.439	0.64	2 W	241050 2006 <i>RU</i> ₁₀₄	3.743	0.16	1 W
235615* 2004 <i>PS</i> ₁₀₄	4.10	0.18	2 W	241076 2006 <i>TG</i> ₆₂	44.571	0.60	2 W
235661* 2004 <i>RB</i> ₂₂₁	5.16	0.56-0.64	2 W	241092 2006 <i>VR</i> ₂	8.665	0.65	2 W
235714 2004 <i>TD</i> ₁₁₂	18.648	0.65	2 W	241102 2007 <i>HO</i>	8.727	0.50	2 W
235756 2004 <i>VC</i>	7.18	0.12	2+ W	241158 2007 <i>RR</i> ₈₁	9.7	0.60	3- W
235773 2004 <i>VD</i> ₂₄	6.784	0.27	2 W	241215* 2007 <i>TA</i> ₆₃			HNW
235801* 2004 <i>XT</i> ₂₅			HNW	241216* 2007 <i>TM</i> ₆₃	9.850	0.50-0.51	2 W
235841 2004 <i>YC</i> ₁₂	9.32	0.62	2 W	241221 2007 <i>TO</i> ₈₀	5.45	0.67	2 W
235854* 2005 <i>AQ</i> ₂₉			HNW	241339 2007 <i>VL</i> ₂₆₉	7.7	0.85	2+ W
235882* 2005 <i>CM</i> ₅	8.662	0.55-0.58	2 W	241477* 2009 <i>BH</i> ₃₆			HNW
235885 2005 <i>CK</i> ₁₀	6.53	0.79	2 W	241528 Tubman		1.3	I
235901 2005 <i>CV</i> ₈₀	8.347	0.68	2 W	241596 1998 <i>XM</i> ₂	8.75	0.40	3- W
236071* 2005 <i>JU</i> ₁₀₂	7.11	0.57	2 W	241603 1999 <i>RC</i> ₁₁₀	3.579	0.37	2 W
236241* 2005 <i>YA</i> ₅₂			HNW	241607* 1999 <i>RJ</i> ₂₀₁	5.783	0.44-0.51	2 W
236432 2006 <i>DF</i> ₁₃₂	3.27	0.46	2 W	241618 1999 <i>TY</i> ₂₇₁	6.517	0.73	2 W
236472 2006 <i>FS</i> ₁₄	6.04	0.54	2 W	241620 1999 <i>UQ</i> ₂₆	5.998	0.39	2 W
236473 2006 <i>FO</i> ₁₈	12.63	0.73	2 W	241623 1999 <i>VT</i> ₁₉	8.417	0.68	2 W
236497 2006 <i>GU</i> ₂₀	16.685	0.65	2 W	241648 2000 <i>EN</i> ₁₁	41.371	0.98	2 W
236665 2006 <i>MJ</i> ₁	8.3	0.40	2+ W	241804 2001 <i>QW</i> ₂₈₂	>12.	>0.2	2- W
236672 2006 <i>PK</i> ₃₅	11.85	0.60	2 W	241827 2001 <i>SR</i> ₂₀₉	7.56	0.75	2 W
236781 2007 <i>PG</i> ₁₅	6.479	0.81	2 W	241908 2001 <i>YH</i> ₁₄₂	4.436	0.12	1 W
236789 2007 <i>PY</i> ₃₅	5.280	0.71	2 W	241913* 2002 <i>AP</i> ₄₇	8.42	0.39	2 W
236796 2007 <i>PC</i> ₄₄	4.328	0.41	2 W	241994 2002 <i>NK</i> ₄₂		1.1	I
237039* 2008 <i>SM</i> ₁₀₆			HNW	242070 2002 <i>TP</i> ₁₃₀	3.64	0.30	2 W
237072* 2008 <i>SR</i> ₂₅₁			HNW	242072 2002 <i>TM</i> ₁₃₆	9.062	0.31	2 W
237097 2008 <i>TE</i> ₄₅	4.514	0.62	2 W	242076 2002 <i>TG</i> ₁₇₉	12.337	0.40	2 W
237100 2008 <i>TE</i> ₇₃	7.842	0.88	2 W	242091 2002 <i>TW</i> ₂₉₈	6.981	0.67	2 W
237114 2008 <i>TY</i> ₁₅₇	15.625	0.66	2 W	242135 2003 <i>AQ</i> ₄	3.309	0.09	1 W
237154 2008 <i>UR</i> ₉₆	4.552	0.47	2 W	242164 2003 <i>FF</i> ₉₈	5.237	0.60	2 W
237181 2008 <i>UX</i> ₁₈₄	4.44	0.51	2 W	242171 2003 <i>GG</i> ₅₁	6.785	0.49	NA
237266 2008 <i>WX</i> ₉₆	3.71	0.54	2 W	242191 2003 <i>NZ</i> ₆	13.531	1.19-1.5	3 W
237286* 2008 <i>XB</i> ₂₁			HNW	242338* 2003 <i>YS</i> ₁₁₄			HNW
237306* 2008 <i>YH</i> ₈₉			HNW	242365* 2004 <i>CM</i> ₂₇	9.941	0.45-0.52	2 W
237332 2009 <i>UN</i> ₈₇	6.111	0.44	2 W	242366 2004 <i>CP</i> ₂₉	4.07	0.45	2 W
237344 2010 <i>AY</i> ₂₃	5.623	0.27	2 W	242395 2004 <i>FU</i> ₄₃	7.68	0.84	2 W
237434 1999 <i>PH</i> ₃	35.429	0.10	1 W	242446 2004 <i>PK</i> ₉₆	5.119	0.47	2 W
237442 1999 <i>TA</i> ₁₀	14.	0.1	N	242599* 2005 <i>JG</i> ₄₅	8.42	1.0	1 W
237510 2000 <i>RM</i> ₆₉	7.521	0.68	2 W	242602* 2005 <i>JA</i> ₅₈	8.600	1.00	3- HW
237709* 2001 <i>UN</i> ₁₆₁	5.00	0.29	2- W	242708 2005 <i>UK</i> ₁	4.289	0.13	1+ W
237777 2002 <i>AH</i> ₁₁₄	10.79	0.87	2 W	242748* 2005 <i>VT</i> ₆₈			HNW
237921* 2002 <i>PF</i> ₁₇₃	3.792	0.40-0.52	2 W	242757 2005 <i>WX</i> ₇₀	4.384	0.32	2 W
238033* 2002 <i>WA</i> ₂₇	4.66	0.90	1+ W	242812 2006 <i>BN</i> ₁₄₉	6.144	0.55	2 W
238190 2003 <i>SU</i> ₂₉₃	25.457	0.99	2 W	242846 2006 <i>EE</i> ₃₉	3.50	0.29	2 W
238261 2003 <i>WP</i> ₉	6.761	0.50-0.61	2 W	242897 2006 <i>KH</i> ₇₃	30.97	0.64	2 W
238349 2004 <i>BG</i> ₁₁₁	5.	0.13	2- W	242916 2006 <i>OS</i> ₂	4.717	0.10	1 W
238509 2004 <i>TH</i> ₅₂	73.547	0.74	2 W	242944 2006 <i>RP</i> ₃₂	94.	0.2	1 W
238535 2004 <i>TQ</i> ₃₃₄	6.53	0.87	2 W	242995 2006 <i>TS</i> ₈	10.43	0.33	2 W
238543 2004 <i>VK</i> ₃₆	3.846	0.64	2 W	243147 2007 <i>TX</i> ₁₈	13.538	0.42	2 W
238584 2004 <i>XR</i> ₁₈₁	8.085	0.85	2 W	243200 2007 <i>TC</i> ₄₄₇	6.36	0.72	2 W
238636 2005 <i>CF</i> ₅₅	8.73	0.76	2 W	243292* 2008 <i>DS</i> ₇₀			HNW
238650 2005 <i>EV</i> ₄₄	9.06	0.54	2 W	243369 2008 <i>WC</i> ₁₀₂	7.120	0.89	2 W
238671* 2005 <i>EM</i> ₁₇₉			HNW	243412* 2009 <i>BT</i> ₉₈			HNW
238805* 2005 <i>LZ</i> ₅₃			HNW	243566* 1995 <i>SA</i>	14.37	0.17-0.21	2 W
238850* 2005 <i>UL</i> ₅₃₀	5.33	1.10	2 W	243633 1999 <i>RL</i> ₂₃₉	5.034	0.56	2 W

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Planet	Period	Variation	Note	Planet	Period	Variation	Note
243665 1999 VZ ₈₀	6.831	0.74	2 W	249460* 2009 HZ ₈₄	3.50	0.28	3- W
243686 1999 XD ₁₃₈	15.552	0.40	2 W	249590 1996 UG ₂	4.45	0.23	2
243743 2000 QL ₆₂	3.489	0.10	1 W	249595 1997 GH ₂₈	19.696	1.20	3
243766 2000 RS ₂₆	6.339	0.76	2 W	249606 1999 RV ₉₃	15.687	0.82	2 W
243934 2001 OQ ₁₀₆	4.875	0.61	2 W	249610 1999 RJ ₁₇₆	3.587	0.07	1 W
244075 2001 TQ ₂₀₀	6.807	0.59	2 W	249657 1999 UF ₄₅	4.871	0.28	2 W
244416 2002 QH	3.901	0.37	2 W	249684 1999 XN ₂₅₆	11.810	0.77	2 W
244527 2002 TT ₂₃₈	11.179	0.73	2 W	249699 2000 EM ₁₄₃	7.507	0.51	2 W
244537 2002 UE ₂₉	18.709	0.43	2 W	249755* 2000 SJ ₃₅₀	16.498	0.39-0.50	2 W
244631 2003 BA ₇₁	48.972	0.08	1 W	249838 2001 OR ₁₀₄	670.775	0.69	2 W
244805 2003 SQ ₂₇₃	9.166	0.59	2 W	249849 2001 QA ₁₁	4.751	0.65	2 W
244972* 2004 BX ₄₀			HNW	249857 2001 QL ₁₀₄	29.309	0.53	2 W
244978* 2004 BZ ₇₇	6.44	0.57	3- W	249866* 2001 QM ₁₆₅	3.798	0.18	2 W
245003* 2004 CR ₄₄			HNW	249884 2001 QV ₂₈₆	4.673	0.40	2 W
245355 2005 EL ₂₆₃	3.98	0.73	2 W	249889 2001 RS ₄₃	21.030	0.56	2 W
245408 2005 JO	4.82	0.43	2 W	249909 2001 SC ₁₅₂	4.663	0.56	2 W
245614 2005 WR ₈₁	34.460	0.49	2 W	249958 2001 UE ₂₆	6.816	0.31	2 W
245672 2006 BP ₂₄	7.886	0.58	2 W	250071 2002 EO ₈₉	5.22	0.27	2 W
245959 2006 SY ₅₅	3.223	0.38	2 W	250112 2002 KY ₁₄	3.56	0.13	2- 1A
246030 2006 UB ₇₅	7.51	0.1	1 W	250139* 2002 RK ₆₈	8.445	0.84	2 W
246045 2006 UU ₁₉₈	7.514	0.88	2 W	250171 2002 TH ₁₃₃	6.302	0.99	2 W
246058 2006 VT ₃₁	8.296	0.08	1 W	250203 2002 UN ₆₅	4.466	0.70	2- W
246550 2008 SO ₄₇		1.04	I	250235 2002 XQ ₇₃	39.783	0.77	2 W
246573 2008 TN ₁₁₂	6.592	0.53	2 W	250365 2003 SJ ₃₀₇	5.35	0.47	2- W
246647* 2008 YO ₁₉			HNW	250458* 2004 BO ₄₁	16.19	0.85	2
246696 2009 AN ₂₅	7.06	0.72	2 W	250484 2004 ED ₃₁	17.398	0.72	2 W
246917 1998 UR ₁₈	7.834	0.32	2 W	250523 2004 PV ₃₃	10.762	0.31	2 W
246924 1999 AJ ₁	58.865	0.47	2 W	250531 2004 PG ₉₂	5.139	0.09	1 W
246970* 1999 TX ₁₃₈	3.36	0.23	2+ W	250567 2004 TH ₇₈	9.252	0.51	2 W
246979 1999 TA ₂₃₀	4.474	0.30	2 W	250618 2005 GR ₃₀	66.094	0.88	2 W
247028 2000 AZ ₇₀	3.627	0.15	2 W	250629 2005 GX ₁₆₉	45.	0.3	1 W
247081* 2000 SS ₇₂	4.73	0.40	2 W	250631 2005 HE ₅	8.106	0.58	2 W
247111 2000 TZ ₆₃	43.014	0.75	2 W	250637 2005 JL ₄₇	6.473	0.37	2 W
247115 2000 UY ₄₃	26.519	0.69	2 W	250648* 2005 JF ₁₄₈	5.95	0.73	2 HW
247147 2000 XX ₁₂	6.584	0.55	2 W	250685 2005 QC ₄₀	3.611	0.65	2 W
247201 2001 OO ₁₀₉	3.620	0.53	2 W	250719 2005 SN ₂₁	6.8	0.82	1+ W
247207 2001 PO ₂₇	3.697	0.06	1 W	250722* 2005 SN ₂₉	7.301	0.44-0.53	2 W
247229 2001 QB ₁₉₅	4.386	0.48	2 W	250806 2005 UG ₃₀	8.938	0.70	2 W
247283 2001 SC ₁₈₇	120.446	0.93	2 W	250815 2005 UB ₅₈	10.249	0.49	2 W
247313 2001 TP ₁₆₈	91.623	0.10	1 W	250830 2005 UZ ₉₀	3.902	0.60	2 W
247388 2001 YA ₁₂₂	183.534	0.62	2 W	250898 2005 VL ₈₂	6.252	0.80	2 W
247405 2002 CU ₁		1.2	I	250910 2005 WC ₄	9.023	0.43	2 W
247471 2002 JF ₅₁	10.652	0.47	2 W	250929 2005 WK ₁₁₇	14.630	0.42	2 W
247483 2002 LE ₁₉	5.288	0.77	2 W	250968 2006 GM ₂₆	10.687	0.30	2 W
247504 2002 PN ₇₀	6.958	0.63	2 W	251003 2006 PB	18.666	0.59	2 W
247529* 2002 QE ₁₂₁			HNW	251051 2006 RZ ₅₉	2.920	0.12	2- W
247574 2002 TA ₁₈	8.422	0.77	2 W	251064 2006 SK ₂₃	7.790	0.09	1 W
247634 2002 VM ₁₂	21.703	0.42	2 W	251079 2006 SC ₈₁	80.	0.6	1+ W
247636 2002 VV ₃₉	29.785	0.59	2 W	251228 2006 UH ₂₄₁	15.509	0.26	2 W
247651 2002 WK ₁₅	111.576	0.61	2 W	251268 2006 WL ₁₅	6.456	0.36	2 W
247655* 2002 XN ₆₃	2.65	0.28	2 W	251271 2006 WX ₃₂	14.022	0.67	2 W
247795 2003 SX ₅₄	22.126	0.33	2 W	251313 2006 YY ₃₈	12.159	0.54	2 W
247816 2003 SQ ₁₄₄	2.559	0.07	1 W	251338 2007 EM ₁₈₁		1.1	I
247827 2003 SN ₁₉₈	2.042	0.08	1 W	251346 2007 SJ	2.718	0.10-0.14	3
247929 2003 WZ ₁₃₂	3.661	0.61	2 W	251492 2008 ET ₃₆	6.419	0.28	2 W
247963 2003 YY ₁₃₆	3.837	0.35	2 W	251525* 2008 GX ₆₀			HNW
247969 2004 AG ₁₇		1.03	I	251695* 1995 WC ₃₃	5.71	0.95	2- W
248071 2004 PA ₄₅	14.122	0.69	2 W	251696 1995 YU ₆	5.624	0.29	2 W
248073 2004 PT ₄₈	11.667	0.52	2 W	251718 1997 SV ₁₈	4.443	0.95	2 W
248083* 2004 QU ₂₄	4.66	0.12	2- W	251738 1998 QU ₈₇	49.856	0.36	2 W
248098 2004 RG ₈₅	167.804	0.61	2 W	251795 1999 TU ₂	4.904	0.52	2 W
248105 2004 RT ₁₀₂	41.868	0.35	2 W	251932 1999 VW ₂₁₀	8.904	0.79	2 W
248138 2004 SA ₆₃	6.344	0.71	2 W	252071 2000 SM ₂₀₈	6.221	0.79	2 W
248140 2004 SJ ₆₂	18.968	0.57	2 W	252079 2000 SY ₃₀₆	376.026	0.74	2 W
248220 2005 EK ₁₇₇	8.8	0.19	1 W	252080* 2000 SF ₃₃₈	2.74	0.95	3- W
248227* 2005 ES ₂₀₇	5.88	0.37-0.39	2 W	252125 2000 WK ₁₄₇	69.381	0.61	2 W
248424 2005 SW ₂₂₀	38.679	0.37	2 W	252216 2001 KH	6.425	0.38	2 W
248503 2005 UN ₄₈₀	142.740	0.90	2 W	252309 2001 RC ₉₀	10.064	0.27	2 W
248544 2005 XJ ₂₄	27.098	0.63	2 W	252337 2001 SN ₁₁₄	5.747	0.26	2 W
248705 2006 MY ₁₄	23.236	0.08	1 W	252352 2001 SM ₁₆₂	19.032	0.74	2 W
248801 2006 SJ ₁₂₂	4.67	0.34	1+ W	252364* 2001 SX ₂₃₀			HNW
248807 2006 SC ₁₄₈	3.254	0.12	2- W	252370* 2001 SD ₂₅₆	2.77	0.59	2 W
248818 2006 SZ ₂₁₇	3.2474	0.09-0.14	2	252383 2001 SX ₃₂₄	7.243	0.47	2 W
248896 2006 UE ₂₇₀	8.50	0.55	2 W	252427 2001 TR ₁₃₇	3.339	0.24	2 W
248964 2006 YA ₁₆	10.818	0.65	2 W	252444 2001 TB ₁₉₂	36.851	0.55	2 W
248981 2007 EB ₁₄	6.218	0.36	2 W	252461 2001 TS ₂₃₃	353.871	0.48	2 W
249103 2007 VO ₂₄₄	4.218	0.29	2 W	252474 2001 UH ₂₃	6.693	0.48	2 W
249177 2008 CT ₆₃	7.272	0.48	2 W	252489 2001 US ₈₄	44.583	0.34	2 W
249387 2009 BN ₇₆	4.742	0.69	2 W	252535 2001 VV ₃₁	58.346	0.67	2 W
249416 2009 DN ₆₉		0.9	I	252541 2001 VE ₆₀	5.242	0.71	2 W

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Planet	Period	Variation	Note	Planet	Period	Variation	Note
252591 2001 XO ₁	3.2	0.30	1+	256635 2007 VA ₂₈₂	4.950	0.64	2 W
252600* 2001 XA ₄₄	22.58	1.81	1 DAW	256700 2008 AG ₃	5.1	0.45	2
252602* 2001 XD ₄₈	7.01	0.70	2 W	256787 2008 CK ₂₃	15.811	0.80	2 W
252636 2001 XA ₂₂₀	12.197	0.73	2 W	257003* 2008 ED ₁₅₁	5.19	0.84	3- W
252656 2001 YD ₁₁₀	32.872	0.46	2 W	257168 2008 HA ₆₉	5.578	0.54	2 W
252660 2001 YA ₁₂₈	23.394	0.76	2 W	257183 2008 JP ₃₉	4.555	0.60	2 W
252702* 2002 CB ₉₁	>48.	>0.6	2	257325* 2009 HN ₉₉	4.62	0.38	2+ W
252724 2002 CN ₂₂₈	7.01	0.11	2	257370 2009 OR ₂₄	11.302	0.71	2 W
252793* 2002 FW ₅	61.2	0.33	2 B?	257404 2009 SF ₃₁₅	6.98	0.60	3- W
252965 2002 PA ₁₃₉	31.408	0.62	2 W	257405 2009 SG ₃₃₀	6.876	0.22	2+ W
252966 2002 PJ ₁₃₉	12.397	1.14	2 W	257463 1992 WW ₆	6.3660	0.75	2
252968 2002 PM ₁₅₅	3.281	0.2	1 W	257555 1998 SM ₁₀₄	5.455	0.39	2 W
253074 2002 TK ₁₃₉	6.142	0.75	3 W	257556* 1998 SF ₁₇₄			W
253106* 2002 UR ₃	180.	0.05-0.36	2 T?	257631 1999 TK ₁₇₅	13.170	0.49	2 W
253123 2002 VG ₉	5.653	0.67	2 W	257689 1999 VQ ₁₉₇	5.091	0.78	2 W
253127 2002 VA ₁₄	6.750	0.73	2 W	257713 1999 XL ₁₃₈	6.939	0.64	2 W
253134 2002 VC ₃₀	55.079	0.49	2 W	257744 2000 AD ₂₀₅		0.28	N
253198 2002 XO ₆₀	114.457	0.67	2 W	257800 2000 EO ₃₅	4.116	0.51	2 W
253220 2002 YC ₂	7.946	0.55	2 W	257803 2000 EC ₇₅	6.483	0.30	2 W
253228 2002 YZ ₁₆	78.837	0.39	2 W	257838* 2000 JQ ₆₆	11.094	0.60-0.63	3
253348* 2003 FP ₇₁	37.	0.45	2-	258039 2001 KF ₄₁	4.580	0.55	2 W
253384* 2003 KQ ₃	1.47	0.45	1 W	258207* 2001 SJ ₃₃₂	7.94	0.90	1 DAW
253424 2003 QR ₄₉	5.157	0.65	2 W	258309* 2001 UM ₁₇₁	9.90	0.70	1 DAW
253475 2003 SJ ₅₅	2.181	0.78	2 W	258379* 2001 XR ₃₄	4.09	0.37	2 W
253493* 2003 SG ₉₅	5.878	0.81	2 AW	258439* 2001 XF ₂₃₁	6.98	0.60	1 DAW
253513 2003 SE ₁₅₂	5.718	0.78	2 W	258476 2002 AM ₁₃	247.043	0.75	2 W
253516 2003 SH ₁₆₀	9.969	0.36	2 W	258597 2002 CJ ₂₀₄	11.40	0.32	2- W
253526 2003 SP ₁₈₈	8.783	0.51	2 W	258643 2002 EL ₄₀	4.850	0.79	2 W
253531 2003 SQ ₁₉₈	10.158	0.82	2 W	258798* 2002 LX ₈	18.12	0.32	1+ DAW
253539 2003 SX ₂₂₃	56.998	0.86	2 W	258817 2002 NY ₅₇	113.776	0.60	2 W
253679 2003 UY ₂₂₃	4.519	0.54	2 W	259083* 2002 VS ₃₁	7.22	0.65	1+ DAW
253725 2003 WC ₉	6.497	0.72	2 W	259092 2002 VX ₁₀₂	6.925	0.25	2 W
253734 2003 WF ₃₀	6.182	0.47	2 W	259110* 2002 WT ₁₈	5.52	0.71	2 W
253827 2003 YQ ₇₄	43.856	0.10	1 W	259120 2002 XM ₂₆	20.498	0.84	2 W
253841* 2003 YG ₁₁₈	2.27	0.11-0.11	2-	259124 2002 XW ₃₁	38.	0.5	1+ W
253879 2004 BO ₃₁	4.553	0.28	2 W	259426* 2003 SK			HNW
253904 2004 BL ₁₄₄	5.234	0.57	2 W	259485* 2003 SS ₂₁₅			HNW
254070 2004 HK ₄₂	11.84	0.22	1+	259488 2003 SK ₂₂₄	5.719	0.60	2 W
254107 2004 LA ₂₂	42.847	0.68	2 W	259489 2003 ST ₂₂₇	2.852	0.42	2 W
254168 2004 QM ₁₀	6.702	0.58	2 W	259502 2003 SL ₂₈₄	7.343	0.57	2 W
254214 2004 RU ₉₁	78.974	0.54	2 W	259709 2003 YP ₄₇	9.859	0.63	2 W
254245 2004 RY ₁₄₇	10.978	0.45	2 W	259753 2004 AY	6.745	0.60	2 W
254337 2004 SV ₄₂	6.272	0.74	2 W	259774 2004 BU ₂₂	6.50	0.18	1 W
254396 2004 TB ₂₃₀	3.202	0.29	2 W	259791 2004 BD ₅₉	7.088	0.40	2 W
254442 2005 AZ ₆₁	4.861	0.71	2 W	259805 2004 BW ₉₅	5.791	0.12	1 W
254451 2005 CL ₁	54.058	0.51	2 W	259838* 2004 CC ₄₂			HNW
254486 2005 EO ₂₆	3.910	0.23	2 W	259868 2004 CM ₁₁₄	6.122	0.74	2 W
254526* 2005 EK ₁₁₉	2.21	0.17	2 W	259969* 2004 FQ ₂₈			HNW
254637 2005 JX ₉₃	19.714	0.37	2 W	260048 2004 GB ₈₂	7.385	0.34	2 W
254679 2005 LU ₅₀	71.	0.8	2	260141 2004 QT ₂₄	7.664	0.75	3- W
254687 2005 MS ₁₆	5.267	0.38	2 W	260564* 2005 EH ₂₂₀	5.49	0.58	2- W
254775 2005 QZ ₄₁	6.078	0.59	2 W	260605* 2005 GS ₁₅			HNW
254776 2005 QD ₄₃	10.576	0.51	2 W	260618* 2005 GU ₄₅			HNW
255093 2005 UW ₄₈	3.158	0.41	2 W	260691* 2005 JP ₉₈	2.47	0.27	2- W
255094 2005 UM ₄₉	8.185	0.45	2 W	260701 2005 JV ₁₂₀	9.24	0.95	3
255129 2005 UC ₁₃₀	6.4083	0.20		260873* 2005 QV ₁₁₂	6.76	0.83	2 W
255214 2005 UQ ₃₅₄	8.907	0.87	2 W	261299 2005 UK ₁₈₁	2.960	0.52	2 W
255376 2005 WW ₁₁₇	9.130	0.79	2 W	261345 2005 UB ₂₇₅	7.1	0.7	2
255487 2006 AT ₄	4.116	0.47	2 W	261654 2005 YH ₉₉	8.924	0.56	2 W
255623 2006 PV ₂₅	59.226	0.52	2 W	261987 2006 QR ₂₉	4.836	0.18	2 W
255649* 2006 QO ₁₉	6.04	0.53	2 W	261996* 2006 QB ₄₃	3.03	0.69	2- W
255668 2006 QC ₃₆	7.634	0.51	2 W	262064 2006 RD ₄₂	5.241	0.28	2- W
255746 2006 RC ₆	9.96	0.20	1 W	262104 2006 RD ₁₀₁	2.341	0.18	2- W
255755 2006 RX ₂₇	5.844	0.57	2 W	262343 2006 TY ₅₄	8.183	0.71	2 W
255761 2006 RM ₄₂	9.25	0.22	1 W	262418 Samofalov	5.887	0.71	2 W
255767 2006 RB ₅₇	19.16	0.20	1 W	262476* 2006 UM ₁₇₅			HNW
255787 2006 RF ₁₀₀	4.658	0.37	2 W	262623 2006 WY ₂	16.3	0.14	2 A
255828* 2006 SC ₈₆	1.73	0.15	1+	262903* 2007 CC ₄₆	10.32	0.57	1 DAW
256033 2006 UJ ₄₇	0.64190	0.08	1 W	263198* 2007 YX ₆₀	6.44	0.60	2 W
256085 2006 UK ₂₀₇	3.716	0.04	1 W	263336* 2008 CC ₈₃	4.32	0.29	2 W
256114 2006 UD ₂₉₁	7.059	0.67	2 W	263394 2008 DY ₆	8.141	0.65	2 W
256138* 2006 VQ ₁₅	6.15	0.62	2 W	263626 2008 GS ₄₂	7.254	0.55	2 W
256150 2006 VE ₃₄	6.578	0.77	2 W	263670* 2008 GQ ₁₁₄	5.03	2.11	2+ W
256165* 2006 VW ₅₄	4.10	1.11	1+	263754* 2008 JS ₃₄	5.11	0.75	1+ W
256207 2006 VD ₁₀₃	6.933	0.71	2 W	263793* 2008 QE ₃₇	10.47	0.72	2 W
256248 2006 WD ₂₇	19.148	0.70	2 W	263809* 2008 RU ₅₅	6.5	0.17	2- W
256284 2006 WJ ₁₁₅	13.710	0.72	2 W	263975 2009 KY ₂	7.166	0.25	2 W
256286* 2006 WC ₁₁₆	4.68	0.18	2 W	263976 2009 KD ₅	2.664	0.15	2+ W
256357 2006 XH ₅₇	325.068	0.74	2 W	264068 2009 SQ ₁₄₈	9.69	0.65	2- W
256448 2007 CR ₄₁	6.962	0.59	2 W	264157 2009 YM	13.588	0.62	2 W

MINOR PLANET LIGHTCURVE PARAMETERS

Planet	Period	Variation	Note	Planet	Period	Variation	Note
264331* 1999 <i>UG</i> ₄₇	5.85	0.61	2 W	269433* 2009 <i>SL</i> ₁₆₃			HNW
264414 2000 <i>OW</i> ₂	8.789	0.25	2 W	269505* 2009 <i>UA</i> ₈₉	3.16	0.66	1 W
264421 2000 <i>QF</i> ₂₀₄	5.822	0.59	2 W	269633 2011 <i>AJ</i> ₄₄	15.744	0.61	2 W
264549* 2001 <i>SP</i> ₂₀₄	4.78	1.03	3- W	269640 2011 <i>AM</i> ₇₄	2.727	0.27	2 W
264566* 2001 <i>TG</i> ₃₂	12.15	1.4	2- W	269656* 1995 <i>CD</i> ₅			HNW
264700 2002 <i>AB</i> ₁₂₀	4.825	0.61	2 W	269719 1998 <i>QH</i> ₅₆	5.112	0.39	2 W
264835 2002 <i>QD</i> ₃₆	7.137	0.45	2 W	269751 1999 <i>AC</i> ₃₂	8.698	0.36	2 W
264853 2002 <i>RA</i> ₅₅	9.737	0.69	2 W	269754 1999 <i>RV</i> ₁₀₄	10.256	0.32	2 W
264901* 2002 <i>TY</i> ₈₆			HNW	269763 1999 <i>TD</i> ₃₂	3.857	0.57	2 W
264935 2002 <i>VW</i> ₄₀	7.750	0.50	2 W	269858* 2000 <i>EB</i> ₄			HNW
264975* 2003 <i>BF</i> ₃₉	7.22	0.50	2+ W	269915* 2000 <i>JA</i> ₄₂			HNW
264986 2003 <i>CK</i> ₁₁	6.444	0.65	2 W	270033 2001 <i>KN</i> ₃₀	3.034	0.77	2 W
265039* 2003 <i>PM</i> ₁	4.95	0.46	1+ W	270064* 2001 <i>OJ</i> ₉₀	6.08	0.73	2- W
265125 2003 <i>UT</i> ₁₃₄	68.612	0.89	2 W	270140 2001 <i>SV</i> ₅	6.683	0.75	2 W
265164 2003 <i>WD</i> ₁₃₄	5.952	0.46	2 W	270158 2001 <i>SP</i> ₁₃₇	37.896	0.61	2 W
265170* 2003 <i>WJ</i> ₁₄₇			HNW	270185 2001 <i>SP</i> ₂₇₇	12.240	0.35	2 W
265176 2003 <i>YV</i> ₈	9.967	0.25	2 W	270213* 2001 <i>TN</i> ₁₃₉	8.617	0.62-0.71	2 W
265178 2003 <i>YZ</i> ₁₈	3.139	0.61	2 W	270247 2001 <i>UG</i> ₂₅	7.914	0.55	2 W
265325 2004 <i>NS</i> ₂₄	9.583	0.24	2 W	270248 2001 <i>UJ</i> ₂₅	5.850	0.54	2 W
265542 2005 <i>OM</i> ₂	14.049	0.66	2 W	270253 2001 <i>UE</i> ₃₆	52.738	0.51	2 W
265543 2005 <i>OM</i> ₃	7.956	0.07	1 W	270325 2001 <i>XC</i> ₁₀₄	154.359	0.89	2 W
265550* 2005 <i>OL</i> ₁₉			HNW	270370* 2001 <i>YF</i> ₁₃₉	3.43	0.26	2 W
265640* 2005 <i>TF</i> ₂₅	4.44	0.61	2 W	270426* 2002 <i>CM</i> ₇₁	5.39	1.06	2 W
265652* 2005 <i>TK</i> ₁₂₁			HNW	270626 2002 <i>PA</i> ₃₄	27.068	0.50	2 W
266023 2006 <i>FG</i> ₃₅	4.387	0.49	2 W	270645 2002 <i>PR</i> ₁₁₂	12.437	0.26	2 W
266199 2006 <i>WH</i> ₂	>16.	>0.3	2- W	270648 2002 <i>PK</i> ₁₃₀	7.386	0.43	2 W
266229 2006 <i>XC</i> ₈	4.386	0.70	2 W	270739 2002 <i>RC</i> ₁₀	5.462	0.42	2 W
266250* 2006 <i>YO</i> ₁	3.10	0.53	2+ W	270742 2002 <i>RV</i> ₂₈	5.573	0.76	2 W
266312 2007 <i>CY</i> ₃₇	183.546	0.53	2 W	270781 2002 <i>RT</i> ₂₀₀	4.995	0.33	2 W
266398* 2007 <i>EC</i> ₁₈₃	6.58	0.94	2+ W	270808* 2002 <i>RS</i> ₂₆₄			HNW
266417* 2007 <i>FX</i> ₄₃	6.40	1.16	2+ W	270877 2002 <i>TN</i> ₁₈₅	4.330	0.41	2 W
266433 2007 <i>GM</i> ₇₅	8.889	0.36	2 W	270895* 2002 <i>TE</i> ₂₅₂			HNW
266516 2008 <i>EU</i> ₁₃₇	51.415	0.34	2 W	270928 2002 <i>UD</i> ₃₇	2.46	0.35	2 W
266553 2008 <i>GX</i> ₃₂	2.963	0.44	2 W	270994* 2002 <i>XV</i> ₃₉			HNW
266571* 2008 <i>GW</i> ₁₂₉			HNW	271005* 2002 <i>XN</i> ₉₄			HNW
266607* 2008 <i>LV</i> ₁₅			HNW	271087* 2003 <i>QL</i> ₇			HNW
266652* 2008 <i>TA</i> ₃₀	6.91	0.49	1 W	271100 2003 <i>QZ</i> ₉₂	4.140	0.75	2 W
266780 2009 <i>SB</i> ₂₁₈	5.125	0.09	1 W	271222 2003 <i>TY</i> ₃₇	4.010	0.49	2 W
266796* 2009 <i>SW</i> ₃₁₃	2.42	0.92	1+ W	271445* 2004 <i>EC</i> ₁₂	7.577	0.59-0.77	2 W
266931 2010 <i>JZ</i> ₁₁₉	6.08	0.36	2 W	271575* 2004 <i>LQ</i> ₁₂			HNW
266992 2010 <i>XR</i> ₄₃	>350.			271624 2004 <i>PR</i> ₅₅	7.439	0.93	2 W
267000 6229 <i>P-L</i>	30.295	0.59	2 W	271680* 2004 <i>RY</i> ₈₀	5.406	0.51-0.71	2 W
267011 1994 <i>PQ</i> ₂₆	2.457	0.08	1 W	271713 2004 <i>RU</i> ₂₀₀	4.19	0.65	2 W
267024 1995 <i>XK</i> ₃	5.25	0.68	2 W	271716 2004 <i>RY</i> ₂₁₂	19.357	0.77	2 W
267047* 1998 <i>RK</i> ₄₀	6.698	0.39-0.41	2 W	271737* 2004 <i>RD</i> ₂₉₃			HNW
267129* 2000 <i>EU</i> ₁₃			HNW	271745* 2004 <i>RM</i> ₃₂₄	8.54	0.55	1 DAW
267190 2000 <i>QO</i> ₂₀₀	3.590	0.38	2 W	271852* 2004 <i>TR</i> ₂₄₈			HNW
267218 2000 <i>WS</i> ₁₀₃	4.408	0.59	2 W	271918* 2004 <i>XB</i> ₄₄	5.16	0.43	1+ W
267223 2001 <i>DQ</i> ₈	4.11	0.38	3- W	272157* 2005 <i>NU</i> ₈₁			HNW
267256* 2001 <i>QR</i> ₄₄			HNW	272198* 2005 <i>QC</i> ₁₅			HNW
267317 2001 <i>TF</i> ₂₁₀	2.986	0.44	2 W	272214* 2005 <i>QD</i> ₄₂	20.278	0.58-0.59	2 W
267320* 2001 <i>TV</i> ₂₆₀	4.27	1.23	2- W	272262 2005 <i>QJ</i> ₁₇₂	9.043	0.62	2 W
267337 2001 <i>VK</i> ₅	39.05	0.92	2 T?	272294 2005 <i>SA</i> ₂₁	3.21	0.43	2 W
267356* 2001 <i>XW</i> ₅	8.54	0.70	1 DAW	272525 2005 <i>UE</i> ₂₇₃	34.841	0.56	2 W
267494 2002 <i>JB</i> ₉	2.4261	0.12-0.21	N	272552* 2005 <i>UJ</i> ₄₁₉			HNW
267605* 2002 <i>RG</i> ₉₂			HNW	272555 2005 <i>UE</i> ₄₄₂	4.935	0.51	2 W
267640* 2002 <i>SY</i> ₄₁			HNW	272589 2005 <i>VA</i> ₅₈			W
267677 2002 <i>TG</i> ₃₈₅	5.020	0.50	2 W	272594 2005 <i>VE</i> ₉₁	4.687	0.33	2 W
267681* 2002 <i>UV</i> ₁₈			HNW	272622 2005 <i>WU</i> ₃₈	5.150	0.53	2 W
267729 2003 <i>FC</i> ₅	129.5	>0.5	NT0	272632 2005 <i>WF</i> ₇₁	2.408	0.36	2 W
267884* 2003 <i>YH</i> ₆₉			HNW	272638 2005 <i>WL</i> ₇₉	5.974	0.45	2 W
267951* 2004 <i>EA</i> ₈₄			HNW	272650* 2005 <i>WV</i> ₁₄₄	5.33	1.06	2 W
267981* 2004 <i>GF</i> ₄			HNW	272655 2005 <i>WD</i> ₁₇₁			W
267987* 2004 <i>GU</i> ₅₆			HNW	272714* 2005 <i>YM</i> ₃₅			HNW
268010* 2004 <i>KH</i> ₄			HNW	272769* 2005 <i>YL</i> ₁₇₆			HNW
268015 2004 <i>NR</i> ₇	55.580	0.91	2 W	272833* 2006 <i>BV</i> ₁	5.33	0.87	2 W
268021 2004 <i>NU</i> ₂₄	6.561	0.68	2 W	272841* 2006 <i>BG</i> ₁₈	4.85	0.72	2 W
268023 2004 <i>NA</i> ₂₈	4.948	0.51	2 W	272853* 2006 <i>BH</i> ₃₉	3.87	0.62	1+ W
268265 2005 <i>OF</i> ₅	7.06	0.69	2 W	272872 2006 <i>BY</i> ₈₁	7.650	0.71	2 W
268611* 2006 <i>CY</i> ₃₀	1.46	0.55	2- W	272942 2006 <i>BU</i> ₂₇₆	73.129	0.72	2 W
268623 2006 <i>DT</i> ₂₂	7.015	0.68	2 W	273001 2006 <i>DJ</i> ₆₈	7.057	0.46	2 W
268867* 2006 <i>YL</i> ₃₈			HNW	273019* 2006 <i>DE</i> ₉₁	3.14	0.50	2 W
268896* 2007 <i>BS</i> ₄₁			HNW	273168* 2006 <i>HH</i> ₆₄			HNW
268902* 2007 <i>BH</i> ₅₈			HNW	273270 2006 <i>MZ</i> ₅	17.750	0.59	2 W
268906* 2007 <i>CR</i> ₃			HNW	273283* 2006 <i>RL</i> ₁₈	8.97	0.49	2 W
268924* 2007 <i>CO</i> ₅₁			HNW	273303* 2006 <i>SL</i> ₁₄₁			HNW
268950* 2007 <i>DJ</i> ₅₁	5.13	0.75	2- W	273498 2007 <i>AX</i> ₁₈	9.100	0.36	2 W
269125 2007 <i>PF</i> ₃₇	4.895	0.68	2 W	273551* 2007 <i>BY</i> ₆₁			HNW
269189 2008 <i>GZ</i> ₅₀	4.71	0.62	2 W	273692* 2007 <i>EY</i> ₃₂			HNW
269374 2009 <i>AF</i> ₁₇	33.961	0.35	2 W	273834 2007 <i>GO</i> ₂₅	6.483	0.72	2 W

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Planet	Period	Variation	Note	Planet	Period	Variation	Note
273848* 2007 <i>GO</i> ₄₄			HNW	278973 2008 <i>UO</i> ₁₅₉	5.447	0.83	2 W
273976 2007 <i>LN</i> ₁₃	5.754	0.17	2 W	278983 2008 <i>UM</i> ₁₉₀	3.760	0.19	2 W
274022* 2007 <i>RZ</i> ₁₈			HNW	278984 2008 <i>UZ</i> ₁₉₃	3.568	0.51	2 W
274025 2007 <i>RM</i> ₂₂	4.258	0.28	2 W	279010 2008 <i>UN</i> ₂₈₁	3.688	0.47	2 W
274026 2007 <i>RT</i> ₂₉	164.417	0.51	2 W	279037* 2008 <i>VU</i> ₁₃			HNW
274138 2008 <i>FU</i> ₆	2.852	0.07–0.07	2	279043 2008 <i>VT</i> ₃₃	9.366	0.65	2 W
274198* 2008 <i>HY</i> ₂₂	6.364	0.56–0.70	2 W	279121 2009 <i>OP</i> ₂₂	126.530	0.10	1 W
274231 2008 <i>KJ</i> ₄₀	4.68	0.87	2 W	279208 2009 <i>UQ</i> ₃₅	499.588	0.46	2 W
274444* 2008 <i>SR</i> ₄₇	12.00	0.61	1 DAW	279424* 2010 <i>JY</i> ₁₅₁			HNW
274659 2008 <i>TV</i> ₁₅₇			W	279501* 2011 <i>AE</i> ₄₃			HNW
274707 2008 <i>UG</i> ₁₀₀	6.082	0.76	2 W	279536 2011 <i>CV</i>	9.189	0.72	2 W
274881 2009 <i>SE</i> ₂₅	4.55	0.37	2 W	279586* 2011 <i>EE</i>	6.23	0.73	2 W
274959* 2009 <i>SS</i> ₃₀₄			HNW	279652 2011 <i>FJ</i> ₄	5.22	0.55	2 W
275073 2009 <i>UX</i> ₁₃₉	12.859	0.65	2 W	279678 2011 <i>FP</i> ₃₂	8.654	0.41	2 W
275173* 2009 <i>WX</i> ₃₃			HNW	279740* 1998 <i>BO</i> ₆			HNW
275255 2009 <i>XB</i> ₂₅	4.993	0.99	2 W	280009 2001 <i>VM</i> ₆	3.76	0.29	2 W
275300 2010 <i>OH</i> ₁₁₈	134.452	0.80	2 W	280070* 2002 <i>CR</i> ₁₉₂			HNW
275538 1998 <i>RA</i> ₆₃	8.652	0.37	2 W	280084 2002 <i>CZ</i> ₂₉₅	7.80	0.39	2 W
275551* 1999 <i>ED</i> ₁₀	6.651	0.54–0.58	2 W	280225* 2002 <i>UT</i> ₅₈	4.07	0.65	1+ W
275557 1999 <i>RE</i> ₃₀	15.215	0.41	2 W	280308 2003 <i>QP</i> ₅₈	2.23	0.44	2 W
275611* 1999 <i>XX</i> ₂₆₂	15.112	0.14–0.16	2	280343 2003 <i>SA</i> ₁₇₆	11.015	0.82	2 W
275672* 2000 <i>QQ</i> ₁₃₆			HNW	280427* 2003 <i>YH</i> ₅₆			HNW
275677 2000 <i>RS</i> ₁₁	4.444	0.70–1.37	3	280589 2004 <i>TX</i> ₃₄₈	114.717	0.46	2 W
275681* 2000 <i>SQ</i> ₃₃	9.007	0.74–0.76	2 W	280781 2005 <i>SO</i> ₁₂₉	5.091	0.66	2 W
275694 2000 <i>SZ</i> ₂₈₁	6.481	0.55	2 W	281012 2006 <i>EA</i> ₁₁	2.36	0.43	2 W
275721* 2001 <i>AS</i> ₅			HNW	281026 2006 <i>GU</i> ₄	4.27	0.46	2 W
275809* 2001 <i>QY</i> ₂₉₇	11.68	0.49	2 B	281052* 2006 <i>HH</i> ₁₅₃			HNW
275864 2001 <i>SP</i> ₁₇₅	6.677	0.82	2 W	281122* 2007 <i>BW</i> ₅₇	6.836	0.67–0.98	2 W
275898 2001 <i>TM</i> ₈₁	6.368	0.57	2 W	281375 2008 <i>JV</i> ₁₉	3.500	0.30	3–
275911 2001 <i>TD</i> ₁₄₉	5.68	0.79	2 W	281702* 2008 <i>WT</i> ₇₉			HNW
275912 2001 <i>TW</i> ₁₄₉	5.804	0.61	2 W	281807* 2009 <i>WC</i> ₇₆			HNW
275955 2001 <i>VY</i> ₆₈	6.86	0.51	2 W	281823* 2009 <i>XQ</i> ₂₄			HNW
275961 2001 <i>VU</i> ₁₂₈			W	281826* 2009 <i>YG</i> ₂₀			HNW
275971* 2001 <i>WS</i> ₉₁	5.062	0.64–0.96	2 W	281981 2011 <i>HJ</i> ₁₂	9.23	0.89	2 W
275974* 2001 <i>XD</i>	26.1	0.50	2 T0	282077* 2000 <i>ER</i> ₁₄₂	10.819	0.56–0.77	2 W
276003* 2001 <i>YE</i> ₇	7.24	0.55	1 DAW	282081 2000 <i>NG</i>	6.59	0.33	2 W
276049 2002 <i>CE</i> ₂₆	3.2930	0.06–0.07	3 p RAB	282115 2000 <i>YS</i> ₉₇	36.225	0.48	2 W
276247* 2002 <i>RE</i> ₁₇₆	5.852	0.53–0.54	2 W	282192 2001 <i>TB</i> ₂₂₉	38.436	0.58	2 W
276291 2002 <i>TL</i> ₅₉	43.100	0.69	2 W	282631 2005 <i>SV</i> ₁	16.8	0.31	N
276624* 2003 <i>UW</i> ₁₃₉			HNW	282694 2006 <i>AO</i> ₅	11.85	0.21	2 W
276684* 2003 <i>YS</i> ₃₆			HNW	282705 2006 <i>BD</i> ₉₆	2.68	0.32	2 W
276698* 2004 <i>AA</i> ₇			HNW	282774 2006 <i>JA</i> ₄₉	53.779	0.81	2 W
276738* 2004 <i>ET</i> ₄₂	4.925	0.71–0.93	2 W	282858* 2007 <i>CX</i> ₁₂	15.48	1.05	2–
276741 2004 <i>EM</i> ₆₆	4.56	0.15	2 A	283057 Casteldipiazza	3.92	0.84	2 W
276760 2004 <i>GA</i> ₁₉	6.58	0.73	2 W	283252 2011 <i>EL</i> ₅₃	8.28	0.68	2 W
276786 2004 <i>KD</i> ₁	5.018	0.59	2 W	283265 2011 <i>FM</i> ₁₅₅	9.283	0.58	2 W
276946* 2004 <i>TU</i> ₂₆₆			HNW	283401 2000 <i>SV</i> ₁₅	502.040	0.37	2 W
276996* 2004 <i>XA</i> ₄₇			HNW	283460 2001 <i>PD</i> ₁	14.58	0.12	NA
276998 2004 <i>XE</i> ₅₂	3.831	0.50	2 W	283603 2001 <i>YH</i> ₁₅₃	16.714	0.43	2 W
277011* 2004 <i>YZ</i> ₂₁	21.34	0.55	1+ DAW	283606 2002 <i>AX</i> ₉₆	14.142	0.46	2 W
277142 2005 <i>LG</i> ₈	4.63	0.62	2 W	283633 2002 <i>EG</i> ₅	5.30	0.95	2 W
277192 2005 <i>QS</i> ₃₅	8.00	0.81	2 W	283741* 2002 <i>XH</i> ₁₁₈	6.48	0.59–0.75	2 W
277293 2005 <i>SN</i> ₁₀₆	4.64	0.40	2 W	283764 2003 <i>GW</i> ₈	4.29	0.40	2 W
277373 2005 <i>UD</i> ₂₀	177.552	0.95	2 W	283912* 2004 <i>FP</i> ₁₁₁			HNW
277390* 2005 <i>UM</i> ₁₂₅			HNW	284441* 2007 <i>EN</i> ₃₇	6.76	0.90	1 DAW
277475 2005 <i>WK</i> ₄	2.595	0.25–0.29	2+ W	284675 2008 <i>RA</i> ₇₀	>6.	>0.6	1 W
277570 2005 <i>YP</i> ₁₈₀	3.689	0.27	3	284772 2008 <i>WM</i> ₁₂₁	6.00	0.39	2 W
277574* 2005 <i>YR</i> ₁₉₂			HNW	284925* 2010 <i>CY</i> ₁₀₃	5.668	0.70–0.74	2 W
277616 2006 <i>BN</i> ₆	5.45	0.31	2	284970 2010 <i>FP</i> ₁₀₀	2.56	0.43	2 W
277645* 2006 <i>BW</i> ₁₁₂			HNW	284975* 2010 <i>GG</i> ₂₇			HNW
277650* 2006 <i>BJ</i> ₁₃₀	4.12	0.54	2+ W	285032 2011 <i>EX</i> ₂₆	140.919	0.55	2 W
277866* 2006 <i>JP</i> ₃₂			HNW	285036* 2011 <i>EJ</i> ₅₁			HNW
278095* 2007 <i>BW</i> ₂₇			HNW	285106* 1995 <i>FL</i> ₇			HNW
278112 2007 <i>CK</i>	3.98	0.18	2 W	285263 1998 <i>QE</i> ₂	4.749	0.19–0.20	3 RB
278184 2007 <i>DR</i> ₉₈	5.08	0.84	2 W	285405 1999 <i>UZ</i> ₃	78.034	0.58	2 W
278198* 2007 <i>EO</i> ₁₂			HNW	285409 1999 <i>UF</i> ₃₂	6.67	0.82	2 W
278217* 2007 <i>EK</i> ₅₄			HNW	285417 1999 <i>VH</i> ₄₆	20.581	0.87	2 W
278258* 2007 <i>EH</i> ₂₁₄			HNW	285540 2000 <i>GU</i> ₁₂₇	>24.	>0.1	N
278361* 2007 <i>JJ</i> ₄₃	12.097	0.10–0.13	2 W	285641 2000 <i>SN</i> ₁₆	5.834	0.69	2 W
278451 2007 <i>TO</i> ₂₂	19.130	0.42	2 W	285671 2000 <i>SY</i> ₁₁₈	92.641	0.66	2 W
278533* 2008 <i>EP</i> ₄₇			HNW	285805* 2000 <i>YV</i> ₂₇			HNW
278553* 2008 <i>FL</i> ₉₆			HNW	285840* 2001 <i>FP</i> ₄₉	5.00	0.60	2 W
278564* 2008 <i>GK</i> ₉₇			HNW	285944 2001 <i>RZ</i> ₁₁	2.2455	0.10–0.11	2 A
278573* 2008 <i>HF</i> ₂₆			HNW	286096 2001 <i>TR</i> ₄₇	11.03	0.62	2 W
278577* 2008 <i>HG</i> ₄₀			HNW	286176* 2001 <i>UD</i> ₄₃			HNW
278648 2008 <i>RY</i> ₃₇	4.666	0.48	2 W	286227 2001 <i>UV</i> ₁₄₀	5.82	0.30	3–
278686* 2008 <i>RN</i> ₁₁₅	5.03	1.18	2 W	286322 2001 <i>WD</i> ₈₃	3.14	0.76	2 W
278807* 2008 <i>SQ</i> ₂₄₄	6.32	1.04	2 W	286340 2001 <i>XS</i> ₄₃	5.61	0.26	2 W
278856* 2008 <i>TZ</i> ₂₂	4.12	0.86	2 W	286750* 2002 <i>GU</i> ₁₇₁	5.55	0.67	2+ W
278889 2008 <i>TC</i> ₈₈	13.15	0.71	2 W	286771 2002 <i>JF</i> ₂₃	8.584	0.31	2 W

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Planet	Period	Variation	Note	Planet	Period	Variation	Note
286836 2002 <i>NX</i> ₃₈	5.44	0.68	2 W	298216 2002 <i>TT</i> ₃₇₅	8.250	0.78	2 W
286901 2002 <i>PU</i> ₆₄	5.959	0.76	2 W	298305 2003 <i>DO</i>	4.50	0.73	2 W
287110 2002 <i>RC</i> ₁₆₀	7.30	0.17	1 W	298312 2003 <i>EE</i> ₁₈	5.08	0.71	2 W
287190 2002 <i>SL</i> ₄	7.058	0.93	2 W	298929 2004 <i>TQ</i> ₁₆₀	7.272	0.73	2 W
287254* 2002 <i>TT</i> ₁₀₁	5.722	0.57–0.65	2 W	299146 2005 <i>EU</i> ₂₆₆	10.291	0.56	2 W
287471 2003 <i>AK</i> ₄₆	2.75	0.33	2 W	299209 2005 <i>JN</i> ₃₆	2.91	0.71	2 W
287507 2003 <i>BQ</i> ₅₈	44.282	0.77	2 W	299262 2005 <i>NT</i> ₅₁	6.548	0.64	2 W
287659* 2003 <i>MV</i> ₉			HNW	299348 2005 <i>SU</i> ₁₇₉	5.530	0.53	2 W
287677 2003 <i>QB</i> ₄	6.593	0.37	2 W	299484 2006 <i>BX</i> ₁₈₂	8.28	0.71	2 W
287737 2003 <i>SX</i> ₅	6.574	0.68	2 W	299763 2006 <i>SE</i> ₁₂	13.249	0.47	2 W
287823 2003 <i>SK</i> ₁₉₄	7.894	0.97	2 W	299832 2006 <i>SB</i> ₁₈₈	5.65	0.43	2 W
287950 2003 <i>UG</i> ₉₃	3.542	0.35	2 W	300059 2006 <i>UV</i> ₁₈₆	6.23	0.77	2 W
288224* 2003 <i>YV</i> ₅₉	4.03	0.96	2–	300139 2006 <i>VU</i> ₅₈	6.44	0.60	2 W
288266 2003 <i>YH</i> ₁₅₄	5.146	0.45	2 W	300278* 2007 <i>LA</i> ₂₁			HNW
288286* 2004 <i>AT</i> ₁₂			HNW	300793 2007 <i>VX</i> ₃₂₁	7.496	0.15	2 W
288293* 2004 <i>AC</i> ₂₅			HNW	300798* 2007 <i>VV</i> ₃₃₁	6.586	0.55–0.70	2 W
288309* 2004 <i>BJ</i> ₃₃			HNW	300848 2007 <i>YX</i> ₁₄	21.719	0.58	2 W
288443 2004 <i>EU</i> ₄₅		0.9	I	301003 2008 <i>GU</i> ₉₈	5.032	0.55	2 W
288457 2004 <i>EE</i> ₇₅	8.344	0.40	2 W	301150 2008 <i>YB</i> ₇	0.52		N
288616 2004 <i>NV</i> ₉	4.409	0.25	2 W	301551 2009 <i>GD</i> ₂	25.260	0.70	2 W
288688 2004 <i>PY</i> ₁₀₃	5.782	0.25	2 W	301844 1990 <i>UA</i>		>0.1	
288708* 2004 <i>RB</i> ₇	8.58	0.21	1 DAW	301938 2000 <i>AD</i> ₁₃₃	7.635	0.53	2 W
288791 2004 <i>RM</i> ₁₄₁	19.719	0.39	2 W	301945 2000 <i>BC</i> ₁₅	135.280	0.44	2 W
288944* 2004 <i>SL</i> ₅₁			HNW	302201 2001 <i>UG</i> ₈₇	2.9	0.22	1 W
289007* 2004 <i>TW</i> ₈₆			HNW	302311 2002 <i>AA</i>	4.126	0.26	N
289114 2004 <i>TK</i> ₃₄₆	3.81	0.63	2 W	302513* 2002 <i>HY</i> ₅			HNW
289117 2004 <i>TV</i> ₃₅₅	4.689	0.43	2 W	302831 2003 <i>FH</i>	13.94	0.99	3– T0
289146* 2004 <i>VL</i> ₁₄			HNW	302963 2003 <i>UD</i> ₂₂₄	4.807	0.66	2 W
289431 2005 <i>EJ</i> ₂₅	6.290	0.53	2 W	303013 2003 <i>WC</i> ₁₂₅	3.8	0.21	2–
289931 2005 <i>NW</i> ₃₂	4.66	0.83	2 W	303142 2004 <i>DU</i> ₂₄	6.2501	0.73	3–
289980 2005 <i>OK</i> ₇	59.571	0.62	2 W	303143 2004 <i>DE</i> ₄₁	4.376	0.12	1 W
290206* 2005 <i>SW</i> ₃₈			HNW	303174 2004 <i>FH</i> ₁₁	2.523	0.18	3–
290351 2005 <i>SO</i> ₂₅₁	7.275	0.54	2 W	303304 2004 <i>TW</i> ₁₇	4.474	0.43	2 W
290559 2005 <i>UV</i> ₁₀₈	11.634	0.48	NA	303486 2005 <i>EJ</i> ₇₁	2.78	0.43	2 W
290723* 2005 <i>UZ</i> ₄₃₇	6.76	0.42	1 DAW	303712 2005 <i>PR</i> ₂₁			HB
291120 2005 <i>YP</i> ₁₉₉	7.54	0.71	2 W	303775 2005 <i>QU</i> ₁₈₂	9.61	0.12	NA
291277 2006 <i>BJ</i> ₁₀₀	6.420	0.70	2 W	303905 2005 <i>TV</i> ₁₅₂	3.468	0.61	2 W
291299 2006 <i>BV</i> ₁₄₀	6.154	0.76	2 W	303938 2005 <i>VS</i> ₁₃₁	6.246	0.29	NA
291447 2006 <i>DH</i> ₄₀	14.12	0.89	2 W	304256 2006 <i>RH</i> ₆₅	6.479	0.32	2 W
291901 2006 <i>QB</i> ₈	8.201	0.73	2 W	304945 2007 <i>TF</i> ₈	16.53	1.0	2+
291911 2006 <i>QV</i> ₁₁	53.213	0.79	2 W	304972 2007 <i>TF</i> ₁₅₃	5.058	0.60	2 W
291997* 2006 <i>QJ</i> ₁₁₃	5.05	0.84	3– W	305090 2007 <i>VQ</i> ₄	2.66	0.11	2+
292019 2006 <i>QP</i> ₁₄₉	4.68	0.57	2 W	305454 2008 <i>DP</i> ₄	0.0607		N
292079 2006 <i>RN</i> ₂₆	2.3274	0.20	2– W	305543 2008 <i>QY</i> ₄₀		0.15	N
292869 2006 <i>VB</i> ₆	6.096	0.54	2 W	305667 2009 <i>BF</i> ₈₃	10.837	0.35	2 W
293054 2006 <i>WP</i> ₁₂₇	5.311	0.35	2+	306100 2010 <i>HY</i> ₇₉	17.639	0.56	2 W
293404 2007 <i>EN</i> ₇₉	2.67	0.50	2 W	306173 2010 <i>NK</i> ₈₃	9.0	0.45	2 W
293628* 2007 <i>NE</i> ₁	7.172	0.74–1.15	2 W	306175* 2010 <i>TQ</i> ₂₄	3.87	0.85	2 W
293634 2007 <i>OS</i> ₄	7.437	0.23	2 W	306236 2011 <i>QR</i> ₆₇	37.125	0.93	2 W
294268* 2007 <i>UY</i> ₉₅			HNW	306638 2000 <i>SF</i> ₃₀	4.758	0.37	2 W
294282* 2007 <i>UV</i> ₁₀₈	4.82	0.74	2 W	306640 2000 <i>SJ</i> ₃₁	10.774	0.46	2 W
294377* 2007 <i>VO</i> ₁₃₂			HNW	306695 2000 <i>VL</i> ₁	9.930	0.76	3–
294622* 2008 <i>AB</i> ₃₅			HNW	306702 2000 <i>VQ</i> ₅₂	15.995	0.37	2 W
294739 2008 <i>CM</i>	3.054	0.18–0.49	3–	306769 2001 <i>BX</i> ₂	44.880	0.21	2 W
294796 2008 <i>CB</i> ₇₂	8.833	0.60	2 W	306790 2001 <i>KB</i> ₁	71.	0.85	2 T?
294822* 2008 <i>CK</i> ₁₂₇	11.85	1.00	2 W	306803* 2001 <i>QQ</i> ₆₁			HNW
294954 2008 <i>DU</i> ₈₁	3.278	0.54	2 W	307014 2001 <i>XF</i> ₆₂	8.151	0.85	2 W
295041 2008 <i>ER</i> ₉₈	3.172	0.38	2 W	307251 2002 <i>KW</i> ₁₄	8.58	0.21–0.25	2 A
295076* 2008 <i>ER</i> ₁₃₁	7.20	0.65	1 DAW	307321 2002 <i>QA</i> ₁₂₃		1.0	I
295479 2008 <i>QP</i> ₃₀	12.702	0.55	2 W	307391 2002 <i>TY</i> ₂₅	25.503	0.08	1 W
295646 2008 <i>SG</i> ₂₈₀	5.342	0.59	2 W	307425 2002 <i>TA</i> ₂₆₇	5.387	0.64	2 W
295704 2008 <i>TZ</i> ₁₈₉	5.27	0.96	2 W	307455 2002 <i>VP</i> ₅₅	4.774	0.76	2 W
295723* 2008 <i>UR</i> ₅₁			HNW	307505 2002 <i>YX</i> ₁₁	4.024	0.13	2 A
295927* 2008 <i>WZ</i> ₁₃₇	6.44	0.62	1 DAW	307517 2003 <i>AH</i> ₄₃	4.530	0.26	2 W
295930* 2008 <i>XQ</i> ₄	6.19	0.89	2– W	307551* 2003 <i>EO</i> ₂₉	5.78	0.71	2 W
296089 2009 <i>BK</i> ₁₇	12.97	0.75	2 W	307835 2003 <i>YF</i> ₆₀	8.620	0.73	2 W
296094* 2009 <i>BB</i> ₃₂			HNW	307955* 2004 <i>GA</i> ₂₃			HNW
296119* 2009 <i>BU</i> ₆₄	3.90	0.24–0.29	2 W	308193 2005 <i>CB</i> ₇₉	6.76	0.13	2+
296449 2009 <i>HM</i> ₅₉	5.491	0.60	2 W	308242 2005 <i>GO</i> ₂₁	11.00	0.24	2 A
296521 2009 <i>MZ</i> ₈	3.561	0.59	2 W	308250 2005 <i>GC</i> ₆₀	8.903	0.40	2+ W
296631* 2009 <i>SG</i> ₆₁			HNW	308335 2005 <i>OE</i> ₁₈	5.890	0.58	2 W
296697* 2009 <i>SD</i> ₂₆₉			HNW	308377 2005 <i>RM</i> ₃₀	5.924	0.58	2 W
296886* 2010 <i>AF</i> ₇₉	9.613	0.45–0.69	2 W	308543 2005 <i>UO</i> ₂₁₃	30.73	0.31	NA
296914* 2010 <i>CO</i> ₈₁	7.44	0.98	2 W	308568 2005 <i>UU</i> ₃₉₆	7.689	0.26	NA
296984* 2010 <i>ER</i> ₁₀₅	5.010	0.44–0.53	2 W	308612 2005 <i>WP</i> ₉₀	5.284	0.62	2 W
297148 2010 <i>UD</i> ₁₁	3.612	0.44	2 W	308628 2005 <i>XM</i> ₄₉	4.053	0.39	2 W
297274 1996 <i>SK</i>	4.645	0.39	3 W	308635* 2005 <i>YU</i> ₅₅	19.31	0.20–0.30	2 p AT0
297281 1997 <i>GJ</i> ₃₀			W	308771* 2006 <i>OK</i> ₁₃			HNW
297341 1999 <i>XR</i> ₁₀₂	7.930	0.76	2 W	309048 2006 <i>UG</i> ₂₅₆	10.090	0.52	2 W
297715 2001 <i>VZ</i> ₁₂₃	19.46	1.0	3– W	309092 2006 <i>VY</i> ₁₂₂	5.310	0.77	2 W

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Planet	Period	Variation	Note	Planet	Period	Variation	Note
309882* 2009 <i>DV</i> ₁₂₇			HNW	320618 2008 <i>CN</i> ₂₇	9.754	0.67	2 W
310071* 2010 <i>KR</i> ₅₉	8.988	0.29–0.37	2 W	320822 2008 <i>FH</i> ₂₇	12.783	0.67	2 W
310198 2011 <i>SU</i> ₁₂₀	4.495	0.53	2 W	321024 Gijon	4.021	0.71	2 W
310226 2011 <i>SU</i> ₂₃₀	3.788	0.10	1 W	321141* 2008 <i>UD</i> ₁₇₆			HNW
310471* 2000 <i>SS</i> ₁₀₂	2.45	0.18	1 W	321184 2008 <i>WM</i> ₁₁₄	4.49	0.61	2 W
310540 2001 <i>CC</i> ₂₈	4.550	0.21	2 W	321515 2009 <i>SK</i> ₂₀₁	14.12	0.61	2 W
310700 2002 <i>JN</i> ₁₀	3.777	0.17	2 W	321611 2009 <i>VG</i> ₅₈		1.00	I
310756* 2002 <i>RC</i> ₆₈	9.616	0.59	2 W	321659 2010 <i>CS</i> ₂₀	4.34	0.53	2 W
310842 2003 <i>AK</i> ₁₈	5.3	0.19	N	321779 2010 <i>OT</i> ₈₂	6.400	0.77	2 W
311066 2004 <i>DC</i>	2.5709	0.25	2 RB	321974 2010 <i>UF</i> ₃₄	15.473	0.66	2 W
311247* 2005 <i>EU</i> ₁₅	11.94	0.9	2– HW	321979 2010 <i>UM</i> ₄₅	6.424	0.57	2 W
311485 2005 <i>VB</i> ₅₃	6.186	0.66	2 W	321990 2010 <i>UE</i> ₆₃	32.297	0.62	2 W
311543 2005 <i>YS</i> ₂₂₀	10.506	0.53	2 W	321994 2010 <i>UY</i> ₇₄	67.398	0.43	2 W
311554 2006 <i>BQ</i> ₁₄₇	9.15	0.31	2+ W	322237* 2011 <i>BV</i> ₁₁₄	5.65	0.67	2 W
311682 2006 <i>SB</i> ₇₉	8.258	0.29	2 W	322266 2011 <i>ES</i> ₂₅	14.148	0.89	2 W
312114* 2007 <i>TG</i> ₁₇₇			HNW	322317* 2011 <i>GB</i> ₂			HNW
312391* 2008 <i>EO</i> ₁₅₁			HNW	322375 2011 <i>LQ</i> ₂₂	5.068	0.56	2 W
312482 2008 <i>TE</i> ₁₂₇	>48.	>0.2	1	322377 2011 <i>LJ</i> ₂₆	7.41	0.34	2–
312641 2010 <i>BF</i> ₅₂	13.868	0.70	2 W	322401 2011 <i>QC</i> ₉₇	21.13	0.48	2 W
312645 2010 <i>EP</i> ₆₅	14.97	0.17	2– A	322418 2011 <i>SX</i> ₁₀₂	4.687	0.54	2 W
312662 2010 <i>LZ</i> ₁₁	14.826	0.40	2 W	322494 2011 <i>UN</i> ₃₂₂	7.277	0.61	2 W
312779 2010 <i>VY</i> ₃₃	8.419	0.80	2 W	322652 1999 <i>JO</i> ₈	2.386	0.11	N
312810 2011 <i>BZ</i> ₁₂₅	5.270	0.69	2 W	322656 1999 <i>LV</i> ₃₅	8.956	0.29	2 W
312942 1995 <i>EK</i> ₁	8.444	0.45	3	322658 1999 <i>RF</i> ₃₁	5.383	0.53	2 W
313492* 2002 <i>VT</i> ₂			HNW	322660 1999 <i>RT</i> ₁₆₁	4.377	0.41	2 W
313554 2003 <i>BY</i> ₆₁	9.425	0.60	2 W	322672 1999 <i>TE</i> ₂₂₁	42.95	0.96	2 W
313732* 2003 <i>UV</i> ₁₈₅	6.19	0.81	2 W	322719 2000 <i>QT</i> ₁₇₀	31.339	0.84	2 W
313847 2004 <i>EF</i> ₃₂	2.98	0.64	2 W	322725 2000 <i>SM</i> ₄₇	9.304	0.77	2 W
313937 2004 <i>RP</i> ₉₉	2.999	0.43	2 W	322777 2001 <i>KL</i> ₄₃	46.893	0.81	2 W
313965 2004 <i>RQ</i> ₃₄₃	8.933	0.61	2 W	322944* 2002 <i>GJ</i> ₁₁₄	4.62	0.70	3–
314561 2005 <i>YK</i> ₁₆₈	4.839	0.68	2 W	323180 2003 <i>HZ</i> ₃₂	18.472	0.38	2 W
314616* 2006 <i>DF</i> ₁₀₄	7.81	0.32	2 HW	323194 2003 <i>QA</i> ₄₅	6.337	0.71	2 W
314947 2006 <i>WV</i> ₁₁₁	19.108	0.49	2 W	323195 2003 <i>QS</i> ₄₈	4.454	0.65	2 W
315000* 2007 <i>AY</i> ₁₉			HNW	323218 2003 <i>SL</i> ₅₄	6.275	0.44	2 W
315019 2007 <i>BW</i> ₄₈	2.590	0.39	2 W	323324 2003 <i>UL</i> ₁₃₅	4.389	0.78	2 W
315098* 2007 <i>EX</i>	2.447	0.20	3–	323416 2004 <i>EE</i> ₁	56.127	0.77	2 W
315284* 2007 <i>TW</i> ₁₂₄	8.54	0.50	1+ DAW	323454 2004 <i>HL</i> ₅₅	5.060	0.76	2 W
315307* 2007 <i>TE</i> ₂₁₆	6.44	0.82	2 W	323485 2004 <i>PO</i> ₈	6.501	0.44	2 W
315369 2007 <i>VG</i> ₆	9.30	1.11	3 W	323655 2005 <i>CF</i> ₃₃	43.042	0.40	2 W
315373* 2007 <i>VS</i> ₃₈			HNW	323823 2005 <i>SR</i> ₃₃	5.308	0.79	2 W
315530* 2008 <i>AP</i> ₁₂₉	9.04	0.12	2 A	323894 2005 <i>SS</i> ₂₈₇	14.791	0.59	NA
316241 2010 <i>OX</i> ₂₈	29.612	0.59	2 W	323943 2005 <i>UV</i> ₁₆	17.226	0.77	2 W
316249 2010 <i>OL</i> ₅₅	135.030	0.47	2 W	323989* 2005 <i>UY</i> ₂₀₃	6.40	0.75	1+ DAW
316287* 2010 <i>RG</i> ₂	4.92	0.52	2– W	324396 2006 <i>SR</i> ₅₃	5.43	0.49	2 W
316495 2010 <i>VV</i> ₉₉	5.186	0.42	2 W	324405 2006 <i>ST</i> ₁₆₀	11.466	0.52	2 W
316720 1998 <i>BE</i> ₇	6.6769	0.95	3	324454 2006 <i>TV</i> ₁₂₄	7.995	0.56	2 W
316762 1999 <i>TK</i> ₃₃	5.846	0.15	1 W	324526 2006 <i>VX</i> ₁₁₃	10.458	0.45	2 W
316774 1999 <i>TG</i> ₇₉	14.001	0.25	2 W	324798* 2007 <i>HO</i> ₂₀	6.08	1.31	2– W
316927 2000 <i>YF</i> ₄₅	6.294	0.49	2 W	325269* 2008 <i>GL</i> ₁₁₈	4.73	0.87	1 W
316933 2001 <i>AV</i> ₅₀	3.564	0.65	2 W	325698* 2009 <i>UP</i> ₃₉	4.05	0.58	2 W
316983 2001 <i>HD</i> ₅₇	7.526	0.68	2 W	325771 2010 <i>MC</i> ₆₇	3.317	0.19	2 W
317150 2001 <i>UC</i> ₂₂₈		1.7	I	325836 2010 <i>SP</i> ₃₈	2.522	0.38	2 W
317285* 2002 <i>FE</i> ₉	5.71	1.40	2 W	325862 2010 <i>TB</i> ₁₁₇	44.900	0.09	1 W
317327 2002 <i>JV</i> ₂₆	6.014	0.43	2 W	325929 2010 <i>VB</i> ₁₇	360.405	0.68	2 W
317478 2002 <i>RF</i> ₂₁₆	6.783	0.54	2 W	326093 2011 <i>BZ</i> ₈₈	5.531	0.66	2 W
317565 2002 <i>VR</i> ₇₃	8.538	0.22	2 W	326242* 2012 <i>DS</i> ₂₁	1.04	0.35	1+ W
317640 2003 <i>ER</i> ₂₃	7.16	0.80	2 W	326317* 1999 <i>VN</i> ₂₃	2.98	0.18–0.22	2 W
317721* 2003 <i>QR</i> ₄₃	6.04	0.93	2 W	326352* 2000 <i>SD</i> ₂₆₃	3.50	0.42	2 W
317791* 2003 <i>SF</i> ₁₇₂	5.75	0.79	2+ W	326366 2000 <i>WV</i> ₂₁	306.695	0.72	2 W
317797* 2003 <i>SN</i> ₁₈₃	12.16	0.56	1+ DAW	326547 2002 <i>PV</i> ₄₇	7.333	0.49	2 W
317910* 2003 <i>UN</i> ₂₆₉	5.11	0.23	1+ W	326609* 2002 <i>RR</i> ₅₃	5.25	0.96	2 W
317932* 2003 <i>WC</i> ₂	5.96	0.83	1+ DAW	326641* 2002 <i>SZ</i> ₃₁	4.80	0.78	1+ W
318261 2004 <i>SF</i> ₁₀	5.065	0.56	2 W	326683* 2002 <i>WP</i>	6.262	1.42	3
318271 2004 <i>SO</i> ₅₃	7.891	0.45	2 W	326694 2003 <i>AN</i> ₂₀	4.080	0.37	2 W
318745* 2005 <i>SJ</i> ₁₁			HNW	326698* 2003 <i>AD</i> ₇₈	4.95	1.10	2 W
318941* 2005 <i>UR</i> ₁₄₃	8.18	0.60	1+ DAW	326700 2003 <i>BM</i> ₂	4.254	0.20	2 W
318986* 2005 <i>UR</i> ₃₆₅	3.92	0.73	2 W	326732 2003 <i>HB</i> ₆	9.436	0.19	2+ W
319034 2005 <i>VZ</i> ₄₉	2.88	0.39	2 W	326846 2003 <i>UD</i> ₁₃₀	6.260	0.31	2 W
319177* 2005 <i>YW</i> ₁₁₇			HNW	326869* 2003 <i>UF</i> ₂₅₀			HNW
319262 2006 <i>BX</i> ₅	8.155	0.43	2 W	326872* 2003 <i>UA</i> ₂₉₅	4.92	0.75	2+ W
319523 2006 <i>RB</i> ₃₉	2.514	0.12	1 W	326912* 2003 <i>WM</i> ₁₇₂	6.31	0.47	2– DAW
319534 2006 <i>RJ</i> ₆₀	2.6421	0.13	1 W	327192* 2005 <i>MH</i> ₂₂	7.80	0.79	2 W
319633* 2006 <i>SJ</i> ₃₆₆	4.541	0.29–0.50	2 W	327241 2005 <i>SQ</i> ₂₁	5.890	0.24	2 W
319666 2006 <i>TD</i> ₄₃	3.740	0.59	2 W	327416 2005 <i>VF</i> ₁₁₂	5.285	0.86	2 W
320045 2007 <i>DQ</i> ₁₁₆	4.640	0.39	2 W	327488* 2005 <i>YM</i> ₁₄₇	3.64	0.89	2+ W
320125 2007 <i>EQ</i> ₁₈₅	9.0	0.48	2 A	327655 2006 <i>QF</i> ₅₉	2.532	0.16	2 W
320144 2007 <i>EY</i> ₂₁₉	6.884	0.50	2 W	327749 2006 <i>TA</i> ₆₉	463.658	0.83	2 W
320292 2007 <i>RO</i> ₂₂₁	1.57	0.97	1+ W	327937* 2007 <i>DE</i> ₁₁₃	4.36	0.90	2– W
320399* 2007 <i>UY</i> ₁₀₅	16.108	0.47–0.57	2 W	328395* 2008 <i>RC</i> ₁₂₉	4.23	0.92	2– W
320404* 2007 <i>UF</i> ₁₁₉	7.68	0.92	1 DAW	328736 2009 <i>UC</i> ₁₂	6.292	0.90	2 W

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Planet	Period	Variation	Note	Planet	Period	Variation	Note
329310 2000 <i>SF</i> ₆₈	5.157	0.74	2 W	334998* 2004 <i>GB</i> ₈	7.296	0.44	2 HNW
329312 2000 <i>SA</i> ₁₃₀	4.934	0.19	2 W	335029 2004 <i>QU</i>			W
329329 2000 <i>WW</i> ₃₇	2.828	0.15	2 W	335037* 2004 <i>RP</i> ₁₁			HNW
329338 2001 <i>JW</i> ₂	>12.	0.15	2	335102* 2004 <i>TF</i> ₁₄₇			HNW
329352 2001 <i>SN</i> ₁₆₀	5.532	0.52	2 W	335110 2004 <i>TE</i> ₁₆₈	3.84	0.45	2 W
329365 2001 <i>UA</i> ₁₀₇	5.082	0.53	2 W	335154 2004 <i>XG</i> ₅₉	3.771	0.16	2 W
329437 2002 <i>OA</i> ₂₂	2.6214	0.19–0.41	3	335177* 2005 <i>AY</i> ₅₅	2.44	0.31	2 HNW
329586* 2002 <i>XY</i> ₁₁₈			HNW	335179 2005 <i>AD</i> ₇₇			W
329614 2003 <i>KU</i> ₂	3.278	0.30	3–	335196* 2005 <i>EA</i> ₆₅			HNW
329627 2003 <i>RP</i> ₂₄	12.653	0.71	2 W	335293* 2005 <i>PL</i> ₈			HNW
329687 2003 <i>UM</i> ₁₉₇	6.272	0.54	2 W	335409* 2005 <i>TP</i> ₁₁₅	1.29	0.51–0.70	3 HNW
329712* 2003 <i>WV</i> ₅	9.32	0.65	2 W	335433* 2005 <i>UW</i> ₁₆₃			W
329770 2004 <i>JA</i>	52.1	>0.4	NT0	335445* 2005 <i>UV</i> ₃₅₄	6.304		2 W
329831 2004 <i>RT</i> ₃₂₄	7.424	0.69	2 W	335491 2005 <i>XR</i> ₂₄	7.747	0.53	2 W
329841 2004 <i>TW</i> ₄₆	2.843	0.39	2 W	335493 2005 <i>XS</i> ₅₅	8.990	0.36	2 W
329855 2004 <i>TD</i> ₃₀₈	5.124	0.67	2 W	335560* 2006 <i>BT</i> ₂₂₈	35.255	0.59	2 HNW
329892* 2005 <i>GB</i> ₃₀	3.87	0.17	1+	335582* 2006 <i>DJ</i> ₂₉			HNW
330274 2006 <i>SK</i> ₁₄₇	6.055	0.30	2–	335689 2006 <i>WQ</i> ₁₀₂			W
330305* 2006 <i>TA</i> ₇₆			HNW	335742* 2007 <i>EW</i> ₁₁	5.78	0.58–0.96	2 W
330372* 2006 <i>WU</i> ₉₄			HNW	335744* 2007 <i>EQ</i> ₁₆	6.15	0.75	2–
330388* 2006 <i>XS</i> ₅₁	7.20	0.75	1+	335748* 2007 <i>EH</i> ₄₄	6.155	0.42–0.64	2 W
330555 2008 <i>BA</i> ₁₉	3.6		N	335917 2007 <i>SV</i> ₁₄	5.151	0.54	2 W
330597* 2008 <i>DO</i> ₆	2.31	0.48	1+	335920 2007 <i>SW</i> ₁₈	13.163	0.53	2 W
330606* 2008 <i>DF</i> ₄₈	5.08	1.24	3–	335991* 2007 <i>TR</i> ₃₀₇			HNW
330684* 2008 <i>HJ</i> ₄₆	3.47	0.51	2 W	336044* 2007 <i>WB</i> ₃			HNW
330698 2008 <i>KT</i> ₁₂	5.073	0.59	2 W	336110* 2008 <i>JY</i> ₂₀	3.196	0.67	2 HNW
330711 2008 <i>OM</i> ₁₄	6.072	0.34	2 W	336184 2008 <i>RN</i> ₁₀₇			W
330820 2008 <i>WH</i> ₆₂	91.363	0.48	2 W	336289 2008 <i>SB</i> ₂₈₂	15.502	0.71	2 W
330824* 2008 <i>WZ</i> ₁₃₆	5.036	0.39–0.40	2 W	336332* 2008 <i>TB</i> ₈₇	4.603	0.53–0.57	2 W
330825 2008 <i>XE</i> ₃	4.409	0.15–0.22	3–	336360* 2008 <i>TZ</i> ₁₈₄			HNW
331090 2009 <i>WO</i> ₁₇₁	38.994	0.54	2 W	336498* 2008 <i>WU</i> ₄₈			HNW
331118 2010 <i>UE</i> ₅₃	18.678	0.49	2 W	336526* 2008 <i>YJ</i> ₉₃			HNW
331132* 2010 <i>VJ</i> ₈₂	6.32	1.06	2+	336609* 2009 <i>UV</i> ₅₆			HNW
331179 2011 <i>AC</i> ₃₅	4.884	0.28	2 W	336751* 2010 <i>GE</i> ₁₁₆	7.80	1.05	2 W
331471* 1984 <i>QY</i> ₁	45.5	0.65	2 T	336753 2010 <i>HK</i> ₈₅	11.383	0.69	2 W
331570* 2001 <i>QS</i> ₆₇	11.166	0.56–0.63	2 W	336824 2011 <i>EU</i> ₄₁	45.313	0.75	2 W
331711 2002 <i>RF</i> ₁₈₆	7.324	0.90	2 W	337069* 1998 <i>FX</i> ₁₃₄	7.487	0.46	3
331806* 2003 <i>SA</i> ₁₅			HNW	337226 2000 <i>EL</i> ₉₈	1.87	0.53	1 W
332019 2005 <i>NP</i> ₁₂₂	268.582	0.41	2 W	337391 2001 <i>QR</i> ₁₅₇	10.399	0.09	1 W
332029* 2005 <i>PQ</i> ₁₀			HNW	337400 2001 <i>QQ</i> ₁₈₆	7.371	0.48	2 W
332149* 2005 <i>YT</i> ₄₁			HNW	337680 2001 <i>TR</i> ₂₀₉	4.97	0.34	2 W
332190 2006 <i>BR</i> ₂₇₇	321.608	0.91	2 W	337773 2001 <i>UX</i> ₁₆₃	5.293	0.95	2 W
332219 2006 <i>GJ</i> ₄₄	9.746	0.60	2 W	337824 2001 <i>VG</i> ₂₈	2.548	0.41	2 W
332477* 2008 <i>ED</i> ₈₃	13.52	1.12	2–	337866 2001 <i>WL</i> ₁₅	8.955	0.09–0.13	2+
332485* 2008 <i>EP</i> ₁₃₆			HNW	337990 2002 <i>CR</i> ₂₅₃	5.55	0.38	2 W
332696 2009 <i>RM</i> ₁₉	3.97	0.32	2 W	338103 2002 <i>PV</i> ₁₉₇	7.74	0.77	2 W
332747 2009 <i>TM</i> ₂₃	8.113	0.69	2 W	338155 2002 <i>QU</i> ₁₄₆	3.00	0.53	2 W
332841 2010 <i>EA</i> ₆	198.653	0.74	2 W	338176 2002 <i>RC</i> ₁₁₈	9.98	0.40	2 W
332847* 2010 <i>FA</i> ₃₀	8.394	0.44–0.71	2 W	338237 2002 <i>TS</i> ₉₈	5.33	0.72	2 W
332886* 2011 <i>AH</i> ₅₄			HNW	338288 2002 <i>UG</i> ₁₃	9.90	0.50	2 W
332984* 2011 <i>FG</i> ₆₇	1.59	0.40	1 W	338304 2002 <i>US</i> ₇₅	30.948	0.69	2 W
333277 1996 <i>XM</i> ₂₃	49.808	0.72	2 W	338524* 2003 <i>QB</i> ₉₇			HNW
333284 1999 <i>PJ</i> ₁	6.2013	1.1	N	338603 2003 <i>ST</i> ₁₈₀	2.92	0.31	2 W
333319* 2001 <i>PD</i> ₁₇			HNW	338906 2004 <i>DL</i> ₂₆	5.325	0.30	2 W
333322 2001 <i>QG</i> ₂₆	7.74	1.06	2 W	339330 2004 <i>XH</i> ₁₇₄	10.79	0.93	2 W
333356 2001 <i>UK</i> ₁₈₈	3.13	0.47	2 W	339332 2004 <i>XO</i> ₁₈₀	8.757	0.84	2 W
333358 2001 <i>WN</i> ₁	3.21	0.10	1+	339406* 2005 <i>CA</i> ₃₅			HNW
333406 2002 <i>TW</i> ₃₇₅	2.84	0.56	2 W	339449 2005 <i>ER</i> ₁₈₉	5.61	0.45	2 W
333549* 2005 <i>UQ</i> ₉₇			HNW	339450 2005 <i>ED</i> ₁₉₃	3.71	0.54	2 W
333578 2006 <i>KM</i> ₁₀₃	5.737	0.58–0.71	2+	339570 2005 <i>LR</i> ₈	7.334	0.76	2 W
333733 2009 <i>VV</i> ₇₁	2.133	0.09	1 W	339597 2005 <i>NX</i> ₃₆	64.447	0.99	2 W
333855* 1995 <i>SD</i> ₃₇	5.772	0.70–0.77	2 W	339606* 2005 <i>OT</i> ₃	3.627	0.34–0.39	2 W
333887* 1998 <i>RX</i> ₅₀	3.914	0.20–0.33	2 W	339624* 2005 <i>PA</i> ₂₀			HNW
333915* 1999 <i>TR</i> ₁₁₅	5.082	0.67–0.79	2 W	339658 2005 <i>QC</i> ₇₄	8.356	0.08	1 W
333967* 2000 <i>FO</i> ₄₈			HNW	339662 2005 <i>QD</i> ₈₄	7.68	0.31	2 W
334033* 2000 <i>YT</i> ₁₁₃	16.529	0.64–0.71	2 W	339663 2005 <i>QR</i> ₈₅	7.33	0.48	2 W
334150* 2001 <i>RA</i> ₁₂₉	5.294	0.49–0.51	2 W	339756 2005 <i>SQ</i> ₇₃	17.8	0.30	N
334202* 2001 <i>SS</i> ₂₉₁	7.040	0.70–0.99	2 W	339771 2005 <i>SL</i> ₁₁₂	4.95	0.71	2 W
334206 2001 <i>SL</i> ₃₀₄	12.97	0.91	2 W	339813 2005 <i>SF</i> ₂₁₉	8.869	0.37	2 W
334229 2001 <i>TJ</i> ₆₀	9.201	0.42	2 W	339899* 2005 <i>TX</i> ₁₈₂	8.234	0.43–0.48	2 W
334293* 2001 <i>UX</i> ₂₀₂	6.345	0.55–0.80	2 W	340005 2005 <i>UJ</i> ₃₁₁	7.38	0.95	2 W
334301 2001 <i>VM</i> ₅₅	5.096	0.57	2 W	340042 2005 <i>UP</i> ₄₉₀			W
334460 2002 <i>PR</i> ₁₉	5.667	0.63	2 W	340193* 2005 <i>YB</i> ₂₆₈			HNW
334468 2002 <i>PA</i> ₁₃₂	5.166	0.63	2 W	340256 2006 <i>BW</i> ₁₃₉	11.71	0.50	2 W
334527 2002 <i>RG</i> ₁₈₉	28.279	0.93	2 W	340311* 2006 <i>DY</i> ₄	5.55	0.86	2 W
334673 2003 <i>AL</i> ₁₈	2.4840	0.18	N	340341 2006 <i>DP</i> ₅₅	7.68	0.79	2 W
334680* 2003 <i>BN</i> ₅₀	5.24	0.65	1 DAW	340355 2006 <i>DM</i> ₉₁	6.76	0.75	2 W
334773 2003 <i>SR</i> ₉₆		0.2		340459 2006 <i>HA</i> ₉	5.376	0.85	2 W
334904 2003 <i>WL</i> ₁₆₇	1.59	0.58	1+	340513* 2006 <i>JC</i> ₁₅	7.548	0.64–0.72	2 W
334934* 2004 <i>BB</i> ₃₉			HNW	340553* 2006 <i>KP</i> ₄₈			HNW

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Planet	Period	Variation	Note	Planet	Period	Variation	Note
340574* 2006 <i>MG</i> ₁₂			HNW	349243 2007 <i>TB</i> ₁₀₅	6.36	0.78	2 W
340618 2006 <i>QR</i> ₉₈	6.621	0.51	2 W	349509 2008 <i>QR</i> ₅	6.67	0.60	2 W
340658 2006 <i>RA</i> ₁₇	8.50	0.64	2 W	349755 2009 <i>AE</i> ₂	8.47	0.61	2- W
340673 2006 <i>RV</i> ₄₂	5.128	0.40	2 W	349880 2009 <i>DD</i> ₈₄	5.89	0.79	2 W
340674 2006 <i>RG</i> ₄₃	6.3	0.20	1 W	350048 2010 <i>OG</i> ₃₀	28.038	0.42	2 W
340939 2007 <i>EP</i> ₃₉	5.7700	0.51	2	350230 2012 <i>TW</i> ₂₆	57.321	0.40	2 W
341163* 2007 <i>PM</i> ₄₉	5.42	0.49-0.74	2 W	350988 2003 <i>GW</i>	9.58	0.18	2- W
341187 2007 <i>RZ</i> ₄₇	3.28	1.42	2 W	351898 2006 <i>SE</i> ₂₄₂	18.5	0.2	1 W
341245* 2007 <i>RG</i> ₁₉₁			HNW	352143 2007 <i>LR</i> ₃₂	2.4162	0.14	3- W
341274 2007 <i>RD</i> ₂₈₁	2.768	0.43	2 W	352712 2008 <i>SM</i> ₁₉₁	5.699	0.61	2 W
341334 2007 <i>TW</i> ₃₅	9.858	0.70	2 W	353215 2009 <i>TE</i> ₁₂	>24.		
341343 2007 <i>TD</i> ₄₅	7.22	0.78	2 W	353253 2010 <i>EQ</i> ₄₂	8.89	0.28	2 W
341520 Mors-Somnus	9.28	0.24	NB	353363* 2010 <i>XP</i> ₅₀	5.403	0.36	2+ HW
341556 2007 <i>UX</i> ₂₃	2.67	0.46	2 W	353778* 2012 <i>HA</i> ₇₇	5.39	0.64	2+ W
341799 2007 <i>XF</i> ₂₃	3.60	0.47	2 W	353785 2012 <i>KW</i> ₃₀	49.722	0.62	2 W
341843 2008 <i>EV</i> ₅	3.725	0.04-0.15	3 p	353866 2012 <i>WN</i> ₂	26.5	0.5	1 W
341880 2008 <i>GT</i> ₈₇		1.13	I	353938 1998 <i>QR</i> ₁₅	2.454	0.11	N
342031 2008 <i>RA</i> ₁₀₈		1.52	W	353952 1999 <i>RL</i> ₈₄	13.037	0.53	2 W
342051* 2008 <i>RL</i> ₁₃₅			HNW	354227 2002 <i>JR</i> ₁₁₉	9.964	0.25	2 W
342170 2008 <i>SE</i> ₁₇₇	8.983	0.54	2 W	355256 2007 <i>KN</i> ₄	7.141	0.40	2 W
342266 2008 <i>SS</i> ₃₀₉	2.07	0.79	2 W	356261 2009 <i>VB</i> ₃		1.48	I
342516 2008 <i>UA</i> ₁₉₉	2.831	0.35	2 W	356471 2011 <i>QU</i> ₅₉	12.575	0.46	2 W
342659 2008 <i>VP</i> ₄	6.91	0.76	2 W	356766 2011 <i>UT</i> ₂₆₉	37.848	0.56	2 W
342849 2008 <i>YF</i> ₁₀	4.781	0.46	2 W	357024 1999 <i>YR</i> ₁₄	4.2477	1.19-1.38	3
342895* 2008 <i>YT</i> ₁₀₀			HNW	357056 2001 <i>MN</i> ₁₆	5.729	0.93	2 W
343002 2009 <i>BL</i> ₇₆	3.97	0.80	3- W	357439* 2004 <i>BL</i> ₈₆	2.6205	0.07-0.17	3 AB
343098 2009 <i>DV</i> ₄₂	9.658	0.06	2	357574* 2004 <i>TJ</i> ₁₆₇			HNW
343106 2009 <i>DT</i> ₆₉	5.19	0.49	2 W	357598 2004 <i>XW</i> ₁₀₄	60.360	0.38	2 W
343113 2009 <i>DB</i> ₁₂₈	5.85	0.65	2 W	357622 2005 <i>EY</i> ₉₅	3.925	0.24	3- W
343133 2009 <i>FY</i> ₁	11.16	0.79	2 W	357911 2005 <i>VR</i> ₁₃₁	5.2737	0.36	NA
343387 2010 <i>CA</i> ₁₄₉	5.038	0.54-0.55	2 W	358109 2006 <i>KZ</i> ₁₂₃	56.124	0.10	1 W
343764 2011 <i>FO</i> ₁₂₆	7.68	0.42	2 W	358332 2006 <i>VT</i> ₆₅	6.195	0.60	2 W
343850* 2011 <i>HP</i> ₄₃			HNW	358449 2007 <i>EM</i> ₃₆	9.643	0.59	2 W
343945* 2011 <i>KG</i> ₂₅			HNW	358605 2007 <i>VE</i> ₁₂	8.574	0.80	2 W
343993 2011 <i>PW</i> ₈		0.95	I	359248* 2009 <i>FQ</i> ₁₂			HNW
344044* 2012 <i>PB</i> ₂₄	4.284	0.62-0.74	2 W	359494 2010 <i>OP</i> ₉₉	3.723	0.33	2 W
344049* 6865 <i>P-L</i>	9.185	0.25-0.28	2 W	359713 2011 <i>TV</i> ₉	6.511	0.51	2 W
344146 2000 <i>NP</i> ₁₁	7.748	0.46	2 W	359995 2012 <i>VA</i> ₁₀₂	5.850	0.55	2- W
344357 2001 <i>WP</i> ₉₀	3.032	0.06	1 W	360202* 1997 <i>WK</i> ₂₇	5.84	1.14	1 DAW
344450* 2002 <i>JJ</i> ₁₂₀	6.049	0.47-0.76	2 W	360254 2000 <i>JU</i> ₃	92.230	0.58	2 W
344461 2002 <i>NK</i> ₅₆	8.35	0.64	2 W	360288 2001 <i>BM</i> ₃	4.225	0.31	2 W
344589 2003 <i>BR</i> ₈₁	8.245	0.61	2 W	360433 2002 <i>JR</i> ₉	8.452	0.25	N
344597* 2003 <i>DW</i> ₃	10.636	0.36-0.42	2 W	360737* 2004 <i>TF</i> ₃₆₈	6.71	0.71	2 W
344683 2003 <i>SP</i> ₂₆₃	6.00	0.80	2 W	360888 2005 <i>SY</i> ₁₀₂	6.337	0.67	2 W
344927 2004 <i>TU</i> ₆₂	2.82	0.71	2 W	360962* 2005 <i>UF</i> ₁₂₉			HNW
345120 2005 <i>QR</i> ₇₃	7.33	0.58	2 W	361071 2006 <i>AO</i> ₄	4.093	0.13-0.32	3
345304* 2005 <i>WS</i> ₁₉₇			HNW	361394 2006 <i>VX</i> ₁₂₆	3.668	0.58	2 W
345558 2006 <i>RP</i> ₄₂	40.	0.6	1 W	361838* 2008 <i>DU</i> ₁₄			HNW
345646 2006 <i>TN</i>	3.05	0.11	2+ W	362001* 2008 <i>UO</i> ₄₃			HNW
345705 2006 <i>VB</i> ₁₄	3.204	0.40-0.55	3	362184 2009 <i>FZ</i> ₆₄	10.562	0.33	2 W
345781 2007 <i>EZ</i> ₁₈₄	2.00	0.30	1 W	362196 2009 <i>HE</i> ₉	5.956	0.80	2 W
345853 2007 <i>PU</i> ₁₁	56.8	0.98	3 T0	362248* 2009 <i>KV</i> ₂₃			HNW
346352 2008 <i>RM</i> ₁₁₈	1.22	0.63	1+ W	362493 2010 <i>TM</i> ₂₅	6.742	0.73	2 W
346641 2008 <i>XD</i> ₁₂	3.60	0.77	2 W	362973* 2013 <i>CB</i> ₁₇			HNW
346653 2008 <i>XC</i> ₅₅	3.60	0.52	2 W	363018* 1996 <i>TA</i> ₆	7.16	0.30	1+ DAW
346759 2009 <i>BV</i> ₄₆	4.85	0.80	2 W	363027 1998 <i>ST</i> ₂₇	3.	0.1	2 RB
346802 2009 <i>BZ</i> ₁₇₇	5.85	0.63	2 W	363044 1999 <i>TY</i> ₂₄₃	31.775	0.10	1 W
346816 2009 <i>CV</i> ₅₁	5.11	0.33	2 W	363050 1999 <i>VA</i> ₇₅	6.854	0.39	2 W
346895* 2009 <i>SN</i> ₃₈			HNW	363067 2000 <i>CO</i> ₁₀₁	5.120	0.10	2 B
346993 2010 <i>CT</i> ₁₄₈	5.113	0.54	2 W	363075 2000 <i>OG</i> ₈	4.0734	0.14	N
347054 2010 <i>EZ</i> ₁₃₇	6.644	0.92	2 W	363084 2000 <i>RD</i> ₅₃	14.96	0.09	NT0
347295 2011 <i>OM</i> ₃	10.32	0.41	2 W	363163 2001 <i>SE</i> ₂₈₆	9.323	0.14	N
347336* 2012 <i>NN</i> ₁	3.82	0.74	2 W	363305 2002 <i>NV</i> ₁₆	0.9067	0.20	2
347426 2012 <i>TZ</i> ₂	6.269	0.70	2 W	363567 2004 <i>AH</i> ₈	19.977	0.56	2 W
347461 2012 <i>TW</i> ₃₀₂	3.09	0.45	2 W	363599 2004 <i>FG</i> ₁₁	<4.		2 RB
347524 1999 <i>TK</i> ₂₁₀	33.024	0.44	2 W	363620 2004 <i>PG</i> ₅	3.501	0.40	2 W
347629 2001 <i>SY</i> ₁₇₄	57.824	0.37	2 W	363736* 2004 <i>XH</i> ₆₆			HNW
347808 2002 <i>LJ</i> ₂	9.006	0.58	2 W	363770 2005 <i>EJ</i> ₁₄₁	>12.	>0.3	2- W
347813* 2002 <i>NP</i> ₁	5.915	0.86	3	364024 2005 <i>VB</i> ₇₇	6.110	0.64	2 W
347926 2003 <i>CH</i> ₁₇	9.011	0.65	2 W	364171* 2006 <i>JZ</i> ₈₁			INB
348084 2003 <i>WO</i> ₉₄	8.65	0.95	2 W	364323 2006 <i>UE</i> ₉₀	2.498	0.19	2 W
348400* 2005 <i>JF</i> ₂₁	2.4149	0.05-0.14	3 M	364523* 2007 <i>EQ</i> ₁₈₀	6.76	0.65	2- W
348431 2005 <i>QL</i> ₇	4.53	0.53	2 W	365456 2010 <i>NX</i> ₆₆	4.47	0.47	2 W
348519 2005 <i>UK</i> ₅₃	171.479	0.67	2 W	365491* 2010 <i>PD</i> ₇₉	5.71	0.67	3- W
348631 2005 <i>YN</i> ₁₂₁	17.513	0.83	2 W	365505 2010 <i>RB</i> ₆₈	23.039	0.62	2 W
348802 2006 <i>QF</i> ₅₈	4.974	0.31	2 W	365893* 2011 <i>WB</i> ₃	5.25	1.60	2 W
348834 2006 <i>RV</i> ₉₂	6.03	0.10	1 W	366199 2012 <i>JL</i> ₂₆	9.980	0.46	2 W
349000* 2006 <i>UU</i> ₂₄₀			HNW	366205* 2012 <i>RX</i> ₇			HNW
349068 2006 <i>YT</i> ₁₃	2.433	0.11	3	366221 2012 <i>TH</i> ₂₃₂	3.61	0.61	2 W
349115 2007 <i>GR</i> ₃₆	5.16	0.77	2 W	366326 2013 <i>EW</i> ₃₉	109.611	0.58	2 W

MINOR PLANET LIGHTCURVE PARAMETERS

Planet	Period	Variation	Note	Planet	Period	Variation	Note
366343 1994 <i>LC</i> ₁	2.406	0.13	3	372918* 2011 <i>BW</i> ₅	7.11	1.04	2 W
366387 2001 <i>CT</i> ₂₀	7.707	0.41	2 W	372963* 2011 <i>BY</i> ₁₁₁	1.07	0.40	1 W
366593 2002 <i>UF</i> ₂₁	39.309	0.74	2 W	373145 2012 <i>BO</i> ₂₄	5.432	0.65	2 W
366681 2003 <i>UV</i> ₁₄₉	3.499	0.44	2 W	373427 1999 <i>RB</i> ₂₅₂	43.199	0.57	2 W
367248 2007 <i>MK</i> ₁₃	5.286	1.40–2.20	3	373438 1999 <i>TK</i> ₁₇₆	7.029	0.10	1+ W
367696 2010 <i>RT</i> ₁₂₆	6.402	0.38	2 W	373479 2000 <i>SQ</i> ₂₉₁	14.762	0.50	2 W
367943 2000 <i>Duende</i>	9.485	1.02–1.79	3	373516 2001 <i>RS</i> ₁₃₄	13.957	0.67	2 W
367971* 2012 <i>DZ</i> ₉₆	16.14	0.90	1 DAW	373533 2001 <i>TF</i> ₁₁	7.27	0.61	2 W
368099 2013 <i>CP</i>		0.9	1 I	373534 2001 <i>TR</i> ₁₆₉	5.064	0.89	2 W
368153 1995 <i>UX</i> ₁	10.95	0.53	2	373567* 2001 <i>XT</i> ₁₀₅			HNW
368174* 2000 <i>AT</i> ₂₁₅	5.39	0.95	2 W	373580 2002 <i>AU</i> ₄₈	7.778	0.74	2 W
368176* 2000 <i>BQ</i> ₁₂			HNW	373673 2002 <i>QM</i> ₁₁₄	5.691	0.55	2 W
368194 2000 <i>WO</i> ₄	2.691	0.09	1 W	373682 2002 <i>RT</i> ₅	30.366	0.66	2 W
368242 2001 <i>VN</i> ₁₀	4.576	0.46	2 W	373689 2002 <i>RN</i> ₇₆	13.636	0.80	2 W
368277 2002 <i>JX</i> ₉	4.550	0.65	2 W	373814 2002 <i>VU</i> ₁₄₁	10.083	0.47	2 W
368280 2002 <i>LK</i> ₅₅	32.877	0.76	2 W	373832 2002 <i>XO</i> ₈₇	34.591	0.72	2 W
368375 2002 <i>RG</i> ₇₁	3.216	0.31	2 W	373855 2003 <i>QY</i> ₆	13.381	0.56	2 W
368401 2002 <i>TP</i> ₅₀	91.943	0.09	1 W	373916 2003 <i>UC</i> ₁₃₇	6.070	0.60	2 W
368411 2002 <i>TA</i> ₁₆₆	77.598	0.56	2 W	373933* 2003 <i>UP</i> ₂₈₇			HNW
368416 2002 <i>TK</i> ₂₃₇	58.948	0.33	2 W	373964* 2003 <i>WV</i> ₁₉₀			HNW
368429 2002 <i>UP</i> ₁₆	4.666	0.66	2 W	373967 2003 <i>XJ</i> ₅	4.292	0.38	2 W
368467 2003 <i>SB</i> ₁₄₆	7.466	0.62	2 W	374038 2004 <i>HW</i>	2.52	0.2	1
368471 2003 <i>SU</i> ₁₈₅	4.588	0.47	2 W	374089 2004 <i>RV</i> ₂₁₁	63.695	0.39	2 W
368477 2003 <i>SX</i> ₂₅₃	9.722	0.76	2 W	374102 2004 <i>RT</i> ₂₈₉	58.192	0.78	2 W
368536 2003 <i>WH</i> ₁₁₅	5.534	0.74	2 W	374107 2004 <i>SE</i>	11.188	0.25	2 W
368577 2004 <i>PZ</i> ₄₂	2.899	0.47	2 W	374111 2004 <i>SU</i> ₂₈	6.853	0.52	2 W
368585 2004 <i>QV</i> ₂₀	6.864	0.34	2 W	374115 2004 <i>TO</i> ₂	28.001	0.65	2 W
368605 2004 <i>RA</i> ₂₁₂	29.812	0.42	2 W	374158 2004 <i>UL</i>	38.	1.2	2 T
368632 2004 <i>XM</i> ₁₈	3.601	0.18	2 W	374159 2004 <i>UJ</i> ₅	8.010	0.43	2 W
368664 2005 <i>JA</i> ₂₂	31.7	0.92	2+ T?	374179 2004 <i>XQ</i> ₇₆	8.922	0.63	2 W
368758 2005 <i>VK</i> ₆	48.314	1.13	2 W	374408 2005 <i>WW</i> ₂₉	5.664	0.47	2 W
369236 2008 <i>UR</i> ₃₆₂	9.647	0.88	2 W	374500 2005 <i>YH</i> ₁₅₄	53.102	0.97	2 W
369243 2008 <i>WJ</i> ₆₉	15.015	0.42	2 W	374539* 2006 <i>BS</i> ₅₆	4.62	1.12	3– W
369451 2010 <i>CV</i> ₂₄₉	5.9	0.51	2– W	374702 2006 <i>RJ</i> ₆₂	194.885	0.95	2 W
369498 2010 <i>VQ</i> ₁₄	6.179	0.43	2 W	374706 2006 <i>RK</i> ₉₂	51.	0.4	1+ W
369598* 2011 <i>CF</i> ₃₁	3.19	0.41	2– W	374718 2006 <i>SS</i> ₂₅	19.736	0.65	2 W
369686 2012 <i>BL</i> ₂₈	17.252	0.62	2 W	374766 2006 <i>SB</i> ₂₈₃	5.288	0.51	2 W
369941 2013 <i>GW</i> ₇₂	6.023	0.39	2 W	374770* 2006 <i>SL</i> ₃₃₆			HNW
369984 1998 <i>QR</i> ₅₂	234.	0.88	NT–	374779 2006 <i>TC</i> ₁₀	10.555	0.80	2 W
370019* 2000 <i>EW</i> ₃₃	4.57	0.32	1+ W	374826 2006 <i>UV</i> ₁₉₃	6.347	0.52	2 W
370180 2002 <i>CR</i> ₃₄	18.982	0.28	2 W	374851 2006 <i>VV</i> ₂	2.425	0.2	3 p B
370227 2002 <i>OC</i> ₂₇	3.926	0.57	2 W	374906 2006 <i>WG</i> ₂₀₄	9.484	0.43	2 W
370233 2002 <i>PY</i> ₉₀	7.691	0.74	2 W	375070 2007 <i>RF</i> ₃₁	8.891	0.65	2 W
370273 2002 <i>QU</i> ₅₉	6.274	0.54	2 W	375090 2007 <i>RJ</i> ₂₄₂	5.924	0.60	2 W
370307* 2002 <i>RH</i> ₅₂	4.218	0.09–0.78	3	375101 2007 <i>TB</i> ₄₄	15.467	0.47	2 W
370315 2002 <i>RP</i> ₁₁₂	13.982	0.21	2 W	375330* 2008 <i>RZ</i> ₁₃₁	4.42	0.93	2 W
370375 2002 <i>TU</i> ₇₄	67.135	0.57	2 W	375336 2008 <i>SV</i>	4.478	0.49	2 W
370376 2002 <i>TN</i> ₈₄	7.461	0.56	2 W	375415* 2008 <i>SZ</i> ₂₈₆	8.42	0.61	1 W
370382 2002 <i>TW</i> ₁₂₂	5.648	0.81	2 W	375582 2008 <i>UK</i> ₃₇₀	4.668	0.36	2 W
370396 2002 <i>TU</i> ₁₇₀	4.072	0.51	2 W	375695 2009 <i>OY</i> ₄	5.486	0.64	2 W
370486 2003 <i>QD</i> ₇₃	17.072	0.57	2 W	375714 2009 <i>QE</i> ₉	4.039	0.49	2 W
370498 2003 <i>SD</i> ₃₆	4.703	0.35	2 W	375757* 2009 <i>SV</i> ₈₁			HNW
370499 2003 <i>SC</i> ₅₅	4.287	0.93	2 W	375904 2009 <i>VJ</i> ₁₀₅	183.190	0.73	2 W
370500 2003 <i>SA</i> ₆₁	40.629	0.57	2 W	375914 2009 <i>WV</i> ₂₃	12.716	0.39	2 W
370712 2004 <i>QK</i> ₅	46.265	0.58	2 W	375941* 2009 <i>WE</i> ₁₀₂	3.64	0.12	2
370718 2004 <i>RY</i> ₁₁	21.899	1.01	2 W	375977 2009 <i>WB</i> ₂₃₄	5.645	0.44	2 W
370746 2004 <i>RZ</i> ₁₆₂	4.272	0.27	2 W	375995 2009 <i>XP</i> ₂₄	88.750	0.39	2 W
371090 2005 <i>UB</i> ₄₄₄	15.018	0.77	2 W	376021 2010 <i>AQ</i> ₇₆	8.891	0.52	2 W
371115 2005 <i>VS</i> ₉₈	12.246	0.72	2 W	376050* 2010 <i>DW</i> ₄₂	6.96	0.81	1+ W
371135 2005 <i>WJ</i> ₁₁₈	3.880	0.35	2 W	376052* 2010 <i>EH</i> ₄₄	>80.	>0.95	2–
371166* 2005 <i>YT</i> ₃₁	7.50	0.49	2 W	376059 2010 <i>FY</i> ₁₄	116.910	0.60	2 W
371414 2006 <i>SZ</i> ₄₈	5.254	0.13	1+ W	376312* 2011 <i>GV</i> ₂₈	10.91	0.57	2 W
371459 2006 <i>SH</i> ₃₆₁	29.820	0.36	2 W	376752 1999 <i>VE</i> ₁₄	6.728	0.25	2 W
371486 2006 <i>TT</i> ₆₆	31.063	0.76	2 W	376821* 2001 <i>CL</i> ₁₈			HNW
371549 2006 <i>VF</i> ₂	14.656	0.26	2 W	376840* 2001 <i>QG</i> ₁₆₁			HNW
371599* 2006 <i>WG</i> ₁₂₅	2.60	0.26	2 W	376842* 2001 <i>QM</i> ₂₅₉	5.162	0.32–0.48	2 W
371791 2007 <i>OC</i> ₆	9.347	0.35	2 W	376998* 2002 <i>PZ</i> ₁₈₂			HNW
371792 2007 <i>PP</i> ₁	6.700	0.51	2 W	377005* 2002 <i>QO</i> ₈₇			HNW
372018 2008 <i>LU</i> ₁₇	3.162	0.27	2 W	377019 2002 <i>RY</i> ₉₁	5.09	0.88	2 W
372020* 2008 <i>OC</i> ₁₂	4.87	0.45	1 W	377097 2002 <i>WQ</i> ₄	36.	0.6	1+ W
372243 2008 <i>US</i> ₁₃₃	10.676	0.50	2 W	377119 2002 <i>YO</i> ₂₄	4.052	0.22	2 W
372310 2008 <i>WR</i> ₉₄	39.652	0.59	2 W	377147* 2003 <i>RW</i> ₁₈			HNW
372339* 2009 <i>DS</i> ₈₂	5.78	0.85	2– W	377234* 2004 <i>BF</i> ₃₃			HNW
372371 2009 <i>MK</i>	16.147	0.54	2 W	377354* 2004 <i>RL</i> ₆₃			HNW
372435 2009 <i>SE</i> ₄₉	6.698	0.70	2 W	377401 2004 <i>SN</i> ₂₂	14.812	0.42	2 W
372491 2009 <i>SR</i> ₂₄₀	12.349	0.52	2 W	377458* 2004 <i>VS</i> ₉₁			HNW
372544 2009 <i>TJ</i> ₂₃	7.935	0.75	2 W	377470 2004 <i>XX</i> ₁₆₁	19.224	0.41	2 W
372756 2010 <i>CR</i> ₁₅	7.409	0.76	2 W	377616* 2005 <i>SO</i> ₇₀			HNW
372858 2010 <i>VB</i> ₁₇₁	123.541	0.39	2 W	377634 2005 <i>TL</i> ₅₂	7.477	0.79	2 W
372913 2011 <i>AN</i> ₇₇	2.457	0.32	2 W	377636* 2005 <i>TW</i> ₆₂			HNW

MINOR PLANET LIGHTCURVE PARAMETERS

Planet	Period	Variation	Note	Planet	Period	Variation	Note		
377914* 2006 <i>EP</i> ₇	116. 7.507	0.5 0.55	1	HNW	383033* 2005 <i>OX</i> ₃₁	3.27 5.65 10.55	0.66 0.54 0.62	2	HNW
377993 2006 <i>RC</i> ₃₉			2	W	383039 2005 <i>QJ</i> ₁₈			2	W
378009 2006 <i>SG</i> ₄₆				W	383097 2005 <i>SS</i> ₁₃₆			2	W
378232* 2007 <i>BO</i> ₇₇				HNW	383135 2005 <i>UJ</i> ₄₄			2	W
378239* 2007 <i>CJ</i> ₅	112. 6.181	0.77 0.44		HNW	383222* 2006 <i>AA</i> ₅₀	3.54 18.737	0.53 0.64–0.67	2	HNW
378242* 2007 <i>CR</i> ₁₂				HNW	383305* 2006 <i>GZ</i> ₄₃			2	W
378244* 2007 <i>CN</i> ₃₆				HNW	383364 2006 <i>SN</i> ₅₉			2	W
378610* 2008 <i>FT</i> ₆			2	W	383455* 2006 <i>XU</i> ₁₇			2	W
378711 2008 <i>PP</i> ₁₆			2	W	383521 2007 <i>CV</i> ₅₅			2	W
379025* 2008 <i>VE</i> ₃₉				HNW	383542 2007 <i>DM</i> ₈₃			2	W
379191 2009 <i>SG</i> ₁₅	3.451	0.76	2	W	383555* 2007 <i>EG</i> ₂₂	5.16 2.43 427.390	0.66 0.56 0.60	2	HNW
379232* 2009 <i>SJ</i> ₂₆₉		HNW	383582 2007 <i>FN</i> ₃₆	2	W				
379376* 2009 <i>WR</i> ₂₆₁	4.12	0.89	2	W	383609 2007 <i>JJ</i> ₂₀			2	W
379403* 2010 <i>AA</i> ₁₀	4.29	0.52	2	HNW	383702 2007 <i>TK</i> ₄₃₆			2	W
379488* 2010 <i>EK</i> ₁₀₇				W	383715* 2007 <i>UL</i> ₄₃		HNW		
379555* 2011 <i>AU</i> ₄₄	5.93 9.60 6.76 4.92	0.58 1.05 0.73 0.46		HNW	383722* 2007 <i>UN</i> ₇₉	7.154	0.65–0.78 0.58 0.52 0.57–0.73	2	HNW
379613* 2011 <i>CE</i> ₈₃			2	W	383814* 2008 <i>BE</i> ₁₉			2	W
379645* 2011 <i>EY</i> ₁₇			1	DAW	383977 2008 <i>TK</i> ₁₀₅			2	W
379918* 2012 <i>JE</i> ₆₆			2–	W	384012 2008 <i>UA</i> ₆₇			2	W
380046* 2013 <i>RH</i> ₅₈	4.92	0.46	2+	W	384028* 2008 <i>UE</i> ₁₁₉	2	W		
380087 2013 <i>SJ</i> ₅₁	3.782 9.003	0.40 0.44	2	W	384040* 2008 <i>UF</i> ₁₈₂	5.52 6.15 6.15 7.392 5.506	0.67–1.21 0.54 0.57 0.42–0.43	2	HNW
380101 2013 <i>TP</i> ₁₁			2	W	384127* 2008 <i>YG</i> ₄₉			2	HNW
380196* 2000 <i>XH</i> ₂₀	3.40 9.333	0.39–0.41 0.18		HNW	384129* 2008 <i>YZ</i> ₆₅			2	HNW
380298* 2002 <i>CS</i> ₂₀₈				HNW	384358* 2009 <i>UL</i> ₇₂			2	W
380353* 2002 <i>RJ</i> ₂₄₇				HNW	384400 2009 <i>WG</i> ₄₃			2	W
380406* 2002 <i>YG</i> ₁₉			2	W	384440 2010 <i>AD</i> ₂₁	11.85	0.35	2	W
380413 2003 <i>AS</i> ₇₆	49.0 7.611	0.17 0.72	2	W	384460* 2010 <i>BC</i> ₅			2	W
380720* 2005 <i>QL</i> ₅₈				HNW	384477 2010 <i>CN</i> ₃₈			2	W
380745* 2005 <i>SW</i> ₁₁₄				HNW	384495* 2010 <i>CQ</i> ₈₀			2	HNW
380816* 2005 <i>YZ</i> ₉₉	13.409	0.70		HNW	384508 2010 <i>CU</i> ₁₂₃	5.837 5.05	0.27 0.87	2	W
380841* 2006 <i>AG</i> ₆₈			2	T?	384539* 2010 <i>EA</i> ₂₁			2	W
380929 2006 <i>HU</i> ₃₀			2	W	384543 2010 <i>EM</i> ₃₉			2	W
380936 2006 <i>HY</i> ₈₇			2	W	384547 2010 <i>EH</i> ₇₉	2	W		
380954 2006 <i>KR</i> ₁₂₄	16.841	0.29	2	W	384617* 2011 <i>CG</i> ₁₇	2.82 7.93	0.47 0.58	2	HNW
380981 2006 <i>SU</i> ₁₃₁	4.92	0.18	1	A	384655 2011 <i>FG</i> ₁₁			2	W
381022 2006 <i>UV</i> ₂₁₂	2.87	0.95	2	W	384744 2011 <i>OY</i> ₂₃			8.390 7.33 3.02 6.259 2.5193	0.63–0.82 0.26 0.69 0.59 0.12–0.17
381065* 2006 <i>XQ</i> ₆₀				HNW	384794* 2012 <i>QD</i> ₂₁	2	W		
381082* 2007 <i>BV</i> ₃₆				HNW	384808 2012 <i>QX</i> ₃₆	2	W		
381104* 2007 <i>CU</i> ₅₆				HNW	384813 2012 <i>QD</i> ₅₁	2	W		
381117* 2007 <i>DA</i> ₄₀	3.5197	0.39	1+	W	384873 2012 <i>SP</i> ₄₂	6.96 6.32 2.36990 6.96	0.19–0.25 0.66 0.59 0.43	2	W
381151* 2007 <i>GZ</i> ₁₁				HNW	384885* 2012 <i>SC</i> ₆₆			2	W
381196* 2007 <i>RM</i> ₂₆				HNW	384997 2012 <i>TG</i> ₂₁₈			2	W
381225* 2007 <i>RO</i> ₂₉₁				HNW	385104 2012 <i>VL</i> ₈₀			2	W
381246* 2007 <i>TU</i> ₇₆	18.307	0.88	2	W	385161 2013 <i>UV</i> ₅	5.073 5.55 4.57 5.52 5.27	0.64 0.73 0.44 0.81 0.49	2	W
381316* 2007 <i>VU</i> ₁₇₇				HNW	385186 1994 <i>AW</i> ₁			2	W
381341* 2008 <i>CU</i> ₁₃				HNW	385250* 2001 <i>DH</i> ₄₇			2	W
381418* 2008 <i>KQ</i> ₂₉			3.5197	0.39		HNW	385343* 2002 <i>LV</i>	6.195 4.196	0.51–0.94 0.41
381457* 2008 <i>RM</i> ₅₃		HNW			385380 2002 <i>RN</i> ₁₁₂	2	W		
381491* 2008 <i>SA</i> ₈₈		HNW			385446* Manwë		WNB		
381499* 2008 <i>SJ</i> ₁₁₈		HNW			385529 2004 <i>PT</i> ₇	2	W		
381523* 2008 <i>SB</i> ₂₁₉	2.78	0.20	2	W	385545 2004 <i>RS</i> ₂₃₇	5.52 8.4172	0.96 0.19–0.25	2	W
381589 2008 <i>UC</i> ₃₃₃				W	385580 2004 <i>XO</i> ₁₄			2	W
381639* 2008 <i>YS</i> ₉₆				HNW	385613 2005 <i>GP</i> ₉₁			2	W
381674* 2009 <i>BE</i> ₇₉			3.5197	0.39		HNW	385687 2005 <i>SF</i> ₂₈₆	2.36990 6.96	0.59 0.43
381681* 2009 <i>BF</i> ₁₁₂		HNW			385705 2005 <i>UJ</i> ₂₈	2	W		
381712* 2009 <i>QE</i> ₄		HNW			385761 2005 <i>YK</i> ₇₄	2	W		
381770* 2009 <i>SU</i> ₃₂₄	3.5197	0.39		HNW	385770 2005 <i>YQ</i> ₁₉₁	3.79 8.50 7.8 5.58 5.39	0.49 0.88 1.0 0.54 0.48	2	W
381855* 2009 <i>WD</i> ₂₆₄				HNW	385843 2006 <i>JY</i> ₂₅			2	W
381906 2010 <i>CL</i> ₁₉				HNW	385893 2006 <i>SJ</i> ₂₃₂			2	W
381919* 2010 <i>CB</i> ₇₀				HNW	386056 2007 <i>FV</i> ₃₅			2	W
381955* 2010 <i>EO</i> ₄₅	2.78	0.20	1	W	386367 2008 <i>TS</i> ₁₂₇	5.073 5.55 4.57 5.52 5.27	0.64 0.73 0.44 0.81 0.49	2	W
382027* 2011 <i>BT</i> ₁₆₁				HNW	386547 2009 <i>DP</i> ₁₄			2	W
382038* 2011 <i>CX</i> ₆₀				HNW	386578 2009 <i>EY</i> ₁			2	W
382052* 2011 <i>DL</i> ₃₀				HNW	386690 2009 <i>WQ</i> ₉			2	W
382062* 2011 <i>EY</i> ₃₃	3.21 7.20	0.38 0.60		HNW	386701 2009 <i>WH</i> ₇₂	5.27 6.44 11.30 11.16 9.06	0.49 0.86 0.06 0.67 1.09	2	W
382073* 2011 <i>FV</i> ₁₅			1+	W	386721 2009 <i>XN</i> ₁₂			2	W
382169* 2012 <i>JU</i> ₁₃			1+	DAW	386723* 2009 <i>YE</i> ₇			2	W
382202* 2012 <i>PB</i> ₃				HNW	386813 2010 <i>FG</i> ₅₇			2	W
382218* 2012 <i>QY</i> ₁₉	6.327 35.598	0.31–0.44 0.54	2	W	386836 2010 <i>JO</i> ₃₉	6.00 3.28 4.059 6.816 2.29	0.49 0.43 0.47–0.65 0.71 0.43	2	W
382243* 2012 <i>SV</i> ₃₉			2	W	386895* 2011 <i>GZ</i> ₇₅			2	HNW
382261* 2012 <i>TQ</i> ₉₄				W	386924 2011 <i>KV</i> ₂₈			2	W
382391 2013 <i>TS</i> ₁₃₆			2	W	387114 2012 <i>TB</i> ₁₆₁			2	W
382426* 1999 <i>AO</i> ₁₄	7.20	0.75		HNW	387135* 2012 <i>TC</i> ₁₉₆	5.018 2.467 3.52 1.57	0.47–0.65 0.71 0.43	2	W
382447 2000 <i>DZ</i> ₃₆				W	387399 2013 <i>PR</i> ₁₀			2	W
382490 2001 <i>GU</i> ₈				W	387484 2013 <i>YH</i> ₆₂			2	W
382513* 2001 <i>SR</i> ₈₉				HNW	387488* 1994 <i>AY</i> ₁₃				HNW
382583 2002 <i>CQ</i> ₁₆₆	2.21	0.36	2	W	387548* 2001 <i>BK</i> ₆	5.018 2.467 3.52 1.57	0.31–0.43 0.10–0.14 0.70 0.84	2	W
382774 2003 <i>SD</i> ₇₇	4.73	0.71	2	W	387733* 2003 <i>GS</i>			3	W
382895* 2004 <i>QS</i> ₉	8.89	0.62		HNW	387950 2005 <i>EL</i> ₂₃₇			2	W
382963 2004 <i>XS</i> ₄₄			2	W	388169 2006 <i>AF</i> ₆₂			1+	W

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Planet	Period	Variation	Note	Planet	Period	Variation	Note
388176* 2006 <i>BH</i> ₁₂₇	4.548	0.47–0.56	2 W	409204 2003 <i>WX</i> ₂₅	5.118	0.22	3–
388188 2006 <i>DP</i> ₁₄	5.77	0.90–1.05	3	409221* 2003 <i>XN</i> ₂₇	11.43	0.76	1 W
388236 2006 <i>KZ</i> ₁₈	6.76	0.53	2 W	409410* 2005 <i>GX</i> ₁₂₂			HNW
388355 2006 <i>TX</i> ₁₁₇	3.04	0.69	2 W	409557* 2005 <i>UV</i> ₁₀₀	5.11	0.96	2 W
388468 2007 <i>DB</i> ₈₃	5.41403	0.69–1.00	3	410088 2007 <i>EJ</i>	4.781	0.16	2+
388486 2007 <i>EP</i> ₆₈	7.06	0.63	2 W	410195 2007 <i>RT</i> ₁₄₇	48.05	1.08	2
388507 2007 <i>EW</i> ₁₅₉	6.76	0.80	2 W	410516* 2008 <i>EG</i> ₁₄₃	4.56	0.70	1 DAW
388838 2008 <i>EZ</i> ₅	8.40	0.29	2–	410650 2008 <i>SQ</i> ₁	very long		N
388945* 2008 <i>TZ</i> ₃	44.2	0.56	2 T?	410777* 2009 <i>FD</i>	4.0	0.24–0.35	2+ RB
389010 2008 <i>UG</i> ₁₈₀	6.903	0.55	2 W	410778 2009 <i>FG</i> ₁₉	8.00	0.80	2 A
389022 2008 <i>UC</i> ₂₃₉	6.853	0.65	2 W	411067* 2009 <i>VO</i> ₆₁	4.92	0.85	2 W
389134 2009 <i>AW</i> ₃₂	2.67	0.48	2 W	411131* 2009 <i>WA</i> ₂₁₆	4.78	1.09	2 W
389260 2009 <i>FL</i> ₆₁	3.64	0.56	2 W	411201 2010 <i>LJ</i> ₁₄	113.	0.85	2 T0
389439 2010 <i>CQ</i> ₉₄	10.55	0.48	2 W	411236* 2010 <i>PP</i> ₇₅	8.34	0.84	1 DAW
389694 2011 <i>QD</i> ₄₈	5.24	0.08	2–	411280 2010 <i>SL</i> ₁₃	7.79	0.20	2 A
389937* 2012 <i>TG</i> ₁₃₆	19.215	0.61–0.63	2 W	412405 2014 <i>BQ</i> ₆₂	8.35	0.71	2 W
390208 2012 <i>XV</i> ₈	3.89	0.09	2 W	413002* 1999 <i>VG</i> ₂₂	4.887	0.32	3
390446 2013 <i>YR</i> ₇₃	3.87	0.38	2 W	413038 2001 <i>MF</i> ₁	6.569	0.64–1.26	3
390462 2013 <i>YE</i> ₁₁₁	3.87	0.60	2 W	413260 2003 <i>TL</i> ₄	27.2	>1.0	NT0
390500 2014 <i>AV</i> ₄₉	3.23	0.48	2 W	413516* 2005 <i>SS</i> ₁₆	1.89	0.40	1+ W
390677 2002 <i>TE</i> ₂₄₁	5.099	0.20	1+ W	413531* 2005 <i>SW</i> ₈₈	6.81	0.32	2– W
390779 2003 <i>WY</i> ₆	55.101	0.92	2 W	413610* 2005 <i>UH</i> ₂₂₈	4.10	0.67	1 W
391033 2005 <i>TR</i> ₁₅	850.	1.0	2 T0	414085* 2007 <i>TG</i> ₁₅₆	5.61	0.80	1+ W
391123 2005 <i>WS</i> ₁₉	3.302	0.25	2 W	414287 2008 <i>OB</i> ₉	42.5	0.34	2
391474 2007 <i>HN</i> ₂₉	8.941	0.73	2 W	414408* 2009 <i>BJ</i> ₁₀₇	3.68	0.70	2 W
391503 2007 <i>PU</i> ₄₅	6.08	0.75	2 W	414845* 2010 <i>VH</i> ₃₁	4.92	0.93	2+ W
391535* 2007 <i>RY</i> ₃₀₀			HNW	415949 2001 <i>XY</i> ₁₀	43.5	0.35	2+ T0
392211 2009 <i>TG</i> ₁₀	13.87	1.34	3–	415992* 2002 <i>AT</i> ₄₉	2.6366	0.12	2
392416* 2010 <i>MF</i> ₅₁	4.349	0.56–0.57	2 W	416071 2002 <i>NV</i>	17.7	0.41	2
392524 2011 <i>QT</i> ₄₃	5.966	0.46	2 W	416151 2002 <i>RQ</i> ₂₅	12.191	0.72	2+ A
392733 2012 <i>RN</i> ₁₃	3.644	0.24	2 W	416186 2002 <i>TD</i> ₆₀	2.8513	1.15–2.0	3 T+
393260 2013 <i>UU</i> ₁₄	13.597	0.43	2 W	416224 2002 <i>XM</i> ₉₀	7.666	0.88–1.02	3
393439 2001 <i>TT</i> ₁₁₇	8.467	0.48	2 W	416231 2003 <i>AJ</i> ₇₃	9.5708	0.96	N
395052 2009 <i>EO</i> ₁	6.462	0.53	2 W	416400* 2003 <i>UZ</i> ₁₁₇	10.61	0.09	2
395289 2011 <i>BJ</i> ₂	7.03	0.48	2	416525* 2003 <i>YD</i> ₁₇₀	5.11	0.31	2 W
395693 2012 <i>AM</i> ₁₁	10.481	0.64	2 W	416630* 2004 <i>RF</i> ₃₀₅	5.78	0.88	2 W
396212* 2013 <i>YH</i> ₄₂	4.216	0.43–0.49	2 W	416801 2005 <i>GC</i> ₁₂₀			2+
396236* 2014 <i>BS</i> ₂₉	4.988	0.27–0.46	2 W	416804 2005 <i>GP</i> ₁₂₈	3.266	0.70	2+ W
396243* 2014 <i>BL</i> ₃₈	5.123	0.75–0.89	2 W	417269* 2006 <i>AQ</i> ₃₁	7.27	0.65	2+ W
396542 1994 <i>UR</i> ₅	9.150	0.75	2 W	418797 2008 <i>VF</i>	7.35	0.11	2+ W
396655 2002 <i>JL</i> ₁₂₂	16.078	0.19	2 W	418894* 2008 <i>YT</i> ₁₇₁			HNW
397006 2005 <i>TM</i> ₆	5.398	0.58	2 W	419022 2009 <i>QF</i> ₃₁	4.840	0.75	3
397009 2005 <i>TQ</i> ₂₇	2.497	0.49	N	420042* 2011 <i>DW</i> ₁₂	2.73	0.42	1 W
397062 2005 <i>UX</i> ₁₄₉	3.559	0.54	2 W	420187 2011 <i>GA</i> ₅₅	2.578	0.15	3
397353 2006 <i>UW</i> ₉₀	3.227	0.44	2 W	420231* 2011 <i>HA</i> ₅₂			HNW
398004 2009 <i>BU</i> ₁₈₃	2.81	0.63	2 W	420539* 2012 <i>GG</i> ₇	7.50	0.60	2– W
398188 Agni	21.99	1.12	2 T	420738 2012 <i>TS</i>	3.57	0.20	2+ W
398221 2010 <i>OW</i> ₇₆	19.542	0.47	2 W	421367* 2013 <i>TO</i> ₁₂₉			HNW
399064* 2013 <i>YQ</i> ₁₃₉	5.93	0.55–0.89	2 W	421421* 2013 <i>WM</i> ₈₆	8.65	0.44	2 W
399065 2014 <i>BQ</i> ₂	17.077	0.62	2 W	422433* 2014 <i>SF</i> ₂₉₂	10.43	0.51	2 W
399067* 2014 <i>BG</i> ₃₇	4.95	0.38–0.51	2 W	422502* 2014 <i>TK</i> ₃	7.74	0.83	1+ DAW
399307 1991 <i>RJ</i> ₂	3.4807	0.09	3 B	422511* 2014 <i>TT</i> ₅	5.42	0.50	1+ W
399333 1999 <i>VT</i> ₈₃	3.029	0.30	2 W	422514* 2014 <i>TP</i> ₆	7.16	0.58	2– W
399374 2001 <i>QA</i> ₁₉₀	6.145	0.65	2 W	422522* 2014 <i>TP</i> ₉	5.42	0.88	2 W
399417 2001 <i>VE</i> ₂₅	18.730	0.66	2 W	422544* 2014 <i>TL</i> ₂₈	4.07	0.64	2 W
399497 2002 <i>TV</i> ₁₉₀	15.9	0.3	1 W	422561* 2014 <i>TH</i> ₃₉	6.27	0.64	2 W
399525 2002 <i>YU</i> ₂₇	19.645	0.74	2 W	422638 1994 <i>CB</i>	8.676	0.90	3 T–
399663 2004 <i>RU</i> ₂₀₈	11.570	0.74	2 W	422868* 2002 <i>PC</i> ₁₆₀			HNW
399756 2005 <i>JH</i> ₂₁	17.834	0.77	2 W	423122* 2004 <i>BY</i> ₁₃₈	3.28	0.60	2 W
399774 2005 <i>NB</i> ₇	3.4882	0.13–0.15	3 B	423321 2005 <i>ED</i> ₃₁₈	17.157	0.22–0.48	2 NT0
399792 2005 <i>QE</i> ₅₀	5.691	0.77	2 W	423498* 2005 <i>TG</i> ₁₂₂	5.61	0.84	2 W
399979 Lewseaman	15.946	0.81	2 W	423702* 2006 <i>AD</i> ₆₄			HNW
400172 2006 <i>WZ</i> ₁₈	2.604	0.51	2 W	423709 2006 <i>BQ</i> ₆	4.416	1.6	3–
400852 2010 <i>MK</i> ₃₈	17.235	0.67	2 W	423742* 2006 <i>BX</i> ₂₃₉			HNW
400878 2010 <i>PC</i> ₁₀	9.053	0.10	1 W	423830 2006 <i>MN</i> ₁₀	8.73	0.70	2 W
401891* 2001 <i>RW</i> ₁₂₁			HNW	423904 2006 <i>SV</i> ₂₄₂	19.88	0.5	1+ W
401998 2003 <i>MO</i>	50.	0.40	1 A	423906 2006 <i>SO</i> ₂₇₅	3.0477	0.12	1+ W
402314* 2005 <i>TD</i> ₁₂₃			HNW	424037* 2007 <i>AH</i> ₁₃	6.38	0.70	1 DAW
402581 2006 <i>RX</i> ₉₁	0.9086	0.2	1 W	424072* 2007 <i>DF</i> ₁₆			HNW
404597* 2013 <i>SW</i> ₂₇	3.34	0.89	1+ W	424507* 2008 <i>DZ</i> ₈₀	1.44	0.25	1 W
405058 2001 <i>TX</i> ₁₆	4.8005	0.47–0.54	3	424930 2008 <i>YA</i> ₂₀	2.51	0.67	2 W
405697* 2005 <i>UH</i> ₃₉₈	2.72	0.18	1+ W	425270* 2009 <i>WX</i> ₁₂₇			HNW
406126* 2006 <i>VC</i> ₇₀	8.65	0.96	2 W	425326* 2010 <i>AS</i> ₅₅	4.16	0.83	3– W
406213 2007 <i>AB</i> ₂	8.545	0.60	2 W	425450 2010 <i>EV</i> ₄₅	3.520	0.27	2+ W
406399* 2007 <i>TG</i> ₇₃	6.00	0.58	2– W	425709* 2011 <i>BR</i> ₁₉	6.11	0.29	1+ W
408210* 2013 <i>EW</i> ₅₉			HNW	425713* 2011 <i>BK</i> ₂₄	6.010	0.24	2+ W
408388* 2013 <i>GC</i> ₁₀₄			HNW	425817* 2011 <i>DC</i> ₂₅	6.49	1.33	2 W
408751 1987 <i>SF</i> ₃	21.0	0.20	2 A	425929* 2011 <i>GS</i> ₄₆	6.04	0.81	2 W
408980 2002 <i>RB</i> ₁₂₆	16.21	0.14	2 A	426109* 2012 <i>FL</i> ₅₀	5.71	0.73	1+ W
409067* 2003 <i>SO</i> ₂₂₂	5.93	0.73	2– W	426308* 2012 <i>TE</i> ₁₆₆			HNW

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Planet	Period	Variation	Note	Planet	Period	Variation	Note
426430* 2013 QA ₃₀	4.21	0.85	2- W	436485* 2011 EQ ₂₄			HNW
426556* 2013 RR ₈₉	5.08	0.79	1+ W	436508* 2011 FW ₂₇			HNW
426918* 2013 WF ₉₇			HNW	436550* 2011 GA ₇₉			HNW
426941 2013 YA ₆	3.49	0.48	2 W	436724 2011 UW ₁₅₈	0.61073	0.52-2.05	3 p
426943 2013 YS ₁₆	5.45	0.70	2 W	436775* 2012 LC ₁	5.687	0.34-0.41	3
426968* 2013 YW ₁₀₃			HNW	437317* 2013 PW ₂	3.08	0.76	2 W
427107* 2014 UB ₈₀	3.54	0.70	2- W	437480* 2013 YZ ₅₀			HNW
427435 2001 BC ₇₃	8.4	0.65	3- HNW	437505 2013 YJ ₇₈	6.04	0.56	2 W
427463* 2001 TO ₂₁₉			HNW	437548 2013 YL ₁₂₈	6.44	0.84	2 W
427592* 2003 SC ₁₁₆			HNW	437790* 2015 CP ₄₀	1.27	0.40	2- W
427684 2004 DH ₂	8.962	0.30	3- HNW	437844 1999 MN	5.495	0.41-0.77	3
427781* 2005 CJ ₃₂			HNW	438045* 2004 NV ₇			HNW
427952* 2005 WY ₁₉₈			HNW	438105 2005 GO ₂₂	4.103	0.76	2
428030* 2006 CW ₁			HNW	438429 2006 WN ₁	3.686	0.22	2+
428086 2006 NM			2- W	438473 2007 EZ ₇₄	8.07	0.82	2 W
428209 2006 VC	7.8	0.85	2 W	439454 2013 YO ₈	7.06	0.77	2 W
428234* 2006 WV ₁₈₂	2.51	0.63	1 W	439492 2013 YY ₁₄₇	5.39	0.53	2 W
428323* 2007 HH ₂₅			HNW	439501 2014 AR ₄₂	7.56	1.15	2 W
428425* 2007 TE ₁₉₇			HNW	439854 1998 XA ₅		0.22	
428617* 2008 FQ ₁₀			HNW	441825 2009 SK ₁	5.829	0.60	2+
428643* 2008 GL ₄	5.61	0.77	3- W	441987* 2010 NY ₆₅	4.979	0.21	3-
428694 Saule	8.430	0.27	2 HNW	442037 2010 PR ₆₆	2.0734	0.90-1.00	3
428714* 2008 RE ₃₄			HNW	442243 2011 MD ₁₁	2.430	0.15	3
428860* 2008 UT ₁₂₁			HNW	442559 2012 AU ₁₀	10.45	0.20	2
428883* 2008 UL ₃₀₆	1.59	0.35	1 W	443103 2013 WT ₆₇	135.	1.1	2 T?
428958* 2008 YM ₉₁			HNW	443837 2000 TJ ₁	14.09	0.49	3-
429240* 2010 AL ₇₆			HNW	443880 2001 UZ ₁₆	13.719	0.97	3-
429272* 2010 CA ₆₇			HNW	444030 2004 NT ₃₃	7.87	0.04	1+ 1
429368 2010 HC ₅₉			W	444497 2006 RT ₄₁	1.2976	0.20	1 W
429544* 2011 CM ₉	8.65	0.80	2 W	444745 2007 JF ₄₃	9.52	0.22	2 A
429584 2011 EU ₂₉	43.5	0.65	2- TO	445068 2008 SE ₂₆₈		1.3	I
429649 2011 GU ₃	0.775		N	445473 2010 VZ ₉₈	9.72	0.18	N
429675* 2011 HO ₁			HNW	446791 1998 SJ ₇₀	19.15	0.90	2 TO
429825* 2012 NW ₁			HNW	446804 1999 VN ₆	24.1	>0.7	NAT0
430248* 2013 WT ₁₄			HNW	446833 2001 RB ₁₂	5.299	0.13	2+
430439 2000 LF ₆	14.92	0.22	2	446882* 2002 DR ₁₃			HNW
430484 2001 ST ₂₄₆	3.47	0.52	2 W	447572 2006 TN ₆₆	1.4959	0.10	1 W
430544 2002 GM ₂	2.630	0.34	3- HNW	448972 2011 YV ₁₅	2.848	0.09	3-
430552 2002 HU ₁₁	15.66	0.4	2 A	450160* 2000 RM ₁₂	14.51	0.31	2+
430620 2003 DT ₉	18.82	0.37	2 W	450649 2006 UY ₆₄	2.824	0.09	2+
430646* 2003 SH ₁₃₉			HNW	450894 2008 BT ₁₈	2.726	0.04	1 B
430844* 2005 LE ₈			HNW	451397 2011 EZ ₇₈	3.1150	0.43-0.45	3 B?
430971* 2005 WL ₇₈			HNW	452302 1995 YR ₁	5.006	0.23	3-
430989* 2005 WX ₁₇₂			HNW	452314 1999 LN ₂₈	>19.	>1.0	N
431300* 2006 UV ₃₄₅	5.11	0.96	2 W	452389* 2002 NW ₁₆	46.7	0.65	2
431510* 2007 TR ₁₇₉			HNW	452561 2005 AB	3.3387	0.04-0.10	3 B
431530* 2007 TY ₂₉₉			HNW	455192 2000 QN ₁₃₀	30.33	0.3	NT0
431796* 2008 QR ₁₈			HNW	455213 2001 OE ₈₄	0.4865	0.3 -0.6	3
431861* 2008 SA ₁₀₉			HNW	455322 2002 NX ₁₈	9.040	0.23	2 A
432022* 2008 VV ₄₉			HNW	455415 2003 GA	5.78	1.25	3
432084* 2008 YU ₁₄₂			HNW	455502 2003 UZ ₄₁₃	4.14	0.10	N
432113* 2009 BY ₁₀			HNW	455522* 2003 XA ₂₈	3.64	0.69	2 W
432122* 2009 BF ₃₂			HNW	456051 2006 AW	53.19	0.95	3- TO
432123* 2009 BV ₃₄			HNW	456715* 2007 RG ₂₉₂			HNW
432160* 2009 BS ₁₅₃			HNW	457938* 2009 UL ₁₅₄	5.58	0.91	1 W
432451* 2010 CY ₇₆			HNW	458198* 2010 RT ₁₁	1.75	0.15	1+
432707* 2011 CE ₁₇			HNW	459872 2014 EK ₂₄	0.0978	0.59-1.10	3
432745* 2011 EU ₁₆			HNW	461524* 2003 SS ₂₆₄	5.16	0.39	2 W
432962* 2012 JQ ₂₆			HNW	461646 2005 EZ ₂₈₀	10.	0.6	2- DW
433491* 2013 WL ₁₉			HNW	461852 2006 GY ₂	2.25	0.1	2- B
433585* 2013 YH ₃₉			HNW	461924* 2006 ST ₆₅			HNW
433587* 2013 YL ₄₁			HNW	462238 2008 CN ₁	6.0555	1.04	3
433645* 2014 AD ₃₇			HNW	462870* 2010 VT ₉₁	4.05	1.02	2- W
433818* 2015 BH ₁₆₄	3.87	0.82	3- W	462959* 2011 DU	10.290	0.49	3
433846* 2015 BM ₂₆₂	11.85	0.65	1 W	463380 2013 BY ₄₅	425.	0.49	2 B?
433871* 2015 BE ₃₀₈	4.95	0.48	2 W	464149* 2014 YF ₅	5.78	1.04	1+ W
433992 2000 HD ₇₄	9.36	0.15	2 A	464673* 2001 TY ₅₉			HNW
434357* 2004 RC ₃₅₀			HNW	464797* 2004 FZ ₁	45.4	0.39	2+ B?
434684* 2006 BQ ₂₉			HNW	464798* 2004 JX ₂₀			2
434702* 2006 BN ₂₈₀			HNW	465048* 2006 RY ₄₁	2.0950	0.1	1 W
434816 2006 RH ₉₂	49.	0.8	1+ W	465065* 2006 SF ₁₀₇	6.267	0.12	1+ W
435087* 2007 CR ₁₆			HNW	465314* 2007 UQ ₅₉			HNW
435116* 2007 DK ₈₆			HNW	465616* 2009 EC	48.6	0.44	2 B?
435131* 2007 EH ₁₄₆			HNW	466508* 2014 GY ₄₈	6.82	0.24	2
435518* 2008 JR ₁₁			HNW	467317* 2000 QW ₇	71.3	>1.0	NT?
435528* 2008 KG ₂₅			HNW	467336* 2002 LT ₃₈	21.80	1.16	2+ T?
435895* 2009 AN ₃₀			HNW	467351* 2003 KO ₂	6.48	1.28	2+
436046* 2009 QB ₁₉			HNW	467963* 2012 JT ₁₇	15.69	0.12	2-
436209* 2009 XO ₁₇			HNW	468448* 2003 LS ₃	5.325	0.23-0.32	3
436442* 2011 CR ₂₅			HNW	468738* 2010 TN ₅₄	12.12	0.07	2 AT0

MINOR PLANET LIGHTCURVE PARAMETERS

Planet	Period	Variation	Note	Planet	Period	Variation	Note
469306* 1999 <i>CD</i> ₁₅₈	6.88	0.49	3–	479600* 2014 <i>DZ</i> ₈	5.03	0.37	2 W
469367* 2001 <i>PG</i> ₅₄			HNW	480004* 2014 <i>KD</i> ₉₁	2.829	0.15–0.18	3
469372* 2001 <i>QF</i> ₂₉₈		<0.12		481457* 2006 <i>XD</i> ₂	3.700	0.87–0.94	3
469438* 2002 <i>GV</i> ₃₁	29.2	0.35	2–	481532* 2007 <i>LE</i>	2.603	0.15	3 B
469466* 2002 <i>RR</i> ₆₀			HNW	482250* 2011 <i>LL</i> ₂	0.1032		3 N
469513* 2003 <i>QR</i> ₇₉	4.11	0.18	2	482470* 2012 <i>PA</i> ₂₆			HNW
469514* 2003 <i>QA</i> ₉₁			HB	482650* 2013 <i>BK</i> ₁₈	4.690	0.34	3–
469581* 2003 <i>YU</i> ₃₅	2.7909	0.09	3–	482796* 2013 <i>QJ</i> ₁₀	14.5	0.10	2– A
469615* 2004 <i>PT</i> ₁₀₇	20.	0.05	N	484402* 2007 <i>XH</i> ₁₆	3.6342	0.35–0.54	2
469634* 2004 <i>SZ</i> ₁₉	16.39	0.34	2	484976* 2009 <i>UN</i> ₃	4.123	0.40–0.70	3
469705* 2005 <i>EF</i> ₂₉₈	9.65	0.31	2 A	485652* 2011 <i>WO</i> ₄₁	4.609	0.14	2 A
469708* 2005 <i>GE</i> ₁₈₇	11.99	0.29	2				
469847* 2005 <i>TJ</i> ₁₀₈			HNW				
469896* 2005 <i>WC</i> ₁	2.582	0.50–2.0	3				
469923* 2005 <i>YZ</i> ₁₉₁			HNW				
469987* 2006 <i>HJ</i> ₁₂₃		0.13	N				
470026* 2006 <i>RD</i> ₁₀₂	11.48	0.30	2– W				
470308* 2007 <i>JH</i> ₄₃		0.08	N				
470344* 2007 <i>RV</i> ₁₆₂	6.11	0.31	2 W				
470510* 2008 <i>CJ</i> ₁₁₆	32.26	1.00	3– T0				
470998* 2009 <i>SX</i> ₁₄₂			HNW				
471002* 2009 <i>SN</i> ₁₇₀			HNW				
471137* 2010 <i>ET</i> ₆₅	7.88	0.13	1+ A				
471143* 2010 <i>EK</i> ₁₃₉	7.07	0.12	2 A				
471165* 2010 <i>HE</i> ₇₉	19.49	0.11	2– A				
471240* 2011 <i>BT</i> ₁₅	0.10914	0.61	3				
471241* 2011 <i>BX</i> ₁₈	4.828	0.27–0.32	2+ A				
471248* 2011 <i>BG</i> ₈₉			HNW				
471545* 2012 <i>KC</i> ₁₃			HNW				
471956* 2013 <i>SC</i> ₂₅	12.96	0.72	3–				
472152* 2014 <i>DA</i> ₁	3.71	0.24	2 W				
472565* 2015 <i>DR</i> ₇₃	2.89	0.72	2 W				
474158* 1999 <i>FA</i>	10.092	1.2	3 T–				
474163* 1999 <i>SO</i> ₅	1.380	0.73	3				
474717* 2005 <i>JA</i> ₅₅			HNW				
474968* 2005 <i>TL</i> ₆₁	7.68	0.29	2 W				
475467* 2006 <i>SL</i> ₈₁	13.17	0.87	2 W				
475592* 2006 <i>UE</i> ₆₀			HNW				
477162* 2009 <i>ES</i>	28.0	0.33	2 B?				
477240* 2009 <i>RW</i> ₄₂	3.65	0.45	2 W				
477327* 2009 <i>TB</i> ₈	15.38	0.20	2–				
477495* 2010 <i>CH</i> ₅₆	7.38	0.55	2 W				
477762* 2010 <i>XZ</i> ₆₇	15.04	0.21	2– T?				
477798* 2011 <i>CM</i> ₆₇			HNW				
478427* 2012 <i>HE</i> ₂₁			HNW				
479325* 2013 <i>TV</i> ₅	0.8367	0.42	3				
479350* 2013 <i>WZ</i> ₉₁			HNW				
479424* 2013 <i>YV</i> ₈₂	8.21	0.61	2 W				
479466* 2013 <i>YB</i> ₁₄₀	5.61	0.81	2 W				
479496* 2014 <i>AN</i> ₄₂	7.80	0.42	2 W				

N o t e s. An asterisk (*) between the asteroid number and name denotes a new or significantly changed entry (data have been changed over three units of the last decimals or have been added) as compared with the lightcurve parameters table published last year. Also asterisk marks entries where the reliability code has been changed or new symbol *A* or *B* or *T* has been added (or eliminated). It goes without saying that some entries which were present in the preceding volumes of the EMP can be deleted as a consequence of revision of available data.

In column “Period” the rotation period expressed in hours is given. The value quoted is the most reliable of the individual values reported, or a subjective “best estimate” based on sometimes discordant results. In some cases “*U*” flag (Uncertain) before given value indicates that the data did not allow finding a definite period and so the author(s) reported a “best guess”. Such cases should be distinguished from ambiguous (see below) where one or several additional periods are reported. In most cases, the period given is synodic and not sidereal. An “*S*” flag before given value indicates that the period is sidereal. An flag *D* denotes that no numerical value for period has been derived.

In column “Variation” the amplitude of variation or range of amplitude observed at all aspects is given (some adjustments have been made to estimate the amplitude which would have been observed at low phase angle at the same aspect).

In column “Note” a reliability code is given. The code provides assessment of the quality of the period solution, not necessarily of the data per se. The uniqueness of the solution, while an important factor, is not the sole consideration in making an assessment. The table below gives the general outline of the criteria used, going from highest to lowest rating.

3 The lightcurve is completely unambiguous in terms of period, i. e., there are no cycle ambiguities or possible solutions with single, triple, or other number of extrema. The coverage of the entire rotation phase is to the degree that any remaining small gaps can be confidently interpolated.

3– A unique period determination, but possibly some moderate gaps in coverage, enough so that interpolation of the entire

curve is not certain, but not enough to allow any other solution.

- 2+ It is unlikely but not impossible that the period is in error due to cycle counts or alternate numbers of extrema per cycle, and no more than moderate gaps in coverage (as in $U = 3-$).
- 2 Result based on less than full coverage, so that the period may be wrong by 30 percent or so. Also, a quality of 2 is used to note results where an ambiguity exists as to the number of extrema per cycle or the number of elapsed cycles between lightcurves. Hence the result may be wrong by an integer ratio.
- 2- Period and total amplitude not firmly established. For example, a single night coverage of about half a cycle including a maximum and minimum, but not enough to actually derive an accurate period.
- 1+ Similar to $U = 2-$, but with less amplitude so that it is not absolutely certain that the variations are true rotational variation and not due to noise, etc.
- 1 May be completely wrong. What is interpreted as rotational variation may be just noise, calibration error, etc.
- 1- Probably wrong. A lightcurve that may be completely wrong (as in $U = 1$) but, in addition, the claimed period is very unlikely, e. g., a large object with a claim of $P < 2h$.
- 0 Result later proven incorrect. This appears only on records of individual observations.

Assignment of the refined ratings using a + or - is a work in progress. Therefore, not all reliability code ratings will match what ones would give under current rules and are subject to change.

N. B. Until the volume of EMP for 2010 a value of "4" for the reliability code, which indicated that a pole solution had been reported, also was used. This is no longer the case since, in the past, there have been cases where a 4 was assigned because there was a pole solution given but the best available period solution was no better than 2. The period solution quality is now independent of any pole solution. A separate "Pole" flag 'p' in the Table, which is following a reliability code, is used to indicate that a pole solution has been reported. The data on pole solution are given in the asteroid spin axes Table which includes details and its own quality code assignment.

Following the reliability code is a space for remarks, with the following meanings:

Blank NONE

- «X» X is an integer, e. g., 3 for a trimodal curve (three min/max per rotation) or 4 quadrimodal curve (four min/max per rotation), etc.
- A Ambiguous period. The "most likely" period is listed, with other possible values given in the Table "Ambiguous periods of lightcurves".
- B Binary asteroid. Additional information may be given in the Tables "Binary asteroids lightcurves" and "Binary asteroid parameters".
- D Period determined from that given in the original publications.
- H Space telescope observations (optical).
- I IR/Thermal observations (e. g., Spitzer).
- M Multiple system.
- N No lightcurve published.
- O Adaptive optics observation.
- P Photographic photometry.
- R Radar observation.
- S Spectroscopic.
- s Result based on sparse data.
- T "Tumbling", that is non-principal axis rotation. See details below in these notes and also in the Table "Non-principal axis rotation ("tumbling") asteroids.
- V Visual photometry.
- W Wide-field survey.
- ? Usually tied with "T" or "B" flags to indicate uncertainty.

The T flag currently has four possible qualifiers:

Blank The asteroid is definitely tumbling.

- ? Possible tumbler. There is some evidence that the asteroid might be a tumbler.
- 0 The tumbling damping time scale (see Pravec 2005, Icarus) is long enough that tumbling might be expected, but observations are not sufficient to substantiate either tumbling or not tumbling.
- The tumbling damping time scale is long enough that tumbling might be expected, but observations indicate that the object is NOT tumbling.
- + The tumbling damping time scale is short enough that tumbling would not seem likely, however observations indicate that it may be tumbling or actually is tumbling.