

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	0.05-0.37	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	0.12-0.47	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	13.868	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	16.210	0.08-0.18	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	0.19-0.30	3 p
33 Polyhymnia	18.608	0.13-0.20	3	113* Amalthea	9.950	0.19-0.22	3 p B?
34 Circe	12.15	0.17-0.25	3 p	114 Kassandra	10.7431	0.23-0.25	3 p
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 Alkeste	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	0.09-0.12	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	20.705	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	0.08-0.32	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	13.671	0.07-0.42	3	139 Juewa	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	0.12-0.22	3 p	142* Polana	9.764	0.11-0.21	3
63 Ausonia	9.298	0.27-0.47	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	15.8052	0.07-0.18	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	5.9570	0.04-0.20	3-p
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	0.05-0.33	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	0.16-0.24	3 p
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	0.08-0.27	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 TO
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	0.22-0.41	3 p	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	0.08-0.43	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	0.04-0.15	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	6.4416	0.22-0.3	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 Pthia	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	0.18-0.43	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 Sapia	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 B?
200 Dynamene	37.394	0.10	3 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	3 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	12.042	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	10.702	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	272.9	0.37-0.50	3- T-
220 Stephaniea	18.198	0.21-0.45	3 p	300* Geraldina	6.8423	0.04-0.32	3 T-A
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	26.468	0.06-0.20	3 p	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 Celestina	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+
239Adrastea	18.4707	0.34-0.51	3 p	319* Leona	430.	0.5	3 T
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	0.19-0.37	3 p
323 Brucia	9.463	0.19-0.36	3	403 Cyane	12.283	0.21-0.45	3 pp
324* Bambergia	29.43	0.06-0.12	3 p B?	404 Arsinoë	8.887	0.27-0.38	3 p
325 Heidelberga	6.737	0.12-0.20	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 Phaeo	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 TO
329* Svea	22.778	0.09-0.22	3-p	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	0.10-0.23	3 p
332 Siri	8.0074	0.10-0.35	3	412 Elisabetha	19.635	0.08-0.20	3
333* Badenia	9.862	0.20-0.33	3	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	0.04-0.47	3 p	418* Alemannia	4.671	0.14-0.33	3
339* Dorothea	5.974	0.06-0.10	3	419* Aurelia	16.784	0.07-0.27	3 p
340 Eduarda	8.0062	0.17-0.32	3 p	420 Bertholda	11.04	0.24-0.29	3
341* California	318.	0.54-0.92	3 T	421 Zähringia	6.42	0.10-0.17	2 A
342 Endymion	6.319	0.15-0.23	3	422* Berolina	25.978	0.06-0.16	3
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	13.530	0.03-0.23	3
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 pp
354 Eleonora	4.277	0.06-0.49	3 p	434 Hungaria	26.521	0.51-0.75	3 pp
355 Gabriella	4.830	0.35-0.42	3 p	435 Ella	4.623	0.30-0.38	3 p
356* Liguria	31.701	0.14-0.22	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 Carlava	6.183	0.30-0.49	3 p	440 Theodora	4.828	0.43-0.72	3 p
361* Bononia	13.835	0.17-0.25	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	0.04-0.13	3 p	449 Hamburga	18.263	0.08-0.17	2+
370 Modestia	22.5299	0.24-1.39	3	450 Brigitta	10.7657	0.22-0.31	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	0.17-0.23	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	16.899	0.04-0.17	3	455 Bruchsalia	11.85	0.10-0.35	2+ p
376 Geometria	7.74	0.15-0.19	3 p	456 Abnoba	18.281	0.2 -0.32	3
377 Campania	11.664	0.14-0.27	3 pp	457 Alleghenia	21.953	0.20	3-
378 Holmia	4.450	0.10-0.21	3 p	458* Hercynia	21.806	0.10-0.48	3 p
379 Huenna	14.141	0.07-0.12	3	459 Signe	5.5362	0.25-0.54	3
380 Fiducia	13.69	0.04-0.32	3 B	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	0.12-0.18	3
386 Siegena	9.763	0.10-0.18	3 p	466* Tisiphone	8.834	0.03-0.18	3
387 Aquitania	24.144	0.07-0.25	3 p	467* Laura	70.63	0.15	3
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	17.5727	0.12-0.15	3
390 Alma	3.74	0.41-0.42	3 p	470 Kilia	290.	0.26	2 TO
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	0.27-0.46	3
393* Lampetia	38.455	0.08-0.14	3	473 Nollis	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 Oclo	7.3151	0.19-0.81	3
396* Aeolia	14.353	0.36	3	476 Hedwig	27.33	0.13	3
397* Vienna	15.48	0.16-0.20	3	477 Italia	19.413	0.15-0.32	3
398* Admete	20.998	0.07-0.13	3	478* Tergeste	16.101	0.14-0.29	3-p
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

MINOR PLANET LIGHTCURVE PARAMETERS

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	0.02-0.30	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	0.06-0.37	3 p	575	Renate	3.676	0.14-0.20	3 p	
496*	Gryphia	1072.	1.25	3 T	576*	Emanuela	20.404	0.06-0.13	2+	A
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	0.10-0.18	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 p	
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 p	
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	0.16-0.47	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	9.8968	0.21-0.26	3	
514	Armida	21.851	0.16-0.27	3	594*	Mireille	4.966	0.18-0.25	3	
515	Athalia	10.636	0.13-0.22	3	595	Polyxena	11.801	0.05-0.69	3 p	
516*	Amherstia	7.4842	0.15-0.60	3 p	596	Scheila	15.8480	0.06-0.10	3 p	
517	Edith	9.2747	0.08-0.18	3	597*	Bandusia	7.6636	0.06-0.36	3	
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	0.43-0.60	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	0.16-0.26	3 p	
528	Rezia	7.337	0.36-0.39	3	608	Adolfine	8.3458	0.16-0.37	3 p	
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	0.11-0.25	3 p	612*	Veronika	8.243	0.09-0.14	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	14.791	0.11-0.17	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	
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	0.3 -0.41	3 p	630	Euphemia	350.	0.20-0.45	2 TO	
551*	Ortrud	17.416	0.14-0.19	3	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	0.14-0.49	3	
554	Peraga	13.7128	0.11-0.28	3	634	Ute	11.7554	0.14-0.17	3	
555*	Norma	19.508	0.06-0.25	3	635	Vundtia	11.790	0.15-0.27	3	
556*	Phyllis	4.293	0.22-0.47	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	Maira	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	

MINOR PLANET LIGHTCURVE PARAMETERS

Planet	Period	Variation	Note	Planet	Period	Variation	Note
641 Agnes	178.0	0.55-0.55	3	722 Frieda		>0.04	
642 Clara	8.2308	0.26-0.31	3	723 Hammonia	5.436	0.08-0.18	3
643 Scheherezade	14.161	0.23-0.37	3	724 Hapag	3.1305	0.10-0.11	3
644 Cosima	7.556	0.20-0.28	3 p	725 Amanda	3.749	0.35-0.42	3 p
645 Agrippina	32.6	0.11-0.18	2	726 Joëlla	13.04	0.12	3
646 Kastalia	3.1259	0.14-0.16	3	727 Nipponia	5.0687	0.11-0.19	3 p
647 Adelgunde	32.202	0.28	3	728* Leonisis	5.5783	0.13-0.39	3
648 Pippa	9.263	0.31-0.36	3	729 Watsonia	25.230	0.17-0.30	3 p
649 Josefa	10.481	0.27-0.33	3	730 Athanasia	5.7348	0.14-0.63	3
650 Amalasantha	16.582	0.45-0.49	3 p	731 Sorga	8.184	0.19-0.72	3 p
651 Antikleia	20.299	0.13-0.41	3	732 Tjilaki	12.34	0.10-0.33	3-p
652 Jubilatix	2.6627	0.21-0.32	3 p	733 Mocia	11.374	0.29	3 p
653 Berenike	12.4886	0.03-0.11	3	734 Benda	7.110	0.28-0.32	3
654 Zelinda	31.735	0.08-0.3	3	735 Marghanna	20.62	0.11-0.13	3-
655 Briseis	160.66	0.09-0.40	3	736 Harvard	6.7	0.32	3
656 Beagle	7.035	0.57-1.20	3	737 Arequipa	7.0259	0.10-0.27	3
657 Gunlöd	15.6652	0.19-0.20	3	738 Alagasta	18.86	0.11-0.20	2+
658 Asteria	21.034	0.22-0.28	3	739 Mandeville	11.931	0.14	2
659 Nestor	15.98	0.22-0.31	3	740 Cantabia	64.453	0.16	3
660 Crescentia	7.9116	0.15-0.33	3 p	741 Botolphia	23.93	0.12-0.40	2-
661 Cloelia	5.536	0.26	3	742 Edisona	18.52	0.24-0.30	3 p
662 Newtonia	21.095	0.42-0.51	3-	743 Eugenisis	10.23	0.10-0.20	3
663 Gerlinde	10.251	0.19-0.35	3	744 Aguntina	17.47	0.42-0.50	3 p
664 Judith	13.764	0.15-0.4	2+	745 Mauritita	9.945	0.12	3
665 Sabine	4.294	0.33-0.45	3 p	746 Marlu	7.787	0.22-0.23	3 p
666 Desdemona	14.607	0.07-0.22	2+	747 Winchester	9.4146	0.13-0.18	3 p
667* Denise	12.687	0.17-0.25	3	748 Simeisa	11.919	0.22-0.36	2
668 Dora	22.914	0.19	3	749 Malzovia	5.9279	0.30	3-p
669 Kypria	14.283	0.17-0.64	3 p	750 Oskar	6.2584	0.07-0.20	3
670 Ottegebe	10.045	0.34-0.35	3 p	751 Faina	23.678	0.36	3
671 Carnegia	8.332	0.24	3-	752* Sulamitis	27.367	0.20-0.45	3
672 Astarte	22.572	0.10-0.16	3	753 Tiflis	9.85	0.35-0.8	3 p
673 Edda	22.340	0.12-0.21	3	754 Malabar	11.740	0.19-0.38	3
674 Rachele	30.982	0.17-0.18	3 p	755 Quintilla	4.552	0.08-0.45	3
675 Ludmilla	7.717	0.16-0.38	3 p	756 Lilliana	7.834	0.18-0.99	3 p
676* Melitta	16.740	0.04-0.20	2+	757 Portlandia	6.5837	0.24-0.45	3 p
677 Aaltje	16.608	0.10-0.37	3	758 Mancunia	12.7253	0.15-0.27	3 p
678 Fredegundis	11.61624	0.25-0.27	3 p	759 Vinifera	14.229	0.36-0.40	3
679 Pax	8.452	0.02-0.32	3 p	760 Massinga	10.72	0.12-0.14	3
680 Genoveva	11.089	0.21-0.25	3	761 Brendelia	57.96	0.25	2+
681 Gorgo	6.4606	0.42	3 p	762 Pulcova	5.839	0.18-0.42	3 p
682 Hagar	4.8503	0.49-0.52	3 p	763* Cupido	151.5	0.24-0.45	3- p
683 Lanzia	8.630	0.12-0.20	3 p	764 Gedania	24.9751	0.09-0.35	2
684 Hildburg	15.89	0.22-0.23	2	765 Mattiaca	3.4640	0.09	3-
685 Hermia	50.40	0.86-0.92	3 p	766 Moguntia	4.8164	0.06-0.23	3
686 Gersuind	6.3127	0.33-0.37	3 p	767 Bondia	>60.	>0.1	HNW
687* Tinette	7.3962	0.25-0.28	3 p	768 Struveana	8.76	0.26-0.54	2+
688 Melanie	18.87	0.07-0.14	3	769 Tatjana	35.08	0.30-0.34	3-p
689 Zita	6.425	0.30-0.62	3 p	770 Ball	5.8190	0.21-0.65	3 p
690 Wratislavia	8.64	0.08-0.31	3 p	771 Libera	5.892	0.34-0.57	3 p
691 Lehigh	12.891	0.12-0.16	2+	772 Tanete	17.258	0.07-0.18	3
692 Hippodamia	8.98	0.32-0.50	3 p	773 Irmintraud	6.7514	0.09-0.15	3
693 Zerbinetta	11.475	0.14-0.29	3-	774 Armor	25.107	0.11-0.34	2
694 Ekard	5.925	0.20-0.50	3 p	775 Lumière	6.103	0.19-0.28	3 p
695 Bella	14.222	0.35-0.59	3 p	776 Berbericia	7.668	0.08-0.26	3 p
696 Leonora	26.8964	0.04-0.31	3	777 Gutemberga	12.88	0.15-0.25	2
697 Galilea	16.538	0.23	3	778 Theobalda	11.659	0.18	3
698 Ernestina	5.0363	0.30-0.67	3 p	779 Nina	11.186	0.06-0.32	3
699 Hela	3.3962	0.07-0.55	3 p	780 Armenia	19.891	0.1 -0.18	3
700 Auravictrix	6.075	0.18-0.43	3 p	781 Kartvelia	19.04	0.16-0.28	3-
701 Oriola	9.090	0.20	3	782 Montefiore	4.0728	0.31-0.54	3
702 Alauda	8.3531	0.09-0.12	2	783 Nora	34.4	0.08	2-
703 Noëmi	200.	0.28-0.78	2	784* Pickeringia	13.144	0.17-0.40	2+ p
704* Interamnia	8.727	0.04-0.17	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+	788* Hohensteina	37.137	0.10-0.18	3
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
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	0.27-0.33	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-

MINOR PLANET LIGHTCURVE PARAMETERS

Planet	Period	Variation	Note	Planet	Period	Variation	Note
802 Epyxa	4.392	0.40-0.70	3 p	887 Alinda	73.97	0.35	2 p TO
803 Picka	5.0742	0.12-0.47	3 p	888 Parysatis	5.9314	0.22-0.26	3
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	7.368	0.25-0.49	3 p	892* Seeligeria	41.39	0.13-0.75	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	9.347	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* Rockefelleria	6.826	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 p	906 Repsolda	15.368	0.24-0.24	3
823 Sisigambis	146.	>0.7	2 p TO	907 Rhoda	22.44	0.08-0.16	3-
824 Anastasia	250.	1.20	3-	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 Lindemannia	20.52	0.15	2	912 Maritima	1332.	0.10-0.18	3- TO
829 Academia	7.891	0.36-0.44	3-p	913 Otila	4.8720	0.09-0.45	3
830* Petropolitana	39.0	0.15-0.42	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	37.294	0.13-0.28	3
833 Monica	12.090	0.11-0.19	3	917* Lyka	7.92	0.10-0.14	2
834 Burnhamia	13.875	0.15-0.22	3	918 Itha	3.47393	0.20-0.30	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	12.244	0.16-0.31	3-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	0.16-0.28	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	0.11-0.57	3 p
845 Naëma	20.892	0.16	2	926 Imhilde	26.8	0.20-0.27	2
846 Lipperta	1641.	0.30	2 TO	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	0.13-0.17	3
850* Altona	11.1913	0.09-0.17	3	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	78.44	0.20-0.24	3
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 Newcambia	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
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 Aida	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	41.118	0.10-0.40	3	949* Hel	8.215	0.13-0.14	2+
869 Mellena	6.5155	0.20-0.27	3	950 Ahrensa	202.	0.40	3 TO
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	0.03-0.15	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	14.297	0.24-0.25	3-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	11.817	0.21-0.35	3	957 Camelia	150.	>0.30	1+
877 Walküre	17.424	0.33-0.44	3-p	958* Asplinda	16.543	0.18-0.64	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 Aslog	5.465	0.21	3
881 Athene	13.895	0.39-0.53	3-p	963 Iduberga	3.0341	0.30-0.34	3
882* Swetlana	29.867	0.17-0.38	3	964 Subamara	6.868	0.11-0.25	3
883 Matteredania	5.64	0.36-0.42	3	965* Angelica	26.752	0.06-0.08	3-
884 Priamus	6.8605	0.23-0.40	3 p	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

MINOR PLANET LIGHTCURVE PARAMETERS

Planet	Period	Variation	Note	Planet	Period	Variation	Note		
969	Leocadia	6.87	0.14	2	1054	Forsytia	7.650	0.23	3
970	Primula	2.777	0.16-0.30	3	1055	Tynka	11.893	0.06-0.33	2
971	Alsatia	9.614	0.17-0.29	3	1056	Azalea	11.893	0.07-0.79	2+ p
972	Cohnia	18.472	0.19-0.21	3	1057	Wanda	28.8	0.14-0.41	2
973*	Aralia	7.3662	0.20-0.25	3	1058	Grubba	46.30	0.10-0.24	3
974	Lioba	38.7	0.37	3	1059	Mussorgskia	5.636	0.2 -0.21	3
975	Perseverantia	7.267	0.17-0.23	3	1060	Magnolia	2.911	0.05-0.32	3
976	Benjamina	9.700	0.17-0.18	3-	1061	Paeonia	7.9971	0.5 -1.00	3- p
977	Philippa	15.405	0.49	3	1062	Ljuba	33.8	0.17-0.18	3
978	Aidamina	10.099	0.13-0.24	3	1063	Aquilegia	5.792	0.75-0.93	3
979	Ilsewa	42.61	0.30-0.31	3 p	1064	Aethusa	8.621	0.12-0.18	2
980	Anacostia	20.117	0.05-0.21	3 p	1065	Amundsenia	7.7594	0.14-0.16	3
981	Martina	11.267	0.15-0.24	2	1067	Lunaria	6.057	0.13-0.27	3
982	Franklina	>16.	>0.05	2-	1068	Nofretete	6.15	0.04	2
983	Gunila	8.37	0.11	2	1069	Planckia	8.665	0.14-0.42	3
984*	Gretia	5.778	0.26-0.8	3 p	1070*	Tunica	15.8	0.24-0.32	2-
985	Rosina	3.0126	0.22	3	1071*	Brita	5.8169	0.19-0.23	3
986	Amelia	9.52	0.25-0.43	3 p	1072	Malva	10.080	0.17-0.17	3
987	Wallia	10.0813	0.11-0.36	3	1073	Gellivara	11.32	0.35	2
988	Appella	>120.	>0.4	2	1074	Beljawska	6.284	0.32-0.37	3
989	Schwassmannia	107.85	0.35-0.39	3	1075	Helina	44.9	0.64-0.91	3- p
990	Yerkes	24.56	0.26-0.35	3	1076	Viola	7.336	0.12	3
992	Swasey	13.308	0.17	2	1077	Campanula	3.85085	0.24-0.40	3 p
993	Moultona	5.2712	0.73	2	1078	Mentha	85.	0.65-0.87	3
994	Otthild	5.95	0.09-0.15	2+ p	1079	Mimosa	64.6	0.07-0.13	2-
995	Sternberga	14.612	0.04-0.20	2+	1080	Orchis	16.1	0.23-0.31	3 p
996	Hilaritas	10.05	0.54-0.70	3 p	1081	Reseda	7.3002	0.34	3 p
997	Priska	16.22	0.61	2	1082	Pirola	15.8525	0.53-0.62	3 p
998	Bodea	8.574	0.68	3 p	1083	Salvia	4.23	0.61	3 p
999*	Zachia	22.837	0.22-0.30	3	1084	Tamariwa	6.1961	0.25-0.42	3
1000	Piazza	9.47	0.18-0.45	3	1085	Amaryllis	18.111	0.19-0.20	3-
1001	Gaussia	20.99	0.11-0.16	3	1086*	Nata	18.061	0.17-0.18	3-
1002	Olbersia	10.244	0.38	3 p	1087	Arabis	5.794	0.14-0.40	3 p
1003	Lilofee	8.255	0.52-0.57	3 p	1088	Mitaka	3.0361	0.23-0.62	3 p
1004	Belopolska	9.44	0.14	2	1089	Tama	16.44	0.08-0.41	3 p
1005	Arago	8.784	0.22	3	1090	Sumida	2.719	0.10-0.34	3
1006	Lagrangea	32.79	0.17	1	1091	Spiraea	7.01	>0.03	1+
1007	Pawlowia	8.23	>0.02	1	1092	Lilium	24.60	0.25-0.25	3-
1008	La Paz	8.998	0.14-0.19	3	1093	Freda	19.67	0.06-0.21	3
1010	Marlene	31.06	0.17-0.32	2+ p	1094	Siberia	21.15	0.45	2
1011	Laodamia	5.17247	0.41-0.45	3 p	1095	Tulipa	2.78721	0.14-0.23	3 p
1012	Sarema	10.32	0.81	3 p	1096	Reunerta	13.036	0.20-0.39	3
1013	Tombecka	6.053	0.44-0.50	3 p	1097	Vicia	26.5	0.08	1
1014	Semphyra	5.636	0.12	3	1098	Hakone	7.142	0.35-0.40	3 p
1015	Christa	11.230	0.12-0.20	3-	1099	Figneria	13.577	0.15-0.16	3-
1016	Anitra	5.92951	0.26-0.50	3	1100	Arnica	14.535	0.09-0.28	3
1017	Jacqueline	7.87	0.43-0.72	3 p	1101	Clematis	34.3	0.16-0.40	2
1018	Arnolda	14.617	0.28-0.39	3	1102	Pepita	5.1054	0.31-0.36	3 p
1019	Strackea	4.044	0.15-0.25	3 p	1103	Sequoia	3.03784	0.34-0.53	3 p
1020	Arcadia	17.02	0.05	1	1104	Syringa	5.1547	0.27	3
1021	Flammario	12.160	0.14-0.40	3- p	1105*	Fragaria	5.4312	0.33	3-
1022*	Olympiada	3.822	0.27-0.66	3 p	1106*	Cydonia	2.679	0.10-0.28	3
1023	Thomana	17.56	0.27-0.36	3- p	1107	Lictoria	8.5616	0.16-0.30	3
1024	Hale	16.0	0.10	1+	1108	Demeter	9.846	0.11-0.14	3
1025*	Riema	3.588	0.06-0.25	3 p	1109	Tata	8.277	0.06	2
1026	Ingrid	5.	0.5	2	1110	Jaroslawa	97.4	0.65-0.80	3- p
1027	Aesculapia	13.529	0.09-0.19	2	1111	Reinmuthia	4.02	0.61-0.95	3 p
1028	Lydina	11.680	0.22-0.7	3	1112	Polonia	82.5	0.20	2
1029	La Plata	15.310	0.26-0.58	3	1113	Katja	18.465	0.08-0.17	3
1030	Vitja	5.7014	0.18-0.21	3- A	1114*	Lorraine	20.71	0.15	3-
1031	Arctica	51.0	>0.22	2	1115*	Sabauda	6.718	0.16-0.27	3
1032	Pafuri	>24.	0.15-0.3	1	1116	Catriona	8.832	0.09-0.20	3
1033	Simona	10.07	0.04	1+	1117	Reginita	2.946	0.10-0.33	3
1034*	Mozartia		0.10		1118	Hanskya	15.61	0.18-0.38	2
1035	Amata	9.081	0.41-0.44	3 p	1119	Euboea	11.41	0.46-0.50	3 p
1036	Ganymed	10.297	0.07-0.45	3 p	1120	Cannonia	3.816	0.15-0.16	3
1038	Tuckia	23.2	0.10	2	1121	Natascha	13.197	0.51	3 p
1039	Sonneberga	34.2	0.41	2	1122	Neith	12.599	0.08	2
1040	Klumpkea	59.2	0.77	2 p	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 p
1043	Beate	44.3	0.47	2+	1126	Otero	3.64808	0.69-0.70	3 p
1044	Teutonia	3.153	0.20-0.32	3	1127	Mimi	12.749	0.72-0.95	3 p
1046	Edwin	5.2906	0.14-0.27	3	1128	Astrid	10.228	0.13-0.35	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	0.26-0.61	3 p
1049	Gotho	8.470	0.17	3-	1131	Porzia	4.6584	0.15-0.23	3
1050	Meta	6.142	0.46	3 p	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	1134	Kepler	2.75445	0.10-0.19	3

MINOR PLANET LIGHTCURVE PARAMETERS

Planet	Period	Variation	Note	Planet	Period	Variation	Note
1135 Colchis	23.47	0.33-0.46	2 p	1220 Crocus	491.4	0.15-1.00	3 TO
1136 Mercedes	24.64	0.10-0.15	2	1222 Tina	13.395	0.18-0.30	3
1137 Raissa	142.79	0.56-0.56	3-p	1223 Neckar	7.81	0.16-0.45	3 p
1139 Atami	27.446	0.15-0.45	3 B	1224 Fantasia	4.995	0.09-0.47	3
1140 Crimea	9.77	0.23-0.30	3 p	1225 Ariane	5.5068	0.30-0.36	3
1142 Aetolia	10.730	0.15-0.22	3-	1226 Golia	4.097	0.24-0.35	3
1143* Odysseus	10.114	0.15-0.22	3	1227 Geranium	12.363	0.08	3
1144 Oda	44.023	0.41	2 W	1230 Riceia	6.67317		3 p Ns
1145 Robelmonte	8.002	0.13-0.18	3-	1231 Auricula	3.9816	0.75	3 p
1146 Biarmia	5.4700	0.20-0.32	3	1232 Cortusa	25.16	0.10-0.17	2
1147 Stavropolis	5.66070	0.32-0.42	3 p	1233 Kobresia	27.83	0.32-0.34	2
1148 Rarahu	6.5447	0.05-0.94	3-p	1234 Elyna	5.4221	0.21-0.37	3
1149 Volga	27.5	0.26	2	1235 Schorria	1265.	1.40	3 TO
1150 Achaia	60.99	0.72	3 p	1236 Thais	>72.	>0.08	1
1151 Ithaka	4.93115	0.12-0.15	3	1237 Geneviève	16.37	0.17-0.23	2
1152 Pawona	3.4154	0.16-0.26	3	1238 Predappia	8.94	0.03-0.03	2- 1A
1153 Wallenbergia	4.096	0.23-0.33	3	1240 Centenaria	11.2907	0.12-0.20	3
1154 Astronomia	18.1154	0.39	3-	1241 Dysona	8.6080	0.24-0.25	3-p
1155* Aëna	8.07	0.19-0.28	2+	1242 Zambesia	15.72	0.15-0.24	2
1156 Kira	2.9710	0.20-0.26	3	1243 Pamela	26.017	0.42-0.71	2
1157 Arabia	15.225	0.37	3-	1244 Deira	210.6	0.50	2 p TO
1158 Luda	6.863	0.13-0.22	3 p	1245* Calvinia	4.8523	0.28-0.7	3 p
1159 Granada	31.	0.24-0.28	2	1246 Chaka	25.462	0.18-0.25	3
1160 Illyria	4.1025	0.56-0.91	3 p	1248 Jugurtha	12.910	0.70-1.40	3 p
1162 Larissa	6.516	0.12-0.20	3	1249 Rutherfordia	18.242	0.55-0.81	3 p
1163* Saga	9.365	0.25-0.33	3-	1250 Galanthus	3.92	0.22-0.28	3
1164 Kobolda	4.141	0.21-0.30	3	1251 Hedera	19.9000	0.41-0.61	3-p
1165 Imprinetta	8.107	0.20	3	1252 Celestia	10.636	0.26	3
1166 Sakuntala	6.29	0.32-0.40	3	1253 Frisia	14.557	0.15-0.16	2
1167 Dubiago	14.3	0.21-0.23	2	1254 Erfordia	12.287	0.33-0.47	3
1168 Brandia	11.444	0.50-0.62	3	1255* Schilowa	29.536	0.09-0.26	2 p TO
1170 Siva	5.22	0.04-0.1	1	1256 Normannia	488.063	0.29-0.39	2 W
1171 Rusthawelia	10.98	0.26-0.31	3	1257 Móra	5.2948	0.23-0.43	3
1172 Aneas	8.705	0.06-0.62	3	1258 Sicilia	13.500	0.19	3-
1173* Anchises	11.595	0.34-0.73	3 p	1259 Ogyalla	17.334	0.25-0.41	3
1174 Marmara	12.	0.2	2	1260 Walhalla		0.16	N
1175* Margo	6.0136	0.22-0.40	3 p	1261 Legia	8.693	0.13	2+
1176 Lucidor	4.0791	0.05-0.06	3	1262 Sniadeckia	17.57	0.10-0.16	3
1177 Gonnessia	30.51	0.07-0.25	3-	1263 Varsavia	7.1639	0.12-0.28	3 p
1178 Irmela	11.989	0.34-0.40	2	1264* Letaba	32.74	0.11-0.28	3 T?
1179 Mally	46.692	0.08	1 W	1265 Schweikarda	18.13	0.07	1
1180 Rita	13.090	0.05-0.30	2	1266 Tone	7.40	0.06-0.12	2 A
1181* Lilith	15.033	0.11-0.36	3	1267* Geertruida	5.5087	0.35-0.5	3
1182* Ilona	29.8553	0.92-1.2	3	1268 Libya	14.05	0.08	3
1183 Jutta	212.5	0.10	2 TO	1269 Rollandia	19.98	0.02-0.13	2 A
1184 Gaea	2.94	0.09	2	1270 Datura	3.359	0.41-0.61	3 p
1185 Nikko	3.79	0.20-0.50	3 p	1271* Isergina	7.59932	0.25-0.36	3-
1186 Turnera	12.085	0.20-0.34	3	1272 Gefion	3.087	0.20-0.22	2 W
1187 Afra	14.0701	0.38-0.40	3 p	1273 Helma	6.0851	0.26-0.32	3
1188 Gothlandia	3.4916	0.59-0.81	3 p	1274 Delportia	5.615	0.05-0.26	3
1189 Terentia	19.308	0.32-0.38	3	1275 Cimbria	5.65	0.26-0.57	3 p
1190 Pelagia	2.3661	0.08	3	1276 Uccia	4.90768	0.29-0.40	3 p
1191 Alfaterna	3.664	0.03-0.05	1	1277 Dolores	17.19	0.45	3
1192 Prisma	6.558	0.85-1.16	3 p	1278 Kenya	188.	0.75	3 p T
1193* Africa	158.7	0.80	2+	1279 Uganda	23.2	0.16	1
1194 Aletta	20.39	0.27-0.32	2+	1280 Baillauda	12.6	0.25	2
1195 Orangia	6.167	0.20	2 W	1281 Jeanne	15.18	0.45	2 p
1196 Sheba	6.319	0.21-0.28	3	1282 Utopia	13.623	0.28-0.36	3 p
1197* Rhodesia	16.060	0.22-0.32	3-	1283* Komsomolia	32.175	0.40	3
1198 Atlantis	>16.	>0.20	2	1284 Latvia	9.55	0.10-0.23	3-
1199 Geldonia	28.3	0.11	2-	1285 Julietta	20.3	0.07-0.23	1
1200 Imperatrix	17.769	0.21-0.23	3	1286 Banachiewiczza	8.63	0.36-0.54	3 p
1201 Strenua	14.775	0.30-0.35	2	1287* Lorcía	8.8776	0.46	N
1202 Marina	9.45	0.29	3	1288* Santa	7.605	0.42-0.46	3
1203 Nanna	18.54	0.12-0.15	2	1289 Kutaissi	3.60	0.20-0.42	3 p
1204 Renzia	7.885	0.42-0.49	3 p	1290* Albertine	2.8728	0.03	2
1206 Numerowia	4.7743	0.63	3 p	1291 Phryne	5.58410	0.38-0.86	3 p
1207 Ostenia	9.073	0.5 -0.7	3 p	1292 Luce	6.9541	0.17-0.26	3
1208 Troilus	56.17	0.20	2	1293 Sonja	2.878	0.14-0.21	3
1209 Pumma	8.5001	0.28	3	1294 Antwerpia	6.63	0.35-0.42	3 p
1210 Morosovia	15.2616	0.36-0.56	3 p	1295 Deflotte	14.64	0.16	2
1211 Bressole	31.812	0.50	3-	1296 Andrée	5.18366	0.23-0.27	3
1212 Francette	22.433	0.13	2	1297 Quaeda	6.267	0.21-0.35	3
1213 Algeria	>16.	>0.19	2	1298 Nocturna	34.80	0.11	2
1214 Richilde	9.860	0.31-0.32	3 p	1299 Mertona	4.977	0.46-0.59	3 p
1215 Boyer	10.36	0.31-0.50	2	1300 Marcelle	>12.	0.05	2
1216 Askania	6.536	0.30	3-	1301 Yvonne	7.320	0.52-0.90	3 p
1217 Maximiliana	3.1987	0.21	3-	1302 Werra		>0.1	
1218 Aster	3.1581	0.30-0.35	3	1303 Luthera	5.878	0.05-0.06	3
1219 Britta	5.575	0.48-0.75	3 p	1304 Arosa	7.7478	0.13-0.38	3

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Planet	Period	Variation	Note	Planet	Period	Variation	Note
1305 Pongola	8.335	0.14-0.19	3-	1389 Onnie	22.5	0.34	2 p
1306 Scythia	7.525	0.15-0.25	3	1390 Abastumani	17.100	0.15	2
1307 Cimberia	2.820	0.29-0.31	3 p	1391 Carelia	S 5.87822		p Ns
1308 Halleria	6.028	0.14-0.17	3	1392 Pierre	18.	0.09	2
1309* Hyperborea	13.88	0.34-0.54	3	1393 Sofala	S 16.5931	0.48	2 p
1310* Villigera	7.830	0.36-0.46	3 p	1394 Algoa	2.768	0.20-0.21	3
1311 Knopfia	19.296	0.20	3	1396 Outeniqua	3.08158	0.41-0.51	3 p
1312 Vassar	7.932	0.35	3 p	1397 Umtata	30.	0.13	1
1313* Berna	25.46	0.20-0.58	3 B	1398 Donnera	7.2311	0.15-0.26	3
1314* Paula	5.9498	0.81-1.24	3	1399 Teneriffa	2.692	0.14	2 W
1315 Bronislaw	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	0.14-0.26	3 p
1317 Silvertta	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	6.040	0.11-0.20	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	4.354	0.04-0.76	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-	1417* Walinskia	2.93	0.04	1
1330* Spiridonia	9.67	0.08-0.34	3	1418 Fayeta	63.641	0.15-0.24	2+
1331 Solveig	19.30	0.42-0.44	2+	1419 Danzig	8.1202	0.81-0.92	3 p
1332* Marconia	19.16	0.30-0.4	3 p	1420 Radcliffe	4.792	0.19-0.21	3-
1333 Cevenola	4.877	0.57-1.1	3 p	1421 Esperanto	21.982	0.15	3-
1334 Lundmarka	6.250	0.70	3-p	1422* Strömgrenia	3.5051	0.24-0.34	3-
1335 Demoulina	74.86	0.78-0.78	2+	1423 Jose	12.307	0.68-0.96	3 p
1336 Zeelandia	15.602	0.50-0.61	3	1424 Sundmania	93.73	0.42	2+ p
1337 Gerarda	12.52	0.23	2	1425 Tuorla	7.75	0.17-0.40	3
1338 Duponta	3.85453	0.23-0.26	3 B	1426 Riviera	4.4044	0.30-0.31	3
1339 Désagneauxa	9.380	0.45-0.48	3 p	1427 Ruvuma	4.797	0.29-0.36	3
1340 Yvette	3.525	0.16	2	1428 Mombasa	16.67	0.15-0.25	2+
1341 Edmée	23.745	0.20-0.60	2+	1429 Pemba	>20.	>0.3	1
1342 Brabantia	4.1754	0.17-0.21	3	1430 Somalia	6.913	0.40-0.45	3 p
1343 Nicole	14.76	0.38-0.42	3-	1431 Luanda	4.141	0.77-1.00	3-
1344 Caubeta	3.1220	0.16-0.25	3 B?	1432 Ethiopia	9.8458	0.40	3 p
1345 Potomac	11.41	0.22-0.24	3	1433* Geraminta	>32.	>0.25	2-
1346 Gotha	2.64067	0.10-0.16	3-	1434 Margot	8.17	0.52	3
1347 Patria	29.5	0.12	2	1436 Salont	8.870	0.17-0.33	3 p
1348 Michel	8.095	0.43-0.47	3	1437 Diomedes	24.49	0.34-0.70	3-
1349 Bechuana	15.692	0.29-0.30	3-p	1438 Wendeline	41.98	0.23	2-
1350 Rosselia	8.140	0.3-0.54	3 p	1439* Vogtia	12.898	0.33-0.36	3 p
1351 Uzbekistania	73.9	0.34-0.34	2	1440 Rostia	9.448	0.25	2 W
1352 Wavel	16.97	0.44-0.44	3 p	1443* Ruppina	5.880	0.27-0.42	3
1353 Maartje	22.930	0.25-0.46	3 p	1444 Pannonia	10.756	0.16-0.57	3
1354 Botha	4.	0.21	1+	1446 Sillanpää	9.6602	0.55-0.71	3 p
1355 Magoeba	2.9712	0.06-0.22	3 B?	1447 Utra	257.	0.63	2 TO
1356 Nyanza	12.422	0.28	3	1448 Lindbladia	10.969	0.22-0.22	3-
1357 Khama	15.692	0.34	2 W	1449 Virtanen	30.495	0.08-0.74	3-p
1359 Prieska		0.04-0.05	N	1450 Raimonda	12.66	0.57	2 p
1360 Tarka	8.87	0.43-0.73	3 p	1451 Granö	138.00	0.06-0.65	2+ T
1361 Leuschneria	12.0893	0.19-0.75	2	1452 Hunnia	17.2	>0.34	2
1362 Griqua	6.907	0.23-0.25	3	1453 Fennia	4.4121	0.10-0.20	3 B
1363 Herberta	3.015	0.12	3-	1454 Kalevala		0.37	N
1364 Safara	7.25	0.36	3-p	1455 Mitchella	118.7	0.60	2+ T?
1365 Henyey	18.986	0.23-0.32	2	1456 Saldanha	19.035	0.09-0.26	3-
1366 Piccolo	16.57	0.24-0.33	2 p	1457 Ankara	31.8	0.21	2
1367 Nongoma	94.8	0.3-0.83	1+	1458 Mineura	36.	0.04	1
1368 Numidia	3.64	0.35	3 p	1459 Magnya	4.678	0.57-0.84	3 p
1369 Ostanina	8.4001	0.3-1.11	3	1460 Haltia	3.59	0.32	3
1370 Hella		0.17	2	1461 Jean-Jacques	16.56	0.09	2
1372* Haremari	15.25	0.04-0.12	2	1462 Zamenhof	10.4	0.15-0.30	2
1373* Cincinnati	5.2834	0.10-0.21	2+	1463 Nordenmarkia	5.918	0.17-0.17	3-
1374 Isora	36.699	0.12	2+ A	1464 Armisticia	7.50	0.54	3 p
1375 Alfreda	19.14	0.05-0.17	3-	1465* Autonoma	4.882	0.13-0.15	2+
1376 Michelle	5.9748	0.03-0.20	3	1467 Mashona	9.76	0.24-0.31	3
1377 Roberbauxa	7.3627	0.22-0.24	3	1468 Zomba	2.773	0.3-0.36	3
1378 Leonce	4.3250	0.49-0.63	3 p	1469 Linzia	22.215	0.07-0.09	3
1379 Lomonosowa	24.488	0.45-0.63	3 p	1470 Carla	6.15	0.24-0.25	3
1380* Volodia	S 6.19570	0.15	p	1471 Tornio	6.60	0.07-0.20	3
1382 Gerti	3.082	0.20-0.36	3 p	1472 Muonio	8.706	0.34-0.48	3 p
1383 Limburgia	>5.	0.07		1473 Ounas	139.1	0.10-0.6	3 T+
1384 Kniertje	9.807	0.11-0.33	2	1474 Beira	4.184	0.15-0.24	3
1385 Gelria		0.36	N	1476 Cox	3.851	0.13	2 W
1386 Storeria	8.67	1.3-1.40	3 p	1477 Bonsdorffia	7.8	0.32	2
1387 Kama	50.07	0.54-0.57	3	1478 Vihuri	19.5	0.23	1
1388 Aphrodite	11.9432	0.34-0.65	3 p	1479 Inkeri	660.	1.30	2+ T

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Planet	Period	Variation	Note	Planet	Period	Variation	Note
1480 Aunus	4.646	0.19-0.32	2+	1566 Icarus	2.2726	0.05-0.22	3 p
1481 Tübingia	>24.	0.20	2	1567 Alikoski	16.405	0.16	3
1482 Sebastiana	10.489	0.57-0.78	3 p	1568 Aisleen	6.683	0.31-0.41	3 p
1483 Hakoila	>12.	0.05	1	1570* Brunonia	>48.	>0.6	W
1484 Postrema	12.1923	0.22-0.23	3-p	1572 Posnania	8.048	0.32-0.40	3 p
1486 Marilyn	4.566	0.42-0.48	3 p	1573 Väisälä	252.	0.76	2 T?
1487 Boda	11.025	0.21-0.28	3	1574 Meyer	12.64	0.12	2
1488 Aura	99.7	0.23-0.32	3	1575 Winifred	125.	1.20-1.20	3 T0
1489 Attila	11.28	0.42	3	1576* Fabiola	6.8890	0.2 -0.26	3-
1490 Limpopo	6.647	0.15-0.26	3 p	1577 Reiss	4.5050	0.18-0.20	3
1492 Oppolzer	3.7702	0.10-0.12	3-	1578 Kirkwood	12.518	0.05-0.22	2
1493 Sigrid	43.296	0.38-0.6	2 p	1580 Betulia	6.1324	0.20-0.70	3 p 3
1494 Savo	5.35011	0.38-0.63	3 p	1581* Abanderada	102.8	0.10	2-
1495 Helsinki	5.33116	0.61-0.83	3 p	1582 Martir	9.84	0.31-0.36	2
1496 Turku	6.47	0.51	3-p	1583* Antilochus	15.889	0.09-0.12	2+
1497* Tampere	3.64	0.20-0.42	3-	1584 Fujii	14.880	0.17-0.29	3
1498 Lahti	58.	0.8	1+	1585 Union	9.38	0.22	2
1499 Pori	3.3557	0.12-0.34	3	1586 Thiele	3.086	0.14-0.38	3
1500 Jyväskylä	8.82750		p Ns	1587 Kahrstedt	7.930	0.12-0.19	2+
1501 Baade	15.132	0.19-0.40	2	1589 Fanatica	2.58	0.16-0.18	3
1502 Arenda	45.8	0.4	2	1590 Tsiolkovskaja	6.731	0.10-0.4	3
1503 Kuopio	9.957	0.65-0.90	3 p	1591* Baize	7.794	0.23-0.37	3-
1504* Lappeenranta	15.190	0.09-0.29	2+	1592 Mathieu	28.46	0.50	2+ p
1505 Koranna	4.451	0.53-0.70	3	1593 Fagnes	25.25	0.30-0.47	3-
1506 Xosa	292.	0.42-0.70	2+	1594 Danjon	>12.	>0.03	1
1507 Vaasa	34.07	0.15-0.24	3	1595 Tanga	11.05	0.35	3-
1508 Kemi	9.196	0.25-0.55	3 p	1596 Itzigsohn	39.722	0.25-0.41	2
1509 Esclangona	3.25283	0.11-0.35	3 B	1597 Laugier	8.0199	0.68-0.71	3 p
1510 Charlois	5.866	0.18-0.23	2	1598 Paloque	5.949	0.30-0.33	3-
1511 Daléra	3.880	0.14-0.18	3-	1599* Giomus	9.53	0.06	2
1512 Oulu	132.3	0.33	2+ T?	1600 Vyssotsky	3.2011	0.13-0.28	3 p
1513 Mätra	>24.	>0.1	1	1601 Patry	5.92	0.17-0.60	3
1514 Ricouxa	10.438	0.62	3 p	1602 Indiana	2.601	0.12-0.19	3
1515 Perrotin	13.965	0.19	3-	1603 Neva	6.4249	0.22-0.25	2
1516 Henry	17.370	0.04-0.54	2	1604* Tombaugh	7.24	0.16-0.35	3-
1517 Beograd	6.943	0.18-0.23	2	1605 Milankovitch	11.60	0.12-0.14	2
1518 Rovaniemi	5.249	0.25-0.26	3 p	1606 Jekhovskiy	165.946	0.31	2 W
1520 Imatra	18.635	0.27-0.35	3-	1607 Mavis	6.1339	0.50-0.53	3 p
1521 Seinäjoki	4.32	0.15	3 p	1608* Muñoz	5.3456	0.36	3
1522 Kokkola	5.83	0.29	3	1609* Brenda	19.776	0.16-0.27	3
1523 Pieksämäki	5.3202	0.28-0.5	3	1611 Beyer	13.29	0.12-0.35	2+
1524 Joensuu	9.276	0.33	3	1612 Hirose	12.295	0.25	2 W
1525 Savonlinna	14.634	0.50-0.52	2	1613 Smiley	80.61	0.29-0.30	2+
1527 Malmquista	14.077	0.42-0.54	3 p	1614 Goldschmidt	8.873	0.14-0.14	2- p
1528 Conrada	6.321	0.41-0.49	3 p	1615 Bardwell	>18.	>0.2	1 D
1529* Oterma	14.321	0.10-0.18	3 p	1616 Filipoff	5.652	0.17	3
1530 Rantaseppä	3.5258	0.41	3	1617 Alschmitt	7.062	0.39-0.52	3
1531 Hartmut	25.57	0.21-0.26	2+	1618 Dawn	43.19	0.38-0.65	2+ p
1532 Inari	25.	0.09	1+	1619 Ueta	2.720	0.32-0.44	3 p
1533 Saimaa	7.08	0.18-0.26	3	1620* Geographos	5.22204	0.95-2.03	3 p
1534 Näsi	7.94	0.22-0.51	3- p	1621 Druzhba	99.20	0.75-0.75	3 p T-
1535 Päijänne	8.8448	0.50	3	1622 Chacornac	12.206	0.21-0.25	2
1536 Pielinen	66.22	0.75-0.85	3 T+	1623 Vivian	20.5209	0.85	3- p
1537 Transylvania	>12.	>0.15	1	1625 The NORC	13.959	0.06-0.16	3-
1540 Kevola	20.082	0.23-0.33	3-	1626 Sadeya	3.420	0.07-0.22	3
1541 Estonia	10.1	0.13	2-	1627 Ivar	4.795	0.25-1.40	3 p
1542 Schalén	7.516	0.49	3	1628 Strobel	9.52	0.20-0.22	2
1543 Bourgeois	2.48	0.03	1	1629 Pecker	8.2166	0.08	2 A
1544 Vinterhansenia	13.77	0.15-0.18	2	1630 Milet	32.55	0.37	2 p
1545 Thernöe	17.20	0.76	3 p	1631 Kopff	6.683	0.41	3
1546 Izsák	7.350	0.31	3 p	1632 Sieböhme	56.65	0.44-0.47	2
1547 Nele	7.100	0.18-0.45	3- p	1633 Chimay	6.5911	0.31-0.58	3 p
1548 Palomaa	7.4961	0.50	3 p	1634 Ndola	64.23	0.4	2 p
1549 Mikko	11.49	0.03	1+	1635 Bohrmann	5.864	0.25-0.50	3 p
1550 Tito	54.2	0.16-0.40	2	1636 Porter	2.9658	0.22-0.24	3
1551 Argelander	4.061	0.41	2 p s	1637* Swings	10.264	0.28	3
1552 Bessel	8.996	0.29	3 p	1638 Ruanda	4.2397	0.10-0.10	3 3
1553 Bauersfelda	51.191	0.26	2 W	1639* Bower	22.181	0.15-0.38	3-
1554* Yugoslavia	3.8879	0.60-0.74	3 p	1640 Nemo	5.0	0.52	3
1555* Dejan	16.960	0.41	2+	1641 Tana	7.95	0.32-0.33	3- p
1556 Wingolfia	10.	0.15	2 D	1642 Hill	6.056	0.21-0.25	3
1557 Roehla	5.67899		p Ns	1643 Brown	5.932	0.48-0.50	3 p
1558 Järnefelt	18.22	0.40	2	1644* Rafita	3.344	0.13-0.38	3
1559 Kustaanheimo	4.302	0.23-0.29	3 p	1645 Waterfield	4.861	0.18-0.20	3
1560 Strattonia	18.423	0.18	3	1646 Rosseland	69.2	0.13	2
1561 Fricke	15.15330		p Ns	1647 Menelaus	17.74	0.15-0.32	3-
1562 Gondolatsch	8.78	0.30-0.4	3-	1648 Hajna	6.414	0.63-0.69	3 p
1563 Noël	3.5495	0.14-0.18	3	1650 Heckmann	14.893	0.06-0.16	3
1564 Srbija	9.135	0.17-0.37	3	1651 Behrens	34.34	0.16	2
1565 Lemaître	11.403	0.04	2 A	1652 Hergé	16.36	0.42	3-

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1653	Yakhontovia	15.41	0.03	2	1741	Giclas	2.943	0.10-0.15	3
1654	Bojeva	10.5559	0.27	2	1742	Schafers	8.56	0.80-1.46	3 p
1655	Comas Solá	20.456	0.20-0.22	3	1743	Schmidt	17.45	0.36	3 p p
1656	Suomi	2.583	0.11-0.20	3	1746	Brouwer	19.8	0.21-0.35	2 p p
1657	Roemera	34.0	0.09-0.15	2	1747	Wright	5.2896	0.53-0.61	3 p
1658	Innes	3.191	0.22-0.25	3	1748*	Mauderli	5.552	0.1 -0.25	3
1659	Punkaharju	5.01	0.26-0.43	3 p	1749	Telamon	16.975	0.06-0.10	3-
1660	Wood	6.8090	0.14-0.26	3	1750	Eckert	375.	0.87	3-p T
1661	Granule	>24.	0.15	2	1751*	Herget	3.9397	0.30-0.31	3
1662	Hoffmann	8.784	0.26	3	1753	Mieke	8.8	0.2	2 p P
1663	van den Bos	740.	0.80	3-p T0	1754	Cunningham	7.7416	0.08-0.17	3
1664	Felix	3.3454	0.38	3	1756	Giacobini	3.8527	0.21	3
1665	Gaby	66.	0.27	2 p	1757	Porvoo	4.89	0.30	3
1666	van Gent	4.16504	0.23-0.42	3	1758	Naantali	5.4699	0.44-0.46	3 p
1667	Pels	3.268	0.20-0.42	3	1759	Kienle	29.25	0.30	2
1669	Dagmar	>12.	>0.15	1	1760	Sandra	6.5668	0.42	3
1670	Minnaert	3.528	0.23-0.25	3	1761	Edmondson	4.208	0.29	3
1671	Chaika	3.7718	0.18-0.20	3	1762	Russell	12.797	0.46	3-
1672	Gezelle	40.72	0.56-0.56	3 p	1763	Williams	>36.	>0.3	2
1674*	Groeneveld	8.02	0.19-0.24	2	1764	Cogshall	3.62417	0.20-0.22	3
1675	Simonida	5.2885	0.16-0.65	3	1765	Wrubel	5.260	0.33	3
1676	Kariba	3.1673	0.51-0.65	3 p	1766	Slipher	7.677	0.19-0.20	2 W
1677*	Tycho Brahe	3.848	0.38-0.46	3-	1768	Appenzella	5.1839	0.53	3 p
1678	Hveen	5.987	0.07	2	1770	Schlesinger	2.88036	0.25-0.31	3 B?
1679	Nevanlinna	17.92	0.16	3-	1771	Makover	11.26	0.25	3
1680	Per Brahe	3.428	0.10-0.17	3	1772	Gagarin	10.96	0.24-0.41	2 p
1681	Steinmetz	8.99917	0.42	3	1773	Rumpelstilz	105.44	0.62-0.77	3
1682	Karel	3.37485	0.47-0.47	3 p	1774	Kulikov	3.83079		3 p Ns
1683	Castafiore	13.931	0.66	2+	1775	Zimmerwald	122.	0.6	2+ T
1684	Iguassú	9.142	0.15	2 W	1777	Gehrels	2.83552	0.21-0.27	3
1685	Toro	10.1995	0.47-1.80	3 p	1778	Alfvén	4.82	0.36-0.40	3- W
1687	Glarona	6.3	0.75	3 p	1780	Kippes	18.0	0.23	2
1688	Wilkens	7.248	0.23-0.34	3	1782	Schneller	11.86	0.71	1 DAW
1689	Floris-Jan	145.	0.02-0.4	3 T?	1783	Albitskij	>12.	0.4	2
1690	Mayrhofer	22.194	0.30-0.45	2	1785	Wurm	3.2693	0.28-0.30	3 p
1691	Oort	10.2705	0.38	3 p	1786*	Raabe	18.72	0.15-0.48	3
1692	Subbotina	9.2457	0.30	3	1788	Kiess	11.034	0.25-0.30	2 W
1693	Hertzprung	8.825	0.45	3	1789	Dobrovolsky	4.812	0.11-0.70	3 p
1694	Kaiser	13.02	0.14-0.32	3	1790	Volkov	10.7419	0.09-0.14	3
1695	Walbeck	5.1607	0.20-0.34	3	1791	Patsayev	19.809	0.28	3
1696*	Nurmela	3.1587	0.33-0.58	3	1792	Reni	15.95	0.54	3-p
1697	Koskenniemi	2.3923	0.07-0.09	2+	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	0.12-0.27	3	1797	Schaumasse	6.1125	0.73-0.75	3
1703	Barry	107.1	0.46-0.50	3 p T?	1798*	Watts	3.5060	0.06	3 NB
1704	Wachmann	3.314	0.40	3 p	1799	Koussevitzky	6.318	0.25-0.40	3
1705	Tapio	54.8	0.29-0.44	2	1800	Aguilar	2.478	0.11	3
1706	Dieckvoss	2.58944	0.12	3-	1801	Titicaca	3.2106	0.50	3 p
1707	Chantal	>10.	>0.2	3 PN	1802	Zhang Heng	3.162	0.27-0.37	2+
1708	Pólit	7.520	0.30-0.50	3 p	1803	Zwicky	27.1	0.08	1
1709*	Ukraina	7.28	0.45-0.66	3 p	1804	Chebotarev	4.026	0.41	3
1710	Gothard	4.939	0.31-0.32	3	1805	Dirikis	23.0	0.45	2 p
1712	Angola	11.527	0.38	3	1806	Derice	3.2240	0.07-0.19	3
1714	Sy		0.95	3 N	1807	Slovakia	308.6	0.25-1.10	3 T0
1715	Salli	11.087	0.22-0.61	3 p	1808	Bellerophon	3.820	0.19	2
1716	Peter	11.514	0.48-0.52	3 p	1810	Epimetheus	28.61	0.04	2
1717	Arlon	5.1484	0.07-0.12	3 B	1811	Bruwer	17.565	0.25-0.35	3-
1718	Namibia	8.6028	0.13-0.25	3	1813	Imhotep	17.994	0.42-0.80	2+
1719	Jens	5.87	0.50-0.55	3 p	1814	Bach	7.23954		3 p Ns
1720	Niels	9.976	0.15	1 1	1815	Beethoven	54.	0.2	1
1722*	Goffin	29.19	0.50-0.63	3-	1816	Liberia	3.086	0.19-0.39	3 p
1723	Klemola	6.2545	0.16-0.41	3 p	1817	Katanga	8.481	0.22-0.42	3
1724	Vladimir	12.582	0.14-0.24	2+	1819	Laputa	9.8004	0.51	3 p
1725	CrAO	21.45	0.08-0.28	2	1820	Lohmann	14.0554	0.40-0.55	3 p
1726	Hoffmeister	11.706	0.40	2 W	1822	Waterman	7.581	0.51	3
1727	Mette	2.98109	0.19-0.38	3 B	1823	Gliese	4.4864	0.23-0.27	3
1728	Goethe Link	81.	0.39	2	1825	Klare	4.744	0.70-0.90	3 p
1729	Beryl	4.8888	0.14-0.20	3	1826	Miller	30.049	0.08	2
1730	Marceline	3.837	0.59-1.00	3 p	1827	Atkinson	3.757	0.22	3-
1731	Smuts	12.5	0.08	2	1828	Kashirina	14.838	0.42	3-
1732	Heike	4.742	0.27-0.32	3	1829*	Dawson	4.254	0.05-0.32	3
1733	Silke	7.89457		3 p Ns	1830	Pogson	2.56999	0.10-0.18	3 M
1734	Zhongolovich	7.171	0.21	3	1831	Nicholson	3.228	0.24-0.29	3
1735	ITA	12.599	0.27-0.40	3-p	1832	Mrkos	13.64	0.18	3-
1736	Floirac	6.775	0.08-0.25	3	1833	Shmakova	3.93	0.38-0.58	3 p
1737	Severny	14.11	0.14-0.17	2	1834	Palach	3.139	0.13-0.16	2
1738	Oosterhoff	4.4486	0.48-0.54	3 p	1835	Gajdariya	6.3276	0.50	3 p
1739	Meyermann	2.8219	0.17-0.22	3	1836	Komarov	8.8015	0.39-0.56	3

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Planet	Period	Variation	Note	Planet	Period	Variation	Note
1837 Osita	3.81862	0.48-0.59	3 p	1946 Walraven	10.21	0.6 -0.90	2+ p
1838 Ursa	16.141	0.76-0.80	3 p	1947 Iso-Heikkilä	5.0158	0.35	NA
1840 Hus	4.780	0.85	2 p	1949 Messina	3.6491	0.32-0.37	3 p
1841 Masaryk	7.53	0.52	2+ p	1950 Wempe	16.788	0.97-0.98	3 p
1842 Hynek	3.9410	0.07-0.17	3	1951 Lick	5.3016	0.15-0.33	3
1843* Jarmila	7.434	0.20	3-	1952 Hesburgh	47.7	>0.18	2
1844 Susilva		0.47		1953* Rupertwildt	4.39	0.16	3-
1845* Helewalda	7.2786	0.15-0.34	3-	1954 Kukarkin	136.40	0.80	3-
1847 Stobbe	5.617	0.27-0.35	3	1955 McMath	5.574	0.30-0.39	3
1848 Delvaux	3.637	0.57-0.69	3	1956 Artek	9.4	0.07	1+
1849 Kresák	19.101	0.19	2 W	1957 Angara	3.67	0.52	3
1850 Kohoutek	3.68	0.31	2 W	1958 Chandra	7.070	0.35-0.38	3-
1853 McElroy	8.016	0.18-0.30	3-	1959 Karbyshev	7.726	0.49-0.49	2 W
1854 Skvortsov	78.5	0.56	2	1960 Guisan	8.46	0.52	3
1855 Korolev	4.6568	0.75-0.76	3 p	1961 Dufour	15.79	0.31-0.35	3-
1857 Parchomenko	3.1177	0.22-0.27	3 B?	1963 Bezovec	18.160	0.15-0.60	3 p
1858 Lobachevskij	5.413	0.22-0.48	2+ p	1965 van de Kamp	>36	0.5	1
1859 Kovalevskaya	11.1140	0.13-0.44	2+	1967 Menzel	2.835	0.24-0.39	3
1860 Barbarossa	3.255	0.28-0.35	3 p	1969* Alain	32.4	0.75	2-
1862 Apollo	3.065	0.15-1.15	3 p B	1972 Yi Xing	14.183	0.18	2
1863 Antinous	7.453	0.13-0.33	3 p	1973 Colocolo	9.988	0.31	2 W
1864* Daedalus	8.572	0.72-1.04	3 p	1977 Shura	7.461	0.34	3
1865 Cerberus	6.8039	1.48-2.3	3 p	1978* Patrice	5.8813	0.13	2+ p
1866 Sisyphus	2.400	0.02-0.14	3 B	1979 Sakharov	7.5209	0.12-0.22	3 B?
1867 Deiphobus	58.66	0.10-0.27	3-	1980 Tezcatlipoca	7.24612	0.55-1.01	3 p
1868 Thersites	10.48	0.14-0.27	3-	1981 Midas	5.220	0.65-0.87	3
1870 Glaukos	5.986	0.27-0.42	3	1982 Cline	5.78	0.36	3
1871 Astyanax	6.52	0.13	2-	1983 Bok	10.70	0.40-0.46	3-
1873 Agenor	20.60	0.08	2	1985 Hopmann	17.480	0.36-0.44	3 p
1874 Kacivelia	15.951	0.21	3-	1987 Kaplan	9.453	0.46-0.65	3 p
1875 Neruda	3.697	0.17	2 W	1988 Delores	88.152	0.74	2 W
1876 Napolitania	45.63	0.39	2 B?	1989 Tatry	131.3	0.22-0.50	2 T?
1877 Marsden	14.4	0.22	2	1990* Pilcher	2.842	0.10	2+
1878* Hughes	2.683	0.10	3 W	1991 Darwin	4.7	0.08	2
1879 Broderstroom	3.02	0.11-0.12	3	1992 Galvarino	7.004	0.6	3
1881 Shao	7.452	0.11-0.15	2	1994 Shane	8.220	0.26	3
1882 Rauma	25.	0.1	2	1995 Hajek	>10.	0.1	1+
1883* Rimito	6.492	0.04	2	1996 Adams	3.311	0.28-0.60	3 p
1884* Skip	2.8887	0.12-0.20	3	1997 Leverrier	8.01532		3 p
1885 Herero	7.609	0.21-0.23	2 W	1998* Titius	6.13	0.20-0.24	3
1888* Zu Chong-Zhi	11.053	0.28-0.56	3	1999 Hirayama	15.63	0.45-0.57	3-
1889 Pakhmutova	17.490	0.49-0.50	3- p	2000 Herschel	130.	0.17-1.16	2 T+
1892 Lucienne	9.31	0.42	2 p	2001 Einstein	5.487	0.66-1.02	3 p
1893 Jakoba	23.9	>0.1	1+	2002 Euler	5.9929	0.18-0.31	3 p
1896 Beer	3.3278	0.40	3	2003 Harding	2.96	0.18	1
1897 Hind	2.6336	0.09	2	2004 Lexell	5.4429	0.42-0.51	3
1899 Crommelin	8.0393	0.26-0.27	3	2005 Hencke	10.186	0.08	2
1900 Katyusha	9.4999	0.63-0.74	3 p	2006 Polonskaya	3.1183	0.08-0.16	3 B
1902* Shaposhnikov	20.988	0.29-0.42	3 p	2007 McCuskey	8.611	0.18-0.21	3
1904 Masevitch	5.394	0.30	3-	2008 Konstitutsiya	11.2692	0.06-0.08	3 3
1906* Naef	11.009	0.92-0.99	3 p	2009 Voloshina	5.896	0.27-0.40	3-
1907 Rudneva	44.	>0.1	1+	2011 Veteraniya	8.209	0.30	3-
1909 Alekhin	148.6	0.42-0.45	3 TO	2012 Guo Shou-Jing	>12.	0.05	1+
1910 Mikhailov	8.88	0.25	2	2013 Tucapel	9.028	0.34	3
1911* Schubart	11.915	0.11-0.22	2	2014 Vasilevskis	32.16	0.26-0.31	3-
1912 Anubis	4.626	0.18-0.47	2 W	2015 Kachuevskaya	42.532	0.76-1.20	3
1913 Sekanina	13.97	0.30-0.31	2+ W	2016 Heinemann	22.96	0.36	2+
1914 Hartbeespoortdam	6.331	0.04	2	2017 Wesson	3.4158	0.38-0.60	3
1915 Quetzálcoatl	4.9	0.26	2	2019 van Albada	2.729	0.13-0.22	2+
1916 Boreas	3.4746	0.25-0.35	3	2020 Ukko	25.478	0.24	2+ A
1917* Cuyo	2.6890	0.11-0.41	3 A	2022* West	14.14	0.50	3-
1919 Clemence	67.4	0.15-0.60	2 TO	2023 Asaph	3.87	0.05-0.06	2-
1920 Sarmiento	4.048	0.28-0.35	3	2026 Cottrell	4.4994	0.42-0.77	3
1922 Zulu	18.64	0.11	3	2028 Janequeo	2.480	0.27	2 W
1924 Horus	6.183	0.19-0.24	3	2029 Binomi	3.756	0.51-0.52	2 W
1925 Franklin-Adams	2.978	0.23-0.32	3 p	2031 BAM	10.774	0.15	3
1926* Demiddelaer	32.095	0.08-0.15	2	2033 Basilea	6.5287	0.28	3-
1927 Suvanto	8.164	0.60-0.63	3 p	2034 Bernoulli	6.248	0.21	2+
1928 Summa	6.8549	0.13-0.18	3 A	2035 Stearns	93.	0.20-0.7	2+
1929 Kollaa	2.9887	0.20-0.22	3	2036 Sheragul	5.4130	0.58-1.50	3 p
1930 Lucifer	13.056	0.22-0.44	3 p	2037 Tripaxephalis	2.33	0.10	2 A
1933 Tinchen	3.671	0.37-0.55	3 p	2038 Bistro	17.051	0.12	2-
1936 Lugano	19.651	0.25-0.31	3	2039 Payne-Gaposchkin	27.633	0.24	2 W
1938 Lausanna	2.748	0.12-0.13	3-	2040* Chalonge	10.303	0.22	2
1939 Loretta	25.	0.12	1	2042* Sitarski	2.63	0.36	1+
1940 Whipple	6.953	0.15-0.25	3	2043 Ortutay	7.7475	0.44	3-
1941 Wild	9.05	0.36	2	2044 Wirt	3.6898	0.12-0.26	3 B
1942 Jablunka	8.91158		3 p	2045* Peking	82.4	>0.8	2 T
1943 Anteros	2.86923	0.07-0.10	3 B	2046 Leningrad	5.296	0.11	2+
1945* Wesselink	3.5473	0.45-0.55	3 p	2047 Smetana	2.4970	0.12-0.16	3 B

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2048 Dwornik	3.677	0.05-0.22	3	2151 Hadwiger	5.872	0.07-0.38	3
2049 Grietje	8.910	0.12-0.12	2	2152 Hannibal	5.978	0.32	3
2050 Francis	3.069	0.20	2+	2153 Akiyama	12.532	0.26-0.27	2
2052 Tamriko	7.462	0.11-0.15	2	2156 Kate	5.6228	0.54-0.88	3
2054 Gawain	11.1098	0.61-1.05	2	2159 Kukkamäki	4.06	0.32	3
2055 Dvořák	4.405	0.17	3-	2160 Spitzer	5.9		N
2056 Nancy	>15.0	0.08	1	2161 Grissom	5.0633	0.27	2+
2058 Róka	10.04	0.34-0.40	3-	2163 Korczak	3.997	0.34	2
2060 Chiron	5.918	0.04-0.09	3	2164 Lyalya	11.57	>0.15	2-
2061 Anza	11.50	0.3	2	2166 Handahl	7.2263	0.11-0.13	3
2062 Aten	40.77	0.26-0.26	2	2167 Erin	5.7186	0.3 -0.53	3
2063 Bacchus	14.904	0.22-0.42	3	2169 Taiwan	7.252	0.17	2
2064 Thomsen	4.233	0.62-0.78	3	2170 Byelorussia	6.768	0.63-0.70	2
2065 Spicer	18.165	1.00	3	2173 Maresjev	11.6	0.42	1
2066 Palala	9.732	0.34-0.62	3	2175 Andrea Doria	4.880	0.25	3
2067 Aksnes	17.75	0.24	2	2177 Oliver	6.11	0.42-0.45	3
2068 Dangreen		0.04	N	2179 Platzcek	5.995	0.24	3
2069 Hubble	32.52	0.10	3	2180 Marjaleena	7.396	0.25-0.43	2
2072 Kosmodemyanskaya	4.4	0.05-0.09	2	2181 Fogelin	14.07	0.57	3
2073 Janáček	3.56	0.24-0.42	2	2182 Semirof	8.328	0.32	3-
2074 Shoemaker	2.5328	0.06-0.13	3	2183 Neufang	3.8662	>0.25	3
2075 Martinez	4.755	0.28	2	2185 Guangdong	21.089	0.19-0.30	3-
2077 Kiangsu	104.2	0.23-0.3	2+	2186 Keldysh	7.567	0.20	2
2078 Nanking	6.473	0.79-1.19	3	2187 La Silla	11.843	0.35-0.6	2
2080 Jihlava	2.70876	0.15-0.27	3-	2189 Zaragoza	4.92815	0.17-0.91	3
2083 Smither	2.6717	0.08-0.11	3	2193 Jackson	4.7541	0.23-0.24	3
2084 Okayama	4.5470	0.25	3	2195 Tengström	2.82112	0.17-0.45	3
2085* Henan	>24.	>0.25	1	2196 Ellicott	9.0706	0.10-0.12	3-
2086 Newell	78.2	1.0	2	2197 Shanghai	5.99	0.16	2
2087 Kochera	6.109	0.37	3	2199 Klet	12.857	0.10-0.13	3
2088 Sahlia	10.37	0.12	2	2200 Pasadena		0.03	
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 Lyyl	11.063	0.39-0.52	3-
2093 Gampchesk	11.028	0.23-0.27	3	2207* Antenor	7.9647	0.09-0.23	3-
2094 Magnitka	6.1124	0.80-0.86	3	2208 Pushkin	8.405	0.46	2
2096 Väinö	3.32	0.06-0.10	2	2209 Tianjin	9.47	0.41-0.42	3
2097 Galle	7.310	0.4	2	2210 Lois	2.42	0.16	2
2098 Zyskin	3.920	0.08	2	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	2214 Carol	4.987	0.60-0.72	3
2102 Tantalus	2.384	0.06-0.12	2+	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	2221 Chilton	7.445	0.20	2
2108 Otto Schmidt	6.90	0.16	2	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	2224 Tucson	27.01	0.54	3-
2111 Tselina	6.563	0.17-0.29	3	2228* Soyuz-Apollo	5.388	0.4 -0.54	3
2112 Ulyanov	3.041	0.32-0.36	3	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	2239 Paracelsus	6.101	0.31	3-
2117 Danmark	16.598	0.54	3-	2241 Alcahous	7.689	0.20-0.25	3
2118 Flagstaff	15.17	0.23-0.35	3-	2242 Balaton	2.7979	0.18	3
2120 Tyumenia	2.769	0.33-0.39	2	2245 Hekatostos	20.61	0.21	2+
2121 Sevastopol	2.90640	0.15-0.20	3	2246 Bowell	4.992	0.20-0.46	3
2122 Pyatiletka	8.899	0.10	1	2249 Yamamoto	31.590	0.14	2
2123 Vltava	34.0	0.19-0.21	2	2250 Stalingrad		0.50	N
2126 Gerasimovich	22.951	0.12	2	2251* Tikhov	5.670	0.39-0.42	3
2127 Tanya	7.864	0.18	2	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	2255* Qinghai	9.781	0.41	3-
2132 Zhukov	6.836	0.45-0.58	3-	2257 Kaarina	3.04866	0.13-0.16	3
2133* Franceswright	4.05616	0.73	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
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	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	2
2142* Landau	19.2	0.20	2-	2266 Tchaikovsky	37.7	0.04-0.09	2
2144* Marietta	5.488	0.40-0.44	3	2268 Szmytowna	11.260	0.42-0.60	3
2145 Blaauw	12.141	0.18	2+	2269 Efremiana	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	2271 Kiso	17.14	0.14	3-
2149 Schwambraniya	5.070	0.24	2	2272 Montezuma	8.183	1.08-1.53	3
2150 Nyctimene	6.131	0.58-0.90	3	2274 Ehrsson	78.	0.5	3-

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2275 Cuitlahuac	6.2891	1.10	3 p	2385 Mustel	4.5940	0.55	3
2276 Warck	4.054	0.20-0.25	3	2387 Xi'an	4.298	0.24	2 W
2277 Moreau	>12.	0.08	2-	2388 Gase	26.30	0.48	1 DAW
2280* Kunikov	21.45	1.0	3-	2390 Nežárka	11.349	0.29-0.42	3-
2281 Biela	4.929	0.09	2 W	2391 Tomita	7.9533	0.14-0.15	3
2282 Andrés Bello	3.425	0.65	3	2393 Suzuki	9.31	0.40	2+ p
2283 Bunke	3.96	0.04-0.06	2	2395 Aho	7.88033		3 p Ns
2284 San Juan	9.18	0.60-0.62	3	2397* Lappajärvi	9.044	0.40-0.58	3-
2285 Ron Helin	>12.	0.10	1+	2398 Jilin	3.17767	0.06-0.12	3
2286 Fesenkov	5.404	0.23	2 W	2402 Satpaev	8.1127	0.21-0.38	3
2287 Kalmykia	>12.	0.07	2-	2406 Orelskaya	6.110	0.14	2 W
2288 Karolinum	42.16	0.15-0.40	2+	2407* Haug	6.162	0.32	3
2289 McMillan	2.238	0.08	1 W	2408 Astapovich	3.67381	0.16-0.18	3
2290 Helffrich		0.10	1 N	2411 Zellner	2.975	0.31-0.34	3
2291* Kevo	9.63	0.27-0.54	3-	2415 Ganesa	8.	0.15	2
2292 Seili	5.121	0.25-0.42	3	2416 Sharonov	10.82	0.05	1
2293 Guernica	6.414	0.40-0.48	3	2417 McVittie	4.934	0.42	3
2294 Andronikov	3.1529	0.35-0.42	3	2419 Moldavia	2.412	0.14	2
2296 Kugultinov	8.43	0.19-0.23	2+	2420* Čiurlionis	15.760	0.48-0.51	3-
2297 Daghestan	7.75	0.24-0.37	3	2421 Nininger	6.4058	0.18-0.37	3-
2298 Cindijon	14.506	0.16	3-	2422 Perovskaya	>40.	>0.17	2
2301 Whitford	14.275	0.35	2 W	2423 Ibarruri	139.79	0.27-0.74	3 T-
2302 Florya	>12.	0.05	1	2425 Shenzhen	14.715	0.80	3 p
2303 Retsina	10.82	0.39-0.45	3	2426 Simonov	5.811	0.40	3
2304* Slavia	2.9166	0.23-0.29	3-	2428* Kamenyar		0.06	1 N
2306* Bauschinger	21.69	0.6 -0.77	3 p	2429 Schürer	6.66	0.12-0.77	3-
2307 Garuda	29.64	0.32	2+	2430* Bruce Helin	128.	0.60-0.67	2 p TO
2308 Schilt	9.759	0.42-0.44	3	2431 Skovoroda	3.13	0.21	2 W
2309 Mr. Spock	6.722	0.56	3	2432 Soomana	3.206	0.36-0.40	3-
2310 Olshaniya	16.169	0.46	3-	2433 Sootiyo	7.2298	0.4 -0.54	2+
2311* El Leoncito	18.6	0.23	2	2436 Hatshepsut	8.983	0.47	2 W
2312 Duboshin	50.78	0.15	2+	2437 Amnestia	85.	0.45	2 TO
2313 Aruna	8.90	0.79	3 p	2438 Oleshko	3.227	0.19	3
2315 Czechoslovakia	10.0253	0.52	3	2440* Educatio	1561.	0.80	2 TO
2316 Jo-Ann	33.0	0.33	2- W	2441 Hibbs	5.926	0.16	2 W
2317 Galya	2.60	0.22-0.30	2	2442 Corbett	>10.	0.12-0.19	2
2319 Aristides	86.787	0.56-0.61	2 W	2443 Tomeileen	3.974	0.10-0.13	2
2320 Blarney	5.097	0.32	3	2444 Lederle	17.85	0.18-0.45	2+
2323 Zverev	3.921	0.36-0.39	3	2445 Blazhko	3.6197	0.57	3
2324 Janice	23.2	0.19	2-	2446 Lunacharsky	3.613	0.41	3
2328 Robeson	18.632	0.20	2+	2448* Sholokhov	10.059	0.21-0.63	3
2329 Orthos	4.6473	0.18-0.67	3-	2449 Kenos	3.8492	0.14-0.23	3 B?
2331 Parvulesco	32.03	0.50	3	2450 Ioannisiani	5.650	0.23-0.29	2 W
2332 Kalm	22.8	0.39	2	2451 Dollfus	48.	0.1	1
2333 Porthan	27.784	0.10-0.58	3	2453 Wabash	6.878	0.63-0.67	3
2334 Cuffey	5.858	0.37	3-	2454 Olaus Magnus	3.804	0.39	3
2336 Xinjiang		0.12	1 N	2455 Somville	2.8287	0.12-0.18	3 p
2338 Bokhan	>8.	0.05	1	2456 Palamedes	7.24	0.05-0.27	3
2339 Anacreon	>24.	>0.05	1	2459 Spellmann	6.533	0.65	2 W
2340 Hathor	3.350	0.11-0.11	3	2460 Mitlincoln	3.01	0.03-0.20	3
2341 Aoluta	3.0	0.25-0.28	3	2461 Clavel	5.238	0.33	2 W
2343 Siding Spring	2.10659	0.15-0.19	3 M	2462 Nehalennia			2 HNW
2344 Xizang	13.	0.39	2 W	2463 Sterpin	13.44	0.25-0.30	2
2345 Fučík	17.12	0.10-0.39	2	2464 Nordenskiöld	5.209	0.29-0.51	3-
2346 Lilio	3.031	0.20-0.31	3 3	2468 Repin	5.122	0.55-0.72	3
2347 Vinata	4.4835	0.32	3	2471 Ultrajectum	3.875	0.21-0.23	2 W
2348 Michkovitch	>28.	>0.12	2	2472 Bradman	5.894	0.11	1
2349 Kurchenko	8.622	0.06	2 W	2474 Ruby	7.42	0.11-0.22	3
2351 O'Higgins	4.7889	0.50	3	2476 Andersen	8.241	0.07	1
2352 Kurchátov	>12.	0.3	1	2477 Biryukov	>24.	0.1	1
2353* Alva	62.6	0.35	2	2478 Tokai	25.885	0.41-0.90	3 B
2354* Lavrov	12.958	0.33-0.35	3	2480 Papanov	3.095	0.07-0.13	3
2356 Hirons	21.782	0.13	2 W	2481 Bürgi	30.086	0.20	2 W
2357 Phereclos	14.394	0.05-0.18	2+	2483 Guinevere	14.733	0.89-1.38	3 p
2358 Bahner	10.848	0.33-0.43	3 p	2484 Parenago	3.43311	0.28-0.34	3
2363 Cebriones	20.05	0.15-0.22	3	2486* Metsähovi	4.4518	0.04-0.13	3 B
2364 Seillier	12.284	0.10-0.26	2+	2490 Bussolini	>24.	0.1	1
2365 Interkosmos	6.1548	0.23-0.25	3	2491 Tvashtri	4.157	0.06-0.24	2+
2368 Beltrivata	5.9	0.84-1.05	2	2494* Inge	6.79	0.17-0.92	3
2371 Dimitrov	6.40	>0.05	1+ 1W	2495 Noviomagum	6.645	1.06	3 p
2372 Proskurin	18.184	0.42-0.60	2 W	2498 Tsesevich	3.059	0.15	2 W
2374 Vladysotskij	5.398	0.48	2 W	2500 Alascattalo	2.751	0.15-0.19	3-
2375 Radek	16.875	0.17-0.20	3	2501 Lohja	3.8084	0.26-0.45	3 p
2378 Pannekoek	11.8806	0.08-0.14	2 3	2504* Gaviola	8.738	0.25-0.31	3-
2379 Heiskanen	3.76	0.17-0.23	3	2507 Bobone	4.9860	0.22	3-
2380 Heilongjiang	11.237	0.22	3	2508 Alupka	17.7	0.35	2-
2381 Landi	3.989	0.75-1.04	3 p	2509 Chukotka	17.7	0.03	2-
2382 Nonie	15.085	0.42-0.49	3 p	2510 Shandong	5.9463	0.44	3 p
2383* Bradley	5.823	0.67	2	2511 Patterson	4.144	0.65-0.8	3 p
2384 Schulhof	3.294	0.43	3 p	2512 Tavastia	7.296	0.26-0.31	3

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2513 Baetslé	6.0792	0.32	3	2633* Bishop	4.73	0.70	3-
2518 Rutllant	3.651	0.12	3	2635 Huggins	9.400	0.10-0.59	3-
2519 Annagerman	12.982	0.14	2 W	2636 Lassell	5.012	0.27	3-
2520 Novorossijsk	9.190	0.26	2 W	2637 Bobrovnikoff	4.7939	0.13	3
2521 Heidi	12.	0.02	1	2639 Planman	89.5	0.40	2+ TO
2522 Triglav	6.774	0.29	3-	2640 Hällström	22.9	0.15	1
2523 Ryba	9.390	0.18	3	2641 Lipschutz	21.62	0.24	3-
2524 Budovicium	10.0819	0.17	3	2642 Vesale	5.566	0.12-0.39	3
2525 O'Steen	3.55	0.19-0.25	2	2645 Daphne Plane	8.360	0.09-0.32	3-
2526 Alisary	4.082	0.18	2 W	2647 Sova	9.366	0.23-0.35	3
2527 Gregory	6.1025	0.23-0.34	3	2648 Owa	3.5641	0.20-0.35	3
2528 Mohler	6.49130		p Ns	2649 Oongaq	7.786	0.28-0.46	3
2529 Rockwell Kent	7.	0.04	1	2650 Elinor	2.762	0.02-0.18	3
2531 Cambridge	12.20	0.20-0.21	2	2651 Karen	6.3227	0.04-0.25	2 A
2532 Sutton	51.362	0.02	1 W	2652 Yabuuti	2.496	0.23	2 W
2534 Houzeau	53.237	0.22	2 W	2653 Principia	5.5228	0.45-0.52	3
2535* Hämeenlinna	3.23106	0.10-0.11	3 B	2656 Evenkia	7.0847	0.59-0.72	3
2536* Kozyrev	7.196	0.26-0.52	3	2658 Gingerich	2.9392	0.39	3 B?
2537 Gilmore	4.23	0.34-0.35	2 W	2659 Millis	6.132	0.53-0.84	3 p
2540 Blok	19.20	0.07	1+ DAW	2660 Wasserman		0.07	N
2541* Edebono	2.9875	0.29	3-	2662 Kandinsky	20.43	0.18	1+ W
2543 Machado	31.72	0.15	2	2665 Schrutka	2.7170	0.25-0.26	3-
2544* Gubarev	4.750	0.38-0.45	3	2666 Gramme	14.12	0.45-0.65	3-
2545 Verbiest	10.	0.06	1+	2668 Tataria	2.78	0.20	2
2546 Libitina	132.71	0.35	2+	2669 Shostakovich	4.914	0.26-0.40	3
2552 Remek			HNW	2670 Chuvashia		0.14	N
2554* Skiff	273.	0.9	2 T?	2672* Pisek	831.	0.90	2+ T?
2556 Louise	3.808	0.35-0.39	3	2674* Pandarus	8.480	0.49-0.65	3
2557 Putnam	35.68	0.23	N	2675 Tolkien	1060.	0.75	2+ T?
2560 Siegma	10.309	0.07-0.10	2 W	2677 Joan	16.97	0.52	2 W
2562* Chaliapin	11.45	0.40	3	2678 Aavasaksa	>24.	0.4	1
2563 Boyarchuk	11.04	0.11	2	2679 Kittisvaara	10.123	0.22	3
2564 Kayala	2.95	0.39	2 W	2682 Soromundi	9.385	0.30	2 W
2565 Grögler	2.150	0.41	2 W	2685* Masursky		0.10	N
2566 Kirghizia	4.451	0.55	3	2687 Tortali	21.75	0.19	2
2567 Elba	9.7785	0.25	3	2689 Bruxelles	8.71	0.05	2
2568 Maksutov	7.5930	0.47-0.49	3	2691 Sersic	3.8811	0.21-0.22	3 B
2569 Madeline		0.1	3	2692 Chkalov	6.11	0.13	2
2571 Geisei	7.823	0.50	3-	2693 Yan'an	3.842	0.12	3-
2572* Annschnell	6.343	0.76-0.82	3	2696 Magion	480.	0.31	2 AT0
2573 Hannu Olavi	4.9355	0.35-0.37	3	2697 Albina	16.587	0.16-0.16	2 W
2574 Ladoga	27.240	0.26	3-	2698 Azerbajdzhan	27.20	0.63-0.66	3-
2575 Bulgaria	9.480	0.43-0.48	3	2699 Kalinin	2.927	0.22-0.24	2+
2576 Yesenin	271.974	0.34	2 W	2700 Baikonur	10.566	0.66	2 W
2577 Litva	2.81258	0.14-0.36	3 M	2702* Batrakov	9.15	0.35-0.63	2+
2578* Saint-Exupéry	8.146	0.22	3	2703 Rodari	5.5	0.20	1
2579 Spartacus	3.63599	0.25-0.39	3 p	2704 Julian Loewe	2.6382	0.15-0.35	3 p
2581 Radegast	8.753	0.79-0.82	3 p	2705 Wu	150.5	1.2	3- T
2582 Harimaya-Bashi	7.238	0.21-0.24	3	2706 Borovský	63.846	0.61	2 W
2584 Turkmenia	6.372	0.22	2 W	2707 Ueferji	5.286	0.16	2 W
2587 Gardner	11.631	0.48	2 W	2708 Burns	5.315	0.52	3
2590 Mourão	15.59	0.46-0.49	3	2709 Sagan	5.2564	0.09-0.63	3 p
2591 Dworetzky	12.77	0.45	2	2710 Veverka	15.732	0.42	2 W
2593 Buryatia	15.085	0.15-0.16	2 W	2713 Luxembourg	3.579	0.47-0.64	3-p
2594 Acamas	25.954	0.50	2 W	2714 Matti	9.	0.25	2
2595 Gudiachvili	4.72	0.5	1	2715 Mielikki	33.62	0.54-0.55	3-
2596 Vainu Bappu	16.450	0.19-0.22	2 W	2717 Tellervo	4.213	0.40	2+
2599 Veselí	18.54	0.20-0.33	2 A	2722 Abalakin	9.23	0.28	2 W
2601 Bologna		0.10	N	2725 David Bender	9.956	0.37	3-p
2602 Moore		0.30	N	2726 Kotelnikov	4.9075	0.21-0.26	2
2604 Marshak	>30.	>0.17	2	2729 Urumqi	3.127	0.19-0.35	3
2606 Odessa	8.2426	0.72-0.80	3 p	2730 Barks	6.084	0.26-0.28	3
2608 Seneca	8.	0.4-0.5	2	2731 Cucula	61.55	0.15-0.40	2+ T?
2609 Kiril-Metodi	4.9433	0.80	3	2733 Hamina	93.23	0.36-0.48	2 T?
2610 Tuva	4.2666	0.57-0.60	3	2734 Hašek	8.208	0.17	2 W
2612 Kathryn	7.71	0.43-0.44	3	2735 Ellen	159.	1.50	3- TO
2615 Saito	14.960	0.38	2 W	2737 Kotka	12.157	0.30	2+
2616 Lesya	9.2168	0.43-0.51	3	2740 Tsoj	22.042	0.89	2 W
2617 Jiangxi	11.7743	0.28-0.57	3 p	2741* Valdivia	4.098	0.25-0.47	3 p
2620 Santana	3.392	0.56	2 W	2744 Birgitta	8.994	0.18-0.4	3
2621 Goto	22.006	0.32	3	2745 San Martín		0.04	N
2622 Bolzano	3.057	0.34	2 W	2747 Český Krumlov	438.710	0.63	2 W
2623 Zech	2.7401	0.22	NB	2750* Loviisa	>200.	0.8	2
2624 Samitchell	12.41	0.51-0.57	3	2751 Campbell	2.747	0.08	3-
2625 Jack London	2.988	0.22	3-	2752 Wu Chien-Shiung	36.343	0.28	2 W
2626 Belnika	7.234	0.11	3-	2754 Efimov	2.44967	0.13-0.16	3 B
2627 Churyumov	7.66	0.61-0.84	3- W	2757 Crisser	8.0882	0.28	2
2629 Rudra	123.171	0.58	2 W	2759* Idomeneus	479.	0.19-0.27	3- B?
2630 Hermod	19.4283		p Ns	2760 Kacha	13.0	0.06	3
2632 Guizhou		0.10	N	2762 Fowler	5.295	0.63-0.64	3-

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2763	Jeans	7.80	0.13-0.18	3	2889*	Brno	9.51	0.51-0.80	2+
2764*	Moeller	5.953	0.26-0.51	3	2890	Vilyujsk	3.45	0.08-0.20	2+
2768	Gorky	4.507	0.51	3	2892	Filipenko	14.00	0.21	3
2769	Mendeleev	8.229	0.48	2	2893*	Peiroos	8.96	0.30-0.35	3
2770	Tsvet	7.82	0.47-0.52	3	2895	Memnon	7.502	0.08-0.33	3-
2771	Polzunov	11.66	0.15	2	2896	Preiss	24.	0.3	N
2772	Dugan	235.	1.14	2+	2897	Ole Römer	2.6009	0.07-0.15	3
2774	Tenojoki	11.2	0.30	2+	2903	Zhuhai	5.263	0.32-0.54	3
2776	Baikal		0.04	N	2904	Millman	12.6603	0.25	3-
2778*	Tangshan	3.461	0.25-0.30	3	2906	Caltech	12.99	0.16-0.27	2
2779	Mary	3.36	0.10	2	2909	Hoshi-no-ie		0.23	N
2781	Kleczek	7.306	0.30	3	2910	Yoshkar-Ola	3.4233	0.36	3
2783	Chernyshevskij	9.455	0.23	3-	2911	Miahelena	4.201	0.56-0.69	3
2784	Domeyko	5.98	0.15	2	2912	Lapalma	5.71076	0.82-0.88	3
2785	Sedov	5.49	0.31-0.45	2-p	2914	Glárnisch	8.35	0.24	3-
2786	Grinevia	2.911	0.33	3	2915	Moskvina	2.177	0.47	2
2791	Paradise	9.81	0.25-0.34	3	2916*	Voronveliya		0.05	N
2792	Ponomarev	137.566	0.44	2	2919	Dali	7.43	0.37-0.45	3
2793	Valdaj	10.594	0.14	2	2920	Automedon	10.212	0.11-0.17	3
2794	Kulik	8.	0.22	2	2921	Sophocles	4.778	0.16-0.23	2
2796	Kron	23.04	0.09	2	2925	Beatty	3.6612	0.29-0.43	3-
2797	Teucer	10.145	0.20-0.25	3	2927	Alamosa	4.3832	0.26	3
2802	Weissell	14.683	0.25-0.37	2	2928	Epstein	8.509	0.37	2
2803	Vilho	12.5	1.00-1.00	2-	2929	Harris	3.13	0.35-0.35	2+
2804	Yrjö	8.12	0.25-0.26	2+	2931	Mayakovsky	37.38	0.14-0.23	3
2809	Vernadskij	7.919	0.27-0.30	2	2933	Amber	13.482	0.29-0.32	2
2811	Střemchoví	3.25	0.28-0.33	3-	2936	Nechvíle	119.642	0.48	2
2812	Scaltriti	7.70	0.25	3	2937*	Gibbs	3.189	0.26-0.39	3
2813	Zappalà	18.231	0.28	3	2939	Coconino	4.68138	0.46	3
2814	Vieira	3.366	0.17-0.18	2	2942	Cordie	80.0	1.1	2
2815	Soma	2.73325	0.07-0.08	3	2943	Heinrich	8.7923	0.17-0.20	3
2816	Pien	80.315	0.50	2	2945	Zanstra	10.05	0.14	1
2824	Franke	3.38	0.06	2	2947	Kippenhahn	10.430	0.42-0.43	3-
2825*	Crosby	2.8135	0.08-0.10	3	2948	Amosov	7.3996	0.86-1.20	2
2826	Ahti	>24.	0.08-0.1	1	2950	Rousseau	18.228	0.30	2
2827	Vellamo	3.7386	0.19	3	2951*	Perepadin	4.781	0.54-0.76	3
2828	Iku-Turso		0.60	N	2952	Lilliputia	3.26	0.12	2
2829	Bobhope	6.0888	0.50-0.55	2	2953	Vysheslavlia	6.2945	0.09-0.23	3
2830	Greenwich	>24.	>0.5	2	2954	Delsemme	4.691	0.21-0.25	3
2832	Lada	8.357	0.47	2+	2956	Yeomans	3.4	0.24-0.28	2
2834	Christy Carol	12.79	0.39-0.50	3-	2957	Tatsuo	6.8191	0.52-0.53	3
2835	Ryoma	18.234	0.17	2	2959*	Scholl	4.359	0.14	2+
2836	Sobolev	4.75488		p	2960	Ohtaki	5.31	0.39-0.55	3-
2839	Annette	10.4595	0.64-0.92	3	2961	Katsurahama	2.936	0.20-0.30	3
2840	Kallavesi		0.27	p	2962	Otto	2.67756	0.14-0.17	3
2841	Puijo	3.545	0.03	1+	2964	Jaschek	12.53	0.38-0.50	3-
2842	Unsold	49.50	0.25	3	2965	Surikov	9.061	0.28-0.29	3
2843	Yeti	156.718	0.45	2	2972	Niilo	8.592	0.12	2
2845	Franklinken	114.	0.8	3-	2973	Paola	>24.	0.2	1
2846	Ylppö	18.894	0.17-0.25	2	2974	Holden	856.	0.70	2+
2847*	Parvati	2.640	0.11	2	2975	Spahr	11.946	0.47	3-
2848	ASP	40.114	0.39	2	2976	Lautaro	17.41	0.12	2-
2850	Mozhaiskij	7.830	0.13	3-	2977*	Chivilikhin	6.2574	1.05	3
2851	Harbin	5.414	0.56-0.79	3-	2978	Roudebush	62.354	0.39	2
2853	Harvill	6.30	0.55-0.65	3-	2979	Murmansk		0.60	W
2854*	Rawson	4.7755	0.61-0.63	3	2983	Poltava	8.865	0.67	3-
2855	Bastian	3.5160	0.10-0.15	3	2985	Shakespeare	6.06	0.39-0.57	3
2856	Röser	13.73	0.49	2+	2986	Mrinalini	15.9	0.2	2
2857	NOT	5.6353	0.25-0.28	3	2988	Korhonen	29.494	0.81-0.97	3
2858	Carlosporfer	3.35	0.15-0.47	2	2989*	Imago	11.457	0.45	3-
2860	Pasacentennium	2.660	0.13-0.17	3	2991	Bilbo	4.0637	0.40	3
2862	Vavilov	>800.	>0.4	2	2992	Vondel	18.849	0.50	2
2865	Laurel	21.5	0.15	2	2993	Wendy	4.456	0.60-0.68	3
2867	Steins	6.049	0.18-0.31	3	2994	Flynn	9.747	0.14	2
2869	Nepryadva		0.04-0.1	N	2995	Taratuta	11.14	0.25-0.25	3-
2870	Haupt	274.	0.54-0.60	3-	2996	Bowman	12.829	0.26-0.45	2
2871	Schober	2.8674	0.18	3-	2998*	Berendeya	8.000	0.71-0.75	3
2872	Gentelec	10.624	0.16	2	3000*	Leonardo	7.524	0.20-0.26	2
2873	Binzel	11.560	0.14	2	3001	Michelangelo	8.338	0.14-0.24	3-
2874	Jim Young	131.3	0.75	2	3002	Delasalle	6.534	0.31-0.47	3
2875	Lagerkvist	5.628	0.62	3	3003	Konček	8.023	0.51	3-
2877	Likhachev	12.582	0.58	2	3005	Pervictoralex	36.4	0.12	2
2879	Shimizu	18.72	0.08	2	3007	Reaves	4.15554	0.38-0.45	3
2880	Nihondaira	17.97	0.22-0.75	2	3008	Nojiri	5.855	0.42	3
2881*	Meiden	3.48011	0.10-0.23	3	3012	Minsk	3.91220	0.06	2
2882	Tedesco	19.805	0.65-0.76	3	3013	Dobrovoleva	8.3025	0.41	3
2883	Barabashov	2.6840	0.04-0.05	2	3014	Huangssushu	15.6970	0.32-0.35	3-
2886	Tinkaping	12.	>0.13	1	3015	Candy	4.625	0.50-1.05	3
2887	Krinov	16.71	0.52-0.61	3	3017	Petrovič	4.08033	0.39-0.62	3
2888	Hodgson	6.905	0.11-0.13	3-	3018	Godiva	10.881	0.39	3

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Planet	Period	Variation	Note	Planet	Period	Variation	Note
3020 Naudts	126.247	0.46	2 W	3134 Kostinsky	14.7	0.33-0.40	2
3022 Dobermann	10.330	0.75-1.24	3	3138 Ciny	113.	0.48-0.56	2+ DT0
3023 Heard	2.713	0.14	2 W	3139 Shantou	8.33	0.34	2
3024 Hainan	11.746	0.10-0.14	2+	3140 Stellafane	19.23	0.17	2+
3025* Higson	13.06	0.11-0.21	3	3141 Buchar	11.41	0.47	2+
3026 Sarastro	15.74	>0.2	1+ DAW	3142 Kilopi	15.128	0.29	2 W
3028 Zhangguoxi	4.826	0.12-0.25	3	3144 Brosche	3.300	0.54-0.60	3
3030 Vehrenberg	4.812	0.60	2 W	3145 Walter Adams	2.7113	0.10-0.2	3 B?
3031 Houston	11.218	0.11-0.17	3	3146 Dato	5.0540	0.23	3
3032 Evans	3.3970	0.10-0.16	2+	3148 Grechko	5.983	0.34-0.35	2 W
3033 Holbaek	233.3	0.15-1.20	3- T-	3151 Talbot	19.49	0.40	2+
3034 Climenhaga	2.73748	0.10	3 B	3152 Jones		0.09	N
3036 Krat	9.61	0.33	3	3155 Lee	8.310	0.22-0.4	3 4
3037 Alku	11.844	0.95	3	3156 Ellington	8.33	0.10-0.10	2
3039 Yangel	12.573	0.16	3-	3158 Anga	>8.		N
3041 Webb		0.05	N	3159 Prokof'ev	3.89	0.42	2-
3042 Zelinsky	5.3248	0.08	2	3160* Angerhofer	44.720	0.32	2 T?
3043 San Diego	105.7	0.60	3- T0	3161 Beadell	36.253	0.43	3-
3044 Saltykov		0.04	N	3162 Nostalga	6.412	0.75-0.80	3
3045 Alois	3.753	0.18	2 W	3163 Randi	59.50	0.54-1.2	2
3048 Guangzhou	3.81	0.10-0.11	2 W	3165 Mikawa	5.08	0.08-0.25	2
3050 Carrera	7.56	0.08	2 W	3166 Klondike	>20.	>0.25	2
3051 Nantong	3.690	0.26	3	3167 Babcock	15.450	0.30	2
3052 Herzen	11.605	0.89	3	3169* Ostro	6.503	0.35-1.13	3 p
3053 Dresden	4.788	0.34	2 W	3170 Dzhanibekov	6.0724	0.64	2+ p
3055 Annapavlova	44.626	0.41	2 W	3174 Alcock	7.05	0.65	3-
3057 Mälaren	4.496	0.29	2 W	3176* Paolicchi	10.215	0.30-0.31	3
3059 Pryor	24.544	0.45-0.60	3	3177 Chilliothe	3.54722	0.25	3
3060 Delcano	2.80265	0.14-0.18	3	3178 Yoshitsune	7.478	0.52-0.53	3
3062 Wren	7.097	0.17-0.25	2+	3179 Beruti	5.383	0.80-0.84	2 W
3063 Makhaon	8.64	0.06-0.15	2	3181 Ahnert		0.08	N
3064 Zimmer	190.495	0.70	2 W	3182 Shimanto	2.9950	0.26-0.30	3
3065 Sarahill	7.4525	0.95	3	3184 Raab	274.944	0.09	1 W
3066 McFadden	13.798	0.13	3	3186 Manuilova	18.147	0.22-0.35	2 W
3067 Akhmatova	3.68629	0.24-0.80	3	3187 Dalian	2.706	0.14	2 W
3068 Khanina	3.61	0.63	3-	3188 Jekabsons	2.363	0.09	2 W
3069 Heyrovský	6.6	0.23	2	3192 A' Hearn	3.160	0.20	3
3070 Aitken	6.396	0.38	2 W	3193* Elliot	3.103	0.18	3-
3073 Kursk	3.4468	0.20-0.21	3 B	3194 Dorsey	17.810	0.44	2 W
3075 Bornmann	2.987	0.16	2 W	3196 Maklaj	21.807	0.45	2 W
3076 Garber	2.7600	0.15-0.18	3	3197 Weissman	6.122	0.22-0.23	3-
3077* Henderson	16.235	0.67	3-	3198 Wallonia	7.54	0.38-0.57	3
3078 Horrocks	13.620	0.25	3-	3199 Nefertiti	3.021	0.1 -0.30	3 p
3080 Moisseiev	6.230	0.40	3	3200* Phaethon	3.604	0.05-0.34	3 p
3082 Dzhailil	17.064	0.25	2 W	3201 Sijthoff	4.607	0.29	2 W
3084 Kondratyuk	5.227	0.20	3	3202 Graff	17.32	0.18	3-
3086 Kalbaugh	5.180	0.47-0.76	3 p	3203 Huth	4.7064	0.13	3-
3088 Jinxiuzhonghua	6.005	0.31	2 W	3204 Lindgren	5.614	0.15	2 W
3089 Oujianquan	14.328	0.45-0.52	3-	3207 Spinrad	2.73	0.18	2 W
3091 van den Heuvel	30.9	0.30	2-	3210 Lupishko	14.241	0.67	2 W
3094 Chukokkala	8.3711	0.33	3	3212 Agricola	9.	0.07	N
3095 Omarkhayyam	11.920	0.12	2 W	3213 Smolensk	3.564	0.16-0.25	2 W
3097 Tacitus	7.417	0.51	2 p W	3218 Delphine	3.468	0.12	2 W
3099* Hergenrother	25.58	0.28-0.29	3-	3219 Komaki	3.8110	0.16	3
3101* Goldberger	5.268	0.63-1.03	3	3220* Murayama	4.8595	0.13-0.16	2
3102 Krok	149.4	0.7 -1.6	3 p T-	3223 Forsius	2.343	0.20-0.28	3
3103 Eger	5.7059	0.49-1.18	3 p	3224* Irkutsk	33.140	0.51-0.51	2 W
3104 Dürer	6.327	0.10-0.28	3	3225 Hoag	2.3717	0.12-0.22	3 p
3105 Stumpff	5.0369	0.32-0.46	3	3227 Hasegawa	6.536	0.34-0.39	3
3106 Morabito	6.26	0.27	N	3228 Pire	11.538	0.50	3
3107* Weaver	22.298	0.66	3	3229 Solnhofen	11.52	0.38-0.71	2
3108 Lyubov	2.658	0.18	2 W	3230 Vampilov	6.141	0.24	2 W
3109 Machin	20.3	0.46	2	3232 Brest	5.288	0.25	2
3111 Misuzu	>40.	0.25	2- W	3233 Krisbarons	>24.	0.15	1
3113* Chizhevskij	18.79	0.70	2	3236 Strand	66.133	0.43-0.44	3
3115 Baily	16.012	0.08-0.2	3-	3237 Victorplatt	10.36	0.24	2
3116 Goodricke	10.	0.09	2	3240 Laocoon	11.312	0.55	2+
3117* Niepce	9.84	0.85	2	3242 Bakhchisaraj	15.	0.07	2-
3118 Claytonsmith	15.794	0.40	2	3247 Di Martino	5.445	0.32-0.51	3 p
3120 Dangrania	20.68	0.39	2	3248 Farinella	6.676	0.20	2 3
3121 Tamines	4.043	0.04-0.19	3	3249 Musashino	4.55272	0.55	3
3122* Florence	2.3581	0.12-0.27	3 p M	3250 Martebo	9.495	0.35-0.52	3
3123 Dunham	172.534	0.63-0.73	2 W	3252 Johnny	3.5467	0.47-0.50	3
3125 Hay	14.31	0.50-0.54	3	3253 Gradie	6.293	0.48-0.54	2 A
3127 Bagration	>12.	>0.03	1	3254* Bus	6.62	0.31-0.34	2
3128 Obruchev	12.642	0.55	2 W	3255 Tholen	2.95	0.11-0.28	3-
3129 Bonestell	2.97794	0.19	3	3257 Hanzlík	8.465	0.20	2 W
3130 Hillary	25.282	0.84	2 W	3258 Somnium	5.3379	0.80	3 p
3131 Mason-Dixon	19.748	0.70	2 W	3259 Brownlee	9.25	0.16-0.32	3-
3133 Sendai	5.776	0.18-0.19	3-	3260 Vizbor	72.12	0.3 -0.64	2+

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Planet	Period	Variation	Note	Planet	Period	Variation	Note
3261 Tvardovskij	S	5.36852	p Ns	3415* Danby	5.675	0.09-0.35	2+
3262* Miune		18.692	3	3416 Dorrit	2.574	0.21-0.27	3
3263 Bligh		3.193	2+	3417 Tamblyn	5.467	0.12	2 W
3266 Bernardus		10.757	3 p	3419 Guth	14.43	0.19-0.29	3
3267 Glo		6.8782	3	3422 Reid	2.91	0.44-0.52	3
3268 De Sanctis		17.	2	3425 Hurukawa	24.84	0.17-0.47	3-
3270 Dudley		4.047	3	3427 Szentmártoni		0.75	W
3272 Tillandz		4.74961	3	3428 Roberts	3.278	0.58	3 p
3274 Mailen		11.369	2 W	3429 Chuvaev	3.365	0.18	2 W
3277 Aaronson		9.80	2+	3431* Nakano	9.2	0.20-0.25	2
3279 Solon		8.0969	3 p	3432 Kobuchizawa		0.04	N
3280 Grétry		10.56	3-	3433 Fehrenbach	3.9160	0.26-0.34	3 B
3281 Maupertuis		6.7295	3 p	3435* Boury	14.42	0.36-0.38	3-
3284 Niebuhr		4.307	3	3436 Ibadinov	>170.	1.	1
3285 Ruth Wolfe		3.919	3 p	3438 Inarradas	24.82	0.38	2
3286 Anatoliya	S	5.81029	p Ns	3439 Lebofsky	5.969	0.20	2 W
3287 Olmstead		4.80	3	3442 Yashin	8.552	0.50	2 W
3288 Seleucus		75.	3 T	3443 Leetsungdao	3.439	0.23-0.47	3
3290* Azabu		7.670	3-	3444 Stepanian	14.47	0.34	3-
3296 Bosque Alegre		7.778	3-	3445 Pinson	7.801	0.30	3
3299* Hall		6.617	2 N	3447 Burckhalter	59.8	0.10-0.39	3 T+
3300 McGlasson		22.91	2	3448 Narbut	570.37	0.39	2 W
3301 Jansje		9.4340	3 p	3451* Mentor	7.702	0.13-0.63	3
3304 Pearce		40.323	2 W	3453 Dostojevsky	3.20	0.09	3-
3305 Ceadams		2.729	3-	3454 Lieske	105.	>0.73	2-
3306 Byron		7.321	3-	3455 Kristensen	8.111	0.37-0.45	3 p
3307 Athabasca		4.902	3-	3458 Boduognat	3.8565	0.38	3
3308 Ferreri		9.229	2 W	3460 Ashkova	4.562	0.31	2 W
3309 Brorfelde		2.5041	3 B	3461 Mandelshtam	2.848	0.20	2 W
3310 Patsy		9.36	3	3466 Ritina	5.253	0.51	2 W
3312 Pedersen		24.438	2 W	3469 Bulgakov	6.48	0.09	1
3314 Beals		5.4616	3	3472 Upgren	9.440	0.46	2 W
3315 Chant		13.749	2 W	3478 Fanale	3.245	0.47-0.60	3 p
3316 Herzberg		9.6	1	3481 Xiangupeak	5.3193	0.30-0.44	3
3317* Paris		7.091	3	3483 Svetlov	6.790	0.21-0.28	3
3318 Blixen		6.456	2+	3484 Neugebauer	12.63	0.10	2 W
3322 Lidiya		710.	1	3485 Barucci	14.65	0.19	1
3324 Avsyuk		8.6140	3	3487 Edgeworth	long	0.1	1+
3332 Raksha		4.8065	3	3491 Fridolin	9.898	0.10	2 W
3333 Schaber		10.971	3-	3492 Petra-Pepi	47.05	0.55-0.55	3-p
3335 Quanzhou		4.968	2	3493 Stepanov	6.112	0.77-0.95	3
3339 Treshnikov		18.2947	3-	3494* Purple Mountain	5.857	0.32-0.40	3-p A
3343 Nedzel		5.4620	3	3496 Arioso	2.862	0.30	3
3345 Tarkovskij		187.	3-	3497 Innanen	7.181	0.39-0.60	3
3350 Scobee		>0.17	3	3500 Kobayashi	5.606	0.17-0.60	2 W
3352 McAuliffe		2.2060	3 B?	3506 French	16.756	0.69	2 W
3353 Jarvis		202.0	2+	3507 Vilas	3.959	0.29	3
3354* McNair		7.56	2+	3509 Sanshui	13.68	0.07	2
3356 Resnik		>32.	2	3511 Tsvetaeva	6.2279	0.80-0.92	3
3361 Orpheus		3.532	3-	3512 Eriepa	6.784	0.25-0.35	3
3362 Khufu		>0.14	3	3513 Quqinyue	9.882	0.84	2 W
3363 Bowen		3.0219	3	3514 Hooke	4.307	0.17-0.19	3
3364 Zdenka		7.584	3	3518 Florena	3.2269	0.17	3-
3366 Gödel		4.684	2+	3519 Ambiorix	5.78	0.19	2 W
3367 Alex		9.6	1	3523 Arina	2.67	0.07	2
3368 Duncombe		0.1	3	3524 Schulz	13.39	0.37-0.58	2 W
3370 Kohsai		0.73	3	3525 Paul	12.	0.1	2-
3375 Amy	S	3.25563	p Ns	3527 McCord	321.	0.44	2 TO
3376 Armandhammer		7.916	3-	3528 Counselman	10.765	0.59	2 W
3377 Lodewijk		6.760	2 W	3532* Tracie		0.10	N
3378* Susanvictoria		2.5621	3 NB	3533 Toyota	2.9807	0.16-0.20	3
3382 Cassidy		4.258	3-	3534 Sax	6.221	0.27	3
3383 Koyama		111.845	2 W	3536 Schleicher	5.79	0.94	3
3385 Bronnina		2.95893	3-	3537 Jürgen	>14.	0.3	1
3387 Greenberg		2.6941	3	3539 Weimar	7.29	0.27	2+
3388 Tsanghinchi		3.257	3	3540 Protesilaos	8.945	0.13-0.13	2
3391 Sinon		8.135	3	3541 Graham	3.5277	0.12-0.13	3
3395 Jitka		18.293	3	3544 Borodino	5.442	0.60-0.65	3 p
3397 Leyla		3.098	3	3546 Atanasoff	3.754	0.41	2 W
3398 Stättmayer		8.280	2+	3548 Eurybates	8.711	0.19-0.20	3-p
3401 Vanphilos		4.2261	3	3549 Hapke	7.071	0.24-0.31	2 W
3402 Wisdom		4.9951	3	3550 Link	12.371	0.21	2 W
3403 Tammy		11.85	1	3551 Verenia	4.930	0.11-0.15	2
3406 Omsk		7.275	3	3552 Don Quixote	7.7	0.57	2 A
3407 Jimmysimms		6.819	3 p	3553 Mera	3.1944	0.08	2
3408 Shalamov		10.495	1+	3554 Amun	2.53001	0.17-0.23	3
3409 Abramov		7.791	3	3555 Miyasaka	54.208	0.34	2 W
3410* Vereshchagin		2.6778	3	3557 Sokolsky	6.725	0.19	3
3411 Debetencourt		9.93	3-	3558 Shishkin	6.875	0.95	3
3413 Andriana		11.2	2- W	3559 Violaumayer	3.79	0.19	1+ W

MINOR PLANET LIGHTCURVE PARAMETERS

Planet	Period	Variation	Note	Planet	Period	Variation	Note		
3560	Chenqian	18.79	0.26	3-	3709*	Polypoites	10.039	0.12-0.18	3
3561*	Devine	9.61	0.08-0.23	2+ p	3712	Kraft	9.341	0.27-1.20	3
3562	Ignatius	2.732	0.12-0.21	3-	3713	Pieters	6.9	0.10	2
3563	Canterbury	15.553	0.61	2	3714*	Kenrussell	5.2518	0.28	3
3564	Talhythibus	40.59	0.31-0.38	3-	3720	Hokkaido	4.79	0.20	2+
3567	Alvema	8.13	0.17-0.33	2+	3721	Widorn	84.960	0.19	2
3569*	Kumon		0.05		3722	Urata	5.567	0.04-0.58	3
3570	Wuyeesun	15.459	0.45	2	3723	Voznesenskij	7.964	0.23	2
3571	MilanŠtefánik	421.1	0.65	2+	3724	Annenskij	3.974	0.28-0.30	3
3573	Holmberg	6.5431	0.91-1.03	3	3725	Valsecchi	3.57	0.52	2
3575	Anyuta	6.321	0.38	3	3726	Johnadams	3.509	0.11	2
3576	Galina	3.3423	0.04-0.05	2	3727	Maxhell	51.469	0.28	2
3577	Putilin	18.270	0.11-0.27	2	3728	IRAS	8.323	0.21	3
3578	Carestia	9.93	0.13	2	3729	Yangzhou	29.158	0.41-0.41	2
3580	Avery	24.226	0.17-0.33	2	3730	Hurban	4.649	0.22	3
3581	Alvarez	33.42	0.06	2	3731	Hancock	6.712	0.04	1
3585	Goshirakawa	2.97	0.04	2	3733	Yoshitomo		0.06	
3586	Vasnetsov	4.06	0.49	3	3735	Třeboň	8.471	0.55	2
3590	Holst	12.7635	0.20	2	3737*	Beckman	3.124	0.07-0.27	3
3596	Meriones	12.96	0.15	2	3738	Ots	4.17025	0.74	3
3597	Kakkuri	27.0	0.74-0.75	2	3743	Pauljaniczek	4.558	0.27	3
3599	Basov	2.16	0.10	2	3744*	Horn-d'Arturo	6.15	0.08-0.45	2+
3600*	Archimedes	5.439	0.35	3	3746	Heyuan	16.3010		p
3602	Lazzaro	4.939	0.14	2	3747*	Belinskij	14.6	0.08	2
3603	Gajdušek	4.770	0.29	2	3748	Tatum	58.21	0.54	2+
3605	Davy	2.72	0.20-0.25	3	3749*	Balam	2.80483	0.10-0.19	3
3606	Pohjola	2.92	0.11	2	3751	Kiang	8.2421	0.44-0.55	3-
3608	Kataev	5.022	0.35-0.38	2	3752	Camillo	37.846	1.1	3
3609	Liloketai	15.636	0.17	2	3753	Cruithne	27.30990	0.40-0.95	3-
3614	Tumilty	26.8	0.10	2-	3754	Kathleen	11.18	0.13-0.20	3-
3615	Safronov	>16.	>0.2	2-	3755	Lecointe	27.920	0.30	3
3617	Eicher	5.81	0.21	2	3757	Anagolay	9.012	0.14-0.20	2
3618	Kuprin	9.24	0.56	2+	3758	Karttunen	12.50101		p
3621	Curtis	39.001	0.44	2	3759*	Piironen	409.848	0.09-0.56	2
3623	Chaplin	8.361	0.80-0.97	3	3760	Poutanen	2.956	0.19-0.21	3
3625	Fracastoro	2.712	0.25	3	3761	Romanskaya	15.32	0.34	2
3628	Božněmcová	3.33541	0.09	3	3763	Qianxuesen	3.884	0.31	3
3631	Sigyn	41.	0.1	1	3767	DiMaggio	6.581	0.40-0.45	3-
3632	Grachevka	3.9536	0.30-0.37	3	3771	Alexejtolstoj	11.094	0.08	1
3633	Mira	19.170	0.62	2	3772	Piaf	5.376	0.45-0.53	3
3635	Kreutz	280.	0.20-0.25	2+	3773	Smithsonian	6.9804	0.33-1.04	3
3637*	O'Meara	7.710	0.13-0.25	2+	3774	Megumi		0.11	
3638	Davis	8.9	0.40	2	3776*	Vartiuvuori	7.7	0.09-0.12	2-
3639	Weidenschilling	8.515	0.20	2	3777*	McCauley		0.10	
3640	Gostin	3.2641	0.27-0.47	3	3779*	Kieffer	2.848	0.20-0.24	3
3642	Frieden	14.491	0.13	3	3780	Maury	3.46	0.16	2-
3645	Fabini	4.633	0.08	2	3782	Celle	3.84	0.11-0.17	3
3647	Dermott	21.779	0.84	3	3783	Morris	6.816	0.15	2
3651	Friedman	2.81	0.12	2	3784	Chopin	12.72	0.06	1+
3655	Eupraksia	75.668	0.23	2	3785	Kitami	3.7992	0.29-0.30	3
3656	Hemingway	5.626	0.87	2	3786	Yamada	4.034	0.40-0.65	3
3657	Ermolova	2.6064	0.16-0.26	3	3787	Aivazovskij	2.97	0.18-0.21	3
3665	Fitzgerald	2.4141	0.08-0.12	3	3789	Zhongguo	3.840	0.24	2
3668	Il'fpetrov	15.268	0.82	2	3790	Raywilson	4.654	0.30	2
3671	Dionysus	2.7053	0.13-0.26	3	3791	Marci	10.584	0.18	2
3672	Stevedberg	2.78	0.22-0.28	3-	3792*	Preston	2.9274	0.18-0.30	3
3673	Levy	2.6879	0.13	3	3793*	Leonteus	5.682	0.05-0.24	3-
3674	Erbisbühl	11.28	0.40	3	3794	Sthenelos	12.877	0.27	3
3675	Kemstach	14.1	0.12	2	3795	Nigel	6.83	0.27	3-
3676	Hahn	7.685	0.25	2	3800	Karayusuf	2.2319	0.15-0.19	3
3678	Mongmanwai	4.184	0.62-0.73	3	3801	Thrasymedes	20.270	0.08-1.07	2
3679*	Condruces	172.	0.25-1.30	2+	3805	Goldreich	4.841	0.75	2
3680	Sasha	5.8146	0.30-0.32	3	3807	Pagels	3.3	0.13	2
3682	Welther	3.5973	0.21-0.37	3	3809*	Amici	5.71	0.39	2+
3683	Baumann	15.758	0.21	2	3810	Aoraki	29.807	0.05-0.06	1
3684	Berry	11.9	0.72	2	3811	Karma	13.23	0.20-0.33	2+
3685	Derdenye	>12.	0.05	1	3812	Lidaksun	8.014	0.23	3-
3686	Antoku	6.730	0.19-0.37	2	3813	Fortov	12.3	0.53-0.76	3-
3687*	Dzus	58.12	0.15	3-	3815*	König	6.239	0.14	2
3691	Bede	226.8	0.5	2	3819	Robinson		0.31	
3692	Rickman	7.793	0.38	2	3820	Sauval	3.270	0.24	2
3693	Barringer	6.626	0.54	3	3821	Sonet	9.559	0.29	2
3694*	Sharon	11.478	0.44-0.58	3	3822	Segovia	11.03204		p
3695	Fiala	>4.	>0.05	1	3823	Yorii	6.669	0.26	3
3698	Manning	3.0624	0.44	3	3824*	Brendalee	4.520	0.18-0.44	3
3700	Geowilliams	14.387	0.40-0.42	3	3825	Nürnberg	4.0301	0.71-0.72	3
3703	Volkonskaya	3.235	0.22	3	3829	Gunma	4.728	0.22-0.29	3
3704	Gaoshiqi	9.7725	0.20-0.21	2+	3830	Trelleborg		0.05	
3706*	Sinnott	4.0380	0.48-0.67	3	3831	Pettengill	4.78	0.58	3-
3708	1974 FV ₁	6.553	0.20-0.31	3	3833	Calingasta	199.	0.70-1.20	3

MINOR PLANET LIGHTCURVE PARAMETERS

Planet	Period	Variation	Note	Planet	Period	Variation	Note
3836 Lem			HNW	3982 Kastel'	8.488	0.27-0.28	NB?
3838 Epona	2.3812	0.05-0.38	N	3983* Sakiko	10.526	0.55-0.69	3
3839 Bogaevsikij	129.936	0.44	2 W	3985 Raybatson	4.298	0.10	2
3841 Dicicco	3.5950	0.18-0.19	3 B	3986 Rozhkovskij	3.548	0.25-0.35	3
3842 Harlansmith	2.7938	0.40	3-	3987 Wujek	8.037	0.37	2+
3843 OISCA	19.089	0.2 -0.32	3-	3988 Huma	10.4	0.24	2+
3844* Lujixi	13.33	0.34	2+	3990 Heimdal	>20.	0.1	N
3845 Neyachenko	12.140	0.49	2 W	3991 Basilevsky	5.440	0.09	2 W
3849 Incidentia	2.778	0.14	2 W	3992 Wagner	20.628	0.29	2-
3850 Peltier	2.4289	0.09-0.10	3	3996* Fugaku	7.193	0.57-0.86	3
3851 Alhambra	53.	0.35	2	3998 Tezuka	3.0789	0.43-0.46	3
3854 George	3.3398	0.12-0.14	3 B?	3999 Aristarchus	12.58	0.30	2+
3855 Pasasympsonia	6.5131	0.18	2 A	4000 Hipparchus	3.418	0.11	2
3860 Plovdiv	6.114	0.34-0.37	2+	4002 Shinagawa	175.0	0.95	3-
3861 Lorenz	11.91	0.26	3-	4003 Schumann	5.7502	0.20-0.23	3-
3865* Lindbloom	5.42	0.03	2-	4005 Dyagilev	6.400	0.23-0.46	3-
3866 Langley	9.500	0.53	2 W	4006 Sandler	3.40	0.16	3
3867 Shiretoko	28.035	0.22	2	4007 Euryalos	6.391	0.07	2
3868 Mendoza	2.77090	0.07-0.20	3 B	4008* Corbin	6.203	0.12-0.23	3
3870 Mayre	3.9915	0.44-0.45	3	4009 Drobyshevskij	3.875	0.31-0.38	2 W
3872 Akirafujii	10.635	0.23-0.35	2 A	4010 Nikol'skij	3.877	0.40-0.44	2 W
3873 Roddy	2.4782	0.05-0.11	3 B	4011 Bakharev	4.206	0.06	1 W
3879 Machar	4.131	0.19-0.23	3	4012 Geballe	5.88597	0.90	3
3880 Kaiserman	5.270	0.08-0.23	3 B?	4013 Ogiria	3.490	0.26	2 W
3883 Verbano	50.8	0.80	2+	4014 Heizman	9.36	0.20	2- W
3885 Bogorodskij	5.803	0.21-0.32	2	4015 Wilson-Harrington	3.5736	0.10-0.12	2 p A
3888 Hoyt	84.2	0.70-0.70	3 TO	4022 Nonna	2.5877	0.04-0.10	3
3892 Dezső	3.62810	0.45-0.47	3	4023 Jarník	4.776	0.27	2 W
3893 DeLaeter	13.83	0.13-0.20	2	4024 Ronan	356.	1.10-1.10	3- T-
3894 Williamcooke	3.10	0.09	2	4029 Bridges	3.5746	0.18-0.29	3 B
3895 Earhart	3.5645	0.28-0.48	3	4031 Mueller	2.9420	0.14-0.19	3
3896 Pordenone	4.009	0.24-0.37	3 p	4035 1986 WD	13.467	0.17-0.21	3
3899 Wichterle	5.8572	0.60	3	4037 Ikeya	S 4.05754		p Ns
3900 Knežević	5.324	0.62	3-	4039* Sousek	2.77203	0.24	3 B?
3903 Kliment Ohridski	28.09	0.19	2- HW	4041 Miyamotoyohko	7.694	0.13	2-
3904 Honda	>24.	>0.1	1	4045 Lowengrub	9.764	0.40	3
3905* Doppler	50.8	0.65-1.22	3 B	4046 Swain	7.185	0.28-0.32	2 W
3906 Chao	11.892	0.13	3	4049 Noragal'	9.2	0.34-0.35	2+ W
3907 Kilmartin	3.841	0.30	3	4055* Magellan	7.475	0.38-0.76	3
3908 Nyx	4.42601	0.25-0.46	3 p	4057* Demophon	29.82	0.21-0.23	3-
3909 Gladys	6.83	0.04-0.15	1	4058* Cecilgreen	7.34	0.15-0.25	2
3910 Liszt	4.73	0.60	3 p	4060 Deipylos	9.298	0.07-0.13	3-
3911 Otomo	10.6	0.05	1+	4063 Euforbo	8.846	0.15-0.24	3
3913 Chemin	3.4077	0.17-0.53	3	4067 Mikhel'son	2.2461	0.11	3
3914 Kotogahama	16.716	0.28	2 W	4068 Menestheus	14.40	0.18-0.40	3-
3915 Fukushima	9.418	0.50-0.79	3	4070 Rozov	5.8956	0.52	3
3918 Brel	3.0980	0.22-0.28	3 p	4072* Yayoi	4.006	0.46	3
3920 Aubignan	4.4762	0.97-1.00	3	4077 Asuka	7.919	0.40	3- p
3922 Heather	5.045	0.60	2 W	4078 Polakis	4.831	0.32-0.38	3
3923 Radzievskij	39.93	0.61-0.95	2	4080 Galinskij	7.3600	0.91-1.01	3 p
3924 Birch	18.74	0.28-0.67	2	4082 Swann	4.03632	0.35-0.67	3
3925 Tret'yakov	30.962	0.24	2+	4085 Weir	14.602	0.18-0.24	2
3928 Randa	29.9	0.06-0.12	2	4086 Podalirius	10.43	0.08-0.16	2+
3932* Edshay	3.444	0.20-0.23	2+	4087 Pärt	16.47	0.59	2
3935 Toatnmongakkai	106.3	0.58	2	4089 Galbraith	4.9123	0.68-0.96	3 p
3936 Elst	6.6322	0.13	3	4090 Řířehvězd	4.55	0.32-0.41	2 W
3940 Larion	84.	0.30-0.31	2 TO	4091 Lowe	16.59	0.10-0.11	2
3944 Halliday	5.565	0.32	2 W	4100 Sumiko	6.2108	0.31	3
3945 Gerasimenko	272.332	0.61-0.68	2 W	4103* Chahine		0.35	N
3946 Shor	5.590	0.35-0.43	2 W	4104 Alu	>6.		N
3947 Swedenborg	38.557	0.29	2 W	4106 Nada	5.832	0.48-0.71	3
3948 Bohr	24.884	0.2 -0.90	3	4107* Rufino	15.31	0.07-0.15	2
3951 Zichichi	3.39423	0.25-0.35	3 B	4112* Hrabal	9.298	0.25	2
3952 Russellmark	5.090	0.90	2 W	4113 Rascana	4.416	0.46	2 W
3953 Perth	5.083	0.28-1.09	3	4116 Elachi	38.143	0.70-1.04	3
3956* Caspar	2.77120	0.13-0.21	3	4122 Ferrari	8.45	0.18	2+
3958 Komendantov	11.2947	0.20-0.27	3	4125 Lew Allen	4.629	0.20-0.45	3
3960 Chaliubieju	3.986	0.27-0.30	3	4132 Bartók	3.297	0.32-0.44	3
3962 Valyaev	16.440	0.44	2 W	4134 Schütz	5.207	0.58	2 W
3965 Konopleva	6.8709	0.17-0.23	2+	4135 Svetlanov	10.559	0.15	2
3968 Koptelov	20.88	0.03	1	4138 Kalchas	29.2	0.10-0.40	3
3970 Herran	8.09	0.36-0.36	2+	4142 Dersu-Uzala	140.	0.22-0.60	2 T?
3971 Voronikhin	5.552	0.22-0.34	3	4145 Maximova	19.872	0.90-1.00	3
3973 Ogilvie	21.211	0.29	2 W	4147 Lennon	137.	0.25-0.6	1
3974 Verveer	8.51	0.22	3	4149 Harrison	3.7490	0.37-0.42	3
3975 Verdi	8.158	0.71	2 W	4150 Starr	4.5179	0.08-0.20	3
3976 Lise	15.6912	0.16-0.23	3	4151 Alanhale	11.918	0.07	1 W
3977 Maxine	3.081	0.25	2+	4154 Rumsey	3.2569	0.38	3
3979 Brorsen	5.482	0.08	2 W	4155 Watanabe	4.4972	0.20	3
3981 Stodola	102.657	0.08	1 W	4156 Okadanoboru	12.015	0.47	2 W

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Planet	Period	Variation	Note	Planet	Period	Variation	Note
4158 Santini	144.428	0.37	2 W	4332 Milton	3.295	0.16-0.30	3-
4159 Freeman	4.4021	0.23-0.40	3	4334 Foo	7.42	0.17	2- W
4162 SAF	7.5	0.16	2-	4335 Verona	3.5943	0.30-0.40	3
4164* Shilov	18.5	0.29	1	4336* Jasiewicz		0.04	N
4167 Riemann	4.060	0.17	3	4338 Velez	3.166	0.14-0.15	2 W
4169 Celsius	10.887	0.44	2+	4339 Almamater	30.84	0.17	2
4170 Semmelweis	5.31	0.36-0.50	3-	4340 Dence	7.546	0.07-0.58	3-
4171 Carrasco	33.53	0.17-0.22	2 A	4341 Poseidon	6.262	0.07-0.08	2
4172 Rochefort	3.68	0.40	3-	4343 Tetsuya	7.392	0.20	3-
4174 Pikulia	19.59	0.12	2 W	4344 Buxtehude	18.087	0.68	2 W
4175 Billbaum	2.73	0.08-0.15	3-	4347 Reger	15.960	0.41	2 W
4176 Sudek	8.164	0.32	2 W	4348* Poulydamas	9.908	0.19-0.34	3
4179 Toutatis	176.	0.50-1.46	3 T	4349 Tibúrcio	16.284	0.40	3
4182 Mount Locke	3.0179	0.15-0.17	3	4350 Shibecha	2.890	0.11-0.16	2+
4183 Cuno	3.5595	0.47-0.84	3	4351 Nobuhisa	2.919	0.27	2 W
4185 Phystech	4.66904	0.41-0.53	3	4352 Kyoto	21.9352	0.74	3-
4188 Kitezh	2.58	0.19-0.27	3-	4353 Onizaki	4.429	0.36	2 W
4190 Kvasnica	13.42	0.09	2-	4355 Memphis	7.150	0.61	2
4191 Assesse	5.6489	0.50-0.70	2+	4357 Korinthos	6.619	0.12	2+
4192 Breysacher	7.394	0.48	2 W	4358 Lynn	3.8377	0.60	3
4196 Shuya	>20.	>0.07	1	4359 Berlage	7.413	0.90	3
4197 Morpheus	3.5380	0.28-0.49	3	4360 Xuyu	5.939	0.19	2 W
4201 Orosz	17.3849	0.70-0.88	3	4362 Carlisle		0.10	N
4202* Minitti	5.005	0.50	3-	4363 Sergej	13.04	0.50	3-
4204 Barsig	2.2663	0.13	3	4364 Shkodrov	17.3233	0.35-0.42	3-
4205 David Hughes	>24.	0.25	2-	4365 Ivanova	9.84	0.65-0.89	2+
4207 Chernova	10.288	0.08-0.10	2	4368 Pillmore	3.6054	0.29	3 W
4209 Briggs	12.22	0.44-0.45	3- p	4369 Seifert	30.573	0.31	3
4212 Sansyu-Asuke	15.94	0.09	2	4372 Quincy	2.763	0.15	2 W
4214 Verallynn	7.60	0.35	2-	4374 Tadamori	4.50474	0.77-0.94	3
4215 Kamo	12.6	0.11-0.21	2	4375 Kiyomori	6.4709	0.15-0.16	3
4217 Engelhardt	3.0661	0.16-0.18	3	4377 Koremori	11.107	0.32	3-
4219 Nakamura	115.492	0.20	2 W	4378 Voigt	10.796	0.50	2
4222 Nancita	3.8732	0.97	3	4383 Suruga	3.4069	0.14-0.14	3 B
4223 Shikoku	9.137	0.17-0.19	3	4385 Elsässer	5.57	0.52-0.60	3- W
4224 Susa	6.178	0.21-0.27	3-	4388 Jürgenstock	2.80956	0.10-0.11	3
4226 Damiaan	24.	0.05	1	4391 Balodis	3.448	0.29	2
4228* Nemiro	2.772	0.06	2	4399 Ashizuri	2.829	0.32	3 p
4230 van den Bergh	87.918	1.09	2 W	4401 Aditi	6.670	0.29-0.64	3
4231 Fireman	28.0	0.10	2	4404* Enirac	2.9983	0.24-0.27	3
4232 Aparicio	54.4	0.60-0.83	3- T0	4405 Otava	2.879	0.18	2 W
4233* Pal'chikov	7.086	0.63	N	4410 Kamuimintara	4.9349	0.13	2-
4234 Evtushenko	3.45	0.17	2 W	4411 Kochibunkyo	2.6958	0.20	3
4242 Brecher	7.68	0.83	2+ W	4417 Lecar	3.1758	0.20-0.38	3
4246 Telemann	8.960	0.11	2	4418 Fredfranklin	4.8190	0.24-0.30	2+
4251 Kavasch	3.166	0.31-0.54	2 W	4419 Allancook	5.2750	0.41-0.66	3-
4252 Godwin	11.623	0.41-0.42	3-	4422 Jarre	5.428	0.12	2
4254 Kamél	2.739	0.17-0.19	3	4423 Golden	10.51	0.17	2
4255 Spacewatch	>20.	>0.12	2	4424 Arkhipova	14.673	0.45	2 W
4257 Ubasti		0.36	N	4425 Bilk	5.251	0.42	3-
4263 Abashiri	4.8820	0.11-0.42	3	4431 Holeungholee	9.81	0.39-0.52	2+
4264 Karljosephine	30.96	0.09-0.45	2	4432 McGraw-Hill		0.06	
4265 Kani	5.7279	0.62-0.75	3 p	4433 Goldstone	10.115	0.20	2
4266 Waltari	11.200	0.45	3	4435 Holt	2.8670	0.15-0.21	3 B
4271 Novosibirsk	8.850	0.52	3	4436 Ortizmoreno	8.24	0.09-0.40	2 A
4272 Entsuji	2.8087	0.06	NB	4437 Yaroshenko	30.	0.3	1+
4274 Karamanov	4.196	0.36	3	4438* Sykes		0.10	N
4282 Endate	>34.	>0.5	HNW	4440 Tchantchès	2.7883	0.21-0.34	3 B?
4283 Stöffler	136.	0.1-0.65	2- T0	4441 Toshie	8.178	0.65	2 W
4284 Kaho	4.0584	0.48-0.63	3 p	4445 Jimstratton	3.74	0.13	2 W
4285 Hulkower	6.1501	0.53-0.68	3	4446 Carolyn	40.92	0.22	3
4287 Trisov	5.494	0.70	3	4448 Phildavis	14.914	0.73	3
4288 Tokyotech	3.181	0.19	3	4450 Pan	56.48	0.64	3 T
4289 Biwako	4.4185	0.11	3	4451 Grieve	6.864	0.56-0.80	3
4290 Heisei	10.63	0.30	3-	4452 Ullacharles	9.3085	0.38-0.43	3
4293* Masumi	36.	0.35	2-	4455 Ruriko	4.23	0.41	2
4294 Horatius	12.499	0.10	2	4456 Mawson		0.20	N
4296* van Woerkom	2.80868	0.20	3 B	4457 van Gogh	7.6056	0.12	2-
4297* Eichhorn	4.105	0.16	2+	4459 Nusamaibashi	287.484	0.66	2 W
4298 Jorgenúnez	30.474	0.60	2 W	4461 Sayama	40.8	0.60-0.71	3-
4299 WIYN	>26.	0.06	2	4464 Vulcano	3.2038	0.08-0.22	3
4300 Marg Edmondson	9.328	0.12	2	4467 Kaidanovskij	>12.	0.03	1 p
4302 Markeev	5.134	0.31	3	4471 Graculus	11.85	0.49	2 W
4307 Cherepashchuk	2.724	0.24	2 W	4472* Navashin	>20.	>0.1	1+
4308 Magarach	33.8	0.07	1	4475 Voitkevich	3.89	0.12-0.14	2 W
4317* Garibaldi	8.917	0.10-0.17	3 p	4477 Kelley	4.3773	0.21	3
4318 Baťa	10.571	0.62	2 W	4479 Charleparkier	2.890	0.22	2 W
4323 Hortulus	4.7354	0.23-0.43	3-	4482 Frerebasile		0.10	N
4324 Bickel	26.592	0.63-0.72	3	4483 Petófi	4.33309	0.85-1.03	3 p
4327 Ries	126.562	0.85	2 W	4486 Mithra	67.5	1.	2 p RT0

MINOR PLANET LIGHTCURVE PARAMETERS

Planet	Period	Variation	Note	Planet	Period	Variation	Note				
4489	1988 AK	12.582	0.20-0.26	3	4660	Nereus	15.1	0.6 -0.8	2	p	T0
4490	Bamberg	5.815	0.7 -1.16	3	4663	Falta	9.545	0.15	2		W
4492*	Debussy	26.606	0.44-1.28	3	4664	Hanner	3.011	0.30-0.31	2		W
4493	Naitomitsu	5.04	0.07	1+	4666	Dietz	2.95242	0.21-0.26	3		B?
4497	Taguchi	3.563	0.11-0.21	3	4668*	Rayjay	6.506	0.63	3		
4498	Shinkoyama	5.2068	0.44-0.75	3	4670	Yoshinogawa	17.130	0.09	1		W
4501	Eurypylos	6.054	0.24	2+	4673	Bortle	2.63989	0.15-0.16	3		W
4502	Elizabethann	4.7630	0.30-0.56	3	4674	Pauling	2.5306	0.05-0.14	3	p	B
4503	Cleobulus	3.13	0.22	2	4678	Ninian	56.72	0.93-1.04	3-		T?
4505	Okamura	6.6687	0.50	3	4683	Veratar	29.391	0.40	2		W
4506	Hendrie	5.511	0.67-0.76	2	4684	Bendjoya	12.169	0.35	3-		
4507	Petercollins	6.58	0.22-0.40	3	4689	Donn	122.5	0.64	2+		T0
4509	Gorbatskij	6.006	0.81-0.81	3	4690	Strasbourg	69.2	0.75-0.80	2		T
4511	Rembrandt	3.8369	0.49	3-	4691*	Toyen	3.5025	0.23	3-		
4512*	Sinuhe	18.00	0.23-0.80	2	4692	SIMBAD	2.736	0.14-0.15	2+		A
4513	Louvre	2.937	0.24	2	4695*	Mediolanum	5.526	0.15	2+		
4514	Vilen	2.89224	0.09	2	4703	Kagoshima	4.092	0.03-0.08	2		
4517	Ralpharvey	3.600	0.21-0.39	3	4706	Dennisreuter	2.578	0.07	1		W
4519	Voronezh	7.442	0.56	2	4707*	Khryses	6.862	0.38-0.47	3		
4520	Dovzhenko	4.7340	0.83-1.00	3	4708	Polydoros	7.517	0.09-0.17	3		
4522	Britastra	2.77	0.15	1	4709	Ennomos	12.275	0.40-0.47	3		
4524	Barklajdetolli	1069.	1.05-1.26	2	4711	Kathy	4.164	0.52	3		
4527	Schoenberg	2.69	0.31	3-	4712	Iwaizumi	6.2486	0.22	3		
4528	Berg	3.5163	0.16-0.25	2	4713	Steel	5.199	0.28-0.44	3		
4529	Webern	3.469	0.49	2	4714	Toyohiro	14.706	0.07	2		W
4531	Asaro	4.144	0.18-0.29	3-	4715	1989 TS ₁	8.129	0.46-0.54	3		
4533	Orth	>24.	0.1 -0.68	2	4716	Urey	5.9260	0.59-0.68	3		
4534	Rimskij-Korsakov	11.646	0.62	2	4718*	Araki	46.35	0.16	2		T?B?
4535	Adamcarolla	10.211	0.35-0.83	2	4719	Burnaby	13.01	0.05-0.07	2		
4536	Drewpinsky		0.15	2	4722	Agelaos	18.438	0.15-0.23	3		
4541	Mizuno	2.82784	0.08	2	4724	Brocken	5.912	0.75	3		
4542	Mossotti	2.934	0.10-0.24	3	4727	Ravel	4.44	0.32	3		
4543	Phoinix	38.866	>0.34	2+	4729	Mikhailmil'	17.74	0.36	2-		
4544	Xanthus	37.65	0.27	2	4730	Xingmingzhou	3.396	0.23	2		W
4547	Massachusetts	7.703	0.27-0.29	3	4733	ORO	5.880	0.46-0.47	2		W
4553	Doncampbell	13.021	0.29	2	4734	Rameau	4.354	0.58	2		W
4554	Fanyanka	4.779	0.35-0.40	3	4736	Johnwood	6.210	0.83-0.93	3	p	
4555	Joséapárez	2.8847	0.21-0.26	3	4739	Tomahrens	5.104	0.20-0.26	2		W
4558	Janesick	100.	>0.11	1	4741	Leskov	>30.	0.1	2-		W
4562	Poleungkuk	9.475	0.73	2	4742*	Caliumi	5.479	0.80-1.09	3		
4563	Kahnia	12.416	0.45-0.47	3	4744	Rovereto	4.0094	0.30-0.44	3		
4565	Grossman	4.7429	0.60	3-	4746	Doi	20.903	0.24-0.25	2		W
4569	Baerbel	2.737	0.24	3-	4749	Ledzeppelin	8.1938	0.21	3-		
4570	Runcorn	>20.	>0.12	2-	4750*	Mukai	38.3	0.40	2		T?
4571	Grumiaux	6.402	0.14	2	4751	Alicemanning	15.894	0.49-0.56	2		W
4572	Brage	2.99105	0.31	3-	4754	Panthoos	27.68	0.09	2+		
4576*	Yanotoyohiko	9.40	0.27	3	4755	Nicky	5.057	0.40	3		
4577	Chikako	5.83	0.55-0.57	3	4756	Asaramas	16.536	0.16	2		W
4580	Child	4.1814	0.30-0.50	3	4757	Liselotte	6.619	0.23-0.26	2		W
4585	Ainonai	38.31	0.30	3-	4758	Hermitage	10.1505	0.23	3-		
4587	Rees	7.879	0.55-0.78	3	4760	Jia-xiang	14.9601	0.55-0.63	3		
4589	McDowell	3.402	0.16	2	4764	Joneberhart	5.483	0.91-1.17	3	p	
4590	Dimashchegolev	25.4	0.23-0.36	2+	4765	Wasserburg	3.6231	0.07-0.60	3		B
4594	Dashkova	65.423	0.70	2	4768	Hartley	22.08	0.11	2		
4600	Meadows	11.682	0.16	2	4769	Castalia	4.095	1.0	3	p	
4601	Ludkewycz	3.0250	0.33-0.36	3	4770	Lane	34.75	0.23	2		
4603	Bertaud	9.6	0.01	1	4771	Hayashi	9.801	0.38	3-		
4605*	Nikitin	2.82726	0.08	3	4773	Hayakawa	3.2401	0.09	3		
4606	Saheki	4.969	0.56-0.68	3	4774	Hobetsu	3.577	0.23	3		
4607	Seilandfarm	3.9683	0.15-0.17	3	4775	Hansen	3.1185	0.12-0.18	3		
4608	Wodehouse	13.944	0.08-0.10	3	4786	Tatianina	2.9227	0.19-0.25	3		B
4611	Vulkaneifel	3.756	0.60-0.71	3	4787	Shul'zhenko	2.892	0.04	1		W
4613	Mamoru	5.388	0.41	3	4789	Sprattia	3.136	0.17	2		W
4614	Masamura	14.4	0.02	1	4790	Petrpravec		0.02	3		N
4628	Laplace	11.105	0.32-0.48	2	4791	Iphidamas	9.696	0.12-0.49	3		
4630	Chaonis	5.398	0.11	2	4792	Lykaon	40.09	0.43	2+		
4631	Yabu	7.356	0.44-0.46	3	4795	Kihara	16.03	0.25	2		
4637	Odorico	7.560	0.64-0.72	3	4796	Lewis	3.5086	0.28-0.50	3	p	
4638	Estens	3.029	0.16	2-	4797	Ako	4.085	0.90	3		
4639	Minox	12.993	0.40	2	4800	Veveri	6.21570		3	p	N
4640	Hara	3.534	0.15	3-	4801	Ohře	32.000	0.50-0.60	3	p	
4641	Ayako	5.3126	0.61-0.88	3	4803	Birkle	14.576	0.31	2		W
4643	Cisneros	5.25	0.32-0.33	2	4804	Pasteur	13.69	0.28	3		
4649	Sumoto	26.31	0.15-0.30	2	4805	Asteropaios	12.372	0.26	3		
4650	Mori	3.895	0.11-0.13	3	4806	Miho	64.083	0.86	3		
4652	Iannini	11.69	0.09	2-	4808	Ballaero	8.8976	0.30-0.36	3		
4653	Tommaso	7.417	0.35	3	4816	Connelly	3.8978	0.36	3		
4654	Gor kavyj		0.1	1	4817	Gliba	>12.	>0.3	1		
4655	Marjoriika	9.624	0.58	3	4820	Fay	3.73	0.52	3		
4659	Roddenberry	12.	0.14	1	4824	Stradonice	3.890	0.11	2		W

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Planet	Period	Variation	Note	Planet	Period	Variation	Note
4825 Ventura	5.263	0.70-0.71	3	4975* Dohmoto	6.9618	0.87-0.89	3
4826 Wilhelms	54.	1.18	2	4976* Choukyongchol	4.416	0.78-0.88	3
4827 Dares	18.995	0.23-0.24	3	4977 Rauthgundis		0.8	
4828 Misenus	12.873	0.33	3	4979 Otawara	2.707	0.22-0.28	3 p
4832 Palinurus	5.319	0.09-0.09	2-	4986 Osipovia	3.984	0.41	2 W
4833* Meges	14.250	0.13-0.44	3	4990 Trombka	4.927	0.61	2 W
4834 Thoas	18.192	0.14-0.39	3	4994 Kisala	39.240	0.75	2 W
4836 Medon	9.818	0.22-0.31	3	4995 Griffin	26.37	0.82	3-p
4838 Billmclaughlin	5.199	0.07	2	4996 Veisberg	10.069	0.59	2 W
4841 Manjiro	2.66	0.09	2 W	4997 Ksana	3.4342	0.21	2
4844 Matsuyama	2.7232	0.35	3	4998 Kabashima	6.138	0.77	2 W
4851 Vodop'yanova	4.9	0.17	2	5003 Silvanominuto	4.760	0.13	2 W
4852 Pamjones	9.715	0.20	2 W	5004 Bruch	3.4566	0.71	3
4853 Marielukac	7.946	0.25-0.29	3-	5006 Teller	10.898	0.69	3 p
4856 Seaborg	15.853	0.41	3	5008 Miyazawakenji	13.52	0.18	2 p W
4858 Vorobjov	11.780	0.20	2 W	5009 Sethos	2.691	0.08	2 W
4859 Fraknoi	7.846	0.15	3	5010 Amenemhêt	3.390	0.18	3-
4860 Gubbio	19.36	0.32-0.85	3	5011 Ptah		>1.5	
4861 Nemirovskij	6.983	0.25-0.26	2 W	5012 Eurymedon	46.	0.30	1+
4863 Yasutani	8.616	0.42	3 W	5013 Suzhousanzhong	8.356	0.24	2 W
4867 Polites	11.235	0.09-0.26	3	5016 Migirenko	4.8	0.3	1
4868 Knushevia	3.1422	0.08-0.12	3 B?	5017 Tenchi	6.298	0.61	2 W
4869 Piotrovsky		0.83	W	5023 Agapenor	5.4020	0.12	2+
4870 Shcherban'	3.476	0.20	3-	5025 1986 TS ₆	250.	0.2	1
4871* Riverside	6.051	0.22	3	5026 Martes	4.4243	0.50-0.69	3 p
4874 Burke	3.657	0.22-0.23	3-	5027 Androgeos	11.376	0.31-0.65	3
4875 Ingalls	3.78	0.13	2+	5028* Halaesus	24.937	0.19-0.29	3
4877 Humboldt	3.49121		1 p Ns	5034 Joeharrington	8.417	0.36	3
4878 Gilhutton	6.281	0.08	1 W	5035 Swift	9.4752	0.31-0.32	3
4880 Tovstonogov	5.400	0.23	3-	5036 Tuttle	3.775	0.28-0.42	3
4890 Shikanosima	16.476	0.22	2 W	5038 Overbeek	4.038	0.39	2 W
4892 Chrispollas		0.10	N	5039 Rosenkavalier	8.715	0.22	2 W
4894 Ask	3.636	0.17-0.23	3	5040 Rabinowitz	4.6901	0.31-0.35	3
4895* Embla	14.90	0.19-0.20	3-	5041 Theotes	6.52	0.35	3-
4896 Tomoezozen	8.869	0.63-0.65	3 p	5042 Colpa		0.10	N
4898 Nishiizumi	3.289	0.23-0.29	3	5043 Zadornov	25.60	0.18	1 DAW
4899 Candace	40.7	0.15	2	5044 Shestaka	7.2573	0.17-0.18	3-
4902 Thessandrus	738.	0.60	2 T	5046 Carletonmoore	6.050	0.21	2
4904 Makio	7.830	0.08	2	5048 Moriarty	232.891	0.69	2 W
4905 Hiromi	6.0428	0.40-0.55	3	5049 Sherlock	5.4915	0.75-0.89	3
4908 Ward	10.96	0.93	2	5052 Nancyruth	17.204	0.89	3
4909 Couteau	5.054	1.04-1.10	3	5053 Chladni	8.2618	0.25	3-
4910 Kawasato	4.662	0.10-0.22	3	5059 Saroma	4.074	0.61-0.66	3
4911 Rosenzweig	12.713	0.11-0.16	2	5061* McIntosh	3.5113	0.39	2
4914 Pardina	4.142	0.23-0.28	3	5063 Monteverdi	3.48	0.61	2 W
4916 Brumberg	6.683	0.19	2+	5064 Tanchozuru	8.13	0.7	2-
4917 Yurilovia	1.1	0.05	1 p	5070 Arai	53.	>0.30	2
4919 Vishnevskaya	3.634	0.09	2	5076 Lebedev-Kumach	3.219	0.14	2-
4923 Clarke	3.143	0.03-0.14	2	5080 Oja	7.2220	0.31-0.39	3
4924 Hiltner	4.9	0.15	1	5081* Sanguin	10.260	0.49-0.53	3
4925 Zhoushan	7.8656	0.43	3	5084 Gnedjn	35.785	0.23	2 W
4927 O'Connell	9.78	0.10	1+ W	5087 Emel'yanov	14.5	0.30	2-
4928 Vermeer	3.687	0.68-0.78	3	5088 Tancredi	5.0591	0.31	3-
4930 Rephilitim	5.243	0.30-0.32	3	5089 Nádherná	13.031	0.34	2 W
4931 Tomsk	7.02	0.46	3	5091 Isakovskij	13.62	0.53	1 DAW
4933 Tylerlinder	3.46	0.23	2 W	5092 Manara		0.10	N
4935 Maslachkova	2.90192	0.23	3	5095 Escalante	8.542	0.10-0.54	2
4936 Butakov	13.828	0.08-0.14	2	5096 Luzin	3.054	0.31	3-
4937 Lintott	3.123	0.22-0.24	3	5098 Tomsolomon	4.59	0.23-0.24	2 W
4943 Lac d'Orient	11.81	0.56	2	5101 Akhmerov	4.270	0.33	2 W
4944 Kozlovskij	3.573	0.46	2 W	5104 Skripnichenko	2.82708	0.21-0.30	3
4945 Ikenozenni	22.501	0.15-0.25	3-	5105 Westerhout	13.0881	0.54	3
4946 Askalaphus	22.731	0.40	3	5107 Laurenbacall	4.946	0.17	2 W
4949 Akasofu	2.6798	0.1 -0.15	3	5108 Lübeck	8.769	0.43	3
4950 House		0.18	N	5110 Belgirate	8.26	0.12-0.12	2
4951 Iwamoto	118.0	0.34-0.38	3 T0B	5111 Jacliff	2.839	0.18	3 p
4952 Kibeshigemaro	9.166	0.47	3	5112* Kusaji	2.7995	0.12-0.20	3 B
4953 1990 MU	14.218	0.68	3	5116 Korsør	4.503	0.36	3
4954 Eric	12.056	0.59-0.80	3 p	5118 Elnapoul	36.137	0.37	3
4956 Noymer	4.366	0.17	2 W	5119 1988 RA ₁	12.807	0.31	2+
4957 Bruce Murray	2.892	0.10-0.38	3 p	5120 Bitias	15.21	0.32-0.38	3
4958 Wellnitz		0.14	N	5123* 1989 BL	9.883	0.40-0.45	3
4959 Niinoama	4.73	0.24-0.24	3	5126 Achaemenides	53.02	0.36	3-
4962 Vecherka	336.	>1.08	2	5128 Wakabayashi	5.86	0.13	2-
4963 Kanroku	2.616	0.13	3	5129 Groom	3.6395	0.17-0.23	3
4965 Takeda	12.550	0.35	2 W	5130* Ilioneus	14.768	0.13-0.37	3
4967 Glia	6.933	0.32	2 W	5131 1990 BG	37.2	0.34	2-
4970 Druyan		0.30	N	5132 Maynard	3.902	0.58	3
4971* Hoshinohiroba	10.1461	0.47	3	5133 Phillipadams	6.6645	0.40-0.46	3
4974 Elford	6.5635	0.41-0.58	3	5139 Rumoi	3.257	0.4	3

MINOR PLANET LIGHTCURVE PARAMETERS

Planet	Period	Variation	Note	Planet	Period	Variation	Note
5142 Okutama	3.803	0.27-0.27	3	5313 Nunes	2.798	0.18-0.28	3
5143* Heracles	2.7063	0.05-0.22	3 B	5316 Filatov	1061.376	0.07	1 W
5144 Achates	5.958	0.20-0.35	3	5317 Verolacqua	3.022	0.60	3-p
5145 Pholus	9.980	0.15-0.60	3 p	5318* Dientzenhofer	8.062	0.70-0.84	3
5148 Giordano	7.824	0.60	2 W	5323 Fogh	15.549	0.61	2 W
5150 Fellini	5.1953	0.45-0.61	3 p	5325* Silver	4.02361	0.05-0.28	3 p
5152* Labs	3.8801	0.38	3	5326 Vittoriosacco	>6.		3 N
5153 Gierasch	9.00	0.07	2	5327 1989 EX ₁	8.71997	0.90-1.34	3
5156 Golant	4.942	0.21	2 W	5329 Decaro	24.460	0.84	2 W
5163 Vollmayr-Lee	4.728	0.15	2	5330 Senrikyu	14.44	0.08	2
5165 Videnom	3.1535	0.19-0.24	3	5331 Erimomisaki	24.26	0.27-0.42	3-
5168 Jenner	3.258	0.24-0.30	3	5332* Davidaguilar	5.803	0.20-1.10	3 p
5169 Duffell	8.711	0.25	2 W	5333 Kanaya	3.8022	0.15-0.22	3
5171 Augustesen	480.	0.8	3 T?	5334 Mishima	2.9760	0.14	3
5175 Ables	2.798	0.06-0.10	3	5342 Le Poole	12.5495	0.45	3
5176 Yoichi		0.42	2 N	5349 Paulharris	7.890	0.06-0.18	3-
5177 Hugowolf	3.650	0.40	2 W	5350 Epetersen	5.025	0.24-0.28	3-
5181 SURF	6.1097	0.52-0.54	3	5357 Sekiguchi	5.41	0.27-0.72	3
5182 Bray	2.883	0.31	2 N	5362 1978 CH	6.879	0.19	2 W
5184 Cavaille-Coll	15.642	0.32	2 W	5363* Kupka	8.7641	0.83	3-
5186 Donalu	3.15	0.25	3-	5364 1980 RC ₁	19.	0.14	1
5187 Domon	7.524	0.30-0.38	2 W	5368 Vitagliano	59.36	0.29-0.30	2+
5189* 1990 UQ	6.676	1.02	3-	5369 Virgiugum	5.8422	0.13-0.26	3-
5191 Paddack	5.865	0.08	1 W	5370 Taranis		0.02	
5192 Yabuki	10.6693	0.36	3-	5374 Hokutosei	6.7592	0.50-0.60	3
5193 Tanakawataru	5.336	0.30-0.31	2 W	5376 1990 DD	6.2346	0.28-0.70	3
5195 Kaendler	5.33756		2 p Ns	5378 Ellyett	47.32	0.48	2 T+
5199 Dortmund		<0.1	2	5380 Sprigg	3.219	0.68	3-
5202 Charlesliot	183.	0.58	2 T?	5381 Sekhmet	2.8233	0.36-0.36	3 B
5204 Herakleitos	3.71	0.16	2 W	5382 McKay	21.486	0.86	2 W
5208 Royer	3.866	0.44	2 p	5384 Changjiangcun	12.5109	0.38-0.76	3
5211 Stevenson	14.18	0.31-0.33	3	5385 Kamenka	6.683	0.15-0.26	2
5212 Celiacruz	5.598	0.26	2 W	5386 Bajaja	16.841	0.25	3
5215 Tsurui	3.81	0.18-0.24	3	5390 Huichiming	111.	0.60-0.75	2+ TO
5216 1941 HA	32.206	0.46	2 W	5391 Emmons	3.028	0.16	2
5217 Chaozhou	11.3	0.55-0.56	2 W	5392* Parker	87.15	0.60	2+
5220 Vika	5.068	0.15	2 W	5394 Jurgens	6.073	0.21	2 W
5222 Ioffe	19.4	0.27-0.28	2	5396 1988 SH ₁	8.492	0.31	2 W
5226 Pollack	2.725	0.30	2	5397* Vojislava	54.048	0.25	3-
5228 Máca	9.857	0.59	2 W	5399 Awa	41.16	0.79-0.94	3-
5229 Irurita	5.373	0.44-0.48	2 W	5401 Minamioda	3.949	0.11	2-
5230 Asahina	89.3	0.67	3 T-	5403* Takachiho	3.959	0.29	3-
5231 Verne	4.320	0.84	3 p	5404* Uemura	3.44872	0.09-0.13	3
5232 Jordaens	10.58	0.80	2	5405* Neverland	3.149	0.14-0.20	2
5234 Sechenov	12.067	0.22-0.69	1	5406 Jonjoseph	3.555	0.57	2 W
5235 Jean-Loup		0.09	2 N	5407 1992 AX	2.5488	0.10-0.12	3 B
5236 Yoko	2.7692	0.30-0.44	3-	5408 Thé	7.374	0.68	2 W
5237 Yoshikawa	3.470	0.33	2 W	5410 Spivakov	6.62	0.17-0.18	2 W
5240* Kwasan	5.673	0.42-0.53	3	5411 Liia	12.609	0.22	2 W
5241 Beeson	6.669	0.73	2 W	5417 Solovaya	3.8329	0.09	2+
5244* Amphilochos	9.766	0.51-0.79	3	5418 Joyce	20.96	0.42-0.53	2
5247 Krylov	81.5	1.5	2 T+	5421 Ulanova	9.814	0.60	2+
5251 Bradwood	4.301	0.30	2 W	5424 Covington	5.0	0.21	2
5253 Fredclifford	3.053	0.17-0.21	3	5425 Vojtěch	2.64759	0.25-0.27	3 B
5254 Ulysses	28.72	0.32-0.33	3	5426 Sharp	4.5609	0.18-0.25	3 B?
5256 Farquhar	11.513	0.07	2	5427 Jensmartin	5.810	0.44-0.64	3
5258 1989 AU ₁	19.85	0.14	2+	5430 Luu	13.55	0.05-0.06	2
5259 Epeigeus	18.42	0.10	2	5431 Maxinehelin	5.1951	0.18-0.25	3
5260 Philveron	8.247	0.47	2 W	5435 Kameoka	6.562	0.26	2 W
5261 Eureka	2.6902	0.06	3 B	5436* Eumelos	38.41	0.40-0.68	3 A
5262 Brucegoldberg	16.410	0.12-0.75	2+	5438 Lorre	26.	0.11	2
5263 Arrius	6.907	0.54	2 W	5439 Couturier	>50.	>0.47	2
5264* Telephus	9.525	0.20-0.58	3	5440 Terao	50.32	1.0	3
5267* Zegmott	5.209	0.31-0.32	3	5446 Heyler	6.985	0.47	2+
5268 Cernohorský	15.60	0.08	1 DAW	5448* Siebold	2.9546	0.24-0.53	3
5271 Kaylamaya	2.776	0.23	2 W	5449 1992 US ₅	3.329	0.24-0.41	2
5274 Degewij	7.5802	0.19	2	5450 Sokrates	5.9822	0.20-0.37	2+
5275 Zdislava	5.2008	0.52-0.54	3	5451 Plato	6.19	0.50	2 W
5279 Arthuradel	6.476	0.28	3-	5452 1937 NN	3.2562	0.39-0.50	3
5283 Pyrrhus	7.323	0.11	2	5453 Zakharchenya	4.157	0.28	2 W
5284 Orsilocus	10.31	0.12-0.20	2+	5457 Queen's	4.326	0.19	2 W
5285 Krethon	12.04	0.33-0.46	2	5464* Weller	3.288	0.40	3
5287 Heishu	15.731	0.10	2 W	5467 1988 AG	16.085	0.58	2 W
5288 Nankichi	12.763	0.19-0.22	2	5468 Hamatonbetsu	42.02	0.43	2
5292 Mackwell	2.8956	0.42	3	5471* Tunguska	5.17	0.25	2
5293* Bentengahama	15.781	0.18	3	5472 1988 RR	5.092	0.21-0.25	2 W
5294 Onnetoh	3.556	0.44	3-	5474 Gingasen	3.6242	0.11-0.18	3 B?
5296 Friedrich	7.103	0.24	2 W	5475 Hanskennedy	66.9	0.63	2
5299 Bittesini	4.67966		2 p Ns	5476 1989 TO ₁₁	5.780	0.30	3
5307 Paul-André	5.343	0.58	3	5477 Holmes	2.9940	0.10-0.12	3 B

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Planet	Period	Variation	Note	Planet	Period	Variation	Note				
5479	Grahamryder	7.60	0.30	2	A	5648	1990 VU ₁	37.56	0.19-0.22	3-	
5481	Kiuchi	3.6196	0.08-0.10	3	B	5652*	Amphimachus	8.374	0.20-0.22	2+	HW
5483	Cherkashin	6.148	0.22	3		5653	Camarillo	4.834	0.4 -0.85	3	
5484	Inoda	14.1479	0.09-0.16	3		5654	Terni	9.255	0.24-0.41	2	
5486	1991 UT ₂	17.90	0.25	2+		5655	Barney	2.661	0.20	2	W
5488	Kiyosato	8.787	0.70-0.71	2	p W	5660	1974 MA	17.5	>0.3		N
5489	Oberkochen	5.625	0.40-0.59	3	p	5661*	Hildebrand	6.803	0.15-0.21	2+	
5492	Thoma	3.315	0.27-0.32	2+		5668*	Foucault	2.5540	0.16	3-	
5494	Johanmohr	5.727	0.98	2	p s	5670	Rosstaylor	6.971	0.32	2	W
5496	1973 NA	2.855	0.15-0.15	3		5671*	Chanal	9.84	0.61	2+	
5499	1981 SU ₂	3.6925	0.27	3		5672	Libby	131.056	0.46-0.66	2	W
5500*	Twilley	2.955	0.14	2+		5673	McAllister	5.81	0.59-0.62	3	W
5501	1982 FF ₂	2.46	0.17	1	W	5674	Wolff	93.7	0.52-0.70	3	B
5506	Artiglio	9.406	1.01	2	W	5676	Voltaire	5.039	0.05-0.12	2+	
5508	Gomyou	8.802	0.37	2	W	5677	Aberdonia	5.081	0.20	2	W
5510	1988 RF ₇	3.2	0.05	1+		5681	Bakulev	5.77394	0.99	3	
5511	Cloanthus	336.	>0.49	2-	T0	5682	Beresford	3.769	0.08-0.20	3-	
5515	Naderi	5.230	0.47-0.58	3		5685	Sanenobufukui	3.388	0.68-0.70	3	p
5518	Mariobotta	105.538	0.54-0.56	2	W	5690	1992 EU	5.	0.2	2	
5521	Morpurgo	6.191	0.89	2	W	5691	Fredwatson	106.0	1.2	3-	T0
5523	Luminet	53.326	0.31	2	W	5692	Shirao	2.8878	0.12-0.16	3	
5524	Lecacheux	8.4160	0.78	3		5693	1993 EA	2.496	0.05-0.10	2+	
5525	1991 TS ₄	14.088	0.21-0.41	3-		5701	Baltuck	4.8328	0.70	3-	
5527	1991 UQ ₃	4.2554	0.16	3		5702*	Morando	9.5	0.62	2+	
5535	Annefrank	15.12	0.17-0.25	2	A	5706*	Finkelstein	8.251	0.24	3-	W
5536	Honeycutt	3.5830	0.09	3	B	5707	Shevchenko	3.0081	0.46	3-	
5537	Sanya	3.427	0.85	2	W	5709	Tamyunleung	3.562	0.24	3-	
5541	Seimei	25.820	0.30	2	W	5711*	Eneev	107.1	0.15	2	A
5542	Moffatt	5.187	0.12	2+		5712	Funke	3.9481	0.51-0.84	3	
5551	Glikson	91.43	0.90	2		5713	1982 FF ₃	7.000	0.07	1	W
5557	Chimikeppuko	4.168	0.35-0.46	2	W	5714	Krasinsky	18.184	0.45	2	W
5558	Johannapier	73.9	0.70	2		5716	Pickard	9.6	0.03	1	
5559	1990 MV	14.971	0.37-0.49	3		5720	Halweaver	3.8883	0.55	3	
5560	Amytis	7.732	0.44-0.50	3-		5723	Hudson	4.47511			p Ns
5561	Iguchi	112.4	0.43	2	T0	5724	1986 WE	9.826	0.56	2	W
5563*	1991 VZ ₁	3.223	0.25-0.30	3-		5730	Yonosuke	5.45	0.31	2	W
5567*	Durisen	7.001	0.22-0.44	3		5732	1988 WC	3.1	0.3	2	
5570	Kirsan	4.146	0.19	2	W	5733	1989 AQ	157.767	0.66	2	W
5571	Lesliegreen	6.953	0.16	2		5735*	Loripaul	7.227	0.26	3	
5573	1981 QX	10.685	0.83	2+		5736	Sanford	3.1846	0.42	3	
5574	Seagrave	4.6629	0.25	3		5738	Billpickering	10.4	0.45	3	p
5575	Ryanpark	4.840	0.38-0.48	2	W	5740	Toutoumi	11.68	0.33	3-	
5577	Priestley	160.	0.35-0.85	3-	T	5743	Kato	14.269	0.52	2	W
5579*	Uhlherr	4.48	0.18-0.42	3-		5745	1991 AN	4.087	0.92	3	
5580	Sharidake	14.58	0.37-0.39	3		5747	1991 CO ₃	196.45	0.30-0.71	2+	
5582	1989 CU ₈	4.500	0.23	2	W	5750	Kandatai	9.264	0.50	3-	
5585*	Parks	10.344	0.15-0.35	3		5751	Zao	76.	0.1 -0.2	2	T0
5587	1990 SB	5.0522	0.68-1.26	3	p	5752	1992 CJ	86.	0.80	2	T0
5592	Oshima	12.54	0.28	2		5754	1992 FR ₂	8.9021	0.70-0.97	3	p
5593	Jonsujatha	42.	0.38	1		5759	Zoshchenko	4.203	0.55-0.61	2	W
5594	Jimmler	25.264	0.67	2	W	5761	Andreivanov	11.68	0.82-0.85	2	
5595	Roth		0.10		N	5762	Wänke	3.835	0.23	2	W
5596	Morbidelli	5.4000	0.57	3	p	5769	Michard	3.350	0.37	2	W
5598*	Carl Murray	2.9226	0.31-0.32	3		5770	1987 RY	13.91	0.51-0.56	2+	W
5599	1991 SG ₁	3.6195	0.26-0.36	3	p	5771	Somerville	9.20	0.80	2+	A
5603	Rausudake	6.79	0.30	3		5772	John Lambert	3.289	0.17	2	W
5604*	1992 FE	5.3375	0.10-0.21	3		5773	1989 NO	108.986	0.72-0.74	2	W
5605*	Kushida	3.328	0.07	2		5774	Ratliff	61.	>0.6	2	T0
5614	Yakovlev	9.713	0.55	3		5775	Inuyama	4.8345	0.57	3	
5615	Iskander	5.4150	1.05-1.1	3		5776	1989 UT ₂	4.34079			p Ns
5619	Shair	5.0643	0.48-0.94	3		5778	Jurafrance	4.14	0.27	2-	
5620	Jasonwheeler	5.307	1.2 -1.55	3		5783	Kumagaya	3.658	0.18-0.22	3	
5621	Erb	8.027	0.10	3-		5784	Yoron	11.046	0.41	2	W
5622	1990 TL ₄	3.6785	0.32	3		5786	Talos	38.52	0.23	3	NT0
5623*	Iwamori	7.087	0.37	3		5787	1992 FA ₁	4.0176	0.20-0.22	3	
5625*	Jamesferguson	6.6735	1.10	3	p	5796	Klemm	3.929	0.50	2	W
5626*	1991 FE	133.6	0.07-0.44	2		5797	Bivoj	2.706	0.12-0.17	3	
5629	Kuwana	5.197	0.24	2	W	5802*	Casteldelpiano	2.9705	0.10	2+	
5630	Billschaefer	69.	0.9	2-	T0	5803	Otzi	3.634	0.43	2	W
5633	1978 UL ₇	7.212	0.53	3		5804	Bambinidipraga	11.379	0.39	2	
5635	Cole	5.7937	0.30-0.33	3		5806	Archieroy	12.163	0.34-0.47	3	
5636	Jacobson	4.90	0.25	2	W	5807	Mshatka	129.751	0.63	2	W
5638	Deikoon	19.40	0.07-0.14	2		5808	Babel	30.1	0.47	2	
5639	Cuk	23.30	0.09-0.15	1		5811	Keck	>30.	>0.25	2	
5641	McCleese	418.	0.06-1.3	2	T0	5813	Eizaburo	2.876	0.26-0.37	3	
5642	Bobbywilliams	4.8341	0.50	3		5815	Shinsengumi	37.923	0.36	2	W
5643	Roques	7.78	0.30	1	DAW	5817	Robertfraser	4.051	0.22-0.33	3	
5645	1990 SP	30.39	0.7	2	T	5819	Lauretta	5.361	0.43	2	W
5646	1990 TR	3.1999	0.12-0.32	3	B?	5823*	Oryo	2.7939	0.31-0.42	3	
5647	1990 TZ	6.144	0.11-0.45	3	p	5826	Bradstreet	5.55	0.63	2	W

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5827 Letunov		0.97	W	6056 Donatello	6.224	0.20	2 W
5828 1991 AM	2.6666	0.15	3 B?	6057 Robbia	5.801	0.35-0.54	2 W
5830 Simohiro	58.052	0.89	2 W	6060 Doudleby	11.878	0.65	2 W
5831 Dizzy	9.074	0.32	2 W	6062 Vespa	8.407	0.35	2 W
5832 Martaprincipe		0.16	N	6063* Jason	48.6	0.11-0.12	2 T
5833 Peterson	27.441	0.24-0.29	2 W	6065 Chesneau	33.15	0.20	2
5836 1993 MF	4.9543	0.53-0.88	3 p	6066 Hendricks	5.780	0.63	2+
5837 Hedin	7.726	0.69	2 W	6067 1990 QR ₁₁	87.492	0.44	2 W
5839 GOI	6.303	0.35	3	6070 Rheinland	4.27333	0.40-0.58	3 p
5841 Stone	2.890	0.04-0.11	3 p	6071 Sakitama	4.437	0.09	3-
5847 Wakiya	23.95	0.10	1	6072 Hooghoudt	4.268	0.63-0.67	2 W
5849 1990 HF ₁	8.733	0.60	3	6073 1939 UB	5.897	0.20	3
5851 Inagawa	367.5	0.90	3 T?	6083 Janeirabloom	10.151	0.23	2
5854 1992 UP	7.1296	0.27-1.00	3	6084 Bascom	2.74542	0.14-0.23	3 B
5855 Yukitsuna	19.04	0.8	2+	6085 Fraethi	5.556	0.15-0.79	3
5858 Borovitskia	7.553	0.18-0.40	3	6087 Lupo	4.712	0.55-0.66	3 p
5863 Tara	5.867	0.17-0.19	2+	6088 Hoshigakubo	12.520	0.39	2 W
5868 Ohta	12.631	0.43	2 W	6090 1989 DJ	18.476	0.09-0.16	2+
5870 Baltimore		0.3	N	6091 Mitsuru	5.853	0.80	3
5871 Bobbell	30.21	0.27-0.35	3-	6094 Hisako	4.050	0.14-0.22	1+
5872 Sugano	3.3642	0.11	3 B	6095 1991 UU	>80.	>0.3	2
5874 1989 XB		0.06	N	6097 Koishikawa	2.85979	0.13-0.17	3
5875 Kuga	5.551	0.24-0.35	3 p	6098 Mutojunkyu	2.779	0.18	3
5876 1990 DM ₂	5.441	0.43	2 W	6100* Kunitomoikkansai	30.267	0.27	2-
5877 Toshimaihara	8.91	0.09	2	6102 Visby	3.28	0.28	2+ W
5878 Charlene	7.0584	0.20-0.21	3	6107* Osterbrock	2.372	0.09-0.24	2
5879* Almeria	13.67	0.45	2	6108 Glebov	2.8310	0.22	2
5887* Yauza	54.78	0.30	2 T?	6113 Tsap			HNW
5891 Gehrig	3.57	0.76	3 W	6116 Still	8.513	0.55	2 W
5892 Milesdavis	10.59	0.26	3	6121 Plachinda	4.0863	0.35	3
5894 Telč	17.65	0.66	2+	6122 Henrard	9.16	0.26	3-
5899 Jedicke	2.7481	0.03-0.11	3 B	6131 Towen	6.770	0.25	2 W
5905 Johnson	3.7824	0.08-0.20	3 B	6135 Billowen	28.463	0.27-0.39	2 W
5909 Nagoya	3.784	0.24	3	6136 Gryphon	16.476	0.60-0.61	3 p
5913 1990 BU	52.	0.10	1	6138 Miguelhernández	5.457	0.29-0.37	3
5914 Kathywhaler	38.730	0.10-0.22	1 W	6139 Naomi	21.35	0.20	2+
5915 Yoshihiro			HNW	6141 Durda	460.	0.50	2+ TO
5917 Chibasai	2.65	0.30-0.36	3	6144 Kondojiro	4.0	0.03	1
5920 1992 SX ₁₇	2.93681	0.18	3-	6146 Adamkrafft	6.964	0.18-0.44	3
5925 1994 CP ₁	5.4002	0.50-0.54	3	6153 Hershey	6.094	0.06	2- A
5929 Manzano	3.7596	0.72-1.01	3 p	6155 Yokosugano	3.28234	0.14-0.24	2+
5931 Zhvanetskij	12.006	0.63	3-	6158 Shosanbetsu	16.757	0.13-0.18	3
5937* Lodén	2.9189	0.36	3	6159 Andréseloy	10.639	0.78	3 p
5940 Feliksobolev	7.620	0.23-0.30	3-	6160 Minakata	11.5	0.09	2-
5941 Valencia	10.16	1.10	2 W	6161 Vojno-Yasenetsky	7.98095		p Ns
5949 1985 RL ₃	3.5940	0.29	3	6163 Reimers	6.68	0.77-1.22	3
5951 Alicemonet	3.8871	0.46	3	6166 Univsima	9.6	>0.6	2 p
5953 Shelton	>18.	>0.1	N	6168 Isnello	10.466	0.27-0.31	2 W
5967 Edithlevy	66.	0.7	3- T	6169 Sashakrot	250.055	0.39	2 W
5968 Trauger	3.7879	0.09-0.36	3	6170 Levasseur	2.6529	0.09-0.14	3
5970* Ohdohrikouen	2.6536	0.14	3-	6172 Prokofeana	6.540	0.35	3
5971 Tickell	2.99705	0.13	3	6173 Jimwestphal	2.908	0.36-0.41	3
5978 Kaminokuni	7.063	0.50	3	6174 Polybius	8.712	0.54	2 W
5985 1942 RJ	9.7212	0.11-0.18	3	6178 1986 DA	3.50	0.31-0.48	3
5986 Xenophon	6.921	0.36-0.40	3	6179 Brett	9.403	0.67-0.70	3 p
5993 Tammydickinson	S 9.44711		p Ns	6181 Bobweber	2.75796	0.12-0.15	3
5999 Plescia	5.392	0.69-0.95	3	6183 Viscome	453.	0.68-0.90	3- T?
6000 United Nations	3.262	0.45	3 p	6185 Mitsuma	21.05	>0.34	3-
6002 1988 RO	12.918	0.18	3-	6186 Zenon	2.6832	0.08	NM
6003 1988 VO ₁	104.406	0.42	2 W	6189 Völk	2.896	0.18	3
6009 Yuzuruyoshii	3.0302	0.09-0.15	3	6192 Javiergorosabel	78.85	0.2 -0.95	3 p T+
6010 Lyzenga	4.5955	0.17	3-	6199* Yoshiokayayoi	3.373	0.10	3-
6012 Williamurdoch	2.894	0.16	3-	6200 Hachinohe	78.327	0.41	2 W
6016 Carnelli	2.8028	0.07	3 B	6210 Hyunseop	2.918	0.25	2 W
6019 Telford	5.760	0.34-0.38	3	6212 Franzthaler	6.898	0.27-0.63	2
6024 Ochanomizu	6.00	0.51	1 W	6217 Kodai	3.613	0.06	1 W
6025 Naotosato	>10.	>0.2	1	6221 Ducentesima	13.788	0.34-0.41	2 W
6026 Xenophanes	4.490	0.39-0.40	2 p W	6223 Dahl	3.33	0.43	2
6028 1994 ER ₁	3.53	0.63-0.64	2 W	6229 Tursachan	16.596	0.57	2 W
6029 Edithrand	14.472	0.11-0.15	2+	6234 Sheilawolfman	11.784	0.75	2 W
6032* Nobel	7.4640	0.16	3	6235 Burney	15.515	0.60	3
6033 1984 SQ ₄	35.53	0.31	2	6236 Mallard	176.266	0.62-0.83	2 W
6035 Citlaltépetl	17.9	0.45	2	6237* Chikushi	7.787	0.23-0.38	3
6037 1988 EG	2.760	0.2	2 A	6238 1989 NM	10.819	0.60	2 W
6041 Juterkilian	13.57	0.75	1	6239 Minos	3.5558	0.08-0.10	N
6042 Cheshirecat	10.050	0.20-0.40	3-	6241 Galante	20.151	0.06	1 W
6043 Aurochs		0.45	N	6244 Okamoto	2.8958	0.11-0.15	3 B
6050 Miwablock	5.7566	0.28-0.87	3	6246 Komurotoru	3.277	0.39-0.51	3
6052 Junichi	17.173	0.15	2 W	6247 Amanogawa	12.38	0.38-0.48	3
6053* 1993 BW ₃	2.573	0.03-0.50	3 p	6249 Jennifer	4.9566	0.06-0.49	3

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Planet	Period	Variation	Note	Planet	Period	Variation	Note
6250 Saekohayashi	82.6	0.78	2+ T0	6452* Johneuller	7.59	0.49	2+ W
6254 1993 <i>UM</i> ₃	7.040	0.31	3-	6453 1991 <i>NY</i>	15.	0.20	N
6255 Kuma	9.70	0.15	2	6454 1991 <i>UG</i> ₁	9.8017	0.53	3
6258 Rodin	6.1	0.03	1	6455 1992 <i>HE</i>	2.736	0.09-0.21	2+ A
6260 Kelsey	5.11	0.17	2	6456 Golombek	2.50129	0.10-0.13	3
6261 Chione	5.3334	0.75	3	6458 Nouda	4.201	0.60-0.92	3 p
6262 Javid	8.02	0.45-0.49	3 p	6460 Bassano	2.914	0.29-0.38	2 W
6263 1980 <i>PX</i>	3.464	0.05	1	6461 Adam	74.	0.30-0.76	2 T
6265 1985 <i>TW</i> ₃	2.70932	0.26-0.36	3 B	6463 Isoda	6.15	0.21	3-
6267 Rozhen	3.98	0.12-0.14	2 W	6469 Armstrong	5.965	0.65-0.70	2 W
6271 Farmer	250.	0.13-0.22	2 T?	6470 Aldrin	5.994	0.82	2 W
6274 Taizaburo	3.13	0.30	3-	6475 Refugium	8.07	0.45-0.70	3
6276 Kurohone	6.345	0.85-0.87	2 p s	6476 1987 <i>VT</i>	10.7973	0.42-0.57	3
6279 1977 <i>UO</i> ₅	9.964	0.49	2 W	6477 1988 <i>AE</i> ₅	37.589	0.51-0.63	2 W
6280* Sicardy	3.5384	0.14	3	6479 Leoconnolly	5.11	0.75	3
6287 Lenham	5.623	0.45	2 W	6481 Tenzing	6.517	0.13	2 W
6296 Cleveland	30.84	0.11-0.70	3	6485 Wendeesther	74.82	1.00	2 TO
6302 Tengukogen	3.092	0.46	1+	6487 Tonyspear	74.91	1.24	3- p T-
6306 Nishimura	9.690	0.41-0.65	3-	6488 Drebbach	4.1270	0.48	3
6307 Maiztegui	4.68	0.15	2	6489 Golevka	6.026	0.28-1.03	3 p
6310 Jankonke	3.076	0.06-0.30	3	6490* 1991 <i>NR</i> ₂	4.4618	0.24-0.37	3
6317 Dreyfus	5.25	1.03	3	6491 1991 <i>OA</i>	2.69	0.08	2
6321 Namuratakao		0.06	N	6493 Cathybennett	3.4785	0.19-0.23	3
6322 1991 <i>CQ</i>	4.323	0.70	3	6495 1992 <i>UB</i> ₁	5.693	0.29-0.38	3
6326 Idamiyoshi	3.138	0.27-0.31	3	6497 Yamasaki	9.879	0.56	3
6327 Tijn	18.199	0.06	2	6498 Ko	>500.	0.6	2 TO
6329 Hikonejyo	6.064	0.18-0.23	3-	6499 Michiko	6.004	0.57-0.74	2 W
6330 Koen	51.604	0.53-0.65	2 W	6500 Kodaira	5.400	0.52-0.80	3
6331 1992 <i>FZ</i> ₁	9.333	0.28-0.60	2+	6502 1993 <i>XR</i> ₁	4.1931	0.13-0.18	3 B?
6335 Nicoleraappaport	4.272	0.36	3-	6505 Muzzio	13.735	0.10	2+
6344 1993 <i>VM</i>	8.24	0.82	1 DAW	6509 Giovanniprati	14.115	0.17	3-
6347 1995 <i>BM</i> ₄	7.739	0.35	2 W	6510 Tarry	6.370	0.50-0.54	3 p
6348 1995 <i>CH</i> ₁	3.085	0.15-0.19	2 W	6511 Furmanov	5.343	0.20	3-
6349 Acapulco	4.376	0.18	2 W	6514 Torahiko	8.7207	0.08	2
6350 Schlüter	13.190	0.31	3-	6516 Gruss	13.003	0.09	1
6352 Schlaun	13.87	0.67-0.70	2+	6517 Buzzi	8.648	0.64-0.84	3 p
6353 Semper	>24.	0.95	2	6518 Vernon	4.88249	0.52-0.54	3
6354 Vangelis	4.039	0.36-0.54	3-	6521 Pina	2.911	0.05	2+
6355 Univermoscow	44.027	0.24-0.55	2 W	6522* Aci	7.6937	0.68-0.79	3
6361 Koppel	9.1122	0.67	3	6530* Adry	3.289	0.29	3-
6369 1983 <i>UC</i>	2.39707	0.08	3 B	6532 Scarfe	4.932	0.43	2 W
6371* Heinlein	4.96328	0.53	3	6534 Carrie Peterson	14.291	0.22	2 W
6375 Fredharris	13.316	0.64	2 W	6535 Archipenko	6.507	0.20	2 W
6376 Schamp	6.6093	0.16	3	6536 Vysochinska	6.109	0.53	2+
6377 Cagney	4.171	0.20	3	6537 Adamovich	2.4	0.13	1 W
6378 1987 <i>SE</i> ₁₃	6.120	0.45	2 W	6538 Muraviov	2.9759	0.24	2+
6379 Vrba	5.11	0.30	3	6539 Nohavica	5.80	0.66	1 DAW
6381 Toyama	27.	0.13	2-	6543 Senna	3.30	0.19	3-
6382 1988 <i>EL</i>	2.895	0.06-0.20	3	6545 1986 <i>TR</i> ₆	16.26	0.31	2+
6384* Kervin	3.6203	0.06-0.16	3	6546 Kaye	10.006	0.32-0.34	2 W
6385 Martindavid	5.476	0.43-0.51	2 W	6553 Seehaus	3.991	0.55	2 W
6386 Keithnoll	3.1381	0.08	2+	6555 1989 <i>UU</i> ₁	12.6778	0.27	3-
6388 1989 <i>WL</i> ₁	3.870	0.30	3	6556 Arcimboldo	2.5158	0.16-0.24	3
6392 Takashimizuno	21.81	0.48	2	6560 Pravdo	19.229	0.50-0.72	3-
6393 1990 <i>HM</i> ₁	32.70	0.24	2	6561 Gruppetta	3.4	0.54-0.66	3- W
6394 1990 <i>QM</i> ₂	3.6873	0.25-0.39	3	6568 Serendip	>16.	>0.35	2- W
6398 Timhunter	14.55	0.29-0.32	3	6569 Ondaatje	5.959	0.70-0.98	2
6399 Harada	11.02	0.36	3-	6570 Tomohiro	9.965	0.51	2 W
6400 Georgealexander		0.20	N	6572 Carson	2.8235	0.33	3
6401 Roentgen	15.96	0.35-0.67	2+	6574 Gvishiani		0.20	N
6402 Holstein		0.1	N	6577 Torbenwolff	6.984	0.85	3-
6403 Steverin	3.4905	0.35-0.47	3 p	6581 Sobers	6.6338	1.14	3
6405 Komiyama	19.855	0.13	2 A	6587 Brassens	5.2	0.27-0.54	2
6406 Mikejura	6.819	0.65-1.18	3 p	6590 Barolo	8.35928		3 p Ns
6407 1992 <i>PF</i> ₂	3.14	0.22	3	6598 Modugno	6.769	0.21-0.36	2 W
6409 1992 <i>VC</i>	3.1490	0.50	3	6602 Gilclark	4.5686	0.21-0.54	3
6410 Fujiwara	7.0073	0.60-0.85	3 p	6607 Matsushima	11.359	0.87	2 W
6411 Tamaga	8.383	0.29-0.34	3	6608 Davidecrespi	>20.	>0.3	2
6413 Iye	4.664	0.15	2 W	6610 Burwitz	3.014	0.22	N
6418 Hanamigahara	6.3770	0.33	3	6611 1993 <i>VW</i>	2.5568	0.06-0.15	3 B?
6422 Akagi	7.74756	0.77	2 p W	6615 Plutarchos	2.3247	0.06	3 B?
6425 1994 <i>WZ</i> ₃	103.9	0.92	2 TO	6618* Jimsimos	4.142	0.12-0.4	3-
6427 1995 <i>FY</i>	6.195	0.84	2 W	6619 Kolya	10.5011	0.39	3
6432 Temirkanov	5.71	0.42	2 W	6622 Matvienko	10.216	0.40-0.41	2 W
6433 Enya	7.400	0.08	1 W	6626 Mattgenge	107.081	0.48	2 W
6434 Jewitt	3.237	0.28	2 W	6634 1987 <i>KB</i>	5.333	0.22-0.23	3
6435 Daveross	51.25	0.10-0.67	3- T-	6635 Zuber	5.5355	0.63-0.75	3
6438 Suárez	2.9416	0.15-0.20	3	6642 Henze	4.4696	0.26-0.35	3
6444 Ryuzin	7.9290	0.76-0.98	3	6646 Churanta	5.8711	0.73-0.77	3
6447 Terrycole	10.278	0.21-0.25	3-	6650 Morimoto	13.49	0.24	2

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Planet	Period	Variation	Note	Planet	Period	Variation	Note
6652 1991 SJ ₁	85.56	0.75	2	6902 Hideoasada	73.341	0.36-0.68	2 W
6659 Pietsch	12.985	0.31	2 W	6905 Miyazaki	2.7418	0.14	3 p
6660 Matsumoto	7.556	0.33-0.40	2 W	6911 Nancygreen	54.7	0.35-0.75	3- TO
6662 1993 BP ₁₃	>24.	0.94	1	6915 1992 FH	4.76345	0.52-0.61	3
6663 Tatebayashi	4.8	0.35	2	6916 Lewispearce	23.497	0.25	2 W
6664 Tennyso	3.2	0.20	1	6918 Manaslu	8.97	0.21	2 W
6669* Obi		0.15	N	6921* Janejacobs	5.062	1.20	3
6670 Wallach	4.080	0.39-0.65	3	6929 Misto	4.248	0.11	2-
6671 Concari	5.22042		p Ns	6932 Tanigawadake	3.79	0.42-0.45	2+ W
6672 Corot	37.62	0.87	2 W	6933 Azumayasan	7.78	0.16	3-
6674* Cézanne	3.37	0.30	2	6938 Soniaterk	8.33	0.29	2
6676 Monet	3.48	0.21	2 W	6939 Lestone	2.821	0.26	2 W
6680 1970 WD	6.722	0.34	3	6943 Moretto	2.8221	0.19	3
6683 Karachentsov	13.989	0.71	2 W	6944 Elaineowens	2.91280	0.16-0.17	3
6685 Boitsov	2.5	0.10	2	6949 Zissell	3.6336	0.24	3
6686 Hearnus	4.707	0.42	2 W	6950 Simonek	3.083	0.11	2 W
6693* 1986 CC ₂	11.39	0.28	2 A	6952 Niccolò	12.5320	1.10	3-
6694 1986 PF	7.01	0.05	2-	6956 Holbach	4.463	0.49	2 W
6699 Igaueo		0.15	N	6961 Ashitaka	3.1457	0.13-0.15	3-
6702 1988 BP ₃	18.205	0.40	2 W	6965 Niyodogawa	6.36	0.28	2 W
6706 1988 VD ₃	27.021	0.05	1 W	6966 Vietoris	2.773	0.09	1 W
6707* Shigeru	2.6156	0.09	2	6969* Santaro	flat	0.01	
6708 Bobbievaile	12.3415	0.26-0.41	3 B	6972 Helvetius	16.35	0.33	2
6709 Hiromiyuki	6.828	1.00	3	6974 Solti	2.423	0.16	3
6719 Gallaj	4.430	0.95	2 p s	6976 Kanatsu	4.025	0.33-0.35	3
6720 Gifu	4.231	0.40	3-	6980 Kyusakamoto	3.253	0.40-0.41	2 W
6721 Minamiawaji	14.518	0.56-0.56	2 W	6982 1993 UA ₃	16.08	0.10	2
6729* Emiko	3.13	0.15	3	6984 Lewiscarroll	24.65	0.16	2 A
6730 Ikeda	16.33408	0.54	2	6990 Toya	15.622	0.43	2 W
6733 1992 EF	11.357	0.50	2 W	6992 Minano-machi	>24.	>0.10	1
6734 Benzenberg	196.708	0.41	2 W	6995 Minoyama	125.335	0.76	2 W
6736 Marchare	18.632	0.11	2 W	7001* Noether	9.5809	0.65-0.70	3 p
6737 Okabayashi	2.55	0.07-0.12	3-	7002 Bronshthen	2.671	0.14	3
6741 Lijuan	10.768	0.13	3-	7005 Henninghaack	12.914	0.76	2 W
6743 Liu	7.364	0.40	3	7007 Timjull	3.551	0.30-0.31	2 W
6744 Komoda	3.110	0.40	3	7011 Worley	6.419	0.12	2 W
6746 Zagar	8.136	0.20	3-	7012 Hobbes	8.938	0.48	2 W
6750 Katgert	9.445	0.29	2 W	7016 Conandoyle	6.5427	0.82	3
6751 van Genderen	3.143	0.47-0.60	2 W	7019 Tagayuichan	39.795	0.3 -0.49	2 W
6753 Fursenko	4.99	0.19	1+ W	7020 Yourcenar	10.18	0.37	2-
6755 Solov'yanenko	8.1681	0.28-0.32	3 p	7022 1992 JN ₄	5.517	0.32	2 W
6764 Kirillavrov	4.74	0.07	2+	7023 Heiankyo	10.807	0.48-0.58	3
6774 Vladheinrich	3.60	0.58	2 W	7025 1993 QA	2.5057	0.32-0.50	3
6777 Balakirev	9.116	0.23-0.26	2 W	7027* Toshihanda	36.304	0.28-0.30	3- B
6778 Tosamakoto	>6.	>0.08	2	7028 Tachikawa	10.489	0.23-0.24	2 W
6779* Perrine	72.279	1.16	2 T?	7029 1993 XT ₂	10.	0.47	2
6784 Bogatkov	11.527	0.60	2 W	7030 Colombini	6.5937	0.47	3
6790 Pingouin	>12.	>0.45	2- D	7033 1994 WN ₂	2.8162	0.09-0.10	3
6793 Palazzolo	6.231	0.14-0.16	2 W	7035 Gomi	62.897	0.09	1 W
6794 Masuisakura	4.58	0.62	3	7036 Kentarohirata	11.283	0.58-0.79	3
6795 Örnsköldsvik	13.947	0.37-0.45	2 W	7038 Tokoroazawa	160.044	0.60	2 W
6801 Střekov	6.173	0.17	2	7041 Nantucket	4.30	0.11	1
6805 Abstracta	152.183	0.78	2 W	7043 Godart	8.4531	0.68-0.70	3 p
6808 Plantin	5.82	0.32	1	7046 Reshetnev		0.31	N
6815 Mutchler	2.4384	0.09	3- B?	7055 Fabiopagan	4.16845	0.55-0.59	3 p
6821 Ranevskaya	2.81	0.10	2+	7059 Van Dokkum	4.620	0.71	2 W
6823 1988 ED ₁	2.546	0.10-0.30	3	7062 Meslier	4.012	0.22	2 W
6825* Irvine	3.61588	0.58-0.85	3	7066 Nessus		0.5	
6827 Wombat	40.132	0.25-0.34	2 W	7072 Beijingdaxue	5.304	0.99	2 p s
6829 Charmawidor	27.824	0.28	2 W	7077 Shermanschultz	4.860	0.20-0.22	2 W
6835 Molfino	3.690	0.25	2 W	7084 1991 BR	5.308	0.19	2 W
6838 Okuda	8.983	0.14	2+	7085 1991 PE	3.615	0.24	2 W
6840 1995 WW ₅	482.274	0.46	2 W	7086 Bopp	29.15	0.10-0.16	2+
6845* Mansurova	21.33	0.36	2+	7087 Lewotsky	3.942	0.12-0.51	3
6847 Kunz-Hallstein	6.4030	0.27-0.31	3	7088 Ishtar	2.6790	0.11	3 B
6851* Chianti	6.635	1.11	3	7089 1992 FX ₁	3.036	0.06	2
6852 Nannibignami	3.025	0.47	2 W	7090 1992 HY ₄	9.074	0.48	2 W
6853 Silvanomassaglia	2.796	0.12	2	7106 Kondakov	7.59690		p Ns
6854 1987 UG	3.64	0.66	2 W	7111 1985 QA ₁	11.21	0.21	3-
6859 Datasamune	5.2879	0.06	2 A	7116 Mentall	6.489	0.11	2+
6861 1991 FA ₃	19.466	0.41-0.42	2 W	7119 Hiera	>400.	>0.1	1
6867 Kuwano	7.367	0.52-0.70	3	7120 Davidgavine	2.868	0.18	2 W
6870 Pauldavis	4.487	0.50-0.68	3	7122 Iwasaki	>96.	>0.6	HNW
6877 Giada	4.1745	0.47	3	7124 Glinos	29.310	0.42	2 W
6882 Sormano	3.690	0.71	2 p W	7131 Longtom		0.1	N
6883 Hiuchigatake	5.508	0.43	2 W	7132 Casulli	3.524	0.15-0.25	3-
6886 Grote	5.755	0.11	3	7133 Kasahara	8.845	0.20-0.37	3
6887 Hasuo	2.752	0.18	2 W	7134 Ikeuchisatoru	>20.	>0.15	2
6897 Tabei	5.862	0.43	3	7138 1994 AK ₁₅	145.264	0.26	2 W
6901 Roybishop	4.682	0.04-0.07	2 AB?	7139 Tsubokawa	2.756	0.16-0.18	2 W

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7142	Spinoza	12.375	0.57-0.61	2 W	7368*	Haldancohn	3.90337	0.14	3-
7143*	Haramura	3.664	0.17	3-	7369	Gavrilin	49.12	0.25	3 B
7144	Dossobuono	3.4685	0.19	2+	7370	Krasnogolovets	4.901	0.34	2 W
7145	Linzexu	2.905	0.10	2+	7372	Emimar	2.564	0.19	2 W
7147	Feijth	5.318	0.06	1 W	7373	Stashis	>30.	>0.6	2- W
7148	Reinholdbien	11.92	0.44	1 DAW	7380	1981 RF	4.37	0.48-0.50	3- W
7151	1971 SX ₃	5.072	0.73-0.84	3	7385	Aktsynovia	4.123	0.32-0.34	3-
7152	Euneus	9.73	0.09	2	7389*	Michelcombes		0.10	N
7153	Vladzakhirav	105.143	0.76	2 W	7395	1985 RP ₁	64.568	0.64	2 W
7160	Tokunaga	5.1352	0.13	3-	7409	1990 BS	31.610	0.20	2
7166	Kennedy	3.659	0.52	2 W	7415	Susumuimoto	11.71	0.51	2- W
7167	Laupheim	7.040	0.31	2 W	7419	1991 PN ₁₃	>20.	>0.1	1
7169	Linda	27.864	0.20-0.88	2 p	7421	Kusaka	96.5	0.58-0.70	2 T
7173	Sepkoski	2.5006	0.09-0.20	3	7422	1992 LP	81.493	0.51	2 W
7174*	Semois	7.456	0.38	2+	7429	Hoshikawa	>20.	>0.65	2
7181	1991 PH ₁₂	206.688	0.50	2 W	7436	Kuroiwa	5.610	0.07	2
7183	1991 RE ₁₆	275.754	0.46	2 W	7437	Torricelli	13.72	0.41	1 DAW
7186	Tomioka	7.309	0.13	2	7440	Závist	7.436	0.55	2 W
7187	Isobe	4.2432	0.09-0.22	3 B	7446	Hadrianus	3.402	0.67	3
7188	Yoshii	260.	0.49	1+	7449	Döllen	10.	0.10	2-
7189	Kuniko	2.922	0.15	2 W	7452	Izabelyuria	11.79	1.1	2 W
7192	Cieletespace	6.3546	0.44-0.57	2+	7454	Kevinrighter	4.01	0.59	2-
7193	Yamaoka	32.580	0.51	2 W	7456	Doressoundiram	14.786	0.35-0.37	2 W
7195	Danboice	8.67	0.16	1+	7458	1984 DE ₁	16.7	0.30-0.33	2 W
7196	Baroni	6.604	0.74	2 W	7461	Kachmokiam	10.67	0.30	2- W
7203	Sigeki	11.420	0.24-0.33	2 W	7467	1989 WQ ₁	7.633	0.40	3
7204	Ondřejov	5.233	0.55	2 W	7471	1991 YD	19.150	0.48	2 W
7209	Cyrus	5.381	0.34	2 W	7474	1992 TC	5.540	0.07	2
7210	Darius	6.237	0.29	2 W	7476	Ogilsbie	3.92	0.40-0.40	3
7213	Conae	5.3855	0.70	3	7477	1993 LC	74.240	0.85-1.09	2 W
7216	Ishkov	10.958	0.12-0.13	2 W	7479	1994 EC ₁	4.926	0.27	2 W
7218	Skácel	7.56	0.32	2 W	7480	Norwan	35.90	>0.5	2 TO
7225	Huntress	2.43995	0.11	3 B	7481	San Marcello	1.4	0.08	N
7229	Tonimoore	4.	0.37	2	7482	1994 PC ₁	2.5999	0.29-0.38	3
7233	Majella	3.812	0.60-0.66	3 p	7484	Dogo Onsen	6.237	0.53-0.75	2 W
7241	Kuroda	59.6	0.61	2 HW	7487*	Toshitanaka	4.505	0.24	3-
7243	1990 VV ₃	9.300	0.68	2 W	7488	Robertpaul	42.922	1.00	2 W
7244	Villa-Lobos	35.029	0.5 -0.83	2 W	7489	Oribe	112.666	0.80	2 W
7247*	Robertstirling	3.17	0.11-0.15	3-	7494	Xiwanggongcheng	21.849	0.52	2 W
7255	1993 VY ₁	9.022	0.13-0.18	3	7496	Miroslavholub	17.87	0.14	2
7262	Sofue	8.2223	0.46	3	7505	Furusho	4.139	0.52-0.75	3
7267	Victormeen	3.0420	0.14-0.20	3	7509*	Gamzatov	249.	0.75	3- TO
7270	Punkin	7.51	0.45-0.55	2+	7510	1978 UF ₆	5.380	0.16-0.19	2 W
7271	Doroguntsov	4.02	0.20	2 W	7516	Kranjc	3.96769	0.15-0.16	3
7272	Darbydyar	30.334	0.33	2 W	7517	Alisondoane	9.701	1.13	3 p
7281	1988 RX ₄	16.7	0.13	2	7522	1991 AJ	60.405	0.20-0.24	2 W
7283	1989 TX ₁₅	2.6747	0.19	3	7525	Kiyohira	6.385	0.06	1 W
7285	Seggewiss	3.460	0.52	3	7526	Ohtsuka	7.109	0.16	3-
7288	1991 FE ₁	4.890	0.47	2 W	7530	Mizusawa	5.6424	0.10-0.15	2
7289	Kamegamori	3.831	0.73	2 p s	7531	Pecorelli	3.339	0.54-0.59	2 W
7295	Brozovic	3.3471	0.56-0.66	3	7537	Solvay	9.276	0.31	2 W
7299	Indiawadkins	10.381	0.19	2 W	7541	Nieuwenhuis	3.809	0.18	2 W
7301*	Matsuitakafumi	2.513	0.30	2	7543	Prylis	17.80	0.10	2
7302	1993 CQ	3.275	0.19	2 W	7545	Smaklösa	14.322	0.75-0.92	3
7304	Namiki	8.8712	0.30-0.95	3	7548	Engström	5.231	0.35	2 W
7313	Pisano	2.63	0.29	2 W	7550*	Woolum	3.142	0.31-0.33	3-
7317	Cabot	2.237	0.10	1 W	7553	Buie	4.245	0.51-0.53	2 W
7318	Dyukov	4.856	0.63	2 p s	7557	1982 FK ₃	5.650	0.34	3
7321	1979 MZ ₂	83.177	0.83	2 W	7559	Kirstinemeyer	5.475	0.05	2 A
7328	Casanova	9.122	0.31	2 W	7560*	Spudis	3.5449	0.10-0.38	3 B?
7330	Annelemaître	4.438	0.23-0.32	3	7563	1988 BC	6.539	0.24-0.30	3
7331	Balindblad	16.3	0.18	1+	7564	Gokumenon	30.58	0.65	3
7333*	Bec-Borsenberger	12.727	0.88	3	7569	1989 BK	3.60	0.15	2
7334	Sciurus	4.0659	0.28	3	7579	1990 TN ₁	18.316	0.91-1.15	3
7335	1989 JA	<12.		RN	7583	Rosegger	7.661	0.45	2 W
7336*	Saunders	4.311	0.2 -0.31	2+	7584	Ossietzky	2.726	0.21	2 W
7339	1991 RA ₁₆	8.936	0.24-0.28	2 W	7588	1992 FJ ₁		0.21	N
7340	1991 UA ₂	10.697	0.76	2 W	7593	1992 WP ₄	2.557	0.14-0.17	3
7341	1991 VK	4.2096	0.21-0.70	3	7594	Shotaro	9.643	0.26	2 W
7343	Ockeghem	3.7547	0.14-0.23	3 p	7601	1994 US ₁	3.74	0.39	3-
7344*	Summerfield	2.58975	0.17	3 B	7602	Yidaeam	2.909	0.29	2 W
7348	1993 FJ ₂₂	3.47	0.10-0.13	2 W	7603	Salopia	1.2	<0.05	1
7350*	1993 VA	3.58264	0.15-0.38	3	7611	Hashitatsu	9.806	0.17	2 W
7352	1994 CO	648.	0.30	3-	7618	Gotoyukichi	2.984	0.26	2 W
7354	Ishiguro	6.224	0.14	2 W	7638	Gladman	17.3	0.25-0.50	2
7355	Bottke	2.6361	0.21	2	7641	1986 TT ₆	27.770	0.40	3
7356	Casagrande	23.755	0.09	1 W	7644	Cslewis	2.31	0.22	2-
7358	Oze	5.433	0.07-0.22	2-	7645	Pons	35.390	0.65-0.73	2 W
7360	Moberg	4.5842	0.38-0.41	3 p	7650	Kaname	18.172	0.49	2 W
7361	Endres	5.879	0.59-0.75	2 W	7655	Adamries	22.876	0.33	2 W

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Planet	Period	Variation	Note	Planet	Period	Variation	Note
7658 1993 <i>BM</i> ₁₂	2.38	0.15	2 W	7964 1995 <i>DD</i> ₂	10.224	0.84	2 p s
7660 Alexanderwilson	5.924	0.32-0.86	3 p	7965 Katsuhiko	5.3897	0.40-0.50	3
7663 1994 <i>RX</i> ₁	102.06	0.34	2 W	7966 Richardbaum	4.680	0.81-0.87	3
7667 1995 <i>BL</i> ₃	15.3	0.23	2	7968 Elst-Pizarro	3.471	0.33	3
7676 1995 <i>WN</i> ₈	21.61	0.19	2+	7975 1974 <i>FD</i>	5.739	0.55	2 W
7677 Sawa	3.00	0.23	2 W	7977* 1977 <i>QQ</i> ₅	7.456	0.25-0.57	3
7684 Marioferrero	17.296	0.44	2 W	7979 Pozharskij	3.772	0.16-0.20	2 W
7694 Krasetin	117.755	0.92	3-	7980 Senkevich	10.48	0.38-0.41	2 W
7695 Přemysl	11.734	0.25	2+	7983 Festin	5.562	0.53-0.64	2 W
7696 Liebe	13.889	0.43-0.44	2 W	7984 Marius	3.534	0.15	2 W
7707 Yes	4.971	0.68	2 W	7996 Vedernikov	5.828	0.09-0.14	2
7708 Fennimore	18.64	>0.3	2- W	7997 1985 <i>CN</i> ₁		<0.2	P
7710 Ishibashi	11.521	0.50-0.54	2 W	7998 Gonczi	6.50	0.58-0.88	3-
7713 Tsutomu	2.906	0.27	2 W	8007 1988 <i>RU</i> ₆	3.918	0.24	2 W
7718 Desnoux	19.	>0.05	1	8008 1988 <i>TQ</i> ₄	12.2	0.02	1
7719 1997 <i>GT</i> ₃₆	29.555	0.31	2	8011 Saijokeichi	4.499	0.19	2 W
7728 Giblin	11.8	0.60-0.63	2 W	8013 Gordonmoore	8.40	0.25	2 A
7729* Golovanov	3.3961	0.37	3	8017 1990 <i>RM</i> ₅			W
7735 Scorzelli	13.2	0.84	N	8021 Walter	4.84	0.07	2 A
7737* Sirrah	4.49	0.08	3- W	8022 Scottcrossfield	4.003	0.33	2 W
7741 Fedoseev	14.074	0.12	2+	8024 Robertwhite	7.067	0.90-0.95	3
7742 Altamira	2.70	0.11	2 W	8025 Forrestpeterson	4.089	0.38	2 W
7743 1986 <i>JA</i>	146.8	0.93	3- T?	8026 Johnmckay	372.	0.66-1.00	3 TOB?
7745 1987 <i>DB</i> ₆	7.04	0.89-1.18	3	8028* Joeengle	9.1	0.35	2
7747 Michałowski	4.50	0.44-0.51	2 W	8033 1992 <i>FY</i> ₁	10.099	0.14	3-
7748 1987 <i>TA</i>	4.22	0.15	3-	8034 Akka	7.283	0.46-0.52	2 A
7749 Jackschmitt	5.337	0.20	3-	8037* 1993 <i>HO</i> ₁	12.98	0.09-0.1	2+
7750 McEwen	27.8182	0.43-0.65	3	8041 Masumoto	34.0	0.27-0.39	2
7751 1988 <i>UA</i>	9.36	0.74-0.85	3- W	8042 1994 <i>AX</i> ₂	8.133	0.42-0.46	2 W
7757 Kameya	5.98	0.11	2 A	8043 Fukuhara	22.7606		p N
7758 PoulAnderson	2.64752	0.14-0.15	3 B?	8053 Kleist	4.172	0.73	2 W
7760 1990 <i>RW</i> ₃	25.940	0.32-0.35	3	8054 Brentano	623.770	0.46	2 W
7767 Tomatic	25.070	0.13	2 W	8057 Hofmannsthal	5.65	0.10	2 W
7774* 1992 <i>UU</i> ₂	3.869	0.33-0.54	3-	8058 Zuckmayer	4.80	0.13	2 W
7776 Takeishi	8.90	0.05	1	8059 Deliyannis	6.004	0.39	3-
7778 Markrobinson	7.230	0.59-0.66	3	8062* Okhotsymskij	5.282	0.48-0.49	3
7780 Maren	22.321	0.43	2 W	8077 Hoyle	2.7454	0.20-0.30	3 B
7781 Townsend	81.1	0.58	3- T-	8080 Intel	3.54	0.31-0.34	3- W
7783 1994 <i>JD</i>	31.83	0.85	3 p	8085 1989 <i>CD</i> ₈	7.75	0.20	2
7784 Watterson	2.539	0.10	3-	8086 Peterthomas	8.118	0.24	2 W
7790 Miselli	2.708	0.48-0.61	2 W	8091 1992 <i>BG</i>	8.5630	1.09-1.11	3
7792 1995 <i>WZ</i> ₃	3.16001	0.21	3	8098 Miyamotoatsushi	5.240	0.03	1 W
7797 Morita	3.9288	0.28	2	8102 Yoshikazu	3.34	0.28	1+ W
7803 Adachi	5.197	0.31	2 W	8103 Fermi	5.262	0.19	2 W
7808 Bagould	13.295	0.14	2 W	8107 1995 <i>BR</i> ₄	6.9785	0.37	3
7811 Zhaojiuzhang	3.354	0.62-0.67	2 W	8109 Danielwilliam	789.979	0.60	2 W
7816 Hanoi	5.17	0.72-0.77	3-	8110 Heath	3.171	0.08	1 W
7818 Muirhead		0.1	N	8111 Hoepfli	17.489	0.23	2 W
7822 1991 <i>CS</i>	2.389	0.26-0.39	3	8116 Jeanperrin	3.61692	0.09-0.10	3 B
7824 Lynch	75.30	0.37	3 TO	8120 Kobe	5.86	0.69-0.74	3 W
7825 1991 <i>TL</i> ₁	>10.	>0.05	2	8121 Altdorfer	4.022	0.34	2 W
7829 Jaroff	4.398	0.50-0.67	3	8128 Nicomachus	4.67	0.48-0.57	2+ W
7831 François-Xavier	9.940	0.20	2 W	8130 Seeberg	38.10	0.23-0.42	3- T?
7832 1993 <i>FA</i> ₂₇	8.295	0.03	2	8132 Vitginzburg	7.28	0.47	3 p
7834 1993 <i>JL</i>	15.707	0.31	2 W	8133 Takanochoei	18.773	0.39	2 W
7835 Myroncope	S 7.43019		p Ns	8135 1978 <i>VP</i> ₁₀	5.2	0.3	2
7837 Mutsumi		0.40	N	8138 1980 <i>FF</i> ₁₂	3.206	0.10-0.13	2 W
7846 Setvák	2.613	0.11-0.14	2 W	8146* Jimbell	5.3631	0.33	3
7853 Confucius	26.638	0.47	2 W	8151 Andranada		0.04	N
7870 1987 <i>UP</i> ₂	12.	0.06-0.07	1	8152 1986 <i>VY</i>	6.38	0.30	2+
7875 1991 <i>ES</i> ₁	20.046	0.36	2 W	8159 Fukuoka	5.400	0.19	2-
7879 1992 <i>EX</i> ₁₇	3.634	0.32	2 W	8160 1990 <i>MG</i>	3.719	0.38	2 W
7888* 1993 <i>UC</i>	2.337	0.10-0.22	2+ B	8161 Newman	7.003	0.41	2 W
7889 1994 <i>LX</i>	2.741	0.27-0.39	3	8162 1990 <i>SK</i> ₁₁	2.224	0.08	1 W
7895 Kaseda	5.11	0.10	2+	8163 Ishizaki	3.243	0.32	2 W
7896 Švejk	S 16.20582		p Ns	8164 Andreasdoppler	6.175	0.29	2 W
7898 Ohkuma	131.322	0.60	2 W	8165 Gnädig	6.300	0.57	2 W
7905 Juzoitami	2.728	0.66	2 p W	8173 1991 <i>RX</i> ₂₃	104.128	0.74	2 W
7914 1978 <i>UW</i> ₇	2.8467	0.24	2+	8176 1991 <i>WA</i>	7.111	0.80-0.99	N
7920 1981 <i>XM</i> ₂	2.596	0.15	2 W	8180 1992 <i>PY</i> ₂	13.014	0.24	3
7922 1983 <i>CO</i> ₃	4.830	0.30	2 W	8181 Rossini	13.253	0.49	2 W
7923 Chyba	5.716	0.19-0.23	2 W	8187 Akiramisawa	5.815	0.90	2 W
7929 1987 <i>SK</i> ₁₂	2.97	0.28	2 W	8189 Naruke	8.91	0.36	2
7930 1987 <i>VD</i>	long?	<0.1	1	8190 Bouguer	6.842	0.33	2 W
7933 Magritte	3.26	0.38	2+	8195 1993 <i>UC</i> ₁	7.8615	0.33	3
7936 Mikemagee	7.834	0.84	2 W	8201 1994 <i>AH</i> ₂	23.949	0.3	2
7946 1991 <i>RV</i> ₁₃	51.343	0.23	2 W	8202 Gooley	9.514	0.41	2 W
7949 1992 <i>SU</i>	17.91	0.20	2	8209 Toscanelli	3.618	0.36	2 W
7958 Leakey	2.34843	0.19-0.22	3 B	8212* Naoshigetani	8.69	0.03	1
7959 Alysecherri	3.540	0.12-0.13	3-	8213* 1995 <i>FE</i>	2.911	0.38-0.44	3

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8217 Dominikašek	6.91	0.69	2 W	8549 Alcide	>3.	>0.2	2-
8223 Bradshaw	9.408	0.54	2 W	8551* Daitarabochi	6.62	0.19	2 A
8225 Emerson	5.206	0.42-0.43	2 W	8559 1995 QM ₂	4.072	0.67	2 W
8228 1996 YB ₂	8.353	0.18	3	8563 1995 US	3.197	0.56	3
8234 Nobeoka	33.090	0.49	2 W	8564 Anomalocaris	20.329	0.39	2 W
8241* Agrius	17.89	0.23-0.28	2+ HW	8567 1996 HW ₁	8.7573	0.22-1.00	3 p
8245 Molnar	4.716	0.30-0.37	2 W	8568 Larrywilson	11.29	0.39	2 W
8252 Elkins-Tanton	14.15	0.14	2	8571 Taniguchi	5.304	0.54-0.76	2 W
8253 Brunetto	3.9	0.15	1	8573 Ivanka	8.03312		p Ns
8256 Shenzhou	3.395	0.30-0.32	3	8575 Seishitakeuchi	5.257	0.33-0.43	2 W
8259 1983 UG	6.951	0.61	2 W	8584 1997 AN ₂₂	31.520	0.95	2 W
8261 Ceciliejulie	14.009	0.42-0.43	2 W	8589 Stellaris	5.37	0.42-0.70	3
8270 Winslow	6.37	0.69-0.77	3	8590 Pygargus	17.62	0.20	1 DAW
8272 Iitamura	3.11743	0.35	3-	8591 Excubitor	14.628	0.14	2 W
8281 1991 PC ₁₈	12.635	0.71	2 W	8595 Dougallii	10.130	0.25	2 W
8290 1992 NP	4.453	0.58	3-	8612 Burov	6.140	0.76	2 W
8292 1992 SU ₁₄	2.856	0.04	1 W	8615 1979 MB ₂	731.276	1.16	2 W
8297 Gérardfaure	>10.	>0.15	1	8625 Simonhelberg	5.27	0.40-0.53	2 W
8306 Shoko	3.3503	0.10-0.11	3 B	8630 Billprady	79.652	0.58	2 W
8309 1996 NL ₁	19.76	0.16	2+	8634 Neubauer	5.096	0.50	2 W
8316 Wolkenstein	4.57	0.40-0.42	2 W	8636 Malvina	16.994	0.44-0.47	2 W
8325 Trigo-Rodriguez	32.25	0.20	2- W	8639 1986 VB ₁	4.626	0.12	3
8337 1984 SF ₆	4.060	0.21	2 W	8643 Quercus	16.953	0.22	2 W
8338 Ralhan	5.2745	0.44-0.62	3	8645 1988 TN	7.616	0.36	3-
8345* Ulmerspatz	17.13	0.47-1.05	3-	8647* Populus	2.537	0.15	3
8348 Bhattacharyya	19.60	0.06-0.10	2- A	8649 Juglans	6.028	0.18-0.20	2 W
8354 1989 RF	8.298	0.57-0.59	2 W	8653 1990 KE	>14.		N
8355 Masuo	6.0677	0.43	3	8657 Cedrus	13.467	0.67-0.80	2 W
8356 Wadhwa	3.04303	0.11-0.13	3	8663 Davidjohnston	32.8	0.30	2
8359 1989 WD	2.89111	0.34-0.70	3 p	8679* Tingstäde	6.65	0.70	1+
8360 1990 FD ₁	8.094	0.26	3	8682 Kräklingbo	7.566	0.48	2 W
8361 1990 JN ₁	3.601	0.75	2 W	8691 Etsuko	9.6	0.09	1
8369* Miyata	2.7368	0.22-0.34	3	8692 1992 WH	4.698	0.20	2 W
8370 Vanlindt	6.250	0.39	2 W	8694 1993 CO	6.069	0.32	3
8373 Stephengould	4.435	0.24-0.39	3 B	8700 Gevaert	4.905	0.47-0.59	2 W
8376* 1992 OZ ₉	16.763	0.39	2+	8709 Kadlu	50.6	>0.40	2 T-
8378 Sweeney	>12.	>0.05	1	8721 AMOS	29.131	0.29	2 W
8380 Tooting	36.929	0.56-0.72	3	8722* Schirra	2.30526	0.15-0.20	3
8382 Mann	67.133	0.48	2 W	8736 Shigehisa	80.5	1.2	3 TO
8389 1993 FT ₃₇	9.966	0.67	2 W	8743 Këneke	2.769	0.05	2
8390 1993 FE ₄₈	4.437	0.28	2 W	8744 Cilla	5.199	0.55	2 W
8392 1993 OP	>6.	>0.03	1	8752 Flammeus	22.865	0.59	2 W
8393 Tetsumasakamoto	6.315	0.47	2 W	8756 Mollissima	4.421	0.23	2 W
8394 1993 TM ₁₂	212.810	0.53	2 W	8773 Torquilla	15.939	0.10	2 W
8395 Rembaut			P	8776 Campestris	9.298	0.35-0.38	2 W
8396 1993 UR ₂	6.425	0.16	2 W	8778 1931 TD ₃	3.833	0.51	2 W
8397 Chiakitanaka	3.90	0.32	3-	8781 Yurka	5.879	0.69	2 W
8400 Tomizo	3.04983	0.14	2+	8783* Gopasyuk	5.6951	0.63-0.80	3
8404 1995 AN	3.202	0.06-0.16	2+	8788 Labeyrie	12.571	0.50	2 W
8405 Asbolus	8.9351	0.32-0.55	3	8789 1978 VZ ₇	5.277	0.40	2 W
8417 Lancetaylor	3.5862	0.46-0.8	3-	8794 Joepatterson	2.864	0.17	3
8419 Terumikazumi	4.6	0.16	1	8796 Sonnett	5.20	0.41	1
8423 Macao	5.78	0.29	2 W	8802 Negley	5.764	0.51	2 W
8426 1997 ST	5.13	0.42	2 W	8807 Schenk	307.588	0.44	2 W
8427 1997 TH ₁₇	3.528	0.22	2 W	8819 Chrisbondi	3.026	0.25	2 W
8432 Tamakasuga	12.08	0.23	1 DAW	8825 1988 MF	40.651	0.95	3-
8441 Lapponica	3.27	0.29-0.50	3-	8828 1988 RC ₇	12.929	0.33	3-
8443 Svecica	20.998	0.62-0.65	3	8829 Buczkowski	13.105	0.33	2 W
8444 Popovich	54.867	0.71-1.15	3-	8833 Acer	27.42	0.35	1 DAW
8449 Maslovets	230.709	0.65	2 W	8838 1989 UW ₂	42.671	0.43	2 W
8454 Micheleferrero	6.727	0.36	2 W	8844 1990 QR ₂	8.786	0.37	2 W
8457 Billgolisch	135.707	0.19	2 W	8847 Huch	5.75	0.36	2 W
8463 Naomimurdoch	3.74	0.17	2 A	8849 Brighton	10.727	0.40-0.41	2
8474 Rettig	30.54	0.34-0.93	3 B	8858 Cornus	6.180	0.56	2 W
8475 Vsevoivanov		0.64	W	8859 1991 PQ ₁₁	3.90	0.62-0.69	3- W
8479 1987 HD ₂	2.67939	0.13-0.18	3-	8860 Rohloff	18.8411		p N
8484* 1988 VM ₂	2.8496	0.15-0.16	3-	8862 Takayukiota	3.2549	0.26	3-
8485 Satoru	362.772	0.58	2 W	8866 Tanegashima	13.525	0.27-0.48	2+
8487 1989 SQ	9.4323	0.25-0.35	3	8872 Ebum	10.547	0.30	2 W
8494 Edpatvega	4.32	0.18	2 W	8878 1993 FN ₁₆	19.875	0.60	2 W
8497 1990 RE ₇	4.40	0.60	3-	8881 Prialnik	10.698	0.06	1 W
8502 Bauhaus	3.064	0.34	2 W	8882 Sakaetamura	4.8742	0.32-0.66	3-
8505 1990 YK	3.133	0.08	1 W	8885 Sette	212.	0.5	2- TO
8509 1991 FV ₂	9.010	0.33-0.79	2 W	8886 Elaeagnus	10.184	0.60	2 W
8523 Bouillabaisse	4.4	0.30	2	8887 Scheeres	2.9827	0.18	3
8532 1992 YW ₃	>30.	>0.35	2	8893 1995 KZ	22.27	0.69	3
8535 Pellesvanslös	5.695	0.70-0.76	2 W	8895 Nha		0.1	
8538 Gammelmaja	3.089	0.37	2 W	8900 AAVSO	3.837	0.43	2 W
8542 1993 VB ₂	4.995	0.10	1 W	8901 1995 UJ ₄	8.702	0.25	2 W
8548 Sumizihara	3.192	0.10	2 W	8906 Yano	6.744	0.11-0.14	2 W

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8908	1995 WY ₆	3.026	0.37-0.48	2	W	9231	Shimaken	10.917	0.55-0.67	3	
8910	1995 WV ₄₂	10.56	0.49	2	W	9233	Itagijun	110.95	0.6	2	TO
8911	Kawaguchijun	6.120	0.94	2	W	9234	Matsumototaku	6.05	0.89	2+	W
8914	Nickjames	5.652	0.17	2	W	9237	1997 GY ₇	4.072	0.56-0.61	2	W
8920	1996 VZ ₂₉	4.696	1.09	2	W	9243	1998 FF ₆₈	4.2	0.11-0.17	2	W
8927	Ryojiro	7.986	0.47	2	W	9247	1998 MO ₁₉	11.479	0.27-0.35	3	
8928	1996 YH ₂	2.5689	0.07	2	A	9260	Edwardolson	3.0852	0.11		NB
8941	Junsaito	14.014	0.42-0.46	2	W	9262	Bordovitsyna	9.	0.08	2	
8942	Takagi	332.194	0.44	2	W	9272	Liseleje	19.389	0.13	2	W
8951	1997 FO	3.770	0.61	2	W	9274	Amylovell	5.518	0.59-0.71	2	W
8952	ODAS	3.00	0.36	2	W	9283	Martinelvis	3.460	0.07	1	W
8954	Baral	5.141	0.27	2	W	9286	Patricktaylor	3.86	0.20	2	
8957	Koujounotsuki	87.224	0.53	2	W	9295	Donaldyoung	5.13	0.12	2-	W
8958	Stargazer	15.991	0.62		N	9297	Marchuk	18.09	0.16	2	
8965	Citrinella	9.082	0.32	2	W	9298	Geake	38.29	0.78	2	
8967	Calandra	5.243	0.58	2	W	9302	1985 TB ₃	3.059	0.25	2	W
8973	Pratincola	5.85	0.15	2-	W	9306	Pittosporum	3.791	0.18	2	W
8976	Leucura	5.54	0.40	3	W	9319	Hartzell		0.66		W
8978	Barbatus	7.257	0.15-0.16	2	W	9321	Alexkonopliv	3.427	0.19	2	W
8987	1978 VD ₄	15.323	0.34	2	W	9323	Hirohisasato	269.156	0.53	2	W
8991	Solidarity	5.239	0.19	2	W	9324	1989 CH ₄	6.558	0.16	2	W
8992	Magnanimity	20.719	0.25	3		9325	Stonehenge	4.607	0.16	2	W
8993	Ingstad	3.0276	0.27	3		9334	Moesta	5.848	0.49	2	W
8994*	Kashkashian	11.761	0.24	3-		9335	1991 AA ₁	500.552	0.88	2	W
9000	Hal	908.	0.9	2+	TO	9337	1991 FO ₁	3.2	0.10-0.13	2	W
9004	Peekaydee	32.676	0.42	2	W	9340	Williamholden	202.112	0.86	2	W
9005	Sidorova	14.084	0.42	2	W	9344	Klopstock	5.842	0.38	2	W
9021	Fagus	5.065	0.71-0.73	3		9347	1991 RY ₂₁	4.028	0.35-0.45	2	
9023	Mnesthus	30.66	0.23	2+		9356	Elineke	2.750	0.21	3-	
9030	1989 UX ₅	6.30	0.60	3-		9359	Fleringe	21.508	0.50	2	W
9033*	Kawane	5.7656	0.45	3		9362	Miyajima	2.179	0.07	1	W
9036	1990 SJ ₁₆	2.57	0.47-0.53	2	W	9364	Clusius	8.9155	0.52-1.06	3	
9039	1990 WB ₄	11.170	0.08	1	W	9368	Esashi	2.9183	0.17-0.20	3	
9043	1991 EJ ₄	6.026	0.57	2	W	9369	1993 DB ₁	54.335	0.17-0.43	2	W
9047	1991 QF	4.476	0.72	2	W	9372	Vamlingbo	5.652	0.08	1	W
9050	1991 RF ₂₉	3.507	0.15	2	W	9375	Omodaka	3.925	0.55	2	W
9053	Hamamelis	10.386	0.29-0.33	2	W	9387	Tweedledee	3.534	0.09-0.15	3	
9054	Hippocastanum	193.552	0.38	2	W	9392	Cavailleon	5.524	0.36	2	W
9056	Piskunov	2.905	0.15	2	W	9393	Apta	3.286	0.23	2	W
9060	To yokawa	3.6804	0.08	3-		9395	Saint Michel	3.3342	0.12	2	
9065	1993 FN ₁	3.064	0.19-0.19	2	W	9400*	1994 TW ₁	97.1	0.47-1.04	2	T?
9068	1993 OD	3.4073	0.19-0.20	3		9401	1994 TS ₃	3.693	0.29	2	W
9069	Hovland	4.217	0.08-0.11	3	B	9411	Hitomiyamoto	5.118	0.08	1	W
9074*	Yosuke yoshida	166.297	0.8 -1.03	2		9413	Eichendorff	13.723	0.73	2	W
9077	Ildo	15.323	0.43	2	W	9414*	Masamimurakami	15.574	0.24-0.29	3-	
9078	1994 PB ₂	45.65	0.44	2	W	9421	Violilla	4.605	0.35	2	W
9083	Ramboehm	10.199	0.14	3		9422	Kuboniwa	5.475	0.19	2	W
9084	Achrostou	8.84	0.09	2+		9423	Abt	3.281	0.30-0.33	3	
9090	Chirostmondai	5.6477	0.17	2+		9424	Hiroshinishiyama	3.478	0.61	2	W
9091	Ishidatakaki	10.6	0.97	2-		9430	Erichthonios	26.264	0.36-0.59	2	W
9098	Toshihiko	6.19	0.13	1+	W	9431	1996 PS ₁		0.91		I
9105	Matsumura	4.769	1.00	3	HW	9437	Hironari	4.305	0.10	1	W
9111	Matarazzo	>60.	0.3	2-		9440	1997 FZ ₁	5.19635			N
9115	Battisti	5.023	0.07	1	W	9443	1997 HR ₉	3.49	0.29	2	W
9117	Aude	2.8156	0.17-0.22	3		9450	1998 BT ₁	9.012	0.59	2	W
9120	1998 DR ₈	14.750	0.11-0.12	3		9457	1998 FB ₇₅	23.069	0.36-0.46	2	W
9121	Stefanovalentini	11.84	0.14	2		9458	1998 FF ₉₇	4.217	0.37	2	W
9122	Hunten	7.920	0.27	2	W	9462	1998 HC ₃₇	3.432	0.30	2	W
9131	1998 JV	26.839	0.67	2	W	9465	1998 HJ ₁₂₁	5.802	0.64-0.65	2+	
9132	Walteranderson	6.268	0.72	2	W	9484	Wanambi	18.597	0.76	2	W
9136	Lalande	5.75	0.13	2	W	9485	Uluru	4.305	0.39	2	W
9140	Deni	25.270	0.52	2	W	9488	Huia	105.273	0.80	2	W
9142	Rhesus	7.325	0.24-0.27	2	W	9507	Gottfried	91.905	0.85	2	W
9143	Burkhead		0.20		N	9512	Feijunlong	2.754	0.21	2	W
9145	Shustov	3.812	0.29	2	W	9522	Schlichting	6.274	0.29	2	W
9148	Boriszaitsev	8.124	0.20-0.23	3		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	21.995	0.07	1	W
9175	Graun	25.8	0.16	2+		9542	Eryan	2.79473			N
9182	1991 NB ₄	5.416	0.40	2+		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+		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	
9223	Leifandersson	3.758	0.33	2	W	9566	Rykhlova	8.800	0.56-0.95	2	
9227	Ashida	3.970	0.34	2	W	9572	1988 RS ₆	23.230	0.53	2	W
9228	Nakahiroshi	130.273	0.25	2	W	9577	Gropius	27.899	0.76	2	W

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9578 Klyazma	5.42	0.66	2 W	9916 Kibirev	15.171	0.36-0.45	2 W
9580 Tarumi	9.052	0.32	2 W	9921 Rubincam	8.01	0.31-0.33	3- W
9583 1990 HL ₁	2.6409	0.14	3-	9927 Tyutchev	2.51	0.15	2 W
9584 Louchheim	41.0	>0.3	2 T0	9928 1981 WE ₉	18.3980	0.25-0.41	2+ W
9586 1990 SG ₁₁	5.206	0.28	2 W	9931 Herbhauptman	4.44	0.15-0.21	2 W
9587 Bonpland	2.206	0.11	2 W	9936 Al-Biruni	10.704	0.14	2 W
9601 1991 UE ₃	24.	>0.03	1 W	9942 1989 TM ₁	3.071	0.08	1 W
9604 Bellevanzuylen	8.187	0.51	2 W	9948 1990 QB ₂	3.53	0.60-0.77	3 W
9611* Anouck	>48.	>0.25	W	9950* ESA	6.712	0.44-0.89	3 W
9616 1993 FR ₃	5.018	0.32-0.53	2 W	9963 Sandage	4.65053	0.43-0.56	3-
9617 Grahamchapman	2.2856	0.10-0.11	3 B	9965 GNU	39.745	0.36-0.42	2 W
9620 Ericidle	3.367	0.67	2 W	9969 Braille	226.4	0.9	2 p T0
9622 Terryjones	8.938	0.69	2 W	9971 Ishihara	6.715	1.06	2 p s
9626 Stanley	5.776	0.41	2 W	9972* Minoruoda	3.4221	0.11	3 B
9630 Castellion	2.56	0.10	2 W	9983 Rickfienberg	5.2963	1.30	3 p
9635 1993 XS	4.138	0.10	2 W	9991 Anežka	4.469	0.24	2 W
9641 Demazière	9.912	0.90	2 W	9992 1997 TG ₁₉	5.7402	0.27-0.42	3 W
9642 Takatahiro	5.524	0.58	2 W	9994 Grotius	9.219	0.27	2 W
9652 1996 AF ₂	4.385	0.10-0.16	2 W	9999 Wiles	3.482	0.13-0.15	2 W
9655 Yaburanger	6.684	0.10-0.14	2 W	10001 Palermo	213.368	0.97	2 W
9661 Hohmann	5.920	0.32	2 W	10019 Wesleyfraser	245.062	0.43	2 W
9671 Hemera	2.53143	0.12-0.17	3 W	10020 Bagenal	2.349	0.13	2 W
9672 Rosenbergerezek	10.67	0.38	2 W	10022 Zubov	4.564	0.14	2 W
9694 Lycomedes	18.2	0.38-0.55	2 W	10024 Marthahazen	3.316	0.08	1 W
9699 Baumhauer	16.7	0.15	1 W	10025 Rauer	4.451	0.48-0.51	2 W
9708* Gouka	14.2	0.44	2 W	10026 1980 RE ₁	9.960	0.31	2 W
9712 Nauplius	19.41	0.48	2 W	10033 Bodewits	11.880	0.42	2 W
9713 Oceax	22.00	0.24	2+	10041 Parkinson	2.56428	0.12-0.30	3 W
9716 Severina	2.9669	0.26	3 W	10042 Budstewart	3.695	0.33	3 W
9718 Gerbefremov	6.249	0.17	2 W	10046 Creighton	6.566	0.46-0.68	3 W
9721 Doty	4.108	0.15	2 W	10052 1987 SM ₁₂	4.068	0.24	2 W
9723 Binyang	12.40	0.57-1.11	2 W	10057 L'Obel	7.154	0.57	2 W
9726 Verbiscer	5.551	0.27-0.28	2 W	10060 Amymilne	2.727	0.02	2 W
9731 1982 JD ₁	2.833	0.16	3-	10062 1988 RV ₄	3.545	0.06	1 W
9732 Juchnovski	7.572	0.14	2 W	10064 Hirosetamotsu	8.052	0.56-0.74	3 p
9737 Dudarova	14.3158	0.12-0.17	2+	10091 Bandaisan	3.23	0.25	2 W
9738 1987 DF ₆	3.165	0.15	2 W	10094 Eijikato	7.66	0.13	2 W
9739 Powell	109.	0.09-0.40	2 T?	10101 Fourier	6.849	0.34	2 W
9750 1989 NE ₁	65.356	0.51	2 W	10104 Hoburgsgubben	9.40	0.74	2- W
9753 1990 QL ₃	4.356	0.20	2 W	10113 1992 PX ₂	6.768	0.68	2 W
9757 Felixdejager	3.11	0.18	2 W	10115 1992 SK	7.319	0.50-1.03	3 p
9770 Discovery	3.947	0.70	2 W	10119 Remarque	6.811	0.47-0.50	2 W
9772 1993 MB	5.3450	0.17	3 B?	10121 Arzamas	12.1	0.60-0.70	2 W
9773 1993 MG ₁	2.74595	0.24-0.35	3 W	10123 Fideoja	2.8657	0.06	3 B
9774 Annjudge	10.51	0.20	2 W	10125 Stenkyrka	5.597	0.43	2 W
9780 Bandersnatch	7.06329	0.16-0.34	3-	10132* Lummelunda	2.5099	0.11	NB
9782 Edo	4.085	0.67	3 W	10133 1993 GC ₁	5.547	0.17	2+
9783 Tensho-kan	3.0111	0.13	3 B	10134 1993 HL ₆	5.5348	0.25-0.26	3 W
9785 Senjikan	26.743	0.23	2 W	10136 Gauguin	9.09	0.13	1 W
9790 1995 OK ₈	8.01	0.21	2+	10142 Sakka	3.35	0.28-0.40	3 W
9792 Nonodakesan	6.336	0.26-0.28	2 W	10143 Kamogawa		0.09	N
9795 Deprez	4.12	0.34	2 W	10150* 1994 PN	2.965	0.20-0.56	2+ B?
9799 1996 RJ	21.52	0.16	2+	10154 Tanuki	2.886	0.12	2 W
9801 1997 FX ₃	2.889	0.12	3 W	10159 Tokara	5.531	0.58	3-
9805 1997 NZ	16.860	0.23	2 W	10166 Takarajima	5.3712	0.62-0.84	3 W
9807* 1997 SJ ₄	346.	0.40-0.43	2 HW	10171 Takaotengu	8.245	0.28-0.33	2+
9826 Ehrenfreund	3.748	0.37	2 W	10179 Ishigaki	3.34	0.60	3-
9829* Murillo	21.754	0.81	3 W	10181 Davidacomba	4.521	0.76	2 W
9837 Jerryhorow	17.40	0.70-0.73	2+	10182* Junkbiwaki	4.3081	0.08	2+
9838 Falz-Fein	38.428	0.31	2 W	10187 1996 JV	21.676	0.10-0.20	2 A
9844 Otani	10.073	0.18	2 W	10188 Yasuoyoneda	2.74840	0.12	3-
9846 1990 OS ₁	18.546	0.09	1 W	10191 1996 NU ₁	14.276	0.48	2 W
9847 1990 QJ ₅	2.781	0.19-0.27	2 W	10199 Chariklo	7.004	0.11	2+
9849 1990 RF ₂	2.608	0.12	2 W	10207 Comeniana	12.84	0.10	2 W
9854 Karlheinz	4.688	0.56	3-	10208 Germanicus	3.3484	0.10-0.13	3 B
9855 1991 CU	15.962	0.08	1 W	10212 1997 RA ₇	9.154	0.88-1.05	2 W
9856 1991 EE	3.045	0.14	3 W	10217 Richardcook	23.33	0.45	3-
9858 1991 OL ₁	21.208	0.60	2 W	10222 Klotz	29.	0.11	1 W
9864 1991 RT ₁₇	4.558	0.12	2 W	10223 Zashikiwarashi	7.104	0.56	2 W
9865* Akiraohata	2.96	0.08-0.09	2+	10224 Hisashi	8.257	0.42-0.64	2 W
9866 Kanaimitsu	3.21	0.25	2 W	10227 Izanami	2.920	0.16	2 A
9872 Solf	11.598	0.54	2 W	10231 1997 WQ ₃₇	3.363	0.20-0.21	2 W
9873 1992 GH	2.9257	0.20-0.34	3 W	10237 Adzic	2.338	0.14	2 W
9874 1993 FG ₂₃	6.803	0.18	2 W	10240 1998 VW ₃₄	18.872	0.08	1 W
9884 Příbram	13.916	0.38-0.41	2 W	10241 Miličević	3.87	0.34	2 W
9888 1995 CD	4.960	0.27	2 W	10247 Amphiarao	34.26	0.55	2 W
9890 1995 SY ₂	12.625	0.77	2 W	10248 Fichtelgebirge	45.798	1.00	2 W
9900 Lull	183.319	0.88	2 W	10249 Harz	3.631	0.47-0.54	2 W
9910 Vogelweide	118.905	0.67-0.74	2 W	10252 Heidigraf		0.56	W
9912 Donizetti	6.228	0.19-0.32	2 W	10259 Osipovyurij	6.356	0.30-0.32	3 W

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Planet	Period	Variation	Note	Planet	Period	Variation	Note
10261 Nikdollezhal'	16.747	0.06-0.09	2	10589 1996 OM ₂	2.425	0.08	1 W
10269 Tusi	10.81	0.15	1 HW	10591 Caverni	66.375	0.68	2 W
10277 Micheli	15.334	0.32	2 W	10592 1996 PN ₅	8.069	0.23	2 W
10281 Libourel	7.572	0.70	2 p	10597 1996 TR ₁₀	6.59667	0.28-0.32	3
10291 1985 UT	55.354	0.58	2 W	10604 Susanoo	4.313	0.26	2 W
10301 Kataoka	5.5610	0.22	3	10611 Yanjici	13.637	0.18	2 W
10302 1989 ML	19.	1.00-1.00	3 T0	10617 Takumi	2.756	0.15-0.17	3-
10305 Grignard	3.265	0.24	2 W	10621 1997 XN	4.921	0.31	2 W
10306 Pagnol	4.79	0.27	2+	10623 1997 YP ₇	44.094	0.58-0.64	2 W
10310 Delacroix	44.517	0.53	2 W	10627 Ookuninushi	4.33499		2 p Ns
10313 Vanessa-Mae	2.82	0.38	2-	10629 1998 BK ₁₁	3.950	0.21	2 W
10315 Brewster	5.190	0.45	2 W	10632 1998 CV ₁	9.13	0.37	2-
10320 Reiland	5.92	0.12	2	10636* 1998 QK ₅₆	9.876	0.32-0.53	3
10321 Rampo	5.2282	0.51-0.69	3	10637 Heimlich	10.743	0.35	2 W
10328 1991 GC ₁	15.357	0.72	3	10642 Charmaine	>30.	>0.1	2-
10338 1991 RB ₁₁	10.55	0.73	2 W	10645 Brač	2.78592	0.31	3-
10339 1991 RK ₁₇	7.90	0.56-0.63	2 W	10646 Machielalberts	3.058	0.29	2 W
10347 Murom	35.3	0.45	2-	10650 Houtman	33.896	0.89	2 W
10348 Poelchau	3.31	0.17	2 W	10651 van Linschoten	4.823	0.53	2 W
10349 1992 LN	2.867	0.09	1 W	10655 Pietkeyser	94.050	0.86	2 W
10357 1993 SL ₃	2.762	0.05	2-	10656 Albrecht	14.490	0.35	2 W
10359 1993 TU ₃₆	2.411	0.18	2 W	10662 Peterwisse	3.072	0.15	1
10370 Hylonome		<0.04		10666 Feldberg	3.4947	0.18	3-
10373 MacRobert	9.42	1.10	1 DAW	10672 Kostyukova	78.468	0.08	1 W
10374 Etampes	352.974	0.23	2 W	10673 Berezhnoy	5.4	0.30	2 W
10376 Chiarini	16.160	0.73	2 W	10681 Khture			2 HNW
10377 Kilimanjaro	3.66	0.13	2 W	10683 Carter	75.3	1.00	2 HW
10378 Ingmarbergman	4.504	0.12-0.14	2 W	10684 Babkina	404.680	0.74	2 W
10389 Robmanning	2.75	0.10	1	10688 Haghhighipour	9.4	0.25	2+
10390 Lenka	129.982	0.09	1 W	10694 Lacerda	7.188	0.17	2 W
10395 Jirkahorn	3.670	0.13	2 W	10701 1981 PF	72.485	0.56	2 W
10397 1997 SX ₃₃	3.33	0.14	2 W	10703 1981 QU ₃	10.885	0.23	2 W
10398 1997 UP ₈	5.027	0.66	3	10704* 1981 RQ ₁	7.507	0.70	3
10399 Nishiharima	6.50	0.24	2-	10715 Nagler	2.541	0.19	3
10404 McCall	274.895	0.84	2 W	10719 Andamar	2.868	0.28-0.38	2 W
10415 Mali Lošinj	240.512	0.48	2 W	10721* Tuterov	3.0675	0.27	3
10417 1998 WA ₂₃	3.995	0.22	2 W	10731 1988 BL ₃	28.02	0.23-0.41	2 A
10420 1998 YB ₁₂	4.907	0.18	2 W	10737 Brück	3.22	0.08	2+
10421* Dalmatin	2.997	0.23	2+	10740 Fallersleben	5.656	0.53	2 W
10430 Martschmidt	15.577	0.61	2 W	10746 Mühlhausen	11.116	0.27	2 W
10431 Pottasch	7.267	0.32	2 W	10749 Musäus	5.040	0.29	2 W
10443 van der Pol	3.34501	0.15-0.16	2	10750 1989 PT	2.010	0.08	1 W
10449 Takuma	7.33	0.46	2 W	10762 von Laue	4.71	0.20-0.21	3-
10450* Girard	4.1977	0.33	3	10765 1990 UZ	4.378	0.17	2+
10452 Zuev	7.88202	0.38-0.39	3	10772* 1990 YM	68.98	1.05-1.3	3- p T?
10463 Bannister	4.791	0.29	2 W	10779 1991 LW	18.3	0.66-0.72	2
10464 Jessie	4.03	0.22	2 W	10783 1991 RB ₉	7.334	0.26	3
10465 Olkin	7.4403	0.44-0.50	2 N	10792 Ecuador	39.822	0.64-0.90	2 W
10472 Santana-Ros	5.98599		2 p Ns	10793 Quito	11.299	0.28	2 W
10473 Thirouin	3.749	0.47	2 W	10816 1993 FZ ₃₅	14.12	0.47	2 W
10475 Maxpoilâne	3.1	0.20	1	10817 1993 FR ₄₄	6.322	0.71	2 W
10476 Los Molinos	267.906	0.33	2 W	10819 Mahakala			2 HNW
10480 Jennyblue	6.019	0.57	2 W	10822 Yasunori	21.522	0.10	1 W
10484 Hecht	5.508	0.17-0.22	3	10826 1993 SK ₁₆	13.835	0.61	3- p
10490 1985 VL	3.915	0.19	2 W	10830 Desforges	8.804	0.69	2 W
10492 1986 QZ ₁	36.338	0.46	2 W	10841 Ericforbes	4.908	0.95	3-
10496* 1986 RK	9.876	0.20-0.31	3	10843 1994 YF ₂	3.0556	0.10	3-
10497 1986 RQ	5.3283	0.19	3	10863 Oye	6.930	0.10	1 W
10498 Bobgent	3.45556	0.22-0.29	3 B?	10867 Lima	4.526	0.35	2 W
10500 Nishi-koen	44.552	0.27	2 W	10883 1996 VU ₅	5.415	0.30-0.33	2 W
10502 Armaghobbs	24.978	0.51	2	10907 Savalle	6.082	0.07	2-
10504 Doga	2.951	0.08	1 W	10909 1997 XB ₁₀	3.2483	0.40	3-
10509 Heinrichkayser	6.564	0.22	2 W	10914 Tucker	8.07	0.16	1+
10513 1989 TJ ₁₄	8.335	0.39-0.49	2 W	10917 1998 AN	3.261	0.30	2 W
10518 1990 MC	6.613	0.08	2	10919 Pepikzicha	11.002	0.41	2 W
10519 1990 RO ₂	17.011	0.56-0.68	2 W	10923 1998 BM ₁₂	10.942	0.64	2 W
10521 1990 RW ₇	7.751	0.67	2 W	10927 Vaucluse	5.482	0.25	2 W
10528 1990 VX ₃	3.677	0.36	2 W	10936* 1998 FN ₁₁	25.70	0.28-0.40	2 A
10531 1991 GB ₁	55.1	0.21	2+ T0	10938 Lorenzaleyv	84.99	0.14	2 W
10544 Hörsnebara	2.469	0.09	1 W	10939 1999 CJ ₁₉	587.826	0.61	2 W
10548 1992 PJ ₂	4.01838	0.34	3	10943 Brunier		0.97	2 W
10551 Göteborg	335.346	0.70	2 W	10944 1999 FJ ₂₆	12.578	0.22-0.24	2 W
10552 Stockholm	3.76	0.14	2 W	10947 Kaiserstuhl	3.149	0.20-0.21	2 W
10553 Stenkumla	3.75	0.39	2 W	10960 Gran Sasso	6.518	0.64	2 W
10559 Yukihisa	5.797	0.45	2 W	10973 Thomasreiter	3.910	0.30	2 W
10564 1993 XQ ₂	3.490	0.29	2 W	10988 Feinstein	2.6723	0.11	3-
10565 1994 AT ₁		0.17	2 N	10989* Dolios	26.101	0.32-0.36	2 HW
10570 Shibayasu	4.987	0.98	2 W	10997 Gahm	3.207	0.50-0.58	2 W
10576 1995 GF	5.004	0.10	1 W	11001 Andrewulff	3.9638	0.14	3 B?
10578 1995 LH	8.861	0.18	2+	11003* Andronov	4.5223	0.19	2+

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Planet	Period	Variation	Note	Planet	Period	Variation	Note
11017 Billputnam	6.749	0.42	3	11393 1998 XJ ₅₃	5.779	0.36	2 W
11027 Astaf ^{ev}	4.87	0.08	2- W	11395 1998 XN ₇₇	17.383	0.08-0.14	3-
11031 1988 RC ₅	3.408	0.32	2 W	11397 1998 XX ₉₃	12.70	0.10-0.25	2+
11035 1988 VQ ₃	3.443	0.16	2 W	11398* 1998 YP ₁₁	38.60	0.20-0.46	3 T-
11040 Wundt			HNW	11404 Wittig	13.424	0.69	2 W
11048 1990 QZ ₅	5.9830	0.24	2+	11405 1999 CV ₃	6.504	0.50-0.89	3
11052 1990 WM	5.06904		p N	11410 1999 FU ₃₄	17.818	0.35	2 W
11054 1991 FA	2.57223	0.04-0.15	3	11424 1999 LZ ₂₄	2.925	0.08-0.13	3
11058 1991 PN ₁₀	6.517	0.39-0.78	3 p	11429 Demodokus	50.16	0.18	2
11063 Poynting	7.926	0.53-0.56	3	11430 Lodewijkberg			HNW
11064 Dogen	4.163	0.48-0.60	3-	11432 Kerkhoven			HNW
11065 1991 XE ₂	>8.	>0.1	1+	11436 1969 QR	2.65	0.27	2
11066 Sigurd	8.4958	0.97-1.15	3	11437 Cardalda	2.926	0.31	3
11072 Hiraoka	4.7512	0.23-0.36	3	11438 Zeldovich	5.2	0.12	2-
11074 Kuniwake	2.622	0.27	2 W	11440 Massironi	5.782	0.30	2 W
11076 1992 UR	8.504	0.21	2 W	11441 Anadiego	3.179	0.11	2
11077 1992 WB ₂	8.813	1.27	2 W	11443 1977 CP	3.367	0.07	1 W
11087* Yamasakimakoto	4.5369	0.73	3	11450 Shearer	5.422	0.45	2 W
11088 1993 UN	58.524	0.73	2 W	11452 1980 KE	4.239	0.10	1 W
11089* 1994 CS ₈	7.72	0.38-0.54	3	11454 Mariomelita	24.660	0.20	2 W
11094 Cuba	10.0	0.48	2- W	11455 Richardstarr	17.414	0.40	2 W
11095 Havana	9.836	0.54	2 W	11457 Hitomikobayashi	9.18	0.26	1
11099 Sonodamasaki	7.248	0.09	1 W	11463 Petrpokorny	5.319	0.13	2 W
11100 Lai	>5.	>0.15	2	11474 1982 SM ₂	1917.221	0.04	1 W
11104 Airion	20.416	0.09	1 W	11478 1985 CD	5.260	0.10	2 W
11107 Hakkoda	5.479	0.26	2 W	11479 1986 EP ₅	6.91	0.50	2 W
11108 Hachimantai	3.352	0.40	2 W	11482 1988 BW	7.136	0.64	2 W
11116 1996 EK	4.4017	0.08-0.10	3- B?	11488 1988 RM ₁₁	15.92	0.16	2
11118 Modra	27.12	0.42-0.53	3	11496 Grass	3.5	0.20	1 DW
11120 Pancaldi	10.78	0.48	1+ DAW	11500 Tomaiyowit	73.0	0.5	1 NTO
11127* Hagi	3.9157	0.45	3	11503 1990 BF	5.191	0.28	2 W
11129 Hayachine	17.6	0.22	2-	11507 Danpascu	2.685	0.09	1 W
11131 1996 VO ₃₀	2.7890	0.12	3	11508 Stolte	3.049	0.46	2 W
11133 Kumotori	4.634	0.33	2 W	11509 Thersilochos	17.367	0.27-0.38	3
11141 Jindrawalter	5.89	0.65	2 W	11512 1991 AB ₂	2.933	0.20	2+
11148 Einhardress	7.77240		p Ns	11515 Oshijyo	3.34	0.37-0.50	2+
11149 Tateshina	12.85	0.42	3-	11527 1991 VU ₄	4.094	0.44-0.45	2 W
11152 Oomine	2.622	0.10	3	11528 Mie	7.202	0.38	2 W
11155 Kinpu	2.208	0.06	1 W	11542 Solikamsk	13.428	0.49	3
11173 Jayanderson	63.511	0.09	1 W	11543 1992 UN ₂	26.828	0.67	2 W
11174 Carandrews	4.51	0.75-0.83	2 W	11544 1992 UD ₃	14.464	0.36	2 W
11187 Richoliver	14.55	0.45	2 W	11547 Griesser	3.34	0.16	2 W
11202 Teddunham	7.414	0.08	1 W	11549 1992 YY	2.671	0.08	2 W
11211* 1999 GD ₂₄	23.35	0.15	2	11551 1993 BR ₃	13.464	0.27	2 W
11213* 1999 HF ₈	5.621	0.12	2 3	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	1.19	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	0.28-0.31	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-	11697* Estrella	2.805	0.33	2+
11279 1989 TC	4.003	0.13-0.16	3-	11700 1998 FT ₁₁₅	5.52303		p N
11280 Sakurai	2.630	0.05	1 W	11705 1998 GN ₇	3.7187	0.32-0.45	3
11283 1989 UX ₄	5.68	0.39	2 W	11706 Rijeka	12.930	0.23	2 W
11284 Belenus	5.43	0.45	2+	11709 Eudoxos	2.64	0.24	2-
11286 1990 RO ₈	14.806	0.44-0.60	2 W	11716 Amahartman	2.53	0.27	2 W
11288 Okunohosomichi	3.687	0.32	2 W	11718 Hayward	6.063	0.30	2 W
11304 Cowra	95.7	0.40-1.0	2+ T0	11719 Hicklen	20.553	0.24	2 W
11310 1993 SB ₁₅	11.134	0.63	2 W	11723 1998 HT ₁₂₅	4.118	0.52	2 W
11318 1994 XZ ₄	2.977	0.33	2+	11727 Sweet	3.761	0.27	2 W
11321 Tosimatamoto	7.80	0.25	2-	11728 Einer	12.92	0.19-0.19	2
11333 Forman	3.00	0.12	2 W	11735 1998 KN ₅₆	8.535	0.25	2 W
11351* Leucus	445.7	0.53-0.7	2 T0	11737 1998 QL ₂₄	184.676	0.25	2 W
11352 Koldewey	6.32	0.47	2 W	11745 1999 NH ₃	3.280	0.16-0.17	3
11372 1998 QP ₄₁	3.17	0.14	2 W	11749 1999 NZ ₁₀	27.540	0.21	2 W
11375 1998 QB ₇₄	8.00	0.43	2 W	11752 1999 OU ₃	5.122	0.30	2 W
11381 1998 SZ ₁₁₅	3.054	0.20	2 W	11756 Geneparker	10.571	0.30-0.30	2 W
11386* 1998 TA ₁₈	15.959	0.49-0.84	3	11759 Sunyaev	3.720	0.18	2 W
11388 1998 VU ₄	28.74	0.08	2+	11762 Vogel	6.218	0.53	2 W

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11763 Deslandres	3.60	0.61	2 W	12161 Avienius	3.13	0.11	2 W
11771 Maestlin	4.098	0.07	1 W	12168 Polko	9.4071	1.44	3
11773 Schouten	5.540	0.27	2 W	12186 Mitukurigen	11.197	0.29	2 W
11774 Jerne	648.120	0.68	2 W	12190 Sarkisov	2.684	0.18	2 W
11775 Köhler	8.21	0.37	2 W	12193* 1979 EL	7.5766	0.35-0.41	2+
11776* Milstein	3.807	0.57-0.67	3	12205 1981 EZ ₂₆	1.16	0.14	1
11780 Thunder Bay	295.	0.70	3 T0	12207 1981 EU ₂₈	4.836	0.26	3
11785 Migaic	20.716	0.30	2 W	12211 Arnoschmidt	3.956	0.37	2 W
11786 Bakhchivandji	8.427	0.87	2 W	12214 Miroschnikov	9.960	0.24	2 W
11787* Baumanka	7.593	0.23	3-	12220 Semenchur	5.992	0.57-0.64	2 W
11789 Kempowski	48.6	>0.45	2 AT0	12228 1985 TZ ₃			HNW
11801 Frigeri	2.127	0.07	1 W	12236 1987 DD ₆	6.06	0.95	1 DAW
11817 Oguri	43.263	0.64-0.67	2 W	12238 Actor	7.284	0.29-0.33	2
11820 Mikiyasato	6.419	0.44	2 W	12241 Lefort	3.153	0.49	2 W
11824 Alpaidze	4.116	0.05	1 W	12245 1988 RM ₇	9.604	0.67	2 W
11828 Vargha	10.518	0.53	2 W	12263 1989 YA ₄	2.75	0.06	2 W
11829 Tuvikene	44.498	0.72-0.83	3-	12264 1990 CD	4.147	0.14	2 W
11831 1984 SF ₃	32.300	0.49	2 W	12265 1990 FG	56.6	0.65	2 T-
11833 Dixon	3.595	0.19	3	12269 1990 QR	76.	1.2	1+
11836 Eileen	8.810	0.25	3	12271 1990 RC ₂	2.54	0.4	1
11842* Kap'bos	3.68578	0.10-0.16	3	12282 Crombecq	3.426	0.21	3-
11862 1988 XB ₂	2.381	0.14	2 W	12286 Poiseuille	2.597	0.14-0.17	2 W
11864 1989 NH ₁	7.597	0.44	2 W	12290 1991 LZ	21.96	0.16	2
11868 Kleinrichert	24.	0.29	1	12292 Dalton	6.188	0.35	2 W
11869 1989 TS ₂	14.020	0.28-0.34	2 W	12298 Brecht	3.803	0.32	2 W
11873 Kokuseibi	4.7688	0.31	3	12317 Madicampbell	7.264	0.65	2+
11877 1990 EL ₈	3.057	0.30	2 W	12321 Zurakowski	3.296	0.05	1 W
11885 Summanus	7.358	0.18	3-	12326 Shirasaki	2.7286	0.12	NB
11887 Echemmon	8.47	0.15	2	12331 1992 UH ₆	2.727	0.02	1
11891 1991 FJ ₂	3.608	0.36	2 W	12332 1992 UJ ₆	43.	0.62	2
11899 Weill	30.284	0.10	1 W	12336 1992 WO ₃	2.9527	0.16	3
11901 1991 PV ₁₁	9.3768	0.59-0.61	3	12352 Jepejacobsen	13.395	0.42	2 W
11904 1991 TR ₁	18.233	0.11-0.32	3	12353 Marquez	9.14	0.53	2 W
11912 Piedade	10.142	0.07	1 W	12356 Carlscheele	6.445	0.38	2 W
11917 1992 UX	89.317	0.32	2 W	12357 Toyako	8.330	0.65	2 W
11918 1992 UY	6.307	0.26	2 W	12359 Cajigal	11.766	0.27	2 W
11922 1992 UT ₃	4.762	0.46	2 W	12360 Unilandes	11.370	0.35	2 W
11931 1993 DD ₂	19.9	0.12	1+	12369 Pirandello	3.504	0.07	2
11937 1993 FF ₁₆	8.963	0.38	2 W	12374 Rakhat	18.170	0.31	2 W
11941 Archinal	2.717	0.18-0.30	3	12376 Cochabamba	6.32068	0.37	3
11946 Bayle	14.0	0.68-0.71	2 W	12377* 1994 PP	9.455	0.23-0.47	3-
11949 Kagayayutaka	3.96	0.28	3-	12379 Thulin	50.6	0.38	2 HW
11952 1994 AM ₃	3.978	0.71-0.84	2 W	12384 Luigimartella	6.440	0.80	2 s
11958 Galiani	9.801	0.96	2+ p	12390 1994 WB ₁	2.4629	0.05-0.09	3
11962 1994 PX	3.967	0.37-0.42	2 W	12391 Ecoadachi	36.931	0.36	2 W
11974 Yasuhidefujita	26.158	0.41	2 W	12395 Richnelson	5.248	0.26	2 W
11976 Josephthurn	3.535	0.08-0.15	3-	12400 Katumaru	2.610	0.09	2 W
11978 Makotomasako	24.	0.03	1-	12405 Nespoli	13.218	0.67	2 W
11985 1995 VG	36.314	0.19	2 W	12415 Wakatatakayo	4.3606	0.65-0.68	3
11992 1995 XH	13.782	0.27	2 W	12419 1995 UP ₄	22.897	0.26	2 W
11995 1995 YB ₁	12.66498		2 p Ns	12422 1995 US ₈	3.4	0.36	2-
11996 1995 YC ₁	50.859	0.71	2 W	12424 1995 VM	173.772	1.05	2 W
12008 Kandrup	32.9034	0.4 -0.85	3 B	12426 Racquetball	2.882	0.22	2 W
12016 Green	5.055	0.70	2	12429 1995 WH ₇	19.122	0.27	2 W
12020 1996 XW ₁₉	9.935	0.15	2 W	12432 Usuda	12.862	0.58	2 W
12022 Hilbert	9.553	0.09	1 W	12443 Paulsydney	15.28	0.64	2 W
12032 Ivory	30.165	0.10	1 W	12444 Prothoon	15.82	0.20	3-
12033 Anselmo	5.307	0.20-0.24	2 W	12453 1996 YY	10.00	0.33	3
12039 1997 CB ₂₂	3.799	0.18	2 W	12454 1996 YO ₁	8.089	0.77	2 W
12044* Fabbri	4.422	0.14	3-	12465 Perth Amboy	121.577	0.87	2 W
12045 Klein	8.9686	0.55	3- p	12466 1997 AS 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 FC ₁₁₁	16.334	0.32-0.53	2 W	12502 1998 FO ₆₈	6.190	0.35	2 W
12081 1998 FH ₁₁₅	16.6062	0.24	3	12524 Conscience	10.011	0.48	2 W
12082 1998 FS 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 HG 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 KW ₅₄	4.968	0.37	2 W
12117 Meagmessina	27.944	0.66-0.77	2 W	12538* 1998 OH	5.154	0.11-0.20	2 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 QQ ₃₉	11.202	0.95	3 p
12122 1999 NV ₅₅	13.851	0.27	2 W	12558 1998 QV ₆₃	9.409	0.26	2 W
12130 Mousa	2.551	0.25	2 W	12559 1998 QB 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

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Planet	Period	Variation	Note	Planet	Period	Variation	Note				
12584	Zeljkoandreic	7.071	0.19	2	W	12991	1981 EN ₂₁	3.44	0.24	2	W
12587	1999 RD ₉₅	49.277	0.24	2	W	12999	Toruñ	3.552	0.09	1	W
12594	1999 RU ₁₄₅	80.312	0.82	2	W	13003	Dickbeasley	3.502	0.30-0.44	3-	
12601	Tiffanyswann	3.867	0.42	2	W	13006	Schwaar	6.8	0.17	3-	
12603	Tanchunghee	5.811	0.09	1	W	13009	Voloshchuk	14.8212	0.67	3	
12609	Apolloodoros	10.272	0.09	1	W	13012	1987 SO ₅	5.817	0.69	2	W
12613	Hogarth	3.62	0.20	2	W	13014	Hasslacher	7.62	0.21	1	
12614	Hokusai	2.7296	0.35-0.80	3-		13018	Geoffjames	4.334	0.46-0.67	3	
12619	Anubelshunu	5.847	0.58	2	W	13019	1988 NW	5.906	0.38	2	W
12621	Alsufi	4.719	0.71	2	W	13020	1988 PW ₂	3.103	0.23	2	W
12625	Koopman	12.983	0.31	2	W	13023	1988 XT ₁		0.23		N
12634	LOFAR	3.34	0.35	2	W	13025	Zürich	18.53	0.24	2+	
12650	de Vries	5.358	0.28	2	W	13026	1989 CX	6.163	0.4	2-	
12659	Schlegel	9.70	0.30	1	W	13036	1989 YO ₃	4.73	0.13	2-	W
12662	1978 CK	7.398	0.38	2	W	13058	Alfredstevens	4.299	0.45	2	W
12667	1979 DF	7.782	0.46	2	W	13059	Ducuroir	13.850	0.78	2	p s
12672	Nygårdh	2.77	0.18	2	W	13061	1991 FL ₂	11.812	0.19-0.21	2	W
12674	Rybalka	3.594	0.22	2	W	13069	Umbertoeco	5.736	0.51	2	W
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	0.15-0.16	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*	Augeias	11.934	0.15-0.16	2+	H
12777	Manuel	2.789	0.26	2	W	13185*	Agathenes	11.453	0.03-0.13	1	HW
12788	Shigeno	35.445	0.77	2	W	13186*	1996 UM	4.304	0.34-0.69	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	Pochintesta	7.8	0.35	2	W	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		13255*	1998 OH ₁₄	3.2941	0.12	3-	
12854	1998 HA ₁₃	50.6	0.34		N	13256	Marne	6.238	0.81	2	W
12860	Turney	438.135	0.08	1	W	13258	Bej	4.59	0.23	2	W
12867	Joëloic	>8.	>0.04	1		13260	Sabadell	6.4366	0.56	3	
12868	Onken	115.	>0.6	2		13262	1998 QF ₁₇	8.35	0.48	2	W
12877	1998 QF ₁₁	11.89	0.41	2+		13263	1998 QV ₂₂	4.803	0.29	2	W
12878	Erneschiller	4.74	0.68	2	W	13266	1998 QY ₃₀	4.854	0.64	2	W
12880	Juliegrady	18.8	0.9	2-		13283	Dahart	4.32	0.39	2	W
12882	1998 QS ₃₁	47.532	0.09	1	W	13290	1998 QN ₇₅	5.384	0.03	2-	
12884	1998 QL ₃₄	10.375	0.38	2	W	13306	1998 RT ₅₈	5.433	0.41	2	W
12885	1998 QM ₃₄	3.60	0.15	2	W	13323	1998 SQ	29.230	0.27-0.46	2	W
12888	1998 QR ₄₂	3.799	0.24	2	W	13329	Davidhardy	65.152	0.47	2	W
12889	1998 QW ₄₂	5.363	0.48	2	W	13331	1998 SU ₅₂	375.	0.44-0.80	3-	T?
12891	1998 QH ₅₁	7.296	0.09	1	W	13337	1998 SZ ₁₁₄	4.039	0.18-0.23	2	W
12895	Balbastre	3.469	0.08-0.11	2	W	13338	1998 SK ₁₁₉	4.12911			p Ns
12896	Geoffroy	11.36	0.23	1+	DAW	13343	1998 SY ₁₂₇	3.47	0.41-0.45	2	W
12912	Streator	4.144	0.32	2	W	13349	1998 SD ₁₃₉	3.22	0.39	2	W
12920	1998 VM ₁₅	9.0511	0.19-0.31	2+	A	13353	1998 TU ₁₂	53.52	0.24	2-	
12923	Zephyr	3.891	0.18		N	13362	1998 UQ ₁₆	15.13	0.35	3-	
12929	1999 TZ ₁	9.2749	0.07-0.17	2+		13364	1998 UK ₂₀	9.114	0.64	2	W
12934	Bisque	54.625	0.77	2	W	13366	1998 US ₂₄	400.	0.23	2-	HW
12963	5485 T-2	11.004	0.07	1	W	13372*	1998 VU ₆	20.176	0.36-0.43	2	HW
12972	Eumaios	13.4	0.13	2-		13374	1998 VT ₁₀	3.23	0.41	2	
12974*	Halitherses	6.971	0.48-0.52	2+	H	13376	Dunphy	4.32	0.06	1	
12979	Evgalvasil'ev	5.78331			p Ns	13378	1998 VF ₃₅	102.546	0.77	2	W
12982	1979 MS ₅	601.869	0.86	2	W	13379*	1998 WX ₉	13.698	0.11-0.15	2	HA
12984	Lowry	5.19	0.29	2	W	13384	1998 XG ₇₉	182.230	0.82	2	W
12989	1981 EV ₉	5.67	0.79	2		13389	Stacey	21.688	0.30	2	W

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Planet	Period	Variation	Note	Planet	Period	Variation	Note
13390 Bouška	7.757	0.30	2 W	13913 1979 SO	15.504	0.30	2 W
13407* 1999 TF ₄	4.264	0.38	3- W	13919 1984 SO ₄	6.02	0.48-0.79	2 W
13409 1999 US	9.548	0.68	2 W	13921 Sgarbini	3.679	0.10-0.12	2+ A
13429 1999 VM ₃₅	81.366	0.81	2 W	13924 1986 PE ₁	6.089	0.34	2 W
13430 1999 VM ₃₆	8.1	1.52	2 W	13939 1989 SJ ₂	7.360	0.99	2 W
13460 1083 T-2	5.533	0.63	2 W	13945 1990 OH ₂	4.764	0.21	2 W
13468 3378 T-3	128.112	0.55	2 W	13952 Nykvist	7.349	0.99-1.17	2 p s
13474 V yus	6.587	0.85	3	13956 Banks	6.218	0.75	2 W
13478 Fraunhofer	49.9	0.45	2	13959 1991 EL ₄	3.124	0.58	2 W
13480 Potapov	10.86	0.68-0.76	2 W	13971 1991 UF ₁			2 HNW
13482 Igorfedorov	13.55	0.55	3-	13977* Frisch	4.9991	0.15-0.22	3
13488 Savanov	5.678	0.72	2 W	13981* 1992 OT ₉	5.5	0.40-0.58	2
13497 Ronstone	11.847	0.90	3	13991 Kenphillips	3.523	0.37	2 W
13503 1988 RH ₆	6.9	0.23	2- AW	13995 Töravere	22.627	0.82	2 W
13504* 1988 RV ₁₂	26.543	0.48-0.61	3	14004 Chikama	3.263	0.14	2 W
13518 1990 VL ₁	6.885	0.26	2	14008 1993 TD ₁₇	5.065	0.25-0.28	2 W
13519 1990 VM ₃	6.297	0.40	2 W	14014 Münchhausen	6.867	0.57	2 W
13526 Libbrecht	6.276	0.51-0.71	2 W	14016 Steller	3.797	0.78	2 W
13527 1991 PJ ₁₅	7.33	0.12-0.12	2 W	14031 Rozyo	2.90065		S p Ns
13531 Weizsäcker	17.628	0.21	2 W	14032 Mego	40.32	0.07	1
13533 Junili	>6.	0.15	1+	14040 Andrejka	310.	0.95	2 TO
13534 Alain-Fournier	6.214	0.92	2 W	14044 1995 VS ₁	9.25874		S p Ns
13535 1991 RS ₁₃	5.22705		2 p Ns	14051 1995 YY ₁	5.54	0.59	2+
13536 1991 RA ₁₅	8.749	0.22-0.23	2 W	14055 1996 AS	6.050	0.78	2 W
13538* 1991 ST	12.31	0.89	3-	14090 1997 MS ₃	3.08	0.27	2 W
13553 Masaakikoyama	38.	1.1	NT	14095 1997 PE ₂	19.532	0.58	2 W
13555 1992 JB ₂	7.0	0.52	2	14111 Kimamos	6.623	0.42-0.49	2 W
13567 Urabe	5.960	0.24	2 W	14125 1998 QT ₆₂	6.0275	0.29	3-
13573 1993 FZ ₁₈	3.06	0.07	2- A	14133 1998 RJ ₁₇	5.23990	1.11-1.15	3
13575 1993 GN	13.537	0.20	2 W	14137 1998 RB ₇₁	9.23	0.60-0.88	2 W
13578 1993 MK	3.960	0.10-0.55	3	14141* Demeautis	2.897	0.14-0.22	2
13580 de Saussure	12.31	0.17	2 W	14142 1998 SG ₁₀	>50.	1.3	2
13593 1994 NF ₁	113.739	0.64	2 W	14144 1998 SQ ₂₂	5.064	0.55	2 W
13607 Vicars	4.133	0.32	2 W	14151 1998 SJ ₇₃	4.95	0.19	2 W
13608 Andosatoru	2.053	0.06	1 W	14158* Alananderson	17.50	0.18	2+
13609 Lewicki	12.67	0.45	2+	14160 1998 SB ₁₄₄	4.8		2 N
13637 1995 YO ₃	3.600	0.39	2 W	14161 1998 SO ₁₄₅	2.38	0.21	2 W
13642 Ricci	3.076	0.76	2 W	14162 1998 TV ₁		0.24	2 N
13643 Takushi	83.838	1.00	2+ TO	14164 Hennigar	11.859	0.71-0.90	2 W
13644 Lynnanderson	21.844	0.97	2 W	14168 1998 UR ₁₅	5.844	0.22	2 W
13651 1997 BR	33.644	1.2	3 T	14170 1998 VF ₆	4.119	0.34	2 W
13678 Shimada	6.8025	0.13	2+	14174 Deborahsmall	2.901	0.27-0.41	2 W
13679 Shinanogawa	>8.		N	14190 Soldán	21.731	0.44	2 W
13681 Monty Python	5.030	0.41	2 W	14192 1998 XA ₃₃	2.352	0.07	1 W
13693 Bondar	11.555	0.61	2 W	14196 1998 XH ₅₉	3.2437	0.22-0.25	3
13694 1997 WW ₇	30.64	0.39	2	14197 1998 XK ₇₂	10.7	0.62-0.67	3- p W
13698 1998 KF ₃₅	83.506	0.35	2 W	14201 1998 XR ₉₂	3.283	0.07	1 W
13699 Nickthomas	7.319	0.07	3	14203 Hocking	9.08566		S p Ns
13709 1998 QE ₁₃		0.47	N	14208 1999 CR ₆₄	18.2	0.49	2
13711 1998 QB ₂₆	55.026	0.23	2 W	14209 1999 CV ₈₁	50.344	0.59	2 W
13713 1998 QN ₃₀	6.338	0.65	2 W	14211 1999 NT ₁	3.5856	0.12-0.17	3
13717 Vencill	24.00	0.33	2 W	14218 1999 VS ₃₀	6.245	0.10	2 W
13727* 1998 QU ₉₀	4.8069	0.23	3	14222 1999 WS ₁	24.869	0.09	1 W
13732 Woodall	8.2987	0.27	3	14234 Davidhoover	5.824	0.55	2 W
13737 1998 RU ₇₆	7.74	0.86	2 W	14238 d' Artagnan	9.671	0.34	2 W
13762 1998 SG ₁₃₀	2.7587	0.25	3	14241 2000 AO ₅	11.506	0.73	2 W
13765 Nansmith	10.526	0.06	3	14243 2000 AH ₂₉	10.199	0.73	2 W
13777 Cielobuio	5.39	0.15	2 W	14246 2000 AN ₅₀	5.774	0.70	2 W
13788 Dansolander	6.760	0.24	2 W	14255 2000 AS ₇₀	12.772	0.32	2
13806 Darmstrong	>20.	>0.15	1+ W	14256 2000 AA ₉₆	>96.	>0.7	2-
13809 1998 XJ ₄₀	40.256	0.41	2 W	14257 2000 AR ₉₇	13.584	0.67	3 p
13812 1998 YR	3.913	0.45-0.48	2 W	14268 2000 AK ₁₅₆	7.51	0.27	3-
13813 1998 YX	5.401	0.16	2 W	14269 2000 AH ₁₈₂	>24.	>0.1	1
13822 Stevedodson	5.590	0.58	2+	14276 2000 CF ₂		0.12	N
13823 1999 VO ₇₂	3.741	0.63	2 W	14279 2000 CD ₆₅	8.72	0.42	1 DAW
13828 1999 WL ₆	22.369	0.08	1 W	14299 3162 T-2	17.424	0.38	2
13839 1999 XF ₂₉	13.302	0.04	1 W	14301 5205 T-2	25.546	1.10	2 W
13846 1999 XV ₆₉	50.950	0.26	2 W	14305 3437 T-3	3.937	0.50	2 W
13853 Jenniferfritz	10.367	0.74	2 W	14306 4327 T-3	11.078	0.50	2 W
13854 1999 XX ₁₀₄	246.740	0.79	2 W	14309 Defoy	3.391	0.16-0.29	3
13855 1999 XX ₁₀₅	3.023	0.31	2 W	14327 Lemke	5.698	0.38	2 W
13856 1999 XZ ₁₀₅	4.4475	0.45	3	14333 1981 ED ₃₄	3.825	0.54	2 W
13860 Neely	13.864	0.43-0.43	2 W	14335 Alexosipov	7.18	0.10	3
13866 1999 XS ₁₇₄	5.355	0.17	2 W	14339 Knorre	3.795	0.21-0.23	3
13883 7066 P-L	3.661	0.89	2 W	14342 Iglia	3.9867	0.53	3
13885 2104 T-1	4.797	0.90	2 W	14359 1988 CU ₁	7.147	0.36	2 W
13892 1266 T-2	2.35	0.28	2 W	14360 Ipatov	10.912	0.24	2 W
13894 2039 T-2	5.478	0.58	2 W	14362 1988 MH	3.639	0.44	3
13903 1975 ST	12.933	0.64	2+	14370 1988 VR ₂	2.801	0.14	2 W
13906 Shunda	2.75	0.09	N	14376 1989 ST ₁₀	5.614	0.64	3

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Planet	Period	Variation	Note	Planet	Period	Variation	Note
14379* 1989 UM ₄	2.72	0.05	2 W	14813 1981 QW ₂	4.977	0.49	2 W
14382 Woszczyk	6.577	0.29-0.31	2 W	14815 Rutberg	150.	0.5 -1.0	2 TO
14383 1990 OY ₃	8.713	0.29-0.32	2 W	14819 Nikolaylaverov	103.267	0.58	2 W
14385 1990 QG ₁	3.78	0.32-0.33	2 W	14823 1984 ST ₅	7.364	0.53	2 W
14395 Tommorgan	35.5	0.61	2+ T	14827 Hypnos		0.05	
14402 1991 DB	2.2656	0.11-0.20	2+	14829 Povalyaeva	>12.	>0.2	1
14409 1991 RM ₁	8.691	0.49	2 W	14831 Gentileschi	46.474	0.65	2 W
14411 Clérambault	3.053	0.44	2 W	14832 Alechinsky	8.07	0.98-1.30	2+
14430 1992 CH	4.84	0.38-0.39	2+ W	14835 Holdridge	>10.	>0.08	N
14431 1992 DX ₈	9.222	0.26	2 A	14839 1988 RH ₈	7.339	0.27	2 W
14434 1992 ER ₁₁	4.17	0.13	1+ W	14863 1990 OK	8.429	0.61	2 W
14436 Morishita	972.808	0.82	2 W	14868 1990 RA ₇	9.78	0.1	1
14439 Evermeersch	9.94	0.38	1 HW	14873 Shoyo	3.5746	0.52	3
14451 1992 WR ₅	126.550	0.38	2 W	14882 1991 PP ₁₁	13.736	0.35	2 W
14452 1992 WB ₉	135.824	0.59	2 W	14886 1991 RL ₉	6.366	0.42	2 W
14456 1993 FK ₂₀	5.711	0.27	2 W	14889 1991 VX ₂	16.096	0.41	2 W
14465 1993 NB	4.9703	0.49-0.69	3	14901 Hidatakayama	4.0625	0.41	2+
14466 Hodge	10.191	0.39	2 W	14909 Kamchatka	15.602	0.10	1 W
14470 1993 RV ₇	3.565	0.52	2 W	14910 1993 QR ₄	5.148	0.59-0.64	2 W
14471 1993 SG ₁	77.623	0.56	2 W	14916 1993 VV ₇	13.496	0.16	2 W
14481 1994 PO ₁₂	6.763	0.56-0.68	2 W	14917* Taco	9.7078	0.68	3
14495 1995 AK ₁	8.8	0.27	2+	14918 1994 BP ₄	7.554	0.81	2 W
14505 Barentine	2.892	0.41	2 W	14919 Robertohaver	53.045	0.55	2 W
14511 Nickel	35.590	0.64-0.72	2 W	14920 1994 PE ₃₃	367.080	0.54	2 W
14515 Koichisato	4.265	0.51	3-	14921 1994 QA	12.9134	0.32	3
14527* 1997 JD ₁₂	6.012	0.88	3- W	14923 1994 TU ₃	7.300	0.34	2+
14540 1997 RJ ₁₀	5.096	0.78-0.81	2 W	14927 Satoshi		0.55	N
14544 Ericjones	18.081	0.14	2 W	14933 1994 YX	4.926	0.34	2 W
14564 Heasley	10.091	0.63	2 W	14934 1995 BP	2.79	0.25	2
14568 Zanotta	3.523	0.12	2 W	14946 1996 AN ₂	5.148	0.38-0.42	2 W
14577 1998 QN ₉₃	3.094	0.26	2 W	14950* 1996 BE ₂	3.27915	0.24-0.49	3
14594 Jindrašilhan	10.179	0.08	1 W	14962 Masanoriabe	19.496	0.30	2 W
14599 1998 SV ₆₄	5.033	0.10	1 W	14963 Toshikazu	7.11	0.31	2 W
14609 1998 SW ₁₄₅	5.540	0.51	2 W	14965 Bonk	2.84735	0.31	3
14614 1998 TX ₂	3.64	0.25-0.42	2	14968 Kubáček	4.89	0.48	3-
14620 1998 UP ₁₅	4.439	0.23-0.24	2 W	14974 Počátky	21.728	0.57-0.68	2 W
14625 1998 UH ₃₁	4.48682	0.38-0.41	3-	14977 Bressler	44.139	0.71-0.93	2 W
14627* EmilKowalski	11.131	0.32-0.86	3	14980 Gustavbrom	122.646	0.51	2 W
14643 Morata	>24.	>0.1	1	14982 1997 TH ₁₉		0.10	N
14651 1998 YE ₅	44.363	0.33	2 W	14985 1997 UU ₂	13.792	0.13-0.16	2 W
14653 1998 YV ₁₁	11.389	0.20	2+	14990 Zermelo	4.814	0.45-0.46	2 W
14654 Rajivgupta	5.19	0.65	2 W	14992 1997 UY ₁₄	12.958	0.47-0.50	2 W
14657 1998 YU ₂₇	33.58	0.30-0.46	2	15004 Vallerani	24.302	0.07	1 W
14659 Gregoriana	9.639	0.15	1	15037 Chassagne	29.836	0.35	2 W
14660 1999 BO ₁	6.565	0.44	2 W	15048 1998 XQ ₆₃	13.006	0.07	1 W
14668 1999 CB ₆₇	2.89	0.06	2	15050 Heddal	4.768	0.76	2 W
14671 1999 RM ₄₉	7.579	0.82	2 W	15062 1999 AL ₂	6.821	0.54	2 W
14672 1999 RO ₉₄	2.896	0.16	2 W	15075 1999 BF ₁₅	16.00	0.14	2 W
14678 Pinney	5.08	0.16	2 W	15084 1999 CH ₃₈	5.039	0.17-0.27	2 W
14681 Estellechurch	12.466	0.65	2 W	15085 1999 CB ₄₃	5.530	0.25-0.26	2 W
14686* 1999 XA ₁₇₄	4.3283	0.60	3	15095 1999 WO ₃	3.583	0.48	2 W
14690* 2000 AR ₂₅	8.519	0.18-0.22	2+ W	15096 1999 XH ₁₂	3.41	0.21-0.26	3 W
14691 2000 AK ₁₁₉	3.652	0.70-0.84	3 p	15105 2000 BJ ₄	6.257	0.60	2 W
14712 2000 CO ₅₁	13.7	0.50-0.70	2 W	15106 Swanson	39.580	0.48	2 W
14714 2000 CQ ₆₅	2.805	0.44-0.68	2 W	15107 Toepferwein	2.5294	0.13	3
14716 2000 CX ₈₁	5.457	0.25	2 W	15110 2000 CE ₆₂	5.462	0.66-1.03	2 W
14720 2000 CQ ₈₅		0.35	N	15118 Elizabethsears	13.756	0.25	2 W
14721 2000 CW ₉₁	46.072	0.10	1 W	15124 2000 EZ ₃₉	9.488	0.12	2 W
14726 2000 DD ₃	4.023	0.25	2 W	15126 Brittanysanderson	2.59	0.03	1+
14728 Schuchardt	4.636	0.9	2 A	15141 2000 EP ₁₀₆	7.897	0.19	2 W
14730 2000 DS ₁₉	4.735	0.29	2 W	15149 Loufaix	10.571	0.77	2 W
14735 2000 DV ₈₆	8.488	0.13	2 W	15151 Wilmacherup	4.5611	0.47-0.61	3
14741 Teamequinox	4.06	0.19	2-	15153 2000 FD ₁₇	9.125	0.32-0.32	2 W
14744 2092 P-L	2.49	0.22	2 W	15154 2000 FW ₃₀	13.31	0.06	2
14755 6069 P-L	3.27	0.33-0.42	2 W	15158 2000 FH ₄₀	7.334	0.51	2 W
14756 6232 P-L	4.51	0.41	2 W	15161 2000 FQ ₄₈	6.663	0.10	2
14761 6608 P-L	7.03	0.27	2	15177 6599 P-L	11.742	0.61	2 W
14764 Kilauea	19.84	0.50-1.2	2 T+	15184 3232 T-1	5.852	0.69	2 W
14768 1238 T-1	9.339	0.46-0.52	2 W	15190 3353 T-2	5.251	0.37	2 W
14770 2198 T-1	14.894	0.32	2 W	15191 4234 T-2	4.194	0.55	2 W
14774 4845 T-1	287.425	0.50	2 W	15195 2407 T-3	13.315	0.41-0.42	2 W
14779 3072 T-2	35.071	0.50-0.64	2 W	15201 1976 UY	4.786	0.65	2 W
14787 5038 T-3	12.47	0.42	2- W	15203 Grishanin	11.6388	0.44	3-
14789 GAISH	8.086	0.82	2 W	15213 1980 UO ₁	4.933	0.31	2 W
14790 Beletskij	3.146	0.28-0.29	3	15217 1981 ET ₁₉	14.023	0.55	2 W
14791* Atreus	19.615	0.34-0.37	2+ H	15222 1982 FL ₁	7.027	0.55	2 W
14795 Syoyou	3.43	0.15	2 W	15224 Penttilä	4.377	0.46-0.64	3-
14804 1981 EW ₁₃	3.619	0.25	2 W	15226 1986 UP	2.053	0.50	2 W
14805 1981 ED ₁₅	2.053	0.09	1 W	15235 1988 DA ₅	4.109	0.52	2 W
14806 1981 EV ₂₅	3.373	0.43	2 W	15241 1989 ST ₃	133.783	0.10	1 W

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Planet	Period	Variation	Note	Planet	Period	Variation	Note
15250 Nishiyamahiro	6.764	0.59-0.66	2 W	15552* Sandashoukan	33.62	1.02-1.44	3-
15252 Yoshiken	22.218	0.09	1 W	15558 2000 GR ₂	2.692	0.23	2 W
15254 1990 QM ₄	2.318	0.10	1 W	15563 Remsberg	12.716	0.36-0.45	2 W
15256 1990 RD ₁	22.824	0.46	2 W	15564 2000 GU ₄₈	6.08	0.37-0.38	2 W
15257 1990 RQ ₈	6.67	1.01	2 W	15568 2000 GP ₅₄	5.718	0.91-1.07	2 W
15258 Alfipenko	4.366	0.11	2 W	15579 2000 GP ₇₀	2.810	0.14	1 W
15262 Abderhalden	3.533	0.21	2 W	15583 Hanick	14.969	0.42	2 W
15264 Delbrück			HNW	15585 2000 GR ₇₄		0.21	N
15267* Kolyma	4.9649	0.69-0.70	3	15587 2000 GK ₇₆	34.545	0.44-0.51	2 W
15268 Wendelinefroger	2.4224	0.07	3 B	15590* 2000 GH ₈₂	3.79	0.25	2
15269 1990 XF	26.708	0.55-0.62	3	15596 2000 GZ ₉₅	2.923	0.25-0.35	2 W
15271 1991 DE	6.908	0.58	2+	15607 2000 GA ₁₂₄	3.588	0.16-0.21	3
15274 1991 GO ₆	128.603	0.30	2 W	15609 Kosmaczewski	5.22	0.15	2
15275 1991 GV ₆	3.28	0.23	2 W	15613 2000 GH ₁₃₆	3.418	0.78	2 W
15277 1991 PC ₇	2.75	0.33	2- W	15614 Pillinger	39.561	0.80	2 W
15278 Pâquet	40.01	0.41	3-	15615 2000 HU ₁	5.652	0.26	2 W
15279 1991 PY ₇	8.145	0.09	1 W	15621 Erikhovland	5.3426	0.85-0.89	3 p
15288 1991 RN ₂₇	7.14	0.19	2+	15626 2000 HR ₅₀	13.277	0.68	2 W
15293 1991 VO ₃	96.940	0.63	2 W	15630 Disanti	8.064	0.18-0.20	2 W
15312 1993 FH ₂₇	149.383	0.46	2 W	15634 2000 JD ₁₅	3.002	0.24	2 W
15317 1993 HW ₁	2.6580	0.20-0.29	3	15638 2000 JA ₆₅	5.914	0.38-0.47	2 W
15329 Sabena	3.549	0.18	2 W	15645 4163 P-L	5.638	0.37	2 W
15337 1993 VT ₂	3.338	0.27	3	15658 1265 T-2	277.442	0.49	2 W
15338 Dufault	9.351	0.76-1.08	2 W	15659 2141 T-2	135.212	0.47	2 W
15339 Pierazzo	5.61	0.25-0.27	2 W	15670 1975 SO ₁	21.33	0.23	2 W
15343 1994 PB ₁	7.434	0.60	2 W	15677 1980 TZ ₅	5.614	0.78	2 p s
15350 Naganuma	2.5835	0.07-0.20	3	15692 1984 RA	37.44	0.66	2
15352 1994 VB ₇	12.63	0.30	2 W	15693 1984 SN ₆	5.316	0.32	2 W
15360 Moncalvo	5.71	0.13	2 W	15699 Lyttinen	2.7818	0.11	2-
15362 1996 ED	31.4	0.50	3-	15700 1987 QD	3.0586	0.07	3 B?
15363 Ysaye	4.5286	0.11	2	15701 1987 RG ₁	109.416	0.50	2 W
15374 Teta	2.8204	0.30-0.39	3-	15702 Olegkotov	2.46	0.05	N
15383 1997 SE ₃	8.480	0.52	2 W	15714 1989 TL ₁₅	3.72	0.33	3- W
15385 Dallolmo	4.678	0.16	2 W	15719 1990 CF	4.771	0.13	2 W
15393 1997 TR ₂₄	4.68	0.35	2 W	15724 Zille	>5.	0.20	2-
15398 1997 UZ ₂₃		0.98	I	15732 Vitusbering	9.604	0.29	2 W
15402 Suzaku	3.13	0.45	2 W	15734 1990 WV ₁	17.2	0.55-0.69	2 W
15408 1997 WU ₂₁	30.414	0.21-0.23	2 W	15748 1991 RG ₂₅	19.697	0.38	2 W
15409 1997 WQ ₃₁	2.723	0.13-0.16	2 W	15752 Eluard	6.423	0.32	2 W
15411 1997 YL ₁	4.389	0.19	2 W	15753 1992 DD ₁₀	3.197	0.30	2 W
15414 Pettrossi	2.71	0.17-0.21	2 W	15755 1992 ET ₅	6.252	0.36	2 W
15415 Rika	6.3632	1.06	3	15758 1992 FT ₁	10.13	0.6	2
15417 Babylon	39.251	0.42	2 W	15761 Schumi	3.768	0.41	2 W
15421 Adammalin	7.538	0.35	2 W	15769 1993 FP ₂₃	5.794	0.85	2 W
15422 1998 QP ₄₅	4.425	0.31-0.32	2 W	15770 1993 FL ₂₉	9.90	0.40-0.48	2 W
15424 1998 QE ₁₀₀	10.9000	0.30-0.42	3	15775 1993 FA ₄₉	4.186	0.09	1 W
15430 1998 UR ₃₁	2.52735	0.10-0.11	3 B?	15777 1993 LF	2.637	0.24	2 W
15432 1998 VA ₅	95.115	0.90	2 W	15778 1993 NH	113.	0.61	2 B?
15434 Mittal	8.52	0.65	3-	15783* Briancox	56.56	0.32	2+
15436 1998 VU ₃₀	8.970	0.15-0.29	3	15785 de Villegas	7.728	0.41	2 W
15440* 1998 WX ₄	21.43	0.08-0.16	2+	15786 1993 RS	6.82	0.08-0.21	2 A
15460 Manca	7.272	0.22	2 W	15789 1993 SC		<0.04	
15464 1999 AN ₅	6.582	0.20	2 W	15790 Keizan	19.68	0.25	2-
15468 Mondriaan	2.64	0.10	2 W	15793 1993 TG ₁₉	22.4	0.71	N
15474 1999 BG ₁₁	3.53	0.38-0.42	3- W	15798 1993 VZ ₄	3.578	0.63	2 W
15476 Narendra	3.036	0.08	1 W	15800 1993 XP	4.516	0.86	2 W
15481 1999 CK ₁₉	5.010	0.10-0.14	2 W	15806 Kohei	145.700	0.29	2 W
15491* 1999 CW ₈₅	3.902	0.10-0.13	3	15810* Arawn	5.47	0.8	2 H
15492 Nyberg	8.256	0.27-0.29	2 W	15817 Lucianotesi	>11.	>0.9	N
15498 1999 EQ ₄	34.579	0.14-0.16	2 W	15820 1994 TB	6.5	0.3	2
15499 Cloyd	6.878	0.21-0.30	2+	15821 Iijimatatsushi	7.824	0.57	2 W
15502* 1999 NV ₂₇	15.129	0.10-0.26	3	15822 1994 TV ₁₅	2.95998	0.18-0.36	3 B
15505 1999 RF ₅₆	15.11	0.10	2+	15825 1994 WX ₁	7.516	0.19	2 W
15512 Snyder	2.738	0.22	2 W	15840 Hiroshindou	6.449	0.31	2 W
15515 1999 VN ₈₀	4.1694	0.37-0.44	3-	15850 1996 AE ₁	8.332	0.49	2 W
15518 1999 VY ₁₅₃	16.245	0.28	2 W	15860 Siráň	10.532	0.56-0.75	2 W
15519 1999 XW	14.290	0.36	2 W	15861 Ispahan	169.464	0.33	2 W
15520 1999 XK ₉₈	8.7904	0.85	3	15863 1996 HT ₁₅	2.91	0.16	2 W
15522 Trueblood	7.183	0.53	2 W	15866 1996 KG	17.059	0.38	2 W
15523 Grenville	5.745	0.24	2 W	15874 1996 TL ₆₆	12.	0.07	1 1A
15527* 1999 YY ₂	6.9903	0.39-0.54	3	15875 1996 TP ₆₆		<0.12	
15529* 2000 AA ₈₀	375.	0.50-0.59	2 HW	15878 1996 XC ₃	4.918	0.53	2 W
15530 Kuber	6.937	0.28	2 W	15882 1997 CF ₂₉	5.050	0.31-0.38	2 W
15533 2000 AP ₁₃₈	114.	0.38	3 TO	15914 1997 UM ₃	12.8	0.5	2 A
15535 2000 AT ₁₇₇	6.016	0.26-0.32	2+ A	15915 1997 UR ₃	3.370	0.31	2 W
15536 2000 AG ₁₉₁	11.71	0.45	2	15938 Bohnenblust	3.906	0.12	2+
15538 2000 BW ₁₄	2.974	0.32	2 W	15941 Stevegauthier	9.90	0.28	2 W
15539 2000 CN ₃	46.25	0.30	3-	15954 1998 BG ₁₁	8.031	0.80	2 W
15540* 2000 CF ₁₈	28.41	0.51	3	15964 Billgray	3.571	0.21-0.47	3
15545 2000 EK ₄₆	25.130	0.37-0.44	2 W	15967 Clairearmstrong	5.897	0.33-0.41	3

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Planet		Period	Variation	Note	Planet		Period	Variation	Note
15968	Waltercugno	5.19	0.25	2+ W	16371	1981 DQ ₃	3.698	0.23	2 W
15973	1998 FM ₈₅	5.851	0.40-0.42	2 W	16372	1981 EP ₁	3.191	0.48	2 W
15977	1998 MA ₁₁	250.	0.30-0.30	2- T?	16377	1981 EY ₁₁	12.167	0.27	2 W
15979	1998 QW ₃₄	6.420	0.44-0.47	2 W	16382	1981 ER ₂₇	4.9	0.46	2 W
16009	1999 CM ₈	16.70	0.54-0.65	2+ p	16384	1981 ES ₃₁	43.768	0.57	2 W
16016	1999 CB ₅₄	9.85	0.54-0.58	2 W	16402	Olgapopova	3.7740	0.18	3-
16018	1999 CJ ₆₇	>24.	0.05	1	16403	1984 WJ ₁	7.5391	0.14-0.18	3 p
16021	Caseyvaughn	13.0	0.21-0.24	2 W	16404	1985 CM ₁		0.1	
16024	1999 CT ₁₀₁	2.804	0.13	2 W	16416	1987 SM ₃	36.506	0.38	2 W
16026	1999 CM ₁₁₈	11.3	0.21	2-	16421	Roadrunner	174.	1.00-1.25	3 TO
16027	1999 DV ₁	5.732	0.43	2 W	16423*	1988 BZ ₃	3.3048	0.33	3
16029	1999 DQ ₆	5.95	0.67-0.76	3-	16426	1988 EC	33.30	0.18-0.27	3-
16034	1999 FW ₃₂	3.700	0.34-0.38	2 W	16428	1988 RD ₁₂	20.312	0.46	2 W
16038	1999 GD ₁₈	6.950	0.16	2 W	16432	1988 VL ₂	2.695	0.08	1 W
16048	1999 JU ₂₃	6.11	0.33	2 W	16433	1988 VX ₂	5.371	0.22	2 W
16050	1999 JN ₃₅	3.913	0.25	2 W	16439	Yamehoshinokawa	92.459	0.42	2 W
16054	1999 JP ₅₅	87.450	0.56	2 W	16446	1989 MH	4.977	0.65	2 W
16055	1999 JQ ₅₆	94.273	1.05	2 W	16457	1989 VF	14.422	0.17	2 W
16057	1999 JO ₇₅	5.106	0.33	2 W	16462	1990 DZ ₁	62.366	0.97	2 W
16062	Buncher	8.123	0.49	2 W	16463	Nayoro	14.666	0.26	3
16064	Davidharvey	178.5	0.7	2 T	16464	1990 EV ₁	3.820	0.22	2 W
16070	1999 RB ₁₀₁	20.24	0.09-0.40	2	16468	1990 HW ₁	94.13		p N
16076	Barryhaase	4.795	0.27	2 W	16478	1990 QS ₆	2.704	0.21	2 W
16081	1999 SR ₁₅	6.531	0.25	2 W	16483	1990 QX ₈	12.032	0.17	2 W
16089	Lamb	17.363	0.15-0.16	2 W	16484*	1990 QJ ₉	>24.	>0.5	W
16091	Malchiodi	20.362	0.30	2 W	16488	1990 RX ₈	3.090	0.15	2 W
16097	1999 UE ₅₀	10.471	0.71	2 W	16490	1990 ST ₂	14.77	0.21	1 W
16103	Lorsolomon	4.32	0.36	2+ W	16497	Toinevermeylen	2.761	0.21	2 W
16106	Carmagnola	3.673	0.23	2 W	16499	1990 SU ₉	5.04	0.58	2 W
16114	Alyono	7.893	0.14	2 W	16509	1990 UE ₄	5.591	0.29-0.32	2 W
16115	1999 XH ₂₅	14.68	0.26	2-	16512	1990 VQ ₄	37.467	0.48	2 W
16123	Jessiecheng	3.98	0.11-0.18	2+ W	16513	Vasks	26.333	0.09	1 W
16124	Timdong	10.54	0.25	1 DAW	16514	Stevelia	5.724	0.68	2 W
16126*	1999 XQ ₈₆	2.9783	0.33	3	16525	Shumarinaiko	2.5932	0.08	3 B
16130	Giovine	6.519	0.16	2 W	16528	Terakado	23.38	0.55-0.63	2+
16134	1999 XE ₁₀₀	11.109	0.35	2 W	16531	1991 GO ₈	31.210	0.38	2 W
16135	Ivarsson	8.273	0.31	1+	16532	1991 LY	2.766	0.23	2 W
16139	1999 XO ₁₂₀	3.896	0.36	2 W	16539	1991 PY ₁₂	4.8	0.17	2-
16141	1999 XT ₁₂₇	6.1	0.80	3-	16541	1991 PW ₁₈	7.01	0.33-0.51	2
16143*	1999 XK ₁₄₂	6.400	0.76-1.02	3	16551	1991 RT ₁₄	16.193		N
16148	1999 XG ₁₈₈			HNW	16556	1991 VQ ₁		0.17	N
16152	1999 YN ₁₂	22.996	0.55-0.75	2 W	16558	1991 VQ ₂	170.	1.0	2- TO
16155	Buddy	15.896	0.65	2 W	16562*	1992 AV ₁	34.85	0.04-0.32	2 A
16159	2000 AK ₆₂	13.482	0.37	2 W	16565	1992 CZ ₁	5.790	0.50-0.53	2 W
16162	2000 AD ₆₈	10.398	0.40	2 W	16568	1992 DX ₅	4.302	0.14	2 W
16164	Yangli	>20.	>0.35	2- W	16582*	1992 JS ₃	6.252	0.27	3-
16173	2000 AC ₉₈	6.4842	0.36	3 p	16585	1992 QR	5.250	0.20-0.44	3
16174	Parihar	4.346	0.13-0.21	2 W	16589	Hastrup	128.	0.13-0.62	2 T
16182	2000 AH ₁₃₇		0.10	N	16591	1992 SY ₁₇	2.73728	0.18	2
16185	2000 AH ₁₆₄	5.901	0.70	2 W	16592	1992 TM ₁	137.686	0.19	2 W
16197	Bluepeter	2.708	0.23	3-	16594	Sorachi	4.528	0.19	2 W
16199	Rozenblyum	3.961	0.73	2 W	16598	Brugmansia	3.9272	0.30-0.37	3
16202	Srivastava	4.38	0.21	2 W	16621	1993 FA ₈₄	3.326	0.27	2 W
16204	2000 CT ₃₃	4.21	0.45-0.49	2 W	16624	Hoshizawa	2.762	0.18	2 W
16206*	2000 CL ₃₉	7.21	0.25	2-	16626	Thumper	6.813	0.37-0.47	2 W
16210	2000 CY ₆₁	9.633	0.89	2 W	16630	1993 NZ ₁	5.039	0.08	1 W
16214	Venkatachalam	6.272	0.28	2 W	16634	1993 OD ₈	4.90	0.22	2- W
16216	2000 DR ₄	10.36816		p Ns	16635	1993 QO	2.20827	0.17	3 B
16224	2000 DU ₆₉	10.310	0.11	2 W	16636	1993 QP	19.01	0.41-0.41	3-
16228	2000 EC ₃₉	6.2	0.10	2- W	16638	1993 QN ₃	34.632	0.37	2 W
16231	Jessberger	135.720	0.87	2 W	16641	Esteban	79.62	1.08-1.42	3-
16233	2000 FA ₁₂	3.1811	0.17-0.18	3	16642	1993 RK ₄	9.026	0.60-0.61	2 W
16240	2000 GJ ₁₁₅	161.441	0.74	2 W	16655	1993 TS ₃₃	3.12	0.17	2- W
16242	2000 GT ₁₂₆	9.050	0.28	2 W	16669	Rionuevo	4.953	0.47-0.73	3
16248	Fox	5.057	0.36	2 W	16672	Bedini	9.540	0.35	2 W
16251	Barbifrank	28.209	0.20	2 W	16679	1994 EQ ₂	13.501	0.77	2 W
16256	2000 JM ₂	63.5	0.98	2+ TO	16681	1994 EV ₇	5.3147	0.81-1.12	3
16276	2000 JX ₆₁	646.747	0.62	2 W	16682	Donati	4.669	0.42	2 W
16286	4057 P-L	5.239	0.67	2 W	16690	Fabritius	8.020	0.72	2 W
16287	4096 P-L	19.272	0.32	2 W	16691	1994 VS	1.36	0.25	N
16306	6797 P-L	5.203	0.46-0.52	2 W	16694	1995 AJ		0.15	N
16326	2052 T-2	2.883	0.25-0.28	2 W	16696	Villamayor	4.51	0.46-0.53	2 W
16338	1106 T-3	29.226	0.09	2 A	16698*	1995 CX	52.8	0.20	2
16342	2271 T-3	6.048	0.43	2 W	16706	Svojsik	5.866	0.09	1
16343	2326 T-3	6.281	0.58	2 W	16721	1995 WF ₃	14.666	0.57	2 W
16345	2391 T-3	2.9	0.2	2-	16734	1996 HZ ₂₂	8.339	0.40-0.57	2 W
16347	3256 T-3	10.798	0.46	2 W	16743	1996 OQ	2.743	0.18-0.19	2 W
16353	1974 WB	216.629	0.43	2 W	16747	1996 PS ₈	2.873	0.26	2 W
16357	Risanpei	7.368	0.26	2 W	16754	1996 RW	3.281	0.13	2 W
16358	Plesetsk	6.560	0.47	3	16756	1996 RQ ₁₁	5.519	0.32	2 W

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Planet	Period	Variation	Note	Planet	Period	Variation	Note
16765 Agnesi	7.546	0.31	2 W	17163 Vasifedoseev	4.112	0.23	2 W
16773 1996 VO ₁	5.345	0.45	3	17170 Vsevustinov	3.3750	0.16	3
16774 1996 VP ₁	18.562	0.08	1 W	17171 1999 NB ₃₈	64.79	0.66	2
16776 1996 VA ₈	97.879	1.07	2 W	17172 1999 NZ ₄₁	47.02	0.83	3-
16786 1997 AT ₁	4.02	0.50-0.52	2 p s	17177 1999 TA ₄₁	7.313	0.28	2 W
16790 Yuuzou	8.576	0.38	2 W	17178 1999 TK ₂₁₈	9.067	0.46	2 W
16804 Bonini	10.8634	0.61	3	17182* 1999 VU	6.61	0.15	2
16806* 1997 SB ₃₄	23.449	0.75	2-	17188* 1999 WC ₂	5.0638	0.44-0.45	3
16808 1997 TV ₂₆	20.43	0.81	2-	17198 Gorjup	3.2430	0.12	3
16813 1997 UT ₆	8.768	0.24-0.29	2 A	17215 Slivan	4.534	0.41	2 W
16815 1997 UA ₉	2.9174	0.18-0.20	3-	17217 2000 AR ₂₄₃	8.072	0.97	2 W
16816* 1997 UF ₉	2.4	0.12	2-	17226 2000 CC ₇₆	2.926	0.26	2 W
16819 1997 VW	274.922	0.50	2 W	17246 Christophedumas	>10.	>0.15	B
16825 1997 VC ₈	2.46	0.08	2 W	17249 Eliotyong	3.53	0.23	1+
16831* 1997 WM ₂₁	8.1072	0.14-0.16	2+	17251 Vondracek	3.780	0.10	2 W
16834 1997 WU ₂₂	9.345	0.29-0.60	3	17252 2000 GJ ₁₂₇	8.824	0.21-0.23	3
16843 1997 XX ₃	275.	0.41	2 T?	17260 Kušnirák	3.1285	0.15-0.17	3 B
16847 Sanpolaomosciano	8.182	0.56	2 p W	17266 2000 KT ₆	6.627	0.20	2 W
16849 1997 YV	6.0472	0.75	3	17267 2000 KY ₄₈	4.149	0.26	2 W
16852* Nuredduna	6.299	0.30	3	17269 Dicksmith	18.391	0.27	2 W
16858 1997 YG ₁₀	5.232	0.24	2 W	17271 2000 LL ₂	7.506	0.26	2 W
16864 1998 AL	19.166	0.31	2 W	17274 2000 LC ₁₆	16.495	0.33	3
16872 1998 BZ	2.810	0.45	2 W	17288 2000 NZ ₁₀	4.3	0.15	2
16875 1998 BD ₄	5.323	0.66	2 W	17293 2743 P-L	23.24	0.55	1 W
16876 1998 BV ₆	25.940	0.38	2 W	17294 2787 P-L	4.443	0.53	2 W
16879 Campai	314.247	0.68	2 W	17296 3541 P-L	6.205	0.71	2 W
16885 1998 BX ₂₅	4.992	0.36	2 W	17297 3560 P-L	116.765	0.74	2 W
16886 1998 BC ₂₆	5.9908	0.18	3-	17299 4168 P-L	22.678	0.72	2 W
16890 1998 BJ ₃₃	57.555	0.97	2 W	17302 4610 P-L	5.015	0.70	2
16892 Vaissière	3.33	0.18	2 W	17305* Caniff	16.85	0.28	2+
16896 1998 DS ₉	708.	0.43	3- T?	17306 4865 P-L	3.128	0.28	2 W
16903 1998 DD ₁₅	14.862	0.62	2 W	17311 6584 P-L	20.793	0.34	2 W
16909 Miladejager	6.786	0.38	2 W	17314 Aisakos	9.67	0.34	3
16917 1998 FB ₂₉	321.546	0.69	2 W	17325 3300 T-1	6.4481	0.90-0.99	3
16923 1998 FB ₆₁	5.916	0.57-0.59	2 W	17335 2281 T-2	4.225	0.57	2 W
16924 1998 FL ₆₁	4.399	0.50	2	17347 3449 T-3	2.748	0.29	2 W
16927 1998 FX ₆₈	33.856	0.73	3	17348 4166 T-3	3.580	0.15	2 W
16935 1998 FX ₁₁₁	6.298	0.70-0.82	3	17365 1978 VF ₁₁	12.672	0.51-0.98	3
16936 1998 FJ ₁₂	>8.	0.1	1	17382 1981 EH ₁₁	4.973	0.38	2 W
16943* 1998 HP ₄₂	16.764	0.67	3-	17383 1981 EE ₁₂	7.4	0.07	1
16950 1998 JQ	3.028	0.12	2 W	17388 1981 EZ ₂₄	6.896	0.08	1 W
16954 1998 KT ₄₈	2.842	0.29	2 W	17395 1981 EA ₄₄	4.522	0.27	2 W
16955* 1998 KU ₄₈	5.2608	0.42-0.51	3 p	17399 Andysanto	2.692	0.07	3-
16956 1998 MQ ₁₁	8.84	0.28	2	17405 1986 VQ ₂	5.076	0.42	2 W
16959 1998 QE ₁₇	3.2266	0.30-0.45	3	17409 1988 BA ₄	3.849	0.21	2 W
16960 1998 QS ₅₂	5.789	0.24-1.40	2 A	17411 1988 DF ₃	6.454	0.07	1 W
16974 lphthime	78.9	0.25	2+	17414 1988 RN ₁₀	1.02	1.02	1
16977 1999 AS ₃	50.070	0.25	2 W	17416 1988 RR ₁₀	40.966	0.44	2 W
16979 1999 AO ₄	3.845	0.65	2 W	17417 1988 RW ₁₀	6.724	0.48	2 W
17000 Medvedev	6.856	0.59-0.69	2 W	17418 1988 RT ₁₂	6.075	0.12	2 W
17007 1999 CK ₆₅	11.144	0.18	3-	17419 1988 RH ₁₃	19.233	0.26	2 W
17009 1999 CM ₇₀	2.730	0.10	1 W	17428 Charleroi	6.034	0.12-0.19	3 p
17010 1999 CQ ₇₂	15.781	0.63-1.00	3	17430 1989 KF	2.227	0.08	1 W
17014* 1999 CY ₉₆	3.92	0.66	2	17432 1989 SR	4.089	0.37	2 W
17030 Sierks	416.198	0.31	2 W	17438 Quasimodo	3.010	0.28	2 W
17035 Velichko	2.899	0.23-0.29	2	17447 Heindl	2.569	0.18	3
17038 Wake	17.658	0.23	2 W	17452 Amurreka	12.772	0.61	2 W
17060 Mikecombi	11.4	0.33	2-	17457 1990 SC ₁₁	4.157	0.18	2 W
17068 1999 GO ₁₉	4.274	0.56	2 W	17469 1991 BT	17.172	0.23	2 W
17074 1999 GQ ₃₆	33.375	0.31	2 W	17470 Mitsuhashi	12.6	0.68	2-
17079 Lavrovsky	4.18	0.45	2+	17479 1991 PV ₉	3.146	0.31-0.34	2+
17083 1999 JB ₄	6.147	0.07	2+	17492 Hippasos	17.75	0.21	3
17091 Senthair	679.872	0.07	1 W	17495 1992 DY	84.796	0.60	2 W
17100 Kamiokanatsu	7.065	0.18	2 W	17509 Ikumadan	5.788	0.40	3
17102 Begzhigitova	5.341	0.3	2	17511 1992 QN	5.9902	0.79-1.10	3 p
17105 1999 JC ₄₇	3.513	0.41	2	17519 Pritsak	5.727	0.23	2 W
17111 1999 JH ₅₂	8.89847		p Ns	17535 1993 FF ₄₀	3.602	0.37	2 W
17113 1999 JE ₅₄			HNW	17543 Sosva	7.582	0.37-0.43	2 W
17119 Alexisrodzr	17.794	0.46-0.60	2 W	17556 Pierofrancesca	9.17	0.70	3
17122 1999 JH ₆₃	290.079	0.09	1 W	17567 Hoshinoyakata	19.882	0.40	2 W
17124 1999 JC ₆₅	3.37	0.30	2-	17568 1994 GT ₈	3.165	0.26	2 W
17127 1999 JE ₆₉	240.669	0.85	2 W	17573 1994 PJ ₁₃	4.931	0.19-0.20	2 W
17129 1999 JM ₇₈	6.2615	0.44-0.51	3	17574 1994 PT ₁₃	2.663	0.32	2 W
17137 1999 JK ₈₄	11.510	0.40	2 W	17583 1994 WV ₂	4.279	0.23	2 W
17148 1999 JJ ₁₀₅	2.7778	0.20-0.25	2+	17584* 1994 XF ₁	4.6392	0.35-0.56	3-
17149 1999 JM ₁₀₅	138.110	0.50	2 W	17590 1995 CG	49.6	0.40-0.55	2
17150 1999 JP ₁₀₉	6.268	0.14	2 W	17591 1995 DG	6.558	0.37	2 W
17152 1999 JA ₁₁₈	9.4161	0.22	3	17592 1995 DR	3.25	0.10	2 W
17157 1999 KP ₆	3.72	0.17	2	17593 1995 DV	3.62	0.21	2 W
17161 1999 LQ ₁₃	7.720	0.62	2 W	17595 1995 EO	16.84	0.28	1+

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Planet	Period	Variation	Note	Planet	Period	Variation	Note
17599 1995 ON ₄	3.252	0.17-0.18	2 W	18060 1999 XJ ₁₅₆	15.50	0.48-0.50	2+
17605 1995 SR ₂₆	6.319	0.58	2 W	18062 1999 XY ₁₈₇	9.773	0.45-0.57	3
17609 1995 UR	6.545	0.55	2 W	18073 2000 CB ₈₂	5.763	0.38	2 W
17610 1995 UJ ₁	5.93	0.97	2 W	18079 Lion-Stoppato	4.09	0.39-0.43	3- W
17619 1995 VT	3.475	0.40	2 W	18081 2000 GB ₁₂₆	8.284	0.32	3
17622 1995 WW ₂	6.917	0.63	2 W	18082 2000 GB ₁₃₆	11.94	0.73-0.73	2
17626 1996 AG ₂	5.716	0.25	2 W	18096 2000 LM ₁₆	86.	0.18	2- TO
17627 Humptydumpty	42.462	0.31	2 W	18108 2000 NT ₅	2.910	0.15	3
17633 1996 JU	6.2098	0.21-0.26	2+ A	18109 2000 NG ₁₁	4.25	0.77-1.13	3
17645 Inarimori	137.351	0.69	2 W	18111 Pinet	25.927	0.10	1 W
17652 Nepoti	13.004	0.26	2 W	18118 2000 NB ₂₄	2.524	0.08	1 W
17655 1996 VL ₃	4.841	0.31	2 W	18123 Pavan	4.8	0.12	1 W
17656 Hayabusa	6.119	0.26	2 W	18125 Brianwilson	3.188	0.18	2 W
17657 Himawari	5.507	0.53	3	18126 2000 OU ₃	31.347	0.46	2 W
17663 1996 VK ₃₀	34.062	0.17	2 W	18137 2000 OU ₃₀	16.20	0.20-0.30	3
17664 1996 VP ₃₀	3.675	0.20	3	18144 2000 OO ₄₈	3.10	0.24-0.30	3
17681 Tweedledum	75.2	0.90	3 TO	18164 2000 PA ₂₀	4.068	0.57	2 W
17682 1997 AR ₁₂	21.079	0.25	2 W	18169 Amaldi	34.14	0.29	2
17683 Kanagawa	5.895	0.4	3	18178 2000 QP ₂₈	2.592	0.13	2 W
17685 1997 AJ ₁₉	5.30	0.59	2 W	18180 Irenesun	10.306	0.41	2 W
17689 1997 CS	137.105	0.46	2 W	18181 2000 QD ₃₄	5.180	0.32	3
17690 1997 CY ₂	>20.	>0.5	2 W	18186 2000 QW ₅₀	7.30	0.39-0.57	3 W
17694 Jiránek	4.65	0.33	2 W	18188 2000 QD ₅₅	11.85	0.58	2 W
17699 1997 GX ₇	8.909	0.27	2 W	18194 2000 QE ₁₀₀	16.624	0.43-0.56	2 W
17700 1997 GM ₄₀	3.839	0.15	2 W	18195 2000 QG ₁₁₆	5.25	0.71	3- W
17702 Kryštofharant	2.521	0.18	2 W	18201 2733 P-L	7.153	0.31-0.33	2 W
17715* 1997 WZ ₃₉	6.161	1.04	3- W	18219 6260 P-L	4.710	0.16-0.19	3-
17722 1997 YT ₁	8.6387	0.36	3-	18228 Hyperenor	32.839	0.20	2 W
17723 1997 YA ₄	8.282	0.11	2	18232 3322 T-1	10.990	0.25	2 W
17730* 1998 AS ₄	8.1214	0.50	3	18242 Peebles	4.249	0.37	2 W
17731 1998 AD ₁₀	4.721	0.12	2 W	18263 Anchialos	10.39	0.35	2
17736 1998 BA ₁₂	3.04	0.15	2 W	18278 Drymas	28.087	0.63	2 W
17738 1998 BS ₁₅	4.235	0.10	3	18279 4221 T-3	16.658	0.39	2 W
17747 1998 BJ ₄₂			HNW	18285 Vladplatonov	8.103	0.51-0.81	2 W
17753 1998 DZ ₅	7.867	0.79-0.93	2 W	18307 1981 ER ₁₀	60.792	0.77	2 W
17770* Baumé	3.263	0.20-0.35	2	18313 1981 EB ₂₃	3.168	0.26	2 W
17771 Elsheimer	15.97	0.46	2- HW	18323 1983 RZ ₂	3.29	0.55-0.64	2 W
17779 Migomueller	6.514	0.40	2 W	18327 1985 CX ₁	9.443	0.09	1 W
17792 1998 FR ₅₆	13.934	0.50	2 W	18335 San Cassiano	3.749	0.09	1 W
17814* 1998 FH ₁₁₃	9.22	0.39-0.80	3-	18338 1989 EP ₂	7.108	0.55	2 W
17821 Bölsche	5.934	0.32	2 W	18349 Dafydd	13.55	0.66	2 W
17822 1998 FM ₁₃₅	4.613	0.28	2+	18350 1990 QJ ₂	97.787	0.46	2 W
17823 Bartels	3.800	0.20	2 W	18353 1990 QF ₉	18.225	0.36	2 W
17834 1998 HL ₄₃	21.265	0.64-0.69	2 W	18368 Flandrau	5.777	0.89-0.90	3
17839 1998 HN ₉₅	7.141	0.30	2 W	18382 1992 EG ₂₂	5.883	0.28-0.31	2 W
17845 1998 HY ₁₁₂	6.6	0.48	2	18392 1992 PT ₄	14.763	0.21	2+
17847 1998 HQ ₁₁₅	289.840	0.64	2 W	18398 Bregenz	5.376	0.57	2 W
17848 1998 HR ₁₃₃	6.94	0.37-0.51	2+	18406 1993 FT ₁₄	6.597	0.36	2 W
17860 Roig	2.964	0.12-0.16	2 W	18414 1993 OX ₆	52.710	0.68	2 W
17862 1998 KT ₂₈	4.371	0.06	1 W	18415 1993 PW ₅	6.355	0.65	2 W
17864 1998 KK ₃₈	6.56	0.17-0.23	2	18418 Ujibe	3.470	0.23	2 W
17868 1998 KW ₄₆	4.681	0.47	2 W	18421 1993 TV ₃₄	3.603	0.30-0.31	2 W
17869 Descamps	11.934	0.43	2 W	18429 1994 AO ₁	3.911	0.15-0.23	3
17874 1998 YM ₃	9.81	0.18	2-	18433 1994 EQ	14.712	0.34	2 W
17878 1999 AR ₂₅	>20.	>0.3	2 W	18434 Mikesandras	3.137	0.17	2+
17892 Morecambewise	2.462	0.07	1 W	18439 1994 LJ ₁	18.291	0.20	3-
17894 1999 FP	9.960	0.67	2 W	18443 1994 PW ₈	2.998	0.31	2 W
17901 1999 FT ₂₅	9.70	0.46	2 W	18444 1994 PL ₁₀	4.176	0.34-0.41	2 W
17915* 1999 GU	3.580	0.25	2+	18449 Rikwouters	3.65	0.17	2 W
17919 Licandro	2.897	0.09	2 W	18454 1995 BF ₁	16.196	0.29	2 W
17923 1999 GY ₁₆	>20.	>0.1	1 W	18459 1995 FD ₁	9.241	0.41	2 W
17924 1999 GA ₁₇	6.67	0.68	2	18474 1995 WV ₃	11.345	0.85	2 W
17926 Jameswu	5.343	0.18	2 W	18479 1995 XR	2.983	0.27	2 W
17929 1999 GQ ₂₁	4.443	0.71	2 W	18481 1995 YH	7.323	0.66-0.72	2 W
17938 Tamsendrew	2.53	0.17	2-	18482 1995 YO	8.743	0.19-0.21	2 W
17939 1999 HH ₈	5.10	0.26	2	18486 1996 AS ₂	3.62	0.2 -0.34	2+
17944 1999 JF ₇	6.62	0.27	2 W	18487 1996 AU ₃	6.512	0.72	2 p
17953 1999 JB ₂₀	37.279	0.08	1 W	18493 Demoleon	14.43	0.18	2
17973 1999 JP ₅₁	10.138	0.07	1 W	18495 1996 HH ₂₄	6.5	0.22	2
17974 1999 JL ₅₂	6.834	0.69	2 W	18498 Cesaro	8.718	0.48	2 W
17981 1999 JZ ₅₆	3.134	0.56	2 W	18501 1996 OB	9.418	0.47	2 W
18007* 1999 JK ₉₇	4.447	0.15	2+	18503 1996 PY ₄	3.4390	0.25	3
18008 1999 JV ₉₉	4.708	0.22	2 W	18523 1996 VA ₇	3.413	0.35	2 W
18018 1999 JR ₁₂₅	5.608	0.77	2 W	18528 1996 VX ₃₀	11.433	0.53-0.55	2 W
18031 1999 LO ₁₄	17.78	0.27	2 W	18530 1996 XS ₁	4.27	0.17	2 W
18035 1999 NJ ₇	4.293	0.12-0.16	2 W	18532 1996 XW ₂	3.464	0.18	2 W
18042 1999 RF ₂₇	7.2998	0.64	3	18543 1997 AE	10.970	0.40	2 W
18046 1999 RN ₁₁₆	36.00	0.13	2-	18545 1997 AO ₂	3.181	0.12	2 W
18047 1999 RP ₁₄₅	11.628	0.25-0.26	2 W	18550 Maoyisheng	8.810	0.38	2 W
18058 1999 XY ₁₂₉	374.846	0.58	2 W	18570 1997 VB ₆	4.011	0.81	2 W

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Planet	Period	Variation	Note	Planet	Period	Variation	Note
18574 Jeansimon	11.055	0.07	1 W	19086 1978 VB ₃	6.26	0.70	2 W
18582 1997 XK ₉	114.	0.94	3 TO	19094 1979 MR ₆	93.901	0.72	2 W
18584 1997 YB ₂	26.159	0.08	1 W	19097 1981 EY ₂	37.698	0.74	2 W
18587 1997 YR ₅	3.20	0.27	2 W	19108 1981 EV ₂₁	3.389	0.29	2 W
18590 1997 YO ₁₀	2.95	0.11	1	19110 1981 EF ₂₉	7.078	0.77	2 W
18598 1998 BH ₈	9.507	0.29	2 W	19131 1988 CY ₃	2.94	0.51	2
18599 1998 BK ₈	10.644	0.18	2 W	19133 1988 PC ₂	80.870	0.40	2 W
18602 Lagillespie	5.76	1.31	2+ W	19136 Strassmann	10.512	0.92	2 W
18607 1998 BT ₃₃	20.761	0.08	1 W	19141 Poelkapelle	2.150	0.08	1 W
18631 Maurogherardini	14.155	0.15	2 W	19145 1989 YC	5.899	0.36	2 W
18632 Danielsson	5.225	0.20	2 W	19159 Taenakano	3.903	0.14	2 W
18641 1998 EG ₁₀	5.2461	0.57-0.97	3 p	19163 1990 WE ₅	3.387	0.28	2 W
18645 1998 EM ₁₉	3.693	0.33-0.36	2 W	19164 1991 AU ₁	32.492	0.25	3-
18647 Václavhübner	33.10	0.56	2 W	19174 1991 NS ₆	7.74	0.85	2+ W
18669 Lalitpatel	7.560	0.54	2 W	19178 Walterbothe		0.82	2 W
18671 Zacharyrice	3.306	0.16	2 W	19184 1991 TB ₆	4.99	0.45	3-
18672 Ashleyamini	10.11	0.41	2 W	19185 Guarneri	2.116	0.08	1 W
18679 Heatherenae	6.248	0.48	2 W	19204 Joshuatree	480.	0.1 -0.95	2+ B?
18682 1998 FH ₁₀₇	11.647	0.68	2 W	19208 Starrfield	8.130	0.43	2 W
18692 1998 HJ ₁₄	3.07	0.16	1 W	19210 1992 YE ₄	6.23	0.17	2 W
18699 Quigley	216.487	0.93	2 W	19231 1993 TL ₅	6.657	0.46	2 W
18700 1998 HK ₅₄	14.054	0.58	2 W	19235 van Schurman	7.485	0.28	2 W
18721 1998 HC ₁₄₆		0.56	W	19237 1994 AP	64.951	0.97	2 W
18724 1998 JV ₁	10.130	0.50	2 W	19239 1994 AM ₂	9.464	0.11-0.23	2 W
18739 Larryhu	2.603	0.08	1 W	19244 1994 CX ₁₂	7.27	0.68	2 W
18744 1999 AU	21.9	0.76	1	19246 1994 EL ₇	4.05	0.44	2 W
18745 San Pedro	3.175	0.48	2 W	19251 Totziens	18.446	0.10	2
18758 1999 HD ₂	5.132	0.74	2 W	19254 1994 VD ₇	7.380	0.31	2 W
18766 Broderick	12.152	0.59	2 W	19255 1994 VK ₈	9.	0.42	2
18776 Coulter	3.132	0.36	2 W	19260 1995 GT	21.919	0.73	2 W
18777* Hobson	10.227	0.21	2+	19261 1995 MB	4.5911	0.50-0.54	3
18787 Kathermann	41.82	0.74-1.00	3-	19275 1995 XF ₁	19.592	0.57	2 W
18797 1999 JT ₆₄		0.52	W	19276 1995 XS ₄	4.764	0.57	2 W
18804 1999 JS ₇₇	9.404	0.09	1 W	19278 1995 YN	30.650	0.23	2 W
18814 Ivanovsky	6.762	0.66	2 W	19283 1996 BJ ₂	6.238	0.50	2 W
18817 1999 LF ₃₂	7.553	0.41	2 W	19286 1996 DU	3.2368	0.70-0.71	3
18819 1999 NK ₈	2.453	0.06	1 W	19288 Egami	2.6590	0.13	N
18823 Zachozer	19.661	0.25	2 W	19289* 1996 HY ₁₂	2.8519	0.11-0.17	3-
18830 Pothier	27.215	0.10	1 W	19298 Zhongkeda	78.540	0.77	2 W
18832 1999 NV ₄₂	57.817	0.79	2 W	19300 1996 SH ₆	17.14	0.24	2+
18835* 1999 NK ₅₆	16.259	0.30-0.56	3	19302 1996 TD	10.839	0.34	2 W
18841 Hruška		0.1		19303 Chinaco	2.864	0.31	2 W
18845 Cichocki	85.616	0.41	2 W	19308 1996 TO ₆₆	7.92	0.12-0.26	2 A
18848 1999 RH ₄₁	27.768	0.13	2 W	19309 1996 UK ₁	5.21	0.06	2 A
18849 1999 RK ₅₅	16.873	0.34	2 W	19327 1996 XH ₁₉	3.9878	0.57	3-
18851 Winmesser	27.327	0.34	3-	19332 1996 YQ ₁	>24.	>0.25	2 W
18852 1999 RP ₉₁	9.66	0.66-0.70	2+ W	19333 1996 YT ₁	2.83	0.19	2+
18853 1999 RO ₉₂	5.599	0.49-0.66	2 W	19337 1997 AT	12.041	0.20	2
18861 Eugenishmidt	3.93	0.14	2 W	19356 1997 GH ₃	6.714	0.74	3
18864 1999 RQ ₁₉₅	19.730	0.22	2 W	19372 1997 YP ₁₃	4.767	0.61	2 W
18865 1999 RQ ₂₀₄	5.023	0.25	2 W	19373 1997 YC ₁₄	6.519	0.54	2 W
18874 Raoulbehrend	5.3436	0.47	2+ W	19379 Labrecque	8.30	0.06	2-
18881 1999 XL ₁₉₅	2.98	0.20	3	19389 1998 DD ₁₄	7.417	0.51	2 W
18890 2000 EV ₂₆	3.8216	0.09-0.11	3 B	19391 1998 DR ₁₅	2.365	0.21	2 W
18892 2000 ET ₁₃₇	186.790	0.70	2 W	19402 1998 EG ₁₄	2.825	0.12	3-
18896 2000 GN ₁₁₃	7.22	0.54-0.66	2	19404 1998 FO ₅	10.6	0.80	2
18899 2000 JQ ₂	222.	0.13	2+ W	19408 1998 FM ₁₁	3.036	0.22	2 W
18906 2000 OJ ₁₉	77.90	0.80	3- TO	19409 1998 FA ₁₂	52.447	0.60	2 W
18922 2000 PU ₁₂	13.715	0.26	2 W	19419 Pinkham	2.496	0.15	2 W
18926 2000 PO ₂₆	4.530	0.33	2 W	19425* Nicholasrapp	9.14	0.19	3-
18930 Athreya	13.232	0.65-0.79	2 W	19426 Leal	11.492	0.08	1 W
18941 2000 QX ₅₀	9.14	0.35	2 W	19434 Bahuffman	4.78	0.17-0.23	2 W
18957 Mijacobsen	3.789	0.33	2 W	19443 Yanzhong	3.022	0.25	2 W
18958 2000 QL ₁₂₈	4.170	0.59	2 W	19449 1998 FE ₁₂₅	4.351	0.25	2 W
18977* 2000 QK ₂₁₇		0.15	N	19472 1998 HL ₅₂	3.072	0.27	2 W
18982 2000 RH ₅	9.098	0.42	2 W	19481 1998 HX ₁₀₁	5.796	0.37	2 W
18985 2000 RR ₂₁	3.09	0.11	2 W	19483 1998 HA ₁₁₆	2.6259	0.10-0.11	3
18990 2000 RW ₃₁	3.524	0.24	2 W	19485 1998 HC ₁₂₂	146.496	0.37	2 W
18992 Katharvard	3.103	0.31	2 W	19489 1998 HL ₁₄₉	2.714	0.48	2 W
19006 2000 RY ₆₅	22.139	0.44	2 W	19494 Gerbs	6.150	0.44	2 W
19019 Sunflower	3.320	0.23-0.26	2 W	19495 Terentyeva	2.33	0.12	1
19020 2000 SC ₆	9.82	0.43	2	19504 Vladalekseev	9.462	0.24	2 W
19022 Penzel	15.890	0.25-0.30	2 W	19506 1998 MN ₄	3.878	0.29	2 W
19023 Varela	7.44	0.39	2 W	19516 1998 QF ₈₀	5.4383	0.32-0.35	3
19034 Santorini	247.	0.43	2 TO	19521 Chaos		<0.10	
19040 4875 P-L	3.658	0.45	2 W	19533 Garrison	7.259	0.64	2 W
19055 1066 T-2	4.734	0.53	2 W	19535 Rowanatkinson			HNW
19056 1162 T-2	3.007	0.16	2 W	19537 1999 JL ₈	50.1	0.10	2-
19076 5002 T-3	10.090	0.71	2 W	19538 1999 JD ₁₂			HNW
19083 Mizuki	3.047	0.25	2 W	19540 1999 JF ₂₃	3.28	0.34	2 W

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Planet	Period	Variation	Note	Planet	Period	Variation	Note
19545 1999 JY ₃₃	6.416	0.39	2 W	20031 1992 OO	10.8379	0.38-0.43	3
19548 1999 JJ ₅₈	76.841	0.10	1 W	20037 Duke	5.428	0.10-0.17	2
19557 1999 JC ₇₉	6.139	0.62	2 W	20038* Arasak	6.941	0.28-0.50	3
19574 Davidedwards	37.635	0.29	2 W	20048 1993 FF ₁₉	7.032	0.24-0.34	2 W
19582 Blow	11.553	0.17	2 W	20050 1993 FO ₂₁	184.311	0.20	2 W
19594 1999 NL ₃₁	11.831	0.26-0.61	2 W	20052 1993 FS ₂₇	6.483	0.42	2 W
19598 Luttrell	131.976	0.09	1 W	20054 1993 FX ₃₇	10.058	0.17-0.20	2 W
19599 Brycemelton	13.215	0.41	2 W	20073 Yumiko	3.49	0.26	3 W
19601 1999 ND ₄₂	8.059	0.21	2 W	20077 1994 CX ₉	2.98	0.12	2+ W
19605 1999 NU ₅₂	9.182	0.14	2 W	20080 Maeharatorakichi	13.	0.05	1
19608 1999 NC ₅₇	9.194	0.55-0.57	2 W	20087 1994 PC ₇	7.275	0.82	2 W
19609 1999 ND ₅₇	12.632	0.37	2 W	20095 1994 PG ₃₅	6.81	0.50	2 W
19626 1999 RJ ₁₆	7.820	0.35-0.37	2 W	20100 1994 XM	188.389	0.83	2 W
19634 1999 RG ₄₅	4.32	0.19	2 W	20106 Morton	18.043	0.19-0.20	2 W
19640 Ethanroth	600.348	0.62	2 W	20116 1995 VE ₁	29.057	0.79-0.84	2 W
19644 1999 RD ₁₀₂	5.102	0.70	2 W	20124 1995 WJ ₃₆	16.657	0.73	2 W
19647 1999 RZ ₁₀₃	6.304	0.45	2 W	20128 1996 AK	4.790	0.29-0.52	2 W
19648 1999 RK ₁₀₄	9.320	0.73	2 W	20133 1996 CO ₂	3.354	0.30	2 W
19649 1999 RQ ₁₀₄	9.126	0.66	2 W	20136 Eisenhart	6.508	0.54-0.55	3
19653 1999 RD ₁₁₉	2.61	0.12	1 W	20137 1996 PX ₈	11.16	0.89	2- W
19659 1999 RB ₁₂₈	3.980	0.45	2 W	20150 1996 TJ ₆	6.611	0.76	2 W
19662 Stunzi	5.93	0.57-0.61	3 W	20162 1996 UD	4.68	0.17	1
19663 Rykerwatts	3.777	0.65	2 W	20163 1996 UG	5.08	0.14	2+ W
19672 1999 RP ₁₅₅	5.470	0.8	3	20179 1996 XX ₃₁	7.594	0.60	2 W
19682 1999 RW ₁₉₄	2.5353	0.21	2	20185 1997 AC ₇	3.179	0.29	2 W
19686 1999 RL ₁₉₇	49.400	0.21	2 W	20186 1997 AD ₈	4.161	0.19-0.32	2 W
19689 1999 RX ₂₀₅				20197 Enriquez	48.073	0.08	1 W
19695 Billnye	4.8676	0.30	3	20202 1997 EC ₂₅	10.105	0.44	2 W
19698 1999 SR ₄	5.381	0.53-0.59	2 W	20210 1997 GQ ₇	10.326	0.21-0.35	3
19700 Teitelbaum	16.335	0.49	2 W	20231 1997 YK	178.	0.70-0.70	2 T?
19711 Johnligawesa	54.3	0.25	1 T0	20236 1998 BZ ₇	10.182	0.17	N
19716 1999 UH ₂₃	10.477	0.35	2 W	20246 Frappa	9.304	0.49	2 W
19725 1999 WT ₄	56.70	0.22	2-	20255 1998 FX ₂	6.804	0.16-0.22	N
19732 1999 XF ₁₆₅	12.57	0.19	2	20261 1998 FM ₁₂	4.55	0.17	2 W
19733 1999 XA ₁₆₆	23.300	0.30	2 W	20279 Harel	5.380	0.40	2 W
19734 1999 XE ₁₇₅	8.4	0.09	2-	20296 Shayestorm	7.041	0.53	2 W
19741 Callahan	7.268	0.81	2 W	20300 Arjunsuri	2.62	0.12	3- W
19743* 2000 AF ₁₆₄	3.463	0.23	2+ W	20308 1998 FP ₁₀₉	6.863	0.73	2 W
19750 2000 CM ₆₂	6.462	0.30	2 W	20310 1998 FD ₁₁₇	5.488	0.07	1 W
19754 Paclements	3.462	0.60	2 W	20312 Danahy	4.569	0.22	2 W
19757 2000 GK ₁	5.192	0.45	2 W	20322 1998 HZ ₂₀	35.412	0.35	2 W
19763 Klimesh	101.	0.67	2 T?	20325 Julianoy	3.24474	0.13	NB
19764 2000 NF ₅	59.3	0.80	NT0	20327 1998 HQ ₃₉	4.388	0.29-0.37	2 W
19774 2000 OS ₅₁		0.12	N	20328 1998 HS ₄₂	3.412	0.32	2 W
19779 2000 QU ₅₃	2.67	0.39	3- W	20329 Manfro	8.80724		p Ns
19781 2000 QK ₆₈	5.480	0.22	2 W	20333 Johannhuth	4.168	0.12	2 W
19793 2000 RX ₄₂	3.102	0.28-0.38	2+ W	20337 Naeve	4.201	0.56	2 W
19803 2000 RX ₉₀	2.7	0.17	2	20349 1998 HU ₁₂₃	5.246	0.39	2 W
19812 2000 SG ₁₁₉	3.182	0.30	2 W	20350 1998 HV ₁₂₅	90.234	0.61	2 W
19848 Yeungchuchiu	3.450	0.63-0.70	3 p	20371 Ekladyous	184.408	0.54	2 W
19852 Jamesalbers	9.163	0.18	2 W	20378 1998 KZ ₄₆	5.14	0.32	3-
19856 2000 UP ₈	3.347	0.42	2 W	20392 Mikeshepard	29.2	0.75	2
19878 1030 T-1	7.958	0.50	2 W	20394 Fatou	212.503	0.62	2 W
19898 1177 T-3	2.558	0.42	2 W	20395 1998 MY ₂₉	8.201	0.17	2 W
19902 3420 T-3	8.32	0.44	3- W	20413 1998 QY ₉₁	2.221	0.20	2 W
19906 4138 T-3	25.958	0.24	2 W	20419 1998 SE ₁₁₇	5.500	0.31-0.79	2 W
19907 4220 T-3	4.327	0.35	2 W	20421 1998 TG ₃	11.8905	0.16	3
19908 4324 T-3	5.642	0.51	2 W	20428 1998 WG ₂₀	14.81	0.75	2 W
19910 5078 T-3	8.955	0.32	2 W	20429 1998 YN ₁	2.7180	0.16	N
19912 Aurapenta	2.340	0.17	2 W	20446* 1999 JB ₈₀	3.199	0.24-0.33	3-
19913 Aigyptios	40.43	0.15	2+ W	20452 1999 KG ₄	3.849	0.34	3
19917 1977 EE ₈	5.219	0.56-0.76	2 W	20453 1999 KL ₆	3.911	0.12	2+ W
19918 1977 PB	7.6897	0.12-0.92	3-	20460 Robwhiteley	2.7209	0.07-0.09	2+ W
19919 Pogorelov	13.511	0.85	2 W	20462 1999 LZ ₃₁	3.480	0.52	2 W
19924 1979 MQ ₆	5.333	0.66	2 W	20465 Vervack	3.140	0.26	2 W
19925 1979 QD ₃	14.747	0.32	2 W	20470 1999 NZ ₅	3.6637	0.24-0.30	3
19926 1979 YQ	55.253	0.17-0.25	2 W	20473 1999 NS ₈	21.958	0.23	2 W
19928 1981 DB ₃	3.429	0.18	2 W	20484 Janetson	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 BX ₁	7.173	0.23	2 W	20491 Ericstrege	5.156	0.57	2 W
19966 1987 SL ₃	3.079	0.09	2 W	20503 Adamtazi	21.650	0.69	2 W
19971 1988 RZ ₅	6.182	0.10	1 W	20507 1999 RU ₁₉	10.283	0.24-0.28	2 W
19977 1989 TQ	10.4306	1.04-1.10	3	20514 1999 RD ₃₄	4.291	0.83	2 W
19979 1989 VJ	7.568	0.29-0.29	2+ W	20521 1999 RM 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 Traciarcer	4.82	0.24-0.40	3- W
20000 Varuna	6.3436	0.41-0.5	3	20537 Sandraderosa	15.626	0.20	2 W
20009 1991 OY	2.97	0.24-0.26	2 W	20538 1999 RN ₈₄	5.784	0.39	2 W
20011 1991 PD 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 RZ ₉₈	10.506	0.22	2 W

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Planet		Period	Variation	Note	Planet		Period	Variation	Note
20545	Karenhowell	28.299	0.20	2 W	20953	1068 T-3	16.462	0.09	1 W
20553	Donaldhowk	5.255	0.14	2 W	20979	1981 EO ₁₃	10.892	0.41	2 W
20561	1999 RE ₁₂₀	4.550	0.44-0.61	3-	20995	1985 VY	10.474	0.49	2 W
20562	1999 RV ₁₂₀	135.4	0.43	2+ T0	20996	1986 PB	43.6	0.38-0.4	2+ T0
20570	Molchan	4.132	0.54	2 p s	21002	1987 QU ₇	121.586	0.41	2 W
20571	Tiamorrison	450.	0.60	2- T0W	21003	1987 YV ₁	9.278	0.51	2 W
20573	Garynadler	4.02	0.24	1 W	21008	1988 PE	2.807	0.14	2 W
20579	1999 RX ₁₄₉	3.242	0.19	2 W	21018	1988 VV ₁	5.172	0.30-0.37	2 W
20580	Marilpeters	3.14	0.38	3 W	21019	1988 VC ₂	4.031	0.68	2 W
20586	Elizkolod	3.23	0.24	3 W	21022	Ike	7.550	0.40	3
20596	1999 RX ₁₈₈	18.386	0.38	2 W	21023	1989 DK	7.598	0.17-0.29	3
20599	1999 RD ₁₉₆	2.866	0.20	2 W	21027	1989 SR ₅	3.527	0.27	2 W
20601	1999 RD ₁₉₇	3.343	0.18-0.19	2 W	21028	1989 TO	3.6644	0.12-0.46	3 p
20604	Vrishikpatil	5.947	0.51	2 W	21033	Akahirakiyozo	17.291	0.07	1 W
20606	Widemann	26.006	0.45	2 W	21041	1990 QO ₁	5.077	0.75	2 W
20610	1999 RK ₂₃₅	7.389	0.71	2 W	21047	Hodierna		1.1	1
20614	1999 SN ₃	48.6	0.35	2	21056	1991 CA ₁	5.60	0.10-0.26	3-
20623	Davidyoung	19.936	0.34-0.45	2 W	21067	1991 PY ₁	2.058	0.10	1 W
20635	1999 TV ₉₆	5.488	0.37	2 W	21086	1992 AO ₁	19.025	0.33	2 W
20636	1999 TC ₉₇	29.701	0.44	2 W	21088	Chelyabinsk	22.49	>0.13	3
20639	Michellouie	3.506	0.22-0.27	2 W	21101*	1992 OJ ₁	7.889	0.60-0.84	3-
20660	1999 UF	13.056	0.40	2 W	21103	1992 OB ₃			HNW
20665	1999 UQ ₈	9.337	0.56	2 W	21104	Sveshnikov	2.840	0.23-0.26	3-
20674*	1999 VT ₁	6.311	0.78	3	21107	1992 PZ ₄	3.289	0.13	2-
20676	1999 VA ₇	5.605	0.34	2 W	21111	1992 RP ₃	3.285	0.14	2 W
20681	1999 VH ₁₀	8.974	0.27	2 W	21114	1992 RS ₅	3.804	0.39	2 W
20686	Thottumkara	15.182	0.53	2 W	21119	1992 UJ	12.886	0.70-0.77	2 W
20688	1999 VR ₆₂	4.657	0.36-0.37	2 W	21126	Katsuyoshi	5.8397	0.24	3
20690	Crivello	4.68	0.22	2 W	21146	1993 FD ₆₇	2.53	0.32	2 W
20691	1999 VY ₇₂	2.6990	0.11-0.18	3	21149	Kenmitchell	7.22	0.14	2
20694	1999 VT ₈₂	3.322	0.36	2 W	21166	1993 XH	11.764	0.49	2 W
20699	1999 VJ ₁₄₄	2.80	0.02	1	21168	1994 AC ₈	6.00	0.18-0.24	2 W
20703	1999 VC ₂₀₃	6.020	0.46	2 W	21171	1994 CG ₁	2.668	0.47	2 W
20709	1999 XM ₈	6.743	0.36	2 W	21181	1994 EB ₂	33.8	0.35	2
20711	1999 XF ₁₂	22.872	0.42	2 W	21206	1994 PT ₂₈	203.833	0.85	2 W
20713*	1999 XA ₃₂	3.5	0.23-0.25	2	21207	1994 PH ₂₉	>120.	>0.5	HNW
20714	1999 XS ₃₆	4.22	0.19	2 W	21212	1994 PG ₃₉	4.36	0.37	2
20724	1999 XO ₁₁₆	9.874	0.55	2 W	21213	1994 RL ₇			HNW
20725	1999 XP ₁₂₀	3.60129		2 p Ns	21217	1994 VM ₁	11.791	0.30	2 W
20729	1999 XS ₁₄₃	5.72	0.13-0.33	2	21220	1994 WE ₄	4.321	0.67	2 W
20730	Jorgecarvano	4.537	0.30	2 W	21222	1995 BT	4.020	0.13	2 W
20733	1999 XE ₁₆₈	3.871	0.35	2 W	21229	Sušil	6.11	0.58	2 W
20735	1999 XU ₁₆₉	7.855	0.45	2 W	21261	1996 FF	3.260	0.31	3
20740	Sémery	7.970	0.87	2 W	21272	1996 SA ₁	2.801	0.17	2 W
20744	2000 AO ₁₅₁	28.64	0.29	2-	21275	Tosiyasu	6.971	0.30-0.33	2 W
20747	2000 AM ₁₈₆	5.422	0.13	2 W	21302	Shirakamisanchi	3.884	0.30	2 W
20749	2000 AD ₁₉₉	>12.	>0.3	1 P	21310	1996 XM ₅	>12.	0.5	1+
20762	2000 EE ₃₆	8.891	0.46	3-	21321	1997 AN ₂	13.92	0.11	2 A
20774	2000 RP ₃	3.789	0.17	2 W	21322	1997 AV ₂	7.689	0.69	2 W
20788	2000 SB ₂₉	13.343	0.45	2 W	21335	1997 BO ₃	>6.	>0.35	2
20790	2000 SE ₄₅	2.792	0.04	1 N	21338	1997 CZ	16.838	0.15	2 W
20794	Ryanolson	2.645	0.04	1 W	21341	1997 CV ₁₀	3.502	0.56	2 W
20796	Philipmunoz	272.799	0.46	2 W	21358	Mijerbarany			HNW
20805	2000 SC ₂₂₀	18.634	0.07	1 W	21361	Carsonmark	20.22	0.40	1 DW
20809	Eshinjolly	4.304	0.44	2 W	21368	Shiodayama	9.233	0.31	2 W
20812	Shannonbabb	4.40	0.31	3-	21369	Gertfinger	100.925	0.09	1 W
20813	Aakashshah	9.821	0.21	2 W	21374	1997 WS ₂₂	3.405	0.07-0.17	2
20815	2000 SZ ₃₁₈	11.020	0.17-0.18	2 W	21384	1998 EB ₁₀	3.22	0.27	2-
20826	2000 UV ₁₃	5.313	0.31	3-	21389	Pshenichka	12.476	0.82	2 W
20838	2000 UY ₅₃	9.486	0.45	2 W	21395	Albertofilho	7.178	0.60	2 W
20842	2000 UG 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	11.02020		2 p Ns
20875	2000 VU ₄₉	136.697	0.65	2 W	21415	Nicobrenner	3.37	0.39-0.43	3 W
20885*	2000 WD ₂	3.038	0.16-0.21	3	21432	Polingloh	393.044	0.73	2 W
20887	Ngwaikin	5.723	0.18	2 W	21436	Chaoyichi	2.87	0.05	2
20889	2000 WB ₁₅	5.864	0.35	2 W	21485	Ash	12.260	0.76	2 W
20891	2000 WN ₂₈	20.417	0.28	2 W	21486	1998 HA ₁₄₈	12.3	1.0	2-
20898	Fountainhills	12.84	0.20	3	21489	1998 JU	7.124	0.71	2 W
20899	2000 XB ₃		>0.04		21496	Lijianyang	4.542	0.27	2 W
20900	2000 XW ₄	203.774	0.21	2 W	21501	Acevedo	6.569	0.10	1 W
20902	Kylebeighle	5.430	0.39	2 W	21504	Caseyfreeman	44.568	0.25	2 W
20906	2727 P-L	11.57	0.68	2	21509	Lucascavin	5.784	0.23-0.30	3
20912	4129 P-L	4.959	0.04	2	21521	Hippalgaonkar	3.226	0.24	2 W
20932	2258 T-I	4.3245	0.09-0.17	3 B?	21525	1998 MP ₂₃	9.213	0.49-0.53	2 W
20936	Nemrut Dagi	3.2754	0.05-0.15	3	21528	Chrisfaust	3.918	0.33	2 W
20942	2092 T-2	2.345	0.12-0.18	2 W	21530	Despiau	3.010	0.28	2 W
20943	2115 T-2	2.591	0.22	2 W	21540	Itthipanyanan	15.289	0.56	2 W

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Planet	Period	Variation	Note	Planet	Period	Variation	Note
21550 Laviollette	13.61	0.32	2	22161 Santagata	8.541	0.38	2 W
21554 Leechaohsi	6.321	0.51	2 W	22165 Kathydouglass	78.114	0.43	2 W
21556 Christineli	12.370	0.12	2 W	22166 2000 WX ₁₅₄	800.	0.46	2 TO
21557 Daniellitt	4.233	0.52	2 W	22171 Choi	72.498	0.58	2 W
21558 Alisonliu	4.866	0.12	3	22176 2000 XG ₃₆	4.794	0.48	2 W
21565 1998 QZ ₁₀₂	8.73	0.18	1+	22180 2000 YZ	19.39	0.23-0.50	2+
21566 1998 QM ₁₀₃	3.084	0.25	2 W	22181 2000 YA ₆	5.673	0.60-0.90	2 W
21580 Portalatin	3.627	0.28	2 W	22191 Achúcarro	6.701	0.65-0.73	2 W
21593* 1998 VL ₂₇	10.747	0.80-0.99	2+ HW	22195 Nevadodelruiz	14.56	0.19	2 A
21594 1998 VP ₃₁	5.5865	0.26	2+	22206 6735 P-L	4.601	0.28	2 W
21599* 1998 WA ₁₅	12.651	0.39-0.49	2+ HW	22225 4091 T-2	4.061	0.38	2 W
21601* 1998 XO ₈₉	12.65	0.25-0.30	2+	22229 5415 T-2	14.520	0.57	2 W
21605 Reynoso	5.172	0.65	2 W	22231 2239 T-3	3.417	0.17	2 W
21607 Robel	12.129	0.60	3	22236 3535 T-3	3.003	0.33	2 W
21609 Williamcaleb	112.	>0.5	2 TO	22258 1979 MB ₃	12.260	0.61	2 W
21615 Guardamano	2.964	0.14	2 W	22275 Barentsen	40.424	0.52-0.67	3
21619 Johnshopkins	5.256	0.23	2 W	22280* Mandragora	28.48	0.09	2
21625 Seira	3.084	0.24	2 W	22295 1989 SZ ₉	3.80	0.04	2
21632 Suwanasri	8.629	0.62	2 W	22298 1990 EJ	2.98554		S
21643 Kornev	3.654	0.08	1 W	22305 1990 SD ₂	2.751	0.22	2 p Ns
21652 Vasishtha	16.29	0.75-0.9	3	22319 1991 PX ₆	17.698	0.2 -0.50	2 W
21663 Banat	9.6	>0.02	1	22321 1991 RP	10.414	0.1	2 W
21666 1999 RW ₁	7.493	0.73	2 W	22324 1991 RQ ₉	3.734	0.72	2 W
21688 1999 RK ₃₇	5.6960	0.68-0.80	3	22338 Janemojo	3.107	0.1 -0.11	2 W
21705 Subinmin	3.46	0.52-0.60	2 W	22339 1992 OL ₃	8.350	0.54	2 W
21707 Johnmoore	2.58	0.11	2 W	22343 1992 RM ₅	6.047	0.65	2 W
21714 Geoffreywoo	3.162	0.49	2 W	22357 1992 YJ	103.	0.54	2 TO
21720 Pilishvili	4.	0.14	N	22411 1995 TR	5.262	0.23	2 W
21723 Yinyinwu	297.889	0.47	2 W	22412 1995 UQ ₄	4.487	0.25	3-
21745 Shadfan	2.77	0.12	2 W	22418 1995 WM ₄	3.22	0.28	1+
21748 Srinivasan	33.040	0.54	2 W	22419 1995 WP ₅	2.553	0.18	2 W
21766 1999 RW ₂₀₈	5.841	0.63-0.68	3	22424 1995 YS ₂₁	6.823	1.01	2 W
21770 Wangyiran	7.862	0.37	2 W	22425 1996 AZ	8.386	0.40	2 W
21775 Tsiganis	26.139	0.34	2 W	22437 1996 GR ₂₀	4.683	0.39	2 W
21790 1999 SN ₇	14.943	0.88	2 W	22442 Blaha	4.38	0.71-0.73	2 W
21792 1999 ST ₇	15.248	0.11	2 W	22451 Tymothycoons	2.715	0.15	2 W
21795 Masi	13.862	0.68	2 W	22463 1997 AT ₁₃	4.496	0.91	2 W
21805 1999 TQ ₉	309.294	0.40	2 W	22478* 1997 EM ₄₈	21.6	0.25	2 W
21816 1999 TE ₃₁	>20.		N	22481 Zachlynn	10.244	0.52	2 W
21826 Youjiazhong			HNW	22486 1997 GZ ₂₂	5.157	0.59	2 W
21842 1999 TH ₁₀₂	9.458	0.49	2 W	22491 1997 GX ₃₂	27.012	0.42	2 W
21848 1999 TO ₁₁₆	10.035	0.26	2 W	22497 Immanuelfuchs	5.952	0.26	2 W
21873 Jindřichůvhradec	50.587	0.61	2 W	22501 1997 PR ₃	4.21	0.45	2 W
21893* 1999 VL ₄	4.02	0.40	2+	22513 1998 BX ₃₂			HNW
21900 Orus	13.45	0.18	2 p	22515 1998 DJ ₁₅	6.558	0.96	2 W
21910 1999 VT ₂₃	9.4	0.35	2	22543 Ranjan			HNW
21928 Prabakaran	12.616	0.35	2 W	22550 Jonsellon	2.80	0.21-0.25	2+
21946 1999 VD ₁₃₈	2.141	0.06	1 W	22558 Mladen	3.452	0.35	2 W
21954 1999 VU ₁₇₈	115.666	0.41	2 W	22577 Alfiuccio	4.370	0.36	2 W
21955 1999 VW ₁₇₈	5.716	0.44	2 W	22586 Shellyhynes	23.600	0.10	1 W
21976 1999 XV ₂		0.17	N	22600 1998 HH ₁₂₃	3.23	0.15	2
21982 1999 XL ₈	2.059	0.09	1 W	22601 1998 HD ₁₂₄	11.8785	0.76	3
21993 1999 XH ₂₆	5.830	0.68	2 W	22603 Davidocconnor	3.11	0.13	2 W
21996 1999 XP ₃₁	6.872	0.36-0.45	2 W	22609 1998 JT ₁	98.424	0.09	1 W
22001 1999 XY ₄₁	9.64	0.16	1+ DAW	22619 Ajscheetz	6.15	0.40	2 W
22013 1999 XO ₈₉	6.5	0.20	2	22632 DiNovis	4.529	0.68-0.95	2 W
22018 1999 XK ₁₀₅	17.0575		S	22637 1998 MR ₂₂	3.136	0.15	2 W
22034 1999 XL ₁₆₈	3.35	0.20-0.67	1	22645 Rotblat	6.094	0.22	2 W
22038 Margarshain	4.721	0.50	2 W	22656 Aaronburrows	36.859	0.22	2 W
22044 1999 XS ₂₀₆	5.265	0.29-0.42	2 W	22657 1998 QN ₈	3.166	0.17-0.18	2 W
22056* 2000 AU ₃₁	358.	0.87-0.98	2+ HW	22661 1998 QP ₁₇	19.111	0.53	2 W
22058* 2000 AA ₆₄	17.04	0.23	2	22662 1998 QL ₁₈	16.460	0.45-0.56	2 W
22062 2000 AL ₉₉	10.581	0.48	2 W	22666 Josephchurch	5.218	0.22	2 W
22064 Angelalewis	5.156	0.26	2 W	22678 1998 QB ₄₂	21.801	0.96	2 W
22070 2000 AN ₁₀₆		1.0	I	22685 Dominguez	17.482	0.23	2 W
22080 Emilevasseur	3.487	0.12	2 W	22696 1998 QT ₁₀₅	7.8	0.26	2
22081 2000 AA ₁₆₅	3.372	0.19	2 W	22712 1998 RF ₇₈	177.121	0.58	2 W
22083 2000 AN ₁₆₅	10.062	0.68	2 W	22717 Romeuf	10.94	0.54	N
22087 2000 AZ ₁₇₅	2.318	0.29	2 W	22722 Timothycooper	10.934	0.50	3-
22092 2000 AQ ₁₉₉	18.854	0.35	2 W	22739 Sikhote-Alin	20.750	0.51	2 W
22096 2000 AF ₂₂₉	29.947	0.17	2 W	22742 1998 TX ₅	6.62	0.21	2 W
22099 2000 EX ₁₀₆	6.334	0.40-0.41	3	22753 1998 WT	10.24	0.11	2 A
22100 2000 GV ₉₃	135.729	0.27	2 W	22764 1999 AX ₃	76.886	0.80	2 W
22112 Staceyraw	38.610	0.60	2 W	22766* 1999 AE ₇	3.42085	0.41-0.45	3
22121 2000 SM ₁₀₇	537.544	0.05	1 W	22769 Aurelianora	12.172	0.54	2 W
22124 2000 ST ₁₈₃	4.76	0.92	1 DAW	22771 1999 CU ₃	3.7820	0.12-1.25	3
22131 2000 UK ₄	22.86	0.42	1+ W	22776 Matossian	3.407	0.26	3-
22135 2000 UA ₁₀₀	393.	0.25	2-	22791 Twarog	19.697	0.08	1 W
22148 Francislee	8.326	0.50	2 W	22793* 1999 NW ₁	67.0	0.44	2
22149 2000 WD ₄₉	7.84	0.20	2	22802 Sigiriya	4.29	0.39	2 W

MINOR PLANET LIGHTCURVE PARAMETERS

Planet	Period	Variation	Note	Planet	Period	Variation	Note				
22805	1999 RR ₂	5.334	0.30	2	W	23415	1979 MQ ₃	10.796	0.64	2	W
22812	Ricker	129.207	0.58	2	W	23416	1979 MU ₄	7.021	0.70	2	W
22823	1999 RN ₃₈	4.863	0.07	1	W	23422	1981 DF ₁	4.931	0.42	2	W
22844	1999 RU ₁₁₁	5.763	0.38-0.46	2	W	23429	1981 EO ₃₅	6.15	0.12	1	W
22862	Janinedavis	13.374	0.53	2	W	23436	Alekfursenko	3.628	0.42	2	W
22872	Williamweber	4.03	0.42	3-		23438	1984 SZ ₅	8.342	0.44-0.47	2	W
22895	1999 TV ₅	7.537	0.64	2	W	23446	1987 SJ ₂	2.849	0.30-0.57	2	W
22899*	Alconrad	4.03	0.14-0.19	2	B	23476	1990 VE ₄	2.815	0.08	2	W
22904	1999 TL ₁₉		0.51	2	W	23478	1991 BZ	133.406	0.36	2	W
22905	Liciniotoso	389.646	0.42	2	W	23480	1991 EL	4.07	0.35		N
22908	Bayefsky-Anand	16.375	0.57	2	W	23481*	1991 GT ₄	5.958	0.65	3	
22917	1999 TA ₇₇	25.806	0.38	2	W	23482	1991 LV	3.357	0.17-0.34	2	W
22932	Orenbrecher				HNW	23494	1991 SE ₂	4.343	0.27	2	W
22941	1999 TG ₁₉₄	20.039	0.31	2	W	23496*	1991 VN ₃	2.470	0.18	2	W
22945	Schikowski	6.824	0.91	2	W	23500	1992 AT ₂	3.189	0.42	2	W
22949	1999 TH ₂₃₈	6.644	0.39-0.41	2	W	23501	1992 CK ₁	132.695	0.65-0.82	2	W
22960	1999 UE ₄	5.892	0.06	1	W	23507	1992 EQ ₁₃	3.11	0.18	2	W
22965	1999 UX ₄₀	7.637	0.23	2	W	23521	1992 US ₁	14.464	0.66	2	W
22973	1999 VW ₁₆	97.832	0.72	2	W	23533	1993 PU ₅	4.230	0.24	2	W
22977	1999 VF ₂₄	4.532	0.13	3-		23534	1993 QP ₃	12.97	0.18	2-	W
22979	1999 VG ₂₅	2.71	0.12	1+		23543	1993 UK	6.034	0.22	2	W
22988	Jimmyhom	24.90	0.2	1+	W	23547	Tognelli	5.798	0.66	2	W
22998	Waltimyer	4.944	0.43	2	W	23552	1994 NB	3.629	0.36	2	W
23002	Jillhirsch	6.62	0.52	2	W	23574	1995 BX	4.555	0.47	2	W
23004	1999 VH ₁₁₄	7.147	0.78	2	W	23578	Baedeker	8.17154			p Ns
23007	1999 VC ₁₄₅	3.703	0.17	2	W	23581	1995 OE ₅	3.10	0.18	2	W
23021	1999 WR ₃	3.50	0.16	2	W	23587	Abukumado	3.054	0.13	3	W
23025	1999 WR ₉	19.335	0.59	2	W	23588	1995 UX ₃	7.197	0.15	2	W
23026	1999 WV ₉	>8.	>0.05			23597	1995 WY ₄	4.994	0.52	2	W
23031	1999 XX ₇	3.075	0.43-0.52	3		23598	1995 WL ₁₃	10.577	0.54	2	W
23049	1999 XT ₃₀	4.32	0.49-0.52	2	W	23615	1996 FK ₁₂	368.	0.23	2	B?
23056	1999 XL ₄₄	6.647	0.42	2	W	23621	1996 PA	2.6649	0.07-0.10	3	B
23058	1999 XP ₄₅	13.701	0.54	2	W	23630	1996 YA ₃	7.06	0.22	2	W
23061	Blueglass	174.570	0.51	2	W	23654	1997 CC ₂₆	6.14	0.49	1	DW
23073	1999 XT ₇₅	2.744	0.09	1	W	23657	1997 CB ₂₈	4.073	0.56	2	W
23092	1999 XT ₁₃₆	3.078	0.47	3-		23668	Eunbekim	10.726	0.57	2	W
23097	1999 XF ₁₅₇	13.22	0.44	2	W	23676	1997 GR ₂₅	5.010	0.62	2	W
23112	2000 AG ₃	long	>0.1			23678	1997 GW ₃₂	8.01	1.13	2	W
23123	2000 AU ₅₇	467.257	0.57	2	W	23681	Prabhu	36.5	0.45	2	W
23134	2000 AU ₁₄₂	4.189	0.56	2	W	23690	1997 JD ₁₄	2.861	0.30	2	W
23135	2000 AN ₁₄₆	8.69	0.27-0.27	3-		23692	1997 KA	10.430	0.30	2+	W
23143	2000 AZ ₁₇₇	12.45	0.14	2	W	23701	Liqibin	4.584	0.10	1	W
23146	2000 AM ₂₀₀	4.130	0.47	2	W	23705	1997 SQ ₁₄	82.636	1.15	2	W
23162	Alexcrook	3.89	0.13	3	W	23706	1997 SY ₃₂	7.04	0.11	2	A
23163	2000 FG ₄₉	5.82	0.57	2	W	23707	Chambliiss	5.06632			p Ns
23164	Badger	9.351	0.50	2	W	23708	1997 TR ₁₈	3.978	0.37	2	W
23167	2000 GL ₁₂₄	38.438	0.32-0.36	2	W	23709	1997 TA ₂₈	13.08	0.49	2+	W
23168	Lauriefletch				HNW	23712	Willpatrick	3.902	0.40	3	W
23177	2000 JD ₅₈	4.3819	0.59	3		23715	1998 FK ₂	7.434	0.27-0.36	3	W
23183	2000 OY ₂₁	6.981	0.73-0.76	3		23718	Horgos	3.57	0.21	2	W
23184	2000 OD ₃₆	29.09	1.20	2	W	23721	1998 HQ ₂₇	5.3036	0.16-0.17	3	W
23186*	2000 PO ₈	5.003	0.31	3		23723*	1998 HG ₄₀	3.50	0.18	2	W
23187	2000 PN ₉	2.5325	0.10-0.15	3		23732	Choiseungjae	8.631	0.68	2	W
23190	Klages-Mundt	7.274	0.20-0.25	2	W	23738*	1998 JZ ₁	6.2883	0.30-0.35	2+	W
23191	Sujaytyle	3.112	0.24	2	W	23740	1998 KP ₃	9.564	0.08	1	W
23193	2000 QK ₁₈₁	8.983	1.04	3		23750	Stepciechan	10.278	0.76	2	W
23194	2000 RF ₁	4.842	0.12	2	W	23751	Davidprice	21.660	0.08	1	W
23200	2000 SH ₃	16.22	0.42-0.46	3		23757	Jonmunoz		0.51		W
23214	Patrickchen	7.400	0.26	2	W	23758	Guyuzhou	3.12	0.15	2	W
23219	2000 VW ₂₃	10.813	0.53	2	W	23766	1998 MZ ₂₃	2.721	0.18	3	W
23228	Nandinisarma	67.582	0.76	2	W	23795	1998 QW ₃₂	9.473	0.59	2	W
23233	2000 WM ₇₂	3.732	0.35	3		23796	1998 QK ₃₄	4.080	0.14	2	W
23236	2000 WX ₁₀₀	3.854	0.13	2	W	23804	Haber	532.240	0.63	2	W
23245	Fujimura	4.156	0.54	2	W	23806	1998 QD ₄₀	4.030	0.50-0.58	2	W
23247	2000 WG ₁₇₄	4.130	0.26	2	W	23808	Joshuahammer	4.386	0.55-0.56	2	W
23255	2000 YD ₁₇	13.56	0.33	2+		23809	Haswell	3.59	0.16	2-	W
23260	2000 YA ₃₄	8	0.04	1		23814	Bethanylynne	10.160	0.31	2	W
23268	2000 YD ₅₅	3.368	0.12	2	W	23818	Matthewlepow	6.534	0.39	2	W
23276	2000 YT ₁₀₁	3.661	0.22	2	W	23848	1998 RJ ₁	5.660	0.44	2	W
23278	2000 YD ₁₀₅	8.502	0.59	2	W	23852	Laurierumker	2.461	0.10	1	W
23293	2000 YS ₁₃₁	50.88	0.18	1		23860	1998 RU ₅₆	6.725	0.61	2	W
23301	2001 AO ₁₆	14.580	0.13	2	W	23870	1998 RW ₇₅	5.570	0.25	2	W
23313	Supokaivanich				HNW	23873	1998 RL ₇₆	13.856	1.23	2	p s
23315	Navinbrian	6.381	0.58	2	W	23874	1998 RB ₇₇	8.14	0.05	2	W
23327	Luchernandez	4.933	0.50	2+		23875	Strube	4.245	0.29-0.35	2	W
23336	2579 P-L	2.56	0.10	2+		23876	1998 RZ ₇₉	5.318	0.19	2	W
23339	3025 P-L	4.85	0.18	2	W	23892	1998 SH ₄₉	3.720	0.10	1	W
23374	2207 T-2	5.42	0.68	2	W	23900	Urakawa	7.93	0.43	2	W
23384	5163 T-2	11.523	0.64	2	W	23902	1998 SN ₆₄	3.636	0.73	2	W
23405	Nisyros	11.037	0.76	2	W	23924	Premt	5.194	0.26-0.36	2	W

MINOR PLANET LIGHTCURVE PARAMETERS

Planet	Period	Variation	Note	Planet	Period	Variation	Note
23939* 1998 TV ₃₃	12.868	0.49-0.55	2+ HW	24448 2000 QE ₄₂	8.33	0.20-0.27	2+
23947* 1998 UH ₁₆	5.72	0.07-0.16	1+ HW	24451 2000 QS ₁₀₄	17.18	0.17	2+
23948 1998 UQ ₁₈	5.675	0.47	2 W	24454 2000 QF ₁₉₈	>500	>0.4	2-
23958* 1998 VD ₃₀	562.3	0.36-0.45	2 HW	24459 2000 RF ₁₀₃	6.647	0.24	2 W
23959 1998 VZ ₃₆	5.665	0.36	2 W	24465* 2000 SX ₁₅₅	2.66087	0.12-0.21	3 B
23961 1998 VL ₃₉	18.736	0.31	2 W	24466 2000 SC ₁₅₆	271.923	0.63	2 W
23968 1998 XA ₁₃	11.140	0.33	2 W	24470 2000 SJ ₃₁₀	11.60	0.30	3-
23971 1998 YU ₉	6.8949	0.79	3	24471 2000 SH ₃₁₃	344.144	0.75	2 W
23974 1999 CK ₁₂	5.485	0.67-0.80	3	24475 2000 VN ₂		0.04	N
23979 1999 JL ₈₂	2.49	0.17	2-	24478 2000 WC ₁₄₅	16.13	0.30-0.49	3-
23993 1999 RS ₁₃	4.097	0.41	2 W	24495* Degroff	24.083	0.58	2 B?
23997 1999 RW ₂₇	17.82	0.18-0.23	3-	24499 2001 AL ₃₀	9.219	0.07	1 W
23998 1999 RP ₂₉	13.526	0.88	3-	24516 2001 BB ₆₆	3.86	0.11	2 W
24004 1999 RQ ₅₇	5.68	0.55	2+	24523 Sanaroof	3.803	0.09	1 W
24005 Eddieozawa	3.278	0.10	1 W	24527 2001 CA ₆		0.75	W
24007 1999 RE ₉₁	12.63	0.41	2- W	24530 2001 CP ₁₈	45.2	0.35	2-
24008 1999 RF ₉₄	3.567	0.16	2 W	24534* 2001 CX ₂₇	19.417	0.11-0.15	2 HW
24018 1999 RU ₁₃₄	6.151	0.32	2 W	24537* 2001 CB ₃₅	10.489	0.30-0.34	2+ HW
24025 Kimwallin			HNW	24601 Valjean	5.89	0.84	3-
24026 Pusateri	4.368	0.51	2 W	24607 Sevnatu	6.08	0.71	3
24029 1999 RT ₁₉₈	5.492	0.65	3	24615 1978 VO ₅	11.03	0.21	2 W
24030 1999 RT ₂₀₆	3.205	0.46	2 W	24643* MacCready	4.5070	0.11-0.20	N
24036 1999 SP ₄	4.411	0.44	2 W	24654 Fossett	6.003	0.52-0.8	3
24038 1999 SL ₈	2.880	0.09	1 W	24683 1990 DV ₃	10.0	0.56	2
24039 1999 SS ₈	8.586	0.66-0.73	3	24689 1990 OH ₁		0.38	N
24053 Shinichiro	6.211	0.44	2 W	24691* 1990 RH ₃	6.76	0.30	2-
24054 1999 TZ ₃₇	12.116	0.61-0.63	2 W	24702 1991 OR	59.5	0.19	2- TO
24061 1999 TS ₁₀₀	6.886	0.68	2 W	24706 1991 PA ₅	4.47	0.21	2 W
24066* Eriksorensen	8.7	0.43	2- W	24756 1992 VF	12.265	0.09	2
24077 1999 TD ₂₃₃	30.86	1.61	2 T	24770 1993 FG ₂₈	7.90	0.81	1 DAW
24092 1999 UU ₁₃	2.879	0.08	1 W	24783 1993 SQ ₁₃	4.19	0.28	2 W
24094 1999 UN ₆₀	2.5768	0.10	3	24814 1994 VW ₁	4.533	0.05	2
24097 1999 VB ₆	51.652	0.64	2 W	24815 1994 VQ ₆	31.17	0.53	3
24099 1999 VF ₈	2.540	0.49	2 W	24819 1994 XY ₄	27.73	0.04	2- A
24101 Cassini	3.986	0.12	3	24822 1995 BW ₁₁	5.71	0.50	3- W
24105 Broughton	15.944	0.34	2 W	24827 Maryphil	11.653	0.44	3-
24107 1999 VS ₁₉	249.046	0.31	2 W	24835 1995 SM ₅₅	8.08	0.05-0.19	2 A
24114 1999 VV ₂₃	8.244	0.26	3	24844 1995 VM ₁	5.353	0.25	2+ W
24115 1999 VH ₂₄	2.635	0.18	2 W	24856 Messidoro	2.39	0.20	2 W
24116 1999 VK ₂₄	5.25	0.48	2+ W	24869 1996 FZ	6.18	0.41	2- W
24117 1999 VQ ₂₆	3.506	0.38	2 W	24870 1996 FJ ₁	3.10124	0.13	3
24120 Jeremyblum	9.14	0.94	3- W	24891 1997 AT ₂	6.1709	0.96	3
24131 Jonathuggins	5.789	0.63	2 W	24898 Alanholmes	6.86	0.62	2 W
24143 1999 VY ₁₂₄	3.436	0.19	2 W	24988 Alainmilsztajn	2.852	0.09	1 W
24147 Stefanmuller	5.938	0.69	2 W	25011 1998 PP ₁	6.336	0.37	2 W
24176 1999 XP ₆	22.716	0.22	2 W	25014 Christinepalau	12.00	0.15	2 W
24178 1999 XL ₇	9.196	0.44	2 W	25028 1998 QL ₂₆	5.88	0.60-0.68	3 W
24191 Qiaochuyuan	42.782	0.53	2 W	25041 1998 QX ₄₀	4.29837	0.44	3
24192 1999 XM ₃₀	19.9	0.46	2+ HW	25045 Baixuefei	4.174	0.83-0.87	2 W
24201 Davidkeith	12.774	0.14	2 W	25050 Michmadsen	9.748	0.27-0.32	2 W
24207 1999 XJ ₄₉	3.510	0.15	2 W	25068 1998 QV ₈₈	41.18	0.4	3
24215 Jongastel	11.036	0.10	1 W	25070 1998 QY ₉₀	14.692	1.01	2 W
24222 1999 XW ₇₄	3.7824	0.30	3	25076 1998 QM ₉₈	58.3	0.35	2 T
24242 1999 XY ₁₀₀	49.94	>0.6	2 T+	25077 1998 QJ ₉₉	36.176	0.39	2 W
24253 1999 XX ₁₂₀	2.583	0.10	2 W	25079 1998 QU ₁₀₃	3.19	0.57-0.61	2 W
24260 Kriván	3.318	0.42	3	25081 1998 QR ₁₀₈	31.645	0.60-0.66	2 W
24275 1999 XW ₁₆₇	57.98	0.32	2-	25094 Zemtsov	5.18	1.02-1.05	3- W
24290 1999 XS ₁₉₀	5.36	0.49-0.50	2 W	25099 Mashinskiy	3.763	0.56	2 W
24301 Gural	7.656	0.53	2 W	25112 Mymeshkovych	10.1	0.35	2+ W
24304 Lynnrice	6.139	0.13	2 W	25119 Kakani	45.248	0.21	2 W
24313 1999 YR ₂₇		0.23		25126 1998 RO ₇₈	5.21	0.27	2 W
24315 2000 AV ₄	10.55	0.46	2 W	25128 1998 SK ₁	61.467	0.37	2 W
24318 Vivianlee	2.910	0.22-0.26	2 W	25143 Itokawa	12.132	0.69-1.05	3 T-
24344 Brianbarnett	6.646	0.42-0.45	2 W	25162 Beckage	2.46	0.38	2- W
24357* 2000 AC ₁₁₅	264.	0.38-0.39	2+ HW	25163* Williammcdonald	34.30	0.43	3- W
24388* 2000 AB ₁₇₅	6.972	0.26	2	25164 Sonomastate	16.238	0.57	2+ W
24391 2000 AU ₁₇₈	5.436	0.35	2	25171 1998 SX ₆₆	11.6	0.33-0.40	2 W
24393 2000 AG ₁₈₃		0.40	N	25186 1998 SY ₁₁₅	6.4233	0.45	3- W
24394 2000 AD ₁₈₆	2.81	0.25	1+ W	25196 1998 SH ₁₃₄	3.639	0.33	2 W
24403 2000 AX ₁₉₃	5.347	0.31	3-	25215 1998 SC ₁₆₄	21.872	0.50	2 W
24404 2000 AB ₁₉₄	3.721	0.54	2 W	25220 1998 TQ ₆	8.65	0.13-0.13	2 W
24405 2000 AT ₁₉₇	20.1835		p N	25228 Mikekitt	6.194	0.29	2 W
24410* Juliewalker	6.4839	0.16	2	25235 1998 UC ₃			HNW
24415 2000 AA ₂₅₁	6.654	0.62	2 W	25241 1998 UF ₁₄	5.146	0.58	2 W
24416 2000 BF ₂	6.265	0.37	2 W	25253 1998 UV ₂₉	3.789	0.47	2 W
24435 2000 DN	9.60	0.91	3- W	25262 1998 VL ₁₄	17.732	0.33	2 W
24442 2000 GM ₁₂₂	10.531	0.50	2 W	25263 1998 VM ₁₆	5.114	0.20	2 W
24443* 2000 OG	4.069	0.11-0.19	2 A	25273 Barrycarole			HNW
24445 2000 PM ₈	6.811	0.19-0.95	3	25274 1998 VE ₃₃	6.11	0.26	1 W
24446 2000 PR ₂₅	10.74	0.29	3-	25282 1998 WR	11.513	0.40	2 W

MINOR PLANET LIGHTCURVE PARAMETERS

Planet	Period	Variation	Note	Planet	Period	Variation	Note
25285 1998 WB ₇	35.337	0.76	2 W	25891 2000 WK ₉	4.1375	0.22	3- p
25298 Fionapaine	4.62	0.17	2 W	25895 2000 XN ₉	14.230	0.28	2+
25302 Niim	2.984	0.14	2 W	25907 Capodilupo	6.936	0.59	2 W
25307 1998 XU ₇₇	10.983	0.32	2 W	25911 2001 BC ₇₆	8.80	0.63	2+
25310* 1998 XY ₉₂	5.2927	0.58	3	25916 2001 CP ₄₄	4.19	0.28-0.37	3
25313 1998 YV ₈	3.32	0.19	2 W	25928 2001 DJ ₅₂	8.021	0.53	2 W
25318 1999 CH ₁₂	15.80	0.09	2 A	25934 2001 DC ₇₄	19.1	0.90	2
25320* 1999 CP ₁₅	55.25	0.71	3- T0	25956 2001 FE ₁₆	6.643	0.47	2 W
25327 1999 JB ₆₃	6.7160	0.63-0.65	3	25980* 2001 FK ₅₃	2.762	0.10	3
25330 1999 KV ₄	4.919	0.14-0.15	2 N	26002 Angelayeung	2.299	0.25	2 W
25332 1999 KK ₆	2.4531	0.06-0.10	3	26010 2001 FN ₁₂₉	4.16	0.66	2 W
25335 1999 NT	3.3259	0.34-0.38	3	26021 4177 P-L	72.725	0.86	2 W
25338 1999 RE ₂	48.326	0.61	2 W	26022 4180 P-L	5.4	0.9	2
25349 1999 RL ₁₂₇		0.62	2 W	26027 Cotopaxi	7.1	1.02	2 W
25355 1999 RU ₂₂₁	10.02	0.79	2 N	26031 6074 P-L	4.55	0.84	2- W
25361 1999 TC ₂₃	3.171	0.50	2 W	26038 2290 T-1	8.07	0.51	2 W
25368 Gailcolwell	6.805	0.68	2 W	26045 1582 T-2	2.9	0.10	2 N
25391 1999 UC ₁₆	4.048	0.29-0.33	2 W	26048 2409 T-2			2 HNW
25398 1999 VM ₁₂	21.374	0.37	2 W	26058 1061 T-3	6.058	0.49	2 W
25399 Vonnegut	11.597	0.29	2 W	26073 5168 T-3	9.552	0.78	2 W
25404 Shansample	5.028	0.52	2 W	26074 Carlwartz	2.5493	0.11	3 B
25417 Coquillette	5.415	0.55	2 W	26083* 1981 EJ ₁₁	347.	0.33-0.34	2+ B?
25423 1999 VS ₁₂₇	42.635	0.43	2 W	26084 1981 EK ₁₇	121.957	0.68	2 W
25442* 1999 WQ ₉	4.553	0.26	3	26088 1985 QF ₁	7.437	0.09	1 W
25451 1999 XC ₈	4.531	0.70	2 W	26090 1986 PU ₁	4.23	0.33	2 W
25453 1999 XU ₁₁	18.513	0.17	2 W	26093 1987 UA ₁	3.3186	0.10	2+ A
25457 Mariannamao	8.468	0.86	2 W	26094 1988 NU	4.604	0.09	1 W
25458 1999 XT ₁₃	3.6594	0.30	3- A	26096 1988 SD ₃	11.228	0.21	2 W
25459 1999 XL ₁₄	22.298	0.59	2 W	26098 1989 AN ₃	2.42	0.12	1 W
25464 Maxrabinovich	6.236	0.75-0.93	3	26110 1991 NK ₄	9.179	0.79	2 W
25468 Ramakrishna	5.573	0.48	2 HW	26121 1992 BX	3.554	0.31	2 W
25469 Ransohoff	8.57	0.11	2 W	26125 1992 RG	4.2005	0.49	3
25474 1999 XO ₃₈	2.852	0.09	1 W	26128 1993 BO ₁₀	8.70	0.40-0.45	3- W
25489 1999 XN ₈₃	10.190	0.81	2 W	26133 1993 FS ₂₆	6.767	0.15-0.29	2 W
25490 Kevinkelly	6.441	0.09	1 W	26138 1993 TK ₂₅	32.00	1.26	2 W
25495 Michaelroddy	3.220	0.09	1 W	26163 1995 DW			2 HNW
25500 1999 XF ₉₁	11.285	0.55	2 W	26174 1996 EP ₁	5.93	0.12	1
25505 1999 XQ ₉₅	136.581	0.31	2 W	26181 1996 GQ ₂₁		<0.10	
25512 Anncomins	127.092	0.26	2 W	26182 1996 HW ₈	2.769	0.09	1 W
25521 Stevemorgan	32.300	0.69	2 W	26197 Bormio	3.607	0.43-0.48	2 W
25531 Lessek	7.693	0.53	2 W	26198 1997 GJ ₁₃	181.109	0.39	2 W
25535 1999 XF ₁₄₄	145.183	0.88	2 W	26203* 1997 KS	12.857	0.17-0.18	3
25549 Jonsauer	2.124	0.27	2 W	26227 1998 HJ ₇	22.07	0.15	2 A
25564 1999 XC ₁₇₅	3.865	0.43-0.48	2 W	26230 1998 QR ₁	7.318	0.68	2 W
25583 1999 XJ ₂₂₁	10.554	0.56-0.58	2 W	26231 1998 QQ ₇	2.969	0.28	2 W
25598 1999 YK ₁₆	3.383	0.60	2 W	26241 1998 QY ₄₀	12.835	0.71-0.76	2 p s
25600 2000 AS ₁	5.579	0.71-0.80	2 W	26269 Marciaprill	57.282	0.65	2 W
25626 2000 AD ₅₀	2.086	0.27	2 W	26274* 1998 RH ₇₅	3.1296	0.55	3
25631 2000 AJ ₅₅	10.028	0.27	2 W	26284 1998 SZ ₅₉	7.501	0.22	2 W
25634 2000 AZ ₅₉	4.570	0.59	2 W	26285 1998 SS ₆₁	20.353	0.33	2 W
25638 Ahissar	3.2721	0.66	3	26287 1998 SD ₆₇	10.648	0.38	3-
25647 2000 AQ ₇₅	45.961	0.24	2 W	26304 1998 SZ ₁₄₅	4.952	0.76	2 W
25670 Densley	7.56	0.81	3- W	26330 1998 WN ₅	4.794	0.68	2 W
25673 Di Mascio	7.769	0.40	2 W	26335 1998 WT ₁₆	3.773	0.37	2 W
25684 2000 AB ₁₁₄	6.925	0.69	2 W	26337 Matthewagam	98.949	0.53	2 W
25685 Katlinhornig	9.522	0.22	2 W	26340 Evamarková		>0.1	
25689 Duannihuang	6.374	0.62-0.69	2 W	26343 1998 XB ₅₃	12.554	0.47	2 W
25698 Snehakannan	4.722	0.60	2 W	26346 1998 XF ₉₃	13.927	0.29	2 W
25709 2000 AP ₁₄₂	2.962	0.27	2 W	26348 1998 XO ₉₄	15.695	0.21	2 W
25711 Lebovits	6.58	0.76	2+ W	26351 1998 XG ₉₅	14.096	0.69	2 W
25716 2000 AE ₁₆₄	17.374	0.65	2 W	26355 Grueber	5.015	0.59	2 W
25719 2000 AV ₁₇₁	19.4	0.82	2 N	26372 1999 CW ₆₉	37.694	0.10	1 W
25738 2000 AO ₁₉₈	2.3488	0.24	3- W	26375 1999 DE ₉	>24.	<0.10	1
25745 Schimmelpenninck	5.514	0.61	2 W	26380 1999 JY ₆₅	13.653	0.38	3
25758 2000 BZ ₂₉	2.95	0.11	1+ W	26382 1999 LT ₃₂	7.784	0.56	2 W
25762 2000 CO ₂	4.05	0.92	2- W	26383 1999 MA ₂	4.918	0.30-0.35	3
25773 2000 CX ₂₇	11.749	0.41-0.49	2 W	26387 1999 TG ₂	5.14720		2 p Ns
25782 2000 CX ₃₈	3.76	0.23	2+ W	26399 Rileynnis	19.968	0.56-0.71	2 W
25783 Brandontyler	3.500	0.15	2 W	26403 1999 WF ₁₈	5.166	0.21	2 W
25797 2000 CG ₈₂	10.540	0.20	2 W	26408 1999 XO ₃₃	29.250	0.36	2 W
25799 Anmaschlegel	4.38	0.23	2+ W	26410 1999 XZ ₃₄	5.619	0.38	2 W
25805 2000 CV ₉₁	9.90	0.15	2 W	26412 Charlesyu	46.57	0.45	2 W
25814 Preesinghal	3.12	0.39	2- W	26416 1999 XM ₈₄	2.907	0.20	3-
25831 2000 DH ₁₁₁	4.78	0.29	2 W	26419 1999 XR ₉₅	2.552	0.09	1 W
25855 2000 EA ₁₆₈	13.393	0.59-0.60	2 W	26421* 1999 XP ₁₁₃	4.320	0.23	3
25861 2000 FS ₁₅	6.996	0.18	2 W	26433 Michaelyurko	7.933	0.64	2 W
25866 2000 GA ₁₀₀	104.469	0.52	2 W	26441 Nanayakkara	4.85	0.62	2 W
25879 2000 QA ₁₀₅	23.642	0.64	2 W	26447 Akrishnan	102.922	0.56	2 W
25884 Asai	4.9169	0.36-0.55	3 B?	26460 2000 AZ ₁₂₀	5.48	0.90	2 p
25887 2000 SU ₃₀₈	21.975	0.72	2 W	26461 2000 AW ₁₂₄	2.340	0.09	1 W

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Planet	Period	Variation	Note	Planet	Period	Variation	Note				
26471	Tracybecker	2.68679	0.18-0.24	3	B	27146	1998 YL ₁	11.310	0.27	2	W
26472	2000 AC ₁₆₂	3.745	0.36	2	W	27154	1998 YG ₇	3.126	0.30	2	W
26485	2000 AD ₂₃₁	42.222	0.33	2	W	27162	1999 AM ₆	8.808	0.38	2	W
26514	2000 CH ₄₈	4.9655	0.72-0.94	3		27171	1999 AD ₃₃	4.108	0.37	2	W
26515	2000 CJ ₅₃	5.516	0.67-1.06	2	W	27172	1999 AN ₃₄	9.890	0.53	2	W
26520	2000 CQ ₇₅	3.970	0.37	2	W	27181	1999 CX ₁	20.67	0.45	1+	
26522	Juliapoje	>12.	>0.07	1	W	27182	1999 CL ₃	13.670	0.56	2	W
26524	2000 CY ₈₅	3.332	0.09	1	W	27183	1999 CF ₄	4.574	0.16	2	W
26569	2000 EL ₇₇	12.624	0.60	2	W	27185	1999 CH ₃₇	3.155	0.25	2	W
26577	2000 EC ₉₁	2.676	0.25	2	W	27204	1999 CY ₇₄	9.7	>0.8	2-	
26584	2000 EF ₁₁₄	6.668	0.31	2	W	27205	1999 CY ₇₅	7.699	0.19-0.20	2	W
26596	2000 EE ₁₇₁	9.007	0.39	2	W	27208	Jennyliu	9.102	0.57-0.59	2	W
26606	2000 FH ₃₁	2.82	0.14	2	W	27225	1999 GB ₁₇	3.85386			
26616	2000 GG ₆	4.015	0.28	2	W	27227	1999 GB ₄₈	3.82	0.09	2	W
26623	2000 GK ₈₂	4.834	0.36	2	W	27243	1999 UK ₂₄	2.994	0.27	2	W
26630	2000 GH ₁₃₃	3.62	0.09	1	W	27259	1999 XS ₁₃₆	12.078	0.67	2	W
26635	2000 HC ₅₃	5.27	0.19	2+	W	27270	Guidotti	2.6	0.3	1	
26636	2000 HX ₅₇	4.274	0.25	2+		27278	2000 AU ₆₁	5.780	0.39	2	W
26657	2000 SX ₂₉₃	3.3	0.30	2		27295	2000 AU ₁₄₃	9.968	0.26-0.27	2	W
26663	2000 XK ₄₇	2.572	0.11		N	27300	2000 AA ₁₆₈	6.3208	0.93	3	
26687	2001 FH ₅₄	6.169	0.37	2	W	27303	Leitner	38.541	0.72-0.74	2	W
26703*	2001 FB ₁₄₄	8.4	0.37	2-		27331	2000 CE ₅₈	3.004	0.26	2	W
26722	2001 HK ₇	20.252	0.53	3		27346*	2000 DN ₈	0.068	0.10	1	
26736	Rojeski	12.343	0.39	2	W	27351	2000 DO ₇₃	9.008	0.16	3	
26740	Camacho	3.39	0.27	1+	W	27360	2000 DH ₁₀₇	11.199	0.49-0.58	2	W
26743	2001 HE ₃₈	4.732	0.70	2	W	27363*	Alvanclark	12.84	0.09	3-	W
26757	Bastei	3.241	0.07	1	W	27365	Henryfitz	6.512	0.78	2	W
26758	2001 KV ₁₉	10.00	1.05	3-	W	27371	2000 ER ₄₀	14.435	0.87	2	W
26760	2001 KP ₄₁	5.300	0.24-0.31	3		27377	2000 EY ₅₄	6.182	0.69-0.91	2	W
26761	Stromboli	15.96	0.12	3		27388	2000 ET ₈₆	3.641	0.13	2	W
26762	2564 P-L	4.293	0.37	2	W	27391	2000 EU ₉₀	2.772	0.12	2	W
26790	5235 T-3				HNW	27395	2000 EX ₉₄	3.714	0.24	2	W
26800	Gualtierotrucco	6.820	0.51	2	W	27402	2000 EZ ₁₀₈	19.066	0.57-0.71	2	W
26808	1982 VB ₄	14.3	0.25	2		27440	Colekendrick	5.493	0.08	1	W
26821*	Baehr	6.90	0.29	3-		27450	Monzon	4.748	0.10	2-	W
26836	1991 PA ₆	3.61	0.41-0.47	2	W	27460	2000 GW ₄₂	7.01	0.10	2	W
26839	1991 RC ₁₀	3.288	0.46	2	W	27467	2000 GF ₆₉	18.920	0.43	2	W
26853	1992 UQ ₂	8.270	0.14	2+		27469	2000 GN ₇₂	7.744	0.58-0.72	2	W
26854	1992 WB	3.34	0.24	2	W	27471	2000 GG ₇₆	12.47	0.69	2	W
26858	Misterrogers	8.066	0.13	3		27473	2000 GV ₇₈	21.907	0.83	2	W
26867	1993 GK ₁	4.38	0.15	2	W	27495	Heatherfennell	4.916	0.56	2	W
26876	1994 CR ₁₄	306.715	0.54	2	W	27496	2000 GC ₁₂₅	4.7089	0.10-0.12	2+	
26879	Haines	2.7614	0.07	2		27500	Mandelbrot	5.741	0.61	2	W
26880	1994 PK ₈	7.449	0.60-0.63	2	W	27502	Stephbecca	6.96	0.33-0.34	2	W
26881	1994 PF ₁₁	6.777	0.54-0.64	2	W	27508	2000 GS ₁₄₂	8.222	0.28	2	W
26887	Tokyogiants	2.876	0.23	3		27515	Gunnels	3.277	0.10	1	W
26888	1994 XH				HNW	27529	2000 HJ ₆₄	4.1290	0.51	2	A
26894	1995 KN ₁	9.929	0.63	2	W	27550	2000 JC ₂₄	7.696	0.19	2	W
26895	1995 MC	12.72	0.04		N	27556	Williamprem	81.362	0.82	2	W
26912	1996 JG ₁	14.031	0.42	2	W	27557	2000 JP ₅₅	15.144	0.23	2	W
26916	1996 RR ₂	10.324	0.27-1.05	3		27564	Astreichtelt	2.932	0.37	2	W
26918	1996 RA ₁₆	3.69	0.27	2	W	27568	2000 PT ₆	3.4885	0.10-0.15	3	B?
26922	Samara	4.16	0.57	2	W	27579	2000 TA ₂₉	11.300	0.45	2	W
26930	1997 CH ₂₀	4.425	0.30	2	W	27597	Varuniyer	6.182	0.67	2	W
26934*	Jordancotler	28.	0.35	2-		27618	Ceilierin	6.401	0.34-0.37	2	W
26937	Makimiyamoto				HNW	27669	1979 MQ ₄	84.693	0.53	2	W
26949	1997 JV ₇	8.675	0.46-0.50	2	W	27675	1981 CH	2.9661	0.10-0.13	3	B
26959	1997 MR ₈	6.498	0.20	2	W	27676	1981 DH ₃	2.797	0.16	2	W
26968	1997 RB ₉	4.126	0.40	2	W	27695	1981 EW ₃₆	8.37	0.15		N
26974	1997 TJ ₁₉	13.263	0.79	2	W	27697	1981 EM ₄₅	6.890	0.56	2	W
26977	1997 US ₃	309.679	0.92	2	W	27700	1982 SW ₃	9.997	0.32	3-	
26984	Fernand-Roland	20.	0.3	1+		27713	1989 AA	3.999	0.72-0.82	3	
26989	1997 WO ₇	6.129	0.35-0.35	2	W	27720	1989 UP ₃	7.598	0.91	2	W
26993	Littlewood	5.886	0.32-0.40	2	W	27721	1989 WJ	31.902	0.79	2	W
27000*	1998 BO ₄₄	11.034	0.34	3-		27722	1990 OB ₂	14.85	0.33-0.42	2	
27005*	1998 DR ₃₅	134.	1.20	1+		27776	Cortland	2.6095	0.05-0.07	3-	
27018	1998 KQ ₅₂	5.733	0.41	2	W	27778	1992 DF ₆	4.27	0.56-0.66	2	W
27036	1998 RZ ₅₄	46.876	0.50	2	W	27785	1992 OE ₃	9.232	0.47-0.53	2	W
27039	1998 RU ₆₁	4.38	0.18-0.19	2	W	27789	Astrakhan	2.609	0.04	1	W
27060	1998 SU ₃₇	5.798	0.52	2	W	27802	1993 FY ₃₀	8.581	0.35	2	W
27062	1998 SJ ₅₈	59.527	0.31-0.36	2	W	27810	Daveturner	546.	0.43	2+	T0
27065	1998 SJ ₆₄	4.560	0.20	3		27821	1993 TU ₃₄	3.78	0.24	2	W
27068	1998 SU ₇₄	4.011	0.21	2+		27834	1994 PW ₁₃	4.25	0.47	2	W
27072	Aggarwal	7.121	0.13	2	W	27839	1994 PX ₂₀				HNW
27094	Salgari	6.694	0.32-0.40	2	W	27848	1994 UZ	7.74	0.15	2	W
27097*	1998 UM ₂₆	6.651	0.42	2+		27851	1994 VG ₂	7.733	1.0	2	
27111	1998 VV ₃₄	3.323	0.15	3-		27860	1995 BV ₂	3.918	0.32	2	W
27134	1998 XO ₁₁	3.198	0.34-0.37	2	W	27861	1995 BL ₄	28.273	0.47	2	W
27136	1998 XJ ₁₆	26.	>0.10		N	27867	1995 KF ₄	418.940	0.37	2	W
27139	1998 XX ₄₆	5.195	0.21-0.36	2	W	27875	1996 BL ₃	3.20	0.22	2-	W

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Planet	Period	Variation	Note	Planet	Period	Variation	Note
27880 1996 EQ	4.998	0.58	2 W	28735 2000 GX ₁₂₅	5.190	0.61-0.88	2 W
27913 1996 TC ₄₁	4.113	0.39	2 W	28736 2000 GE ₁₃₃	4.658	0.44	3 p
27915 Nancywright	5.459	0.35	2 W	28753 2000 HA	4.993	1.0 -1.1	3
27921 1996 VY ₂₆	18.703	0.64	3- HN	28761* 2000 HU ₁₂	6.34830	0.69	3
27923 1996 XJ ₃₂			HNW	28762 2000 HG ₁₃	5.582	0.64	2 W
27950 1997 OF ₁	5.804	0.07	1 W	28769 2000 HC ₂₆	3.759	0.04	1 W
27953 1997 PF ₅	3.906	0.29-0.31	2 W	28774 2000 HO ₃₆	6.117	0.79	2 W
27962 1997 SY ₁	5.291	0.05	2- W	28775 2000 HE ₃₇	20.242	0.21	2 W
27965 1997 SH ₂₅	5.629	0.34-0.36	2 W	28788 2000 HW ₅₇	3.3905	0.32	2+
27973 1997 TR ₂₅	6.497	0.30	3	28789 2000 HE ₅₈	6.76	0.44	2 W
27978* Lubosluka	4.68	0.23	2 W	28811 2000 JX ₉	13.2	0.35-0.38	3- W
28003 1997 WT ₅₂	3.690	0.23	2 W	28816 Kimneville			HNW
28017 1997 YV ₁₃	47.	>0.15	2 T?	28845 2000 JP ₄₉	3.636	0.31	2 W
28020 1998 BP ₅	6.498	0.66	2 W	28854 Budisteanu	13.951	0.32	2 W
28063 1998 OR ₁₄	7.01	0.21-0.22	2 W	28857 2000 JE ₅₉	335.486	0.54	2 W
28067 1998 QA ₁₄	3.746	0.45-0.48	2 W	28876 2000 KL ₃₁	210.598	0.41	2 W
28071 1998 QC ₂₆	10.031	0.30-0.32	2 W	28880 2000 KN ₄₆	6.249	0.76-0.87	2 W
28098 1998 RJ ₆₄	2.601	0.27	2 W	28885 2000 KH ₅₆	3.325	0.58	2 W
28103 Benmcpheeron	5.05	0.30	2 W	28887 2000 KQ ₅₈	6.8429	0.55	3 p
28126 Nydegger	3.783	0.11	2+	28892 2000 LZ ₂	11.2575	1.07	3
28133 Kylebardwell	S 5.46284		p Ns	28895 2000 LS ₉	16.135	0.45	2 W
28162 1998 VD ₁₄	3.82	0.10	1+ W	28904 2000 ML	9.757	0.20	2 W
28186 1998 WK ₁₈	9.656	0.04	1 W	28910 2000 NH ₁₁	5.971	0.46-0.65	2+
28192 1998 WE ₂₄	34.293	0.37	2 W	28911 2000 NB ₁₆	5.486	0.46	2 W
28228 1999 AU ₂	8.00	0.60	2- W	28913 2000 OT	13.754	0.32-0.44	3-
28244 1999 AL ₃₁	3.942	0.09	1 W	28915 2000 OU ₁₃			HNW
28271 1999 CK ₁₆	5.645	0.07-0.17	3-	28947 2000 WH ₁₂	4.235	0.32	2 W
28292 1999 CX ₅₄	6.4752	0.34	3	28970 2001 JJA	15.185	0.69	2 W
28294 1999 CS ₅₉	179.783	0.56	2 W	28976 2001 KN ₇₃	8.752	0.34	2 W
28353 Chrisnielsen	3.499	0.10	1 W	28978 Ixion		<0.15	
28354 1999 FV ₃₃	4.618	0.22	2 W	28992 2001 MW ₂₈	16.6	0.79	2
28358 1999 FW ₄₈	6.018	0.31-0.36	2 W	29010 4100 P-L	13.110	0.31	2 W
28365 1999 GF ₁₄	5.33	0.27	2 W	29019 6095 P-L	160.	0.35	1+
28371 1999 GG ₃₉	4.056	0.66-0.77	2 W	29027 7587 P-L	6.955	0.61	2 W
28387 1999 JE ₇₉	3.595	0.28	2 W	29029 9549 P-L	4.017	0.23	2 W
28388 1999 JM ₈₆	35.483	0.66	2 W	29033 2085 T-1	15.00	0.60-0.83	2 W
28395 1999 RZ ₄₂	5.237	0.37	2 W	29074 5160 T-3		0.64	W
28396 Eymann	12.548	0.26	2 W	29075 1950 DA	2.1216	0.16-0.20	3 p
28399 1999 RY ₁₃₆	10.802	0.46	2 W	29116 1981 ED ₄₀	27.187	0.43	2 W
28417 Leewei	32.503	0.55	2 W	29127 1985 FF ₂	7.221	0.24	2 W
28418 Pornwasu	87.784	0.79	2 W	29128* 1985 RA ₁	5.056	0.18	2
28420 1999 VC ₇₈	3.092	0.19	2 W	29132 Bradpitt	8.835	0.32	2 W
28422 1999 VA ₁₅₄	4.733	0.44-0.53	2 W	29140 1988 CG ₄	2.990	0.32	2 W
28434 1999 XL ₁₇₆	27.	0.30	2-	29142 1988 CR ₇	18.494	0.50	2 W
28438 Venkateswaran	11.417	0.35	2 W	29146 McHone	14.12	0.18	2 W
28461 2000 AL ₁₆₄	3.44	0.09	1+	29147 1988 GG	99.	0.80	2+
28465 Janesmyth	2.676	0.29	2 W	29149 1988 RE ₁	4.151	0.09	2 W
28468 Shichangxu	4.595	0.57	2 W	29153 1988 SY ₂	3.493	0.36	2 W
28480 Seojoyoung	6.865	0.41	2 W	29162 1989 SD ₄	6.505	0.05	1 W
28489 2000 CN ₅₈	11.664	0.38	2 W	29168 1990 KJ	2.58247	0.14-0.15	3 B?
28493 Duncan-Lewis	7.696	0.66	2 W	29170 1990 OA ₃	8.089	0.87	2 W
28497 2000 CJ ₆₉	210.389	0.87	2 W	29172 1990 QL ₄	53.235	0.41	2 W
28509 Feddersen	5.04	0.43-0.47	2 W	29182 1990 ST ₆	33.361	0.49	2 W
28523 2000 DH ₅₀	5.19	0.18	2 W	29194 1990 WJ ₄	6.020	0.36-0.67	2 W
28528 2000 DC ₇₀	6.00	0.18	2 W	29196 1990 YY	long	0.38	
28529 2000 DQ ₇₀	30.749	0.68	2 W	29202 1991 GH ₈	10.924	0.16	2 W
28531 Nikbogdanov	7.62	0.28	1+ W	29218 1992 AY	26.280	0.59	2 W
28541 2000 ED ₆	2.692	0.13	2 W	29219 1992 BJ	12.00	0.09	2 W
28548 2000 EY ₂₅	6.068	0.74	2 W	29231 1992 EG ₄	259.524	0.85	2 W
28552 2000 EY ₃₈	263.244	0.30	2 W	29242 1992 HB ₄	3.948	0.56-0.60	3
28553 Bhupatiraju	3.28	0.15	2+	29251 1992 UH ₄	3.099	0.13-0.20	2+
28565 2000 EO ₅₈	3.83	0.04	1	29252 Konjikido	6.835	0.80-0.83	2 W
28566 2000 EV ₅₉	3.14	0.51	3 W	29266 1993 JA ₂₀	5.680	0.38	2 W
28572 Salebreton	6.36	0.25	2+ W	29267 1993 FD ₂₂	13.875	0.62	2 W
28590 2000 EX ₁₂₆	6.253	0.34	2 W	29287 1993 FD ₄₉	4.974	0.55	2 W
28591 2000 EC ₁₃₀	3.083	0.10	1 W	29292 Conniewalker	30.6	0.62-0.63	3-
28595 2000 EP ₁₃₆	>10.	>0.15	2- W	29296 1993 PY ₅	>48.	>0.9	HNW
28610 2000 EM ₁₅₈	3.288	0.24	3	29297 1993 RU ₇	3.096	0.18-0.21	2 W
28619 2000 FP ₂₄	17.872	0.55	2 W	29298 Cruls	5.207	0.16-0.20	3-
28650 2000 GE ₈	9.591	0.80	2 W	29308* 1993 UF ₁	9.810	0.83-1.11	3 p
28654 Davidcaine	7.656	0.67	2 W	29314 Eurydamas	15.035	0.86-1.05	3
28656 Doreencurtin	3.771	0.16	2 W	29335 1994 XL	6.96	0.13-0.16	2 W
28658 2000 GC ₃₀	8.332	0.62	2 W	29337 Hakurojo	4.5096	0.38	3
28675 Suejohnston	7.174	0.52-0.56	2 W	29343 1995 CK ₁₀	63.852	0.62	2 W
28678 Lindquister	2.516	0.12	2 W	29385 1996 JT	5.026	0.44	2 W
28679 2000 GY ₆₈	7.822	0.57-0.79	2 W	29388 1996 JD ₆	6.798	0.21-0.23	2 W
28680 Sandralitvin	187.435	0.56	2 W	29391 Knight	5.131	0.51	2 W
28704 2000 GU ₉₁	2.84	0.20	2 W	29393 1996 NA ₃	10.298	0.27	2 W
28707 Drewbecker	4.47	0.30	2 W	29405 1996 TN ₁₈	3.522	0.26	2 W
28715 Garimella	4.99	0.44	2 W	29407 1996 UW	6.23	0.43	2- W

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Planet	Period	Variation	Note	Planet	Period	Variation	Note				
29423	1997 AF ₂₂	5.19	0.33	2	W	29981	1999 TD ₁₀	15.382	0.41-0.65	3	
29435	Mordell	5.828	0.29	2	W	29983	Amyxu	14.156	0.50	2	W
29438	1997 MV	2.440	0.07	1	W	29997	2000 AE ₁₂₇	20.038	0.43	2	W
29455	1997 SX ₁	64.820	0.28	2	W	30006	2000 CB ₃₀	3.82	0.55	2-	W
29470	Higgs	36.31	0.48	2+		30016	2000 CA ₉₅	2.5857	0.11	3	
29474	1997 UT ₈	2.901	0.09	1	W	30017	Shaundatta	2.6	0.23	2	
29475	1997 UF ₁₁	8.331	0.53	2	W	30019	2000 DD	5.4741	0.06-0.16	3	
29480	1997 VO ₁	2.643	0.22	2	W	30025	Benfreed		0.58		W
29497	1997 WD ₁₅	9.913	0.68	2	W	30028	Yushihomma	2.54	0.25	1+	W
29498	1997 WK ₂₁	4.521	0.47	2	W	30074	2000 EY ₉₆	3.636	0.10	1	W
29506	1997 XM	5.308	0.28	2	W	30075	2000 EC ₉₇	41.5	>0.2	2-	W
29508	Bottinelli	6.709	0.78	2	W	30092	2000 EB ₁₃₅				HNW
29512	1997 YL ₅	4.012	0.34-0.39	2	W	30102	2000 FC ₁	23.95	0.50	2	
29515	1997 YL ₇	12.231	0.67	2+		30105	2000 FO ₃	7.272	0.45	3	
29516	1997 YO ₇	9.86	0.39	2-	W	30111	Wendyslijk	16.968	0.63-0.69	2	W
29518	1997 YW ₁₁	3.720	0.58	2	W	30116	2000 FA ₃₆	2.5857	0.11	3	
29534	1998 BP ₇	5.670	0.23	2	W	30141	Nelvenzon	20.735	0.45	2	W
29536	1998 BC ₁₂	19.768	0.16-0.20	2	W	30168	Linusfreyer	5.68	0.21	2	W
29540	1998 BV ₂₄	3.397	0.22	2	W	30179	Movva	6.079	0.21	2	W
29548	1998 BC ₄₂	4.295	0.24-0.26	2	W	30185	2000 GT ₉₅		0.18		N
29555	MACEK	33.615	0.33	2	W	30214	2000 GS ₁₂₅	8.23	0.53	3-	W
29557	1998 DV ₃	72.838	0.40	2	W	30220	2000 GP ₁₂₆	3.3670	0.50-0.58	3	
29564	1998 ED ₆	8.434	0.57-0.58	3		30251	Ashkin	5.60	0.74	2	
29567	1998 FT ₁₃	3.568	0.57	2	W	30262	2000 HP ₄₁	21.860	0.35	2	W
29580	1998 FK ₅₅	6.840	0.23	2	W	30267	Raghuvanshi	5.391	0.09	1	W
29584	1998 FQ ₆₀	9.408	0.20	2	W	30287	2000 HK ₆₂	10.689	0.55	2	W
29588	1998 FM ₇₁	7.573	0.61	2	W	30305	Severi	32.643	0.57	2	W
29594	1998 GK ₈	9.140	0.26	2	W	30311	2000 JS ₁₀	2.266	0.06-0.16	3-	
29595	1998 HL ₁₄	6.418	0.32	2	W	30325	Reesabpathak	33.958	0.29	2	W
29597	1998 HT ₃₇	4.000	0.18	2	W	30327	Prembabu	4.424	0.56	2	W
29620	Gurbanikaur	10.148	0.58	2	W	30329	2000 JR ₂₃	28.4	0.95	2+	HW
29628	1998 TX ₃₀	5.409	0.49	2	W	30338	2000 JW ₂₉	40.185	0.46-0.46	2	W
29634	1998 VB ₃				W	30343	2000 JB ₃₆	7.56	0.16	2	W
29649	1998 WP ₆	6.694	0.07	1	W	30366	2000 JC ₅₇	5.261	0.27	2	W
29664	1998 WY ₂₃	3.016	0.35	2	W	30372	Halback	2.877	0.07	1	W
29665	1998 WD ₂₄		0.16		N	30375	Kathuang	4.646	0.54-0.60	2	W
29683	1998 XO ₅₀	2.899	0.25-0.38	3-	W	30379	2000 JY ₆₉	18.614	0.52	2	W
29687	Mohdreza	4.537	0.39	2	W	30382	2000 JB ₈₁	4.253	0.40	2	W
29690	Nistala	8.755	0.18	2	W	30385	2000 KG ₈	4.430	0.09	1	W
29697	1998 YR ₁	10.854	0.23	2	W	30419	2000 LU	4.259	0.23	2	W
29729	1999 BY ₁	4.5279	0.60-0.65	3		30427	2000 LX ₈	24.	0.1	1	W
29733	1999 BA ₄	849.186	0.74	2	W	30431	Michaeltran	90.014	1.08	2	W
29742	1999 BQ ₁₂	4.3	0.7	1+		30432	2000 LM ₂₀		0.7		N
29752	1999 CG ₄	25.974	0.56	2	W	30436	2000 LC ₂₉	7.658	0.42	2	W
29755	1999 CT ₅	4.17	0.40	2	W	30441	Curly	6.939	0.27	2	W
29757	1999 CH ₈	17.161	0.53	2	W	30455	2000 NB ₂₇	7.87	0.32	2	W
29762	Panasiewicz	13.106	0.61	2	W	30467	2000 OV ₁₄	5.941	0.56-0.60	2	W
29764	Panneerselvam	5.468	0.86	2	W	30470	2000 OR ₁₉	23.02	0.73	2	W
29765	Miparedes	>30.	>0.1	1	W	30476	2000 OY ₃₄	3.467	0.34	2	W
29769	1999 CE ₂₈	15.03	0.33	2	W	30480	2000 OH ₄₀	3.171	0.09	1	W
29776	Radzhabov	4.49	0.35	2	W	30483	2000 OG ₅₂	13.894	0.25-0.26	2	W
29777	1999 CK ₄₆	3.630	0.45-0.49	2	s	30491	2000 QJ ₃₈	3.60	0.12	2	W
29780	1999 CJ ₅₀	63.50	0.58	3-	T0	30506	2000 RO ₈₅	7.985	0.29	2	W
29797	1999 CC ₇₈	3.266	0.14	2	W	30535	2001 OR ₅	2.9697	0.12	3	B?
29801	1999 CX ₈₄	2.775	0.16	3		30542	2001 OG ₂₃	5.360	0.22	2	W
29803	Michaelshao	5.188	0.45-0.56	2	W	30567	2001 OR ₉₀	3.62	0.33	2	W
29804	Idansharon	3.19	0.16	2	W	30570	2001 OO ₉₆	4.587	0.71	2	W
29811	1999 CK ₁₀₉	17.535	0.78	2	W	30581	2001 PY ₂	2.973	0.33	2	W
29818	Aryosorayya	14.	>0.3	1		30583	2001 PZ ₆	5.207	0.80	2	W
29835	1999 FW ₁	6.954	0.26	2	W	30585	2001 PE ₁₄	3.00	0.35	1	W
29838	1999 FA ₇	6.220	0.45-0.47	2	W	30591	2001 QG ₁₀	172.363	0.83	2	W
29847	1999 FC ₂₄	13.845	0.89	2	W	30594	2001 QD ₃₀	4.712	0.30	2	W
29863	1999 FE ₄₃	19.312	0.62	2	W	30598	2001 QA ₁₁₇	8.709	0.10	1	W
29877	1999 GL ₁₇	6.361	0.54	2	W	30613	2678 P-L	10.13	0.4	2	A
29889	1999 GN ₃₆	5.381	0.65	2	W	30639	6246 P-L	2.78	0.29	2	W
29890	1999 GH ₃₇	189.596	0.59	2	W	30650	7638 P-L	6.784	0.51	2	W
29891	1999 GQ ₃₇	6.836	0.23	2	W	30670	1283 T-2	10.4	1.2	2	W
29903	1999 HP ₉	13.292	0.25	2	W	30693	5069 T-2	19.450	0.84	2	W
29912	1999 JQ ₁₀	20.402	0.43	2	W	30705*	Idaios	15.736	0.22-0.45	3	
29913	1999 JO ₁₂	5.62	0.30	1	W	30724	Peterburgtrista	6.004	0.31	2	W
29915	1999 JG ₁₈	3.7	0.46	1		30731	1981 EK ₂	8.499	0.75	2	W
29917	1999 JP ₁₉	3.656	0.50	2	W	30734	1981 ES ₃	3.776	0.59	2	W
29921	1999 JE ₂₆	3.903	0.39	2	W	30762	1981 ES ₄₂	16.4	0.18-0.24	2	
29923*	1999 JE ₂₈	17.9	0.09	2-	W	30770	1984 SL ₄	5.	0.42	2	
29946	1999 JZ ₈₃	8.483	0.31	2	W	30772	1986 RJ ₁	7.994	0.49-0.52	2	W
29951	1999 JH ₈₆	8.574	0.19	2	W	30776*	1987 QY	5.8	0.21	2	
29953	1999 JW ₈₆	8.54	1.25	2+	W	30780	1988 CA ₂	5.09	0.10	1	W
29955	1999 JE ₉₀	3.98	0.17-0.24	2	W	30781	1988 CR ₂	5.823	0.56-0.70	3	
29956	1999 JF ₉₁	12.619	0.41	2	W	30790	1988 RT ₁₁	5.129	0.42	2	W
29967	1999 JN ₁₀₄	4.219	0.18	2	W	30800	1989 ST	2.740	0.14	2	W

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Planet	Period	Variation	Note	Planet	Period	Variation	Note
30803 1989 SG ₁₄	3.404	0.47	2 W	31472 1999 CT ₃₆	3.2	0.14	1
30823 1990 SY ₁₅	2.028	0.10	1 W	31485 1999 CM ₅₁	6.001	0.59-0.68	3 p
30825 1990 TG ₁	2.62428	0.11	3	31495 Sarahgalvin	>9	>0.05	N
30843 1991 JK ₁	2.859	0.34	2 W	31521 1999 CT ₁₀₆	3.622	0.08	1 W
30856 1991 XE	5.353	0.70-1.23	3	31544 1999 DZ ₅	2.714	0.40	2 W
30878 1992 GQ	3.655	0.22	3-	31547 1999 DT ₆	11.52	0.18	1
30888 Okitsumisaki	7.975	0.24	2 W	31554 1999 EJ ₂	30.339	0.15	2 W
30891 1993 FV ₁₄	12.244	0.47	2 W	31560 1999 EQ ₁₄	2.950	0.19	2 W
30928 Jefferson	5.841	0.23	2 W	31570 1999 FG ₁₉	3.514	0.30	2 W
30935 Davasobel	3.9769	0.60	3	31601 1999 GF	2.797	0.10	2 W
30942 Helicaon	44.77	0.18	2	31603 1999 GQ ₃	3.566	0.26-0.34	2 W
30952 1994 PX ₁₅	8.89	0.44	2+	31610 1999 GC ₆	5.506	0.43	2 W
30958 1994 TV ₃	5.811	0.67-0.85	3	31613 1999 GO ₈			HNW
30971 1995 DJ	32.00	0.68	2 W	31615 1999 GF ₁₆	2.707	0.15	2 W
30981 1995 SJ ₄	2.951	0.14	3-	31623 1999 GK ₂₀	23.238	0.45	2 W
30984 1995 SW ₁₉			HNW	31626 1999 GV ₂₀	13.184	0.12	2 W
30988 1995 SE ₃₆	6.76	0.56	2-	31628 Vorperian	4.484	0.4	2
30990 1995 ST ₄₈	4.61	0.21	1 W	31633 Almonte	4.17	0.60	3 W
31001 1995 VG ₁₄	4.832	0.30	2 W	31641 Cevasco	2.656	0.48-0.71	2 W
31013 1996 DR	280.	0.5	2-	31648 1999 GL ₅₃	3.475	0.84	2 W
31017 1996 EH ₂	3.9	0.45	2	31650 Frydek-Mistek	2.88	0.19	N
31019 1996 EH ₁₀	2.461	0.27	2 W	31667 1999 JL ₃	7.305	0.24	2
31021 1996 FW ₁	19.20	0.68	2 W	31668 1999 JX ₃	11.71	0.29-0.42	2 W
31022 1996 FJ ₉	15.60	0.24	1 DAW	31669 1999 JT ₆	5.807	0.07-0.27	3
31036 1996 HM ₂₅	3.968	0.23	2 W	31674 1999 JD ₉	6.943	0.54	2 W
31048 1996 PO ₉	4.042	0.34	2 W	31697 Isaiahoneal	3.752	0.46	2 W
31050 1996 RA ₂	41.970	0.42	2 W	31699 1999 JA ₃₆	6.618	0.59	2 W
31060 1996 TB ₆	5.103	0.79-0.80	3 p	31716 Matoonder	4.573	0.22-0.23	2 W
31068 1996 TT ₅₄	110.815	0.64	2 W	31723 1999 JT ₆₁	8.231	0.21-0.25	3-
31069 1996 UM ₁	3.23	0.33	2 W	31729 Scharmen	18.953	0.30	2 W
31076 1996 XH ₁	350.	0.17	2 AT0	31737 Carriecoombs	6.93	0.50-0.55	2 W
31088 1997 BV	3.282	0.47	2+	31738 1999 JC ₇₇	11.768	0.35	2 W
31091 1997 BE ₉	128.444	0.77	2 W	31751 1999 JF ₈₅	8.988	0.38	2 W
31095 Buneiou	3.484	0.18	2 W	31759 1999 JT ₉₉	41.246	0.29	2 W
31097 Nucciomula		1.33	1	31773 1999 JL ₁₂₁	3.433	0.22	2 W
31101* 1997 NM ₁	10.0	0.93	2 W	31774 Debralas	3.17	0.27	2 W
31108 1997 PW ₃	13.237	0.87	2 W	31775* 1999 JN ₁₂₂	4.319	0.12	3-
31129 Langyatai	3.163	0.61	2 W	31782* 1999 KM ₆	3.226	0.43	3-
31136 1997 SN ₃₁	3.174	0.35	2 W	31786 1999 KO ₁₃	4.821	0.21	2 W
31152 Daishinsai	3.194	0.14	2 W	31793 1999 LB ₆	27.95	0.28	3
31170* 1997 WO ₅₈	28.7	0.73	1	31798 1999 LY ₁₆	6.002	0.74	2 W
31173 1997 XF ₁	122.8	0.67	2+	31813 1999 RF ₄₁	18.097	1.20	3-
31177 1997 XH ₁₁	323.355	0.49	2 W	31816 1999 RZ ₁₁₇	3.258	0.40	2 W
31179 Gongju	4.829	0.80	3	31817 1999 RK ₁₃₄	9.856	0.21-0.25	3-
31180 1997 YX ₃	15.6	0.25	2	31818 1999 RM ₁₃₅	5.36	0.51	2 W
31182 1997 YZ ₃	380.	0.62-0.90	2 T0	31824 Elatus	26.82	0.10	2
31189 Tricomi	4.896	1.04	2 W	31827 1999 VJ ₁₃	12.28	0.05	2-
31190 Toussaint	12.355	0.15	2 W	31830 1999 XT ₅₉	3.649	0.39	2 W
31192 Aigoual	4.329	0.56	2 W	31831 1999 YL	3.36	0.12	2-
31205 1998 BW	20.907	0.66	2 W	31832 2000 AP ₅₉	64.	0.8	2 T
31211 1998 BW ₈	3.697	0.47	2 W	31834 2000 AL ₁₄₂	7.540	0.10	1 W
31221 1998 BP ₂₆	2.407	0.07-0.10	3-	31847 2000 DQ ₉₆	19.347	0.64	2 W
31223 1998 BJ ₃₀	25.925	0.67	2 W	31850 2000 EB ₂₂	31.1	0.20	2+
31227 1998 BC ₄₁		>0.05	2 W	31862 2000 EY ₇₀	5.716	0.55-0.62	2 W
31228 1998 BR ₄₅	5.546	0.68	2 W	31867* 2000 EG ₉₄	4.846	0.22-0.31	3-
31231 Uthmann	16.9	0.14	2-	31881 2000 FL ₁₅	4.16	0.21-0.25	2
31232 Slavonice	6.295	0.45	2 W	31888 Polizzi	5.13	0.26-0.27	2 W
31234 1998 CL ₁	3.56	0.18	2 W	31891 2000 FR ₄₂	14.152	0.32	2 W
31249 1998 DF ₁₄	3.34	0.12	2-	31898 2000 GC ₁	17.2	0.07	1
31291 Yaoyue	3.62	0.12	2 W	31907 Wongsunning	3.786	0.15	2-
31332 1998 HC ₁₀₁	7.17	0.29-0.31	2 W	31939 Thananon	>20.	>0.03	1 W
31341 1998 KH ₅₅	3.007	0.22	2 W	31947* 2000 GO ₁₀₉	3.809	0.07-0.10	2
31343 1998 NT	13.303	0.55	2 W	31956 Wald	8.90	0.45	2+
31344 1998 OM ₁₂	42.392	0.63	2 W	31961 2000 GJ ₁₄₂	7.341	0.56	2 W
31345 1998 PG	2.51620	0.11	2 B	31970 2000 HD ₉	22.085	0.58	2 W
31354 1998 TR ₃	35.36	0.18	2+	31978 Jeremyphilip	3.42	0.27	2 W
31368 1998 WW ₂₃	14.860	0.21	3	31987 2000 HN ₂₈	19.141	0.71-0.97	2 W
31383 1998 XJ ₉₄	4.1678	0.58	3 p	31993 2000 HL ₃₇	15.686	0.10	1 W
31386 1998 YG ₁	8.082	0.55	2 W	31995 2000 HX ₄₀	6.40	0.48	3-
31388 1998 YL ₂	4.254	0.26-0.26	2 W	32008 Adriangalad	3.0171	0.19	3 B
31399 1998 YF ₃₀	359.054	0.40	2 W	32011 2000 HF ₅₆	6.382	0.66-0.87	2 W
31402 Negishi	9.686	0.08	2 W	32017 2000 HC ₇₇	21.379	0.10	1 W
31416 Peteworden	2.609	0.38	2 W	32030 2000 JX ₁₄	6.099	0.82	2 W
31420 1999 BV	38.862	0.60	2 W	32039 2000 JO ₂₃	3.2990	0.05	2 B
31425 1999 BF ₃	3.8	0.03-0.11	1+	32042 2000 JZ ₂₆	5.086	0.08	1 W
31427 1999 BS ₅	5.347	0.60-0.61	2 W	32060 Wyattpontius	2.88	0.48	1 W
31429 Diegoazzaro	36.900	0.46	2 W	32063 Pusapaty	4.955	0.35	2 W
31431 Cabibbo	7.610	0.41	2 W	32068 2000 JE ₅₈	2.054	0.53	2 W
31448 1999 CO ₈	3.546	0.63	2 W	32089 Wojtania	6.630	0.67-0.70	2 W
31450 1999 CU ₉	3.4116	0.24-0.31	3 B	32116 2000 LD ₄	>8.		N

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Planet	Period	Variation	Note	Planet	Period	Variation	Note
32134 2000 LQ ₁₇	10.514	0.26	2 W	32753 1981 EB ₁₄	15.	0.60	2-
32137 2000 LM ₁₉	7.069	0.56	2 W	32755 1981 EP ₁₅	10.07	0.15	1
32141 2000 LB ₂₄	8.123	0.30	2 W	32772 1986 JL	6.047	0.14-0.69	3
32145 Katberman	9.170	0.70-0.85	2 W	32776 Nriag	3.985	0.60	3 p
32151 2000 LX ₃₁	20.	0.20	1 DW	32777 1987 QF ₁	6.373	0.38	2 W
32166 2000 NN ₆	4.412	0.51	2 W	32798 1990 OA ₂	10.509	0.64	2 W
32172 2000 NB ₁₁	6.86	0.96	2 W	32799 1990 QN ₁	9.49636		3 p Ns
32199 2000 ON ₂	5.214	0.09	1 W	32800 1990 QC ₁₉	3.709	0.14-0.17	3
32202 2000 OA ₃	37.495	0.65	2 W	32802 1990 SK	2.427	0.12	3-
32208 Johnpercy	5.086	0.75	2 W	32814 1990 XZ	2.8509	0.09-0.15	3 p
32209 2000 OW ₉	4.559	0.21	3-	32819 1991 PM ₁₅			HNW
32212 2000 OV ₁₁	6.729	0.55	2 W	32842 1992 EO ₁₃	79.3	0.75	2-
32215 2000 OG ₁₆	8.00	0.73-0.90	2 W	32856 1992 SA ₂₅	13.507	0.40	3
32217 Beverlyge	16.432	0.38	2 W	32861 1993 FM ₇	86.890	0.08	1 W
32218 2000 OE ₁₉	2.61	0.23	2 W	32868 1993 CV ₂₅		1.04	W
32219 2000 OU ₂₀	7.172	0.18	2 W	32873 1993 FS ₃₇	4.639	0.54	2 W
32226 Vikulgupta	2.57	0.34-0.35	2 W	32882 1993 RW ₆	3.07	0.23	2-
32232 2000 OU ₂₇	5.68	0.19-0.36	2+	32890 Schwob	7.930	0.67	3-
32239 2000 OB ₃₉	4.769	0.59	2 W	32895 1994 JL ₅	14.02	0.24	1 DAW
32254 2000 OR ₅₁	5.433	0.31-0.33	2 W	32906 1994 RH	2.569	0.12	3-
32257 2000 OW ₅₂	11.413	0.20	2 A	32910 1994 TE ₁₅	5.5596	0.14-0.16	3
32259 2000 OT ₅₃	3.690	0.34	2 W	32928 Xiejialin	38.9	0.56	2 TO
32262 2000 OA ₆₀	10.11	1.12	2 W	32929 1995 QY ₉	7.0	0.6	2
32264 Cathjesslai	4.58	0.64	2 W	32947 1995 YH ₂	4.395	0.71	2 W
32281 Shreyamenon	13.15	0.37	2 W	32953 1996 GF ₁₉	4.329	0.13-0.13	2
32282 Arnoldmong	95.	0.3	1 W	32960 1996 NO ₄	3.142	0.16	2 W
32290 2000 QH ₅	3.590	0.27-0.28	2 W	32986 1996 XQ ₆	8.181	0.23	2 W
32329* 2000 QJ ₆₄	3.836	0.40	3	32990 Sayo-hime	4.788	0.50	2 W
32339 2000 QA ₈₈	9.778	0.63-0.71	2 W	32992 1997 AN ₃	7.688	0.67	2 W
32354 2000 QN ₁₁₉	3.93	0.18	2 W	32996 1997 CV	8.857	0.79-0.87	2 W
32358 2000 QS ₁₂₄	21.82	0.28	2 W	33017 Wronski	3.765	0.26	2 W
32359 2000 QZ ₁₂₈	8.647	0.27	2 W	33018 1997 HT ₅	7.907	0.42	2 W
32370 2000 QY ₁₅₁	long		1+	33031 1997 RX	8.372	0.43	2 W
32378 2000 QB ₁₇₃	5.382	0.45	2 W	33046 1997 UF ₂	2.67219	0.09	2+
32395 2000 QV ₂₁₃	15.349	0.60	2 W	33054 1997 UU ₁₄	81.345	0.70	2 W
32407 2000 RT ₁	4.867	0.20	2 W	33097 1997 YB ₇	11.419	0.34-0.35	2 W
32412 2000 RW ₂₅	3.838	0.15	2 W	33102 1997 YJ ₁₁	14.660	0.34	2 W
32414 2000 RT ₂₉	33.253	0.68	2 W	33107 1997 YL ₁₆	5.173	0.28	3
32422 2000 RO ₄₂	3.557	0.38	2 W	33108 1997 YJ ₁₈	155.	0.4	1+
32423 2000 RO ₄₃	18.248	0.44	2 W	33116 1998 BO ₁₂	6.345	0.34-0.36	3-p
32433 2000 RF ₉₂	4.47	0.15	2 W	33121 1998 BR ₁₅	6.280	0.74-0.80	2 W
32435 2000 RZ ₉₆	18.606	0.32	2 W	33125 1998 BU ₃₃			HNW
32441 2000 RO ₁₀₀	4.03	0.36	2+	33126 1998 BB ₃₄	7.27	0.29	2 W
32445 2000 RC ₁₀₄	7.661	0.33-0.36	2 W	33127 1998 BO ₄₆	30.910	0.54	2 W
32448 2000 SD ₁₂	8.35	0.64	2-	33128 1998 BU ₄₈	12.6	0.68	2 A
32460 2000 SY ₉₂	49.66	0.22	3-	33150 1998 DN ₁₀	5.33	0.14	1 1W
32479 2000 SL ₃₁₂	>8.	>0.05	1+	33159 1998 DT ₃₃	14.341	0.44	2 W
32482 2000 ST ₃₅₄	5.67	0.16	3-	33165 1998 EO ₂	17.754	0.40-0.41	2 W
32483 2000 SM ₃₆₂	10.821	0.69	2 W	33197 Charlallen	6.736	0.32-0.34	2 W
32495 2000 WT ₁₇₁	17.203	0.17	2 W	33203 1998 FA ₅₇	3.0	0.26	2-
32496 2000 WX ₁₈₂	23.34	0.19	3-	33214 1998 FP ₉₀	15.977	0.31	2 W
32505 2001 KF ₁₇	4.58	0.41-0.50	3-	33229 1998 FC ₁₂₄	>5.		N
32506 2001 KP ₃₀	4.818	0.72	2 W	33259 1998 HL ₃₉	4.31	0.60	3
32518 2001 OZ ₆₉	3.20	0.47	2+	33265 1998 HC ₆₃	3.62	0.21	2 W
32522 Judiepersons	3.62	0.26-0.27	2 W	33272 1998 HC ₁₀₂	5.867	0.62	2 W
32523 2001 OY ₈₂	2.942	0.36	2 W	33277 1998 HO ₁₁₉	6.299	0.66	2 W
32526 2001 OD ₉₈	3.890	0.35	2 W	33295 1998 KV ₄₀	101.321	0.90-0.98	2 W
32532 Thereus	8.335	0.16-0.38	3	33296 1998 KN ₄₂	3.147	0.18	2 W
32534 2001 PL ₃₇	155.461	0.45	2 W	33305 1998 KQ ₅₀	20.410	0.50	2 W
32535 2001 PZ ₄₀	6.695	0.73	2 W	33307 1998 KX ₅₂	6.973	0.30-0.41	2 W
32539 2001 PD ₅₉	276.307	0.67	2 W	33313 1998 KJ ₆₀	105.009	0.62	2 W
32546 2001 QE ₁₄	5.046	0.37	2 W	33319 Kunqu	105.	0.9	2+
32553 2001 QC ₂₇	4.00	0.26-0.36	2 W	33324 1998 QE ₅₆	6.183	0.62-0.86	3
32575 2001 QY ₇₈	4.5344	0.86	3 p	33325* 1998 RH ₃	3.355	0.57	3
32586 2001 QQ ₁₁₆	20.875	0.50	2 W	33329 Stefanwan	3.45	0.21	2 W
32587 2001 QO ₁₁₇	3.146	0.06	1 W	33340 1998 VG ₄₄		<0.10	
32600 2001 QF ₁₇₃	7.855	0.72	2 W	33341 1998 WA ₅	204.	0.57	3-
32602 2001 QE ₁₈₅	5.928	0.18	2 W	33342 1998 WT ₂₄	3.697	0.19-0.65	3 p
32615 2001 QU ₂₇₇	6.712	0.36	3	33343 Madorobin	6.21	0.15	1 W
32618 Leungkamcheung	3.077	0.32	2 W	33356 1999 AM ₃	37.59	0.92	3-
32626 2001 RX ₆₄	6.23	0.43	3-	33358 1999 AD ₈	5.996	0.63	2 W
32632 2001 RS ₇₅	6.673	0.27	2 W	33362 1999 BP ₁	4.258	0.44	2 W
32648 3538 P-L	9.934	0.56	2 W	33372 Jonathanchung	>24.	>0.15	2-
32650 4070 P-L	2.520	0.38	2 W	33380 1999 CC ₃₃	2.894	0.07	1 W
32678 7566 P-L	6.985	0.29	2 W	33391 1999 CN ₅₁	2.46	0.14	1 W
32686 2072 T-1	7.16	0.61	3-	33404 1999 CT ₇₃	15.655	0.57	2 W
32705 2157 T-2	98.	0.5	1 W	33440 1999 FR ₁₈	3.745	0.67	2 W
32720 Simoeisios	8.951	0.37	2 W	33442 1999 FW ₁₈	4.92	0.26	1 1W
32734 Kryukov	16.55	0.37	2 W	33474 1999 FB ₅₁	19.762	0.29	2 W
32750 1981 EG ₉	100.	0.6	1	33478 Deniselivon	5.108	0.63	2 W

MINOR PLANET LIGHTCURVE PARAMETERS

Planet	Period	Variation	Note	Planet	Period	Variation	Note
33489 1999 GF ₉	6.74	0.97	3-	34260 2000 QG ₁₂₀	5.3	0.43	2-
33517 Paulfoltin	11.844	0.48	2 W	34285 2000 QA ₁₄₇	13.466	0.44	2 W
33531 1999 HG ₂	8.911	0.58-0.62	2 W	34294 2000 QM ₁₅₂	3.247	0.14	2 W
33532 Gabriellacoli	6.792	0.82	2 W	34301 2000 QO ₁₇₁	43.032	0.42	2 W
33539 Elenaberman	9.135	0.50	2 W	34318 2000 QV ₁₉₂	6.35105		p Ns
33543* 1999 JR ₈	82.	0.60	2 W	34319 2000 QD ₁₉₃	8.57	0.57	2 W
33548 1999 JC ₁₃	3.97	0.33	2	34322 2000 QW ₁₉₆	72.585	0.58	2 W
33556 BrennancClark	3.86	0.12	2+	34331 2000 QH ₂₀₉	5.39	0.18	1+
33558 1999 JN ₂₂	9.67	0.72	2 W	34345 2000 RY	9.24	0.42	1
33563 1999 JV ₂₄	14.264	0.44	2 W	34346 2000 RJ ₁	17.104	0.22	2 W
33577 1999 JX ₃₃	5.533	0.21	2 W	34347 2000 RN ₁	4.003	0.44	2 W
33579 1999 JC ₃₅	21.290	0.39-0.41	2 W	34389 2000 RW ₆₁	2.83	0.26	2 W
33612 1999 JZ ₆₂	6.557	0.69	2 W	34402* 2000 RW ₈₄	71.8	0.43	NW
33619 Dominickrowan	4.377	0.27	2 W	34421 2000 SA ₁₂	5.599	0.24-0.33	2 W
33639 1999 JB ₈₁	2.956	0.63	2 W	34426 2000 SS ₂₂	6.40	0.73-0.82	2 W
33646 1999 JX ₈₂	3.33	0.08	2+	34427 2000 SN ₂₃	3.175	0.22	2 W
33657 1999 JP ₈₉	5.03	0.21	2 W	34440 2000 SV ₄₆	7.859	0.54	2 W
33665 1999 JR ₉₃	>10.	>0.4	1	34442 2000 SS ₆₄	5.3325	0.83-0.84	3
33670 1999 JB ₉₈	3.026	0.45	2 W	34449 2000 SJ ₇₉	13.52	0.93	1+
33679 1999 JY ₁₀₇	>12.	>0.15	2	34459 2000 SC ₉₁	2.7791	0.14	2+
33682 Waylonreid	4.904	0.55	2 W	34469 2000 SM ₁₁₀	6.036	0.63	2 W
33684 Xiaomichael	5.87	0.66	2-	34484 2000 SR ₁₂₄	6.174	0.80	2+
33699 1999 KT ₁₂	124.044	0.33	2 W	34488 2000 SO ₁₃₅	5.117	0.44	2 W
33736 1999 NY ₃₆	211.	0.4	2 T?	34502 2000 SE ₁₅₇	4.71	0.05	2
33741 1999 NB ₅₀	6.155	0.27-0.28	2 W	34511 2000 SK ₁₇₅	4.710	0.50	2 W
33749 1999 QO	7.831	0.37	2 W	34529 2000 SD ₂₁₂	3.71	0.60-0.65	3-
33750 Davehiggins	8.827	0.20-0.25	3	34535 2000 SR ₂₂₀	7.813	0.35	2 W
33764 1999 RM ₉₂	7.04	0.36-0.39	2 W	34546 2000 SG ₂₃₄	6.761	0.09	1 W
33776 1999 RB ₁₅₈	16.9593		p Ns	34549 2000 SA ₂₃₈	4.674	0.41	2 W
33778 1999 RO ₁₆₀	5.295	0.24	2 W	34551 2000 SJ ₂₄₂	22.677	0.62	2 W
33785 1999 RD ₁₉₂	7.126	0.29	2 W	34557 2000 SE ₂₇₀	80.550	0.49	2 W
33788 1999 RL ₂₄₀	54.669	0.57-0.57	2 W	34563 2000 SS ₂₉₀	38.317	0.26	2 W
33790 1999 SA ₉	3.179	0.17	2 W	34565 2000 SY ₂₉₂	16.555	0.11	2 W
33791 1999 SG ₁₇	5.358	0.56	2 W	34572 2000 SY ₃₁₀	6.64	0.57	3
33813 1999 XH ₁₇₇	11.750	0.65	2 W	34575 2000 SH ₃₂₇	8.42	0.16	2 W
33816 2000 AL ₄₂	193.	0.12	2-	34587 2000 SA ₃₅₇	3.032	0.16-0.17	2 W
33844 2000 GQ ₁₃₃	6.139	1.00	2 W	34591 2000 TB ₁₅	7.402	0.52	2 W
33854 2000 HH ₅₃	4.42348		p Ns	34606 2000 UT	21.586	0.50	2 W
33862 2000 HS ₉₉	3.715	0.29	2 W	34610 2000 UV ₉	33.933	0.20	2 W
33873 2000 JS ₅₂	3.612	0.28	2 W	34621 2000 UJ ₅₅	6.220	0.61	2 W
33891 2000 KS ₂₄	4.261	0.24	2 W	34628 2000 UA ₉₉	6.902	0.57	2 W
33896 2000 KL ₄₀	23.8	0.26	2	34642 2000 WN ₂	7.374	0.13	2-
33908 2000 LL ₆	5.91	0.25	3	34681 2001 BB ₂₂	9.637	0.31	2 W
33910 2000 LJ ₉	79.959	0.58	2 W	34688 2001 FG ₁₁₉	6.19	0.44	2 W
33916 2000 LF ₁₉	4.4099	0.41	3	34694 2001 MK ₁₈	4.4626	0.43	3
33933 2000 LE ₂₉	2.447	0.35-0.46	2 W	34706 2001 OP ₈₃	2.5946	0.13-0.16	3 B
33934 2000 LA ₃₀	5.2	0.30	2-	34715 2001 PO ₁₂	13.446	0.50-0.54	2 W
33956 2000 NN ₃	3.22	0.30	3 W	34726 2001 QA ₂₅	15.47	0.35-0.61	2
33957 2000 NG ₅	10.244	0.11	2 W	34728 2001 QM ₃₀	5.179	0.57	2 W
33974 2000 ND ₁₇	4.67868		p Ns	34734 2001 QS ₆₄	3.60	0.35-0.38	2 W
33981 2000 NH ₂₂	2.816	0.19	2+	34735 2001 QA ₆₉	3.843	0.06	1 W
33982* 2000 NQ ₂₃	4.228	0.33-0.42	3	34739 2001 QO ₇₅	11.345	0.21	2 W
33989 2000 NC ₂₇	21.872	0.39	2 W	34742 2001 QD ₇₉	8.81	0.30	2
33993 2000 OS	19.500	0.34	2 W	34746 2001 QE ₉₁	19.633	0.56	3
34030 2000 OM ₂₆			HNW	34759 2001 QL ₁₅₁	12.219	0.28	3-
34035 2000 OV ₂₇	>10.		N	34777 2001 RH	7.4947	0.36-0.40	3
34036 2000 OX ₂₇	14.143	0.90	3-	34781 2001 RK ₆₃	11.280	0.25	2 W
34045 2000 OD ₃₄	287.260	0.23	2 W	34794 2001 SS ₂₅	10.589	0.35-0.54	2 W
34057 2000 ON ₄₄	7.391	0.80	2 W	34803 2001 SW ₆₃	8.864	0.27	2 W
34064 2000 OK ₅₁	3.902	0.63	2 W	34817 Shiominemoto	6.382	0.75-0.87	3 p
34078 2000 PF			HNW	34824 2001 SY ₁₅₆	6.229	0.13-0.15	2 W
34087 2000 PA ₇	4.169	0.53	2 W	34832 2001 SU ₂₃₄	5.05	0.81	2 W
34095 2000 PW ₁₁	4.598	0.53	2 W	34839 2001 SL ₂₆₃	16.966	0.57	2 W
34102 2000 PO ₁₆	4.646	0.50	2 W	34843 2001 SZ ₂₇₆	3.093	0.30	2 W
34110 2000 PX ₂₄	14.194	0.73	2 W	34850 2001 TL ₈	25.212	0.53	2 W
34111 2000 PZ ₂₄	58.5	0.22	2-	34880 2001 UN ₄₅	4.898	0.64	2 W
34118 2000 PC ₂₇	9.180	0.18	2 W	34895 2026 P-L	5.893	0.76	2 W
34126 2000 QA ₁	3.54	0.16	2 W	34946 2286 T-1	2.255	0.18	2 W
34137 Lonnielinda	9.3	0.52-0.77	3-	34961 2252 T-2	2.975	0.26	2 W
34154 2000 QC ₂₀	6.606	0.54-0.72	2 W	34966 3260 T-2	3.224	0.07	1 W
34155 2000 QJ ₂₂	3.0084	0.10	2+	34978 1901 T-3	14.52	0.39	2 W
34173 2000 QY ₃₇	3.521	0.33	2+	34979 2173 T-3	2.49	0.18	3-
34175 2000 QG ₃₉	9.904	0.09	1 W	34999 1978 VC ₃	4.647	0.22	2 W
34180 2000 QP ₄₂	2.96	0.32	2 W	35002 1978 VY ₈	18.238	0.25	2 W
34189 2000 QD ₄₈	9.629	0.21	2 W	35005 1979 MY ₃	7.245	0.32-0.45	2 W
34192 2000 QE ₅₀	9.240	0.24	2 W	35012 1981 EU ₂	40.311	0.57	2 W
34217 2000 QA ₇₈	7.314	0.24-0.25	2 W	35035 1981 ER ₂₉	5.005	0.75	2 W
34226 2000 QM ₈₈	3.25	0.22-0.26	2 W	35040 1981 EV ₃₃	84.183	0.58	2 W
34232 2000 QL ₉₄	6.78	0.86	2 W	35055 1984 RB	3.658	0.35-0.49	3
34242 2000 QD ₁₀₀	5.385	0.62	2 W				

MINOR PLANET LIGHTCURVE PARAMETERS

Planet	Period	Variation	Note	Planet	Period	Variation	Note			
35062	Sakuranosyou	19.08	0.40	2	35992	1999 NF ₁₂	9.716	0.42	2	W
35063	1988 FD	2.682	0.11	2	36017	1999 ND ₄₃	5.79	0.28-0.28	2	W
35087	von Sydow	36.1	0.55	2	36035	Petrвок	7.961	0.71-0.92	2	W
35107	1991 VH	2.6236	0.08-0.15	3	36056	1999 RX ₃₂	14.478	0.30	2	W
35131	1992 PE ₂	14.790	0.47	2	36057	1999 RC ₃₃	5.424	0.35	2	W
35154	1993 FF ₅₃	7.515	0.66	2	36059	1999 RT ₃₉	28.382	0.64	2	W
35165	Quebec	21.301	0.68	2	36061	Haldane	8.47	0.26	1+	W
35179	1993 TK ₂₈	5.103	0.27	2	36078	1999 RK ₆₂	8.230	0.77	2	W
35188	1993 VP ₃	19.348	0.19	2	36081	1999 RG ₇₁	9.911	0.57	2	W
35194	1994 ET ₃	8.912	0.67	3	36090	1999 RN ₁₀₀	10.973	0.44	2	W
35203	1994 PF ₁₅	5.564	0.46	2	36091	1999 RS ₁₀₀	3.434	0.66	2	W
35218	1994 WU ₂	11.56991		2	36092	1999 RS ₁₀₂	15.261	0.56	2	W
35230	1995 GW	5.19	0.18	2	36102	1999 RA ₁₁₆	8.28	0.90	2-	W
35259	1996 HN ₂₄	230.	0.45	2-	36103	1999 RL ₁₁₆	446.531	0.39	2	W
35286	Takaoakihiro	724.146	0.93	2	36105	1999 RF ₁₁₈	9.493	0.66	2	W
35291	1996 TN ₄₆	13.220	0.09	1	36109	1999 RB ₁₂₂	6.49	0.31	2	W
35307	1996 XG ₂₀	64.541	0.75	2	36123	1999 RS ₁₄₆	6.621	0.79	2	W
35323	1997 CD ₂₆	6.992	0.62	2	36125	1999 RG ₁₄₇	17.199	0.36	2	W
35340	1997 GV ₁₈	12.519	0.84	3-	36148	1999 RF ₁₉₂	3.585	0.41	2	W
35348	1997 JO ₁₈	5.536	0.58	2	36170	1999 RF ₂₄₂	2.907	0.22	2	W
35352	Texas	2.54	0.61	2	36175	1999 ST ₆	11.626	0.50	2	W
35355	1997 SB ₂	21.478	0.40	2	36183	1999 TX ₁₆	5.6121	1.3	2	N
35360	1997 TY ₁₁	2.896	0.11	2	36185	1999 TG ₂₅	27.428	0.18	2	W
35363*	1997 TV ₂₈	18.779	0.32-0.33	2+	36187	Travisbarman	8.65	0.55-0.65	3-	W
35364	Donaldpray	5.477	0.59-1.00	3	36192	1999 TC ₈₉	8.263	0.54	2	W
35369	1997 UJ ₁₁	2.48	0.15	1	36218	1999 TK ₂₂₀	3.87	0.50-0.51	2	W
35373	1997 UT ₂₅	4.85	0.60	2	36221	1999 TS ₂₄₄	7.808	0.51	2	W
35389	1997 XO	1.37	0.18	2	36224	1999 TE ₂₆₈	11.914	0.36-0.69	2	W
35396	1997 XF ₁₁	3.259	0.52-0.93	3	36227	1999 UR ₅	321.975	0.07	1	W
35404*	1997 YV ₅	5.74543	0.34-0.62	3	36236	1999 VV	6.19	0.14	2+	W
35424	1998 BK	4.214	0.30	2	36269	1999 XB ₂₁₄	6.777	0.30	2	W
35425	1998 BY	4.6	0.70	2+	36281	2000 CN ₈₅	16.143	0.24	2	W
35430	1998 BT ₆	7.	0.82	2	36284	2000 DM ₈	3.844	0.22-0.25	3	W
35449	1998 CR ₃	13.599	0.65	2	36294	2000 GS ₁₅₂	7.609	0.22	2	W
35475	1998 EP ₉	4.96	0.17	2-	36298	2000 JF ₁₀	82.	0.75	2-	T?
35481	1998 FA ₈	8.50	0.32	1+	36303	2000 JM ₅₄	4.93652		2	Ns
35491	1998 FQ ₂₇	3.60	0.27	2	36316	2000 LC ₁₂	56.5	1.22	2	T
35501	1998 FM ₄₁		0.51	2	36324	2000 LT ₂₇			2	HNW
35504*	1998 FF ₄₃	7.44	0.56	3-	36344	2000 NP ₁₉	5.82	1.04	3	W
35513	1998 FL ₅₃	13.581	0.53	2	36349	2000 NZ ₂₃	6.7	0.38-0.39	2+	W
35530	1998 FE ₇₀	5.692	0.13	2	36367	2000 OF ₁₂	8.58		2	N
35532	1998 FV ₇₁	123.820	0.40	2	36378	2000 OL ₁₉	4.3437	1.10	2	W
35545	1998 FQ ₁₀₃	2.30	0.20	2	36379	2000 OA ₂₄	3.21	0.15	2	A
35552	1998 FE ₁₁₅	3.628	0.31	2	36393	2000 OM ₄₂	16.309	0.49	2	W
35596	1998 HZ ₁₁₇	2.025	0.09	1	36395	2000 OS ₄₂	12.546	0.50	2	W
35625	1998 KK ₈	10.057	0.31	2	36402	2000 OT ₄₇	8.20	0.57-0.59	3-	W
35647	1998 KA ₆₇	8.833	0.89	2	36405	2000 OB ₄₈	6.6	0.36-0.82	2+	W
35652	1998 MT ₂₉	30.580	0.45	2	36429	2000 PX ₉	2.583	0.08	1	W
35661	1998 QV ₃₉	6.589	1.09	2	36432	2000 PQ ₁₂	34.491	0.57	2	W
35671	1998 SN ₁₆₅	8.84	0.16	2	36439	2000 PT ₂₆	5.579	0.50	2	W
35673	1998 VQ ₁₅	31.0	0.52-0.58	2	36484	2000 QD ₃₇			2	HNW
35689	1999 CD ₁₂	39.202	0.33	2	36487	2000 QJ ₄₂	8.151	0.52-0.64	2	p
35690	1999 CT ₂₁	9.06	0.48-0.60	2	36496	2000 QK ₄₉	5.31	0.35	3	s
35694	1999 CP ₅₄	7.01	0.51	3-	36510	2000 QM ₇₁	7.189	0.53	2	W
35697	1999 CG ₁₀₄	277.598	0.92	2	36514	2000 QA ₇₄	2.437	0.23	2	W
35715	1999 FD ₃₂	8.744	0.41	2	36516	2000 QV ₇₄	16.381	0.64	2	W
35722	1999 FM ₄₁	5.537	0.74	2	36522	2000 QZ ₇₉	7.236	1.12	2	W
35725	Tramuntana	2.63	0.27	2-	36524	2000 QS ₈₀	4.262	0.39-0.40	2	W
35728	1999 GA ₂	5.070	0.65	2	36542	2000 QZ ₉₇	4.26	0.44	3	W
35774	1999 JL ₉	7.860	0.15	2	36570	2000 QC ₁₂₁	6.214	0.64-0.77	2	W
35783	1999 JU ₂₀	40.650	0.17	2	36605	2000 QT ₁₄₂	3.33	0.21	2	W
35797	1999 JY ₃₁	3.52	0.32	3-	36613	2000 QW ₁₄₅	97.291	0.78	2	W
35821	1999 JW ₅₀	4.931	0.54	2	36624	2000 QA ₁₅₇	8.531	0.20	2	W
35830	1999 JL ₅₄	99.370	0.91	2	36664	2000 QN ₂₁₁	3.12	0.24	2	W
35833	1999 JN ₅₇	92.064	0.73	2	36679	2000 QH ₂₃₁	4.289	0.56	2	W
35842	1999 JX ₅₉	3.39	0.42	1+	36680	2000 RK ₁	6.073	0.97	2	W
35851	1999 JW ₆₂	6.423	0.84-0.97	2	36697	2000 RC ₁₇	28.602	0.35	2	W
35859	1999 JN ₆₆	6.49	0.25	3	36713	2000 RV ₃₃	116.920	0.52	2	W
35863	1999 JX ₆₇	7.719	0.66-0.70	2	36721	2000 RK ₄₂	3.29	0.23	1	W
35883	1999 JH ₇₈	2.805	0.08	1	36727	2000 RV ₄₆	19.724	0.21	2	W
35886	1999 JG ₈₀	3.19	0.12	2	36731	2000 RR ₅₀	7.494	0.10	1	W
35913	1999 JC ₉₇	5.016	0.29-0.33	2	36737	2000 RP ₆₀	2.582	0.08	1	W
35919	1999 JY ₉₉	5.942	0.61	2	36767	2000 RG ₉₂	5.123	0.10	1	W
35920	1999 JJ ₁₀₁	2.690	0.18	2	36804	2000 SX ₆₁	5.657	0.78	2	W
35922	1999 JO ₁₀₂	5.61	0.57-0.75	2	36865	2000 SQ ₁₄₆	9.616	0.19	2	W
35926	1999 JL ₁₀₅	9.947	0.28	2	36874	2000 SF ₁₅₁	3.297	0.07	1	W
35928	1999 JV ₁₀₇	7.26361		2	36877	2000 SX ₁₅₂	4.80	0.19	2	W
35965	1999 LH ₁₃	6.76072		2	36886	2000 SV ₁₆₁	7.03	0.38	1	W
35967*	1999 LG ₁₄	5.304	0.53	3	36893	2000 SA ₁₇₀			2	HNW
35971	1999 LJ ₂₆	9.328	0.10	1	36896	2000 SQ ₁₇₁	56.741	0.46	2	W

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Planet				Planet			
Planet	Period	Variation	Note	Planet	Period	Variation	Note
36897	2000 SB ₁₇₂	3.480	2 W	38025	1998 QF	13.301	0.27 2 W
36936	2000 SF ₂₂₇	6.525	2 W	38047	1998 TC ₃	3.762	0.54-0.78 3
36944	2000 SD ₂₄₉	6.09677	p Ns	38048	1998 UL ₁₈	30.0	0.15 1
36976*	2000 SU ₃₁₈	2.4	2 N	38050	1998 VR ₃₈	18.854	0.09-0.37 3
36985	2000 SH ₃₄₉	5.42	2 W	38052	1998 XA ₇	8.21	0.63 2 W
37023	2000 UD ₂	5.442	2 W	38061	1999 DJ ₁	47.022	0.55 2 W
37031	2000 UD ₈	15.230	2 W	38063	1999 FH	990.	0.55 2 T?
37033	2000 UX ₈	8.033	2 W	38064	1999 FZ ₁₀	3.672	0.09 1 W
37040	2000 UP ₂₂	4.305	2 W	38071	1999 GU ₃	216.	1.40-1.50 3 T?
37071	2000 UY ₅₁	4.010	2 W	38100	1999 JM ₁₄	7.269	0.40 2 W
37076	2000 UK ₅₄	8.506	2 W	38101	1999 JE ₁₅	56.646	0.89 2 W
37088	2000 UE ₇₀	3.359	2 W	38108	1999 JB ₂₄	2.449	0.11 2 W
37105	2000 UA ₁₀₁	4.214	2 W	38140	1999 JX ₅₈	14.476	0.64 2 W
37106	2000 UC ₁₀₁	188.465	2 W	38156	1999 JQ ₇₁	5.681	0.61 2 W
37112	2000 UG ₁₀₄	4.05	2+ W	38167	1999 JU ₈₈	2.76	0.18 1+ W
37125	2000 VP ₁₂	4.23	3- W	38176	1999 JR ₁₁₉	5.27	0.62-0.73 3- W
37139	2000 VH ₃₈	28.925	1 W	38180	1999 JR ₁₂₃	6.53	0.78-0.79 3 W
37142	2000 VK ₄₁	47.068	2 W	38212	1999 NM ₅	4.669	0.63 2 W
37163	Huachuclub	5.967	2 W	38222	1999 NP ₃₁		0.50 W
37184	2000 WC ₅₃	7.87	2 W	38231	1999 NF ₅₄	44.86	0.28 2 W
37201	2000 WS ₉₄		HNW	38238	Holič	11.71	0.42-0.57 2 W
37212	2000 WO ₁₂₆	108.218	2 W	38264	1999 RC ₂₂	13.908	0.50 2 W
37224	2000 WH ₁₄₂	4.770	2 W	38268	Zenkert	6.	0.55 2-
37274	2000 XO ₄₂	9.035	3	38270	Wetzell	8.28	0.52 2 W
37283	2000 YA ₇₁	3.242	2 W	38296	1999 RD ₈₇	5.16	0.79 3- W
37285	2000 YJ ₇₈	3.094	1 W	38310	1999 RH ₁₀₅	8.866	0.37 2 W
37287	2000 YM ₁₀₁	23.	1+ W	38311	1999 RV ₁₀₆	25.626	0.50 2 W
37306	2001 KW ₄₆	5.621	2	38325	1999 RD ₁₂₈	15.749	0.69 2 W
37325	2001 QG ₇₈	5.341	1 W	38333	1999 RE ₁₃₂	3.524	0.42 2 W
37339	2001 RQ ₉₄	6.871	2 W	38339	1999 RH ₁₃₇	3.738	0.27-0.30 2 W
37346	2001 SU ₁₅₄	3.26	3- W	38342	1999 RT ₁₃₉		HNW
37351	2001 TE ₃₆	24.	1+ W	38350	1999 RS ₁₄₉	4.928	0.45 2 W
37445	3056 P-L		W	38405	1999 RS ₂₀₂	8.831	0.37 2 W
37451	4280 P-L	3.11	2 W	38426	1999 RT ₂₃₀	34.962	0.47 2 W
37504	3052 T-2	3.16	1 W	38436	1999 RS ₂₄₁		HNW
37506	3107 T-2	5.044	2 W	38453	1999 TU ₁	6.124	0.79 2 W
37519	Amphios	50.93	2+ W	38454	Boroson	138.816	0.85 2 W
37526	5721 T-3	5.249	2 W	38465	1999 TL ₂₈	13.400	0.51 2 W
37534	1980 FL ₄	5.293	2 W	38490	1999 TA ₁₁₇	2.96	0.27 3 W
37546	1981 ET ₂₀	>24.	1	38499	1999 TT ₁₆₁	8.584	0.54 2 W
37568	1989 TP	51.85	2	38516	1999 TQ ₂₄₈	5.047	0.36 2 W
37569	1989 UG	6.858	2 W	38530	1999 UY ₁₄	4.03	0.46 3 W
37586	1991 BP ₂	900.	2 TO	38533	1999 UQ ₃₃	20.7	0.62 2 W
37613	1993 FE ₄₀	7.622	2 W	38540	Stevens	6.583	0.60 2 W
37631	1993 TT ₂₇	6.242	2 W	38541	Rustichelli	5.898	0.47 2 W
37634	1993 UZ	82.0	2+ TO	38559	1999 VC ₁₁₅	13.950	0.39 2 W
37635	1993 UJ ₁	600.	3 TO	38568	1999 VE ₁₈₄	9.120	0.62 2 W
37637	1993 UZ ₅	5.366	2 W	38574	1999 WS ₄	7.085	0.22 2 HW
37655	Illapa	2.6556	0.08-0.11 3	38575	1999 XH ₂	4.551	0.44 2 W
37672	1994 VC		HNW	38593	1999 XF ₁₆₆	16.849	0.57 2 W
37694	1995 WC ₆	31.418	2 W	38605	1999 YV ₁₀	5.474	0.45 2 W
37703	1996 CD ₁	3.71	3 W	38617	2000 AY ₁₆₁	10.7	0.16 2-
37719	1996 SG ₆	2.309	2 W	38628	Huya	5.28	0.02 2- B
37734	1996 UR ₃	7.014	2 W	38637	2000 LL ₃₅	2.974	0.29 2 W
37744	1996 XU ₁₄	35.51	3-	38653	2000 OT ₂₂	4.95	0.69-0.77 2 W
37750	1997 BZ	5.15	2 HW	38656	2000 OR ₄₅	7.052	0.66 2 W
37751	1997 CH ₁	5.68	2 W	38663	2000 OK ₄₉	5.51	1.24 2-
37754	1997 CX ₁₅	2.93	2- W	38665	2000 OC ₅₂	2.955	0.16 2 W
37764	1997 GT ₃	7.669	2 W	38678	2000 PS ₂₆	20.544	0.13 2 W
37766	1997 GM ₁₁	7.378	2 W	38694	2000 QO ₄₆	2.919	0.30 2 W
37771	1997 GQ ₂₂	6.764	2 W	38701	2000 QB ₆₆	195.141	0.48 2 W
37776	1997 GW ₂₈	42.409	2 W	38706	2000 QP ₈₃	7.848	0.41 2 W
37781	1997 HB ₁₃	5.656	2 W	38707	2000 QK ₈₉	6.1509	0.36 3-
37799	1997 WC ₃₁	8.956	2 W	38713	2000 QJ ₁₁₆	60.372	0.42 2 W
37801	1997 WO ₄₇	37.50	>1. 2	38718	2000 QW ₁₂₁	3.088	0.43 2 W
37835	1998 BC ₄₄	8.459	2 W	38741	2000 QO ₁₈₀	34.954	0.12 2 W
37854	1998 EY ₁₁	2.112	1 W	38785	2000 RR ₄₃	10.098	0.35 2 W
37866	1998 FU ₁₅		HNW	38798	2000 RB ₅₄	12.495	0.64-0.88 2 W
37882	1998 FE ₄₉	6.021	2 W	38800	2000 RA ₅₅	5.792	0.55 2 W
37892	1998 FA ₆₁	6.647	2 W	38809	2000 RT ₆₉	4.273	0.47 2 W
37906	1998 FR ₇₃	5.272	2 W	38814	2000 RR ₇₂	6.23	0.74 2 W
37928	1998 FO ₁₂₁	3.05	2 W	38831	2000 RC ₁₀₅	76.426	0.68 2 W
37947	1998 HJ ₂₀	5.985	0.30-0.31 2 W	38837	2000 SM ₂₃	16.818	0.21-0.25 2 W
37951	1998 HE ₄₂	8.719	2 W	38867	2000 SF ₁₁₂	30.724	0.59 2 W
37957	1998 HJ ₅₄	3.431	2 W	38872	2000 SP ₁₁₆	6.27	0.32 2 W
37959	1998 HM ₆₂	6.265	0.81-0.88 2 W	38879	2000 SO ₁₂₁	5.537	0.57 2 W
37976	1998 HC ₁₁₈	13.703	0.51-0.56 2 W	38892	2000 SS ₁₄₈	12.105	0.29 2 W
38000	1998 KK ₃₅	4.485	2 W	38909	2000 SQ ₁₇₂	12.900	0.27 2 W
38001	1998 KM ₃₇	5.61	2 W	38910	2000 SA ₁₇₈	6.397	0.22 2 W
38012	1998 KE ₅₄	2.67	2 W	38912	2000 SK ₁₇₉	7.095	0.64 2 W

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Planet	Period	Variation	Note	Planet	Period	Variation	Note
38923 2000 SM ₂₂₁	7.893	0.09	1 W	39698 1996 TX ₇	3.48	0.48	3 W
38929 2000 SH ₂₂₇	7.170	0.82	2 W	39704 1996 TG ₁₅	5.805	0.80	2 W
38939 2000 SH ₂₆₀	6.352	0.44	2 W	39705 1996 TO ₁₈	247.156	0.39	2 W
38963* 2000 TJ ₁₄	10.604	0.60	3- W	39716 1996 VD ₂	6.328	0.63-0.83	2 W
38984 2000 UZ ₄	19.20	0.70	2 W	39741 Komm	5.95	0.83	3
38987 2000 UB ₈				39745 1997 AK ₁₇	15.768	0.92	2 W
38990 2000 UZ ₁₇	136.185	0.70	2 W	39748 Guccini	5.459	0.51	2 W
38992 2000 UN ₂₀	6.921	0.61	2 W	39750 1997 CQ ₂			2 HNWW
38994 2000 UZ ₂₁	5.495	0.56-0.67	2 W	39752 1997 CB ₅	13.974	0.24	2 W
38995 2000 UJ ₂₄	3.14	0.31	N	39763 1997 FD ₃	4.119	0.15	2 W
38998 2000 UP ₂₆	6.204	0.19	2 W	39783 1997 LB ₁	2.15	0.36	N
38999 2000 UV ₂₆	169.098	0.75	2 W	39791 Jameshesser	4.829	0.71	3
39008 2000 UU ₄₁	2.49	0.16	2 W	39796 1997 TD	223.5	0.92	2 T?
39036 2000 UQ ₇₈	170.398	0.81	2 W	39797 1997 TK ₁₈	7.661	0.47	2 W
39043 2000 UT ₉₀	3.523	0.21	2 W	39806 1997 WX ₂	6.296	0.09	1 W
39049 2000 UJ ₉₇	6.372	0.61	2 W	39810 1997 WQ ₃₅	2.7737	0.12-0.18	3
39051 2000 UB ₉₉	6.4	0.86	2 W	39819 1997 YE ₁₀	2.641	0.17	2 W
39052 2000 UL ₉₉	6.661	0.69	2 W	39828 1998 BH ₄	14.2	0.13	1 A
39058 2000 UM ₁₀₄	9.064	0.28	1 5	39829 1998 BS ₄	5.331	0.71	2 W
39062 2000 US ₁₀₉	5.264	0.42	2 W	39830 1998 BS ₆	12.118	0.64	2 W
39066 2000 US ₁₁₂	15.208	0.58	2 W	39864 Poggiali	8.36	0.44	2 W
39076 2000 VL ₂₂	5.2	0.35	N	39881 1998 EK ₁₁	59.787	0.54	2 W
39086 2000 VG ₄₁	6.11	0.20	2 W	39890 Bobstephens	9.55	0.20	2
39087 2000 VN ₅₀	18.75	0.7	1	39909 1998 FM ₃₆	4.66	0.85	3- W
39088 2000 VO ₅₀	5.373	0.60	2 W	39916 1998 FH ₄₇	7.273	0.75	2 W
39118 2000 WD ₃₅	5.226	0.62	2 W	39929 1998 FZ ₇₁	4.033	0.38	2 W
39132 2000 WU ₅₈	20.663	0.69	2 A	39936 1998 FZ ₈₅	4.16	0.41	2 W
39137 2000 WX ₆₂	3.742	0.60	2 W	39979 1998 HT ₁₂	8.103	0.26	2 W
39138 2000 WU ₆₈	14.462	0.66	2 W	39991* lochroma	3.440	0.37-0.42	3
39145 2000 WU ₉₀	3.43	0.21	2- W	40002 1998 HS ₈₉	6.242	0.69	2 W
39148 2000 WM ₉₃		0.15		40003 1998 HW ₉₂	6.842	0.12	1 W
39196 2000 WN ₁₉₁	9.080	0.52	2 W	40036 1998 KT ₁₉	6.67	0.59	2 W
39197 2000 XA	5.221	0.72	2 W	40071 1998 KL ₅₉	7.462	0.31-0.84	2 W
39199 2000 XN ₇	7.727	0.48	2 W	40080 1998 MY ₉	14.243	0.54	2 W
39214 2000 XG ₄₂	6.243	0.54	2 W	40091 1998 MH ₄₁	39.275	0.66-0.68	2 W
39218 2000 YY ₃	54.444	0.99	2 W	40104 1998 QE ₄	4.475	0.60	2 p s
39231 2000 YZ ₃₈	4.686	0.52	2 W	40105 1998 QL ₄	4.21	0.31	2 W
39233 2000 YZ ₄₆	3.321	0.39	2 W	40146 1998 QR ₇₁	8.047	0.46	2 W
39240 2000 YZ ₆₉	105.	1.6	2- TOW	40165 1998 QP ₁₀₂	7.419	0.43	2 W
39246 2000 YU ₈₁	2.987	0.31	2 W	40170 1998 RK	7.614	0.43	2 W
39263 2000 YK ₁₃₉	6.099	0.65	2 W	40203 1998 SP ₂₇	5.448	0.37-0.38	3
39270 2001 AH ₁₁	82.191	0.14	2- HAW	40206 Lhenice			2 HNWW
39283 2001 BN ₄₅	2.87	0.11	2 W	40228 1998 TR ₁	3.40	0.23-0.28	2 W
39286* 2001 CX ₆	8.421	0.43-0.50	2+ HW	40229 1998 TO ₃	2.664	0.12	3- W
39289* 2001 CT ₂₈	19.062	0.76-1.04	2+ HW	40231 1998 TS ₆	36.261	0.73	2 W
39293 2001 DQ ₁₀	2.97	0.15	1 W	40234 1998 UG ₄	4.007	0.66	2 W
39297 2001 FE ₅₃	6.91	0.33	2 W	40237 1998 VM ₆	160.291	0.22	2 W
39304 2001 QX ₇₇	7.28	0.66	1 DAW	40250 1998 XG ₁₆	20.90	0.32	2 W
39316 2001 UH ₈₀	4.165	0.41	2 W	40254 1999 BB ₂₆	18.82	0.18	2- W
39317 2001 UU ₁₆₈	86.895	0.2 -0.75	2 W	40263 1999 FQ ₅	28.00	0.27	2 W
39319 2001 VT ₃₅	16.098	0.62	2 W	40267 1999 GJ ₄	4.9567	0.67-1.11	3
39326 2001 XL ₃₇	31.258	0.48	2 W	40273 1999 JS ₇	2.763	0.04	1 W
39339 2002 AD ₃₂	4.61	0.50	2 W	40278 1999 JC ₃₄	4.845	0.12	2 W
39354 2002 AX ₁₄₈	5.337	0.73	2 W	40279 1999 JD ₃₅	6.656	0.76	2 W
39392 4893 P-L	2.96	0.18	2 W	40282 1999 JD ₄₈	7.740	0.82	2 W
39405 Mosigkau	4.99	0.40	2 W	40284 1999 JE ₅₂			2 HNWW
39415 Janeausten		1.0	I	40287 1999 JS ₆₁			2 W
39420 Elizabethgaskell	105.	1.6	2- TOW	40314 1999 KR ₁₆	11.7	0.12-0.18	2
39431 5178 T-2	9.534	0.30	2 W	40319 1999 LR ₁₁	2.745	0.11	2 W
39489 1981 EU ₆	2.258	0.10	1 W	40321 1999 LA ₂₁	5.287	0.99	2 W
39492 1981 EO ₁₀	6.986	0.84	2 W	40326 1999 MA	6.481	>0.9	2
39494 1981 EM ₁₁	7.353	0.33	2 W	40329 1999 ML	47.0	0.40	2
39546 1992 DT ₅	1167.360	0.80	2 W	40331 1999 MS ₁	4.481	0.51-0.52	2 W
39552 1992 EY ₇	4.179	0.42	2 W	40359 1999 NT ₂₀	3.471	0.27	2 W
39556 1992 GF ₂	2.561	0.31	2 W	40360 1999 NE ₂₁	6.295	0.94	2 W
39560 1992 PM ₂	51.366	0.26	2 W	40366 1999 NF ₂₇	8.486	1.06	2 W
39566 Carllewis	6.220	0.09	1 W	40370 1999 NZ ₂₈	7.38	0.88	3- W
39572 1993 DQ ₁		0.29	N	40383 1999 NW ₄₇	8.182	0.07	1 W
39574 1993 FM ₅		0.97	W	40402 1999 NY ₆₄	9.443	0.52	2 W
39583 1993 FN ₂₃	18.973	0.49-0.50	2 W	40404 1999 OB	2.696	0.08	1 W
39588 1993 FZ ₃₇	3.39	0.17	2+ W	40408 1999 RO ₂	9.217	0.43	2 W
39589 1993 FL ₇₅	5.55	0.84	2+ W	40418 1999 RK ₁₉	16.903	0.10	1 W
39596 1993 QZ ₈	195.119	0.38	2 W	40429 1999 RL ₂₇	>24.	>0.1	1
39618 1994 LT	140.	0.85	2 T	40453 1999 RV ₃₈	17.442	0.51	2 W
39628 1994 PJ ₂₄	7.532	0.78	2 W	40456 1999 RV ₄₁	11.03	0.52	2 W
39636 1995 BQ ₂	6.623	0.52	2 W	40459 Rektorys	38.034	0.74	2 W
39655 Muneharuasada	3.481	0.22	2 W	40462 1999 RC ₄₄	8.643	0.36	2 W
39665 1995 WU ₆	4.418	0.22	3	40463 Frankkameny	56.555	0.51	2 W
39672 1996 BF ₁			HNWW	40468 1999 RF ₄₆	11.118	0.89	2 W
39687 1996 RL ₃	402.470	0.10	1 W	40478 1999 RT ₅₄	3.88673		2 p Ns

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Planet	Period	Variation	Note	Planet	Period	Variation	Note
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	41488* <i>Sindbad</i>	8.044	0.28	3
40573 1999 <i>RE</i> ₁₃₀	4.318	0.28	2 W	41503 2000 <i>QG</i> ₁₄₈	42.81	1.00	2+
40574 1999 <i>RO</i> ₁₃₀	5.346	0.48	2 W	41510 2000 <i>QU</i> ₁₇₁	>24.		TO N
40576 1999 <i>RM</i> ₁₃₃	22.679	0.33	2 W	41515 2000 <i>QL</i> ₁₈₁	8.291	0.43	2 W
40582 1999 <i>RC</i> ₁₃₇	4.16	0.86	2+ W	41531 2000 <i>RO</i> ₉	5.540	0.73-1.07	2 W
40623 1999 <i>RO</i> ₁₇₀	4.022	0.32	2 W	41532 2000 <i>RN</i> ₉	5.856	0.24-0.31	2 W
40625 1999 <i>RJ</i> ₁₇₂	3.336	0.19	2 W	41545 2000 <i>RA</i> ₄₃	6.283	0.58	3
40651 1999 <i>RJ</i> ₁₈₉	10.829	0.44	2 W	41554 2000 <i>RH</i> ₅₃	4.710	0.57	2 W
40652 1999 <i>RP</i> ₁₈₉			W	41556 2000 <i>RC</i> ₅₄	3.368	0.33	2 W
40654 1999 <i>RH</i> ₁₉₁	6.62	0.77	2 W	41561* 2000 <i>RQ</i> ₆₆	7.05	0.15	2
40656 1999 <i>RY</i> ₁₉₁	14.931	0.42	2 W	41577 2000 <i>SV</i> ₂	34.59	0.37	2
40664 1999 <i>RF</i> ₁₉₆	9.61	0.38	2	41588 2000 <i>SC</i> ₄₆	5.8325	0.40-0.43	3
40682 1999 <i>RM</i> ₂₁₁	3.300	0.26	2 W	41609 2000 <i>SR</i> ₁₁₇	259.855	0.07	1
40683 1999 <i>RB</i> ₂₁₃	2.545	0.12	2 W	41614 2000 <i>SX</i> ₁₄₅	5.032	0.60	2 W
40701 1999 <i>RG</i> ₂₃₅	3.63	1.2	3-	41639 2000 <i>SD</i> ₂₂₇	7.087	0.59	2 W
40709 1999 <i>RW</i> ₂₄₂	14.536	0.34	2 W	41652 2000 <i>SA</i> ₂₉₄	14.532	0.48	2 W
40716 1999 <i>SL</i>	11.704	0.23	2 W	41653 2000 <i>SC</i> ₂₉₄	2.007	0.08	1 W
40717 1999 <i>SC</i> ₂	3.436	0.22	2 W	41660 2000 <i>SV</i> ₃₆₂	77.2	0.65	2+
40776 <i>Yeungkwongyu</i>	3.098	0.40	2 W	41672 2000 <i>TX</i> ₃₆	31.8	0.06	1
40779 1999 <i>TY</i> ₂₅	16.178	0.33	2 W	41689 2000 <i>UN</i> ₁₈			HNW
40791 1999 <i>TO</i> ₃₃	3.133	0.15	1 W	41699 2000 <i>UT</i> ₄₆	4.601	0.28	2 W
40797 1999 <i>TM</i> ₃₇	8.722	0.25	2 W	41714 2000 <i>UO</i> ₇₂	9.415	0.77	2 W
40806 1999 <i>TX</i> ₄₁	6.41500		p Ns	41716 2000 <i>UP</i> ₇₆	10.00	0.26	2-
40855 1999 <i>TG</i> ₁₀₈	11.783	0.24	2 W	41730 2000 <i>UF</i> ₉₆	18.224	0.61	2 W
40876 1999 <i>TH</i> ₁₂₃	4.710	0.35	2 W	41736 2000 <i>UN</i> ₁₀₂	3.823	0.15	2 W
40880 1999 <i>TA</i> ₁₂₅	9.32	0.50	2 W	41778 2000 <i>VB</i> ₅₀	8.553	0.46	2 W
40890 1999 <i>TE</i> ₁₃₃	5.229	0.28	2 W	41789 2000 <i>VW</i> ₆₀	8.932	0.91	2 W
40891 1999 <i>TH</i> ₁₃₆	2.916	0.23-0.25	2 W	41793 2000 <i>WW</i> ₆	2.94	0.27	2 W
40893 1999 <i>TL</i> ₁₃₈	112.954	0.35	2 W	41797 2000 <i>WN</i> ₁₈	10.144	0.39	2 W
40901 1999 <i>TG</i> ₁₄₃	14.114	0.46	2 W	41811 2000 <i>WK</i> ₃₅	7.482	0.78	2 W
40903 1999 <i>TB</i> ₁₄₄	8.699	0.39	2 W	41814 2000 <i>WP</i> ₃₆	11.595	0.58	2 W
40921 1999 <i>TR</i> ₁₇₁	6.662	0.35	2+	41832 2000 <i>WB</i> ₅₈	12.361	0.61-0.73	2 W
40941 1999 <i>TS</i> ₂₁₁	5.319	0.26	2 W	41847 2000 <i>WK</i> ₈₆	8.229	0.14	2 W
40998 1999 <i>US</i> ₇	2.924	0.41	2 W	41852 2000 <i>WN</i> ₈₇	7.707	0.34	2 W
41005 1999 <i>UJ</i> ₁₃	5.55	0.99	3-	41867 2000 <i>WB</i> ₉₉	29.581	0.40	2 W
41006 1999 <i>UM</i> ₁₃	3.33	1.04	2 W	41869 2000 <i>WK</i> ₉₉	2.59	0.18	1+
41012 1999 <i>UD</i> ₁₇	6.334	0.28-0.29	2 W	41874 2000 <i>WY</i> ₁₀₀	5.890	0.40	2 W
41015 1999 <i>UB</i> ₂₄	24.565	0.25	2 W	41881 2000 <i>WH</i> ₁₀₉	3.24	0.25-0.28	2 W
41039 1999 <i>UX</i> ₅₆	246.770	0.82	2 W	41883 2000 <i>WF</i> ₁₁₁	3.621	0.08	1 W
41042 1999 <i>VB</i> ₂	20.384	0.88	2 W	41916 2000 <i>WT</i> ₁₅₂	9.630	0.42	2 W
41044 1999 <i>VW</i> ₆	2.734	0.21	3	41917 2000 <i>WC</i> ₁₅₃	412.631	0.09	1 W
41047 1999 <i>VP</i> ₇	7.848	0.62	2 W	41919 2000 <i>WW</i> ₁₅₆	10.964	0.30	2 W
41051 1999 <i>VR</i> ₁₀	4.04	0.55	2+	41953 2000 <i>XK</i> ₁₆	6.014	0.49	2 W
41070 1999 <i>VS</i> ₃₄	3.482	0.16	2 W	41964 2000 <i>XW</i> ₃₆	15.480	0.69	2 W
41076 1999 <i>VH</i> ₄₃	12.461	0.99	2 W	41966 2000 <i>XU</i> ₃₇	15.906	0.37	2 W
41079 1999 <i>VP</i> ₄₅	12.458	0.76	2 W	41967 2000 <i>XE</i> ₃₉		0.55	W
41080 1999 <i>VX</i> ₄₅	5.499	0.14	2 W	41971 2000 <i>YM</i> ₆	2.873	0.20	2 W
41106 1999 <i>VL</i> ₆₉	7.867	0.22	2 W	41976 2000 <i>YA</i> ₁₅	4.077	0.09	1 W
41185 1999 <i>VJ</i> ₂₀₀	4.97	0.39	1+	42002 2000 <i>YJ</i> ₄₇	11.71	0.87	2-
41204 1999 <i>WX</i> ₈	38.227	0.55	2 W	42004 2000 <i>YU</i> ₄₉	2.52	0.20	1
41210 1999 <i>WN</i> ₁₈	2.232	0.07	1 W	42024 2000 <i>YX</i> ₈₂	7.242	0.51	2 W
41223 1999 <i>XD</i> ₁₆	32.52	0.48	3-	42044 2000 <i>YF</i> ₁₀₂	12.944	0.19	2 W
41247 1999 <i>XQ</i> ₃₉	3.757	0.54	2 W	42048 2000 <i>YE</i> ₁₀₇	7.146	0.60	2 W
41249 1999 <i>XJ</i> ₄₀	11.093	0.32-0.36	2 W	42061 2000 <i>YE</i> ₁₁₆	6.07	0.75	2 W
41250 1999 <i>XA</i> ₄₁	8.641	0.90	2 W	42075 2001 <i>AL</i> ₃	6.76	0.43	3-
41276 1999 <i>XG</i> ₈₃	5.12	0.84	2 W	42114 2001 <i>BH</i> ₄	10.94	0.28	2
41288 1999 <i>XD</i> ₁₀₇	4.36	0.36	3-	42127 2001 <i>BT</i> ₁₅	17.043	0.41	2 W
41290 1999 <i>XB</i> ₁₀₈	7.365	0.39	2 W	42130 2001 <i>BW</i> ₁₉	8.795	0.54	2 W
41308 1999 <i>XA</i> ₁₅₄	5.040	0.16	2 W	42151 2001 <i>BD</i> ₅₄	8.794	0.10	1 W
41313 1999 <i>XD</i> ₁₆₈	16.414	0.49	2 W	42158 2001 <i>BT</i> ₇₀	13.655	0.43	2 W
41327 1999 <i>XD</i> ₂₁₇	5.104	0.37	2+	42179 2001 <i>CP</i> ₂₅	7.577	0.53	2 W
41347 2000 <i>AR</i> ₂₂	8.224	0.64	2 W	42189 2001 <i>CJ</i> ₃₃	28.166	0.69	2 W
41358 2000 <i>AJ</i> ₅₄	4.891	0.81	2 W	42195 2001 <i>DO</i> ₁₇	268.752	0.92	2 W
41362 2000 <i>AJ</i> ₈₁	3.931	0.67	2 W	42218 2001 <i>DN</i> ₅₉	32.263	0.34	2 W
41369 2000 <i>AG</i> ₁₀₀	6.124	0.54	2 W	42244 2001 <i>FH</i> ₆₅	3.71	0.20	2 W
41371 2000 <i>AB</i> ₁₀₁	13.847	0.55-0.62	2 W	42247 2001 <i>FU</i> ₁₅₆	3.304	0.33-0.46	2 W
41375 2000 <i>AD</i> ₁₀₂	5.181	0.50	2 W	42256 2001 <i>OA</i> ₆₃	5.181	0.20	2 W
41393 2000 <i>AV</i> ₁₅₁	5.30	0.09	2-	42259 2001 <i>OD</i> ₈₁	4.826	0.31-0.32	2 W
41396 2000 <i>AG</i> ₁₇₅	2.779	0.22-0.23	2 W	42262 2001 <i>PE</i> ₆	6.269	0.79	2 W
41397 2000 <i>AS</i> ₁₇₅	6.507	0.31	2 W	42264 2001 <i>QZ</i> ₃₀	9.77	0.99-1.20	2

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Planet	Period	Variation	Note	Planet	Period	Variation	Note
42265 2001 QL ₆₉	8.6	0.85	2	43181 1999 XY ₂₀₆	17.059	0.82	2 W
42267 2001 QJ ₈₁	3.1520	0.15	3	43183 1999 XK ₂₁₃	3.28	0.46	2-
42271 Keikokubota	18.289	0.43	2 W	43198 2000 AD ₆₂	10.413	0.30	2 W
42282 2001 SB ₂₈₃	109.731	0.83	2 W	43203 2000 AV ₇₀	14.83	0.60	2
42286 2001 TN ₄₁	77.9	0.44	2+ T-	43204 2000 AA ₇₁	4.032	0.81	2 W
42297 2001 UL ₇₃		0.76	W	43239* 2000 AK ₂₃₈	15.825	0.34	2+
42301 2001 UR ₁₆₃		<0.08		43248 2000 BD ₂₆	73.152	0.49	2 W
42306 2001 VU ₄₆	2.3651	0.20	NA	43259 Wangzhenyi	2.9362	0.23-0.26	3
42307 2001 VC ₄₈	6.11	0.13	2 W	43269 2000 DO ₉₈	3.29	0.26	2 W
42314 2001 VQ ₁₂₁	9.4	1.	1+	43274 2000 ER ₅₆	5.25	0.69	3 W
42355 Typhon	>5.	>0.15	2- B	43286 2000 EA ₁₅₈	2.077	0.09	1 W
42367 2002 CQ ₁₃₄	47.74	0.71	2	43291 2000 FY ₄₈	89.417	0.48	2 W
42379 2013 P-L	5.33	0.69-0.82	2 W	43299 2000 GD ₇₃	7.11	0.51	1 W
42454 4134 T-3	8.723	0.42	2 W	43321 2000 JR ₅₂	4.75	1.02	2- W
42467 1978 VX ₆	15.417	0.36	2 W	43325 2000 KY ₅₀	2.738	0.05	1 W
42474 1981 EJ ₂₇	13.62	0.70	1 DAW	43331 2000 PS ₆	7.338	0.53	3
42490 1991 SU	7.953	0.54-0.78	2 W	43339 2000 RM ₁₀	52.	0.23	2-
42496 1991 XB ₁	4.612	0.19	2 W	43359 2000 UF ₄₁	5.697	0.70	2 W
42500 1992 RV ₆	110.197	0.63	2 W	43423 2000 XQ ₄₁	61.501	0.56	2 W
42511 1993 FD ₇₇	4.39	0.35-0.43	2 W	43426 2000 YD ₆	12.00	0.53	1 DAW
42516 Oistrach	2.611	0.18	2 W	43463 2001 AN ₅	9.697	0.61	2 W
42526 1994 PA ₃₆	10.420	0.25-0.28	2 W	43464 2001 AA ₉	101.649	0.75	2 W
42535 1995 VN ₉	2.37	0.1	1+	43471 2001 AH ₃₂	5.85	0.72	3- W
42549 1996 HJ ₁₇	4.453	0.72	2 W	43472 2001 AH ₃₃	3.621	0.39	2 W
42573 1997 AN ₁	3.887	0.55	2 W	43481 2001 BC ₁₇	14.496	0.16	2 W
42600 1997 YF ₁₀	7.7712	0.70-0.90	3 A	43483 2001 BO ₃₈	4.503	0.58	2 W
42604 1998 BT ₁₅	3.420	0.19	2 W	43492 2001 CV	5.08	0.84	2+ W
42612 1998 EL ₃	9.0	0.32	2-	43498 2001 CT ₁₉	4.446	0.10	1 W
42623 1998 FT ₂₇	5.581	0.38	2 W	43526 2001 DD ₃₇	8.017	0.58-0.93	2 W
42642 1998 FQ ₆₆	3.647	0.18	2 W	43537 2001 EF ₂	3.76	0.26	1+ W
42644 1998 FE ₆₇	>16.	>0.3	2-	43542 2001 EC ₂₇	3.021	0.15-0.17	2 W
42653 1998 FE ₈₈	5.495	0.81-0.88	2 W	43583 2001 KR ₅₉	3.0079	0.86	3
42655 1998 FU ₁₀₈	5.168	0.64	2 W	43595 2001 QT ₁₀₁	22.049	0.65	2
42662 1998 FQ ₁₃₃	2.628	0.15	2 W	43606 2001 XQ ₂	87.	1.3	2- T?
42695 1998 KM ₅₄	16.058	0.57	2 W	43607 2001 XO ₄₈	4.924	0.65	2 W
42700 1998 MO ₁₀	7.381	0.40	2 W	43619 2002 CR ₆₆	3.31	0.33	1+ W
42741 1998 RW ₆₅	5.05	0.49	3 W	43645 2002 EM ₇₃	2.657	0.22	2 W
42811* 1999 JN ₆₁	3.902	0.14-0.18	3	43656 2002 ER ₁₀₄	3.221	0.42	2 W
42835 1999 NS ₅₆	2.49	0.17	2+	43662* 2002 FP ₈	4.5	0.67	2
42843* 1999 RV ₁₁	894.	1.32	2 T	43677 2002 JN	48.736	0.69	2 W
42849 Podjavorinska	6.123	0.34	2 W	43689 2002 JY ₇₁	7.547	0.61	2 W
42866 1999 RJ ₁₀₄	42.227	0.11	2 W	43692 2160 P-L	3.46	0.16	2
42870 1999 RM ₁₂₀	4.30	0.43-0.52	3- W	43695 4079 P-L	4.511	0.59	2 W
42891 1999 RH ₁₆₉	5.154	0.32	2 W	43712 5054 T-2	62.824	0.35	2 W
42904 1999 RV ₂₀₂	4.64	0.76-0.85	2 W	43751 Asam	5.819	0.76	2 W
42909 1999 RH ₂₁₈	5.49	0.81	3- W	43759 1986 QW ₂	68.154	0.10	1 W
42915 1999 RD ₂₃₂	5.504	0.64	2 W	43773 1989 AJ	7.553	0.07	1 W
42917 1999 SU ₁	13.731	0.55	2 W	43800 1991 PP ₁₃	6.51	0.36-0.40	3 W
42918 1999 SK ₄	4.393	0.23	2 W	43807 1991 RC ₁₁	337.813	0.18	2 W
42920 1999 SA ₈	4.903	0.19	2 W	43821 1992 RL ₃	7.406	0.86	2 W
42923 1999 SR ₁₈	8.392	1.20	3 p	43867 1994 PQ ₂₈	5.434	0.64	2 W
42929 Francini	3.530	0.10	1 W	43895 1995 UC ₄	4.847	0.46	2 W
42930 1999 TM ₁₁	3.573	0.28	2 W	43904 1995 WO	200.	0.05-0.34	2-
42939 1999 TJ ₃₁	4.97	0.27	2 W	43922 1996 CE ₅	7.090	0.56	2 W
42946 1999 TU ₉₅	3.42	0.30	3-	43934 1996 TC	3.60	0.23-0.24	2 W
42950 1999 TF ₁₀₁	7.672	0.76	2 W	43941 1996 YP	5.374	0.67	2 W
42953 1999 TK ₁₀₉	2.67	0.12	2 W	43944 1997 AW ₁	4.467	0.10	1 W
42970 1999 TD ₁₇₄	18.46	0.72	2 W	43963 1997 EW ₁₄	6.832	0.29-0.30	2 W
42978 1999 TL ₂₁₉	5.118	0.33-0.34	2 W	43991 1997 MF ₁₀	4.155	0.46	2 W
42979 1999 TR ₂₂₀	3.498	0.38-0.56	2 W	44002 1997 ST ₁	12.775	0.46	2 W
42985 1999 TR ₂₃₀	70.571	0.44	2 W	44006 1997 TF ₁₇	2.345	0.19-0.21	2 W
42992* 1999 TH ₂₆₀	>36.	>0.7	W	44016 Jimmypage	31.4	0.44	2
42993 1999 TP ₂₇₀	3.818	0.34-0.49	2 W	44028 1998 BD ₁	3.527	0.64	2 W
43003 1999 UC ₁₄	5.459	0.12	2 W	44040 1998 DA ₃₅	3.994	0.24	2 W
43005 1999 UA ₁₇	6.744	0.29	2 W	44060 1998 FU ₄₂		0.06	
43029 1999 VT ₂₄	6.279	0.61	2 W	44077 1998 FW ₆₉	3.973	0.16	2 W
43032 1999 VR ₂₆	32.890	0.51-0.60	2 W	44080 1998 FQ ₇₁	9.692	0.78	2 W
43043 1999 VN ₄₉	6.532	0.53	2 W	44091* 1998 FB ₁₀₆	5.20	0.28	2
43052 1999 VJ ₇₁	146.914	0.53	2 W	44139 1998 HZ ₉₂			HNW
43064 1999 VK ₁₁₄	8.856	0.6	1	44142 1998 HU ₉₆	10.7918	1.17	3-
43076 1999 VW ₁₈₉	7.851	0.30	2 W	44217 Whittle	9.7	0.58	2
43098 1999 XD ₁₄	5.342	0.52	2 W	44295 1998 QU ₈₉	6.62	0.84	2+ W
43101 1999 XX ₁₈	3.974	0.46	2 W	44376 1998 SJ ₄₈			HNW
43142 1999 XQ ₉₃	4.073	0.19	2 W	44400 1998 ST ₉₇	10.522	0.69-0.89	2 W
43152 1999 XM ₁₁₅	11.996	0.94	2 W	44406 1998 SU ₁₂₇	57.930	0.54	2 W
43157 1999 XT ₁₂₀	9.869	0.55	2 W	44417 1998 SS ₁₄₆	7.632	0.80	2 p W
43162 1999 XE ₁₂₆	161.003	0.64	2 W	44440 1998 UM ₁₅	2.965	0.27	2 W
43163 1999 XB ₁₂₇	5.20660		p Ns	44443 1998 UY ₁₉		0.05	N
43166 1999 XO ₁₅₆	51.997	1.06	2 W	44473 Randyatum	5.165	0.18	2 W
43174 1999 XF ₁₈₀	>16.		N	44503 1998 XR ₂₇	3.107	0.25	2 W

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Planet	Period	Variation	Note	Planet	Period	Variation	Note
44506 1998 XS ₃₉	3.258	0.19	2 W	45209 1999 XT ₁₇₈	11.9	0.19	2-
44510 1998 XB ₅₁	2.33	0.19	2- W	45215 1999 XB ₁₈₃	8.621	0.62	3
44518 1998 XQ ₈₆	3.590	0.17	2 W	45223 1999 XF ₂₀₀	4.903	0.24	2 W
44530 1998 Horáková	160.	2.68	1	45250 1999 YJ	10.273	0.43	2 W
44532 1998 YA ₉	2.749	0.29	2 W	45259 2000 AF ₁	11.7	0.79-0.85	2+ AW
44533 1998 YN ₉	3.365	0.39	2 W	45263 2000 AD ₅	14.18	0.60	2+
44534 1998 YZ ₉	45.0	0.75	2 ADTOW	45270 2000 AT ₈	7.851	0.84	2 W
44544 1999 AO ₂₃	85.095	0.71	2 W	45276 2000 AO ₁₂	3.744	0.53-0.57	2 W
44569 1999 CG ₁₃₃	5.514	0.54	2 W	45289 2000 AY ₂₉	93.483	0.77	2 W
44578 1999 GL ₂₅	3.760	0.32-0.34	2 W	45297 2000 AN ₃₈			HNW
44579 1999 GR ₂₅	4.60	0.67-0.87	3- W	45302 2000 AX ₄₆	9.911	0.28	2 W
44581 1999 GB ₄₀	4.73	0.75	3- W	45303 2000 AP ₄₇	8.389	0.25	2 W
44584 1999 JO ₂₁			W	45308 2000 AR ₅₃			HNW
44594 1999 OX ₃	9.26	0.11	2 1A	45320 2000 AT ₆₃	11.111	0.78	2 W
44598 1999 PL ₆	3.500	0.27	2 W	45337 2000 AK ₈₃	7.686	0.55	2 W
44600 1999 RU ₁₀	6.211	0.81-1.09	3 p	45340 2000 AG ₈₆	4.421	0.60	2 W
44612 1999 RP ₂₇	4.9070	0.43-0.49	3 p	45349 2000 AP ₉₃	6.44	0.13	2 W
44610* 1999 RO ₄₂	>1.0	>0.27		45358 2000 AM ₁₀₂	13.218	0.62	2 W
44627 1999 RN ₇₁	6.36	0.90	2 W	45392 2000 AR ₁₂₉	13.754	0.38	2 W
44628 1999 RQ ₇₅	2.712	0.07	1 W	45408 2000 AO ₁₄₂	5.385	0.28	2 W
44644 1999 RY ₁₁₄	9.527	0.63-0.73	2 W	45436 2000 AD ₁₇₆	18.47	1.15	2
44647 1999 RA ₁₂₉	5.964	0.66	2 W	45440 2000 AQ ₁₇₇	6.539	0.20-0.30	2 W
44665 1999 RF ₁₇₄	10.154	0.50	2 W	45455 2000 AB ₁₉₅	4.90	0.18	2- W
44673 1999 RE ₁₈₅	6.033	0.74	2 W	45465 2000 AN ₂₀₀	7.2	0.87	1
44681 1999 RZ ₁₉₅	17.337	0.20	2 W	45510 2000 BB ₂₃	27.461	0.62	2 W
44683 1999 RR ₁₉₇	103.785	0.72	2 W	45526 2000 CG ₄	77.932	0.79	2 W
44686 1999 RN ₂₀₀	75.433	0.33	2 W	45543 2000 CQ ₃₆	7.549	0.68	2 W
44694 1999 RT ₂₃₄	2.87	0.28	2 W	45553 2000 CO ₄₈	3.516	0.54	2 W
44742 1999 TK ₄₀	4.477	0.49	2 W	45560 2000 CW ₅₃	2.784	0.05	1 W
44760 1999 TJ ₁₁₄	26.6	0.1	1 W	45566* 2000 CK ₅₈	4.704	0.42-0.47	2+
44763 1999 TM ₁₁₆	7.915	0.86	2 W	45571 2000 CZ ₆₄	8.726	0.17	2 W
44767 1999 TK ₁₂₄	2.880	0.21-0.22	2 W	45576 2000 CD ₇₅	10.248	0.48-0.50	2 W
44801 1999 TD ₂₀₀	6.19	0.63	2 W	45601 2000 DE ₅	3.38	0.23-0.32	3- W
44813 1999 TV ₂₂₂	6.655	0.57	2 W	45603 2000 DC ₁₈	3.61	0.28	1+ W
44827 1999 TN ₂₄₇	20.565	0.74	2 W	45610 2000 DJ ₄₈		0.52	W
44834 1999 TE ₂₅₆	5.479	0.63-0.89	2 W	45628 2000 DD ₉₉	3.48	0.31-0.39	2 W
44858 1999 UZ ₁₃	2.044	0.09	1 W	45636 2000 EG ₁₂	3.710	0.58	2 W
44862 1999 UM ₁₅	>8.	>0.1	1-	45646 2000 EE ₄₅	5.26	0.41	2- A
44864 1999 UJ ₂₃	9.121	0.51	2 W	45659 2000 EL ₈₄	3.848	0.33	2 W
44872 1999 UA ₄₁	5.068	0.36	2 W	45660 2000 EU ₈₄	7.198	0.65	2 W
44873 1999 UF ₄₁	2.728	0.21-0.24	2 W	45661 2000 EX ₈₄	2.615	0.20	3-
44874 1999 UY ₄₄	8.262	0.57	2 W	45667 2000 EG ₉₃	18.260	0.18	2 W
44881 1999 UJ ₅₁	20.00	2.07	1 DAW	45671 2000 EA ₁₀₄	5.417	0.24	2 W
44886 1999 VF ₁	5.831	0.10	1 W	45672 2000 EE ₁₀₉	240.336	0.59	2 W
44887 1999 VF ₅	4.664	0.38	2 W	45686 2000 EM ₁₃₉	7.507	0.59	2 W
44892 1999 VJ ₈	5.872	0.29	3	45705 2000 FD ₃₁	11.092	0.52	2 W
44914 1999 VN ₂₇	42.397	0.86	2 W	45721 2000 GZ ₄₂	6.00	0.64-0.71	2 W
44915 1999 VR ₂₇	15.961	0.59	2 W	45733 2000 GV ₁₃₉	12.318	0.27	2 W
44938 1999 VV ₅₀	3.960	0.61-0.68	2 W	45752 2000 JY ₇₀	361.985	0.48	2 W
44946 1999 VU ₆₁	4.38	0.39	2- W	45766 2000 LX ₅	38.224	0.49	2 W
44954 1999 VN ₇₂	5.696	0.71	2 W	45771 2000 NE ₅	8.069	0.84	2 W
44957 1999 VG ₇₈	5.828	0.47	2 W	45776 2000 NZ ₂₈	14.90	0.12	1 W
44959 1999 VL ₈₂			HNW	45810 2000 QP ₃₂	2.1	0.16	N
44962 1999 VL ₈₇	56.236	0.55	2 W	45837 2000 RD ₂₇	32.00	0.79	2 W
44984 1999 VC ₁₆₄	9.296	0.49	2 W	45862 2000 UQ ₅₁		1.0	I
44997 1999 VX ₁₈₄	3.34	0.38	2 W	45864 2000 UO ₉₇	S 5.13544		p Ns
45008 1999 VN ₂₀₁	4.4		N	45876 2000 WD ₂₇	3.87	0.11-0.12	2 W
45016 1999 WV ₂	2.87	0.15-0.16	2 W	45878 2000 WX ₂₉	3.9207	0.05-0.10	3 B?
45041 1999 XE ₁₀	4.66	0.31-0.57	3 W	45898 2000 XQ ₄₉	5.417	0.88-1.14	3
45042 1999 XW ₁₀	8.450	0.70	2 W	45904 2000 YV ₂₉		0.64	W
45052 1999 XX ₂₃	2.721	0.13	2 W	45908 2000 YE ₅₁	54.151	0.55	2 W
45053 1999 XK ₂₆	3.13	0.35	2 W	45921 2000 YU ₁₀₄	3.307	0.37	2 W
45058 1999 XR ₂₉	6.549	0.34-0.38	2 W	45924 2000 YZ ₁₀₈	4.984	0.89	2 W
45068 1999 XA ₃₄	5.043	0.31	2 W	45927 2000 YR ₁₁₃	21.553	0.57-0.58	2 W
45073 Doyanrose	3.16	0.15-0.16	3- W	45929 2000 YP ₁₁₆	6.77	1.28	3- W
45084 1999 XG ₄₅	4.32	0.78	2 W	45945 2001 AM ₁₇	39.543	0.24	2 W
45086* 1999 XE ₄₆	4.97	0.41	2+ W	45956 2001 AG ₄₁	4.606	0.22	2 W
45092 1999 XD ₅₀	3.180	0.08	1 W	45978 2001 BY ₄₄	3.808	0.19	2 W
45102 1999 XN ₆₉	5.369	0.28	2 W	45986 2001 BC ₆₆	5.85	0.21	2- W
45109 1999 XZ ₇₆	174.893	0.60	2 W	45991 2001 BQ ₇₀	2.88	0.13	1
45115 1999 XN ₈₂	4.7178	0.20	3 W	46001 2001 CG ₁	11.16	0.27	1 DAW
45123 1999 XH ₈₈	5.330	0.80	2 W	46033 2001 DG ₃₁	3.582	0.65	2 W
45130 1999 XQ ₉₁	5.324	0.76	2 W	46037 2001 DF ₃₃	2.6865	0.23	3 B?
45136 1999 XO ₉₄	15.562	0.39	2 W	46053 Davidpatterson	5.0	0.4	2
45160 1999 XS ₁₂₃	4.104	0.65-0.71	2 W	46075 2001 EK ₃	9.585	0.54	2 W
45161 1999 XX ₁₂₃	9.034	0.85	2 W	46096 2001 FB	7.805	0.31	2 W
45176 1999 XQ ₁₄₀	3.44	0.20	2+ W	46101 2001 FK ₈	6.44	0.54	3 W
45179 1999 XQ ₁₄₄	7.203	0.50	2 W	46108 2001 FW ₁₈	3.06	0.20	2 W
45184 1999 XL ₁₅₅	28.617	0.27	2 W	46125 2001 FB ₄₃	20.563	0.65	2 W
45207 1999 XH ₁₇₅	8.538	0.28	2 W	46145 2001 FC ₆₃	56.662	0.09	1 W

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Planet	Period	Variation	Note	Planet	Period	Variation	Note
46165 2001 <i>FF</i> ₈₀	11.03	0.20	2 W	46977* Krakow	8.44	0.26	3-
46169 2001 <i>FY</i> ₈₇	4.588	0.52-0.75	2 W	46983 1998 <i>SX</i> ₁₆₁	83.619	0.93	2 W
46186 2001 <i>FS</i> ₁₂₄	3.004	0.63	2 W	46989 1998 <i>TO</i> ₅	9.0420	0.75	3
46234 2001 <i>HK</i> ₉	5.870	0.49-0.51	2 W	47017 1998 <i>VE</i> ₄	3.258	0.49	2 W
46242 2001 <i>HQ</i> ₁₂	20.86	0.45	1 DAW	47026 1998 <i>VS</i> ₂₁	5.12	0.26	1+
46244 2001 <i>HU</i> ₁₅	5.013	0.43	2 W	47035 1998 <i>WS</i>	3.99	0.10-0.15	2 p
46251 2001 <i>HO</i> ₃₁	14.542	0.55	2 W	47043 1998 <i>WX</i> ₃	4.676	0.76	2 W
46261 2001 <i>HA</i> ₄₇	4.774	0.50	2 W	47049 1998 <i>WT</i> ₁₉	5.255	0.31	2 W
46264 2001 <i>HB</i> ₅₀	2.542	0.38	2 W	47069 1998 <i>XC</i> ₇₃	784.520	0.38	2 W
46274 2001 <i>JU</i> ₃	10.798	0.26	2 W	47073 1998 <i>XP</i> ₉₅	4.656	0.59	2 W
46304 2001 <i>OZ</i> ₆₂	2.655	0.10	2 W	47081 1998 <i>YV</i> ₉	7.46	0.20	2+
46325 2001 <i>QZ</i> ₁₃₀	9.484	0.69	2 W	47082 1998 <i>YA</i> ₁₅	2.961	0.38	2 W
46339 2001 <i>RU</i> ₈₁	4.180	0.60	2 W	47095 1999 <i>AQ</i> ₂₅	0.36	0.04	1-
46342 2001 <i>SC</i> ₅₃	7.01	0.41	2 W	47115 1999 <i>CH</i> ₆₂	11.556	0.22	2 W
46352 2001 <i>SZ</i> ₂₆₆	2.940	0.36-0.42	2 W	47116 1999 <i>CL</i> ₆₄	19.712	0.55	2 W
46361 2001 <i>TR</i> ₁₀₅	7.387	0.13	2 W	47119 1999 <i>CM</i> ₈₁	43.147	0.56	2 W
46376 2001 <i>XD</i> ₃	5.73569		2 p Ns	47127 1999 <i>CJ</i> ₁₀₃	4.370	0.64-0.71	2 W
46436 2002 <i>LH</i> ₅	3.884	0.46-0.62	3	47141 1999 <i>HB</i> ₃	2.8614	0.14	3 B?
46438 2002 <i>LZ</i> ₇			HNW	47143 1999 <i>LL</i> ₃₁	3.32	0.28-0.36	3-
46441 Mikepenston	11.783	0.42	2 W	47149 1999 <i>RX</i> ₃₄	9.50	0.50-0.55	3-
46451 3050 <i>P-L</i>	6.462	0.49	2 W	47154 1999 <i>RE</i> ₁₄₁	5.20	0.55-0.56	2 W
46452 3097 <i>P-L</i>	20.447	0.56-0.63	2 W	47170* 1999 <i>TE</i> ₃₃	>16.	>0.4	2-
46455 4054 <i>P-L</i>	89.899	0.62	2 W	47171 Lempo	6.21	0.06	1 B
46456 4140 <i>P-L</i>	5.197	0.63	2 W	47195 1999 <i>TG</i> ₁₇₉	2.68	0.11-0.11	2 W
46475 3204 <i>T-1</i>	3.327	0.04	1 W	47219 1999 <i>UU</i> ₄₁	10.553	0.19	2 W
46485 2279 <i>T-2</i>	6.932	0.40-0.45	2 W	47229 1999 <i>VT</i> ₂₇	47.168	0.52	2 W
46506 3387 <i>T-3</i>	9.32	0.76	2 W	47270 1999 <i>VE</i> ₁₃₈	4.061	0.59	2 W
46530 1981 <i>EE</i> ₁₀	5.1	0.3	1+	47271 1999 <i>VY</i> ₁₄₃	6.902	0.56	2 W
46537 1981 <i>EV</i> ₄₅	5.85	0.89	3-	47320 1999 <i>XA</i> ₁₅	6.340	0.42	2 W
46538 1981 <i>UC</i> ₂₆	3.74	0.12	2-	47324 1999 <i>XN</i> ₂₂	5.201	0.54	2 W
46539 Viktortikhonov	16.743	0.45	2 W	47330 1999 <i>XQ</i> ₃₁	178.065	0.80	2 W
46558 1991 <i>GY</i> ₅	6.333	0.47	2 W	47332 1999 <i>XC</i> ₃₂	3.992	0.35	2 W
46559 1991 <i>PC</i> ₁	5.168	0.56-0.64	3	47334 1999 <i>XX</i> ₃₂	11.214	0.12	2 W
46566 1991 <i>RW</i> ₂₁	2.074	0.06	1 W	47335 1999 <i>XB</i> ₃₃	4.798	0.79	2 W
46583 1992 <i>RW</i> ₃	8.519	0.27	2 W	47340 1999 <i>XK</i> ₃₉	40.00	0.79	2 W
46585 1992 <i>RD</i> ₇	8.46	0.96	1 DAW	47365 1999 <i>XY</i> ₈₂	6.208	0.27	2 W
46587 1992 <i>UJ</i> ₁	45.189	0.82	2 W	47369 1999 <i>XA</i> ₈₈	2.55	0.19	2 W
46598 1993 <i>FT</i> ₂	4.8620	0.33	3	47373 1999 <i>XT</i> ₉₁	2.111	0.10	1 W
46616 1994 <i>AM</i>	10.524	0.71	2 W	47386 1999 <i>XX</i> ₁₀₁	8.433	0.12-0.14	2 W
46620 1994 <i>EL</i> ₁	>20.	>0.2	2 W	47392 1999 <i>XT</i> ₁₀₉	5.27	0.10	2 W
46622 1994 <i>EF</i> ₇	4.938	0.66	2 W	47406 1999 <i>XV</i> ₁₂₆	5.838	0.38	2 W
46623 1994 <i>GV</i> ₁₀	4.923	0.53	2 W	47417 1999 <i>XL</i> ₁₆₀	11.71	1.07	2-
46626 1994 <i>PL</i> ₂₃	5.485	0.64	2 W	47436 1999 <i>XM</i> ₁₇₆	3.843	0.18	2 W
46629 1994 <i>PS</i> ₃₈		1.35	I	47443 1999 <i>XE</i> ₁₉₆	2.416	0.06	1 W
46639 1995 <i>BN</i> ₄	6.214	0.49	3-	47463 1999 <i>XE</i> ₂₅₈	9.252	0.69	2 W
46643 Yanase	5.852	0.58	2 W	47473 2000 <i>AU</i> ₂	3.407	0.53	2 W
46654 1995 <i>UB</i> ₈	3.5491	0.26	3	47485 2000 <i>AO</i> ₂₂	2.892	0.40	2 W
46656 1995 <i>WT</i> ₆	12.31	0.17	2-	47488 2000 <i>AZ</i> ₃₂	3.358	0.11	2 W
46665 1996 <i>FD</i>	2.989	0.37	2 W	47496 2000 <i>AA</i> ₄₃	4.02	0.15	2 W
46672 1996 <i>OA</i>	3.55	0.27-0.32	2+	47506 2000 <i>AA</i> ₅₈	2.192	0.08	1 W
46685 1997 <i>AG</i> ₁₃	10.868	0.53	2 W	47508 2000 <i>AQ</i> ₅₈	5.05521		S
46690 1997 <i>AN</i> ₂₃	3.413	0.09	1 W	47517 2000 <i>AT</i> ₇₁	43.636	0.64	2 p
46714 1997 <i>HF</i> ₇		0.51	W	47526 2000 <i>AM</i> ₉₀	4.49	0.57	1+
46721 1997 <i>QW</i> ₃	8.28	0.91	1 W	47528 2000 <i>AE</i> ₉₅	6.44	1.42	2+
46725 1997 <i>SS</i> ₁₃	8.14	0.19	2-	47536 2000 <i>AB</i> ₁₀₂	8.868	0.49	2 W
46731 Prieurblanc	17.416	0.34	2 W	47540 2000 <i>AK</i> ₁₁₅	2.826	0.27	2 W
46748 1998 <i>DN</i> ₂₃	2.698	0.50	1+	47549 2000 <i>AE</i> ₁₂₆	4.578	0.25	2 W
46758 1998 <i>FQ</i> ₅₉	3.13	0.41-0.49	2 W	47574 2000 <i>AF</i> ₁₇₁	4.32475		S
46763 1998 <i>FE</i> ₇₉	4.537	0.06	1 W	47582 2000 <i>AO</i> ₁₇₉	12.402	0.26	2 p
46764 1998 <i>FE</i> ₉₅	7.906	0.64	2 W	47608 2000 <i>AE</i> ₂₄₃	9.128	0.38	2 W
46769 1998 <i>HJ</i> ₂	32.00	0.62	2 W	47614 2000 <i>BO</i> ₁₄	4.88	0.48	1 DAW
46784 1998 <i>HK</i> ₁₁₇	19.	0.27	2-	47644 2000 <i>CO</i> ₃₆	6.15	0.32	2 W
46791 1998 <i>HW</i> ₁₄₉	7.186	0.66	2 W	47651 2000 <i>CV</i> ₄₂	19.250	0.76	2 W
46800 1998 <i>KH</i> ₂₇	4.14	0.18-0.26	2 W	47662 2000 <i>CN</i> ₅₃	8.97	0.20	1+
46803 1998 <i>KL</i> ₃₃	>12.	>0.4	2-	47676 2000 <i>CE</i> ₇₁	3.787	0.44	2 W
46818 1998 <i>MZ</i> ₂₄	2.779	0.20-0.26	3	47678 2000 <i>CT</i> ₇₅	9.453	0.55	2 W
46829 McMahon	2.6236	0.12	NAB	47691 2000 <i>CT</i> ₉₂	3.87	0.47-0.54	2 W
46831 1998 <i>QH</i>	4.287	0.50	2 W	47700 2000 <i>CQ</i> ₁₂₁	2.51	0.19	1 W
46833 1998 <i>QB</i> ₈	13.834	0.07	1 W	47714 2000 <i>DS</i> ₂₄	10.	0.35	1 W
46840 1998 <i>QZ</i> ₁₇	2.095	0.09	1 W	47742 2000 <i>DX</i> ₇₃	7.74	0.49	2-
46861 1998 <i>QJ</i> ₇₃	7.285	0.74	2 W	47745 2000 <i>DE</i> ₇₇	3.28	0.25	1+
46868 1998 <i>QM</i> ₉₃	3.646	0.47	2 W	47780 2000 <i>EM</i> ₁₃	2.53	0.16	2 W
46869 1998 <i>QC</i> ₉₇	8.825	0.29	2 W	47798 2000 <i>EP</i> ₄₅	6.840	0.60	2 W
46875 1998 <i>QD</i> ₁₀₄	88.734	0.47	2 W	47815 2000 <i>EP</i> ₈₅	8.820	0.35	2 W
46884 1998 <i>RY</i> ₁₆	10.650	0.63	2 W	47819 2000 <i>EJ</i> ₉₁	5.08	0.44-0.51	3-
46899 1998 <i>RF</i> ₆₀	3.020	0.43	2 W	47823 2000 <i>EK</i> ₉₇	5.52	0.51	2 W
46935 1998 <i>SL</i> ₆₅	7.238	0.25	2 W	47840 2000 <i>EW</i> ₁₁₉	4.146	0.67	2 W
46945 1998 <i>SB</i> ₁₀₇	13.	0.19	1	47841 2000 <i>EO</i> ₁₂₁	2.887	0.46	2 W
46953 1998 <i>SB</i> ₁₂₁	4.0	0.25	2-	47856 2000 <i>EO</i> ₁₅₄	2.72	0.14	2 W
46968 1998 <i>SJ</i> ₁₃₅	5.856	0.26	2 W	47857 2000 <i>ET</i> ₁₅₅	7.658	0.73	2 W

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Planet	Period	Variation	Note	Planet	Period	Variation	Note
47858 2000 <i>EB</i> ₁₅₈	6.715	1.08	2 W	48707 1996 <i>KR</i> ₁	230.	0.65-0.75	3- TO
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	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
48286 2002 <i>GZ</i> ₉₆	11.431	0.65	2 W	49257 1998 <i>TJ</i> ₃₁	3.166	0.81	2 W
48290 2002 <i>JH</i>	5.581	0.60	2 W	49299 1998 <i>VU</i> ₅	43.555	0.22	2 W
48298 2002 <i>LL</i> ₃₃	6.71	0.52	2 W	49349 1998 <i>WV</i> ₆	12.161	0.39	2 W
48307 2002 <i>LP</i> ₅₃	3.79	0.34	2 W	49355 1998 <i>WH</i> ₁₂	3.623	0.26	2 W
48317 2002 <i>NY</i> ₂₀	7.11	0.26	2 W	49385 1998 <i>XA</i> ₁₂	2.5231	0.15-0.16	3
48322 2002 <i>NT</i> ₃₂	3.550	0.09	1 W	49389 1998 <i>XS</i> ₂₀	7.138	0.41	2 W
48336 2002 <i>PS</i> ₆	7.031	1.18	3	49395 1998 <i>XW</i> ₃₂	3.971	0.36	2 W
48349 4239 <i>P-L</i>	3.760	0.41	2 W	49406 1998 <i>XP</i> ₄₇	2.825	0.13	2 W
48353 6616 <i>P-L</i>	9.903	0.31-0.34	2 W	49411* 1998 <i>XT</i> ₅₁	5.408	0.27	2+ W
48362 2184 <i>T-2</i>	2.102	0.24	2 W	49418 1998 <i>XP</i> ₇₃	3.620	0.55	2 W
48376 4044 <i>T-3</i>	534.962	1.31	2 W	49423 1998 <i>XR</i> ₇₇	5.384	0.73	2 W
48406 1981 <i>EQ</i> ₄₇	78.294	0.90	2 W	49425 1998 <i>XE</i> ₈₀	7.274	0.78	2 W
48436 1989 <i>VK</i>	5.45	0.31	2 A	49431 1998 <i>XB</i> ₉₉	61.961	0.26	2 W
48438 1989 <i>WJ</i> ₂	17.672	0.39	2+ W	49432 1998 <i>YD</i>	30.909	0.32	2 W
48464 1991 <i>RA</i> ₁₇	17.419	0.10	1 W	49438 1998 <i>YD</i> ₄	7.44	0.35	2 W
48469 1991 <i>TQ</i> ₁	5.8182	0.95	3	49439 1998 <i>YC</i> ₅	31.283	0.48	2 W
48470 1991 <i>TC</i> ₂	10.504	0.09-0.19	2+ W	49446 1998 <i>YO</i> ₉	28.326	0.10	1 W
48476 1991 <i>UP</i> ₃	6.81	0.18	2 W	49447 1998 <i>YW</i> ₁₁	3.383	0.09	1 W
48478 1991 <i>VF</i> ₃	10.043	0.68	2 W	49482 1999 <i>BV</i> ₁₂	8.117	0.67-0.72	2 W
48485 1992 <i>EX</i> ₄	4.899	0.46	2 W	49504 1999 <i>CA</i> ₁₇	7.304	0.60	2 W
48517 1993 <i>FR</i> ₂₅	3.79	0.28	2 W	49507 1999 <i>CF</i> ₂₀	10.745	0.15	2 W
48520 1993 <i>FK</i> ₄₅	7.06	0.36	2+ W	49526 1999 <i>CP</i> ₄₀	4.073	0.46	2 W
48522 1993 <i>FF</i> ₅₄	13.206	0.30	2 W	49540 1999 <i>CU</i> ₆₃	7.190	0.20	2 W
48528 1993 <i>OC</i> ₃	3.707	0.55	2 W	49555 1999 <i>CK</i> ₈₈	5.090	0.40	2 W
48580 1994 <i>PD</i> ₁₇	7.06	0.60	2- W	49566 1999 <i>CM</i> ₁₀₆	>24.	>0.2	
48581 1994 <i>PV</i> ₁₉	3.173	0.18	2 W	49569 1999 <i>CH</i> ₁₀₉	4.641	0.29-0.35	2 W
48593 1994 <i>VF</i>	113.312	0.81	2 W	49570 1999 <i>CQ</i> ₁₁₀	3.874	0.55-0.71	2 W
48601 1995 <i>BL</i>	4.590	0.45-0.56	3	49574 1999 <i>CO</i> ₁₁₉	6.2	0.45-0.50	2+ W
48611 1995 <i>FS</i> ₆	4.581	0.50	2 W	49579 1999 <i>CL</i> ₁₂₄	10.79	0.34	2- W
48614 1995 <i>FP</i> ₁₄	4.779	0.47-0.51	2 W	49582 1999 <i>CB</i> ₁₂₈	5.342	0.88	2 W
48617 1995 <i>HR</i> ₂	4.058	0.34	2 W	49584 1999 <i>CE</i> ₁₃₃	4.82	0.19	1 W
48635 1995 <i>SU</i> ₅₂	28.106	0.77	2 W	49585 1999 <i>CO</i> ₁₃₇	4.10	0.43	2 W
48637 1995 <i>SU</i> ₈₇	5.546	0.32-0.35	2 W	49586 1999 <i>CD</i> ₁₃₈	144.	1.0	2- W
48639 1995 <i>TL</i> ₈			HNB	49589 1999 <i>CQ</i> ₁₄₉		0.69	W
48644 1995 <i>UG</i> ₇	8.28	0.14	2- W	49597 1999 <i>FY</i> ₁₂	6.368	0.67-0.73	2 W
48645 1995 <i>UF</i> ₈	3.110	0.23	2 W	49603 1999 <i>FC</i> ₂₅	5.152	0.13-0.15	2 W
48646 1995 <i>UL</i> ₈	11.383	0.24	2 W	49607 1999 <i>FC</i> ₂₈	42.133	0.61	2 W
48652 1995 <i>VB</i>	13.829	0.63	3	49616 1999 <i>FY</i> ₄₂	7.397	0.96	2 W
48660 1995 <i>WA</i> ₅	2.791	0.08-0.11	2 W	49617 1999 <i>FJ</i> ₄₃	15.823	0.63	2 W
48663 1995 <i>WY</i> ₇	6.23	0.38-0.44	2 W	49622 1999 <i>GO</i> ₃	5.513	0.35-0.41	2 W
48676 1996 <i>AW</i> ₆	5.730	0.37	2 W	49630 1999 <i>GB</i> ₂₁	78.94	0.46	2 W
48677 1996 <i>AQ</i> ₇	4.551	0.45	2 W	49636 1999 <i>HJ</i> ₁	2.821	0.26-0.29	2 W
48682 1996 <i>BP</i> ₁	4.8	0.13	1	49642 1999 <i>JK</i> ₂₆	220.047	0.67	2 W

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Planet	Period	Variation	Note	Planet	Period	Variation	Note
49652	1999 JW ₈₁	3.798	1 W	50515	2000 DS ₁₀₅	3.75	3 W
49653	1999 JO ₈₅	>8.	N	50518	2000 DL ₁₀₉	6.071	2 W
49662	1999 KC ₃	8.032	2 W	50554	2000 EC ₂₄	161.921	2 W
49667	1999 OM ₂	3.48608	3 W	50557	2000 EN ₂₅	5.206	2 W
49668	1999 OP ₂	2.072	1 W	50566	2000 EL ₃₈	4.606	0.63-0.73 2 W
49669	1999 RZ ₃₀	3.119	2+	50569	2000 ET ₃₈	6.222	2 W
49671	1999 RP ₄₆	700.072	2 W	50573	2000 EX ₃₉	3.9789	2 A
49672	1999 RM ₁₀₃	4.648	2 W	50575	2000 EL ₄₀	4.308	1 W
49674	1999 SB ₅	7.56	3-	50583	2000 EN ₄₂	7.744	2 W
49675*	1999 SW ₂₇	4.994	3 W	50596	2000 EV ₄₇	2.908	0.95 2 W
49678	1999 TQ ₇	3.957	3 W	50647	2000 EN ₈₈	319.971	0.88 2 W
49719	1999 VE ₅₀	1.24	1+ W	50648	2000 EL ₈₉	4.80	0.19 2 W
49758	1999 VY ₁₈₈	5.209	2 W	50652	2000 ER ₉₁	4.396	0.48 2 W
49766	1999 WS	6.82	2+ W	50672	2000 EN ₁₀₇	5.216	0.30 2 W
49777	Cappi	5.939	2 W	50682	2000 EJ ₁₁₁	7.237	0.80 2 W
49781	1999 XT ₇	6.436	2 W	50694	2000 EM ₁₂₄	3.962	0.65-0.69 2 W
49795	1999 XJ ₃₂	5.938	2 W	50719	2000 EG ₁₄₀	1256.016	0.42 2 W
49820	1999 XS ₆₄	10.195	2 W	50730	2000 EZ ₁₄₉	7.395	0.44 2 W
49832	1999 XA ₈₄	2.520	1 W	50734	2000 EP ₁₅₃	7.972	0.27 2 W
49859	1999 XB ₁₀₀	12.591	2 W	50739	2000 EY ₁₅₆	7.725	0.37 2 W
49868	1999 XF ₁₁₂	33.288	2 W	50740	2000 EO ₁₅₇	12.932	0.46 2 W
49879	1999 XH ₁₃₅	5.875	2 W	50748	2000 ED ₁₇₁	2.974	0.29 2 W
49880	1999 XP ₁₃₅	11.111	1 W	50759	2000 EF ₁₈₃	3.145	0.34 2 W
49889	1999 XA ₁₅₈	7.06	2 W	50762	2000 EY ₁₈₄	3.198	0.29-0.32 2 W
49904	1999 XN ₁₆₅	10.441	2 W	50776	2000 FS ₁₂	11.156	0.36 2 W
49910	1999 XS ₁₆₉	2.758	2 W	50811	2000 FZ ₂₉	5.177	0.42-0.43 2 W
49923	1999 XQ ₁₇₄	5.21	2+ W	50822	2000 FH ₃₅	6.	0.08 1+ W
49953*	1999 XL ₂₁₅	2.99645	3 W	50827	2000 FN ₃₇	2.68	0.20 2 W
50000*	Quaoar	8.840	2 1AB	50866	Davidesprizzi	2.179	0.09 1 W
50002	2000 AB ₁₆	5.568	2 W	50879	2000 GT ₃₂	9.7	0.3 1 W
50008	2000 AF ₂₅	16.417	2 W	50886	2000 GW ₃₉		0.64 W
50013	2000 AE ₃₁	3.770	2 W	50893	2000 GX ₄₁	4.224	0.41 2 W
50016	2000 AT ₃₂	2.92	2 W	50895	2000 GH ₄₂	6.411	0.26 2 W
50023	2000 AY ₃₇	8.936	2 W	50897	2000 GA ₄₄	17.428	0.08 1 W
50025	2000 AR ₄₁	11.003	2 W	50911	2000 GC ₅₄	5.051	0.43 2 W
50031	2000 AH ₄₇	6.61	3- W	50914	2000 GE ₅₆	41.048	0.64 2 W
50034	2000 AJ ₄₈	61.564	2 W	50926	2000 GF ₆₅	6.27	0.30-0.34 2 W
50038	2000 AT ₅₄	7.26	3- W	50934*	2000 GW ₆₈	17.9	0.53 2- W
50081	2000 AL ₈₈	9.589	2 W	50960	2000 GN ₈₂	12.15	0.40 2- W
50089	2000 AA ₉₅	5.865	1 W	50966	2000 GZ ₈₅	3.119	0.09 1 W
50129	2000 AN ₁₂₅	3.002	2 W	50971	2000 GP ₈₈	3.738	0.49-0.68 2 W
50138	2000 AY ₁₂₈	11.380	2 W	50972	2000 GE ₉₀	7.56	0.43 1+ W
50142	2000 AY ₁₂₉	18.274	2 W	50983	2000 GT ₉₃	8.103	0.47 2 W
50156	2000 AN ₁₄₂	4.956	2 W	50990	2000 GH ₉₄	5.149	0.23 2 W
50171	2000 AA ₁₅₉	5.462	2 W	50991	2000 GK ₉₄	7.010	0.86 3 W
50176	2000 AH ₁₆₃	158.592	2 W	51009	2000 GF ₁₀₃	73.783	1.05 2 W
50179	2000 AW ₁₆₃	6.066	2 W	51010	2000 GN ₁₀₃	139.156	0.39 2 W
50196	2000 AM ₁₉₈	10.166	2 W	51033	2000 GD ₁₂₂	5.784	0.36 2 W
50203	2000 AH ₂₀₃	7.2	>0.4 1 W	51035	2000 GQ ₁₂₄	14.401	0.32 2 W
50248	2000 BB ₁₆	16.659	0.09 1 W	51040	2000 GC ₁₃₄	7.869	0.42 2 W
50257	2000 BQ ₂₆	5.110	2 W	51069	2000 GV ₁₅₇	3.904	0.31 2 W
50261	2000 BM ₂₇		HNW	51075	2000 GG ₁₆₂	>1.0	0.04-0.6 W
50262	2000 BN ₂₇	2.978	2 W	51088	2000 GE ₁₇₇	4.12	0.57 1+ W
50274	2000 CN ₁		HNW	51096	2000 HP ₇	8.11	0.73-0.75 3- W
50286	2000 CA ₂₆	6.652	2 W	51099	2000 HZ ₈	7.692	0.55-0.66 2 W
50287	2000 CT ₂₆	3.430	0.45-0.50 2 W	51100	2000 HQ ₁₀	>15.	>0.5 2- W
50303	2000 CX ₃₆	3.625	1 W	51109	2000 HA ₂₅	4.92	0.25 2 W
50317	2000 CZ ₄₇	2.6785	2 W	51122*	2000 HN ₃₅	2.7378	0.42 2 W
50321	2000 CH ₅₁	5.695	2 W	51131	2000 HM ₄₁	10.099	0.43 2 W
50329	2000 CK ₅₆	7.06	2 W	51135	2000 HO ₄₄	4.486	0.44 2 W
50332	2000 CP ₅₇	13.241	1 W	51154	2000 HC ₅₆	6.125	0.40 2 W
50338	2000 CU ₆₁	5.720	2 W	51156	2000 HJ ₅₆	4.446	0.37 2 W
50349	2000 CC ₇₀	3.224	2 W	51160	2000 HR ₅₇	5.397	0.52 2 W
50350	2000 CD ₇₀	5.75	0.70-0.98 2 W	51176	2000 HF ₇₀	25.022	0.69 2 W
50352	2000 CK ₇₀	10.535	2 W	51191	2000 HT ₉₄	13.235	0.46 2 W
50378	2000 CV ₈₈	5.605	0.45-0.46 2 W	51202	2000 JR ₆		0.52 W
50381	2000 CG ₈₉	9.657	2 W	51214	2000 JF ₂₂	5.503	0.48 2 W
50399	2000 CQ ₁₀₂	3.42	0.13 2 W	51220	2000 JG ₂₃	198.808	0.08 1 W
50403	2000 CB ₁₁₄	2.5671	0.17 3- W	51224	2000 JU ₂₄	34.890	0.73-0.82 2 W
50406	2000 CK ₁₁₆	7.156	0.25 2 W	51238	2000 JT ₃₄	250.645	0.42 2 W
50411	2000 DS	5.020	2 W	51276	2000 JZ ₈₁	5.555	0.8 1 W
50413	Petrginz	4.80	2 W	51283	2000 KN ₇	4.775	0.32 2+ W
50433	2000 DC ₂₂	8.42	2 W	51286	2000 KK ₁₅	3.56	0.23 2- W
50455*	2000 DX ₅₂	2.56	2 W	51299	2000 KX ₅₂	8.949	0.41 2 W
50468	2000 DA ₆₉	7.2	0.05 1 W	51302	2000 KY ₅₄	2.46	0.08 2 W
50478	2000 DN ₇₄	9.067	2 W	51332	2000 LP ₃₅	5.870	0.56 2 W
50487	2000 DH ₈₅		HNW	51339	2000 OA ₆₁	19.449	0.56 2 W
50493	2000 DL ₉₃	4.638	0.40-0.46 2 W	51342	2000 QO ₇₅	2.910	0.26 2 W
50495	2000 DU ₉₃	13.927	0.72 2 W	51350	2000 QU ₁₇₆	11.306	0.31-0.34 2 W
50511	2000 DZ ₁₀₁	>8.	N	51356	2000 RY ₇₆	2.5572	0.09 3 AB

MINOR PLANET LIGHTCURVE PARAMETERS

Planet	Period	Variation	Note	Planet	Period	Variation	Note
51357 2000 <i>RM</i> ₈₈	9.07	0.51	2 W	52301 Qumran	3.225	0.08	1 W
51364 2000 <i>SU</i> ₃₃₃	30.56	0.50-0.55	3- W	52309 Philnicolai	4.641	0.62	2 W
51365 2000 <i>TA</i> ₄₂	58.76	0.14-0.26	2+ W	52314 1991 <i>XD</i>	7.683	0.56-0.61	3 B
51371 2000 <i>XF</i> ₁₅	54.	0.09	2- AT0	52316 Daveslater	2.7629	0.10	3 B
51381 2001 <i>BG</i> ₅₁	47.134	0.38-0.47	3 W	52317 1992 <i>BC</i> ₁	34.07	0.11	2+ A
51383 2001 <i>BF</i> ₇₇	6.366	0.27	2 W	52330 1992 <i>EA</i> ₁₅	3.203	0.29-0.33	2 W
51384 2001 <i>CP</i> ₄	11.696	0.58	2 W	52353 1993 <i>FP</i> ₁₉	5.05	0.16	2 W
51386 2001 <i>CN</i> ₃₅	48.0	0.36	2 T0	52379 1993 <i>FL</i> ₈₁	17.213	0.73	2 W
51423 2001 <i>FJ</i>	3.971	0.61	2 W	52381 1993 <i>HA</i>	4.107	0.58	3- W
51458 2001 <i>FL</i> ₄₂	6.23	0.58	2 W	52387 Huitzilopochtli	>26.	>0.4	2 T0
51486 2001 <i>FL</i> ₇₃	7.391	0.57	2 W	52392 1993 <i>RG</i> ₅	3.351	0.26-0.29	2 W
51495 2001 <i>FO</i> ₇₉	17.919	0.39-0.71	2 W	52410 1993 <i>UG</i> ₆	43.072	0.77	2 W
51511* 2001 <i>FP</i> ₉₈	9.438	0.57	3- W	52431 1994 <i>PS</i> ₁₀			2 HNW
51513 2001 <i>FY</i> ₉₉	3.428	0.46	2 W	52436 1994 <i>PM</i> ₂₆	3.58	0.11	2 W
51519 2001 <i>FT</i> ₁₀₉	2.057	0.08	1 W	52437 1994 <i>PY</i> ₂₇	5.02	0.66-0.83	3 W
51523 2001 <i>FJ</i> ₁₂₀	5.102	0.26	2 W	52505 1996 <i>FD</i> ₄	3.846	0.37	2+ W
51524 2001 <i>FJ</i> ₁₂₁	3.086	0.29	2 W	52521 1996 <i>JU</i> ₃	3.49	0.14-0.16	2 W
51542 2001 <i>FA</i> ₁₄₇	2.819	0.31	2 W	52522 1996 <i>JW</i> ₁₀	9.388	0.57-0.61	2 W
51573 2001 <i>HX</i> ₄	4.667	0.94	2 W	52532 1996 <i>TP</i> ₈	6.537	0.39	2 W
51609 2001 <i>HZ</i> ₃₂	6.767	0.40	3 W	52549 1996 <i>XB</i> ₃₁	14.33	0.19	2 W
51612 2001 <i>HT</i> ₃₃	3.49	0.22	2- W	52560 1997 <i>GL</i> ₁₄	3.555	0.07	1 W
51613 2001 <i>HS</i> ₃₄	6.23	0.19	2 W	52586* 1997 <i>PB</i>	3.04	0.38	2- W
51624 2001 <i>HT</i> ₃₇	12.086	0.38	2 W	52587 1997 <i>PD</i>	4.4571	0.09	3- W
51656 2001 <i>JD</i>	11.908	0.45	2 W	52598 1997 <i>SR</i> ₃	21.182	0.53	2 W
51659 2001 <i>JN</i> ₁	4.995	0.09	1 W	52620 1997 <i>VQ</i> ₃	3.210	0.25	2 W
51734 2001 <i>KX</i> ₄₆	15.434	0.31	2 W	52634 1997 <i>WR</i> ₂₈	4.351	0.07	1 W
51744 2001 <i>KP</i> ₅₆	9.743	0.63	2 W	52640 1997 <i>WJ</i> ₄₆	7.410	0.43	2 W
51761 2001 <i>LD</i> ₇	4.087	0.43	2 W	52646 1997 <i>YC</i>	14.491	0.48	2 W
51773 2001 <i>MV</i>	3.9976	0.16	N	52681 1998 <i>DK</i> ₃₄	6.363	0.68-0.72	2 W
51777 2001 <i>MG</i> ₈	155.931	0.79	2 W	52684 1998 <i>EQ</i> ₈	7.905	0.42	2 W
51780 2001 <i>MB</i> ₉	5.810	0.70-0.78	2 W	52692 1998 <i>FO</i> ₈	13.366	0.27	2 W
51801 2001 <i>NZ</i> ₂	133.893	0.18	2 W	52696 1998 <i>FC</i> ₅₁	4.29	0.28-0.33	2 W
51802 2001 <i>NF</i> ₄	4.146	0.28	2 W	52700 1998 <i>FG</i> ₆₂	16.973	0.63	2 W
51816 2001 <i>OY</i> ₁₂	5.148	0.41	2 W	52709 1998 <i>FA</i> ₈₄	16.003	0.32-0.36	2 W
51817 2001 <i>OA</i> ₁₃	19.692	0.80	2 W	52722 1998 <i>GK</i>	11.587	0.4	2 W
51819 2001 <i>OZ</i> ₁₅	4.182	0.33	2 W	52723 1998 <i>GP</i> ₂	11.90781		S p Ns
51820 2001 <i>OT</i> ₁₉	2.653	0.05	1 W	52748 1998 <i>JJ</i> ₁	4.258	0.73-0.80	3 B?
51828* Ilanramon	3.61	0.88	2 W	52750 1998 <i>KK</i> ₁₇	26.43	0.15-0.24	2+ W
51832 2001 <i>OS</i> ₄₆	19.757	0.94	2 W	52760 1998 <i>ML</i> ₁₄	14.28	0.12-0.15	2 p W
51840 2001 <i>OH</i> ₆₅	3.115	0.39	2+ W	52762 1998 <i>MT</i> ₂₄	12.08	0.27-0.4	2 A
51851 2001 <i>OC</i> ₉₃	7.661	0.63	2 W	52768 1998 <i>OR</i> ₂	4.112	0.16-0.29	2+ W
51853 2001 <i>OY</i> ₉₆	6.801	0.49	2 W	52773 1998 <i>QU</i> ₁₂	3.70834	0.35	3 W
51854 2001 <i>OG</i> ₁₀₀	8.256	0.22	2 W	52776 1998 <i>QS</i> ₁₉	7.151	0.52-0.55	2 W
51855 2001 <i>OK</i> ₁₀₂	9.621	0.51-0.52	2 W	52786 1998 <i>QP</i> ₄₂	>144.	>0.5	>144. HNW
51857 2001 <i>OA</i> ₁₀₅	4.313	0.33	2 W	52801 1998 <i>QG</i> ₆₃	5.197	0.60	2 W
51867 2001 <i>PC</i> ₄	5.858	0.32	2 W	52816 1998 <i>QX</i> ₉₈			HNW
51870 2001 <i>PC</i> ₆	17.020	0.30	2 W	52819 1998 <i>KK</i> ₁₀₄	3.95	0.38	2 W
51871 2001 <i>PH</i> ₈	13.127	0.08	1 W	52839 1998 <i>RZ</i> ₅₅	49.2	>0.1	1 W
51874 2001 <i>PZ</i> ₂₈	3.685	0.19	3- W	52852 1998 <i>RB</i> ₇₅	5.432	0.18	3- W
51888* 2001 <i>QZ</i> ₁₇	331.	0.39	2+ W	52872 Okyrhoe	9.72	0.07-0.4	2 A
51898 2001 <i>QS</i> ₃₆	9.710	0.39	2 W	52889 1998 <i>SH</i> ₆₁	2.567	0.09	1 W
51902 2001 <i>QL</i> ₃₉			HNW	53008 1998 <i>VY</i> ₅	47.	0.11-0.30	2 W
51906 2001 <i>QN</i> ₅₁	6.511	0.90	2 W	53011 1998 <i>VH</i> ₉	4.817	0.09	1 W
51911 2001 <i>QD</i> ₆₈	4.568	0.21-0.32	2 W	53028 1998 <i>WX</i> ₅	4.437	0.53	2 W
51926 2001 <i>QE</i> ₉₈	5.610	0.19	2 W	53043 1998 <i>WY</i> ₂₁	30.406	0.77	2 W
51937 2001 <i>QD</i> ₁₅₉	6.668	0.67-0.70	2 W	53110* 1999 <i>AR</i> ₇	2.7375	0.10-0.25	3 B
51958 2001 <i>QJ</i> ₂₅₆	16.79	0.30	2 W	53113 1999 <i>AP</i> ₈	7.830	0.32	2 W
51959 2001 <i>QH</i> ₂₅₇	27.510	0.30	2 W	53115 1999 <i>AM</i> ₁₄	4.04	0.16	2 W
51987 2001 <i>SV</i> ₁₇₉	2.82	0.18-0.22	2 W	53120 1999 <i>AE</i> ₂₁			HNW
51992 2001 <i>TX</i> ₃₇	2.836	0.10	2 W	53122 1999 <i>AS</i> ₂₂	2.910	0.45	2 W
51995 2001 <i>TK</i> ₁₀₁	8.938	0.95	2 W	53123 1999 <i>AB</i> ₂₃	5.460	0.67	2 W
51996 2001 <i>TH</i> ₁₁₈	28.305	0.29	2 W	53176 1999 <i>CF</i> ₃₁	2.558	0.18	2 W
52011 2002 <i>LW</i> ₁₉	114.456	0.08	1 W	53186 1999 <i>GB</i> ₄₅	13.191	0.55-0.63	2 W
52046 2002 <i>PH</i> ₈₃	4.23	0.49	2 W	53196 1999 <i>CF</i> ₅₅	9.309	0.46	2 W
52054 2002 <i>PB</i> ₁₂₁	6.284	0.69	2 W	53206 1999 <i>CK</i> ₇₄	3.826	0.50	2 W
52059 2002 <i>PH</i> ₁₃₃	5.384	0.29	2 W	53207 1999 <i>CQ</i> ₇₄	8.436	0.27	2 W
52060 2002 <i>QJ</i> ₇	4.898	0.67	2 W	53208 1999 <i>CE</i> ₇₅	2.354	0.23	2 W
52065 2002 <i>QA</i> ₂₃	2.355	0.07	1 W	53209 1999 <i>CQ</i> ₇₅	14.335	0.24	2 W
52138 6131 <i>P-L</i>	6.824	0.09	1 W	53247 1999 <i>DE</i> ₂	4.790	0.42	3- W
52179 2270 <i>T-2</i>	4.97	0.81	2 W	53284 1999 <i>FK</i> ₄₇	5.167	0.20	2 W
52191 4263 <i>T-2</i>			HNW	53291 1999 <i>GQ</i> ₁₀	7.80	0.40	2 W
52192 5053 <i>T-2</i>	5.524	0.60-0.67	2 W	53294 1999 <i>GS</i> ₁₆	7.4	0.36	2 W
52194 1149 <i>T-3</i>	11.109	0.36	2 W	53298 1999 <i>GF</i> ₂₅	5.51	0.42-0.45	3- W
52199 2465 <i>T-3</i>	11.953	0.74-0.82	2 W	53300 1999 <i>GD</i> ₃₁	3.86	0.13	2 W
52215 4213 <i>T-3</i>	9.394	0.10	1 W	53319 1999 <i>JM</i> ₈	136.	0.7	2 T
52224 5602 <i>T-3</i>	3.950	0.72	2 W	53328 1999 <i>JS</i> ₂₆	19.059	0.34	2 W
52235 1979 <i>MW</i> ₂	8.360	0.73-0.75	2 W	53337 1999 <i>JX</i> ₄₂	137.138	0.41	2 W
52253 1981 <i>EZ</i> ₃₅	11.86	0.97	1 DAW	53342 1999 <i>JK</i> ₅₁	4.622	0.71	2 W
52266 Van Flandern	9.890	0.52-0.61	3 W	53399 1999 <i>JG</i> ₁₁₂	3.335	0.26	2 W
52296 1990 <i>WM</i> ₃	9.342	0.22-0.25	2 W	53424 1999 <i>SC</i> ₃	6.40	0.10	2+ W

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Planet	Period	Variation	Note	Planet	Period	Variation	Note
53425 1999 SO ₄	3.946	0.31	2 W	54656 2000 SX ₃₆₂	11.937	0.29	2
53426 1999 SL ₅	5.03	0.15	2	54660 2000 UJ ₁	5.43	1.15	3-
53430 1999 TY ₁₆	9.58	0.53-0.80	3	54671 2000 WW ₁₀₂	5.533	0.66	2 W
53431 1999 UQ ₁₀	2.650	0.10-0.15	3	54672 2000 WO ₁₈₀	16.712	0.25	2 W
53432 1999 UT ₅₅	3.330	0.10	3 B	54685 2001 CT ₃₃	21.157	0.10	1 W
53435 1999 VM ₄₀	5.189	0.19-0.38	3	54686 2001 DU ₈	12.552	0.90	3
53438 1999 WY ₉	5.635	1.12	2+	54697 2001 FA ₇₀	3.05204	0.05-0.09	3 B?
53453 1999 XX ₁₃₅	3.407	0.37	3-	54704 2001 FC ₁₇₂	2.91	0.39	2-
53465 1999 XY ₂₂₂	5.072	0.13	2 W	54705 2001 GW ₃	9.966	0.25	2 W
53494 2000 AP ₆₈	4.126	0.17	2 W	54717 2001 HQ ₆₀	8.977	0.53	2 W
53515 2000 AT ₁₃₆	8.652	0.48-0.49	2 W	54723 2001 KW ₁	12.536	0.31	2 W
53523 2000 AC ₁₅₃	2.172	0.09	1 W	54727 2001 KO ₁₀	10.278	0.40	2 W
53530 2000 AV ₂₀₀	4.310	0.26-0.34	3-	54735 2001 KW ₂₄	5.36	0.15	2 W
53531 2000 AD ₂₁₂	2.69	0.11	2 W	54737 2001 KM ₂₇	7.342	0.71	2 W
53533 2000 AA ₂₁₆	5.674	0.51	2 W	54789 2001 MZ ₇	37.57	1.4	3 T+
53535 2000 AH ₂₃₇	18.882	0.10	1 W	54800 2001 MC ₁₅	83.291	0.61	2 W
53537 2000 AZ ₂₃₉	72.488	0.38	2 W	54806 2001 MX ₂₂	5.597	0.43	2 W
53585 2000 CF ₅₂	>33.	>0.1	N	54818 2001 NR	2.074	0.42	2 W
53595* 2000 CK ₆₂	4.10	0.14	2	54827 2001 NQ ₈	5.8764	0.25-0.54	3 p
53601 2000 CK ₇₂	>16.	>0.15	1 W	54843 2001 OX ₂	11.175	0.31	2 W
53620 2000 CN ₉₃	3.16	0.61-0.66	2 W	54850 2001 OZ ₁₁	4.22216		p Ns
53632 2000 CP ₁₂₃	9.055	0.65	2 W	54853 2001 OQ ₁₉			p HNw
53639 2000 DJ ₁₃	5.11	0.55-0.56	2 W	54872 2001 OW ₄₆	40.374	0.31	2 W
53734 2000 EB ₄₆	5.05	0.31	2 W	54879 2001 OO ₅₄	5.329	0.10	1 W
53739 2000 EB ₄₉	28.913	0.23	2 W	54896 2001 OP ₇₀	5.633	0.5	2
53789 2000 ED ₁₀₄	43.	>1.1	NT0	54906 2001 OT ₈₀	9.930	0.10	1 W
53790 2000 EV ₁₀₅	9.60	0.36	2+	54959 2001 PS ₈	4.684	0.84	2 W
53815 2000 EQ ₁₃₇	2.705	0.33	2 W	54979 2001 PP ₅₆	3.75	0.15	2 W
53827 2000 EH ₁₄₉	8.97	0.93	2 W	54984 2001 QR	13.52	0.45	2 W
53843 Antjiekrog	4.213	0.29	2 W	55002 2001 QF ₁₉	4.56	0.20	1+
53863 2000 FJ ₂₆	7.104	0.82	2 W	55004 2001 QT ₂₂	3.81	0.41-0.43	3-
53909 2000 GC ₄	3.100	0.25-0.35	2 W	55014 2001 QC ₃₁	3.3330	0.46-0.53	2 W
53924 2000 GJ ₃₇	5.400	0.33	2 W	55025 2001 QF ₄₀	15.24	0.53	2 W
53930 2000 GO ₄₂	10.593	0.52	2 W	55043 2001 QL ₅₉	2.619	0.10	2
53933 2000 GG ₄₄	6.23	0.73	1 W	55045 2001 QJ ₆₂	3.143	0.60	2 W
53965 2000 GY ₆₄	4.90	0.25	2 W	55063 2001 QS ₇₈	3.24	0.48	2+
53980 2000 GK ₇₃	2.870	0.19	2 W	55073 2001 QY ₉₂	3.627	0.35	2 W
53982 2000 GG ₇₄	36.376	0.83	2 W	55078 2001 QB ₁₀₁	4.287	0.70	2 W
54023 2000 GD ₁₀₀	51.855	0.08	1 W	55097 2001 QT ₁₃₂	4.370	0.44-0.46	2 W
54041 2000 GQ ₁₁₃	18.86	0.20	2	55128 2001 QJ ₁₇₇	3.00	0.18	2 W
54051 2000 GL ₁₂₆	5.94	0.20	2-	55166 2001 QV ₂₄₃	6.67	0.27	2-
54063 2000 GC ₁₃₆	5.154	0.45	3	55176 2001 QD ₂₆₂	46.885	0.22	2 W
54071 2000 GQ ₁₄₆	51.	>0.2	NT0	55200 2001 RO ₁₉	18.3910		p Ns
54076 2000 GL ₁₅₄	4.95	0.25	2 W	55257 2001 RQ ₁₂₀			p HNw
54108 2000 HU ₉	7.184	0.77	2 W	55273 2001 SY	8.903	0.58	2 W
54139 2000 HZ ₃₆	3.888	0.44-0.67	2 W	55293 2001 SY ₃₉	4.62	0.16	2 W
54158 2000 HY ₄₈		0.85	W	55312 2001 SK ₆₀	6.578	0.65	2 W
54189 2000 HQ ₇₅	4.21	0.56	2 W	55313 2001 SS ₆₃	8.35	0.70	2 W
54222 2000 JF	5.487	0.34-0.36	2 W	55324 2001 SH ₁₀₆	11.130	0.46-0.49	2 W
54234 2000 JD ₁₆	2.664	0.13-0.39	3-	55327 2001 SD ₁₀₉	6.587	0.35	2 W
54238 2000 JD ₁₉	23.421	0.28	2 W	55340 2001 ST ₁₂₅	8.65	0.16	2 W
54253 2000 JP ₂₇	17.5		N	55346 2001 SS ₁₃₉			HNw
54272 2000 JT ₄₀	16.27	0.61	2 W	55384 2001 SQ ₂₆₇	2.57	0.19	2 W
54291 2000 JD ₅₇	4.069	0.53	2 W	55387 2001 SD ₂₇₂	3.05	0.18	2 W
54295 2000 JO ₅₉	3.917	0.24	2 W	55423 2001 TT ₃₃	37.5	0.15	1 W
54349 2000 KX ₂₉	3.58	0.63	2 W	55424 2001 TQ ₃₄	17.234	0.43	2 W
54355* 2000 KJ ₃₃	6.9462	0.28	3-	55430 2001 TY ₅₂	3.0244	0.18	2 W
54376 2000 KV ₅₆	4.178	0.58-0.71	2 W	55444 2001 TC ₉₆	>12.0	>0.25	2-
54397 2000 KC ₈₀	7.354	0.46-0.55	2 W	55451 2001 TM ₁₂₃	4.140	0.36	2 W
54410 2000 LG ₉	8.211	0.66	2 W	55455 2001 TR ₁₃₁	13.250	0.38	2 W
54427 2000 LG ₂₇	3.858	0.33-0.37	2 W	55459 2001 TW ₁₃₉	11.308	0.60	2 W
54432 2000 LG ₃₁	7.11	1.49	2 W	55474 2001 TY ₂₂₉		0.93	I
54439 Topeka	7.38	0.38	2-	55497 2001 UA ₈₃	3.21	0.37	1+
54445 2000 MW ₅	5.288	0.63-0.64	2 W	55503 2001 UC ₁₀₀	7.665	0.29	2 W
54453 2000 NL ₁₅	5.855	0.75	2 W	55514 2001 VJ ₆	7.1	0.40	2+
54460 2000 NU ₂₈	6.728	0.51	2 W	55523 2001 VB ₅₁	46.	0.2	1 W
54469* 2000 OM ₈	4.743	0.30	2+	55532 2001 WG ₂	46.08	0.55	2 T
54501 2000 OB ₅₂	6.0	0.20	2-	55545 2001 XY ₃₄	2.63	0.24	2 W
54509 YORP	0.2029	0.77-0.89	p N	55565 2002 AW ₁₉₇	8.86	0.08-0.08	2- 1A
54533 2000 QM ₃₈	7.64	0.35	1+ DAW	55567 2002 CS ₆	6.646	0.48	2 W
54537 2000 QD ₄₉	2.782	0.23-0.24	2 W	55576 Amycus	9.76	0.16	2-
54560 2000 QM ₁₃₂	5.502	0.17	2 W	55578 2002 GK ₁₀₅	14.936	0.37	2 W
54579 2000 QA ₁₆₅	4.76	0.30	2 W	55592 2002 PY ₁₂₈	5.617	0.72	3-
54584 2000 QC ₁₈₁	2.92	0.08	3-	55601 2002 RC ₁₁₀	14.54	0.51	1 DAW
54587 2000 QM ₁₈₉	15.776	0.45	2 W	55606 2002 RN ₁₅₄	7.01	0.49	2+
54591 2000 QC ₂₀₂	2.73	0.12	2+	55622 2002 TE ₁₄₃	3.374	0.84	2 W
54598* Bienor	9.14	0.08-0.75	3 p	55624 2002 TY ₁₉₆	2.971	0.11	2 W
54616 2000 RZ ₉₇	5.014	0.27	2 W	55628 2002 TN ₂₄₉	16.429	0.63	2 W
54630 2000 SM ₁₁₂		0.91	I	55636 2002 TX ₃₀₀	8.12	0.08-0.09	2 A
54652 2000 SZ ₃₄₄	5.26	0.07	2	55637 2002 UX ₂₅	14.382	0.13-0.21	2 HAB

MINOR PLANET LIGHTCURVE PARAMETERS

Planet	Period	Variation	Note	Planet	Period	Variation	Note
55638 2002 VE ₉₅	6.76	0.05-0.08	1+ 1A	56982 2000 SE ₁₈₉	43.2	0.47	2
55652 4048 P-L		0.57	W	57010 2000 TP ₁	10.00	0.84	1 DAW
55658 6061 P-L	63.741	0.43-0.58	2 W	57035 2000 WG ₅₄	4.34	0.26	2 W
55728 1981 EV ₁₇	9.623	0.80-0.97	2 W	57041* 2001 EN ₁₂	8.562	0.47-0.52	2+ HW
55735 Magdeburg	15.41	0.14	3- W	57062 2001 NC ₁	3.582	0.35	2 W
55760 1992 BL ₁	8.0813	0.32	3	57083* 2001 OM ₃₁	3.44805	0.40-0.49	3
55763 1992 DO ₇	8.21	0.74	2 W	57087* 2001 OB ₄₁	3.62	0.47	2
55776 1993 FH ₁₄	>20.	>0.4	2 W	57108 2001 OS ₇₄	8.683	0.10	1 W
55793 1993 SS ₄	4.756	0.29	2 W	57112 2001 OC ₈₁	3.128	0.37	2 W
55798 1994 ES ₅	8.415	0.28	2 W	57136 2001 PE ₂₃	5.64	0.16	2+
55815 Melindakim	6.117	0.32	2 W	57137 2001 PH ₂₃	2.690	0.25	2 W
55844 Bicak	2.8052	0.10	3	57156 2001 QM ₁₀			HNW
55849 1996 TZ ₁₁	3.950	0.10	1 W	57169 2001 QN ₁₉	3.434	0.39	2 W
55854 Stoppani	3.067	0.28-0.33	3	57171 2001 QT ₂₀	12.914	0.10	1
55860 1997 BQ ₆	11.85	0.72	2 W	57175 2001 QD ₂₄	8.401	0.51	2 W
55894 1997 YS ₃	3.162	0.20	2 W	57189 2001 QX ₃₀	3.219	0.20	2 W
55902 1998 CO ₂	5.380	0.55	2 W	57194 2001 QP ₃₄	6.880	0.45	2 W
55917 1998 FN ₃₀	9.41	0.34	2 W	57212 2001 QM ₆₀	17.3	0.21	2 W
55924 1998 FE ₅₅	4.81	0.28	2+ W	57219 2001 QY ₇₁	2.885	0.28-0.57	3
55949 1998 HZ ₄₅	11.135	0.43-0.50	2 W	57232 2001 QD ₇₈	8.807	0.27	2 W
55965 1998 KN ₁₄	8.568	0.27	2 W	57248 2001 QT ₉₁	10.416	0.33	2 W
56005 1998 SK ₁₆₉	7.33	0.78	2 W	57251 2001 QO ₉₆	11.313	0.30	2 W
56022 1998 VL ₂₃	4.337	0.36-0.52	2 W	57252 2001 QS ₉₆	11.427	0.30	NA
56041 Lucidumont	5.6	0.07	1	57262 2001 QS ₁₀₆	6.435	0.37-0.40	2 W
56047 1998 XK ₃₆	3.932	0.34	2 W	57276 2001 QP ₁₃₉	long	>0.1	
56056 1998 XP ₅₈	121.071	0.06	1 W	57277 2001 QV ₁₃₉	3.120	0.30	2 W
56062 1998 XD ₉₁	2.82	0.33	2 W	57282 2001 QX ₁₅₅	39.921	0.10	1 W
56070 1998 YQ ₅	4.501	0.20	2 W	57292 2001 QV ₁₇₄	3.4064	0.09	2+
56080 1999 AN ₃	4.75	0.32-0.33	3- W	57303 2001 QL ₁₉₈	3.540	0.56	2 W
56093 1999 BM ₅	4.83	0.66-0.67	3- W	57332 2001 RU ₂₄₆	5.203	0.45	2 W
56116* 1999 CZ ₇	3.12	0.27	2+ W	57348 2001 QW ₂₈₁	6.976	0.28	2 W
56150 1999 CT ₁₀₃	2.84	0.08	2+ W	57364 2001 RU ₂₇	11.084	0.25-0.33	2 W
56195 1999 GX ₆	4.80	0.45	2+ W	57368 2001 RP ₄₄	10.11	0.16	2 W
56208 1999 GY ₃₅	8.664	0.42	2 W	57394 2001 RD ₈₄	6.74	0.60-0.63	2+ p
56212 1999 GJ ₄₅	6.626	0.53-0.55	2 W	57397 2001 RU ₈₆	13.638	0.64	2 W
56227 1999 JT ₂₃	33.911	0.36	2 W	57453 2001 SL ₇₀	148.749	0.08	1 W
56232 1999 JM ₃₁	5.6	0.50	2	57454 2001 SZ ₇₀	63.435	0.92	2 W
56238 1999 JA ₄₆	4.25	1.01	3 W	57465 2001 SH ₁₀₈	41.555	0.43	2 W
56248 1999 JQ ₇₄	4.87	0.48	2+ W	57478 2001 SW ₁₅₁	5.887	0.58	3-
56264 1999 JV ₉₅	17.3	0.69	2 W	57490 2001 ST ₁₇₅	8.21	0.62-0.74	2 W
56292 1999 NK ₄₀	7.90	0.76	1 DAW	57537 2001 TQ ₁₃	3.95	0.39	2 W
56299 1999 RT ₄₇	5.739	0.45-0.49	2 W	57560 2001 TB ₄₇	9.913	0.60	2+ W
56313 1999 SV ₁₄	8.684	0.38-0.45	2 W	57575 2001 TT ₆₆	4.641	0.47	2 HW
56318 1999 UR ₃	3.541	0.36	3	57648 2001 TM ₂₀₃	8.359	0.27	2 HW
56331 1999 XD ₃₃	5.646	0.90	2 W	57670 2001 UB ₃₀	6.32	0.22	2 W
56367 2000 EF	98.	0.8	2- AT0	57689 2001 UM ₇₃	19.661	0.36-0.43	2 W
56394 2000 EB ₁₂₆	9.32	0.57	2+ W	57708 2001 UV ₁₁₉	11.85	0.37-0.40	2 W
56436 2000 GZ ₄₆	2.656	0.16	2	57715 2001 UR ₁₂₅	6.296	0.60	2 W
56452 2000 GU ₈₆	26.760	0.07	1 W	57721 2001 UJ ₁₃₉	5.00	0.20	2 W
56473* 2000 GY ₁₀₈	7.01	0.52	2	57731 2001 UN ₁₅₄	3.72	0.26	1+ W
56482 2000 GY ₁₁₅	51.5	0.75	2	57738* 2001 UZ ₁₆₀	20.51	0.57-0.65	3-
56501 2000 GG ₁₅₃	19.5	0.85	2- W	57739 2001 UF ₁₆₂	5.9	0.52	2-
56502 2000 GY ₁₅₈	7.68	0.28	2 W	57743 2001 UB ₁₆₈	13.682	0.74	2 W
56515 2000 HD ₂₀		>0.05	W	57784 2001 VW ₈₅		>0.5	
56523 2000 HX ₂₅			HNW	57792 2001 VQ ₉₄	2.72	0.22	2 W
56548 2000 HZ ₇₄	6.35	0.32-0.58	2+ W	57802 2001 VO ₁₀₈	3.571	0.20	1 W
56558 2000 HK ₁₀₀	3.537	0.19-0.24	2 W	57803 2001 VW ₁₀₈	33.458	0.44	2 W
56565 2000 JY ₁₂	8.730	0.51	2 W	57815 2001 WV ₂₅	6.00	0.30	2- W
56570 2000 JA ₂₁	3.220	0.18-0.22	2 W	57822 2001 WV ₄₅	8.07	0.14	2 W
56585 2000 JZ ₂₉	5.67	0.80-0.81	3- W	57860 2001 XS ₂₁₄	12.923	0.59	2 W
56586 2000 JK ₃₁			HNW	57868 Pupin	108.10	0.93	3- T0
56590 2000 JY ₃₅	6.204	0.53	2 W	57896 2002 CN ₂₀₁	5.572	0.50	2 W
56591 2000 JP ₃₇		>0.25		57897 2002 CV ₂₁₃	14.528	0.25	2 W
56613 2000 JX ₆₂	12.721	0.32	2 W	57915 2002 EB ₁₁₀	7.65	0.36	2+ W
56633 2000 KY ₈	2.39	0.32	2 W	57928 2002 GD ₇₇	38.774	0.34	2 W
56647 2000 KG ₃₄	7.418	0.23-0.32	2 W	57932 2002 GA ₁₆₁	8.07	0.98	2 W
56662 2000 KY ₅₆	3.66	0.21	1+ W	57971 2002 NJ ₄₁	70.117	0.08	1 W
56682 2000 LA ₉	2.54	0.07	2- W	58012 2002 TM ₂₉₀	10.348	0.17	2 W
56702 2000 LQ ₂₈		1.15	W	58049 2002 XY ₈₆	5.376	0.39-0.51	2 W
56713 2000 MC ₃	18.927	0.32	2 W	58055 2003 AH ₆	2.87	0.15	2 W
56716 2000 MZ ₃	3.054	0.27	2 W	58085 1199 T-3	110.045	0.80	2 W
56762 2000 OB ₂₃	12.330	0.69	2 W	58097 Alimov	78.173	0.26	2 W
56777 2000 OC ₃₉	6.692	0.28	3- W	58118 1981 EX ₇	5.665	0.06	1 W
56782 2000 OC ₄₆	6.392	0.59	2 W	58119 1981 EJ ₉		0.14	
56794 2000 OO ₆₀	5.00	0.50-0.55	2 W	58120 1981 EU ₁₁	44.111	0.55	2 W
56834 2000 QO ₃₅	6.916	0.40	2 W	58155 1988 VD	7.093	0.36	2+ T?
56875 2000 QE ₁₁₁	5.33	0.48	2 W	58163* Minnesang	6.13	0.71	2+ W
56943 2000 RF ₇₆	6.81	0.71	2 W	58171 1990 SC ₅			HNW
56955 2000 ST ₁₄	2.81	0.35	2 W	58186 Langkavel	2.61	0.22	2 W
56958 2000 ST ₂₈	6.526	0.32-0.33	2 W	58192 1992 AQ	10.124	0.59	2 W

MINOR PLANET LIGHTCURVE PARAMETERS

Planet	Period	Variation	Note	Planet	Period	Variation	Note
58207 1992 EF ₁₄	7.1	0.28	N	59615 1999 JT ₆₉	4.87	0.64	3 W
58239 1993 FS ₇₇	12.00	0.38	1+ W	59636 1999 JJ ₈₁	3.7	0.20	2-
58288 1994 CF ₁₄	3.604	0.52	2 W	59639 1999 JS ₈₃	8.020	0.09	1 W
58289 1994 CC ₁₆	2.72	0.18	2 W	59669 1999 JM ₉₉	5.991	0.32	2 W
58337 1994 WV	2.6	0.15	1	59712 1999 JN ₁₂₆	19.689	0.61	2 W
58359 1995 KP ₄	4.796	0.54	2 W	59714 1999 JG ₁₂₈	9.724	0.51	2 W
58408 1995 XU	7.383	1.10	2 W	59748 1999 LE ₁₄	6.65	0.06	2
58417 Belzoni	5.924	0.43	2 W	59778 1999 NO ₃₉	5.52	0.79	2 W
58433 1996 FN ₁₈	6.187	0.77	2 W	59812 1999 RA ₁₈		0.62	W
58477 1996 RB ₂₆	5.1371	0.85	3 W	59855 1999 RD ₈₆	4.939	0.37	2 W
58480* 1996 RJ ₃₃	32.967	0.13-0.14	2 HW	59857 1999 RF ₉₃	5.112	0.42	2 W
58534 Logos			HNB	59868 1999 RH ₁₀₆	5.116	0.41	2 W
58540 1997 ET ₁₇	4.509	0.41	2 W	59879 1999 RM ₁₁₉	2.026	0.09	1 W
58541 1997 EA ₁₈	7.69	0.65-0.72	3- W	59881 1999 RZ ₁₂₁	2.179	0.37	2 W
58544 1997 EK ₄₂	9.996	0.34-0.35	2 W	59884 1999 RW ₁₂₃	8.698	0.56	2 W
58595 Joepollock	2.63	0.34	2 W	59893 1999 RY ₁₃₇	5.564	0.32	2 W
58605 Liutungsheng	4.78	0.80	2+	59915 1999 RF ₁₅₉	4.820	0.33	2 W
58613 1997 UN ₇	45.714	0.22	2 W	59917 1999 RC ₁₆₁	9.339	0.30	2 W
58623 1997 VZ ₁	10.194	0.64	2 W	59931 1999 RZ ₁₇₉	7.529	0.08	1 W
58651 1997 WL ₄₂	938.158	0.47	2 W	59939 1999 RW ₁₉₂	4.159	0.28-0.34	2 W
58653 1997 WV ₄₅	4.233	0.83	2 W	59940 1999 RT ₁₉₇	11.783	0.10	1 W
58658 1997 WY ₅₇	4.95	0.21-0.33	2 W	59942 1999 RZ ₁₉₇	33.379	0.61	2 W
58673 1997 YA ₉	9.731	0.52	NA	59962 1999 RL ₂₃₄	13.8	0.38	2-
58677 1997 YJ ₁₇	9.631	0.63	2 AW	59985 1999 SN ₁₁	29.721	0.09	1 W
58686 1998 BB ₁	3.58	0.24	2 W	60008* Jarda	8.1	0.16	2 W
58688 1998 BJ ₄	20.789	0.10	1 W	60014 1999 TW ₂₇	7.414	0.51	2 W
58699 1998 BK ₄₂	7.366	0.18	2 W	60022 1999 TX ₄₄	5.834	0.56	2 W
58703 1998 BH ₄₄	5.25	0.14	2 W	60024 1999 TW ₄₇	109.908	0.28	2 W
58704 1998 BA ₄₆	87.298	0.48	2 W	60030 1999 TE ₈₉	5.337	0.37	2 W
58715 1998 DK ₃	3.499	0.36	2 W	60042 1999 TF ₁₀₂	29.215	0.22	2 W
58789 1998 FK ₈₀	7.940	0.49	2 W	60048 1999 TS ₁₀₄	7.16	0.31	2 W
58798 1998 FU ₁₀₀	31.497	0.69	2 W	60052 1999 TM ₁₀₇	7.175	0.53	2 W
58819 1998 HF ₃	5.757	0.94	2 W	60055 1999 TB ₁₁₂	6.561	0.66	2 W
58854 1998 HV ₈₇	4.954	0.63	2 W	60057 1999 TZ ₁₁₇	15.613	0.29	2 W
58871 1998 HX ₁₁₄	4.538	0.42-0.46	2 W	60082 1999 TL ₁₅₀	66.541	0.56	2 W
58922 1998 KK ₅₈	8.35	0.74	2 W	60089 1999 TK ₁₅₄	2.71	0.37	3 W
58933 1998 ON ₁₀	6.187	0.42	2 W	60091 1999 TG ₁₅₆	3.60	0.16-0.29	2 W
58948 1998 QT ₅₄	9.574	0.33	2 W	60096 1999 TG ₁₆₆	5.209	0.65	2 W
58952 1998 QO ₇₄	7.514	0.63-0.76	2 W	60099 1999 TY ₁₇₃	9.23	0.38-0.43	2 W
58999 1998 SP ₂₃	10.785	0.26	2 W	60102 1999 TY ₁₈₂	8.202	0.30	2 W
59007 1998 SF ₆₃	2.228	0.10	1 W	60108 1999 TF ₂₀₅	4.202	0.60	2 W
59014 1998 SC ₇₄	5.524	0.51	2 W	60143 1999 TV ₂₉₂	3.598	0.54	2 W
59037 1998 SU ₁₄₀	7.385	0.07	1 W	60147 1999 TC ₃₂₀	36.381	0.28	2 W
59046 1998 TW ₁₇	4.027	0.34	2 W	60151 1999 UZ ₆	13.8836	0.75	3 p
59049 1998 TC ₃₁	6.173	0.65-0.69	2+ W	60178 1999 VY ₆	5.186	0.64	2 W
59057 1998 UO ₁₈	5.398	0.85-0.89	2 W	60216 1999 VG ₈₂	5.288	0.59	2 W
59078 1998 VT ₁₉	4.274	0.16	2 W	60271 1999 XN ₅₆	5.82	0.48	2 W
59143 1998 XT ₇₂	2.416	0.14-0.15	2 W	60310 1999 XD ₂₁₅	126.608	0.62	2 W
59168* 1998 YU ₁₉	17.6	0.60	2- W	60326 1999 YB ₂₃	18.993	0.24	2 W
59180 1999 AP ₁₂	7.747	0.58-0.80	2 W	60332 2000 AJ ₃₅	6.557	0.84-0.92	2 W
59186 1999 AK ₁₆	4.68	0.67	2 W	60335 2000 AR ₄₂	5.25	0.69	3-
59238 1999 CN ₂	2.64	0.14	2 W	60337 2000 AF ₅₁	5.428	0.87	2 W
59249 1999 CZ ₁₅	2.862	0.32	2 W	60348 2000 AT ₈₁	6.23	0.79	2 W
59255 1999 CB ₂₆	7.341	0.29-0.35	2 W	60365 2000 AT ₁₀₉	long	>0.2	
59263 1999 CK ₃₀		0.69	W	60371 2000 AN ₁₃₉	5.071	0.26	2 W
59271 1999 CG ₃₈	4.85	0.29	2 W	60398 2000 AG ₂₅₁		1.03	I
59285 1999 CP ₅₀	3.933	0.74	2 W	60403 2000 BK ₃₀	2.94	0.31	2 W
59286 1999 CV ₅₁	2.94	0.22	1+ W	60411 2000 CP ₂₀	5.30	0.59	3-
59291 1999 CJ ₅₆	2.884	0.24	2 W	60429 2000 CA ₅₂	2.761	0.26	2 W
59296 1999 CU ₆₄	22.532	0.46	2 W	60446 2000 CA ₈₈	15.035	0.52	2 W
59326 1999 CO ₉₈	3.36	0.10	2 W	60458 2000 CM ₁₁₄			HNB
59337 1999 CT ₁₁₁	4.587	0.37	2 W	60466 2000 DK ₁₂	3.536	0.06	1 W
59345 1999 CK ₁₃₅	6.19	0.32	2 W	60475 2000 DC ₃₆	2.58	0.34	1 W
59363 1999 DP ₇	4.704	0.37	2 W	60495 2000 DF ₈₈	5.717	0.45	2 W
59408 1999 FL ₄₀	7.50	0.20	2 W	60507 2000 DG ₁₀₆	9.411	0.54	2 W
59429 1999 GK ₈	8.38	0.76	1 DAW	60527 2000 EE ₄₃	6.01	0.36-0.44	2 W
59452 1999 GS ₃₄	8.441	0.41	2 W	60552 2000 EO ₈₉	29.213	0.56-0.70	2 W
59462 1999 GQ ₄₅	4.598	0.96	2 W	60558 Echeclus	26.802	0.24	2
59489 1999 JQ ₂	5.455	0.54	2 W	60569 2000 EH ₁₁₂	15.152	0.17	2 W
59490 1999 JD ₄	18.8363	0.90	3-	60570 2000 ET ₁₁₃	3.914	0.23-0.28	2 W
59491 1999 JO ₄	3.113	0.15	2 W	60584 2000 EW ₁₃₂	2.927	0.10	1 W
59493 1999 JG ₅	57.4	0.90	3- TO	60589 2000 EU ₁₃₉	10.177	0.49	2 W
59499 1999 JP ₈	5.017	0.30	2 W	60601 2000 EQ ₁₅₇	19.670	0.47	2 W
59506 1999 JD ₁₁	4.024	0.69	2 W	60621 2000 FE ₈			HNB
59528 1999 JK ₂₄	4.21	0.65	3- W	60636 2000 FH ₃₀	3.908	0.28	2 W
59530 1999 JU ₂₄	3.005	0.18	2 W	60637 2000 FX ₃₀	3.23	0.21	1 W
59555 1999 JE ₄₁	5.39	0.53	2 W	60646 2000 FJ ₃₉	6.08	0.71	3 W
59573 1999 JK ₄₉	7.013	0.64-0.71	2 W	60679 2000 GE ₂₄	5.544	0.74-0.87	2 W
59575 1999 JB ₅₁	67.312	0.73	2 W	60696 2000 GQ ₄₃	7.849	0.67	2 W
59585 1999 JV ₅₅	5.08	0.63	2+ W	60705 2000 GU ₅₅	3.57	0.48	3-

MINOR PLANET LIGHTCURVE PARAMETERS

Planet				Planet						
Planet	Period	Variation	Note	Planet	Period	Variation	Note			
60716	2000 GD ₆₅	1.9529	0.24-0.29	3	62410	2000 SN ₁₇₈	76.736	0.49	2	W
60802	2000 HK ₁₅	5.192	0.38	2	62412	2000 SY ₁₇₈	3.33	0.45	3-	W
60816	2000 HO ₃₄	5.65	0.68	2+	62468	2000 SA ₂₁₄	11.971	0.97	2	W
60844	2000 HF ₆₂	5.11	0.69	2+	62565	2000 SU ₂₇₂	3.34	0.66	3	W
60853	2000 HZ ₆₅	12.97	0.46	2	62575	2000 SL ₂₇₈	90.573	0.65	2	W
60864	2000 HM ₇₅	3.385	0.26	2	62595	2000 SW ₃₀₆	67.175	0.54	2	W
60866	2000 HM ₇₉	3.866	0.33	2	62606	2000 SK ₃₂₅	32.007	0.87-1.15	2	W
60896	2000 JB ₂₃	22.584	0.28	2	62651	2000 SB ₃₆₄	6.147	0.49	2	W
60943	2000 JV ₅₅	5.278	0.27	2	62670	2000 TK ₈	2.94	0.76	1	W
60949	2000 JM ₆₁	185.337	0.08	1	62694	2000 TV ₂₄	5.598	0.31	2	W
60957	2000 JD ₇₁	8.101	0.59	2	62715	2000 TR ₄₃	4.036	0.38	2	W
60984*	2000 KQ ₁₃	3.390	0.43	2+	62731	2000 TO ₅₉	7.291	0.55	2	W
61000	2000 KD ₃₁	5.064	0.24	2	62734	2000 TX ₆₀	3.983	0.21	2	W
61027	2000 KP ₅₃	7.816	0.38	2	62781	2000 UE ₂₃	28.94	1.1	NA	W
61036	2000 KC ₅₉	6.617	0.71	2	62828	2000 UN ₅₃	11.0	0.33	2	W
61057	2000 KD ₇₆	14.538	0.91	2	62842	2000 UF ₆₃	7.94	0.79	1	DAW
61140	2000 NR ₅	3.2099	0.41	3	62850	2000 UC ₇₂	17.389	0.27	2	W
61195	Martinoli	3.191	0.37-0.44	2	62853	2000 UO ₇₆	129.300	0.88	2	W
61207	2000 OZ ₇	3.921	0.15	2	62854	2000 UW ₇₆	14.7	0.85	2-	W
61213	2000 OK ₁₀	3.814	0.18	2	62872	2000 UC ₈₇	21.131	0.28	2	W
61233	2000 ON ₁₅	8.89	0.13	2	62887	2000 UX ₉₅	3.858	0.51	2	W
61238	2000 OF ₁₇	4.169	0.79	2	62925	2000 VE ₁₄	14.737	0.48	2	W
61259	2000 OG ₂₆	6.360	0.26	2	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	2	NA
61279	2000 OF ₃₅	2.57	0.47	2	63062	2000 WL ₁₁₈	7.334	0.64	2	W
61280	2000 OH ₃₅	6.449	0.38-0.50	2	63098	2000 WC ₁₄₆	6.215	0.66	2	W
61303	2000 OY ₄₇	4.62	0.79	1+	63110	2000 WQ ₁₅₈	3.584	0.26	2	W
61327	2000 OR ₅₇	6.71	0.35	2	63143	2000 XS ₁	2.586	0.32	2	W
61352	2000 PY ₉	8.832	0.05	1	63148	2000 XQ ₁₉	26.979	0.20	2	W
61358	2000 PK ₁₂	2.57	0.15	2-	63158	2000 YA ₄	12.80	0.66	2	W
61378	2000 PU ₂₈	4.69	0.61-0.90	2+	63166	2000 YW ₁₇	9.952	0.66	2	W
61388	2000 QA ₃	8.315	0.21	2	63195	2000 YJ ₁₂₀	7.113	0.56	2	W
61397	2000 QF ₅	6.94	0.64-0.67	3	63201	2000 YH ₁₂₉	6.846	0.64	2	W
61421	2000 QU ₁₄	4.87	0.71	2	63213	2001 AY ₁₈	6.44	0.63	2	W
61429	2000 QF ₁₇	21.620	0.38	2	63235	2001 BV ₂₀	4.49	0.34-0.37	2	W
61445	2000 QF ₂₅	10.5	0.40-0.50	2	63239*	2001 BD ₂₅	60.075	0.52-0.54	2+	HW
61461	2000 QA ₃₁	12.2	0.62	2	63241	2001 BJ ₂₆	1.21	1.21	I	W
61479	2000 QH ₃₉	4.89	0.62-0.74	3-	63260	2001 CN	8.76	0.79	3-	W
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	63271	2001 CN ₃₄	5.704	0.25	N	W
61599	2000 QR ₉₁	2.296	0.18	2	63287	2001 DT ₇₉	17.682	0.10		W
61610	2000 QK ₉₅	64.499	0.77	2	63311	2001 FD ₂₄	8.443	0.97	2	W
61626	2000 QA ₁₀₂	5.165	0.43	2	63368	2001 HQ ₇	2.84	0.37	1+	W
61630	2000 QP ₁₀₂	5.135	0.58	2	63376	2001 HA ₃₈	9.439	0.14	NA	W
61631	2000 QX ₁₀₂	4.038	0.20-0.22	2	63410	2001 KQ ₃₉	6.967	0.49	2	W
61652	2000 QO ₁₁₂	3.367	0.07	2	63427	2001 MB	3.168	0.09	1	W
61675	2000 QQ ₁₂₂	7.181	0.50	2	63429	2001 MH ₅	9.221	0.70-0.78	2	W
61679	2000 QH ₁₂₄	13.71	0.40	2	63432	2001 MY ₁₄				HNW
61717	2000 QU ₁₄₂	3.16	0.52-0.59	3-	63433	2001 MT ₁₇	4.448	0.34	2	W
61750	2000 QD ₁₅₇	331.564	0.84	2	63440	2001 MD ₃₀	3.29687	0.13-0.18	3	W
61774	2000 QV ₁₇₁	9.127	0.67-0.76	2	63444	2001 ND ₈	7.087	0.25	2	W
61791	2000 QV ₁₈₂	3.475	0.25	2	63459	2001 OT ₇	4.781	0.54	2	W
61830	2000 QA ₁₉₆	4.813	0.53	2	63475	2001 OB ₃₂	12.47	0.22	2	W
61888	2000 QO ₂₂₀	60.391	0.52	2	63485	2001 OO ₄₉	14.664	0.52	2	W
61905	2000 QF ₂₃₀	7.11	0.24	1+	63486*	2001 OH ₅₅	>24.	>0.1	W	W
61907	2000 QK ₂₃₀	6.44	0.65	2+	63508	2001 QQ ₈₁	3.63	0.2	2	A
61945	2000 RO ₁₃	30.154	0.87	2	63513	2001 OV ₉₆	7.886	0.60	2	W
61983	2000 RN ₃₀	9.909	0.56	2	63522	2001 PP	7.33	0.84	1	W
62012	2000 RJ ₄₁	4.01		N	63537	2001 PS ₃₃	4.101	0.40	2	W
62018	2000 RV ₄₂	12.639	0.10	1	63548	2001 PD ₅₈	3.800	0.40	2	W
62043	2000 RH ₆₅		0.81	W	63573	2001 QG ₂₃	2.20	0.15	2	W
62071	Voegtli	15.604	0.45	2	63578	2001 QD ₂₈	7.483	0.39-0.47	2	W
62074	2000 RL ₇₉	18.808	0.24-0.25	2	63614	2001 QF ₇₇	2.836	0.14	2	W
62110	2000 RX ₉₇	4.757	0.71	2	63617	2001 QO ₇₈				HNW
62112	2000 RM ₉₉	7.038	0.54-0.73	2	63628	2001 QN ₈₀	16.852	0.59	2	W
62117	2000 RC ₁₀₂	13.5	0.09	2	63633	2001 QR ₈₄	5.2	0.18	2-	W
62122	2000 RS ₁₀₂	2.691	0.10	1	63634	2001 QU ₈₆	3.46	0.63	2-	W
62128	2000 SO ₁	6.706	0.45	3-	63660	2001 QV ₁₁₉	14.846	0.21-0.47	2	W
62160	2000 ST ₂₅	14.059	0.26	2	63679	2001 QN ₁₄₅	3.78	0.56-0.65	2	W
62209	2000 SF ₆₁	7.56	0.34	2	63702	2001 QK ₁₈₂	4.66	0.14	2	W
62212	2000 SA ₆₂	10.2708	0.23-0.46	3	63712	2001 QH ₂₀₀	14.620	0.33	2	W
62213	2000 SL ₆₃	3.68	0.35	2	63728	2001 QW ₂₃₇	6.00	0.17	2	W
62218	2000 SA ₆₅	20.138	0.39-0.45	2	63730	2001 QF ₂₃₉	4.320	0.40-0.43	2	W
62298	2000 SK ₁₁₆	84.864	0.51	2	63736	2001 QB ₂₄₉	4.202	0.43	2	W
62325	2000 SC ₁₂₄	7.74	0.17	2	63802	2001 RV ₂₈				HNW
62340	2000 SO ₁₃₀	128.022	0.62	2	63827	2001 RP ₇₁				W
62348	2000 SB ₁₄₂	7.889	0.58	2	63829	2001 RM ₇₂	18.64	0.51	1	DAW
62379	2000 SA ₁₅₅	4.391	0.30	2	63844	2001 RK ₈₀	3.261	0.41-0.59	2	W
62408	2000 SU ₁₇₆	3.197	0.17	3	63851	2001 RH ₈₇	2.672	0.47	2	W
62409	2000 SR ₁₇₇	4.398	0.71	2	63894	2001 SN ₅	8.57	0.60	2	W

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Planet	Period	Variation	Note	Planet	Period	Variation	Note				
63913	2001 SG ₃₂	8.314	0.73-0.89	2	W	65489	Ceto	4.43	0.08	2	B
63923	2001 SV ₄₁	8.759	0.34	2	W	65507	4151 P-L	7.510	0.10	1	W
63968	2001 SG ₇₁	3.19	0.60-0.61	3	W	65510	4241 P-L	9.295	0.50	2	W
63987	2001 SP ₁₀₆	7.74	0.70	2	W	65542	1143 T-1	13.170	0.08	1	W
64020	2001 SN ₁₅₂				HNW	65597	3047 T-3	7.6	0.14	2-	A
64036	2001 SO ₁₉₀	11.29	0.64	2	W	65619	4218 T-3	6.40	0.33	2	W
64107	2001 TK ₈	68.5	1.31	2	T?	65637	Tsniimash	220.	0.90	3	T
64135	2001 TM ₃₂	38.144	0.34	2	W	65679*	1989 UQ	7.748	0.25-0.27	3-	
64175	2001 TT ₆₁	4.68	0.36	2	W	65706	1992 NA	6.992	0.37	2	
64178	2001 TO ₆₃	3.73	0.38-0.40	3-	W	65715	1992 WV ₁	5.89	0.13	1+	W
64198	2001 TK ₇₇	2.51	0.47	1+	W	65717	1993 BX ₃	20.463	0.91	2	TO
64230	2001 TC ₁₁₇	5.086	0.41	2	W	65719	1993 FY ₁₇	7.18	0.83-0.96	2	W
64246	2001 TC ₁₆₀	4.101	0.21-0.24	2	W	65733	1993 PC	4.184	0.73-0.97	3-	
64270	2001 TA ₁₉₇		1.25		I	65736	1993 QH ₇	7.16	0.45	2	W
64289	Shihwingching	2.67	0.27	3-	W	65739	1993 SG ₁₃	2.8	0.40	2-	
64292	2001 UF ₁₃	15.438	0.64	2	W	65765	1994 UR ₁	8.451	0.76	2	W
64301	2001 UN ₁₉	6.51	1.07	2	W	65784	Naderayama	6.592	0.10		N
64372	2001 UQ ₁₁₃	9.60	0.26	2	W	65795	1995 WQ ₂₇	2.76	0.23	2	W
64379	2001 UG ₁₂₃	12.82	0.60	2	W	65803	Didymos	2.2593	0.08-0.10	3	p B
64387	2001 UW ₁₄₄		0.55		W	65821	De Curtis	6.44	0.71	2	W
64390	2001 UY ₁₄₉		1.5		I	65877	1997 XK ₁	2.979	0.13	2	W
64391	2001 UF ₁₅₀	6.85	0.80	2	W	65909	1998 FH ₁₂	3.		2	R
64392	2001 UL ₁₅₀	4.379	0.84	2	W	65926	1998 FN ₅₅	2.891	0.10	1	W
64419	2001 UG ₁₈₆	14.33	0.48	2	W	65966	1998 HH ₈	4.363	0.10	1	W
64480	2001 VG ₄₅	S 6.49717			p Ns	65975	1998 HV ₄₆	19.762	0.49	2	W
64530	2001 VF ₁₁₀	7.458	0.30-0.35	2	W	65976	1998 HF ₅₁	10.743	0.76	2	W
64572	2001 WA ₃₉	4.543	0.66	2	W	65978	1998 HS ₉₈	2.795	0.32	2	W
64588	2001 XX ₃	5.8288	0.83	3		65991	1998 KL ₃₆	5.007	0.43	2	W
64679	2001 XU ₆₈	5.59	0.26	2-		65994	1998 KE ₅₃				HNW
64706	2001 XH ₉₀	7.11	0.93	2	W	66008	1998 QH ₂	7.09	0.13	2+	
64707	2001 XA ₉₁	53.970	0.53	2	W	66015	1998 QW ₂₅	10.532	0.28	2	W
64772	2001 XY ₁₈₀	3.942	0.76	2	W	66037	1998 QD ₇₄	4.860	0.30	2+	
64778	2001 XL ₁₈₉	3.81	0.21	1	W	66039	1998 QS ₇₄	6.62	0.25	2+	W
64787	2001 XH ₂₀₀	2.84	0.30	3-		66063	1998 RO ₁	2.4924	0.13-0.16	3	p B
64792	2001 XL ₂₀₆	8.934	0.36	2	W	66067	1998 RM ₁₉	10.32	0.49	2	W
64796	2001 XM ₂₀₇	8.731	0.48	2	W	66068	1998 RG ₂₆	4.232	0.11	2	W
64801	2001 XH ₂₁₀	19.020	0.39	2	W	66076	1998 RD ₅₃	S 8.93855			p Ns
64807	2001 XD ₂₁₃	6.53	0.41	3-	W	66092	1998 SD	448.	0.42	2	TO
64837	2001 YE ₂	3.495	0.39	2	W	66103	1998 SJ ₂₄	9.380	0.61	2	W
64889	2001 YA ₇₆	5.71	0.61	2	W	66146	1998 TU ₃	2.375	0.07-0.15	3	
64897	2001 YX ₈₁	5.30	0.12	1	W	66187	1998 XS ₇₃	31.034	0.55	2	W
64907	2001 YT ₈₉	4.294	0.80	2	W	66189	1998 XA ₉₇	7.88	0.39-0.50	3	W
64918	2001 YB ₉₉	5.55	0.34-0.36	2	W	66190	1998 YX ₅	25.778	0.15	2	W
64939	2001 YP ₁₁₆	32.956	0.49	2	W	66191	1998 YS ₆	4.19	0.36	2	W
64941	2001 YJ ₁₁₈	9.38	0.53-0.55	3-	W	66193	1999 AF ₂₂	8.00	0.26	2	
64963	2001 YP ₁₄₄	137.197	0.64-0.65	2	W	66201	1999 BC ₂₀	6.760	0.09	1	W
64995	2002 AV ₅₇	5.08	0.40	2	W	66234	1999 CZ ₁₅₇	2.929	0.38	2	W
65019	2002 AC ₉₉	7.700	0.83	2	W	66251	1999 GJ ₂	2.4621	0.10-0.13	3	
65025	2002 AS ₁₀₆	10.689	0.28	2	W	66295	1999 JC ₂₉	5.551	0.59	2	W
65056	2002 AH ₁₇₀	4.252	0.62	2	W	66308	1999 JX ₄₀	18.026	0.32	2	W
65068	2002 AK ₁₈₆	8.763	0.83	2	W	66328	1999 JK ₅₈	32.682	0.25	2	W
65108	2002 CR ₃₃	10.854	0.55	2	W	66335	1999 JZ ₆₁	12.9620	0.47	3	
65109	2002 CV ₃₆	9.402	0.77-0.80	2	W	66340	1999 JX ₆₅	>62.	>1.		HNW
65116	2002 CH ₅₁	15.199	0.27-0.32	2	W	66368	1999 JP ₉₈	97.219	0.49	2	W
65122	2002 CB ₅₉	4.092	0.47	2	W	66372	1999 JV ₁₁₄	8.02	0.60-0.69	3	W
65155	2002 CP ₁₄₀	4.78	0.70	2	W	66391	1999 KW ₄	2.7650	0.12	3	p B
65191	2002 CR ₂₅₇	5.46	0.62	2	W	66419	1999 NR ₁₃	56.71	0.80-0.80	3	
65200	2002 CL ₂₉₄	2.4206	0.48		NA	66468	1999 RL ₁₇	63.454	0.43-0.79	2	W
65203	2002 DU	6.518	0.70	2	W	66491	1999 RG ₅₄	2.868	0.39	2	W
65210*	Stichius	35.12	0.35-0.41	2+	HW	66524	1999 RQ ₁₀₂	11.050	0.80-1.10	2	W
65223*	2002 EU ₃₄	260.	0.34-0.44	2+	HW	66527	1999 RD ₁₀₄	5.008	0.48	2	W
65225	2002 EK ₄₄	13.43	0.85	2	I	66545	1999 RJ ₁₂₀	14.8	0.79	2-	W
65227*	2002 ES ₄₆	7.066	0.07-0.13	1	HW	66583*	Nicandra	6.457	0.07	2	
65240*	2002 EU ₁₀₆	230.	0.09-0.22	1	HW	66584	1999 RM ₁₆₁	9.06	0.11	2+	
65242	2002 EW ₁₁₅	5.168	0.39	2	W	66595	1999 RR ₁₇₈	5.698	0.66-0.77	2	W
65257*	2002 FU ₃₆	17.83	0.50-0.53	3-	HW	66625	1999 RE ₂₀₅	13.128	0.39-0.44	2	W
65264	2002 GW ₁₆	6.218	0.30	2	W	66652	Borasisi	<0.05			HB
65270	2002 GC ₃₈	9.136	0.67	2	W	66678	1999 TR ₂₈	5.449	0.45-0.61	2	W
65276	2002 GR ₇₈	8.238	0.69	2	W	66718	1999 TU ₁₀₄	12.80	0.77	2-	DAW
65287	2002 HL ₁₁	2.924	0.23	2	W	66722	1999 TC ₁₀₇	9.664	0.35-0.58	2	W
65301	2002 JP ₄₈	4.19	0.84	1+	W	66732	1999 TW ₁₁₁	8.55	0.60-0.70	2+	W
65312	2002 JP ₇₆	18.145	0.60	2	W	66738	1999 TJ ₁₂₀	9.90	0.92	3-	W
65342	2002 NL ₁₃	10.91	0.50	1	W	66742	1999 TP ₁₂₃	12.702	0.23	2	W
65345	2002 NF ₁₉	14.148	0.35	2	W	66759	1999 TU ₁₈₅	3.209	0.29	2	W
65384	2002 PC ₁₃₆	50.	0.3	1	W	66764	1999 TD ₁₉₀	12.80	0.26	2	W
65389	2002 RF ₁₂		1.02		I	66765	1999 TJ ₁₉₁	7.473	0.82	2	W
65395	2002 RY ₆₃	15.48	0.54	2	W	66775	1999 TS ₂₂₀	138.288	0.49	2	W
65407	2002 RP ₁₂₀	200.	0.6	2	TO	66807	1999 TD ₂₈₈	3.920	0.70	2	W
65433	2002 TX ₂₃₈	6.5888	0.54-0.72	3		66824	1999 UM ₂₆	9.681	0.27	2	W
65465	2002 XQ ₂₀	3.63	0.60	3-	W	66826	1999 UX ₃₆	5.280	0.53	2	W

MINOR PLANET LIGHTCURVE PARAMETERS

Planet	Period	Variation	Note	Planet	Period	Variation	Note
66832 1999 <i>UE</i> ₄₅	6.5	0.16	2	68339 2001 <i>KR</i> ₂₄	5.472	0.60	2 W
66850 1999 <i>VX</i> ₈	9.495	0.41	2 W	68346* 2001 <i>KZ</i> ₆₆	4.987	0.35-0.77	3
66868 1999 <i>VS</i> ₄₇	6.23	0.35	2 W	68348* 2001 <i>LO</i> ₇	3.3313	0.08-0.30	3
66889 1999 <i>VW</i> ₇₈	10.7	0.07	1+	68350 2001 <i>MK</i> ₃	3.273	0.17-0.20	3
66904 1999 <i>VA</i> ₁₆₀	3.054	0.17	2 W	68404 2001 <i>QX</i> ₁₀₈	9.951	0.16	2 W
66958 1999 <i>XO</i> ₂₃	3.370	0.08	1 W	68410 Nichols	6.912	0.48	2 W
66969 1999 <i>XW</i> ₅₄	5.75	0.22	2- W	68435* 2001 <i>RF</i> ₈₁	6.5	0.82	2+
66998 1999 <i>XY</i> ₁₁₃	2.486	0.08	1 W	68480 2001 <i>TQ</i> ₄₉	2.6982	0.40	NA
67008 1999 <i>XD</i> ₁₂₂	4.123	0.35	2 W	68495 2001 <i>UF</i> ₂₁	6.459	0.83	2 W
67017 1999 <i>XV</i> ₁₃₂	11.018	0.27	2 W	68506 2001 <i>UW</i> ₁₂₁	4.864	0.83	2 W
67087 2000 <i>AL</i> ₅₁	17.7	0.50	2 HW	68518 2001 <i>VM</i> ₁₄	7.16	0.12	2 W
67158 2000 <i>AX</i> ₁₉₉	8.893	0.66	2 W	68537 2001 <i>VC</i> ₁₂₃	2.997	0.16	3
67175 2000 <i>BA</i> ₁₉	275.	0.25	2+ B?	68547 2001 <i>XW</i> ₂₉	36.7	0.60	3- T+
67209 2000 <i>DN</i> ₂₆	3.767	0.35-0.40	2 W	68553 2001 <i>XF</i> ₆₈	3.13	0.22	2+
67244 2000 <i>EH</i> ₅₈	11.579	0.40-0.48	2 W	68711 2002 <i>CV</i> ₂₄₄	4.494	0.64	2 W
67255* 2000 <i>ET</i> ₁₀₉	3.70	0.27	2	68735 2002 <i>ET</i> ₂₆	16.228	0.28	2 W
67298 2000 <i>GD</i> ₉₁	7.685	0.61	2 W	68744 2002 <i>EV</i> ₄₃	7.451	0.30	2 W
67299 2000 <i>GS</i> ₉₅	28.439	0.36	2 W	68806 2002 <i>GR</i> ₄₀	5.764	0.21	2 W
67327 2000 <i>HD</i> ₇₆	4.582	0.11	2 W	68825 2002 <i>GH</i> ₈₁	9.395	0.64-0.65	2 W
67354 2000 <i>KM</i> ₁	5.76	0.52	2-	68905 2002 <i>JZ</i> ₁₀₄	4.23	0.14	N
67357 2000 <i>KS</i> ₁₅	8.35	0.82	2 W	68918 2002 <i>KZ</i> ₉	7.775	0.08	1 W
67377 2000 <i>OW</i> ₁	6.44	0.16	2 W	68927 2002 <i>NB</i> ₂₈	6.988	0.50	2 W
67393 2000 <i>OX</i> ₅₈	15.660	0.51-0.58	2 W	68950 2002 <i>QF</i> ₁₅	47.0	>0.35	2
67395 2000 <i>PR</i>	2.061	0.07	1 W	68969 2002 <i>RW</i> ₁₀₁	5.394	0.73	2 W
67404 2000 <i>PG</i> ₂₆	5.398	0.66-0.70	3 p	69016 2002 <i>UX</i> ₃₂	4.084	0.52-0.69	2 W
67413 2000 <i>QK</i> ₅₀	10.969	0.90	2 W	69018 2002 <i>VH</i> ₂₄	7.498	0.83	2 W
67432 2000 <i>QN</i> ₁₁₂			HNW	69026 2002 <i>VL</i> ₉₃	288.075	0.63	2 W
67453 2000 <i>QB</i> ₁₇₂	3.071	0.08	1 W	69068 2003 <i>AO</i> ₃₂	2.87	0.13	2 W
67466 2000 <i>QJ</i> ₂₁₇	3.15	0.55-0.56	2+ W	69076 2003 <i>AC</i> ₅₃	4.829	0.63	2 W
67474 2000 <i>RL</i> ₇	2.601	0.40	2 W	69081* 2003 <i>AZ</i> ₆₄		0.15	N
67493 2000 <i>RR</i> ₂₇	7.005	0.86	2 W	69092 2003 <i>BQ</i> ₂₅	6.347	0.10	1 W
67496 2000 <i>RK</i> ₃₁	7.650	1.02	2 W	69117 2003 <i>EX</i> ₂	4.74608		p Ns
67500 2000 <i>RM</i> ₄₃	2.973	0.29	2 W	69142 2003 <i>FL</i> ₁₁₅	7.389	0.53-0.56	3
67515 2000 <i>RN</i> ₆₂	17.640	0.57	2 W	69216 1108 <i>T-3</i>	13.880	0.48	2 W
67525* 2000 <i>RW</i> ₈₃	16.	>0.3	2-	69228 Kameronberg	23.384	0.63	2 W
67529 2000 <i>RQ</i> ₉₀	5.562	0.38	2 W	69230 Hermes	13.894	0.06-0.08	3 B
67539 2000 <i>SK</i> ₄	3.39	0.92	1 W	69241 1979 <i>MX</i> ₃	5.569	0.09	1 W
67551 2000 <i>SF</i> ₅₇	5.516	0.67	2 W	69245 Persiceto	6.271	0.67	2 W
67569 2000 <i>SN</i> ₁₀₁	9.517	0.46	2 W	69253 1981 <i>EX</i> ₃₅	10.967	1.00	2 W
67577 2000 <i>SB</i> ₁₁₂	4.449	0.09	1 W	69262 1986 <i>PV</i> ₆	4.256	0.61	2 W
67578 2000 <i>SO</i> ₁₁₂	156.584	0.89	2 W	69298 1992 <i>DR</i> ₉	11.03	0.28	2 W
67592 2000 <i>SD</i> ₁₃₈	11.698	0.86	2 W	69305 1992 <i>EJ</i> ₁₄	3.318	0.27	2 W
67622 2000 <i>SJ</i> ₁₇₆	2.889	0.05	1 W	69317* 1993 <i>FB</i> ₂₀	106.25	1.50	3-
67631 2000 <i>ST</i> ₂₀₂	9.961	0.72	2 W	69342 1993 <i>TT</i> ₁₉	10.878	0.67	2 W
67635 2000 <i>SE</i> ₂₁₁	46.809	0.94	2 W	69346 1993 <i>TV</i> ₃₂	41.404	0.69	2 W
67662 2000 <i>SF</i> ₂₆₈	8.934	0.73	2 W	69350 1993 <i>YP</i>	31.79	0.45-0.95	2 AT?
67681 2000 <i>SH</i> ₂₉₃	19.847	0.57	2 W	69354 1994 <i>CZ</i> ₂	9.304	0.81	2 W
67713 2000 <i>UF</i> ₁	6.808	0.67	2 W	69377 1994 <i>WJ</i> ₃	4.262	0.28	2 W
67721 2000 <i>US</i> ₁₄	3.648	0.36	2 W	69406 1995 <i>SX</i> ₄₈	4.49	0.10-0.19	3 B?
67742 2000 <i>UP</i> ₃₄	4.718	0.29-0.49	2 W	69410 1995 <i>UB</i> ₃	6.81	0.78	3-
67746 2000 <i>UG</i> ₄₀	5.015	0.40	2 W	69420 1995 <i>YA</i> ₁	186.944	0.70	2 W
67751 2000 <i>UF</i> ₄₈	3.3	0.26-0.36	2-	69437 1996 <i>KW</i> ₂	3.64	0.08	1
67777 2000 <i>UH</i> ₈₁	12.407	0.10	1 W	69452* 1996 <i>TL</i> ₅	9.80	0.32	2 W
67786 2000 <i>UX</i> ₉₄	4.044	0.09	1 W	69453 1996 <i>TG</i> ₁₁	6.121	0.27	2 W
67792 2000 <i>UD</i> ₁₀₂	5.701	0.08	1 W	69459 1996 <i>TX</i> ₆₂	15.532	0.65	2 W
67847 2000 <i>WX</i> ₆	2.473	0.13	2 W	69460 Christibarnard	6.388	0.49	2 W
67858 2000 <i>WX</i> ₂₀	11.756	0.39-0.40	2 W	69487 1997 <i>AZ</i> ₂	5.594	0.18	2 W
67909 2000 <i>WJ</i> ₉₈	13.567	0.38	2 W	69508 1997 <i>ET</i> ₂	48.702	0.22	2 W
67917 2000 <i>WU</i> ₁₀₉		0.98	W	69524* 1997 <i>GM</i> ₇	>48.	>1.3	W
67933 2000 <i>WR</i> ₁₂₇	6.652	0.74	2 W	69560 1997 <i>UW</i> ₁₄	3.50	0.41	2 W
67949 2000 <i>WY</i> ₁₅₉	4.42	0.82	2 W	69561 1997 <i>YD</i> ₂	43.64	0.97	2 W
67952 2000 <i>WH</i> ₁₆₆	13.611	0.74	2 W	69569 1998 <i>BU</i> ₁₂	9.969	0.45	2 W
67979 Michelory	5.335	0.18	2 W	69571 1998 <i>BJ</i> ₂₅	2.645	0.06	1 W
67983 2000 <i>XY</i> ₁₆	14.590	0.50-0.57	2 W	69595 1998 <i>FK</i> ₁₁	6.67	0.68	3-
67986 2000 <i>XJ</i> ₁₇	7.933	0.37	2 W	69596 1998 <i>FT</i> ₁₄	7.02	0.58	2 W
67997 2000 <i>XA</i> ₂₉	8.007	0.83	2 W	69597 1998 <i>FQ</i> ₁₅	7.62	0.81	2 W
68031* 2000 <i>YK</i> ₂₉	2.55	0.06	3-	69608 1998 <i>FJ</i> ₄₂	8.07	0.43	2 W
68045 2000 <i>YN</i> ₄₄	4.35	0.17	2+	69641 1998 <i>FQ</i> ₇₇	6.004	0.23	2 W
68063 2000 <i>YJ</i> ₆₆	2.1102	0.14	3- B	69653 1998 <i>FT</i> ₁₀₁	188.039	0.32	2 W
68081 2000 <i>YQ</i> ₉₇	12.97	0.42	2 W	69658 1998 <i>FC</i> ₁₁₄	2.73	0.21-0.23	2 W
68099 2000 <i>YX</i> ₁₁₈	4.018	0.71	2 W	69661 1998 <i>FZ</i> ₁₁₇	16.5	1.46	2-
68134 2001 <i>AT</i> ₁₈	7.105	1.13	3	69706 1998 <i>HJ</i> ₇₇	13.06	0.34	1 DAW
68181 2001 <i>BK</i> ₄₉	5.0366	0.82	3	69727 1998 <i>HD</i> ₁₄₅		0.61	W
68216* 2001 <i>CV</i> ₂₆	2.4290	0.12-0.36	3	69731 1998 <i>HP</i> ₁₅₂	53.651	0.60	2 W
68227 2001 <i>DZ</i> ₂₀	6.58	0.74	2 W	69753 1998 <i>ML</i> ₃₄	6.8	0.25	2-
68233 2001 <i>DY</i> ₃₅	3.66	0.21	2- W	69758 1998 <i>OP</i> ₁₀	5.823	0.59-0.69	2 W
68242 2001 <i>DW</i> ₅₉	4.897	0.09	1 W	69759 1998 <i>OT</i> ₁₀	>41.	>0.6	HNW
68267* 2001 <i>EA</i> ₁₆	3.5	0.20	1	69779 1998 <i>QZ</i> ₅₃	52.726	0.09	1 W
68278 2001 <i>FC</i> ₇	4.230	0.22	2	69802 1998 <i>RX</i> ₁₅	5.3	0.45-0.48	2 W
68313 2001 <i>FK</i> ₁₁₈	5.964	0.66	2 W	69805 1998 <i>RF</i> ₂₃	5.966	0.46-0.56	2 W

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Planet		Period	Variation	Note	Planet		Period	Variation	Note
69819	1998 RK ₆₂	5.829	0.51	2 W	71875	2000 VT ₄₈	4.64	0.27	2 W
69844	1998 SY ₂₂	3.341	0.39	2 W	71933	2000 WW ₆₁	3.37	0.11-0.13	2
69848	1998 SQ ₃₅	8.64	0.26	1 DAW	72007	2000 XM ₇	4.89	0.25	2
69853	1998 SP ₅₃	8.17	0.45	1+ HW	72061	2000 YX ₁₆			
69858	1998 SM ₅₇	93.169	0.37	2 W	72069	2000 YD ₂₉			HNW
69880	1998 SQ ₈₁	7.675	0.08	2+	72070	2000 YC ₃₃	13.966	0.08	1 W
69926	1998 TZ ₃₁	22.86	0.28	2 W	72096	2000 YA ₄₈			HNW
69934	1998 US ₁₃	25.112	0.46	2 W	72099	2000 YQ ₅₀	8.21	0.39	2+
69944	1998 UM ₃₅	5.581	0.66	2 W	72109	2000 YF ₅₅			HNW
69967	1998 VS ₄₉	7.44	0.86	1+ W	72121	2000 YT ₆₃	16.341	0.08	1 W
70030	Margaretmiller	4.3292	0.41-0.50	3 B?	72168	2000 YL ₁₀₇	4.03	0.49	3 W
70034	1999 CY ₃₅	16.269	0.47	2 W	72179	2000 YH ₁₁₃	2.99	0.31	2 W
70045	1999 DA ₅	14.178	0.50	2 W	72186	2000 YH ₁₁₈	10.031	0.10	1 W
70049	1999 GV ₃₅	4.889	0.85	2 W	72255	2001 AZ ₃₁	6.387	0.09	1 W
70050*	1999 GG ₄₄	3.142	0.33	3-	72290	2001 BQ ₁₅	5.6657	0.63-0.81	2 A
70069	1999 JT ₄₉	6.252	0.55-0.57	2 W	72295	2001 BO ₂₄	2.145	0.07	1 W
70078	1999 JU ₅₉	5.012	0.12	2 W	72302	2001 BD ₃₁	2.45	0.13	2-
70085	1999 JD ₆₈	4.950	0.71	2 W	72320	2001 BW ₄₇	2.30	0.16	2 W
70091	1999 JN ₉₃	>32.	>0.22	2	72352	2001 BK ₇₂	21.82	0.51	1 W
70126	1999 NT ₂	5.41	0.83	3-	72393	2001 CH ₁₈	4.9		N
70165	1999 NT ₄₉	6.69	0.17	2 W	72396	2001 CU ₂₀	8.0467	0.1	2
70169	1999 NX ₆₄	4.42	0.15	2-	72451	2001 DW ₅	8.21	0.93	2 W
70171	1999 OL ₂		0.17	N	72469	2001 DW ₂₇	13.33	0.56	2 W
70172	1999 OQ ₄	5.7394	1.10	3 W	72653	2001 FA ₄₅	7.33	0.67	2 W
70191	1999 RY ₁₁	8.97	0.35	2 W	72668	2001 FG ₅₁	7.27	0.94	3-
70199	1999 RL ₂₂	6.738	0.21	2 W	72675	2001 FP ₅₄	2.50	0.38	2
70202	1999 RR ₂₄	6.505	0.82	2 W	72693	2001 FS ₇₂	2.87	0.20	2
70214	1999 RU ₄₀	12.788	0.08	1 W	72713	2001 FQ ₈₆	11.90	0.69	2 W
70275	1999 RJ ₁₀₉	61.870	0.09	1 W	72717	2001 FA ₈₈	9.46	0.53	1 DAW
70296	1999 RZ ₁₂₇	4.923	0.09	1 W	72807	2001 GG ₅	3.28	0.36	1+
70297	1999 RG ₁₂₉	5.186	0.29	2 W	72823	2001 HO ₃	141.392	0.09	1 W
70299	1999 RM ₁₂₉	6.531	0.67	2 W	72904	2001 KM ₇₄	3.48	0.33	2 W
70301	1999 RZ ₁₃₀	9.561	0.33	2 W	72918	2001 RB ₁₃₄	6.15	0.41	2 W
70304	1999 RE ₁₃₃	41.617	0.47	2 W	73025	2002 ER ₇₄	4.956	0.10	1 W
70306	1999 RL ₁₃₄	7.550	0.58	2 W	73083	2002 GK ₁₅	6.76	0.76	2 W
70329	1999 RY ₁₆₃	5.234	0.73	2 W	73371	2002 KA ₁₃	9.6	0.27	N
70333	1999 RA ₁₆₈	9.449	0.62	2 W	73466	2002 OP ₅	5.61	0.38	2 W
70349	1999 RV ₁₈₀	9.180	0.42	2 W	73480	2002 PN ₃₄	8.45	0.18	2 A
70364	1999 RN ₁₉₄	2.165	0.05	1 W	73545	2003 OB ₃₁			W
70377	1999 RE ₂₁₁	2.222	0.06	1 W	73664	1981 EE ₃₄	6.15	0.33	2 W
70401	Davidbishop	4.794	0.50	2 W	73676	1988 CD ₅	58.240	0.09	1 W
70404	1999 RR ₂₄₅	17.378	0.78	2 W	73696	1991 RQ ₁₉	2.492	0.09	1 W
70410	1999 SE ₃	2.5895	0.13-0.14	3	73713	1992 RW ₆	3.68	0.13	2 W
70411	1999 SF ₃	2.8420	0.20	3	73721	1993 FZ ₁₄	11.29	0.28	2 W
70413	1999 SJ ₅	9.90	0.15	2 W	73727	1993 FT ₃₉	17.5	0.2	1 W
70478	1999 TN ₄₀	12.125	0.50	2 W	73745	1993 TH ₂₃			HNW
70517	1999 TU ₁₀₅	>12.	>0.2		73915	1997 GD ₄₃	8.58	0.96	1 DAW
70559	1999 TD ₁₄₃	6.446	0.09	1 W	73950	1997 TE ₁₃	13.71	0.27	2 W
70615	1999 TZ ₂₀₄		0.86	W	73964	1997 WK ₄₂	9.80	0.25	2 W
70662	1999 TR ₂₈₂	8.00	0.42	2 W	73987	1998 EA ₂		>0.15	
70740	1999 VG ₁₈	4.53	0.76	2 W	74022	1998 HG ₂	5.55	0.53	2 W
70741	1999 VO ₁₈	13.33	0.33	2 W	74032	1998 HR ₂₇			HNW
70799*	1999 VY ₅₅	3.4	0.23	2	74048	1998 HP ₁₂₁			HNW
70804	1999 VL ₆₂	6.58	0.75	2 W	74056	1998 KM ₉	17.4	0.5	2
70867	1999 VA ₁₅₀	3.79	0.68	2 W	74081	1998 OU ₁	46.1	0.23	2 TO
70918	1999 VY ₁₉₅	3.202	0.09	1 W	74096	1998 QD ₁₅	4.3	0.15	3-
70924	1999 VC ₂₀₅	3.93	0.23	2 W	74103	1998 QP ₃₁	6.19	0.11	2 W
70927	1999 VX ₂₁₀	6.6	0.60	2	74108	1998 QZ ₃₇	8.73	0.11	2 W
70970	1999 XH ₂₀	9.854	0.09	1 W	74155	1998 QK ₉₃	15.9680		Ns
71001	Natspasoc	3.15	0.18	2	74219	1998 RM ₇₈	5.7	0.41	2- ^p
71011	1999 XE ₄₅	S 4.69449		p Ns	74232	1998 ST ₂₆	3.14	0.22	2- W
71031	1999 XE ₆₈	20.187	0.39	2	74338	1998 VK ₁₅	7.480	1.02	3-
71039	1999 XZ ₇₃	3.23	0.42	2 W	74350	1998 VO ₅₄	8.56	1.1	2-
71145	1999 XA ₁₈₃	12.0	0.15	2-	74355	1998 WJ ₁₂	2.8	0.15	N
71184	1999 XJ ₂₁₇	4.40	0.69	2 W	74421	1999 AW ₂₄	3.66	0.30	2 W
71188	1999 XH ₂₂₄			HNW	74424	1999 BN	3.733	0.28	3
71266	2000 AC ₂₈	10.55	1.07	2 W	74446	1999 CT ₁₉	4.82	0.17	2 W
71314	2000 AW ₇₆	5.65	0.81	2 W	74464	1999 CA ₃₈	3.62	0.22	2 W
71366	2000 AU ₁₃₅	5.05	0.61	3 W	74551	1999 JY ₉₈	4.19	0.34	2+ W
71375	2000 AT ₁₄₁			HNW	74563	1999 MQ	3.93	0.16	2 W
71434	2000 AJ ₂₀₅	5.71	0.84	2 W	74567	1999 NP ₆	10.91	0.25	2 W
71441	2000 AR ₂₂₆	10.43	0.36	2 W	74573	1999 NB ₁₁	62.093	0.06	1 W
71447	2000 AY ₂₃₉	2.88	0.17	2-	74590	1999 OG ₂	33.409	0.65-0.86	3-
71493	2000 CF ₁₃	2.65	0.36	2 W	74605	1999 RL ₁₂	4.05	0.75	2 W
71544	2000 CD ₁₂₃			HNW	74639	1999 RF ₅₉	5.08	0.95	2 W
71559	2000 DU ₂₂		0.05	W	74642	1999 RJ ₆₁	7.471	0.85	3 W
71569	2000 DG ₄₀	2.74	0.52	2 W	74681	1999 RX ₁₁₅	3.908	0.08	1 W
71734	2000 LX ₉	6.27	0.20	2	74692	1999 RF ₁₃₄	2.241	0.10	1 W
71748	2000 QD ₁₈₂	2.313	0.07	1 W	74702	1999 RQ ₁₄₆			HNW
71765	2000 SU ₄	70.72	0.23	2	74737	1999 RK ₁₈₀	5.30	0.52	2 W

MINOR PLANET LIGHTCURVE PARAMETERS

Planet	Period	Variation	Note	Planet	Period	Variation	Note
74779 1999 <i>RF</i> ₂₄₁	6.189	0.80	3	75872 2000 <i>CK</i> ₂₄	3.80	0.42	2 W
74791 1999 <i>SW</i> ₆	6.81	0.68	2 W	75903 2000 <i>CQ</i> ₄₉	157.912	0.76	2 W
74822 1999 <i>TA</i> ₁₅	2.412	0.10	1 W	75910 2000 <i>CO</i> ₅₃	2.198	0.37	2 W
74823 1999 <i>TD</i> ₁₅	33.451	0.21	3-	75934 2000 <i>CR</i> ₇₅	3.717	0.32	2 W
74858 1999 <i>TU</i> ₈₈	2.48	0.12	1+ W	75950 2000 <i>CU</i> ₈₈	2.828	0.06	2 W
74885 1999 <i>TY</i> ₁₁₀	20.87	0.57	2 W	75959 2000 <i>CP</i> ₉₄		0.05	
74890 1999 <i>TW</i> ₁₁₆	4.62	0.45	1+ W	75974 2000 <i>CC</i> ₁₁₇	9.700	0.63	2 W
74909 1999 <i>TV</i> ₁₃₉	3.98	0.36	1+ W	75985 2000 <i>DY</i> ₂	4.4	0.6	2-
74910 1999 <i>TX</i> ₁₃₉	8.57	0.35	2 W	76014 2000 <i>DV</i> ₂₈	2.44	0.31	1 W
74994 1999 <i>TH</i> ₂₇₁			HNW	76023 2000 <i>DB</i> ₃₈			HNW
75011 1999 <i>UQ</i> ₁	2.800	0.12	2 W	76037 2000 <i>DA</i> ₅₀			HNW
75028 1999 <i>US</i> ₁₇	4.44	1.32	1 W	76038 2000 <i>DJ</i> ₅₁	15.360	0.82	2 W
75045 1999 <i>UK</i> ₄₃	2.282	0.08	1 W	76069 2000 <i>DS</i> ₇₇	9.098	0.68-0.83	2 W
75046 1999 <i>UM</i> ₄₃	2.895	0.08	1 W	76111 2000 <i>DK</i> ₁₀₆	5.30	0.09	2 W
75047 1999 <i>UD</i> ₄₄	6.065	0.59-0.64	2 W	76136 2000 <i>EF</i> ₁₂	6.064	0.53-0.57	2 W
75067 1999 <i>VN</i> ₁₂	21.243	0.68	2 W	76142 2000 <i>ER</i> ₁₃	5.500	0.70	2 W
75072 Timerskine	4.872	0.22	2 W	76168 2000 <i>EO</i> ₂₉	5.953	0.70	2 W
75077 1999 <i>VP</i> ₂₂			HNW	76170 2000 <i>EF</i> ₃₀	5.640	0.25	2 W
75079 1999 <i>VN</i> ₂₄	6.632	0.11-0.16	3-	76173 2000 <i>EE</i> ₃₂	3.11	0.27	2 W
75086 1999 <i>VU</i> ₂₈	20.802	0.09	1 W	76214 2000 <i>EV</i> ₆₄	9.27775		p Ns
75103 1999 <i>VL</i> ₄₉	3.257	0.31	2 W	76229 2000 <i>EK</i> ₇₅	151.936	0.70	2 W
75115 1999 <i>VR</i> ₅₈	3.157	0.18	2 W	76233 2000 <i>EL</i> ₇₈	3.54	0.27	1+ W
75129 1999 <i>VP</i> ₆₉	4.27	0.14	2- W	76272 De Jong	241.407	0.83	2 W
75151 1999 <i>VY</i> ₁₀₀	3.15	0.20	2 W	76294 2000 <i>EA</i> ₁₂₉	3.581	0.52-0.54	2 W
75157 1999 <i>VP</i> ₁₀₉	5.49	0.80	3 W	76325 2000 <i>EZ</i> ₁₄₅	8.455	0.69	2 W
75166 1999 <i>VH</i> ₁₂₄	2.92	0.48	1 W	76326 2000 <i>EV</i> ₁₄₇	4.028	0.47	2 W
75167 1999 <i>VF</i> ₁₂₈	10.27743		p Ns	76382 2000 <i>EM</i> ₁₉₈	2.823	0.08	1 W
75183 1999 <i>VB</i> ₁₆₀	16.110	0.71	2 W	76417 2000 <i>FW</i> ₁₈	4.35	0.34	2- W
75186 1999 <i>VX</i> ₁₆₀	6.36	0.63	3 W	76437 2000 <i>FD</i> ₂₉	10.373	0.26	2 W
75209 1999 <i>VM</i> ₁₉₂	6.440	0.36	2 W	76440 2000 <i>FY</i> ₃₀	8.036	0.64	2 W
75213 1999 <i>VD</i> ₂₀₂	2.446	0.09	1 W	76442 2000 <i>FO</i> ₃₁	6.669	0.84	2 W
75216 1999 <i>VV</i> ₂₁₃	12.259	0.49	2 W	76461 2000 <i>FH</i> ₄₄	3.088	0.41-0.46	2 W
75223 Wupatki	6.62	0.29-0.57	3 W	76470 2000 <i>FC</i> ₅₇	7.22	0.63-0.68	3 W
75235 1999 <i>WX</i> ₇	6.423	0.09	1 W	76471 2000 <i>FD</i> ₅₇	2.942	0.26	2 W
75277 1999 <i>XN</i> ₁₉	3.607	0.09	1 W	76554 2000 <i>GG</i> ₉₃	7.119	0.69	2 W
75278 1999 <i>XQ</i> ₁₉	7.196	0.58	2 W	76557 2000 <i>GB</i> ₉₅	7.967	0.46-0.48	2 W
75283 1999 <i>XH</i> ₂₃	42.535	0.74	2 W	76588 2000 <i>GK</i> ₁₄₂	6.869	0.55	2 W
75293 1999 <i>XQ</i> ₂₈	2.994	0.18	2 W	76594 2000 <i>GB</i> ₁₅₅	8.225	0.56	2 W
75295 1999 <i>XH</i> ₃₀	76	0.35	2- W	76614 2000 <i>GY</i> ₁₆₇	10.726	0.25-0.30	2 W
75297 1999 <i>XY</i> ₃₂	9.328	0.45	2 W	76616 2000 <i>GP</i> ₁₇₂	16.923	0.76	2 W
75300 1999 <i>XJ</i> ₃₄	3.921	0.18	2 W	76639 2000 <i>HP</i> ₁₅			W
75304 1999 <i>XT</i> ₃₆	5.796	0.75	2 W	76668 2000 <i>HA</i> ₄₅	9.50	0.63-0.65	2 W
75348 1999 <i>XF</i> ₆₄	4.916	0.47-0.54	2 W	76674 2000 <i>HC</i> ₅₈	6.774	0.63-0.69	2 W
75353 1999 <i>XL</i> ₆₉	114.664	0.30	2 W	76676 2000 <i>HH</i> ₆₂	6.36	0.64	2 W
75364 1999 <i>XZ</i> ₇₄	33.567	0.72	2 W	76708 2000 <i>HE</i> ₁₀₁	120.993	0.67	2 W
75366 1999 <i>XS</i> ₈₂	17.162	0.16	2 W	76715 2000 <i>JK</i> ₁₁	3.900	0.39	2 W
75393 1999 <i>XS</i> ₉₇	2.871	0.09	1 W	76717 2000 <i>JP</i> ₁₆	7.533	0.84	2 W
75403 1999 <i>XH</i> ₁₀₂	7.139	0.30	2 W	76734 2000 <i>JK</i> ₅₄			HNW
75422 1999 <i>XH</i> ₁₁₉	11.33	0.12	1 W	76768 2000 <i>KR</i> ₃₁	12.440	0.39	2 W
75423 1999 <i>XO</i> ₁₁₉	2.552	0.30	2 W	76772 2000 <i>KJ</i> ₄₇	22.178	0.61	2 W
75426 1999 <i>XJ</i> ₁₂₃	7.450	0.19	2 W	76781 2000 <i>KU</i> ₆₅	8.613	0.56	2 W
75431 1999 <i>XD</i> ₁₂₆	3.76	0.21	1+ W	76786 2000 <i>LT</i> ₉	180.070	0.78	2 W
75458 1999 <i>XS</i> ₁₄₇	8.624	0.55	2 W	76800 2000 <i>OQ</i> ₃₅	392.	1.4	3 TO
75482 1999 <i>XC</i> ₁₇₃	1234.171	0.69	2 W	76801 2000 <i>PF</i> ₂₄	8.806	0.23	2 W
75489 1999 <i>XO</i> ₁₇₈	8.70	0.65	2+ W	76814 2000 <i>QL</i> ₁₆₄	5.129	0.42	2 W
75492 1999 <i>XK</i> ₁₇₉	13.728	0.46	2 W	76815 2000 <i>QE</i> ₁₈₁	37.796	0.30	2 W
75495 1999 <i>XM</i> ₁₈₁	14.682	0.69	2 p	76818 2000 <i>RG</i> ₇₉	3.1664	0.14-0.15	3 B
75523 1999 <i>XX</i> ₂₀₆	25.504	0.74	2 W	76820 2000 <i>RW</i> ₁₀₅		0.91	I
75525 1999 <i>XQ</i> ₂₀₉	55.613	0.56	2 W	76834 2000 <i>SA</i> ₂₄₄	34.697	0.27	2 W
75528 1999 <i>XC</i> ₂₁₄	3.108	0.45	2 W	76836 2000 <i>SB</i> ₃₁₀	10.70	0.61	2 W
75555 Wanaszek	7.22	0.12	1 W	76841 2000 <i>TC</i> ₃₃	4.895	0.50-0.54	3
75561 1999 <i>YR</i> ₂₂	6.004	0.07	1 W	76857 2000 <i>WE</i> ₁₃₂	37.69	0.43	3-
75577 2000 <i>AD</i> ₁₁	2.323	0.15	2 W	76864 2000 <i>XR</i> ₁₃	3.89	0.15-0.16	3
75596 2000 <i>AA</i> ₂₃	3.06	0.31	2 W	76865 2000 <i>XW</i> ₃₈	5.14	0.31	1 DAW
75598 2000 <i>AY</i> ₂₃	3.05	0.28	2+ W	76867 2000 <i>YM</i> ₅	9.112	0.29-0.31	3
75605 2000 <i>AA</i> ₃₂	4.680	0.41	2 W	76873 2000 <i>YF</i> ₃₂	5.834	0.59	2 W
75609 2000 <i>AF</i> ₃₄	6.997	0.58	2 W	76874 2000 <i>YR</i> ₃₂	3.95	0.23	2 W
75640 2000 <i>AE</i> ₅₅	16.369	0.52-0.6	2 W	76894 2000 <i>YT</i> ₉₉			HNW
75648 2000 <i>AW</i> ₅₉	4.09	0.13	1 W	76898 2000 <i>YS</i> ₁₀₅	14.138	0.63	2 W
75653 2000 <i>AG</i> ₆₄		0.85	W	76918 2001 <i>AC</i> ₅	2.875	0.22-0.28	2 W
75679 2000 <i>AU</i> ₉₇	21.455	0.19-0.24	2 W	76924 2001 <i>AJ</i> ₂₁	23.020	0.10	1 W
75695 2000 <i>AK</i> ₁₀₆	8.152	0.25	2 W	76929 2001 <i>AX</i> ₃₄	36.2	0.19-0.19	2+ W
75717 2000 <i>AU</i> ₁₂₀	3.28	0.27	2 W	76944 2001 <i>BH</i> ₁₅	4.104	0.73	2 W
75722* 2000 <i>AB</i> ₁₂₈	>24.	>0.5	W	76947 2001 <i>BF</i> ₁₉	5.045	0.72	2 W
75738 2000 <i>AF</i> ₁₄₅	98.082	0.91	2 W	76995 2001 <i>BQ</i> ₇₅	2.707	0.09	1 W
75747 2000 <i>AX</i> ₁₅₃	6.38	0.28	2+ W	77003 2001 <i>CT</i> ₄	4.700	0.56	2 W
75751 2000 <i>AR</i> ₁₅₈	5.420	0.65	2 W	77010 2001 <i>CB</i> ₉	3.61	0.36	3-
75773 2000 <i>AC</i> ₁₉₆	5.746	0.64	2 W	77049 2001 <i>CH</i> ₄₈	2.596	0.08	1 W
75776 2000 <i>AC</i> ₁₉₈	5.348	0.82	2 W	77062 2001 <i>DA</i> ₁₉	7.522	0.75	2 W
75825 2000 <i>BX</i> ₁₆	5.672	0.74	2 W	77065 2001 <i>DU</i> ₂₀	8.548	0.59	2 W

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Planet	Period	Variation	Note	Planet	Period	Variation	Note				
77082	2001 DM ₃₃	45.498	0.68	2	W	78487	2002 RO ₅₉	3.279	0.46	2	W
77105	2001 DG ₆₉	40.949	0.38	2	W	78494	2002 RX ₆₃	6.08	0.64	2	W
77127	2001 DJ ₆₃	4.16	0.47	2+		78550	2002 RS ₁₂₈	12.325	0.68	2	W
77158	2001 EN ₁₅	5.19	0.48	1	W	78585	2002 SF ₁₂	4.631	0.58	2	W
77186	2001 FS ₉	32.112	0.52	2	W	78596	2002 SK ₂₁	28.509	0.67	2	W
77191	2001 FE ₁₁	5.133	0.09	1	W	78618	2002 TH ₅	3.229	0.47	2	W
77216	2001 FO ₂₄	150.	1.0	1+		78643	2002 TA ₄₂				HNW
77266	2001 FX ₅₁	3.24	0.17	2	W	78656	2002 TL ₇₃	8.023	0.64-0.73	2	W
77281	2001 FO ₆₃	3.98	0.24	1+	W	78657	2002 TS ₇₆	4.620	0.48-0.52	2	W
77292	2001 FN ₇₁	4.599	0.61	2	W	78673	2002 TP ₁₁₄	4.911	0.59	2	W
77311	2001 FL ₈₁	7.991	0.71	2	W	78698	2002 TD ₁₇₁	8.182	0.28	2	W
77313	2001 FY ₈₁	6.42	0.48	2	W	78714	2002 TX ₁₉₉	8.882	0.56	2	W
77357*	2001 FW ₁₂₅	2.6	0.26		N	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+	W	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	
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	2080 P-L	5.05	0.19	2	W
77677	2001 MA ₂₅	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		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+	W	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 SC 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-	W	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	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	0.19-0.27	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 QQ 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
78282	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-	W	79704	1998 SF ₉₀	6.40	0.67	2+	W
78337	2002 PG ₈₈	2.998	0.36	2	W	79721	1998 SE ₁₁₂	10.2	0.45	2-	W
78381	2002 PQ ₁₃₅	17.9	0.49	2	W	79738	1998 ST ₁₃₈	7.280	0.76	2	W
78388	2002 PT ₁₅₆	4.25	1.11	1	W	79782	1998 UN ₄₀	150.	0.2	1+	W
78404	2002 QG ₁₄	50.982	0.55	2	W	79799	1998 VU ₁₀	8.436	0.92	2	W
78417	2002 QE ₃₇	3.75	0.22	2-	W	79823	1998 VK ₅₄	40.838	0.33	2	W
78420	2002 QU ₄₀	4.90	0.55-1.10	2	p W	79898	1999 BD ₆	5.053	0.24	2	W
78468	2002 RL ₄₄	16.28	1.41	1	DAW	79904	1999 BO ₁₃	3.851	0.48	2	W
78476	2002 RQ ₅₀	8.823	0.41	2	W	79937	1999 CD ₇₃	10.020	0.35	2	W
78479	2002 RO ₅₂		0.66		W	79983	1999 DF ₉	6.65	0.40	2	A
78480	2002 RA ₅₃				HNW	79988	1999 EK ₁₀	7.333	0.41	2	W

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Planet	Period	Variation	Note	Planet	Period	Variation	Note
80044 1999 JN ₄₀	15.743	0.60	2 W	81386 2000 GT ₇₃	15.381	0.25	2 W
80049 1999 JV ₅₄	4.389	0.40-0.53	2 W	81409 2000 GO ₈₉	7.74	0.77	2 W
80055 1999 JL ₇₀	8.246	0.52-0.74	2 W	81443 2000 GV ₁₁₄	5.217	0.60	2 AW
80078 1999 JU ₁₁₅	5.235	0.26-0.27	2 W	81468 2000 GS ₁₃₇	3.638	0.60	2 W
80112 1999 RN ₆₁	4.92362		p Ns	81484 2000 GF ₁₅₃	11.937	0.07	1 W
80176 1999 UL ₃₈	10.79	0.30	2 W	81590 2000 HN ₄₉	26.170	0.70	2 AW
80180 1999 Elko	5.710	0.63	2 W	81628 2000 HF ₇₆	5.077	0.78	2 W
80186 1999 VD ₃₂	41.094	0.64	2 W	81645* 2000 HY ₈₁	4.950	0.80	3
80209 1999 VK ₈₉	3.018	0.43	2 W	81655 2000 HS ₈₆	5.529	0.53	2 W
80215 1999 VM ₁₁₁	6.439	0.87	2 W	81675 2000 JO	85.614	0.83	2 W
80218 1999 VO ₁₂₃	3.1451	0.21	3 B	81700 2000 JU ₁₉	2.507	0.24	2 W
80255 1999 WZ ₁₉	9.375	0.60	2 W	81713 2000 JC ₂₇	4.049	0.10	1 W
80275 1999 XY ₃₁	6.398	0.59	2 W	81740 2000 JA ₄₆	9.343	0.45	2 p
80276 1999 XL ₃₂	5.56	0.76-0.77	3-p W	81767 2000 JV ₆₅	6.536	0.58-0.65	2 W
80307 1999 XU ₇₁	6.089	0.61	2 W	81781 2000 JN ₇₄	11.455	0.53	2 W
80327 1999 XY ₈₉	4.178	0.48	2 W	81802 2000 KN ₆	8.49	0.50	2- W
80330 1999 XD ₉₂	44.744	0.59	2 W	81828 2000 KT ₄₄			HNW
80331 1999 XM ₉₂	9.151	0.68	2 W	81847 2000 KO ₅₈	4.881	0.65	2 W
80346 1999 XT ₁₁₄	3.48	0.13	2 W	81887 2000 LS ₂₂	3.474	0.28	2 W
80371 1999 XM ₁₅₄	5.128	0.76	2 W	81911 2000 NV ₉	6.95480		p Ns
80381 1999 XD ₁₆₀	2.61	0.13	2 W	81922 2000 NV ₂₂	12.150	0.37	2 W
80431 1999 XS ₂₂₇			HNW	81954 2000 PT ₁₇	3.57	0.37	2 W
80438 1999 XX ₂₄₉	4.682	0.32	2 W	81957 2000 QG ₁₄	7.27	0.81	2 W
80448 1999 YA ₁₇		0.65	W	81964 2000 QX ₃₅	4.019	0.33	2 W
80451 Alwoods		0.52	W	81975 2000 QH ₇₈	8.03	0.37	2+ W
80454 2000 AW ₃	6.746	0.64	2 W	81985 2000 QV ₁₂₂		0.59	W
80482 2000 AV ₃₃	8.066	0.07	1 W	82060 2000 WX ₈	2.7631	0.20-0.32	3
80509 2000 AE ₅₆	3.97	0.6 -0.68	2	82066 2000 XG ₁₅	11.23	0.15-0.19	2
80516 2000 AL ₅₉	5.89	0.10	2 W	82075 2000 YW ₁₃₄		<0.1	HB
80524 2000 AD ₆₃	19.879	0.32	2 W	82078 2001 AH ₄₆	19.57	0.41	3- W
80545 2000 AD ₈₅	3.110	0.16	2 W	82125 2001 FM ₈₂	2.554	0.64	2 W
80576 2000 AE ₁₂₀	2.73	0.21	2 W	82155 2001 FZ ₁₇₃		<0.06	
80582 2000 AY ₁₂₅	2.540	0.09	1 W	82158 2001 FP ₁₈₅		<0.06	
80583 2000 AL ₁₂₇	4.310	0.75	2 W	82163 2001 GA ₁₁	8.2	0.35	2
80587 2000 AU ₁₃₁	2.90	0.25	2 W	82203 2001 HH ₃₈	4.47	0.36	2 W
80636 2000 AV ₂₁₄	100.	3.0	1 W	82251 2001 KZ ₃	6.62	1.19	2 W
80672 2000 BU ₁₇	12.241	0.36-0.41	2 W	82262 2001 KG ₁₃	5.630	0.76	2 W
80678 2000 BR ₂₅	5.066	0.46	2 W	82315 2001 KF ₅₉	22.395	0.51	2 W
80704 2000 CM ₅	10.535	0.69	2 W	82333 2001 LF ₇	2.303	0.09	1 W
80706 2000 CL ₁₆	4.439	0.09	1 W	82355 2001 MY ₂	5.297	0.65	2 W
80714 2000 CR ₂₀	3.82	1.27	1 W	82363 2001 MF ₇	7.609	0.70	2 W
80730 2000 CM ₂₉	2.69	0.18	2 W	82371 2001 MM ₁₄	17.782	0.26	2 W
80760 2000 CY ₅₃	11.683	0.70-0.80	2 W	82384 2001 MV ₂₀	2.44	0.21	2 W
80762 2000 CG ₅₄	26.417	0.75	2 W	82396 2001 NR ₁	5.214	0.28	2 W
80770 2000 CB ₆₁	7.987	0.26-0.30	2 W	82401 2001 NF ₆	13.037	0.74	2 W
80773 2000 CY ₆₃	13.535	0.60	2 W	82442 2001 ON ₈	6.27	0.40-0.46	2 W
80775 2000 CN ₆₅	5.362	0.54	2 W	82483 2001 OG ₃₄	8.773	0.31	2 W
80783 2000 CR ₇₉	5.288	0.66-0.68	2 W	82495 2001 OC ₄₁	10.95	0.20	2- W
80806 2000 CM ₁₀₅		<0.14	HB	82524 2001 OE ₅₅	4.033	0.62	2 W
80864* 2000 DZ ₂₇	2.9	0.04	N	82525 2001 OM ₅₅	5.966	0.70	2 W
80865 2000 DH ₂₈	3.119	0.49	2 W	82547 2001 OB ₆₉			HNW
80915 2000 DK ₆₃	4.069	0.46	2 W	82554 2001 OA ₇₂	2.55	0.49	2- W
80936 2000 DS ₈₀	2.49	0.23	2 W	82590 2001 OO ₈₉	23.353	0.43	2 W
80940 2000 DD ₈₆	3.48	0.36	2+ W	82593 2001 OQ ₉₀	6.00	0.72	2 W
80952 2000 DF ₉₈	2.7775	0.10	2- W	82642 2001 PX ₅	11.61144		p Ns
80954 2000 DZ ₉₈	21.048	0.82	2 W	82660* 2001 PG ₁₆	5.631	0.33-0.95	2
80969* 2000 DL ₁₁₂	14.559	0.64-0.82	2 W	82681 2001 PY ₂₅			HNW
80978 2000 EG ₈	7.62	0.60	2 W	82683 2001 PZ ₂₆	4.36	0.50	2 W
80983 2000 EV ₁₂			HNW	82730 2001 PZ ₅₈	17.328	0.56	2 W
80988 2000 EK ₁₉	44.366	0.08	1 W	82752 2001 QG ₇	33.372	0.36	2 W
81013 2000 EY ₃₇	2.921	0.35	2 W	82753 2001 QO ₇	3.62	0.50	2 W
81015 2000 EF ₃₈	2.25	0.54	3- W	82767 2001 QR ₁₂	7.150	0.37-0.40	2 W
81032 2000 EK ₄₈	11.054	0.34	2 W	82813 2001 QJ ₃₅	4.862	0.43	2 W
81063 2000 EJ ₇₀	6.008	0.40	2 W	82842 2001 QK ₅₀	6.650	0.60	2 W
81080 2000 ET ₈₈	2.109	0.10	1 W	82937 2001 QW ₁₁₃	8.191	0.40	2 W
81119 2000 EW ₁₂₅	5.132	0.75	2 W	82943 2001 QG ₁₁₇	36.154	0.36-0.38	2 W
81153 2000 ES ₁₅₀	13.249	0.68	2 W	82971 2001 QD ₁₃₅	8.172	0.84	2 W
81174 2000 EO ₁₇₀	5.860	0.61	2 W	82995 2001 QJ ₁₅₅	8.143	0.63	2 W
81178 2000 EB ₁₇₅			HNW	83000 2001 QG ₁₅₉	16.043	0.07	1 W
81205 2000 FW ₁₀	4.95	0.78	2 W	83034 2001 QT ₁₈₃	8.73	0.36	2 W
81221 2000 FY ₂₁	20.43	0.58	2 W	83046 2001 QW ₁₉₅	23.279	0.09	1 W
81228 2000 FG ₂₅			HNW	83049 2001 QX ₁₉₆	7.759	0.40	2 W
81263 2000 FZ ₄₃	6.3	0.80	3- W	83108 2001 QY ₂₃₉	3.92	0.26	1+ W
81267 2000 FA ₄₆			HNW	83109* 2001 QR ₂₄₀	21.05	0.49	2 W
81289 2000 FC ₆₅	35.306	0.87	2 W	83119 2001 QX ₂₄₄	3.087	0.60	2 W
81298 2000 GW ₁	10.338	1.06	3- W	83150 2001 QA ₂₆₈	5.738	0.47-0.51	2 W
81337 2000 GP ₃₆	10.027	1.22-1.36	3	83218 2001 RP ₂₇	157.958	0.80	2 W
81345 2000 GW ₄₁	3.3735	0.33	3- W	83241 2001 RH ₅₂	3.465	0.56	2 W
81351 2000 GH ₅₀	5.065	0.12	2 W	83246 2001 RY ₅₇	7.56	0.27	2 W
81362 2000 GU ₅₉	6.1		N	83264 2001 RH ₇₅	6.350	0.61	2 W

MINOR PLANET LIGHTCURVE PARAMETERS

Planet	Period	Variation	Note	Planet	Period	Variation	Note
83270 2001 <i>RK</i> ₇₉	13.858	0.58	2 W	84922 2003 <i>VS</i> ₂	7.42	0.21-0.23	3-
83278 2001 <i>RQ</i> ₈₄	3.332	0.36	2 W	84944 2003 <i>WL</i> ₁₅₃	7.3	0.65	2
83281 2001 <i>RH</i> ₈₆	14.056	0.43	2 W	84960 2003 <i>XS</i> ₂₁	7.767	0.72	2 W
83287 2001 <i>RQ</i> ₉₀	3.98	0.60	2+ W	84963 2003 <i>YN</i> ₁₃	5.932	0.61	2 W
83323 2001 <i>RE</i> ₁₂₅	3.15	0.38-0.39	2 W	84966 2003 <i>YW</i> ₁₆	15.173	0.61	2 W
83338 2001 <i>RH</i> ₁₃₄	4.667	0.69-0.70	2 W	84975 2003 <i>YG</i> ₄₃	22.711	0.45	2 W
83344 2001 <i>RU</i> ₁₃₉	5.686	0.17	2 W	85000 2003 <i>YA</i> ₁₂₅	5.683	0.75	2 W
83349 2001 <i>RR</i> ₁₄₆	10.808	0.35	2 W	85007 2004 <i>AK</i> ₃	6.738	0.09	1 W
83374 2001 <i>SF</i> ₉	356.355	0.48	2 W	85051 6641 <i>P-L</i>	5.932	0.45	3 W
83391 2001 <i>SH</i> ₂₂	4.666	0.10	1+ W	85118 1971 <i>UU</i>	10.098	1.12-1.15	2+
83422 2001 <i>SV</i> ₄₃	9.64	0.59-0.60	3- W	85195 von Helfta	4.8412	0.87	N
83450* 2001 <i>SP</i> ₆₀	4.612	0.62-0.83	3	85232 1993 <i>FT</i> ₅₂			HNW
83459 2001 <i>SS</i> ₆₄	5.550	0.59	2 W	85275 1994 <i>LY</i>	2.6962	0.07-0.16	3 B?
83473 2001 <i>SA</i> ₇₉	4.896	0.71	2 W	85397 1996 <i>TN</i> ₃	2.398	0.10	1 W
83490 2001 <i>SB</i> ₁₀₆	5.363	0.47	2 W	85400 Shiratakachu	8.07	0.27	2 W
83499 2001 <i>SJ</i> ₁₁₇	4.926	0.58	2 W	85401 Yamatenclub	17.78	0.57	2 W
83505 2001 <i>SF</i> ₁₂₄			HNW	85424 1997 <i>AA</i> ₃	7.16	0.46	2 W
83520 2001 <i>SX</i> ₁₄₂	3.708	0.15	2 W	85447 1997 <i>GQ</i> ₁₁	2.681	0.09	1 W
83524 2001 <i>ST</i> ₁₄₈		0.58	W	85489 1997 <i>SV</i> ₂	5.79502		p Ns
83537 2001 <i>SU</i> ₁₆₃	3.03	0.38	2 W	85490 1997 <i>SE</i> ₅	9.0583	0.23-0.40	3
83597 2001 <i>SU</i> ₂₆₃	5.494	0.54	2 W	85532 1997 <i>WD</i> ₂₁	4.768	0.53	2 p s
83616 2001 <i>SW</i> ₂₈₇	8.42	0.69	2 W	85539 1997 <i>WG</i> ₃₇	21.960	0.47	2 W
83627 2001 <i>SN</i> ₃₁₅	7.836	0.55	2 W	85552 1997 <i>YR</i> ₇	3.735	0.19	2 W
83629 2001 <i>SY</i> ₃₁₆	11.872	0.37	2 W	85611 1998 <i>HW</i> ₁₆			HNW
83669 2001 <i>TV</i> ₂₉	6.252	0.20	2- W	85620 1998 <i>HJ</i> ₁₀₇	6.771	0.49	2 W
83672 2001 <i>TD</i> ₃₅	16.148	0.24	2 W	85628 1998 <i>KV</i> ₂	2.819	0.12-0.18	3-
83673 2001 <i>TN</i> ₃₅	11.926	0.08	1 W	85644 1998 <i>OH</i> ₁₀	4.345	0.13	2 W
83701 2001 <i>TA</i> ₇₅	2.94	0.21	2 W	85669 1998 <i>QK</i> ₅₅	4.368	0.67	2 W
83711 2001 <i>TH</i> ₈₂	3.555	0.20-0.25	2 W	85713 1998 <i>SS</i> ₄₉	5.370	0.06-0.18	2 A
83820 2001 <i>UJ</i> ₄	63.132	0.18	2 W	85743 1998 <i>SU</i> ₁₁₃	5.853	0.52	2 W
83826 2001 <i>UW</i> ₂₀	33.832	0.46	2 W	85745 1998 <i>SH</i> ₁₂₇	3.820	0.29	2 W
83831 2001 <i>UE</i> ₂₃	4.452	0.31-0.33	2 W	85774 1998 <i>UT</i> ₁₈	34.	0.34-0.8	1
83834 2001 <i>UQ</i> ₂₄	3.830	0.25	2 W	85782 1998 <i>VZ</i> ₂	5.379	0.41	2 W
83857 2001 <i>US</i> ₅₉	3.48	0.53	3- W	85793 1998 <i>VG</i> ₂₆	6.58	0.13	1 W
83875 2001 <i>UA</i> ₉₅	4.17	0.29	2 W	85804 1998 <i>WQ</i> ₅	3.0089	0.05-0.10	2
83884 2001 <i>UW</i> ₁₂₃	3.736	0.09	1 W	85834 1998 <i>XM</i> ₇₄	2.86	0.17-0.18	2 W
83900 2001 <i>UN</i> ₁₅₇		1.1	I	85836 1998 <i>YF</i> ₂	5.36	0.11	2 W
83902 2001 <i>UX</i> ₁₆₄	10.322	0.56	2 W	85839 1998 <i>YO</i> ₄		<0.05	
83909 2001 <i>UB</i> ₁₈₉	7.109	0.60	2 W	85854 1999 <i>AE</i> ₁₃	46.054	0.49	2 W
83913 2001 <i>VF</i> ₆	4.6673	1.00	3- W	85867 1999 <i>BY</i> ₉	25.	0.9	1+ T?
83917 2001 <i>VB</i> ₁₁	4.40	0.45	2 W	85872 1999 <i>BH</i> ₃₁	66.475	0.83	2 W
83919 2001 <i>VX</i> ₁₂			HNW	85875 1999 <i>CR</i> ₅	24.	0.21	1
83920 2001 <i>VX</i> ₁₅	5.447	0.54	2 W	85887 1999 <i>CE</i> ₃₆	10.266	0.92	2 W
83958 2001 <i>XA</i> ₃₆	246.062	0.87	2 W	85904 1999 <i>CH</i> ₇₀	7.019	0.64	2 W
83962 2001 <i>XW</i> ₁₂₃	5.19	0.66	2 W	85938 1999 <i>DJ</i> ₄	2.5141	0.10-0.11	3 B
83963 2001 <i>XM</i> ₂₀₂	9.469	0.91	2 W	85944 1999 <i>EM</i> ₇	77.122	0.33	2 W
83982 Crantor	13.94	0.14	1 A	85953 1999 <i>FK</i> ₂₁	17.62	0.45-0.60	3- T?
83984* 2002 <i>GL</i> ₇₇	5.752	0.08-0.16	1 HW	85958 1999 <i>FU</i> ₄₂	9.87	0.68	2 W
83988 2002 <i>LC</i> ₃₄	53.595	0.48-0.62	2 W	85959 1999 <i>FV</i> ₄₂	89.669	0.86	2 W
83999 2002 <i>NV</i> ₂₆	46.776	0.08	1 W	85980 1999 <i>HG</i> ₃	18.672	0.89	2 W
84000 2002 <i>NG</i> ₂₇	8.961	0.26	2 W	85988 1999 <i>JX</i> ₅	14.575	0.45	2 W
84042 2002 <i>PQ</i> ₅₆	8.07	0.76	2 W	85989* 1999 <i>JD</i> ₆	7.6638	0.5 -1.30	3
84045 2002 <i>PN</i> ₅₈	240.	0.5	1 W	85990 1999 <i>JV</i> ₆	6.538	0.85-0.93	3
84135 2002 <i>RD</i> ₅₁	4.02	0.15	1 W	86022 1999 <i>KJ</i> ₁₄	89.128	0.30	2 W
84203 2002 <i>RD</i> ₁₃₃	17.728	0.58	3- W	86039 1999 <i>NC</i> ₄₃	34.49	1.10-1.10	2- T?A
84305 2002 <i>TH</i> ₄₀	2.390	0.07	1 W	86044 1999 <i>OD</i> ₂	4.232	0.26	2 W
84340 Jos	4.19	0.18	2- W	86046 1999 <i>OY</i> ₂	20.360	0.58	2 W
84360* 2002 <i>TW</i> ₈₃	6.02	0.71	3- W	86047 1999 <i>OY</i> ₃	18.02	0.10	2 W
84379 2002 <i>TB</i> ₁₃₈	2.557	0.10	1 W	86048 1999 <i>PP</i> ₁	3.442	0.45	2 W
84394 2002 <i>TD</i> ₁₇₄	6.71	0.65	2 W	86052 1999 <i>RM</i> ₂	2.112	0.09	1 W
84407 2002 <i>TU</i> ₁₈₁	11.85	0.43	2 W	86067* 1999 <i>RM</i> ₂₈	9.196	0.51-0.55	3-
84478 2002 <i>TC</i> ₂₆₆	3.3167	0.48	3 W	86088 1999 <i>RR</i> ₈₈	14.628	0.40-0.41	2 W
84504 2002 <i>TL</i> ₂₈₆			HNW	86094 1999 <i>RV</i> ₁₀₀	6.754	0.44	2 W
84506 2002 <i>TE</i> ₂₈₈	10.352	0.44-0.45	2 W	86106 1999 <i>RP</i> ₁₁₃	975.095	0.74	2 W
84509 2002 <i>TZ</i> ₂₈₈	2.431	0.10	1 W	86109 1999 <i>RV</i> ₁₁₈	5.745	0.51	2 W
84512 2002 <i>TK</i> ₂₉₁	2.911	0.19	2 W	86120 1999 <i>RM</i> ₁₄₀	30.364	0.32	2 W
84522 2002 <i>TC</i> ₃₀₂	5.41	0.04	1+ I	86121 1999 <i>RE</i> ₁₄₄	5.384	0.65	2 W
84571 2002 <i>VR</i> ₁₃	2.951	0.39	2 W	86128 1999 <i>RC</i> ₁₅₄	147.684	0.89	2 W
84597 2002 <i>VD</i> ₃₁	5.351	0.08	1 W	86150 1999 <i>RP</i> ₂₀₀	5.334	0.45	2 W
84609 2002 <i>VE</i> ₃₆	8.298	0.69	2 W	86153 1999 <i>RE</i> ₂₀₁	4.493	0.51	2 W
84626 2002 <i>VB</i> ₄₇	6.889	0.64	2 W	86168 1999 <i>RQ</i> ₂₀₉	4.273	0.16	2 W
84631 2002 <i>VW</i> ₅₁	308.111	0.54	2 W	86174 1999 <i>RV</i> ₂₁₂	13.924	0.08	1 W
84660 2002 <i>VZ</i> ₇₈	5.787	0.86	2 W	86177 1999 <i>RY</i> ₂₁₅		<0.05	N
84668 2002 <i>VS</i> ₈₂	6.67	0.61	2+ W	86191 1999 <i>RY</i> ₂₅₁	34.602	0.40	2 W
84714 2002 <i>VE</i> ₁₂₃	2.300	0.08	1 W	86192 1999 <i>SV</i> ₁	7.155	0.23-0.29	3
84794 2002 <i>XY</i> ₈₇	3.206	0.19	2 W	86206 1999 <i>TK</i> ₉	150.077	0.41	2 W
84825 2002 <i>YE</i> ₂₆	4.02	0.44	2 W	86217 1999 <i>TB</i> ₃₅	5.994	0.88-1.00	3
84847 2003 <i>AW</i> ₂₈	8.28	0.35	2 W	86228 1999 <i>TW</i> ₁₀₇	9.817	0.09	1 W
84852 2003 <i>AN</i> ₃₈		0.52	W	86241 1999 <i>TE</i> ₁₂₀	5.115	0.31	2 W
84890 2003 <i>NP</i> ₉	19.2	0.07	1 A	86257 1999 <i>TK</i> ₂₀₇	32.408	1.05-1.51	3 p

MINOR PLANET LIGHTCURVE PARAMETERS

Planet	Period	Variation	Note	Planet	Period	Variation	Note
86275 1999 TA ₃₂₀	7.418	0.40	2 W	87617 2000 RB ₄₈	10.224	0.49	2 W
86301 1999 VL ₄₃	4.178	0.34	2 W	87632 2000 RF ₆₄	14.6	0.18	2- HW
86307 1999 VL ₇₈	2.954	0.10	1 W	87642 2000 RF ₇₃	4.61	0.50-0.60	2+ W
86326* 1999 WK ₁₃	6.36	0.08-0.14	2 A	87644 2000 SJ ₇₇	10.654	0.50	2 W
86329 1999 XZ ₇	6.834	0.65-0.73	2 W	87649 2000 RE ₈₀			HNW
86331 1999 XY ₁₉	8.600	0.63	2 W	87653 2000 RQ ₈₆	14.247	0.72	2 W
86378 2000 AV ₁₈	2.528	0.07	1 W	87669 2000 RE ₉₉	56.446	0.50	2 W
86388 2000 AT ₆₀	10.23	0.26	2 W	87677 2000 RT ₁₀₂	5.65	0.43	1 W
86417 2000 AM ₂₄₂	14.902	0.34	2 W	87684 2000 SY ₂	2.8712	0.09-0.10	2 W
86450 2000 CK ₃₃	6.6045	1. -1.2	3	87694 2000 SX ₁₃	17.781	0.40	2 W
86474 2000 CT ₇₉	9.50	0.21	2 W	87712 2000 SA ₃₄	40.266	0.66	2 W
86492 2000 DN ₁₅	5.466	0.41	2 W	87726 2000 SZ ₄₆	3.845	0.52	2 W
86505 2000 DS ₄₂	6.004	0.84	2 W	87742 2000 SH ₆₅	7.33	0.99	2 W
86519 2000 DM ₆₈	5.504	0.59	2 W	87799 2000 SP ₁₃₀	7.	0.16	2- W
86527 2000 DH ₇₆	3.466	0.40	2 W	87804 2000 SS ₁₃₇	6.23	0.24	1 W
86597 2000 EG ₆₈	3.608	0.47	2 W	87806 2000 SR ₁₄₀	6.49	0.99	2 W
86601 2000 EU ₇₅	14.108	0.28	2 W	87810 2000 SE ₁₄₅	4.602	0.53	2 W
86649 2000 EM ₁₅₂	3.31	0.14	2 W	87811 2000 SO ₁₄₅	55.2	0.45	2- W
86653 2000 EY ₁₇₀			HNW	87840 2000 SW ₁₉₃	11.282	0.71	2 W
86666 2000 FL ₁₀	206.	0.85	2 T?	87855 2000 SB ₂₂₀	12.463	0.57-0.74	2 W
86667 2000 FO ₁₀	26.	0.7	1	87887 2000 SS ₂₈₆	5.7773	0.21	3 W
86669 2000 FV ₁₄	20.908	0.42	2 W	87892 2000 TS ₂₉₂	309.666	0.82	2 W
86694 2000 FC ₄₉	57.018	0.55-0.56	2 W	87921 2000 SC ₃₁₈	85.776	0.53	2 W
86696 2000 FO ₄₉	4.87	1.00-1.41	2 W	87926 2000 SZ ₃₁₉	11.026	0.16	2 W
86718 2000 GO ₁₄	2.56	0.17	1+ W	87951 2000 SZ ₃₆₈	5.049	0.20	2 W
86725 2000 GG ₃₂	6.47	0.61	2- W	87971 2000 TW ₃₈	7.01	0.30	2 W
86740 2000 GM ₅₁	5.13	0.58	2 W	87981 2000 TS ₅₅	6.534	0.56	2 W
86742 2000 GR ₅₃	44.268	0.33	2 W	87984 2000 TP ₅₇	10.43	0.39	2 W
86759 2000 GX ₇₂	5.55	0.73-0.88	2 W	87988 2000 TZ ₆₂	4.1	0.35	2 W
86819 2000 GK ₁₃₇	3.0239	0.12-0.27	2 A	88005 2000 UR ₄₄	15.524	0.27	NA
86824 2000 GS ₁₄₀	2.87	0.42	2 W	88019 2000 UT ₆₆	21.743	0.44	2 W
86829 2000 GR ₁₄₆	3.0996	0.12-0.14	3	88039 2000 UQ ₁₀₀	6.348	0.49	2 W
86878 2000 HD ₂₄	23.1	0.35	1	88060 2000 VO ₄₄	7.574	0.29	2 W
86882 2000 HE ₂₇	3.82	0.31	2 W	88074 2000 WG ₅	6.806	0.54	2 W
86893 2000 HK ₃₃	5.748	0.77	2 W	88114 2000 WW ₁₀₇	19.401	0.61	2 W
86933 2000 HB ₆₆	5.374	0.79	2 W	88115 2000 WD ₁₁₆	5.3966	0.49	3 W
86952 2000 HT ₈₉	12.523	0.10	1 W	88120 2000 WF ₁₃₉	4.008	0.70	2 W
87028 2000 JA ₇₈	6.02	0.25-0.30	2 W	88139 2000 WP ₁₇₂	3.926	0.24	2 W
87039 2000 KT ₅	70.344	0.33	2 W	88141 2000 WE ₁₇₄	3.01	0.28	2- W
87048 2000 KT ₂₀	5.912	0.80	2 W	88144 2000 WS ₁₈₁	6.44	0.21	2 W
87068 2000 KN ₅₈			W	88161 2000 XK ₁₈	6.806	0.69-0.80	3 p
87073 2000 KF ₆₆	10.972	0.20	2 W	88188 2000 XH ₄₄	2.6906	0.06	3 W
87086 2000 KZ ₈₁	3.23	0.18	1 W	88199 2000 YQ ₇₃	4.229	0.85	2 W
87087 2000 KA ₈₃	8.225	0.70	2 W	88208 2000 YG ₁₂₀	4.535	0.46-0.56	2 W
87090 2000 LX ₂	34.904	0.18	2 W	88215 2001 AR ₂₂	5.05	0.28	1+ W
87098 2000 LS ₁₀	14.532	0.60	2 W	88226 2001 BY ₄₁	3.569	0.09	1 W
87104* 2000 LH ₁₈	2.90	0.11	2- 3	88227* 2001 BU ₄₂	6.355	0.16-0.26	1 HW
87105 2000 LX ₁₀	7.33	0.47	2 W	88230 2001 BT ₆₅	66.479	0.57-0.74	2 W
87116 2000 LQ ₃₀	6.821	0.78	2 W	88236 2001 CG ₁₂	3.342	0.08	1 W
87134 2000 NS ₅	412.657	0.84	2 W	88241 2001 CD ₂₃	5.734	0.10	2- HW
87179 2000 ON ₇	3.760	0.26	1+ W	88242 2001 CK ₃₅	575.950	0.92	2 W
87208 2000 OQ ₃₂	4.914	0.67-0.87	2 W	88259 2001 HJ ₇	4.166	0.11-0.15	3 W
87211 2000 OP ₃₆	2.833	0.08	1 W	88263* 2001 KQ ₁	13.16	0.52-0.90	3- W
87224 2000 OG ₄₁	45.494	0.21	2 W	88329 2001 OO ₅₇	3.32	0.77	2 W
87228 2000 OD ₄₂	18.18	1.8	2 W	88352 2001 OJ ₈₆	7.01	0.17	2- W
87230 2000 OZ ₄₂	>20.	>0.15	1 W	88367 2001 PY ₈	3.962	0.44-0.51	2 W
87231 2000 OB ₄₃	967.271	0.58	2 W	88388 2001 QT ₂	4.477	0.60	2 W
87234 2000 OX ₄₃	3.56	0.25	2 W	88417 2001 QJ ₄₈	8.690	0.68	2 W
87235 2000 OM ₄₄	6.376	0.55	2 W	88418 2001 QA ₅₀	13.050	0.67	2 W
87239 2000 OH ₄₅	5.969	0.21	2 W	88424 2001 QC ₆₁	2.668	0.07	1 W
87252 2000 OM ₅₀	13.644	0.28	2 W	88433 2001 QS ₆₈	2.656	0.41	2 W
87254 2000 OY ₅₂	82.440	0.67	2 W	88435 2001 QW ₇₀	7.184	0.68	2 W
87290 2000 PF ₁₈	52.520	0.66	2 W	88458 2001 QG ₉₅	6.408	0.28	2 W
87309 2000 QP	2.1651	0.10	2 W	88460 2001 QT ₉₇	3.29	0.15	2 W
87312 Akirasuzuki	3.25	0.14	2 W	88462 2001 QM ₉₉	5.6	0.63-0.70	2 W
87343 2000 QH ₂₅	22.6	0.06	1 W	88472 2001 QW ₁₁₁	5.476	0.83	2 W
87370 2000 QY ₅₀	6.86	0.55	2 W	88475 2001 QO ₁₁₃	6.284	0.50	2 W
87389 2000 QT ₆₆	3.01	0.48	2 W	88521* 2001 QN ₁₆₈	5.456	0.99	3- W
87405 2000 QP ₇₇	9.017	0.66-0.68	2 W	88522 2001 QM ₁₇₁	27.82	0.46	1 DAW
87421 2000 QS ₉₇	6.790	0.43-0.49	2 W	88525 2001 QU ₁₇₄	7.62	0.88	2+ W
87426 2000 QH ₁₀₁	5.8	0.14	2 W	88531 2001 QO ₁₈₀	2.90	0.44	2 W
87487 2000 QY ₁₅₃	5.899	0.34	2 W	88541 2001 QC ₁₉₀	16.047	0.19	2 W
87501 2000 QD ₁₆₉	5.223	0.32	2 W	88550 2001 QT ₁₉₇	7.234	0.54	2 W
87530 2000 QG ₂₀₀	5.11	0.34	2- W	88569 2001 QT ₂₄₅	5.05	0.70	2 W
87560 2000 RE ₄	2.61	0.23	2 W	88597 2001 QS ₂₇₀			HNW
87563 2000 RP ₆	2.85	0.40	2 W	88604 2001 QH ₂₉₃	7.178	0.48-0.52	3- W
87567 2000 RC ₁₁	3.28	0.25	2 W	88611 Teharonhiawako			NB
87580 2000 RE ₁₆	144.882	0.45	2 W	88621 2001 RR ₁₀	6.19	0.44	2 W
87607 2000 RA ₄₄	3.257	0.18-0.19	2 W	88622 2001 RU ₁₀	4.524	0.34-0.36	2 W
87611 2000 RP ₄₄	11.819	0.22	2 W	88628 2001 RF ₃₄	5.90	0.68-0.80	3 W

MINOR PLANET LIGHTCURVE PARAMETERS

Planet				Planet							
Planet	Period	Variation	Note	Planet	Period	Variation	Note				
88704	2001 SF	6.27	0.68	2	W	90585	2032 P-L	196.469	0.08	1	W
88710	2001 SL ₉	2.4004	0.08-0.12	3	B	90586	2035 P-L	2.711	0.23	2	W
88731	2001 SJ ₃₆	6.593	0.39-0.45	2	W	90632	2259 T-2	2.468	0.21-0.44	2	W
88742	2001 SU ₄₈	7.44	0.66	2	W	90688	1981 XC ₃₀	5.476	0.44	2	W
88763	2001 SS ₆₆	4.42	0.39	1+	W	90696	1981 EQ ₄₄	6.271	0.56	2	W
88796	2001 SB ₁₁₆	2.327	0.09	1	W	90698	Kościuszko	5.014	0.23	3	
88824	2001 SM ₁₅₈	6.171	0.87	2	W	90701	1986 RC ₅	10.231	0.45	2	W
88825	2001 SG ₁₅₉	5.297	0.69	2	W	90712	Wittelsbach	9.950	0.24	2	W
88850	2001 SL ₂₂₂	7.8	0.22	1+	W	90713	Chajnantor	4.17	0.45	2	W
88878	Bowenyueli	8.022	0.66	2	W	90738	1993 FP ₂₁	10.10	0.76	1	DAW
88918	2001 TN ₁₁	4.858	0.71	2	W	90781	1994 EE ₆	14.008	1.08	2	W
88925	2001 TC ₁₈	10.751	0.16	2	W	90839	1995 WN ₇	10.983	0.27	2	W
89051	2001 TF ₁₁₈	9.994	0.56	2	W	90884	1996 XC ₃₆	3.34	1.03	1+	W
89063	2001 TV ₁₄₆	4.362	0.30	2	W	90896	1997 CJ ₃	7.4	0.30	2	W
89076	2001 TH ₁₅₈	5.553	0.76	2	W	90920	1997 QM ₃	4.68	0.53	3-	W
89090	2001 TK ₁₈₂	10.2	0.60	2	W	90988	1997 XS ₁₃	8.8	0.14	2-	W
89096	2001 TB ₁₉₀	2.917	0.16	2	W	90997	1998 BC		0.93		W
89128	2001 UP ₇	5.894	0.77	2	W	91014	1998 DN ₁₂				HNW
89136	2001 US ₁₆	14.39	0.61-0.90	2	T	91040	1998 FD ₁₄	4.62	0.13	2	W
89140	2001 UT ₂₁	7.054	0.77	2	W	91063	1998 FX ₆₂	15.240	0.80	2	p W
89182	2001 UQ ₆₈	128.847	0.84	2	W	91066	1998 FP ₆₆	4.617	0.36	2	W
89198	2001 UQ ₈₃	7.589	0.98	2	W	91081	1998 FR ₁₀₉	5.441	0.47-0.56	2	W
89246	2001 UU ₁₆₇	5.558	0.62	2	W	91130	1998 HQ ₁₄₂	8.97	0.26	2-	W
89281	2001 VU ₁₆	3.468	0.09	1	W	91133	1998 HK ₁₅₁		<0.15		
89284	2001 VY ₁₇	5.13	0.59	2	W	91139	1998 KL ₄₇	5.834	0.65	2	W
89309	2001 VN ₃₆	73.145	1.4	3	p	91156	1998 QS ₆₀	13.121	0.51	2	W
89347	2001 VS ₆₆	9.092	0.42	2	W	91172*	1998 RG ₅	21.7	0.13	2-	W
89355	2001 VS ₇₈	40.553	0.39-0.52	3	T-	91231	1999 BP ₂₄	79.346	0.44	2	W
89375	2001 VB ₉₁	4.27	0.21	2	W	91245	1999 CN ₃₄	3.95	0.08	2	W
89402	2001 WG ₄	3.47	0.12	2	W	91247	1999 CM ₄₀	11.64	1.16	1	DAW
89410	2001 WQ ₁₃	10.895	0.24-0.27	2	W	91252	1999 CS ₄₉	3.357	0.23	3	
89413	2001 WM ₂₁	7.876	0.37-0.38	2	W	91305	1999 FK ₄₆	15.5	0.71	2-	W
89473	2001 XS ₂₂	12.942	0.64	2	W	91339	1999 JR ₁₅	101.919	0.35	2	W
89494	2001 XY ₃₈	18.82	0.31	2-	W	91411*	1999 NJ ₄₁	3.067	0.22	3	
89498	2001 XV ₄₃	6.468	0.74	2	W	91413	1999 NN ₄₉	3.868	0.09	2	W
89550	2001 XU ₉₇	9.0	0.65	2		91427	1999 PB ₅	2.908	0.23	2	W
89579	2001 XE ₁₂₇	6.502	0.10	1	W	91429	Michelebianda	2.849	0.22	2	W
89633	2001 XM ₂₁₀	157.336	0.23	2	W	91432	1999 RF ₁	4.6	0.42-0.52	2	W
89655	2001 XA ₂₅₁	9.32	0.79	2	W	91434	1999 RY ₃	29.703	0.48	2	W
89674	2001 YP ₃₇	4.95	0.74	2	W	91472	1999 RV ₉₁	51.997	0.98	2	W
89726	2001 YA ₁₃₄	3.007	0.47	2	W	91481	1999 RY ₁₀₈	3.976	0.34	2	W
89736	2002 AC ₁	10.699	0.51-0.55	2	W	91492	1999 RY ₁₃₂	4.370	0.41	2	W
89759	2002 AF ₅₆	5.52	0.34	2	W	91493	1999 RE ₁₃₄	15.883	0.23-0.24	2	W
89764	2002 AW ₆₁	5.93513			p Ns	91505	1999 RA ₁₅₈	5.52	0.17	2	W
89769	2002 AQ ₇₃	6.223	0.26	2	W	91511	1999 RJ ₁₆₃	6.512	0.66	2	W
89777	2002 AR ₉₀	10.856	0.62	2	W	91515	1999 RR ₁₆₉	10.433	0.35	2	W
89830	2002 CE	2.6149	0.09		N	91533	1999 RY ₁₉₉	3.85	0.84-1.22	2	W
89885	2002 CP ₂₂₈	14.12	0.54	2	W	91542	1999 RC ₂₀₇	35.658	0.16	2	W
89891	2002 CQ ₂₅₆	2.2512	0.34		NA	91545	1999 RT ₂₀₉	6.210	0.56	2	W
89915	2002 ED ₃₂	4.439	0.41	2	W	91551	1999 RA ₂₁₂	12.347	0.39	2	W
89936	2002 EK ₁₅₂	3.478	0.46	2	W	91552	1999 RF ₂₁₃	2.51	0.65	1+	W
89948	2002 GJ ₅₇	8.858	0.69	2	W	91596	1999 TF ₁₁	86.561	0.09	1	W
89969	2002 RW ₈₇				HNW	91599	1999 TQ ₁₃	198.254	0.61	2	W
89973*	Aranyjános	3.54	0.18	2	W	91635	1999 TH ₇₉	28.099	0.73	2	W
90041	2002 VU	32.289	0.80	2	W	91638	1999 TQ ₈₂	7.146	0.49	2	W
90050	2002 VQ ₂₃	17.3	0.15	1+	W	91659	1999 TP ₁₀₅	25.128	0.59	2	W
90068	2002 VV ₇₇				HNW	91661	1999 TG ₁₀₆	4.051	0.84	2	W
90075*	2002 VU ₉₄	7.879	0.31-0.65	3-	p	91681	1999 TF ₁₂₀	4.666	0.45	2	W
90076	2002 VS ₉₅		0.08		N	91710	1999 TZ ₁₄₉	13.564	0.64	2	W
90092	2002 XM ₄	2.454	0.13	2	W	91714	1999 TW ₁₅₃	23.366	0.68	2	W
90138	Diehl	8.07	0.43	2	W	91715	1999 TA ₁₅₄	85.271	0.55	2	W
90148	2002 YL ₁₄	3.276	0.20	2	W	91734	1999 TM ₁₆₆	8.201	0.45	2	W
90166	2003 AR ₆	17.711	0.10	1	W	91776	1999 TJ ₂₀₆	27.036	0.14	2	W
90174	2003 AK ₁₉	6.395	0.77	2	W	91849	1999 UK ₆	16.258	0.27	2	W
90199	2003 AY ₆₂				HNW	91851	1999 UA ₈	204.244	0.87	2	W
90232	2003 BD ₂₇		0.83		W	91858	1999 US ₁₆	14.197	0.71	2	W
90242	2003 BF ₅₂	5.458	0.57-0.67	2	W	91888	Tomskilling	9.657	0.30	2	W
90265	2003 CL ₅	23.42	1.80	3	p	91891	1999 VJ ₂	60.665	0.54	2	W
90275	2003 DM	4.55	0.38	2	W	91937	1999 VQ ₅₈	17.066	0.09	1	W
90282	2003 DS ₂₀	2.82	0.36	2	W	92010	1999 VB ₁₅₉	10.43	0.56	2+	W
90337	2003 FQ ₉₇	60.	0.54-0.54	2-	A	92013	1999 VV ₁₅₉	15.847	0.82	2	W
90377	Sedna	10.273	0.02	2	A	92018	1999 VV ₁₆₂	3.203	0.30	2	W
90389	2003 WQ ₁₅₃	39.971	0.85	2	W	92028	1999 VM ₁₇₇	12.479	0.64	2	W
90416	2003 YK ₁₁₈	43.58	0.13	2+	A	92064	1999 WA ₁₃	6.281	0.65	2	W
90431	2004 BY ₅₅	12.296	0.93	2	W	92065	1999 WC ₁₃	6.844	0.35	2	W
90454	2004 CV	100.	0.30	2-	W	92119	1999 XW ₈₁	3.624	0.21	2	W
90482	Orcus	13.188	0.04-0.18	2	B	92127	1999 XE ₁₀₇	10.03	0.34	2	W
90528	Raywhite	5.224	0.79	2	W	92131	1999 XT ₁₀₇	10.153	0.33	2	W
90539	2004 FH ₆₈	5.685	0.51	2	W	92193	1999 XG ₂₃₀	45.177	0.60	2	W
90568	2004 GV ₉	5.86	0.1 -0.16		N	92225	2000 AX ₈₇	3.443	0.38	2	W

MINOR PLANET LIGHTCURVE PARAMETERS

Planet	Period	Variation	Note	Planet	Period	Variation	Note
92237* 2000 AO ₁₂₀	>48.	>0.5	W	93920 2000 WN ₁₆₀	7.614	0.53	2 W
92287 2000 EX ₁₄	188.935	0.40	2 W	93934 2000 WC ₁₆₇	4.16	1.02	3- W
92329 2000 GZ ₆₄	4.325	0.49	2 W	93946 2000 WW ₁₇₄	6.358	0.48	2 W
92336 2000 GY ₈₁	28.212	0.44-0.51	2+ W	93955 2000 WT ₁₈₃	449.458	0.62	2 W
92460 2000 KT ₃₉	7.63	0.35	2- W	94005 2000 XO ₂₅	21.650	0.21	2 W
92498 2000 NH ₉	2.89	0.35	2 W	94048 2000 YU ₂	7.432	0.49	2 W
92519 2000 NO ₂₇	3.08	0.15	2 W	94086 2000 YG ₅₅	8.893	0.90	2 W
92520 2000 NH ₂₈	4.422	0.73	2 W	94106* 2000 YB ₇₉	2.66	0.39	2 W
92528 2000 OQ ₈	4.575	0.32-0.50	2 W	94186 2001 AH ₄₅	11.075	0.55	2 W
92541 2000 OX ₂₀	3.187	0.39	2 W	94204 2001 BR ₂₄	10.506	0.79	2 W
92597 2000 PE ₁₉	8.28	0.80	2+ W	94245 2001 CW ₁₁	8.262	0.50	2 W
92636 2000 QS ₂₀	10.949	0.08	1 W	94257 2001 CJ ₃₅	5.244	0.15	2 W
92730 2000 QY ₉₉				94265 2001 CU ₄₅	4.469	0.23	2 W
92754 2000 QY ₁₁₃	6.03	1.03	3- W	94266 2001 DO	15.025	0.70-0.78	2 W
92857 2000 QQ ₂₀₅	5.01	0.47	3- W	94313 2001 FE ₄₁	7.501	0.29-0.34	2 W
92871* 2000 QK ₂₁₄	12.36	0.58	2+ W	94314* 2001 FV ₄₉	30.97	0.49	3- W
92901 2000 RE ₅	9.623	0.34	2 W	94320 2001 FH ₁₀₉	18.572	0.63	2 W
92936 2000 RQ ₃₂	6.082	0.71	2 W	94324 2001 FB ₁₂₇	6.388	1.00	2 W
92941 2000 RP ₃₄	10.769	0.13	2 W	94346 2001 QU ₈₈	3.0731	0.11	3 W
92942 2000 RC ₃₅	30.387	0.23	2 W	94365 2001 RN ₇₀	3.33	0.39	2 W
92963 2000 RN ₄₈	11.548	0.35-0.45	2 W	94424 2001 TW ₃₉	6.110	0.75	2 W
92982 2000 RE ₇₁	3.149	0.29	2 W	94440 2001 TH ₆₅	7.007	0.81	2 W
92988 2000 RJ ₇₃	5.036	1.02-1.04	2 W	94547 2001 UD ₂₀₅			HNW
93000 2000 RJ ₈₃	12.032	0.27-0.30	2 W	94577 2001 VU ₄₅	7.419	0.77	2 W
93036 2000 RW ₁₀₃	5.521	0.51	2 W	94583 2001 VG ₄₇	10.84	0.70	1 DW
93044 2000 SE ₆	17.614	0.42	2 W	94599 2001 VY ₇₉	5.544	0.08	1 W
93069 2000 SX ₂₄	9.174	0.47-0.54	2 W	94608 2001 VR ₁₀₉	6.02	0.60	2+ W
93079 2000 SX ₂₈	18.941	0.92	2 W	94653 2001 WF ₆₇	4.80	0.48-0.50	3- W
93090 2000 SF ₃₇	6.770	0.67-0.86	2 W	94763* 2001 XM ₉₉	3.04	0.35	2- B?
93114 2000 SE ₅₈		0.84	W	94808 2001 XM ₁₆₇	10.66092		2- Ns
93115 2000 SJ ₅₈	2.990	0.59	2 W	94838 2001 XU ₁₉₄	3.06	0.18	2 W
93131 2000 SV ₆₇			HNW	94905 2001 YS ₂₄	2.72	0.10	2 W
93144 2000 SM ₇₈	14.704	0.53	2 W	94940 2001 YP ₇₈			HNW
93150 2000 SC ₈₁	5.405	0.73-0.82	2 W	94961 2001 YJ ₁₀₁	4.276	0.39	2 W
93152 2000 ST ₈₃	6.103	0.65-0.86	2 W	94972 2001 YY ₁₀₉	34.081	0.27	2 W
93157 2000 SD ₈₅	57.634	0.23	2 W	94988* 2001 YU ₁₁₉	5.432	0.55	3 W
93177* 2000 SP ₁₀₃	7.343	1.05	3- W	95010 2002 AR ₁	8.64	1.30	2- W
93190 2000 SN ₁₁₁	2.466	0.34	2 W	95019 2002 AR ₁₀	4.954	0.68	2 W
93195 2000 SV ₁₁₂	2.2	0.52	N	95022 2002 AG ₁₄			HNW
93198 2000 ST ₁₁₄	5.312	0.53	2 W	95047 2002 AL ₃₇	3.18	0.25	2 W
93218 2000 SJ ₁₃₁	3.072	0.35	2 W	95110 2002 AR ₁₁₈	6.82	0.83	2 W
93220 2000 SA ₁₃₅	6.435	0.54	2 W	95126 2002 AZ ₁₄₈	5.347	0.55	2 W
93225 2000 SE ₁₄₂	4.715	0.45	2 W	95147 2002 AP ₁₆₆	>6.	>0.5	2 W
93226 2000 SJ ₁₄₂	6.485	0.73	2 W	95156 2002 AK ₁₇₅	5.45	0.76	3 W
93259 2000 SD ₁₆₆	4.82	0.63-0.66	2 W	95201 2002 BJ ₁₉	20.653	0.18-0.23	2 W
93268 2000 SX ₁₇₃	7.419	0.64	2 W	95218 2002 CO ₁₄	5.400	0.61-0.69	2 W
93270 2000 SX ₁₇₅	3.373	0.49	2 W	95223 2002 CU ₂₂	7.22	0.93	2 W
93335 2000 SK ₂₃₅	6.3	0.59-0.85	2 W	95335 2002 CU ₁₁₈	21.723	0.43	2 W
93348 2000 SF ₂₅₀	7.87	0.77	2 W	95353 2002 CX ₁₃₈	3.611	0.62	2 W
93353 2000 SF ₂₅₃	5.82	0.25	1 W	95355 2002 CQ ₁₄₁	229.853	0.27	2 W
93371 2000 SP ₂₆₉			HNW	95431 2002 CZ ₂₄₀	8.21	0.57	2+ W
93405 2000 SV ₂₉₃	5.970	0.41	2 W	95490 2002 EX ₂₉	8.759	0.39	2 W
93412 2000 ST ₃₀₀	9.102	0.66-0.68	2 W	95512 2002 EH ₅₂	10.689	0.51	2 W
93418 2000 SB ₃₀₅	5.85	0.17	2 W	95525 2002 EZ ₇₀	19.947	0.79	2 W
93440 2000 SX ₃₂₈	5.849	0.75	2 W	95548 2002 EX ₈₈			HNW
93452 2000 SY ₃₅₁	8.401	0.39-0.40	2 W	95549 2002 EK ₈₉	4.351	0.50	2 W
93461* 2000 ST ₃₆₃	2.845	0.09	2- W	95552 2002 EU ₉₃	9.946	0.36	2 W
93492 2000 TD ₃₆	3.310	0.66	2 W	95559 2002 EK ₉₈	43.562	0.62	2 W
93540 2000 UG ₁₉	3.499	0.18-0.20	2 W	95560 2002 EX ₉₈	7.928	0.35-0.42	2 W
93546 2000 UT ₂₂	7.01	0.69	2 W	95561 2002 EV ₁₀₀	4.623	0.57	2 W
93578 2000 UW ₄₇	6.81	0.30	2 W	95600 2002 FK ₂₇	6.783	0.61	2 W
93660 2000 UH ₁₀₄	2.34	0.11	2 W	95622 2002 GU ₁₈	3.496	0.61	2 W
93690 2000 VE ₂₁	>12.	>0.18	2- W	95624 2002 GP ₂₄	16.418	0.46	2 W
93693 2000 VC ₂₃	4.236	0.42	2 W	95626 2002 GZ ₃₂	5.80	0.08	N
93707 2000 VP ₃₁	11.2	0.53-0.75	2+ W	95666 2002 GZ ₁₄₁	4.016	0.36	2 W
93710 2000 VR ₃₃	6.062	0.33-0.36	2 W	95704 2002 JS ₁₂₄	125.144	1.00	2 W
93734 2000 VS ₄₇	7.231	0.75	2 W	95711 2003 AK	100.	0.7	NTO
93738 2000 VQ ₅₀	103.998	0.50	2 W	95746 2003 EW ₂₂	3.79	0.11	2 W
93749 2000 VP ₆₂	6.331	0.70	2 W	95796 2003 FM ₂₄	6.237	0.36-0.40	2 W
93754 2000 WZ ₆	6.743	0.38	2 W	95822 2003 FM ₈₂			HNW
93756 2000 WZ ₈	110.299	0.49-0.55	2 W	95825 2003 FJ ₈₆	4.38	0.82	2 W
93768 2000 WN ₂₂	2.6821	0.21-0.33	3 W	95868 2003 GB ₂₉	2.38	0.74	N
93779 2000 WT ₃₀	3.50	0.93	3 W	95903 2003 HC ₂₇	9.156	0.50	2 W
93785 2000 WZ ₃₃	2.948	0.34	2 W	95932 2003 JE ₁₇	82.370	0.53	2 W
93810 2000 WB ₅₇	15.846	0.61	2 W	95971 2004 LU ₈	6.448	0.84-0.96	2 W
93820 2000 WN ₇₀	17.399	0.37	2 W	96008 2004 OA ₅	4.19	0.47	2 W
93821 2000 WF ₇₁	29.135	0.37	2 W	96014 2004 PD ₇	3.56	0.55	2 W
93834 2000 WR ₇₉	57.904	0.92	2 W	96069 2006 P-L	2.20	0.20	2 W
93894 2000 WM ₁₄₁	131.289	0.40	2 W	96144 2006 T-3	102.151	0.68	2 W
93897 2000 WD ₁₄₃	69.430	0.74	2 W	96155 1973 HA	15.59	0.59	3-

MINOR PLANET LIGHTCURVE PARAMETERS

Planet	Period	Variation	Note	Planet	Period	Variation	Note
96165 1981 <i>EL</i> ₁₄	4.950	0.32	2 W	98290* 2000 <i>SE</i> ₂₂₈	3.30	0.34	2- W
96178 1981 <i>Rochambeau</i>	5.2	0.14	1 A	98338 2000 <i>SB</i> ₂₉₆	4.52	0.35	3
96184 1990 <i>QH</i> ₃	4.332	0.46	2 W	98342 2000 <i>SD</i> ₂₉₉	102.509	0.09	1 W
96213 1993 <i>FZ</i> ₃₀	2.970	0.30	2 W	98346 2000 <i>SW</i> ₃₀₄	5.634	0.69-0.72	2 W
96250 1994 <i>PE</i> ₂₅	9.292	0.35	2 W	98384 2000 <i>TG</i> ₄₂	67.293	0.75	2 W
96253 1995 <i>BY</i> ₁	3.0	0.49	2-	98404 2000 <i>UT</i> ₈		0.54	W
96315 1997 <i>AP</i> ₁₀	5.872	0.96	3	98442 2000 <i>UT</i> ₅₅	2.89	0.16-0.17	2 W
96327 Ullmann	3.639	0.08-0.20	2	98454 2000 <i>US</i> ₆₆	7.675	0.65	2 W
96336 1997 <i>KT</i> ₃	24.327	0.68	2 W	98496 2000 <i>VT</i> ₃	28.24	2.10	1 DAW
96348 Toshiyukimariko	21.37	0.09	1 W	98504 2000 <i>VY</i> ₁₅	4.938	0.58	2 W
96373 1997 <i>YH</i> ₇	7.518	0.63	2 W	98505 2000 <i>VC</i> ₁₆	3.05	0.20	2 W
96392 1998 <i>DH</i>	5.341	0.57	2 W	98590 2000 <i>WV</i> ₅₄	5.227	0.69	2 W
96453 1998 <i>GP</i> ₉	3.406	0.47	2 W	98603 2000 <i>WU</i> ₆₉	8.052	0.50	2 W
96461 1998 <i>HS</i> ₃₆	S 12.67641		p Ns	98610 2000 <i>WP</i> ₇₆	5.22	0.28	1 W
96480 1998 <i>HN</i> ₁₃₉			HNW	98617 2000 <i>WQ</i> ₈₁	11.71	0.46	2 W
96487 1998 <i>JU</i> ₁		0.06	N	98675 2000 <i>WV</i> ₁₆₈	6.421	0.67	2 W
96518 1998 <i>RO</i> ₃	6.62	0.11	2	98746 2000 <i>YQ</i> ₄₉	10.11	0.42	2 W
96562 1998 <i>SZ</i> ₁₃₈	2.5688	0.18	3	98786 2000 <i>YR</i> ₉₆	17.342	0.60-0.63	2 W
96590 1998 <i>XB</i>	520.	>1.0	NT0	98869 2001 <i>BT</i> ₅	4.68	1.0	2 W
96605 1999 <i>AS</i> ₁₀	2.599	0.08	1 W	98889 2001 <i>BL</i> ₃₈	5.421	0.27	2+
96612 1999 <i>CZ</i> ₃	11.29	0.87	2 W	98943 2001 <i>CC</i> ₂₁	5.017	0.81	N
96631* 1999 <i>FP</i> ₅₉	3.59	0.14	2+	98954 2001 <i>CX</i> ₃₂	3.307	0.26	2 W
96635 1999 <i>GR</i> ₄	54.606	0.82	2 W	98955 2001 <i>CE</i> ₃₄	6.198	0.53	2 W
96734 1999 <i>NR</i> ₄₂	9.811	0.77	2 W	98978 2001 <i>DG</i> ₁₉	8.198	0.58	2 W
96765 1999 <i>RS</i> ₃₄	21.216	0.93	2 W	98993 2001 <i>DC</i> ₃₆	3.219	0.20-0.39	2 W
96767 1999 <i>RP</i> ₄₀	16.125	0.16	2 W	99008 2001 <i>DU</i> ₅₂	37.45	0.47	2
96792 1999 <i>RO</i> ₁₁₀	17.082	0.39	2 W	99013 2001 <i>DX</i> ₆₄	3.54	0.36-0.38	2 W
96796 1999 <i>RQ</i> ₁₂₄	5.912	0.75-0.92	2 W	99014 2001 <i>DG</i> ₆₅	14.449	0.22-0.26	2 W
96817 1999 <i>RK</i> ₁₆₆	5.631	0.83	2 W	99163 2001 <i>FO</i> ₁₄₀	12.996	0.94-0.98	2 W
96842 1999 <i>RH</i> ₂₀₈	3.236	0.36	2 A	99172 2001 <i>FG</i> ₁₆₀	7.06	0.25	2 W
96848 1999 <i>RL</i> ₂₂₁	6.36	0.23	2 W	99175 2001 <i>FY</i> ₁₆₃	3.36	0.28	2 W
96885 1999 <i>TK</i> ₂₆	10.3	0.28	2 W	99189 2001 <i>FV</i> ₁₉₀	11.049	0.65-0.89	2 W
96893 1999 <i>TM</i> ₃₉	12.	0.8	2 W	99191 2001 <i>FF</i> ₁₉₄	56.617	0.46	2 W
96901 1999 <i>TM</i> ₇₀	19.562	0.57	2 W	99248 2001 <i>KY</i> ₆₆	19.7	0.30	2-
96974 1999 <i>TL</i> ₁₉₄	3.478	0.21-0.27	2 W	99256 2001 <i>LQ</i> ₁₂	10.528	0.25	2 W
96990 1999 <i>TQ</i> ₂₁₅	16.991	0.52-0.71	2 W	99264 2001 <i>OP</i> ₄₂	2.95	0.34	2 W
97029 1999 <i>TT</i> ₃₂₃	3.32	0.32	2 W	99302 2001 <i>RU</i> ₉₂	5.65	0.21	2 W
97050 1999 <i>UD</i> ₄₅	6.11	0.51	2 W	99395 2002 <i>AB</i> ₁₉	7.08	0.29	2
97058 1999 <i>UA</i> ₅₉	10.919	0.69-0.73	2 W	99475 2002 <i>CR</i> ₁₁₈	81.	>0.74	2 TO
97059 1999 <i>VU</i> ₃	3.935	0.41	2 W	99486 2002 <i>CJ</i> ₁₇₁	6.127	0.39	2 W
97084 1999 <i>VJ</i> ₄₅	76.516	0.54	2 W	99611 2002 <i>GL</i> ₆₈	12.324	0.85	2 W
97150 1999 <i>VW</i> ₁₅₆	74.282	0.73	2 W	99654 2002 <i>HP</i> ₄	4.673	0.06	1 W
97158 1999 <i>VV</i> ₁₆₆	9.496	0.40-0.50	2 W	99656 2002 <i>HD</i> ₉	5.339	0.40	2 W
97162 1999 <i>VW</i> ₁₈₄	3.876	0.53	2 W	99667 2002 <i>JO</i> ₁	S 5.07877		p Ns
97163 1999 <i>VO</i> ₁₈₆	8.314	0.36	2 W	99674 2002 <i>JN</i> ₁₁	7.42	0.75	1 DAW
97265 1999 <i>XM</i> ₁₂₅	2.84	0.21	1 W	99729 2002 <i>JQ</i> ₅₅	4.62	0.60	1 W
97314 1999 <i>XV</i> ₂₀₆	S 121.670	0.67	2 W	99742 2002 <i>JY</i> ₆₈	4.663	0.54-0.69	2 W
97346 2000 <i>AF</i> ₁₀	7.65364		p Ns	99760 2002 <i>JN</i> ₁₀₀	7.475	0.73-0.85	2 W
97350 2000 <i>AT</i> ₁₄	5.78	0.91	2 W	99767 2002 <i>JP</i> ₁₀₄	6.78	0.70	1 DAW
97363 2000 <i>AS</i> ₃₆	6.489	0.57	2 W	99812 2002 <i>LW</i> ₃₁	150.	0.8	2 TO
97455 2000 <i>CL</i> ₁₃	3.983	0.39	2 W	99870 2002 <i>PZ</i> ₄₇	6.96	0.23	1+
97481 2000 <i>CF</i> ₆₁	14.44	0.51	1 DAW	99889 2002 <i>PS</i> ₁₆₄	5.865	0.19	2 W
97485 2000 <i>CO</i> ₆₆	3.19	0.86	1+	99907 1989 <i>VA</i>	2.514	0.22-0.40	3
97490 2000 <i>CV</i> ₇₈	2.62	0.33	1 W	99909 1994 <i>PZ</i> ₂	10.5		N
97512 2000 <i>CU</i> ₁₁₈	9.06	0.55	2 W	99913 1997 <i>CZ</i> ₅	2.833	0.14-0.20	3 B
97520 2000 <i>DA</i> ₁₈	8.263	0.68	2 W	99918 1998 <i>SQ</i> ₂	3.681	0.13	2 W
97553 2000 <i>DC</i> ₆₄	4.104	0.50	2 W	99942 Apophis	30.56	0.30-1.14	3 p
97585 2000 <i>EW</i> ₂₅	12.599	0.73	2 W	99957 1978 <i>VM</i> ₄	5.716	0.70	2 W
97649 2000 <i>FK</i> ₁	7.363	1.04	3	99975 1981 <i>EP</i> ₆	32.870	0.33	2 W
97674 2000 <i>FJ</i> ₅₀	8.161	0.40	2 W	99978 1981 <i>ER</i> ₁₃	6.96	0.82	3- W
97714 2000 <i>GU</i> ₉₀	5.807	0.93	2 W	99980 1981 <i>ER</i> ₁₈	2.35	0.13	2
97718 2000 <i>GU</i> ₁₀₇	5.786	0.60	2 W	99990 1981 <i>EM</i> ₃₅	7.072	0.21	2 W
97769 2000 <i>JS</i> ₇₀	13.916	0.27	2 W	99998 1981 <i>ED</i> ₄₈	2.774	0.33	2 W
97772 2000 <i>JZ</i> ₇₉	14.519	0.23	2 W	100004 1983 <i>VA</i>	3.1643	0.11	3
97816 2000 <i>OW</i> ₄₈	5.779	0.67	2 W	100014 1989 <i>SR</i> ₄	12.511	0.17	2 W
97909 2000 <i>QY</i> ₈₁	10.512	0.80	2 W	100047 Leobaek	3.469	0.58	2 W
97914 2000 <i>QK</i> ₉₀	7.927	0.62	2 W	100085 1992 <i>UY</i> ₄	12.9060	0.24-0.26	3
97957 2000 <i>QB</i> ₁₃₅	5.897	0.79	2 W	100113 1993 <i>FW</i> ₇₃	6.665	0.60	2 W
98015 2000 <i>QS</i> ₂₁₅	4.52	0.77	N	100116 1993 <i>KG</i> ₁	28.43	1.27	2 W
98055 2000 <i>RR</i> ₃₈	447.601	0.40	2 W	100196 1994 <i>CL</i> ₁₆	13.225	0.58	2 W
98058 2000 <i>RH</i> ₄₆	3.829	0.68	2 W	100229 Jeanbailly	112.945	0.51	2 W
98063 2000 <i>RG</i> ₄₈	358.281	0.08	1 W	100270 1994 <i>VQ</i>	20.851	0.53	2 W
98081 2000 <i>RF</i> ₆₇	287.281	0.84	2 W	100351 1995 <i>SU</i> ₈₈	1.99	0.55	1 W
98129 2000 <i>SD</i> ₂₅		0.11	N	100367 1995 <i>UY</i> ₄₀	8.287	0.10	1 W
98158 2000 <i>ST</i> ₇₅	4.683	0.19	2 W	100384 1995 <i>VH</i> ₁₅	5.823	0.67	2 W
98232 2000 <i>SJ</i> ₁₅₁	5.55	0.78	3-	100386 1995 <i>WZ</i> ₂	8.383	0.09	1 W
98234 2000 <i>SA</i> ₁₅₂	12.179	0.50	2 W	100390 1995 <i>WK</i> ₁₃	8.608	0.69-0.82	2 W
98238 2000 <i>SS</i> ₁₅₄	3.086	0.08	1 W	100391 1995 <i>WO</i> ₁₇	4.59	0.78	2 W
98262 2000 <i>SF</i> ₁₈₅	14.19	0.95	3-	100394 1995 <i>WX</i> ₃₂	10.798	0.10	1 W
98278 2000 <i>SE</i> ₂₁₂			HNW	100400 1995 <i>YX</i> ₇	90.520	0.72	2 W

MINOR PLANET LIGHTCURVE PARAMETERS

Planet				Planet				
Planet	Period	Variation	Note	Planet	Period	Variation	Note	
100468	1996 <i>TO</i> ₂₃	5.458	2- W	102479	1999 <i>TQ</i> ₂₅₀	5.52	0.32	2 W
100478	1996 <i>TW</i> ₅₉	20.000	2 W	102528	1999 <i>US</i> ₃	4.682	0.45-0.50	3 W
100479	1996 <i>TT</i> ₆₀	17.766	2 W	102529	1999 <i>UD</i> ₄	2.238	0.07	1 W
100493*	1996 <i>VK</i> ₃₇	>1.0	>0.22	102539	1999 <i>UT</i> ₁₀	2.858	0.15	2 W
100628	1997 <i>UX</i> ₃	3.265	1 W	102588*	1999 <i>UM</i> ₅₂	111.2	0.46	2 W
100636	1997 <i>UY</i> ₂₆	5.437	2 W	102589	1999 <i>UP</i> ₅₂	8.068	0.58	2 W
100670	1997 <i>WV</i> ₅₀	6.014	2 W	102605	1999 <i>VH</i> ₉	2.27	0.48	3- W
100685	1997 <i>YH</i> ₂	2.50	2 W	102712	1999 <i>VQ</i> ₉₃	6.560	0.30	2 W
100718	1998 <i>BR</i> ₂₄	3.43	2+ W	102720	1999 <i>VW</i> ₉₈	3.81	0.77	1+ W
100756	1998 <i>FM</i> ₅	6.369	3 W	102727	1999 <i>VF</i> ₁₀₁	9.40	1.16	3- W
100761	1998 <i>FT</i> ₁₀	5.358	2 W	102760	1999 <i>VG</i> ₁₃₂	7.44	0.65	2 W
100772	1998 <i>FN</i> ₃₄	4.758	2 W	102780	1999 <i>VO</i> ₁₄₇	34.217	0.70	2 W
100784	1998 <i>FM</i> ₆₁	4.301	2 W	102790	1999 <i>VH</i> ₁₅₇	6.110	0.09	1 W
100830	1998 <i>HV</i> ₉	9.00	2 W	102798	1999 <i>VF</i> ₁₆₅	6.36	0.68	1+ W
100831	1998 <i>HW</i> ₉	5.203	2 W	102831	1999 <i>VK</i> ₁₈₉	3.689	0.21	2 W
100925	1998 <i>LV</i> ₃	6.734	2 W	102847	1999 <i>VV</i> ₂₀₂	27.819	0.24	2 W
100926*	1998 <i>MQ</i>	2.328	2+ W	102866	1999 <i>WA</i> ₅	3.09	0.35	3- W
101005	1998 <i>QD</i> ₄₇	21.541	1 W	102912	1999 <i>XA</i> ₂₁	41.6	0.78	2+ W
101065	1998 <i>RV</i> ₁₁	4.977	3- W	103004	1999 <i>XR</i> ₉₈	4.562	0.44-0.59	2 W
101097	1998 <i>RB</i> ₃₉	4.743	2 W	103016	1999 <i>XH</i> ₁₀₅	3.360	0.42	2 W
101145	1998 <i>RD</i> ₇₀	67.938	2 W	103036	1999 <i>XP</i> ₁₁₈	9.741	0.20	2 W
101174	1998 <i>SZ</i> ₄	8.990	2 W	103066	1999 <i>XO</i> ₁₄₁	5.53	0.62	1+ W
101202	1998 <i>SN</i> ₃₆		HNW	103067	1999 <i>XA</i> ₁₄₃	9.8490	0.49	3 W
101230	1998 <i>SV</i> ₇₂	4.308	2 W	103071	1999 <i>XU</i> ₁₅₀	7.399	0.55	2 W
101256*	1998 <i>SA</i> ₉₅	5.60	2- W	103110*	1999 <i>XP</i> ₁₇₇	9.8	0.51	2 W
101263	1998 <i>SU</i> ₁₀₅	5.154	2 W	103113	1999 <i>XD</i> ₁₇₈	3.82	0.40	2- W
101310	1998 <i>SJ</i> ₁₃₆		HNW	103132*	1999 <i>XY</i> ₁₉₈	2.510	0.17	2+ W
101340	1998 <i>TN</i> ₄	5.75	1 W	103173	1999 <i>XS</i> ₂₃₃	13.094	0.74	2 W
101348	1998 <i>TG</i> ₁₇	2.517	2 W	103189	1999 <i>XV</i> ₂₄₂	3.374	0.45	2 W
101355	1998 <i>TS</i> ₃₅	21.343	2 W	103195	1999 <i>XZ</i> ₂₄₃	5.260	0.36	2 W
101383	Karloff	2.57	2 W	103252	2000 <i>AG</i> ₉	6.953	0.66-0.67	2 W
101392	1998 <i>UW</i> ₃₄	4.941	2 W	103277	2000 <i>AU</i> ₃₃			HNW
101429	1998 <i>VF</i> ₃₁	7.70	2- W	103306	2000 <i>AU</i> ₅₃	13.441	0.50	2 W
101430	1998 <i>VE</i> ₃₂	40.66	2+ W	103357	2000 <i>AM</i> ₉₂	5.468	0.61	2 W
101448	1998 <i>VF</i> ₅₄	73.443	1 W	103375	2000 <i>AT</i> ₁₁₄	7.306	0.71-0.79	2 W
101496	1998 <i>XM</i> ₃	5.052	3 W	103405	2000 <i>AM</i> ₁₃₄	260.	0.5	1 W
101513	1998 <i>XV</i> ₂₅		HNW	103424	2000 <i>AY</i> ₁₅₅	4.51	0.12	2 W
101549	1998 <i>YY</i> ₂₉	56.7	2 W	103468	2000 <i>AX</i> ₂₀₉	9.32	0.56	1 W
101603	1999 <i>CB</i> ₂	6.790	2 W	103501	2000 <i>AT</i> ₂₄₅	29.95	0.16	2 1A
101610	1999 <i>CW</i> ₇	3.845	N	103502	2000 <i>AF</i> ₂₄₇	5.784	0.37	2 W
101625	1999 <i>CP</i> ₂₀	4.544	2 W	103515	2000 <i>BR</i> ₄	4.921	0.68	2 W
101643	1999 <i>CU</i> ₅₁	9.249	2 W	103520	2000 <i>BB</i> ₆	5.017	0.66-0.72	2 W
101663	1999 <i>CW</i> ₈₄	6.374	2 W	103537	2000 <i>BO</i> ₁₇	9.310	0.33	2 W
101668	1999 <i>CR</i> ₉₅	16.54	3 B?W	103541	2000 <i>BU</i> ₁₈	7.11	0.84	2- W
101673	1999 <i>CE</i> ₁₀₄	5.444	2 W	103579	2000 <i>CZ</i> ₃	66.444	0.63	2 W
101703	1999 <i>CA</i> ₁₅₀	3.8953	3- W	103695	2000 <i>CL</i> ₇₅	5.084	0.27	2 W
101726	1999 <i>EJ</i> ₆	56.713	2 W	103708	2000 <i>CD</i> ₈₄	6.011	0.15-0.21	2 W
101734	1999 <i>FU</i> ₁	8.069	2 W	103717	2000 <i>CS</i> ₉₁	12.668	0.09	1 W
101769	1999 <i>FF</i> ₅₂	8.7	2 D	103754	2000 <i>CP</i> ₁₂₂	5.081	0.85	2 W
101771	1999 <i>FB</i> ₅₈	4.69	2+ W	103759	2000 <i>CG</i> ₁₂₅			W
101810	1999 <i>JA</i> ₆	4.44	2 W	103914	2000 <i>DR</i> ₆₀	7.905	0.22	3- W
101812	1999 <i>JD</i> ₇	7.420	2 NA	103929	2000 <i>DU</i> ₆₄	19.088	0.50	2 W
101867	1999 <i>LR</i> ₁₅	9.472	2 W	103930	2000 <i>DG</i> ₆₅	4.397	0.70	2 W
101878	1999 <i>NR</i> ₂₃	5.413	3 W	103938	2000 <i>DU</i> ₆₈	5.96	0.19	2 W
101879	1999 <i>NP</i> ₂₆	11.547	1 W	103944	2000 <i>DE</i> ₇₁			HNW
101924	1999 <i>RD</i> ₁₈	4.231	2 W	103980	2000 <i>DT</i> ₈₅	4.310	0.51	2 W
101935	1999 <i>RV</i> ₂₂	5.786	1 W	104016	2000 <i>DH</i> ₁₀₈	8.89	0.29	2 W
101943	1999 <i>RS</i> ₂₄	2.782	2 W	104057	2000 <i>EU</i> ₁₇	7.290	0.40	2 W
101950*	1999 <i>RB</i> ₂₉	5.81	3- W	104103	2000 <i>EW</i> ₄₃	13.33	0.50	2- W
101954	1999 <i>RY</i> ₃₃	2.194	2 W	104108	2000 <i>EH</i> ₄₅		0.54	W
101955* Benu	4.2968	0.1 -0.35	3 p A	104113	2000 <i>EJ</i> ₄₉	5.143	0.57	2 W
101974	1999 <i>RC</i> ₄₉	2.274	2 W	104127	2000 <i>EG</i> ₅₉	8.50	0.85	2 W
101978	1999 <i>RZ</i> ₅₂	5.42	2 W	104182	2000 <i>EB</i> ₉₆	195.786	0.71	2 W
102024	1999 <i>RY</i> ₉₄		HNW	104188	2000 <i>EW</i> ₉₉	50.097	0.83	2 W
102032	1999 <i>RC</i> ₁₀₆	5.659	2 W	104189	2000 <i>EQ</i> ₁₀₀	3.89	0.19	2 W
102063	1999 <i>RR</i> ₁₃₄	7.53	2+ W	104193	2000 <i>EO</i> ₁₀₂	2.7065	0.08	2- W
102069	1999 <i>RF</i> ₁₃₉	5.00	3- W	104218	2000 <i>EU</i> ₁₁₉	3.640	0.49	2 W
102087	1999 <i>RT</i> ₁₅₁	8.437	2 W	104245	2000 <i>ED</i> ₁₃₅	3.07	0.33	2 W
102112	1999 <i>RR</i> ₁₆₇	6.681	2 W	104293	2000 <i>EN</i> ₁₆₆	3.398	0.51	2 W
102115	1999 <i>RZ</i> ₁₆₈	2.989	2 W	104296	2000 <i>ET</i> ₁₆₉	167.346	0.09	1 W
102120	1999 <i>RO</i> ₁₇₂	4.890	2 W	104465	2000 <i>GS</i> ₁₃			HNW
102129	1999 <i>RM</i> ₁₇₉	44.408	2 W	104505	2000 <i>GR</i> ₃₉	158.468	0.63	2 W
102161	1999 <i>RM</i> ₂₁₇	3.724	2 W	104551	2000 <i>GU</i> ₆₃	7.78	1.04	1 DAW
102189	1999 <i>SX</i> ₁	9.898	2 W	104579	2000 <i>GW</i> ₈₀	5.93	0.84	2 W
102312	1999 <i>TA</i> ₉₈	10.359	2 W	104624	2000 <i>GD</i> ₁₁₂	3.649	0.09	1 W
102333	1999 <i>TK</i> ₁₁₂	7.16	2 W	104626	2000 <i>GT</i> ₁₁₂	5.096	0.79	2 W
102358	1999 <i>TN</i> ₁₃₄	17.695	2 W	104643	2000 <i>GY</i> ₁₂₂	5.647	0.80	2 W
102380	1999 <i>TE</i> ₁₅₀	63.867	2 W	104653	2000 <i>GB</i> ₁₃₄	10.814	0.52	2 W
102405	1999 <i>TP</i> ₁₇₂	4.329	2 W	104683	2000 <i>GF</i> ₁₅₄	9.249	0.09	1 W
102423	1999 <i>TJ</i> ₁₉₂		HNW	104718	2000 <i>GQ</i> ₁₇₄	7.57	0.71	2 W

MINOR PLANET LIGHTCURVE PARAMETERS

Planet	Period	Variation	Note	Planet	Period	Variation	Note
104722 2000 GU ₁₇₅	>8.	>0.11	2 N	106661 2000 WH ₁₄₄	5.40	0.72	2 W
104729 2000 GT ₁₈₁	10.368	0.76	2 W	106690 2000 WK ₁₅₈	3.054	0.10	1 W
104748 2000 HO ₁₂			HNW	106692 2000 WF ₁₅₉			HNW
104763 2000 HT ₂₂			HNW	106711 2000 WE ₁₇₃	3.474	0.08	1 W
104782 2000 HJ ₃₂	9.509	0.54	2 W	106721 2000 WJ ₁₇₇	9.219	0.82	2 W
104844 2000 HE ₇₂	5.58	0.68	2- W	106723 2000 WE ₁₇₉	368.455	0.74	2 W
104851 2000 HH ₇₅	8.241	0.31	2 W	106757 2000 XW ₅	17.371	0.44	2 W
104900 2000 JL ₇	4.49	0.19	2+ W	106784 2000 XQ ₂₁	6.190	0.60	2 W
104912 2000 JB ₁₅	4.443	0.28	2 W	106790 2000 XW ₂₃	43.152	0.07	1 W
104957 2000 JR ₄₉	4.244	0.25	2 W	106802 2000 XX ₃₂	80.401	0.81	2 W
104984 2000 JL ₇₇	3.09	0.39	1+ W	106807 2000 XE ₃₇	40.062	0.62	2 W
104997 2000 KS ₂	28.388	0.71-0.74	2 W	106818 2000 XV ₄₄	19.982	0.58	2 W
104998 2000 KT ₂	16.8	0.39	2 W	106821 2000 XX ₄₅	5.484	0.34	2 W
105023 2000 KD ₃₀	4.66	0.84	2 W	106836 2000 YG ₈	20.1	0.58	2 W
105026 2000 KX ₃₀	4.25	0.52-0.60	2 W	106845 2000 YR ₁₄	86.126	0.84	2 W
105047 2000 KG ₅₂			W	106854 2000 YB ₂₁	5.473	0.65	2 W
105063 2000 KZ ₆₂	5.006	0.54	2 W	106866 2000 YQ ₂₈	5.228	0.79	2 W
105131 2000 MD ₃			HNW	106914 2000 YO ₅₁	9.008	0.28	2 W
105140 2000 NL ₁₀	6.9269	0.47-0.55	3 W	106984 2000 YJ ₉₈	5.25	0.60	1 W
105155 2000 NG ₂₆	5.62	0.15-0.15	2 W	106999 2000 YG ₁₀₉	5.408	0.58	2 W
105158 2000 OL	3.136	0.20-0.23	3 W	107012 2000 YS ₁₁₃	2.73	0.23	2 W
105218 2000 OJ ₅₇	3.872	0.19	2 W	107016 2000 YK ₁₁₅	5.894	0.56	2 W
105291 2000 QY ₄₇	5.19	0.85-1.35	2+ W	107026 2000 YQ ₁₁₈	2.789	0.41	2 W
105312 2000 QC ₇₁	8.91	0.89	2+ W	107062 2001 AP ₁₀	7.48	0.72	1 DAW
105356 2000 QF ₁₀₈	5.218	0.63	2 W	107084 2001 AQ ₂₄	4.449	0.64	2 W
105375 2000 QC ₁₂₉	6.529	0.62	2 W	107110 2001 AG ₃₇	5.981	0.21	2 W
105411 2000 QQ ₁₅₄	2.94	0.26	2- W	107140 2001 BC ₅	3.473	0.09	1 W
105427 2000 QL ₁₇₃	15.514	0.28	2 W	107239 2001 BS ₅₆	87.766	0.49	2 W
105473 2000 QA ₂₁₁	4.574	0.73	2 W	107270 2001 BN ₇₀	57.821	0.08	1 W
105542 2000 RR ₄₀	11.928	0.64	2 W	107273 2001 BT ₇₁	5.93	0.78	3- W
105546 2000 RM ₄₄	3.78	0.10	1 W	107309 2001 CU ₈	17.216	0.44	2 W
105547 2000 RX ₄₄	3.01	0.41	2 W	107355 2001 CP ₂₇	78.211	0.42	2 W
105556 2000 RU ₅₃	29.958	0.76	2 W	107373 2001 CR ₃₁	19.424	0.44	2 W
105625 2000 SG ₄	4.59	0.82	2 W	107381 2001 CP ₃₉	6.376	0.88	2 W
105631 2000 SU ₇	65.032	0.82	2 W	107426 2001 DL ₁₃	3.598	0.16	2 W
105654 2000 SX ₂₆	348.741	0.70	2 W	107448 2001 DS ₁₉	5.551	0.55	2 W
105695 2000 SC ₆₃	4.698	0.52	2 W	107579 2001 DF ₉₆	9.069	0.42	2 W
105742 2000 SH ₉₀	32.372	0.71-0.97	2 W	107587 2001 DA ₁₀₁	4.165	0.41	2 W
105774 2000 SX ₁₁₁	10.04	0.78	2- W	107632 2001 EX ₁₁	5.52	0.73	2+ W
105775 2000 SY ₁₁₂	3.69	0.60	2 W	107668 2001 FY ₄	32.9	0.06	1 W
105777 2000 SX ₁₁₃	6.442	0.71-0.94	2 W	107693 2001 FE ₁₅	13.674	0.75	2 W
105832 2000 SM ₁₄₈	8.579	1.23	2 W	107750 2001 FY ₃₅	5.605	0.42	2 W
105841 2000 ST ₁₅₅	9.231	0.61	2 W	107849 2001 FV ₇₆	5.668	0.39-0.40	2 W
105844 2000 SH ₁₆₀	38.26	1.45	2 T0	107855 2001 FU ₇₈	114.598	0.37	2 W
105892 2000 SO ₁₈₃	5.366	0.55	2 W	107901 2001 FY ₉₅	5.007	0.65	2 W
105955 2000 SU ₂₄₉	5.758	0.71	2 W	107924 2001 FO ₁₀₃	3.599	0.48	3- W
106021 2000 SX ₂₉₄	8.873	0.76	2 W	107991 2001 FK ₁₃₆	2.299	0.07	1 W
106052 2000 ST ₃₁₂	8.805	0.81	2 W	107998 2001 FM ₁₃₇	6.452	0.66	2 W
106054 2000 SN ₃₁₃	5.409	0.57	2 W	108004 2001 FS ₁₃₈	8.764	0.60-0.78	2 W
106058 2000 SE ₃₁₆	12.793	1.03	2 W	108031 2001 FC ₁₅₂	3.590	0.21	2 W
106069 2000 SJ ₃₃₀	2.557	0.09	1 W	108040 2001 FA ₁₅₅	3.338	0.04	1 W
106095 2000 SP ₃₆₉	13.48	0.29	2 W	108067 2001 FO ₁₆₅	109.334	0.73	2 W
106121 2000 TP ₃₃	8.48	0.98	3 W	108074 2001 FK ₁₆₉	8.691	0.34	2 W
106151 2000 TR ₅₆	6.834	0.77	2 W	108081 2001 FM ₁₇₁	31.386	0.67	2 W
106203 2000 UB ₂₃	5.69	0.79	2+ W	108111 2001 FY ₁₉₄	2.861	0.29	2 W
106206 2000 UR ₂₉	7.317	0.04	2 A	108163 2001 HA ₆	383.502	0.71	2 W
106241 2000 UC ₄₇	5.397	0.27	2 W	108177 2001 HW ₁₂	10.349	0.46-0.58	2 W
106263 2000 UG ₆₂	12.558	0.75	2 W	108184 2001 HH ₁₅		1.36	W
106275 2000 UY ₆₉	38.293	0.26-0.30	2 W	108190 2001 HL ₁₆	8.384	0.48	2 W
106322 2000 UQ ₉₉	6.570	0.50	2 W	108196* 2001 HW ₂₀	2.737	0.20	2- W
106328 2000 UV ₁₀₂	10.21	0.38	2 W	108204 2001 HX ₂₂	2.49	0.16	2 W
106395 2000 VL ₂₄			HNW	108227 2001 HY ₃₆	9.845	0.71	2 W
106400 2000 VO ₂₇	6.674	0.71	2 W	108270 2001 HL ₅₆	2.939	0.48	2 W
106408 2000 VK ₃₀	4.000	0.75	2 W	108304 2001 JP	7.591	0.29	2 W
106414 2000 VM ₃₂	16.731	0.23	2 W	108352 2001 KT ₉	2.394	0.14	2 W
106448 2000 VN ₅₆	4.020	0.09	1 W	108353 2001 KH ₁₀	6.255	0.11	2 W
106474 2000 WZ ₁₃			HNW	108365 2001 KU ₁₅	5.114	0.62	2 W
106480 2000 WX ₁₈	2.753	0.10	1 W	108438 2001 KY ₄₃	17.466	0.55-0.75	2 W
106538 2000 WK ₆₃	51.2	0.60	2 W	108445 2001 KZ ₄₆	2.716	0.27	2 W
106570 2000 WY ₈₉	6.927	0.65-0.67	2 W	108447 2001 KN ₄₇	6.390	0.41	2 W
106574 2000 WH ₉₄	40.171	0.68	2 W	108465 2001 KB ₅₆	15.458	0.39	2 W
106589* 2000 WN ₁₀₇	3.101	0.07	2- W	108472 2001 KF ₅₇	2.146	0.08	1 W
106590 2000 WQ ₁₀₇	21.67	0.16	NA	108479 2001 KE ₆₀	8.167	0.33-0.37	2 W
106595 2000 WT ₁₀₉	3.347	0.60	2 W	108486 2001 KL ₆₂	21.431	0.71	2 W
106598 2000 WZ ₁₁₂	5.981	0.54	2 W	108496 2001 KD ₆₄	5.475	0.80	2 W
106604 2000 WN ₁₁₄	5.025	0.61	2 W	108497 2001 KJ ₆₄	5.42	1.24	2 W
106615 2000 WY ₁₂₁			HNW	108516 2001 KR ₇₅	6.681	0.72-0.75	2 W
106620 2000 WL ₁₂₄	104.5	0.58	2 T-	108519 2001 LF	4.495	0.10	N
106637 2000 WU ₁₃₂	3.908	0.38	2 W	108521 2001 LL	7.80	0.44	2 W
106647 2000 WC ₁₃₅	411.094	0.07	1 W	108522 2001 LQ	8.359	0.95	2 W

MINOR PLANET LIGHTCURVE PARAMETERS

Planet	Period	Variation	Note	Planet	Period	Variation	Note				
108528	2001 LQ ₂	5.5	0.75	2+	110153	2001 SV ₁₅₈	15.179	0.31	2	W	
108532	2001 LJ ₄	4.567	0.67	2	W	110212	2001 SR ₂₁₄	3.403	0.65	2	W
108543	2001 LL ₉	2.67	0.10	2	W	110217	2001 ST ₂₂₀	4.829	0.65	2	W
108549	2001 LJ ₁₁	8.879	0.52	2	W	110245	2001 ST ₂₃₄	5.68	1.05	1+	W
108553	2001 LS ₁₂	3.602	0.30-0.43	2	W	110280	2001 SS ₂₅₄	5.55	0.72	2	W
108592	2001 MC ₁₃	208.076	0.08	1	W	110395	2001 TO ₈	27.634	0.10	1	W
108616	2001 ML ₂₅	2.050	0.08	1	W	110411	2001 TQ ₁₅	5.42	0.21	2	W
108658	2001 ND ₂₀	7.051	0.38	2	W	110427	2001 TE ₂₅	13.532	0.70	2	W
108671	2001 OW ₂	14.959	0.54	2	W	110432	2001 TE ₂₇	3.44	0.70	2-	W
108677	2001 OV ₅	10.864	0.08	1	W	110448	2001 TP ₃₈	4.838	0.66	2	W
108704	2001 OW ₁₇	3.078	0.27	2	W	110465	2001 TT ₅₁	15.00	0.92	1	DAW
108797	2001 OV ₆₉	5.460	0.54-0.55	2	W	110472	2001 TK ₅₅	7.692	0.41	2	W
108806	2001 OK ₇₄	8.030	0.29-0.31	2	W	110487	2001 TW ₆₁	6.62	0.19	2	W
108818	2001 OM ₇₇	7.102	0.43-0.57	2	W	110492	2001 TE ₆₃	8.653	0.67	2	W
108832	2001 OX ₈₃				HNW	110518	2001 TY ₇₈	13.633	0.57-0.58	2	W
108846	2001 OW ₉₁	2.99	0.45	1		110519	2001 TJ ₇₉	4.263	0.37	2	W
108882	2001 OF ₁₀₆	6.53	0.55	1+	W	110541	2001 TE ₉₆	2.777	0.24	2	W
108892	2001 PM ₂	204.792	0.86	2	W	110558	2001 TX ₁₀₆	3.720	0.21	2	W
108904	2001 PC ₉	30.139	0.40	2	W	110572	2001 TH ₁₁₅	3.19	0.16	2	W
108912	2001 PD ₁₂	8.520	0.24-0.36	2	W	110586	2001 TN ₁₂₂	133.181	0.67	2	W
108930	2001 PQ ₂₂	5.606	0.35-0.36	2	W	110593	2001 TD ₁₂₈	4.288	0.39	2	W
108931	2001 PR ₂₂	14.618	0.68-0.73	2	W	110621	2001 TE ₁₅₁	12.249	0.35	2	W
108938	2001 PP ₂₅	3.166	0.41	2	W	110634	2001 TY ₁₆₅	4.9311	0.26		NA
108973	2001 PV ₄₂	5.5		2	1	110643	2001 TN ₁₆₈	41.459	0.59	2	W
109018	2001 QA ₆	11.29	0.71	2	W	110644	2001 TS ₁₆₈	28.645	0.49	2	W
109076	2001 QS ₂₄	39.574	0.78	2	W	110649	2001 TK ₁₆₉	2.384	0.08	1	W
109104	2001 QV ₃₆	3.542	0.18-0.22	2	W	110664	2001 TK ₁₈₃	8.277	0.38	2	W
109113	2001 QB ₄₁	2.51	0.53	2	W	110708	2001 TG ₂₂₅	6.487	0.74	2	W
109118	2001 OH ₄₂	7.898	0.68	2	W	110755	2001 UT ₁₃	46.9	0.80		NA
109122	2001 QZ ₄₃	3.92	0.44	2	W	110765	2001 UK ₂₃	7.74	0.99	2	W
109131	2001 QV ₅₁				HNW	110777	2001 UZ ₂₉	9.603	0.75	2	W
109137	2001 QO ₅₄	5.58	1.13	2	W	110796	2001 UW ₃₇	9.228	0.38	2	W
109180	2001 QD ₆₇	2.723	0.09	1	W	110826	2001 UN ₅₄	5.349	0.61	2	W
109187	2001 QK ₇₁	19.737	0.60	2	W	110835	2001 UA ₆₅	90.042	0.32	2	W
109204	2001 QE ₈₁	190.100	0.71	2	W	110983	2001 UF ₁₈₉	14.946	0.25	2	W
109211	2001 QO ₈₃	5.106	0.51	2	W	110993	2001 UO ₂₀₅	7.433	0.35	2	W
109220	2001 QE ₈₇	77.375	0.45	2	W	110998	2001 UF ₂₁₉	14.706	0.48	2	W
109233	2001 QV ₉₃	3.972	0.49	2	W	111007	2001 VG ₁	6.783	0.42	2	W
109244	2001 QZ ₉₈	134.423	0.36	2	W	111020	2001 VE ₁₁	3.202	0.16	2	W
109250	2001 QX ₁₀₂	5.940	0.33-0.40	2	W	111033	2001 VK ₂₀	26.200	0.55	2	W
109280	2001 QO ₁₁₈	8.00	0.92	1	DAW	111073	2001 VU ₅₁	5.500	0.23	2	W
109291	2001 QN ₁₂₃	5.870	0.49	2	W	111074	2001 VW ₅₁	130.912	0.77	2	W
109334	2001 QL ₁₄₃	11.71	0.37	2-	W	111086	2001 VP ₆₁	3.922	0.36	2	W
109362	2001 QO ₁₅₇	194.772	0.08	1	W	111094	2001 VA ₆₆	9.06	0.59	1	DAW
109368	2001 QM ₁₅₈				HNW	111102	2001 VF ₇₄	69.260	0.72	2	W
109402	2001 QM ₁₈₀	5.083	0.57	2	W	111139	2001 VS ₉₅	6.74	1.09	3-	W
109423	2001 QJ ₁₉₃	19.805	0.81	2	W	111197	2001 WF ₂₀	3.52	0.73	1+	W
109455	2001 QG ₂₁₀	2.69	0.31	2	W	111208	2001 WW ₃₀	4.861	0.12	2	W
109484	2001 QN ₂₂₃	7.50	0.66	2	W	111246	2001 XD ₄	5.172	0.42	2	W
109510	2001 QM ₂₃₅	5.261	0.64	2	W	111259	2001 XY ₂₂	3.885	0.17	2	W
109512	2001 QA ₂₃₆	10.728	0.56-0.62	2	W	111297	2001 XH ₅₅	8.078	0.49	2	W
109529	2001 QE ₂₄₈	9.674	0.54	2	W	111332	2001 XF ₈₉	6.193	0.74	2	W
109582	2001 QL ₂₇₅				HNW	111334	2001 XM ₉₃	3.802	0.53	2	W
109583	2001 QP ₂₇₅	4.335	0.48-0.61	2	W	111346	2001 XS ₁₀₃	747.709	0.07	1	W
109587	2001 QJ ₂₇₇	208.404	0.54	2	W	111493	2001 YB ₅₃	9.521	0.20	2	W
109596	2001 QK ₂₈₁	4.17	0.44	2	W	111499	2001 YF ₆₁	6.69	0.32	2	W
109625	2001 QK ₂₉₆	51.544	0.56	2	W	111517	2001 YC ₉₂	11.258	0.66	2	W
109653	2001 RS ₇	6.499	0.67-0.68	2	W	111538	2001 YH ₁₂₂	6.143	0.82	2	W
109655	2001 RW ₈	10.086	0.22	2	W	111540	2001 YL ₁₃₁	57.288	0.54	2	W
109663	2001 RO ₁₈	3.84	0.36	2	W	111725	2002 CE ₅₀	8.567	0.70	2	W
109715	2001 RO ₄₈	15.206	0.37	2	W	111744	2002 CY ₉₉	5.82	0.73	2	W
109777	2001 RY ₈₁	7.93	0.93	2	W	111899	2002 FD ₁₁	5.841	0.89	2	W
109791	2001 RL ₉₁				HNW	111950	2002 GM ₅₇	8.104	0.59	2	W
109792	2001 RN ₉₁	>16.			N	111981	2002 GW ₉₃	15.766	0.77	2	W
109829	2001 RK ₁₁₈				HNW	112011	2002 GW ₁₅₈	7.105	0.79	2	W
109871	2001 RD ₁₅₁	5.659	0.26	2	W	112016	2002 GC ₁₆₄	6.696	0.79	2	W
109889	2001 SB ₁₀	4.844	0.31	2	W	112083	2002 JC ₂₆				HNW
109900	2001 SS ₂₀	7.432	0.55	2	W	112191	2002 JU ₁₀₅	2.59	0.26-0.33	2	W
109950	2001 SB ₄₆	27.866	0.29-0.33	2	W	112248	2002 LG ₉	10.74	0.06	2	W
109978	2001 ST ₅₄	>144.	>0.3		HNW	112273	2002 LL ₂₃	3.764	0.51-0.75	2	W
109998	2001 SN ₆₂	8.756	0.08	1	W	112277	2002 LO ₂₅	19.015	0.57	2	W
109999	2001 SZ ₆₂	8.371	0.39-0.42	2	W	112324	2002 MA ₃	110.784	0.59	2	W
110004	2001 SF ₆₄	4.217	0.10	2	W	112329	2002 NY	3.638	0.08	1	W
110047	2001 SM ₉₀	3.30	0.67	2	W	112382	2002 NV ₂₇	3.332	0.22	2	W
110059	2001 SK ₁₀₇	125.176	0.46	2	W	112383	2002 NL ₂₈	14.932	0.69	2	W
110062	2001 SG ₁₀₈	11.393	0.28	2	W	112428	2002 NP ₅₀	92.129	0.86	2	W
110066	2001 SW ₁₀₉	4.970	0.25	2	W	112430	2002 NJ ₅₁	10.878	0.69	2	W
110091	2001 SW ₁₂₀				HNW	112435	2002 OO	5.540	0.71	2	W
110096	2001 SW ₁₂₂	2.681	0.29	2	W	112441	2002 OL ₃	7.378	0.82-0.83	2	W
110119	2001 SP ₁₃₈	147.406	0.48	2	W	112443	2002 OF ₄	3.806	0.69	2	W

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Planet	Period	Variation	Note	Planet	Period	Variation	Note
112465	2002	OR ₁₃		114232	2002	VV ₁₂₃	
112516	2002	PG ₂₆		114249	2002	WO ₁₁	
112560	2002	PD ₄₇		114276	2002	XP ₁₇	
112572	2002	PO ₅₁		114291*	2002	XG ₂₉	
112717	2002	PX ₁₁₅		114297	2002	XC ₃₂	
112745	2002	PK ₁₃₂		114302	2002	XO ₄₆	
112822	2002	QG ₈		114319	2002	XD ₅₈	
112858	2002	QY ₂₉		114332	2002	XX ₆₄	
112888	2002	QR ₄₄		114334	2002	XW ₆₅	
112922	2002	QN ₆₃		114348	2002	XY ₇₄	
112970	2002	RN ₁₉		114367	2002	XA ₈₉	
112985	2002	RS ₂₈		114398	2002	YT ₁₃	
113006	2002	RG ₃₉		114419	2002	YQ ₃₁	
113008	2002	RQ ₃₉		114439	2003	AL ₁₃	
113018	2002	RQ ₄₂		114460	2003	AM ₃₁	
113021	2002	RO ₄₃		114508	2003	AS ₈₂	
113049	2002	RM ₅₂		114541	2003	BP ₂₅	
113077	2002	RR ₆₃		114546	2003	BY ₂₉	
113114	2002	RK ₇₉		114556	2003	BR ₅₀	
113117	2002	RF ₈₀		114561	2003	BP ₅₂	
113132	2002	RM ₈₆		114574	2003	BL ₆₈	
113166	2002	RV ₁₀₀		114592	2003	CU ₂	
113182	2002	RV ₁₀₅		114656	2003	FE ₃	
113187	2002	RN ₁₀₆		114724	2003	GK ₃₆	
113216	2002	RF ₁₁₉		114728	2003	HP ₃	
113268	2002	RE ₁₅₁		114752	2003	HW ₄₁	
113315	2002	RD ₁₉₇		114756	2003	HC ₄₅	
113381	2002	SC ₁₁		114802	2003	NN ₈	
113387	2002	SH ₁₆		114813	2003	OB ₇	
113390	2002	Helvetia		114819	2003	OU ₁₁	
113417	2002	SE ₃₀		114822	2003	ON ₁₅	
113478	2002	ST ₆₃		114830	2003	OX ₂₁	
113489	2002	TW ₂		114831	2003	OG ₂₂	
113507	2002	TS ₇		114901	2003	QK ₂₅	
113515	2002	TT ₁₃		114915	2003	QU ₃₄	
113546	2002	TR ₂₇		114923	2003	QL ₄₀	
113567	2002	TV ₃₆		114935	2003	QF ₅₀	
113584	2002	TT ₄₅		114999	2003	QR ₇₄	
113595	2002	TH ₅₀		115054	2003	RR ₆	
113601	2002	TY ₅₁		115081	2003	SQ ₃	
113606	2002	TO ₅₃		115111	2003	ST ₃₅	
113607	2002	TQ ₅₃		115130	2003	SV ₅₂	
113637	2002	TK ₇₅		115152	2003	SA ₆₈	
113698	2002	TS ₁₂₄		115161	2003	SH ₇₆	
113708	2002	TW ₁₃₀		115220	2003	ST ₁₄₀	
113724	2002	TL ₁₃₈		115222	2003	SK ₁₄₂	
113759	2002	TT ₁₇₁		115233	2003	SH ₁₄₅	
113765	2002	TX ₁₇₂		115358	2003	SY ₂₄₉	
113781	2002	TF ₁₈₈		115359	2003	SA ₂₅₀	
113789	2002	TZ ₁₉₄		115400	2003	SJ ₂₉₁	
113792	2002	TX ₁₉₅		115406	2003	SK ₂₉₄	
113808	2002	TC ₂₀₉		115407	2003	ST ₂₉₄	
113816	2002	TM ₂₁₆		115409	2003	SW ₂₉₄	
113846	2002	TV ₂₃₉		115421	2003	SN ₃₀₆	
113886	2002	TG ₂₆₆		115453	2003	TL ₁₁	
113887	2002	TC ₂₆₇		115464	2003	TO ₁₆	
113916	2002	TJ ₂₈₄		115501	2003	UV ₂₇	
113946	2002	TE ₂₉₈		115504	2003	UH ₂₉	
113963	2002	US ₉		115554	2003	UL ₇₄	
113968	2002	UO ₁₃		115555	2003	UQ ₇₅	
113986	2002	UF ₂₆		115618	2003	UH ₁₁₄	
114005	2002	UQ ₃₆		115694	2003	UT ₁₅₇	
114028	2002	VK ₃		115758	2003	UH ₂₀₆	
114034	2002	VO ₈		115761	2003	UN ₂₀₆	
114068	2002	VT ₂₉		115771	2003	UW ₂₀₈	
114074	2002	VF ₃₃		115807	2003	UJ ₂₃₈	
114077	2002	VM ₃₃		115812	2003	UD ₂₄₃	
114083	2002	VS ₃₅		115837	2003	US ₂₆₀	
114085	2002	VW ₃₅		115887	2003	VT ₁	
114086	2002	VG ₃₆		115953	2003	WJ ₃₅	
114114	2002	VD ₄₈		115978	2003	WQ ₅₆	
114122	2002	VW ₄₉		116044	2003	WE ₁₀₂	
114127	2002	VL ₅₀		116133	2003	WO ₁₄₂	
114132	2002	VH ₅₄		116152	2003	WX ₁₆₅	
114134	2002	VX ₅₅		116183	2003	XD ₆	
114141	2002	VX ₆₀		116232	2003	YW ₅	
114146	2002	VT ₆₂		116254	2003	YR ₂₆	
114151	2002	VD ₆₅		116271	2003	YQ ₃₅	
114174	2002	VN ₇₅		116301	2003	YZ ₆₀	
114205	2002	VF ₁₀₅		116313	2003	YT ₆₅	

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Planet		Period	Variation	Note	Planet		Period	Variation	Note
116401	2003 YA ₁₃₅	31.903	0.68	2 W	118826	2000 SV ₁₅₄	17.6	0.36	2- W
116414	2003 YF ₁₄₁	9.088	0.52	2 W	118850	2000 SL ₂₅₇	5.979	0.59	2 W
116449	2004 AU	15.320	0.20-0.27	2 W	118873	2000 TY ₁₄	3.126	0.39-0.40	2 W
116457	2004 AL ₅	3.10	0.40	3- W	118903	2000 US ₇₂	3.846	0.09	1 W
116496	2004 BH ₁₆	7.662	0.71	2 W	118918	2000 VY ₂₆	5.907	0.47	2 W
116503	2004 BN ₂₃	11.818	0.67-0.68	2 W	118920	2000 VH ₃₁	60.279	0.44	2 W
116524	2004 BP ₄₆	20.965	0.66	2 W	118938	2000 WM ₄₇	7.575	0.38	2 W
116573	2004 BZ ₈₈	9.55	0.20	2- W	118943	2000 WF ₆₇	6.	0.29	1 W
116576	2004 BA ₉₁	4.796	0.75	2 W	118956	2000 WA ₁₀₃	4.045	0.47	2 W
116588	2004 BJ ₉₈	5.61	0.70	2 W	118965	2000 WA ₁₃₈	3.655	0.30	2 W
116591	2004 BT ₁₀₂	2.82	0.21	1 W	118995	2000 YH ₃₄	7.413	0.78	2 W
116652	2004 CX ₂₄	3.66	0.75	2 W	119067	2001 KP ₇₆			HB
116653	2004 CJ ₂₉	8.81	0.48-0.55	2 W	119110	2001 OT ₇₀	8.252	0.88	2 W
116729	2004 DR ₂₂	7.039	0.57	2 W	119128	2001 OY ₁₀₁			HNW
116770	2004 ED ₁₅	3.229	0.42	2 W	119160	2001 QT ₂₃			HNW
116796	2004 EZ ₄₈	4.460	0.61	2 W	119173	2001 QL ₄₉	11.29	0.29	2 W
116844	2004 FR ₄₈	27.434	0.09	1 W	119175	2001 QU ₅₃	108.479	0.71	2 W
116858	2004 FZ ₈₄	9.134	0.79	2 W	119184	2001 QK ₈₇	3.412	0.20-0.21	2 W
116944	2004 GK ₄₄	2.75	0.32	2 W	119187	2001 QA ₉₄	4.420	0.63	2 W
116964	2004 HD ₈	3.868	0.27	2 W	119200	2001 QV ₁₂₄			HNW
116970	2004 HJ ₁₅	11.6	0.72	2 W	119219	2001 QJ ₂₁₁			HNW
116982	2004 HU ₃₀	6.184	0.99	2 W	119223	2001 QB ₂₂₀	5.838	0.54	2 W
116989	2004 HW ₄₂	56.595	0.70	2 W	119245	2001 QD ₂₉₃	4.8249	0.25	3 W
117213	2004 RK ₂₁₄	21.324	0.56	2 W	119320	2001 SH ₁₀₉	12.770	0.08	1 W
117233	2004 SG ₉	62.909	0.89	2 W	119341	2001 SL ₁₆₈	3.106	0.29	2 W
117247	2004 SO ₃₃	50.985	0.86	2 W	119403	2001 TU ₆₂	8.672	0.25-0.30	2 W
117324	2004 WW ₄	30.256	0.71	2 W	119408	2001 TS ₇₀			HNW
117335	2004 XT ₁₁	11.102	0.20	2 W	119409	2001 TH ₇₂	8.74	1.28	1+
117352	2004 XQ ₆₉	6.53	0.72-0.86	2 W	119436	2001 TL ₁₃₅	2.871	0.09	1 W
117401	2005 AL ₈	8.21	0.34	2 W	119437	2001 TZ ₁₃₆			HNW
117482	2005 CD ₂			HNW	119502	2001 UH ₁₂₀	6.650	0.84	2 W
117526	2005 CS ₅₇	6.62	0.90	2 W	119511	2001 UX ₁₃₄	4.90	0.67-0.86	3 W
117545	2005 EN ₅	5.065	0.56-0.60	2 W	119553	2001 VH ₃₆	124.104	0.90	2 W
117599	2005 EL ₆₉	7.11	0.87	2- W	119560	2001 VM ₄₆	8.312	0.49	2 W
117605	2005 EF ₈₆	6.540	0.27-0.95	2 W	119574	2001 VT ₉₀	2.9245	0.24	2 NA
117607	2005 EZ ₈₉	3.435	0.11	2 W	119651	2001 XE ₄₉	2.8458	0.39	N
117634	2005 EJ ₁₂₈	9.350	0.34	2 W	119655	2001 XV ₅₅			HNW
117685	2005 ED ₂₄₇	70.	0.9	1+ W	119744	2001 YN ₄₂	625.	0.52	2+ B?
117687	2005 EX ₂₅₉	15.47	0.18	2 W	119745	2001 YU ₄₄	251.309	0.30	2 W
117813	2005 HO ₃	8.434	0.61	2 W	119761	2001 YK ₁₁₆	6.235	0.81	2 W
117873	2212 P-L	5.718	0.64	2 W	119764	2001 YO ₁₂₁	4.600	0.59	2 W
117919	4537 P-L	9.594	0.10	1 W	119769	2001 YD ₁₃₆	51.565	0.48	2 W
117922	4622 P-L	7.678	0.49	2 W	119936	2002 GC ₂₇	>16.	>0.9	2 W
117944	6257 P-L	10.67	0.34	2- W	119942	2002 GJ ₁₂₉	5.119	0.51	2 W
117970	9590 P-L	51.781	0.57	2 W	119951	2002 KX ₁₄		0.05	N
117982	2134 T-1	6.86	0.60	1 DAW	119975	2002 VB ₁₂₈	33.867	0.68	2 W
118060	4213 T-2	12.00	1.13	1 DAW	119979	2002 WC ₁₉		<0.05	HNW
118066	4317 T-2	8.660	0.34	2 W	120019	2003 AF ₃₉	6.266	0.45-0.55	2 W
118089	1093 T-3	77.984	0.90	2 W	120061	2003 CO ₁	10.0	0.07-0.10	2 DA
118092	1150 T-3	4.909	0.75	2 W	120071	2003 DM ₁₆	9.70	0.45	2 W
118111	2633 T-3	34.086	0.25	2 W	120088	2003 EW ₃₂	4.837	0.50	2 W
118212	1995 XM ₄	12.00	0.37	1 W	120100	2003 EY ₅₇	11.638	0.68	2 W
118217	1996 EO ₇	5.571	0.85-0.87	2 W	120101	2003 FP ₅	5.400	0.52	2 W
118219	1996 HT ₂₀	4.82	0.16	2 W	120111	2003 FN ₃₈	7.742	0.80	2 W
118223	1996 SO ₄	10.121	0.41	2 W	120124	2003 FO ₉₈	3.614	0.35	2 W
118226	1996 TA ₃₀	5.39	0.23	1+ W	120132	2003 FY ₁₂₈	8.54	0.15	2- 1
118228	1996 TQ ₆₆		<0.22		120178	2003 OP ₃₂	9.71	0.13-0.20	2 W
118239	1997 KX	4.642	0.53	2 W	120207	2004 EG ₃₁	5.707	0.48	2 W
118264	1998 FB ₁₀₅	3.10	0.27	1+ W	120218	Richardberry	7.014	1.08	2 W
118267	1998 HR ₅₆	8.197	0.59	2 W	120279	2004 HG ₁₈	3.9	1.1	2- W
118293	1998 SV ₆₂	16.235	0.29	2 W	120320	2004 LL ₁₇	10.042	0.85	2 W
118299	1998 SD ₁₄₈	6.625	0.45	2 W	120347	Salacia	6.09	0.03-0.06	2 IAB
118337	1999 BQ ₉	2.858	0.36	3 W	120348	2004 TY ₃₆₄	11.70	0.22	2+ W
118362	1999 FS ₁₇	6.188	0.12	2 W	120358	2005 MN ₃₆			HNW
118400	1999 RB ₆₃	10.149	0.36	2 W	120375	Kugel	6.923	0.09	1 W
118405	1999 RM ₁₀₄	7.042	0.36	2 W	120480	1992 RS ₇	10.245	0.37	2 W
118417	1999 TW ₁₂	3.355	0.46	2 W	120506	1993 TO ₁	7.446	0.40	2 W
118423	1999 TJ ₈₄	24.859	0.77	2 W	120528	1994 PD ₁₂	94.322	0.86	2 W
118555	2000 FH ₄	6.96	0.76	2 W	120540	1994 SK ₁₃	78.268	0.81	2 W
118567	2000 FQ ₅₉	6.741	0.85	2 W	120556	1995 CG ₁₀	5.85	1.03	2 W
118594	2000 GZ ₈₉	5.325	0.73-0.87	2 W	120559	1995 EB ₂	2.77	0.25	2 W
118612	2000 GU ₁₄₃	8.909	0.57-0.72	2 W	120578	1995 QV ₁₂	72.4	0.51	2 T?
118625	2000 HF ₂₈	4.733	0.75	2 W	120586	1995 SE ₂₅	3.69	0.49	2 W
118633	2000 HM ₅₇	4.26	0.17	2 W	120635	1996 HE ₁₆	5.03	0.61	2- W
118668	2000 KS ₄₃	2.544	0.07	1 W	120647	1996 SZ ₃	16.875	0.07	1 W
118733	2000 QN ₁₂₅	15.502	0.28	2 W	120672	1997 AK			HNW
118756	2000 QK ₂₀₀	11.16	0.38	2 W	120678	1997 BB ₄			HNW
118787	2000 RA ₉₉	9.019	0.55	2 W	120681	1997 BB ₆	2.87	0.36	2 W
118795	2000 SO ₂₉			HNW	120768	1998 BM ₂₉	17.222	0.65	2 W
118805	2000 SB ₅₆	7.854	0.75	2 W	120783	1998 EN ₁₉	6.616	0.97	2 W

MINOR PLANET LIGHTCURVE PARAMETERS

Planet	Period	Variation	Note	Planet	Period	Variation	Note
120785 1998 <i>FT</i> ₃	4.590	0.41-0.50	2 W	123005 2000 <i>SZ</i> ₂₅₈			HNW
120815 1998 <i>HB</i> ₄₂	2.25	0.35	2 W	123034 2000 <i>SG</i> ₂₈₈	15.070	0.14	2 W
120915 1998 <i>SX</i> ₈₁	7.32	0.66	1 DAW	123054 2000 <i>SH</i> ₂₉₈	8.38	0.37	2 W
120928 1998 <i>SP</i> ₁₀₉	10.7	0.5	1+	123104 2000 <i>SV</i> ₃₄₈	351.909	0.42	2 W
120960 1998 <i>VC</i> ₃	6.36	0.91	2 W	123107 2000 <i>SF</i> ₃₅₀	5.350	0.58	2 W
120961 1998 <i>VJ</i> ₄	5.82	0.45	2 W	123144 2000 <i>TY</i> ₁₉	6.91	0.23	2 W
121005 1998 <i>YM</i> ₃₁	17.12	0.64	2 W	123150 2000 <i>TJ</i> ₃₂	4.25	0.93	2+ W
121017 1999 <i>BG</i> ₄	9.23	0.78	2 W	123184 2000 <i>UQ</i> ₆	146.441	0.66	2 W
121052 1999 <i>CP</i> ₅₁	6.910	0.10	1 W	123191 2000 <i>UT</i> ₁₄	3.69	0.83	2- W
121073 1999 <i>EL</i> ₁₂	>24.	>0.20	1 W	123219 2000 <i>UC</i> ₄₁			HNW
121103 Ericneilsen	17.181	0.47	2 W	123241 2000 <i>UL</i> ₆₀	3.04	0.42	2 W
121107 1999 <i>GF</i> ₅	27.342	0.70	2 W	123263 2000 <i>UO</i> ₇₈	13.889	0.45	2 W
121145 1999 <i>JT</i> ₅₉	16.158	0.43	2 W	123267 2000 <i>UK</i> ₈₂	9.048	0.66	2 W
121192 1999 <i>NC</i> ₂₂	11.16	0.38	2 W	123329 2000 <i>VC</i> ₃₁	4.575	0.08	1 W
121197 1999 <i>NB</i> ₃₃	4.739	0.37	2 W	123336 2000 <i>VD</i> ₄₅	55.978	0.63	2 W
121269 1999 <i>RK</i> ₁₀₈	3.299	0.37	2 W	123353 2000 <i>WV</i> ₄			HNW
121293 1999 <i>RL</i> ₁₈₂	539.627	0.52	2 W	123404 2000 <i>WS</i> ₈₈	15.60	0.26	1 DAW
121306 1999 <i>RQ</i> ₂₀₇	4.365	0.47	2 W	123423 2000 <i>WV</i> ₁₀₇	2.839	0.28	2 W
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 TO
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 TO	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

MINOR PLANET LIGHTCURVE PARAMETERS

Planet				Planet							
Planet	Period	Variation	Note	Planet	Period	Variation	Note				
125314	2001 VW ₃₄	4.266	0.48-0.52	2	W	127749	2003 FS ₁₆	6.203	0.26	2	W
125324	2001 VY ₄₁	47.434	0.22	2	W	127817	2003 FK ₈₈	8.332	0.58	2	W
125336	2001 VA ₄₉	26.220	0.06	1	W	127876	2003 GN ₂	3.38	0.43	2	W
125390	2001 VZ ₈₄	9.14	0.53	2	W	127955	2003 HY ₁₃	2.31	0.73	2	W
125397	2001 VD ₉₈	3.683	0.21	2	W	127963*	2003 HO ₂₁	2.29	0.12	1+	W
125435	2001 VM ₁₁₅	26.67	0.60	1	W	127993	2003 HU ₄₈	2.916	0.35	2	W
125539	2001 WN ₉₀	8.07	0.21	2	W	128014	2003 JR ₁₀	16.294	0.72	2	W
125540	2001 WO ₉₀	11.071	0.51	2	W	128018	2003 JA ₁₄	8.083	0.36		NA
125579	2001 XT ₂₄	2.92	0.17	2	W	128046	2003 MY ₁	8.312	0.81-0.89	2	W
125598	2001 XF ₄₅	9.072	0.13	2	W	128081	2003 OO ₂₁	>18.	>0.15	1	W
125604	2001 XJ ₄₈	10.029	0.15	2	W	128209	2003 SS ₆₅	18.46	0.49	2	W
125617	2001 XX ₅₄	>6.	>0.54		N	128248	2003 SD ₂₁₆	6.91	0.27	2	W
125662	2001 XN ₇₃	4.062	0.74	2	W	128314	Coraliejackman	6.412	0.65	2	W
125668	2001 XL ₇₇	8.65	0.97	2	W	128343	Brianpage	2.4776	0.25		NA
125703	2001 XY ₉₆	6.173	0.55	2	W	128394	2004 LG ₃	21.826	0.37	2	W
125738	2001 XE ₁₁₆	4.09	0.19	2		128543	2004 PO ₆₇	50.182	0.33	2	W
125742	2001 XT ₁₁₇	60.8	0.9 -1.40	3	T?	128603	2004 QP ₁₃	2.530	0.25	2	W
125746	2001 XJ ₁₁₉	5.728	0.59	2	W	128646	2004 RT ₃₆	11.273	0.56	2	W
125776	2001 XX ₁₄₀	6.32	0.73	2	W	128648	2004 RT ₄₂	287.501	0.51	2	W
125779	2001 XL ₁₄₅	11.251	0.28		NA	128691	2004 RL ₈₉	5.132	0.72	2	W
125784	2001 XZ ₁₄₇	13.52	0.97	2-	W	128693	2004 RZ ₉₂	126.449	0.93	2	W
125788	2001 XH ₁₅₁	5.55	0.95	2	W	128778*	2004 RP ₂₀₀	4.13017	0.71	2+	W
125793	2001 XC ₁₅₃	5.11	0.63	2	W	128799	2004 RS ₂₂₅	7.89	0.93	2	W
125828	2001 XT ₁₇₄	5.872	0.42-0.54	2	W	128847	2004 SM ₁₁				HNW
125922	2001 XR ₂₃₄	5.1	0.71		N	128890	2004 SH ₅₉	7.543	0.70	2	W
125925	2001 XE ₂₃₇				HNW	128891	2004 SP ₅₉	9.913	0.43-0.65	2	W
125927	2001 XD ₂₃₈				HNW	128906	2004 TR ₃₄	247.047	0.58	2	W
125979	2001 YU ₂₁	5.29	0.67	2+		128921	2004 TT ₆₆	3.696	0.33	2	W
126043	2001 YE ₇₁	7.221	0.08	1	W	129000	2004 TU ₂₄₇	3.623	0.45-0.49	2	W
126074	2001 YE ₈₅	2.4	0.16	1+		129038	2004 UY ₄	3.362	0.46	2	W
126093	2001 YU ₁₀₁				HNW	129079	2004 VZ ₇₀	3.209	0.52-0.53	2	W
126117	2001 YW ₁₁₃		1.15		W	129100	Aaronammons	6.8	0.71-1.20	3-	W
126154	2001 YH ₁₄₀	13.25	0.19-0.21	2-		129127	2004 XA ₁₆₇	2.071	0.09	1	W
126174	2002 AA ₁₀				HNW	129135	2005 AD ₂₁		1.41		I
126179	2002 AY ₁₃	11.16	0.50	1	DAW	129140	2005 AO ₅₀	9.384	0.32	2	W
126236	2002 AC ₅₉	9.733	0.70-0.72	2	W	129152	Jaystpierre	3.39	0.30	2	W
126242	2002 AX ₆₂				HNW	129158	Michaelmellman	9.791	0.74	2	W
126311	2002 AT ₁₂₃	4.92	0.52	2	W	129221	2005 OC ₄	10.276	0.78	2	W
126334	2002 AW ₁₅₂	3.51	0.35-0.47	2	W	129236	2005 PE ₁₉	3.58	0.21	2	W
126340	2002 AU ₁₅₇	75.127	0.54	2	W	129261	2005 QM ₈₇	12.814	0.65	2	W
126361	2002 AA ₁₇₉	10.84	0.70	1	DAW	129334	2005 UN ₆₈	5.16	0.49	2	W
126363	2002 AR ₁₈₂	3.458	0.09	1	W	129371	6266 P-L				HNW
126406	2002 BG ₁₆	4.485	0.60-0.68	2	W	129404	5021 T-2	29.069	0.77	2	W
126419	2002 BH ₂₉	6.827	0.18	2	W	129442	1981 EC ₁₅	15.67	0.27	2	W
126483	2002 CC ₅₁				HNW	129489	1994 TN ₅	91.092	0.59	2	W
126488	2002 CD ₅₅		0.88		W	129501	1995 HJ ₅	5.106	0.52	2	W
126491	2002 CC ₅₆	2.57	0.17	2	W	129539	1996 NO ₁	4.595	0.86	2	W
126498	2002 CK ₆₁				HNW	129602*	1997 WA ₁₂	43.010	0.28-0.39	2+	H
126505	2002 CA ₆₄	2.989	0.35-0.41	2	W	129690	1998 SF ₁₆	7.38	0.58	2	W
126551	2002 CM ₉₈	5.65	0.53	2	W	129691	1998 SH ₁₆	17.1	0.50	2-	W
126606	2002 CS ₁₄₁	25.038	0.87	2	W	129717	1998 TT ₃₄	2.51	0.26	2	W
126656	2002 CY ₂₀₂				HNW	129816	1999 NC ₂₃	4.47	0.46	2	W
126719*	2002 CC ₂₄₉	11.87	0.79	3		129952	1999 TW ₂₂₀	17.109	0.07	1	W
126763	2002 DN ₁₁				HNW	129989	1999 VS ₅	6.408	0.20	2-	W
126788	2002 EH ₁₉	2.62	0.13	2	W	129997	1999 VH ₂₈	8.8	0.1	1	W
126792	2002 EK ₂₁	3.62	0.72	2	W	130007	Frankteti	7.017	0.51	2	W
126801	2002 EC ₂₉				HNW	130190	2000 AG ₉₀		1.13		I
126884	2002 ET ₉₈	24.584	0.81	2	W	130236	2000 CX ₂₄	26.606	0.49	2	W
126912	2002 EQ ₁₂₂	5.815	0.54	2	W	130254	2000 DJ ₁₄	18.038	0.63-0.64	2	W
126915	2002 EV ₁₂₅	7.630	0.10	1	W	130311	2000 EW ₁₀₅	6.669	0.56	2	W
126935	2002 EN ₁₄₆	6.03	0.55-0.58	2+	W	130335	2000 FZ ₂₆	6.636	0.54-0.56	2	W
126944	2002 FN ₁	2.252	0.13	1+		130362	2000 GY ₈₇	14.049	1.07	2	W
127021	2002 GP ₁₆	8.761	0.38	2	W	130374	2000 GB ₁₆₄	6.598	0.09	1	W
127028	2002 GA ₂₃				HNW	130403	2000 OZ ₁₃	5.152	0.62-0.80	2	W
127054	2002 GD ₄₇	3.20	0.42	2	W	130413	2000 OO ₄₇	15.445	0.23	2	W
127093	2002 GL ₈₁	18.11	0.70	2	W	130422	2000 PZ ₁₅	3.779	0.29-0.44	2	W
127114	2002 GC ₉₈				HNW	130485	2000 QN ₁₀₃	4.85	0.61	2	W
127123	2002 GE ₁₀₂	18.875	0.46	2	W	130532	2000 QB ₂₀₂				HNW
127136	2002 GB ₁₁₀	7.06	0.92	2	W	130535	2000 QU ₂₀₇	13.240	0.36	2	W
127148	2002 GT ₁₂₃	7.50	0.68	2	W	130583	2000 RS ₇₅	5.468	0.15-0.22	2	W
127172	2002 GF ₁₅₄	5.097	0.64	2	W	130623	2000 SP ₄₁	4.505	0.52	2	W
127189	2002 GL ₁₇₂	5.75	0.41	2	W	130682	2000 SM ₁₂₂	5.046	0.59	2	W
127284	2002 JF ₇₀	3.95	0.59	2	W	130723	2000 SO ₂₁₆	14.88	0.75	1	DAW
127288	2002 JV ₇₄	10.30	0.33	2+		130753	2000 SA ₂₇₅	53.595	0.67	2	W
127311	2002 JV ₉₀	2.82	0.3 -0.36	2		130782	2000 TH ₆	6.6	0.98	2	W
127532	2002 WH ₉	D long		1		130809	2000 UJ ₅	170.928	0.71	2	W
127599	2003 BE ₁₈		0.89		W	130820	2000 UH ₁₇	12.980	0.70	2	W
127638	2003 CE ₈	7.127	0.94	2	W	130925	2000 WY ₁₇	5.250	0.66	2	W
127656	2003 DV ₈				HNW	130982	2000 WH ₁₃₀	92.099	1.21	2	W
127693	2003 EG ₂₀	5.39	1.00	2	W	130989	2000 WL ₁₄₂	15.164	0.89	2	W

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Planet	Period	Variation	Note	Planet	Period	Variation	Note
131002 2000 WP ₁₈₈	4.938	0.31	2 W	133857 2004 AB ₁	10.358	0.40	2 W
131007 2000 XL ₈	5.621	0.21	2 W	133862 2004 BR ₃₈	4.414	0.06	1 W
131021 2000 XR ₃₃	26.234	0.58	2 W	133896 2004 RT ₃₅	7.272	0.90	2 W
131029 2000 XV ₄₂	5.961	0.54-0.58	2 W	134052 2004 XL ₂₇	67.960	0.85	2 W
131048 2000 YM ₃₈	11.43	0.83	2 W	134121 2004 YE ₃₀	9.32	0.75	2 W
131076 2000 YC ₁₀₃	5.1	0.10	1+ W	134222 2005 WN ₁₈₈	4.38	0.30	2 W
131128 2001 BX ₃₁	2.85	0.15	2 W	134293 2006 DX ₃₇	13.104	0.41-0.42	2 W
131140 2001 BV ₅₂	13.595	0.39	2 W	134340 Pluto	153.2935	0.11-0.30	3 M
131220 2001 DN ₇₈			HNW	134342 1979 MV ₃	4.71	1.00	2 W
131282 2001 FW ₉₃	5.884	0.50	2 W	134377 1995 SF ₄₀			HNW
131309 2001 FH ₁₅₈	30.2	0.28	2- W	134407 1998 BV ₉	7.090	0.47-0.54	2 W
131336 2001 HP ₃₅	13.185	0.35	2 W	134422 1998 QM ₃	25.4	0.65	2+ T
131365 2001 KN ₁₁	41.632	0.41	2 W	134459 1998 SS ₁₃₁	2.829	0.29	2 W
131381 2001 KU ₃₉	227.405	0.77	2 W	134468 1998 UX ₈	3.467	0.76	2 W
131394 2001 KC ₆₀	6.67	0.50	2 W	134481 1998 VJ ₅₄	4.941	0.81	2 W
131406 2001 LB ₁₂	5.250	0.40	2 W	134483 1998 WK ₂	9.50	0.54	1 DAW
131427 2001 OW ₉₈	3.517	0.34	2 W	134494 1998 XV ₆₇	27.513	0.58	2 W
131477 2001 RN ₉₃	6.32	0.59	2 W	134502 1999 CW ₈₁	10.434	0.09	1 W
131517 2001 TN ₁₂₀	8.747	0.61	2 W	134507 1999 CR ₁₄₂	4.23	0.27	2 W
131594 2001 WL ₉₉	6.40	0.85	2 W	134526 1999 RX ₂₂	19.043	0.10	1 W
131656 2001 XL ₁₁₄	41.430	0.60	2 W	134527 1999 RY ₃₀	80.	>0.6	1 W
131663 2001 XE ₁₅₀	4.78	0.99	2 W	134540 1999 RZ ₉₁	7.899	0.52	2 W
131694 2001 XZ ₂₃₉	2.593	0.08	1 W	134548 1999 RY ₁₅₀	9.546	0.55	2 W
131702 2001 YZ ₃	4.92	0.10	2- W	134549 1999 RN ₁₅₄	124.	0.55	2- T?
131712* 2001 YE ₆₅	25.	0.70	2 W	134553 1999 RK ₁₆₅	151.406	0.45	2 W
131777 2002 AE ₂₁	4.872	0.55	2 W	134554 1999 RE ₁₆₉	4.117	0.40	2 W
131868 2002 AW ₁₅₄			HNW	134555 1999 RN ₁₆₉	122.389	0.29	2 W
131994 2002 CH ₉₅	9.119	0.42	2 W	134585 1999 TN ₅₆	7.942	0.88	2 W
132067 2002 CQ ₁₄₇			HNW	134597 1999 TE ₁₂₈	4.618	0.94-1.15	2 W
132083 2002 CG ₁₆₇	10.688	0.65	2 W	134598 1999 TQ ₁₄₇	5.944	0.65	2 W
132114 2002 CE ₂₂₄	5.672	0.8	3- W	134607 1999 TK ₁₉₇	3.500	0.64	2 W
132115 2002 CL ₂₂₅	6.00	0.94	2 W	134650 1999 VS ₂₉	5.205	0.79	2 W
132216 2002 EU ₆₃	98.029	0.88	2 W	134659 1999 VX ₈₈	4.59	0.29	2 W
132237 2002 EL ₇₉	18.621	0.32	2 W	134661 1999 VT ₁₁₂	6.36	0.63	2 W
132327 2002 GA ₂₄	3.90	0.52	2 W	134669 1999 VC ₁₈₆	5.118	0.63-0.87	2 W
132351 2002 GT ₅₂	5.65	0.64-0.81	2 W	134683 1999 XO ₂₈	13.265	0.42	2 W
132367 2002 GG ₆₈	8.948	0.59	2 W	134696 1999 XZ ₉₆	109.101	0.44	2 W
132394 2002 GW ₉₆	7.38	0.47	2 W	134699 1999 XX ₁₁₈	4.659	0.41	2 W
132435 2002 GL ₁₆₄	8.28	0.48	2 W	134702 1999 XQ ₁₂₅	3.840	0.28	2 W
132450* 2002 HT ₁	10.7	0.89	2- W	134704 1999 XS ₁₅₆	87.027	0.26	2 W
132561 2002 JV ₉₃	5.538	0.48-0.60	2 W	134752 2000 BQ ₃₅	9.441	0.62-0.75	2 W
132597 2002 JM ₁₄₁	7.10	0.26	2- W	134775 2000 DT ₃₄	12.47	0.56	2 W
132598 2002 JG ₁₄₂	10.237	0.92	2 W	134818 2000 GH ₁₈	9.405	0.08	1 W
132636 2002 LC ₃₃	4.968	0.50	2 W	134832 2000 HT ₆₁	2.576	0.07	1 W
132676 2002 NR ₁₄	7.11	0.60	2 W	134860 2000 OJ ₆₇			HB
132699 2002 NY ₄₃	6.100	0.38-0.56	2 W	134873 2000 QR ₈₉	8.889	0.48	2 W
132712 2002 OY ₁₄	5.104	0.80	2 W	134882 2000 RH ₃₁	6.262	0.08	1 W
132718 Kemény	5.89	0.79	2 W	134896 2000 WH ₁₃	4.27	0.55	2 W
132752 2002 PK ₄₉	6.08	0.25	2 W	134965 2001 DQ ₉₉	10.596	0.43	2 W
132809 2002 QO ₃₀	10.55	0.59	2 W	134969 2001 EL ₁	11.510	0.70	2 W
132830 2002 RQ ₇	5.908	0.37-0.40	2 W	135029 2001 MC ₈	9.785	0.56	2 W
132856* 2002 RK ₆₁	9.50	0.20	2 W	135039 2001 OA ₂	4.2057	0.20	1+ W
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 2003 AB ₃	15.29	0.25	2+ W	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 BF 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- W	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- TO

MINOR PLANET LIGHTCURVE PARAMETERS

Planet	Period	Variation	Note	Planet	Period	Variation	Note					
135508	2001 XU ₂₂₆	17.750	0.57	2	W	137359	1999 TS ₁₁₃	5.437	0.56	2	W	
135532	2002 CR ₁₂	8.991	0.38	2	W	137366	1999 TV ₁₂₀	5.522	0.27	2	W	
135559	2002 FE ₃	6.76	0.96	2	W	137381	1999 TQ ₁₄₉	14.930	0.60	2	W	
135576	2002 GS ₅₆	7.22	1.13	2	W	137391	1999 TF ₁₅₈	59.939	0.08	1	W	
135649	2002 KQ ₁₂	4.85	1.11	2	W	137411	1999 TS ₁₈₈				HNW	
135683	2002 OW ₃	3.661	0.26	2	W	137451	1999 TD ₂₈₀	10.07	0.17	1	W	
135691	2002 OS ₂₀	5.867	0.08	1	W	137463	1999 TT ₃₂₀				HNW	
135797	2002 RA ₁₀₁	12.09	0.10	1	W	137464	1999 TV ₃₂₀	13.813	0.35	2	W	
135885	2002 TX ₄₉	5.3	0.33	2	W	137468	1999 UT ₁₁	3.33	0.25-0.27	2	W	
135927	2002 TH ₁₈₀	4.755	0.49	2	W	137504	1999 VO ₂₁	2.538	0.09	1	W	
136017	2002 VH ₇₄	4.3	0.35	2-		137524	1999 VM ₄₉	15.346	0.34	2	W	
136061	2002 XK ₇₅	5.681	0.20	2-	W	137581	1999 VV ₁₃₇	>18.	>0.25	1	W	
136081	2003 AH ₅₇	16.239	0.45	2	W	137598	1999 VA ₁₆₄	9.24	0.1	1	W	
136108	Haumea	3.9154	0.05-0.32	3	B	137605	1999 VK ₁₇₄	28.0	0.40	2	W	
136146	2003 SA ₂₉₄				HNW	137632	Ramsauer	5.263	0.10	1+	W	
136159	2003 UE ₁₅	6.204	0.86-1.00	2	W	137680	1999 XW ₄₅	7.617	0.60	2	W	
136164	2003 UO ₄₇	6.779	0.61	2	W	137689	1999 XB ₆₀	13.52	0.52	1+	DAW	
136173	2003 UU ₁₂₉	9.398	0.25	2	W	137712	1999 XU ₉₆	5.93	0.48	2	W	
136174	2003 UJ ₁₃₂	3.68	0.77	2	W	137718	1999 XA ₁₀₂	8.489	0.08	1	W	
136175	2003 UV ₁₃₂	7.654	0.69	2	W	137726	1999 XL ₁₁₅	13.103	0.77	2	W	
136184	2003 UV ₂₀₉	3.821	0.23	2	W	137736	1999 XX ₁₂₅	67.796	0.60	2	W	
136199	Eris	25.9	0.10	2	B	137774	1999 XP ₂₁₇	5.349	0.53	2	W	
136204	2003 WL ₇	8.24	0.05	2-	1	137777	1999 XN ₂₁₈	7.000	0.76	2	W	
136206	2003 WN ₁₉	86.811	0.09	1	W	137799	1999 YB	9.39	0.31	2+	W	
136209	2003 WF ₂₀	4.802	0.07	1	W	137805*	1999 YK ₅	3.930	0.09-0.38	3-		
136216	2003 WK ₇₁	7.717	0.52	2	W	137845	2000 AT ₃₇	10.062	0.83	2	W	
136217	2003 WK ₇₂	10.206	0.07	1	W	137857	2000 AT ₅₉	4.732	0.45	2	W	
136220	2003 WO ₇₈	5.565	0.62	2	W	137924*	2000 BD ₁₉	10.570	0.67-0.87	3-		
136240	2003 WY ₁₄₃	6.754	0.72	2	W	137925	2000 BJ ₁₉	48.	0.17	2	A	
136251	2003 XD ₁₉	3.22	0.66	2	W	137936	2000 BB ₃₄				HNW	
136259	2003 YH ₄₅	14.296	0.63	2	W	137942	2000 BB ₄₇	6.274	0.55	2	W	
136297	2004 BN ₉	3.43	0.78	2	W	137966	2000 CZ ₂₄	17.462	0.56	2	W	
136302	2004 BL ₁₉	6.564	0.54	2	W	137982	2000 CR ₅₃	4.278	0.62	2	W	
136317	2004 BO ₅₇	55.803	0.56	2	W	137987	2000 CN ₆₁	40.	0.3	1+	W	
136360	2004 DO ₁₉	8.00	0.10	1	W	138095	2000 DK ₇₉	4.243	0.17	3	W	
136381	2004 FU ₄₄	6.27	0.55	2	W	138100	2000 DU ₈₄	2.95	0.31	2	W	
136406	2005 AR ₃₂	8.643	0.58	2	W	138108	2000 DC ₁₀₂	8.97	0.48	2	W	
136465	2005 EA ₂₆₆	12.783	0.72	2	W	138121	2000 EK ₈				HNW	
136472	Makemake	22.48	0.01-0.03	2-	AB	138127*	2000 EE ₁₄	2.586	0.20-0.26	3		
136576	1981 EN ₃₃				HNW	138152	2000 EO ₆₈	4.92	1.00	2	W	
136578	1981 EL ₄₅	5.223	0.41	2	W	138155*	2000 ES ₇₀	5.131	0.16	3-		
136617	1994 CC	2.38860	0.09	3-	RM	138167	2000 EP ₉₉	15.22	0.80	2	W	
136623	1994 PS ₆	7.644	0.30	2	W	138215	2000 EJ ₁₈₁	5.756	0.51	2	W	
136624	1994 PD ₁₄	15.493	0.49-0.56	2	W	138227	2000 FK ₁₆	3.401	0.69	2	W	
136725	1995 UP ₄₀	9.959	0.56	2	W	138238	2000 FQ ₃₀	5.150	0.09	1	W	
136734	1995 VF ₆	21.966	0.40	2	W	138256	2000 FR ₆₉	12.05	0.6	-0.63	2	W
136785	1996 XC ₂	37.614	0.72	2	W	138261	2000 GR ₄	3.558	0.20	2-	W	
136786	1996 XX ₄	17.313	0.88	2	W	138325	2000 GO ₈₂	6.122	0.17	2	A	
136796	1997 BO ₆	9.308	0.34	2	W	138347	2000 GB ₁₁₄	76.715	0.76	2	W	
136805	1997 EM ₃₀	4.766	0.35	2	W	138352	2000 GS ₁₁₆	7.909	0.62	2	W	
136807	1997 EQ ₃₈				HNW	138359*	2000 GX ₁₂₇	3.685	0.06	2	W	
136849	1998 CS ₁	2.765	0.13-0.16	3		138401	2000 HB ₁₃	5.905	0.78	2	W	
136865	1998 FE ₄₁	4.348	0.55-0.66	2	W	138404*	2000 HA ₂₄	3.7768	0.30	2-		
136897	1998 HJ ₄₁	15.3	0.54	2	W	138405	2000 HV ₂₄	7.064	0.74	2	AW	
136923*	1998 JH ₂	15.7	1.22	2	W	138467	2000 JL ₄₄	6.52	0.63	2	W	
136940	1998 QG ₄₅	127.521	0.51	2	W	138491	2000 KE ₂₇	6.010	0.19	2	W	
136949	1998 QE ₁₁₀	5.082	0.67	2	W	138503	2000 KC ₅₈	6.86	0.20	2	W	
136992	1998 SL ₄₅	119.	0.3	1+	W	138522	2000 NW ₁₉	10.80	0.20	3-	W	
136993	1998 ST ₄₉	2.3017	0.11-0.15	3	RB	138524	2000 OJ ₈	2.6835	0.06	2	A	
137032	1998 UO ₁	2.925	0.04-0.16	2	W	138544	2000 QY ₉	5.77	0.72	2	W	
137041	1998 UG ₄₃	5.876	0.74	2	W	138579	2000 QA ₁₃₂	8.97	0.60	2	W	
137051	1998 VA ₂₇	10.532	1.00	2	W	138585	2000 QG ₁₄₀	5.5287	1.00	3	W	
137052*	Tjelvar	9.007	0.18-0.19	3-		138636	2000 RJ ₁₈	8.845	0.87	2	W	
137062*	1998 WM	2.58	0.07	2	W	138666	2000 RX ₉₆	8.6824	0.80-0.88	3	W	
137065	1998 WH ₆	136.942	0.80	2	W	138691	2000 SP ₅₇	199.100	0.49	2	W	
137071	1998 WD ₂₉	6.170	0.66	2	W	138699	2000 SL ₇₇	5.089	0.23-0.26	2	W	
137076	1998 XK ₃	19.645	0.20	2	W	138824	2000 UK ₂₈	3.754	0.28	2	W	
137084	1998 XS ₁₆	5.419	1.18-1.3	3		138846*	2000 VJ ₆₁	2.620	0.18	2	A	
137092	1998 XX ₆₈	4.819	0.08	1	W	138847	2000 VE ₆₂	6.469	0.36	3-		
137158*	1999 FB	6.074	1.18	3		138852	2000 WN ₁₀	4.4622	0.38-0.44	3		
137170	1999 HF ₁	2.3192	0.12-0.26	3	B	138861	2000 WO ₈₇	5.260	0.49	2	W	
137184	1999 JG ₆₃	4.868	0.58	2	W	138870	2000 XP ₁₆	5.775	0.77	2	W	
137199	1999 KX ₄	2.767	0.12-0.30	3		138876	2000 XA ₄₅	8.574	0.47	2	W	
137206	1999 LJ ₃₅				HNW	138877	2000 XG ₄₇	8.71	0.15-0.6	2	N	
137213	1999 NX ₁₀	42.548	0.08	1	W	138883	2000 YL ₂₉	10.60	0.20	2		
137228	1999 RT ₂₀	7.6	0.66	2	W	138893	2000 YH ₆₆	5.30	0.70	3-		
137280	1999 RQ ₁₇₈	62.323	0.86	2	W	138911*	2001 AE ₂	15.88	0.57	2	W	
137283	1999 RQ ₁₈₂	4.594	0.33	2	W	138925*	2001 AU ₄₃	5.251	0.55	2+		
137305	1999 SO ₁₄	5.414	0.71	2	W	138971	2001 CB ₂₁	3.3020	0.19	2	A	
137353	1999 TW ₁₀₄	4.148	0.60	2	W	139016	2001 DU ₅₈	5.842	0.62-0.68	2	W	

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Planet	Period	Variation	Note	Planet	Period	Variation	Note
139043 2001 ER ₆			HNW	141844 2002 OL ₂₂			HNW
139056 2001 FY	5.207	0.40	2	141849 2002 PC	2.295	0.10	1 W
139146 2001 FW ₉₂	37.093	0.84	2 W	141850 2002 PY ₄	10.442	0.35	2 W
139188 2001 FO ₁₄₉			HNW	141887 2002 PR ₅₃	5.878	0.80	2 W
139191 2001 FG ₁₅₂	9.031	0.34-0.35	2 W	141917 2002 PK ₈₂	10.762	0.64	2 W
139201 2001 FC ₁₆₆	7.719	0.87	2 W	141977 2002 PZ ₁₂₇	19.59	0.10	1 W
139216 2001 GB ₁₀	6.151	0.29	2+	142040* 2002 QE ₁₅	3.853	0.10-0.19	2+
139296 2001 KD ₇	8.709	0.27	2 W	142061 2002 QP ₃₁	62.558	0.89	2 W
139312 2001 KO ₂₃	4.003	0.49	2 W	142135 2002 RY ₁₄	46.	0.23	1 W
139317 2001 KY ₂₅	31.366	0.48	2 W	142250 2002 RO ₁₀₂	53.874	0.59	2 W
139345 2001 KA ₆₇	6.10	0.2	N	142260 2002 RL ₁₀₇	3.105	0.50	2 W
139515 2001 PD ₅₃	8.3	0.63	2+	142278 2002 RY ₁₂₀	7.47	0.20	2 W
139537 2001 QE ₂₅	45.	0.1	2-	142348 2002 RX ₂₁₁	5.0689	0.22-0.41	3
139728 2001 QE ₂₅₀	8.8		N	142464* 2002 TC ₉	2.320	0.13	2+
139765 2001 QN ₂₈₈	17.498	0.68	2 W	142503 2002 TT ₃₄			HNW
139775 2001 QG ₂₉₈	13.7744	1.14	3 B?	142516 2002 TD ₄₀	9.294	0.10	1 W
139800 2001 RV ₁₂	5.126	0.45	2 W	142519 2002 TJ ₄₁	2.3280	0.20	3-
139842 2001 RV ₄₃	2.82	0.33	2 W	142530 2002 TL ₄₇	4.390	0.90	2 W
139867 2001 RB ₆₈	87.993	0.84	2 W	142541 2002 TR ₅₁	5.737	0.74	2 W
139878 2001 RT ₈₄	16.052	0.54-0.75	2 W	142548 2002 TG ₅₃			HNW
139888 2001 RC ₈₉	8.87	0.50-0.52	3-	142567 2002 TQ ₇₈	61.	0.6	1+
139938 2001 RQ ₁₃₄	5.40	0.55	2 W	142628 2002 TL ₁₇₁	4.780	0.72	2 W
140008 2001 SS ₄₃			HNW	142631 2002 TH ₁₇₅	4.444	0.53	2 W
140036 2001 SB ₇₁	6.237	0.78	2 W	142659 2002 TX ₂₀₆	14.7	0.20	2-
140037 2001 SA ₇₂	4.9630	0.75	3 W	142686 2002 TJ ₂₃₅	25.842	0.55	2 W
140040 2001 SA ₇₆	5.680	0.69-0.96	2 W	142716 2002 TU ₂₆₆	4.011	0.08	1 W
140041 2001 SZ ₇₇	2.910	0.20	1 W	142723 2002 TW ₂₇₉			HNW
140062 2001 SU ₁₀₃			HNW	142733 2002 TO ₂₈₆	5.098	0.69	2 W
140121 2001 SR ₁₃₉	19.32	0.22	1 W	142746 2002 TS ₂₉₄	5.218	0.91	2 W
140141 2001 SE ₁₅₅	8.91	0.10	1+	142755 Castander			HNW
140158 2001 SX ₁₆₉	3.1430	0.43-0.52	3	142781 2002 UM ₁₁	6.81	0.03	1 A
140170 2001 SL ₁₈₂	7.334	0.56	2 W	142806 2002 UJ ₂₉	14.440	0.66	2 W
140190 2001 SJ ₂₁₄	4.32	0.47	2 W	142814 2002 UR ₃₈			HNW
140194* 2001 SO ₂₁₈	3.30	0.17	2-	142830 2002 VG ₁₁	4.816	0.49	2 W
140220 2001 SH ₂₃₈	10.689	0.52-0.55	2 W	142913 2002 VN ₅₅	5.014	0.60	2 W
140246 2001 SR ₂₅₂	17.770	0.63	2 W	142942 2002 VG ₆₉	3.000	0.18	2-
140251 2001 SN ₂₅₅	6.66	0.73-1.00	3-	142996 2002 VZ ₉₅	7.161	0.20	2 W
140288 2001 SN ₂₈₉	6.58	0.34	2 W	143008 2002 VQ ₁₀₃	3.091	0.40	2 W
140376 2001 TE ₃₇	6.859	0.45	2 W	143033 2002 VN ₁₂₁	15.703	0.63	2 W
140381 2001 TR ₄₆	15.46	0.22	2+	143035 2002 VS ₁₂₁	131.223	0.76	2 W
140391 2001 TQ ₅₅	5.084	0.07	1 W	143081 2002 XC ₅	9.14	0.60	2 W
140428 2001 TT ₉₄	2.5	0.46	2-	143087 2002 XP ₉	12.29	0.28	2 W
140429* 2001 TQ ₉₆	39.8	0.19	2-	143089 2002 XZ ₉	76.088	0.50	2 W
140432 2001 TC ₁₀₂	26.002	0.34	2 W	143103 2002 XK ₂₁	6.208	0.36	2 W
140437 2001 TC ₁₀₆	4.493	0.66	2 W	143114 2002 XK ₂₆	3.731	0.21	2 W
140442 2001 TF ₁₁₄	7.137	0.79	2 W	143116 2002 XT ₂₇	130.095	0.32	2 W
140453 2001 TN ₁₂₃	5.16	0.36	2 W	143127 2002 XW ₃₂	5.824	0.54	2 W
140497 2001 TX ₁₅₃			HNW	143134 2002 XS ₃₇	32.910	0.89	2 W
140546 2001 TZ ₁₉₄	5.798	0.47-0.48	2 W	143156 2002 XC ₅₁	3.855	0.80	2 W
140562* 2001 TS ₂₀₇	5.89	0.74	2 W	143181 2002 XU ₇₅	4.822	0.68	2 W
140645 2001 UO ₂₆	3.17	0.28	2 W	143186 2002 XP ₇₈	3.085	0.09	1 W
140879 2001 VE ₂₀	17.722	0.30	2 W	143205 2002 XQ ₉₂	6.49	0.55	2 W
140923 2001 VX ₆₆	22.300	0.82	2 W	143243 2002 YA ₂₆	7.688	0.28	3
140924 2001 VU ₆₇	6.370	0.44-0.55	2 W	143264 2003 AW ₉	4.25	0.23	2 W
140951 2001 VZ ₉₉	9.964	0.35	2 W	143300 2003 AD ₃₉	20.483	0.10	1 W
140964 2001 VM ₁₀₈	3.17	0.65	2 W	143308 2003 AQ ₄₁	5.471	0.74	2 W
141018 2001 WC ₄₇	16.51	0.18	2 TO	143332 2003 AD ₆₆	5.527	0.81	2 W
141052 2001 XR ₁	7.66	0.88	2+	143404 2003 BD ₄₄	78.64	0.47-1.05	2+
141056* 2001 XV ₄	2.671	0.21	2 A	143409* 2003 BQ ₄₆	10.531	1.14-1.17	3
141061 2001 XN ₉	5.019	0.30	2 W	143423 2003 BL ₅₆	3.102	0.53	2 W
141162 2001 XL ₁₂₇	8.533	0.83-1.03	2 W	143437 2003 BY ₆₆	5.42	0.46	2 W
141215 2001 XO ₂₁₉	9.83	0.34	2+	143439 2003 BM ₆₇	6.534	0.68	2 W
141240 2001 XQ ₂₅₂	>24.	>0.15		143468 2003 CP ₃	7.339	0.69	2 W
141258 2001 YL ₂₀	6.68	0.10	1+	143489 2003 DS ₃	3.30	0.33	1 W
141309 2001 YP ₁₂₀	9.811	0.82	2 W	143490 2003 DL ₃	4.265	0.41-0.56	2 W
141354* 2002 AJ ₂₉	10.801	0.35-0.58	3-	143615 2003 GK ₄	18.038	0.34	2 W
141432 2002 CQ ₁₁	2.605	0.11-0.20	2+	143624 2003 HM ₁₆	32.1	0.50	2
141443 2002 CX ₄₂	19.248	0.38	2 W	143649 2003 QQ ₄₇	3.679	0.19	2-
141486 2002 DZ ₁₀	11.788	0.40	2 W	143651 2003 QO ₁₀₄	114.4	1.20-1.60	3
141495 2002 EZ ₁₁	2.3270	0.06-0.15	3-	143678 2003 SA ₂₂₄	35.	>0.24	T? NATO
141527* 2002 FG ₇	6.306	0.97-1.00	3	143719 2003 UU ₁₇₇	146.258	0.56	2 W
141557 2002 GY ₆₉		1.6	I	143730 2003 UJ ₂₁₁	34.765	0.80	2 W
141593 2002 HK ₁₂	12.690	1.5	N	143794 2003 WY ₁₀₄	11.374	0.44	2 W
141619 2002 JH ₂₆	5.419	0.68-0.81	2 W	143805 2003 WZ ₁₂₂	8.4		N
141627 2002 JM ₃₇	14.241	0.88	2 W	143818 2003 WF ₁₃₈	5.250	0.75	2 W
141635 2002 JV ₅₁	30.166	0.50	2 W	143915 2003 YC ₇₉	6.994	0.43	2 W
141639 2002 JB ₅₅			HNW	143917 2003 YN ₇₉	5.199	0.12	1+
141641 2002 JZ ₅₅	3.691	0.18	1 W	143946 2003 YB ₁₁₇	7.695	0.53	2 W
141670* 2002 JS ₁₀₀	4.693	0.57	2+	143950 2003 YR ₁₂₀	17.105	0.62	2 W
141841 2002 OD ₂₁	6.288	0.35	2 W	143985 2003 YT ₁₅₃	10.019	0.55	2 W

MINOR PLANET LIGHTCURVE PARAMETERS

Planet	Period	Variation	Note	Planet	Period	Variation	Note
144033 2004 BO ₂₂	4.368	0.43	2 W	146217 2000 VX ₅₀	S 6.81211		p N
144034 2004 BM ₂₃	8.544	0.27	2 W	146247 2000 XU ₂₃	5.226	0.69	2 W
144039 2004 BL ₂₅	2.11	0.20	2 W	146322 2001 LM ₁₇	3.213	0.56	2 W
144054 2004 BM ₃₄	10.605	0.79	2 W	146345 2001 OJ ₇₃	4.983	0.55	2 W
144067 2004 BP ₄₄	5.49	1.19	2 W	146354 2001 OK ₁₀₆	5.859	0.67	2 W
144082 2004 BP ₅₁	2.46	0.26	2 W	146451 2001 RP ₂₆			HNW
144093 2004 BZ ₅₆	5.652	0.94-1.05	3 W	146467 2001 RX ₆₃	3.232	0.06	1 W
144106 2004 BW ₇₀	6.08	0.35	2 W	146477 2001 RG ₁₀₃	9.076	0.31	2 W
144135 2004 BE ₉₀	8.839	0.60	2 W	146487 2001 RQ ₁₅₁	3.79	1.18	3- W
144145 2004 BT ₉₃	10.474	0.33	2 W	146579 2001 TF ₈₈	6.956	0.77	2 W
144147 2004 BE ₉₄	6.923	0.88	2 W	146630 2001 UU ₂₃	9.386	0.68	2 W
144159 2004 BH ₁₀₀	6.96	0.42	2 W	146631 2001 UJ ₃₄	8.814	0.75	2 W
144206 2004 CB ₉	26.130	0.78	2 W	146716 2001 WA ₅₁	5.65	1.20	2+ W
144237 2004 CA ₇₃	12.792	0.52	2 W	146717 2001 WU ₆₂	28.627	0.57	2 W
144333 Marcinkiewicz	15.18	0.20	2- W	146732 2001 XH ₅₁			HNW
144410 2004 EF ₉	8.25	0.30	1 W	146828 2001 YL ₁₅₅	4.062	0.77	2 W
144411 2004 EW ₉	49.94	0.9 -1.9	3 T-	146870 2002 AT ₁₈₁	8.670	0.76	2 W
144543 2004 EV ₉₄		0.84	2 W	146883 2002 CF ₂₄	5.158	0.45	2 W
144564 2004 FE ₁₃	138.112	0.87	2 W	146918 2002 CT ₂₂₅	115.657	0.83	2 W
144569 2004 FO ₁₄	3.50	0.22	2 W	146965 2002 JS ₁₁₆	7.488	0.71	2 W
144637 2004 FS ₉₀	6.622	0.39	2 W	146975 2002 NF ₂₆	111.340	0.09	1 W
144881 2004 RM ₉₉	187.592	0.67	2 W	147024 2002 RW ₇	2.565	0.22	2 W
144896 2004 TT ₃₀₈	4.30	0.94	2 W	147037 2002 RZ ₅₁	4.234	0.40	2 W
144897 2004 UX ₁₀	5.68	0.08-0.10	2 W	147041 2002 RE ₆₅		0.61	W
144898 2004 VD ₁₇	1.99	0.21	2 W	147088 2002 SQ ₅₀	7.193	0.22	2 W
144901 2004 WG ₁	8.06	0.65	2- W	147201 2002 VL ₁₁₃	7.471	0.33	2 W
144919 2005 BA ₂₇	5.164	0.49	2 W	147213 2002 WX ₁₃			HNW
144922 2005 CK ₃₈	4.7894	0.27	3 W	147241 2002 XW ₆₂	105.507	0.57-0.67	2 W
144952 2005 EC ₃₈	7.634	0.55	2 W	147269 2002 YP ₁₆	5.52	0.24	2 W
144972 2005 EM ₁₁₉	64.306	0.72	2 W	147270 2002 YT ₁₆	18.46	0.21	2 W
144974 2005 EH ₁₂₅	246.672	0.73	2 W	147276 2002 YZ ₂₉			HNW
144977* 2005 EC ₁₂₇	1.65	0.48-0.50	3 W	147277 2002 YC ₃₁	3.502	0.10	1 W
144997 2005 EH ₁₉₆	6.192	0.52	2 W	147322 2003 BC ₁₅	11.334	0.09	1 W
145003 2005 EZ ₂₀₅	5.224	0.54	2 W	147448 2003 YT ₁₃₆		0.51	W
145064* 2005 GD ₂₃	4.892	0.45	2+ W	147476 2004 CK ₂₄	6.71	0.61	2 W
145092 2005 GR ₆₆	20.051	0.70	2 W	147490 2004 CM ₇₅	29.9	0.20	1 W
145105 2005 GW ₁₀₁	6.23	0.53	2 W	147548 2004 EY ₅₉	4.71	0.19	2 W
145127 2005 GL ₁₄₇	2.93	0.43	1 W	147560 2004 FN ₂₅	261.904	0.86	2 W
145137 2005 GW ₁₆₂	6.353	0.38	2 W	147574 2004 FC ₆₇	3.026	0.26-0.36	2 W
145324 2005 LE ₂₅	8.81	0.87	2 W	147576 2004 FA ₉₄	3.84	0.21	2 W
145376 2005 NA ₆	7.307	0.38	2 W	147616 2004 HS ₉			HNW
145410 2005 NN ₈₇	3.06	0.19	2 W	147716 2005 KY ₁₂	6.950	0.70	2 W
145440 2005 QU ₁₄₃	11.724	0.60	2 W	147833 2005 TW ₄₉	5.809	0.69	2 W
145443 2005 QR ₁₆₅	30.547	0.49	2 W	147880 2006 QV ₁₁₃	2.788	0.07	1 W
145451 2005 RM ₄₃	6.71	0.04-0.05	2 1	147887 2006 RY ₂₆	4.6566	0.80	3 W
145452 2005 RN ₄₃	6.95	0.04-0.06	2 1A	147928 2006 VW ₁₃₇	44.973	0.62	2 W
145453 2005 RR ₄₃	7.87	0.06	2- 1	147937 1038 T-2	5.356	0.52-0.58	2 W
145480 2005 TB ₁₉₀	12.68	0.12	2 1	147946 4084 T-3	13.404	0.56	2 W
145482 2005 UD ₁₃₀	4.138	0.43	2 W	148043 1998 SF ₂₅	3.610	0.40	2 W
145486 2005 UJ ₄₃₈	8.32	0.13	2- A	148062 1998 UB ₅			HNW
145509 2006 DX ₆₅	4.882	0.53	2 W	148107 1999 RR ₁₄₄	4.704	0.53	2 W
145534 Jhongda	4.49	0.67	2 W	148120 1999 TK ₈₅	36.452	0.96	2 W
145553 2006 LN ₅	103.342	0.56	2 W	148150 1999 XK ₇₉	4.106	0.60	2 W
145620 2006 QE ₉₄	5.23	0.82	2 W	148189 2000 BE ₂₂	2.57	0.37	1 W
145635 2585 P-L	6.905	0.25	3 W	148200 2000 CH ₆₉			HNW
145646 4170 P-L	2.27	0.17	1+ W	148203 2000 CW ₈₈	4.803	0.74	2 W
145647 4193 P-L	13.926	0.17	2 W	148208 2000 CD ₁₀₁	6.91	0.24	2 W
145658 6596 P-L	9.124	0.61	2 W	148264 2000 FS ₃₄	4.665	0.53	2 W
145710 1989 SF ₃	16.347	0.40	2 W	148428 2000 WV ₁₆₀	4.191	0.26	2 W
145727 1994 PL ₂₉	1084.883	0.06	1 W	148467 2001 BF ₆₈			HNW
145745 1995 UT ₁₃				148509 2001 ON ₅₈	16.55	0.69	2 W
145789 1998 QJ ₃₁				148539 2001 QH ₁₀₂	5.45	0.41	2 W
145811 1998 ST ₁₀₄	4.506	0.63-0.72	2 W	148552 2001 QR ₁₅₉	3.357	0.50	2 W
145814 1998 SD ₁₄₀	7.698	0.30	2 W	148554 2001 QR ₁₆₃	17.665	0.56	2 W
145898 1999 TT ₁₉₂	6.570	0.25-0.28	2 W	148558 2001 QQ ₁₉₄	3.752	0.40	2 W
145939 1999 XF ₆₁	3.68	0.24-0.30	2 W	148679 2001 SB ₂₁₅	19.383	0.45	2 W
145946 1999 XL ₁₅₁				148740 2001 TS ₁₁₅	92.743	0.42	2 W
145962* Lacchini	4.1180	0.12	2 3	148763 2001 TK ₂₂₅	7.80	1.03	2 W
145970 2000 AA ₃₄	6.271	0.89	2 W	148780 Altjira		<0.3	B
145982 2000 AG ₁₆₁	4.636	0.42	2 W	148844 2001 VA ₂₂	3.1961	0.5	N
145986 2000 AF ₂₂₅				148985 2001 YF ₄₃	8.60	0.36	1 DAW
146010 2000 CN ₇₈	7.16	0.93	2 W	149106 2002 CD ₂₀₆	261.164	0.87	2 W
146021 2000 DB ₄				149114 2002 CX ₂₅₉	4.196	0.69	2 W
146042* 2000 ET ₄	8.66	0.29	2 W	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 W
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

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Planet	Period	Variation	Note	Planet	Period	Variation	Note
149265 2002 TH ₅₃	4.02	0.31	2 W	152779 1999 RL ₁₆₉	3.968	0.52	2 W
149347 2002 VN ₁₂₇	5.324	0.64	2 W	152847 1999 VZ ₁₅₆	8.963	0.34	2 W
149379 2002 XE ₉₉	8.449	0.73	2 W	152858 1999 XN ₃₅	2.990	0.18	2+
149385 2002 YS ₂₃	3.316	0.28-0.29	2 W	152863 1999 XZ ₁₁₄	130.446	0.50	2 W
149405 2003 AD ₅₇	2.97	0.28	2 W	152876* 2000 AZ ₈₂	4.095	0.51	3 W
149445 2003 CQ ₅	8.274	0.67	2 W	152926* 2000 EJ ₇₆	43.	0.70	2- W
149449 2003 CE ₁₀	5.493	0.15	2 W	152931 2000 EA ₁₀₇	4.137	0.28	3
149517 2003 FF ₇₄	6.901	0.75	2 W	152978 2000 GJ ₁₄₇	13.22	0.47	2
149612 2004 EO ₇	109.313	0.80	2 W	153002 2000 JG ₅	6.051	0.85-0.91	3
149686 2004 GB ₃₅	>72.	>1.	HNW	153018 2000 KN ₄₁	4.62	0.74-0.86	2 W
149853 2005 QX ₂₆			HNW	153027 2000 OP	2.19	0.62	2 W
149868 2005 QH ₉₅	11.43	0.68	2 W	153042 2000 QP ₁₄	3.15	0.20	2 W
149896 2005 SD ₁	5.311	0.87	2 W	153103 2000 ST ₃₂	2.76	0.36	2 W
149913 2005 SU ₇₃	4.25	0.38	2 W	153110 2000 SB ₆₆	6.602	0.57	2 W
149931 2005 SY ₁₅₅			HNW	153115 2000 SK ₇₂	6.479	0.83	2 W
150028 2005 VH ₃₃	66.402	0.92	2 W	153123 2000 SW ₉₈	6.336	0.31	2 W
150080 2006 UV ₉	4.728	0.63	2 W	153144 2000 SY ₂₃₀	183.829	0.66	2 W
150103 4262 T-3	6.708	0.32	2 W	153255 2001 BQ ₅₃	8.201	0.88	2 W
150140 1995 YF ₆	17.230	0.18	2 W	153381 2001 QU ₂₄			HNW
150215 1998 SP ₁₁₁	3.763	0.51-0.53	2 W	153412 2001 QR ₁₄₅	4.36	0.45	2 W
150261 1999 RC ₆₈	6.630	0.33	2 W	153462 2001 RE ₂	11.16	0.43-0.7	2
150266 1999 RZ ₁₃₇	5.298	0.30	2 W	153501 2001 RS ₁₂₆	10.674	1.01	2 W
150273 1999 RA ₂₃₃	19.018	0.47	2 W	153517 2001 SO ₁₄	6.705	0.68-0.77	2 W
150324 1999 VM ₁₀₇			HNW	153591 2001 SN ₂₆₃	3.423	0.13-0.22	3 M
150370 2000 CG ₆₅	16.6	0.54-0.76	2	153615 2001 TM ₁₁	4.006	0.45	2 W
150383 2000 DX ₅₀	3.12	0.43	2 W	153633 2001 TM ₆₄	3.98	0.47	2 W
150398 2000 EC ₅₉	8.36	0.35	1+	153634 2001 TS ₆₅	9.14	0.31	2 W
150441 2000 GU ₁₁₈			HNW	153649 2001 TJ ₁₀₂	3.522	0.41	2 W
150483 2000 PQ ₄	4.498	0.57	2 W	153652 2001 TC ₁₀₃	3.0681	0.19	3
150544 2000 SG ₁₆₄	7.626	0.27	2 W	153654 2001 TB ₁₁₃	4.47	0.51	2 W
150608 2000 XG ₄₀	9.003	0.55	2 W	153672 2001 TO ₁₈₉	28.24	0.66	2 W
150626 2001 AG ₇	7.948	0.52	2 W	153695 2001 US ₃₅	18.61	0.34	NA
150634 2001 BY ₂₅	12.441	0.52	2 W	153729 2001 UW ₁₂₂	>8.	>0.1	1 W
150642 2001 CZ ₃₁	4.71	0.21	2 A	153748 2001 UB ₁₆₁	5.55	1.10	2 W
150789 2001 RM ₃₁	5.242	0.61-0.78	2 W	153769 2001 VJ ₂₉	6.32	0.60	2- W
150854 2001 SG ₁₁₀	6.176	0.86	2 W	153793 2001 VF ₇₈	6.932	0.37	2 W
150857 2001 SF ₁₂₀	5.594	0.61	2 W	153797 2001 VH ₉₅	3.53	0.22	2+ W
150875 2001 SD ₂₁₃	20.557	0.68	2 W	153804 2001 VO ₁₁₃	6.86	0.47	2 W
150887 2001 SY ₂₄₈			HNW	153822 2001 WH ₃₇	5.6388	0.18	NA
150896 2001 SC ₂₉₀	8.28	0.56	2 W	153839 2001 XS ₂₀	3.750	0.57	2 W
150975 2001 TV ₁₉₆	5.11	1.10	3 W	153858 2001 XE ₆₄	6.71	0.33	3- W
151036 2001 UE ₁₈₂	4.974	0.36	2 W	153879 2001 XY ₁₄₁	2.3455	0.13	NA
151057 2001 VO ₁₄	20.631	0.6	NA	153881 2001 XH ₁₄₈	5.13	0.41	2 W
151062 2001 VP ₂₈	5.632	0.79-1.13	2 W	153884 2001 XO ₁₅₈	6.506	0.70	2 W
151097 2001 VN ₁₀₈	30.580	0.88	2 W	153890 2001 XL ₁₈₈	6.509	0.43	2 W
151113 2001 WG ₃₂	8.76	0.70	1 DAW	153892 2001 XE ₁₉₆	11.075	0.68	2 W
151138 2001 XL ₄₀	3.782	0.22	2 W	153927 2001 YT ₅₉	56.867	0.42	2 W
151220 2001 YU ₆₈	18.881	0.25	2 W	153937 2001 YG ₉₇	16.313	0.22	NA
151278 2002 AK ₁₈₃	21.682	0.86	2 W	153951* 2002 AC ₃	7.072	0.73-1.09	3
151293 2002 CN ₂₆	8.252	0.47	2 W	153952 2002 AZ ₅	5.50	0.60	1 DAW
151357 2002 CN ₃₀₄	5.601	0.63	2 W	153957 2002 AB ₂₉	2.545	0.24	2+
151540 2002 SR ₁₄	5.87	0.66	2 W	153958 2002 AM ₃₁	2.8174	0.09-0.25	3 B
151566 2002 TJ ₁₆₉	4.066	0.46	2 W	153987 2002 AS ₁₅₀	6.08	0.36	1+ W
151592 2002 VX ₁₁	5.89	0.80	2 W	154026 2002 CW ₃₈	10.709	0.28	2 W
151652 2002 XF ₉₃			HNW	154029 2002 CY ₄₆	2.554	0.07	3
151658 2002 YK	96.847	0.48	2 W	154058 2002 CX ₁₆₁	4.927	0.32	2 W
151775 2003 EV ₃₄	5.583	0.62	2 W	154134 2002 ET ₁₁₁	9.690	0.31	2 W
151801 2003 FK ₅₇	4.32	0.86	3- W	154152 2002 GX ₃	20.558	0.90	2 W
151815 2003 FH ₈₉			HNW	154186 2002 GV ₁₂₁	22.794	0.79	2 W
151827 2003 FX ₁₀₆	4.280	0.63	2 W	154232 2002 JC ₁₀₄	6.836	0.47	2 W
151957 2004 GE ₁₄	20.43	0.45	2 W	154244* 2002 KL ₆	4.6063	0.39-1.15	3 p
152038 2004 OW ₁₂	4.205	0.76	2 W	154275 2002 SR ₄₁	2.283	0.10-0.16	2+
152066 2004 PT ₁₀₈	1.42	0.60	1+ W	154276 2002 SY ₅₀	4.823	0.52	3
152202 2005 QE ₁₄₃	10.130	0.48	2 W	154330 2002 VX ₉₄	8.932	0.65	2 W
152212 2005 RG	7.27	0.54	2 W	154337 2002 VV ₁₂₁	9.717	0.54	2 W
152266 2005 SV ₁₈₀	4.12	0.44	2 W	154347 2002 XK ₄	3.319	0.08	3
152344 2005 UY ₇₅	5.276	0.79	2 W	154367 2002 XE ₇₁	8.694	0.52	2 W
152361 2005 UX ₁₄₀	3.66232		N	154382 2002 YS ₂₆	7.666	0.66-0.73	2 W
152434 2005 UV ₄₃₈	186.984	0.40	2 W	154416 2003 BF ₂₁	5.243	0.45	2 W
152439 2005 UP ₄₄₆	6.462	1.11	2 W	154428 2003 BE ₄₈	15.945	0.49-0.61	2 W
152463 2005 VE ₇₇	3.692	0.48	2 W	154453 2003 CJ ₁₁	5.23	0.08	2
152475 2005 WD ₁₀	6.32	1.10	2 W	154475 2003 EU ₂	13.15	0.50	2 W
152510 2005 XA ₆₄	10.085	0.48	2 W	154487 2003 EZ ₃₅	5.75	0.56	2 W
152564 1992 HF	3.276	0.13	2+ W	154503 2003 FQ ₃₅	5.032	0.70	2 W
152575 1994 GY	16.28	0.34-0.34	2+ W	154508 2003 FC ₄₉	5.96	0.71	2+ W
152641 Fredreed	18.28	0.46	1+ DAW	154555 2003 HA	5.183	0.28-0.36	3
152664 1998 FW ₄	17.38	0.34	3 T	154589* 2003 MX ₂	1.611	0.63	1+
152679 1998 KU ₂	125.	1.35	2 T	154634 2003 XX ₃₈	2.950	0.11	2-
152719 1998 TQ ₁₃			HNW	154639 2003 YJ ₉₀	22.591	0.46	2 W
152756 1999 JV ₃	2.845	0.32	3	154704 2004 JT ₁₉	8.24	0.75	1 DAW

MINOR PLANET LIGHTCURVE PARAMETERS

Planet	Period	Variation	Note	Planet	Period	Variation	Note
154713	2004 LA ₂	8.89	2 W	158235	2001 SV ₂₉₃	11.57	2 W
154752	2004 PL ₄	5.421	2 W	158308	2001 UB ₂₀₆	9.295	2 W
154807	2004 PP ₉₇	161.0	2 T?	158315	2001 VX ₃₂	6.357	2 W
154852	2004 RE ₆₁	9.209	2 W	158345	2001 XE ₆₇	30.369	0.44-0.52 2 W
154987	2004 WJ ₄	6.11	2 W	158393	2001 YD ₄₇	9.095	2 W
154998	2005 NN ₁	2.62	2 W	158553	2002 JS ₁	203.554	0.73 2 W
155006	2005 OU ₁₄	7.93	2 W	158794	2003 SG ₁₄₉	3.81	0.47 1 W
155033	2005 QY ₁₁₆		HNW	158914	2004 RV ₂₆	5.05	0.77 2 W
155037	2005 QP ₁₅₇	5.077	2 W	159073	2004 TP ₂₀₂	4.314	0.50 2 W
155060	2005 SG ₂₈	10.21	2 W	159082	2004 TU ₂₃₇	4.144	0.39 2 W
155095	2005 SJ ₁₉₃	>24.	2 W	159094	2004 TL ₃₀₃	7.93	0.90 2- W
155110	2005 TB	3.479	3	159101	2004 TP ₃₅₁	4.718	0.45 2 W
155140	2005 UD	5.2310	2	159151	2004 XD ₁₀₉	7.56	0.45 2 W
155214	2005 UK ₅₀₈	5.394	2 W	159371	1995 CG ₈	2.92	0.30 2 W
155292	2005 XT ₆₄	2.429	2 W	159399	1998 UL ₁	4.01	0.12 2- W
155296	2005 YJ	7.220	2 W	159402	1999 AP ₁₀	7.908	0.36 3
155334	2006 DZ ₁₆₉	4.682	2+	159404	1999 FX ₃₄	4.708	0.54 2 W
155337	2006 KH ₈₉		I	159410	1999 RU ₁₂₂	6.62	0.65 2 W
155341	2006 SA ₂₁₈	32.8	2+	159414	1999 RN ₁₇₈	8.73	0.76 2 W
155352	2007 CA ₂₅		HNW	159425	1999 TY ₁₅₁	16.717	0.23 2 W
155386	1994 AF ₆	4.71	3-	159439	1999 XR ₁₂	2.891	0.14 2 W
155509	1999 RP ₇₃	21.764	2 W	159454	2000 DJ ₈	14.245	0.25 2
155613	2000 EW ₁₃	5.89	3-	159493	2000 UA	14.517	0.38 3
155655	2000 GG ₁₄₄		HNW	159504	2000 WO ₆₇	7.84	0.20 2
155712	2000 QA ₁₇₅	3.17	2 W	159505	2000 WP ₇₇	4.66	0.71 2 W
155721	2000 QQ ₂₁₄		HNW	159512	2000 YR ₁₀₆	25.504	0.21 2 W
155740	2000 SF ₄₆	17.583	2 W	159533*	2001 HH ₃₁	3.660	0.11-0.15 2 A
155744	2000 SC ₆₁	8.367	2 W	159669	2002 GY ₇₃	6.35	0.27 N
155759	2000 SG ₁₄₀	6.62	2 W	159676	2002 HH ₃	4.297	0.38 2 W
155766	2000 SO ₂₂₃	5.13	1 W	159708	2002 TK ₁₇₉	73.396	0.29 2 W
155806	2000 VE ₂₈	14.66	1 W	159709	2002 TZ ₁₉₁	4.171	0.37 2 W
155833	2000 YB	59.306	2 W	159780	2003 MV ₆	18.098	0.20 2 W
155835	2000 YA ₈	6.499	1 W	159787	2003 OH ₁₉	6.914	0.57 2 W
155842	2000 YC ₈₇	3.751	2 W	159796	2003 QT ₁₀₉	7.130	0.53-0.57 2 W
155972	2001 QW ₂₂₇	6.448	2 W	159799	Kralice	8.42	0.22 2 W
156010	2001 RQ ₇₅	>10.	>0.25 1 W	159844	2003 WA ₁₂	5.980	0.36 2 W
156025	2001 RD ₁₁₅	3.15	2 W	159857	2004 LJ ₁	2.7247	0.15-0.59 3
156094*	2001 SB ₂₁₃	5.45	2- W	159889	2004 TR ₁₄	8.292	0.47 N
156163	2001 TF ₁₁₂	4.015	2 W	159914	2004 VH ₇₀		HNW
156164	2001 TC ₁₁₆	4.123	2 W	160022	1995 YL ₁₁	5.49	0.19 2 W
156172	2001 TG ₁₅₉	6.15	2 W	160028	1998 ET ₅	7.491	0.59 2 W
156230*	2001 UE ₁₁₉	5.60	2+	160036	1998 XH ₇	15.48	0.45 2 W
156347	2001 XS ₁₇₀	10.84	1 DAW	160091	2000 OL ₆₇		HB
156476	2002 CO ₄₉	2.524	2 W	160092	2000 PL ₆	3.0132	0.16 3-
156546	2002 DN ₁₄	4.14	1+ W	160140	2001 DZ ₃		I
156576	2002 EF ₁₃₉	10.54	1 DAW	160149	2001 LC ₁₀	2.50	0.28 2 W
156751	2002 XL ₉₂	6.5287	2 A	160150	2001 MP ₃₀		HNW
156765	2003 AZ ₂₈	7.38	2 W	160228	2002 GQ ₁₁₂	8.564	0.09 1 W
156766	2003 AE ₃₁	5.597	2 W	160246	2002 OV ₂	3.693	0.27 2 W
156799	2003 BD ₁₈		W	160256	2002 PD ₁₄₉		HNB
156902	2003 EQ ₃₁	8.283	2 W	160262	2002 RO ₈	3.228	0.27 2 W
156912	2003 FS ₂₅	2.66	2 W	160264	2002 RF ₆₄	11.45	0.34-0.80 2 A
156926	2003 FQ ₆₁	11.16	2 W	160318	2003 JR ₈	21.83	0.24 NA
157004	2003 OB ₃₃	9.32	1 W	160320	2003 KY ₁₂	4.299	0.37 2 W
157028	2003 QH ₁₀₃	7.564	2 W	160339	2003 SF ₆₆	7.496	0.67 2 W
157124	2004 NJ ₁₃		W	160345	2003 SJ ₁₇₅	13.52	0.28 2 W
157126	2004 NA ₁₇	62.192	2 W	160351	2003 UZ ₈₅	8.671	0.63 2 W
157231	2004 RL ₇₅	2.841	2 W	160353	2003 UV ₁₆₂	11.707	0.65-0.70 2 W
157272	2004 RE ₂₂₄	4.85	1+ W	160468	2006 DZ ₆₇	3.320	0.61-0.66 2 W
157312	2004 SU ₃₂	131.661	0.52 2 W	160559	1998 RS ₅₅	7.80	0.40 2 W
157340	2004 TT ₄₅	19.838	2 W	160581	1999 KH ₁₂	6.91	1.03 3- W
157442	2004 VZ ₁₃	6.160	2 W	160615	1999 TG ₉₇	4.66	0.39 2 W
157481	2005 QS ₇₇		HNW	160684	2000 EL ₁₀		HNW
157494	Durham	14.210	1 W	160734	2000 RS ₂₃	1.360	0.15 1
157527	2005 SU ₂₆₅	6.11	2 W	160781	2000 SK ₂₇₇	3.10	0.37 3- W
157530	2005 TX ₁₇		W	160869	2001 KM ₃₉	6.916	0.10 1 W
157551	2005 UZ ₆₆	5.543	2 W	160957	2002 AD ₁₄₂	5.070	0.28 2 W
157632	2005 WO ₁₆₂	5.978	2 W	161018	2002 EU ₁₀₇		I
157641	2005 XX ₈₁	7.33	2- W	161061	2002 JN ₉₉	4.814	0.87 2 W
157688	2005 YX ₂₁₀	30.702	2 W	161101	2002 PL ₁₅₄	134.613	0.53-0.61 2 W
157770	2007 EO ₅₇	9.23	2 W	161103	2002 PT ₁₆₉	7.760	0.58-0.64 2 W
157794	1994 PP ₁₄	6.737	2 W	161115	2002 RL ₂	8.81	0.86 2 W
157799	1995 SE ₁₃		HNW	161128	2002 RG ₇₇	3.323	0.34 2 W
157800	1995 SS ₁₈	8.112	2 W	161139*	2002 RJ ₁₅₀	6.80	0.64 1 DAW
157900	1999 TW ₁₀₈	225.503	2 W	161143	2002 RR ₁₆₁	5.05	0.91 1+ W
157907	1999 TY ₁₅₄	3.034	2 W	161151	2002 SH ₂₇	19.778	0.69 2 W
157952	2000 CX ₁₁₁	5.085	2 W	161192	2002 TN ₁₉₆	6.963	0.59 2 W
158042	2000 SK ₁₁₂	5.511	2 W	161195	2002 TS ₂₂₇	3.009	0.25 2 W
158125	2001 DQ ₈₇	9.102	2 W	161210	2002 UG ₆	34.207	0.43 2 W
158156	2001 OR ₁₀	9.050	2 W	161221	2002 XJ ₁	104.209	0.42 2 W

MINOR PLANET LIGHTCURVE PARAMETERS

Planet		Period	Variation	Note	Planet		Period	Variation	Note
161224	2002 <i>XP</i> ₄₄			HNW	163434	2002 <i>RY</i> ₇₂	7.22	0.49	2 W
161227	2002 <i>XO</i> ₆₈	8.73	0.29	2 W	163457	2002 <i>RV</i> ₁₃₄			HNW
161236	2003 <i>AK</i> ₂₉	59.201	0.68	2 W	163475	2002 <i>RQ</i> ₂₁₂			HNW
161268	2003 <i>FJ</i> ₆₁	5.93	0.24	2 W	163486	2002 <i>SL</i> ₆	12.846	0.72	2 W
161307	2003 <i>OR</i> ₂	4.570	0.51	2 W	163489	2002 <i>SE</i> ₁₁	8.35	1.03	2 W
161354	2003 <i>SH</i> ₁₄₉	6.032	0.48-0.49	2 W	163502	2002 <i>SA</i> ₄₆	3.89	0.42	2 W
161357	2003 <i>SB</i> ₁₆₂	6.468	0.74	2 W	163509	2002 <i>SU</i> ₆₀	51.959	0.69	2 W
161386	2003 <i>UB</i> ₂₈	64.136	0.86	2 W	163533	2002 <i>TY</i> ₄₆	5.376	0.61	2 W
161391	2003 <i>UF</i> ₉₇	4.47	0.49	2 W	163544	2002 <i>TK</i> ₈₅	12.441	0.40	2 W
161395	2003 <i>UM</i> ₁₃₁	4.722	0.36-0.44	2 W	163546	2002 <i>TL</i> ₉₀	7.339	0.39	2 W
161495	2004 <i>MA</i> ₁	9.682	0.52-0.66	2 W	163554	2002 <i>TU</i> ₁₁₄	5.890	0.28	2 W
161723	2006 <i>RT</i> ₂₁	45.	0.20	1 W	163555	2002 <i>TK</i> ₁₁₇			HNW
161738	2006 <i>SD</i> ₁₂₆	256.443	0.61	2 W	163567	2002 <i>TU</i> ₁₃₅	7.760	0.50	2 W
161739	2006 <i>SL</i> ₁₂₆	18.234	0.34	2 W	163594	2002 <i>TH</i> ₂₀₇	117.736	0.94	2 W
161772	2006 <i>TG</i> ₈₉	7.194	0.57	2 W	163634	2002 <i>UW</i> ₂₅	10.426	0.54	2 W
161804	2006 <i>VO</i> ₈₇			HNW	163676	2002 <i>XG</i> ₆₂	4.82	0.61	2- W
161912	2007 <i>DY</i> ₉₇	4.87	0.86	2 W	163693*	Atira	3.3980	0.22-0.36	3 B
161985	1253 <i>T-2</i>	6.36	0.36	2 W	163694	2003 <i>DP</i> ₁₃	2.387	0.13	3- W
161989	Cacus	3.7538	0.80-1.1	3 p	163696*	2003 <i>EB</i> ₅₀	62.4	0.73-1.64	2+ TO
161998	1988 <i>PA</i>	13.4	0.50	2	163732	2003 <i>KP</i> ₂	151.1	1.7	NT?
162000	1990 <i>OS</i>	2.536	0.22	1 B	163818	2003 <i>RX</i> ₇	5.649	0.11	3- W
162004	1991 <i>VE</i>	13.4802	1.08-1.11	3 T+	163890	2003 <i>SC</i> ₁₉₉		0.63	W
162011*	Konnohmaru	2.998	0.20	3-	163899	2003 <i>SD</i> ₂₂₀	285.	2.2	2+ T?
162021	1995 <i>FV</i> ₁₁			HNW	163934	2003 <i>SG</i> ₃₁₁	8.438	0.19-0.28	2 W
162038	1996 <i>DH</i>	7.16	0.18	2	163956	2003 <i>UV</i> ₄₅	3.126	0.44	2 W
162058	1997 <i>AE</i> ₁₂	1880.	>0.6	NT0	163964	2003 <i>UR</i> ₈₁	7.22	0.95	2- W
162066	1997 <i>MU</i> ₈	5.45	0.32	2 W	163974	2003 <i>UC</i> ₁₀₉	2.50	0.41	2 W
162097	1998 <i>QF</i> ₃₀	6.063	0.33	2 W	163978	2003 <i>UU</i> ₁₁₅	2.979	0.41	2 W
162117	1998 <i>SD</i> ₁₅	7.33	0.26	3-	164013	2003 <i>UT</i> ₁₉₇	5.895	0.56-0.61	2 W
162138	1998 <i>UY</i> ₁₃	2.433	0.48-0.50	2 W	164025	2003 <i>UH</i> ₂₂₆	3.58	0.46	2 W
162142	1998 <i>VR</i>	8.44	0.14	2	164079	2003 <i>WS</i> ₉₄	5.30	0.94	2 W
162173	Ryugu	7.627	0.10-0.16	2 p	164080	2003 <i>WJ</i> ₉₆	2.66	0.56	2 W
162181	1999 <i>LF</i> ₆	14.77	0.17-0.23	2	164083	2003 <i>WU</i> ₁₀₃	14.	0.33	2- W
162210	1999 <i>SM</i> ₅	6.230	0.77-0.95	N	164104	2003 <i>XF</i> ₉	2.628	0.29	2 W
162297	1999 <i>VU</i> ₁₆₇	3.68	0.54	2+ W	164121	2003 <i>YT</i> ₁	2.343	0.16-0.27	3 B
162385	2000 <i>BM</i> ₁₉	9.47	1.38	2-	164131	2003 <i>YL</i> ₄₃	17.14	0.68	1 W
162416	2000 <i>EH</i> ₂₆	>24.		RT0	164184	2004 <i>BF</i> ₆₈	5.568	0.67	3- W
162421	2000 <i>ET</i> ₇₀	8.947	0.60	3- p	164201	2004 <i>EC</i>	6.642	0.14	2 W
162457	2000 <i>HO</i> ₃₅	40.035	0.42	2 W	164228	2004 <i>RC</i> ₂₂₉	6.25	1.02	2+ W
162463	2000 <i>JH</i> ₅	3.024	0.21	2	164290	2004 <i>XY</i> ₁₀₆	11.85	0.29	1 W
162479	2000 <i>OH</i> ₃₁	2.96	0.18	1+ W	164308	2005 <i>AE</i> ₁₂	10.397	0.53	2 W
162483	2000 <i>PJ</i> ₅	2.642	0.25	3- B?	164380	2005 <i>EB</i> ₁₄₈	12.47	0.26	2 W
162525	2000 <i>QK</i> ₁₂₇	5.145	0.66	2 W	164400	2005 <i>GN</i> ₅₉	38.69	1.30	3 T-
162565	2000 <i>RU</i> ₃₁	2.552	0.18	2 W	164405	2005 <i>UK</i> ₅₀₄	16.766	0.53-0.67	2 W
162566	2000 <i>RJ</i> ₃₄	50.67	0.67-0.78	3-	164443	2006 <i>DH</i> ₃₅	7.568	0.65	2 W
162577	2000 <i>RR</i> ₉₀	6.085	0.59	2 W	164482	2006 <i>FG</i> ₂₄	4.32	0.40	2 W
162635	2000 <i>SS</i> ₁₆₄	6.8939	0.86	N	164625	1993 <i>TC</i> ₁₅	6.32	0.37	2 W
162641	2000 <i>SB</i> ₁₇₉	7.323	0.49	2 W	164716	1998 <i>GH</i>	2.645	0.06	1 W
162713	2000 <i>UY</i> ₉₅	4.098	0.40	2 W	164865	1999 <i>TA</i> ₂₇₃	15.157	0.14	2 W
162772	2000 <i>WX</i> ₁₇₅	108.495	0.75	2 W	164874	1999 <i>UL</i> ₃₇	6.11	0.42	2 W
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>WD</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	165543*	2001 <i>DK</i> ₂₉	4.68	0.36	2 W
162917	2001 <i>OW</i> ₁	8.147	0.68	2 W	165552	2001 <i>DS</i> ₄₂	5.435	0.50-0.53	2 W
162920	2001 <i>OF</i> ₉	17.555	0.31-0.33	2 W	165607	2001 <i>FS</i> ₆₆	4.417	0.43	2 W
162921	2001 <i>OL</i> ₁₁	140.062	0.34	2 W	165695	2001 <i>PT</i> ₃₂	3.254	0.23	2 W
162936	2001 <i>OD</i> ₁₀₂	4.110	0.36	2 W	165742	2001 <i>QO</i> ₁₆₂	4.44	0.65-0.70	3- W
162943	2001 <i>QZ</i> ₁₈	4.78	1.01	2 W	165755	2001 <i>QK</i> ₂₀₇	5.36	0.38	2 W
162977	2001 <i>QY</i> ₂₉₄	15.677	0.25	2 W	165783	2001 <i>RQ</i> ₁	4.982	0.70-0.78	2 W
162980	2001 <i>RR</i> ₁₇	12.71	0.23	2	165785	2001 <i>SP</i> ₅	4.71	0.42-0.47	2 W
162998	2001 <i>SK</i> ₁₆₂	68.	0.40	NT0	165815	2001 <i>RF</i> ₁₀₀	4.338	0.23	2 W
163000	2001 <i>SW</i> ₁₆₉	69.97	0.45-0.45	3-	165890	2001 <i>SW</i> ₁₉₈			HNW
163033	2001 <i>XX</i> ₁₄₂	4.575	0.59	2 W	165997	2002 <i>AP</i> ₃₁	3.428	0.10	1 W
163035	2001 <i>XK</i> ₁₇₆	5.08	0.69	1 W	166045	2002 <i>CJ</i> ₁₇	14.875	0.53	2 W
163048	2001 <i>XJ</i> ₂₄₀	11.379	0.10	1 W	166243	2002 <i>GL</i> ₁₃	>6.	>0.05	
163081	2002 <i>AG</i> ₂₉	19.70	0.25	3- TO	166258	2002 <i>GY</i> ₆₀	4.134	0.59	2 W
163102	2002 <i>AQ</i> ₁₂₅	6.08	0.54	2 W	166500	2002 <i>QD</i> ₁₇	5.85	0.72	2+ W
163191	2002 <i>EQ</i> ₉	3.	0.2	1	166572	2002 <i>RU</i> ₁₂₀	7.62	0.26	2 W
163230	2002 <i>EG</i> ₁₂₅	13.456	0.70	2 W	166632	2002 <i>SP</i> ₃₀	3.502	0.37	2 W
163243	2002 <i>FB</i> ₃	6.231	0.19	2	166646	2002 <i>TJ</i> ₄	12.950	0.44	2 W
163249	2002 <i>GT</i>	3.7663	0.31-0.36	3	166653	2002 <i>TT</i> ₂₀	7.27	0.61	2 W
163252	2002 <i>GD</i> ₁₁	7.	0.15	1	166672	2002 <i>TM</i> ₇₇	4.78	0.77	1+ W
163348	2002 <i>NN</i> ₄	14.50	0.74	3-	166676	2002 <i>TO</i> ₉₂	3.14	0.49	1 W
163362	2002 <i>OZ</i> ₁₄	14.251	0.46	2 W	166682	2002 <i>TM</i> ₁₁₂			HNW
163364	2002 <i>OD</i> ₂₀	2.420	0.11	2+	166782	2002 <i>VH</i> ₃₃	4.34	0.75	2 W
163419	2002 <i>RK</i> ₅₂	15.964	0.49	2 W	166802	2002 <i>VG</i> ₅₈	7.383	0.58	2 W
163431	2002 <i>RR</i> ₆₇	70.583	0.27-0.28	2 W	166808	2002 <i>VS</i> ₇₅	3.543	0.74-0.81	2 W

MINOR PLANET LIGHTCURVE PARAMETERS

Planet				Planet			
Planet	Period	Variation	Note	Planet	Period	Variation	Note
166872	2002 <i>XP</i> ₅₀	8.746	2 W	172036	2001 <i>WO</i> ₂₈	26.288	2 W
166940	2003 <i>HU</i> ₄₄	7.227	1 W	172104	2002 <i>GA</i> ₁₂	9.80	1 DAW
166949	2003 <i>JU</i> ₁₀	8.980	2 W	172143	2002 <i>JW</i> ₈₀	6.350	1 W
167138	2003 <i>SP</i> ₁₉₅	4.206	2 W	172148	2002 <i>LU</i> ₅	4.29	2- W
167208	Lelekovice	5.6	2 N	172158	2002 <i>NS</i> ₂₈	4.97	1+ W
167257	2003 <i>UG</i> ₁₁₈	4.356	2 W	172170	2002 <i>OE</i> ₄	3.657	2 W
167278	2003 <i>UZ</i> ₁₆₁	13.084	2 W	172279	2002 <i>TO</i> ₁₂₁	7.83	2- W
167565	2004 <i>BQ</i> ₄₃		HNW	172402	2003 <i>BJ</i> ₅₁	8.748	2 W
167570	2004 <i>BG</i> ₅₂	9.90	2 W	172410	2003 <i>CB</i> ₂	6.351	2 W
167573	2004 <i>BR</i> ₆₁		HNW	172464	2003 <i>SQ</i> ₁₀	5.05	2+ W
167628	2004 <i>CS</i> ₇₆	4.470	2 W	172471	2003 <i>SW</i> ₄₆	4.49	2 W
167631	2004 <i>CE</i> ₈₇	10.348	2 W	172473	2003 <i>SB</i> ₅₅	5.360	2 W
167643	2004 <i>DP</i> ₁₄	2.343	1 W	172537	2003 <i>UH</i> ₂₇	386.901	2 W
167647	2004 <i>DW</i> ₃₇	11.875	2 W	172601	2003 <i>WG</i> ₄₃	39.971	2 W
167870	2005 <i>EP</i> ₂₇	18.11	2 W	172613	2003 <i>WE</i> ₁₀₁	7.93	2 W
168019	2005 <i>JX</i> ₈		HNW	172652	2003 <i>YE</i> ₇₇	3.9	N
168041	2005 <i>MH</i> ₁₈	7.33	1+ W	172699	2004 <i>BR</i> ₂₃	8.44	2 W
168089	2006 <i>DM</i> ₈₄	1.39	1 W	172797	2004 <i>FN</i> ₁₀₃	8.73	2 W
168315*	1982 <i>RA</i> ₁	>1.9	2- W	172858	2005 <i>EC</i> ₆₉	4.03	2 W
168318	1989 <i>DA</i>	3.925	3 W	172924	2005 <i>GE</i> ₁₄₄	7.643	2 W
168378	1997 <i>ET</i> ₃₀	5.721	3 W	172954	2005 <i>KC</i> ₆		HNW
168381	1997 <i>LY</i> ₄	46.07	3 T	173082	2006 <i>UT</i> ₂₆₅	10.21	2 W
168385	1997 <i>RH</i> ₄	3.961	2 W	173140	1995 <i>SH</i> ₁₉	84.	1 W
168714	2000 <i>JQ</i> ₁₀	2.5	1+ W	173147	1995 <i>UC</i> ₃₈	6.847	1 W
168780	2000 <i>RN</i> ₅₂	2.84	2- W	173247	1999 <i>RQ</i> ₄₆	3.150	1 W
168847	2000 <i>UU</i> ₃₄	2.9	2 W	173255	1999 <i>RP</i> ₁₀₆	5.401	2 W
168871	2000 <i>WB</i> ₉	3.692	2 W	173273	1999 <i>SZ</i> ₄	6.523	1 W
168904	2000 <i>WY</i> ₁₈₉	3.335	2 W	173293	1999 <i>TZ</i> ₂₂₀		HNW
168906	2000 <i>XE</i> ₁₂	2.881	2 W	173464	2000 <i>QX</i> ₁₅₄	9.095	2 W
168945	2000 <i>YN</i> ₁₃₁	6.596	2 W	173490	2000 <i>SP</i> ₁₇₆	6.332	0.40-0.46 0.09
168981	2001 <i>CT</i> ₃	4.835	1 W	173515	2000 <i>UY</i> ₇₉	17.784	2 W
169012	2001 <i>DD</i> ₄₅	11.583	2 W	173528	2000 <i>WV</i> ₁		HNW
169066	2001 <i>FR</i> ₁₅₇	97.669	2 W	173571	2001 <i>BU</i> ₂₉	2.39	1 W
169114	2001 <i>OK</i> ₄₇	6.86	2 W	173614	2001 <i>FN</i> ₂₄	4.698	2 W
169134	2001 <i>QB</i> ₃₆	10.21	2 W	173623	2001 <i>FY</i> ₅₁	17.4	N
169189	2001 <i>RZ</i> ₂₈	4.186	2 W	173748	2001 <i>RW</i> ₃₀	5.2962	3 W
169228	2001 <i>SD</i> ₁₄	7.38	2 W	173871	2001 <i>TW</i> ₂₃₅	5.250	0.68-0.94 2 W
169233	2001 <i>SF</i> ₃₂	5.185	2 W	173878	2001 <i>UN</i> ₃₈	2.974	0.20 1+ W
169255	2001 <i>SP</i> ₁₂₉	8.161	2 W	173885	2001 <i>UA</i> ₆₁	5.034	0.13 1 W
169423	2001 <i>YV</i> ₁₁	4.78	1+ W	173974	2001 <i>XV</i> ₁₂₇	18.52	0.20 1+ W
169534	2002 <i>ED</i> ₆₉	12.80	2- W	173991	2001 <i>XR</i> ₁₇₀	9.132	0.14-0.49 2 W
169703*	2002 <i>LR</i> ₃₄	5.35	2 W	174054	2002 <i>CC</i> ₅₇	6.62	0.71 2+ W
169782	2002 <i>PT</i> ₁₂₃	2.973	1 W	174136	2002 <i>NR</i> ₁₅	2.316	0.10 1 W
169850	2002 <i>RC</i> ₃₀	3.423	2 W	174473	2003 <i>AX</i> ₁₆	3.16	0.34 2 W
169855	2002 <i>RU</i> ₄₁	100.351	2 W	174497	2003 <i>BG</i> ₂₂	16.847	0.36 2 W
169920	2002 <i>SQ</i> ₁₄	5.445	2 W	174511	2003 <i>BH</i> ₇₇	5.03	0.59 2 W
169950	2002 <i>TL</i> ₆₆	9.602	2 W	174542	2003 <i>FE</i>	5.119	0.37 2 W
169964	2002 <i>TD</i> ₁₃₀	3.79	2 W	174567	Varda	5.91	0.04 2- B
170105	2002 <i>XA</i> ₈₅		HNW	174586	2003 <i>QQ</i> ₃₉	3.49	0.25 2- W
170133	2003 <i>AB</i> ₃₆	4.127	2 W	174606	2003 <i>RP</i> ₂₁	5.666	0.80 2 W
170186	2003 <i>NS</i> ₆	3.20	2 W	174621*	2003 <i>SX</i> ₆₆	34.	0.6 1+ W
170364	2003 <i>SV</i> ₂₁₀	2.58	1 W	174633	2003 <i>SM</i> ₁₁₀	3.579	0.19 3 W
170502*	2003 <i>WM</i> ₇	7.2	1 D	174643	2003 <i>SF</i> ₁₄₅	12.31	1.3 1 W
170547	2003 <i>WL</i> ₁₂₇	17.020	2 W	174655	2003 <i>SZ</i> ₁₉₄	4.638	0.39 2 W
170689	2004 <i>BN</i> ₂		HNW	174656	2003 <i>SD</i> ₁₉₅	5.370	0.57 2 W
170711	2004 <i>BD</i> ₄₀	3.17	2 W	174671	2003 <i>SW</i> ₂₅₁	4.434	0.39 2 W
170727*	2004 <i>BU</i> ₇₃	9.94	1 DAW	174680	2003 <i>SC</i> ₃₀₄	4.350	0.69-0.79 2 W
170845	2004 <i>FK</i> ₆₅	4.25	2 W	174692	2003 <i>UY</i> ₂₅		HNW
170891	2004 <i>TY</i> ₁₆	2.795	3 W	174751	2003 <i>UQ</i> ₂₇₆	2.878	0.23 2 W
170914	2004 <i>XN</i> ₁₂₂	126.833	2 W	174790	2003 <i>WZ</i> ₁₂₃	5.49	0.52 2 W
170965	2005 <i>CW</i> ₁₁		HNW	174830	2003 <i>YY</i> ₇₉	42.158	0.49 2 W
171069	2005 <i>ES</i> ₁₅₂	4.32	2 W	174837	2003 <i>YP</i> ₁₁₂	42.970	0.87 2 W
171207	2005 <i>JQ</i> ₆₃	4.29	2- W	174946	2004 <i>CF</i> ₈₅	9.32	0.56 2 W
171257	2005 <i>QP</i> ₇₇	2.26	2 W	175047	2004 <i>FK</i> ₉₃	3.256	0.22 1 W
171293	2006 <i>GV</i> ₃₈	5.260	2 W	175110	2004 <i>NF</i> ₉	7.80	0.83 2 W
171390	2006 <i>PK</i> ₁₃	6.94	1 DAW	175114*	2004 <i>QQ</i>	8.879	0.11-0.12 2+ A
171398	2006 <i>QH</i> ₄₂	2.88	1+ W	175245	2005 <i>JZ</i> ₁₅	4.452	0.15 1 W
171400	2006 <i>QZ</i> ₉₈	4.852	2 W	175313	2005 <i>MF</i> ₁₅	4.92	0.77 2 W
171576*	1999 <i>VP</i> ₁₁	2.796	3- W	175347	2005 <i>NV</i> ₁₂₂	7.250	0.37-0.39 2 W
171605*	1999 <i>XB</i> ₂₄₆	7.5	2 W	175412	2006 <i>PA</i> ₉	7.96	0.50 1 DAW
171677	2000 <i>QG</i> ₁₃₆	7.528	2- W	175487	2006 <i>RW</i> ₃₅	11.13	0.16 1+ W
171819	2001 <i>FZ</i> ₆	15.24	2+ W	175506	2006 <i>SO</i> ₂	2.799	0.12 1 W
171825	2001 <i>FQ</i> ₆₃	64.444	2 W	175656	3397 <i>T-3</i>	4.23	0.55 2+ W
171839	2001 <i>JM</i> ₁	5.7516	N	175706	1996 <i>FG</i> ₃	3.5942	0.04-0.2 3 B
171879	2001 <i>QQ</i> ₂₆₃	15.127	2 W	175799	1999 <i>RT</i> ₁₄₇	6.004	0.26 2 W
171888	2001 <i>RJ</i> ₂₀	3.09	2 W	175809	1999 <i>RU</i> ₁₈₂	202.127	0.82 2 W
171914	2001 <i>SM</i> ₇₅		W	175821	1999 <i>TB</i> ₃₁	5.39	0.73 2 W
171942	2001 <i>SA</i> ₂₅₆		HNW	175847	1999 <i>TF</i> ₂₉₃	7.678	0.50 2 W
171992	2001 <i>TK</i> ₂₁₄		HNW	175856	1999 <i>UQ</i> ₅₆	4.960	0.27 2 W
172022	2001 <i>UZ</i> ₂₀₉	10.765	2 W	176010	2000 <i>RV</i> ₈₇		HNW

MINOR PLANET LIGHTCURVE PARAMETERS

Planet	Period	Variation	Note	Planet	Period	Variation	Note				
176043	2000 SW ₂₉₄	4.821	0.43	2	W	180572	2004 ER ₁₀₂	5.27	0.91	2	W
176111	2001 DY ₉	6.290	0.80	2	W	180628	2004 FE ₁₃₇	25.918	0.62	2	W
176139	2001 FA ₆₂	5.13	0.81	2	W	180733	2004 JH ₄₂	9.418	0.64	2	W
176353	2001 TK ₈₄	11.57	0.30	1	W	180919	2005 LU ₁₄	57.756	0.64	2	W
176422	2001 VU ₂₆	6.939	0.69	2	W	180962	2005 MW ₃₅	147.427	0.43	2	W
176505	2001 YF ₂₉	5.34	0.56	2-		181044	2005 PE ₁	27.940	0.37	2	W
176537	2002 AA ₁₇	6.60	0.30	2-	W	181050	2005 PB ₅	12.827	0.61	2	W
176628	2002 JP ₁₁₅				HNW	181179	2005 SV ₇₇				HNW
176829	2002 TH ₁₆₆	14.596	0.77	2	W	181289	2006 OF ₁₇	6.887	0.63	2	W
176865	2002 TB ₂₉₆	69.465	0.59	2	W	181290	2006 OU ₂₀	2.24	0.2	1	W
176929	2002 VW ₁₂₁	4.370	0.10	1	W	181292	2006 PR ₁₀	8.373	0.47	2	W
176932	2002 VC ₁₃₉	5.3			N	181293	2006 PB ₁₂	6.160	0.60	2	W
176988	2002 YR ₂₉	7.732	0.69-0.91	2	W	181333	2006 QX ₁₁₃	10.879	0.82	2	W
177002	2003 AG ₅₉	3.14	0.30	2	W	181355	2006 RY ₄₂	6.054	0.22	1	W
177054	2003 EY ₃₅	2.72	0.45	2	W	181464	2006 TL ₅₄	4.628	0.10	1	W
177075*	2003 FR ₃₆	6.818	0.37	2+		181570	2006 PE ₂₁	10.43	0.64	2	W
177109	2003 GZ ₂	11.85	0.47	2	W	181600	2006 WN ₃₄	4.230	0.53	2	W
177200*	2003 UL ₈₆	4.51	0.33	2+		181826	1998 SP ₄₉	2.984	0.06	1	W
177288	2003 XF	7.33	0.65	2	W	181855	1998 WT ₃₁		>0.05		N
177302	2003 YB ₇	7.735	0.88	2	W	181856	1998 XV ₃	43.703	0.27	2	W
177304	2003 YZ ₁₂	14.76	0.61	1	DAW	181880	1999 PE ₇	4.47	0.61	2-	W
177322	2003 YX ₄₃	2.584	0.07	1	W	181882	1999 RF ₁₄	2.5	0.20	1	T?
177325	2003 YJ ₄₉	14.018	0.41	2	W	181895	1999 RM ₁₅₅	2.711	0.08	1	W
177510	2004 EP ₆₄	6.255	0.73	2	W	181946	1999 TM ₂₀₃	14.250	0.68	2	W
177607	2004 HD ₁	3.754	0.38	2	W	181966	1999 UA ₄₂	2.24	0.43	2	W
177682	2005 ED ₂₃₂				HNW	182178	2000 SR ₂₈₂		1.25		I
177685	2005 EE ₂₆₄	30.956	0.41	2	W	182196*	2000 UT ₄₅	6.7	0.10	2-	W
177724	2005 GZ ₂₂₃	7.840	0.53	2	W	182213	2000 WU ₁₂₂	2.70	0.29	3-	W
177726	2005 HX ₄	4.97	0.44	2	W	182220	2000 XP ₂₉	35.691	0.32	2	W
177798	2005 LR ₄₅	4.205	0.48	2	W	182297	2001 MH ₁₄	43.767	0.85	2	W
177874	2005 QM ₇₄				HNW	182303	2001 NR ₂₂				HNW
177961	2006 PQ ₈	9.545	0.26-0.65	2	W	182329	2001 PR ₁₅	51.543	0.88	2	W
178014	2006 RG	16.27	0.48	2	W	182380	2001 QR ₂₃₀	8.196	0.86	2	W
178044	2006 RT ₉₂	30.	0.24	1	W	182420	2001 RQ ₉₉	4.148	0.17	2	W
178170	2006 US ₅₃	3.04	0.21	1+	W	182445	2001 SD ₃₀		1.66		I
178296	1992 SM ₆				HNW	182464	2001 SH ₈₈	4.580	0.73	2	W
178303	1993 TB ₂₇	8.640	0.68	2	W	182538	2001 TO ₃₉	4.811	0.54	2	W
178414	1998 RH ₃₄				HNW	182644	2001 UH ₁₆₂	6.284	0.61	2	W
178461	1999 RY ₇₅				HNW	182703	2001 VD ₁₂₄	4.915	0.74	2	W
178533	1999 TB ₃₁₉	5.207	0.52	2	W	182711	2001 WZ ₁₆	4.840	0.89	2	W
178581	1999 XC ₆₆	6.922	0.60	2	W	182756	2001 XZ ₁₄₈	2.774	0.08	1	W
178655	2000 PO ₂₉	3.75	0.29	2	W	182933	2002 GZ ₃₁				HNW
178734	2000 TB ₂	4.6	0.33	2-		182953	2002 HN ₁₇	11.858	0.50	2	W
178854	2001 KR ₁₆	5.68	0.52	2	W	182967	2002 LK ₂₂	34.175	0.08	1	W
178896	2001 OG ₅₈	4.633	0.86	2	W	183019	2002 PG ₉₆				HNW
179138	2001 SU ₃₁₆	3.72	0.96	2	W	183050	2002 QV ₇₀	39.635	0.78	2	W
179151	2001 TD ₂₁	17.673	0.18	2	W	183102	2002 RM ₁₁₀				HNW
179333	2001 XX ₈	19.004	0.75	2	W	183122	2002 RX ₁₇₄	3.990	0.40	2	W
179343	2001 XW ₉₀	7.779	0.76	2	W	183130	2002 RR ₂₀₁	3.60	0.37	2	W
179350	2001 XG ₁₂₃	18.408	1.14	2	W	183219	2002 TN ₃₇	3.481	0.10	1+	W
179413	2001 YM ₁₆₁	16.817	1.24	2	W	183222	2002 TN ₄₁	2.482	0.08	1	W
179458	2002 AQ ₁₇₇	29.897	0.51	2	W	183263	2002 TG ₂₁₅	49.831	0.56	2	W
179572	2002 FY ₁₁	13.41	1.19	2	W	183282	2002 TM ₂₈₃	3.654	0.23	2	W
179596	2002 NS ₁₇				HNW	183298	2002 UB ₁₄	2.7985	0.20	1	W
179604	2002 NO ₄₇	31.426	0.54	2	W	183300	2002 UH ₁₉	294.817	0.64	2	W
179738	2002 RB ₁₁₈	7.401	0.36	2	W	183303	2002 UU ₃₃	6.006	0.48	2	W
179800	2002 TN ₃₈				HNW	183371	2002 XP ₂₀	3.381	0.47-0.48	2	W
179806	2002 TD ₆₆	9.455	1.16	3-	TO	183376	2002 XM ₃₀	6.689	0.53	2	W
179851	2002 TP ₂₅₃				HNW	183392	2002 XU ₇₂	2.32	0.18	1	W
179883	2002 UE ₁₆	34.	0.6	1+	W	183460	2003 BT ₅₂	187.139	0.48	2	W
179924	2002 VM ₅₉	2.196	0.13	1	W	183532*	2003 GC ₂₇	5.08	0.84-0.85	3-	
179938	2002 VK ₈₈	15.603	0.10	1	W	183581	2003 SY ₈₄	260.	0.87	2	T?
179943	2002 VA ₁₀₆	2.246	0.10	1	W	183597	2003 UT ₁₄	9.578	0.57-0.95	2	W
179973	2002 XZ ₃₆	4.87	0.71	3-	W	183609	2003 UV ₁₆₀	5.39	0.70	2	W
180002	2002 YD ₄	5.506	0.39	2	W	183705	2003 YR ₅₀				HNW
180016	2003 AW ₁	14.474	0.55	2	W	183708	2003 YF ₅₂	6.519	0.77	2	W
180022	2003 AD ₁₆	4.182	0.42	2	W	183712	2003 YY ₆₁	39.546	0.56	2	W
180095	2003 EA ₄₆	3.942	0.44	2	W	183785	2004 BG ₂₉	5.42	0.59	2	W
180201	2003 ST ₂₅₁	6.631	0.75	2	W	183870	2004 CQ ₃₆	10.917	0.73	2	W
180203	2003 SU ₂₅₉	5.25	0.26	2	W	183944	2004 DS ₃₄	6.396	0.66-0.67	2	W
180257	2003 WM ₃	52.981	0.87	2	W	184132	2004 JN ₁₄	4.16	0.33	2-	W
180266	2003 WQ ₃₄	5.638	0.64	2	W	184135	2004 JA ₁₇	32.053	0.22	2	W
180295	2003 WQ ₁₂₀	6.158	0.08	1	W	184175	2004 NT ₂₈	9.857	0.71	2	W
180318	2003 XE ₁₂	53.668	0.64	2	W	184222	2004 RA ₆₈	6.808	0.47	2	W
180355	2003 YK ₇₈	4.337	0.57	2	W	184237	2004 RM ₂₀₆	7.532	0.70	2	W
180380	2003 YO ₁₃₉	9.990	0.43	2	W	184266	2004 YW ₁₄	2.5009	0.14		N
180408	2004 BV ₃₆	3.04	0.32	1+	W	184292	2005 EK	4.34	0.45	2	W
180448	2004 BQ ₁₂₄				HNW	184349	2005 JV				HNW
180511	2004 DC ₁₀	13.288	0.25	2	W	184384	2005 LA ₁₈	6.063	0.41-0.56	2	W
180514	2004 DB ₂₁	4.095	0.24	2	W	184483	2005 OX ₁₄	6.998	0.63	2	W

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Planet				Planet			
Planet	Period	Variation	Note	Planet	Period	Variation	Note
184519	2005 QU ₁₀	16.197	2 W	188174	2002 JC	2.472	3 A
184583	2005 QY ₁₁₃	4.666	2 W	188181	2002 JH ₁₀₈	7.221	2 W
184616	2005 RE ₁₁	375.355	2 W	188189	2002 PL ₈₄	7.615	2 W
184632	2005 SO ₉	5.622	2 W	188216	2002 TS ₃₇	31.3	2 W
184696	2005 SO ₁₁₁	4.388	2 W	188228	2002 TH ₂₆₇	>10.	2 N
184736	2005 SV ₂₀₄		HNW	188291	2003 BV ₆₇		HNW
184973	2005 YN ₈	5.330	2 W	188368	2004 BS ₇₈	7.645	2 W
184990	2006 KE ₈₉	5.187	2 W	188449	2004 HV ₄₁	8.21	2 W
185077	2006 RL ₇₁	4.53	3 W	188540	2004 RZ ₃₂₀	9.472	2 W
185085	2006 RG ₉₂	220.	1 W	188599	2005 OW ₁₅	7.362	2 W
185086	2006 RP ₉₂	9.076	2 W	188626	2005 QV ₄₅	9.238	2 W
185090	2006 RQ ₉₇		HNW	188645	2005 RL ₃₃	4.97	2 W
185199	2006 TB ₂₅	7.74	2 W	188805	2005 WT ₈₈	5.820	2 W
185213	2006 TN ₅₃	5.48	1 DAW	188892	2006 XM ₁₉	64.703	2 W
185225	2006 TV ₇₄	9.06	2 W	188967	2008 CW ₁₅₃	40.506	2 W
185360	2006 VZ ₈₈	5.65	2 W	189008	1996 FR ₃	5.36	3 W
185362	2006 VG ₉₆	11.661	2 W	189023	1999 NV ₁₉	2.113	1 W
185438	2006 XW ₄₇	5.007	2 W	189039	2000 LA ₂₅	12.875	2 W
185492	2007 HA ₈	295.352	2 W	189099	2001 RO	5.7161	3 W
185506	2007 TJ ₃₁₅	10.00	2 W	189101	2001 RW ₁₁₂		HNW
185570	2008 AA ₇₈	9.14	2 W	189187	2003 EY ₂₄	19.243	2 W
185591	2008 BP ₃₅	2.788	2 W	189218	2004 DC ₃₇	41.2	2 W
185704	1998 OD ₈	7.964	2 W	189265	2005 GN ₁₇₉	4.908	3 W
185756	1999 TM ₉	5.077	2 W	189296	2005 UT ₄₀₇	15.54	2 W
185773	1999 TO ₂₃₂	4.156	2 W	189427	1997 TE ₅	8.14	2 W
185814	1999 XH ₆₂	34.656	2 W	189473	1999 TK ₂₁₉	17.599	2 W
185823	2000 AA ₂₈	8.574	2 W	189545	2000 RT ₃₆	3.259	2 W
185831	2000 AO ₂₁₉		HNW	189597	2000 WG ₁₁₉	14.060	2 W
185843	2000 CW ₁₁₃	13.52	2 W	189611	2000 YE ₄₉	50.457	2 W
185851	2000 DP ₁₀₇	2.7754	3 p	189700	2001 TA ₄₅	5.010	2 W
185854	2000 EU ₁₀₆	3.505	3 W	189740	2001 XA ₈₀	9.32	2 W
185877	2000 OB ₈	2.076	1 W	189741	2001 XG ₉₇	44.349	1 W
185943	2000 YB ₉₈	4.92	2 W	189772	2002 CQ ₇₈	5.96	2 W
185951	2001 DE ₈	2.30	2 W	189796	2002 GL ₂	27.336	2 W
185955	2001 DX ₅₅		HNW	189845	2003 EA ₁₂	53.594	2 W
186047	2001 SA ₁₈		HNW	189855	2003 GQ ₉	10.812	2 W
186052	2001 SX ₅₁		HNW	190007	2004 LM ₁₃	5.19	2 W
186080	2001 SO ₂₃₀	8.302	2 W	190091	2004 TU ₁₃₅	5.575	2 W
186109	2001 TH ₈₀	4.220	2 W	190113	2004 UX ₂	5.52	2 W
186172	2001 UR ₁₅₀	60.050	2 W	190135	2005 QE ₃₀		N
186189	2001 VM ₅₄	16.196	2 W	190166*	2005 UP ₁₅₆	40.542	3 B
186287	2002 AU ₁₈₇	4.333	2 W	190186	2005 WM ₃₁	15.170	2 W
186321	2002 CZ ₂₇₄	3.248	2 W	190208	2006 AQ	182.	3 B?
186449	2002 SA ₄₃	5.489	2 W	190254	2007 GR ₄₄	3.28	1 W
186454	2002 SU ₅₅	6.178	2 W	190255	2007 HG	4.405	2 W
186468	2002 TO ₄₂	11.118	2 W	190277	6227 P-L		HNW
186490	2002 TB ₂₂₂	5.05	2 W	190289	1994 PR ₁₅	3.765	2 W
186496	2002 TY ₂₉₉		HNW	190345*	1998 UR ₁₄	>24.	W
186529	2002 VO ₆₇	5.026	2 W	190395	1999 TR ₁₀₉	126.015	2 W
186530	2002 VX ₇₈	5.322	2 W	190412	1999 TN ₂₆₇	10.435	2 W
186538	2002 VP ₁₀₉	2.227	1 W	190413	1999 TN ₂₈₄	36.795	2 W
186546	2002 XL ₆	9.870	2 W	190425	1999 VM ₁₃₇	6.00	3 W
186649	2003 TK ₁₅		I	190428	1999 VS ₁₅₉	61.792	2 W
186652	2003 UY ₁₀₆	5.22	2 W	190453	2000 AQ ₂₃₅	6.76	1 DAW
186720	2004 BN ₁₀₆		HNW	190491	2000 FJ ₁₀	>2.	0.02-0.44
186772	2004 DQ ₂₀	5.52	2 W	190564	2000 SU ₁₂₈	15.254	2 W
186859	2004 GW ₅₆	54.724	2 W	190580	2000 SB ₂₉₅	2.73	2 W
186865	2004 HO ₂₄	177.847	2 W	190584	2000 SH ₃₁₁	5.36	2 W
187014*	2004 TA ₂₉₇	9.25	2 W	190620	2000 WC ₃₉	6.19	2 W
187060	2005 MX ₂₆	8.125	2 W	190629	2000 WT ₁₁₄	5.71	2 W
187067	2005 MX ₄₁	9.28	1 DAW	190631	2000 WT ₁₂₉		HNW
187254	2005 SL ₂₃₇	6.443	2 W	190637	2000 WE ₁₅₅	9.35	2 W
187267	2005 TA ₃₂		HNW	190650	2000 XN ₄₀	16.606	2 W
187337	2005 UW ₁₀₈	6.15	2 W	190658	2000 YA ₄₄	6.27	2 W
187427	2005 WH ₆	7.859	2 W	190663	2000 YF ₈₈	14.55	2 W
187463	2005 XX ₁₀₆	4.84	2 W	190697	2001 FQ ₁₆	4.66	1 W
187572	2006 VV ₁₄₂	10.057	2 W	190951	2001 VU ₆₂		W
187610	2006 YK ₃₇	82.044	1 W	190978	2001 XD ₁₀₁	12.30	2 W
187667	2008 BZ ₃₈	6.49	2 W	190991	2001 XQ ₂₃₈		W
187757	1996 UH ₄	28.996	2 W	191029	2002 BR	2.71	2 W
187820	1999 TP ₂₅₃	11.237	2 W	191044	2002 CQ ₃₁	2.875	2 W
187834	1999 VM ₁₂₁	9.4	2 W	191111	2002 EU ₇₁	11.43	2 W
187926	2001 BH ₃₁	2.695	2 W	191132	2002 GK ₂₃		HNW
187931	2001 DN ₁₀₇	4.95	2 W	191145	2002 GH ₁₁₉	6.152	2 W
187974	2001 QV ₁₁₈	16.578	2 W	191530	2003 UX ₁₉₇	1.78	2 W
187975	2001 QQ ₁₅₅	2.89	2 W	191589	2004 FQ ₅	5.047	3 W
187989	2001 RF ₁₀₁		HNW	191608	2004 HP ₁₀	6.210	2 W
188039	2001 UG ₁₇₄	10.121	2 W	191658	2004 PG ₉₁	3.689	2 W
188077	2001 XW ₄₇	525.	2 W	191675	2004 RP ₃₈		HNW
188162	2002 GK ₁₀₉	5.813	2 W	191755	2004 SQ ₅₄	5.242	2 W

MINOR PLANET LIGHTCURVE PARAMETERS

Planet	Period	Variation	Note	Planet	Period	Variation	Note
191773 2004 <i>TM</i> ₇₃			HNW	194912 2002 <i>AG</i> ₁₁₄	12.68	1.0	2 W
191789 2004 <i>TG</i> ₁₃₂	10.60	0.50	1+ DAW	194968 2002 <i>AQ</i> ₁₇₈	21.206	0.83-0.84	2 W
191799 2004 <i>TL</i> ₂₀₅	5.305	0.69	2 W	195079 2002 <i>CL</i> ₁₀₇		>0.1	2 W
191865 2004 <i>XO</i> ₂₈	9.42	0.70	1 DAW	195098 2002 <i>CE</i> ₁₂₅	2.62	0.26-0.34	2 W
191870 2004 <i>XT</i> ₇₆	5.52	0.98	1+ AW	195099 2002 <i>CF</i> ₁₂₆	6.799	0.53	2 W
192002 2005 <i>XB</i> ₁₁₇	4.910	0.62	2 W	195123 2002 <i>CG</i> ₁₅₇	2.98	0.46	2 W
192109 2006 <i>CK</i> ₃₉	3.736	0.34	2 W	195161 2002 <i>CA</i> ₂₂₆	6.08	0.46	2 W
192112 2006 <i>CX</i> ₅₆	5.354	0.51	2 W	195207 2002 <i>DN</i> ₂		0.50	2 W
192123 2006 <i>DJ</i> ₅₉			HNW	195222 2002 <i>DL</i> ₁₄	3.867	0.61	2 W
192131 2006 <i>DD</i> ₁₁₆	9.584	0.43-0.45	2 W	195227 2002 <i>DH</i> ₁₈	5.03	0.72	1+ W
192221 2007 <i>RQ</i> ₂₇₈		1.21	I	195241 2002 <i>EM</i> ₂₂	31.695	0.35-0.40	2 W
192223 2007 <i>VM</i> ₆	10.03	0.70	2+ W	195475 2002 <i>GQ</i> ₁₂₆	3.65	0.48	2 W
192224 2007 <i>VO</i> ₆	5.82	0.39	2 W	195602 2002 <i>KN</i> ₁	10.91	0.46	2 W
192283 1981 <i>EE</i> ₃	7.349	0.71	2 W	195670 2002 <i>OZ</i> ₉	39.226	0.32	2 W
192309 1993 <i>TK</i> ₂₆	383.288	0.80	2 W	195700 2002 <i>PY</i> ₂₆	5.066	0.41	2 W
192389 1996 <i>RT</i> ₂₉		0.94	I	195704 2002 <i>PH</i> ₃₅	10.294	0.36	2 W
192390 1996 <i>RO</i> ₃₀	5.65	0.30	2 W	195706 2002 <i>PO</i> ₃₆	7.311	0.53	2 W
192451 1997 <i>WQ</i> ₄₂	5.39	0.23	2 W	195710 2002 <i>PA</i> ₄₇	2.842	0.25	2 W
192534 1998 <i>SN</i> ₈₀	8.42	0.73	2- W	195712 2002 <i>PD</i> ₄₉	44.752	0.33	2 W
192552 1998 <i>TP</i> ₂₆	6.283	0.72	2 W	195812 2002 <i>QL</i> ₁₉	4.66	0.63-0.90	2+ W
192591 1999 <i>CE</i> ₈	4.59	0.80	2 W	195905 2002 <i>RB</i> ₅₅	16.999	0.34	2 W
192642 1999 <i>RD</i> ₃₂	17.08	0.28	2 W	195930 2002 <i>RO</i> ₁₁₃	5.501	0.33	2 W
192651 1999 <i>RS</i> ₈₀	4.73	0.58-0.60	2 W	195957 2002 <i>RJ</i> ₁₆₅	144.994	0.31	2 W
192665 1999 <i>RS</i> ₁₈₁	5.45	0.55	2 W	196022 2002 <i>SQ</i> ₅	6.466	0.56	2 W
192683 1999 <i>SO</i> ₂₇	13.17	0.14	2- A	196070 2002 <i>TA</i> ₆₅	3.896	0.26	2 W
192692 1999 <i>TH</i> ₄₁	5.39	0.40	2 W	196073 2002 <i>TQ</i> ₇₄	6.679	0.37	2 W
192724 1999 <i>TF</i> ₁₅₇	7.437	0.56	2 W	196076 2002 <i>TL</i> ₇₇	7.202	0.47	2 W
192765 1999 <i>TV</i> ₃₁₃	3.351	0.32	2 W	196118 2002 <i>TY</i> ₁₇₃	8.393	0.56	2 W
192767 1999 <i>TV</i> ₃₁₉	7.768	0.76-0.80	2 W	196127 2002 <i>TP</i> ₂₀₆	7.919	0.44	2 W
192769 1999 <i>TF</i> ₃₂₁	20.370	0.76	2 W	196143 2002 <i>TZ</i> ₂₇₀	6.132	0.71	2 W
192775 1999 <i>UE</i> ₁₆	3.987	0.50-0.53	2 W	196155 2002 <i>UJ</i> ₅₁	9.276	0.71	2 W
192802 1999 <i>VO</i> ₁₆	6.193	0.96	2 W	196214 2003 <i>BD</i> ₃₇	6.8	0.56-0.75	2 W
192861 1999 <i>VO</i> ₂₂₀	14.725	0.32	2 W	196325 2003 <i>FL</i> ₄₇	9.579	0.56-0.62	2 W
192869 1999 <i>XB</i> ₁₄	3.90	0.35-0.40	2 W	196444 2003 <i>HQ</i> ₃₇	4.498	0.51-0.62	2 W
192929 2000 <i>AT</i> ₄₄	7.027	0.68	2 W	196467 2003 <i>JX</i> ₈	5.506	0.55	2 W
192940 2000 <i>AG</i> ₂₀₆	6.064	0.46-0.69	2 W	196539 2003 <i>OA</i> ₃₀	7.834	0.51	2 W
192964 2000 <i>CF</i> ₁₂₇	6.230	0.12	2 W	196546 2003 <i>PT</i> ₁₁	6.739	0.31	2 W
193003 2000 <i>EO</i> ₂	5.45	0.46	2 W	196582 2003 <i>QS</i> ₄₆			HNW
193008 2000 <i>EH</i> ₁₆	5.85	0.66-0.93	3- W	196616 2003 <i>QE</i> ₁₀₈	5.162	0.78	2 W
193061 2000 <i>GP</i>	4.68	0.37	1+ W	196667 2003 <i>SN</i> ₅₀	4.82	0.28	2 W
193199 2000 <i>QL</i> ₁₃₉	5.78	0.41	2 W	196698 2003 <i>SV</i> ₇₇	3.9	0.27	N
193212 2000 <i>QE</i> ₂₂₄		0.54	W	196707 2003 <i>SB</i> ₈₉			HNW
193291 2000 <i>SU</i> ₂₃₆		1.2	I	196745 2003 <i>SY</i> ₁₃₉	3.50	0.56	2 W
193308 2000 <i>SG</i> ₃₀₀	7.11	0.73	2 W	196806 2003 <i>SQ</i> ₂₁₈	3.260	0.30	2 W
193313 2000 <i>SR</i> ₃₀₈	157.002	0.52	2 W	196848 2003 <i>SQ</i> ₂₅₉		>0.1	W
193369 2000 <i>UH</i> ₇₃	4.694	0.26	2 W	196905 2003 <i>TH</i> ₁₇	2.87	0.78	2 W
193379 2000 <i>VP</i> ₁₉	3.24	0.15	2 W	196974 2003 <i>UC</i> ₆₄	2.745	0.31	2 W
193385 2000 <i>VC</i> ₃₀	5.47	0.40	1 W	196987 2003 <i>UO</i> ₈₁	>12.	>0.05	1 W
193397 2000 <i>WQ</i> ₉	6.405	0.78	2 W	197087 2003 <i>UG</i> ₁₈₂	6.15	0.72	3- W
193449 2000 <i>WW</i> ₁₄₆	38.44	0.20	3 W	197136 2003 <i>UZ</i> ₂₄₀	4.05	0.51	2 W
193467 2000 <i>XK</i> ₁₇	6.49	0.44-0.50	2 W	197155 2003 <i>UJ</i> ₂₇₂	6.40	0.62	1 DAW
193470 2000 <i>XU</i> ₁₉	2.715	0.23-0.28	2 W	197166 2003 <i>UG</i> ₂₇₇	7.93	0.54	2 W
193476 2000 <i>XR</i> ₃₁	14.006	0.42	2 W	197299 2003 <i>WH</i> ₁₂₈	101.769	0.60	2 W
193477 2000 <i>XO</i> ₃₆	5.412	0.51-0.54	2 W	197309 2003 <i>WS</i> ₁₄₀	200.733	0.41	2 W
193478 2000 <i>XN</i> ₃₇	5.073	0.79	2 W	197361 2003 <i>XN</i> ₁₈	4.424	0.58	2 W
193505 2000 <i>YP</i> ₃₆	2.95	0.09	2 W	197362 2003 <i>XR</i> ₁₉	12.31	0.73	1+ W
193514 2000 <i>YA</i> ₅₅			HNW	197388 2003 <i>YN</i> ₁₁	14.9	0.65	2- W
193529 2000 <i>YV</i> ₈₆	4.00	0.19	2 W	197396 2003 <i>YK</i> ₂₇	4.95	0.32	2 W
193577 2001 <i>BY</i> ₁	5.96	0.51	2 W	197402 2003 <i>YU</i> ₃₄	3.90	0.45-0.78	2 W
193602 2001 <i>BL</i> ₇₀	9.555	0.32	2 W	197411 2003 <i>YU</i> ₄₉	7.27	0.73	2 W
193622 2001 <i>CR</i> ₂₅	12.80	0.27	2 W	197504 2004 <i>BS</i> ₁₁₇	6.375	0.37	2 W
193626 2001 <i>CV</i> ₃₁	5.392	0.28	2 W	197505 2004 <i>BG</i> ₁₂₀	10.664	0.69	2 W
193644 2001 <i>DL</i> ₂₂	5.415	0.38	2 W	197518 2004 <i>CJ</i> ₁₀₆	6.15	0.48	2 W
193648 2001 <i>DT</i> ₃₀	4.994	0.48	2 W	197519 2004 <i>DF</i> ₁	4.871	0.75	2 W
193656 2001 <i>DK</i> ₄₅		0.63	W	197558 2004 <i>FL</i> ₁₂₂		1.0	I
193659 2001 <i>DX</i> ₅₃	3.23	0.18	2 W	197570 2004 <i>GZ</i> ₂₉			HNW
193667 2001 <i>DU</i> ₆₄	3.725	0.48	2 W	197712 2004 <i>PS</i> ₃		0.86	W
193668 2001 <i>DJ</i> ₆₆	4.584	0.30-0.44	2 W	197715 2004 <i>PS</i> ₇	5.13	0.85	2 W
193682 2001 <i>EH</i> ₁₄	7.760	0.41	2 W	197868 2004 <i>RQ</i> ₆	4.68	0.95	2 W
193711 2001 <i>FC</i> ₈₃	6.836	0.79	2 W	198087 2004 <i>ST</i> ₂₄	9.540	0.72	2 W
193731 2001 <i>FY</i> ₁₆₂	14.232	0.72	2 W	198112 2004 <i>TM</i> ₁	15.314	0.62	2 W
194109* 2001 <i>SX</i> ₂₃₁	3.376	0.13	2+ W	198128 2004 <i>TS</i> ₂₅	5.215	0.73	2 W
194164 2001 <i>TE</i> ₂₃	27.712	0.52	2 W	198184 2004 <i>TU</i> ₁₀₉	4.27	0.15	2 W
194266 2001 <i>UV</i> ₁	35.223	0.67	2 W	198360 2004 <i>VX</i> ₁₂	28.653	0.23	2 W
194268 2001 <i>UY</i> ₄	7.88	0.13	2 A	198409 2004 <i>VF</i> ₆₂	15.972	0.39	2 W
194386 2001 <i>VG</i> ₅	6.38	0.38-0.7	3 W	198468 2004 <i>XE</i> ₂₄	6.81	0.70	2 W
194400 2001 <i>VO</i> ₂₄	42.296	0.86	2 W	198479 2004 <i>XD</i> ₃₉	15.818	0.43	2 W
194458 2001 <i>VX</i> ₁₂₄	6.52	1.35	2 W	198480 2004 <i>XW</i> ₄₀	4.766	0.06	1 W
194473 2001 <i>WQ</i> ₂₁	6.5	0.10	2- W	198536 2004 <i>XW</i> ₁₁₀	66.055	0.65	2 W
194547 2001 <i>XT</i> ₆₇	4.92	0.76	2 W	198539 2004 <i>XJ</i> ₁₂₁			HNW

MINOR PLANET LIGHTCURVE PARAMETERS

Planet	Period	Variation	Note	Planet	Period	Variation	Note				
198570	2004 XW ₁₇₁	2.54	0.48	1+	W	202321	2005 EG ₅₅	3.458	0.59	2	W
198580	2004 YV ₁₁				HNW	202327	2005 ER ₇₅	6.32	0.76	2	W
198582	2004 YT ₁₃	233.131	0.95	2	W	202397	2005 JS ₁₈	12.31	>0.6	1	W
198588	2004 YP ₃₂	70.207	0.39	2	W	202421	2005 UQ ₅₁₃	7.03	0.06	2-	A
198592	Antbernal	>12.	>0.1	2-	W	202521	2006 BP ₂₇₄	3.31	0.78	2	W
198605	2005 AM ₁₉	160.768	0.38	2	W	202537	2006 DO ₆₀	3.86	1.11	2	W
198611	2005 AJ ₂₄	5.097	0.30	2	W	202573	2006 FY ₁₃	6.00	0.96	2	W
198614	2005 AO ₂₆	9.136	0.59	2	W	202640	2006 JW ₁₃	2.49	0.31	2	W
198675	2005 CY ₂	12.97	0.40	2	W	202745	2007 ND	6.902	0.38	2	W
198695	2005 CX ₂₂				HNW	202770	2007 RW ₂₃₈	11.148	0.56	2	W
199003	2005 WJ ₅₆	4.379	0.09-0.15	3		202858	2008 TW ₁₁₇	5.926	0.78-0.80	2	W
199091	2005 YF ₁₀	6.76	0.49	2	W	202908	1996 TH ₁₁	5.308	0.80	3	
199142*	2005 YB ₁₂₆	8.94	0.45	2	W	202909	Jakoten	7.946	0.28	2	W
199248	2006 AM ₁₀₀	5.332	0.42	2	W	202981	1999 TR ₂₃₈	60.203	0.41	2	W
199283	2006 BW ₄₆	6.40	0.44	2	W	203047	2000 EC ₅₂	2.70	0.54	2	W
199327	2006 BR ₁₂₈				HNW	203095	2000 RO ₃₇	19.61	0.31	2	A
199481	2006 DO ₇₄	7.469	0.51	2	W	203173	2000 YL ₉₈	2.09	0.47	2-	W
199588	2006 FO ₁₆	5.75	0.41	3-	W	203217	2001 FX ₉		0.16-0.26		N
199788	2006 LU ₃	39.014	0.47	2	W	203222	2001 FH ₈₁	7.28	0.30	2-	W
199852	2007 EB ₈₀	4.703	0.55-0.59	2	W	203254	2001 QG ₁₂₉	5.855	0.51-0.62	2	W
199978	2007 JZ ₁	57.	0.44	2		203261	2001 QA ₁₈₇	25.398	0.47	2	W
200028	2007 PW ₂₈	7.19	0.27	2+		203318	2001 TN ₆₆				HNW
200032	2007 PU ₄₃	132.	1.8	1+		203334	2001 TC ₂₂₆	12.72	0.62	1+	DAW
200157	1998 ST ₄₀				HNW	203339	2001 UT ₆₀	10.532	0.43	2	W
200192	1999 RT ₁₁₉	3.05	0.26	2	W	203370	2001 WY ₃₅	8.344	1.40	3	
200256	1999 VQ ₂₂₅	5.96	0.25	2	W	203395	2001 XW ₁₄₂	4.44	1.02	2	W
200277	1999 XY ₂₁₇	6.441	0.26-0.31	2	W	203471*	2002 AU ₄	13.26	1.32-1.36	3-	W
200284	1999 YE ₁₂	15.562	0.84	2	W	203630	2002 FR ₂₇	4.536	0.39	2	W
200296	2000 AV ₂₁₈	5.33	0.77	2	W	203634	2002 GH ₃	7.572	0.68	2	W
200302	2000 CW ₇₈				HNW	203712	2002 PF ₁₅₉	2.59	0.76	2	W
200406	2000 SK ₇₄	3.388	0.48	2	W	203729	2002 QR ₅₃	6.993	0.42	2	W
200481	2000 YX ₁₇	113.580	1.11	2	W	203738	2002 QB ₈₈	2.57	0.43	2	W
200596	2001 RX ₇₀	2.742	0.64	2	W	203742	2002 QH ₁₁₁	4.10	0.32	2	W
200647	2001 SF ₃₂₇	6.3	0.80	2	W	203790	2002 TC ₄₈	28.186	0.41	2	W
200730	2001 VV ₅₃	11.864	0.46	2	W	203810	2002 TY ₁₉₀	34.471	0.44	2	W
200754	2001 WA ₂₅	3.653	0.31	2+		203811	2002 TB ₁₉₁	4.624	0.62	2	W
200762*	2001 XX	13.0	0.60	2	W	203815	2002 TQ ₂₃₅	9.484	0.75	2	W
200772	2001 XJ ₂₃	8.9	0.66	2-	W	203819	2002 TZ ₂₃₇	102.274	0.20	2	W
200852	2001 YD ₃₅	2.67	0.34	2	W	203822	2002 TB ₂₉₁	45.497	0.68	2	W
200972	2002 CT ₉₄	5.417	0.97	2	W	203996	2003 TX ₁₆	2.87	0.42	2	W
201006	2002 CH ₁₈₅	30.4	0.19	2		204075	2003 WK				HNW
201023	2002 CZ ₂₆₄	9.90	0.63	2	W	204124	2003 XY ₁₀	7.203	0.38	2	W
201092	2002 GK ₉₄	18.055	0.59	2	W	204147	2003 YB ₁₁₀	2.64	0.39	1+	W
201187	2002 PK ₇₀	107.127	0.44	2	W	204169	2004 BV ₃₂	7.62	0.67	2	W
201198	2002 PD ₁₂₃	7.386	0.78	2	W	204193	2004 BB ₉₀	2.73	0.25	2	W
201236	2002 RG ₂₄	4.87	0.33	2	W	204203	2004 CT ₅	3.42	0.18	2	W
201248	2002 RK ₉₄	8.380	0.34	2	W	204214	2004 CW ₅₈	8.07	0.81	2	W
201258	2002 RZ ₁₃₈	35.453	0.19	2	W	204241	2004 DU ₄₈	6.00	0.57	2	W
201263	2002 RP ₁₆₀	4.547	0.81	2	W	204247	2004 DC ₅₈				HNW
201297	2002 SK ₆₀	8.42	0.83	2-	W	204256	2004 EW ₆₈	4.286	0.10	1	W
201310	2002 TJ ₉₁	2.837	0.13	2	W	204278	2004 HG ₁	6.621	0.88	2	W
201320	2002 TC ₁₁₉	5.468	0.31	2	W	204385	2004 TL ₁₃₁	31.797	0.31	2	W
201336	2002 TU ₁₆₆	5.522	0.51	2	W	204504	2005 CR ₄₅	5.36	0.76	2	W
201369	2002 TA ₂₇₈	5.275	0.74-0.77	2	W	204517*	2005 EL ₂₁	3.108	0.22-0.25	3-	
201370	2002 TY ₂₉₀	93.971	0.79	2	W	204518	2005 EM ₂₅				HNW
201377	2002 UN ₁₅	19.787	0.42	2	W	204529	2005 EF ₉₀	5.49	0.58	2	W
201386	2002 VN ₉	9.539	0.52	2	W	204565	2005 EF ₂₉₀	2.74	0.23	2	W
201392	2002 VC ₄₁	9.100	0.89	2	W	204668	2006 DP ₁₅				HNW
201435	2003 BQ ₈₉				HNW	204831	Levski	2.59	0.44	2	W
201528	2003 QL ₂₀	4.596	0.49	2	W	204877	2007 TF ₅	2.5	0.3	2-	W
201556	2003 RZ ₁₈	6.81	0.70-0.80	2	W	205260	2000 RO ₉₃	3.32	0.32	2	W
201581	2003 SS ₈₀	9.41	0.55	2	W	205383	2001 BV ₄₇	5.554	0.30	3-	W
201583	2003 SJ ₈₇	7.967	0.44	2	W	205402	2001 EY ₁₆	35.193	0.72	2	W
201689	2003 UO ₁₁₆	5.75	0.26	2	W	205420	2001 FN ₁₇₆	5.058	0.10	1	W
201710	2003 UO ₁₆₇	114.561	0.60-0.75	2	W	205472	2001 QS ₁₅₂	10.472	0.34	2	W
201719	2003 UD ₁₈₉	13.33	0.89	2	W	205492	2001 QM ₂₆₇				HNW
201726	2003 UH ₁₉₅	44.630	0.62	2	W	205594	2001 TT ₁₉₉	8.436	0.68	2	W
201731	2003 UY ₂₂₅	3.3	0.30	2-	W	205665	2001 XU ₁₇₄	5.75	0.57	2	W
201746	2003 UN ₂₇₆	138.782	0.83	2	W	205706	2002 AE ₃₅	33.1	0.82	2+	W
201751	Steinhardt				HNW	206130	2002 SJ ₅₂	14.121	0.57	2	W
201758	2003 WC ₂₆	8.50	0.68	2	W	206156	2002 TX ₁₇₀	5.89	0.40	1+	W
201784	2003 WS ₁₁₃	4.36	0.63	2	W	206234	2002 WC ₄				HNW
201838	2003 YM ₆₆	9.378	0.63	2	W	206237	2002 WG ₁₅	3.368	0.19-0.23	2	W
201845	2003 YB ₈₅	7.789	0.68	2	W	206240	2002 WC ₂₇	8.07	0.74	2	W
201873	2003 YU ₁₆₂	6.436	0.67	2	W	206245	2002 XU ₁₇	5.049	0.54-0.60	2	W
201879	2004 AC ₁	8.563	0.53	2	W	206342	2003 PQ ₆	4.823	0.71	2	W
202080	2004 SR ₄₀	2.976	0.32	2	W	206378	2003 RB	37.5	0.2 -0.43	2	T?
202122*	2004 TY ₁₂₇	5.401	0.78	3-	W	206400	2003 SW ₅₂	4.1	0.37	1+	W
202238	2005 AC ₂	5.63	0.40	2	W	206452	2003 SA ₃₀₉	4.211	0.23	2	W
202264	2005 AB ₆₁	6.76	0.15	2	W	206619	2003 WS ₁₁₇	5.90	0.85	2	W

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Planet	Period	Variation	Note	Planet	Period	Variation	Note
206638 2003 WA ₁₉₀	10.587	0.41-0.47	2 W	211714 2003 YT ₁₉	11.416	0.59	2 W
206698 2004 AD ₁₃	3.44	0.52	2 W	211809 2004 DO ₃₄			HNW
206762 2004 CE ₂₁	6.605	0.68	2 W	211895 2004 JX ₃₂	37.	1.77	2+
206877 2004 FF ₁₃₉	3.65	0.43	2 W	212048 2005 CE ₇₆	3.18	0.89	2 W
206952 2004 RE ₃₁₀	7.071	0.20	2 W	212276 2005 KO ₁	5.743	0.20	1 W
206953 2004 RV ₃₁₀			HNW	212302 2005 NX ₅₇	6.38	0.35	2 W
207121 2005 AT ₅₈	5.90	0.60	2 W	212364 2006 GC ₂₃	2.832	0.25	2 W
207384 2005 QO ₁₇₃	22.881	0.47	2 W	212378 2006 HW ₄₃	5.138	0.59	2 W
207398 2006 AS ₂	4.480	0.20	3 W	212450 2006 QO	5.476	0.68	2 W
207482 2006 HN ₃₁	4.931	0.52	2 W	212502 2006 RQ ₆	46.	0.10	1 W
207582 2006 QE ₉	4.226	0.68	2 W	212536 2006 RY ₉₁	5.951	0.30	1+ W
207637 2006 TE ₂₄	5.75	0.41	2 W	212672 2006 UP ₃₃₂	4.12	0.55	2 W
207690 2007 RE ₁₉	8.35	0.59	2 W	212791 2007 TN ₂₃₂	10.21	0.41	2 W
207744 2007 RY ₂₄₇			HNW	212812 2007 TX ₃₉₁			HNW
207758 2007 SN ₁₉	3.822	0.47-0.48	2 W	212930 2008 BX ₆	3.12	0.50	2 W
207932 2008 YW ₁₆	10.67	0.47	2 W	212933 2008 DQ ₈	11.57	0.50	2 W
207945 1991 JW	3.15	0.17	2-	212935 2008 UH ₉₆	6.879	1.04	2 W
208023 1999 AQ ₁₀	2.67	0.09-0.20	2 W	213017 1995 SO ₈₁	58.	0.6	1 W
208096 2000 AT ₈₈	8.74	0.75	2 W	213173 2000 ST ₁₀₂	18.679	0.32	2 W
208102 2000 BX ₂	5.13	0.81	2 W	213177 2000 SW ₁₂₅	7.637	0.83	2 W
208150 2000 FJ ₃₄	5.18	0.82-1.38	3- W	213216 2000 UJ ₉₂	4.594	0.68	2 W
208173 2000 QM ₂₄	180.561	0.82	2 W	213321 2001 SG ₁₁₉	14.692	0.49	2 W
208190 2000 QY ₁₉₃	3.68	0.64	2 W	213452 2002 CP ₃₃	4.78	0.7	3-
208398 2001 SD ₂₀₀	9.23	0.41	2 W	213469 2002 EX ₆₀	7.174	0.52	2 W
208420 2001 SQ ₃₂₄	2.32	0.26	2 W	213479 2002 EY ₁₃₅	5.651	0.49	2 W
208422 2001 SE ₃₄₀	6.96	0.76	2 W	213480 2002 EV ₁₄₈	436.675	0.32	2 W
208562 2002 BP ₂₉	4.627	0.50	2 W	213665 2002 SS ₅₀	3.7	0.18	N
208665 2002 GJ ₁₂	10.11	0.43	2 W	213671 2002 TK ₄₁	30.448	0.58	2 W
208923 2002 UZ ₁₁	2.212	0.77	2 W	213700 2002 TB ₂₈₈	6.202	0.96	2 W
208982 2003 AV ₈	8.07	0.73	2 W	213779 2003 EP ₁₄	5.55	0.96	2 W
208993 2003 AZ ₆₉	7.68	0.30-0.35	2 W	213829 2003 QN ₇₆	5.045	0.76	2 W
208996 2003 AZ ₈₄	13.42	0.10-0.14	2 AB	213834 2003 QD ₁₀₃	5.39	1.34	2+
209026 2003 FQ ₂₁	7.22	0.30	2 W	213835 2003 QZ ₁₁₀	330.428	0.55	2 W
209060 2003 QU ₅₀	4.14	0.60	3-	213900 2003 UN ₃₄	4.90	0.58	1+ W
209188* 2003 UW ₂₀₀	6.89	0.57	2+ W	213991 2004 BK ₄₂	4.61	0.72	2- W
209271 2003 XS ₁₂	6.426	0.49	2 W	214088 2004 JN ₁₃	6.342	0.17-0.40	3 W
209327 2004 BC ₉₂		0.51	W	214168 2005 CO ₃₇	2.62	0.64	1+ W
209428 2004 FR ₅₀	4.73	0.61	2 W	214247 2005 EA ₂₅₇	7.731	0.36	2 W
209460 2004 GG ₂₈	13.428	0.47-0.74	2 W	214265 2005 GU ₃₁	4.666	0.54	2 W
209495 2004 JS ₁₀	9.643	0.70	2 W	214304* 2005 JK ₁₅	11.73	0.51	3- W
209499 2004 JG ₂₁			HNW	214479 2005 TB ₇₃	20.594	0.84	NA
209512 2004 RO ₂		1.1	I	214843 2006 VO ₁₇₀	7.56	0.95	2 W
209579 2004 XL ₈₉	6.055	0.69-0.97	2 W	214869* 2007 PA ₈	102.24	0.47-0.58	3 p
209779 2005 GS ₁	2.578	0.67	2 W	215112 1997 XR ₇	6.503	0.84	2 W
209824 2005 GP ₁₃₃	5.93	0.82	2 W	215130 1999 RB ₁₉₉	5.292	0.71	2 W
209924 2005 WS ₅₅	2.726	0.25-0.25	2 W	215133 1999 TU ₃₃	6.241	0.87	2 W
209929 2005 YD ₂₈₈	6.994	0.24	2 W	215187 2000 LQ ₂₅	17.735	0.61	NA
209930 2006 BQ	5.957	0.74	2 W	215188* 2000 NM	9.24	0.25-0.42	3 W
209933 2006 BH ₁₅₀			HNW	215206 2000 SY ₂₄₈			HNW
209979 2006 HT ₄₄	3.19	0.90	2 W	215209 2000 SL ₃₃₉	12.00	0.50	2- W
210080 2006 QU ₃₄	7.921	0.46	2 W	215442 2002 MQ ₃	473.	0.38	3 B?
210145 2006 SG ₅₇	11.097	0.47-0.54	2 W	215530 2002 VE ₁₀₃	7.016	0.41	2 W
210258 2007 RW ₂₈₅	8.81	0.71	2 W	215588* 2003 HF ₂		<0.1	
210278 2007 TJ ₂₉	5.22	0.36	2 W	215594 2003 QQ ₂₇	14.081	0.40	2 W
210317 2007 TM ₂₁₇	2.81	0.40	2 W	215619 2003 SQ ₁₆₈	4.646	0.11	3 W
210450 2619 P-L	64.	0.25	1+ W	215701 2003 YD ₁₂₁	5.997	0.35-0.46	2 W
210474 1995 ST ₅₈	3.33	0.54	2 W	215750 2004 EK ₈₅	5.49	0.86	3 W
210511 1998 OX ₁₁	3.952	0.31	2 W	215792 2004 MS ₃	4.678	0.51	2 W
210655 2000 NQ ₇	7.585	0.54	2 W	215878 2005 EM ₂₃₀	25.882	0.68	2 W
210656 2000 OA ₂₃	23.353	0.45-0.58	2 W	215939 2005 LQ ₅	6.696	0.70	2 W
210662 2000 QU ₃₁	6.131	0.63	2 W	216087 2006 QE ₁₃₅			HNW
210685 2000 RE ₉₂	7.606	0.34	2 W	216107 2006 RZ ₄₇	11.5	0.12	1 W
210741 2000 UW ₆₅	6.11	0.64	1 W	216185 2006 TT ₆₄			HNW
210750 2000 VO ₁₂	40.886	0.74	2 W	216258 2006 WH ₁	7.30	0.20	2 W
210865 2001 RM ₈₄	8.856	0.32	2 W	216413 2008 RR ₆₈	3.44	0.34	1+ W
210976 2001 VK ₆₈	3.411	0.26-0.27	2 W	216428 Mauricio	3.943	0.33-0.35	2 W
210992 2001 WY ₉₂	17.217	0.33	2 W	216446 2009 FA ₄₅		0.51	W
211006 2001 XT ₁₈₁	11.936	0.44	2 W	216479 1999 TF ₂₃₇			HNW
211068 2002 CF ₁₉₉	4.264	0.65	2 W	216484 1999 VE ₈₅	3.143	0.15	2- W
211112 2002 FX ₃₁	8.805	0.63	2 W	216570 2002 CW ₅₄	8.397	0.58	2 W
211243 2002 QJ ₃₀	5.85	0.56	2 W	216613 2002 TU ₂₈₁	32.933	0.67	2 W
211339 2002 TJ ₃₅	5.14	0.73	2+ HW	216616 2002 VK ₁₁	47.538	0.85	2 W
211349 2002 TB ₁₂₀	8.4	0.73	N	216668 2004 BJ ₃₈	14.006	0.41	2 W
211390 2002 UG ₃₄	35.304	0.35	2 W	216732 2005 GA ₁₆₉	4.66	0.27	2- W
211435 2002 YM ₉	8.81	0.69	2 W	216908 2009 JQ	8.904	0.31	2 W
211439 2002 YD ₂₃	12.993	0.43-0.51	2 W	216910 Vnukov	8.90	0.59	1+ W
211518 2003 QK ₅₅	5.870	0.40	2 W	216922 1997 MZ ₇			HNW
211523 2003 QX ₆₀	6.54	0.53-0.54	3- W	216957 1999 XH ₂₂₅			HNW
211531 2003 QV ₁₀₃	9.353	0.49	2 W	216958 2000 AK ₂₄	8.589	0.64	2 W
211572 2003 SF ₁₅₇	32.927	0.09	1 W	216975 2000 NS ₃	5.19	0.42	2+ W

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Planet		Period	Variation	Note	Planet		Period	Variation	Note
216989	2000 RB ₁₄	3.625	0.35	2 W	220124*	2002 TE ₆₆	45.4	0.51	2
217032	2001 PJ ₄	7.704	0.42	2 W	220127	2002 TD ₇₇	6.607	0.37	2 W
217035	2001 PT ₆₂	11.03	0.82	2+ W	220143	2002 TO ₁₃₄	3.502	0.08	2+
217039	2001 QK ₄₃	7.967	0.46	2 W	220179	2002 UM ₁₀			
217202	2002 TP ₁₉₈	13.62	0.50	1+ DAW	220197	2002 VO ₂₁	5.457	0.57	2 W
217232	2003 BU ₄₈	17.646	0.25-0.30	2 W	220205	2002 VH ₃₀	9.835	0.36	2 W
217236	2003 FQ ₇₈	5.71	0.76	2 W	220239	2002 XG ₁₅	204.107	0.28	2 W
217258	2003 WE ₄₁	4.36	0.33	2 W	220242	2002 XY ₂₈			
217307	2004 LM ₆	17.556	0.35	2 W	220243	2002 XJ ₃₁	2.210	0.67	2 W
217335	2004 RG ₈₇	5.744	0.58	2 W	220324	2003 FA ₃₂	6.293	0.71	2 W
217411	2005 LD ₅₀	1.91	0.50	1+ W	220428	2003 UJ ₃	33.470	1.04	2 W
217508	2006 TE ₁₀₃	6.27	0.92	3- W	220448	2003 YF ₆₅		0.57	2 W
217628	Lugh	8.55	0.08	1 W	220457	2004 BY ₁₀			
217680	1999 CC ₈₆	7.173	0.24	2 W	220838	2004 UD ₉	5.220	0.43	2 W
217691	1999 RD ₂₀₉			2 HNW	220988	2005 NE ₃₂	4.295	0.72	2 W
217695	1999 RT ₂₄₂	9.271	0.16	2 W	221053	2005 QJ ₁₁₈			
217723	1999 VJ ₁₆₅			2 HNW	221153	2005 TU ₇₃	5.422	0.53	2 W
217741	2000 CC ₉	6.530	0.59-0.64	2 W	221175	2005 UR ₇	5.074	0.56	2 W
217807	2000 XK ₄₄	51.9	0.5 -1.2	3 T	221189	2005 UN ₄₁	6.340	0.56	2 W
217813	2001 BD ₁₉		1.01	1 W	221216	2005 UM ₉₁	6.665	0.31	2 W
217888	2001 RA ₉₄	3.44	0.44	2 W	221267	2005 US ₃₁₃	3.8397	0.10	2 NA
217923	2001 SR ₃₄₅	3.153	0.34	2 W	221315	2005 VM ₄₂	5.267	0.42	2 W
217966	2001 VT ₁₀	55.032	0.08	1 W	221344	2005 WS ₇₀	13.72	0.95	1 DAW
217983	2001 VT ₉₈	9.598	0.48	2 W	221540	2006 TG ₁₂₈	408.946	0.83	2 W
218026	2001 YN ₈₉	6.15	0.82	2+ W	221616	2006 XX ₃₈	10.183	0.69	2 W
218099	2002 MH ₃	5.0339	0.27	2+ W	221652	2007 BM ₇₈			
218123	2002 PR ₁₁₄			2 HNW	221781	2007 RD ₆₂	55.544	0.59	2 W
218138	2002 RT ₂₉	4.286	0.37	2 W	221794	2008 BC ₃₄	11.39	0.80	2 W
218144	2002 RL ₆₆	587.	0.25-0.32	3- TOB?	221903	2008 KY ₃₈	10.256	0.22	2 W
218150	2002 RC ₁₀₆	5.156	0.56	2 W	221910	2008 QT ₂₃	6.07	0.23-0.41	2+
218165	2002 RG ₂₄₅	3.583	0.41	2 W	221922	2009 OJ	6.524	0.18	2 W
218190	2002 TR ₇₈			2 HNW	221994	1997 PT ₄	6.479	0.56-0.71	2 W
218204	2002 TN ₂₁₃	3.793	0.46	2 W	222073*	1999 HY ₁	10.37	0.16	2 W
218213	2002 TC ₂₈₆			2 HNW	222177	2000 BL ₂₉		0.58	2 W
218277	2003 FK ₂₇	2.90	1.10	1 W	222206	2000 EE ₁	4.128	0.50	2 W
218305	2003 SU ₃₀₆	5.11	0.37	2- W	222252	2000 QX ₃₄	10.902	0.53	2 W
218309	2003 UJ ₅₃	6.343	0.37	2 W	222271	2000 RJ ₄₉	12.266	0.48	2 W
218327	2004 BF ₃			2 HNW	222274	2000 RE ₈₃	2.74	0.63	2 W
218416	2004 RE ₉₇	34.269	0.44	2 W	222288	2000 SJ ₁₃₀	3.869	0.45	2 W
218430	2004 RJ ₁₇₈	13.884	0.80	2 W	222292	2000 SS ₁₆₆	5.059	0.25	2 W
218439	2004 RM ₁₀₁	12.272	0.36	2 W	222317*	2000 TE ₁	11.83	0.63	2 W
218440	2004 RK ₁₉₂	4.118	0.25	2 W	222330	2000 UD ₆₆	2.620	0.19	2 W
218444	2004 RT ₂₀₀	30.075	0.85	2 W	222439	2001 QW ₄₆			
218445	2004 RS ₂₁₂	6.593	0.57	2 W	222490	2001 SA ₂₂₇		1.5	1 I
218590	2005 LJ ₄₀	3.29	1.14	1+ W	222494	2001 SV ₂₅₁	5.779	0.67	2 W
218602	2005 NE ₆₉	1.55	0.30	1+ W	222540	2001 UA ₁₇₃	10.649	0.56	2 W
218609	2005 OZ ₃	9.72	0.8	2- HW	222599	2001 XZ ₁₄	5.260	0.48	2 W
218743	2005 UT ₄₈₀	2.986	0.37	2 W	222610	2001 XG ₅₆			
218865	2006 WY ₂₀₄	4.82	0.43	2 W	222658	2001 XJ ₁₉₄	5.89	0.21	2 W
218942	2008 CK ₁₆₅	4.47	0.73	2- W	222679	2001 YY ₅₄	151.922	0.57	2 W
219032	1995 EM ₃	5.82	1.27	2 W	222685	2001 YF ₁₁₅	6.522	0.35	2 W
219071	1997 US ₉	3.520	0.2	2 W	222703	2002 AG ₇₁	7.024	0.67	2 W
219134	1998 VG ₄₁	10.238	0.40	2 W	222787	2002 CQ ₁₉₇	5.39	0.88	2 W
219167	1999 TH ₅₄	3.29	0.26	2 W	222793	2002 CO ₂₀₅	6.71	0.70	2 W
219192	1999 UE ₇	5.456	0.50	2 W	222861	2002 EZ ₁₃₄	8.99	0.74	2 W
219296	2000 DJ ₃₅	4.71	0.35	3- W	222869	2002 FB ₆	8.98	0.28	2 W
219306	2000 DM ₁₀₇			2 HNW	222931*	2002 NQ ₇	>1.0	>0.44	2 N
219336	2000 OL ₆₀	6.126	0.63	2 W	222965	2002 QJ ₄₅	8.21	0.65	2 W
219407	2000 SL ₂₃₀	4.36	0.50	3 W	223047	2002 TQ ₈₀	10.424	0.70-0.98	2 W
219441	2000 UH ₈₀	6.807	0.37	2 W	223058	2002 TA ₁₉₀			
219452	2000 WA ₇₈			2 HNW	223059	2002 TR ₁₉₈			
219525	2001 QG ₉₇	4.6	0.18	2 W	223120	2002 VZ ₃₂	2.44	0.39	2 W
219543	2001 QB ₂₉₃	110.440	0.40	2 W	223121	2002 VN ₃₃	6.003	0.74	2 W
219615	2001 TH ₁₁₉	4.517	0.78	2 W	223151	2002 XP ₈	11.341	0.66	2 W
219638	2001 UB ₆₅	43.756	0.79	2 W	223155	2002 XY ₃₄			
219663	2001 VZ ₁₃	4.705	0.77	2 W	223170	2002 YP ₇	8.321	0.60-0.66	2 W
219668	2001 VQ ₃₇	65.866	0.42	2 W	223174	2002 YF ₂₂			
219686	2001 WE ₃₇	10.214	0.49	2- A	223193	2003 AX ₇₁	4.68	0.91	2 W
219706	2001 XN ₄₃	6.080	0.74	2 W	223209	2003 BL ₄₉			
219732	2001 XN ₁₅₂	10.557	0.41	2 W	223252	2003 FQ ₇₂	4.95	1.03	3 W
219743	2001 XZ ₂₃₃	15.200	0.41	2 W	223253	2003 FJ ₇₉	2.765	0.31	2 W
219774	2001 YY ₁₄₅	1007.671	0.86	2 W	223291	2003 HN ₄₉	5.207	0.60	2 W
219803	2002 AX ₁₅₁			2 HNW	223407	2003 SF ₁₆₀	3.52	0.45	2+ W
219898	2002 ER ₁₁₈	6.71	0.45	2 W	223409	2003 SV ₁₆₉			
220026	2002 QG ₅₅	8.065	0.58-0.71	2 W	223512	2004 CA ₄₃	4.97	0.63	2 W
220080	2002 RX ₂₂₂			2 HNW	223521	2004 CZ ₁₀₀	3.176	0.31-0.45	2 W
220111	2002 TH ₃₂			2 HNW	223529	2004 DK ₄₂	9.986	0.38	2 W
220117	2002 TQ ₄₆	3.340	0.28	2 W	223622	2004 JX ₁₅	8.168	0.65	2 W
220119	2002 TV ₄₇	32.975	0.10	1 W	223628	2004 JF ₃₀	4.261	0.47	2 W
220123	2002 TR ₆₀	2.744	0.08	2 W	223634	2004 KV ₄	3.235	0.83	2 W

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Planet		Period	Variation	Note	Planet		Period	Variation	Note
223665	2004 PH ₃₇	397.159	0.58	2 W	227503	2005 XR ₈₄	30.238	0.40	2 W
223751	2004 RR ₁₉₆	109.986	0.55	2 W	227607	2006 AD ₇₁	4.64	0.60	2 W
223788	2004 SK ₅₀	11.576	0.70	2 W	227683	2006 CO ₄₉	2.87	0.61	2 W
223995	2005 EM ₁₄₀	8.052	0.85	2 W	227731	2006 EY ₆₁	5.22	0.77	2 W
224074	2005 NJ ₅₃	6.418	0.70-0.74	2 W	227837	2007 CX ₅₆	5.726	0.68-0.70	2 W
224325	2005 UJ ₄₆	5.55	0.97	3- W	227839	2007 CC ₇₃	2.41	0.56	2 W
224352	2005 UB ₁₁₁	6.437	0.59	2 W	227840	2007 DC ₁			2 W HNW
224415	2005 UB ₃₄₉	7.111	0.67	2 W	227955	2007 GQ ₆₇	5.13	0.78	2+ W
224478	2005 VN ₇₅	5.317	0.70	2 W	227961	2007 HO ₁₀	7.467	0.73	2 W
224553	2005 WE ₁₅₁	15.166	0.65	2 W	227991	2007 JJ ₁₀	20.305	0.33	2 W
224554	2005 WB ₁₅₂	9.564	0.33	2 W	228006	2007 RL ₆	9.90	0.21	2- W
224611	2005 YV ₆₃	10.43	0.75	2- W	228102*	2008 SY ₁₇₂	7.259	0.25-0.26	2+ W
224784	2006 QM ₁₁₅			HNW	228114	2008 TB ₆₁		1.03	1 W
224792	2006 SF ₃₇₁	7.896	0.11		228142	2009 RZ ₄₅			HNW
224829	2006 WD ₈₀			HNW	228176	2009 SP ₂₆₃			HNW
224927	2007 DF ₄₂			HNW	228187	2009 TQ ₃₅	2.93	0.27	2 W
224946	2007 DF ₁₀₆	8.65	0.68	1+ W	228188	2009 UA ₂₁	4.839	0.77	2 W
224958	2007 EM ₁₈			HNW	228255	1999 ET ₇	4.2	0.25	1 W
225088*	2007 OR ₁₀	22.40	0.04	2- A	228328	2000 RO ₁₉	125.577	0.76	2 W
225176	2008 HV ₁₈	20.524	0.50	2 W	228330	2000 RL ₃₄	6.937	0.48	2 W
225212	2008 RF ₂₅	>18.	>0.75	2 W	228332	2000 RQ ₉₉	17.430	0.11	2 W
225263	2009 RQ ₃₀	7.661	0.47	2 W	228334	2000 SK ₂₈	9.235	0.82	2 W
225321	1997 XP ₇	7.920	0.36	2 W	228381	2000 WM ₁₃₃	16.161	0.47	2 W
225351	1998 TA ₂₀	13.62	0.80	1 DAW	228384	2000 XD ₁₄			HNW
225381	1999 TL ₉₀	5.792	0.75	2 W	228385	2000 XW ₂₀			HNW
225415	1999 XA ₂₆₁	2.96	0.31	2 W	228533	2001 VR ₁₉	21.502	0.59	2 W
225416	1999 YC	4.531	0.69-0.88	3 W	228561	2001 XC ₁₃₇			HNW
225445	2000 DO ₃₆	4.12	0.45	2 W	228564	2001 XP ₁₈₇			HNW
225463	2000 EQ ₆₇			HNW	228570	2001 XA ₂₂₁	3.9904	0.15	1+ W
225474	2000 FE ₅₉	6.936	0.57	2 W	228576	2001 YR ₇₂	2.516	0.14	2 W
225482*	2000 GS ₁₃₆	51.2	0.36	2 W	228578	2001 YB ₉₂			HNW
225503	2000 PY ₂₁	79.931	0.73	2 W	228582	2001 YJ ₁₁₂	5.393	0.46	2 W
225507	2000 QG ₇₁			HNW	228587*	2002 AP ₇	7.45	0.12	2- W
225534	2000 SX ₂₅	180.356	0.64	2 W	228603	2002 AB ₁₇₇			HNW
225546	2000 SH ₁₇₃	10.336	0.80	2 W	228618	2002 CC ₄₉	11.826	0.50	2 W
225554	2000 SP ₃₀₄	5.660	0.96	2 W	228624	2002 CD ₁₀₆			HNW
225561	2000 SB ₃₇₂	281.553	0.55	2 W	228653	2002 EZ ₁₂₉	8.29	0.23	2 W
225567	2000 TD ₄₅	63.332	0.77	2 W	228729	2002 TH ₁₂₁	9.247	0.55-0.59	2 W
225617	2001 AQ ₁₄			HNW	228747*	2002 VH ₃	7.961	0.20	3- W
225685	2001 QW ₄₁			HNW	228821	2003 BV ₅₇	8.180	0.81-0.90	2 W
225716	2001 RH ₂₃			HNW	228830	2003 DP	4.294	0.51-0.64	2 W
225736	2001 RB ₁₅₀			HNW	228871	2003 HQ ₃₁	11.152	0.67	2 W
225752	2001 ST ₁₅₂			HNW	228894	2003 RD ₁₁	5.092	0.59	2 W
225790	2001 UY ₁₁₁	4.499	0.56	2 W	229020*	2003 YU ₆₈	37.89	0.95	3 W
225806	2001 VC ₈₂	8.260	0.70	2 W	229062	2004 GB ₂₄	2.46	0.52	2 W
225866	2001 XM ₂₂₃	9.264	0.53	2 W	229126	2004 RP ₁₇₆	6.794	0.60	2 W
225873	2001 YL ₄	2.8464	0.39	NA	229130	2004 RR ₁₉₁	4.317	0.60	2 W
225930	2002 AL ₁₆₁	241.784	0.45	2 W	229195	2004 TV ₂₈₅	10.243	0.20	2 W
226028	2002 ED ₁₂₈	5.45	0.90	1+ W	229216	2004 YK ₇₂	3.877	0.42	2 W
226039	2002 GB ₁₃	4.592	0.50	2 W	229223	2004 XB ₅	16.170	0.45	2 W
226044	2002 GE ₆₆	4.02	0.49	2 W	229401	2005 SU ₁₅₂	28.	0.76	2 W
226193	2002 TY ₂₈₅	6.19	0.69	2 W	229425	Grosspointner	5.89	0.55	1+ W
226249	2002 XQ ₇₅	3.008	0.11	2 W	229468	2005 UE ₂₅₃	4.97	0.76	2 W
226268	2003 AN ₅₅	31.168	0.35	3- W	229495	2005 UG ₅₀₈	5.348	0.58	2 W
226278	2003 AY ₉₂			HNW	229567	2006 AR ₃₃	192.207	0.63	2 W
226311	2003 CX ₇	6.49	0.69-0.71	2 W	229578	2006 BD ₃₈			HNW
226319	2003 DQ ₂₀			HNW	229702	2007 EO ₄₈	9.331	0.55	2 W
226465	2003 SS ₁₄₈			HNW	229762	2007 UK ₁₂₆	11.05	0.03	2- W
226486	2003 SV ₂₄₁			HNW	229782	2008 PZ ₃			HNW
226514*	2003 UX ₃₄			RNB	229810	2008 SE ₁₆₄	4.27	0.46	2- W
226554	2003 WR ₂₁			I	229820	2008 TA ₈₄			HNW
226604	2004 CC ₈₆	3.56	0.49	2 W	230034	2000 QV ₂₆			HNW
226608	2004 DQ ₂₁	5.102	0.61-0.88	2 W	230047	2000 SJ ₄₀	3.940	0.47	2 W
226642	2004 FZ ₆₄	4.962	0.34	2 W	230067	2000 TG ₇₂	9.32	0.44	2 W
226682	2004 HP ₄₃	4.47	0.77	2 W	230111	2001 BE ₁₀	4.194	0.30-0.32	3 W
226691	2004 JA ₂₂	19.9	0.20	1+ W	230114	2001 BR ₇₁			W
226714	2004 PV ₁₃	2.40	0.81	1+ W	230151	Vachier	9.082	0.69	2 W
226751	2004 RE ₂₈	6.91	0.62	3- W	230162	2001 QE ₂₄₄	5.78	0.47	2 W
226808	2004 RC ₂₁₇	5.174	0.39	2 W	230204	2001 ST ₂₆₅	4.6	0.59-0.70	2 W
226828	2004 RR ₃₂₁	259.241	0.90	2 W	230213	2001 TP ₃₁	11.466	0.23-0.28	2 W
226838	2004 SL ₁₉	6.196	0.72	2 W	230224	2001 TS ₁₆₀	4.836	0.38-0.57	2 W
226863	2004 TK ₃₈	6.44	0.90	1 DAW	230282	2001 XH ₂₁₅			HNW
226971	2004 VH ₁₁₂	6.08	0.76	2 W	230290	2001 YQ ₁₃	110.470	0.84	2 W
227131	2005 OB ₁₀			HNW	230313	2002 CE ₂			HNW
227136	2005 OL ₁₄			HNW	230570	2003 BQ ₆₄	12.	0.30	1 DW
227139	2005 OG ₂₆	7.778	0.44-0.47	2 W	230589	2003 EM ₁₂	12.54	0.38	2 W
227189	2005 QS ₆₇	4.17	0.47	2 W	230676	2003 SP ₂₉₂	7.310	0.75	2 W
227214	2005 QU ₁₇₇			HNW	230690	2003 UX ₁₆	4.782	0.33	2 W
227234	2005 SR ₅	2.27	0.57	2 W	230738	2003 WO ₁₀			W
227329	2005 TQ ₁₉₀			HNW	230871	2004 RA ₁₉₉	13.129	0.65	2 W

MINOR PLANET LIGHTCURVE PARAMETERS

Planet	Period	Variation	Note	Planet	Period	Variation	Note				
230872	2004 <i>RG</i> ₁₉₉	535.057	0.66	2	W	234311	2001 <i>AL</i> ₅₃	6.192	0.31-0.36	2	W
230928	2004 <i>VD</i> ₅₄	8.07	1.09	2	W	234314	2001 <i>BY</i> ₃₀	3.37	0.33	2	W
230946	2004 <i>XT</i> ₄₅				HNW	234400	2001 <i>QR</i> ₂₉₂	4.049	0.17	2	W
230965	2004 <i>XA</i> ₁₉₂	7.88	0.07	1+	1	234514	2001 <i>TW</i> ₂₄₀	9.618	0.73	2	W
230974	2005 <i>AZ</i> ₁₄				HNW	234522*	2001 <i>US</i> ₄₈	5.74	0.94	2	
231051	2005 <i>GW</i> ₆₀	9.4	0.60	2	W	234565	2001 <i>XM</i> ₅₀	7.93	>0.7	1	W
231134	2005 <i>TU</i> ₄₅	2.672	0.45	3	W	234631	2002 <i>CL</i> ₁₁	6.11	0.42	2	W
231291	2006 <i>BZ</i> ₁₀₂				W	234696	2002 <i>GW</i> ₁₂₉	5.55	0.58	2	W
231333	2006 <i>DO</i> ₁₇₉	5.377	0.53	2	W	234761	Rainerkracht	7.44	0.26	2	W
231336	2006 <i>DL</i> ₁₉₇	9.313	0.78	2	W	234795	2002 <i>QR</i> ₆₁	9.41	0.82	2	W
231421	2007 <i>EU</i> ₅₅	4.195	0.16	2	W	234841	2002 <i>RM</i> ₁₇₄	9.546	0.68	2	W
231449	2007 <i>HH</i> ₅₁				HNW	234846	2002 <i>RB</i> ₁₈₇	20.834	0.64	2	W
231631	2009 <i>TV</i> ₄₁		1.03		I	234848	2002 <i>RN</i> ₁₉₃	5.435	0.57	2	W
231664	2009 <i>YL</i> ₆	8.332	0.59	2	W	234855	2002 <i>RZ</i> ₂₂₈	12.262	0.67	2	W
231668	1981 <i>EK</i> ₂₈	9.897	0.69	2	W	234886	2002 <i>TL</i> ₈₈	123.721	0.67	2	W
231717	1999 <i>CK</i> ₉	4.263	0.47-0.55	2	W	234934	2002 <i>UG</i> ₂₈	5.96	0.27	2	W
231741	1999 <i>RX</i> ₁₄₁	5.0	0.55	2	W	234938	2002 <i>VC</i> ₁₀	2.657	0.23	2	W
231752	1999 <i>TF</i> ₁₇₃	8.493	0.61	2	W	235086	2003 <i>HW</i> ₁₁	6.385	0.80	3-	
231831	2000 <i>OR</i> ₁₀	13.322	0.16	2	W	235132	2003 <i>QP</i> ₅₇	4.780	0.45-0.50	2	W
231865	2000 <i>SY</i> ₃₁₈	3.02	0.34	2	W	235263	2003 <i>SN</i> ₄₂₈	5.67	0.65-0.97	2+	W
231893	2000 <i>WS</i> ₇₃	3.949	0.50	2	W	235313	2003 <i>UJ</i> ₁₃₄	5.956	0.52-0.54	2	W
231927	2001 <i>DU</i> ₃₀	24.4	0.90	2	W	235323	2003 <i>UU</i> ₁₈₁	4.92	0.77	2	W
231958	2001 <i>PF</i> ₂₈	4.5	0.48-0.65	2	W	235421	2003 <i>YW</i> ₃₇	5.199	0.30	2	W
232008	2001 <i>SC</i> ₁₄₀	39.442	0.65	2	W	235426	2003 <i>YH</i> ₇₀	4.021	0.64	2	W
232067	2001 <i>UR</i> ₂₂₀	4.2	0.29		N	235520	2004 <i>CC</i> ₃	6.439	0.64	2	W
232164	2002 <i>CT</i> ₂₉₉	67.615	0.84	2	W	235615	2004 <i>PS</i> ₁₀₄	4.10	0.18	2	W
232195	2002 <i>GG</i> ₂	45.133	0.87	2	W	235661	2004 <i>RB</i> ₂₂₁	5.16	0.56-0.64	2	W
232206	2002 <i>GN</i> ₁₀₇	11.4	0.45-0.80	2	W	235714	2004 <i>TD</i> ₁₁₂	18.648	0.65	2	W
232241	2002 <i>OA</i> ₇	14.746	0.34	2	W	235756	2004 <i>VC</i>	7.18	0.12	2+	W
232247	2002 <i>PJ</i> ₁₉	4.40	0.94	1+	W	235773	2004 <i>VD</i> ₂₄	6.784	0.27	2	W
232257	2002 <i>PT</i> ₁₃₅	4.802	0.59	2	W	235801	2004 <i>XT</i> ₂₅				HNW
232278	2002 <i>RQ</i> ₂₀	7.983	0.33	2	W	235841	2004 <i>YC</i> ₁₂	9.32	0.62	2	W
232321	2002 <i>TM</i> ₁₁₃	6.175	0.50	2	W	235854	2005 <i>AQ</i> ₂₉				HNW
232336	2002 <i>TV</i> ₂₈₉	5.951	0.78	2	W	235882	2005 <i>CM</i> ₅	8.662	0.55-0.58	2	W
232357	2002 <i>XT</i> ₁₆	15.345	0.18	2	W	235885	2005 <i>CK</i> ₁₀	6.53	0.79	2	W
232368*	2003 <i>AZ</i> ₂	31.1	0.96	2+	T?	235901	2005 <i>CV</i> ₈₀	8.347	0.68	2	W
232438	2003 <i>FH</i> ₇₁	>24.	0.25			236071	2005 <i>JU</i> ₁₀₂	7.11	0.57	2	W
232486	2003 <i>NN</i>	3.86	0.62	2	W	236241	2005 <i>YA</i> ₅₂				HNW
232539	2003 <i>SG</i> ₁₀₃				HNW	236432	2006 <i>DF</i> ₁₃₂	3.27	0.46	2	W
232574	2003 <i>SH</i> ₃₂₄				HNW	236472	2006 <i>FS</i> ₁₄	6.04	0.54	2	W
232588	2003 <i>TL</i> ₅₁	4.461	0.31	2	W	236473	2006 <i>FO</i> ₁₈	12.63	0.73	2	W
232674	2003 <i>YF</i> ₄₅	8.50	0.53-0.71	2+	W	236497	2006 <i>GU</i> ₂₀	16.685	0.65	2	W
232692	2004 <i>AM</i> ₆	94.251	0.74	2	W	236665	2006 <i>MJ</i> ₁	8.3	0.40	2+	W
232775	2004 <i>PA</i> ₇₅	2.31	0.39	2	W	236672	2006 <i>PK</i> ₃₅	11.85	0.60	2	W
232783	2004 <i>QF</i> ₃	8.886	0.27	2	W	236781	2007 <i>PG</i> ₁₅	6.479	0.81	2	W
232802	2004 <i>RV</i> ₁₉₉	27.873	0.35	2	W	236789	2007 <i>PY</i> ₃₅	5.280	0.71	2	W
232827	2004 <i>SX</i> ₅₁	6.755	0.24	2	W	236796	2007 <i>PC</i> ₄₄	4.328	0.41	2	W
232947	2005 <i>EP</i> ₅	3.968	0.30	2	W	237039	2008 <i>SM</i> ₁₀₆				HNW
233023	2005 <i>ER</i> ₂₆₄	6.78	0.56	1	DAW	237072	2008 <i>SR</i> ₂₅₁				HNW
233051	2005 <i>GP</i> ₇₇	6.976	0.61	2	W	237097	2008 <i>TE</i> ₄₅	4.514	0.62	2	W
233071	2005 <i>JY</i> ₇₀	10.748	0.35	2	W	237100	2008 <i>TE</i> ₇₃	7.842	0.88	2	W
233120	2005 <i>TN</i> ₂₄	53.547	0.69	2	W	237114	2008 <i>TY</i> ₁₅₇	15.625	0.66	2	W
233123*	2005 <i>TB</i> ₆₀	33.0	0.90	2+	W	237154	2008 <i>UR</i> ₉₆	4.552	0.47	2	W
233175	2005 <i>VJ</i> ₇₈	5.253	0.47	2	W	237181	2008 <i>UX</i> ₁₈₄	4.44	0.51	2	W
233214	2005 <i>XT</i> ₁₁₀	4.19	0.59	2	W	237266	2008 <i>WX</i> ₉₆	3.71	0.54	2	W
233229	2005 <i>YD</i> ₃₉	8.671	0.74-0.82	2	W	237286	2008 <i>XB</i> ₂₁				HNW
233350	2006 <i>DT</i> ₆₁	5.324	0.66-0.71	2	W	237306	2008 <i>YH</i> ₈₉				HNW
233351	2006 <i>DU</i> ₆₁	2.847	0.40	2	W	237332	2009 <i>UN</i> ₈₇	6.111	0.44	2	W
233366	2006 <i>DH</i> ₁₃₈				HNW	237344	2010 <i>AY</i> ₂₃	5.623	0.27	2	W
233378	2006 <i>DP</i> ₁₉₉	5.549	0.54-0.58	2	W	237434	1999 <i>PH</i> ₃	35.429	0.10	1	W
233401	2006 <i>FF</i> ₃₉	17.	0.55	2	W	237442	1999 <i>TA</i> ₁₀	14.	0.1		N
233482	2006 <i>SD</i> ₁₄₇	8.133	1.00	2	W	237510	2000 <i>RM</i> ₆₉	7.521	0.68	2	W
233486	2006 <i>UF</i> ₁	12.63	0.50	2	W	237709	2001 <i>TH</i> ₅₂	5.00	0.29	2-	W
233557	2007 <i>NA</i> ₅	5.61	0.48	2	W	237777	2002 <i>AH</i> ₁₁₄	10.79	0.87	2	W
233572	2007 <i>PR</i> ₃₁	3.81	0.58	1+	W	237805*	2002 <i>CF</i> ₂₆	3.7756	0.99	3	
233576	2007 <i>QL</i>	8.703	0.31	2	W	237921	2002 <i>PF</i> ₁₇₃	3.792	0.40-0.52	2	W
233760	2008 <i>TT</i> ₅₅	2.79	0.30	2	W	238033	2002 <i>WA</i> ₂₇	4.66	0.90	1+	W
233814	2008 <i>UF</i> ₁₇₀				HNW	238190	2003 <i>SU</i> ₂₉₃	25.457	0.99	2	W
233833	2008 <i>UY</i> ₂₆₆				HNW	238261	2003 <i>WP</i> ₉	6.761	0.50-0.61	2	W
233852	2008 <i>UC</i> ₃₆₄	30.590	0.43	2	W	238321*	2003 <i>YP</i> ₁₄₀	25.6	0.21	2	W
233874	2008 <i>WL</i> ₅₉	8.14	0.85	2	W	238349	2004 <i>BG</i> ₁₁₁	5.	0.13	2-	W
233904	2009 <i>BA</i> ₁₂₈	2.83	0.28-0.40	2	W	238509	2001 <i>TH</i> ₅₂	73.547	0.74	2	W
233929	2009 <i>UN</i> ₈₃	4.85	0.73	2	W	238535	2004 <i>TQ</i> ₃₃₄	6.53	0.87	2	W
233939	2009 <i>VR</i> ₅₈		1.1		I	238543	2004 <i>VK</i> ₃₆	3.846	0.64	2	W
233963	2010 <i>AP</i> ₃₁	5.25	0.25	2	W	238584	2004 <i>XR</i> ₁₈₁	8.085	0.85	2	W
234145	2000 <i>EW</i> ₇₀	<33.		2	RT0	238636	2005 <i>EV</i> ₅₅	8.73	0.76	2	W
234193	2000 <i>QK</i> ₁₄₀	4.182	0.38	2	W	238650	2005 <i>EF</i> ₄₄	9.06	0.54	2	W
234254	2000 <i>UE</i> ₁₁	4.924	0.68	2	W	238671	2005 <i>EM</i> ₁₇₉				HNW
234287	2000 <i>XM</i> ₁₁	7.024	0.24	2	W	238805	2005 <i>LZ</i> ₅₃				HNW
234295	2000 <i>YK</i> ₄₅	3.792	0.34	2	W	238850	2005 <i>UL</i> ₅₃₀	5.33	1.10	2	W

MINOR PLANET LIGHTCURVE PARAMETERS

Planet	Period	Variation	Note	Planet	Period	Variation	Note						
238913	2006	AE ₉	4.93	0.16	2-	W	243665	1999	VZ ₈₀	6.831	0.74	2	W
239035	2006	DZ ₁₄₅	3.21	0.45	2	W	243686	1999	XD ₁₃₈	15.552	0.40	2	W
239036	2006	DS ₁₄₇	4.21	0.53	2	W	243743	2000	QL ₆₂	3.489	0.10	1	W
239101	2006	HN ₅₃	10.21	0.79	2	W	243766	2000	BS ₂₆	6.339	0.76	2	W
239107	2006	HH ₅₈	3.21	0.75	1+	W	243934	2001	OQ ₁₀₆	4.875	0.61	2	W
239152	2006	KD ₉	4.23	0.63	2	W	244075	2001	TQ ₂₀₀	6.807	0.59	2	W
239163	2006	KZ ₃₀	14.772	0.32	2	W	244416	2002	QH	3.901	0.37	2	W
239303	2007	PB ₄₃	292.050	0.92	2	W	244527	2002	TT ₂₃₈	11.179	0.73	2	W
239392	2007	TG ₂₀	5.75	0.55	2	W	244537	2002	UE ₂₉	18.709	0.43	2	W
239402	2007	TU ₄₁	7.509	0.55	2	W	244631	2003	BA ₇₁	48.972	0.08	1	W
239440	2007	TR ₁₇₁	6.277	0.61-0.69	2	W	244805	2003	SQ ₂₇₃	9.166	0.59	2	W
239668	2008	XU ₅₃	3.78	0.65	2	W	244972	2004	BX ₄₀				HNW
239673	2008	YV ₂₂	4.68	0.61	2	W	244978	2004	BZ ₇₇	6.44	0.57	3-	W
239889	2000	RF	8.521	0.83	2	W	245003	2004	CR ₄₄				HNW
239987	2001	RF ₁₃₈	4.507	0.60	2	W	245355	2005	EL ₂₆₃	3.98	0.73	2	W
240098	2002	CP ₉₆	4.53	0.73	2	W	245408	2005	JO	4.82	0.43	2	W
240161	2002	PU ₂₅				HNW	245568*	2005	UR ₁₅₀	7.602	0.76	3-	W
240172	2002	PC ₁₈₀				HNW	245614	2005	WR ₈₁	34.460	0.49	2	W
240238	2002	TB ₂₆₈	8.467	0.68	2	W	245672	2006	BP ₂₄	7.886	0.58	2	W
240419	2003	WW	11.335	0.38	2	W	245959	2006	SY ₅₅	3.223	0.38	2	W
240468	2004	BV ₃₀	6.20	0.65	1	DAW	246030	2006	UB ₇₅	7.51	0.1	1	W
240486	2004	BU ₁₅₆	3.53	0.40	2	W	246045	2006	UU ₁₉₈	7.514	0.88	2	W
240558	2004	RU ₂₅₀	5.923	0.60-0.70	2	W	246058	2006	VT ₃₁	8.296	0.08	1	W
240732	2005	JK ₂₈				HNW	246550	2008	UR ₄₇		1.04		I
240765	2005	MX ₁₂	9.06	0.58	2	W	246573	2008	TN ₁₁₂	6.592	0.53	2	W
241046	2006	RD ₇₆				HNW	246647	2008	YO ₁₉				HNW
241050	2006	RU ₁₀₄	3.743	0.16	1	W	246696	2009	AN ₂₅	7.06	0.72	2	W
241076	2006	TG ₆₂	44.571	0.60	2	W	246875*	1994	WR ₆	6.91	0.33		W
241092	2006	VR ₂	8.665	0.65	2	W	246917	1998	UR ₁₈	7.834	0.32	2	W
241102	2007	HO	8.727	0.50	2	W	246924	1999	AJ ₁	58.865	0.47	2	W
241158	2007	RR ₈₁	9.7	0.60	3-	W	246970	1999	TX ₁₃₈	3.36	0.23	2+	W
241215	2007	TA ₆₃				HNW	246979	1999	TA ₂₃₀	4.474	0.30	2	W
241216	2007	TM ₆₃	9.850	0.50-0.51	2	W	247028	2000	AZ ₇₀	3.627	0.15	2	W
241221	2007	TO ₈₀	5.45	0.67	2	W	247081	2000	SS ₇₂	4.73	0.40	2	W
241339	2007	VL ₂₆₉	7.7	0.85	2+	W	247111	2000	TZ ₆₃	43.014	0.75	2	W
241477	2009	BH ₃₆				HNW	247115	2000	UY ₄₃	26.519	0.69	2	W
241528		Tubman		1.3		I	247147	2000	XX ₁₂	6.584	0.55	2	W
241596	1998	XM ₂	8.75	0.40	3-	W	247201	2001	OQ ₁₀₉	3.620	0.53	2	W
241603	1999	RC ₁₁₀	3.579	0.37	2	W	247207	2001	PO ₂₇	3.697	0.06	1	W
241607	1999	RJ ₂₀₁	5.783	0.44-0.51	2	W	247229	2001	QB ₁₉₅	4.386	0.48	2	W
241618	1999	TY ₂₇₁	6.517	0.73	2	W	247259*	2001	RT ₉₈	6.69	0.75	2+	W
241620	1999	UQ ₂₆	5.998	0.39	2	W	247283	2001	SC ₁₈₇	120.446	0.93	2	W
241623	1999	VT ₁₉	8.417	0.68	2	W	247313	2001	TP ₁₆₈	91.623	0.10	1	W
241648	2000	EN ₁₁	41.371	0.98	2	W	247388	2001	YA ₁₂₂	183.534	0.62	2	W
241804	2001	QW ₂₈₂	>12.	>0.2	2-	W	247405	2002	CU ₁		1.2		I
241827	2001	SR ₂₀₉	7.56	0.75	2	W	247471	2002	JF ₅₁	10.652	0.47	2	W
241908	2001	YH ₁₄₂	4.436	0.12	1	W	247483	2002	LE ₁₉	5.288	0.77	2	W
241913	2002	AP ₄₇	8.42	0.39	2	W	247504	2002	PN ₇₀	6.958	0.63	2	W
241994	2002	NK ₄₂		1.1		I	247529	2002	QE ₁₂₁				HNW
242070	2002	TP ₁₃₀	3.64	0.30	2	W	247574	2002	TA ₁₈	8.422	0.77	2	W
242072	2002	TM ₁₃₆	9.062	0.31	2	W	247634	2002	VM ₁₂	21.703	0.42	2	W
242076	2002	TG ₁₇₉	12.337	0.40	2	W	247636	2002	VV ₃₉	29.785	0.59	2	W
242091	2002	TW ₂₉₈	6.981	0.67	2	W	247651	2002	WK ₁₅	111.576	0.61	2	W
242135	2003	AQ ₄	3.309	0.09	1	W	247658	2002	XN ₆₃	2.65	0.28	2	W
242164	2003	FF ₉₈	5.237	0.60	2	W	247795	2003	SX ₅₄	22.126	0.33	2	W
242171	2003	GG ₅₁	6.785	0.49		NA	247816	2003	SQ ₁₄₄	2.559	0.07	1	W
242191	2003	NZ ₆	13.531	1.19-1.5	3	TO	247827	2003	SN ₁₉₈	2.042	0.08	1	W
242338	2003	YS ₁₁₄				HNW	247929	2003	WZ ₁₃₂	3.661	0.61	2	W
242365	2004	CM ₂₇	9.941	0.45-0.52	2	W	247963	2003	YY ₁₃₆	3.837	0.35	2	W
242366	2004	CP ₂₉	4.07	0.45	2	W	247969	2004	AG ₁₇		1.03		I
242395	2004	FU ₄₃	7.68	0.84	2	W	248071	2004	PA ₄₅	14.122	0.69	2	W
242446	2004	PK ₉₆	5.119	0.47	2	W	248073	2004	PT ₄₈	11.667	0.52	2	W
242599	2005	JG ₄₅	8.42	1.0	1	W	248083	2004	QU ₂₄	4.66	0.12	2-	W
242602	2005	JA ₅₈	8.600	1.00	3-	HW	248098	2004	RG ₈₅	167.804	0.61	2	W
242708*	2005	UK ₁	63.8	0.95	2-	W	248105	2004	RT ₁₀₂	41.868	0.35	2	W
242748	2005	VT ₆₈				HNW	248138	2004	SA ₅₃	6.344	0.71	2	W
242757	2005	WX ₇₀	4.384	0.32	2	W	248140	2004	SJ ₆₂	18.968	0.57	2	W
242812	2006	BN ₁₄₉	6.144	0.55	2	W	248220	2005	EK ₁₇₇	8.8	0.19	1	W
242846	2006	EE ₃₉	3.50	0.29	2	W	248227	2005	ES ₂₀₇	5.88	0.37-0.39	2	W
242897	2006	KH ₇₃	30.97	0.64	2	W	248424	2005	SW ₂₂₀	38.679	0.37	2	W
242916	2006	OS ₂	4.717	0.10	1	W	248503	2005	UN ₄₈₀	142.740	0.90	2	W
242944	2006	RP ₃₂	94.	0.2	1	W	248544	2005	XJ ₂₄	27.098	0.63	2	W
242995	2006	TS ₈	10.43	0.33	2	W	248705	2006	MY ₁₄	23.236	0.08	1	W
243147	2007	TX ₁₈	13.538	0.42	2	W	248801	2006	SJ ₁₂₂	4.67	0.34	1+	W
243200	2007	TC ₄₄₇	6.36	0.72	2	W	248807	2006	SC ₁₄₈	3.254	0.12	2-	W
243292	2008	DS ₇₀				HNW	248818	2006	SZ ₂₁₇	3.2474	0.09-0.14	2	W
243369	2008	WC ₁₀₂	7.120	0.89	2	W	248896	2006	UE ₂₇₀	8.50	0.55	2	W
243412	2009	BT ₉₈				HNW	248964	2006	YA ₁₆	10.818	0.65	2	W
243566	1995	SA	14.37	0.17-0.21	2	W	248981	2007	EB ₁₄	6.218	0.36	2	W
243633	1999	RL ₂₃₉	5.034	0.56	2	W	249103	2007	VO ₂₄₄	4.218	0.29	2	W

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Planet				Planet			
Planet	Period	Variation	Note	Planet	Period	Variation	Note
249177	2008	CT ₆₃	2 W	252444	2001	TB ₁₉₂	2 W
249249*	2008	RA ₁₀₆	0.9 N	252461	2001	TS ₂₃₃	2 W
249387	2009	BN ₇₆	4.742 2 W	252474	2001	UH ₂₃	2 W
249416	2009	DN ₆₉	0.9 I	252489	2001	US ₈₄	2 W
249460	2009	HZ ₈₄	3.50 3- W	252535	2001	VV ₃₁	2 W
249590	1996	UG ₂	4.45 2	252541	2001	VE ₆₀	2 W
249595	1997	GH ₂₈	19.696 3	252591	2001	XO ₁	2 1+
249606	1999	RV ₉₃	15.687 2 W	252600	2001	XA ₄₄	22.58 1 DAW
249610	1999	RJ ₁₇₆	3.587 1 W	252602	2001	XD ₄₈	7.01 2 W
249657	1999	UF ₄₅	4.871 2 W	252636	2001	XA ₂₂₀	12.197 2 W
249684	1999	XN ₂₅₆	11.810 2 W	252656	2001	YD ₁₁₀	32.872 2 W
249699	2000	EM ₁₄₃	7.507 2 W	252660	2001	YA ₁₂₈	23.394 2 W
249738*	2000	SB ₁₅₉	41.2 1+	252702	2002	CB ₉₁	>48. >0.6 2
249755	2000	SJ ₃₅₀	16.498 2 W	252724	2002	CN ₂₂₈	7.01 2
249838	2001	OR ₁₀₄	670.775 2 W	252793	2002	FV ₅	61.2 2 B?
249849	2001	QA ₁₁	4.751 2 W	252965	2002	PA ₁₃₉	31.408 2 W
249857	2001	QL ₁₀₄	29.309 2 W	252966	2002	PJ ₁₃₉	12.397 2 W
249866	2001	QM ₁₆₅	3.798 2 W	252968	2002	PM ₁₅₅	3.281 2 W
249884	2001	QV ₂₈₆	4.673 2 W	253074	2002	TK ₁₃₉	6.142 3 W
249889	2001	RS ₄₃	21.030 2 W	253106	2002	UR ₃	180. 0.05-0.36 2 T?
249909	2001	SC ₁₅₂	4.663 2 W	253123	2002	VG ₉	5.653 2 W
249958	2001	UE ₂₆	6.816 2 W	253127	2002	VA ₁₄	6.750 2 W
250071	2002	EO ₈₉	5.22 2 W	253134	2002	VC ₃₀	55.079 2 W
250112	2002	KY ₁₄	3.56 2- 1A	253198	2002	XO ₆₀	114.457 2 W
250139	2002	RK ₆₈	8.445 2 W	253220	2002	YC ₂	7.946 2 W
250171	2002	TH ₁₃₃	6.302 2 W	253228	2002	YZ ₁₆	78.837 2 W
250203	2002	UN ₆₅	4.466 2- W	253348	2003	FP ₇₁	37. 2-
250235	2002	XQ ₇₃	39.783 2 W	253384	2003	KQ ₃	1.47 1 W
250365	2003	SJ ₃₀₇	5.35 2- W	253424	2003	QR ₄₉	5.157 2 W
250458	2004	BO ₄₁	16.19 2	253475	2003	SJ ₅₅	2.181 2 W
250484	2004	ED ₃₁	17.398 2 W	253493	2003	SG ₉₅	5.878 2 AW
250523	2004	PV ₃₃	10.762 2 W	253513	2003	SE ₁₅₂	5.718 2 W
250531	2004	PG ₉₂	5.139 1 W	253516	2003	SH ₁₆₀	9.969 2 W
250567	2004	TH ₇₈	9.252 2 W	253526	2003	SP ₁₈₈	8.783 2 W
250618	2005	GR ₃₀	66.094 2 W	253531	2003	SQ ₁₉₈	10.158 2 W
250629	2005	GX ₁₆₉	45. 1 W	253539	2003	SX ₂₂₃	56.998 2 W
250631	2005	HE ₅	8.106 2 W	253679	2003	UY ₂₂₃	4.519 2 W
250637	2005	JL ₄₇	6.473 2 W	253725	2003	WC ₉	6.497 2 W
250648	2005	JF ₁₄₈	5.95 2 HW	253734	2003	WF ₃₀	6.182 2 W
250685	2005	QC ₄₀	3.611 2 W	253827	2003	YQ ₇₄	43.856 1 W
250719	2005	SN ₂₁	6.8 1+	253841	2003	YG ₁₁₈	2.27 0.11-0.11 2-
250722	2005	SN ₂₉	7.301 0.44-0.53 2 W	253879	2004	BO ₃₁	4.553 2 W
250806	2005	UG ₃₀	8.938 2 W	253904	2004	BL ₁₄₄	5.234 2 W
250815	2005	UB ₅₈	10.249 2 W	254070	2004	HK ₄₂	11.84 0.22 1+
250830	2005	UZ ₉₀	3.902 2 W	254107	2004	LA ₂₂	42.847 2 W
250898	2005	VL ₈₂	6.252 2 W	254168	2004	QM ₁₀	6.702 2 W
250910	2005	WC ₄	9.023 2 W	254214	2004	RU ₉₁	78.974 2 W
250929	2005	WK ₁₁₇	14.630 2 W	254245	2004	RY ₁₄₇	10.978 2 W
250968	2006	GM ₂₆	10.687 2 W	254337	2004	SV ₄₂	6.272 2 W
251003	2006	PB	18.666 2 W	254396	2004	TB ₂₃₀	3.202 2 W
251051	2006	RZ ₅₉	2.920 2- W	254442	2005	AZ ₆₁	4.861 2 W
251064	2006	SK ₂₃	7.790 1 W	254451	2005	CL ₁	54.058 2 W
251079	2006	SC ₈₁	80. 1+	254486	2005	EO ₂₆	3.910 2 W
251228	2006	UH ₂₄₁	15.509 2 W	254526	2005	EK ₁₁₉	2.21 2 W
251268	2006	WL ₁₅	6.456 2 W	254637	2005	JX ₉₃	19.714 0.17 2 W
251271	2006	WX ₃₂	14.022 2 W	254679	2005	LU ₅₀	71. 0.8 2
251313	2006	YY ₃₈	12.159 2 W	254687	2005	MS ₁₆	5.267 0.38 2 W
251338	2007	EM ₁₈₁	1.1 I	254775	2005	QZ ₄₁	6.078 0.59 2 W
251346*	2007	SJ	2.718 0.10-0.37 3	254776	2005	QD ₄₃	10.576 0.51 2 W
251492	2008	ET ₃₆	6.419 0.28 2 W	255093	2005	UW ₄₈	3.158 0.41 2 W
251525	2008	GX ₆₀	HNW	255094	2005	UM ₄₉	8.185 0.45 2 W
251695	1995	WC ₃₃	5.71 2- W	255129	2005	UC ₁₃₀	6.4083 0.20 2 NA
251696	1995	YU ₆	5.624 2 W	255214	2005	UQ ₃₅₄	8.907 0.87 2 W
251718	1997	SV ₁₈	4.443 2 W	255376	2005	VV ₁₁₇	9.130 0.79 2 W
251738	1998	QU ₈₇	49.856 2 W	255487	2006	AT ₄	4.116 0.47 2 W
251795	1999	TU ₂	4.904 2 W	255623	2006	PV ₂₅	59.226 0.52 2 W
251932	1999	VW ₂₁₀	8.904 2 W	255649	2006	QO ₁₉	6.04 0.53 2 W
252071	2000	SM ₂₀₈	6.221 2 W	255668	2006	QC ₃₆	7.634 0.51 2 W
252079	2000	SY ₃₀₆	376.026 2 W	255746	2006	RC ₆	9.96 0.20 1 W
252080	2000	SF ₃₃₈	2.74 3- W	255755	2006	RX ₂₇	5.844 0.57 2 W
252091	2000	UP ₃₀	5.44 0.22-0.28 2	255761	2006	RM ₄₂	9.25 0.22 1 W
252125	2000	WK ₁₄₇	69.381 2 W	255767	2006	RB ₅₇	19.16 0.20 1 W
252216	2001	KH	6.425 2 W	255787	2006	RF ₁₀₀	4.658 0.37 2 W
252309	2001	RC ₉₀	10.064 2 W	255828	2006	SC ₈₆	1.73 0.15 1+
252337	2001	SN ₁₁₄	5.747 0.26 2 W	256033	2006	UJ ₄₇	0.64190 0.08 1 W
252352	2001	SM ₁₆₂	19.032 2 W	256085	2006	UK ₂₀₇	3.716 0.04 1 W
252364	2001	SX ₂₃₀	HNW	256114	2006	UD ₂₉₁	7.059 0.67 2 W
252370	2001	SD ₂₅₆	2.77 2 W	256138	2006	VQ ₁₅	6.15 0.62 2 W
252383	2001	SX ₃₂₄	7.243 2 W	256150	2006	VE ₃₄	6.578 0.77 2 W
252427	2001	TR ₁₃₇	3.339 2 W	256165	2006	VW ₅₄	4.10 1.11 2 1+

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Planet				Planet			
Planet	Period	Variation	Note	Planet	Period	Variation	Note
256207	2006	VD ₁₀₃		263754	2008	JS ₃₄	
256248	2006	WD ₂₇		263793	2008	QE ₃₇	
256284	2006	WJ ₁₁₅		263809	2008	RU ₅₅	
256286	2006	WC ₁₁₆		263975	2009	KY ₂	
256340*	2006	XP ₃₀		263976	2009	KD ₅	
256357	2006	XH ₅₇		264068	2009	SQ ₁₄₈	
256448	2007	CR ₄₁		264157	2009	YM	
256635	2007	VA ₂₈₂		264331	1999	UG ₄₇	
256700	2008	AG ₃		264414	2000	OW ₂	
256787	2008	CK ₂₃		264421	2000	QF ₂₀₄	
257003	2008	ED ₁₅₁		264549	2001	SP ₂₀₄	
257168	2008	HA ₆₉		264566	2001	TG ₃₂	
257183	2008	JP ₃₉		264700	2002	AB ₁₂₀	
257325	2009	HN ₉₉		264835	2002	QD ₃₆	
257370	2009	OR ₂₄		264853	2002	RA ₅₅	
257404	2009	SF ₃₁₅		264901	2002	TY ₈₆	
257405	2009	SG ₃₃₀		264935	2002	VW ₄₀	
257463	1992	WW ₆		264975	2003	BF ₃₉	
257555	1998	SM ₁₀₄		264986	2003	CK ₁₁	
257556	1998	SF ₁₇₄		265039	2003	PM ₁	
257631	1999	TK ₁₇₅		265125	2003	UT ₁₃₄	
257689	1999	VQ ₁₉₇		265164	2003	WD ₁₃₄	
257713	1999	XL ₁₃₈		265170	2003	WJ ₁₄₇	
257744	2000	AD ₂₀₅		265176	2003	YV ₈	
257800	2000	EO ₃₅		265178	2003	YZ ₁₈	
257803	2000	EC ₇₅		265196*	2004	BW ₅₈	
257838*	2000	QJ ₆₆		265325	2004	NS ₂₄	
258039	2001	KF ₄₁		265542	2005	OM ₂	
258207	2001	SJ ₃₃₂		265543	2005	OM ₃	
258309	2001	UM ₁₇₁		265550	2005	OL ₁₉	
258379	2001	XR ₃₄		265640	2005	TF ₂₅	
258439	2001	XF ₂₃₁		265652	2005	TK ₁₂₁	
258476	2002	AN ₁₃		265962	2006	CG	
258597	2002	CJ ₂₀₄		266023	2006	FG ₃₅	
258643	2002	EL ₄₀		266199	2006	WH ₂	
258798	2002	LX ₈		266229	2006	XC ₈	
258817	2002	NY ₅₇		266250	2006	YO ₁	
259083	2002	VS ₃₁		266312	2007	CF ₃₇	
259092	2002	VX ₁₀₂		266398	2007	EC ₁₈₃	
259110	2002	WT ₁₈		266417	2007	FX ₄₃	
259120	2002	XM ₂₆		266433	2007	GM ₇₅	
259124	2002	XW ₃₁		266516	2008	EU ₁₃₇	
259426	2003	SK		266553	2008	GX ₃₂	
259485	2003	SS ₂₁₅		266571	2008	GW ₁₂₉	
259488	2003	SK ₂₂₄		266607	2008	LV ₁₅	
259489	2003	ST ₂₂₇		266652	2008	TA ₃₀	
259502	2003	SL ₂₈₄		266780	2009	SB ₂₁₈	
259709	2003	YP ₄₇		266796	2009	SW ₃₁₃	
259753	2004	AY		266931	2010	JZ ₁₁₉	
259774	2004	BU ₂₂		266992	2010	XR ₄₃	
259791	2004	BD ₅₉		267000	2010	P-L	
259805	2004	BW ₉₅		267011	1994	PQ ₂₆	
259838	2004	CC ₄₂		267024	1995	XK ₃	
259868	2004	CM ₁₁₄		267047	1998	RK ₄₀	
259969	2004	FQ ₂₈		267129	2000	EU ₁₃	
260048	2004	GB ₈₂		267190	2000	QO ₂₀₀	
260141	2004	QT ₂₄		267218	2000	WS ₁₀₃	
260564	2005	EH ₂₂₀		267223	2001	DQ ₈	
260605	2005	GS ₁₅		267256	2001	QR ₄₄	
260618	2005	GU ₄₅		267317	2001	TF ₂₁₀	
260691	2005	JP ₉₈		267320	2001	TV ₂₆₀	
260701	2005	JV ₁₂₀		267337	2001	VK ₅	
260873	2005	QV ₁₁₂		267356	2001	XW ₅	
261299	2005	UK ₁₈₁		267494	2002	JB ₉	
261345	2005	UB ₂₇₅		267605	2002	RG ₉₂	
261654	2005	YH ₉₉		267640	2002	SY ₄₁	
261987	2006	QR ₂₉		267677	2002	TG ₃₈₅	
261996	2006	QB ₄₃		267681	2002	UV ₁₈	
262064	2006	RD ₄₂		267729	2003	FC ₅	
262104	2006	RD ₁₀₁		267884	2003	YH ₆₉	
262343	2006	TY ₅₄		267951	2004	EA ₈₄	
262418	Samofalov			267981	2004	GF ₄	
262476	2006	UM ₁₇₅		267987	2004	GU ₅₆	
262623	2006	WY ₂		268010	2004	KH ₄	
262903	2007	CC ₄₆		268015	2004	NR ₇	
263198	2007	YX ₆₀		268021	2004	NU ₂₄	
263336	2008	CC ₈₃		268023	2004	NA ₂₈	
263394	2008	DY ₆		268265	2005	OF ₅	
263626	2008	GS ₄₂		268611	2006	CY ₃₀	
263670	2008	GQ ₁₁₄		268623	2006	DT ₂₂	

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Planet	Period	Variation	Note	Planet	Period	Variation	Note
268867 2006 YL ₃₈			HNW	273019 2006 DE ₉₁	3.14	0.50	2 W
268896 2007 BS ₄₁			HNW	273168 2006 HH ₆₄			HNW
268902 2007 BH ₅₈			HNW	273270 2006 MZ ₅	17.750	0.59	2 W
268906 2007 CR ₃			HNW	273283 2006 RL ₁₈	8.97	0.49	2 W
268924 2007 CO ₅₁			HNW	273303 2006 SL ₁₄₁			HNW
268950 2007 DJ ₅₁	5.13	0.75	2- W	273498 2007 AX ₁₈	9.100	0.36	2 W
269125 2007 PF ₃₇	4.895	0.68	2 W	273551 2007 BY ₆₁			HNW
269189 2008 GZ ₅₀	4.71	0.62	2 W	273692 2007 EY ₃₂			HNW
269374 2009 AF ₁₇	33.961	0.35	2 W	273834 2007 GO ₂₅	6.483	0.72	2 W
269433 2009 SL ₁₆₃			HNW	273848 2007 GO ₄₄			HNW
269505 2009 UA ₈₉	3.16	0.66	1 W	273976 2007 LN ₁₃	5.754	0.17	2 W
269633 2011 AJ ₄₄	15.744	0.61	2 W	274022 2007 RZ ₁₈			HNW
269640 2011 AM ₇₄	2.727	0.27	2 W	274025 2007 RM ₂₂	4.258	0.28	2 W
269656 1995 CD ₅			HNW	274026 2007 RT ₂₉	164.417	0.51	2 W
269719 1998 QH ₅₆	5.112	0.39	2 W	274138 2008 FU ₆	2.852	0.07-0.07	2 W
269751 1999 AC ₃₂	8.698	0.36	2 W	274198 2008 HY ₂₂	6.364	0.56-0.70	2 W
269754 1999 RW ₁₀₄	10.256	0.32	2 W	274231 2008 KJ ₄₀	4.68	0.87	2 W
269763 1999 TD ₃₂	3.857	0.57	2 W	274444 2008 SR ₄₇	12.00	0.61	1 DAW
269858 2000 EB ₄			HNW	274659 2008 TV ₁₅₇			W
269915 2000 JA ₄₂			HNW	274707 2008 UG ₁₀₀	6.082	0.76	2 W
270033 2001 KN ₃₀	3.034	0.77	2 W	274881 2009 SE ₂₅	4.55	0.37	2 W
270064 2001 OJ ₉₀	6.08	0.73	2- W	274959 2009 SS ₃₀₄			HNW
270140 2001 SV ₅	6.683	0.75	2 W	275073 2009 UX ₁₃₉	12.859	0.65	2 W
270158 2001 SP ₁₃₇	37.896	0.61	2 W	275173 2009 WX ₃₃			HNW
270185 2001 SP ₂₇₇	12.240	0.35	2 W	275255 2009 XB ₂₅	4.993	0.99	2 W
270213 2001 TN ₁₃₉	8.617	0.62-0.71	2 W	275300 2010 OH ₁₁₈	134.452	0.80	2 W
270247 2001 UG ₂₅	7.914	0.55	2 W	275538 1998 RA ₆₃	8.652	0.37	2 W
270248 2001 UJ ₂₅	5.850	0.54	2 W	275551 1999 ED ₁₀	6.651	0.54-0.58	2 W
270253 2001 UE ₃₆	52.738	0.51	2 W	275557 1999 RE ₃₀	15.215	0.41	2 W
270325 2001 XC ₁₀₄	154.359	0.89	2 W	275611 1999 XX ₂₆₂	15.112	0.14-0.16	2 W
270370 2001 YF ₁₃₉	3.43	0.26	2 W	275672 2000 QQ ₁₃₆			HNW
270426 2002 CM ₇₁	5.39	1.06	2 W	275677 2000 RS ₁₁	4.444	0.70-1.37	3 W
270626 2002 PA ₃₄	27.068	0.50	2 W	275681 2000 SQ ₃₃	9.007	0.74-0.76	2 W
270645 2002 PR ₁₁₂	12.437	0.26	2 W	275694 2000 SZ ₂₈₁	6.481	0.55	2 W
270648 2002 PK ₁₃₀	7.386	0.43	2 W	275721 2001 AS ₅			HNW
270739 2002 RC ₁₀	5.462	0.42	2 W	275809 2001 QY ₂₉₇	11.68	0.49	2 B
270742 2002 RV ₂₈	5.573	0.76	2 W	275864 2001 SP ₁₇₅	6.677	0.82	2 W
270781 2002 RT ₂₀₀	4.995	0.33	2 W	275898 2001 TM ₈₁	6.368	0.57	2 W
270808 2002 RS ₂₆₄			HNW	275911 2001 TD ₁₄₉	5.68	0.79	2 W
270877 2002 TN ₁₈₅	4.330	0.41	2 W	275912 2001 TW ₁₄₉	5.804	0.61	2 W
270895 2002 TE ₂₅₂			HNW	275955 2001 VY ₆₈	6.86	0.51	2 W
270928 2002 UD ₃₇	2.46	0.35	2 W	275961 2001 VU ₁₂₈			W
270994 2002 XV ₃₉			HNW	275971 2001 WS ₉₁	5.062	0.64-0.96	2 W
271005 2002 XN ₉₄			HNW	275974 2001 XD	26.1	0.50	2 TO
271087 2003 QL ₇			HNW	275976* 2001 XV ₁₀	6.41	0.08	2-
271100 2003 QZ ₉₂	4.140	0.75	2 W	276003 2001 YE ₇	7.24	0.55	1 DAW
271222 2003 TY ₃₇	4.010	0.49	2 W	276033* 2002 AJ ₁₂₉	3.9223	0.17	2+
271445 2004 EC ₁₂	7.577	0.59-0.77	2 W	276049 2002 CE ₂₆	3.2930	0.06-0.07	3 p RAB
271575 2004 LQ ₁₂			HNW	276247 2002 RE ₁₇₆	5.852	0.53-0.54	2 W
271624 2004 PR ₅₅	7.439	0.93	2 W	276291 2002 TL ₅₉	43.100	0.69	2 W
271680 2004 RY ₈₀	5.406	0.51-0.71	2 W	276624 2003 UW ₁₃₉			HNW
271713 2004 RU ₂₀₀	4.19	0.65	2 W	276684 2003 YS ₃₆			HNW
271716 2004 RY ₂₁₂	19.357	0.77	2 W	276698 2004 AA ₇			HNW
271737 2004 RD ₂₉₃			HNW	276738 2004 ET ₄₂	4.925	0.71-0.93	2 W
271745 2004 RM ₃₂₄	8.54	0.55	1 DAW	276741 2004 EM ₆₆	4.56	0.15	2 A
271852 2004 TR ₂₄₈			HNW	276760 2004 GA ₁₉	6.58	0.73	2 W
271918 2004 XB ₄₄	5.16	0.43	1+ W	276786 2004 KD ₁	5.018	0.59	2 W
272157 2005 NU ₈₁			HNW	276946 2004 TU ₂₆₆			HNW
272198 2005 QC ₁₅			HNW	276996 2004 XA ₄₇			HNW
272214 2005 QD ₄₂	20.278	0.58-0.59	2 W	276998 2004 XE ₅₂	3.831	0.50	2 W
272262 2005 QJ ₁₇₂	9.043	0.62	2 W	277011 2004 YZ ₂₁	21.34	0.55	1+ DAW
272294 2005 SA ₂₁	3.21	0.43	2 W	277142 2005 LG ₈	4.63	0.62	2 W
272525 2005 UJ ₂₇₃	34.841	0.56	2 W	277192 2005 QS ₃₅	8.00	0.81	2 W
272552 2005 UE ₄₁₉			HNW	277293 2005 SN ₁₀₆	4.64	0.40	2 W
272555 2005 UE ₄₄₂	4.935	0.51	2 W	277373 2005 UD ₂₀	177.552	0.95	2 W
272589 2005 VA ₅₈			W	277390 2005 UM ₁₂₅			HNW
272594 2005 VE ₉₁	4.687	0.33	2 W	277475 2005 WK ₄	2.595	0.25-0.29	2+ W
272622 2005 WU ₃₈	5.150	0.53	2 W	277570 2005 YP ₁₈₀	3.689	0.27	3 W
272632 2005 WF ₇₁	2.408	0.36	2 W	277574 2005 YR ₁₉₂			HNW
272638 2005 WL ₇₉	5.974	0.45	2 W	277616 2006 BN ₆	5.45	0.31	2 W
272650 2005 WV ₁₄₄	5.33	1.06	2 W	277645 2006 BW ₁₁₂			HNW
272655 2005 WD ₁₇₁			W	277650 2006 BJ ₁₃₀	4.12	0.54	2+ W
272714 2005 YM ₃₅			HNW	277866 2006 JP ₃₂			HNW
272769 2005 YL ₁₇₆			HNW	278095 2007 BW ₂₇			HNW
272833 2006 BV ₁	5.33	0.87	2 W	278112 2007 CK	3.98	0.18	2 W
272841 2006 BG ₁₈	4.85	0.72	2 W	278184 2007 DR ₉₈	5.08	0.84	2 W
272853 2006 BH ₃₉	3.87	0.62	1+ W	278198 2007 EO ₁₂			HNW
272872 2006 BY ₈₁	7.650	0.71	2 W	278217 2007 EK ₅₄			HNW
272942 2006 BU ₂₇₆	73.129	0.72	2 W	278258 2007 EH ₂₁₄			HNW
273001 2006 DJ ₆₈	7.057	0.46	2 W	278361* 2007 JJ ₄₃	12.097	0.10-0.13	2 W

MINOR PLANET LIGHTCURVE PARAMETERS

Planet				Planet					
Planet	Period	Variation	Note	Planet	Period	Variation	Note		
278451	2007 TO ₂₂	19.130	0.42	2	W	20.581	0.87	2	W
278533	2008 EP ₄₇				HNW	>24.	>0.1		N
278553	2008 FL ₉₆				HNW	0.065	0.08	1+	
278564	2008 GK ₉₇				HNW	5.834	0.69	2	W
278573	2008 HF ₂₆				HNW	92.641	0.66	2	W
278577	2008 HG ₄₀				HNW	285805	2000 YV ₂₇		HNW
278648	2008 RY ₃₇	4.666	0.48	2	W	285840	2001 FP ₄₉	5.00	0.60
278686	2008 RN ₁₁₅	5.03	1.18	2	W	285944	2001 RZ ₁₁	2.2455	0.09-0.11
278807	2008 SQ ₂₄₄	6.32	1.04	2	W	286096	2001 TR ₄₇	11.03	0.62
278856	2008 TZ ₂₂	4.12	0.86	2	W	286176	2001 UD ₄₃		2
278889	2008 TC ₈₈	13.15	0.71	2	W	286227	2001 UV ₁₄₀	5.82	0.30
278973	2008 UO ₁₅₉	5.447	0.83	2	W	286322	2001 WD ₈₃	3.14	0.76
278983	2008 UM ₁₉₀	3.760	0.19	2	W	286340	2001 XS ₄₃	5.61	0.26
278984	2008 UZ ₁₉₃	3.568	0.51	2	W	286750	2002 GU ₁₇₁	5.55	0.67
279010	2008 UN ₂₈₁	3.688	0.47	2	W	286771	2002 JF ₂₃	8.584	0.31
279037	2008 VU ₁₃				HNW	286836	2002 NX ₃₈	5.44	0.68
279043	2008 VT ₃₃	9.366	0.65	2	W	286901	2002 PU ₆₄	5.959	0.76
279121	2009 OP ₂₂	126.530	0.10	1	W	287110	2002 RC ₁₆₀	7.30	0.17
279208	2009 UQ ₃₅	499.588	0.46	2	W	287190	2002 SL ₄	7.058	0.93
279424	2010 JY ₁₅₁				HNW	287254	2002 TT ₁₀₁	5.722	0.57-0.65
279501	2011 AE ₄₃				HNW	287471	2003 AK ₄₆	2.75	0.33
279536	2011 CV	9.189	0.72	2	W	287507	2003 BQ ₅₈	44.282	0.77
279586	2011 EE	6.23	0.73	2	W	287659	2003 MV ₉		
279562	2011 FJ ₄	5.22	0.55	2	W	287677	2003 QB ₄	6.593	0.37
279678	2011 FP ₃₂	8.654	0.41	2	W	287737	2003 SX ₅	6.574	0.68
279740	1998 BO ₆				HNW	287823	2003 SK ₁₉₄	7.894	0.97
279777*	1999 TT ₁₄₄	6.517	0.55	2+	W	287950	2003 UG ₉₃	3.542	0.35
279947*	2001 SG ₁₄₂	6.60	0.44	2+	W	288224	2003 YV ₅₉	4.03	0.96
280009	2001 VM ₆	3.76	0.29	2	W	288266	2003 YH ₁₅₄	5.146	0.45
280070	2002 CR ₁₉₂				HNW	288286	2004 AT ₁₂		
280084	2002 CZ ₂₉₅	7.80	0.39	2	W	288293	2004 AC ₂₅		
280225	2002 UT ₅₈	4.07	0.65	1+	W	288309	2004 BJ ₃₃		
280308	2003 QP ₅₈	2.23	0.44	2	W	288443	2004 EU ₄₅		0.9
280343	2003 SA ₁₇₆	11.015	0.82	2	W	288457	2004 EE ₇₅	8.344	0.40
280427	2003 YH ₅₆				HNW	288616	2004 NV ₉	4.409	0.25
280589	2004 TX ₃₄₈	114.717	0.46	2	W	288688	2004 PY ₁₀₃	5.782	0.25
280781	2005 SO ₁₂₉	5.091	0.66	2	W	288708	2004 RB ₇	8.58	0.21
281012	2006 EA ₁₁	2.36	0.43	2	W	288791	2004 RM ₁₄₁	19.719	0.39
281026	2006 GU ₄	4.27	0.46	2	W	288944	2004 SL ₅₁		
281052	2006 HH ₁₅₃				HNW	289007	2004 TW ₈₆		
281122	2007 BW ₅₇	6.836	0.67-0.98	2	W	289114	2004 TK ₃₄₆	3.81	0.63
281375	2008 JV ₁₉	3.500	0.30	3-	W	289117	2004 TV ₃₅₅	4.689	0.43
281702	2008 WT ₇₉				HNW	289146	2004 VL ₁₄		
281807	2009 WC ₇₆				HNW	289431	2005 EJ ₂₅	6.290	0.53
281823	2009 XQ ₂₄				HNW	289668*	2005 GN ₁₃₇	>48.	>1.2
281826	2009 YG ₂₀				HNW	289931	2005 NW ₃₂	4.66	0.83
281981	2011 HJ ₁₂	9.23	0.89	2	W	289980	2005 OK ₇	59.571	0.62
282077	2000 ER ₁₄₂	10.819	0.56-0.77	2	W	290206	2005 SW ₃₈		
282081	2000 NG	6.59	0.33	2	W	290351	2005 SO ₂₅₁	7.275	0.54
282115	2000 YS ₉₇	36.225	0.48	2	W	290559	2005 UV ₁₀₈	11.634	0.48
282192	2001 TB ₂₂₉	38.436	0.58	2	W	290723	2005 UZ ₄₃₇	6.76	0.42
282500*	2004 PL ₆₂	>24.	>1.		W	291120	2005 YP ₁₉₉	7.54	0.71
282631	2005 SV ₁	16.8	0.31		N	291277	2006 BJ ₁₀₀	6.420	0.70
282694	2006 AO ₅	11.85	0.21	2	W	291299	2006 BV ₁₄₀	6.154	0.76
282705	2006 BD ₉₆	2.68	0.32	2	W	291447	2006 DH ₄₀	14.12	0.89
282774	2006 JA ₄₉	53.779	0.81	2	W	291901	2006 QB ₈	8.201	0.73
282858	2007 CX ₁₂	15.48	1.05	2-	W	291911	2006 QV ₁₁	53.213	0.79
283057	Casteldipiazza	3.92	0.84	2	W	291997	2006 QJ ₁₁₃	5.05	0.84
283252	2011 EL ₅₃	8.28	0.68	2	W	292019	2006 QP ₁₄₉	4.68	0.57
283265	2011 FM ₁₅₅	9.283	0.58	2	W	292079	2006 RN ₂₆	2.3274	0.20
283401	2000 SV ₁₅	502.040	0.37	2	W	292869	2006 VB ₆	6.096	0.54
283460	2001 PD ₁	14.58	0.12		NA	293054	2006 WP ₁₂₇	5.311	0.35
283603	2001 YH ₁₅₃	16.714	0.43	2	W	293404	2007 EN ₇₉	2.67	0.50
283606	2002 AX ₉₆	14.142	0.46	2	W	293628	2007 NE ₁	7.172	0.74-1.15
283633	2002 EG ₅	5.30	0.95	2	W	293634	2007 OS ₄	7.437	0.23
283741	2002 XH ₁₁₈	6.48	0.59-0.75	2	W	294268	2007 UY ₉₅		
283764	2003 GW ₈	4.29	0.40	2	W	294282	2007 UV ₁₀₈	4.82	0.74
283912	2004 FW ₁₁₁				HNW	294377	2007 VO ₁₃₂		
284441	2007 EN ₃₇	6.76	0.90	1	DAW	294622	2008 AB ₃₅		
284675	2008 RA ₇₀	>6.	>0.6	1	W	294739	2008 CM	3.054	0.18-0.49
284772	2008 WM ₁₂₁	6.00	0.39	2	W	294796	2008 CB ₇₂	8.833	0.60
284925	2010 CY ₁₀₃	5.668	0.70-0.74	2	W	294822	2008 CK ₁₂₇	11.85	1.00
284970	2010 FP ₁₀₀	2.56	0.43	2	W	294954	2008 DU ₈₁	3.278	0.54
284975	2010 GG ₂₇				HNW	295041	2008 ER ₉₈	3.172	0.38
285032	2011 EX ₂₆	140.919	0.55	2	W	295076	2008 ER ₁₃₁	7.20	0.65
285036	2011 EJ ₅₁				HNW	295479	2008 GP ₃₀	12.702	0.55
285106	1995 FL ₇				HNW	295646	2008 SG ₂₈₀	5.342	0.59
285263	1998 QE ₂	4.749	0.19-0.20	3	RB	295704	2008 TZ ₁₈₉	5.27	0.96
285405	1999 UZ ₃	78.034	0.58	2	W	295723	2008 UR ₅₁		
285409	1999 UF ₃₂	6.67	0.82	2	W	295927	2008 WZ ₁₃₇	6.44	0.62

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295930	2008 XQ ₄	6.19	0.89	2- W	307251	2002 KW ₁₄	8.58	0.21-0.25	2 A
296089	2009 BK ₁₇	12.97	0.75	2 W	307321	2002 QA ₁₂₃		1.0	1 I
296094	2009 BB ₃₂			HNW	307391	2002 TY ₂₅	25.503	0.08	1 W
296119	2009 BU ₆₄	3.90	0.24-0.29	2 W	307425	2002 TA ₂₆₇	5.387	0.64	2 W
296449	2009 HM ₅₉	5.491	0.60	2 W	307455	2002 VP ₅₅	4.774	0.76	2 W
296521	2009 MZ ₈			2 W	307505	2002 YX ₁₁	4.024	0.13	2 A
296631	2009 SG ₆₁	3.561	0.59	2 W	307517	2003 AH ₄₃	4.530	0.26	2 W
296697	2009 SD ₂₆₉			HNW	307551	2003 EO ₂₉	5.78	0.71	2 W
296879*	2010 AK ₃₂	4.957	0.61	2 W	307835	2003 YF ₆₀	8.620	0.73	2 W
296886	2010 AF ₇₉	9.613	0.45-0.69	2 W	307955	2004 GA ₂₃			HNW
296914	2010 CO ₈₁	7.44	0.98	2 W	308193	2005 CB ₇₉	6.76	0.13	2+
296984	2010 ER ₁₀₅	5.010	0.44-0.53	2 W	308242	2005 GO ₂₁	11.00	0.24	2 A
297148	2010 UD ₁₁	3.612	0.44	2 W	308250	2005 GC ₆₀	8.903	0.40	2+
297274	1996 SK	4.645	0.39	3	308335	2005 OE ₁₈	5.890	0.58	2 W
297281	1997 GJ ₃₀			W	308377	2005 RM ₃₀	5.924	0.58	2 W
297341	1999 XR ₁₀₂	7.930	0.76	2 W	308543	2005 UO ₂₁₃	30.73	0.31	NA
297715	2001 VZ ₁₂₃	19.46	1.0	3- W	308568	2005 UU ₃₉₆	7.689	0.26	NA
298216	2002 TT ₃₇₅	8.250	0.78	2 W	308612	2005 WP ₉₀	5.284	0.62	2 W
298305	2003 DO	4.50	0.73	2 W	308628	2005 XM ₄₉	4.053	0.39	2 W
298312	2003 EE ₁₈	5.08	0.71	2 W	308635	2005 YU ₅₅	19.31	0.20-0.30	2 p
298929	2004 TQ ₁₆₀	7.272	0.73	2 W	308771	2006 OK ₁₃			HNW
299146	2005 EU ₂₆₆	10.291	0.56	2 W	308977*	2006 TU ₁₀₃	6.72	0.33	2 W
299209	2005 JN ₃₆	2.91	0.71	2 W	309020*	2006 UY ₁₁₆	>48.	>1.2	W
299262	2005 NT ₅₁	6.548	0.64	2 W	309048	2006 UG ₂₅₆	10.090	0.52	2 W
299348	2005 SU ₁₇₉	5.530	0.53	2 W	309092	2006 VY ₁₂₂	5.310	0.77	2 W
299484	2006 BX ₁₈₂	8.28	0.71	2 W	309882	2009 DV ₁₂₇			HNW
299763	2006 SE ₁₂	13.249	0.47	2 W	310071	2010 KR ₅₉	8.988	0.29-0.37	2 W
299832	2006 SB ₁₈₈	5.65	0.43	2 W	310198	2011 SU ₁₂₀	4.495	0.53	2 W
300059	2006 UV ₁₈₆	6.23	0.77	2 W	310226	2011 SU ₂₃₀	3.788	0.10	1 W
300139	2006 VU ₅₈	6.44	0.60	2 W	310471	2000 SS ₁₀₂	2.45	0.18	1 W
300163*	2006 VW ₁₃₉	3240.		HNB	310540	2001 CC ₂₈	4.550	0.21	2 W
300278	2007 LA ₂₁			HNW	310700	2002 JN ₁₀	3.777	0.17	2 W
300793	2007 VX ₃₂₁	7.496	0.15	2 W	310756	2002 RC ₆₈	9.616	0.59	2 W
300798	2007 VV ₃₃₁	6.586	0.55-0.70	2 W	310842	2003 AK ₁₈	5.3	0.19	N
300848	2007 YX ₁₄	21.719	0.58	2 W	311066	2004 DC	2.5709	0.25	2 RB
301003	2008 GU ₉₈	5.032	0.55	2 W	311247	2005 EU ₁₅	11.94	0.9	2- HW
301150	2008 YB ₇	0.52		N	311485	2005 YB ₅₃	6.186	0.66	2 W
301268*	2009 BK ₈₃	23.	1.20	2- W	311543	2005 VS ₂₂₀	10.506	0.53	2 W
301551	2009 GD ₂	25.260	0.70	2 W	311554	2006 BQ ₁₄₇	9.15	0.31	2+
301844	1990 UA		>0.1		311682	2006 SB ₇₉	8.258	0.29	2 W
301938	2000 AD ₁₃₃	7.635	0.53	2 W	312114	2007 TG ₁₇₇			HNW
301945	2000 BC ₁₅	135.280	0.44	2 W	312391	2008 EO ₁₅₁			HNW
302201	2001 UG ₈₇	2.9	0.22	1 W	312482	2008 TE ₁₂₇	>48.	>0.2	1
302311	2002 AA	4.126	0.26	N	312641	2010 BF ₅₂	13.868	0.70	2 W
302513	2002 HY ₅			HNW	312645	2010 EP ₆₅	14.97	0.17	2- A
302685*	2002 TA ₅₇	22.0	0.90	3- W	312662	2010 LZ ₁₁	14.826	0.40	2 W
302831	2003 FH	13.94	0.99	3- TO	312779	2010 VY ₃₃	8.419	0.80	2 W
302963	2003 UD ₂₂₄	4.807	0.66	2 W	312810	2011 BZ ₁₂₅	5.270	0.69	2 W
303013	2003 WC ₁₂₅	3.8	0.21	2- W	312942	1995 EK ₁	8.444	0.45	3
303142	2004 DU ₂₄	6.2501	0.73	3- W	313492	2002 VT ₂			HNW
303143	2004 DE ₄₁	4.376	0.12	1 W	313554	2003 BY ₆₁	9.425	0.60	2 W
303174	2004 FH ₁₁	2.523	0.18	3- W	313732	2003 UV ₁₈₅	6.19	0.81	2 W
303304	2004 TW ₁₇	4.474	0.43	2 W	313847	2004 EF ₃₂	2.98	0.64	2 W
303486	2005 EJ ₇₁	2.78	0.43	2 W	313937	2004 RP ₉₉	2.999	0.43	2 W
303712	2005 PR ₂₁			HB	313965	2004 RQ ₃₄₃	8.933	0.61	2 W
303775	2005 QU ₁₈₂	9.61	0.12	NA	314561	2005 YK ₁₆₈	4.839	0.68	2 W
303905	2005 TV ₁₅₂	3.468	0.61	2 W	314616	2006 DF ₁₀₄	7.81	0.32	2 HW
303938	2005 VS ₁₃₁	6.246	0.29	NA	314947	2006 WV ₁₁₁	19.108	0.49	2 W
304256	2006 RH ₆₅	6.479	0.32	2 W	315000	2007 AY ₁₉			HNW
304945	2007 TF ₈	16.53	1.0	2+	315019	2007 BW ₄₈	2.590	0.39	2 W
304953*	2007 TG ₄₁	>48.	>0.5	W	315098	2007 EX	2.447	0.20	3- W
304972	2007 TF ₁₅₃	5.058	0.60	2 W	315284	2007 TW ₁₂₄	8.54	0.50	1+ DAW
305090	2007 VQ ₄	2.66	0.11	2+	315307	2007 TK ₂₁₆	6.44	0.82	2 W
305454	2008 DP ₄	0.0607		N	315369	2007 VG ₆	9.30	1.11	3 W
305543	2008 QY ₄₀		0.15	N	315373	2007 VS ₃₈			HNW
305601*	2008 YC ₁₃₄	7.56	0.38	2+	315530	2008 AP ₁₂₉	9.04	0.12	2 A
305667	2009 BF ₈₃	10.837	0.35	2 W	316241	2010 OX ₂₈	29.612	0.59	2 W
306100	2010 HY ₇₉	17.639	0.56	2 W	316249	2010 OL ₅₅	135.030	0.47	2 W
306173	2010 NK ₈₃	9.0	0.45	2 W	316287	2010 RG ₂	4.92	0.52	2- W
306175	2010 TQ ₂₄	3.87	0.85	2 W	316495	2010 VV ₉₉	5.186	0.42	2 W
306236	2011 QR ₆₇	37.125	0.93	2 W	316720	1998 BE ₇	6.6769	0.95	3
306383*	1993 VD	0.94345	0.80	3	316762	1999 TK ₃₃	5.846	0.15	1 W
306638	2000 SF ₃₀	4.758	0.37	2 W	316774	1999 TG ₇₉	14.001	0.25	2 W
306640	2000 SJ ₃₁	10.774	0.46	2 W	316927	2000 YF ₄₅	6.294	0.49	2 W
306695	2000 VL ₁	9.930	0.76	3- W	316933	2001 AV ₅₀	3.564	0.65	2 W
306702	2000 VQ ₅₂	15.995	0.37	2 W	316983	2001 HD ₅₇	7.526	0.68	2 W
306769	2001 BX ₂	44.880	0.21	2 W	317150	2001 UC ₂₂₈		1.7	1 I
306790	2001 KB ₁	71.	0.85	2 T?	317285	2002 FE ₉	5.71	1.40	2 W
306803	2001 QQ ₆₁			HNW	317327	2002 JV ₂₆	6.014	0.43	2 W
307014	2001 XF ₆₂	8.151	0.85	2 W	317478	2002 RF ₂₁₆	6.783	0.54	2 W

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317565	2002 VR ₇₃	8.538	0.22	2 W	326242	2012 DS ₂₁	1.04	0.35	1+ W
317640	2003 ER ₂₃	7.16	0.80	2 W	326317	1999 VN ₂₃	2.98	0.18-0.22	2 W
317721	2003 QR ₄₃	6.04	0.93	2 W	326352	2000 SD ₂₆₃	3.50	0.42	2 W
317791	2003 SF ₁₇₂	5.75	0.79	2+ W	326366	2000 WV ₂₁	306.695	0.72	2 W
317797	2003 SN ₁₈₃	12.16	0.56	1+ DAW	326547	2002 PV ₄₇	7.333	0.49	2 W
317910	2003 UN ₂₆₉	5.11	0.23	1+ W	326609	2002 RR ₅₃	5.25	0.96	2 W
317932	2003 WC ₂	5.96	0.83	1+ DAW	326641	2002 SZ ₃₁	4.80	0.78	1+ W
318261	2004 SF ₁₀	5.065	0.56	2 W	326683*	2002 WP	6.262	1.13-1.42	3 W
318271	2004 SO ₅₃	7.891	0.45	2 W	326694	2003 AN ₂₀	4.080	0.37	2 W
318745	2005 SJ ₁₁			2 HNW	326698	2003 AD ₇₈	4.95	1.10	2 W
318941	2005 UR ₁₄₃	8.18	0.60	1+ DAW	326700	2003 BM ₂	4.254	0.20	2 W
318986	2005 UR ₃₆₅	3.92	0.73	2 W	326732	2003 HB ₆	9.436	0.19	2+ W
319034	2005 VZ ₄₉	2.88	0.39	2 W	326846	2003 UD ₁₃₀	6.260	0.31	2 W
319177	2005 YW ₁₁₇			2 HNW	326869	2003 UF ₂₅₀			2 HNW
319262	2006 BX ₅	8.155	0.43	2 W	326872	2003 UA ₂₉₅	4.92	0.75	2+ W
319523	2006 RB ₃₉	2.514	0.12	1 W	326912*	2003 WM ₁₇₂	12.63	0.47	2- DAW
319534	2006 RJ ₆₀	2.6421	0.13	1 W	327192	2005 MH ₂₂	7.80	0.79	2 W
319633	2006 SJ ₃₆₆	4.541	0.29-0.50	2 W	327241	2005 SQ ₂₁	5.890	0.24	2 W
319666	2006 TD ₄₃	3.740	0.59	2 W	327416	2005 VF ₁₁₂	5.285	0.86	2 W
320045	2007 DQ ₁₁₆	4.640	0.39	2 W	327488	2005 YM ₁₄₇	3.64	0.89	2+ W
320125	2007 EQ ₁₈₅	9.0	0.48	2 A	327655	2006 QF ₅₉	2.532	0.16	2 W
320144	2007 EY ₂₁₉	6.884	0.50	2 W	327749	2006 TA ₆₉	463.658	0.83	2 W
320292	2007 RO ₂₂₁	1.57	0.97	1+ W	327937	2007 DE ₁₁₃	4.36	0.90	2- W
320399	2007 UY ₁₀₅	16.108	0.47-0.57	2 W	328395	2008 RC ₁₂₉	4.23	0.92	2- W
320404	2007 UF ₁₁₉	7.68	0.92	1 DAW	328736	2009 UC ₁₂	6.292	0.90	2 W
320618	2008 CN ₂₇	9.754	0.67	2 W	329310	2000 SF ₆₈	5.157	0.74	2 W
320822	2008 FH ₂₇	12.783	0.67	2 W	329312	2000 SA ₁₃₀	4.934	0.19	2 W
321024	Gijon	4.021	0.71	2 W	329329	2000 WW ₃₇	2.828	0.15	2 W
321141	2008 UD ₁₇₆			2 HNW	329338	2001 JW ₂	>12	0.15	2 W
321184	2008 WM ₁₁₄	4.49	0.61	2 W	329352	2001 SN ₁₆₀	5.532	0.52	2 W
321515	2009 SK ₂₀₁	14.12	0.61	2 W	329365	2001 UA ₁₀₇	5.082	0.53	2 W
321611	2009 VG ₅₈		1.00	1	329437	2002 OA ₂₂	2.6214	0.19-0.41	3 W
321659	2010 CS ₂₀	4.34	0.53	2 W	329586	2002 XY ₁₁₈			2 HNW
321779	2010 OT ₈₂	6.400	0.77	2 W	329614	2003 KU ₂	3.278	0.30	3- W
321974	2010 UF ₃₄	15.473	0.66	2 W	329627	2003 RP ₂₄	12.653	0.71	2 W
321979	2010 UM ₄₅	6.424	0.57	2 W	329687	2003 UM ₁₉₇	6.272	0.54	2 W
321990	2010 UE ₆₃	32.297	0.62	2 W	329712	2003 WV ₅	9.32	0.65	2 W
321994	2010 UY ₇₄	67.398	0.43	2 W	329770	2004 JA	52.1	>0.4	2 NTO
322237	2011 BV ₁₁₄	5.65	0.67	2 W	329831	2004 RT ₃₂₄	7.424	0.69	2 W
322266	2011 ES ₂₅	14.148	0.89	2 W	329841	2004 TW ₄₆	2.843	0.39	2 W
322317	2011 GB ₂			2 HNW	329855	2004 TD ₃₀₈	5.124	0.67	2 W
322375	2011 LQ ₂₂	5.068	0.56	2 W	329892	2005 GB ₃₀	3.87	0.17	1+ W
322377	2011 LJ ₂₆	7.41	0.34	2- W	330274	2006 SK ₁₄₇	6.055	0.30	2- W
322401	2011 QC ₉₇	21.13	0.48	2 W	330305	2006 TA ₇₆			2 HNW
322418	2011 SX ₁₀₂	4.687	0.54	2 W	330372	2006 WU ₉₄			2 HNW
322494	2011 UN ₃₂₂	7.277	0.61	2 W	330388	2006 XS ₅₁	7.20	0.75	1+ DAW
322652	1999 JO ₈	2.386	0.11	2 N	330555	2006 BA ₁₉	3.6		2 N
322656	1999 LV ₃₅	8.956	0.29	2 W	330597	2008 DO ₆	2.31	0.48	1+ W
322658	1999 RF ₃₁	5.383	0.53	2 W	330606	2008 DF ₄₈	5.08	1.24	3- W
322660	1999 RT ₁₆₁	4.377	0.41	2 W	330684	2008 HJ ₄₆	3.47	0.51	2 W
322672	1999 TE ₂₂₁	42.95	0.96	2 W	330698	2008 KT ₁₂	5.073	0.59	2 W
322719	2000 QT ₁₇₀	31.339	0.84	2 W	330711	2008 OM ₁₄	6.072	0.34	2 W
322725	2000 SM ₄₇	9.304	0.77	2 W	330820	2008 WH ₆₂	91.363	0.48	2 W
322777	2001 KL ₄₃	46.893	0.81	2 W	330824	2008 WZ ₁₃₆	5.036	0.39-0.40	2 W
322944	2002 GJ ₁₁₄	4.62	0.70	3- W	330825	2008 XE ₃	4.409	0.15-0.22	3- W
323180	2003 HZ ₃₂	18.472	0.38	2 W	331090	2009 WO ₁₇₁	38.994	0.54	2 W
323194	2003 QA ₄₅	6.337	0.71	2 W	331118	2010 UE ₅₃	18.678	0.49	2 W
323195	2003 QS ₄₈	4.454	0.65	2 W	331132	2010 VJ ₈₂	6.32	1.06	2+ W
323218	2003 SL ₅₄	6.275	0.44	2 W	331179	2011 AC ₃₅	4.884	0.28	2 W
323324	2003 UL ₁₃₅	4.389	0.78	2 W	331471*	1984 QY ₁	45.5	0.46-0.65	2 T
323416	2004 EE ₁	56.127	0.77	2 W	331570	2001 QS ₆₇	11.166	0.56-0.63	2 W
323454	2004 HL ₅₅	5.060	0.76	2 W	331711	2002 RF ₁₈₆	7.324	0.90	2 W
323485	2004 PO ₈	6.501	0.44	2 W	331806	2003 SA ₁₅			2 HNW
323655	2005 CF ₃₃	43.042	0.40	2 W	332019	2005 NP ₁₂₂	268.582	0.41	2 W
323823	2005 SR ₃₃	5.308	0.79	2 W	332029	2005 PQ ₁₀			2 HNW
323894	2005 SS ₂₈₇	14.791	0.59	2 NA	332149	2005 YT ₄₁			2 HNW
323943	2005 UW ₁₆	17.226	0.77	2 W	332190	2006 BR ₂₇₇	321.608	0.91	2 W
323989	2005 UY ₂₀₃	6.40	0.75	1+ DAW	332219	2006 GJ ₄₄	9.746	0.60	2 W
324396	2006 SR ₅₃	5.43	0.49	2 W	332477	2008 ED ₈₃	13.52	1.12	2- W
324405	2006 ST ₁₆₀	11.466	0.52	2 W	332485	2008 EP ₁₃₆			2 HNW
324454	2006 TV ₁₂₄	7.995	0.56	2 W	332660*	2008 WL ₇	2.54	0.10	2 W
324526	2006 VX ₁₁₃	10.458	0.45	2 W	332696	2009 RM ₁₉	3.97	0.32	2 W
324798	2007 HO ₂₀	6.08	1.31	2- W	332747	2009 TM ₂₃	8.113	0.69	2 W
325269	2008 GL ₁₁₈	4.73	0.87	1 W	332841	2010 EA ₆	198.653	0.74	2 W
325698	2009 UP ₃₉	4.05	0.58	2 W	332847	2010 FA ₃₀	8.394	0.44-0.71	2 W
325771	2010 MC ₆₇	3.317	0.19	2 W	332886	2011 AH ₅₄			2 HNW
325836	2010 SP ₃₈	2.522	0.38	2 W	332984	2011 FG ₆₇	1.59	0.40	1 W
325862	2010 TB ₁₁₇	44.900	0.09	1 W	333277	1996 XM ₂₃	49.808	0.72	2 W
325929	2010 VB ₁₇	360.405	0.68	2 W	333284	1999 PJ ₁	6.2013	1.1	2 N
326093	2011 BZ ₈₈	5.531	0.66	2 W	333319	2001 PD ₁₇			2 HNW

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Planet	Period	Variation	Note	Planet	Period	Variation	Note		
333322	2001	7.74	2	W	338906	2004	5.325	2	W
333356	2001	3.13	2	W	339330	2004	10.79	2	W
333358	2001	3.21	1+		339332	2004	8.757	2	W
333406	2002	2.84	2	W	339406	2005	0.84	2	W
333549	2005		2	HNW	339449	2005	5.61	2	HNW
333578	2006	5.737	2+		339450	2005	0.45	2	W
333733	2009	2.133	1	W	339570	2005	3.71	2	W
333855	1995	5.772	2	W	339597	2005	7.334	2	W
333887	1998	3.914	2	W	339606	2005	64.447	2	W
333888*	1998	5.316	3		339624	2005	3.627	2	W
333915	1999	5.082	2	W	339658	2005	8.356	1	W
333967	2000		2	HNW	339662	2005	7.68	2	W
334033	2000	16.529	2	W	339663	2005	7.33	2	W
334150	2001	5.294	2	W	339756	2005	17.8	2	N
334202	2001	7.040	2	W	339771	2005	4.95	2	W
334206	2001	12.97	2	W	339813	2005	8.869	2	W
334229	2001	9.201	2	W	339899	2005	8.234	2	W
334293	2001	6.345	2	W	340005	2005	7.38	2	W
334301	2001	5.096	2	W	340042	2005			W
334460	2002	5.667	2	W	340193	2005			HNW
334468	2002	5.166	2	W	340225*	2006	8.869	2+	
334527	2002	28.279	2	W	340256	2006	11.71	2	W
334673	2003	2.4840	2	N	340311	2006	5.55	2	W
334689	2003	5.24	1	DAW	340341	2006	7.68	2	W
334773	2003		2		340355	2006	6.76	2	W
334904	2003	1.59	1+	W	340459	2006	5.376	2	W
334934	2004			HNW	340513	2006	7.548	2	W
334998	2004			HNW	340553	2006			HNW
335029	2004	7.296	2	W	340574	2006			HNW
335037	2004			HNW	340618	2006	6.621	2	W
335102	2004			HNW	340658	2006	8.50	2	W
335110	2004	3.84	2	W	340673	2006	5.128	2	W
335154	2004	3.771	2	W	340674	2006	6.3	1	W
335177	2005			HNW	340939	2007	5.7700	2	W
335179	2005	2.44	2	W	341163	2007	5.42	2	W
335196	2005			HNW	341187	2007	3.28	2	W
335293	2005			HNW	341245	2007			HNW
335409	2005			HNW	341274	2007	2.768	2	W
335433	2005	1.29	3		341334	2007	9.858	2	W
335445	2005	6.304	2	W	341343	2007	7.22	2	W
335491	2005	7.747	2	W	341520	Mors-Sodnuss	9.28	2	NB
335493	2005	8.990	2	W	341556	2007	2.67	2	W
335560	2006			HNW	341799	2007	3.60	2	W
335582	2006			HNW	341843	2008	3.725	3	p
335689	2006	35.255	2	W	341880	2008	1.13		I
335742	2007	5.78	2	W	342031	2008	1.52		W
335744	2007	6.15	2-	W	342051	2008			HNW
335748	2007	6.155	2	W	342170	2008	8.983	2	W
335917	2007	5.151	2	W	342266	2008	2.07	2	W
335920	2007	13.163	2	W	342516	2008	2.831	2	W
335991	2007			HNW	342659	2008	6.91	2	W
336044	2007			HNW	342849	2008	4.781	2	W
336110	2008			HNW	342895	2008			HNW
336184	2008	3.196	2	W	343002	2009	3.97	3-	W
336289	2008	15.502	2	W	343098	2009	9.658	2	W
336332	2008	4.603	2	W	343106	2009	5.19	2	W
336360	2008			HNW	343113	2009	5.85	2	W
336498	2008			HNW	343133	2009	11.16	2	W
336526	2008			HNW	343387	2010	5.038	2	W
336609	2009			HNW	343764	2011	7.68	2	W
336751	2010	7.80	2	W	343850	2011			HNW
336753	2010	11.383	2	W	343945	2011			HNW
336824	2011	45.313	2	W	343993	2011	0.95		I
337069	1998	7.487	3		344044	2012	4.284	2	W
337226	2000	1.87	1	W	344049	6865	9.185	2	W
337391	2001	10.399	1	W	344146	2000	7.748	2	W
337400	2001	7.371	2	W	344357	2001	3.032	1	W
337680	2001	4.97	2	W	344450	2002	6.049	2	W
337773	2001	5.293	2	W	344461	2002	8.35	2	W
337824	2001	2.548	2	W	344589	2003	8.245	2	W
337866*	2001	8.955	2+		344597	2003	10.636	2	W
337990	2002	5.55	2	W	344683	2003	6.00	2	W
338103	2002	7.74	2	W	344927	2004	2.82	2	W
338155	2002	3.00	2	W	345120	2005	7.33	2	W
338176	2002	9.98	2		345304	2005			HNW
338237	2002	5.33	2	W	345558	2006	40	1	W
338288	2002	9.90	2	W	345646	2006	3.05	2+	
338304	2002	30.948	2	W	345705	2006	3.204	3	W
338524	2003			HNW	345781	2007	2.00	1	W
338603	2003	2.92	2	W	345804*	2007	22.3	2	W

MINOR PLANET LIGHTCURVE PARAMETERS

Planet	Period	Variation	Note	Planet	Period	Variation	Note				
345853	2007 <i>PU</i> ₁₁	56.8	0.98	3	T0	361394	2006 <i>VX</i> ₁₂₆	3.668	0.58	2	W
346352	2008 <i>RM</i> ₁₁₈	1.22	0.63	1+	W	361838	2008 <i>DU</i> ₁₄				HNW
346641	2008 <i>XD</i> ₁₂	3.60	0.77	2	W	362001	2008 <i>UO</i> ₄₃				HNW
346653	2008 <i>XC</i> ₅₅	3.60	0.52	2	W	362184	2009 <i>FZ</i> ₆₄	10.562	0.33	2	W
346759	2009 <i>BV</i> ₄₆	4.85	0.80	2	W	362196	2009 <i>HE</i> ₉	5.956	0.80	2	W
346802	2009 <i>BZ</i> ₁₇₇	5.85	0.63	2	W	362248	2009 <i>KV</i> ₂₃				HNW
346816	2009 <i>CV</i> ₅₁	5.11	0.33	2	W	362493	2010 <i>TM</i> ₂₅	6.742	0.73	2	W
346895	2009 <i>SN</i> ₃₈				HNW	362973	2013 <i>CB</i> ₁₇				HNW
346993	2010 <i>CT</i> ₁₄₈	5.113	0.54	2	W	363018	1996 <i>TA</i> ₆	7.16	0.30	1+	DAW
347054	2010 <i>EZ</i> ₁₃₇	6.644	0.92	2	W	363027	1998 <i>ST</i> ₂₇	3.	0.1	2	RB
347295	2011 <i>OM</i> ₃	10.32	0.41	2	W	363044	1999 <i>TY</i> ₂₄₃	31.775	0.10	1	W
347336	2012 <i>NN</i> ₁	3.82	0.74	2	W	363050	1999 <i>VA</i> ₇₅	6.854	0.39	2	W
347426	2012 <i>TZ</i> ₂	6.269	0.70	2	W	363067	2000 <i>CO</i> ₁₀₁	5.120	0.10	2	B
347461	2012 <i>TW</i> ₃₀₂	3.09	0.45	2	W	363075	2000 <i>OG</i> ₈	4.0734	0.14		N
347524	1999 <i>TK</i> ₂₁₀	33.024	0.44	2	W	363084	2000 <i>RD</i> ₅₃	14.96	0.09		NT0
347629	2001 <i>SY</i> ₁₇₄	57.824	0.37	2	W	363163	2001 <i>SE</i> ₂₈₆	9.323	0.14		N
347808	2002 <i>LJ</i> ₂	9.006	0.58	2	W	363305	2002 <i>NV</i> ₁₆	0.9067	0.20	2	
347813*	2002 <i>NP</i> ₁	5.915	0.73-0.86	3		363567	2004 <i>AH</i> ₈	19.977	0.56	2	W
347926	2003 <i>CH</i> ₁₇	9.011	0.65	2	W	363599	2004 <i>FG</i> ₁₁	<4.		2	RB
348084	2003 <i>WO</i> ₉₄	8.65	0.95	2	W	363620	2004 <i>PG</i> ₅	3.501	0.40	2	W
348400*	2005 <i>JF</i> ₂₁	2.4149	0.05-0.14	3	AM	363736	2004 <i>XH</i> ₆₆				HNW
348431	2005 <i>QL</i> ₇	4.53	0.53	2	W	363770	2005 <i>EJ</i> ₁₄₁	>12.	>0.3	2-	
348519	2005 <i>UK</i> ₅₃	171.479	0.67	2	W	363814*	2005 <i>ND</i> ₇	6.6	0.07	1+	
348631	2005 <i>YN</i> ₁₂₁	17.513	0.83	2	W	364024	2005 <i>VB</i> ₇₇	6.110	0.64	2	W
348802	2006 <i>QF</i> ₅₈	4.974	0.31	2	W	364171	2006 <i>JZ</i> ₈₁				INB
348834	2006 <i>RV</i> ₉₂	6.03	0.10	1	W	364323	2006 <i>UE</i> ₉₀	2.498	0.19	2	W
349000	2006 <i>UU</i> ₂₄₀				HNW	364523	2007 <i>EQ</i> ₁₈₀	6.76	0.65	2-	W
349068	2006 <i>YT</i> ₁₃	2.433	0.11	3	W	365456	2010 <i>NX</i> ₆₆	4.47	0.47	2	W
349115	2007 <i>GR</i> ₃₆	5.16	0.77	2	W	365491	2010 <i>PD</i> ₇₉	5.71	0.67	3-	W
349243	2007 <i>TB</i> ₁₀₅	6.36	0.78	2	W	365505	2010 <i>RB</i> ₆₈	23.039	0.62	2	W
349509	2008 <i>QR</i> ₅	6.67	0.60	2	W	365893	2011 <i>WB</i> ₃	5.25	1.60	2	W
349755	2009 <i>AE</i> ₂	8.47	0.61	2-	W	366199	2012 <i>JL</i> ₂₆	9.980	0.46	2	W
349880	2009 <i>DD</i> ₈₄	5.89	0.79	2	W	366205	2012 <i>RX</i> ₇				HNW
350048	2010 <i>OG</i> ₃₀	28.038	0.42	2	W	366221	2012 <i>TH</i> ₂₃₂	3.61	0.61	2	W
350230	2012 <i>TW</i> ₂₆	57.321	0.40	2	W	366326	2013 <i>EW</i> ₃₉	109.611	0.58	2	W
350988	2003 <i>GW</i>	9.58	0.18	2-		366343	1994 <i>LC</i> ₁	2.406	0.13	3	
351898	2006 <i>SE</i> ₂₄₂	18.5	0.2	1	W	366387	2001 <i>CT</i> ₂₀	7.707	0.41	2	W
352143	2007 <i>LR</i> ₃₂	2.4162	0.14	3-		366593	2002 <i>UF</i> ₂₁	39.309	0.74	2	W
352712	2008 <i>SM</i> ₁₉₁	5.699	0.61	2	W	366681	2003 <i>UV</i> ₁₄₉	3.499	0.44	2	W
353215	2009 <i>TE</i> ₁₂	>24.				366733*	2004 <i>BG</i> ₁₂₁	5.625	0.69	3-	
353253	2010 <i>EQ</i> ₄₂	8.89	0.28	2	W	367248	2007 <i>MK</i> ₁₃	5.286	1.40-2.20	3	
353363*	2010 <i>XP</i> ₅₀	5.403	0.31-0.36	2+	HW	367696	2010 <i>RT</i> ₁₂₆	6.402	0.38	2	W
353778	2012 <i>HA</i> ₇₇	5.39	0.64	2+	W	367943*	Duende	8.724	1.02-1.79	3	T
353785	2012 <i>KW</i> ₃₀	49.722	0.62	2	W	367971	2012 <i>DZ</i> ₉₆	16.14	0.90	1	DAW
353866	2012 <i>WN</i> ₂	26.5	0.5	1	W	368099	2013 <i>CP</i>		0.9		I
353938	1998 <i>QR</i> ₁₅	2.454	0.11		N	368153	1995 <i>UX</i> ₁	10.95	0.53	2	
353952	1999 <i>RL</i> ₈₄	13.037	0.53	2	W	368174	2000 <i>AT</i> ₂₁₅	5.39	0.95	2	W
354182*	2002 <i>DU</i> ₃	4.40	0.24	2-		368176	2000 <i>BQ</i> ₁₂				HNW
354227	2002 <i>JR</i> ₁₁₉	9.964	0.25	2	W	368194	2000 <i>WO</i> ₄	2.691	0.09	1	W
354952*	2006 <i>FJ</i> ₉	>8.	>0.15			368242	2001 <i>VN</i> ₁₀	4.576	0.46	2	W
355256	2007 <i>KN</i> ₄	7.141	0.40	2	W	368277	2002 <i>JX</i> ₉	4.550	0.65	2	W
355994*	2009 <i>BL</i> ₁₄	7.21	0.24	2	W	368280	2002 <i>LK</i> ₅₅	32.877	0.76	2	W
356102*	2009 <i>EK</i> ₃₀	20.4	0.62	1+	W	368375	2002 <i>RG</i> ₇₁	3.216	0.31	2	W
356261	2009 <i>VB</i> ₃		1.48		I	368401	2002 <i>TP</i> ₅₀	91.943	0.09	1	W
356471	2011 <i>QU</i> ₅₉	12.575	0.46	2	W	368411	2002 <i>TA</i> ₁₆₆	77.598	0.56	2	W
356766	2011 <i>UT</i> ₂₆₉	37.848	0.56	2	W	368416	2002 <i>TK</i> ₂₃₇	58.948	0.33	2	W
357024*	1999 <i>YR</i> ₁₄	4.2477	0.90-1.38	3		368429	2002 <i>UP</i> ₁₆	4.666	0.66	2	W
357056	2001 <i>MN</i> ₁₆	5.729	0.93	2	W	368467	2003 <i>SB</i> ₁₄₆	7.466	0.62	2	W
357439	2004 <i>BL</i> ₈₆	2.6205	0.07-0.17	3	AB	368471	2003 <i>SU</i> ₁₈₅	4.588	0.47	2	W
357574	2004 <i>TJ</i> ₁₆₇				HNW	368477	2003 <i>SX</i> ₂₅₃	9.722	0.76	2	W
357598	2004 <i>XW</i> ₁₀₄	60.360	0.38	2	W	368536	2003 <i>WH</i> ₁₁₅	5.534	0.74	2	W
357622	2005 <i>EY</i> ₉₅	3.925	0.24	3-		368577	2004 <i>PZ</i> ₄₂	2.899	0.47	2	W
357911	2005 <i>VR</i> ₁₃₁	5.2737	0.36		NA	368585	2004 <i>QV</i> ₂₀	6.864	0.34	2	W
358109	2006 <i>KZ</i> ₁₂₃	56.124	0.10	1	W	368605	2004 <i>RA</i> ₂₁₂	29.812	0.42	2	W
358332	2006 <i>VT</i> ₆₅	6.195	0.60	2	W	368632	2004 <i>XM</i> ₁₈	3.601	0.18	2	W
358449	2007 <i>EM</i> ₃₆	9.643	0.59	2	W	368664	2005 <i>JA</i> ₂₂	31.7	0.92	2+	T?
358605	2007 <i>VE</i> ₁₂	8.574	0.80	2	W	368758	2005 <i>VK</i> ₆	48.314	1.13	2	W
359248	2009 <i>FQ</i> ₁₂				HNW	369236	2008 <i>UR</i> ₃₆₂	9.647	0.88	2	W
359494	2010 <i>OP</i> ₉₉	3.723	0.33	2	W	369243	2008 <i>WJ</i> ₆₉	15.015	0.42	2	W
359713	2011 <i>TV</i> ₉	6.511	0.51	2	W	369451	2010 <i>CV</i> ₂₄₉	5.9	0.51	2-	W
359794*	2011 <i>UF</i> ₁₉₈	53.5	0.32	2	W	369498	2010 <i>VQ</i> ₁₄	6.179	0.43	2	W
359995	2012 <i>VA</i> ₁₀₂	5.850	0.55	2-	W	369598	2011 <i>CF</i> ₃₁	3.19	0.41	2-	W
360202	1997 <i>WK</i> ₂₇	5.84	1.14	1	DAW	369686	2012 <i>BL</i> ₂₈	17.252	0.62	2	W
360254	2000 <i>JU</i> ₃	92.230	0.58	2	W	369941	2013 <i>GW</i> ₇₂	6.023	0.39	2	W
360288	2001 <i>BM</i> ₃	4.225	0.31	2	W	369984	1998 <i>QR</i> ₅₂	234.	0.88		NT-
360433	2002 <i>JR</i> ₉	8.452	0.25		N	370019	2000 <i>EW</i> ₃₃	4.57	0.32	1+	W
360737	2004 <i>TF</i> ₃₆₈	6.71	0.71	2	W	370180	2002 <i>CR</i> ₃₄	18.982	0.28	2	W
360888	2005 <i>SY</i> ₁₀₂	6.337	0.67	2	W	370227	2002 <i>OC</i> ₂₇	3.926	0.57	2	W
360962	2005 <i>UF</i> ₁₂₉				HNW	370233	2002 <i>PY</i> ₉₀	7.691	0.74	2	W
361071	2006 <i>AO</i> ₄	4.093	0.13-0.33	3		370273	2002 <i>QU</i> ₅₉	6.274	0.54	2	W

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Planet	Period	Variation	Note	Planet	Period	Variation	Note
370307	2002	RH ₅₂	4.218	0.09-0.78	3		
370315	2002	RP ₁₁₂	13.982	0.21	2		W
370375	2002	TU ₇₄	67.135	0.57	2		W
370376	2002	TN ₈₄	7.461	0.56	2		W
370382	2002	TW ₁₂₂	5.648	0.81	2		W
370396	2002	TU ₁₇₀	4.072	0.51	2		W
370486	2003	QD ₇₃	17.072	0.57	2		W
370498	2003	SD ₃₆	4.703	0.35	2		W
370499	2003	SC ₅₅	4.287	0.93	2		W
370500	2003	SA ₆₁	40.629	0.57	2		W
370712	2004	QK ₅	46.265	0.58	2		W
370718	2004	RY ₁₁	21.899	1.01	2		W
370746	2004	RZ ₁₆₂	4.272	0.27	2		W
371090	2005	UB ₄₄₄	15.018	0.77	2		W
371115	2005	VS ₉₈	12.246	0.72	2		W
371135	2005	WJ ₁₁₈	3.880	0.35	2		W
371166	2005	YT ₃₁	7.50	0.49	2		W
371414	2006	SZ ₄₈	5.254	0.13	1+		W
371459	2006	SH ₃₆₁	29.820	0.36	2		W
371486	2006	TT ₆₆	31.063	0.76	2		W
371549	2006	VF ₂	14.656	0.26	2		W
371599	2006	WG ₁₂₅	2.60	0.26	2		W
371791	2007	OC ₆	9.347	0.35	2		W
371792	2007	PP ₁	6.700	0.51	2		W
372018	2008	LU ₁₇	3.162	0.27	2		W
372020	2008	OC ₁₂	4.87	0.45	1		W
372243	2008	US ₁₃₃	10.676	0.50	2		W
372310	2008	WR ₉₄	39.652	0.59	2		W
372339	2009	DS ₈₂	5.78	0.85	2-		W
372371	2009	MK	16.147	0.54	2		W
372435	2009	SE ₄₉	6.698	0.70	2		W
372491	2009	SR ₂₄₀	12.349	0.52	2		W
372544	2009	TJ ₂₃	7.935	0.75	2		W
372756	2010	CR ₁₅	7.409	0.76	2		W
372858	2010	VB ₁₇₁	123.541	0.39	2		W
372913	2011	AN ₇₇	2.457	0.32	2		W
372918	2011	BW ₅	7.11	1.04	2		W
372963	2011	BY ₁₁₁	1.07	0.40	1		W
373145	2012	BO ₂₄	5.432	0.65	2		W
373427	1999	RB ₂₅₂	43.199	0.57	2		W
373438	1999	TK ₁₇₆	7.029	0.10	1+		W
373479	2000	SQ ₂₉₁	14.762	0.50	2		W
373516	2001	RS ₁₃₄	13.957	0.67	2		W
373533	2001	TF ₁₁	7.27	0.61	2		W
373534	2001	TR ₁₆₉	5.064	0.89	2		W
373567	2001	XT ₁₀₅					HNW
373580	2002	AU ₄₈	7.778	0.74	2		W
373673	2002	QM ₁₁₄	5.691	0.55	2		W
373682	2002	RT ₅	30.366	0.66	2		W
373689	2002	RN ₇₆	13.636	0.80	2		W
373814	2002	VU ₁₄₁	10.083	0.47	2		W
373832	2002	XO ₈₇	34.591	0.72	2		W
373855	2003	QY ₆	13.381	0.56	2		W
373916	2003	UC ₁₃₇	6.070	0.60	2		W
373933	2003	UP ₂₈₇					HNW
373964	2003	WV ₁₉₀					HNW
373967	2003	XJ ₅	4.292	0.38	2		W
374038	2004	HW	2.52	0.2	1		W
374089	2004	RV ₂₁₁	63.695	0.39	2		W
374102	2004	RT ₂₈₉	58.192	0.78	2		W
374107	2004	SE	11.188	0.25	2		W
374111	2004	SU ₂₈	6.853	0.52	2		W
374115	2004	TO ₂	28.061	0.65	2		W
374158	2004	UL	38.	1.2	2		T
374159	2004	UJ ₅	8.010	0.43	2		W
374179	2004	XQ ₇₆	8.922	0.63	2		W
374408	2005	WW ₂₉	5.664	0.47	2		W
374500	2005	YH ₁₅₄	53.102	0.97	2		W
374539	2006	BS ₅₆	4.62	1.12	3-		W
374702	2006	RJ ₆₂	194.885	0.95	2		W
374706	2006	RK ₉₂	51.	0.4	1+		W
374718	2006	SS ₂₅	19.736	0.65	2		W
374766	2006	SB ₂₈₃	5.288	0.51	2		W
374770	2006	SL ₃₃₆					HNW
374779	2006	TC ₁₀	10.555	0.80	2		W
374826	2006	UV ₁₉₃	6.347	0.52	2		W
374851	2006	VV ₂	2.425	0.2	3		p B
374906	2006	WG ₂₀₄	9.484	0.43	2		W
375070	2007	RF ₃₁	8.891	0.65	2		W
375090	2007	RJ ₂₄₂	5.924	0.60	2		W
375101	2007	TB ₄₄	15.467	0.47	2		W
375330	2008	RZ ₁₃₁	4.42	0.93	2		W
375336	2008	SV	4.478	0.49	2		W
375415	2008	SZ ₂₈₆	8.42	0.61	1		W
375582	2008	UK ₃₇₀	4.668	0.36	2		W
375695	2009	OY ₄	5.486	0.64	2		W
375714	2009	QE ₉	4.039	0.49	2		W
375757	2009	SV ₈₁					HNW
375904	2009	VJ ₁₀₅	183.190	0.73	2		W
375914	2009	WV ₂₃	12.716	0.39	2		W
375941	2009	WE ₁₀₂	3.64	0.12	2		W
375977	2009	WB ₂₃₄	5.645	0.44	2		W
375995	2009	XZ ₂₄	88.750	0.39	2		W
376021	2010	AQ ₇₆	8.891	0.52	2		W
376050	2010	DW ₄₂	6.96	0.81	1+		W
376052	2010	EH ₄₄	>80.	>0.95	2-		W
376059	2010	FY ₁₄	116.910	0.60	2		W
376312	2011	GV ₂₈	10.91	0.57	2		W
376752	1999	VE ₁₄	6.728	0.25	2		W
376821	2001	CL ₁₈					HNW
376840	2001	QG ₁₆₁					HNW
376842	2001	QM ₂₅₉	5.162	0.32-0.48	2		W
376998	2002	PZ ₁₈₂					HNW
377005	2002	QO ₈₇					HNW
377019	2002	RY ₉₁	5.09	0.88	2		W
377097	2002	WQ ₄	36.	0.6	1+		W
377119	2002	YQ ₂₄	4.052	0.22	2		W
377147	2003	RW ₁₈					HNW
377173*	2003	UE ₇	>1.8	>0.10			HNW
377234	2004	BF ₃₃					HNW
377354	2004	RL ₆₃					HNW
377401	2004	SN ₂₂	14.812	0.42	2		W
377458	2004	VS ₉₁					HNW
377470	2004	XX ₁₆₁	19.224	0.41	2		W
377616	2005	SO ₇₀					HNW
377634	2005	TL ₅₂	7.477	0.79	2		W
377636	2005	TW ₆₂					HNW
377914	2006	EP ₇					HNW
377993	2006	RC ₃₉	116.	0.5	1		W
378009	2006	SG ₄₆	7.507	0.55	2		W
378232	2007	BO ₇₇					HNW
378239	2007	CJ ₅					HNW
378242	2007	CR ₁₂					HNW
378244	2007	CN ₃₆					HNW
378610	2008	FT ₆	112.	0.77	2		W
378711	2008	PP ₁₆	6.181	0.44	2		W
379025	2008	VE ₃₉					HNW
379191	2009	SG ₁₅	3.451	0.76	2		W
379232	2009	SJ ₂₆₉					HNW
379376	2009	WR ₂₆₁	4.12	0.89	2		W
379403	2010	AA ₁₀					HNW
379488	2010	EK ₁₀₇	4.29	0.52	2		W
379555	2011	AU ₄₄					HNW
379613	2011	CE ₈₃	5.93	0.58	2		W
379645	2011	EY ₁₇	9.60	1.05	1		DAW
379918	2012	JE ₆₆	6.76	0.73	2-		W
380046	2013	RH ₅₈	4.92	0.46	2+		W
380087	2013	SJ ₅₁	3.782	0.40	2		W
380101	2013	TP ₁₁	9.003	0.44	2		W
380196	2000	XH ₂₀					HNW
380298	2002	CS ₂₀₈					HNW
380353	2002	RJ ₂₄₇					HNW
380406	2002	SU ₁₃₁	3.40	0.39-0.41	2		W
380413	2003	AS ₇₆	9.333	0.18	2		W
380720	2005	QL ₅₈					HNW
380745	2005	SW ₁₁₄					HNW
380816	2005	YZ ₉₉					HNW
380841	2006	AG ₆₈					HNW
380929	2006	HU ₃₀	49.0	0.17	2		T?
380936	2006	HY ₈₇	7.611	0.72	2		W
380954	2006	KR ₁₂₄	16.841	0.29	2		W
380981	2006	SU ₁₃₁	4.92	0.18	1		A
381022	2006	UV ₂₁₂	13.409	0.70	2		W
381065	2006	XQ ₆₀					HNW
381082	2007	BV ₃₆					HNW
381104	2007	CU ₅₆					HNW
381117	2007	DA ₄₀	2.87	0.95	1+		W
381151	2007	GZ ₁₁					HNW
381196	2007	RM ₂₆					HNW
381225	2007	RO ₂₉₁					HNW

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Planet		Period	Variation	Note	Planet		Period	Variation	Note	
381246	2007 TU ₇₆				385161	2013 UV ₅	6.259	0.59	2 W	
381316	2007 VU ₁₇₇				385186	1994 AW ₁	2.5193	0.12-0.17	3 B	
381341	2008 CU ₁₃				385250	2001 DH ₄₇	3.97	0.50	2	
381418	2008 KQ ₂₉				385343	2002 LV	6.195	0.51-0.94	3	
381457	2008 RM ₅₃				385380	2002 RN ₁₁₂	4.196	0.41	2 W	
381491	2008 SA ₈₈				385446	Manwë			HNB	
381499	2008 SJ ₁₁₈				385529	2004 PT ₇	7.62	0.75	2 W	
381523	2008 SB ₂₁₉				385545	2004 RS ₂₃₇	5.52	0.96	2 W	
381589	2008 UC ₃₃₃	18.307	0.88	2	W	385580	2004 XO ₁₄	8.4172	0.19-0.25	3-
381639	2008 YS ₉₆				HNW	385613	2005 GP ₉₁	6.32	0.66	2 W
381674	2009 BE ₇₉				HNW	385687	2005 SF ₂₈₆	2.36990	0.59	NA
381681	2009 BF ₁₁₂				HNW	385705	2005 UJ ₂₈	6.96	0.43	2 W
381712	2009 QE ₄				HNW	385761	2005 YK ₇₄	3.79	0.49	2 W
381770	2009 SU ₃₂₄				HNW	385770	2005 YQ ₁₉₁	8.50	0.88	2 W
381855	2009 WD ₂₆₄				HNW	385843	2006 JY ₂₅	7.8	1.0	2
381906	2010 CL ₁₉	3.5197	0.39	3		385893	2006 SJ ₂₃₂	5.58	0.54	2 W
381919	2010 CB ₇₀				HNW	386056	2007 FV ₃₅	5.39	0.48	2 W
381955	2010 EO ₄₅	2.78	0.20	1	W	386367	2008 TS ₁₂₇	5.073	0.64	2 W
382027	2011 BT ₁₆₁				HNW	386547	2009 DP ₁₄	5.55	0.73	2 W
382038	2011 CX ₆₀				HNW	386578	2009 EY ₁	4.57	0.44	2 W
382052	2011 DL ₃₀				HNW	386690	2009 WQ ₉	5.52	0.81	2 W
382062	2011 EY ₃₃				HNW	386701	2009 WH ₇₂	5.27	0.49	2 W
382073	2011 FV ₁₅				HNW	386721	2009 XN ₁₂	6.44	0.86	2 W
382169	2012 JU ₁₃				HNW	386723	2009 YE ₇	11.30	0.06	2
382202	2012 PB ₃				HNW	386813	2010 FG ₅₇	11.16	0.67	2 W
382218	2012 QY ₁₉	3.21	0.38	1+	W	386836	2010 JO ₃₉	9.06	1.09	2 W
382243	2012 SV ₃₉	7.20	0.60	1+	DAW	386895	2011 GZ ₇₅			HNW
382261	2012 TQ ₉₄	6.327	0.31-0.44	2	W	386924	2011 KV ₂₈	6.00	0.49	2 W
382391	2013 TS ₁₃₆	35.598	0.54	2	W	387038*	2012 SU ₅₇	5.06	0.79	2 W
382426	1999 AO ₁₄				HNW	387114	2012 TB ₁₆₁	3.28	0.43	2 W
382447	2000 DZ ₃₆		1.09		W	387135	2012 TC ₁₉₆	4.059	0.47-0.65	2 W
382490	2001 GU ₈	7.20	0.75	2		387399	2013 PR ₁₀	6.816	0.71	2 W
382513	2001 SR ₈₉				HNW	387484	2013 YH ₆₂	2.29	0.43	2 W
382583	2002 CQ ₁₆₆	2.21	0.36	2	W	387488	1994 AY ₁₃			HNW
382774	2003 SD ₇₇	4.73	0.71	2	W	387548	2001 BK ₆	5.018	0.31-0.43	2 W
382895	2004 QS ₉				HNW	387733	2003 GS	2.467	0.10-0.14	3
382963	2004 XS ₄₄	8.89	0.62	2	W	387950	2005 EL ₂₃₇	3.52	0.70	2 W
383033	2005 OX ₃₁				HNW	388169	2006 AF ₆₂	1.57	0.84	1+
383039	2005 QJ ₁₈	3.27	0.66	2	W	388176	2006 BH ₁₂₇	4.548	0.47-0.56	2 W
383097	2005 SS ₁₃₆	5.65	0.54	2	W	388188	2006 DP ₁₄	5.77	0.90-1.05	3
383135	2005 UJ ₄₄	10.55	0.62	2	W	388236	2006 KZ ₁₈	6.76	0.53	2 W
383222	2006 AA ₅₀				HNW	388355	2006 TX ₁₁₇	3.04	0.69	2 W
383305	2006 GZ ₄₃				HNW	388468	2007 DB ₈₃	5.41403	0.69-1.00	3
383364	2006 SN ₅₉	3.54	0.53	2	W	388486	2007 EP ₆₈	7.06	0.63	2 W
383455	2006 XU ₁₇	18.737	0.64-0.67	2	W	388507	2007 EW ₁₅₉	6.76	0.80	2 W
383521	2007 CV ₅₅	4.97	0.56	2	W	388838*	2008 EZ ₅	2.859	0.13	3-
383542	2007 DM ₈₃	6.81	0.80	2	W	388945	2008 TZ ₃	44.2	0.56	2 T?
383555	2007 EG ₂₂				HNW	389010	2008 UG ₁₈₀	6.903	0.55	2 W
383582	2007 FN ₃₆	5.16	0.66	2	W	389022	2008 UC ₂₃₉	6.853	0.65	2 W
383609	2007 JJ ₂₀	2.43	0.56	2	W	389134	2009 AW ₃₂	2.67	0.48	2 W
383702	2007 TK ₄₃₆	427.390	0.60	2	W	389260	2009 FL ₆₁	3.64	0.56	2 W
383715	2007 UL ₄₃				HNW	389439	2010 CF ₉₄	10.55	0.48	2 W
383722	2007 UN ₇₉				HNW	389694	2011 QD ₄₈	5.24	0.08	2-
383814	2008 BE ₁₉	7.154	0.65-0.78	2	W	389937	2012 TG ₁₃₆	19.215	0.61-0.63	2 W
383977	2008 TK ₁₀₅	4.95	0.58	2	W	390208	2012 XV ₈	3.89	0.09	2 W
384012	2008 UA ₆₇	6.11	0.52	2	W	390446	2013 YR ₇₃	3.87	0.38	2 W
384028	2008 UE ₁₁₉	5.910	0.57-0.73	2	W	390462	2013 YE ₁₁₁	3.87	0.60	2 W
384040	2008 UF ₁₈₂				HNW	390500	2014 AV ₄₉	3.23	0.48	2 W
384127	2008 YG ₄₉				HNW	390677	2002 TE ₂₄₁	5.099	0.20	1+
384129	2008 YZ ₆₅				HNW	390779	2003 WY ₆	55.101	0.92	2 W
384358	2009 UL ₇₂	5.52	0.67-1.21	2	W	391033	2005 TR ₁₅	850.	1.0	2 TO
384400	2009 WG ₄₃	6.15	0.54	2	W	391123	2005 WS ₁₉	3.302	0.25	2 W
384440	2010 AD ₂₁	6.15	0.57	2	W	391474	2007 HN ₂₉	8.941	0.73	2 W
384460	2010 BC ₅	7.392	0.42-0.43	2	W	391503	2007 PU ₄₅	6.08	0.75	2 W
384477	2010 CN ₃₈	5.506	0.41	2	W	391535	2007 RY ₃₀₀			HNW
384495	2010 CQ ₈₀				HNW	392211	2009 TG ₁₀	13.87	1.34	3-
384508	2010 CU ₁₂₃	11.85	0.35	2	W	392416	2010 MF ₅₁	4.349	0.56-0.57	2 W
384539	2010 EA ₂₁				HNW	392524	2011 QT ₄₃	5.966	0.46	2 W
384543	2010 EM ₃₉	5.837	0.27	2	W	392619*	2011 UM ₁₃	>48.	>1.	W
384547	2010 EH ₇₉	5.05	0.87	2	W	392733	2012 RN ₁₃	3.644	0.24	2 W
384617	2011 CG ₁₇				HNW	392778*	2012 TU ₁₀₅	8.69	0.88	2-
384655	2011 FG ₁₁	2.82	0.47	2	W	393260	2013 UU ₁₄	13.597	0.43	2 W
384744	2011 OY ₂₃	7.93	0.58	2	W	393439	2001 TT ₁₁₇	8.467	0.48	2 W
384794	2012 QD ₂₁				HNW	395052	2009 EO ₁	6.462	0.53	2 W
384808	2012 QX ₃₆	3.343	0.46	2	W	395289	2011 BJ ₂	7.03	0.48	2
384813	2012 QD ₅₁	3.097	0.17	2	W	395693	2012 AM ₁₁	10.481	0.64	2 W
384873	2012 SP ₄₂	7.16	0.73	2	W	396212	2013 YH ₄₂	4.216	0.43-0.49	2 W
384885	2012 SC ₆₆	8.390	0.63-0.82	2	W	396236	2014 BS ₂₉	4.988	0.27-0.46	2 W
384997	2012 TG ₂₁₈	7.33	0.26	2	W	396243	2014 BL ₃₈	5.123	0.75-0.89	2 W
385104	2012 VL ₈₀	3.02	0.69	2	W	396542	1994 UR ₅	9.150	0.75	2 W

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Planet				Planet			
Planet	Period	Variation	Note	Planet	Period	Variation	Note
396655	2002	16.078	2 W	416804	2005	3.266	2+
397006	2005	5.398	2 W	417269	2006	7.27	2+
397009	2005	2.497	N	418094*	2007	9.929	3-
397062	2005	3.559	2 W	418797	2008	7.35	2+
397353	2006	3.227	2 W	418849*	2008	2.4055	3
398004	2009	2.81	2 W	418894	2008		HNW
398188	2009	21.99	2 T	418896*	2009	4.3	2
398221	2010	19.542	2 W	419022	2009	4.840	3
399064	2013	5.93	2 W	420042	2011	2.73	1
399065	2014	17.077	2 W	420187	2011	2.578	3
399067	2014	4.95	2 W	420231	2011		HNW
399307	1991	3.4807	3 B	420539	2012	7.50	2-
399333	1999	3.029	2 W	420738	2012	3.57	2+
399374	2001	6.145	2 W	421367	2013		HNW
399417	2001	18.730	2 W	421421	2013	8.65	2
399497	2002	15.9	1 W	422433	2014	10.43	2
399525	2002	19.645	2 W	422502	2014	7.74	0.83
399663	2004	11.570	2 W	422511	2014	5.42	1+
399756	2005	17.834	2 W	422514	2014	7.16	0.58
399774	2005	3.4882	3 B	422522	2014	5.42	0.88
399792	2005	5.691	2 W	422544	2014	4.07	0.64
399979	Lewseaman	15.946	2 W	422561	2014	6.27	0.64
400172	2006	2.604	2 W	422638	1994	8.676	3
400852	2010	17.235	2 W	422699*	2000	42.484	3-
400878	2010	9.053	1 W	422868	2002		HNW
401891	2001		HNW	423122	2004	3.28	2
401998	2003	50.	1	423321	2005	17.157	0.22-0.68
402314	2005		HNW	423498	2005	5.61	0.84
402581	2006	0.9086	1 W	423702	2006		HNW
404597	2013	3.34	1+	423709	2006	4.416	1.6
405058	2001	4.8005	3	423742	2006		HNW
405427*	2004	5.203	2	423747*	2006	3.2	0.10
405697	2005	2.72	1+	423830	2006	8.73	0.70
406126	2006	8.65	2 W	423904	2006	19.88	0.5
406213	2007	8.545	2	423906	2006	3.0477	0.12
406399	2007	6.00	2-	424037	2007	6.38	0.70
408210	2013		HNW	424072	2007		HNW
408388	2013		HNW	424507	2008	1.44	0.25
408751	1987	21.0	2 A	424507	2008	2.51	0.67
408980	2002	16.21	2 A	424930	2008		HNW
409067	2003	5.93	2-	425270	2009		HNW
409204	2003	5.118	3-	425326	2010	4.16	0.83
409221	2003	11.43	1 W	425450*	2010	3.520	0.23-0.27
409410	2005		HNW	425709	2011	6.11	0.29
409557	2005	5.11	2 W	425713*	2011	6.010	0.24-0.31
410088*	2007	4.781	2	425817	2011	6.49	1.33
410195	2007	48.05	2	425929	2011	6.04	0.81
410516	2008	4.56	1	426109	2012	5.71	0.73
410650	2008		DAW	426308	2012		HNW
410777	2009	4.0	2+	426430	2013	4.21	0.85
410778	2009	8.00	2 A	426556	2013	5.08	0.79
411067	2009	4.92	2 W	426918	2013		HNW
411131	2009	4.78	2 W	426941	2013	3.49	0.48
411201	2010	11.3	2 W	426943	2013	5.45	0.70
411236	2010	8.34	1	426968	2013		HNW
411280	2010	7.79	2 A	427107	2014	3.54	0.70
412405	2014	8.35	2 W	427435	2001	8.4	0.65
413002*	1999	4.887	3	427463	2001		HNW
413038	2001	6.569	3	427592	2003		HNW
413260	2003	27.2	3	427643	2003	11.470	0.50-0.70
413516	2005	1.89	1+	427684	2004	8.962	0.30
413531	2005	6.81	2-	427781	2005		HNW
413577*	2005	4.0	2-	427952	2005		HNW
413610	2005	4.10	1 W	428030	2006		HNW
414085	2007	5.61	1+	428086	2006	U 20.	>0.8
414287	2008	42.5	2	428209	2006	7.8	0.85
414408	2009	3.68	2 W	428234	2006	2.51	0.63
414845	2010	4.92	2+	428323	2007		W
415029*	2011	1.562	1	428425	2007		HNW
415949	2001	43.5	2+	428617	2008		HNW
415992	2002	2.6366	2	428643	2008	5.61	0.77
416071	2002	17.7	2	428694	Saule	8.430	0.27
416151	2002	12.191	2+	428714	2008		HNW
416186	2002	2.8513	3	428860	2008		HNW
416224	2002	7.666	3	428883	2008	1.59	0.35
416231	2003	9.5708	N	428958	2008		HNW
416400	2003	10.61	2	429240	2010		HNW
416525	2003	5.11	2 W	429272	2010		HNW
416584*	2004	16.51	3-	429368	2010		W
416630	2004	5.78	2 W	429544	2011	8.65	0.80
				429584	2011	43.5	0.65

MINOR PLANET LIGHTCURVE PARAMETERS

Planet				Planet				
Planet	Period	Variation	Note	Planet	Period	Variation	Note	
429649	2011	<i>GU</i> ₃	N	444030	2004	<i>NT</i> ₃₃	1+	1
429675	2011	<i>HO</i> ₁	HNW	444497	2006	<i>RT</i> ₄₁	1	W
429825	2012	<i>NW</i> ₁	HNW	444569*	2006	<i>TE</i> ₄₇	1	W
430248	2013	<i>WT</i> ₁₄	HNW	444745	2007	<i>JF</i> ₄₃	2	A
430439	2000	<i>LF</i> ₆	2	445068	2008	<i>SE</i> ₂₆₈	1	I
430484	2001	<i>ST</i> ₂₄₆	2	445473	2010	<i>VZ</i> ₉₈	2	N
430544*	2002	<i>GM</i> ₂	3	446791	1998	<i>SJ</i> ₇₀	2	TO
430552	2002	<i>HU</i> ₁₁	2	446804	1999	<i>VN</i> ₆	2	NAT0
430620	2003	<i>DT</i> ₉	2	446833	2001	<i>RB</i> ₁₂	2+	
430646	2003	<i>SH</i> ₁₃₉	2	446882	2002	<i>DR</i> ₁₃	2+	HNW
430844	2005	<i>LE</i> ₈	HNW	447572	2006	<i>TN</i> ₆₆	1	W
430971	2005	<i>WL</i> ₇₈	HNW	448497*	2010	<i>KR</i> ₁₂₈	2-	W
430989	2005	<i>WX</i> ₁₇₂	HNW	448647*	2010	<i>VP</i> ₁₀₁	2-	W
431300	2006	<i>UV</i> ₃₄₅	2	448721*	2011	<i>BN</i> ₂₄	>8	>0.8
431510	2007	<i>TR</i> ₁₇₉	HNW	448972	2011	<i>YV</i> ₁₅	2.848	0.09
431530	2007	<i>TY</i> ₂₉₉	HNW	449579*	2014	<i>JD</i> ₂₄	4.49	0.67
431796	2008	<i>QR</i> ₁₈	HNW	450160	2000	<i>RM</i> ₁₂	14.51	0.31
431861	2008	<i>SA</i> ₁₀₉	HNW	450649	2006	<i>UY</i> ₆₄	2.824	0.09
432022	2008	<i>VV</i> ₄₉	HNW	450894	2008	<i>BT</i> ₁₈	2.726	0.04
432084	2008	<i>YU</i> ₁₄₂	HNW	451397	2011	<i>EZ</i> ₇₈	3.1150	0.43-0.45
432113	2009	<i>BY</i> ₁₀	HNW	452302	1995	<i>YR</i> ₁	5.006	0.23
432122	2009	<i>BF</i> ₃₂	HNW	452314	1999	<i>LN</i> ₂₈	>19	>1.0
432123	2009	<i>BV</i> ₃₄	HNW	452389	2002	<i>NW</i> ₁₆	46.7	0.65
432160	2009	<i>BS</i> ₁₅₃	HNW	452561	2005	<i>AB</i>	3.3387	0.04-0.10
432451	2010	<i>CY</i> ₇₆	HNW	455192	2000	<i>QN</i> ₁₃₀	30.33	0.3
432707	2011	<i>CE</i> ₁₇	HNW	455213	2001	<i>OE</i> ₈₄	0.4865	0.3 -0.6
432745	2011	<i>EU</i> ₁₆	HNW	455322	2002	<i>NX</i> ₁₈	9.040	0.23
432962	2012	<i>JQ</i> ₂₆	HNW	455415	2003	<i>GA</i>	5.78	1.25
433303	2013	<i>NX</i>	3-	455502	2003	<i>UZ</i> ₄₁₃	4.14	0.10
433491	2013	<i>WL</i> ₁₉	HNW	455522	2003	<i>XA</i> ₂₈	3.64	0.69
433585	2013	<i>YH</i> ₃₉	HNW	456051	2006	<i>AW</i>	53.19	0.95
433587	2013	<i>YL</i> ₄₁	HNW	456715	2007	<i>RG</i> ₂₉₂	10.74	0.12
433645	2014	<i>AD</i> ₃₇	HNW	457175*	2008	<i>GO</i> ₉₈	10.74	0.12
433818	2015	<i>BH</i> ₁₆₄	3-	457938	2009	<i>UL</i> ₁₅₄	5.58	0.91
433846	2015	<i>BM</i> ₂₆₂	1	458198	2010	<i>RT</i> ₁₁	1.75	0.15
433871	2015	<i>BE</i> ₃₀₈	2	459872*	2014	<i>EK</i> ₂₄	0.0978	0.56-1.26
433992	2000	<i>HD</i> ₇₄	2	461524	2003	<i>SS</i> ₂₆₄	5.16	0.39
434279*	2003	<i>XO</i> ₁₅	N	461646	2005	<i>EZ</i> ₂₈₀	10	0.6
434357	2004	<i>RC</i> ₃₅₀	HNW	461852	2006	<i>GY</i> ₂	2.25	0.1
434684	2006	<i>BQ</i> ₂₉	HNW	461924	2006	<i>ST</i> ₆₅	2.25	0.1
434702	2006	<i>BN</i> ₂₈₀	HNW	462238	2008	<i>CN</i> ₁	6.0555	1.04
434816	2006	<i>RH</i> ₉₂	W	462870	2010	<i>VT</i> ₉₁	4.05	1.02
435087	2007	<i>CR</i> ₁₆	HNW	462959	2011	<i>DU</i>	10.290	0.49
435116	2007	<i>DK</i> ₈₆	HNW	463380	2013	<i>BY</i> ₄₅	425	0.49
435131	2007	<i>EH</i> ₁₄₆	HNW	464149	2014	<i>YF</i> ₅	5.78	1.04
435518	2008	<i>JR</i> ₁₁	HNW	464673	2001	<i>TY</i> ₅₉	45.4	0.39
435528	2008	<i>KG</i> ₂₅	HNW	464797	2004	<i>FZ</i> ₁	36	0.38
435895	2009	<i>AN</i> ₃₀	HNW	464798*	2004	<i>JX</i> ₂₀	2.0950	0.1
436046	2009	<i>QB</i> ₁₉	HNW	465048	2006	<i>RY</i> ₄₁	6.267	0.12
436209	2009	<i>XO</i> ₁₇	HNW	465065	2006	<i>SF</i> ₁₀₇	6.267	0.12
436442	2011	<i>CR</i> ₂₅	HNW	465314	2007	<i>UQ</i> ₅₉	48.6	0.44
436485	2011	<i>EQ</i> ₂₄	HNW	465616	2009	<i>EC</i>	6.82	0.24
436508	2011	<i>FW</i> ₂₇	HNW	466508	2014	<i>GY</i> ₄₈	71.3	>1.0
436550	2011	<i>GA</i> ₇₉	HNW	467317	2000	<i>QW</i> ₇	21.80	1.16
436724	2011	<i>UW</i> ₁₅₈	3	467336	2002	<i>LT</i> ₃₈	6.48	1.28
436775	2012	<i>LC</i> ₁	3	467351	2003	<i>KO</i> ₂	15.69	0.08-0.12
437317	2013	<i>PW</i> ₂	2	467963*	2012	<i>JT</i> ₁₇	5.325	0.23-0.32
437480	2013	<i>YZ</i> ₅₀	HNW	468448	2003	<i>LS</i> ₃	12.12	0.07
437505	2013	<i>YJ</i> ₇₈	2	468738	2010	<i>TN</i> ₅₄	0.467	0.80
437548	2013	<i>YL</i> ₁₂₈	2	469219*	2016	<i>HO</i> ₃	6.88	0.49
437790	2015	<i>CP</i> ₄₀	2-	469306	1999	<i>CD</i> ₁₅₈	29.2	<0.12
437844	1999	<i>MN</i>	3	469367	2001	<i>PG</i> ₅₄	4.11	0.18
438045	2004	<i>NV</i> ₇	HNW	469372	2001	<i>QF</i> ₂₉₈	2.7909	0.09
438105	2005	<i>GO</i> ₂₂	2	469438	2002	<i>GV</i> ₃₁	20	0.05
438341	2006	<i>QX</i> ₁₂₃	2	469466	2002	<i>RR</i> ₆₀	16.39	0.34
438429	2006	<i>WN</i> ₁	2+	469513	2003	<i>QR</i> ₇₉	9.65	0.31
438430*	2006	<i>WL</i> ₃	2	469514	2003	<i>QA</i> ₉₁	11.99	0.29
438473	2007	<i>EZ</i> ₇₄	2	469581	2003	<i>YU</i> ₃₅	2.582	0.50-2.0
439454	2013	<i>YO</i> ₈	2	469615	2004	<i>PT</i> ₁₀₇	2.582	0.50-2.0
439492	2013	<i>YY</i> ₁₄₇	2	469634	2004	<i>SZ</i> ₁₉	2.582	0.50-2.0
439501	2014	<i>AR</i> ₄₂	2	469705	2005	<i>EF</i> ₂₉₈	2.582	0.50-2.0
439854	1998	<i>XA</i> ₅	2	469708	2005	<i>GE</i> ₁₈₇	2.582	0.50-2.0
441825	2009	<i>SK</i> ₁	2+	469847	2005	<i>TJ</i> ₁₀₈	2.582	0.50-2.0
441987*	2010	<i>NY</i> ₆₅	3	469896	2005	<i>WC</i> ₁	2.582	0.50-2.0
442037	2010	<i>PR</i> ₆₆	3	469923	2005	<i>YZ</i> ₁₉₁	2.582	0.50-2.0
442243	2011	<i>MD</i> ₁₁	3	469987	2006	<i>HJ</i> ₁₂₃	11.48	0.13
442559	2012	<i>AU</i> ₁₀	2	470026	2006	<i>RD</i> ₁₀₂	6.11	0.30
443103	2013	<i>WT</i> ₆₇	2	470308	2007	<i>JH</i> ₄₃	32.26	1.00-1.12
443837	2000	<i>TJ</i> ₁	3-	470344	2007	<i>RV</i> ₁₆₂	32.26	1.00-1.12
443880	2001	<i>UZ</i> ₁₆	3-	470510*	2008	<i>CJ</i> ₁₁₆	32.26	1.00-1.12

MINOR PLANET LIGHTCURVE PARAMETERS

Planet	Period	Variation	Note	Planet	Period	Variation	Note
470599* 2008 OG ₁₉	2.4	0.08	N	498676* 2008 SP ₁₈₇			HNW
470998 2009 SX ₁₄₂			HNW	498827* 2008 VC ₃₉			HNW
471002 2009 SN ₁₇₀			HNW	498910* 2009 AS ₃₀			HNW
471137 2010 ET ₆₅	7.88	0.13	1+	499366* 2009 YO ₂₁			HNW
471143 2010 EK ₁₃₉	7.07	0.12	2	499703* 2011 AA ₈	5.42	0.66	1 W
471165 2010 HE ₇₉	19.49	0.11	2-	499764* 2011 CJ ₃	4.25	0.48	1 W
471240 2011 BT ₁₅	0.10914	0.61	3	499795* 2011 CT ₇₂	5.05	0.92	2 W
471241 2011 BX ₁₈	4.828	0.27-0.32	2+	499824* 2011 DE ₁₉	3.20	0.18	1+ W
471248 2011 BG ₈₉			HNW	500080* 2011 WV ₁₃₄	10.105	0.23-0.28	3
471545 2012 KC ₁₃			HNW	500119* 2012 BV ₁₃₇	20.22	0.99	1 DAW
471956 2013 SC ₂₅	12.96	0.72	3-	500853* 2013 HT ₁₂₀	5.68	1.05	1 DAW
472152 2014 DA ₁	3.71	0.24	2 W	501307* 2013 WD ₇₄			HNW
472565 2015 DR ₇₃	2.89	0.72	2 W	501483* 2014 CU ₂	4.21	0.35	2 W
474158 1999 FA	10.092	1.2	3 T-	501494* 2014 DV ₁	3.95	0.45	2 W
474163 1999 SO ₅	1.380	0.73	3	501949* 2014 YV ₃	11.70	0.60	1 DAW
474179* 1999 VS ₆	16.91	0.51	2	501962* 2014 YZ ₁₅	5.78	0.72	1+ W
474231* 2001 HZ ₇	65.	0.35	2-	501963* 2014 YJ ₁₆	2.65	0.24	2 W
474717 2005 JA ₅₅			HNW	502020* 2015 AZ ₈₀	7.74	0.70	1 DAW
474968 2005 TL ₆₁	7.68	0.29	2 W	502032* 2015 AA ₁₁₈	5.25	0.88	1 W
475467 2006 SL ₈₁	13.17	0.87	2 W	502161* 2015 BV ₅₃	19.20	0.45	1+ DAW
475592 2006 UE ₆₀			HNW	502617* 2015 CU ₂₂	5.75	0.78	2 W
475665 2006 VY ₁₃	17.507	0.89-1.39	3-	503293* 2016 AA ₉	8.80	0.30	3-
475979* 2007 PM ₄	>2.0	>0.45		503911* 2002 FD ₆	2.799	0.16-0.2	1
477162 2009 ES	28.0	0.33	2 B?	503941* 2003 UV ₁₁	18.25	0.27	3-
477230* 2009 RW ₆	>1.0	>0.61	N	504119* 2006 RF ₄₂	2.590	0.10	1+ W
477240 2009 RW ₄₂	3.65	0.45	2 W	504458* 2008 CZ ₁₈₉	4.49	0.66	3- W
477327 2009 TB ₈	15.38	0.20	2-	504505* 2008 MH ₁	5.315	0.30	2+
477495 2010 CH ₅₆	7.38	0.55	2 W	504541* 2008 SP ₉₅			HNW
477762 2010 XZ ₆₇	15.04	0.21	2-	504746* 2009 WJ ₂₅	11.71	0.80	2 W
477798 2011 CM ₆₇			HNW	505017* 2011 QU ₂			HNW
478427 2012 HE ₂₁			HNW	505518* 2013 YO ₉	5.55	0.67	2 W
479325 2013 TV ₅	0.8367	0.42	3	505524* 2013 YU ₂₄			HNW
479350 2013 WZ ₉₁			HNW	505657* 2014 SR ₃₃₉	8.729	0.93	3-
479424 2013 YV ₈₂	8.21	0.61	2 W	505667* 2014 UV ₃₃	18.83	1.15	3
479466 2013 YB ₁₄₀	5.61	0.81	2 W	506459* 2002 AL ₁₄	2.3088	0.35	N
479496 2014 AN ₄₂	7.80	0.42	2 W	507297* 2011 KB ₃₁			HNW
479600 2014 DZ ₈	5.03	0.37	2 W	507366* 2011 XO ₃	9.117	1.11	3-
480004 2014 KD ₉₁	2.829	0.15-0.18	3	507767* 2013 YG ₁₀₃			HNW
481457 2006 XD ₂	3.700	0.87-0.94	3	508011* 2015 BB ₃₁₃	2.86	0.41	1+ W
481532 2007 LE	2.603	0.15	3 B	508084* 2015 DT ₈₆	5.89	0.92	2 W
482250 2011 LL ₂	0.1032		N	508869* 2002 VT ₁₃₀			0.21-0.21 HNB
482470 2012 PA ₂₆			HNW	508871* 2003 CN ₁₇	12.998	0.75	3-
482650 2013 BK ₁₈	4.690	0.34	3-	508912* 2004 BB	5.720	0.07-0.10	2 A
482796 2013 QJ ₁₀	14.5	0.10	2-	509792* 2008 UK ₂₄₂	3.78	0.41	2 W
483508* 2003 CR ₁	26.32	1.35	2+	509936* 2009 QT ₁₉			HNW
483656* 2005 ES ₇₀	1.69	0.55	2	509949* 2009 SN ₂₀			HNW
484402 2007 XH ₁₆	3.6342	0.35-0.54	2	509971* 2009 SS ₃₃₃			HNW
484673* 2008 UM ₁₀₃	19.4	0.60	2-	509984* 2009 UT ₄₉			HNW
484795 2009 DE ₄₇	5.987	0.24-0.41	3	509990* 2009 US ₁₁₃			HNW
484976 2009 UN ₃	4.123	0.40-0.70	3	511112* 2013 WC ₁₄			HNW
485652 2011 WO ₄₁	4.609	0.14	2 A	511117* 2013 WK ₄₆			HNW
488453* 1994 XD	2.7365	0.08	3-	511137* 2013 XM ₂₄	37.9	0.80	2 T
488515* 2001 FE ₉₀	0.4777	0.80-2.13	3 p	511155* 2013 YR ₃₉	3.90	0.79	2 W
488790* 2004 XP ₇₅	16.55	0.45	2 W	511171* 2013 YM ₆₂	8.57	0.42	2 W
488828* 2005 OU ₂₆			HNW	511250* 2014 BD ₄₇	5.78	0.65	2 W
489258* 2006 RB ₉₃	17.26	0.3	1 W	511684* 2015 BN ₅₀₉	5.683	0.81-1.01	3
489337* 2006 UM	5.3480	0.82-1.18	3	511777* 2015 EZ	6.57	0.16	2 A
490581* 2009 WZ ₁₀₄	19.304	0.52	2 AT0	513165* 2004 CK ₃₉	5.631	0.69	3
491565* 2012 QF ₄₉	2.482	0.03-0.05	2	513181* 2005 BS ₂₇	6.602	0.68	3-
492240* 2013 TT ₁₁₄			HNW	513550* 2010 NG ₃	4.229	0.33	2+
494658* 2000 UG ₁₁	4.44	0.10	3 RB	513603* 2011 FX ₁₅₂			HNW
494706* 2005 GL ₉	5.131	0.24-0.25	3	513723* 2012 TK ₄₄	3.36	0.54	2 W
494782* 2006 SX ₁₁₇			HNW	513917* 2014 AF ₅₃	5.36	0.72	2 W
495102* 2011 UU ₁₀₆	1.850	0.06	1+	513927* 2014 CD ₂₂	4.00	0.37	2 W
495331* 2014 KF ₉₁	18.954	0.80	3-	514059* 2014 OZ ₃₅₂	2.98	0.54	2 W
495453* 2014 TE ₂₁	2.57	0.68	2 W	514596* 2003 FG	8.692	1.4	3
496018* 2008 NU	6.47	0.22	2+	514835* 2008 CO ₉₁			HNW
496174* 2011 CQ ₄	128.	0.19	2-	515082* 2010 TM ₃	0.04308	0.55	1
496296* 2013 BB ₇₁			HNW	515463* 2013 YR ₆₂	6.27	0.86	2 W
496816* 1989 UP	6.98	1.16	3	516154* 2016 CL ₃₂	11.181	1.57	3
496817* 1989 VB	16.	>0.32	2 T0	516264* 2016 VC	>2.4	>0.40	
496818* 1993 RA	5.64	0.13	2				
496923* 2001 UW ₅₇	2.02	0.09	1-				
497176* 2004 TQ ₁₃	60.52	0.63	2+				
497258* 2005 JO ₇			HNW				
497438* 2005 XJ ₁₀₀			HNW				
497445* 2005 YQ ₂₁			HNW				
497646* 2006 RW ₄₁	1.5421	0.15	1 W				
497876* 2006 UO ₂₁₃	11.23	0.55	2-				
498325* 2007 VC ₁₈₂			HNW				

Notes. 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- An 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.