

AMBIGUOUS PERIODS OF LIGHTCURVES

Asteroid	Note	Per ₁	Amp ₁	Per ₂	Amp ₂	Per ₃	Amp ₃	Per ₄	Amp ₄	Reference
199 Byblis	A A	5.2201 5.221	0.15 0.08	10.444	0.09					Klinglesmith, 14
227*Philosophia	A A A	52.98 52.98 26.48	0.20 0.15 0.12	26.48 52.955	0.15 0.12					Pilcher, 14 Pilcher, 14
393 Lampetia	A A	38.7 38.7	0.14 0.14	19.35	0.14					Scaltriti, 79
421 Zähringia	A A	6.42 6.42	0.12 0.10	12.86	0.10					Warner, 10
634 Ute	A A	11.7554 11.7554	0.17 0.17	23.51	0.17					Pilcher, 09
676 Melitta	A A	7.87 16.767	0.20 0.08	8.393	0.08	12.420				Ferrero, 13
684 Hildburg	A A	15.89 15.89	0.23 0.22	11.92	0.22					Ferrero, 14
688 Melanie	A A	18.87 16.10	0.14 0.09	14.74	0.09					Violante, 12
702*Alauda	AB O I I	8.3531 8.36 8.348 8.3539 16.7043 8.3531 16.7025	0.16 0.10 0.09 0.09 0.09 0.10 0.12							Harris, 83 Fauerbach, 05 Benishek, 08 Behrend, 09w Rojo, 11 Masiero, 12 Ali-Lagoa, 13 Alkema, 14 Behrend, 14w
730 Athanasia	A A	5.7345 5.7345	0.14 0.14	8.6016	0.14					Pilcher, 13
788*Hohensteina	A A A	29.94 29.94 33.02	0.18 0.10 0.18	40.87 43.49	0.10 0.17					Stephens, 15 Oey, 16
862 Franzia	A A A	7.52 7.65 15.05	0.22 0.10 0.12	15.27 7.6	0.10 0.12					Warner, 10 Warner, 05
903 Nealley	A A A	21.60 19.72 19.58	0.15 0.15 0.15	21.52 21.52	0.15 0.15					Warner, 12 Warner, 12
938 Chlosinde	A A	19.204 19.204	0.16 0.16	13.72	0.16					Stephens, 11
995 Sternberga	A NA	14.612 22.404	0.20 0.12	11.201	0.12					Marciniak, 14
1030 Vitja	A A	5.7014 6.332	0.21 0.21	5.590	0.21	7.29				Ferrero, 14
1060 Magnolia	A A	2.9107 2.910	0.32 0.08	5.821	0.08					Strabla, 13
1145 Robelmonte	A A	9.01 9.01	0.18 0.18	8.95	0.18	20.61				Gartrelle, 12
1238 Predappia	1A 1A	8.94 8.94	0.05 0.03	17.89	0.03					Warner, 06
1266 Tone	A A	7.40 7.40	0.12 0.06	14.8	0.06					Warner, 10
1325 Inanda	A A	20.52 20.52	0.12 0.12	35.83	0.12					Warner, 08

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1373*Cincinnati	A 3	5.28 5.28 5.25 4.930	0.19 0.14 0.19 0.11							Warner, 05 Behrend, 04w Warner, 11
1374 Isora	A A	36.699 36.699	0.2 0.12	18.35	0.12					Stephens, 14
1465 Autonoma	1A 1A	4.88 4.88	0.14 0.13	9.76	0.13					Brinsfield, 08
1565 Lemaître	A A	11.403 11.403	0.04 0.04	22.805	0.04					Warner, 08
1629 Pecker	A A	8.2166 8.2166	0.08 0.08	12.325	0.08	16.433	0.08			Pravec, 06w
1928 Summa	A A	6.8549 6.855	0.18 0.13	5.987	0.04					Owings, 13
1947 Iso-Heikkilä	NA NA	5.0158 5.0158	0.35 0.35	3.2895	0.23	6.3792	0.39			Galad, 10
2020*Ukko	A A	25.478 25.478	0.24 0.24	12.733	0.24	38.154	0.24			Pilcher, 15
2023 Asaph	A A	3.87 3.87	0.06 0.05	6.28	0.05					Warner, 10
2037 Tripaxepetalis	A A	2.33 2.33	0.10 0.10	2.23	0.10					Galad, 08
2067 Aksnes	A A	17.75 17.75	0.24 0.24	8.86	0.24					Dahlgren, 98
2146 Stentor	A A	35.14 35.14	0.09 0.09	17.6	0.09					French, 13
2221 Chilton	A A	7.445 7.445	0.20 0.20	8.63						Sada, 06
2599 Veselí	A A	18.54 18.54	0.33 0.33	13.25	0.33					Bolt, 07
2651 Karen	A A	6.3227 6.3227	0.25 0.25	12.7	0.25	9.5				Bembrick, 07
2696 Magion	AT0 AT?	480. 480.	0.31 0.31	350.	0.32					Galad, 09
2948 Amosov	A A	7.3996 7.3996	1.2 1.2	6.4106	1.2	8.754				Galad, 08
2972*Niilo	4A 4A	8.592 8.592	0.12 0.12	4.296	0.12					Pravec, 15w
2986 Mrinalini	A A	15.9 15.9	0.2 0.2	11.9	0.2					Galad, 09
3253 Gradie	A A	6.293 6.293	0.54 0.54	5.915	0.54	6.760				Wisniewski, 97
3552 Don Quixote	A A	7.7 7.7	0.57 0.57	6.65	0.57					Weidenschilling, 90
3561*Devine	A A	4.376 4.376	0.08 0.08	5.354	0.08					Stephens, 16
3782 Celle	AB A	3.84 3.8389	0.15 0.12	3.9419	0.12					Bowens-Rubin, 14
3855 Pasasymphonia	A A	6.5131 6.5131	0.18 0.18	7.542	0.18					Pravec, 09w
3872 Akirafujii	A A	10.635 10.635	0.35 0.35	5.321	0.35					Clark, 07
4015 Wilson-Harrington	A AT?	3.5736 3.5736	0.2 0.10	7.1496	0.10					Urakawa, 11

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Asteroid	Note	Per ₁	Amp ₁	Per ₂	Amp ₂	Per ₃	Amp ₃	Per ₄	Amp ₄	Reference
4171 Carrasco	A A	33.53 33.53	0.22 0.22	16.77	0.22					Pravec, 09w
4436 Ortizmoreno	A A	8.24 8.24	0.40 0.09	16.4	0.09					Warner, 13
5401*Minamioda	A A	3.949 3.949	0.11 0.11	7.897	0.11					Marchini, 16
5479 Grahamryder	A A	7.60 7.60	0.30 0.30	11.12	0.30					Galad, 10
5535 Annefrank	A A	15.12 15.12	0.25 0.25	12.	0.25	22.8				Schmidt, 07
5771 Somerville	A A	9.20 9.20	0.80 0.80	7.7	0.80					Warner, 12
6037 1988 EG	A A	2.760 2.760	0.2 0.20	2.919	0.22					Pravec, 98w
6053*1993 BW ₃	A A	2.573 2.873	0.51 0.07	2.556	0.08					Warner, 15
6153 Hershey	A A	6.094 6.094	0.06 0.06	8.174	0.14					Higgins, 06
6405 Komiyama	A A	19.855 19.855	0.13 0.13	9.929	0.13					Pravec, 09w
6455 1992 HE	A A	2.736 5.471	0.21 0.10	2.739	0.11					Pravec, 02w
6901 Roybishop	AB? A	4.682 4.694	0.07 0.07	7.857	0.03					Warner, 15
6984*Lewis Carroll	A A	24.65 24.65	0.16 0.16	48.85	0.12	12.19	0.12			Stephens, 16
7559 Kirstinemeyer	A A	5.475 5.475	0.05 0.05	10.971	0.05					Oey, 12
7757 Kameya	A A	5.98 5.98	0.11 0.11	7.96	0.11	11.94	0.11			Warner, 05
8021 Walter	A A	4.84 4.84	0.07 0.07	9.68	0.07					Warner, 09
8034 Akka	A A A	7.283 3.6377 7.283	0.52 0.52 0.46	7.283 3.6377	0.52 0.46					Pravec, 98 Wisniewski, 97
8348 Bhattacharyya	A A	19.60 19.58	0.10 0.10	39.83	0.10					Warner, 13
8404 1995 AN	A A	4.612 4.612	0.16 0.16	3.204	0.09					Warner, 09
8463*Naomimurdoch	A 1A	3.74 3.74	0.17 0.17	7.50	0.17					Benishek, 16
8928 1996 YH ₂	A A	2.5689 2.5689	0.07 0.07	3.85	0.07					Pravec, 14w
10187 1996 JV	A A	21.676 21.676	0.10 0.10	10.838	0.10					Pravec, 11w
10227 Izanami	A A	2.920 2.920	0.16 0.16	7.422	0.16	3.327		3.836		Galad, 08
10731 1988 BL ₃	A A	28.02 28.02	0.41 0.23	17.72	0.20					Pray, 11w
10936 1998 FN ₁₁	A A A	25.70 17.3 25.70	0.28 0.35 0.28	26.2 17.00	0.35 0.28					Warner, 08 Warner, 11
11574 d'Alviella	A A	12.549 12.549	0.15 0.15	25.10	0.15					Higgins, 07

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Asteroid	Note	Per ₁	Amp ₁	Per ₂	Amp ₂	Per ₃	Amp ₃	Per ₄	Amp ₄	Reference
11789 Kempowski	AT0 A	48.6 48.6	0.45 0.45	24.1	0.40					Warner, 09
12538 1998 OH	A A	5.833 5.833	0.12 0.12	2.914	0.11					Warner, 15
12815 1996 DL ₂	A A	15.8 15.8	0.5 0.5	11.9	0.5					Galad, 09
12920*1998 VM ₁₅	A A	9.0511 9.0511	0.31 0.19	12.885	0.31					Clark, 15
13503*1988 RH ₆	AW A	6.9 6.9	0.23 0.23	13.8	0.23					Polishook, 12
13573 1993 FZ ₁₈	A A	3.06 3.06	0.07 0.07	6.12	0.07					Warner, 13
13921 Sgarbini	A A	3.679 3.679	0.12 0.12	7.358	0.12					Pravec, 06w
14431 1992 DX ₈	A A	9.222 9.222	0.26 0.26	6.589	0.26	7.636		7.726		Galad, 08
14728 Schuchardt	A A	4.636 4.636	0.9 0.9	5.6	0.9					Galad, 08
15786 1993 RS	A A	6.82 6.82	0.21 0.14	5.97	0.15	4.78				Warner, 15
15874 1996 TL ₆₆	1A 1A	12. 12.	0.07 0.07	8.04	0.07	6.				Thirouin, 10
15914 1997 UM ₃	A A	12.8 12.8	0.5 0.5	8.5	0.5					Galad, 09
16813*1997 UT ₆	AW A	8.7684 8.293	0.25 0.24	7.880	0.24					Hayes-Gehrke, 15
16960 1998 QS ₅₂	A A	5.789 5.789	1.40 0.24	2.900	0.24					Warner, 09
17633 1996 JU	A A	6.2098 6.20	0.23 0.21	3.10	0.21					Warner, 14
19308 1996 TO ₆₆	A A	7.92 7.92	0.26 0.26	3.96		4.80		5.9		Sheppard, 03
19309 1996 UK ₁	A A	5.21 5.21	0.06 0.06	4.16	0.06	5.91				Galad, 08
19537 1999 JL ₈	AT0 A	50.1 50.1	0.10 0.10	25.2	0.10					Warner, 12
21321 1997 AN ₂	A A	13.92 13.92	0.11 0.11	6.96	0.11					Warner, 14
22195 Nevadodelruiz	A A	14.56 14.56	0.19 0.19	9.07	0.19					Warner, 09
22753 1998 WT	A A	10.24 10.24	0.11 0.11	13.05	0.16					Galad, 05
24443 2000 OG	A A	4.069 4.069	0.11 0.11	4.904	0.10					Warner, 15
24819 1994 XY ₄	A A	27.73 27.73	0.04 0.04	57.57	0.09					Warner, 08
24835 1995 SM ₅₅	2A 2A	8.08 8.08	0.19 0.19	4.04	0.19					Sheppard, 03
25318*1999 CH ₁₂	A A	15.80 15.80	0.09 0.09	7.93	0.11					Stephens, 15
25458 1999 XT ₁₃	A A	3.6594 3.6594	0.30 0.30	1.829	0.30					Pravec, 06w
26093 1987 UA ₁	A A	3.3186 3.3186	0.10 0.10	6.637	0.10					Pravec, 12w

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26227 1998 HJ ₇	A A	22.07 22.07	0.15 0.15	11.03	0.16					Warner, 14
27529 2000 HJ ₆₄	A A	4.1290 4.1290	0.51 0.51	4.1570	0.49					Galad, 07
30613 2678 P-L	A A	10.13 10.13	0.4 0.4	10.66	0.4					Galad, 08
31076 1996 XH ₁	AT0 A	350. 350.	0.17 0.17	700.	0.17					Warner, 10
32257 2000 OW ₅₂	A A	11.413 11.413	0.20 0.20	6.6990	0.26	21.785	0.26			Galad, 10
33128 1998 BU ₄₈	A AN	12.6 12.6	0.68 0.68	9.8	0.68					Sheppard, 02
33816 2000 AL ₄₂	AT0 A	193. 193.	0.12 0.12	390.	0.12					Warner, 10
35671 1998 SN ₁₆₅	A A	8.84 8.84	0.16 0.16	8.70	0.16					Lacerda, 06
35774 1999 JL ₉	NA NA	7.860 7.860	0.15 0.15	2.1312	0.23	22.11	0.17			Galad, 10
36379 2000 OA ₂₄	A A	3.21 3.21	0.15 0.15	3.01	0.15	3.44				Galad, 08
39132 2000 WU ₅₈	A A	20.663 20.663	0.69 0.69	14.439	0.60	36.31	0.62			Galad, 10
39828 1998 BH ₄	A A	14.2 14.2	0.13 0.13	19.4	0.13					Galad, 10
41467 2000 OG ₂₉	A A	6.8 6.8	0.80 0.80	10.0	0.80	14.5				Warner, 10
42306 2001 VU ₄₆	NA NA	2.3651 2.3651	0.20 0.20	2.2537	0.20					Galad, 10
44534*1998 YZ ₉	ADTOW AD	45.0 45.0	0.75 0.75	22.5	0.75					Polishook, 12
44594 1999 OX ₃	1A 1A	9.26 9.26	0.11 0.11	13.4	0.11	15.45				Thirouin, 12
45646 2000 EE ₄₅	A A	5.26 5.26	0.41 0.41	5.08	0.41	5.47				Warner, 11
45878 2000 WX ₂₉	A A	16.07 16.07	0.05 0.05	8.03	0.05					Warner, 09
46829*1998 OS ₁₄	NAB NA	2.6236 2.6236	0.12 0.12	5.2483	0.12					Pravec, 15
47035 1998 WS	A A 1A	3.99 3.997 3.995	0.15 0.13 0.10	7.994 7.98	0.13 0.10					Skiff, 12w Warner, 12
48147 2001 FO ₁₆₀	A A	26.17 26.17	0.25 0.25	13.09	0.25					Warner, 10
48436 1989 VK	A A	5.45 5.45	0.31 0.31	4.91	0.31	6.12				Galad, 08
50573 2000 EX ₃₉	A A	3.9789 3.9789	0.19 0.19	4.0015	0.19					Galad, 09
51356 2000 RY ₇₆	AB A	2.5572 2.5572	0.09 0.09	5.1143	0.09					Warner, 13
51371 2000 XF ₁₅	AT0 A	54. 54.	0.09 0.09	112.	0.09					Warner, 13
52317 1992 BC ₁	A A	34.07 34.07	0.11 0.11	17.03	0.11					Stephens, 14

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52762 1998 <i>MT</i> ₂₄	A A	12.08 12.08	0.4 0.27	4.82	0.27	6.04				Hicks, 13
52872* <i>Okyrhoe</i>	A A	9.72 9.72	0.4 0.07	4.86	0.02	9.72	0.02	12.16	0.02	Thirouin, 10
55565 2002 <i>AW</i> ₁₉₇	1A 1A	8.86 8.86	0.08 0.08	17.74	0.08					Ortiz, 06
55636 2002 <i>TX</i> ₃₀₀	A A 1A A	8.12 15.78 8.12 8.15	0.09 0.09 0.08 0.05	8. 12.101 11.7	0.09 0.08 0.05	12.	0.09	16.	0.09	Ortiz, 04 Sheppard, 03 Thirouin, 12
55637 2002 <i>UX</i> ₂₅	HAB A	14.382 14.382	0.21 0.21	7.1908	0.21	16.782	0.21			Rousselot, 05
55638 2002 <i>VE</i> ₉₅	1A 1A A	6.76 6.76 9.97	0.08 0.08 0.05	9.47 4.90	0.08 0.05	7.36 6.18	0.08	17.32		Ortiz, 06 Thirouin, 10
56367 2000 <i>EF</i>	AT0 A	98. 98.	0.8 0.8	84.	0.8	111.				Galad, 10
57252 2001 <i>QS</i> ₉₆	NA NA	11.427 11.427	0.30 0.30	7.209	0.36	10.310	0.41	22.854	0.30	Galad, 10
58673 1997 <i>YA</i> ₉	NA NA	9.731 9.731	0.52 0.52	6.918	0.47	19.365	0.71			Galad, 10
62781 2000 <i>UE</i> ₂₃	NA NA	28.94 28.94	1.1 1.1	17.95	0.8	71.7	1.1			Galad, 10
63029 2000 <i>WH</i> ₅₇	NA NA	8.693 8.693	0.19 0.19	2.2667	0.25	13.641	0.19			Galad, 10
63376 2001 <i>HA</i> ₃₈	NA NA	9.439 9.439	0.14 0.14	2.0122	0.17	9.735	0.14			Galad, 10
63508 2001 <i>OQ</i> ₈₁	A A	3.63 3.63	0.2 0.2	4.35	0.2					Galad, 08
65200 2002 <i>CL</i> ₂₉₄	NA NA	2.4206 2.4206	0.48 0.48	6.461	0.38					Galad, 10
65597*3047 <i>T-3</i>	A A	7.6 7.6	0.14 0.14	3.5	0.14					Warner, 16
68480 2001 <i>TQ</i> ₄₉	NA NA	2.6982 2.6982	0.40 0.40	4.4044	0.39	17.246	0.32			Galad, 10
69350 1993 <i>YP</i>	AT? AT?	31.79 32.34	0.95 0.95	99.5	0.95					Warner, 12
72290 2001 <i>BQ</i> ₁₅	A A	5.6657 5.6657	0.81 0.81	5.067	0.81	6.420				Galad, 08
73480 2002 <i>PN</i> ₃₄	A A	8.45 8.45	0.18 0.18	10.22	0.18					Ortiz, 03
79530 1998 <i>QD</i> ₄	NA NA	24.51 24.51	0.20 0.20	2.9623	0.20	12.117	0.20			Galad, 10
79983 1999 <i>DF</i> ₉	A A	6.65 6.65	0.40 0.40	9.00	0.40					Lacerda, 06
83982 <i>Crantor</i>	A A	13.94 13.94	0.14 0.14	19.34	0.14					Ortiz, 03
84890 2003 <i>NP</i> ₉	A A	19.2 19.2	0.07 0.07	38.5	0.07					Warner, 12
85713 1998 <i>SS</i> ₄₉	A A	5.370 5.370	0.18 0.18	2.686	0.18					Warner, 15
86039 1999 <i>NC</i> ₄₃	AT? NA AT?	34.49 34.49 34.29	1.1 1.1 1.00	122.3 40.81	1.1 1.10					Pravec, 00w Warner, 14

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86326 1999 <i>WK</i> ₁₃	A A	6.36 6.36	0.14 0.14	3.18	0.12					Warner, 15
86819 2000 <i>GK</i> ₁₃₇	A A	3.0239 3.018	0.27 0.12	4.03	0.23					Warner, 15
88005 2000 <i>UR</i> ₄₄	NA NA	15.524 15.524	0.27 0.27	11.726	0.26	22.958	0.26			Galad, 10
89891 2002 <i>CQ</i> ₂₅₆	NA NA	2.2512 2.2512	0.34 0.34	8.258	0.31	16.629	0.31			Galad, 10
90337 2003 <i>FQ</i> ₉₇	A A	60. 6.88	0.54 0.15	9.66	0.19					Melita, 10
90377 Sedna	A A	10.273 10.273	0.02 0.02	17.991	0.02					Gaudi, 05
90416*2003 <i>YK</i> ₁₁₈	A A	43.58 43.58	0.13 0.13	21.69	0.08					Warner, 15
96178 Rochambeau	A A	5.2 5.2	0.14 0.14	13.4	0.14					Galad, 10
101812 1999 <i>JD</i> ₇	NA NA	7.420 7.420	0.22 0.22	2.47433	0.24	9.354	0.22			Galad, 10
103501 2000 <i>AT</i> ₂₄₅	1A 1A	29.95 29.95	0.16 0.16	44.60	0.16	59.85		62.42		Warner, 10
106206 2000 <i>UR</i> ₂₉	A A	7.317 7.317	0.04 0.04	4.875	0.04	9.747		10.844		Pravec, 14w
106590 2000 <i>WQ</i> ₁₀₇	NA NA	21.67 21.67	0.16 0.16	2.77757	0.19					Galad, 10
110634 2001 <i>TY</i> ₁₆₅	NA NA	4.9311 4.9311	0.26 0.26	2.75308	0.29					Galad, 10
110755 2001 <i>UT</i> ₁₃	NA NA	46.9 46.9	0.80 0.80	49.0	0.75					Galad, 10
112985*2002 <i>RS</i> ₂₈	A	4.787 5.94 3.820 4.787 3.436	0.24 0.06 0.24 0.09 0.08							Warner, 15 Warner, 16 Warner, 16 Carbognani, 16
119574 2001 <i>VT</i> ₉₀	NA NA	2.9245 2.9245	0.24 0.24	43.40	0.24					Galad, 10
120061 2003 <i>CO</i> ₁	DA DA	10.0 10.0	0.10 0.10	6.30	0.13	4.99	0.10			Ortiz, 06
120347 Salacia	1AB 1A	6.09 6.09	0.2 0.03	8.1	0.03	12.18		16.02		Thirouin, 10
120928 1998 <i>SP</i> ₁₀₉	A A	10.7 10.7	0.5 0.5	8.8	0.5					Galad, 10
124135 2001 <i>LS</i>	NA NA	3.6217 3.6217	0.17 0.17	5.4315	0.22					Galad, 10
125136 2001 <i>UY</i> ₆₁	NA NA	2.94565 2.94565	0.23 0.23	11.596	0.14					Galad, 10
125779 2001 <i>XL</i> ₁₄₅	NA NA	11.251 11.251	0.28 0.28	2.57199	0.29	7.655	0.28			Galad, 10
128018 2003 <i>JA</i> ₁₄	NA NA	8.083 8.083	0.36 0.36	4.8539	0.34	12.192	0.31			Galad, 10
128343 2004 <i>GQ</i> ₅	NA NA	2.4776 2.4776	0.25 0.25	4.2251	0.19	26.53	0.30			Galad, 10
136472 Makemake	A 1A 1A	22.48 11.24 7.65	0.03 0.03 0.01	22.48 11.5	0.03 0.01					Ortiz, 07 Thirouin, 10
137032 1998 <i>UO</i> ₁	A A	2.925 2.925	0.16 0.10	3.934	0.10					Warner, 15

AMBIGUOUS PERIODS OF LIGHTCURVES

Asteroid	Note	Per ₁	Amp ₁	Per ₂	Amp ₂	Per ₃	Amp ₃	Per ₄	Amp ₄	Reference
137170 1999 <i>HF</i> ₁	AB A	2.3192 2.566	0.26 0.22	2.7109	0.22	2.3189				Sonka, 14
137925*2000 <i>BJ</i> ₁₉	A A	48. 48.	0.17 0.17	24.	0.17					Warner, 15
138524 2000 <i>OJ</i> ₈	A A	2.6835 2.6835	0.06 0.06	5.3673	0.06					Pravec, 11w
138971*2001 <i>CB</i> ₂₁	A A	3.3020 3.3020	0.19 0.19	4.953	0.19					Galad, 05
142781 2002 <i>UM</i> ₁₁	A A	6.81 6.81	0.03 0.03							Warner, 14
143678 2003 <i>SA</i> ₂₂₄	NATO NA TO	35. 35.	0.24 0.24							Pravec, 06w Pravec, 14
145452 2005 <i>RN</i> ₄₃	1A 1A A	6.95 5.62 6.95	0.06 0.04 0.06	7.32 13.89	0.04 0.06	9.73		19.46		Thirouin, 10 Benecchi, 13
145486 2005 <i>UJ</i> ₄₃₈	A A	8.32 8.32	0.13 0.13	4.16	0.13					Thirouin, 10
149182 2002 <i>JX</i> ₆₉	NA NA	2.8950 2.8950	0.30 0.30	3.2926	0.30					Galad, 10
150642 2001 <i>CZ</i> ₃₁	A A	4.71 4.71	0.21 0.21	5.23	0.21					Lacerda, 06
151057 2001 <i>VO</i> ₁₄	NA NA	20.631 20.631	0.6 0.6	36.20	0.6					Galad, 10
153695 2001 <i>US</i> ₃₅	NA NA	18.61 18.61	0.34 0.34	4.0108	0.39	30.43	0.33			Galad, 10
153822 2001 <i>WH</i> ₃₇	NA NA	5.6388 5.6388	0.18 0.18	7.373	0.20					Galad, 10
153879 2001 <i>XY</i> ₁₄₁	NA NA	2.3455 2.3455	0.13 0.13	4.6939	0.18					Galad, 10
153937 2001 <i>YG</i> ₉₇	NA NA	16.313 16.313	0.22 0.22	3.6951	0.18					Galad, 10
156751 2002 <i>XL</i> ₉₂	A A	6.5287 6.5287	0.85 0.85	5.7470	0.85					Galad, 10
159533 2001 <i>HH</i> ₃₁	A A	3.660 3.660	0.11 0.11	7.317	0.10					Warner, 15
160264 2002 <i>RF</i> ₆₄	A A	11.45 11.45	0.8 0.8	16.83	0.8					Galad, 08
160318 2003 <i>JR</i> ₈	NA NA	21.83 21.83	0.24 0.24	4.0945	0.28					Galad, 10
188174 2002 <i>JC</i>	A A	2.472 2.746	0.4 0.26	2.470	0.25					Warner, 14
192683 1999 <i>SO</i> ₂₇	A A	13.17 13.17	0.14 0.14	26.45	0.22					Warner, 13
194268*2001 <i>UY</i> ₄	A A	7.88 7.88	0.13 0.13	5.91	0.12					Warner, 16
202421 2005 <i>UQ</i> ₅₁₃	A A	7.03 7.03	0.3 0.06	10.01	0.06					Thirouin, 12
203095 2000 <i>RO</i> ₃₇	A A	19.61 19.61	0.31 0.31	17.82	0.31					Warner, 12
208996 2003 <i>AZ</i> ₈₄	AB 1A 1A	13.42 6.76 6.71	0.14 0.10 0.14	10.56 13.44	0.08 0.14					Ortiz, 06 Sheppard, 03

AMBIGUOUS PERIODS OF LIGHTCURVES

Asteroid	Note	Per ₁	Amp ₁	Per ₂	Amp ₂	Per ₃	Amp ₃	Per ₄	Amp ₄	Reference
214479 2005 <i>TB</i> ₇₃	NA NA	20.594 20.594	0.84 0.84	36.06	0.96					Galad, 10
215187 2000 <i>LQ</i> ₂₅	NA NA	17.735 17.735	0.61 0.61	12.945	0.58					Galad, 10
219686 2001 <i>WE</i> ₃₇	A A	10.214 10.214	0.49 0.49	8.420	0.45	12.979	0.40			Galad, 10
221267 2005 <i>US</i> ₃₁₃	NA NA	3.8397 3.8397	0.10 0.10	6.8759	0.19	14.514	0.12			Galad, 10
225873 2001 <i>YL</i> ₄	NA A	2.8464 2.8464	0.39 0.39	3.1010	0.39	7.2122	0.42			Galad, 10
242171 2003 <i>GG</i> ₅₁	NA NA	6.785 6.785	0.49 0.49	5.9437	0.45	8.423	0.50			Galad, 10
250112 2002 <i>KY</i> ₁₄	1A 1A	3.56 3.56	0.13 0.13	4.2	0.13	7.12				Thirouin, 10
255129 2005 <i>UC</i> ₁₃₀	NA NA	6.4083 6.4083	0.20 0.20	4.4018	0.18	21.83	0.20			Galad, 10
262623 2006 <i>WY</i> ₂	A A	16.3 16.3	0.14 0.14	32.0	0.15					Warner, 14
276049 2002 <i>CE</i> ₂₆	RAB A	3.2930 3.298	0.07 0.07	3.088	0.07					Warner, 15
276741 2004 <i>EM</i> ₆₆	A A	4.56 4.56	0.15 0.15	4.15	0.15					Skiff, 11w
278361 2007 <i>JJ</i> ₄₃	A A	6.04 6.04	0.13 0.13	12.09	0.13					Benecchi, 13
283460 2001 <i>PD</i> ₁	NA NA	14.58 14.58	0.12 0.12	9.03	0.12					Pravec, 01w
285944 2001 <i>RZ</i> ₁₁	A A	2.2455 4.804	0.11 0.11	4.002	0.11					Stephens, 15
290559 2005 <i>UV</i> ₁₀₈	NA NA	11.634 11.634	0.48 0.48	4.1676	0.53	22.62	0.47			Galad, 10
303775 2005 <i>QU</i> ₁₈₂	NA NA	9.61 9.61	0.12 0.12	19.22	0.12					Benecchi, 13
303938 2005 <i>VS</i> ₁₃₁	NA NA	6.246 6.246	0.29 0.29	2.7107	0.33	15.67	0.26			Galad, 10
307251 2002 <i>KW</i> ₁₄	A A A	8.58 8.58 6.63	0.25 0.21 0.25	10.5 13.25	0.26 0.25	5.23		10.46		Thirouin, 12 Benecchi, 13
307505 2002 <i>YX</i> ₁₁	A A	4.024 4.024	0.13 0.13	6.030	0.13					Skiff, 11w
308242 2005 <i>GO</i> ₂₁	A A	11.00 11.00	0.24 0.24	5.50	0.24					Higgins, 12w
308543 2005 <i>UO</i> ₂₁₃	NA NA	30.73 30.73	0.31 0.31	2.7128	0.28					Galad, 10
308568 2005 <i>UU</i> ₃₉₆	NA NA	7.689 7.689	0.26 0.26	5.812	0.25	11.288	0.26			Galad, 10
308635 2005 <i>YU</i> ₅₅	ATO A	19.31 19.31	0.20 0.20	16.34	0.24					Warner, 12
312645 2010 <i>EP</i> ₆₅	A A	14.97 14.97	0.17 0.17	7.48	0.17	11.54		16.90		Benecchi, 13
320125 2007 <i>EQ</i> ₁₈₅	A A	9.0 9.0	0.48 0.48	11.1	0.48					Warner, 12
323894 2005 <i>SS</i> ₂₈₇	NA NA	14.791 14.791	0.59 0.59	11.395	0.59	21.40	0.62			Galad, 10

AMBIGUOUS PERIODS OF LIGHTCURVES

Asteroid	Note	Per ₁	Amp ₁	Per ₂	Amp ₂	Per ₃	Amp ₃	Per ₄	Amp ₄	Reference
357439*2004 <i>BL</i> ₈₆	AB A	2.6205 2.637	0.17 0.11	2.62	0.11					Birlan, 15
357911 2005 <i>VR</i> ₁₃₁	NA NA	5.2737 5.2737	0.36 0.36	4.5051	0.26	5.5483	0.29			Galad, 10
380981*2006 <i>SU</i> ₁₃₁	A A	4.92 4.92	0.18 0.18	2.74	0.16					Warner, 15
385687 2005 <i>SF</i> ₂₈₆	NA NA	2.36990 2.36990	0.59 0.59	2.1145	0.40	8.889	0.40			Galad, 10
401998 2003 <i>MO</i>	A A	50. 50.	0.40 0.40	27.3	0.44					Warner, 15
408751 1987 <i>SF</i> ₃	A A	21.0 21.0	0.20 0.20	42.0	0.20					Warner, 15
408980 2002 <i>RB</i> ₁₂₆	A A	16.21 16.21	0.14 0.14	8.08	0.14					Warner, 15
410778 2009 <i>FG</i> ₁₉	A A	8.00 8.00	0.80 0.80	9.61	0.81					Warner, 15
411280 2010 <i>SL</i> ₁₃	A A	7.79 7.79	0.20 0.20	3.89	0.24					Warner, 14
416151*2002 <i>RQ</i> ₂₅	A A	12.191 12.191	0.42 0.72	6.096	0.43					Warner, 15
430552*2002 <i>HU</i> ₁₁	A A	15.66 15.66	0.4 0.4	11.71	0.4					Gaftonyuk, 04
433992*2000 <i>HD</i> ₇₄	A A	9.36 9.36	0.15 0.15	4.68	0.18					Warner, 15
444745*2007 <i>JF</i> ₄₃	A A	9.52 9.52	0.22 0.22	4.76	0.22					Benecchi, 13
446804*1999 <i>VN</i> ₆	NATO NA	24.1 24.1	0.7 0.7	16.1	0.7					Pravec, 99w
455322*2002 <i>NX</i> ₁₈	A A	9.040 9.040	0.23 0.23	7.602	0.22					Wolters, 05

F o o t n o t e. The Table includes alternative values of period and amplitude for minor planets marked in the Table “Minor planet lightcurve parameters” as having ambiguous value of period (symbol *A* in column “Note”). For each object the Table contains the summary line (the first one) and detail entries. In the summary line the adopted value of period (Per₁) expressed in hours and lightcurve amplitude (Amp₁) as well as note flag (*A* or other) are given (for the meaning of other note flags see foot note in the Table “Minor Planets Lightcurve Parameters”). In detail entries alternative values of primary period and amplitude as well as other possible periods (Per₂, Per₃,...) and lightcurve amplitudes (Amp₂, Amp₃,...), if available, are given. In the last column of detail entries short reference to the principal author (name and year of corresponding publication) is given. There is not always a direct cross-connection between the summary and detail entries. For example, detail entries can have no *A* flag. An asterisk (*) between the asteroid number and name denotes a new or significantly changed entry.

Posting on a web site are given as the current year + “*w*” (e. g., Warner, 11w).