Asteroid	Type	Per_1	Amp_1	Per_2	Amp_2	Per_{orb}	D_s/D_p	a/D_p	Reference
22 Kalliope	B	4.1483	0.53						
	a								Descamps, 08
	a					86.2896			Marchis, 08
	a	4.148				86.16			Marchis, 11w
45 Eugenia	B	5.699	0.41						
	a	5.6991				114.38			Marchis, 11w
87 Sylvia	M	5.184	0.62						
	a	5.184				87.5904			Marchis, 05
	a	5.1836				87.59			Marchis, 11w
90 Antiope	B	16.509	0.90						
	f	16.509	0.73	16.509	0.73	16.509			Descamps, 05
	f	16.51	0.9	16.51	0.9	16.51			Behrend, 07w
	f	16.505046				16.505046			Bartczak, 14
93 Minerva	M	5.982	0.20						
	a	5.982	0.2			57.79			Marchis, 11
107 Camilla	B	4.844	0.53						
	a								Marchis, 08
	a	4.8439				89.04			Marchis, 11w
121 Hermione	B	5.55128	0.70						
	a	5.55				61.97			Marchis, 11w
130 Elektra	M	5.225	0.58						
	a	5.22				126.2			Marchis, 08
	a								Yang, 14
216 Kleopatra	M	5.385	1.22						
	a	5.38							Marchis, 08
243 Ida	B	4.634	0.86						
	a								Belton, 94
283 Emma	B	6.896	0.57						
	a								Merline, 03
	a	6.89				80.48			Marchis, 08
379 Huenna	B	14.141	0.12						
	a								Margot, 03
	a	7.022				2102.			Marchis, 08
617 Patroclus	B	102.8	0.12						
	f	102.8		102.8		102.8			Marchis, 06
624 Hektor	B	6.924	1.1						
	a								Marchis, 06
702* Alauda	AB	8.3531	0.16						
	a					117.9			Rojo, 11
762* Pulcova	B	5.839	0.30						
	a	5.893				96.			Merline, 00
809 Lundia	B	15.4142	1.12						
	f	15.4	0.35	15.4	0.35	15.4			Kryszczynska, 05
	f	15.4142	0.4	15.4142	0.4	15.4142			Behrend, 05w
	f	15.423	0.18	15.423	0.18	15.423			Behrend, 07w
	f	15.418	1.12			15.418			Kryszczynska, 09
854 Frostia	B	37.56	0.38						
	f	37.56	0.33	37.56	0.33	37.56			Behrend, 04
	f	37.71	0.36			37.71			Behrend, 04w
	f	37.728	0.37	37.728	0.37	37.728			Behrend, 06
	f	37.56	0.05			37.56			Marchis, 12
939 Isberga	B	2.9173	0.25						
	f	2.9173	0.15			26.8			Molnar, 08
	f?								Behrend, 11w
	f	2.91695	0.2			26.6304			Carry, 15
1052 Belgica	B	2.7097	0.10						
	f	2.7097	0.08			47.26			Franco, 13
	f	2.7097	0.08			47.26			Franco, 13
1089 Tama	B	16.44	0.41						
	f	16.4442	0.38	16.4442	0.38	16.4442			Behrend, 04
	f	16.4442	0.41	16.4442	0.41	16.4442			Behrend, 04w
1139 Atami	B	27.446	0.45						
	f	27.446	0.4	27.446	0.4	27.446			Behrend, 05w
1313 Berna	B	25.46	0.28						
	f	25.46	0.25	25.46	0.25	25.46			Behrend, 04
	f	25.46	0.5			25.46			Marchis, 12

Asteroid	Type	Per_1	Amp_1	Per_2	Amp_2	Per_{orb}	D_s/D_p	a/D_p	Reference
1338 Duponta	B	3.85453	0.26						
	s	3.85453	0.23			17.57			Gajdos, 07
	s	3.85449	0.26			17.578			Pravec, 12
	s	3.85453	0.23			17.57			Pravec, 12
1344 Caubeta	B?	3.1220	0.25						
	a?	3.12206	0.16	7.940	0.03				Pravec, 12w
1355 Magoeba	B?	2.9712	0.22						
	s?	2.9712	0.09			15.05			Warner, 15
1453* Fennia	B	4.4121	0.19						
	s	4.4121	0.18			22.99			Warner, 07
	s	4.4121	0.1			22.99			Warner, 08
	s	4.4124	0.13			23.03			Higgins, 11
	s	4.41224	0.18			23.00351			Pravec, 12
	s	4.41207	0.19			22.985			Pravec, 12
	s	4.4127	0.14			22.99			Pravec, 12
1509 Esclangona	B	3.25283	0.35						
	a	3.247	0.13			874.			Merline, 03
	a	3.25281	0.13	6.6420					Pravec, 09w
	a	3.25283	0.13	6.6422	0.04				Warner, 10
	a	3.247	0.12			874.			Marchis, 12
1717 Arlon	B	5.1484	0.12						
	a	5.148	0.08	18.236					Pravec, 05w
	a	5.148	0.08	18.23					Cooney, 06
	a	5.148	0.08	18.211	0.06				Brinsfield, 09
	a	5.1477	0.1	18.216	0.15	117.			Pravec, 11w
	a	5.1496	0.09	18.227	0.14	117.			Pravec, 11w
	a	3.51482	0.07	18.229	0.11	117.			Pravec, 11w
1727 Mette	B	2.98109	0.38						
	s	2.98109	0.33			20.99			Warner, 13
	s	2.98109	0.33			20.99			Warner, 13
1830* Pogson	M	2.56999	0.18						
	a	2.5702	0.12			24.240			Higgins, 07
	a	2.56990	0.1	3.2622	0.03	24.24			Pravec, 12
	a	2.57010	0.12	3.2621	0.03	24.24			Pravec, 12
	a	2.57013	0.1	3.2634	0.03	24.24			Pravec, 12
	a	2.56999	0.12	3.2627	0.04	24.240			Pravec, 12
	a	2.5698	0.14	3.2627	0.04	24.24			Pravec, 13w
1857 Parchomenko	B?	3.1177	0.27						
	s?	3.1177							Stephens, 06
1862 Apollo	B	3.065	1.15						
	a								Ostro, 02
1866 Sisyphus	B?	2.400	0.15						
	s?	2.401	0.02			25.25			Stephens, 11
1876* Napolitania	B?	45.63	0.39						
	a?	45.52	0.24	2.825	0.08				Warner, 16
1979 Sakharov	B?	7.5209	0.22						
	a?	7.5209	0.13						Pravec, 11w
2006* Polonskaya	B	3.1183	0.16						
	a	3.1179	0.08	6.656	0.06	19.15	0.22		Pray, 05
	a	3.11809	0.1	6.6593	0.1	19.153			Pravec, 12
	a	3.11789	0.08	6.6571	0.07	19.153			Pravec, 12
	a	3.114	0.08	6.662	0.09	19.153			Pravec, 12
2044* Wirt	B	3.6898	0.26						
	a	3.6897	0.26			18.97	0.25		Pray, 06
	a	3.6897	0.16	18.976		18.97	0.25		Pravec, 12
	a	3.690	0.12	18.976	0.04	18.97	0.25		Pravec, 12
	a	3.6897	0.25	18.976	0.04	18.976	0.25		Pravec, 12
2047 Smetana	B	2.4970	0.16						
	s	2.4970	0.12	22.43		22.43	0.24		Warner, 13
2074* Shoemaker	B?	2.5328	0.12						
	s?	2.5328	0.06			55.5	0.25		Warner, 09
	s?	2.5338	0.12			27.39			Warner, 11
2102 Tantalus	B?	2.384	0.12						
	s?	2.384	0.12			16.49			Warner, 15
2121* Sevastopol	B	2.90640	0.20						
	s	2.90640	0.2			37.1	0.41		Higgins, 10
	s	2.90647	0.15			37.14			Pravec, 10w
	s	2.90660	0.16			37.1536	0.41	3.3	Pravec, 16
2131* Mayall	B	2.5678	0.09						
	s	2.5678	0.09			23.48	0.26		Warner, 10
	s	2.5678	0.09			23.48	0.28		Warner, 10
	s	2.56783	0.05			23.47			Pravec, 11w
	s	2.5907	0.07			23.58			Warner, 15
	s	2.5678	0.09			23.4849	0.3	2.4	Pravec, 16

Asteroid	Type	Per_1	Amp_1	Per_2	Amp_2	Per_{orb}	D_s/D_p	a/D_p	Reference
2242* Balaton	NB	2.79792	0.18						
	s	2.79792	0.18			12.96	0.25		Marchini, 16
2343* Siding Spring	B	2.10659	0.19						
	s	2.10637	0.15	20.01	0.04	11.789	0.19		Pollock, 15
2449* Kenos	B?	3.8492	0.23						
	s?	3.8481	0.14			15.85	0.23		Warner, 15
2478* Tokai	B	25.885	0.90						
	f	25.885	0.41			25.885	0.72		Higgins, 07
	f	25.88	0.78			25.88			Oey, 11w
2486 Metsähovi	B?	4.4518	0.13						
	a?	2.6404	0.04	4.4518	0.12				Pikler, 07
	a?	4.4518	0.12	2.6404	0.04				Pravec, 07w
	a?	4.4524	0.11	2.6400	0.03				Pravec, 09w
	a?	4.452	0.13	2.64	0.03				Pravec, 14w
2535@Hämeenlinna	NB	3.23106	0.10						
	s	3.23106	0.1	21.23	0.03	21.23	0.22		Benishek, 16
2577* Litva	M	2.81258	0.36						
	s	2.8141	0.24			35.78	0.35		Warner, 09
	s	2.81258	0.24	5.6842	0.09	35.81	0.34		Warner, 09
	s	2.81288	0.23	5.6830	0.04	35.88			Warner, 11
2623 Zech	NB	2.7401	0.22						
	a	2.7401	0.22	18.718	0.08	117.2	0.29		Pray, 14
2658 Gingerich	B?	2.9392	0.39						
	a?	2.9392	0.39						Molnar, 07
2691* Sersic	B	3.8811	0.22						
	s	3.8811	0.21			26.81	0.43		Oey, 11
	s	3.885	0.22	27.17	0.55				Oey, 16
2754* Efimov	B	2.44967	0.16						
	s	2.4497	0.15			14.765	0.2		Pray, 06
	s	2.44967	0.16			14.776	0.22		Pravec, 12
	s	2.4490	0.13			14.77	0.22		Pravec, 12
	s	2.44963	0.14			14.77578	0.22		Pravec, 12
2815 Soma	B	2.73325	0.08						
	s	2.73325	0.07			17.915	0.25		Pollock, 11
3034 Climenhaga	B	2.737485	0.10						
	s	2.737485	0.1			18.954			Oey, 13
3073 Kursk	B	3.4468	0.21						
	s	3.4468	0.21			44.96	0.25		Kusnirak, 07
3122* Florence	B?	2.3581	0.27						
	a?	2.2578	0.12	10.354	0.08				Warner, 16w
3145 Walter Adams	B?	2.7113	0.2						
	s?	2.7113	0.1			17.44	0.22		Owings, 11
3309* Brorfelde	B	2.5041	0.13						
	s	2.5041	0.09			18.48	0.26		Warner, 05
	s	2.5046	0.1			18.45	0.28		Warner, 09
	s	2.5041	0.09			18.48	0.28		Warner, 11
	s	2.50429	0.13			18.46444	0.26		Pravec, 12
	s	2.5044	0.1			18.46444	0.26		Pravec, 12
	s	2.50429	0.09			18.46444	0.26		Pravec, 12
	s	2.5041	0.09			18.45			Pravec, 12
	s	2.50429	0.09			18.46444	0.26		Pravec, 12
	s	2.503	0.1			18.51	0.29		Warner, 14
3352* McAuliffe	B?	2.2060	0.2						
	s?	2.2060	0.09			20.86			Warner, 12
3433* Fehrenbach	B	3.9160	0.28						
	s	3.9160	0.27			19.665	0.31		Pray, 15
3623 Chaplin	B	8.361	0.97						
	f	8.36	0.8			8.36			Marchis, 12
3671 Dionysus	B	2.7053	0.26						
	s	2.705	0.12			27.74			Mottola, 97
	s	2.7053	0.12			27.74	0.2	2.1	Pravec, 06
3673 Levy	B	2.6879	0.13						
	s	2.6879	0.13			21.6	0.28		Pray, 07
	s	2.68748	0.13			21.67	0.28		Pravec, 07w
3703 Volkonskaya	B	3.235	0.22						
	s	3.235	0.22			24.			Ryan, 07

Asteroid	Type	Per_1	Amp_1	Per_2	Amp_2	Per_{orb}	D_s/D_p	a/D_p	Reference
3749 Balam	M	2.80483	0.14						
	a					1920.			Merline, 02
	s	2.80483	0.13			33.38	0.4		Marchis, 08
	s	2.80490	0.14			33.385	0.42		Polishook, 11
	s					33.3873			Behrend, 14w
3782* Celle	AB	3.84	0.15						
	s	3.839	0.15			36.57	0.42		Ryan, 03
	s						0.42	3.3	Marchis, 12
3800 Karayusuf	B?	2.2319	0.19						
	s?	2.2319	0.15						Warner, 08
3841* Dicicco	B	3.5950	0.19						
	s	3.5949	0.18			21.63	0.28		Klinglesmith, 14
	s	3.5950	0.19			21.641	0.28		Klinglesmith, 15
3854* George	B?	3.3398	0.14						
	s?	3.3398	0.14						Warner, 06
3868 Mendoza	B	2.77090	0.20						
	s	2.77090	0.1			24.38	0.22		Oey, 09
	s	2.77089	0.1			12.1944	0.17		Pravec, 12
3873 Roddy	B	2.4782	0.11						
	s?	2.4792	0.1			47.29	0.36		Warner, 08
	s	2.47900	0.11			23.789			Warner, 13
	s	2.4797	0.08			19.24			Warner, 13
3880* Kaiserman	B?	5.270	0.23						
	s?	5.227	0.08			22.16			Warner, 15
3905 Doppler	B	50.8	1.22						
	f	50.8	1.22			50.8	0.77		Franco, 13
	f	50.8	1.22			50.8	0.9		Hayes-Gehrke, 14
3951 Zichichi	B	3.39423	0.35						
	s?	3.3944	0.32						Antonini, 11
	s	3.39423	0.26			27.59	0.33		Husarik, 11
	s	3.3942	0.29			27.59			Pravec, 13w
	s	3.3942	0.32			27.59			Pravec, 13w
	s	3.3942	0.26			27.59			Pravec, 13w
	s	3.3942	0.26			27.59			Pravec, 13w
3982* Kastel′	NB	8.488	0.28						
	s?	8.488	0.27	5.835	0.08				Pravec, 05
	s?	8.84877	0.28	5.8275	0.12				Pravec, 14w
4029 Bridges	B	3.5746	0.29						
	s	3.5746	0.2			16.31	0.24		Higgins, 06
	s	3.5748	0.25			16.30	0.25		Higgins, 11
	s	3.5750	0.21			16.312			Pravec, 11w
	s	3.5742	0.18			16.312			Pravec, 11w
	s	3.5754	0.23			16.31701	0.27		Pravec, 12
	s	3.5752	0.29			16.31701	0.27		Pravec, 12
	s	3.57459	0.2			16.31701	0.27		Pravec, 12
	s	3.5746	0.2			16.31701	0.27		Pravec, 12
4272* Entsuji	NB	2.8087	0.06						
	s	2.8087	0.06			15.945	0.18		Benishek, 15
4383 Suruga	B	3.4069	0.14						
	s	3.4069	0.14			16.386	0.22		Warner, 13
4492* Debussy	B	26.606	1.13						
	f	26.606	0.48			26.606	0.65	2.465	Behrend, 06
	f	26.606	0.39			26.606	0.65		Behrend, 06
4514* Vilen	NB	2.89224	0.09						
	s	2.89224	0.09			16.85	0.26		Pray, 15
4555* Josefapérez	B?	2.8847	0.26						
	s?	2.8847	0.22						Pravec, 07w
	s?	2.8848	0.26			22.18			Oey, 16
4607* Seilandfarm	B	3.9683	0.17						
	s	3.9683	0.15			31.63	0.29		Pray, 09
	s	3.9682	0.15			31.63			Pravec, 09w
	s	3.9681	0.17			31.65			Pravec, 14w
4666* Dietz	B?	2.95242	0.35						
	s?	2.95242	0.21			16.64			Pravec, 15w
4674* Pauling	B	2.5306	0.14						
	a					1200.	0.31		Merline, 04
4765* Wasserburg	B	3.6231	0.60						
	s	3.6231	0.17			15.97	0.17		Warner, 13

Asteroid	Type	Per_1	Amp_1	Per_2	Amp_2	Per_{orb}	D_s/D_p	a/D_p	Reference
4786 Tatianina	B	2.9227	0.25						
	s	2.9227	0.2			21.67	0.19		Pray, 06
	s	2.9227	0.2			21.67	0.19		Pravec, 06w
4868* Knushevia	B?	3.1422	0.12						
	s?	3.1422	0.09			11.922	0.13		Warner, 15
4951* Iwamoto	BT0	118.0	0.38						
	f	118.0	0.34			118.0			Pravec, 07w
5143 Heracles	RB	2.7063	0.20						
	s					16.	0.17		Taylor, 12
	s?	2.7063	0.05						Pilcher, 12
5261 Eureka	B	2.6902	0.06						
	s	2.6902	0.06			16.93	0.39		Koehn, 14
5381* Sekhmet	B	2.8233	0.36						
	s					12.	0.3	1.5	Nolan, 03
	s	2.8233	0.36			12.379	0.25		Warner, 14
5407* 1992 *AX*	B	2.5488	0.12						
	s	2.54878	0.11			13.520			Pravec, 00
	s	2.54883	0.12			13.515			Pravec, 12w
	s	2.5490	0.12			13.517			Pravec, 12w
5425* Vojtěch	B	2.64759	0.27						
	s	2.64759	0.27			25.43	0.22		Stephens, 15
	s	2.64759	0.26			25.43	0.22		Stephens, 16
5426* Sharp	B?	4.5609	0.25						
	s?	4.5609	0.18			24.22			Warner, 15
5474 Gingasen	B?	3.6242	0.18						
	a?	3.6242	0.18	3.1095	0.06				Higgins, 08
	a?	3.6242	0.18	3.1095	0.06				Pravec, 08w
5477* Holmes	B	2.9940	0.12						
	s	2.9943	0.11			24.42	0.37		Warner, 05
	s	2.99408	0.11			24.424	0.45		Warner, 11
	s	2.99401	0.12			24.41	0.39		Pravec, 12
	s	2.99408	0.1			24.41	0.39		Pravec, 12
	s	2.9932	0.1			24.37	0.38		Warner, 12
	s	2.9940	0.1			24.4037	0.39	2.5	Pravec, 16
5481* Kiuchi	B	3.6196	0.10						
	s	3.6196	0.1			20.90	0.33		Kusnirak, 08
	s	3.6198	0.08			20.9			Pravec, 13w
	s	3.6196	0.1			20.9062	0.35	2.2	Pravec, 16
5646* 1990 *TR*	B?	3.1999	0.32						
	s?	3.1999	0.12			19.47	0.18		Warner, 13
5828 1991 *AM*	B?	2.6666	0.15						
	s?	2.6666	0.15			18.338			Warner, 13
5899 Jedicke	B	2.7481	0.05						
	s	3.66	0.04			16.7	0.32		Warner, 10
	s	3.66	0.04			16.7	0.32		Warner, 10
	s	2.730	0.03			16.745	0.3		Warner, 13
	s	2.7481	0.05			16.722	0.3		Warner, 13
5905* Johnson	B	3.7824	0.20						
	s	3.7824	0.11			21.785	0.4		Warner, 05
	s	3.7827	0.1			21.78	0.38		Warner, 09
	s	3.7814	0.19			21.775			Pravec, 11w
	s	3.78142	0.2			21.775			Pravec, 11w
	s	3.7814	0.19			21.775			Pravec, 11w
	s	3.7814	0.18			21.775			Pravec, 11w
	s	3.78222	0.08			21.756	0.38		Pravec, 12
	s	3.7824	0.1			21.756	0.38		Pravec, 12
	s	3.7823	0.16			21.7970	0.38	2.3	Pravec, 16
6084* Bascom	B	2.74542	0.23						
	s	2.7454	0.22			43.5	0.37		Higgins, 06
	s	2.74516	0.14			43.51	0.37		Pravec, 12
	s	2.7453	0.22			43.51	0.37		Pravec, 12
	s	2.74544	0.23			43.5			Pravec, 13w
6244* Okamoto	B	2.8958	0.15						
	s	2.8958	0.11			20.32	0.25		Higgins, 06
	s	2.89585	0.15			20.32	0.23		Higgins, 11
	s	2.89597	0.13			20.31	0.25		Pravec, 12
	s	2.8957	0.11			20.3105	0.25		Pravec, 12
6265 1985 TW_3	B	2.70932	0.36						
	s	2.7091	0.28			15.86	0.24		Higgins, 07
	s	2.70932	0.35			15.845	0.3		Higgins, 11
	s	2.70931	0.36			15.86	0.32		Pravec, 12
	s	2.7091	0.28			15.86	0.32		Pravec, 12

Asteroid	Type	Per_1	Amp_1	Per_2	Amp_2	Per_{orb}	D_s/D_p	a/D_p	Reference
6384* Kervin	B	3.6203	0.10						
	s	3.6194	0.06	15.94	0.03	15.94	0.35		Warner, 16w
6502 1993 XR_1	B?	4.1931	0.18						
	s?	4.1931	0.13						Pravec, 14w
	s?	4.1933	0.18						Pravec, 15w
6611* 1993 *VW*	B?	2.5568	0.15						
	s?	2.55680	0.06		0.09	17.190			Pravec, 05w
6615 Plutarchos	B?	2.3247	0.06						
	s?	2.3247	0.06			40.02	0.25		Oey, 07
6815* Mutchler	B?	2.4384	0.09						
	s?	2.4384	0.09						Pray, 07
6901* Roybishop	AB	4.682	0.07						
	s?	4.682	0.04			17.157	0.19		Warner, 09
7088* Ishtar	B	2.6790	0.11						
	s	2.6790	0.11			20.65	0.42		Reddy, 06
	s	2.6790	0.11			20.65	0.42		Pravec, 06w
	s	2.6786	0.11			20.63	0.42	2.2	Pravec, 16
7187* Isobe	B	4.2432	0.22						
	s?	4.2437	0.13			32.76			Warner, 13
	s?	4.2427	0.09			33.22	0.17		Warner, 13
	s	4.247	0.18			32.66			Warner, 13
	s	4.2431	0.15			32.69			Warner, 13
7225 Huntress	B	2.43995	0.11						
	s	2.43995	0.11			14.67			Pravec, 07w
	s	2.4400	0.11			14.67	0.21		Pray, 08
7369 Gavrilin	B	49.12	0.25						
	f	49.12	0.25			49.12	0.32		Higgins, 08
	f	49.12	0.25			49.12	0.7		Pravec, 08w
7758 Poulanderson	B?	2.64752	0.14						
	s?	2.6474	0.14			59.4			Warner, 12
7888 1993 *UC*	RB	2.340	0.10						
	s					35.			Brozovic, 13
7958* Leakey	B	2.34843	0.22						
	s	2.34843	0.22			50.29	0.3		Warner, 12
	s	2.34855	0.22			49.5			Stephens, 16
	s	2.34832	0.19			49.5			Stephens, 16
8026* Johnmckay	T0B?	372.	1.00						
	a?	372.	1.	2.2981	0.1				Warner, 11
	a?	355.	0.7	14.93	0.16				Warner, 15
8116* Jeanperrin	B	3.61692	0.10						
	s	3.6169	0.09			36.15	0.33		Higgins, 07
	s	3.61692	0.09			36.15			Pravec, 07w
8306 Shoko	B	3.3503	0.11						
	s?	3.604	0.1						Polishook, 14
	s	3.3503	0.11			36.20	0.4		Pravec, 14
8373 Stephengould	B	4.435	0.39						
	a	4.435	0.39			34.15	0.27		Krugly, 10
8474* Rettig	B	30.54	0.93						
	f	30.54	0.34	30.54	0.34	30.54	0.86		Chiorny, 15
9069* Hovland	B	4.217	0.11						
	s	4.2174	0.08			30.35			Warner, 04
	s	4.2173	0.09			30.292			Warner, 11
9260 Edwardolson	NB	3.0852	0.11						
	s	3.0852	0.11			17.785	0.27		Jakubik, 05
9617* Grahamchapman	B	2.2856	0.11						
	s	2.2856	0.1			19.385	0.27		Pray, 06
	s	2.28561	0.11			19.385	0.27		Pravec, 12
	s	2.2856	0.1			19.3817	0.27		Pravec, 12
9772* 1993 *MB*	B?	5.3450	0.17						
	a?	5.3450	0.17	5.4292	0.06				Pravec, 15w
10208 Germanicus	B	3.3484	0.13						
	s	3.3484	0.13			58.55	0.46		Oey, 07
11001* Andrewulff	B?	3.9638	0.14						
	s?	3.9638	0.14						Pravec, 12w

Asteroid	Type	Per_1	Amp_1	Per_2	Amp_2	Per_{orb}	D_s/D_p	a/D_p	Reference
11116 1996 *EK*	B?	4.4017	0.10						
	s?	4.4017	0.08				0.17		Pravec, 06w
	s?	4.4018	0.1						Pravec, 09w
11227* Ksenborisova	B	2.61679	0.34						
	s	2.61679	0.34			16.06			Behrend, 15w
11264 Claudiomaccone	B	3.1872	0.16						
	s	3.1872	0.12			15.11	0.3		Pravec, 06
	s	3.1872	0.15			15.11			Krugly, 07
13123* Tyson	B?	3.3303	0.35						
	a?	3.3302	0.2	3.862	0.04				Pravec, 15w
15268 Wendelinefroger	B	2.4224	0.07						
	s	2.4224	0.07			25.07	0.27		Oey, 08
15430 1998 UR_{31}	B?	2.52735	0.11						
	s?	2.52735	0.11						Pravec, 10w
	s?	2.5273	0.1			23.96			Oey, 13
15700 1987 *QD*	B?	3.0586	0.07						
	s?	3.0856	0.07			50.3	0.31		Durkee, 10
15822* 1994 TV_{15}	B	2.95998	0.28						
	s?	2.9601	0.28			37.19			Warner, 11
	a?	2.9603	0.26			20.01	0.22		Warner, 14
	s	2.95998	0.27			20.13	0.22		Warner, 14
16525 Shumarinaiko	B	2.5932	0.20						
	s	2.5932	0.08			14.409	0.17		Warner, 13
	s	2.5932	0.08			14.409	0.17		Warner, 13
16635* 1993 *QO*	B	2.20827	0.20						
	a	2.2083	0.17	7.622	0.05	32.25	0.27		Pray, 07
17246 2000 GL_{74}	B	10.	0.15						
	a					2034.	0.44		Tamblyn, 04
17260 2000 JQ_{58}	B	3.1285	0.17						
	s	3.1287	0.15			14.757	0.26		Higgins, 06
	s	3.1288	0.17			14.7577	0.26		Pravec, 12
	s	3.12867	0.15			14.7577	0.26		Pravec, 12
18890 2000 EV_{26}	B	3.8216	0.11						
	s	3.8216	0.1			14.29	0.27		Warner, 15
	s?	3.882	0.09			14.42			Warner, 15
20325 1998 HO_{27}	NB	3.24474	0.13						
	s	3.24474	0.13			23.54	0.3		Pray, 14
20932* 2258 *T–1*	B?	4.3245	0.17						
	s?	4.3245	0.09			12.02			Stephens, 16
22899* 1999 TO_{14}	BW	5.0206	0.19						
	a					1356.			Merline, 03
23615* 1996 FK_{12}	B?	368.	0.23						
	a?	367.	0.23	3.6456	0.09				Warner, 15
25884 Asai	B?	4.9169	0.55						
	s?	4.91684	0.36			73.5	0.28		Warner, 12
26074 Carlwirtz	B	2.5493	0.11						
	s	2.5493	0.11			16.11			Warner, 13
26471 2000 AS_{152}	B	2.68679	0.24						
	s	2.6866	0.22			39.22	0.38		Warner, 09
	s	2.68679	0.22			39.28	0.36		Warner, 10
	s	2.6869	0.18			39.61	0.2		Warner, 13
27568* 2000 PT_6	B?	3.4885	0.15						
	s?	3.4885	0.1			16.353	0.22		Warner, 13
	s?	3.499	0.11			11.73			Warner, 15
29168 1990 *KJ*	B?	2.58247	0.15						
	s?	2.58247	0.14			34.4			Pravec, 11w
30535 2001 OR_5	B?	2.9697	0.12						
	a?	2.9697	0.12			13.27			Warner, 15
31345* 1998 *PG*	B	2.51620	0.11						
	a	2.51620	0.11	7.0035	0.07				Pravec, 00
31450* 1999 CU_9	B	3.4116	0.31						
	a	3.4116	0.24			53.47	0.22		Pray, 15
32008 2000 HM_{53}	B	3.0171	0.19						
	s	3.0171	0.19			40.24	0.4		Pravec, 07

Asteroid	Type	Per_1	Amp_1	Per_2	Amp_2	$\mathrm{Per}_{\mathrm{orb}}$	$\mathrm{D}_s/\mathrm{D}_p$	a/D_p	Reference
32039* 2000 JO_{23}	B	3.2990	0.05						
	a	3.2990	0.05	11.099	0.08	360.	0.58		Pray, 07
	a	3.2990	0.05				0.58		Pravec, 11w
34706 2001 OP_{83}	B	2.5946	0.16						
	s	2.5944	0.13			20.76	0.28		Warner, 05
	s	2.5946	0.13			20.76	0.28		Warner, 06
35107* 1991 VH	B	2.6236	0.15						
	s	2.6236	0.08			32.74			Pravec, 97
	s	2.6237	0.08			32.688	0.39		Pravec, 98
	s	2.6238	0.08			32.69	0.4		Pravec, 06
	s	2.6236	0.08	12.836	0.06	32.63	0.37		Pravec, 06
	s								Merline, 08
	s	2.6239	0.15			32.26			Vander Haagen, 10
42355 Typhon	B	5.	0.1						
	a						0.5		Noll, 06
	a					455.			Grundy, 08
46037* 2001 DF_{33}	B?	2.6865	0.23						
	s?	2.6865	0.23			17.03			Warner, 12
46829* 1998 OS_{14}	NAB	2.6236	0.12						
	s	2.6236	0.12			16.833	0.4		Pravec, 15
47141* 1999 HB_3	B?	2.8614	0.14						
	s?	2.8614	0.14	10.53	0.13	10.56			Warner, 16
47171 1999 TC_{36}	B	6.21	0.06						
	f								Margot, 05
	f								Stansberry, 05
50000* Quaoar	B	17.6788	0.2						
	s								Brown, 07
	s								Noll, 08
51356 2000 RY_{76}	AB	2.5572	0.09						
	s	2.5572	0.09			62.05	0.21		Warner, 13
52316 1992 BD	B	2.7629	0.10						
	s	2.7629	0.1			13.435	0.19		Warner, 13
53110* 1999 AR_7	B	2.7375	0.10						
	s	2.7375	0.1			31.31	0.4		Warner, 16
53432 1999 UT_{55}	B	3.330	0.10						
	s	3.330	0.1			14.10	0.24		Warner, 13
	s	3.330	0.1			14.10	0.24		Warner, 13
55637* 2002 UX_{25}	HAB	14.382	0.21						
	s								Brown, 07
	s								Noll, 08
65489* Ceto	B	4.43	0.08						
	f	229.3				229.3			Grundy, 07
65803* Didymos	B	2.2593	0.24						
	s	2.26				11.91	0.22		Pravec, 03
	s	2.2593	0.08			11.900	0.22	1.4	Pravec, 06
	s					11.906	0.22	2.8	Scheirich, 09
66063* 1998 RO_1	B	2.4924	0.16						
	s	2.4924	0.13			14.53	0.5		Pravec, 03
	s	2.4924	0.13			14.54			Galad, 04
	s					14.54	0.48	3.2	Scheirich, 09
66391* 1999 KW_4	B	2.7650	0.4						
	s	2.7650	0.12			17.45	0.3		Pravec, 06
	s					17.42	0.46	3.2	Scheirich, 09
66652 Borasisi	HB		0.05						
	a								Noll, 08
	a					1110.9			Grundy, 11
68063* 2000 YJ_{66}	B	2.1099	0.14						
	s	2.1102	0.14	15.69	0.12	15.69			Warner, 15
68348 2001 LO_7	B?	3.324	0.15						
	s?	3.8759	0.08			17.54			Warner, 15
69230* Hermes	B	13.894	0.08						
	f	17.				17.	1.		Margot, 03
	f	13.894	0.08			13.894			Behrend, 03w
	f	13.894	0.06			13.894	0.9		Pravec, 06
69406 1995 SX_{48}	B?	4.487	0.19						
	s?	4.487	0.15			16.11	0.19		Warner, 14

Asteroid	Type	Per_1	Amp_1	Per_2	Amp_2	Per_{orb}	D_s/D_p	a/D_p	Reference
70030* Margaretmiller	B?	4.3292	0.50						
	s?	4.3292	0.45			15.87			Warner, 12
76818* 2000 RG_{79}	B	3.1664	0.15						
	s	3.1664	0.14			14.125	0.37		Warner, 05
	s	3.16640	0.14			14.123	0.34		Warner, 09
	s	3.1666	0.14			14.126	0.36		Warner, 11
	s	3.16639	0.14			14.11960	0.35		Pravec, 12
	s	3.16649	0.14			14.11960	0.35		Pravec, 12
	s	3.1669	0.15			14.134	0.36		Warner, 14
79360* Sila–Nunam	B	300.24	0.14						
	a								Noll, 08
	f	300.24	0.17			300.24			Grundy, 12
	f	300.24	0.15			300.24			Rabinowitz, 14
79472* 1998 AX_4	B?	2.8802	0.21						
	s?	2.8800	0.19			15.51	0.34		Warner, 15
	s?	2.8796	0.19			16.14	0.34		Warner, 15
80806 2000 CM_{105}	HB		0.14						
	f								Noll, 08
85275 1994 LY	B?	2.6962	0.16						
	s?	2.6962	0.11			48.5			Pravec, 07w
85938* 1999 DJ_4	B	2.5141	0.11						
	s	2.514	0.1			17.72	0.45		Pravec, 04
	s						0.48		Benner, 04
88710 2001 SL_9	B	2.4004	0.12						
	s	2.4003	0.08			16.40	0.31		Pravec, 01
	s	2.4013	0.12			16.19	0.32		Warner, 14
90482* Orcus	B	13.188	0.18						
	a								Brown, 07
	a					228.9432			Brown, 10
	a			233.	0.06	233.			Ortiz, 11
99913 1997 CZ_5	B	2.833	0.20						
	s	2.83507	0.19			14.68	0.19		Higgins, 11
101668* 1999 CR_{95}	B?W	16.54	0.90						
	f?	16.54	0.9			16.54			Polishook, 12
114319 2002 XD_{58}	NB?	2.9649	0.14						
	a?	2.9649	0.14	7.954	0.08				Pray, 05
119067 2001 KP_{76}	HB								
	f						0.95		Marchis, 08
120347 Salacia	1AB	6.09	0.2						
	s					131.851	0.34		Stansberry, 12
134340 Pluto	M	153.2935	0.30						
	f	153.2935	0.3			153.2935	0.53		Tholen, 97
134860 2000 OJ_{67}	HB								
	s								Noll, 08
136108 Haumea	B	3.9154	0.32						
	a								Brown, 05
136199 Eris	B	25.9	0.1						
	a								Brown, 06
136617* 1994 CC	RM	2.38860	0.09						
	a								Brozovic, 09
	a	2.38860	0.09			29.832	0.18		Brozovic, 11
136993 1998 ST_{49}	RB	2.3017	0.15						
	s	2.30							Radar Team, 12
137170* 1999 HF_1	AB	2.3192	0.26						
	s?	2.319	0.12			14.017	0.2		Pravec, 02
	s?	2.31927	0.13			14.017	0.17		Pravec, 02
	s	2.3192	0.17			14.03	0.24		Pravec, 06
	s	2.31927	0.12			14.02	0.3		Pravec, 06
	s	2.319	0.22			14.04	0.23		Marchis, 12
148780 Altjira	B		0.3						
	s								Noll, 08
	a					3349.5			Grundy, 11
153591* 2001 SN_{263}	M	3.423	0.27						
	s	3.424							Becker, 08
	s						0.5		Nolan, 08
	s	3.20	0.27			46.1			Betzler, 08
	s	3.4256				16.464	0.31		Becker, 15

Asteroid	Type	Per_1	Amp_1	Per_2	Amp_2	Per_{orb}	D_s/D_p	a/D_p	Reference
153958 2002 AM_{31}	B	2.8174	0.25						
	s	2.8174	0.09			12.81			Pravec, 12w
	s	2.8174	0.1			26.3			Taylor, 13
160091 2000 OL_{67}	HB								
	s								Marchis, 08
162000 1990 OS	B	2.536	0.22						
	s					21.			Ostro, 03
162483 2000 PJ_5	B?	2.642	0.25						
	s?	2.642	0.25			14.16			Polishook, 08
164121 2003 YT_1	B	2.343	0.27						
	a	2.343	0.16			30.			Pravec, 06
175706 1996 FG_3	B	3.5942	0.15						
	s	3.595	0.1			16.15	0.33		Mottola, 00
	s	3.5942	0.08			16.135	0.31		Pravec, 00
	s					16.14	0.28	3.1	Scheirich, 09
	s	3.595195				16.1508			Scheirich, 15
185851* 2000 DP_{107}	B	2.7754	0.21						
	s					42.5			Margot, 00
	s								Ostro, 00
	s	2.7754	0.19			42.24	0.37		Pravec, 00
	s								Margot, 02
	s					42.09			Scheirich, 09
	s	2.77447	0.13			42.201	0.35		Warner, 09
	s	2.7745	0.18			42.20			Warner, 11w
	s	2.7745				42.134			Naidu, 15
190208* 2006 AQ	B?	182.	0.25						
	a?	182.	0.25	2.621	0.08				Warner, 15
208996* 2003 AZ_{84}	AB	13.42	0.14						
	s								Brown, 07
218144* 2002 RL_{66}	T0B?	587.	0.32						
	a?	587.	0.25	2.49	0.04				Warner, 10
276049* 2002 CE_{26}	RAB	3.2930	0.07						
	s	3.2930	0.06			15.6	0.07		Pravec, 06
	s								Shepard, 06
	s	3.088	0.07			16.26			Warner, 15
285263 1998 QE_2	RB	4.749	0.20						
	s								Brozovic, 13
	s?	4.749	0.19			31.3			Pravec, 13w
303712 2005 PR_{21}	HB								
	s								Noll, 08
311066 2004 DC	RB	2.5709	0.25						
	s								Taylor, 06
341520 Mors–Somnus	NB	9.28	0.24						
	a					23000.			Sheppard, 11
	a					23050.			Sheppard, 12
348400* 2005 JF_{21}	M	2.4149	0.07						
	s								Naidu, 15
	s	2.4157	0.07			14.74	0.19		Stephens, 16
	s	2.4131	0.05			14.72	0.17		Stephens, 16
357439* 2004 BL_{86}	AB	2.6205	0.17						
	s	2.6205	0.17			13.80	0.21		Pollock, 15
	s						0.22		Radar Team, 15
363027 1998 ST_{27}	RB	3.	0.1						
	s								Benner, 01
363599 2004 FG_{11}	RB	4.							
	f					20.0			Taylor, 12
	f?					22.			Warner, 14
374851 2006 VV_2	B	2.425	0.57						
	s								Benner, 07
	s					6.1			Vereshchagina, 11
385186* 1994 AW_1	B	2.5193	0.17						
	s?					11.94			Mottola, 95
	s	2.5193	0.13			22.40	0.53		Pravec, 97
	s	2.5193	0.17			22.38	0.31		Birlan, 10
	s	2.5182	0.14	4.508	0.08	22.34	0.33		Warner, 16
399307 1991 RJ_2	B	3.4807	0.09						
	s	3.4807	0.09			15.917	0.53		Warner, 15
399774* 2005 NB_7	B	3.4882	0.15						
	s	3.4833	0.13			15.28	0.32		Kusnirak, 08

F o o t n o t e. This Table includes those asteroids that are known or suspected binaries (Note B or B? in the Table "Minor planet lightcurve parameters"). The data in the Table are by no means exhaustive. They are meant to provide a quick overview of the primary period and amplitude as well as a secondary period and, if available, amplitude. See http://www.asu.cas.cz/ asteroid/binastdata.htm for a page that provides more details as well as links to the original journal articles. See also Table "Binary asteroid parameters" in this volume.

In the column "Type" the summary line contains letter code with the same meaning as in the footnote to the Table "Minor planet lightcurve parameters". In the secondary lines code "a" means a fully asynchronous system. The satellite's rotation period is different from its orbital period. In this case, the orbital period is given along with the independent rotation period and lightcurve amplitude of the satellite, if available. Code "s" means a singly asynchronous system. The satellite's rotation period and orbital period are the same, i. e., they are tidally-locked, but different from the primary's spin period. In this case, only an orbital period is given. Code "f" means a fully synchronous system. The rotation period of the primary and satellite are the same and is the same as the orbital period of the satellite. In this case, the primary rotation period and lightcurve amplitude is given and matches the orbital period of the two bodies. No secondary period is given.

In some asynchronous systems, it is not always possible to determine with certainty which of the two is the primary and which is the secondary in such systems. In these cases, we are forced to give the period and amplitude of one body as that of the "primary" and the other period and amplitude as that of the "secondary" when, in fact, the roles may be reversed from our selection.

For each object the Table contains the summary line (the first one) and detail entries. In the summary line the adopted value of primary period (Per_1) expressed in hours and amplitude of lightcurve (Amp_1) are given. In detail entries alternative values of primary period and corresponding amplitude as well as secondary period (Per_2) and amplitude (Amp_2), if available, and orbit period are given. In the next two columns the estimated effective diameter ratio (D_s/D_p) and the ratio of the semi-major axis of the satellite orbit to the diameter of the primary (a/D_p) are indicated. In the last column of detail entries short reference to the principal author (name and year of corresponding publication) is given. Posting on a web site are given as the current year + "w" (e. g., Warner, 11w).

An asterisk (*) between the asteroid number and name denotes a new or significantly changed entry. A mark (@) between the asteroid number and name denotes that the entry is new since the last annual release, futher review is unlikely, but possible.