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						
	B a								Descamps, 08
	B a					86.2896			Marchis, 08
	B a	4.148				86.16			Marchis, 11w
41 Daphne	B	5.988	0.45						
	B s					26.4			Conrad, 08
	B s					38.			Conrad, 08
	B s	5.987981				27.289		2.4	Carry, 18
45 Eugenia	M	5.699	0.30						
	B a					113.			Merline, 99
	B a								Marchis, 06
	M a								Marchis, 07
	M a								Marchis, 08
	B a	5.6991				114.38			Marchis, 11w
87 Sylvia	M	5.184	0.50						
	M a	5.184				87.5904			Marchis, 05
	M a	5.1836				87.59			Marchis, 11w
90 Antiope	B	16.509	0.88						
	B f					16.			Merline, 00
	B f	16.509	0.73	16.509	0.73	16.509			Descamps, 05
	B f	16.5045	0.86	16.5045	0.86	16.5045			Behrend, 07w
	B f	16.505046				16.505046			Bartczak, 14
93 Minerva	M	5.982	0.20						
	M a	5.982	0.20			57.79			Marchis, 11
107* Camilla	M	4.844	0.53						
	B a								Marchis, 08
	B a	4.8439				89.04			Marchis, 11w
	M a							1.5	Marsset, 16
	M s					89.096		4.9	Pajuelo, 18
113 Amalthea	B?	9.950	0.22						
	? u								Maley, 17
121 Hermione	B	5.55128	0.62						
	B a								Merline, 02
	B a								Marchis, 04
	B a								Marchis, 05
	B a	5.55				61.97			Marchis, 11w
130 Elektra	M	5.225	0.58						
	B a	5.22				126.2			Marchis, 08
	M a								Yang, 14
216 Kleopatra	M	5.385	1.22						
	M a	5.38							Marchis, 08
243 Ida	B	4.634	0.86						
	B a								Belton, 94
279 Thule	B?	23.896	0.10						
	B s	7.44	0.08			72.2			Sato, 15
283 Emma	B	6.896	0.53						
	B a								Merline, 03
	B a	6.89				80.48			Marchis, 08
324 Bamberga	B?	29.43	0.12						
	B s	29.458	0.06			71.0			Sato, 15
379 Huenna	B	14.141	0.12						
	B a								Margot, 03
	B a	4.022				2102.			Marchis, 08
617 Patroclus	B	102.8	0.07						
	B f	102.8		102.8		102.8			Marchis, 06
624 Hektor	B	6.924	1.10						
	B a								Marchis, 06
702* Alauda	AB	16.7072	0.12						
	B a					117.9			Rojo, 11
762 Pulcova	B	5.839	0.42						
	B a	5.893				96.			Merline, 00
809 Lundia	B	15.4142	1.12						
	B a	15.4142	0.40	15.4142	0.40	15.4142			Behrend, 05w
	B a	15.4	0.35	15.4	0.35	15.4			Kryszczynska, 05
	B f	15.423	0.18	15.423	0.18	15.423			Behrend, 07w
	B a	15.418	1.12			15.418			Kryszczynska, 09
	B f	15.41574				15.41574			Bartczak, 17
854 Frostia	B	37.56	0.38						
	B f	37.56	0.33	37.56	0.33	37.56			Behrend, 04

Asteroid	Type	Per_1	Amp_1	Per_2	Amp_2	Per_{orb}	D_s/D_p	a/D_p	Reference
	B f	37.71	0.36						Behrend, 04w
	B f	37.728	0.37	37.728	0.37	37.728			Behrend, 06
	B f	37.56	0.05			37.56			Marchis, 12
939 Isberga	B	2.9173	0.25						
	B s	2.9173	0.25			26.8			Molnar, 08
	? s								Behrend, 11w
	B s	2.91695	0.20						Carry, 15
1016 Anitra	B	5.92951	0.50						
	B a	5.92951	0.30	2.609143	0.10	240.			Pilcher, 16
	B a	5.9294	0.25	2.6091	0.09				Pilcher, 16
	B a	5.92960	0.33	2.6092	0.11				Pilcher, 16
	B a	5.92943	0.30	2.609220	0.10				Pilcher, 16
	B a	5.9295	0.28	2.60885	0.10				Pilcher, 16
	B a	5.9300	0.41	2.60934	0.12				Pilcher, 16
	? a	5.9295	0.26	2.6090	0.10				Klinglesmith, 17
1052 Belgica	B	2.7097	0.10						
	B s	2.7097	0.08			47.26			Franco, 13
1089 Tama	B	16.44	0.41						
	B f	16.4442	0.41			16.4442			Behrend, 04
	B f	16.4442	0.41			16.4442			Behrend, 04w
1103 Sequoia		3.03784	0.53						
	? a	3.0381	0.35	21.7	0.04				Warner, 15
1139 Atami	B	27.446	0.45						
	B f	27.446	0.40			27.446			Behrend, 05w
1169* Alwine	B	2.9272	0.33						
	B s	2.9272	0.32			13.397	> 0.22		Stephens, 20
1313 Berna	B	25.46	0.58						
	B f	25.46	0.25			25.46			Behrend, 04
	B f	25.46	0.50			25.46			Marchis, 12
	? f	25.46	0.58			25.46			Behrend, 17w
1333 Cevenola		4.877	1.1						
	? f	4.88	1.05			4.88			Marchis, 12
1338 Duponta	B	3.85453	0.26						
	B s	3.85453	0.23			17.57			Gajdos, 07
	B s	3.85453	0.23			17.57			Pravec, 12
	B s	3.85449	0.26			17.578			Pravec, 12
1344* Caubeta	B	3.12219	0.55						
	? a	3.12206	0.16	7.940	0.03				Pravec, 12w
	B s	3.12219	0.43			42.40	> 0.27		Christmann, 19
	B s	3.12219	0.43			42.4			Pravec, 19w
	B s	3.1223	0.49			42.4			Pravec, 19w
	B s	3.1223	0.46			42.4			Pravec, 19w
1355* Magoeba		5.9466	0.22						
	? s	2.9712	0.09			15.05			Warner, 15
1453* Fennia	B	4.4121	0.20						
	B s	4.4121	0.18			22.99			Warner, 07
	B s	4.4121	0.10			22.99			Warner, 08
	B s	4.4124	0.13			23.03			Higgins, 11
	B s	4.4127	0.14			22.99			Pravec, 12
	B s	4.41224	0.18			23.00351			Pravec, 12
	B s	4.41207	0.19			22.985			Pravec, 12
	? s	4.412	0.19			23.55			Warner, 16
	B s	4.4120	0.14			23.10			Franco, 19
1509 Esclangona	B	3.25283	0.35						
	B a	3.247	0.13			874.			Merline, 03
	B a	3.25281	0.13	6.6420					Pravec, 09w
	B a	3.25283	0.13	6.6422	0.04				Warner, 10
	B a	3.247	0.12			874.			Marchis, 12
1656 Suomi		2.583	0.20						
	? a	2.5879	0.16	12.60	0.11				Warner, 16
1717* Arlon	B	5.1484	0.12						
	B a	5.1484	0.08	18.236					Pravec, 05w
	B a	5.1484	0.08	18.23					Cooney, 06
	B a	5.148	0.08	18.211	0.06				Brinsfield, 09
	B a	5.1496	0.09	18.227	0.14	117.			Pravec, 11w
	B a	3.51482	0.07	18.229	0.11	117.			Pravec, 11w
	B a	5.1477	0.10	18.216	0.15	117.			Pravec, 11w
	B s	5.1448	0.10			18.24			Franco, 19
1727 Mette	B	2.98109	0.38						
	B s	2.98109	0.33			20.99			Warner, 13
	B s	2.98109	0.33			20.99			Warner, 13
	? s	2.9812	0.32			20.9			Warner, 16

Asteroid	Type	Per_1	Amp_1	Per_2	Amp_2	Per_{orb}	D_s/D_p	a/D_p	Reference
1770* Schlesinger	B?	2.88036	0.31						
	? s	2.8816	0.29	9.21	0.07				Pravec, 15w
	? s	2.88036	0.30			40.			Pravec, 16w
	? s	2.8803	0.25			57.45			Pravec, 16w
	? u	2.88032	0.24	13.21	0.02				Pravec, 20w
	? s	2.88036	0.30			31.2			Pravec, 20w
1798 Watts	BN	3.5060	0.06						
	B s	3.5060	0.06			26.96	> 0.25		Pray, 17
1829 Dawson		4.254	0.32						
	? s	4.2496	0.28			23.04			Oey, 17
1830* Pogson	M	2.56999	0.18						
	M a	2.5702	0.12			24.240			Higgins, 07
	M a	2.57010	0.12	3.2621	0.03	24.24			Pravec, 12
	M a	2.56990	0.10	3.2622	0.03	24.24			Pravec, 12
	M a	2.57013	0.10	3.2634	0.03	24.24			Pravec, 12
	M a	2.56999	0.12	3.2627	0.04	24.240			Pravec, 12
	M a	2.5698	0.14	3.2627	0.04	24.24			Pravec, 13w
	B s	2.570	0.14	3.2626					Fauerbach, 19
1857 Parchomenko	B?	3.1177	0.27						
	? s	3.1177	0.22						Stephens, 06
1862 Apollo	B	3.065	1.15						
	B a								Ostro, 02
1863 Antinous		7.453	0.33						
	? s	7.453	0.18			28.6			Warner, 16
1866 Sisyphus	B	2.400	0.17						
	B s								Benner, 85
	? s	2.401	0.02			25.25			Stephens, 11
	? s	2.3909	0.03			27.16			Warner, 16
1876 Napolitania	B?	45.63	0.39						
	? a	45.63	0.24	2.825	0.08				Warner, 16
1928 Summa		6.8549	0.18						
	? a	6.855	0.13	5.987	0.04				Owings, 13
1943* Anteros	B	2.86923	0.14						
	B s	2.86921	0.07			23.548	0.22		Warner, 17
	? s	2.86937	0.11			19.70			Warner, 19
1979 Sakharov	B?	7.5209	0.22						
	? a	7.5209	0.13						Pravec, 11w
2006* Polonskaya	B	3.1183	0.16						
	B a	3.1179	0.08	6.656	0.06	19.15	> 0.22		Pray, 05
	B a	3.114	0.08	6.662	0.09	19.153			Pravec, 12
	B a	3.11789	0.08	6.6571	0.07	19.153			Pravec, 12
	B a	3.11809	0.10	6.6593	0.10	19.153			Pravec, 12
	B a	3.1181	0.07	6.621	0.08	19.155			Pravec, 19w
2019* van Albada	B	2.7294	0.22						
	B s	2.7294	0.16			17.982	> 0.26		Benishek, 19
2044 Wirt	B	3.6898	0.26						
	B s	3.6898	0.26			18.97	> 0.25		Pray, 06
	B s	3.6897	0.25	18.976	0.04	18.976	> 0.25		Pravec, 12
	B s	3.6897	0.16	18.976		18.97	> 0.25		Pravec, 12
	B s	3.690	0.12	18.976	0.04	18.97	> 0.25		Pravec, 12
2047 Smetana	B	2.4970	0.16						
	B s	2.4970	0.12	22.43		22.43	> 0.24		Warner, 13
	? s	2.498	0.12			22.4	> 0.16		Warner, 16
2048 Dwornik		3.677	0.22						
	? s	3.780	0.02	11.74	0.03				Warner, 16
2059* Baboquivari		129.47	0.45						
	? a	129.47	0.45	19.199	0.08				Warner, 20
2070* Humason	B	3.1883	0.31						
	B s	3.1883	0.15			53.5			Pravec, 18w
	B s	3.1879	0.25			53.5			Pravec, 18w
	B s	3.1883	0.19			53.5			Pravec, 18w
	B s	3.1879	0.31			53.5			Pravec, 18w
	B s	3.1883	0.15			53.5	$= 0.31$		Benishek, 19
2074 Shoemaker	B?	2.5328	0.13						
	? s	2.5328	0.06			55.5	> 0.25		Warner, 09
	? s	2.5338	0.12			27.39			Warner, 11
	? s	2.5331	0.09			44.28			Warner, 18
2083 Smither		2.6717	0.11						
	? a	2.6717	0.09			30.09			Warner, 10
	? a	2.6731	0.08	32.3	0.05				Warner, 15

Asteroid	Type	Per_1	Amp_1	Per_2	Amp_2	Per_{orb}	D_s/D_p	a/D_p	Reference
2102 Tantalus	B?	2.384	0.12						
	? s	2.384	0.12			16.49			Warner, 15
	? s	2.3865	0.06	8.2177	0.05				Vaduvescu, 17
	? s	2.383	0.07			16.37			Warner, 17
2121 Sevastopol	B	2.90640	0.20						
	B s	2.90640	0.20			37.1	> 0.41		Higgins, 10
	B s	2.90647	0.15			37.14			Pravec, 10w
	B s	2.90660	0.16			37.1536	> 0.41	3.3	Pravec, 16
	B s	2.81	0.19			37.048	> 0.40		Di Sisto, 17
2131* Mayall	B	2.5678	0.09						
	B s	2.5678	0.09			23.48	> 0.26		Warner, 10
	B s	2.5678	0.09			23.48	> 0.28		Warner, 10
	B s	2.56783	0.05			23.47			Pravec, 11w
	B s	2.5907	0.07			23.58			Warner, 15
	B s	2.5678	0.09			23.4849	> 0.30	2.4	Pravec, 16
	B s	2.5677	0.08			23.47			Franco, 20
2178 Kazakhstania	BN	3.0183	0.31						
	B s	3.0183	0.31			18.504	> 0.26		Benishek, 18
2207 Antenor	B?	7.9647	0.24						
	? a	7.9647	0.23			27.066	> 0.19		Stephens, 18
2242 Balaton	B	2.7979	0.18						
	B s	2.79792	0.18			12.96	> 0.25		Marchini, 16
	B s	2.7979	0.18			12.96	> 0.25		Marchini, 16
2337 Boubín	BN	2.53163	0.06						
	B s	2.53163	0.06			16.09	> 0.16		Benishek, 19
2343 Siding Spring	M	2.10659	0.19						
	M s	2.10637	0.15	20.01	0.04	11.789	> 0.19		Pollock, 15
	B s	2.10639	0.15			11.7884			Oey, 17
2449 Kenos	B?	3.8492	0.40						
	? s	3.8481	0.14			15.85	> 0.23		Warner, 15
2478 Tokai	B	25.885	0.90						
	B f	25.885	0.41			25.885	> 0.72		Higgins, 07
	B f	25.88	0.78			25.88			Oey, 11
2486 Metsähovi	B	4.4518	0.13						
	? a	2.6404	0.12	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
	B a	4.4521	0.11	2.64040	0.03	172.6	> 0.02		Pray, 17
2491 Tvashtri	B	4.0852	0.24						
	B s	4.0852	0.08			26.712	> 0.24		Warner, 18
	B s	4.0852	0.08			26.712	> 0.24		Warner, 18
2516* Roman	BN	2.6266	0.07						
	B s	2.6266	0.07			16.220	0.23		Benishek, 19
2535* Hämeenlinna	B	3.23106	0.11						
	B s	3.23106	0.10	21.23	0.03	21.23	> 0.22		Benishek, 16
	B s	3.2311	0.11			21.200			Sada, 17
	B s	3.2312	0.09	10.615	0.05				Pravec, 18w
2577 Litva	M	2.81258	0.36						
	B s	2.8141	0.24			35.78	> 0.35		Warner, 09
	B s	2.81258	0.24	5.6842	0.09	35.81	> 0.34		Warner, 09
	B s	2.81288	0.23	5.6830	0.04	35.88			Warner, 11
2602* Moore	B	3.46723	0.34						
	B s	3.46723	0.15			27.455	0.28		Warner, 19
2623 Zech	B	2.7401	0.22						
	B a	2.7401	0.22	18.718	0.08	117.2	> 0.29		Pray, 14
2658 Gingerich	B?	2.9392	0.39						
	? s	2.9392	0.39						Molnar, 07
2691 Sersic	B	3.8811	0.22						
	B s	3.8811	0.21			26.81	> 0.43		Oey, 11
	B s	3.885	0.22	27.17	0.55				Oey, 16
2754 Efimov	B	2.44967	0.16						
	B s	2.4497	0.15			14.765	> 0.20		Pray, 06
	B s	2.4490	0.13			14.77	> 0.22		Pravec, 12
	B s	2.44967	0.16			14.776	> 0.22		Pravec, 12
	B s	2.44963	0.14			14.77578	> 0.22		Pravec, 12
2759 Idomeneus	B?	479.	0.27						
	? a	479.	0.19	32.17	0.10				Stephens, 18

Asteroid	Type	Per_1	Amp_1	Per_2	Amp_2	Per_{orb}	D_s/D_p	a/D_p	Reference
2815 Soma	B	2.73325	0.08						
	B s	2.73325	0.07			17.915	> 0.25		Pollock, 11
2825 Crosby	B	2.8135	0.10						
	B s	2.8135	0.08			14.350	> 0.18		Pray, 17
2873* Binzel	B	2.7036	0.14						
	B s	2.7036	0.11			42.9			Pravec, 19w
	B s	2.7034	0.09			42.9			Pravec, 19w
2881 Meiden	M	3.48011	0.23						
	M s	3.48011	0.12	3.7324	0.06	20.42	> 0.29		Polakis, 17
2883* Barabashov	B	2.6839	0.08						
	B s	2.6839	0.08			43.12	> 0.25		Durkee, 20
2937* Gibbs		2.9820	0.51						
	u	2.984	0.25	5.62	0.14				Warner, 19
3034 Climenhaga	B	2.737485	0.10						
	B s	2.737485	0.10			18.954			Oey, 13
3073 Kursk	B	3.4468	0.21						
	B s	3.4468	0.21			44.96	> 0.25		Kusnirak, 07
3076 Garber		2.7600	0.18						
	? a	2.7595	0.15						Oey, 13
3122* Florence	M	2.3581	0.37						
	? s	2.3580	0.12	10.36	0.07				Warner, 16
	M u	2.4				8.	> 0.04		Radar Team, 17
	? s	2.357	0.18	11.899	0.07				Rodrigo, 18
3145 Walter Adams	B?	2.7113	0.2						
	? s	2.7113	0.10			17.44	> 0.22		Owings, 11
3146 Dato		5.0540	0.27						
	? s	5.0540	0.23						Pravec, 14w
3169 Ostro		6.503	1.13						
	? f	6.482				6.482			Descamps, 05
	f	6.509	0.8			6.509			Descamps, 07
3220* Murayama	B?	4.8595	0.16						
	? u	4.8595	0.15						Tsuchikawa, 05
3309 Brorfelde	B	2.5041	0.23						
	B s	2.5041	0.09			18.48	> 0.26		Warner, 05
	B s	2.5046	0.10			18.45	> 0.28		Warner, 09
	B s	2.5041	0.09			18.48	> 0.28		Warner, 11
	B s	2.5044	0.10			18.46444	> 0.26		Pravec, 12
	B s	2.50429	0.09			18.46444	> 0.26		Pravec, 12
	B s	2.5041	0.09			18.45			Pravec, 12
	B s	2.50429	0.09			18.46444	> 0.26		Pravec, 12
	B s	2.50429	0.13			18.46444	> 0.26		Pravec, 12
	B s	2.503	0.10			18.51	> 0.29		Warner, 14
3352 McAuliffe	B?	2.2060	0.16						
	? s	2.2060	0.09			20.86			Warner, 12
3378 Susanvictoria	BN	2.5621	0.10						
	B s	2.5621				17.13	0.24		Pray, 17
3433* Fehrenbach	B	3.9160	0.34						
	B s	3.9160	0.27			19.665	> 0.31		Pray, 15
	B s	3.9163	0.24			9.8325			Pravec, 20w
	B s	3.91622	0.25			9.8325			Pravec, 20w
3562 Ignatius	B?	2.832	0.21						
	? s	2.832	0.09	16.00	0.18				Stephens, 19
3623 Chaplin	B	8.361	0.97						
	B f	8.361	0.80			8.361			Marchis, 12
3637 O′Meara		7.710	0.25						
	? s	4.118	0.25			13.8252	> 0.09		Aznar, 17
3671 Dionysus	B	2.7053	0.26						
	B s	2.705	0.12			27.74			Mottola, 97
	B s	2.7053	0.13			27.74	> 0.20	2.1	Pravec, 06
3673 Levy	B	2.6879	0.13						
	B s	2.68748	0.13			21.67	> 0.28		Pravec, 07w
	B s	2.6879	0.13			21.6	> 0.28		Pray, 07
3703 Volkonskaya	B	3.235	0.23						
	B s	3.235	0.22			24.			Ryan, 07
3704 Gaoshiqi		9.699	0.26						
	? u	9.7725	0.20						Oey, 13

Asteroid	Type	Per_1	Amp_1	Per_2	Amp_2	Per_{orb}	D_s/D_p	a/D_p	Reference
3743* Pauljaniczek		4.558	0.37						
	? s	4.5565	0.37			37.7			Oey, 19
3749* Balam	M	2.80483	0.19						
	B s					1920.			Merline, 02
	M s	2.80483	0.13			33.38	> 0.40		Marchis, 08
	B s	2.80490	0.14			33.385	> 0.42		Polishook, 11
	B s					33.3873			Behrend, 14w
	B s	2.805	0.10			33.38			Pravec, 17w
	B s	2.8051	0.19			33.38			Pravec, 17w
	B s	2.805	0.13			33.38			Pravec, 17w
	M s	2.8049	0.10			33.38			Pravec, 19
	M s	2.8051	0.17			33.38			Pravec, 19
	M s	2.8050	0.08			33.38			Pravec, 19
	M s	2.805	0.15			33.38			Pravec, 19
	M s	2.8051	0.17			33.38			Pravec, 19
3782* Celle	B	3.84	0.17						
	B s	3.839	0.15			36.57	> 0.42		Ryan, 03
	B s						> 0.42	3.3	Marchis, 12
3792* Preston	B?	2.9274	0.30						
	? s	2.92754	0.22			23.8			Pravec, 16w
	? s	2.92768	0.18			23.8			Pravec, 16w
	? a	2.92768	0.18	11.926	0.03				Benishek, 17
	? a	2.92754	0.22	11.909	0.04				Benishek, 17
3800 Karayusuf	B?	2.2319	0.19						
	? s	2.2319	0.15						Warner, 08
3841 Dicicco	B	3.5950	0.19						
	B s	3.5949	0.18			21.63	> 0.28		Klinglesmith, 14
	B 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						
	B s	2.77090	0.10			24.38	> 0.22		Oey, 09
	B s	2.77089	0.10			12.1944	> 0.17		Pravec, 12
3873 Roddy	B	2.4782	0.11						
	? s	2.4792	0.10			47.29	> 0.36		Warner, 08
	B s	2.4797	0.08			19.24			Warner, 13
	B s	2.47900	0.11			23.789			Warner, 13
3880* Kaiserman	B?	5.270	0.23						
	? s	5.227	0.08			22.16			Warner, 15
	? s	3.5006	0.25	16.09	0.05				Warner, 19
3905 Doppler	B	50.8	1.22						
	B f	50.8	1.22			50.8	> 0.77		Franco, 13
	B f	50.8	1.22			50.8	> 0.90		Hayes-Gehrke, 14
3951 Zichichi	B	3.39423	0.35						
	B s	3.39	0.25						Behrend, 09w
	? s	3.3944	0.32						Antonini, 11
	B s	3.39423	0.26			27.59	> 0.33		Husarik, 11
	B s	3.3942	0.26			27.59			Pravec, 13w
	B s	3.3942	0.29			27.59			Pravec, 13w
	B s	3.3942	0.26			27.59			Pravec, 13w
	B s	3.3942	0.32			27.59			Pravec, 13w
	B s	3.39	0.30						Behrend, 18w
3982 Kastel′	B?N	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
	? a	8.48548	0.28	5.83574	0.09				Oey, 17
4029 Bridges	B	3.5746	0.29						
	B s	3.5746	0.20			16.31	> 0.24		Higgins, 06
	B s	3.5748	0.25			16.30	> 0.25		Higgins, 11
	B s	3.57491	0.23			16.312			Pravec, 11w
	B s	3.5742	0.18			16.312			Pravec, 11w
	B s	3.5754	0.23			16.31701	> 0.27		Pravec, 12
	B s	3.5746	0.21			16.31701	> 0.27		Pravec, 12
	B s	3.5752	0.29			16.31701	> 0.27		Pravec, 12
	B s	3.57459	0.20			16.31701	> 0.27		Pravec, 12
4039 Souseki	B?	2.77196	0.24						
	? s	2.77203	0.24			26.42			Stephens, 18
4217 Engelhardt		3.0661	0.18						
	? s	3.0661	0.18	36.03	0.10				Warner, 12
4272 Entsuji	BN	2.8087	0.06						
	B s	2.8087	0.06			15.945	> 0.18		Benishek, 15
4288* Tokyotech	B	3.180	0.19						

Asteroid	Type	Per_1	Amp_1	Per_2	Amp_2	Per_{orb}	D_s/D_p	a/D_p	Reference
	B s	3.1800	0.18			30.264	> 0.30		Augustin, 19
4296 van Woerkom	B	2.80868	0.20						
	B s	2.8087	0.20			26.23	> 0.34		Odden, 17
	B s	2.80868	0.20			26.23	> 0.34		Odden, 17
4317* Garibaldi		8.917	0.20						
	? u	8.9131	0.20	10.798	0.08				Warner, 20
4383 Suruga	B	3.4069	0.14						
	B s	3.4069	0.14			16.386	> 0.22		Warner, 13
4435 Holt	B	2.8670	0.30						
	B s	2.8670	0.15			42.65	> 0.34		Stephens, 18
	B s	2.8670	0.30			42.65	> 0.34		Stephens, 18
4440 Tchantchès	B?	2.7883	0.34						
	? s	2.78836	0.29			18.68			Warner, 13
	? s	2.7884	0.31			15.35			Warner, 14
4492* Debussy	B	26.606	1.28						
	B f	26.606	0.48			26.606	> 0.65	2.4	Behrend, 06
	B f	26.606	0.39			26.606	> 0.65		Behrend, 06
	B f	26.574	1.28			26.574			Behrend, 16w
4495* Dassanowsky	AB	502.	0.33						
	B s	2.6314	0.06			18.516	> 0.26		Warner, 19
	? a	431.	0.33	5.95	0.02	18.10			Warner, 20
	B a	502.	0.21	2.631	0.05	18.523	> 0.24		Warner, 20
4514 Vilen	BN	2.89224	0.09						
	B s	2.89224	0.09			16.85	> 0.26		Pray, 15
4541 Mizuno	BN	2.82784	0.08						
	B s	2.82784	0.08			29.68			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
4605 Nikitin	B?	2.82726	0.08						
	? s	2.82726	0.08	11.902	0.05				Pravec, 17w
4607 Seilandfarm	B	3.9683	0.17						
	B s	3.9682	0.15			31.63			Pravec, 09w
	B s	3.9683	0.15			31.63	> 0.29		Pray, 09
	B s	3.9681	0.17			31.65			Pravec, 14w
4666 Dietz	B	2.95242	0.28						
	? s	2.95242	0.21			16.64			Pravec, 15w
	B s	2.9524	0.28			33.2	> 0.34		Oey, 18
4674* Pauling	B	2.5306	0.14						
	B a					1200.	> 0.31		Merline, 04
4718 Araki	B?T?	46.35	0.16						
	? a	46.35	0.16	19.373	0.10				Pravec, 17w
4765 Wasserburg	B	3.6231	0.60						
	B s	3.6231	0.17			15.97	> 0.17		Warner, 13
4786 Tatianina	B	2.9227	0.25						
	B s	2.9227	0.20			21.67	> 0.19		Pravec, 06w
	B s	2.9227	0.20			21.67	> 0.19		Pray, 06
4868* Knushevia		3.1422	0.12						
	? s	3.1422	0.09			11.922	> 0.13		Warner, 15
4951 Iwamoto	BT0	118.0	0.38						
	B f	118.0	0.34			118.0			Pravec, 07w
4963 Kanroku		2.616	0.13						
	? s	2.616	0.12	16.4032	0.03				Sokova, 18
5112 Kusaji	B	2.7995	0.20						
	B s	2.7995	0.12			20.74	> 0.31		Chiorny, 16
5143 Heracles	B	2.7063	0.22						
	? s	2.7063	0.05						Pilcher, 12
	B s					16.0	> 0.17		Taylor, 12
	? a	2.708	0.22	5.932	0.11				Lozano, 17
	? s	2.7072	0.19			17.114			Vaduvescu, 17
5175 Ables		2.6862	0.33						
	? s	2.7976	0.06	10.44	0.10				Warner, 14
5261 Eureka	B	2.6902	0.06						
	B s	2.6902	0.06			16.93	> 0.39		Koehn, 14
5381 Sekhmet	B	2.8233	0.36						

Asteroid	Type	Per_1	Amp_1	Per_2	Amp_2	Per_{orb}	D_s/D_p	a/D_p	Reference
	B s					12.	> 0.30	1.5	Nolan, 03
	B s	2.8233	0.36			12.379	> 0.25		Warner, 14
5402 Kejosmith	BN	2.69549	0.13						
	B s	2.69549	0.13			16.31	> 0.18		Benishek, 18
5407* 1992 *AX*	B	2.5488	0.12						
	B s	2.54878	0.11			13.520			Pravec, 00
	B s	2.5490	0.12			13.517			Pravec, 12w
	B s	2.54883	0.12			13.515			Pravec, 12w
5425 Vojtěch	B	2.64759	0.27						
	B s	2.64759	0.27			25.43	> 0.22		Stephens, 15
	B 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						
	B s	2.9943	0.11			24.42	> 0.37		Warner, 05
	B s	2.99408	0.11			24.424	> 0.45		Warner, 11
	B s	2.99408	0.10			24.41	> 0.39		Pravec, 12
	B s	2.99401	0.12			24.41	> 0.39		Pravec, 12
	B s	2.9932	0.10			24.37	> 0.38		Warner, 12
	B s	2.9940	0.10			24.4037	> 0.39	2.5	Pravec, 16
5481 Kiuchi	B	3.6196	0.20						
	B s	3.6196	0.10			20.90	> 0.33		Kusnirak, 08
	B s	3.6198	0.08			20.9			Pravec, 13w
	B s	3.6196	0.10			20.9062	> 0.35	2.2	Pravec, 16
5500* Twilley		2.955	0.15						
	B s	2.9554	0.15			17.556	> 0.27		Conjat, 19
5536 Honeycutt	B	3.5830	0.09						
	B s	3.5830	0.09			16.325	> 0.31		Benishek, 16
	B s	3.5830	0.09			16.325	> 0.34		Pravec, 16w
5626* Melissabrucker		2.48611	0.44						
	? a	133.6	0.13	2.735	0.04				Warner, 17
5646 1990 *TR*	B?	3.1999	0.32						
	? s	3.1999	0.12			19.47	> 0.18		Warner, 13
5674 Wolff	B	93.7	0.70						
	B f	93.7	0.52	93.7	0.52	93.7	> 0.80		Aznar, 16
	B f	93.7	0.52			93.7	> 0.80		Aznar, 16
5693* 1993 *EA*		2.496	0.13						
	? s	2.496	0.05	16.55	0.03				Warner, 17
5817* Robertfrazer	B	4.05083	0.33						
	B s	4.05083	0.32			28.862	> 0.19		Stephens, 20
5828 1991 *AM*	B?	2.6666	0.15						
	? s	2.6666	0.15			18.338			Warner, 13
5872 Sugano	B	3.3642	0.11						
	B s	3.3642	0.11			18.04	> 0.30		Pray, 16
5899 Jedicke	B	2.7481	0.11						
	B s	3.66	0.04			16.7	> 0.32		Warner, 10
	B s	3.66	0.04			16.7	> 0.32		Warner, 10
	B s	2.730	0.03			16.745	> 0.30		Warner, 13
	B s	2.7481	0.05			16.722	> 0.30		Warner, 13
	? s	2.751	0.11			16.44			Warner, 16
5905 Johnson	B	3.7824	0.20						
	B s	3.7824	0.11			21.785	> 0.40		Warner, 05
	B s	3.7827	0.10			21.78	> 0.38		Warner, 09
	B s	3.7814	0.19			21.775			Pravec, 11w
	B s	3.7814	0.19			21.775			Pravec, 11w
	B s	3.7814	0.18			21.775			Pravec, 11w
	B s	3.78142	0.20			21.775			Pravec, 11w
	B s	3.78222	0.08			21.756	> 0.38		Pravec, 12
	B s	3.7824	0.10			21.756	> 0.38		Pravec, 12
	B s	3.7823	0.16			21.7970	> 0.38	2.3	Pravec, 16
5968 Trauger		3.7879	0.36						
	? a	3.786	0.11			15.9			Warner, 14
6016 Carnelli	B	2.8028	0.07						
	B s	2.8028	0.07			21.33	> 0.20		Benishek, 16
6063 Jason		48.6	0.12						
	? a	682.	0.25	48.6	0.12				Warner, 17

Asteroid	Type	Per_1	Amp_1	Per_2	Amp_2	Per_{orb}	D_s/D_p	a/D_p	Reference
6084 Bascom	B	2.74542	0.23						
	B s	2.7454	0.22			43.5	> 0.37		Higgins, 06
	B s	2.7453	0.22			43.51	> 0.37		Pravec, 12
	B s	2.74516	0.14			43.51	> 0.37		Pravec, 12
	B s	2.74544	0.23			43.5			Pravec, 13w
6186 Zenon	MN	2.6832	0.08						
	M s	2.6832	0.08	3.2987	0.08	14.392	> 0.28		Benishek, 17
6244 Okamoto	B	2.8958	0.15						
	B s	2.8958	0.11			20.32	> 0.25		Higgins, 06
	B s	2.89585	0.15			20.32	> 0.23		Higgins, 11
	B s	2.8957	0.11			20.3105	> 0.25		Pravec, 12
	B s	2.89597	0.13			20.31	> 0.25		Pravec, 12
6245 Ikufumi	BN	2.9222	0.10						
	B s	2.9222	0.10			15.439	> 0.23		Benishek, 18
6265 1985 TW_3	B	2.70932	0.36						
	B s	2.7091	0.28			15.86	> 0.32		Bianchi, 21
	B s	2.7091	0.28			15.86	> 0.24		Higgins, 07
	B s	2.70932	0.35			15.845	0.30		Higgins, 11
	B s	2.7091	0.28			15.86	> 0.32		Pravec, 12
	B s	2.70931	0.36			15.86	> 0.32		Pravec, 12
6369* 1983 *UC*	B	2.39707	0.08						
	B s	2.39709	0.08			39.8			Pravec, 15
	B s	2.39712	0.06			39.80	0.37	3.4	Pravec, 19
6502 1993 XR_1	B?	4.1931	0.18						
	? s	4.1931	0.13						Pravec, 14w
	? s	4.1933	0.18						Pravec, 15w
6602 Gilclark		4.5686	0.54						
	? a	4.569	0.39			23.54			Warner, 14
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
6646* Churanta	B?	5.8711	0.77						
	? s	5.8712	0.77	16.01	0.06				Stephens, 20
6708 Bobbievaile	B	12.3415	0.41						
	B f	8.2255	0.09			24.682			Pravec, 09w
	B a	8.221	0.08			24.7			Pray, 09
6809 Sakuma	B?	2.5749	0.10						
	? s	2.5749	0.10						Pravec, 18w
6815 Mutchler	B?	2.4384	0.09						
	? s	2.4384	0.09						Pray, 07
6901 Roybishop	AB?	4.766	0.09						
	? s	4.682	0.04			17.157	> 0.19		Warner, 09
6944 Elaineowens		2.91280	0.18						
	? a	2.9131	0.16			62.3			Pravec, 14w
7002 Bronshten	B	2.67025	0.14						
	B s	2.67025	0.13			13.323	> 0.24		Warner, 19
7027 Toshihanda	B	36.304	0.30						
	B f	36.304	0.30			36.304	> 0.51		Warner, 17
7088* Ishtar	B	2.6790	0.11						
	B s	2.6790	0.11			20.65	> 0.42		Reddy, 05
	B s	2.6790	0.11			20.65	> 0.42		Pravec, 06w
	B s	2.6786	0.11			20.63	> 0.42	2.2	Pravec, 16
	B s	2.5776	0.18			20.70	> 0.37		Warner, 20
7132 Casulli		3.524	0.25						
	B a	3.5253	0.25						Behrend, 06w
7173 Sepkoski		2.5006	0.20						
	? s	2.5006	0.11						Warner, 14
7187 Isobe	B	4.2432	0.22						
	? s	4.2437	0.13			32.76			Warner, 13
	B s	4.247	0.18			32.66			Warner, 13
	? s	4.2427	0.09			33.22	> 0.17		Warner, 13
	B s	4.2431	0.15			32.69			Warner, 13
7225 Huntress	B	2.43995	0.11						
	B s	2.43995	0.11			14.67			Pravec, 07w
	B s	2.4400	0.11			14.67	> 0.21		Pray, 08

Asteroid	Type	Per_1	Amp_1	Per_2	Amp_2	$\mathrm{Per}_{\mathrm{orb}}$	$\mathrm{D}_s/\mathrm{D}_p$	a/D_p	Reference
7247* Robertstirling		3.17	0.15						
	? a	3.716	0.17			16.032			Warner, 13
7344 Summerfield	B	2.58975	0.17						
	B s	2.58975	0.17			17.41	$>$ 0.18		Pravec, 17w
	B s	2.58975	0.17			17.41	$>$ 0.18		Pray, 17
7369 Gavrilin	B	49.12	0.25						
	B f	49.12	0.25			49.12	$>$ 0.7		Higgins, 08
	B f	49.12	0.25			49.12	$>$ 0.7		Pravec, 08w
7393 Luginbuhl	B	2.68763	0.10						
	B s	2.68763	0.10			39.422	$>$ 0.40		Warner, 19
7758 Poulanderson	B?	2.64752	0.15						
	? s	2.6474	0.14			59.4			Warner, 12
7888 1993 *UC*	B	2.337	0.22						
	B s					35.			Brozovic, 13
7958 Leakey	B	2.34843	0.22						
	B s	2.34843	0.22			50.59	$>$ 0.30		Warner, 12
	B s	2.34855	0.22			49.5			Stephens, 16
	B s	2.34831	0.19			49.5			Stephens, 16
8026 Johnmckay	B?T0	372.	1.00						
	? a	372.	1.00	2.2981	0.10				Warner, 11
	? a	355.	0.70	14.93	0.16				Warner, 15
8077 Hoyle	B	2.7454	0.30						
	B s	2.746	0.18			53.862	$>$ 0.35		Klinglesmith, 16
8116 Jeanperrin	B	3.61692	0.10						
	B s	3.6169	0.09			36.15	$>$ 0.33		Higgins, 07
	B s	3.61692	0.09			36.15			Pravec, 07w
8306* Shoko	B	3.3503	0.13						
	? s	3.604	0.10						Polishook, 14
	B s	3.3503	0.11			36.20	$>$ 0.40		Pravec, 14
	B s	3.35015	0.13			36.20	$>$ 0.40	3.3	Pravec, 19
8373 Stephengould	B	4.435	0.39						
	B s	4.435	0.39			34.15	$>$ 0.27		Krugly, 10
8474 Rettig	B	30.54	0.93						
	B f	30.54	0.34	30.54	0.34	30.54	$>$ 0.86		Chiorny, 15
	B f	30.5595	0.90			30.5595			Oey, 17
9069* Hovland	B	4.217	0.12						
	B s	4.2174	0.08			30.35			Warner, 04
	B s	4.2173	0.09			30.292			Warner, 11
9260 Edwardolson	BN	3.0852	0.11						
	B s	3.0852	0.11			17.785	$>$ 0.27		Jakubik, 05
9332* 1990 SB_1	BN	2.98701	0.39						
	B s	2.98701	0.39			48.84	$>$ 0.26		Pravec, 19
9387 Tweedledee		3.534	0.15						
	? a	3.534	0.12	15.15	0.04				Stephens, 15
9474* Cassadrury	BN	2.7952	0.30						
	B s	2.7952	0.11			26.824	0.37		Conjat, 19
9617 Grahamchapman	B	2.2856	0.11						
	B s	2.2856	0.10			19.385	$>$ 0.27		Pray, 06
	B s	2.28561	0.11			19.385	$>$ 0.27		Pravec, 12
	B s	2.2856	0.10			19.3817	$>$ 0.27		Pravec, 12
9772 1993 *MB*	B?	5.3450	0.24						
	? a	5.3450	0.17	5.4292	0.06				Pravec, 15w
9783* Tensho–kan	B	3.0111	0.19						
	B s	3.0111	0.13			29.57			Pravec, 15
	B s	3.0108	0.19			29.5663	0.24	2.8	Pravec, 19
9972 Minoruoda	B	3.4221	0.11						
	B s	3.4221	0.11			22.89	$>$ 0.24		Cooney, 17
	B s	3.4221	0.11			22.89	$>$ 0.02		Pravec, 17w
10123* Fideöja	B	2.8657	0.08						
	B s	2.8657	0.06	38.8	0.03	56.45			Pravec, 15
	B s	2.8662	0.08			56.46	0.36	4.3	Pravec, 19
10132 Lummelunda	B	2.5099	0.20						
	B s	2.5099	0.11			22.44	$>$ 0.02		Benishek, 17
	B s	2.5099	0.11			22.44	$>$ 0.28		Benishek, 18
10150 1994 *PN*	B?	2.965	0.56						
	? s	2.965	0.23	10.55	0.12				Warner, 16

Asteroid	Type	Per_1	Amp_1	Per_2	Amp_2	$\mathrm{Per}_{\mathrm{orb}}$	$\mathrm{D}_s/\mathrm{D}_p$	a/D_p	Reference
10208 Germanicus	B	3.3484	0.13						
	B s	3.3484	0.13			58.55	$>$ 0.46		Oey, 07
10236* 1998 QA_{93}	B?	4.34841	0.36						
	? u	4.34841	0.24	24.	0.08				Pravec, 20w
10498 Bobgent	B?	3.45556	0.29						
	? a	3.45556	0.29	5.0785	0.23				Pravec, 17w
11001 Andrewulff	B?	3.9638	0.14						
	? s	3.9638	0.14						Pravec, 12w
11116* 1996 *EK*	B?	4.40140	0.17						
	? s	4.4017	0.08				$>$ 0.17		Pravec, 06w
	? s	4.4018	0.10						Pravec, 09w
11217 1999 JC_4		4.8219	0.11						
	? s	4.8219	0.11			19.17			Warner, 14
11227 Ksenborisova	B	2.61679	0.34						
	B s	2.61679	0.34			16.06			Behrend, 15w
11264 Claudiomaccone	B	3.1872	0.16						
	B s	3.1872	0.12			15.11	$>$ 0.30		Pravec, 06
	B s	3.1872	0.15			15.11			Krugly, 07
12008 Kandrup	B	32.9034	0.85						
	? f	32.9	0.84			32.9			Behrend, 16w
	B f	32.88				32.88	$>$ 0.75		Manzini, 16
12326 Shirasaki	BN	2.7286	0.12						
	B s	2.7286	0.12	12.7	0.03	25.06	$>$ 0.24		Pray, 17
12390 1994 WB_1		2.4629	0.09						
	? a	2.4629	0.09			15.94			Warner, 13
	? a	2.462	0.05			15.21			Warner, 13
12538* 1998 *OH*		2.575	0.28						
	? a	2.5262	0.11	2.4683	0.09				Warner, 19
13123 Tyson	B?	3.3303	0.35						
	? a	3.3302	0.20	3.862	0.04				Pravec, 16
13921* Sgarbini		3.679	0.12						
	? a	7.3681	0.1			43.4			Oey, 14
15268 Wendelinefroger	B	2.4224	0.07						
	B 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, 10
	? s	2.5273	0.10			23.96			Oey, 13
15700 1987 *QD*	B?	3.0586	0.23						
	? s	3.0856	0.07			50.3	$>$ 0.31		Durkee, 10
15745 Yuliya	B	3.2486	0.10						
	B s	3.2486	0.10			15.63	$>$ 0.43		Aznar, 18
	B s	3.2495	0.08			11.735	$>$ 0.46		Benishek, 18
	B s	3.256	0.03			15.60			Warner, 18
15778 1993 *NH*	B?	113.	0.61						
	? a	113.	0.61	3.320	0.04				Warner, 15
15822 Genefahnestock	B	2.95998	0.36						
	? s	2.9601	0.28			37.19			Warner, 11
	? a	2.9603	0.26			20.01	$>$ 0.22		Warner, 14
	B s	2.95998	0.27			20.13	$>$ 0.22		Warner, 14
16525 Shumarinaiko	B	2.5932	0.08						
	B s	2.5932	0.08			14.409	$>$ 0.17		Warner, 13
	B s	2.5932	0.08			14.409	$>$ 0.17		Warner, 13
16635 1993 *QO*	B	2.20827	0.17						
	B a	2.2083	0.17	7.622	0.05	32.25	$>$ 0.27		Pray, 07
17246 Christophedumas	B	10.	0.15						
	B a					2034.	$>$ 0.44		Tamblyn, 04
17260 Kušnirák	B	3.1285	0.18						
	B s	3.1287	0.15			14.757	$>$ 0.26		Higgins, 06
	B s	3.1288	0.17			14.7577	$>$ 0.26		Pravec, 12
	B s	3.12867	0.15			14.7577	$>$ 0.26		Pravec, 12
17700 Oleksiygolubov	B	3.8382	0.15						
	B s	3.8382	0.13			15.49	$>$ 0.31		Pray, 18
18303* 1980 *PU*	B	2.72627	0.10						
	B s	2.72627	0.10			12.27	$>$ 0.24		Benishek, 19

Asteroid	Type	Per_1	Amp_1	Per_2	Amp_2	Per_{orb}	D_s/D_p	a/D_p	Reference
18527 1996 VJ_{30}	BN	3.35290	0.13						
	B s	3.35290	0.13			19.07	> 0.32		Benishek, 18
18736* 1998 NU		2.4753	0.26						
	? s	2.473	0.11	12.513	0.05				Carreno, 19
	? s	2.4753	0.10	11.95	0.03				Warner, 19
18890* 2000 EV_{26}	B	3.8216	0.13						
	? s	3.882	0.09			14.42			Warner, 15
	B s	3.8216	0.10			14.29	> 0.27		Warner, 15
	B s	3.815	0.09			14.290	0.31		Warner, 16
	? s	3.8151	0.13	14.248	0.08				Stephens, 20
19204 Joshuatree	B?	480.	0.95						
	? a	480.	0.25	21.25	0.08				Stephens, 16
	? a	480.	0.05	21.25	0.05				Stephens, 16
20325 Julianoey	BN	3.24474	0.13						
	B s	3.24474	0.13			23.54	> 0.30		Pray, 14
20421 1998 TG_3		11.8905	0.19						
	? a	11.8905	0.16	8.046	0.04				Warner, 10
20460 Robwhiteley		2.7209	0.09						
	? u	2.7228	0.09	3.4174	0.08				Pravec, 17w
20882 Paulsánchez	B	2.5586	0.17						
	B s	2.5586	0.13			32.81	> 0.26		Warner, 19
	B s	2.5586	0.17			32.81	> 0.23		Warner, 19
	B s	2.5586	0.16			32.81	> 0.23		Warner, 19
20932 2258 T–1	B?	4.3245	0.17						
	? s	4.3245	0.09			12.02			Stephens, 16
21436* Chaoyichi	B	2.8655	0.10						
	B s	2.8655	0.10			81.19	0.36	5.5	Pravec, 19
22899 Alconrad	B	4.03	0.19						
	B a					1356.			Merline, 03
23615 1996 FK_{12}	B?	367.	0.23						
	? a	367.	0.23	3.6456	0.09				Warner, 15
23621 1996 PA	B	2.6649	0.10						
	B s	2.6649	0.07			20.60	> 0.27		Pray, 17
23999 Rinner	B	48.57	0.80						
	B a	48.57	0.80	48.57	0.80	48.57			Behrend, 18w
24465 2000 SX_{155}	B	2.66087	0.21						
	B s	2.66087	0.12			9.252	> 0.22		Stephens, 17
24495 Degroff	B?	24.083	0.58						
	? a	24.083	0.58	2.7375	0.19				Stephens, 17
24870 1996 FJ_1		3.10124	0.13						
	? a	3.10124	0.13			24.			Pravec, 15w
25015* Lairdclose	B	4.4011	0.27						
25021* Nischaykumar	B	2.5344	0.07						
	B s	2.5344	0.07			23.4954	0.28	2.4	Pravec, 19
25332 1999 KK_6		2.4531	0.10						
	? a	2.4139	0.06			29.13			Warner, 13
25884* Asai	B?	4.9169	0.55						
	? s	4.91684	0.36			73.5	> 0.28		Warner, 12
26074 Carlwirtz	B?	2.5493	0.20						
	? s	2.5493	0.11			16.11			Warner, 13
26083 1981 EJ_{11}	B?	347.	0.34						
	? a	347.	0.34	25.14	0.17				Warner, 18
26416* 1999 XM_{84}	B	2.907	0.20						
	? a	2.907	0.2						Polishook, 14
	B s	2.9660	0.07			20.7805	> 0.25	2.2	Pravec, 19
26420* 1999 XL_{103}	B	3.2	0.09						
	B s	3.2	0.09			47.80	> 0.34	3.9	Pravec, 19
26471 Tracybecker	B	2.68679	0.25						
	B s	2.6866	0.22			39.22	> 0.38		Warner, 09
	B s	2.68679	0.22			39.28	> 0.36		Warner, 10
	B s	2.6869	0.18			39.61	> 0.20		Warner, 13
26737* Adambradley		2.74491	0.25						
	? s	2.74491	0.25	30.	0.10				Stephens, 20

Asteroid	Type	Per_1	Amp_1	Per_2	Amp_2	Per_{orb}	D_s/D_p	a/D_p	Reference
27568* 2000 PT_6	B	3.4885	0.15						
	? s	3.4885	0.10			16.353	$>$ 0.22		Warner, 13
	B s	3.499	0.11			16.099	$>$ 0.23		Warner, 15
27675 Paulmaley	B	2.9661	0.13						
	B s	2.9661	0.11			120.1	$>$ 0.20		Pray, 17
27776 Cortland		2.6095	0.07						
	? a	2.615	0.07	5.06	0.04				Warner, 16
29168 1990 KJ	B?	2.58247	0.15						
	? s	2.58247	0.14			34.4			Pravec, 11w
	? s	2.5827	0.13			35.66			Stephens, 18
30019 2000 DD		5.4741	0.16						
	? a	5.4741	0.08			33.05			Warner, 12
30535 2001 OR_5	B?	2.9697	0.12						
	? a	2.9697	0.12			13.27			Warner, 15
31320* 1998 HX_2	B?	2.8149	0.16						
	? s	2.8149	0.16	47.06	0.13				Stephens, 19
31345 1998 PG	B	2.5163	0.11						
	B a	2.51620	0.11	7.0035	0.07				Pravec, 00
	B s	2.5163	0.05			15.992	$>$ 0.26		Warner, 19
31450 Stevepreston	B	3.4116	0.31						
	B a	3.4116	0.24			53.47	$>$ 0.22		Pray, 15
32008 Adriángalád	B	3.0171	0.19						
	B s	3.0171	0.19			40.24	0.40		Pravec, 07
32039 2000 JO_{23}	B	3.2990	0.05						
	B a	3.2990	0.05	11.099	0.08	360.	$>$ 0.58		Pray, 07
	B a	3.2990	0.05				$>$ 0.58		Pravec, 11w
32800 1990 QC_{19}		3.709	0.17						
	? a	3.7091	0.17			53.2			Warner, 11w
33046 1997 UF_2		2.67219	0.09						
	? a	2.67129	0.09						Pravec, 14w
34706 2001 OP_{83}	B	2.5946	0.16						
	B s	2.5944	0.13			20.76	$>$ 0.28		Warner, 05
	B s	2.5946	0.13			20.76	$>$ 0.28		Warner, 06
35107* 1991 VH	B	2.6236	0.15						
	B s	2.6236	0.08			32.74			Pravec, 97
	B s	2.6237	0.08			32.688	$>$ 0.39		Pravec, 98
	B s	2.6238	0.08			32.69	$>$ 0.40		Pravec, 06
	M s	2.6236	0.08	12.836	0.06	32.63	$>$ 0.37		Pravec, 06
	B s								Merline, 08
	B s	2.6239	0.15			32.26			Vander Haagen, 10
	B s	2.6241	0.06			32.513	$>$ 0.36		Warner, 20
38628* Huya	B	5.28	0.02						
	B u								Noll, 12
42355 Typhon	B	5.	0.15						
	B a						$>$ 0.50		Noll, 06
	B a					455.			Grundy, 08
43008* 1999 UD_{31}	B	2.64138	0.09						
	B s	2.64138	0.09			16.745	$>$ 0.35	1.9	Pravec, 19
43904 1995 WO		200.	0.34						
	a	4.589	0.05			98.			Oey, 14
44620* 1999 RS_{43}	B	3.1393	0.11						
	B s	3.1393	0.11			33.6455	0.39	3.1	Pravec, 19
45878 2000 WX_{29}	B?	3.9207	0.10						
	? a	3.9207	0.10	7.0584	0.09				Warner, 17
46037* 2001 DF_{33}	?	2.6865	0.23						
	? s	2.6865	0.23			17.03			Warner, 12
46829* McMahon	ABN	2.6236	0.12						
	B s	2.6236	0.12			16.833	$>$ 0.40		Pravec, 15
	B s	2.6236	0.11			16.833	0.40	2.0	Pravec, 19
47141 1999 HB_3	B?	2.8614	0.14						
	? s	2.8614	0.14			10.56			Warner, 16
47171 Lempo	B	6.21	0.06						
	B f								Trujillo, 02
	B f								Margot, 05
	B f								Stansberry, 05

Asteroid	Type	Per_1	Amp_1	Per_2	Amp_2	Per_{orb}	D_s/D_p	a/D_p	Reference
48639 1995 TL_8	BHN								
	B u								Stephens, 06
50000 Quaoar	1AB	8.840	0.18						
	B s								Brown, 07
	B s								Noll, 08
51356 2000 RY_{76}	AB	2.5572	0.09						
	B s	2.5572	0.09			62.05	> 0.21		Warner, 13
52316 Daveslater	B	2.7629	0.10						
	B s	2.7629	0.10			13.435	> 0.19		Warner, 13
52750 1998 KK_{17}	B?	26.43	0.24						
	? a	26.43	0.24	3.1308	0.16				Warner, 17
53110 1999 AR_7	B	2.7375	0.25						
	B s	2.7375	0.10			31.31	> 0.40		Warner, 16
53432 1999 UT_{55}	B	3.330	0.10						
	B s	3.330	0.10			14.10	> 0.24		Warner, 13
	B s	3.330	0.10			14.10	> 0.24		Warner, 13
54697 2001 FA_{70}	B?	3.05204	0.09						
	? s	3.05204	0.09			49.2			Pravec, 16w
	? a	2.7075	0.05	2.1239	0.04	16.269	> 0.19		Warner, 16
55637 2002 UX_{25}	ABH	14.382	0.21						
	B s								Brown, 07
	B s								Noll, 08
58534* Logos	BH	1.1	0.5						
	B a								Noll, 02
	B a					7440.		40.	Grundy, 11
60458 2000 CM_{114}	BHN								
	B f								Noll, 06
60621 2000 FE_8	BHN								
	B f								Noll, 07
65489 Ceto	B	4.43	0.08						
	B f	229.3				229.3			Grundy, 07
65803 Didymos	B	2.2593	0.08						
	B s	2.26				11.91	> 0.22		Pravec, 03
	B s	2.2593	0.08			11.900	> 0.22	1.4	Pravec, 06
	B s					11.906	> 0.22	2.8	Scheirich, 09
66063 1998 RO_1	B	2.4924	0.16						
	B s	2.4924	0.13			14.53	> 0.50		Pravec, 03
	B s	2.4924	0.13			14.54			Galad, 04
	B s					14.54	> 0.48	3.2	Scheirich, 09
66146 1998 TU_3		2.375	0.15						
	? s	2.37772	0.09			13.58			Warner, 18
66391* Moshup	B	2.7650	0.24						
	B s								Benner, 01
	B s	2.7645				17.4223			Ostro, 06
	B s	2.7650	0.12			17.45	> 0.30		Pravec, 06
	B s					17.42	> 0.46	3.2	Scheirich, 09
	B s	2.7660	0.14			17.452	> 0.38		Warner, 18
	B s	2.7644	0.15			17.468			Franco, 19
66652 Borasisi	BH		0.05						
	B a								Noll, 08
	B a					1110.9		16.3	Grundy, 11
67175* 2000 BA_{19}	B?	275.	0.35						
	? a	275.	0.25	2.7157	0.07				Warner, 13
68063 2000 YJ_{66}	B	2.1102	0.14						
	B s	2.1102	0.14			15.69			Warner, 15
68216* 2001 CV_{26}	B?	2.4290	0.36						
	? s	2.429	0.14	21.89	0.07				Stephens, 15
	? s	2.2492	0.24	15.83	0.14				Warner, 19
68348 2001 LO_7		3.3313	0.30						
	? s	3.8759	0.08			17.54			Warner, 15
	? s	3.3313		9.20	0.04				Vaduvescu, 17
69230 Hermes	B	13.894	0.08						
	B f	13.894	0.08			13.894			Behrend, 03w
	B f	17.				17.	> 1.0		Margot, 03
	B f	13.894	0.06			13.894	> 0.90		Pravec, 06
69406 1995 SX_{48}	B?	4.49	0.19						

Asteroid	Type	Per_1	Amp_1	Per_2	Amp_2	Per_{orb}	D_s/D_p	a/D_p	Reference
	? s	4.487	0.15			16.11	> 0.19		Warner, 14
70030 Margaretmiller	B?	4.3292	0.50						
	? s	4.3292	0.45			15.87			Warner, 12
72036 2000 XM_{44}	BN	2.5820	0.12						
	B s	2.5820	0.12			18.774	> 0.25		Benishek, 19
76818 Brianenke	B	3.1664	0.15						
	B s	3.1664	0.14			14.125	> 0.37		Warner, 05
	B s	3.16640	0.14			14.123	> 0.34		Warner, 09
	B s	3.1666	0.14			14.126	> 0.36		Warner, 11
	B s	3.16639	0.14			14.11960	> 0.35		Pravec, 12
	B s	3.16649	0.14			14.11960	> 0.35		Pravec, 12
	B s	3.1669	0.15			14.134	> 0.36		Warner, 14
79360 Sila–Nunam	B	300.24	0.15						
	B u								Stephens, 06
	B f								Noll, 08
	B f	300.24	0.17			300.24			Grundy, 12
	B f	300.24	0.15			300.24			Rabinowitz, 14
79472 Chiorny	B?	2.8802	0.27						
	? s	2.8796	0.19			16.14	> 0.34		Warner, 15
	? s	2.8800	0.19			15.51	> 0.34		Warner, 15
80218* 1999 VO_{123}	B	3.1451	0.21						
	B s	3.1451	0.21			33.1			Pravec, 15
	B s	3.1451	0.20			33.10	0.32	3.1	Pravec, 19
80806 2000 CM_{105}	BH		0.14						
	B u								Stephens, 06
	B f								Noll, 08
82066 2000 XG_{15}		11.23	0.19						
	? a	3.86	0.07	15.6	0.15				Warner, 15
82075 2000 YW_{134}	BH		0.1						
	B u								Stephens, 06
85275 1994 LY	B?	2.6962	0.16						
	? s	2.6962	0.11			48.5			Pravec, 07w
85628 1998 KV_2	AB?	2.999	0.18						
	? s	2.823	0.18	13.28	0.13				Warner, 18
85938 1999 DJ_4	B	2.5141	0.11						
	B s								Benner, 04
	B s	2.514	0.10			17.72	> 0.45		Pravec, 04
88611* Teharonhiawako	BN								
	B f								Elliot, 01
88710 2001 SL_9	B	2.4004	0.12						
	B s	2.4003	0.08			16.40	> 0.31		Pravec, 01
	B s	2.4013	0.12			16.19	> 0.32		Warner, 14
90403 2003 YE_{45}	B?	505.	0.82						
	? a	505.	0.82	2.7602	0.05				Warner, 20
90482 Orcus	B	13.188	0.18						
	B a								Brown, 07
	B a					228.9432			Brown, 10
94763* 2001 XM_{99}	B?	3.04	0.35						
	? u	3.04	0.35						Polishook, 10
99913 1997 CZ_5	B	2.833	0.20						
	B s	2.83507	0.19			14.68	> 0.19		Higgins, 11
100015 1989 SR_7	BN	2.4172	0.05						
	B s	2.4172	0.05			20.65	> 0.35		Benishek, 18
101668 1999 CR_{95}	B?	16.54	0.90						
	? f	16.54	0.90			16.54			Polishook, 12
112221* 2002 KH_4		12.866	0.13						
	? s	2.479	0.02	12.866	0.13		> 0.22		Warner, 19
114319 2002 XD_{58}	B?N	2.9649	0.14						
	? a	2.9649	0.14	7.954	0.08				Pray, 05
119067 2001 KP_{76}	BH								
	B f						> 0.95		Marchis, 08
119744 2001 YN_{42}	B?	625.	0.52						
	? a	625.	0.52	7.24	0.07				Warner, 14
119979 2002 WC_{19}	BHN		0.05						
	B f								Noll, 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
120347* Salacia	AB	6.09	0.06						
	B u								Noll, 06
	B s					131.851	$>$ 0.34		Stansberry, 12
123509 2000 WK_{183}	BHN								
	B f								Noll, 07
	B a					742.0		11.8	Grundy, 11
126719 2002 CC_{249}		11.87	0.79						
	? f	11.87	0.79			11.87			Thirouin, 17
134340 Pluto	M	153.2935	0.30						
	M f	153.2935	0.30			153.2935	$>$ 0.53		Tholen, 97
134860 2000 OJ_{67}	BH								
	B u								Stephens, 06
	B s								Noll, 08
136108 Haumea	B	3.9154	0.32						
	B a								Brown, 05
136199 Eris	B	25.9	0.10						
	B a								Brown, 06
136472* Makemake	AB	22.8266	0.03						
	B s								Parker, 16
136617 1994 CC	MR	2.38860	0.09						
	M a								Brozovic, 09
	M a	2.38860	0.09			29.832	$>$ 0.18		Brozovic, 11
136993 1998 ST_{49}	BR	2.3017	0.15						
	B s	2.3							Radar Team, 12
137170 1999 HF_1	B	2.3192	0.26						
	? s	2.319	0.12			14.017	$>$ 0.20		Pravec, 02
	? s	2.31927	0.13			14.017	$>$ 0.17		Pravec, 02
	B s	2.31927	0.12			14.02	$>$ 0.30		Pravec, 06
	B s	2.3192	0.17			14.03	$>$ 0.24		Pravec, 06
	B s	2.319	0.22			14.04	$>$ 0.23		Marchis, 12
139345 2001 KA_{67}	B?	44.25	0.47						
	? a	44.25	0.47	6.011	0.10				Stephens, 18
139775 2001 QG_{298}	B?	13.7744	1.14						
	? f	13.7744	0.7						Lacerda, 11
142040* 2002 QE_{15}		3.853	0.25						
	? a	47.1	0.11	3.891	0.15				Warner, 19
	? a	48.1	0.25	3.856	0.11				Warner, 19
148780 Altjira	B		0.3						
	B a								Noll, 08
	B a					3349.5		49.5	Grundy, 11
152858 1999 XN_{35}		2.990	0.18						
	? a	2.990	0.18						Hills, 13
152931* 2000 EA_{107}	B?	4.1367	0.29						
	? s	4.1367	0.29	16.079	0.16				Stephens, 19
153591 2001 SN_{263}	M	3.423	0.27						
	M s	3.20	0.27			46.1			Becker, 08
	B s	3.20	0.27			46.1			Betzler, 08
	M s						$>$ 0.50		Nolan, 08
	M s	3.4256				16.464	$>$ 0.31		Becker, 15
153958 2002 AM_{31}	B	2.8174	0.25						
	B s	2.8174	0.09			12.81			Pravec, 12w
	B s	2.8174	0.10			26.3			Taylor, 13
154244 2002 KL_6		4.6063	1.15						
	? s	4.60869	0.65	24.05	0.08				Warner, 16
160091 2000 OL_{67}	BH								
	B s								Marchis, 08
160256 2002 PD_{149}	BHN								
	B f								Noll, 07
162000 1990 OS	B	2.536	0.22						
	B s					21.			Ostro, 03
162361* 2000 AF_6		3.4558	0.18						
	? s	3.4558	0.18	14.654	0.09				Warner, 19
162483 2000 PJ_5	B?	2.642	0.25						
	? s	2.642	0.25			14.16			Polishook, 08

Asteroid	Type	Per_1	Amp_1	Per_2	Amp_2	Per_{orb}	D_s/D_p	a/D_p	Reference
163693 Atira	B	3.3980	0.36						
	B s					15.5	> 0.20	1.1	Rivera-Valentin, 17
164121 2003 YT_1	B	2.343	0.27						
	B s	2.343	0.16						Nolan, 04
	B s	2.343	0.27			30.			Pravec, 06
174567 Varda	B	5.91	0.04						
	B f	138.01512				138.01512		6.6	Grundy, 15
175706 1996 FG_3	B	3.5942	0.2						
	B s	3.595	0.10			16.15	> 0.33		Mottola, 00
	B s	3.5942	0.08			16.135	> 0.31		Pravec, 00
	B s					16.14	> 0.28	3.1	Scheirich, 09
	B s	3.595195				16.1508			Scheirich, 15
182933 2002 GZ_{31}	BHN								
	B s								Noll, 07
185851 2000 DP_{107}	B	2.7754	0.19						
	B s					42.5			Margot, 00
	B s								Ostro, 00
	B s	2.7754	0.19			42.24	> 0.37		Pravec, 00
	B s								Margot, 02
	B s					42.09			Scheirich, 09
	B s	2.77447	0.13			42.201	> 0.35		Warner, 09
	B s	2.7745	0.18			42.20			Warner, 11w
	B s	2.7745				42.131			Naidu, 15
190166 2005 UP_{156}	B	40.542	1.35						
	? f	40.6	0.53			40.6			Behrend, 17w
	B f	40.542				40.542	= 0.8		Warner, 17
	B f	40.572				40.572	= 0.8	3.0	Warner, 17
	B f	40.71	1.05			40.71			Benishek, 18
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						
	B s								Brown, 07
215442 2002 MQ_3	B?	473.	0.38						
	? a	473.	0.38	2.6491	0.31				Warner, 16
218144 2002 RL_{66}	B?T0	587.	0.32						
	? a	587.	0.25	2.49	0.04				Warner, 10
218322* 2003 YC_{65}	B?	41.	0.44						
	? a	41.	0.44	5.13	0.35				Stephens, 20
225088* Gonggong		22.40	0.04						
	B s								Marton, 16
	B s					605.29752			Kiss, 19
226514 2003 UX_{34}	BRN								
	B s					15.	> 0.36	1.6	Brozovic, 17
229762* G!kúnll'hòmdímà	BH	11.05	0.03						
	B s								Grundy, 11w
	B s					271.553			Grundy, 19
231927 2001 DU_{30}		24.4	0.90						
	? f	24.4	0.9			24.4			Polishook, 12
250162 2002 TY_{57}	BN	2.5001	0.09						
	B s	2.5001	0.09			10.765	> 0.18		Pravec, 19
252793 2002 FW_5	B?	61.2	0.33						
	? a	61.2	0.33	8.33	0.10				Warner, 17
274138 2008 FU_6		2.852	0.07						
	? a	2.852	0.07			12.70			Warner, 14
275809 2001 QY_{297}	B	11.68	0.49						
	B a					3314.6		31.2	Grundy, 11
276049* 2002 CE_{26}	BR	3.2930	0.07						
	B s	3.2930	0.06			15.6	> 0.07		Pravec, 06
	B s								Shepard, 06
	B s	3.088	0.07			16.26			Warner, 15
285263 1998 QE_2	BR	4.749	0.20						
	B s								Brozovic, 13
	? s	4.749	0.19			31.3			Pravec, 13w
300163 2006 VW_{139}	BHN	3240.							
	B f	3240.				3240.			Agarwal, 17
303712 2005 PR_{21}	BH								
	B s								Noll, 08

Asteroid	Type	Per_1	Amp_1	Per_2	Amp_2	Per_{orb}	D_s/D_p	a/D_p	Reference
310560* 2001 QL_{142}	B?	2.97387	0.15						
	? u	2.97387	0.15	15.58	0.10				Pravec, 19w
311066 2004 DC	BR	2.5709	0.25						
	B s								Taylor, 06
330825 2008 XE_3		4.409	0.23						
	? a	4.412	0.15			29.71			Hicks, 12
341520 Mors–Somnus	BN	9.28	0.24						
	B a					23000.			Sheppard, 11
	B a					23050.			Sheppard, 12
348400* 2005 JF_{21}	M	2.4149	0.16						
	M s								Naidu, 15
	? s	2.41437	0.11			29.			Oey, 16
	B s	2.4131	0.05			14.72	> 0.17		Stephens, 16
	B s	2.4157	0.07			14.74	> 0.19		Stephens, 16
357439* 2004 BL_{86}	B	2.6205	0.17						
	B s	2.6205	0.17			13.80	> 0.21		Pollock, 15
	B s						$= 0.22$		Radar Team, 15
363027 1998 ST_{27}	BR	3.	0.1						
	B s								Benner, 01
363599* 2004 FG_{11}	BR	7.021	0.30						
	B s					20.0			Taylor, 12
	? f					22.			Warner, 14
	B s	7.021				22.0			Dumitru, 18
364171* 2006 JZ_{81}	BHN								
	B u								Parker, 11
374851 2006 VV_2	B	2.425	0.57						
	B s								Benner, 07
	B s					6.1			Vereshchagina, 11
381677* 2009 BJ_{81}		325.	0.40						
	? a	325.	0.40	27.08	0.08				Warner, 19
385186 1994 AW_1	B	2.5193	0.17						
	? s					11.94			Mottola, 95
	B s	2.5193	0.13			22.40	> 0.53		Pravec, 97
	B s	2.5193	0.17			22.38	> 0.31		Birlan, 10
	M s	2.5182	0.14	4.508	0.08	22.34	> 0.33		Warner, 16
385446 Manwë	BHN								
	B s								Noll, 06
	B a					2643.1		31.8	Grundy, 11
399307 1991 RJ_2	B	3.4807	0.09						
	B s	3.4807	0.09			15.917	> 0.53		Warner, 15
399774 2005 NB_7	B	3.4882	0.15						
	B s	3.4833	0.13			15.28	> 0.32		Kusnirak, 08
	B s	3.4882	0.13			15.28			Pravec, 08w
	B s								Shepard, 08
	B s	3.472	0.15			15.267			Vander Haagen, 08
410777* 2009 FD	BR	4.0	0.46						
442243* 2011 MD_{11}	B?	2.430	0.15						
	? s	2.42752	0.15			21.70	> 0.17		Warner, 20
442742 2012 WP_3	B?	221.	0.30						
	? a	221.	0.30	8.19	0.03				Warner, 19
450649 2006 UY_{64}		2.824	0.09						
	? a	2.824	0.09	4.800	0.05				Warner, 16
450894 2008 BT_{18}	B	2.5702	0.30						
	B s						$= 0.35$		Benner, 08
	? s	2.5702	0.08						Pravec, 08w
451397 2011 EZ_{78}	B?	3.1150	0.45						
	? a								Skiff, 11w
452561 2005 AB	B	3.3387	0.10						
	B s	3.3387	0.10			17.93			Behrend, 05w
	B s	3.339	0.07			17.93	> 0.24		Reddy, 05
454177* 2013 GJ_{35}	B?	49.75	0.52						
	? a	49.75	0.52	2.8169	0.05				Warner, 19
461852 2006 GY_2	B	2.25	0.1						
	B s						$= 0.20$		Benner, 06
	B s								Benner, 11w

Asteroid	Type	Per_1	Amp_1	Per_2	Amp_2	Per_{orb}	D_s/D_p	a/D_p	Reference
463380 2013 BY_{45}	B?	425.	0.49						
	? a	425.	0.49	15.63	0.09				Warner, 16
464797 2004 FZ_1	B?	45.4	0.39						
	? a	45.4	0.39	12.49	0.16				Warner, 17
465616 2009 EC	B?	48.6	0.44						
	? a	48.6	0.44	3.261	0.13				Warner, 16
469514 2003 QA_{91}	BH								
	B a								Noll, 08
469581 2003 YU_{35}		2.7909	0.09						
	? s	2.7909	0.09	16.17	0.07				Warner, 17
469705* 2005 EF_{298}		9.65	0.31						
	B s								Grundy, 11w
477162 2009 ES	B?	28.0	0.33						
	? a	28.0	0.33	2.988	0.09				Warner, 17
481532 2007 LE	B	2.603	0.15						
	B s					13.	$= 0.36$		Brozovic, 12
	B s	2.603	0.15			33.5			Hicks, 12
485652* 2011 WO_{41}		4.609	0.14						
	? s	5.73	0.14			17.66	> 0.1		Vaduvescu, 17
486958* Arrokoth	BN	15.918	0.17						
	B f	15.918				15.918			Porter, 19
488453 1994 XD	BR	2.7365	0.08						
	B s						$= 0.25$		Benner, 05
	B s	2.7365	0.08			17.975	> 0.44		Warner, 13
489486* 2007 GS_3	BN	3.497	0.18						
	B s	3.497	0.06			41.36	> 0.46		Pravec, 19
	? a	348.7	0.74	15.187	0.07				Warner, 20
492143* 2013 OE	B?	77.51	0.89						
	? u	77.51	0.89	6.04	0.27				Warner, 20
494658 2000 UG_{11}	BR	4.44	0.10						
	B s								Nolan, 01
	B s	4.44	0.10			18.4	> 0.58		Pravec, 06
508869* 2002 VT_{130}	BHN		0.21						
	B u								Noll, 09
523604 2004 QB_{17}	B?	74.97	0.15						
	? a	74.97	0.15	2.3509	0.03				Warner, 19
523624 2008 CT_{190}	BN								
	B u								Noll, 18
523625 2008 DG_{17}	AB	3.643	0.08						
	B s								Radar Team, 13
523775 2014 YB_{35}	B	3.277	0.16						
	B s						$= 0.45$		Naidu, 15
524531* 2002 XH_{91}	BHN								
	B s								Noll, 09
525462* 2005 EO_{304}	BN								
	B a								Kern, 05
525816* 2005 SF_{278}	BN								
	B u								Benecchi, 18
532037* 2013 FY_{27}	BHN								
	B u							9.2	Sheppard, 18

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 first column contains letter code with the same meaning as in the footnote to the Table "Minor planet lightcurve parameters". In the second column 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. Code "u" means uncertain. For example, some systems are found to have two periods but there are no mutual events. Therefore, it is not always possible to say for certain that the two periods are the result of two bodies or low-level tumbling.

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.