

INTERNATIONAL ASTRONOMICAL UNION

COMMISSION G1 (BINARY AND MULTIPLE STAR SYSTEMS)

DOUBLE STARS INFORMATION CIRCULAR No. 219 (JUNE 2026)

NEW ORBITS

WDS HIP	Name ADS	P(yr) σ_P	T(yr) σ_T	e σ_e	a(") σ_a	i(°) σ_i	Ω (°) σ_Ω	ω (°) σ_ω	2026 2027	Author(s) Last obs.
00055+3406 461	HU 1201 51	48.93 ± 1.50	1983.52 ± 1.25	0.914 ± 0.050	0.128 ± 0.010	95.5 ± 1.0	129.8 ± 10.0	29.5 ± 20.0	303.29 0.0949 302.69 0.0816	D et al. 2025.8473
00360+3708 —	COU 850 —	62.91 ± 1.50	2055.59 ± 1.50	0.660 ± 0.005	0.260 ± 0.005	36.6 ± 1.0	130.2 ± 5.0	26.1 ± 7.0	334.20 0.4121 335.59 0.4088	D et al. 2025.8473
00508+3203 —	A 922 691	915.5 ± 150.0	1959.7 ± 0.6	0.83 ± 0.02	1.10 ± 0.04	91.5 ± 0.5	156.3 ± 0.5	88.2 ± 1.5	334.95 0.5976 334.93 0.5998	D et al. 2025.8473
00095+1907 768	COU 247 —	104.39 ± 4.50	2015.26 ± 0.15	0.297 ± 0.018	0.450 ± 0.015	137.2 ± 1.0	39.6 ± 0.5	177.4 ± 0.5	165.19 0.2911 159.40 0.2901	D et al. 2025.8471
01014+1155 4775	BU 867 828	266.73 ± 30.50	2001.08 ± 4.50	0.220 ± 0.070	0.829 ± 0.040	100.2 ± 1.0	353.2 ± 1.0	332.9 ± 7.0	348.63 0.6343 348.23 0.6281	D et al. 2025.8473
01014+3535 4783	COU 854 —	84.77 ± 2.50	1995.70 ± 0.70	0.245 ± 0.007	0.166 ± 0.003	163.0 ± 1.0	13.6 ± 6.0	74.6 ± 15.0	153.50 0.1926 150.59 0.1937	D et al. 2025.8447
01495+5645 —	A 950 1437	379.0 ± 40.0	1994.5 ± 0.2	0.361 ± 0.048	0.401 ± 0.020	51.2 ± 0.5	128.8 ± 1.0	110.4 ± 0.5	303.73 0.2958 304.74 0.2987	D et al. 2025.8447
02174+6121 10677	STF 234 1737	138.25 ± 5.50	1911.29 ± 5.00	0.691 ± 0.008	0.520 ± 0.007	123.1 ± 1.0	62.5 ± 6.0	10.5 ± 11.0	209.63 0.4488 208.19 0.4308	D et al. 2025.8447
02186+4017 10772	EGG 2 1763	37.00 ± 0.40	2017.69 ± 0.05	0.501 ± 0.003	0.166 ± 0.002	55.5 ± 0.5	140.8 ± 0.5	199.3 ± 0.5	125.32 0.1789 129.09 0.1946	D et al. 2025.8448
02202+2949 10892	A 961 1780	225.18 ± 15.25	2127.16 ± 7.25	0.422 ± 0.015	0.459 ± 0.015	118.9 ± 2.5	162.2 ± 3.0	81.2 ± 6.0	253.37 0.3131 251.86 0.3127	D et al. 2025.8448
04202–0345 20242	YSC 30 —	34.0 ± 4.4	2028.176 ± 0.265	0.422 ± 0.052	0.2008 ± 0.0185	126.2 ± 3.8	104.3 ± 3.5	111.3 ± 11.5	64.5 0.101 33.3 0.075	TOK 2026.082
04422+2257 21881	MCA 16Aa,Ab —	63.69 ± 0.77	1980.827 ± 0.106	0.3486 ± 0.0075	0.2883 ± 0.0015	133.6 ± 1.0	2.0 ± 0.8	151.8 ± 2.4	352.1 0.336 349.3 0.325	TOK 2026.082
06354–0403 —	JNN 271 —	3.4659 ± 0.0201	2021.264 ± 0.038	0.5429 ± 0.0247	0.1177 ± 0.0028	86.8 ± 0.6	170.0 ± 0.6	226.2 ± 3.4	171.8 0.151 177.5 0.067	TOK 2026.083
06490–1509 32677	AC 4 5487	598 ± 180	2035.15 ± 1.98	0.7075 ± 0.0246	0.904 ± 0.190	53.5 ± 4.9	149.4 ± 2.0	285.6 ± 13.2	19.5 0.206 24.7 0.194	TOK 2026.088
06538–4307 33111	HDS 955 —	100 ...	2033.617 ...	0.520 ...	0.340 ...	104.0 ...	88.2 ...	151.5 ...	52.0 0.088 36.9 0.065	TOK 2026.083
06584–1300 33560	HDS 969AB —	54.44 ± 2.56	1982.16 ± 1.22	0.368 ± 0.053	0.6732 ± 0.0202	95.1 ± 0.2	39.4 ± 0.3	203.5 ± 1.7	300.1 0.061 254.8 0.099	TOK 2025.771
07060–1247 —	RST4335 —	111.1 ± 5.3	2022.685 ± 0.126	0.8251 ± 0.0097	0.3225 ± 0.0147	138.5 ± 4.0	149.3 ± 6.7	171.4 ± 4.2	232.6 0.096 220.0 0.117	TOK 2026.088

NEW ORBITS (continuation)											
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07122–1916	HDS1000	100	2022.053	0.569	0.093	114.7	81.6	1.3	48.6 0.031	TOK	
34797	–	...	...	...	...	...	...	...	36.0 0.028	2025.771	
07143–2621	FIN 323	103.5	1970.7	0.481	0.1314	76.7	137.7	75.2	11.0 0.055	TOK	
34981	–	±7.8	±3.5	±0.086	±0.0134	±2.0	±1.6	±8.5	15.3 0.052	2026.282	
07546–0248	STF1157	1380	2034.5	0.597	1.690	147.1	29.1	243.5	161.5 0.618	TOK	
–	6454	...	...	...	...	...	...	...	160.2 0.615	2025.927	
08275–5501	FIN 116	139.6	1993.754	0.5651	0.2760	121.6	58.5	73.3	218.4 0.294	TOK	
41464	–	±4.9	±0.195	±0.0158	±0.0058	±1.0	±1.1	±1.9	217.5 0.295	2026.088	
08317+1924	DEL 1Ba,Bb	44.3	1992.1	0.611	0.606	127.4	3.9	354.7	165.3 0.708	TOK	
–	–	±7.8	±3.3	±0.215	±0.078	±13.0	±7.1	±13.1	162.2 0.655	2025.927	
10089–2945	HDS1462	100	2026.144	0.742	0.268	89.7	68.1	198.9	248.2 0.067	TOK	
49709	–	...	...	...	...	...	...	...	248.4 0.048	2026.282	
10260+0256	A 2570	247	2023.066	0.8237	0.3212	109.8	118.5	306.3	115.1 0.075	TOK	
51061	7769	±35	±0.110	±0.0165	±0.0243	±0.8	±0.7	±2.6	110.3 0.081	2026.080	
10262–6318	TOK 891	17.8	2024.126	0.238	0.087	104.0	82.8	152.5	254.3 0.063	TOK	
51083	–	...	...	...	...	...	...	...	242.3 0.047	2026.277	
10294+1211	HDS1507	15.493	2011.332	0.3672	0.1014	31.4	83.0	113.2	150.9 0.060	TOK	
51360	–	±0.090	±0.100	±0.0108	±0.0012	±1.7	±3.7	±3.7	209.9 0.058	2026.080	
10367+1101	BAG 3	6.0854	2025.389	0.7513	0.0685	94.6	253.1	33.3	74.4 0.056	TOK+RV	
51945	–	±0.0148	±0.127	±0.0306	±0.0049	±1.4	±1.1	±9.4	72.0 0.098	2026.080	
10388–4245	FIN 338	80.21	2020.65	0.4663	0.1529	98.3	37.2	182.9	197.9 0.040	TOK	
52112	–	±2.43	±0.52	±0.0090	±0.0027	±0.7	±0.5	±4.1	186.3 0.029	2026.282	
10508–5920	FIN 170	256	1940.3	0.0	0.321	138.8	210.5	0.0	82.4 0.264	TOK	
53017	–	...	...	...	...	...	...	...	80.9 0.266	2025.932	
11262–5823	YMG 38	11.17	2026.890	0.438	0.0936	142.8	113.7	67.2	115.6 0.066	TOK	
–	–	±1.43	±0.103	±0.093	±0.0031	±10.0	±10.2	±5.0	39.6 0.043	2026.088	
11515–2138	TOK 847	18.26	2028.113	0.050	0.105	64.3	211.6	184.1	10.6 0.081	TOK	
57827	–	...	...	...	...	...	...	...	22.6 0.095	2025.932	
11547–1401	TOK 719	21.0	2026.40	0.381	0.1194	115.0	62.5	97.7	352.7 0.033	TOK	
58084	–	±4.3	±0.46	±0.045	±0.0179	±3.3	±2.5	±21.4	276.6 0.049	2026.080	
12463–6050	B 1722	203.6	2016.258	0.8594	0.2509	38.1	17.2	118.2	259.0 0.117	TOK	
62324	–	±22.4	±0.126	±0.0110	±0.0141	±2.8	±3.7	±3.8	262.1 0.124	2026.083	
12479–5127	TOK 720	11.237	2024.307	0.2097	0.0537	146.3	113.1	168.7	232.0 0.042	TOK	
62445	–	±0.161	±0.123	±0.0099	±0.0010	±2.9	±4.6	±7.9	192.7 0.046	2026.083	
13000–4123	I 1224	200	2095.818	0.350	0.313	79.5	161.4	78.1	131.1 0.136	TOK	
–	–	...	...	...	...	...	...	...	132.7 0.141	2026.083	
13382–2341	TOK 404Aa,Ab	17.6546	2017.2617	0.9527	0.1764	88.0	67.0	116.8	62.9 0.155	TOK+RV	
66530	–	±0.0022	±0.0147	±0.0065	±0.0132	±2.8	±6.1	±1.7	63.2 0.163	2025.043	
13401–6033	TOK 292Ca,Cb	26.83	2022.5	0.043	0.1572	161.2	23.8	136.7	197.3 0.153	TOK	
–	–	±3.04	±4.2	±0.070	±0.0032	±10.7	±18.8	±50.6	183.8 0.153	2026.083	

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14013+0042	HDS1969Aa,Ab	32.13	2013.50	0.883	0.0943	93.9	38.3	181.9	38.5 0.172	TOK	
68486	–	±2.87	±0.78	±0.034	±0.0038	±2.2	±1.3	±17.0	38.4 0.175	2024.468	
14117–4105	HDS1992	300	2023.218	0.722	0.176	128.6	153.8	350.8	141.3 0.050	TOK	
69354	–	...	...	...	...	...	...	...	134.8 0.050	2026.274	
14261–6536	HDS2031	32.31	2010.38	0.203	0.1360	113.7	74.8	1.4	255.8 0.163	TOK	
70573	–	±0.80	±1.92	±0.071	±0.0057	±3.2	±1.0	±15.8	252.8 0.163	2026.083	
14554+0010	A 2171	68.39	2016.98	0.800	0.1653	131.8	98.9	336.2	326.6 0.133	TOK	
–	9436	±1.70	±0.97	±0.046	±0.0111	±10.0	±8.9	±8.0	323.6 0.145	2025.272	
15433–0515	TOK 594Aa,Ab	3.7097	2023.076	0.888	0.0505	29.5	30.5	269.6	138.2 0.064	TOK+RV	
76998	–	±0.0286	±0.089	±0.039	±0.0098	±22.0	±43.1	±36.5	76.3 0.031	2025.207	
17178–3406	B 1333	610	2061.0	0.650	0.452	111.9	122.5	217.2	327.7 0.177	TOK	
84613	–	...	...	...	...	...	...	...	326.6 0.178	2025.685	
19307+2758	MCA 55	239.3	2010.9	0.4458	0.6448	138.44	115.1	27.0	30.3 0.315	MAS	
95947	12540	3.8	1.0	0.0041	0.0049	0.40	1.3	1.4	26.1 0.320	2024.72	
23480–1930	HDS3380	142	2018.68	0.591	0.223	36.9	57.2	14.3	143.0 0.099	TOK	
117377	–	±41	±0.52	±0.079	±0.046	±4.8	±7.4	±3.8	150.9 0.104	2025.932	

D et al. = José Ángel Docobo, Pedro Pablo Campo, Luca Piccotti, Valeri Orlov, Francy Carolina Rojas & René A. Méndez

TOK = Tokovinin

TOK+RV = Tokovinin, uses radial velocities

MAS = Brian D. Mason

Note of the Editor

In Circular No. 120 (June 1993), Paul Couteau wrote: *"Le premier numéro de la Circulaire de la Commission est de février 1954. Paul Muller en a assumé la composition et l'édition jusqu'en octobre 1983 (Ci n° 90). Puis j'ai pris la suite. A mon tour je transmets la responsabilité de la Circulaire. Le Pr. J. A. DOCOBO, directeur de l'Observatoire Astronomique RAMON MARIA ALLER, Université de St Jacques de Compostelle, Espagne, veut bien assumer cette charge avec l'accord de l'U.A.I. Qu'il en soit remercié, la Circulaire sera en très bonnes mains. Au cours de ces dix dernières années, j'ai apprécié le concours efficace de mes collègues, je les en remercie sincèrement"*.

Indeed, more than three decades ago I accepted the editorship of the Circular, and the first decisions I made were three: to use the English language, to request an ISSN number for it, and to invite my colleague and former doctoral student, Josefina Ling, to participate. In 2023, Ling retired, but I continued with the Circular alone. Before that, following a suggestion from Andrei Tokovinin, but also based on what I had been thinking about for some time, we incorporated uncertainties into the values of the elements of the new orbits. Thirty-three years have now passed since that distant date when I received the baton. I feel strong enough to continue, but it is clear that young people must join in to ensure the Circular's future. That is why, starting with issue No. 220 (October 2026), Pedro Pablo Campo and Luca Piccotti will also be co-editors. Both completed their doctoral theses with me, are members of the G1 Commission, work effectively in the field of binary systems, and are trustworthy individuals.

J.A. DOCOBO

The deadline for contributions to Information Circular No. 220 is:

October 15th 2026

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