

INTERNATIONAL ASTRONOMICAL UNION COMMISSION 26

(DOUBLE STARS)

INFORMATION CIRCULAR No. 160 (OCTOBER 2006)

NEW ORBITS

ADS α 2000 δ	Name n	P a	T i	e ω	Ω (2000) Last ob.	2006 2007	Author(s)
30 00046+4206	CHR 122 Aa 5.1339	70 ^y 12 0"165	2050.07 104°8	0.515 295°1	100°6 1996.5378	344°2 0"067 337.8 0.072	NOVAKOVIC
440 00321+6715	GL 22 Aa 23.0179	15.64 0.511	2000.76 44.6	0.174 106.8	175.1 2004.9902	49.1 0.443 71.8 0.424	DOCOBO & TAMAZIAN
440 00321+6715	GL 22 Aa-B 1.6194	222.3 3.310	2081.84 47.3	0.296 146.2	174.7 2005.8029	174.9 4.001 175.6 3.984	DOCOBO et al. (*)
2756 03454-2752	BU 1003 1.2572	286.34 2.145	1997.42 34.7	0.479 101.7	81.7 2001.8623	222.6 1.083 226.1 1.110	NOVAKOVIC
2921 03596-1019	HU 29 2.9036	123.98 0.234	1939.63 64.5	0.879 349.3	135.8 1997.030	311.9 0.434 312.1 0.434	CVETKOVIC
2928 04008+0505	A 1937 8.5066	42.32 0.126	1972.75 53.3	0.859 75.4	149.9 1995.9321	65.8 0.108 69.6 0.102	BRENDLEY & HARTKOPF
2959 04041+3931	STF 483 0.7263	495.65 2.482	1909.98 110.8	0.706 321.1	190.2 2003.053	58.4 1.375 57.8 1.393	BRENDLEY & MASON
3326 04362+0814	A 1840 AB 2.2018	163.5 0.220	1840.71 143.4	0.436 58.2	79.4 1996.869	14.6 0.103 7.3 0.103	BRENDLEY & HARTKOPF
3358 04400+5328	STF 566 AB-C 0.7488	480.75 1.514	2027.79 128.4	0.229 307.1	110.8 2005.090	183.9 0.759 182.1 0.763	CVETKOVIC
- 04403-5857	HJ 3683 1.1037	326.17 2.435	1919.36 100.9	0.95 338.1	263.6 2002.704	89.8 3.546 89.8 3.567	BRENDLEY & MASON
- 04496-5353	I 342 0.4147	868.05 3.827	2743.45 127.0	0.915 127.3	74.6 2001.8734	135.0 3.094 134.9 3.110	NOVAKOVIC

NEW ORBITS (continuation)

ADS α2000δ	Name n	P a	T i	e ω	Ω(2000) Last ob.	2006 2007	Author(s)
3610 05010-1112	A 2629 2.5531	141.0 0.192	1958.27 117.1	0.803 102.4	103.1 1996.863	190.5 0.146 189.3 0.148	SCARDIA et al. (**)
4236 05394+4343	A 1564 1.9813	181.7 0.232	1845.8 71.0	0.207 50.6	160.8 1997.1254	157.0 0.199 157.9 0.199	BRENDLEY & HARTKOPF
5092 06274-2544	B 114 5.9892	60.11 0.430	1977.75 34.2	0.584 64.2	118.9 1996.8987	354.7 0.592 356.9 0.590	CVETKOVIC
6454 07546-0248	STF 1157 0.2486	1448. 1.827	2002.98 130.2	0.443 246.6	64.7 2003.53	185.8 0.715 184.8 0.711	LING
6796 08254+3723	HU 856 4.4669	80.59 0.227	1948.61 42.9	0.534 85.2	3.9 1992.2199	306.9 0.238 309.4 0.236	CVETKOVIC
7334 09228-0950	A 1342 6.9808	51.57 0.169	1949.56 68.6	0.090 115.1	26.5 1996.1783	196.7 0.145 200.0 0.153	RICA
8311 11486+1417	BU 603 2.6471	136.0 0.702	1941.11 148.0	0.808 98.3	255.8 2005.34	337.8 1.078 337.2 1.079	BRENDLEY & MASON
8485 12160+4807	HU 736 1.4666	245.47 0.305	1949.77 153.4	0.427 314.7	275.9 1997.4	193.0 0.305 191.8 0.308	BRENDLEY & HARTKOPF
9094 14037+0829	BU 1270 9.2916	38.74 0.195	1989.96 26.6	0.435 40.3	116.6 2003.476	320.7 0.269 324.6 0.270	BRENDLEY & MASON
- 14138+3059	COU 606 13.8943	25.91 0.183	2010.57 147.5	0.347 175.8	48.3 2005.5179	339.4 0.151 321.2 0.134	DOCOBO & LING
9654 15282+0251	A 2175 1.6503	218.14 0.263	1495.5 65.5	0.500 254.4	177.6 1998.446	204.7 0.257 205.4 0.256	BRENDLEY & MASON
9747 15420+0027	A 2176 6.6988	53.74 0.158	1987.58 34.6	0.703 276.3	100.0 2001.5638	180.0 0.206 182.2 0.209	BRENDLEY & MASON
10007 16198+2646	A 225 8.3064	43.34 0.129	2005.90 114.4	0.489 183.1	117.5 2005.5179	295.1 0.066 282.6 0.060	ANDRADE
- 16254+3724	CHR 55 5.7334	62.79 0.321	1990.01 96.5	0.648 292.3	177.4 1997.1266	130.0 0.066 116.6 0.057	BRENDLEY & HARTKOPF

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ADS α2000δ	Name n	P a	T i	e ω	Ω(2000) Last ob.	2006 2007	Author(s)
10404 17141-0824	BAR 7 0.8409	428.12 2.265	2216.98 124.5	0.186 278.4	170.0 1997.5800	62.3 1.571 61.4 1.577	NOVAKOVIC
10899 17563+0259	A 2189 2.3301	154.5 0.218	1976.35 71.7	0.496 327.6	153.3 2005.5235	254.2 0.074 259.5 0.077	DOCOBO & TAMAZIAN
11071 18063+3824	HU 1186 3.4516	104.3 0.32	1925.94 76.3	0.401 355.8	281.2 2000.54	116.2 0.244 117.5 0.228	BRENDLEY & MASON
11071 18063+3824	HU 1186 3.2025	112.41 0.295	1932.38 74.5	0.466 199.5	99.2 2000.540	113.5 0.300 114.2 0.291	CVETKOVIC
11584 18374+7741	STT 363 0.8889	405. 0.735	1986.20 76.8	0.872 61.6	159.5 2005.76	342.8 0.417 343.1 0.429	ALZNER
11574 18410+2450	A 2988 6.3058	57.09 0.103	1941.38 153.3	0.694 297.7	321.3 1995.6007	253.9 0.090 249.0 0.097	RICA
11692 18462+6412	HU 937 1.5962	225.53 0.997	1678.60 80.1	0.800 304.4	166.8 2003.691	330.9 0.959 331.1 0.967	BRENDLEY & MASON
12145 19111+3847	SE 2 BC 5.7334	62.79 0.379	1956.62 113.4	0.496 4.6	271.5 2001.4989	63.6 0.289 59.8 0.260	BRENDLEY & HARTKOPF
12552 19302+5639	A 712 3.7732	95.41 0.177	1972.92 99.0	0.567 263.0	98.6 1996.6903	81.1 0.120 80.0 0.116	BRENDLEY & MASON
12552 19302+5639	A 712 3.6336	99.08 0.180	1972.96 99.7	0.557 262.2	98.2 1996.6903	81.6 0.132 80.7 0.128	CVETKOVIC
- 19531-1436	CHR 90 5.9857	60.14 0.268	2001.65 137.1	0.770 51.2	73.5 1996.532	258.2 0.185 253.1 0.213	CVETKOVIC
- 20311+3333	COU 1962 10.8663	33.13 0.213	1979.57 71.5	0.189 25.0	109.9 2005.5179	69.6 0.096 83.0 0.119	DOCOBO & LING
15236 21423+0555	HU 280 2.1123	170.43 0.214	1794.63 46.3	0.054 315.3	315.1 2000.5	352.5 0.180 354.6 0.178	BRENDLEY & HARTKOPF
15251 21426+4103	BU 688 AB 3.2529	110.67 0.394	1948.42 100.4	0.979 122.1	185.2 2004.21	201.0 0.435 200.9 0.436	BRENDLEY & HARTKOPF

NEW ORBITS (continuation)

ADS α 2000 δ	Name n	P a	T i	e ω	Ω (2000) Last ob.	2006 2007	Author(s)
16164	HO 188	193.15	2024.44	0.219	219.5	221.3 0.360	BRENDLEY
22402+3732	1.8638	0.430	69.4	57.4	2002.764	222.2 0.356	& MASON

(*) DOCOBO, TAMAZIAN & CAMPO

(**) SCARDIA, PRIEUR, PANSECCHI & ARGYLE

Summary of Prague Business Meeting

W.I. Hartkopf, USNO

This is a summary of the business meeting of Commission 26, which took place on 17 August 2006, during the XXVIth IAU General Assembly in Prague. It was chaired by its outgoing president, W. Hartkopf, and was attended by the following: H. Abt, C. Allen, W. van Altena, R. Argyle, G. van Belle, D. Bisikalo, A. Bradley, T. ten Brummelaar, T. Corbin, R. Costero, J. Davis, H. Dickel, J. A. Docobo, J. Echevarria, F. Fekel, E. Griffin, P. Harmanec, W. Hartkopf, P. Lampens, O. Malkov, B. Mason, H. McAlister, T. Oswalt, D. Pourbaix, A. Poveda, D. Raghavan, W. Sanders, C. Scarfe, W. Tango, A. Tokovinin, S. Urban, R. Wilson, and H. Zinnecker.

W. Hartkopf started with a report on events during the past triennium. He announced the deaths, during that period, of members G. Douglass, W. Heintz, and R. Walker and the meeting observed a few moments of silence in their memory.

The Commission then welcomed the following 26 new members: J. Ahumada (Argentina), C. Bailyn (USA), Z. Cvetkovic (Serbia), R. Dukes, Jr. (USA), V. Elkin (United Kingdom), L. Freyhammer (United Kingdom), S. Goodwin (UK), T. Hillwig (USA), L. Kazantseva (Ukraine), L. Kisseleva-Eggleton (USA), S. Kitsionas (Germany), W. Kley (Germany), J. Lim (China Taipei), Y. Lyubchik (Ukraine), V. Marsakova (Ukraine), D. McDavid (USA), M. Mikolajewski (Poland), I. Negueruela (Spain), R. Neuhaeusen (Germany), D. Nurnberger (Chile), V. Orlov (Russia), M. Petr-Gotzens (Germany), D. Pollacco (UK), L. Roberts, Jr. (USA), A. Smith (USA), and A. Zheleznyak (Ukraine). This brings the total membership of Commission 26 to 151, from 35 countries.

The chairman then reported on the recent election, in which just over half the membership voted. For the period 2006 to 2009, the president will be C. Allen, and the vice-president, J. A. Docobo. The OC will be made up of new members Y. Balega, B. Mason, D. Pourbaix, and C. Scarfe, along with continuing members J. Davis, E. Oblak

and T. Oswalt. Four new OC members were added rather than the usual three, due to a tie in the vote.

W. Hartkopf gave a short summary of developments at the Commission's website, and invited suggestions for further improvements. J. A. Docobo then gave a report on Commission 26 circulars.

Andrei Tokovinin gave a brief account of the ESO workshop "Multiple Stars across the H-R Diagram", held July 2005 in Munich. Announcements were then made of upcoming meetings, including IAU Symposium 240 ("Binary Stars as Critical Tools and Tests in Contemporary Astrophysics"), to be held later during the Prague GA, and Symposium 248 ("A Giant Step: from Milli- to Micro-arcsecond Astrometry"), to be held 15-19 October 2007 in Shanghai.

Reports on catalogues and journals followed, including the USNO CD-ROM 2006.5 (Hartkopf), the Ninth Spectroscopic Orbit Catalog (Pourbaix), the Multiple Stars Catalog (Tokovinin), the Catalogue of Orbits and Ephemerides of Visual Double Stars (Docobo), and the Catalogue of Eclipsing Binaries (Malkov).

R. Argyle followed with a discussion of amateur projects in double-star measurement, including the efforts of the French Astronomical Society, the Webb Society, the new electronic Journal of Double Star Observations, the Spanish/South American LIADA group, and Garraf Observatory in Spain. Amateurs are responsible for over 1/3 of the measures added to the WDS during the past 6 years, and many of these measures are of quite high quality. Argyle highlighted some of the major amateur observers, their equipment, and examples of their observations. He ended his talk with a plea encouraging observers to work in the long-neglected southern hemisphere.

Reports were given on various observing facilities and programs, including the speckle programs of Calar Alto (Docobo), the USNO (Mason), PISCO (Argyle), and RYTSI/WIYN (van Altena). T. ten Brummelaar gave an update on the CHARA Array, which is now operating with six 1-meter telescopes over a 350-m baseline.

The business portion of the meeting then concluded with an outline of plans for the next triennium, by incoming president C. Allen.

Following a break, the science portion of the Commission meeting was comprised of six interesting talks: Theo ten Brummelaar: The use of an outlying star as a calibrator for close pairs in interferometry; Rafael Costero: A new SB in the Trapezium; Jose Docobo: The coplanarity of visual orbits in the triple system of red dwarfs Gliese 22; Elizabeth Griffin: The Binary Star Gamma Persei: Bright, but ill-understood... ;Patricia Lampens: The Hyades binary theta 2 Tau; Brian Mason: Double Stars and the Terrestrial Planet Finder Mission.

The meeting then adjourned to the steps of the Congress Centre for a group photo.

NOTES

Others papers on double stars published in 2005

- DOMMANGET, J.: - *Les éléments orbitaux des étoiles doubles visuelles. Leurs définitions, notions peu ou très mal connues.* L'Astronomie **119**, 248-250 (2005)

The deadline for contributions to Information Circular No. 161 is:

February 15th 2007

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