

INTERNATIONAL ASTRONOMICAL UNION COMMISSION 26

(DOUBLE STARS)

INFORMATION CIRCULAR No. 179 (FEBRUARY 2013)

NEW ORBITS

ADS $\alpha$ 2000 $\delta$	Name n	P a	T i	e $\omega$	$\Omega$ (2000) Last ob.	2013 2014	Author(s)
- 00321-1218	HDS 71 6°1386	58 <sup>y</sup> 65 0''355	1993.26 124°6	0.754 276°3	27°7 2008.6938	309°8 0''332 307.2 0.335	CVETKOVIC
- 00495+4404	HDS 109 7.78810	46.22 0.230	2009.89 140.1	0.703 217.9	125.2 2008.6911	153.8 0.135 143.9 0.168	CVETKOVIC
- 00495+4404	HDS 109 7.7194	46.64 0.253	2009.69 133.5	0.752 227.5	131.1 2012.7595	140.9 0.168 134.4 0.203	RICA
929 01078+0425	BU 1292 AB 1.2619	285.3 0.309	2020.7 139.2	0.214 194.8	52.9 2012.7071	233.3 0.244 231.8 0.244	RICA
- 02280+0158	KUI 8 AB 0.5516	653. 0.769	1922.3 79.9	0.545 291.4	28.6 2008.8877	39.0 0.493 39.2 0.491	ZIRM
- 03496+6318	CAR 1 34.9176	10.31 0.103	1997.93 38.4	0.452 111.9	179.1 2012.1018	104.8 0.119 122.0 0.125	ZIRM & HORSCH
3211 04263+3443	HU 609 4.3700	82.38 0.231	1978.04 122.0	0.491 276.0	11.0 2008.8497	290.1 0.181 286.8 0.181	DOCOBO & LING
- 04287+2613	HDS 576 6.6796	53.90 0.389	1995.12 81.4	0.859 277.1	110.6 2008.7022	185.0 0.104 192.3 0.104	CVETKOVIC
- 04389-1207	HDS 599 8.8020	40.90 0.284	2003.81 75.5	0.759 284.1	152.0 2007.8234	205.5 0.119 214.0 0.115	CVETKOVIC
3536 04573+5345	D 5 AB 0.1317	2733. 2.82	2058. 106.5	0.436 299.6	150.2 2012.8985	201.4 0.574 200.6 0.579	RICA
3991 05239-0052	WNC 2 A,BC 0.3901	923. 2.89	2586. 102.5	0.72 139.1	143.4 2008.08	158.6 3.078 158.5 3.086	RICA

**NEW ORBITS (continuation)**

ADS $\alpha$ 2000 $\delta$	Name n	P a	T i	e $\omega$	$\Omega$ (2000) Last ob.	2013 2014	Author(s)
- 05287-6527	CLO 10Aa,Ab 27.9187	12.895 0.304	1991.822 63.0	0.281 157.3	159.2 2006.0660	163.0 0.365 172.7 0.309	MASON & HARTKOPF
4376 05491+6248	STF3115 0.2394	1503.7 2.858	1748.3 104.4	0.512 320.8	41.2 2008.10	334.4 0.789 333.7 0.787	HARTKOPF & HARSHAW
- 06145+1754	KUI 24 1.3848	260. 0.507	1975.8 87.3	0.0 0.0	140.1 2009.2622	143.5 0.316 143.6 0.307	ZIRM
4950 06221+5922	STF 881 AB 0.7163	503. 0.683	1650.0 43.7	0.518 233.8	61.2 2007.1950	146.8 0.639 147.3 0.636	ZIRM
6381 07479-1212	STF1146 0.2704	1331.6 5.790	1832.4 97.8	0.401 345.1	17.8 2012.10	341.5 1.129 340.6 1.110	HARTKOPF & HARSHAW
- 08364+6718	YR 13 15.6229	23.043 0.484	1971.428 131.5	0.704 243.0	235.8 2010.0107	136.4 0.396 124.1 0.355	MASON & HARTKOPF
- 08585+3548	COU 1897 7.6940	46.79 0.150	2016.77 59.4	0.685 248.9	134.9 2010.005	290.2 0.086 299.4 0.080	DOCOBO & TAMAZIAN
7223 09100-2845	B 179 4.2960	83.79 0.470	2019.30 116.4	0.816 115.6	146.6 2011.037	154.1 0.336 151.8 0.304	DOCOBO & CAMPO
7477 09414+3857	STF 1374 AB 0.2614	1377. 3.190	2376.8 38.9	0.342 44.8	34.3 2010.264	310.0 2.822 310.3 2.819	LING
8007 11000-0328	STF1500 0.1698	2120.7 3.371	1873.1 98.9	0.544 334.7	311.0 2010.39	300.2 1.345 300.0 1.339	HARTKOPF & HARSHAW
8611 12372+2112	STF1663 0.3653	986. 0.701	1671.0 141.5	0.070 280.9	113.7 2010.2620	68.6 0.637 68.2 0.636	ZIRM
- 12409+2708	COU 596 9.4414	38.13 0.118	1988.88 140.5	0.976 60.1	78.0 2008.240	201.6 0.184 200.9 0.179	DOCOBO & LING
- 12533+4246	COU 1579 3.9643	90.81 0.409	2023.25 72.2	0.646 66.3	158.0 2008.4611	136.0 0.226 138.9 0.229	DOCOBO & LING
8759 13039-0340	BU 929 0.8218	438. 0.781	2173.4 101.1	0.0 0.0	25.9 2007.3600	193.8 0.533 193.5 0.525	ZIRM

**NEW ORBITS (continuation)**

<b>ADS</b> $\alpha$ 2000 $\delta$	<b>Name</b> <b>n</b>	<b>P</b> <b>a</b>	<b>T</b> <b>i</b>	<b>e</b> $\omega$	$\Omega$ (2000) <b>Last ob.</b>	<b>2013</b> <b>2014</b>	<b>Author(s)</b>
8887 13235+2914	HO 260 1.4646	246. 2.120	1884.6 77.1	0.8 110.0	116.1 2010.3950	86.5 1.609 86.9 1.622	ZIRM
8917 13291+1128	BU 113 0.3408	1056.4 2.639	2043.9 51.5	0.352 9.1	276.8 2009.26	268.0 1.716 268.4 1.717	HARTKOPF & HARSHAW
9329 14380+5135	STF1863 0.6693	538. 1.080	1774.3 108.2	0.910 269.0	140.2 2010.5400	60.5 0.648 60.3 0.648	ZIRM
9340 14407+3117	STF1867 0.3368	1069. 1.209	2086.9 136.0	0.914 240.1	85.2 2010.5410	354.3 0.672 354.0 0.666	ZIRM
9626 15245+3723	STF 1938 Ba,Bb 1.4035	256.5 1.450	1864.25 134.2	0.579 338.7	176.2 2012.457	4.5 2.223 4.1 2.220	SCARDIA et al. (*)
- 16206+4535	HDS 2309 13.2098	27.25 0.199	1998.94 66.6	0.436 83.8	110.8 2010.4677	11.3 0.113 25.9 0.115	CVETKOVIC
- 17155+1052	HDS 2440 13.4123	26.84 0.157	1998.92 122.8	0.247 94.0	94.8 2010.4784	167.5 0.109 153.8 0.116	CVETKOVIC
11432 18320+0647	STT 354 0.8452	426. 0.801	1783.9 63.6	0.504 252.0	149.7 2009.6590	212.7 0.584 213.3 0.581	ZIRM
12101 19091+3436	CHR 84Aa,Ab 101.3793	3.5510 0.074	1997.3454 147.3	0.597 263.9	96.9 2012.3460	26.5 0.099 346.8 0.090	MASON et al. (**)
12160 19126+1651	BU 139 AB 0.6131	587. 0.552	2128.7 95.4	0.533 133.8	136.4 2009.7440	136.1 0.607 136.1 0.604	ZIRM
13277 20020+2456	STT 395 0.2997	1201. 2.687	1863.7 79.0	0.932 276.5	84.5 2009.8910	126.1 0.851 126.3 0.851	ZIRM
13554 20136+4644	WRH 33Aa,Ab 35.8578	10.040 0.043	1963.012 104.7	0.118 129.8	144.9 1985.8425	348.5 0.021 328.7 0.038	MASON & HARTKOPF
14421 20548+3242	STT 418 0.4577	787. 1.832	1826.9 93.3	0.712 93.9	111.7 2010.5490	283.9 0.964 283.8 0.959	ZIRM
- 20599+4016	COU 2431Aa1,2 1168.323	0.3081 0.01391	2013.0444 59.8	0.6565 17.3	69.8 2012.574	299.2 0.00841 221.8 0.00868	DOCOBO & CAMPO I

**NEW ORBITS (continuation)**

<b>ADS</b> $\alpha$ <b>2000</b> $\delta$	<b>Name</b> <b>n</b>	<b>P</b> <b>a</b>	<b>T</b> <b>i</b>	<b>e</b> $\omega$	$\Omega$ (2000) <b>Last ob.</b>	<b>2013</b> <b>2014</b>	<b>Author(s)</b>
- 20599+4016	COU 2431Aa1,2 1168.323	0.3081 0.01391	2013.0444 120.2	0.6565 17.3	84.7 2012.574	215.3 0.00841 292.7 0.00868	DOCOBO & CAMPO II
15600 22038+6438	MCA 69Aa,Ab 160.3449	2.2452 0.074	1970.9891 70.9	0.483 272.6	89.8 2012.8714	245.5 0.061 98.8 0.064	MASON et al. (**)
- 22161-0705	HDS 3158 4.4679	80.57 0.389	1991.76 36.0	0.450 273.9	71.8 2009.7553	118.9 0.415 121.7 0.419	CVETKOVIC
16530 23078+6338	HU 994 1.514	237.7 0.281	1967.4 82.1	0.289 128.4	129.6 2008.765	319.2 0.176 319.7 0.172	DOCOBO & CAMPO
- 23167+3441	HDS 3315 10.7856	33.38 0.131	1996.12 113.5	0.815 355.4	23.0 2008.6992	204.6 0.237 203.9 0.237	CVETKOVIC

(\*) SCARDIA, PRIEUR, PANSECCHI & ARGYLE

(\*\*) MASON, FARRINGTON & BRUMMELAAR

**NEW DOUBLE STAR**

André Amossé, President of the Association Jonckheere, Lille Observatory, reports the following new double star BD + 311051 = Tyc 2404-617-1 of 9.3 mg.

The instrument used was the Refractor of the Lille Observatory (diameter: 33 cm; focal 6 m) with the Atik 16IC CCD camera (659x494 pixels) - pixel size: 7.4mm (square).

The proposal name for the new double star is "AMS 1".

<b>STAR</b>	<b>mg.</b>	<b>Coord. 2000</b>	<b>Epoch</b>	$\theta$	$\rho$	$\Delta m$
AMS 1	9.3	054052 + 312304	2011.856	288°4	4"1	3.9
			2011.879	284.9	3.9	3.7
			2012.205	284.6	3.8	3.5

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## OBITUARIES

### **J. Murray FLETCHER (1940-2012)**

On April 17th, 2012, J.Murray Fletcher passed away suddenly at the Royal Jubilee Hospital following heart surgery. He was employed at the Dominion Astrophysical Observatory and worked in astronomical research and optical desing and testing. He retired in 2010 after 45 years of service.

Brian D. Mason

### **Christopher Leon MORBEY (1942-2012)**

Christofer L. Morbey passed away last year. He had worked for NCR and the Dominion Astrophysical Observatory on Little Saanich Mountain for more than 42 years studying stars and designing optical equipment for telescopes, including the Far Ultraviolet Spectrographic launched in 1999 from Cape Canaveral. He retired in 2005.

Brian D. Mason

### **Errata in Information Circular No. 178**

- In the entry for WDS 23568+0444 (A 2100), the value of the  $\omega$  should be 60.6, rather than 66.6 (B. D. Mason).
- In the Announcements section, the parallax for TYCHO 40.501.1 should be  $0''.0114$  instead of  $0''.114$  (M. Sardia).

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The deadline for contributions to Information Circular No. 180 is:

June 15th 2013

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