INTERNATIONAL ASTRONOMICAL UNION

COMMISSION G1 (BINARY AND MULTIPLE STAR SYSTEMS)

DOUBLE STARS INFORMATION CIRCULAR No. 187 (OCTOBER 2015)

NEW ORBITS

ADS α2000δ	Name n	P a	T i	e ω	Ω(2000) Last ob.	2015 2016	Author(s)
9	BU 281AB	1117^y	2077.5	0.639	149°9	160°2 1″560	LING
00028+0208	0°3223	3″140	108°5	55°7	2014.8561	159.9 1.558	
-	HDS 101	24.809	2010.380	0.700	33.8	4.2 0.110	CVETKOVIC
00463-0634	14.5108	0.102	43.8	177.3	2010.7172	9.9 0.125	
1458	A 2602	1606.	1976.2	0.868	4.5	181.1 0.795	DOCOBO
01500-0408	0.2242	2.455	82.4	45.3	2015.7382	181.2 0.814	et al. (*)
-	DON 43	108.42	1972.75	0.362	29.6	274.1 0.208	DOCOBO
02514-2139	3.3204	0.242	52.1	94.1	2015.7383	276.7 0.207	et al. (*)
-	HDS 430	54.70	2021.61	0.091	54.4	314.0 0.194	CVETKOVIC
03264+3520	6.5820	0.273	41.2	313.4	2010.8923	323.9 0.191	
-	HDS 441	18.964	2007.281	0.500	17.8	164.7 0.122	CVETKOVIC
03307-1926	18.9830	0.218	102.7	84.4	2014.7635	149.7 0.095	
-	HDS 510	35.44	2010.30	0.366	102.0	338.6 0.067	CVETKOVIC
04025+0638	10.1577	0.159	64.9	166.1	2008.6996	3.3 0.063	
7131	HU 225AB	125.94	1944.21	0.331	68.4	263.8 0.433	DOCOBO
09001-1228	2.8585	0.341	46.0	9.5	2011.0371	264.9 0.430	& LING
-	HDS 1353	93.92	1995.98	0.835	140.7	163.8 0.403	CVETKOVIC
09252+4606	3.8332	0.582	76.9	263.4	2010.0054	164.8 0.402	
-	CHR 176	21.724	2000.621	0.351	25.5	174.2 0.068	CVETKOVIC
09446+6459	16.5716	0.115	74.5	262.3	2005.2458	184.0 0.083	
-	HDS 1507	23.361	2011.062	0.156	64.5	228.6 0.109	CVETKOVIC
10294+1211	15.4105	0.122	51.6	77.8	2007.3298	239.3 0.120	

NEW ORBITS (continuation)

ADS α2000δ	Name n	P a	T i	e ω	Ω(2000) Last ob.	2015 2016	Author(s)
- 10596+1800	HDS 1568 22.1622	16.244 0.203	2003.412 115.8	0.150 256.6	95.3 2010.3416	297.0 0.170 285.1 0.191	CVETKOVIC
8092 11136+5525	A 1353 2.8291	127.25 0.390	1962.00 117.6	0.644 39.2	44.4 2013.287	209.1 0.561 208.6 0.559	DOCOBO & LING
8727 12597-0349	CHR 39Aa,Ab 45.5350	7.906 0.078	2011.562 19.3	0.363 174.9	21.6 2014.3003	5.5 0.105 27.3 0.105	DOCOBO & CAMPO
- 13155+4051	CHR 180 1.6423	219.2 0.745	2201.7 44.5	0.686 273.3	22.2 2010.4701	61.0 0.654 62.2 0.661	CVETKOVIC
- 14562+1745	HDS 2108 9.5910	37.53 0.193	2016.35 126.9	0.489 174.1	34.4 2008.4743	247.0 0.087 224.9 0.096	CVETKOVIC
- 15226+7254	HDS 2163 2.7500	130.91 0.261	1993.53 66.0	0.483 39.2	3.7 2010.4675	173.0 0.234 174.2 0.243	CVETKOVIC
10828 17506+0714	STT 337 0.3600	1000. 1.389	1787.0 100.1	0.613 141.7	134.1 2013.678	164.7 0.573 164.4 0.579	DOCOBO & LING
 18434-5546	B 398 4.8407	74.37 0.329	2007.91 107.5	0.344 252.4	163.1 2015.7375	177.8 0.199 174.5 0.224	DOCOBO et al. (*)
- 20002-5522	B 459BC 4.9464	72.78 0.292	2044.56 44.9	0.229 278.7	64.6 2015.7377	194.7 0.279 198.3 0.283	DOCOBO et al. (*)
- 20081-3929	RST 2134 2.3717	151.79 0.259	1977.23 133.1	0.258 18.9	22.2 2015.7377	234.8 0.238 233.0 0.244	DOCOBO et al. (*)
- 22007-5002	I 1450 1.7844	201.8 0.599	1961.8 58.4	0.780 162.8	10.2 2015.7378	349.3 0.775 349.7 0.785	DOCOBO et al. (*)
- 22504-1744	DON 1038 2.4468	147.13 0.488	1972.27 64.2	0.556 97.6	9.9 2015.7379	238.7 0.356 240.4 0.354	DOCOBO et al. (*)
16850 23357-2729	SEE 492 4.6302	77.75 0.601	1969.11 50.0	0.491 110.6	72.1 2014.7632	28.0 0.673 30.0 0.678	DOCOBO & CAMPO

(*) DOCOBO, GOMEZ & CAMPO

NEW LINEAR FITS

ADS α**2000**δ	**Name** **-**	X_0 Y_0	X_A Y_A	ρ_0 θ_0	T_0 **Last ob.**	**2015** **2016**		**Authors**
-	STI2051AB	5″579910	0″042772	6″047	1939.9580	58°6	10″293	CVETKOVIC
04312+5858	-	2″330326	−0″102417	112°670	2013.7723	58.3	10.383	
3527	HJ3263	-3.459261	0.039617	4.066	1834.7860	375.0	14.184	CVETKOVIC
04556+1653	-	-2.136124	-0.064157	301.700	2013.7749	375.1	14.256	
-	BRT2521	-1.248724	-0.076498	2.380	1940.8240	282.0	7.077	CVETKOVIC
05492+2941	-	2.026629	-0.047135	211.640	2013.7725	282.2	7.162	
5423	AGC1AD	−16.490870	−0.182838	20.757	1994.900	248.1	21.539	MASON &
06451-1643	-	12.605517	−0.239193	232.61	1915.804	248.4	21.573	HARTKOPF
5423	HL3AE	64.195206	0.550715	70.755	1877.958	46.5	191.705	MASON &
06451-1643	-	29.752087	-1.188261	114.87	2011.214	46.4	192.246	HARTKOPF
5423	BU1411AF	67.216583	0.549349	74.047	1933.492	59.9	128.834	MASON &
06451-1643	-	31.062237	-1.188754	114.80	2011.214	59.8	129.264	HARTKOPF
6251	D29AE	201.662064	0.692103	247.544	1676.174	67.0	473.087	MASON &
07393+0514	-	143.563950	-0.972186	125.45	2009.135	67.0	473.494	HARTKOPF
6251	SLE439AF	-123.079185	0.791689	156.630	1956.928	333.2	172.829	MASON &
07393+0514	-	-96.874138	-1.005846	308.21	2012.237	333.4	173.049	HARTKOPF
6251	SMR11AG	-284.463531	0.741101	352.248	1977.242	313.6	355.263	MASON &
07393+0514	-	-207.747711	-1.014771	306.14	2012.237	313.7	355.330	HARTKOPF
7472	J78	0.562050	0.067989	3.088	1948.2240	113.3	5.555	CVETKOVIC
09388+0242	-	3.036883	-0.012583	169.510	2014.2542	112.9	5.612	
-	HJ2804AB	-2.604337	0.083382	5.534	2049.7729	238.8	6.436	CVETKOVIC
17046+3900	-	4.882575	0.044476	208.080	2014.6040	238.0	6.388	
11711	STF2400AB	-0.954074	0.029920	1.046	1869.0909	161.4	10.694	CVETKOVIC
18489+1615	-	0.429117	0.066523	245.780	2014.6100	161.4	10.767	
11711	STF400A,BC	-1.225272	0.031637	1.366	1867.037	161.1	10.688	CVETKOVIC
18489+1615	-	0.603106	0.064275	243.79	2012.606	161.1	10.759	
11711	STF2400AC	-0.867775	0.016718	0.889	1862.1140	171.7	11.728	CVETKOVIC
18489+1615	-	0.194374	0.074637	257.370	2000.0000	171.7	11.804	

NEW LINEAR FITS (continuation)

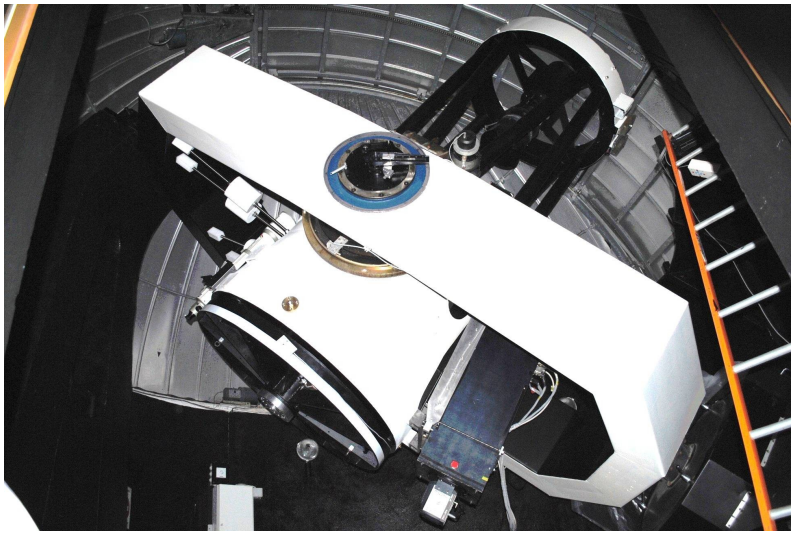
ADS α**2000**δ	**Name** **-**	X_0 Y_0	X_A Y_A	ρ_0 θ_0	T_0 **Last ob.**	**2015** **2016**		**Authors**
-	HDS 2740	0.129807	0.009663	0.141	2016.6639	50.7	0.147	CVETKOVIC
19218+7708	-	-0.055851	0.022458	66.720	2008.4750	60.2	0.142	
12991	J 1336 AB	-0.370453	0.047707	2.070	1904.8290	58.5	5.729	CVETKOVIC
19500+0637	-	-2.036395	-0.008679	349.690	2013.5284	58.7	5.774	
13421	J 1338	-0.230028	0.074518	1.557	1884.9110	72.5	9.924	CVETKOVIC
20087+1223	-	-1.540130	-0.011130	351.510	2013.5366	72.5	9.999	

ANNOUNCEMENTS

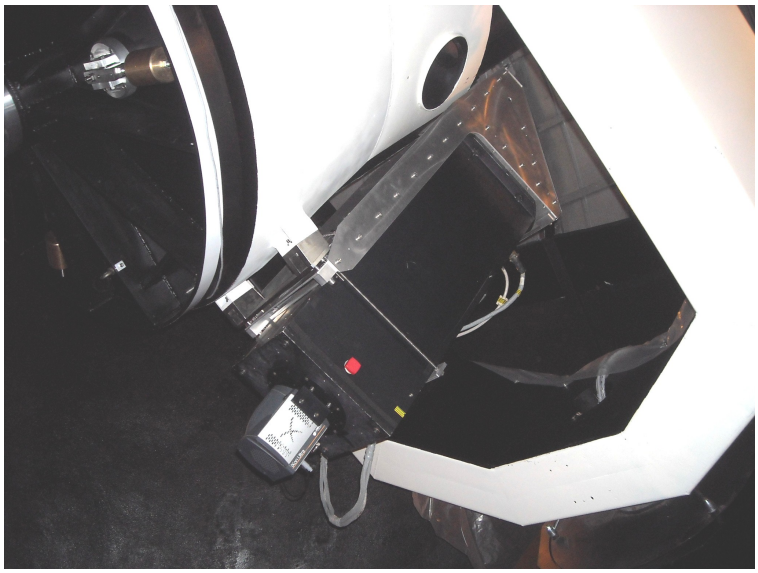
THE SPECKLE CAMERA PISCO IS NOW MOUNTED ON THE 104 CM "EPSILON" TELESCOPE OF THE OBSERVATOIRE DE LA CÔTE D'AZUR, ON THE PLATEAU DE CALERN, FRANCE.

The speckle camera PISCO, originally built at the Observatoire Midi-Pyrnes for the Bernard Lyot telescope of 2m aperture on the Pic du Midi, France, on November 2003 was transported in Italy and mounted at the Cassegrain focus of the 102cm Zeiss telescope of the INAF - Osservatorio Astronomico di Brera in Merate, where it became operational on 01 January 2004. From that date and until 04 June 2015 more than 3750 measures of visual binary stars were performed. On 16 June 2015, PISCO was dismounted from the Zeiss telescope and placed in the original boxes previously used for its transportation in Italy. Ten days later, it was returned in France, at the Observatoire de la Côte d'Azur (OCA), on the Plateau de Calern ($\sim$ 1270-m a.s.l.), near the town of Grasse, and transferred to the Group C2PU (Centre Pédagogique Planète Univers), which manages the telescopes "Omicron" and "Epsilon", both of 104cm aperture, of that observatory. Between August 3 and 7, after a careful overhaul, and cleaning of the optics, PISCO was firmly mounted on the Epsilon telescope. Then, the old ICCD Philips camera of 1992, used in Merate, technologically obsolete, although still operational, was replaced with a modern, high-performance EMCCD ANDOR Ixon Ultra 897 camera, belonging to the C2PU Group. At present, some necessary tests are in progress, and the software for operating the camera ANDOR, the internal mechanisms of PISCO, and for pointing the telescope is nearly completed. We foresee that the Epsilon+PISCO unit will become operational before the end of the current year.

The PISCO Group (M. Scardia, J.-L. Prieur, L. Pansecchi, R.W. Argyle and E. Aristidi)
The C2PU Group (in alphabetical order: L. Abe, P. Bendjoya, C. Dimur, J.-P. Rivet, D. Vernet and O. Suarez)



The OCA Epsilon telescope at Calern with PISCO (black box with red button) fastened alongside



Detail of the mechanical connection of PISCO to the Epsilon telescope

NEW BOOK

Jean-Claude Thorel announces the edition of the book:
Title: *Robert JONCKHEERE l'astronome des étoiles doubles GÊNÉALOGIE et compléments à la biographie "Le Ciel d'une Vie - Robert Jonckheere".*
Editorial: Nice Imprim 794 071 316 R.C.S. Nice
Date: December 2014

Errata in Information Circular No. 186

- The entry 00152-1607 GJ 1005 should be 00155-1608 HEI 299 AB
- The entry 01022+0503 BD+04 should be 01024+0504 HDS 135
- The entry 01102-6726 GJ 54 should be 01104-6727 GKI 3
- The entry 01350-2954 GJ 60 should be 01350-2955 DAW 31 AB
- In the NOTE, the sentence"The precise position is a designation..." it should be "The precise position is a datum..."

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The deadline for contributions to Information Circular No. 188 is:

February 15th 2016

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