

Observatorio Astronómico Ramón María

Aller

INTERNATIONAL ASTRONOMICAL UNION COMMISSION 26 (DOUBLE STARS) INFORMATION CIRCULAR No. 146 (FEBRUARY 2002)

NEW ORBITS

ADS RA 2000 DEC	Name n (deg)	P (yr) a (")	T i (deg)	e w (deg)	W(2000) Last ob.	2002 2003	Author
492 00357+3429	HU 1011 0.7599	473.78 0.387	2278.94 134.6	0.479 260.9	155.7 1997.689	95.3 0.42 94.9 0.42	OLEVIC & JOVANOVIC
2616 03344+2428	STF 412AB 0.6894	522.16 0.625	1911.62 157.2	0.679 238.1	13.0 2000.107	356.2 0.70 355.8 0.70	SCARDIA et al. (*)
V 773 Tau 04142+2813	125.00 2.8800	1998.62 0.249	0.643 63.8	101.1 299.4	1997.689 2001.841	97.4 0.104 102.5 0.114	DOCOBO et al. (**)
FO Tau 04148+2813	194.00 1.8557	2023.12 0.219	0.449 38.7	83.8 206.9	208.7 0.144 211.7 0.143	DOCOBO et al. (**)	
FS Tau 04220+2658	271.00 1.3284	2035.73 0.272	0.168 19.7	18.0 138.0	94.7 0.231 96.4 0.230	DOCOBO et al. (**)	
DF Tau 04271+2542	92.80 3.8793	1982.10 0.134	0.513 135.4	3.7 318.4	271.3 0.109 267.7 0.112	DOCOBO & TAMAZIAN	
FW Tau 04295+2617	242.00 1.4876	2005.30 0.180	0.752 23.0	161.0 114.2	226.0 0.048 239.6 0.045	DOCOBO & TAMAZIAN	
4647 06041+1101	J 335 1.4917	241.34 0.811	2095.90 116.3	0.765 318.9	81.5 1991.87	277.6 1.209 277.4 1.210	OLEVIC & JOVANOVIC
MCA 25 06073+2641	21.12 17.0438	1991.58 0.100	0.871 60.5	124.7 257.3	189.5 0.100 1995.9187	189.5 0.100 193.8 0.097	MANTE I
MCA 25 06073+2641	43.45 8.2846	2001.51 0.109	0.000 62.0	3.5 0.3	5.6 0.108 1995.9187	5.6 0.108 9.5 0.106	MANTE II
6584 08062+0201	J 420 1.6579	217.14 2.197	1955.41 105.1	0.843 134.8	173.8 1991.51	203.1 1.482 202.6 1.517	OLEVIC I

6584	J 420	168.45	1954.17	0.778	176.0	199.8	1.55	OLEVIC II
08062+0201	2.1372	1.921	104.0	136.4	1991.51	199.3	1.58	
CHR 130	13.23	1985.53	0.252	162.8	164.3	0.091	OLEVIC	
08403+1921	27.2218	0.100	82.5	281.9	1997.13	168.6	0.083	
MCA 35	8.00	1998.35	0.677	30.6	265.8	0.059	MANTE	
11159+1318	44.9944	0.042	36.7	65.0	1993.1969	279.4	0.056	
8387	A 1088	135.97	2011.68	0.896	22.8	343.0	0.118	OLEVIC &
12006+6911	2.6477	0.447	77.7	72.4	1993.20	346.5	0.119	JOVANOVIC
COU 596	33.30	1988.99	0.956	54.0	207.0	0.183	DOCOBO	
12409+2708	10.8108	0.108	132.1	40.3	1997.126	206.3	0.185	& LING
8943	A 1095	187.53	2049.28	0.471	109.1	272.0	0.391	OLEVIC &
13336+2944	1.9197	0.331	37.8	298.2	1999.41	273.0	0.388	JOVANOVIC
9047	BU 614 AB	196.72	2013.84	0.568	114.1	113.5	0.348	ZIRM
13539+1008	1.8300	0.586	107.7	77.8	1995.42	112.1	0.334	
10140	BU 953 AB	206.30	1898.50	0.425	142.6	80.0	0.24	SCARDIA
16366+6948	1.7450	0.407	111.9	258.8	1998.679	78.2	0.24	et al. (*)
STA 1	6.88	1986.03	0.159	22.1	19.5	0.091	OLEVIC &	
17088+6543	52.3325	0.096	66.8	272.2	1994.71	42.3	0.082	JOVANOVIC
MLR 571	85.96	2004.31	0.417	1.0	248.9	0.077	ZIRM	
17335+5734	4.1880	0.133	162.7	136.6	1997.1267	237.9	0.076	
COU 1785	36.70	1997.07	0.362	54.2	278.3	0.028	DOCOBO	
18035+4032	9.8093	0.135	80.3	171.5	1995.611	333.5	0.021	& LING
COU 321	354.12	1995.28	0.776	142.2	283.4	0.044	DOCOBO	
19180+2012	1.0166	0.484	101.0	188.4	1998.679	265.2	0.036	& LING
DJU 4	862.97	2746.74	0.384	65.5	246.0	1.215	POPOVIC &	
19535+2405	0.4172	1.183	80.7	96.3	1993.0	246.0	1.226	OLEVIC
13734	J 838	239.84	1967.51	0.784	103.0	114.2	6.029	OLEVIC
20210+1028	1.5010	7.451	77.6	258.1	1995.	114.5	6.67	
14748	HO 152	227.60	2022.68	0.326	137.1	122.5	0.25	SCARDIA
21125+2821	1.5817	0.388	68.3	26.7	1998.679	123.8	0.26	et al. (*)
15236	HU 280	166.85	1814.98	0.075	132.4	345.5	0.18	SCARDIA
21423+0555	2.1576	0.231	53.6	177.9	1998.663	347.8	0.17	et al. (*)
I 20 AB	982.79	1965.84	0.526	4.2	194.5	0.592	LING	
22180-6249	0.3663	1.157	123.0	115.2	1996.820	193.8	0.598	
16116	HU 391 AB	200.34	2004.23	0.651	208.2	310.5	0.142	ZIRM
22375+2356	1.7969	0.751	59.1	120.7	1994.90	329.1	0.152	
16666	STF3001AB	1540.00	1678.51	0.409	66.3	220.2	3.268	DOCOBO &
23186+6807	0.2337	3.084	9.1	31.7	2000.513	220.4	3.273	ANDRADE

(*) SCARDIA, PRIEUR, KOECHLIN and ARISTIDI
(**) DOCOBO, TAMAZIAN and WOITAS

ANNOUNCEMENTS

For a variety of reasons, there exist a large subset of measures contained in the WDS database which have not been published. To make these data available to the astronomical community we have made them accessible from the main WDS web page:

<http://ad.usno.navy.mil/wds/wdtext.html#unpublished> .

It is anticipated that this section will expand substantially as the data contained in the WDS are collated.

Nils Wieth-Knudsen measures:

In late 2001, Inger Wieth-Knudsen made available to the U.S. Naval Observatory the original measurement cards Dr. Nils Wieth-Knudsen made towards the end of his distinguished career. The original cards are cataloged in the James Melville Gillis Library of the U.S. Naval Observatory. The 471 measures recorded on these cards are grouped into 211 means of 59 systems, and include 33 measures of differential magnitude. Made with both 10 and 30 inch telescopes, the observation dates range from 1961.32 to 1989.34 and the measured separations range from 0.46 to 28.97 arcseconds. These measures are accessible at:

<http://ad.usno.navy.mil/wds/unpublished/wieth-knudsen.html> .

Walt Sanders measures:

Over the past years Walt Sanders has (and is) continuing his observing of primarily wide M dwarf stars with a filar micrometer on the Lick 36-inch refractor. This continues the work described in The Astronomical Journal (vol. 71, p. 1008; December 1966). As of January 1, 2002 it consisted of 219 measures averaged into 99 means of 69 pairs, with observation dates from 1996.32 to 1998.70 (thusfar, observations continue) and the measured separations range from 3.2 to 122.9. In three cases no separation is measured, but the position angle is. These measures are accessible at:

<http://ad.usno.navy.mil/wds/unpublished/sanders.html> .

Also, in what (by some) could be more properly characterized as a labor of love, a web page has been constructed giving an overview of the history of double star research at the U.S. Naval Observatory. The history surveys the three major programs (micrometry, photography, and speckle interferometry) and also provides numerous pictures, statistics, a discussion of some binary discoveries, supplementary documents (obituaries, professional summaries, etc.), and notes to some of the more colorful characters that have been at the USNO over the years. This web page is:

http://ad.usno.navy.mil/wds/ds_history.html .

"The Tycho Double Star Catalogue"

by

Fabricius, C., Høg, E., Makarov, V.V.,
Mason, B.D., Wycoff, G.L., & Urban, S.E.

I would like to draw your attention to the Tycho Double Star Catalogue, TDSC, which has just been accepted for publication by A&A, and the corresponding files will become available from CDS.

Abstract:

We report the discovery of 13251 visual double stars, mostly with separations between 0.3 and 1 arcsec, from a dedicated re-reduction of the Tycho data from the star mapper of the ESA Hipparcos satellite. The new doubles are combined with 18160 WDS systems identified in the Tycho-2 Catalogue, and 1220 new Tycho-2 doubles, to form the Tycho Double Star Catalogue, TDSC, a catalogue of absolute astrometry and BT, VT photometry for 66219 components of 32631 double and multiple star systems. We also include results for 32263 single components for systems unresolved in TDSC, and a supplement gives Hipparcos and Tycho-1 data for 4777 additional components. The TDS thus contains a total of 103259 entries. Cross identifications are given to WDS, HD, Hipparcos and Tycho-2.

Claus Fabricius

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The deadline for contributions to Information Circular No. 147 is:

June 15th 2002

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