

COMMISSIONS 27 AND 42 OF THE IAU  
INFORMATION BULLETIN ON VARIABLE STARS

Number 5999

Konkoly Observatory  
Budapest  
7 September 2011

HU ISSN 0374 – 0676

OBSERVATIONS OF VARIABLES

<b>Date:</b> 19 October 2009
<b>Reported by:</b> Sipahi, E. - Ege University Observatory, Bornova, Izmir - Turkey, esin.sipahi@mail.ege.edu.tr
<b>Name of the object:</b> KR Cyg
<b>Remarks:</b> Complete stromgren light curves of the eclipsing binary KR Cyg are presented. Light elements were published in Sipahi, 2005. The magnitude and colour differences inside-eclipse minus outside-eclipse are $\Delta b = 0^m911$ $\Delta(b - y) = 0^m044$ $\Delta m_1 = 0^m05$ $\Delta c_1 = -0^m232$ The system is not bright. Thus, scatter in the u light is much more than expected.

<b>Date:</b> 28 April 2010
<b>Reported by:</b> Liakos, A. - Department of Astrophysics, Astronomy and Mechanics, National and Kapodistrian University, Athens, Greece, alliakos@phys.uoa.gr Niarchos, P. - Department of Astrophysics, Astronomy and Mechanics, National and Kapodistrian University, Athens, Greece, pniarcho@phys.uoa.gr
<b>Name of the object:</b> GSC 0199-2035
<b>Remarks:</b> The variability was discovered by ASAS (ASAS J080731+0159.7). In the field of YY CMi and BI CMi. Ephemeris: Min. I = HJD 2455232.2837(6) + 1.01263(3)*E

<b>Date:</b> 28 October 2010
<b>Reported by:</b> Liakos, A. - Department of Astrophysics, Astronomy and Mechanics, National and Kapodistrian University, Athens, Greece, alliakos@phys.uoa.gr Niarchos, P. - Department of Astrophysics, Astronomy and Mechanics, National and Kapodistrian University, Athens, Greece, pniarcho@phys.uoa.gr

<b>Name of the object:</b>
GSC 03208-01986
<b>Remarks:</b>
GSC 03208-01986 = NSVS 6099331 is an Eclipsing Binary of W UMa Type, in the FoV of V407 Lac.

<b>Date:</b> 7 December 2010
<b>Reported by:</b>
Rosario, M. J. - Vainu Bappu Observatory, Indian Institute of Astrophysics, Kavalur 635701, India, mjr@iiap.res.in
Muneer, S. - Indian Institute of Astrophysics, Bangalore 560034, India, muneers@iiap.res.in
Raveendran, A. V. - Indian Institute of Astrophysics, Bangalore 560034, India, avr@iiap.res.in
Mekkaden, M. V. - Indian Institute of Astrophysics, Bangalore 560034, India, mvm@iiap.res.in

<b>Name of the object:</b>
UX Ari
<b>Remarks:</b>
UX Ari was observed on a total of 33 nights during December 2008–February 2010 in standard Johnson BV bands with the 34-cm tel scope of Vainu Bappu Observatory, Kavalur. All the measurements were made with respect to 62 Ari. Each value given in the data file is a mean of 3–4 independent measurements and the typical uncertainty in each value is around 0.01 mag.

<b>Name of the object:</b>
V711 Tau
<b>Remarks:</b>
V711 Tau was observed on a total of 11 nights during January–February 2010 in standard Johnson BV bands with the 34-cm telescope of Vainu Bappu Observatory, Kavalur. All the measurements were made with respect to 10 Tau. Each value given in the data file is a mean of 3–4 independent measurements; the typical uncertainty in each value is around 0.01 mag.

<b>Name of the object:</b>
DM UMa
<b>Remarks:</b>
DM UMa was observed on a total of 17 nights during December 2008–March 2009 in standard Johnson BV bands with the 34-cm telescope of Vainu Bappu Observatory, Kavalur. All the measurements were made with respect to BD+60° 1301. Each value given in the data file is a mean of 3–4 independent measurements; the typical uncertainty in each value is around 0.01 mag.

<b>Date:</b> 17 January 2011
<b>Reported by:</b>
Liakos, A. - Department of Astrophysics, Astronomy and Mechanics, National and Kapodistrian University, Athens, Greece, alliakos@phys.uoa.gr
Niarchos, P. - Department of Astrophysics, Astronomy and Mechanics, National and Kapodistrian University, Athens, Greece, pniarcho@phys.uoa.gr

<b>Name of the object:</b>
GSC 03802-01986
<b>Remarks:</b>
GSC 03802-01986 = TYC 3802-1986-1 = RX J0811.9+5730 = NSVS 2432473 is an Algol type binary in the FoV of SX Lyn.

<b>Date:</b> 19 March 2011
<b>Reported by:</b> Osborn, Wayne H. - Central Michigan University, osbor1wh@cmich.edu
<b>Name of the object:</b> WW Aur
<b>Remarks:</b> A time of minimum has been determined from photoelectric observations made with the Morgan 60-cm reflector at Lowell Observatory in 1983 and using a DDO "48" filter (see McClure, 1979): HJD 2445402.7218 +/- 0.0015.

<b>Date:</b> 20 May 2011
<b>Reported by:</b> Hoffman, D.I. - Infrared Processing and Analysis Center (IPAC), California Institute of Technology, Pasadena, CA 91125, USA, dhoffman@ipac.caltech.edu Monninger, G. - Bundesdeutsche Arbeitsgemeinschaft für Veränderliche Sterne e.V. (BAV), Munsterdamm 90, DE-12169 Berlin, Germany, gerold.monninger@online.de

<b>Name of the object:</b> GSC 03851-00240
<b>Remarks:</b> GSC 03851-00240 was identified as a variable object and classified into the variable star class 'Short Period Delta Scuti Candidates' (Hoffman et al., 2009). Our observation confirmed the classification for the first time. GSC 03851-00240 is a high amplitude delta scuti variable (HADS), with a modulation in its light curve. The period is 0.067946 d.

References:

- Hoffman, D.I. et al., 2009, *AJ*, 138, 466  
 McClure, R.D., 1979, *Dudley Obs. Report*, 14, 83  
 Sipahi, E., 2005, *IBVS* No. 5635.