COMMISSIONS G1 AND G4 OF THE IAU INFORMATION BULLETIN ON VARIABLE STARS

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REPORTS ON NEW DISCOVERIES

Date: 04 July 2014	
Observer(s) and affiliation(s):	
Martignoni, Massimiliano - Stazione Astronomica Betelgeuse	, Magnago, Milano,
Italy, massimiliano.martignoni@alice.it	

RA(J2000) 17 17 45.37	Dec(J2000) 11 09 32.5		type DSCT	Mag. 13.15 - 13.35 (V)	
Period 0.217045 d			Epoch 2456745.613		
Cross-identification(s): UCAC4 506-065333 = CSS J171745.4+110932					

Remark: UCAC4 506-065333 is a DSCT type pulsating variable star in the field of view of V452 Oph. It was observed with a 0.25 m Schmidt-Cassegrain telescope (f/10) of the Stazione Astronomica Betelgeuse in Magnago, Italy equipped with a 512×512 pixels Kodak KAF261E CCD cooled to (typ.) -20° C; 1.6 arcsec per pixel (1×1 binning); $14'\times14'$ field of view, with V and R_C photometric filters. As comparison and check stars were used UCAC4 506-065387 and UCAC4 506-065389. A total of 119 measurements in V band and 94 in R_C band were collected; reduction to the standard photometric system was not performed.

Date: 15 August 2014
Observer(s) and affiliation(s):
Essam, Ahmed - Astronomy Department, National Research Institute of Astronomy
and Geophysics (NRIAG), 11421 Helwan, Egypt, address:essam60@yahoo.com

RA(J2000)	$\mathrm{Dec}(\mathrm{J2000})$	$\mathrm{Dec}(\mathrm{J2000})$		Mag.	
15 58 28.08	$-02\ 57\ 53.6$	$-02\ \hat{5}7\ 53.6$		15.03 - 15.74 (V)	
Period		Ep		Epoch	
$0.361456 \; \mathrm{d}$	245		56827.46801 ± 0.000334		
Cross-identifica	cation(s):				
UCAC4 436-0629	6-062932 = 2MASS J15582807-0257536 = CSS J155828.1-02575			J155828.1-025753 =	
USNO-B1.0 0870	-0361232				

Remark: All the observations have been carried out by using the EEV CCD 42-40 camera with a format of 2048×2048 pixels, cooled by liquid nitrogen attached on the Newtonian focus of the 1.88 m Kottamia reflector telescope in Egypt. Comparison star: UCAC4 436-062934. Check star: GSC 0502300278.

Date: 15 December 2014

Observer(s) and affiliation(s):

Liakos, A. - National Observatory of Athens, Institute for Astronomy, Astrophysics, Space Applications, and Remote Sensing, Palaia Penteli, Athens, Hellas (Greece), alliakos@noa.gr

Dakanalis, I. - National and Kapodistrian University of Athens, Department of Astrophysics, Astronomy and Mechanics, Zografos, Athens, Hellas (Greece); National Observatory of Athens, Institute for Astronomy, Astrophysics, Space Applications, and Remote Sensing

Niarchos, P. - National and Kapodistrian University of Athens, Department of Astrophysics, Astronomy and Mechanics, pniarcho@phys.uoa.gr

RA(J2000)	Dec(J2000)	type	Mag.	
20 27 52.536	$+24\ 41\ 30.96$	EW?	14.9 (R)	
Period	Epoch			
0.35806(7) d	2455391.447(1)			
Cross-identification(s):				
$USNO-A2.0\ 1125-16060074 = 2MASS\ 20275251 + 2441305$				

RA(J2000) 20 28 36.715	Dec(J2000) +24 56 04.70		type RR	Mag. 13.1 (R)	
Period			ooch		
0.3468(2) d	245		455392.337(3)		
Cross-identification(s):					
USNO-A2.0 1125-	1125-16097188 = NOMAD1 1149		9-0516720		

Remark: Both stars detected in the FoV of AW Vul and the newly discovered variable (marked as NV1 in the finding chart) 2MASS J20275736+2453029 (Liakos & Niarchos 2010).

Date: 15 December 2014

Observer(s) and affiliation(s):

Liakos, A. - National Observatory of Athens, Institute for Astronomy, Astrophysics, Space Applications, and Remote Sensing, Palaia Penteli, Athens, Hellas (Greece), alliakos@noa.gr

Nanouris, N. - National Observatory of Athens, Institute for Astronomy, Astrophysics, Space Applications, and Remote Sensing, Palaia Penteli, Athens, Hellas (Greece), nanouris@noa.gr

RA(J2000) 22 19 10.737	Dec(J2000) +70 55 55.94	type S	Mag. 19.7 (R)		
Period		Epoch			
Multiperiodic		_			
Cross-identification(s):					
NOMAD1 1609-0153378 = USNO B1.0 1609-0151173					

RA(J2000) 22 19 47.743	Dec(J2000) +70 57 55.88	type EA	Mag. 17.6 (R)	
Period		Epoch		
_		_		
Cross-identification(s):				
NOMAD1 1609-0153459 = USNO B1.0 16		1609 - 0151253		

Remark: Both stars detected in the FoV of the planetary nebula PNG 111.0+11.6. The C-K light curve is given for comparison. NOMAD1 1609-0153378 shows variations on ~ 2 d and $\sim 2-3$ h timescales, therefore it has been classified as "S – Unstudied variable star with rapid light changes".

NOMAD1 1609-0153459: a single primary and a potential secondary eclipse has been observed, ~ 2.1 days apart.

Date: 19 December 2014

Observer(s) and affiliation(s):

Gazeas, K. - Department of Astrophysics, Astronomy and Mechanics, National and Kapodistrian University of Athens, GR 15784, Zografos, Athens, Greece, kgaze@phys.uoa.gr

Iliopoulos, I., AKTIS Astronomical Observatory, Oreokastro GR 57013, Thessaloniki, Greece

RA(J2000) 19 17 27.07	Dec(J2000) +06 29 51.7		type DSCT	Mag. 10.4 (R)	
		_	Epoch 2455062.4224(5)		
Cross-identification	Cross-identification(s): GSC 0476-1362 = TYC 0476-1362-1		0002.1221(0)		

Remark: Detected on 29 September 2007 in the FoV of NGC 6781. Epoch refers to maximum light.

Date: 7 February 2015

Observer(s) and affiliation(s):

Gazeas, K. - Department of Astrophysics, Astronomy and Mechanics, National and Kapodistrian University of Athens, GR 15784, Zografos, Athens, Greece, kgaze@phys.uoa.gr

Karampotsiou, E. - Department of Astrophysics, Astronomy and Mechanics, National and Kapodistrian University of Athens, GR 15784, Zografos, Athens, Greece, sevi.kar@gmail.com

RA(J2000) 05 21 08.24	Dec(J2000) +03 02 51.9		type EA	Mag. 11.33 (V _T - TYC2)
Period		Ep	och	
_		245		
Cross-identification(s):				
GSC 0104-0634 =	04-0634 = TYC 0104-0634-1			

Remark: Detected on 22 January 2014 in the FoV of 1SWASP J052036.84+030402.1.

RA(J2000)	$\mathrm{Dec}(\mathrm{J2000})$		type	Mag.	
07 33 35.77	$-20\ 44\ 37.2$		EA	$12.19 \ (V_{\rm T} - {\rm TYC2})$)
Period		Ep	och		
_		2456730.22(
Cross-identification(s):					
GSC 5991-1106 = TYC 5991-1106-1					

Remark: Detected on 13 March 2014 in the FoV of TY Pup.

RA(J2000)	$\mathrm{Dec}(\mathrm{J2000})$	type	Mag.	
07 32 38.99	$-20\ 46\ 52.1$	DSCT	Γ 11.14 ($V_{\rm T}$ - TYC2	
Period		Epoch		
0.18236(2)		2456714.2422(5)		
Cross-identification(s):				
GSC 5991-1727 =	= TYC 5991-1727-1			

Remark: Detected on 19 February 2014 in the FoV of TY Pup. Epoch refers to maximum light.

RA(J2000)	$\mathrm{Dec}(\mathrm{J2000})$		type	Mag.	
07 32 44.65	$-20\ 43\ 11.6$		DSCT	$11.48 \ (V_{\rm T} - { m TYC}2)$)
Period		Ep	Epoch		
0.04954(5)		245	2456719.3069(2)		
Cross-identification(s):					
GSC 5991-1865 =	= TYC 5991-1865-1				

Remark: Detected on 2 March 2014 in the FoV of TY Pup. Epoch refers to maximum light.

Date: 10 June 2015

Observer(s) and affiliation(s):

Karampotsiou, E. - Department of Astrophysics, Astronomy and Mechanics, National and Kapodistrian University of Athens, GR 15784, Zografos, Athens, Greece, sevi.kar@gmail.com

Gazeas, K. - Department of Astrophysics, Astronomy and Mechanics, National and Kapodistrian University of Athens, GR 15784, Zografos, Athens, Greece, kgaze@phys.uoa.gr

RA(J2000)	$\mathrm{Dec}(\mathrm{J2000})$	type	Mag.	
19 08 03.875	$+37\ 53\ 59315$	EW	15.0 (Rmag -	
			USNO-A2.0)	
Period		Epoch		
0.2812(3)		2457155.419(1)		
Cross-identification(s):				
USNO-				
$A2.0\ 1275-10813091 = GSC2.2\ N030320212363 = 2MASS\ 19080387+3753591 =$				
SDSS J190803.87 $+375359.1 = KIC 2557987$				

Remark: Detected on 12th May 2015 in the FoV of KIC 2835289. Differential magnitudes are given with respect to a sum of several comparison stars in the field.

RA(J2000)	Dec(J2000)	type	Mag.	
19 08 00.309	+38 01 57.20	EW	15.4 (Rmag - USNO-A2.0)	
Period		Epoch		
0.3974(3)		2457155.484(1)		
Cross-identification(s):				
USNO-				
$A2.0\ 1275-10811543 = GSC2.2\ N030320219127 = 2MASS\ 19080032+3801570 =$				
SDSS J190800.33+380157.1 = KIC 2835711				

Remark: Detected on 12th May 2015 in the FoV of KIC 2835289. Differential magnitudes are given with respect to a sum of several comparison stars in the field.

RA(J2000) 19 07 19.580	Dec(J2000) +37 55 15.74	type EW	Mag. 16.0 (Rmag - USNO-A2.0)		
Period		Epoch	/		
0.2850(3)		2457155.506(1)			
Cross-identifica	Cross-identification(s):				
USNO-					
$A2.0\ 1275-10794124 = GSC2.2\ N030320213311 = 2MASS\ 19071959+3755155 =$					
SDSS J190719.58+375515.6 = KIC 2696006					

Remark: Detected on 12th May 2015 in the FoV of KIC 2835289. Differential magnitudes are given with respect to a sum of several comparison stars in the field.

RA(J2000)	$\mathrm{Dec}(\mathrm{J2000})$	type	Mag.	
19 07 05.799	$+37\ 54\ 34.77$	EW	16.4 (Rmag -	
			USNO-A2.0)	
Period		Epoch		
0.2921(6)		2457155.539(2)		
Cross-identification(s):				
USNO-				
$A2.0\ 1275-10788218 = GSC2.2\ N030320212746 = 2MASS\ 19070579+3754343 = 320212746$				
SDSS J190705.80 $+375434.3 = KIC 2695854$				

Remark: Detected on 12th May 2015 in the FoV of KIC 2835289. Differential magnitudes are given with respect to a sum of several comparison stars in the field.

RA(J2000)	$\mathrm{Dec}(\mathrm{J2000})$	type	Mag.	
19 08 09.638	$+37\ 56\ 16.85$	EW	16.1 (Rmag -	
			USNO-A2.0)	
Period		Epoch		
0.2691(8)		2457155.556(1)		
Cross-identification(s):				
USNO-				
$A2.0\ 1275-10815489 = GSC2.2\ N030320214179 = 2MASS\ 19080965+3756163 =$				
SDSS J190809.64+375616.3 = KIC 2696645				

Remark: Detected on 12th May 2015 in the FoV of KIC 2835289. Differential magnitudes are given with respect to a sum of several comparison stars in the field.

Date: 10 November 2015					
Observer(s) and affiliation(s):					
Gazeas, K Dep	Gazeas, K Department of Astrophysics, Astronomy and Mechanics, National and				
Kapodistrian Un	iversity of Athens, GF	R 15784, Zografo	s, Athens, Greece, kgaze		
phys.uoa.gr					
RA(J2000)	$\mathrm{Dec}(\mathrm{J2000})$	type	Mag.		
20.29.24.06	105 16 29 1	EW	7.0/Vmag HCNO		

20 32 24.06	+05 16 28.1	EV	-	7.9(Vmag-USNO- A2.0)
Period		Epoch		
0.3682(1)		2456495	6.6525(9)	
Cross-identifica	tion(s):			
HD 195634 = GS	SC 0518-1033 = SAO	125914 =	= 2MASS	J20322406 + 0516281 =
USNO-A2.0 0900	-18660708			

Remark: Detected 21 July 2013 in the FoV of MR Del.

	RA(J2000) 06 03 37.68	Dec(J2000) +27 35 11.4		type EW	Mag. 12.9(Rmag - USNO A2.0)	
	Period		_	och		
	0.50316(2)		245	6401.2640(9)		
	Cross-identification(s):					
	2MASS J06033762+2735111 = USNO-A2.0 1125-03275240 = GSC N2221310957			GSC N22213109574		
= USNO-B1.0 1175-0139046						

Remark: Detected 12 November 2012 in the FoV of BG Gem.

Date: 9 May 2016 Observer(s) and affiliation(s): Liska, J. - Department of Theoretical Physics and Astrophysics, Masaryk University, Kotlarska 2, 611 37 Brno, Czech Republic, jiriliska@post.cz

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Zeida, M. - Department of Theoretical Physics and Astrophysics, Masaryk Univer-

Zejda, M. - Department of Theoretical Physics and Astrophysics, Masaryk University, Kotlarska 2, 611 37 Brno, Czech Republic, zejda@physics.muni.cz

RA(J2000) 14 09 07.15	Dec(J2000) -45 18 18.0		Mag. 17.35(2) mag (R)
			= mean V-C value
		RRab type	+ USNO R mag-
			nitude of Compar-
			ison star

Period -	Epoch 2457478.771(2) HJD (maximum)
Cross-identification(s):	
CzeV843 Cen	

Remark: Variability detected 31 March 2016 in the FOV of V834 Cen. The CzeV843 Cen is in the vicinity (about 3.5 arcsec) of a star USNO-A2 0375-20155518 with similar brightness (CzeV843 Cen is about 0.3 mag fainter in R-band). Therefore, it is a blend for many of sky surveys. Observations were performed with the Danish 1.54-m telescope at La Silla, Chile in two nights. Another information is present in the CzeV catalogue http://var2.astro.cz/czev.php. Possible pulsation period can be 0.43 or 0.64 d.

Date: 12 September 2016
Observer(s) and affiliation(s):
Essam, A Astronomy Department, National Research Institute of Astronomy and
Geophysics (NRIAG), 11421 Helwan, Egypt, essam60@yahoo.com
El-Sadek, M. A Astronomy Department, NRIAG, 11421 Helwan, Egypt
Shokry, A Astronomy Department, NRIAG, 11421 Helwan, Egypt
Darwish, M. S Astronomy Department, NRIAG, 11421 Helwan, Egypt

RA(J2000)	$\mathrm{Dec}(\mathrm{J2000})$		type		Mag.	
20 00 59.917	$+05\ 44\ 11.93$		EW		14.807-15.348	
Period	od Epoch					
$0.20569{\rm d}$	$0.20569 \mathrm{d}$ 245			57602.5177 ± 0.0010		
Cross-identification(s):						
UCAC4 479-113658 = 2MASS J20005992+0544120 = GSC2.3 N1Y0035356						

Remark: All the observations have been carried out by using the EEV CCD 42-40 camera with a format of 2048×2048 pixels, cooled by liquid nitrogen attached on the Newtonian focus of the 1.88-m Kottamia reflector telescope in Egypt.

the location of Kottamia Astronomical Observatory (KAO) as follows:

Latitude: 29°56′02″43 N Longitude: 31°49′40″10 E

Height: $467 \mathrm{m}$

International code = 088

Date:	19	September	2016

Observer(s) and affiliation(s):

El-Sadek, M. A. - Astronomy Department, National Research Institute of Astronomy and Geophysics (NRIAG), 11421 Helwan, Egypt,

Essam, A. - Astronomy Department, NRIAG, 11421 Helwan, Egypt, essam60@yahoo.com

Shokry, A. - Astronomy Department, NRIAG, 11421 Helwan, Egypt

Saad, S. - Astronomy Department, NRIAG, 11421 Helwan, Egypt

Darwish, M. S. - Astronomy Department, NRIAG, 11421 Helwan, Egypt

RA(J2000) 20 01 07.694	Dec(J2000) +05 42 21.68		type EW	Mag. 16.07-16.52	
Period	od Epoch				
$0.35292 \mathrm{d}$ 2		245	2457604.4082 ± 0.0006		
Cross-identification(s):					
$UCAC4\ 479-113711 = 2MASS\ J20010770+0542216 = USNO-B1.0\ 0957-0508120$					

Remark: All the observations have been carried out by using the EEV CCD 42-40 camera with a format of 2048×2048 pixels, cooled by liquid nitrogen attached on the Newtonian focus of the 1.88-m Kottamia reflector telescope in Egypt.

the location of Kottamia Astronomical Observatory (KAO) as follows:

Latitude: 29°56′02″43 N Longitude: 31°49′40″10 E

Height: 467 m

International code = 088

Date: 6 October 2016

Observer(s) and affiliation(s):

Csizmadia, Sz. - Deutsches Zentrum für Luft- und Raumfahrt, Institut für Planetenforschung, D-12489 Berlin, Rutherfordstrasse 2., Germany, szilard.csizmadia@dlr.de

Sedaghati, E. - Deutsches Zentrum für Luft- und Raumfahrt, Institut für Planetenforschung, D-12489 Berlin, Rutherfordstrasse 2., Germany; European Southern Observatory, Karl-Schwarzschild-Strasse 2, D-85748 Garching bei München, Germany; Zentrum für Astronomie und Astrophysik, TU Berlin, Hardenbergstr. 36, 10623 Berlin, Germany, esedagha@eso.org

Boffin, H. M. J. - European Southern Observatory, Karl-Schwarzschild-Strasse 2, D-85748 Garching bei München, Germany, hboffin@eso.org

RA(J2000)	$\mathrm{Dec}(\mathrm{J2000})$		type		Mag.
09 53 42.692	-45 43 15.95		δ Scuti		V = 13.67 mag
Period		Ep	och		
~0.1 d		2457418.705			
Cross-identification(s):					
2MASS 09534278-4543166					

Remark: The target was a comparison-star candidate for the spectrophotometric observations of two transits of WASP-19b. Although the differential light curve of the comparison – check star shows some airmass-effect, the variability of 2MASS 09534278-4543166 is clearly visible on both nights when we observed it. The peak-to-peak amplitude is 0.04 magnitude and a main period of \sim 0.1 days can be suspected. The J-K colour index is 0.217 (based on the 2MASS Point Source Catalogue). Neglecting interstellar reddening, this corresponds approximately \sim F3 spectral type. The period, the colour index and overall light curve shape suggest a δ Scuti type variable. The object is not listed as a known variable star in GCVS, Catalina Survey or VSX as of the submission date of this note. Figure 1 shows the observed light curve. Notice that the star has a close companion (Fig. 44) and because we did spectroscopic observations with FORS2 (and then we obtained spectrophotometric light curves convolving the spectra with different filter functions) and since the the companion was in the same aperture as the target star, we cannot decide whether the brighter or the fainter star is the variable, but we suspect that brighter one produces the observed light-variation.

Fig. 45. - The light curve of the variable star with solid line on the nights 30 January 2016 (JD 2 457 418) and 29 February 2016 (JD 2 457 448). The dashed curves show the differential light curves of the comparison and the check star. The plotted differential magnitude-curves were shifted by some constant values for sake of clarity.

Acknowledgements: Sz. Cs. acknowledges the Hungarian OTKA Grant K113117.

Reference:

Liakos, A., Niarchos, P., 2010, IBVS, 5998, 3