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GSC 4666:209 IS A NEW VARIABLE

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Name of the object:	
GSC 4666:209, IRAS Point Source Catalog: 23590:0402	
Equatorial coordinates:	Equinox:
R.A. = $0^{\text{h}}01^{\text{m}}38^{\text{s}}.7$ DEC. = $-3^{\circ}45'22''.3$	J2000
Observatory and telescope:	
TASS Mark III Camera – The data was taken with three custom-made CCD cameras each using Kodak KAF-0400 chips and 135-mm camera lenses operating in drift-scan (Time Delay Integration) mode.	
Detector:	Kodak KAF-0400
Filter(s):	V and I bands of Johnson–Cousins system
Transformed to a standard system:	Johnson–Cousins Band(s)
Standard stars (field) used:	The I-band photometric magnitudes were obtained using all-sky photometry, photometric first order transformation coefficients were calculated using Landolt standard stars in the region of -4.5 to -1.5 degrees in declination. Photometric zero points were calculated using Tycho stars present in each image. An analysis of the photometric accuracy performed on a subset of the reduced data can be found in TASS Technical Note #45 (Richmond, M.W.).
Availability of the data:	
Through IBVS Web-site as 4653-t1.txt	
Type of variability:	Semi-regular

Remarks:

The Amateur Sky Survey (Droege and Gombert 1998), Dayton, Ohio station has discovered a new semi-regular variable (GSC 4666:209). This new variable is not included in the General Catalog of Variable Stars or New Suspected Variables (Kholopov et al., 1985). This star was observed a total of 26 times between July 30, 1997 and October 23, 1998. The V-band magnitudes were also measured for this new variable but are considered too faint to publish. The (V-I) color at maximum is +2.67.

A preliminary period estimate for this new variable (based on the collected data) is 83.3 days. A better period estimate will be published when more data has been collected. Data was reduced using a suite of astrometric/photometric programs written by Arne Henden (Henden and Kaitchuck 1982) of the United States Naval Observatory, Flagstaff station.

Acknowledgements:

I would like to thank Brian Skiff of Lowell Observatory and Michael Richmond of the Rochester Institute of Technology for their help and advice on preparing this Technical Note. The phase plot shown in Figure 1 was prepared by Michael Richmond.

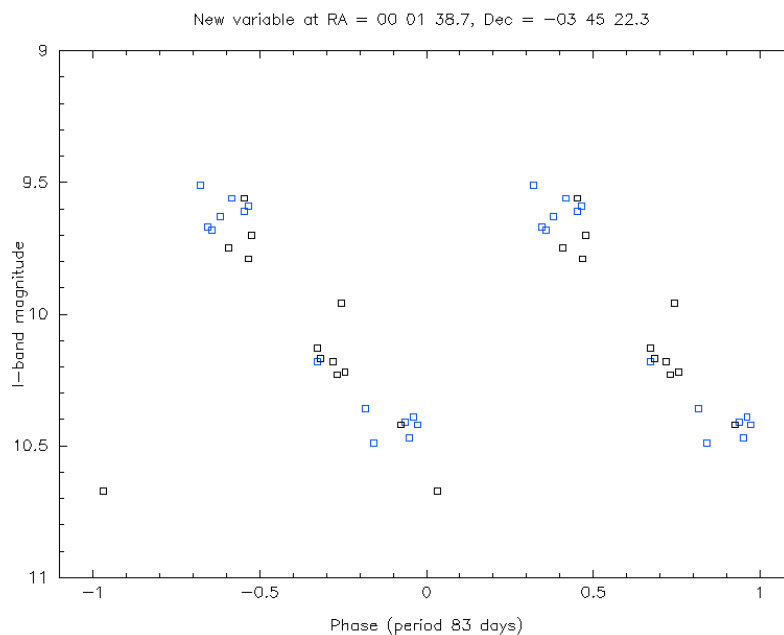


Figure 1. Phase plot of the new variable

References:

- Droege T.R., Gombert G.J., 1998, The Amateur Sky Survey, Sky and Telescope, February issue
- Henden, A.A., Kaitchuck, R.H., 1982, Astronomical Photometry, Willmann-Bell Inc.
- Kholopov, P.N., editor et al., 1985, General Catalog of Variable Stars, Moscow
- Richmond, M.W., TASS Technical Note #45, "An Analysis of Dayton TASS Data Reduced With Flatcomp Program"
- URL: <http://a188-L009.rit.edu/tass/technotes/tn0045.html>

ERRATA

In IBVS Nos. 4555 and 4633 we presented CCD photometric minima observations (together with photoelectric ones) of several eclipsing binary systems. Due to an unfortunate programming bug most of the minimum times have an error in the third decimal place of JD. This erratum contains the corrected moments of minima. Table 1 shows the corrigenda to IBVS No. 4555. Table 2 should be used as a total replacement of the Table of IBVS No. 4633.

Table 1

Star	Min. HJD +2400000	Star	Min. HJD +2400000
AS Cam	50519.5238	V453 Cyg	50235.4843
PV Cas	50244.4435	V477 Cyg	50237.4480
GK Cep	50210.453	V1136 Cyg	50270.4694
	50225.4297	DI Her	50238.4929
MR Cyg	50230.4608	UV Leo	50513.5487

Table 2

Star	Min. HJD +2400000	error ±	Min. type	Points used	Filter	Obs.'s name	Instr.	Comp.
RT And	50964.5050	2	I	51	V	Bir	Ba50	HD 218915
AB And	50966.5525	3	II	30	V	Bir	Ba50	GSC 2763-0683
	50984.4721	4	II		V	Bir	Ba50	
	51016.5005	1	I	41	V	Bor	Ba50	
OO Aql	50950.486:	1	I	19	V	Bor	Ba50	HD 187146
	50956.5658:	2	I	61	V	Bir	Ba50	
	50967.4659	1	II	45	V	Bor	Ba50	
Y Cam	50872.4672	3	I	77	-	Bor	Ba50	GSC 4527-1983
AS Cam	50900.351	1	II	163	V	Bor	Ba50	GSC 4347-0466
RZ Cas	50871.4318	3	I	414	-	Bor	Ba50	GSC 4317-1578
TV Cas	51005.45:	1	II	190	V	Bir	Ba50	GSC 3665-0026
PV Cas	51015.5244	5	I	55	V	Bir	Ba50	GSC 4010-1432
VW Cep	50871.6279	5	I	102	-	Bor	Ba50	GSC 4585-2387
	50900.5736	3	I	54	V	Bor	Ba50	
	50941.3443	3	II	51	V,B,R	Bor	Ba50	
	50941.4859	3	I	61	V,B,R	Bor	Ba50	
	50942.4573	5	II	59	V,B,R	Bir	Ba50	
	50942.5990	5	I	28	V,B,R	Bir	Ba50	
XX Cep	51018.517:	6	II	91	V	Bor	Ba50	GSC 4288-0186
CQ Cep	50948.5431	6	I	200	V	Bir	Ba50	GSC 3991-1316
DL Cyg	51038.485	3	I	170	V,R	Bor	Ba50	GSC 3595-0816
MR Cyg	50962.4954	1	II	87	V	Bir	Ba50	GSC 3609-1220
	51014.4830	5	II	124	V	Bir	Ba50	
V477 Cyg	50974.4054	2	I	53	V	Bor	Ba50	GSC 2674-0910
AK Her	50865.6038	2	I	53	V,B	Bir	Pi50	BD+16°3123
	50866.6601	1	II	78	-	Bor	Ba50	GSC 1536-0928
	50884.5722	2	I	82	V	Bor	Ba50	
	50903.5413	3	I	78	V	Bir	Ba50	
	50971.4060	3	I	266	R	Bor	Ba50	

Table 2 (cont.)

Star	Min. HJD +2400000	error \pm	Min. type	Points used	Filter	Obs.'s name	Instr.	Comp.
GU Her	50970.434	2	I	215	-	Bor	Ba50	GSC 2581-2418
	50983.4675	3	I	200	-	Bir	Ba50	
	51033.421	4	II		-	Bir	Ba50	
HS Her	50945.4749	2	I	283	V	Bir	Ba50	GSC 2113-2242
	50972.4946	3	II	343	V	Bir	Ba50	
	50981.5011	3	I	125	V	Bir	Ba50	
MM Her	50940.5670	5	I	182	V	Bir	Ba50	GSC 1565-2199
SW Lac	50961.518	1	II	49	V	Bir	Ba50	GSC 3215-0906
	50986.5358	1	II	54	V	Bir	Ba50	
	51017.4831	1	I	35	V	Bor	Ba50	
UV Leo	50899.4051	1	II	60	V	Bir	Ba50	GSC 0845-0121
GP Vul	50946.4643	8	II	65	V	Bir	Ba50	GSC 2151-2731

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The recently published No. 4630 issue of the IBVS contains two unfortunate errors. The correct declination of V370 And is $+45^{\circ}26'37''.30$ (2000) instead of $+44^{\circ}$ etc. Regrettably the name of John T. Lee as the co-author does not appear in the published version, for which we apologize.

The Editors