

COMMISSION 27 OF THE I. A. U.  
 INFORMATION BULLETIN ON VARIABLE STARS

Number 2651

Konkoly Observatory  
 Budapest  
 3 January 1985  
 HU ISSN 0374 - 0676

PHOTOELECTRIC OBSERVATIONS OF V375 Cas

The eclipsing binary V375 Cas, BD+62°2332, was observed photoelectrically with the 60 cm telescope at Beijing Astronomical Observatory in August-~~November~~ 1982.

A total of 604 photoelectric BV observations were obtained on 8 nights. The coordinates of the comparison star and check star are given in Table I.

Table I

Name	BD No.	R.A. (1982)	Dec. (1982)
Comp. Star	+62°2333	23 <sup>h</sup> 56 <sup>m</sup> 23 <sup>s</sup>	63°00'49"
Check Star	+62°2331	23 56 00	63 06 31

All the observations were corrected for differential extinction and transferred to UB system. The times of minimum light determined with the Kwee and Van Woerden's method are given in Table II.

Table II

JD Hel.	filter	m.e.	rem.
2445000+			
210.0803	B	0.0006	II
.0824	V	0.0020	II
235.1235	V	0.0005	II
.1249	B	0.0006	II
265.3291	V	0.0011	I
.3314	B	0.0004	I
266.0680	V	0.0014	II
.0683	B	0.0011	II
294.0618	V	0.0014	II
.0631	B	0.0016	II
296.2715	B	0.0009	I
.2743	V	0.0006	I
635.1497	V	0.0006	I

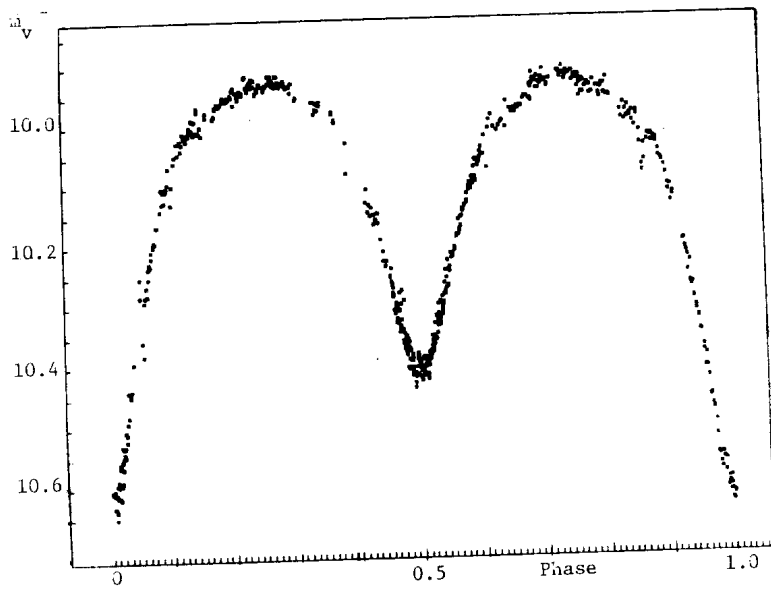


Figure 1 a

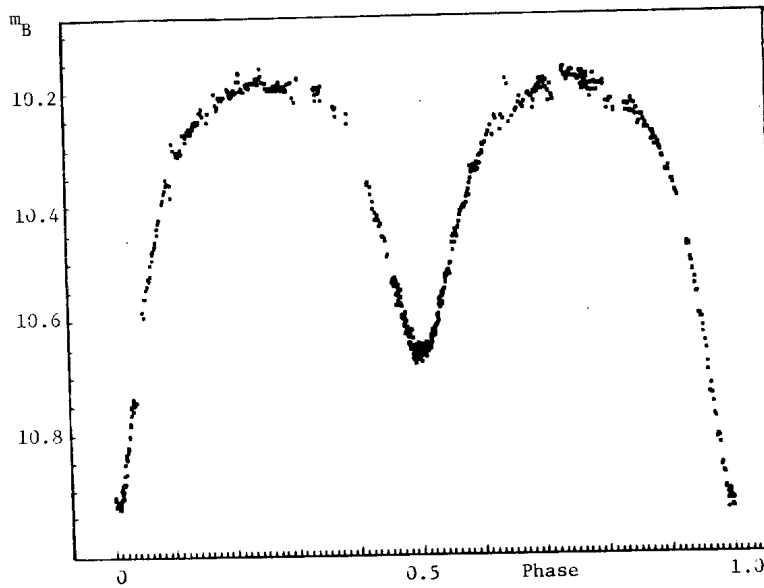


Figure 1 b

BV light curves of V375 Cas in 1982.

Using the above new photoelectric minima together with the photographic minima given by Chuprina (1959), Grigoriskii (1959), Satanova (1960) and Kukarkin and Novikov (1960), the new ephemeris has been derived by the weighted least squares as follows

$$\text{JD Hel. Min I} = 2445635.1514 + 1^d.47338191^{\circ}E \\ \pm .0016 \pm .00000028$$

The B, V light curves are given in Figure 1.

The light curve of V375 Cas is similar to that of AW ac (Jiang et al., 1983). A complete analysis of the light curves of V375 Cas will be presented elsewhere.

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- Brodskar, I.S., 1955 Information of Krimea Astrophysical Observatory 14.  
Kukarkin, B.V., and Novikov, I.D., 1960, Variable Stars 12 No. 5, 366  
Chuprina, R.E., 1959, Variable Stars 12, No.2. 152  
Grigoriskij, V.M., 1959, Variable Stars 12, No.2 149  
Satanova, I.A., 1960, Variable Stars 13, No.2 125  
Jiang, Z.J., Leung, K.C., and Shen, L.C., 1983, A.J. 88, 1679

## Corrigenda

IBVS No.	Page	Line	incorrect	correct
2274	2	3	2444985.908	2444985.1908
2275	1	7	four times	three times
2275	1	8	four times	three times

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