

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

Number 3156

Konkoly Observatory  
Budapest  
15 March 1988  
HU ISSN 0374 - 0676

NEW PHOTOELECTRIC TIMES OF MINIMA OF V839 OPHIUCHI

V839 Oph is a W UMa-type variable which shows noticeable changes in its light curves. These changes could arise from activity on the surface of the common envelope or from some material surrounding the system (Lafta and Grainger, 1985).

During a program of photoelectric observations of eclipsing binary stars, the system was observed in two colours (B and V) on June 9-16, 1985. The observations were made with a 48-inch Cassegrain reflector and a two beam multi-mode photometer (Goudis and Meaburn, 1973). The two intermediate pass-band filters used were selected to be in close accordance with the standard UB<sub>V</sub> colour system. BD+9°3589 and BD+9°3573 were used as comparison and check stars respectively.

Five times of minima observed during this season were calculated by the method of bisecting chords which connect the points of equal magnitudes on the opposing branches near the minimum.

Table I

HJD	E	O-C	Filter	Rem.
2440000+				
6228.5744	14132.5	0.0354	B,V	MinII
6229.3928	14134.5	0.0358	B,V	MinII
6230.4152	14137	0.0357	B,V	MinI
6231.4379	14139.5	0.0380	B,V	MinII
6233.4817	14144.5	0.0348	B,V	MinII

The successive columns of Table I contain the heliocentric time of minimum, the number of cycles E, the difference O-C, the filter used and remarks. The O-C values were computed according to the ephemeris

$$\text{MinI} = \text{JD Hel } 2440448.4129 + 0.40899532 \times E$$

which has been taken from the "General Catalogue of Variable Stars", Vol. II, edited by Kholopov et al. (1985).

A detailed analysis of the observations of V839 Oph will be given elsewhere.

P.G. NIARCHOS  
Section of Astrophysics,  
Astronomy and Mechanics  
Department of Physics  
University of Athens  
GR-157 83 Zografos  
Athens-GREECE

References:

- Goudis, C. and Meaburn, J.: 1973, *Astrophys. Space Sci.* 20, 149.  
Kholopov, P.N. et al.: *General Catalogue of Variable Stars*, Vol. II,  
"Nauka", 1985.  
Lafta, S.J. and Grainger, J.F.: 1985, *Astrophys. Space Sci.* 114, 23.