

COMMISSION 27 OF THE I. A. U.
INFORMATION BULLETIN ON VARIABLE STARS.
Number 1357 *

Konkoly Observatory
Budapest
1977 October 25

A PROBABLE ECLIPSE IN HD 165590

One component of the visual binary HD 165590 (ADS 11060) has been found by Morbey et al. (1977) to be a spectroscopic binary with period $0^d.879511$. At their suggestion the present writer undertook photometric observations, to check for possible light variations arising from distortions of the stars.

The observations were made between 1977 August 16 and October 3 using a single channel photometer on the 0.3 m telescope of the University of Victoria and are in the V band only. HD 165569 was used as a comparison star and HD 165524 as a check star. Both visual components of HD 165590 were unavoidably observed together.

The observations reveal variations of the order of $0^m.05$ from night to night, which are apparently correlated with phase in the spectroscopic orbit. In addition a very shallow eclipse ($0^m.05$) was observed at about 5^h0^m UT August 16 and again at about 7^h45^m UT September 6. Neither was covered completely and so the times are accurate to $\pm 10^m$ only. However they occurred very close to the expected phase for primary eclipse in the orbit.

*A most unfortunate typographical error occurred in I.B.V.S. No. 1357: some very important words were omitted from the bulletin. Here we publish the correct version of Dr. Scarfe's note. Please replace I.B.V.S. No. 1357 published earlier with this.

(Editor)

At present observations have been obtained at nearly all phases of the orbit including the phase at which secondary eclipse might be expected, and no such eclipse is detectable.

Further observations are planned to elucidate the nature of the out-of-eclipse variation, to obtain light curves in other colours, and to detect any changes that may arise in connection with the forthcoming periastron passage in the very eccentric visual orbit.

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Reference:

Morbey, C.L., Batten, A.H., Andrews, D.H., and Fisher, W.A.
1977. Pub.Ast.Soc. of the Pacific, in press