

COMMISSION 27 OF THE I. A. U.
 INFORMATION BULLETIN ON VARIABLE STARS
 Number 1166

Konkoly Observatory
 Budapest
 1976 August 13

HDE 255930 - A NEWLY-DISCOVERED VARIABLE IN ORION

In the course of a photoelectric and spectroscopic study of the OB stars in northern Monoceros (Turner, 1976, *Astrophys. J.*, in press) the star HDE 255930 (1900 coords: $6^h 16^m.5, +10^\circ 57'$) was found to vary by 0.21 magnitude in V, according to observations on four different nights in November 1974 and February 1975. No changes in color were detected over this period, and a spectrogram of the object led to an MK classification of B2 IV for the star. In order to learn more about the nature of the variability, additional photoelectric observations of this star were obtained in March 1976 with the University of Toronto 61-cm telescope on Cerro Las Campanas, Chile. A catalog of UBV observations for this star follows.

JD 2442000+	V	B-V	U-B
361.798	9.708	+0.145	-0.572
362.646	9.923	+0.101	-0.524
363.650	9.716	+0.109	-0.557
460.559	9.863	+0.108	-0.600
460.651	9.841	+0.103	-0.549
836.611	9.772	+0.122	-0.596
837.597	9.739	+0.117	-0.557
838.528	9.919	+0.099	-0.557
838.530	9.919	+0.101	-0.557
839.535	9.755	+0.105	-0.566
839.536	9.760	+0.100	-0.566
839.618	9.792	+0.085	-0.566
840.533	9.753	+0.104	-0.563
840.535	9.749	+0.112	-0.560
844.546	9.959	+0.100	-0.533
844.548	9.925	+0.109	-0.542
844.591	9.926	+0.126	-0.568
844.592	9.930	+0.111	-0.555
844.618	9.908	+0.104	-0.536
844.620	9.909	+0.118	-0.536
846.550	9.693	+0.102	-0.547
846.551	9.691	+0.112	-0.558
Mean	9.824	+0.109	-0.558

On the basis of these observations, HDE 255930 appears to be an eclipsing binary system of the Beta Lyrae type. A period of about 3 days gives the best fit to the data, although a period of 6 days is also permitted. Further observations of this newly-discovered variable would clearly be of interest.

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