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ECLIPSE IN CI Cyg BINARY-SYSTEM IN 1980

Photometric observations of the symbiotic eclipsing-binary star CI Cyg have been continued in 1980 from March,31 to December 1. (Belyakina, 1976,1979a,b,1980)

These observations were very important because of the next expected eclipse in CI Cyg binary-system for summer 1980.

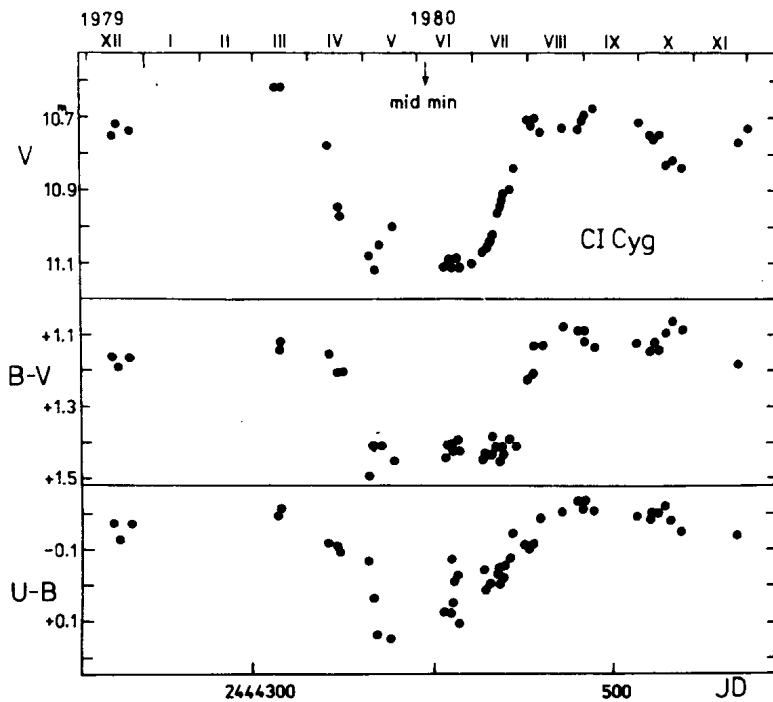


Figure 1

The results of UBV observations in 1980 and those of the end of 1979 are plotted in Fig.1. Unfortunately, due to bad weather conditions the number of the observations for the eclipse ingress was not sufficient. It is seen in Fig.1 that all three curves showed the eclipse effect. The amplitudes of the light variations in V,B,U-bands are  $0.^m45$ ,  $0.^m8$ ,  $1.^m0$ , respectively. Considerable U-light fluctuations are seen in minimum. V magnitude before the eclipse was  $0.^m1$  less than after it. The minimum center was near 1980 June 6.

Our observations of 1975 (Belyakina, 1976, 1979a) and those of 1980 are compared in Fig.2. From Fig.2 it is seen that as the durations of both minima as minimum V magnitudes are close to each other.

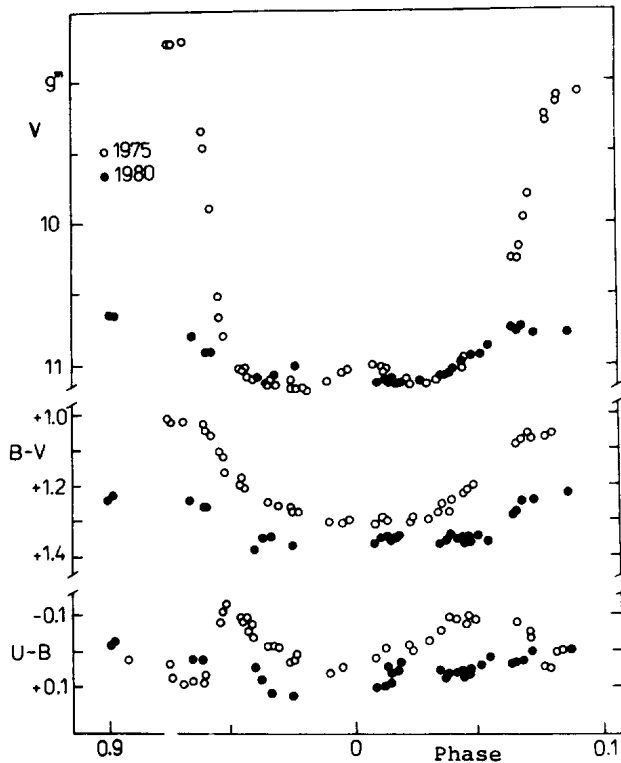


Figure 2

But (B-V) and (U-B) colour indices in 1980 were redder than in 1975. Moreover the form of the (U-B) curve variations in 1980 changed as compared with 1975. These facts evidence that U-band radiations in the eclipse minimum decreased considerably from 1975 to 1980. One of the possible causes of this effect might be the decrease of U-light radiating region.

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