

IW Aur, a New Classical Cepheid

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Star Name:	IW Aur, GSC 2407-02050, S 08534, NSVS 6974851		
Coordinates (J2000):	05 32 35.09, +33 21 53.5		
Variability type:	DCEP;	Limits, System:	12.6: - 12.9: (R);
Period:	7.30 d;	Epoch(max):	JD 2451533.6

Remarks:

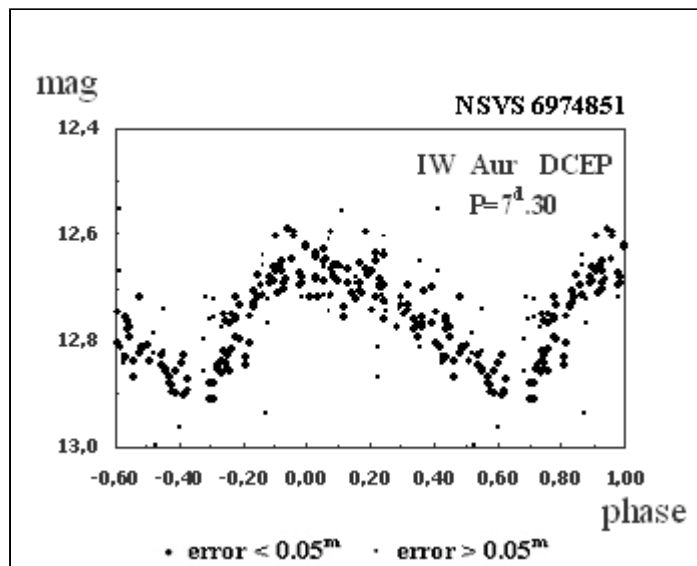
The variability of IW Aur was discovered by Hoffmeister (1964). The variable was classified in the GCVS as a semiregular pulsating star (SR) without light elements. According to ROTSE1 data (Wozniak et al., 2004), it is a new classical Cepheid. $M-m = 0.33P$. Apparently NSVS 6974851 is a blended image of two or even three stars (IW Aur, GSC 2407-00366 and GSC 2407-01936). Thus, the magnitudes in maximum and minimum are not confined to IW Aur, and the amplitude of variability is underestimated.

References:

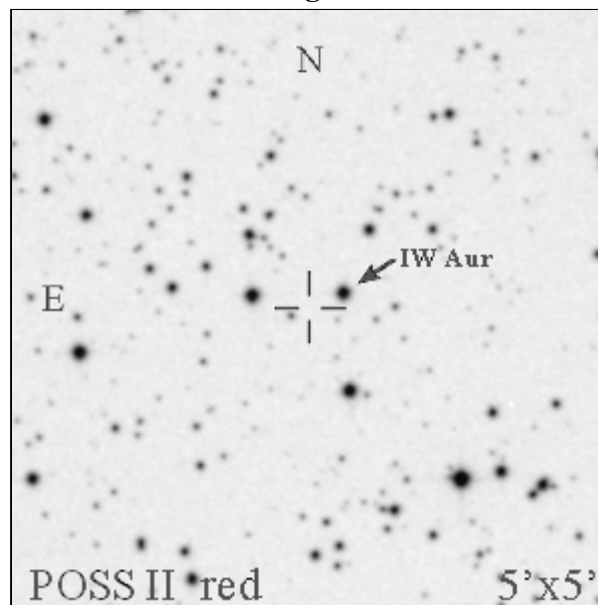
Hoffmeister, C., 1964, AN 288, H.2/3, 49

Wozniak, P.R., Vestrand, W.T., Akerlof, C.W. et al., 2004, Astron. J., 127, 2436

Light Curve



Finding Chart



Finding chart. The cross shows the position of NSVS 6974851 that really is a blend of several stars.