

COMMISSIONS 27 AND 42 OF THE IAU  
INFORMATION BULLETIN ON VARIABLE STARS  
Number 4356

Konkoly Observatory  
Budapest  
29 July 1996

*HU ISSN 0374 - 0676*

**NSV 09136, AN RR LYRAE TYPE STAR IN OPHIUCHUS**

NSV 09136 (= HV 10972 = CSV 003258 = GSC 0996.0190) was announced as a variable star by Hughes-Boyce and Huruhata (1942). According to Kholopov (1982), this object is an RR Lyrae star with a photographic magnitude variation from  $13^m.5$  to  $14^m.3$ . No additional information is given.

For 18 days, from 14 May 1996 to 10 June 1996, NSV 09136 was observed in the V band using a Starlight Xpress CCD camera attached to the Newtonian focus of the 0.5-m telescope at l'Ametlla del Valles Observatory (Spain). GSC 0996.1153 and GSC 0996.1153 were used as comparison and check stars respectively (Figure 1).

Observations showed that NSV 09136 is, in fact, an RR Lyrae star with an amplitude of  $0^m.95$  in the V band, an asymmetry factor  $(M-m)/P=0.12$ , and a period over 16.5 hours (Figure 2). Photometric measurements may be slightly affected by crowding due to the fact that there is a faint star close to the variable, which not always could be satisfactorily excluded in the synthetic aperture reduction process.

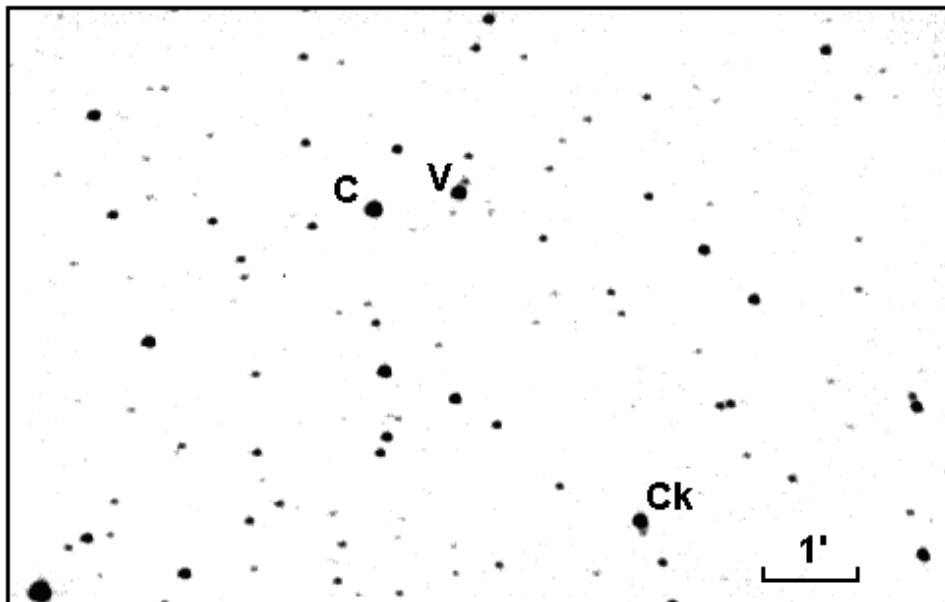


Figure 1. V=NSV 09136, C=Comparison star, Ck=Check star. North is on top

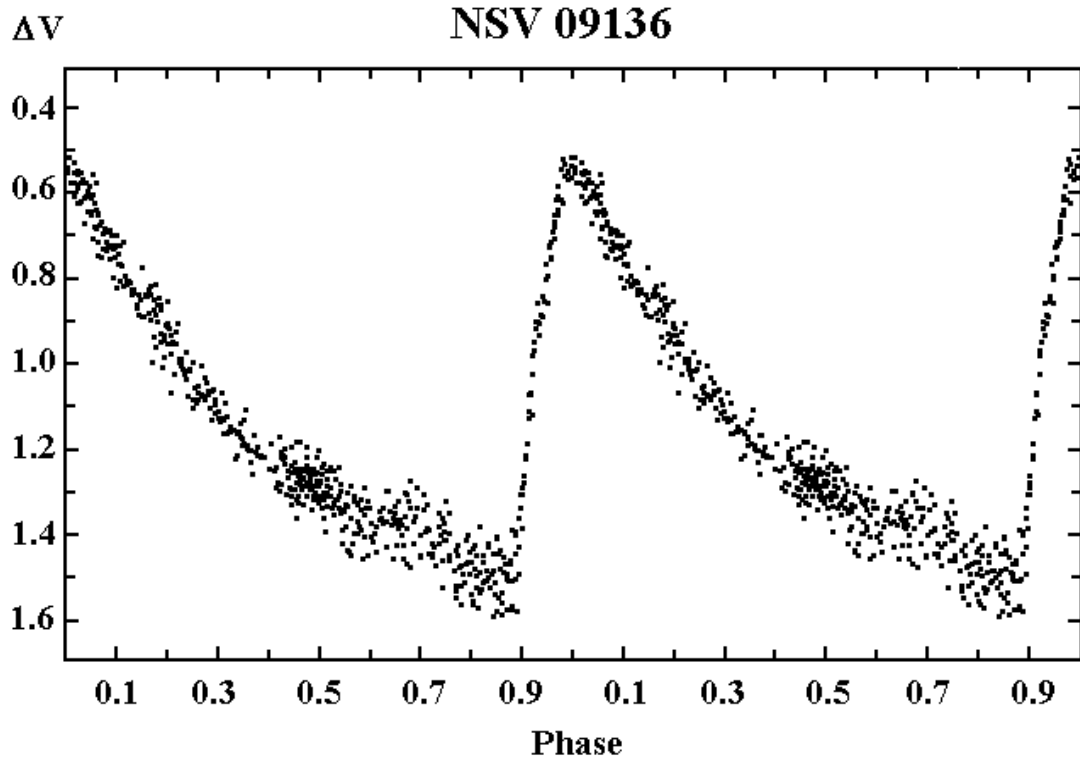


Figure 2

The following ephemeris has been also derived:

$$\begin{aligned} \text{Max.} &= \text{HJD } 2450241.467 + 0^{\text{d}}6966 \times E \\ &\pm 0.002 \pm 0.0003 \end{aligned}$$

Antonio GARRIGOS SANCHEZ  
 Grup d'Estudis Astronòmics  
 Apartado 9481  
 08080 Barcelona  
 Spain  
 e-mail:gea@astro.gea.cesca.es

#### References:

- Hughes-Boyce, E., Huruhata, M., 1942, Annals of the Astronomical Observatory of the Harvard College 109, No. 4  
 Kholopov, P. N., editor, 1982, New Catalogue of Suspected Variable Stars, Moscow