

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

Number 4960

Konkoly Observatory
Budapest
12 October 2000

HU ISSN 0374 – 0676

2000 BVR PHOTOMETRY OF FK COMAE

TAŞ, G., EVREN, S.

Ege University Observatory, 35100 Bornova, İzmir, Turkey
e-mail: tas@alpha.sci.ege.edu.tr, sevren@astronomy.sci.ege.edu.tr

Name of the object:	
FK Com = BD +24°2592 = HD 117555	
Equatorial coordinates:	Equinox:
R.A. = 13 ^h 30 ^m 46 ^s .80 DEC. = 24°13'96	2000
Observatory and telescope:	
Ege University Observatory, 48-cm Cassegrain telescope	
Detector:	Hamamatsu, R4457 (PMT)
Filter(s):	<i>B</i> , <i>V</i> and <i>R</i> filters of Johnson <i>UBVR</i> system
Comparison star(s):	BD +24°2593
Check star(s):	BD +25°2643
Availability of the data:	
Upon request	
Type of variability:	FK
Remarks:	
<p>The 2000 observations of FK Com were carried out between February 07 and June 27, 2000. 212 data points in each filter were obtained during 15 nights. The light elements are taken from Jetsu et al. (1993). The mean light and colour curves obtained in three colors (<i>B</i>, <i>V</i>, <i>R</i>) are shown in Figure 1. Circles and squares represent the nightly means obtained between February 7 and June 7, 2000, and between June 16 and June 27, 2000, respectively. As it can be seen from Figure 1, the minimum of the light curve obtained in <i>V</i> filter was shifted from phase 0.81 to phase 0.66 (about 54° in the longitude). At the same time, the amplitude of the <i>V</i>-light curve changed; it increased from 0^m11 to 0^m15 in <i>V</i> band. In Figure 2 the colour index variations obtained in the colour indices <i>B</i> – <i>V</i> and <i>V</i> – <i>R</i> are shown. The symbols are the same as in Figure 1. While the shift of the minimum of the wave-like distortion on the light curve of FK Com is obvious, it is not possible to see this behaviour on the colour index curves.</p>	

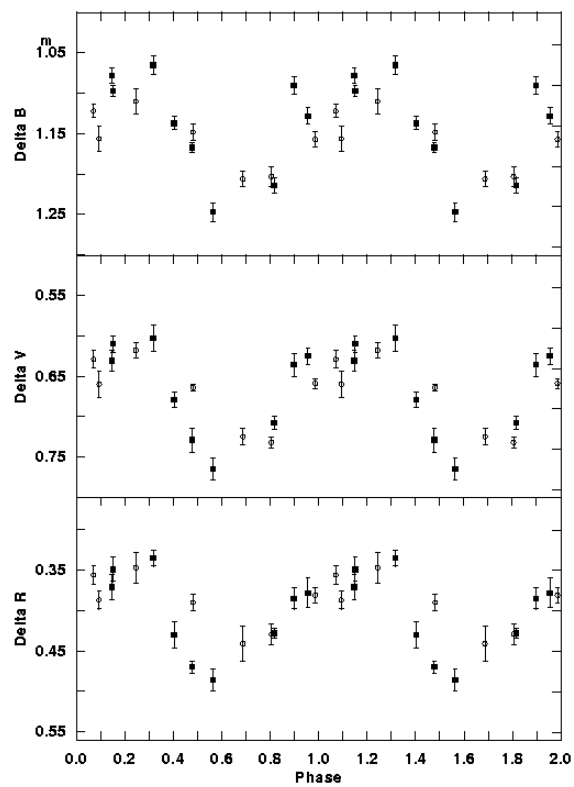


Figure 1. The B , V , R light curves obtained in 2000 of FK Com

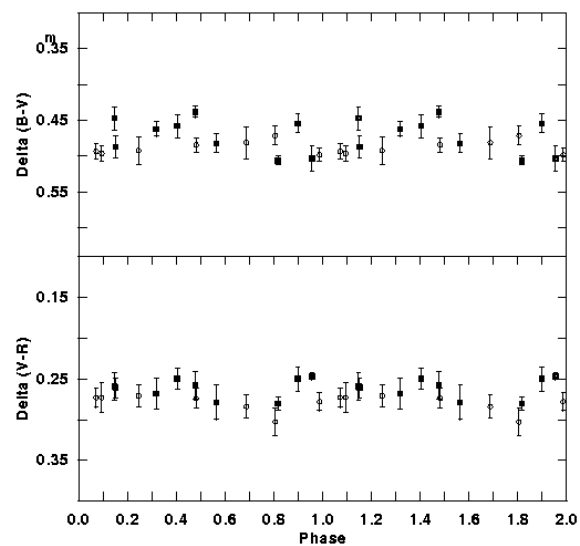


Figure 2. The $B - V$ and $V - R$ colour curves obtained in 2000 of FK Com

Reference:

Jetsu, L., Pelt, J. and Tuominen, I., 1993, *A&A*, **278**, 449