

COMMISSION 27 OF THE I. A. U.  
 INFORMATION BULLETIN ON VARIABLE STARS  
 Number 1587

Konkoly Observatory  
 Budapest  
 1979 April 24

OBSERVATIONS OF V645 CENTAURI AND YZ CANIS MINORIS

V 645 Cen

The flare star V 645 Cen (R.A.  $14^{\text{h}}26^{\text{m}}42^{\text{s}}$ , declination  $-62^{\circ}29'$  (1950), 11.3 visual magnitude at minimum, spectral type dM5e) was observed at Boyden Observatory on the night of 16/17 April 1975. The 41 cm Nishimura reflector was used with an uncooled EMI 6256A photomultiplier tube and a standard Johnson B filter. One low intensity flare was noted during the monitoring period from  $19^{\text{h}}27^{\text{m}}07^{\text{s}}$  U.T. on 16 April to  $03^{\text{h}}42^{\text{m}}15^{\text{s}}$  U.T. on 17 April. (There was an interruption in the observations from  $21^{\text{h}}54^{\text{m}}00^{\text{s}}$  U.T. to  $22^{\text{h}}01^{\text{m}}30^{\text{s}}$  U.T. on 16 April.)

YZ CMi

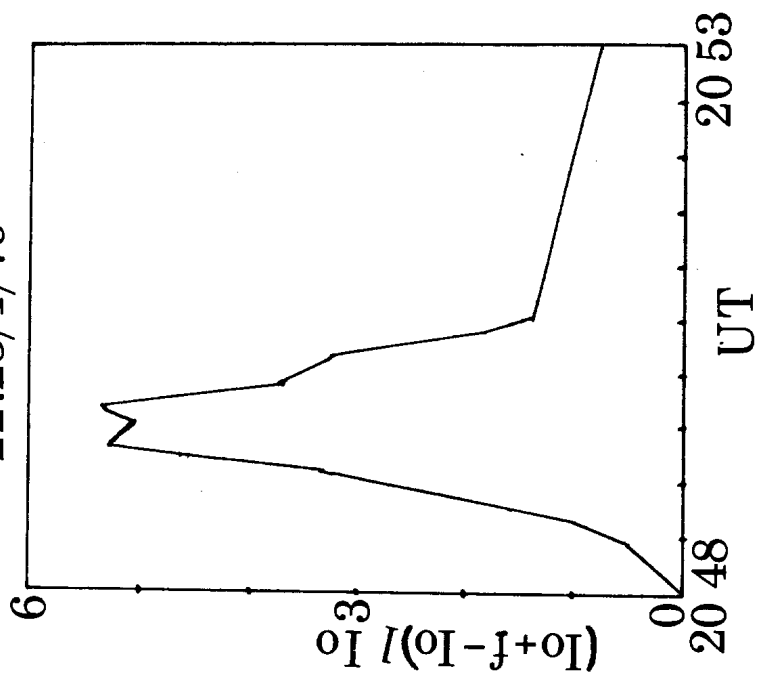
The flare star YZ CMi (R.A.  $07^{\text{h}}42^{\text{m}}06^{\text{s}}$ , declination  $+3^{\circ}41'$  (1950), 11.6 visual magnitude at minimum, spectral type dM4.5e) was monitored at Boyden Observatory during the night of 22/23 January 1976. Weather conditions were such that worthwhile observations were only possible between  $19^{\text{h}}21^{\text{m}}00^{\text{s}}$  and  $23^{\text{h}}00^{\text{m}}00^{\text{s}}$  U.T. One intense flare was recorded during the period.

Flare star	Flare maximum Universal Time	$\frac{I_{\text{of}} - I_{\text{o}}}{I_{\text{o}}}$	$\sigma$ (mag) $= -2.5 \log \frac{ s }{I_{\text{o}}}$	$(m_{\text{lim}} - m_{\text{o}})$ $= \sigma$ (mag) - 1.19
V 645 Cen	$02^{\text{h}}53^{\text{m}}15^{\text{s}}$	1.08	2.59	-
YZ CMi	$20^{\text{h}}49^{\text{m}}30^{\text{s}}$	5.14	2.43	1.24

We are greatly indebted to Prof. F.D.I. Hodgson, the Director of the Institute of Groundwater studies at the university, for access to his department's Hewlett Packard Model 9825 microcomputer and digitizer for the reduction of our data.

A.H. JARRETT and J. VAN ROOYEN  
 Boyden Observatory, Astronomy Department  
 University of the Orange Free State  
 Bloemfontein, Republic of South Africa

YZ Cmi  
22.23/1/76



V645 Cen  
16.17/4/75

