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SOME INTENSE FLARES OF UV CETI

Recent perusal of flare star records at Boyden observatory revealed three intense outbursts from UV Ceti (R.A.=01^h36^m4, declination= -18°13' (1950), visual magnitude 12,9 at minimum, spectral type dM5,5e) hitherto unreported.

The 41 cm Nishimura reflector was used for these observations, fitted with a Johnson B filter. The detector was an uncooled EMI 6256A photomultiplier tube.

The flare of $\frac{I_{O+f}-I_O}{I_O} > 8,48$ during the observational run on the night of 14 - 15 September was confirmed visually in the 10 cm finder. Reductions from the photometer records were made using a Hewlett Packard Model 9825 microcomputer and digitizer and other computing facilities on the main campus of the Orange Free State university.

The flares reported showed the flash phase followed by a more gradual decline characteristic of UV Ceti type flare stars.

The following table gives a summary of the observations:

03/04 August 1975: Monitoring Time: 00^h40^m08^s- 03^h00^m27^s U.T.

Flare maximum U.T.	$\frac{I_{O+f}-I_O}{I_O}$	$2.5 \log \left(\frac{I_{O+f}-I_O}{I_O} \right)$	$\sigma \text{ (mag)} = -2.5 \log \frac{ \sigma }{I_O}$	$(m_{\text{lim}} - m_O) = \sigma \text{ (mag)}$ -1.19
01 ^h 48 ^m 15 ^s	2.87	1.15	1.76	0.57

14/15 September 1975: Monitoring Time 20^h55^m07^s-02^h11^m19^sU.T.

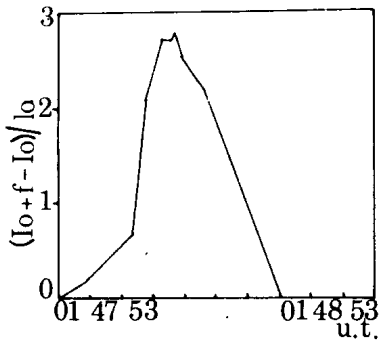
Interruption in observing from: 00^h07^m45^s-00^h12^m45^sU.T.

22 ^h 58 ^m 10 ^s	>8.48	>2.32	2.45	1.26
23 11 32	2.19	0.86	2.45	1.26

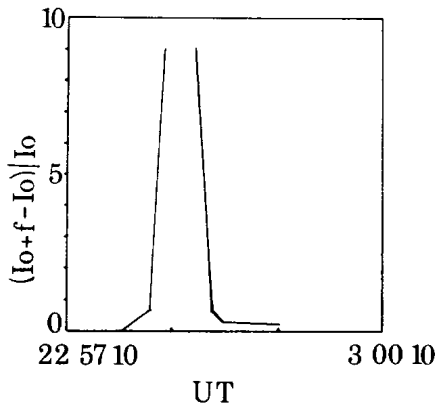
We wish to express our thanks to Prof.F.D.I.Hodgson, the Director of the Institute of Groundwater Studies at the University, for access to his departments Hewlett Packard microcomputer.

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