

COMMISSION 27 OF THE I. A. U.
 INFORMATION BULLETIN ON VARIABLE STARS
 Number 1546

Konkoly Observatory
 Budapest
 1979 February 5

SYNCHRONOUS U, B, V FLARE OBSERVATIONS ON UV Ceti

The flare observations on UV Ceti have been made at Maydanak high-mountain expedition of Tashkent Astronomical Institute. In the period from 1 to 14 of August 13 flares were detected on UV Ceti. Some of them have been observed simultaneously in three colours U, B and V by the 60-cm and 48-cm telescopes. The total effective time of observations was about 26 hours.

The measurements have been made by photon counters. The duration of each measurement was 1.6 second. The precision of synchronization of observations for the instruments was 0.001 second.

The data of observed flares are presented in Table 1. The light curves of two flares, No.6 and No.13 are presented in Figures 1 and 2 for illustration.

Table 1

No	Date of flare up	UT	Total duration of flare (sec)	ΔU	ΔB	ΔV
1	2 8 1978	22 ^h 12 ^m 30 ^s	40	1 ^m 5	0 ^m 4	0 ^m 1
2	4 8 1978	21 39 20	20	2.7	1.0	0.4
3	4 8 1978	21 43 15	110	2.7		0.2
4	4 8 1978	21 46 50	24	1.8		
5	4 8 1978	22 41 08	26	1.9		
6	4 8 1978	22 43 10	50	2.2	0.6	0.1
7	5 8 1978	23 13 40	20	3.5		0.4
8	7 8 1978	21 22 22	60		1.9	0.2
9	7 8 1978	22 55 50	> 180		1.4	
10	9 8 1978	20 54 30	110	3.7	2.4	0.6
11	9 8 1978	20 56 50	>3600	6.5	>4.3	3.2
12	10 8 1978	22 13 36	> 180		3.0	0.7
13	12 8 1978	23 13 50	> 240	3.5	2.0	0.4

N.D. MELIKIAN
 Byurakan Astrophysical
 Observatory

N.N. KILJACHKOV, O.I. STALBOVSKY
 G.P. SIGAL, V.E. SLUTZKY,
 A.I. JELEZNJAKOVA
 Tashkent Astronomical Institute

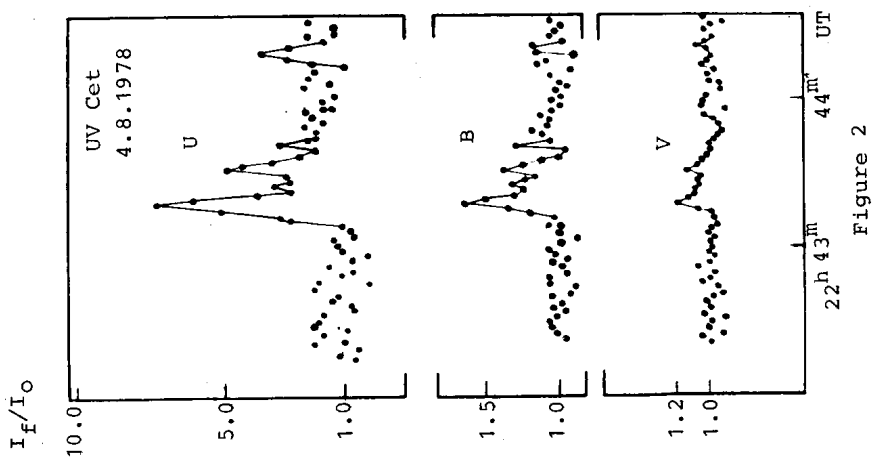


Figure 2

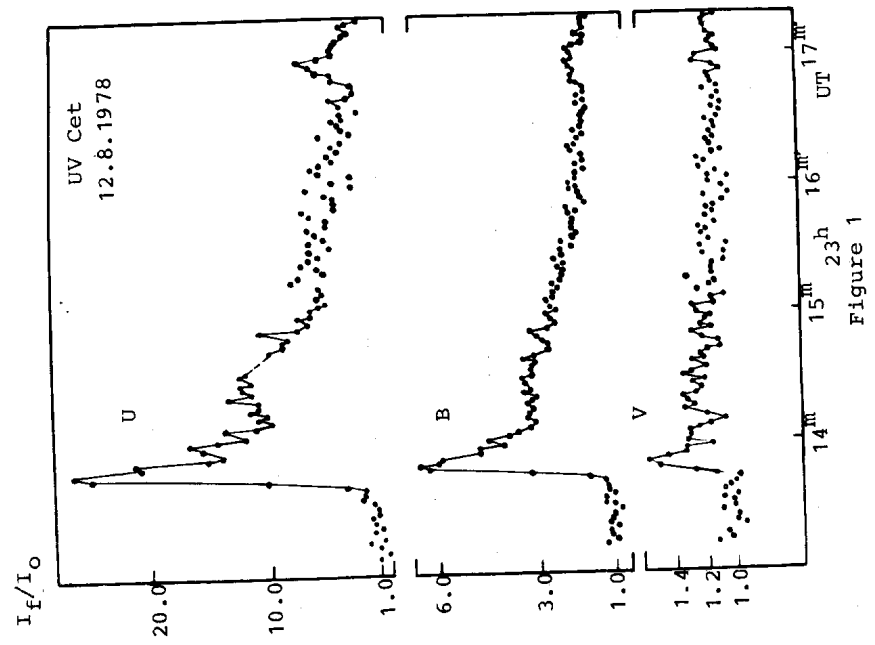


Figure 1