COMMISSION 27 OF THE I. A. U. INFORMATION BULLETIN ON VARIABLE STARS NUMBER 484

Konkoly Observatory Budapest 1970 November 5

FLARES OF UV CETI

During the recent International Co-operative period from the 22nd September to the 9th October, 1970, the flare star UV Ceti was monitored at Boyden Observatory for a total time of 25h19m. The 40 cm aperture Nishimura telescope was used for this work, fitted with a Johnson B.Filter and a solid carbon-dioxide cooled E.M.I.type 6256 photomultiplier tube.

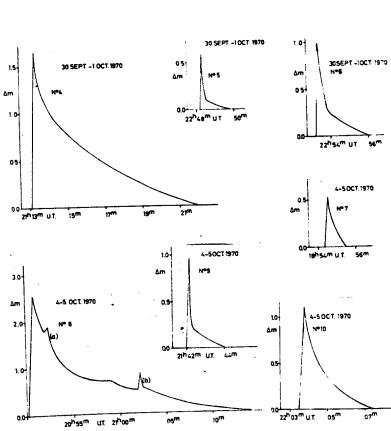
The table gives full details of the monitoring period. It will be seen that fifteen flares were recorded during the period, several of them being classed as major flares, especially Nos.4, 8 and possibly Nos.10 and 11.

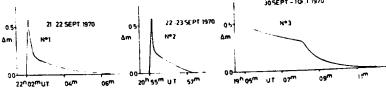
	Table		

Date 1970	U.T.	Total hours	Flare No.	U.T. of flare	Dura- tion	Δm
		per night				
Sept.						
20-21	20h13m-20h40m		e de la companya de l La companya de la co			
	20 58 -21 34	1 h 0 3 m		a a h a a m a	~m.o	0.50
21-22	19 23 -22 41	3 18	1	22h02m0	5 ^m 0	0.58
22-23	19 00 -22 30	3 30	2	20 55.0	2.2	0.57
23-24	20 52 -22 13	1 21				
30-						0.44
Oct.1	18 23 -23 12	4.49	3	19 05.5	6.5	0.44
		Santa Paris	4	21 13-1	8.9	1.53
			5	22 48.2	1.6	0.59
Oct.			6	22 53.3	2.7	0.99
1-2	18 17 -22 45	4 28				
4-5	18 07 -22 55	4 48	7	18 54.4	1.2	0.53
			8	20 50 1	23.9	2.56
			8a	_	er e 😁 😁	1.90
			8 b			0.88
		· · · · -	9	21 42.0	2.0	0.96
			10	22 03.5	4.0	1.10
5-6	18 38 -20 40	2 02	11	18 50.6	3.7	1.03
3-0	,5 55 20 20	r i n pilot i	12	19 05.5	5.5	0.88
			12a			0.52
- 1. f	Matal	oskirom.				

(Mean amplitude of flare activity

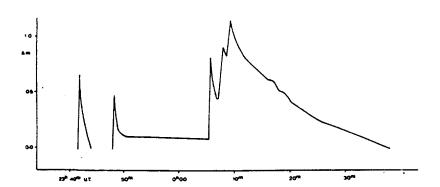
1.00)

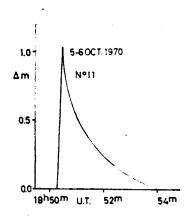


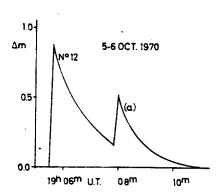


MAJCR FLARE of UV Cot i

5-6 October 1967







Flare No.8 is particularly interesting in that it shows characteristics similar to those recorded during previous observations of UV Ceti by Eksteen. It was of an appreciable duration, of the order of 25m. In this connection it is also of interest to compare the profile with that obtained during a major flare of UV Ceti during the 5th-6th October 1967 (previously not published).

		U.T. of Dura- flare tion	Δm
Plane of K-6th	October 1967.	실레이팅과 이번 회사 기계들의	0.86
riare of 5-oth	October 13011	23 44.0 25.0	0.48 0.81
			0.90

The level of activity during the monitored period was quite high; the mean amplitude being approximately $\Delta m = 1$.

It should be pointed out that with respect to flare No.3 the maximum is not shown as it was missed during recording of the background sky intensity - hence the values for duration and Δm should be taken with some reservation in this case.

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Ref: J.P. Eksteen, 1968, MNASSA. Vol XXVII, page 145.