

COMMISSION 27 OF THE I. A. U.
INFORMATION BULLETIN ON VARIABLE STARS
NUMBER 399

Konkoly Observatory
Budapest
1969 November 4

EV LAC

A continual photoelectric monitoring of the flare star EV Lac was done with the 91-cm reflector of the Okayama Station in the period from 2 to 19 September 1969. During the 33 hours of monitoring in the magnitude B, 12 flares were observed as shown in the following table. By the observations, the sum of the light of EV Lac and its optical companion was measured. The values of m_f (B), P and σ in the table are the results corrected for this companion. The magnitude difference between EV Lac and the companion was assumed to be 0.91 magnitudes according to the Information Bulletin No.370.

The definition of m_f (B), P and σ are as follows:

$$m_f = m_0 - 2.5 \log I_{0+f}/I_0$$

$$P = (I_{0+f} - I_0)/I_0 \cdot dt,$$

$$\sigma (\text{mag}) = 2.5 \log (I_0 + \sigma)/I_0.$$

Tokyo Astronomical Observatory
30 October 1969.

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Flares of EV Lac observed at Okayama,
2 to 19 September, 1969.

Date 1969 Sept.	Time of monitoring(UT)	Time of max.(UT)	m_f (B)	P	Duration	σ mag	
2 ^d	13 ^h 34 ^m -13 ^h 56 ^m					0.06	
4	12 01 -13 00					0.04	
	13 17 -14 04					0.07	
5	15 19 -15 54					cloudy	
	16 36 -16 54					0.07	
	17 08 -18 27	18 ^h 21 ^m 0	mag 0.28	min 0.36	2.1 ^{min}	0.07	
6	13 13 -14 10					0.07	
	14 31 -14 49					0.07	
7	13 14 -13 33					cloudy	
8	11 57 -12 30					0.07	
11	12 43 -13 00					0.07	
12	10 23 -18 50	17 31.8	0.28	0.24	2.0	0.04	
15	12 10 -17 00	13 45.8	>0.9	>0.8	>2.6	cloudy	
		15 50.6	>0.9	>1.5	>3.4	cloudy	
16	10 27 -11 02					0.08	
17	11 52 -12 00					0.04	
	12 07 -12 20					0.04	
	12 54 -13 17					0.04	
	14 01 -14 16	14 09.5	0.15	0.07	0.9	0.04	
	14 54 -15 10					0.04	
	15 13 -15 34					0.04	
	15 50 -16 05					0.04	
	16 17 -16 28					0.04	
	16 35 -19 15	18 14.1	0.28	0.24	3.7	0.04	
		18 24.3	0.20	0.07	0.8	0.04	
18	10 23 -15 30	11 26.1	0.08	0.04	2.5	0.03	
		11 26.8	0.13	0.03		0.03	
		12 46.9	0.10	0.19		3.3	0.03
		15 12.2	0.28	0.09		1.3	0.03
19	10 40 -14 12	12 20.5	0.33	0.23	4.2	0.04	