

COMMISSION 27 OF THE I. A. U.  
INFORMATION BULLETIN ON VARIABLE STARS  
NUMBER 521

Konkoly Observatory  
Budapest  
1971 February 22

PHOTOELECTRIC OBSERVATIONS OF THE FLARE STAR YZ CMi  
DURING THE 1971 JANUARY 15 - FEBRUARY 2 INTERNATIONAL PATROL

The photoelectric observations of the flare star YZ CMi were carried out in the period of January 15 - February 2, 1971. The photometer attached to the 64-cm meniscus telescope and equipped with a blue BG-12 filter and EMI 6256 photomultiplier was used. The total time of continuous monitoring was 52.5 hours.

The moments of the beginning and the end of continuous monitoring are given in Table I. Table II contains the characteristics of the flares observed: time of maximum, durations before and after the maximum, relative errors of observation, integrated intensities and air masses. We follow the notations proposed by Oskanian (IBVS No.488). The light curves of flares are presented on figures.

P.F. CHUGAINOV  
N.I. SHAKHOVSKAYA  
Crimean Astrophysical Observatory

G.N. ALEKSEEV  
Rostov State University

Table I

Date	Coverage (UT)
Jan.15	17 07-17 32, 17 48-17 57, 18 00-18 57, 19 13-19 37, 19 38-19 49, 19 51-20 17, 20 20-21 04, 21 06-22 04, 22 06-22 31, 22 32-22 41, 22 59-23 30, 23 32-24 00
Jan.16	00 00-00 07, 00 10-00 27, 00 28-02 00, (02 03-03 00), 17 26-19 37, 19 39-20 08, 20 10-20 44, 20 46-21 24, 21 26-22 30
Jan.18	18 47-19 52, 19 53-22 50, 22 54-23 27, 23 29-23 32,
Jan.20	22 17-22 56, 23 01-24 00
Jan.21	00 00-00 09, 19 08-19 19, 19 21-19 59, 20 00-20 32, 20 33-23 21, 23 23-24 00
Jan.22	00 00-01 34, 01 39-01 46, 01 47-01 53, 21 15-21 52, 22 21-23 38
Jan.25	18 47-19 56, 20 00-20 48, 20 49-21 34, 21 37-22 43, 22 47-23 47, 23 48-24 00
Jan.26	00 00-01 34
Jan.27	(16 16-16 26, 16 29-18 21), 18 22-18 43, 18 44-19 19, 19 25-19 51, 19 53-19 59, 20 01-20 17, 20 18-20 53, 20 58-21 02, 21 10-23 07, 23 09-24 00
Jan.28	00 00-01 14
Jan.30	17 45-17 47, 17 49-18 31, 18 32-19 01, 19 04-19 18, 19 19-20 43, 20 45-24 00
Jan.31	00 00-01 30, 18 23-18 41, 18 45-20 37, 20 43-22 31, 22 36-23 40, 23 44-24 00
Feb.1	00 00-00 08

Table II

Date	UT <sup>-</sup> <sub>max</sub>	t <sub>b</sub>	t <sub>a</sub>	X <sub>fm</sub> /X <sub>s</sub>	σ/X <sub>s</sub>	P	F(z)	Remarks
1971		minutes				minutes		
Jan. 18	22 03.1	0.2	2.7	0.37	0.042	0.26	1.34	
21	22 50.2	0.8	4.1	0.14	0.037	0.32	1.42	Possible flare
21	23 06.0	0.7	14	0.30	0.037	0.80	1.46	
27	21 19.1	0.3	7.0	0.21	0.030	0.60	1.33	
27	21 46.5	0.2	2.8	0.13	0.042	0.13	1.35	Possible flare
27	22 36.8	0.1	0.3	0.17	0.042	0.03	1.44	
27	23 13.8	0.2	0.3	0.27	0.036	0.06	1.57	
30	23 36.4	0.2	0.5	0.26	0.045	0.09	1.74	
31	00 44.6	0.3	7.3	3.03	0.054	3.39	2.61	
31	20 18.8	0.3	2.4	0.12	0.041	0.16	1.34	Possible flare



