

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

Number 2338

Konkoly Observatory
 Budapest
 25 May 1983
 HU ISSN 0374-0676

FLARE STARS IN PLEIADES

Continuous photographic observations of the flare stars in the Pleiades region have been carried out at the Bulgarian National Astronomical Observatory during August-December 1982.

The photographic patrol has been made with the 20in./28in. Schmidt telescope at Rozhen in U-light (ORWO ZU21 plates with UG2 filter).

Three new flare stars and four flare-events of known flare stars have been discovered for 36^h30^m total effective time of observations.

The data of observed flares are given in the Table.

Table I

Rozhen No.	R.A.1900	D.1900	m_U min	Δm_U	Date	Identification
R 19	3 ^h 37 ^m .0	23 ^o 46'	18 ^m .4	3 ^m .6	29. 9.1982	TC 93
R 20	39.2	24 05	20:	5.7	10.11.1982	
R 21	39.5	23 19	21:	4.3	21.10.1982	
R 22	40.7	22 01	20	6.4	27.10.1982	
R 7	41.5	22 02	17.3	1.3	13.11.1982	TC 275
R 23	43.3	23 21	20:	5.0	29. 9.1982	TC 363
R 9	43.7	24 01	16.9	0.8	9.11.1982	TC 377

The Rozhen designations for the Pleiades flare stars according to M. Tsvetkov et al. (I.B.V.S. No. 2224) have been continued.

The identification of the flare stars was given by Haro et. al. (Bol. Inst. Tonantzintla, vol.3, No. 1, 1982).

M.K. TSVETKOV
 KATYA P. TSVETKOVA
 ASSYA G. TSVETKOVA

Department of Astronomy with
 National Astronomical Observatory,
 Bulgarian Academy of Sciences,
 Sofia-1184, Lenin Str. 72.
 Bulgaria