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FLARE STAR OBSERVATIONS IN THE PLEIADES REGION

We have continued the survey for flare stars in the region at the Pleiades cluster in 1977.

The observations have been carried out with the 60/90/180 cm Schmidt telescope of the Konkoly Observatory. The method of observations was the common one of multiple and equal exposures of 10 minutes in U-band.

The effective coverage of these observations was 26.7 hours. Four new flare stars have been discovered and eight of the already known flare stars showed flare repetitions.

Table I gives some data of the discovered new flare stars: the first column gives the serial number; column two and three the approximate coordinates for 1900.0; column four the approximate minimum brightness in U-band; column five the observed amplitude of the flare-up in U-band; column six the date of the flare-up.

Table I

Designation	RA	D	m_U	Δm_U	Date
1*	$3^h 33^m.4$	$23^{\circ} 11'$	$16^m.8$	$2^m.5$	05.11.1977
2	36.5	22 16	18.6	2.1	12.12.1977
3	39.1	24 08	17.6	2.0	07.11.1977
4	44.1	22 10	18.9	3.5	11.12.1977

*The flare star No.1 in the Table I is probably identical with the star No.308 of the Byurakan list.

The data for the registered flare repetitions of the already known flare stars are presented in Table II. The Byurakan designation was used and the Hertzsprung numbers are also given.

Table II

Designation		RA	D	m_{U}	Δm_{U}	Date
No.	H II					
3		$3^{\text{h}}36^{\text{m}}7$	$23^{\circ}41'$	$18^{\text{m}}6$	$2^{\text{m}}5$	07.11.1977
55	2411	43.7	24 01	16.8	1.8	08.11.1977
68	134	37.7	23 55	16.8	0.7	07.11.1977
107	2208	43.3	24 15	17.0	1.5	11.12.1977
109	2927	45.1	24 26	16.2	2.8	08.10.1977
157	2144	43.1	23 26	17.6	2.1	07.11.1977
233		46.2	25 50	18.5	3.7	07.11.1977
334	1280	41.1	23 51	16.8	1.5	07.11.1977
					4.5	07.11.1977

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