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FLARE STAR OBSERVATIONS IN THE PLEIADES-REGION

Three new flare stars and five outburst repetitions of the Pleiades-region flare stars were discovered during 14<sup>h</sup>10<sup>m</sup> of effective observational time on the plates obtained with 60/90/180 cm Schmidt telescope at Konkoly Observatory in the period from 1975 to 1978.

The observations were made on Kodak 103 aO emulsion using Schott UG 2 or UG 1 filter. In most cases we have 6 exposures of 10 min on each plate.

In Table I the first column gives the serial number for the new flare stars found, columns two and three - coordinates for 1900.0, in the fourth column we give the approximate photographic magnitude at minimum light, column five presents the observed amplitude of the flare in U-band and column six the date of the flare-up.

Table I

No	RA	D	$m_{pg}$	$\Delta m_u$	Date of flare-up
1	3 <sup>h</sup> 38 <sup>m</sup> 5	25 <sup>o</sup> 25'	19.0	3.2	12.12.1977
2	41.8	24 35	20.3	4.9	30.12.1975
3	50.7	24 48	15.5	1.6	31.10.1975

The data for the observed flare-ups of the known flare stars is presented in the Table 2. We have used the Byurakan designation and the Hertzsprung numbers.

Table II

No	HII	RA	D	$m_{pg}$	$\Delta m_u$	Date of flare-up
21	1653	3 <sup>h</sup> 42 <sup>m</sup> 0	24 <sup>o</sup> 25'	14.6	1.6	31.10.1975
72		38.3	23 18	18.4	3.1	30.10.1975
103		36.9	23 08	16.2	0.7	07.11.1977
271	1485	41.9	24 35	15.2	0.6	08.11.1977
478		44.4	23 01	18.7	5.4	04.03.1978

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