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NEW FLARE STARS IN THE PRAESEPE-REGION

In the course of searching for flare stars in the Praesepe-Region 20 plates have been obtained by the method of multiple exposures, with the 60/90/180 cm Schmidt-telescope at Konkoly Observatory between 1977 November and 1978 April.

We used Kodak 103a0 plates with 2 mm Schott UG 2 filter, each exposition was 10 min.

Table I gives the data of three new flare stars, which were discovered during 19.3 hours of effective coverage:

Table I

Designation	RA	D	$m_{pg}$	$\Delta m_u$	Date of flare-up
K6	8 <sup>h</sup> 30 <sup>m</sup> 7	19 <sup>o</sup> 56'	18 <sup>m</sup> 8	3 <sup>m</sup> 8	07.11.1977
K7	33.0	19 38	17.8	3.1	03.03.1978
K8	42.3	20 28	16.7	1.5	03.03.1978

There have also been registered two repeated flare-ups on the stars No T4 and No T12 of Haro's list. Some data of these outbursts are given in Table II.

Table II

Designation	RA	D	$m_{pg}$	$\Delta m_u$	Date of flare up
T4	8 <sup>h</sup> 34 <sup>m</sup> 8	18 <sup>o</sup> 48'	20 <sup>m</sup> 0	5 <sup>m</sup> 4	03.03.1978
				6.4	04.03.1978
T12	8 25.9	19 45	13.0	2.1	04.03.1978
				2.7	31.03.1978

The tables give the following data:

Column 1: the serial number for the flare stars, found in the Praesepe region at Konkoly and Tonantzintla Observatories, respectively.

Column 2 and 3: The approximate coordinates for 1900.0

Column 4: the approximate photographic magnitudes at minimum light

Column 5: the observed amplitude of the flare-up in U-band.  
Column 6: the date of the flare-up.

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