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NEW FLARE STARS IN THE Mon I ASSOCIATION

A search for flare stars in the region of Mon I association was carried out by one of the authors (L.R.) during the years 1974-1976 and 1981 in the Asiago Astrophysical Observatory of the University of Padova, with the 67/90/192 cm Schmidt telescope. The exposures were made on Kodak 103a-0 plates without filter, using the chain method. During 55 hours of effective time 150 plates were obtained, each with five star images. The exposure time was 5 minutes for each image.

As a result of the examination of these plates, which cover a region of about 25 square degrees centered at the cluster NGC 2264, 29 new flare stars were discovered.

The new flare stars are listed in Table I where the following data are given in the consecutive columns: serial number, name of the star, equatorial coordinates, magnitude at minimum, amplitude of the flare-up and date of the flare.

The discussion of the data will appear in the publications of the Byurakan Observatory.

Table I
 New flare stars in the region of Mon I

No.	Star name	α 1900	δ 1900	m_{pg}	A_{pg}	Date
1		6 ^h 28 ^m .2	10°06'.7	16 ^m .6	1 ^m .7	Jan. 19 1974
2		29.2	10 32 .3	16.6	0.6	Dec. 16 1974
3		30.0	9 32 .8	17.0	0.7	Feb. 5 1975
4		32.0	11 19 .5	18.5	3.5	Feb. 6 1974
5		32.5	8 18 .6	16.3	1.0	Oct. 28 1973
6		32.5	9 39 .6	16.4	0.6	Apr. 3 1976
7		33.2	9 16 .6	16.6	1.3	Apr. 3 1976
8		33.5	8 26 .6	16.8	1.0	Dec. 9 1974
9		33.8	9 23 .4	16.7	0.7	Jan. 22 1976
10		33.8	9 25 .6	15.6	0.9	Sep. 9 1974
					0.6	Dec. 18 1974

Table I (cont.)

No.	Star name	α 1900	δ 1900	m_{pg}	A_{pg}	Date
11		6 ^h 34 ^m 0	8 ^o 27' .7	17 ^m .0	1 ^m .0	Dec. 9 1974
12		34.1	10 25 .7	19.0	4.2	Nov.17-18 1974
13		34.2	10 27 .7	16.7	0.5	Feb.27 1976
14		34.3	9 16 .2	20.3	4.5	Jan.19 1974
15		34.3	9 33 .7	17.8	2.0	Dec. 6 1981
16		34.8	10 05 .6	16.7	1.0	Oct.31 1973
17		35.1	8 57 .0	17.2	0.6	Feb. 9 1975
18	V 418	35.3	9 27 .8	18.2	2.7	Oct.31 1973
19		35.8	9 41 .8	19.2	2.7	Dec.15 1974
20		36.0	9 57 .8	18.9	2.3	Dec.21 1974
21		36.1	9 54 .8	18.1	1.8	Nov.18 1974
22		36.3	9 38 .8	17.8	1.4	Jan.10 1975
23		37.3	9 17 .8	16.7	0.7	Dec. 6 1974
24		37.3	10 28 .6	17.0	0.6	Feb. 5 1975
25		37.9	9 40 .9	17.3	1.0	Feb. 8 1975
26		38.3	9 19 .0	17.2	1.0	Feb. 5 1975
27		38.7	8 20 .0	17.0	0.5	Dec. 9 1974
28		42.2	9 11 .3	16.1	0.7	Dec. 11 1975
29		45.3	10 31 .5	16.1	1.1	Feb. 24 1976

L. ROSINO
Asiago Astrophysical
Observatory, Padova
Italy

E.S. PARSAMIAN and H.S. CHAVUSHIAN
Byurakan Astrophysical Observatory
Byurakan, Armenia, U.S.S.R.