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FLARE STARS IN ORION

Twenty-two new flare stars (Table I) and 8 repeated flares of known flare stars (Table II) had been revealed, while continuing the photographic observations in the Orion nebula region with the Abastumani Observatory 70-cm Meniscus-type telescope, using the multiple exposure method.

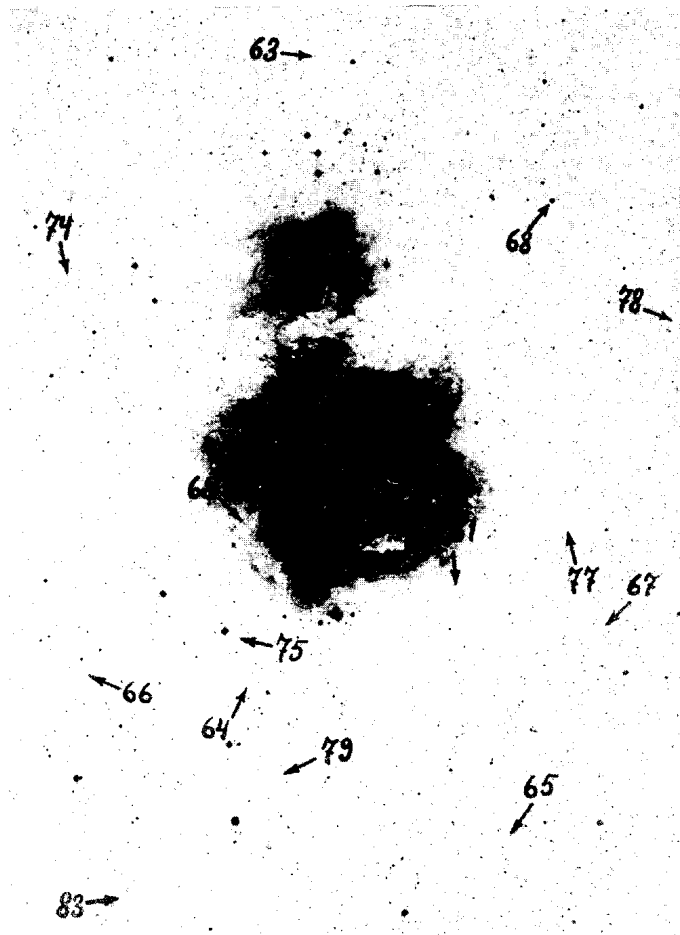
Table I and II give the data of these flares. We are continuing the numeration of flare stars.

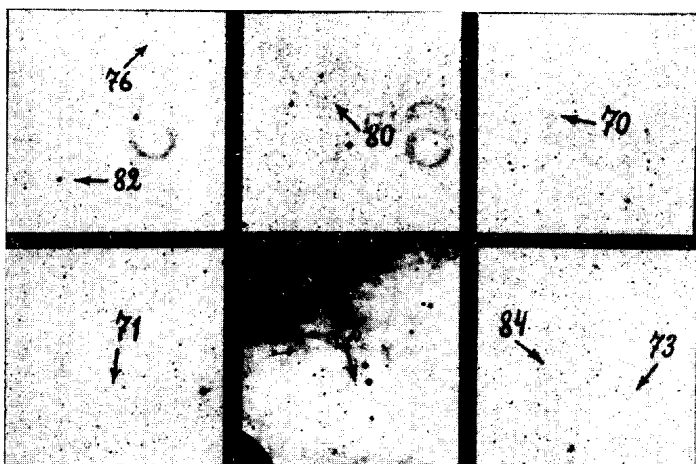
Table I

No	α 1900	δ 1900	m_{pg}	Δm_{pg}	Date
63	5 ^h 30 ^m 28 ^s	-4 ^o 09'.4	16 ^m .7	1 ^m .0	27.10.1979
64	31 23	-6 18.6	18.8	2.6	28.10
65	27 45	-6 49.6	16.9	1.1	28.10
66	33 37	-6 16.3	20.4	4.4	28.10
67	26 25	-6 06.5	17.2	1.0	28.10
68	27 08	-4 39.0	21.0	5.4	29.10
69	31 26	-5 45.4	15.2	1.3	16.11
70	23 00	-4 05.6	17.5	1.4	17.11
71	35 02	-6 36.0	16.9	0.7	17.11
72	29 44	-5 47.0	17.6	3.3	17.11
73	23 42	-7 08.5	18.7	1.8	17.11
74	33 53	-4 54.5	17.0	0.6	18.11
75	31 32	-6 08.9	19.4	3.2	25.11
76	28 28	-3 16.5	19.0	3.6	26.11
77	26 57	-5 46.5	17.1	1.2	26.11
78	25 28	-5 03.7	17.7	0.9	27.11
79	30 55	-6 37.2	18.2	3.0	15.12
80	34 46	-3 28.4	15.6	1.6	15.12
81	28 30	-5 58.6	19.1	3.5	15.01.1980
82	29 31	-3 44.8	19.2	3.8	15.01
83	33 08	-7 02.3	19.0	4.3	16.01
84	24 57	-7 03.0	18.5	1.7	16.01

Table II

No	α_{1900}	δ_{1900}	m_{pg}	Δm_{pg}	Date	Ident.
1	5 ^h 30 ^m 31 ^s	-5° 00'.0	17 ^m .0	1 ^m .1	29.10.1979	Ab 49
2	37 52	-5 52.6	16.3	1.1	17.11	T 254
3	30 44	-7 20.8	15.2	2.5	17.11	T 228
4	30 10	-6 34.1	16.0	1.3	19.11	T 154
5	28 28	-5 36.7	15.5	0.8	25.11	T 194
6	27 32	-4 03.7	17.9	1.8	26.11	T 8
7	27 32	-4 03.7	17.9	1.8	27.11	T 8
8	32 10	-4 50.9	19.1	3.1	16.01, 1980	A 47





Out of all registered flares Nos 79, 80, 83 are slow ones, the brightness of which had increased during more than 40 minutes.

In Table II the flare stars identified with Tonantzintla (1), Asiago (2) and Abastumani (3) lists are denoted by T, A and Ab, respectively.

Outbursts numbered 6 and 7 of the star T8 took place within the time interval $3^h 35^m$. These outbursts are presumably the result of the same flash-activity cycle.

Finding charts are given.

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References:

1. Haro, G., Chavira, F., 1969, Bol.Obs. Tonantzintla y Tacubaya, 5, No.32, 59
2. Rosino, L., Pigatto, L., 1969, Contr.Asiago Obs., No.231
3. Natsvlshvili, R.Sh., Melikian, N.D., 1980, I.B.V.S. No.1726