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FLARE STARS IN ORION

On purpose to study flare stars statistically we have continued the photographic observations in the Orion Nebula region with the 70/100/210-cm Meniscus-type telescope of the Abastumani Observatory. 31 new flare stars (Table I) and 18 repeated flares of the known flare stars (Table II) were found around the Trapeze system.

Table I

No	RA(1900)	D(1900)	m_{pg}	Δm_{pg}	Date
101	5 ^h 31 ^m 55 ^s	-6° 00.5	16.2	1.1	11.10.1981
102	5 31 32	-7 19.8	19.3	3.4	11.10.1981
103	5 23 44	-6 08.1	16.7	1.2	11.10.1981
104	5 28 47	-6 52.8	15.4	1.5	11.10.1981
105	5 33 14	-6 56.7	15.3	1.0	22.10.1981
106	5 29 41	-4 06.1	16.6	1.0	26.10.1981
107	5 29 52	-7 40.2	16.4	1.2	27.10.1981
108	5 29 08	-5 40.4	16.0	2.3	28.10.1981
109	5 32 40	-6 59.7	18.9	3.0	28.10.1981
110	5 31 43	-5 47.8	17.3	1.7	28.10.1981
111	5 28 39	-6 28.4	18.6	2.2	29.10.1981
112	5 25 44	-5 30.3	15.5	1.5	30.10.1981
113	5 25 40	-4 42.2	20.4	5.0	30.10.1981
114	5 31 09	-4 54.8	17.5	2.3	31.10.1981
115	5 28 37	-6 08.3	16.7	1.6	06.11.1981
116	5 30 54	-6 49.1	19.6	4.0	07.11.1981
117	5 27 06	-3 44.8	17.4	1.8	25.11.1981
118	5 32 18	-3 35.1	15.6	1.6	26.11.1981
119	5 32 02	-6 23.4	18.6	4.5	27.01.1982
120	5 31 44	-6 18.1	19.0	3.8	27.01.1982
121	5 28 27	-7 06.1	16.5	1.7	27.01.1982
122	5 32 30	-6 07.0	15.8	1.5	27.01.1982
123	5 25 46	-4 58.4	19.8	3.6	27.01.1982
124	5 27 16	-4 47.5	>21.0	>4.8	29.01.1982
125	5 30 07	-6 46.2	17.7	1.1	29.01.1982
126	5 30 24	-6 09.1	16.9	1.8	18.02.1982
127	5 28 18	-5 59.2	19.2	2.9	24.02.1982
128	5 38 42	-6 17.3	15.9	1.5	24.02.1982
129	5 28 58	-5 23.8	16.5	1.0	24.02.1982
130	5 28 52	-4 43.5	17.3	1.4	25.02.1982
131	5 30 52	-5 17.1	16.6	1.5	25.02.1982

Table II

No	RA(1900)	D(1900)	m _{pg}	Δ m _{pg}	Date	Ident.
1	5 ^h 28 ^m 47 ^s	-4 ^o 59.9'	18 ^m 3	3 ^m 8	26.09.1981	Ab 46
2	5 30 14	-5 10.7	16.1	2.2	26.09.1981	T 223
3	5 30 10	-6 34.1	16.0	1.2	04.10.1981	T 154
4	5 28 47	-6 52.8	15.4	1.3	24.10.1981	Ab 104
5	5 31 34	-6 30.2	16.9	1.4	26.10.1981	Ab 17
6	5 32 50	-5 33.1	18.7	2.5	28.10.1981	Ab 62
7	5 28 30	-5 58.6	19.1	3.3	28.10.1981	Ab 81
8	5 29 52	-7 40.2	16.4	1.1	29.10.1981	Ab 107
9	5 30 10	-6 34.1	16.0	2.6	30.10.1981	T 154
10	5 31 55	-6 00.5	16.2	1.2	30.10.1981	Ab 101
11	5 31 13	-6 29.2	16.0	1.0	27.01.1982	T 83
12	5 29 39	-6 26.8	18.2	1.9	29.01.1982	T 37
13	5 29 50	-5 06.1	16.7	1.8	12.02.1982	T 40
14	5 30 10	-6 09.3	16.9	3.8	22.02.1982	T 153
15	5 29 33	-5 36.5	16.3	1.4	23.02.1982	B 7*
16	5 30 10	-6 34.1	16.0	1.4	24.02.1982	T 154
17	5 31 54	-5 07.8	17.9	1.7	24.02.1982	T 100
18	5 30 56	-5 20.3	16.5	1.6	24.02.1982	T 72

*see Melikian (1981)

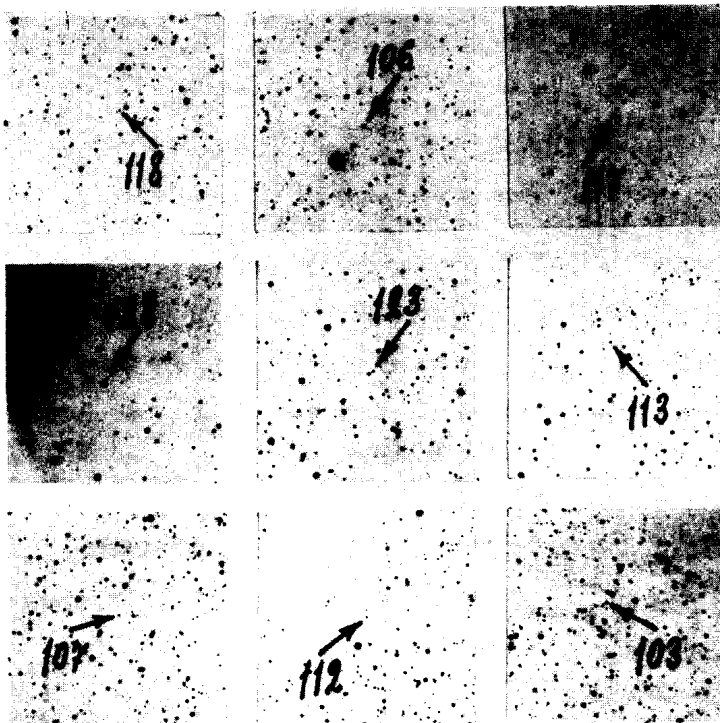


Figure 1

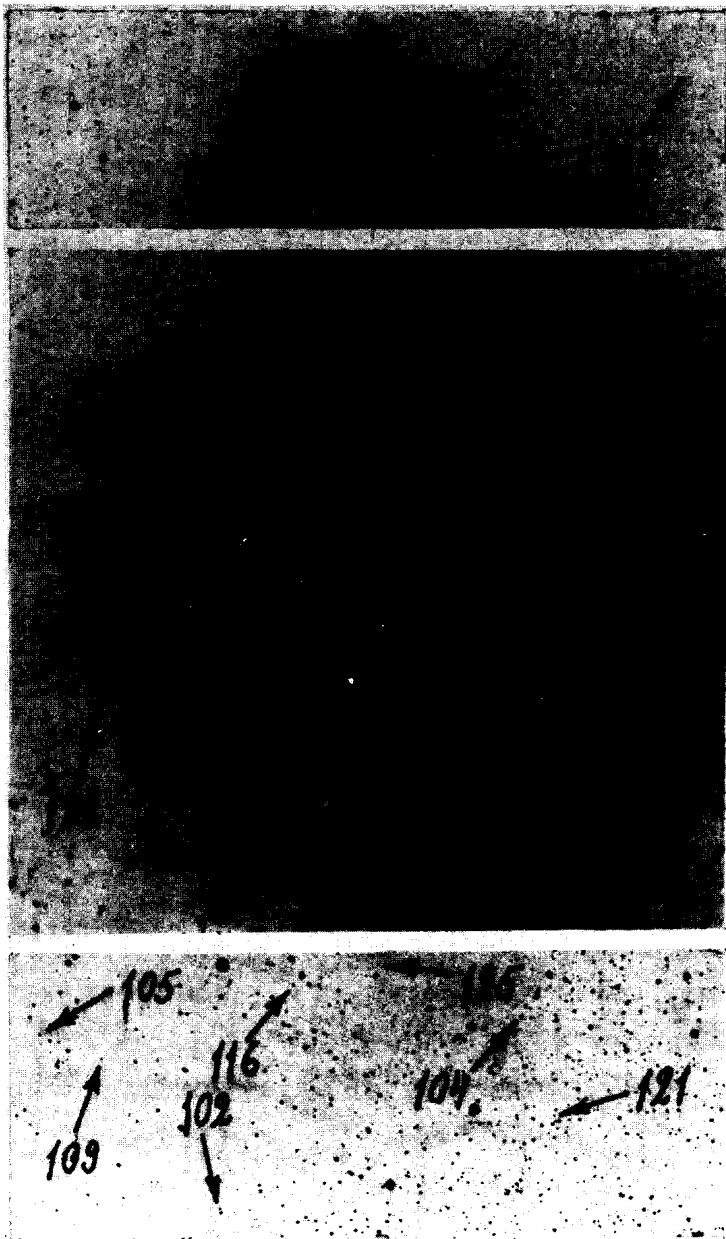


Figure 2

We have continued "Ab" numeration of the Orion's flare stars as we did it before (Natsvlshvili, 1982).

Outbursts of the stars Ab 119 and T 153 are slow ones and their light curves have double-maximum shape.

Finding charts are given.

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References:

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