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NEW FLARE STARS IN THE CYGNUS T1 ASSOCIATION REGION

Seven flare stars were found during the examination of the photographic material of the Cygnus association region. Observations were carried out on the 26" Schmidt telescope of Tonantzintla Observatory (INAOE) during 1974-1982. Total observational time was about 88^h.

In Table 1 data on new flare stars are given. In the first column we continue the Tonantzintla numbering of the Cygnus flare stars (Haro & Chavira, 1973). Columns second to sixth give the approximate coordinates (error in R.A. $\pm 5''$ in Dec. $\pm 9''$), ultraviolet magnitude at minimum, flare amplitude, date of flare respectively.

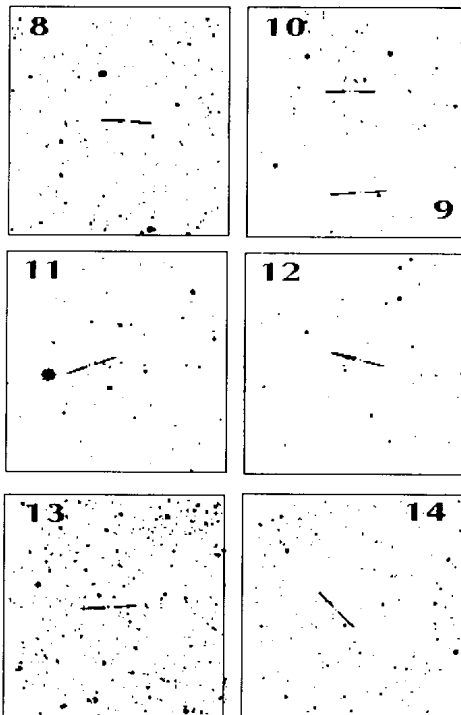


Figure 1. Identification charts for the new flare stars. North is at the top, East is to the right. The size of the chart is 12 \times 12 arcmin.

Table 1
New flare stars in the Cygnus T1 association region

No. Ton	R.A. 1950	Dec. 1950	U mag	ΔU mag	Date of flare
8	20 ^h 46 ^m 8	45°36'0	>18	>3.5	12.10.1974
9	20 53.1	42 47.4	~18	~3.5	09.07.1978
10	20 53.2	42 53.1	16.4	0.8	25.07.1976
11	20 53.4	43 11.0	17.6	2.8	20.08.1974
12	20 56.0	43 39.2	≥ 18	≥ 4.0	07.09.1977
13	20 59.1	42 46.8	17.4	3.7	01.09.1978
14	21 05.3	42 13.5	15.9	1.7	24.08.1974

In Figure 1 the identification maps of newly found flare stars are given.
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Elma S. PARSAMIAN
Byurakan Observatory, Armenia
INAOE, Mexico
Enrique CHAVIRA
Graciela GONZÁLEZ
INAOE, Mexico

Reference:

Haro, G., and Chavira, E., 1973, *Bol. Inst. Tonantzintla*, 1