

UPDATED PERIODS FOR THREE VARIABLE STARS
IN SAGITTARIUS

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ABSTRACT

The previously published period of $0^d364913$ for V3863 Sgr has been confirmed through the examination of nearly 900 plates of Harvard and Nantucket series covering 1924-1933 and 1957-1976 respectively. Two Mira-type stars were also examined. The period of V515 Sgr, for JD 2424000-2443000, should be revised from the published value of 245^d7 to 246^d7 . Only 125 recent plates (1970-1976) of V1655 Sgr were examined; for them the published period of 245^d is still valid.

Finder charts, approximately $20' \times 20'$, are given for each of these stars. South is at the top. Each chart shows the comparison stars used and one Cordoba Durchmusterung object to aid in identification. Magnitudes were determined only for the comparison stars for V3863 Sgr.

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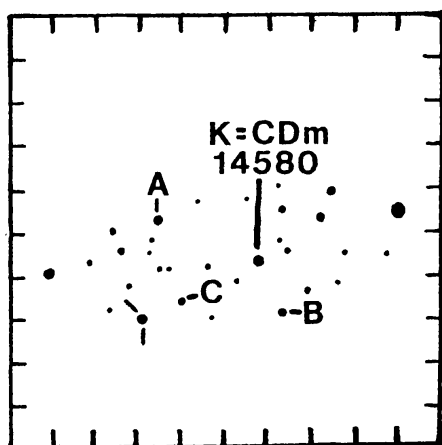


Figure 1.

Figure 1. Finder chart for V3863 Sgr ($11^m7 - 12^m5$ pg). The magnitudes for the comparison stars are: K (CoD $-24^\circ14580$) = 11.6, A = 11.9, B = 12.4, and C = 12.7.

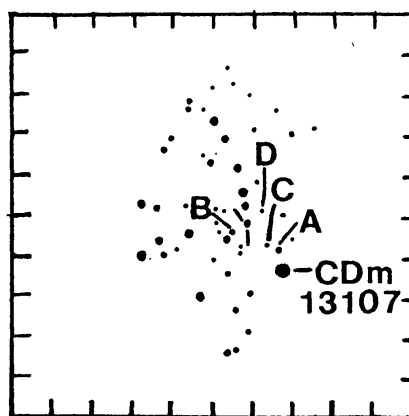


Figure 2.

Figure 2. Finder chart for V515 Sgr (published range 14.3 - (17.0)). The bright star is CoD $-25^\circ13107$.

(South up, 1 division = 1 min. in both figures)

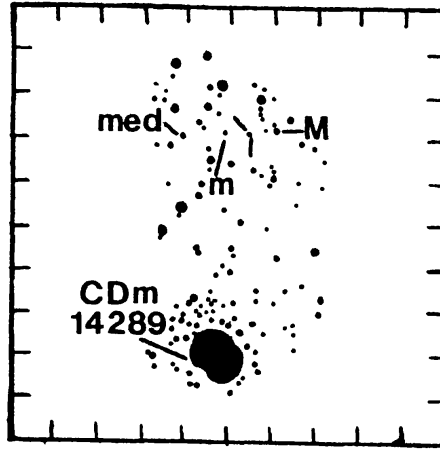


Figure 3. Finder chart for V1655 Sgr (published range 13.9 - (16.2). Only crude estimates were made, rating the variable as maximum (M), intermediate brightness (med), or minimum (m). The star marked M is comparable with the variable at maximum, the one marked m is close to the minimum magnitude. CoD -24°14289 is the globular cluster M28. (South up, 1 division = 1 min.)