

COMMISSION 27 OF THE I. A. U.
INFORMATION BULLETIN ON VARIABLE STARS

Number 2947

Konkoly Observatory
Budapest
21 October 1986
HU ISSN 0374-0676

NEW DATA ON V503 SAGITTARII

The Lowell Observatory investigators commented concerning the newly-discovered proper-motion star G154-12 ($\mu = 0''.32/\text{yr}$, $m_p = 15.2$, color class +4) that "the motion is somewhat uncertain, since the object assumed to be the first-epoch image is 1.5 magnitudes fainter than the second-epoch images." One of us (W.P.B.) has recently noted that the position of this object is nearly identical with that of the apparently unstudied variable V503 Sgr discovered by Shajn in 1933. She found it to be visible on only 6 out of 23 plates, with a magnitude ranging from 13.3 to below 14.6 pg.

During the course of discussion on this object, H.L.G. offered to try to improve the proper-motion determination by obtaining a third-epoch plate with an added 23 year epoch. Comparing a plate of G154-12 taken on September 5, 1986 with the first-epoch plate of June 1931, the brightness of the variable was very similar on the two plates; but the proper motion, under these more comparable conditions, was found to be only about one-third as large. The published admonition that the motion originally found was "somewhat uncertain" is correct; and it was probably due to the fact that the star was 1.5 magnitudes brighter on the second-epoch plates, and being so excessively red, a large portion of the motion found was due to a radial color-magnitude displacement.

On a Burrell Schmidt infrared objective-prism plate the spectral type appears to be M3 or M4.

WILLIAM P. BIDELMAN

Warner & Swasey Observatory
Case Western Reserve University
Cleveland, Ohio 44106 U.S.A.

HENRY L. GICLAS

Lowell Observatory
Mars Hill Rd., 1400 W.
Flagstaff, Arizona 86001 U.S.A.

References :

- Giclas, H. L., Burnham, R., and Thomas, N. G. 1964, Lowell Obs. Bull. 6, 109 (No. 122).
Shajn, P. 1933, N.N.V.S. 4, 119.