COMMISSION 27 OF THE I. A. U.
INFORMATION BULLETIN ON VARIABLE STARS
Number 1035

Konkoly Observatory
Budapest
1975 August 14

CSV 100778: A VARIABLE CARBON STAR PROBABLY IDENTICAL WITH AS 137

We recently noted that the extremely red carbon star Case 610 (No. 606 in the catalog of Stephenson, 1973) is identical with the suspected variable CSV 100778 first detected by Hetzler (1937). Although the positions given in these two sources are not in exact agreement, the identification is confirmed by a comparison of Hetzler's identification chart with objective-prism plates from the files of the Warner and Swasey Observatory. The 1900 coordinates, $\alpha = 6^h\ 48^m.1$, $\delta = -12^\circ\ 02'.6$, closely coincide with those of the Hα-emission-line star AS 137 listed by Merrill and Burwell (1950). On a Kodak 103a-F objective-prism plate taken with the Curtis Schmidt telescope at Cerro Tololo on March 1, 1968, one does not see Hα in emission in CSV 100778. Since there are not other emission-line stars observed near this position, it appears likely that this is a long-period variable in which the hydrogen emission emerges near maximum light. This is consistent with the fact that Merrill and Burwell list AS 137 as being of the 9th visual magnitude when the emission was observed as compared with Stephenson's estimate of V = 12.1 on the above-mentioned objective-prism plate taken on March 1, 1968.

N. SANDULEAK
Warner and Swasey Observatory
Case Western Reserve University
East Cleveland, Ohio, U.S.A.

References:

Hetzler, C. 1937, Astrophys. J., 86, 509.

Merrill, P.W., and Burwell, C. 1950, Astrophys. J., 112, 72.

Stephenson, C.B. 1973, A General Catalog of Cool Carbon Stars, Pub. of the Warner and Swasey Obs., Vol. 1, No. 4.