

COMMISSION 27 OF THE I. A. U.
INFORMATION BULLETIN ON VARIABLE STARS
Number 1646

Konkoly Observatory
Budapest
1979 July 26

TWO VARIABLE STARS IN THE SOUTHERN COALSACK REGION

While obtaining photographic photometry of objects showing H- α emission found by Gómez and Mendoza (1976) in the Coalsack region, we found rather large differences among the magnitudes obtained from different plates for their star 137.

Since the star was not listed by Kukarkin et al. (1972), even though it lies very near to V Mus, we decided to check its variability measuring with the iris photometer several B and V plates obtained by J.C. Muzzio and A. Feinstein at Cerro Tololo Inter-American Observatory, (CTIO) between 1969 and 1975. On ultraviolet plates obtained at the same epochs the star is too faint to be measured, and its ultraviolet magnitude was estimated as fainter than 16.2 mag. We also used plates obtained with the "thin" prism and the Curtis-Schmidt camera at CTIO to derive an approximate spectral type K6-M5.

The chart (size about 15'x 21') shows both V Mus and the new variable together with the stars used to calibrate the photometric data. The western one is the new variable.

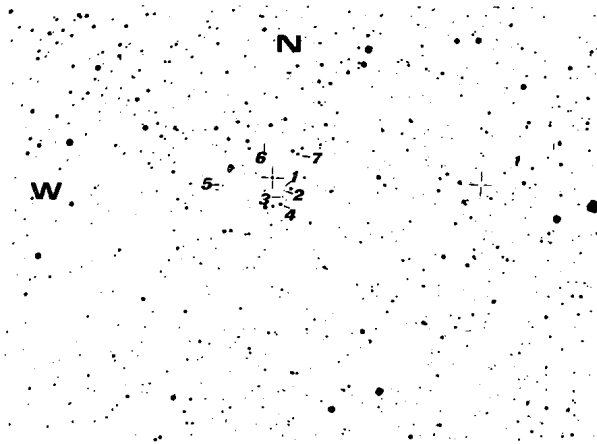
The adopted magnitudes for the comparison stars are:

Star	V	B-V
1	16.17	1.57
2	15.95	1.43
3	15.59	1.08
4	13.95	2.48
5	15.46	1.26
6	15.95	0.94
7	14.60	1.65

These values were derived photographically extrapolating a photoelectric sequence which reached only V=14.50 and B=15.40. They may thus be affected by systematic errors but, nevertheless, they are useful to derive the light changes of the variable stars. The observed magnitudes of the variable stars are:

V values		
Heliocentric J.D.	New Var.	V Mus
2441537.4786	14.68	17.01
2442191.6168	14.66	16.54
2442507.8232	15.05	16.10
2442509.6584	15.06	16.18
2442509.6994	15.17	16.05

B values		
Heliocentric J.D.	New Var.	V Mus
2440419.4155	17.30	17.23
2440694.6592	17.17	15.65
2442191.5723	16.87	18.27
2442507.8523	17.40	17.94
2442508.8076	17.23	17.92
2442509.6883	17.22	17.87



We are grateful to Drs. J.C. Muzzio and A. Feinstein for the use of their plates and, to the former, also for guiding this investigation.

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 Kukarkin, B.V. et al.,: 1972, Special Supplement to the Third
 Edition of the General Catalogue of Variable Stars, Moscow