

COMMISSION 27 OF THE I. A. U.
 INFORMATION BULLETIN ON VARIABLE STARS
 Number 1748

Konkoly Observatory
 Budapest
 1980 February 27

ACCURATE POSITIONS OF SOME R CORONAE BOREALIS VARIABLE STARS

The absolute equatorial coordinates α and δ (1950.0) of a group of 14 R Coronae Borealis variable stars were determined.

The identification of these stars appeared to be difficult due to their quite irregular variations as well as by the fact that the positions given in the General Catalogue of Variable Stars (Kukarkin et al. 1969) are only approximate.

The average positions determined in this work (Table I) were obtained from, at least, two plates of four square degrees each, taken with the Gauthier Astrograph telescope. The x,y rectangular coordinates were measured using a Wild A7 measuring machine with an accuracy of 5 microns whilst the reductions to right ascension and declination were performed with an Olivetti P 6060 Computer applying the least square method. The accuracy

Table I

Star	α (1950.0)	δ "
UW Cen	12 ^h 40 ^m 26. ^s 400 (26 ^s)*	-54 ^o 15'14.55 (16")*
Y Mus	13 02 34.257 (34)	-65 14 43.74 (43)
DY Cen	13 22 27.136 (25)	-53 59 11.13 (11)
Z Cir	13 47 03.135 (02)	-70 13 32.03 (23)
AE Cir	14 40 22.576 (23)	-69 10 57.69 (53)
S Aps	15 04 21.448 (20)	-71 52 17.76 (01)
RT Nor	16 20 02.844 (04)	-59 13 46.60 (54)
RZ Nor	16 28 45.063 (40)	-53 10 47.63 (09'37")
WX CrA	18 05 25.704 (26)	-37 20 16.58 (08")
RS Tel	18 15 07.050 (07)	-46 34 07.64 (02)
V 1860 Sgr	18 18 24.069 (24)	-24 46 38.80 (34)
GU Sgr	18 21 11.761 (12)	-24 17 08.29 (16'46")
MV Sgr	18 41 33.090 (33)	-21 00 22.91 (24 ^m)
RY Sgr	19 13 16.927 (17)	-33 36 42.34 (40)

*Coordinates from the General Catalogue of Variable Stars (Kukarkin et al. 1969) for 1950.0 are given in brackets.

of both coordinates is $\pm 0".1$ (mean square deviation).

On each plate, 8 reference stars were taken using in all cases the Cape Photographic Catalogue for 1950.0 with the exception of stars V 1860 Sgr, GU Sgr, and MV Sgr, for which the Transactions of the Astronomical Observatory of Yale University (1950.0) were used. The positions based on the Cape stars are on the FK3 system for eq. 1950.0.

Identification charts for these stars are available on request from the author.

I am indebted to Dr.L.A. Milone under whose direction this project was conducted.

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Reference:

Kukarkin, B.V., Kholopov, P.N., Efremov, Yu.N., Kukarkina, N.P.,
Kurochkin, N.E., Medvegeva, G.I., Perova, N.B.,
Fedorovich, V.P., and Frolov, M.S., 1969, General
Catalogue of Variable Stars, Moscow State University