

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

Number 3565

Konkoly Observatory  
Budapest  
20 February 1991

HU ISSN 0374 - 0676

**ON SOME MISTAKES IN THE 4th EDITION OF THE GCVS**

This paper appeared as a part of the results obtained when analyzing the publication "Accurate Positions for Variable and Suspected Variable Stars South of  $-67$  Degrees" by López and Girard (1990). This article was kindly provided to us by its authors as a preprint; it contains accurate positions (1950.0) for 950 GCVS stars and 368 NSV stars and certainly is of considerable importance for the GCVS team because of the possibility to check co-ordinates for some stars entering the catalogues we publish.

Here I discuss three points of serious discrepancies with the GCVS or with the NSV catalogue.

1. The co-ordinates for CL Cha from the source in the literature were quoted in the GCVS incorrectly. They should be changed, in accordance with López and Girard, by  $-3^m$  in  $\alpha$ .

2. Co-ordinates for several LMC and SMC stars corrected according to López and Girard will be included in the future Vol.5 of the GCVS comprising data for extragalactic variables.

3. Goossens *et al.* (1980) published a list of 22 Mira variables discovered by them in the constellation of Musca, presented for these stars finding charts and co-ordinates (1900.0). Later these stars obtained GCVS designations in the 65th Name-list of Variable Stars (Kholopov *et al.*, 1981). López and Girard present co-ordinates for 19 of these stars showing the positions given by the discoverers being wrong by  $+0^m.655$  to  $+2^m.130$  in  $\alpha$  and by  $-8'.000$  to  $+51'.375$  in  $\delta$ . We have checked each of these cases using charts of Vehrenberg's Atlas; we have also determined co-ordinates for three remaining stars not measured by López and Girard and again found large errors.

Great changes in adopted co-ordinates for all 22 stars lead to a number of mutual identifications of stars in the GCVS and the NSV catalogue. Two such cases of identity, FP Mus = CR Mus and FX Mus = DY Mus, have already been reported by López (1990). We find the following additional identifications (for the stars with

finding charts available): GH Mus = YZ Mus, NSV 06119 = FV Mus, NSV 06122 = FW Mus, NSV 06274 = GG Mus, (and also NSV 04270 = SV Vol, NSV 04934 = RY Cha - two more cases of identity, not from the paper by Goossens *et al.*).

In the cases of there being no finding chart for one of the stars of the pair, the following variables may be identical, according to their positional proximity and certain brightness characteristics: FN Mus = RX Mus?, NSV 05992 = FM Mus?, NSV 06049 = FS Mus?, NSV 06066 = FU Mus?, NSV 06289 = GI Mus?. All the stars with no finding charts were discovered by Luyten (1933). These suggestions of possible identifications need confirmation.

The rest of co-ordinate deviations between the results of López and Girard and the data in GCVS IV and NSV will be carefully checked and taken into account in future versions of our catalogues. The author team of the General Catalogue of Variable Stars wishes to thank C.E. López and T.M. Girard for their useful great activity and for their co-operation. My thanks are due to N.N. Samus for his assistance during the preparation of the manuscript.

E.V. KAZAROVETS  
Institute of Astronomy  
USSR Academy of Science

References:

- Goossens, M., Stoop, C., Waelkens, C.: 1980, IBVS, No.1760.  
Kholopov, P.N., Samus, N.N., Kukarkina, N.P., Medvedeva, G.I., Perova, N.B.: 1981, IBVS, No.1921.  
López, C.E.: 1990, J. Am. Assoc. Var. Star Obs., 18, No.2 /in press/.  
López, C.E., Girard, T.M.: 1990, PASP 102, No.655, 1018.  
Luyten, W.J.: 1933, AN 249, 397.