

COMMISSIONS 27 AND 42 OF THE IAU  
INFORMATION BULLETIN ON VARIABLE STARS  
Number 4354

Konkoly Observatory  
Budapest  
15 July 1996  
*HU ISSN 0374 – 0676*

**IDENTIFICATION OF DAHLMARK VARIABLES**

In his latest list of new variable stars, Dahlmarm (1996) suggested a number of identifications with known variable stars. In addition to Dahlmarm's proposed identifications (LD186 = V677 Cygni or V1093 Cygni, LD209 = FK Lacertae and LD220 = NSV 14621), the current author suspected that LD199 = NSV 14144 and that LD208 = HL Lacertae.

To confirm these possible identifications, comparisons were made between Dahlmarm's finding charts and the original finding charts for the known variables: V677 Cygni, Hoffmeister (1957a); V1093 Cygni, Hoffmeister (1964); FK Lacertae, Hoffmeister (1957b); HL Lacertae, Hoffmeister (1967); and NSV 14144, Hoffmeister (1965). There was no finding chart given for NSV 14621 by Ross (1926).

The finder-chart comparisons show that the identification of LD209 with FK Lacertae is incorrect, but that the other four LD objects can be identified with known variable stars, noting that LD186 = V1093 Cygni.

Accurate coordinates and identifications from the Guide Star Catalogue (GSC) are given in Table 1. Discrepancies with GCVS positions are noted. Positions without GSC identifications were measured on the Digital Sky Survey. The number of comparison stars used in the reduction is given in the table; the (internal) r.m.s. residual of the comparison stars was 0".2 for all the reductions. Although no confirming chart is available the newly-determined position for LD220 is in excellent agreement with the GCVS position for NSV 14621.

Gareth V. WILLIAMS  
Harvard-Smithsonian Center for  
Astrophysics  
60 Garden Street  
Cambridge MA 02138  
U.S.A.  
E-mail: gwilliams@cfa.harvard.edu

References:

- Dahlmarm, L., 1996, *I.B.V.S.*, No. 4329.  
Hoffmeister, C., 1957a, *M.V.S.*, No. 274.  
Hoffmeister, C., 1957b, *M.V.S.*, No. 280.  
Hoffmeister, C., 1964, *Astron. Nachr.* **288**, 49.  
Hoffmeister, C., 1965, *Astron. Nachr.* **289**, 1.  
Hoffmeister, C., 1967, *Astron. Nachr.* **290**, 43.  
Kholopov, P. N., *et al.*, 1985–1988, *General Catalogue of Variable Stars*, 4th edition (Moscow, Nauka Publishing House)  
Ross, F. E., 1926, *Astron. J.* **36**, 123.

Table 1. Accurate coordinates and GSC identifications

Object	R.A. (2000)	Decl. (2000)	GSC id	LD id	Note
V677 Cyg	21 <sup>h</sup> 53 <sup>m</sup> 17 <sup>s</sup> .69	+44°03′23″.0	3197.00163		
V1093 Cyg	21 53 29.32	+44 05 05.0	3197.00543	LD186	1
LD209	22 46 20.97	+52 14 34.6	3633.02601		
FK Lac	22 46 33.45	+52 09 29.2	3633.02237		2
HL Lac	22 45 15.10	+50 51 53.9		LD208	3
NSV 14144	22 23 28.94	+47 44 32.3		LD199	4
LD220	23 34 07.65	+46 20 02.7			5

Note:

1. GCVS R.A. in error by +12<sup>s</sup>.
2. GCVS R.A. in error by −9<sup>s</sup>.
3. 9 GSC comparison stars. GCVS R.A. in error by +16<sup>s</sup>.
4. 13 GSC comparison stars. GCVS R.A. in error by +5<sup>s</sup>, Decl. by −3′.
5. 12 GSC comparison stars. J2000.0 GCVS position (R.A. 23<sup>h</sup>34<sup>m</sup>08<sup>s</sup>, Decl. +46°20′4).