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POSITIONS OF VARIABLES IN SOUTHERN CLUSTERS

This note reports positions and GSC identifications for 37 new variables in southern star clusters, originally announced several years ago in two issues of IBVS (Lapasset and Claria 1985; Lapasset, Claria and Minniti 1991).

All stars have been searched for in the Guide Star Catalog, and DM catalogues. The identifications are listed in Table 1A (for stars in the 1985 paper) and Table 1B (1991 paper). Stars are grouped with their respective clusters, and in the same order as in the discovery papers. GSC numbers and magnitudes are given to enable correct identification. Coordinates are taken directly from the GSC, except for a few non-GSC entries which have been measured relative to nearby stars.

In one instance, NGC 2539-5 & 6, the IBVS finder chart does not separate this pair cleanly, and I have found the digitized NASA Skyview image gives much better resolution.

Table 1A: New variables in open clusters (according to IBVS No.2749). Identifications and coordinates.

Clust.-member	GSC No.	GSC Mag.	RA (J2000)	Decl. (J2000)	Notes
NGC 2323-58	5381.00144	12.60	07 ^h 02 ^m 48 ^s .1	-08°13'40"	
NGC 2323-100	5381.01376	13.31	07 02 44.1	-08 22 53	
NGC 2323-160	5381.01692	12.21	07 02 47.2	-08 30 25	
NGC 2567-19	7122.01262	13.40	08 18 34.5	-30 38 01	
NGC 2567-35	7122.01299	13.52	08 18 49.3	-30 35 41	
NGC 2567-40	.....	.....	08 18 48.0	-30 38 13	Note 4.
NGC 2567-58	7122.01338	12.72	08 18 23.5	-30 40 12	
IC 2395-169	8155.03642	11.63	08 44 07.7	-48 04 03	Note 1.
IC 2395-220	8155.06178	12.81	08 41 37.0	-48 24 59	
NGC 5460-330	8268.02472	13.43	14 08 01.4	-48 07 19	
NGC 5460-337	8268.01848	13.16	14 08 26.9	-48 21 38	
NGC 5460-366	8268.01682	13.23	14 06 50.8	-48 15 07	
NGC 5460-375	8268.03365	13.40	14 08 43.3	-48 26 26	
NGC 5662-17	8687.01183	11.70	14 36 14.4	-56 40 33	
NGC 5662-166	8687.01606	13.07	14 36 37.1	-56 27 23	

Table 1B: New variables in open clusters (according to IBVS No.3594). Identifications and coordinates.

Clust.-member	GSC No.	GSC Mag.	RA (J2000)	Decl. (J2000)	Notes
NGC 2437-174	5422.00717	11.31	07 ^h 41 ^m 51 ^s .5	-14°54'29"	Note 2.
NGC 2453-50	6548.00790	11.00	07 47 33.1	-27 11 35	Note 3.
NGC 2539-1	5434.02555	12.13	08 10 55.8	-12 47 14	
NGC 2539-2	5434.03158	13.35	08 11 00.5	-12 50 43	
NGC 2539-3	5434.03081	11.54	08 10 38.1	-12 50 42	
NGC 2539-4	5434.03488	13.35	08 10 34.6	-12 49 36	
NGC 2539-5	.....	.....	08 10 18.9	-12 47 33	Note 4.
NGC 2539-6	5434.00867	11.29	08 10 18.4	-12 47 39	
NGC 2539-7	5434.03191	13.55	08 10 57.7	-12 46 45	
NGC 2539-8	5434.02488	13.49	08 11 24.9	-12 45 01	
NGC 2539-9	5434.03140	14.23	08 10 17.5	-12 42 36	
NGC 2539-10	5434.02816	12.89	08 10 42.9	-13 00 42	
NGC 2539-11	5434.02863	14.42	08 10 20.7	-12 53 40	
NGC 5749-40	8684.01484	13.40	14 48 03.9	-54 36 16	
NGC 5749-64	8684.00908	12.98	14 48 33.3	-54 28 44	
NGC 5749-82	.....	.....	14 49 45.1	-54 29 10	Note 4.
Cr223-10	8613.01333	12.45	10 29 53.6	-59 55 11	
Cr223-41	8956.01910	11.95	10 29 24.8	-60 05 15	
Cr223-42	8956.02557	12.15	10 29 55.5	-60 00 31	
Cr223-105	8956.01289	11.39	10 30 18.8	-60 02 06	
Cr223-109	.....	.....	10 30 21.3	-60 00 10	Note 4.

Note 1. IC 2395-169 = CoD-47°4299 (10), CPD-47°2641 (10.2).

Note 2. NGC 2437-174 = BD-14°2136 (10).

Note 3. NGC 2453-50 = CoD-26°4987 (9.7).

Note 4. Not in GSC.

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References:

Lapasset, E. and Claria, J.J., 1985, *IBVS*, No.2749

Lapasset, E. and Claria, J.J. and Minniti, D., 1991, *IBVS*, No. 3594

CORRECTED POSITION FOR EV Aqr

I have reported (Morel, 1994) the position of EV Aqr as being that of a GSC star. The finder chart I used was the one of Tsesevich and Kazanasmas (1971). However, the recent atlas of cataclysmic variables by Downes and Shara (1993) indicates the correct position is slightly to the south of the GSC star (GSC 0526.01562). They give the following position:

$$(J2000) 21^{\text{h}}6^{\text{m}}19^{\text{s}} +0^{\circ}51'53''$$

which corresponds to the faint candidate in their atlas.

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References:

- Downes, R.A. and Shara, M.M., 1993, *P.A.S.P.*, **105**, 127
Morel, M., 1994, *IBVS*, No. 4037
Tsesevich, V.P. and Kazanasmas, M.S., 1971, Atlas of Finding Charts of Variable Stars
(Moscow, Acad. Sci. USSR)