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OBSERVATIONS OF VARIABLE STARS IN NGC 1261

In announcing 7 new variables in NGC 1261 (1) the authors did not take into account the catalogue of Fourcade, Laborde and Albarracin (2). Vars. no. 7,9,12 of Bartolini et al.(1) are the same as vars. no.10,8,11 of Fourcade et al.(2); Bartolini's variables no. 8,10,11,13 are new and we are proposing to assign them numbers 12,13,14,15.

Owing to small discrepancies between our values and those of Fourcade we measured the coordinates of all the variables obtaining:

Var. No.	X	Y	Var. No.	X	Y
1	- 29.8	- 28.4	9	+ 37.9	- 38.8
2	- 39.8	+ 34.9	10	+ 52.3	+ 70.6
3	+ 49.6	- 54.6	11	- 89.0	+ 89.5
4	+ 31.8	- 36.1	12	+ 87.1	- 10.5
5	- 34.5	- 5.0	13	- 77.1	- 98.0
6	+ 78.1	- 12.3	14	- 53.5	- 70.7
7	-149.3	+140.2	15	-114.5	+129.1
8	-133.7	-139.0			

From August 14 to September 11,1970, 11B plates (IIa - o + GC 13) were taken with the 40 inch (F/8) telescope of Siding Spring Observatory; the exposure time was 35 minutes for every plate.

Using the photoelectric sequence of Alcaïno and Contreras (3), we determined the magnitudes reported in Table I; magnitudes of the vars.no. 2,5,7,9 and 14 were visually estimated, the others were obtained with a II Zeiss fixed aperture photometer.

Magnitudes of the vars. no. 3 and 5 are affected by blending of the variable with another close star.

On the basis of the RR Lyrae stars we were able to classify, the ratio n_c/n_{ab} is 0.25 and NGC 1261 seems to be an A type globular cluster according to the classification of Castellani et al. (4).

The var. no. 15, which is included among the standards of Alcaïno and Contreras, is slowly varying and in B is more than 1^m.3 brighter than the RR Lyrae variables. As it is very red (B-V = +1.67) (3), in V the difference of magnitude with the RR Lyrae increases to about 2^m.6, and from its position in H-R Diagram (3) we are led to believe that it is an irregular or long period variable star.

Osservatorio Astronomico
dell'Universita di Bologna
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TABLE I

J. D. -	2	3	5	6	7	8	9	10	11	12	13	14	15
2440000													
813.203	17.2	16.30	16.4	17.15	17.15	16.13	16.9	16.22	16.85	16.68	17.05	16.22	15.26
814.180	17.1	16.67	16.25	16.77	17.3	17.48	16.95	17.43	17.29	17.42	17.35	17.23	15.21
837.072	17.0	16.29	16.8	17.19	16.9	17.24	16.85	16.60	16.91	16.94	17.15	17.05	15.82
.100	16.9	16.43	16.75	17.32	17.05	17.36	16.85	16.17	16.98	17.02	17.24	17.0	15.76
.173	16.1	16.50	16.75	17.04	17.2	17.38	17.15	16.62	17.08	17.25	17.19	17.0	15.79
.207	16.05	16.50	16.6	16.50	17.3	17.39	17.15	16.77	17.13	17.29	16.91	17.0	15.77
.233	16.15	16.48	16.35	16.32	17.15	17.42	17.15	16.87	17.13	17.28	16.85	16.95	15.86
.258	16.25	16.45	16.1	16.46	16.9	17.44	16.65	16.99	17.24	17.41	16.79	16.7	15.81
841.219		15.88	16.3	16.54	17.1	16.55	17.05	16.41	17.21	16.35	17.19	17.05	15.78
.244		15.99	16.85	16.58	16.9	16.75	17.1	16.49	17.23	16.39	17.23	17.15	15.75
.270		16.10	17.0	16.75	16.85	16.85	17.1	16.70	17.19	16.59	16.90	16.85	15.82

RR type ab ah ab ab c ab ab ab ab c ab

- 1) Bartolini C., Grilli F., Robertson J.W. - I.B.V.S.594 (1971)
- 2) Fourcade C.R., Laborde J.R., Albarracin J. - Atlas Y Catalogo de Estrellas Variables en Cumulos Globulares al sur de - 29° (Cordoba, 1966).
- 3) Alcaïno G., Contreras C. - Astron. and Astrophys., 11,14 (1971).
- 4) Castellani V., Giannone P., Renzini A. - Astrophys. and Space Sci., 9, 418 (1970).