

COMMISSION 27 OF THE I. A. U.
INFORMATION BULLETIN ON VARIABLE STARS
NUMBER 752

Konkoly Observatory
Budapest
1972 December 31

12 NEW VARIABLE STARS IN NGC 6402

A recently determined color-magnitude diagram for NGC 6402 (M14) (1) showed a number of stars which were not known to be variable and which fell in the variable star gap. Using 11 plates taken with the 61-inch at Flagstaff in 1967 by Dr. Serge Demers as well as 5 plates taken with the Mt. Wilson 100-inch by Dr.H. Arp in 1952, the authors checked these stars for variability. In this way 11 new variables have been found. In addition, another was found by chance.

In the table below, the coordinates x and y were measured using the system of reference originally used by Helen Sawyer (2). The B magnitudes were determined using standards given in Demers and Wehlau (3).

Var.No.	x	y	max	min
77	-110	+55	17.55	18.10
78	-137	-5	17.50	18.50
79	-12	-18	17.40	18.50
80	-35	-145	17.50	18.45
81	-38	-138	17.65	18.10
82	-79	-122	17.65	18.20
83	-65	-34	17.70	18.50
84	-44	-38	17.80	18.60
85	-21	+48	17.65	18.25
86	+64	+22	17.85	18.75
87	-74	+11	17.60	18.60
88	-78	+10	17.55	18.55

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(1) Smith, C. 1973, unpublished M.Sc. thesis, University of Western Ontario.

(2) Sawyer, H.B. 1938, Pub.Dom.Ap.O. 7, 121.

(3) Demers, S. and Wehlau, A. 1971, Astron.J. 76, 916.