

ROYAL ASTRONOMICAL SOCIETY OF NEW ZEALAND.

VARIABLE STAR SECTION.

CIRCULAR No. 176.

NOVA IN LARGE MAGELLANIC CLOUD.

The Carter Observatory have advised the receipt of a telegram reporting the discovery of a nova in the Large Magellanic Cloud by Graham on 1971 Feb. 2.

1975 Position of Nova: R.A. 04h 58.4m Dec. S. 68° 08'  
MAGNITUDE 12 (unspecified).

The Carter Observatory have also advised the main N.Z. observers.

Photoelectric observers will find a suitable sequence in "Astronomical Journal" 74, 10 (1375) p. 1125, 1969. This sequence, by Bok and Bok, is shown on page 1263 of the same volume.

Should the nova brighten visual observers can use the following comparison stars for which V magnitudes have been taken from MNRAS 124, 4, 1962.

<u>HD</u>	<u>R.A. 1900</u>	<u>DEC. 1900</u>	<u>V.</u>
34349	5h 11.6m	S. 65° 17'	7.03
33486	5 5.4	68 13	7.86
32762	5 00.3	68 44	8.06
33031	5 2.2	69 38	8.12
31722	4 53.0	69 34	8.45
32858	5 1.0	69 30	8.73
33029	5 2.2	61 33	8.75
33032	5 2.2	72 36	9.02

Below these limits suitable comparison stars extracted from MNRAS, 121, 4, 1960 are:-

<u>HD/HDE</u>	<u>R.A.--1975</u>	<u>DEC. 1975</u>	<u>V</u>
32034	4h 55.1m	S. 67° 12'	9.65
268757	4 54.4	69 14	10.25
268653	4 53.4	66 58	10.73
268729	4 53.9	68 45	11.0
268605	4 50.4	67 42	11.33
268809	4 56.6	69 18	11.89

Observations should be forwarded to the Director on separate sheets to the usual reports.

This Circular and No. 162 are being distributed to N.Z. and Australian members at once. This means that Nos. 163 to 175 which are being printed at present will follow later.

1971 February 5

Frank M. Bateson.

Director.

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GREERTON.  
TAURANGA.  
NEW ZEALAND.