

ROYAL ASTRONOMICAL SOCIETY OF NEW ZEALAND.

VARIABLE STAR SECTION.

CIRCULAR No. 195

RX MICROSCOPII.

Frank M. Bateson & A.F. Jones.

SUMMARY: Twenty two maxima are tabulated for RX Mic covering the interval JD 2,434,836 to 2,440,210. Elements derived are:-

Epoch Max. 2,435,343 \pm 239^d.75
Mean Max. Mag:- 10.4_v (9.5-10.7); Min <14.0_v

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DISCUSSION: Charts 211 & 212 for RX Mic were published (1). The sequence stars selected were identified on these charts by letters. V and B-V magnitudes for these stars were published in Circular 187 (2).

RX Mic is a Mira type variable with a range of 10-<13_p for which no period is given in G.C.V.S. (3rd Edition). Table 1 lists dates of maxima determined from visual observations from JD 2,434,836 (1954 April 3) to 2,440,210 (1968 December 19). The table is in the usual form with the final column showing the O-C residuals resulting from the derived elements of:-

EPOCH Max. J.D. 2,435,343 \pm 239^d.75

The average deviation from these elements is \pm 8.14 days. The range is Mean Max. 10.4_v (9.5- 10.7) with Min. <14.0_v. As minimum brightness is below the limits of the instruments employed nothing can be stated about minima

ACKNOWLEDGEMENTS:

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1972 January 29

18 POOLES ROAD,
GREERTON.
TAURANGA.
NEW ZEALAND.

REFERENCES:-

- (1) 1970. Bateson, F/M., Jones, A.F. & Stranson, I. "Charts for Southern Variables--Series 6." Published by F.M. Bateson.
- (2) 1972 Circ. 187. VSS, RASNZ.

V.S.S. CIRCULAR No. 195 (cont).

TABLE 1.

OBSERVED MAXIMA OF RX MICROSCOPII.

<u>J.D.</u>	<u>MAG.</u> v	<u>INT.</u> d	<u>Wt.</u>	<u>O-C.</u> d
2,434,894	9.7	...	3	+30
2,435,343	9.8	...	5	+ 0
597	10.7	254	4	+14
820?	10.2	223	1	- 3
2,436,082	10.7	262	5	+20
313	9.9	231	3	+11
543	10.7	230	2	+ 1
782	9.5	239	5	+ 0
2,437,025	9.8	243	2	+ 4
257	9.9	232	3	- 4
506	10.0	249	5	+ 5
739	9.9	233	2	- 2
972	9.6	233	3	- 8
2,438,209	10.3	237	5	-11
445	10.0	236	2	-15
692	9.8	247	3	- 8
930	9.8	238	5	- 9
2,439,170?	9.8?	240	1	- 9
408	10.6	238	4	-11
647	9.6	239	4	-12
900?	10.5?	253	1	+ 2
2,440,138	10.0	238	3	+ 0

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