

ROYAL ASTRONOMICAL SOCIETY OF NEW ZEALAND

VARIABLE STAR SECTION

CIRCULAR No. 96.

A Note on 115278 T Chamaeleontis.

SUMMARY. Observations from 1956 January 1st to 1959 March 1st are published, together with a light curve. This variable continues to exhibit the rapid fluctuations noted by Hoffmeister (1).

INTRODUCTION. T Chamaeleontis (1900: - RA 11^h52^m24^s Dec. -78°48.4') has been thoroughly discussed by Hoffmeister (1). The observations made by New Zealand observers 1952 September 2nd to 1955 December 31st were included in Hoffmeister's discussions and the actual observations also appeared in his publication.

Due to the rapid variations of this star Hoffmeister has sought the co-operation of this Section in a further intensive study of this variable. This study is now in progress.

Charts of the variable and the comparison stars have been distributed by Hoffmeister. A reproduction of this chart will also appear in the Second Series of charts to be issued by this Section (2).

Since the 1952-55 observations, A.F. Jones has assiduously followed this star. These observations are listed on pages 2 and 3^{ed. note}. As almost all the observations are due to Jones the usual observers' column has been omitted to save space. The same sequence, with visual magnitudes as adopted by Hoffmeister have been used.

DISCUSSION. A plot of the observations is shown on pages 4 to 9. The variable continues to exhibit the irregular variations, with, at times rapid changes, characteristic of RW Aurigae type stars. Where the observations are reasonably close together they have been connected by solid lines. There is little doubt, however, that more observations would have revealed some other changes during these intervals. Jones has on a number of occasions reported the variable increasing or fading, noticeable in the matter of a few seconds.

Occasionally the variable has remained almost constant, the most noticeable being from J.D. 2,436,441 to 2,436,467 when T Cha fluctuated slightly around its maximum magnitude. Visual range is 9.8 to 13.8.

The main object of this note is to draw attention to this interesting star in the hope that more observers will record it on every possible occasion.

ACKNOWLEDGEMENT. My appreciation is due to A.F. Jones for his most careful following of this star on every possible occasion. Also, to Prof. Hoffmeister for his charts and first drawing attention to this variable.

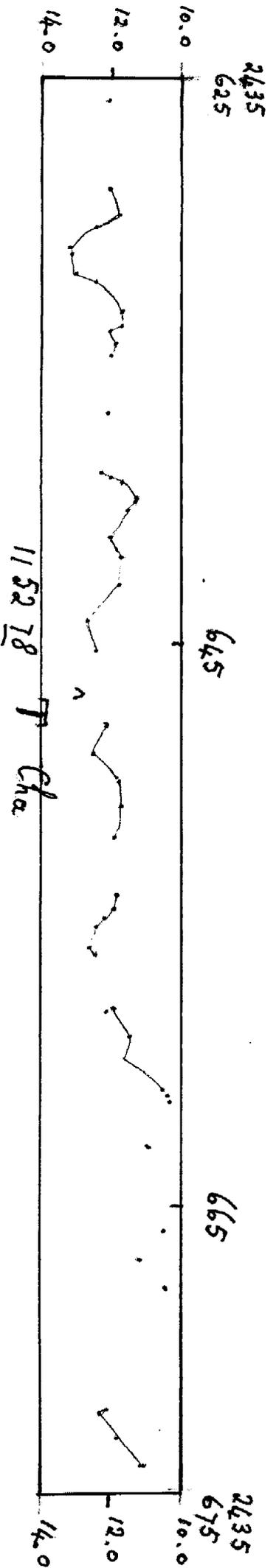
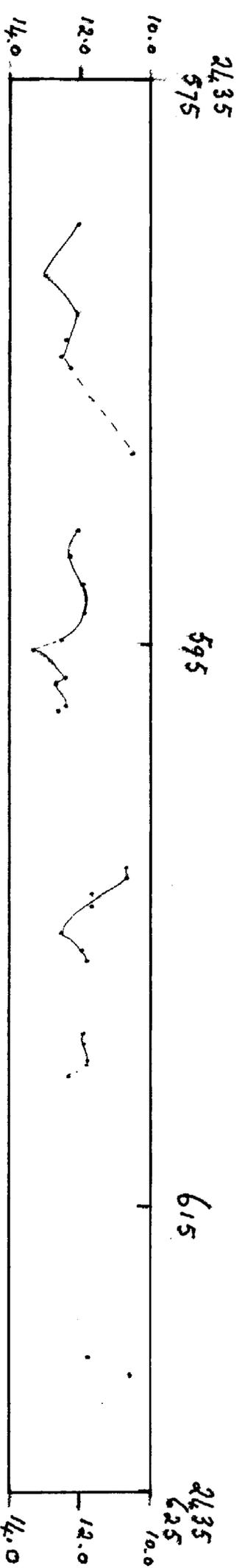
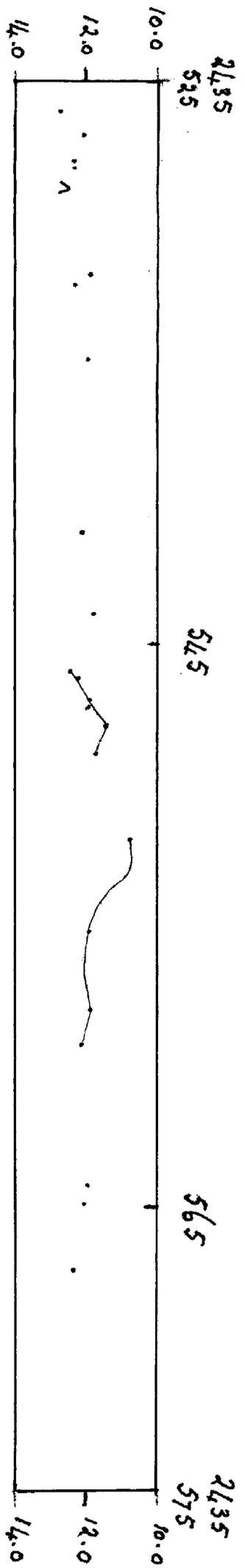
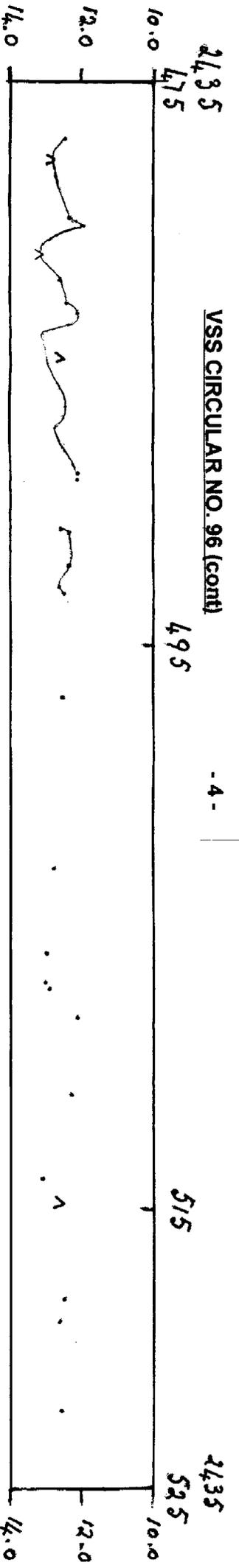
REFERENCES.

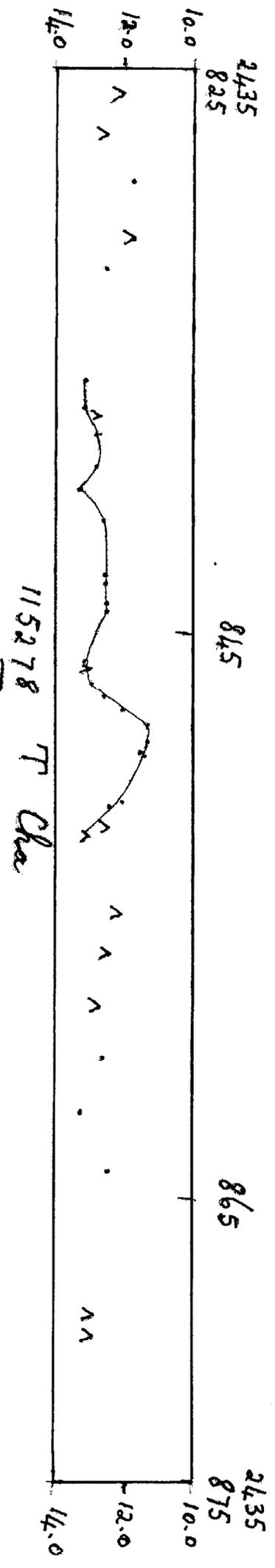
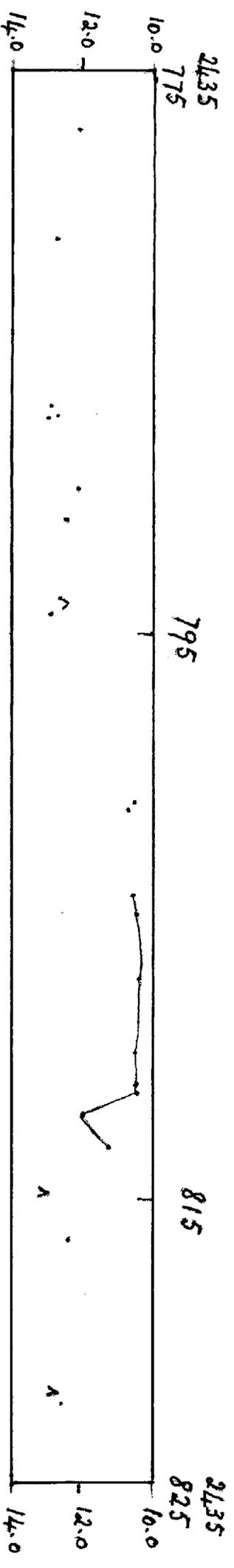
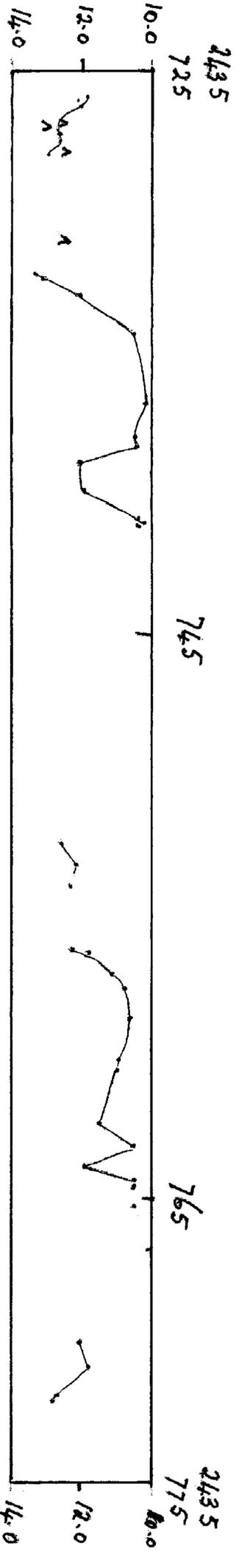
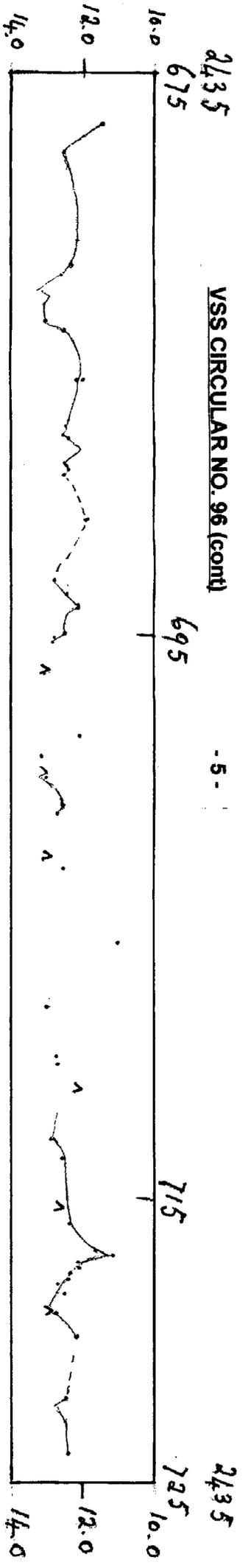
- (1) 1958. C, Hoffmeister. Veröffentlichungen der Sternwarte in Sonneberg. Vol 3, No. 3. Berlin.
- (2) 1959. Circular No. 94, Royal Astronomical Society of New Zealand.

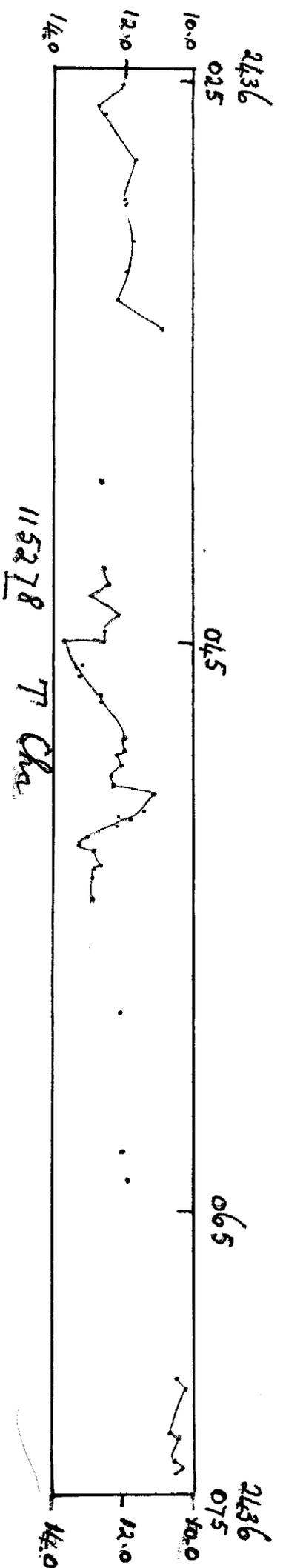
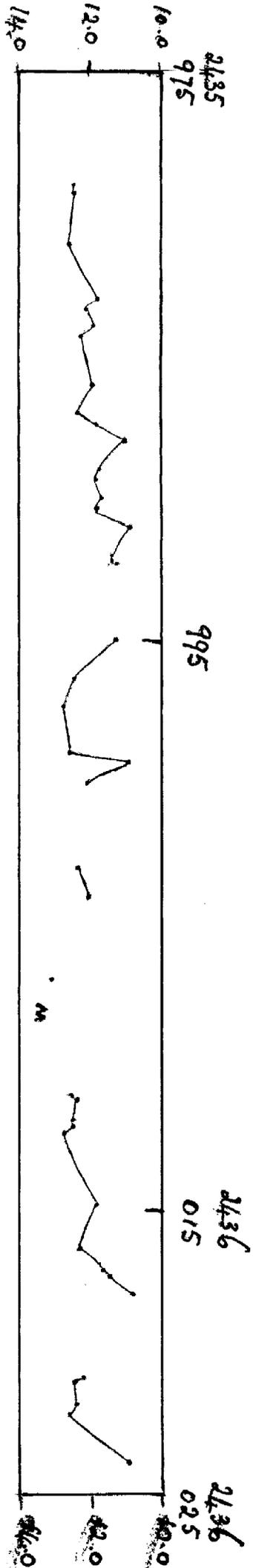
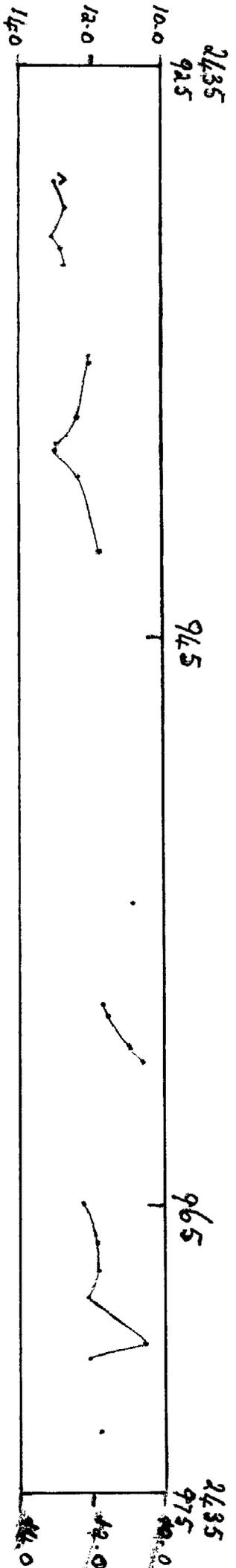
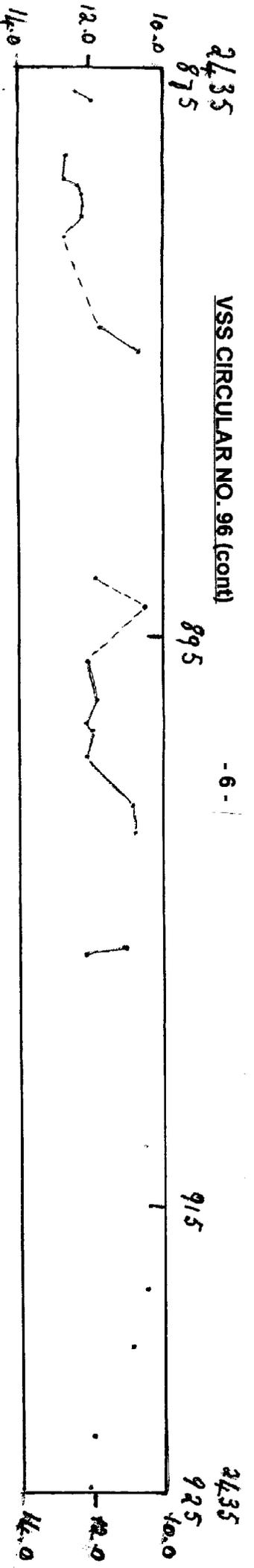
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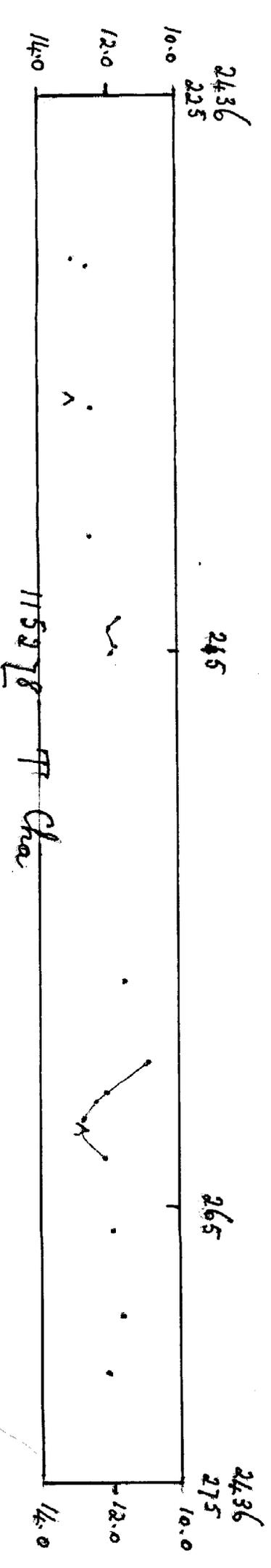
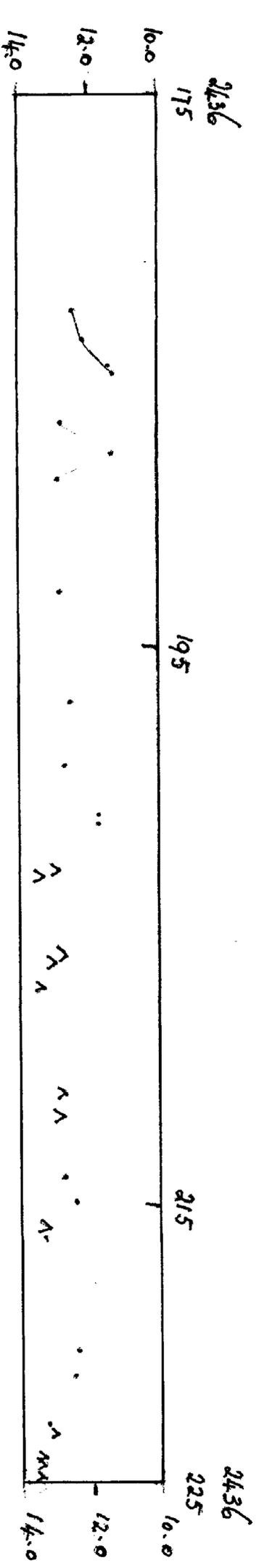
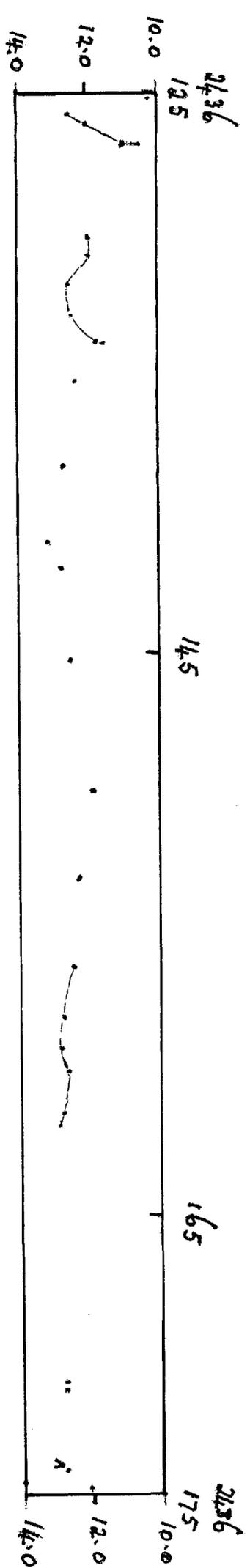
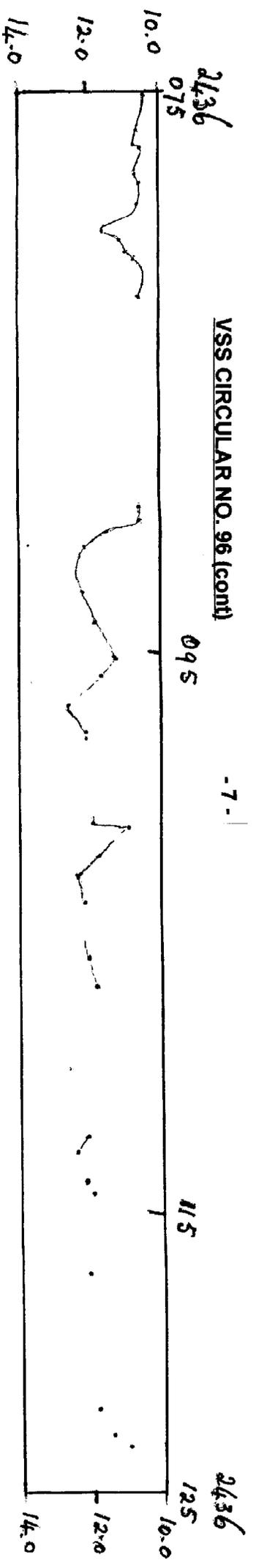
F. M. BATESON
DIRECTOR. 1959 September 21st

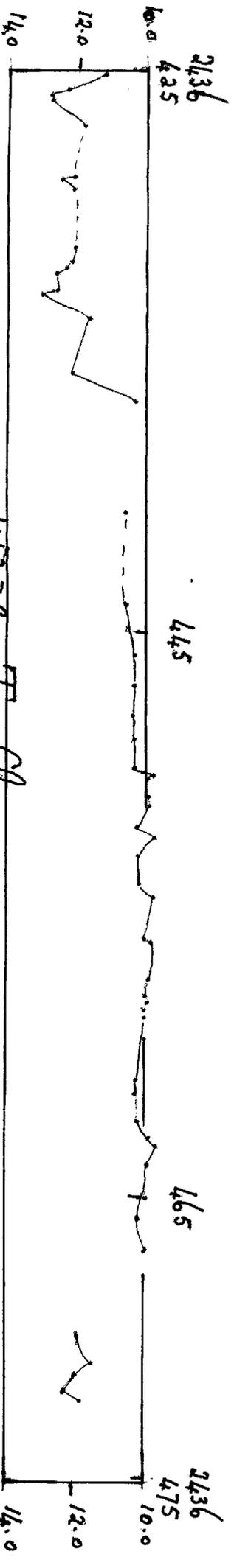
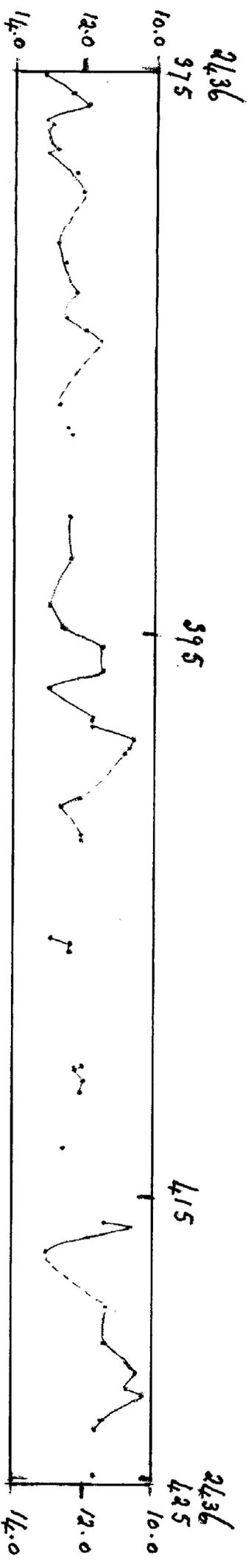
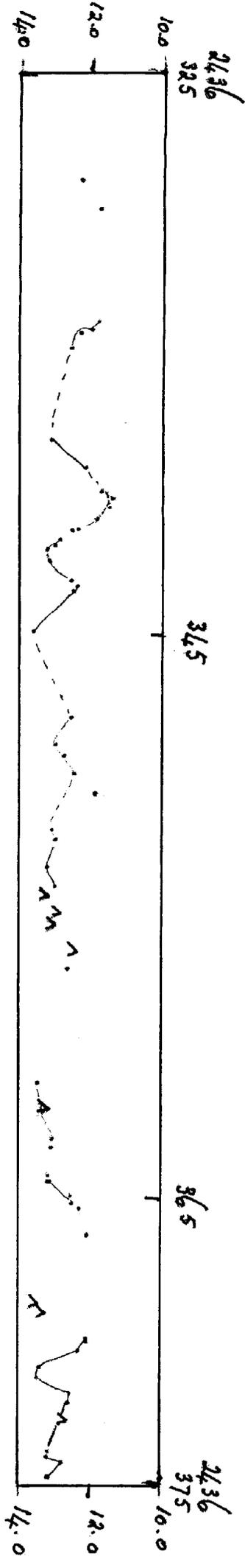
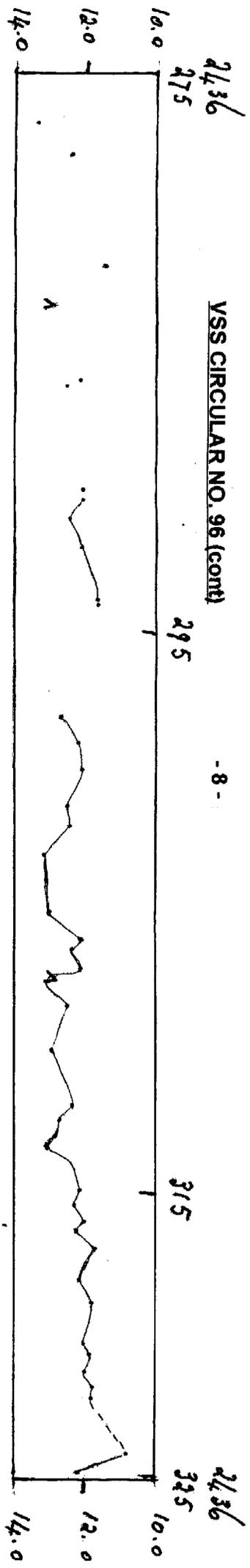
Ed. Note. The long list of observations, from pages 2 and 3 of the original paper are omitted here, as the light curves should suffice. No doubt the observations can be retrieved from the AAVSO Database.



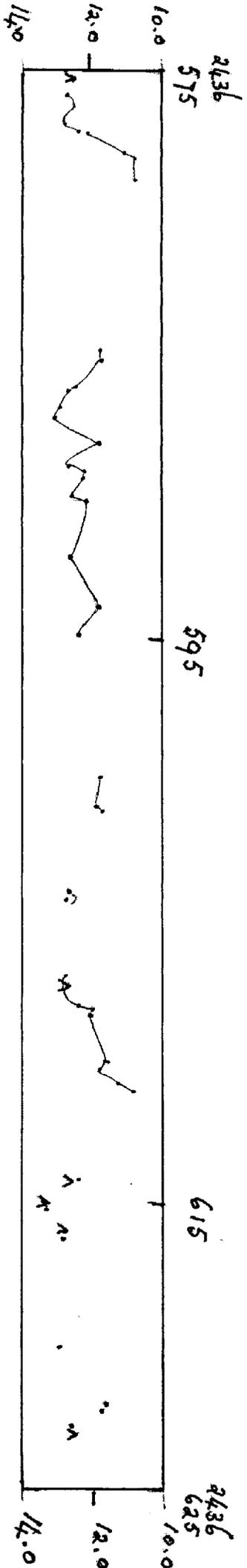
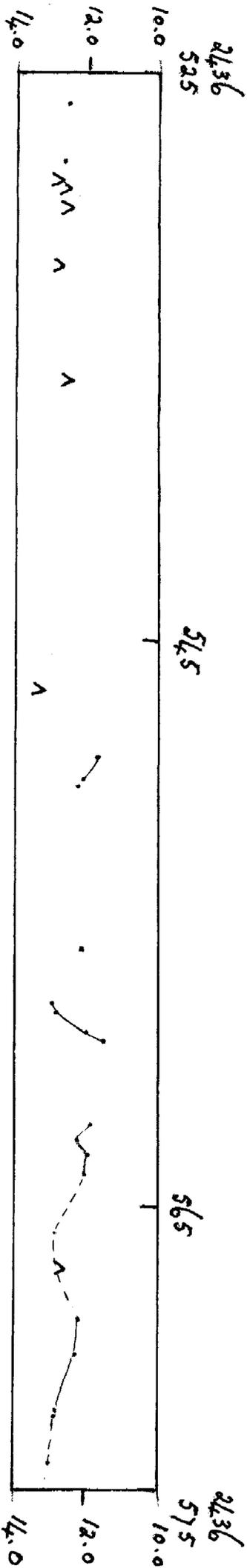
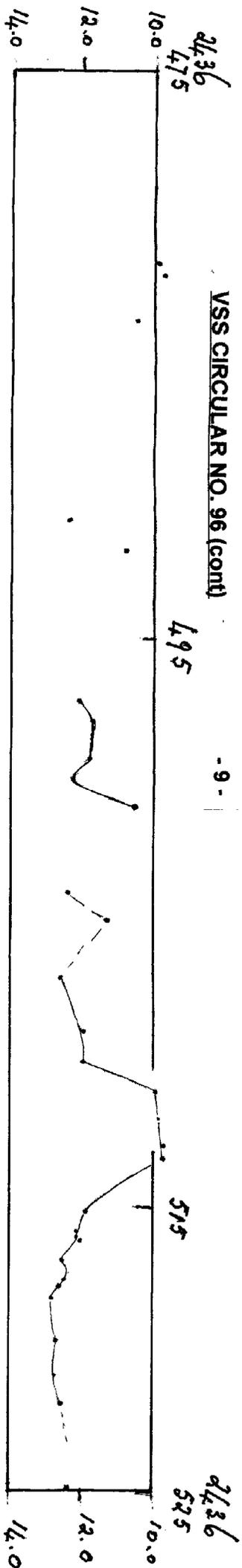








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