

## Werk

**Label:** Table of literature references

**Jahr:** 1934

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5. Klidné pr. dají se těžko konstatovati a vyžadují několika exposic k identifikaci. Vnitřní vířivé pohyby.

Fotografované protuberance byly roztrženy podle těchto charakteristik; u zajímavějších podán popis.

**Summary:** Following the invitation of Sir Frank Dyson, F. R. S., Astronomer Royal and Director of the Greenwich Observatory, the author joined the British Government Eclipse Expedition as volunteer research assistant and observed the total eclipse of the Sun on 31<sup>st</sup> of August 1932 in Parent (Que) in Canada. He was given the opportunity to photograph the corona with the 45-foot telescope of the expedition. Four photographs on a scale of 5 inches to the Sun's diameter were secured. The times of exposure were in seconds: 3, 10, 25, 3, the last picture being blurred by clouds, the first three giving well defined details but no considerable extension of the corona. The contents of the different chapters of this paper is as follows:

Chapt. I—III. Description of the instruments of the expedition and their program. Meteorological and geographical conditions in the totality belt and especially in Parent (Que). Chapt. IV. Elements of the eclipse and observations of contacts. The observed time of the second contact was three seconds later compared with the computed. Chapt. V. Description of the 45-foot telescope, of the adjustments, of the photographs and of the developing. Chapt. VI. Orientation and measurements of the photographs. Chapt. VII. Catalogue of all distinct corona streamers and features. Chapt. VIII. Catalogue of positions and heights of all photographed prominences (53). The prominences are classified according Pettit's classification. For particulars about the work and results of the other instruments the official report of C. Davidson and Dr. Jackson in „Monthly Notices“ Vol. 93, No 1 should be consulted.

The writer considers it as a pleasant duty to thank Sir Frank Dyson, Dr. Jackson and Mr. Davidson for their much valuable help and their kind advice throughout.

#### Literatura.

[1] Freundlich u. H. v. Klüber, Über eine Horizontalkamera mit Präzisions-Coelostaten für astronomische Beobachtung, Ztschr. f. Instrumentenkunde 52, p. 381.

[2] L. Becker, Mém. R. A. S. 57, II, 1906, Phil. Trans. R. S. London (A) 207, 1908.

[3] E. Pettit, Characteristic features of solar prominences. Contr. Mount Wilson Obs. 451, 1932.

[4] E. Pettit, The prominences associated with the eclipse of August 31, 1932. P. A. S. P. Vol. 45, p. 15.