

## ANNUAL REPORT OF THE UNION OBSERVATORY

### JOHANNESBURG

1951

*(Director, Dr. W.H. van den Bos, Union Astronomer)*

The 26½-inch refractor has been used on 129 nights for interferometer and on 41 nights for micrometer measures of double stars. Several new close bright pairs have been discovered with the interferometer by Dr. Finsen.

Plates taken with the Franklin-Adams telescope:

Minor planets	251
Comets	31
Miscellaneous	43
Total	<hr/> 325 plates

In addition, Mr. Johnson secured 20 plates for minor planets and 24 plates for comets with the Leiden Rockefeller telescope. The Franklin-Adams telescope has also been used by Mr. A.B. Muller of Leiden Observatory to take plates of variable star fields.

With the 9-inch refractor, 127 occultations were observed.

Counts of sunspots were made on 323 days.

During the year 972 visitors were admitted on 36 nights.

A transmitter which sends out a continuous time signal on a frequency of 5 Mc/s, controlled by the Observatory's quartz clocks, was built and put into operation.

Manuscripts for *Circulars* No. 111 and 112 and Title Page and Index for Volume 5 were sent to the printer.

Mr. Muller from Leiden worked at the Observatory from May 7 to October 2 and astronomers Bester, Bourgeois, Bok, Henize, Lindsay, Stoy, Thackeray, van Wijk and Wesselink paid visits to the Observatory.