

THE ROYAL SOCIETY  
INTERNATIONAL GEOPHYSICAL YEAR  
ANTARCTIC EXPEDITION  
HALLEY BAY

COATS LAND, FALKLAND ISLANDS DEPENDENCIES

1955-1959

The Royal Society Expedition to Halley Bay in Antarctica was one of the major British contributions to the International Geophysical Year. An extensive research programme in meteorology, geomagnetism, aurora and airglow, ionospheric physics, radio astronomy, glaciology and seismology was carried out at this Base.

All the experimental observations and derived data are being published by the Royal Society in a series of four volumes under the general editorship of Sir David Brunt, K.B.E., F.R.S.

**VOLUME I.** December 1960. Price £7 (U.S. \$23.00), post free.

(400 pages royal 4to—12½ × 9½ in.—including 181 one-third scale photo-lithographic reproductions of the recorded magnetograms, with 1 colour plate, 11 half-tone plates and 50 line drawings; bound in maroon cloth with gold lettering.)

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CONTENTS OF VOLUME I

*Foreword* by Sir Cyril Hinshelwood, O.M., F.R.S. (President of the Royal Society during the I.G.Y.)

*Introduction* by Sir David Brunt, K.B.E., F.R.S. Describes the plans for, and events leading up to, the I.G.Y. and the Royal Society Expedition to Halley Bay.

*The establishment and maintenance of the Royal Society Base, Halley Bay.* Based on reports by Surgeon Cmdr. D. G. Dalgliesh, O.B.E., R.N., Col. R. A. Smart, C.B.E., R.A.M.C. and Mr J. MacDowall, O.B.E. Describes the constructional, administrative and social problems involved and the ways in which these were solved.

*Visual and photographic auroral observations* by S. Evans and G. M. Thomas. Contains the results and discussion of the visual and all-sky camera auroral observations.

*Airglow observations* by G. M. Thomas. Contains the results and discussion of the airglow studies.

*Geomagnetic observations* by J. MacDowall and A. Blackie. Contains the results and discussion of the day-to-day geomagnetic observations, and reproductions of the recorded magnetograms.

VOLUMES II TO IV

Volumes II and III will be published in August 1962 and Volume IV later; contents will include:

**VOLUME II.** Results of ionospheric vertical soundings, absorption and drift measurements. Results of radio-star scintillation measurements and of radio-echo observations of aurorae and meteors.

**VOLUME III.** Seismological bulletin and notes. Meteorological observations (upper-air radio soundings and radar wind observations; total, diffuse and net radiation measurements; total, surface and balloon-borne ozone determinations).

**VOLUME IV.** Surface meteorological observations. Glaciological observations. Emperor Penguin studies. Appendixes dealing with technical aspects of Base operation.

PROCEEDINGS OF THE ROYAL SOCIETY, SERIES B

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