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.

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(400 pages royal 4to—12½ x 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. Appendices dealing with technical aspects of Base operation.
CONTENTS

Address of the President, Sir Howard Florey, at the Anniversary Meeting, 30 November 1961. (Plates 30 to 35) .................................................. 307

The Wilkins Lecture. The origins of Darwin’s ideas on evolution and natural selection.
By Sir GAVIN DE BEER, F.R.S. (Plates 36 to 39) ................................... 321

Haem a compounds as models for cytochromes of group a. I. Absorption spectra of haem a compounds with proteins and other nitrogenous ligands.

Haem a compounds as models for cytochromes of group a. II. Absorption spectra of haem a compounds with detergents.
By R. LEMBERG, F.R.S., N. NEWTON and J. E. O’HAGAN ............................ 356

Haem a compounds as models for cytochromes of group a. III. Schiff’s bases of haem a and other formylhaems and formyl-porphyrins.
By R. LEMBERG, F.R.S. and N. NEWTON ................................................. 364

The stability of an adaptive enzyme formed during growth of Bact. lactis aerogenes (Aerobacter aerogenes) in d-arabinose. I. Complex history of the adaptive changes.
By J. E. M. MIDGLEY and Sir CYRIL HINSHELWOOD, F.R.S. .................. 374

The stability of an adaptive enzyme formed during growth of Bact. lactis aerogenes (Aerobacter aerogenes) in d-arabinose. II. Reversion phenomena.
By J. E. M. MIDGLEY and Sir CYRIL HINSHELWOOD, F.R.S. .................. 384

Quantitative studies on tissue transplantation immunity. V. The role of antiserum in enhancement and desensitization.
By L. BRENT and P. B. MEDAWAR, F.R.S. .................................................. 392

The isolation and synthesis of queen substance, 9-oxodec-trans-2-enoic acid, a honeybee pheromone.
By C. G. BUTLER, R. K. CALLOW, F.R.S. and NORAH C. JOHNSTON ............. 417

By W. T. DRABBLE and Sir CYRIL HINSHELWOOD, F.R.S. ....................... 433

Vegetational history of the Early Pleistocene of the Royal Society Borehole at Ludham, Norfolk.
By R. G. WEST ........................................................................................................ 437