

February 1984

No 62

BRITISH ANTARCTIC SURVEY

BULLETIN



CAMBRIDGE

PUBLISHED BY THE BRITISH ANTARCTIC SURVEY
NATURAL ENVIRONMENT RESEARCH COUNCIL

BRITISH ANTARCTIC SURVEY

Director: DR R. M. LAWS CBE, FRS

Deputy Director: DR R. J. ADIE OBE

Heads of Divisions

Atmospheric Sciences: DR M. J. RYCROFT

Earth Sciences: DR C. W. M. SWITHINBANK

Life Sciences: W. N. BONNER

Managing Editor: DR J. MITTON

The *Bulletin* is published quarterly, in February, May, August and November.

1984 annual subscription: UK £40

Overseas £42

Individual issues: £10.50 each.

Only papers concerned with the work of the British Antarctic Survey can be published in the *Bulletin*, but correspondence on papers appearing in the *Bulletin* or on related topics will also be considered.

The authors of all signed papers are alone responsible for the opinions expressed in them.

Papers to be considered for publication and editorial enquiries should be sent to the Managing Editor of the *Bulletin*, British Antarctic Survey, High Cross, Madingley Road, Cambridge CB3 0ET, England. Telephone: Cambridge (0223) 61188. Telex: 817725 BASCAM G.

Orders for subscriptions and individual copies should be sent with payment to: The Distribution Centre, Blackhorse Road, Letchworth, Hertfordshire SG6 1HN, England. Telephone: Letchworth (04626) 72555. Telex: 825372 TURPIN G.

Copyright © 1984 British Antarctic Survey
ISSN 0007-0262

Printed by Adlard and Son Ltd, Dorking, Surrey

BRITISH ANTARCTIC SURVEY

BULLETIN

No. 62 February 1984

CONTENTS

PAGE

A new ionosonde for Argentine Islands ionospheric observatory, Faraday station	S. M. BROOM	1
Discovery and significance of the ammonite genus <i>Favrella</i> in the Antarctic Peninsula area	M. R. A. THOMSON and G. W. FARQUHARSON	7
The Scotia metamorphic complex at Cape Bowles, Clarence Island, South Shetland Islands, Western Antarctica	F. HERVÉ and R. J. PANKHURST	15
Colonization and recovery by cryptogams following recent volcanic activity on Deception Island, South Shetland Islands	R. I. LEWIS SMITH	25
A comparison of the respiration rates of some Antarctic isopods with species from lower latitudes	R. A. LUXMOORE	53
Benthic protozoa from maritime Antarctic freshwater lakes and pools	G. R. HAWTHORN and J. C. ELLIS-EVANS	67
Identification of fish from the Southern Ocean by means of otoliths	A. W. NORTH, M. S. BURCHETT, C. J. GILBERT and M. G. WHITE	83
Prosobranch gastropods from Signy Island, Antarctica: Buccinacea and Muricacea	P. G. OLIVER and G. B. PICKEN	95
Book review		117