

May 1984
No 63

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. 63 May 1984

CONTENTS

	PAGE
Sporadic <i>E</i> (<i>Es</i>) associated with the main ionospheric trough observed over Halley station, Antarctica C. MORRELL	1
The stratigraphy and structure of the Lagrange Nunataks, northern Fuchs Dome and Herbert Mountains of the Shackleton Range P. D. MARSH	19
The geology of islands in southern Bransfield Strait, Antarctic Peninsula C. M. BELL	41
The lipid content and composition of some Antarctic macrozooplankton A. CLARKE	57
A synoptic flora of South Georgian mosses: <i>Grimmia</i> and <i>Schistidium</i> B. G. BELL	71
A new mite species in the genus <i>Nanorchestes</i> (Acari, Prostigmata) from Signy Island, with a key to Antarctic species R. G. BOOTH	111
Characteristic of krill <i>Euphausia superba</i> eaten by Antarctic fur seals <i>Arctocephalus gazella</i> at South Georgia J. P. CROXALL and M. N. PILCHER	117
Techniques for the serial collection of blood samples and inspection of gonads in free-living albatrosses J. A. L. HECTOR	127
Book Reviews	135