

August 1984
No 64

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. 64 August 1984

CONTENTS

	PAGE
The geochemistry and age of the Danger Islands pluton, Antarctic Peninsula R. D. HAMER and G. HYDEN	1
The morphology of some periglacial features on South Georgia and their relationship to local environment T. D. HEILBRONN and D. W. H. WALTON	21
Lipid composition of two species of <i>Serolis</i> (Crustacea, Isopoda) from Antarctica A. CLARKE	37
Protozoa of Signy Island fellfields H. G. SMITH	55
A new variety of the moss <i>Tortula robusta</i> from South Georgia P. J. LIGHTOWLERS	63
A comparative study of invertebrate supercooling at Signy Island, maritime Antarctic W. BLOCK	67
A record of <i>Schistidium falcatum</i> (Bryophyta: Musci) from the Antarctic R. OCHYRA and B. G. BELL	77
Composition of the mineral phase of dentine in southern elephant seal and Antarctic fur seal teeth A. B. MOYES and D. W. DOIDGE	81
Report on Antarctic fieldwork Preliminary ammonite zonation of the mid-Cretaceous rocks of James Ross Island M. R. A. THOMSON	85
Book reviews	93