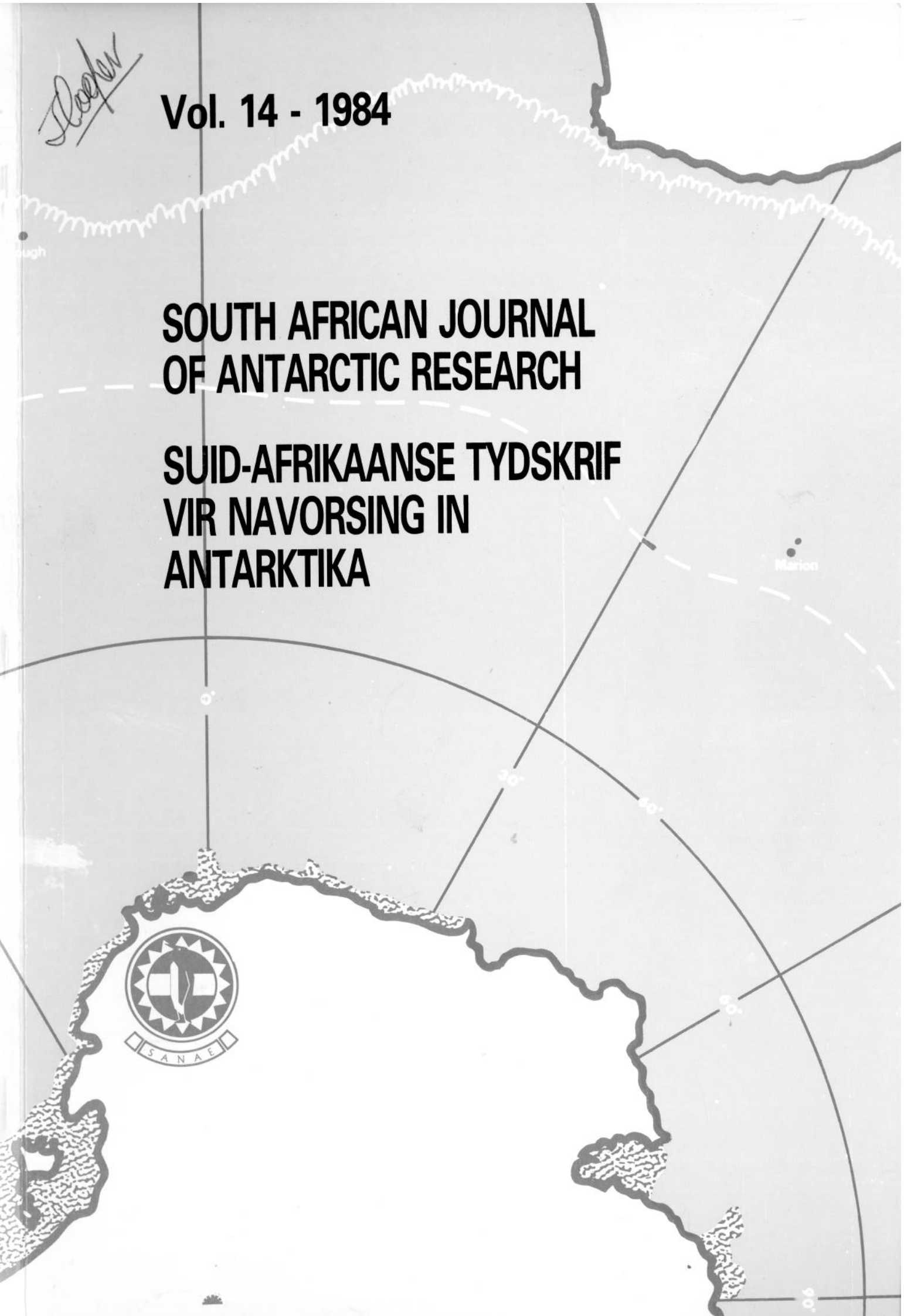


Doepker

Vol. 14 - 1984

**SOUTH AFRICAN JOURNAL
OF ANTARCTIC RESEARCH**

**SUID-AFRIKAANSE TYDSKRIF
VIR NAVORSING IN
ANTARKTIKA**



South African Journal of Antarctic Research

Suid-Afrikaanse Tydskrif vir Navorsing in Antarktika

Vol. 14, 1984



A South African National Antarctic Programme publication issued under the auspices of the South African Scientific Committee for Antarctic Research, P.O. Box 395, Pretoria, Republic of South Africa.

'n Suid-Afrikaanse Nasionale Antarktiese Program publikasie uitgegee onder beskerming van die Suid-Afrikaanse Wetenskaplike Komitee vir Antarktiese Navorsing, Posbus 395, Pretoria, Republiek van Suid Afrika.

Scientific Editor
Wetenskaplike Redakteur Dr P.R. Condy
Editorial Committee Dr G.S. Baker
Redaksiekomitee Prof. J.D. Skinner
Mr R.W. Vice

All contributions and correspondence to be addressed c/o The Editor, South African Journal of Antarctic Research, FRD, CSIR, P.O. Box 395, Pretoria, 0001.

Alle bydraes en korrespondensie moet gerig word p/a Die Redakteur, Suid-Afrikaanse Tydskrif vir Navorsing in Antarktika, SNO, WNNR, Posbus 395, Pretoria, 0001.

Produced and distributed by the Foundation for Research Development, CSIR, P.O. Box 395, Pretoria, 0001.

Versorg en versprei deur die Stigting vir Navorsingsontwikkeling, WNNR, Posbus 395, Pretoria, 0001.

Printed in the Republic of South Africa by Northern Cape Printers Ltd., P.O. Box 113, Kimberley, 8300.

In die Republiek van Suid-Afrika gedruk deur Noordkaaplandse Drukkers, Posbus 113, Kimberley, 8300.

ISSN 0081-2455

Contents — Inhoud

A note on the layered intrusions at Annandagstoppane and Juletoppane, Western Dronning Maud Land	<i>J.R. Krynauw</i> <i>D.R. Hunter and</i> <i>A.H. Wilson</i>	2
Observations on the birds and mammals of île aux Cochons, Crozet Islands, in February 1982	<i>J.-F. Voisin</i>	11
Life-cycle and kelp consumption of <i>Paratora dreuxi mirabilis</i> (Diptera: Helcomyzidae): A primary decomposer of stranded kelp on Marion Island	<i>J.E. Crafford</i>	18
Bacterial numbers in the freshwater bodies of a sub-Antarctic island	<i>V.R. Smith and</i> <i>T. Hilmer</i>	23
The effect of glucose, P, Co and Mo on heterotrophic acetylene reduction in a sub-Antarctic peat	<i>V.R. Smith</i>	27
Hydrology and bio-oceanography of the Prince Edward Islands (south-west Indian Ocean)	<i>D.G.M. Miller,</i> <i>B.P. Boden and</i> <i>L. Parker</i>	29
Prey from three chinstrap penguins <i>Pygoscelis antarctica</i> at Bouvet Island, December 1982	<i>J. Cooper,</i> <i>J.W. Enticott,</i> <i>T. Hecht and</i> <i>N. Klages</i>	32
Breeding status of burrowing petrels at Prince Edward Island	<i>J. Cooper and</i> <i>M. de L. Brooke</i>	34
Scientific research at Bouvet Island, 1785-1983: a bibliography	<i>B.P. Watkins,</i> <i>J. Cooper and</i> <i>I.P. Newton</i>	36
Research into the natural sciences at the Tristan da Cunha islands, 1719-1983: a bibliography	<i>B.P. Watkins,</i> <i>J. Cooper and</i> <i>I.P. Newton</i>	40
South African Committee for Antarctic Research (SASCAR) 1984		48
South African Members of SCAR, SCAR Working Groups and SCAR Groups of Specialists 1984		48
Direction of South African National Antarctic Research Programmes 1984		49
Members of the 25th South African National Antarctic Expedition 1984/1985		49
Members of the 41st South African Expedition to Marion Island 1984-1985		49
Members of the 30th South African Expedition to Gough Island 1984-1985		50