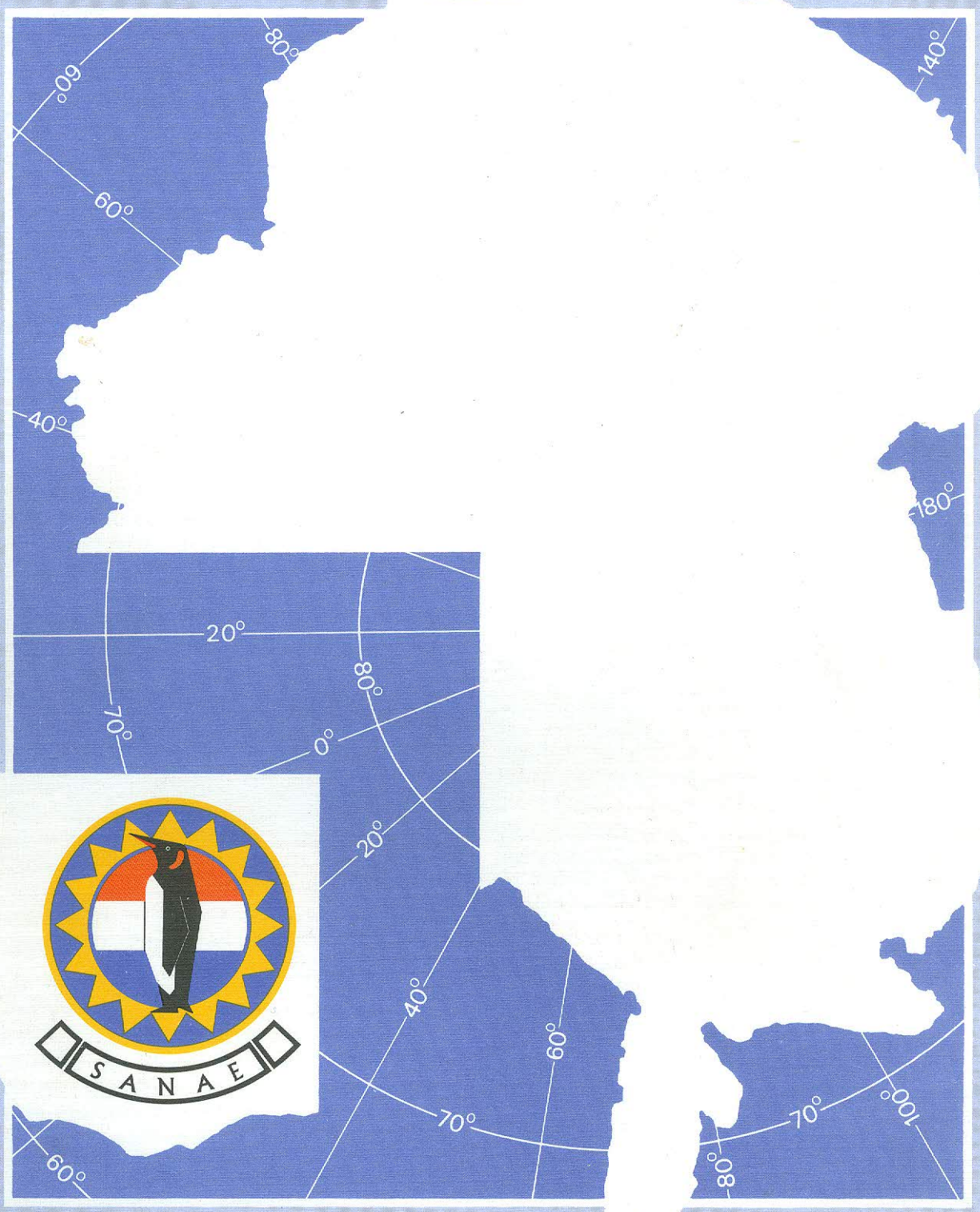


Sloepes

South African **JOURNAL OF
ANTARCTIC RESEARCH**

Suid-Afrikaanse **TYDSKRIF VIR
ANTARKTIESE NAVORSING**



No. 1-1971

South African Journal of Antarctic Research

Suid-Afrikaanse Tydskrif vir Antarktiese Navorsing

No. 1 1971

Contents - Inhoud



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

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

Scientific Editor:

Wetenskaplike Redakteur: R. W. Vice
 Editorial Committee: S. Meiring Naudé
 Redaksiekomitee: F. J. Hewitt
 S. P. Jackson

All contributions and correspondence to be addressed to the Editor, P.O. Box 3718, Johannesburg.

Alle bydraes en korrespondensie moet gerig word aan die Redakteur, Posbus 3718, Johannesburg.

Produced and distributed by the Publishing Division, CSIR, P.O. Box 395, Pretoria.

Versorg en versprei deur die Publikasie-afdeling, WNNR, Posbus 395, Pretoria.

Designed by Henk Burgers Studio, Pretoria and printed in the Republic of South Africa by Cygnet Print Ltd., P.O. Box 611, Johannesburg.

Ontwerp deur Henk Burgers-ateljee, Pretoria en in die Republiek van Suid-Afrika gedruk deur Cygnet Print Ltd., Posbus 611, Johannesburg.

	<i>Page</i>
Introduction	2
First ten years of Antarctic research	2
Reviews	
Scientific results of the South African Antarctic Ionosphere programme 1962-1970	3
	<i>J.A. Gledhill</i>
Research Communications	
Studies of clothing and thermal comfort in Antarctica	11
	<i>J.M. Loots and M. Krüger</i>
The behaviour of foF2 at Sanae	16
	<i>M.R. and D.G. Torr</i>
A relationship between riometer absorption events at different latitudes near the auroral oval	22
	<i>G.J. Kühn</i>
OI and N ₂ ⁺ emissions observed at Sanae	24
	<i>M. R. and D. G. Torr</i>
The effects of a partial solar eclipse on the ionosphere at Sanae	27
	<i>M.R. and D.G. Torr</i>
Short Reports	
Gravimetric determination of ocean tidal effect on the Fimbul Ice-shelf, Princess Martha Coast, Queen Maud Land	30
	<i>W.H. Pollak and D. Sharwood</i>
Monthly mean temperature and sea-level pressure at Norway Station and Sanae since 1960	33
	<i>South African Weather Bureau</i>
Geomagnetic secular variations at the South African Antarctic Base, Sanae	34
	<i>A.M. van Wijk</i>
Letters to the Editor	
The glaciation of Marion Island	35
	<i>E.M. van Zinderen Bakker</i>
Notes and News	
The Geomagnetism and Aurora programme in Antarctica	36
Review of publication on Quaternary studies of the Antarctic	36
Review of monograph on the 1965/66 expedition to Marion and Prince Edward Islands	37
South African Scientific Committee for Antarctic Research	39
Members of SANAE 12	39
South African National Antarctic Programmes 1970/71	40