

- A.A. Balkema, 1971.
- Walton, D.W.H. Changes in standing crop and dry matter production in an *Acaena* community on South Georgia. In *Primary Production and Production Processes, Tundra Biome, Proceedings of the International Biological Programme, Tundra Biome Conference, Dublin, Ireland*, edited by L.C. Bliss & F.E. Wielgolaski, 185-190. Edmonton, University of Alberta, 1973.
- Walton, D.W.H., Green D.M. & Callaghan, T.V. An assessment of primary production in a sub-Antarctic grassland on South Georgia. *Brit. Antarct. Surv. Bull.*, Nos 41-42, 151-160, 1975.
- Walton, D.W.H. & Smith, R.I.L. The chemical composition of South Georgian vegetation. *Brit. Antarct. Surv. Bull.*, (in press).
- Webber, P.J. Tundra primary productivity. In *Arctic and Alpine Environments*, edited by J.D. Ives & R.G. Barry, 445-472. London, Methuen, 1974.
- Wielgolaski, F.E. Vegetation types and plant biomass in tundra. *Arctic and Alpine Research*, 4, 291-305, 1972.
- Wielgolaski, F.E. & Kjølvik, S. Mineral elements and energy of plants at Hardangervidda, Norway. In *Primary Production and Production Processes, Tundra Biome, Proceedings of the International Biological Programme Tundra Biome Conference, Dublin, Ireland*, edited by L.C. Bliss & F.E. Wielgolaski, 231-238. Edmonton, University of Alberta, 1973.
- Wielgolaski, F.E., Kjølvik, S. & Kallio, P. Mineral content of tundra and forest tundra plants in Fennoscandia. In *Fennoscandian Tundra Ecosystems. Part 1. Plants and Microorganisms*, edited by F.E. Wielgolaski, 316-332. Berlin, Springer-Verlag, 1975.

### South African Committee for Antarctic Research (SASCAR) 1977

- Chairman** Dr F.J. Hewitt  
Deputy President, CSIR and South African Permanent Representative on SCAR
- Secretary** Dr J.A. Brink  
National Scientific Programmes Unit  
CSIR, P.O. Box 395, Pretoria, 0001
- Members** Professor N.D. Clarence  
Vice Principal, University of Natal,  
King George V Ave., Durban, 4001
- Professor C.A. du Toit  
Department of Zoology, University of Stellenbosch, 7600
- Professor S.P. Jackson  
Director, Bernard Price Institute for Palaeontological Research, University of the Witwatersrand
- Dr D.M. Joubert  
Director, Transvaal Region of Agricultural Technical Services
- Mr D.G. Kingwill  
Director, Information and Research Services, CSIR, P.O. Box 395, Pretoria, 0001
- Mr A. Kriek  
Rand Mines Ltd, P.O. Box 62370, Marshalltown, 2107
- Mr B. Mills  
Deputy Secretary, Department of Transport, Private Bag X193, Pretoria, 0001
- Dr D.C. Neethling  
Director, Minerals Bureau, Private Bag X4, Braamfontein, 2017
- Mr A.J. Oxley  
Department of Foreign Affairs, Private Bag X141, Pretoria, 0001
- Mr G.H. Stander  
Deputy Director, Sea Fisheries Branch, Department of Industries, Private Bag, Seapoint, 8060
- Dr J.J. Taljaard  
Weather Bureau, Department of Transport, Private Bag X193, Pretoria, 0001
- Professor H.P. van der Schijff  
Dean, Faculty of Science, University of Pretoria, Pretoria, 0002
- Mr O.A. van der Westhuysen  
Head of Marine and Earth Sciences Unit, CSIR, P.O. Box 395, Pretoria, 0001

- Dr W.L. van Wyk  
Director, Geological Survey, Private Bag X112, Pretoria, 0001
- Mr G. A. Visser  
Department of Planning and the Environment, Private Bag X213, Pretoria, 0001

### Members of the 18th South African National Antarctic Expedition 1977-1978

- |  |                   |
|--|-------------------|
| <b>Leader</b>                                | G.J. le Roux      |
| <b>Radio Technician</b>                      | H.T. Bruwer       |
| <b>Communicator</b>                          | J.C. Burke        |
| <b>Medical Doctor</b>                        | W.J. Davis        |
| <b>Physicist (Ionosphere)</b>                | G.P. Evans        |
| <b>Diesel Mechanic</b>                       | H.B. Goldshagg    |
| <b>Physicist (Whistlers/Micropulsations)</b> | G.E. Hardman      |
| <b>Physicist (Cosmic Rays)</b>               | L. Joubert        |
| <b>Technician (Meteorology)</b>              | D.L. le Roux      |
| <b>Technician (Meteorology)</b>              | G. Myburgh        |
| <b>Geophysicist</b>                          | R.M. Pitman       |
| <b>Communicator</b>                          | F.A.W. Pohl       |
| <b>Electronics Technician</b>                | D. A. Raavé       |
| <b>Physicist (Whistlers/Seismology)</b>      | W.J. Rosewall     |
| <b>Senior Diesel Mechanic</b>                | H.A. van Deventer |
| <b>Senior Technician (Meteorology)</b>       | C.C. Whitcomb     |

### South African Members of SCAR Working Groups 1977

- |                                   |   |
|-----------------------------------|---|
| <b>Biology</b>                    | Professor E.M. van Zinderen Bakker<br>Institute for Environmental Sciences, University of the Orange Free State, P.O. Box 339, Bloemfontein, 9300 |
| <b>Cartography</b>                | Professor S.P. Jackson (interim)<br>Director, Bernard Price Institute for Palaeontological Research, University of the Witwatersrand              |
| <b>Geology</b>                    | Professor D. R. Hunter<br>Department of Geology, University of Natal, P.O. Box 375, Pietermaritzburg, 3200  |
| <b>Glaciology</b>                 | Mr L.G. Wolmarans<br>Geological Survey, Private Bag X112, Pretoria, 0001  |
| <b>Human Biology and Medicine</b> | Vacant  |
| <b>Communications</b>             | Mr I.H. Loyd<br>Weather Bureau, Department of Transport, Private Bag X193, Pretoria, 0001   |

<b>Logistics</b>	Mr J.G. Nel Department of Transport, Private Bag X193, Pretoria, 0001	<b>Magnetosphere Physics</b>	Professor A.D.M. Walker Department of Physics, University of Natal, King George V Ave., Durban, 4001
<b>Meteorology</b>	Dr J.J. Taljaard Weather Bureau, Department of Transport, Private Bag X193, Pretoria, 0001	<b>Mammal Research</b>	Professor J.D. Skinner Mammal Research Institute, University of Pretoria, Pretoria, 0002
<b>Occanography</b>	Mr F.P. Anderson NRIO, P.O. Box 320, Stellenbosch, 7600	<b>Meteorology</b>	Dr J.J. Taljaard Weather Bureau, Department of Transport, Private Bag X193, Pretoria, 0001
<b>Solid Earth Geophysics</b>	Dr L. E. Kent Geological Survey, Private Bag X112, Pretoria, 0001	<b>Ornithology</b>	Professor W.R. Siegfried Percy FitzPatrick Institute of African Ornithology, University of Cape Town, Rondebosch, 7700
<b>Upper Atmosphere Physics</b>	Mr R.W. Vice National Institute for Telecommunications Research, CSIR, P.O. Box 3718, Johannesburg, 2000	<b>Seismology</b>	Dr W.L. van Wyk Director, Geological Survey, Private Bag X112, Pretoria, 0001

### South African National Antarctic Research Programmes, 1977

<i>Programme</i>	<i>Director of Programme and Data Processing</i>
<b>Airglow</b>	Professor J.A. Gledhill Department of Physics, Rhodes University, P.O. Box 94, Grahamstown, 6140
<b>Aurora</b>	Dr P.R. Sutcliffe Magnetic Observatory of the CSIR, P.O. Box 32, Hermanus, 7200
<b>Bioenergetics and Mineral Cycling</b>	Professor E.M. van Zinderen Bakker Institute for Environmental Sciences, University of the Orange Free State, P.O. Box 339, Bloemfontein, 9300
<b>Cosmic Rays</b>	Professor P.H. Stoker Department of Physics, Potchefstroom University for CHE, Potchefstroom, 2520
<b>Cartography</b>	Professor S.P. Jackson Director, Bernard Price Institute for Palaeontological Research, University of the Witwatersrand
<b>Geology</b>	Professor D.R. Hunter Department of Geology, University of Natal, P.O. Box 375, Pietermaritzburg, 3200
<b>Geomagnetism</b>	Dr P.R. Sutcliffe Magnetic Observatory of the CSIR, P.O. Box 32, Hermanus, 7200
<b>Glaciology</b>	Dr W.L. van Wyk Director, Geological Survey, Private Bag X112, Pretoria, 0001
<b>Geophysics</b>	Dr W.L. van Wyk Director, Geological Survey, Private Bag X112, Pretoria, 0001
<b>Ionosphere</b>	Professor J.A. Gledhill Department of Physics, Rhodes University, P.O. Box 94, Grahamstown, 6140

### Members of the 34th South African Expedition to Marion Island 1977-1978

*April 1977-May 1978*

**Leader/Technician (Meteorology)**  
**Technician (Ionosphere)**  
**Senior Technician (Meteorology)**  
**Diesel Mechanic**  
**Radio Technician**  
**Technician (Meteorology)**  
**Technician (Meteorology)**  
**Male Nurse**

C.J. Grové  
C.J.W. Erasmus  
G.J. Luden  
R.M.P. Pettigrew  
G.I. Procter  
P. Schoeman  
V.L. Trollip  
P. van Schalkwyk

*November 1976-November 1977*

**Geomorphologist**  
**Biologist**  
**Biologist**  
**Biologist**

K.J. Hall  
H.J. Lindeboom  
D.C.J. Langley  
T.G. O'Connor

*November 1977-May 1978*

**Biologist**  
**Biologist**

H. Erasmus  
W. du Plessis

*March 1978-June 1978*

**Assistant Biologist**

A.J. van Collier

### Members of the 23rd South African Expedition to Gough Island 1977-1978

**Leader/Meteorologist**  
**Senior Biologist**  
**Communicator**  
**Senior Meteorologist**  
**Male Nurse**  
**Radio Technician**  
**Meteorologist**  
**Biologist**  
**Meteorologist**  
**Diesel Mechanic**

G.A.W. Goldschagg  
M.N. Bester  
P.R. de Beer  
J. Ferreira  
P.H. Fouché  
P.J. Retief  
F.O. Schutte  
A.F. Seabrook  
C.J. Theart  
A.J. van Onselen