# POLAR PUNDIT: REMINISCENCES ABOUT BRIAN BIRLEY ROBERTS

Edited by H.G.R. King and Ann Savours
With an Introduction by John Heap

For more than a quarter of a century the name of Brian Roberts was synonymous with all that was best and much that was innovative in British polar research. The present-day reputation for excellence enjoyed by the British Antarctic Survey and the Scott Polar Research Institute owes much to Roberts' foresight, clear thinking, and insistence on high standards.

By training an ornithologist, Roberts' interests were all-encompassing, ranging from the organization of polar information to international agreements on scientific nomenclature and place-names. As Head of the Foreign and Commonwealth Office's Polar Regions Section, Roberts demonstrated his diplomatic skills during the negotiations leading in 1959 to the signing of the Antarctic Treaty, in the drafting of which he played so active a role. Until the time of his death in 1978 he continued to be actively concerned with measures relating to the conservation of Antarctic wildlife and resources and the protection of the environment.

Polar pundit constitutes recollections of Brian Roberts in his numerous roles, both private and professional, by a cross-section of his colleagues and friends. Appropriately, the publication of this 140-page book coincides with the 75th anniversary of the founding of the Scott Polar Research Institute, to which Brian Roberts devoted so large a part of his life and genius.

Polar Publications

Polar Publications
Scott Polar Research Institute
University of Cambridge
Lensfield Road
Cambridge CB2 1ER
United Kingdom

Price: £10.00 (+ £1.00 postage and handling) \$U\$16.00 (+ \$1.50 sea, \$4.50 air)

## ARCTIC ANTHROPOLOGY

FREE!

#### RETURN THIS AD AND RECEIVE A FREE SAMPLE ISSUE.

Editor: Richard G. Condon Published: 2 / yr.

ISSN: 0066-6939

Devoted to the study of Old and New World northern cultures and peoples. Archaeology, ethnology, ethnohistory, linguistics, human biology and other related fields are represented.

#### Rates:

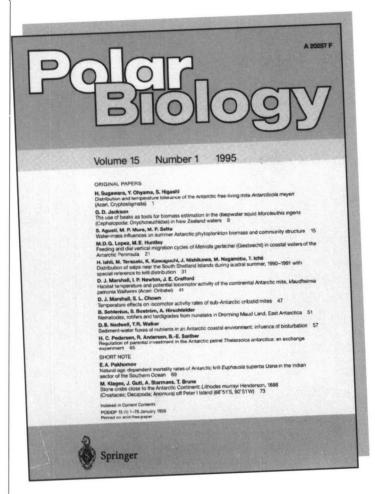
Individuals (must pre-pay): \$30 / yr.
Institutions: \$81 / yr.
Foreign postage: \$8 / yr.
Airmail: \$11 / yr.

We accept MasterCard and VISA. Canadian customers please remit 7% Goods and Services Tax.

Please write for a *free* back issue list:

Journal Division, University of Wisconsin Press,
114 North Murray Street, Madison, WI 53715 USA
Or call, 608-262-4952, FAX 608-262-7560

## A broad survey of polar ecosystems



**Polar Biology** is not only the focal point for scientists working in polar regions but also attracts the interest of those working in general biology, ecology, and physiology, as well as in oceanography and climatology related to polar life.

*Polar Biology* presents results of all kinds of studies in plants, animals and micro-organisms of marine, limnic and terrestrial habitats of Arctic and Antarctic regions.

Topics covered include:

- Life history
- Ecology of organisms and communities
- Morphology and taxonomy
- Distribution, abundance and biogeography
- Dynamics of populations
- Physiology of growth, metabolism and reproduction
- Behaviour and sensory physiology
- Ecosystem studies.

Managing Editor: G. Hempel

In cooperation with an international Editorial Board

ISSN 0722-4060

1995. Volume 15 (8 issues)

DM 1120,-\* plus carriage charges

\* suggested list price

Please send orders by:
Please send orders by:
Fax: (0)30/8207-301/448
Please send orders by:
Please send orders by



In EU countries the local VAT is effective

Springer-Verlag, P. O. Box 31 13 40, D-10643 Berlin, Germany

IMCA. 2401/MNTZ/V/I

#### Copying

Polar Record is registered with the Copyright Clearance Center, 222 Rosewood Drive, Danzers, MA 01923, USA. Organizations in the USA that are also registered with the CCC may copy material (beyond limits permitted by sections 107 and 108 of US copyright law) subject to payment to CCC of the per copy fee of \$11.00. This consent does not extend to multiple copies for promotional or commercial purposes. Code 0032-2474/95. Organizations authorized by the Copyright Licensing Agency may also copy material subject to the usual conditions. For all other use, permission should be sought from the Cambridge or the American Branch of Cambridge University Press (addresses below).

#### **Back issues**

For vols 1–23 inclusive apply to Bluntisham Books, Oak House, East Street, Bluntisham, Huntingdon PE17 3LS, UK. For vols 24 onward apply to Cambridge University Press, UK or USA.

#### **Advertising**

For details apply to the Editor or to the publishers.

#### **CAMBRIDGE UNIVERSITY PRESS**

Published by the Press Syndicate of the University of Cambridge
The Pitt Building, Trumpington Street, Cambridge CB2 1RP, UK
40 West 20th Street, New York, NY 10011-4211, USA
10 Stamford Road, Oakleigh, Melbourne 3166, Australia
Printed in Great Britain at the University Press, Cambridge.

### POLAR RECORD

VOLUME 31 NUMBER 177 APRIL 1995

#### CONTENTS

#### **ARTICLES**

Satellite remote sensing of polar snow and ice: present status and future directions. Robert Massom p 99 lce processes and growth history on Arctic and sub-Arctic lakes using ERS-1 SAR data. K. Morris, M.O. Jeffries, and W.F. Weeks p 115

Assessing trends in Arctic sea-ice distribution in the Barents and Kara seas using the Kosmos–Okean satellite series. Gennady I. Belchansky, Ilia N. Mordvintsev, Gregory K. Ovchinnikov, and David C. Douglas p 129 Sea-ice type classification from ERS-1 SAR data based on grey level and texture information. D.M. Smith, E.C. Barrett, and J.C. Scott p 135

Biomass and leaf-area index maps derived from SPOT images for Toolik Lake and Imnavait Creek areas, Alaska. Margaret M. Shippert, Donald A. Walker, Nancy A. Auerbach, and Brad E. Lewis p 147

Development of a sea-ice workstation for the automated monitoring of sea ice. Diane Boardman, David Darwin, Jolyon Martin, Neil McIntyre, and Ken Sullivan p 155

Comparative evaluation of ALMAZ, ERS-1, JERS-1, and Landsat-TM for discriminating wet tundra habitats. Gennady I. Belchansky, Gregory K. Ovchinnikov, and David C. Douglas p 161

NDVI, biomass, and landscape evolution of glaciated terrain in northern Alaska. D.A. Walker, N.A. Auerbach, and M.M. Shippert p 169

Characteristics of vegetation phenology over the Alaskan landscape using AVHRR time-series data. Carl J. Markon, Michael D. Fleming, and Emily F. Binnian p 179

Determination of actual snow-covered area using Landsat TM and digital elevation model data in Glacier National Park, Montana. Dorothy K. Hall, James L. Foster, Janet Y.L. Chien, and George A. Riggs p 191

Atmospheric temperature variability in the Arctic as revealed in a TOVS data record. Siri Jodha Singh Khalsa and Jeffrey R. Key p 199

Detection of polar stratospheric clouds over Antarctica using AVHRR images obtained at Palmer Station during August 1992. Oswaldo Garcia, Kathy L. Pagan, Patricia G. Foschi, Steven E. Gaines, and R. Stephen Hipskind p 211

Monitoring, classification, and characterization of interior Alaska forest using AIRSAR and ERS-1 SAR. C.L. Williams, K. McDonald, E. Rignot, L.A. Viereck, J.B. Way, and R. Zimmermann p 227

Remote sensing, a tool for reindeer range land management. Alfred Colpaert, Jouko Kumpula, and Mauri Nieminen p 235

Relating CO<sub>2</sub> fluxes to spectral vegetation indices in tundra landscapes: importance of footprint definition. A.S. Hope, J.B. Fleming, G. Vourlitis, D.A. Stow, W.C. Oechel, and T. Hack p 245

On the possibility of remotely sensing global dimethyl sulfide sea-to-air flux. Clara M. Jodwalis and Richard L. Benner p 251

A satellite-based map compared to a traditional vegetation map of Arctic vegetation in the Ny-Ålesund area, Svalbard. Sigmund Spjelkavik p 257

#### **SCAR BULLETIN No 117**

Twenty-third meeting of SCAR, Rome, Italy, 4–9 September 1994 p 271 Report of the XXIII SCAR Finance Committee p 282 Membership of the SCAR Executive Committee, September 1994 p 283 Chief Officers of SCAR Groups, September 1994 p 284



https://doi.org/10.1017/S0032247400013590 Published online by Cambridge University Press



0032-2474(199504)31:2;1-4