



POLAR RECORD

VOLUME 36 NUMBER 199 OCTOBER 2000

CAMBRIDGE
UNIVERSITY PRESS

Polar Record

Journal of the Scott Polar Research Institute, University of Cambridge.
Published by Cambridge University Press.

Editor: Dr BEAU RIFFENBURGH

Assistant Editor: Dr ELIZABETH CRUWYS

Editorial Advisors:

Professor WILLIAM BARR, University of Calgary
LAWSON W. BRIGHAM, University of Cambridge
Dr PETER D. CLARKSON, Scientific Committee on Antarctic Research
Professor JULIE CRUIKSHANK, University of British Columbia
Professor RICHARD C. DAVIS, University of Calgary
Dr GEOFFREY HATTERSLEY-SMITH
Professor MARTIN O. JEFFRIES, University of Alaska Fairbanks
Professor MARGARET E. JOHNSTON, Lakehead University
Dr Lorne K. KRIWOKEN, University of Tasmania
Dr RICHARD M. LAWS
Professor KEITH RICHARDS, University of Cambridge
Professor JAMES M. SAVELLE, McGill University
IAN R. STONE
Dr DAVID W.H. WALTON, British Antarctic Survey

Production:

AILSA MACQUEEN

© Scott Polar Research Institute 2000.

Polar Record (ISSN 0032-2474) is published four times yearly — in January, April, July, and October — the four issues making a volume. First published in January 1931, *Polar Record* appeared twice yearly until July 1954 and three times yearly until September 1987. Scholarly contributions are invited on virtually all subjects of polar interest. For information on contributions, see 'Instructions for authors,' in *Polar Record* 36 (196): 72–74, January 2000, or write The Editor, *Polar Record*, Scott Polar Research Institute, University of Cambridge, Lensfield Road, Cambridge CB2 1ER, UK. E-mail: bar10@cus.cam.ac.uk

Subscriptions

Orders, which must be accompanied by payment, should be sent to any bookseller or subscription agent, or direct to the publisher:

**Cambridge University Press
The Edinburgh Building
Shaftesbury Road
Cambridge CB2 2RU
UK**

or:

**40 West 20th Street
New York, NY 10011-4211
USA**

The subscription price of vol 36, 2000, including postage (excluding VAT), is: for individuals, £54.00 (US\$90.00 in USA, Canada, and Mexico), for institutions £90.00 (US\$150.00 in USA, Canada, and Mexico). Periodicals postage paid at New York, NY, and at additional mailing offices. Separate issues cost £25.00 (US\$41.00 in USA, Canada, and Mexico) plus postage. EU subscribers (outside the UK) who are not registered for VAT should add VAT at their country's rate. VAT registered subscribers should provide their VAT registration number. Japanese prices for institutions are available from Kinokuniya Company Ltd, PO Box 55, Chitose, Tokyo 156, Japan. Prices include delivery by air. POSTMASTER: send address changes in the USA, Canada, and Mexico to *Polar Record*, Cambridge University Press, 110 Midland Avenue, Port Chester, NY 10573-4930.

Claims for missing issues can be considered only if made immediately after receipt of the subsequent issue.

Information about *Polar Record* and all other Cambridge journals can be accessed via <http://www.cup.cam.ac.uk/> and in North America via <http://www.cup.org/>.

POLAR RECORD

VOLUME 36, NUMBER 199, OCTOBER 2000

Contents

- | | | |
|-------------------|-----|--|
| <i>COMMENTARY</i> | 289 | Environmental ethics on Antarctic ice
<i>Holmes Rolston III</i> |
| <i>ARTICLES</i> | 291 | The UN and Antarctica, 1999: the continuation of consensus
<i>Peter J. Beck</i> |
| | 297 | The non-marine invertebrate fauna of Deception Island (Maritime Antarctic): a baseline for a comprehensive biodiversity database
<i>R.H. Downie, P. Convey, S.J. McInnes, and P.J.A. Pugh</i> |
| | 305 | William Robertson's account of Benjamin Leigh Smith's second expedition to Franz Josef Land in <i>Eira</i>
<i>Tim Cromack and Beau Riffenburgh</i> |
| | 317 | First landings on Zavodovski Island, South Sandwich Islands, 1819
<i>William Barr</i> |
| | 323 | Censuses of penguin, blue-eyed shag, and southern giant petrel populations in the Antarctic Peninsula region, 1994–2000
<i>Ron Naveen, Steven C. Forrest, Rosemary G. Dagit, Louise K. Blight, Wayne Z. Trivelpiece, and Susan G. Trivelpiece</i> |
| | 335 | Winter navigation in the Northern Sea Route using RADARSAT data
<i>Vitali Yu. Alexandrov, Stein Sandven, Ola M. Johannessen, Lasse H. Pettersson, and Øyvind Dalen</i> |
| <i>NOTES</i> | 345 | Can Antarctic sea-ice extent be determined from whaling records?
<i>Stephen Vaughan</i> |
| | 347 | The cruise of MS <i>Rotterdam</i> in Antarctic waters, January 2000
<i>B. Stonehouse and Lawson W. Brigham</i> |
| <i>REVIEWS</i> | 350 | Meta Incognita: a discourse of discovery. Martin Frobisher's Arctic expeditions, 1576–1578, edited by Thomas Symons
<i>William Barr</i> |
| | 352 | Ringed seals in the North Atlantic, edited by Mads Peter Heide-Jørgensen and Christian Lydersen
<i>Bernie McConnell</i> |
| | 352 | Alaska and the U.S. Revenue Cutter Service 1867–1915, by Thurman R. Strobridge and Dennis L. Noble
<i>Ian R. Stone</i> |
| | 353 | The fifth man: Henry R. Bowers, by C.H. Lagerbom
<i>Harry King</i> |
| | 354 | Palaeo-Eskimo settlements in Scoresby Sund, northeast Greenland, by Hanne Tuborg and Birge Sandell
<i>Robert David</i> |
| | 355 | The search for the North West Passage, by Ann Savours
<i>W. Gillies Ross</i> |
| | 357 | The last continent: discovering Antarctica, by Bernard Stonehouse
<i>Peter W. Carey</i> |

	359	Fundamentals of glacier dynamics, by C.J. van der Veen <i>Bryn Hubbard</i>
	360	Neotraditionalism in the Russian north: indigenous people and the legacy of perestroika, edited by Aleksandr Pika <i>Petra Rethmann</i>
	361	Eskimos and explorers, by Wendell H. Oswalt <i>Ian R. Stone</i>
	362	Antarctic odyssey, by Graham Collier and Patricia Graham Collier <i>Herbert Dartnall</i>
	363	Brief Reviews
<i>OBITUARIES</i>	364	Sir Vivian Fuchs
	365	Robert Loring Christie
	367	Martin Guy White
<i>IN BRIEF</i>	368	A third century
	368	Evans' letter to be auctioned
<i>SCAR BULLETIN</i>	369	SCAR BULLETIN No 139
	369	Stations of SCAR Nations operating in the Antarctic, Winter 2000
	372	Address list of SCAR Executive Committee, Honorary Members, National Committees, Delegates and Working Groups
<i>COVER PICTURE</i>		Sir Vivian Fuchs, 1908–1999. Please see 'Obituaries,' page 364. Photograph courtesy of British Antarctic Survey.