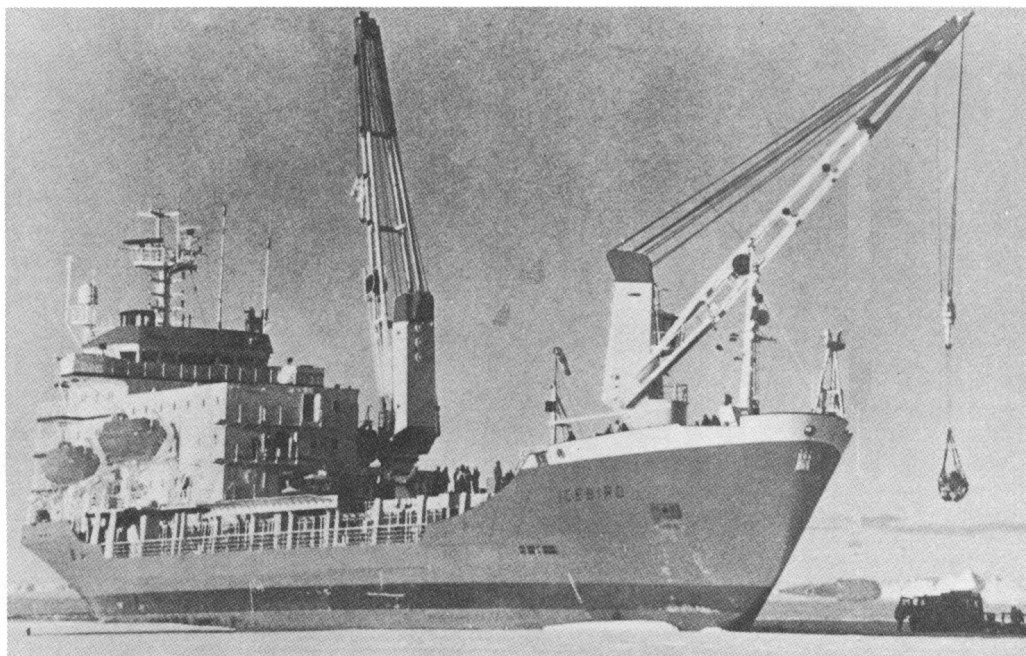


WESFARMERS has joined its sister company to form  
**SOUTH WEST CHARTERING**

continuing to specialize in Polar Chartering  
Over 40 years providing ice-strengthened ships for expeditions to the Arctic and  
Antarctic — for charter — for purchase  
Our service includes all other types of survey vessels



Contact: Polar Department, South West Chartering (UK) Limited, Suite Five, Lloyds Wharf, Mill  
Street, London SE5 2BA Tel 01 231 8565 Telex 886819 Fax 01 231 3712  
Member of the Baltic Exchange

## ANNOUNCEMENTS

*POLAR RECORD* BACK NUMBERS 1931-87 (1-147)  
are available from Bluntisham Books, Oak House, East  
Street, Bluntisham PE17 3LS, UK, Tel (1487) 840 449.  
Prices: Pre-1982 (1-129) £2.50 each; 1982-85  
(130-141) £5.00 each; 1986-87 (142-47) £10.00  
each. Postage extra.

---

## ADVERTISING IN *Polar Record*

Quarter page (118 x 81 mm) : £50.00  
(US\$90.00)  
Half page (240 x 81 mm or 118 x 165) :  
£70.00 (US\$130.00)  
Whole page (240 mm x 165 mm): £100.00  
(US\$180.00)  
Flier (A4 or A5): £100.00 (US\$180.00)  
Announcements: £2.00 per column line

VAT of 15% is payable on all UK orders.  
Please send payment or an official order form  
with your order. There are negotiable dis-  
counts for running the same advertisement in  
three successive issues. We make up adver-  
tisements and print fliers (from £20.00) and print  
fliers (from £50.00) by arrangement.

Contact the Editor, *Polar Record*,  
Scott Polar Research Institute,  
Lensfield Road, Cambridge  
CB2 1ER, UK.

# SOUTH LIGHT

## A Journey to Antarctica MICHAEL PARFIT

"One of the finest evocations of the Antarctic landscape of our time." Robert Fox, **Daily Telegraph**

"For the first time, I really understood the attraction of the 'awful place', as Scott called it, and could grasp the mystical quality of which so many explorers have written." Quentin Crewe, **Sunday Times**

£4.95 paperback      320pp      0 7475 0255 2

### ORDER FORM

Please send me \_\_\_\_\_ copy/ies of SOUTH LIGHT at £4.95 each (plus 50p p&p per copy).

I enclose a cheque for \_\_\_\_\_ made out to Bloomsbury Publishing Ltd

Name \_\_\_\_\_

Address \_\_\_\_\_

To: Bloomsbury Publishing Ltd, 2 Soho Square, London W1V 5DE

## Recent Polar and Glaciological Literature

\* has the largest circulation of any bibliography devoted to polar subjects

\* provides wide, *annotated* coverage of books, papers, reports and reviews on all aspects of polar life and science, both Arctic and Antarctic

\* can be mailed to you directly three times per year from the Scott Polar Research Institute, Lensfield Road, Cambridge CB2 1ER

**Annual subscription £15.00**

## SCOTT POLAR RESEARCH INSTITUTE UNIVERSITY OF CAMBRIDGE Opportunities in Graduate Studies

### M.Phil in Polar Studies

A one-year post-graduate course leading to the degree of Master of Philosophy, providing a broad background of polar knowledge and opportunity to study one topic in depth. Some 60 seminars cover the natural environment, peoples, history, resources, development and administration of the Arctic and Antarctic regions.

### Ph.D and M.Sc studies

Courses leading to Ph.D and M.Sc are available. Many programmes relate to current research areas within the Institute. Options include glaciology, polar oceanography, marine biology, geophysics, remote sensing, history, anthropology, native rights and northern affairs.

### Visiting scholars

The Institute provides facilities for advanced scholars wishing to pursue their own courses of study and research for periods of between a few weeks and one year.

### Facilities

The Institute's research facilities include the world's finest polar library, outstanding archival collections and specialized laboratories, including two cold rooms (-40°C).

### Cambridge University

The University now accommodates some 12,000 undergraduate and graduate students and has a long tradition of excellence in teaching and research.

FOR FURTHER PARTICULARS APPLY TO: THE DIRECTOR, SCOTT POLAR  
RESEARCH INSTITUTE, UNIVERSITY OF CAMBRIDGE  
CAMBRIDGE CB2 1ER UK

# **CAMBRIDGE**

---

## **STUDIES IN POLAR RESEARCH**

### **The Antarctic Treaty Regime**

Law, Environment and Resources

Edited by **GILLIAN D. TRIGGS**

Under the General Editorship of the British Institute of International and Comparative Law

Based on an international conference, this book examines the legal structure established by the Antarctic Treaty, and discusses the legal, political and environmental issues raised. With contributions from some of the leading workers in this field, *The Antarctic Treaty Regime* puts the important question of the international regulation of the Antarctic into an accessible modern framework.

'... the most valuable review of the Antarctic Treaty system I have seen. It should be used as a ready reference by anyone with an Antarctic interest.'

*NewScientist*

239 pp. 1987 0 521 32766 0 £30.00 net

### **Antarctica: The Next Decade**

Report of a Study Group Chaired by **SIR ANTHONY PARSONS**

In this survey, a study group, brought together by the David Davies Memorial Institute of International Studies, looks at the political and environmental questions raised by potentially conflicting interests in the Antarctic with ever growing international interest in the area as a source of important mineral resources.

Together with *The Antarctic Treaty Regime*, this forms an authoritative basis for the study of the Antarctic Treaty and its future.

'... both original and controversial. And anyone with an interest in this stark but beautiful continent would do well to examine (it).'

*Book Talks, BBC World Service*

176 pp. 1987 0 521 33181 1 £25.00 net

### **Antarctic Mineral Exploitation**

The Emerging Legal Framework

**FRANCISCO ORREGO VICUÑA**

In this book, Professor Orrego Vicuña examines in depth the legal framework – the Antarctic Treaty, sovereignty, jurisdiction – as it relates to the exploitation of Antarctic minerals. This timely survey will attract a wide readership among those with a professional interest in Antarctic affairs.

624 pp. 0 521 32383 5 £60.00 net

*For further information on all titles in the Studies in Polar Research series, write to Sally Seed at the address below*

**Cambridge University Press**

The Edinburgh Building, Shaftesbury Road, Cambridge CB2 2RU.

# CAMBRIDGE

## STUDIES IN POLAR RESEARCH

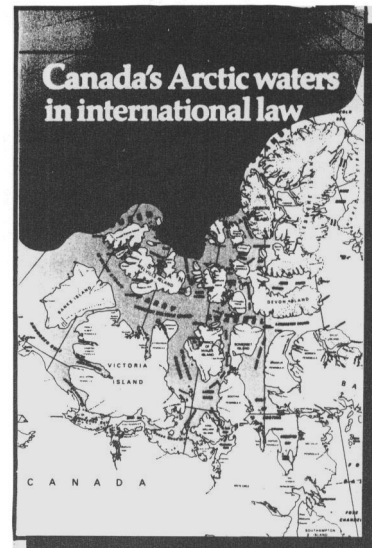
### Canada's Arctic Waters in International Law

DONAT PHARAND

The crossing of the Northwest Passage in August 1985 by a US icebreaker raised the whole question of Canada's sovereignty over the waters of the Arctic Archipelago. This book presents an examination of the international legal validity of Canada's claim by an in-depth study of three possible bases in international law: the sector theory, the doctrine of historic waters and the straight baseline system.

Professor Pharand is a recognised authority in this field and the book arises from the Canadian Northern Waters Project of the Dalhousie Ocean Studies Programme.

304 pp. 1988 0 521 32503 X £30.00 net



### Transit Management in the Northwest Passage

Problems and Prospects

Edited by C. LAMSON and D. VANDERZWAAG

The operation of a commercial shipping route through the Northwest Passage is fast becoming a practical possibility, and consideration of the problems which this will raise is urgently necessary. This book brings together a description of the environment, possible economic uses of the area, Arctic sea transport technology, the politico-administrative setting, and the designing of a transit management system, taking all these factors into account.

The book provides an up-to-date background against which important economic and environmental decisions will have to be taken.

336 pp. 1988 0 521 32065 8 £45.00 net

*Now in paperback*

### Hunters, Pastoralists and Ranchers

Reindeer Economies and their Transformations

TIM INGOLD

Drawing on ethnographic material from North America and Eurasia, Tim Ingold explains the causes and mechanisms of transformations between hunting, pastoralism and ranching, based on the same animal in the same environment. In developing a synthesis between ecological and economic approaches, theoretically rigorous concepts are introduced for the analysis of specialized animal-based economies, which cast the problem of "domestication" in an entirely new light.

'a major contribution ... essential reading for anyone concerned with economic and ecological anthropology, prehistory, or social evolution.' *Mankind*

*Cambridge Studies in Social Anthropology 28*

336 pp. 1988 0 521 35887 6 Paperback £10.95 net

*For further information on Cambridge titles in Polar Studies, write to Shelby Howe at the address below.*

**Cambridge University Press**

The Edinburgh Building, Shaftesbury Road, Cambridge CB2 2RU.

postage. POSTMASTER: send address changes in the USA and Canada to *Polar Record*, Cambridge University Press, 32 East Street, New York, NY 10022.

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

#### **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**

Prices appear in the advertisements section; for details apply to the Editor or to the publishers.

#### **Advice to contributors**

*Polar Record* publishes original articles (2000 to 8000 words) and notes (usually less than 2000 words) of current and historic polar interest. Manuscripts, maps and photographs are accepted on the understanding that they are original, do not infringe copyright, and are not currently being offered elsewhere. Receipt is acknowledged; manuscripts are submitted to referees and any rejected will normally be returned to the author within six to eight weeks. Where the subject matter is appropriate, the Editor is usually prepared to advise authors on ways of making their material acceptable.

#### **Presentation**

Typescripts should be double-spaced with 3 cm margins, on one side only of A4 or similar paper. Send two copies and keep one for reference. Give name, affiliation and address of each author on the title page, noting which author the Editor corresponds with. Follow the style of articles and notes in the most recent issue of *Polar Record*.

*Articles* should start with an abstract of 150-250 words and a table of major headings; secondary and tertiary headings are not listed. Indicate in margins where tables and illustrations fit. Footnotes are discouraged; places where they are considered essential are marked in text with a superscript number, and the footnotes are listed at the end before the References.

*Notes* are short articles, generally of less than 2000 words. They do not require an abstract or table of headings, but either the first or the final paragraph should summarize the content.

*References* (essential ones only, please) are cited in text; full references appear in the listing under References at the end; for forms of citations and references see the most recent issue of *Polar Record*. *Authors alone are responsible for the accuracy of their references*. References to privately printed or other unpublished reports and data are not accepted unless copies of the material are freely available from a named library or similar repository. *Tables* should be kept as simple as possible and typed on separate sheets. They will normally be fitted across the single- or double-column page, only exceptionally lengthwise.

*Illustrations*. Drawings, maps and diagrams must be of professional standard, with lettering and numbers pencilled in clearly. Authors may be charged for re-drawing if an illustration is inadequate. They should if possible allow for about one-third reduction in width to fit a column (7.8 cm) or page (16.4 cm). Photographs (black and white only) that add substantially to the material are welcome. Glossy prints with high contrast, about one-third oversize, generally reproduce well.

#### **Contributions on disc**

The Editor welcomes contributions on floppy discs. The most suitable format is Apple Macintosh 3.5" disc. Output from a wide variety of word processing packages can be accepted, but in case of doubt, a MacWrite-compatible document should be produced. Diagrams also can be transferred on Macintosh discs. Discs from other microcomputers may be acceptable if the text is in the form of an ASCII file, with no word processing codes. TAB characters are acceptable. Currently, *Polar Record* can accept discs from Acorn BBC and Torch microcomputers, Amstrad PCW series microcomputers and, less readily, IBM PC compatible machines (5.25" discs only). If in doubt, please consult the Editor.

**ISSN 0032-2474**

# POLAR RECORD

VOLUME 24 NUMBER 151 OCTOBER 1988

## CONTENTS

### ARTICLES

Non-Soviet shipping in the Northeast Passage, and the legal status of Proliv Vil'kitskogo. E. Franckx p 269

Historic sites in the Ross Dependency, Antarctica. D. L. Harrowfield p 277

A continent surrounded by advice: recent reports on Antarctica. P. J. Beck p 285

Morphological variation and wear in teeth of Canadian and Greenland Inuit. E. Cruwys p 293

Nathalie Fairbank's journey down the Yukon River in 1905. H. de Freitas p 299

Henry Wemyss Feilden, naturalist on HMS *Alert* 1875-76. T. Levere p 307

Antarctic Airways. C. Swithinbank p 313

Remote medical care for Antarctica: the BAS medical unit. J. N. Norman and R. M. Laws p 317

The introduced muskoxen of Poluostrov Taymyr. G. D. Yakushkin and W. Barr p 321

### NOTES

Reconstruction of an atmospheric temperature profile from a 166-year old polar mirage. W. G. Rees p 325.

12th Northern Libraries Colloquy, Boulder, Colorado, 5-9 June 1988. V. Galpin p 327

The Alaska Native Claims Settlement Act: an update. M. E. Thomas p 328

### CORRESPONDENCE

Cold baths to keep out the cold? I. R. Stone p 330

### REVIEWS

Griffith Taylor: antarctic scientist and pioneer geographer. M. Sanderson. *H. G. R. King* p 330. The little ice age. J. M. Grove. *J. C. Simões* p 331. The Greenpeace book of Antarctica: a new view of the seventh continent. J. May. *P. Speak* p 331. Antarctic mineral exploitation. F. Orrego Vicuña. *R. K. Headland* p 332. North to the Pole. W. Steger and P. Schurke. *H. G. R. King* p 332. Ice mechanics: risks to offshore structures. T. J. O. Sanderson. *P. Wadhams* p 332. Alaska exploration map series. P. S. Marshall (editor). *W. Gilles Ross* p 333. Marine science atlas of the Beaufort Sea; geology and geophysics. B. R. Pelletier (editor). *J. Spletstoesser* p 333. Brief reviews p 333

### IN BRIEF

Frontier crossing in Bering Strait; Korean Antarctic research; Automatic weather stations; Canadian post-secondary student assistance program; Fifth force recognized in Greenland ice sheet

### OBITUARY

Capt E. A. Macdonald; Sir Charles Fleming

### SCAR BULLETIN No 91

Recommendations of Working Groups: SCAR Working Group on Glaciology: meeting in Bremerhaven 6, 10 and 11 September 1987 p 337. SCAR Working Group on Solid Earth Geophysics: meeting on 30 August 1987 p 337. SCAR Working Groups on Geology and Solid Earth Geophysics: joint meeting 31 August 1987, Cambridge, UK p 338

SCAR Group of Specialists on Southern Ocean Ecology: meeting in Paris 27-29 May 1987 p 339

Stations operating in the Antarctic, Winter 1988 p 341

Amendment p 344

New SCAR publication p 344

### CAMBRIDGE UNIVERSITY PRESS

Published by the Press Syndicate of the University of Cambridge  
The Pitt Building, Trumpington Street, Cambridge CB2 1RP UK  
32 East 57th Street, New York NY 10022 USA  
10 Stamford Road, Oakleigh, Melbourne 3166 Australia

Printed in Great Britain at the University Press, Cambridge.