

# INTERNATIONAL LAW AND THE ANTARCTIC TREATY SYSTEM

**Sir Arthur Watts, KCMG, QC**

formerly The Legal Adviser, Foreign and Commonwealth Office, London

- \* An invaluable up-to-date survey of the legal framework for Antarctic activities, written by an author with direct practical experience of the Antarctic Treaty system.
- \* Essential for practitioners working within the system and for all interested in Antarctica's ever-growing significance in world affairs, especially the environment.

Reflecting the increase of activity in the area, the work examines the basic Antarctic Treaty of 1959 and the subsequent major additional treaties and regulatory measures to provide a clear and authoritative picture of the Antarctic legal system as a whole.

The author demonstrates how these legal arrangements make an important contribution to international law generally notwithstanding the unique characteristics that set Antarctica apart.

After a general introduction the book deals with the constitutional evolution of the Antarctic Treaty system, dispute settlement, territorial questions, the Antarctic seas, jurisdiction, enforcement and liability, non-militarisation and non-nuclearisation, resources, protection of the environment and the legal status of the Antarctic Treaty system.

A particularly useful feature of the book is the inclusion of the full texts of the five basic treaties of the Antarctic legal system.

483 pp.  
Price: Hardback £58 (US\$120)

Published October 1992  
ISBN 1 85701 007 8

# THE EFFECTIVENESS OF INTERNATIONAL ENVIRONMENTAL AGREEMENTS



IN OUR HANDS  
EARTH SUMMIT '92

## A CO-PUBLICATION WITH THE UNITED NATIONS CONFERENCE ON ENVIRONMENT AND DEVELOPMENT

This is the only work to bring together the final versions of the thirteen major research papers, commissioned for the United Nations Conference on Environment and Development (UNCED, Rio de Janeiro, June 1992), providing a detailed survey and analysis of the effectiveness of 124 existing international agreements and instruments to protect the environment.

The thirteen research papers cover:

General environmental concerns  
Nature conservation and terrestrial living resources  
Atmosphere and outer space  
Marine environment and marine pollution  
Marine living resources  
Transboundary freshwaters  
Hazardous substances

Nuclear safety  
Working environment  
Liability for environmental damage  
Environmental disputes  
Sample bilateral agreements  
Relationship with trade and development instruments

In addition the book contains the report by the Secretary-General of the Conference which sets the entire survey in context and summarizes the findings of the individual research papers. This section also contains the recommendations for future action on international legal instruments and mechanisms to be agreed at the Conference.

The book concludes with a reference section containing an annotated list of existing environmental agreements and instruments within each area of research, including current membership, source references and secretariat addresses.

548 pp.  
Price: Paperback £40 (US\$80)  
Hardback £65 (US\$130)

Published October 1992  
ISBN 1 85701 004 3  
ISBN 1 85701 003 5

Air Mail Postage £10 (US\$18) per volume.

Visa/Mastercard accepted.

Order from any bookshop or direct from

## GROTIUS PUBLICATIONS LIMITED

P.O. BOX 115, CAMBRIDGE CB3 9BP  
Tel: (44) 223 323410 Fax: (44) 223 311032



# **Keele University/University of Alberta Summer School**

## **ENVIRONMENTAL ISSUES IN THE ARCTIC**

### **A Two-Week Field Course to Northern Canada**

**25 July — 9 August 1993**

#### **Who is this trip aimed at?**

Enthusiastic members of the public, senior undergraduates, and postgraduate students who have an interest in the living environment (environmental science, biology ornithology, etc.). No previous experience necessary! Participants are being recruited in both Britain and Canada.

#### **Who is involved?**

We will be based at Inuvik in NW Canada (68°N) near to the tree-line, with visits to Wood Buffalo National Park (68°N, the world's largest forested National Park) and to Tuktoyaktuk on the Arctic Ocean coast. In addition to seeing vast areas of natural forest, tundra, pingos, permafrost, and other northern features, there will be talks on environmental aspects of the north (from botany to oil exploration and the future of native peoples) and the chance to spend time on individual study of a topic of interest. A Certificate of Achievement will be provided to all participants. Appropriate course credit will be given to students if this is formally arranged with their institution.

#### **Who is running the trip?**

Dr Ross Wein, Dept Forest Science, University of Alberta, Canada

Dr Bernard Stonehouse, Scott Polar Research Institute, University of Cambridge, UK

Dr Peter Thomas, Dept Biological Sciences, Keele University, UK

#### **What is the cost?**

From the UK the cost will be c. £2543, including return flight from Britain (c. £2058 if making your own way to Edmonton). This includes all fares, accomodation, full board, and insurance. The final cost may be lower. Advice can be offered on potential sources of funding. Arrangements can be made for you to extend your stay.

#### **How can I join?**

Further information and application forms can be obtained from Anne Stephens, Field Studies Council Overseas, Montford Bridge, Shrewsbury SY4 1HW, UK, Tel: (0743) 850164, Fax: (0743) 850178; Dr Peter A. Thomas, Department of Biological Sciences, Keele University, Staffs ST5 5BG, UK, Tel: (0782) 621111 ext 7771, Fax: (0782) 613847; or Dr Ross Wein, Dept Forest Science, University of Alberta, Edmonton T6G 2H1, Canada, Tel: (403) 492-4413, Fax: (403) 492-4323.

**CAMBRIDGE**

**A History of Antarctic Science**

G. E. FOGG

Foreword by MARGARET THATCHER

This book shows how different disciplines have developed alongside each other to produce a view of the whole environment which is becoming of immense value at the present time when global pollution threatens. It will provide essential information to all those concerned with the conservation and politics of this fascinating continent, as well as being of general interest to historians of science.

£55.00 net HB 0 521 36113 3 520 pp. 1992  
*Studies in Polar Research*

*Now in paperback*

**The Frozen Earth**

Fundamentals of Geocryology

PETER J. WILLIAMS and MICHAEL W. SMITH

'... the book has successfully brought together a wide body of information from several different related fields of endeavour, to produce a good overview of the fundamentals of geocryology.' *Canadian Geotechnical Journal*

£19.95 net PB 0 521 42423 2 324 pp. 1991  
*Studies in Polar Research*

**Geological Evolution  
of Antarctica**

M. R. A. THOMSON, J. A. CRAME  
and J. W. THOMSON

A collection of papers presented at the Fifth International Symposium on Antarctic Earth Sciences. Contributors were invited to address problems related to the tectonic evolution of the Antarctic crust and the palaeoenvironmental evolution of Antarctica since the Late Mesozoic.

£55.00 net HB 0 521 37266 6 736 pp. 1991  
*World and Regional Geology 1*

For further information please contact  
Science Publicity at the address below.  
To order any Cambridge book call our 24 hour  
ordering service on 0223 325970.



**CAMBRIDGE  
UNIVERSITY PRESS**

The Edinburgh Building, Cambridge CB2 2RU, UK

### 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 with whom the Editor should correspond. 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 Microsoft Word-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 IBM PC compatible machines (3.5" discs). If in doubt, please consult the Editor.

### Fax

Contributors and other correspondents are welcome to contact the Editor via Fax (UK) 223 336549

**ISSN 0032-2474**

### 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, Victoria 3166 Australia

Printed in Great Britain at the University Press, Cambridge.

# POLAR RECORD

VOLUME 29 NUMBER 168 JANUARY 1993

## CONTENTS

### ARTICLES

- Bowhead whale bones and Thule Eskimo subsistence–settlement patterns in the central Canadian Arctic. A.P. McCartney and J.M. Savelle p 1
- Habitat preferences of polar bears in the western Canadian Arctic in late winter and spring. I. Stirling, D. Andriashek, and W. Calvert p 13
- A comparative analysis of the settlements of Novoye Chaplino and Gambell. D.G. Callaway and A. Pilyasov p 25
- The future of Antarctic scientific research. D.J. Drewry p 37
- Comparative zinc and lead toxicity tests with Arctic marine invertebrates and implications for toxicant discharges. P.M. Chapman and C. McPherson p 45
- Aerial survey of walrus haul-out sites in west Spitsbergen and Møffen. E. Cruwys and D. Weinstein p 55

### NOTES

- Polar treaties and committees. R.K. Headland p 59
- 'The Northern Sea Route Project. T. Armstrong and L.W. Brigham p 60
- Opening the Northern Sea Route. L.W. Brigham p 60
- Bellingshausen's house in Saaremaa, Estonia. I.R. Stone p 61

### REVIEWS

- The log of the *Scotia* by William Speirs Bruce. P. Speak (editor). W. Barr p 63. Messages from Earth: nature and the human prospect in Alaska. R. Weeden. M. Nuttall p 64. The land of feast and famine. H. Ingstad. I.R. Stone p 65. Marine management in disputed areas: the case of the Barents Sea. R. Churchill and G. Ulfstein. E. Franckx p 65. Brothers: the politics of violence among the Sekani of northern British Columbia. G. Lanoue. D. Anderson p 66. Sea mammals and oil: confronting the risks. J.R. Geraci and D.J. St Aubin (editors). E. Cruwys p 67. Global environmental change: understanding the human dimension. P.C. Stern, O.R. Young, and D. Druckman (editors). B. Stonehouse p 68. The history of Siberia from Russian conquest to revolution. A. Wood (editor). T. Armstrong p 68. The petrels: their ecology and breeding systems. J. Warham. M. de L. Brooke p 69. Wildlife management and subsistence hunting in Alaska. H.P. Huntington. M. Nuttall p 70. Out in the cold: the legacy of Canada's Inuit relocation experiment in the high Arctic. A. Marcus. D. Riches p 71. The Soviet Arctic. P. Horensma. P. Vitebsky p 71. Catchers and corvettes: the steam whaler in peace and war. J.H. Harland. B. Stonehouse p 72. Darwin's desolate islands. P. Armstrong. R.K. Headland p 72. Brief reviews p 73

### CORRESPONDENCE

- The Husvik–Stromness debate. M.J. Gilkes p 75

### IN BRIEF

- New Director for SPRI. Polar Medals awarded. Northern science honours. Canadian Arctic study tour. Australia's huskies p 75

### OBITUARY

- Frederick John Jacka p 76. Richard Blackburn Black p 77. Sir Edwin Porter Arrowsmith p 77

### 1992 MANUSCRIPT REFEREES

- Manuscript referees p 78

### SCAR BULLETIN No 108

- Twenty-second meeting of SCAR, San Carlos de Bariloche, Argentina, 15–19 June 1992 p 79
- Council of Managers of National Antarctic Programmes (COMNAP), Report of Meeting, Bariloche, Argentina, 8–12 June 1992 p 88
- Standing Committee on Antarctic Logistics and Operations (SCALOP), Report of Meeting, Bariloche, Argentina, 8–12 June 1992 p 89

**CAMBRIDGE**  
UNIVERSITY PRESS



0032-2474(199301)29:168;1-Q