

CAMBRIDGE

JOURNALS

# British Journal for the History of Science

Published for the British Society for the History of Science

## Editor

Jon Agar, *University College London, UK*

This leading international journal publishes scholarly papers and review articles on all aspects of the history of science. History of science is interpreted widely to include medicine, technology and social studies of science. *BJHS* papers make important and lively contributions to scholarship and the journal has been an essential library resource for more than thirty years. It is also used extensively by historians and scholars in related fields. A substantial book review section is a central feature. There are four issues a year, comprising an annual volume of over 600 pages.



## *British Journal for the History of Science*

is available online at:  
<http://journals.cambridge.org/bjh>

## To subscribe contact Customer Services

### Americas:

Phone +1 (845) 353 7500

Fax +1 (845) 353 4141

Email

[subscriptions\\_newyork@cambridge.org](mailto:subscriptions_newyork@cambridge.org)

### Rest of world:

Phone +44 (0)1223 326070

Fax +44 (0)1223 325150

Email [journals@cambridge.org](mailto:journals@cambridge.org)

## Free email alerts

Keep up-to-date with new material – sign up at

[journals.cambridge.org/register](http://journals.cambridge.org/register)

For free online content visit:  
<http://journals.cambridge.org/bjh>



CAMBRIDGE  
UNIVERSITY PRESS

CAMBRIDGE

JOURNALS

# 150th Anniversary

## Geological Magazine

### Editors

Mark Allen, University of Durham, UK  
Graham E. Budd, University of Uppsala, Sweden  
Philip Leat, British Antarctic Survey, UK  
Andy Whitham, CASP, University of Cambridge, UK

*Geological Magazine*, established in 1864, is one of the oldest and best-known periodicals in the Earth Sciences. Its worldwide circulation, broad scope and high production values keep the journal at the forefront of the field. It publishes original papers, review articles, rapid communications and discussions about all aspects of the geosciences. It covers petrology, geochemistry, palaeontology, sedimentology, stratigraphy, structural geology, geophysics, and geomorphology, and it includes contributions on volcanology, marine geology, glaciology, palaeoclimatology, palaeoceanography, geochronology, biostratigraphy, geohazards and Earth history, providing a niche for interdisciplinary papers on regional geology and Earth history.

### Price information

is available at: <http://journals.cambridge.org/geo>

### Free email alerts

Keep up-to-date with new material – sign up at  
<http://journals.cambridge.org/geo-alerts>



*Geological Magazine*  
is available online at:  
<http://journals.cambridge.org/geo>

### To subscribe contact Customer Services

**in Cambridge:**  
Phone +44 (0)1223 326070  
Fax +44 (0)1223 325150  
Email [journals@cambridge.org](mailto:journals@cambridge.org)

**in New York:**  
Phone +1 (845) 353 7500  
Fax +1 (845) 353 4141  
Email  
[subscriptions\\_newyork@cambridge.org](mailto:subscriptions_newyork@cambridge.org)

For free online content visit:  
<http://journals.cambridge.org/geo>



CAMBRIDGE

JOURNALS

# The Journal of Navigation

Published on behalf of  
The Royal Institute of Navigation

## Editors

Nick Randall, MSc FRIN, The Royal Institute of Navigation, UK  
Tony Fyler, The Royal Institute of Navigation, UK

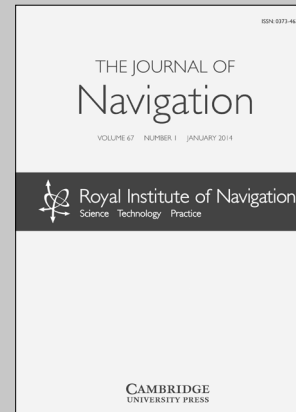
*The Journal of Navigation* contains original papers on the science of navigation by man and animals over land and sea and through air and space, including a selection of papers presented at meetings of the Institute and other organisations associated with navigation. Papers cover every aspect of navigation, from the highly technical to the descriptive and historical. Subjects include electronics, astronomy, mathematics, cartography, command and control, psychology and zoology, operational research, risk analysis, theoretical physics, operation in hostile environments, instrumentation, ergonomics, financial planning and law. The journal also publishes selected papers and reports from the Institute's special interest groups. Contributions come from all parts of the world.

## Price information

is available at: <http://journals.cambridge.org/nav>

## Free email alerts

Keep up-to-date with new material – sign up at  
<http://journals.cambridge.org/nav-alerts>



*The Journal of Navigation*  
is available online at:  
<http://journals.cambridge.org/nav>

## To subscribe contact Customer Services

**in Cambridge:**  
Phone +44 (0)1223 326070  
Fax +44 (0)1223 325150  
Email [journals@cambridge.org](mailto:journals@cambridge.org)

**in New York:**  
Phone +1 (845) 353 7500  
Fax +1 (845) 353 4141  
Email  
[subscriptions\\_newyork@cambridge.org](mailto:subscriptions_newyork@cambridge.org)

For free online content visit:  
<http://journals.cambridge.org/nav>



CAMBRIDGE  
UNIVERSITY PRESS

# Go Mobile

CJO Mobile (CJOm) is a streamlined  
Cambridge Journals Online (CJO)  
for smartphones and other  
small mobile devices



- Use CJOm to access all journal content including *FirstView* articles which are published online ahead of print
- Access quickly and easily thanks to simplified design and low resolution images
- Register for content alerts or save searches and articles – they will be available on both CJO and CJOm
- Your device will be detected and automatically directed to CJOm via: [journals.cambridge.org](http://journals.cambridge.org)



**CAMBRIDGE**  
UNIVERSITY PRESS

# POLAR RECORD

A Journal of Arctic and Antarctic Research  
Journal of the Scott Polar Research Institute, University of Cambridge

VOLUME 50 NUMBER 255 OCTOBER 2014

## CONTENTS

### NORTHERN FISHERIES SPECIAL ISSUE

#### EDITORIAL

Ian R Stone p 337

#### ARTICLES

Northern fisheries: managing income, nutrition and cultural values. Maria Nakhshina and Franz Krause p 338

'We ate lots of fish back then': the forgotten importance of fishing in Gwich'in country. Robert P. Wishart p 343

Fishing with empathy: knowing fish and catching them on the Kemi River in Finnish Lapland. Franz Krause p 354

Traditional foods, corporate controls: networks of household access to key marine species in southern

Bering Sea villages. Katherine Reedy and Herbert Maschner p 364

Fishery in 'free spaces': non-compliance with fishery regulations in a northern Baikal Evenki village.

Vladimir Nikolaevich Davydov p 379

Who defines the need for fishery reform? Participants, discourses and networks in the reform of the

Greenland fishery. Rikke Becker Jacobsen and Jesper Raakjær p 391

Fishing for community and culture: the value of fisheries in rural Alaska. Davin Holen p 403

In alliance with a nocturnal landscape: memory and water law in the north Baikal, Siberia. Veronika V. Simonova p 414

When fishing means resilience: the evolution of small boat fishing practices in Iceland since 1990 and the new

development of longline fishing. Emilie Mariat-Roy p 421

Quota disputes and subsistence whaling in Qeqertarsuaq. Pelle Tejsner p 430

Fluid subsistences: towards a better understanding of northern livelihoods. Marianne Elisabeth Lien p 440

#### ONLINE ONLY REVIEWS

The following reviews are available in the online version of this issue at [www.journals.cambridge.org/pol](http://www.journals.cambridge.org/pol)

Vanishing ice: alpine and polar landscapes in art, 1775–2012. Barbara C. Matilsky. *Tuija Hautala-Hirvioja*

Antarctic futures: human engagement with the Antarctic environment. Tina Tin, Daniela Liggett, Patrick T. Maher,

and Machiel Lamers. *Frigga Kruse*

The white planet: the evolution and future of our frozen world. Jean Jouzel, Claude Lorius and

Dominique Reynaud. *Sébastien Duyck*

Polar geopolitics? Knowledges, resources and legal regimes. Richard C. Powell and Klaus Dodds. *Nikolas Sellheim*

The law of the sea and the polar regions. Erik J. Molenaar, Alex G. Oude Elferink and Donal R. Rothwell. *Nikolas Sellheim*

Lost in the mists. Leslie Russel Blake: Mawson's cartographer and hero of Pozières. Herbert J.G. Dartnall. *Anna Lucas*

#### ONLINE ONLY OBITUARIES

The following obituaries are available in the online version of this issue at [www.journals.cambridge.org/pol](http://www.journals.cambridge.org/pol)

Sir Ian Gourlay

Charles Winthrop Molesworth Swithinbank 1926–2014

#### COVER PHOTO

Ice-fishing outside the village of Kuzomen' (66°17'N, 36°52'E) on the river Varzuga, near the White Sea coast, in the northwest of Russia. Villagers start fishing for Arctic rainbow smelt (*Osmerus mordax dentex*) as soon as the river freezes and remain on the ice until it is too thin in mid-spring. Unemployment is high and their leisure sphere is very limited, so fishing for smelt has become a favourite pastime and a means of supplementing income.

The daily catch varies greatly: one day on the ice can bring a few fish whilst on another day a few hours can yield a healthy 20 kg.

Part of the catch is used for private consumption: eaten fresh or salted and dried. Many people, however, sell most of their catch: to local businessmen and various incomers such as urbanites who come for ice-fishing, or to tourists. In 2014, a kilogram of smelt could be sold for up to £20 dried and £4 fresh. Local shops are also willing to buy villagers' catch albeit at a lower price.

Dried smelt is regarded a rare delicacy and local people often send it to relatives and give it away as a gift to visiting friends and family. Smelt is a token fish for Kuzomen' in winter as it makes villagers of all ages come out on the ice and engage in an activity that makes business a pleasure.

Photo taken by Maria Nakhshina in March 2007. To learn more about fishing on the White Sea coast, see references to Nakhshina 2012 in the current issue.

#### Cambridge Journals Online

For further information about this journal please

go to the journal website at:

[journals.cambridge.org/pol](http://journals.cambridge.org/pol)



MIX  
Paper from  
responsible sources  
FSC® C007785

CAMBRIDGE  
UNIVERSITY PRESS