

# ANTARCTIC Science



VOLUME 28 NO 1 FEBRUARY 2016

ISSN 0954 1020

CAMBRIDGE UNIVERSITY PRESS

## ANTARCTIC Science

### **EDITORS**

David W.H. Walton *Life Sciences* 

Walker O Smith

Marine Sciences

Laurie Padman

Physical Oceanography and Glaciology

Andrew Monaghan Atmospheric Sciences

Timothy Naish

Earth Sciences

### MANAGING EDITOR

Sharon Cooke

### **EDITORIAL OFFICE**

British Antarctic Survey (NERC) High Cross, Madingley Road, Cambridge CB3 0ET, UK. antarctic.science@bas.ac.uk

COVER

Blood Falls, Taylor Glacier, McMurdo Dry Valleys. Blood Falls results from a discharge of iron-rich, saline liquid that percolates from a briny subglacial pool inside the glacier. The liquid oxidizes rapidly at the surface, giving the ice its distinctive bloodstained coloration. Photo: Peter Rejcek, NSF.

## **EDITORIAL ADVISORY BOARD**

D. Barnes, British Antarctic Survey, UK

M. Brix, Ruhr-Universität Bochum, Germany

D. Cantrill, National Herbarium of Victoria, Australia

Y. Cherel, Centre d'Etudes Biologiques de Chizé, France

S.L. Chown, University of Stellenbosch, South Africa

J.T. Eastman, Ohio University, USA

F. Florindo, Istituto Nazionale di Geofisica e Vulcanologia, Italy

C. Fogwill, University of Exeter, UK

L. Gimeno, Universidad de Vigo, Spain

D. Gore, Macquarie University, Australia

E. Hofmann, Old Dominion University, USA

C. Howard-Williams, NIWAR, New Zealand

D.R. Marchant, Boston University, USA

S.D. Matheos, Universidad Nacional de La Plata, Argentina

R. Muench, Earth & Space Research, USA

B. Njåstad, Norwegian Polar Institute, Norway

F. Pattyn, Vrije University Brussels, Belgium

P. Ryan, University of Cape Town, South Africa

E. Surinach, Universitat de Barcelona, Spain

Editorial Policy. Antarctic Science provides a focus for many of the interdisciplinary interests that characterize Antarctic studies. The journal includes both synthesis and data papers, opinion papers, short notes on technical developments and field work, an editorial and book reviews. Antarctic Science is a journal that is interesting, original and topical yet rigorous in its treatment of primary scientific data. There is no maximum page length for scientific papers. Authors are required to follow the style set out in 'Instructions for Contributors' accessible either as a pdf at journals.cambridge.org/ans or through <a href="http://mc.manuscriptcentral.com/cup/antsci">http://mc.manuscriptcentral.com/cup/antsci</a> where all manuscripts must be submitted.

Ownership. Antarctic Science is owned by the charitable company Antarctic Science Ltd (Directors: J.R. Dudeney, J.E. Francis, K. Hendry, T. Jickells, M.R.A. Thomson, P.A. Tyler, D.W.H. Walton) Registered Charity no: 1090581. Registered Office: Antarctic Science Ltd, Mills & Reeve, 112 Hills Road, Cambridge CB2 1BH.

**Subscriptions.** Antarctic Science ISSN 0954-1020, is published bimonthly in February, April, June, August, October and December, six parts form a volume, by Cambridge University Press, University Printing House, Shaftesbury Road, Cambridge CB2 8BS, UK/Cambridge University Press, 32 Avenue of the Americas, New York, N.Y. 10013–2473. The subscription

price of volume 28 (2016) is £551 net (USA, Canada and Mexico US\$1071) for institutions electronic only. Single parts cost £106 (USA, Canada and Mexico US\$205) plus postage, unless purchased in bulk. Orders, which must be accompanied by payment, may be sent to the bookseller, subscription agent or direct to the publisher: Cambridge University Press, Journals Fulfillment Department, UPH, Shaftesbury Road, Cambridge CB2 8BS, UK; or in the USA, Canada and Mexico: Cambridge University Press, Journals Fulfillment Department, 100 Brook Hill Drive, West Nyack, New York 10994-2133. 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.

POSTMASTER: Send address changes to Antarctic Science, Cambridge University Press, 100 Brook Hill Drive, West Nyack, N.Y. 10004–2133.

For further information on *Antarctic Science* or other Press titles access journals.cambridge.org © Antarctic Science Ltd 2016