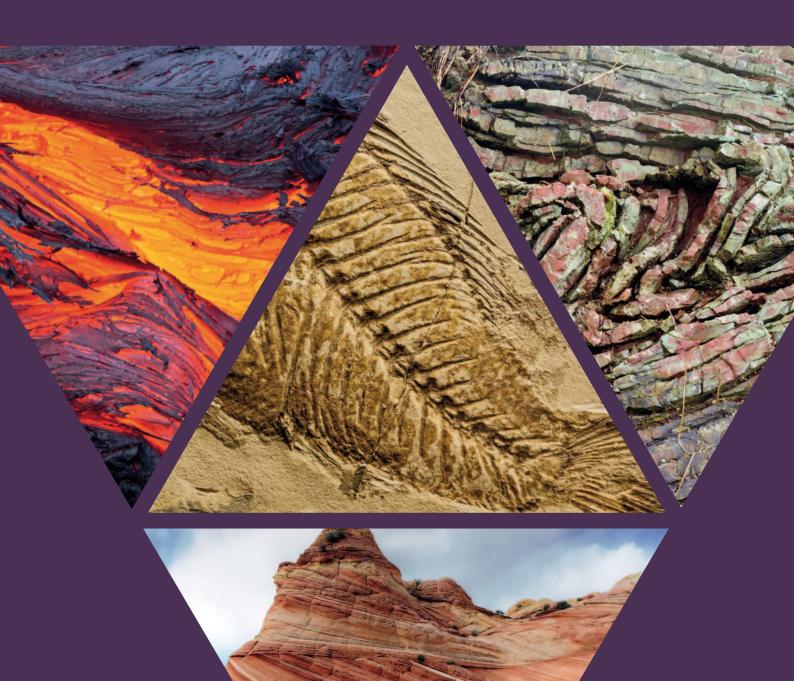
GEOLOGICAL MAGAZINE Volume 156 Issue 10

October 2019

ISSN: 0016-7568

CAMBRIDGE



https://doi.org/10.1017/S0016756819001195 Published online by Cambridge University Press

GEOLOGICAL MAGAZINE

EDITOR-IN-CHIEF

Professor Peter Clift Department of Geology and Geophysics, Louisiana State University, Baton Rouge, LA 70803, USA pclift@lsu.edu

EXECUTIVE EDITORS

Dr Kathryn Goodenough British Geological Survey, The Lyell Centre, Research Avenue South, Edinburgh EH14 4AP, UK kmgo@bgs.ac.uk

Dr Stephen M. Hubbard University of Calgary, Department of Geosciences, Calgary, Alberta, Canada shubbard@ucalgary.ca **Professor Olivier Lacombe** *University Pierre et Marie Curie,* 4 *Place Jussieu, 75005 Paris, France olivier.lacombe@upmc.fr*

Dr Bas van de Schootbrugge Department of Earth Sciences, Utrecht University, Princetonlaan 8A, 3584 CB Utrecht, The Netherlands

B.vanderSchootbrugge@uu.nl

BOOK REVIEW EDITOR

Please contact the Editorial Office at geolmag@cambridge.org

EDITORIAL BOARD

Dr Antonio Álvarez-Valero University of Salamanca, Spain Dr Susanne Buiter University of Oslo, Norway

Dr Stephen Brusatte University of Edinburgh, UK

Professor Alan Collins University of Adelaide, Australia

Professor Yildirim Dilek Miami University, USA Professor Victoria Ershova Saint Petersburg State University

Professor Victoria Ershova Saint Petersburg State University, Russian Federation

Dr Svetoslav Georgiev Colorado State University, USA Dr Jacqueline Halpin University of Tasmania, Australia Professor Xian-Hua Li Institute of Geology and Geophysics CAS. China

Dr Guido Meinhold Keele University, UK

Dr Sarbani Patranabis-Deb Indian Statistical Institute (ISI), Kolkata, India

Professor Renata Schmitt Universidade Federal do Rio de Janeiro, Brazil

Dr Holly Stein Colorado State University, USA; CEED, University of Oslo, Norway

Dr Hans-Dieter Sues Smithsonian National Museum of Natural History, USA

Dr Shiming Wan Institute of Oceanology, Chinese Academy of Sciences, China

Professor Yongdong Wang Nanjing Institute of Geology and Palaeontology, Chinese Academy of Sciences, China

The Geological Magazine was originally established in 1864 and has been published continuously ever since. It covers the whole field of earth sciences, has a worldwide readership and has a particular strength in providing a niche for interdisciplinary papers and papers that would be of interest to geologists from many different specialities. Papers of any length are considered, provided that the length is justifiable.

The *Magazine* publishes both original and review articles, rapid communications, discussions of papers which have already appeared in the *Magazine*, book reviews and a list of new publications.

There are no page charges for papers published in the *Magazine*. © Cambridge University Press 2019

Internet Access

This journal can be found online at https://www.cambridge.org/geo. *Geological Magazine* (ISSN 0016-7568). Twelve parts form a volume in 2019.

The subscription price (excluding VAT) of volume 156, 2019, which includes print and electronic access, is £1003 (US \$1706 in USA, Canada and Mexico). The electronic-only price available to institutional subscribers is £780 (US \$1420 in USA, Canada and Mexico). Single parts are £164 net (US \$279 in USA, Canada and Mexico) plus postage. Prices include delivery by air where appropriate. 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 University Printing House, Shaftesbury Road, Cambridge CB2 8BS. Subscriptions in the USA, Canada and Mexico should be sent to Cambridge University Press, Journals Fulfillment Department, One Liberty Plaza, New York, NY 10006. 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, P.O. Box 55, Chitose, Tokyo 156, Japan. Periodicals postage paid at New York, NY, and at additional mailing offices. POSTMASTER: send address changes in USA, Canada and Mexico to Geological Magazine, Cambridge University Press, One Liberty Plaza, New York, NY 10006, USA.

Copying: This journal is registered with the Copyright Clearance Center, 222 Rosewood Drive, Danvers, Mass. 01923, USA. Organizations in the USA who are also registered with C.C.C. may therefore copy material (beyond the limits permitted by sections 107 and 108 of US copyright law) subject to payment to C.C.C. This consent does not extend to multiple copying for promotional or commercial purposes.

Organizations authorized by the Copyright Licensing Agency may also copy material subject to the usual conditions.

For all other use, permission should be sought from Cambridge or the American Branch of Cambridge University Press.

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

Advertising: Details of advertising in Geological Magazine may be obtained from the publisher.

This journal issue has been printed on FSC-certified paper and cover board. FSC is an independent, non-governmental, not-for-profit organization established to promote the responsible management of the world's forests. Please see www.fsc.org for information.