



Volume 377, 1 July 2016

CONTENTS

**MARINE  
GEOLOGY**  
INTERNATIONAL JOURNAL OF MARINE  
GEOLOGY, GEOCHEMISTRY AND GEOPHYSICS

(Abstracted/Indexed in: A.G.I.'s Bibliography and Index of Geology; Aquatic Sciences and Fisheries Abstracts; Bulletin Signalétique, Chemical Abstracts, Current Contents, Elsevier BIOBASE/Current Awareness in Biological Sciences, Geo Abstracts, Geoscience Contents, Marine Science Contents Tables, Oceanic Abstracts and PASCAL/CNRS. Also covered in the abstract and citation database Scopus®, Full text available on ScienceDirect®)

**Stratigraphic and Sedimentary Significance of the Mediterranean Outflow  
Water and its Conceptual Implications**

Guest Editors: J. Hernández-Molina, D.A. Hodell, D.A.V. Stow and C. Alvarez-Zarikian

For Contents see preliminary pages

<http://www.elsevier.com/locate/margo>

**Important Note to Authors**

For a full and complete Guide for Authors, please go to: <http://www.journals.elsevier.com/marine-geology/>



0025-3227(20160701)377C;1-N

Available online at [www.sciencedirect.com](http://www.sciencedirect.com)

**ScienceDirect**

377

MARINE GEOLOGY

Vol. 377 (2016) 1-146

STRATIGRAPHIC AND SEDIMENTARY SIGNIFICANCE OF THE MEDITERRANEAN OUTFLOW  
WATER AND ITS CONCEPTUAL IMPLICATIONS

ELSEVIER



Volume 377

1 July 2016

ISSN 0025-3227

# MARINE GEOLOGY

INTERNATIONAL JOURNAL OF MARINE  
GEOLOGY, GEOCHEMISTRY AND GEOPHYSICS

EDITORS-IN-CHIEF: J.T. WELLS, GLOUCESTER POINT, VA, USA  
G.J. DE LANGE, UTRECHT, THE NETHERLANDS

**SPECIAL ISSUE:** Stratigraphic and Sedimentary Significance of the Mediterranean Outflow  
Water and its Conceptual Implications  
Guest Editors: J. Hernández-Molina, D.A. Hodell, D.A.V. Stow and C. Alvarez-Zarikian

# MARINE GEOLOGY

## Editors-in-Chief

**J.T. Wells**, Virginia Institute of Marine Science, Route 1208 Grete Road, Gloucester Point, VA 23062-1346, USA. Tel.: +1 804 684 7103; Fax: +1 804 684 7097; E-mail: wells@vims.edu

**G.J. de Lange**, Department of Geochemistry, Institute of Earth Sciences, Utrecht University, Budapestlaan 4, 3584 CD Utrecht, The Netherlands. Tel.: +31 30 2535034; Fax: +31 30 253 5030; E-mail: gdelange@geo.uu.nl

## Editorial Board

T. Aagaard, Copenhagen, Denmark

J.B. Anderson, Houston, TX, USA

E.J. Anthony, Aix en Provence Cedex, France

S. Berné, Perpignan, France

A. Camerlenghi, Trieste, Italy

S.K. Chough, Seoul, Korea

J.S. Compton, Rondebosch, South Africa

M. De Batist, Gent, Belgium

V. Dekov, Plouzané, France

K.-C. Emeis, Hamburg, Germany

N. Fagel, Liège, Belgium

E.A. Felton, Canberra, Australia

D.L. Forbes, Dartmouth, N.S., Canada

S. Gao, Nanjing, China

W.R. Gehrels, Plymouth, UK

P.R. Gresse, Perpignan, France

K. Goto, Sendai, Japan

P.T. Harris, Canberra, ACT, Australia

J.R. Hein, Menlo Park, CA, USA

C. Hensen, Kiel, Germany

S. Kasten, Bremerhaven, Germany

S.A. Kuehl, Gloucester Point, VA, USA

J.P. Liu, Raleigh NC, USA

J.T. Liu, Taiwan, ROC

F. Lobo, Granada, Spain

G. Masselink, Plymouth, UK

N.C. Mitchell, Manchester, UK

T. Mulder, Talence, France

J.D. Orford, Belfast, UK

A. Orpin, Wellington, New Zealand

P.D. Osborne, Auckland, New Zealand

C. Paull, Moss Landing CA, USA

K. Pedoja, Caen, France

G.M.E. Perillo, Bahia Blanca, Argentina

L. Polyak, Columbus OH, USA

M. Rebesco, Sgonico, Italy

Y. Saito, Tsukuba, Japan

A. Stadnitskaia, Texel, The Netherlands

D. Stüben, Karlsruhe, Germany

N. Sultan, Plouzané, France

J. Syvitski, Boulder, CO, USA

A. Trenhaile, Windsor, ON, Canada

M. Vanneste, Oslo, Norway

P. Wang, Shanghai, China

C.D. Woodroffe, Wollongong, NSW, Australia

R. Wynn, Southampton, UK

## Aims and Scope of the journal

*Marine Geology* is the premier international journal on marine geological processes in the broadest sense. We seek papers that are comprehensive, interdisciplinary and synthetic that will be lasting contributions to the field. Although most papers are based on regional studies, they must demonstrate new findings of international significance. We accept papers on subjects as diverse as seafloor hydrothermal systems, beach dynamics, early diagenesis, microbiological studies in sediments, palaeoclimate studies and geophysical studies of the seabed. We encourage papers that address emerging new fields. We insist that the papers are concerned with the marine realm and that they deal with geology: with rocks, sediments, and physical and chemical processes affecting them. Papers should address scientific hypotheses: highly descriptive data compilations or papers that deal only with marine management and risk assessment should be submitted to other journals. Papers on laboratory or modelling studies must demonstrate direct relevance to marine processes or deposits. The primary criteria for acceptance of papers is that the science is of high quality, novel, significant, and of broad international interest.

## Author inquiries

You can track your submitted article at <http://www.elsevier.com/track-submission>. You can track your accepted article at <http://www.elsevier.com/trackarticle>. You are also welcome to contact Customer Support via <http://support.elsevier.com>.

## Language (Usage and Editing services)

Please write your text in good English (American or British usage is accepted, but not a mixture of these). Authors who feel their English language manuscript may require editing to eliminate possible grammatical or spelling errors and to conform to correct scientific English may wish to use the English Language Editing service available from Elsevier's WebShop <http://webshop.elsevier.com/languageediting/> or visit our customer support site <http://support.elsevier.com> for more information.

## Funding body agreements and policies

Elsevier has established agreements and developed policies to allow authors whose articles appear in journals published by Elsevier, to comply with potential manuscript archiving requirements as specified as conditions of their grant awards. To learn more about existing agreements and policies please visit <http://www.elsevier.com/fundingbodies>.

## Publication information

*Marine Geology* (ISSN 0025-3227). For 2016, volumes 371–382 are scheduled for publication. Subscription prices are available upon request from the Publisher or from the Elsevier Customer Service Department nearest you or from this journal's website (<http://www.journals.elsevier.com/marine-geology/>). Further information is available on this journal and other Elsevier products through Elsevier's website (<http://www.elsevier.com>). Subscriptions are accepted on a prepaid basis only and are entered on a calendar year basis. Issues are sent by standard mail (surface within Europe, air delivery outside Europe). Priority rates are available upon request. Claims for missing issues should be made within six months of the date of dispatch.