



Netherlands Journal of Geosciences

Geologie
en
Mijnbouw

Volume 97, Issues 1–2

March–June 2018

TNO innovation
for life



CAMBRIDGE
UNIVERSITY PRESS

Netherlands Journal of Geosciences — Geologie en Mijnbouw

Netherlands Journal of Geosciences – Geologie en Mijnbouw (ISSN 0016-7746) is an international journal published by the Netherlands Journal of Geosciences Foundation on behalf of the Royal Geological and Mining Society of the Netherlands (KNGMG) and TNO – Geological Survey of the Netherlands. It is the continuation of *Geologie en Mijnbouw* (published by KNGMG) and *Mededelingen Nederlands Instituut voor Toegepaste Geowetenschappen TNO* (published by TNO).

The board of the Netherlands Journal of Geosciences Foundation consists of: Hemmo Abels (chairman, KNGMG), Hans Doornenbal (treasurer/secretary, TNO), Boris Jansen (member, KNGMG) and Jeroen Schokker (member, TNO).

Editorial Office

Netherlands Journal of Geosciences – Geologie en Mijnbouw

P.O. Box 80015

T +31 (0) 88 866 20 64

3508 TA Utrecht

E njg@tno.nl

The Netherlands

Scope

Netherlands Journal of Geosciences – Geologie en Mijnbouw seeks to be the prime outlet for publication of geoscientific papers pertaining to the Netherlands, including its overseas countries and territories, the Dutch sector of the North Sea and relevant adjacent areas. Manuscripts on any geoscientific topic will be considered for publication, provided they comply with the regional focus of the journal and are of international interest and quality.

Submission of manuscripts

Authors who wish to submit an article to Netherlands Journal of Geosciences should submit their manuscript via the website: <http://mc.manuscriptcentral.com/njg>. First-time users need to register by following the link 'New User? Register here'. After registering, authors can submit their manuscript via the Author Centre.

Manuscripts should be prepared in accordance with the 'Instructions to Contributors' which can be found on the journal's website (<http://journals.cambridge.org/NJG>). Author(s) are responsible for obtaining clearance for publication from relevant third parties including, if appropriate, permission to include copyrighted material.

Subscription and distribution

Netherlands Journal of Geosciences – Geologie en Mijnbouw is published quarterly in March, June, September and December, sometimes two quarterly issues could be combined to one "special" or "double" issue. It is distributed to members of the Royal Geological and Mining Society of the Netherlands (KNGMG) free of charge and to private and institutional subscribers. The institutional subscription price of volume 97 (2018) (which includes electronic access and postage) is £360 (USA, Canada and Mexico US\$583). The electronic-only price available to institutional subscribers is £322 (USA, Canada and Mexico US\$523).

Orders, which must be accompanied by payment, relating to the 2018 subscription year may be sent to any bookseller, subscription agent or direct to the publisher: Cambridge University Press, University Printing House, Shaftesbury Road, Cambridge CB2 8BS; or in the USA, Canada and Mexico: Cambridge University Press, Journals Fulfillment Department, 1 Liberty Plaza, Floor 20, New York, NY 10006, USA.

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. Application to mail at Periodicals Postage Rates is pending at New York, NY

Editor

J.H. ten Veen, TNO – Geological Survey of the Netherlands, P.O. Box 80015, 3508 TA Utrecht, the Netherlands

Associate Editors

R.T. van Balen, Earth and Climate Cluster, Department of Earth Sciences, VU University Amsterdam, De Boelelaan 1085, 1081 HV Amsterdam, the Netherlands & TNO – Geological Survey of the Netherlands, P.O. Box 80015, 3508 TA Utrecht, the Netherlands

W.W.W. Beekman, Department of Earth Sciences, Utrecht University, Budapestlaan 4, 3584CD Utrecht, the Netherlands

M.E. Donselaar, Department of Geotechnology, Delft University of Technology, Stevinweg 1, 2628 CN Delft, the Netherlands & Visiting Professor at University of Leuven, Department of Earth and Environmental Sciences, Celestijnenlaan 200E, B-3001 Leuven-Heverlee, Belgium

J.M. Verweij, TNO – Applied Geosciences, P.O. Box 80015, 3508 TA Utrecht, the Netherlands

G.J. Vis, TNO – Geological Survey of the Netherlands, P.O. Box 80015, 3508 TA Utrecht, the Netherlands