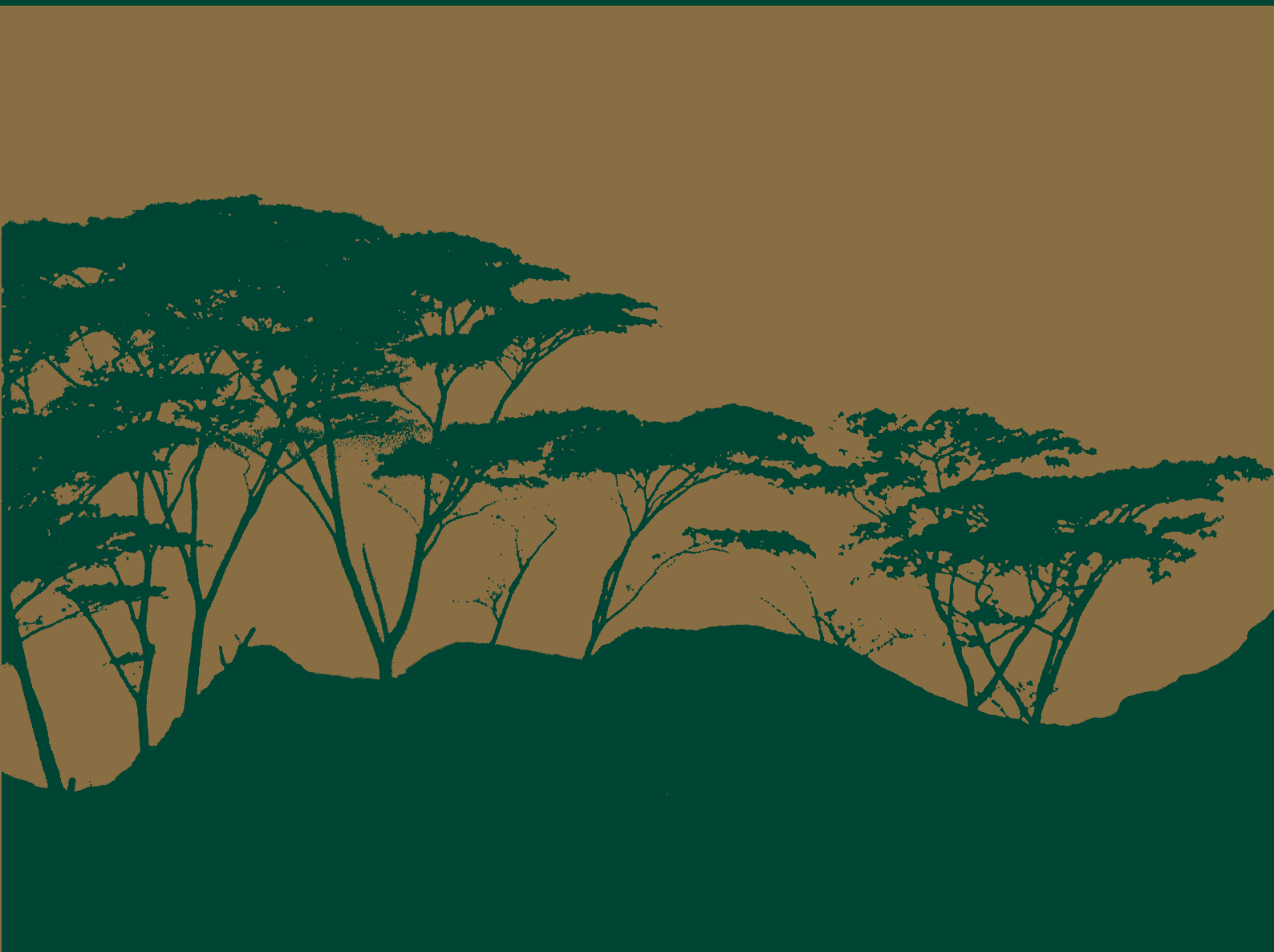


VOLUME 28 | PART 5 | SEPTEMBER 2012

0266-4674

JOURNAL OF

# tropical ecology



**CAMBRIDGE**  
UNIVERSITY PRESS

# JOURNAL OF tropical ecology

## EDITOR

**I. M. Turner**, *Journal of Tropical Ecology*,  
P.O. Box 20, Winchelsea, East Sussex TN36  
4WA, UK  
Email: [jte@cambridge.org](mailto:jte@cambridge.org)

## EDITORIAL BOARD

**F. Bongers**, Sub-Department of Forestry,  
Department of Environmental Sciences,  
Wageningen Agricultural University,  
P.O.B. 342, 6700 AH Wageningen,  
The Netherlands

**R. G. A. Boot**, Tropenbos International,  
P.O. Box 232, 6700 AE Wageningen,  
The Netherlands

**N. D. Brown**, Department of Plant  
Sciences, South Parks Road, University of  
Oxford, Oxford OX1 3RB, UK

**L. A. Bruijnzeel**, Faculty of Earth Sciences,  
Vrije University (VUA), De Boelelaan  
1085, 1081 HV Amsterdam,  
The Netherlands

**P. M. Forget**, Muséum National d'Histoire  
Naturelle, 4 avenue du Petit Château,  
91800 Brunoy, France

**H. H. T. Prins**, Department of Terrestrial  
Ecology & Nature Conservation,  
Wageningen Agricultural University,  
Bornssesteeg 69, 6708 PD Wageningen,  
The Netherlands

**E. V. J. Tanner**, Department of Plant  
Sciences, Downing Street, University of  
Cambridge, Cambridge CB2 3EA, UK  
**C. E. G. Tutin**, S.E.G.C., B.P. 7847,  
Libreville, Gabon

**M. J. A. Werger**, Department of Plant  
Ecology & Evolutionary Biology,  
University of Utrecht,  
PO Box 800.84, 3508 TB Utrecht,  
The Netherlands

## Scope of the journal

*Papers* may deal with terrestrial, freshwater and strand/coastal tropical ecology, and both those devoted to the results or original research as well as those which form significant reviews will be considered. Papers normally should not exceed 6000 words of text. *Short Communications* are acceptable: they should not exceed four printed pages in total length.

## Submission of Manuscripts

All manuscripts must be submitted online via the website:  
<http://mc.manuscriptcentral.com/jte>

Please consult the instructions for authors on the inside back cover.

## Subscriptions

The *Journal of Tropical Ecology* (ISSN 0266-4674) is published six times a year in January, March, May, July, September and November. The subscription price (excluding VAT) of Volume 28 (2012) (which includes postage by air, plus electronic access) is £412 net (US \$742 in the USA, Canada and Mexico) for institutions; the electronic only price for institutional subscribers is £326 net (US \$600 in the USA, Canada and Mexico); £102 net (US \$192 in the USA, Canada and Mexico) for individuals, which is print only, ordering direct from the publisher and certifying that the journal is for their personal use; £95.25 net (US \$172.50 in the USA, Canada and Mexico) for individuals (print only) in low-income developing countries. Single parts are £70 (US \$127 in the USA, Canada and Mexico) plus postage.

Orders, which must be accompanied by payment, may be sent to a bookseller, subscription agent or direct to the publisher: Cambridge University Press, The Edinburgh Building, Shaftesbury Road, Cambridge CB2 8RU, 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, P.O. Box 55, Chitose, Tokyo 156, Japan.

Copies of the journal for subscribers in the USA, Canada and Mexico are sent by air to New York to arrive with minimum delay. Periodicals postage paid at New York, NY, and at additional mailing offices. POSTMASTER: send address changes in the USA, Canada and Mexico to: *Journal of Tropical Ecology*, Cambridge University Press, 100 Brook Hill Drive, West Nyack, New York 10994-2133. Claims for missing issues should be made immediately on receipt of the subsequent issue.

## Advertising

For all parts of the world *except* USA, Canada and Mexico to Journals Advertising: [ad\\_sales@cambridge.org](mailto:ad_sales@cambridge.org)  
Address enquiries in the USA, Mexico and Canada *only* to:  
[journals\\_advertising@cup.org](mailto:journals_advertising@cup.org)

## Copying

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

*ISI Tear Sheet Service*, 3501 Market Street, Philadelphia, PA 19104, USA, is authorized to supply single copies of separate articles for private use only.

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.

## Internet Access

This journal is included in the Cambridge Journals Online service which can be found at [www.journals.cup.org](http://www.journals.cup.org). For further information on other Press titles access <http://uk.cambridge.org>

© Cambridge University Press 2012

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](http://www.fsc.org) for information.

Cambridge University Press  
The Edinburgh Building, Shaftesbury Road,  
Cambridge CB2 8RU, United Kingdom  
32 Avenue of the Americas, New York,  
NY 10013-2473 USA  
477 Williamstown Road, Port Melbourne,  
VIC 3207, Australia  
C/Orense, 4, planta 13, 28020 Madrid, Spain  
Dock House, The Waterfront, Cape Town  
8001, South Africa

Printed in the UK by MPG Books Ltd