VOLUME 36 No. 3 SEPTEMBER 2009 ENVIRONMENTAL CONSERVATION

EDITOR: Nicholas V. C. Polunin *Newcastle University, UK*

ASSOCIATE EDITORS: Mark Boyce, *Canada* Katrina Brown, *UK* Charlie M. Shackleton, *South Africa* Trevor J. Willis, *New Zealand*

CAMBRIDGE UNIVERSITY PRESS

Environmental Conservation now accepts submissions via Manuscript CentralTM Go to http://mc.manuscriptcentral.com/envcon

ENVIRONMENTAL CONSERVATION International Journal of Interdisciplinary Environmental Science

Environmental Conservation aims to embrace all aspects of its field, including issues in: human institutions and attitudes; biodiversity, species losses and introductions; industry, pollution and habitat degradation; movements and agencies; energy and materials sources; trade and conventions; terrestrial ecosystems and carrying capacity; dynamics of populations and ecosystems; atmospheric and oceanic processes; international environmental law; coastal zone management; and environmental economics.

EDITOR

Nicholas V.C. Polunin. Tel: +44 (0) 191 222 6675

Editorial Assistants

Alison Bentley (papers for publication, book reviews and general) Tel: +44 (0) 191 222 5868. E-mail: envcons@ncl.ac.uk School of Marine Science and Technology, Ridley Building, Newcastle University, Newcastle upon Tyne NE1 7RU, UK

Gillian Wilson (copy-editing) E-mail: envcons@upcmail.nl

ASSOCIATE EDITORS

Katrina Brown (Environmental Social Science/Environment and Development) School of Development Studies, University of East Anglia, Norwich NR4 7TJ, UK

- Mark Boyce (Wildlife Conservation Science) University of Alberta, Edmonton, Alberta, Canada T6G 2E9
- Charlie M. Shackleton (Natural Resource Use and Sustainability) Department of Environmental Science, Rhodes University, Grahamstown 6140, South Africa

Trevor J. Willis (Comments Editor/Marine Ecology) National Institute of Water and Atmospheric Research (NIWA), PO Box 893, Nelson, New Zealand

ADVISORY EDITORS

Dr Carl S. Folke (Ecological Economics) Beijer International Institute of Ecological Economics, Sweden Dr Paul Jepson (Conservation Practice) University of Oxford, United Kingdom Dr Gary Kofinas (Resource Management/Ecological Anthropology) University of Alaska Fairbanks, USA Dr William F Laurance (Tropical Conservation Biology/Global Change Science) James Cook University, Australia Dr Timothy R. McClanahan (Marine Ecology) The Wildlife Conservation Society, Kenya Professor Herbert H. T. Prins (Wildlife Ecology) Wageningen University, The Netherlands Professor Garry W. Trompf (Ethics/Beliefs) University of Sydney, Australia Dr Philip H. Warren (Ecological Communities)

University of Sheffield, United Kingdom

© Foundation for Environmental Conservation 2009 [URL http://www.ncl.ac.uk/icef]

The Edinburgh Building, Cambridge CB2 8RU, United Kingdom 32 Avenue of the Americas, New York, NY 10013-2473, USA 477 Williamstown Road, Port Melbourne, VIC 3207, Australia Ruiz de Alarcón 13, 28014 Madrid, Spain Dock House, The Waterfront, Cape Town 8001, South Africa

https://doi.org/10.1017/S0376892910000019 Published online by Cambridge University Press

SUBMISSION OF MANUSCRIPTS

Manuscripts may now be submitted via Manuscript CentralTM Go to http://mc.manuscriptcentral.com/envcon.

Please consult the Instructions for Authors published in this issue of Environmental Conservation.

SUBSCRIPTIONS

Environmental Conservation (ISSN 0376-8929) is published four times a year in March, June, September and December. Four parts form a volume. The 2009 subscription price (excluding VAT) of a volume, which includes print and electronic access, is £353 (US\$672 in USA, Canada and Mexico); £105 (US\$198) for individuals, which includes print only, ordering direct from the publishers and certifying that the journal is for their personal use. The electronic-only price available to institutional subscribers is f_{295} (US\$566 in USA, Canada and Mexico). Single parts are £92 (US\$174 in USA, Canada and Mexico) plus postage. EU subscribers (outside the UK) who are not registered for VAT should add VAT at their country's rate. VAT registered members should provide their VAT registration number. Japanese prices for institutions (including ASP delivery) are available from Kinokuniya Company Ltd, PO Box 55, Chitose, Tokyo 156, Japan. Prices include delivery by air where appropriate. Periodicals postage is paid at New York, NY, and at additional mailing offices.

Postmaster: send address changes in the USA, Canada and Mexico to: Environmental Conservation, Cambridge University Press, 100 Brook Hill Drive, West Nyack, NY 10994-2133, USA. Claims for missing issues should be made immediately on receipt of the subsequent issue.

ADVERTISING

Advertising queries for all parts of the world except the USA, Canada and Mexico to the Journals Advertising Co-ordinator: Rebecca Curtis, ad_sales@cambridge.org

Address enquiries in the USA, Mexico and Canada only to:

journals_advertising@cup.org

COPYING

This journal is registered with the Copyright Clearance Center, 222 Rosewood Drive, Danvers, MA 01923, USA. 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 of the per-copy fee of \$16.00. This consent does not extend to multiple copying for promotional or commercial purposes. Code 0376-8929/2009 \$16.00. 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.

Environmental Conservation is covered by the major abstracting and indexing services including: Biological Abstracts, Current Advances in Ecological Sciences, Current Contents, Ecological Abstracts, Environment Index, Environmental Abstracts, Environmental Periodicals Bibliography, Excerpta Medica/EMBASE, Geographical Abstracts, Science Citation Index, World Agricultural Economics & Rural Sociology Abstracts.

Internet Access

This journal is included in the Cambridge Journals Online service which can be found at journals.cambridge.org. For further information on other Press titles access cambridge.org

This publication is printed on chlorine-free paper made with 75% recycled fibres

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.

Printed in the United Kingdom by the University Press, Cambridge.