

Oryx

The International Journal of Conservation

www.oryxthejournal.org

Published for **Fauna & Flora International**

January 2011 · Volume 45 · Number 1

Hippopotamuses

Common hippopotamus in Kenya and Tanzania
Pygmy hippopotamus in Liberia

Monitoring ungulates in Central Asia

Current constraints and future potential



Benchmarking

A means to improve conservation practice?

Local responses to a park in Uganda

Alternate narratives on fortress conservation

Impact of civil war on wildlife

Mammals in Gola Forest, Sierra Leone

Invasive species and hunting aid conservation

Feral pigs in a Neotropical wetland

Illegal bushmeat trade in Zimbabwe

Dynamics, underlying causes, and ecological and financial impacts

Tiger home range size in the Bangladesh Sundarbans

The value of this mangrove ecosystem

Oryx

The International Journal of Conservation

ISSN 0030-6053 Fauna & Flora International

Patron Her Majesty The Queen

A company limited by guarantee registered in England 2677068

Registered Charity 1011102

A registered 501(c)(3) non-profit organization EIN #04-2730954 in the United States of America

A non-profit charitable institution ABN 75132715783 in Australia

FFI, 4th Floor, Jupiter House, Station Road, Cambridge, CB1 2JD, UK

Tel: +44 1223 571000; Fax: +44 1223 461481

E-mail: info@fauna-flora.org <http://www.fauna-flora.org>

FFI USA, 1720 N Street, NW, Washington, DC 20036, USA

Tel: +1 202 375 7766; E-mail katie.frohardt@fauna-flora.org

FFI Australia, 62 Cambridge Street, Collingwood, Victoria, Australia

Tel: +61 39416 5220; E-mail ffaiaustralia@fauna-flora.org

Editor

Dr Martin Fisher, *FFI, UK*

Editorial Assistants

Elizabeth Allen, *FFI, UK*

Nikki Burton, *FFI, UK*

Senior Editors

Professor Bill Adams *University of Cambridge, UK*

Professor Andrew Balmford *University of Cambridge, UK*

Dr Porter P. Lowry II *Missouri Botanical Garden, USA and France*

Dr Mike Maunder *Al Ain Wildlife Park, United Arab Emirates*

Dr Jeffrey A. McNeely *IUCN — The World Conservation Union, Switzerland*

Professor E. J. Milner-Gulland *Imperial College London, UK*

Dr John G. Robinson *Wildlife Conservation Society, USA*

Professor William Sutherland *University of Cambridge, UK*

International Board of Editors

Dr Elizabeth L. Bennett *USA*

Dr Robert K. Bonde *USA*

Dr Katrina Brown *UK*

Professor Neil Burgess *Denmark*

Dr Thomas Butynski *Kenya*

Dr Robert H. Cowie *Hawaii*

Professor Richard M. Cowling *South Africa*

Dr Jenny Daltry *UK*

Professor Jon Fjeldså *Denmark*

Professor Ulf Gärdenfors *Sweden*

Dr Brendan J. Godley *UK*

Professor Rhys Green *UK*

Professor Colin Groves *Australia*

Dr K. Ullas Karanth *India*

Professor Sandra Knapp *UK*

Dr Kathy MacKinnon *UK*

Dr David Mallon *UK*

Dr Rodrigo A. Medellín *Mexico*

Professor John F. Oates *USA*

Sara Oldfield *UK*

Professor Hugh Possingham *Australia*

Dr Jon Paul Rodriguez *Venezuela*

Dr Kent H. Redford *USA*

Dr Anthony B. Rylands *USA*

Dr Philip Seddon *New Zealand*

Dr Paul Smith *UK*

Dr Matt Walpole *UK*

Fauna & Flora International

President

Lindsay Bury

Vice Presidents

Baroness Amos

Sir David Attenborough, OM, FRS

Professor David Bellamy, OBE

The Lord Browne of Madingley, FR Eng

Field Marshal Sir John Chapple GCB, CBE, DL

Dame Judi Dench

Dr Lee Durrell

Stephen Fry

Edward Hoare

Professor Frederick Kayanja

Professor Jonathan Kingdon

HRH Princess Laurentien of the

Netherlands

Rove McManus

Sir Mark Moody-Stuart

Dr Lisbet Rausing

Jon L. Stryker

Dr Charlotte Uhlenbroek

The Rt Hon Baroness Young of Old Scone

Council

Chair Andrew Sykes

Vice Chair Professor Paul Racey

Treasurer Philip Prettejohn

Chief Executive Officer Mark Rose

Professor Bill Adams

Virginia Drabbe-Seemann

Stephen Georgiadis

Dr Sandra Knapp

Professor Nigel Leader-Williams

Philip Merricks, MBE, DL

Professor E.J. Milner-Gulland

Professor Callum Roberts

Diana van de Kamp

Charles Whitbread

John Wotton

US Board of Directors

Chair Melissa Shackleton Dann

Vice Chair Clea Newman Soderlund

Treasurer C. Jonathan Fischer

Secretary Dorette Louise Fleischmann

Virginia M. Busch

Marc J. Ebbin

Thomas S. Foster

Blaine T. Phillips

Mark Rose

Beth Ann Ruoff

Charles C. Savitt

Victoria Stack

Karen B. Winnick

Anita Winsor-Edwards

Australian Board of Directors

Chair Kevin Skelton

Lisa Gay

Paul Heffernan

Mark Rose

John Taberner

Luca Tacconi

Subscriptions *Oryx* (ISSN 0030-6053) is published four times a year (one volume per annum) in January, April, July, and October. The 2011 subscription price (excluding VAT) of a volume, which includes print and electronic access, is £423.00 (US \$768.00 in USA, Canada and Mexico). The electronic-only price available to institutional subscribers is £365.00 (US \$666.00 in USA, Canada and Mexico).

Orders, which must be accompanied by payment, may be sent to any 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: Journals Fulfillment Department, Cambridge University Press, 100 Brook Hill Drive, West Nyack, New York 10994-2133, USA. 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, P.O. Box 55, Chitose, Tokyo 156, Japan. Prices include delivery by air. Periodicals postage paid at New York, NY, and at additional mailing offices. *Postmaster*: send address changes in USA, Canada and Mexico to: *Oryx*, Cambridge University Press, 100 Brook Hill Drive, West Nyack, New York 10994-2133, USA. Claims for missing issues should be made immediately on receipt of the subsequent issues.

FFI Members Subscription Members of Fauna & Flora International receive the journal as part of their subscription to the society. For more information about FFI membership visit <http://www.fauna-flora.org/membership.php> Enquiries about back issues for members should be addressed to the Membership Secretary (members@fauna-flora.org)

Back volumes Copies of the current volume and two previous volumes can be obtained from Cambridge University Press at the above address. Requests for previous volumes should be directed to the Membership Secretary (members@fauna-flora.org) at FFI.

Copyright and Permissions 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 C.C.C. may therefore photocopy material (beyond the limits permitted by Section 107 and 108 of U.S. Copyright law) subject to payment to C.C.C. of the per-copy fee of \$16.00. This consent does not extend to multiple copying for promotional or commercial purposes. Code 0030-6053/2011 \$16.00. *ISI Tear Sheet Service*, 3501 Market Street, Philadelphia, PA 19104, USA, is authorized to supply single photocopies of separate articles for private use only. Organizations authorized by the UK Copyright Licensing Agency may also copy material subject to the usual conditions. For all other use, permission should be sought from Cambridge University Press.

No part of this publication may otherwise be reproduced, stored or distributed by any means without permission in writing from Cambridge University Press, acting for the copyright holder.

Internet Access This journal is included in the *Cambridge Journals Online* service which can be found at: <http://journals.cambridge.org> For further information on other Press titles access <http://uk.cambridge.org> or <http://us.cambridge.org>

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