

Volume XVIII

October 1984

Fauna & Flora
Preservation Society

 **Oryx**



Fauna & Flora Preservation Society

Founded 1903
Patron HER MAJESTY THE QUEEN



ISSN 0030-6053

President

Sir Peter Scott CBE DSC

Vice Presidents

Dr E.A.O. Asibey (Ghana)
David Attenborough CBE (UK)
Professor A.G. Bannikov (USSR)
Dr David Bellamy (UK)
Dr Felipe Benavides OBE (Peru)
Lt Col C.L. Boyle OBE (UK)
Dr Harold J. Coolidge (USA)
Mervyn Cowie CBE ED (Kenya)
Lord Craigton, P.C. CBE
Dr Kai Curry-Lindahl (Sweden)
Lt Col J.P. Grant of Rothiemurchus,
MBE (UK)
Major Ian R. Grimwood OBE
(Kenya)
Dr Lee M. Talbot (USA)
T.A.P. Walker (UK)

Chairman

Richard Fitter

Vice Chairman

David M. Jones MRCVS

Hon. Treasurer

Edward Hoare FAAI

Membership

Oryx is free to members.
Details, see tear sheet

Council

Dr Keith Banister
Dr David Chivers
Mrs Maisie Fitter
Brian Jackman
Clive Jermy
Stuart Johnstone
Jonathan Kingdon
G.L.I. Lucas OBE
Dr David
Macdonald
Jeremy Mallinson
Professor
N.W. Moore
Fergus O'Gorman
John Sparks
Dr R.E. Stebbings
The Hon. Vincent
Weir
Edward Wright

Exec. Secretary

John A. Burton

Editor of *Oryx*

Dr Jacqui Morris

We gratefully
acknowledge the
support received for
the publication of
Oryx from
Consolidated
Goldfields PLC.

Fauna and Flora Preservation Society Inc.

US Directors

Dr Gerard A. Bertrand
Alan D. Hutchison
Dr C. Dart Thalman
John Walsh

UK Directors

John A. Burton
Richard Fitter

Hon. Directors

Dr Harold J. Coolidge
Dr Alison Jolly
Christine Stevens

Editorial Board

Dr Jacqui Morris
(Chairman)
Dr David Chivers
Mrs Maisie Fitter
Dr C. Humphries
Brian Jackman
Dr David Macdonald
Fergus O'Gorman
John Sparks
Edward Wright

Design Adviser to *Oryx*

Keith Whitehead

Manuscripts are invited for
consideration for publication and
should be sent to the Editor from
whom guidelines for authors are also
available.

The opinions expressed by authors do
not necessarily reflect the policy of
ffPS.

Address

c/o Zoological Society of
London, Regent's Park
London NW1 4RY
Tel: 01-586 0872

Registered Charity
No. 250358

Cover: Galápagos marine iguana
Amblyrhynchus cristatus, with lizard.
These iguanas suffered badly during
the last El Niño (see page 214).
Thousands starved after their algal
food died in the warmer waters. The
populations are now recovering, but
their restricted range also makes them
particularly vulnerable to man-made
disturbances (*Gunter Ziesler/Bruce
Coleman Ltd*).

Colour cover donated by
Edward Wright Ltd.

Colour separation donated by
Masterlith Ltd of Mitcham in
Surrey.

Subscriptions

The journal is published quarterly (January, April,
July, October) and the subscription price for 1984 for
non-members is £19.50 (UK), £23.50 (overseas), and
\$45 (USA and Canada) post free.

The journal is published for the Fauna & Flora
Preservation Society by Blackwell Scientific
Publications Ltd. All matters relating to
subscriptions, back numbers and offprints should
be sent to Blackwell Scientific Publications Ltd,
PO Box 88, Oxford, England.

Advertising

Enquiries should be sent to the Advertisement
Manager, Blackwell Scientific Publications Ltd,
Osney Mead, Oxford OX2 0EL, England (telephone
0865 240201).

© 1984 Fauna & Flora Preservation Society.

USA

Authorization to photocopy items for internal or
personal use, or the internal or personal use of

specific clients, is granted by the Fauna & Flora
Preservation Society for libraries and other users
registered with the Copyright Clearance Center
(CCC) Transactional Reporting Service, provided
that the base fee of \$02.00 per copy is paid directly to
CCC, 21 Congress Street, Salem, MA 01970, U.S.A.
Special requests should be addressed to the Editor.
0030-6053/84 \$02.00.

Current issues for North and South America, the Indian
Sub-Continent, Australasia and the Far East are sent by
air to regional distribution points from where they are
forwarded to subscribers by surface mail. Any back
numbers are normally despatched by surface to all
regions, except North America and India, where they
are sent by air freight.

US Mailing Agent: Expeditors of the Printed Word
Ltd, 515 Madison Avenue, Suite 1217, New York, NY
10022, second class postage paid at New York, N.Y.

Postmaster: send address corrections to *Oryx*, c/o
Expeditors of the Printed Word Ltd, 515 Madison
Avenue, New York, NY 10022 (US Mailing Agent).

Oryx

**Journal of the
Fauna & Flora Preservation Society**

Volume XVIII 1984

Pages 1–261

Published by
Blackwell Scientific Publications
Oxford London Edinburgh Boston Palo Alto Melbourne

Contents

Volume XVIII January 1984

- 1 News and Views
- 8 A census of the Virunga gorillas
Conrad Aveling and Alexander H. Harcourt
- 14 Fortress Falklands—but is its wildlife secure?
Ian Strange
- 22 The Falkland Islands Foundation
Simon Lyster
- 24 In urgent need of protection—habitat for the woolly spider monkey
John Hatton, Nick Smart and Koy Thomson
- 30 The Bengal florican: its conservation in Nepal
C. Inskipp and N. J. Collar
- 36 Round Island in 1982
David Bullock and Steven North
- 42 The park that protects the Panama Canal
Nicholas Smythe
- 47 Briefly
- 54 Book reviews
- 58 Society pages
- 61 Bibliography of Red Data Books (Part 1, Animal Species)
John A. Burton

Volume XVIII April 1984

- 65 Editorial
- 66 News and Views
- 72 Lion tamarins' survival hangs in balance
Jeremy Mallinson
- 79 To save the snake: education and conservation at the Madras Snake Park
Diana Seshadri

Volume contents

- 82 Iguanas of the South Pacific
John Gibbons
- 92 The Humboldt penguin in Peru
Coppelia Hays
- 96 Tropical forest management: can rates of natural treefalls help guide us?
Joseph P. Skorupa and John M. Kasenene
- 102 Some more politics of conservation
Sidney Holt
- 107 Briefly
- 114 Letters
- 117 Book reviews
- 124 Society pages
- 128 Members' diary

Volume XVIII July 1984

- 129 Editorial
- 130 News and Views
- 136 Operation Oryx—the success continues
Richard Fitter
- 138 Conservation success for two Bermudan bird species
Sir Christopher Lever
- 144 A new locality for the lion-tailed macaque
Brian Groombridge
- 148 The Cactaceae, a family threatened by trade
Sara Oldfield
- 152 Endangered mammals of Bangladesh
Mohammad Ali Reza Khan
- 157 Otters in Morocco
Sheila M. Macdonald and Christopher F. Mason
- 160 Wildlife on Réunion
François Moutou

iii

- 163 The gharial in Bangladesh
Simon Wakefield
165 Letters
166 Briefly
176 Book reviews
185 Society pages
192 Members' diary

Volume XVIII October 1984

- 193 Editorial
194 Guest Editorial
Sidney Holt
195 News and Views
202 Conservation in Sweden—problems and
progress
Kai Curry-Lindahl

- 210 The 1982–83 El Niño: some of its
consequences for Galápagos wildlife
Godfrey Merlen
215 A trust to fight for desert wildlife in Namibia
218 Botswana's fences and the depletion of
Kalahari wildlife
Douglas Williamson and Jane Williamson
223 The Mountain Gorilla Project: Progress
Report No. 6
Roger Wilson
230 W National Park in Niger—a case for
urgent assistance
John Grettenberger
237 Black and white rhino introductions in
north-west Zimbabwe
V. R. Booth, M. A. Jones and N. E. Morris
241 Briefly
250 Letters
251 Book reviews
256 Society pages
260 Members' diary
261 Index



PLEASE USE THIS FORM TO GET A NEW MEMBER

Application for Membership

The Fauna and Flora Preservation Society

c/o The Zoological Society of London, Regent's Park, London NW1 4RY

Please enrol me as a member of the society from (date).
Name (BLOCK LETTERS) Please state Mr/Mrs/Miss or title

Address

I enclose £
being my subscription as a Life/Benefactor/Ordinary Member/Student/Family.

Minimum subscriptions.
Ordinary member £15, US \$30; family £20, US \$40; benefactor £35, US \$70; student £7, US \$14. (Please add £1 for other convertible currency)

UK Members: It greatly benefits the society if you sign a deed of covenant (**UK taxpayers only**)

US Members: ffPS Inc is registered as a tax-deductible charity.

Life membership: £1000, US \$2000

The use of a Banker's order saves time, expense and reminders.

Banker's Order

(to be sent to the Fauna and Flora Preservation Society)

Name (Block Letters)

Bank

Address of Bank

*Please pay for the credit of: Fauna and Flora Preservation Society, Account No. 30899143, Barclays Bank Ltd, Camden Town Branch (20-17-53), London NW1 my subscription of

£..... due on; and the same amount on each year until further notice.

*Please pay for the credit of ffPS (Inc), Account No. 12-0844-6, Union National Bank, Main Street, Ayer MA 01432 USA my subscription of

\$..... due on; and the same amount on each year until further notice.

Signed:

*delete as appropriate



QUESTERS

*The world through
nature tours.*

Travel with a purpose.

Search out plants and animals, birds and flowers. Explore rain forests, mountains and tundra, seashores, lakes and swamps. With Questers you have ample time to photograph, absorb, reflect. Your guide is a naturalist, tour parties are small, accommodations first-class.

Our current Directory of Worldwide Nature Tours describes tours to: *In the Americas*—Okefenokee, Alaska, Hawaii, Canadian Rockies, Churchill, Mexico, Amazon, Patagonia, Galapagos, Peru. *In Asia*—Nepal, Bhutan, Sri Lanka, Japan. *In Australasia*—New Zealand, Australia, Papua New Guinea. *In Africa*—Madagascar, Mauritius, Kenya. *In Europe*—Iceland, Greece, Ireland, Switzerland, Scotland.

Learn and discover with Questers. Write or call today for your free copy of the Directory of Worldwide Nature Tours.



QUESTERS

Worldwide Nature Tours
Dept. OR, 257 Park Avenue South
New York, NY 10010 • (212) 673-3120

Special Publications of the British Ecological Society

No. 3 Ecological Aspects of Radionuclide Release

Edited by P.J. Coughtrey. 1983. 294 pages, 108 illustrations. Paper, £29.80

This publication contains papers presented at a meeting of the Industrial Ecology Group of the British Ecological Society held in April 1982. The subject of the meeting was those aspects of radionuclide release to the environment which impinge on, interact with, or are related to ecological systems. The volume reflects the radical changes in emphasis currently taking place in environmental studies of radionuclides, and will interest a wide audience.

No. 2 Tropical Rain Forest: Ecology and Management

Edited by S.L. Sutton, T.C. Whitmore and A.C. Chadwick. 1983. 512 pages, 90 illustrations. £28.50

With increasing concern in the world about the destruction of tropical rain forests, this volume will appeal to all those interested in discovering the current state of tropical forest science. It contains papers presented by the Tropical Group of the British Ecological Society at Leeds University in 1982, where the ecological subjects discussed were among those presently attracting the attention of tropical rain forest biologists.

No. 1 The Plant Community as a Working Mechanism

Edited by E.I. Newman. 1982. 128 pages, 40 illustrations. Paper, £4.50

'The theme of the volume is the understanding of the relationship of individual species to each other and the environment, and the ways in which plant community dynamics and structure are controlled... A useful addition to the ecological literature.' *Biologist*

**Blackwell Scientific Publications Ltd.,
Osney Mead, Oxford OX2 0EL, UK**