



Fauna & Flora Preservation Society

Founded 1903

Patron HER MAJESTY THE QUEEN

Registered address:

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

Address for mail:

8-12 Camden High Street, London NW1 0JH Tel: 01-387 9656

Registered Charity No. 250358

President Sir Peter Scott CH CBE DSC FRS

Vice-Presidents

Dr E.A.O. Asibey (Ghana) Sir David Attenborough CBE FRS (UK) Dr David Bellamy (UK) Dr Felipe Benavides OBE (Peru) Lt Col C.L. Boyle OBE (UK) Dr Gerard A. Bertrand Mervyn Cowie CBE ED (Kenya) Lord Craigton, PC, CBE Dr Kai Curry-Lindahl (Sweden) Gerald Durrell OBE Richard Fitter Major Ian R. Grimwood OBE (Kenya) Dr Lee M. Talbot (USA) T.A.P. Walker (UK)

Chairman

David M. Jones

Vice-Chairman

The Hon. Vincent Weir

Hon. Treasurer

Edward Hoare

Subscriptions

The Journal is published quarterly (January, April, July, October) and the subscription price for 1988 for non-members is £31 (UK), £37.50 (overseas except North America) and \$64.00 (US 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 OX2 0NE, UK.

Advertising

Enquiries should be sent to the Advertisement Manager, Blackwell Scientific Publications Ltd, Osney Mead, Oxford OX2 0EL, UK (telephone (0865) 240201; facsimile (0865) 721205).

© 1988 Fauna & Flora Preservation Society.

Council

Dr Keith Banister Stephen Bankler-Jukes Janet Barber Lord Birkett Dr Jeremy Cherfas Dr David Chivers Bruce Coleman Dr Lee Durrell Dr S.K. Eltringham Dr Chris Humphries John Knowles James MacEwen Dr Pat Morris Dr R.E. Stebbings **Richard Steele** Dr Ian Swingland Dr B.A. Thomas

Fauna & Flora Preservation Society Inc. Directors

Directors Dr Peter Ashton Earl Baysinger Dr Gerard A. Bertrand Trudi M. Bruschi John A. Burton Edward Hoare Alan D. Hutchison Dr Alison Jolly Elizabeth M. Morris Dr William B. Provine Christine Stevens Dr C. Dart Thalman John C. Walsh *Executive Director* Duane Pierson Hon. Photographer Tim Parmenter

Exec. Secretary John A. Burton

Editor of Oryx Dr Jacqui Morris

Manuscripts are invited for consideration for publication and should be sent to the Editor (see inside back cover).

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

Colour cover donated by Edward Wright Ltd. Colour separation donated by Masterlith Ltd of Mitcham in Surrey.

Membership

Oryx is free to members. Details, see tear sheet.

Members' changes of address In order to enable us to keep our membership records up to date please send any changes direct to: The Membership Secretary, FFPS, 8–12 Camden High Street, London NW1 0JH, UK.

Cover: Passionflower Passiflora coccinea in Amazone, Peru (WWF/H. Jungius/Bruce Coleman Ltd).

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 \$03.00 per copy is paid directly to CCC, 27 Congress Street, Salem, MA 01970, USA. This consent does not extend to other kinds of copying, such as copying for general distribution for advertising or promotional purposes, for creating new collective works or for resale. Special requests should be addressed to the Editor. 0030–6053/88 \$03.00.

The Journal is despatched within Europe by surface mail, to other continents by various forms of air speeded delivery: to the US* by air freight for forwarding by second class post, to India by air freight for guaranteed local delivery, and to all other countries by Accelerated Surface Post.

*Second class postage paid at New York, NY. Postmaster, send address changes to *Oryx*, c/o Expediters of the Printed Word Ltd, 515 Madison Avenue, New York, NY 10022, USA.





Application for Membership The Fauna and Flora Preservation Society

lame (BLOCK LETTERS) Mr/Mrs/Miss or title
Address (BLOCK LETTERS)
•••••••••••••••••••••••••••••••••••••••

MEMBERSHIP CATEGORY:

nternational		USA & Canada	
Standard	£15 ——	Individual	\$25
Concessionary	£7	Concessionary	\$20
Family	£20 —	Family	\$35
Benefactor	£35 ——	Contributor	\$100
Life	£1000	Benefactor	\$500
		Life	\$2000
		Science Fellow	\$30

*Concessionary membership: students, senior citizens and unemployed. PLEASE SPECIFY ——— If student, studies will finish —————.

*All convertible currencies, please add 30%.

*Include another $\pounds 6.40$ (\$10.00) for airmail rate . . . (tick if applicable). See inside front cover for information on despatch.

*USA residents: FFPS Inc. is a registered tax-deductible charity.

*USA Science Fellow academic field or speciality

TOTAL AMOUNT OF CHEQUE OR MONEY ORDER ENCLOSED -

How did you find Oryx? A friend — Library/Institute — Newspaper/TV — FFPS — Other (please specify)

PLEASE SEND TO: FFPS, or c/o The Zoological Society of London, Regent's Park, London NW1 4RY, UK.

FFPS, Box 1108, Boston, MA 02130, USA.

WITH FFPS YOU KNOW WHERE ALL YOUR GIFT GOES

or

Nearly everybody donates to one charity or another, but where does your money **really** go?

A legacy to the ORYX 100% Fund means your gift—100% of it—will go direct to save an endangered species.

Please write to the FFPS office for further details.

	s, Predatioi	n and Cons	rid	\smile		
G. R. Po	otts					
compendium impact on it arable farms Conservance most produce BIRDS – Mag 'This supert be more tim Journal of The Conservation There is an e partridge nu of pesticides a better und ecology and	n of facts abou of changing ag The auth y are to be cong tive study.' pazine of the RSF monograph c ely' British Associat	ould not tion of Nature of decline in stly to the use ks to promote partridge rage methods	and the tices on ne			
accinic.				14 14 M		~
	ardback £19.9	5		المالي 1		\square
288 pages h	R FORM					A.
288 pages h ORDE Please rett Blackwell	R FORM arn to: Scientific Pu	l blications	VAL			
288 pages h ORDE Please rett Blackwell Osney Me Please sence each plus £	R FORM urn to: Scientific Pu ad Oxford (Ime 1.75 towards p	l blications	of The Partri king = £21.7	dge by G. R.	Potts at £1	9.95
288 pages h ORDE Please rett Blackwell Osney Me Please sence each plus £ (Please dele	R FORM surn to: Scientific Put ad Oxford (me 1.75 towards put ete)	blications DX2 0EL _ copy/copies	king = £21 .7	0		
288 pages h ORDE Please rett Blackwell Osney Me Please sence each plus £ (Please dele Ulease dele Lencle Public	R FORM arn to: Scientific Put ad Oxford (me 1.75 towards posted) base a cheque for cations	blications DX2 0EL _ copy/copies (ostage and pac	king = £21.7 . made payał	0 Die to Blackw	vell Scienti	fic
288 pages h ORDE Please rett Blackwell Osney Me Please sence each plus £ (Please dele Ulease dele Lencle Public	R FORM scientific Put ad Oxford (me 1.75 towards put ete) ose a cheque for cations e debit my Acce	blications DX2 0EL _ copy/copies o ostage and pac	king = £21.7 . made payał	0 Die to Blackw	vell Scienti	fic
288 pages h ORDE Please rett Blackwell Osney Me Please send each plus £ (Please dele Ulease dele Ulease dele Dublic Please Card	R FORM scientific Put ad Oxford (me 1.75 towards put ete) ose a cheque for cations e debit my Acce	blications DX2 0EL _ copy/copies o ostage and pac	king = £21.7 . made payał	0 Die to Blackw	vell Scienti	fic



The only organisation based in Great Britain dedicated solely to the protection of whales, dolphins and porpoises.

"The Whale Conservation Society will play a most useful role in alerting people to the continuing plight of whales and dolphins" Sir Peter Scott CH CBE DSC: President.

Members receive our bi-annual publication - The **INTERNATIONAL WHALE BULLETIN** - a two-colour, glossy tabloid newspaper full of whale and dolphin information and photographs; as well as news updates on whale developments throughout the world.

IF YOU CARE ABOUT WHALES, PLEASE JOIN US NOW:

Name Mr/Mrs/Ms/Miss Address								
	Postcode							
I/We enclose cheque/PO for £								
TO: WHALE								
CONSERVATION SOCIETY		Single £ 7.50						
20 West Lea Road, Bath,		Family £12.50						
Avon, BA1 3RL,		Overseas £10.00						
England,		(Int. money order please)						
Tel: 0225 334511.		Donation						

____ please cut out or copy __

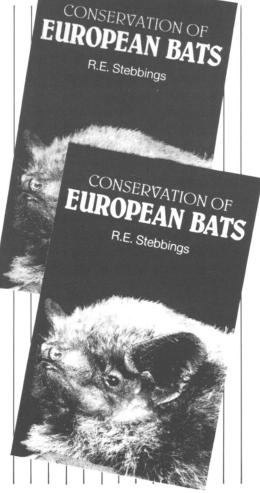
CONSERVATION OF **EUROPEAN BATS**

R.E. Stebbings

A timely review of the complex conservation problems facing European bats. The book presents practical conservation policies, priorities and guidelines for bats. Written by one of Europe's leading authorities and published under the aegis of the International Union for the Conservation of Nature, this is an indispensable conservation handbook.

£9.95 pbk 0-7470-3013-8 256 pages 16 b/w photographs April '88

Available from the Natural History Book Service and other booksellers.



CHRISTOPHER HELM 99 PUBLISHERS LIMITED