

June 1984

ISSN 0007-4853  
Vol. 74(2), 175-341

# Bulletin of Entomological Research



Commonwealth Institute of Entomology

# COMMONWEALTH INSTITUTE OF ENTOMOLOGY

## Director and Editor

N. C. PANT, M.Sc., Ph.D., D.I.C., F.N.A.

## Assistant Editor

J. M. B. HARLEY, B.Sc.

*Headquarters, Publication Office and Library*—56 Queen's Gate, London SW7 5JR, UK.  
Telephone: 01-584-0067. Telegrams: ENTINFO LONDON SW7. Telex: 847964.

*Identification Service*—c/o British Museum (Natural History), Cromwell Road, London SW7 5BD, UK.

The Commonwealth Institute of Entomology is one of 10 Bureaux and 4 Institutes that together form the Commonwealth Agricultural Bureaux, an organisation sponsored by the Commonwealth governments for the dissemination of information on agricultural research.

The *Bulletin of Entomological Research* is a quarterly journal prepared by the Institute and published by the Commonwealth Agricultural Bureaux.

### *Annual Subscription Rate 1984*

To subscribers in countries that are members of CAB	£46.25
To subscribers in countries that are not members of CAB	£71.50

### *Back Numbers*

Back volumes of the *Bulletin of Entomological Research* are available and there are discounts up to a maximum of 20% on orders of more than 10 volumes.

Orders and enquiries concerning subscriptions and back numbers should be sent to

CENTRAL SALES,  
COMMONWEALTH AGRICULTURAL BUREAUX,  
FARNHAM ROYAL, SLOUGH SL2 3BN, UK.

[Note: Prices are subject to change without notice.]

© Commonwealth Agricultural Bureaux. 1984. All rights reserved. No part of this publication may be reproduced in any form or by any means, electronically, mechanically, by photo-copying, recording or otherwise, without the prior permission of the copyright owner.

The Executive Council of the Commonwealth Agricultural Bureaux is a signatory to the Fair Copying Declaration, details of which can be obtained from The Royal Society, 6 Carlton House Terrace, London S.W.1.

The Commonwealth Agricultural Bureaux organisation does not accept responsibility for any trade advertisement included in this publication.