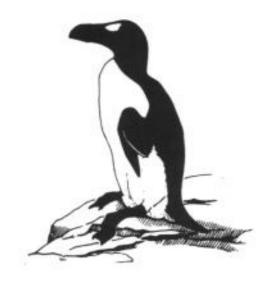
The Auk

A Quarterly Journal of Ornithology

Vol. 97 No. 2 April 1980



CONTENTS

BEHAVIOR OF THE GREY-CAPPED SOCIAL WEAVER (Pseudonigrita arnaudi) IN KENYA. Nicholas E. Collias and Elsie C. Collias
RAINFALL ON THE GALÁPAGOS AND THE DEMOGRAPHY OF DARWIN'S FINCHES. Peter R. Grant and Peter T. Boag
Acquisition of Plumage Polymorphism in White-throated Sparrows. Carter T. Atkinson and C. John Ralph
Range Expansion and Diurnal Changes in Dispersion of the Brown-headed Cowbird in the Sierra Nevada. Stephen I. Rothstein, Jared Verner, and Ernest Stevens
THE BREEDING BIOLOGY OF THE FORK-TAILED STORM-PETREL (Oceanodroma furcata). P. Dee Boersma, Nathaniel T. Wheelwright, Mary K. Nerini, and Eugenia Stevens Wheelwright
GEOGRAPHICAL VARIATION IN THE AVIFAUNAS OF TROPICAL FOREST UNDERGROWTH. James R. Karr
Brown-Headed Cowbird (Molothrus ater) Mortality in an Urban Winter Roost. D. M. Johnson, G. L. Stewart, M. Corley, R. Ghrist, J. Hagner, A. Ketterer, B. McDonnell, W. Newsom, E. Owen, and P. Samuels
A Morphological Approach to the Study of Avian Community Organization. Robert E. Ricklefs and Joseph Travis
WATER DEPENDENCE OF BIRDS IN A TEMPERATE OAK WOODLAND. Pamela L. Williams and Walter D. Koenig
GUILDS AND COMMUNITY ORGANIZATION: ANALYSIS OF AN OAK WOODLAND AVIFAUNA IN SONORA, MEXICO. Peter B. Landres and James A. MacMahon
SEVENTEEN BIRD SPECIES NEW TO PERU FROM THE PAMPAS DE HEATH. Gary L. Graham, Gary R. Graves, Thomas S. Schulenberg, and John P. O'Neill
LITTLE BLUE HERON BREEDING BEHAVIOR. James A. Rodgers, Jr.
THE FORMATION OF ANTWREN FLOCKS ON BARRO COLORADO ISLAND, PANAMÁ. Judy Gradwohl and Russell Greenberg
SHORT COMMUNICATIONS Nest Grouping and Productivity in the House Sparrow. W. Bruce McGillivray
Louisiana Herons Gleaning Dragonflies. E. Scott Clark
Aspects of the Annual Cycle in Highland Populations of the Rufous-collared Sparrow, Zonotrichia capensis. Paul Handford
The Cackle Call of Female Blue Grouse: Does It Have a Mating or Aggressive Function? Susan J. Hannon
First Records of the Spotted Rail (Pardirallus maculatus) on the Island of Hispaniola. Annabelle Stock- ton Dod
A Nest of the White-plumed Antbird (Pithys albifrons) in Surinam. Johan Ingels

(Continued on inside front cover)

PUBLISHED BY

THE AMERICAN ORNITHOLOGISTS' UNION Washington, D.C.

COMMENTARY. THEORY AND OBSERVATION IN MODERN ORNITHOLOGY: A FORUM	409
Ornithologists as Unconscious Theorists. John R. Krebs	409
Welcome Mathematicians. John T. Emlen	412
"When I Grow Up" Martin Cody	414
Ornithological Theory: Whence and Whither? James R. King	415
On Digesting a Theory. H. Ronald Pulliam	418
On the Philosophical Basis of Ornithology. Stephen D. Fretwell	420
Mathematics, Ecology, and Ornithology. Simon A. Levin	422
Reviews. Edited by Walter Bock	426
Notes and News 252, 282, 338.	384

THE AMERICAN ORNITHOLOGISTS' UNION (FOUNDED 1883)

OFFICERS FOR 1979-80

- President: HARRISON B. TORDOFF, Bell Museum of Natural History, University of Minnesota, Minnesota, Minnesota 55455.
- President-Elect: James R. King, Laboratory of Zoophysiology, Washington State University, Pullman, Washington 99163.
- Vice-President: JOHN WILLIAM HARDY, Florida State Museum, University of Florida, Gainesville, Florida 32601.
- Editor of The Auk: John A. Wiens, Department of Biology, University of New Mexico, Albuquerque, New Mexico 87131.
- Secretary: Kendall W. Corbin, Bell Museum of Natural History, University of Minnesota, Minnesota, Minnesota 55455.
- Treasurer: JOEL CRACRAFT, Department of Anatomy, University of Illinois at the Medical Center, Chicago, Illinois 60680.
- Editor of Ornithological Monographs: MERCEDES S. FOSTER, Museum of Vertebrate Zoology, University of California, Berkeley, California 94720.

Persons interested in birds are invited to join The American Ornithologists' Union. Dues are \$18 per year (\$16 for new members); student memberships are \$14 (\$12 for new members). All members receive THE AUK. Subscription price to institutions and nonmembers is \$20. For single copies and back issues write the Treasurer. A Life Membership is \$480, paid in one lump sum or in four installments of \$120. Any person may become a Patron with a gift or bequest of \$1,000, or a Benefactor with a gift or bequest of \$10,000. The names of Patrons and Benefactors are inscribed in perpetuity in the records. Contributions to the A.O.U. are tax deductible.

Send requests for information concerning membership, advertising, subscriptions, or back issues to the Treasurer. Information on or orders for ORNITHOLOGICAL MONOGRAPHS and other special publications may be obtained from Glen E. Woolfenden, Assistant to the Treasurer A.O.U., Department of Biology, University of South Florida, Tampa, Florida 33620. Communications may also be routed through the Union's permanent address: National Museum of Natural History, Smithsonian Institution, Washington, D.C. 20560.

Send change of address, payment of dues, or requests for undelivered issues of THE AUK to Sandra L. L. Gaunt, Director, Ornithological Societies of North America, Box 21160, Columbus, Ohio 43221.

Published quarterly (January, April, July, and October) by the American Ornithologists' Union. Business office: Joel Cracraft, Treasurer, Department of Anatomy, 1853 W. Polk St., University of Illinois at the Medical Center, Chicago, Illinois 60680. Printed by Allen Press Inc., Lawrence, Kansas, U.S.A. 66044. Second-class postage paid at Chicago, Illinois and at additional mailing office. Copyright 1980 by The American Ornithologists' Union. All rights reserved. Printed in U.S.A.