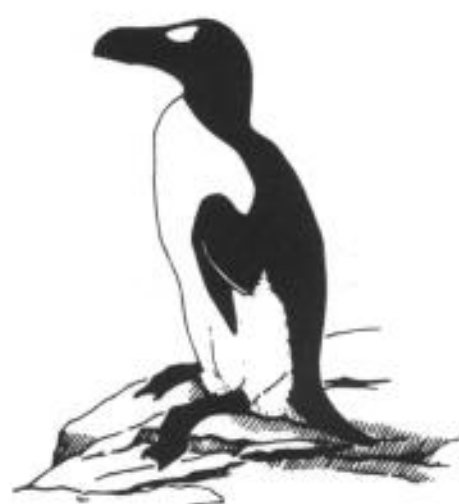


The Auk

A Quarterly Journal
of Ornithology

VOL. 103 No. 4 OCTOBER 1986
(ISSN 0004-8038)



CONTENTS

MORPHOLOGICAL AND VOCAL VARIATION ACROSS A CONTACT ZONE BETWEEN THE CHICKADEES <i>PARUS ATRICAPILLUS</i> AND <i>P. CAROLINENSIS</i> . Mark B. Robbins, Michael J. Braun, and Emily A. Tobey	655
EXTENSIVE PROTEIN SIMILARITY OF THE HYBRIDIZING CHICKADEES <i>PARUS ATRICAPILLUS</i> AND <i>P. CAROLINENSIS</i> . Michael J. Braun and Mark B. Robbins	667
MITOCHONDRIAL DNA: A SOURCE OF GENETIC MARKERS FOR STUDIES OF SIMILAR PASSERINE BIRD SPECIES. Andrew L. Mack, Frank B. Gill, Robert Colburn, and Christina Spolsky	676
EGG FORMATION IN CASSIN'S AUKLET. Lee B. Astheimer	682
FEMALE CHOICE IN MIDDENDORFF'S GRASSHOPPER-WARBLER (<i>LOCUSTELLA OCHOTENSIS</i>). Hisashi Nagata	694
LOW GENIC VARIATION BETWEEN BLACK DUCKS AND MALLARDS. C. Davison Ankney, Darrell G. Dennis, Lisa N. Wishard, and James E. Seeb	701
THE DIET OF AMERICAN ROBINS: AN ANALYSIS OF U.S. BIOLOGICAL SURVEY RECORDS. Nathaniel T. Wheelwright	710
DAILY ACTIVITY PATTERNS OF SOUTH POLAR AND BROWN SKUAS NEAR PALMER STATION, ANTARCTICA. Pamela J. Pietz	726
A PHYLOGENETIC ANALYSIS OF RECENT ANSERIFORM GENERA USING MORPHOLOGICAL CHARACTERS. Bradley C. Livezey	737
POPULATION ECOLOGY OF THE LONG-BILLED CURLEW (<i>NUMENIUS AMERICANUS</i>) IN WESTERN IDAHO. Roland L. Redmond and Donald A. Jenni	755
ROLE OF SIBLING AGGRESSION IN FOOD DISTRIBUTION TO NESTLING CATTLE EGRETS (<i>BIBULCUS IBIS</i>). Bonnie J. Ploger and Douglas W. Mock	768
FORAGING BEHAVIOR OF GENTOO AND CHINSTRAP PENGUINS AS DETERMINED BY NEW RADIOTELEMETRY TECHNIQUES. Wayne Z. Trivelpiece, John L. Bengtson, Susan G. Trivelpiece, and Nicholas J. Volkman	777
FEMALE SITE FIDELITY AND POLYGyny IN THE BLACKPOLL WARBLER (<i>DENDROICA STRIATA</i>). Bonita C. Eliason	782
DENSITY TRENDS AND RANGE BOUNDARY CONSTRAINTS OF FOREST BIRDS ALONG A LATITUDINAL GRADIENT. John T. Emlen, Michael J. DeJong, Michael John Jaeger, Timothy C. Moermond, Kurt A. Rusterholz, and Robin P. White	791
REIDENTIFICATION OF " <i>PHALACROCORAX</i> " <i>SUBVOLANS</i> BRODKORB AS THE EARLIEST RECORD OF ANHINGIDAE. Jonathan J. Becker	804
IN MEMORIAM: LESTER L. SNYDER. R. Charles Long and Jon C. Barlow	809
IN MEMORIAM: FINN SALOMONSEN. F. G. Cooch	811
IN MEMORIAM: FRANK RICHARDSON. Tony Angell	812

(Continued on inside front cover)

PUBLISHED BY
THE AMERICAN ORNITHOLOGISTS' UNION
Washington, D.C.

SHORT COMMUNICATIONS

Dynamics of Nest Parasitism in Wood Ducks. <i>Brad Semel and Paul W. Sherman</i>	813
Songbird Carcasses Disappear Rapidly from Agricultural Fields. <i>Richard Balcomb</i>	817
Changes in Plasma Prolactin Associated With Laying and Hatch in the Spotted Sandpiper. <i>Lewis W. Oring, Albert J. Fivizzani, and Mohamed E. El Halawani</i>	820
Composition and Quantity of Feather Sheaths Produced by White-crowned Sparrows During the Postnuptial Molt. <i>Mary E. Murphy and James R. King</i>	822
Estimating Nest Detection Probabilities for White-winged Dove Nest Transects in Tamaulipas, Mexico. <i>James D. Nichols, Roy E. Tomlinson, and Gary Waggener</i>	825
Diving Depths of Atlantic Puffins and Common Murres. <i>Alan E. Burger and Mark Simpson</i>	828
COMMENTARIES	
The Possible Impact of Observer Bias on Some Avian Research. <i>David F. Balph and H. Charles Romeburg</i>	831
Mass or Weight: What Is Measured and What Should Be Reported? <i>John W. Chardine</i>	832
Why Hummingbirds Hover: A Commentary. <i>F. Reed Hainsworth</i>	832
Response to F. R. Hainsworth. <i>Richard S. Miller</i>	834
The Adaptive Significance of Anting. <i>Paul R. Ehrlich, David S. Dobkin, and Darryl Wheye</i>	835
BOOK REVIEWS. Edited by M. Ross Lein	836
REPORT OF THE AMERICAN ORNITHOLOGISTS' UNION COMMITTEE FOR THE CONSERVATION OF THE RED-COCKADED WOODPECKER. <i>J. David Ligon, Peter B. Stacey, Richard N. Conner, Carl E. Bock, and Curtis S. Adkisson</i>	848
100 YEARS AGO IN THE AUK	693
NOTES AND NEWS	681, 700, 709, 736, 808, 830
ERRATUM	835
INDEX TO VOLUME 103. Compiled by Michelle Palmer	856

THE AMERICAN ORNITHOLOGISTS' UNION
(FOUNDED 1883)

OFFICERS FOR 1985-86

- President:* CHARLES G. SIBLEY, Tiburon Center for Environmental Studies, San Francisco State University, Box 855, Tiburon, California 94920.
- President-Elect:* GLEN E. WOOLFENDEN, Department of Biology, University of South Florida, Tampa, Florida 33620.
- Vice-President:* RICHARD C. BANKS, U.S. Fish and Wildlife Service, National Museum of Natural History, Washington, D.C. 20560.
- Editor of The Auk:* ALAN H. BRUSH, Department of Physiology and Neurobiology, University of Connecticut, Storrs, Connecticut 06268.
- Secretary:* STEPHEN M. RUSSELL, Ecology and Evolutionary Biology, University of Arizona, Tucson, Arizona 85721.
- Treasurer:* MARION A. JENKINSON, Museum of Natural History, University of Kansas, Lawrence, Kansas 66045.
- Editor of Ornithological Monographs:* DAVID W. JOHNSTON, Department of Biology, George Mason University, 4400 University Drive, Fairfax, Virginia 22030.

Persons interested in birds are invited to join The American Ornithologists' Union. Dues are \$26 per year; student memberships are \$18. Of this amount, \$18 are allocated to a subscription to *The Auk*. All members receive *The Auk*. Subscription price to institutions and nonmembers is \$35. For single copies and back issues write the Treasurer. A Life Membership is \$780, paid in one lump sum or in four installments of \$195. 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 Frank R. Moore, Assistant to the Treasurer A.O.U., Department of Biology, University of Southern Mississippi, Hattiesburg, Mississippi 39406. 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 Ornithological Societies of North America (OSNA), P.O. Box 21618, Columbus, OH 43221.

Published quarterly (January, April, July, and October) by the American Ornithologists' Union. Business office: OSNA, Department of Zoology, 1735 Neil Avenue, Ohio State University, Columbus, OH 43221. POSTMASTER: Send address changes to *The Auk*, OSNA, P.O. Box 21618, Columbus, OH 43221. Printed by Allen Press Inc., Lawrence, Kansas, U.S.A. 66044. Second-class postage paid at Columbus, Ohio and at additional mailing office. Copyright 1986 by The American Ornithologists' Union. All material in this journal may be copied for the noncommercial purpose of educational or scientific advancement without the need to seek specific permission.