

The Auk

A Quarterly Journal
of Ornithology

VOL. 108 No. 1 JANUARY 1991

(ISSN 0004-8038)



CONTENTS

STEREOSCOPIC VIEWS OF THREE-DIMENSIONAL, RECTANGULAR FLIGHT PATHS IN DESCENDING AFRICAN WHITE-BACKED VULTURES (<i>Gyps africanus</i>). Vance A. Tucker	1
BOTH HIGH- AND LOW-RANKING WHITE-THROATED SPARROWS FIND NOVEL LOCATIONS OF FOOD. R. Haven Wiley	8
A COMPARATIVE STUDY OF COWBIRD PARASITISM IN YELLOW-HEADED BLACKBIRDS AND RED-WINGED BLACKBIRDS. Catherine P. Ortega and Alexander Cruz	16
THE EFFECTS OF EXPERIENCE AND AGE ON THE BREEDING PERFORMANCE OF WESTERN GULLS. Peter Pyle, Larry B. Spear, William J. Sydeman, and David G. Ainley	25
ENERGETICS OF GROWTH AND MATURATION IN SYMPATRIC PASSERINES THAT FLEDGE AT DIFFERENT AGES. Patrick J. Mock, Marina Khubesrian, and Dee M. Larcheveque	34
SONG CATEGORIES AND THEIR FUNCTIONS IN THE FIELD SPARROW (<i>Spizella pusilla</i>). Douglas A. Nelson and Lisa J. Croner	42
HISTOLOGICAL BASIS OF AGE-RELATED CHANGES IN IRIS COLOR IN THE AFRICAN PIED STARLING (<i>Spreo bicolor</i>). Neville Sweijd and Adrian J. F. K. Craig	53
MATE SWITCHING IN MULTIBROODED HOUSE WRENS. Nancy E. Drilling and Charles F. Thompson	60
FIELD AND LABORATORY METABOLISM AND THERMOREGULATION IN DOVEKIES (<i>Alle alle</i>). Geir Wing Gabrielsen, Jan R. E. Taylor, Marek Konarzewski, and Fridtjof Mehlum	71
THE EFFECTS OF TANNINS AND LIPIDS ON DIGESTION OF ACORNS BY ACORN WOODPECKERS. Walter D. Koenig	79
SALT TOLERANCE IN AMERICAN BLACK DUCKS, MALLARDS, AND THEIR F1-HYBRIDS. Gregory G. Barnes and Thomas D. Nudds	89
SEASONAL PATTERNS OF REPRODUCTION IN HEATHLAND HONEYEATERS ARE NOT RESPONSES TO CHANGING NECTAR AVAILABILITY. Doug P. Armstrong and Graham H. Pyke	99
THE EFFECT OF MOLTING ON THE GLIDING PERFORMANCE OF A HARRIS' HAWK (<i>Parabuteo unicinctus</i>). Vance A. Tucker	108
VARIATION IN RESOURCE ABUNDANCE AFFECTS CAPTURE RATES OF BIRDS IN THREE LOWLAND HABITATS IN COSTA RICA. John G. Blake and Bette A. Loiselle	114
DIET AND POSTNATAL ENERGETICS IN CONVERGENT TAXA OF PLANKTON-FEEDING SEABIRDS. Daniel D. Roby	131
SEXUAL SELECTION AND PARASITES IN WOOD-WARBLERS. Patrick J. Weatherhead, Gordon F. Bennett, and Dave Shutler	147
OLDER MALES HAVE BIGGER KNOBS: CORRELATES OF ORNAMENTATION IN TWO SPECIES OF CURASSOW. Richard Buchholz	153
IN MEMORIAM: ROBERT M. MENGEL. Harrison B. Tordoff	161

(Continued on inside front cover)

PUBLISHED BY

THE AMERICAN ORNITHOLOGISTS' UNION

Washington, D.C.

IN MEMORIAM: KONRAD LORENZ. <i>Peter Marler</i>	164
SHORT COMMUNICATIONS	
Sequential Polyandry in the Common Redpoll (<i>Carduelis flammea</i>). <i>Gilles Seutin, Peter T. Boag, Bradley N. White, and Laurene M. Ratcliffe</i>	166
The Enigma of Multiple Nest Building by Male Marsh Wrens. <i>Karen J. Metz</i>	170
Facultative Helping by Pygmy Nuthatches. <i>William J. Sydeman</i>	173
Odor Detection Thresholds in Tree Swallows and Cedar Waxwings. <i>Larry Clark</i>	177
Feeding Time and Brood-rearing Capacity in the Common Treecreeper (<i>Certhia familiaris</i>). <i>Markku Kuitunen and Jukka Suhonen</i>	180
Diet of Murres Caught Incidentally during Winter in Northern Japan. <i>Haruo Ogi and Kouzi Shiomi</i>	184
The Type Locality of <i>Fringilla savanna</i> Wilson. <i>Kenneth C. Parkes and Robin K. Panza</i>	185
How Great Tits Use Song-Note and Whole-Song Features to Categorize their Songs. <i>Daniel M. Weary</i>	187
Identification of Nest Predators by Photography, Dummy Eggs, and Adhesive Tape. <i>Richard E. Major</i>	190
The Adaptive Value of Thick-shelled Eggs for Brown-headed Cowbirds. <i>Patrick J. Weatherhead</i>	196
EDITORIAL: The Conservation Crisis. <i>Terry Root and Peter Stacey</i>	199
COMMENTARIES	
The Conservation Crisis. The Red-cockaded Woodpecker: On the Road to Oblivion? <i>AOU Committee for the Conservation of the Red-cockaded Woodpecker</i>	200
The Taxonomic Status of the Small Genovesa Ground-Finch in the Galápagos. <i>Dolph Schluter, Laurene M. Ratcliffe, and Peter R. Grant</i>	201
Response to Schluter, Ratcliffe, and Grant. <i>Joseph Vagvolgyi and Maria W. Vagvolgyi</i>	204
The Use of Flow Cytometry for Rapid Identification of Sex in Birds. <i>Terrence R. Tiersch, Ronald L. Mumme, Robert W. Chandler, and Dean Nakamura</i>	206
On Forming an Ornithological Council. <i>Richard C. Banks</i>	208
The Interspecific Relationship Between Egg Size and Clutch Size in Wildfowl. <i>T. M. Blackburn</i>	209
Response to T. M. Blackburn. <i>Frank C. Rohwer</i>	211
WILLIAM BREWSTER MEMORIAL AWARD, 1990. <i>Fred Cooke</i>	214
BOOK REVIEWS. <i>Edited by Bruce M. Beehler</i>	216
100 YEARS AGO IN <i>THE AUK</i>	70
NOTES AND NEWS	113

THE AMERICAN ORNITHOLOGISTS' UNION (FOUNDED 1883)

OFFICERS FOR 1990-91

- President:** BURT L. MONROE JR., Department of Biology, University of Louisville, Louisville, Kentucky 40292.
- President-Elect:** BRINA KESSEL, Box 80211, College, Fairbanks, Alaska 99708.
- Vice President:** STU HOUSTON, 863 University Drive, Saskatoon, Saskatchewan S7N 0J8, Canada.
- Editor of The Auk:** ALAN H. BRUSH, Department of Physiology and Neurobiology, University of Connecticut, Storrs, Connecticut 06269.
- 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:** NED K. JOHNSON, Museum of Vertebrate Zoology, Life Sciences Building, University of California, Berkeley, California 94720.

Persons interested in birds are invited to join the American Ornithologists' Union. Dues are \$35 per year; student memberships are \$18. Membership is \$18.00 for persons in all countries except the United States, Canada, Israel, Japan, Australia, New Zealand, and the following Western European countries: Iceland, Norway, Sweden, Finland, Denmark, West Germany, Netherlands, Belgium, Luxembourg, France, the United Kingdom, Ireland, Switzerland, Austria, Italy, Spain, and Portugal. All members receive *The Auk* and North American members receive a bimonthly *Ornithological Newsletter*. Subscription price to institutions is \$60. A Life Membership is \$1,050, paid in one sum or four annual installments of \$262.50. Gifts of any amount for the Endowment Fund are welcome and should be sent to the Treasurer. The following major donation categories are recognized: Sponsor (\$1,000), Patron (\$3,000), Benefactor (\$10,000), and Guarantor (\$25,000). The names of Sponsors, Patrons, Benefactors, and Guarantors are inscribed in perpetuity in the AOU records. Gifts to the AOU are tax deductible to the extent permitted by law.

Send requests for information concerning membership, advertising, and back issues to the Treasurer. Information about, or orders for, *Ornithological Monographs* and other special publications should be sent to: Max C. Thompson, Assistant to the AOU Treasurer, Department of Biology, Southwestern College, 100 College Street, Winfield, Kansas 67156. Communications may also be routed through the AOU's permanent address: Division of Ornithology, National Museum of Natural History, Washington, D.C. 20560.

Send change of address, payment of dues, subscription requests, or requests for undelivered issues of *The Auk* to Ornithological Societies of North America (OSNA), P.O. Box 1897, Lawrence, Kansas 66044-8897.

THE AUK (ISSN 0004-8038) is published quarterly (January, April, July, and October) for \$60.00 per year (to institutions) by the American Ornithologists' Union, 810 East 10th Street, Lawrence, KS 66044-8897. Second-class postage paid at Lawrence, KS. POSTMASTER: Send address changes to *The Auk*, P.O. Box 1897, Lawrence, KS 66044-8897. Copyright 1991 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.