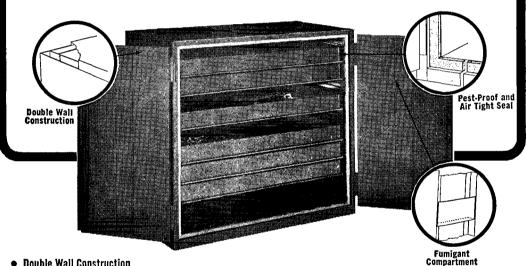
How many years would it take to replace your collection?

Safe-guard your valuable specimens

PERMANENT SPECIMEN PRESERVATION

ZOOLOGY AND ORNITHOLOGY SPECIMEN CABINETS



- Double Wall Construction
 - Pest-Proof and Air Tight Seal
 - Double Panel Door
 - Lift-Off Safe Type Hinge
 - Fumigant Compartment
 - 3-Point Locking Mechanism
 - Front and Back Air Tight Seals
 - Specimen Trays of Aluminum and Masonite. Lightweight, sturdy and easy to handle.

FOR ILLUSTRATED BROCHURE, WRITE



Skin Case #201 (illustrated) Holds large trays for larger specimens.

Skin Case # 202 (not illustrated) Divided for half-size trays for smaller specimens.

Please send complet ogy Specimen Cabine	e details on Lane Zoology and Ornithol-
Name	Title
nstitution	
\ddress	
N:4	ZoneState

LAST CHANCE! SPECIAL SALE OF BACK ISSUES OF ORNITHOLOGICAL MONOGRAPHS

Sale ends 31 December 1978

All available A.O.U. Ornithological Monographs published prior to 1977 (including Nos. 1-3, 5-7, 9-12) will be sold at discounts of 20% (with purchase of 1 to 4 monographs), 30% (purchase of 5 to 9 monographs), and 40% (purchase of 10 or more). Persons interested should send a prepaid order based on the prices given below, including a \$0.20 handling/postage charge for each issue ordered, to Glen E. Woolfenden, Assistant to the Treasurer A.O.U., Department of Biology, University of South Florida, Tampa, Florida 33620.

- No. 1. A Distributional Study of the Birds of British Honduras, by Stephen M. Russell. 195 pp., 2 color plates, 1964. Price \$5.50.
- No. 2. A Comparative Study of Some Social Communications Patterns in the Pelecaniformes, by Gerard Frederick van Tets. 88 pp., 49 text figures. 1965. Price \$2.50.
- No. 3. The Birds of Kentucky, by Robert M. Mengel. Clothbound, 581 pp., 4 color plates plus text figures and vignettes. 1965. Price \$12.50.
- No. 4. Evolution of Some Arctic Gulls (Larus): an Experimental Study of Isolating Mechanisms, by Neal Griffith Smith. 99 pp., 62 text figures. 1966. Out of print.
- No. 5. A Comparative Life-history Study of Four Species of Woodpeckers, by Louise de Kiriline Lawrence, 156 pp., 33 text figures. 1967. Price \$4.50.
- No. 6. Adaptations for Locomotion and Feeding in the Anhinga and the Double-crested Cormorant, by Oscar T. Owre. 138 pp., 56 text figures. 1967. Price \$4.50.

PRESTIGIOUS WORKS FROM JOHNSON REPRINT CORPORATION Publishers of Limited Facsimile Editions

A Monograph of the Paradiseidae or Birds of Paradise





Over one hundred years ago, Daniel Giraud Elliot studied the Birds of Paradise and, merging his words with stunning illustrations by Joseph Wolf, published this unique work in 1873. Now, a special limited edition of 500 copies has been printed. 250 copies are handbound by Zaehnsdorf of London; the balance are in portfolio format.

- 196 pages. 36 hand-colored plates painted by J. Wolf.
- Three-quarter leather binding, tooled in gold.
- Paper specially manufactured to match the original.
- Folio: 49 x 62 centimeters (18¾" x 23¾")
- Price: Handbound Edition \$995.00; Portfolio Edition

Published by Johnson Reprint Corporation and Theatrum Orbis Terrarum Ltd.



Write for our catalogue.

IOHNSON REPRINT CORPORATION A Subsidiary of Harcourt Brace Jovanovich, Publishers

No. 7. A Distributional Survey of the Birds of Honduras, by Burt L. Monroe, Jr. 458 pp., 2 color plates, 28 text figures, 1968. Price \$11.00.

No. 8. An Approach to the Study of Ecological Relationships of Grassland Birds, by John A. Wiens., 93 pp., 30 text figures. 1969. Out of print.

No. 9. Mating Systems, Sexual Dimorphism, and the Role of Male North American Passerine Birds in the Nesting Cycle, by Jared Verner and Mary F. Willson. 76 pp. 1969. Price \$3.00.

No. 10. *The Behavior of Spotted Antbirds*, by Edwin O. Willis. vi + 162 pp., 3 color plates. 27 text figures. 1972. Price \$7.50.

No. 11. Behavior, Mimetic Songs and Song Dialects, and Relationships of the Parasitic Indigobirds (Vidua) of Africa, by Robert B. Payne. vi + 333 pp., 2 color plates, 50 text figures, 40 audiospectographs. 1973. Price \$10.00.

No. 12. Intra-island Variation in the Mascarene White-eye Zosterops borbonica, by Frank B. Gill. vi + 66 pp., 1 color plate, 31 text figures. 1973. Price \$2.50.

No. 13. **Evolutionary Trends in the Neotropical Ovenbirds and Woodhewers**, by Alan Feduccia. iv + 69 pp., 20 text figures. 1973. Price \$2.50.

No. 14. A Symposium on the House Sparrow (Passer domesticus) and European Tree Sparrow (P. montanus) in North America, S. Charles Kendeigh, chairman. vi + 121 p., 25 text figures. 1973. Price \$4.50.

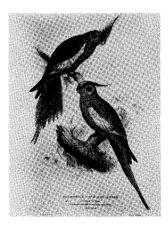
No. 15. Functional Anatomy and Adaptive Evolution of the Feeding Apparatus in the Hawaiian Honeycreeper Genus Loxops (Drepanididae), by Lawrence P. Richards and Walter J. Bock. vii + 173 pp., 14 text figures + 26 plates. 1973. Price \$7.50.

No. 16. *The Red-tailed Tropicbird on Kure Atoll*, by Robert R. Fleet. vi + 64 pp., 34 text figures, 5 tables. 1974. Price \$4.50.

Limited Facsimile Edition

Illustrations of the Family of Psittacidae, or Parrots

EDWARD LEAR



The facsimile edition of an exquisite collection of 42 hand-colored lithographs of parrots — most of them drawn from life. Superb in its artistic and historical vision.

The facts:

- Three-quarter leather binding, tooled in gold.
- Paper specially selected to bring out the highlights of the very intense colors.
- 42 plates and 8 pages of text.
- Edition: Strictly limited to 530 copies for the world, of which 500 are for sale.
- Large folio: 14" x 21" (35 x 53.5 cm)

Price: \$1100/£570

Publication Date: October, 1978

JOHNSON REPRINT CORPORATION

A Subsidiary of Harcourt Brace Jovanovich, Publishers 111 FIFTH AVENUE, NEW YORK, N.Y. 10003

PION LTD.

207 BRONDESBURY PARK, LONDON NW2 5JN

- No. 17. Comparative Behavior of the American Avocet and the Black-necked Stilt (Recurvirostridae), by Robert Bruce Hamilton. vi + 98 pp., 18 text figures, 19 tables. 1975. Price \$6.00.
- No. 18. Breeding Biology and Behavior of the Oldsquaw (Clangula hyemalis L.), by Robert M. Alison. v + 52 pp., 13 text figures. 1975. Price \$2.50.
- No. 19. Bird Populations of Aspen Forests in Western North America, by J. A. Douglas Flack. viii + 97 pp., frontis., 56 text figures, appendix. 1976. Price \$6.00.
- No. 20. Sexual size Dimorphism in Hawks and Owls of North America, by Noel F. R. Snyder and James W. Wiley. vi + 95 pp., frontis., 14 text figures, appendix. 1976. Price \$6.00.
- No. 21. Social Organization and Behavior of the Acorn Woodpecker in Central Coastal California, by Michael H. MacRoberts and Barbara R. MacRoberts. viii + 115 pp., 23 text figures, 2 appendices. 1976. Price \$6.00.

Also available, at the regular, non-sale prices are:

- No. 22. Maintenance Behavior and Communication in the Brown Pelican, by Ralph W. Schreiber. viii + 78 pp., 38 text figures. 1977. Price \$6.50 (\$5.00 to AOU members).
- No. 23. **Species Relationships in the Avian Genus Aimophila**, by Larry L. Wolf. viii + 220 pp., 17 text figures + 10 plates, long-play phono disc album. 1977. Price \$12.00 (\$10.50 to AOU members).
- No. 24. Land Bird Communities of Grand Bahama Island: The Structure and Dynamics of an Avifauna, by John T. Emlen. xi + 129 pp., 38 text figures, appendix. 1977. Price \$9.00 (\$8.00 to AOU members).
- No. 25. **Systematics of Smaller Asian Night Birds Based on Voice**, by Joe T. Marshall. viii + 58 pp., frontispiece, 15 plates, phono disc supplement, appendices I–III. 1978. Price \$7.00 (\$6.00 to AOU members).
- No. 26. **Ecology and Behavior of the Prairie Warbler Dendroica discolor**, by Val Nolan, Jr. xx + 595 pp., color frontispiece, 42 text figures, 8 appendices. 1978. Price \$29.50.

SPECIAL SALE OF BACK ISSUES OF THE AUK

Most of the available back issues of THE AUK are for sale for a limited time at a 70% discount. Rarer issues will not be discounted but still may be purchased at current prices while supplies last. For further information and a copy of the price list contact **Dr. Joel Cracraft**, **Treasurer A.O.U.**, **Department of Anatomy**, **University of Illinois at the Medical Center**, **P.O. Box 6998**, **Chicago**, **Illinois 60680**.

The Bluebird

How You Can Help Its Fight for Survival

BY LAWRENCE ZELENY

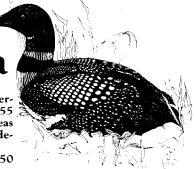
". . . truly inspiring Dr. Zeleny discusses the natural history of each of our three native bluebird species and the major reasons for the sharp decline in eastern bluebird populations. He then explains how people can act to counter these threats an enlightening book." —Conservation News

192 pages, drawings, photos, color plates

paper \$4.95

Waterfowl of North America

"There are many books on North American waterfowl, but this one tops them all.... It deals with 55 species and truly covers North America, all areas from Panama north." - Iowa Bird Life "... a definitive work on waterfowl." -The Loon 624 pages, drawings, maps, photos \$27.50



Enjoying Indiana Birds

BY ALFRED (BUD) STARLING DRAWINGS BY DONNA L. McCARTY

". . . reflects a lifetime of experience on the part of a man obviously at one with nature and at home in the field. . . . This book should have a readership well beyond the borders of Indiana." —Roger Tory Peterson

384 pages, 112 line drawings

\$15.00 (prepub. price until 1/1/79, \$17.50 thereafter)

Born to Sing

An Interpretation and World Survey of Bird Song

BY CHARLES HARTSHORNE

"A wide-ranging survey of bird song, from the biological, psychological, and esthetic viewpoints, in which the author holds that bird song is more than a matter of territorial advertising. . . . Stimulating reading." - American Birds ". . . subtle, fascinating, and immensely learned. . . ." —Washington Post

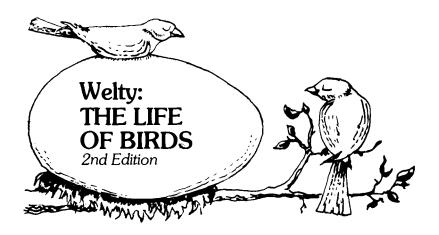






INDIANA NIVERSITY

10th & Morton Streets Bloomington, Indiana 47401



Lively and well-written, this text gives you a fascinating and complete introduction to ornithology. Hailed in its first edition as "the best general reference book on birds to appear . . . in this country," the second edition is equally impressive. Recent findings are included on bird behavior, the significance of conservation to bird population, man's effects upon birds, territorial instinct, migration, and population dynamics. A must for bird enthusiasts at any level. By Joel Carl Welty, Professor Emeritus of Biology, Beloit College. 623 pp. 290 ill. \$19.75. June 1975. Order #9231-1.

Please send on 30-day app (9231-1) Welty: THE LIFE		d.	AUK10/7
\$19.75			
☐ Check enclosed (Saunde	ers pays postage)	☐ Bill me	
FULL NAME (PLEASE PRINT) POSITION & AFFILIATION (IF APPLICA	BLE)		
ADDRESS			
CITY	STATE	ZIP	
(Prices subject to change)			

The Auk

A Quarterly Journal of Ornithology

EDITOR

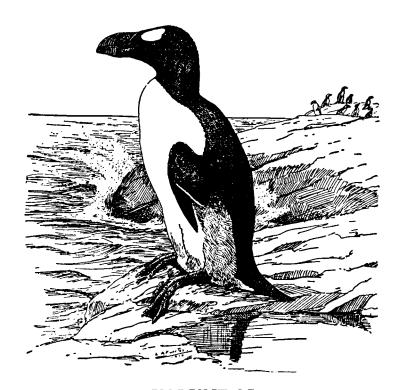
JOHN A. WIENS

Assistant Editor

DONA HEYDEN

ASSOCIATE EDITORS

WALTER BOCK, HERBERT W. KALE II, JEAN FERNER, MARTHA M. WIENS



VOLUME 95

PUBLISHED BY

THE AMERICAN ORNITHOLOGISTS' UNION

1978

Dates of Issues of "The Auk" Vol. 95, No. 1—6 February 1978 Vol. 95, No. 2—28 April 1978 Vol. 95, No. 3—22 August 1978 Vol. 95, No. 4—5 January 1979

CONTENTS OF VOLUME 95

ON BEHAVIOR AND NESTING OF McCONNELL'S FLYCATCHER (PIPROMORPHA MACCONNELLI): DOES FEMALE REJECTION LEAD TO MALE PROMISCUITY? Edwin O. Willis, Douglas Wechsler, and Yoshika Oniki
FIELD SPARROW REPRODUCTIVE SUCCESS AND NESTING ECOLOGY. Louis B. Best
FEEDING TERRITORIES AND BREEDING SUCCESS OF SOUTH POLAR SKUAS. Fritz Trillmich
Vocal Repertoire of the Black-capped Chickadee. Millicent S. Ficken, Robert W. Ficken, and Steve R. Witkin
GILA WOODPECKER AGONISTIC BEHAVIOR. Gene L. Brenowitz
ISLAND COLONIZATION BY LESSER ANTILLEAN BIRDS. John Terborgh, John Faaborg, and H. Jane Brockmann
GEOGRAPHIC VARIATION OF YELLOW WARBLERS KILLED AT A TV TOWER. Dennis G. Raveling and Dwain W. Warner
FALCON TEMPERATURE REGULATION. James A. Mosher and Clayton M. White
GEOGRAPHIC VARIATION IN THE "HOY" CALL OF THE BOBWHITE. Raymond B. Goldstein
Age-related Differences in Ruddy Turnstone Foraging and Aggressive Behavior. Sarah Groves
THE MOBILITY OF BREEDING PINTAILS. Scott R. Derrickson
Bursae, Reproductive Structures, and Scapular Color in Wintering Female Old- squaws. Steven R. Peterson and Robert S. Ellarson
GYRFALCON NESTING BEHAVIOR FROM HATCHING TO FLEDGING. M. Alan Jenkins
Variation in Reproductivity with Age in the Brown Pelican. Lawrence J. Blus and Julie A. Keahey
THE RELATIONSHIP BETWEEN EGG SIZE AND CHICK SIZE IN THE LAUGHING GULL AND JAPANESE QUAIL. Robert E. Ricklefs, D. Caldwell Hahn, and William A. Montevecchi
RED-COCKADED WOODPECKER FALL MOVEMENTS IN A FLORIDA FLATWOODS COMMUNITY. Stephen A. Nesbitt, D. Terry Gilbert, and D. Bruce Barbour
GEOGRAPHICAL VARIATION IN THE NESTLING COLORATION OF PARASITIC COWBIRDS. Stephen I. Rothstein
COWBIRD PARASITISM IN THE KANSAS TALLGRASS PRAIRIE. Phillip F. Elliott
LATITUDINAL VARIATION OF POSTNUPTIAL MOLT IN PACIFIC COAST WHITE-CROWNED SPARROWS. L. Richard Mewaldt and James R. King
SUMMER FOODS OF SANDHILL CRANES IN IDAHO. William H. Mullins and Elwood G. Bizeau
SHORT COMMUNICATIONS Prealternate molt in Nuthatches. Richard C. Banks
Triphasic feeding behavior and the esophageal diverticulum in redpolls. William S. Brooks
Aggressive display in the Common Loon. Lynda Rummel and Charles Goetzinger
Male Pintails defending females from rape. Richard A. Wishart and Richard W. Knapton
Rape behavior in Blue-winged Teal. Robert O. Bailey, Norman R. Seymour, and Gary R. Stewart A device for measuring egg volumes. Robert W. Lostin and Ray D. Bowman
Observations on behavior and vocalizations of a pair of wild Harpy Eagles. Michael Gochfeld, Michael Kleinbaum, and Guy Tudor
Temperature-dependent reduction of individual distance in captive House Sparrows. Kathleen Grabaskas Beal
Imprinting of a Ring-billed Gull. Marcella M. Bishop Regulation of metabolism during torpor in "temperate" zone hummingbirds. F. Reed Hainesworth and Larry L. Wolf The duration of parental care in the Common Tody Flycatcher. F. Haverschmidt
Brewster and Coues Awards, 1977
REVIEWS. Edited by Walter Bock
Notes and News
Editor's Comments
POLICIES ON PURILICATION COSTS IN THE ALIK

An Analysis of the Predatory Behavior of the Loggerhead Shrike. Robert B. Craig
Breeding Biology of the Savannah Sparrow on Kent Island. Clara L. Dixon
Daily Time Budget of the Postnesting Verdin. George T. Austin
NEST SITE SELECTION AND COMPETITIVE INTERACTIONS OF HERRING AND LAUGHING GULLS IN NEW JERSEY. Joanna Burger and Joseph Shisler
Nest Site Characteristics among Five Species of Herons on the North Carolina Coast Donald A. McCrimmon, Jr.
Notes on Birds of San Salvador Island (Watlings), The Bahamas. J. Robert Miller
RADIOTELEMETRY OF HEART RATES FROM FREE-RANGING GULLS. John W. Kanwisher, Timothy C. Williams, John M. Teal, and Kenneth D. Lawson, Jr.
TIMING OF EGG LAYING BY NORTHERN GEESE. Dennis G. Raveling
EXPERIMENTAL ANALYSIS OF NEST PREDATION IN AN OLD-FIELD HABITAT. Bradley M. Gottfried and Charles F. Thompson
EVOLUTION IN THE HOUSE SPARROW—VI. VARIABILITY AND NICHE WIDTH. Suzanne Hamilton and Richard F. Johnston
A GUIDE TO FORMING AND CAPITALIZING COMPOUND NAMES OF BIRDS IN ENGLISH. Kenneth.
A Comparative Nesting Study of Red-tailed Hawks and Harris' Hawks in Southern Arizona. William J. Mader
Some Parameters of Song Important in Conspecific Recognition by Gray Catbirds Lauriel E. Fletcher and Douglas G. Smith
NOMENCLATURE OF THE BLACK-BELLIED WHISTLING-DUCK. Richard C. Banks
FACTORS AFFECTING NESTING SUCCESS OF THE GLOSSY IBIS. Lynne M. Miller and Joanna Burger
Some Characteristics of Conditioned Aversion in Red-winged Blackbirds. John G Rogers, Jr.
Weather-dependent Foraging Rates of Wintering Woodland Birds. Thomas C Grubb, Jr .
Apostatic Selection and Kleptoparasitism in the Parasitic Jaeger. Einar Arnason
Ontogeny of Vocalization in the Greater Rhea. Paul W. Beaver
DIFFERENTIAL RESPONSE OF TERRITORIAL YELLOWTHROATS TO THE SONGS OF NEIGHBORS AND NON-NEIGHBORS. Joseph M. Wunderle, Jr.
WINTERING BEHAVIOR OF COMMON LOONS. Judith W. McIntyre
HABITAT SELECTION IN TWO SPECIES OF SPIZELLA: A CONCURRENT LABORATORY AND FIELD STUDY. James J. Hebrard
SHORT COMMUNICATIONS
On the Status of Xolmis dominicana, Gordon H. Orians Auditory Censusing of Greater Sandhill Cranes, Alan J. Bennett
Supplementary List of New Birds for Rio Grande do Sul, Brazil. William Belton
Cowbird Parasitism on the White-crowned Sparrow. Lewis Petrinovich and Thomas Patterson
Status and Nesting of the Yellow-billed Cuckoo in Puerto Rico. Cameron B. Kepler and Angela K. Kepler
One Deleterious Effect of Mobbing in the Southern Lapwing (Vanellus chilensis). J. P. Myers First North American Record of the Streaked Shearwater (Puffinus leucomelas). G. Victor Morejohn
Species of Formicariidae New to Colombia. Stephen M. Russell and Donald W. Lamm
Influence of Solute Concentration in Albumen on Water Loss from Avian Eggs. Theodore L. Taigen, Gary C. Packard Paul R. Sotherland, and L. R. Hanka
Bald Eagles Nesting in Baja California. Charles J. Henny, Daniel W. Anderson, and C. Eugene Knoder Rejecta Cast from Heron Nests as an Indicator of Food Chain Contamination. W. H. Rickard, J. D. Hedlund, and R. G. Schreckhise
Second Occurrence and First Successful Nesting Record of the Hook-billed Kite in the United States. Don Delnicki Record of Prolonged Incubation by a Killdeer. Leon R. Powers Emberiza variabilis and Ficedula parva New to North America and the Aleutian Islands, Alaska. Daniel D. Gibson and George E. Hall
First North American Records of Siberian House Martin Delichon urbica lagopoda. George E. Hall and Eugene A Cardiff
Reviews. Edited by Walter Bock
Obituaries
REVIEWERS FOR THE AUK, 1976-77 ERRATA
Notes and News 203 361 36

HYBRIDIZATION BETWEEN GULLS (LARUS GLAUCESCENS AND L. OCCIDENTALIS) IN THE PACIFIC NORTHWEST. Wayne Hoffman, John A. Wiens, and J. Michael Scott441
NUTRIENT RESERVES AND REPRODUCTIVE PERFORMANCE OF FEMALE LESSER SNOW GEESE. C. Davison Ankney and Charles D. MacInnes 459
COOPERATIVE BREEDING BEHAVIOR IN THE WHITE-BROWED SPARROW WEAVER. Nicholas E. Collias and Elsie C. Collias
PARENT-OFFSPRING INTERACTIONS IN ZEBRA FINCHES. Robert E. Muller and Douglas G. Smith 485
On the Breeding Distribution Pattern of European Migrant Birds: MacArthur's Theme Reexamined. Carlos M. Herrera
EFFECTS OF HUMAN DISTURBANCE ON BREEDING OF DOUBLE-CRESTED CORMORANTS. Laurence N. Ellison and Lynn Cleary
DISTRIBUTION AND ABUNDANCE PATTERNS OF THE PALILA ON MAUNA KEA, HAWAII. Charles van Riper, III, J. Michael Scott, and David M. Woodside518
ORIGIN AND EVOLUTION OF THE EASTERN HOUSE FINCH POPULATION. John W. Aldrich and John S. Weske 528
Hybridization in Califite Hummingbirds. Shirley Wells, Richard A. Bradley, and Luis F. Baptista
Possible Specialization for Hummingbird-Hunting in the Tiny Hawk. F. Gary Stiles 550
PRE-ROOSTING FLIGHT OF THE CLARK'S NUTCRACKER. Diana F. Tomback 554
AUDIBILITY THRESHOLDS OF THE BLUE JAY. Steven M. Cohen, William C. Stebbins, and David B. Moody
Adélie Penguin (PYGOSCELIS ADELIAE) EMBRYONIC DEVELOPMENT AT DIFFERENT TEMPERA- TURES. Jerome A. Weinrich and John R. Baker
SHORT COMMUNICATIONS
The Development of Shell-cracking Behavior in Herring Gulls. Agnar Ingolfsson and Bruce T. Estrella 577 Reproductive Ecology of the Sage Thrasher (Oreoscoptes montanus) on the Snake River Plain in South-central Idaho. Timothy D. Reynolds and Terrell D. Rich 580
Mice as a Source of Egg Loss Among Ground-nesting Birds. Stephen J. Maxson and Lewis W. Oring
Fratricide and Cannibalism in Swainson's Hawk. Wayne R. Pilz and Linda K. Seibert 584 Land Birds in the Stomachs of Tiger Sharks Galeocerdo cuvieri (Peron and Lesueur). Jon W. Dodrill and R. Grant Gilmore 585
Land Birds in the Stomachs of Tiger Sharks Galeocerdo cuvieri (Peron and Lesueur). Jon W. Dodrill and R. Grant Gilmore 585 Foraging Success in Three Age Classes of Glaucous-winged Gulls. William A. Searcy 586
Sexual Chase in Purple Martins. Charles R. Brown588
Snowy Egret in the Strait of Magellan. Nathaniel T. Wheelwright 590
Undependable Breeding Conditions in the Red Phalarope. Harold F. Mayfield 590 Metabolic Heat Production in the Chukar Partridge. M. L. Laudenslager and H. T. Hammel 591
A Probable First North American Record of the Greater Antillean Race of Black-whiskered Vireo. Henry M. Stevenson 595
Stomach Contents of Clark's Nutcrackers Collected in Western Montana. Mervin Giuntoli and L. Richard Mewaldt 595
Observations and Reinterpretation of Kingfisher-Raptor Interactions. Ronald E. Kirby and Mark R. Fuller
Acoustical Properties of the Swoop-and-soar Call of the Ring-billed Gull. Michael R. Conover and Don E. Miller 599
Interspecific Vocal Imitation of White-eyed Vireos. Curtis S. Adkisson and Richard N. Conner 602
Two Successive Male Eastern Bluebirds Tending the Same Nest. Benedict C. Pinkowski 606 Effects of Interspecific Dominance Among Egrets Commensally Following Roseate Spoonbills. James K. Russell 608
Osprey Trapped by Water Chestnut. Jeff Connor 610
A Jabiru (Jabiru mycteria) Specimen from Texas. Keith A. Arnold
COMMENT: INTERSPECIFIC TERRITORIALITY IN HUMMINGBIRDS. Bertram G. Murray, Jr 613
AUTHORS' RESPONSE. David L. Lyon 613
REVIEWS. Edited by Walter Bock 614
Notes and News
Editorial Announcement to Authors 517

Breeding Behavior of the Harpy Eagle (Harpia harpyja). Neil L. Rettig	9
THE ENERGETIC CONSEQUENCES OF INCUBATION FOR TWO PASSERINE SPECIES. Glenn E. Walsberg and James R. King 644	4
CLUTCH SIZE VARIATION IN THE EASTERN PHOEBE IN SOUTHERN INDIANA. Harmon P. Weeks, Jr	6
ACTIVITY BUDGETS, ENERGY EXPENDITURES, AND ENERGY INTAKES OF NESTING FERRUGINOUS HAWKS. James S. Wakeley	7
COMMENSALISM IN THE LITTLE BLUE HERON. James A. Kushlan 677	7
STILL ANOTHER PARULID INTERGENERIC HYBRID (Mniotilta × Dendroica) AND ITS TAXONOMIC AND EVOLUTIONARY IMPLICATIONS. Kenneth C. Parkes	2
GENETIC VARIATION AND DIFFERENTIATION IN THE PARULIDAE. George F. Barrowclough and Kendall W. Corbin	1
COMPLEX SINGING BEHAVIORS AMONG Cistothorus WRENS. Donald E. Kroodsma and Jared Verner	3
REORIENTATION OF NOCTURNAL LANDBIRD MIGRANTS OVER THE ATLANTIC OCEAN NEAR NOVA SCOTIA IN AUTUMN. W. John Richardson	7
FEEDING HABITAT USE BY COLONIALLY-BREEDING HERONS, EGRETS, AND IBISES IN NORTH CAROLINA. Thomas W. Custer and Ronald G. Osborn	3
SHORT COMMUNICATIONS	
Interspecific Nest Parasitism in the Savannah Sparrow. Patrick J. Weatherhead and Raleigh J. Robertson 744 First United States Record of Paint-billed Crake (Neocrex erythrops). Keith A. Arnold 745	
A Nesting Threesome of Lapland Longspurs. Gerard W. Beyersbergen	5
Diurnal Behavior of an Eurasian Woodcock (Scolopax rusticola). Sheldon R. Severinghaus748	3
Notes on the Standard Body Measurements of Two Populations of Herring Gulls (Larus argentatus). William Threlfall and David D. Jewer	9
Individual Differences in the Head and Neck Plumage of Ruddy Turnstones (Arenaria interpres) during the Breeding Season. Peter N. Ferns	3
Overnight Weight Loss in Dark-eyed Juncos Junco hyemalis). Ellen D. Ketterson and Val Nolan Jr 755	5
Intersong Interval and Song Pattern Variability in the Five-striped Sparrow. Kathleen Groschupf and G. Scott Mills 758	3
Crows use Automobiles as Nutcrackers. David B. Grobecker and Theodore W. Pietsch)
Egg Retrieval by Incubating White-tailed Ptarmigan. Kenneth M. Giesen	
Blue-faced Boobies at an Oil Production Platform. Brent Orlego	
Migrational Homing of Male Gadwalls to Breeding Grounds. Robert J. Blohm 763	
Greater Ani (Crotophaga major) in Mexico. Storrs L. Olson766	
A Helper at a Tufted Titmouse Nest. Melinda F. Davis	
Frugivory by Swallow-tailed Kites in Costa Rica. William H. Buskirk and Margaret Lechner	
REVIEWS. Edited by Walter Bock 769)
AOU News	
Notes and News	5
INDEX TO VOLUME 95	9
SUPPLEMENTS	
Proceedings of the Ninety-fifth Stated Meeting of the American Ornithologists' Union	4
RECENT LITERATURE 1A-21A, 1B-24B, 1C-16C, 1D-28D)

THE AUK

A Quarterly Journal of Ornithology

PUBLISHED BY THE AMERICAN ORNITHOLOGISTS' UNION

Editor: John A. Wiens, Department of Biology, University of New Mexico, Albuquerque, New Mexico 87131

Assistant to the Editor: DONA HEYDEN, JEAN FERNER

Editorial Board: OLIVER L. AUSTIN, JR., NICHOLAS E. COLLIAS, RICHARD F. JOHNSTON, JAMES R. KING, HELMUT C. MUELLER, WILLIAM L. THOMPSON, RICHARD L. ZUSI

Associate Editors: Walter Bock (Reviews), Herbert W. Kale, II (Periodical Literature), Jean Ferner, Martha M. Wiens (Index)

THE AUK welcomes original reports dealing with the biology of birds, emphasizing the documentation, analysis, and interpretation of laboratory and field studies, theoretical or methodological developments, or reviews of existing information or ideas. Contributions are welcomed from throughout the world, but must be written in English.

SUGGESTIONS TO CONTRIBUTORS. Submit the typewritten original and two copies of the text, tables, illustrations, and all other material to the Editor. All typewritten material must be double-spaced on one side of numbered $8\frac{1}{2} \times 11$ inch $(21\frac{1}{2} \times 28 \text{ cm})$ good quality bond paper, with at least 1 inch $(2\frac{1}{2} \times 28 \text{ cm})$ margins. Originals typed on erasable, light weight, or mimeo bond will not be considered, but copies may be clear reproductions. Number pages through the Literature Cited. Avoid footnotes. The style of manuscripts should conform to general usage in recent issues. A cover page should contain the full title, a shortened version of the title (not to exceed 35 characters in length) for use as a running head, and your address at the time the research was conducted, followed by your present address, if different. The cover page should also include the name and full address of the individual to whom proof is to be sent.

Each Article should be preceded by an Abstract not exceeding 5% of the length of the paper. The Abstract should recapitulate the findings of the paper, not describe the work done. Acknowledgments should follow the text and precede the Literature Cited. Scientific and English names of birds always should be given where first mentioned in the text, and should follow the A.O.U. Check-list of North American Birds and supplements or the appropriate equivalent unless departures are explained and defended. Metric units should be used in all measurements. In general, abbreviations of statistical terms and mensural units should conform with the Council of Biology Editors (CBE) Style Manual. Use the 24-hour clock (0800 and 2030) and "continental" dating (1 July 1971).

Tables, which must not duplicate material in either the text or illustrations, are typewritten (doublespaced throughout!) separately from the text. Each table should contain a short but complete heading, and must not contain vertical rulings.

Illustrations (including labels of coordinates) should be on $8\frac{1}{2} \times 11$ inch $(21\frac{1}{2} \times 28 \text{ cm})$ sheets, and must be mailed flat. The name of the author and the figure number should be penciled on the back of each figure. Legends should be typed consecutively (double-spaced) on a separate page. Drawings should be drafted with undiluted india ink, and be large enough to permit $\frac{1}{2}$ to $\frac{1}{2}$ reduction to the size that they will appear in print. Graphs may be drafted on coordinate paper ruled with light blue lines; do not use coordinate paper ruled with green lines. Use mechanical lettering, pressure transfer letters, or calligraphy; typewritten lettering is not acceptable. Lettering should be large enough to be easily readable after 50% reduction of the figure, but not overly large. Lettering style should be uniform among all figures for a manuscript, as should the size of lettering following reduction. Photographs should be glossy prints of good contrast and sharpness, and should be approximately the same size as they will appear in print. Letters and arrows on photographs are best applied by pressure-sensitive materials.

In articles containing more than five references, the citations are listed (double-spaced!) in a Literature Cited section following the text and Acknowledgments. For five or fewer references, cite them in the text following these examples: Sauer (1972, Auk 39: 717), or (Sauer 1972, Auk 39: 717). Text citations should include author and year (e.g. Darwin 1858), or, if more than two authors are involved, the first author and year (Jones et al. 1947). If critical matter is cited or quoted directly from longer works, indicate the pertinent pages (e.g. MacArthur 1972: 204–207). Citations of two or more works on the same topic should be cited in chronological order (e.g. Meanley 1971, Dyer 1975). For abbreviations and forms of titles of serial publications, follow the BIOSIS List of Serials. Consult recent issues of The Auk and the CBE Style Manual for additional details.

A more detailed set of instructions for contributors appeared in The Auk, Vol. 94, No. 1 (January 1977), copies of which are available from the Editor.

Publication Announcement Ornithological Monographs No. 26

ECOLOGY AND BEHAVIOR OF THE PRAIRIE WARBLER DENDROICA DISCOLOR

by VAL NOLAN, JR.



The American Ornithologists' Union is proud to announce the publication in early 1978 of Ornithological Monographs No. 26, Ecology and Behavior of the Prairie Warbler Dendroica discolor, by Val Nolan, Jr. Over 600 pages long, with 188 tables and 42 figures (including a color frontispiece), this monumental work constitutes the most comprehensive study of a single species of bird ever published. Its thoroughly quantitative approach, complete index, and extensive cross-referencing will make it an indispensable reference work for all students of vertebrate life history. The imaginative approach of the author and his careful analysis of hundreds of life history phenomena will surely be a strong impetus to research on a wide range of topics by amateur and professional alike.

The price of this important monograph is \$29.50 plus postage. Orders should be sent to Dr. Glen E. Woolfenden, Assistant to the Treasurer, A.O.U., Department of Biology, University of South Florida, Tampa, Florida 33620.