HANDBOOK OF THE BIRDS OF THE WORLD



The first work to illustrate and cover in detail ALL the species of birds in the world.

Volume 5, Barn Owls to Hummingbirds

Published: July 1999 Available in North America: August 1999

Great pre-publication offer Save around 20% when buying Volume 5

Volume 5, with more than 1600 birds depicted in 75 plates, and close to 400 photographs, will contain more illustrations than any of the volumes published to date. Also, such important groups of birds, as the Owls and the Hummingbirds, will be covered in detail and with all the species and distinctive subspecies illustrated for the first time.

See many full reviews and several sample plates, photographs and texts of the first five volumes at

http://www.hbw.com

The simplest way to order

To receive a free 4-page colour brochure, please contact:



LYNX EDICIONS c/o Mail Management Group Inc. 81 North Forest Ave. Rockville Centre, NY 11570

Orders from North America are shipped from our warehouse in New York

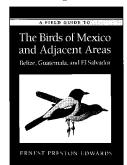
For the ornithologist's bookshelf...

A Field Guide to the Birds of Mexico and Adjacent Areas

Belize, Guatemala, and El Salvador Third Edition BY ERNEST PRESTON EDWARDS EDWARD MURRELL BUTLER, PRINCIPAL ILLUSTRATOR

This practical field guide contains detailed annotations for easy identification of all of Mexico's regular species. The descriptions include the English,

Spanish, and Latin names; a general range statement for each bird, along with its specific occurrences in the region; its typical habitat(s) and abundance; and its physical characteristics, including size and plumage. Excellent color plates with drawings of over 850 species make this the



most fully illustrated guide to the region. 285 pp., 48 color and 3 b&w plates, 1 map \$17.95 paperback, \$35.00 hardcover

The Ruby-throated Hummingbird BY JUNE OSBORNE

With color photos and an inviting text, Osborne describes the full life cycle of America's perhaps best-

known hummingbird, the rubythroat. She also offers an overview of hummingbirds' distinctive ways of feeding, flying, and conserving energy and gives instructions for distinguishing female rubythroats from males, immature birds from adults, and rubythroats from similar species.



Corrie Herring Hooks Series

160 pp., 18 color photos \$17.95 hardcover



The American Robin

BY ROLAND H. WAUER

Combining his own observations as a field naturalist with data gleaned from the scientific literature, Wauer

describes the American Robin from every angle — appearance and biology, distribution, behavior, life cycle, and enemies and threats. In addition, he explores the legends and lore surrounding robins and offers suggestions for attracting them to your yard. Corrie Herring Hooks Series

103 pp., 19 color photos \$17.95 hardcover



Birds of the Trans-Pecos

BY JIM PETERSON AND BARRY R. ZIMMER FOREWORD BY VICTOR EMANUEL DRAWINGS BY GAIL DIANE YOVANOVICH

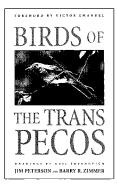
Designed for intermediate to advanced birders, *Birds* of the *Trans-Pecos* provides an annotated checklist of all 482 species found in the region. The species

accounts include seasonal distribution, documentation of nesting, most likely habitat, and the bird's status as a "Texas Review Species." The authors also describe federal and state parklands in the area, with the species that occur in each.

Corrie Herring Hooks Series

216 pp., 16 color plates, 14 b&w drawings, 2 maps

\$19.95 paperback, \$35.00 hardcover



University of Texas Press

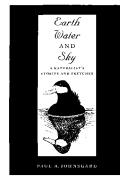
800-252-3206 WWW.UTEXAS.EDU/UTPRESS

Earth, Water, and Sky

A Naturalist's Stories and Sketches BY PAUL A. JOHNSGARD

Paul Johnsgard is one of America's most prominent ornithologists and a world authority on waterfowl behavior. Reflecting his worldwide interests and travels, the birds he describes in this collection of

popularly written, often lyrical essays inhabit many parts of the globe. Grouping them by the element they frequent most - earth, water, or sky - he weaves a wealth of accurate natural history into personal stories drawn from a lifetime of avian observation. And, as a bonus, Johnsgard's lovely pen-and-ink drawings illustrate each species he describes.



Corrie Herring Hooks Series

186 pp., 25 b&w drawings \$15.95 paperback, \$35.00 hardcover

Small-headed Flycatcher. Seen Yesterday. He Didn't Leave His Name.

and other stories BY PETE DUNNE DRAWINGS BY LOUISE ZEMAITIS

This book brings together thirty-two of Dunne's vintage essays. Encounters with birds rare and common is their shared theme, through which

Dunne weaves stories of his family and friends, reflections on the cycles of nature, and portraits of unforgettable birders, including Roger Tory Peterson. A cliff-hanger story of the bird that got away gives this book its title. 156 pp., 6 b&w drawings \$14.95 paperback

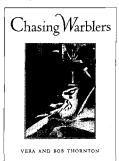


Chasing Warblers

BY VERA AND BOB THORNTON

Known to many as "the butterflies of the bird world," wood warblers allure even the most experienced birders. This entertaining, beautifully illustrated book recounts the authors' cross-continent adventures in finding and photographing all 52 species of wood

warblers that nest in the United States. In addition to describing where and how they photographed each species, Bob Thornton tells marvelous stories of the colorful human characters they encountered along the way. He also touches on the current threats to wood warblers that come from loss of habitat.



Corrie Herring Hooks Series

160 pp., 90 color photos \$19.95 paperback, \$40.00 hardcover

The Wood Warblers

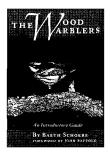
An Introductory Guide BY BARTH SCHORRE

FOREWORD BY JOHN RAPPOLE

Here is a handy beginner's pictorial guide to the identification of forty-nine wood warbler species that commonly nest in the United States and Canada.

Schorre's outstanding color photographs help distinguish each species, while an accompanying description gives each species' common and Latin names, average length, general range, relative abundance, and identifying characteristics.





Available at book and nature stores, or request our complete ornithology catalog.

AVIAN COMMUNITY, CLIMATE, AND SEA-LEVEL CHANGES IN THE PLIO-PLEISTOCENE OF THE FLORIDA PENINSULA

by Steven D. Emslie

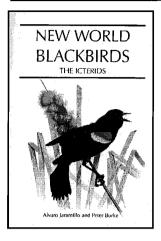
Ornithological Monographs #50

In this important contribution to avian community development, Steven Emslie provides a chronology of Florida avifaunas during the last 2.5 million years, synthesizing 15 years of original paleontological research, as well as the historic contributions of the late Pierce Brodkorb. The volume provides detailed descriptions of 11 previously unidentified fossil avifaunas and analyses of the effects of climate, sea-level, and Neotropical and western North American avifaunas on avian species composition of the Florida Peninsula.

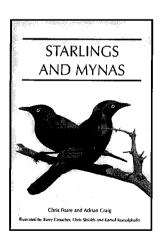
Each copy is \$20.00 (\$16.00 for AOU members). Add \$3.50 per copy for shipping and handling in the U.S. and \$5.00 for all other countries. Make payment by MasterCard, Visa, or check in U.S. funds payable to the American Ornithologists' Union and send to:

Max C. Thompson
Assistant to the Treasurer, AOU
Department of Biology
Southwestern College
100 College Street
Winfield, Kansas 67156
USA

Princeton Guides







New World Blackbirds

The Icterids

Alvaro Jaramillo and Peter Burke

New World Blackbirds is a comprehensive guide to the 103 members of the family Icteridae, also known as the icterids or troupials. The icterids are a diverse family, ranging throughout the Americas from Alaska to the Caribbean and south to Cape Horn.

The highly detailed color plates in this book depict all the species and many subspecies and age types never illustrated before. The book also contains over 100 color range maps as well as black-and-white illustrations to aid identification.

39 color plates. 103 maps. 25 line drawings.

Cloth \$49.50 ISBN 0-691-00680-6 Not available from Princeton in the U.K. or E.U.

A Guide to the Birds of India

Pakistan, Nepal, Bangladesh, Bhutan, Sri Lanka, and the Maldives

Richard Grimmett, Carol Inskipp, and Tim Inskipp

Birdwatchers have long waited for a comprehensive and up-todate identification guide for the Indian subcontinent. This exhaustively researched and beautifully produced book will finally meet that need. Written by three leading experts on the region, the guide is firmly rooted in the authors' extensive field experience. It provides complete information on 1,300 species of birds. This is a landmark publication that will be enthusiastically welcomed by all birders.

153 color plates. 1270 maps.

Cloth \$75.00 prepublication price through July 1, 1999 \$85.00 thereafter ISBN 0-691-00687-3 Not available from Princeton in the U.K. or E.U.

Starlings and Mynas

Chris Feare and Adrian Craig

The starling family contains some of the most common and some of the rarest birds in the world—ranging from the ubiquitous Common Starling to species restricted to single islands in the South Pacific. *Starlings and Mynas* is the first comprehensive, one-volume guide to all 114 members of the family.

With its combination of precise, scientific observations and colorful contextual information, this book will become the definitive guide to this diverse family of birds.

32 color plates. 107 maps.

Cloth \$39.50 ISBN 0-691-00496-X Not available from Princeton in the U.K. or E.U.

Princeton University Press

AT FINE BOOKSTORES OR CALL 800-777-4726 • HTTP: //PUP.PRINCETON.EDU



The American Ornithologists' Union

The Council for 1998-1999

Officers and Editors

President: Frank B. Gill, National Audubon Society, 700 Broadway, New York, New York 10003 President-Elect: John W. Fitzpatrick, Cornell Laboratory of Ornithology, 159 Sapsucker Woods Road, Ithaca, New York 14850

Vice President: JAMES A. KUSHLAN, U.S. Geological Survey, Biological Resources Division, Patuxent Wildlife Research Center, Laurel, Maryland 20708

Secretary: MARY VICTORIA MCDONALD, Department of Biology, University of Central Arkansas, Conway, Arkansas 72035

Treasurer: Frederick H. Sheldon, Museum of Natural Science, Foster Hall 119, Louisiana State University, Baton Rouge, Louisiana 70803

Editor of The Auk: THOMAS E. MARTIN, Montana Cooperative Wildlife Research Unit, University of Montana, Missoula, Montana 59812

Editor of Ornithological Monographs: DAVID A. WIEDENFELD, Sutton Avian Research Center, P.O. Box 2007, Bartlesville, Oklahoma 74005

Elective Councilors and Living Past Presidents

1999: Susan M. Haig, Jeffrey R. Walters, Wesley W. Weathers. 2000: Irene M. Pepperberg, Carol M. Vleck, David W. Winkler. 2001: Walter D. Koenig, Scott M. Lanyon, Stephen M. Russell.

Past Presidents: Ernst Mayr (1957–59), Dean Amadon (1964–66), Harold F. Mayfield (1966–68), Robert W. Storer (1970–72), Wesley E. Lanyon (1976–78), Harrison B. Tordoff (1978–80), Thomas R. Howell (1982–84), Frances C. James (1984–86), Glen E. Woolfenden (1988–90), Brina Kessel (1992–94), Richard C. Banks (1994–96), Ned K. Johnson (1996–98).

Instructions to Contributors

The Auk publishes original reports on the biology of birds. Appropriate topics include documentation, analysis, and interpretation of laboratory and field studies, theoretical or methodological developments, and reviews of information or ideas. Authors are encouraged to write papers from the perspective of general concepts and theories, and to consider the relevance of their findings to taxa in addition to birds. The Auk strives to publish a color frontispiece with each lead article; authors are encouraged to submit suitable color illustrations. Contributions are welcome from throughout the world but must be written in English. Submit five copies of each manuscript complete with tables, figure legends, and figures (retain original figures until notified) to the Editor. Include a copy of the manuscript on a 3.5-inch diskette (WordPerfect preferred, but identify the software). Double-space all written material (including tables and figure legends) on standardsized stationery. Number pages through the figure legends. Submit tables separately from the text; type figure legends consecutively on a separate sheet. Manuscripts should conform to general usage in the most recent issue of the journal. The title page should contain: (1) full title; (2) authors' names and addresses; (3) left and right running heads (<36 characters each); and (4) name, mailing address, and e-mail address of author to whom correspondence should be sent. Detailed instructions to contributors are available in Auk 113(3):731-733; copies may be obtained from the Editor. Paying close attention to these instructions will hasten the processing of your manuscript and gratify the editorial staff.

Contents (continued)



HARLEQUIN DUCK RECOVERY FROM THE EXXON VALDEZ OIL SPILL: A POPULATION GENETICS PERSPECTIVE. Richard Lanctot, Buddy Goatcher, Kim Scribner, Sandy Talbot, Barbara Pierson, Daniel Esler, and Denny Zwiefelhofer
Phylogeny and biogeography of dabbling ducks (genus: Anas): A comparison of molecular and morphological evidence. Kevin P. Johnson and Michael D. Sorenson
IN MEMORIAM: CHARLES GALD SIBLEY, 1917-1998. Kendall W. Corbin and Alan H. Brush
IN MEMORIAM: V. C. WYNNE-EDWARDS, 1906–1997. Ian Newton
IN MEMORIAM: DAVID F. PARMELEE, 1924-1998. Kevin Winker
In Memoriam: Donald Wakeham Lamm, 1914-1996. Steven M. Speich
SHORT COMMUNICATIONS Molecular analysis of genetic variation among large- and small-bodied Sage Grouse using mitochondrial control-region sequences. N. W. Kahn, C. E. Braun, J. R. Young, S. Wood, D. R. Mata, and T. W. Quinn
COMMENTARY Charles G. Sibley: A commentary on 30 years of collaboration. Jon Ahlquist
REVIEWS. Edited by Carl D. Marti
100 Years Ago in The Auk

The Auk

Vol. 116 No. 3 July 1999



769

CONTENTS

Articles
PHYLOGENETICS OF DARWIN'S FINCHES: PARAPHYLY IN THE TREE-FINCHES, AND TWO DIVER GENT LINEAGES IN THE WARBLER FINCH. Joanna R. Freeland and Peter T. Boag
TIMING OF POSTJUVENAL MOLT IN AFRICAN (SAXICOLA TORQUATA AXILLARIS) AND EUROPEAN (SAXICOLA TORQUATA RUBICOLA) STONECHATS: EFFECTS OF GENETIC AND ENVIRONMENTAL FACTORS. Barbara Helm and Eberhard Gwinner
Nest-site selection by female Black-capped Chickadees: Settlement based on con specific attraction? Scott M. Ramsay, Ken Otter, and Laurene M. Ratcliffe
On Home-range gap-crossing. Thomas C. Grubb, Jr. and Paul F. Doherty, Jr.
A MOLECULAR PHYLOGENY OF THE BLACKBIRDS (ICTERIDAE): FIVE LINEAGES REVEALED BY CY TOCHROME-B SEQUENCE DATA. Scott M. Lanyon and Kevin E. Omland
EFFECTS OF PERSISTENT SHORELINE OIL ON BREEDING SUCCESS AND CHICK GROWTH IN BLACK OYSTERCATCHERS. Brad A. Andres
NESTLING FEEDING-SPACE STRATEGY IN ARABIAN BABBLERS. Roni Ostreiher
Does tree hardness influence nest-tree selection by primary cavity nesters? Jak Schepps, Steve Lohr, and Thomas E. Martin
GEOGRAPHIC VARIATION IN SYLLABLES OF HOUSE FINCH SONGS. Todd T. Tracy and Myron C Baker
REPERTOIRE SIZE, REPERTOIRE OVERLAP, AND SINGING MODES IN THE BANDED WREN (THRE OTHORUS PLEUROSTICTUS). Laura E. Molles and Sandra L. Vehrencamp
BREEDING BIOLOGY OF CRESTED AUKLETS AT BULDIR AND KASATOCHI ISLANDS, ALAS KA. Gail Fraser, Ian L. Jones, Jeffrey C. Williams, Fiona M. Hunter, Lisa Scharf, and G. Vernot Byrd
Strong diversification at the treeline among Metallura hummingbirds. Jaime Gar cía-Moreno, Peter Arctander, and Jon Fjeldså
EVOLUTION OF FORAGING STRATEGIES IN SHOREBIRDS: AN ECOMORPHOLOGICAL APPROACH Andrés Barbosa and Eulalia Moreno
EXTRAPAIR PATERNITY AND LOCAL SYNCHRONY IN THE BLACK-THROATED BLUE WAR BLER. Helen C. Chuang, Michael S. Webster, and Richard T. Holmes
COMPARATIVE ANALYSIS OF PERCH-COO VOCALIZATIONS IN STREPTOPELIA DOVES. Hans Slab bekoorn, Selvino de Kort, and Carel ten Cate
THE CYANOGENIC GLYCOSIDE AMYGDALIN DOES NOT DETER CONSUMPTION OF RIPE FRUIT BY CEDAR WAXWINGS. Heather M. Struempf, Jorge E. Schondube, and Carlos Martíne del Rio
MOLECULAR SYSTEMATICS OF THE GRACKLES AND ALLIES, AND THE EFFECT OF ADDITIONA SEQUENCE (CYT B AND ND2). Kevin P. Johnson and Scott M. Lanyon
DYNAMICS OF WARBLER ASSEMBLAGES DURING MIGRATION. John T. Rotenberry and C. Ra

Chandler ._____