The Auk

3

Vol. 116 No. 1 January 1999



PUBLISHED BY
THE AMERICAN ORNITHOLOGISTS' UNION

The Auk



A Quarterly Journal of Ornithology Published by the American Ornithologists' Union

Editor: THOMAS E. MARTIN, Montana Cooperative Wildlife Research Unit,

University of Montana, Missoula, Montana 59812, USA

Managing Editor: Jeffrey S. Marks Editorial Assistant: Alison E. H. Perkins

Editorial Board

TODD W. ARNOLD, Delta Waterfowl Foundation
ALLAN J. BAKER, Royal Ontario Museum
KEITH L. BILDSTEIN, Hawk Mountain Sanctuary
CARLOS BOSQUE, Universidad Simon Bolivar
JEFFREY D. BRAWN, Illinois Natural History Survey
ETIENNE DANCHIN, Universite Pierre et Marie Curie
KENNETH P. DIAL, University of Montana
MORNÉ DU PLESSIS, Percy Fitzpatrick Institute
JAN EKMAN, Uppsala University

DONALD E. KROODSMA, University of Massachusetts Bette A. Loiselle, University of Missouri Frank R. Moore, University of Southern Mississippi Stephen I. Rothstein, University of California James S. Sedinger, University of Alaska Jeffrey R. Walters, Virginia Tech University Wesley W. Weathers, University of California John C. Wingfield, University of Washington Robert M. Zink, University of Minnesota

Book Review Editor

CARL D. MARTI, Department of Zoology, Weber State University, Ogden, Utah 84408, USA

Membership, Subscription, and Correspondence

Persons interested in birds are invited to join the American Ornithologists' Union. Dues are \$42 per year; student memberships are \$20. Membership is \$20 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, Germany, The 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 \$70. A Life Membership is \$1,260, paid in one sum or four annual installments of \$315. Gifts of any amount for the Endowment Fund are welcome and should be sent to the Treasurer (see last page). 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 Treasurer, Department of Biology, Southwestern College, Winfield, Kansas 67156. Communications also may 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, and requests for undelivered issues 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) by the American Ornithologists' Union, 810 East 10th Street, Lawrence, Kansas 66044-8897. Periodicals postage is paid at Lawrence, Kansas. POSTMASTER: Send address changes to *The Auk*, P.O. Box 1897, Lawrence, Kansas 66044-8897. Copyright 1999 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 permission. See last page for instructions to contributors.

Cover: Crested Caracaras painted by Don R. Eckelberry. See Griffiths, pages 116-130.