(ISSN 0273-8570)

## JOURNAL OF FIELD ORNITHOLOGY

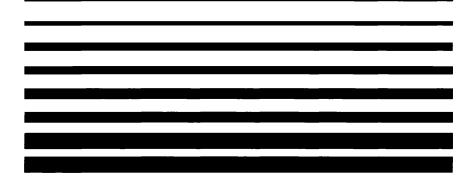
Vol. 69

Winter 1998

No. 1



PUBLISHED BY ASSOCIATION OF FIELD ORNITHOLOGISTS, INC.



## **JOURNAL OF FIELD ORNITHOLOGY**

Published by Association of Field Ornithologists

The Journal of Field Ornithology welcomes original articles that emphasize the descriptive or experimental study of birds in their natural habitats. Articles depicting techniques, emphasizing conservation, describing life history, or assessing published studies or existing ideas are appropriate. The Journal is especially interested in field studies conducted in the neotropics and those involving amateur participation.

Editor

C. RAY CHANDLER

Department of Biology, Georgia Southern University, Statesboro, GA 30460 Assistant Editor. MICHELLE CAWTHORN. Department of Biology, Georgia Southern University, Statesboro, GA 30460 Spanish Editor, RAÚL A. PÉREZ-RIVERA, Assistant Spanish Editor, ENRIQUE HERNÁNDEZ Department of Biology, U.P.R.-Humacao Campus, Humacao, P.R. 00791 Bird Count Editor, JAMES D. LOWE, Cornell Laboratory of Ornithology, 159 Sapsucker Woods Rd., Ithaca, NY 14850 Recent Literature Editor, DANNY J. INGOLD, Department of Biological Sciences, Muskingum College, New Concord, OH 43762 OFFICERS OF THE ASSOCIATION President, CHARLES D. DUNCAN, Institute for Field Ornithology, University of Maine at Machias, 9 O'Brien Ave., Machias, ME 04654 Vice-President, JEROME JACKSON, Department of Biology, Mississippi State University, P.O. Box GY, Mississippi State, MS 39762 Secretary, W. RUSS MCCLAIN, Department of Biology, University of Memphis, Memphis, TN 38152 Treasurer. GEORGE B. MOCK. P.O. Box 393, Mattapoisett, MA 02739 Assistant Treasurer, BRIAN HARRINGTON, Manomet Bird Observatory, Manomet, MA 02345 Councilors (with year of expiration of terms) Paul J. Baicich ('98) Scott K. Robinson ('99) James Herkert ('00) Peter Vickery ('99) Peter Stangel ('00) P. A. Buckley ('98) Donald E. Kroodsma ('01) Petra Bohall Wood ('98) Francisco Vilella ('01) Margaret C. Brittingham ('00) Valerie M. Freer ('99) Elizabeth Brooks ('01) Robert P. Yunick, James O. Seamans, James Baird, Charles Huntington, George A. Clark, Jr., John C. Kricher, William E. Davis, Jr., Peter F. Cannell, Edward H. Burtt, Jr., Gregory S. Butcher, Elissa Landre, Past-Presidents

Applications for membership in the association should be sent to: Ornithological Societies of North America (O.S.N.A.), P.O. Box 1897, Lawrence, KS 66044-8897. The annual membership dues of \$21 per year (\$45 institutional subscription) include a subscription to *J. Field Ornithol.* Life membership is \$650. All payments must be in U.S. dollars, and subscriptions are accepted for current calendar year.

Back issues may be obtained from O.S.N.A., P.O. Box 1897, Lawrence, KS 66044-8897. 16mm microfilm, 35mm microfilm, 105mm microfiche and issue and article copies are available through Serials Acquisitions Department, University Microfilms Inc., 300 North Zeeb Road, Ann Arbor, MI 48106.

JOURNAL OF FIELD ORNITHOLOGY. (ISSN 0273-8570). Published quarterly (Winter, Spring, Summer and Autumn) by the Association of Field Ornithologists, 810 E. 10th St., Lawrence, KS 66044. J. Field Ornithol. is included in the AFO annual dues: Student, \$15; Individual, \$21; Institutional Subscription, \$45; Supporting, \$50 or more; Life, \$650. Subscriptions, changes of address, and claims for undelivered copies should be sent to: O.S.N.A., P.O. Box 1897, Lawrence, KS 66044-8897. Periodicals postage paid at Lawrence, KS 66044. POSTMASTER: Send address changes to O.S.N.A., P.O. Box 1897, Lawrence, KS 66044-8897.

Publication number for second class matter: 056760.

Cover: AFO Logo Design by Julie Zickefoose

This paper meets the requirements of ANSI/NISO Z39.48-1992 (Permanence of Paper).