



Front Matter

Source: The Condor, 115(3)

Published By: American Ornithological Society

URL: <https://doi.org/10.1525/cond.2013.115.3.fm>

BioOne Complete (complete.BioOne.org) is a full-text database of 200 subscribed and open-access titles in the biological, ecological, and environmental sciences published by nonprofit societies, associations, museums, institutions, and presses.

Your use of this PDF, the BioOne Complete website, and all posted and associated content indicates your acceptance of BioOne's Terms of Use, available at www.bioone.org/terms-of-use.

Usage of BioOne Complete content is strictly limited to personal, educational, and non - commercial use. Commercial inquiries or rights and permissions requests should be directed to the individual publisher as copyright holder.

BioOne sees sustainable scholarly publishing as an inherently collaborative enterprise connecting authors, nonprofit publishers, academic institutions, research libraries, and research funders in the common goal of maximizing access to critical research.



THE CONDOR

AN INTERNATIONAL JOURNAL
OF AVIAN BIOLOGY

A PUBLICATION OF THE
COOPER ORNITHOLOGICAL SOCIETY
SINCE 1899

VOLUME 115

NUMBER 3

AUGUST 2013

MICHAEL A. PATTEN
Editor-in-Chief

PHILIP UNITT
Managing Editor

JOSEPH J. FONTAINE
Book Review Editor

BRENDA D. SMITH-PATTEN
Editorial Assistant

LUCIO R. MALIZIA
CINTIA CORNELIUS
C. DANIEL CADENA
Spanish Abstract Translations

BOARD OF REVIEWING EDITORS

JUAN I. ARETA
*Consejo Nacional de Investigaciones
Científicas y Técnicas*
ELI S. BRIDGE
University of Oklahoma
RICHARD BUCHHOLZ
University of Mississippi
C. DANIEL CADENA
Universidad de los Andes
KRISTINA L. COCKLE
Louisiana State University
ROBERT L. CURRY
Villanova University
VERONICA A. J. DOERR
*Australian Commonwealth Scientific
and Research Organization*
RENATA DURÃES
Tulane University
RICHARD A. ERICKSON
LSA Associates
KEITH A. HOBSON
Environment Canada
JASON JONES
*Tetrattech Environmental
Consulting, Inc.*
JEFF F. KELLY
University of Oklahoma
STEVEN T. KNICK
Rangeland Ecosystem Science Center
WILLIAM B. KRISTAN III
California State University, San Marcos
RICHARD B. LANCTOT
United States Fish and Wildlife Service

STEVEN C. LATTA
National Aviary
MATTHIAS LEU
College of William and Mary
JAMES R. LOVVORN
Southern Illinois University
FRANK R. MOORE
University of Southern Mississippi
TROY G. MURPHY
Trinity University
JOSEPH J. NOCERA
Ontario Ministry of Natural Resources
ERICA NOL
Trent University
RAÚL ORTIZ-PULIDO
Universidad Autónoma del Estado de Hidalgo
CHRISTIN L. PRUETT
Florida Institute of Technology
GREGORY J. ROBERTSON
Environment Canada
VICTORIA A. SAAB
Rocky Mountain Research Station
FREDERICK H. SHELDON
Louisiana State University
DAVE SHUTLER
Acadia University
JILL A. SOHA
Duke University
DAVID L. SWANSON
University of South Dakota
ERIC L. WALTERS
Old Dominion University
MAIKEN WINTER
Cornell University

LATIN AMERICAN EDITORIAL BOARD

LUCIANO NICOLAS NAKA, Chair
*Louisiana State University &
Universidade Federal do Roraima*
CATHERINE BECHTOLDT
University of Illinois
ADRIANA BRAVO
American Museum of Natural History
SANTIAGO CLARAMUNT
American Museum of Natural History
JUAN LUIS PARRA
Stony Brook University

EARLY-CAREER EDITORIAL BOARD

TIMOTHY J. O'CONNELL, Faculty Mentor
Oklahoma State University

JULIAN AVERY
FIDELIS ATUO
BRIAN BIELFELT
CHRISTOPHER W. BRIGGS
SERGIO CABRERA
ASHLEY CASEY
BLAKE GRISHAM
TYLER M. HARMS
DAVID HILLE
DIANE V. LANDOLL
KATHRYN M. LANGIN
JESSICA LASKOWSKI
ADRIAN MONROE
MARIO PESENDORFER
J. RYAN SHIPLEY
DAVE SLAGER
KATERINA TVARDIKOVA
STEPHANIE WRIGHT

EDITORIAL OFFICE: Oklahoma Biological Survey, University of Oklahoma, 111 E. Chesapeake St., Norman, OK 73019; condor@ou.edu

THE COOPER ORNITHOLOGICAL SOCIETY

President: Kimberly A. Sullivan, Department of Biology, Utah State University, Logan, UT 84322-5305, phone: 435-797-3713, fax: 435-797-1575, e-mail: kim.sullivan@usn.edu

President-Elect: Frank R. Moore, Department of Biological Sciences, University of Southern Mississippi, Hattiesburg, MS 39406-0001, phone: 601-266-4748, fax: 601-266-5797, e-mail: Frank.Moore@usm.edu

Treasurer: Jeffrey F. Kelly, Oklahoma Biological Survey, University of Oklahoma, Norman, OK 73019, phone: 405-325-2440, fax: 405-325-7702, e-mail: jkelly@ou.edu

Assistant Treasurer: Margaret Petersen, Anchorage, AK 99508, phone: 907-786-7180, fax: 907-786-7070

Secretary: Abby Powell, P. O. Box 84319, Fairbanks, AK 99708, phone: 907-371-6322, e-mail: abypowell@mac.com

Assistant Secretary: Joseph J. Fontaine, 3701 Apple St., Lincoln, NE 68503, phone: 402-472-0339, fax: 402-472-2722, e-mail: fontaine.joseph@gmail.com

Editor-in-Chief of the *Condor*: Michael Patten, Oklahoma Biological Survey, University of Oklahoma, 111 E. Chesapeake Street, Norman, OK 73109, phone: 405-325-5061, fax: 405-325-7702, e-mail: condor@ou.edu

Managing Editor of the *Condor*: Philip Unitt, San Diego Natural History Museum, P. O. Box 121390, San Diego, CA 92112, phone: 619-255-0235, fax: 619-232-0248, e-mail: birds@sdnhm.org

Editor of *Studies in Avian Biology*: Brett K. Sandercock, Division of Biology, Kansas State University, Manhattan, KS 66506, e-mail: bsanderc@ksu.edu

BOARD OF DIRECTORS

2010–2013

CRAIG W. BENKMAN
EILEEN KIRSCH
CAROL VLECK

2011–2014

ANNA CHALFOUN
VICTORIA DREITZ
SCOTT SILLETT

2012–2015

CARLA CICERO
RENÉE DUCKWORTH
TOM MARTIN

COMMITTEE CHAIRS

PUBLICATIONS: JEFF WALTERS	MILLER AWARD: SIEVERT ROHWER
BYLAWS: CAROL VLECK	KATMA AWARD: STEVEN BEISSINGER
FINANCE: TOM MARTIN	MEWALDT–KING AWARD: JEFFREY STRATFORD
HISTORY: LLOYD F. KIFF	GRINNELL AWARD: SCOTT STOLESON
MEMBERSHIP: VACANT	STUDENT TRAVEL AND PAPER AWARDS:
HONORARY MEMBERSHIP: EILEEN KIRSCH	ANNA CHALFOUN, AND ROLF KOFORD
CONSERVATION: JOHN MARZLUFF	YOUNG PROFESSIONAL AWARD: VICKY DREITZ
STUDENT PARTICIPATION: MELANIE COLÓN	WEBSITE COMMITTEE: CARLA CICERO,
NOMINATING FOR DIRECTORS: CRAIG BENKMAN	TY C.M. HOFFMAN
PAINTON AWARD: WALTER KOENIG	ARCHIVES: BRENDA D. SMITH-PATTEN

2013 ANNUAL MEETING LOCAL COMMITTEE: SCOTT SILLETT

2014 ANNUAL MEETING LOCAL COMMITTEE: SUSAN SKAGEN

REPRESENTATIVES

AAAS: ELLEN PAUL JOURNAL EXCHANGE: MERCEDES FOSTER
NORTH AMERICAN BANDING COUNCIL: STEPHEN RUSSELL AND PATRICIA HEGLUND
ORNITHOLOGICAL COUNCIL: JILL DEPPE AND TOM BANCROFT
OSNA BOARD: BONNIE BOWEN AND JEFF KELLY

THE COOPER ORNITHOLOGICAL SOCIETY

OFFICERS

KIMBERLY A. SULLIVAN
PRESIDENT

FRANK MOORE
PRESIDENT-ELECT

JEFFREY F. KELLY
TREASURER

ABBY POWELL
SECRETARY

JOSEPH J. FONTAINE
ASSISTANT SECRETARY

MARGARET PETERSEN
ASSISTANT TREASURER

MICHAEL A. PATTEN
EDITOR-IN-CHIEF OF THE *CONDOR*

BRETT K. SANDERCOCK
EDITOR OF *STUDIES IN AVIAN BIOLOGY*

Membership: Any person interested in avian biology may become a member of the Cooper Ornithological Society. Regular membership rates (which include both online and print versions of *The Condor*) are US\$80 per year in select countries (United States, Canada, western Europe, Iceland, Australia, New Zealand, Israel, Japan, Republic of Korea, and Taiwan), \$25 per year in all other countries, \$55 for student members, \$30 for emeritus members, \$100 for families. Individuals may opt to receive *only* the online version for a reduced membership rate of \$40 per year, \$25 for student members. If applying for student rates, include a brief, signed statement from an academic advisor certifying student status. North American members also receive the bimonthly *Ornithological Newsletter*. All correspondence regarding membership, including dues payments and changes of address, should go to Ornithological Societies of North America (OSNA), 5400 Bosque Blvd., Suite 680, Waco, TX 76710, or business@osnabirds.org.

Publications: *The Condor* is a quarterly journal devoted to the biology of wild birds. It publishes research reports, review articles, and commentary. Contributors should refer to the Instructions for Authors published in the February issue and on the Cooper Ornithological Society website, www.cooper.org. *The Condor* (ISSN 0010-5422, e-ISSN 1938-5129) is published quarterly (February, May, August, November) by the University of California Press, Journals and Digital Publishing Division, 2000 Center Street, Suite 303, Berkeley, CA 94704-1223, for the Cooper Ornithological Society. Periodicals postage paid at Berkeley, CA, and additional mailing offices. POSTMASTER: Send address changes to *The Condor*, University of California Press, Journals and Digital Publishing, 2000 Center Street, Suite 303, Berkeley, CA 94704-1223.

Manuscripts: via ScholarOne Manuscripts, <http://mc.manuscriptcentral.com/ucpress-cond>.

Books for review: to Joseph J. Fontaine, 3701 Apple St., Lincoln, NE 68503.

Studies in Avian Biology, a series of works too long for the journal, is published at irregular intervals. Manuscripts: to Brett K. Sandercock, Division of Biology, Kansas State University, Manhattan, KS 66506, e-mail: bsanderc@ksu.edu

See www.ucpressjournals.com for single issue and subscription orders, and claims information. Domestic claims for nonreceipt of issues should be made within 90 days of the mail date; overseas claims within 180 days. Mail dates can be checked at: <http://www.ucpressjournals.com/ucpress.asp?page=ReleaseSchedule>. UC Press does not begin accepting claims for an issue until thirty (30) days after the mail date. Inquiries about advertising can be sent to adsales@ucpressjournals.com. For complete abstracting and indexing coverage for the journal, please visit <http://www.ucpressjournals.com>. All other inquiries can be directed to customerservice@ucpressjournals.com.

Copying and permissions notice: Authorization to copy article content beyond fair use (as specified in Sections 107 and 108 of the U.S. Copyright Law) for internal or personal use, or the internal or personal use of specific clients, is granted by the Regents of the University of California on behalf of the Cooper Ornithological Society for libraries and other users, provided that they are registered with and pay the specified fee through the Copyright Clearance Center (CCC), www.copyright.com. To reach the CCC's Customer Service Department, phone 978-750-8400 or write to info@copyright.com. For permission to distribute electronically, republish, resell, or repurpose material from 2008 forward, use the CCC's Rightslink service, available on JSTOR at <http://www.jstor.org/r/ucal/cond>. Submit all other permissions and licensing inquiries through the University of California Press's Rights and Permissions website, www.ucpressjournals.com/reprintInfo.asp, or via e-mail: journalspermissions@ucpress.edu.

Printed by The Sheridan Press.

© 2013 Cooper Ornithological Society. All rights reserved.