

# **BIRD POPULATIONS**

*A journal of global avian demography and biogeography*

Published by  
**The Institute for Bird Populations**

*Editor:* **DAVID G. AINLEY**, H.T. Harvey & Associates, 983 University Avenue, Bldg D, Los Gatos, CA 95032; 415-272-9499; dainley@penguinscience.com

*Managing Editor:* **DAVID F. DeSANTE**, The Institute for Bird Populations, P.O. Box 1346, Point Reyes Station, CA 94956-1346; 415-663-2052; 415-663-9482 fax; ddesante@birdpop.org

*Spanish Translation of Abstracts:* **BORJA MILA**, Museo Nacional de Ciencias Naturales, CSIC, José Gutiérrez Abascal 2, Madrid 28006, Spain; bmila@mncn.csic.es

*Layout and Typesetting:* **PRISCILLA YOCOM**, 5018 Albridal Way, San Ramon, CA 94582

---

## **THE INSTITUTE FOR BIRD POPULATIONS**

A tax-exempt California nonprofit corporation established in 1989 and dedicated to fostering a global approach to research and the dissemination of information on changes in bird populations.

*President:* **DAVID F. DeSANTE**, P.O. Box 1346, Point Reyes Station, CA 94956

*Secretary-Treasurer:* **STEPHEN M. ALLAN**, 962 Mistletoe Loop N, Keizer, OR 97303

*Directors:* **CORDELL GREEN, IVAN SAMUELS, RODNEY B. SIEGEL, and DAN TOMPKINS**

All persons interested in birds are invited to join The Institute for Bird Populations. Individual membership dues are \$35 per year. Institutional memberships are \$50 per year; student and senior memberships are \$15 per year. Please send check or money order (in U.S. dollars) payable to The Institute for Bird Populations, along with complete name, address, and email address to: The Institute for Bird Populations, P.O. Box 1346, Point Reyes Station, CA 94956-1346. All memberships and donations are fully tax-deductible as provided by law.

---

*BIRD POPULATIONS* (ISSN 1074-1755) is an entirely electronic journal published annually by The Institute for Bird Populations. Copyright 2015 by The Institute for Bird Populations. *BIRD POPULATIONS* can be accessed free of charge at [www.birdpop.org](http://www.birdpop.org). All material in this journal may be copied for the non-commercial purpose of educational or scientific advancement without the need to seek specific permission.