



Table of Contents

Source: The Auk, 134(4)

Published By: American Ornithological Society

URL: <https://doi.org/10.1642/AUK-2017.134.4.toc>

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-o-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.



CONTENTS

RESEARCH ARTICLES

THEORETICAL AND METHODOLOGICAL ADVANCES

- 783 **Logistic quantile regression provides improved estimates for bounded avian counts: A case study of California Spotted Owl fledgling production** by Brian S. Cade, Barry R. Noon, Rick D. Scherer, and John J. Keane

BEHAVIOR AND BEHAVIORAL ECOLOGY

- 802 **Failed predator attacks: A direct test of security of tree cavities used by nesting Marsh Tits (*Poecile palustris*)** by Tomasz Wesolowski
- 842 **Reproductive outcomes determine the timing of arrival and settlement of a single-brooded Nearctic–Neotropical migrant songbird (*Catharus fuscescens*) in South America** by Christopher M. Heckscher, Mariamar Gutierrez Ramirez, and Alan H. Kneidel

REPRODUCTIVE AND BREEDING BIOLOGY

- 811 **Extrapair paternity and nest parasitism in two sympatric quail** by Craig A. Davis, Jeremy P. Orange, Ronald A. Van Den Bussche, R. Dwayne Elmore, Samuel D. Fuhlendorf, J. Matthew Carroll, Evan P. Tanner, and David M. Leslie, Jr.
- 832 **Variation in the number of sperm trapped on the perivitelline layer of the egg in three species of estrildid finch** by Laura L. Hurley, Kerry V. Fanson, and Simon C. Griffith

PHYSIOLOGY AND BIOCHEMISTRY

- 821 **Sex-specific differences in preen gland size of Zebra Finches during the course of breeding** by Sarah Golüke and Barbara A. Caspers
- 903 **Demographic analysis demonstrates systematic but independent spatial variation in abiotic and biotic stressors across 59 percent of a global species range** by Katharine J. Ruskin, Matthew A. Etterson, Thomas P. Hodgman, Alyssa C. Borowske, Jonathan B. Cohen, Chris S. Elphick, Christopher R. Field, Rebecca A. Longenecker, Erin King, Alison R. Kocek, Adrienne I. Kovach, Kathleen M. O'Brien, Nancy Pau, W. Gregory Shriver, Jennifer Walsh, and Brian J. Olsen

COMMUNICATION AND SENSORY ECOLOGY

- 857 **Using song playback experiments to measure species recognition between geographically isolated populations: A comparison with acoustic trait analyses** by Benjamin G. Freeman and Graham A. Montgomery
- 894 **Variation in the ecstatic display call of the Gentoo Penguin (*Pygoscelis papua*) across regional geographic scales** by Maureen A. Lynch and Heather J. Lynch

POPULATION BIOLOGY AND ECOLOGY

- 871 **Long-term phenological shifts in migration and breeding-area residency in eastern North American raptors** by Jean-François Therrien, Nicolas Lecomte, Thomas Zgirski, Mikaël Jaffré, Andréanne Beardsell, Laurie J. Goodrich, Joël Bêty, Alastair Franke, Edmund Zlonis, and Keith L. Bildstein

MORPHOLOGY AND ANATOMY

- 882 **Evidence of phenotypic plasticity of penis morphology and delayed reproductive maturation in response to male competition in waterfowl** by Patricia L. R. Brennan, Ian Gereg, Michele Goodman, Derek Feng, and Richard O. Prum

100 YEARS AGO IN THE AOU

- 917 **100 Years Ago in the American Ornithologists' Union** by Kimberly G. Smith

BOOK REVIEW

- 919 *Why Did the Chicken Cross the World? The Epic Saga of the Bird That Powers Civilization* by Andrew Lawler, reviewed by Patricia Adair Gowaty
- 922 *The Most Perfect Thing: Inside (and Outside) a Bird's Egg* by Tim Birkhead, reviewed by Chenghui Ju and David C. Lahti
- 925 *Avian Evolution: The Fossil Record of Birds and Its Paleobiological Significance* by Gerald Mayr, reviewed by John Ruben

IN MEMORIAM

- 927 **George Matthew Jonkel, 1927–2016** by Matthew C. Perry
- 929 **Peter D. Vickery, 1949–2017** by Jan Pierson and Malcolm L. Hunter, Jr.
- 932 **Peter R. Marler, 1928–2014** by Gregory F. Ball and Robert J. Dooling
- 935 **Chandler S. Robbins, 1918–2017** by Jay M. Sheppard, Deanna K. Dawson, and John R. Sauer

ANNUAL THANKS TO REVIEWERS

- 939 **Thank You to the Reviewers of the 2017 *Auk*, Volume 134** by Mark E. Hauber