



## Table of Contents

Source: The Auk, 134(3)

Published By: American Ornithological Society

URL: <https://doi.org/10.1642/AUK-2016.134.3.toc>

---

BioOne Complete ([complete.BioOne.org](http://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](http://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.



## CONTENTS

### REVIEW

- 587 **The role of bare parts in avian signaling** by Erik N. K. Iverson and Jordan Karubian

### RESEARCH ARTICLES

#### MIGRATION AND ORIENTATION

- 485 **Counterintuitive roles of experience and weather on migratory performance** by Adrian I. Rus, Adam E. Duerr, Tricia A. Miller, James R. Belthoff, and Todd E. Katzner
- 628 **Environmental cues used by Greater Sage-Grouse to initiate altitudinal migration** by Aaron C. Pratt, Kurt T. Smith, and Jeffrey L. Beck

#### PARASITES AND DISEASES

- 498 **Negative effect of mite (*Knemidokoptes*) infection on reproductive output in an African raptor** by Julia L. van Velden, Ann Koeslag, Odette Curtis, Tertius Gous, and Arjun Amar
- 553 **Reducing cuckoo parasitism risk via informed habitat choices** by Jere Tolvanen, Jukka T. Forsman, and Robert L. Thomson

#### REPRODUCTIVE AND BREEDING BIOLOGY

- 509 **Characterizing opportunistic breeding at a continental scale using all available sources of phenological data: An assessment of 337 species across the Australian continent** by Daisy Englert Duursma, Rachael V. Gallagher, and Simon C. Griffith
- 696 **Effects of severe weather on reproduction for sympatric songbirds in an alpine environment: Interactions of climate extremes influence nesting success** by Kathy Martin, Scott Wilson, Elizabeth C. MacDonald, Elaine F. Camfield, Michaela Martin, and Sarah A. Trefry

#### BEHAVIOR AND BEHAVIORAL ECOLOGY

- 520 **Peeking into the bleak midwinter: Investigating nonbreeding strategies of Gentoo Penguins using a camera network** by Caitlin Black, Andrea Raya Rey, and Tom Hart

#### COMMUNICATION AND SENSORY ECOLOGY

- 530 **Turn-taking ceremonies in a colonial seabird: Does behavioral variation signal individual condition?** by Linda S. Takahashi, Anne E. Storey, Sabina I. Wilhelm, and Carolyn J. Walsh
- 564 **Vocal performance is a salient signal for male–male competition in White-crowned Sparrows** by Jennifer N. Phillips and Elizabeth P. Derryberry
- 612 **Geographic variation in song structure in the Hermit Thrush (*Catharus guttatus*)** by Sean P. Roach and Leslie S. Phillmore

#### BEHAVIOR AND PHYSIOLOGY

- 575 **Condition- and context-dependent factors are related to courtship behavior of paired and unpaired males in a socially monogamous songbird** by Dustin G. Reichard, Abigail A. Kimmitt, Joseph F. Welkin, and Ellen D. Ketterson
- 644 **What makes a good parent? Sex-specific relationships between nest attendance, hormone levels, and breeding success in a long-lived seabird** by Juliane Riechert and Peter H. Becker
- 710 **Is sexual dimorphism in singing behavior related to syringeal muscle composition?** by Linsey A. Christensen, Lisa M. Allred, Franz Goller, and Ron A. Meyers

## EVOLUTIONARY HISTORY AND PALEONTOLOGY

- 659 **Oligocene and Miocene albatross fossils from Washington State (USA) and the evolutionary history of North Pacific Diomedidae** by Gerald Mayr and James L. Goedert

## MORPHOLOGY AND ANATOMY

- 672 **Quantitative discrimination of flightlessness in fossil Anatidae from skeletal proportions** by Junya Watanabe

## PHYSIOLOGY AND BIOCHEMISTRY

- 721 **Speckled and plain regions of avian eggshells differ in maternal deposition of calcium and metals: A hitherto overlooked chemical aspect of egg maculation** by Grzegorz Orłowski, Przemysław Pokorny, Wojciech Dobicki, Ewa Łukaszewicz, and Artur Kowalczyk

## FORAGING ECOLOGY

- 732 **Unusual diet of brood parasitic nestlings and its fitness consequences** by Tomáš Grim, Zdeněk Tyllér, and Peter Samaš

**COMMENTARY**

- 542 **The adaptive significance of variation in avian incubation periods** by Robert E. Ricklefs, Suzanne H. Austin, and W. Douglas Robinson

**LETTER TO THE EDITOR**

- 551 **A century later, resolving Joseph Grinnell's "striking case of adventitious coloration"** by Daniel A. Levitis, Jacob Golan, Anne Pringle, and John Taylor

**CORRECTION**

- 627 **Erratum: Opposing demographic histories reveal rapid evolution in grebes (Aves: Podicipedidae)** by Lisa M. Ogawa, Paulo C. Pulgarin, Donald A. Vance, Jon Fjeldså, and Marcel van Tuinen

**SUPPLEMENT TO THE AOU CHECK-LIST OF NORTH AMERICAN BIRDS**

- 751 **Fifty-eighth supplement to the American Ornithological Society's *Check-list of North American Birds*** by R. Terry Chesser, Kevin J. Burns, Carla Cicero, Jon L. Dunn, Andrew W. Kratter, Irby J. Lovette, Pamela C. Rasmussen, J. V. Remsen, Jr., James D. Rising, Douglas F. Stotz, and Kevin Winker

**100 YEARS AGO IN THE AOU**

- 774 **100 Years Ago in the American Ornithologists' Union** by Kimberly G. Smith

**IN MEMORIAM**

- 776 **François Vuilleumier, 1938–2017** by Alan Brush  
 778 **Elaina Marie Tuttle, 1963–2016** by Rusty Gonser and Ellen Ketterson  
 780 **Robert A. Hinde, CBE, 1923–2016** by Ted R. Anderson