

B. E. Byrkowski, Editor

# BIRD MIGRATIONS

Ecological and Physiological Factors



# **Bird Migrations Ecological And Physiological Factors**

**Jean-Pierre L. Savard, Dirk V.  
Derksen, Dan Esler, John M. Eadie**



## **Bird Migrations Ecological And Physiological Factors:**

Bird Migrations; Ecological and Physiological Factors Boris Evseevich Bykhovskii,1974      *Bird Migrations* Boris Evseevich Bykhovskii,1973      *Bird Migrations; Ecological and Physiological Factors* Boris Evseevich Bykhovskii,1974

*The Migration Ecology of Birds* Ian Newton,2023-12-02 The Migration Ecology of Birds Second Edition covers all aspects of this absorbing subject including migratory processes problems of navigation and vagrancy timing and physiological control of migration large scale movement patterns the effects of recent climate change the problems that migrants face and the factors that limit their populations This book provides a thorough and in depth review of the state of the science with the text supplemented by abundant tables maps and diagrams Written by a world renowned avian ecology and migration researcher this book reveals the extraordinary adaptability of birds to the variable and changing conditions across the globe This book represents the most updated and detailed review of bird migration its evolution ecology and bird physiology Written in a clear and readable style it will appeal not only to migration researchers in the field and ornithologists but to anyone with an interest in this fascinating subject Features updated and trending ecological aspects including various types of bird movements dispersal and nomadism and how they relate to food supplies and other external conditions Contains numerous tables maps diagrams a glossary and a bibliography of more than 3 000 up to date references Written by an active researcher with a distinguished career in avian ecology including migration research      *Ecological and Environmental Physiology of Birds* J. Eduardo P. W. Bicudo,William A. Buttemer,Mark A. Chappell,2010-04 Examining avian physiology in detail this text specifically addresses the unique physiological characteristics of birds although experimental techniques and future research directions are also considered      *Bird Migration* Eberhard Gwinner,2012-12-06 E GWINNER The phenomenon of bird migration with its large scale dimensions has attracted the attention of naturalists for centuries Worldwide billions of birds leave their breeding grounds every autumn to migrate to areas with seasonally more favorable conditions Many of these migrants travel only over a few hundred kilo meters but others cover distances equivalent to the circumference of the earth Among these long distance migrants are several billion birds that invade Africa every autumn from their West and Central Palaearctic breeding areas In the Americas and in Asia the scope of bird migration is of a similar magnitude Just as impressive as the numbers of birds are their achievements They have to cope with the enormous energetic costs of long distance flying particularly while crossing oceans and deserts that do not allow replenishment of depleted fat reserves They have to appropriately time the onset and end of migrations both on a daily and annual basis And finally they have to orient their migratory movements in space to reach their species or population specific wintering and breeding grounds irrespective of the variable climatic conditions along their migratory routes      **Bird Migration** Thomas Alerstam,1993-03-25 Bird migration is one of the most astonishing feats in the natural world Millions of birds migrate often over very large distances to benefit from seasonal resource surpluses and to avoid predators and competitors The aim of this study is to survey the

phenomena      **Avian Energetics and Nutritional Ecology** C. Carey, 2012-12-06 A symposium held in 1973 chaired and organized by William R Dawson was the first major attempt to summarize and synthesize the existing information in the then emerging field of avian energetics The symposium featured papers by James R King William A Calder III Vance A Tucker and Robert E Ricklefs and commentaries by George A Bartholomew S Charles Kendeigh and Eugene P Odum The proceedings of the symposium *Avian Energetics* Paynter 1974 played a critical role in stimulating interest and research in the field of avian energetics Some twenty odd years later we are making another attempt to summarize the information in the field of avian energetics Some obvious differences exist between its predecessor and this volume Numerous improvements in methodology such as the use of doubly labeled water to estimate metabolism in free living birds now allow researchers to ask questions that could not be addressed previously Second consideration of nutrition is now inseparable from that of energetics This merger is necessary not only because food intake is the source of both energy and nutrients but also because one or more nutrients rather than energy can be limiting for a given species in a particular instance Finally the study of energetics and nutritional ecology particularly in birds and mammals has grown so dramatically that a single volume can now only partially cover the range of possible topics and can catalogue only a sampling of all the studies on the subject      **Energetics and**

**Avian Behavior** V. M. Gavrilo, 1997-04      Ecophysiological Adaptations Associated With Animal Migration Ivan Maggini, Lucy Alice Hawkes, Arne Hegemann, Matthew Jason Noakes, 2022-10-18      *Speciation and Biogeography of Birds* Ian Newton, 2003-02-25 This book should be of value to anyone interested in bird evolution and taxonomy biogeography distributional history dispersal and migration patterns It provides an up to date synthesis of current knowledge on species formation and the factors influencing current distribution patterns It draws heavily on new information on Earth history including past glacial and other climatic changes on new developments in molecular biology and palaeontology and on recent studies of bird distribution and migration patterns to produce a coherent account of the factors that have influenced bird species diversity and distribution patterns worldwide Received the Best Bird Book of the Year award for 2004 from British Birds magazine Winner of the British Birds British Trust for Ornithology Bird Book of the Year 2004 The first book to deal comprehensively with bird speciation and biogeography Up to date synthesis of new information Clearly written No previous book covers the same ground Many maps and diagrams Makes difficult and widely scattered information accessible and easily understood A sound base for future research Takes full account of recent developments in molecular biology      The Impact of Weather on the Behavior and Ecology of Birds Stuart Peter Sharp, Mark C. Mainwaring, Andreas Nord, 2021-12-29

**Ornithology in Laboratory and Field** Olin Sewall Pettingill Jr., 2012-12-02 This new edition of *Ornithology in Laboratory and Field* continues to offer up to date coverage of the important aspects of modern ornithology Beginning with an overview of ornithology today Pettingill explores such topics as external and internal anatomy physiology ecology flight behavior migration life histories and populations      **Animal Migration, Orientation and Navigation**

Gauthreaux,2012-12-02 Animal Migration Orientation and Navigation presents the various aspects of animal migration including the evolution of migration climatic and meteorological influences and bioenergetics This book discusses the physiological control sensory systems orientation and navigation and biological clocks and phenology aspects of animal migration Organized into five chapters this book begins with an overview of the migration strategies of animals in the context of a space continuum This text then explains the influence of short and long term climatic cycles on the spectrum of migratory patterns in nature Other chapters consider the energetic requirements of different migration strategies and the energy stores of the migrants This book discusses as well the physiological basis of animal migration with emphasis on endocrinal findings on the timing and energetic aspects of different migration strategies The final chapter deals with the mechanisms used in direction finding by migrating animals This book is a valuable resource for biologists and ecologists

**Ecology and Conservation of North American Sea Ducks** Jean-Pierre L. Savard,Dirk V. Derksen,Dan Esler,John M. Eadie,2015-04-13 The past decade has seen a huge increase in the interest and attention directed toward sea ducks the Mergini tribe This has been inspired in large part by the conservation concerns associated with numerical declines in several sea duck species and populations as well as a growing appreciation for their interesting ecological attributes Reflec

**Passerine Migration** Nikita Chernetsov,2012-04-18 Most birds cannot cover the distance between their breeding and winter quarters in one hop They have to make multiple flights alternated with stopovers Which factors govern the birds decisions to stop to stop for how long when to resume flight What is better to accumulate much fuel and to make long flights for many hundreds of kilometres or to travel in small steps Is it necessary to find habitats similar to the breeding ones or other habitats would do Are long migratory flights indeed so costly energetically as usually assumed This monograph summarizes our current knowledge on the ecology of songbird migrants during migratory stopovers and on their behaviour

**Avian Biology** Donald S. Farner,James R. King,Kenneth C. Parkes,2013-10-22 Avian Biology Volume VI is a compendium of papers that deals with selected aspects of avian biology One paper discusses the avian mating behavior and covers topics such as monogamy polygyny male incubation and female emancipation these papers also list a table of the species of birds in which polyandry has been observed Another paper examines bird migration in relation to the mechanism and development of migration with emphasis on the evolution and function ultimate causation of migration Another paper discusses the advantages of one form of social organization of birds during the non reproductive season over another form This paper reasons the possibility of the existence of a cost benefit social behavior Other papers discuss some physical features found in birds such as stomach oils and glycogen filled cells Another paper deals with the respiratory physiology of birds as new research data have been made available in this area This book can prove useful for investigators in avian biology zoologists and readers who have a general interest in birds FWS/OBS. ,1978 **Avian Migration** Peter Berthold,Eberhard Gwinner,Edith Sonnenschein,2013-03-09 P Berthold and E Gwinnd Bird migration is an intriguing aspect of the living world

so much so that it has been investigated for as long and as thoroughly as almost any other natural phenomenon Aristotle who can count as the founder of scientific ornithology paid very close attention to the migrations of the birds he observed but it was not until the reign of Friedrich II in the first half of the 13th century that reliable data began to be obtained From then on the data base grew rapidly Systematic studies of bird migration were introduced when the Vogelwarte Rossitten was founded as the first ornithological biological observation station in the world see first chapter In Memory of Vogelwarte Rossitten This area later received enormous impetus when experimental research on the subject was begun the large scale bird ringing experiment initiated in Rossitten in 1903 by Johannes Thienemann who was inspired by the pioneering studies of C C M Mortensen the experiments on photoperiodicity carried out by William Rowan in the 1920s in Canada and retention and release experiments performed by Thienemann in the 1930s in Rossitten the first experimental study on the orientation of migratory birds After the Second World War migration research while continuing in the previous areas also expanded into new directions such as radar ornithology ecophysiology and hormonal control mechanisms studies of evolution genetics telemetry and others

**Avian Flight** John J. Videler, 2006-08-10 Avian Flight covers all the main aspects of aerial locomotion by birds including sections on the history of thinking about bird flight aerodynamics functional morphology evolution kinematics physiology energetics and the cost of flight The subject is complex and still not yet fully understood and the author argues a convincing case for rethinking or even abandoning some of the old well established concepts

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