

# *Animal Migration, Orientation, and Navigation*

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# Animal Migration Orientation And Navigation Physiological Ecology

**S.A. Gauthreaux Junior**



## **Animal Migration Orientation And Navigation Physiological Ecology:**

*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 **Animal Migration, Orientation, and Navigation** S.A. Gauthreaux Junior, 1980

**Physiological Ecology** William H. Karasov, Carlos Martínez del Río, 2020-05-05 Unlocking the puzzle of how animals behave and how they interact with their environments is impossible without understanding the physiological processes that determine their use of food resources But long overdue is a user friendly introduction to the subject that systematically bridges the gap between physiology and ecology Ecologists for whom such knowledge can help clarify the consequences of global climate change the biodiversity crisis and pollution often find themselves wading through an unwieldy technically top heavy literature Here William Karasov and Carlos Martínez del Río present the first accessible and authoritative one volume overview of the physiological and biochemical principles that shape how animals procure energy and nutrients and free themselves of toxins and how this relates to broader ecological phenomena After introducing primary concepts the authors review the chemical ecology of food and then discuss how animals digest and process food Their broad view includes symbioses and extends even to ecosystem phenomena such as ecological stoichiometry and toxicant biomagnification They introduce key methods and illustrate principles with wide ranging vertebrate and invertebrate examples Uniquely they also link the physiological mechanisms of resource use with ecological phenomena such as how and why animals choose what they eat and how they participate in the exchange of energy and materials in their biological communities Thoroughly up to date and pointing the way to future research *Physiological Ecology* is an essential new source for upper level undergraduate and graduate students and an ideal synthesis for professionals The most accessible introduction to the physiological and biochemical principles that shape how animals use resources Unique in linking the physiological mechanisms of resource use with ecological phenomena An essential resource for upper level undergraduate and graduate students An ideal overview for researchers *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      Resource  
Physiology of Conifers William K. Smith, Thomas M. Hinckley, 2013-10-22 Coniferous forests are among the most important of ecosystems These forests are widespread and influence both the financial and biological health of our globe This book focuses attention on conifers and how these trees acquire allocate and utilize the resources that sustain this crucial productivity An international team of experts has surveyed and synthesized information from an expanding area of inquiry The first half of the book describes how resources are acquired both by means of photosynthesis and through root systems The latter half of the volume focuses upon how resources are stored and used As conifers continue as a resource and ever increasingly important contributor to the regional and global environmental sustainability this book will help establish how much sustainability can be expected and maintained      Encyclopedia of Fish Physiology , 2011-06-01 Fish form an extremely diverse group of vertebrates At a conservative estimate at least 40% of the world's vertebrates are fish On the one hand they are united by their adaptations to an aquatic environment and on the other they show a variety of adaptations to differing environmental conditions often to extremes of temperature salinity oxygen level and water chemistry They exhibit an array of behavioural and reproductive systems Interesting in their own right this suite of adaptive physiologies provides many model systems for both comparative vertebrate and human physiologists This four volume encyclopedia covers the diversity of fish physiology in over 300 articles and provides entry level information for students and summary overviews for researchers alike Broadly organised into four themes articles cover Functional Thematic and Phylogenetic Physiology and Fish Genomics Functional articles address the traditional aspects of fish physiology that are common to all areas of vertebrate physiology including Reproduction Respiration Neural Sensory Central Effector Endocrinology Renal Cardiovascular Acid base Balance Osmoregulation Ionoregulation Digestion Metabolism Locomotion and so on Thematic Physiology articles are carefully selected and fewer in number They provide a level of integration that goes beyond the coverage in the Functional Physiology topics and include discussions of Toxicology Air breathing Migrations Temperature Endothermy etc Phylogenetic Physiology articles bring together information that bridges the physiology of certain groupings of fishes where the knowledge base has a sufficient depth and breadth and include articles on Ancient Fishes Tunas Sharks etc Genomics articles describe the underlying genetic component of fish physiology and highlight their suitability and use as model organisms for the study of disease stress and physiological adaptations and reactions to external conditions Winner of a 2011 PROSE Award Honorable Mention for Multivolume Science Reference from the Association of American Publishers The definitive encyclopedia for the field of fish physiology Three volumes which comprehensively cover the entire field in over 300 entries written by experts Detailed coverage of basic functional physiology of fishes physiological themes in fish biology and comparative physiology amongst taxonomic Groups Describes the genomic bases of fish physiology and biology and the use of fish as model organisms in human physiological research Includes a glossary of terms      *Ecological and Environmental Physiology of*

*Mammals* Philip C. Withers, Christine E. Cooper, Shane K. Maloney, Francisco Bozinovic, Ariovaldo P. Cruz Neto, 2016-10-27

Mammals are the so called pinnacle group of vertebrates successfully colonising virtually all terrestrial environments as well as the air bats and sea especially pinnipeds and cetaceans How mammals function and survive in these diverse environments has long fascinated mammalogists comparative physiologists and ecologists Ecological and Environmental Physiology of Mammals explores the physiological mechanisms and evolutionary necessities that have made the spectacular adaptation of mammals possible It summarises our current knowledge of the complex and sophisticated physiological approaches that mammals have for survival in a wide variety of ecological and environmental contexts terrestrial aerial and aquatic The authors have a strong comparative and quantitative focus in their broad approach to exploring mammal ecophysiology As with other books in the Ecological and Environmental Physiology Series the emphasis is on the unique physiological characteristics of mammals their adaptations to extreme environments and current experimental techniques and future research directions are also considered This accessible text is suitable for graduate level students and researchers in the fields of mammalian comparative physiology and physiological ecology including specialist courses in mammal ecology It will also be of value and use to the many professional mammalogists requiring a concise overview of the topic

*Flooding and Plant Growth* Bozzano G Luisa, 2012-12-02 Flooding and Plant Growth covers the state of knowledge and opinion on the effects of flooding of soil with fresh or salt water on the metabolism and growth of herbaceous and woody plants The book discusses the extent causes and impacts of flooding the effects of flooding on soils and on the growth and metabolism of herbaceous plants and the responses of woody plants to flooding The text also describes the effect of flooding on water carbohydrate and mineral relations as well as the effects of flooding on hormone relations and on plant disease The adaptations to flooding with fresh water and the adaptations of plants to flooding with salt water are also encompassed Agronomists biochemists plant ecologists engineers foresters horticulturists plant anatomists meteorologists geneticists plant breeders plant physiologists and landscape architects will find the book invaluable

*Vascular Transport in Plants* N. Michelle Holbrook, Maciej A. Zwieniecki, 2011-09-06 Vascular Transport in Plants provides an up to date synthesis of new research on the biology of long distance transport processes in plants It is a valuable resource and reference for researchers and graduate level students in physiology molecular biology physiology ecology ecological physiology development and all applied disciplines related to agriculture horticulture forestry and biotechnology The book considers long distance transport from the perspective of molecular level processes to whole plant function allowing readers to integrate information relating to vascular transport across multiple scales The book is unique in presenting xylem and phloem transport processes in plants together in a comparative style that emphasizes the important interactions between these two parallel transport systems Includes 105 exceptional figures Discusses xylem and phloem transport in a single volume highlighting their interactions Syntheses of structure function and biology of vascular transport by leading authorities Poses unsolved questions and

stimulates future research Provides a new conceptual framework for vascular function in plants      **Ecology in Agriculture**  
Louise E. Jackson, 1997-09-14 Agricultural crops are prominent features of an increasing number of variously perturbed ecosystems and the landscapes occupied by these ecosystems Yet the ecology of agricultural dominated landscapes is only now receiving the scientific attention it has long deserved This attention has been stimulated by the realization that all agriculture must become sustainable year after year while leaving nearby ecosystems unaffected Ecology in Agriculture focuses exclusively on the ecology of agricultural ecosystems The book is divided into four major sections An introduction establishes the unique ties between agricultural and ecological sciences The second section describes the community ecology of these sorts of ecosystems while the final section focuses on the processes that operate throughout these agricultural landscapes Contains an ecological perspective on agricultural production and resource utilization Includes in depth reviews of major issues in crop ecology by active researchers Covers a range of topics in agricultural ecophysiology community ecology and ecosystems ecology Provides examples of ecological approaches to solving problems in crop management and environmental quality

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