

CAMBRIDGE STUDIES IN ECOLOGY

THE ECOLOGY OF BIRD COMMUNITIES

Volume 1
Foundations and patterns

JOHN A. WIENS



Ecology Of Bird Communities Vol 1 Foundations And Patterns

G Thomas



Ecology Of Bird Communities Vol 1 Foundations And Patterns:

The Ecology of Bird Communities: Foundations and patterns John A. Wiens, 1989 The Ecology of Bird Communities: Volume 1, Foundations and Patterns John A. Wiens, 1989-09-14 The Ecology of Bird Communities John A. Wiens, 1989 A major study of avian community ecology The Ecology of Bird Communities John A. Wiens, 1992 The two volumes of John Wiens Ecology of Bird Communities are already recognised as having applications and importance beyond the study of birds to the wider study of ecology in general The books contain a detailed synthesis of our current understanding of the patterns of organisation of bird communities and of the factors that may determine them drawing from studies from all over the world The author however does more than simply review recent findings in bird community ecology By emphasizing how proper logic and methods have or have not been followed and how different viewpoints have developed historically and have led to controversy he extends the scope of these books far beyond the study of birds Volume 1 Foundations and Patterns explores why avian community ecologists ask the questions they do and what philosophical and methodological approaches they have used to answer such questions Most of the book is devoted to a critical evaluation of what is known about the nature and organisation of bird communities Volume 2 Processes and Variations discusses the way in which bird community patterns have been interpreted This volume examines how the complexity and variability of natural environments may influence efforts to discern and understand the nature of these communities Graduate students and professionals in avian biology and ecology will find these volumes a valuable stimulus and guide to future field studies and theory development **Biological Diversity** Michael A. Huston, 1994-09-15 The key to preserving and managing biodiversity is understanding which processes are important at different scales and how changes affect different components of biodiversity In this book existing theories on diversity are synthesised into a logical framework Global and landscape scale patterns of biodiversity are described in the first section In the second the spatial and temporal dynamics of diversity are emphasised The third section develops an integrated set of mechanistic explanations for diversity patterns at the levels of population community ecosystem and landscape Finally case studies examine diversity patterns in marine and terrestrial ecosystems and the effects of biological invasions The book concludes with a discussion of the economics of preserving biological diversity This book will interest research workers and students of ecology biology and conservation *Animal Migration* E. J. Milner-Gulland, John M. Fryxell, Anthony R. E. Sinclair, 2011-01-20 Despite the wealth of natural historical research conducted on migration over decades there is still a dearth of hypothesis driven studies that fully integrate theory and empirical analyses to understand the causes and consequences of migration and a taxonomic bias towards birds in much migration research This book takes a comparative integrated view of animal migration linking evolution with ecology and management theory with empirical research and embracing all the major migratory taxa including human pastoralists The scope extends beyond the target organism to consider the ecosystem level dynamics of migration The emphasis is on exciting

new research avenues that are now opening up whether due to advances in our understanding of migration as a biological phenomenon or through the availability of a range of new technologies Broad themes that emerge include integrating migration into the broad spectrum of movement behaviour the need for a comparative and cross taxonomic approach that considers migration at a range of temporal and spatial scales and examination of the key roles of resource uncertainty and spatial heterogeneity in driving migratory behaviour The book identifies the potential for new tools to revolutionise the study of migration including satellite tracking technology genomics and modelling all of which are linked to increasing computing power We are now on the verge of a breakthrough in migration research which is crucial given the multiple threats that face the conservation of migration as a phenomenon including climate change

Ecological Experiments Nelson G. Hairston, 1989-11-24 Ecological Experiments stresses the importance to ecology of field experiments where variables are manipulated in order to collect data on specific hypotheses as opposed to the more passive observational method The book begins by introducing a series of ecological questions that can be addressed experimentally for example what is the significance of competition among species The minimal requirements of experimental design that must be met are then introduced together with examples of good and poor experiments from the ecological literature and a consideration of the trade offs that may be forced on the experimenter by field conditions All ecologists and especially students beginning their careers in field study will find in this text a good introduction to the experimental foundation of ecology

Life Strategies of Succulents in Deserts Dieter J. von Willert, 1992-02-13 A consideration of the ecological strategies which enable plants to survive and grow in hostile desert conditions first published in 1992

Idaho Panhandle National Forest (N.F.), Packsaddle Timber Sale and Road Construction Project, Bonner County, 1996

Terrestrial Ecosystems in Changing Environments Herman Henry Shugart, 1998-03-26 A unique review of the problem of predicting the response of ecosystems to changed conditions

Spiders in Ecological Webs David H. Wise, 1995-01-26 A critical evaluation of the role of field experimentation in population and community ecology

Riparian Landscapes George Patrick Malanson, 1993-05-27

Riparian Landscapes examines the ecological systems of streamside and floodplain areas from the perspective of landscape ecology The specific spatial pattern of riparian vegetation is seen as a result of and a control on the ecological geomorphological and hydrological processes that operate along rivers Riparian structures are controlled by the spatial dynamics of channels flooding and soil moisture These dynamics are part of integrated cascades of water sediment nutrients and carbon to which animal and plant species respond in ways that illuminate community structure and competition The role of the riparian zone in controlling species distribution and abundance is discussed Intelligent management of these valuable ecological resources is highlighted The potential for linking hydrological geomorphological and ecological simulation models is also explored This book will be of interest to graduate and professional research workers in environmental science ecology and physical geography

Bats James S. Findley, 1995-01-26 Extensive scientific study of bats suggests that they are long

lived slowly reproducing animals adapted to relatively stable environments As such they might be expected to exist in communities heavily influenced by biotic interactions This book begins with an overview of bat biology including their systematic diversity and methodological problems in bat research This is followed by examples of local bat community surveys from the major biogeographic regions The evidence bearing upon resource limitation and competition in bats is reviewed Then patterns in species richness taxonomic packing biomass numerical density trophic and morphological diversity are described The relevance of these to the nature of bat communities is examined Major habitats and their histories are shown to be powerful predictors of important aspects of bat community structure

Fire and Vegetation Dynamics Edward A. Johnson, Edward Arnold Johnson, 1996-06-13 A technical introduction to the behaviour of fire and its ecological consequences using examples from the North American boreal forest

Wildlife Review, 1990

Dynamic Biogeography R. Hengeveld, 1992-08-13 Biogeography is an increasingly important area for ecology dynamic biogeography being the study of biological patterns and processes on a broad scale both geographically and temporally In this book the spatial patterns and processes studied in dynamic biogeography are presented from an ecological perspective Dynamic Biogeography opens with a survey of the different approaches encountered within the subject The remainder of the book is arranged into four parts The first is concerned with patterns of concordance both quantitative and qualitative classifications are discussed Geographical trends in species diversity and biological traits are viewed with Part 3 leading into areography or the analysis of species ranges The book is drawn together by an overview of all the scales of variation and a glimpse into the future of biogeography

Ecological Morphology Peter C. Wainwright, Stephen M. Reilly, 1994-08-15 Ecological morphology examines the relation between an animal s anatomy and physiology its form and function and how the animal has evolved in and can inhabit a particular environment Within the past few years research in this relatively new area has exploded Ecological Morphology is a synthesis of major concepts and a demonstration of the ways in which this integrative approach can yield rich and surprising results Through this interdisciplinary study scientists have been able to understand for instance how bat wing design affects habitat use and bat diet how the size of a predator affects its ability to capture and eat certain prey and how certain mosquitoes have evolved physiologically and morphologically to tolerate salt water habitats Ecological Morphology also covers the history of the field the role of the comparative method in studying adaptation and the use of data from modern organisms for understanding the ecology of fossil communities This book provides an overview of the achievements and potential of ecological morphology for all biologists and students interested in the way animal design ecology and evolution interact

Panhandle National Forest (N.F.), Bonners Ranger District, Katka Peak Timber Sales and Road Construction, 1994

Forest Bird Habitat Suitability Models and the Development of General Habitat Models Beatrice Van Horne, John A. Wiens, 1991

The Terrestrial Invasion Colin Little, 1990 The theme of this book is the invasion of land by animal lines which originated in aquatic environments It brings together physiological and ecological

evidence to show both the likely routes taken out of the sea by the aquatic ancestors of terrestrial animals and the changes in structure and function associated with these routes. The author takes an ecophysiological approach and by using representative examples provides a novel background against which both the terrestrial adaptations of individual species and the make up and function of terrestrial ecosystems can be considered. Dr Little is the author of the highly acclaimed book *The Colonisation of Land* which discusses the phylogeny and physiology of terrestrial and semi terrestrial animals. *The Terrestrial Invasion* takes a fresh approach and provides an excellent introduction to the origins of land animals suitable for ecologists, physiologists and evolutionary biologists.

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