



METACOMMUNITIES

Spatial Dynamics and Ecological Communities

EDITED BY

Marcel Holyoak, Mathew A. Leibold,
and Robert D. Holt

Metacommunities Spatial Dynamics And Ecological Communities

Kimberly A. With



Metacommunities Spatial Dynamics And Ecological Communities:

Metacommunities Marcel Holyoak, Mathew A. Leibold, Robert D. Holt, 2005-10-15 Until recently community ecology a science devoted to understanding the patterns and processes of species distribution and abundance focused mainly on specific and often limited scales of a single community Since the 1970s for example metapopulation dynamics studies of interacting groups of populations connected through movement concentrated on the processes of population turnover extinction and establishment of new populations Metacommunities takes the hallmarks of metapopulation theory to the next level by considering a group of communities each of which may contain numerous populations connected by species interactions within communities and the movement of individuals between communities In examining communities open to dispersal the book unites a broad range of ecological theories presenting some of the first empirical investigations and revealing the value of the metacommunity approach The collection of empirical theoretical and synthetic chapters in Metacommunities seeks to understand how communities work in fragmented landscapes Encouraging community ecologists to rethink some of the leading theories of population and community dynamics Metacommunities urges ecologists to expand the spatiotemporal scales of their research Metacommunity Spatio-Temporal Dynamics: Conservation and Management Implications Pedro Giovâni Da Silva, Jani Heino, Juliano André Bogoni, Miguel Cañedo-Argüelles, 2021-05-18 **The Princeton Guide to Ecology** Simon A. Levin, Stephen R. Carpenter, H. Charles J. Godfray, Ann P. Kinzig, Michel Loreau, Jonathan B. Losos, Brian Walker, David S. Wilcove, 2012-09-30 The Princeton Guide to Ecology is a concise authoritative one volume reference to the field s major subjects and key concepts Edited by eminent ecologist Simon Levin with contributions from an international team of leading ecologists the book contains more than ninety clear accurate and up to date articles on the most important topics within seven major areas autecology population ecology communities and ecosystems landscapes and the biosphere conservation biology ecosystem services and biosphere management Complete with more than 200 illustrations including sixteen pages in color a glossary of key terms a chronology of milestones in the field suggestions for further reading on each topic and an index this is an essential volume for undergraduate and graduate students research ecologists scientists in related fields policymakers and anyone else with a serious interest in ecology Explains key topics in one concise and authoritative volume Features more than ninety articles written by an international team of leading ecologists Contains more than 200 illustrations including sixteen pages in color Includes glossary chronology suggestions for further reading and index Covers autecology population ecology communities and ecosystems landscapes and the biosphere conservation biology ecosystem services and biosphere management Models of the Ecological Hierarchy Ferenc Jordan, Sven Erik Jørgensen, 2012-11-29 Based on selected papers covering the presentations at the 7th European Conference on Ecological Modelling organized by ISEM and hosted by The Microsoft Research University of Trento Center for Computational and Systems Biology from 30 May to 2 June 2011 in Riva del Garda Italy P xi Metacommunity Ecology

Mathew A. Leibold, Jonathan M. Chase, 2018 Metacommunity ecology links smaller scale processes that have been the provenance of population and community ecology such as birth death processes species interactions selection and stochasticity with larger scale issues such as dispersal and habitat heterogeneity Until now the field has focused on evaluating the relative importance of distinct processes with niche based environmental sorting on one side and neutral based ecological drift and dispersal limitation on the other This book moves beyond these artificial categorizations showing how environmental sorting dispersal ecological drift and other processes influence metacommunity structure simultaneously Mathew Leibold and Jonathan Chase argue that the relative importance of these processes depends on the characteristics of the organisms the strengths and types of their interactions the degree of habitat heterogeneity the rates of dispersal and the scale at which the system is observed Using this synthetic perspective they explore metacommunity patterns in time and space including patterns of coexistence distribution and diversity Leibold and Chase demonstrate how these processes and patterns are altered by micro and macroevolution traits and phylogenetic relationships and food web interactions They then use this scale explicit perspective to illustrate how metacommunity processes are essential for understanding macroecological and biogeographical patterns as well as ecosystem level processes Moving seamlessly across scales and subdisciplines Metacommunity Ecology is an invaluable reference one that offers a more integrated approach to ecological patterns and processes

The Theory of Ecological Communities Mark Vellend, 2020-09-15 A plethora of different theories models and concepts make up the field of community ecology Amid this vast body of work is it possible to build one general theory of ecological communities What other scientific areas might serve as a guiding framework As it turns out the core focus of community ecology understanding patterns of diversity and composition of biological variants across space and time is shared by evolutionary biology and its very coherent conceptual framework population genetics theory The Theory of Ecological Communities takes this as a starting point to pull together community ecology's various perspectives into a more unified whole Mark Vellend builds a theory of ecological communities based on four overarching processes selection among species drift dispersal and speciation These are analogues of the four central processes in population genetics theory selection within species drift gene flow and mutation and together they subsume almost all of the many dozens of more specific models built to describe the dynamics of communities of interacting species The result is a theory that allows the effects of many low level processes such as competition facilitation predation disturbance stress succession colonization and local extinction to be understood as the underpinnings of high level processes with widely applicable consequences for ecological communities Reframing the numerous existing ideas in community ecology The Theory of Ecological Communities provides a new way for thinking about biological composition and diversity

Modelling Complex Ecological Dynamics Fred Jopp, Hauke Reuter, Broder Breckling, 2011-02-11 Model development is of vital importance for understanding and management of ecological processes Identifying the complex relationships between ecological patterns and processes is a

crucial task Ecological modelling both qualitatively and quantitatively plays a vital role in analysing ecological phenomena and for ecological theory This textbook provides a unique overview of modelling approaches Representing the state of the art in modern ecology it shows how to construct and work with various different model types It introduces the background of each approach and its application in ecology Differential equations matrix approaches individual based models and many other relevant modelling techniques are explained and demonstrated with their use The authors provide links to software tools and course materials With chapters written by leading specialists Modelling Complex Ecological Dynamics is an essential contribution to expand the qualification of students teachers and scientists alike **Essentials of Landscape**

Ecology Kimberly A. With, 2019 Presents the principles theory methods and applications of landscape ecology and is supplemented by numerous examples and case studies from a variety of systems **Encyclopedia of Environmental Change** John A Matthews, 2013-12-13 Accessibly written by a team of international authors the Encyclopedia of Environmental Change provides a gateway to the complex facts concepts techniques methodology and philosophy of environmental change This three volume set illustrates and examines topics within this dynamic and rapidly changing interdisciplinary field The encyclopedia includes all of the following aspects of environmental change Diverse evidence of environmental change including climate change and changes on land and in the oceans Underlying natural and anthropogenic causes and mechanisms Wide ranging local regional and global impacts from the polar regions to the tropics Responses of geo ecosystems and human environmental systems in the face of past present and future environmental change Approaches methodologies and techniques used for reconstructing dating monitoring modelling projecting and predicting change Social economic and political dimensions of environmental issues environmental conservation and management and environmental policy Over 4 000 entries explore the following key themes and more Conservation Demographic change Environmental management Environmental policy Environmental security Food security Glaciation Green Revolution Human impact on environment Industrialization Landuse change Military impacts on environment Mining and mining impacts Nuclear energy Pollution Renewable resources Solar energy Sustainability Tourism Trade Water resources Water security Wildlife conservation The comprehensive coverage of terminology includes layers of entries ranging from one line definitions to short essays making this an invaluable companion for any student of physical geography environmental geography or environmental sciences *Agents and Implications of Landscape Pattern* Dean L Urban, 2023-10-11 This is an ecology textbook focused on key principles that underpin research and management at the landscape scale It covers 1 agents of pattern the physical template biotic processes and disturbance regimes 2 scale and pattern why scale matters how to scale with data and inferences using landscape pattern metrics and 3 implications of pattern for metapopulations communities and biodiversity and ecosystem processes The last two chapters address emerging issues urban landscapes and adapting to climate change This book stems from two graduate level courses in Landscape Ecology taught at the Nicholas School of the

Environment at Duke University The subject has evolved over time from a concepts based overview of what landscape ecology is to a more applied practicum on how one does landscape ecology As landscape ecology has matured as a discipline its perspectives on spatial heterogeneity and scale have begun to permeate into a wide range of other fields including conservation biology ecosystem management and ecological restoration Thus this textbook will bring students from diverse backgrounds to a common level of understanding and will prepare them with the practical knowledge for a career in conservation and ecosystem management

Encyclopedia of Biodiversity ,2013-02-05 The 7 volume Encyclopedia of Biodiversity Second Edition maintains the reputation of the highly regarded original presenting the most current information available in this globally crucial area of research and study It brings together the dimensions of biodiversity and examines both the services it provides and the measures to protect it Major themes of the work include the evolution of biodiversity systems for classifying and defining biodiversity ecological patterns and theories of biodiversity and an assessment of contemporary patterns and trends in biodiversity The science of biodiversity has become the science of our future It is an interdisciplinary field spanning areas of both physical and life sciences Our awareness of the loss of biodiversity has brought a long overdue appreciation of the magnitude of this loss and a determination to develop the tools to protect our future Second edition includes over 100 new articles and 226 updated articles covering this multidisciplinary field from evolution to habits to economics in 7 volumes The editors of this edition are all well respected instantly recognizable academics operating at the top of their respective fields in biodiversity research readers can be assured that they are reading material that has been meticulously checked and reviewed by experts Approximately 1 800 figures and 350 tables complement the text and more than 3 000 glossary entries explain key terms

Marine Hard Bottom Communities Martin Wahl,2009-06-22 Marine hard bottoms feature some of the most spectacular and diverse biological communities on this planet These not only contain a rich treasure of genetic taxonomic and functional information but also deliver irreplaceable ecosystem services At the same time they are highly vulnerable and increasingly threatened by anthropogenic pressures This volume has collected contributions by 50 scientists from numerous biogeographic regions dealing with characteristics of hard bottom communities Distributional patterns in space and time are described followed by analyses of the intrinsic and extrinsic dynamics producing these patterns A strong emphasis is placed on the ongoing changes occurring in the structure and diversity of these communities in response to spiralling environmental impacts and on state of the art countermeasures aiming to preserve these ecological treasures Finally various values of diversity are assessed hopefully as an incentive for enhanced conservation efforts

Coexistence in Ecology Mark A. McPeck,2022-02-08 A comprehensive framework for understanding species coexistence Coexistence is the central concept in community ecology but an understanding of this concept requires that we study the actual mechanisms of species interactions Coexistence in Ecology examines the major features of these mechanisms for species that coexist at different positions in complex food webs and derives empirical tests

from model predictions Exploring the various challenges species face Mark McPeck systematically builds a model food web beginning with an ecosystem devoid of life and then adding one species at a time With the introduction of each new species he evaluates the properties it must possess to invade a community and quantifies the changes in the abundances of other species that result from a successful invasion McPeck continues this process until he achieves a multitrophic level food web with many species coexisting at each trophic level from omnivores mutualists and pathogens to herbivores carnivores and basic plants He then describes the observational and experimental empirical studies that can test the theoretical predictions resulting from the model analyses Synthesizing decades of theoretical research in community ecology Coexistence in Ecology offers new perspectives on how to develop an empirical program of study rooted in the natural histories of species and the mechanisms by which they actually interact with one another

Biodiversity in Aquatic Systems and Environments Noboru Okuda, Katsutoshi Watanabe, Kayoko Fukumori, Shin-ichi Nakano, Takefumi Nakazawa, 2013-10-09 This book presents the latest topics in ecological and evolutionary research on aquatic biodiversity from bacteria to fishes with special reference to Lake Biwa an ancient lake in western Japan With a geological history of 4 million years Lake Biwa is the third oldest lake in the world It is considered a biodiversity hotspot where 1 769 aquatic species including 61 endemics are recorded providing a rare opportunity to study the evolutionary diversification of aquatic biota and its ecological consequences The first chapter introduces the evolutionary history of biodiversity especially of fish in this lake In the second chapter some examples of trophic polymorphism in fish are described Fish are keystone predators in lake ecosystems and they can be a major driver for altering biological communities through their top down trophic cascading effects An excellent laboratory experiment is presented demonstrating that functional diversity of fish feeding morphology alters food web properties of plankton prey communities The third chapter focuses on aquatic microbes whose abundance and diversity may also be influenced by the diversity of fish through top down trophic cascades Aquatic microbes can have a strong impact on ecosystem functioning in lakes and in this chapter the latest molecular techniques used to examine genetic and functional diversity of microbial communities are introduced The final chapter presents theoretical frameworks for predicting how biodiversity has the potential to control the incidence and intensity of human induced regime shifts While respecting the precious nature of biodiversity in lakes it is essential to be aware that modern human activities have brought a crisis of biodiversity loss in lakes worldwide Throughout this book readers will learn why biodiversity must be conserved at all levels from genes to ecosystems

Unity in Diversity: Reflections on Ecology after the Legacy of Ramon Margalef, 2007 **Global Change in Multispecies Systems: Part III**, 2013-09-06 Advances in Ecological Research is one of the most successful series in the highly competitive field of ecology Each volume publishes topical and important reviews interpreting ecology as widely as in the past to include all material that contributes to our understanding of the field Topics in this invaluable series include the physiology populations and communities of plants and animals as well as landscape and ecosystem ecology Topical and

important reviews Interpreting ecology as widely as in the past to include all material that contributes to our understanding of the field Topics include the physiology populations and communities of plants and animals as well as landscape and ecosystem ecology Ecological Engineering Design Marty D. Matlock,Robert A. Morgan,2011-03-29 Ecologically sensitive building and landscape design is a broad intrinsically interdisciplinary field Existing books independently cover narrow aspects of ecological design in depth hydrology ecosystems soils flora and fauna etc but none of these books can boast of the integrated approach taken by this one Drawing on the experience of the authors this book begins to define explicit design methods for integrating consideration of ecosystem processes and services into every facet of land use design management and policy The approach is to provide a prescriptive approach to ecosystem design based upon ecological engineering principles and practices This book will include a novel collection of design methods for the non built and built environments linking landscape design explicitly to ecosystem services **Quaternary Ecology, Evolution, and Biogeography** Valenti Rull,2020-03-05 Quaternary Ecology Evolution and Biogeography offers an introduction to the study of the ecological and evolutionary processes that have shaped our present biosphere under the influence of glacial interglacial cycles Written by an ecologist with paleoecological expertise this book reviews the climactic changes that have occurred during the last 2 6 million years along with the responses of organisms and ecosystems It offers an understanding of the evolutionary origin of extant biodiversity its biogeographical patterns and the composition of modern ecological communities In addition it explores human evolution and the influence of our activities on the biosphere especially in the last millennia This book offers the latest information on how studying the past can contribute to our understanding of present climate issues for a better future and is an ideal resource for researchers and students in the natural sciences Includes the latest developments in genomics and their relevance within Quaternary evolution Offers a holistic view of the origin of biodiversity patterns and community assembly Discusses the role of climate on human evolution and the ecological consequences for natural systems Encyclopedia of Theoretical Ecology Dr. Alan Hastings,Dr. Louis Gross,2012-05-31 This major reference is an overview of the current state of theoretical ecology through a series of topical entries centered on both ecological and statistical themes Coverage ranges across scales from the physiological to populations landscapes and ecosystems Entries provide an introduction to broad fields such as Applied Ecology Behavioral Ecology Computational Ecology Ecosystem Ecology Epidemiology and Epidemic Modeling Population Ecology Spatial Ecology and Statistics in Ecology Others provide greater specificity and depth including discussions on the Allee effect ordinary differential equations and ecosystem services Descriptions of modern statistical and modeling approaches and how they contributed to advances in theoretical ecology are also included Succinct uncompromising and authoritative a must have for those interested in the use of theory in the ecological sciences **Food Webs** John C. Moore,Peter C. de Ruiter,Kevin S. McCann,2018 This book presents new approaches to studying food webs using practical and policy examples to demonstrate the theory behind ecosystem management decisions

Whispering the Secrets of Language: An Emotional Quest through **Metacommunities Spatial Dynamics And Ecological Communities**

In a digitally-driven world where screens reign supreme and immediate interaction drowns out the subtleties of language, the profound techniques and emotional nuances concealed within phrases frequently get unheard. Yet, located within the pages of **Metacommunities Spatial Dynamics And Ecological Communities** a interesting literary prize pulsating with raw feelings, lies a fantastic journey waiting to be undertaken. Penned by a skilled wordsmith, this marvelous opus invites readers on an introspective trip, lightly unraveling the veiled truths and profound influence resonating within the very cloth of every word. Within the mental depths with this touching evaluation, we can embark upon a genuine exploration of the book is key themes, dissect their captivating writing model, and yield to the effective resonance it evokes deep within the recesses of readers hearts.

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