

Species Diversity in Ecological Communities

HISTORICAL AND
GEOGRAPHICAL PERSPECTIVES



EDITED BY
Robert E. Ricklefs and Dolph Schluter

Species Diversity In Ecological Communities Historical And Geographical Perspectives

Gary George Mittelbach, Brian J. McGill



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Species Diversity in Ecological Communities Robert E. Ricklefs, Dolph Schluter, 1993 A pioneering work Species Diversity in Ecological Communities looks at biodiversity in its broadest geographical and historical contexts For many decades ecologists have studied only small areas over short time spans in the belief that diversity is regulated by local ecological interactions However to understand fully how communities come to have the diversity they do and to properly address urgent conservation problems scientists must consider global patterns of species richness and the historical events that shape both regional and local communities The authors use new theoretical developments analyses and case studies to explore the large scale mechanisms that generate and maintain diversity Case studies of various regions and organisms consider how local and regional processes interact to determine patterns of species richness The contributors emphasize the fact that ecological processes acting quickly on a local scale do not erase the effects of regional and historical events that occur more slowly and less frequently This book compels scientists to rethink the foundations of community ecology and sets the stage for further research using comparative experimental geographical and historical data **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 [Assessment of Biodiversity for Improved Forest Planning](#) Peter Bachmann, Michael Köhl, Risto Päivinen, 2013-04-17 The Global Biodiversity Strategy signed in 1992 in Rio de Janeiro and the resolutions at the Ministerial Conferences on the Protection of Forests in Europe in Strasbourg 1990 and Helsinki 1993 commit the signatory states to monitor nationally the state of biodiversity and to sustain the characteristic natural variation in the country Sustainability and long term planning are the two terms best describing the philosophy of traditional forest management

practices However the traditional planning techniques are not primarily developed to maintain sustainability of biodiversity The gap between the international commitments and the practices in forest assessment and management is obvious This publication presents experience in methodology for assessing and monitoring the variation of ecosystems and habitats in relation to biodiversity conservation and for integrating biodiversity in regional planning of forest management and land use The state of the art in the field of natural resource assessments with special reference to forest biodiversity is reviewed progress in integrating data on biodiversity in forest management planning is presented and the information needs regarding biodiversity conservation and the question to what degree assessment methods for forest biodiversity can be simplified for practical applications are discussed The book is intended for researchers and practitioners in the field of forest and environmental planning and environmental policies Contribuciones mastozoológicas en homenaje a Bernardo Villa Víctor Sánchez-Cordero, Rodrigo A. Medellín, 2005 *Biodiversity Dynamics* Michael L. McKinney, James A. Drake, 2001-04-12 How will patterns of human interaction with the earth's ecosystem impact on biodiversity loss over the long term not in the next ten or even fifty years but on the vast temporal scale be dealt with by earth scientists This volume brings together data from population biology community ecology comparative biology and paleontology to answer this question **The SAGE Handbook of Biogeography** Andrew Millington, Mark Blumler, Udo Schickhoff, 2011-09-22 A superb resource for understanding the diversity of the modern discipline of biogeography and its history and future especially within geography departments I expect to refer to it often Professor Sally Horn University of Tennessee As you browse through this fine book you will be struck by the diverse topics that biogeographers investigate and the many research methods they use Biogeography is interdisciplinary and a commonly voiced concern is that one biogeographer may not readily understand another's research findings A handbook like this is important for synthesising situating explaining and evaluating a large literature and pointing the reader to informative publications Geographical Research A valuable contribution in both a research and teaching context If you are biologically trained it provides an extensive look into the geographical tradition of biogeography covering some topics that may be less familiar to those with an evolution ecology background Alternatively if you are a geography student researcher or lecturer it will provide a useful reference and will be invaluable to the non biogeographer who suddenly has the teaching of an introductory biogeography course thrust upon them Adam C Algar *Frontiers of Biogeography* The SAGE Handbook of Biogeography is a manual for scoping the past present and future of biogeography that enable readers to consider where relevant how similar biogeographical issues are tackled by researchers in different schools In line with the concept of all SAGE Handbooks this is a retrospective and prospective overview of biogeography that will Consider the main areas of biogeography researched by geographers Detail a global perspective by incorporating the work of different schools of biogeographers Explore the divergent evolution of biogeography as a discipline and consider how this diversity can be harnessed Examine the interdisciplinary debates that biogeographers are contributing

to within geography and the biological sciences Aimed at an international audience of research students academics researchers and practitioners in biogeography the text will attract interest from environmental scientists ecologists biologists and geographers alike *Metacommunities* Marcel Holyoak, Mathew A. Leibold, Robert D. Holt, 2005-10 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 This book seeks to understand how communities work in fragmented landscapes Community Ecology Gary George Mittelbach, Brian J. McGill, 2019 Community ecology has undergone a transformation in recent years from a discipline largely focused on processes occurring within a local area to a discipline encompassing a much richer domain of study including the linkages between communities separated in space metacommunity dynamics niche and neutral theory the interplay between ecology and evolution eco evolutionary dynamics and the influence of historical and regional processes in shaping patterns of biodiversity To fully understand these new developments however students continue to need a strong foundation in the study of species interactions and how these interactions are assembled into food webs and other ecological networks This new edition fulfils the book's original aims both as a much needed up to date and accessible introduction to modern community ecology and in identifying the important questions that are yet to be answered This research driven textbook introduces state of the art community ecology to a new generation of students adopting reasoned and balanced perspectives on as yet unresolved issues Community Ecology is suitable for advanced undergraduates graduate students and researchers seeking a broad up to date coverage of ecological concepts at the community level **Microbial Communities** Heribert Insam, Andrea Ranggert, 2013-06-29 Research on decomposer communities of terrestrial ecosystems for a long time has focussed on microbial biomass and gross turnover parameters Recently more and more attempts are made to look beyond the biomass and more specifically determine functions and populations on a smaller scale in time and space A multitude of techniques is being improved and developed Garland and Mills 1991 triggered a series of publications on substrate utilization tests in the field of microbial ecology Despite several promising results for different applications in different laboratories many problems concerning the assay and the interpretation of results became evident After individual discussions on the approach with colleagues from various laboratories we started to plan a workshop on the matter The response on our first circular was extraordinary and instead of a small workshop it became a meeting with almost 150 participants The meeting was named Substrate use for characterization of microbial communities in terrestrial ecosystems SUBMECO and was held in Innsbruck Austria from Oct 16-18 1996 The very focussed scope attracted enthusiastic advocates of the approach and also serious critics Some of the topics concerned improvements of current inoculation and incubation techniques ranging from sample pre treatment inoculum density and incubation temperature to statistical data handling New methods for calculating microbial diversity were proposed as well as bootstrap methods that allow statistics with many variables on a relatively low

number of replicates *Dynamics of Coral Communities* R.H. Karlson, 2002-10-31 This book focuses on the dynamical processes influencing the structure of coral communities some of the most biologically diverse communities on earth A variety of biological and physical processes operating across an enormous range of spatiotemporal scales are highlighted e.g. niche partitioning biological interactions disturbance phenomena large scale tectonic eustatic climatic and oceanographic processes The focus on the community provides a framework for presenting some of the best examples from the literature using multiple taxonomic groups e.g. corals fishes encrusting invertebrates Marine Metapopulations Jacob P. Kritzer, Peter F. Sale, 2010-07-20 Technological improvements have greatly increased the ability of marine scientists to collect and analyze data over large spatial scales and the resultant insights attainable from interpreting those data vastly increase understanding of population dynamics evolution and biogeography *Marine Metapopulations* provides a synthesis of existing information and understanding and frames the most important future directions and issues First book to systematically apply metapopulation theory directly to marine systems Contributions from leading international ecologists and fisheries biologists Perspectives on a broad array of marine organisms and ecosystems from coastal estuaries to shallow reefs to deep sea hydrothermal vents Critical science for improved management of marine resources Paves the way for future research on large scale spatial ecology of marine systems *Data Mining for Global Trends in Mountain Biodiversity* Eva M. Spehn, Christian Körner, 2009-09-28 Thanks to advances in electronic archiving of biodiversity data and the digitization of climate and other geophysical data a new era in biogeography functional ecology and evolutionary ecology has begun In *Data Mining for Global Trends in Mountain Biodiversity* Christian Körner Eva M. Spehn and a team of experts from the Global Mountain Biodiversity Assessment project present a synthesis of knowledge on mountain biodiversity and a team of experts from the Global Mountain Biodiversity Assessment project **Fern Ecology** Klaus Mehltreter, Lawrence R. Walker, Joanne M. Sharpe, 2010-06-03 Ferns are an integral part of the world's flora appreciated for their beauty as ornamentals problematic as invaders and endangered by human interference They often dominate forest understories but also colonize open areas invade waterways and survive in nutrient poor wastelands and eroded pastures Presented here is the first comprehensive summary of fern ecology with worldwide examples from Siberia to the islands of Hawaii Topics include a brief history of the ecological study of ferns a global survey of fern biogeography fern population dynamics the role of ferns in ecosystem nutrient cycles their adaptations to xeric environments and future directions in fern ecology Fully illustrated concepts and processes provide a framework for future research and utilization of ferns for graduate students and professionals in ecology conservation and land management

Tropical Forest Community Ecology Walter Carson, Stefan Schnitzer, 2011-08-31 Historically tropical ecology has been a science often content with descriptive and demographic approaches which is understandable given the difficulty of studying these ecosystems and the need for basic demographic information Nonetheless over the last several years tropical ecologists have begun to test more sophisticated ecological theory and are now beginning to address a broad array of questions that are of particular importance to tropical systems and ecology in general Why are there so many species in

tropical forests and what mechanisms are responsible for the maintenance of that vast species diversity What factors control species coexistence Are there common patterns of species abundance and distribution across broad geographic scales What is the role of trophic interactions in these complex ecosystems How can these fragile ecosystems be conserved Containing contributions from some of the world s leading tropical ecologists *Tropical Forest Community Ecology* provides a summary of the key issues in the discipline of tropical ecology Includes contributions from some of the world s leading tropical ecologists Covers patterns of species distribution the maintenance of species diversity the community ecology of tropical animals forest regeneration and conservation of tropical ecosystems *Spatial Modeling in Forest Resources Management* Pravat Kumar Shit,Hamid Reza Pourghasemi,Pulakesh Das,Gouri Sankar Bhunia,2020-10-08 This book demonstrates the measurement monitoring mapping and modeling of forest resources It explores state of the art techniques based on open source software R statistical programming and modeling specifically with a focus on the recent trends in data mining machine learning techniques and robust modeling in forest resources Discusses major topics such as forest health assessment estimating forest biomass carbon stock land use forest cover LUFC dynamic vegetation modeling DVM approaches forest based rural livelihood habitat suitability analysis biodiversity and ecology and biodiversity the book presents novel advances and applications of RS GIS and R in a precise and clear manner By offering insights into various concepts and their importance for real world applications it equips researchers professionals and policy makers with the knowledge and skills to tackle a wide range of issues related to geographic data including those with scientific societal and environmental implications

Ecological Niches Jonathan M. Chase,Mathew A. Leibold,2009-08-11 Why do species live where they live What determines the abundance and diversity of species in a given area What role do species play in the functioning of entire ecosystems All of these questions share a single core concept the ecological niche Although the niche concept has fallen into disfavor among ecologists in recent years Jonathan M Chase and Mathew A Leibold argue that the niche is an ideal tool with which to unify disparate research and theoretical approaches in contemporary ecology Chase and Leibold define the niche as including both what an organism needs from its environment and how that organism s activities shape its environment Drawing on the theory of consumer resource interactions as well as its graphical analysis they develop a framework for understanding niches that is flexible enough to include a variety of small and large scale processes from resource competition predation and stress to community structure biodiversity and ecosystem function Chase and Leibold s synthetic approach will interest ecologists from a wide range of subdisciplines *Indian Insects* S Ramani,Prashanth Mohanraj,Yeshwanth HM,2019-10-16 Insects are the most interesting and diverse group of organisms on earth many of which are useful as pollinators of crops and wild plants while others are useful as natural enemies keeping pestiferous insects in check It is important to conserve these insects for our survival and for this the diversity of insect species inhabiting the different ecosystems of our country must be known The cornerstone to studies of any kind of organismal diversity is their

taxonomic identity Even after over two and half centuries of studies so little is known of the insect wealth of our country It has contributions from taxonomists who have been studying Indian insects for long this book offers up to date information on many important groups of Indian insects seeking to fill the lacuna of a long felt need for a comprehensive work on the taxonomy of Indian insects Salient features Provides an up to date taxonomy of major insect groups of India Presents identification keys with illustrations of several important groups of Indian insects Gives a new insight into why insects are so abundant Addresses fundamental questions in mechanoreception and cross kingdom interactions using insects as model systems Indian Insects Diversity and Science is a festschrift to Professor C A Viraktamath an insect taxonomist par excellence It has been designed to cater to the needs of academicians researchers and students who wish to identify insects collected from local environments and will be an invaluable aid for those working in the areas of systematics ecology behaviour diversity and the conservation of insects

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

The Economy of Nature: Data Analysis Update Robert E. Ricklefs, Matt R. Whiles, 2007 An introductory text that offers a survey of ecology this work presents examples from natural history coverage of evolution and quantitative approach It includes 20 data analysis modules that introduce students to ecological data and quantitative methods used by ecologists

Earth System: History and Natural Variability - Volume III Vaclav Cilek, 2009-07-15 Earth System History and Natural Variability theme is a component of Encyclopedia of Natural Resources Policy and Management in the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty one Encyclopedias The Theme on Earth System History and Natural Variability with contributions from distinguished experts in the field presents a description of the cosmic environment around our planet influencing the Earth in a number of ways through variation of solar energy or meteorite impacts The structure of the Earth and its rocks

waters and atmosphere is described The Theme focuses on geological and evolutionary processes through the history of Earth s epochs and biomes since the Early Earth to the Quaternary The unifying processes between the Earth s life and its rocks waters and atmosphere are global natural cycles of carbon sulfur and other elements that connect and influence the rate of geological processes climate change biological evolution and human economy These five volumes are aimed at the following five major target audiences University and College students Educators Professional practitioners Research personnel and Policy analysts managers and decision makers and NGOs

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