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Ecology And Evolution Of Communities

Mark Vellend



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Ecology and Evolution of Communities Martin L. Cody, Jared M. Diamond, 1975 The evolution of species abundance and diversity Competitive strategies of resource allocation Community structure Outlook *Ecology and Evolution of Communities* Martin L. Cody, Jared M. Diamond, 1975 **The Theory of Ecological Communities (MPB-57)** Mark Vellend, 2016-08-23 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

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 Ecological Communities Takayuki Ohgushi, Timothy P. Craig, Peter W. Price, 2007-01-04 To gain a more complete understanding of plant based ecological community structure requires knowledge of the integration of direct and indirect effects in plant herbivore systems Trait modification of plants as a result of herbivory is very common and widespread in terrestrial plants and this initiates indirect interactions between organisms that utilise the same host plant This book argues that food webs by themselves are inadequate models for understanding ecological communities because they ignore important indirect nontrophic links This subject is of great importance in understanding not only community organisation but also in identifying the underlying mechanisms of maintenance of biodiversity in nature This book will be an invaluable resource for researchers and graduate students interested in community and population ecology evolutionary biology biodiversity botany and entomology Scale, Heterogeneity, and the Structure and Diversity of Ecological Communities Mark E. Ritchie, 2009-09-28 Understanding and predicting species diversity in ecological communities is one of the great challenges in community ecology Popular recent theory contends that the traits of species are neutral or unimportant to coexistence yet abundant experimental evidence suggests that multiple species are able to coexist on the same limiting resource precisely because they differ in key traits such as body size diet and resource demand This book presents a new theory of coexistence that incorporates two important aspects of biodiversity in nature scale and spatial variation in the supply of limiting resources Introducing an innovative model that uses fractal geometry to describe the complex physical structure of nature Mark Ritchie shows how species traits particularly body size lead to spatial patterns of resource use that allow species to coexist He explains how this criterion for coexistence can be converted into a rule for how many species can be packed into an environment given the supply of resources and their spatial variability He then demonstrates how this rule can be used to predict a range of patterns in ecological communities such as body size distributions species abundance distributions and species area relations Ritchie illustrates how the predictions closely match data from many real communities including those of mammalian herbivores grasshoppers dung beetles and birds This book offers a compelling alternative to neutral theory in community ecology one that helps us better understand patterns of biodiversity across the Earth Plant Communities and Their Environment Manuel Oliveira, Anabela Fernandes-Silva, Feyza Candan, 2020-09-09 This book presents different perspectives on how to understand the complex interaction between plants and the environment Plant communities adapt to biotic and abiotic stresses with different mechanisms and understanding these phenomena provides the means to better manage our environment and to cultivate crops that better serve our needs Evolutionary Community Ecology Mark A. McPeck, 2017-08-29 Evolutionary Community Ecology develops a unified framework for understanding the structure of ecological communities and the dynamics of natural selection that shape the evolution of the species inhabiting them All species engage in interactions with many other species and these interactions regulate their abundance define their trajectories of natural selection and shape their movement decisions Mark McPeck

synthesizes the ecological and evolutionary dynamics generated by species interactions that structure local biological communities and regional metacommunities McPeck explores the ecological performance characteristics needed for invasibility and coexistence of species in complex networks of species interactions This species interaction framework is then extended to examine the ecological dynamics of natural selection that drive coevolution of interacting species in these complex interaction networks The models of natural selection resulting from species interactions are used to evaluate the ecological conditions that foster diversification at multiple trophic levels Analyses show that diversification depends on the ecological context in which species interactions occur and the types of traits that define the mechanisms of those species interactions Lastly looking at the mechanisms of speciation that affect species richness and diversity at various spatial scales and the consequences of past climate change over the Quaternary period McPeck considers how metacommunity structure is shaped at regional and biogeographic scales Integrating evolutionary theory into the study of community ecology

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Roxburgh, 2019-03-21 Provides a comprehensive review of the role of species interactions in the process of plant community assembly **Handbook of Bird Biology** Irby J. Lovette, John W. Fitzpatrick, 2016-06-27 Selected by Forbes.com as one of

the 12 best books about birds and birding in 2016 This much anticipated third edition of the Handbook of Bird Biology is an essential and comprehensive resource for everyone interested in learning more about birds from casual bird watchers to formal students of ornithology Wherever you study birds your enjoyment will be enhanced by a better understanding of the incredible diversity of avian lifestyles Arising from the renowned Cornell Lab of Ornithology and authored by a team of experts from around the world the Handbook covers all aspects of avian diversity behaviour ecology evolution physiology and conservation Using examples drawn from birds found in every corner of the globe it explores and distills the many scientific discoveries that have made birds one of our best known and best loved parts of the natural world This edition has been completely revised and is presented with more than 800 full color images It provides readers with a tool for life long learning about birds and is suitable for bird watchers and ornithology students as well as for ecologists conservationists and resource managers who work with birds The Handbook of Bird Biology is the companion volume to the Cornell Lab's renowned distance learning course www.birds.cornell.edu/courses/home_homestudy **Ecological Assembly Rules** Evan Weiher, Paul

Keddy, 2001-08-16 Considers the evidence for the existence of unifying rules controlling the formation and maintenance of ecological communities *Primate Communities* J. G. Fleagle, Charles Janson, Kaye Reed, 1999-10-14 Comprehensive and

unique volume exploring the differences and similarities between primate communities worldwide **Handbook on Evolution and Society** Alexandra Maryanski, Richard Machalek, Jonathan H. Turner, 2015-11-17 Handbook on Evolution and Society brings together original chapters by prominent scholars who have been instrumental in the revival of evolutionary

theorizing and research in the social sciences over the last twenty five years Previously unpublished essays provide up to date critical surveys of recent research and key debates The contributors discuss early challenges posed by sociobiology the rise of evolutionary psychology the more conflicted response of evolutionary sociology to sociobiology and evolutionary psychology Chapters address the application and limitations of Darwinian ideas in the social sciences Prominent authors come from a variety of disciplines in ecology biology primatology psychology sociology and the humanities The most comprehensive resource available this vital collection demonstrates to scholars and students the new ways in which evolutionary approaches ultimately derived from biology are influencing the diverse social sciences and humanities

The Social Biology of Microbial Communities Institute of Medicine, Board on Global Health, Forum on Microbial Threats, 2013-01-10 Beginning with the germ theory of disease in the 19th century and extending through most of the 20th century microbes were believed to live their lives as solitary unicellular disease causing organisms This perception stemmed from the focus of most investigators on organisms that could be grown in the laboratory as cellular monocultures often dispersed in liquid and under ambient conditions of temperature lighting and humidity Most such inquiries were designed to identify microbial pathogens by satisfying Koch's postulates 3 This pathogen centric approach to the study of microorganisms produced a metaphorical war against these microbial invaders waged with antibiotic therapies while simultaneously obscuring the dynamic relationships that exist among and between host organisms and their associated microorganisms only a tiny fraction of which act as pathogens Despite their obvious importance very little is actually known about the processes and factors that influence the assembly function and stability of microbial communities Gaining this knowledge will require a seismic shift away from the study of individual microbes in isolation to inquiries into the nature of diverse and often complex microbial communities the forces that shape them and their relationships with other communities and organisms including their multicellular hosts On March 6 and 7 2012 the Institute of Medicine's IOM's Forum on Microbial Threats hosted a public workshop to explore the emerging science of the social biology of microbial communities Workshop presentations and discussions embraced a wide spectrum of topics experimental systems and theoretical perspectives representative of the current multifaceted exploration of the microbial frontier Participants discussed ecological evolutionary and genetic factors contributing to the assembly function and stability of microbial communities how microbial communities adapt and respond to environmental stimuli theoretical and experimental approaches to advance this nascent field and potential applications of knowledge gained from the study of microbial communities for the improvement of human animal plant and ecosystem health and toward a deeper understanding of microbial diversity and evolution **The Social Biology of Microbial Communities Workshop Summary** further explains the happenings of the workshop [Evolution of Cenozoic Land Mammal Faunas and Ecosystems](#) Isaac Casanovas-Vilar, Lars W. van den Hoek Ostende, Christine M. Janis, Juha Saarinen, 2023-08-08 This volume presents an array of different case studies which take as primary material data sourced from the NOW New and Old Worlds

database of fossil mammals The NOW database was one of the very first large paleobiological databases and since 1996 it has been expanded from including mainly Neogene European land mammals to cover the entire Cenozoic at a global scale In the last two decades the number of works that are based in the use of huge databases to explore ecological and evolutionary questions has increased exponentially and even though the importance of big data in paleobiological research has been outlined in selected chapters of general works no volume has appeared before this one which solely focuses on the databases as a primary source in reconstructing the past The purpose of this book is to provide an illustrative volume showing the importance of big data in paleobiological research and presenting a broad array of unpublished examples and case studies The book is mainly aimed to professional palaeobiologists working with Cenozoic land mammals but the scope of the book is broad enough to fit the interest for evolutionary biologists paleoclimatologists and paleoecologists The volume is divided in four parts The first part includes two chapters on the development of large paleobiological databases providing a first hand account on the logic and the functioning of these databases This is a much needed perspective which is ignored by most researchers and users of such databases and even if centered in the NOW database the lessons that can be learned from this part can be extended to other examples After this introductory part the body of the book follows and is divided into three parts patterns in regional faunas large scale patterns and processes and ecological biogeographical and evolutionary patterns of key taxa Each chapter is written by well known specialists in the field with some participation of members of the NOW advisory board The array of selected mammal taxa ranges from carnivores equids ruminants and rodents to the genus Homo The topics studied also include the diversification and radiation of major clades large scale paleobiogeographical patterns the evolution of ecomorphological patterns and paleobiological problems such as evolution of body size or species longevity In most cases the results are discussed in relation to protracted environmental or paleogeographic changes

Community Ecology Gary G. Mittelbach, Brian J. McGill, 2019-05-24 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 **Unifying Biology** Vassiliki Betty Smocovitis,1996-12 Unifying Biology offers a historical reconstruction of one of the most important yet elusive episodes in the history of modern science the evolutionary synthesis of the 1930s and 1940s For more than seventy years after Darwin proposed his theory of evolution it was hotly debated by biological scientists It was not until the 1930s that opposing theories were finally refuted and a unified Darwinian evolutionary theory came to be widely accepted by biologists Using methods gleaned from a variety of disciplines Vassiliki Betty Smocovitis argues that the evolutionary synthesis was part of the larger process of unifying the biological sciences At the same time that scientists were working toward a synthesis between Darwinian selection theory and modern genetics they were according to the author also working together to establish an autonomous community of evolutionists Smocovitis suggests that the drive to unify the sciences of evolution and biology was part of a global philosophical movement toward unifying knowledge In developing her argument she pays close attention to the problems inherent in writing the history of evolutionary science by offering historiographical reflections on the practice of history and the practice of science Drawing from some of the most exciting recent approaches in science studies and cultural studies she argues that science is a culture complete with language rituals texts and practices Unifying Biology offers not only its own new synthesis of the history of modern evolution but also a new way of doing history Changing Plankton Communities: Causes, Effects and Consequences Kristian Spilling,Letizia Tedesco,Riina Klais,Kalle Olli,2019-10-04 Marine ecosystems are changing at an unprecedented rate In addition to the direct effects of e g warming surface temperatures the environmental changes also cause shifts in plankton communities Plankton makes up the base of the marine food web and plays a pivotal role in global biogeochemical cycles Any shifts in the plankton community composition could have drastic consequences for marine ecosystem functioning This Research Topic focuses on causes effects and consequences of such shifts in the plankton community structure *Communities and Ecosystems* David A. Wardle,2002-05-12 Soil Hybrid Communities Charles Stépanoff,Jean-Denis Vigne,2018-08-06 Domestication challenges our understanding of human environment relationships because it blurs the dichotomy between what is artificial and what is natural In domestication biological evolution environmental change techniques and practices anthropological trajectories and sociocultural choices are inextricably interconnected Domestication is essentially a hybrid phenomenon that needs to be explored with hybrid scientific approaches Hybrid Communities Biosocial Approaches to Domestication and Other Trans species Relationships attempts for the first time to explore domestication viewed from across disciplines both in its origins and as an ongoing process This edited collection proposes new biosocial approaches and concepts which integrate the methods of social sciences archaeology and biology to shed new light on domestication in diachrony and in synchrony This book will be of great interest to all scholars working on human environment relationships and should also attract readers from the fields of social anthropology archaeology genetics ecology botany zoology history and philosophy

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