Phylogenies And Community Ecology

Community EcologyCommunity EcologyPopulation and Community EcologyCommunity EcologyCommunity EcologyEcological Versatility and Community EcologyCommunity EcologyCommunity EcologyApplied Population and Community EcologyA Framework for Community EcologyThe Theory of Ecological Communities (MPB-57)Population and Community Ecology for Insect Management and ConservationCommunity EcologyMarine Rocky Shores and Community EcologyTheoretical Approaches to Community EcologyPopulation and Community EcologyCommunity Ecology in a Changing WorldEvolutionary Community EcologyCommunity EcologyPopulation and Community Ecology for Insect Management and Conservation R. Putnam Jiro Kikkawa E. C. Pielou Gary G. Mittelbach Peter J. Morin Ralph C. MacNally Jared M. Diamond Herman A. Verhoef Jim Hone Paul A. Keddy Mark Vellend J. Baumgartner Mark Gardener Robert T. Paine Luís Borda-de-Água The Open The Open Courses Library John H. Lawton Mark A. McPeek Alan Hastings Taylor & Francis Group

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chapter 1 establishes the context of such a search for pattern presenting essential definitions and exploring early work on community structure and organization the various biotic and abiotic factors which may influence communities and their dynamics are reviewed in chapter 2 while the way in which the interrelationships between organisms are structured within the community in food webs or in the partitioning of available resources are considered in separate chapters on food webs niche relationships and

species guilds later chapters explore the factors determining the assembly of communities species composition and pattern of relative abundance and the relative roles of deterministic and stochastic processes in determining community structure the concluding section explores the implications of observed patterns of structure and organization for stability the mathematical analyses which are an essential component of this topic are included only where essential for understanding and are presented in special box features each mathematical section has been carefully structured and fully explained in biological terms community ecology presents a refreshingly readable course text for advanced undergraduates in ecology book jacket

this multi author text has been planned as a companion to the successful volumes on theoretical ecology behavioural ecology and physiological ecology mentioned elsewhere in this catalogue the editors have covered the main approaches in community ecology

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

all life on earth occurs in natural assemblages called communities community ecology is the study of patterns and processes involving these collections of two or more species communities are typically studied using a diversity of techniques including observations of natural history statistical descriptions of natural patterns laboratory and field experiments and mathematical modelling community patterns arise from a complex assortment of processes including competition predation mutualism indirect effects habitat selection which result in the most complex biological entities on earth including iconic systems such as rain forests and coral reefs this book introduces the reader to a balanced coverage of concepts and theories central to community ecology using examples drawn from terrestrial freshwater and marine systems and focusing on animal plant and microbial species the historical

development of key concepts is described using descriptions of classic studies while examples of exciting new developments in recent studies are used to point toward future advances in our understanding of community organization throughout there is an emphasis on the crucial interplay between observations experiments and mathematical models this second updated edition is a valuable resource for advanced undergraduates graduate students and established scientists who seek a broad overview of community ecology the book has developed from a course in community ecology that has been taught by the author since 1983 figures and tables can be downloaded for free from wiley com go morin communityecology

a comprehensive analysis of ecological specialisation and generalisation in natural communities first published in 1995

a pluralistic approach to community ecology

community ecology is the study of the interactions between populations of co existing species this book provides a survey of the state of the art in theory and applications of community ecology with special attention to topology dynamics the importance of spatial and temporal scale as well as applications to emerging problems in human dominated ecosystems including the restoration and reconstruction of viable communities it adopts a mainly theoretical approach and focuses on the use of network based theory which remains little explored in standard community ecology textbooks the book includes discussion of the effects of biotic invasions on natural communities the linking of ecological network structure to empirically measured community properties and dynamics the effects of evolution on community patterns and processes and the integration of fundamental interactions into ecological networks a final chapter indicates future research directions for the discipline this book provides ideal graduate seminar course material

part of the zoological society of london s conservation science and practice series applied population and community ecology evaluates theory in population and community ecology using a case study of feral pigs birds and plants in the high country of south eastern australia in sequence the book reviews the relevant theory and uses long term research over a quarter of a century on the population ecology of feral pigs and then community ecology of birds and plants to evaluate the theory the book brings together into one volume research results of many observational experimental and modelling studies and directly compares them with those from related studies around the world the implications of the results for future wildlife management are also discussed intended readers are ecologists graduate students in ecology and wildlife management and conservation and pest managers

offers a unifying framework for community ecology by addressing how communities are assembled from species pools

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

one of the themes of the 20th international congress of entomology held in florence in august 1996 was ecology and population dynamics with papers presented on single species dynamics population interactions and community ecology this book contains a selection of the papers that were presented and gives a late 1990s picture of the latest research in this fast developing area

interactions between species are of fundamental importance to all living systems and the framework we have for studying these interactions is community ecology this is important to our understanding of the planets biological diversity and how species interactions relate to the functioning of ecosystems at all scales species do not live in isolation and the study of community ecology is of practical application in a wide range of conservation issues the study of ecological community data involves many methods of analysis in this book you will learn many of the mainstays of community analysis including diversity similarity and cluster analysis ordination and multivariate analyses this book is for undergraduate and postgraduate students and researchers seeking a step by step methodology for analysing plant and animal communities using r and excel microsoft s excel spreadsheet is virtually ubiquitous and familiar to most computer users it is a robust program that makes an excellent storage and manipulation system for many kinds of data including community data the r program is a powerful and flexible analytical system able to conduct a huge variety of analytical methods which means that the user only has to learn one program to address many research questions its other advantage is that it is open source and therefore completely free novel analytical methods are being added constantly to the already

comprehensive suite of tools available in r mark gardener is both an ecologist and an analyst he has worked in a range of ecosystems around the world and has been involved in research across a spectrum of community types his knowledge of r is largely self taught and this gives him insight into the needs of students learning to use r for complicated analyses

population and community ecology concepts of biology communities include all the different species living in a given area the variety of these species is referred to as biodiversity many organisms have developed defenses against predation and herbivory including mechanical defenses warning coloration and mimicry two species cannot exist indefinitely in the same habitat competing directly for the same resources species may form symbiotic relationships such as commensalism mutualism or parasitism community structure is described by its foundation and keystone species communities respond to environmental disturbances by succession the predictable appearance of different types of plant species until a stable community structure is established chapter outline population demographics and dynamics population growth and regulation the human population community ecology the open courses library introduces you to the best open source courses

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 mcpeek synthesizes the ecological and evolutionary dynamics generated by species interactions that structure local biological communities and regional metacommunities mcpeek 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 mcpeek considers how metacommunity structure is shaped at regional and biogeographic scales integrating evolutionary theory into the study of community ecology evolutionary community ecology provides a new framework for predicting how communities are organized and how they may change over time

this book presents the proceedings of a workshop on community ecology organized at davis in april 1986 sponsored by the sloan

foundation there have been several recent symposia on community ecology strong et al 1984 diamond and case 1987 which have covered a wide range of topics the goal of the workshop at davis was more narrow to explore the role of scale in developing a theoretical approach to understanding communities there are a number of aspects of scale that enter into attempts to understand ecological communities one of the most basic is organizational scale should community ecology proceed by building up from population biology this question and its ramifications are stressed throughout the book and explored in the first chapter by simon levin notions of scale have long been important in understanding physical systems thus in understanding the interactions of organisms with their physical environment questions of scale become paramount these more physical questions illustrate the role scale plays in understanding ecology and are discussed in chapter two by akira okubo

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