Phylogenies And Community Ecology

Community EcologyCommunity EcologyPopulation and Community EcologyCommunity EcologyEcological Versatility and Community EcologyApplied Population and Community EcologyPopulation and Community Ecology for Insect Management and ConservationCommunity EcologyCommunity EcologyCommunity EcologyThe Theory of Ecological Communities (MPB-57)A Framework for Community EcologyCommunity EcologyMarine Rocky Shores and Community EcologyTheoretical Approaches to Community EcologyCommunity Ecology in a Changing WorldThe Effects of Recruitment Variation on Population and Community DynamicsElements of EcologyEvolutionary Community EcologyMarine Community Ecology R. Putnam Jiro Kikkawa E. C. Pielou Gary G. Mittelbach Ralph C. MacNally Jim Hone J. Baumgartner Herman A. Verhoef Peter J. Morin Jared M. Diamond Mark Vellend Paul A. Keddy Mark Gardener Robert T. Paine Lu□s Borda-de-□gua John H. Lawton Samantha Elizabeth Forde Thomas Michael Smith Mark A. McPeek Mark D. Bertness

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J. Morin Jared M. Diamond Mark Vellend Paul A. Keddy Mark Gardener Robert T. Paine Lu□s Borda-de-□gua John H. Lawton Samantha Elizabeth Forde Thomas Michael Smith Mark A. McPeek Mark D. Bertness

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

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

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

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

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

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 pluralistic approach to community ecology

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

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

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

key benefit elements of ecology sixth edition maintains its engaging reader

friendly style as it explains the basic principles of ecology the text is updated to include new chapters on current ecological topics new part introductions to connect the subfields of ecology and new in text features to encourage students to interpret the ecological data research and models used throughout the text abundant accessible examples illustrate and clarify the text s emphasis on understanding ecological patterns within an evolutionary framework additionally the text employs new study questions requiring students to make connections and apply their knowledge key topics introduction and background the nature of ecology adaptation and evolution the physical environment climate the aquatic environment the terrestrial environment organismal ecology plant adaptations animal adaptations life history patterns population ecology properties of populations population growth interspecific population regulation metapopulations the ecology of species interactions competition predation parasitism and mutualism community ecology community structure factors influencing the structure of communities community dynamics landscape ecology ecosystem ecology ecosystem energetics decomposition and nutrient cycling biogeochemical cycles biogeographical ecology terrestrial ecosystems aquatic ecosystems land water interface large scale patterns of biodiversity human ecology population growth resource use and sustainability habitat decline biodiversity and conservation ecology global climate change market for all readers interested in the basic principles ecology

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

marine community ecology was written to give advanced undergraduate and graduate students a current overview of what is known about the structure and organization of the assemblages of organisms that live on the sea floor each of the nineteen chapters is written by leading researchers to give students a look at our understanding of these communities and what remains to be learned about them the book is organized into three parts the first eight chapters explore general processes that generate pattern in benthic communities these introductory chapters examine how physical and biological forces interacting with historical and genetic constraints operate to structure marine communities the middle part examines the ecology of specific marine benthic community types ranging from rocky shores and soft substrate habitats to seagrass beds and coral reefs these chapters are intended to be the most up to date summaries available of our understanding of these communities the book closes with three chapters examining conservation and management issues of marine communities these

closing chapters emphasize how pervasively benthic marine communities are impacted by humans and outline how we can use our understanding of these systems to manage marine populations and communities and to design marine reserves marine community ecology is extensively referenced and includes a bibliography of over 5 000 citations it is suitable as a text for advanced marine ecology courses and seminars as well as a general reference for students and researchers

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