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Chapter 54: Community Ecology Fred and Theresa Holtzclaw Name Period Chapter 54: Community Ecology Concept 54.1 Community interactions are classified by whether they help, harm, or have no effect on the species involved. 1. What is a community? List six organisms that would be found in your schoolyard community Q Gorv.n^vn1f~ 1,s a 3rou~ of roPvta

This is an up-to-date study of patterns and processes involving two or more species. The book strikes a balance between plant and animal species and among studies of marine, freshwater and terrestrial communities.

A comprehensive account of joint species distribution modelling, covering statistical analyses in light of modern community ecology theory.

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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.

This edited volume in the Theoretical Ecology series addresses the historical development and evolution of theoretical ideas in the field of ecology. Not only does Ecological Paradigms Lost recount the history of the discipline by practitioners of the science of ecology, it includes commentary on these historical reflections by philosophers of science. Even though the theories discussed are, in many cases, are at the forefront of research, the language and approach make this material accessible to non-theoreticians. The book is structured in 5 major sections including population ecology, epidemiology, community ecology, evolutionary biology and ecosystem ecology. In each section a chapter by an eminent, experienced ecologist is complemented by analysis from a newer, cutting-edge researcher. Reflection on the past and future of ecology
A historical overview of major ideas in the field of ecology
Pairing of historical views by ecologists along with a philosophical commentary directed at the practicing scientists' views by a philosopher of science
Historical analysis by practicing ecologists including anecdotal experiences that are rarely recorded
Based on a very popular symposium at the 2002 Ecological Society of America annual meeting in Tucson, AZ

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

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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.

Over the past two decades much progress has been made in the study of ecology at the level of whole communities. The development of sophisticated modelling techniques capable of handling the complexity of interactions, together with increased rigour of analysis of field observation and recognition of the need for controlled experimentation, have led to tremendous advances in our understanding of communities and their dynamics. Progress has been so rapid, with advances made across such a broad range of fronts, that it is sometimes difficult to keep pace and retain a comprehensive overview of the entire discipline. Community Ecology focuses on a search for pattern in the structure, composition and dynamics of ecological communities, examining the similarities and differences in composition or structure to try to establish what factors may determine - or constrain - the way such communities are organized in space and time. 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.

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.

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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.

Biology for AP[®] courses covers the scope and sequence requirements of a typical two-semester Advanced Placement[®] biology course. The text provides comprehensive coverage of foundational research and core biology concepts through an evolutionary lens. Biology for AP[®] Courses was designed to meet and exceed the requirements of the College Board's AP[®] Biology framework while allowing significant flexibility for instructors. Each section of the book includes an introduction based on the AP[®] curriculum and includes rich features that engage students in scientific practice and AP[®] test preparation; it also highlights careers and research opportunities in biological sciences.

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