

ZOOPLANKTON ECOLOGY

Evolution and Ecology of Zooplankton Communities, edited by W. Charles Kerfoot. University Press of New England, Hanover, NH, 1980, 793 p., illus., \$45.00 (\$20-50491).

This volume represents the Proceedings of the Third Special Symposium of the American Society of Limnology and Oceanography held at Dartmouth College, 20-25 August 1978. The purpose of the symposium was to provide an atmosphere conducive to reflection and thought on zooplankton interactions with fish and phytoplankton. The symposium also provided a stimulus for synthesis for a field that has shown considerable progress and controversy over the past 10 to 15 years. In reality, the scope is much broader, including, for example, papers on genetics of zooplankton populations and orientation of crustaceans in time and space. The contributors (many from Europe) and themes were apparently chosen and organized to emphasize the diversity of interest and opinion in the developing area of zooplankton ecology and to provide a broad

international coverage with different points of view. Although this work is biased toward freshwater environments, it should be of considerable use to marine workers.

The 66 papers are arranged around 10 general themes from the level of individual behavior through population dynamics to community structure. This allows topics to build on one another and to allow some continuity in a lengthy volume. The introductory paper of chapter 1 by Zaret takes a unique point of view in attempting to describe the effects of physical properties of water (e.g., Reynolds's number) on individual zooplankton behavior. Ringelberg's discussion on "Causal and Teleological Aspects of Diurnal Vertical Migration" provides interesting reading in an area of many conflicting hypotheses. Boran's method for long-term continuous culture of rotifers in the "Rotifer Feeding and Population Dynamics" section will be of use to many of us. Lehman's paper in the "Plant-Herbivore Interaction" section reemphasizes the importance of nutrient regeneration by zooplankton grazing. Among the other exciting

contributions are the demonstration that filter feeding in copepods is not filtering at all but a high speed discrimination manipulation of particles, the recognition that the seasonal populations of rotifers and cladocerans involve seasonal events, and the suggestion that tropical freshwater zooplankton communities are impoverished. Many other interesting papers are to be found in the sections on "Genetics, Demographics and Life Histories of Zooplankton," "Cyclo-morphosis," "Predation, Prey Vulnerability," "Zooplankton Composition," "Spatial and Temporal Aspects of Community Structure," and "Community Structure: Experiment and Theoretic Approach."

In general, the field of zooplankton ecology is well covered with the notable exception of production ecology. The relatively new and continued productive use of scanning electron microscopy and high speed motion pictures for examining morphology and individual behavior is well represented. The scanning electron micrographs (SEM) of the Blades-Youngbluth and Friedman papers provide an exceptional visual review of both male and female morphological structures in the former paper and copepod receptors and oral structures in relation to filterfeeding in the later.

An unfortunate aspect of this volume is the lack of inclusion of the discussion that ensued after each presentation. One stated purpose of the symposium was to organize it in such a manner as to allow "creative ferment, synthesis, and lively debate." Much lively debate did, in fact, take place. In some instances, the discussion was indeed stimulating and provided an opportunity to do some creative thinking with many of the foremost researchers in the field of zooplankton ecology. Unfortunately, this discussion was not preserved in this volume. By at least attempting to include the discussion, as was done in the First Special Symposium of the American Society of Limnology and Oceanography "Nutrients and Eutrophication," some of this creative thought and reflection could have been preserved for nonparticipants in the symposium.

The general appearance of this volume is excellent, and it is remarkably free of typographical errors. Graphs, drawings and photographs are generally of high quality. The organizers of this symposium are to be congratulated for a well conceived and well executed cooperative effort.

This book should be required reading for graduate students as an adjunct to courses or as base material for seminar discussion. It presents new information, both descriptive and experimental. In presenting many new advances in zooplankton research, it often reviews much of the older literature. Zooplankton ecologists, as well as aquatic ecologists in general, will refer to it for years to come.

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AGING PLANTS

Senescence in Plants, edited by Kenneth V. Thimann. CRC Press, Inc., Boca Raton, Florida, 1980, 276p., illus., \$59.95.

The first book devoted to senescence in plants was Molisch (1937); the present work is only the second attempt on the subject. Molisch's book pre-dated modern hormone physiology which limited the scope of his analysis, but it provided a thoroughly researched, unified treatment of the subject. The present work encompasses material up to three years ago (early 1978) and is an amalgam of contributions from 13 authors which vary greatly in style (even to the arrangement of references) and quality.

In the opening article on senescence in plant development, Leopold provides a review of his pioneering work in this area but, disappointingly, eschews any attempt to point up relationships with recent work in the molecular biology of development.

In chapters 2 and 3, Osborne deals with biochemical aspects of senescence in seeds and Villiers concentrates on ultrastructural aspects. There is much of interest here although neither author does justice to recent work on membranes in this context, and the photographs of grids and some of the electron micrographs add little.

Chapter 4 is entitled "Senescence in Fungi" and has no apparent relevance in this volume. The phenomena described appear to result from the activities of viruses and plasmids, and it is of interest to note that the 78 references cited do not contain any which relate to senescence processes in green plants.

In chapter 5, Thimann deals with leaf senescence; the unwary reader should be alerted by

the introductory proposition that "with leaves, one can rapidly induce senescence in a number of ways, and there is as yet no reason to think that such induced senescence differs in any way from the natural process." As an antidote to this unwarranted assertion, the reader might consult Thomas and Stoddart (1979); Thimann's "Cellular" and "Organismic" explanations of the mechanisms of senescence, involving stomatal interrelationships and effects on photophosphorylation, though suggestive, require a much more rigorous treatment.

In chapter 6, Frith and Dalling provide a thoughtful assessment of the role of peptide hydrolases in leaf senescence, and it is presumably not their fault that the long period that has obviously elapsed between the completion of their manuscript and the appearance of this volume has weakened the value of their contribution.

Flower senescence is discussed by Mayak and Hadery in a nicely rounded article (chapter 7), and fruit senescence by Rhodes (chapter 8). An odd little contribution on pigment changes in fruits comprises chapter 9; there can surely be no justification for the according of chapter status to a topic such as this when important major aspects of senescence in cytodifferentiation are inexplicably omitted.

In the concluding chapter, Noodin provides a scholarly and well-researched discussion of senescence in the whole plant, which is rendered unnecessarily imposing by the lack of any illustrations. The particular value of this book will be as a work of reference for the specialist.

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Evolution And Ecology Of Zooplankton Communities

Gary G. Mittelbach, Brian J. McGill



Evolution And Ecology Of Zooplankton Communities:

Evolution and Ecology of Zooplankton Communities W. Charles Kerfoot, American Society of Limnology and Oceanography, 1980 *Evolution and ecology of zooplankton communities*, 1980 **Evolution and Ecology of Zooplankton Communities** American Society Limnological Oceanography Symposium, 1980 Zooplankton Community Analysis W.M. Jr. Lewis, 2012-12-06 This book is based on the premise that the study of ecological communities should be a composite analysis of system properties community structure community energetics and population properties life history patterns adaptive strategies backed by a thorough understanding of the physical chemical environment Too frequently community ecology takes a much narrower focus This may partly be the result of perceived antagonisms between schools of thought in ecology Despite their rather separate origins the multiple theoretical and methodological tools that now exist must be applied synthetically to real communities if the progress of the past two decades is to continue into the next two This book has a case history format which increases the opportunity for detailed analysis although I have attempted to maintain the general perspective of a community ecologist and to draw extensively from the literature whenever it seems profitable to do so The case history data are for Lake Lanao a large tropical lake The main zooplankton data base used in the analysis is entirely original and unpublished although the detailed supporting data on the physical chemical environment and the phytoplankton community have been presented in numerous journal articles and are thus abstracted or used selectively to meet the needs of zooplankton community analysis Evolution and Ecology of Zooplankton Communities W. C. KERFOOT, W. C. Kerfoot, Evolutionary Ecology of Freshwater Animals B. Streit, T. Städler, C.M. Lively, 2013-03-11 Evolutionary ecology includes aspects of community structure trophic interactions life history tactics and reproductive modes analyzed from an evolutionary perspective Freshwater environments often impose spatial structure on populations e.g. within large lakes or among habitat patches facilitating genetic and phenotypic divergence Traditionally freshwater systems have featured prominently in ecological research and population biology This book brings together information on diverse freshwater taxa with a mix of critical review synthesis and case studies Using examples from bryozoans rotifers cladocerans molluscs teleosts and others the authors cover current conceptual issues of evolutionary ecology in considerable depth The book can serve as a source of critically evaluated ideas detailed case studies and open problems in the field of evolutionary ecology It is recommended for students and researchers in ecology limnology population biology and evolutionary biology

Zooplankton Petra. H. Lenz, 2021-09-10 Zooplankton is a major work of reference for researchers in plankton biology physiology and behavior which combines behavioral and psychological approaches to the study of plankton on present and interdisciplinary investigation of sensory processes in pelagic environments The breadth of perspective thus achieved provides valuable insights into the larger scale ecological processes of biological productivity community structure and population dynamics Technological advances in almost all aspects of biological research have opened up opportunities for a

re examination of the sensory ecology of planktonic organisms In this wide ranging collection leading researchers in planktonic behavior and physiology address the rapidly developing interface between these two major areas The studies presented range from the laboratory to the field and from the cell to the whole organism but share the common goal of understanding the special sensory world of organisms that live in pelagic environments and how their behavior and physiology relate to it

Intrazooplankton Predation Henri J. Dumont, J.G. Tundisi, K. Roche, 2012-12-06

Evolution and Ecology of Zooplankton Communities W. Charles Kerfoot,

Plankton Ecology Ulrich Sommer, 2012-12-06

All relevant ecological aspects of plankton especially seasonal changes in the species composition the role of competition for limiting resources in species replacements the role of parasitism predation and competition in seasonal succession are treated in detail considering phytoplankton zooplankton and bacteroplankton In addition to its use as a valid reference book for plankton ecology this monograph may well be used as a model for other kinds of ecological communities

The Dynamics and Use of Lacustrine Ecosystems V. Ilmavirta, R.I. Jones, 2012-12-06

Limnology is increasingly concerned with water supply and the relation of man to aquatic environments Without the continued availability of pure water all progress in technology and other fields of human life will be to no avail The global problems concerning clear water are already extremely pressing More limnology knowledge is needed to solve these problems The responsibility of man to save water and to take more intensive care of the environment is raised in many of the papers in this book This emphasizes the necessary and unquestionable relevance of limnology to human society Too often the abuse of water usage reflects the neglect of scientific results Limnologists have a responsibility to ensure that administrators understand what is going on The coverage of the book is wide including papers on microbiology to engineering sciences The biology of waters is handled at both species and ecosystem levels The geographical distribution of topics ranges from the tropics to northern temperate areas In fact limnology is increasingly becoming a science which is rightly relevant to everyday life not just an academic subject

Ecology and Classification of North American Freshwater Invertebrates James H. Thorp, Alan P. Covich, 2001-05-11

The First Edition of Ecology and Classification of North American Freshwater Invertebrates has been immensely popular with students and researchers interested in freshwater biology and ecology limnology environmental science invertebrate zoology and related fields The First Edition has been widely used as a textbook and this Second Edition should continue to serve students in advanced classes The Second Edition features expanded and updated chapters especially with respect to the cited references and the classification of North American freshwater invertebrates New chapters or substantially revised chapters include those on freshwater ecosystems snails aquatic spiders aquatic insects and crustaceans Most up to date and informative text of its kind Written by experts in the ecology of various invertebrate groups coverage emphasizes ecological information within a current taxonomic framework Each chapter contains both morphological and taxonomic information including keys to North American taxa usually to the generic level as well as bibliographic information and a list of further

readings The text is geared toward researchers and advanced undergraduate and graduate students

Lake and Reservoir Management North American Lake Management Society. Conference, 1985

Plankton Regulation Dynamics Norbert Walz, 2012-12-06 Continuous cultures i.e. chemostats with an continuous dilution rate are model ecosystems for the study of general regulation principles in plankton communities Further to an introduction general continuous culture methods and especially the characteristics of rotifer continuous culture systems are presented Sections on metabolism and energetics in chemostats growth models competition and predator prey interactions as well as the application of rotifer continuous cultures to ecotoxicology and their use in aquaculture are included

Aquatic Biodiversity II H. Segers, K. Martens, 2005-07-26 Water is Life Freshwater is one of the most valuable commodities on our planet and this resource should be managed in a sustainable way Yet we are less than careful in the way we use water and many of our non marine aquatic habitats are threatened by anthropogenic impacts Eutrophication for example could well turn into one of the major social as well as economic problems of the 21st century Reduction of water quality also has a profound effect on the biota that depend on these water bodies such as micro organisms plants and animals Freshwater Biodiversity is a much underestimated component of global biodiversity both in its diversity and in its potential to act as models for fundamental research in evolutionary biology and ecosystem studies Freshwater organisms also reflect quality of water bodies and can thus be used to monitor changes in ecosystem health The present book deals with all of these aspects of Aquatic Biodiversity It comprises a unique collection of primary research papers spanning a wide range of topics in aquatic biodiversity studies and including a first global assessment of specific diversity of freshwater animals The book also presents a section on the interaction between scientists and science policy managers A target opinion paper lists priorities in aquatic biodiversity research for the next decade and several reactions from distinguished scientists discuss the relevance of these items from different points of view fundamental ecology taxonomy and systematics needs of developing countries present day biodiversity policy at European and at global scales It is believed that such a platform for the interaction between science and science policy is an absolute necessity for the efficient use of research budgets in the future

Reproductive Biology Martin Thiel, 2013 Rickey Cothran and Martin Thiel explore the reproductive biology of crustaceans from allocation strategies at the individual level to the ecology of mating systems

Reproductive Biology Rickey Cothran, Martin Thiel, 2020-06-18 Rickey Cothran and Martin Thiel explore the reproductive biology of crustaceans from allocation strategies at the individual level to the ecology of mating systems

Marine Ecosystems and Global Change Manuel Barange, 2010-02-11 Global changes including climate change and intensive fishing are having significant impacts on the world's oceans This book advances knowledge of the structure and functioning of marine ecosystems and their major sub systems and how they respond to physical forcing

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

Wetzel's Limnology Ian D. Jones, John P. Smol, 2023-09-16 Wetzel s Limnology Lake and River Ecosystems Fourth Edition presents a fully updated revision of the classic textbook Limnology Lake and River Ecosystems last published in 2001 The coverage has been thoroughly updated with recent research and theoretical developments Each chapter of this edited volume has been written by an expert or team of experts providing a comprehensive and global perspective with the editors working closely with the authors to maintain continuity within and between the chapters This is not only an essential textbook for undergraduate and graduate students in limnology but also a standard reference book for seasoned limnologists and other scientists Chapters from the third edition have been updated by an international team of experts incorporating developments from the past two decades Several new chapters have been added reflecting exciting developments in the field of limnology New color illustrations and images throughout Detailed summaries at the end of each chapter

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