

# Ecology of Marine Bivalves

## An Ecosystem Approach

Second  
Edition



Richard F. Dame



CRC Press  
Taylor & Francis Group

# Ecology Of Marine Bivalves An Ecosystem Approach

**Michal Rosen-Zvi**



## **Ecology Of Marine Bivalves An Ecosystem Approach:**

*Ecology of Marine Bivalves* Richard F. Dame, 1996-08-28 Bivalves such as clams and oysters are species having two valved shells In the marine ecosystem these species play a unique and essential role This book examines the ecology of bivalves from an ecosystem or holistic view taking into consideration their processes interactions and components Studies of bivalves at the physical organismic and population levels are presented as foundations for understanding ecosystem processes Ecology of Marine Bivalves An Ecosystem Approach explores the potential use of bivalves as indicators and monitors of ecosystem health and describes experiments from the perspective of computer simulations mesocosm studies and field manipulation experiments The theories of many areas of science support the various approaches Concise reviews and more than 70 tables and figures give you rapid access to synthesized data about these keystone species

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*Ecosystem Concepts for Sustainable Bivalve Mariculture* National Research Council, Division on Earth and Life Studies, Ocean Studies Board, Committee on Best Practices for Shellfish Mariculture and the Effects of Commercial Activities in Drakes Estero, Pt. Reyes National Seashore,

California,2010-04-18 U S mariculture production of bivalve molluscs those cultivated in the marine environment has roughly doubled over the last 25 years Although mariculture operations may expand the production of seafood without additional exploitation of wild populations they still depend upon and affect natural ecosystems and ecosystem services Every additional animal has an incremental effect arising from food extraction and waste excretion Increasing domestic seafood production in the United States in an environmentally and socially responsible way will likely require the use of policy tools such as best management practices BMPs and performance standards BMPs represent one approach to protecting against undesirable consequences of mariculture An alternative approach to voluntary or mandatory BMPs is the establishment of performance standards for mariculture Variability in environmental conditions makes it difficult to develop BMPs that are sufficiently flexible and adaptable to protect ecosystem integrity across a broad range of locations and conditions An alternative that measures performance in sustaining key indicators of ecosystem state and function may be more effective Because BMPs address mariculture methods rather than monitoring actual ecosystem responses they do not guarantee that detrimental ecosystem impacts will be controlled or that unacceptable impact will be avoided Ecosystem Concepts for Sustainable Bivalve Mariculture finds that while performance standards can be applied for some broad ecosystem indicators BMPs may be more appropriate for addressing parameters that change from site to site such as the species being cultured different culture methods and various environmental conditions This book takes an in depth look at the environmental social and economic issues to present recommendations for sustainable bivalve mariculture

**Pollution Impacts on Marine Biotic Communities** Michael J. Kennish,2020-11-25 Pollution of estuaries and coastal marine waters is of profound ecological and societal importance These coastal environments serve as critical habitat for a multitude of organisms and are of great commercial and recreational value to humans Designed to meet the research monitoring and assessment needs of scientists administrators planners and managers Pollution Impacts on Marine Biotic Communities is a uniquely comprehensive reference covering pollution in coastal marine and estuarine waters The book provides a detailed look at the short and long term impacts of pollutants on these ecologically important regions Case studies that reflect a broad range of pollution problems are analyzed outlining the real life issues and providing solutions to common problems Despite being highly sensitive systems estuarine and coastal marine environments have served as repositories for dredge spoils sewage sludge and industrial and municipal effluents for many decades The adverse effects of these pollutants are only now being fully realized and understood Pollution Impacts on Marine Biotic Communities includes a basic introduction to the subject of pollution in estuarine and marine environments and also a detailed examination of specific marine pollutants Both the coverage and the format which includes abundant illustrations and tables make this book a valuable reference for scientists administrators and students engaged in coastal research and planning

*The Biology of Sea Turtles, Volume I* Peter L. Lutz,John A. Musick,2017-12-06 Sea turtles have existed for millions of years making them fascinating subjects of study In

the last 20 years the science of sea turtle biology has expanded at an exponential rate leading to major advances in many areas This book synthesizes the results of these advances and focuses on how these endangered marine reptiles operate in adapt to and are dependent upon particular features of their marine environment New technology in data gathering such as DNA analyses remote sensing and physiological monitoring techniques has led to a much greater understanding of the biology of the sea turtle at all stages of their life history *Molluscan shellfish research and management* ,2004

**The Comparative Roles of Suspension-Feeders in Ecosystems** Richard F. Dame,Sergej Olenin,2006-03-30 Animals are a major link between the water column pelagic and the bottom benthic habitats in most shallow systems This coupling is dominated by active processes such as suspension feeding in which the organism actively uses energy to pump water that is then filtered to remove suspended particles that are consumed while undigested remains are deposited on the bottom As a result of this feeding on and metabolism of particles the animals excrete dissolved inorganic and organic waste back into the water column and thus become major components in the cycling and feedback of essential elements With relatively high weight specific filtration rates of 1 10 liters hour gram dry tissue and a propensity to form large aggregated populations beds reefs schools and swarms these organisms can play an important role in regulating water column processes Although estuarine bivalve molluscs such as oysters and mussels dominate the suspension feeder literature other groups including plankton and nekton that are found in estuarine as well as other aquatic systems are also potentially important removers of suspended particles Thus a significant part of the NATO Advanced Research Workshop focused on suspension feeders as controllers of plankton abundance biomass and diversity system metabolism nutrient cycling and scale dependency Systems dominated by suspension feeders are typically impacted by human activities including recreation aquaculture human and industrial pollution and bilge water from shipping Suspension feeders are often impacted by fisheries and over exploitation These impacts commonly result in changes in ecosystem structure either through the food chain concentration of harmful substances or diseases the introduction of alien species of suspension feeders or the instability of suspension feeders systems through species displacement or phase shifts in the dominance between different suspension feeding components such as nekton or zooplankton These issues were addressed near the close of the workshop along with conclusions and syntheses developed by the working groups

**Artificial Reef Evaluation** William Seaman,2000-03-23 Beneath the coastal waters of the world lie thousands of artificial reefs Some are old and retired freighters and ships that once plied the oceans of the world but now serve as habitats for marine life Others are newer reefs that have been designed and built for specific applications With the field of aquatic habitat technology continually growi

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The book examines in detail anthropogenic effects on estuarine and marine ecosystems from local regional and global perspectives A truly international collection of data is presented in an organized framework on a wide range of subject areas including eutrophication organic loading oil pollution polycyclic aromatic hydrocarbons halogenated hydrocarbons trace metals radioactive waste dredging and dredged spoil disposal and effects of electric generating stations Whether you are a student a scientist a policy maker or an administrator you no longer need to spend countless hours rounding up information and data Practical Handbook of Estuarine and Marine Pollution has already done it for you

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Practical Handbook of Marine Science, Third Edition Michael J. Kennish, 2000-12-27 As a practicing professional in the field of marine science you need easily accessible accurate and up to date information at your fingertips Practical Handbook of Marine Science Third Edition provides a comprehensive reference containing the critical information necessary to meet the multidisciplinary research needs of all marine scientists researchers and anyone involved in managing marine resources Consisting of a user friendly multi sectional format this single volume databook offers extensive illustrative and tabular reference material covering all the major disciplines related to the sea What s new in the New Edition Presented in an easy to use logically arranged format Practical Handbook of Marine Science Third Edition serves as a quick reference to all disciplines of marine science While building on the strong base provided by the previous editions this is a completely updated version that includes Completely revised text to reflect the latest knowledge in marine science Extensive references from recent sources 1995 2000 Current tables A wealth of new illustrations and tables Highlighting the interdisciplinary nature of marine science this handbook covers a wide range of topics and is a quick and easy reference to a multitude of marine science subjects Although this state of the art reference has been designed for marine scientists administrators and other professionals who deal with the management of marine resources and the investigation of anthropogenic impacts on marine systems will find the information accessible and useful The Practical Handbook of Marine Science Third Edition is your first resource when you need current concise and detailed data

**Chemical Oceanography, Third Edition** Frank J. Millero, 2005-09-09 Chemical Oceanography Third Edition is a survey of essential concepts that contains a wealth of new data and maps resulting in a more in depth examination of oceanic biogeochemical processes The most up to date compilation of essential concepts and data available on the subject this book responds to the need for a thorough yet straightforward approach to the subject for students researchers and other professionals in marine science geochemistry and environmental chemistry The third edition of Chemical Oceanography incorporates significant findings on the properties of oceans from recent large scale oceanographic programs and valuable new data derived from additional experiments It also discusses the

interactions of metals with inorganic and natural organic ligands and the effect of speciation of metals on bioavailability and toxicity The section on carbonate systems now examines the input of fossil fuel CO<sub>2</sub> into the ocean and its effect on the pH of the world oceans Frank J Millero a world renowned marine researcher and professor of undergraduate and graduate courses at the University of Miami for nearly 40 years presents a time tested and user friendly resource specifically designed for both classroom use and self study

**Coastal Lagoons** Michael J. Kennish, Hans W. Paerl, 2010-06-15 Written by an outstanding group of contributors this book examines the function and structure of coastal lagoonal ecosystems and the natural and anthropogenic drivers of change that affect them most notably nutrient over enrichment from coastal watersheds and airsheds The contributors target the susceptibility of coastal lagoons to eutrophication the indicators of eutrophic conditions the influences of natural factors such as major storms and other climate effects and the resulting biotic and ecosystem impairments that have developed The book compares biogeochemical and ecological response to nutrient enrichment and other pollutants in lagoonal estuaries to those in other estuarine types

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**Restoration of Aquatic Systems** Robert J. Livingston, 2005-07-11 Simplistic thinking would have us believe that by eliminating the loading of a given pollutant an aquatic system will revert to its previous pristine state This premise is without scientific verification Besides the fact that typically very little documentation exists defining what exactly that previous pristine state was it should be noted tha

*Coastal Pollution* Carl J. Sindermann, 2005-12-20 In 1996 after more than a decade of researching the effects of over population and the consequent pollution of the greater metropolitan New York City area Carl Sindermann published his observations and conclusions in *Ocean Pollution Effects on Living Resources and Humans* a mostly technical document that emphasized the pathological effects of co

**Acoustic Fish Reconnaissance** I.L. Kalikhman, K. I. Yudanov, 2006-03-21 Until now there has not been any work that systematically presents the subject of acoustic fish reconnaissance details all major aspects of applying acoustic equipment in commercial fish reconnaissance and offers sufficient analysis of the effectiveness of fish finding techniques Acoustic Fish Reconnaissance responds to this need by providing t

**Estuarine Research, Monitoring, and Resource Protection** Michael J. Kennish, 2003-09-25 The ongoing growth of human populations within US coastal regions continues to increase habitat loss eutrophication organic loading overfishing and other anthropogenic stressors in estuarine waters The National Estuarine Research Reserve System NERRS is a federally funded initiative that addresses these critical estuarine problems an

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