



marine biodiversity & ecosystem functioning

frameworks, methodologies, & integration

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Marine Biodiversity And Ecosystem Functioning Frameworks Methodologies And Integration

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Marine Biodiversity And Ecosystem Functioning Frameworks Methodologies And Integration:

Marine Biodiversity and Ecosystem Functioning Martin Solan, Rebecca J. Aspden, David M. Paterson, 2012-07-19 The biological composition and richness of most of the Earth's major ecosystems are being dramatically and irreversibly transformed by anthropogenic activity. Yet despite the vast areal extent of our oceans, the mainstay of research to date in the biodiversity ecosystem functioning arena has been weighted towards ecological observations and experimentation in terrestrial plant and soil systems. This book provides a framework for extending these concepts to a variety of marine systems. **Marine Biodiversity and Ecosystem Functioning** is the first book to address the latest advances in biodiversity function science using marine examples. It brings together contributions from the leading scientists in the field to provide an in-depth evaluation of the science before offering a perspective on future research directions for some of the most pressing environmental issues facing society today and in the future.

Marine Biodiversity and Ecosystem Functioning Martin Solan, Rebecca J. Aspden, David M. Paterson, 2012-07-19 This edited volume is the first to address the latest advances in biodiversity function science using marine examples. It provides an in-depth evaluation of the science before offering a perspective on future research directions for some of the most pressing environmental issues facing society today and in the future.

Marine Biodiversity, Climatic Variability and Global Change Grégory Beaugrand, 2014-11-28 Biodiversity loss in terrestrial environments associated with human activities has been appreciated as a major issue for some years now. What is less well documented is the effect of such activities including climate change on marine biodiversity. This pioneering book is the first to address this important but neglected topic which is likely to be the key challenge for marine scientists in the near future. Using a multidisciplinary and a holistic approach, the book reveals how climatic variability controls biodiversity at time scales ranging from synoptic meteorological events to millions of years and at spatial scales ranging from local sites to the whole ocean. It shows how global change including anthropogenic climate change, ocean acidification and more direct human influences such as exploitation, pollution and eutrophication may alter biodiversity, ecosystem functioning and regulating and provisioning services. The author proposes a theory termed the macroecological theory on the arrangement of life which explains how biodiversity is organized and how it responds to climatic variability and anthropogenic climate change. The book concludes with recommendations for further research and theoretical development to identify oceanic areas in need of observation and gaps in current scientific knowledge. Many references and comparisons with the terrestrial realm are included in all chapters to better understand the universality of the relationships between biodiversity, climate and the environment. The book will serve as a textbook for all students and researchers of marine science and environmental change but will also be accessible to the more general reader.

Marine Ecosystems Tasman P. Crowe, Christopher L. J. Frid, 2015-06-18 Ecosystem services are emerging as a key driver of conservation policy and environmental management. Delivery of ecosystem services depends on the efficient functioning of ecosystems which in turn depends on biodiversity and

environmental conditions Many marine ecosystems are extremely productive and highly valued but they are increasingly threatened by human activities With contributions from leading researchers this volume synthesises current understanding of the effects on biodiversity and ecosystem functioning caused by a variety of human activities and pressures at play in coastal marine ecosystems The authors examine the likely consequences for ecosystem service provision covering key topics including fisheries aquaculture physical structures nutrients chemical contaminants marine debris and invasive species Critically reviewing the latest developments this is a unique resource both for environmental managers and policy makers and for researchers and students in marine ecology and environmental management

Living Along Gradients: Past, Present, Future Ulrich Bathmann, Hendrik Schubert, Elinor Andrén, Laura Tuomi, Teresa Radziejewska, Karol Kulinski, Irina Chubarenko, 2020-02-24

Marine Biology Roberto Danovaro, Paul Snelgrove, 2024-05-06

MARINE BIOLOGY Marine Biology Comparative Ecology of Planet Ocean provides a learning tool to those who love the ocean to help them understand and learn about the life that populates it the extraordinary adaptations of marine organisms to their environment and the spectacular variety of marine life forms that inhabit the many marine habitats and contribute to the life support system of Planet Ocean The book introduces marine biology by seeing the ocean through the eyes of its inhabitants describing the properties of sea water the surface waters and its currents and the characteristics of the seabed according to how marine organisms perceive exploit and shape them This book explains to the reader and those who love the ocean not only how to recognize the most common marine organisms and habitats from the coast to great depths but it also explains their complex life cycles and the environmental factors controlling their distribution reproduction and growth Finally the book evaluates the role that living biota play in how different marine ecosystems function in order to understand better their characteristics peculiarities and threats This book offers an up to date and comprehensive text on the study of marine biology presenting insights into the methodologies scientists have adopted for the study of marine ecosystems It also includes chapters about human impacts on marine biodiversity from overfishing to climate change from pollution including microplastics to alien species invasions from conservation of marine resources to the restoration of degraded marine habitats The authors developed this text for Bachelor and Master s level students taking classes on marine biology and marine ecology but it will also interest high school students and marine enthusiasts dive masters tour guides who wish to deepen their knowledge of marine biology

Ecology of Coastal Marine Sediments Simon Thrush, Judi Hewitt, Conrad Pilditch, Alf Norkko, 2021 This accessible textbook provides an ideal point of entry into the field providing basic information on the nature of soft sediment ecosystems examples of how and why we research them the new questions these studies inspire and the applications that ultimately benefit society

The International Seabed Authority and the Precautionary Principle Aline L. Jaeckel, 2017-01-05 With the transition to the commercial scale exploitation of deep seabed minerals the International Seabed Authority s obligation to protect the marine environment is being tested In The International Seabed Authority and the

Precautionary Principle Aline L Jaeckel provides the first in depth analysis of the Authority's work in regulating and managing deep seabed minerals This book examines whether and to what extent the Authority is implementing the precautionary principle in practice This includes the development of adequate environmental protection standards as well as procedural safeguards and decision making processes that facilitate risk assessment and risk management In doing so the author offers an insightful example of how the precautionary principle can be translated into a practical management tool

Bridging the Gap Between Policy and Science in Assessing the Health Status of Marine Ecosystems, 2nd Edition Angel Borja, Michael Elliott, María C. Uyarra, Jacob Carstensen, Marianna Mea, 2017-03-22 Marine management requires approaches which bring together the best research from the natural and social sciences It requires stakeholders to be well informed by science and to work across administrative and geographical boundaries a feature especially important in the inter connected marine environment Marine management must ensure that the natural structure and functioning of ecosystems is maintained to provide ecosystem services Once those marine ecosystem services have been created they deliver societal goods as long as society inputs its skills time money and energy to gather those benefits However if societal goods and benefits are to be limitless society requires appropriate administrative legal and management mechanisms to ensure that the use of such benefits do not impact on environmental quality but instead support its sustainable use **New Horizons in Meiobenthos Research** Olav Giere, Michaela Schratzberger, 2023-03-23 Since research on meiobenthos was last compiled in a textbook 2008 2009 the number of theoretical and applied studies has been growing rapidly Supported by new methods and digital evaluation meiobenthology has developed into a wide field with more and more researchers studying cross disciplinary aspects New perspectives were summarized in a booklet 2019 to draw attention to promising research directions The present book written by leading experts is a compilation of new thinking data methods and approaches in many relevant fields of recent meiobenthos research The topics addressed range from bacteria and biofilms to globally changing processes from polar regions to the deep sea and from freshwater ecosystems to the ocean So this book is not simply another meiobenthos textbook it is an attempt to identify new horizons in meiobenthos research driven by the vision of advancing knowledge and understanding of benthic ecosystems Chapter Polar Meiofauna Antipodes or Parallels is available open access under a Creative Commons Attribution 4.0 International License via link.springer.com Diatom Gliding Motility Stanley A. Cohn, Kalina M. Manoylov, Richard Gordon, 2021-09-08 DIATOM GLIDING MOTILITY Moving photosynthetic organisms are still a great mystery for biologists and this book summarizes what is known and reports the current understanding and modeling of those complex processes The book covers a broad range of work describing our current state of understanding on the topic including historic knowledge and misconceptions of motility evolution of diatom motility diatom ecology cell biology and biochemistry of diatom motility anatomy of motile diatoms observations of diatom motile behavior diatom competitive ability unique forms of diatom motility as found in the genus *Eunotia* and models of

motility This is the first book attempting to gather such information surrounding diatom motility into one volume focusing on this single topic Readers will be able to gather both the current state of understanding on the potential mechanisms and ecological regulators of motility as well as possible models and approaches used to help determine how diatoms accomplish such varied behaviors as diurnal movements accumulation into areas of light niche partitioning to increase species success Given the fact that diatoms remain one of the most ecologically crucial cells in aquatic ecosystems we hope that this volume will act as a springboard towards future research into diatom motility and even better resolution of some of the issues in motility Audience Diatomists phycologists aquatic ecologists cellular physiologists environmental biologists biophysicists diatom nanotechnologists algal ecologists taxonomists

Marine Biomaterials Sougata Jana,Subrata Jana,2022-04-23 This book provides updated information on marine based biomedical carriers and their therapeutic potential Marine biomaterials and bio based carriers show wide application in pharmaceutical and biomedical fields to deliver small and large molecules Biomaterial based composites scaffolds or matrix systems are sound systems for controlled and prolonged drug release in target sites and control the premature release of drugs or bioactive compounds This book discusses essential topics such as the therapeutic potential of marine collagen management of bone disorders gene delivery natural marine compounds in immunomodulation theranostic applications tissue engineering and regeneration It also describes the use of marine biopolymers in cancer therapy Different chapters describe the tissue engineering techniques to develop these carriers Marine biomaterial based systems are popular for tissue engineering and biomedical imaging This book is ideal for industry experts students and researchers in pharmaceutical sciences and pharmacology

Stressors in the Marine Environment Martin Solan,Nia Whiteley,2016-03-10 A multitude of direct and indirect human influences have significantly altered the environmental conditions composition and diversity of marine communities However understanding and predicting the combined impacts of single and multiple stressors is particularly challenging because observed ecological feedbacks are underpinned by a number of physiological and behavioural responses that reflect stressor type severity and timing Furthermore integration between the traditional domains of physiology and ecology tends to be fragmented and focused towards the effects of a specific stressor or set of circumstances This novel volume summarises the latest research in the physiological and ecological responses of marine species to a comprehensive range of marine stressors including chemical and noise pollution ocean acidification hypoxia UV radiation thermal and salinity stress before providing a perspective on future outcomes for some of the most pressing environmental issues facing society today Stressors in the Marine Environment synthesises the combined expertise of a range of international researchers providing a truly interdisciplinary and accessible summary of the field It is essential reading for graduate students as well as professional researchers in environmental physiology ecology marine biology conservation biology and marine resource management It will also be of particular relevance and use to the regulatory agencies and authorities tasked with managing the marine environment

including social scientists and environmental economists

Nematoda Andreas Schmidt-Rhaesa, 2013-12-18 This section of the Handbook of Zoology is intended as a comprehensive and exhaustive account of the biology of the taxa Gastrotricha Nematoda Nematomorpha Priapulida Kinorhyncha Loricifera Gnathostomulida Micrognathozoa Rotifera Seisonida and Acanthocephala covering all relevant topics such as morphology ecology phylogeny and diversity The series is intended to be a detailed and up to date account of these taxa As was the case with the first edition the Handbook is intended to serve as a reliable resource for decades Many of the taxa of this volume are comparatively unknown to many biologists despite their diversity and importance for example in meiofaunal communities Gastrotricha Rotifera Gnathostomulida their fascinating recent discoveries Loricifera and Micrognathozoa their importance as parasites many nematodes Nematomorpha Acanthocephala and their importance for evolutionary questions e g Priapulida Gastrotricha The groups covered range from those poor in species such as Micrognathozoa with 2 known species to the species rich and diverse Nematoda and their ca 20 000 described species While each taxon is covered by one chapter nematodes are treated in several chapters dedicated to their structural taxonomic and ecological diversity

Ecosystems of California Harold Mooney, Erika Zavaleta, 2016-01-19 This long anticipated reference and sourcebook for California s remarkable ecological abundance provides an integrated assessment of each major ecosystem type its distribution structure function and management A comprehensive synthesis of our knowledge about this biologically diverse state Ecosystems of California covers the state from oceans to mountaintops using multiple lenses past and present flora and fauna aquatic and terrestrial natural and managed Each chapter evaluates natural processes for a specific ecosystem describes drivers of change and discusses how that ecosystem may be altered in the future This book also explores the drivers of California s ecological patterns and the history of the state s various ecosystems outlining how the challenges of climate change and invasive species and opportunities for regulation and stewardship could potentially affect the state s ecosystems The text explicitly incorporates both human impacts and conservation and restoration efforts and shows how ecosystems support human well being Edited by two esteemed ecosystem ecologists and with overviews by leading experts on each ecosystem this definitive work will be indispensable for natural resource management and conservation professionals as well as for undergraduate or graduate students of California s environment and curious naturalists

Recent and Emerging Innovations in Deep-Sea Taxonomy to Enhance Biodiversity Assessment and Conservation Stefanie Kaiser, Magdalena Błażewicz, Kevin M. Kocot, Torben Riehl, Daniel Leduc, Greg W. Rouse, 2022-10-25

The Land/Ocean Interactions in the Coastal Zone of West and Central Africa Salif Diop, Jean-Paul Barousseau, Cyr Descamps, 2014-06-02 Although the main focus of this book is on the estuaries its scope goes well beyond this particular coastal feature Indeed the estuary can only be considered as part of the life cycle of the entire river and the marine area it feeds into an area particularly subject to human and natural pressures The main estuaries and deltas of West and Central Africa region provide a variety of goods and services to its coastal population The most important

of them are related to critical fish habitat wood and charcoal from mangroves as well as space for agriculture aquaculture urban development tourism and transport Particular emphasis has been made in this book on mangroves that play a significant role in terms of flood control groundwater replenishment coastline stabilization and protection against storms They also retain sediments and nutrients purify water and provide critical carbon storage Such hydrological and ecological functions explain the focus on serving mangrove ecosystems and the nearby communities which draw significant income from fishing rice production tourism salt extraction and other activities such as harvesting honey and medicinal plants hence the need for preserving mangrove ecosystems to ensure sustainability of the estuaries and deltas of West and Central Africa region The book has a foreword by Mr Achim Steiner United Nations Under Secretary General and Executive Director of UNEP who is stating that credible and up to date information is essential for the public at large but more specifically for scientists researchers managers decision makers all working together in order to safeguard protect and sustainably manage estuaries deltas and lagoons and the coastal and ocean waters of Western and Central Africa

Governance of Marine Fisheries and Biodiversity Conservation Serge M. Garcia, Jake Rice, Anthony Charles, 2014-07-15 Governance of Marine Fisheries and Biodiversity Conservation explores governance of the world's oceans with a focus on the impacts of two interconnected but historically separate streams of governance one for fisheries the other for biodiversity conservation Chapters most co authored by leading experts from both streams investigate the interaction of these governance streams from ecological economic social and legal perspectives with emphasis on policies institutions processes and outcomes on scales from the global to the local community and with coverage of a range of themes and regions of the world The book opens with chapters setting the historical context for the two marine governance streams and framing the book's exploration of whether as the streams increasingly interact there will be merger or collision convergence or co evolution The concluding chapter synthesizes the insights from throughout the book relative to the questions posed in the opening chapters It also draws conclusions about future needs and directions in the governance of marine fisheries and biodiversity vital to the future of the world's oceans With cutting edge chapters written by many leading international experts in fisheries management and biodiversity conservation and edited by three leading figures in this crucially important subject Governance of Marine Fisheries and Biodiversity Conservation is an essential purchase for fisheries scientists economists resource managers and policymakers and all those working in fields of biodiversity conservation marine ecology and coastal livelihoods Libraries in all universities and research establishments where environmental and or marine studies conservation ocean policy and law biological and life sciences and fisheries management are studied and taught should have copies of this most important book

Environmental Management of Marine Ecosystems Md. Nazrul Islam, Sven Erik Jorgensen, 2018-03-09 Ecosystem Based Management EBM is one of the most holistic approaches to protecting marine and coastal ecosystems as it recognizes the need to protect entire marine ecosystems instead of individual species After decades of pollution habitat degradation and

overfishing now climate change and ocean acidification threaten the health of the ocean in unprecedented way Environmental Management of Marine Ecosystems illustrates the current status trends and effects of climate natural disturbances and anthropogenic impacts on marine ecosystems It demonstrates how to integrate different management tools and models in an up to date multidisciplinary approach to environmental management This indispensable guide provides several case studies from around the world and creates a framework for identifying management tools and their applications in coral reefs fisheries migratory species marine islands and associated ecosystems such as mangroves and sea grass beds It discusses the physical and chemical compositions of marine ecosystems along with the threats and actions needed to protect them The application of model framework to several contemporary management issues include the modelling of harmful algal bloom dynamics understanding the dispersal of sea lice and the possible impacts on intertidal communities of the provision of novel offshore habitat The results of extensive research by an international team of contributors the Environmental Management of Marine Ecosystems is designed to inform scientists practitioners academics government and non government policymakers on the particularities of marine ecosystems and assist them in understanding the EBM approaches in means of mitigation and adaptation of human activities that result in sustainability These practices will help change the current methodologies used for resource assessment and the future regulations of marine resources **Aquatic Parasitology:**

Ecological and Environmental Concepts and Implications of Marine and Freshwater Parasites Nico J. Smit, Bernd Sures, 2025-06-16 This open access volume is the first to provide a comprehensive overview of the ecological and environmental characteristics of marine and freshwater parasites In three clearly organized sections world leading authors present the current state of our knowledge as well as the future trends for their respective fields in aquatic parasitology First the basic life cycle strategies of the various major groups of aquatic parasites are presented including protists myxozoa aquatic fungi helminths and arthropods Subsequent chapters explore the ecological implications of aquatic parasites covering topics such as biodiversity evolution community structures behavior and conservation to name a few In addition important developments in research are presented such as the use of different molecular tools and eDNA in aquatic parasitology The final section is devoted to the new field of environmental parasitology where readers will find contributions on biological markers invasive species and bioindicators of environmental pollution among others Due attention is also given to zoonoses aquaculture and the effects of climate change on aquatic parasites All chapters include original high quality illustrations and never before seen photographs which complement the diverse aspects of aquatic parasitology described Thus this book is a must for every parasitologist and ecologist

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