

DEVELOPMENTS IN HYDROBIOLOGY

# **The Ecology and Etiology of Newly Emerging Marine Diseases**

edited by  
James W. Porter



# Ecology And Etiology Of Newly Emerging Marine Diseases

**Ove Hoegh-Guldberg, Elvira S.  
Poloczanska**



## **Ecology And Etiology Of Newly Emerging Marine Diseases:**

*The Ecology and Etiology of Newly Emerging Marine Diseases* James W. Porter, 2013-04-17 The Ecology and Etiology of Newly Emerging Marine Diseases is a unique contribution to an entirely new field of scientific investigation For the first time material presented in this book identifies patterns and trends in the abundance and distribution of disease phenomena in the marine environment These patterns have gone unrecognised and undetected in the past because the literature in this field is so widely scattered The book is both interdisciplinary and synthetic Studies in this book unequivocally link marine diseases to global climate change The book changes our perspective on the major controls over the population dynamics of marine organisms Papers in this volume clearly identify the intimate connection between public health and environmental health for marine borne diseases such as cholera and human enteroviruses

**The Ecology and Etiology of Newly Emerging Marine Diseases** James W. Porter, 2001

**Coral Health and Disease** Eugene Rosenberg, Yossi Loya, 2013-03-14 Coral reefs are the most spectacular and diverse ecosystems in the marine environment Over the last decades however dramatic declines of coral reef communities have been observed Corals are endangered due to natural and anthropogenic detrimental factors such as global warming and environmental pollution Based on an international meeting on Coral Health and Disease in Eilat Israel in April 2003 the book starts with case studies of reefs e g the Red Sea Caribbean Japan Indian Ocean and the Great Barrier Reef The second part on microbial ecology and physiology describes the symbiotic relations of corals and microbes and the microbial role in nutrition or bleaching resistance of corals Particular coral diseases such as aspergillosis white pox black and white band diseases are treated in the third part Finally various hypotheses of the mechanisms of coral bleaching including a projection of the future of coral reefs are discussed

**Habitats and Biota of the Gulf of Mexico: Before the Deepwater Horizon Oil Spill** C. Herb Ward, 2017-06-26 This book is open access under a CC BY NC 2 5 license The Gulf of Mexico is an open and dynamic marine ecosystem rich in natural resources but heavily impacted by human activities including agricultural industrial commercial and coastal development The Gulf of Mexico has been continuously exposed to petroleum hydrocarbons for millions of years from natural oil and gas seeps on the sea floor and more recently from oil drilling and production activities located in the water near and far from shore Major accidental oil spills in the Gulf are infrequent two of the most significant include the Ixtoc I blowout in the Bay of Campeche in 1979 and the Deepwater Horizon Oil Spill in 2010 Unfortunately baseline assessments of the status of habitats and biota in the Gulf of Mexico before these spills either were not available or the data had not been systematically compiled in a way that would help scientists assess the potential short term and long term effects of such events This 2 volume series compiles and summarizes thousands of data sets showing the status of habitats and biota in the Gulf of Mexico before the Deepwater Horizon Oil Spill Volume 2 covers historical data on commercial and recreational fisheries with an analysis of marketing trends and drivers ecology populations and risks to birds sea turtles and marine mammals in the Gulf and diseases and mortalities of fish and other

animals that inhabit the Gulf of Mexico      *The Caribbean Coral Reef* William K. Sacco, 2023-04-28 This book is a visual tour of Caribbean coral reefs between 1968 and 1978 They are the world's second largest coral reef community and the most threatened The Caribbean Coral Reef A Record of an Ecosystem Under Threat offers a priceless historical record made by a photographer who set out to document the major reef species when those reefs were at their prime Today coral reefs are under threat as never before and sadly most of what is shown in the book's photographs is now gone forever It is only by comparing the images in this book with what we see now that we are able to fully recognize what we have lost With its stunning photography and precise accurate scientific information this book offers students of coral reefs a wealth of information about this rich fragile ecosystem It is also written accessibly for non academic visitors to the Caribbean reef or anyone interested in the earth's creatures Many of the invertebrates will be unfamiliar to most people and the author reveals fascinating insights into these otherworldly creatures and their lifestyles Enjoy this field guide to the reefs that were and savor the beauty of this vanishing environment and its organisms      *Coral Reef Studies of Japan* Akira Iguchi, Chuki Hongo, 2018-02-15 This book comprehensively introduces recent important studies on coral reefs from various research fields including biology ecology chemistry the earth sciences and conservation studies Coral reef is one of the important ecosystems characterized by high biodiversity and the beauty Coral reefs around Japan are located at the northern limit composed by mainly fringing reefs along archipelago and easily impacted by human activities Thus coral reef studies around Japan have provided important knowledge on basic sciences and conservation studies regarding coral reef ecosystem This book would contribute to systematic understanding of vulnerable coral reef ecosystems due to human activities in the Indo Pacific and Caribbean regions The conservation efforts provide good reference to graduate and undergraduate students and researchers in marine sciences as well as those who are involved in coral reef studies      **Policy and Practice in Climate Change and Biodiversity Conservation** Asha Ramachandran, 2024-12-11 Climate change and biodiversity decline are the major challenges humankind is now facing with profound consequences for people and the ecosystems Continuous policy crafting is a prerequisite in mitigating climate change maladies as the world is witnessing an unprecedented eruption of climate induced catastrophes including heat waves hurricanes unseasonal rain and diseases spurred by climate change and globalization This book gives a bird's eye view of climate change biodiversity conservation and practical policy imperatives for mitigating inauspicious climate impacts in a globalized digital era The briefing looks at the relationships and describes policies that promote the interconnectedness of biodiversity and climate action which is essential for effective environmental stewardship This also conveys how improperly resolving one problem can make it harder to improve another The book is useful for academics policy makers scholars researchers health professionals and people involved in climate change research and mitigation strategies      Oceans and Human Health Lora Fleming, Lota B. Alcantara Creencia, William H. Gerwick, Hong Ching Goh, Matthew O. Gribble, Bruce Maycock, Helena Solo-Gabriele, 2023-07-14 Oceans and Human Health Opportunities

and Impacts Second Edition explores the inextricably interconnected and complex relationship between oceans and humans Through the lens of the expanding oceans and human health meta discipline this work examines the many invaluable ecosystem services offered by oceans as well as the global anthropogenic impacts and explores the associated risks and benefits to human health Written and edited by an interdisciplinary team of experts the book features international perspectives on the resources available to address these benefits and risks including enhanced research policy and community engagement The book concludes by examining the future of ocean stewardship and how global populations can unite to nurture and promote our life enhancing relationship with oceans This is an indispensable resource for students researchers communities and industry specialists in marine sciences public health and international policy Addresses benefits opportunities risks and impacts resulting from the relationship between oceans and humans informed by more than 100 international authors Identifies and links necessary tools to relevant disciplines for action and provides illustrative international case studies Covers scientific socioeconomic political and ethical analyses behind the latest ocean and human health research Provides study questions and horizon scans at the end of each chapter to encourage individual thought and action offering a resource for course instructors students and communities

**Coral Reefs of the USA** Bernhard M. Riegl, Richard E. Dodge, 2008-03-21 Coral Reefs of the USA provides a complete overview of the present status of knowledge regarding all coral reef areas within the USA and its territories It is written by the most experienced authorities in their fields and geographic areas Stretching from the Caribbean to the western Pacific the coral reefs of the USA span extensive geographic and biotic diversity occur in a wide variety of geomorphological settings and provide a representative cross section of Holocene reef building This book will therefore be of broad general interest For the first time complete scholarly reviews are given for the geology geomorphology and the biology of reefs encompassing a vast area stretching from the Mariana Islands in the west Samoa in the south Hawaii in the north and the Virgin Islands in the east This book is not a status report but will provide up to date information about stressors and the biotic responses of the reefs as well as the geological explanations why these reefs exist in the first place It will be an invaluable baseline reference for all those who are engaged in research or management of these coral reefs or to those who simply enjoy being well informed about one of the most iconic ecosystems of the USA

*Corals in a Changing World* Carmenza Duque, Edison Tello Camacho, 2018-03-28 Corals comprise a wide variety of colonial marine invertebrates belonging to the Phylum Cnidaria Their polyps form the most colorful complete and diverse communities on the Earth resembling underwater cities commonly called coral reefs which host a wide variety of invertebrates and fish species They are highly productive ecosystems contribute to the health of the biosphere and offer a good number of economic and ecological services to coastal populations and to many people around the world However due to a diverse number of natural and anthropogenic stressors corals have shown a severe decline over the past few decades Being aware of the importance and relevance of the facts described the book *Corals in a Changing World*

offers new scientific information regarding the actual status and in some cases the resilience state of coral reef systems. Timely information is critical for managers and decision makers to implement sustainable management measures according to the ecological condition of coral reefs. In addition, the book also discusses the use of well-maintained coral microcosms to provide a good basis for performing experiments with natural fluctuations and to present studies dedicated to the coral diversity characterization and to their importance as a source of important biological compounds which could be converted into industrial products.

#### **Assessments and Conservation of Biological Diversity from Coral Reefs to the Deep Sea**

Jose Victor Lopez, 2023-11-30. *Assessments and Conservation of Biological Diversity from Coral Reefs to the Deep Sea: Uncovering Buried Treasures and the Value of the Benthos* examines marine benthic habitats around the world that are linked by their physical location at the bottom of the oceans. The book approaches deep-sea marine biodiversity with perspectives on genetics, microbiology, and evolution, weaving a narrative of vital expert linkages with the goal of protecting something that most people cannot witness or experience. It provides a full assessment of biological diversity within benthic habitats from coral reefs to plankton and fish species and offers global case studies. It is the ideal resource for marine conservationists and biologists aiming to expand their knowledge and efforts to the rarely seen yet equally important realms of the ocean and respective benthic species. As these deep-sea ecosystems and their species face unprecedented threats of destruction and extinction due to factors including climate change, this book provides the most current knowledge of this undersea world along with solutions for its conservation. Compares and contrasts between shallow and marine habitats to reveal revolutionary connections and continuity. Analyzes modern threats and gaps in biological knowledge regarding benthic communities. Examines benthic biodiversity through vertical vs. horizontal gradients. Poses possible solutions for the conservation of benthic habitats and organisms.

#### **Microbiomes and the Global Climate Change**

Showkat Ahmad Lone, Abdul Malik, 2021-07-02. This book covers the contemporary environmental issues faced by life on the planet and the role planetary microbiomes play in such issues. Providing insights on the net favorable and adverse effect of microbial processes, this volume covers both the spontaneous and anthropocentric events that impact climate change and life on the planet. The book describes the ecological significance of microbiomes associated with the kingdoms Plantae and Animalia with respect to climate change, natural and anthropogenic causes of climate change, microbial interactions in nature, planetary microbiomes, and food security. Climate change in relation to disease epidemiology and human health and engineering microorganisms to mitigate the consequences of climate change. The individual chapters in the intended book provide both theoretical and practical exposure to the current issues and future challenges of climate change in relation to the microbiomes. This collection should serve as ready reference to the researchers working in the area to reshape their future research in addressing the challenges of global climate change.

#### *Impacts of Climate Change on Human Health in*

*the United States*. US Global Change Research Program, 2018-02-06. As global climate change proliferates, so too do the health

risks associated with the changing world around us Called for in the President s Climate Action Plan and put together by experts from eight different Federal agencies The Impacts of Climate Change on Human Health A Scientific Assessment is a comprehensive report on these evolving health risks including Temperature related death and illness Air quality deterioration Impacts of extreme events on human health Vector borne diseases Climate impacts on water related Illness Food safety nutrition and distribution Mental health and well being This report summarizes scientific data in a concise and accessible fashion for the general public providing executive summaries key takeaways and full color diagrams and charts Learn what health risks face you and your family as a result of global climate change and start preparing now with The Impacts of Climate Change on Human Health *Effects of Climate Change Across Ocean Regions* Ove Hoegh-Guldberg,Elvira S. Poloczanska,2018-07-05 The IPCC Fifth Assessment Report AR5 highlighted that conditions within Earth s ocean are changing more rapidly than any of the time during the past 65 million years and as a consequence major changes are occurring in natural and human systems While this major report as enhanced our understanding of the complexity of ocean issues we propose this research topic as an opportunity to expand discussion on past present and future changes across oceans regions *Coastal Ecosystems* Sughosh Madhav,Sadaf Nazneen,Pardeep Singh,2021-12-03 This volume incorporates theoretical and practical knowledge through case studies and reviews to serve as a baseline of information for coastal ecosystem research and discusses the impacts of pollution industrialisation agriculture and climate change on coastal ecosystem biogeochemistry and biodiversity The case studies address the role of coastal ecosystems as a carbon sink which is getting impacted by anthropogenic disturbances Through this analysis the book covers various strategies for the conservation and management of coastal ecosystems considering their unique ecological and biogeochemical attributes and region specific threats and impacts The book will be of interest to a wide range of readers including students researchers and professionals in coastal ecosystem science coastal pollution climate change adaptation biodiversity conservation and environmental management **Agriculture under Climate Change: Threats, Strategies and Policies** V.V. Belavadi,N. Nataraja Karaba,N.R. Gangadharappa,2017-02-13 Agriculture continues to be an important sector fuelling economic growth Rapidly changing climate is already affecting the production of food and feed industrial crops livestock and seafood In developing countries like India agriculture and allied sectors contribute significantly to the gross domestic product Therefore evolving strategies to sustain a stable growth of the farming sector is essential for feeding a growing population and poverty alleviation in the face of global climate change It is crucial to carry out a comprehensive analysis of different aspects of climate change to effectively combat its negative impacts on food production systems and landscapes and reap its potential benefits in agricultural production Research findings and recommendations on topics as diverse as climate change impacts genetic enhancement of crops options for adaptation to climate change opportunities and challenges for sustainable food production systems have been compiled in this volume Capacity building for climate resilient agriculture and agriculture

policy and planning is equally important to face future challenges This book makes a compelling effort to address these major issues arising from climate change from an Indian perspective The important and often conflicting issues in climate change impacts adaptations and mitigations strategies are brought in to focus and a critical summary of the state of art in climate smart agriculture is presented for teachers researchers and policy makers engaged with climate change and agriculture in the tropical arid and semi arid regions of Asia and Africa

*Climate Change Impacts on Fisheries and Aquaculture, 2 Volumes* Bruce F. Phillips,Mónica Pérez-Ramírez,2017-11-13 The first comprehensive review of the current and future effects of climate change on the world s fisheries and aquaculture operations The first book of its kind Climate Change Impacts on Fisheries and Aquaculture explores the impacts of climate change on global fisheries resources and on marine aquaculture It also offers expert suggestions on possible adaptations to reduce those impacts The world s climate is changing more rapidly than scientists had envisioned just a few years ago and the potential impact of climate change on world food production is quite alarming Nowhere is the sense of alarm more keenly felt than among those who study the warming of the world s oceans Evidence of the dire effects of climate change on fisheries and fish farming has now mounted to such an extent that the need for a book such as this has become urgent A landmark publication devoted exclusively to how climate change is affecting and is likely to affect commercially vital fisheries and aquaculture operations globally Climate Change Impacts on Fisheries and Aquaculture provides scientists and fishery managers with a summary of and reference point for information on the subject which has been gathered thus far Covers an array of critical topics and assesses reviews of climate change impacts on fisheries and aquaculture from many countries including Japan Mexico South Africa Australia Chile US UK New Zealand Pacific Islands India and others Features chapters on the effects of climate change on pelagic species cod lobsters plankton macroalgae seagrasses and coral reefs Reviews the spread of diseases economic and social impacts marine aquaculture and adaptation in aquaculture under climate change Includes special reports on the Antarctic Ocean the Caribbean Sea the Arctic Ocean and the Mediterranean Sea Extensive references throughout the book make this volume both a comprehensive text for general study and a reference guide to further research for fisheries scientists fisheries managers aquaculture personnel climate change specialists aquatic invertebrate and vertebrate biologists physiologists marine biologists economists environmentalist biologists and planners

**Wetland Chemistry** Mohammad Shahid,Mohd Yusuf,Raj Singh,2025-04-15 This book offers an in depth examination of wetland ecosystems delving into their intricacies from three critical perspectives limnological bio geochemical and economic It takes an interdisciplinary approach seamlessly merging insights from limnology and bio geochemistry to provide readers with a comprehensive understanding of the complex interactions between organisms and chemical processes in wetlands It notably emphasizes the economic significance of wetlands advocating for sustainable practices to preserve their value This aspect makes the book a valuable resource for policymakers stakeholders and professionals involved in wetland conservation It addresses contemporary issues like nutrient



cycling pollutant dynamics and the role of wetlands in climate regulation by incorporating the latest research and case studies in the field The book will equip readers with up to date insights into the challenges and opportunities surrounding wetland ecosystems

Coral Reef Resilience in the Anthropocene Peter W. Glynn, 2025-07-21 This book chronicles six decades of exploration and ecological studies of Western American coral reefs a vibrant and diverse ecosystem in a marginal tropical Pacific region that has long been overlooked It begins with the discovery of pristine coral reefs in Panama in the 1960s follows the impact of stressful El Niño warming events that caused widespread coral bleaching and mortality in the 1980s 1990s documents coral recovery in the late 1990s and early 2000s and addresses the recent resurgence 2023 24 of extreme El Niño events leading to renewed coral mortality and setbacks in reef recovery The book delves into the challenges posed by the physical environment including recurring ENSO activity and increasing ocean acidification and examines key ecological research topics such as coral reproduction predation bioerosion symbioses and biodiversity It also highlights recent molecular genetic advancement in understanding coral endosymbionts species identification and phylogenetic relationships Along the way personal anecdotes from the eastern Pacific coral research team ranging from exhilarating to amusing frightening and occasionally embarrassing are shared throughout this scientific journey This narrative offers a glimpse into the community composition of species and their interactions before severe bleaching and widespread coral mortality information that is necessary to help guide restoration work Sketches of coral reef animal associates by Peter W Glynn and the late Charles Messing add an artistic dimension highlighting the ecological roles of various species within the reef ecosystem Many students have made significant contributions to the understanding and conservation of eastern Pacific coral reefs with several going on to pursue careers in academia research and restoration emerging as the next generation of reef scientists The book concludes with a cautiously optimistic hope that humanity will shift away from reliance on fossil fuels and that Generation Z and their future students will discover ways to restore coral reefs for future generations

*In the Front Line* Sue Wells, Corinna Ravilious, 2006 The tragic and devastating consequences of the Asian tsunami December 2004 and the hurricanes and cyclones of 2005 were a wake up call for the global community dramatically drawing attention to the dangers of undermining the services that coastal ecosystems provide to humankind This report has gathered lessons that have been learned since these events that will be relevant to future management of the coasts in the context of severe weather events and other potential consequences of global warming The publication aims to help decision and policy makers around the world understand the importance of coastal habitats to humans focusing on the role of coral reefs and mangroves As well as coastal protection it also addresses the huge range of other benefits provided by these ecosystems and the role that they can play in coastal development and in restoring livelihoods for those suffering from the effects of extreme events

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