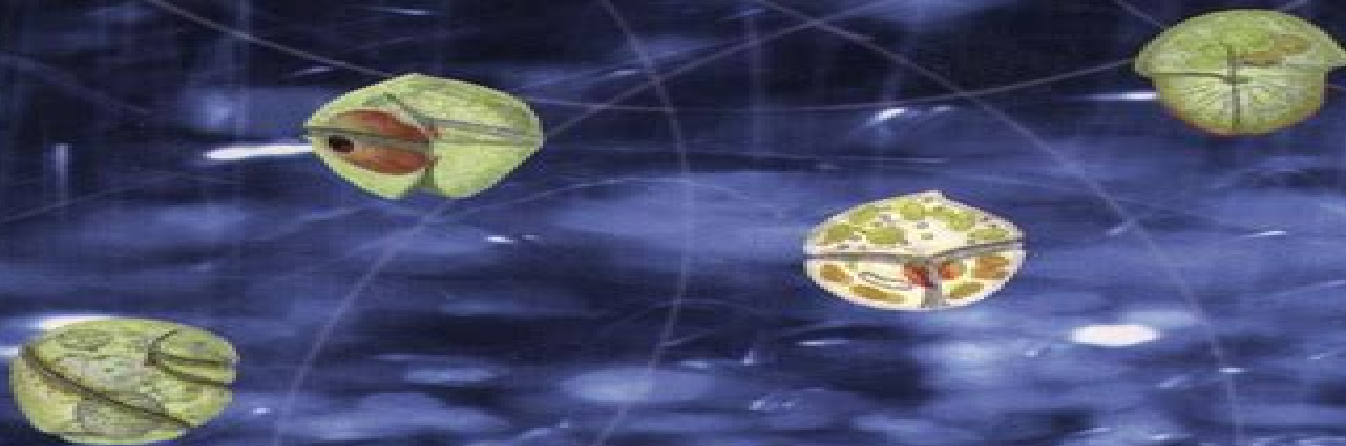


# FROM MONSOONS TO MICROBES



**Understanding the Ocean's Role  
in Human Health**



NATIONAL RESEARCH COUNCIL

# From Monsoons To Microbes Understanding The Oceans Role In Human Health

**Lora Fleming, Lota B. Alcantara  
Creencia, William H. Gerwick, Hong  
Ching Goh, Matthew O. Gribble, Bruce  
Maycock, Helena Solo-Gabriele**

## **From Monsoons To Microbes Understanding The Oceans Role In Human Health:**

*Official Gazette of the United States Patent and Trademark Office*, 1993      **From Monsoons to Microbes** Committee on the Ocean's Role in Human Health, National Research Council, 1999-05-19 What can sharks teach us about our immune system What can horseshoe crabs show us about eyesight The more we learn about the ocean the more we realize how critical these vast bodies of water are to our health and well being Sometimes the ocean helps us as when a marine organism yields a new medical treatment At other times the ocean poses the threat of coastal storm surges or toxic algal blooms From Monsoons to Microbes offers a deeper look into the oceans that surround us often nurturing yet sometimes harming humankind This book explores the links among physical oceanography public health epidemiology marine biology and medicine in understanding what the ocean has to offer It will help readers grasp such important points as How the ocean s sweeping physical processes create long term phenomena such as El Nino and short term disastrous events such as tsunamis including what communities can do to prepare What medicines and nutritional products have come from the ocean and what the prospects are for more such discoveries How estuaries work where salt and fresh water meet and what can go wrong as in the 7 000 square mile dead zone at the out flow of the Mississippi River How the growing demand for seafood and the expansion of ocean going transport has increased our exposure to infectious agents and how these agents can be tracked down and fought Why red tides of toxic algae suddenly appear in previously unaffected coastal areas and what happens when algal toxins find their way into our food supply or the air we breathe The book recommends ways we can implement exciting new technologies to monitor the physics chemistry and biology of the ocean to recognize change as it happens From the impact of worldwide atmospheric warming to the significance of exotic bacteria from submarine hydrothermal vents the ocean has many depths left to explore      Oceans and Human Health Patrick J. Walsh, Sharon Smith, Lora Fleming, Helena Solo-Gabriele, William H. Gerwick, 2011-09-02 Oceans and Human Health highlights an unprecedented collaboration of environmental scientists ecologists and physicians working together on this important new discipline to the benefit of human health and ocean environmental integrity alike Oceanography toxicology natural products chemistry environmental microbiology comparative animal physiology epidemiology and public health are all long established areas of research in their own right and all contribute data and expertise to an integrated understanding of the ways in which ocean biology and chemistry affect human health for better or worse This book introduces this topic to researchers and advanced students interested in this emerging field enabling them to see how their research fits into the broader interactions between the aquatic environment and human health Color illustrations of aquatic life and oceanic phenomena such as hurricanes and algal blooms Numerous case studies Socio economic and Ethical Analyses place the science in a broader context Study questions for each chapter to assist students and instructors Risks and remedies sections to help define course modules for instruction      **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 Oceans and Human Health Robert E. Bowen,Michael H. Depledge,Cinnamon P. Carlarne,Lora E. Fleming,2014-04-03 Human health and well being are tied to the vitality of the global ocean and coastal systems on which so many live and rely We engage with these extraordinary environments to enhance both our health and our well being But we need to recognize that introducing contaminants and otherwise altering these ocean systems can harm human health and well being in significant and substantial ways These are complex challenging and critically important themes How the human relationship to the oceans evolves in coming decades may be one of the most important connections in understanding our personal and social well being Yet our understanding of this relationship is far too limited This remarkable volume brings experts from diverse disciplines and builds a workable understanding of breadth and depth of the processes both social and environmental that will help us to limit future costs and enhance the benefits of sustainable marine systems In particular the authors have developed a shared view that the global coastal environment is under threat through intensified natural resource utilization as well as changes to global climate and other environmental systems All these changes contribute individually but more importantly cumulatively to higher risks for public health and to the global burden of disease This pioneering book will be of value to advanced undergraduate and postgraduate students taking courses in public health environmental economic and policy fields Additionally the treatment of these complex systems is of essential value to the policy community responsible for these questions and to the broader audience for whom these issues are more directly connected to their own health and well being The seas across this planet and their effects on human society and its destiny are a fascinating subject for analysis and insights derived from intellectual

inquiry This diverse and complex subject necessarily requires a blending of knowledge from different disciplines which the authors of this volume have achieved with remarkable success The following pages in this volume are written in a lucid and very readable style and provide a wealth of knowledge and insightful analysis which is a rare amalgam of multi disciplinary perspectives and unique lines of intellectual inquiry It is valuable to get a volume such as this which appeals as much to a non specialist reader as it does to those who are specialists in the diverse but interconnected subjects covered in this volume From the Foreword written by R K Pachauri Director General TERI and Chairman IPCC

A Review of the Ocean Research Priorities Plan and Implementation Strategy National Research Council, Division on Earth and Life Studies, Ocean Studies Board, Committee to Review the Joint Subcommittee on Ocean Science and Technology's Research Priorities Plan, 2007-09-25 Ocean research offers countless benefits from improving fisheries management to discovering new drugs to enabling early detection of tsunamis and hurricanes At the request of the Joint Subcommittee on Ocean Science and Technology JSOST the National Research Council convened a committee to review the draft and final versions of the Ocean Research Priorities Plan and Implementation Strategy described in Charting the Course for Ocean Science in the United States Research Priorities for the Next Decade which represents the first coordinated national ocean research planning effort involving all federal agencies that support ocean science The plan presents an ambitious vision for ocean research that will be of great benefit to the ocean sciences community and the nation This book contains both sets of findings i e the committee's review of the JSOST's draft plan A Review of the Draft Ocean Research Priorities Plan Charting the Course for Ocean Science in the United States and the review of the final plan This book recommends that JSOST employ a variety of outreach mechanisms to continue to engage nonfederal partners in ocean research planning efforts such as establishing external committees to provide scientific and technical advice and to review progress on implementation of the research plan

*Global Health* Kevin McCracken, David R. Phillips, 2017-07-14 Global Health continues to provide readers with a comprehensive up to date and thought provoking outline and understanding of the constantly evolving global health landscape In this new edition the authors have maintained the successful structure and organisation of the previous edition to examine and explain recent health changes and consider likely future patterns New or expanded topics covered include emerging and re emerging infectious disease threats increasing awareness of and interest in antimicrobial resistance and superbugs terrorism global conflict and health the new UN 2030 Agenda for Sustainable Development the drive for Universal Health Coverage UHC the use of information technology in global health substance abuse palliative and end of life care ethical issues in global health Using clear and original explanations of complex issues this text makes extensive use of boxed case studies and international examples with discussion questions posed for readers at the end of each chapter Readers will also be able to take advantage of the new website that was designed to complement this book Global Health is essential reading for students and researchers of global health public health and development studies

**Ocean Acidification** National Research

Council, Division on Earth and Life Studies, Ocean Studies Board, Committee on the Development of an Integrated Science Strategy for Ocean Acidification Monitoring, 2010-10-14 The ocean has absorbed a significant portion of all human made carbon dioxide emissions This benefits human society by moderating the rate of climate change but also causes unprecedented changes to ocean chemistry Carbon dioxide taken up by the ocean decreases the pH of the water and leads to a suite of chemical changes collectively known as ocean acidification The long term consequences of ocean acidification are not known but are expected to result in changes to many ecosystems and the services they provide to society Ocean Acidification A National Strategy to Meet the Challenges of a Changing Ocean reviews the current state of knowledge explores gaps in understanding and identifies several key findings Like climate change ocean acidification is a growing global problem that will intensify with continued CO<sub>2</sub> emissions and has the potential to change marine ecosystems and affect benefits to society The federal government has taken positive initial steps by developing a national ocean acidification program but more information is needed to fully understand and address the threat that ocean acidification may pose to marine ecosystems and the services they provide In addition a global observation network of chemical and biological sensors is needed to monitor changes in ocean conditions attributable to acidification

**Departments of Veterans Affairs and Housing and Urban Development, and Independent Agencies Appropriations Bill, 2001** , Departments of Veterans Affairs and Housing and Urban Development, and Independent Agencies Appropriations Bill, 2001 United States. Congress. House. Committee on Appropriations, 2000

**A History of the Federal Biological Laboratory at Beaufort, North Carolina 1899-1999** Douglas Arthur Wolfe, 2000

*BIO2010* National Research Council, Division on Earth and Life Studies, Board on Life Sciences, Committee on Undergraduate Biology Education to Prepare Research Scientists for the 21st Century, 2003-02-13 Biological sciences have been revolutionized not only in the way research is conducted with the introduction of techniques such as recombinant DNA and digital technology but also in how research findings are communicated among professionals and to the public Yet the undergraduate programs that train biology researchers remain much the same as they were before these fundamental changes came on the scene This new volume provides a blueprint for bringing undergraduate biology education up to the speed of today's research fast track It includes recommendations for teaching the next generation of life science investigators through Building a strong interdisciplinary curriculum that includes physical science information technology and mathematics Eliminating the administrative and financial barriers to cross departmental collaboration Evaluating the impact of medical college admissions testing on undergraduate biology education Creating early opportunities for independent research Designing meaningful laboratory experiences into the curriculum The committee presents a dozen brief case studies of exemplary programs at leading institutions and lists many resources for biology educators This volume will be important to biology faculty administrators practitioners professional societies research and education funders and the biotechnology industry

Transforming Remote Sensing Data into Information and

Applications National Research Council, Division on Earth and Life Studies, Ocean Studies Board, Division on Engineering and Physical Sciences, Space Studies Board, Steering Committee on Space Applications and Commercialization, 2001-12-26 Over the past decade renewed interest in practical applications of Earth observations from space has coincided with and been fueled by significant improvements in the availability of remote sensing data and in their spectral and spatial resolution In addition advances in complementary spatial data technologies such as geographic information systems and the Global Positioning System have permitted more varied uses of the data During the same period the institutions that produce remote sensing data have also become more diversified In the United States satellite remote sensing was until recently dominated largely by federal agencies and their private sector contractors However private firms are increasingly playing a more prominent role even a leadership role in providing satellite remote sensing data through either public private partnerships or the establishment of commercial entities that serve both government and private sector Earth observation needs In addition a large number of private sector value adding firms have been established to work with end users of the data These changes some technological some institutional and some financial have implications for new and continuing uses of remote sensing data To gather data for exploring the importance of these changes and their significance for a variety of issues related to the use of remote sensing data the Space Studies Board initiated a series of three workshops The first Moving Remote Sensing from Research to Applications Case Studies of the Knowledge Transfer Process was held in May 2000 This report draws on data and information obtained in the workshop planning meeting with agency sponsors information presented by workshop speakers and in splinter group discussions and the expertise and viewpoints of the authoring Steering Committee on Space Applications and Commercialization The recommendations are the consensus of the steering committee and not necessarily of the workshop participants

**Strategic Plan for the U.S. Climate Change Science Program** Climate Change Science Program (U.S.), 2003

**Law, Technology and Science for Oceans in Globalisation** Davor Vidas, 2010-03-22 Thirty four experts on marine affairs and the law of the sea from six continents examine the emerging challenges for our World Ocean The accumulating consequences of human activities on the seas indicate that the Earth may already have entered a new epoch the Anthropocene dominated by the human impact This volume analyses developments in the interface of law technology and science in some central law of the sea issue areas These are explored systematically in sections on the World Ocean in the Anthropocene epoch Part I combating illegal unreported and unregulated fishing Part II combating illegal oil spills from ships Part III marine genetic resources and bioprospecting Part IV and the continental shelf beyond 200 nautical miles from the baselines Part V

**Deep-sea Biodiversity and Ecosystems** Sybille van den Hove, Vincent Moreau, 2007 The objective of this report is to provide an overview of the key socio economic management and governance issues relating to the conservation and sustainable use of deep sea ecosystems and biodiversity The report highlights our current understanding of these issues and identifies topics and areas that need further investigation to close gaps in knowledge It

also explores the needs and means for interfacing research with policy with a view to contributing to the political processes regarding deep sea and high seas governance which are currently ongoing in various international fora within and outside the UN system. In addition, the report provides guidance on the future direction and focus of research on environmental socio-economic and governance aspects in relation to the deep sea.

**Increasing Capacity for Stewardship of Oceans and Coasts** National Research Council, Division on Earth and Life Studies, Ocean Studies Board, Committee on International Capacity-Building for the Protection and Sustainable Use of Oceans and Coasts, 2008-03-04. Marine environments support the livelihoods, economies, and quality of life for communities around the world. But growth of coastal populations and increasing demands on marine resources are putting the future of ocean and coastal resources at risk through impacts such as overfishing, wetland drainage, climate change, and pollution of coastal waters. Given these demands, it is vital to build capacity for the people, the institutions, and the technology and tools needed to manage ocean resources. Unfortunately, many capacity building efforts focus on specific projects rather than on capacity building as a goal unto itself, resulting in activities that are not funded or sustained past the typically short project lifetime. This book finds that the most successful capacity building efforts meet the needs of a specific locale or region based on periodic assessments and include plans to maintain and expand capacity after the project ends. The report recommends ways that governments and organizations can help strengthen marine protection and management capacity, including conducting periodic program assessments, making plans to sustain funding, and developing leadership and political will. The book was produced at the request of the Gordon and Betty Moore Foundation, the President's Circle of the National Academies, the David and Lucile Packard Foundation, the National Oceanic and Atmospheric Administration, the National Science Foundation, the Marisla Foundation, and the Curtis and Edith Munson Foundation.

**The Science of Regional and Global Change** National Research Council, Policy and Global Affairs, Policy Division, Committee on Global Change Research, 2000-02-19. This report is intended to promote a dialogue between the scientific community and the government officials who will lead our nation in the coming years on global change research. The first section of the report is a brief description of the challenges and proposed responses needed from the highest levels of the government, and the second provides more detailed discussion and is directed to agency level issues and responses. The last section is a detailed bibliography that lists many of the specific reports on which the views outlined here are ultimately based.

**Environmental Health Perspectives**, 2004.

**Life on Earth** Niles Eldredge, 2002-12-17. An examination of nature's extraordinary biological diversity and the human activities that threaten it. *Life on Earth: An Encyclopedia of Biodiversity*. Ecology and Evolution tackles the critical issue for humanity in the 21st century: our ever more menacing impact on the environment. This two-volume illustrated set, edited by American Museum of Natural History curator Niles Eldredge, begins with biodiversity: the complex planetary web of life that has emerged through three billion years of evolution. How does it work? And why is its continued health critical to the planet and to ourselves? More than 50 top scholars examine every form of



life from amoebae to elephants from plankton to whales But *Life on Earth* is more than a catalog of species An A Z survey explores the myriad ways humanity is diminishing that biodiversity from industrialization to natural habitat destruction from overpopulation in the developing world to an unsustainable consumer lifestyle in the West *Life on Earth* is the essential reference work for anyone curious about our planet s extraordinary diversity of life and the unprecedented threats it faces

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