

Atlantis modeling
framework

Atlantis model for the Northern Gulf of California

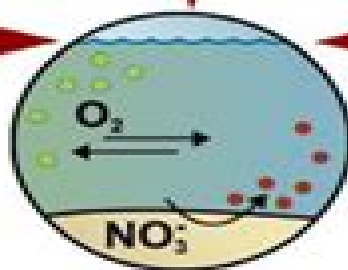
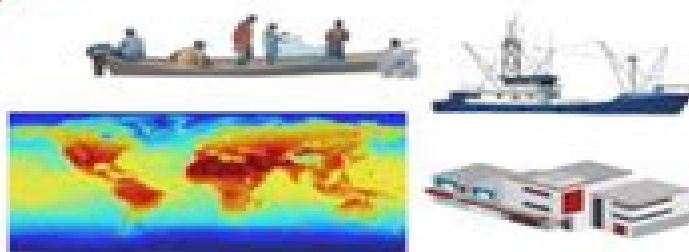


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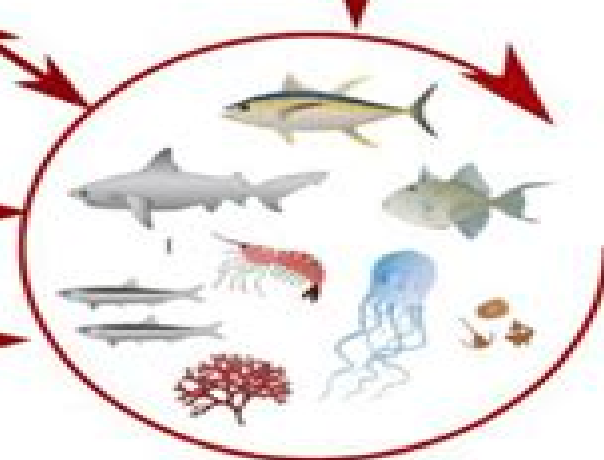
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An Atlantis Ecosystem Model For The Gulf Of Mexico

**Steven A. Murawski, Cameron H.
Ainsworth, Sherryl Gilbert, David J.
Hollander, Claire B. Paris, Michael
Schlüter, Dana L. Wetzel**

An Atlantis Ecosystem Model For The Gulf Of Mexico:

An Atlantis Ecosystem Model for the Gulf of Mexico Supporting Integrated Ecosystem Assessment Cameron H. Ainsworth, Michael Jerome Schirripa, Hem Nalini Morzaria-Luna, 2015 The Gulf of Mexico supports a high biological diversity and biomass of fish seabirds and mammals in this region multiple commercial and recreational fishing fleets operate providing economic resources for local populations The Gulf is also the site of important oil and gas production and tourism As a result of intensive human use the Gulf is subject to various impacts including oil spills habitat degradation and anoxia Management of this Large Marine Ecosystem requires an ecosystem based management approach that provides a holistic approach to resource management The Gulf of Mexico is managed as part of NOAA s Integrated Ecosystem Assessment Program IEA This program considers the development of ecosystem models as a tool for ecosystem based fisheries management EBFM and to support the different stages in the IEA process particularly testing the effects of alternative management scenarios As part of this program we have parametrized an Atlantis ecosystem model for the Gulf of Mexico including major functional groups physiographic dynamics and fishing fleets The Gulf of Mexico GOM Atlantis model represents a collaboration between the University of South Florida the University of Miami the Southeast Fisheries Science Center the National Coastal Data Development Center and other contributors Executive summary Using Ecological Models to Support and Shape Environmental Policy Decisions Chiara Piroddi, Diego Macias, Marilaure Gregoire, Johanna Jacomina Heymans, Howard Townsend, 2022-02-10 *Effective Monitoring to Evaluate Ecological Restoration in the Gulf of Mexico* National Academies of Sciences, Engineering, and Medicine, Division on Earth and Life Studies, Water Science and Technology Board, Ocean Studies Board, Committee on Effective Approaches for Monitoring and Assessing Gulf of Mexico Restoration Activities, 2017-03-16 Gulf Coast communities and natural resources suffered extensive direct and indirect damage as a result of the largest accidental oil spill in US history referred to as the Deepwater Horizon DWH oil spill Notably natural resources affected by this major spill include wetlands coastal beaches and barrier islands coastal and marine wildlife seagrass beds oyster reefs commercial fisheries deep benthos and coral reefs among other habitats and species Losses include an estimated 20% reduction in commercial fishery landings across the Gulf of Mexico and damage to as much as 1 100 linear miles of coastal salt marsh wetlands This historic spill is being followed by a restoration effort unparalleled in complexity and magnitude in U S history Legal settlements in the wake of DWH led to the establishment of a set of programs tasked with administering and supporting DWH related restoration in the Gulf of Mexico In order to ensure that restoration goals are met and money is well spent restoration monitoring and evaluation should be an integral part of those programs However evaluations of past restoration efforts have shown that monitoring is often inadequate or even absent *Effective Monitoring to Evaluate Ecological Restoration in the Gulf of Mexico* identifies best practices for monitoring and evaluating restoration activities to improve the performance of restoration programs and increase the effectiveness and longevity of

restoration projects This report provides general guidance for restoration monitoring assessment and synthesis that can be applied to most ecological restoration supported by these major programs given their similarities in restoration goals It also offers specific guidance for a subset of habitats and taxa to be restored in the Gulf including oyster reefs tidal wetlands and seagrass habitats as well as a variety of birds sea turtles and marine mammals

Scenarios and Responses to Future Deep Oil Spills Steven A. Murawski, Cameron H. Ainsworth, Sherryl Gilbert, David J. Hollander, Claire B. Paris, Michael Schlüter, Dana L. Wetzel, 2019-07-04 It has often been said that generals prepare for the next war by re fighting the last The Deepwater Horizon DWH oil spill was unlike any previous an underwater well blowout 1 500 meters deep Much has been learned in the wake of DWH and these lessons should in turn be applied to both similar oil spill scenarios and those arising from frontier explorations by the marine oil industry The next deep oil well blowout may be at 3 000 meters or even deeper This volume summarizes regional Gulf of Mexico and global megatrends in marine oil exploration and production Research in a number of key areas including the behavior of oil and gas under extreme pressure impacts on biological resources of the deep sea and the fate of oil and gas released in spills is synthesized A number of deep oil spills are simulated with detailed computer models and the likely effects of the spills and potential mitigation measures used to combat them are compared Recommended changes in policies governing marine oil exploration and development are proposed as well as additional research to close critical and emerging knowledge gaps This volume synthesizes state of the art research in deep oil spill behavior and response It is thus relevant for government and industry oil spill responders policy formulators and implementers and academics and students desiring an in depth and balanced overview of key issues and uncertainties surrounding the quest for deep oil and potential impacts on the environment

Deep Oil Spills Steven A. Murawski, Cameron H. Ainsworth, Sherryl Gilbert, David J. Hollander, Claire B. Paris, Michael Schlüter, Dana L. Wetzel, 2019-06-29 The demand for oil and gas has brought exploration and production to unprecedented depths of the world s oceans Currently over 50% of the oil from the Gulf of Mexico now comes from waters in excess of 1 500 meters one mile deep where no oil was produced just 20 years ago The Deepwater Horizon oil spill blowout did much to change the perception of oil spills as coming just from tanker accidents train derailments and pipeline ruptures In fact beginning with the Ixtoc 1 spill off Campeche Mexico in 1979 1980 there have been a series of large spill events originating at the sea bottom and creating a myriad of new environmental and well control challenges This volume explores the physics chemistry sub surface oil deposition and environmental impacts of deep oil spills Key lessons learned from the responses to previous deep spills as well as unresolved scientific questions for additional research are highlighted all of which are appropriate for governmental regulators politicians industry decision makers first responders researchers and students wanting an incisive overview of issues surrounding deep water oil and gas production

Ecosystem-Based Fisheries Management Jason S. Link, Anthony R. Marshak, 2022-01-25 By examining a suite of over 90 indicators for 9 major US fishery ecosystem

jurisdictions the authors systematically track the progress the country has made towards advancing EBFM and making it an operational reality lessons which are applicable to oceans globally

Design Change to Fishery Independent Surveys: When to Adjust and How to Account For It Fabio Campanella, Ben Scoulding, Nathan Bacheler, Kyle Shertzer, 2025-03-07

Fishery independent surveys provide crucial information for monitoring and assessing marine fish stocks Their utility can largely be attributed to sampling procedures that are consistent across space and time such that observed dynamics can reasonably be assumed to reflect those of the population or community being studied However sometimes changes to the survey design become desirable or necessary They may be desirable if the benefits of modification outweigh the benefits of consistency for example with improvements in sampling technology or efficiency revised survey priorities or increased funding that allows for greater spatial coverage or temporal resolution In other cases changes to the survey design may not be desirable but necessary for example when specific supplies or equipment become unobtainable or with reductions in funding ship time or human resources

An Ecosystem Services Approach to Assessing the Impacts of the Deepwater Horizon Oil Spill in the Gulf of Mexico National Research Council, Division on Earth and Life Studies, Ocean Studies Board, Committee on the Effects of the Deepwater Horizon Mississippi Canyon-252 Oil Spill on Ecosystem Services in the Gulf of Mexico, 2014-01-20 As the Gulf of Mexico recovers from the Deepwater Horizon oil spill natural resource managers face the challenge of understanding the impacts of the spill and setting priorities for restoration work The full value of losses resulting from the spill cannot be captured however without consideration of changes in ecosystem services the benefits delivered to society through natural processes An Ecosystem Services Approach to Assessing the Impacts of the Deepwater Horizon Oil Spill in the Gulf of Mexico discusses the benefits and challenges associated with using an ecosystem services approach to damage assessment describing potential impacts of response technologies exploring the role of resilience and offering suggestions for areas of future research This report illustrates how this approach might be applied to coastal wetlands fisheries marine mammals and the deep sea each of which provide key ecosystem services in the Gulf and identifies substantial differences among these case studies The report also discusses the suite of technologies used in the spill response including burning skimming and chemical dispersants and their possible long term impacts on ecosystem services

Future Oceans Under Multiple Stressors: From Global Change to Anthropogenic Impact Erik Olsen, Isaac C. Kaplan, Cecilie Hansen Eide, Elizabeth A. Fulton, Michael J. Fogarty, Jamie C. Tam, Saskia Anna Otto, 2020-12-30 This eBook is a collection of articles from a Frontiers Research Topic Frontiers Research Topics are very popular trademarks of the Frontiers Journals Series they are collections of at least ten articles all centered on a particular subject With their unique mix of varied contributions from Original Research to Review Articles Frontiers Research Topics unify the most influential researchers the latest key findings and historical advances in a hot research area Find out more on how to host your own Frontiers Research Topic or contribute to one as an author by contacting the Frontiers Editorial Office frontiersin.org/about/contact

Fisheries Management of

Mexican and Central American Estuaries Felipe Amezcua, Brian Bellgraph, 2014-08-13 The tropical estuarine systems of Mexico and Central America are an important part of the region's coastlines for example Mexico alone possesses more than 770 thousand hectares of mangroves as well as the largest estuarine mangrove complex on the American Pacific Marismas Nacionales yet is one of the poorest studied areas in the world This is the first book that deals extensively with fisheries management issues in this region from physical chemistry ecological and socioeconomic views providing an understanding on the function and the effects of human activities on these areas with works undertaken by local scientist

Tomorrow's Coasts: Complex and Impermanent Lynn Donelson Wright, C. Reid Nichols, 2018-06-15 This book is intended as a conceptual roadmap to show how some of the numerous pieces of complex coastal systems intersect and might interact under changing future environmental regimes It is addressed to a non technical but environmentally literate audience that includes the lay public policy makers planners engineers and academics interested in the causes and consequences of global changes as they are likely to affect coastal systems The book also outlines some strategies for anticipating and responding to the challenges that lie ahead The purpose is not to offer a technical treatise on how to build better numerical models or to provide the cognoscenti with new scientific details or theories Quite on the contrary the authors aim to provide a holistic easy accessible overview of coastal systems and therefore use a writing style that is non technical nonmathematical and non jargonized throughout Wherever scientific terms are required to avoid ambiguity a clear and simple definition is presented and those definitions are repeated in the glossary The authors aim to communicate with all who care about the future of coastal environments In Part 1 they present some underlying general big picture concepts that are applicable to coastal processes and coastal change worldwide Part 2 reviews some of the more important physical ecological and societal causes and outcomes of coastal change A selection of case studies of some prominent and highly vulnerable coastal regions is presented in Part 3 Some strategies for facilitating and supporting collaboration among the global scientific community to enhance future coastal resilience are outlined in Part 4

Ecological Informatics Friedrich Recknagel, William K. Michener, 2017-09-21 This book introduces readers to ecological informatics as an emerging discipline that takes into account the data intensive nature of ecology the valuable information to be found in ecological data and the need to communicate results and inform decisions including those related to research conservation and resource management At its core ecological informatics combines developments in information technology and ecological theory with applications that facilitate ecological research and the dissemination of results to scientists and the public Its conceptual framework links ecological entities genomes organisms populations communities ecosystems landscapes with data management analysis and synthesis and communicates new findings to inform decisions by following the course of a loop In comparison to the 2nd edition published in 2006 the 3rd edition of *Ecological Informatics* has been completely restructured on the basis of the generic conceptual framework provided in Figure 1 It reflects the significant advances in data management analysis and

synthesis that have been made over the past 10 years including new remote and in situ sensing techniques the emergence of ecological and environmental observatories novel evolutionary computations for knowledge discovery and forecasting and new approaches to communicating results and informing decisions

Modeling Coastal Hypoxia Dubravko Justic, Kenneth A. Rose, Robert D. Hetland, Katja Fennel, 2017-05-03 This book provides a snapshot of representative modeling analyses of coastal hypoxia and its effects Hypoxia refers to conditions in the water column where dissolved oxygen falls below levels that can support most metazoan marine life i e 2 mg O₂ l⁻¹ The number of hypoxic zones has been increasing at an exponential rate since the 1960s there are currently more than 600 documented hypoxic zones in the estuarine and coastal waters worldwide Hypoxia develops as a synergistic product of many physical and biological factors that affect the balance of dissolved oxygen in seawater including temperature solar radiation wind freshwater discharge nutrient supply and the production and decay of organic matter A number of modeling approaches have been increasingly used in hypoxia research along with the more traditional observational and experimental studies Modeling is necessary because of rapidly changing coastal circulation and stratification patterns that affect hypoxia the large spatial extent over which hypoxia develops and limitations on our capabilities to directly measure hypoxia over large spatial and temporal scales This book consists of 15 chapters that are broadly organized around three main topics 1 Modeling of the physical controls on hypoxia 2 Modeling of biogeochemical controls and feedbacks and 3 Modeling of the ecological effects of hypoxia The final chapter is a synthesis chapter that draws generalities from the earlier chapters highlights strengths and weaknesses of the current state of the art modeling and offers recommendations on future directions

Coastal Ecosystems in Transition Thomas C. Malone, Alenka Malej, Jadran Faganeli, 2021-01-13 Explores how two coastal ecosystems are responding to the pressures of human expansion The Northern Adriatic Sea a continental shelf ecosystem in the Northeast Mediterranean Sea and the Chesapeake Bay a major estuary of the mid Atlantic coast of the United States are semi enclosed river dominated ecosystems with urbanized watersheds that support extensive industrial agriculture Coastal Ecosystems in Transition A Comparative Analysis of the Northern Adriatic and Chesapeake Bay presents an update of a study published two decades ago Revisiting these two ecosystems provides an opportunity to assess changing anthropogenic pressures in the context of global climate change The new insights can be used to inform ecosystem based approaches to sustainable development of coastal environments Volume highlights include Effects of nutrient enrichment and climate driven changes on critical coastal habitats Patterns of stratification and circulation Food web dynamics from phytoplankton to fish Nutrient cycling water quality and harmful algal events Causes and consequences of interannual variability The American Geophysical Union promotes discovery in Earth and space science for the benefit of humanity Its publications disseminate scientific knowledge and provide resources for researchers students and professionals Read a review of this book in Marine Ecology review of this book

Climate Change Impacts on Fisheries and Aquaculture Bruce F. Phillips, Mónica Pérez-Ramírez, 2017-09-18 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.

Solving Complex Ocean Challenges Through Interdisciplinary Research: Advances from Early Career Marine Scientists Stephanie Brodie, Christopher Cvitanovic, Maria Grazia Pennino, Jon Lopez, André Frainer, Kelly Ortega-Cisneros, Natasa Maria Vaidianu, Samiya Ahmed Selim, Sabine Mathesius, 2022-06-01. The Topic Editors Stephanie Brodie, Christopher Cvitanovic, Maria Grazia Pennino, Jon Lopez, and Andr Frainer declare that they are members of the IMBeR Integrated Marine Biosphere Research network and IMECaN Interdisciplinary Marine Early Career Network and are collaborating with the IMBeR research community.

Interrelationships Between Corals and Fisheries Ph.D., Stephen A. Bortone, 2014-07-17. *Interrelationships Between Corals and Fisheries* is derived from a workshop held by the Gulf of Mexico Fishery Management Council in Tampa, Florida, in May 2013, where world authorities came together to discuss the current problems in managing tropical fisheries and offered suggestions for future directions for both researchers and environmental resources.

Managing for the Future: Understanding the Relative Roles of Climate and Fishing on Structure and Dynamics of Marine Ecosystems Alida Bundy, Marta Coll, Stefan Koenigstein, Susa Niiranen, Maria Grazia Pennino, Paul E. Renaud, Jamie C. Tam, Morgane Travers-Trolet, 2021-11-29.

Estuarine Ecology Byron C. Crump, Jeremy M. Testa, Kenneth H.

Dunton, 2022-10-07 *Estuarine Ecology* A detailed and accessible exploration of the fundamentals and the latest advances in estuarine ecology In the newly revised third edition of *Estuarine Ecology* a team of distinguished ecologists presents the current knowledge in estuarine ecology with particular emphasis on recent trends and advances The book is accessible to undergraduate students while also providing a welcome summary of up to date content for a more advanced readership This latest edition is optimized for classroom use with a more intuitive mode of presentation that takes into account feedback from the previous edition's readers Review questions and exercises have been added to assist in the learning and retention of complex concepts *Estuarine Ecology* remains the gold standard for the discipline by taking stock of the manifold scientific breakthroughs made in the field since the last edition was written It also offers Thorough introductions to estuarine geomorphology circulation and chemistry In depth treatments of estuarine primary and secondary production including coastal marshes and mangrove wetlands A holistic view of estuarine ecosystems their modeling and analysis as well as the impact of human activities and climate change A companion website with detailed answers to exercise questions Perfect for students of estuarine ecology environmental science fisheries science oceanography and natural resource management *Estuarine Ecology* will also earn a place in the libraries of professionals government employees and consultants working on estuary and wetlands management and conservation

Biology and Ecology of Groupers Fabiana Cézar

Félix-Hackradt, Carlos Werner Hackradt, José Antonio García-Charton, 2022-06-08 Groupers are fascinating charismatic fishes commonly found in reef habitats around the world that sustain a global multimillionaire fishery They are an important top predator species and therefore of paramount ecological importance for reef systems resilience The book *Biology and Ecology of Groupers* is an up to date review of the main bio ecological topics involving worldwide groupers species oriented to the academic community and managers It covers aspects of classification and phylogenetic relationships geographical distribution and life history related characteristics Section I including the major threats of groupers populations case studies of successful management and comments about the future of groupers in our changing world Section II

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