

# Concepts and Controversies in Tidal Marsh Ecology

Edited by  
Michael P. Weinstein and Daniel A. Kreeger



Springer-Science+Business Media, B.V.

# Concepts And Controversies In Tidal Marsh Ecology

**Darold P. Batzer, Andrew H. Baldwin**



## **Concepts And Controversies In Tidal Marsh Ecology:**

**Concepts and Controversies in Tidal Marsh Ecology** M.P. Weinstein, Daniel A. Kreeger, 2007-05-08 In 1968 when I forsook horticulture and plant physiology to try with the help of Sea Grant funds wetland ecology it didn't take long to discover a slim volume published in 1959 by the University of Georgia and edited by R A Ragotzkie L R Pomeroy J M Teal and D C Scott entitled Proceedings of the Salt Marsh Conference held in 1958 at the Marine Institute Sapelo Island Ga Now forty years later the Sapelo Island conference has been the major intellectual impetus and another Sea Grant Program the major backer of another symposium the International Symposium Concepts and Controversies in Tidal Marsh Ecology This one re-examines the ideas of that first conference ideas that stimulated four decades of research and led to major legislation in the United States to conserve coastal wetlands It is dedicated appropriately to two then young scientists Eugene P Odum and John M Teal whose inspiration has been the starting place for a generation of coastal wetland and estuarine research I do not mean to suggest that wetland research started at Sapelo Island In 1899 H C Cowles described successional processes in Lake Michigan freshwater marsh ponds There is a large and valuable early literature about northern bogs most of it from Europe and the former USSR although Evile Gorham and R L Lindeman made significant contributions to the American literature before 1960 V J

Concepts and Controversies in Tidal Marsh Ecology M.P. Weinstein, Daniel A. Kreeger, 2000-10-31 Tidal salt marshes are viewed as critical habitats for the production of fish and shellfish As a result considerable legislation has been promulgated to conserve and protect these habitats and much of it is in effect today The relatively young science of ecological engineering has also emerged and there are now attempts to reverse centuries old losses by encouraging sound wetland restoration practices Today tens of thousands of hectares of degraded or isolated coastal wetlands are being restored worldwide Whether restored wetlands reach functional equivalency to natural systems is a subject of heated debate Equally debatable is the paradigm that depicts tidal salt marshes as the great engine that drives much of the secondary production in coastal waters This view was questioned in the early 1980s by investigators who noted that total carbon export on the order of 100 to 200 g m<sup>2</sup> y<sup>-1</sup> was of much lower magnitude than originally thought These authors also recognized that some marshes were either net importers of carbon or showed no net exchange Thus the notion of outwelling has become but a single element in an evolving view of marsh function and the link between primary and secondary production The revisionist movement was launched in 1979 when stable isotopic ratios of macrophytes and animal tissues were found to be mismatched Some eighteen years later the view of marsh function is still undergoing additional modification and we are slowly unraveling the complexities of biogeochemical cycles nutrient exchange and the links between primary producers and the marsh estuary fauna Yet since Teal's seminal paper nearly forty years ago we are not much closer to understanding how marshes work If anything we have learned that the story is far more complicated than originally thought Despite more than four decades of intense research we do not yet know how salt marshes function as essential habitat nor do we know the

relative contributions to secondary production both in situ or in the open waters of the estuary The theme of this Symposium was to review the status of salt marsh research and revisit the existing paradigm s for salt marsh function Challenge questions were designed to meet the controversy head on Do marshes support the production of marine transient species If so how Are any of these species marsh obligates How much of the production takes place in situ versus in open waters of the estuary coastal zone Sessions were devoted to reviews of landmark studies or current findings that advance our knowledge of salt marsh function A day was also devoted to ecological engineering and wetland restoration papers addressing state of the art methodology and specific case histories Several challenge papers arguing for and against our ability to restore functional salt marshes led off each session This volume is intended to serve as a synthesis of our current understanding of the ecological role of salt marshes and will it is hoped pave the way for a new generation of research *Special Issue Concepts and Controversies in Tidal Marsh Ecology* D. A. Kreeger, 2000

### **The Management of Natural Coastal Carbon Sinks**

Dan Laffoley, Gabriel D. Grimsditch, 2009

### **Wetland Habitats of North America**

Darold P. Batzer, Andrew H. Baldwin, 2012-05-22 Wetland Habitats of North America is essential reading for everyone who studies manages or visits North American wetlands It fills an important void in the wetland literature providing accessible and succinct descriptions of all of the continent s major wetland types Arnold van der Valk Iowa State University Batzer and Baldwin have compiled the most comprehensive compendium of North American wetland habitats and their ecology that is presently available a must for wetland scientists and managers Irving A Mendelssohn Louisiana State University If you want to gain a broad understanding of the ecology of North America s diverse wetlands Wetland Habitats of North America is the book for you Darold Batzer and Andrew Baldwin have assembled an impressive group of regional wetland scientists who have produced a virtual encyclopedia to the continent s wetlands Reading the book is like a road trip across the Americas with guided tours of major wetland types by local experts Your first stop will be to coastal wetlands with eight chapters covering tidal wetlands along the Atlantic Gulf and Pacific coasts Then you ll travel inland where you can visit any or all of 18 types ranging from bottomland swamps of the Southeast to pothole marshes of the Northern Prairies to montane wetlands of the Rockies to tropical swamps of Central America and desert springs wetlands All in one book I m impressed Every wetlander should add this book to her or his swampland library Ralph Tiner University of Massachusetts Amherst *Salt Marshes* Duncan M.

FitzGerald, Zoe J. Hughes, 2021-04-22 A multidisciplinary review of salt marshes describing how they function and respond to external pressures such as sea level rise

### **Wetlands: Functioning, Biodiversity Conservation, and Restoration**

Roland Bobbink, Boudewijn Beltman, Jos T.A. Verhoeven, Dennis F. Whigham, 2007-06-19 This book gives a broad and well integrated overview of recent major scientific results in wetland science and their applications in natural resource management After an introduction into the field 12 chapters contributed by internationally known experts summarize the state of the art on a multitude of topics The coverage is divided into three sections Functioning of Plants and Animals in

Wetlands Conservation and Management of Wetlands and Wetland Restoration and Creation      **Nitrogen in the Marine Environment** Douglas G. Capone, Deborah A. Bronk, Margaret R. Mulholland, Edward J. Carpenter, 2008-08-01 Since the first edition of Nitrogen in the Marine Environment was published in 1983 it has been recognized as the standard in the field In the time since the book first appeared there has been tremendous growth in the field with unprecedented discoveries over the past decade that have fundamentally changed the view of the marine nitrogen cycle As a result this Second Edition contains twice the amount of information that the first edition contained This updated edition is now available online offering searchability and instant multi user access to this important information The classic text fully updated to reflect the rapid pace of discovery Provides researchers and students in oceanography chemistry and marine ecology an understanding of the marine nitrogen cycle Available online with easy access and search the information you need when you need it

Understanding Terrestrial Microbial Communities Christon J. Hurst, 2019-03-27 This book presents a summary of terrestrial microbial processes which are a key factor in supporting healthy life on our planet The authors explain how microorganisms maintain the soil ecosystem through recycling carbon and nitrogen and then provide insights into how soil microbiology processes integrate into ecosystem science helping to achieve successful bioremediation as well as safe and effective operation of landfills and enabling the design of composting processes that reduce the amount of waste that is placed in landfills The book also explores the effect of human land use including restoration on soil microbial communities and the response of wetland microbial communities to anthropogenic pollutants Lastly it discusses the role of fungi in causing damaging and often lethal infectious diseases in plants and animals      Ecological Engineering and Ecosystem Restoration William J. Mitsch, Sven Erik Jørgensen, 2003-09-18 Completely updated to keep pace with current technology Provides a firm grounding the fundamentals theory and latest techniques Includes completely updated case studies      Salt Marshes Judith S Weis, Carol A Butler, 2009-07-16 Tall green grass Subtle melodies of songbirds Sharp whines of muskrats Rustles of water running through the grasses And at low tide a pungent reminder of the treasures hidden beneath the surface All are vital signs of the great salt marshes natural resources Now championed as critical habitats for plants animals and people because of the environmental service and protection they provide these ecological wonders were once considered unproductive wastelands home solely to mosquitoes and toxic waste and mistreated for centuries by the human population Exploring the fascinating biodiversity of these boggy wetlands Salt Marshes offers readers a wealth of essential information about a variety of plants fish and animals the importance of these habitats consequences of human neglect and thoughtless development and insight into how these wetlands recover Judith S Weis and Carol A Butler shed ample light on the human impact including chapters on physical and biological alterations pollution and remediation and recovery programs In addition to a national and global perspective the authors place special emphasis on coastal wetlands in the Atlantic and Gulf regions as well as the San Francisco Bay Area calling attention to their historical and economic legacies Written in clear easy to read

language Salt Marshes proves that the battles for preservation and conservation must continue because threats to salt marshes ebb and flow like the water that runs through them Australian Saltmarsh Ecology Neil Saintilan, 2009 Australian Saltmarsh Ecology presents the first comprehensive review of the ecology and management of Australian saltmarshes The past 10 years in particular have seen a sustained research effort into this previously poorly understood and neglected resource In ten chapters contributed by experts in each discipline the book outlines what is known of the biogeography and geomorphology of Australian saltmarshes their fish and invertebrate ecology the use of Australian saltmarshes by birds and insectivorous bats and the particular challenges of management including the control of mosquito pests and the issue of sea level rise It provides a powerful argument that coastal saltmarsh is a unique and critical habitat vulnerable to the combined impacts of coastal development and sea level rise Ecology of Tidal Freshwater Forested Wetlands of the Southeastern United States William H. Conner, Thomas W. Doyle, Ken W. Krauss, 2007-06-24 Tidal freshwater forested wetlands represent an intriguing and understudied type of ecosystem in the southeastern United States The phyogeographic position of tidal freshwater forested wetlands in occupying low lying coastal areas makes them susceptible to upland runoff tidal flooding saltwater intrusion and other global climate change phenomena While information on them is rather sparse in the scientific literature these ecosystems are among the most sensitive to sea level rise and increased drought or flood frequency Tidal freshwater forested wetlands are readily impacted by acute and chronic exposure to even low levels of salinity The combined stress of flooding and salinity may compound the threat in these systems such that the margin for survival and compensation to changing climate is much less than for other coastal habitats In this book we bring together principal investigators whose research focus has targeted the hydrology biogeochemistry community ecology forestry stress physiology and restoration of tidal freshwater forested wetlands in the southeastern United States It is our foremost intent to develop an up to date treatise that includes not only peer reviewed journal articles but also the dispersive grey literature on the topic in order to spark future research interest in tidal freshwater forested wetlands and to provide land managers with a concise overview of research findings We have thus formalized all scientific and common names into the standard of ITIS Integrated Taxonomic Information System <http://www.itis.gov> **Coastal Wetlands** Gerardo M.E. Perillo, Eric Wolanski, Donald R. Cahoon, Mark M. Brinson, 2009-01-18 Coastal wetlands are under a great deal of pressure from the dual forces of rising sea level and the intervention of human populations both along the estuary and in the river catchment Direct impacts include the destruction or degradation of wetlands from land reclamation and infrastructures Indirect impacts derive from the discharge of pollutants changes in river flows and sediment supplies land clearing and dam operations As sea level rises coastal wetlands in most areas of the world migrate landward to occupy former uplands The competition of these lands from human development is intensifying making the landward migration impossible in many cases This book provides an understanding of the functioning of coastal ecosystems and the ecological services that they provide and suggestions for their management In

this book a CD is included containing color figures of wetlands and estuaries in different parts of the world Includes a CD containing color figures of wetlands and estuaries in different parts of the world *Wetlands* William J. Mitsch, James G. Gosselink, Christopher J. Anderson, M. Siobhan Fennessy, 2023-07-12 WETLANDS The definitive guide to wetlands for students and professionals alike Wetlands rank among the most productive but also the most vulnerable ecosystems They break down toxins and help maintain aquatic ecosystems provide both permanent and temporary homes for key species and contribute enormously to biodiversity and global ecological health In recent years the importance of wetlands has been increasingly well understood and their management and restoration has become a particular focus of environmental research Wetlands provides a thorough and comprehensive overview of wetlands updated to reflect the latest research findings and methodological approaches as it has done for more than a generation The new edition has been optimized for classroom use breaking down the topic into four parts introduction to wetlands the wetland environment wetland ecosystems and wetland management Readers of the sixth edition of Wetlands will also find A detailed discussion of the role of wetlands in improving water quality protection from storm damage and other ecosystem services The latest approaches and examples of wetland creation and restoration A thorough discussion of the impacts of climate change on wetlands and how to mitigate them Wetlands is essential reading for students and professionals in ecology environmental engineering and water resource management *Human Impacts on Salt Marshes* Brian R. Silliman, Edwin D. Grosholz, Mark D. Bertness, 2009-06-03 Human Impacts on Salt Marshes provides an excellent global synthesis of an important underappreciated environmental problem and suggests solutions to the diverse threats affecting salt marshes Peter B Moyle University of California Davis

*Wetlands Management* Didem Gokce, 2019-01-23 Wetlands include mangroves peatlands and marshes rivers and lakes deltas floodplains rice fields and even coral reefs It is known that wetlands are ecologically sensitive systems and the most vulnerable of habitats Anthropogenic activities urbanization water uses land cover changes industrial activity pollution climatic change etc have direct and indirect effects on wetlands The evaluation of wetlands with a multidisciplinary perspective in environmental sciences and social sciences provides efficient results Each chapter takes a crucial look at different approaches to the solution by analyzing wetland problems in the laboratory or in the field and collecting data The purpose of this book is to help researchers scientists and decision makers utilize a methodology appropriate for a specific problem **The Biology of Terrestrial Isopods** Spyros Sfenthourakis, 2003-12-01 Oniscids are wonderful model organisms for studies addressing more general biological questions and they arguably demonstrate the best evolutionary progression in any extant group of organisms Their unique properties as terrestrial crustaceans living in a wide range of habitats from coast to desert offer great advantages to study physiological and behavioural adaptations ecological phylogenetic and biogeographical patterns and evolutionary processes This volume contains contributions which were presented at the 5th International Symposium on the Biology of Terrestrial Isopods that took place on Crete May 2001 and which was dedicated to

the memory of the late Marie Flasarova All papers have been peer reviewed before inclusion in the book The contributions give a well balanced account of current research on all aspects covering systematics ecology biogeography morphology physiology immunology endocrinology behaviour and hostparasite relationships of biology of the remarkable creatures included in the Isopoda suborder Oniscidae the only crustaceans that have conquered almost all terrestrial habitat types This book will prove useful to all crustacean researchers working on either terrestrial freshwater or marine organisms

Sustainability Science Michael P. Weinstein, R. Eugene Turner, 2012-06-05 The object of this book is to highlight how the nascent field of sustainability science is addressing a key challenges for scientists that is understanding the workings of complex systems especially when humans are involved A consistent thread in the sustainability science movement is the wide acknowledgement that greater degrees of integration across what are now segmented dimensions of extant Science and Technology systems will be a key factor in matching the most appropriate science and technology solutions to specific sustainability problems in specific places *Ecological Status Assessment of Transitional Waters* Chiara FACCA, 2021-04-14 Coastal transitional ecosystems include a wide range of morphological features i e lagoons wetlands estuaries deltas and so on According to the Ramsar Convention they are among the most diverse and productive ecosystems and are continually degraded and converted to other uses To protect and restore these highly valuable ecosystems knowledge of their processes and the assessment of their ecological conditions under anthropogenic pressures is of fundamental importance The present book contains eight original research papers and a review that provide useful tools to understand the structure and function of transitional waters worldwide The results allow us to assess the impact of anthropogenic activities and inform stakeholders on the actions that can be taken to manage them The papers in this book provide different ecological approaches to investigate some main impacts benthic and nekton communities were studied to assess the impact of eutrophication and salinity changes biological processes in carbon dioxide fluxes were assessed in the framework of climate change nekton communities were discussed in relation to habitat morphological degradation the role of invasive alien species was considered



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