

Atlantic Shorelines

Natural History and Ecology



Mark D. Bertness

Atlantic Shorelines Natural History And Ecology

Patrick J. Lynch



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Atlantic Shorelines Mark D. Bertness, 2007 *Atlantic Shorelines* is an introduction to the natural history and ecology of shoreline communities on the East Coast of North America. Writing for a broad audience, Mark Bertness examines how distinctive communities of plants and animals are generated on rocky shores and in salt marshes, mangroves, and soft sediment beaches on Atlantic shorelines. The book provides a comprehensive background for understanding the basic principles of intertidal ecology and the unique conditions faced by intertidal organisms. It describes the history of the Atlantic Coast tides and near shore oceanographic processes that influence shoreline organisms, explains primary production in shoreline systems, intertidal food webs, and the way intertidal organisms survive, sets out the unusual reproductive challenges of living in an intertidal habitat, and the role of recruitment in shaping intertidal communities, and outlines how biological processes like competition, predation, facilitation, and ecosystem engineering generate the spatial structure of intertidal communities. The last part of the book focuses on the ecology of the three main shoreline habitats: rocky shores, soft sediment beaches, and shorelines vegetated with salt marsh plants and mangroves, and discusses in detail conservation issues associated with each of them.

Atlantic Shorelines Mark D. Bertness, 2024-05-14 A comprehensive introduction to the natural history and intertidal ecology of East Coast shorelines. *Atlantic Shorelines* is an introduction to the natural history and ecology of shoreline communities on the East Coast of North America. Writing for a broad audience, Mark Bertness examines how distinctive communities of plants and animals are generated on rocky shores and in salt marshes, mangroves, and soft sediment beaches on Atlantic shorelines. The book provides a comprehensive background for understanding the basic principles of intertidal ecology and the unique conditions faced by intertidal organisms. It describes the history of the Atlantic Coast tides and near shore oceanographic processes that influence shoreline organisms, explains primary production in shoreline systems, intertidal food webs, and the way intertidal organisms survive, sets out the unusual reproductive challenges of living in an intertidal habitat, and the role of recruitment in shaping intertidal communities, and outlines how biological processes like competition, predation, facilitation, and ecosystem engineering generate the spatial structure of intertidal communities. The last part of the book focuses on the ecology of the three main shoreline habitats: rocky shores, soft sediment beaches, and shorelines vegetated with salt marsh plants and mangroves, and discusses in detail conservation issues associated with each of them.

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The Atlantic Coast Harry Thurston, 2011 Presents a look at the northern Atlantic Coast of North America, describing its ecosystems, forest realms, geological structures, the fish, bird, and plant life that flourish there, and the conservation efforts that have been made to preserve it. The Archaeology of

Human-Environmental Dynamics on the North American Atlantic Coast Leslie Reeder-Myers, John A. Turck, Torben C. Rick, 2019-11-04 This edited volume brings together leading scholars focused on the Native American peoples who called the Atlantic coast home for thousands of years Each chapter will address an individual region of the Atlantic coast of North America ranging from the Canadian Maritime Provinces to the Florida Keys **A Field Guide to the Mid-Atlantic Coast** Patrick J. Lynch, 2021-03-23 A beautifully illustrated field guide to the Mid Atlantic region from the Jersey Shore to Cape Hatteras The Outer Banks of North Carolina and the beaches of the Mid Atlantic Coast are among the most popular tourist destinations in the United States This book is a richly illustrated field guide that surveys the geology environmental history natural history and human history of a region that spans the eastern seaboard from Sandy Hook in New Jersey south to Cape Hatteras on the Outer Banks of North Carolina It is organized around environments not particular locations Included are the geology of beaches and barrier islands the environmental history of the region as well as detailed looks at the natural history of beaches dunes maritime forests coastal marshes and estuaries Also covered are issues involving human activity and climate change which have become dominant forces shaping geophysical and biological environments This guide will enable users to walk into a salt marsh or onto a beach and identify much of what they see **A Field Guide to Long Island Sound** Patrick J. Lynch, 2017-01-01 Cover Half title Title Copyright Contents Acknowledgments Preface Regional map Introduction Physical coast Weather and water Human history Shallows Depths Beaches and dunes Rocky shores Salt marshes Coastal forests Connecticut locations New York locations Bibliography Illustration Credits Index A B C D E F G H I J K L M N O P Q R S T V W Y **Prospects for Resilience** Eric W. Sanderson, William D. Solecki, John R. Waldman, Adam S. Parris, 2016-11-17 Given the realities of climate change and sea level rise coastal cities around the world are struggling with questions of resilience Resilience at its core is about desirable states of the urban social ecological system and working to sustain those states in an uncertain and tumultuous future How do physical conditions ecological processes social objectives human politics and history shape the prospects for resilience Most books set out the answer This book sets out a process of grappling with holistic resilience from multiple perspectives drawing on the insights and experiences of more than fifty scholars and practitioners working together to make Jamaica Bay in New York City an example for the world Ranging from a framework for understanding resilience practice in urban watersheds to essential tools for research and practice Prospects for Resilience is filled with information and advice for scientists urban planners students and others who are working to create more resilient cities that work with not against nature **A Field Guide to Cape Cod** Patrick J. Lynch, 2018-11-02 A richly illustrated full color guide to the unique plants wildlife and environments of Cape Cod and the other nearby Outer Lands that face the Atlantic Ocean This essential guidebook presents the most abundantly illustrated and fascinating account of the natural history of Cape Cod its nearby islands Block Island the western coast of Rhode Island and southeastern Long Island ever published Exploring the ecology and most common plants and animals of the various regional environments

beaches dunes salt marshes heathlands and coastal forests the book also encompasses marine mammals sea turtles and fish offshore For nature loving local residents and visitors alike this essential book will be a treasured resource **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 *Marine Ecology*

Michel J Kaiser, Peter J. leB. Williams, 2011-07-21 Marine Ecology Processes Systems and Impacts offers a carefully balanced and stimulating survey of marine ecology introducing the key processes and systems from which the marine environment is formed and the issues and challenges which surround its future conservation **Aquatic Parasitology: Ecological and Environmental Concepts and Implications of Marine and Freshwater Parasites** Nico J. Smit, Bernd Sures, 2025-06-16

This open access volume is the first to provide a comprehensive overview of the ecological and environmental characteristics of marine and freshwater parasites In three clearly organized sections world leading authors present the current state of our knowledge as well as the future trends for their respective fields in aquatic parasitology First the basic life cycle strategies of the various major groups of aquatic parasites are presented including protists myxozoa aquatic fungi helminths and arthropods Subsequent chapters explore the ecological implications of aquatic parasites covering topics such as biodiversity evolution community structures behavior and conservation to name a few In addition important developments in research are presented such as the use of different molecular tools and eDNA in aquatic parasitology The final section is devoted to the new field of environmental parasitology where readers will find contributions on biological markers invasive species and bioindicators of environmental pollution among others Due attention is also given to zoonoses aquaculture and the effects of climate change on aquatic parasites All chapters include original high quality illustrations and never before seen photographs which complement the diverse aspects of aquatic parasitology described Thus this book is a must for every parasitologist and ecologist **Coastal Wetlands of the World** David B. Scott, Jennifer Frail-Gauthier, P. J. Mudie, Petra J. Mudie, 2014-03-27 A cutting edge introduction to coastal wetlands and their applications for students on related earth and life science courses and researchers

Lagoons of Sri Lanka Silva, E. I. L., Katupotha, J., Amarasinghe, O., Manthrithilake, H., Ariyaratna, R., 2013-03-01 Sri Lanka an island in the Indian Ocean has lagoons along 1 338 km of its coastline They experience low energy oceanic waves and semidiurnal microtidal currents The Sri Lankan coastal lagoons are not numerous but they are diverse in size shape configuration ecohydrology and ecosystem values and services The heterogeneous nature in general and specific complexities to a certain extent exhibited by coastal lagoons in Sri Lanka are fundamentally determined by coastal and adjoining hinterland geomorphology tidal fluxes and fluvial inputs monsoonal driven climate and weather morphoedaphic attributes and cohesive interactions with human interventions Most coastal lagoons in Sri Lanka are an outcome of mid Holocene marine transgression and subsequent barrier formation and spit development enclosing the water

body between the land and the sea This process has varied from one coastal stretch to another due to wave derived littoral drift sediment transport by tidal fluxes fluvial inputs and wave action or in other words sea level history shore face dynamics and tidal range as the three major factors that control the origin and maintenance of the sandy barrier the most important features for the formation and evolution of coastal lagoons with their landward water mass In certain stretches of Sri Lanka s coastline formation of the barrier spit was very active due to shore face dynamics that resulted in chains of shore parallel elongated lagoons They are among the most productive in terms of ecosystem yield and show some similarities to large tropical lagoons with respect to sea entrance zonation biodiversity and ecosystem services However some of them become seasonally hypersaline due to lack of freshwater input and high evaporation Functions and processes of some of these water bodies are fairly known There are a fair number of small back barrier lagoons of different shapes and sizes whose origin goes back to sea level history They are located on low energy coasts with prominent beach ridges and restricted hinterland geomorphology Mixing processes of these landward indentations are hindered by elevated sand dunes and their salinity increases due to poor freshwater input and high evaporation leading to seasonally hypersaline conditions These sedimented lagoons primarily confined to the southeastern coast of the island are biologically the least productive with limited ecosystem values and services Another group of moderately elongated semicircular slightly large lagoons in the same coast formed exclusively by submergence due to mid Holocene sea level rises do not receive sufficient freshwater input leading to seasonally hypersaline conditions They are also biologically unproductive but some are ecologically important since they provide habitats conducive to migratory birds In contrast some lagoons on the southern coast receive sufficient freshwater via streams draining the wet zone maintain more estuarine salinities exhibit rich biodiversity and serve as functional resource units Lagoons formed by mid Holocene submergence and recession of water level with simultaneous chain barrier formation on the high energy southwest coast which includes cliffs small bays and headlands show peculiar configurations and link channel characteristics Some of these irregular water bodies have clusters of small isles and luxuriant mangrove swamps with high biodiversity but not very rich in catadromous finfish and shellfish species due to the restricted nature of the entrance channel and nondistinct salinity gradients The barrier built seasonally hypersaline lagoon complex in the Jaffna Peninsula the largest lagoon system in the country with multiple perennial entrances show extremely narrow salinity ranges towards the upper limit of salinity The main lagoon is elongated and the shore parallel to eastward and southward extensions is connected by narrow channels The other lagoon in the Jaffna Peninsula is elongated shore parallel and ribbon shaped and receives tidal water throughout the year but freshwater is received only from precipitation and surface runoff Even though the lagoons in the peninsula are extremely rich in ecosystem heterogeneity their hydrology and hydrodynamics have been severely disturbed by infrastructural development for transportation and by attempts to create a freshwater river for Jaffna There are a few virgin lagoons of moderate size also on the northern coast south of the Jaffna Peninsula on both the east and

west sides They look very typical tropical lagoons rich in biodiversity and biological production but their structure functions and values are virtually unknown in scientific or socioeconomic terms The lagoons located on the east coast are not numerous but relatively large in extent They are also an outcome not only of mid Holocene sea level rises but of submerged multi delta valleys or abandoned paleo estuaries When inundated the multi delta valley configuration became elongated and is shore parallel with a smooth seaward shoreline both shorelines become irregular when coastal waves are weak and internal waves are created by the action of local winds Configuration of a lagoon formed by inundation of an abandoned river valley is irregular with a long entrance channel extended landward These lagoons are highly productive with a variety of associated ecosystems large open water areas and wide perennial sea entrances When the lagoon is too much elongated zonation is prominent due to fewer entrance effects Lagoons form a particular type of natural capital which generates use values fish shrimp fuelwood salt fodder ecotourism anchorage recreation etc and nonuse values habitat preservation biodiversity ecosystem linkages etc contributing positively towards improving the human well being Of many values of lagoons in Sri Lanka only the extractive values are generally utilized at present by way of fish and shrimp catches salt production and use of mangrove for various purposes Besides coastal lagoons generate a range of nonextractive use values and nonuse values which could add towards the total economic value Misuse has taken place at several instances when use adversely affects the status of the resources or the health of the ecosystem due to vulnerability and poverty population pressure urbanization development activities and multi stakeholder issues The status of lagoon resources shows that the resources in the majority of Sri Lankan lagoons still remain satisfactory somewhat good or very good Nevertheless concerns for management of lagoons in Sri Lanka exist only where use values extractive values such as fish and shrimp exist There is no evidence of resources management in lagoons for inspirational scholarly values or tacit knowledge of the same Management for use values exhibits several stages from zero management to comanagement via community management and state intervention Most of Sri Lanka s lagoons have the potential for generating high extractive and nonextractive use values which could improve the human well being while maintaining resources sustainability Unfortunately these potentials have not been understood or seen yet by the relevant authorities although a few instances of exploring this potential were noticed Islands in the Sand Daniel A. McCarthy, Kenyon C. Lindeman, David B. Snyder, Karen G.

Holloway-Adkins, 2020-10-22 Nearshore hardbottom reefs of Florida s east coast are used by over 1100 species of fishes invertebrates algae and sea turtles These rocky reefs support reproduction settlement and habitat use and are energy sources and sinks They are also buried by beach renourishment projects in which artificial reefs are used for mitigation This comprehensive book is for research scientists and agency personnel yet accessible to interested laypersons including beachfront residents and water users An unprecedented collection of research information and often stunning color photographs are assembled including over 1250 technical citations and 127 figures These shallow reefs are part of a mosaic

of coastal shelf habitats including estuarine seagrasses and mangroves and offshore coral reefs These hardbottom habitats are federally designated as Essential Fish Habitats Habitats of Particular Concern and are important feeding areas for federally protected sea turtles Organismal and assemblage responses to natural and man made disturbances including climate change are examined in the context of new research and management opportunities for east Florida s islands in the sand

Coastal Change, Ocean Conservation and Resilient Communities Marcha Johnson,Amanda Bayley,2016-11-24 This collection of essays and design case studies explores a range of ideas and best practices for adapting to dynamic waterfront conditions while incorporating nature conservation in urbanized coastal areas The editors have curated a selection of works contributed by leading practitioners in the fields of coastal science community resilience habitat restoration sustainable landscape architecture and floodplain management By highlighting ocean friendly innovations and strategies being applied in coastal cities today this book illustrates ways to cohabit with many other species who share the waterfront with us feed in salt marshes bury their eggs on sandy beaches fly south over cities along the Atlantic Flyway or attach themselves to an oyster reef This book responds to the need for inventive practical and straightforward ways to weather a changing climate while being responsible shoreline stewards

The Extreme Life of the Sea Stephen R. Palumbi,Anthony R. Palumbi,2014-02-23 A thrilling tour of the sea s most extreme species written by one of the world s leading marine scientists The ocean teems with life that thrives under difficult situations in unusual environments The Extreme Life of the Sea takes readers to the absolute limits of the ocean world the fastest and deepest the hottest and oldest creatures of the oceans It dives into the icy Arctic and boiling hydrothermal vents and exposes the eternal darkness of the deepest undersea trenches to show how marine life thrives against the odds This thrilling book brings to life the sea s most extreme species and tells their stories as characters in the drama of the oceans Coauthored by Stephen Palumbi one of today s leading marine scientists The Extreme Life of the Sea tells the unforgettable tales of some of the most marvelous life forms on Earth and the challenges they overcome to survive Modern science and a fluid narrative style give every reader a deep look at the lives of these species The Extreme Life of the Sea shows you the world s oldest living species It describes how flying fish strain to escape their predators how predatory deep sea fish use red searchlights only they can see to find and attack food and how at the end of her life a mother octopus dedicates herself to raising her batch of young This wide ranging and highly accessible book also shows how ocean adaptations can inspire innovative commercial products such as fan blades modeled on the flippers of humpback whales and how future extremes created by human changes to the oceans might push some of these amazing species over the edge An enhanced edition is also available and includes eleven videos

The Natural Communities of Georgia Leslie Edwards,Jonathan Ambrose,L. Katherine Kirkman,2013-02-01 The Natural Communities of Georgia presents a comprehensive overview of the state s natural landscapes providing an ecological context to enhance understanding of this region s natural history Georgia boasts an impressive range of natural communities

assemblages of interacting species that have either been minimally impacted by modern human activities or have successfully recovered from them This guide makes the case that identifying these distinctive communities and the factors that determine their distribution are central to understanding Georgia s ecological diversity and the steps necessary for its conservation Within Georgia s five major ecoregions the editors identify and describe a total of sixty six natural communities such as the expansive salt marshes of the barrier islands in the Maritime ecoregion the fire driven longleaf pine woodlands of the Coastal Plain the beautiful granite outcrops of the Piedmont the rare prairies of the Ridge and Valley and the diverse coves of the Blue Ridge With contributions from scientists who have managed researched and written about Georgia landscapes for decades the guide features more than four hundred color photographs that reveal the stunning natural beauty and diversity of the state The book also explores conservation issues including rare or declining species current and future threats to specific areas and research needs and provides land management strategies for preserving restoring and maintaining biotic communities The Natural Communities of Georgia is an essential reference for ecologists and other scientists as well as a rich resource for Georgians interested in the region s natural heritage

Parasites in Marine Systems R. Poulin,Robert Poulin,Leslie H. Chappell,2002 Synthesises the available key information on the biology of marine parasites and their hosts Ecology and Evolution of Non-Consumptive Effects in Host-Parasite Interactions Lien Luong,Julia Buck,Janet Koprivnikar,Sara B. Weinstein,2021-12-31

Enjoying the Tune of Expression: An Mental Symphony within **Atlantic Shorelines Natural History And Ecology**

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