

Mangrove Management, Assessment and Monitoring

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Abstract

This chapter provides an overview of mangrove management, assessment, and monitoring. It addresses the need for integrated planning and management, based on sound legal principles. The central part of the chapter covers mangrove conservation and planting. Conserving existing mangrove forest is often more effective than planting new forests. When a decision for planting has been made, one has to differentiate between planting on degraded and non-degraded sites and distinguish between replanting, rehabilitation, restoration, and afforestation. Emphasis is put on the need for careful selection of appropriate sites and species and on an ecosystem-based approach to mangrove planting and management which uses and supports natural regeneration and other natural processes. Since the primary intention with any rehabilitation intervention works is for improved protection of existing seedlings and forests from degradation or destruction, then planting should be undertaken only if absolutely necessary. Involving local communities in mangrove management is an effective way of maintaining and enhancing the protection function of the mangrove forest while providing livelihood for local people and contributing to better assessment and governance of natural resources. Assessment of the status of mangrove forests is essential for better conservation planning and management. This includes research and economic assessment and valuation. The last section highlights the importance of applied/participatory as well as academic and long-term monitoring (see also chapter “► [Mangroves: Unusual Forests at the Seas Edge](#)”).

Keywords

Mangrove management; Planting; Rehabilitation; Restoration; Monitoring; Co-management; Site assessment; Hydrology; Coastal dynamic and protection; Climate change; Ecosystem services; Economic values

Introduction

Mangroves, as forested wetland habitat, provide a wide range of ecosystem services (Millennium Ecosystem Assessment 2005; Barbier 2007) including protection of beaches and coastlines from storms, waves, and floods; reduction of beach and soil erosion; and carbon sequestration. They also provide nursery grounds, food, shelter, and habitat for a wide range of aquatic species and thereby increase income through fisheries (Barbier 2007; Nagelkerken et al. 2008; Walters et al. 2008; Alongi 2009, 2014; Lee et al. 2014; Duke and Schmitt 2015). Yet, despite their importance, mangroves all over the world have been degraded and converted to other forms of land use on a large scale (Alongi 2002; Duke et al. 2007;

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Mangrove Biology, Ecosystem, and Conservation ,2023-11-22 Mangroves are considered the wonder flora distributed in the tropics subtropics and warm temperate latitudes Aside from protecting the coastal marine communities mangroves also serve as a haven for aquatic and terrestrial fauna actively participate in energy dynamics recycle nutrients filter waste and support the livelihood of coastal communities This makes the mangrove ecosystem crucial to the well being of the planet This book written by experts provides invaluable insights into mangroves of the Niger Delta the relationship between mangrove recruitment and thrombolytic development deforestation and sustainability mangrove health assessment ecosystem based coastal protection and conservation through ecotourism This book on mangrove biology ecosystem and conservation is an invaluable resource for every mangrove enthusiast *Mangrove Forest Management Guidelines* Food and Agriculture

Organization of the United Nations. Forest Resources Development Branch,1994-01-01 **Ecological Modeling For Mitigating Environmental And Climate Shocks: Achieving The Unsds** Hock Lye Koh,Su Yean Teh,2021-07-08 Lakes wetlands and coastal regions provide essential services critical to the survival of human wildlife and by and large the ecosystems which are constantly threatened by anthropogenic activities environmental degradation and climate change Marine resources particularly mangroves and corals are vulnerable to coastal developments including coastal reclamation and human settlements that discharge large quantities of wastes into the seas Climate change impacts such as increased salt intrusion and sea level rise may additionally induce regime shifts detrimental to these delicate ecosystems And the warmer climate has increased the frequency duration and intensity of catastrophic coastal disturbances implicating profound uncertainty to the sustainability of coastal infrastructures and resources essential for human populations This book is written for students researchers and practitioners pursuing teaching and research related to sustainable development and the United Nations Sustainable Development Goals UNSDGs It provides a unique approach on sustainable development viewed from the perspectives of providing solutions via model simulation to solve sustainable development issues related to human population growth and impacts due to climate change It provides the scientific knowledge and technical skills necessary to achieve valuable insights for mitigating the predicted adverse impacts and for developing sustainable development strategies incorporating climate and environmental adaptations *Coastal, Harbour and Ocean Engineering* P. V. Timbadiya,M. C. Deo,Vijay P. Singh,2023-06-05 This book comprises the proceedings of the 26th International Conference on Hydraulics Water Resources and Coastal Engineering HYDRO 2021 focusing on broad spectrum of emerging opportunities and challenges in the field of coastal harbor and ocean engineering It covers a range of topics including but not limited to coastal disasters including tsunamis cyclones and storm surges sea level rise coastal structures and oceanography wave structure interaction etc Presenting recent advances in the form of illustrations tables and text it offers readers insights for their own research In addition the book addresses fundamental concepts and studies in the field of coastal harbor and ocean

engineering making it a valuable resource for both beginners and researchers wanting to further their understanding of hydraulics water resources and coastal engineering

The Mangroves of Southeast Asia in the United Nation's Decade on Ecosystem Restoration Severino III Salmo, Kangkuso Analuddin, Richard MacKenzie, Sahadev Sharma, 2024-01-30 *Participatory Mangrove Management in a Changing Climate* Rajarshi DasGupta, Rajib Shaw, 2017-01-24 This book outlines the performance and management of mangroves in the changing climatic scenario of the Asia Pacific region and draws examples and lessons from the national and community driven mangrove conservation programs of relevant countries including Pakistan India Bangladesh Sri Lanka Myanmar Thailand Cambodia Indonesia the Philippines and Japan as well as the Pacific islands By highlighting the major drawbacks that hinder effective mangrove conservation the book contributes towards enhancing climate resilience of communities through proposition of corrective methods and ameliorative approaches of mangrove conservation Mangroves play an important role in adapting to climate change and provide a plethora of ecosystem services that are fundamental to human survival Yet these ecosystems are exceptionally prone to extinction due to increased human interventions and changes in environmental boundary conditions Especially in the Asia Pacific region mangroves have dwindled at an exceptional high rate over the past three decades As the threat of climate change hovers over millions of people in this region particularly those who crowd the low lying coastal areas conservation restoration of mangroves through appropriate policies and practices remain highly imperative The primary target readers for this book are students and researchers in the fields of conservation and management of mangroves especially from the developing tropical countries of the Asia Pacific region Other target groups comprise policy planners practitioners and NGO workers who will be able to apply the collective knowledge from this work towards proactive mangrove conservation through effective mediation in local communities

Dynamic Sedimentary Environments of Mangrove Coasts Daniel Friess, Frida Sidik, 2020-12-05 Dynamic Sedimentary Environments of Mangrove Coasts provides knowledge on the importance of sedimentary dynamics in managing mangrove forests In the first part of the book the editors seamlessly offer a general introduction of mangrove sedimentary dynamics This leads into more in depth information on soil surface elevation change sea level rise and the importance of sedimentary dynamics in the loss or gain of blue carbon The book concludes the discussion of mangrove sedimentary dynamics by addressing the issues of climate change e g sea level rise and blue carbon on mangrove restoration and sediment This book will assist coastal managers and academics in addressing the gaps in mangrove restoration and coastal management As such it will be a valuable reference for advanced undergraduate students graduate students researchers academics in the field of coastal restoration and coastal management practitioners Provides a state of the art summary of research into sedimentary dynamics in mangrove forests Includes updates on issues of climate change relevant to mangroves such as blue carbon and sea level rise Presents scientific background and successful case studies for mangrove restoration that can solve problems relating to mangrove management

Climate Change: Conflict and Resilience in the Age of Anthropocene Subodh Chandra Pal,Uday Chatterjee,Asish Saha,Dipankar Ruidas,2025-04-25 This book illustrates a geospatial technology approach to data mining techniques data analysis modelling risk assessment and visualization and management strategies in many elements of natural and societal hazards This book delves into cutting edge techniques based on open source software and R statistical programming Google Earth Engine and modelling in modern artificial intelligence techniques with a particular emphasis on recent trends in data mining techniques and robust modelling in water resource crisis related hazards Furthermore this book also discusses how to manage water resources at various local regional and international levels while incorporating environmental considerations This book contains works that address the connection between climate change extreme events and resilience These works include those that identify and evaluate policies quantify the effects of public interventions climate change on extreme events describe the decision making process and its role in modelling for resilience This book s subjects be of interest to earth and environmental scientists professionals and authorities This book focuses at geospatial modelling and climate change management A relationship between three technologies including remote sensing RS geographic information systems GIS and the R programming environment is acknowledged as particularly effective in this regard This book on the other hand serves as a practical guide to identify the most recent breakthroughs in geospatial and geostatistical approaches and their application in the field of subsurface water induced hazards throughout the world This book is specifically designed to serve the community of Undergraduates Postgraduates and Researchers Policymakers Environmentalists Natural Hazards and Disasters Management NGOs Corporate Sectors Social Scientists and Government Organizations in the fields of Environmental Sciences Geography Hydrology Natural Hazards Geospatial Sciences Remote Sensing GIS Agriculture Crop Science Forestry Soil Science Agronomy Humanistic Social Sciences and so on Sustainable Development Goal 14 - Life Below Water: Towards a Sustainable Ocean Emanuele Di Lorenzo,Christian Lønborg,Jesper H. Andersen,Elva G. Escobar-Briones,Michelle Jillian Devlin,Angel Borja,Marius Nils Müller,Carol Robinson,Alex Ford,Anna Milena Zivian,Ana M. M. Sequeira,Sebastian Villasante,Brett W. Molony,Tomaso Fortibuoni,Simone Libralato,Pierre Failer,2022-03-15

Estuaries: A Lifeline of Ecosystem Services in the Western Indian Ocean Salif Diop,Peter Scheren,John Ferdinand Machiwa,2016-03-22 This book provides recent environmental ecological and hydrodynamic information for the major estuaries and the coastal marine systems of the Western Indian Ocean Region It covers various functions and values of the region s estuarine ecosystems and their respective habitats including the land ocean interactions that define and impact ecosystem services The Western Indian Ocean region covered by this volume consists of the continental coastal states of Kenya Mozambique South Africa and Tanzania and the island states of Madagascar Mauritius Seychelles and Comoros

Confronting Climate Change in Bangladesh Saleemul Huq,Jeffrey Chow,Adrian Fenton,Clare Stott,Julia Taub,Helena Wright,2019-02-07 Due to its vulnerability to a wide variety of climate change impacts Bangladesh has become a laboratory

for adaptation and resilience strategies in the developing world The knowledge shared by experienced practitioners who have a deep understanding of the complex context of this country is an invaluable resource The International Centre for Climate Change and Development has brought together a host of experts across multiple disciplines to provide a detailed look at Bangladesh's ongoing struggle to prepare for the inevitable threats that climate change poses This volume presents public policy oriented strategies across numerous sectors including agriculture freshwater management forests finance human rights health systems flood control infrastructure solar energy and more Successes and shortcomings both provide useful lessons for other countries grappling with similar climate threats This book offers the latest research findings for a wider audience Showcasing the wealth of experience with adaptation and resilience in Bangladesh Drawing from expert practitioners across the numerous sectors affected by climate change Highlighting key lessons for other Least Developed Countries

Revealing Ecosystem Services Through Geospatial Technologies Onesimo Mutanga, Prem Chandra Pandey, Sandipan Das, Uday Chatterjee, 2025-08-30 This book covers the quantification of forests grasslands and woodlands ecosystem services from the supply side e.g. regulatory and provisioning services to the demand side including human cultural needs The Millennium Ecosystem Assessment MA 2005 defines ecosystem services as simply the benefits that are derived from ecosystems for human well being Board 2005 The report has documented that ecosystems have contributed more than 50% of the world's GDP However as a result of climate change and anthropogenic impacts about 60% of the world's ecosystem services have been degraded This significant reduction of services has serious consequences on food production climate regulation and net primary production among other services which directly affect human well being In order to appreciate the benefits of various ecosystems to humanity and monitor their degradation a systematic quantification of ecosystem services and their change in both time and space is critical In particular there is a need to characterize the ecological infrastructures processes and ecosystem functions that underpin the ecosystem services in ways that can be evaluated and tracked Potschin and Haines Young 2016 In addition various intervention measures to restore degraded ecosystems require constant and accurate measurement of the ecosystem characteristics in order to assess the benefits of ecological restoration Vegetation in particular provides a number of provisioning forage production food regulatory climate temperature supporting primary production nutrient cycling and cultural educational recreation ecosystem services as well as biodiversity maintenance Masenyama et al 2022 Remote sensing data contributes significantly to mapping modeling and quantitative valuation of the ecosystem services in a spatially explicit manner It provides an opportunity to use standard protocols at various spatial scales as well as wall to wall mapping of phenomena through time which is critical for monitoring on a continuous basis

Mangroves for Building Resilience to Climate Change R.N. Mandal, R. Bar, 2018-12-07 This valuable book is a comprehensive volume on mangroves with information accessible to both botany professionals and students It provides an easy method of identifying mangroves and distinguishing one species from another What is a mangrove and what

are the criteria of mangroves are explained along with descriptions of distinctions among major mangroves mangrove associates mangrove halophytes and back mangals Many photos and illustrations are provided showing the visible features of mangroves The volume also covers a range of other topics including habitats and climatic conditions morphological and reproductive features how climate change is affecting mangroves and methods of mitigation and conservation This book is about mangroves the intertidal coastal forests that struggle every moment against hungry tides because mangroves flourish at the interface zone of land and sea Like an evergreen forest in the tropical and subtropical regions of the world mangroves form definite coastal vegetation providing protection to people living in such fragile zones against the occurrence of frequent natural calamities Key features Introduces important facts about mangroves definition early records of mangroves categorization and more Looks at the distribution of mangroves worldwide along with features of mangrove habitats and climatic conditions Describes the ecology and environmental conditions particularly the concept of intertidal zones along estuary positions where tidal flows inundate mangroves Discusses the distinct morphological attributes and reproductive phenology of major mangroves Details the attributes of mangroves covering a total of 78 species of intertidal flora including 32 true mangroves along with their diagnostic features salient attributes and illustrations for easy identification Highlights the burning environmental issue of climate change and its impact on mangroves Provides a variety of methods of restoration conservation and protection of mangroves *Mangroves: Ecology, Biodiversity and Management* Rajesh P.

Rastogi, Mahendra Phulwaria, Dharmendra K. Gupta, 2021-10-01 Mangroves are one of the most productive and biologically important blue carbon ecosystems across the coastal intertidal zone of earth In the current scenario of serious environmental changes like global warming climate change extreme natural disasters mangrove forests play a vital role in mitigating greenhouse gas emissions and maintaining ecosystem balance Mangroves are unique ecosystems with rich biological diversity of different taxonomic groups exhibiting great ecological and commercial importance The book consolidates existing and emerging information on ecology of mangroves with a special reference to their biodiversity and management It emphasizes on the role of mangroves in providing various ecological services The book is a comprehensive compilation covering all aspects of mangrove ecology It is useful for students and researchers in ecology plants sciences and environmental sciences Assessing, Mapping and Modelling of Mangrove Ecosystem Services in the Asia-Pacific Region

Rajarshi Dasgupta, Shizuka Hashimoto, Osamu Saito, 2022-09-13 This book presents the state of the art of knowledge in assessing mapping and modeling mangrove ecosystem services and outlines various scientific tools and techniques including environmental scenario building spatial and econometric modelling to understand the fluctuations and future availability of mangrove ecosystem services The book also highlights the current gaps and measures in policy planning and outlines the avenues for capacity building Through case studies and thematic reviews the book plans to cater to a wide range of audiences including students researchers and decision makers at various levels involved in mangrove conservation and land

use optimization for sustainable and resilient development This book is particularly useful to researchers and students in the field of landscape and spatial ecology coastal zone management ecosystem services and resilience planning It is also a must read for policymakers conservators coastal zone managers foresters and general administrators in understanding the current and future roles of mangroves in ecosystem based adaptation through informed decision making *Proceedings of the Pacific Regional Workshop on Mangrove Wetlands Protection and Sustainable Use* ,2002 *Ecohydrology of Kerala* Salom Gnana Thanga Vincent,Tim C. Jennerjahn,Soman Kunjupillai,Srikumar Chattopadhyay,2024-11-13 *Ecohydrology of Kerala* River Catchments and Coastal Backwaters presents 20 years of research to provide suggestions for sustainable management solutions for issues surrounding the urbanization of the rivers of Kerala This helps identify major issues and develop management strategies Themes explored include biogeochemistry of rivers estuarine systems productivity and trophic status biology fauna and flora biodiversity threats and conservation invasive species and impact on riverine ecology landscape land use land cover change in the catchment socioeconomic status of catchment population economic and livelihood activities along the river courses estuaries river and estuarine tourism sand extraction fisheries pollution monitoring and assessment impacts of climate change and more This book can be used as a tool in the holistic management of resources and to devise proper mitigation measures The content of the book is a model for other tropical regions and countries with rapidly developing economies and populations Presents spatial maps and easy to follow figures in each chapter aiding in a foundational understanding of the topic Provides a fully comprehensive overview including biogeochemistry ecology productivity livelihood socioeconomic aspects and governance of the rivers Includes specific cases of ecohydrology in the river basin especially from rivers and coastal lakes of Kerala **Mangrove Ecosystems: A Global Biogeographic Perspective** Victor H. Rivera-Monroy,Shing Yip Lee,Erik Kristensen,Robert R. Twilley,2017-11-03 This book presents a comprehensive overview and analysis of mangrove ecological processes structure and function at the local biogeographic and global scales and how these properties interact to provide key ecosystem services to society The analysis is based on an international collaborative effort that focuses on regions and countries holding the largest mangrove resources and encompasses the major biogeographic and socio economic settings of mangrove distribution Given the economic and ecological importance of mangrove wetlands at the global scale the chapters aim to integrate ecological and socio economic perspectives on mangrove function and management using a system level hierarchical analysis framework The book explores the nexus between mangrove ecology and the capacity for ecosystem services with an emphasis on thresholds multiple stressors and local conditions that determine this capacity The interdisciplinary approach and illustrative study cases included in the book will provide valuable resources in data information and knowledge about the current status of one of the most productive coastal ecosystem in the world *A Framework for Future Training in Marine and Coastal Protected Area Management* ,1998 *Aquatic Biomes* Germano Leão Demolin-Leite,2025-03-28 *Aquatic Biomes* Global Biome Conservation

and Global Warming Impacts on Ecology and Biodiversity explores the effects of anthropogenic activities on Earth's aquatic biomes, species, and climate. It summarizes operational and potential monitoring tools to conserve or recover aquatic biomes at global scale. Written by international experts in ecology and biodiversity conservation, this book identifies the challenges and threats to aquatic organisms and connects them to real cases of conservation. *Aquatic Biomes: Global Biome Conservation and Global Warming Impacts on Ecology and Biodiversity* is an important resource for students, professors, researchers, governmental and non-governmental organizations active in biodiversity conservation and climate change mitigation, seeking guidance on the best practices for aquatic biome conservation. Discusses the decline and conservation of the world's major aquatic biomes. Provides the use of ecological indicators to analyze the conditions of aquatic biomes with a global perspective. Spans lakes, rivers, wetlands, estuaries, coasts, and oceans. Highlights the work of researchers whose expertise includes estuaries, polar oceans, and global warming perspectives.

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