1. Record Nr. UNINA9910595045103321

Titolo	Assessing, Mapping and Modelling of Mangrove Ecosystem Services in the Asia-Pacific Region / / edited by Rajarshi Dasgupta, Shizuka Hashimoto, Osamu Saito
Pubbl/distr/stampa	Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2022
ISBN	981-19-2738-3
Edizione	[1st ed. 2022.]
Descrizione fisica	1 online resource (295 pages)
Collana	Science for Sustainable Societies, , 2197-7356
Disciplina	574.526325
Soggetti	Landscape ecology Environmental management Sustainability Conservation biology Ecology Biodiversity Landscape Ecology Environmental Management Conservation Biology
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Chapter 1. Envisioning the mangrove future through mapping and modelling of mangrove ecosystem services -- Chapter 2. Monitoring Spatial and Temporal Distribution, Pattern and Trend Prediction of Coastal Mangroves in Pakistan using Geospatial Techniques -- Chapter 3.Assessment of mangrove colonization of aquaculture ponds through satellite image analysis: Implications for mangrove management -- Chapter 4. Ecosystem services and their future scenarios centring on mangrove ecosystem in Ishigaki Island, Japan -- Chapter 5. A participatory stakeholder-based approach to assess the drivers and challenges of mangrove loss in Kochi, Kerala, India -- Chapter 6. Understanding potential drivers of mangrove loss in Bhitarkanika and Mahanadi Delta, India to enhance effective restoration and conservation efforts -- Chapter 7. Advancement in measurement and estimation methods of blue carbon studies -- Chapter 8. Change mapping of

aboveground carbon stocks and ecosystem services in the mangrove forest of Andaman Islands - implications for conservation and Ecosystem-Based Adaptation -- Chapter 9.Depicting Mangrove's Potential as Blue Carbon Champion in Indonesia -- Chapter 10. Eco-engineering and mangrove restoration methods to stabilize earthen embankments and establishing bio-shield against natural disasters: a case study from Sundarban Ramsar Wetland, India -- Chapter 11. Ecosystem Services of Urban Fringe Mangrove Forests: The Case of Tamsui River Estuary Mangrove Forest, Taiwan -- Chapter 12. Diversity and Structural Characteristics of Mangrove Forests in the Southern District of Oriental Mindoro, Philippines -- Chapter 13. Cultural Ecosystem Services of Mangroves: A Review of Models and Methods -- Chapter 14. Capacity-building around indigenous and local knowledge (ILK) systems for effective climate adaptation in the low-lying coasts and small-islands -- Chapter 15. Ecosystemservices and well-being in the Sundarbans of Bangladesh: A multiple evidence base trajectory -- Chapter 16. Fostering Mangrove Ecosystem Services for Resilient Future of the Asia-Pacific: A Knowledge Synthesis.

Sommario/riassunto

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. .