1. Record Nr. UNINA9910644261903321

Titolo	Coasts, Estuaries and Lakes : Implications for Sustainable Development / / edited by N. Jayaraju, G. Sreenivasulu, M. Madakka, M. Manjulatha
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2023
ISBN	3-031-21644-X
Edizione	[1st ed. 2023.]
Descrizione fisica	1 online resource (493 pages)
Disciplina	016.5001 333.917
Soggetti	Oceanography Geomorphology Freshwater ecology Marine ecology Sustainability Ocean Sciences Freshwater and Marine Ecology
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index.
Nota di contenuto	Part1. Coastal, Estuarine and Lake (Brackish) Environments: Introduction, Definition, Processes and Dynamics -- Chapter1. Bibliometric analysis of the literature on coastal sediment pollution -- Chapter2. Coastal flooding in India – An Overview -- Part2. Water quality/ Hydrological Processes -- Chapter3. Appraisal of coastal water quality of two hot spots on Southwest coast of India: A case study of multi-year biogeochemical observations -- Chapter4. Assessment of water quality from the Gundlakamma estuary, Andhra coast, Southeast coast of India -- Chapter5. Evaluation ofPhysico-chemical Parameters of Coastal Water from Pennar River Estuary, East Coast of India: An integrated approach -- Chapter6. Climatic variability and anthropogenic forcing on marine ecosystems: Evidence from the Lakshadweep Archipelago -- Part3. Sediment Characteristics -- Chapter7. Geochemical characterization of suspended sediments in the Nethravati estuary, southwest coast of India: insights to redox

processes, metal sorption and pollution aspect -- Chapter8. Geochemical Studies of Ilmenite from Bhimunipatnam to Konada Coastal Sands, North Andhra Pradesh, East Coast of India -- Chapter9. Study of beach sand from Harihareshwar, Shrivardhan and Diveagar beach of Raigad District, Maharashtra, India -- Chapter10. Impact of Seasonal Sediment Dynamics on Beach Morphology: A case study from the Govindampalli-Durgarajupatnam Coast, East Coast of India -- Chapter11. Heavy Minerals Studies of Coastal Sands from Bavanapadu to Kalingapatnam, Andhra Pradesh, East coast of India -- Chapter12. Mineral Chemistry of Ilmenites as a source indicator for coastal sediments between Vamsadhara and Nagavali river mouth, North Coastal, Andhra Pradesh -- Chapter13. Major and trace elements in the Sediments of the Gollumutta Paya Estuary of the Krishna River, East Coast of India -- Part4. Biodiversity/ Bio-indicators/ ecological studies -- Chapter14. Assessment of Trace Metal contamination in Saccostrea cucullata (Born, 1778) from the coast ff South Andaman Island, India -- Chapter15. Analytical approach of Haematology in variation to physical parameters of Indian Mackerel and Yellowfin Tuna from Indian waters -- Chapter16. Geochemistry of Mollusk Shells as proxies of Marine Pollution, East coast of India -- Chapter17. Sedimentary structures of tidal flats in Recent Chandipur East Coast of Orisha, India -- Part5. Climate Change and Anthropocene -- Chapter18. Coastal Erosion Vulnerability Index: A case study for Kuwaiti Coast -- Chapter19. Total suspended matter variability in response to tropical cyclone Titli along coastal waters of southeast India using satellite observations: Implications to Climate Change -- Chapter20. Climate Change and its Impact on Depletion of Oxygen Levels on Coastal Waters and Shallow Seas -- Chapter21. Nanoparticle based bioremediation for crude oil removal from marine environment -- Part6. Socio-economic scenarios related to Sustainable Development -- Chapter22. Impact of Covid-19 Pandemic on Coastal Tourism of Andaman Isles, India: Sustainable Development Scenario -- Chapter23. Spatial planning for sustainable resource use with a special reference to aquaculture development -- Chapter24. Sustainable Aquaculture and Economic Development in Coastal Areas: The Case of Andhra Pradesh, India -- Chapter25. Marine and Coastal ecosystem services for Sustainable Development -- Part7. Application of Geospatial tools -- Chapter26. Advanced remote sensing methods for high-resolution, cost-effective monitoring of the coastal morphology using Video Beach Monitoring System (VBMS), CoastSnap and CoastSat techniques -- Chapter27. Coastal morpho-dynamics and Environmental variables of Ennore Creek: An Integrated approach -- Chapter28. A study on dynamics of Krishna river mouth, East coast of India: A Geospatial approach -- Chapter29. Non monsoonal coastal erosion due to the tropical cyclone (OCKHI) and it’s impacts along Thiruvananthapuram coast, Southwest coast of India - A geospatial approach .

Sommario/riassunto

This volume discusses geological, biological and sustainability aspects of coastal, estuary and lake environments. It offers a comprehensive understanding of biotic, physico-chemical, sedimentological and socio-environmental factors associated with the sustainable development of these environments in areas vulnerable to climate change and other anthropogenic activities. The book is divided into several main sections, covering the geological and biological processes and dynamics of these environments, water quality and hydrological modeling, sediment characteristics, bio-indicators and ecological analysis, climate change impacts, geospatial applications, and sustainable development practices and scenarios. The book aims to be a useful resource for academics, scientists, coastal and marine

practitioners, meteorologists, environmental consultants and computing experts working in the areas of earth and ocean sciences.