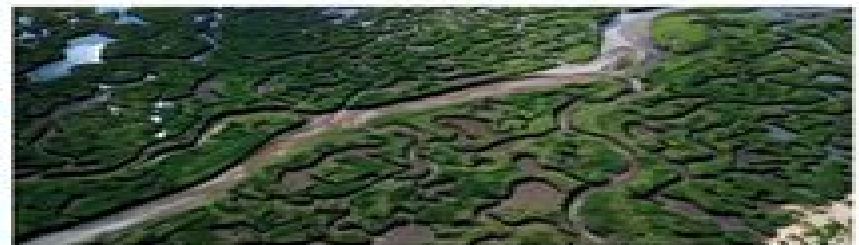




Remote Sensing of Ocean and Coastal Environments



Edited by

Meenu Rani, Kaliraj Seenipandi, Sufia Rehman,
Pavan Kumar, Haroon Sajjad



Earth Observation Series

Coastal Remote Sensing

**Meenu Rani, Kaliraj Seenipandi, Sufia
Rehman, Pavan Kumar, Haroon Sajjad**

Coastal Remote Sensing:

Remote Sensing of Coastal Environments Yeqiao Wang, 2009-12-09 As coastal environments around the world face unprecedented natural and anthropogenic threats advancements in the technologies that support geospatial data acquisition imaging and computing have profoundly enhanced monitoring capabilities in coastal studies Providing systematic treatment of the key developments Remote Sensing of Coastal Enviro Science and Applications of Coastal Remote Sensing Kevin Ross Turpie, Tiffany Kay Moisan, Kristin B. Byrd, Steven G. Ackleson, 2021-06-01 IN MEMORIAL This Research Topic is dedicated to our co editor Dr Tiffany Moisan a well regarded ocean color remote sensing scientist who unexpectedly passed away during its preparation Dr Moisan was a dear friend and upbeat and enthusiastic colleague and a scientist committed to the use of remote sensing to improve our understanding of marine microbiology and phytoplankton ecology She was a strong supporter of the development of remote sensing capabilities and applications for coastal and inland waters and we know that she would have wanted this Research Topic to provide her colleagues an opportunity to share and promote their work in this area A voice in our community is now quiet Let the chorus of our shared song continue with her memory Dr Tiffany Moisan is survived by her loving family including her husband Dr John Moisan and her two daughters **Coastal Remote Sensing** Coastal Services Center (U.S.), 2003 **Remote Sensing of Aquatic Coastal Ecosystem Processes** Laurie L. Richardson, Ellsworth F. LeDrew, 2006-06-11 The aquatic coastal zone is one of the most challenging targets for environmental remote sensing Properties such as bottom reflectance spectrally diverse suspended sediments and phytoplankton communities diverse benthic communities and transient events that affect surface reflectance coastal blooms runoff etc all combine to produce an optical complexity not seen in terrestrial or open ocean systems Despite this complexity remote sensing is proving to be an invaluable tool for Case 2 waters This book presents recent advances in coastal remote sensing with an emphasis on applied science and management Case studies of the operational use of remote sensing in ecosystem studies monitoring and interfacing remote sensing science management are presented Spectral signatures of phytoplankton and suspended sediments are discussed in detail with accompanying discussion of why blue water Case 1 algorithms cannot be applied to Case 2 waters Audience This book is targeted for scientists and managers interested in using remote sensing in the study or management of aquatic coastal environments With only limited discussion of optics and theory presented in the book such researchers might benefit from the detailed presentations of aquatic spectral signatures and to operational management issues While not specifically written for remote sensing scientists it will prove to be a useful reference for this community for the current status of aquatic coastal remote sensing *Land Surface Remote Sensing in Urban and Coastal Areas* Nicolas Baghdadi, Mehrez Zribi, 2016-09-19 For a long time the dynamics of urban and coastal areas have been the focus of administrators and decision makers in charge of public policy in order to better take into account anthropogenic pressure and the impact of climate change This volume presents applications of remote sensing in urban

environments and coastal zones including the use of remote sensing in city planning urban expansion light pollution air quality etc observation of the properties of ocean color the study of coastal dynamics identifying coastlines and estimating sediment balances etc and analysis of the dynamics of mangroves This book part of a set of six volumes has been produced by scientists who are internationally renowned in their fields It is addressed to students engineers Masters PhD engineers and scientists specialists in remote sensing applied to the coastal environment and urban areas Through this pedagogical work the authors contribute to breaking down the barriers that hinder the use of Earth observation data Clear and concise descriptions of modern methods of remote sensing for a variety of applications Explores the most current remote sensing techniques with physical aspects of their measurement theory Presents physical principles measurement and data processing chapters that are provided for each technique described

Remote Sensing Applications in Coastal Environment Pawel Terefenko, Jacek Lubczonek, Dominik Paprotny, 2021-12-20 Coastal regions are susceptible to rapid changes as they constitute the boundary between the land and the sea The resilience of a particular segment of coast depends on many factors including climate change sea level changes natural and technological hazards extraction of natural resources population growth and tourism Recent research highlights the strong capabilities for remote sensing applications to monitor inventory and analyze the coastal environment This book contains 12 high quality and innovative scientific papers that explore evaluate and implement the use of remote sensing sensors within both natural and built coastal environments

Remote Sensing of Ocean and Coastal Environments Meenu Rani, Kaliraj Seenipandi, Sufia Rehman, Pavan Kumar, Haroon Sajjad, 2020-09-27 Remote Sensing of Ocean and Coastal Environments advances the scientific understanding and application of technologies to address a variety of areas relating to sustainable development including environmental systems analysis environmental management clean processes green chemistry and green engineering Through each contributed chapter the book covers ocean remote sensing ocean color monitoring modeling biomass and the carbon of oceanic ecosystems sea surface temperature SST and sea surface salinity ocean monitoring for oil spills and pollutions coastal erosion and accretion measurement This book is aimed at those with a common interest in oceanography techniques sustainable development and other diverse backgrounds within earth and ocean science fields This book is ideal for academicians scientists environmentalists meteorologists environmental consultants and computing experts working in the areas of earth and ocean sciences Provides a comprehensive assessment of various ocean processes and their relative phenomena Includes graphical abstract and photosets in each chapter Presents literature reviews case studies and applications

Remote Sensing Handbook for Tropical Coastal Management Edmund Peter Green, 2000 The Handbook provides a detailed evaluation of what can realistically be achieved by remote sensing in an operational coastal management context It takes the user through the planning and implementation of remote sensing projects from the setting of realistic objectives deciding which imagery will be most appropriate to achieve those objectives the acquisition geometric and radiometric correction of imagery the field

survey methods needed to ground truth the imagery and guide image classification the image processing techniques required to optimise outputs through the image interpretation and evaluation of the accuracy of outputs Linked to the Handbook is a computer based remote sensing distance learning module Applications of satellite and airborne image data to coastal management available free of charge via www.unesco-bilko.org **Coastal Remote Sensing** Coastal Services Center (U.S.),2003 **Remote Sensing and Modeling** Charles W. Finkl,Christopher Makowski,2014-09-01 This book is geared for advanced level research in the general subject area of remote sensing and modeling as they apply to the coastal marine environment The various chapters focus on the latest scientific and technical advances in the service of better understanding coastal marine environments for their care conservation and management Chapters specifically deal with advances in remote sensing coastal classifications environmental monitoring digital ocean technological advances geophysical methods geoacoustics X band radar risk assessment models GIS applications real time modeling systems and spatial modeling Readers will find this book useful because it summarizes applications of new research methods in one of the world s most dynamic and complicated environments Chapters in this book will be of interest to specialists in the coastal marine environment who deals with aspects of environmental monitoring and assessment via remote sensing techniques and numerical modeling

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