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Remote sensing from aircraft and space-based platforms offers unique large-scale synoptic data to address the intricate nature of coastal waters. However, many researchers wishing to apply remote sensing to a dynamic coastal environment are faced with the challenge of learning a technology laden with new and often confusing terminology, data, and methods of processing and analysis.

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Remote sensing of coastal aquatic environments ...
NASA’s Applied Remote Sensing Training Program 34 Waterline for Bathymetry and Coastal Topography • The name refers to the land-sea boundary, or the shoreline, in the intertidal zone. • Is the most widely used technique for constructing intertidal digital elevation models (DEMs) • Combines remote sensing with hydrodynamic modeling

Remote Sensing of Coastal Ecosystems - NASA
Drawing from discussions at a recent workshop on remote sensing of coastal and inland waters (Mouw & Greb, 2012), we provide here a comprehensive review of the current status of and challenges in remote sensing of coastal and inland waters, with recommendations for future satellite missions. The review is focused on aquatic color radiometry covering the spectral range from the ultraviolet (UV) to the shortwave infrared (SWIR) as several key biogeochemical and water quality parameters can be ...

Aquatic color radiometry remote sensing of coastal and ...
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.

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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.

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Very high spatial resolution remote-sensing images and digital elevation models (DEMs) are widely used in coastal management applications. For example, they are used for the quantification of morphosedimentary changes of the coastal fringe, including cross-shore and longshore sediment transport.

Coastal and Environmental Remote Sensing from Unmanned ...

Recent advances in sensor technology and algorithm development enable the use of remote sensing to quantitatively study complex biophysical and biogeochemical processes in open-ocean, estuarine, coastal, and inland waters. However, realizing the operational potential of remote sensing for water quality monitoring has a number of challenges.

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This book provides extensive insight on remote sensing of coastal waters from aircraft and space-based platforms. The primary focus of the book is optical remote sensing using passive instruments, to measure and analyze the coastal aquatic environment. The authors have gathered information from a variety of sources, to help non-specialists grasp ...

Remote Sensing of Coastal Aquatic Environments ...

A review of remote sensing for the assessment and management of tropical coastal resources. Coastal Management 24: 1-40. CLARK, C.D., RIPLEY, H.T., GREEN, E.P., EDWARDS, A.J. and MUMBY, P.J. (1997). Mapping and measurement of tropical coastal environments with hyperspectral and high spatial resolution data.

Research papers in remote sensing of tropical coastal ...

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This book provides extensive insight on remote sensing of coastal waters from aircraft and space-based platforms. The primary focus of the book is optical remote sensing using passive instruments, to measure and analyze the coastal aquatic environment. The authors have gathered information from a variety of sources, to help non-specialists grasp new techniques and technology, to quickly produce useful data

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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.

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

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Optical Properties and Remote Sensing of Inland and Coastal Waters discusses the methodology and the theoretical basis of remote sensing of water. It presents physical concepts of aquatic optics relevant to remote sensing techniques and outlines the problems of remote measurements of the concentrations of organic and inorganic matter in water. It also details the mathematical formulation of the processes governing water-radiation interactions and discusses the development of bio-optical models to incorporate optically complex bodies of water into remote sensing projects. Optical Properties and Remote Sensing of Inland and Coastal Waters derives and evaluates the interrelationships among inherent optical properties of natural water, water color, water quality, primary production, volume reflectance spectra, and remote sensing. This timely and comprehensive text/reference addresses the increasing tendency toward multinational and multidisciplinary climate studies and programs.

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 Environments brings together renowned scholars to supply a clear presentation of the state-of-the-art in this technically complex arena. Edited by a recipient of the prestigious PECASE award, this book provides unrivaled coverage of the issues unique to coastal environments. It presents the best available data for measuring and monitoring coastal zones and explains how decision makers and resource managers can use this data to address contemporary issues in coastal zone management. The text illustrates the latest developments in active remote sensing, hyperspectral remote sensing, high spatial resolution remote sensing, the integration of remote sensing and in situ data, and covers the effects of land-cover and land-use change on coastal environments. Complete with representative case studies, this authoritative resource provides a timely snapshot of the wide range of remote sensing applications in coastal issues to enhance the understanding of how increasing disturbances to our coastal regions are affecting the ecological dynamics, biological diversity, and ecosystem health of our coastal environments.

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.

This book provides extensive insight on remote sensing of coastal waters from aircraft and space-based platforms. The primary focus of the book is optical remote sensing using passive instruments, to measure and analyze the coastal aquatic environment. The authors have gathered information from a variety of sources, to help non-specialists grasp new techniques and technology, to quickly produce useful data

Oceanography is the par excellence interdisciplinary science thanks to its peculiar setting within a fluid environment that makes connections extremely efficient. The oceans connections are well mirrored in the chapters of this book that share a quite explicit multidisciplinary and multi-environmental character. The book provides chapters on very different topics under very different settings, some with a focused angle, others with a broader approach, yet all sharing the idea that we need to understand the small pieces in order to put together the big picture for a much larger mechanism, the functioning of the ocean as a whole.