

## Remote Sensing Of Coastal Aquatic Environments Technologies Techniques And Applications

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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

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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 ...

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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.

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