

# Revue Frontiers in Remote Sensing

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## Monitoring Coastal Wetlands Through Remote Sensing in a Changing Global Environment

Coastal wetlands, including mangroves, salt marshes, seagrass beds, and shallow coastal water bodies, are invaluable ecosystems facing threats from human activities and climate change. These habitats support biodiversity and mitigate floods. This Research Topic aims to explore advanced remote sensing techniques to enhance the monitoring, management, and conservation of coastal wetlands. Specifically, the objectives are: 1. To optimize the management and integration of multi-sensor satellite data to gain deeper insights, enable accurate decision-making, and improve predictions regarding coastal wetland ecosystems; 2. To leverage artificial intelligence methods to enhance the accuracy and reliability of satellite image processing and analysis for coastal wetlands, supporting their sustainable management; 3. To investigate innovative approaches utilizing multi-sensor data, including in-situ, proximal, and remote sensing, to monitor these vulnerable coastal ecosystems continually.

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