Special Issue

Sediment Dynamics and Related Bio-Physical Interactions of Coastal Wetlands

Message from the Guest Editor

Coastal wetlands (tidal flats, salt marshes, and mangrove swamps) are typically composed of hydrographic net, fine-grained sediments, and diverse organisms. Sediment erosion, transport, and deposition in coastal wetlands are very frequent and active. Sediment dynamics usually influences and is influenced by benthic communities in coastal wetlands. Coastal wetlands worldwide are under a great deal of pressure from the dual forces of sea-level rise and human intervention. The conservation and restoration of coastal wetlands must be based on in-depth understanding of processes and mechanisms of morphological evolution and bio-physical interactions. Recent advancements in techniques for in situ observation (e.g., acoustic and optical instruments, pressure sensors, real-time kinematic GPS units) and monitoring (remote sensing, unmanned aerial vehicles) enable us to obtain high-resolution datasets of currents, waves, suspended sediment concentrations, bed-level changes, and evolution of vegetation cover, which are expected to improve[...]

For further reading, please follow the link to the Special Issue Website:
https://www.mdpi.com/journal/water/special_issues/coastal_wetland

Guest Editor

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Message from the Editor-in-Chief

In the context of global changes, the sustainable management of water cycles, going from global and regional water cycles to urban, industrial and agricultural water cycles, plays a very important role on the water resources and on their relationships with food, energy, biodiversity, ecosystem functioning and human health. *Water* invites authors to provide innovative original full articles, critical reviews and timely short communications and to propose special issues devoted to new technological and scientific domains and to interdisciplinary approaches of the water cycles. We ensure a critical review process and a quick turnaround between submission and final decision.

Editor-in-Chief

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