Special Issue

New Insights into Sea Level Dynamics and Coastal Erosion

Message from the Guest Editors

Coastal storms and sea-level rise are widely recognized as increasingly severe threats to coastal communities and ecosystems. Intensive scientific studies on sea-level dynamics and coastal geomorphology are revealing complex sedimentologic, vegetative, and anthropogenic responses that vary over space and time. However, tipping points, thresholds, and non-linearities in the evolution of coastal systems continue to cloud our ability to forecast evolution in these dynamic settings. To improve our understanding of coupled natural-human dynamics on coasts, it becomes attractive to develop conceptual frameworks, numerical models, and diverse observational approaches. Concomitantly, enormous volumes of data from Earth observations, in situ sensors, and Uncrewed Autonomous Systems (UAS) are proving valuable for data-based analyses and validation of modeling and simulation. There is a need for the synthesis of short- and long-term processes for sustainable coastal development, which presents a demand and opportunity to bring together the current theory, practice, and methodological advances in coastal systems.

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Deadline for manuscript submissions

closed (20 July 2025)

Water

an Open Access Journal by MDPI

Impact Factor 3.0
CiteScore 6.0

mdpi.com/si/198673

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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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