

Special Issue

Coastal Hydrology and Climate Change: Challenges and Solutions

Message from the Guest Editors

This Special Issue aims to explore the complex interplay between climate change, nutrient dynamics, and coastal hydrology. With climate change, rising sea levels, saltwater intrusion, and crop yield reduction increasingly threatening coastal ecosystems and economies worldwide, understanding the drivers contributing to these impacts is more critical than ever. It seeks high-quality research and review articles that examine the impacts of climate change on water resources, nutrient cycling, the role of anthropogenic nutrient enrichment, and how coastal hydrology contributes to water degradation. We welcome submissions from a wide range of disciplines, including (i) hydrology, (ii) climate change, (iii) human resilience under changing climate, (iv) coastal processes, (v) nature-based solutions, (vi) environmental economics, and (vii) sustainable coastal ecosystem. Keywords: climate change; nutrient enrichment; coastal hydrology; sustainable water management; anthro-pogenic impacts; saltwater intrusion; coastal resilience; nature-based solutions; environmental economics; water resource degradation

Guest Editors

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Deadline for manuscript submissions

closed (31 December 2025)



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About the Journal

Message from the Editor-in-Chief

Humans have an enduring love of the sea, a love that is expressed most fervently in a narrow strip where the oceans meet the land: our planet's coasts. Today's coasts face a formidable plethora of anthropogenic pressures that can, if unfettered, hollow out the very fabric and ecological resilience that feed humanity's 'appetite' for coasts in addition to the critical ecosystem services that they provide. Conserving, restoring, and managing the foibles of rapacious coastal love are not trivial tasks: they require us to truly understand how coastal systems work. This is the chief motivation of this journal.

Topics: field observations, manipulative field or laboratory experiments, modeling, theoretical advances, etc. *Coasts* encourages diversity and critical thinking in all forms.

Editor-in-Chief

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