Special Issue

Hydrodynamics and Climate Impacts in Coastal Seas: Processes, Modeling, and Projections

Message from the Guest Editors

Coastal seas are experiencing rapid transformations due to the combined effects of natural variability and climate change. As sea levels rise, temperatures shift, and circulation patterns evolve, the behavior of coastal systems changes. Understanding these changes is critical for managing the risks posed to coastal ecosystems, infrastructure, and communities. This Special Issue, "Hydrodynamics and Climate Impacts in Coastal Seas: Processes, Modeling, and Projections," invites high-quality contributions that address the physical processes driving coastal dynamics and their responses to climate forcing. We welcome studies that employ observational data, numerical modeling, theoretical analysis, and interdisciplinary approaches to explore circulation, mixing, salinity intrusion, sea-level trends, and sediment transport. Special emphasis will be placed on innovative modeling techniques, ensemble projections, machine learning applications, and the integration of physical and biogeochemical systems. This Special Issue also seeks to highlight research that supports coastal resilience and adaptation strategies through improved forecasting and scenario analysis.

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Message from the Editor-in-Chief

The *Journal of Marine Science and Engineering* (*JMSE*; ISSN 2077-1312) is an international peer-reviewed open access journal which provides an advanced forum for studies related to marine science and engineering. The journal aims to provide scholarly research on a range of topics, including ocean engineering, chemical oceanography, physical oceanography, marine biology and marine geosciences. We invite you to publish in our journal sharing your important research findings with the global ocean community.

Editor-in-Chief

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