

Special Issue

Simulation and Numerical Analysis of Storm Surges

Message from the Guest Editors

Developing computer models for simulating hurricane storm surges is critical to assessing and improving the resilience of coastal communities. Results such as inundation patterns and wave characteristics produced by these models are used in coastal engineering, evacuation studies, damage assessments, infrastructure planning, and emergency management. This Special Issue offers a platform to publish advances in the development, validation, and computation of numerical hydrodynamic models focused on hurricane storm surge simulations. We welcome manuscripts focused on mesh development, topobathymetric characterization of the domain, nodal attributes and parameters, interpolation methods, the characterization of forcing mechanisms, innovative validation techniques and metrics, sensitivity analyses, and any other topic related to numerical storm surge modeling worldwide. Manuscripts focused on machine learning, artificial intelligence, and remote sensing are welcome but they must explicitly describe how the use of those technologies supports numerical simulations.

Guest Editors

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Deadline for manuscript submissions

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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

Dr. Jean-Luc PROBST

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