

Special Issue

Advances in Coastal Zone Research: Meteorological Hazards and the Environment

Message from the Guest Editors

The hazards of meteorological changes appear in various forms on the Earth's surface. In particular, many natural disasters such as wave deformation, storm surges, wave overtopping, and coastal erosion/deposition due to changes in the weather force are continuously repeated on the coast. We invite the submission of original research articles and reviews on any aspect of atmosphere–sea interactions on the coastal zone, including (but not limited to) extreme waves, wave deformation, rip currents, storm surges, meteotsunamis, wave overtopping, erosion, and deposition and so on, and their variations across space and time. We encourage studies using the most recent technology such as big data analyses informed by ocean weather buoys, extreme wave predictions using AI, real-time forecasting storm surges and/or wave overtopping, and numerical modeling focusing on the coastal zone air–sea interactions. We also welcome studies in observational and reanalysis data to address long-term variations of coastal zone environment due to atmospheric changes.

Guest Editors

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Deadline for manuscript submissions

closed (27 May 2022)



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About the Journal

Message from the Editor-in-Chief

Continued developments in instrumentation and modeling have driven atmospheric science to become increasingly more complex with a deeper understanding of concepts, mechanisms, and interactions. This is the field that innovation built and it has led to a better appreciation for the complexity with atmosphere. Human life is intertwined in this complexity as we strive to better understand our atmosphere. Climate change is constantly stretching the limits of our thinking and forcing new ideas and concepts to be played out. Welcome to the Anthropocene!

Editor-in-Chief

Dr. Daniele Contini

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