

Risk and Hazard in the Coastal Ocean

Guest Editor:

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Message from the Guest Editor

Dear colleagues,

Risks, the potential for relevant losses caused by hazards, are an intrinsic part of coastal and ocean activity. Several physical events modify the coastal zone; coastal hazard assessments require the characterization of their magnitude, and spatial and temporal extent. Hazards to coastal communities can combine surge driven meteorologically. Additionally, extreme events damage infrastructure along the coastlines and can have severe impacts on coastal populations and associated socioeconomic activities. Intense storms also affect maritime activities. Recently, the development of early warning systems has mitigated some of the risks associated with coastal hazards and has helped inform management decisions. The nature and intensity of coastal ocean hazards keeps evolving affected by human activities and interventions and by changing environmental conditions such as sea level rise and storm intensification under climate change.

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