



Advances in Physical Oceanography: Monitoring and Modelling of the Physical Processes in Coastal Ocean

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Message from the Guest Editors

Dear Colleagues,

The coastal ocean, the area extending from estuarine mouths and surf zones to the continental slope, is the interface between fresh waters and salt waters and the domain where the coastal waters meet the open ocean fluxes.

This domain, complex in both space and time, is under continuous anthropogenic and physical pressures, as many Sustainable Development Goals (SDGs) address the environmental and socio-economic challenges facing the coastal ocean on a global scale.

Climate change, sea level rise and related extremes are affecting not only the physical processes taking place in coastal waters, but also the population and environmental resilience of coastal regions.

Therefore, more comprehensive knowledge on the best ways to monitor, describe, understand and predict the physical processes of the coastal ocean is urgently needed, especially for long-term climate change predictions.

This Special Issue will collect and present recent research detailing monitoring and modeling efforts for various physical processes in the coastal ocean.

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Guest Editors

Special Issue



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Message from the Editor-in-Chief

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