Special Issue

Estuarine, Coastal Circulation and Exchange Processes

Message from the Guest Editors

Estuarine and coastal regions are dynamic interface areas where land, water and atmosphere interact in a balance constantly changed by natural and anthropogenic influences. Understanding the processes of estuarine circulation and transport is critical to study the dynamics of these systems. The controlling mechanisms of such processes vary according to estuary type, tidal, river and meteorological forcing factors that have a major role in the mechanisms of physical change, exchange flow between the estuary and the coast, primary production and water quality. The interaction between the estuary and the coast is controlled by the persistent inflow of salty water and outflow of fresher water from the mixing region of estuaries. This interaction controls heat and salt transport, residence time or biogeochemical gradients inside estuaries. All these processes can be studied using high-resolution numerical models and in-situ and remote sensing data. Here, we propose a Special Issue to cover these topics, highlighting numerical model implementations and observational studies of hydrodynamic and water quality processes along the salinity gradient of the estuary-coastal continuum.

Guest Editors

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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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