

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

Dr. Nuno Vaz
Prof. Dr. João Miguel Dias
Dr. Magda Catarina Sousa

Deadline for manuscript submissions

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*Journal of Marine Science and
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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
jmse@mdpi.com

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About the Journal

Message from the Editor-in-Chief

Journal of Marine Science and Engineering (JMSE, ISSN: 2077-1312) focuses on research in the fields of Ocean Engineering, Coastal Engineering, Physical Oceanography, Geological Oceanography, Marine Biology, and Marine Environmental Science. It publishes reviews, regular research papers, and short communications, as well as Special Issues on particular subjects. Our aim is to encourage scientists to publish their experimental and theoretical results in as much detail as possible. There is no restriction on the maximum length of the papers.

Editor-in-Chief

Prof. Dr. Charitha Pattiaratchi

School of Engineering, The UWA Oceans Institute, The University of Western Australia, Perth, WA 6009, Australia

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