

Special Issue

Dynamics of Micro-Tidal Bays and Estuaries

Message from the Guest Editors

Estuaries and coastal bays control the exchanges between riverine and oceanic systems. The study of these systems usually requires multidisciplinary approaches. Estuaries are subject to intense mixing dynamics that control their ecological and sediment characteristics. This Special Issue will provide a collection of original research articles on recent advances in observations, modeling, and analyses in micro-tidal coastal bays and estuarine systems. Topic areas include:

- Observations in estuaries and bays
- Numerical modelling of estuarine dynamics and ecosystems
- Circulation in shallow environments
- Coastal bays and estuarine circulation
- Wave, tidal and storm forcing of semi-enclosed environments
- Mixing in estuaries
- Inlet hydrodynamics and morphodynamics
- Estuarine response to climate change
- Water quality and light conditions
- Residence, flushing and other hydrodynamic time parameters
- Dynamics around estuarine turbidity maxima
- Sedimentary processes and morphodynamics in estuaries and bays

Guest Editors

Dr. Alfredo L. Aretxabaleta

Woods Hole Coastal and Marine Science Center, U.S. Geological Survey, Woods Hole, MA 02543, USA

Dr. Manel Grifoll

Laboratori d'Enginyeria Marítima, Universitat Politècnica de Catalunya BarcelonaTech (UPC), Barcelona, Spain

Deadline for manuscript submissions

closed (28 February 2020)



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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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Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.5 days after submission; acceptance to publication is undertaken in 2.5 days (median values for papers published in this journal in the second half of 2025).