



Hydrodynamics and Mixing Processes in Estuaries and Lagoons

Guest Editor:

Dr. Ana Picado

Physics Department, CESAM,
University of Aveiro, 3810-193
Aveiro, Portugal

Deadline for manuscript
submissions:

closed (10 August 2022)

Message from the Guest Editor

Dear Colleagues,

Estuaries and lagoons represent some of the most dynamic interfaces on Earth, at the boundary between land and open sea, and support some of the most diverse and productive habitats. Their circulation is mainly determined by the fluvial inflow and the introduction of seawater through tidal currents and turbulent mixing. The nature of the mixing depends on the system's morphological characteristics, the magnitude of freshwater discharge, and tidal forcing. Therefore, the understanding of coastal system circulation and salinity patterns is a necessary step towards the development of sound management practices.

Contributions should focus on estuaries and lagoon circulation, transport and mixing, hydrodynamic and hydrographic characteristics (tidal propagation, tidal currents, tidal asymmetries, water salinity, water temperature), salt intrusion and freshwater inflow, mixing processes, stratification, transport timescales (residence time, freshwater fraction).

Dr. Ana Picado

Guest Editor





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Prof. Dr. Charitha Pattiaratchi
Oceans Graduate School and The
UWA Oceans Institute, The
University of Western Australia,
Perth, WA 6009, Australia

Message from the Editor-in-Chief

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*Journal of Marine Science and
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MDPI, Grosspeteranlage 5
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