

## Special Issue

# Advances in Coastal Hydrodynamic and Morphodynamic Processes under a Changing Climate

### Message from the Guest Editors

Beaches are one of the most dynamic environments on earth. Changes in beach morphology (morphodynamics) are based on complex process–response mechanisms operating at various spatio-temporal scales, which are not yet comprehensively understood. Simultaneously, beaches form the first line of defense against marine inundation and flooding, providing effective protection to the coastal populations, infrastructure assets, and the other coastal environments they front. This is a phenomenon that is expected to proliferate in the future under the anticipated changes in hydrodynamic forcing (mean and extreme sea levels). Thus, understanding beach morphodynamics and providing effective solutions for appropriate coastal protection schemes has now become an urgent issue. This Special Issue aims to compile the latest, most fascinating research and innovative approaches in the field of beach morphodynamics, focusing on coastal resilience and sustainability. The submission of high-quality papers for publication is encouraged in order to disseminate the articles freely for research, teaching, and reference purposes.

---

### Guest Editors

Dr. Chatzipavlis Antonis

1. Department of Marine Sciences, University of the Aegean, University Hill, 81100 Mytilene, Greece
2. Department of Physics and Earth Sciences, University of Ferrara, 44122 Ferrara, Italy

Dr. Simone Simeone

Institute for the Study for Anthropic Impact and Sustainability in the Marine Environment, National Council of Research–CNR IAS, Rome, Italy

---

### Deadline for manuscript submissions

closed (5 February 2026)



## Journal of Marine Science and Engineering

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.8  
CiteScore 5.0



[mdpi.com/si/182267](https://mdpi.com/si/182267)

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

[mdpi.com/journal/  
jmse](https://mdpi.com/journal/jmse)





# Journal of Marine Science and Engineering

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.8  
CiteScore 5.0



[mdpi.com/journal/  
jmse](https://mdpi.com/journal/jmse)



## 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

---

### Author Benefits

#### High Visibility:

indexed with Scopus, SCIE (Web of Science), Ei Compendex, GeoRef, Inspec, AGRIS, and other databases.

#### Journal Rank:

JCR - Q2 (Engineering, Marine) / CiteScore - Q2 (Ocean Engineering)

#### 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).