

## Special Issue

# Prediction of Weather and Climate Effects on Integrated Watershed, Estuarine, and Coastal Ocean Dynamics

### Message from the Guest Editor

The Low-Elevation Coastal Zone (LECZ) is home to over 10% of the planet's human population and covers 13% of the global urban space. Our Estuaries have been among the most productive ecosystems of the world since primeval times. The Coastal Ocean provides critical habitat to over 90% of all known marine species. Climate change indicators attest alarming alterations of these environments that affect life and property of our human communities that live on the LECZ and utilize its surrounding coastal resources. Therefore—and in order to inform smart, adaptive management strategies and conservation initiatives—predictions and projections of the coastal zone's physical space and ecosystems need to utilize comprehensive, unified energy flow models that integrate the macroscopic, synoptic and ecosystem level to the detailed level of human engineering. This special issue is launched to provide a compilation of current state of the art and future perspectives in the Prediction of Weather and Climate Effects on Integrated Watershed, Estuarine, and Coastal Ocean Dynamics.

---

### Guest Editor

Dr. Nickitas Georgas

Davidson Laboratory, Civil, Environmental, and Ocean Engineering Department, Stevens Institute of Technology, Castle Point on Hudson, Hoboken, NJ 07030, USA

---

### Deadline for manuscript submissions

closed (31 May 2017)



## Journal of Marine Science and Engineering

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.8  
CiteScore 5.0



[mdpi.com/si/8031](http://mdpi.com/si/8031)

*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/](http://mdpi.com/journal/)

[jmse](http://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).