

Special Issue

Oceanic and Marine Circulation: Numerical Modelling and Analysis of Observations

Message from the Guest Editor

This issue aims to cover different aspects of oceanic and marine circulation in the context of numerical simulation and analysis of observations, and, most desirably, a combination of these two approaches. The authors can focus on original numerical methods, techniques of data collection and processing, as well as the implementation of all these tools for the investigation of physical processes with possible scientific results. Moreover, problems around climate and climate change can be considered with respect to the ocean as the most inertial and accumulative element of the Earth climate system. Further, sea ice is a very important part of the cryosphere concerning the ocean, and we welcome papers on different aspects of sea ice studies. Keywords

- oceanic and marine circulation
- sea ice
- numerical simulation
- ocean modelling
- air-sea interaction
- large-scale and synoptic oceanic processes
- oceanic turbulence parameterizations
- operational oceanography
- observational data analysis

Guest Editor

Dr. Anatoly Gusev

Marchuk Institute of Numerical Mathematics of the Russian Academy of Sciences, Moscow 119333, Russia

Deadline for manuscript submissions

closed (5 March 2023)



Journal of Marine Science and Engineering

an Open Access Journal
by MDPI

Impact Factor 2.8
CiteScore 5.0



mdpi.com/si/134507

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

mdpi.com/journal/

[jmse](https://www.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).