

Special Issue

Reviews in Physical Oceanography

Message from the Guest Editors

In the last few decades, prodigious efforts have been made in the field of physical oceanology to better understand and quantify phenomena as varied as ocean currents and their climatic impact, or sediment transport and estuarine oceanography, computational fluid dynamics. A key issue is the deepening of our knowledge of the functioning of the climate system, which covers ocean/atmosphere interactions with the highlighting of positive and negative feedbacks resulting from both the evolution of ocean currents and moist adiabatic and water vapor in the atmosphere, keys to the climate response to anthropogenic forcing. Another outstanding issue focuses on coastal and estuarine oceanography with sediment transport, pollutant dispersion, as well as the evolution of beach morphodynamics. We envision manuscripts reviewing coastal oceanography, ocean/atmosphere dynamics and climate, wave dynamics, CFD, and online sensors. Reviews in emerging fields such as marine big data analysis, artificial intelligence in marine science, underwater wireless communication, impact of ocean Rossby waves on the climate, enlightening large-scale physical processes and interactions are also welcomed.

Guest Editors

Dr. Jean-Louis Pinault

Independent Scholar, 96, Rue du Port David, 45370 Dry, France

Prof. Dr. Georgios Sylaios

Department of Environmental Engineering, Democritus University of Thrace, 67100 Xanthi, Greece

Deadline for manuscript submissions

closed (10 April 2023)



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Journal of Marine Science and Engineering
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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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).