

Special Issue

Ocean Climate: Deep Learning, Statistical Methods and Dynamical Modeling

Message from the Guest Editors

Nowadays, MDL is playing increasingly important roles in almost every field. Particularly, in fields such as marine science and engineering, which have a strong applied nature, MDL is a very powerful tool, and its development and application have become hot topics. On the one hand, the dynamical model-based reanalysis extends data sources for MDL. On the other hand, high-precision dynamical modeling needs MDL to break through the bottlenecks brought by nonlinear feedback in detailed scale interactions. In this Special Issue, we call for papers that deal with recent advances in machine deep learning, statistical methods and dynamical modeling associated with research and development in marine science and engineering research and applications, including advanced machine learning algorithms, new ideas in statistical methods and dynamical models, data assimilation, MDL-induced physical parameterization, MDL-induced climate and chemistry modeling, etc.

Guest Editors

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Deadline for manuscript submissions

closed (20 March 2026)



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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

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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).