Special Issue

Ocean Internal Waves and Circulation Dynamics in Climate Change

Message from the Guest Editor

Internal waves (including internal solitary waves, internal tide waves, and near-inertial internal waves, etc.) and circulation/eddies are key hydrodynamic processes in the ocean; they play important roles in mass and energy transport. In the context of global warming, storm surges or cold spells induced by global climate change are becoming more frequent, which might impact ocean internal waves and circulation/eddies, thereby affecting ocean mixing, mass, and energy transport. The purpose of this Special Issue is to publish the most exciting research with respect to ocean internal waves and circulation/eddy dynamics in climate change based on the applications of high observational technology, satellite remote sensing, and numerical modelling. We are seeking high-quality papers for publication that are directly related to the above synopsis.

Guest Editor

Prof. Dr. Shuqun Cai

State Key Laboratory of Tropical Oceanography, South China Sea Institute of Oceanology, The Chinese Academy of Sciences, 164 West Xingang Road, Guangzhou 510301, China

Deadline for manuscript submissions

closed (30 October 2025)

Journal of Marine Science and Engineering

an Open Access Journal by MDPI

Impact Factor 2.8
CiteScore 5.0

mdpi.com/si/204743

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

Journal of Marine Science and Engineering

an Open Access Journal by MDPI

Impact Factor 2.8
CiteScore 5.0

mdpi.com/journal/jmse

MDPI

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).