



Recent Developments in Ship-Induced Hydrodynamics, Vessel-Generated Waves and Their Effects on Adjacent Shorelines

Guest Editors:

Dr. Matt Malej

The United States Army Corps of
Engineers, Washington, DC, USA

Dr. Sheremet Alexandru

Engineering School of
Sustainable Infrastructure and
Environment, University of
Florida, Gainesville, FL, USA

Deadline for manuscript
submissions:

closed (30 April 2024)

Message from the Guest Editors

The field of monitoring, modeling, and evaluating the effects of vessel-generated waves, either from large container-type vessels or faster recreational crafts, is constantly evolving. New technologies and techniques are being developed to improve our understanding of vessel performance, as well as the robustness and resilience of coastal protective structures. Human activities associated with the accelerating urbanization of coastal areas stresses and degrades the ecosystem in adjacent waterways. The impact is typically a multiscale process in which the accumulation of short-time perturbations is amplified and modulated by local circulation. For example, boat traffic creates an intermittent climate that enhances sediment transport, bank erosion, vegetation stripping, and ecosystem degradation. Understanding, modeling, and predicting such processes requires an effective characterization of a range of subprocesses that include human activity, small scale circulation, sediment transport, and morphodynamics, as well as their complex interaction.





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Tony Clare

School of Natural and
Environmental Sciences,
Newcastle University, Newcastle
upon Tyne NE1 7RU, UK

Message from the Editor-in-Chief

The *Journal of Marine Science and Engineering* (JMSE; ISSN 2077-1312) is an international peer-reviewed open access journal which provides an advanced forum for studies related to marine science and engineering. The journal aims to provide scholarly research on a range of topics, including ocean engineering, chemical oceanography, physical oceanography, marine biology and marine geosciences. We invite you to publish in our journal sharing your important research findings with the global ocean community.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed with Scopus, SCIE (Web of Science), GeoRef, Inspec, AGRIS, and other databases.

Journal Rank: JCR - Q1 (*Engineering, Marine*) / CiteScore - Q2 (*Ocean Engineering*)

Contact Us

*Journal of Marine Science and
Engineering* Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/jmse
jmse@mdpi.com
X@JMSE_MDPI