

Special Issue

Ocean Numerical Forecast Modelling of Oil Spill

Message from the Guest Editor

The Deepwater Horizon oil spill was a turning point in oil spill preparedness and response. The scientific, governmental, and industry R&D communities have been working hard in the decade since. This Special Issue highlights key developments from these three sectors. Oil spill modeling developments from the Gulf of Mexico Research Initiative are summarized to show the breadth of the research and how this can improve oil spill response and planning. The U.S. Bureau of Ocean Energy Management highlights research to improve oil spill preparedness in the Pacific and Arctic Oceans, in tandem with the GoMRI program. Industry has funded detailed work in areas of changes in dissolved oxygen levels from subsurface oil to improvements in response and analysis. **keywords:**

- Oil spill
- Modeling
- Lagrangian
- Oil weathering
- Oil fate
- Toxicity
- Fate and effects
- Gulf of Mexico
- Deepwater Horizon oil spill
- Statistics

Guest Editor

Dr. C. J. Beegle-Krause
SINTEF Ocean, Trondheim, Norway

Deadline for manuscript submissions

closed (5 July 2021)



Journal of Marine Science and Engineering

an Open Access Journal
by MDPI

Impact Factor 2.8
CiteScore 5.0



mdpi.com/si/53329

*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://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

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.

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 15.6 days after
submission; acceptance to publication is undertaken in 1.9
days (median values for papers published in this journal in
the first half of 2025).