

Special Issue

Ocean Oil Spills

Message from the Guest Editor

Efficient oil spill mitigation actions depend on rapid detection of oil slicks and prediction of their fate and displacement. Rapid detection and prediction of fate will allow response agencies time for planning and providing a specific and timely intervention at sea. Oil slick detection can be done in situ or by remote sensing. Forecasts are usually performed through numerical simulations with the application of empirical and semi-empirical algorithms. Breaking waves and vertical mixing of oil will affect droplet size distribution and horizontal displacement of the oil. In this Special Issue, we would like to focus on applications of high-resolution model setups in combination with fully fledged oil spill simulation models, which includes the most important factors affecting the oil fate. Comparisons with real-world cases are particularly welcome. The contributions should build on the recent rapid development in high-resolution ocean modeling. Coastal applications with features such as complex topography and river plume interaction are of special interest, as well as studies involving new methods for oil slick detection in combination with transport modeling.

Guest Editor

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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.

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