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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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.

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