

## Special Issue

# Marine Snow and Elemental Cycles in the Ocean

### Message from the Guest Editor

Marine aggregates of phytoplankton detritus and inorganic matter, known as marine snow, play a crucial role in elemental cycles in the ocean. Marine snow aggregates represent fast sinking vehicles of particulate organic matter, accelerating the vertical downward flux of photosynthetically-fixed carbon to the deep ocean. Sinking aggregates are often densely colonized by highly active heterotrophic microbial communities, making them hotspots for elemental cycles in the water column. In addition marine snow also plays an important role in the fate of contaminants, such as spilled oil, as they incorporate oil compounds during formation and sinking through the water column. This special issue welcomes submissions of state-of-the-art marine snow research focusing on:

- Formation, sinking, and fragmentation processes of marine snow;
- Biogeochemical cycling of marine snow-associated organic matter;
- Marine oil snow processes;
- Laboratory, field, and modelling processes to the above aspects of marine snow

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### Guest Editor

Dr. Kai Ziervogel

Ocean Process Analysis Laboratory, University of New Hampshire  
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### Deadline for manuscript submissions

closed (30 June 2020)



## Journal of Marine Science and Engineering

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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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### Editor-in-Chief

Prof. Dr. Charitha Pattiaratchi

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#### 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).