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# Marine Snow and Elemental Cycles in the Ocean

Guest Editor:

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Deadline for manuscript submissions:

closed (30 June 2020)

## Message from the Guest Editor

Dear Colleagues,

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

Dr. Kai Ziervogel Guest Editor











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### **Editor-in-Chief**

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# **Message from the Editor-in-Chief**

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