

Physical Oceanography activities during MOSAiC: a summary from the OCEAN team

Benjamin Rabe (1), Christine Provost (2), and the MOSAiC OCEAN team

(1) Alfred-Wegener-Institut Helmholtz-Zentrum für Polar- und Meeresforschung, Climate Sciences, Bremerhaven, Germany
(benjamin.rabe@awi.de), (2) LOCEAN, Sorbonne Université, Paris, France

MOSAiC is a year-long drift study in the Arctic Ocean with a central observatory around the icebreaker Polarstern and a distributed network of autonomous and temporarily manned observations. The study aims at understanding processes in the ocean and atmosphere boundary layers and the sea ice on small to mesoscales in a large scale context using the observations and coordinated modelling activity.

The poster will detail the current, draft plan for physical observations in the ocean during MOSAiC. These are related to the science questions laid out in the MOSAiC Science and Implementation plans.

We will present the key variables that have been identified, the instrumentation for obtaining the measurements and a first look at a potential observation schedule.

This contribution is meant to inform about current plans, initiate discussion and involve new MOSAiC partners.