



## **Sea ice effects on salinity in northern oceans**

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Arctic sea ice volume decreases despite decreasing ice export through Fram Strait. This implies considerable changes in the thermodynamic growth of Arctic sea ice. We use a hindcast simulation with AWI's NAOSIM to estimate the spatial and temporal distribution of freezing and melting. An additional tracer allows us to follow the melt water through the Arctic and into the Nordic seas. We compare the effect of thermodynamic sea ice processes on ocean salinity between the decade of the 1990s and the first decade of the 21st century.