



## **Regional climate change of the ocean around Greenland**

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The response to climate change of the condition in the ocean around Greenland is investigated with a regional ocean model in a transient simulation covering the period 1950-2050. The model is forced at the sea surface by a regional climate model with hourly fields of long-wave and short-wave radiation, air temperature and humidity, precipitation, and 10m wind. Lateral boundary conditions are extracted from a global coupled atmosphere-ocean climate model. The aim with the simulation is to study the ocean conditions around Greenland and to provide a basis for further modelling efforts, for example with marine ecological models.