



## **Atmosphere-sea ice-ocean interactions in the Ross Sea sector, Antarctica**

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A new atmosphere-sea ice-ocean regional coupled model has been developed with a high resolution (20 to 40km). The initial models are the atmospheric regional model MAR, which has been developed especially for polar regions, and a new regional configuration of the ocean-sea ice model OPA-LIM. This coupled model is used over the Ross Sea Sector and around, which includes the Transantarctic Mountains and the Ross Ice Shelf. This sector is rich in meteorological features, and we will focus on atmosphere-sea ice-ocean interactions in polynias and next to sea-ice edge.