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Supporting Information for

A model-based investigation of the recent rebound of shelf water salinity in the Ross Sea

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Overview

We present here additional information related to oceanography data, model simulation setup, summary of perturbation experiment settings, and the additional experiment and analysis (Figures S1 to S7).

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28 **2. Table | Summary of experiment simulation settings**

Simulation	Wind forcing	Other atmospheric forcing
All Vary	Interannual	Interannual
Wind Vary	Interannual	Climatology
All Fixed	Climatology	Climatology

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30 Note that ‘Interannual’ represents real-time atmospheric forcing, and ‘Climatology’

31 represents the averaged atmospheric condition from 2000 to 2010.

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