

Description of Additional Supplementary Files

Supplementary Movie 1: Animation of maps for selected variables in a moderate warming scenario (historical-SSP2-4.5 with an Equilibrium Climate Sensitivity of 4.0 °C), simulated by the coupled model with interactive ice sheet freshwater flux from both ice sheets.

Supplementary Movie 2: Animation of maps for selected variables in an intensive warming scenario (historical-SSP5-8.5 with an Equilibrium Climate Sensitivity of 5.6 °C), simulated by the coupled model with interactive ice sheet freshwater flux from both ice sheets.

Supplementary Movie 3: Animation of vertical cross-sections for selected variables in an intensive warming scenario (historical-SSP5-8.5 with an Equilibrium Climate Sensitivity of 5.6 °C), simulated by the coupled model with interactive ice sheet freshwater flux from both ice sheets.