ERRATUM

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Equilibrium response of thermohaline circulation to large changes in atmospheric CO2 concentration

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Figure 7 shown below replaces Fig. 7 of the paper entitled "Equilibrium response of thermohaline circulation to large changes in atmospheric CO2 concentration". The time series of the intensity of Atlantic thermohaline circulation from the 4xC experiment in the original version of Fig. 7 is in error. It indicated incorrectly that the intensity of the thermohaline circulation (THC) becomes negative during the period between model years 500 and 1300 of the time integration. Although the intensity decreases to \sim 2 Sverdrup (Sverdrup = $10^6 \text{ m}^{3\text{s}-1}$) between the 300^{th} and 900th year as indicated in the revised Fig. 7 shown below, it never becomes negative throughout the course of the 4×C time integration. The discussion of the 4×C time series in the published paper is consistent with the corrected time series in new Fig. 7. The time series from other time integrations (i.e., control, 2×C, and 1/2×C) are correct, and remain unchanged in the revised figure.

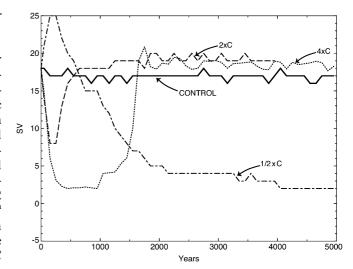


Fig. 7 The temporal variation of the 100-year mean intensity of the THC in the Atlantic Ocean. Solid line: control. Dashed line: $2\times C$. Dotted line: $4\times C$. Dash-dotted line: $1/2\times C$. Here, the intensity of the THC is defined as the maximum value of its streamfunction of the deep overturning circulation in the North Atlantic Ocean. Units are in Sverdrup (= 10^6 m³s⁻¹)

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