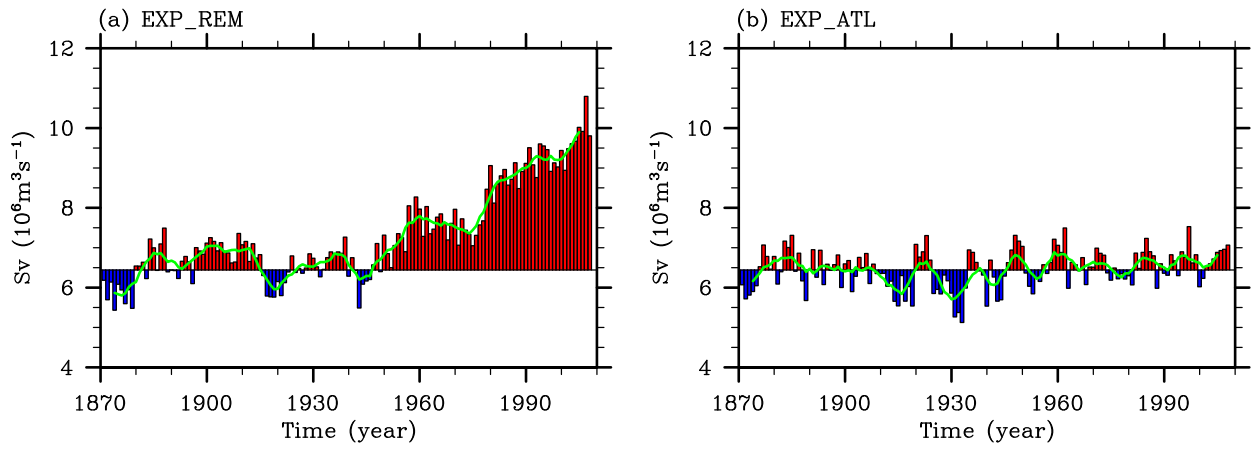


CCSM3_POP: AMOC Index (Max at 30°S)



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2 **Figure S1.** Time series of the simulated AMOC index (maximum overturning stream function)

3 at 30°S obtained from (a) EXP_REM and (b) EXP_ATL.

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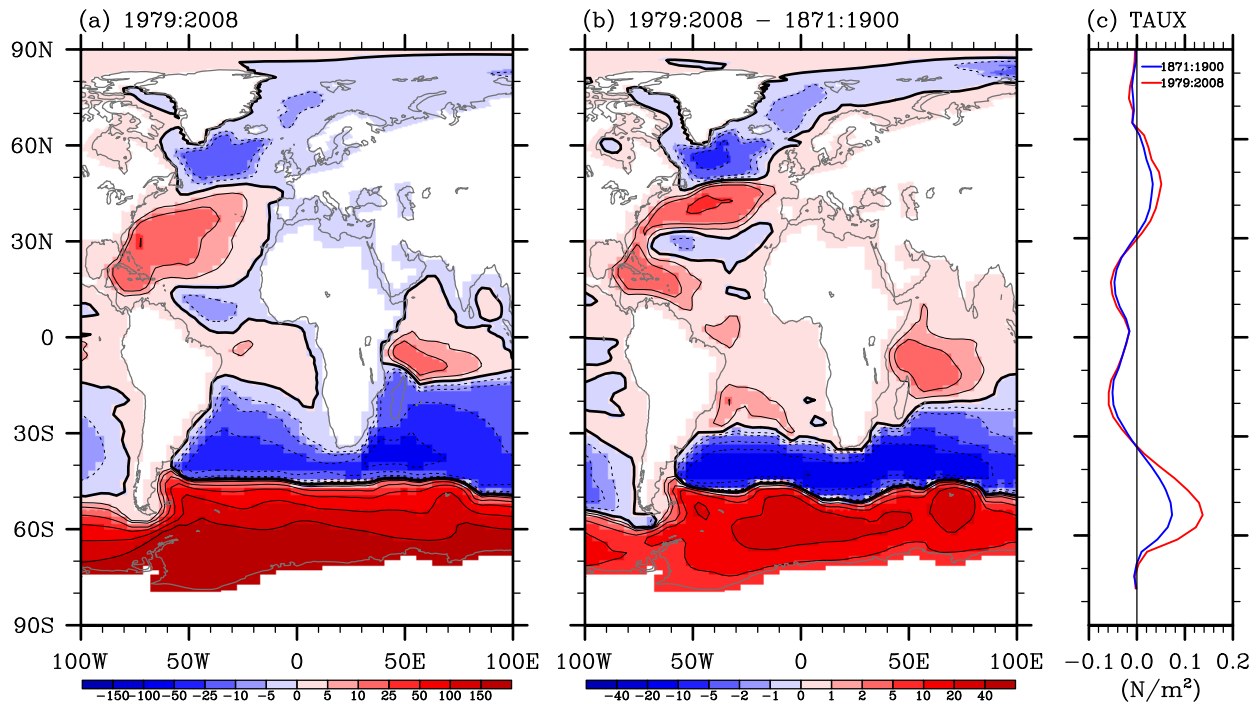
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 2 **Figure S2.** (a) Simulated barotropic stream function averaged for 1979-2008 periods, obtained
 3 from EXP_CTR. (b) Difference in the simulated barotropic stream function between 2001-2008
 4 and 1871-1900 periods, obtained from EXP_CTR. The unit is Sv ($10^6 \text{m}^3 \text{s}^{-1}$). (c) Globally
 5 averaged zonal wind stress for 1871-1900 and for 1979-2008 periods, obtained from the 20CR.