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Supplement of

Modeling the effect of Ross Ice Shelf melting on the Southern Ocean in quasi-equilibrium

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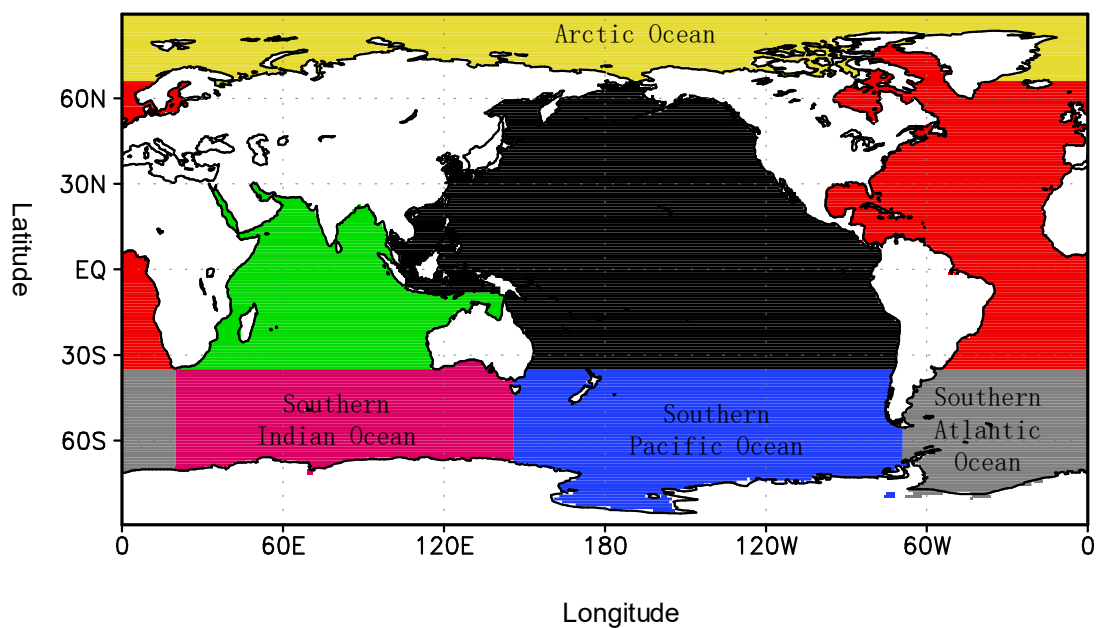


Fig. S1. Division of world ocean in 1 x 1 longitude-latitude grids

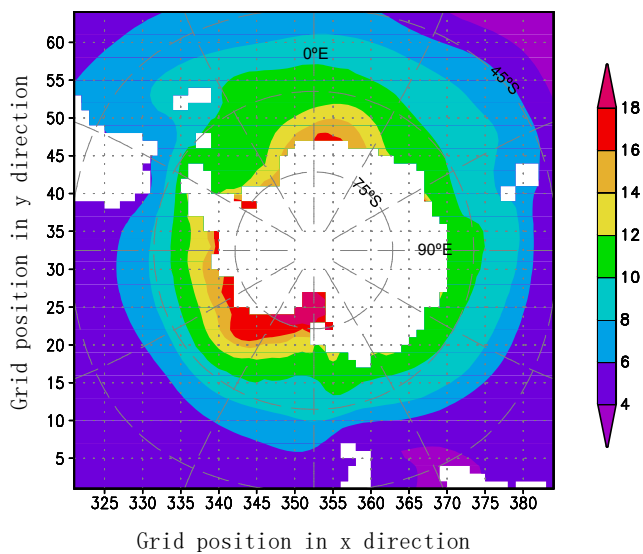


Fig. S2. Ratio of the coefficients of haline contraction and thermal expansion ($\beta\alpha^{-1}$) at 390 m in EN. The units of β and α are kg g^{-1} and $^{\circ}\text{C}^{-1}$ respectively.

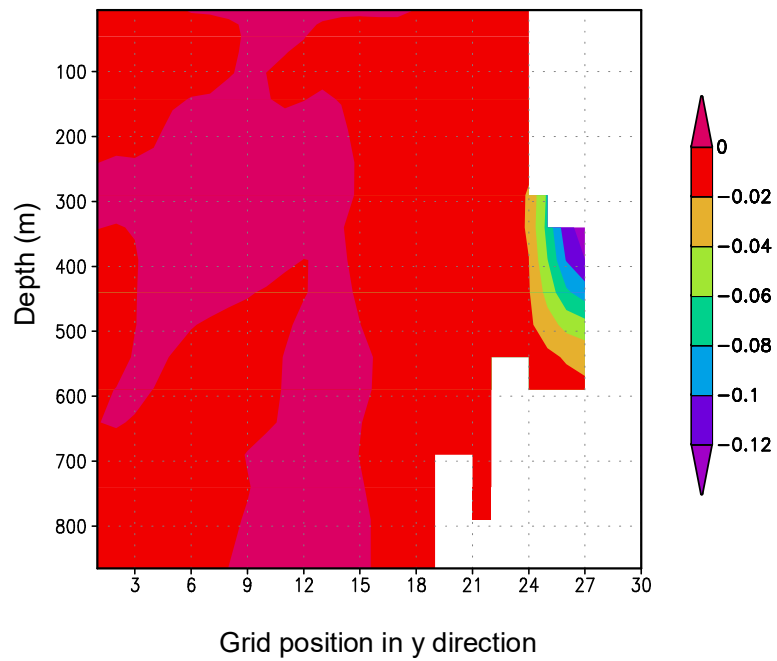


Fig. S3. Difference of density (EI minus EN) in the cross-section along x=351. The contour interval is 0.02 kg m^{-3} .

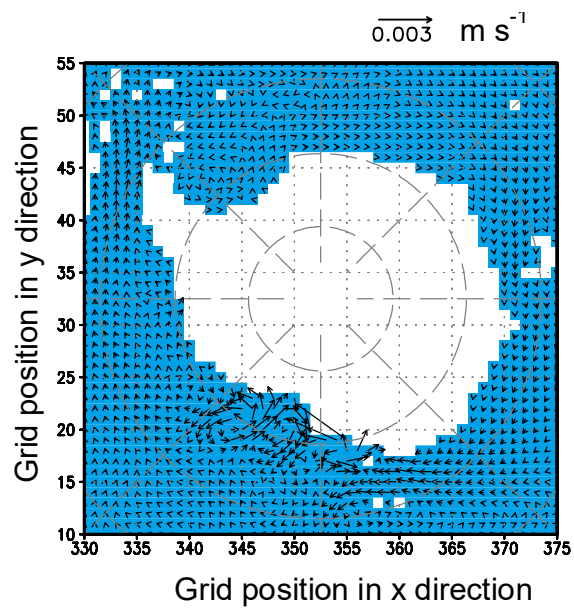


Fig. S4. Differences of annual mean ocean currents (EI minus EN) at 2065 m. The unit of velocity is m s^{-1} .