



Supplement of

Impact of West Antarctic ice shelf melting on Southern Ocean hydrography

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Figure S1

Simulated mean sea ice cover between 1979-2010 for (a) March and (b) September for LMELT. (c) Simulated time series of sea ice extent (blue) for LMELT and observed sea ice extent (red).



Figure S2

Simulated bottom (a) potential temperature and (b) absolute salinity differences between PRS and LMELT for year 32.



Figure S3

Mean bottom (a) temperature and (b) absolute salinity differences between PRS and LMELT (P-L) for year 32. Only the region deeper than 1500m is shown. The bathymetry contours of 1000 m and 2500 m are shown as black lines. The black arrow indicates locations of intensified warming and freshening.