

Supporting Information

Recent Antarctic sea ice trends in the context of Southern Ocean surface climate variations since 1950

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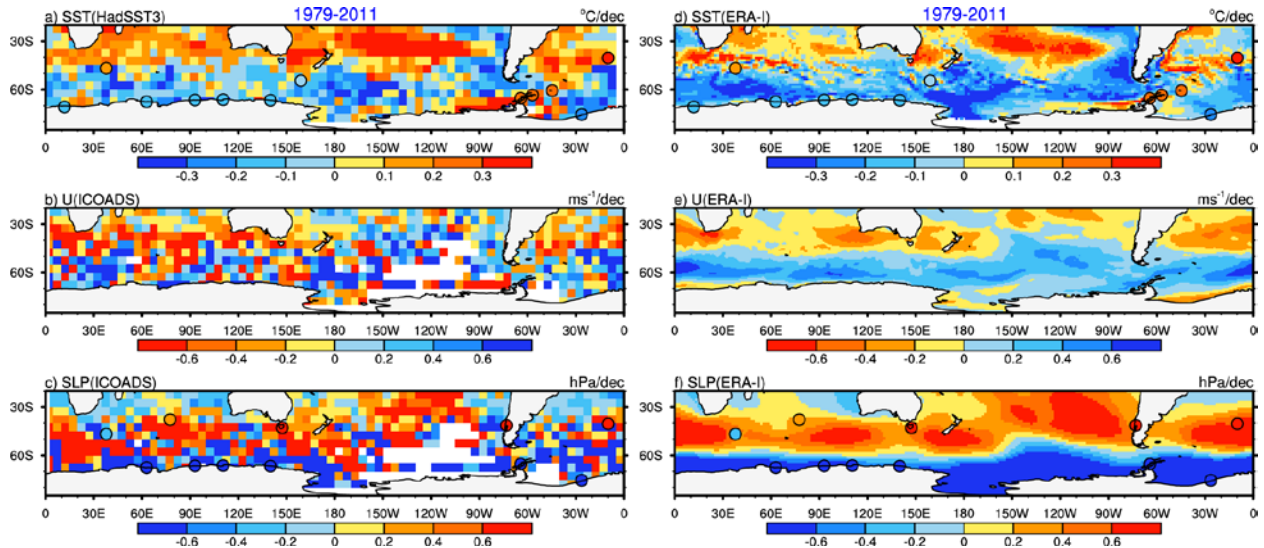


Figure S1. Comparison of austral summer (DJF) marine surface climate trends during 1979-2011 based on un-interpolated archives (left column) and ERA-I Reanalysis (right column). (a and d) Gridded SST trends ($^{\circ}\text{C}$ per decade) with land station SAT trends ($^{\circ}\text{C}$ per decade) superimposed as colored circles; the same color bar is used for both SST and SAT. (b and e) Zonal wind (U) trends (ms^{-1} per decade); note that the color bar is inverted to facilitate comparison with the other climate variables. (c and f) Gridded marine SLP trends (hPa per decade) with land station SLP trends superimposed as colored circles; the same color bar is used for both. In the left-hand panels, SST data are from HadSST3 and U and SLP data are from ICOADS; white areas indicate insufficient data coverage for computing trends ($> 60\%$ of the years have missing data during 1979-2011).

Table S1. Linear trends of the time series shown in Fig. 4. Values in plain (bold) font are significant at the 90% (95%) level.

	SST °C/dec	U ms ⁻¹ /dec	SLP hPa/dec	SAT °C/dec
1950-1978	.20	-.26	1.38	.27
1979-2000	-.18	.61	-.89	-.21