

Supplementary Material

Supporting Information from CMIP5 models. This supplemental material contains: 1) A table of CMIP5 models used to form ensemble-means of sea ice concentration, SST, and geopotential height from the historical simulation; 2) Two Figures showing maps of CMIP5 ensemble-mean trends during 1979-2013.

Table S1. List of CMIP5 models used to form the CMIP5 multi-model, ensemble mean.

1. ACCESS 1-0
2. ACCESS1-3
3. BCC-CSM1.1
4. BNU-ESM
5. CanESM2
6. CCSM4
7. CESM1-WACCM
8. CMCC-CMS
9. CNRM-CM5
10. CSIRO-MK3.0
11. FIO-ESM
12. GFDL-CM3
13. GFDL-ESM2G
14. GFDL-ESM2M
15. GISS-E2-H
16. GISS-E2-R
17. HAD-CM3
18. INMCM4
19. IPSL-CM5A-LR
20. IPSL-CM5A-MR
21. IPSL-CM5B-LR
22. MIROC5
23. MIROC-ESM
24. MIROC-ESM-CHEM
25. MPI-ESM-LR
26. MRI-CGCM3
27. MRI-ESM1
28. NorESM1-M
29. NorESM1-ME

CMIP5-EM

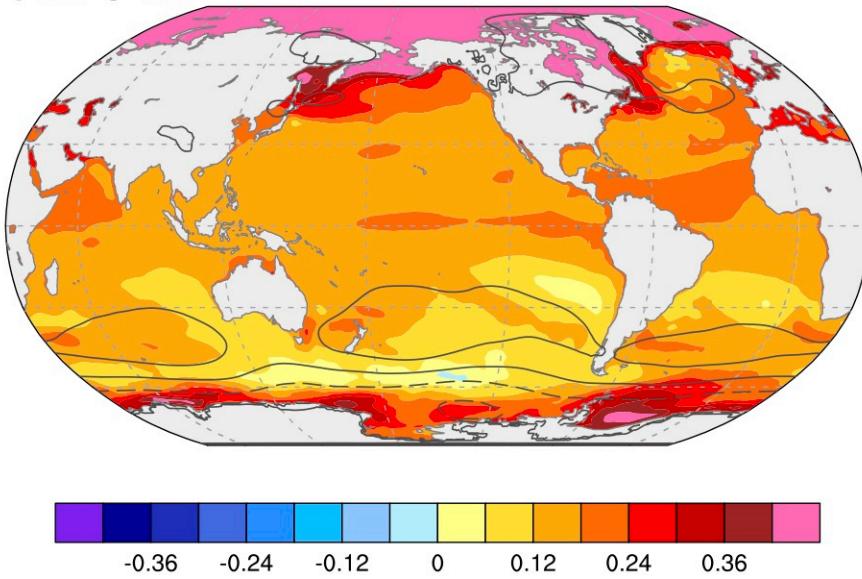


Fig. S1 Trends in SST (colors) and 850 hPa geopotential height (contours, spacing of 2 m/decade, negative trends dashed lines and positive trends solid lines) over 1979-2005, using all months, for the CMIP5 multi-model mean.

CMIP5-EM

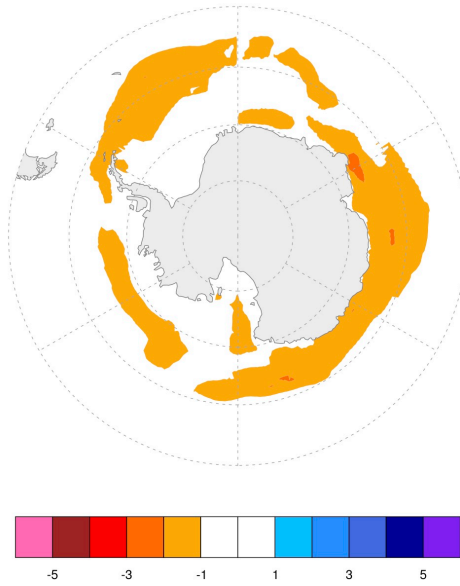


Fig. S2 Trends in sea ice concentration over 1979-2005, using all months, for the CMIP5 multi-model mean.