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Interactive comment on “Possible signals of poleward surface ocean heat transport, of Arctic basal ice melt, and of the twentieth century solar maximum in the 1904–2012 Isle of Man daily timeseries” by J. B. Matthews and J. B. R. Matthews

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Interactive comment on Ocean Sci. Discuss., 11, 47, 2014.

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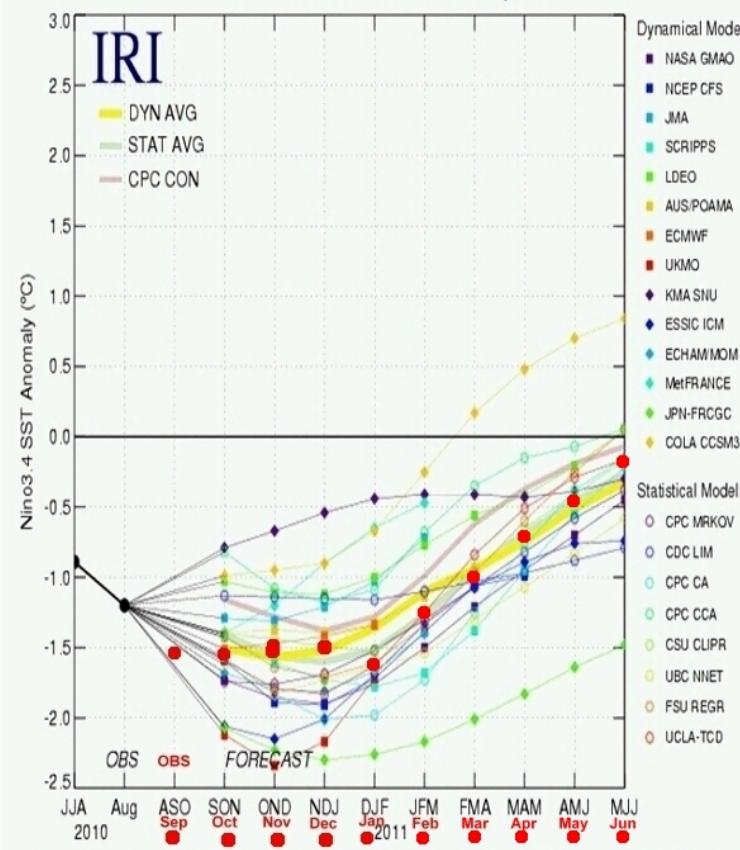
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Fig. 1. Sea surface temperature (SST) anomalies observed (red) and 10 month forecasts for Niño 3.4 region from 14 dynamical and 10 statistical models.

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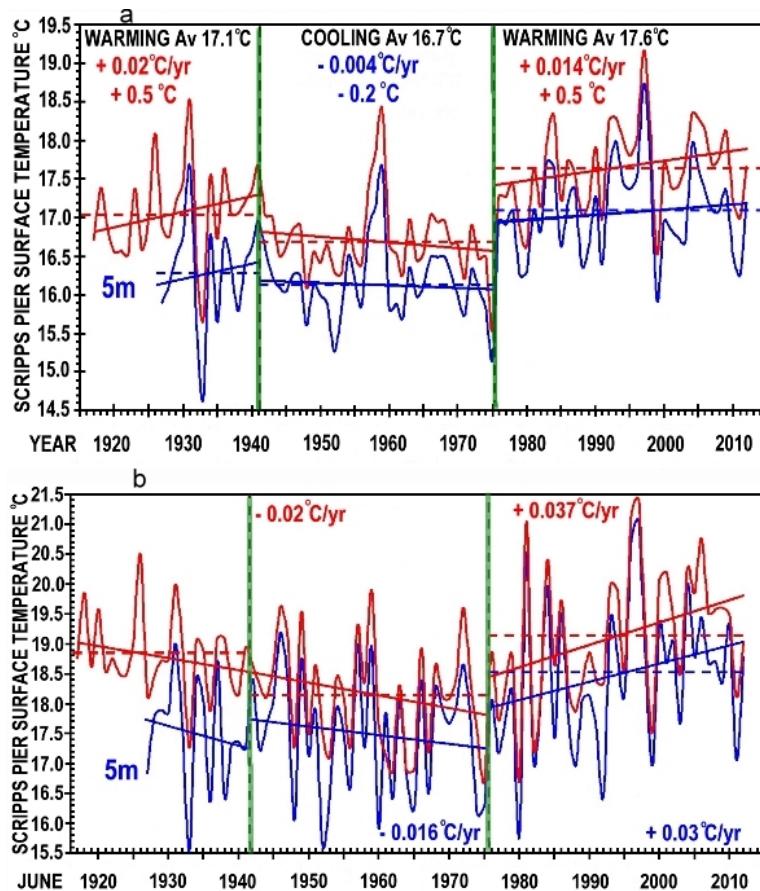


Fig. 2. Scripps Pier means and trends of surface and 5m temperatures and trends 1916–2012
a) Year, and b) June month.

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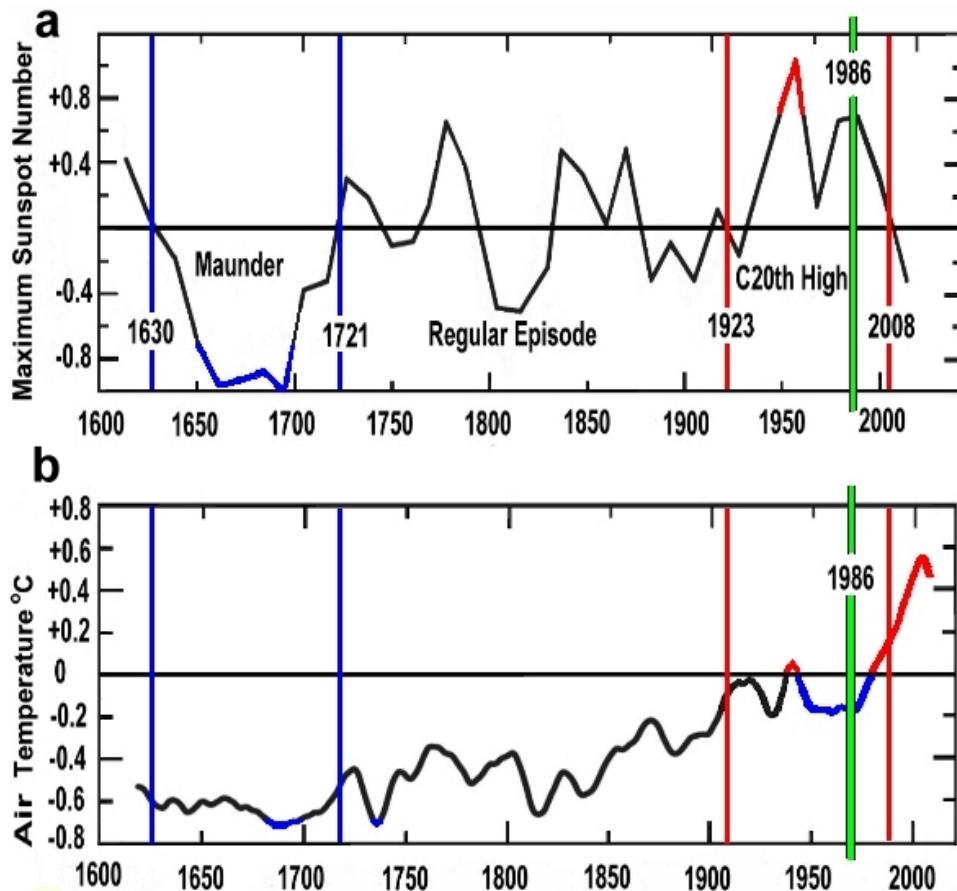


Fig. 3. From 1600–2008 a) Maximum sunspot from Maunder Minimum 1630–1721 to modern 20th century high 1923–2008 (red boundaries), b) Land air temperature. 1986 (green) marks transition to rapid solar irradiance

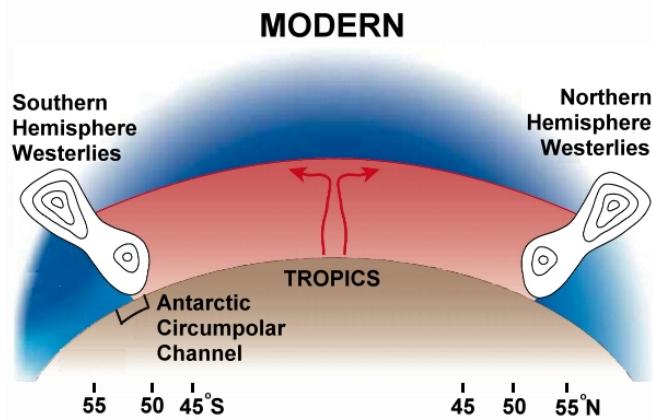
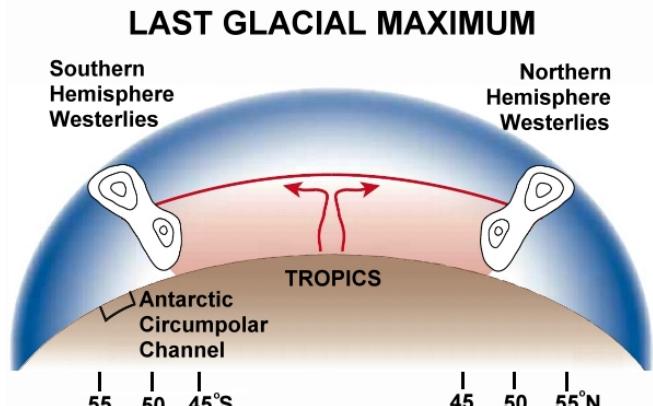
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An example of the poleward shift due to modern CO₂ GHG

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Fig. 4. Stronger southern westerlies aligned with Antarctic circumpolar channel and weaker northern due to Arctic warming. Reprinted by permission from Toggweiler and Russell, *Nature*, 451, 286-8, doi: 10.1038

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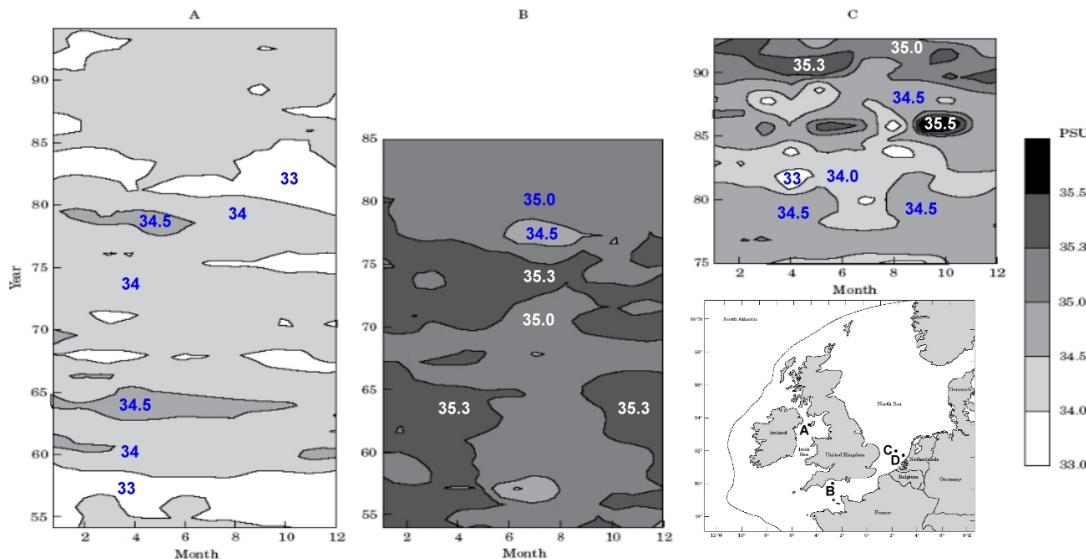


Figure 2. Annual cycles of salinity presented as monthly means at Station A (1954–1994), Station B (1954–1985), and Station C (1975–1993).

Fig. 5. Monthly Mean salinities from A Cypris, off Port Erin, B off Plymouth, English Channel, and C 30-50km off Dutch North Sea coast (Laane et al., 1996).

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