

Projected rapid response of stratospheric temperature to stringent climate mitigation

Supplementary Information

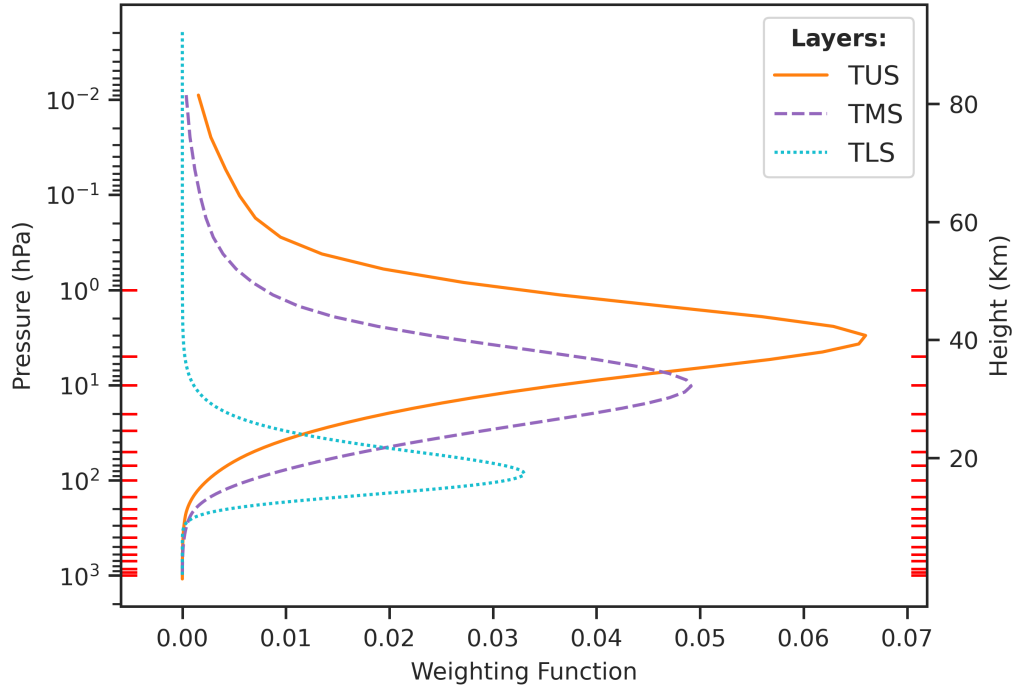
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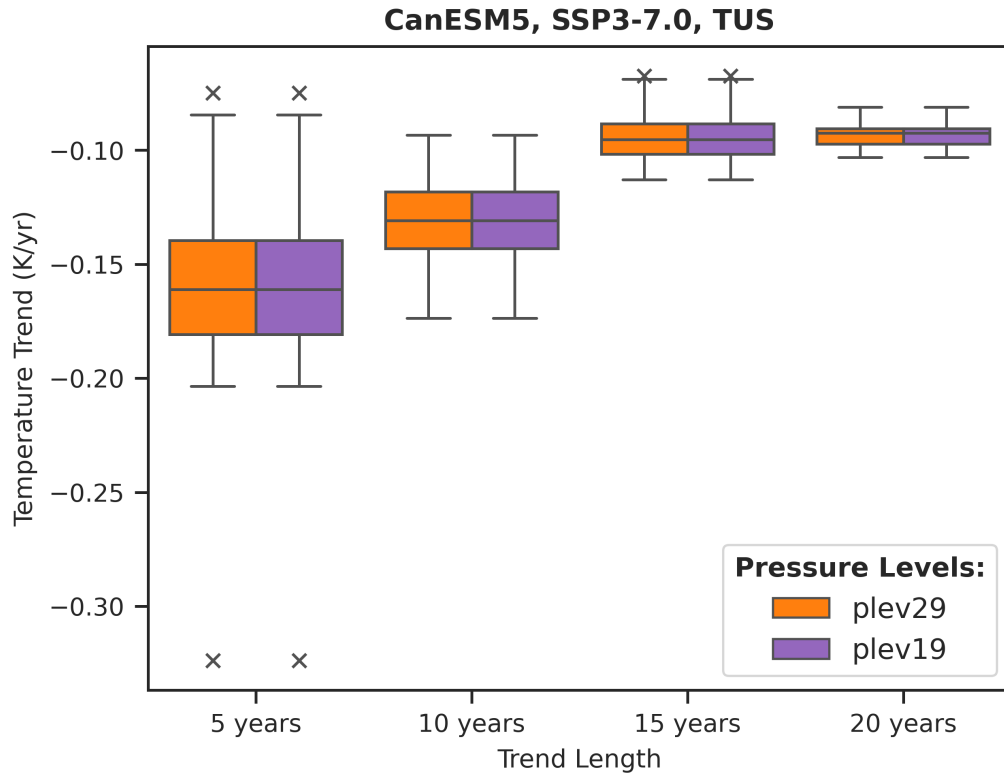
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Content:

1. Supplementary Figures 1 and 2



Supplementary Figure 1: Atmospheric weighting functions applied to climate model data. Weighting functions correspond to temperature of the: lower stratosphere (TLS), middle stratosphere (TMS) and upper stratosphere (TUS). Red ticks show the location of the model pressure levels.



Supplementary Figure 2: Dependence of TUS trends on temperatures above the stratopause. Recalculation of near-term TUS trends for the SSP3-7.0 scenario in CanESM5 using the CMIP6 ‘plev19’ variable from the main paper and the ‘plev29’ variable, which includes 10 additional layers at pressures less than 1 hPa. Boxes denote 25-75th percentile range, whiskers denote 10-90th percentile range and crosses denote outliers.