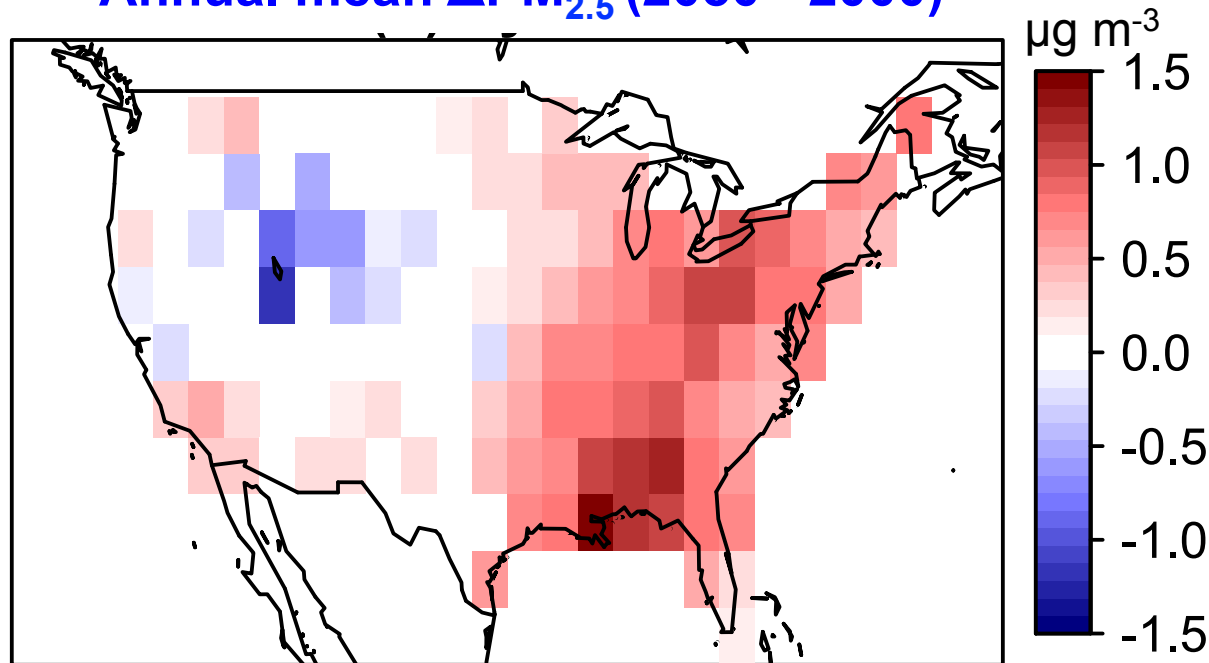


# Influence of 2000-2050 climate change on $\text{PM}_{2.5}$ concentrations in the United States

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Annual mean  $\Delta\text{PM}_{2.5}$  (2050 - 2000)



Predictors: T, RH, EW and NS wind. We use 4 local meteorological factors and two circulation factors from SVD.

- Annual mean  $\text{PM}_{2.5}$  will increase as much as  $1 \mu\text{g m}^{-3}$  in the eastern US, much more than in previous statistically-based estimates.
- $\text{PM}_{2.5}$  increases by  $\sim 3 \mu\text{g m}^{-3}$  in summer in the eastern US.