

Topics:

S/T origins for NAM

Controls over SAM response

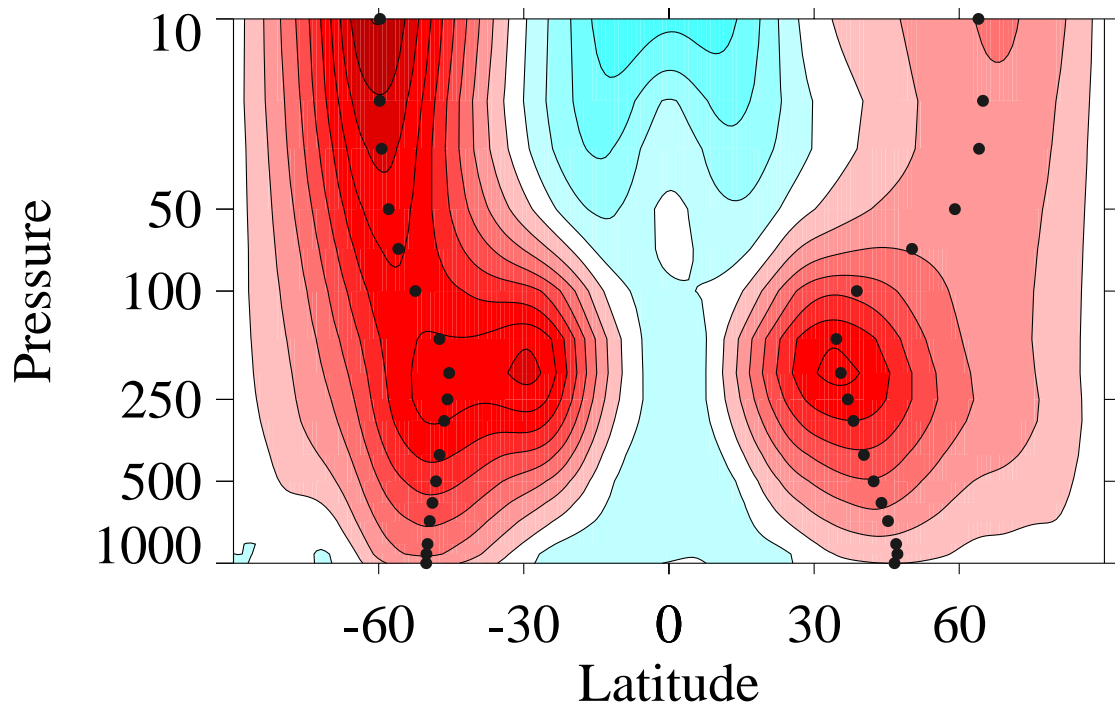
Stationarity and linearity



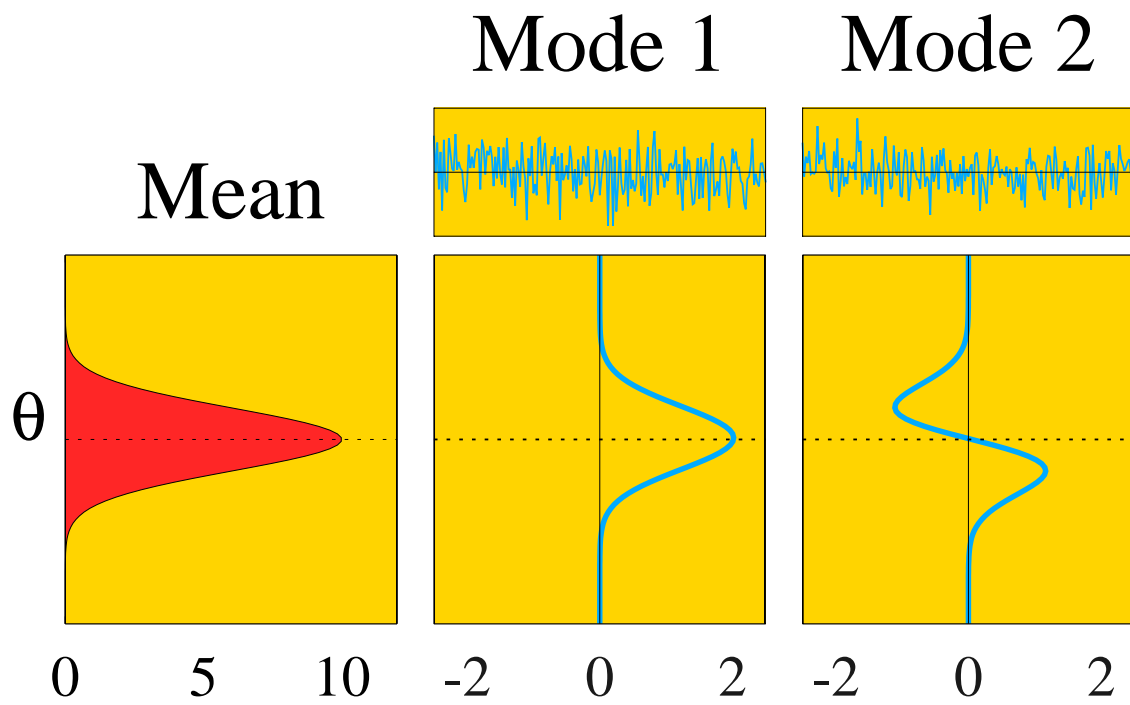
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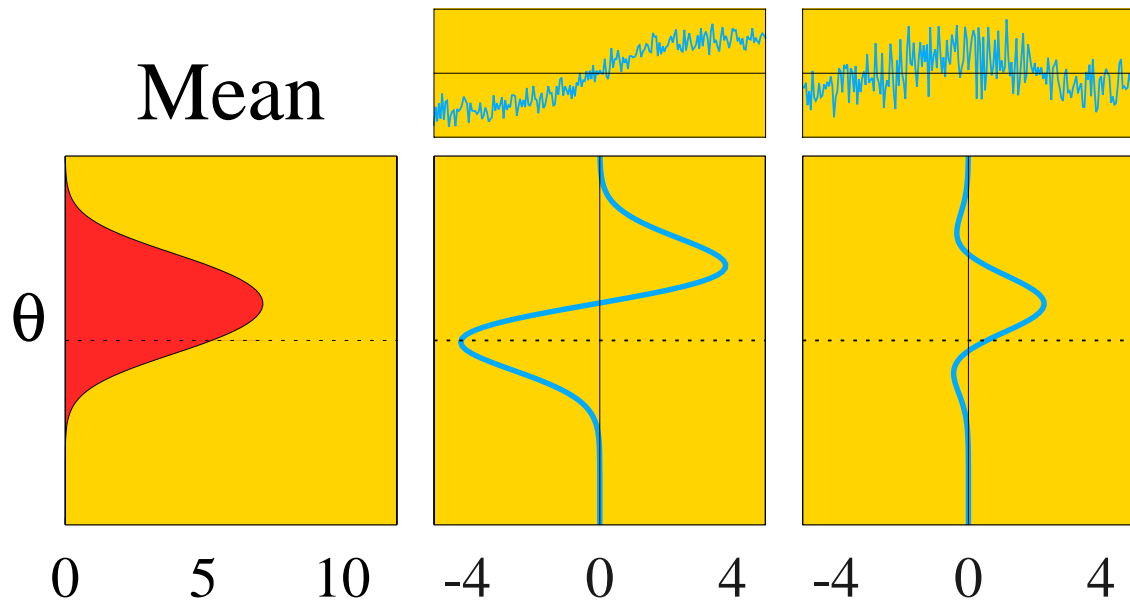
S/T origins for NAM



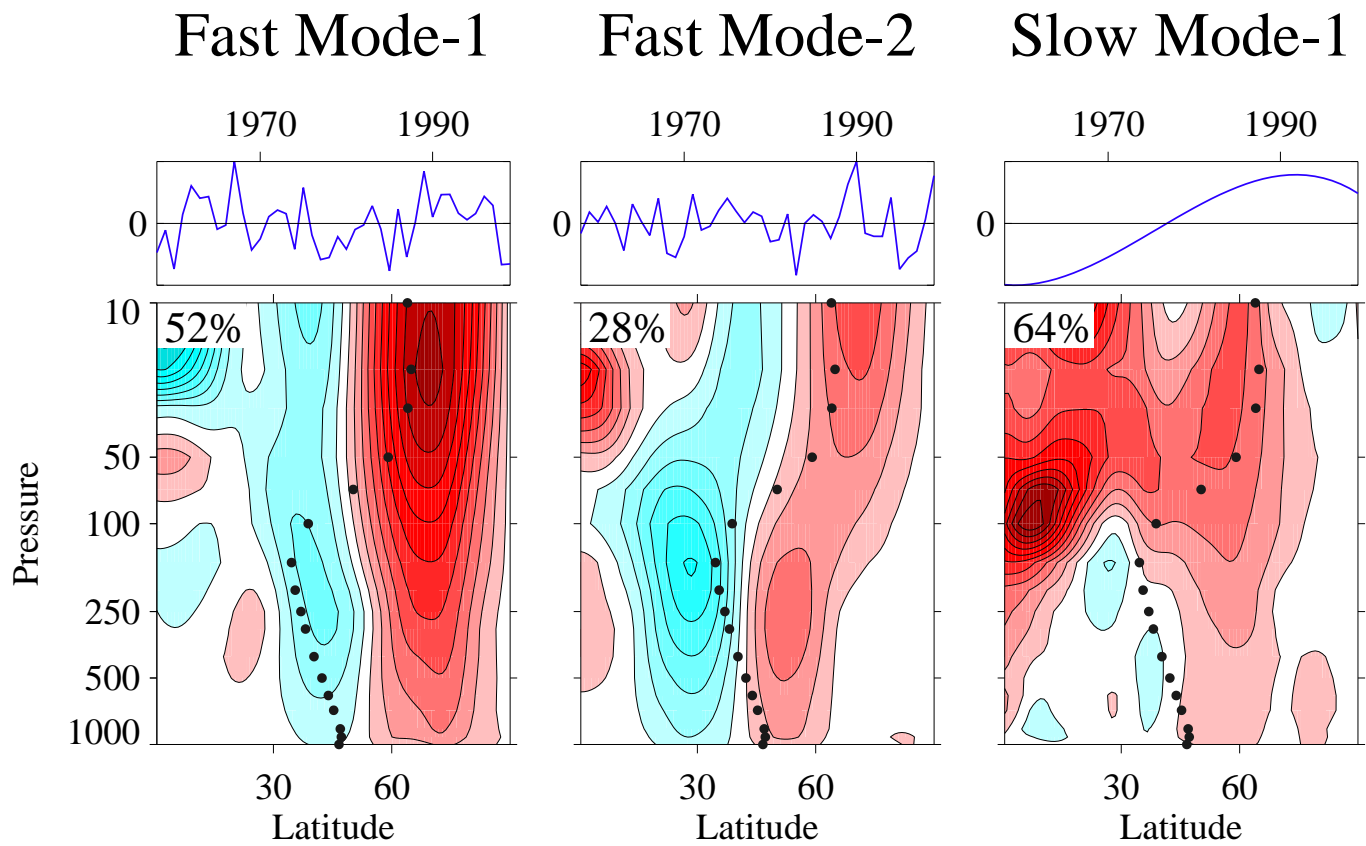
Does non-stationarity matter?



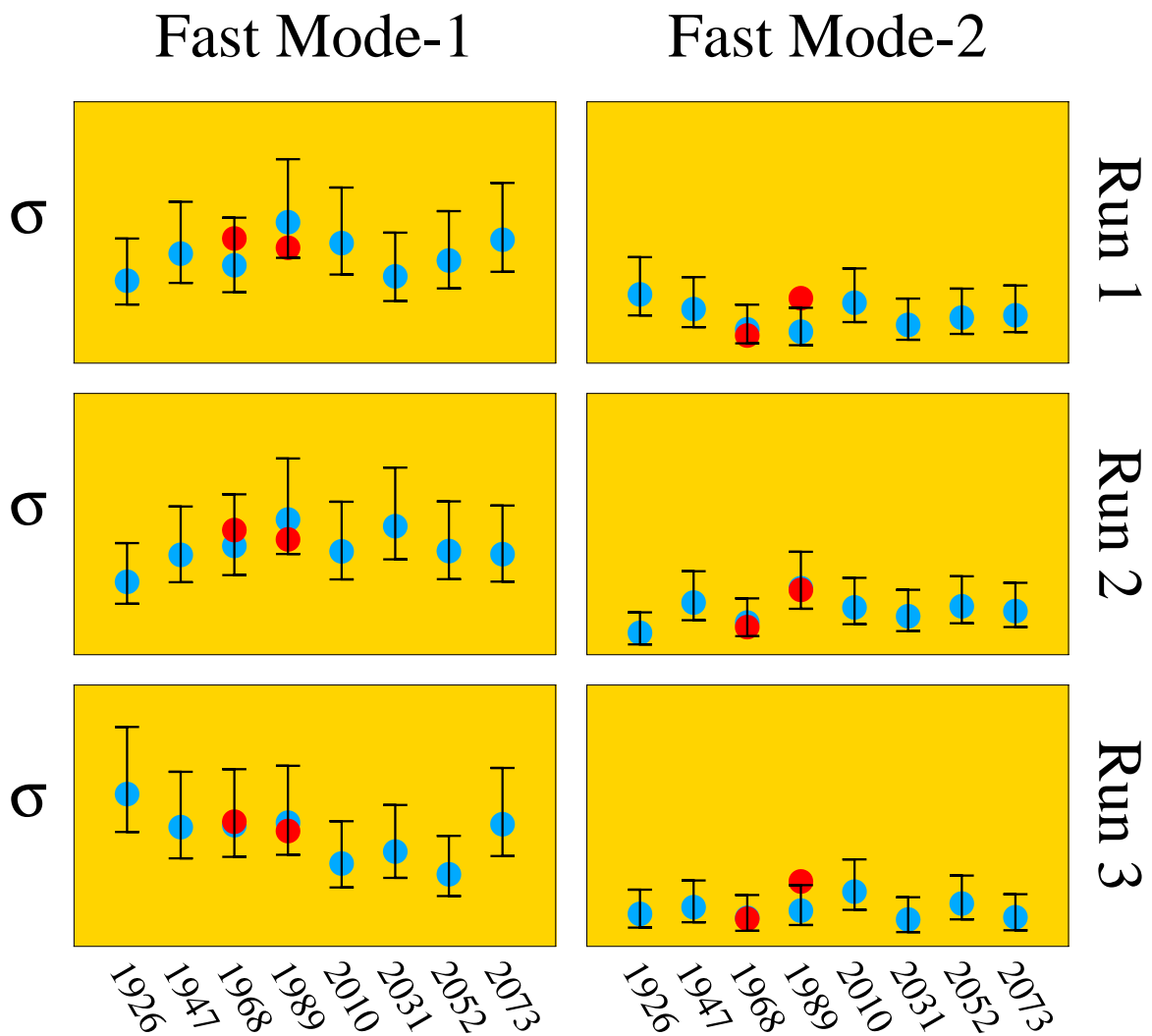
Does non-stationarity matter?



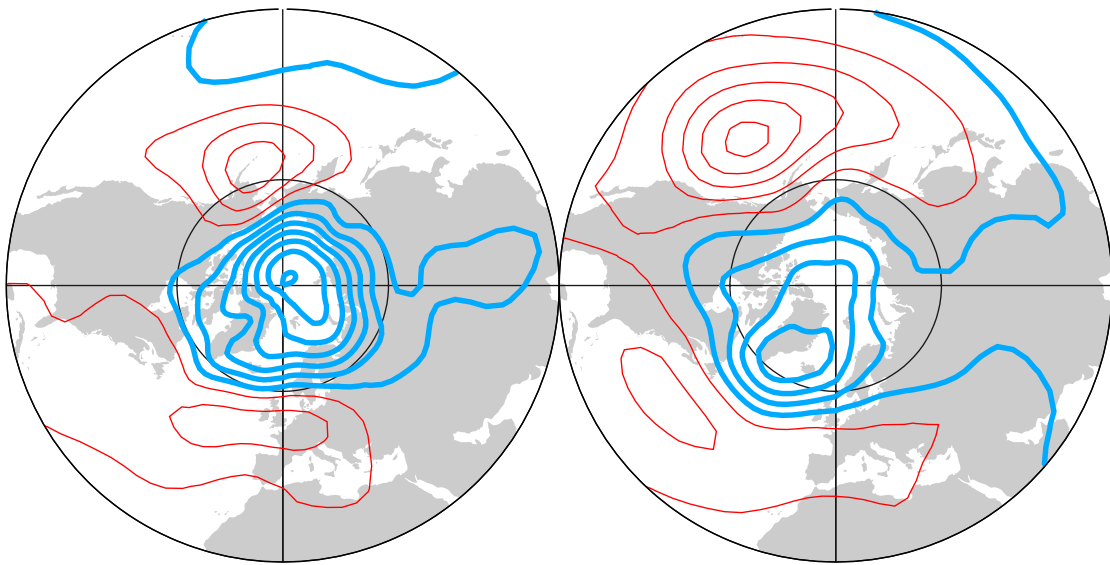
Modes of annual mean [U]



Are the fast modes changing?

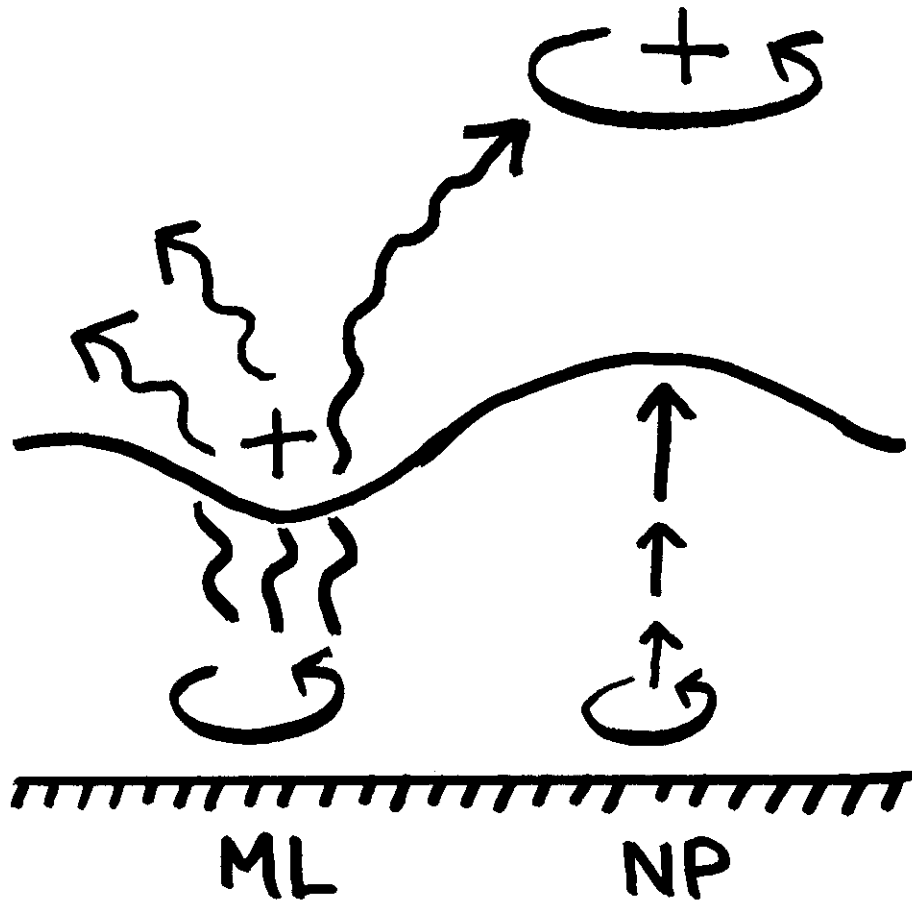


Separate S/T origins



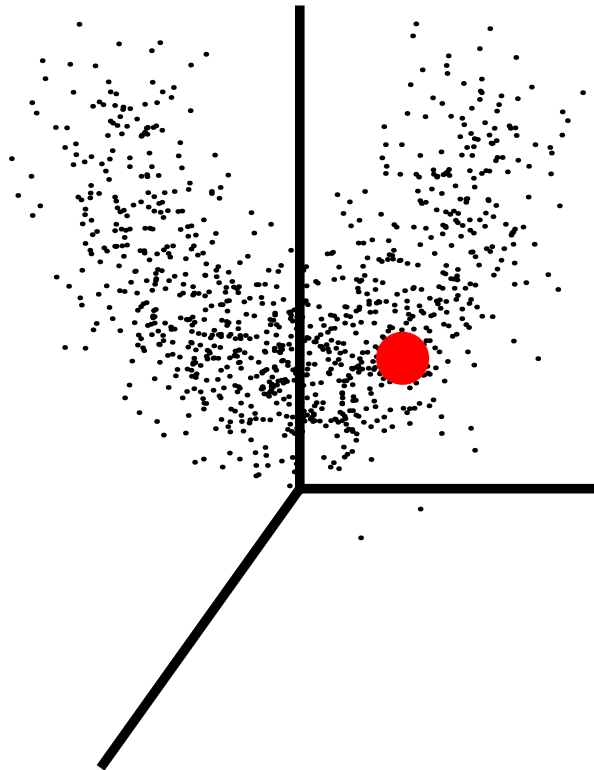
NAM_{Strat}

NAM_{Trop}

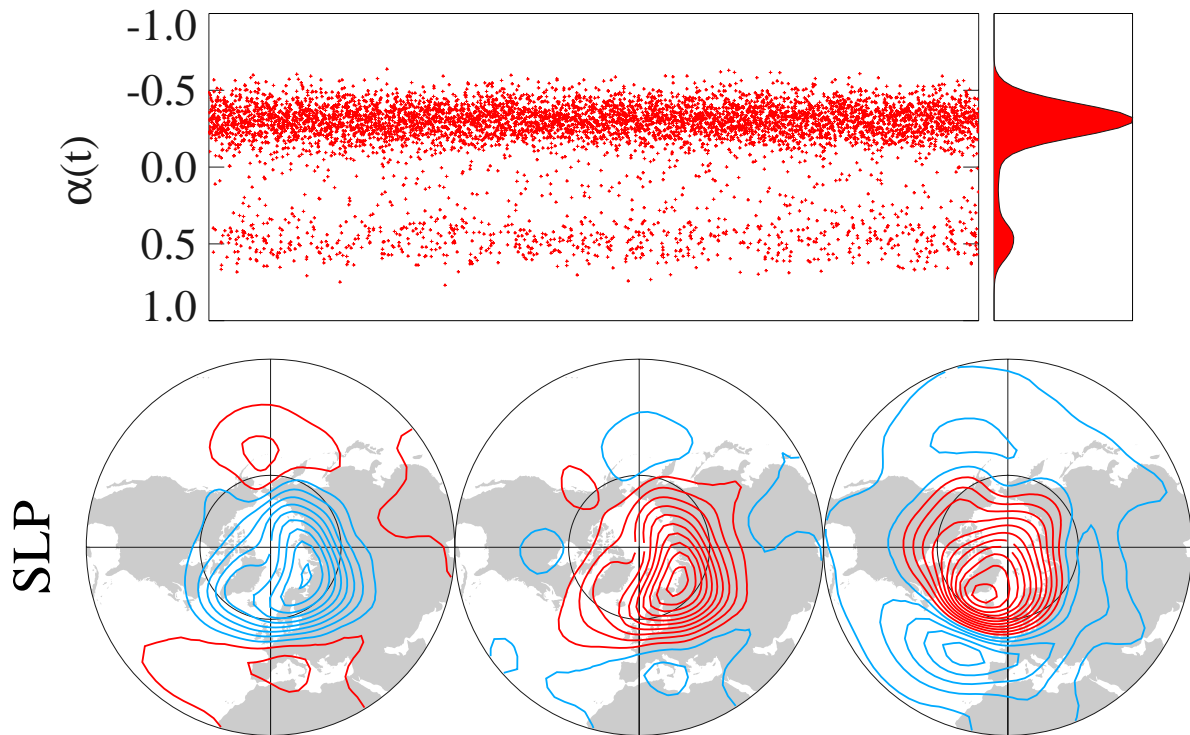


Adapted from Ambaum and Hoskins (2002)

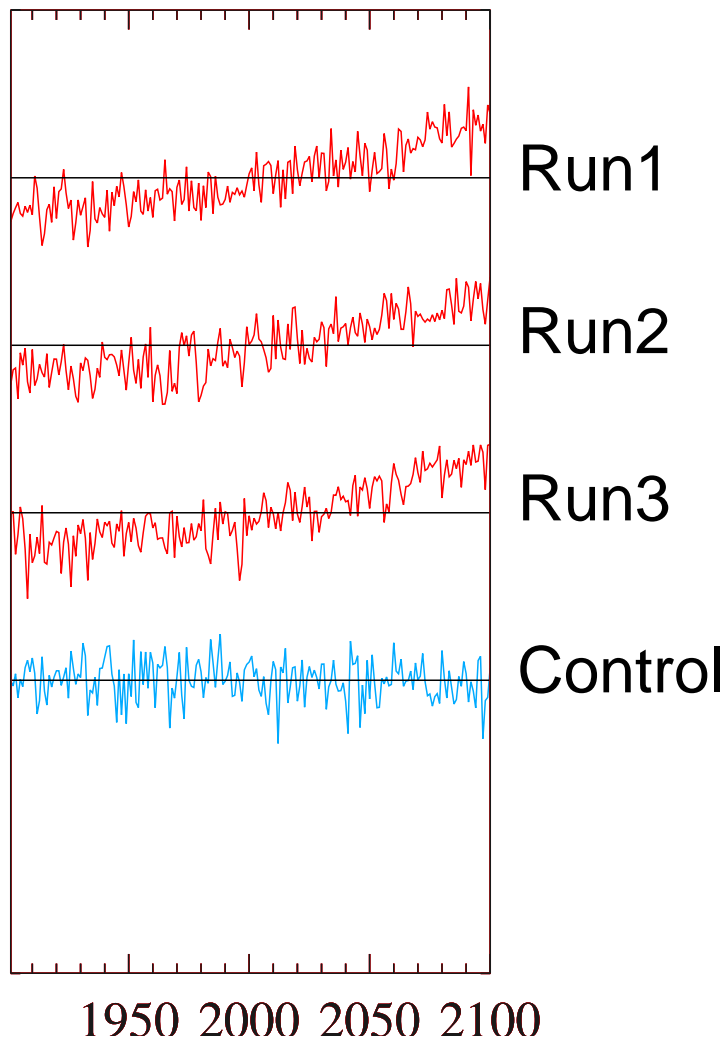
Does non-linearity matter?



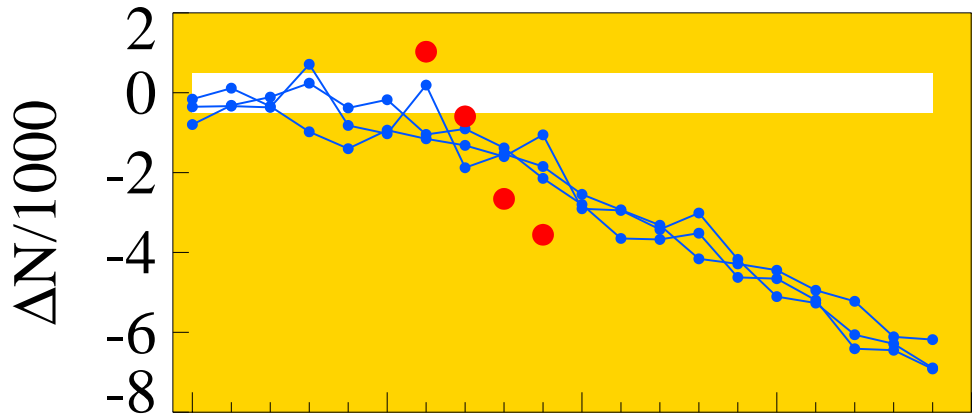
Leading nonlinear mode



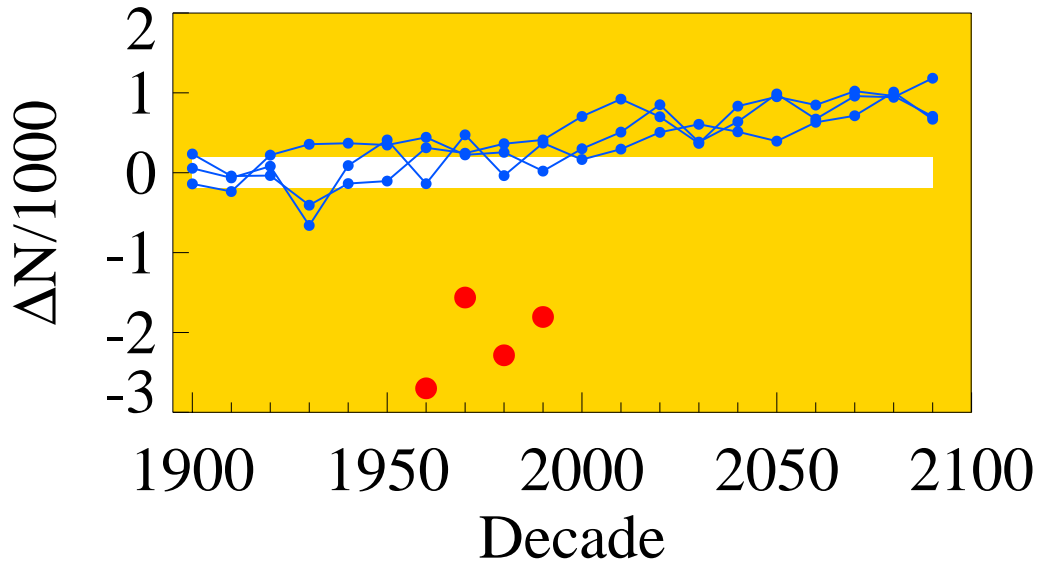
Controls over SAM response



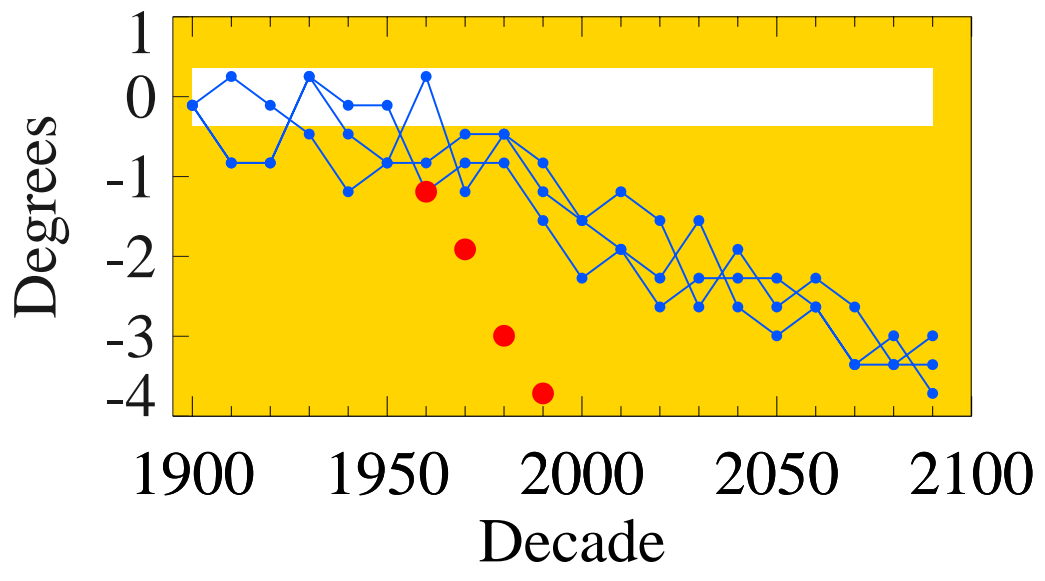
Sub-Antarctic Ocean



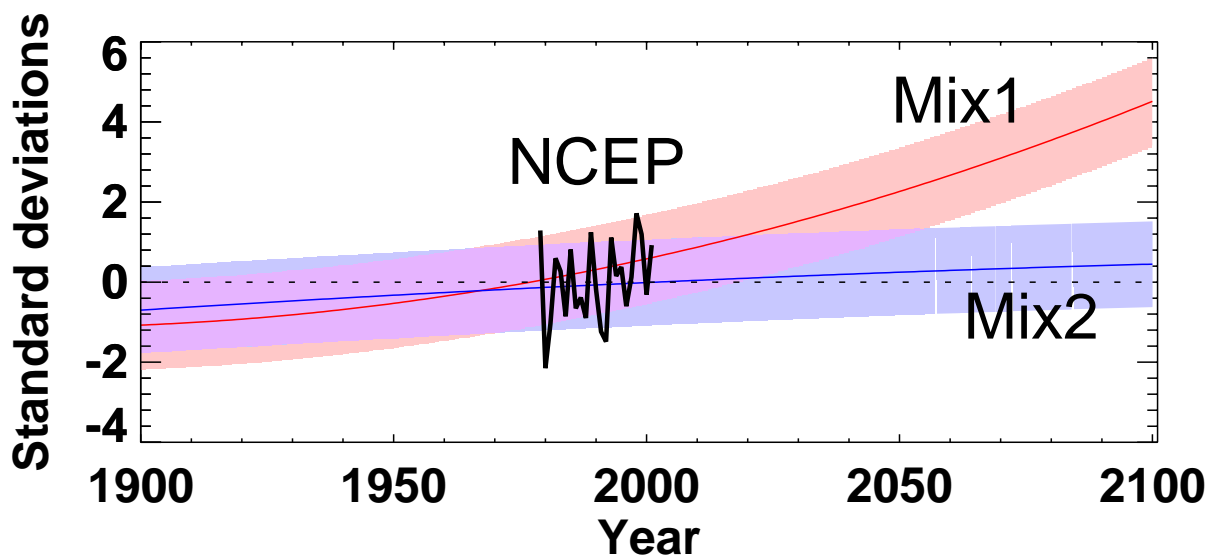
Antarctic Ocean



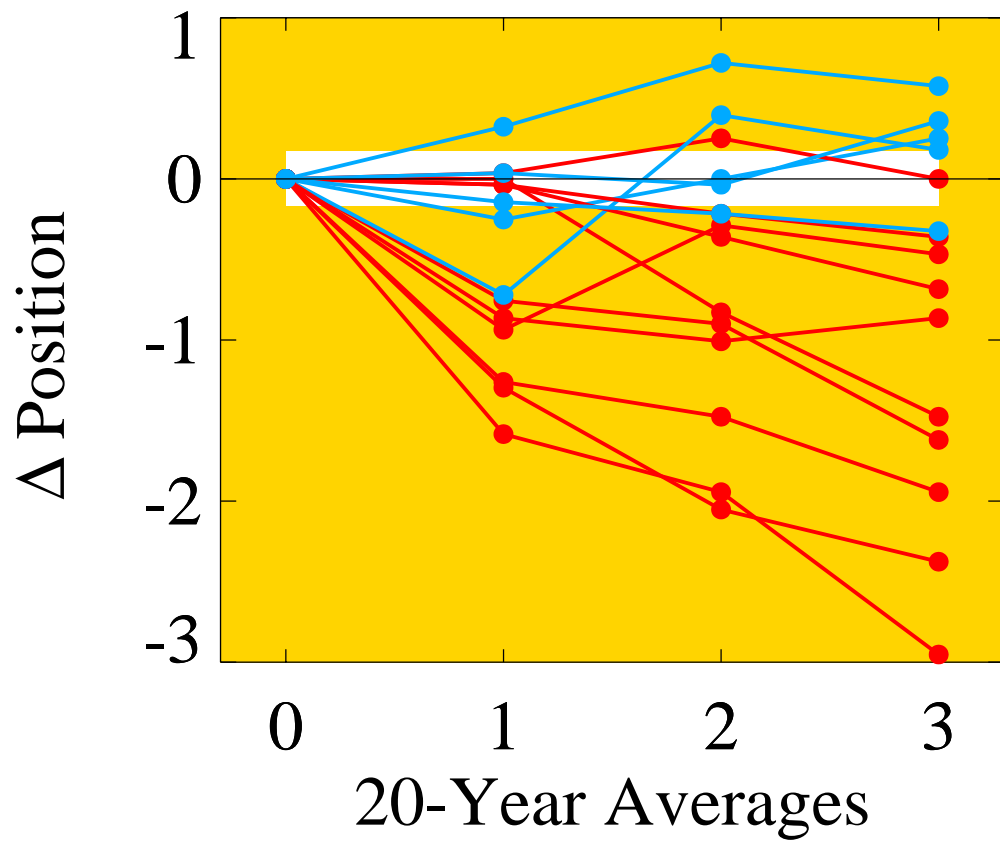
$$\Delta\theta^*$$



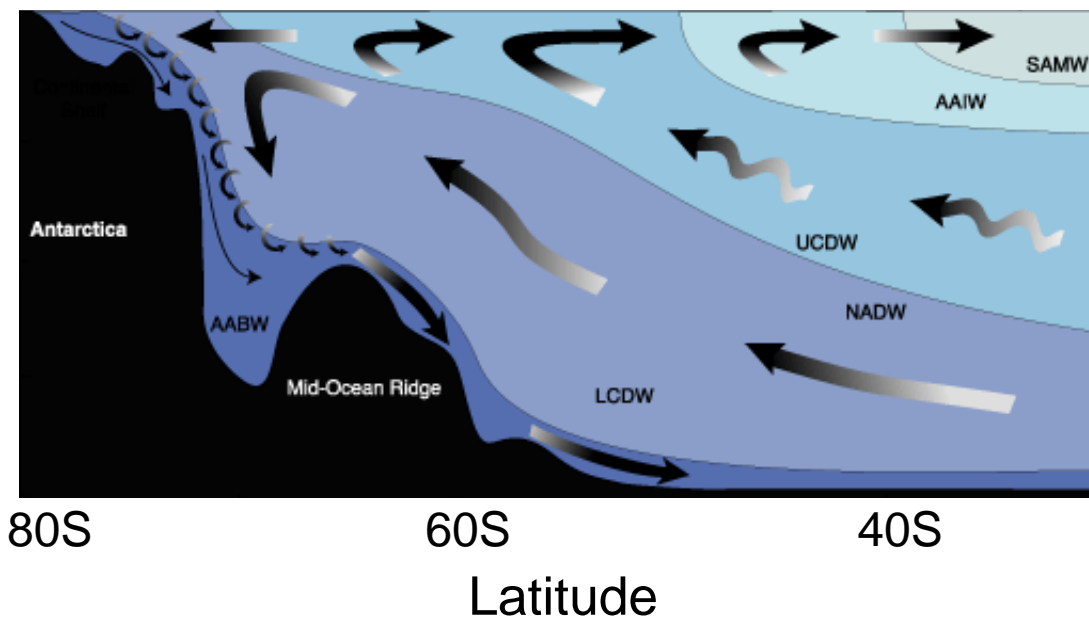
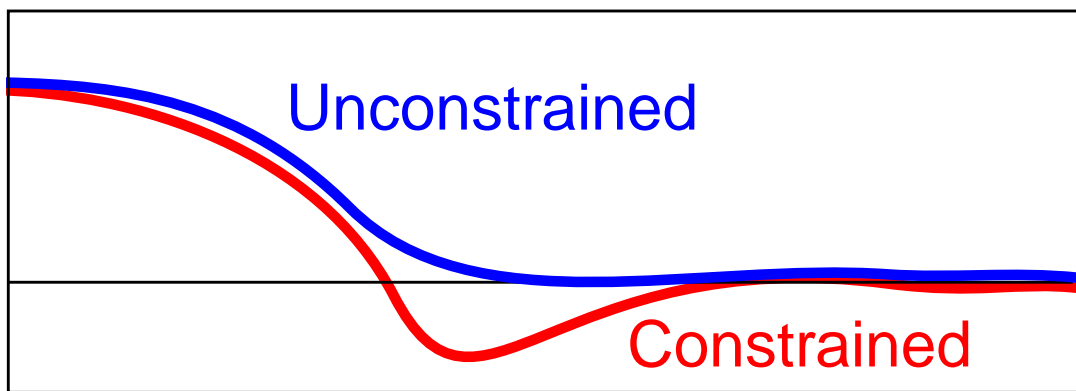
Southern Ocean controls



Not Flux Corrected
Flux Corrected



Temperature change



Review:

Separate S/T origins for NAM

SO control over SAM response

Stationarity and linearity matter



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Reprints:

Modes and mean change:

Fyfe, *J. Climate*, **16**, 863 (2003)

SH response

Fyfe, Boer, Flato, *GRL*, **26**, 1601 (1999)

Fyfe, *J. Climate (letters)*, in press

Stone, Fyfe, *GRL*, submitted

Nonlinear PCA

Monahan, Fyfe, Flato, *GRL*, **27**, 1139 (2000)

Monahan, Pandolfo, Fyfe, *GRL*, **28**, 1019 (2001)

Monahan, Fyfe, Pandolfo, *J. Climate*, in press



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Statistically speaking, there is an 85% chance that 4 out of 5 statisticians alter their data by at least 26%.

I don't like those odds.



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