Arctic Amplification

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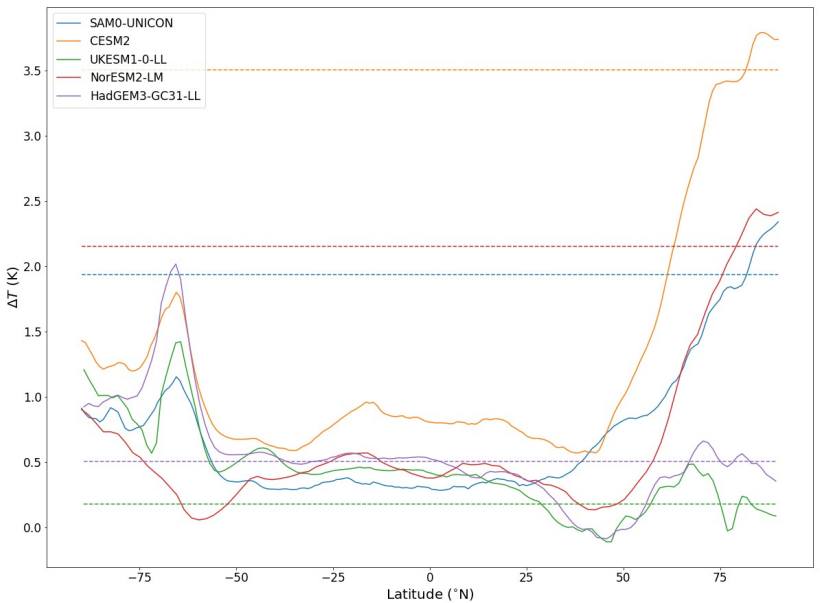
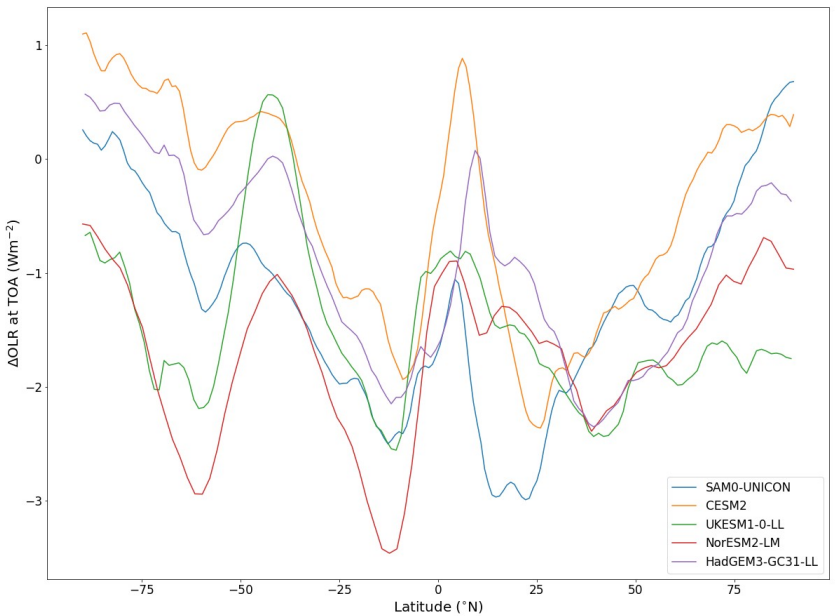
- **Goal:**
  Is there a great variation in the amount of high latitude warming among models in CMIP6?
  If the answer is yes; look at other variables to figure out what is causing the differences.



TAS(historical) – TAS(piControl)



OLR(historical) – OLR(piControl)

- **Plan:**

  For the same models, to explain the differences in the high latitude warming I'll look at

  - net radiation at the TOA: SW in – (SW out + LW out)
  - ice cover in each model
  - heat transport in the ocean / temperature profiles of the ocean
  - cloud radiative focing
  - aerosol radiative forcing