1. Climatology

PREC, Q, TMQ

Show with fully-coupled vs AMIP

Moisture transport and Divergence

Show that specific humidity is increasing/constant

Show that relative humidity is decreasing/constant

Remake Fig 1c,d

1. Area weighting

Redo RMSE, Trends

Redo WV feedback

The problem with the ERA5 kernels is that they're in temperature

1. ARs

Add CESM1-GOGA? and CESM-LENS

Find CESM1-LENS AR output from G&W?

Show that only one member has this trend.

Maybe check other periods

1. Show that the soil moisture in region 47 comes from...?

Smaller regions (9regions)

CEN with all the regions

1. Abstract
   1. Basic introduction (2-3)
   2. Brief account of the background and rationale of the work
   3. Statement of the main conclusions
   4. 2-3 sentences putting the main findings into general context so it is clear how the results described in the paper have moved the field forwards
2. Introduction
   1. Polar Amplification
   2. The rate of future warming still uncertain
   3. Recent studies have shown that summer warming is important
      1. Albedo -> decreased sea ice cover -> evaporation
      2. WV feedback
   4. Models show increasing specific humidity with constant relative humidity
      1. Observations show constant specific humidity with decreasing relative humidity
         1. Moisture availability
         2. Radiative frameworks assume fixed relative humidity (infinite moisture supply)
3. Trends in iCESM1
4. Sources of Remote Moisture Transport
   1. 62 % from land during summertime
   2. Atmospheric Rivers (80-92 % in NA pathway)
      1. Difference with large ensemble
   3. Central/East Eurasia
      1. Commonly examined pathways
   4. North American pathways
      1. Alaskan pathway
5. Water vapor feedback
   1. Importance of region 47
   2. Regions where trends show transport at higher altitudes have weaker feedback contribution
   3. Regions
   4. 92 % contribution from remote WV sources

**Figures**

1. Time Series
2. Year-to-year variability and Trends
3. Atmospheric Rivers
4. WV feedback
5. Small Regions
6. Land capacitor