

Models

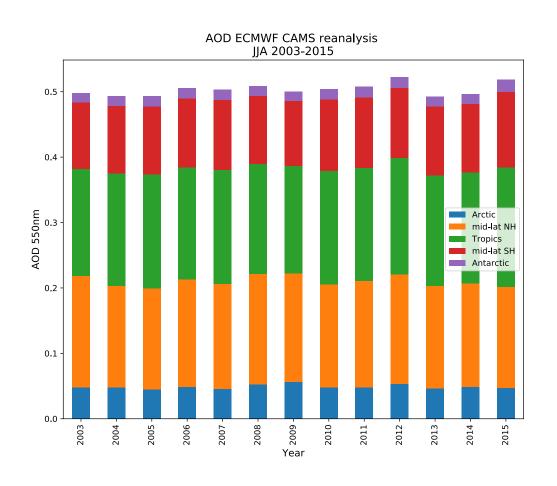
ECMWF CAMS reanalysis

- Global reanalysis of atmospheric compositions
- Period 2003-2018
- Resolution?
- Regions: arctic (70,90), mid- Seasons: JJA and DJF latitude NH (30,70), tropics (-30, 30), mid-lat SH (-70,-30), antarctic (-70, -90)

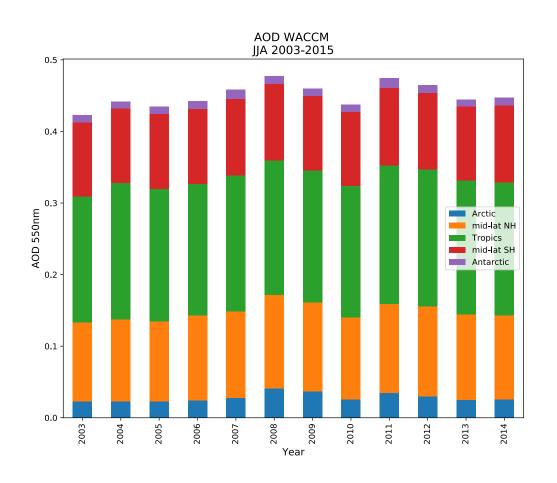
CMIP6

- CESM2-WACCM
- Historical forcing, period 1850-2014
- Grid resolution 0.9x1.25

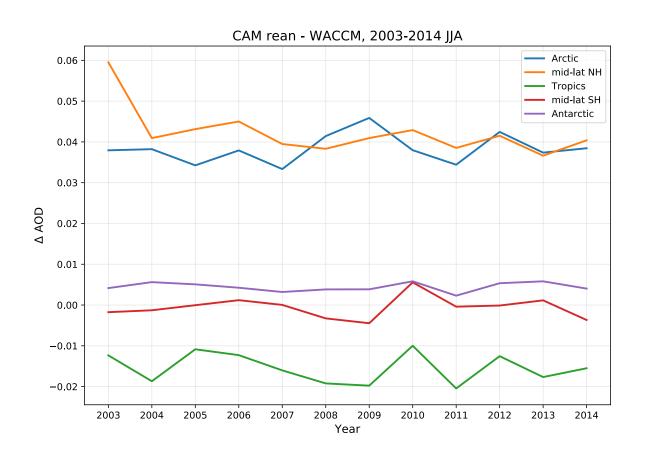
Total AOD reanalysis

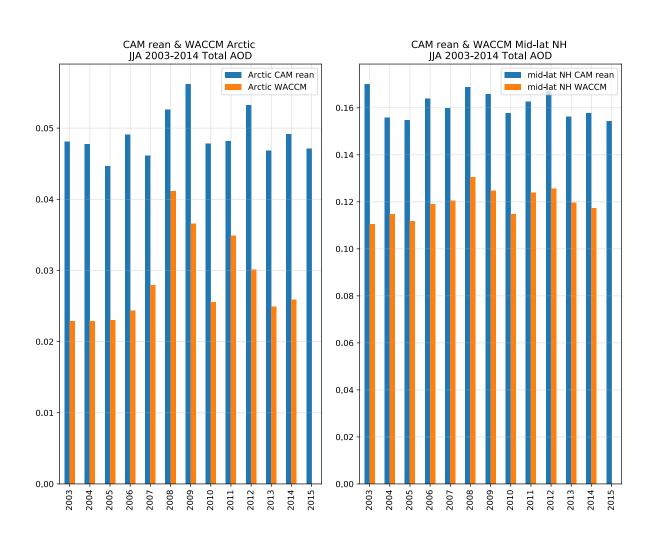


Total AOD WACCM

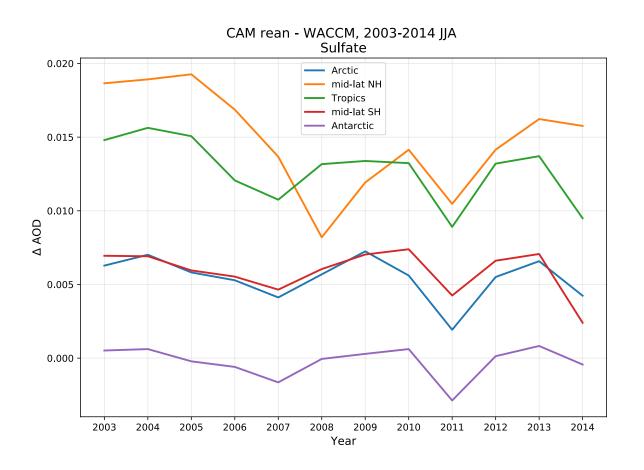


Difference CAM rean – WACCM season = JJA Total AOD

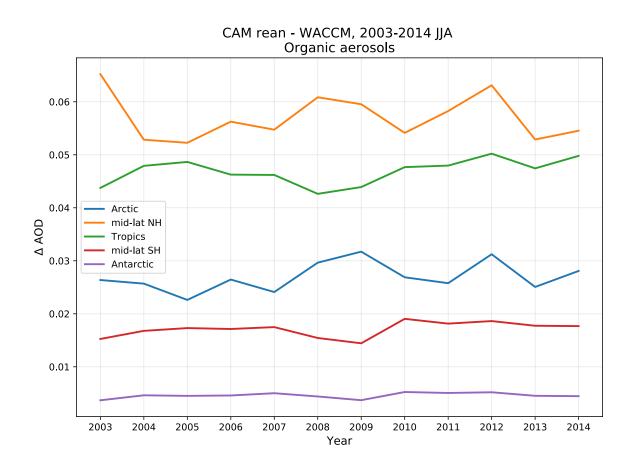




Difference CAM rean – WACCM season = JJA Sulfate



Difference CAM rean – WACCM season = JJA Organic Aerosols



Future work

- Make seasonal comparison –DJF
- Where do we find the largest deviations?
- Do all variables add up?

Referances

• Inness et al 2019, "The CAMS reanalysis of atmospheric composition"