CURRENT AND FUTURE CVCWG SIMULATIONS

2013

Single forcing simulations (CCSM4 complete, CESM1underway) Single forcing: idealized black carbon and sulfate CFMIP (completed) 0.25° CAM5-SE AMIP and coupled Hurricane effects, CESM4 1° Large ensemble Perturbed physics: single column and AMIP/fully-coupled

2014

Single forcing simulations BGC RCP runs at 1° Hurricane effects, CESM4 1° CESM1 at 0.25° (long term runs) CESM1/GLIMMER-CISM (ice sheets) Decadal Prediction CESM1/IAM at 1° Time slices at 0.25° Perturbed physics: land and atmos

2015

Single forcing at 0.25° Improved BGC RCPs at 0.25° CESM1 at 0.25° RCPs CESM1/GLIMMER-CISM Decadal prediction at 0.5° CESM1/IAM Time slices at 0.125°

CURRENT AND FUTURE CVCWG SIMULATIONS

2015-2016

CMIP6 for IPCC AR6 CAM5-SE at 0.0125° Decadal prediction with CESM1 at 0.5° CESM1 at 0.25° RCP runs CESM1/GLIMMER-CISM CESM1/BGC, RCP runs CESM1/IAM CESM2 at 0.25° CESM2/BGC at 0.25° Decadal prediction with CESM2 at 0.25° Time slices with CAM6-SE at 0.0625° and 0.0125°

CESM/CAM5 (1°) 1920-2080 30-Member Ensemble (historical + RCP8.5 forcing)

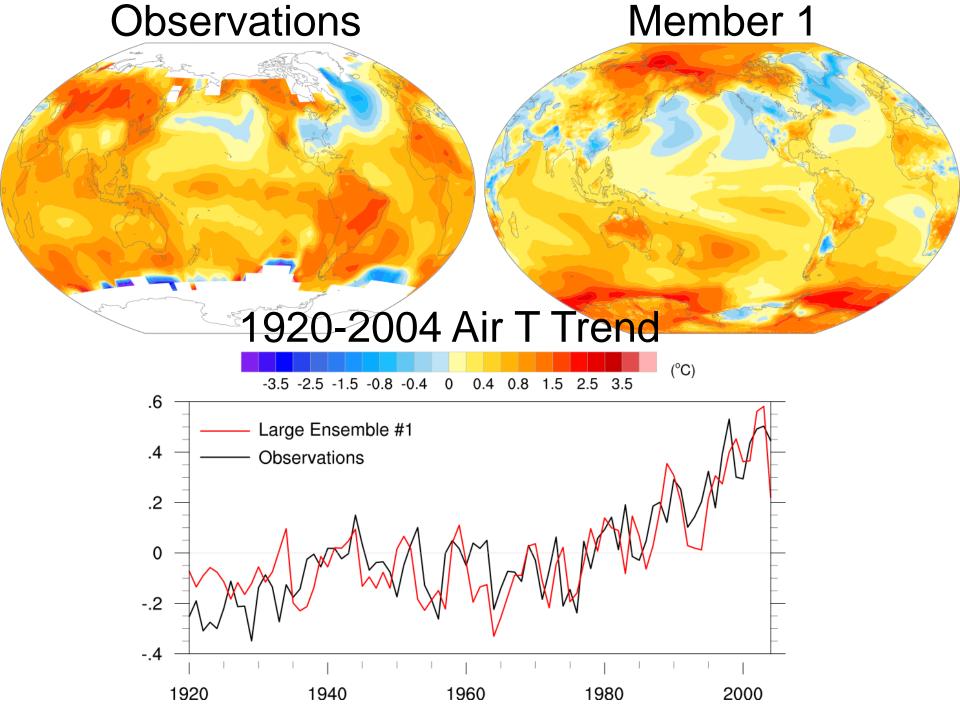
led by Clara Deser and Jen Kay

Wiki page

https://wiki.ucar.edu/display/ccsm/CESM+Large+Ensemble+Plann ing+Page

Email list

http://mailman.cgd.ucar.edu/mailman/listinfo/cesmcam5_lrgens

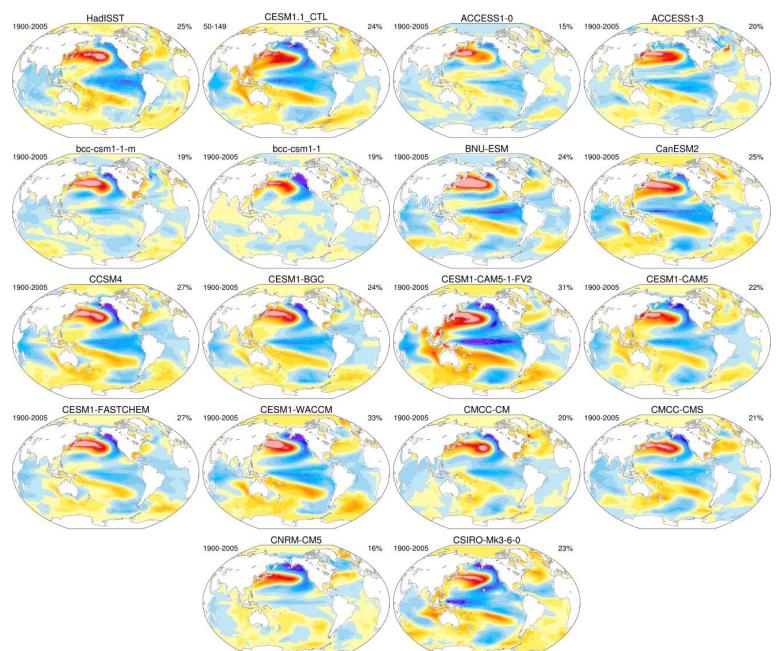


CESM Climate Variability Diagnostics Package (led by Adam Phillips and the Climate Analysis Section)

Purpose: To assess modes of coupled climate variability in CESM with comparison to observations and other CMIP5 models

We solicit your input!

Pacific Decadal Oscillation



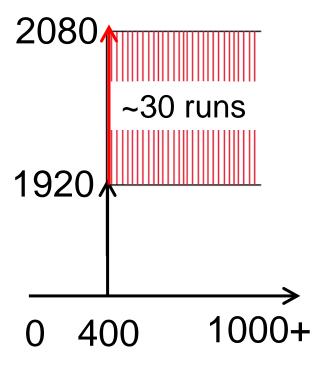
CAM4-1° 1871-2012 AMIP 5-member ensembles (Global Ocean, Tropical Ocean)

http://www.cesm.ucar.edu/working_groups/Climate/expe_ riments/cesm1.0/

To be repeated with CAM5-1°, with and without IPCC radiative forcings

CESM/CAM5 (1°) 1920-2080 Large Ensemble

- Historical and RCP8.5 forcing
- Ensemble created with round-off error in air temp.
- Continuous daily and monthly output plus decades with 6-hourly output
- Archiving single variable time series
- Each member will take ~2 weeks on Yellowstone



Year of 1850 Control Run

Status:

- 1850 control run at year 685
- First historical run complete (1850-2005)
- First RCP8.5 run started (2006-2080)