CVCWG Update & Plans

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NCAR is sponsored by the National Science Foundation
Simulations Completed and Published

- CESM1-CAM5 decadal prediction hindcasts (Steve Yeager leading, yeager@ucar.edu)
  - 61 start dates (1954-2014) 10 years in length
  - 40 members completed
- CESM1 1º (LENS tag) TOGA Ensemble – 10 members
  - ERSSTv3b, 1880-2016
  - ERSSTv4
- Tropical Pacific “Pacemaker” Ensemble (1920-2013)
  - SST anomalies in the eastern Pacific are nudged to observations
  - 20 members, uses RCP8.5 forcing

Simulations Underway

- CESM1.3 fully coupled 1/4° atm/lnd coupled to 1° ocn/ice
  - 1850 PI control, 20th Century, RCP2.6, RCP8.5, and climate sensitivity runs
- Pacemaker simulations (CESM1.1)
  - Relax SST to idealized +/-neutral states or observations
- CESM1.1 (LENS tag) single forcing simulations (all-but-one)
  - 1920-2005, 2006-2080 following RCP8.5
  - All forcings except GHGs (20 members)
  - All forcings except anthropogenic aerosols (20 members)
Upcoming Simulations

- CESM1 high resolution atm/ocn (0.25° atm/lnd x 0.1° ocn/ice)
  - Long PI control
  - LENS-style 20th – 21st Century
- CMIP6 with CESM2
  - Flux Anomaly MIP (FAFMIP)
  - Detection/Attribution MIP (DAMIP)
  - Decadal Climate Prediction Project (DCPP)
  - Polar Amplification MIP (PAMIP)
Useful Webpages

- CVCWG Website
  http://www.cesm.ucar.edu/working_groups/CVC/

- CVCWG published simulations
  http://www.cesm.ucar.edu/working_groups/CVC/simulations/cvcwg-simulations-finished-and-published.html

- Climate Data Guide
  https://climatedataguide.ucar.edu/

- Climate Variability Diagnostics Package (CVDP)
  - significant enhancements!
    http://www.cesm.ucar.edu/working_groups/CVC/cvdp/

- Decadal Prediction Large Ensemble
  http://www.cesm.ucar.edu/projects/community-projects/DPLE/

- Large Ensemble Project Page
  http://www.cesm.ucar.edu/projects/community-projects/LENS/

- Last Millennium Ensemble Project Page
  http://www.cesm.ucar.edu/projects/community-projects/LME/

- Low Warming Ensemble Project Page
  http://www.cesm.ucar.edu/experiments/1.5-2.0-targets.html
Discussion/Input from you!

- Simulations?
- Additions to the Climate Variability Diagnostics Package?
- Additions to the Climate Data Guide?