

CESM Paleoclimate WG - Updates

- **Earth System Grid**
 - **TraCE-21**: complete set of decadal-mean files, including now dynamic vegetation results.
 - **TraCE-21 single-forcing** (orbital, GHG, ice sheet, meltwater) results.
- **Production simulations** **Release after paper(s) completed by Principal Scientists*
 - **Last Millennium Ensemble**: **(1)** additional 850CE control with 6-hourly CAM data, **(2)** three additional 'All-forcing' simulations, **(3)** two 'medium' solar variability simulations*, **(4)** ocean radiocarbon and abiotic ^{13}C *. [CESM-CAM5.1]
 - **Glacial-Interglacial idealized forcing** (obliquity, precession, CO_2) simulations*. [CESM-CAM5.1]
 - **Pliocene sensitivity** (orbital, GHGs, gateways) simulations*. [CESM-CAM4]
- **PaleoCESM GitHub Resource**
 - FAQ, Code, and User Contributions
 - <https://github.com/CESM-Development/paleoToolkit/wiki>

CESM Paleoclimate WG - Plans

- **Isotopes (for CESM2 release)**
 - **Water isotopes.** Development branch of CESM1.3. Incorporated into CAM5.5 (MG2, CLUBB) and CLM5-BETR by this summer.
 - **Carbon isotopes.** Ocean (POP2, POP2-BGC) released. CLM5 needs testing. CAM5.5 by this summer.
- **CESM1.5**
 - **Paleo testing.** Over next months, use CMIP6 time periods to assess CESM1.5 developments.
- **CMIP6**
 - **CESM2 experiments.** Same configuration and resolution as historical and future scenarios.
 - **CMIP6/PMIP4.** Pliocene, Last Interglacial, Last Glacial Maximum, Holocene, Last Millennium. Plus additional sensitivity simulations for science.
 - **VOLMIP** – Tambora simulations. **ISMIP6** – Last Interglacial Greenland Ice Sheet simulations.