Paleoclimata Users Guide Online

Paleoclimata Users Guide Online for CESM1

Nan Rosenbloom
Christine Shields
Esther Brady
Historically, paleoclimate modelers have contacted the PWG liaisons for setup tools and scripts. Now we have a dynamic, interactive website for the CESM paleo modeling community.

<table>
<thead>
<tr>
<th>CCSM3</th>
<th>CESM1</th>
</tr>
</thead>
<tbody>
<tr>
<td>NCAR Technical Note</td>
<td>Paleoclimate Users Guide Online (Paleo-Online)</td>
</tr>
<tr>
<td>setup_tools.tar</td>
<td>setup_tools.tar CESM1 toolkit</td>
</tr>
</tbody>
</table>
What Paleo-Online can provide ....

- Template tools and scripts that we have developed and used for specific Paleo-WG simulations.
- Guidance on setting up Deep Time simulations
- Guidance on setting up Quaternary simulations
- Guidance on modifying paleoclimate forcings
- Guidance on related modelling topics (Earth System Grid, HPSS)
- Helpful comments from other users
What Paleo-Online CANNOT provide.....

– A tool for every problem.
– Project-specific tools and scripts
– Answers to science questions.
– Support for porting the model or our tools to your system
– Paleo-Online is not a blog.

*Every time period has unique requirements.*
Tools and scripts are developed to address specific problems. We try to keep the tools up to date, but ....

Paleo-Online is meant to be a community effort by the Paleo-WG
• How can YOU contribute?
• Add your constructive comments.
• What are Comments?
  – Comments facilitate a dialogue among paleo users.
  – Comments inform other users about tips, hints, or Gotchas that you wish YOU had known about before you started.
  – Comments are moderated.
  – You may not get a response from NCAR.
  – Notify NCAR directly to report errors.
Step 1. Create an account

- Email address
- Version: CCSM3, CESM1.0
- How do you use CCSM? Do you ...
  - run the model?
  - analyze model output?
  - all of the above?

- Who are you?
  - University affiliation
  - Student, researcher, professor
  - Research time period (Deep Time? Quaternary? Holocene?)
Step 2. Wait for email confirmation, then log in and reset your password.

You can navigate the site without registering or logging in but there are benefits to registering:

- You can contribute insights, corrections, or questions by adding a comment to a page. These comments are moderated, and are meant to help other users avoid re-inventing the wheel.
- It helps us to know who is using NCAR tools.
• So ... Here we go.
Paleo Documentation

DISCLAIMER: NCAR support for paleo climate modelling is limited to the NCAR Technical Note, and to documentation found in these webpages. Paleo climate modelling requires an expert level of understanding of general circulation models, which we cannot provide. These pages are intended to guide export users only by illustrating methods that have been successfully employed to further the science of the Paleo Working Group.

Link to the CESM PaleoClimate Working Group Webpage
Link to the CESM webpage
CCSM3.0 Paleo Users Guide
Download NCAR Technical Note: "Using CCSM3 for Paleoclimate Applications"

This document describes the procedures for creating a fully coupled (all components active) CCSM3 paleoclimate simulation.

We provide tools and examples of the process used to create paleoclimate simulations using the computing resources at the National Center for Atmospheric Research (NCAR). This document is to be used as a guide; researchers are ultimately responsible for modifying the process to accommodate their time period of interest as well as adapting the tools to their available computer resources.

CESM1.0 Paleo Users Guide - DRAFT

This document describes the procedures for creating a CCSM4-CESM1 paleoclimate simulation in the fully coupled (all active components) configuration. Note that CCSM4.0 experiments are equivalent to running CESM1.0 (CAM4).

We provide tools and examples of the process used to create paleoclimate simulations using the computing resources at the National Center for Atmospheric Research (NCAR). This document is to be used as a guide; researchers are ultimately responsible for modifying the process to accommodate their time period of interest as well as adapting the tools to their available computer resources.

TraceC-E 21ka simulation

The TraceC-E 21ka (Transient Climate Evolution) simulation is a continuous 21 ka year simulation extending from the Last Glacial Maximum (21ka B.P.) through 1990 CE. The TraceC-E simulation was run at Oak Ridge National Laboratory (ORNL) by a team of scientists and graduate students from the University of Wisconsin.

Recent comments
- List your bugs here
  - Title: Bugs I've known
    - Time: 22 hours 25 min ago
    - Body: Found a bug? Did a tool not work as advertised? Enter a comment to let others know!
  - Test comment
    - Title: CESM1.0 Paleo Users Guide - Draft
    - Time: 3 days 27 hrs ago
    - Body: I am a comment. Add YOUR comments here!

Bugs I've known

- CCSM3.0 Paleo Users Guide
- CESM1.0 paleo guide
- CESM1.0 Paleo Users Guide - Draft

Printer-friendly version
Paleo Working Group Feb 15-17, 2012
Paleo Working Group Feb 15-17, 2012
CESM continuously evolves. Tools and scripts become obsolete. You can help keep them relevant.

https://www2.cesm.ucar.edu/working_groups/Paleo/paleo-documentation

Thank you