

# **2025 CESM Tutorial**

**Day 3 Daily Logistics** 

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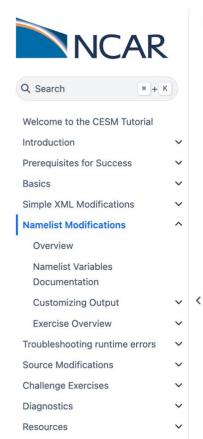
### **Agenda**

### Wednesday, July 9

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8:25-8:30
                   Daily logistics
8:30-9:150cean Modeling I: basics and overview of models (Gustavo Marques)
9:15-9:30Break (coffee + snack)
9:30-10:15
                   Ocean Modeling II: parameterizations/physics (Peter Gent)
                   Break (snacks)
10:15-10:30
                   Intro to Lab: Namelist and code changes (Cécile Hannay)
10:30-10:45
10:45-12:00
                   Lab exercises (Library)
12:00-1:15
                   Lunch on your own + activities
                            Meet a scientist (Breakout rooms: 12:15-1:00)
                            ML Public Tour (Meet at noon front door)
1:15-2:000cean Modeling III: biogeochemistry (Keith Lindsay)
2:00-2:15Break
2:15-2:25Lab exercises check in
2:25-4:20Lab exercises (Library)
4:20-4:33 Daily debrief
4:45
                   Shuttle Departs ML
```

### Lab documentation

### https://ncar.github.io/CESM-Tutorial/README.html





#### Namelist Modifications

There are several ways in which the model can be modified using namelist settings. This is what we cover in this chapter:

- The section Overview describes the steps to modify the namelists and provides a visual representation
  of the directories and files that need to be modified.
- The section *Documentation* explains how to find information about the namelist variables on the CESM webpage.
- The section Customizing output describes how to customize the output history files, such as changing
  the output frequency or adding variables to a file.
- The section Exercises offers opportunities to practice the concepts learned in this chapter.

Previous

Exercise 3: Change physics timestep



0 7 11 0

## Rough guidelines for the lab

Day 1: Basics

Day 2: Simple xml modifications

Day 3: Namelist, Troubleshooting,

Source Mods

Day 4: Diagnostics

Day 5: Challenge exercises

#### BUT

This is a **self-paced lab**.
We all come from different backgrounds. Some people will move faster, and some will move slower. It's completely okay.

- Susan Solomon: Solvable- How We Healed the Earth and How We Can Do It Again
  - Wednesday, July 9; 7 pm
  - Live Stream: <a href="https://sundog.ucar.edu/public/page/soloman">https://sundog.ucar.edu/public/page/soloman</a>



- Thanks to those who have added their information on the Slack #introductions
  - We have heard from past participants that networking and collaboration among tutorial participants has been beneficial
  - We will share a participants list on Friday please let Elizabeth know if you do not want your information included. We ask that you keep the contact information among participants and not share it with others.