



2024 CESM Tutorial

Daily Logistics

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Climate & Global Dynamics, NSF NCAR

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Code of Conduct

Here we value respectful dialogue, please . . .



CGD's Vision: A Culture of Respect & Belonging

<https://www.cgd.ucar.edu/about/diversity>

Report ethics concerns

<https://www.ucar.edu/who-we-are/ethics>

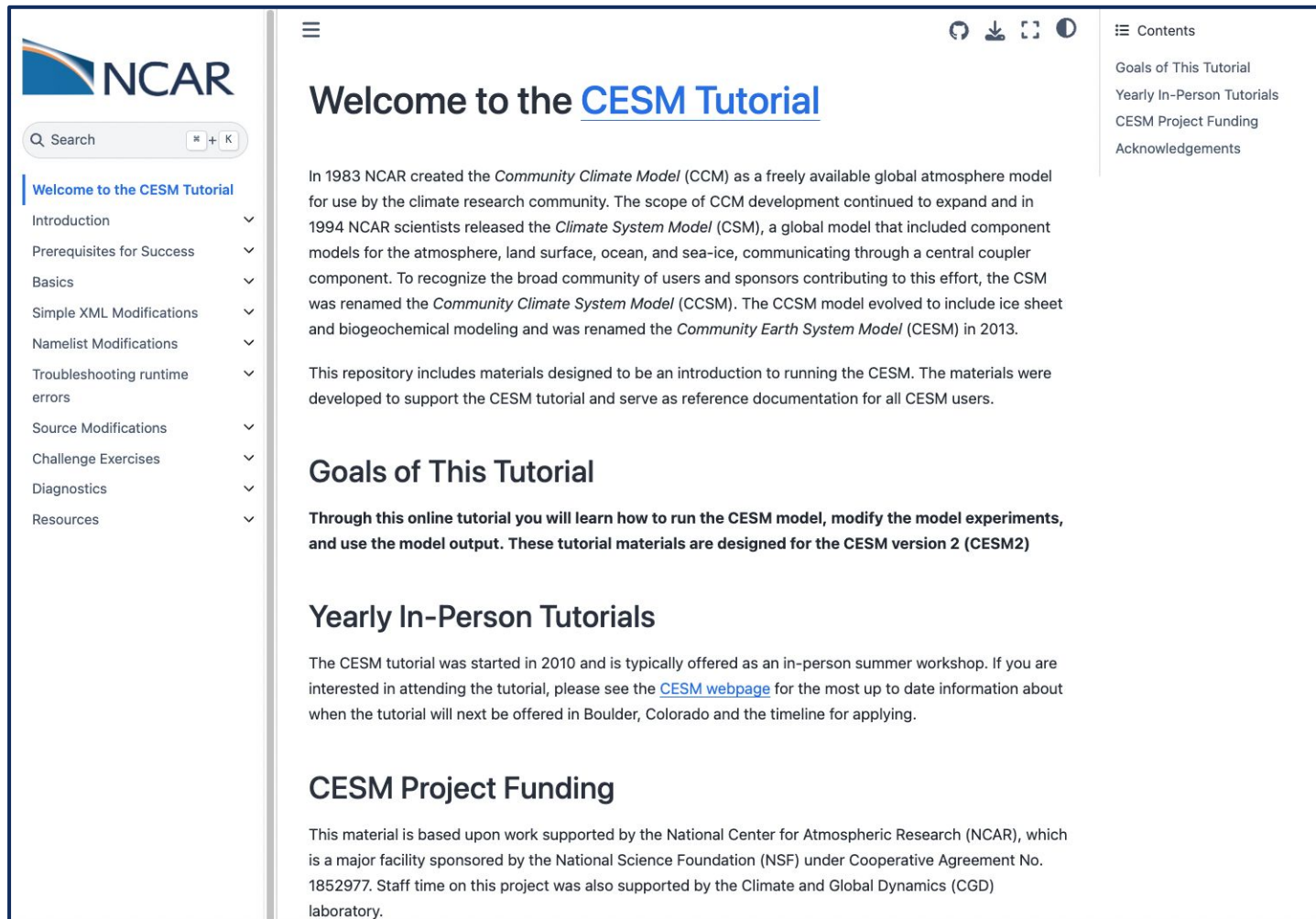
Norm	Meeting Agenda and Action
Share the Air OR Share Speaking Time	MEETING AGENDA: specify time for individuals with different and varied perspectives ACTION: Designate a facilitator (who encourages sharing). Speak concisely when it's your turn.
Show Appreciation & Acknowledge Teamwork	MEETING AGENDA: Include bright spots as an agenda item; create collaborative time during meetings ACTION: Include your team member's name on your slides, name who provided you with the idea
Listen to Understand	MEETING AGENDA: everyone summarizes ; write and share meeting minutes ACTION: Ask real questions to learn more , not to argue - for example, "Tell me more"
Communicate Context	MEETING AGENDA: Items or discussion start with background information ACTION: Describe the goal/purpose of the conversation/meeting
Value New Ideas & Encourage Innovation	MEETING AGENDA: specify time for new ideas/innovation, ACTION: "Tell me more," and build on others ideas - "yes, that's great , and.... (not but) "
Offer Constructive Feedback	MEETING AGENDA: make time for review and reflection ACTION: ask "what worked well?" Check your understanding. Ask "what feedback would be meaningful?"

Meet a scientist

A	B	C	D	E	F
	CESM Tutorial Meet A Scientist Schedule				
TUESDAY					
Scientist	Room	Participant	Participant	Participant	Participant
Will Wieder	Chapman	Aandishah Samara	Shihan Li	Song Jiang	
Christina McClusky	Inner Cafeteria	Abdulamid Fakoya	Ashok Gupta	George Gyabaah	Sisi Chen
Frank Bryan	Director's Confer	Hillary Beckmeyer	Sandra Manulat	Arghya Goswami	Cassia Cai
Peter Lawrence	Inner Cafeteria	Massimo Martina	Ran Qi	Lyssa Freese	Ishrat J. Dollan
Bette Otto-Bliesner	Outer Damon	Ana Isabel Gonzalez Mendez	Benjamin Tiger	Ibuki Sugiura	Meredith Parish
Jiang Zhu	Outer Cafeteria	Stephen Cropper	Becca Cleveland-Stout	Andrew Feder	Emily Wisinski
Wednesday					
Scientist	Room	Participant	Participant	Participant	Participant
Marika Holland	Director's Confer	Yu-Chi Lee	Samuel Brenner	Theo Carr	Chen Zhang
Kristen Krumhardt	Inner Damon	Chun Yin Anthony Chan	Prani Nalluri	Zhuyi Wang	Yiqun Tian
Alice DuVivier	Cafeteria	Maria Inês Bucu Cajada	Cyric Ng	Evan Meeker	Pappu Paul
Brian Dobbins	Cafeteria	Cameron Cummins	Temitope S. Egbeyi	Manish	
Adrianna Foster	Chapman	Ben Felzer	Tyler Tatro	Trent Robinett	
Gunter Leguy	Outer Damon	Sioumin Tsao	Saidat Rasaan-Balogun	Franz	
Thursday					
Scientist	Room	Participant	Participant	Participant	Participant
Jesse Nusbaumer	Cafeteria	Andrew Reiser	Qingyuan Yang	Emily Hayden	Madeleine Beckner
Hui Li	Chapman Room	Cong Gao	Fouzia Fahrin	Ishrat J. Dollan	Yiqun Tian
Peter Lauritzen	Director's Confer	Noah Kravette	Bob Payne	Hsing-Hung Chou	Luca Jeongsuk Oh
Monica Morrison	Cafeteria	Carly Frank	Frank Mackenzie	Selena Zhang	Shannon
Isla Simpson	Inner Damon	Holly Thomas	Yifei Fan	Sam Bartusek	Prasad Shelke
Meg Fowler	Outer Damon	Greta Miller	Julia Miller	An-Yi Huang	José Luis Del Castillo Castillo

Did everyone find the lab documentation?

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



The screenshot shows the 'Welcome to the CESM Tutorial' page. The header includes the NCAR logo, a search bar, and a navigation menu with the following items: Introduction, Prerequisites for Success, Basics, Simple XML Modifications, Namelist Modifications, Troubleshooting runtime errors, Source Modifications, Challenge Exercises, Diagnostics, and Resources. The main content area is titled 'Welcome to the CESM Tutorial' and contains the following text: 'In 1983 NCAR created the Community Climate Model (CCM) as a freely available global atmosphere model for use by the climate research community. The scope of CCM development continued to expand and in 1994 NCAR scientists released the Climate System Model (CSM), a global model that included component models for the atmosphere, land surface, ocean, and sea-ice, communicating through a central coupler component. To recognize the broad community of users and sponsors contributing to this effort, the CSM was renamed the Community Climate System Model (CCSM). The CCSM model evolved to include ice sheet and biogeochemical modeling and was renamed the Community Earth System Model (CESM) in 2013. This repository includes materials designed to be an introduction to running the CESM. The materials were developed to support the CESM tutorial and serve as reference documentation for all CESM users.' Below this text are sections for 'Goals of This Tutorial', 'Yearly In-Person Tutorials', and 'CESM Project Funding'. The 'Goals of This Tutorial' section states: 'Through this online tutorial you will learn how to run the CESM model, modify the model experiments, and use the model output. These tutorial materials are designed for the CESM version 2 (CESM2)'. The 'Yearly In-Person Tutorials' section states: 'The CESM tutorial was started in 2010 and is typically offered as an in-person summer workshop. If you are interested in attending the tutorial, please see the CESM webpage for the most up to date information about when the tutorial will next be offered in Boulder, Colorado and the timeline for applying.' The 'CESM Project Funding' section states: 'This material is based upon work supported by the National Center for Atmospheric Research (NCAR), which is a major facility sponsored by the National Science Foundation (NSF) under Cooperative Agreement No. 1852977. Staff time on this project was also supported by the Climate and Global Dynamics (CGD) laboratory.'

Rough guidelines for the lab

Day 1: Basics

Day 2: Simple xml modifications

Day 3: Namelist, Troubleshooting, Source Mods

Day 4: Challenge exercises (Breakout rooms)

Day 5: Diagnostics

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.

Reminder for people leaving

- If you are leaving on Friday:
 - check with the admin team registration desk for the shuttle schedule
 - check out of the hotel on Friday morning
 - bring your bags with you to the Mesa Lab
- If you are leaving on Saturday:
 - Are you going back to the hotel? Let the admin team know by noon on Thursday
 - Consider coordinating rides to the RTD station
 - Check the RTD schedule for weekend times - buses do not run as regularly
 - Consider traffic in Boulder and the security lines at Denver Airport

Denver Airport TSA

<https://www.flydenver.com/security/>

Questions ?



Image courtesy Kolya Dols