July 6, 2026

2026 CESM Tutorial

Daily lab check - in

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NCAR CGD

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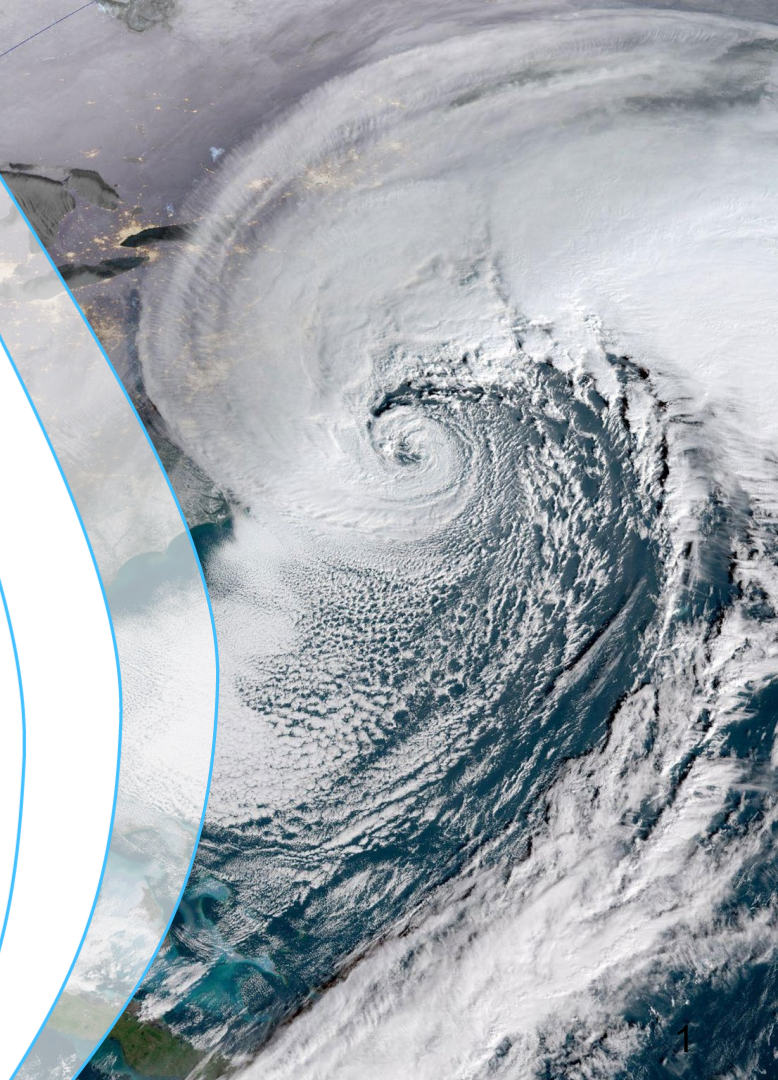
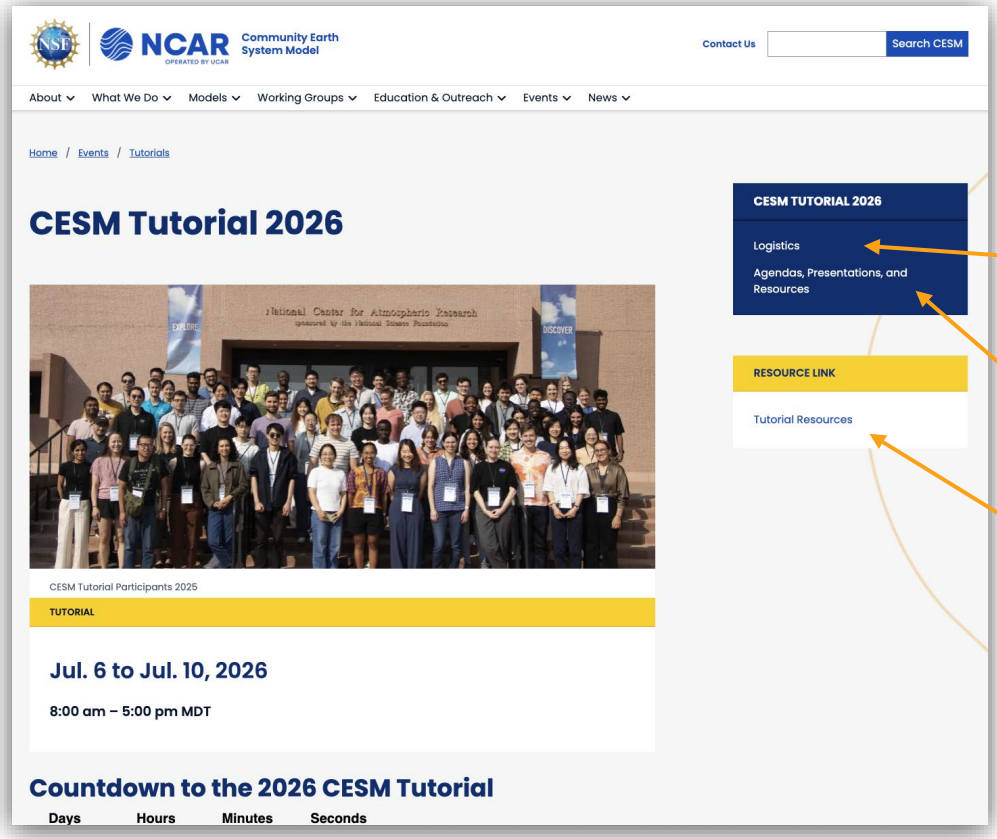


CESM Tutorial Website



https://www.cesm.ucar.edu/events/tutorials/cesm

OR Search "cesm tutorial 2026 ncar"

Additional info about logistics. photos, etc

agenda (including slides of lectures)

lab materials

Did everyone find the lab documentation?

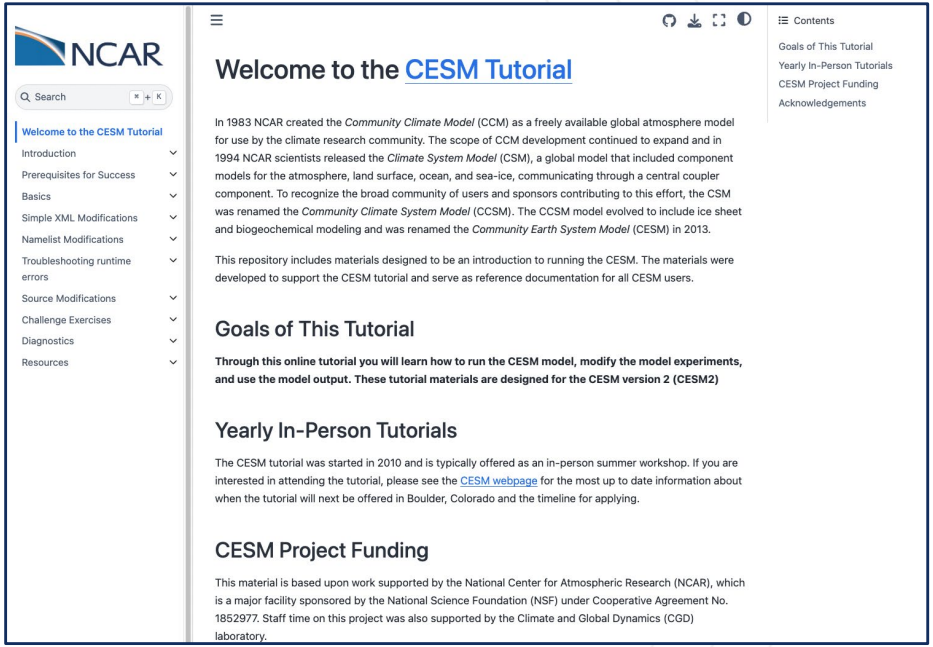
https://ncar.github.io/CESM-Tutorial/README.html

Rough guidelines for the lab

Day 1: Basics
Day 2: Simple xml modifications
Day 3: Namelist, Troubleshooting, Source Mods
Day 4: Challenge exercises
Day 5: Diagnostics

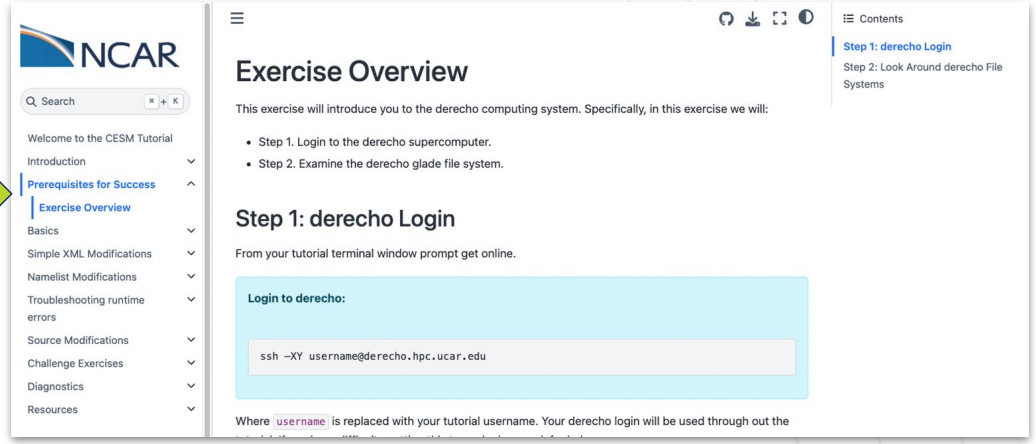
BUT

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.

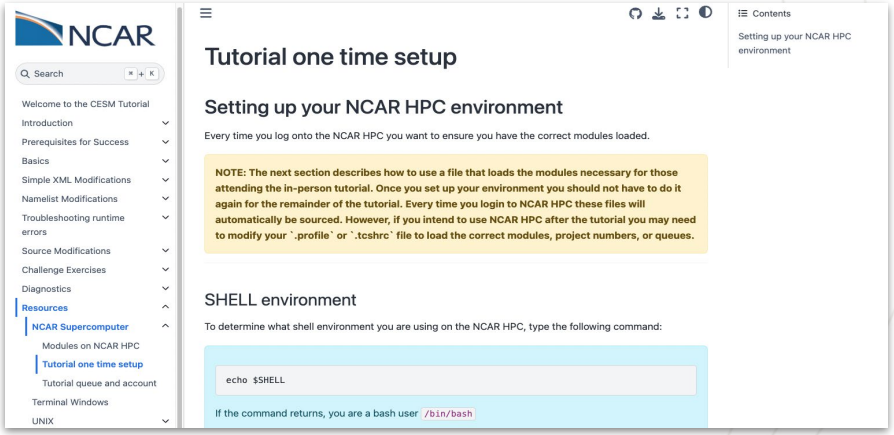


Today

1. Prerequisites for success



2. Tutorial one - time setup

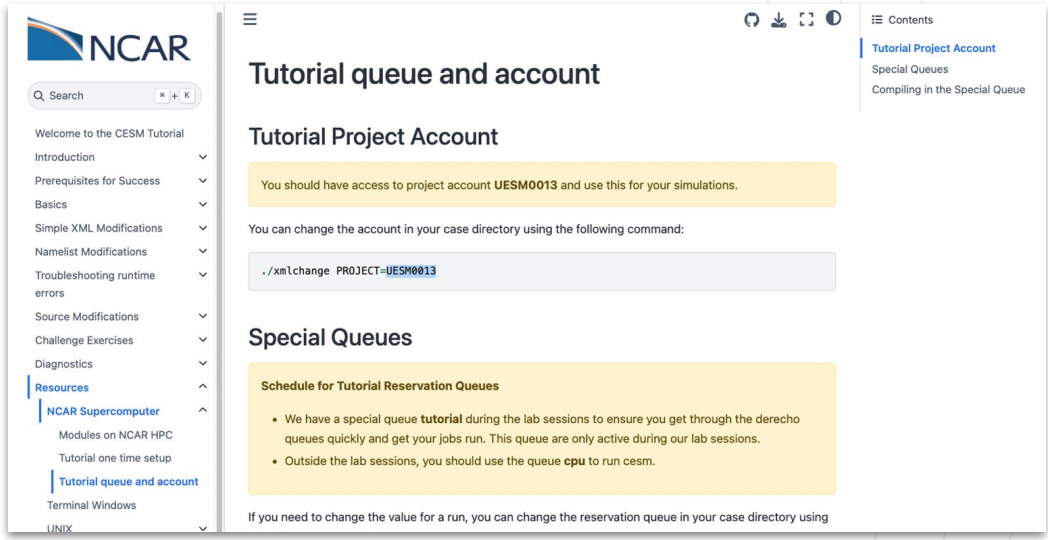


Project account and reservation queues

As a full time participant, you should have access to

- account number: UESM0016
- reservation queue: tutorial

Instructions how to use these are here:



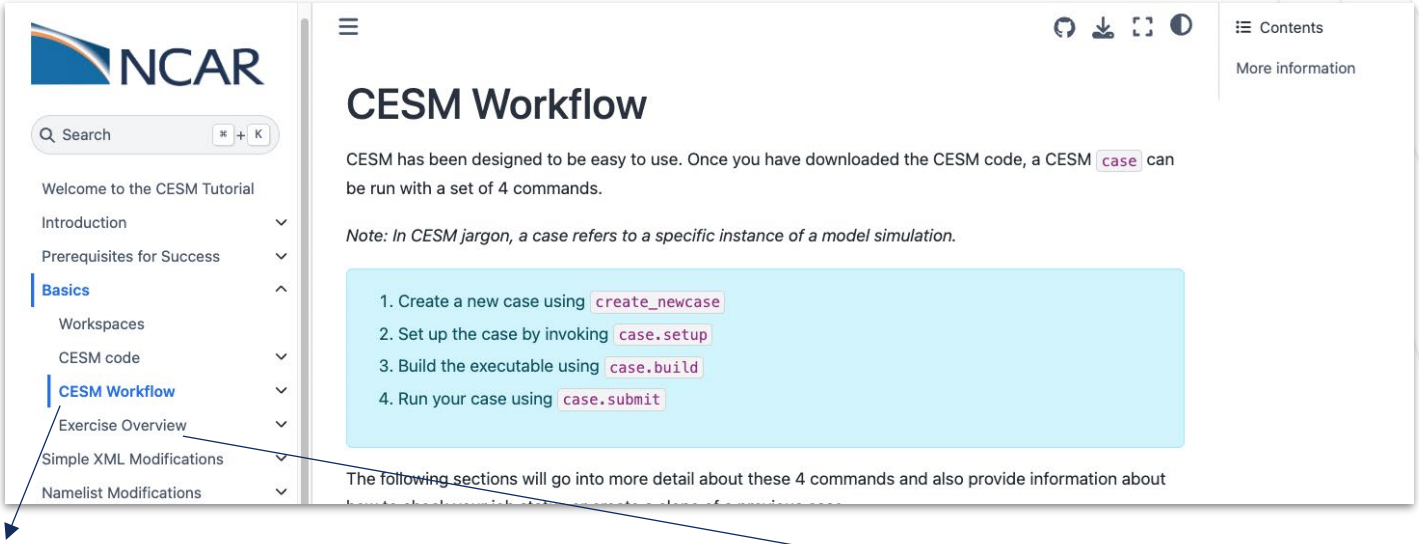
A ve access to these (Sorry!)

The tutorial queue

Before submitting the jobs, change the queue to the 'tutorial' queue:

```
./xmlchange JOB_QUEUE=tutorial --force
```

Chapter: Basics



CESM workflow doesn't expect you to enter command

Example of basic `./create_newcase` syntax:

```
./create_newcase --case /glade/u/home/$USER/cases/CASE --res RES --compset COMPSET
```

NOTE: Do not enter the example above at the command line. You will create your first case in the Exercise at the end of this section.

▼ Click here for the solution

Create a new case `b1850.basics` with the command:

```
cd /glade/u/home/$USER/code/my_cesm_code/cime/scripts
./create_newcase --case /glade/u/home/$USER/cases/b1850.basics --res f19_g17 --compset B
```