

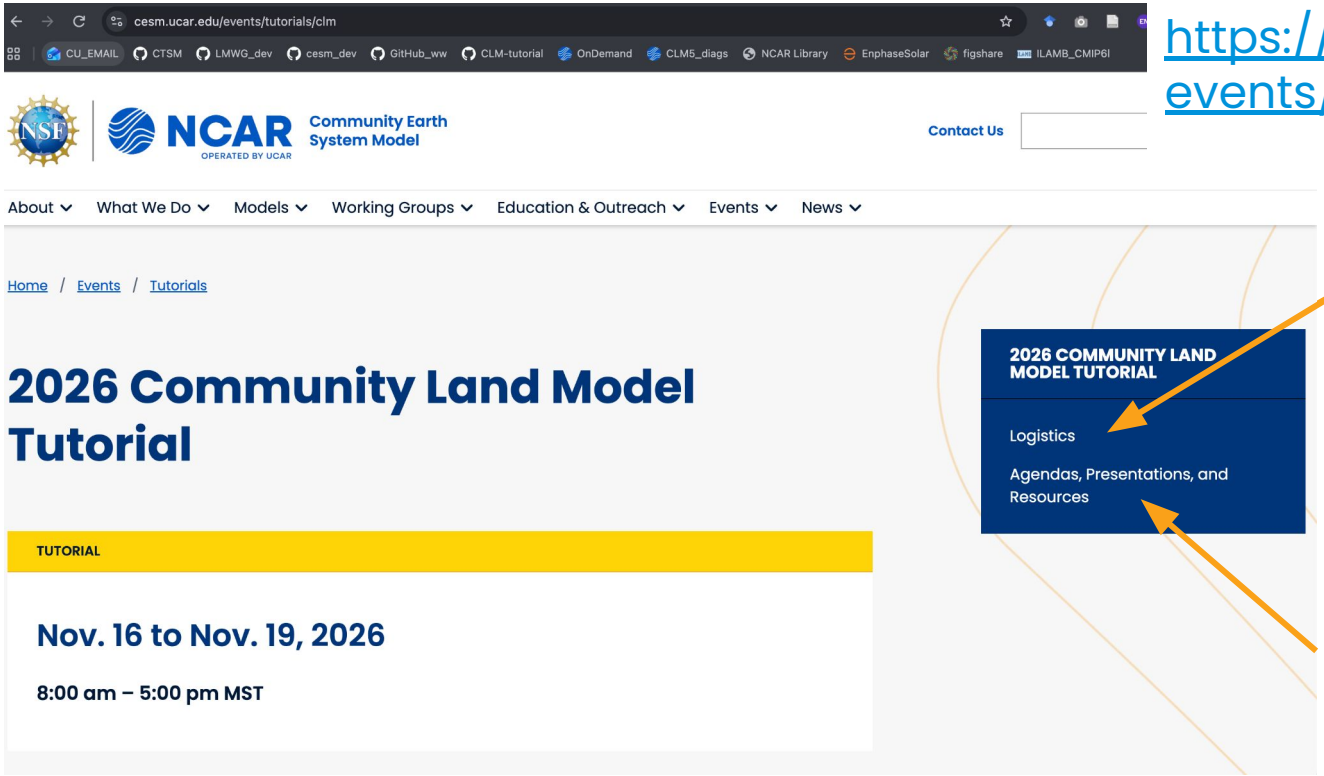
Nov 16, 2026

2026 CLM Tutorial

Daily lab check-in

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NSF-NCAR, CGD, TSS

CLM Tutorial Website



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

Practical materials & additional info about logistics, photos, etc.

Agenda (including slides of lectures)

Did everyone find the lab documentation?

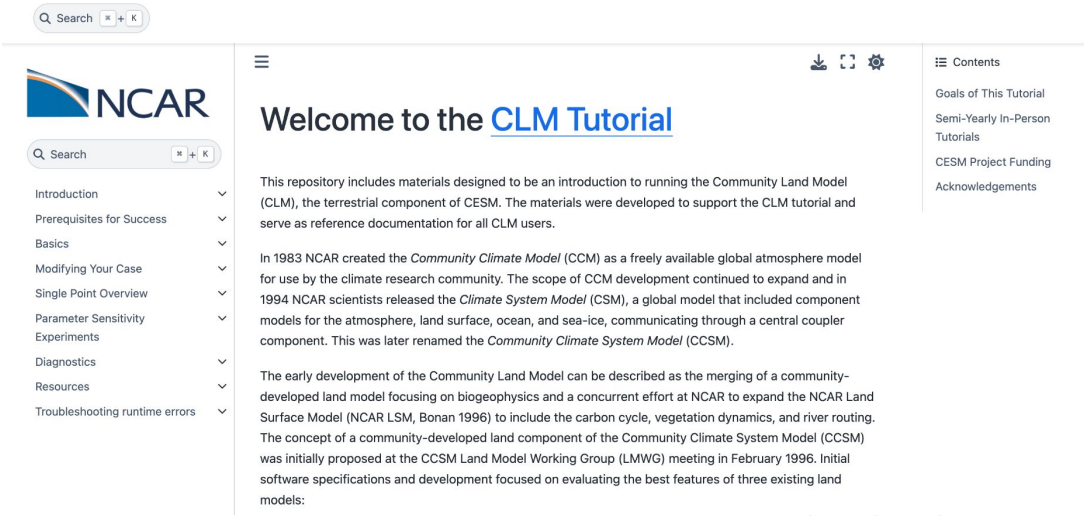
https://ncar.github.io/CLM-Tutorial/README.html

Rough guidelines for the lab

Day 1: Basics and your first CLM run
Day 2: Modifying experimental design
Day 3: Single point simulations
Day 4: Diagnostics

AND

This is a **self-paced lab.**
We all have different experience levels. Some of you will move faster and some will move slower. It's completely okay.



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Rough guidelines for the lab

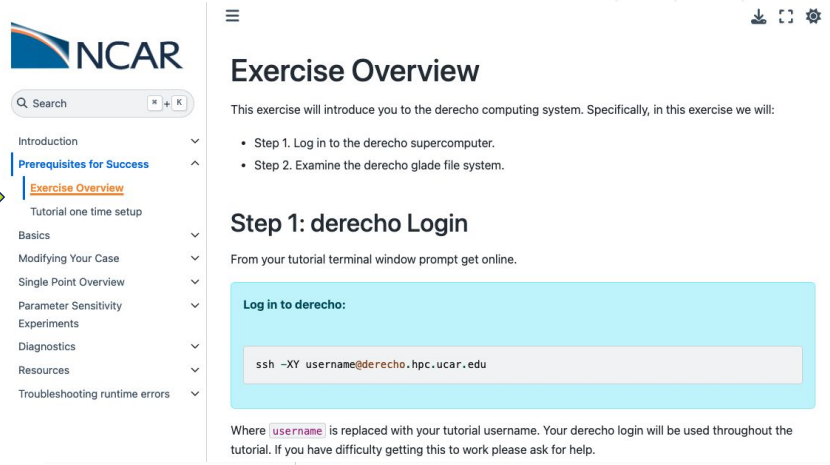
Day 1: Basics and your first CLM run

- Login: Get on derecho
- One time setup
  - .profile
- Dowload CLM code
  - git-fleximod
  - Set up conda environment

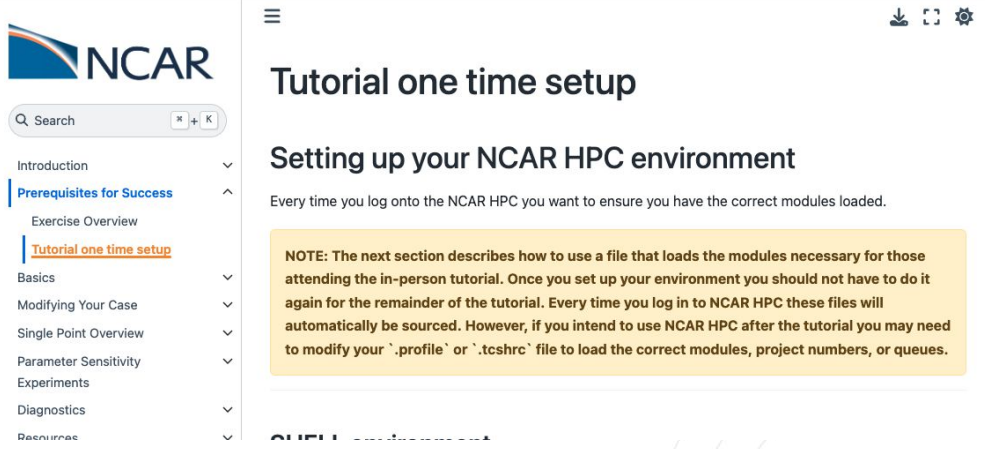
- Run CLM!

Prerequisites: Login & setup

1. Prerequisites for success
   a. Exercise (login)



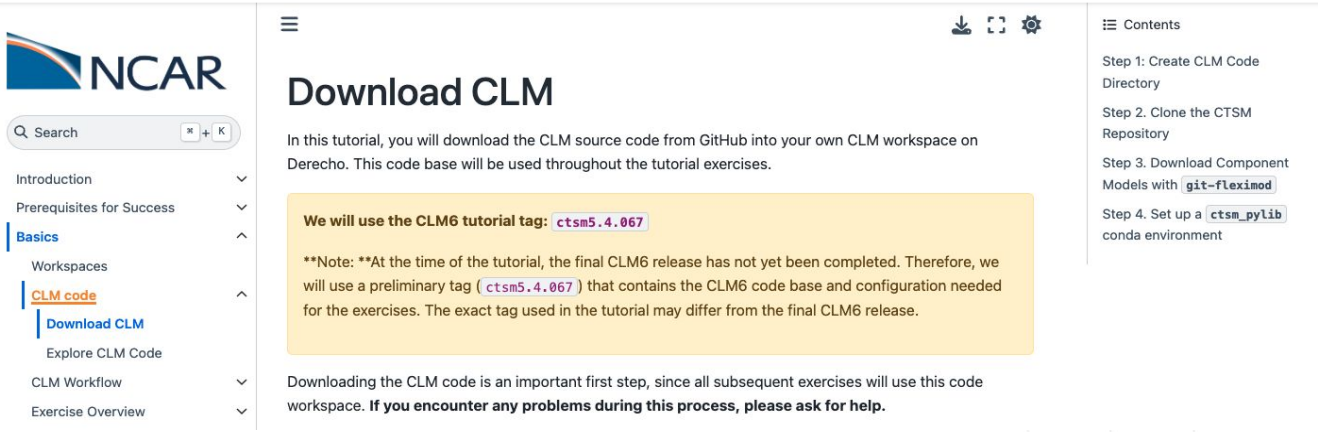
   b. Tutorial one time setup



Basics: Download and Run CLM

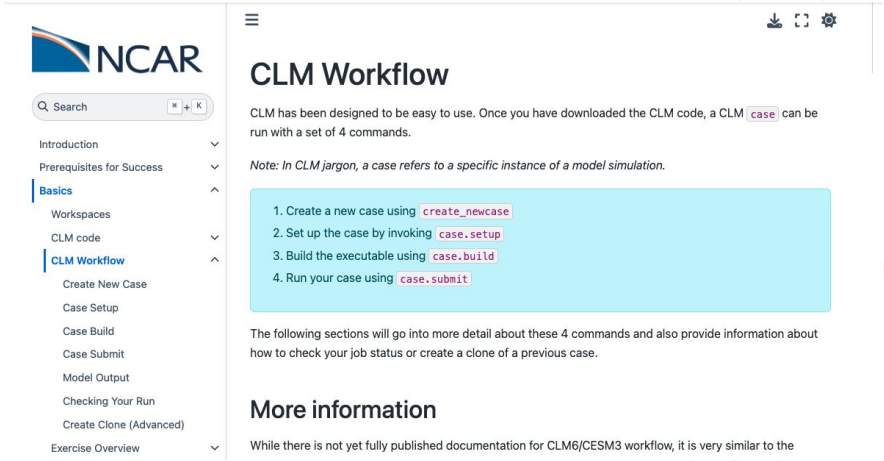
2. Basics
   a. CLM Code





   b. CLM Workflow





Basics: CLM Workflow and Exercise



CLM workflow doesn't expect you to enter commands

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.

Commands are entered in **Exercise overview**

▼ Click here for the solution

Create a new case `i1850_sp.basics` with the command:

```
cd /glade/u/home/$USER/code/my_clm_code/cime/scripts
./create_newcase --case /glade/u/home/$USER/cases/i1850_sp.basics --res f19_f19_mt233 --compset
```

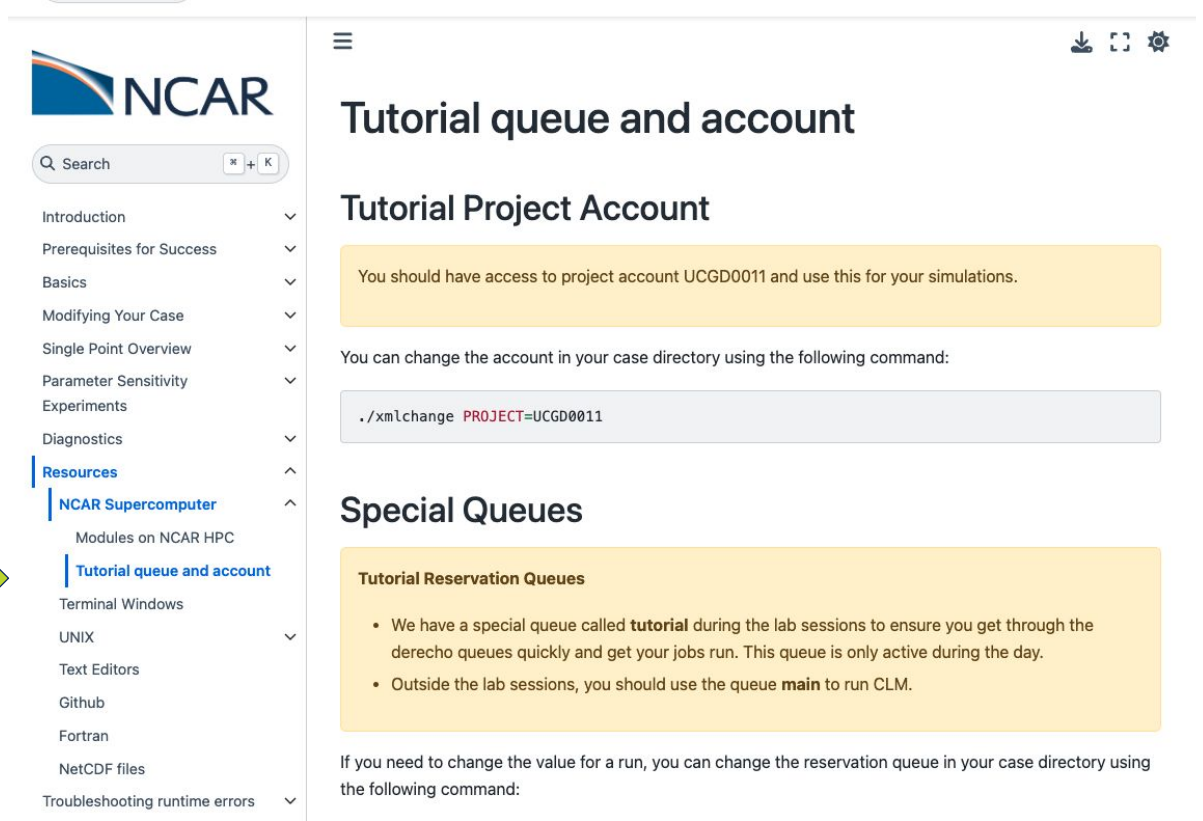
Project account and reservation queues

As a full time participant, you should have access to

- account number: UCGD0011
- reservation queue: tutorial

Instructions how to use these are here:





The tutorial queue

Before submitting the jobs, change the queue name:

./xmlchange JOB_QUEUE=tutorial --force