

CESM 2019 Tutorial

- **Welcome to NCAR (Bette Otto-Bliesner– CGD Deputy Director)**
- **Some logistics (Keith Oleson and Barbara Ballard)**
- **Creating welcoming environments for everyone (Carolyn Brinkworth)**



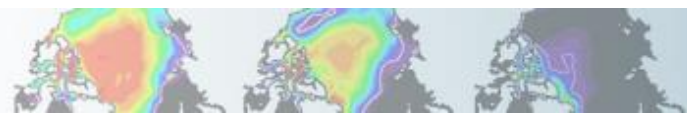
U.S. DEPARTMENT OF
ENERGY

Office of
Science

Welcome to NCAR




We are thrilled you are here !



CESM tutorial website

www.cesm.ucar.edu/events/tutorials/2019/

2019 CESM TUTORIAL




The 2019 CESM Tutorial will take place 05 - 09 August 2019 at the National Center for Atmospheric Research in Boulder, CO.

The CESM Tutorial will consist of:

- Lectures on simulating the climate system
- Practical sessions on running CESM, modifying components, and analyzing data

The CESM Tutorial is targeted at the graduate student level. We can accept a maximum of 80 students with partial financial support (shared lodging and ground transportation) for some students. We are unable to fund airline tickets or per diem. Whether or not you apply for travel funds has no bearing on the selection process.

The 2019 CESM Tutorial Facebook group is to facilitate communication between members and organizers where members are welcome to post pictures, questions/replies, and tips. To join the group click [here](#) or the button below.

 2019 CESM Tutorial Facebook Group

Tutorial Details

- **Dates:** 05 - 09 August 2019
- **Location:** NCAR Mesa Lab, Boulder, CO [\[More info\]](#)
- **Registration:** Closed 08 March 2019

Tutorial Links

- **Agenda:** View the agenda in pdf format
- **Announcement:** Information about the event and how to apply to the tutorial
- **Prerequisites:** Please complete the following activities to ensure you are prepared for the tutorial
- **Coursework:** View the sciences presentations and the labs exercises.
- **Visitor Wireless:** How to access the UCAR Visitor Wireless



If you need to find the link:
Google “CESM Tutorial”



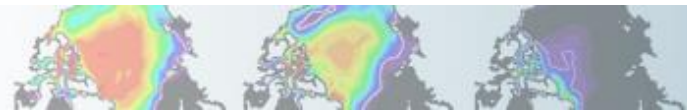
Facebook group (closed group)

- To facilitate communication (info, questions, pictures,...)
- You can post too !



Links

Agenda, presentations, lab exercises and quizzes are online (or will be soon)



Typical Day (*)

(*) Friday is a bit different
Check your agenda

Morning

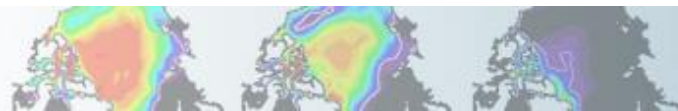
- Breakfast on your own
- Science lectures (Main Seminar Room)

Lunch

- On your own at the cafeteria
- Optional activities: Specialized Talks (T,W,R)
 Meet a Scientist (Thursday)

Afternoon

- Introduction to the labs in the Main Seminar room
- Labs in Damon Room or Library
- Dinner on your own / Ice-breaker in Cafeteria on Monday



Morning Lectures

Formal lectures

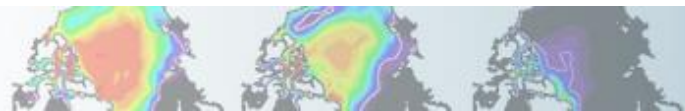
- Coupled model
- Components: atmosphere, land, ocean, sea-ice, land ice

Application lectures

- Examples about how the CESM (and other climate models) are used for studies

Breaks

- Two 15-minutes breaks
- Snack during the first break (be prompt)



Afternoon Labs

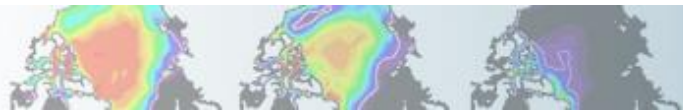
Where ?

- Intro in the main seminar room ([here](#))
- Labs in the Damon/Library (2nd floor)
- Room assignment: [Here](#)
- Snacks for everybody in the Damon room

How ?

- Lab exercises are posted on the [tutorial website](#)
- Work in pairs (please alternate who is typing)
- Use your laptop or a terminal (4 people requested terminals + a few extra)
- Terminals are in Damon room only

Break-out sessions on Friday



Lunch activities (Optional)

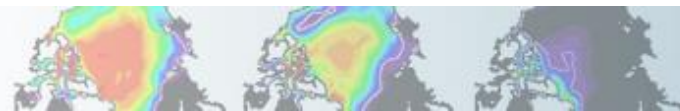
Go for a Hike or just enjoy the view

Specialized Talks (Tuesday, Wednesday, Thursday; 1:00-1:30pm)

- Simpler Models
- Coupling/Tuning
- Porting Session

Meet a CESM scientist (Thursday, 11:45-12:45)

- In the cafeteria – Bring your lunch to the scientist's table
- Pick your scientist (7 options): our [scientist bios](#)
- Sign up for a spot (Maximum 5 students per scientist, first come-first serve)
Send your choices at oleson@ucar.edu (Specify: 1st, 2nd and 3rd choice)
- Check your [scientist assignment](#) Thursday morning



Quizzes

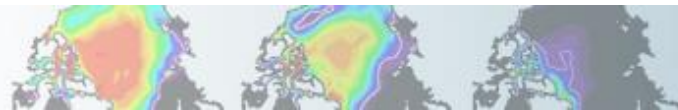
What ?

- Administered by Cecile Hannay
- One daily quiz: Monday – Thursday
- Quizzes requires a short one-time registration on the COMET/MedEd webpage - see the quizzes link at the bottom of the [Tutorial web page](#)

Why/How ?

- Goal: Learning experience
- You can take the quiz as many times as you want.
- You are encourage to talk to your neighbor, your instructors, look in your coursework, on the CESM webpage.
- Those who get a perfect score will receive a special certificate.

Don't stress out ! Relax and have fun !



Bus schedule

Morning Bus (Hotel => NCAR)

The buses depart Tuesday-Friday at 8:00 am

Afternoon Bus (NCAR => Hotel)

The buses leave NCAR

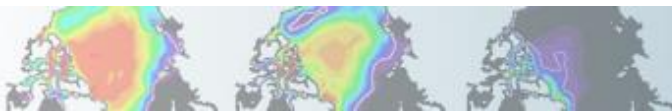
- at 7:00PM (Monday)
- at 5:15PM (Tuesday-Thursday)
- at 3:30PM (Friday)

Don't miss the bus !



Some more logistics

- **Packets:** Barbara Ballard
- **Wireless:** UCAR guest/EDUROAM (see [tutorial website](#) for details)
- **Group picture:** Friday at 10:30 (Ryan Johnson, ISG)
- **Storing luggage:** If you need to check out of the hotel on Friday, we'll have a room for you to keep your bags during the day.
- **Smoking area:** Other side of Tree Plaza.
- **To avoid altitude sickness:** Drink water!
- **Any issues/questions:** Come talk to me.



Thanks

- **Tutorial Organizing Committee:**

Susan Bates, Alice DuVivier, Cécile Hannay, Gunter Leguy, Gustavo Marques, Keith Oleson, Adam Phillips, and Christine Shields

- **Logistics:** Barbara Ballard & Elizabeth Faircloth

- **Funding:** NSF and DOE

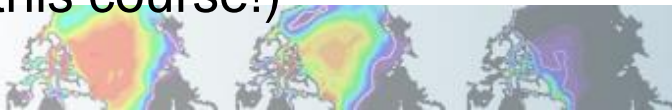
- **Computing:** CISL support (Rory Kelly) and CGD IS Group (Mark Moore)

- **Audio/Video Support:** Paul Martinez

- **Photography:** Ryan Johnson

- **Speakers, Helpers, and Developers** (all volunteers)

- **Students:** You (for wanting to take this course!)



Creating Welcoming Environments for Everyone

Carolyn Brinkworth, UCAR Chief Diversity Officer



At NCAR|UCAR, we strive to create an environment of full inclusion - a supportive and welcoming workplace that values all individuals and their perspectives, contributions, and ideas in the pursuit of NCAR|UCAR's mission. We recognize the enormous scientific and societal benefits of including and valuing different perspectives and ways of thinking, and understand that diversity and inclusion are a fundamental requirement in achieving our goal of innovative, world-leading science and engineering.

Inclusion of different ways of thinking requires the recruitment, development, and retention of individuals with different perspectives, experiences, and values. These include but are not limited to the dimensions and intersections of race, ethnicity, gender identity and expression, sexual orientation, socio-economic status, age, physical abilities, neurodiversity, body shape and size, veteran status, religious beliefs, political beliefs, country of origin, discipline, job category, education level, cultural background, and marital and parental status.

At NCAR|UCAR, our goal is to build a diverse and inclusive workforce and workplace environment.

Whatever your identities, or intersection of identities, you are welcome here at NCAR|UCAR.

Rule 1: Be kind!
To your fellow attendees

Rule 2: Be kind!
To your instructors

Rule 3: Be kind!
To yourselves

- Applies to everyone – attendees, instructors, UCAR staff
- Applies to all venues & situations
- People are here to learn, not to get a date!
- Remember this is a professional environment
- If you need help, contact Keith, Barbara, or Carolyn

- All-gender restrooms – 2nd floor mezzanine near the exhibits, and all restrooms in the towers are single-stall (room numbers 370, 414, 471, 474, 514, and 572)
- Lactation room – 017C (level 2B) and 35B (level 1B)
- Vegetarian, vegan, and gluten free food options in the cafeteria for lunch, but you may need to bring gf snacks for breaks

This is your learning space – use it in the way you need to maximize your learning

Questions?

Keith Oleson
(oleson@ucar.edu)

Barbara Ballard
(bballard@ucar.edu)

Carolyn Brinkworth – Chief Diversity Officer
(carolyn@ucar.edu; cell: 720-619-1459)