

CESM Polar Modeling Workshop
NCAR Mesa Lab
Aug 12-Aug 16
All sessions will be held in the ML Damon Room

Monday, Aug 12 – CESM basics, poster session

- 9:00 Welcome, plans for workshop, goals for the week – Marika Holland, NCAR
- 9:30 Introductions, group icebreakers
- 10:00 Coffee Break
- 10:30 Lecture: CESM Basics – Dave Bailey, NCAR
- 11:30 Practical session: Run a CESM experiment with code modifications
- 12:30 Lunch and short walk
- 2:00 Preparing computing proposals for CISL – Dave Bailey, NCAR
- 2:30 Practical session: Analyze CESM experiment using CESM postprocessing suite, command line tools, analysis software
- 4:00 Reception, poster session in Mesa Lab Cafeteria
- 6:00 Adjourn
- 6:15 Bus back to hotel

Tuesday, Aug 13 – Model hierarchy day

- 9:00 Introduce plan for the day
- 9:10 Lecture: Model hierarchies with a focus on coupling – Alice DuVivier, NCAR
- 10:00 Practical session 1: Model hierarchies - Hansi Singh, University of Victoria
- 10:30 Coffee Break
- 10:30 Practical session 1: Model hierarchies cont.
- 11:30 Practical session 1 debrief/discussion
- 12:00 Lunch
- 1:30 Group work on project proposal
- 2:30 Practical session 2 Introduction - Bill Lipscomb, NCAR
- 2:45 Practical session 2: Ice sheet models
- 3:00 Snack service
- 4:30 Practical session 2 debrief/discussion
- 5:00 Adjourn

Wednesday, Aug 14 – Model parameterization day

- 9:00 Plan for the day
- 9:05 Lecture: Treatment of surface spectral emissivity: towards more faithful longwave radiative coupling in the CESM – Xianglei Huang, U. Michigan
- 10:00 Coffee Break
- 10:30 Practical session 1 – Xianglei Huang, U. Michigan
- 11:30 Practical session 1 debrief/discussion
- 12:00 Lunch
- 1:30 Group work on project proposal
- 2:30 Lecture: Improving radiative treatment in sea ice – Bonnie Light, U. Washington

- 3:00 Snack service
- 3:30 Practical session 2 – Marika Holland and Dave Bailey, NCAR
- 4:30 Practical session 2 debrief/discussion
- 5:00 Adjourn
- 6:30 Workshop dinner at Marika’s house

Thursday, Aug 15 - Polar predictability and variability day

- 9:00 Introduce Plan for the day (with brief mention of CESM resources)
- 9:05 Lecture: Predictability fundamentals, seasonal to interannual predictability, and operational forecast needs – Jonny Day, ECMWF
- 10:15 Coffee break
- 10:45 Practical session 1: Initial value predictability and/or predictors for seasonal predictability
- 12:00 Lunch
- 1:30 Practical session 1 debrief/discussion
- 2:00 Lecture: Boundary forced change in the presence of internal variability – Jan Lanaerts, U Colorado
- 2:30 Practical session 2: Boundary forced change
- 3:30 Break
- 4:00 Practical session 2 debrief/discussion
- 4:30 Group work time
- 5:00 Adjourn

Friday, Aug 16 – Wrap up, participant presentations

- 9:00 Introduction
- 9:05 Group work time to finalize proposals
- 10:00 Coffee
- 10:30 Student presentations to CESM experts
- 11:30 Collect workshop feedback
- 12:00 Adjourn

GROUND TRANSPORTATION TO/FROM NCAR

University of Colorado (CU) buses will arrive each morning around 8am. The buses will pull in right next door at the Hilton Embassy Suites. Please ask the hotel lobby for directions if you're not sure. Please confirm with your driver that the bus is traveling to NCAR's Mesa Lab.

Date	Departure	Arrival
Monday, 8.12	Hotel @ 8:05am	Mesa Lab @ 8:25am
Monday, 8.12	Mesa Lab @ 6:15pm	Hotel @ 6:35pm
Tuesday, 8.13	Hotel @ 8:05pm	Mesa Lab @ 8:25am
Tuesday, 8.13	Mesa Lab @ 5:15pm	Hotel @ 5:35pm
Wednesday, 8.14	Hotel @ 8:05am	Mesa Lab @ 8:25am
Wednesday, 8.14	Mesa Lab @ 5:15pm	Hotel @ 5:35pm
Thursday, 8.15	Hotel @ 8:05am	Mesa Lab @ 8:25am
Thursday, 8.15	Mesa Lab @ 5:15pm	Hotel @ 5:35pm
Friday, 8.16	Hotel @ 8:05am	Mesa Lab @ 8:25am

** Hilton Garden Pickup every day at 8:05am in front of the Hilton Embassy Suites*

** Mesa Lab Pickup every day at 5:15pm--except for 8.12 at 6:15pm due to reception.*

** As many people will be checking out of the hotel on the 16th, there will be no afternoon bus. If you are checking out, you can bring your belongings with you on the bus. If you are returning to the hotel, please see our UCAR shuttle instructions below.*

What happens if you miss the bus or need to return to the hotel on Friday?

UCAR offers a free shuttle service to the Mesa Lab. White or Red UCAR Shuttle vans leave from next to the Burger King just around the corner from the hotel. [You can find the shuttle schedule here.](#) The stop is listed as 28th/Canyon. Ask the hotel for directions if you're not sure--and confirm with the shuttle driver that you're going to the Mesa Lab.