

Community Earth System Model (CESM) Tutorial 2013
NCAR Mesa Lab, Boulder, CO
12 – 16 August 2013
Main Seminar Room – morning lectures & practical intro
Damon Room / Fleischman Building – afternoon practical labs

Monday, August 12

- 8:30-8:45 Welcome, Intro, Logistics (Bates)
- 8:45-9:45 Lecture 1: Introduction to the coupled system (Holland)
- 9:45-10:15 *Break*
- 10:15-11:15 Lecture 2: Atmosphere Modeling I: Intro & Dynamics (Lauritzen)
- 11:15-11:45 Practical Session 1 Intro: Introduction to NCAR computing environment (Kelly/CISL)
- 11:45-1:00 *Lunch (on your own)*
- 1:00-2:30 Practical Session 1 Intro: Run CESM (Santos)
- 2:30-3:00 *Break (during Practical Lab)*
- 2:30-5:00 Practical Lab 1: Including computer setup
- 5:00-7:00 *Reception*

Tuesday, August 13

- 8:30-9:30 Lecture 3: Atmosphere Modeling II: Physics (Neale)
- 9:30-9:45 *Break*
- 9:45-10:45 Lecture 4: Atmos. Modeling III: Chemistry, Aerosols and WACCM (Tilmes)
- 10:45-11:00 *Break*
- 11:00-12:00 Lecture 5: Land modeling I: Biogeophysics (Lawrence)
- 12:00-1:30 *Lunch (on your own)*
- 1:30-2:30 Practical Session 2 Intro: Run CESM: Simple Modifications (Shields)
- 2:30-3:00 *Break (during Practical Lab)*
- 2:30-5:00 Practical Lab 2

Wednesday, August 14

- 8:30-9:30 Lecture 6: Land Modeling II: Ecosystem Modeling (Levis)
- 9:30-9:45 *Break*
- 9:45-10:45 Lecture 7: Ocean Modeling I (Yeager)
- 10:45-11:00 *Break*
- 11:00-12:00 Lecture 8: Ocean Modeling II (Danabasoglu)
- 12:00-1:30 *Lunch (on your own)*
- 1:30-2:30 Practical Session 3 Intro: Diagnostics and Output (Phillips)
- 2:30-3:00 *Break (during Practical Lab)*
- 2:30-5:00 Practical Lab 3

Thursday, August 15

- 8:30-9:30 Lecture 9: Sea Ice Modeling (Bailey)
- 9:30-9:45 *Break*
- 9:45-10:45 Lecture 10: Biogeochemistry (Lindsay)
- 10:45-11:00 *Break*
- 11:00-12:00 Lecture 11: Applications: Modeling Isotopes in the CESM (Brady/Jahn)
- 12:00 Photo (Henson)

Thursday, August 15 (continued)

- 12:00-1:30 *Lunch (on your own)*
1:30-2:30 Practical Session 4 Intro: Namelist and Code Modifications (Hannay)
2:30-3:00 *Break (during Practical Lab)*
2:30-5:00 Practical Lab 4

Friday, August 16

- 8:30-9:30 Lecture 12: Land Ice Modeling (Fyke)
9:30-9:45 *Break*
9:45-10:45 Lecture 13: Applications: Climate Change (Kiehl)
10:45-11:00 *Break*
11:00-12:00 Practical Session 5 Intro
Breakouts:
 - Ocean/Sea Ice/Land Ice (Levy, Bailey, Sacks, Fyke)
 - Land/BGC (Levis, Oleson, Kluzek, Lindsay)
 - Atmosphere/Chem/WACCM (Coleman, Tilmes)

12:00-1:00 *Lunch (on your own)*
2:30-3:00 *Break (during Practical Lab)*
1:00-3:00 Practical Lab 5
3:00 Adjourn