

Community Earth System Model (CESM) Tutorial 2011

NCAR Mesa Lab, Boulder, CO

August 1-5, 2011

Main Seminar Room – morning lectures & practical intro

Damon Room / Cafeteria – afternoon practical labs

Monday, 8/1

8:30-8:45 Welcome, Intro, Logistics
8:45-9:45 Lecture 1: Introduction to the coupled system (Hurrell)
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
11:45-1 Lunch
1-2:30 Practical Session 1 Intro: Run CESM [Kauffman]
2:30-5 Practical Lab 1: Including computer setup
5-7 Reception

Tuesday, 8/2

8:30-9:30 Lecture 3: Atmosphere Modeling II: Physics (Neale)
9:45-10:45 Lecture 4: Atmosphere Modeling III: Chemistry, Aerosols and WACCM (Lamarque)
11-12 Lecture 5: Land modeling I: Biogeophysics (Lawrence)
12-1:30 Lunch
1:30-2:30 Practical Session 2 Intro: Run CESM 2: Simple modifications [Shields]
2:30-5 Practical Lab 2

Wednesday, 8/3

8:30-9:30 Lecture 6: Land Modeling II: Ecosystem Modeling (Levis)
9:45-10:45 Lecture 7: Ocean Modeling I (Bates)
11-12 Lecture 8: Ocean Modeling II (Danabasoglu)
12-1:30 Lunch
1:30-2:30 Practical Session 3 Intro: Diagnostics and Output [Phillips]
2:30-5 Practical Lab 3

Thursday, 8/4

8:30-9:30 Lecture 9: Sea Ice Modeling (Holland)
9:45-10:45 Lecture 10: Biogeochemistry (Long)
11-12 Lecture 11: Applications: Climate Change (Meehl)
12-1:30 Lunch
1:30-2:30 Practical Session 4 Intro: Namelist and Code Modifications [Hannay]
2:30-5 Practical Lab 4

Friday, 8/5

8:30-9:30 Lecture 12: Land Ice Modeling (Lipscomb)
9:45-10:45 Lecture 13: Applications: Paleoclimate Modeling (Otto-Bliesner)
11-12 Practical Session 5 Intro: Breakouts: Ocean/Ice (Norton/Bailey), Land/BGC (Levis),
Atmosphere/Chem/WACCM (Tilmes, Neale, Mills)
12-1 Lunch
1-3 Practical Lab 5