

Conference papers/proceedings:

Web materials for all lectures and practical sessions are available from:

<https://www2.cesm.ucar.edu/events/tutorials/2014>

Name of conference: 2014 CESM Tutorial

Location of conference: National Center for Atmospheric Research, Boulder, CO

Date of conference: August 11 – August 15, 2014

Conference sponsor: Department of Energy and National Science Foundation

Agenda:

Monday, August 11

8:30-8:45	Welcome, Intro, Logistics (Phillips)
8:45-9:45	Lecture 1: Introduction to the coupled system (Lamarque)
9:45-10:15	Break
10:15-11:15	Lecture 2: Atmosphere Modeling I: Intro & Dynamics (Lauritzen)
11:15-11:45	Practical Session 1: 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	Tutorial Information Exchange

Tuesday, August 12

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, Mills)
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 13

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)
10:45-10:55	Break
10:55-12:10	Applications 1: CESM Research Reports (Hannay, Ren, Sanderson, Stevenson, Thomas)
12:10-1:00	Lunch (on your own)
1:00-1:30	Porting Session (Edwards)
1:30-2:30	Practical Session 3 Intro: Diagnostics and Output (Phillips)
2:30-3:00	Break (during Practical Lab)
3:00-5:00	Practical Lab 3

Thursday, August 14

8:30-9:30	Lecture 8: Ocean Modeling II (Yeager)
9:30-9:45	Break
9:45-10:45	Lecture 9: Biogeochemistry (Lindsay)

10:45-11:05	Break
11:05-12:05	Lecture 10: Sea Ice Modeling (Bailey)
12:05	
12:05-1:30	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 15

8:30-9:30	Lecture 11: Land Ice Modeling (Fyke)
9:30-9:45	Break
9:45-10:45	Applications 2: Climate Predictions and Projections in the Coming Decades: Uncertainty Due to Natural Variability (Hurrell)
10:45-11:00	Break
11:00-12:00	Practical Session 5 Intro Breakouts: • Ocean/Sea Ice/Land Ice (Levy, Bailey, Sacks) • Land/BGC (Levis, Kluzek, Lindsay) • Atmosphere/Chem/WACCM (Coleman, Tilmes, Mills)
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

Participants:

The following individuals provided lectures, practical sessions and administrative and computer support for the tutorial:

David Bailey, NCAR
Barbara Ballard, NCAR
Daniel Coleman, NCAR
Jim Edwards, NCAR
Jeremy Fyke, LANL
Cecile Hannay, NCAR
James Hurrell, NCAR
Al Kelly, NCAR
Erik Kluzek, NCAR
Jean-Francois Lamarque, NCAR
Peter Lauritzen, NCAR
David Lawrence, NCAR
Samuel Levis, NCAR
Keith Lindsay, NCAR
Michael Mills, NCAR
Richard Neale, NCAR
Adam Phillips, NCAR
Xiaolin Ren, NCAR
William Sacks, NCAR
Ben Sanderson, NCAR
Sean Santos, NCAR
Christine Shields, NCAR

Samantha Stevenson, NCAR
Robert Thomas, NCAR
Simone Tilmes, NCAR
Steven Yeager, NCAR

The following attendees participated in the tutorial:

Angel Adames, U. Washington
Gemma Anderson, U. of Sussex
Hamed Ashouri, U. California, Irvine
Taimaz Bahadory, Memorial University of Newfoundland
Marianna Benassi, CMCC
Logan Berner, Oregon State University
Kelly Bradley, Texas A&M University
Deepak Chandan, U. Toronto
Hrishikesh Chandanpurkar, U. California, Irvine
Youmin Chen, Uni Climate/Uni Research
Annie Cooper, U. Montana
Henrique Duarte, U. Utah
Yassir Eddebbar, Scripps Institution of Oceanography
Ehsan Erfani, U. Nevada, Reno
Guangyang Fang, George Mason University
Diogenes Fontenele, Universidade Estadual do Ceara
Brian Freitag, U. Alabama, Huntsville
Weiwei Fu, U. California, Irvine
Sarvesh Garimella, MIT
Daniel Gilford, MIT
Paul Goddard, U. Arizona
Alexandra Hackett, U. Colorado
Adam Herrington, Delft University of Technology
Emily Janssen, U. Illinois, Urbana-Champaign
Chenxi Jin, Institute of Atmospheric Physics
Nillo Kalakoski, Finnish Meteorological Institute
Karthik Kashinath, Lawrence Berkeley National Lab
Wenwen Kong, U. California, Berkeley
Patricia Lawston, U. Delaware
Paul Levine, U. California, Irvine
Hui LI, U. Illinois, Urbana-Champaign
Qing Li, Brown University
Xiaoqiong Li, Columbia University
Ying Li, Colorado State University
Xiaolu Ling, U. Texas at Austin
Liang Liu, U. Illinois, Urbana-Champaign
Elin McIlhatten, U. Wisconsin-Madison
Eleanor Middlemas, U. Miami
Twila Moon, U. Washington
Oluwaseun Ogunro, New Mexico Tech
Sagar Parajuli, U. Texas at Austin
Steve Penny, U. Maryland

Brett Raczka, Pennsylvania State University
Alan Rhoades, U. California, Davis
Claudio Saffioti, ETH Zurich
Annika Seppala, Finnish Meteorological Institute
Matthew Sloggy, Oregon State University
Sigourney Stelma, U. Delaware
Andrew Steyer, U. Kansas
Jie Sun, Florida State University
Qiang Sun, U. Connecticut
Qi Tang, Lawrence Livermore National Lab
Danielle Touma, Stanford University
Tose Tseng, U. California, Los Angeles
Jan Viebahn, Utrecht University
Nicolas Vigaud, Columbia University
Benjamin Wagman, U. Texas at Austin
Reggie Walters, Boise State University
Fuyao Wang, U. Wisconsin-Madison
Gangsheng Wang, Oak Ridge National Lab
Jason Ward, U. California, Los Angeles
Phillip Wolfram, Los Alamos National Lab
Corinne Wong, U. California, Davis
Stephanie Wuerth, U. California, Berkeley
Xin Xie, Stony Brook University
Priyanka Yadav, George Mason University
Huang Yang, Cornell University
Jia Yang, Auburn University
Liang Yu, George Mason University
Yan Yu, U. Wisconsin-Madison
Xiaoxiao Zhang, Chinese Academy of Sciences
Yuanjie Zhang, Nanjing University
Yufei Zou, Georgia Institute of Technology