

Community Land Model (CLM) Tutorial 2016

NCAR Mesa Lab, Boulder, CO

12 – 16 September 2016

Mesa Lab – Fleischmann Building – Walter Orr Roberts Board Room – Morning Lectures

Mesa Lab Library – Practical Sessions

Walter Orr Roberts Board Room location: This conference room is located in the Fleischmann Building, which is the small, pink building across from the Mesa Lab parking lot. Please follow the sign to the Board Room that is near the sidewalk.

Monday, 12 September – *Overview, biogeophysics*

- 8:30 Introduction
- 8:45 Terrestrial systems overview – Gordon Bonan
- 9:30 CLM overview – Dave Lawrence
- 10:15 *Break*
- 10:30 Calculating fluxes in plant canopies – Gordon Bonan
- 11:20 Land model benchmarking – Dave Lawrence
- 11:45 *Lunch (on your own)*
- 1:00 Practical Session – Configure and run CLM
- 3:00 *Break*
- 5:00 *Reception (Damon Room)*

Tuesday, 13 September – *Biogeophysics continued*

- 8:30 Hydrology – Sean Swenson
- 9:20 Hydraulic stress – Daniel Kennedy
- 9:45 Permafrost – Dave Lawrence
- 10:35 *Break*
- 10:55 Urban model – Keith Oleson
- 11:20 Energy balance / land-atmosphere interactions – Ahmed Tawfik
- 12:10 *Lunch (on your own)*
- 1:30 Practical Session – Point simulations
- 3:00 *Break*
- 5:00 *Adjourn*

Wednesday, 14 September – *Biogeochemistry and Human Impacts*

- 8:30 Importance of modeling C and N – Charlie Koven
- 9:20 Vegetation C processes – Quinn Thomas
- 10:10 *Break*
- 10:30 Vegetation N processes – Rosie Fisher
- 11:20 Soil C, N, and decomposition – Will Wieder
- 12:10 *Lunch (on your own)*
- 1:30 Land use and land-use change – Peter Lawrence
- 2:20 Crops – Yaqiong Lu
- 2:45 *Break*
- 3:10 Fire – Fang Li
- 3:30 Vegetation ozone damage – Danica Lombardozzi
- 4:20 *Adjourn*
- 4:30 *Hike to Chautauqua (~2-2.5 miles)*
- 6:00 *Bus pickup at Chautauqua*

Thursday, 15 September – Data Analysis Practical

- 8:30 Practical Session – Data analysis and diagnostics
- 10:10 *Break*
- 12:10 *Lunch (on your own)*
- 1:30 Practical Session – Code modifications
- 3:00 *Break*
- 5:00 *Adjourn*

Friday, 16 September – Numerical methods and Future Directions

- 8:30 Numerical methods – Martyn Clark
- 9:20 Parameter estimation – Rosie Fisher
- 10:10 *Break*
- 10:30 Using tower sites with CLM – Sean Burns
- 10:55 Ecosystem demography – Rosie Fisher
- 11:45 Summary – Dave Lawrence
- 12:10 *Lunch (on your own)*
- 1:00 Round table discussions and help sessions
- 3:00 *Adjourn*

REVISED