Monday, August 8
8:00-8:20 Welcome, Intro, Logistics (P Lawrence, B Otto-Bliesner, C Brinkworth, E Faircloth)
8:20-9:10 Lecture 1: Introduction to the coupled system (Gokhan Danabasoglu)
9:10-9:25 Break
10:10-10:30 Break

11:15-1:15 Lunch (on your own)

1:15-1:35 Introduction to NCAR computing environment (Rory Kelly)
1:35-2:45 Practical Intro 1: Run CESM (Katherine Thayer-Calder)
2:45-5:00 Practical Lab 1 (snacks available in lobby)

Tuesday, August 9
8:00-8:45 Lecture 4: Land Modeling I: Biogeophysics (David Lawrence)
8:45-9:00 Break
9:00-9:45 Lecture 5: Land Modeling II: Biogeochemistry: Ecosystem Modeling (Will Wieder)
9:45-10:05 Break
10:05-11:05 Applications 1: Defining the internal component of Atlantic Multidecadal Variability in a changing climate: Insights from Large Ensembles (Clara Deser)

11:05-1:00 Lunch (on your own)

1:00-1:30 Specialized Talk 1: Simpler Models (Isla Simpson)
1:30-2:20 Practical Intro 2: Run CESM: Simple Modifications (Hui Li)
2:20-5:00 Practical Lab 2 (snacks available in lobby)

Wednesday, August 10
8:00-8:25 Lecture 6a: Atmosphere Modeling III: WACCM (Mike Mills)
8:25-8:50 Lecture 6b: Atmosphere Modeling IV: Chemistry, Aerosols (Simone Tilmes)
8:50-9:05 Break
9:05-9:50 Lecture 7: Ocean Modeling I (Gustavo Marques)
9:50-10:10 Break
10:10-11:10 Applications 2:
  - #1 Tropical Cyclones and climate (Hui Li)
  - #2 Land Use and Land Cover Change (Peter Lawrence)
  - #3 Ecosystem Dynamics and Fire (Jacquelyn Shuman)

11:10-1:00 Lunch (on your own)
11:40-12:40 Meet a CESM Scientist (*Danabasoglu, Wieder, Moulton, Neale, Otto-Bliesner/Zhu, Bachmeister*)

1:00-1:30 Specialized Talk 2: Model development: Coupling/Tuning (*Cecile Hannay*)
1:30-2:20 Practical Intro 3: Diagnostics and Output (*Jesse Nusbaumer*)
2:20-5:00 Practical Lab 3 (snacks available in Damon room)

**Thursday, August 11**

8:00-8:45 Lecture 8: Ocean Modeling II (*Peter Gent*)
8:45-9:05 Break
9:05-9:50 Lecture 9: Ocean Biogeochemistry (*Keith Lindsay*)
9:50-10:15 Break
10:15-11:00 Lecture 10: Sea Ice Modeling (*David Bailey*)

11:00-12:45 Lunch (*on your own*)
11:40-12:40 Meet a CESM Scientist (*Lauritzen, P Lawrence, Shuman, Tilmes, Krumhardt, Wieder, Simpson, Deppenmeier*)

12:45-1:30 Specialized Talk 3: Porting and New Features (*J Edwards, B Dobbins, M Vertenstein*)
1:30-2:20 Practical Intro 4: Namelist and Code Modifications (*Cecile Hannay*)
2:20-5:00 Practical Lab 4 (snacks available in lobby)

**Friday, August 12**

8:00-8:45 Lecture 11: Land Ice Modeling (*Bill Lipscomb*)
8:45-9:00 Break
9:00-10:00 Applications 3:
    - #1 Isotopes (*Jiang Zhu*)
    - #2 Geoengineering (*Simone Tilmes*)
    - #3 Earth System Prediction (*Stephen Yeager*)
10:00-10:05 Closing Remarks (*Peter Lawrence*)
10:05 Photo (*meet outside Main Seminar Room*)
10:05-10:20 Break
10:20-11:10 Practical Intro 5:
    Breakouts:
    Ocean/Sea Ice/Land Ice (*A. Altuntas, D. Bailey*)
    Land/BGC (*P Lawrence, E. Kluzek, K. Lindsay*)
    Atm/Chem/WACCM (*C. Hannay, M. Mills*)

11:10-12:30 Lunch (*on your own/ working lunch. Feel free to bring food to Center Green.*)

12:30-3:00 Practical Lab 5

3:00 Adjourn