AD Model Builder for stock assessment development and application

**Day 1**

Tuesday, March 13

9:00 – 10:00 Introduction of participants and instructor; overview and expectations

10:00 – 11:30 Introduction to AD Model Builder and statistical background

11:30 – 12:30 ADMB approach, syntax, files, and output

12:30 – 1:30 Lunch

1:30 – 2:30 Exercise: estimating the mean

2:30 – 3:30 Exercise: linear regression

3:30 – 5:00 Age-structured model overview and exercise

**Day 2**

Wednesday, March 14

9:00 – 10:00 Summary Day 1

10:00 – 11:30 Using ADMB with R and debugging

11:30 – 12:00 Functions and libraries

12:00 – 12:30 Exercise: debugging

12:30 – 1:30 Lunch

1:30 – 2:30 Model diagnostics and model selection

3:30 – 5:00 Exercise: visualizing results

**Day 3**

Thursday, March 15

9:00 – 10:00 Summary Day 2

10:00 – 11:00 Using ADMB for simulation

11:00 – 12:00 Exercise: simulation

12:00 – 12:30 Retrospective analysis

12:30 – 1:30 Lunch

1:30 – 5:00 Exercises

**Day 4**

Participants bring in their own data and work to build models in ADMB, with the instructor available to help.