**AD Model Builder Workshop: 16 – 20 September 2016**

*Friday Harbor Labs*

**Day 1 (16 Sept)**

13h00: Welcome

13h30: A: Maximum Likelihood, Likelihood Profiles, and Model Selection

14h30: Coffee Break

15h00: Installing TMB

15h30: B: Introduction to TMB

17h30: Close

**Day 2 (17 Sept)**

09h00: C: Commands and Functions

10h30: Coffee Break

11h00: Example application I: Growth curve

12h30: Lunch (Working)

13h30: D: Various TMB issues

15h00: Coffee Break

15h30: E Variance estimation

17h00: Close

Homework Example application II: Predation function

**Day 3 (18 Sept)**

09h00: Homework review

09h30 F: TMB and MCMC

10h30: Workshop breather

12h30: Lunch

13h30: G: Alternative MCMC algorithms

14h30: Coffee Break

15h00: Example application III: Modelling time-series of data

17h30: Close

Homework Example application III (if needed)

**Day 4 (19 Sept)**

09h00: Homework review

09h30: Example application IV: Length-structured model (assessment)

10h30: Coffee Break

11h00: Example application IV: Length-structured model (assessment)

12h30: Lunch

13h30: Example application IV: Length-structured model (projection)

14h30: H: Use of random effects in assessment

15h30: Coffee Break

16h00: Example application V: Hierarchical model

17h00: Close

**Day 5 (20 Sept)**

09h00: Example application V: Hierarchical model (continued)

10h00: Homework feedback

11h00: Discussion / feedback

12h00: Close