

## (late notice) ANNOUNCEMENT



### Introductory TMB (and ADMB comparison) workshop

#### Summary

Template Model Builder (TMB) advances practices developed in ADMB by improving ways to deal with random effects and a wider range of contributed libraries. This introductory workshop will help familiarize participants with approaches to model development in TMB. Contrasts with ADMB will be covered, though participants are not required to be proficient in ADMB. Participants are assumed to have a background in applied statistics and statistical computing. Specifically, some experience fitting nonlinear models to data (in stock assessment or elsewhere) and basic programming skills.

**Arni Magnusson** and **Jim Thorson** will guide the workshop; participation will be open to NOAA staff who are able to attend, UW students, and other interested scientists depending on space availability. Workshop facilitation by Jim Ianelli and any other volunteers. UW Spring Quarter 4-credit course: “Spatio-temporal models for ecologists” will use TMB extensively.

#### *Activities*

1. Overview of different ways to install and update TMB, incl. GitHub repository access
2. Overview of TMB workflow and alternative working environments
3. Demonstrations and exercises, starting with simple models and gradually adding complexity
4. Statistical techniques to evaluate uncertainty and the use of random effects, as well as debugging
5. User-specific applications
6. Identify areas where enhancements to TMB documentation and training are needed

**Dates:** February 8-12, 2016

**Contact:** [Jim.Ianelli@noaa.gov](mailto:Jim.Ianelli@noaa.gov) for registration and questions.

**Location:** TBD (UW, AFSC, or NWFSC)

