
Catch-MSY workshop

WPFMC Offices

Steven Martell - October 15-16, 2015

Objective: To introduce a new R-package for conducting data poor assessments using the catch-MSY method and to demonstrate its use with case studies with catch only data, and integrating auxiliary information on abundance or changes in mean size of the catch.

Overview: There are a number of new developments to the catch-MSY approach originally developed by Martell and Froese (2012). These new developments include the use of an age-structured model, ability to fit to abundance data, mean size, and other sparse information on composition or density. In addition, the model is also parameterized using management variables (i.e., MSY and FMSY) which is then used to imply the scale and productivity of each stock.

Oct 15, 2015

1300 - 1400 Introductions & overview of the catchMSY R package and its contents.

1400 - 1430 Installing the R-package from github using the devtools package

1430 - 1700 Walk through a pre-compiled example of constructing a model using the catchMSY package.

Oct 16, 2015

0830 - 1200 Develop a new case study from scratch (data assembly, sID object), options for tuning the model to available data. Modifying Package Contents for custom problems.

1300 - 1400 Importance sampling for constructing posterior densities for model variables.