# Wikiprint Book

Title: MSE Batch plugin user notes

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## MSE Batch plugin user notes

10 Sept, 2010

#### Overview

The MSE Batch plugin runs the MSE (Management Strategy Evaluator) in batch mode from a command file. The command file runs the MSE changing input harvest rule parameters for each iteration and outputting data file.

MSE parameters available through the command file.

- i. Number of MSE simulations
- ii. End Year
- iii. Assessment and Implementation error
- iv. Primary Production forcing functions
- v. Primary Production forcing function variation
- vi. Fleet Control types
- vii. Harvest rules
  - i. Fishing Mortality
  - ii. Total Allowable Catch
  - iii. Target Fishing Mortality (hockey stick parameters)

#### How to run

still to do Load the MSE batch plugin interface from the MSE in the navigation tree Load a command file hit the run button

#### **Command file format**

The command file is a CSV (coma separated values) file that contains tags. A tag is a predefined string of text that appears at the start of the line and is used to identify the line as valid input for the MSE module. After the data part of the tag there must be a least one empty entry to mark the end of the valid data. All data that appears after the empty entry will be ignored. For example

```
Control_File_Version,1.0,,,ignored comments,,,
```

Lines in the command file that do not contain a recognized tag will be ignored. A command file can have any number of lines that are not valid inputs as long as they don't start with a valid tag, these could include comments and user notes. The order of the tags in the file is not important.

### **Tags**

#### Control\_File\_Version

```
Control_File_Version,1.0,,
```

• Version number of the control file 1.0 for the current version. Used to identify parameter that may be in the file.

#### Model\_Name

```
Model_Name,C:\EwE\Some model.ewemdb,,,
```

- File name of the EwE model
- · Used to check the command file against the currently loaded EwE model. If the models do not match a warning is issued.

#### Ecosim\_Scenario

```
Ecosim_Scenario,Scenario1,,
```

• Name of the Ecosim Scenario that the command file can work with. If the scenario name does not match a warning is issued. However, the command file can still be run.

#### Run\_Type

Run\_Type, 1,,

- Type of harvest rules to set for the current MSE run. For each run of the MSE the harvest rules for the other Run\_Type's will be set to zero.
- · Valid inputs,
  - 1 Fishing Mortality (Constant\_F) sets the fishing mortality rates to a constant value for the run,
  - 2 Total Allowable Catch (Constant\_Y) sets the catch to a constant value for the run,
  - 3 Target Fishing Mortality(Hockey stick) sets the fishing mortality using the Target Fishing Mortality rules,
  - 0 Any when this Run\_Type option is set the harvest rules for other Run\_Types will not be set to zero. Harvest rule values for groups not explicitly set by the command file will use the values in the currently load EwE model. This option allows for different types of harvest rules during the same MSE run.

#### Number\_Sims

Number\_Sims,50,,

· Number of Ecosim simulation the MSE will run for each iteration. This is the 'Number of trials' parameter on the MSE run form.

## Error\_CV

Error\_CV, 0.3,,

• Coefficient of variation for the observation and implementation error for the MSE stock assessment model. This is the equivalent of the Group CV's in the MSE interface.

# Output\_Directory

Output\_Directory,C:\EwE data,,

• Directory where the MSE batch output will be sent. The MSE batch will try to create the directory if it does not already exist.