**Stock Synthesis   
GUI User Guide**

**Version 3.3.10 beta**

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1. [Introduction](#_bookmark1)

This is a guide for the Stock Synthesis GUI. The GUI enables new or occasional users to work with existing models, save changes, create new models, run Stock Synthesis and view some output graphs.

This document will not cover basic details covered elsewhere. See the “Getting Started with Stock Synthesis” PowerPoint presentation for basic information, the “Introduction to Stock Synthesis” for a broad overview, or the User Manual for more detail on each file’s contents.

1. [New Features Available in Version 3.3.10](#_bookmark2)

This version is compatible with Stock Synthesis 3.30.10, the most important feature. For changes to Stock Synthesis, see the User Manual.

Graphs for Selectivity options are added (see Fleets > Selectivity section).

1. Setup

The GUI is currently available for Windows 7 and later; it may run on earlier versions of Windows, but this has not been tested. Versions for Linux and OSX are not available but may be in the future.

It is available through the Stock Synthesis VLab site, https://vlab.ncep.noaa.gov/group/stock-synthesis.

It may be easiest to download the ss\_gui.exe file and move it to your Stock Synthesis directory (where the other executable files reside).

A desktop shortcut may be created from ss\_gui.exe by right clicking on the desktop, selecting New > Shortcut. Browse to the directory where you have copied the file and select it.

1. [Starting](#_bookmark3) up

Double click on the executable file name in a file browser window or on the desktop icon (if you created one), or run the command line from a terminal or command window.

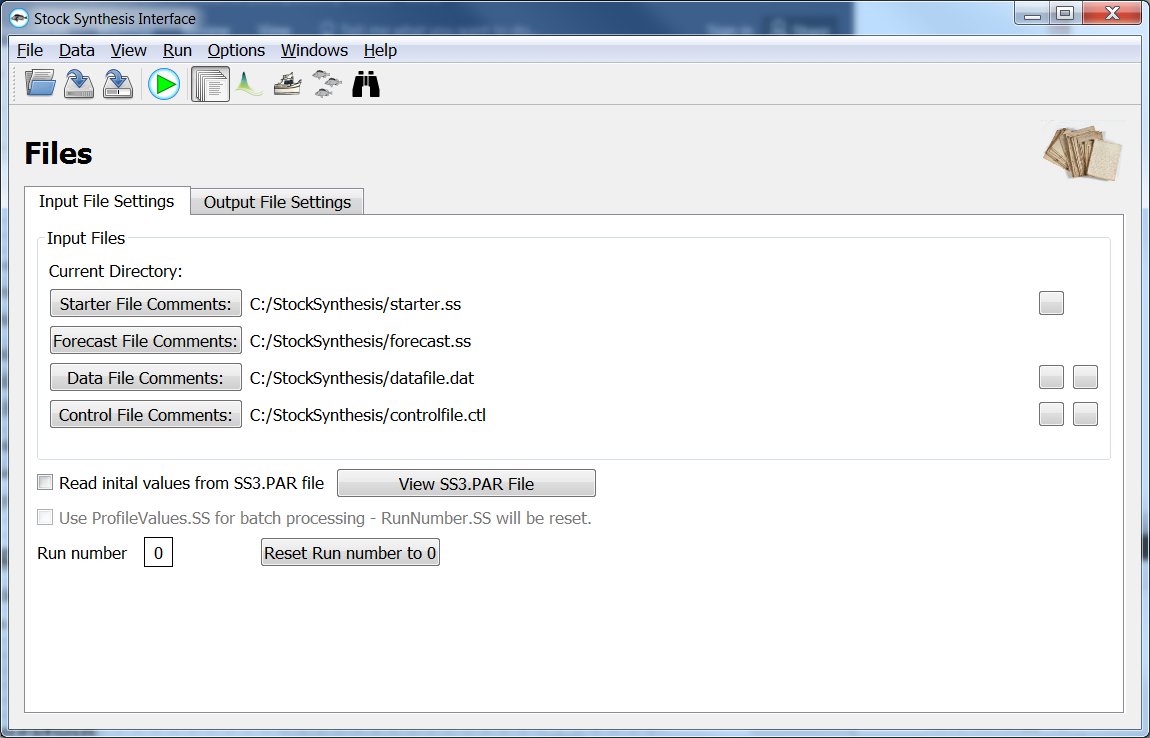
There are five main windows accompanied with occasional dialog boxes: Files, Configuration, Fleet Data, Population, and Forecast. Each of these is covered in its own section below.

1. [Files](#_bookmark7)

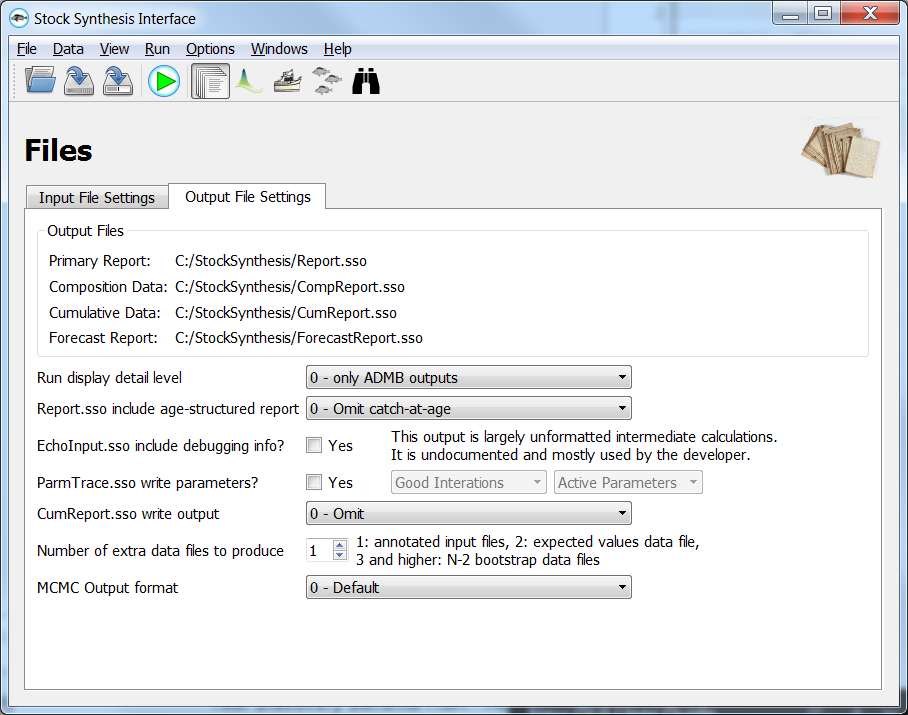
Upon starting up, the GUI shows Files with the Input File Settings visible.

* 1. Input File Settings

When first started, the four main files are given names that may not exist in the current directory. When a model is read, they will change to reflect the directory of that model.



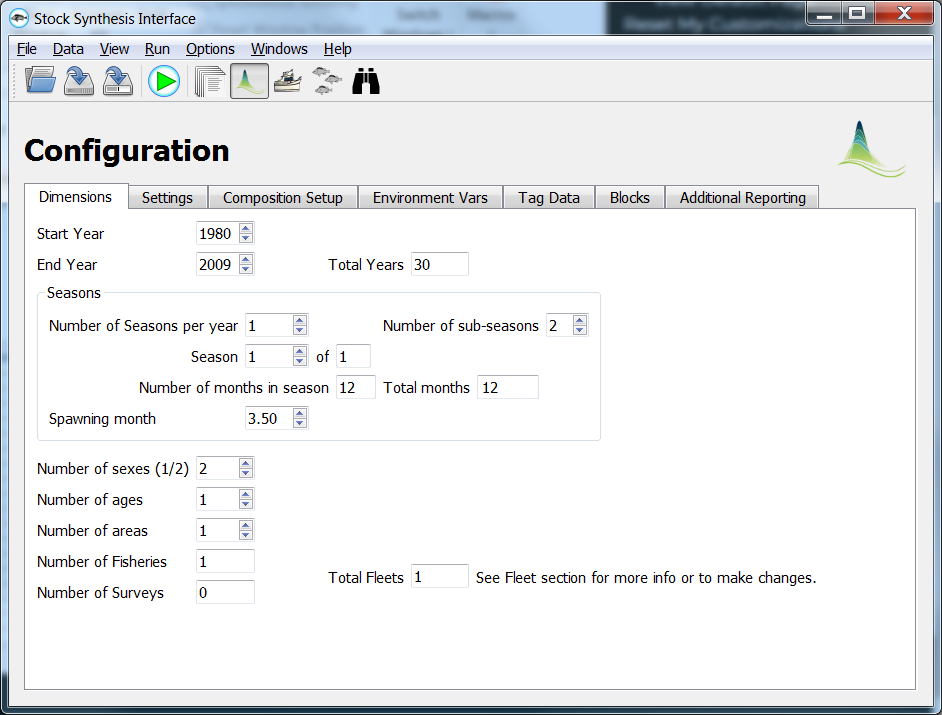
* 1. Output File Settings



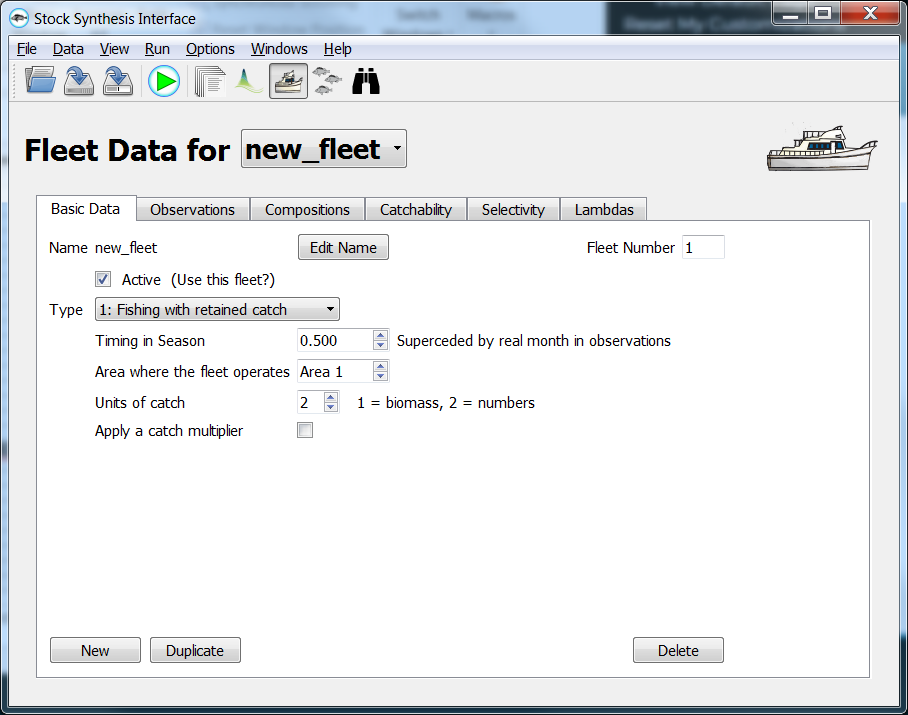
1. [Configuration](#_bookmark8)

The configuration values are mainly in the data file of the current model.

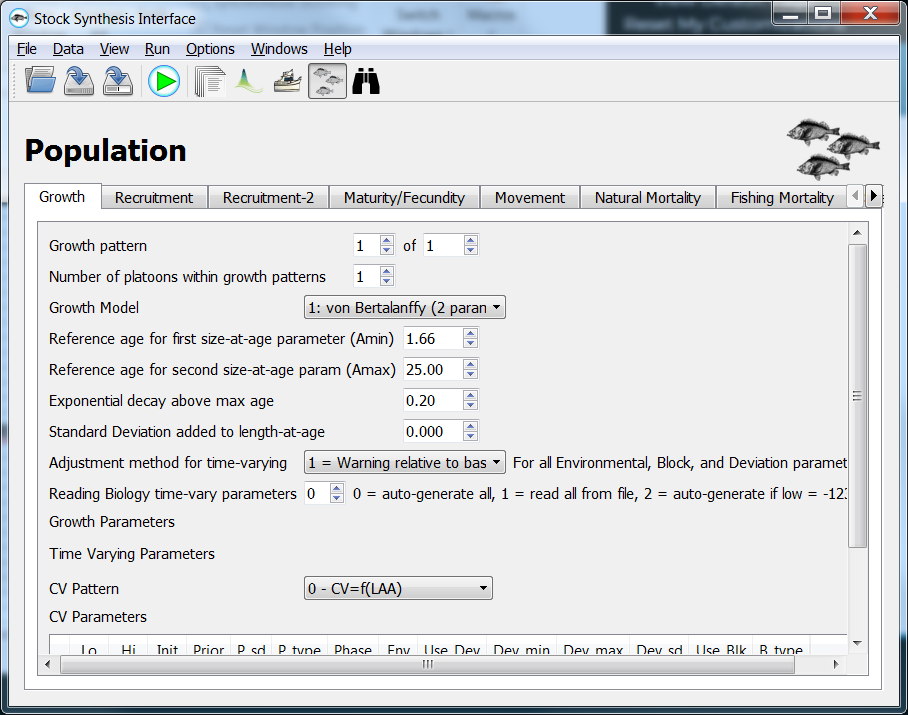
* 1. Dimensions
  2. Settings
  3. Composition Setup
  4. Environmental Variables
  5. Tag Data
  6. Blocks
  7. Additional Reporting



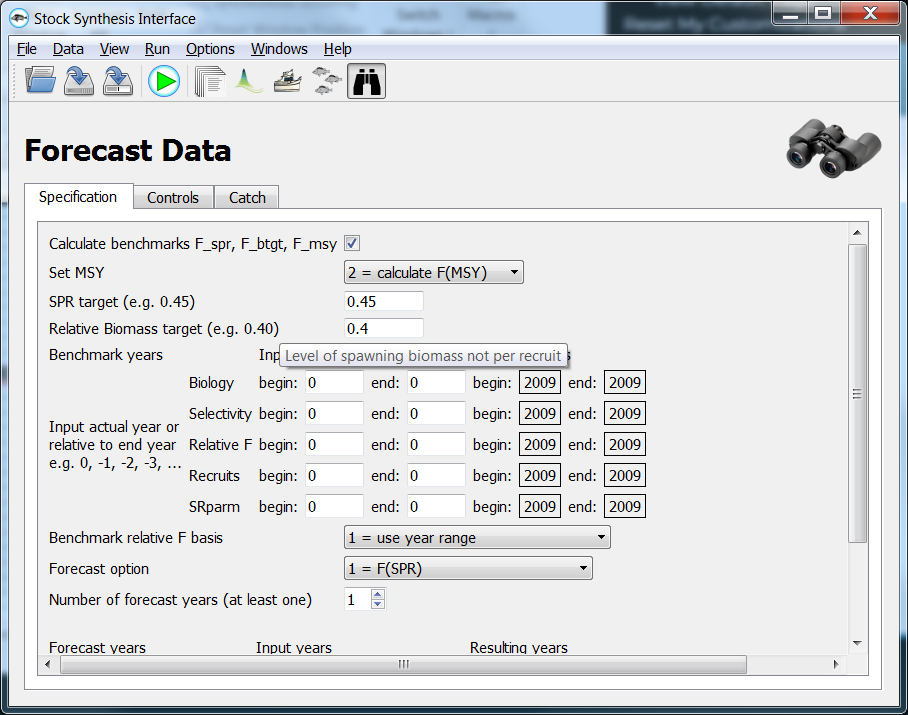
1. Fleet Data
   1. Basic Data
   2. Observations
   3. Compositions
   4. Catchability
   5. Selectivity
   6. Lambdas



1. [Population](#_bookmark15)
   1. Growth
   2. Recruitment
   3. Maturity/Fecundity
   4. Movement
   5. Natural Mortality
   6. Fishing Mortality
   7. Seasonal Effects



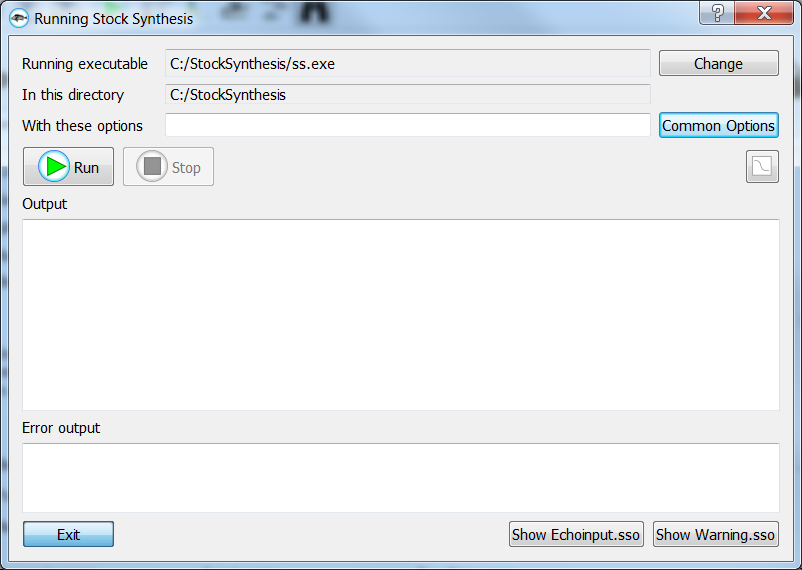
1. [Forecast](#_bookmark16)
   1. Specification



* 1. Controls
  2. Catch

1. Running SS

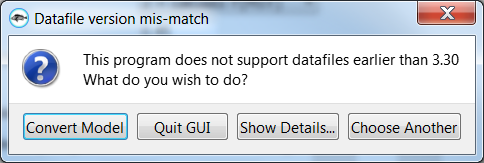
The following dialog shows the run dialog.



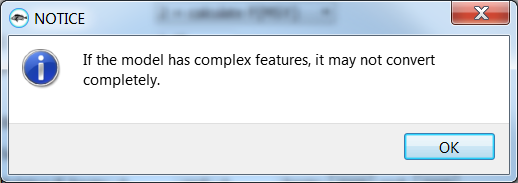
* 1. Executable
  2. Directory
  3. Options
  4. Outputs
     1. Normal Output
     2. Error Output
  5. Viewing Files

1. Appendix A – Running SS\_trans

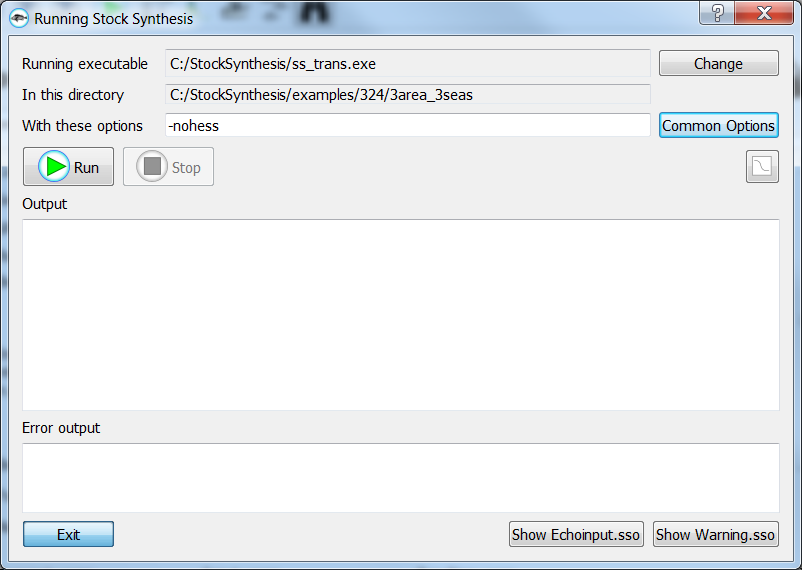
If the starter file is from a SS 3.24 model, the following dialog will open giving you the option to convert the model (using ss\_trans), quit the GUI, or choose another model. The Show Details button will display information similar to this.



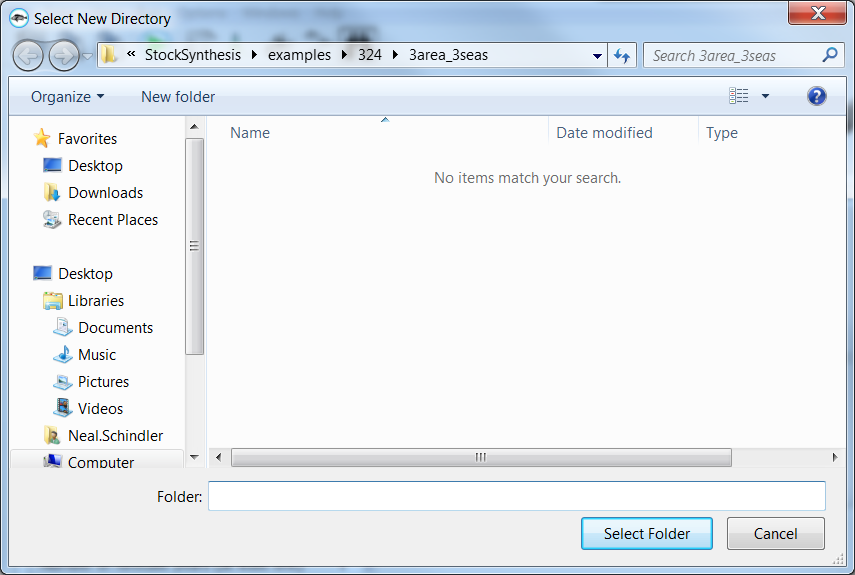
If you choose to convert the model, the following information dialog appears. You may click OK or the cancel button to clear it.



The next step is to run ss\_trans. Click Run in the following dialog. Once ss\_trans has run, click Exit. You will be prompted for a directory which will receive the ss\_new files.



The next dialog shows how the choice of a directory is made in Windows.



The GUI will then save the newly created files, read them in, and display the data.