Conduct iterative hindcasts for retrospective analysis with forecasts

Originally from Cookbook/Run\_Retrospective\_example.R

## Example original application:

* 2017 ICCAT North Atlantic shortfin mako (SMA) Stock Synthesis model run 3
* Stock Synthesis (version 3\_30\_15 Windows)
* r4ss (version 1.35.1)
* R (version 3.3.2 64 bit)

## ImportFrom

* r4ss SSgetoutput SS\_doRetro SSsummarize SSplotRetro

## Procedure

1. Setup Retrospective Periods
2. Locate the SS base case run.
   1. Specify Data (DAT) and Control (CTL) files
   2. Set base case output in the “Reference\_run” subdirectory.
3. Create a base case subdirectory for each retrospective model run
4. Create a retrospective model run subdirectory for plot outputs.
5. Copy Base Case SS Model run files to each retrospective model run
   1. Rename control.ss\_new to control.ss
   2. Modify the “Run Display Detail” starter file option to **1** to speed up model runs.
      1. ‘1 # run display detail (0,1,2)’
      2. See Starter File Options in the SS User Manual for Details
6. Run Retrospective Analysis (SS\_Retro())
7. Read SS\_Retro output
8. Check: SSsummarize