

Simulation initialization

Get case arguments given scenario ID

`get_caseval`

Validate input models, copy folders, and rename files;
copy bias-adjusted .ctl file if needed

`verify_input`, `copy_ss3models`

Operating model

Specify recruitment deviations

`change_recdevs`

Specify F, M, selectivity, and growth values in .par file

`change_f`, `change_m`, `change_sel`, `change_growth`

Run the OM

`run_ss3model`

Survey and composition sampling

Sample fleet data with observation error and write
to the EM .dat file — can include fishery-dependent
and -independent abundance index, age-composition
data, and length-composition data

`change_index`, `change_agecomp`, `change_lcomp`

Manipulate the EM starter file for retrospective analysis

`change_retro`

Estimation model

Change options in the EM; add forecasting if needed

`change_e`

Run the EM

`run_ss3model`

Calculate bias-adjustment factor if needed

`run_bias_ss3`

Repeat for
scenarios
and iterations

