

## SEDAR1-AW1

### Description of AGE-STRUCTURED MODEL subdirectories

The following subdirectories include the model code (\*.tpl), input data (\*.dat), and AD Model Builder output files for each run of the model as described below. Important output files include the report file (\*.rep) and the standard deviation file (\*.std).

#### BASE RUN

rpmodx47b - Base run model, includes high CV values for commercial and headboat landings, assumes SC aging is correct,  $M=0.225$ , time-varying selectivity for pre-1992 years for headboat and commercial hook-n-line fisheries, S-R weighting of 50, and lognormal CV weighting of 0.1.

rpmodx47b\_Resids-BB.xls – Excel spreadsheet with bubble plots of residuals from observed and predicted output for the length and age composition data.

rpmodx47b\_Resids-OP.xls – Excel spreadsheet with point and line plots of observed and predicted output for the length and age composition data.

#### SENSITIVITY RUNS

rpmodx23 – same as base run (rpmodx47b) except S-R weight = 1.

rpmodx45 – same as base run (rpmodx47b) except S-R weight = 2.

rpmodx46 – same as base run (rpmodx47b) except S-R weight = 5.

rpmodx47 – same as base run (rpmodx47b) except S-R weight = 10.

rpmodx48 – same as base run (rpmodx47b) except S-R weight = 100.

rpmodx48b – same as base run (rpmodx47b) except S-R weight = 500.

rpmodx49 – same as base run (rpmodx47b) except S-R weight = 1000.

rpmodx57 – same as base run (rpmodx47b) except low CV for commercial and headboat landings.

rpmodx58 – same as base run (rpmodx47b) except NC aging assumed correct.

rpmodx59 – same as rpmodx58 except low CV for commercial and headboat landings.

rpmodx60 – same as base run (rpmodx47b) except  $M=0.2$ .

rpmodx61 – same as base run (rpmodx47b) except  $M=0.25$ .

rpmodx62 – same as base run (rpmodx47b) except data and model truncated to start in 1984.

rpmodx63 – same as base run (rpmodx47b) except increase in landings in 1999-2001 to account for discards.

#### DEVELOPMENTAL RUNS

rpmod005 - Erroneous base run model, includes high CV values for commercial and headboat landings, assumes SC aging is correct, and  $M=0.225$  (Error in model code)

rpmod004 - Same as rpmod005 except low CV values for commercial and headboat (Error in model code)

rpmod006 - Same as rpmod004 except NC aging assumed correct (Error in model code)

rpmod007 - Same as rpmod005 except NC aging assumed correct

rpmod008 - Same as rpmod005 except  $M=0.2$  (Error in model code)

rpmod009 - Same as rpmod005 except  $M=0.25$  (Error in model code)

rpmod019 - Same as rpmod005 except model only runs 1984-present (Error in model code)

rpmod028 - Same as rpmod005 except estimate for discards included in commercial and headboat landings in 1999-2001 (Error in model code)

rpmodx25 – same as rpmodx23 except low CV for commercial and headboat landings.

rpmodx26 – same as rpmodx23 except NC aging assumed correct.

rpmodx27 – same as rpmodx26 except low CV for commercial and headboat landings.

rpmodx28 – same as rpmodx23 except  $M=0.2$ .

rpmodx29 – same as rpmodx23 except  $M=0.25$ .

rpmodx30 – same as rpmodx23 except data and model truncated to start in 1984.

rpmodx31 – same as rpmodx23 except increase in landings in 1999-2001 to account for discards.

rpmodx32 – same as rpmodx23 except  $M=0.22$ .

rpmodx33 – same as rpmodx23 except  $M=0.23$ .