

AlaskaHerring Folder Organization

Jane Sullivan

Updated 2019-07-16

Model naming conventions:

Time block parameterization = # survival time blocks, # maturity time blocks, # selectivity time blocks

E.g. HER_123 = 1 survival time block, 2 maturity blocks, 3 survival blocks

The model number for model selection is shown before the time block parameterization.

E.g. HER 10_123 = Model 10 with 1 survival time block, 2 maturity blocks, 3 survival blocks

HER_bestLS_### = HER model with best-fitting parameterization of LS model by AICc

HER_best_condCatch.#_### = HER model with best-fitting parameterization of HER by AIC when conditioned on catch

HER_best_condEffort.#_### = HER model with best-fitting parameterization of HER by AIC when conditioned on effort

Folder directory (part 1): General overview

AlaskaHerring

- **YEAR_forecast** – all data, code, and results for a given forecast year
- **smartell_archive** – deprecated code from Steve Martell's contract
- **technical_docs** – documentation for the statistical catch-at-age model
- **.gitignore** – all file types and folders not tracked by git
- **ReadMe.md** – Summary of repository

Folder directory (part 2): Forecast folders

AlaskaHerring

└─ 2019_forecast

└─ **admb** – all relevant admb files for final models including HER_bestLS, HER_best_conditionCatch, HER_best_conditionEffort

└─ **data** – currently only includes LS model results for comparison with HER.

└─ **r** – all R scripts for running HER, generating figures, doing Bayesian analysis, running model selection, retrospective analysis, and sensitivity analysis

└─ **results** – figures, csv output, and archive of all models run in model selection, retrospective, and sensitivity analyses

Folder directory (part 3): 2019 results folder

AlaskaHerring

2019_forecast

results – figures, csv output, and archive of all models run in model selection, retrospective, and sensitivity analyses

HER_bestLS_321 – includes comparison figures of this model's results with LS best, HER-specific figures, diagnostics for the Bayesian analysis, and csv files of all the posterior sample summaries

HER_best_condCatch.12_322 – same as above

HER_best_condEffort.12_322 – same as above

model_selection – includes model selection results for HER conditioned on catch and effort

retrospective – results for the retrospective analysis for HER_bestLS_321, HER_best_condCatch.12_322, and HER_best_condCatch.12_322

sensitivity_sigmaM – results for sensitivity analysis examining convergence diagnostics and model output for sigmaM from 0.05-0.10. sigmaM = 0.09 had best convergence diagnostics