Cross test using Operating Model based on Life History

Biomass Dynamic

 $L\ Kell$

23 July, 2018

Cross tests

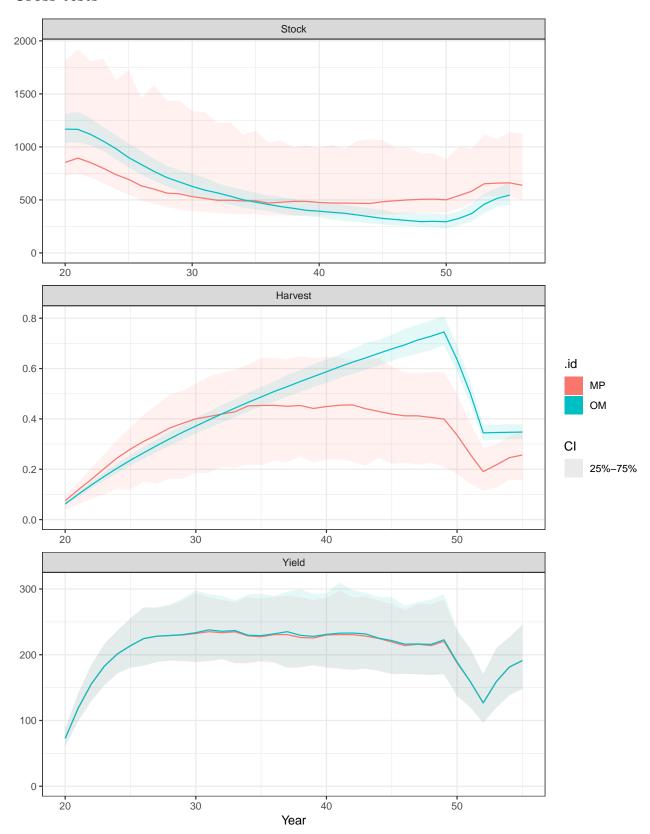


Figure 1, Cross test of biomass dyanmic assessment for brill.

Turbot

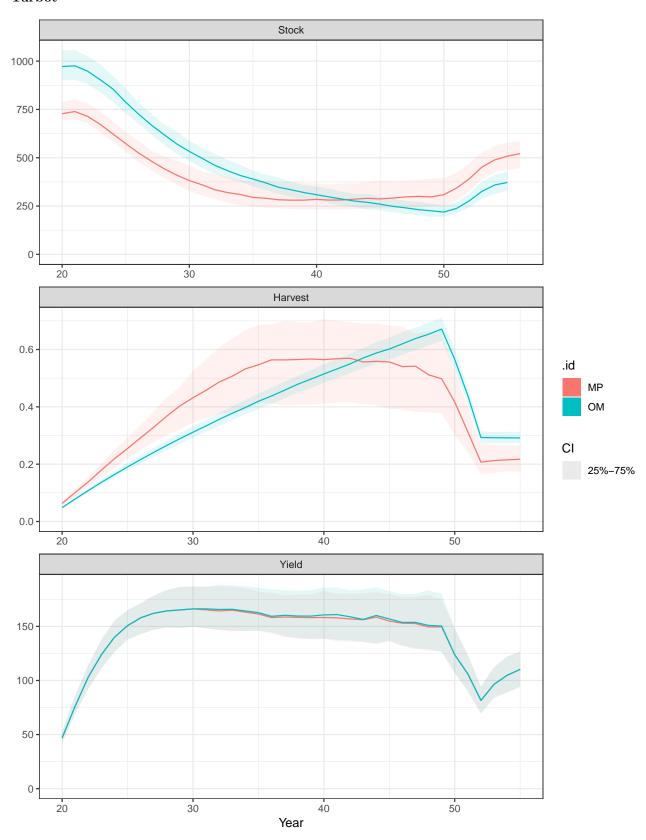


Figure 2, Cross test of biomass dyanmic assessment for turbot.

Ray

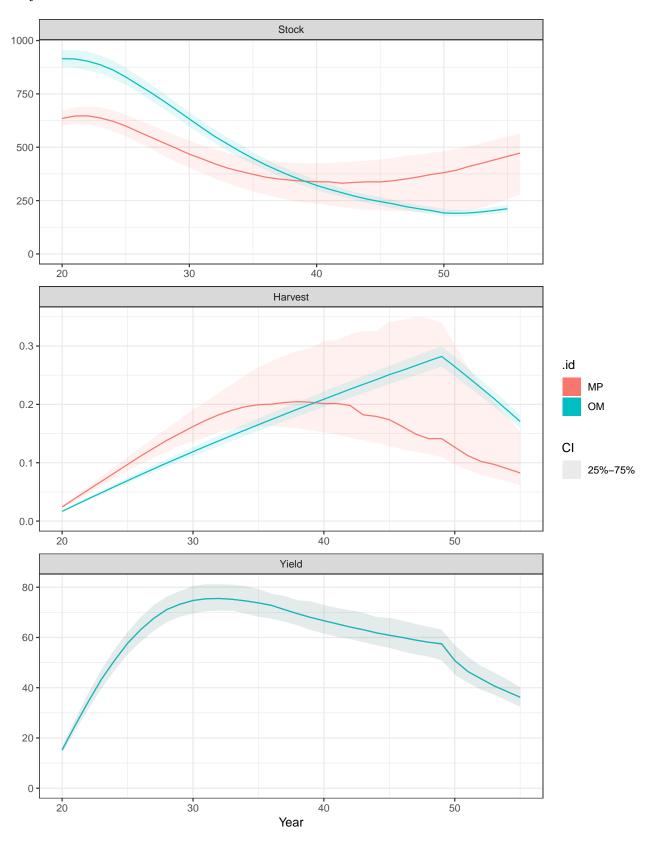


Figure 3, Cross test of biomass dyanmic assessment for ray.

Pollack

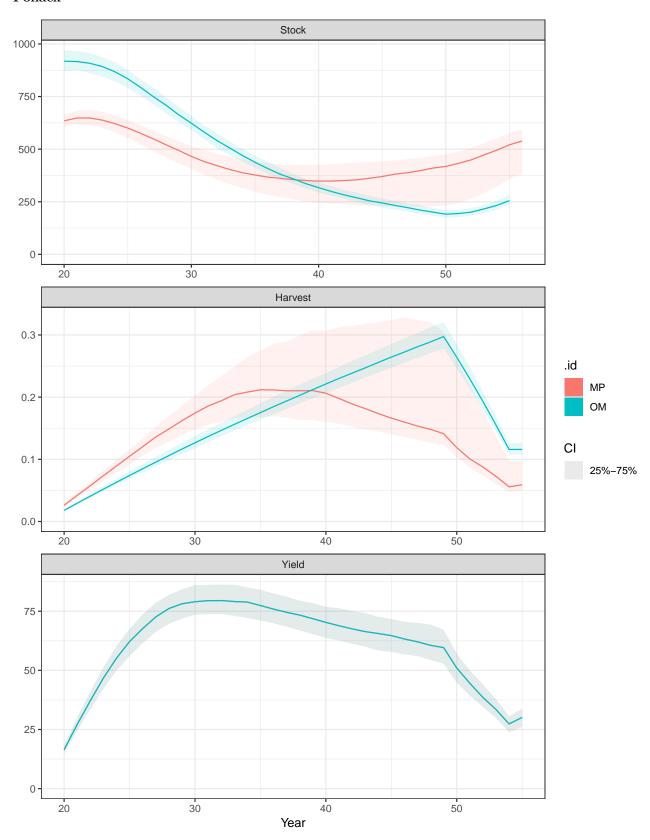
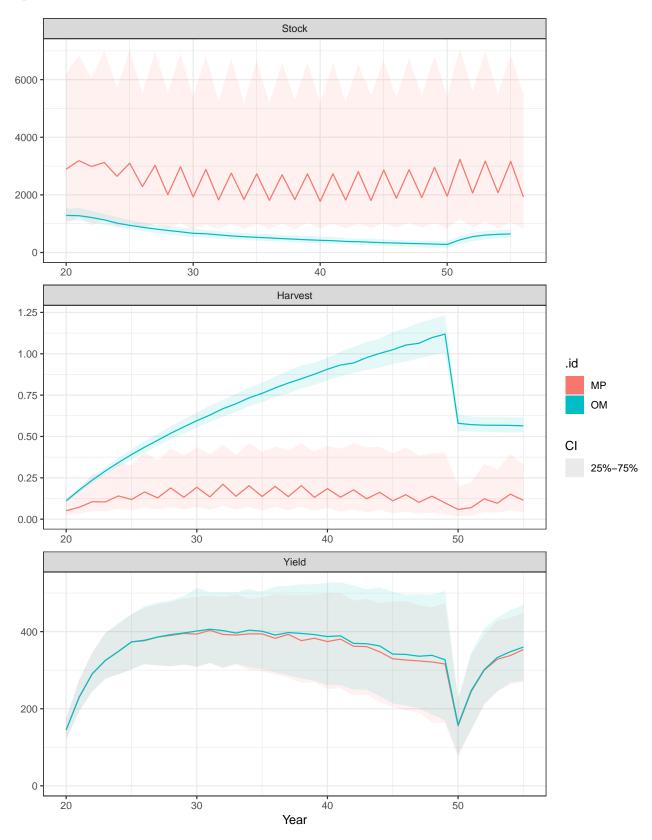


Figure 4, Cross test of biomass dyanmic assessment for pollack.

Sprat



 ${\bf Figure~5,~Cross~test~of~biomass~dyanmic~assessment~for~sprat.}$

Lobster

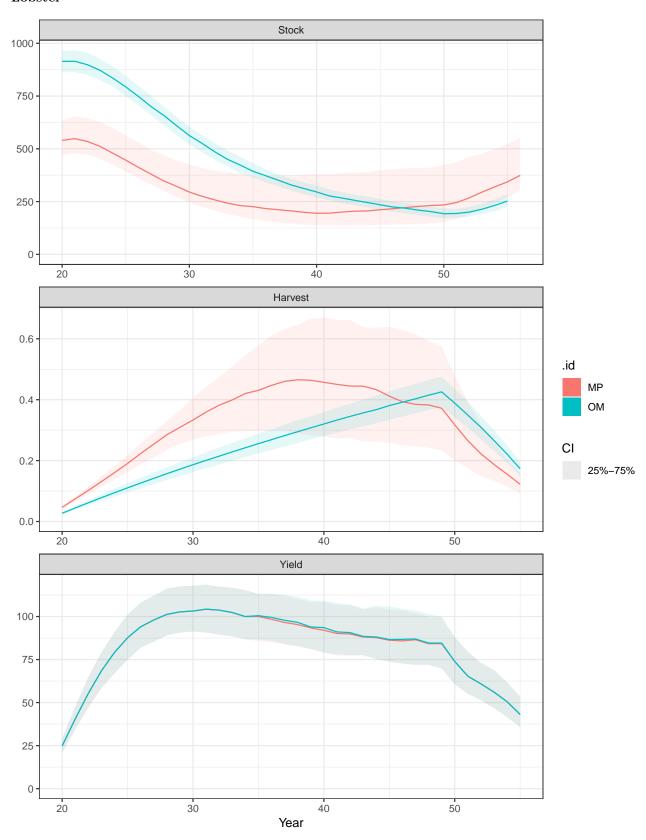
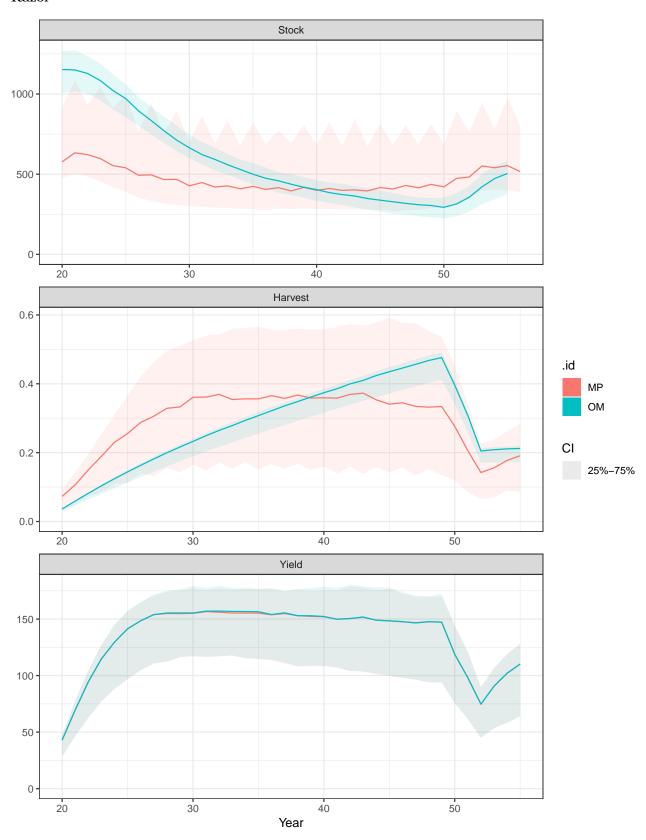
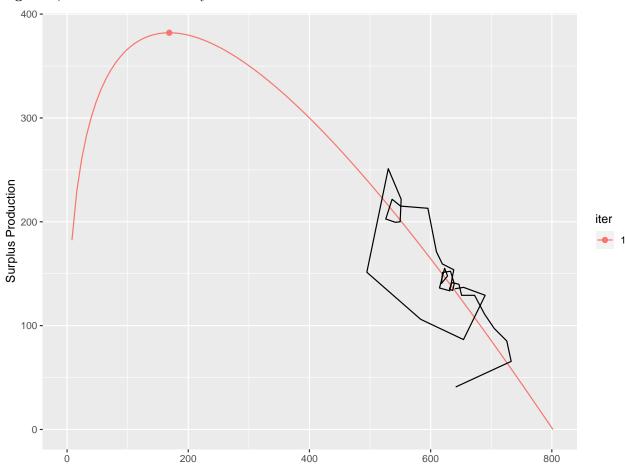


Figure 6, Cross test of biomass dyanmic assessment for lobster.

Razor





Stock

Figure 7, Cross test of biomass dyanmic assessment for razor.

Figure 8, Biomass dynamic production function.

Figure 9, Biomass dynamic

Figure 10, Biomass dynamic

Session Info

R version 3.4.1 (2017-06-30) Platform: x86_64-pc-linux-gnu (64-bit) Running under: Ubuntu 16.04.2 LTS Matrix products: default BLAS: /usr/lib/libblas/libblas.so.3.6.0 LAPACK: /usr/lib/lapack/liblapack.so.3.6.0 locale: [1] LC CTYPE=en US.UTF-8 LC NUMERIC=C [3] LC_TIME=en_GB.UTF-8 LC_COLLATE=en_US.UTF-8 [5] LC MONETARY=en GB.UTF-8 LC MESSAGES=en US.UTF-8 [7] LC_PAPER=en_GB.UTF-8 LC_NAME=C [9] LC ADDRESS=C LC_TELEPHONE=C [11] LC MEASUREMENT=en GB.UTF-8 LC IDENTIFICATION=C attached base packages: [1] stats graphics grDevices utils datasets methods base other attached packages: ggplotFL_2.6.4 lattice_0.20-35 [1] mpb_3.0.0 FLCore_2.6.8 [5] dplyr_0.7.6 plyr_1.8.4 reshape_0.8.7 ggplot2_3.0.0 [9] knitr_1.20 loaded via a namespace (and not attached): [1] Rcpp_0.12.17 pillar_1.1.0 compiler_3.4.1 bindr_0.1.1 [5] tools 3.4.1 digest 0.6.15 tibble 1.4.2 evaluate 0.10.1 [9] gtable_0.2.0 pkgconfig_2.0.1 rlang_0.2.1 Matrix_1.2-10 [13] yaml_2.1.18 bindrcpp_0.2.2 gridExtra 2.3 withr 2.1.2 [17] stringr_1.3.1 stats4_3.4.1 rprojroot_1.3-2 grid_3.4.1 [21] tidyselect_0.2.4 glue_1.2.0 R6_2.2.2 rmarkdown_1.9 [25] FLBRP_2.5.3 magrittr 1.5 FLRP_1.0.1.9002 purrr_0.2.5 [29] codetools 0.2-15 backports 1.1.2 scales 0.5.0 htmltools 0.3.6 [33] MASS 7.3-47 assertthat_0.2.0 FLife_3.2.0 colorspace 1.3-2

Software Versions

[37] labeling_0.3

- R version 3.4.1 (2017-06-30)
- FLCore: 2.6.8FLife: 3.2.0FLBRP: 2.5.3
- Compiled: Mon Jul 23 10:11:04 2018

stringi_1.2.3

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lazyeval_0.2.1

munsell_0.5.0

Acknowledgements

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References