

FLife: Operating Model Conditioning

Lobster

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21 July, 2018

Life history parameters



Figure 1 Pairwise scatter plots of life history parameters.

Equilibrium dynamics

The parameters are then used by `1hEq1` to simulate the equilibrium dynamics by combining the spawner/yield per recruit relationships with a stock recruitment relationship.

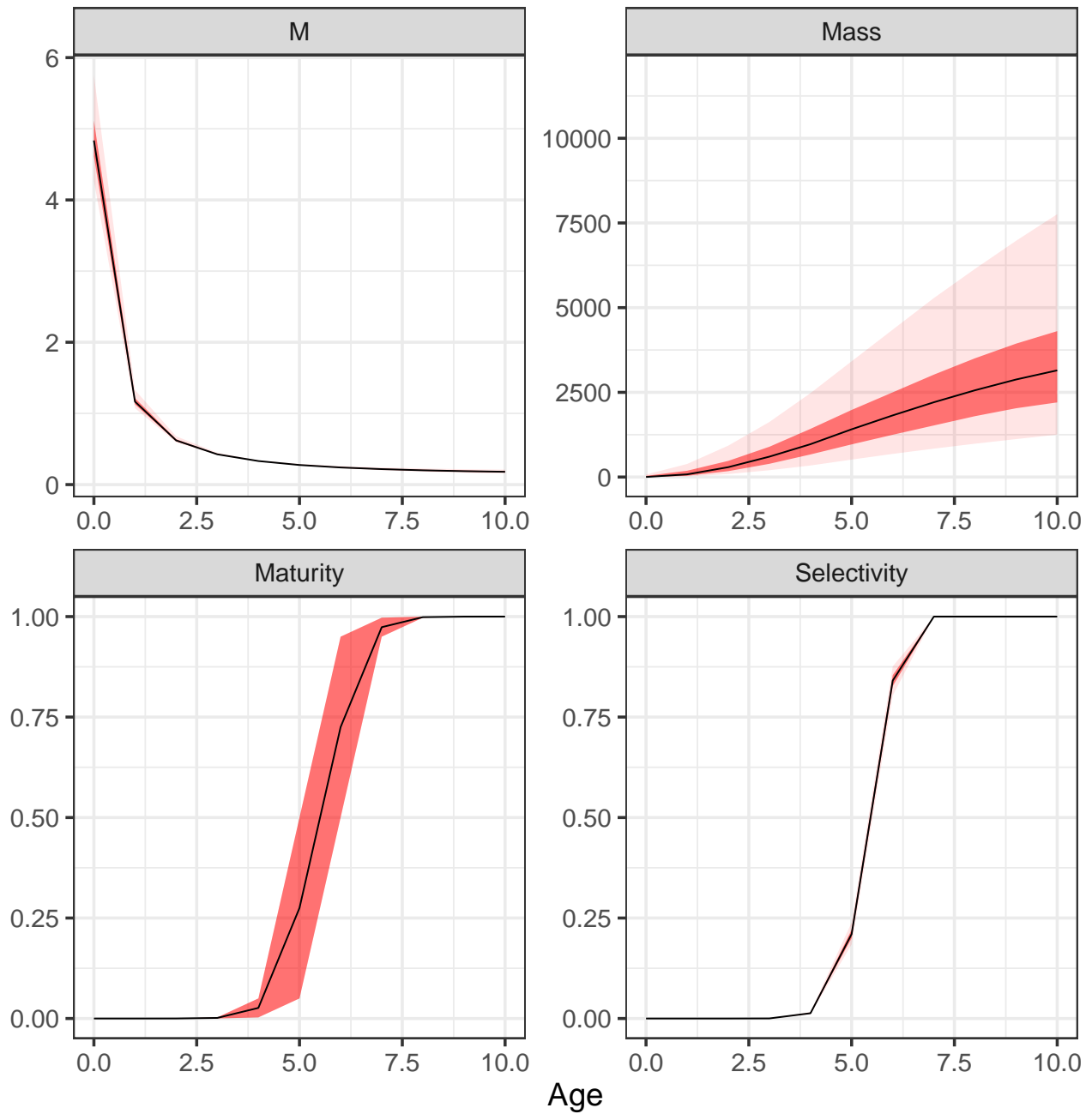


Figure 2 Vectors.

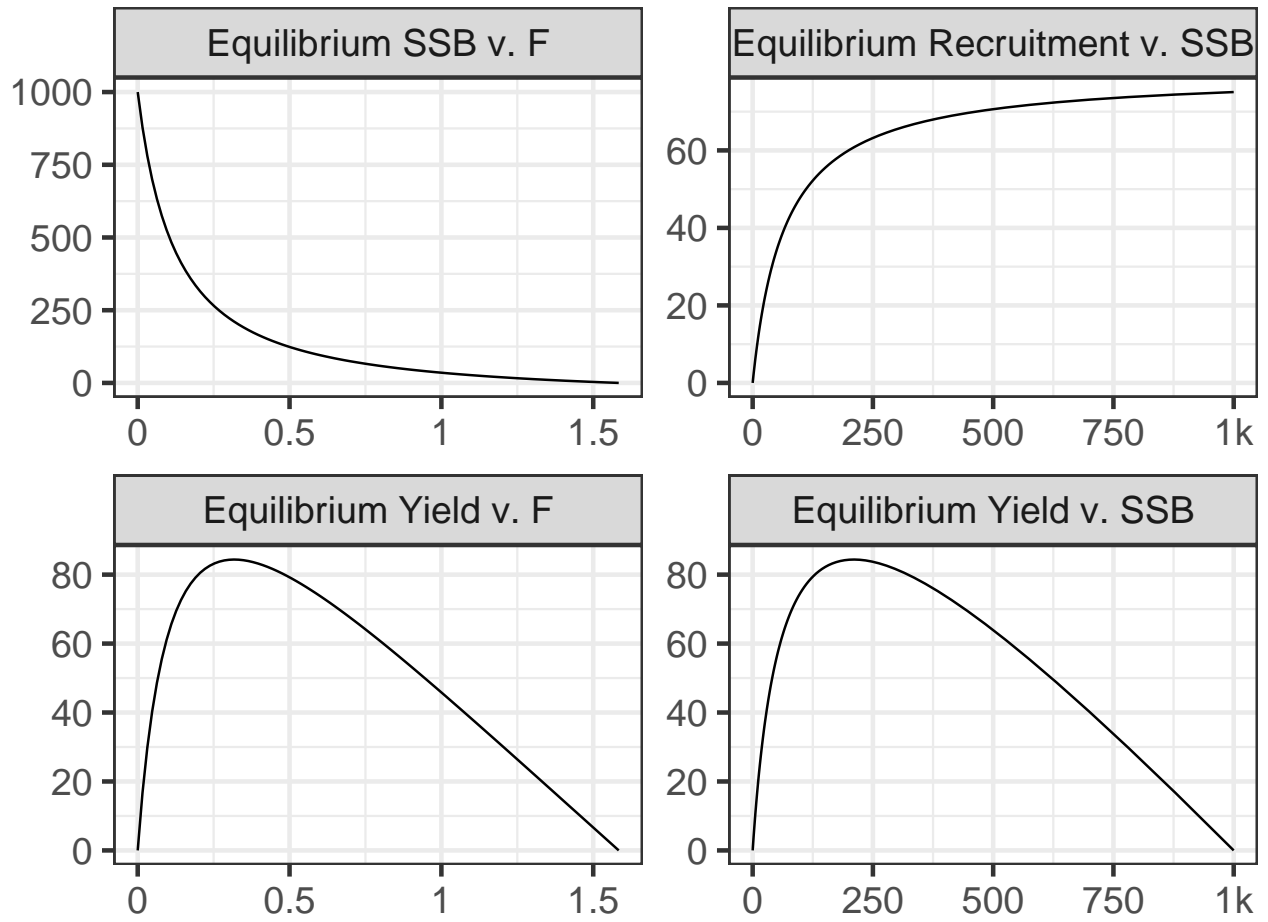


Figure 3 Example equilibrium Curve.

Population dynamics

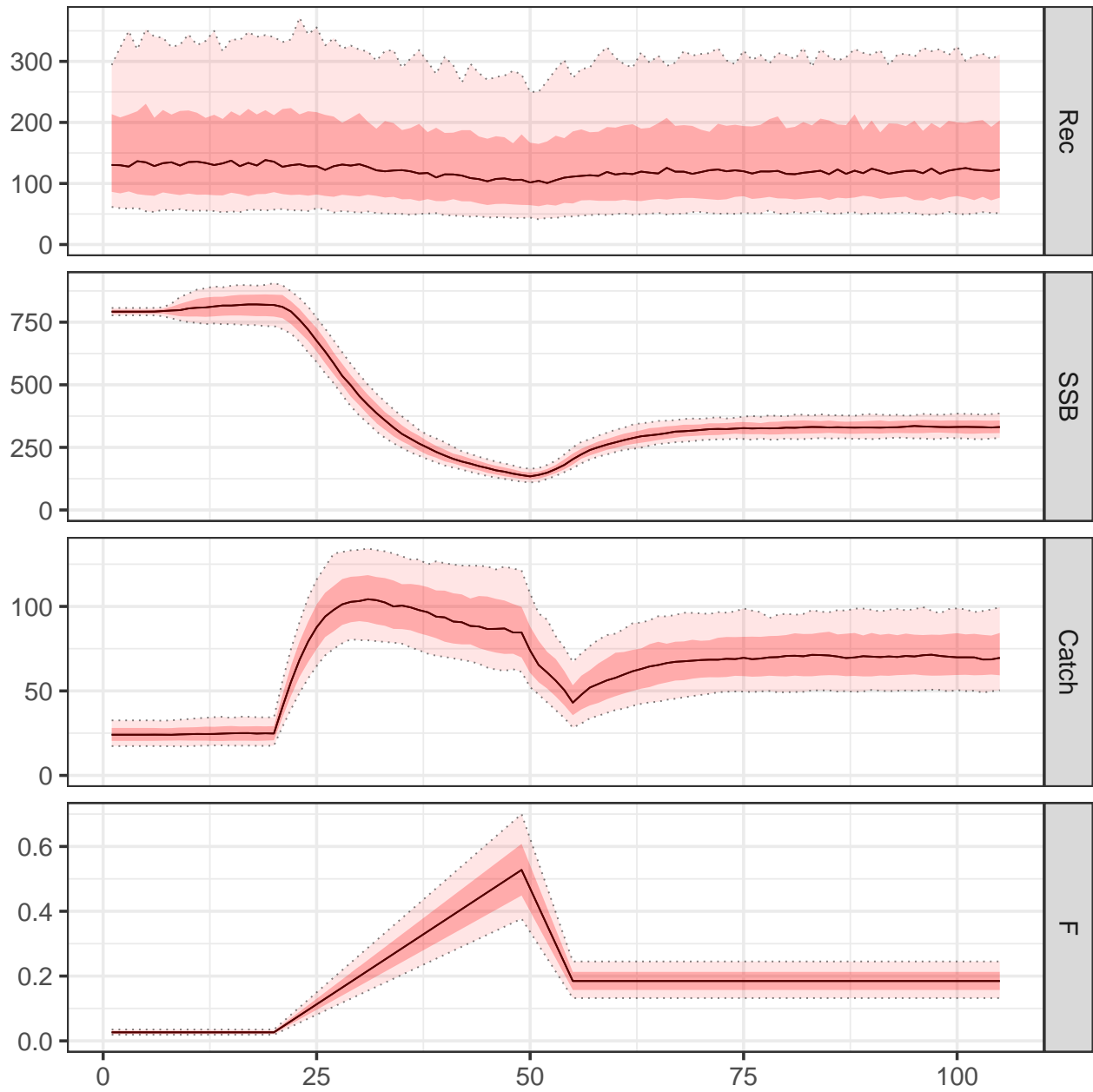


Figure 4 Time series.

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:
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[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:
[1] FLlife_3.2.0 ggplotFL_2.6.4 FLasher_0.1.0 FLFishery_0.1.4
[5] FLBRP_2.5.3 FLCore_2.6.8 lattice_0.20-35 GGally_1.4.0
[9] reshape_0.8.7 dplyr_0.7.6 plyr_1.8.4 ggplot2_3.0.0
[13] knitr_1.20

loaded via a namespace (and not attached):
[1] Rcpp_0.12.17 pillar_1.1.0 compiler_3.4.1
[4] RColorBrewer_1.1-2 bindr_0.1.1 tools_3.4.1
[7] digest_0.6.15 evaluate_0.10.1 tibble_1.4.2
[10] gtable_0.2.0 pkgconfig_2.0.1 rlang_0.2.1
[13] Matrix_1.2-10 yaml_2.1.18 bindrcpp_0.2.2
[16] gridExtra_2.3 withr_2.1.2 stringr_1.3.1
[19] stats4_3.4.1 rprojroot_1.3-2 grid_3.4.1
[22] tidyselect_0.2.4 glue_1.2.0 R6_2.2.2
[25] rmarkdown_1.9 FLRP_1.0.1.9002 reshape2_1.4.3
[28] purrr_0.2.5 magrittr_1.5 backports_1.1.2
[31] scales_0.5.0 codetools_0.2-15 htmltools_0.3.6
[34] MASS_7.3-47 assertthat_0.2.0 colorspace_1.3-2
[37] labeling_0.3 stringi_1.2.3 lazyeval_0.2.1
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Software Versions

- R version 3.4.1 (2017-06-30)
- FLCore: 2.6.8
- FLBRP: 2.5.3
- FLasher: 0.1.0
- FLlife: 3.2.0
- ggplotFL: 2.6.4
- **Compiled:** Sat Jul 21 22:36:05 2018

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References