Cross test using Operating Model based on Life History

LBSPR, length based assessment

L Kell

24 July, 2018

OM

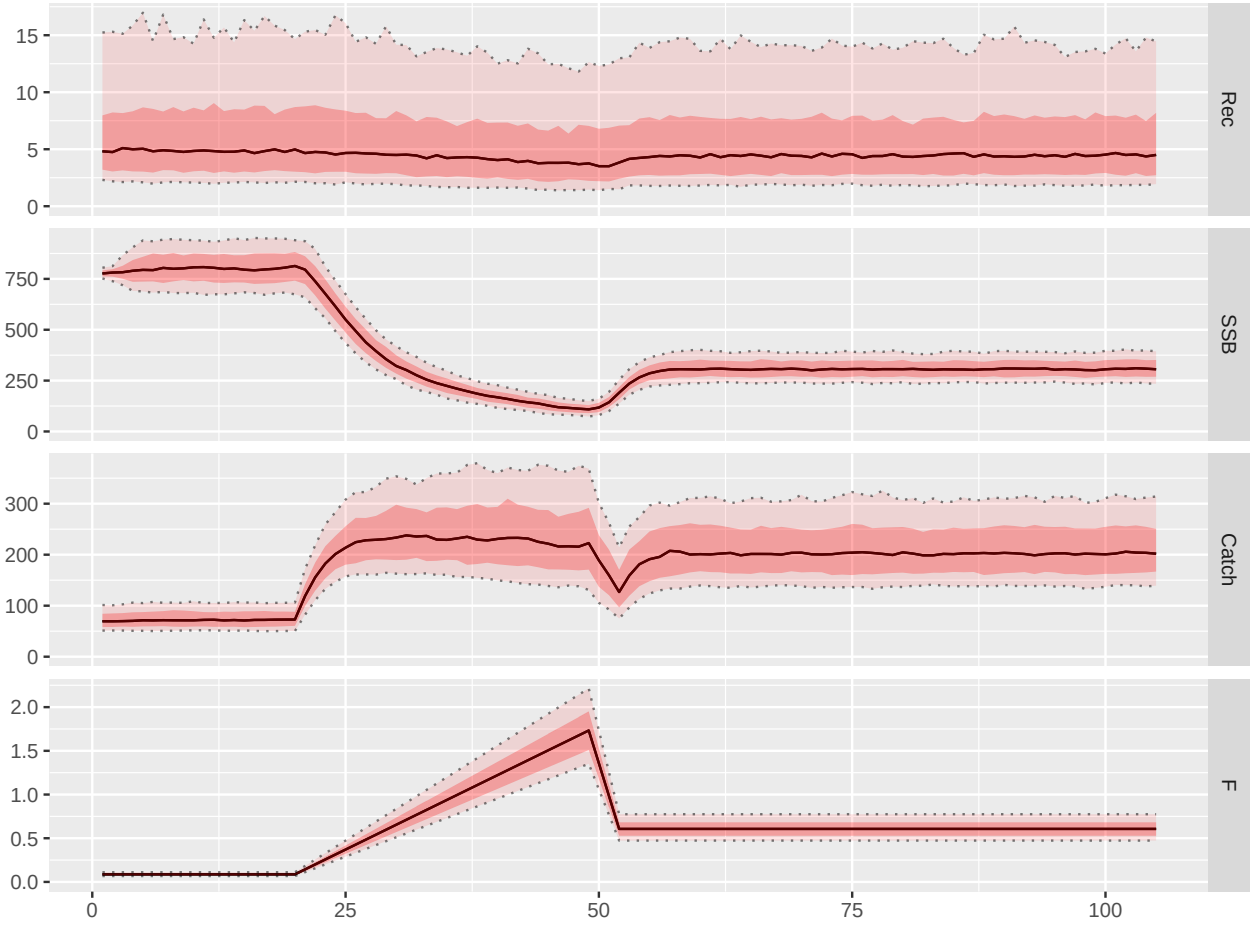

Figure 1 Operating model for Brill.

OEM

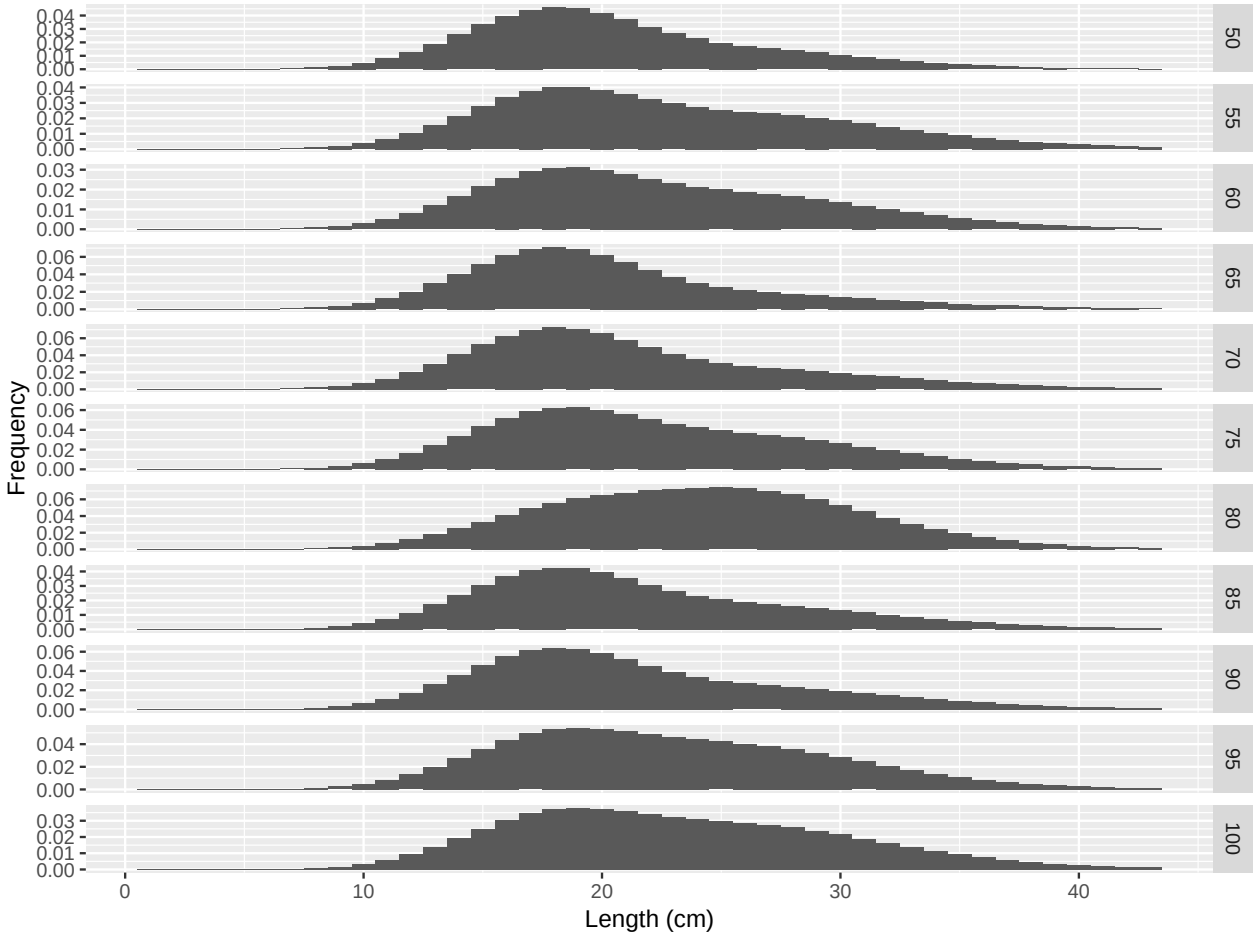

Figure 2 Catch size data .

MP

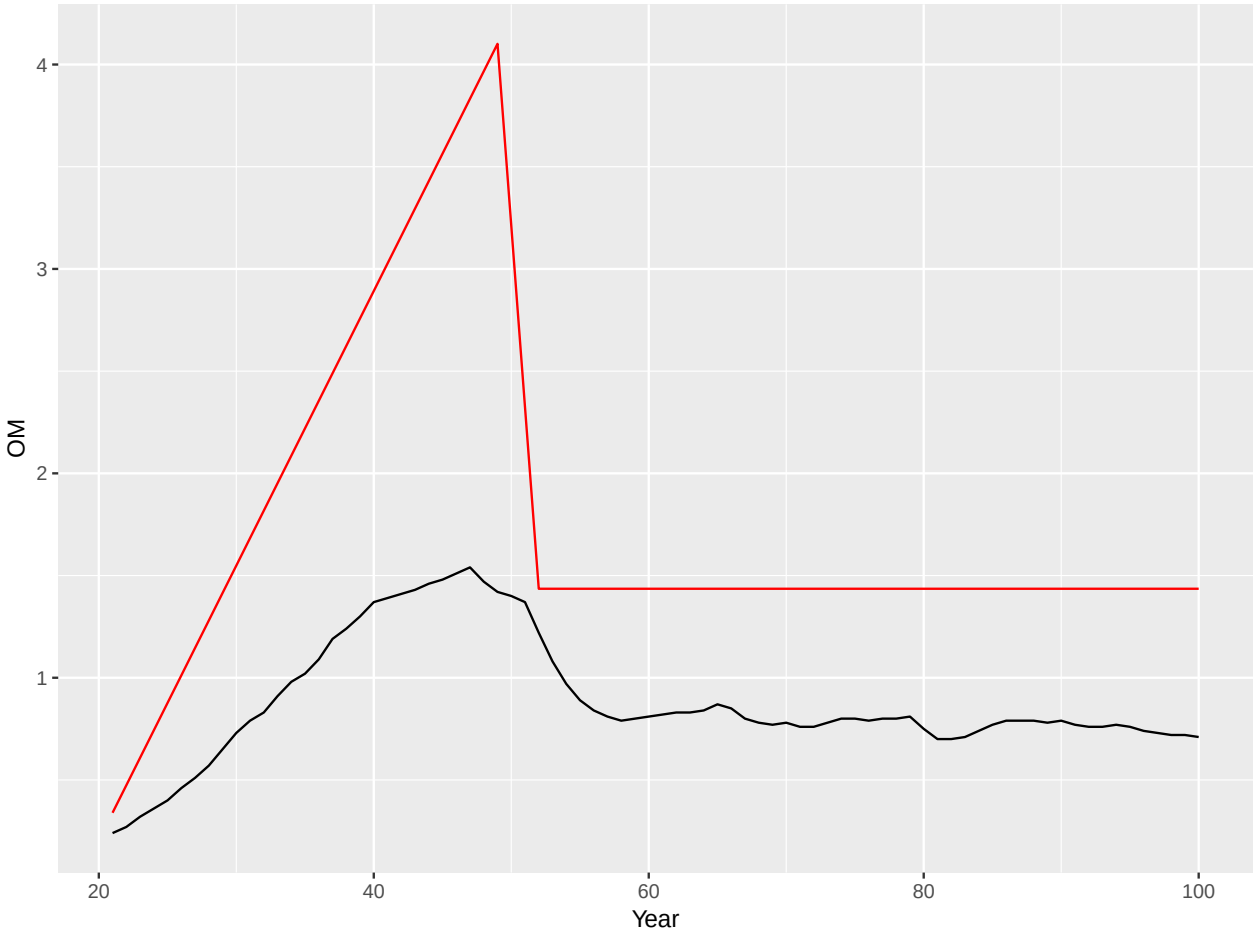

Figure 3 Comparison of estimated and actual F/M ratios.

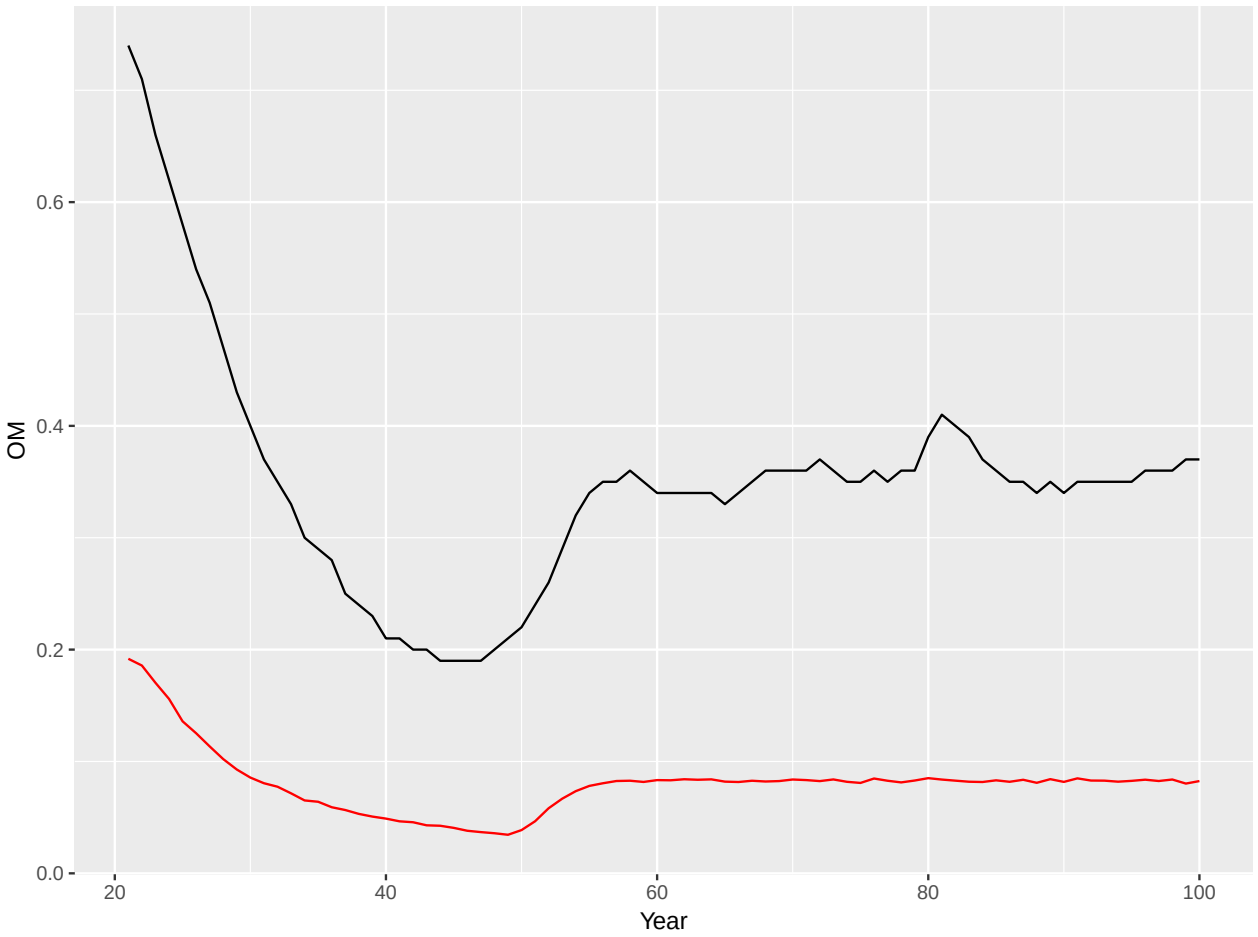

Figure 4 Estimated SPR.

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:
 [1] LBSPR_0.1.2     FLife_3.2.0     FLBRP_2.5.3     ggplotFL_2.6.4
 [5] FLCore_2.6.9    lattice_0.20-35 dplyr_0.7.6     ggplot2_3.0.0
 [9] reshape_0.8.7   plyr_1.8.4      knitr_1.20

loaded via a namespace (and not attached):
 [1] Rcpp_0.12.18       RColorBrewer_1.1-2 pillar_1.1.0
 [4] compiler_3.4.1     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] plotrix_3.7        rmarkdown_1.9      FLRP_1.0.1.9002
[28] reshape2_1.4.3     tidyr_0.7.1        purrr_0.2.5
[31] magrittr_1.5       codetools_0.2-15   backports_1.1.2
[34] scales_0.5.0       htmltools_0.3.6    MASS_7.3-47
[37] assertthat_0.2.0   colorspace_1.3-2   labeling_0.3
[40] stringi_1.2.3      lazyeval_0.2.1     munsell_0.5.0
```

Software Versions

- R version 3.4.1 (2017-06-30)
- FLCore: 2.6.9
- FLife: 3.2.0
- FLBRP: 2.5.3
- **Compiled**: Tue Jul 24 10:28:51 2018

Author information

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Acknowledgements

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References