

Cross test using Operating Model based on Life History

VPA

L Kell

16 August, 2018

Brill

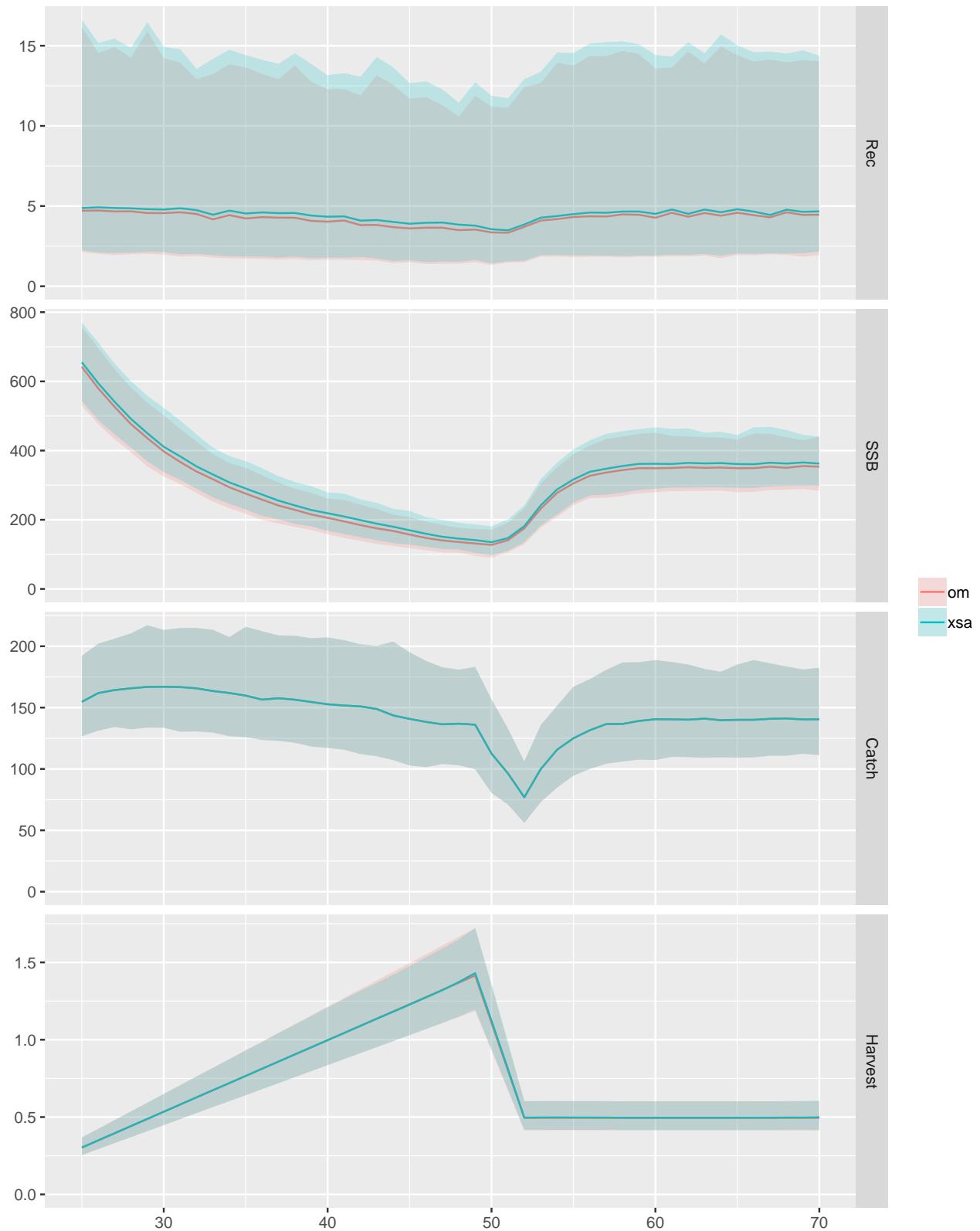


Figure 1. Cross test for brill.

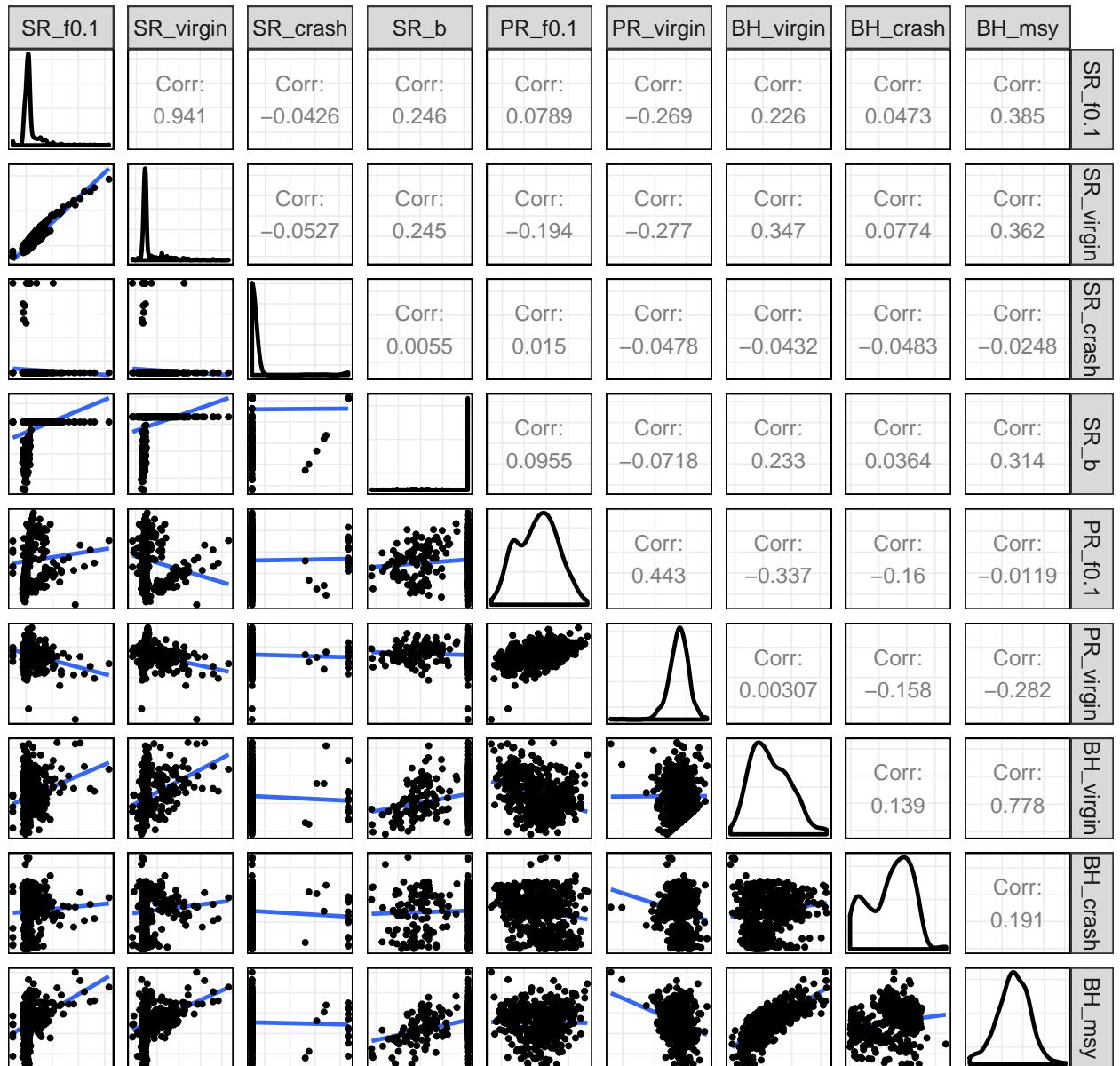


Figure 2. Cross test SSB reference points for brill.

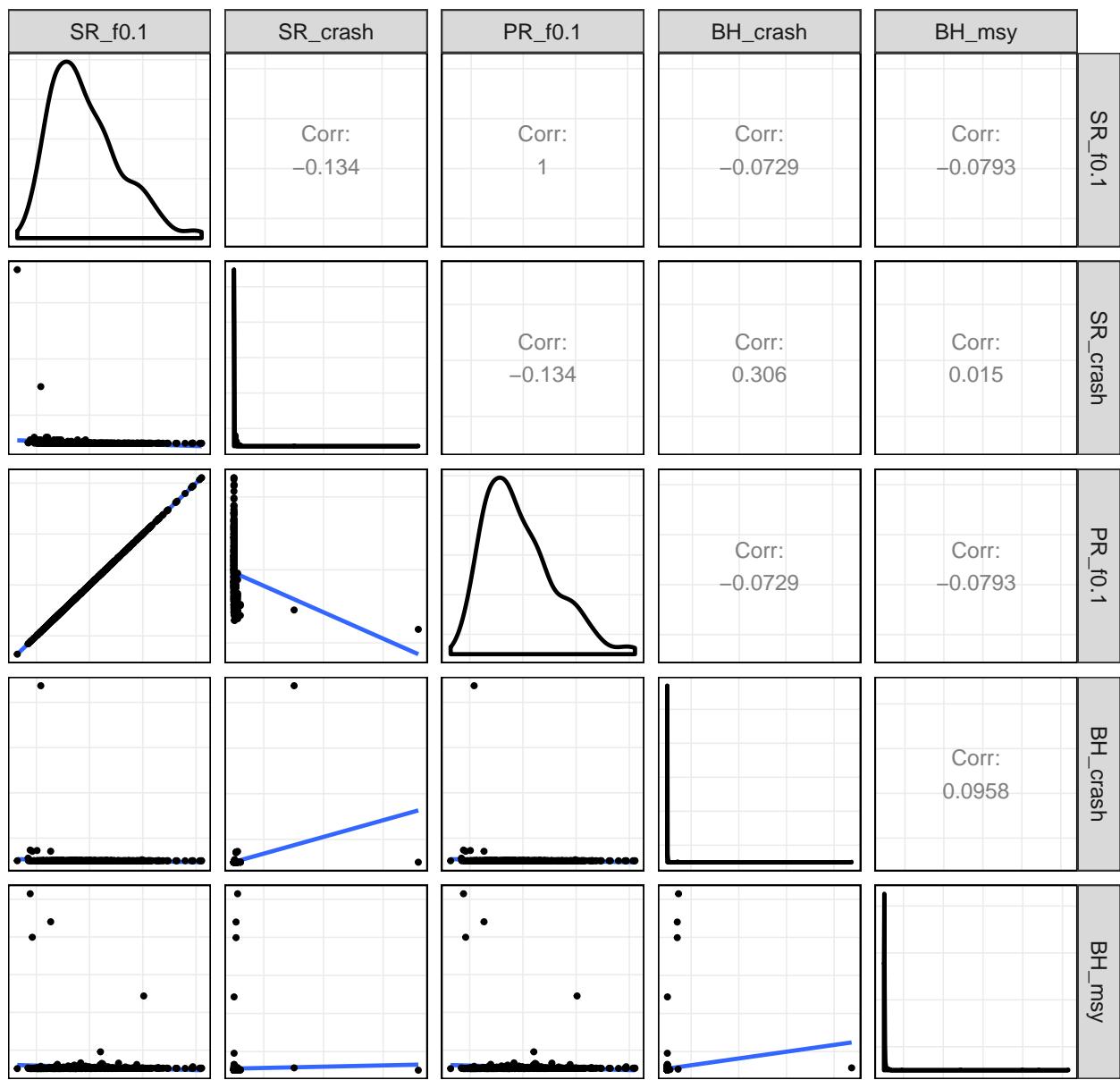


Figure 3. Cross test F reference points for brill.

Turbot

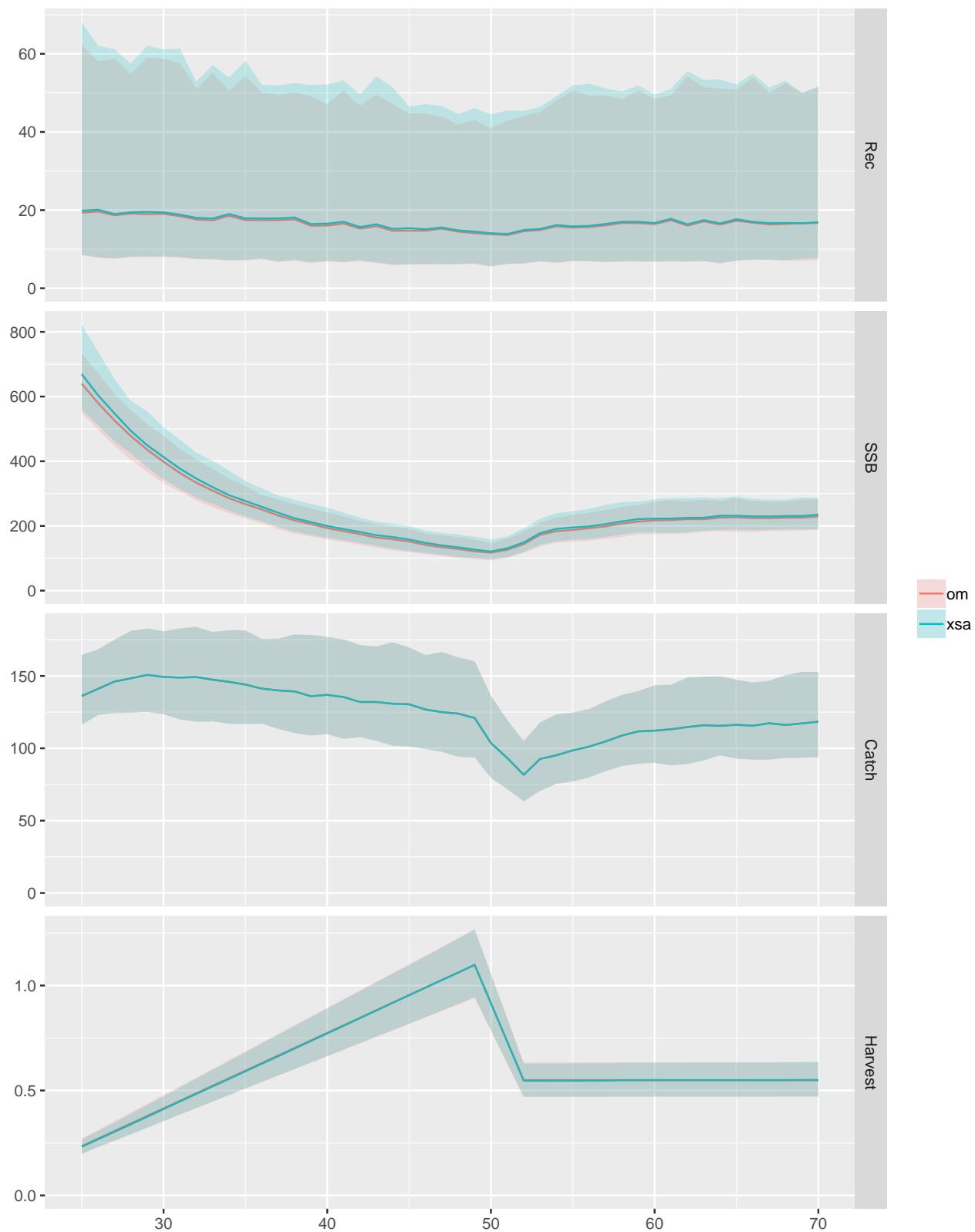


Figure 4. Simulation test for turbot.

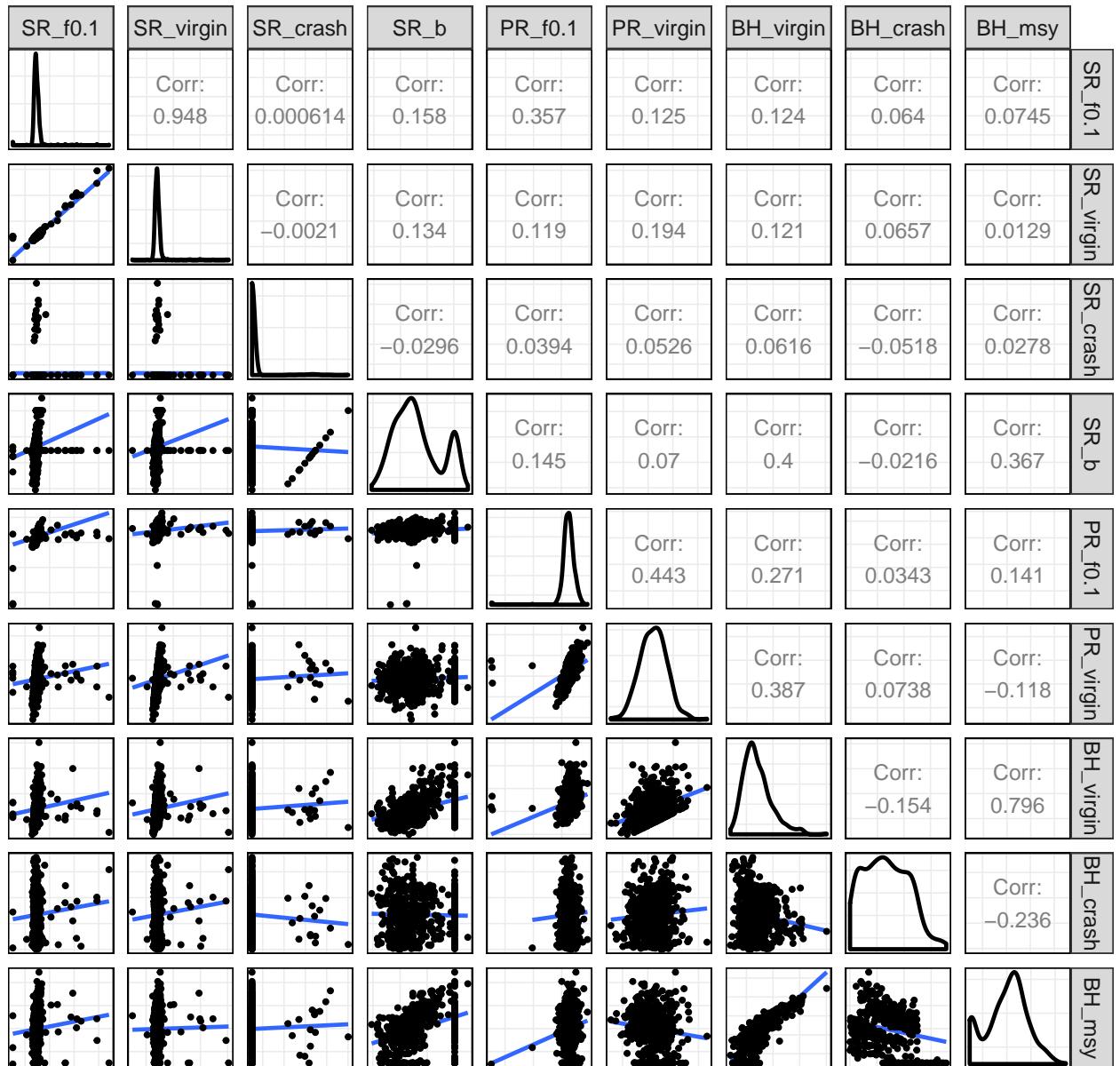


Figure 5. Cross test SSB reference points for turbot.

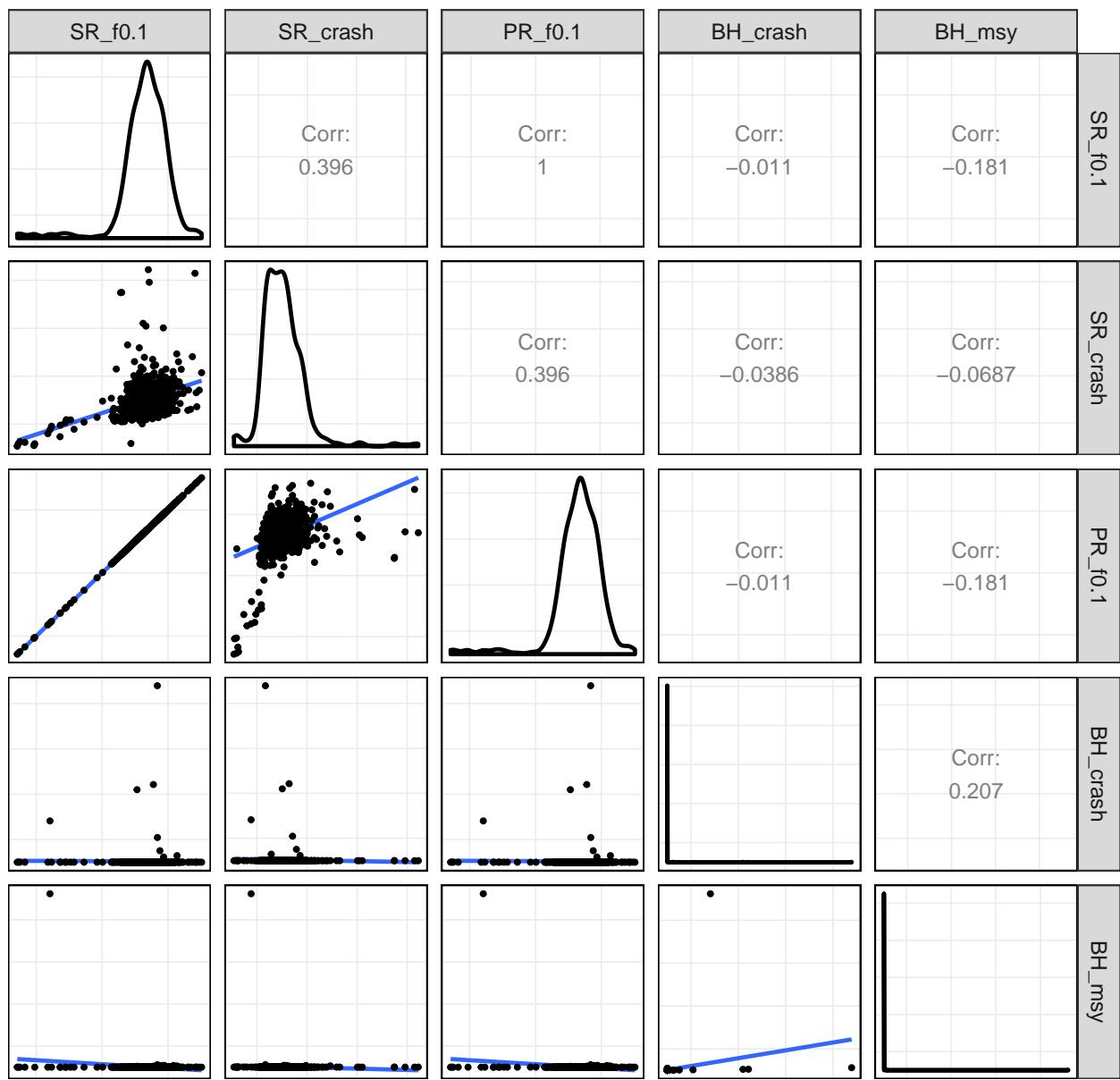


Figure 6. Cross test F reference points for turbot.

Ray

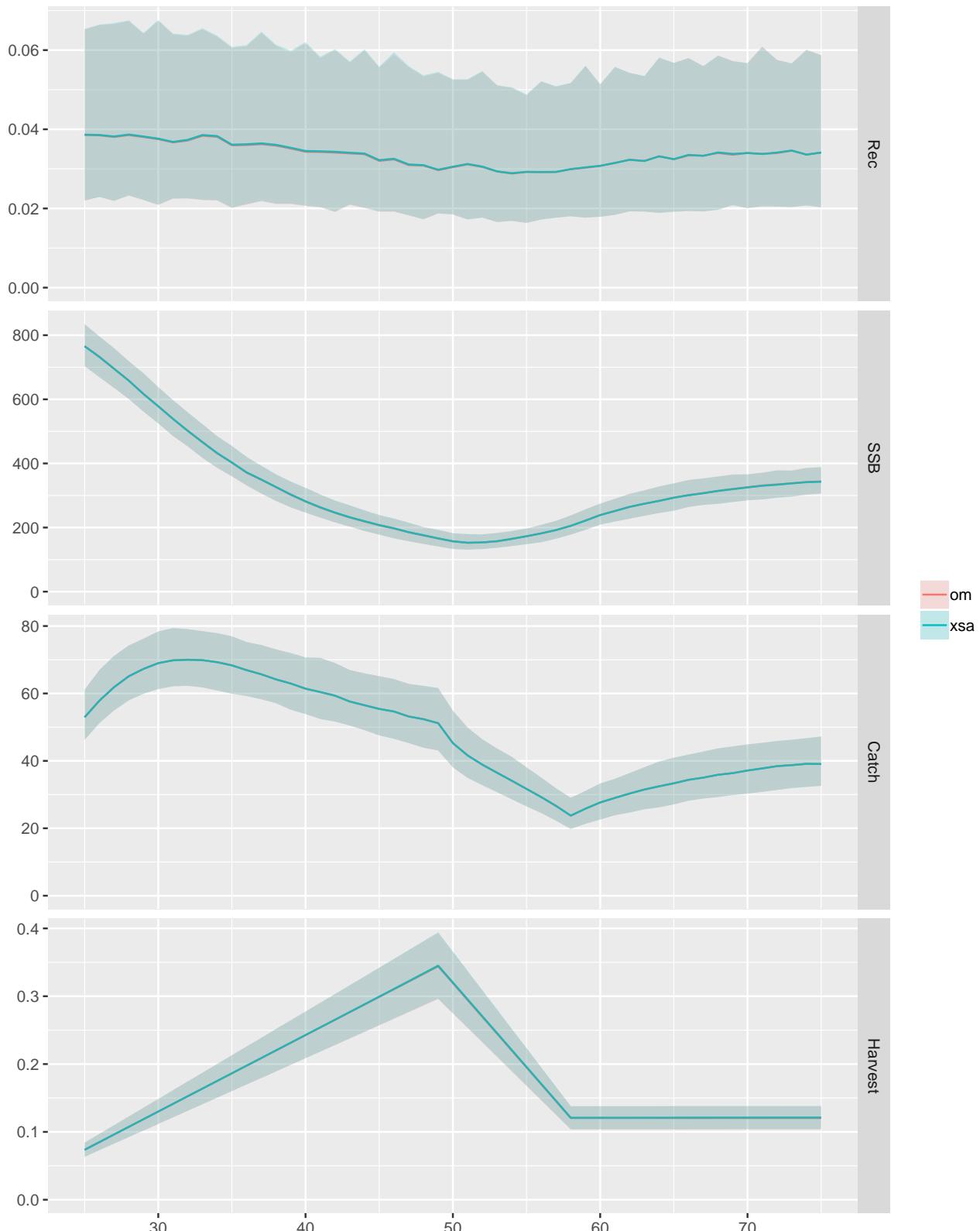


Figure 7. Simulation test for ray.

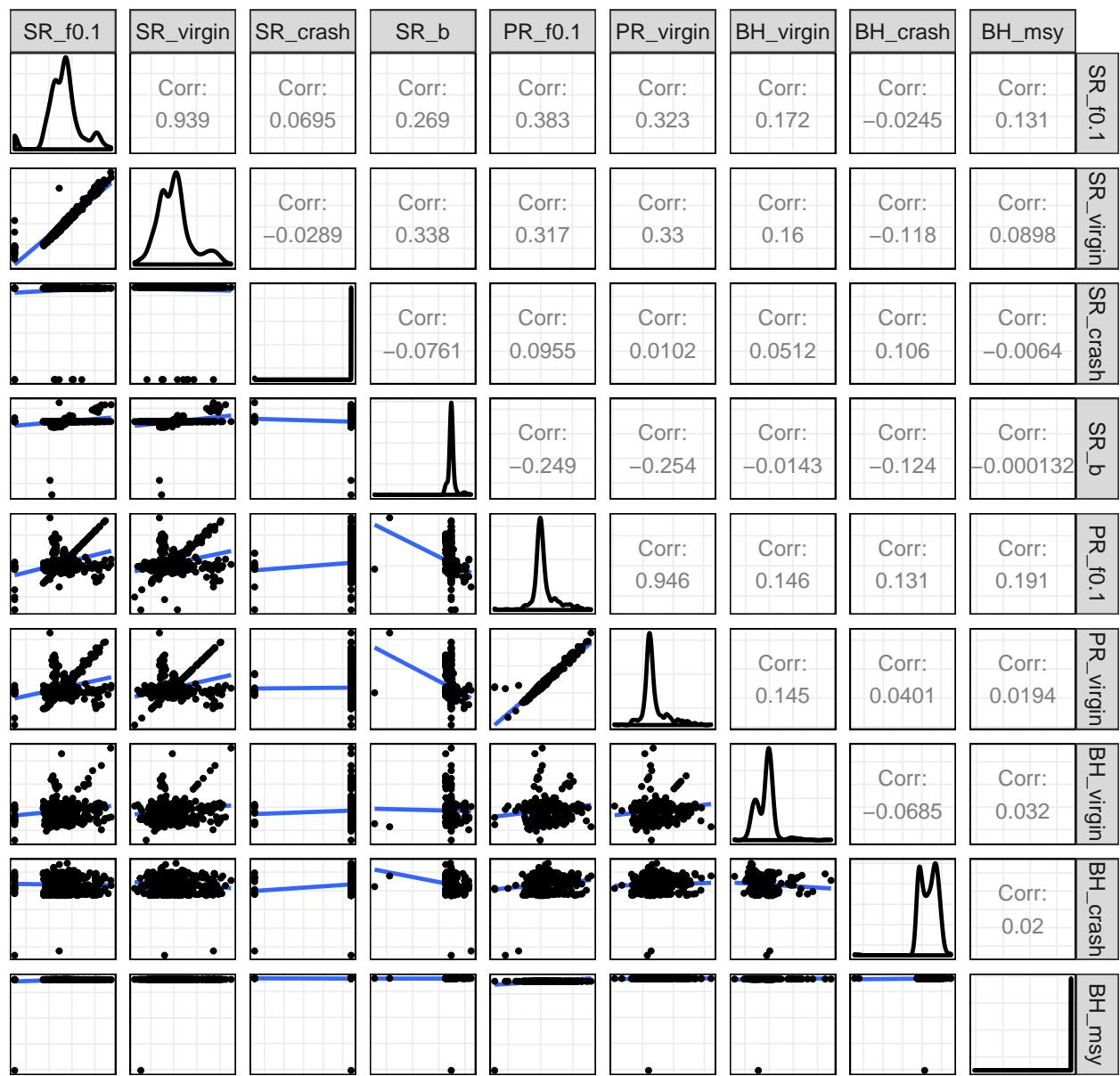


Figure 8. Cross test SSB reference points for ray.

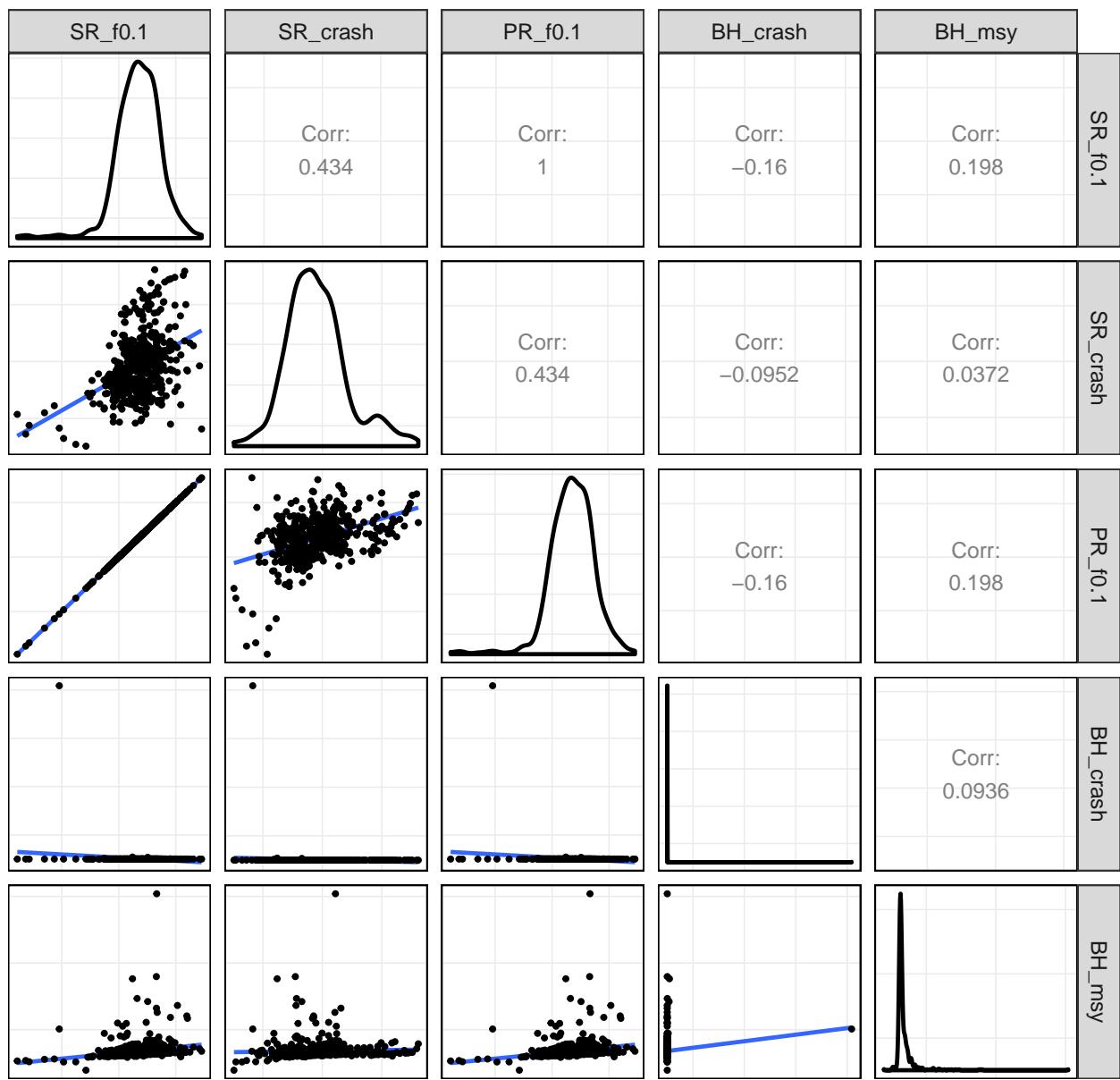


Figure 9. Cross test F reference points for ray.

Pollack

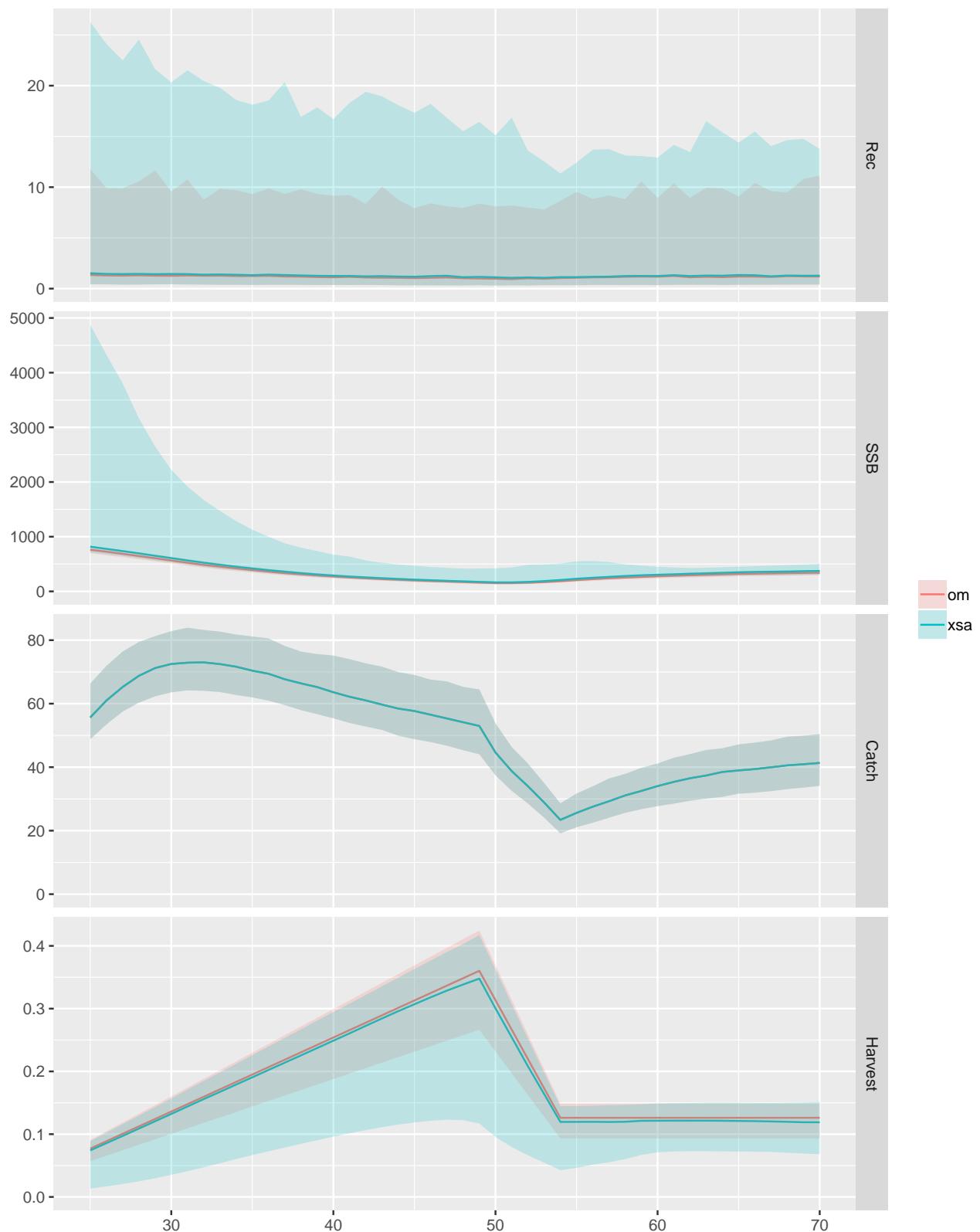


Figure 10. Simulation test for pollack.

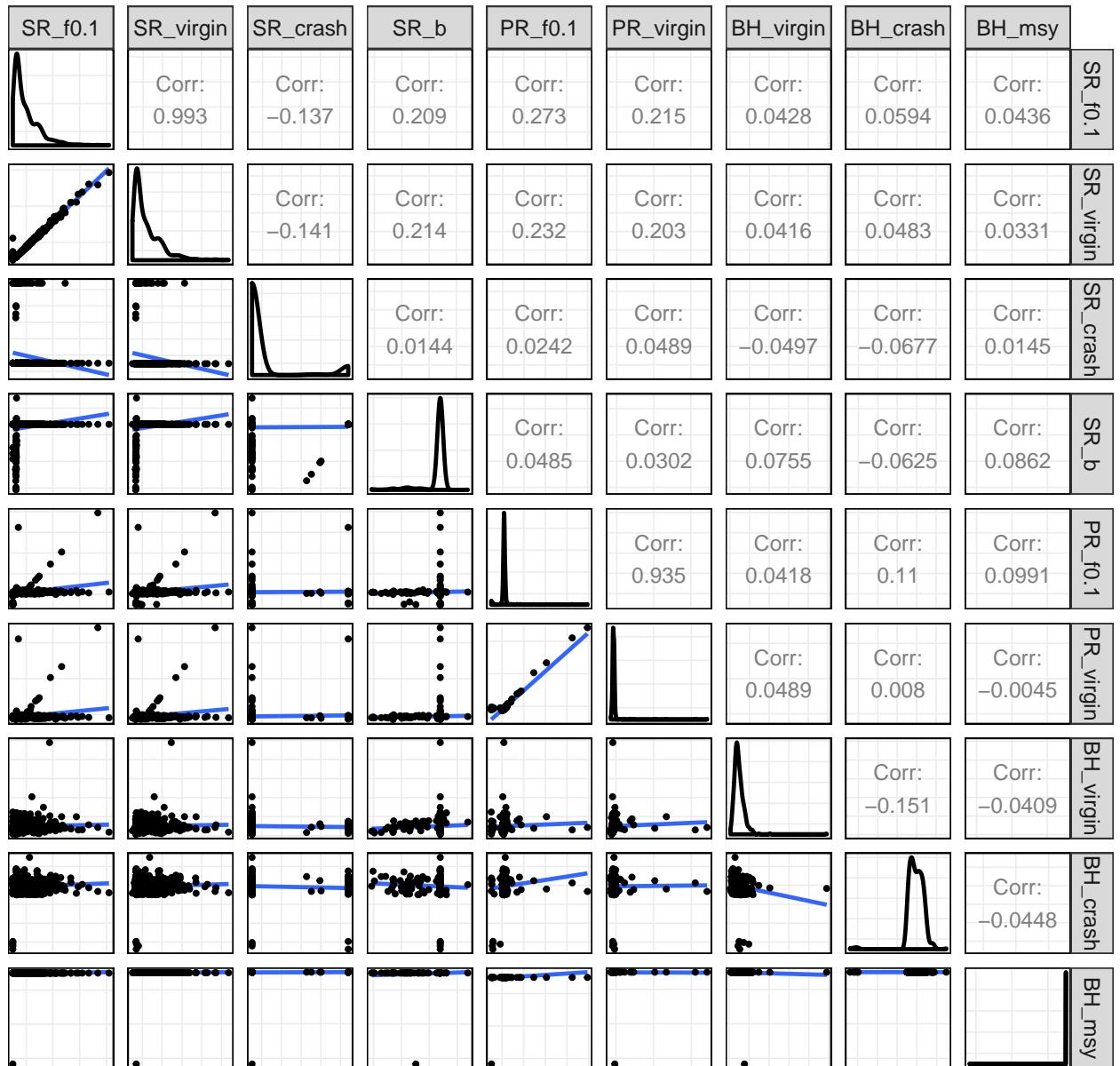


Figure 11. Cross test SSB reference points for pollack.

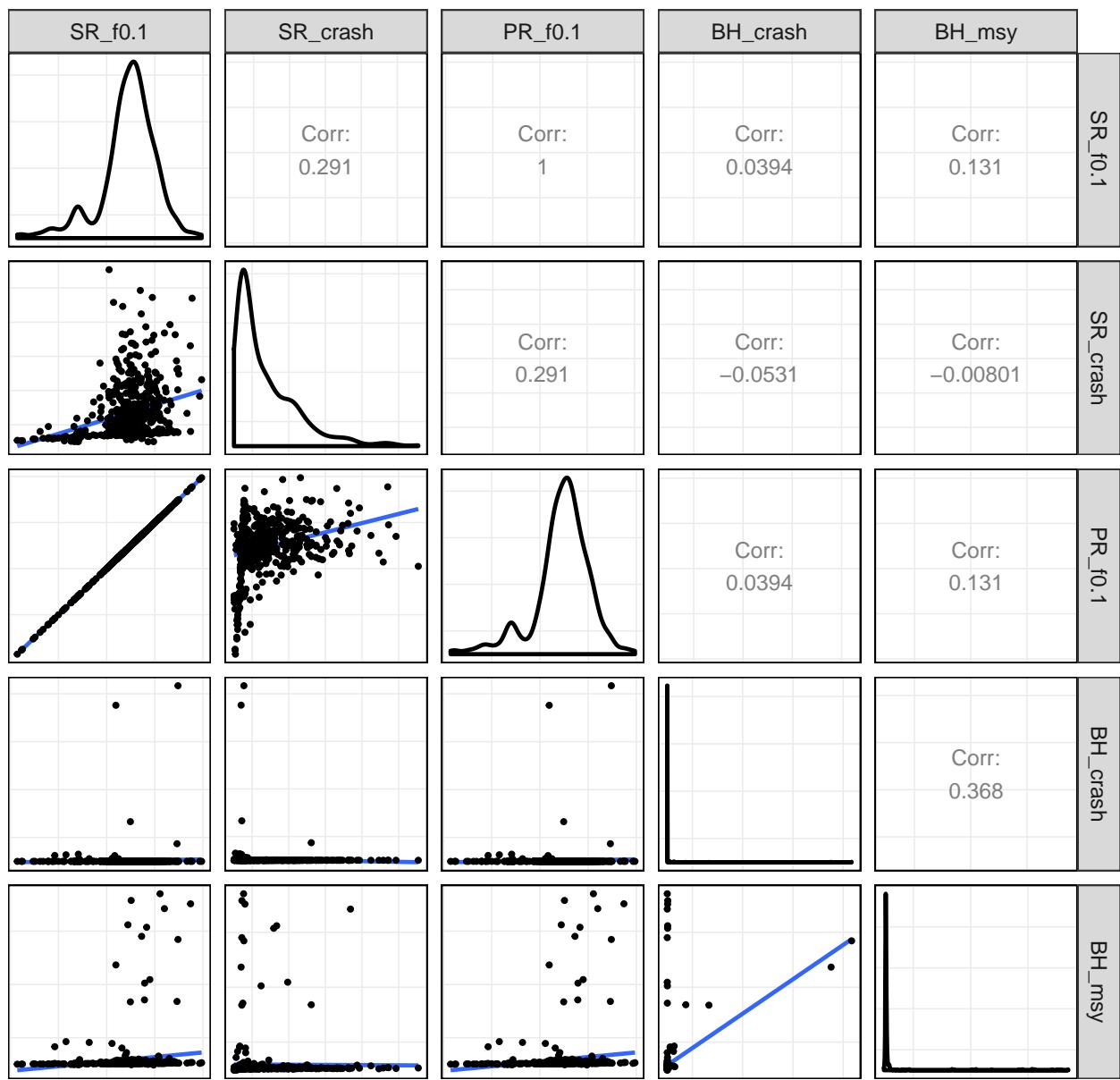


Figure 12. Cross test F reference points for pollack.

Sprat

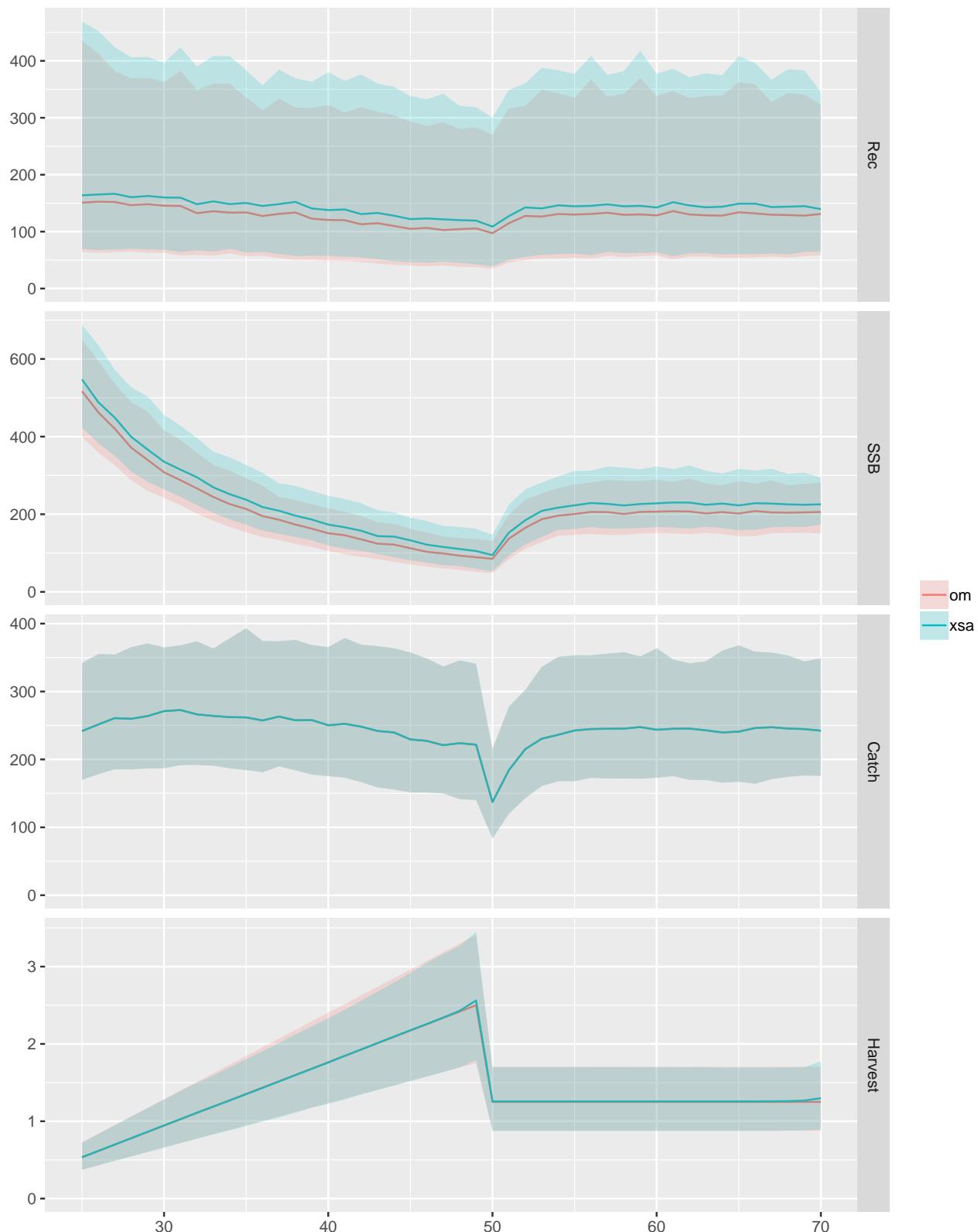


Figure 13. Simulation test for sprat.

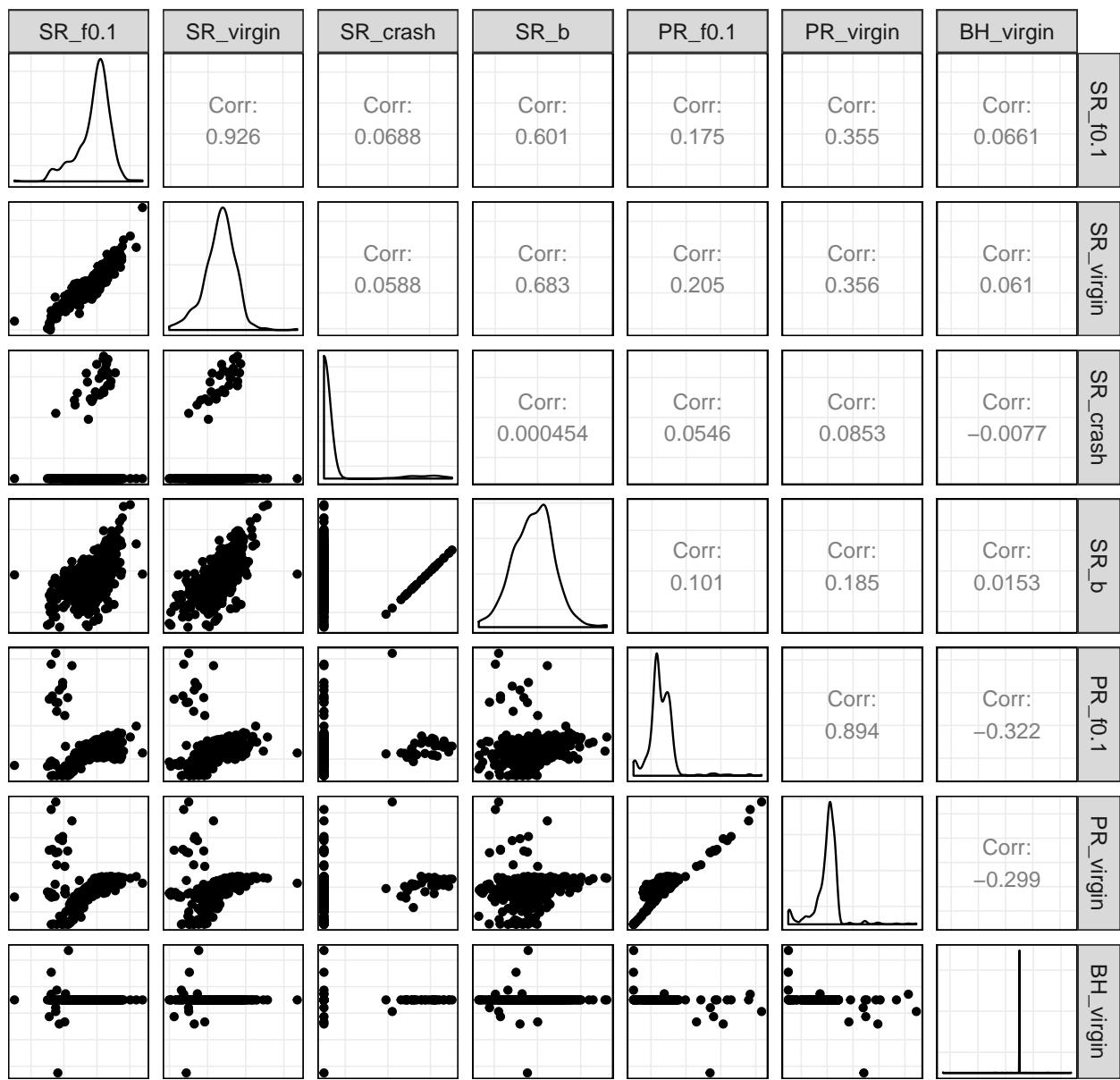


Figure 14. Cross test SSB reference points for sprat.

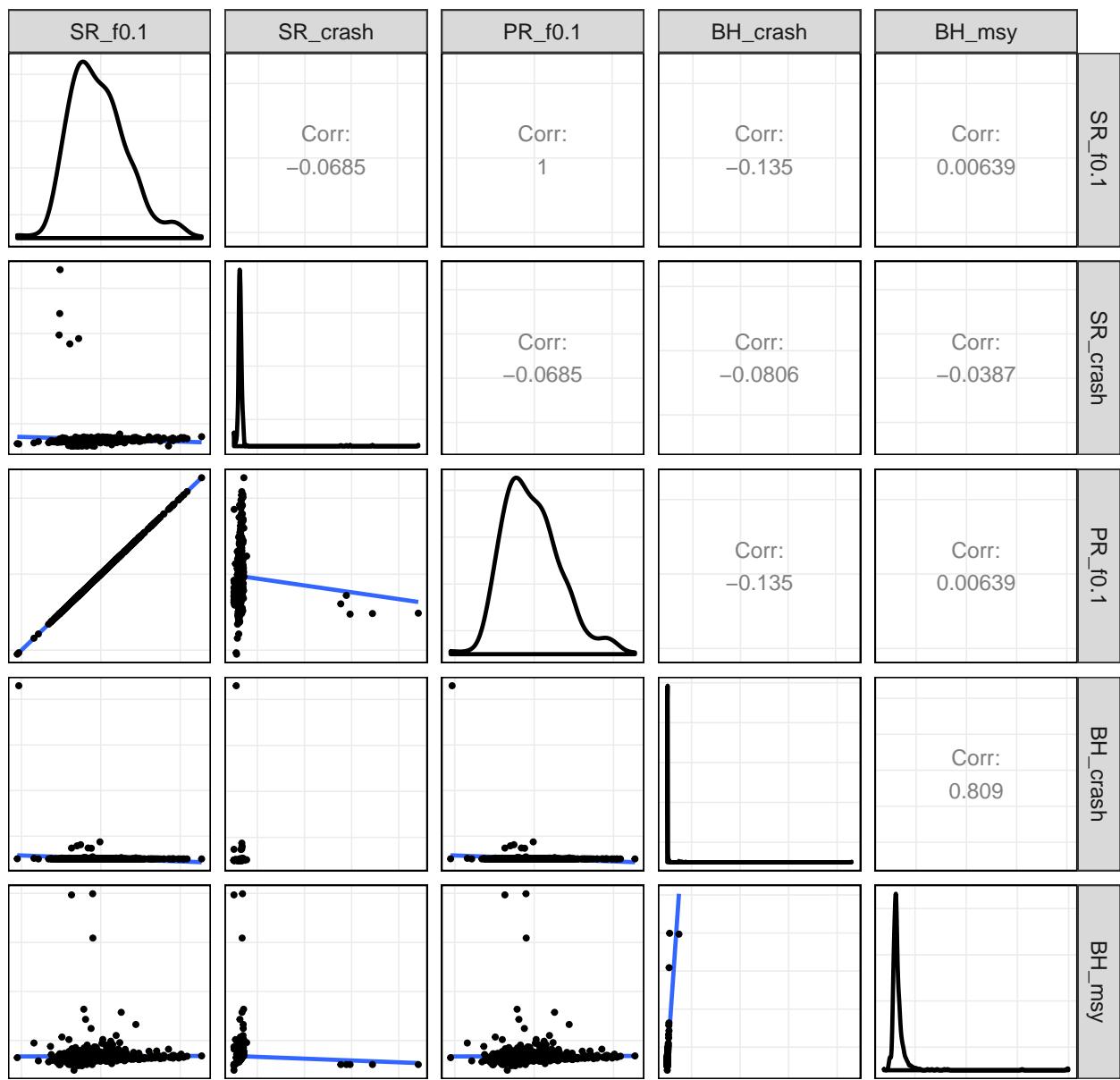


Figure 15. Cross test F reference points for sprat.

Lobster



Figure 16. Simulation test for lobster.

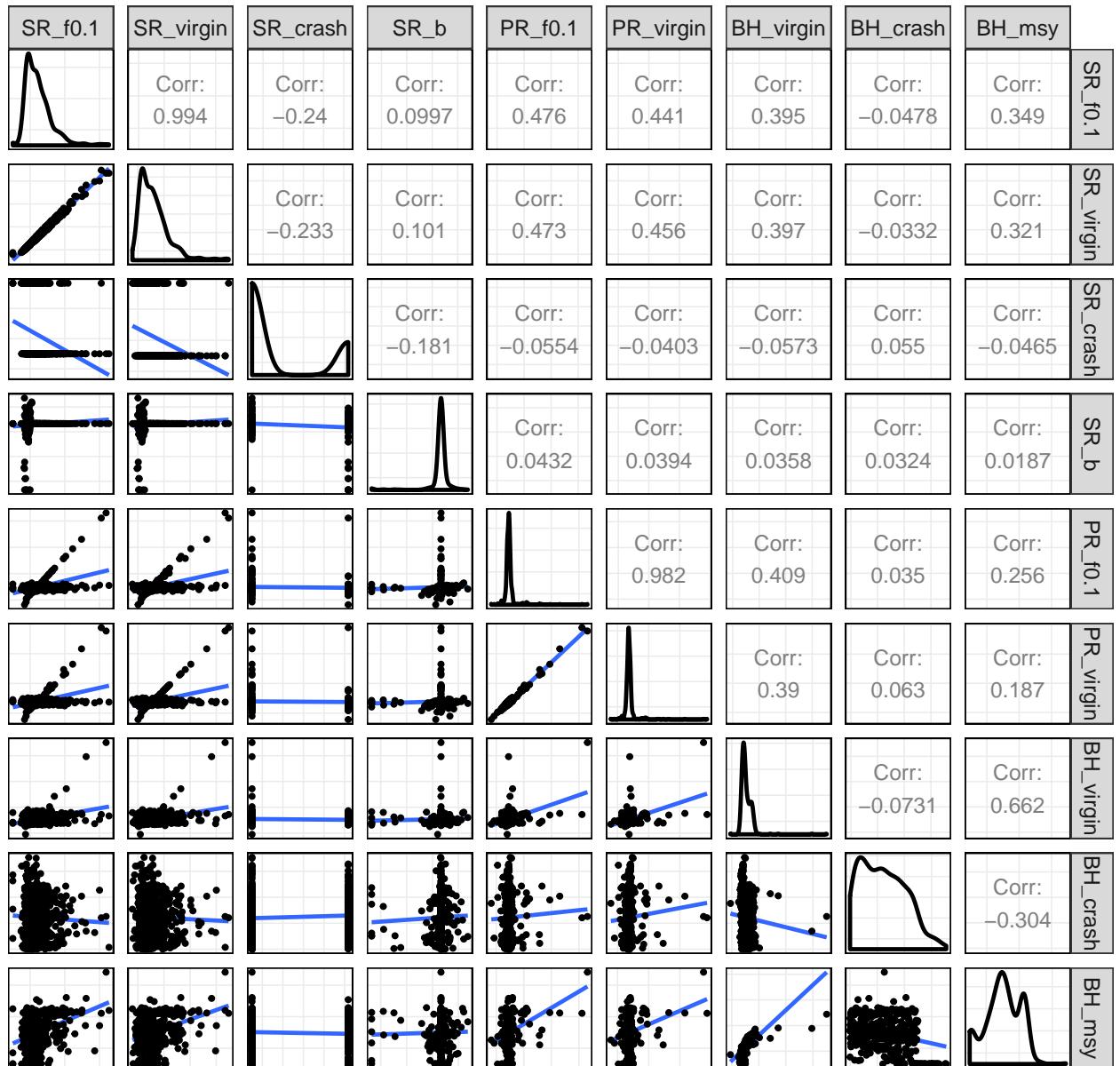


Figure 17. Cross test SSB reference points for lobster.

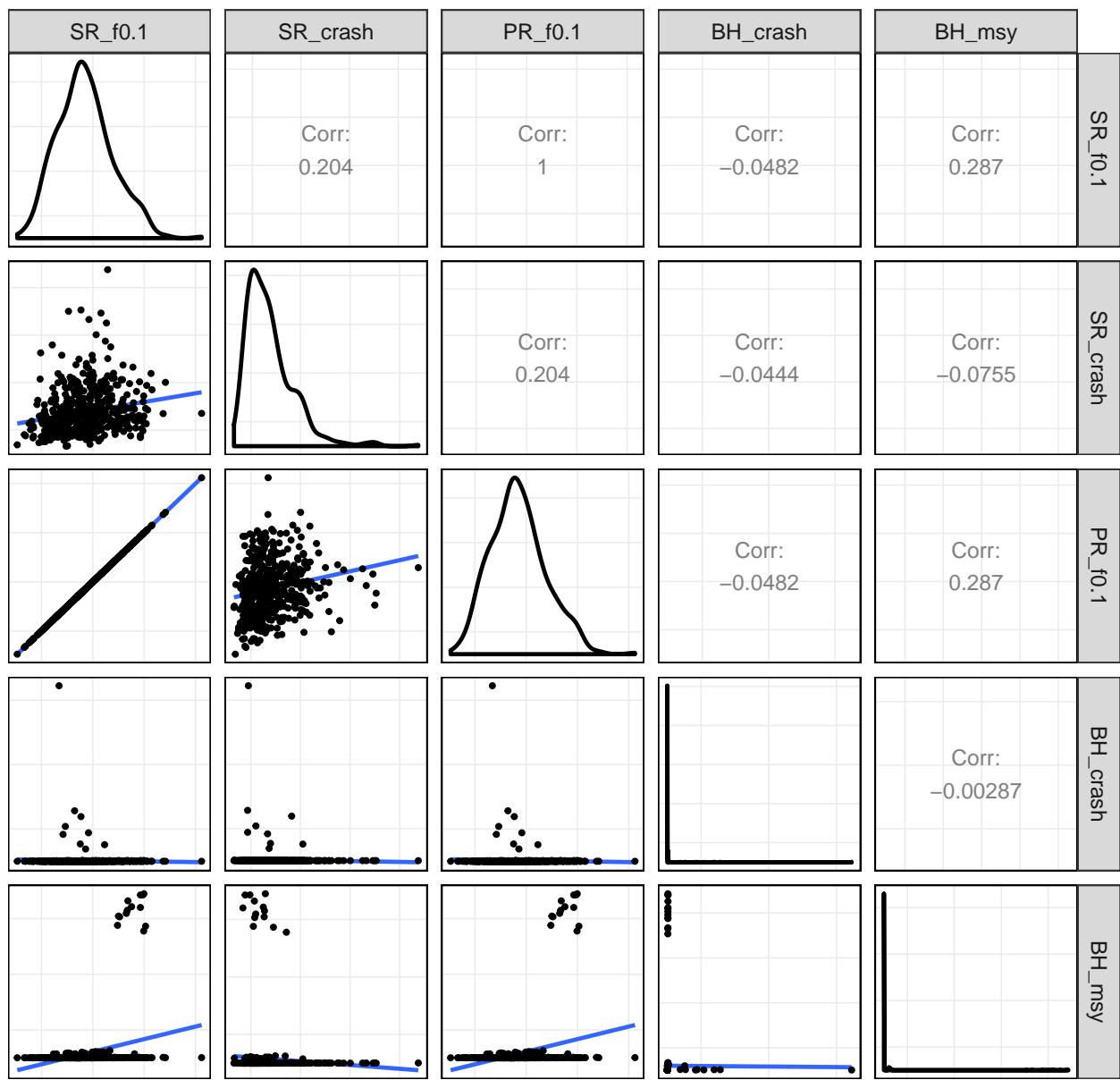


Figure 18. Cross test F reference points for lobster.

Razors

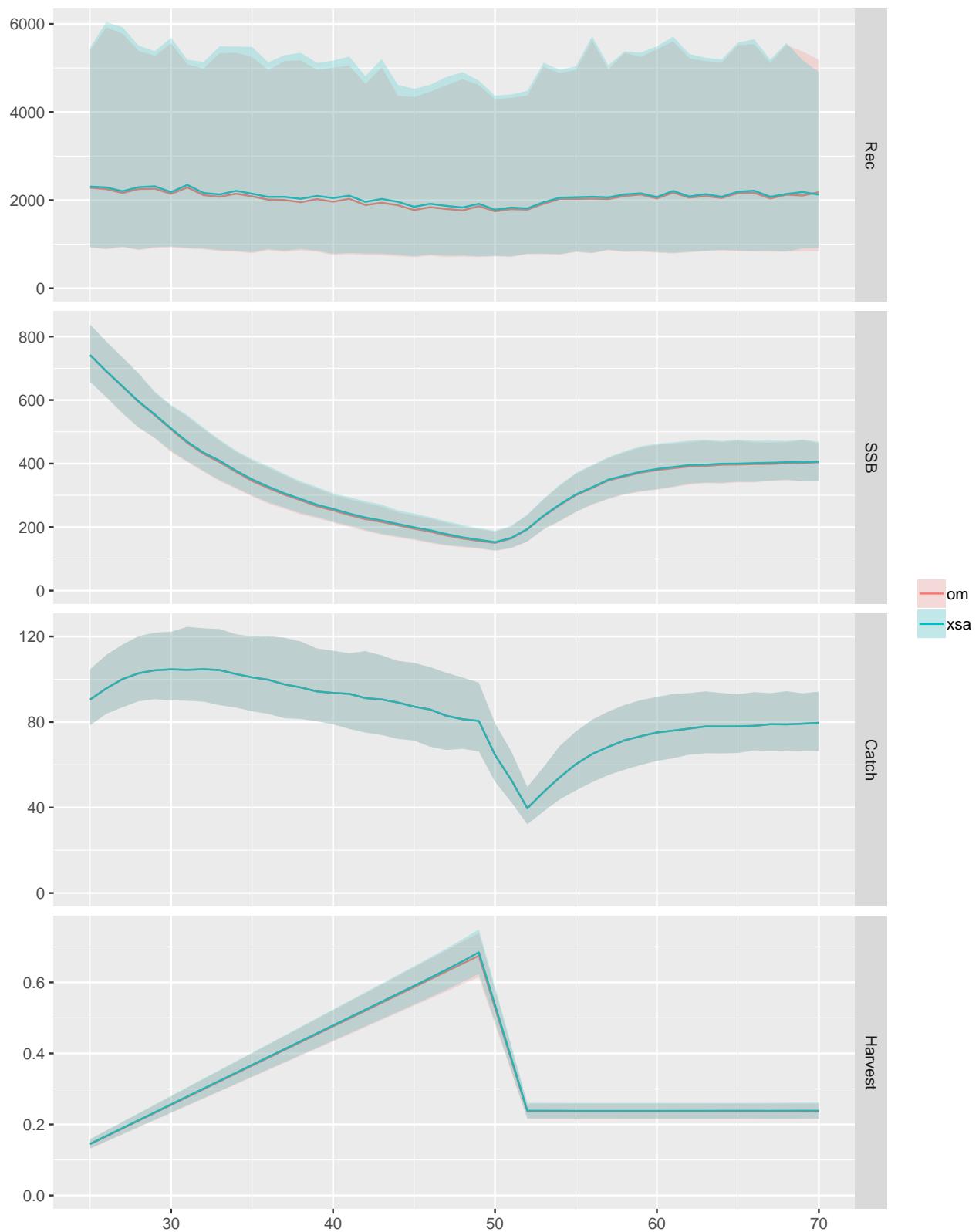


Figure 19. Simulation test for razor.

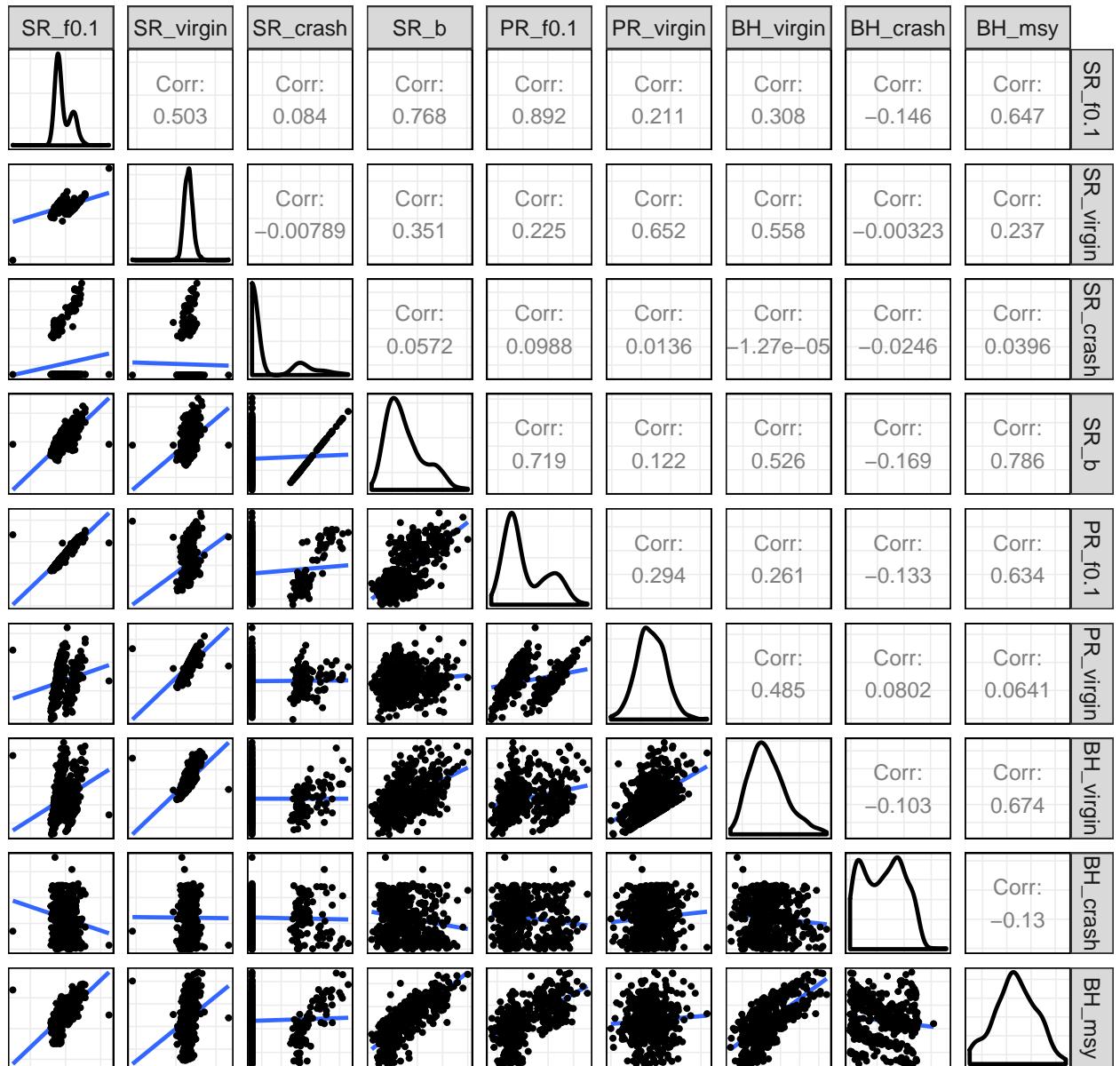


Figure 20. Cross test SSB reference points for razor.

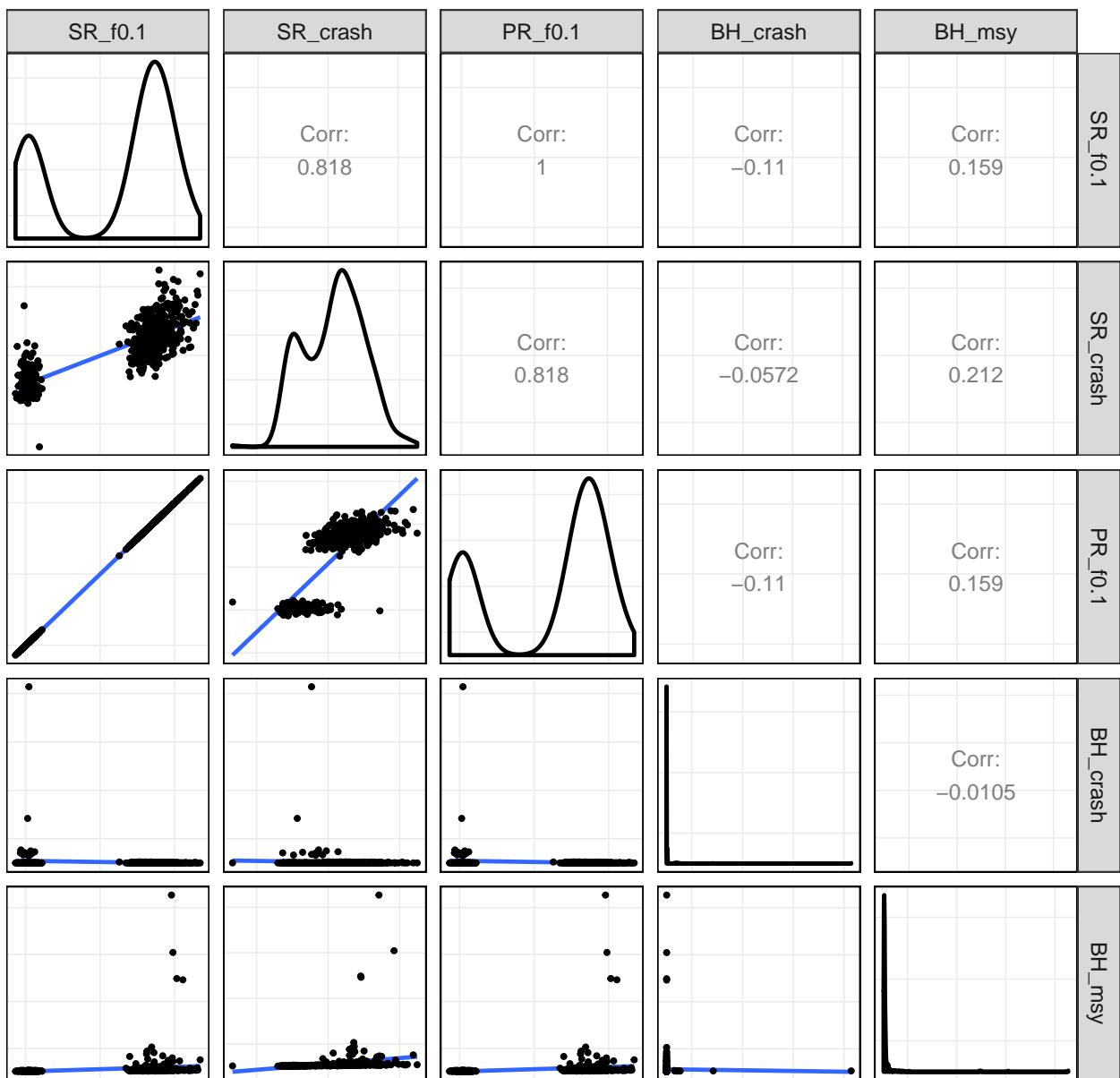


Figure 21. Cross test F reference points for razors.

Figure 22. Retrospective test

Figure 23. Single retrospective test

Software Versions

- R version 3.4.1 (2017-06-30)
- FLCore: 2.6.9.9001
- FLife: 3.2.1.9001
- FLBRP: 2.5.3
- FLAssess: 2.6.1
- FLXSA: 2.6.1
- **Compiled:** Thu Aug 16 09:58:57 2018

Author information

Laurence Kell. laurie@seaplusplus.es

Acknowledgements

This vignette and many of the methods documented in it were developed under the MyDas project funded by the Irish exchequer and EMFF 2014-2020. The overall aim of MyDas is to develop and test a range of assessment models and methods to establish Maximum Sustainable Yield (MSY) reference points (or proxy MSY reference points) across the spectrum of data-limited stocks.

References

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] parallel stats      graphics grDevices utils      datasets methods
[8] base

other attached packages:
[1] doParallel_1.0.10 iterators_1.0.9   foreach_1.4.4
[4] GGally_1.4.0      FLXSA_2.6.1     FLAssess_2.6.1
[7] FLBRP_2.5.3      ggplotFL_2.6.4   FLCore_2.6.8
[10] lattice_0.20-35  dplyr_0.7.6     plyr_1.8.4
[13] reshape_0.8.7    ggplot2_3.0.0   knitr_1.20

loaded via a namespace (and not attached):
[1] Rcpp_0.12.17      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] rmarkdown_1.9     reshape2_1.4.3  purrr_0.2.5
[28] magrittr_1.5      codetools_0.2-15 backports_1.1.2
[31] scales_0.5.0     htmltools_0.3.6 MASS_7.3-47
[34] assertthat_0.2.0  colorspace_1.3-2 labeling_0.3
[37] stringi_1.2.3    lazyeval_0.2.1  munsell_0.5.0
```