

Simulation test using Operating Model based on Life History

Biomass Dynamic

L Kell

24 July, 2018

Simulation tests

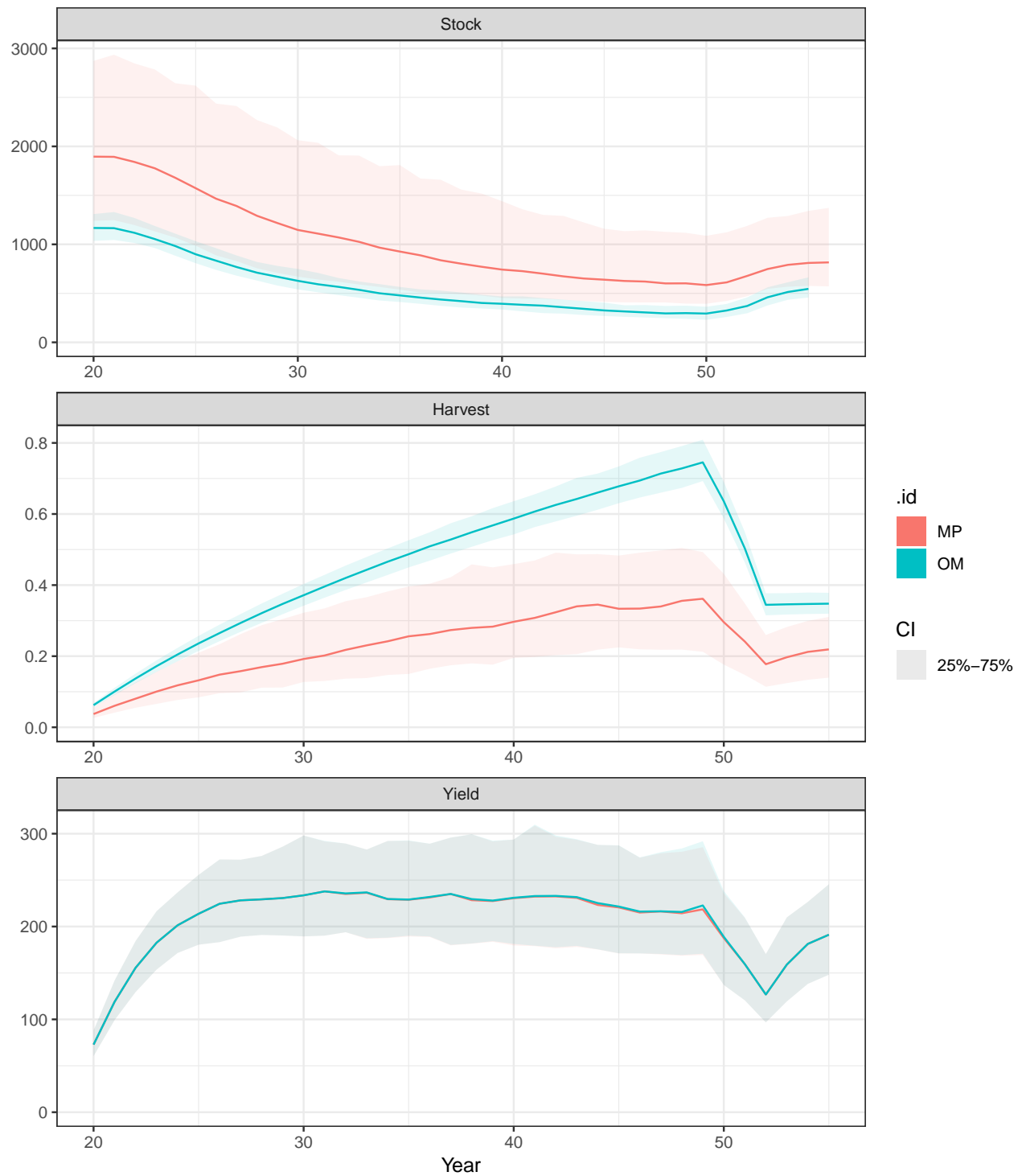


Figure 1, Simulation test of biomass dynamic assessment for brill.

Turbot

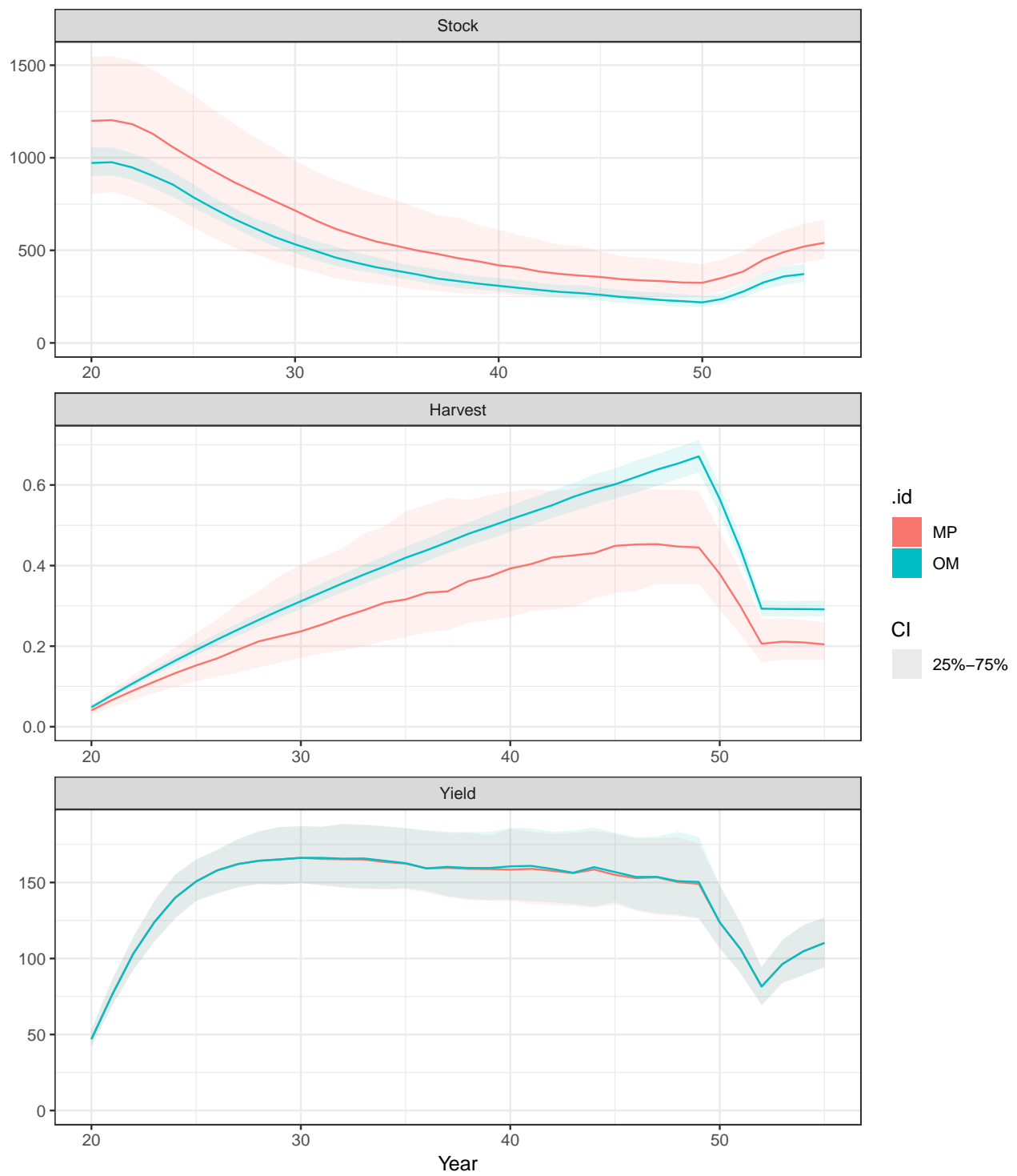


Figure 2, Simulation test of biomass dynamic assessment for turbot.

Ray

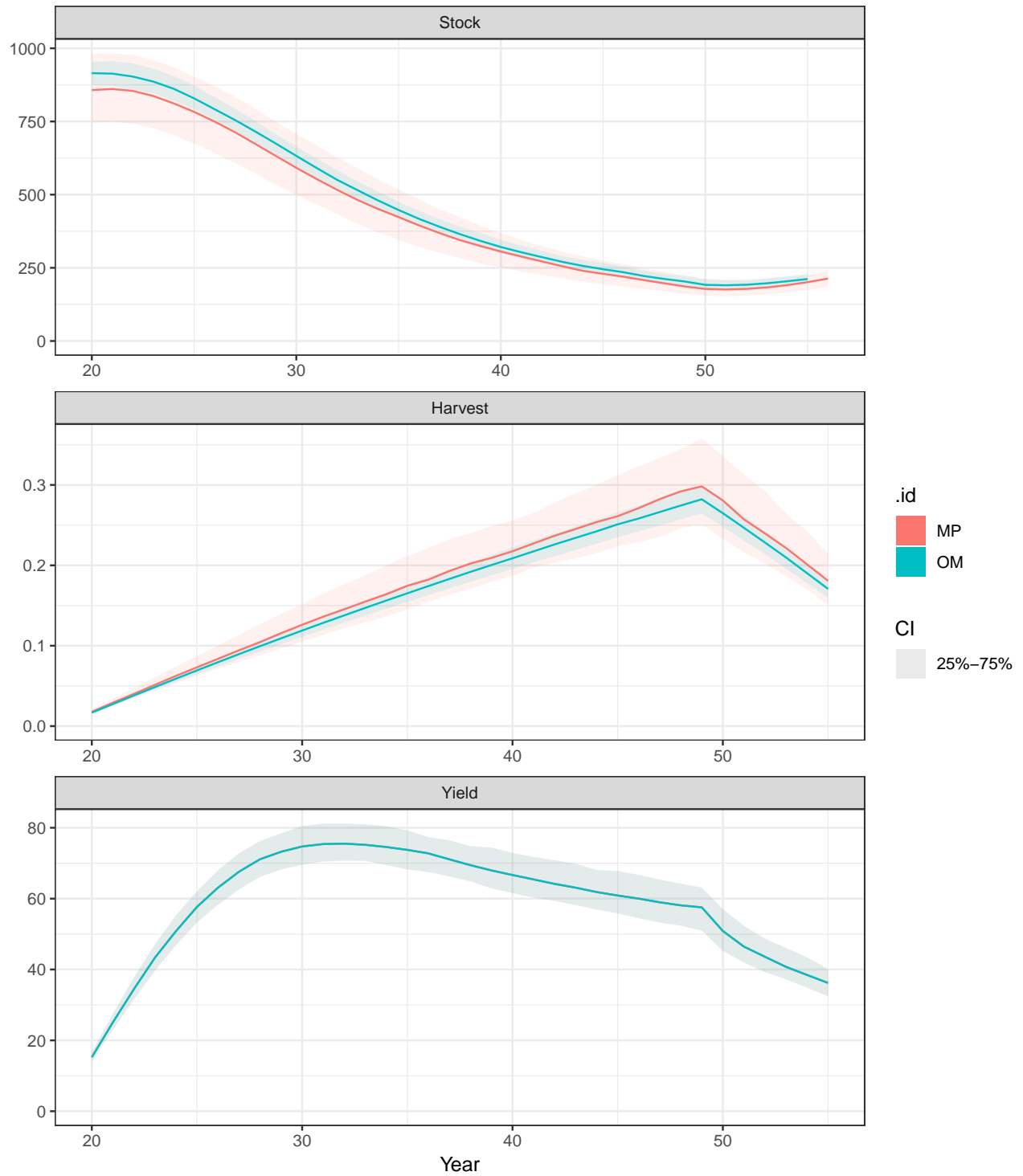


Figure 3, Simulation test of biomass dynamic assessment for ray.

Pollack

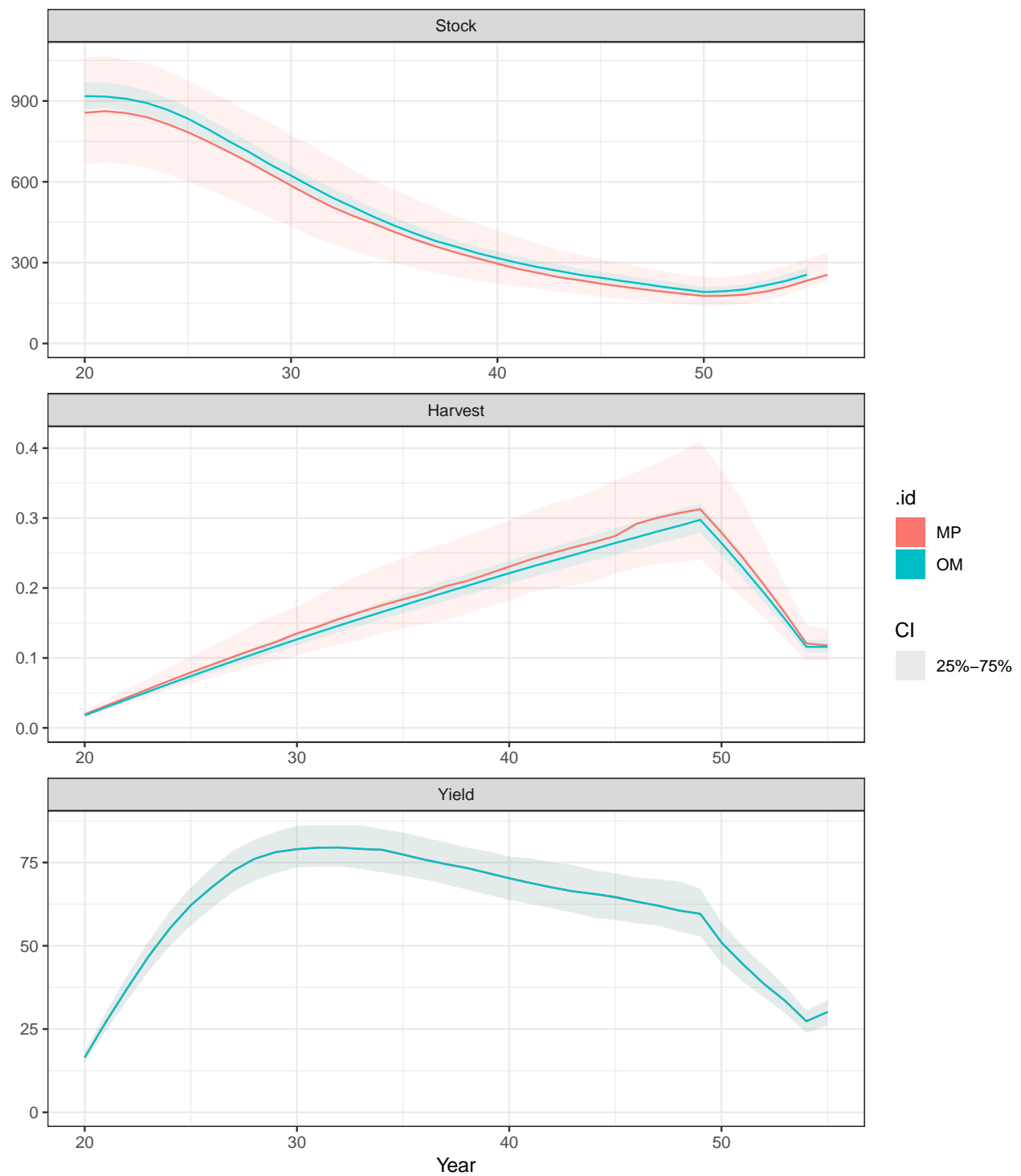


Figure 4, Simulation test of biomass dyanmic assessment for pollack.

Sprat

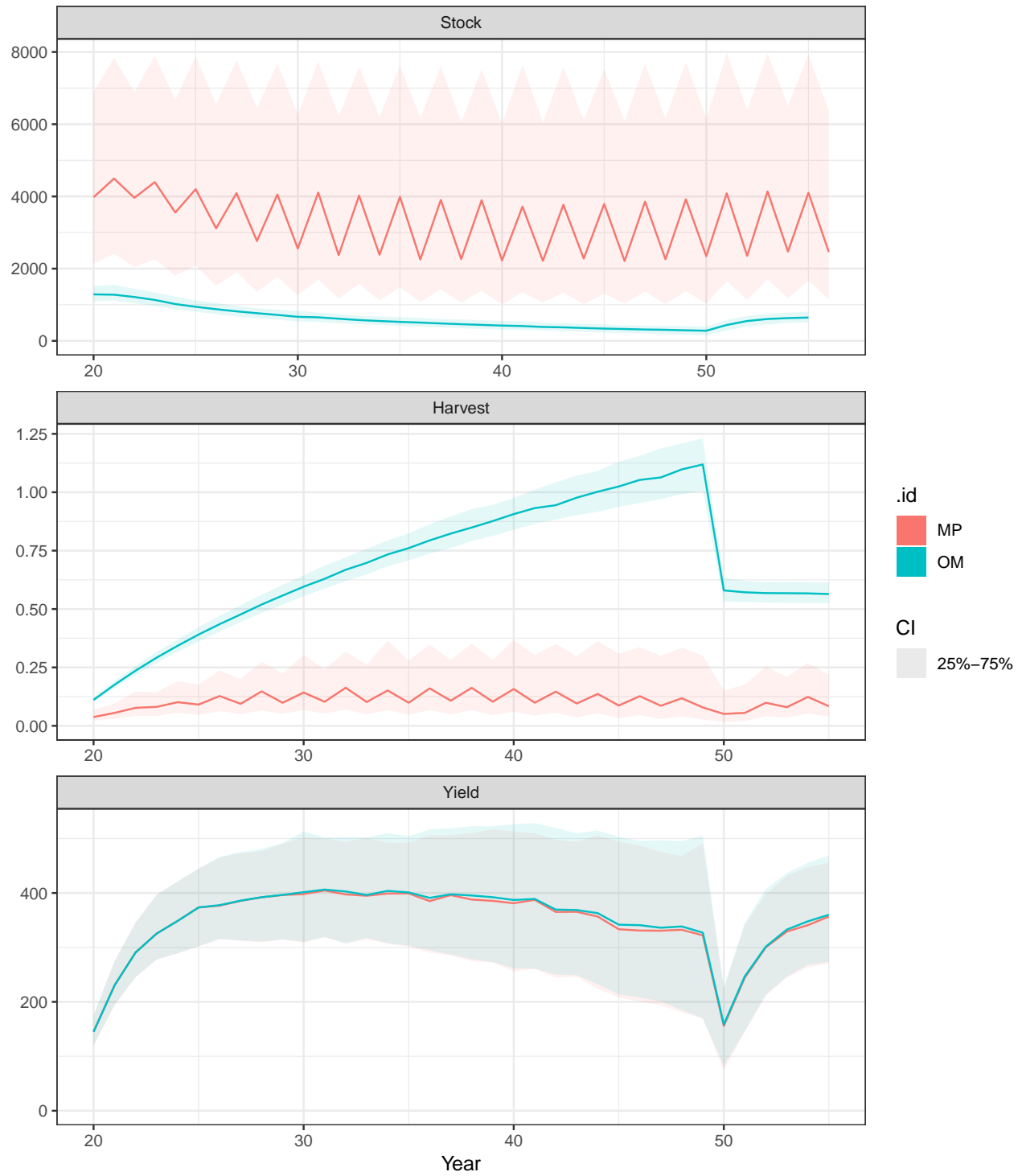


Figure 5, Simulation test of biomass dynamic assessment for sprat.

Lobster

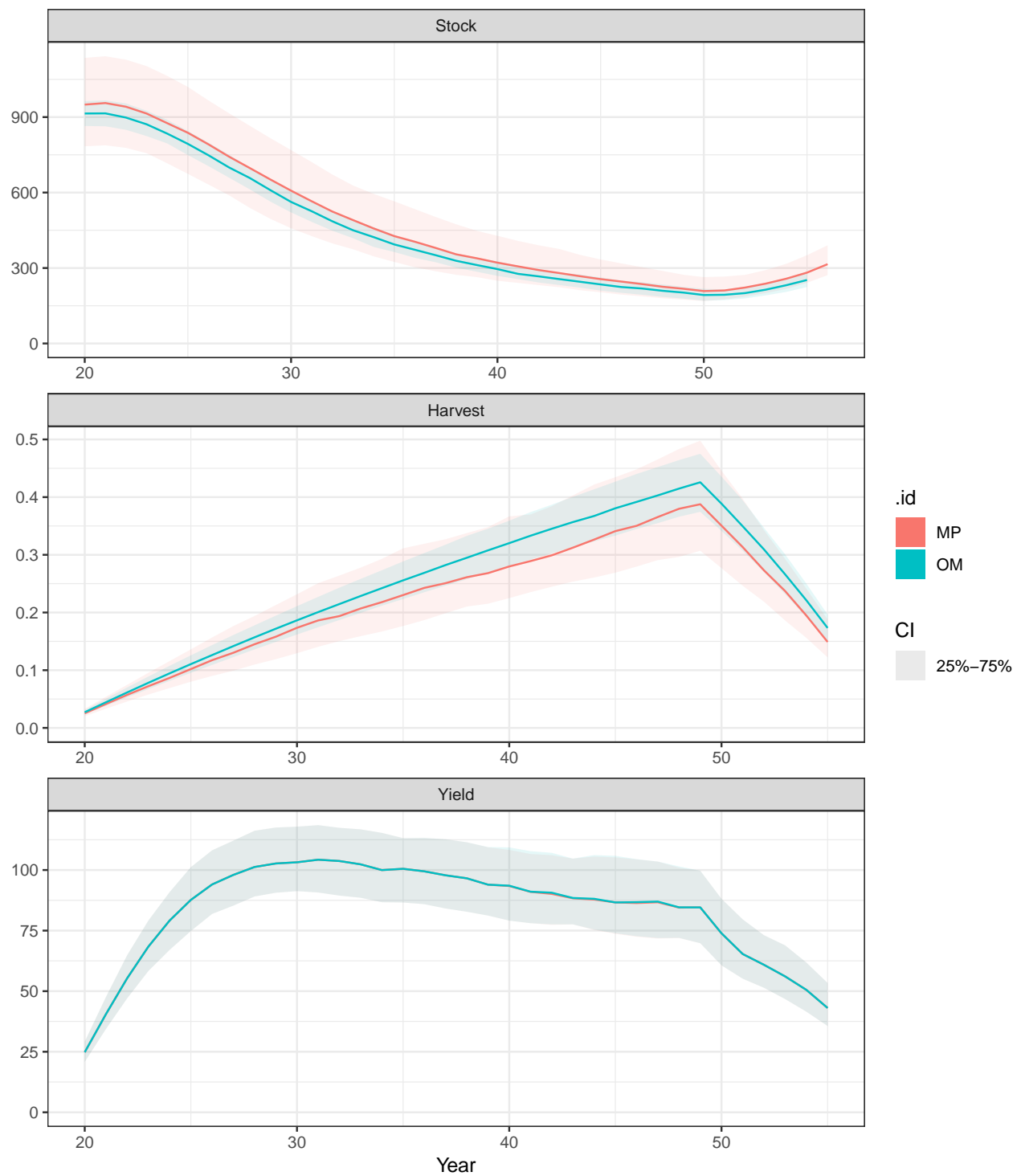


Figure 6, Simulation test of biomass dynamic assessment for lobster.

Razor

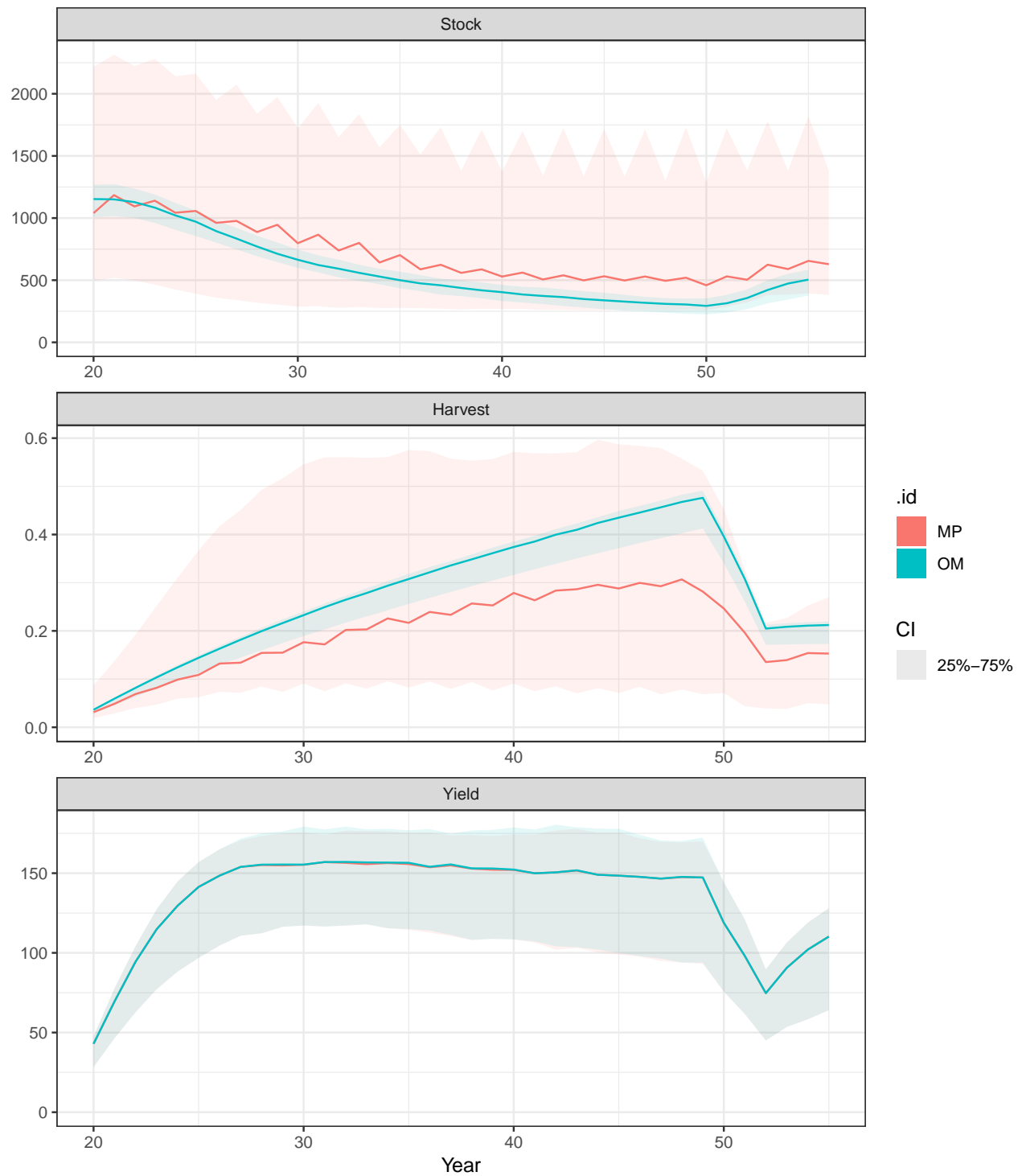


Figure 7, Simulation test of biomass dynamic assessment for razor.

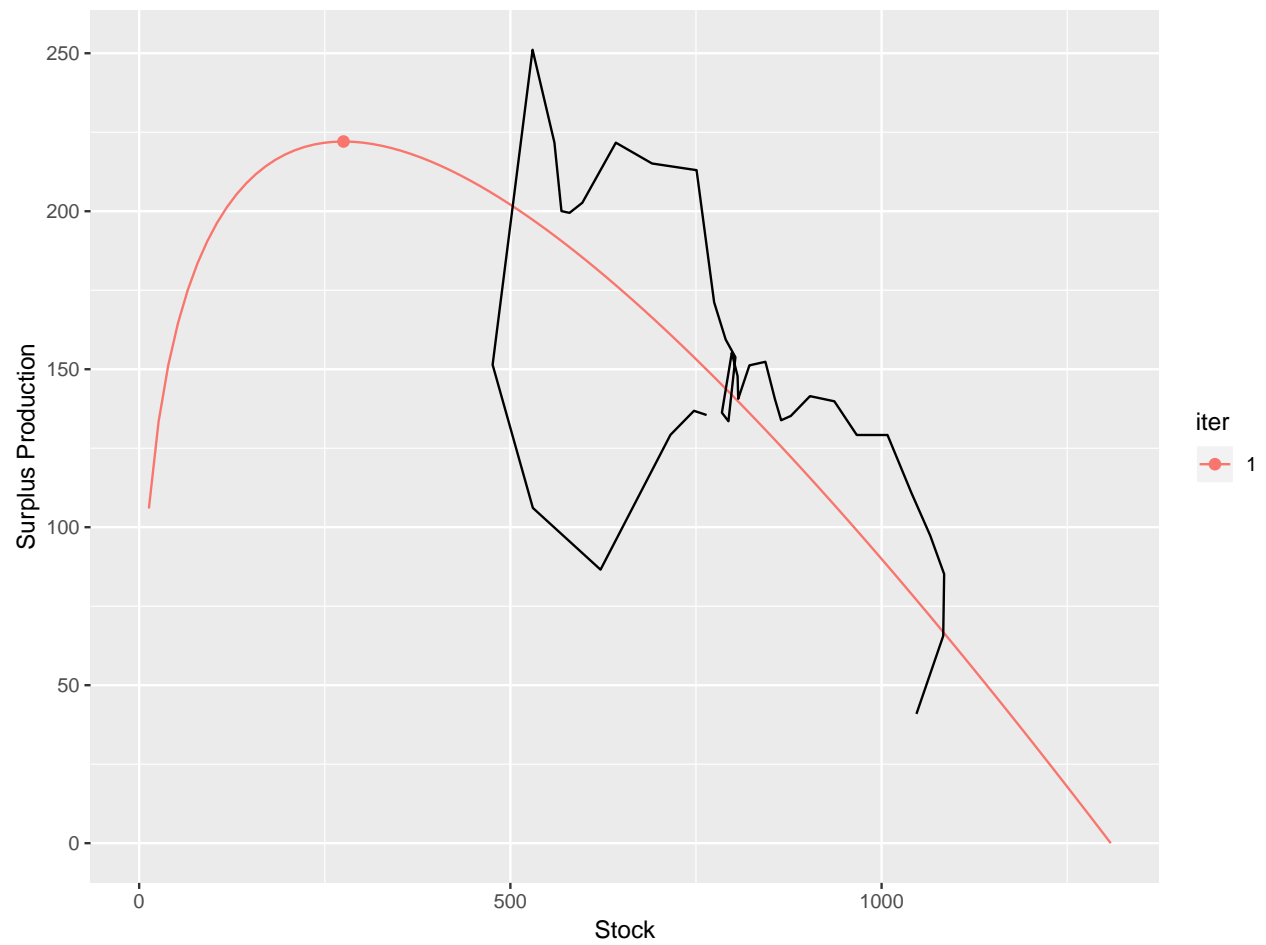


Figure 8, Biomass dynamic production function.

Figure 9, Biomass dynamic

Figure 10, Biomass dynamic

Software Versions

- R version 3.4.1 (2017-06-30)
- FLCore: 2.6.9
- FLlife: 3.2.0
- FLBRP: 2.5.3
- **Compiled:** Tue Jul 24 09:16:47 2018

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Acknowledgements

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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] stats      graphics  grDevices  utils      datasets  methods    base
```

other attached packages:

```
[1] mpb_3.0.0      ggplotFL_2.6.4  FLCore_2.6.9    lattice_0.20-35
[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_0.12.18    pillar_1.1.0    compiler_3.4.1  bindr_0.1.1
[5] tools_3.4.1     digest_0.6.15   evaluate_0.10.1 tibble_1.4.2
```

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[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	FLRP_1.0.1.9002	purrr_0.2.5	magrittr_1.5
[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
[37]	labeling_0.3	stringi_1.2.3	lazyeval_0.2.1	munsell_0.5.0