

SNEMA M-at-Age Model

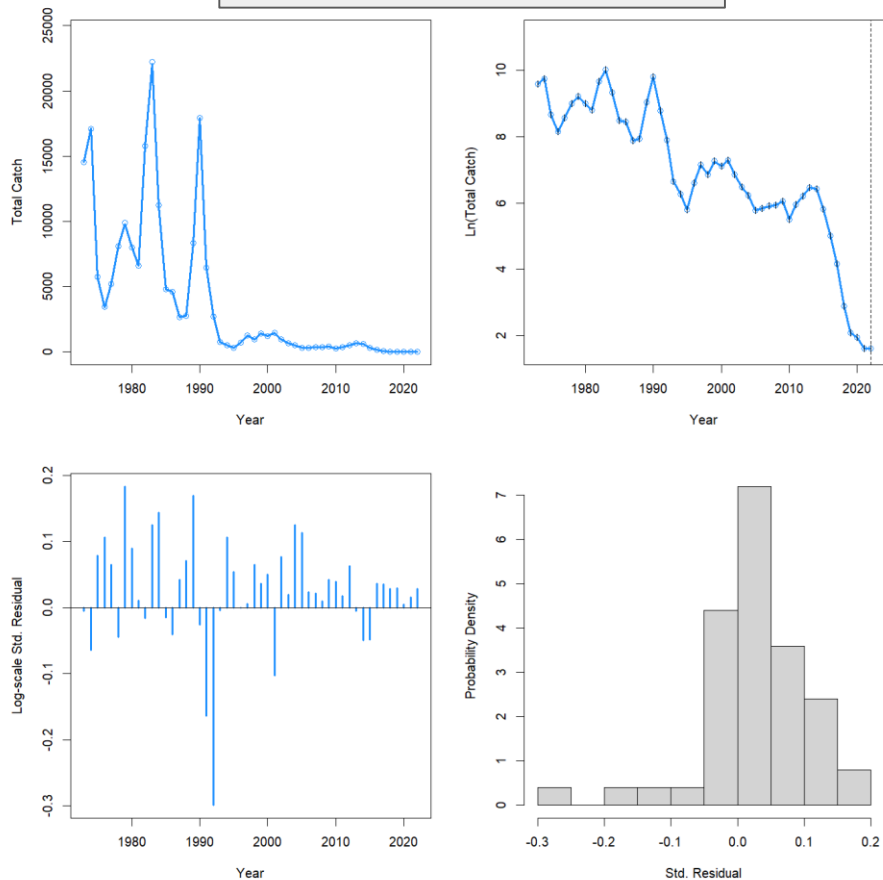
Cameron Hodgdon

Convergence: First and Second Order Criteria Passed

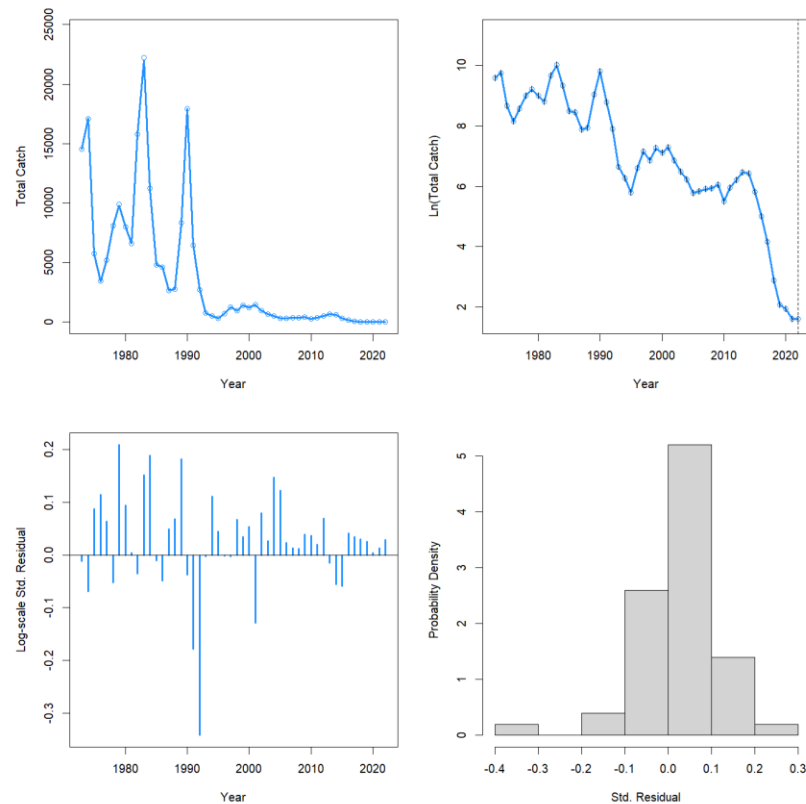
	dAIC	AIC	rho_R	rho_SSB	rho_Fbar
Age-specific M	0.0	-1949.5	0.6089	0.1596	-0.0195
Candidate Model	0.9	-1948.6	0.6705	0.1454	-0.0144

- AIC within 2; negligible differences
- Rho SSB and Rho F better in Candidate Model
- Rho R was not a model evaluation criteria (only R patterns)

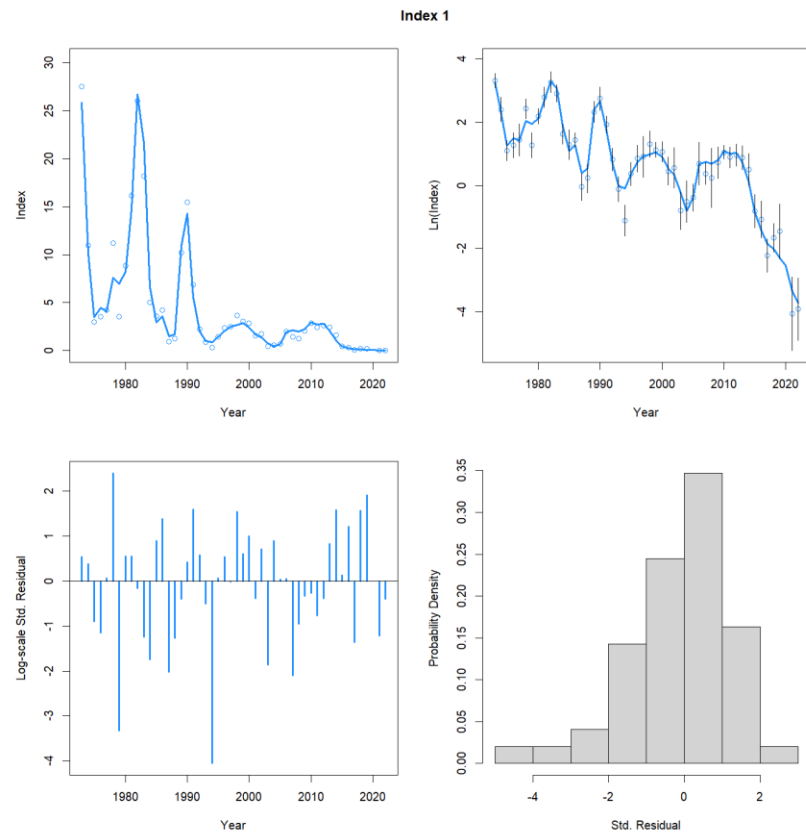
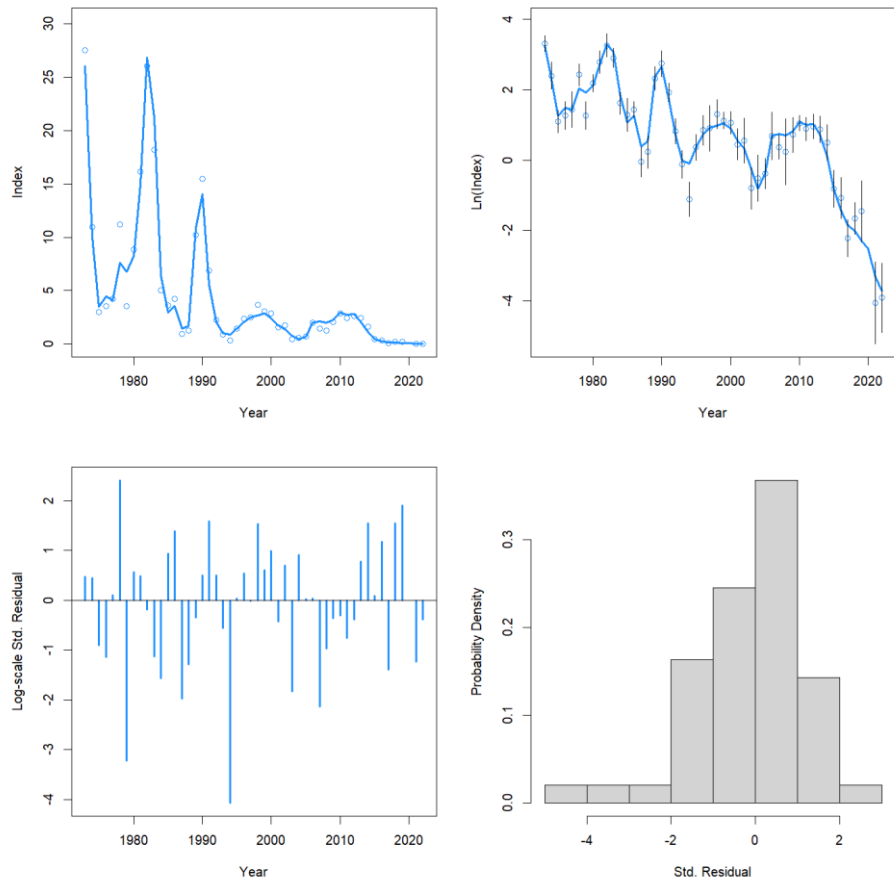
FLEET



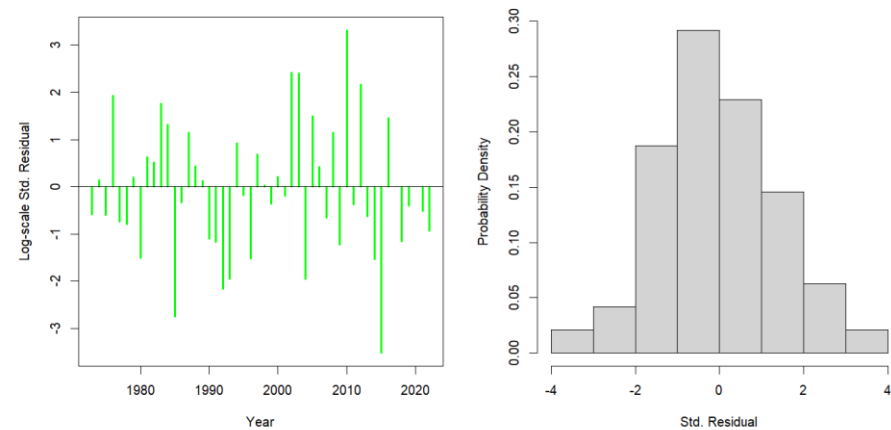
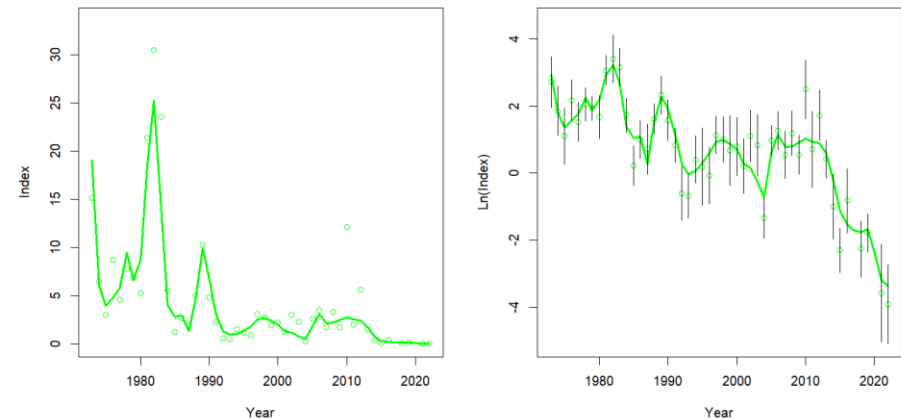
Fleet 1 Catch



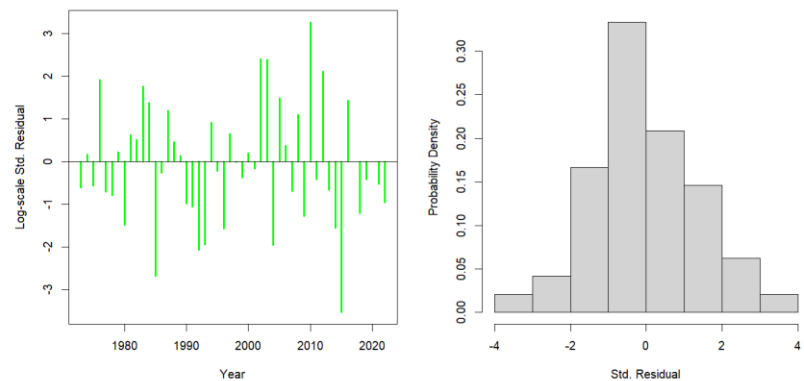
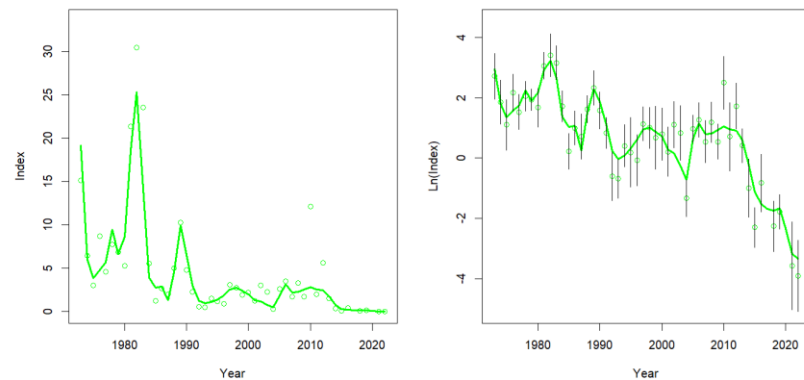
NEFSC Spring



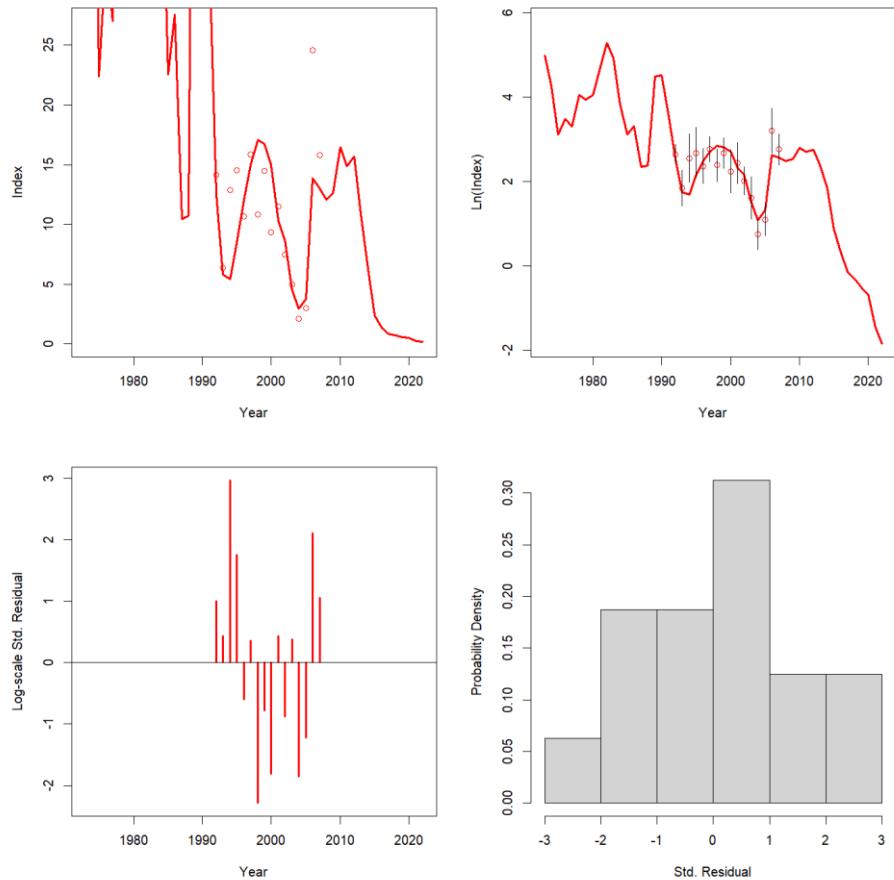
NEFSC Fall



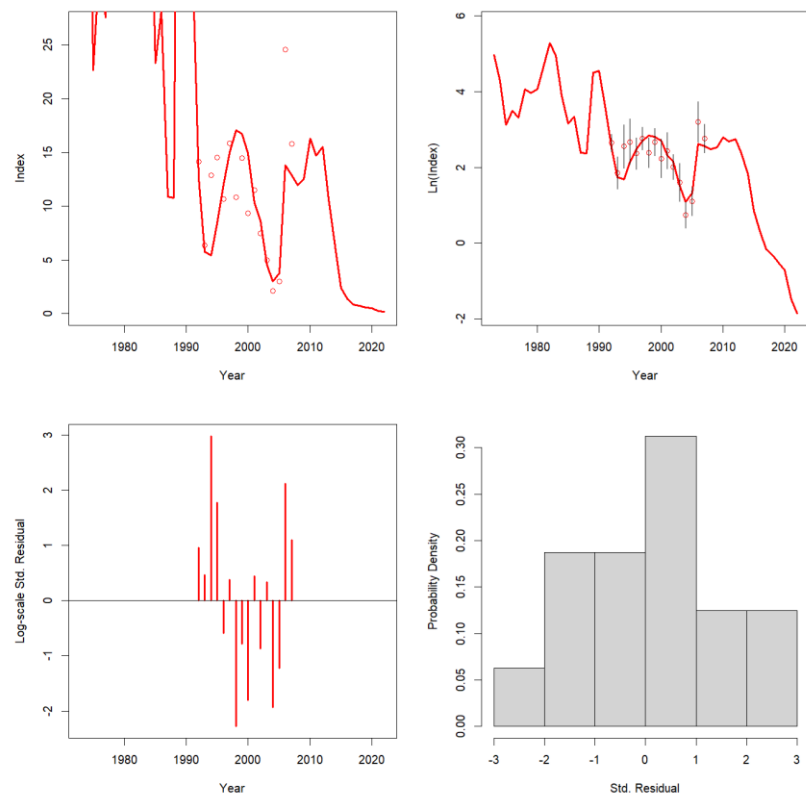
Index 2



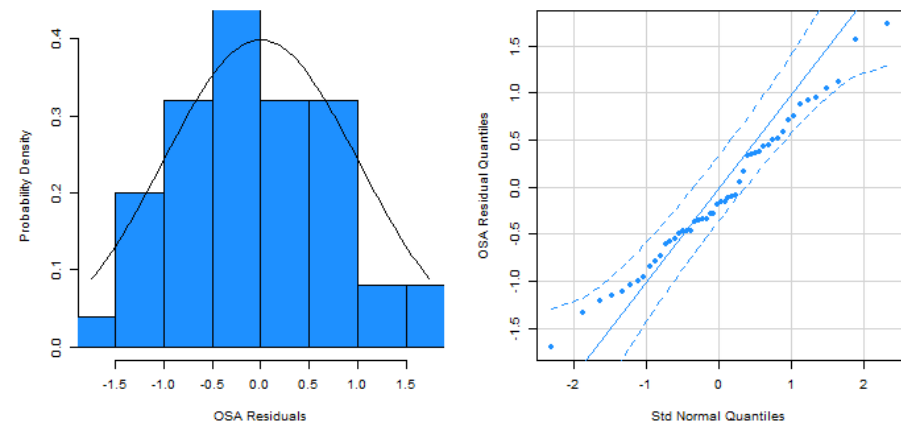
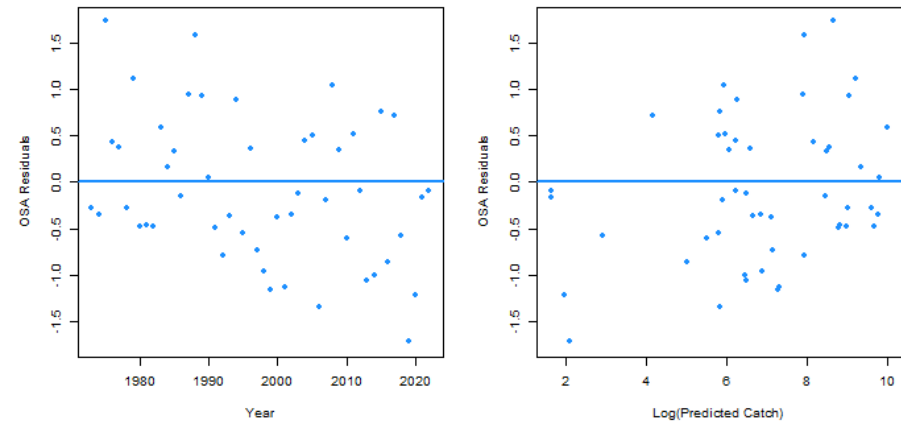
NEFSC Winter



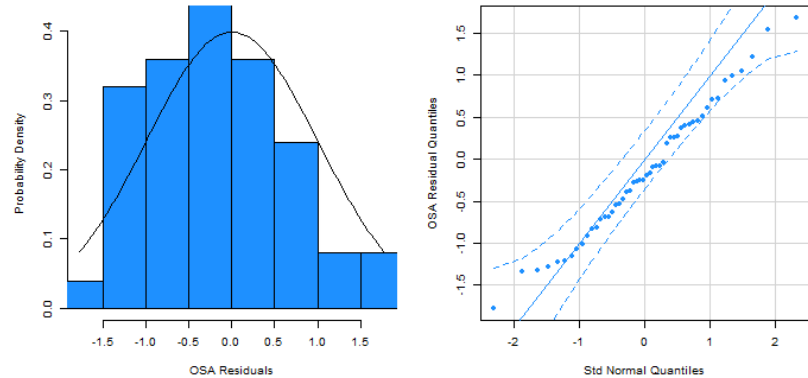
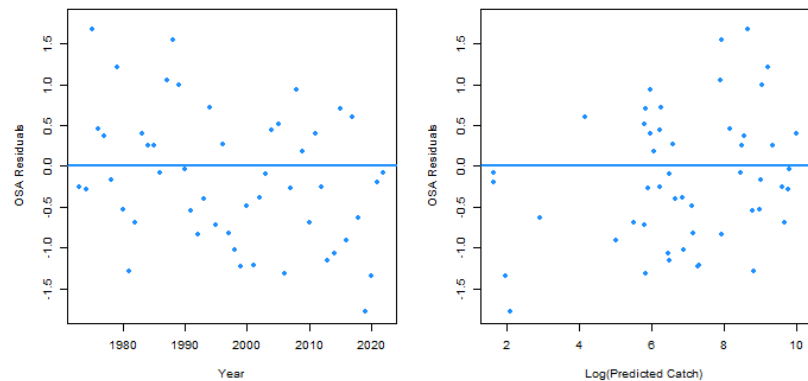
Index 3



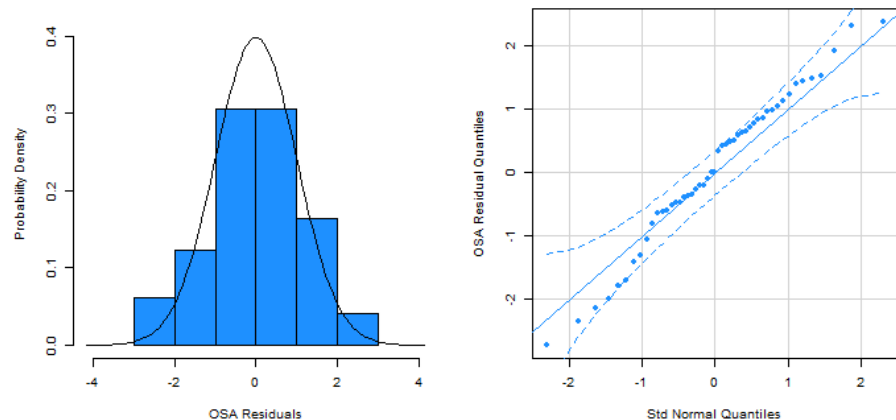
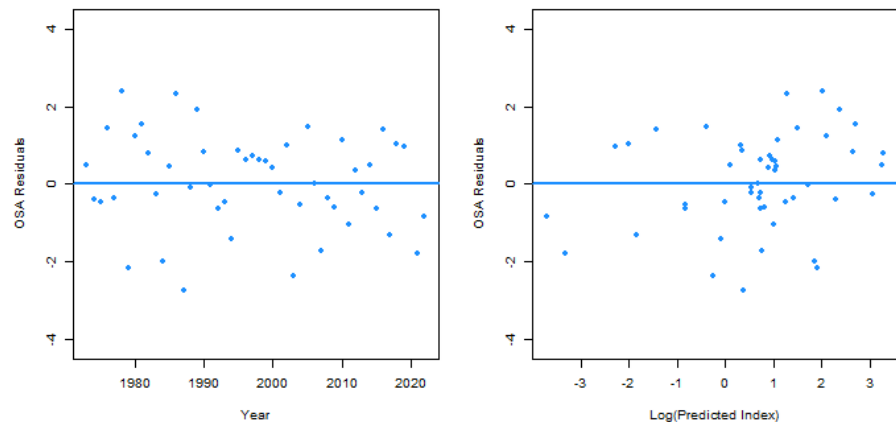
FLEET



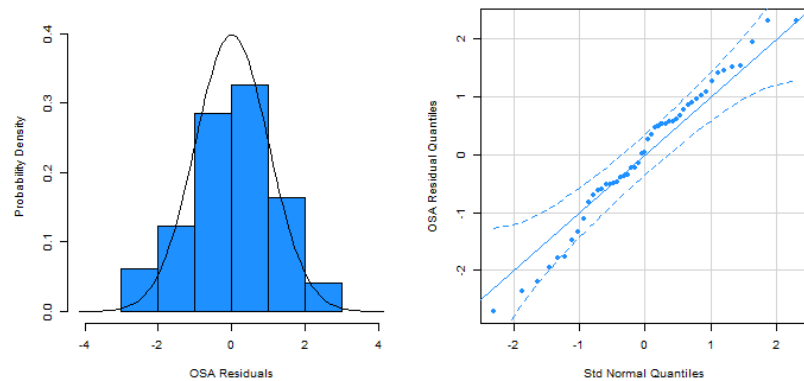
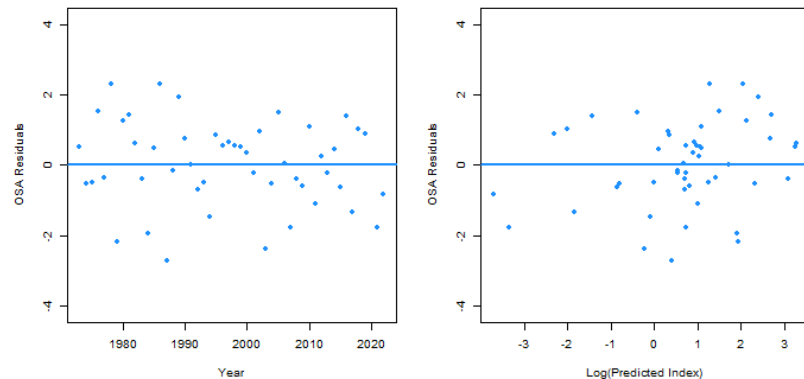
OSA residual diagnostics: Fleet 1



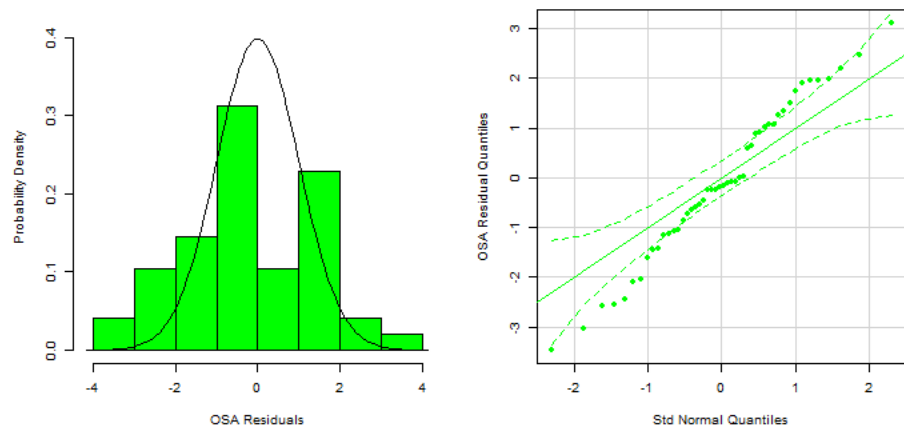
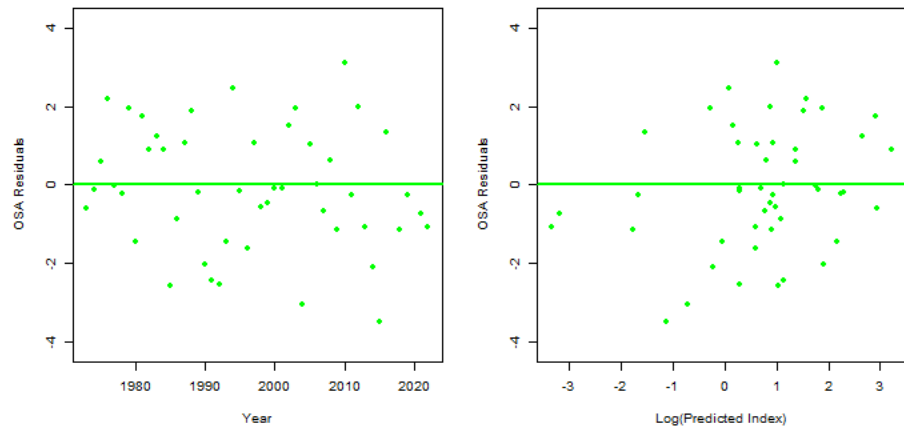
NEFSC Spring



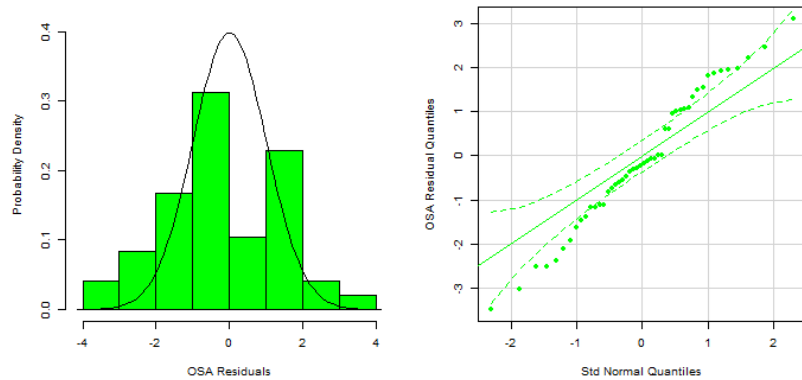
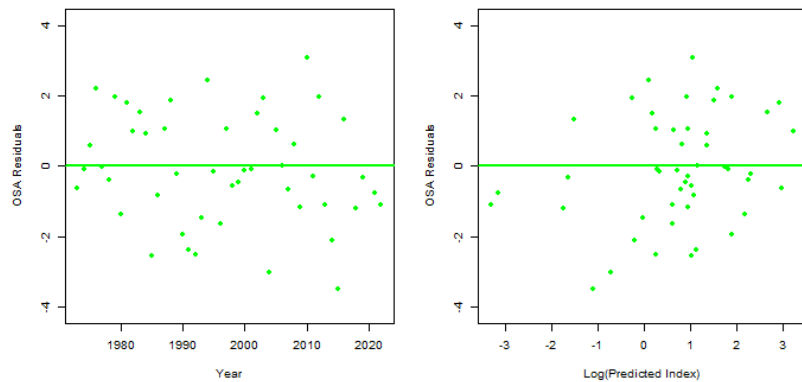
OSA residual diagnostics: Index 1



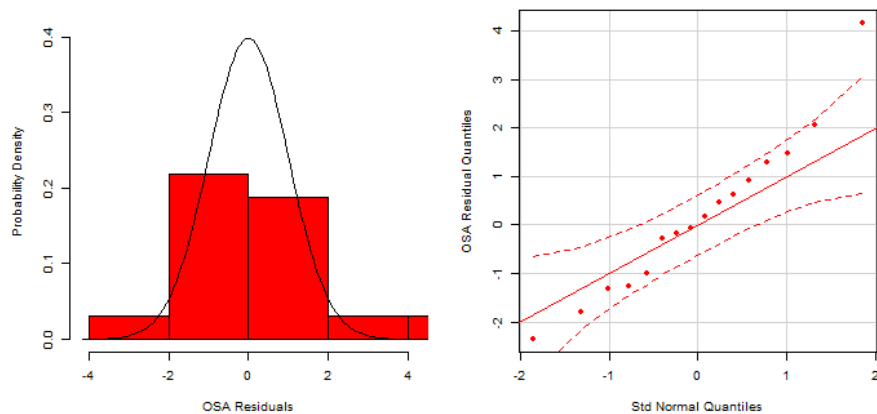
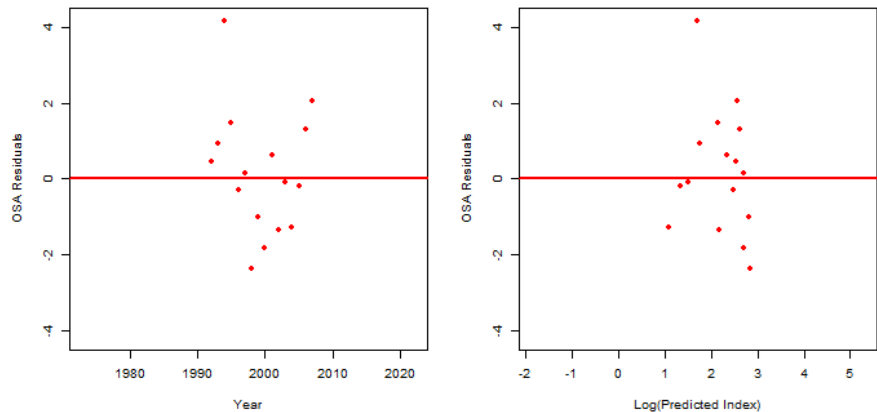
NEFSC Fall



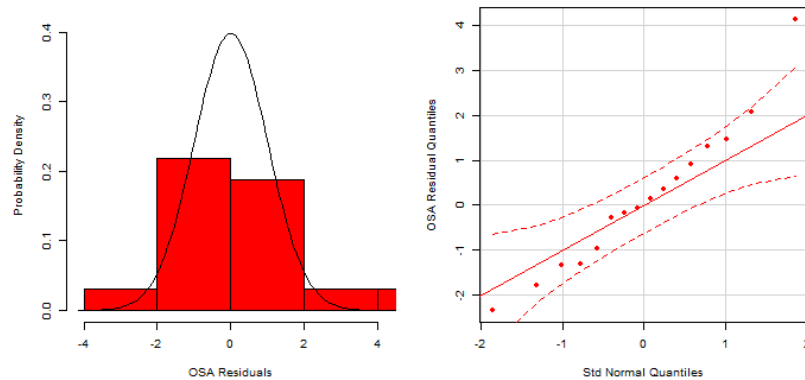
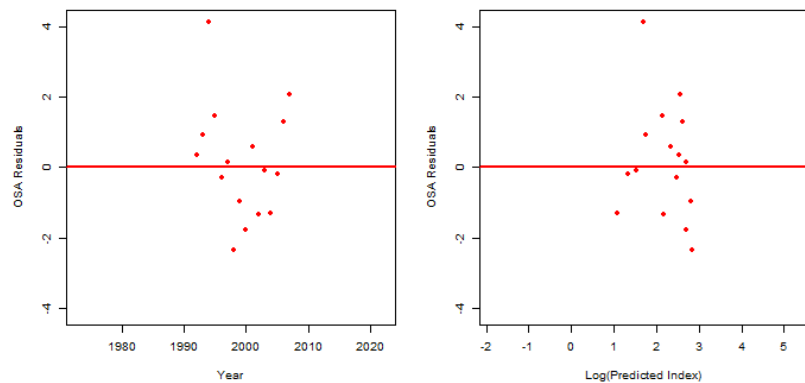
OSA residual diagnostics: Index 2



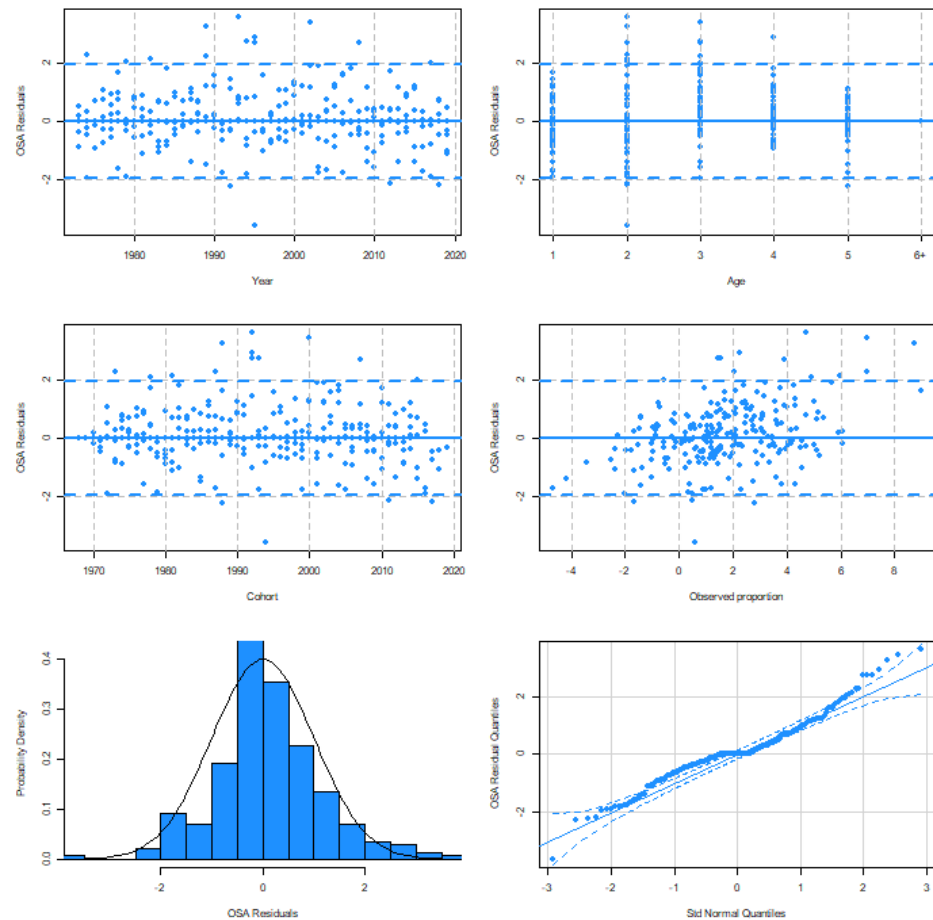
NEFSC Winter



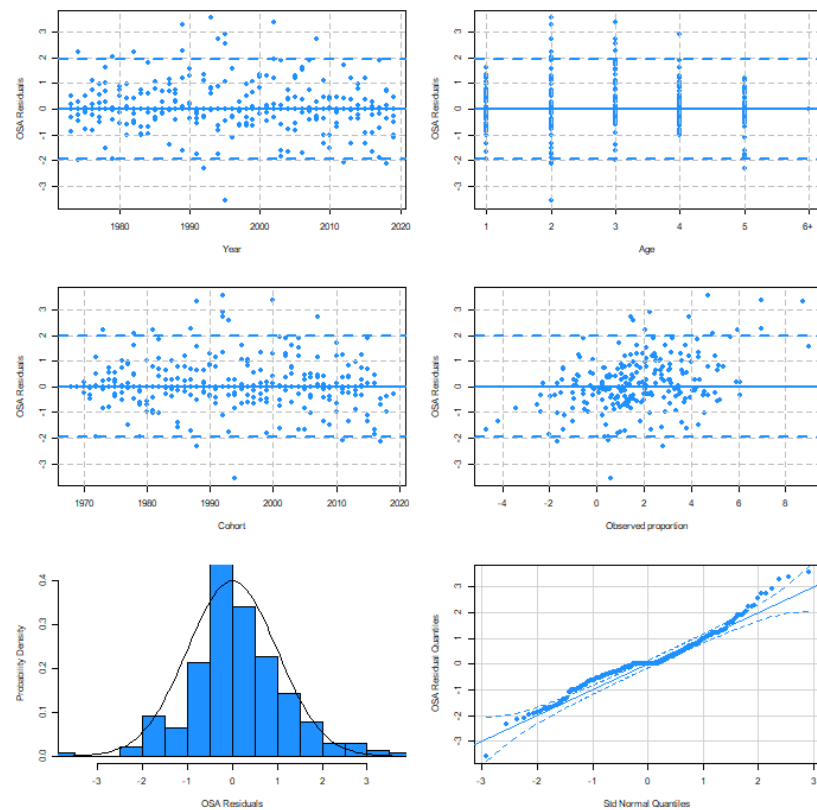
OSA residual diagnostics: Index 3



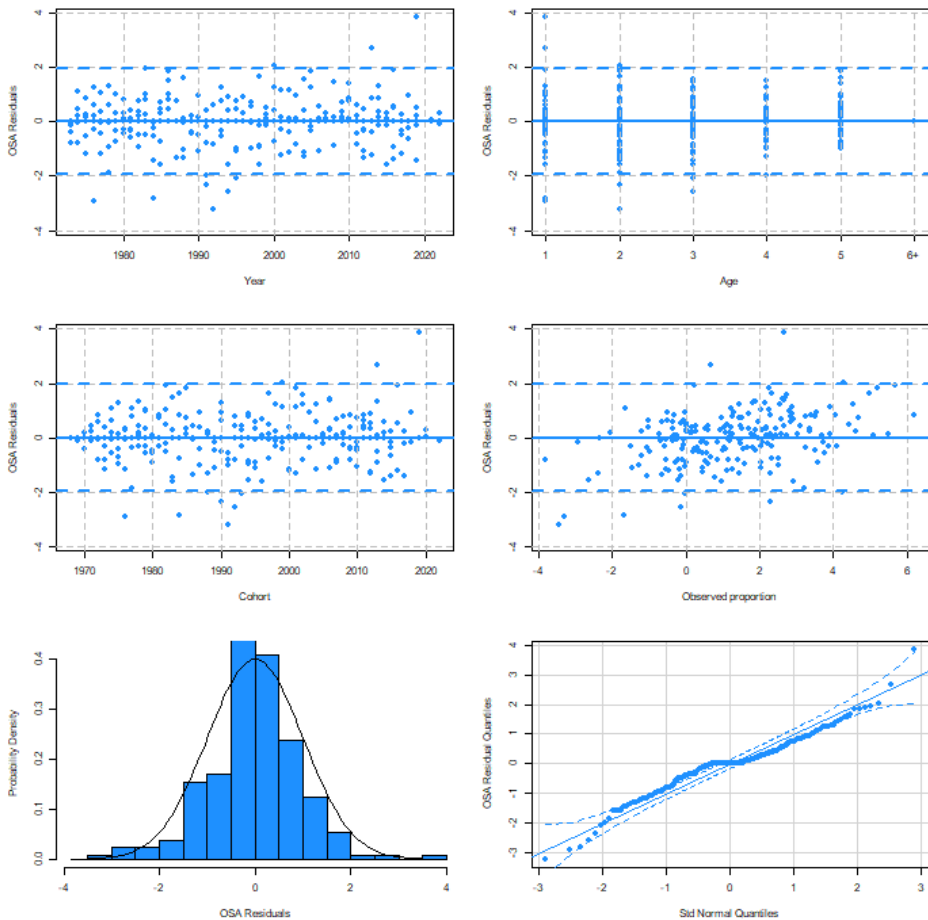
FLEET



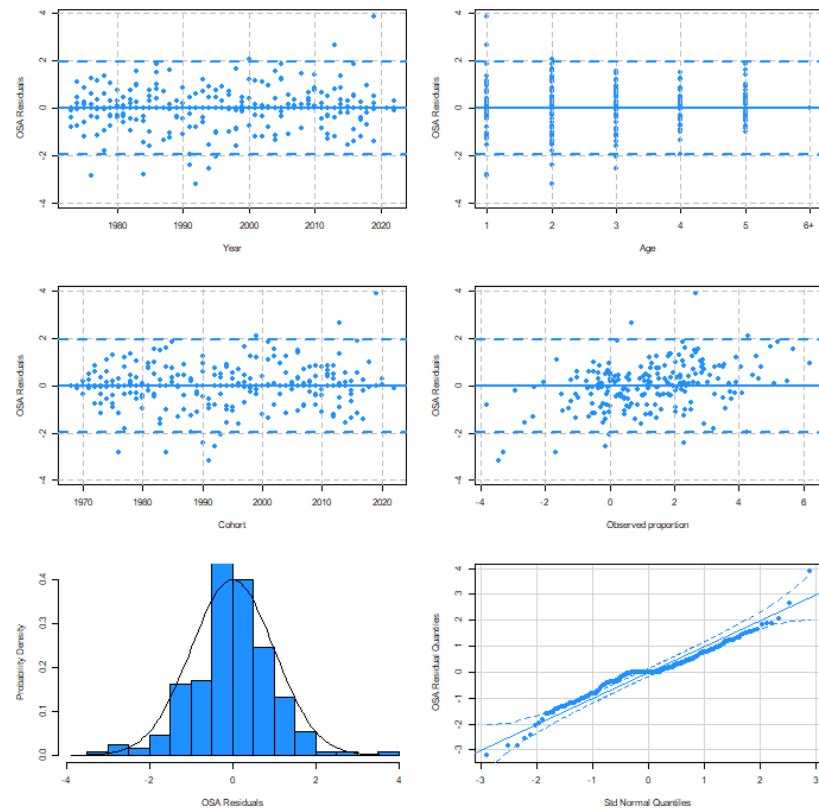
age composition OSA residual diagnostics: Fleet 1



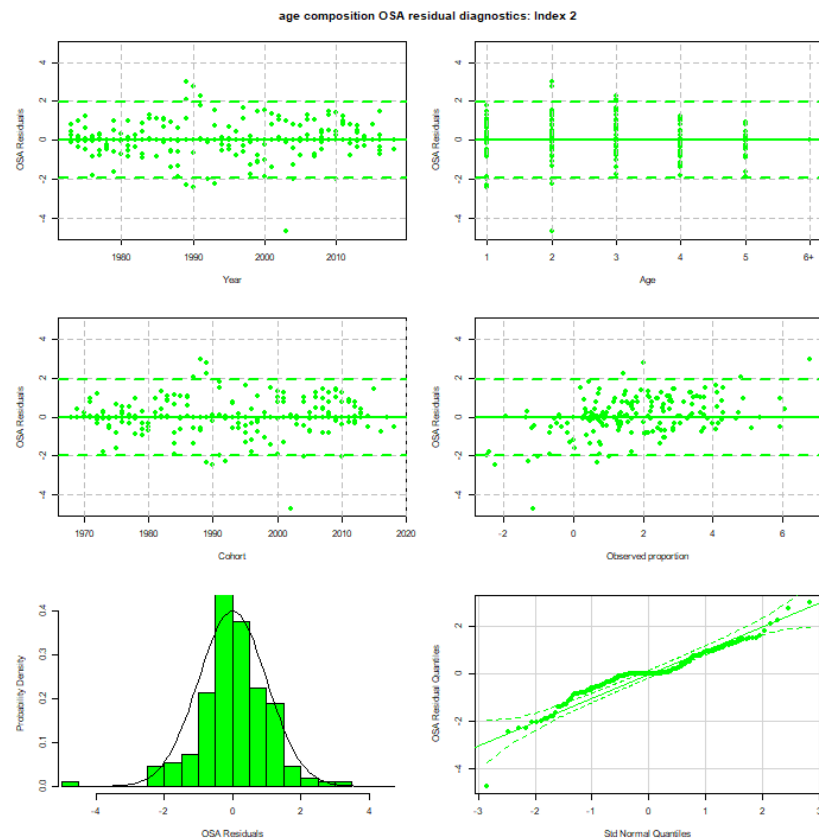
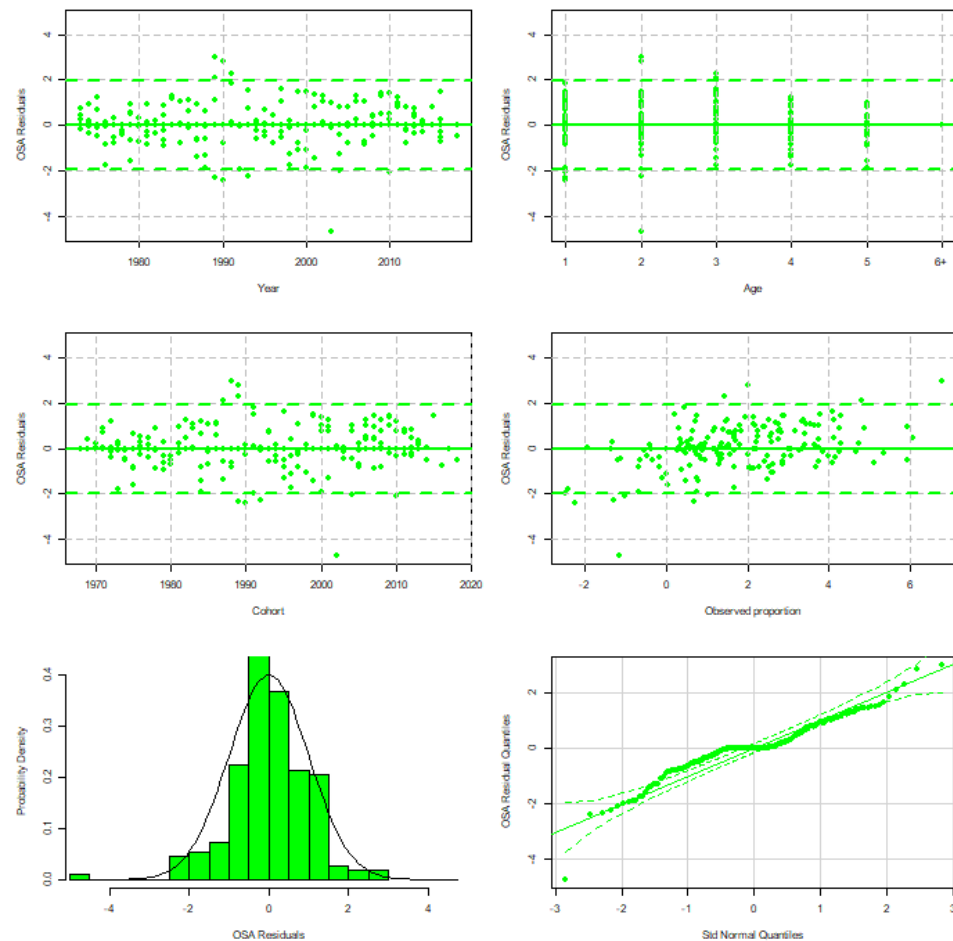
NEFSC Spring



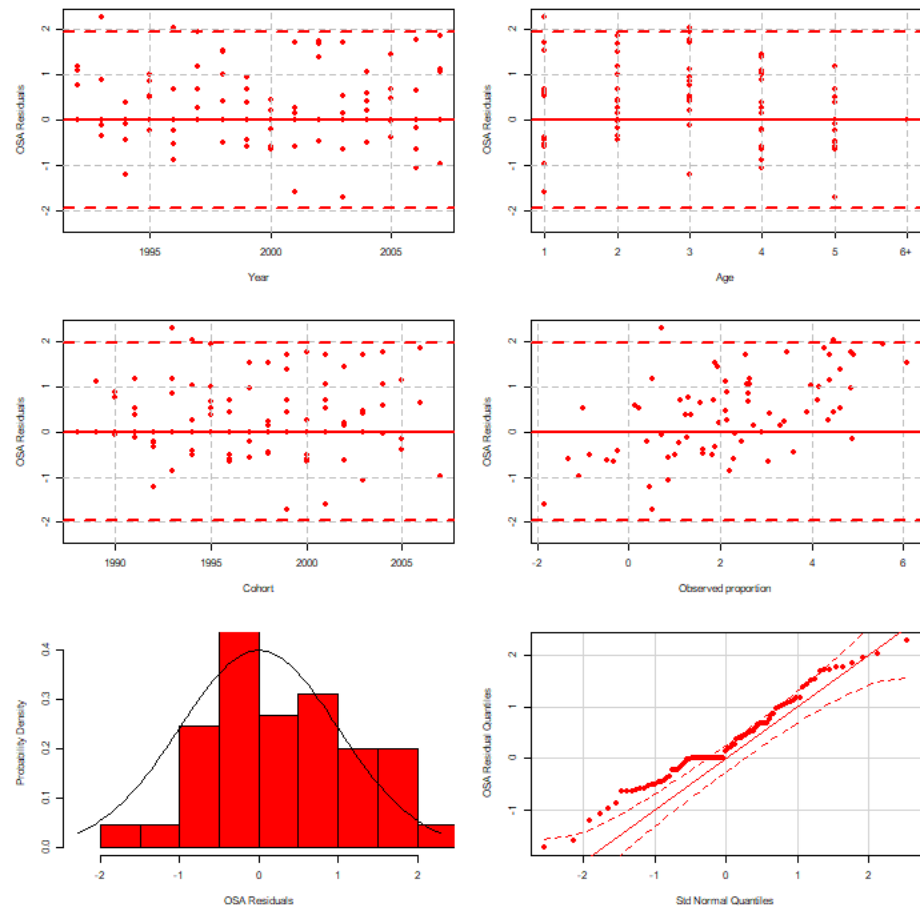
age composition OSA residual diagnostics: Index 1



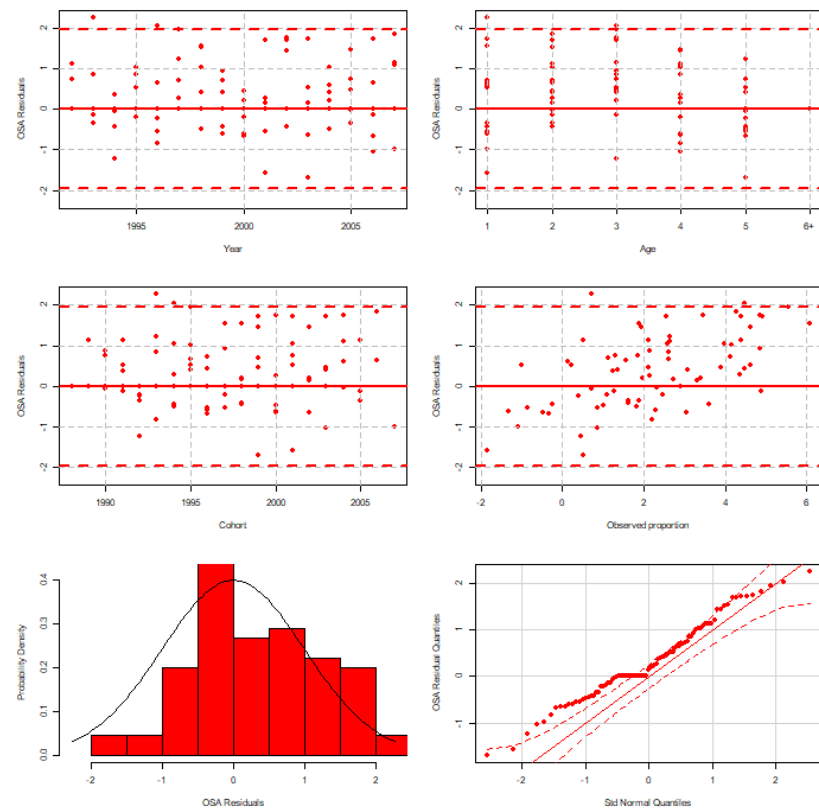
NEFSC Fall

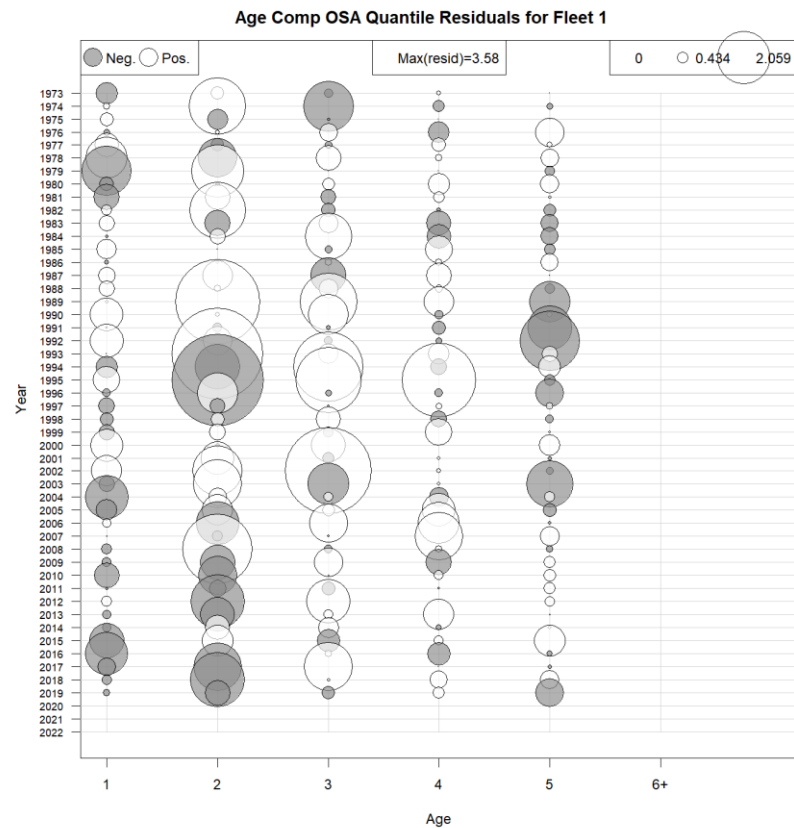
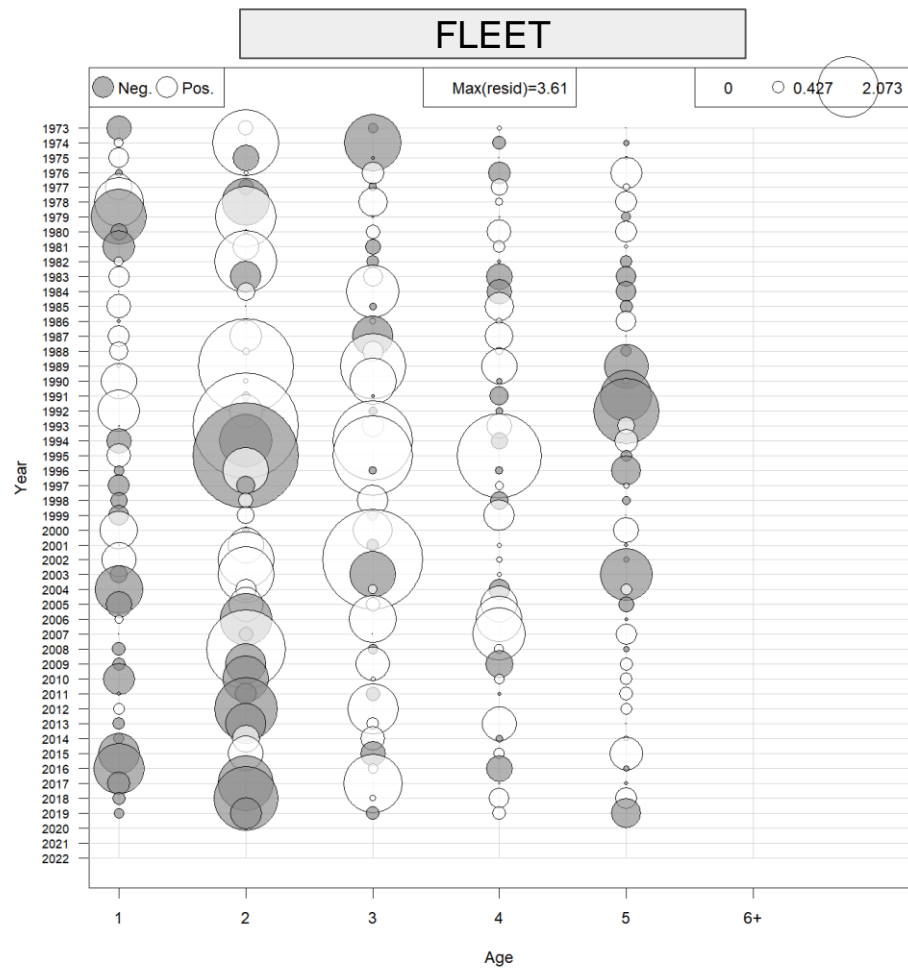


NEFSC Winter

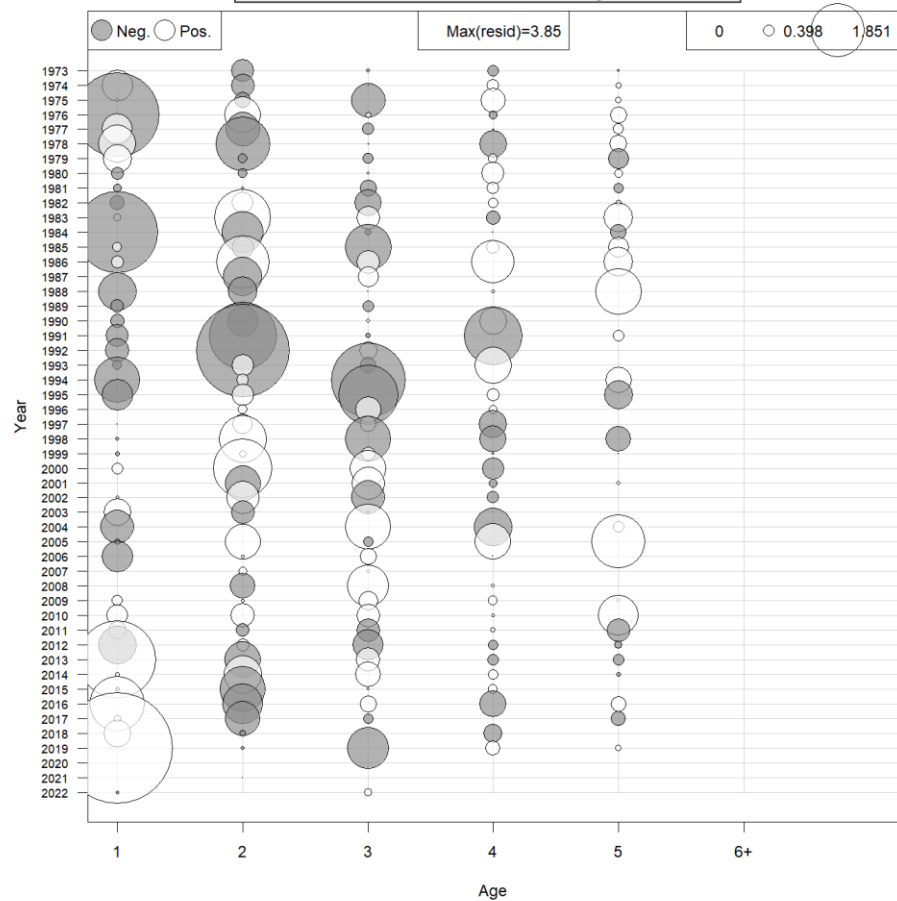


age composition OSA residual diagnostics: Index 3

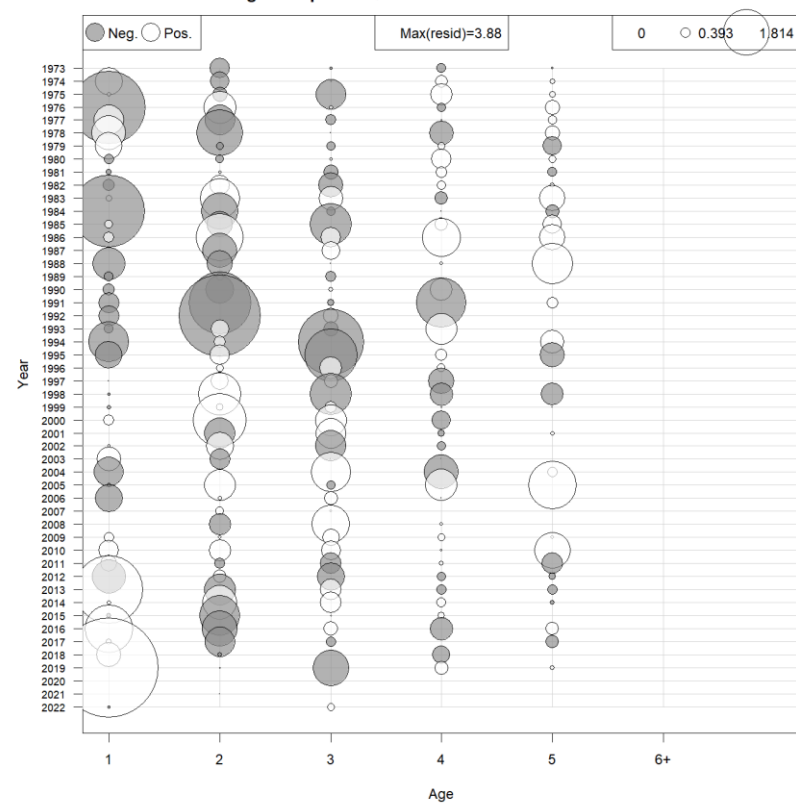




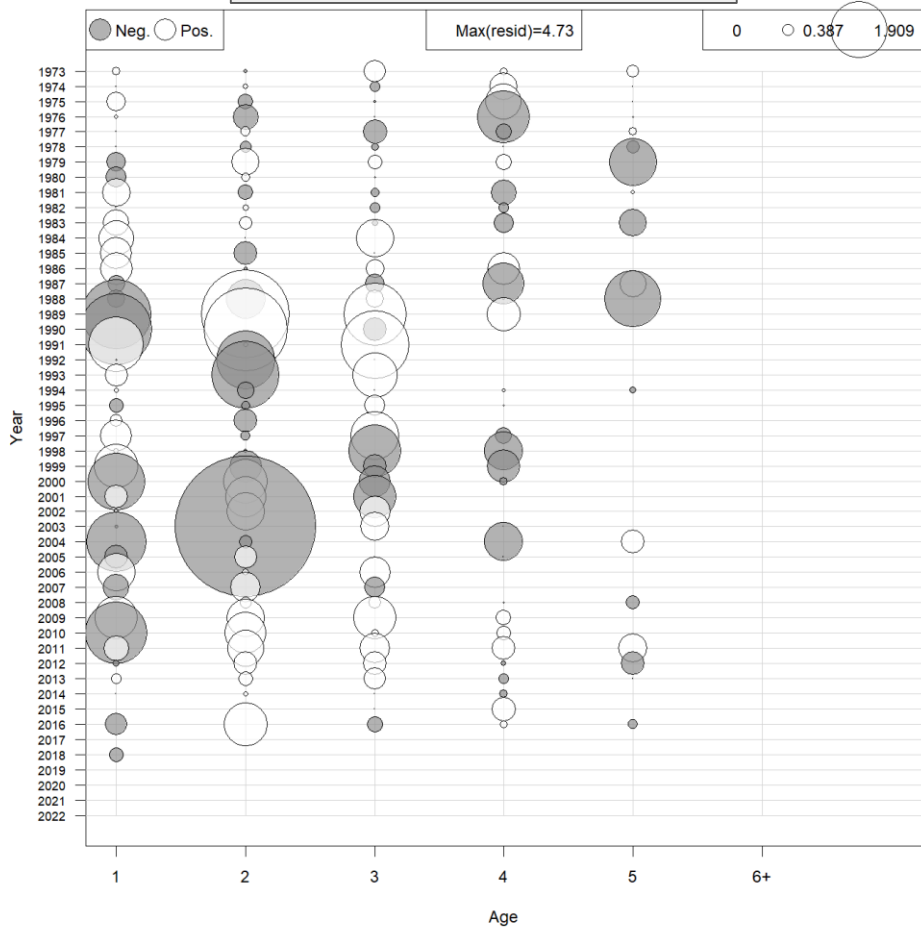
NEFSC Spring



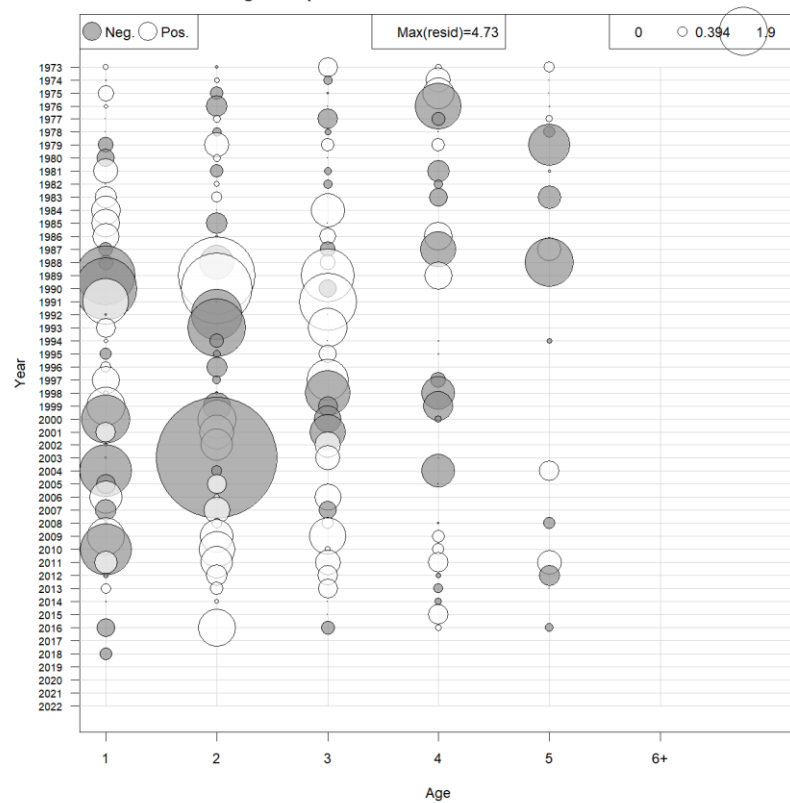
Age Comp OSA Quantile Residuals for Index 1



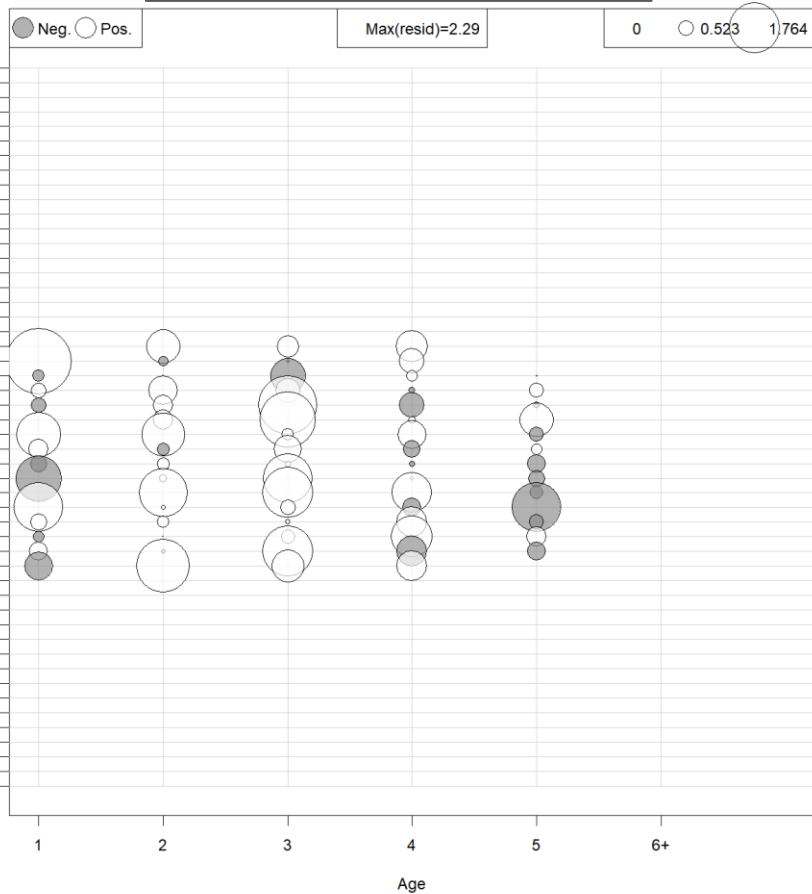
NEFSC Fall



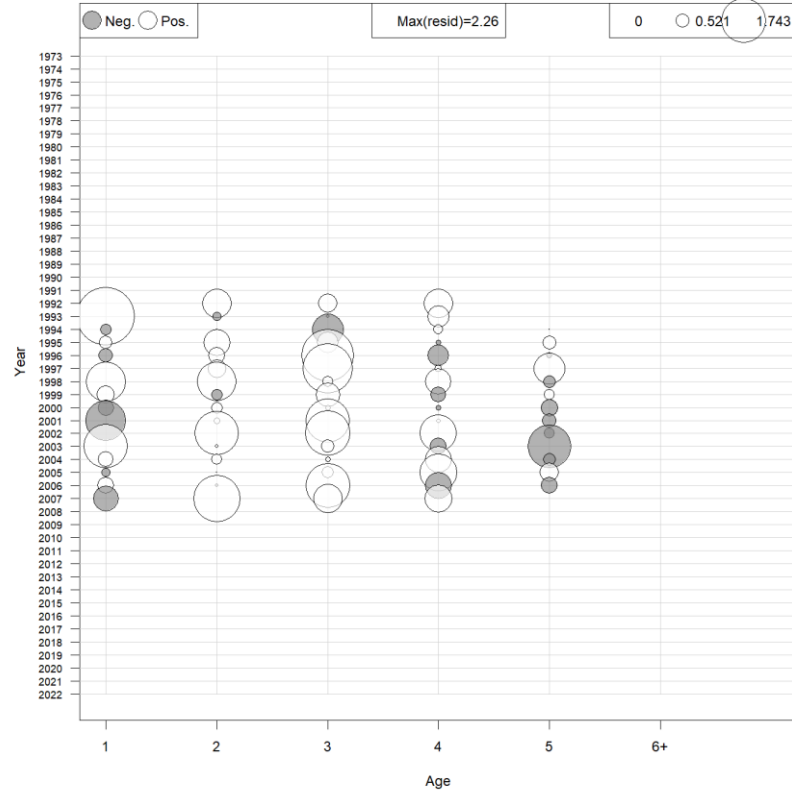
Age Comp OSA Quantile Residuals for Index 2



NEFSC Winter

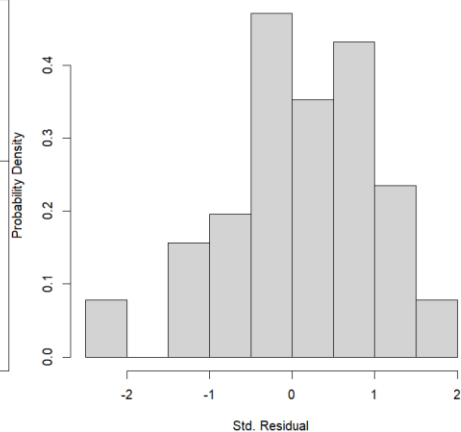
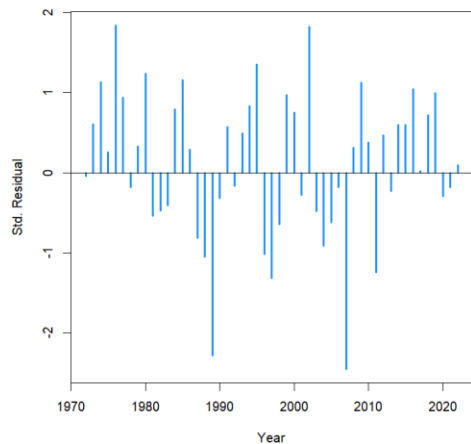
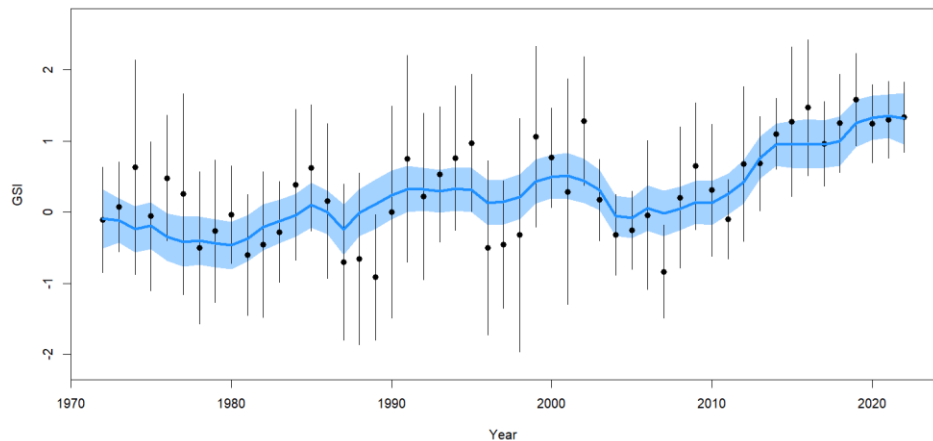


Age Comp OSA Quantile Residuals for Index 3



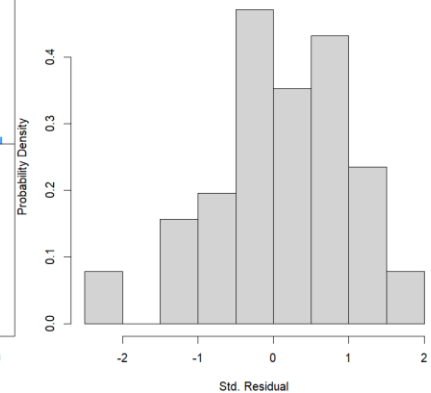
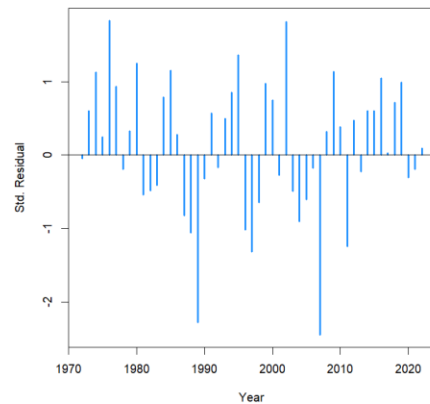
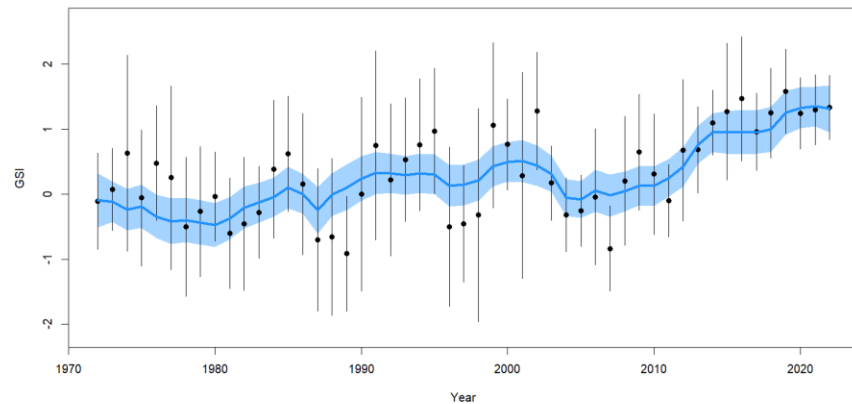
Candidate Model

Ecov 1: GSI

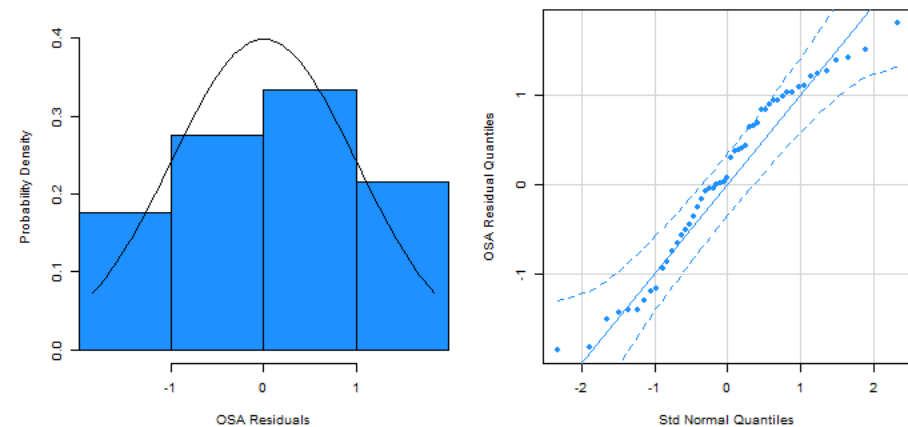
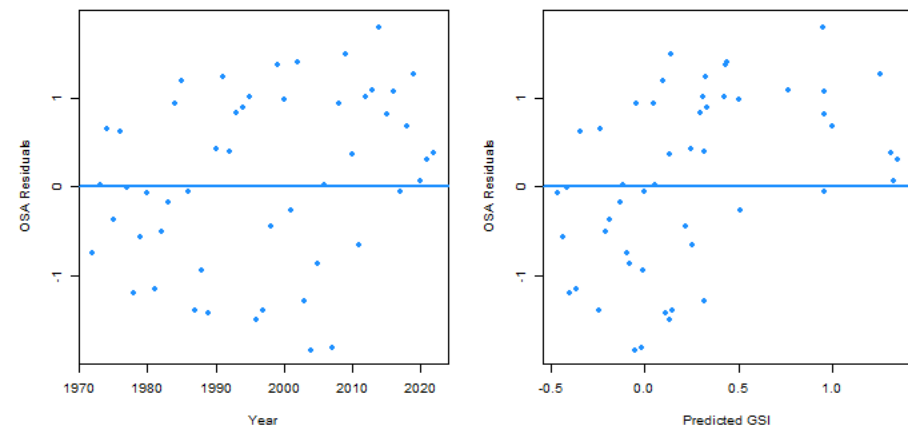


Age-specific M

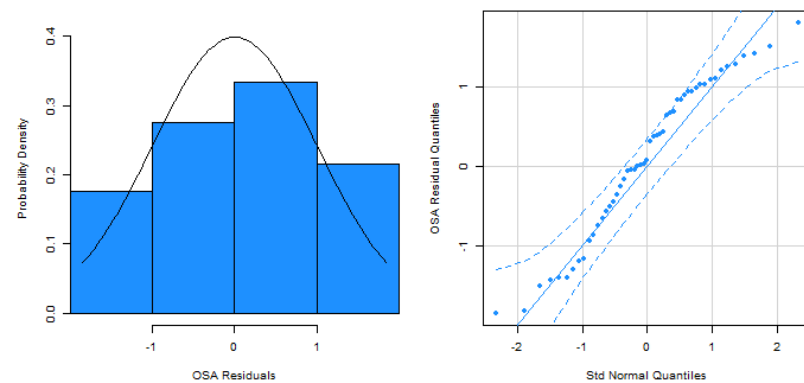
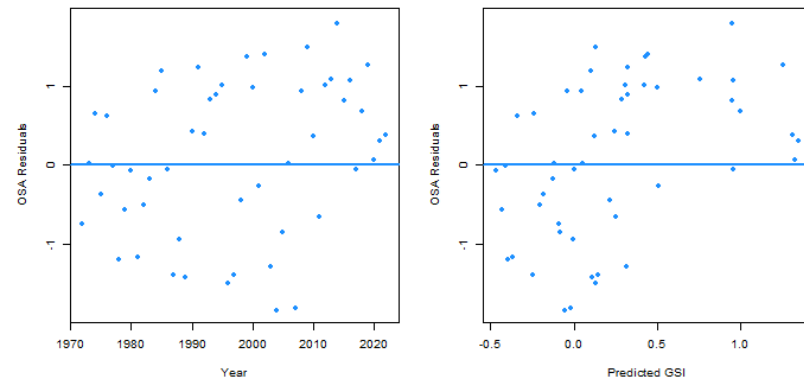
Ecov 1: GSI



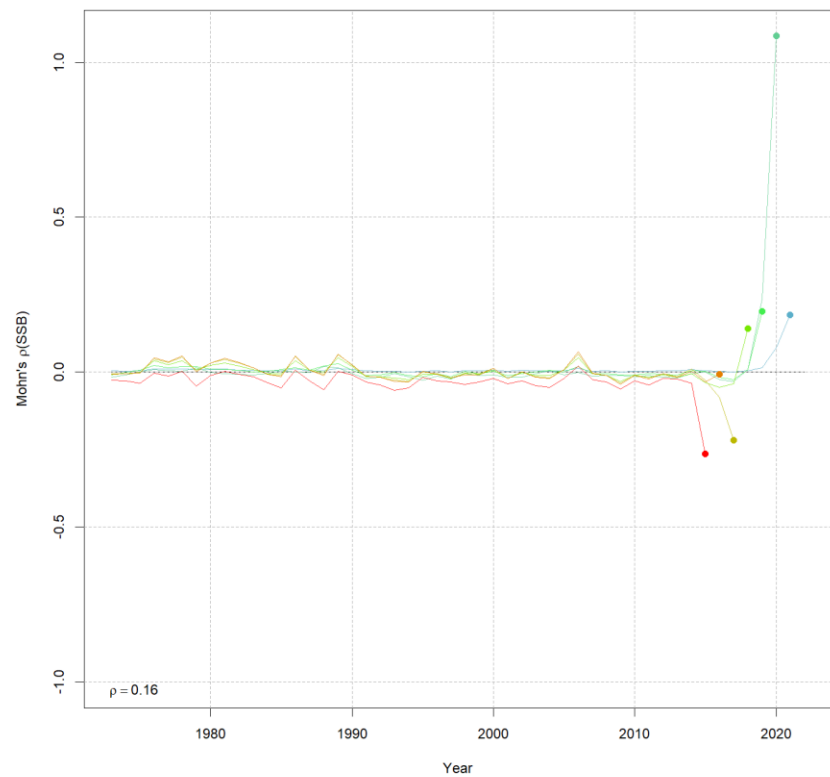
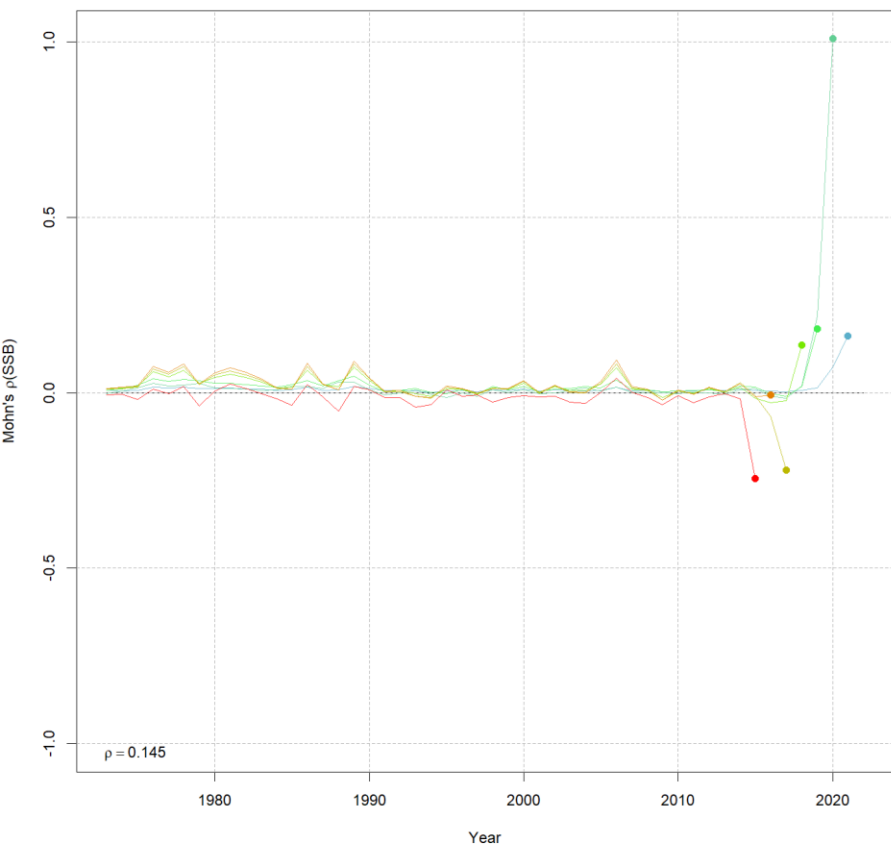
OSA residual diagnostics: Ecov 1 (GSI)



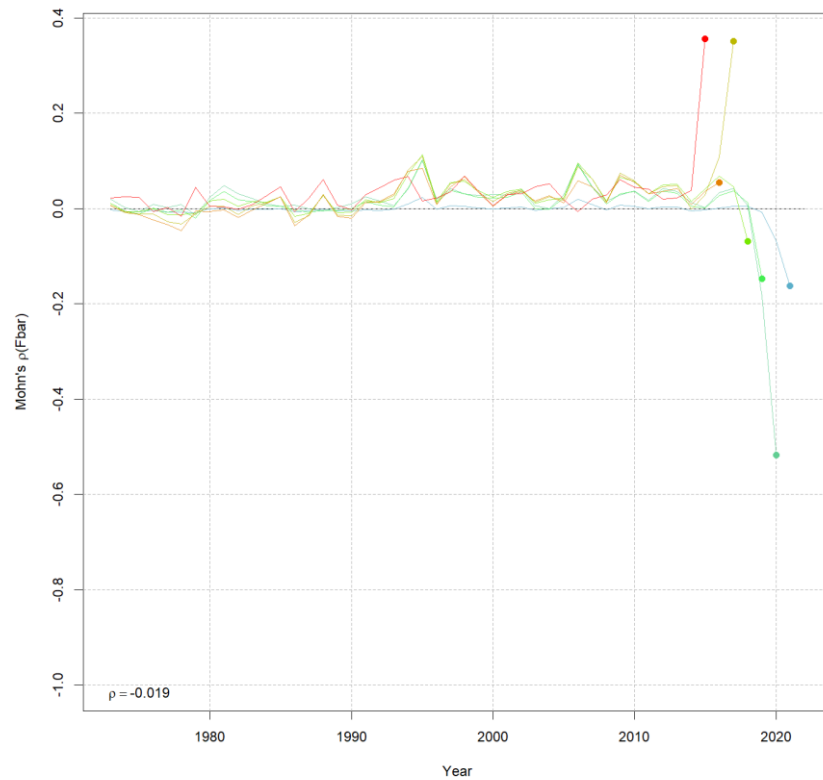
OSA residual diagnostics: Ecov 1 (GSI)

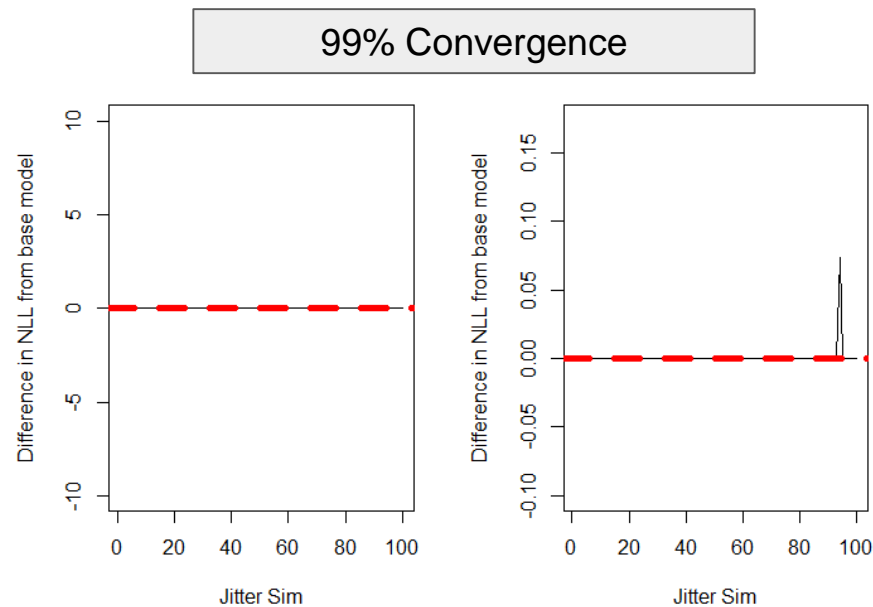
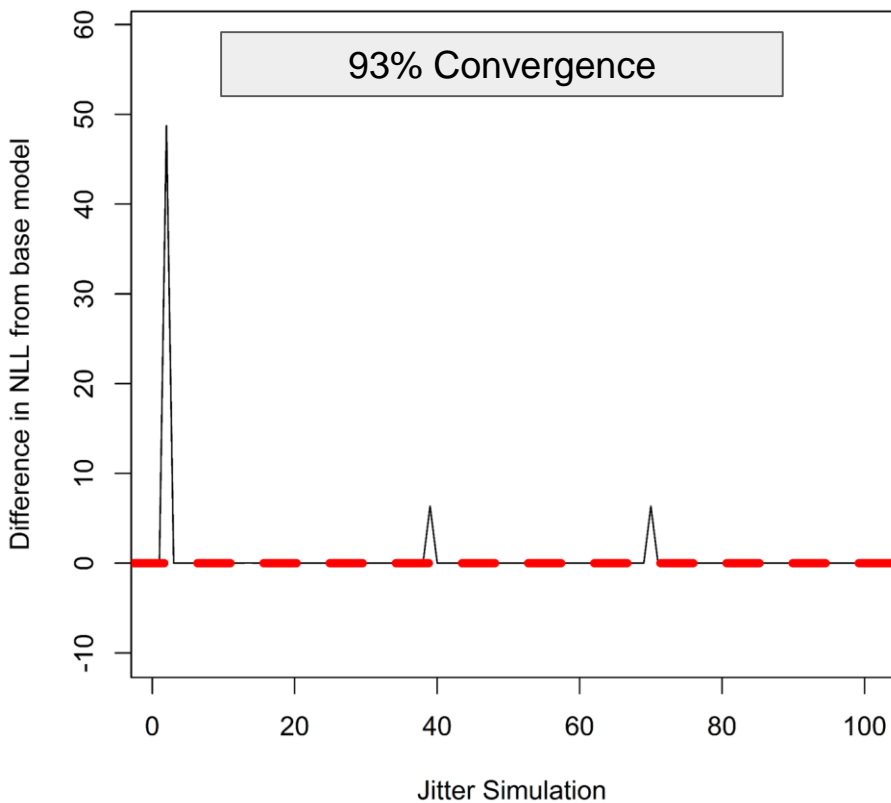


SSB



F

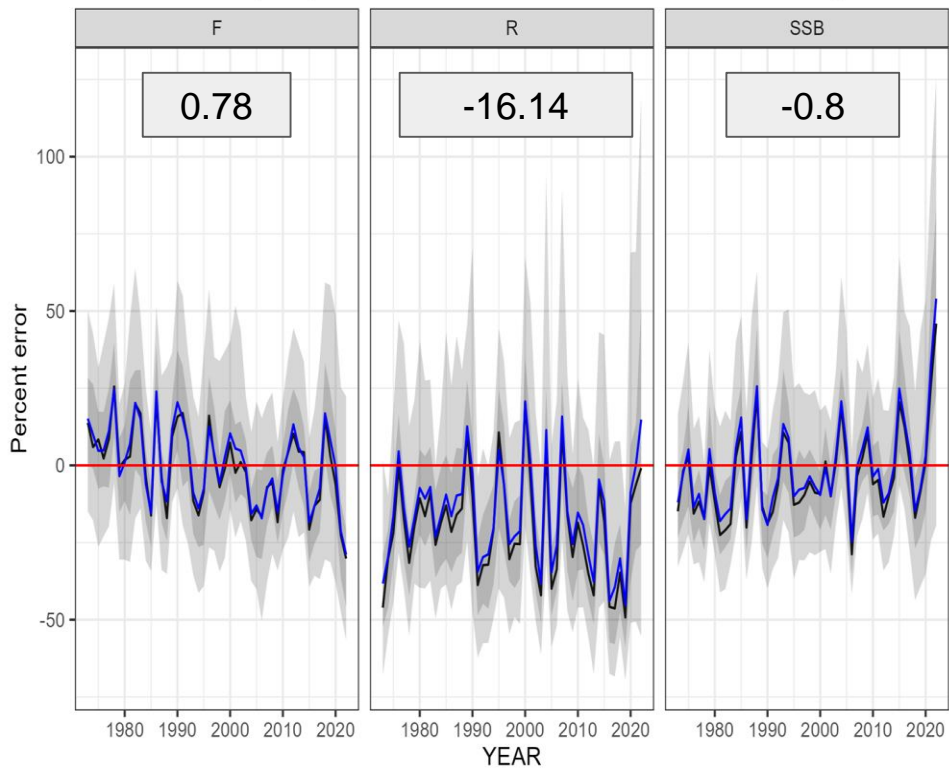




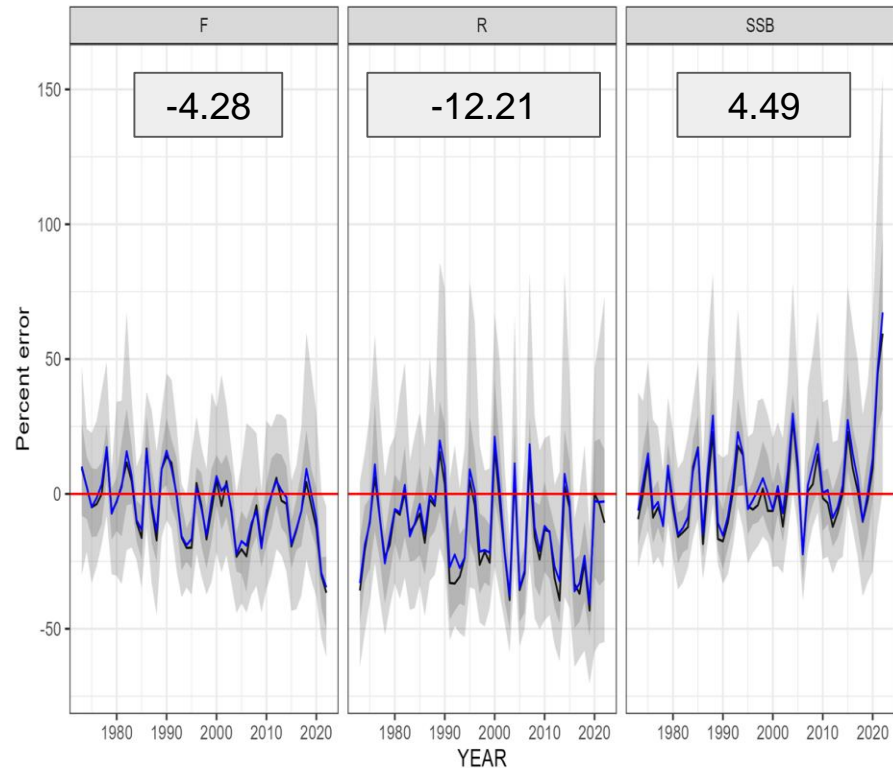
Candidate Model

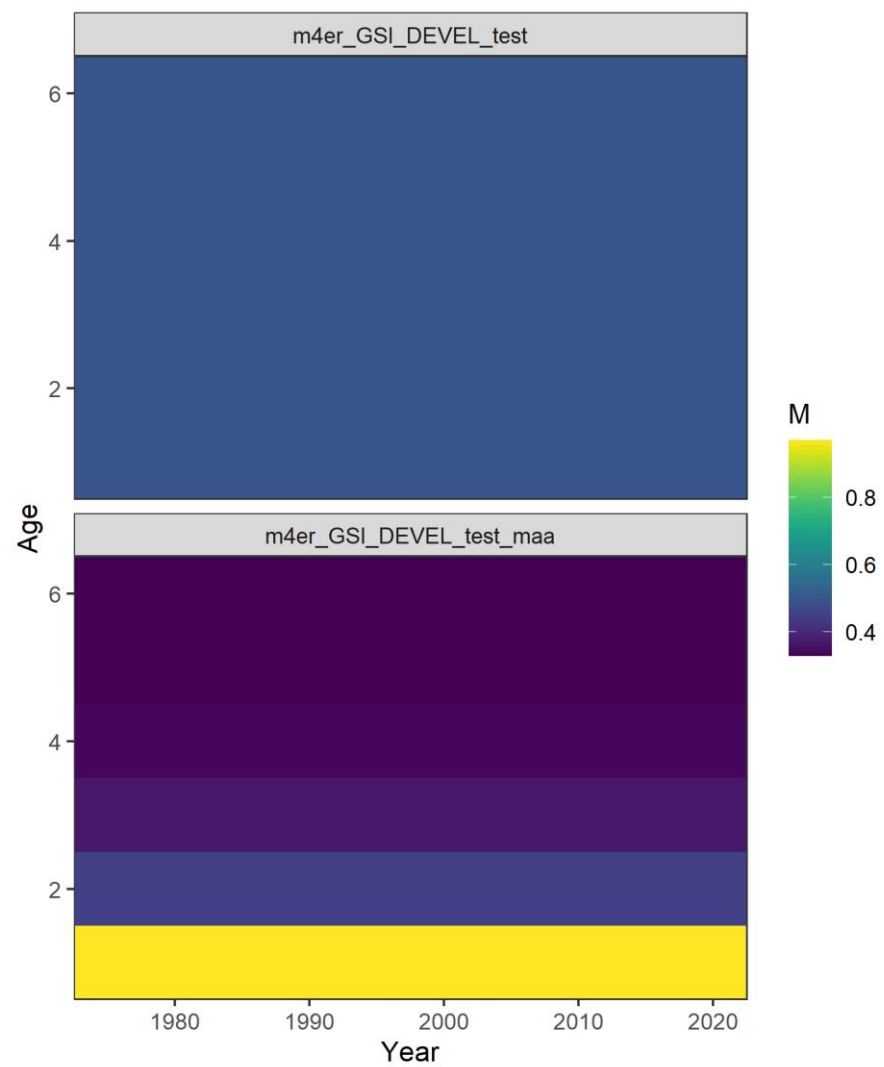
Age-specific M

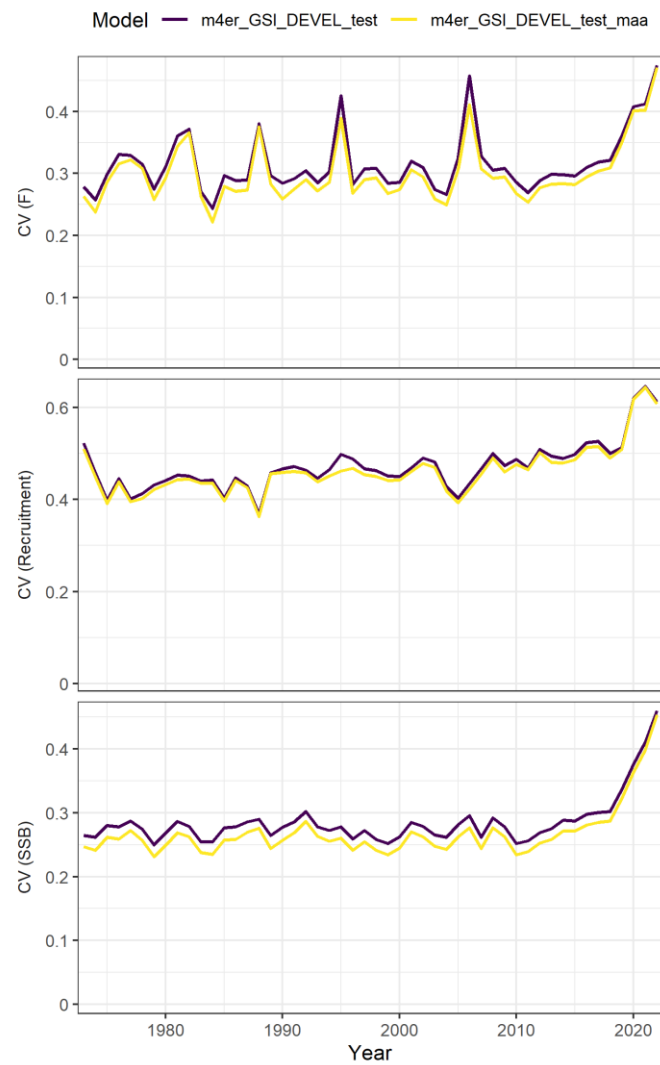
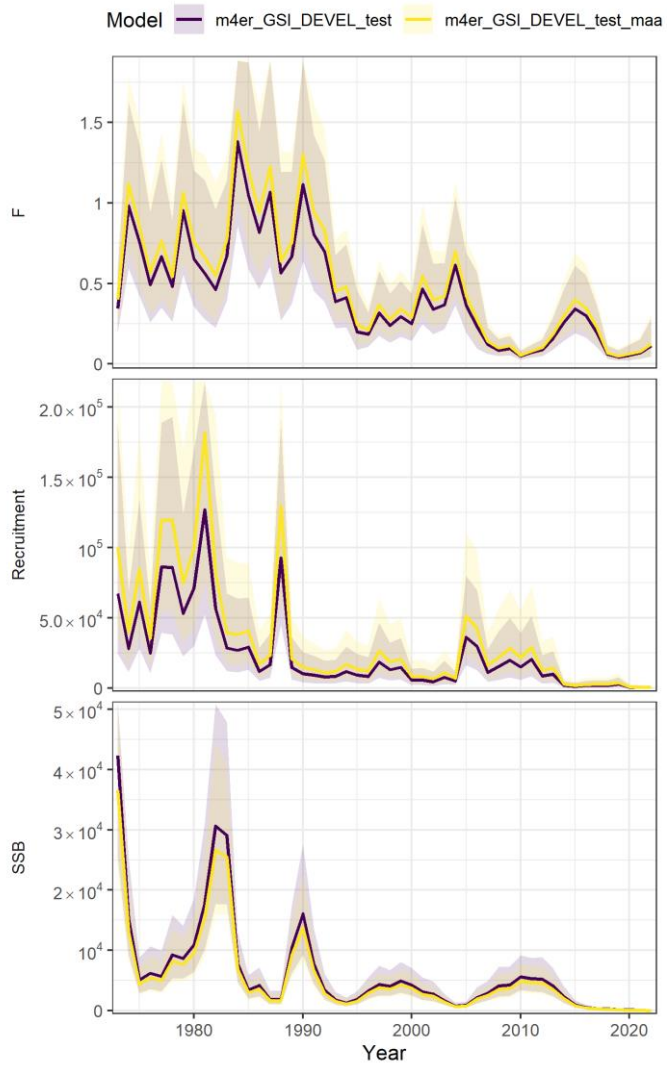
Self-test mean (blue) and median bias with 5%, 25%, 75%, 95% quantiles

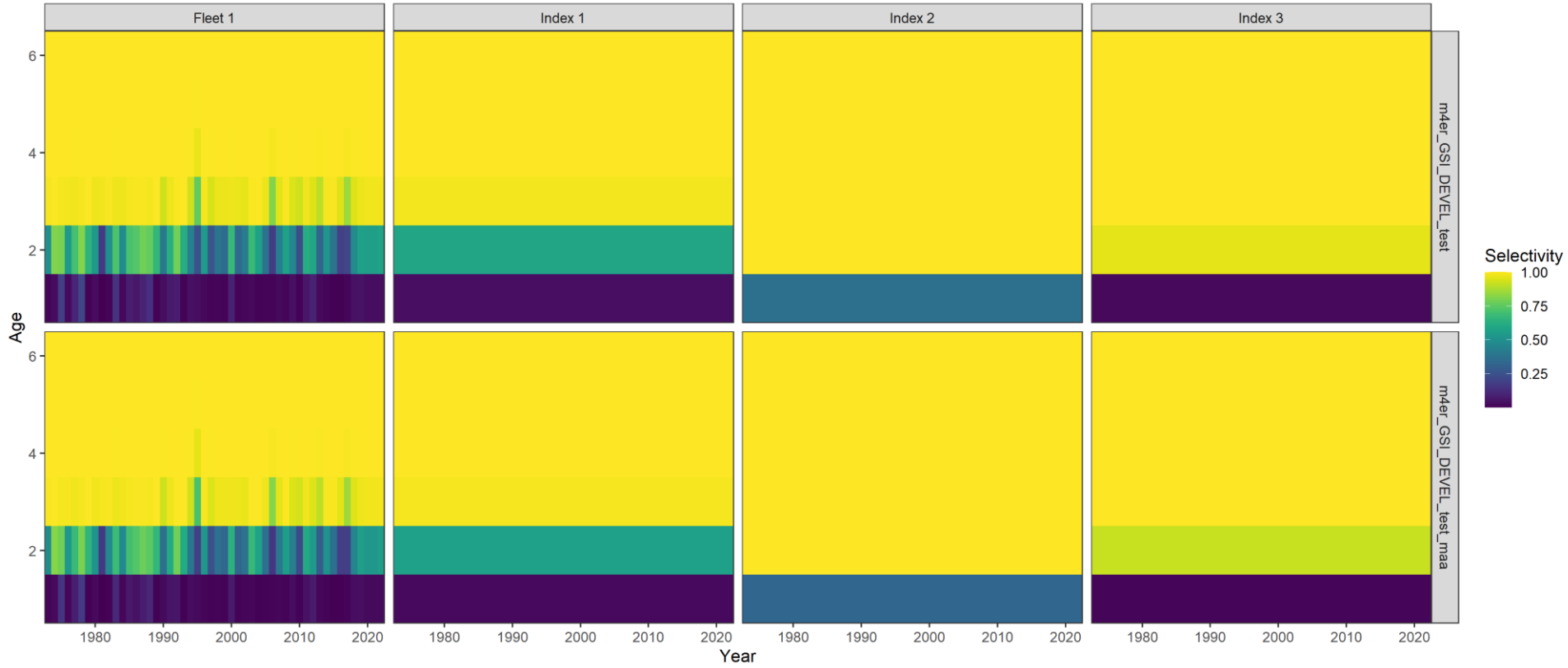


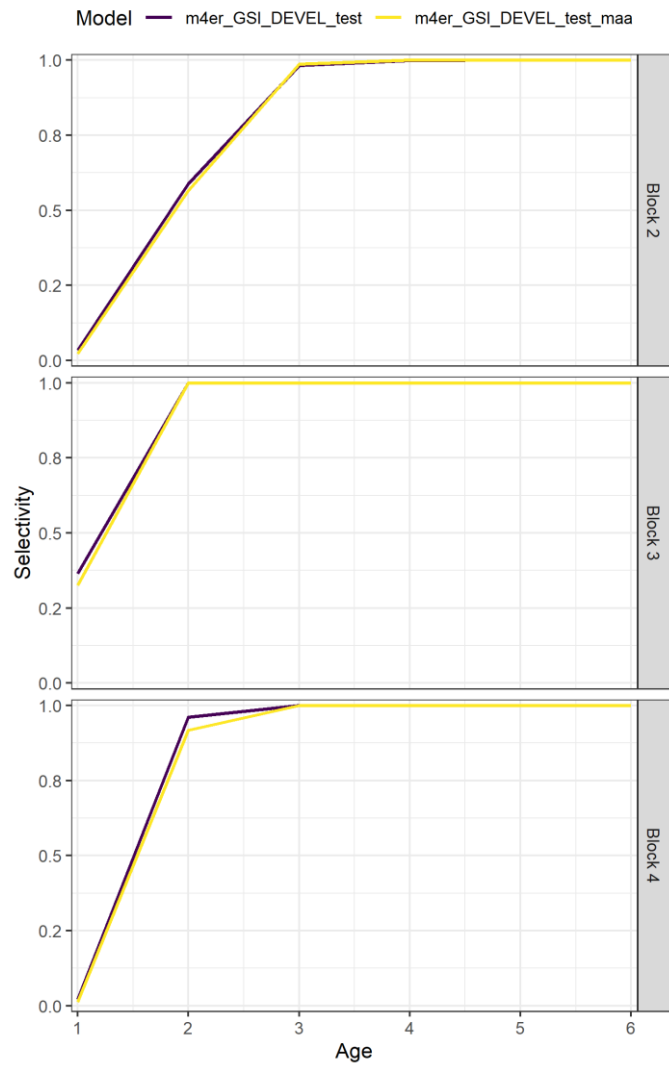
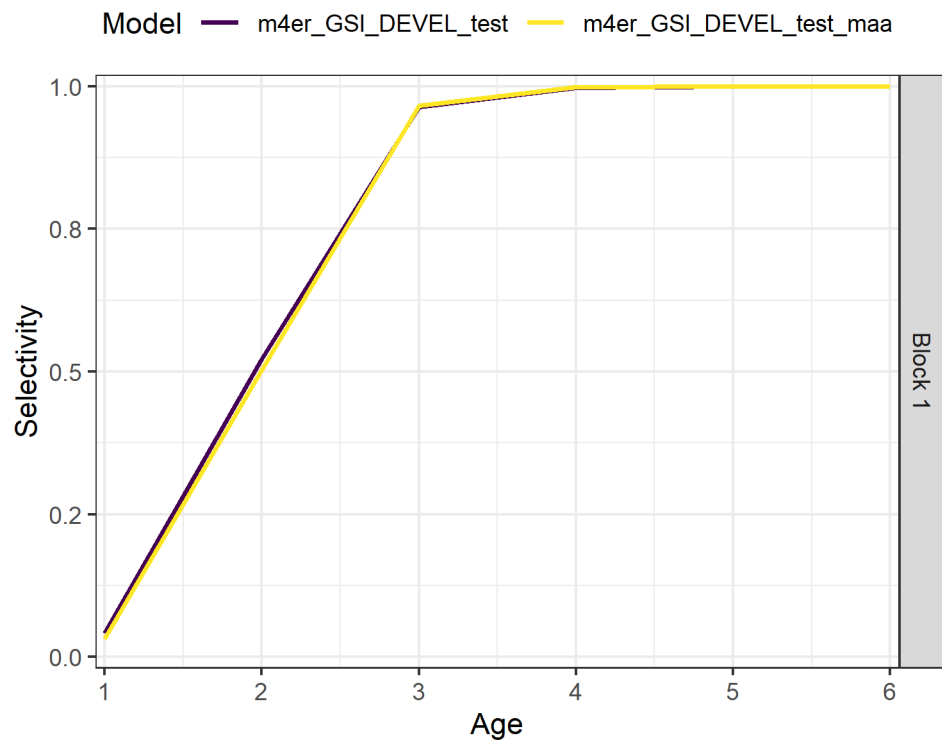
Self-test mean (blue) and median bias with 5%, 25%, 75%, 95% quantiles

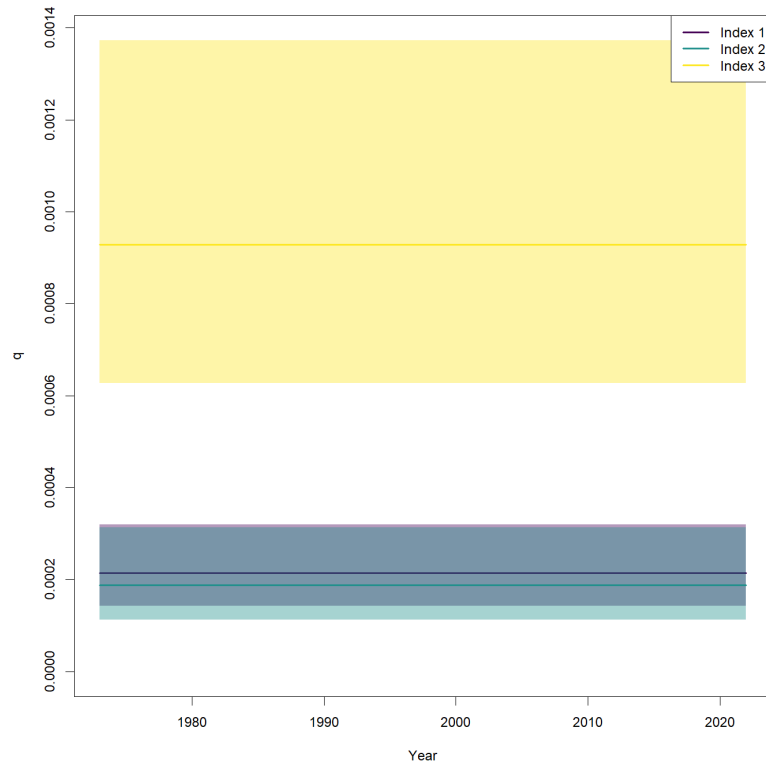
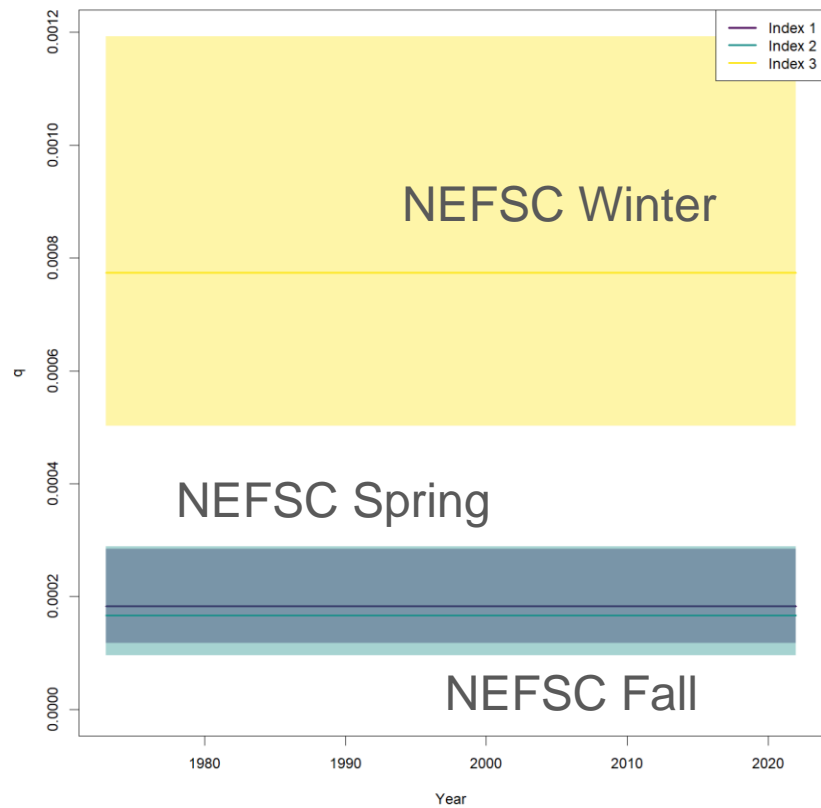




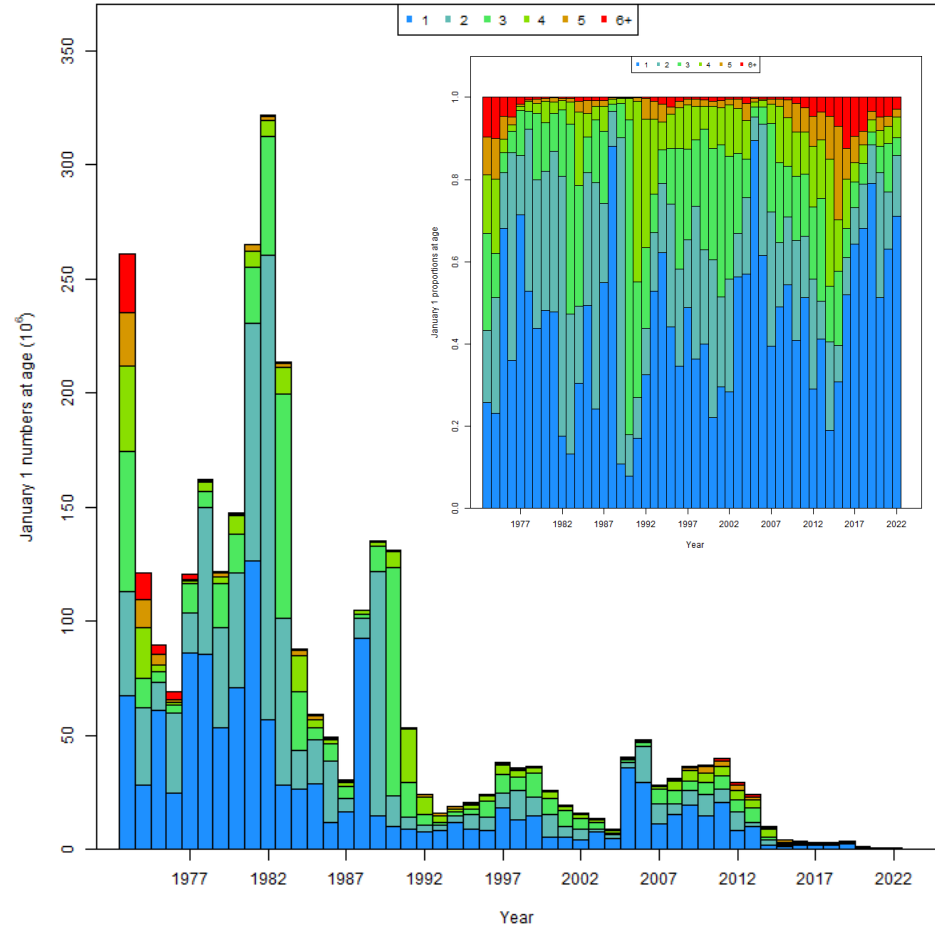




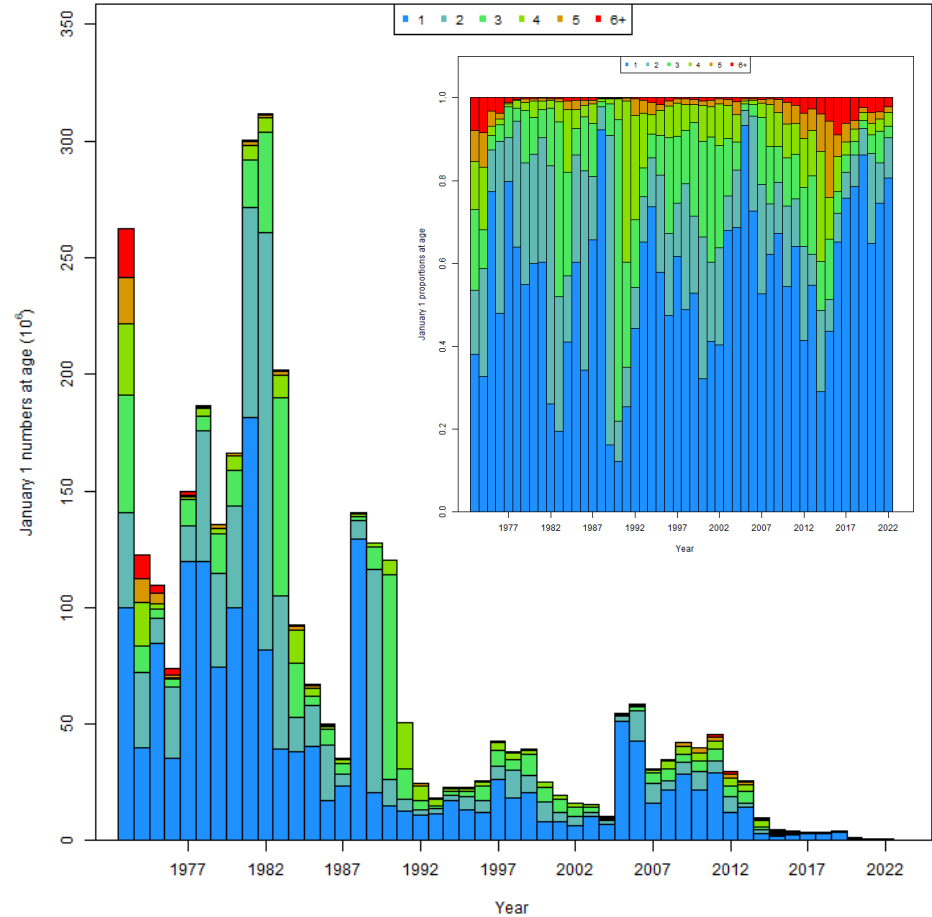




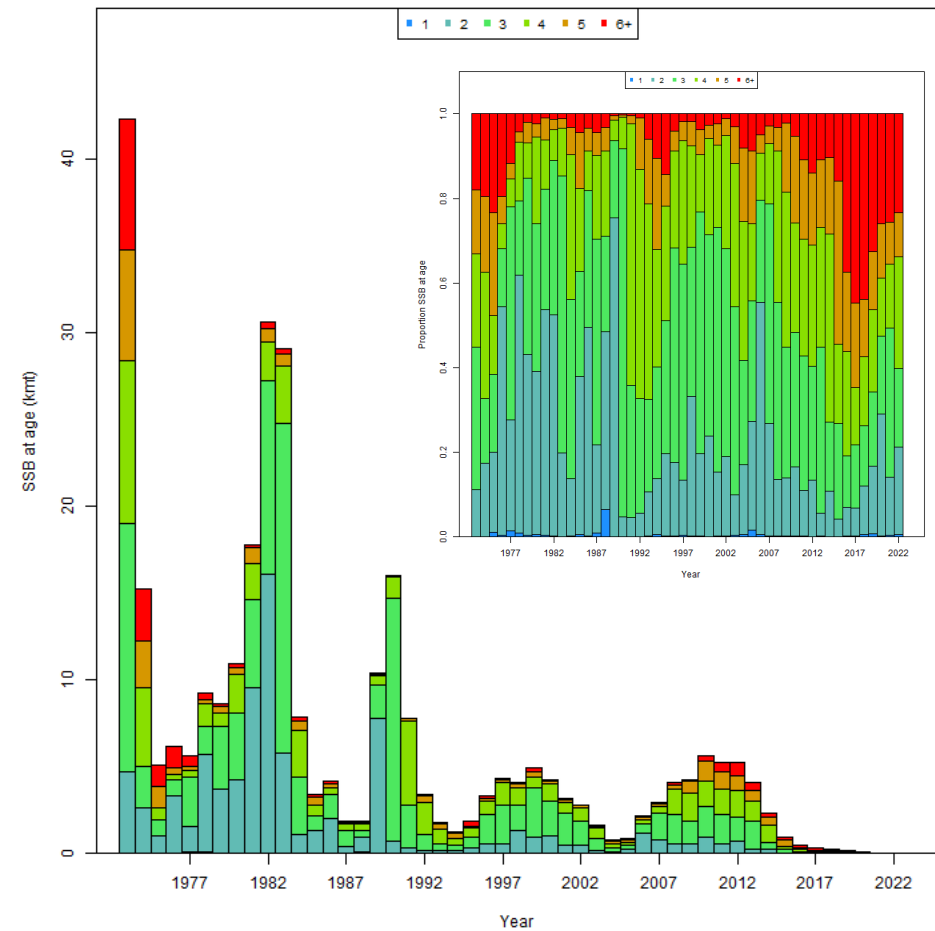
Candidate Model



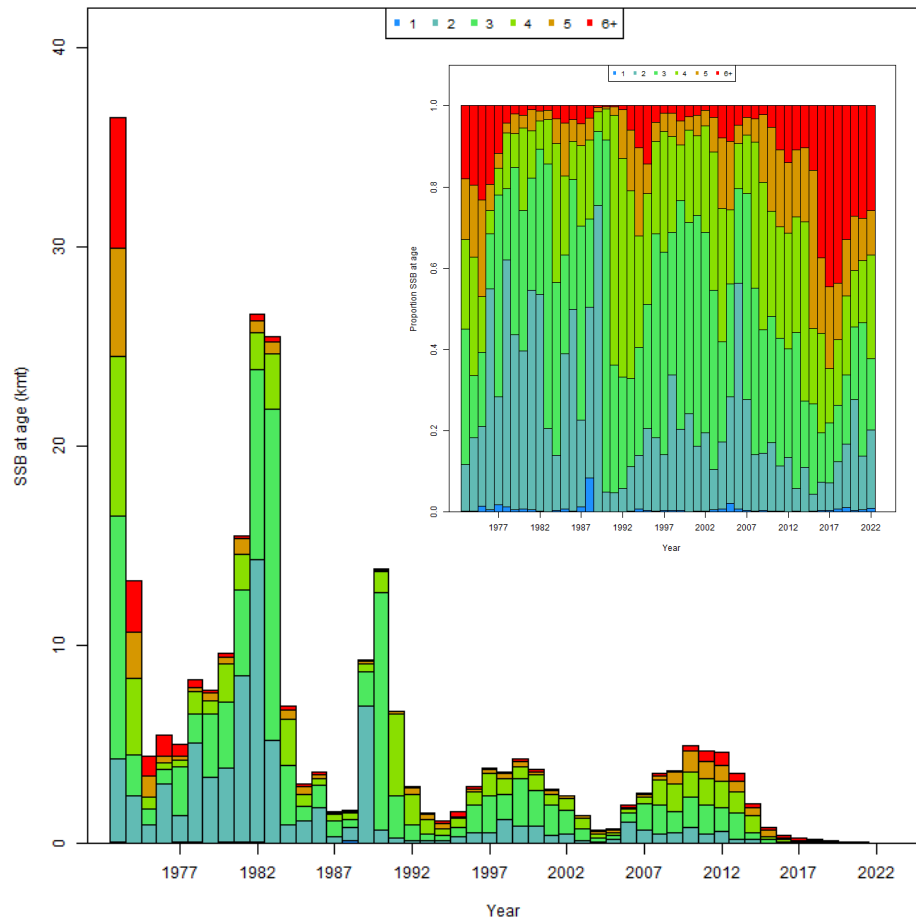
Age-specific M



Candidate Model

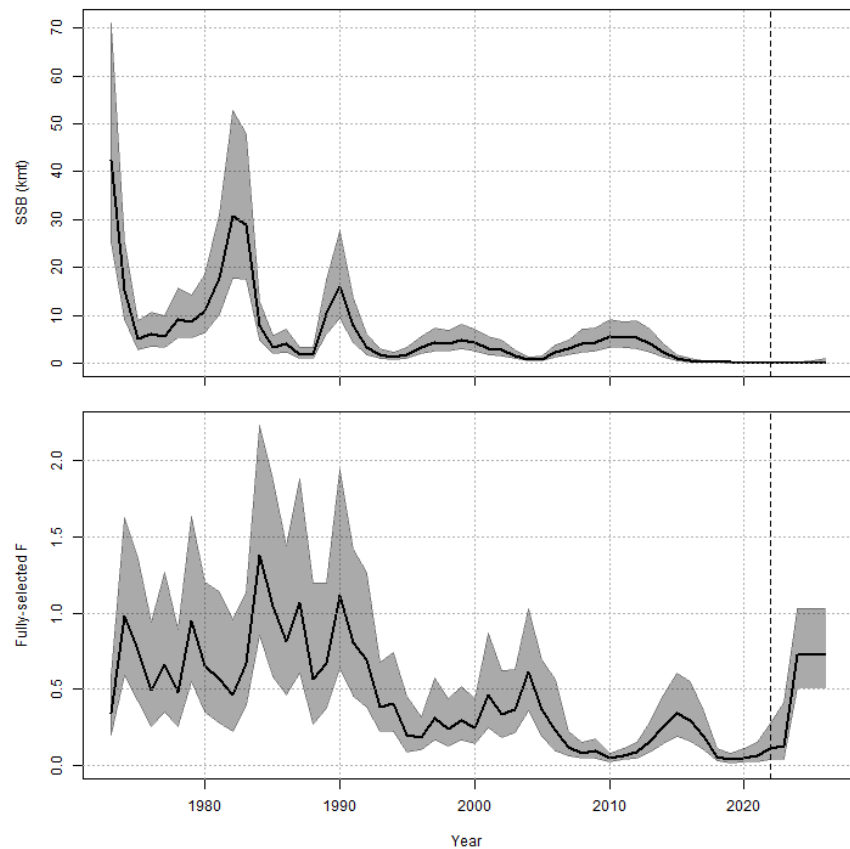


Age-specific M

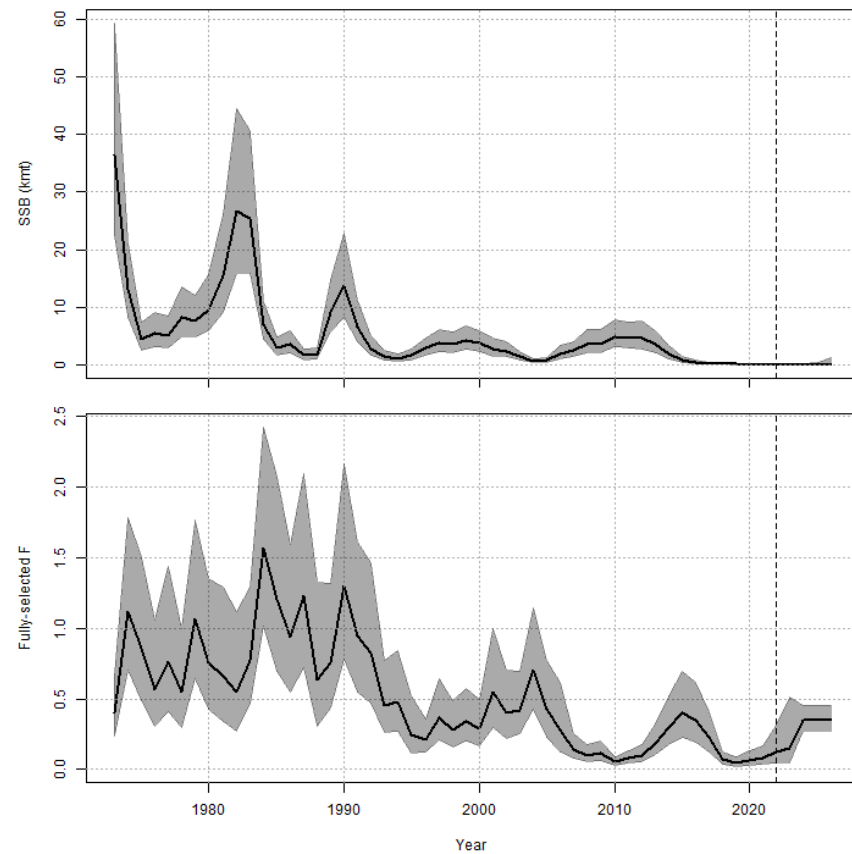


	F40%	SSB40%	MSY Proxy
Candidate Model	0.73 (0.44 - 1.12)	126 mt (8 - 1965)*	97 mt (51 - 182)*
Age-Specific M	0.36 (0.30 - 0.43)	191 mt (11 - 3345)*	70 mt (4 - 1157)*

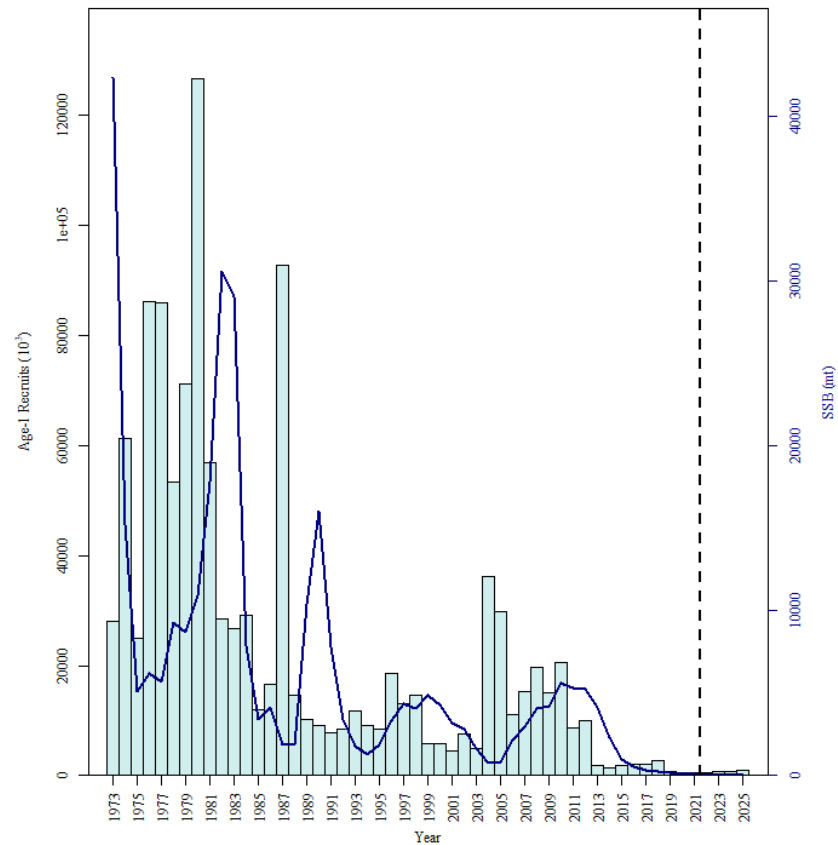
Candidate Model



Age-specific M



Candidate Model



Age-specific M

