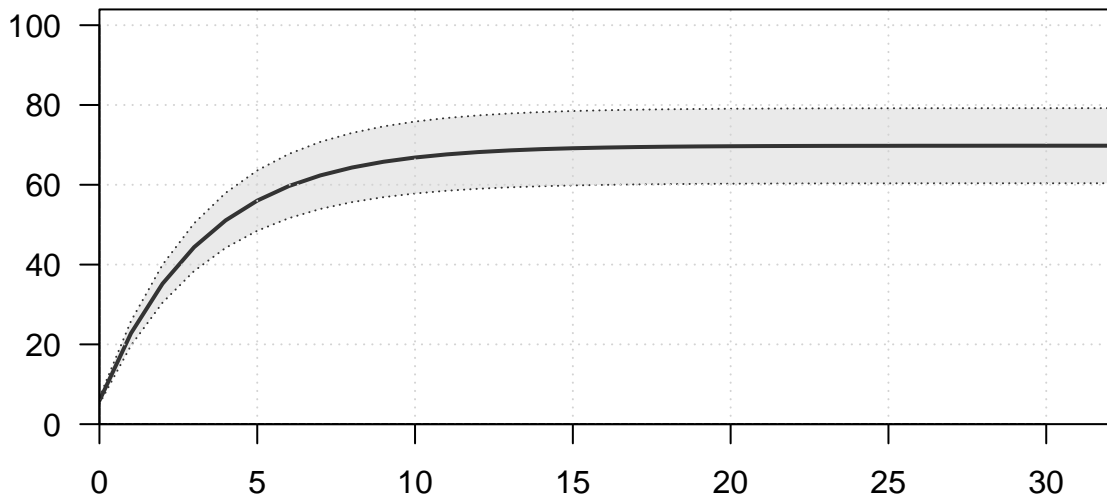
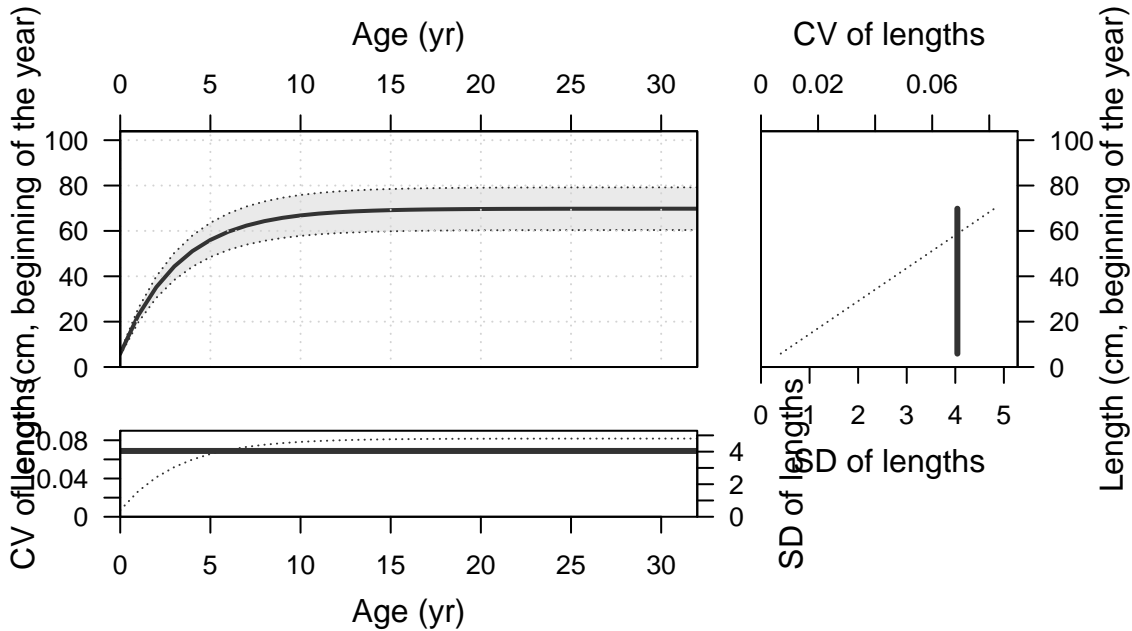


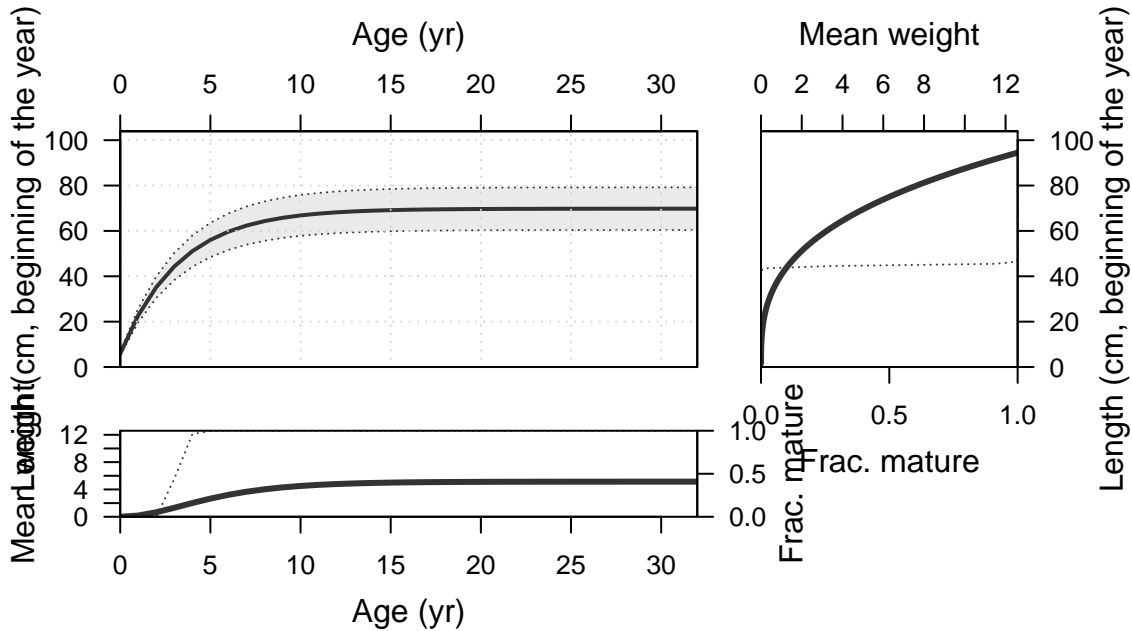
Plots created using the 'r4ss' package in R  
Stock Synthesis version: 3.30.19.0  
StartTime: Thu Aug 04 15:26:46 2022  
Data\_File: data.ss  
Control\_File: control.ss

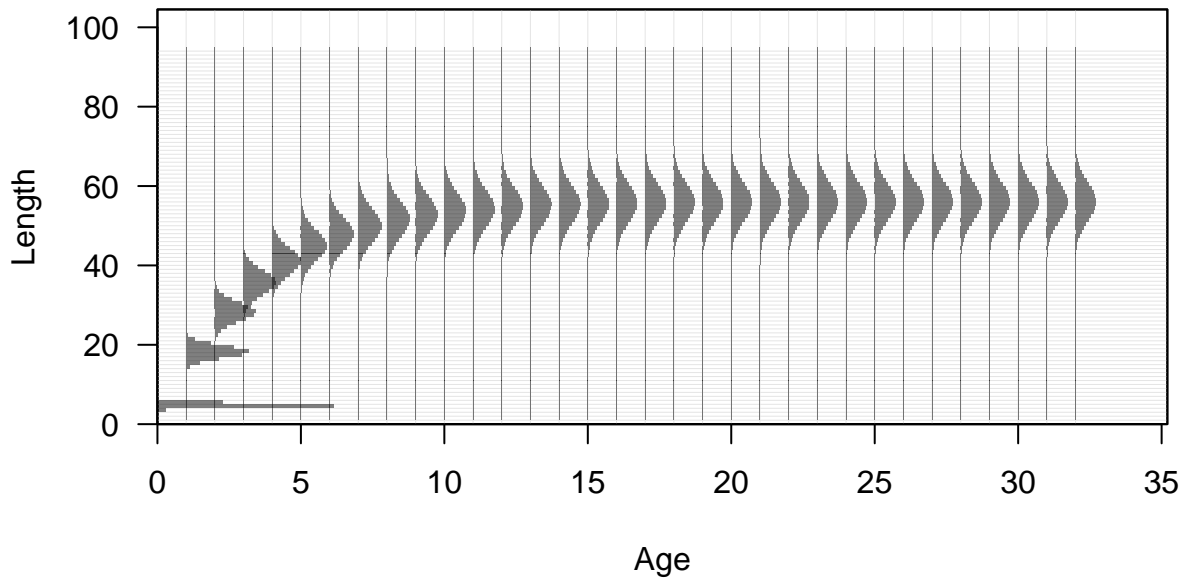
Length (cm, beginning of the year)

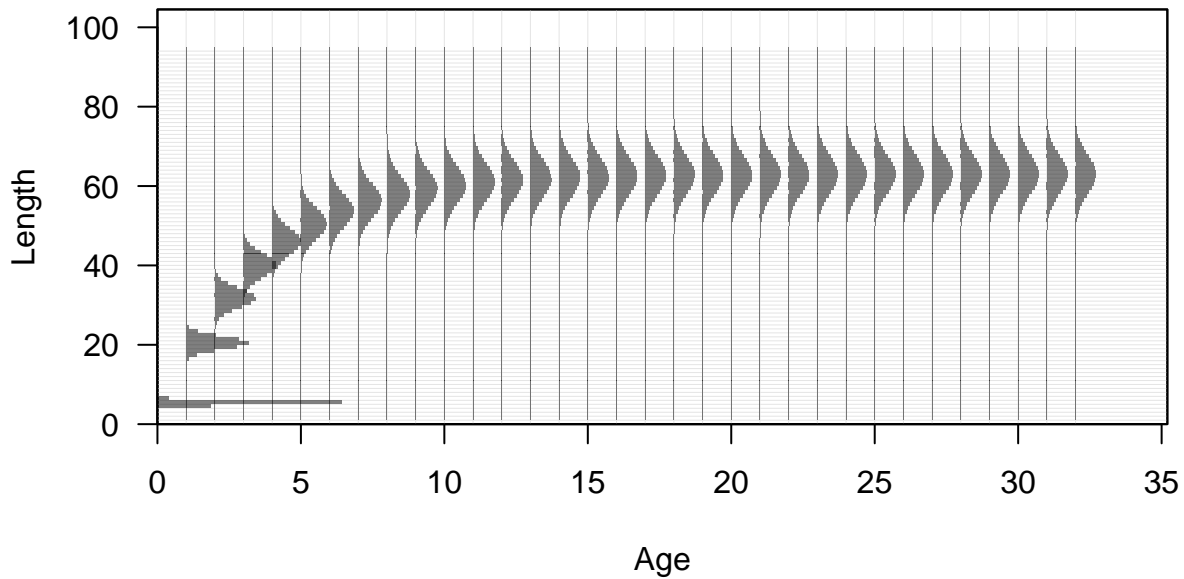


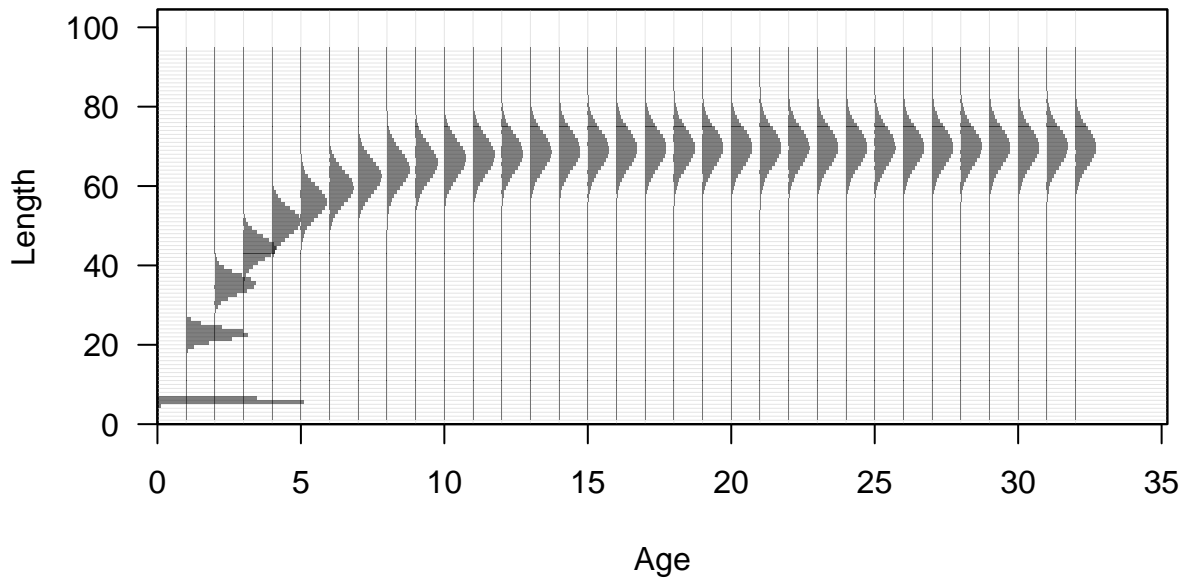
Age (yr)

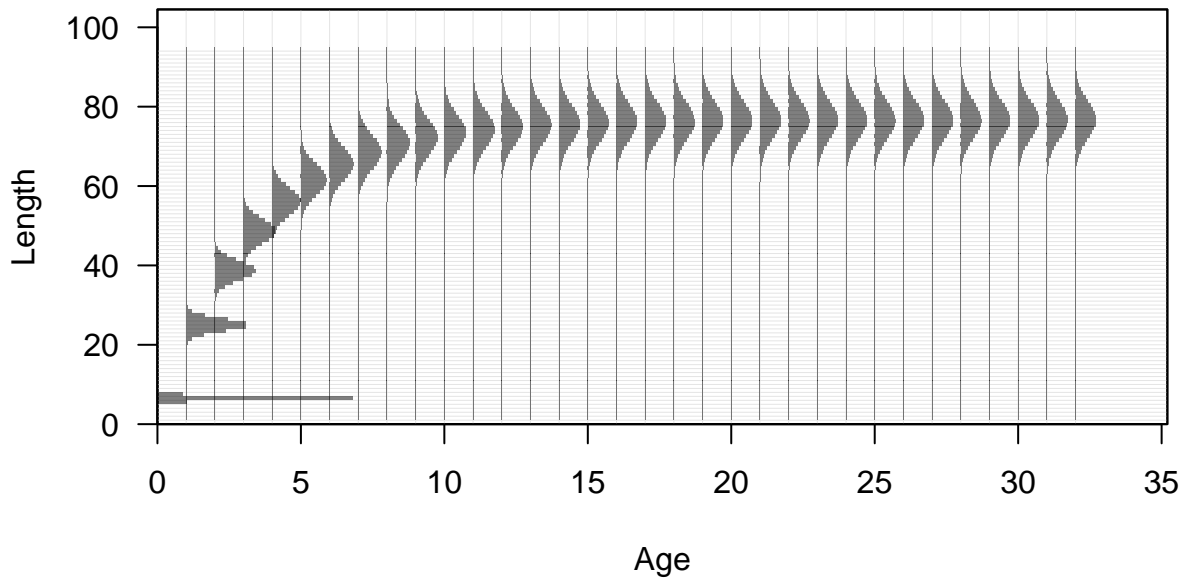




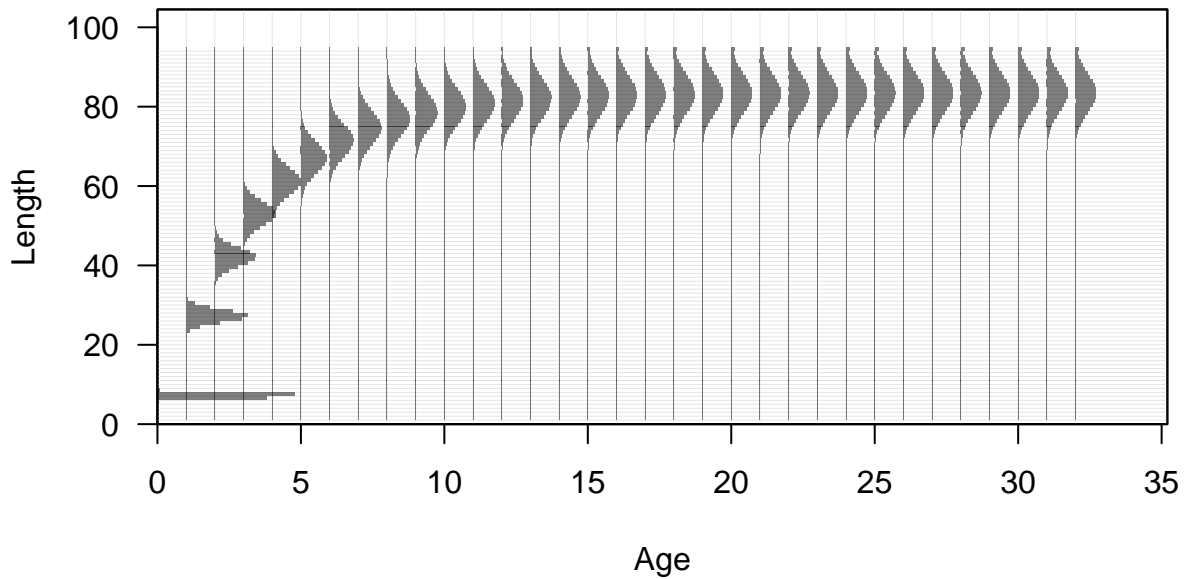


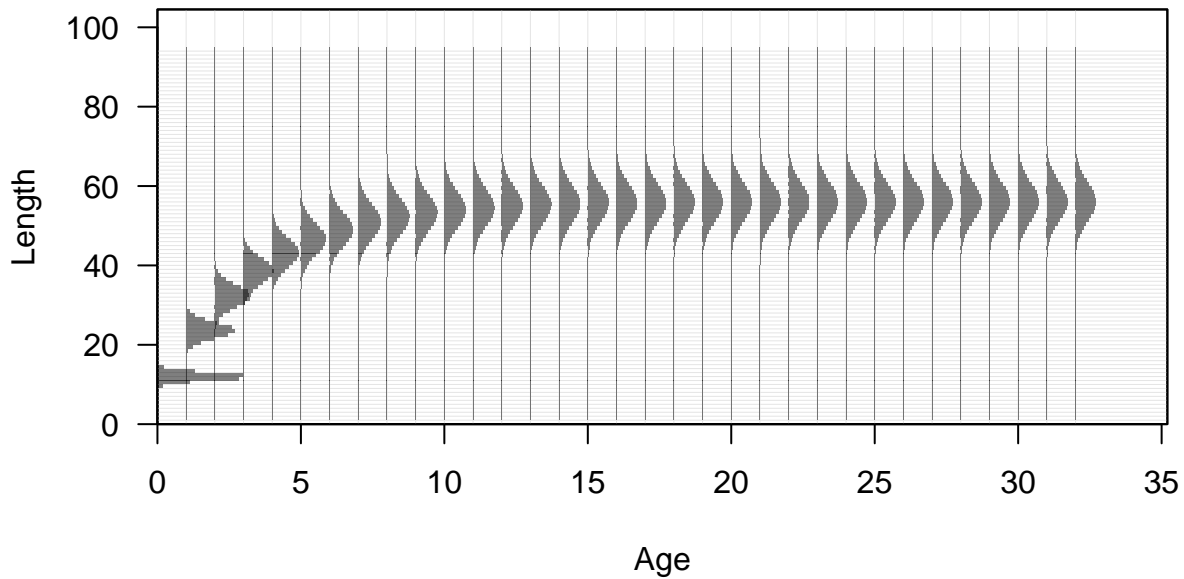


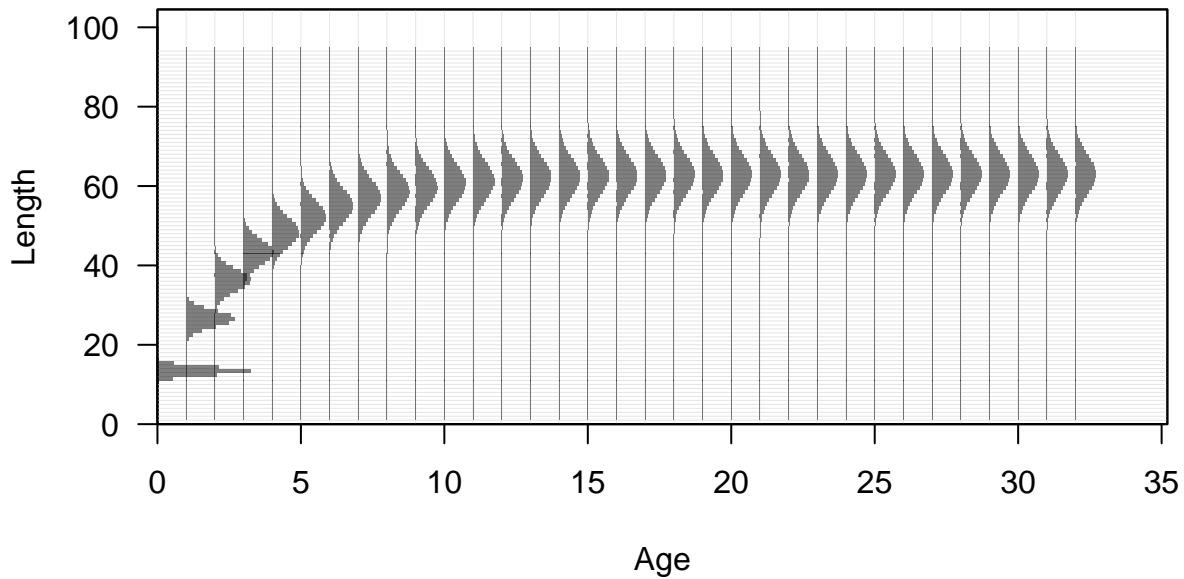


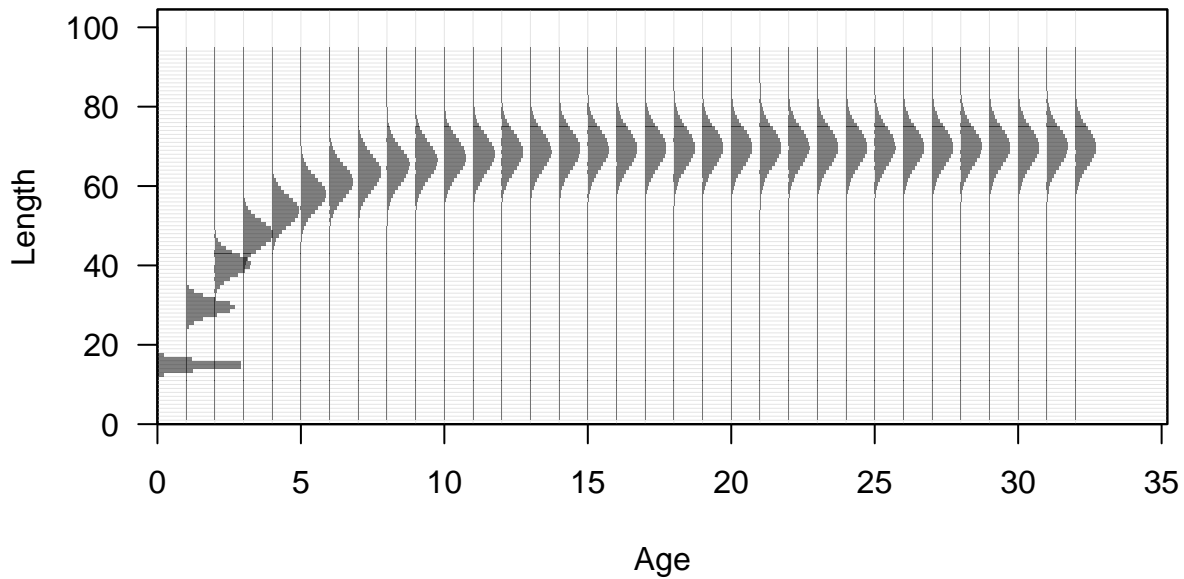


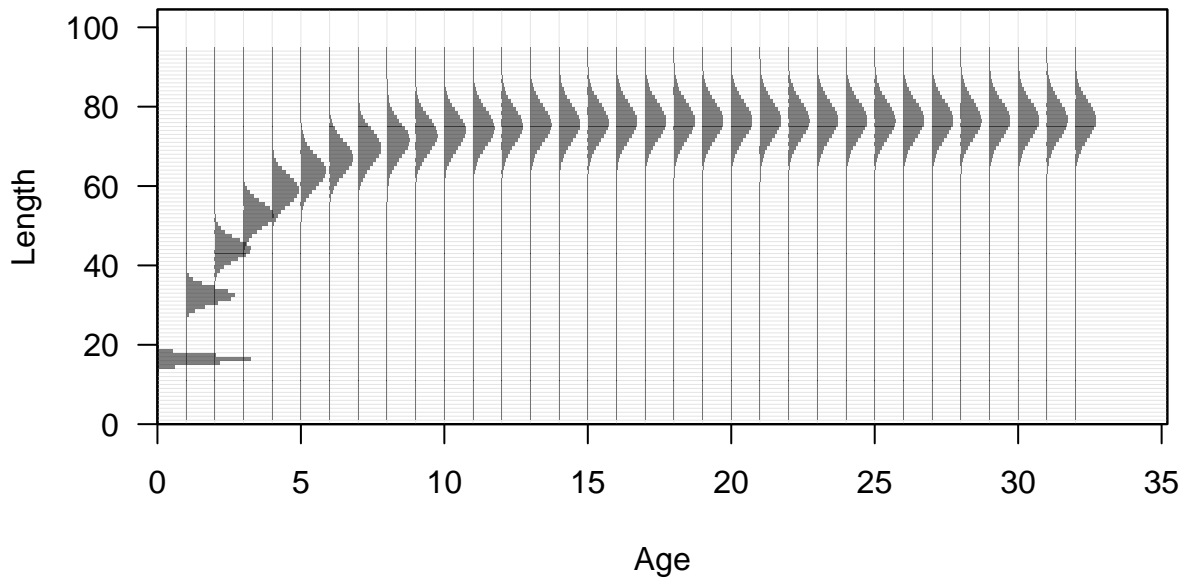


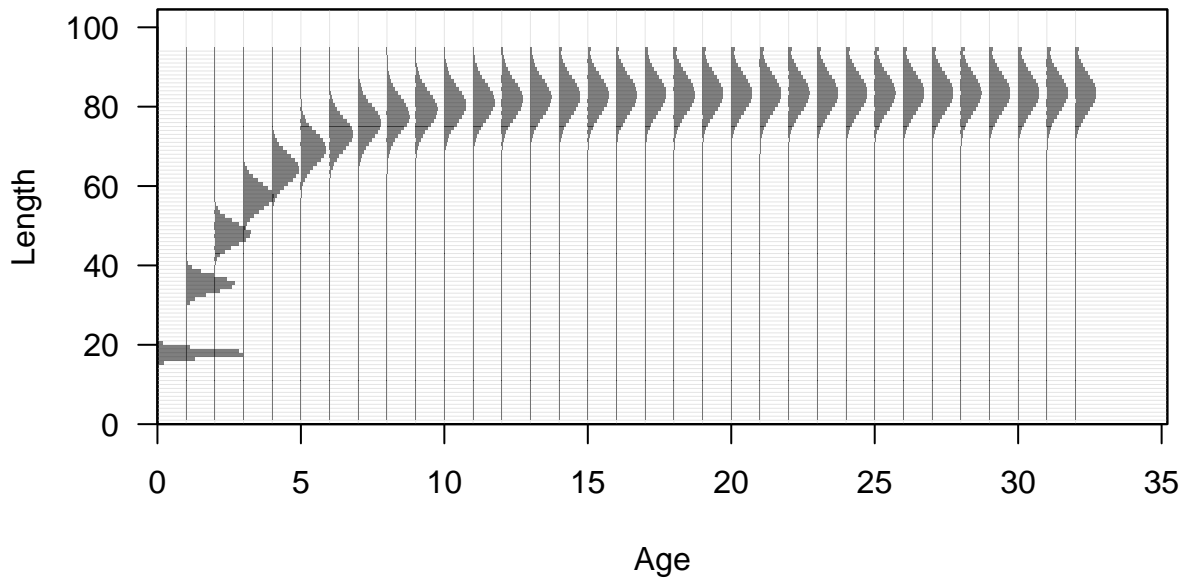


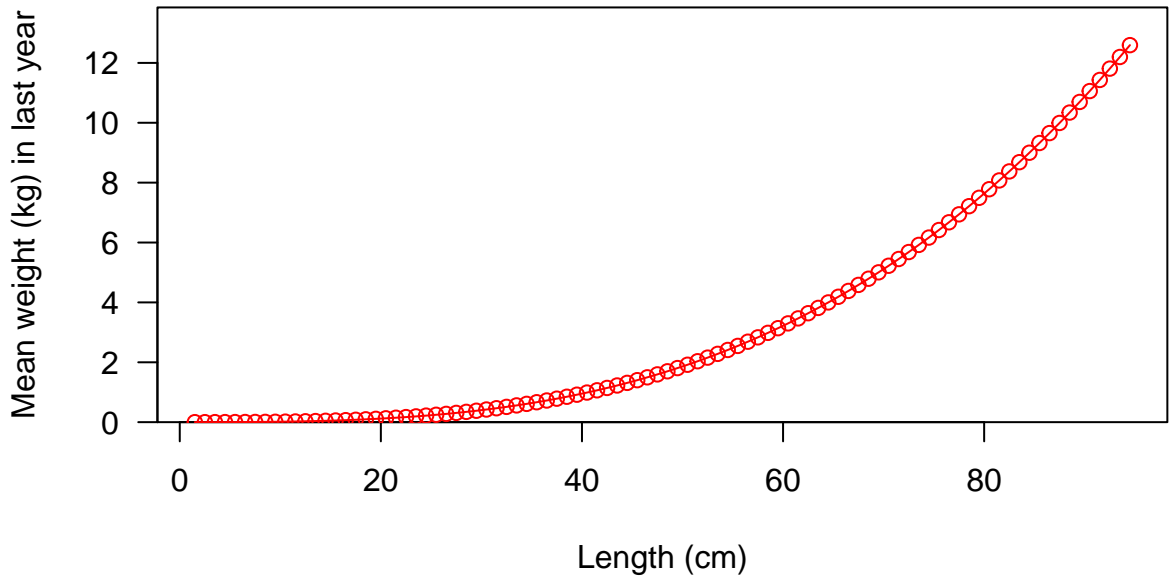






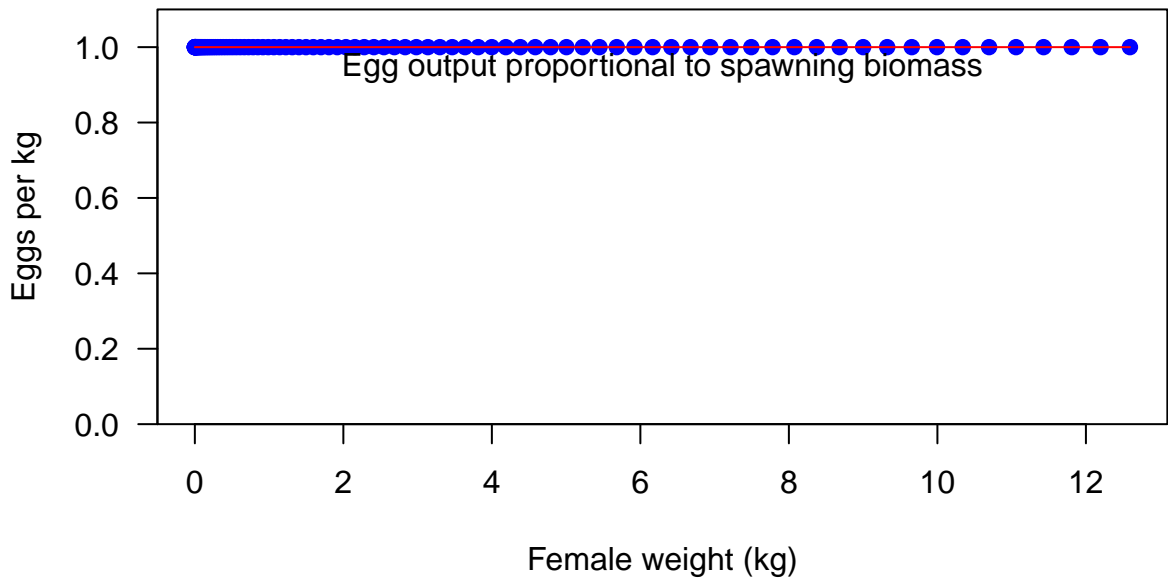




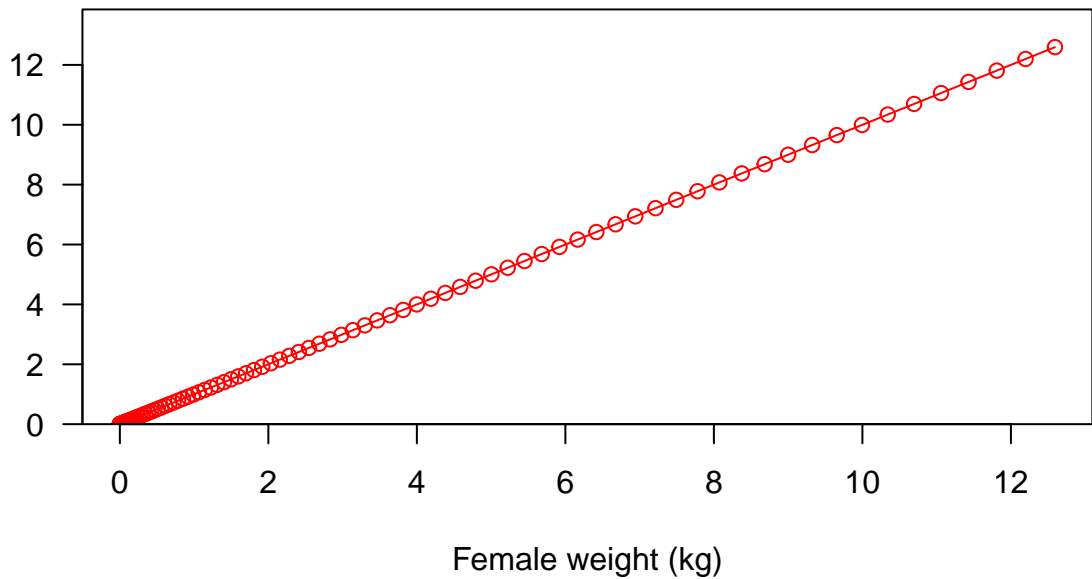




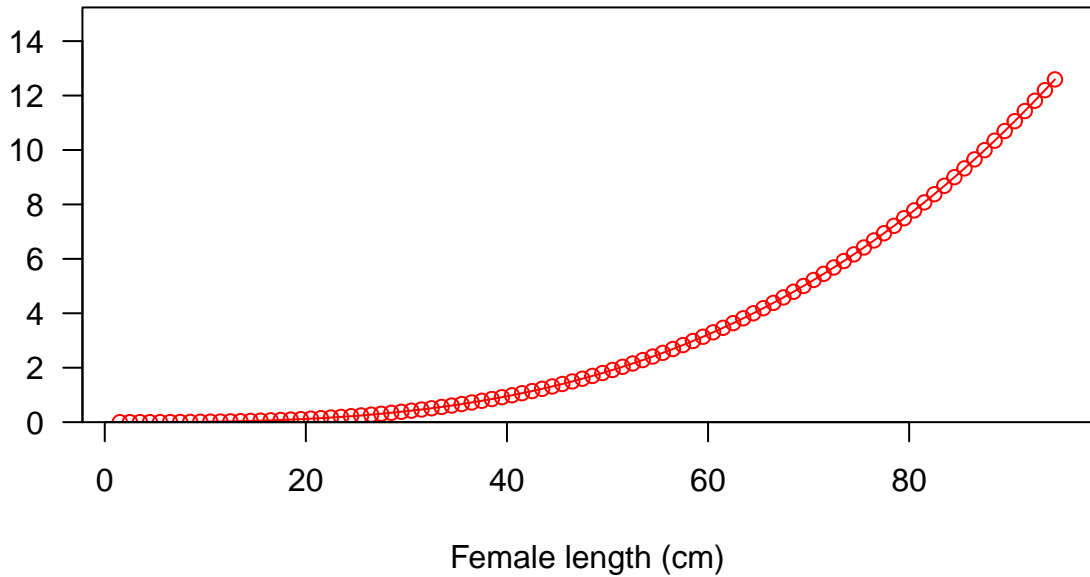




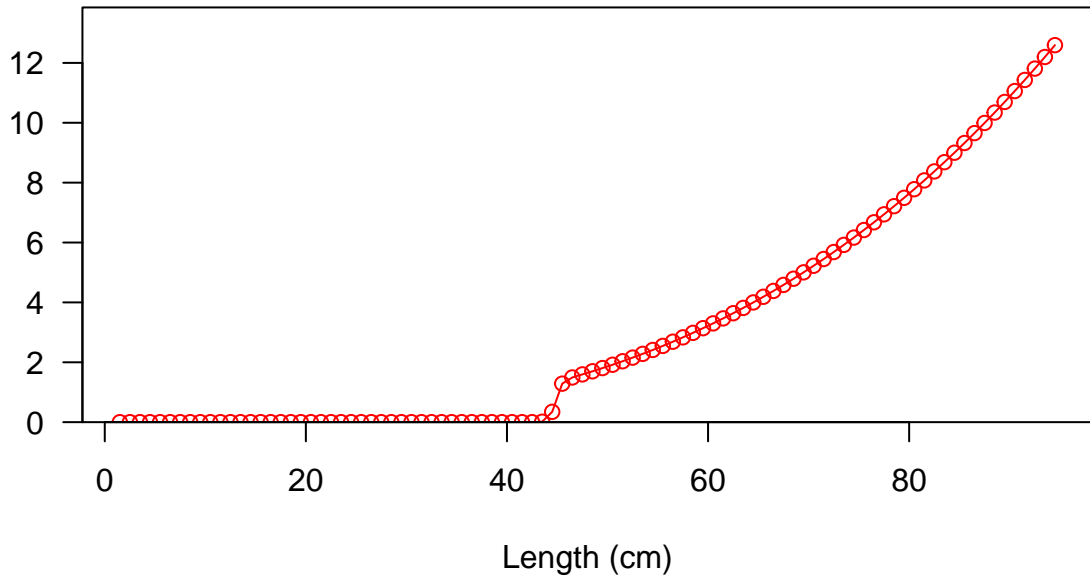
Fecundity



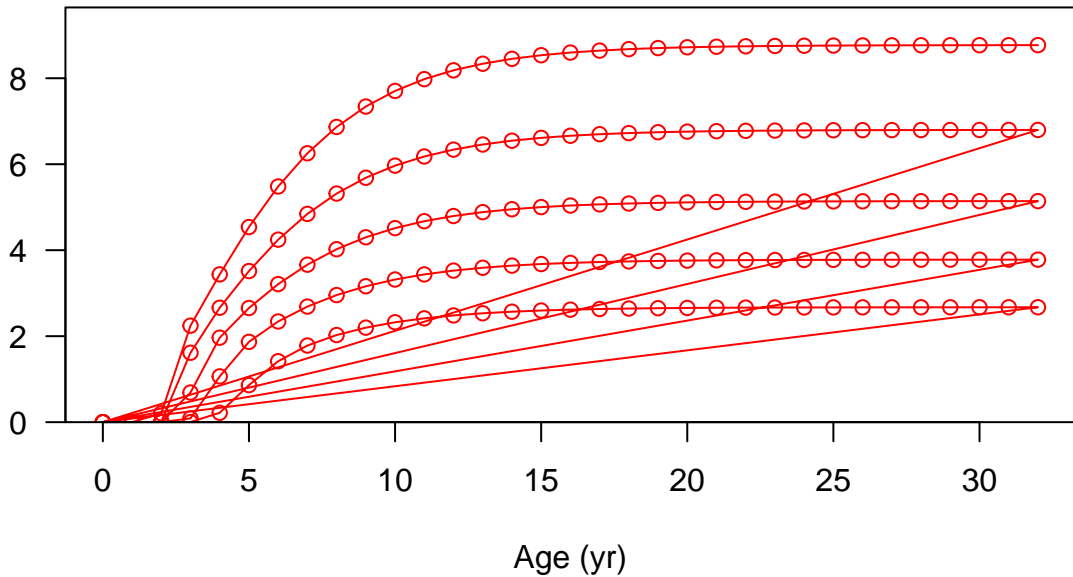
Fecundity



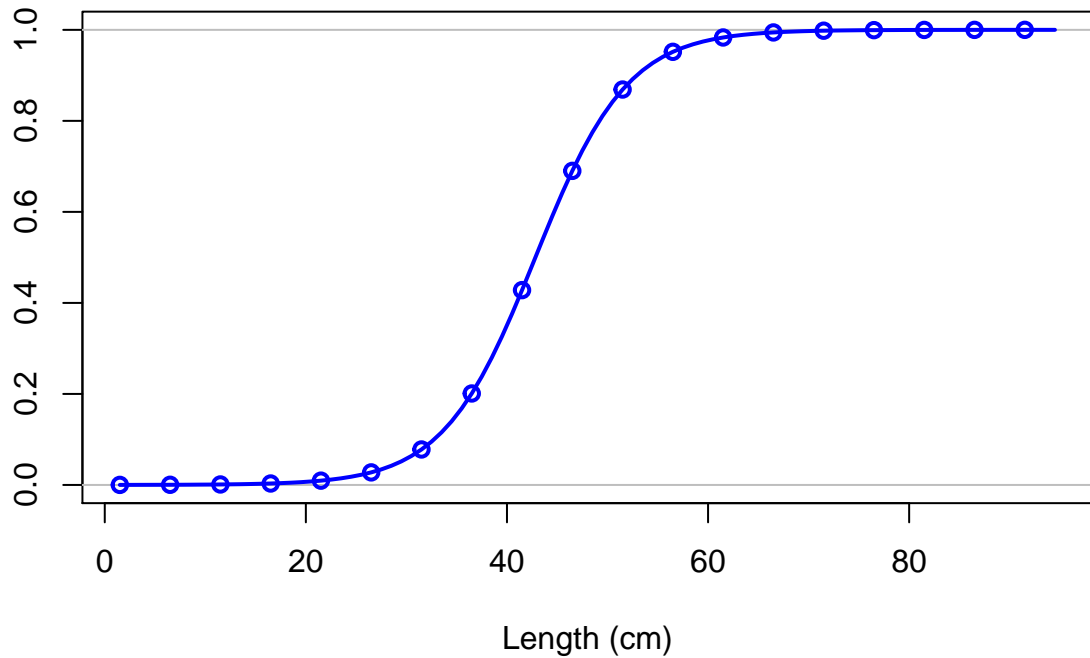
Spawning output



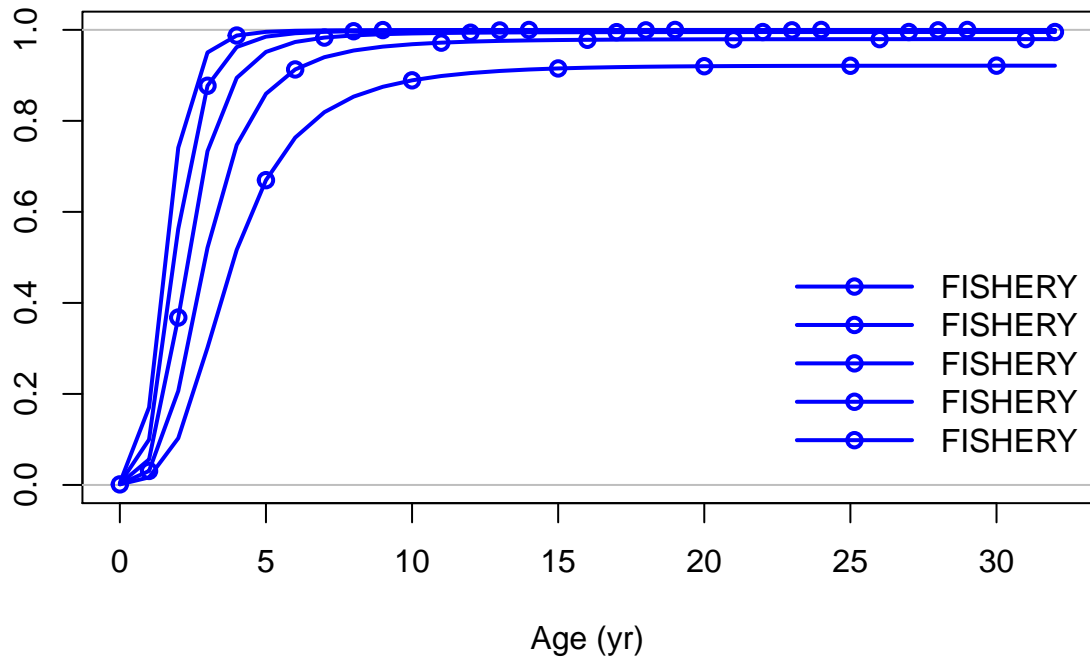
Spawning output



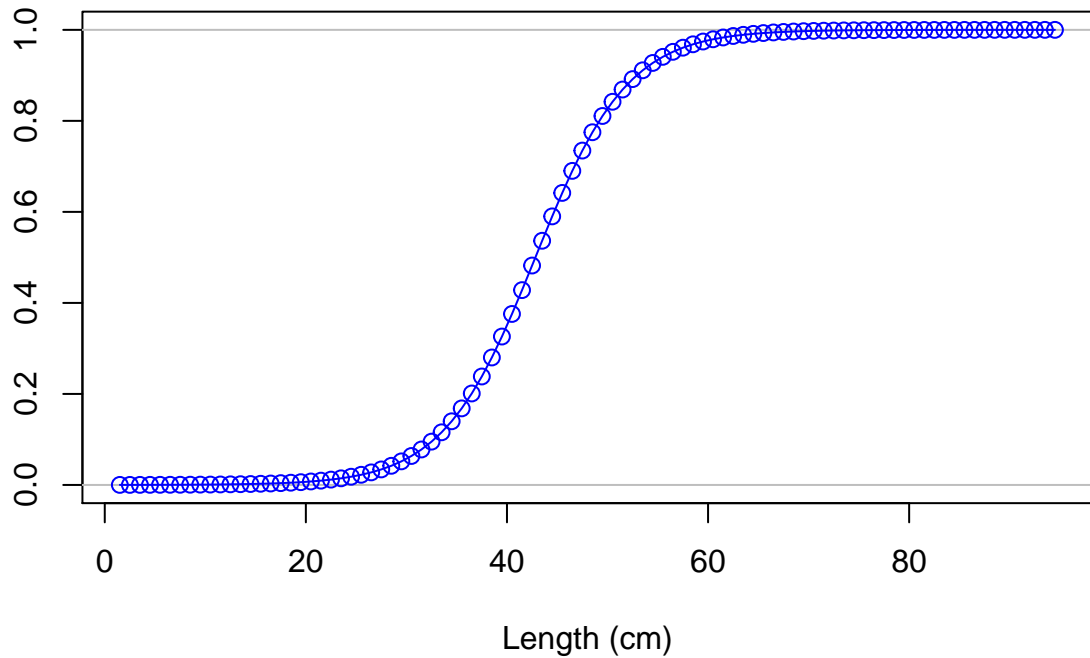
Selectivity



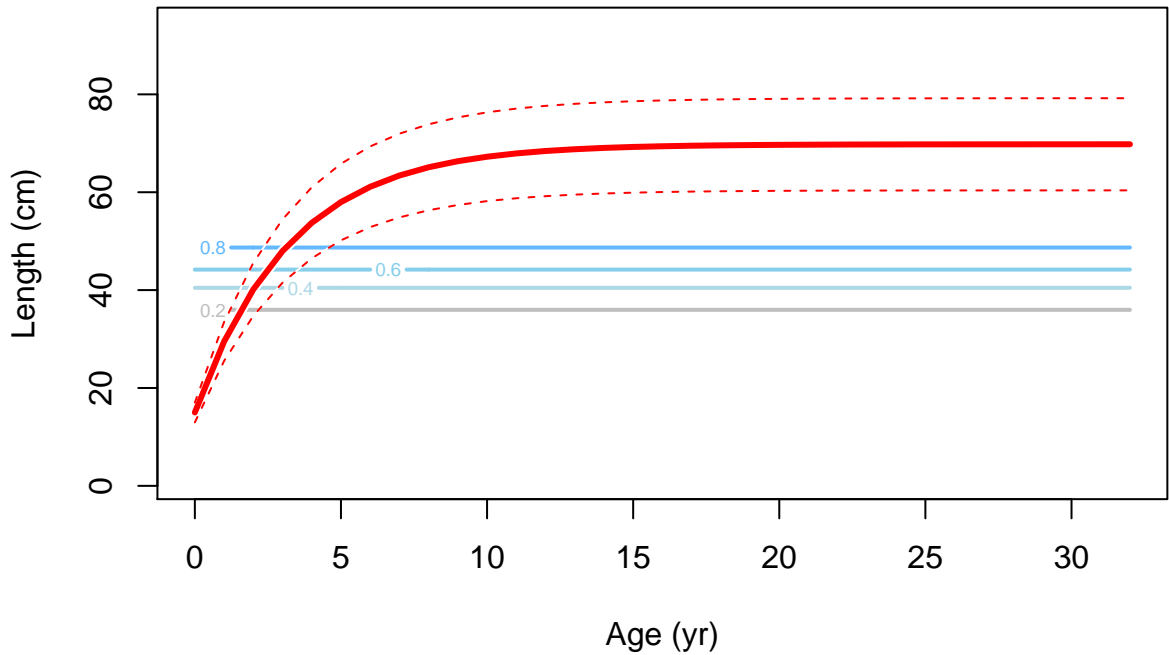
Selectivity

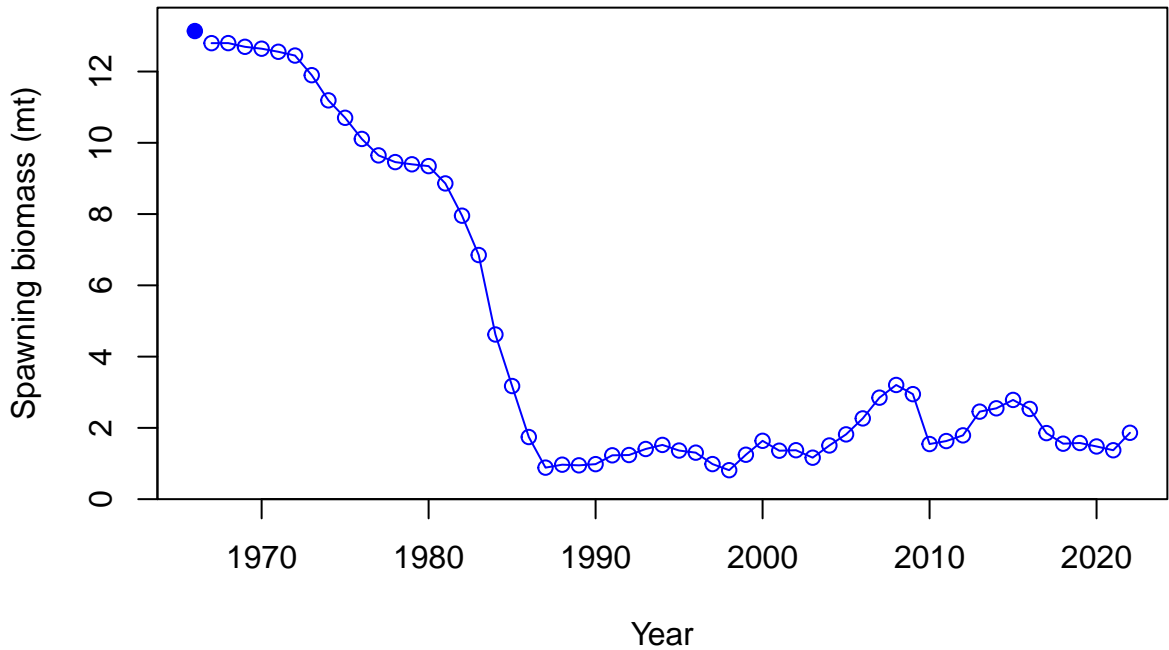


Selectivity

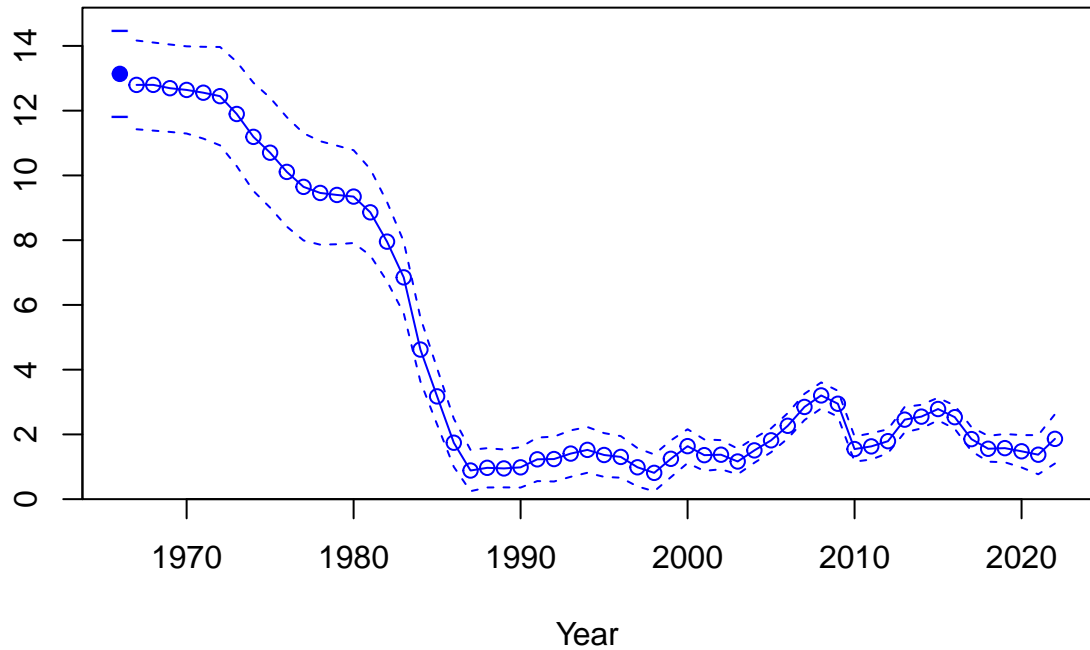




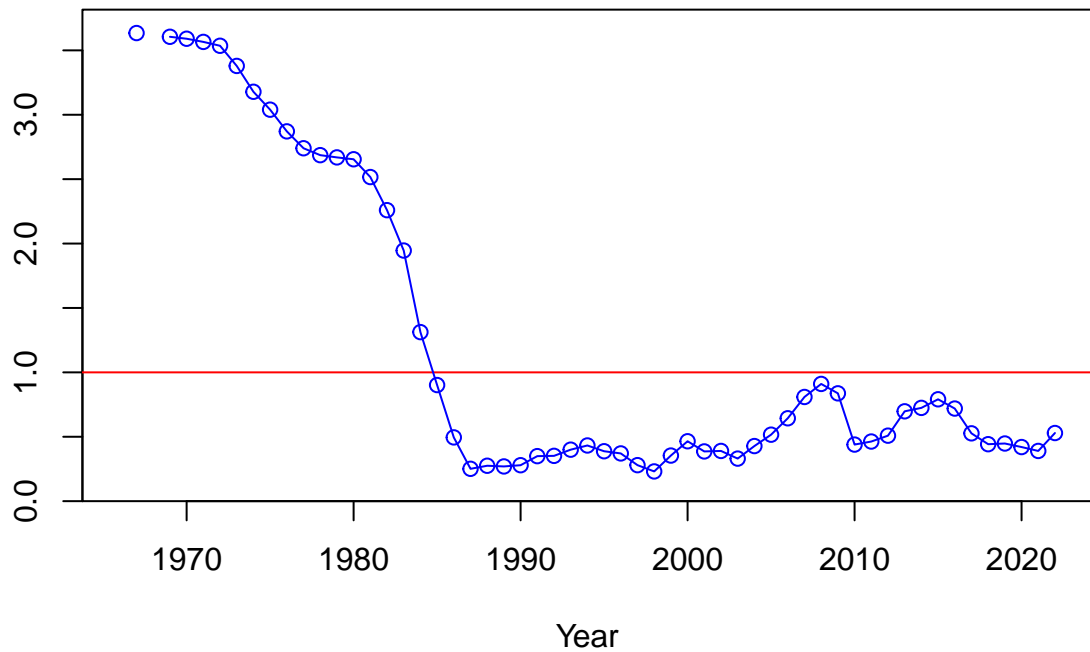




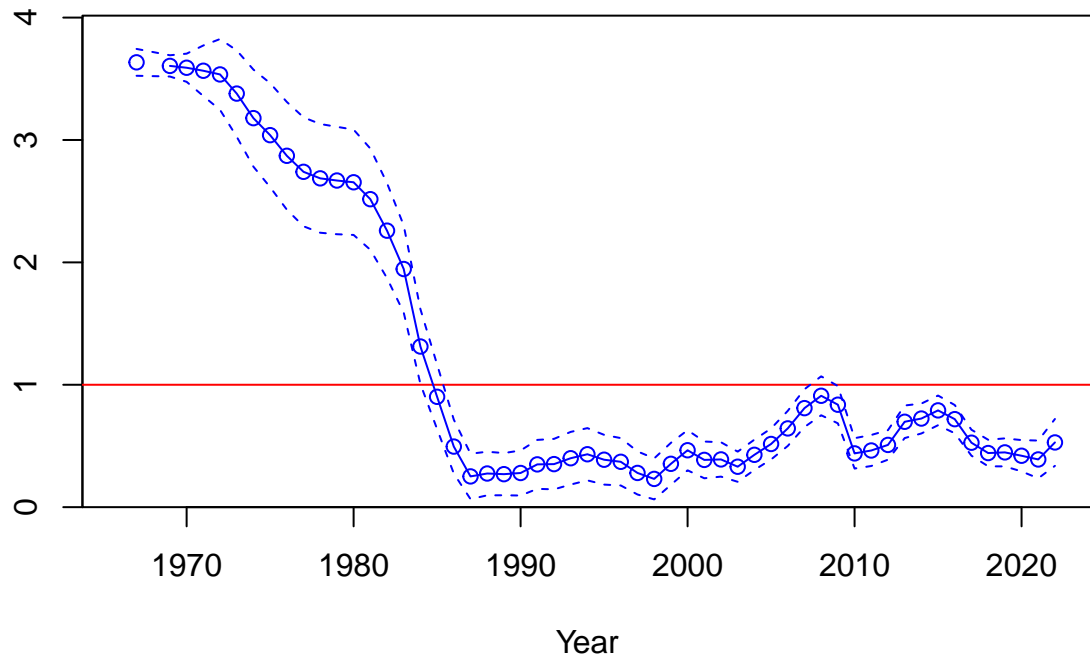
Spawning biomass (mt)

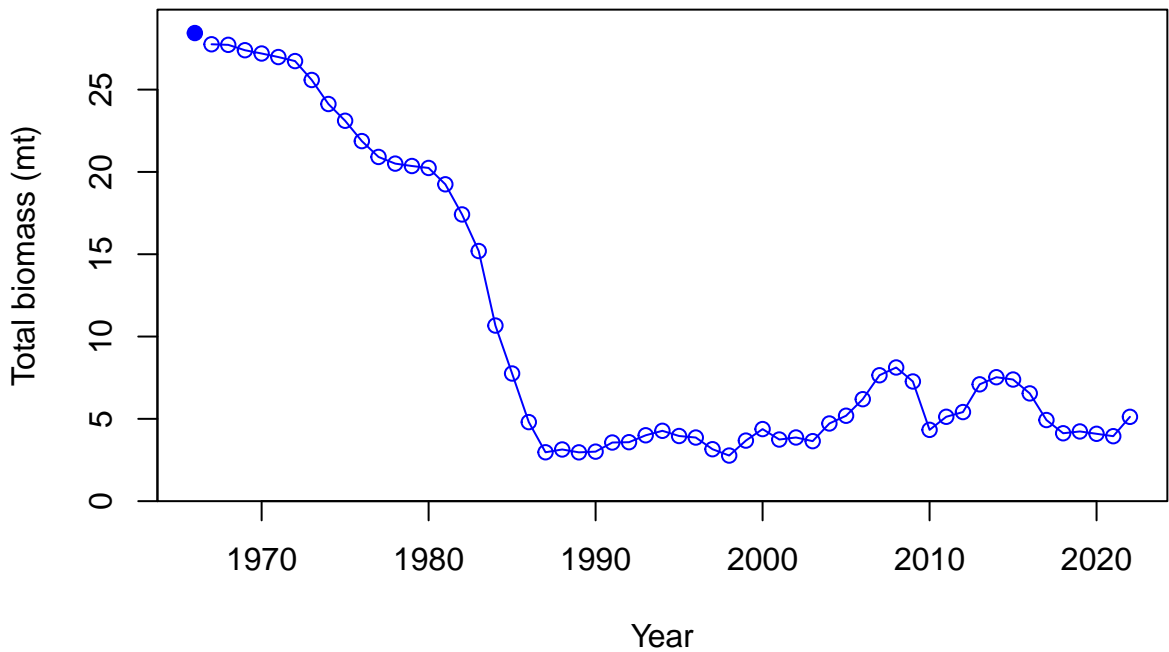


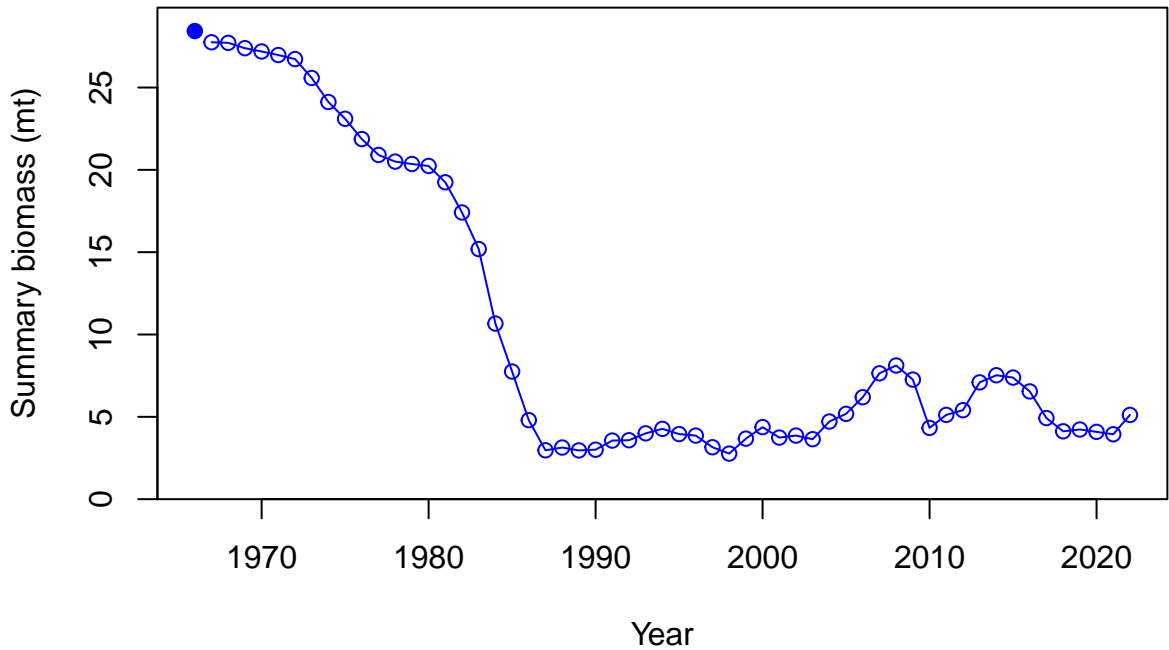
Relative spawning biomass: B/B<sub>MSY</sub>



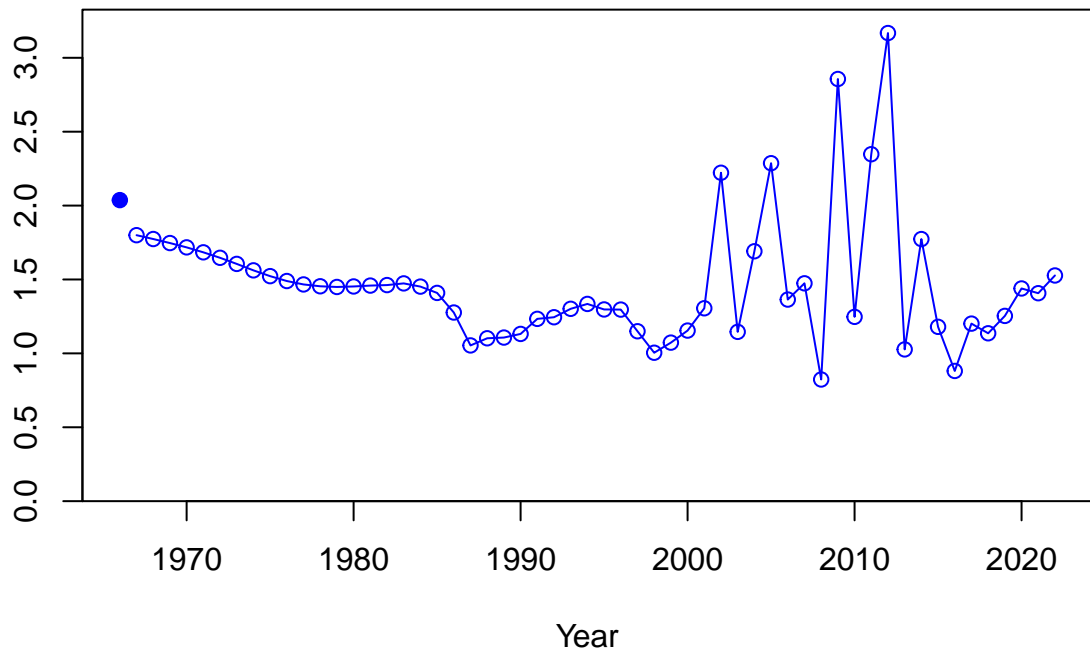
Relative spawning biomass:  $B/B_{MSY}$





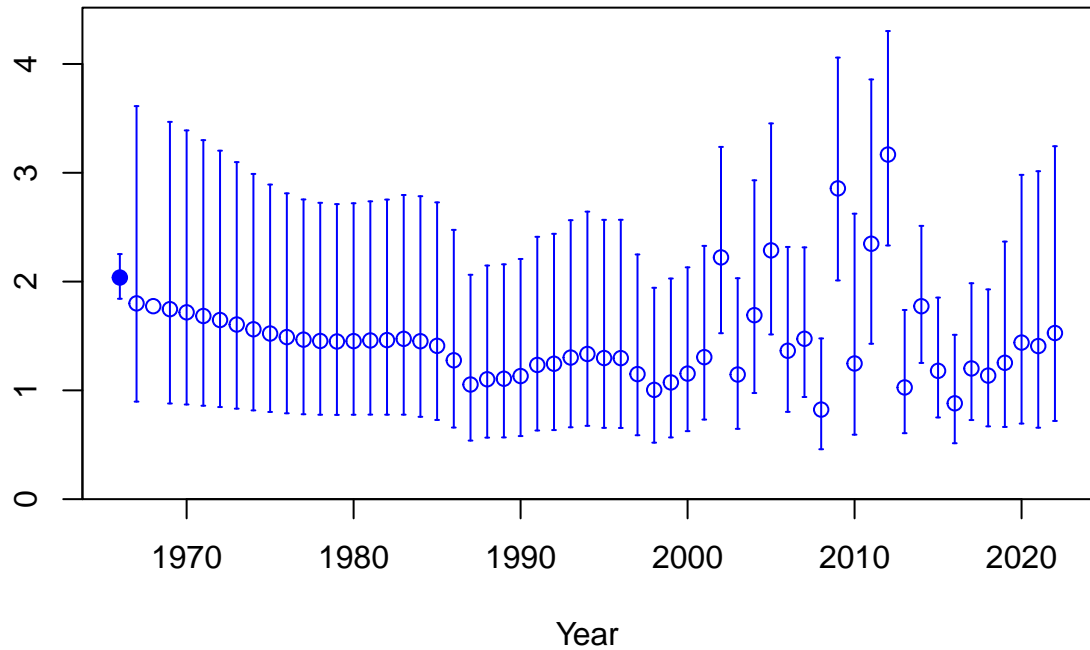


Age-0 recruits (1,000s)

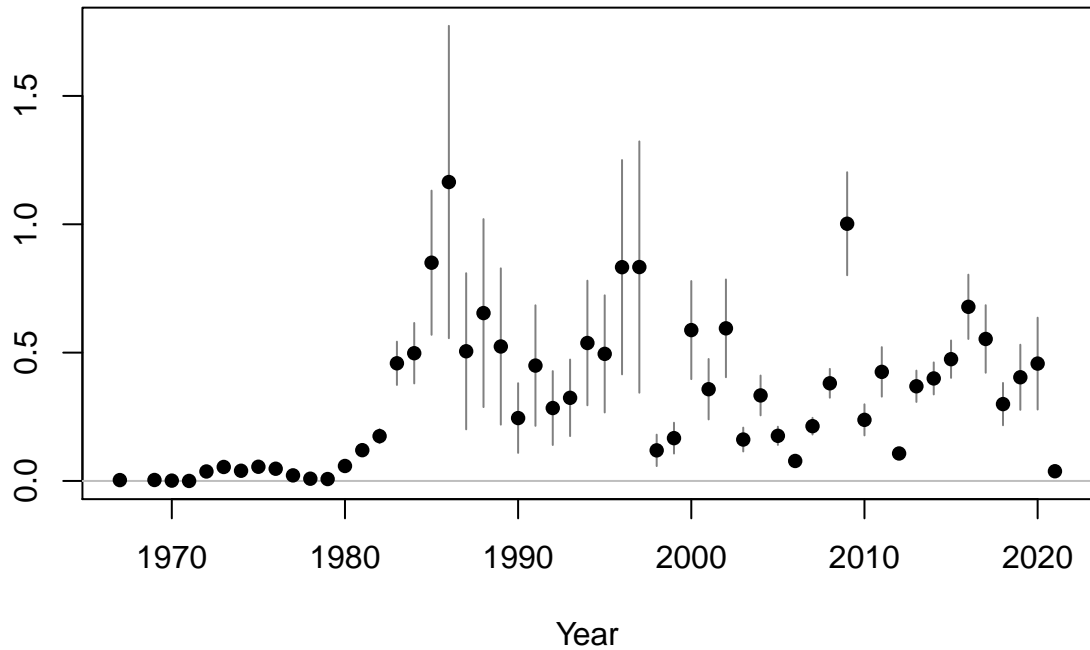


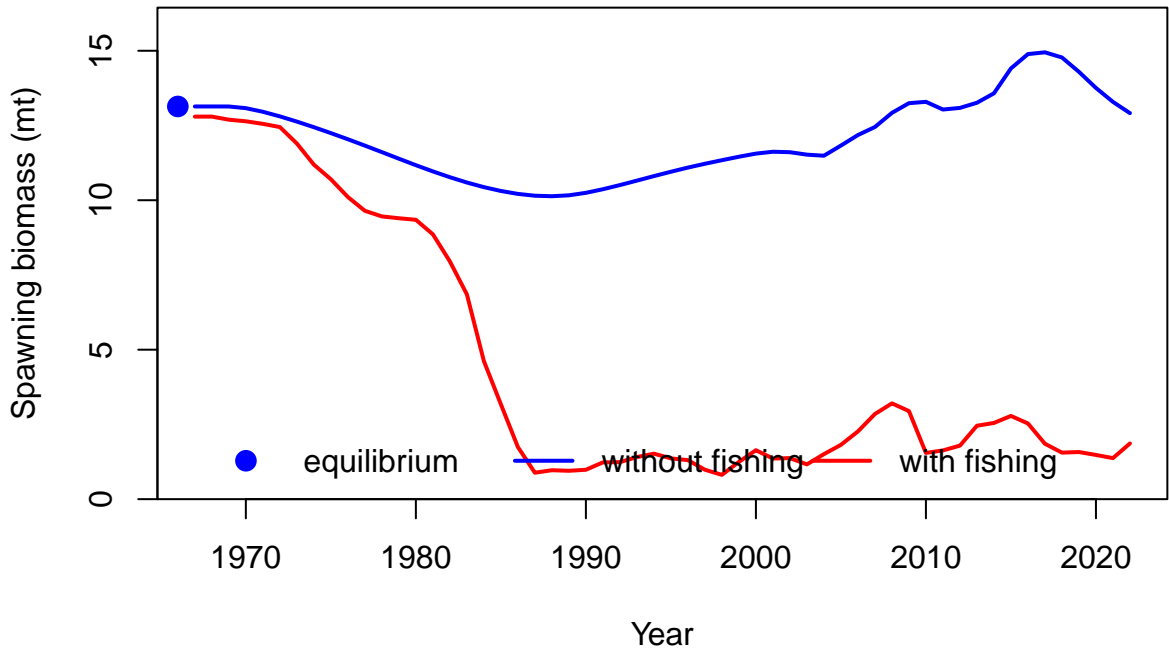


Age-0 recruits (1,000s)



Summary Fishing Mortality





Log recruitment deviation

0.5  
0.0  
-0.5

1970

1980

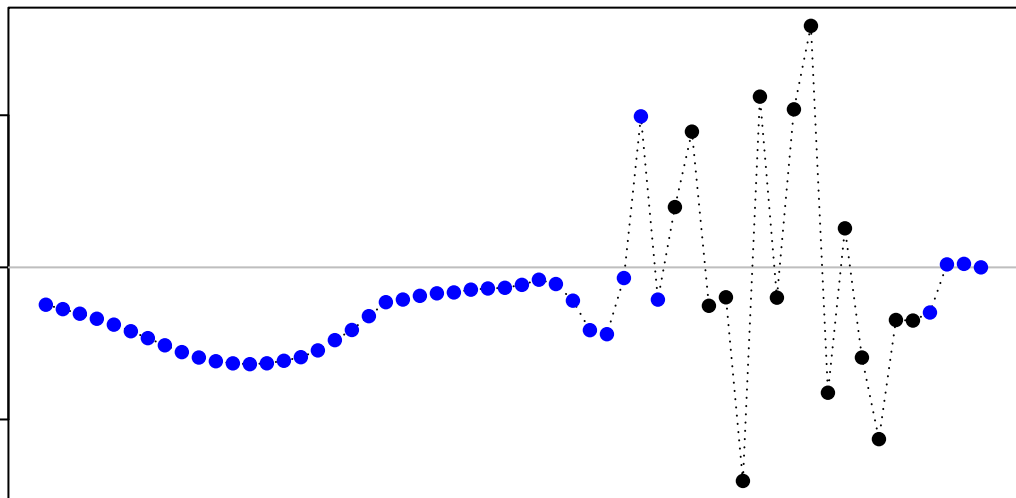
1990

2000

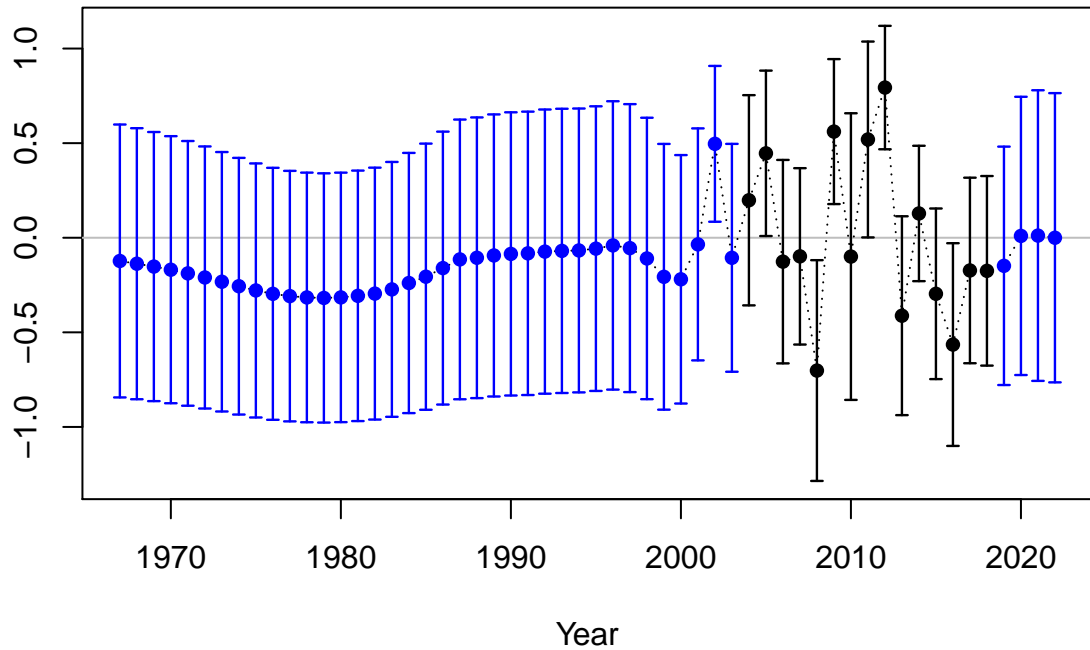
2010

2020

Year

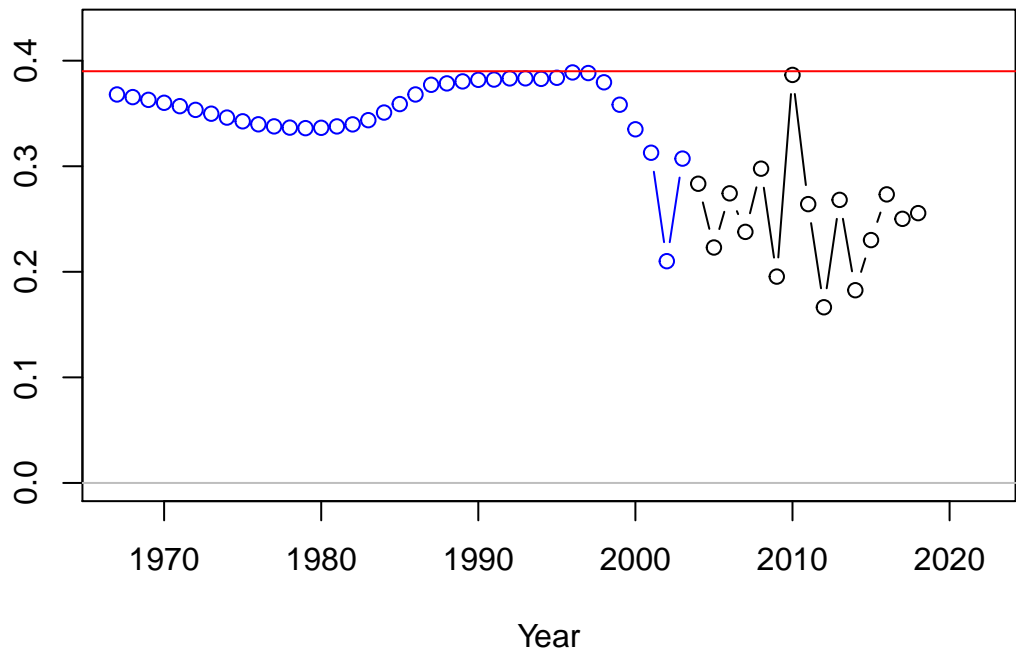


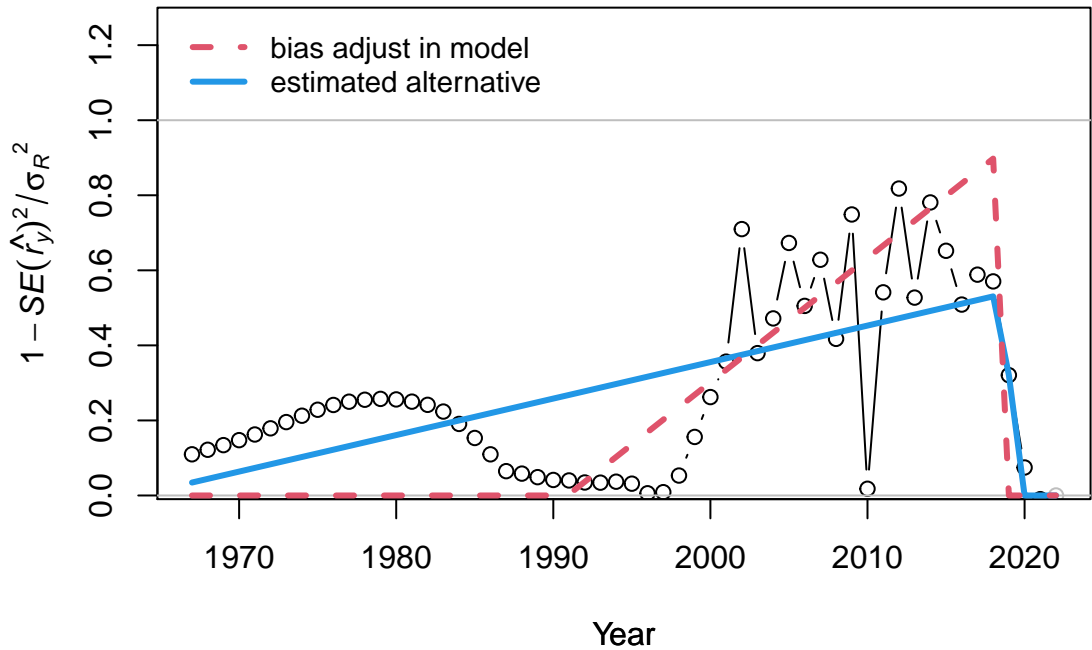
Log recruitment deviation

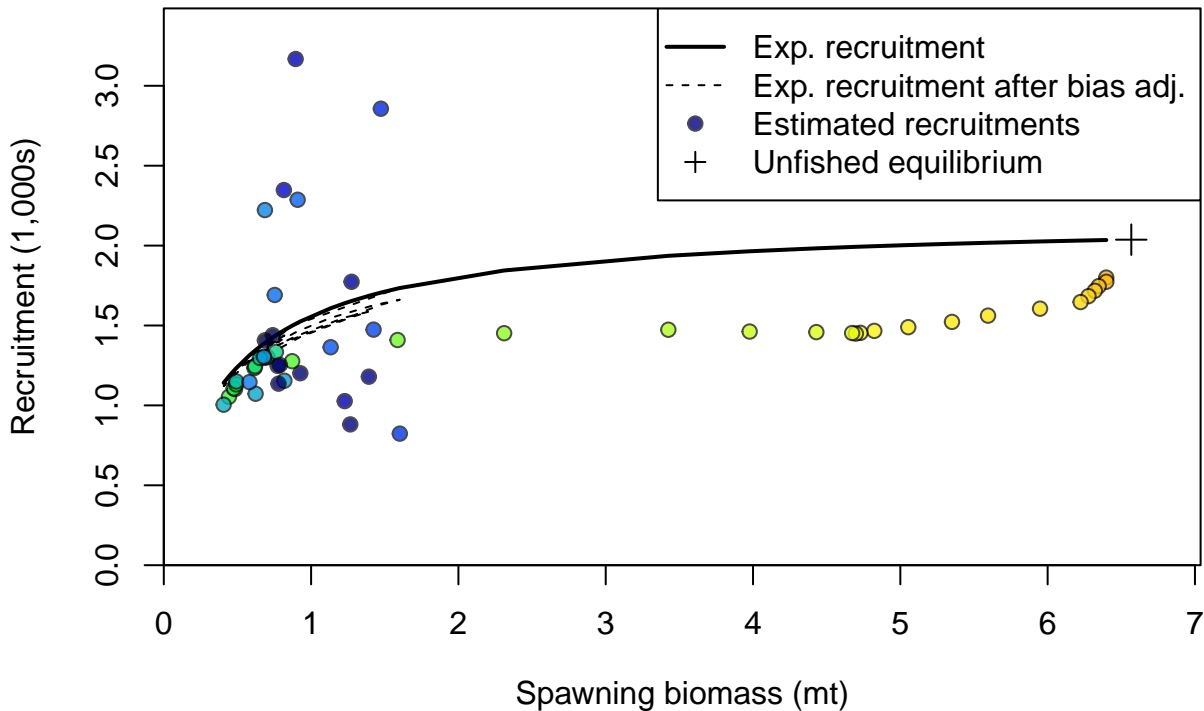


## Recruitment deviation variance

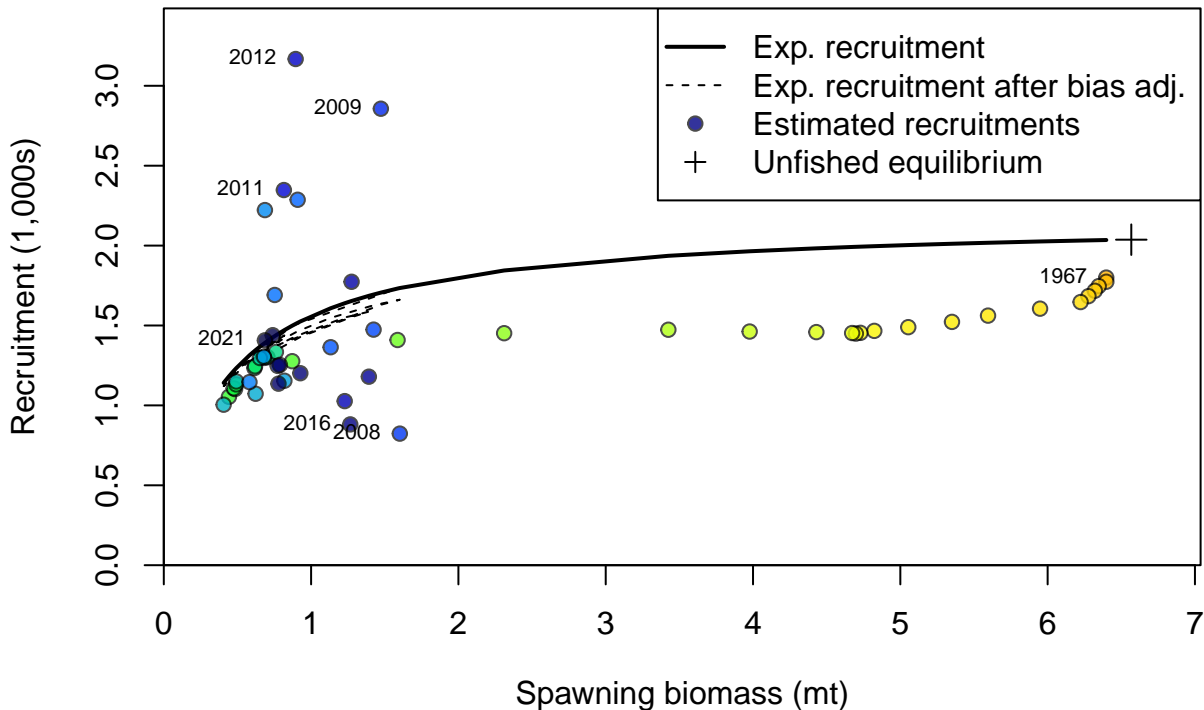
Asymptotic standard error estimate



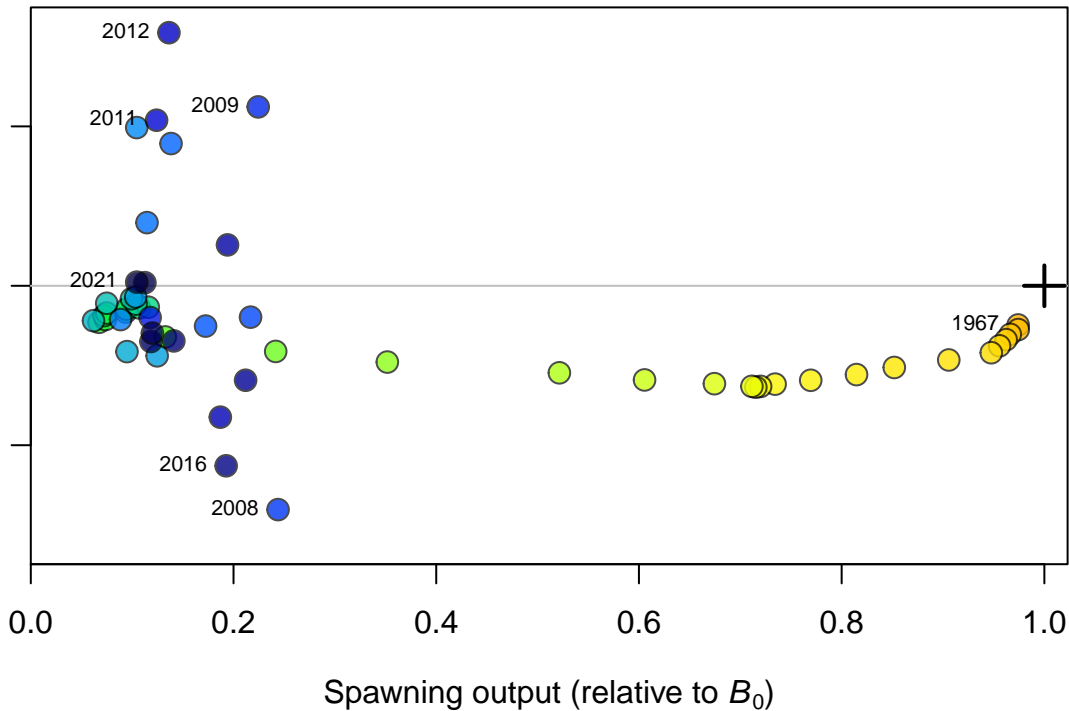


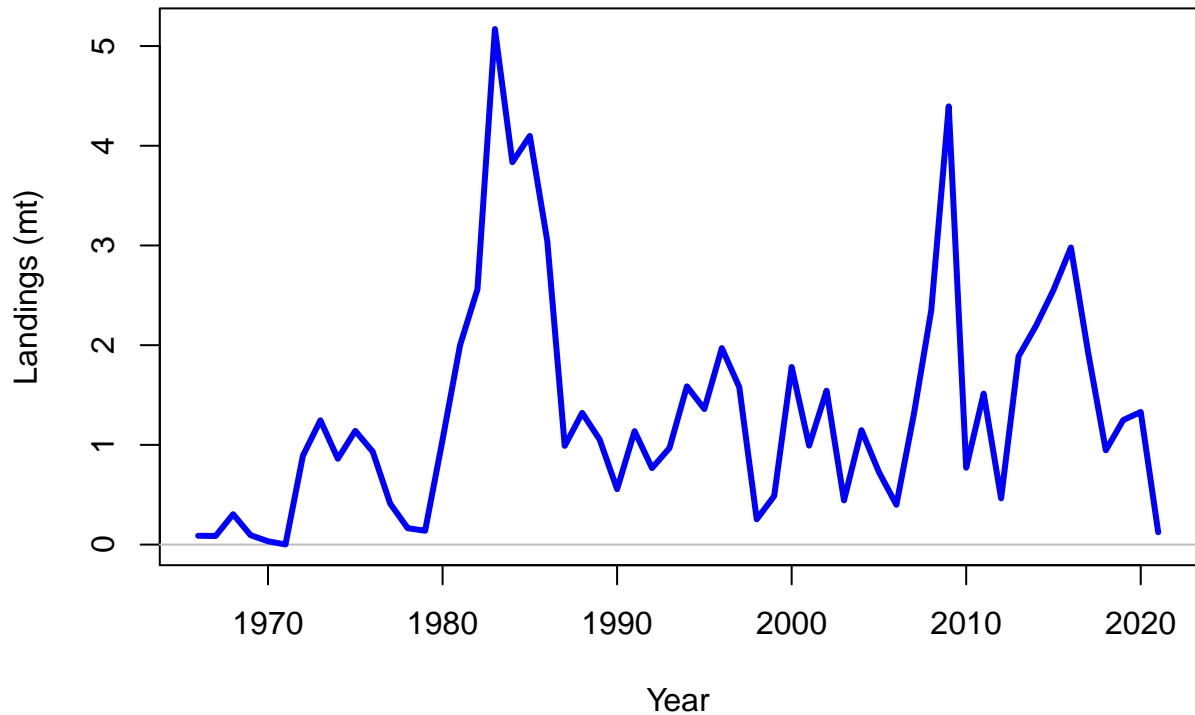




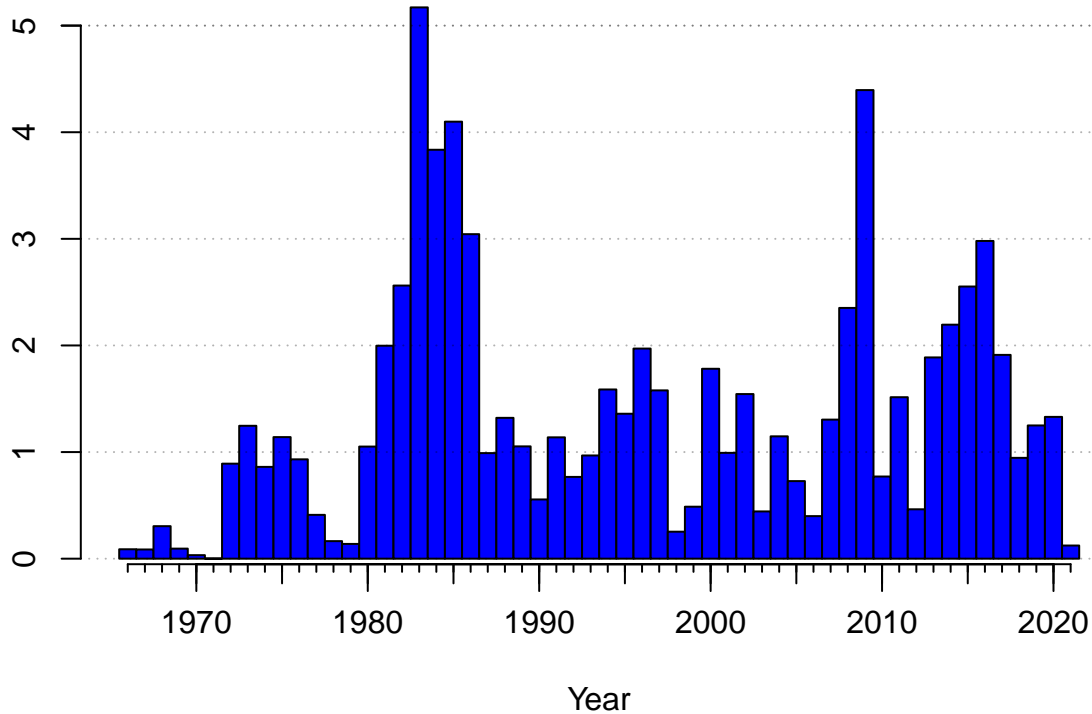


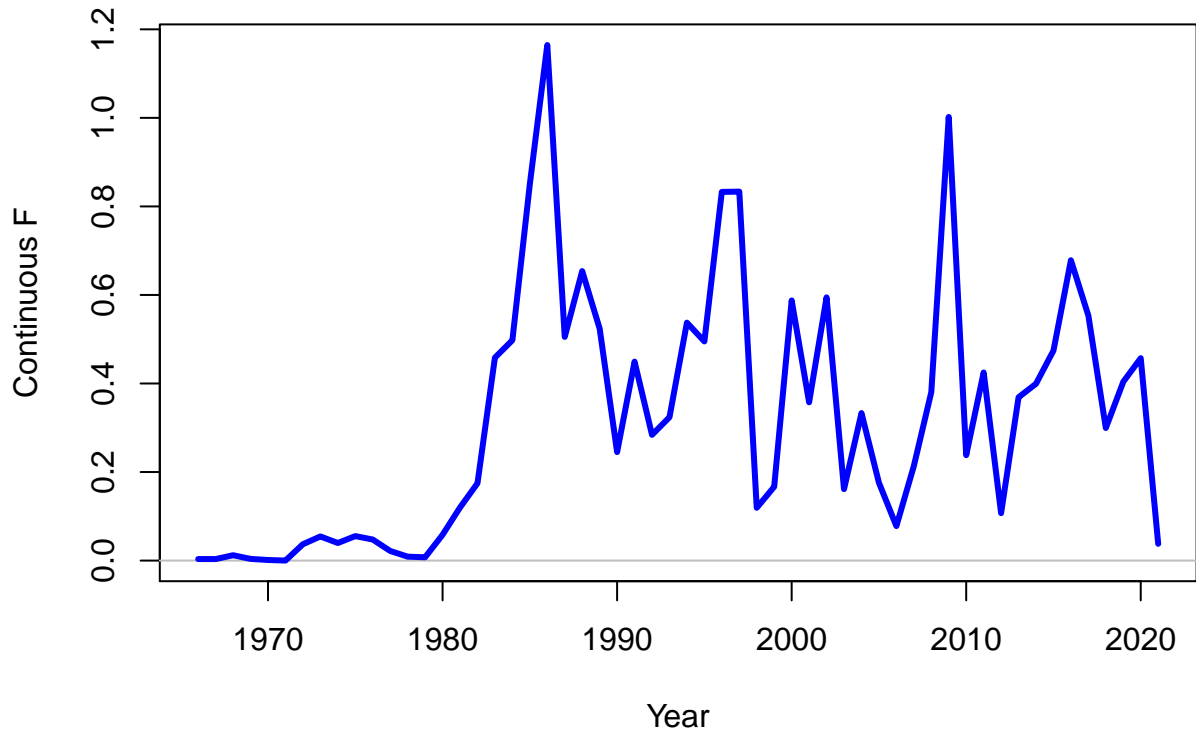
Log recruitment deviation



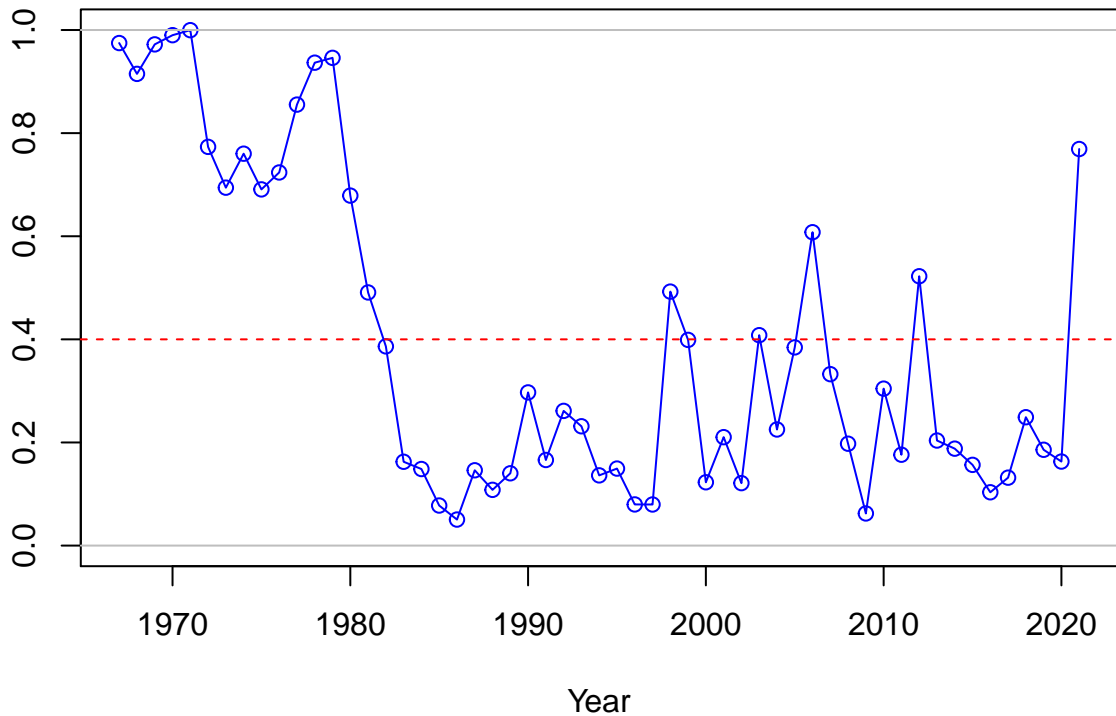


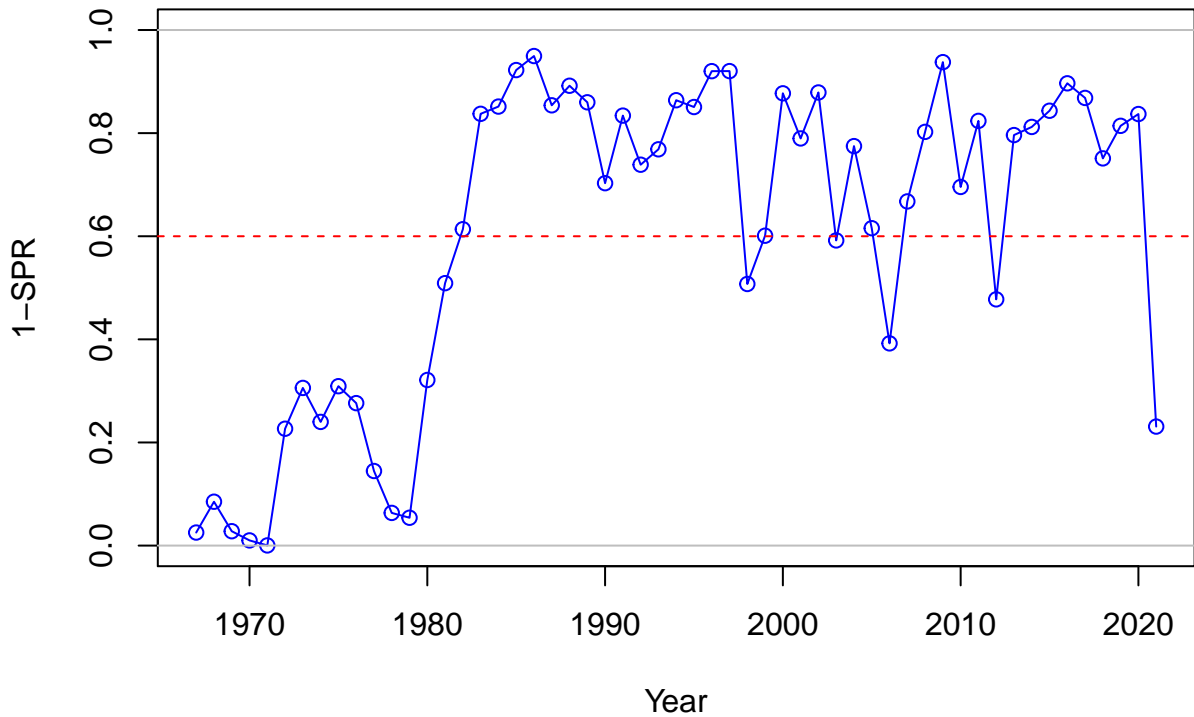
Landings (mt)



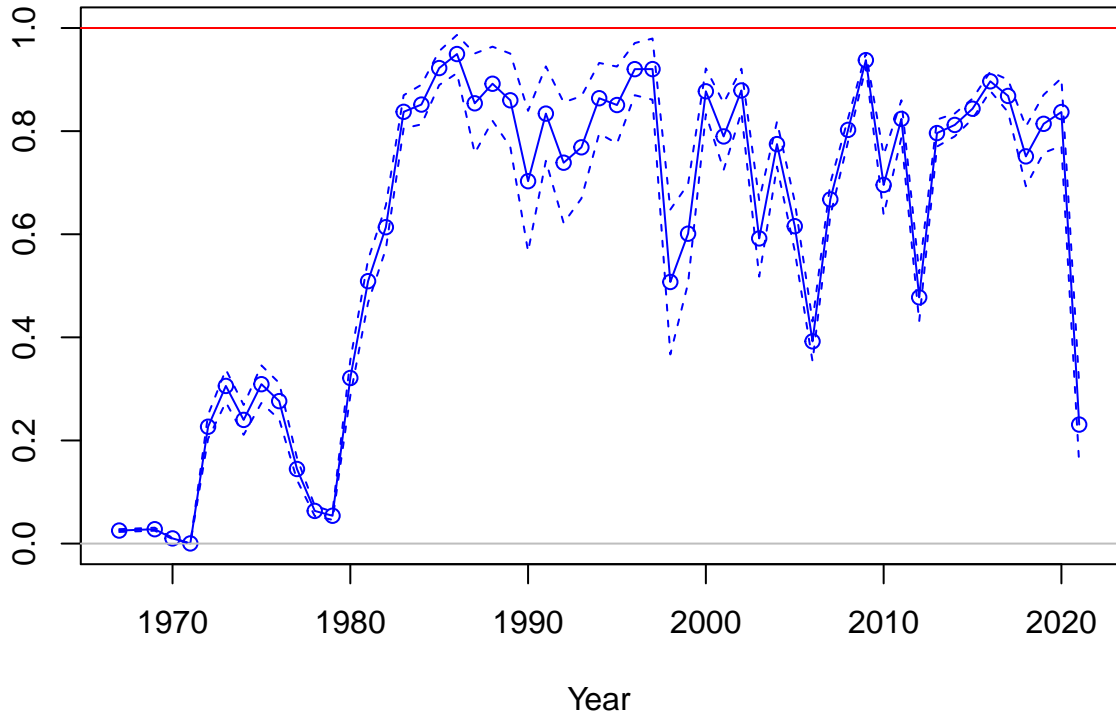


SPR



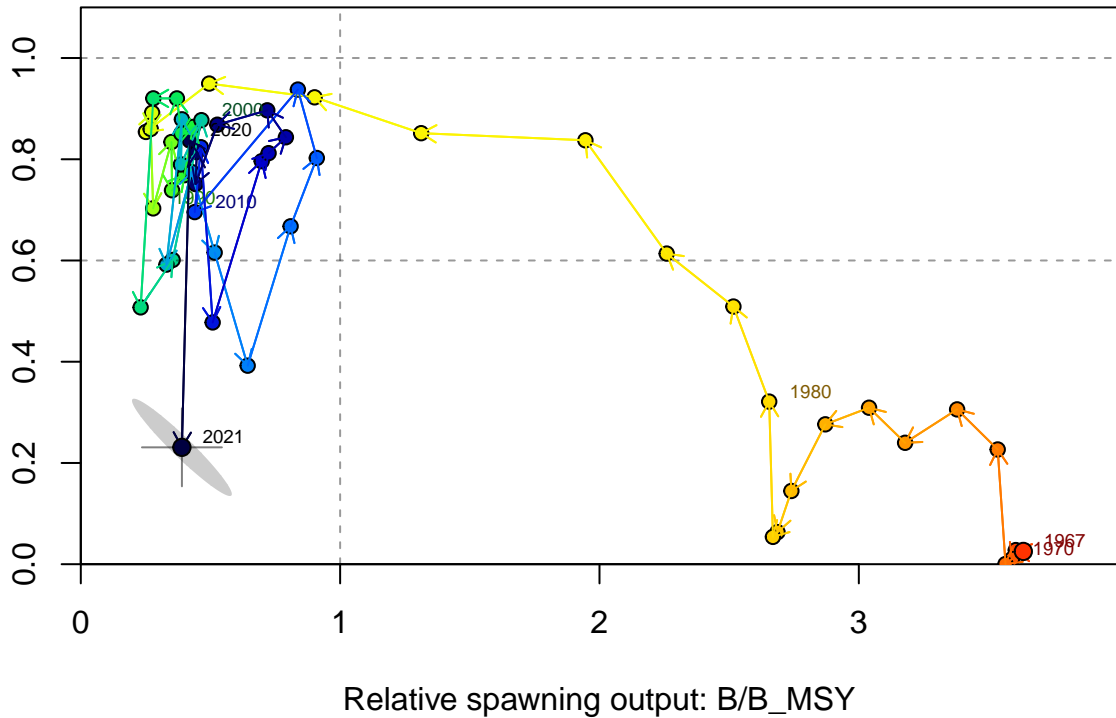


Fishing intensity: 1-SPR

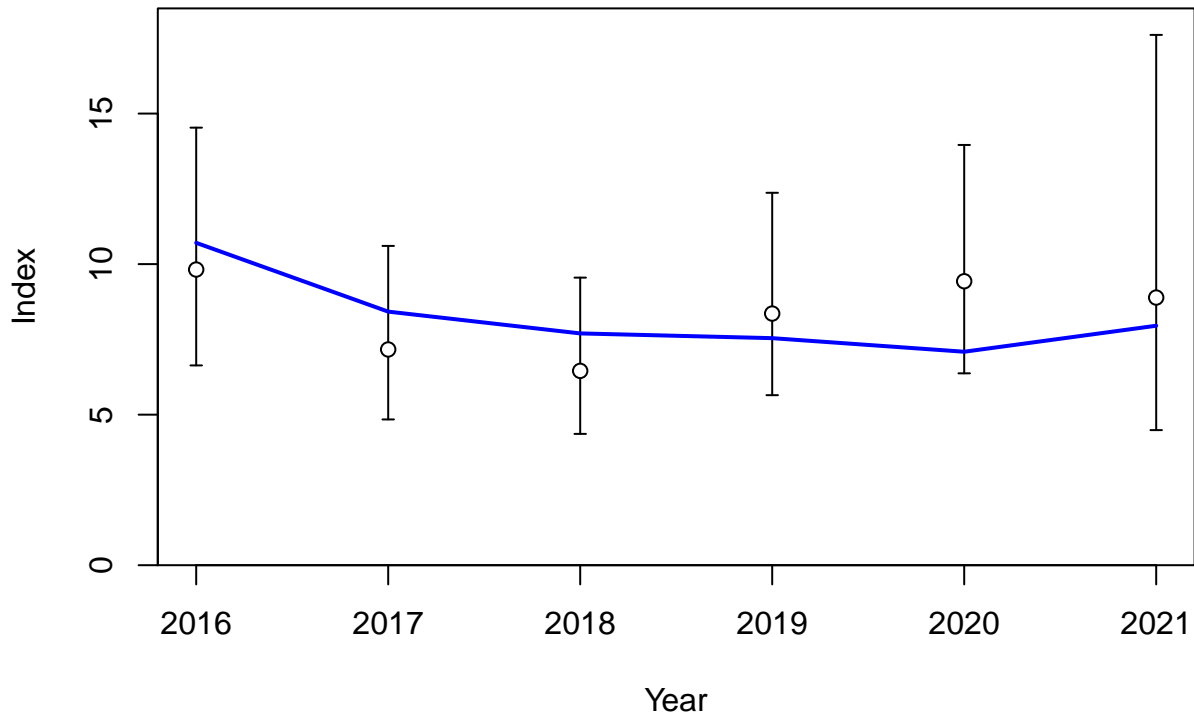


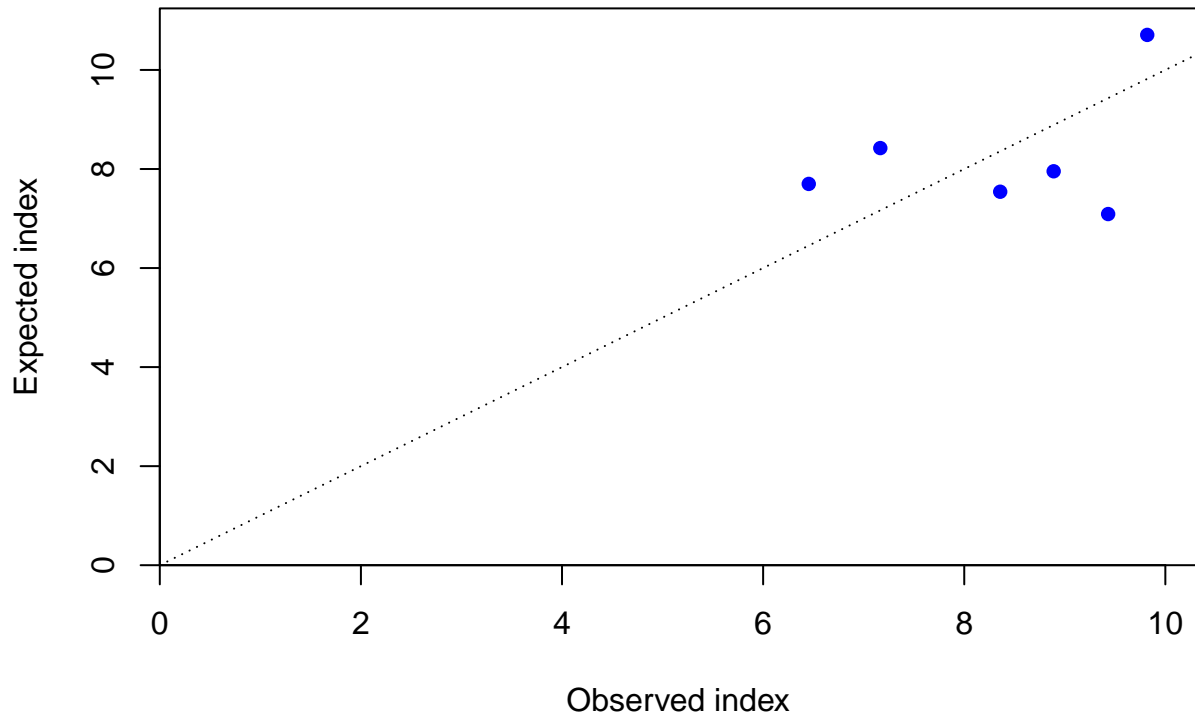


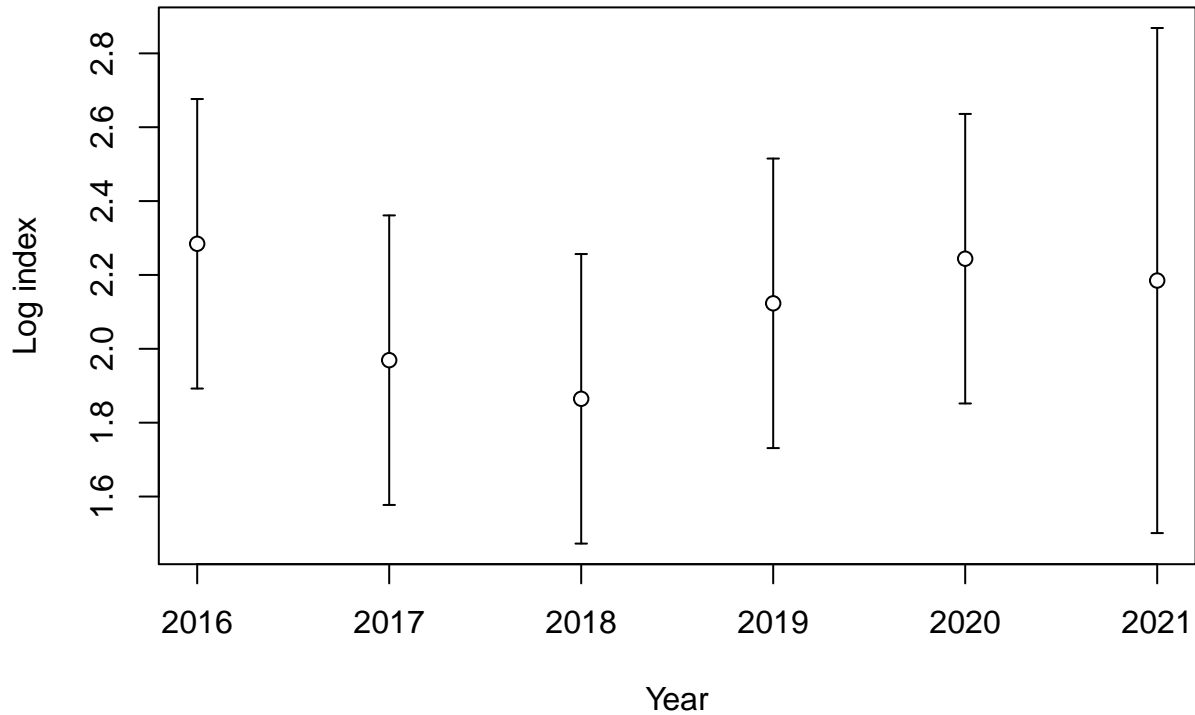
Fishing intensity: 1-SPR

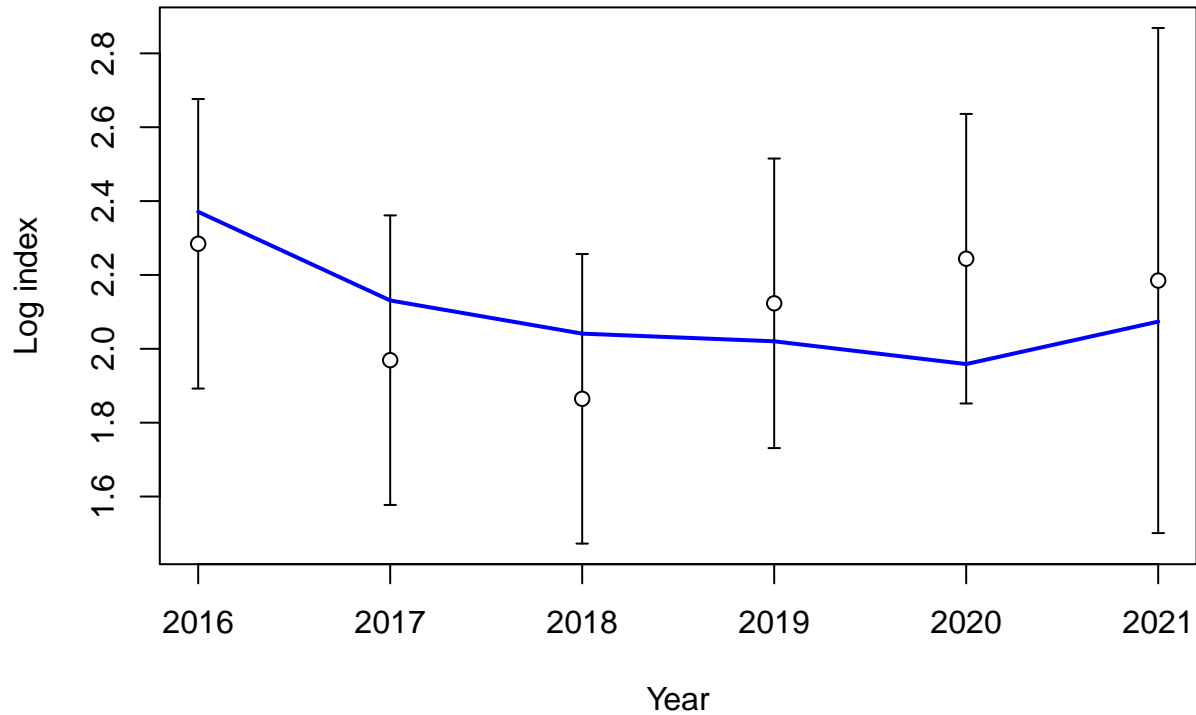


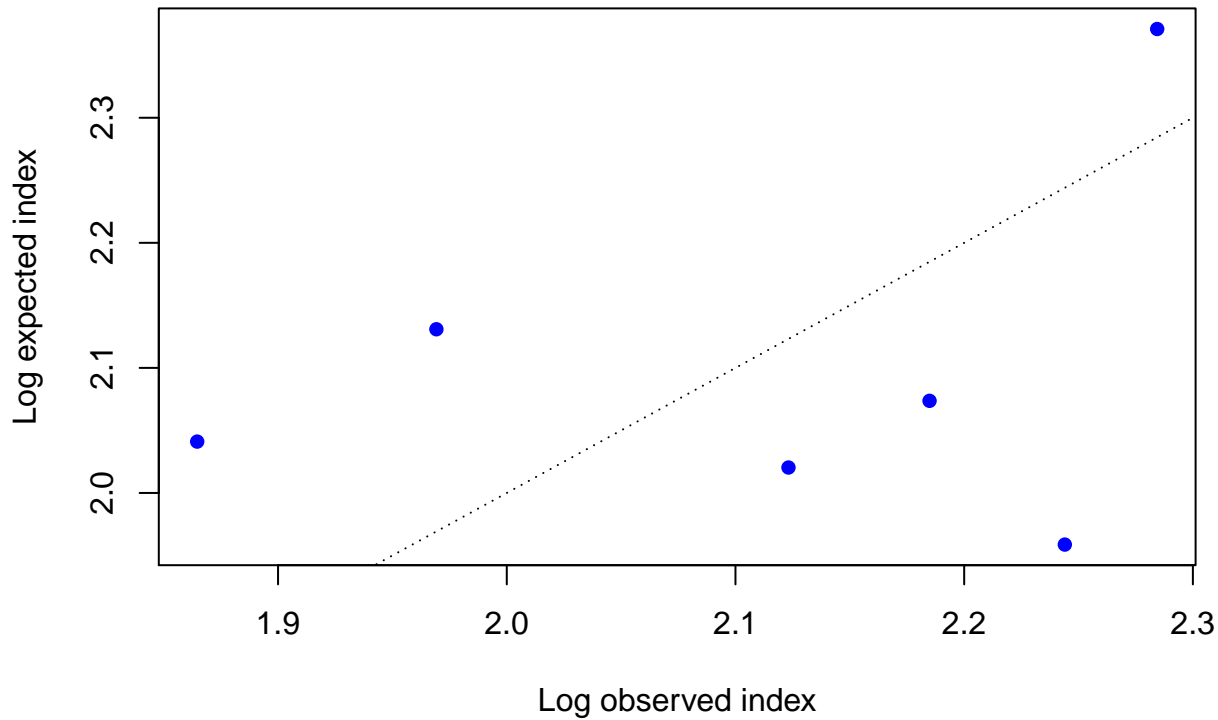


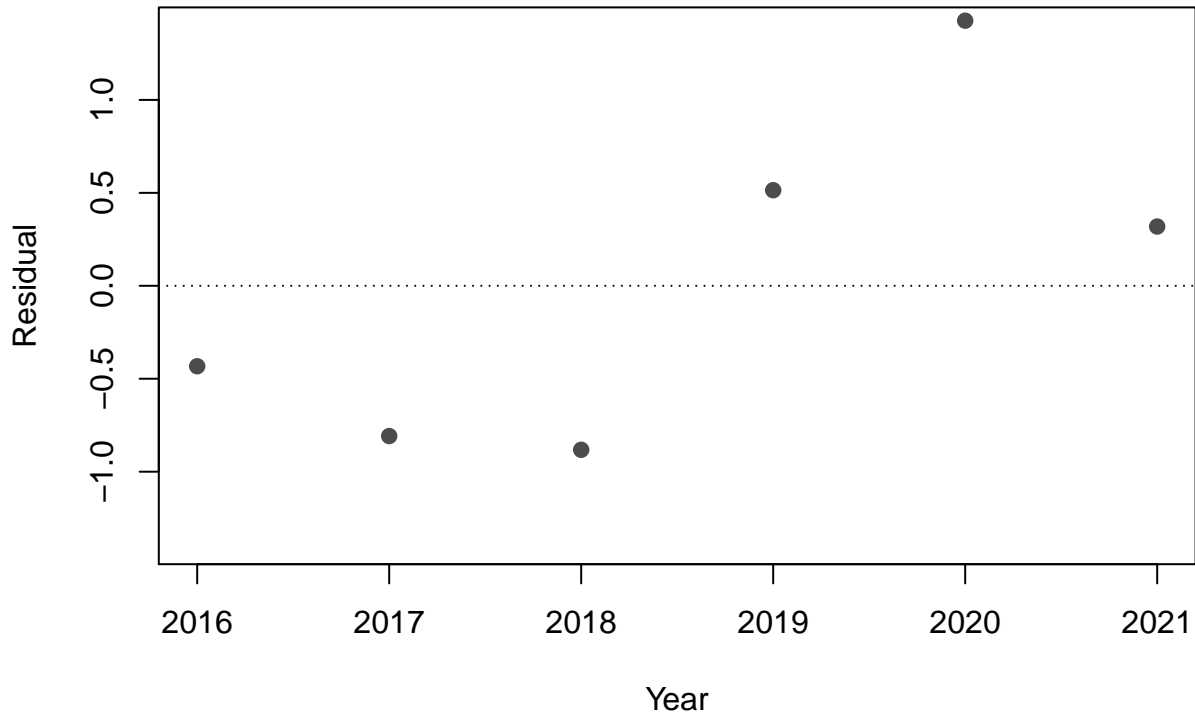




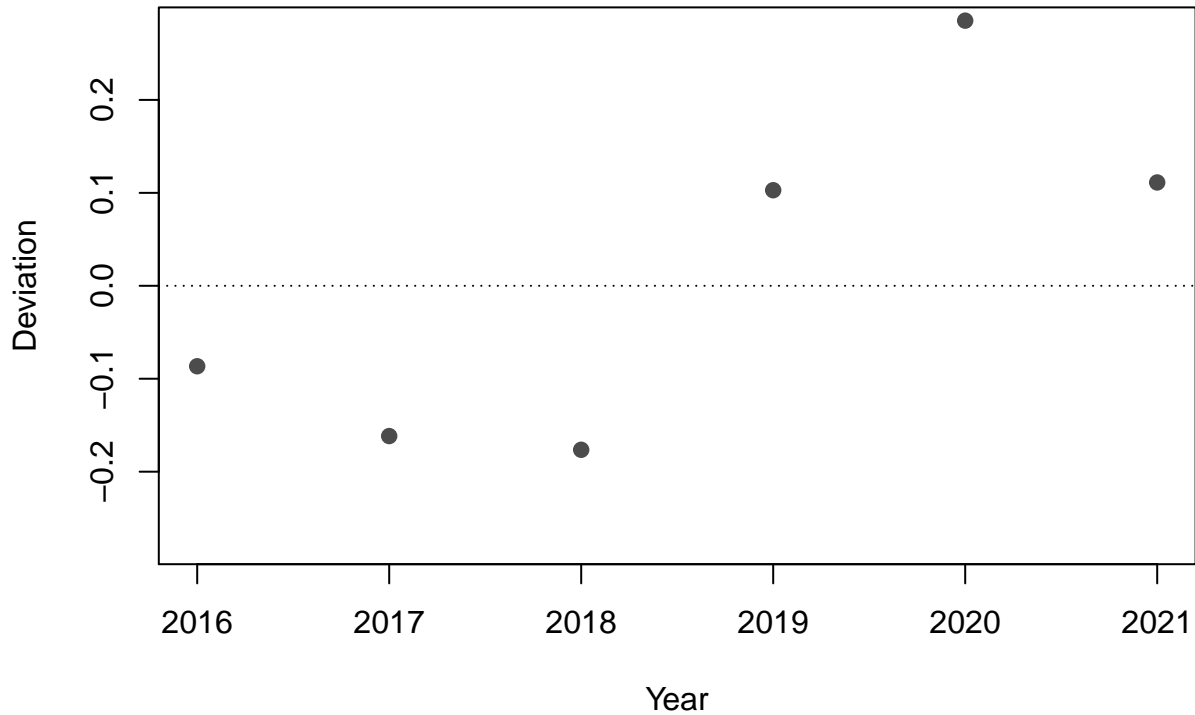




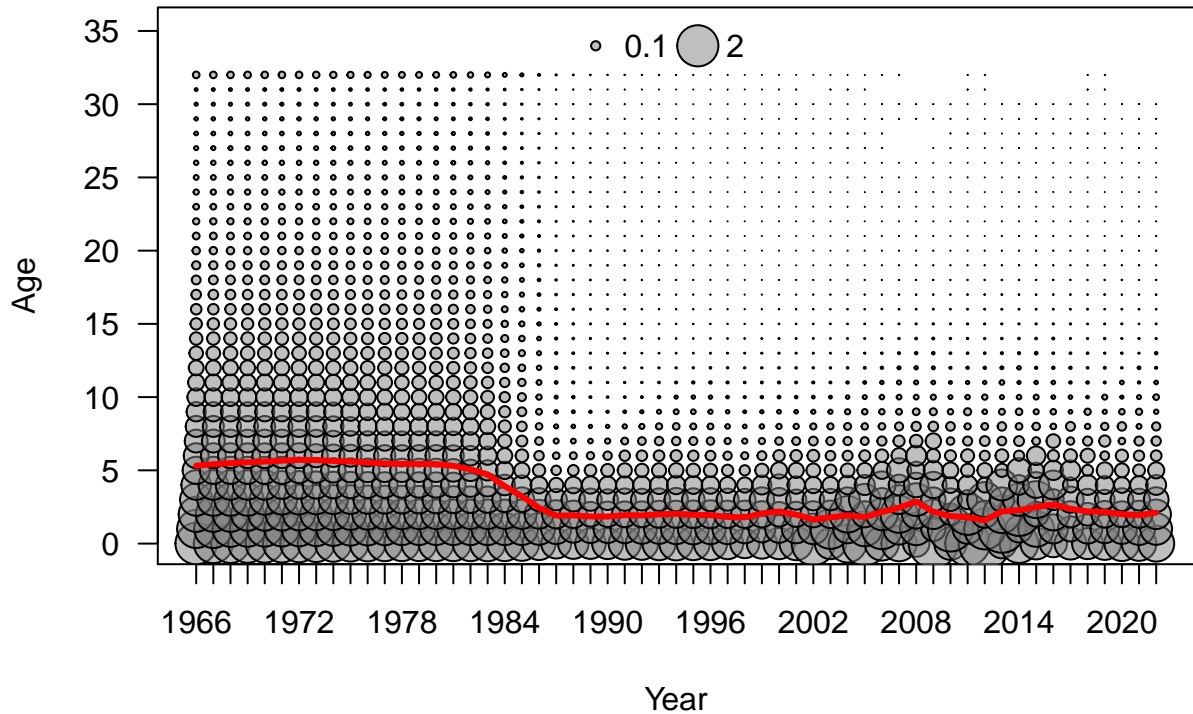


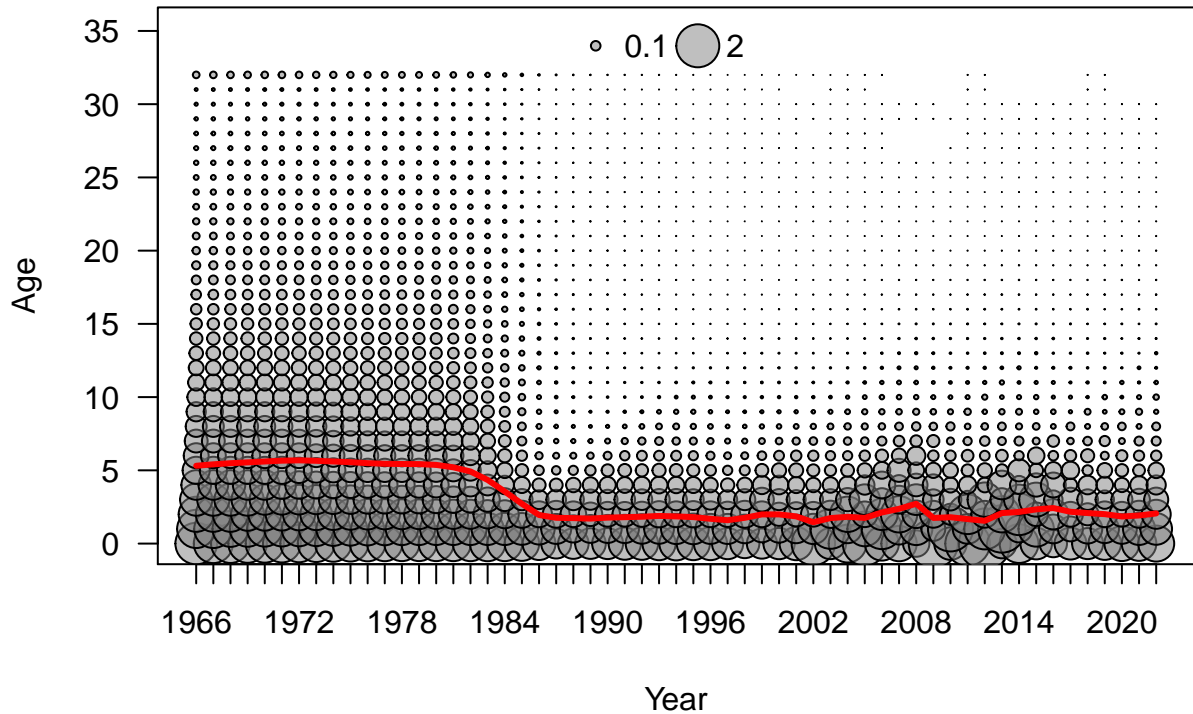


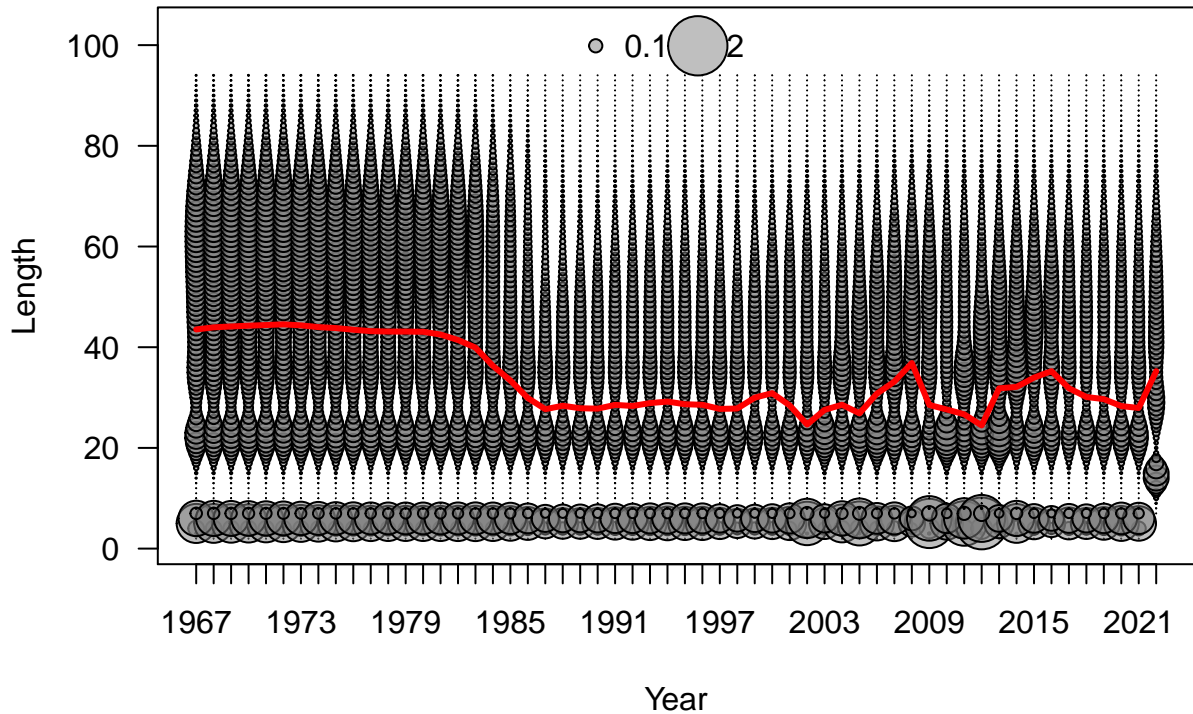


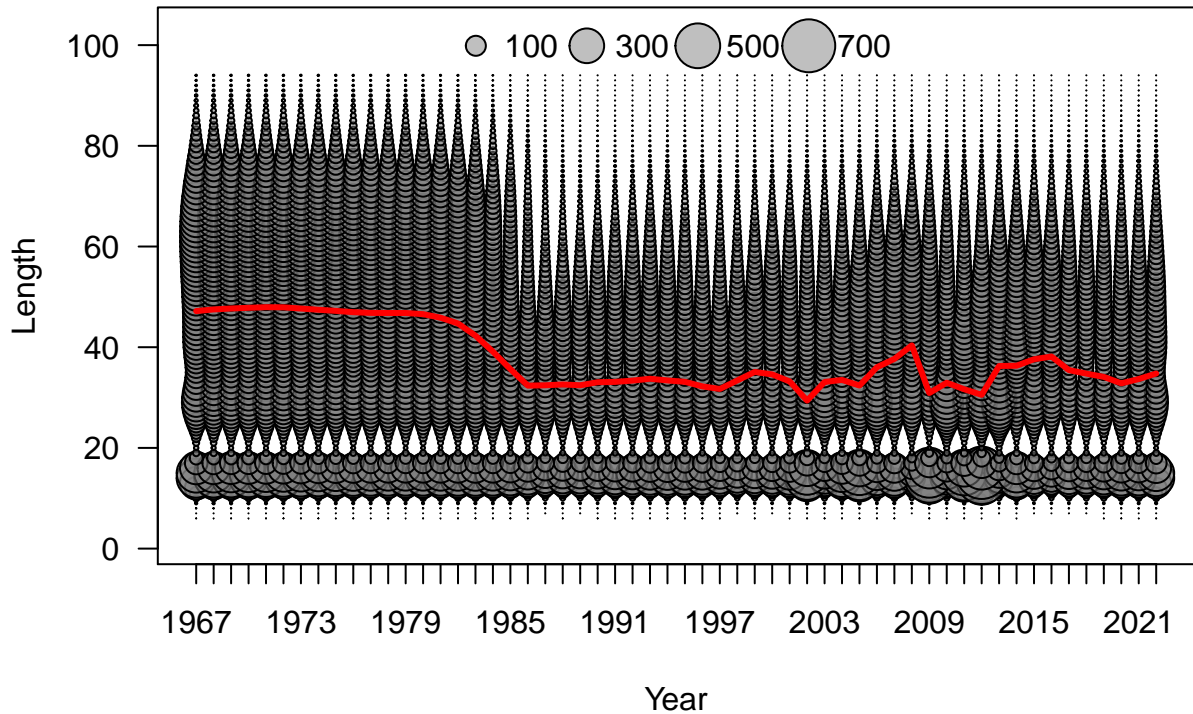


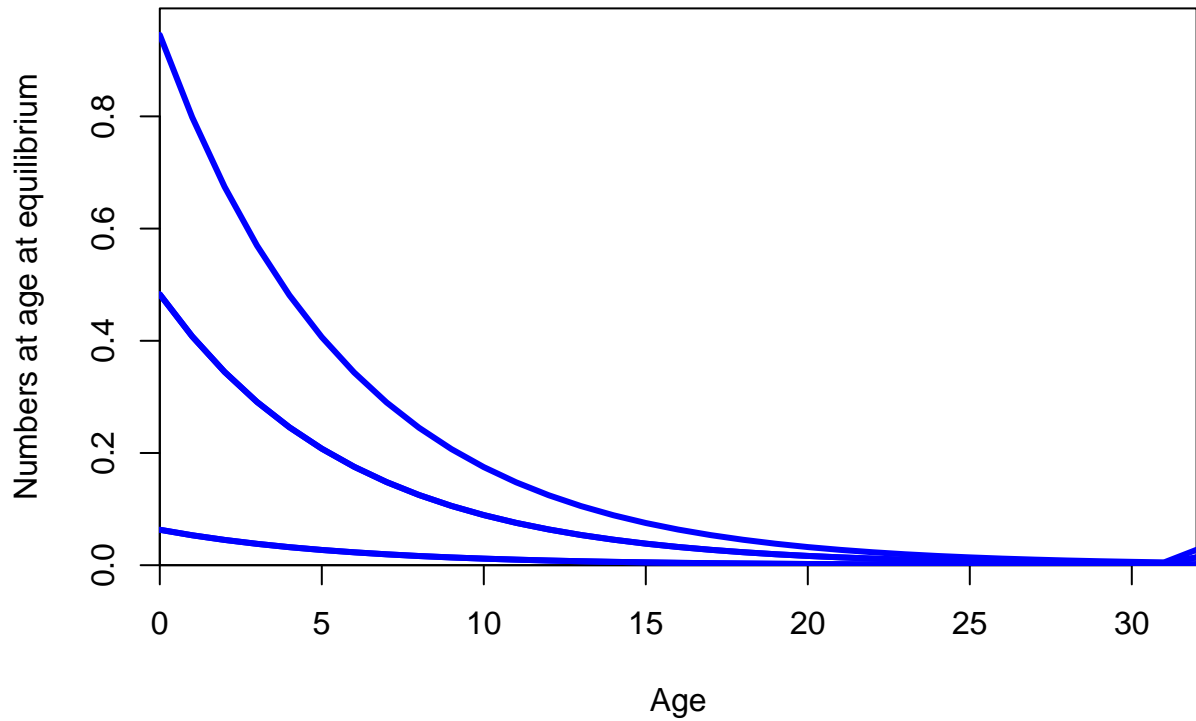


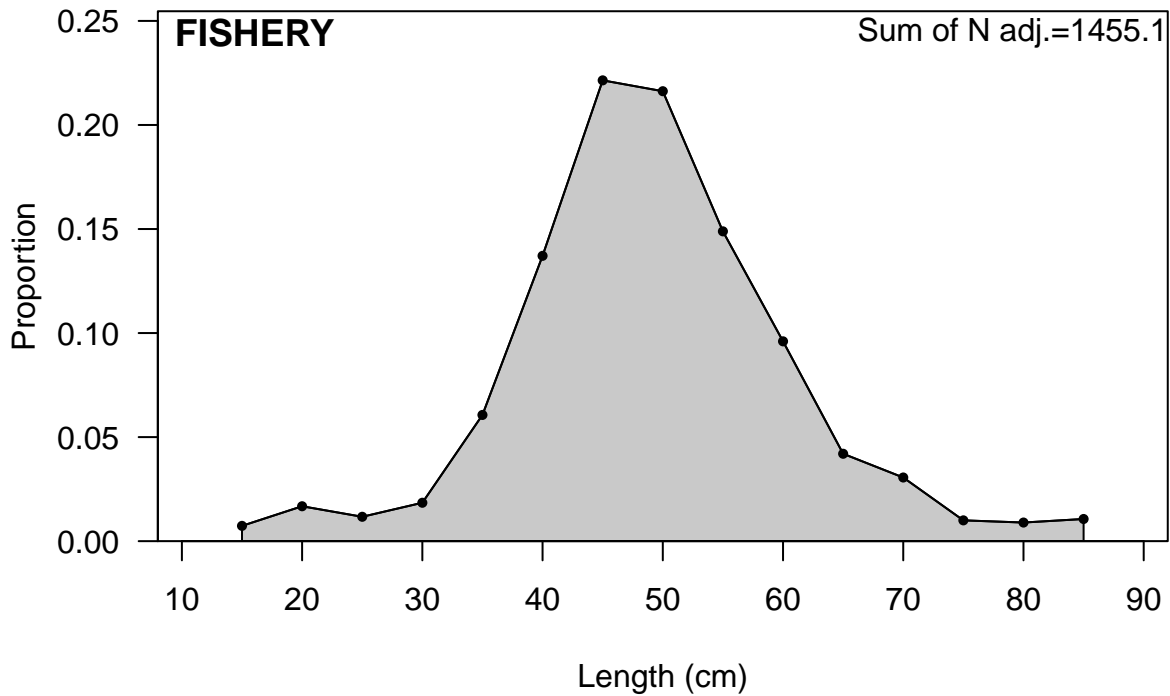




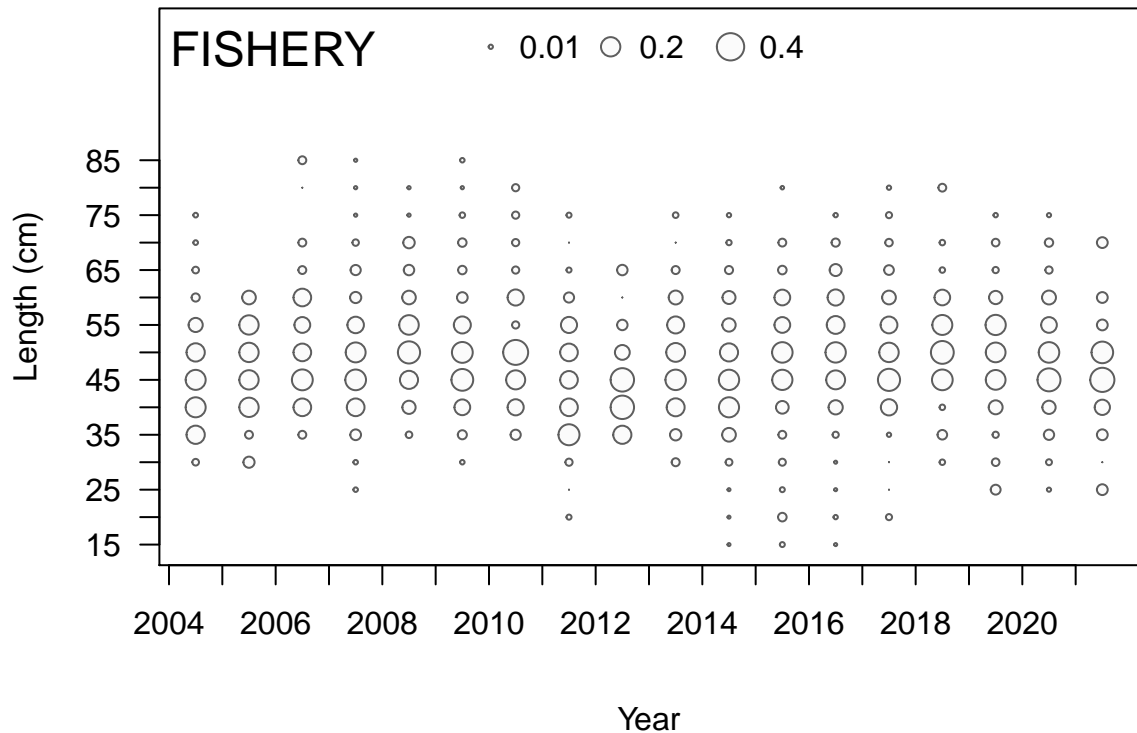


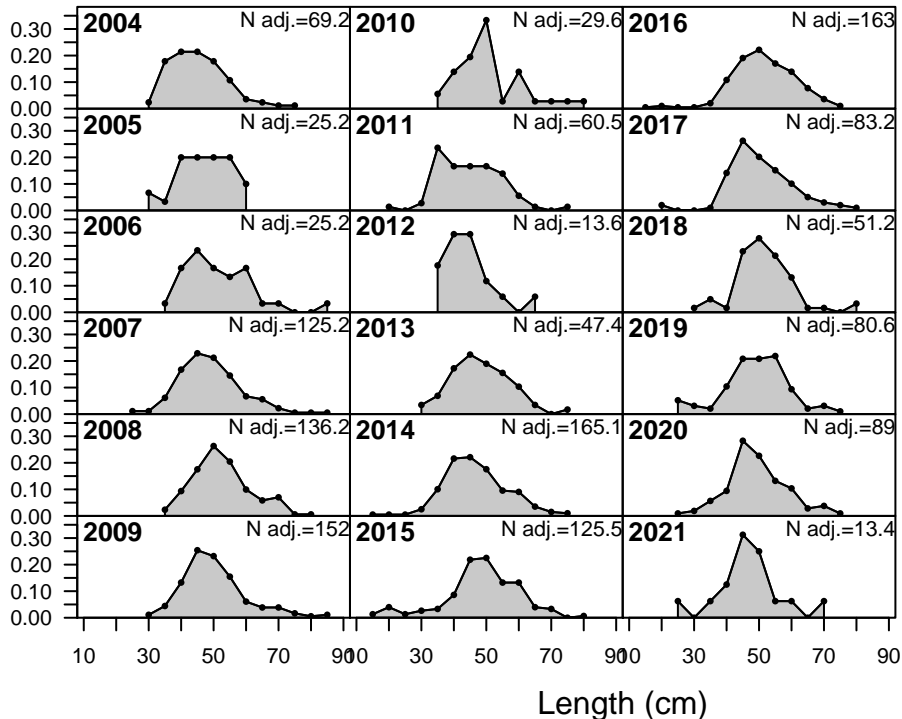


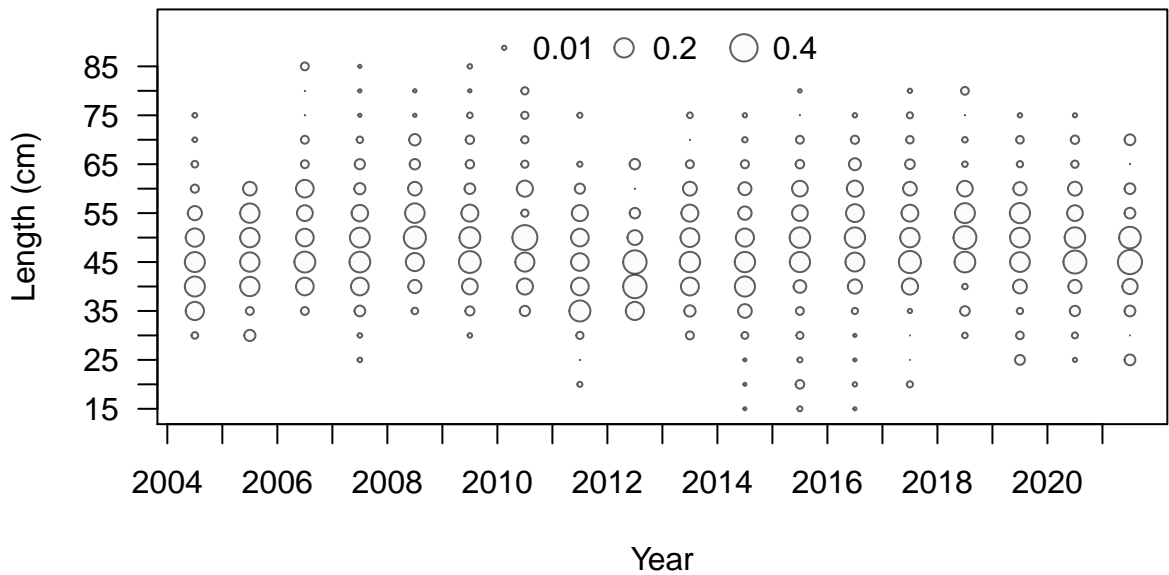




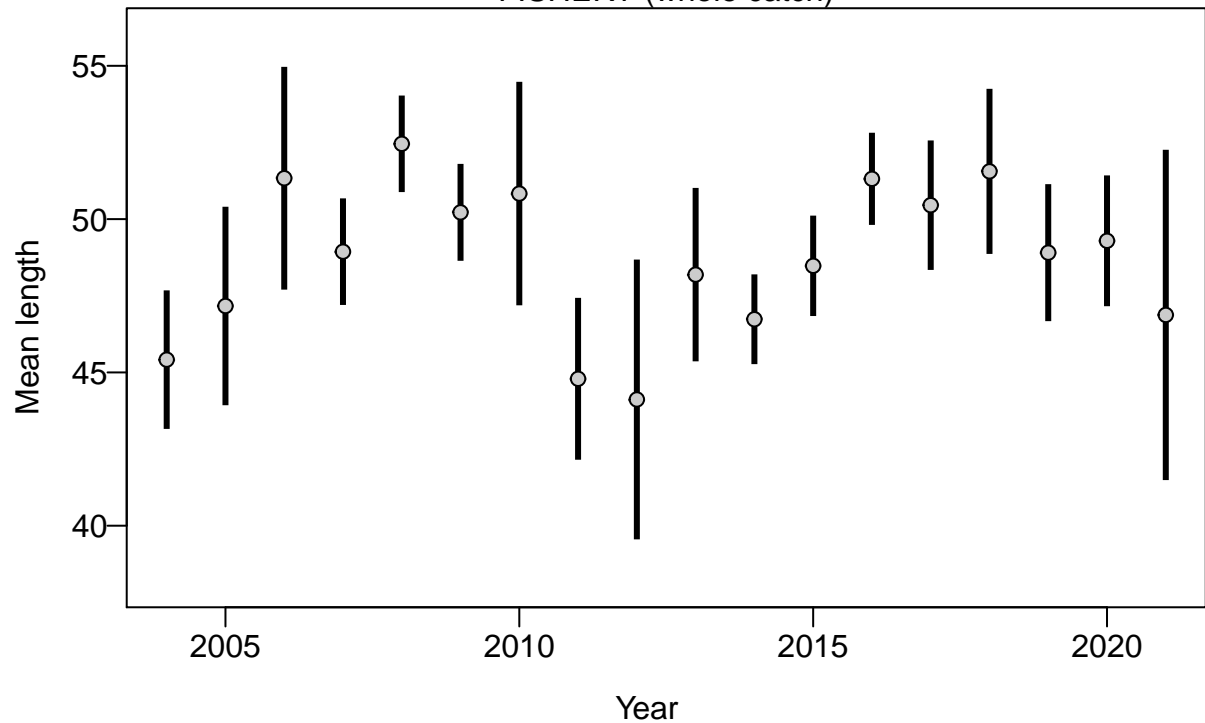


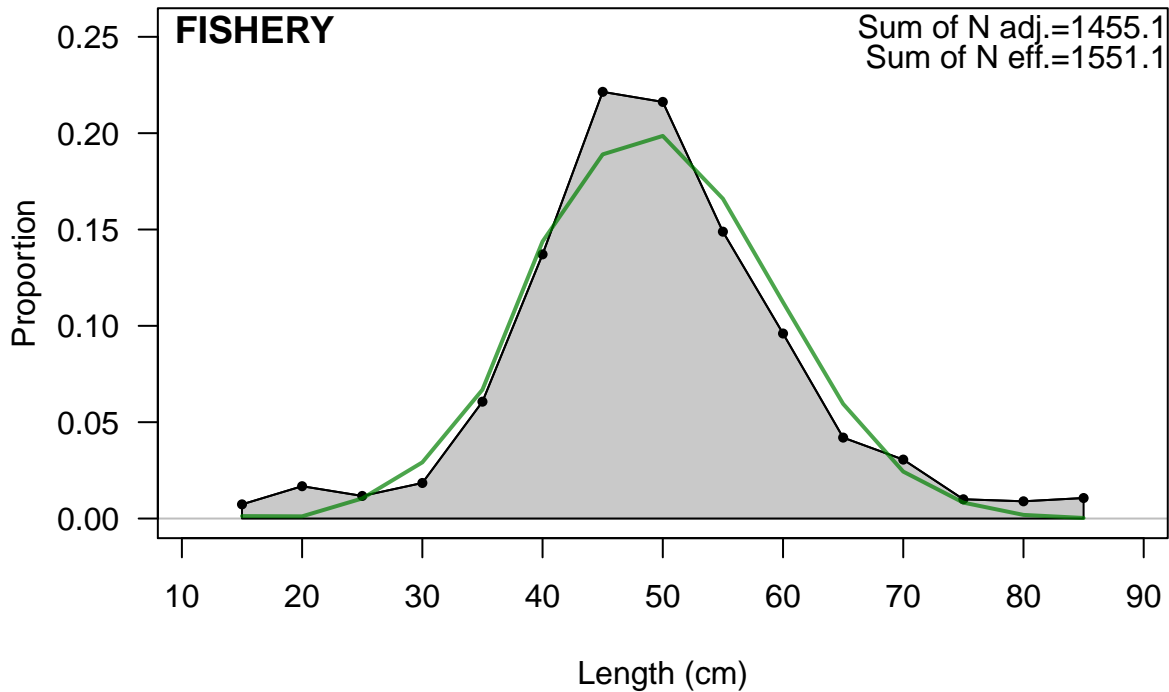


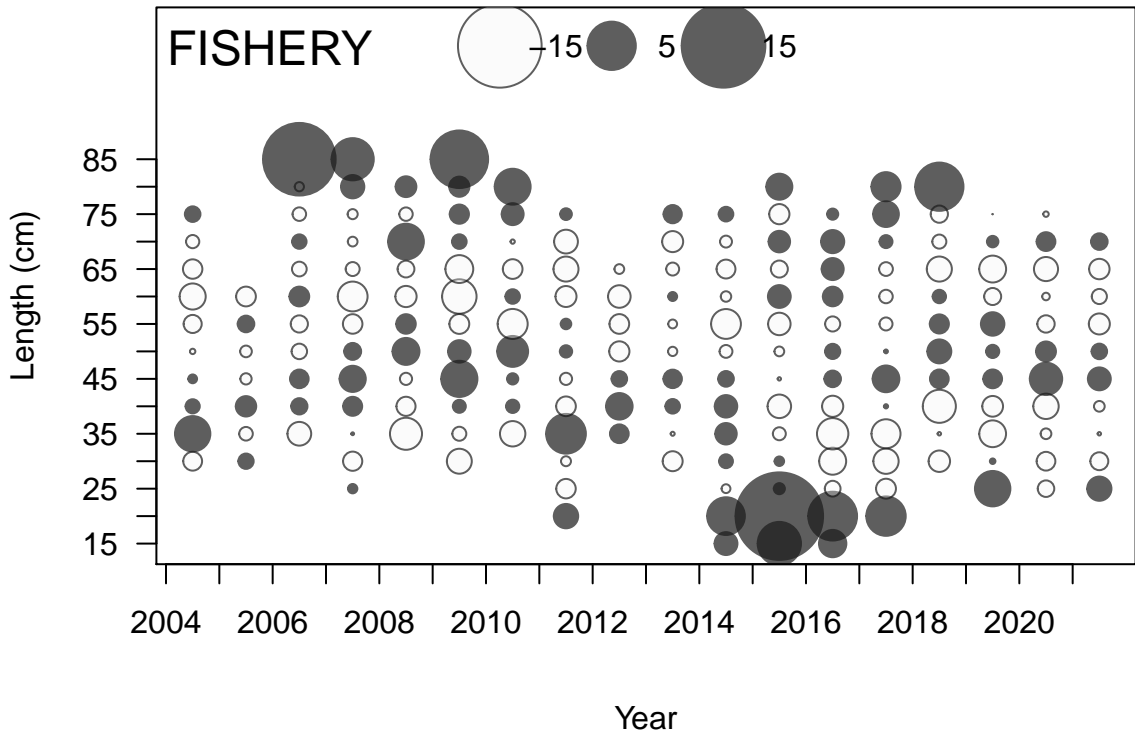


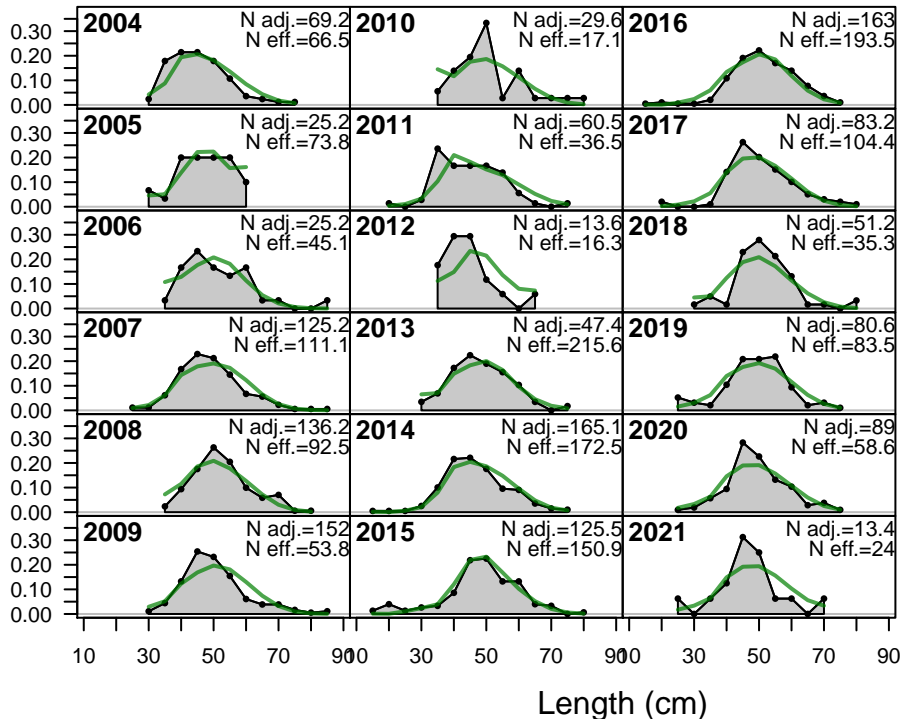


FISHERY (whole catch)

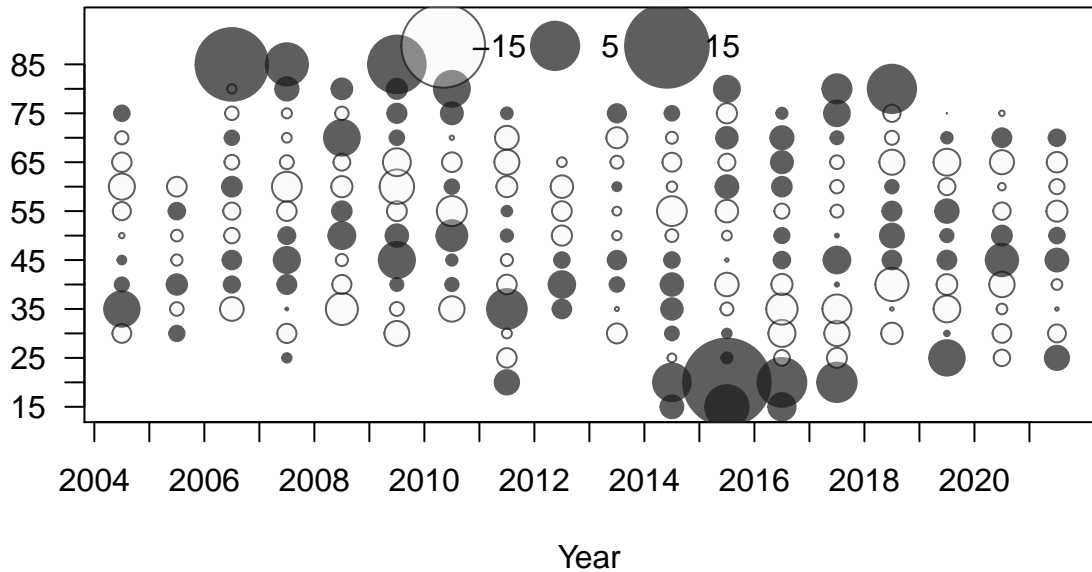






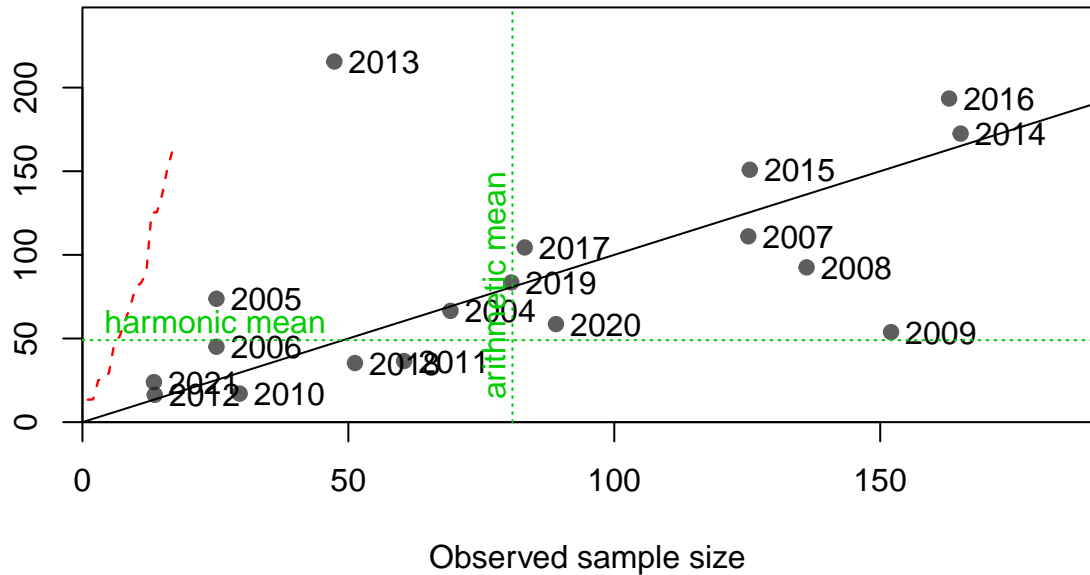


Length (cm)

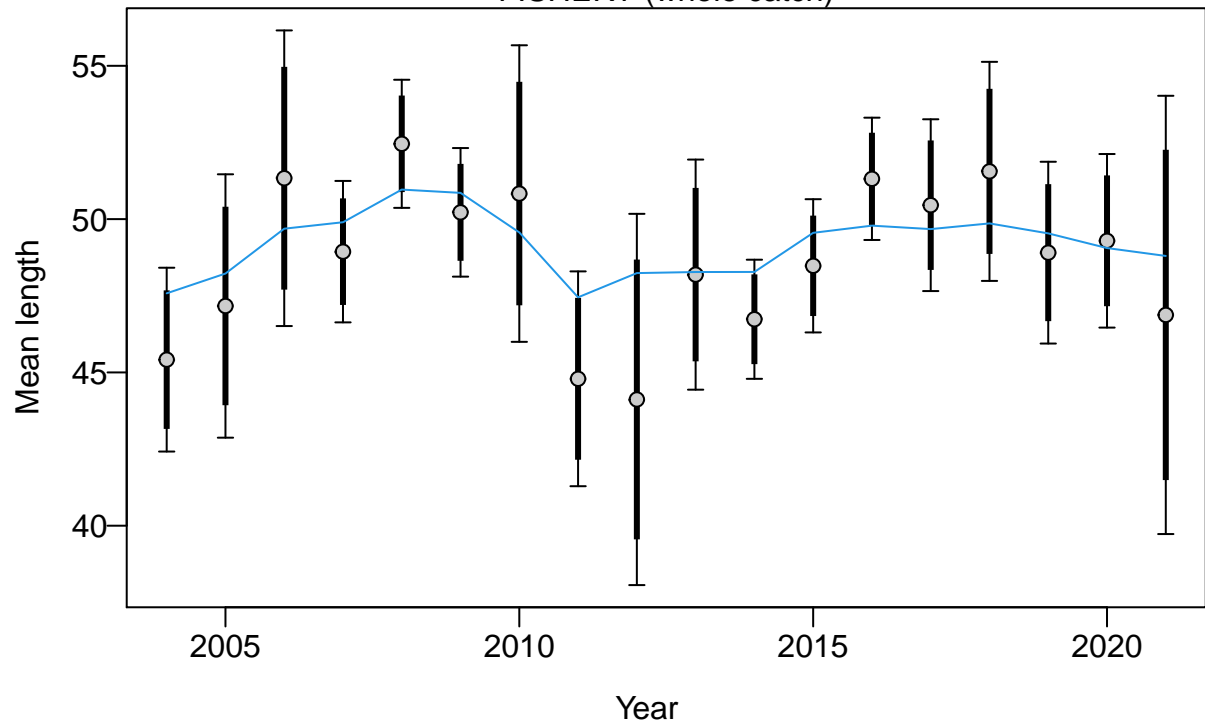


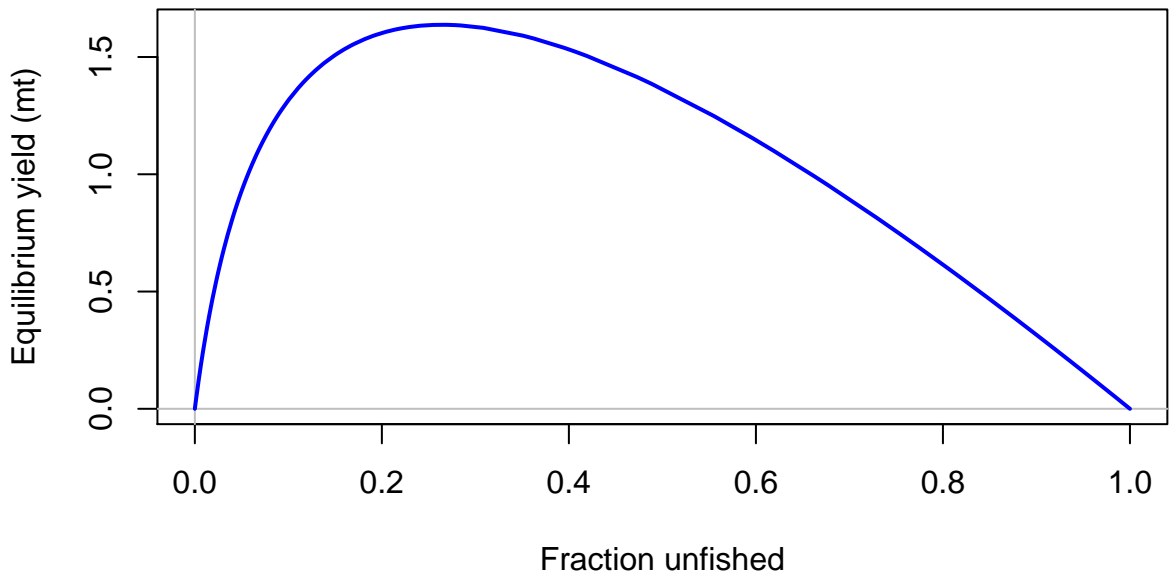


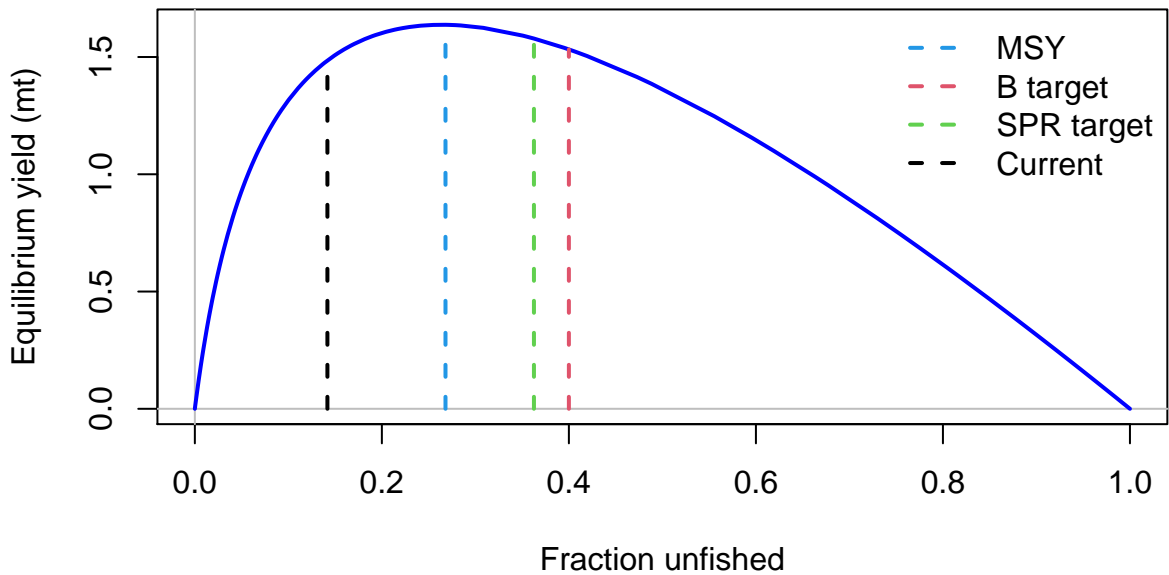
Effective sample size

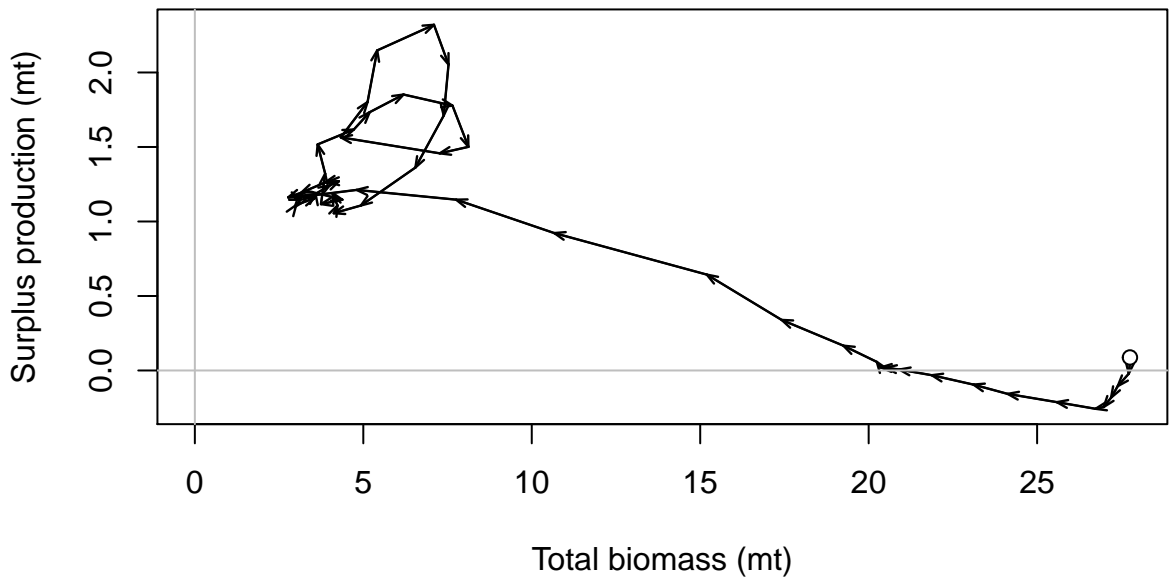


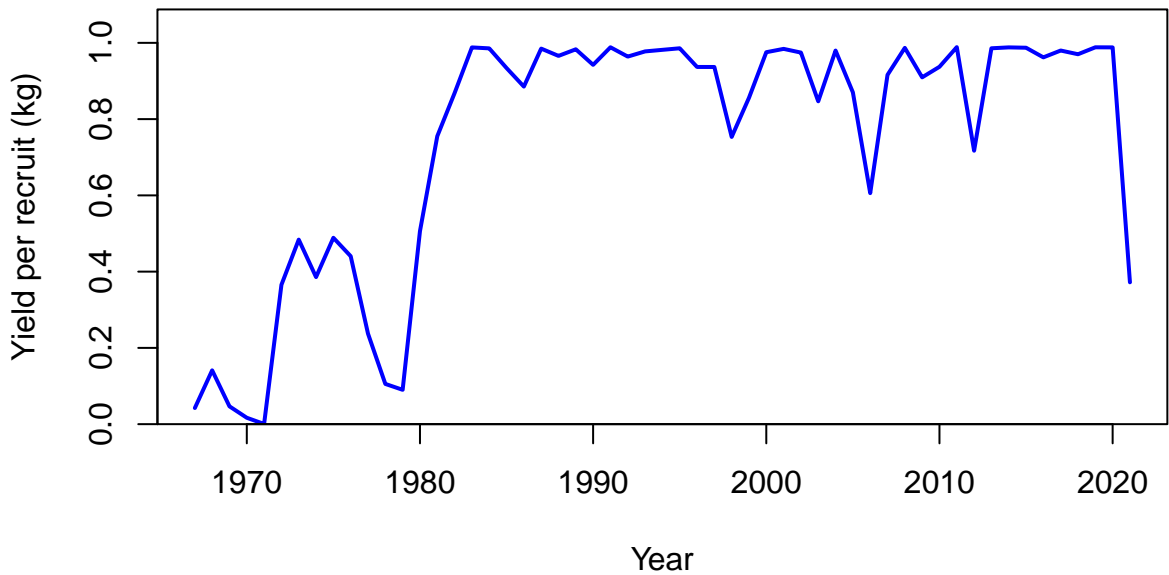
FISHERY (whole catch)

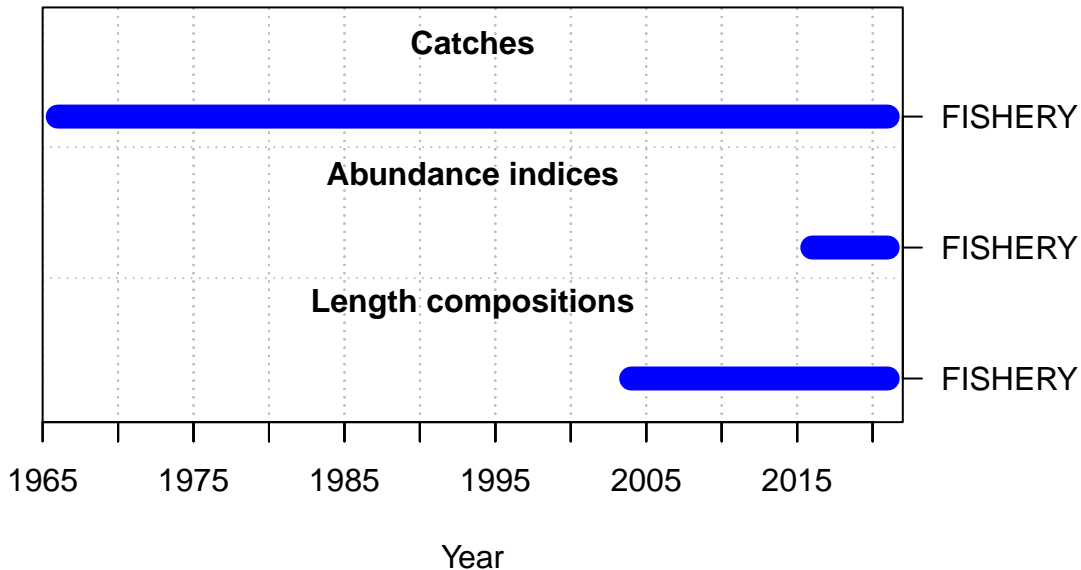


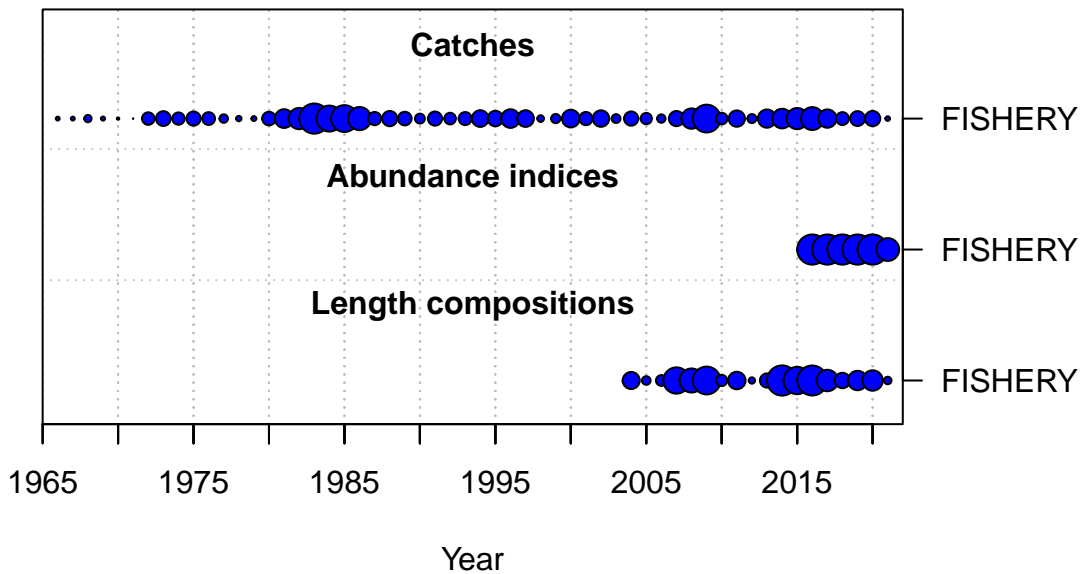










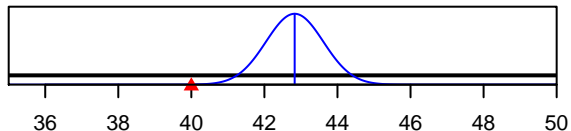




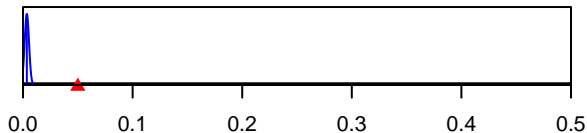
SR\_LN(R0)



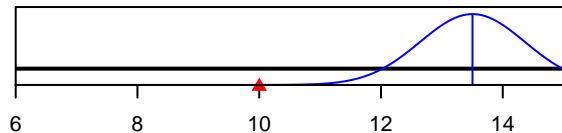
Size\_inflection\_FISHERY(1)



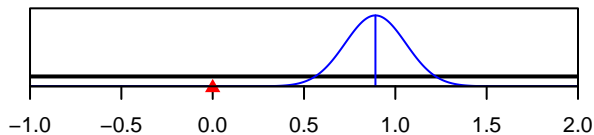
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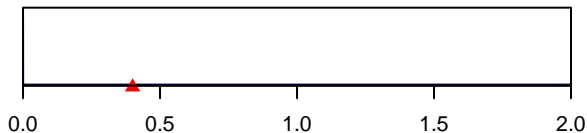
Size\_95%width\_FISHERY(1)



LnQ\_base\_FISHERY(1)



Q\_extraSD\_FISHERY(1)



Parameter value