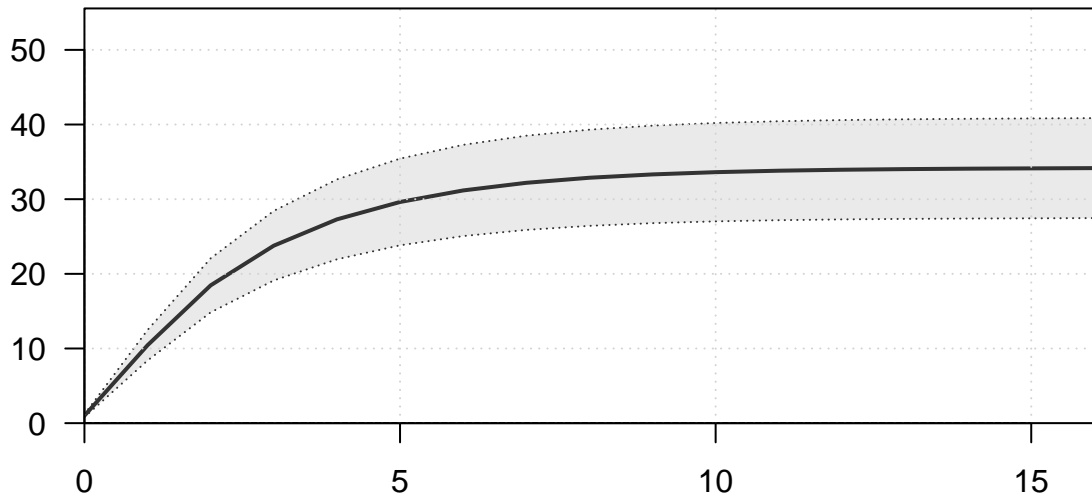
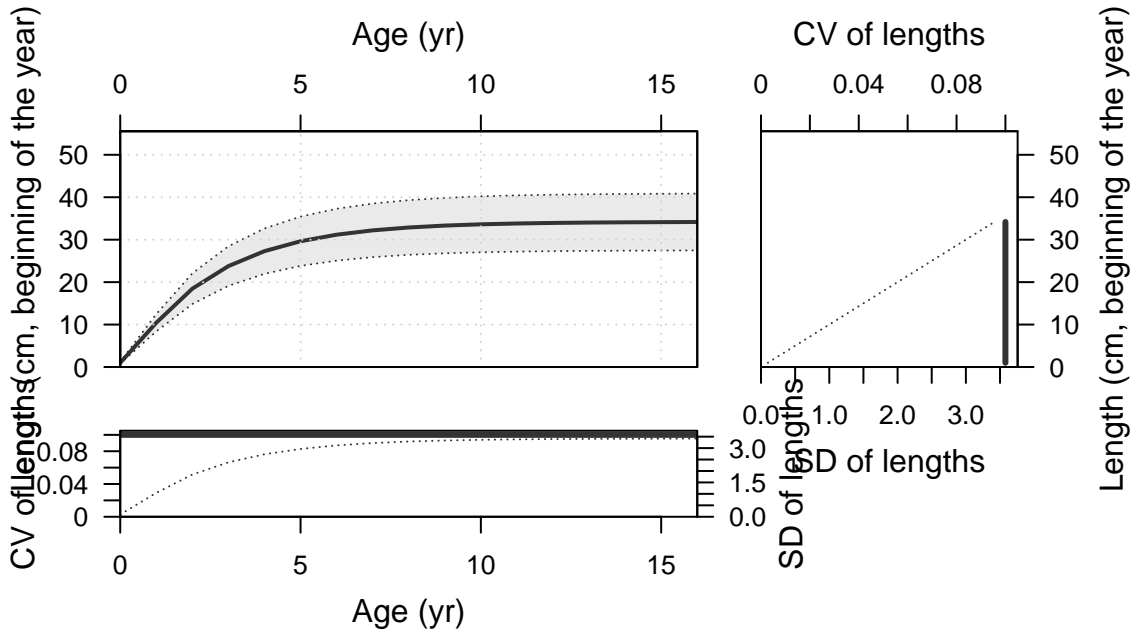


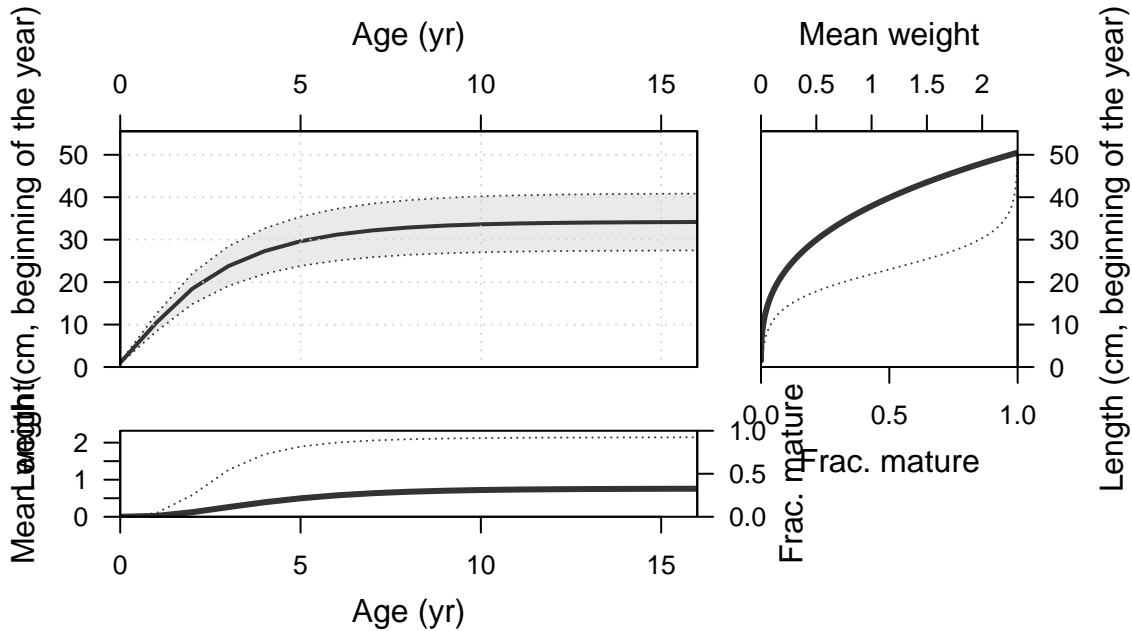
Plots created using the 'r4ss' package in R  
Stock Synthesis version: 3.30.19.0  
StartTime: Wed Jun 29 13:32:25 2022  
Data\_File: data.ss  
Control\_File: control.ss

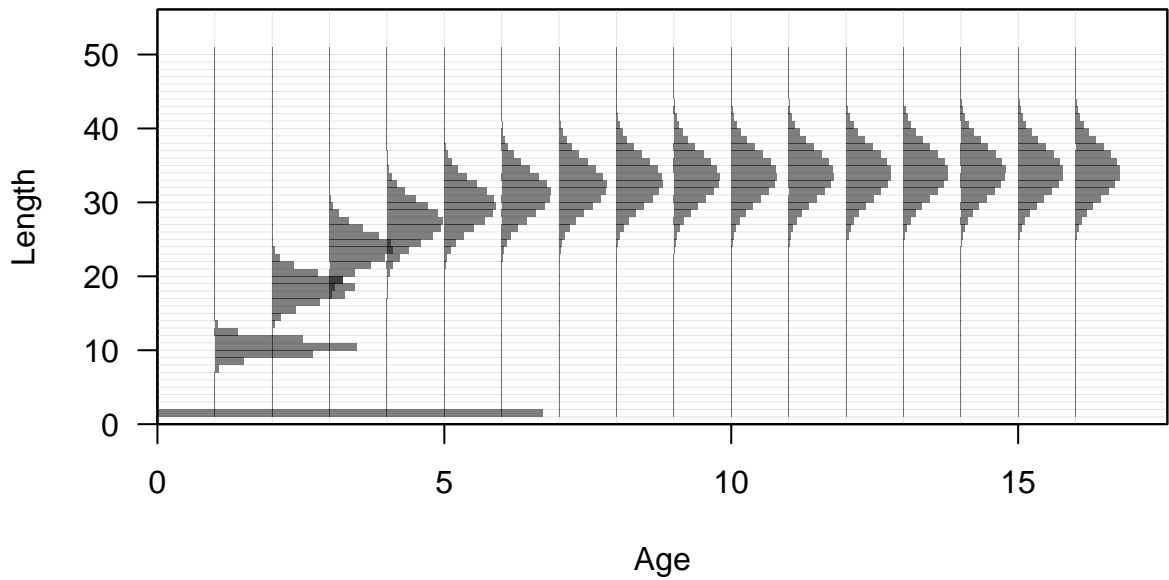
Length (cm, beginning of the year)

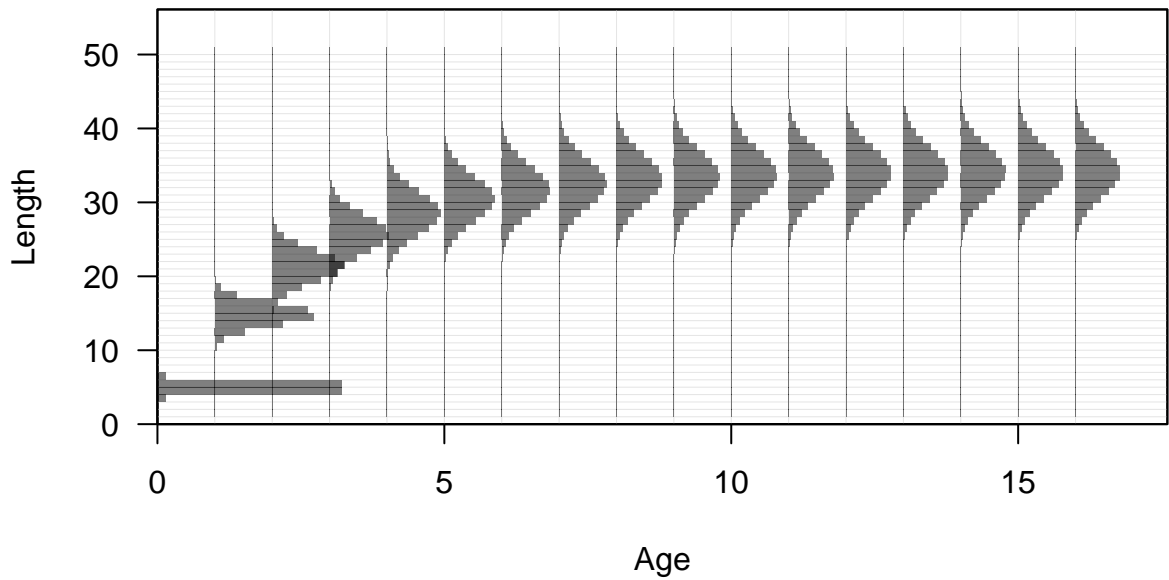


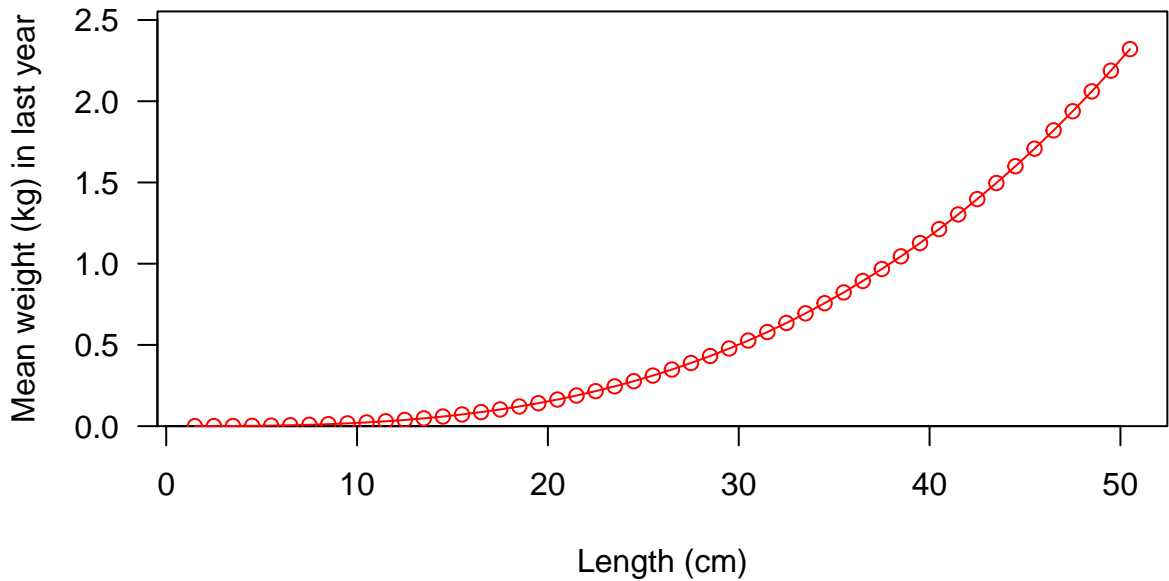
Age (yr)

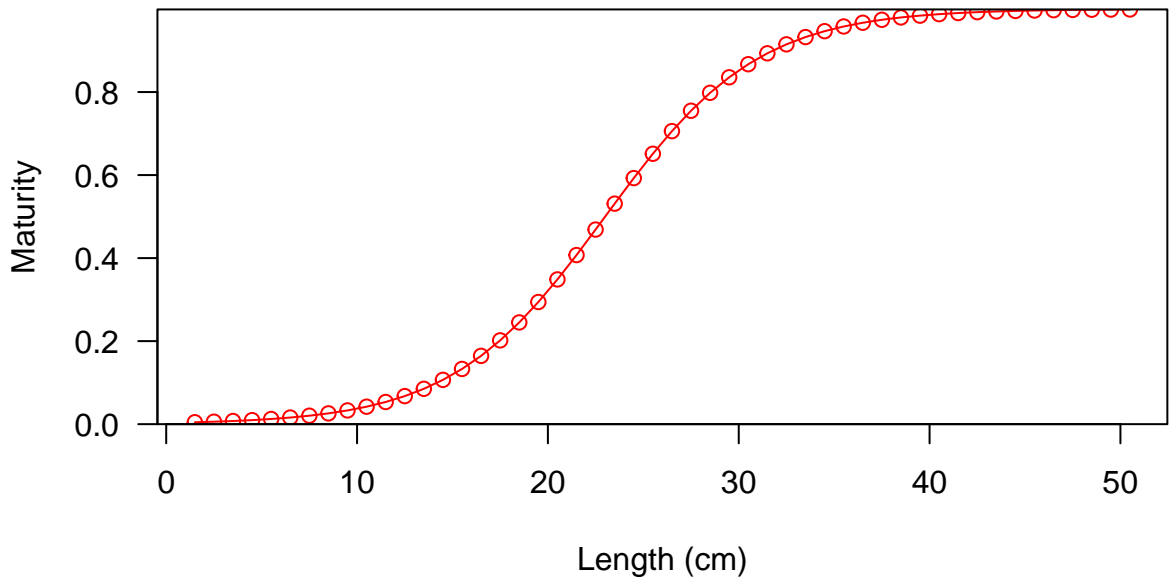




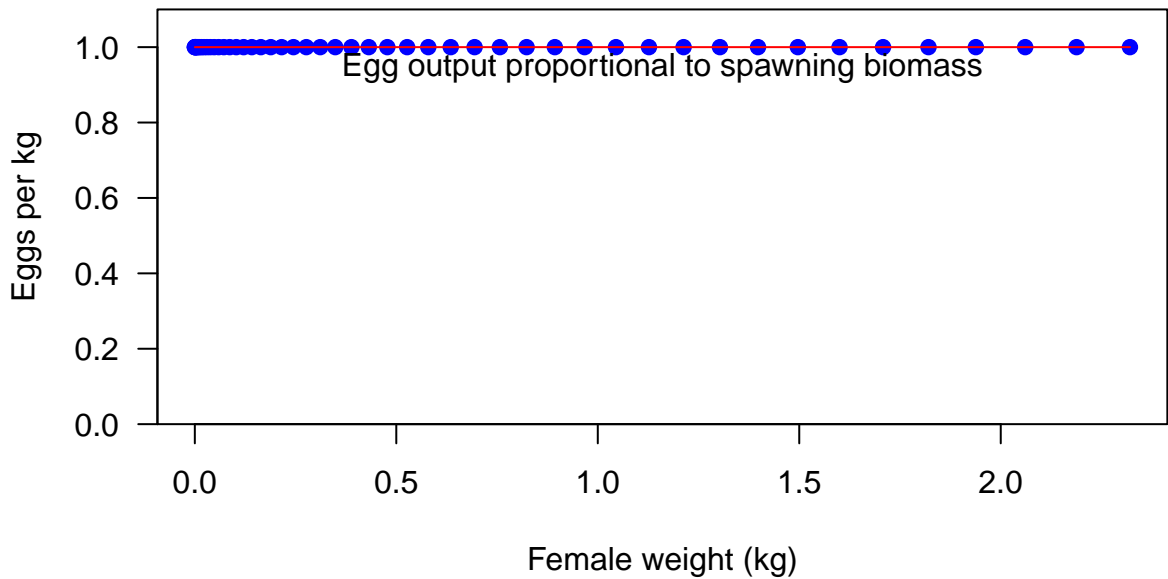


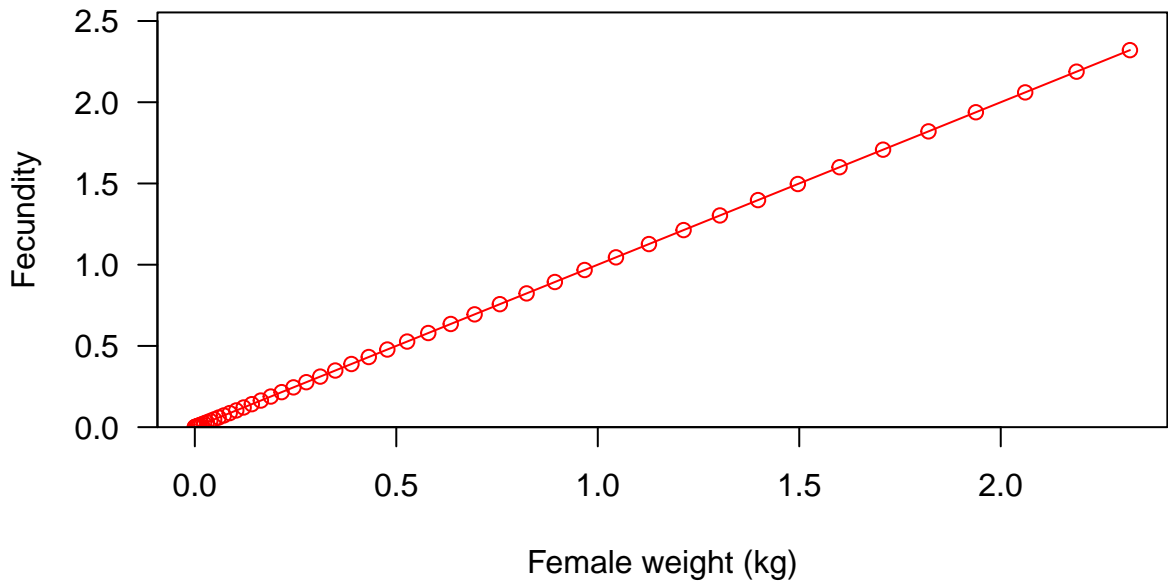


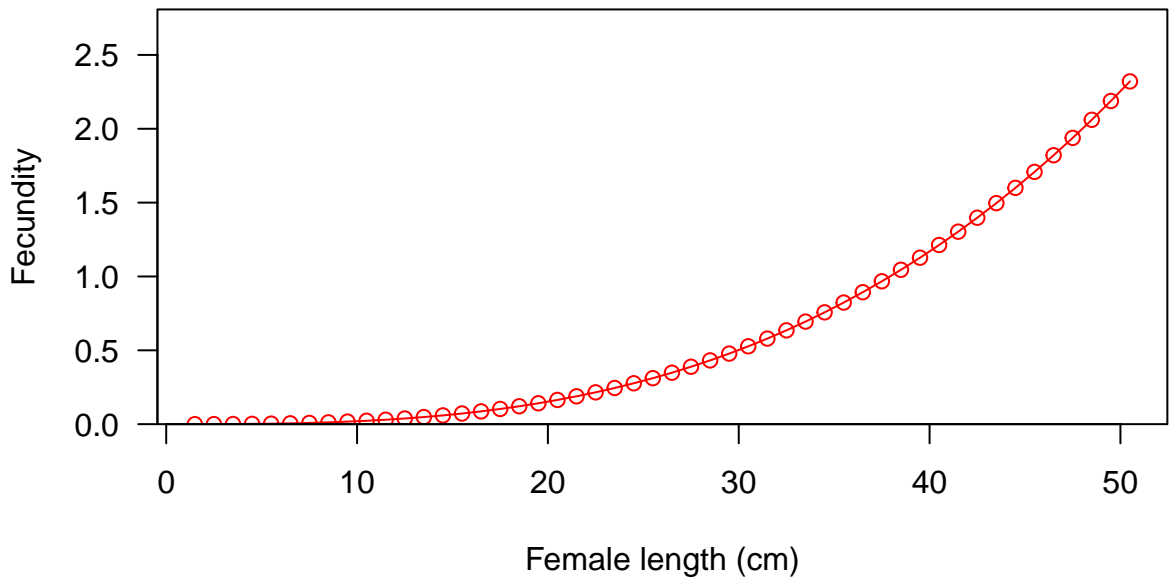


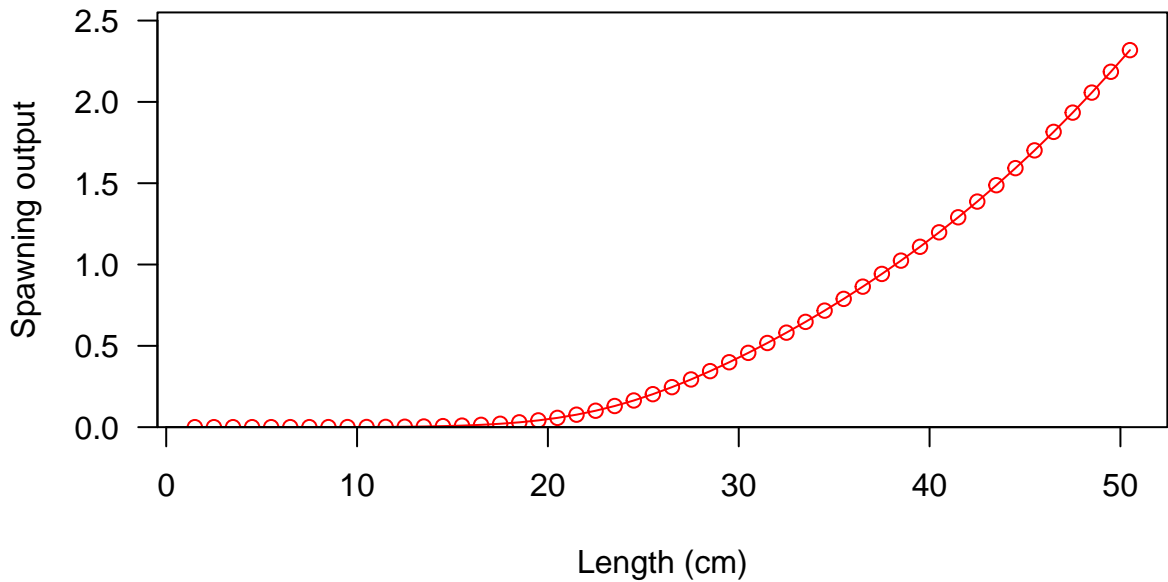


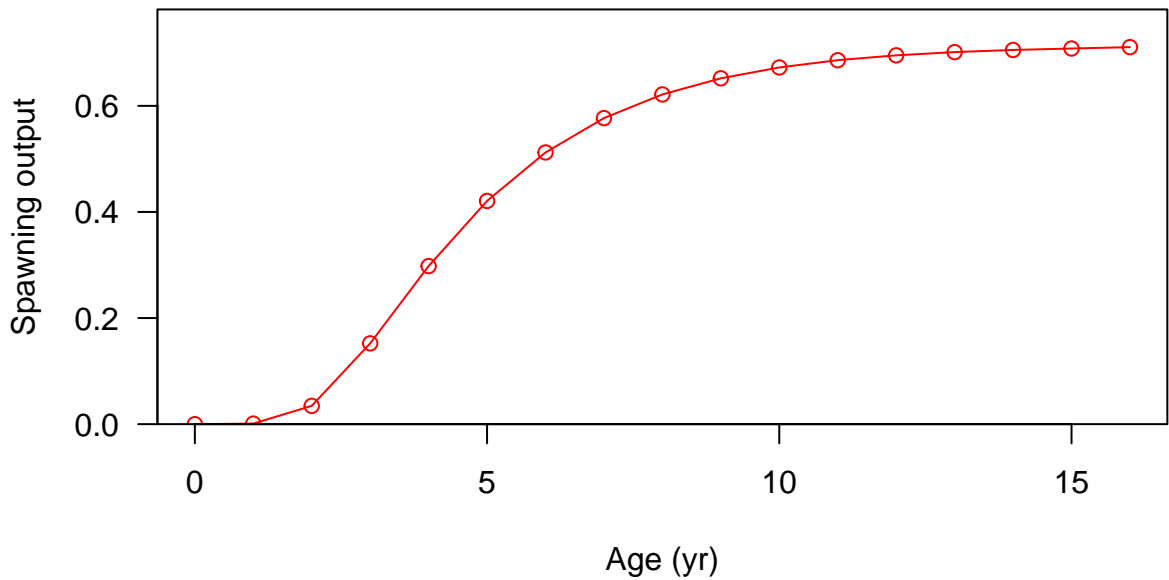




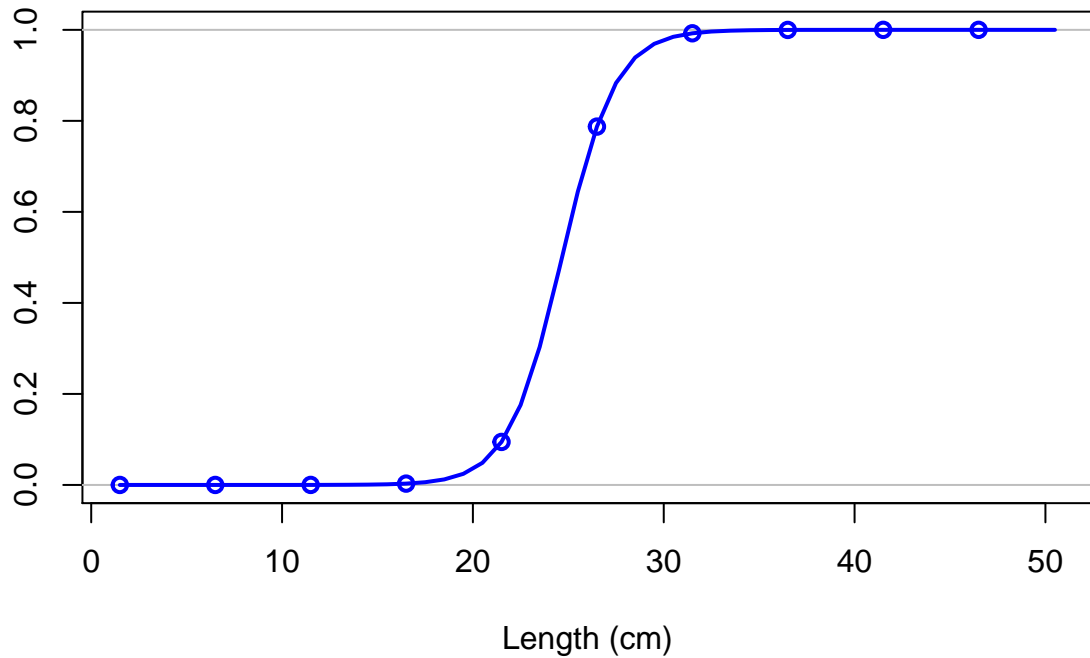




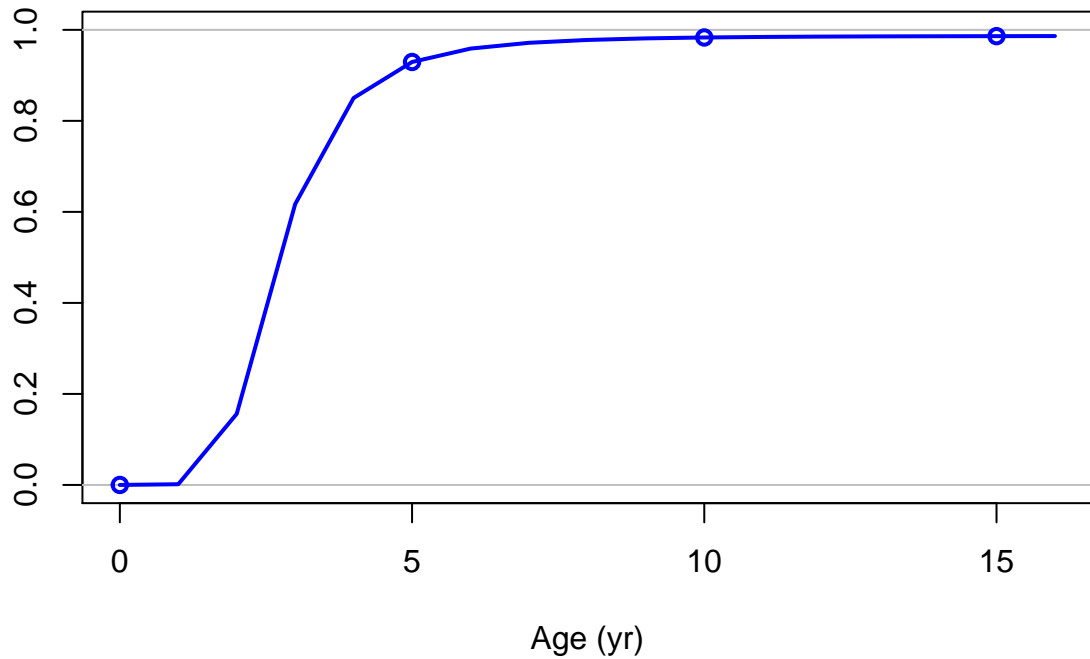




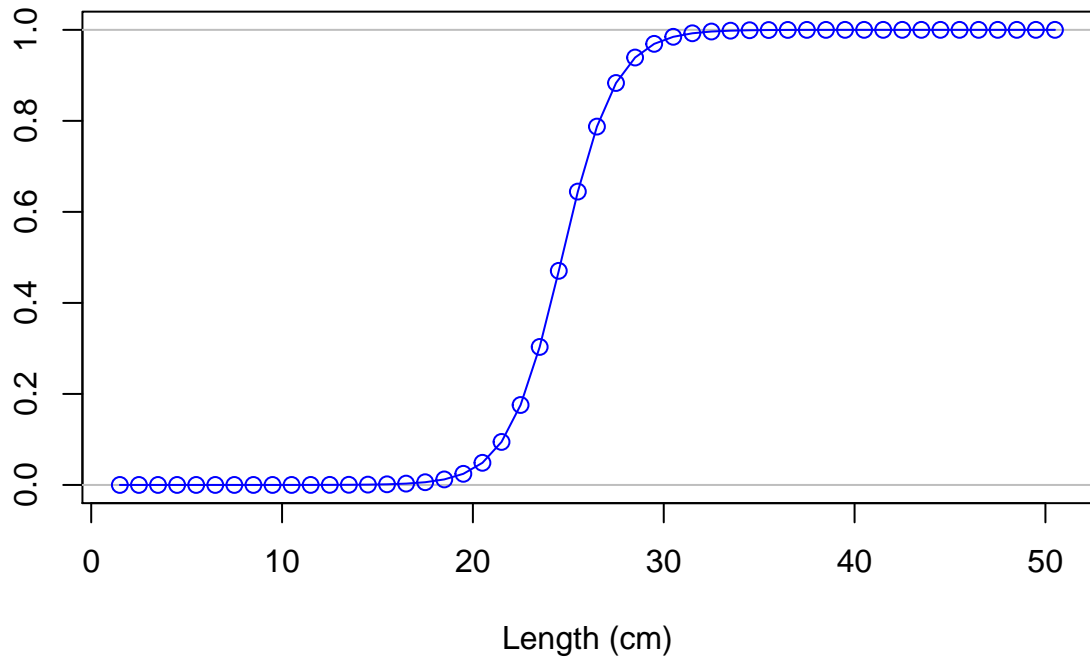
Selectivity



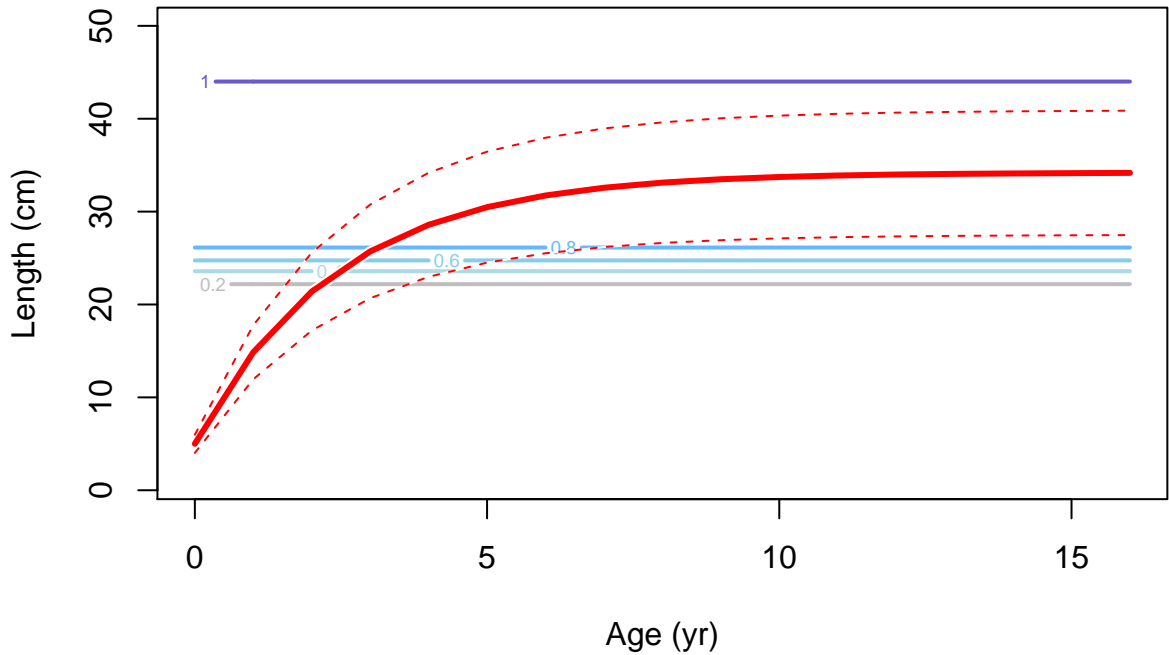
Selectivity

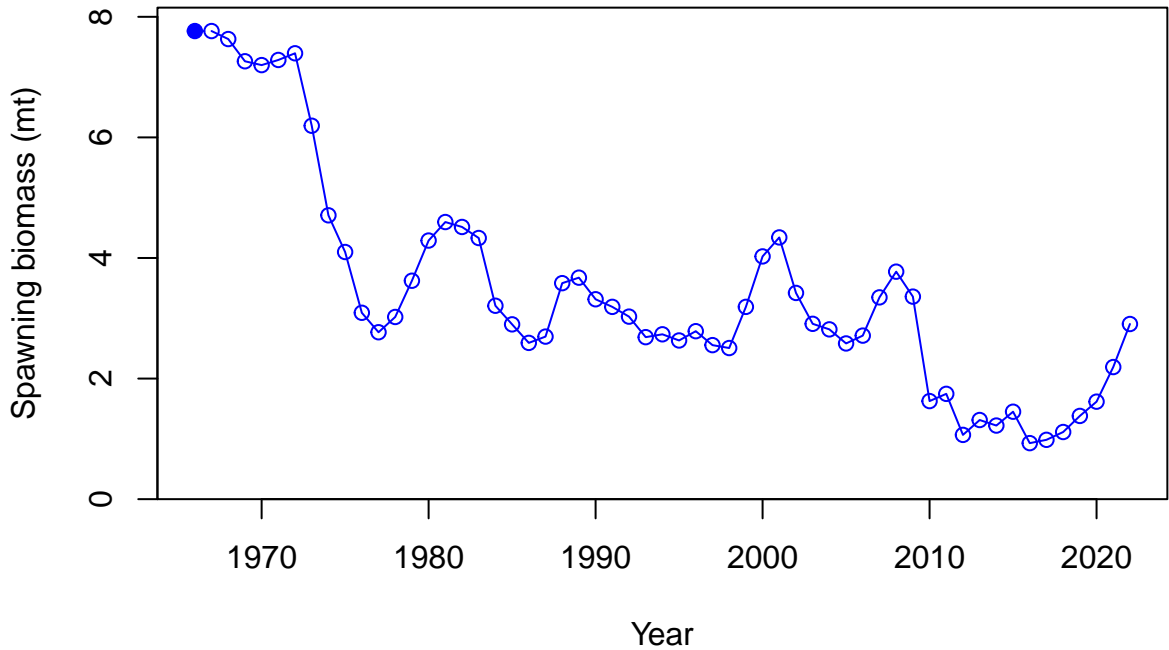


Selectivity

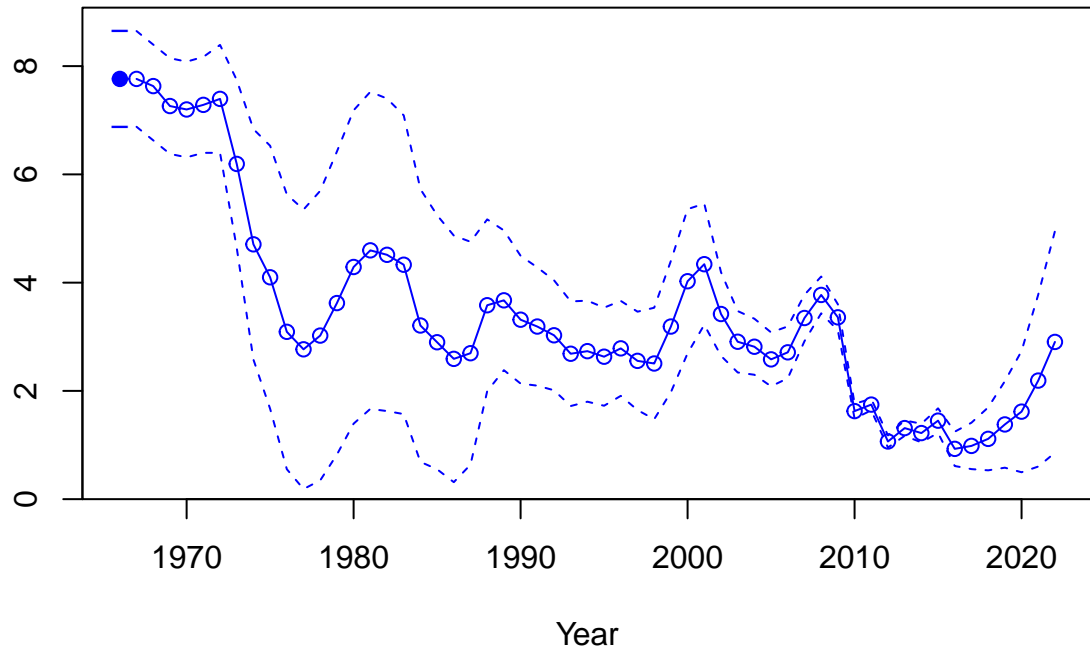




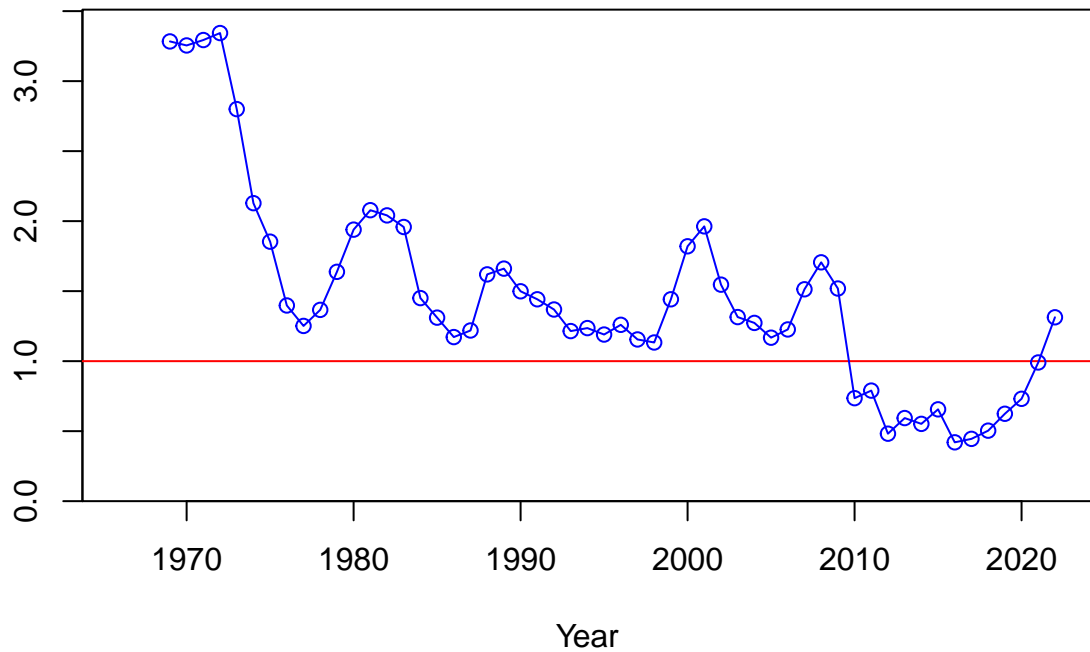




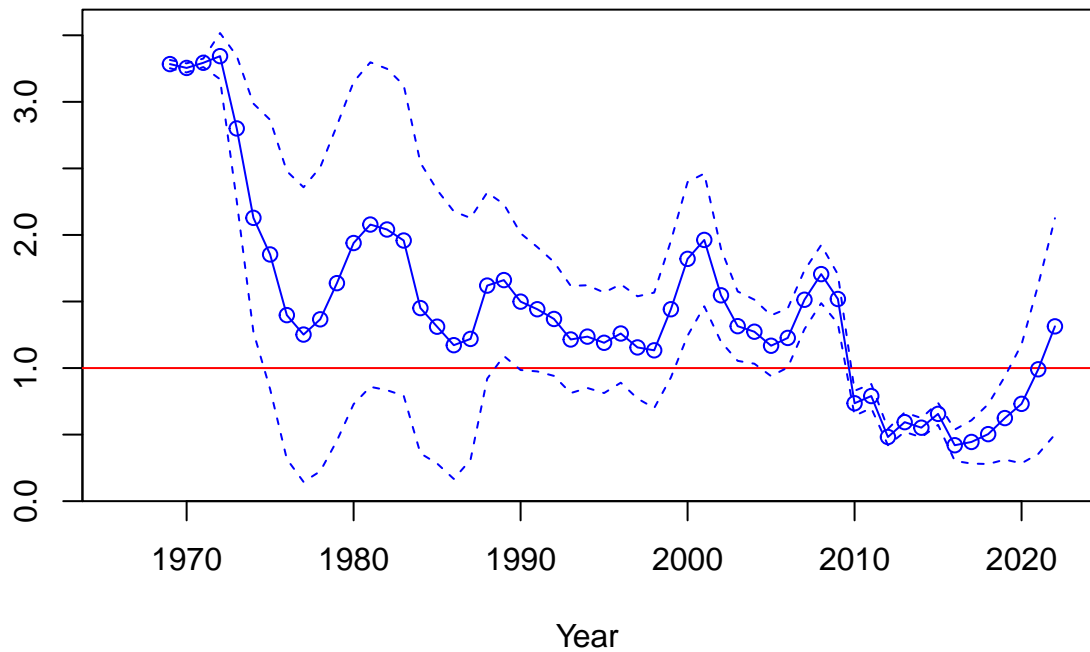
Spawning biomass (mt)

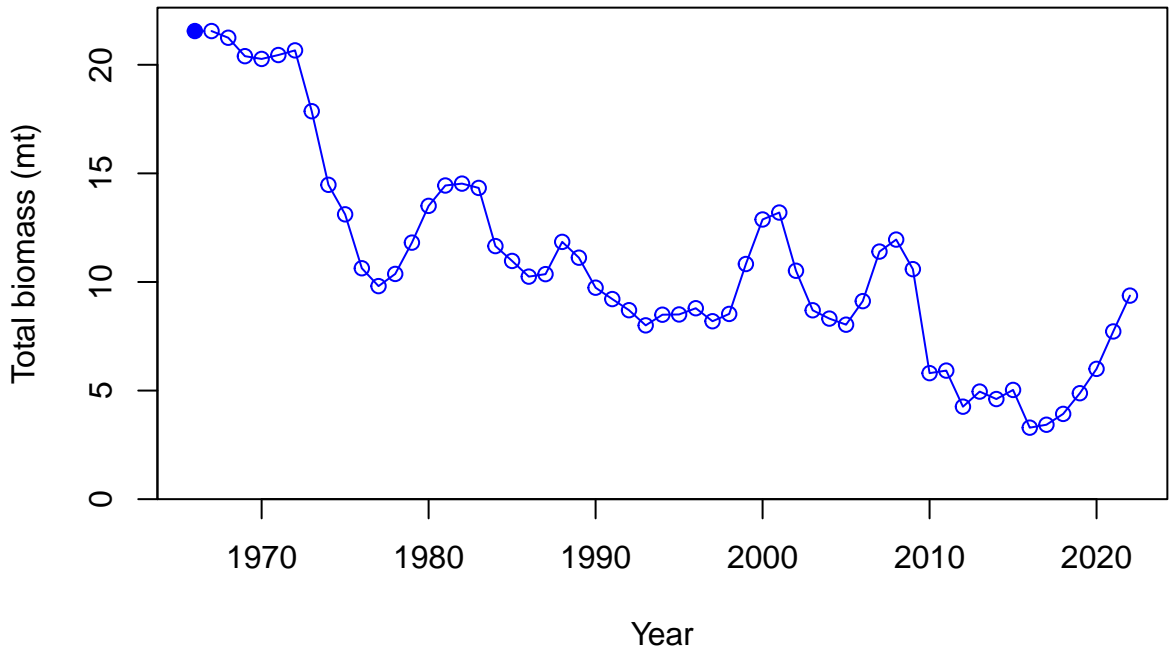


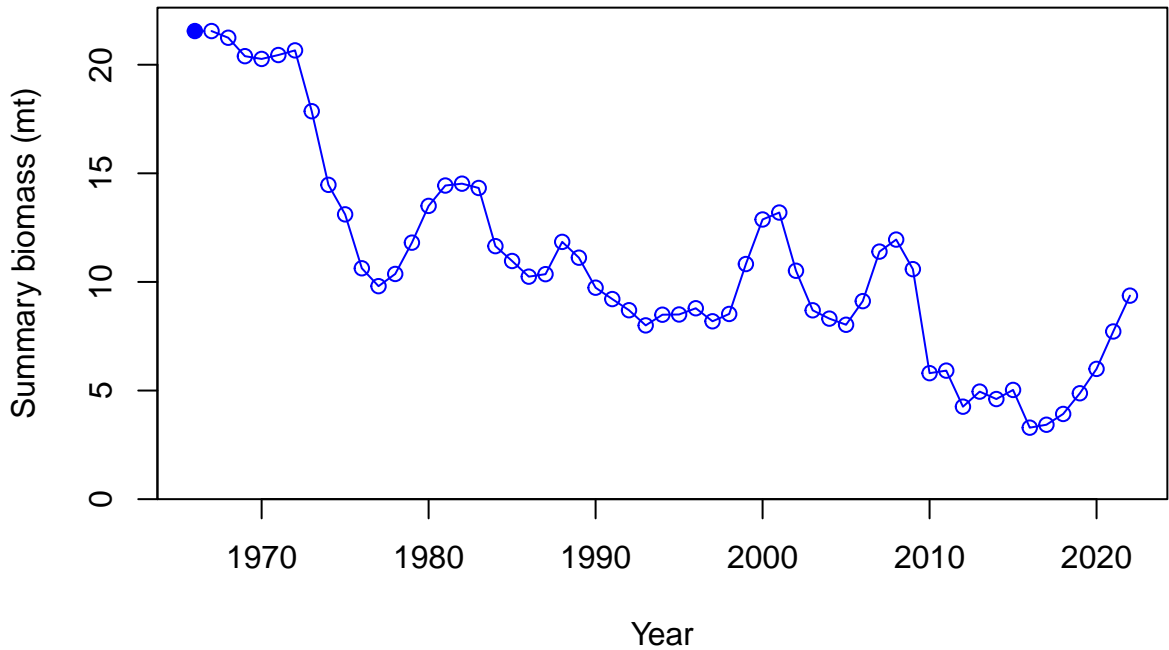
Relative spawning biomass:  $B/B_{MSY}$



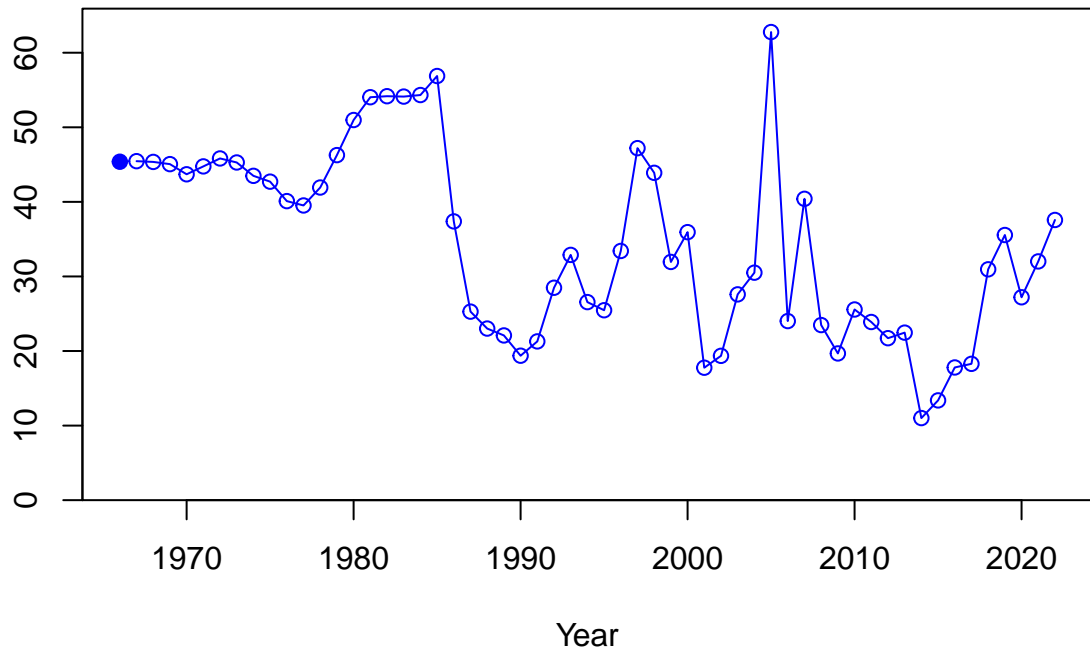
Relative spawning biomass:  $B/B_{MSY}$





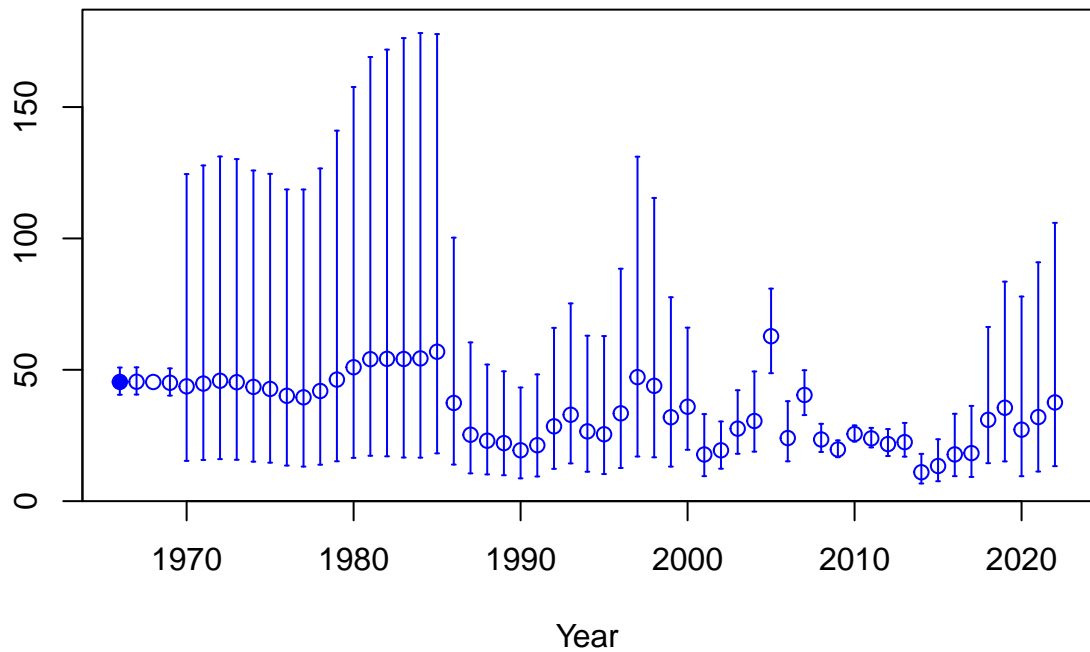


Age-0 recruits (1,000s)

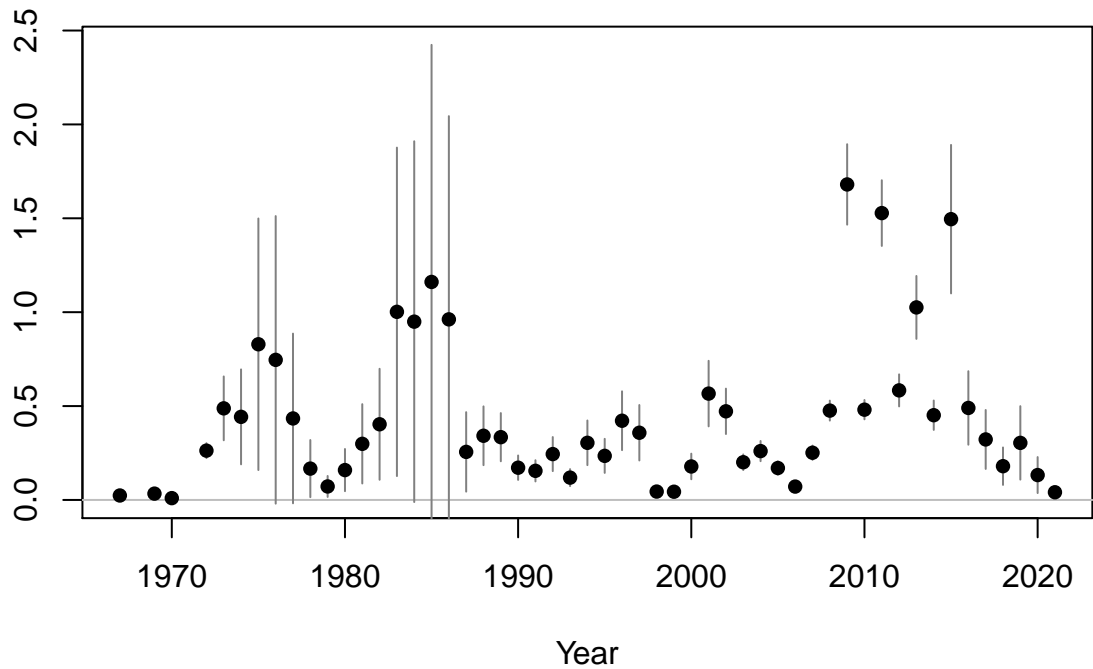


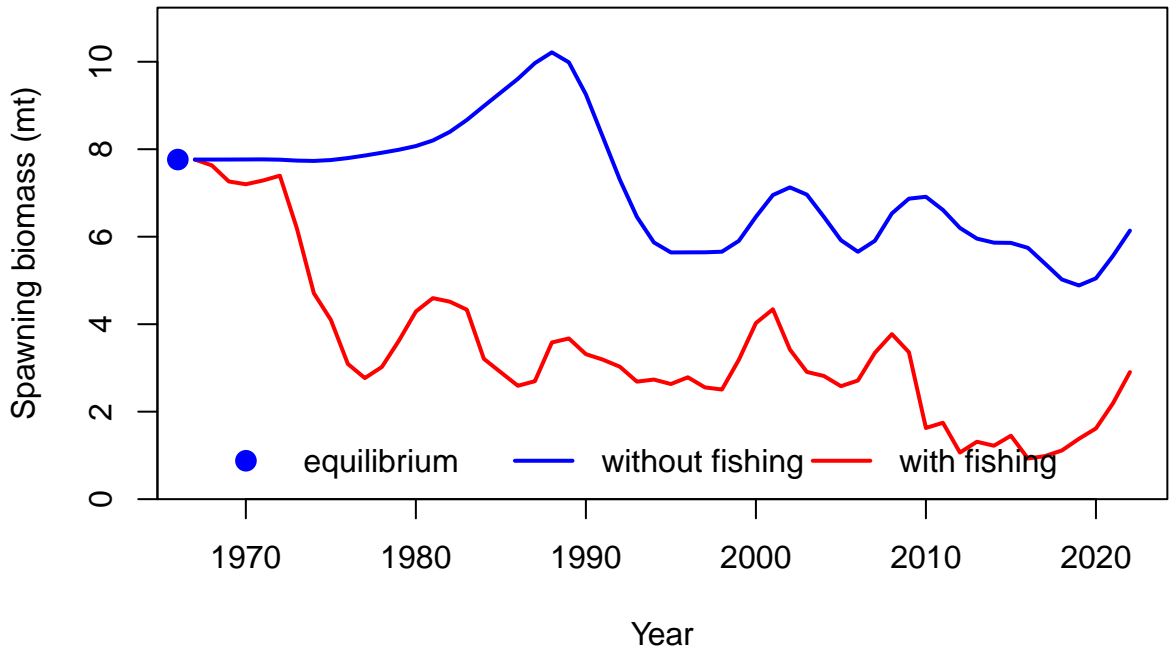


Age-0 recruits (1,000s)

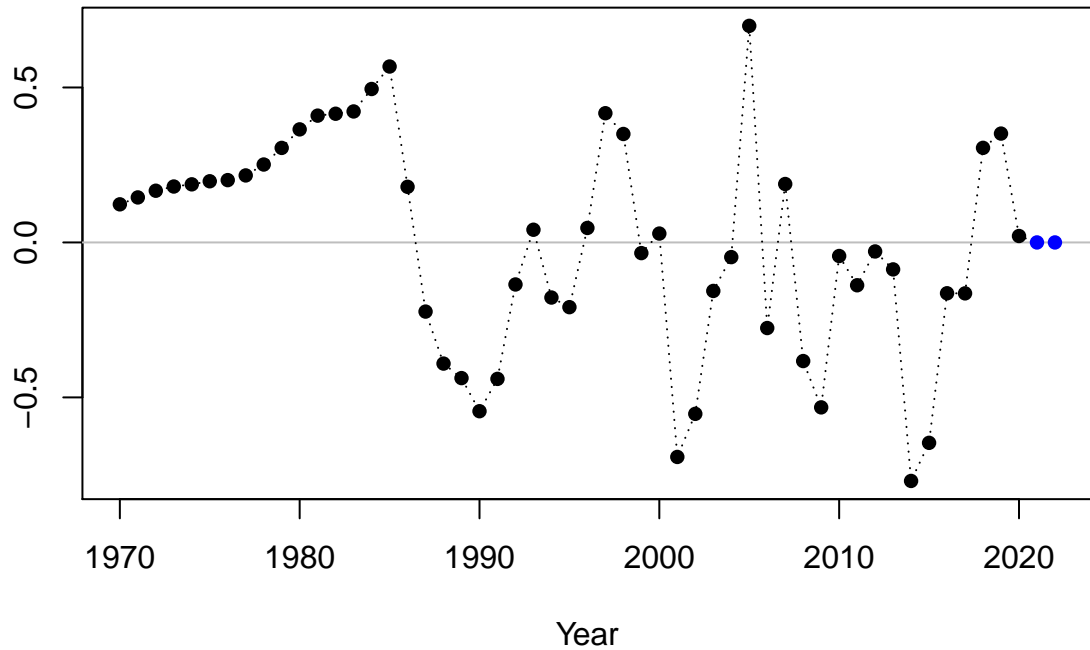


Summary Fishing Mortality

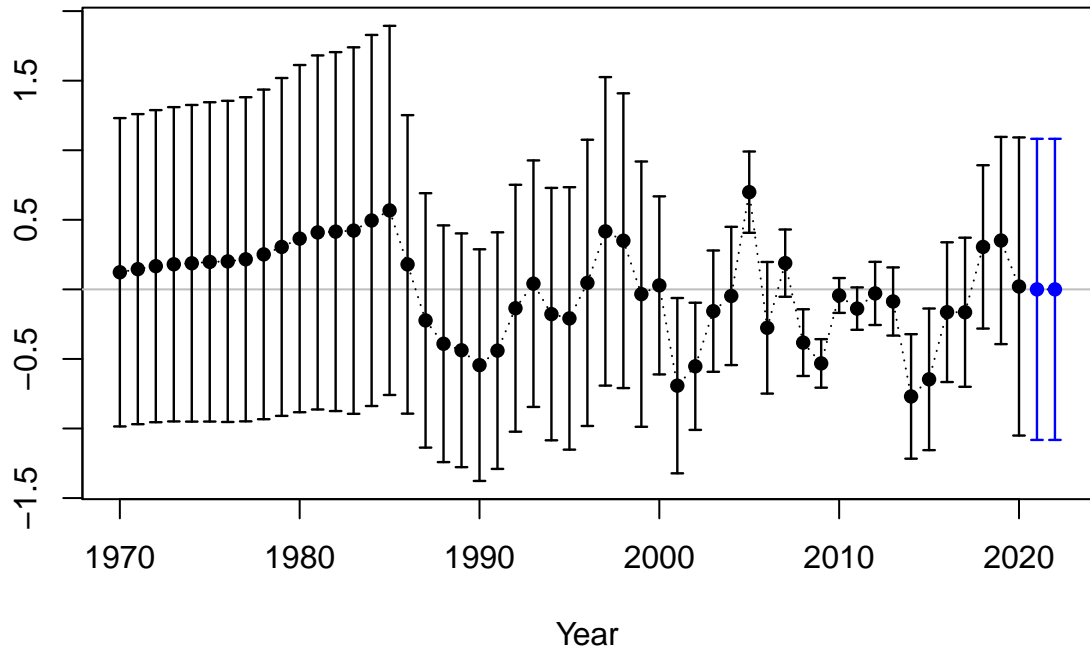




Log recruitment deviation

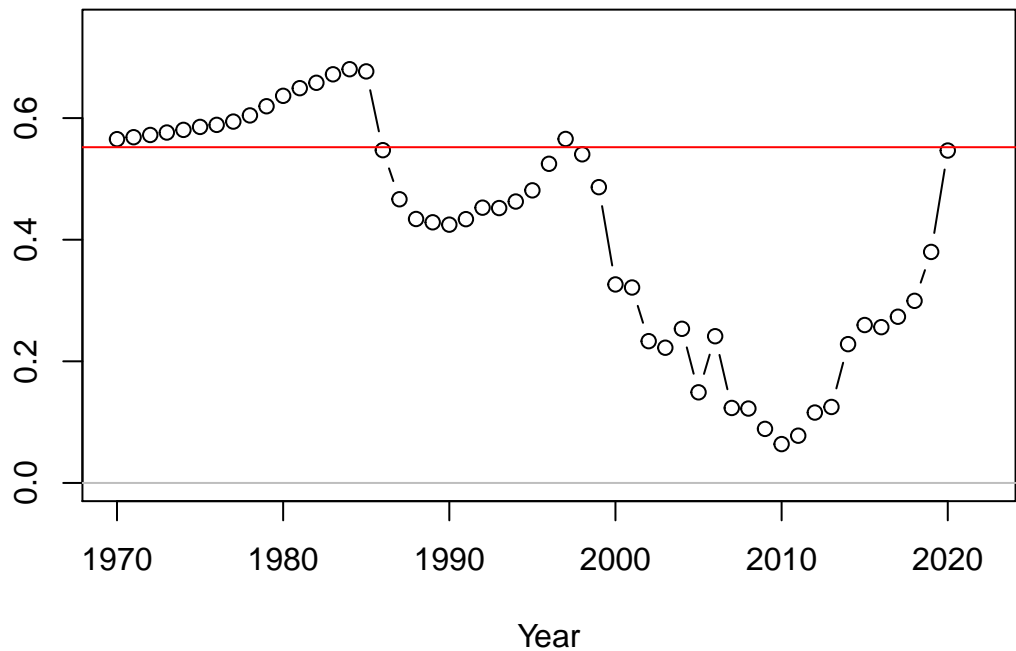


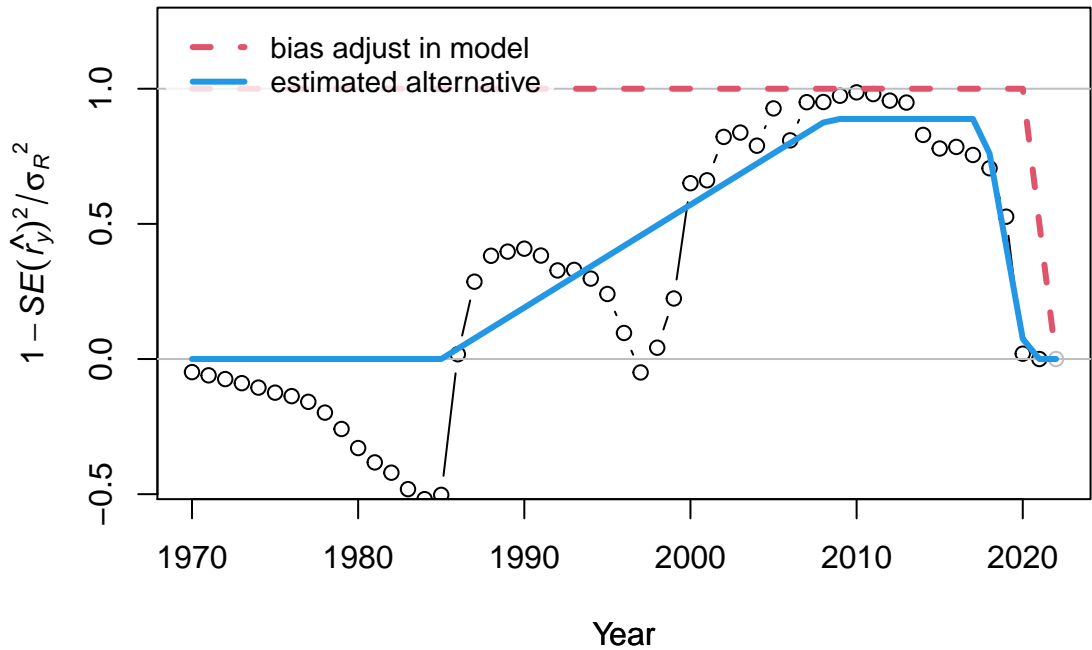
Log recruitment deviation

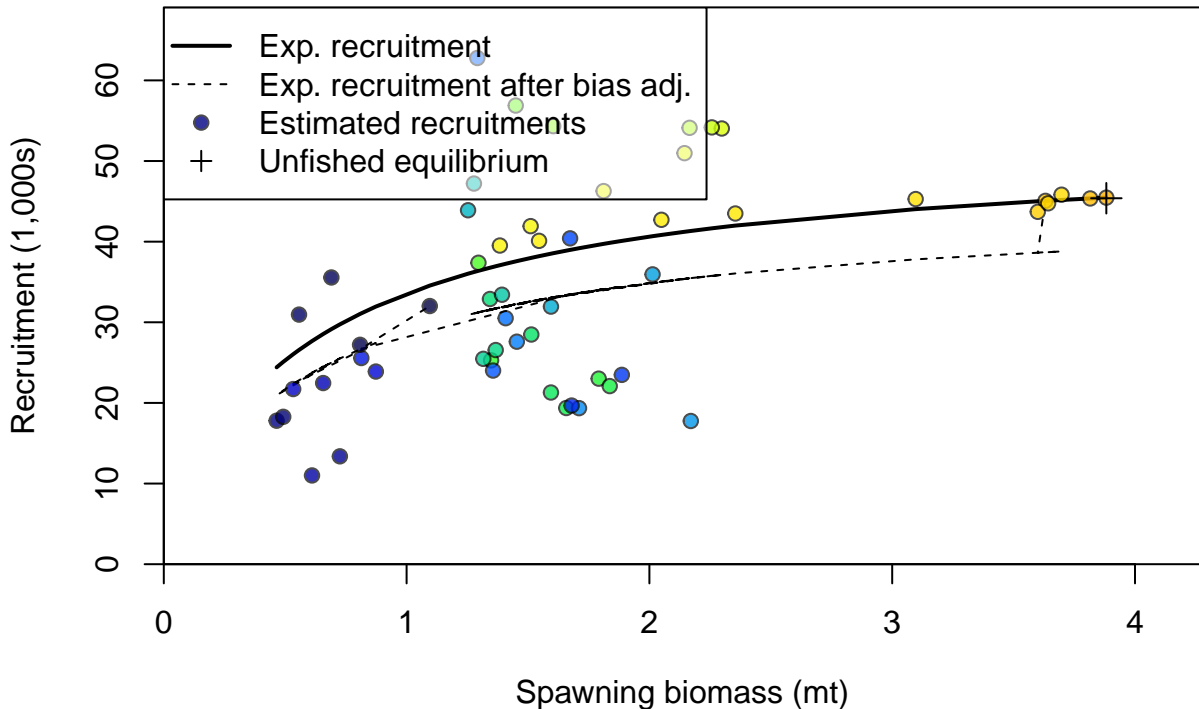


## Recruitment deviation variance

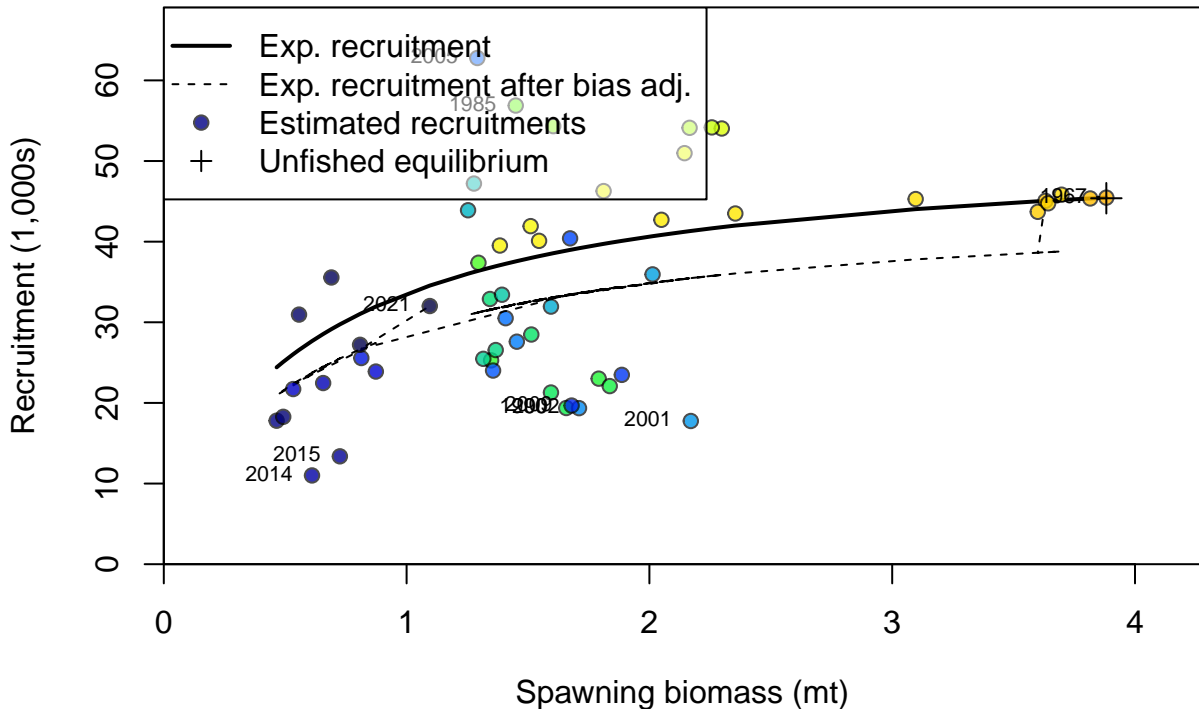
Asymptotic standard error estimate



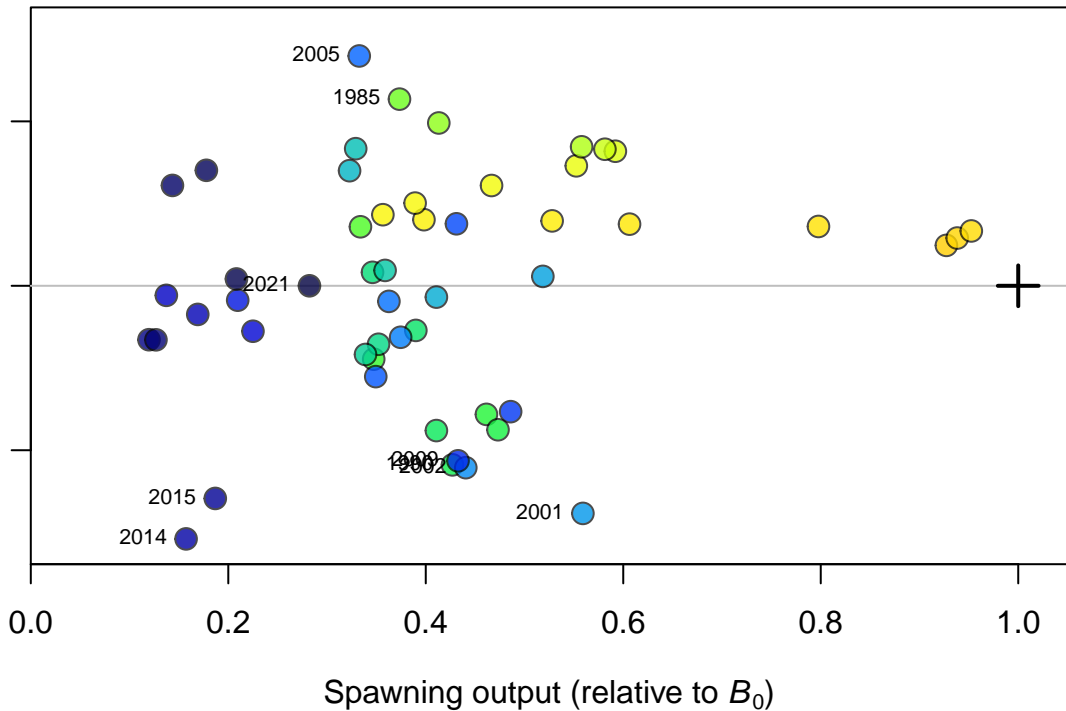


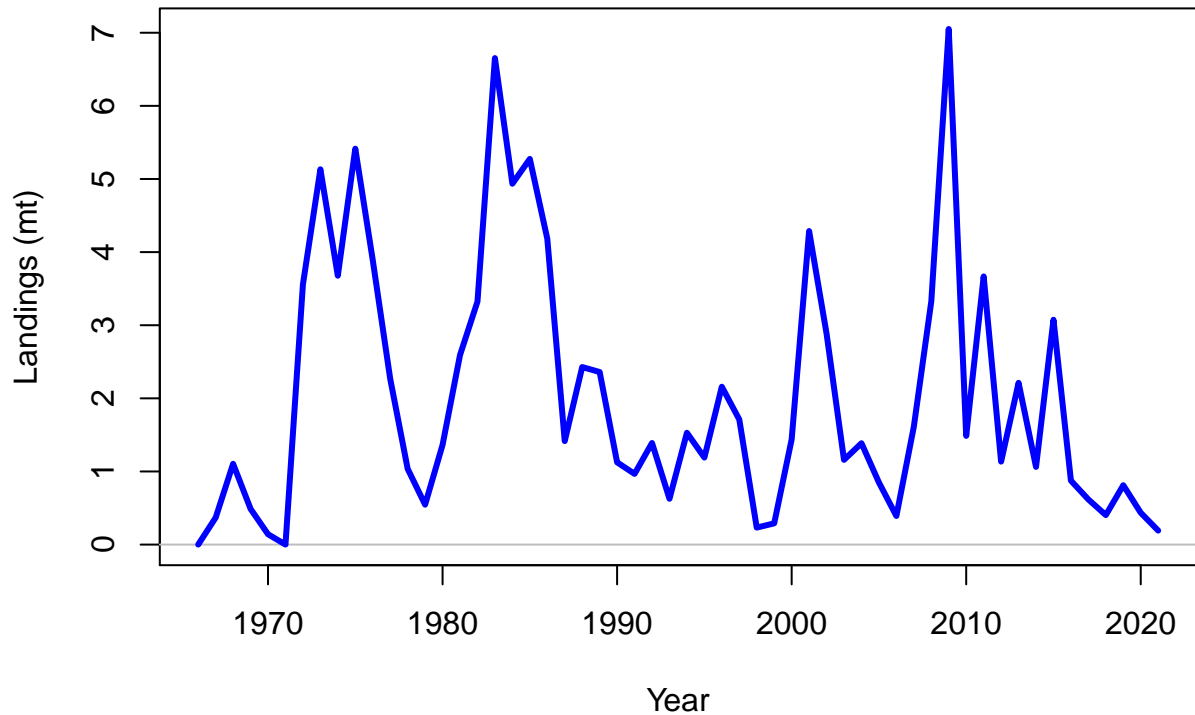


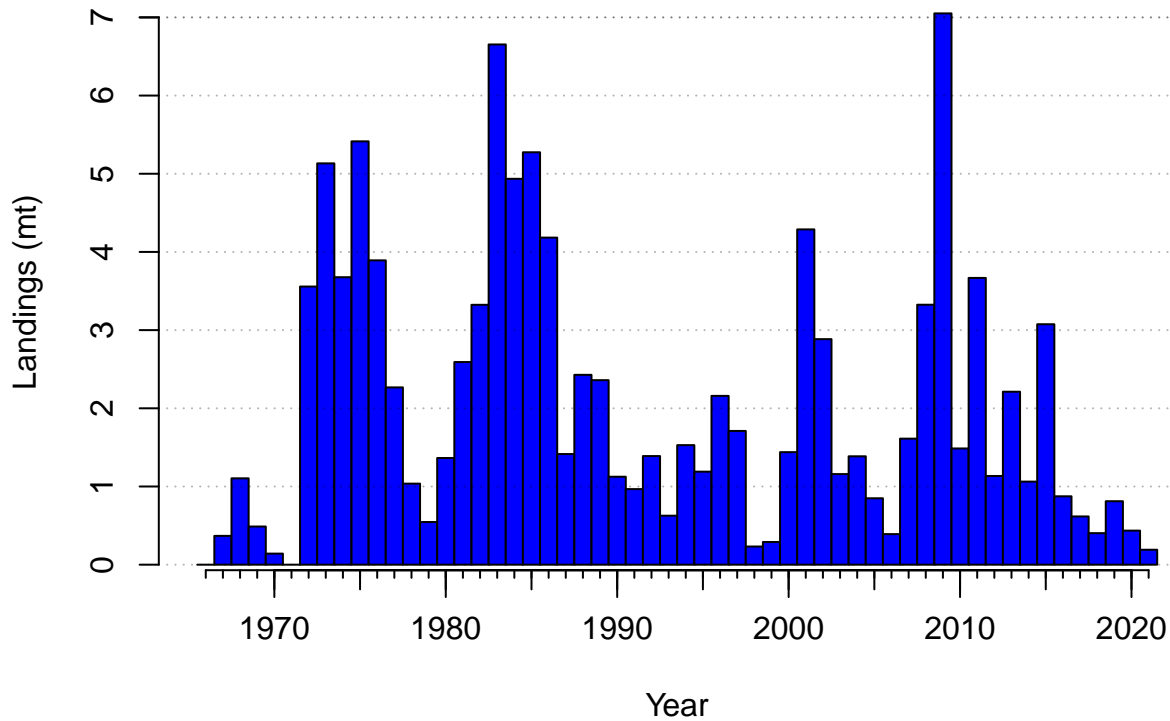




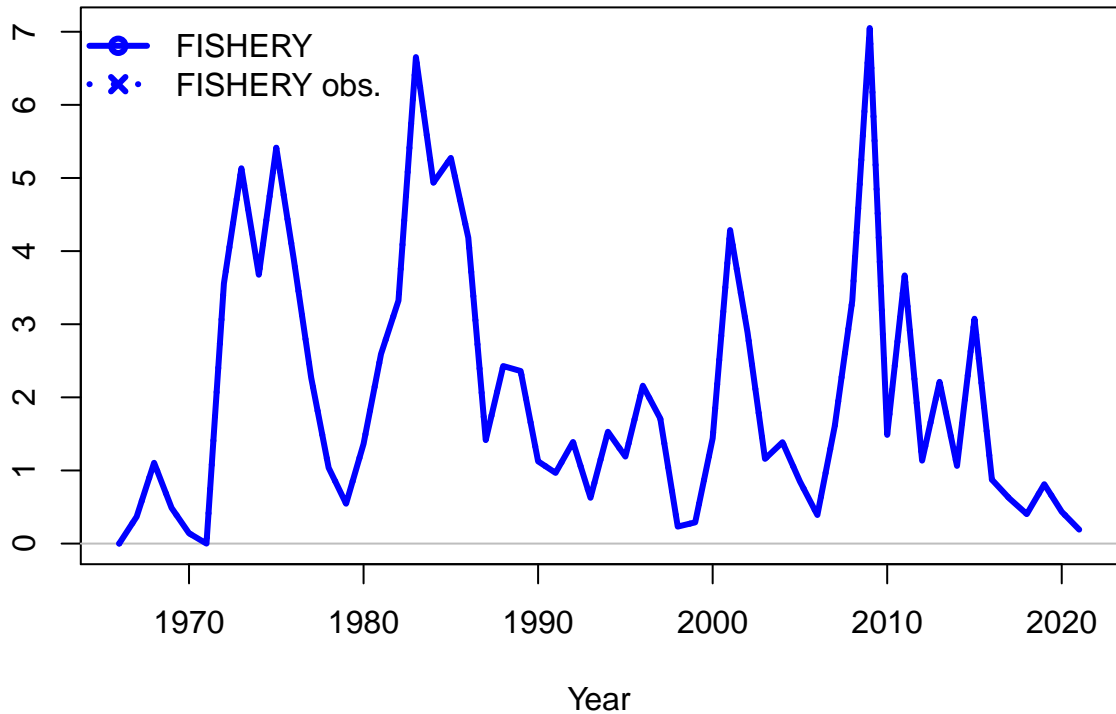
Log recruitment deviation

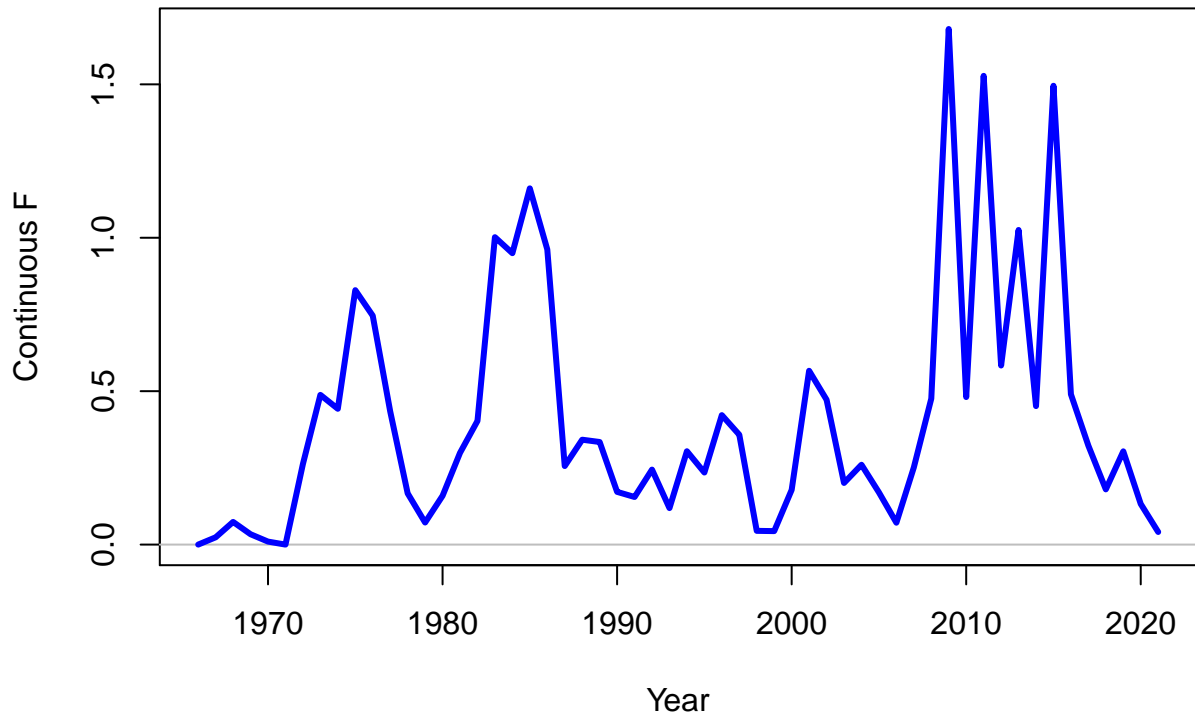




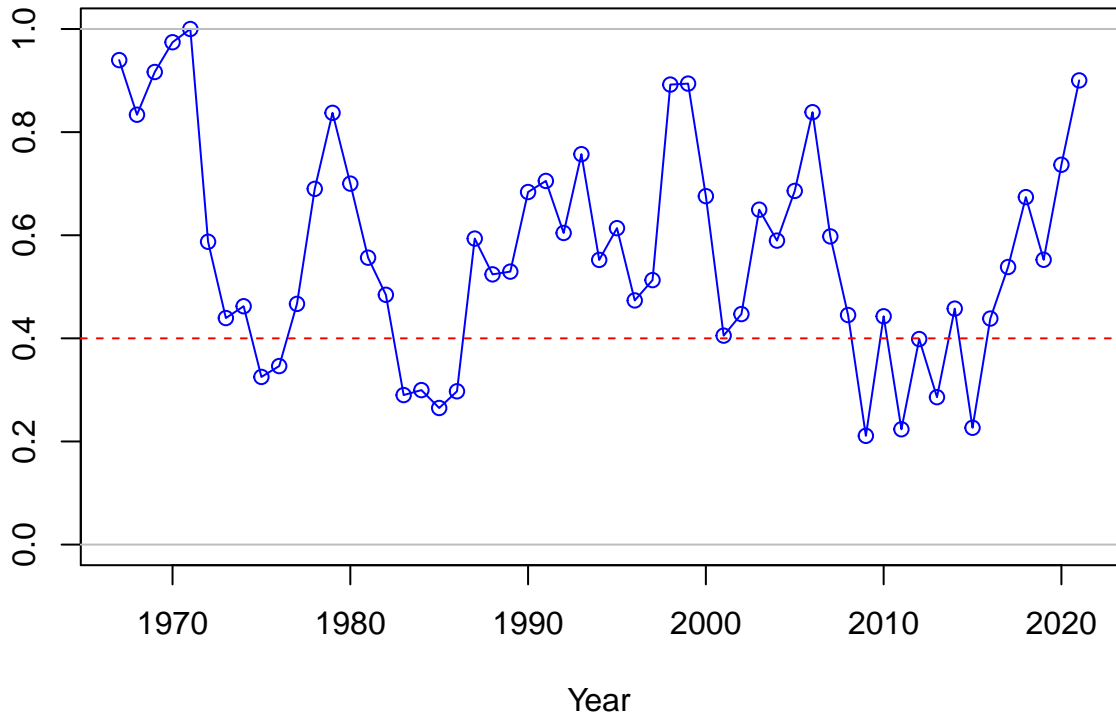


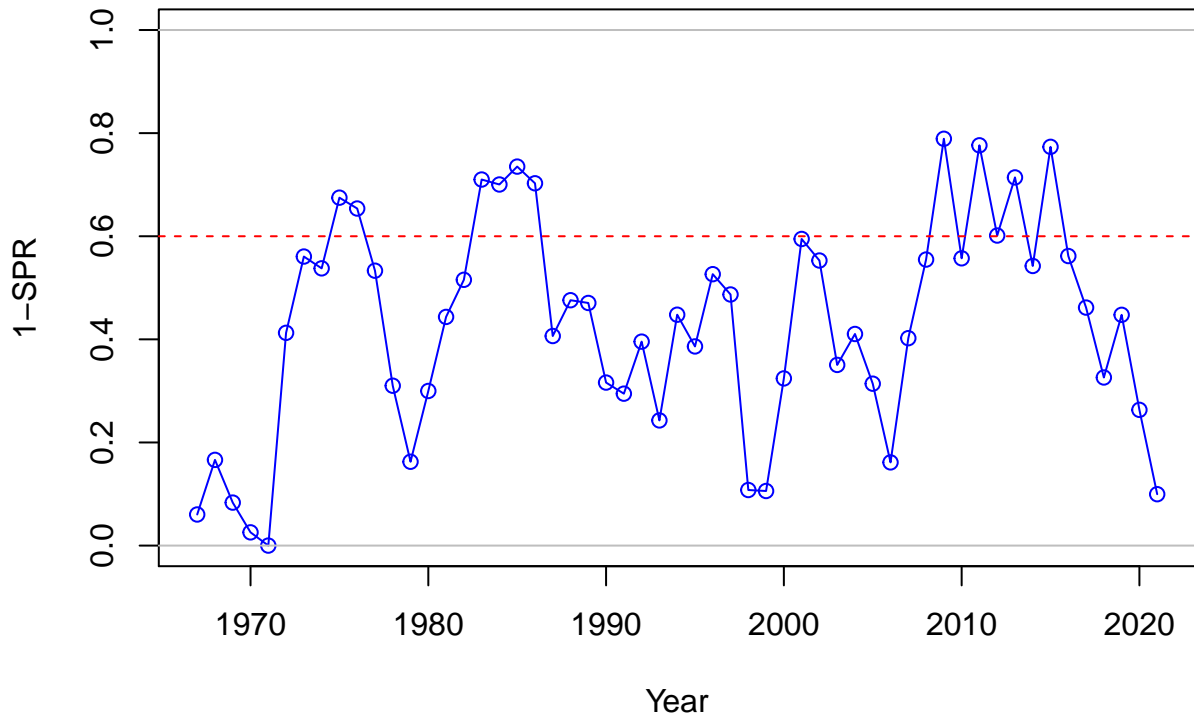
Observed and expected Landings (mt)





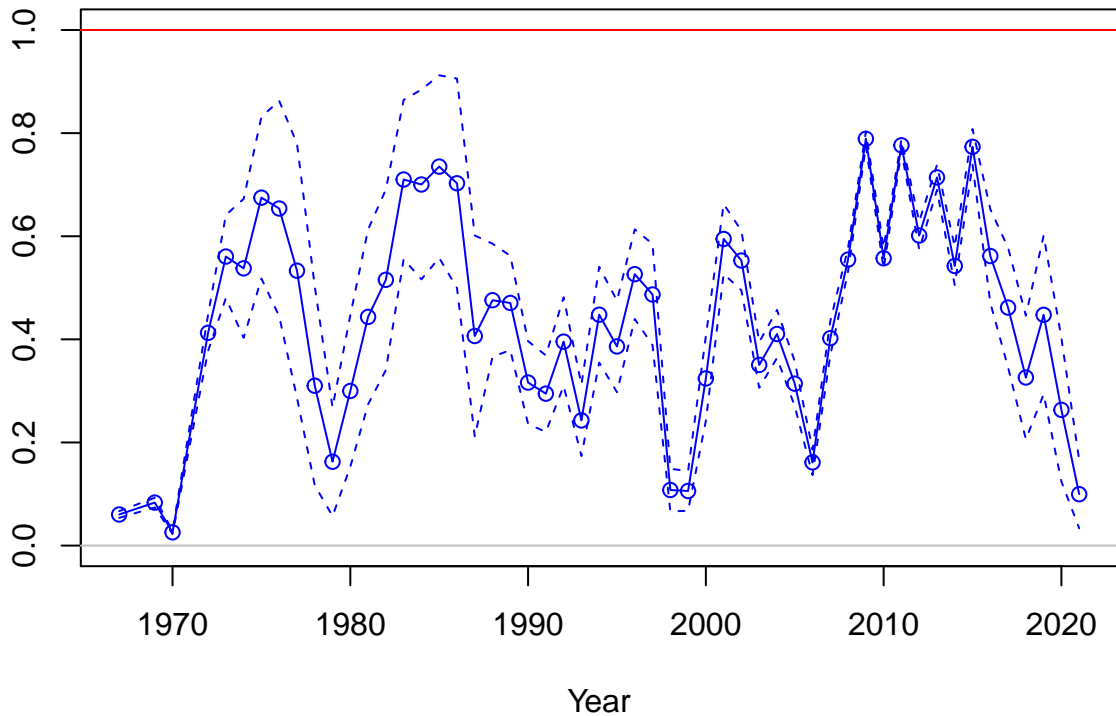
SPR



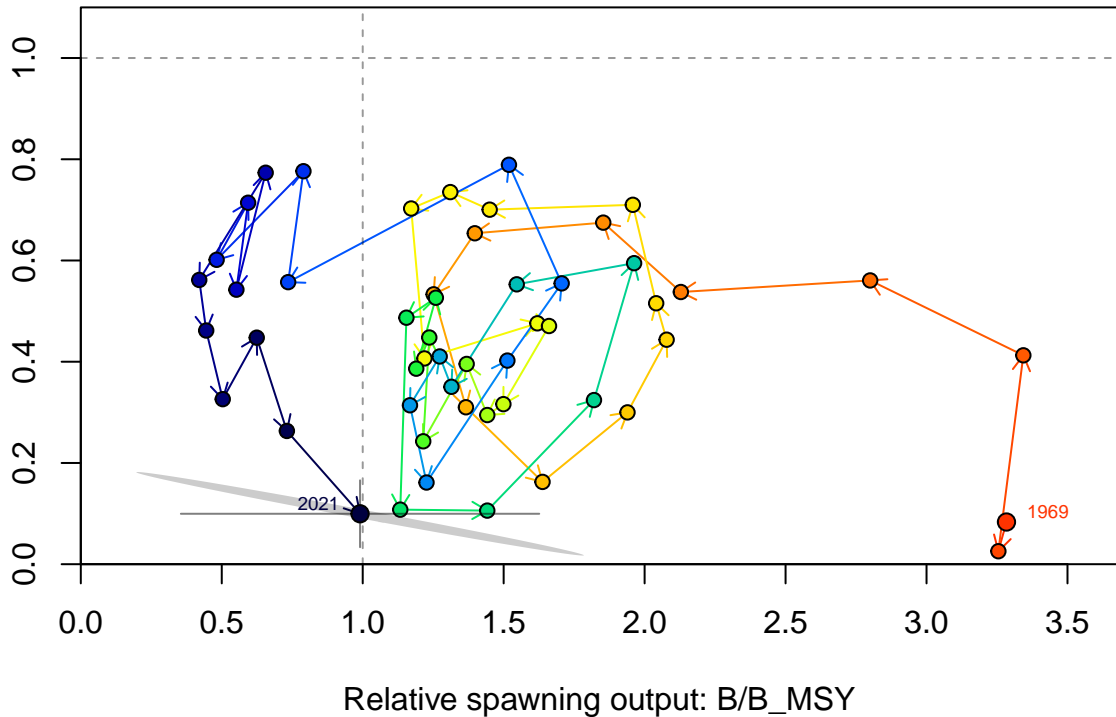




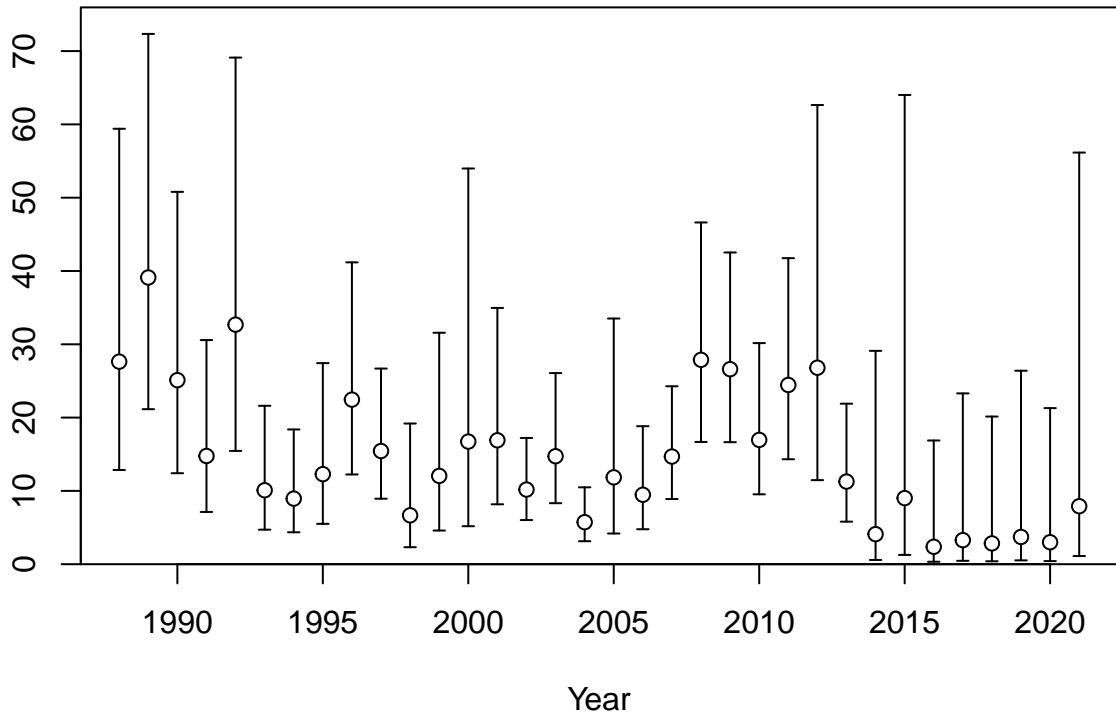
Fishing intensity: 1-SPR



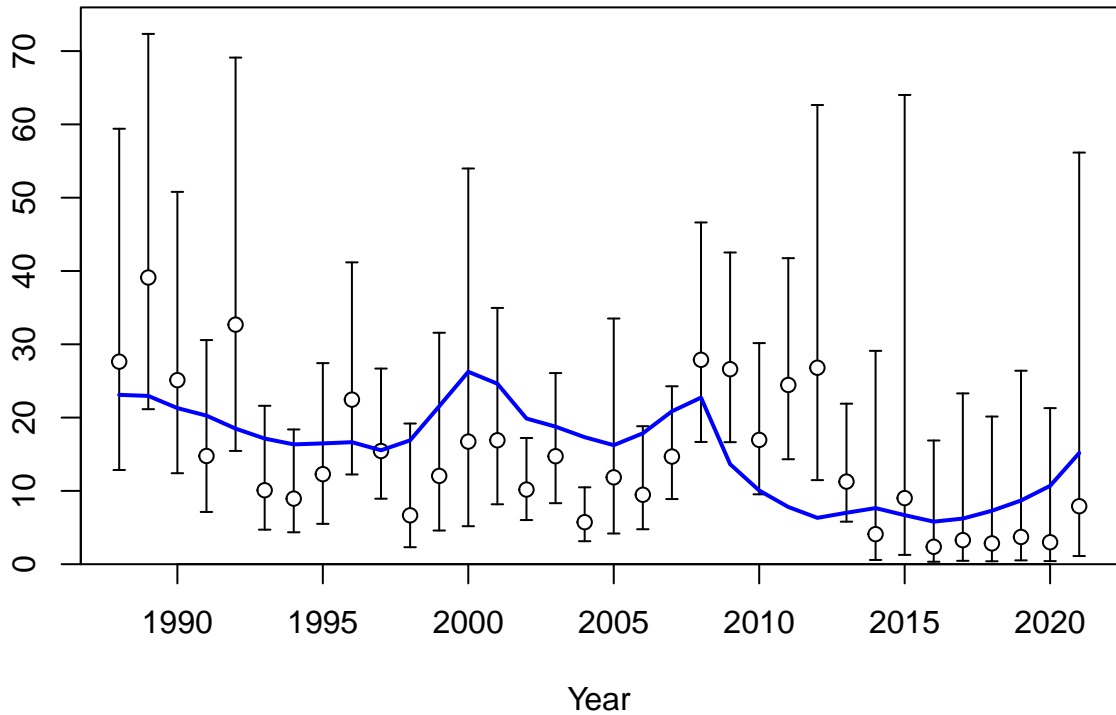
Fishing intensity: 1-SPR

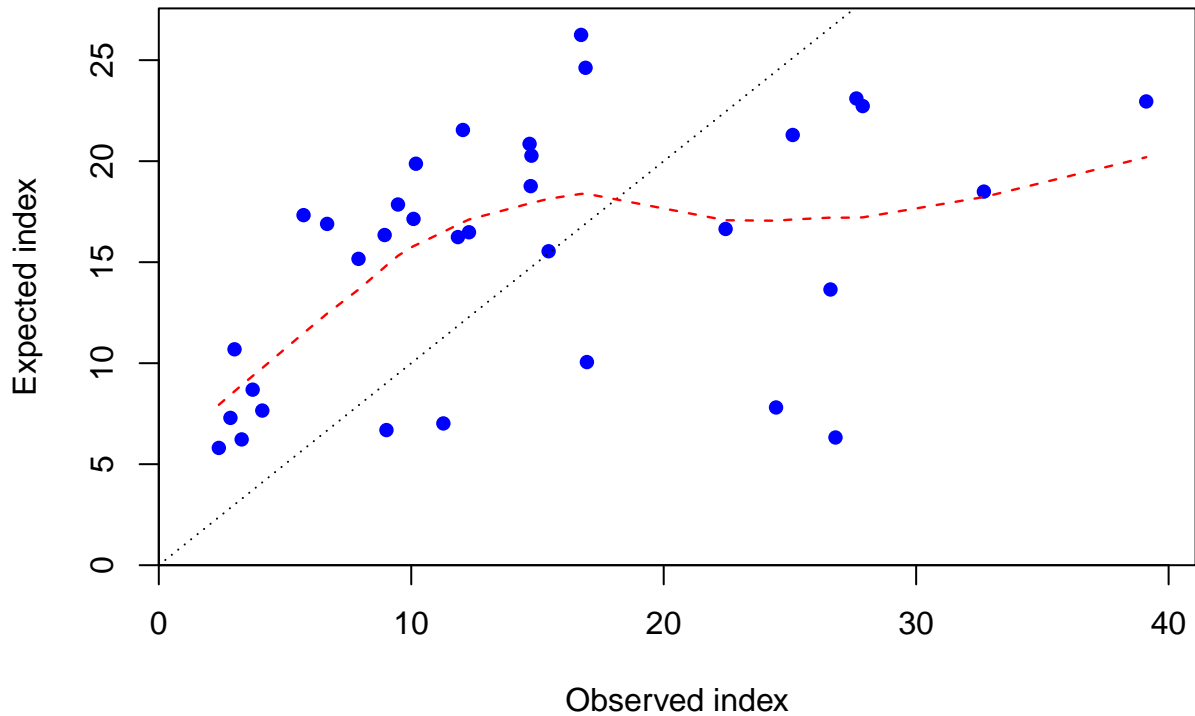


Index

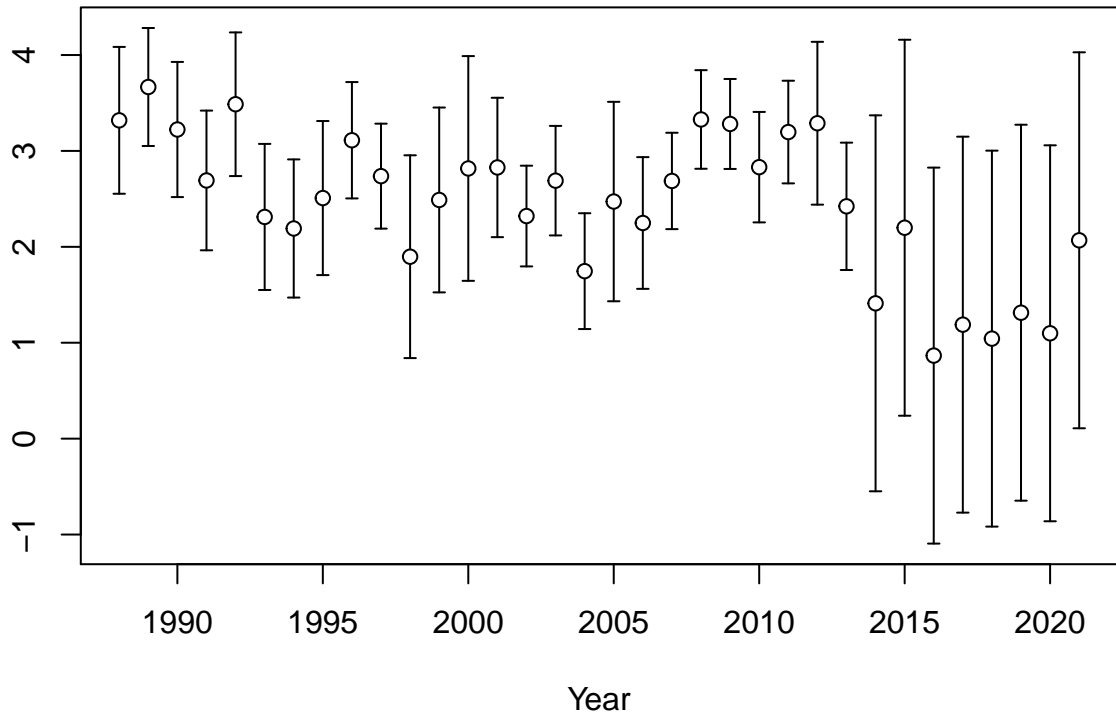


Index

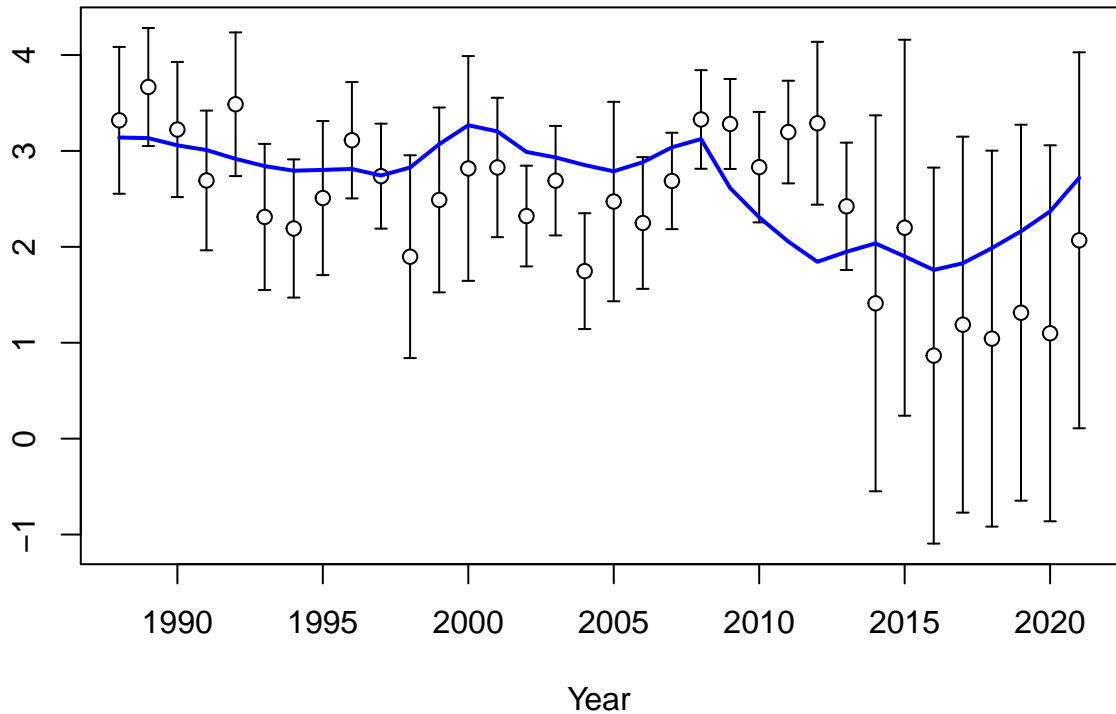


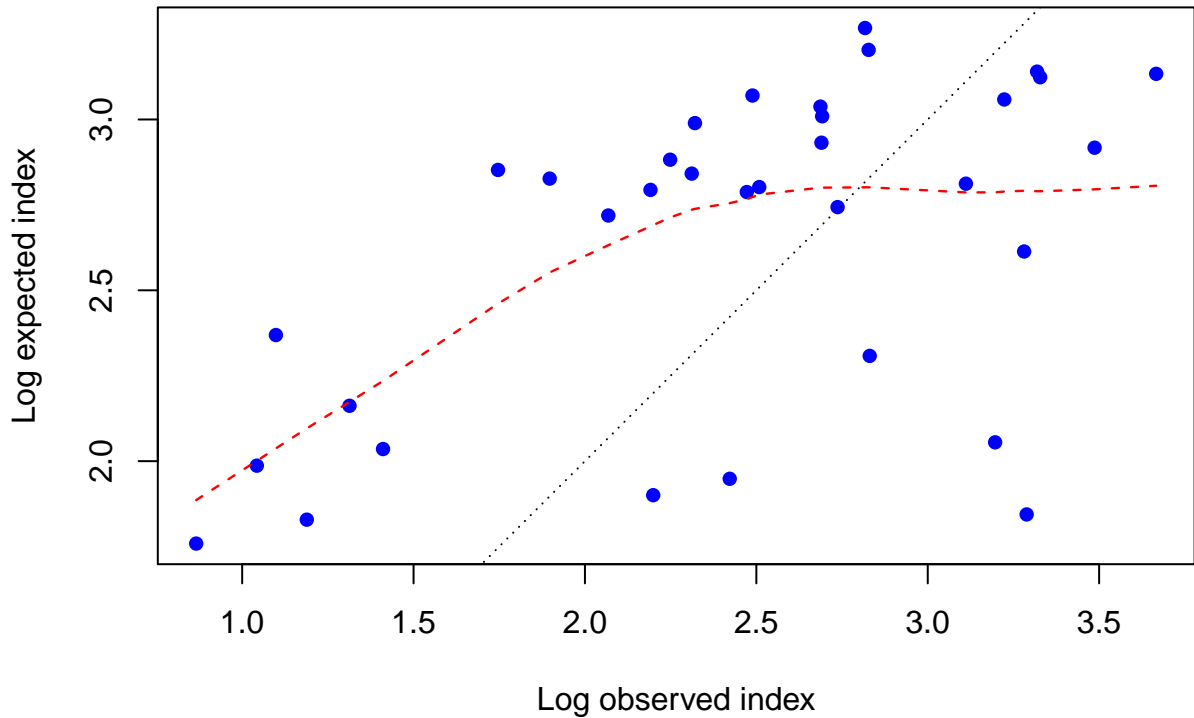


Log index

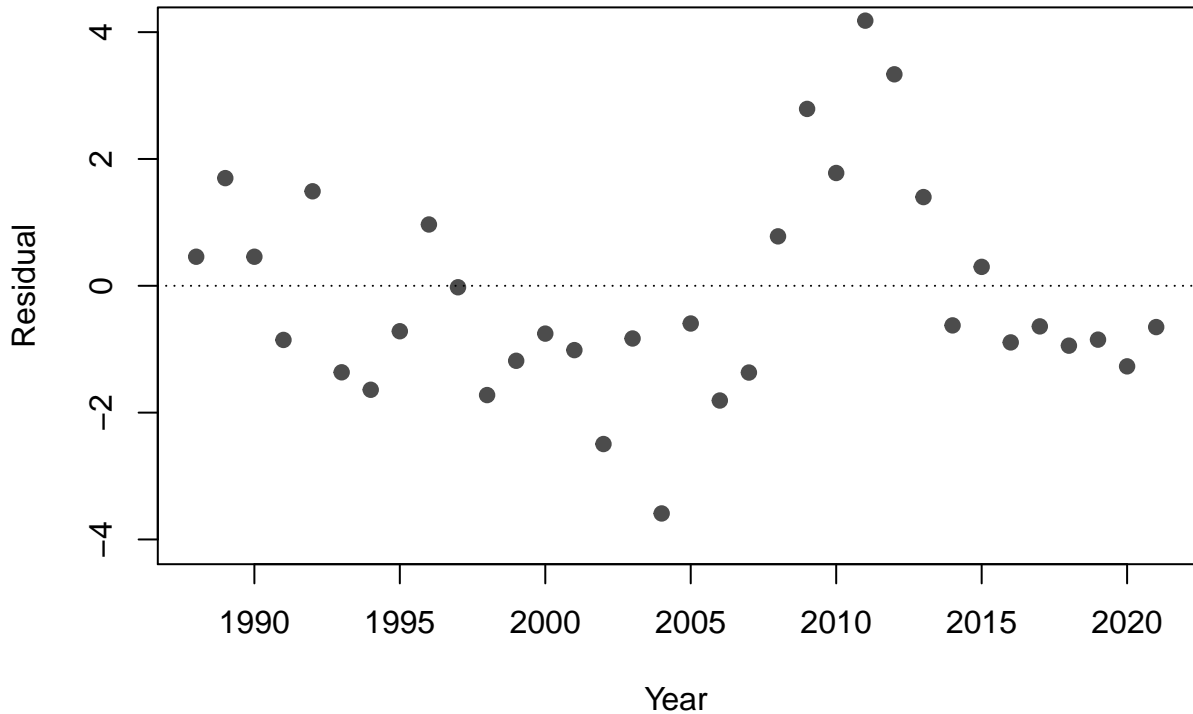


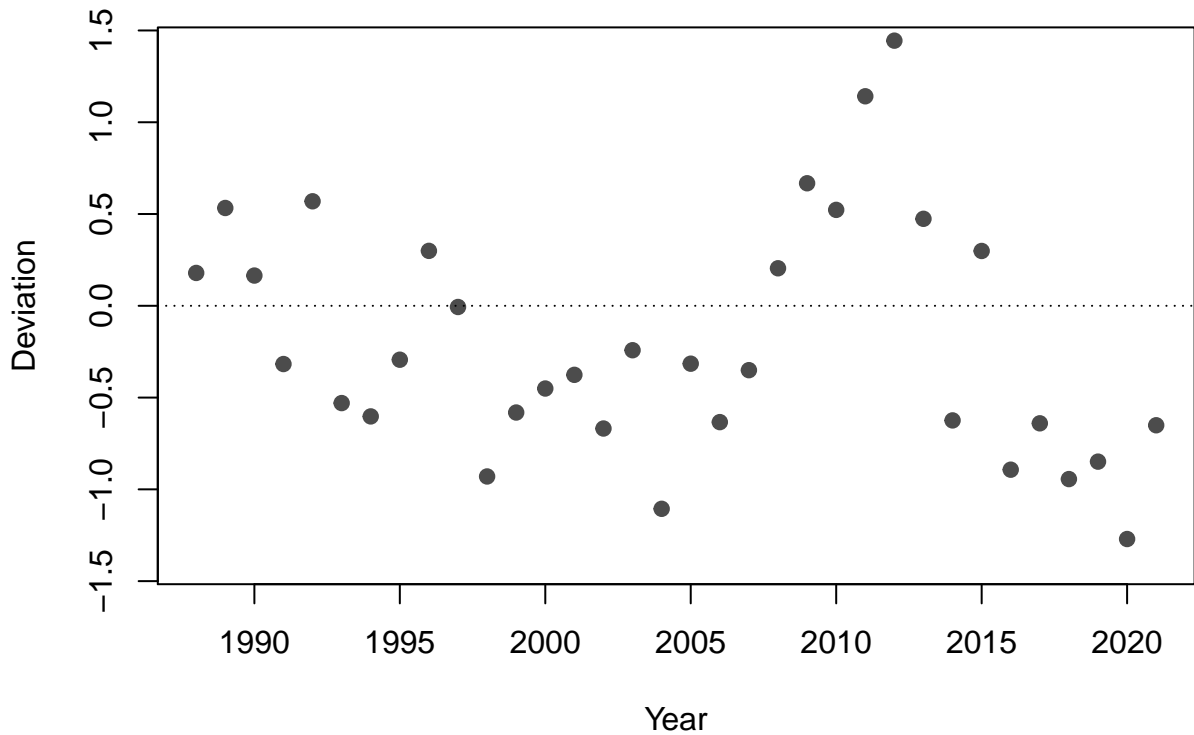
Log index

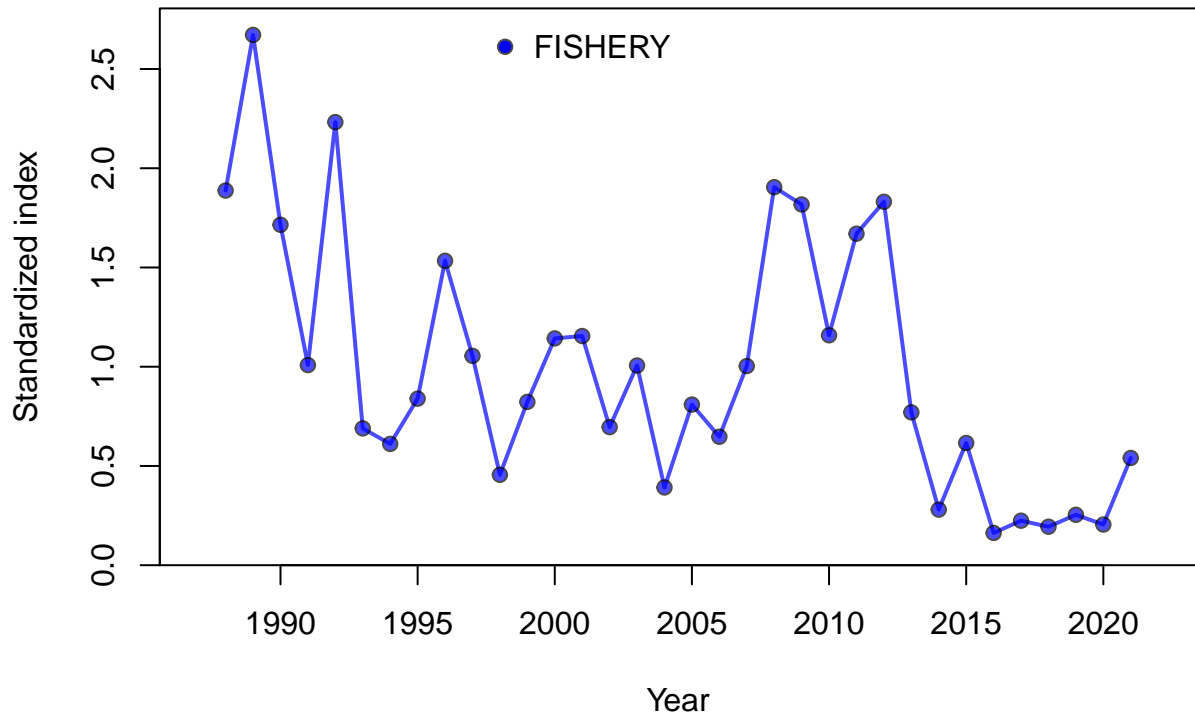




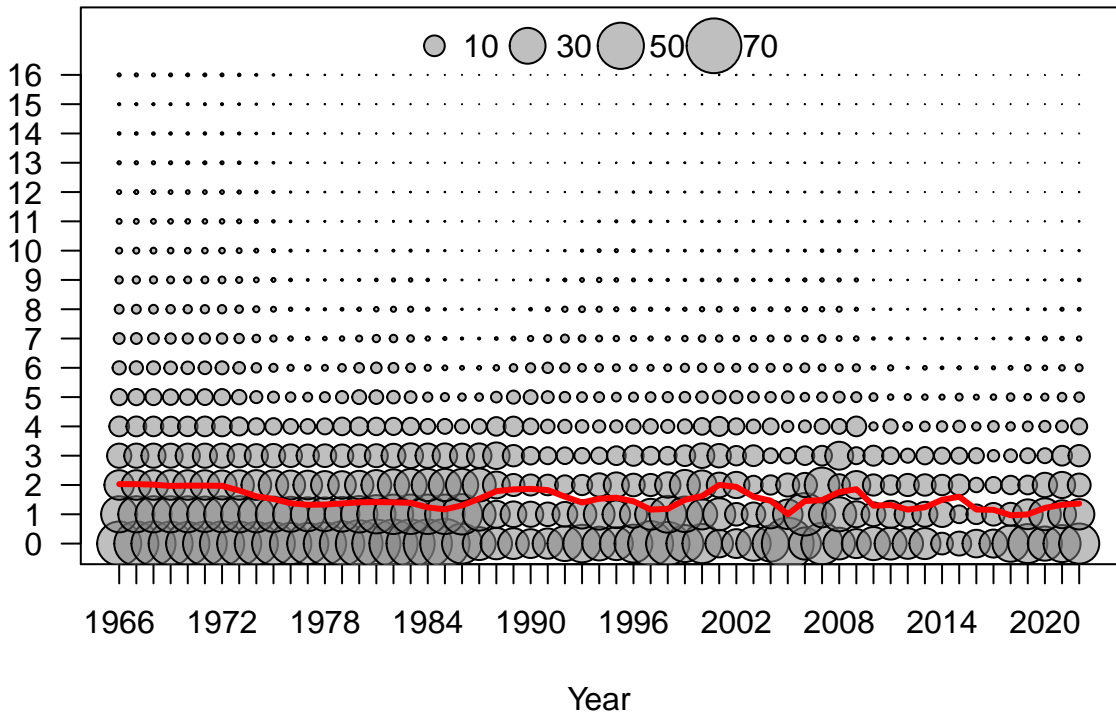




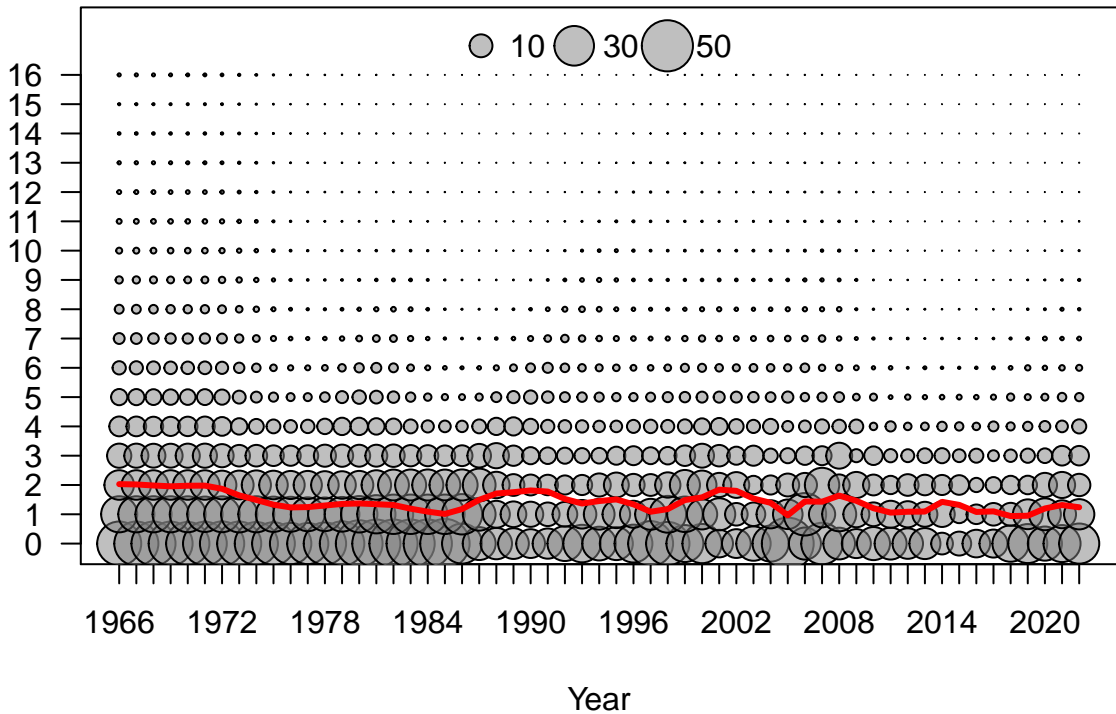


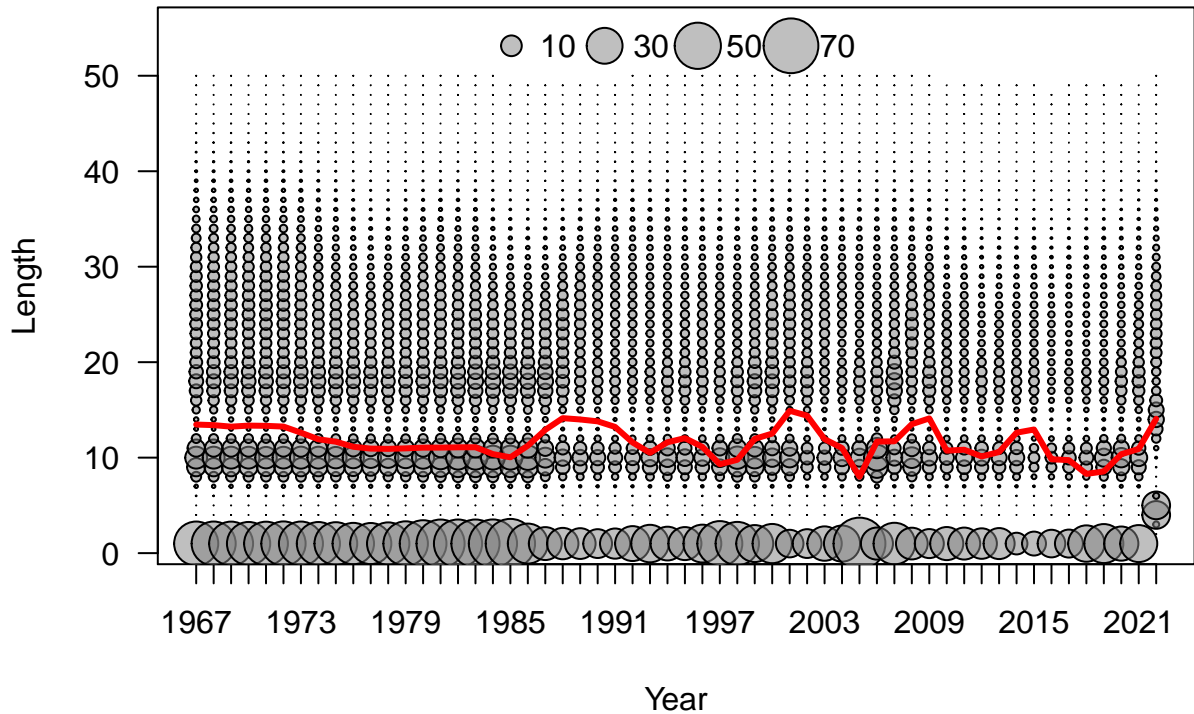


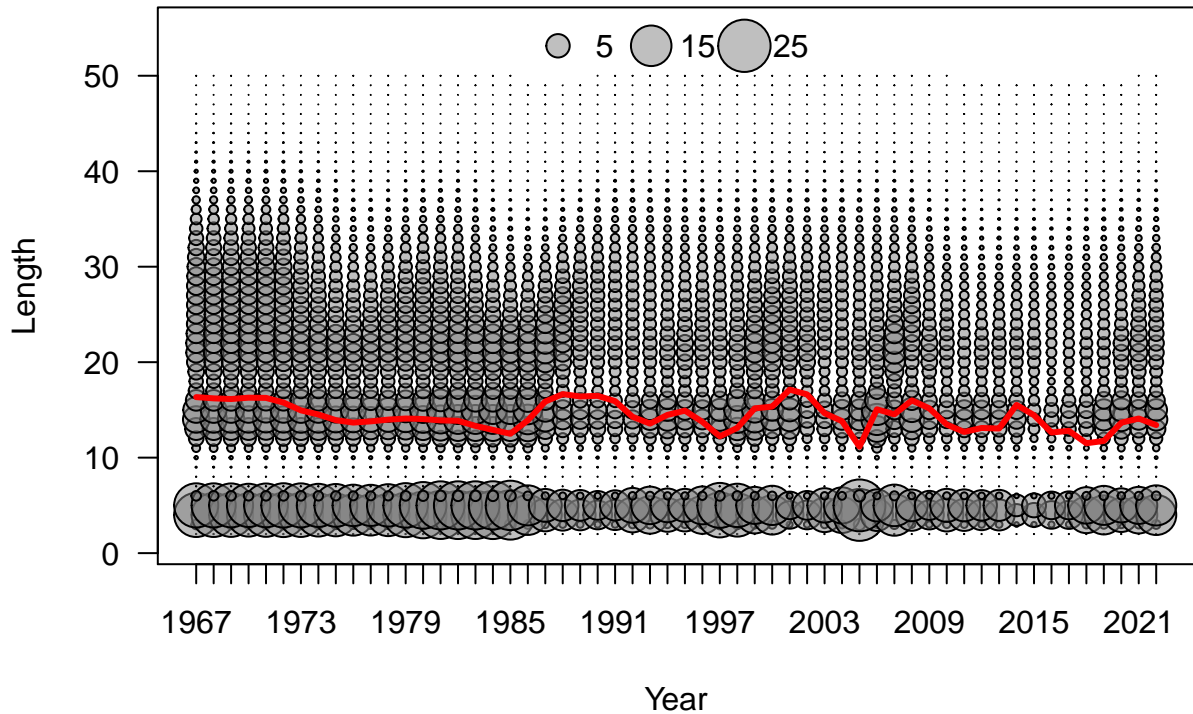
Age

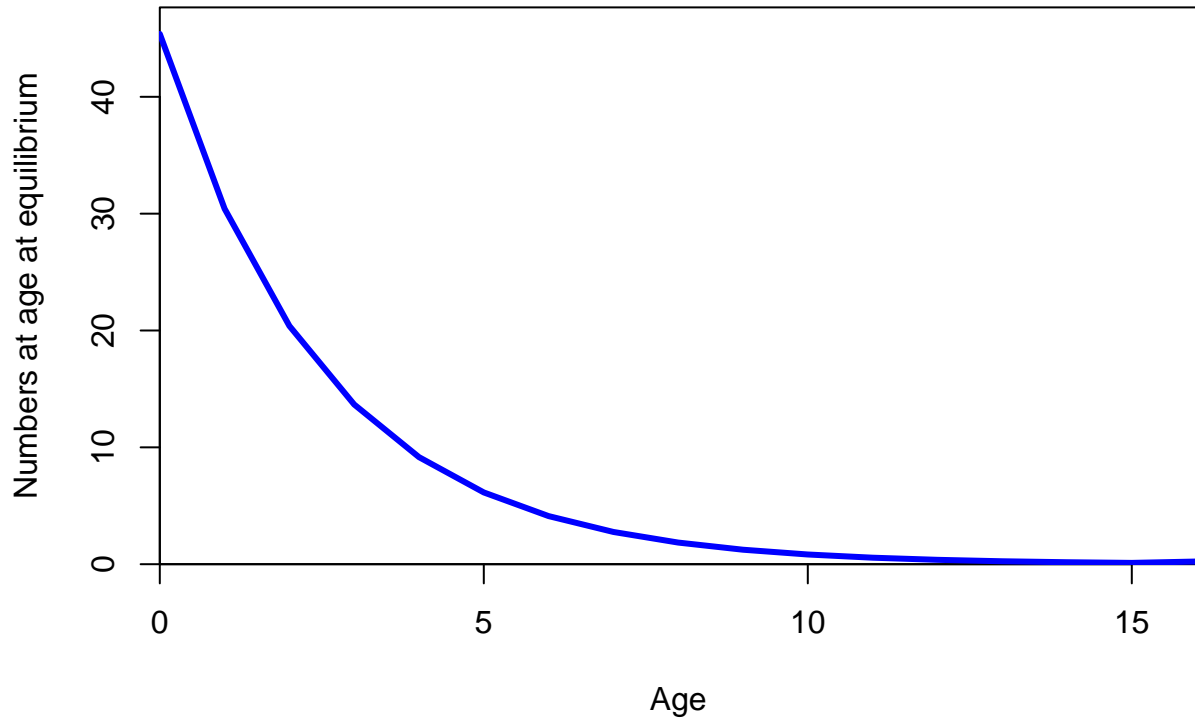


Age





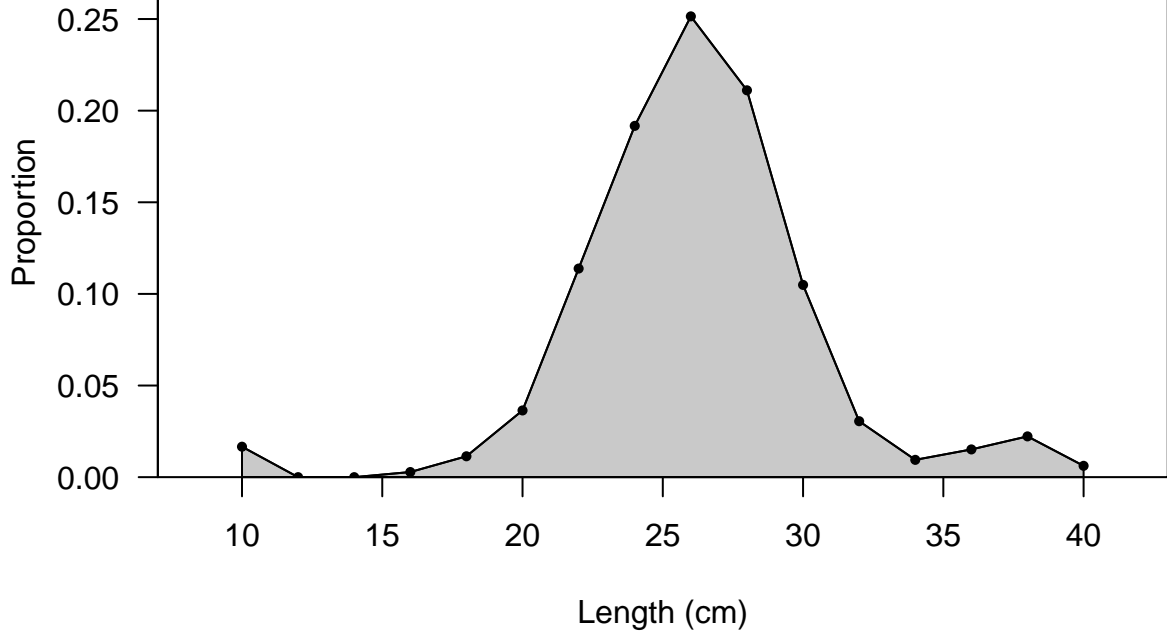


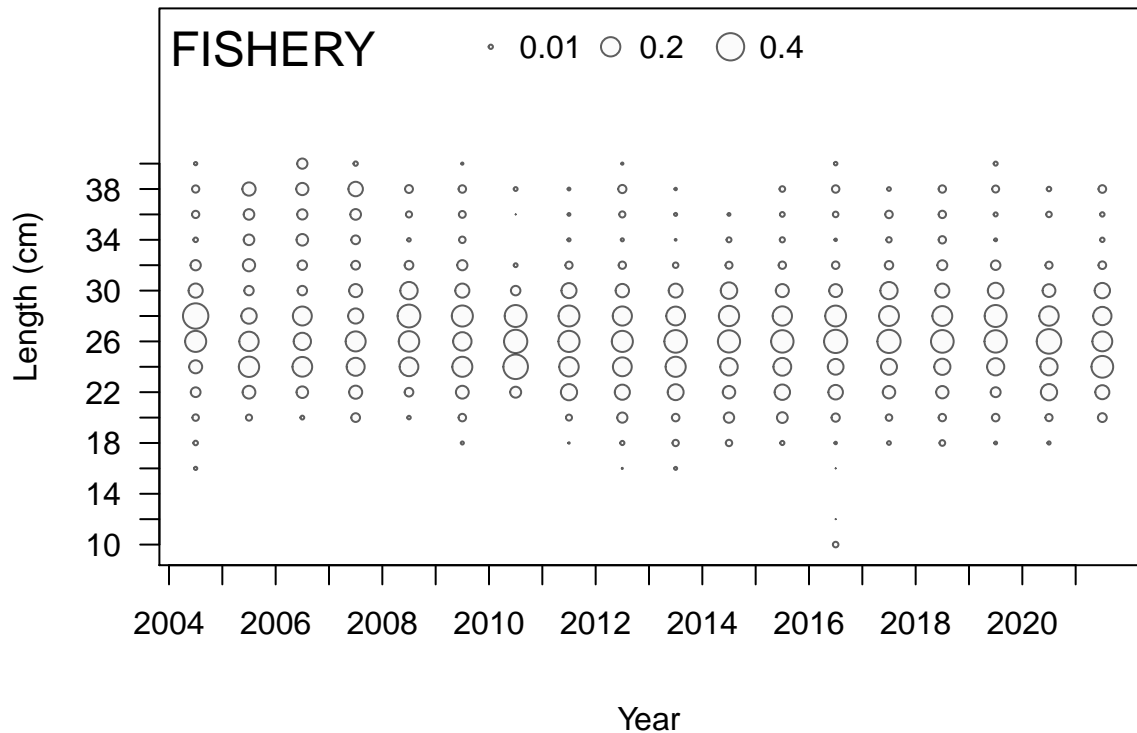


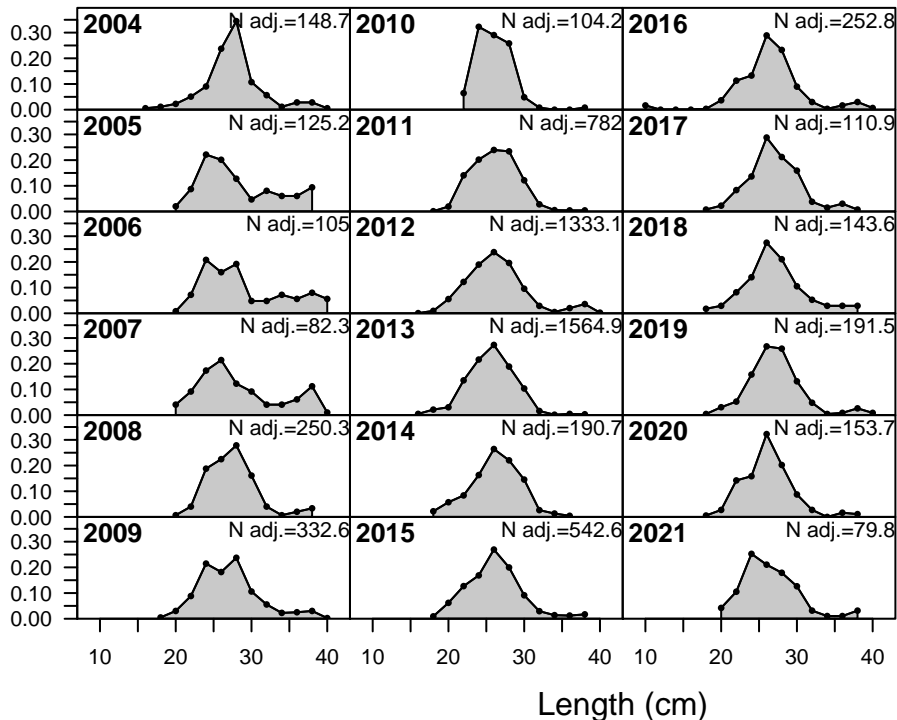


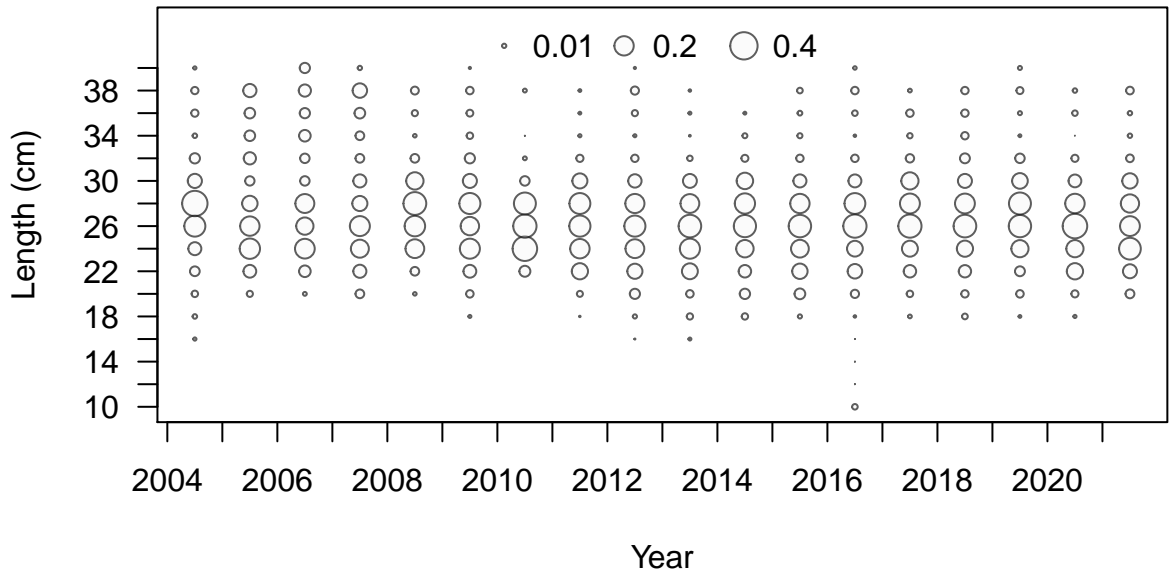
**FISHERY**

Sum of N adj.=6494





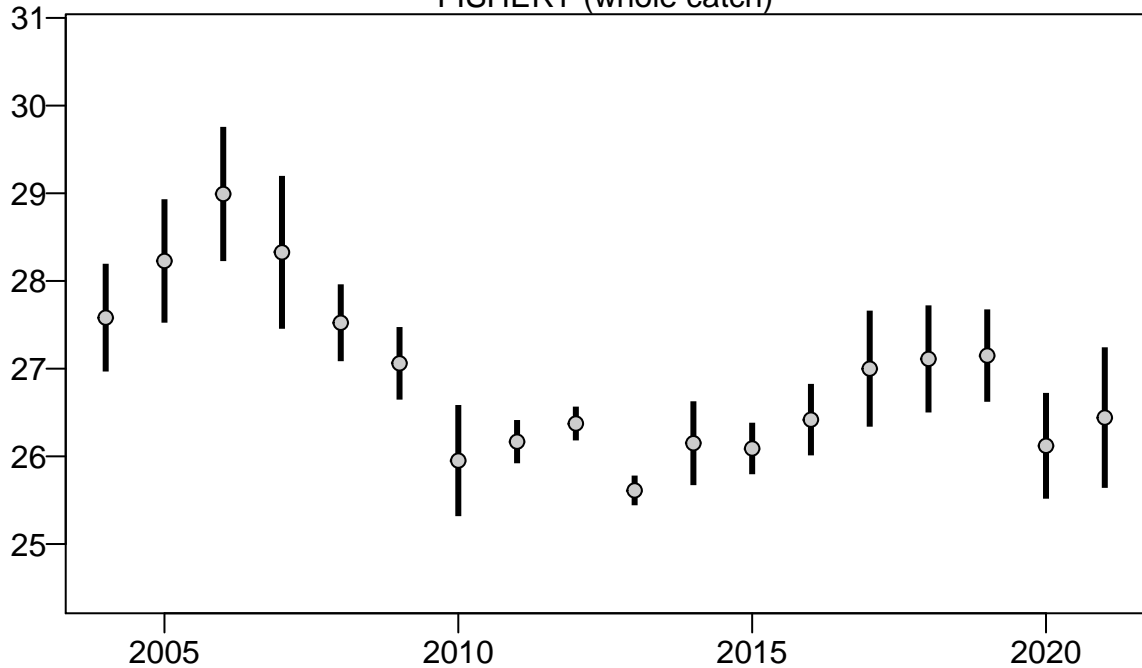


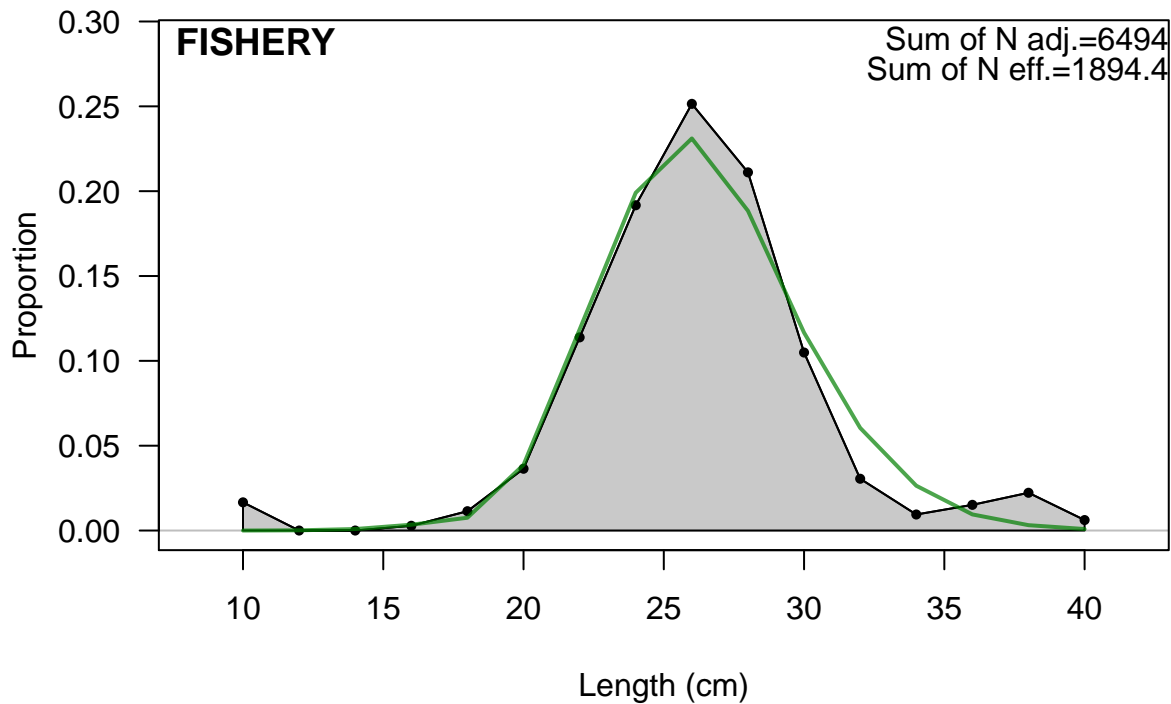


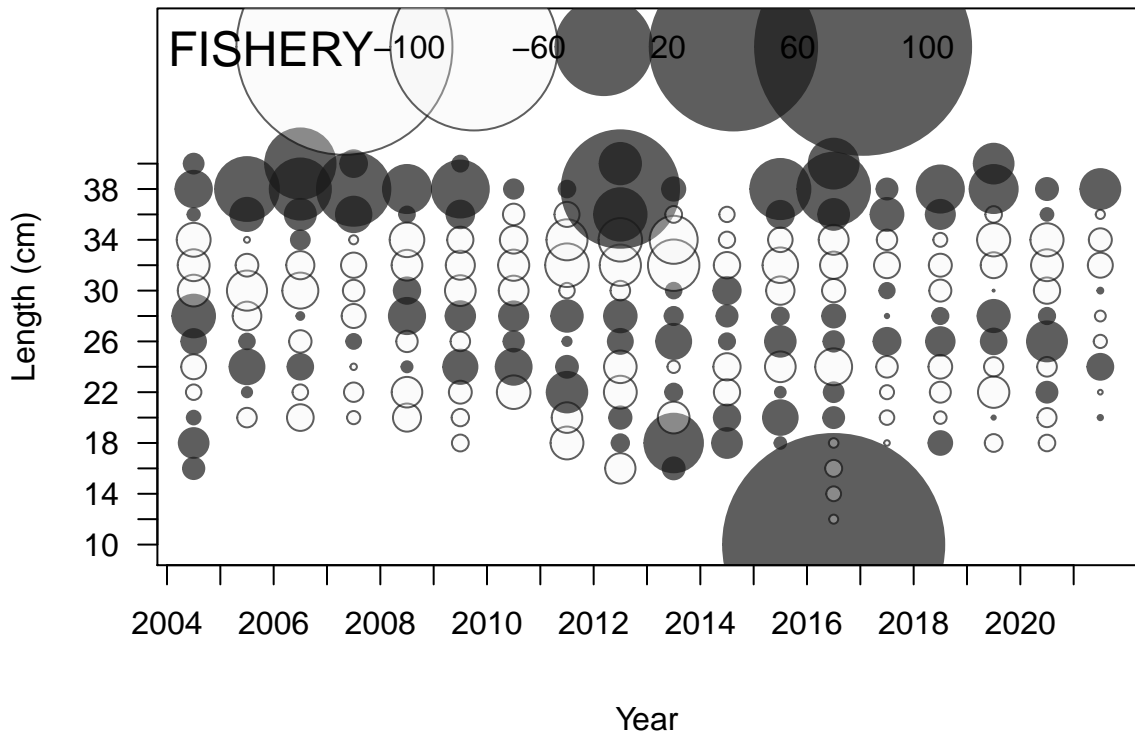
## FISHERY (whole catch)

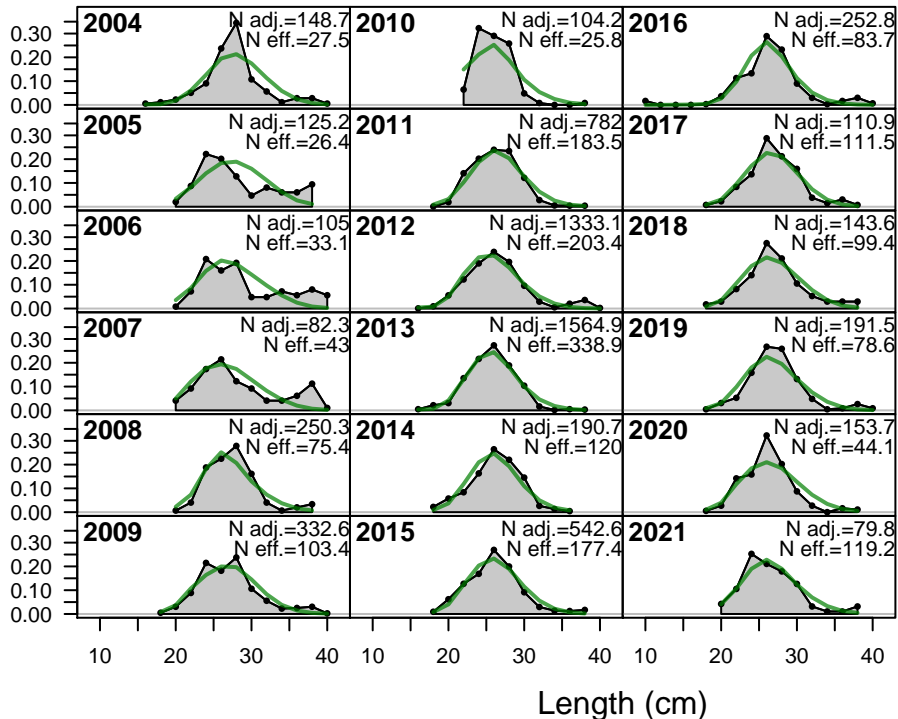
Mean length

Year

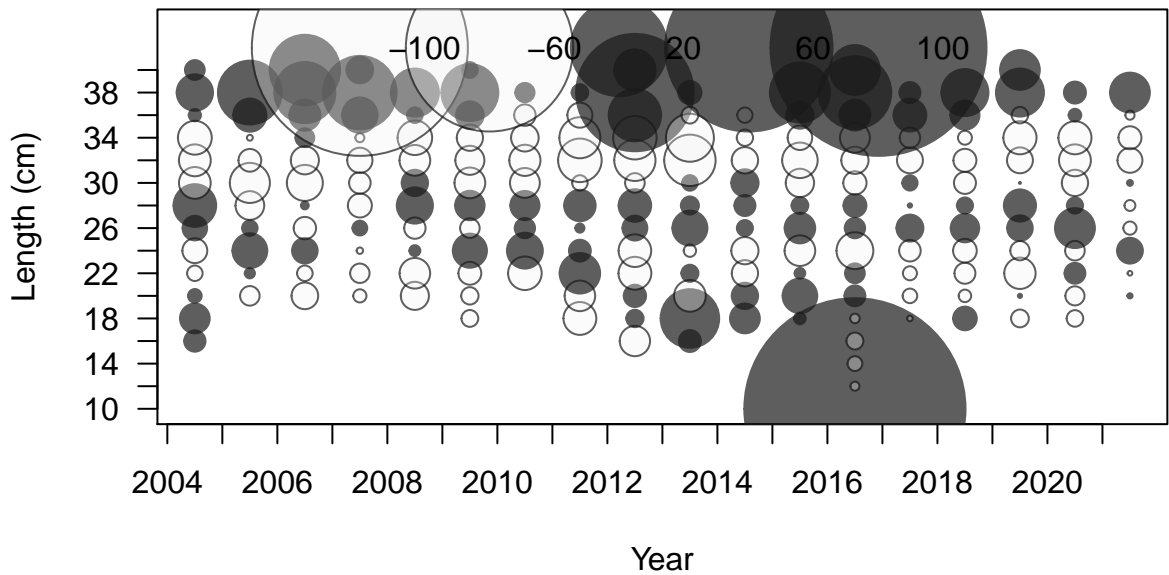




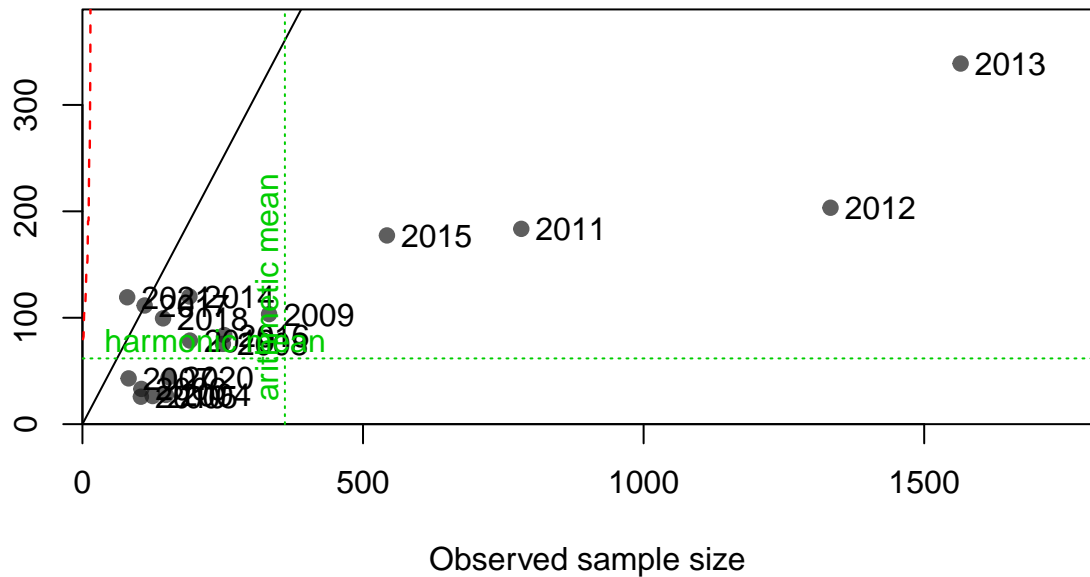








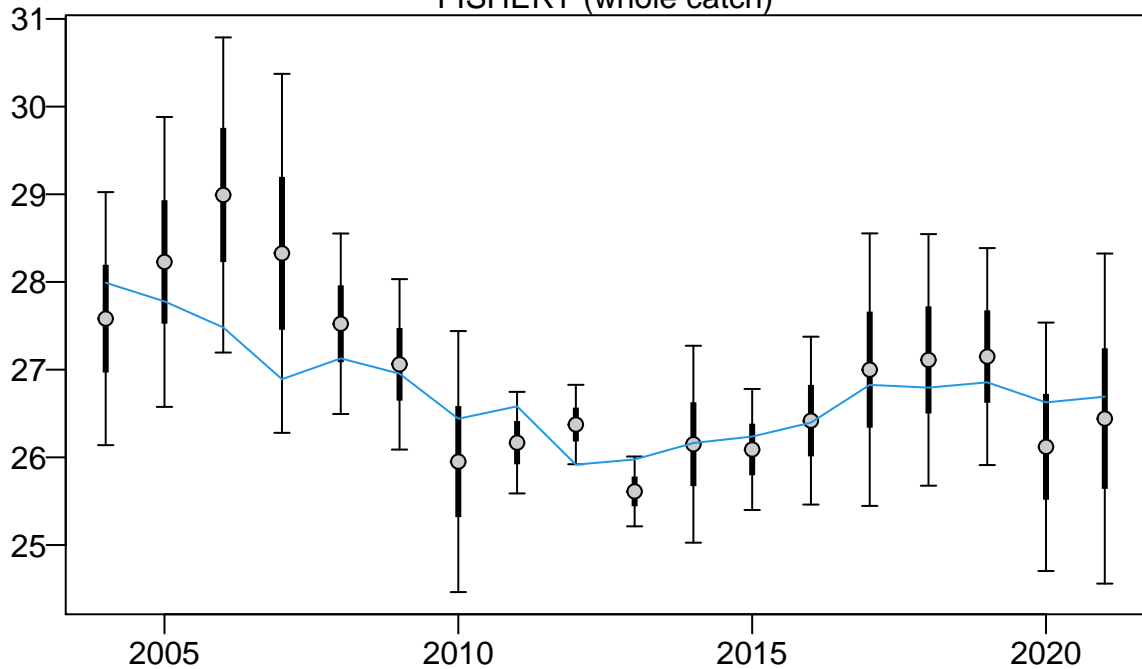
Effective sample size

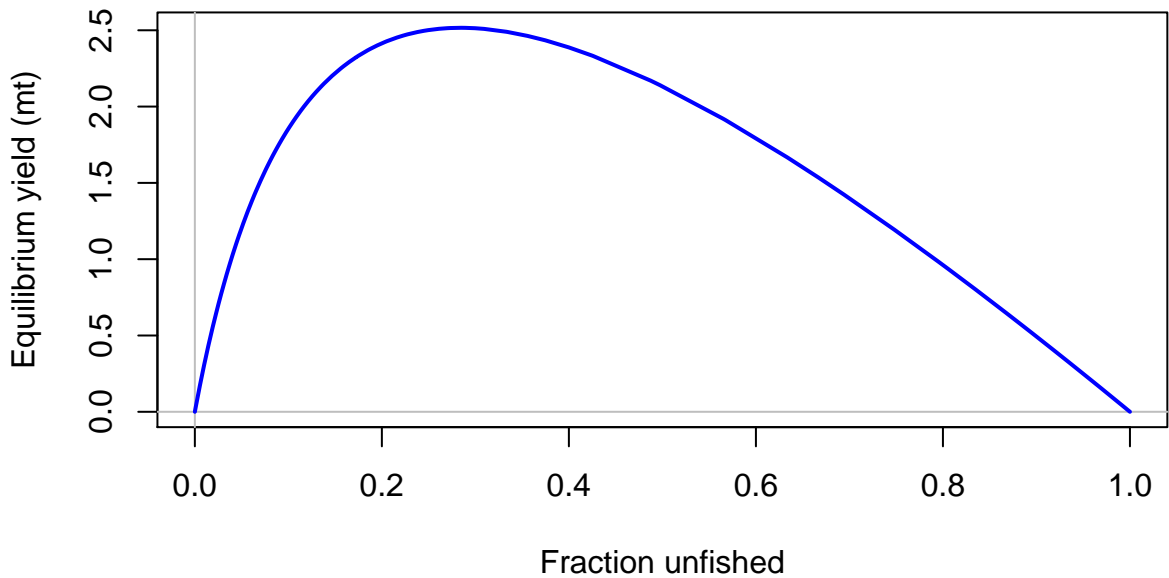


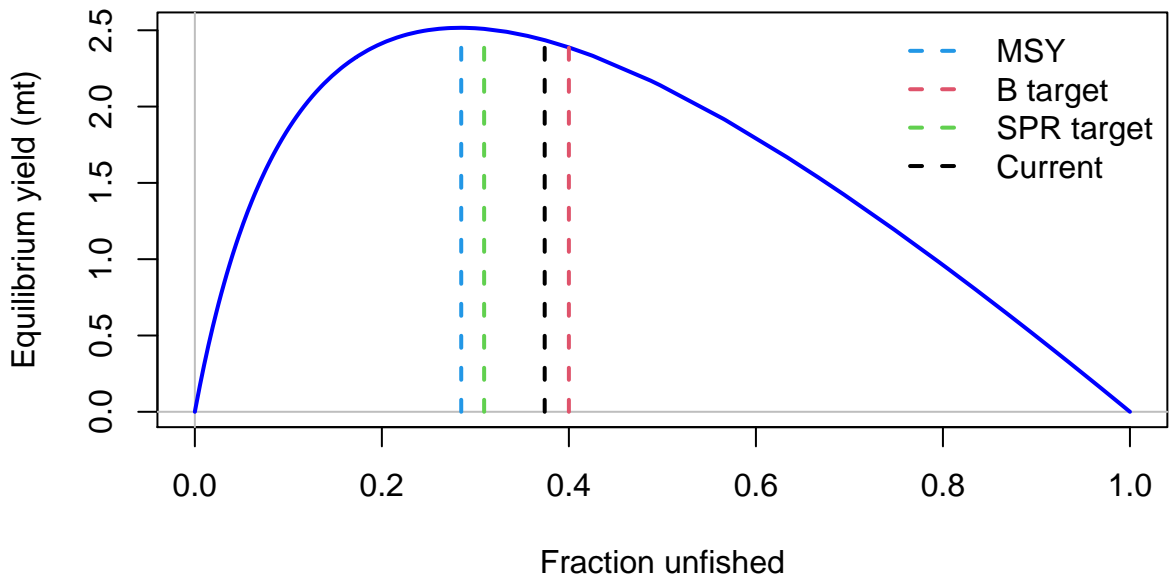
FISHERY (whole catch)

Mean length

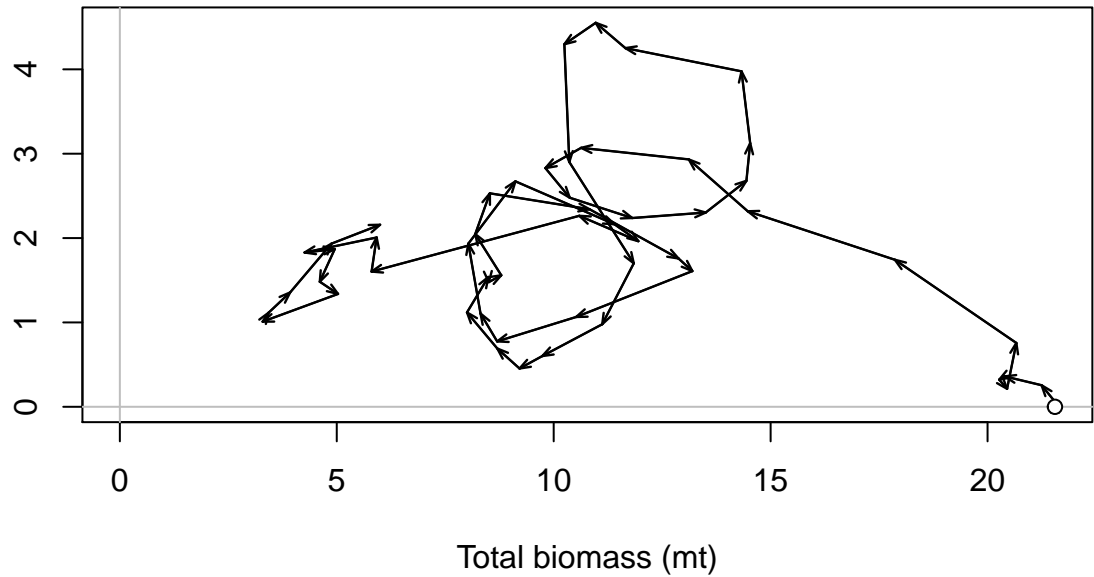
Year

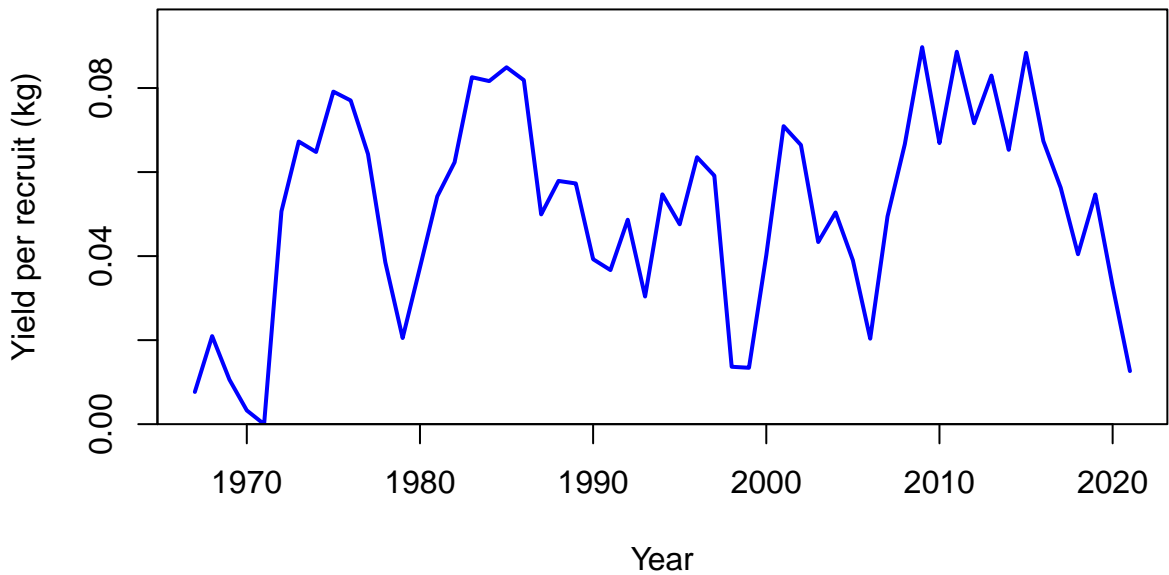


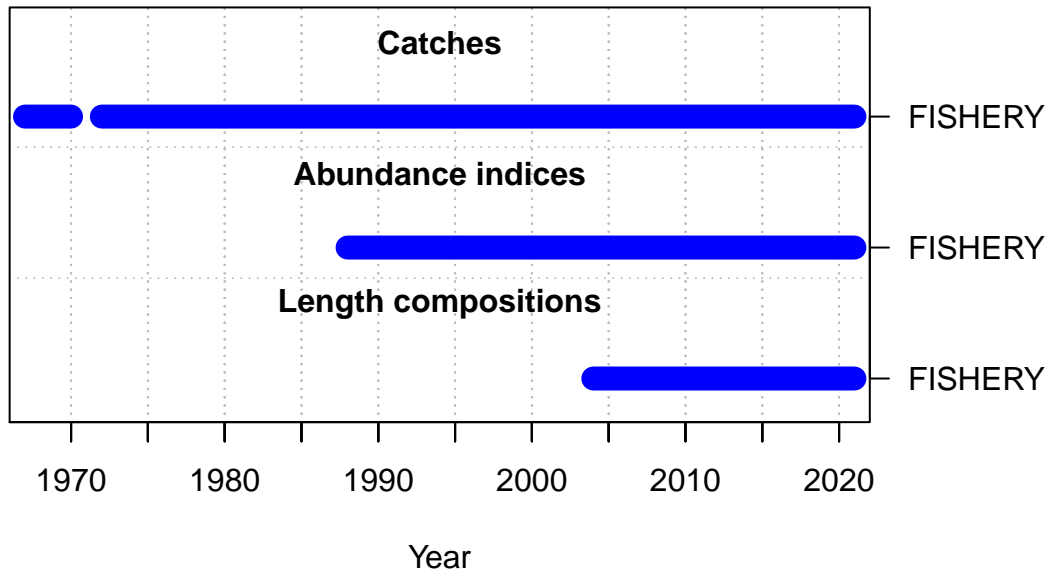




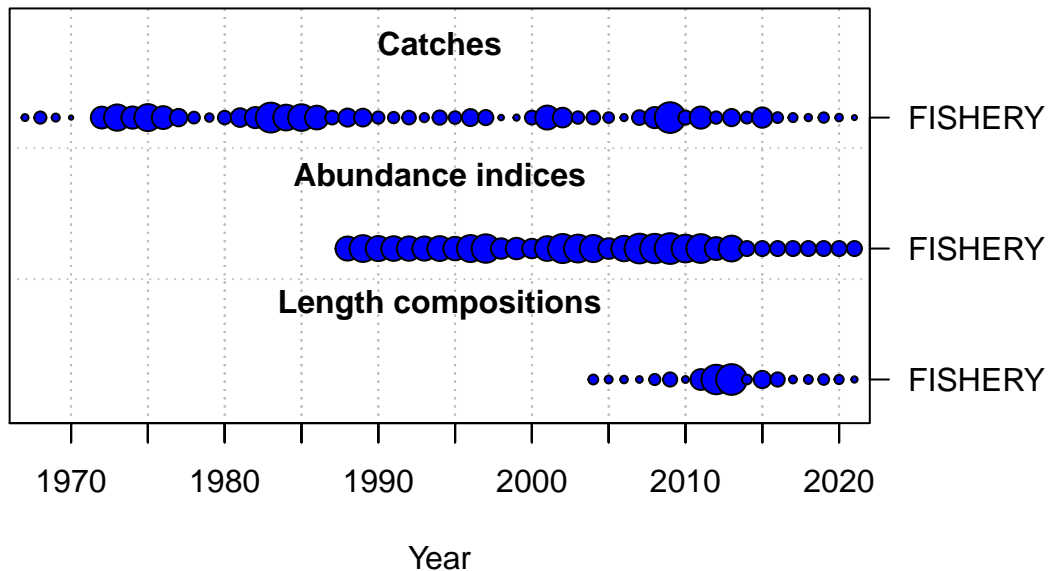
Surplus production (mt)











Density

