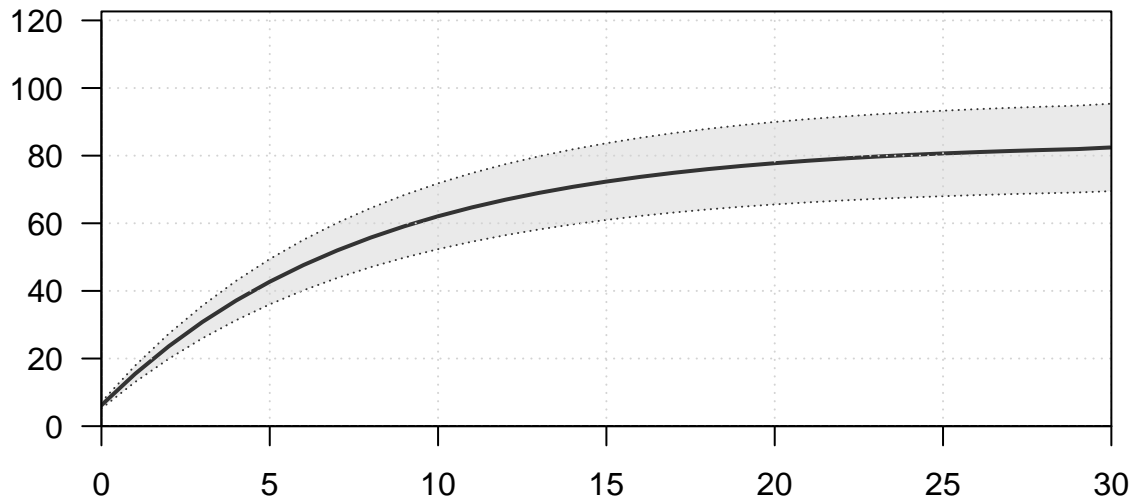
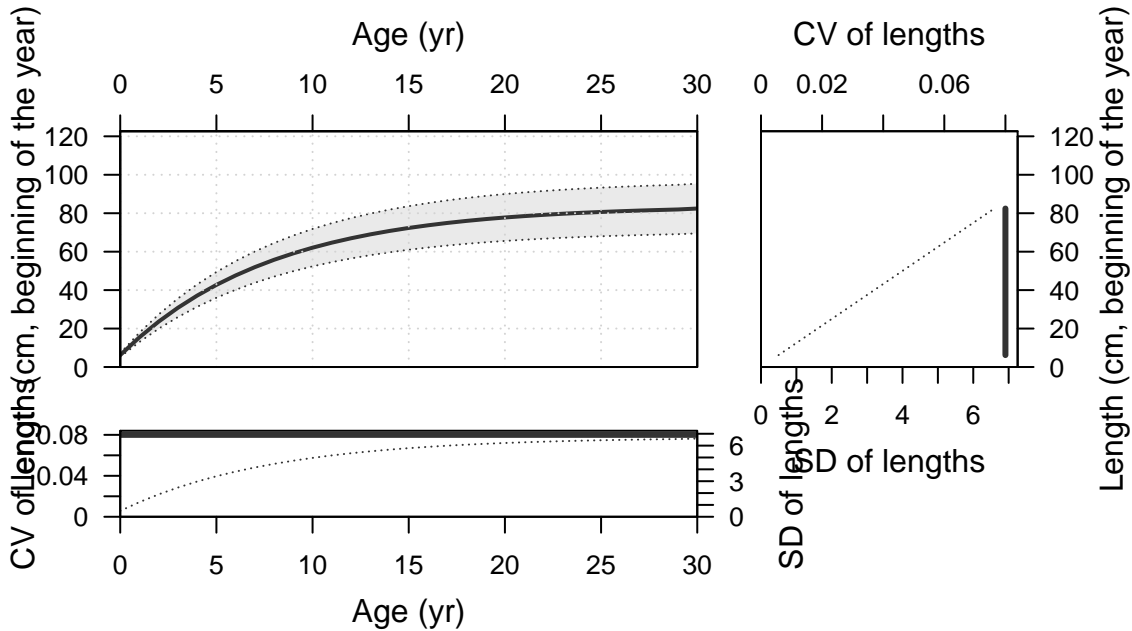


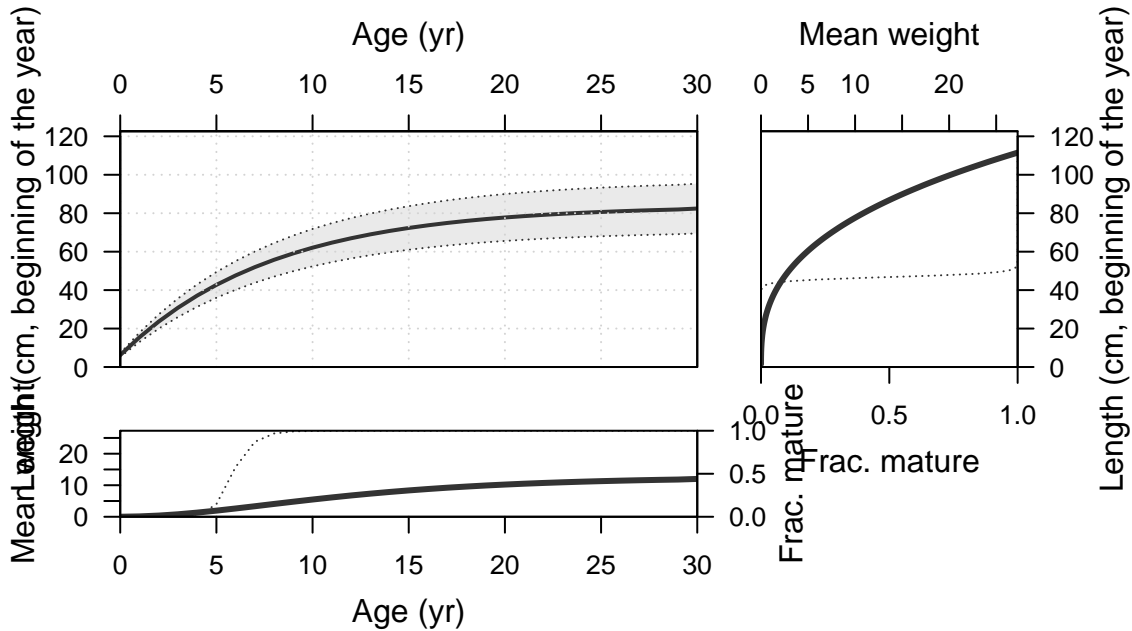
Plots created using the 'r4ss' package in R  
Stock Synthesis version: 3.30.19.0  
StartTime: Wed Jul 27 10:30:26 2022  
Data\_File: data.ss  
Control\_File: control.ss

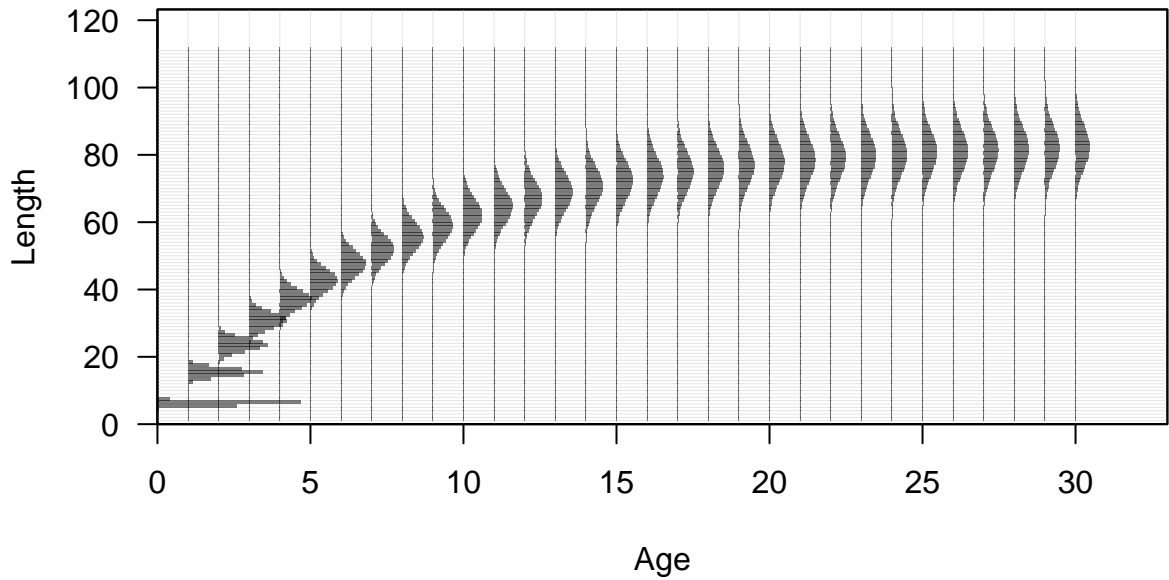
Length (cm, beginning of the year)

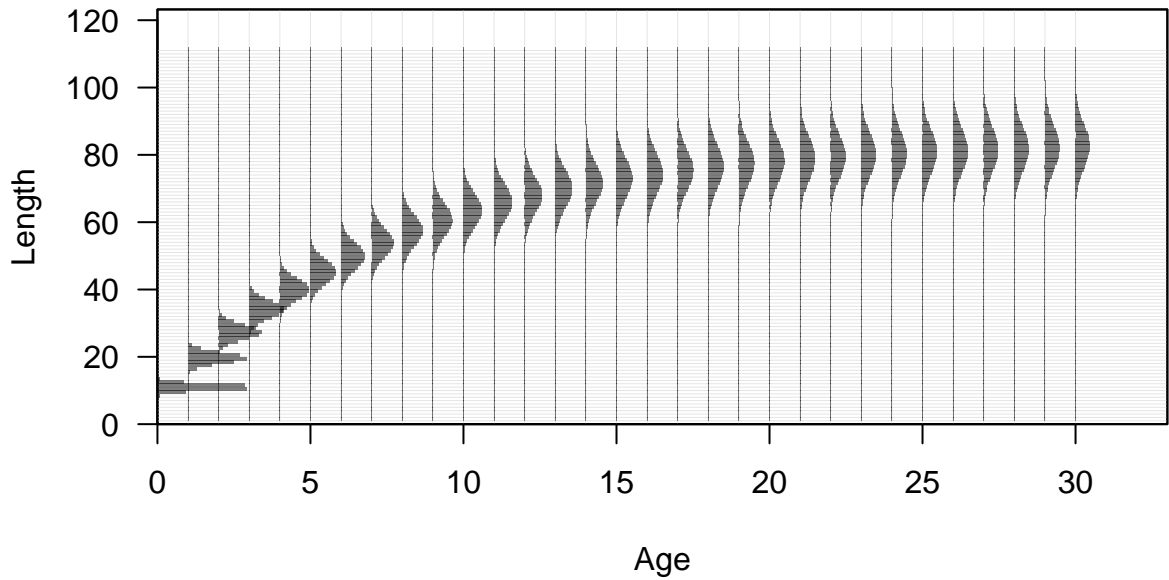


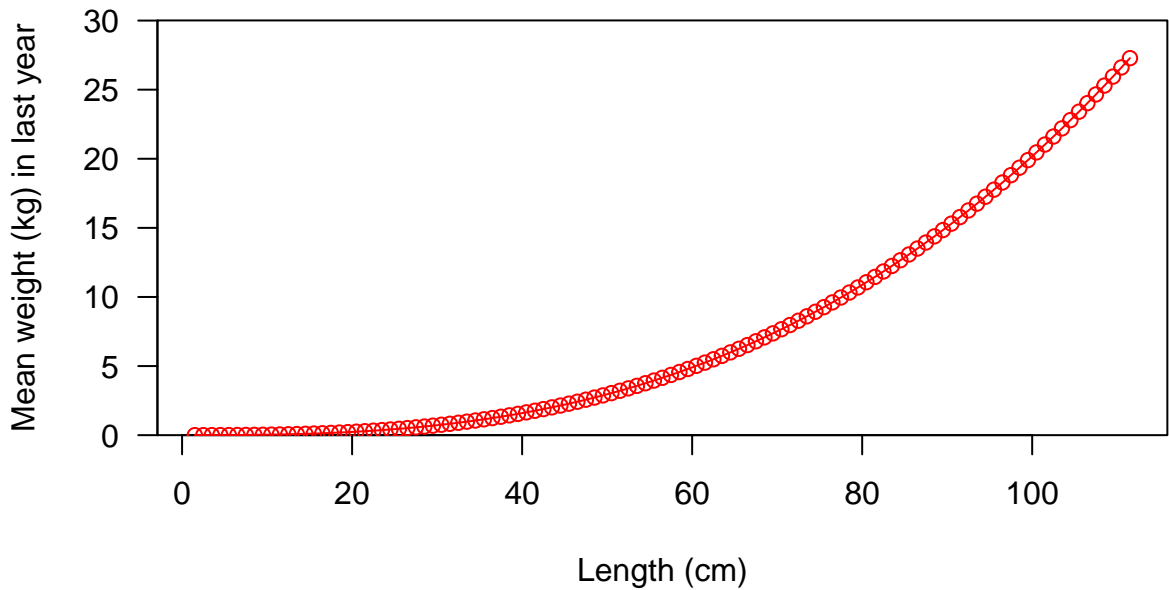
Age (yr)

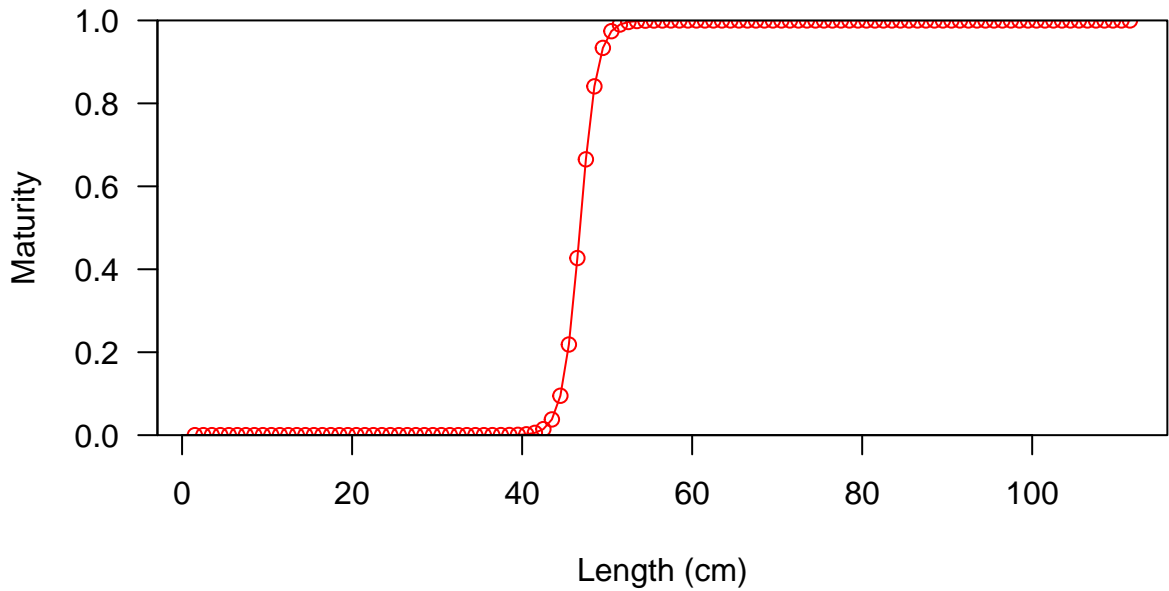




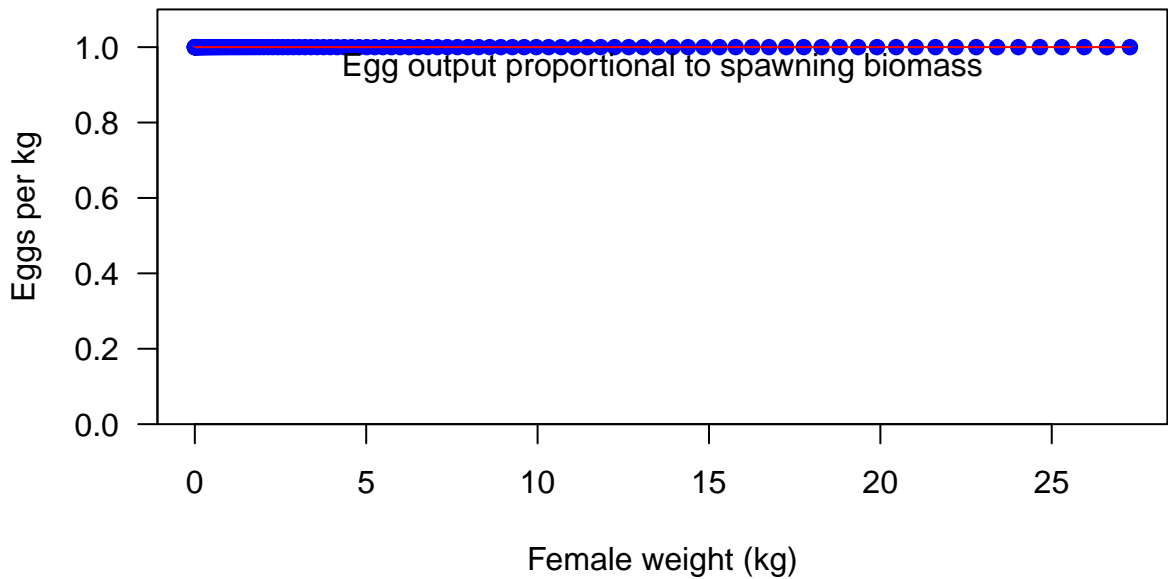


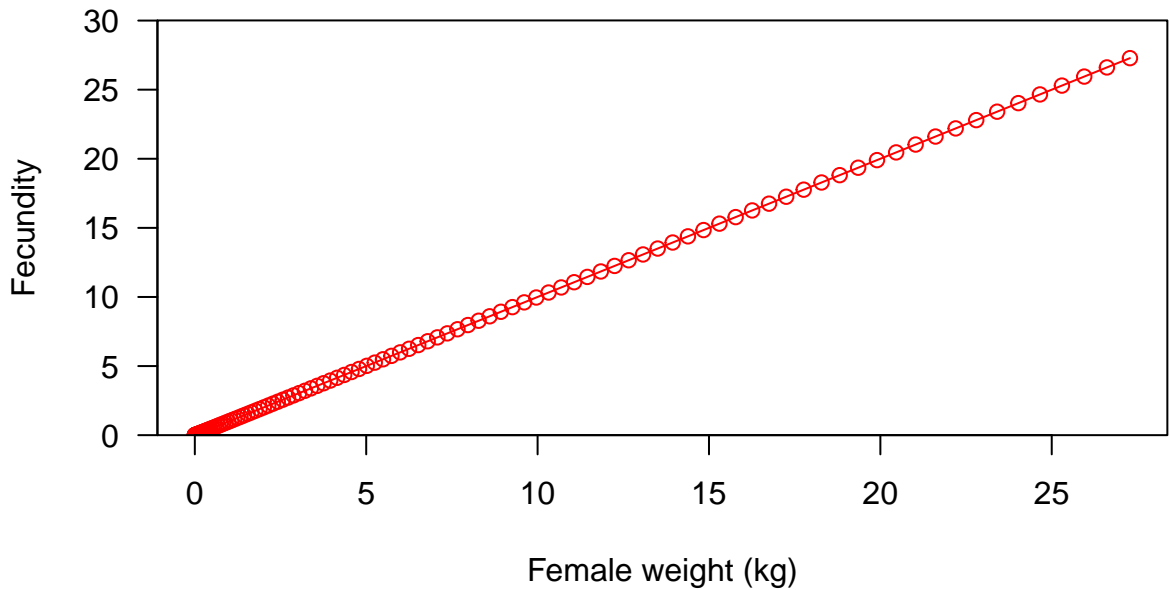




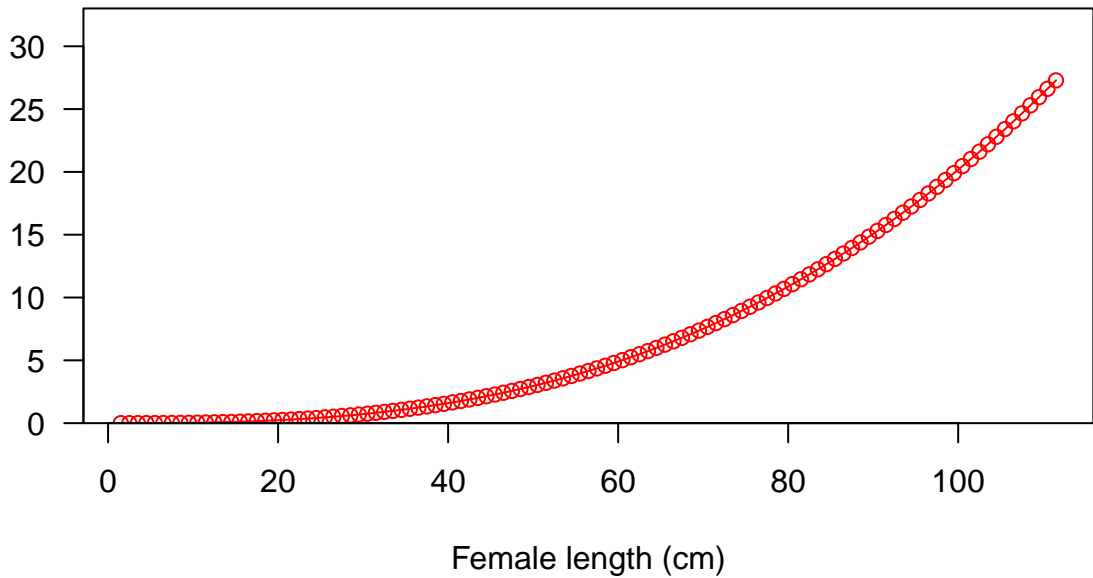


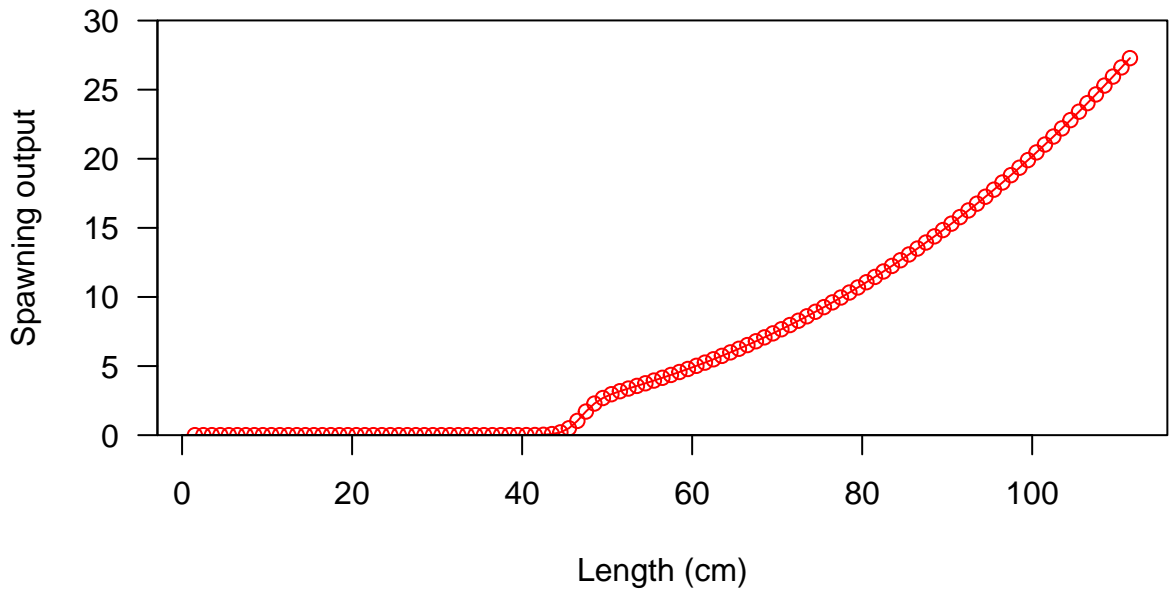




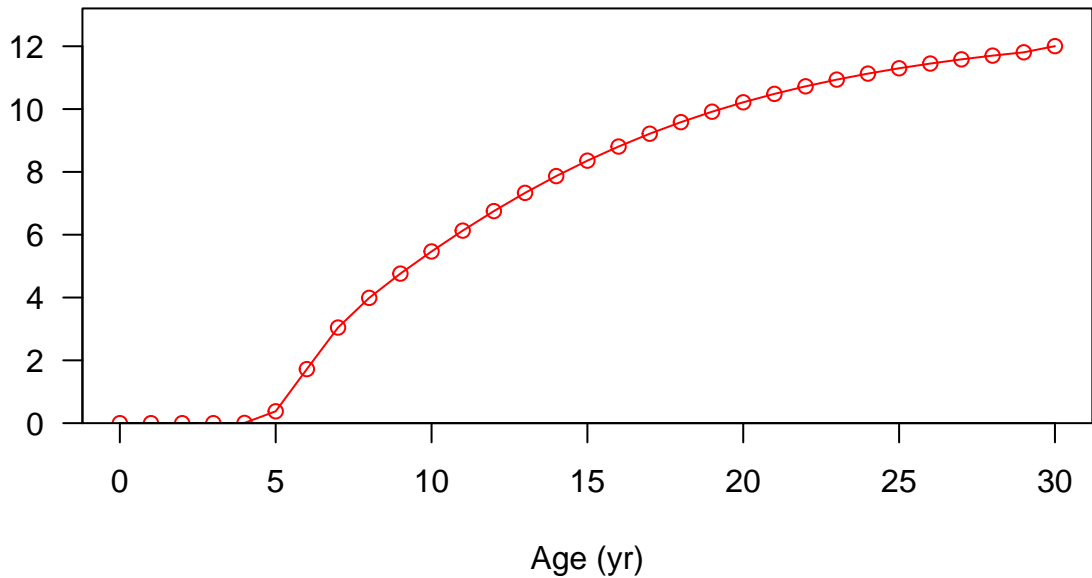


Fecundity

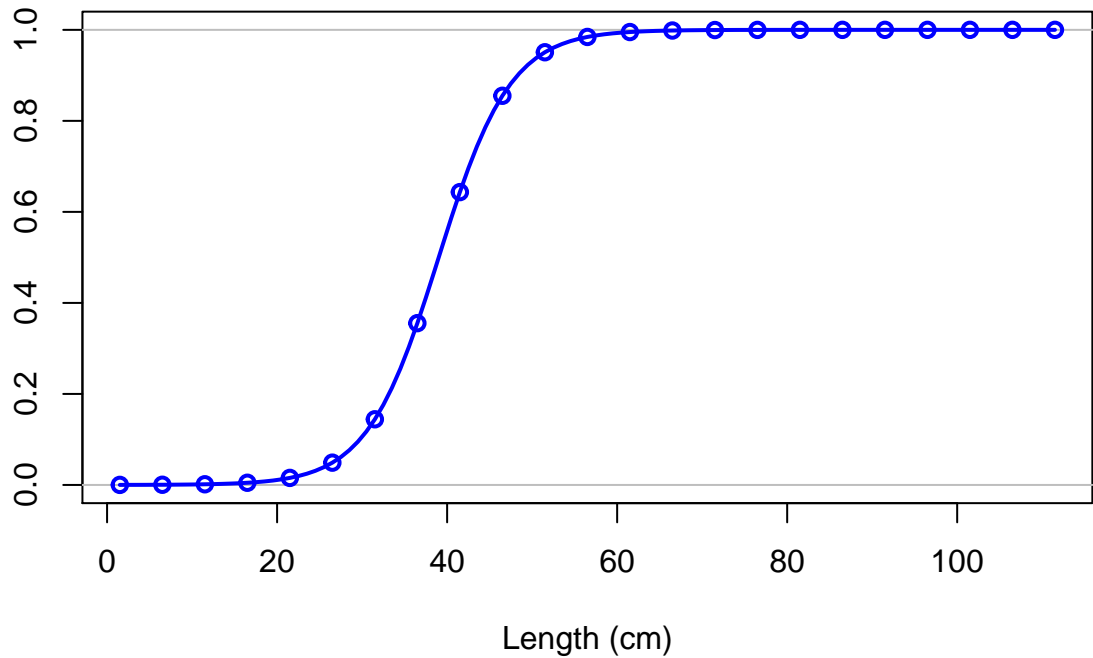




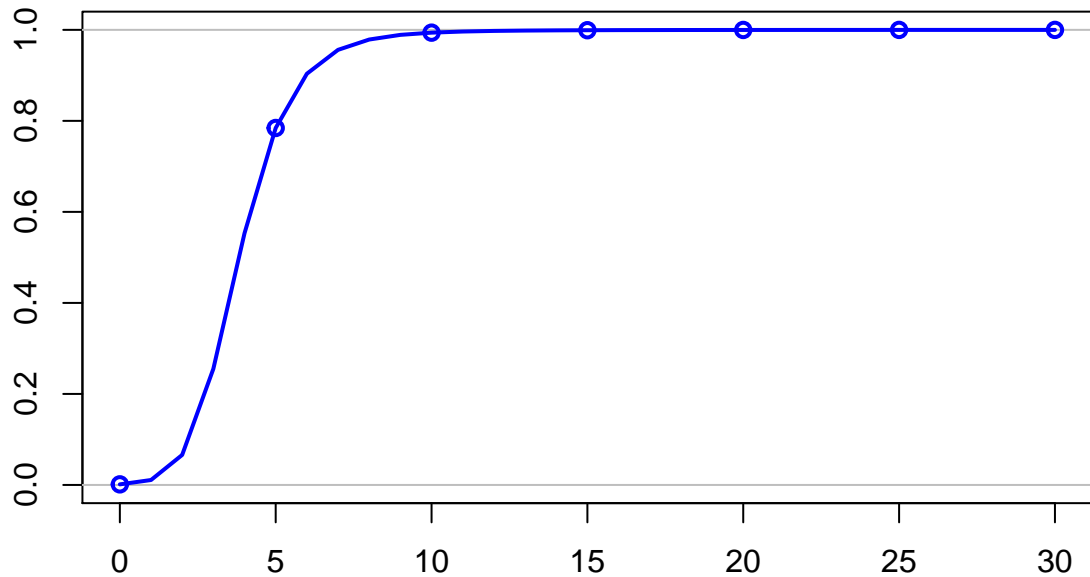
Spawning output



Selectivity

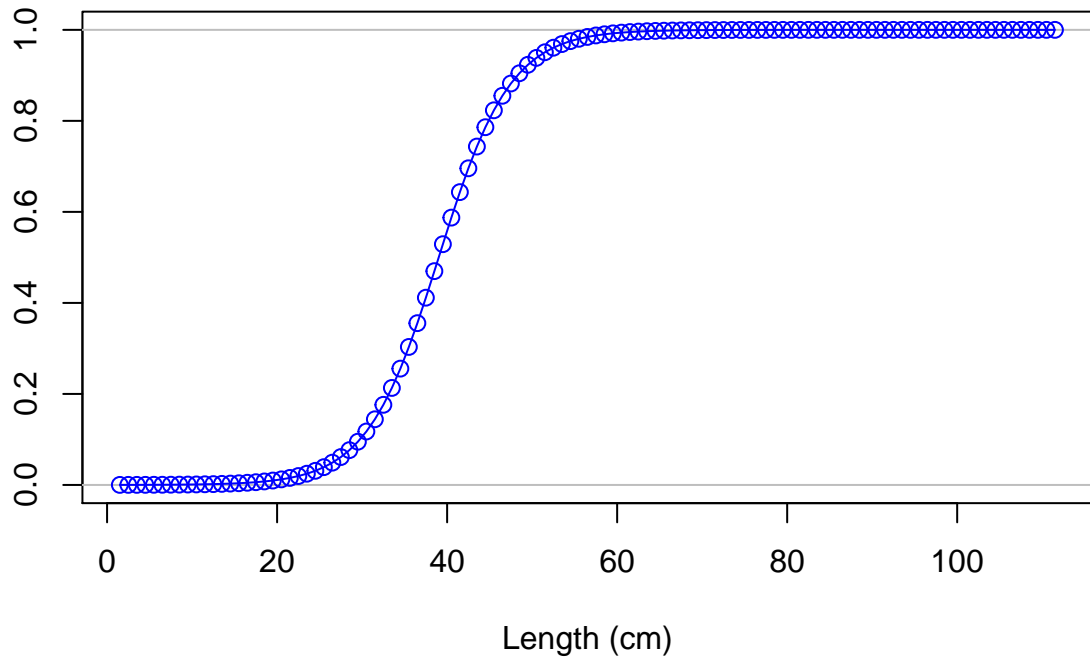


Selectivity

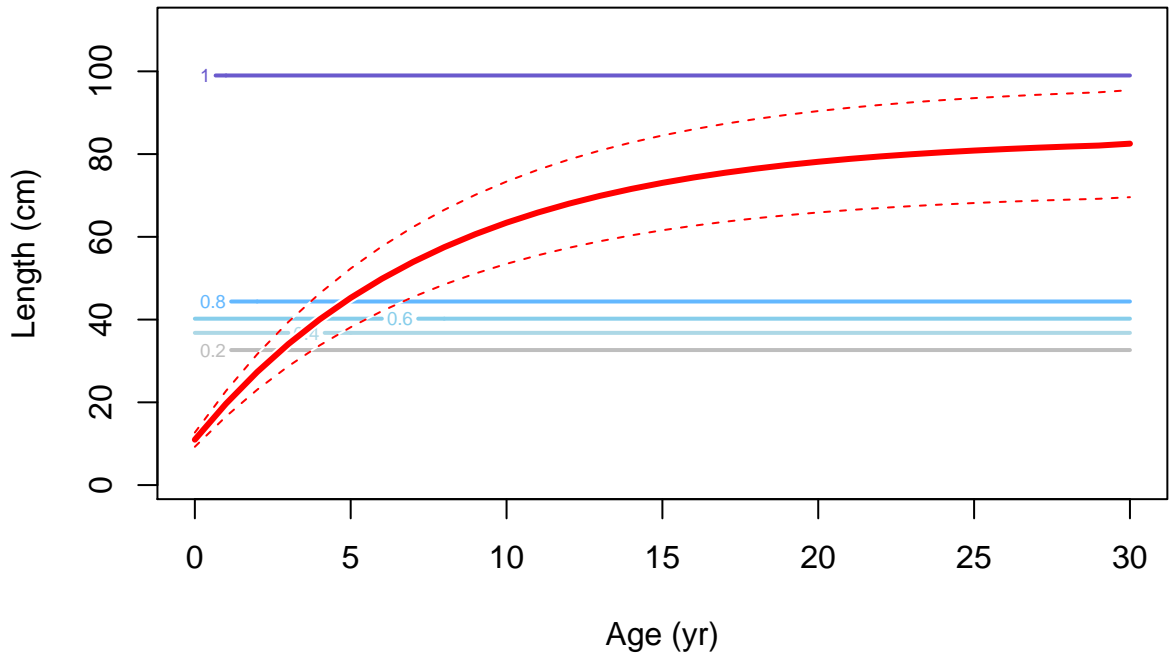


Age (yr)

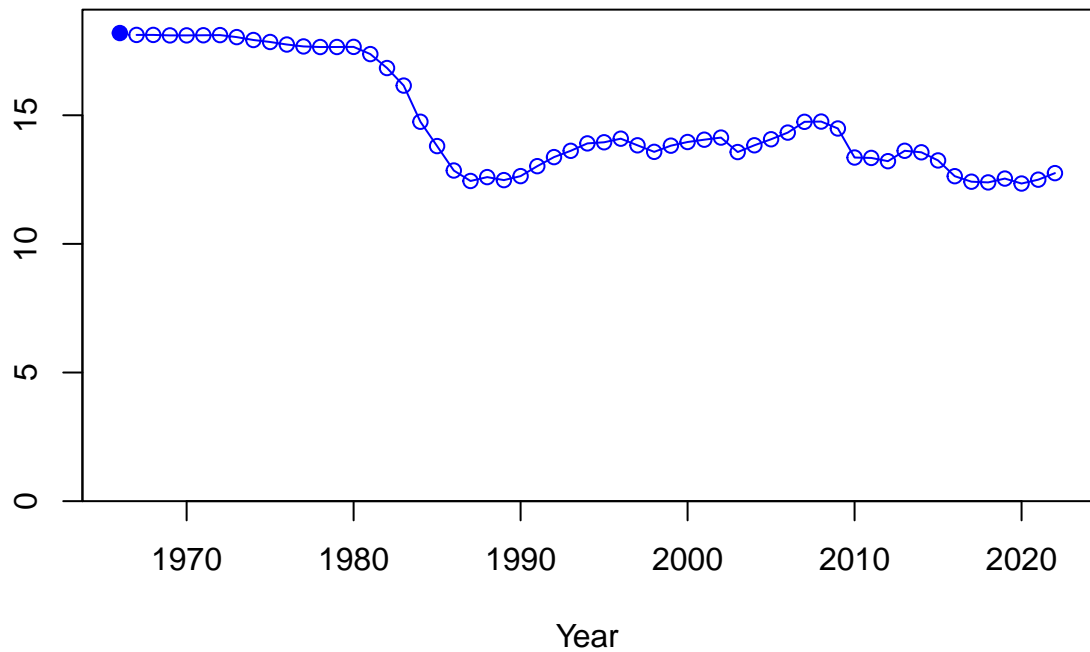
Selectivity

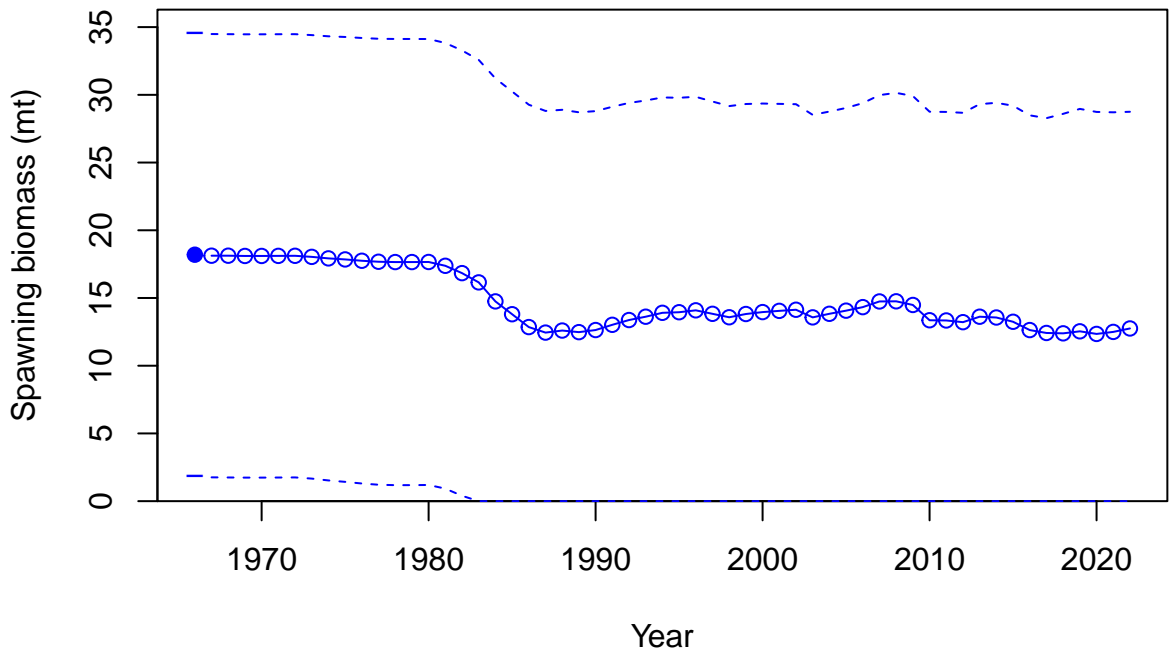




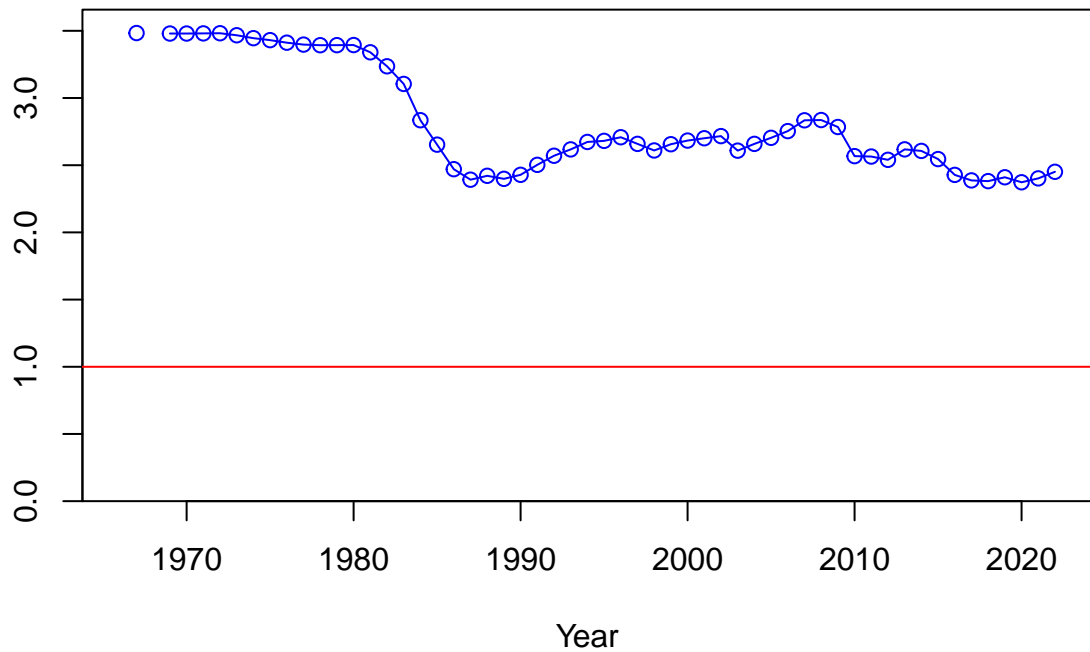


Spawning biomass (mt)

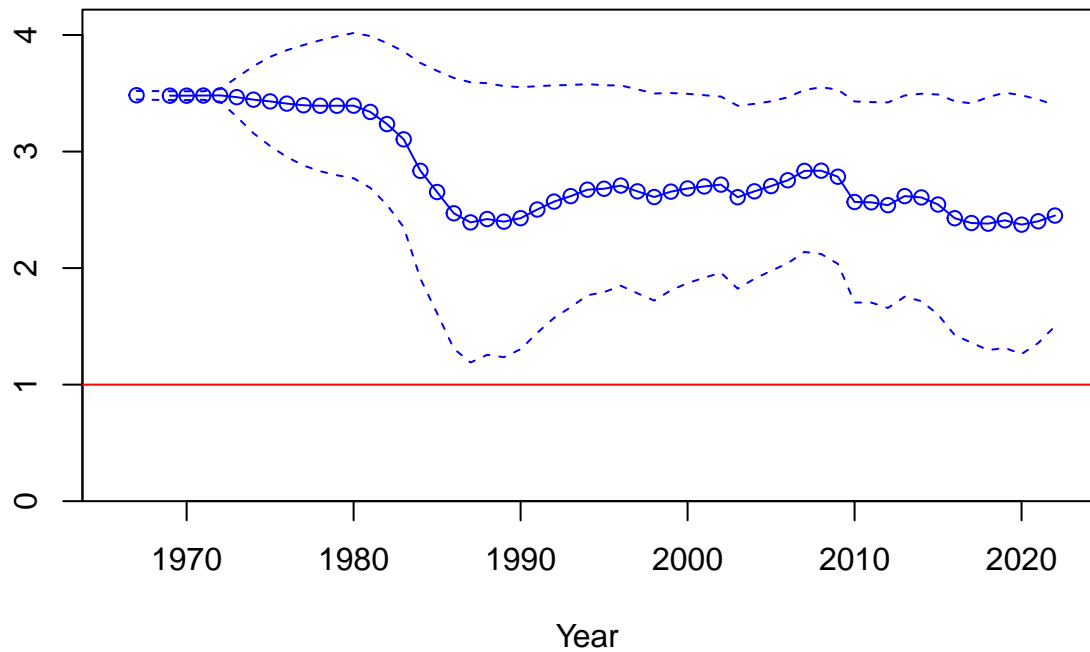


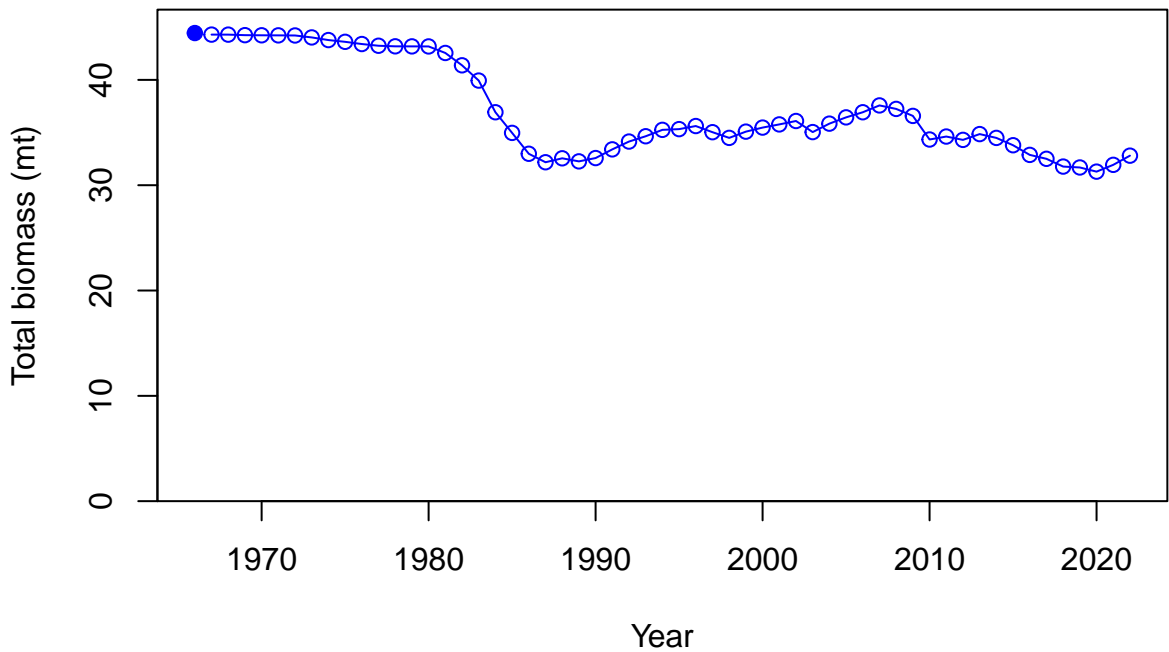


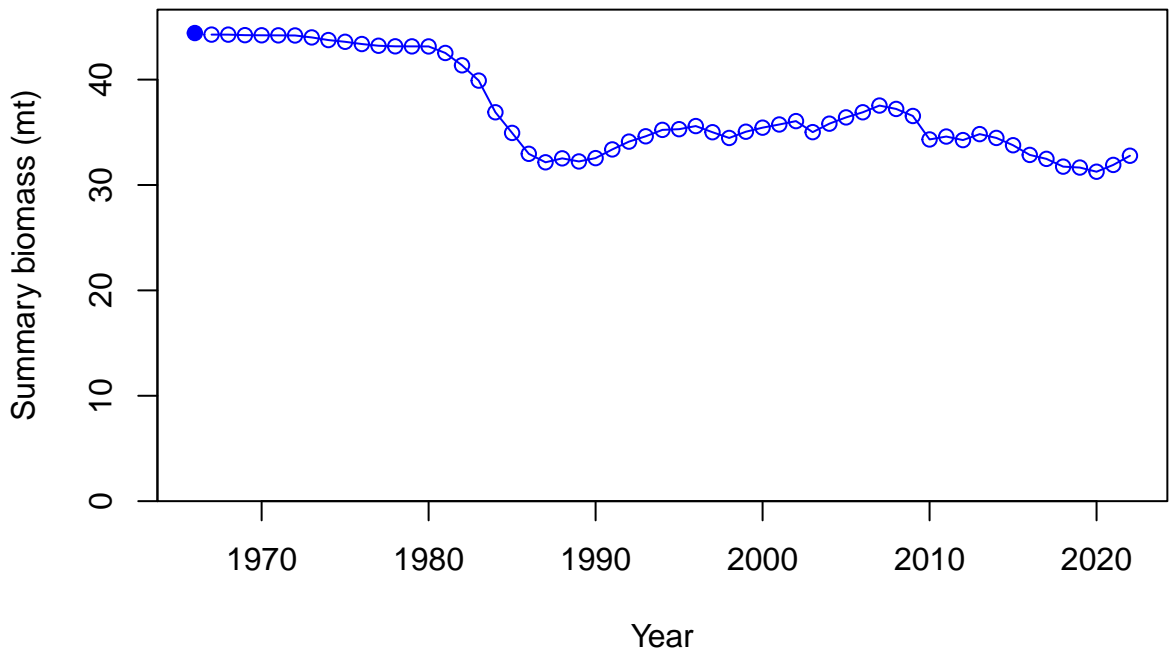
Relative spawning biomass:  $B/B_{MSY}$



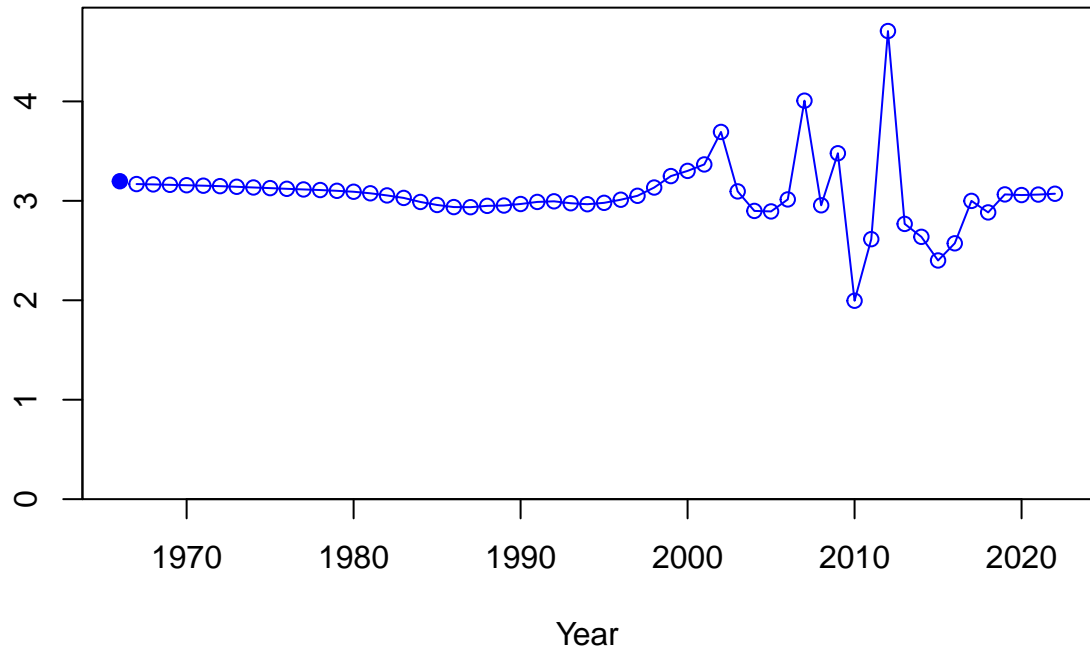
Relative spawning biomass:  $B/B_{MSY}$



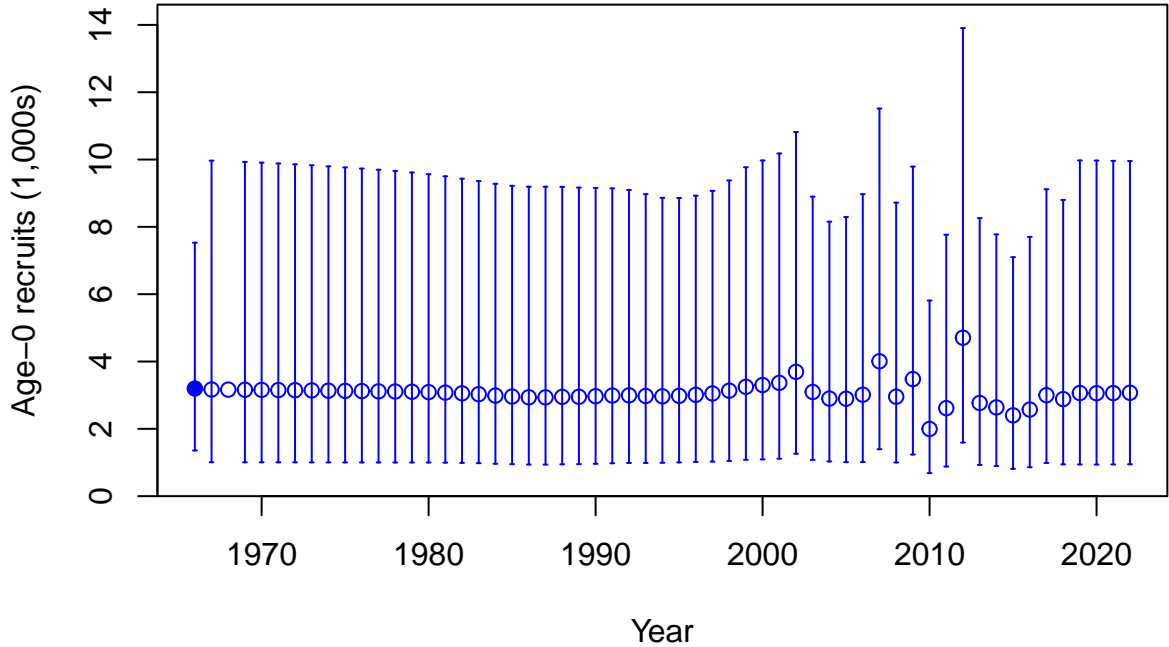




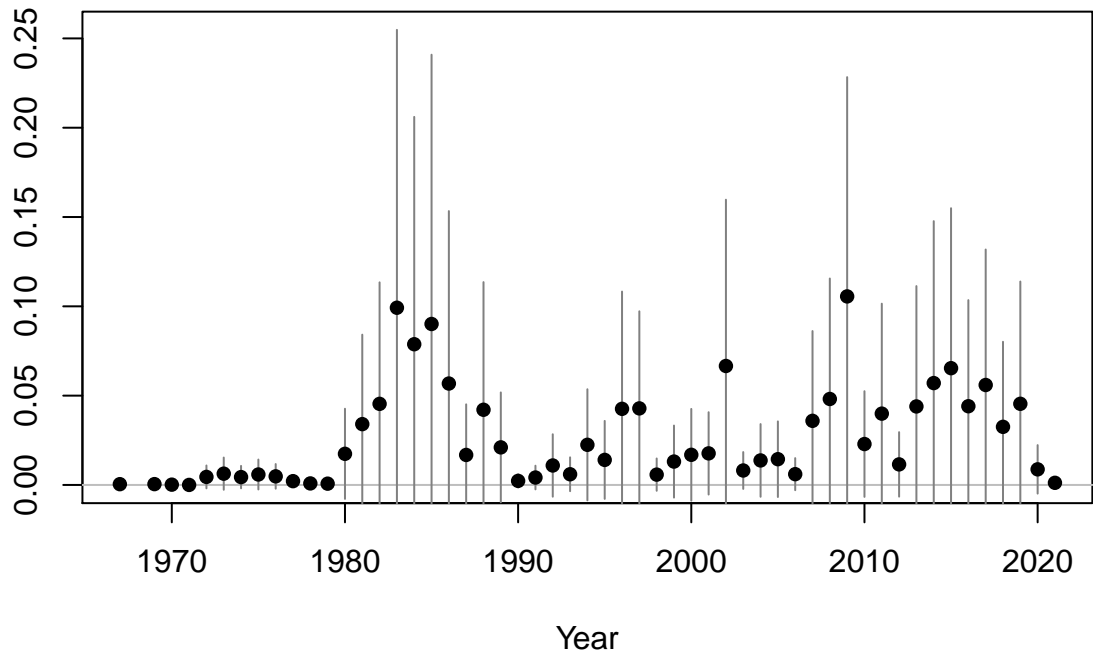
Age-0 recruits (1,000s)

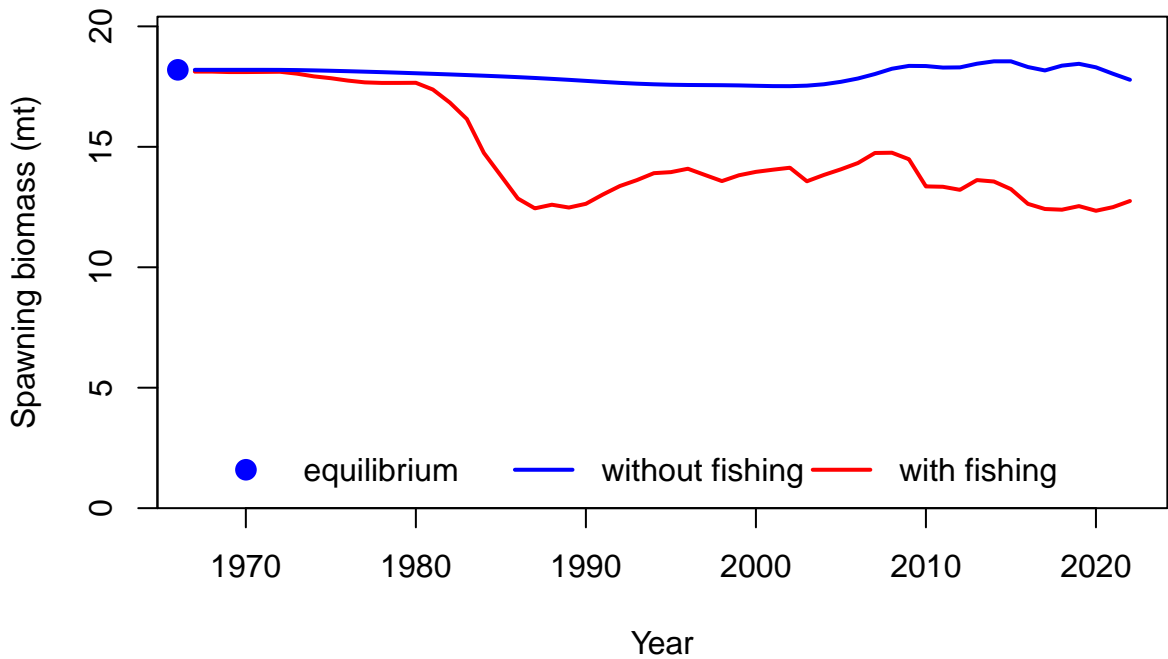




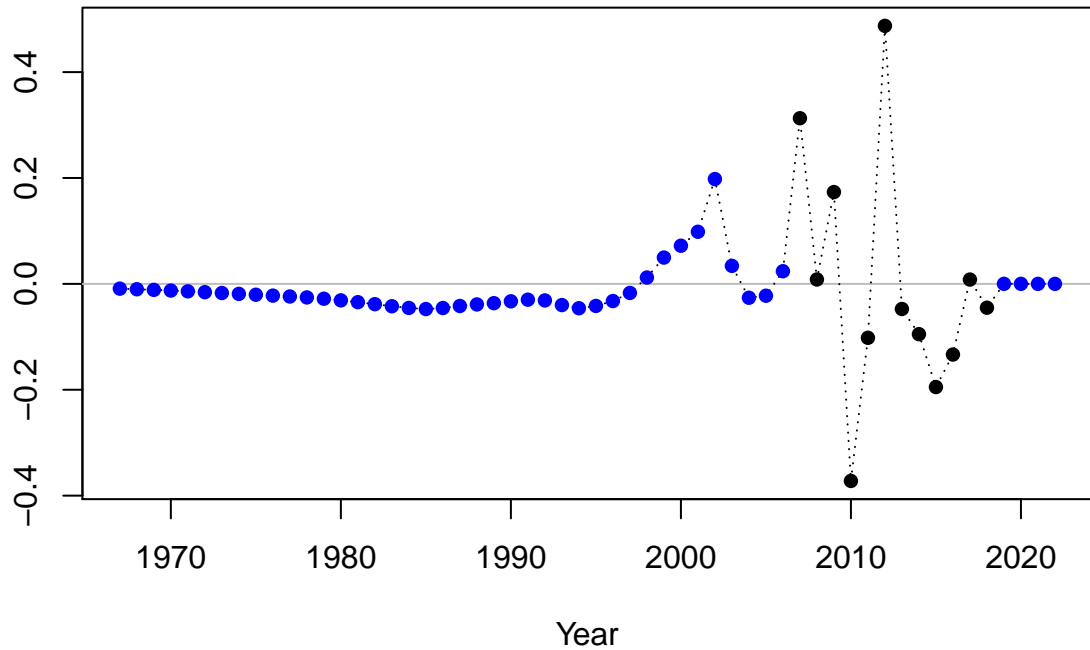


Summary Fishing Mortality

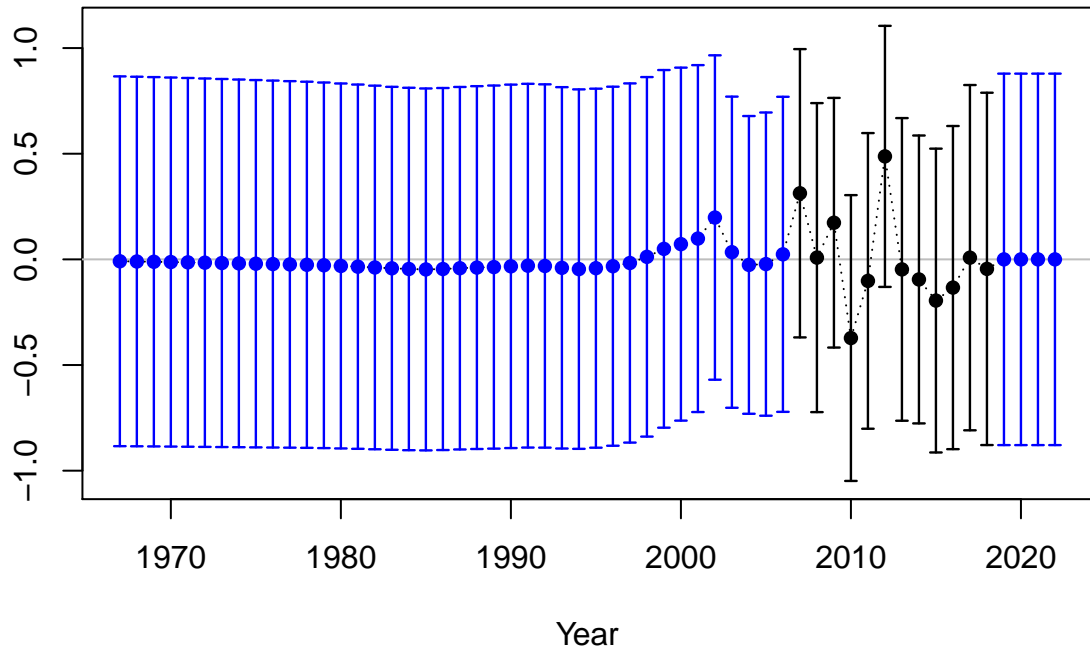




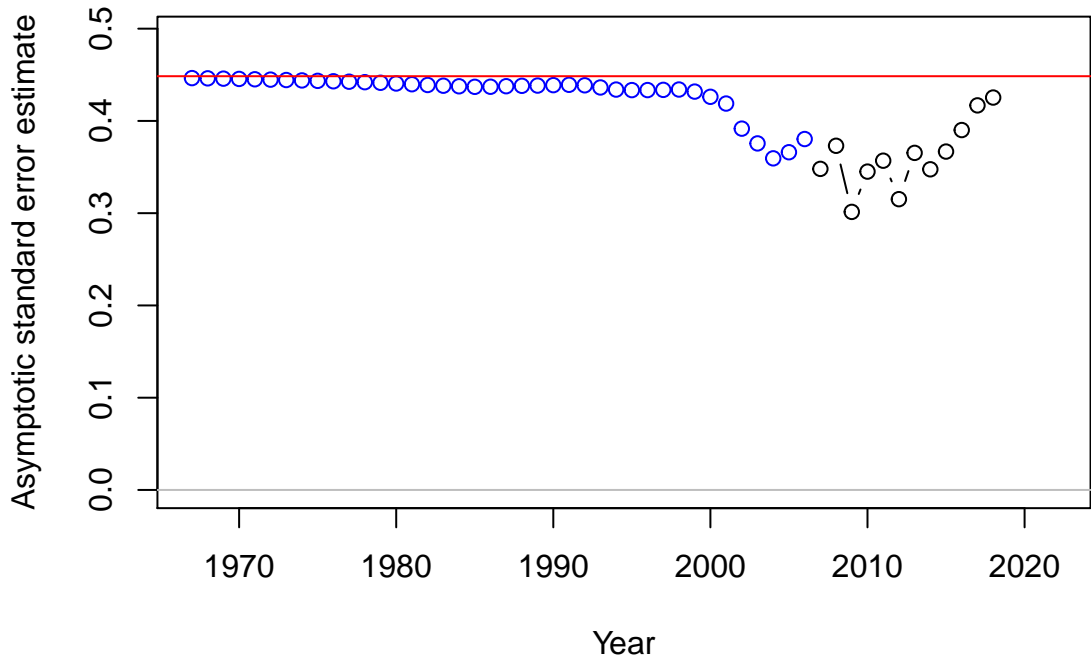
Log recruitment deviation

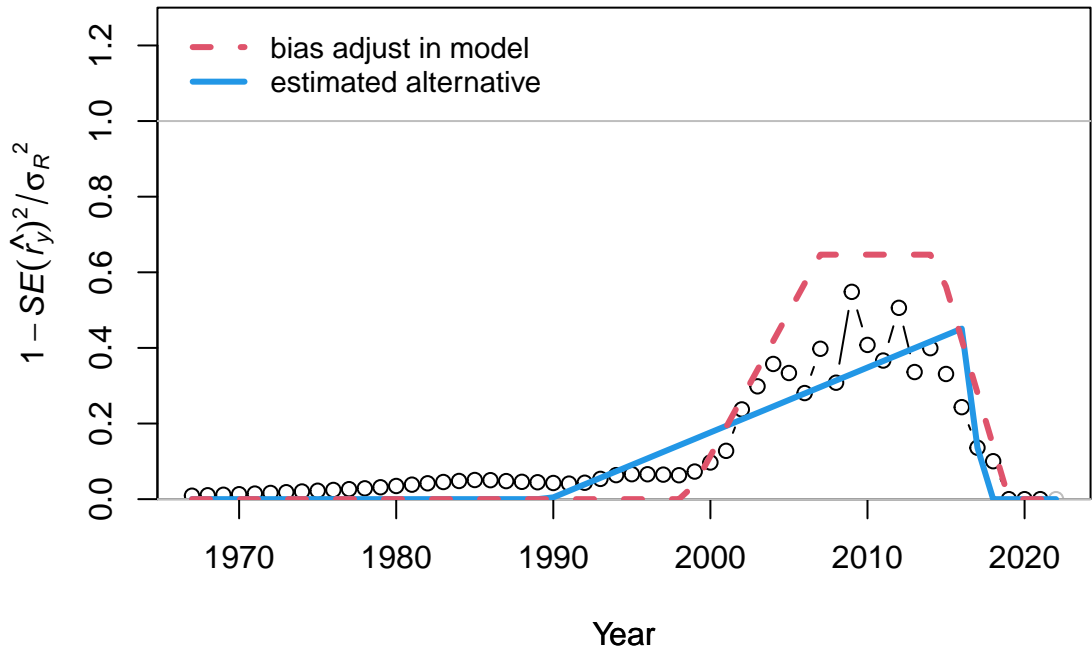


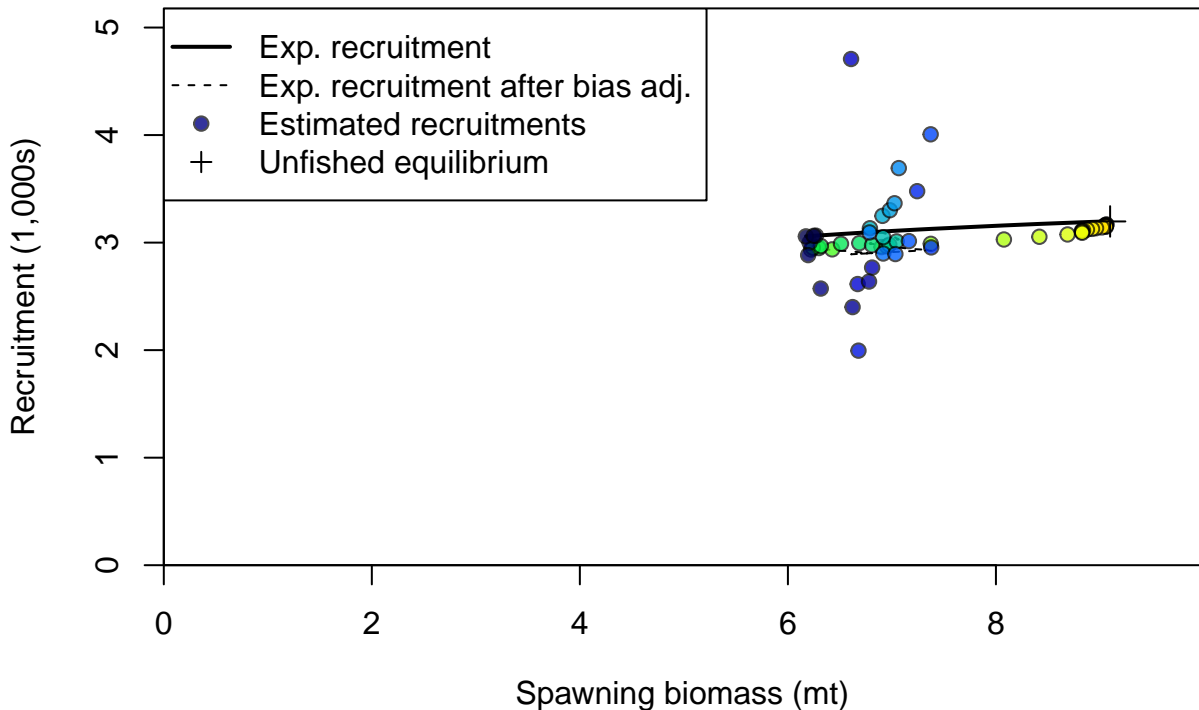
Log recruitment deviation



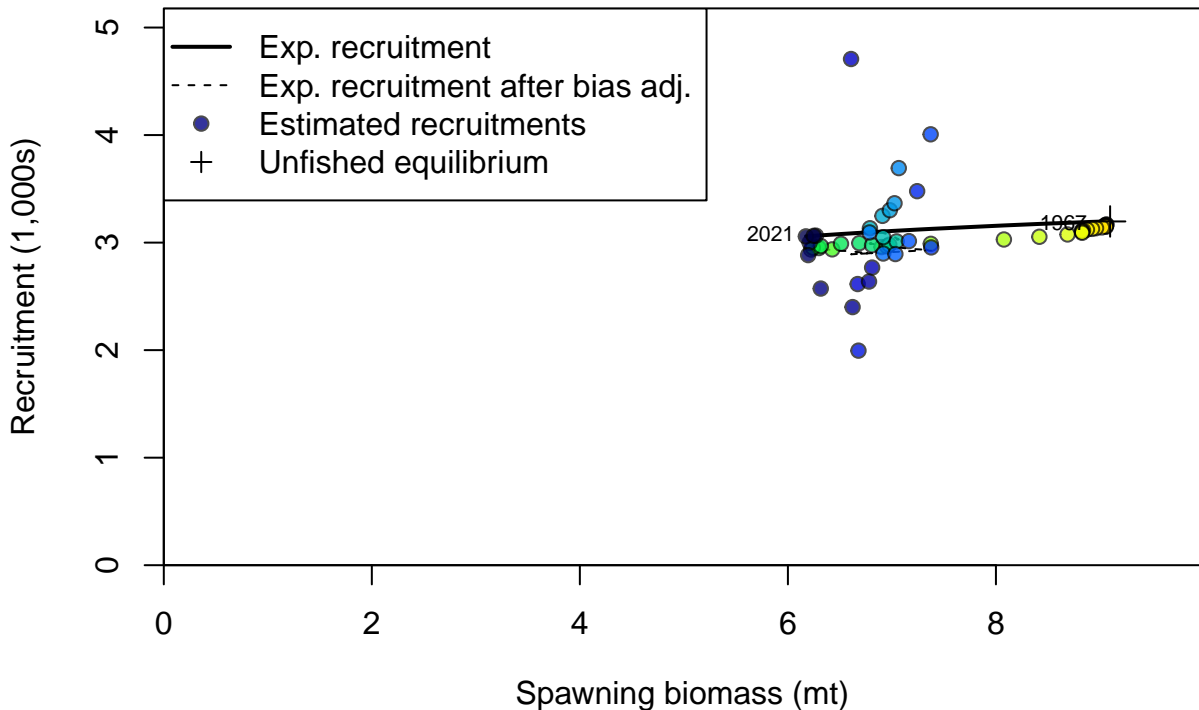
## Recruitment deviation variance

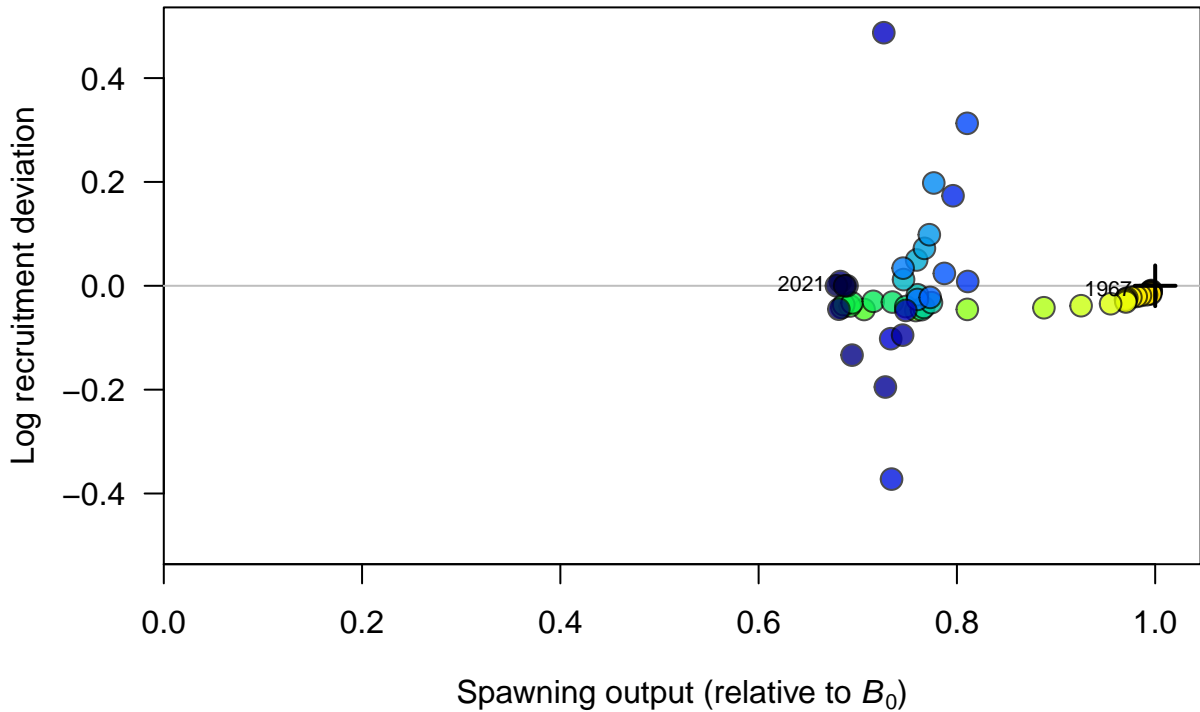


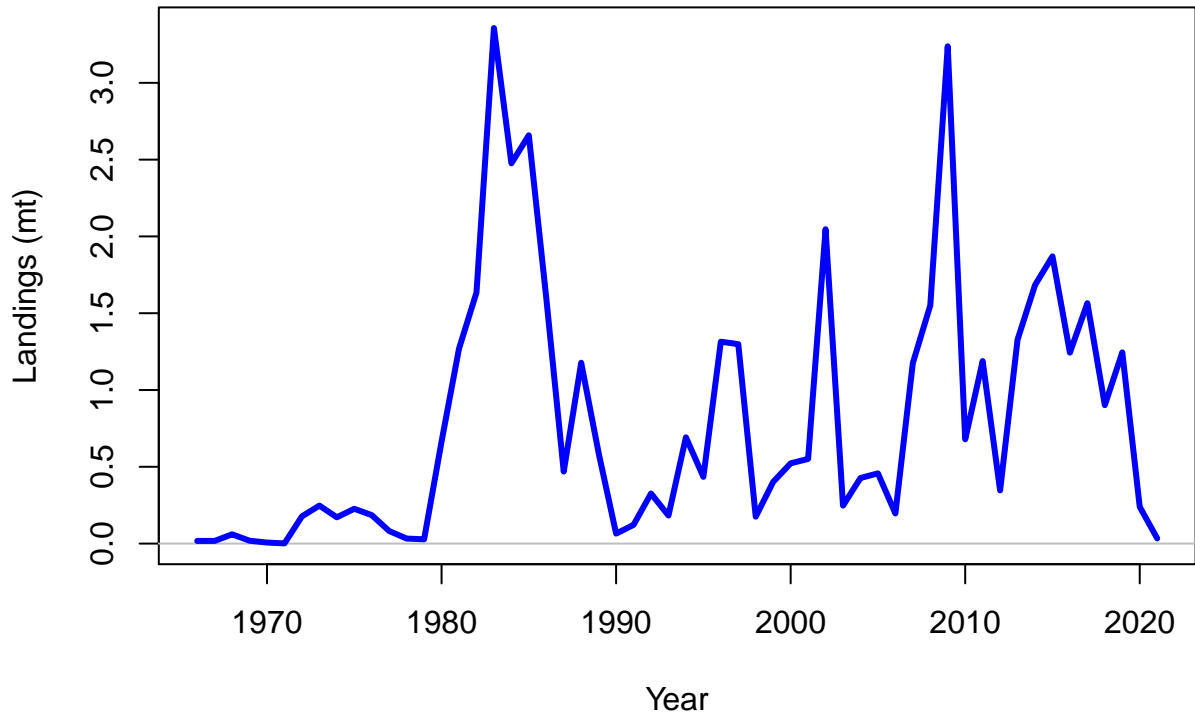




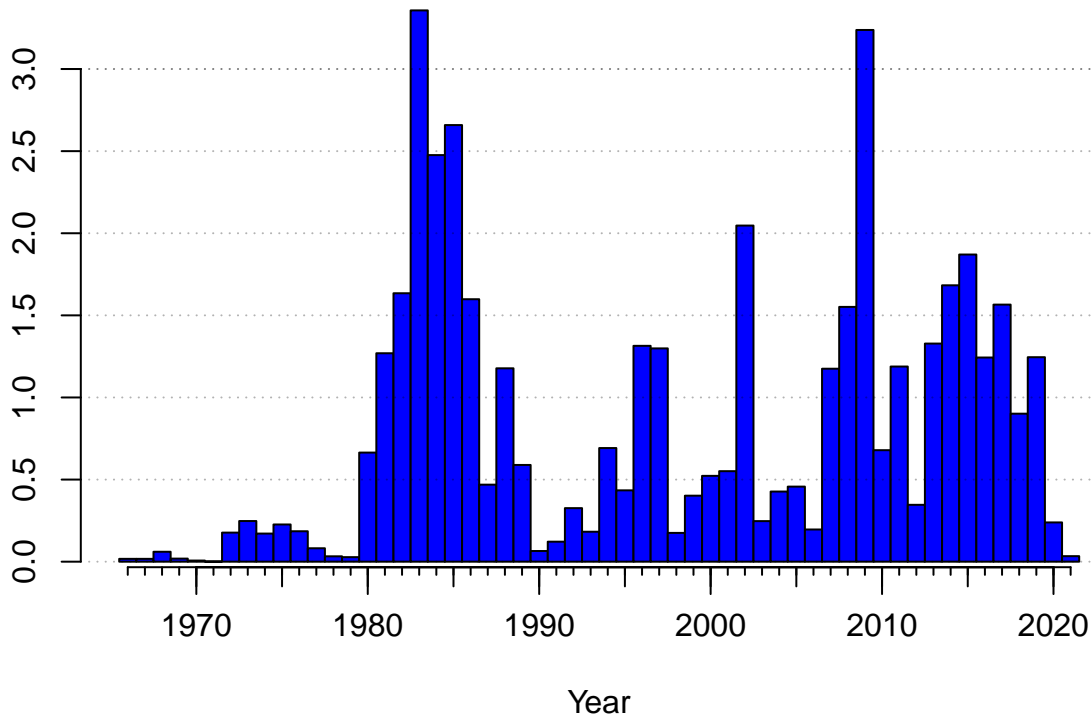


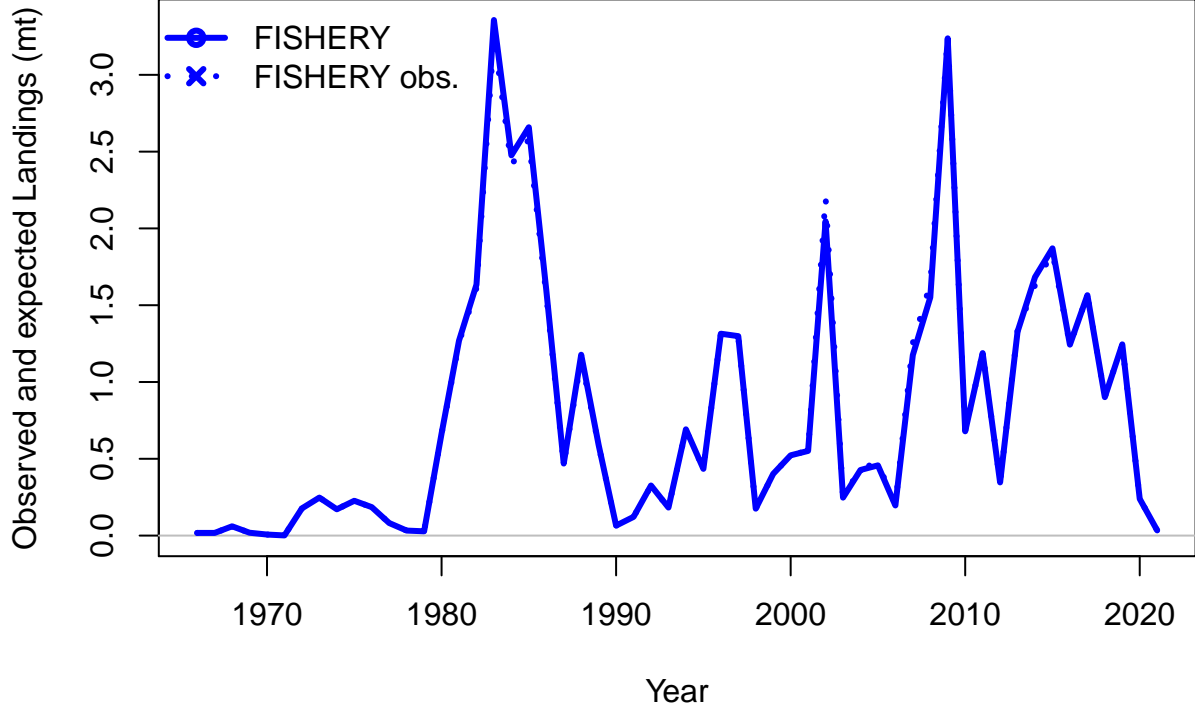


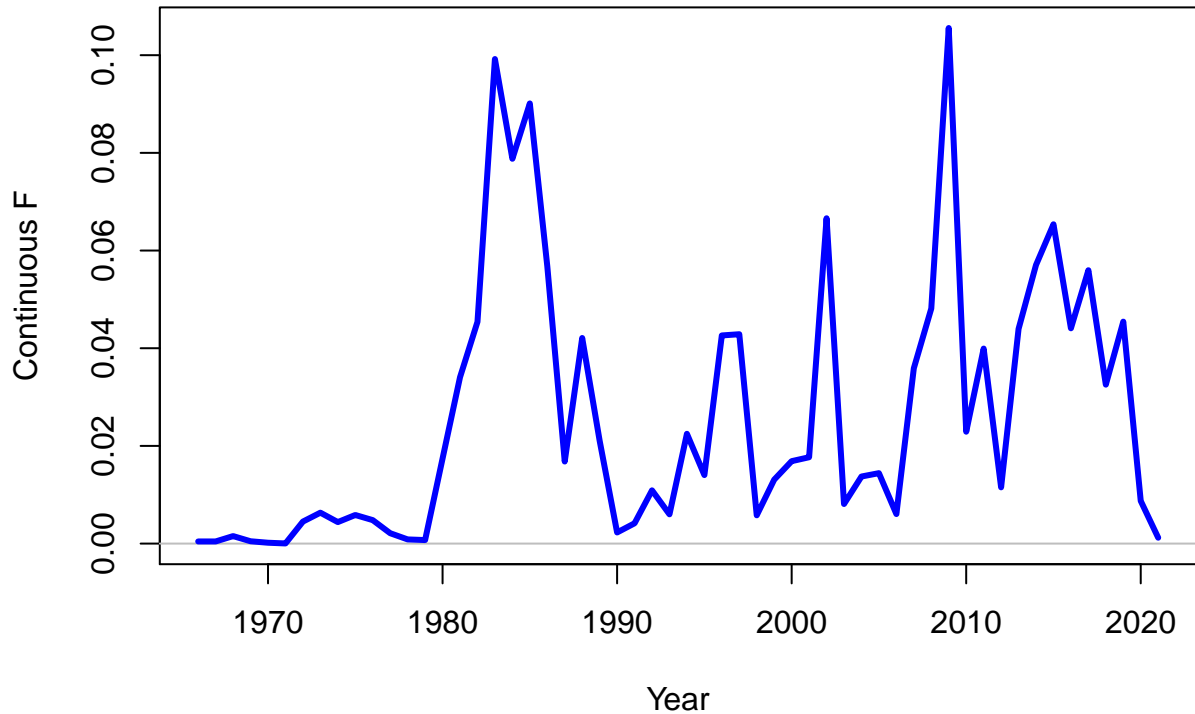




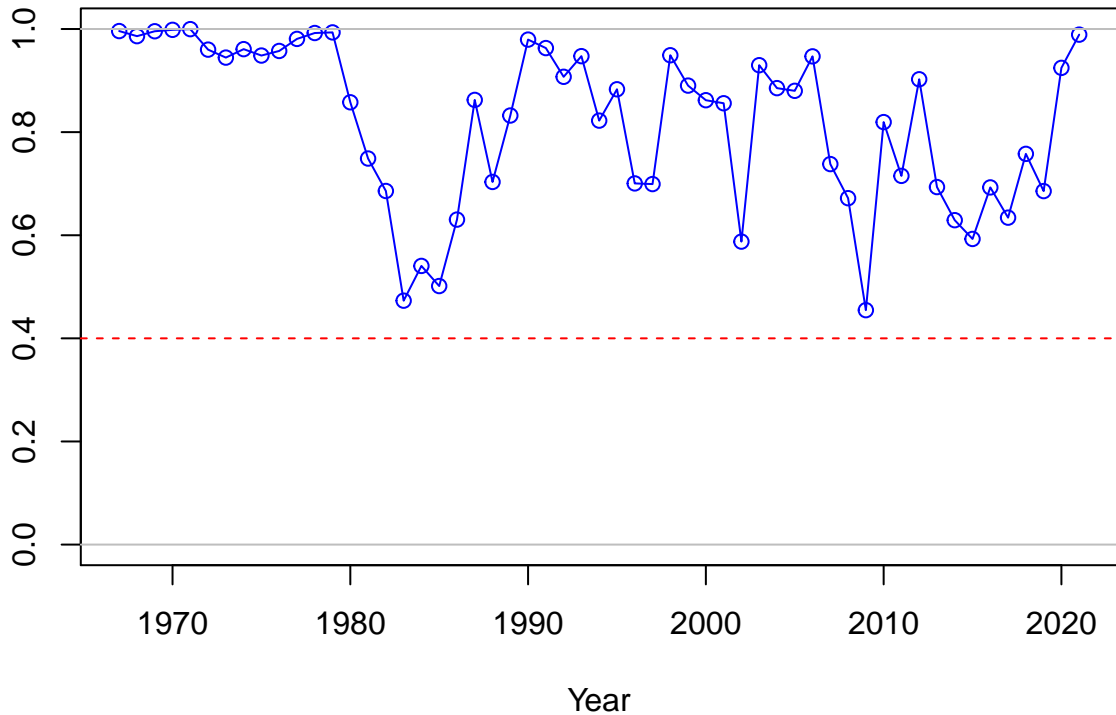
Landings (mt)

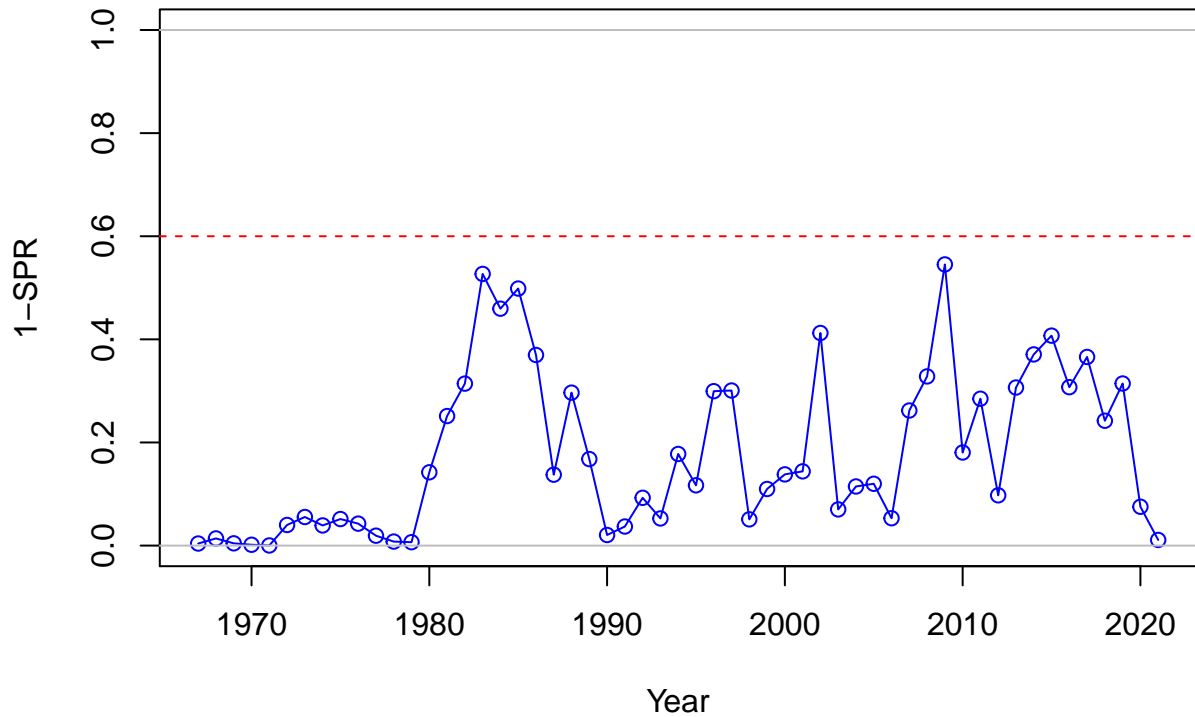






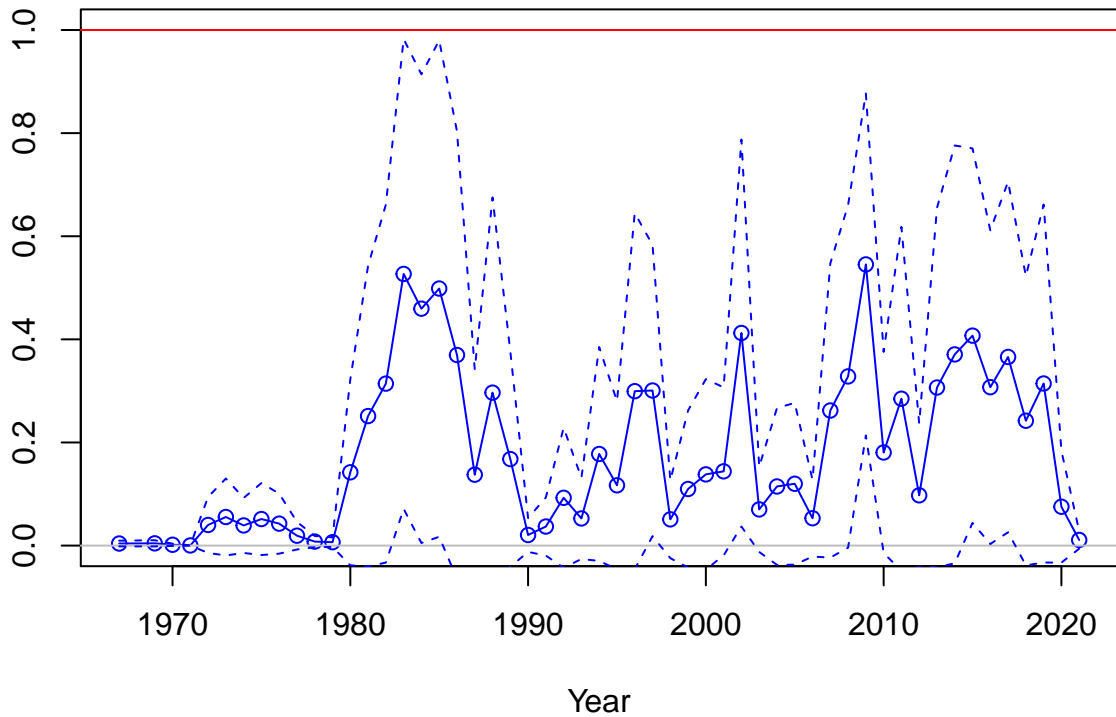
SPR



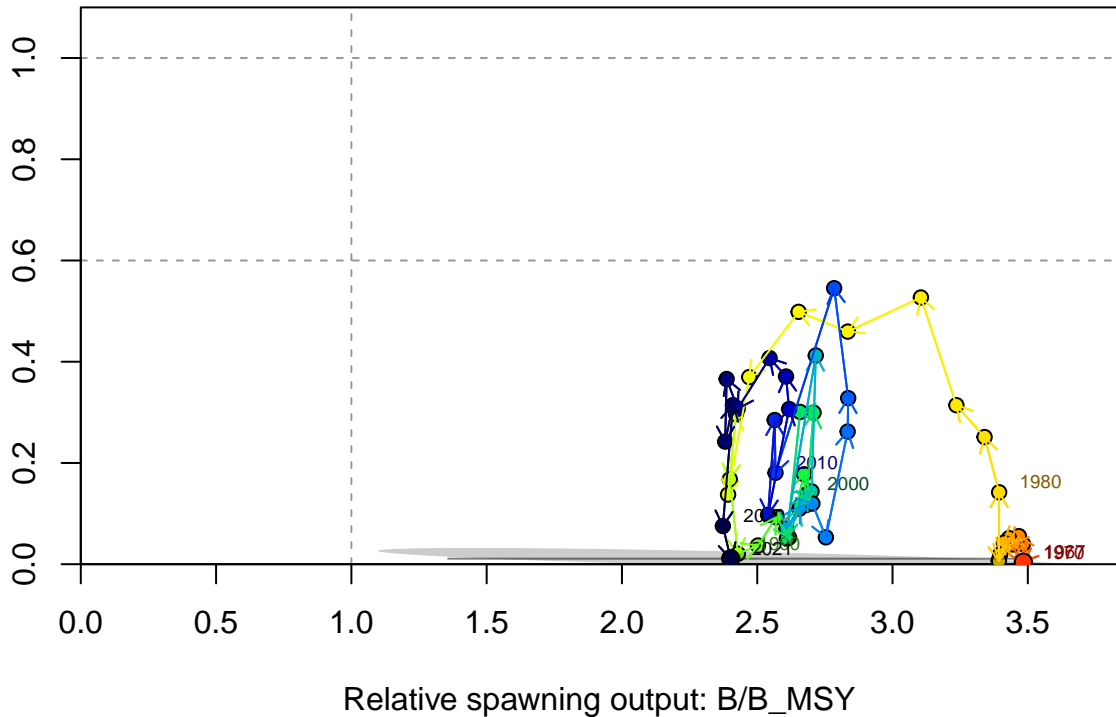




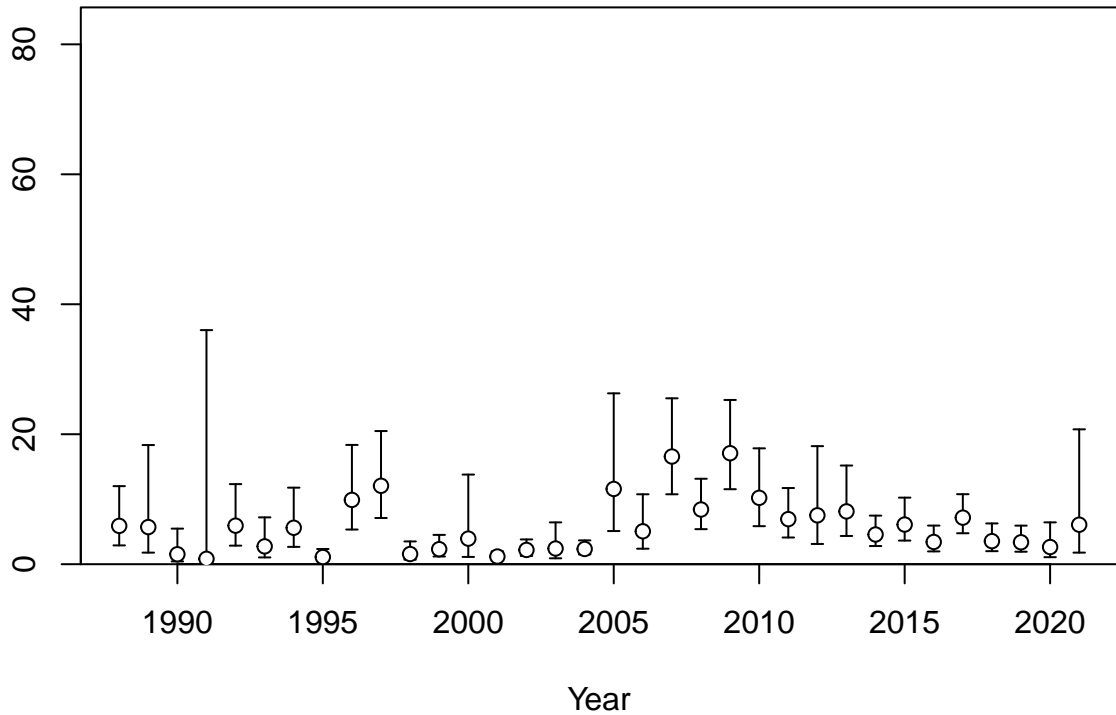
Fishing intensity: 1-SPR



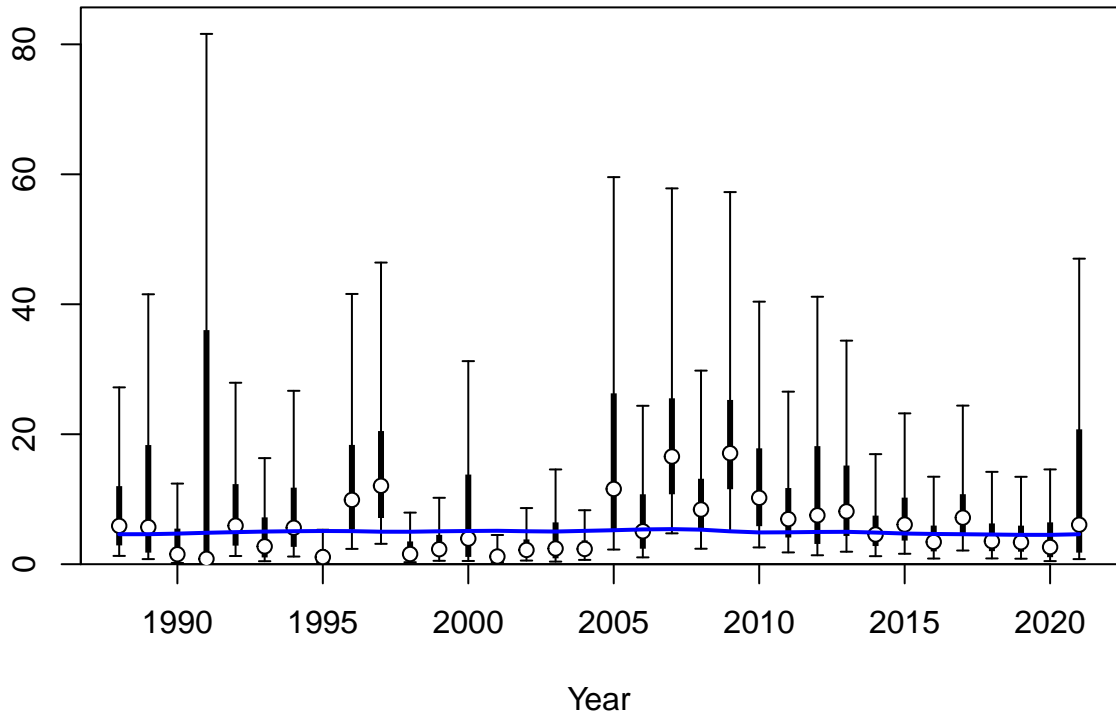
Fishing intensity: 1-SPR

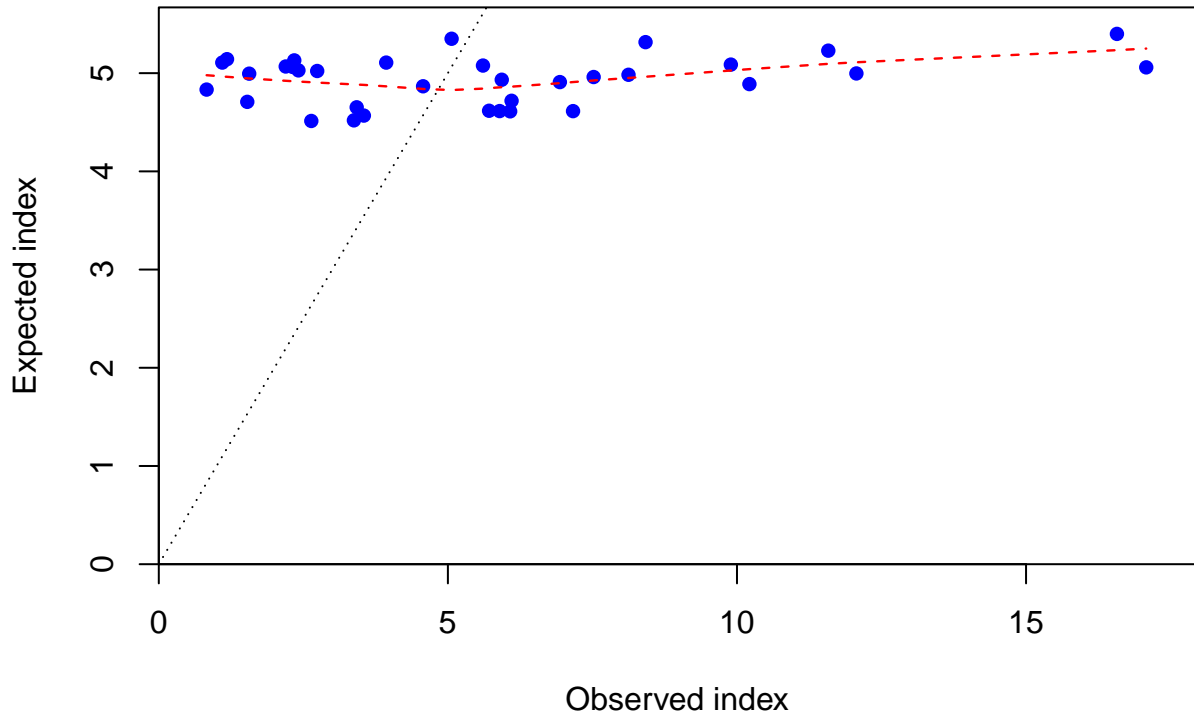


Index



Index





Log index

4  
2  
0  
-2  
-4

1990

1995

2000

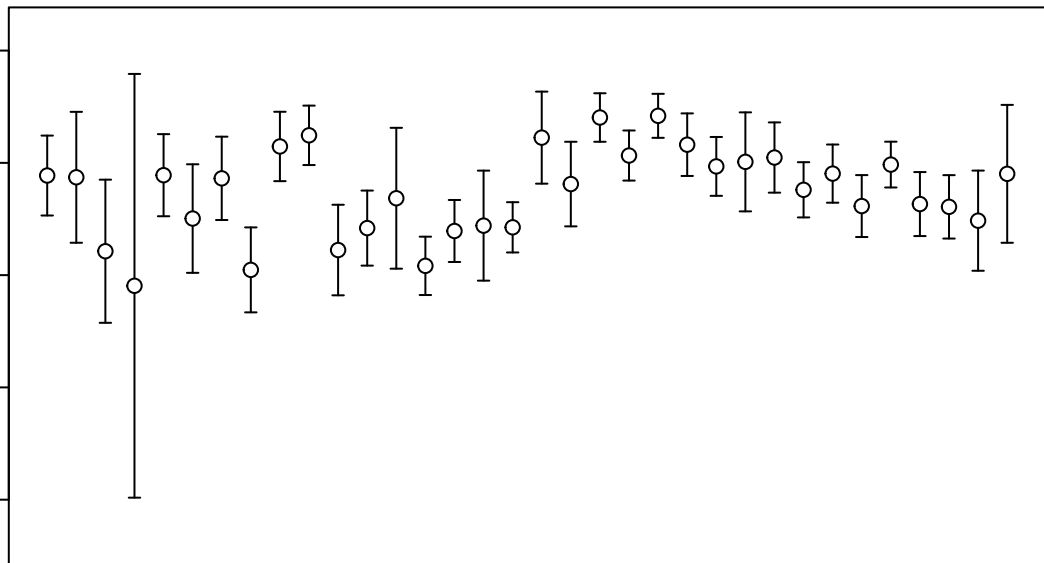
2005

2010

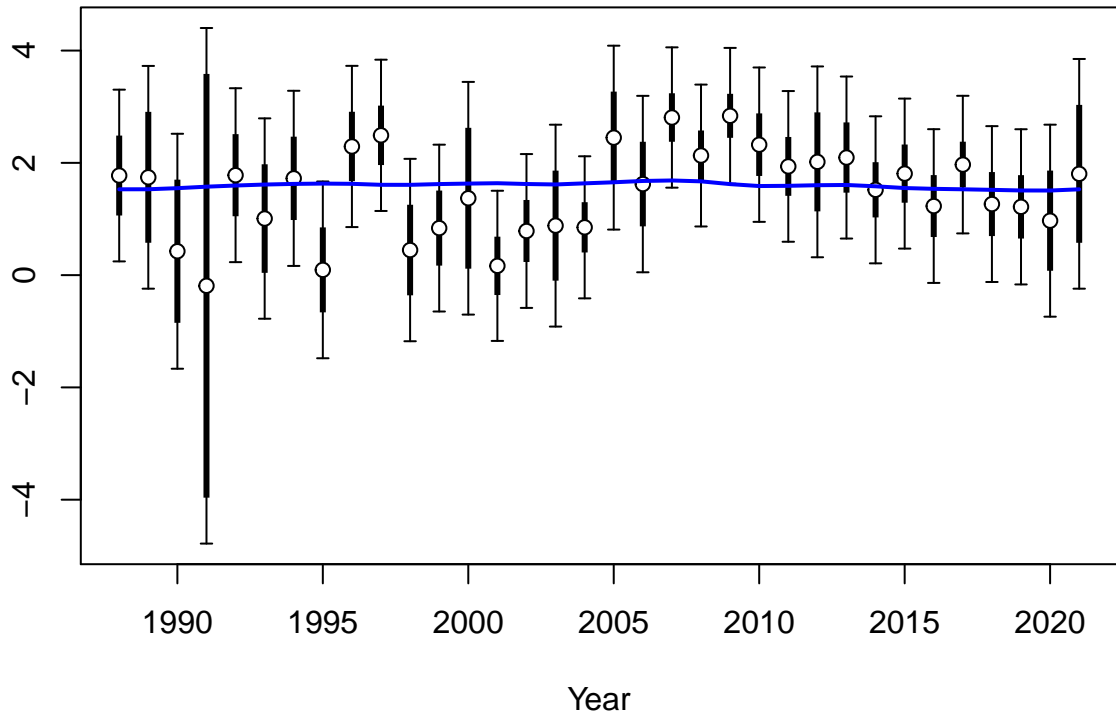
2015

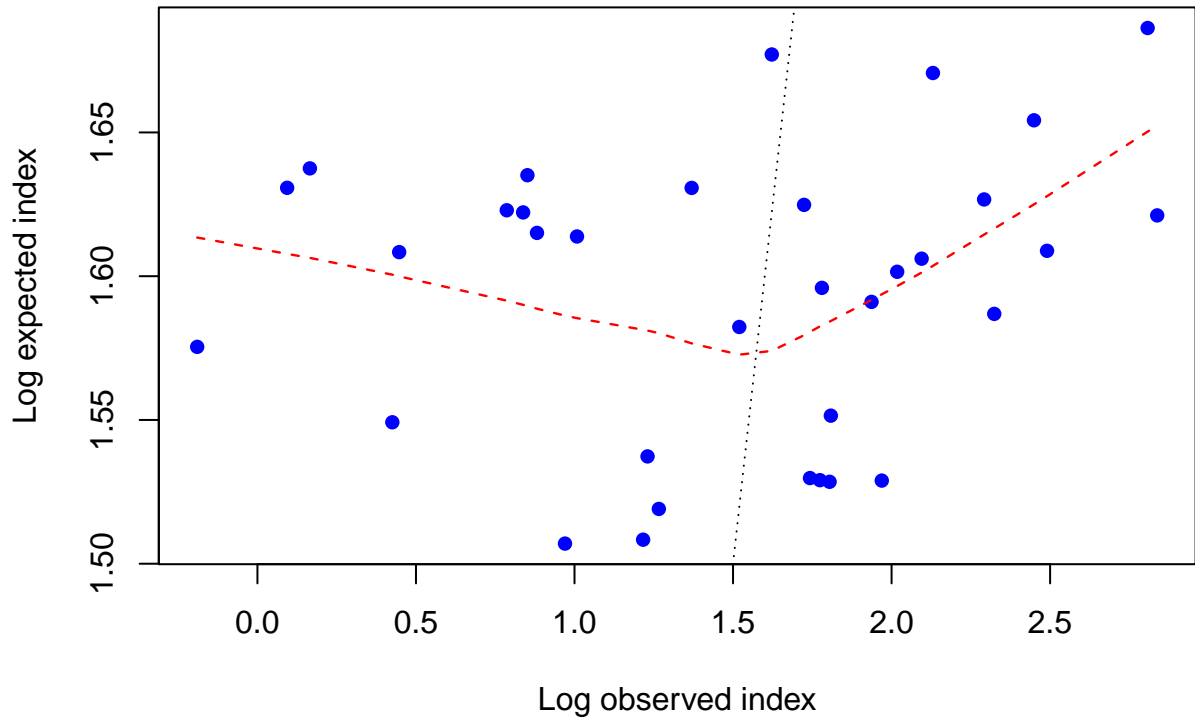
2020

Year

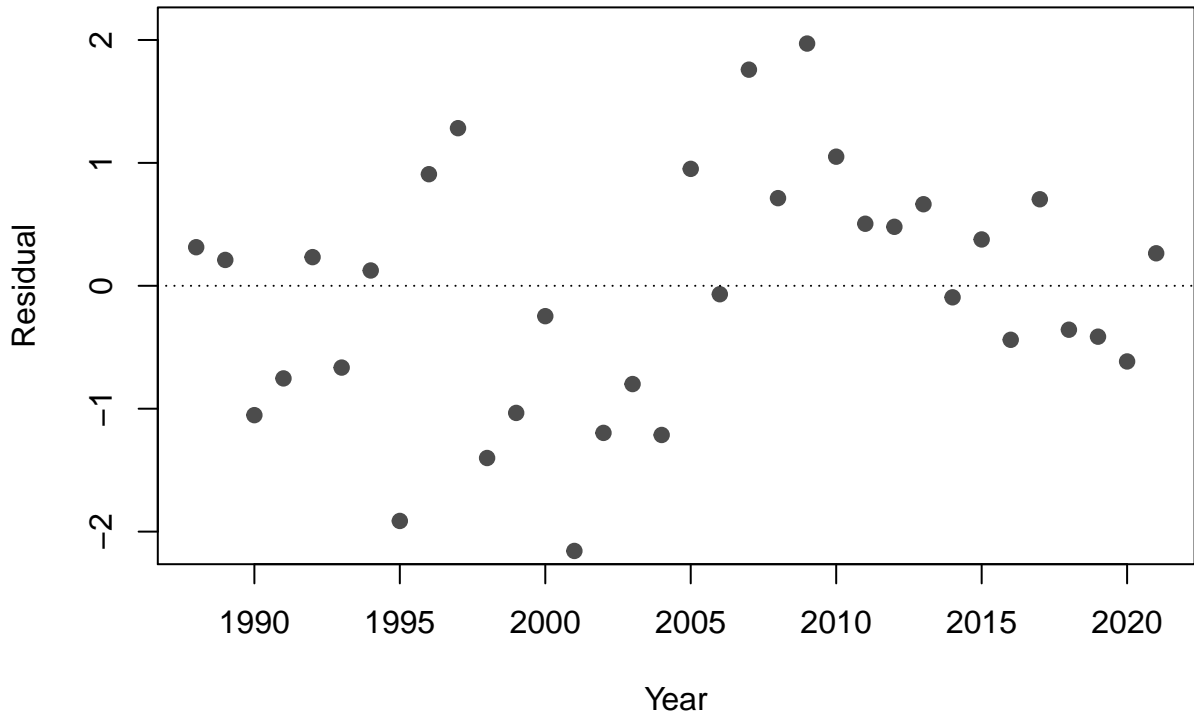


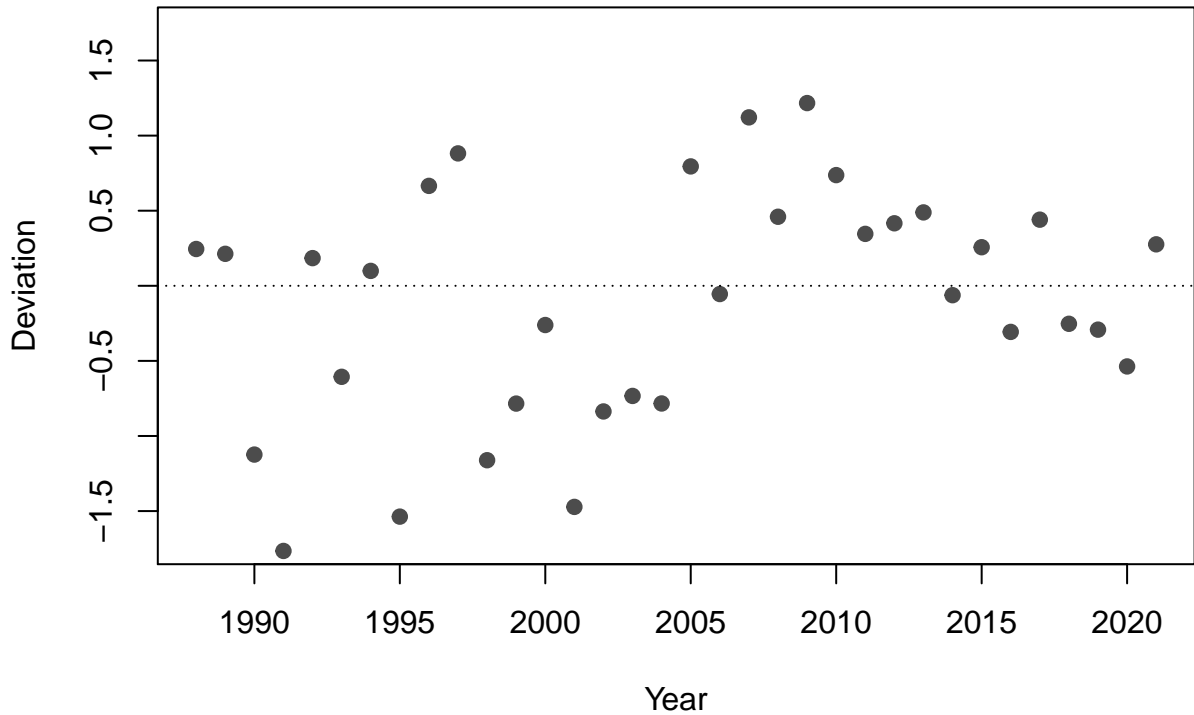
Log index

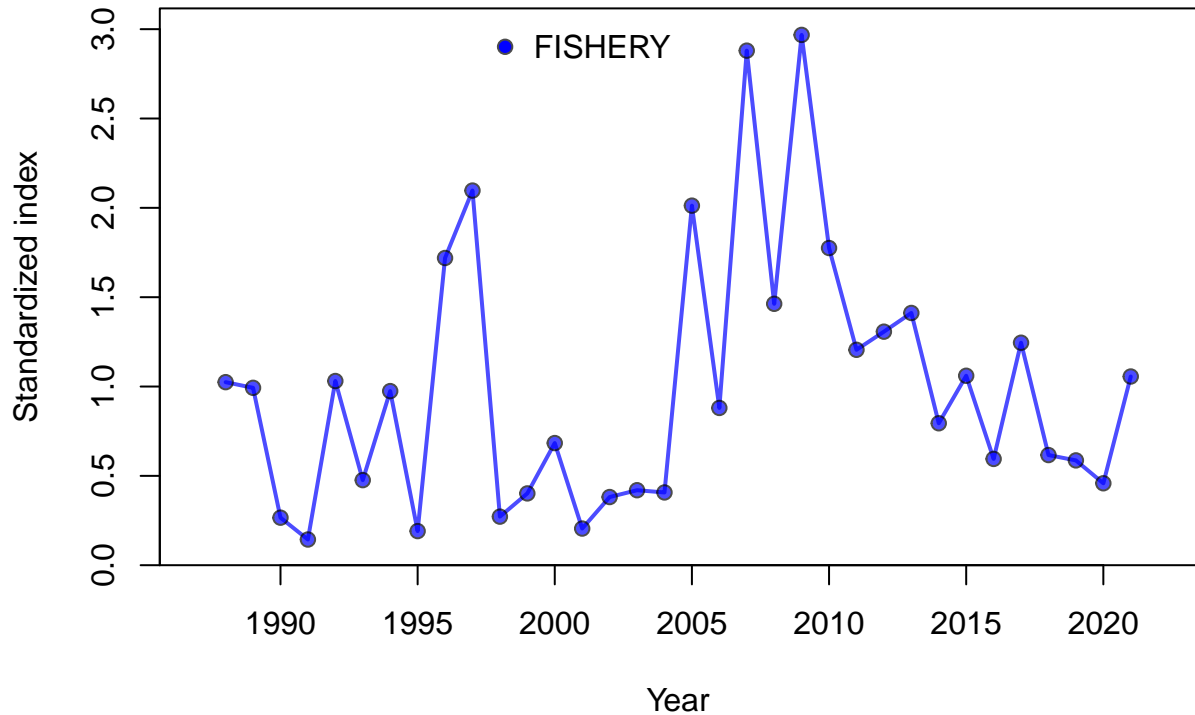


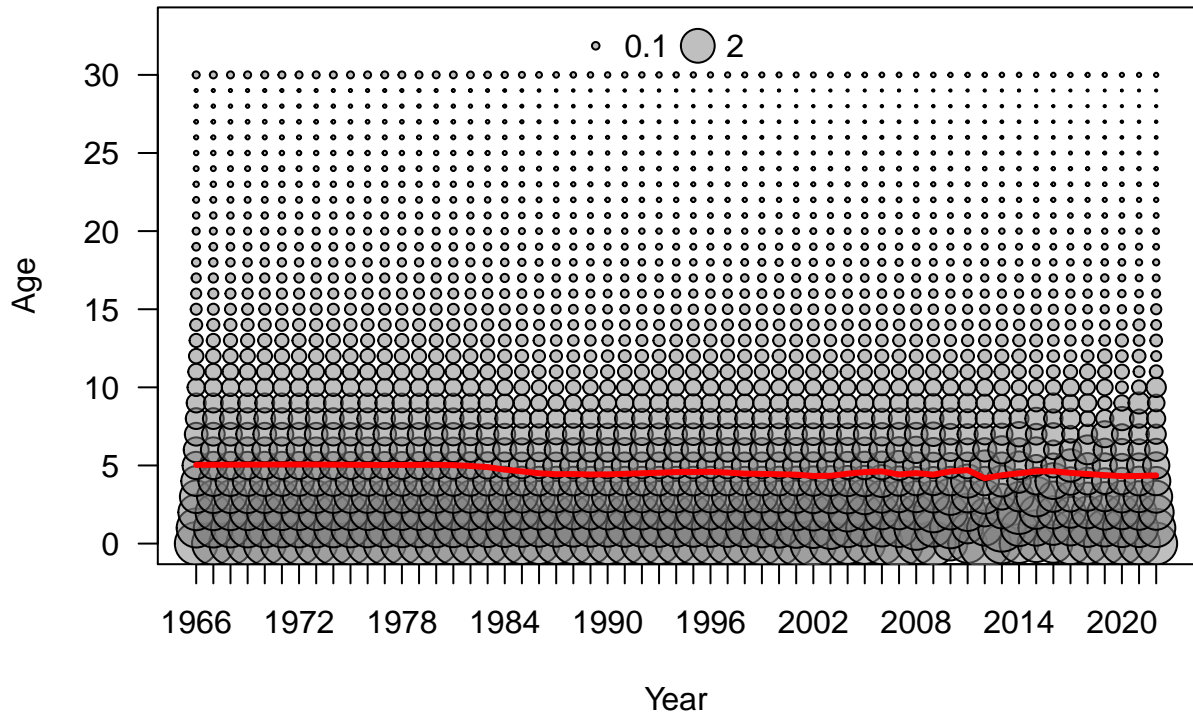


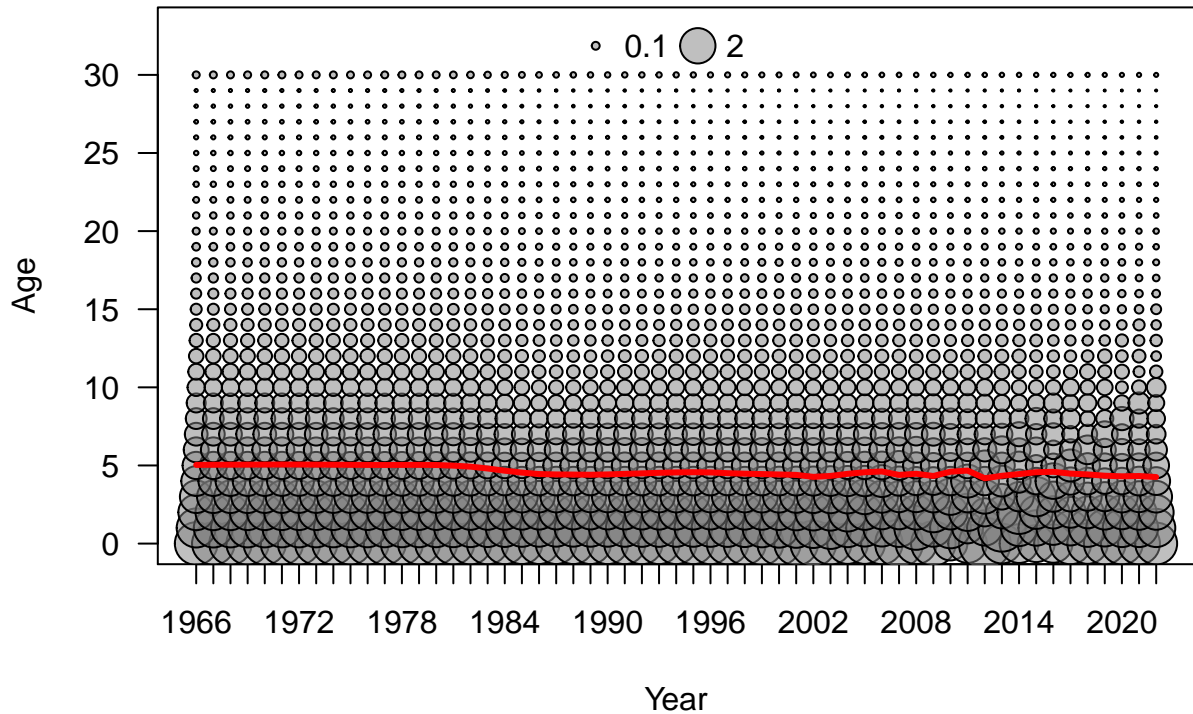


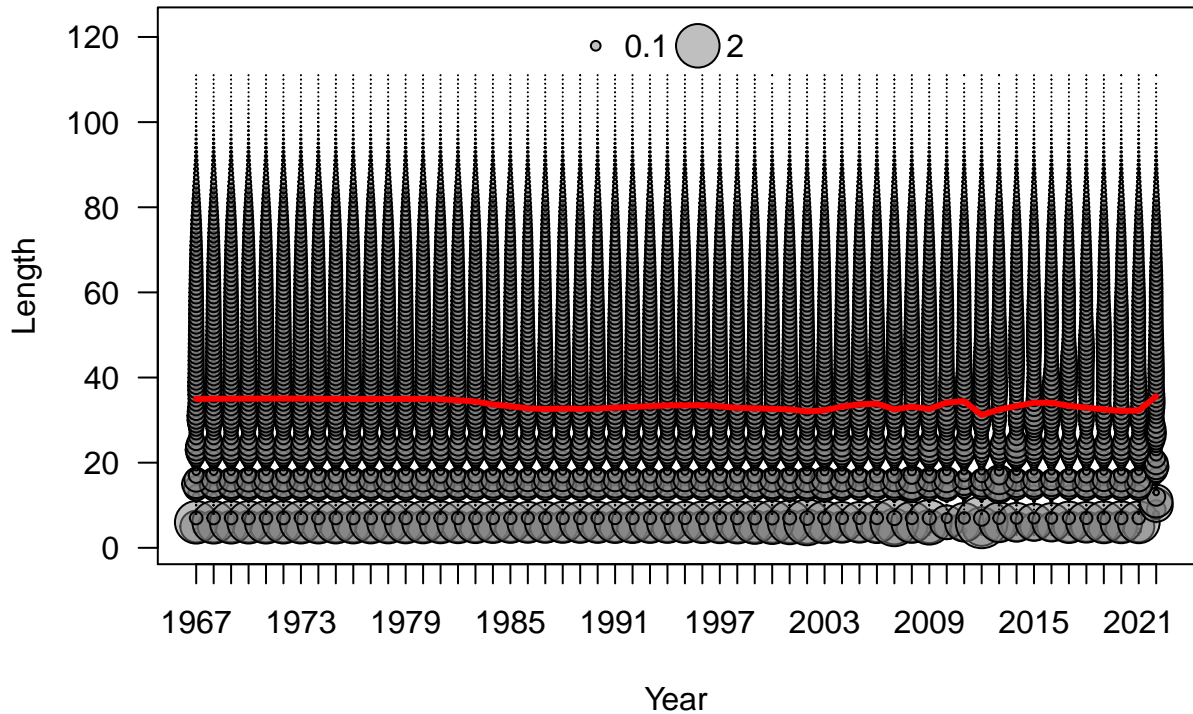


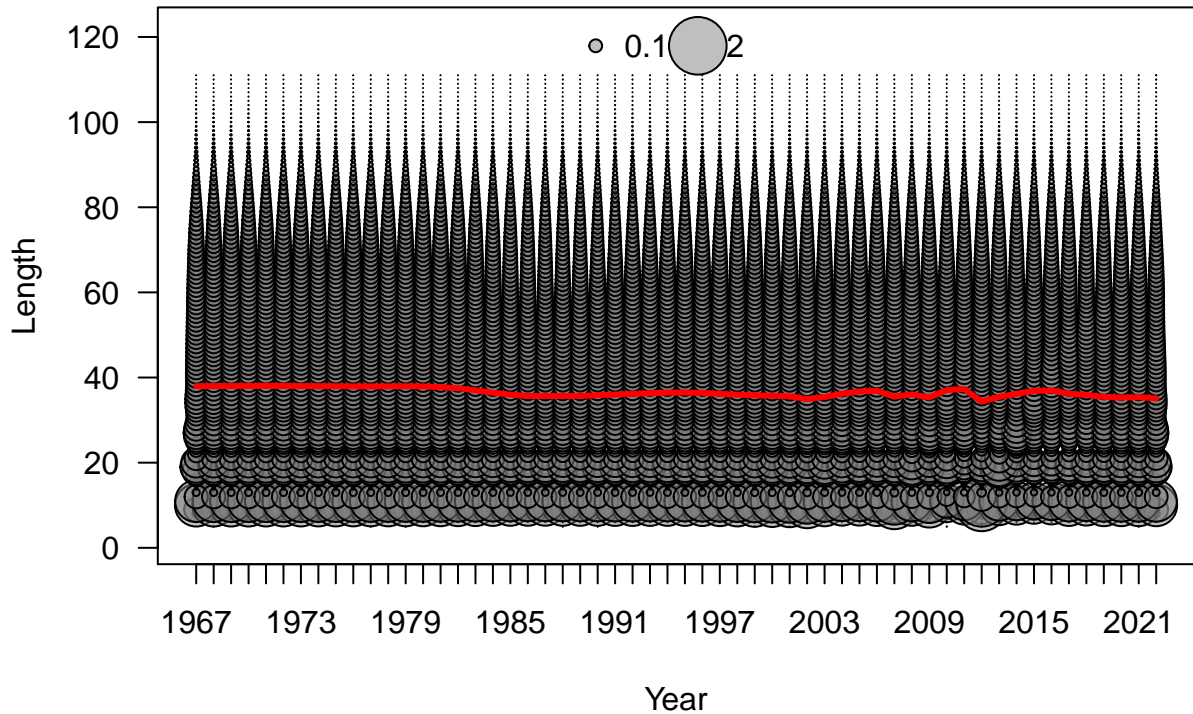


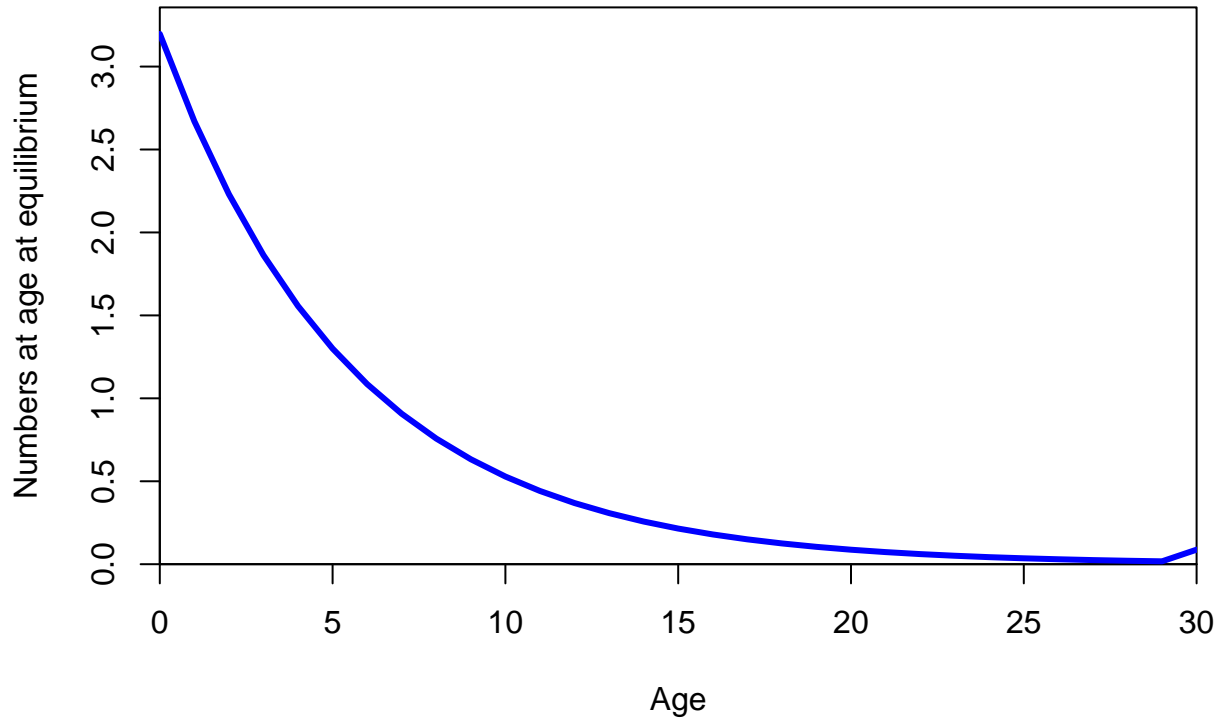








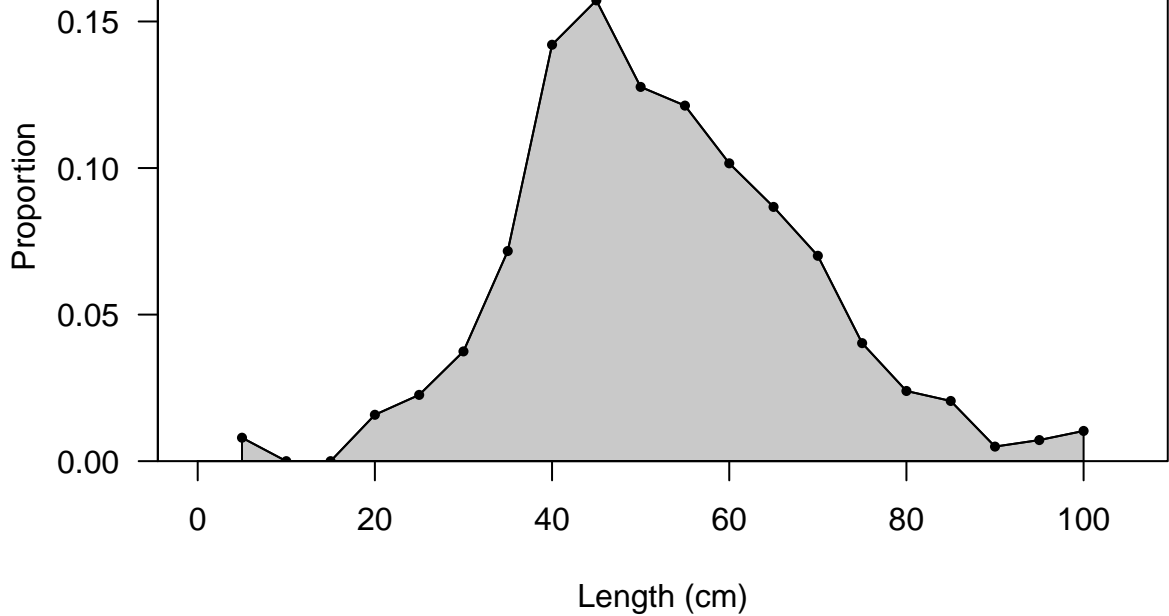


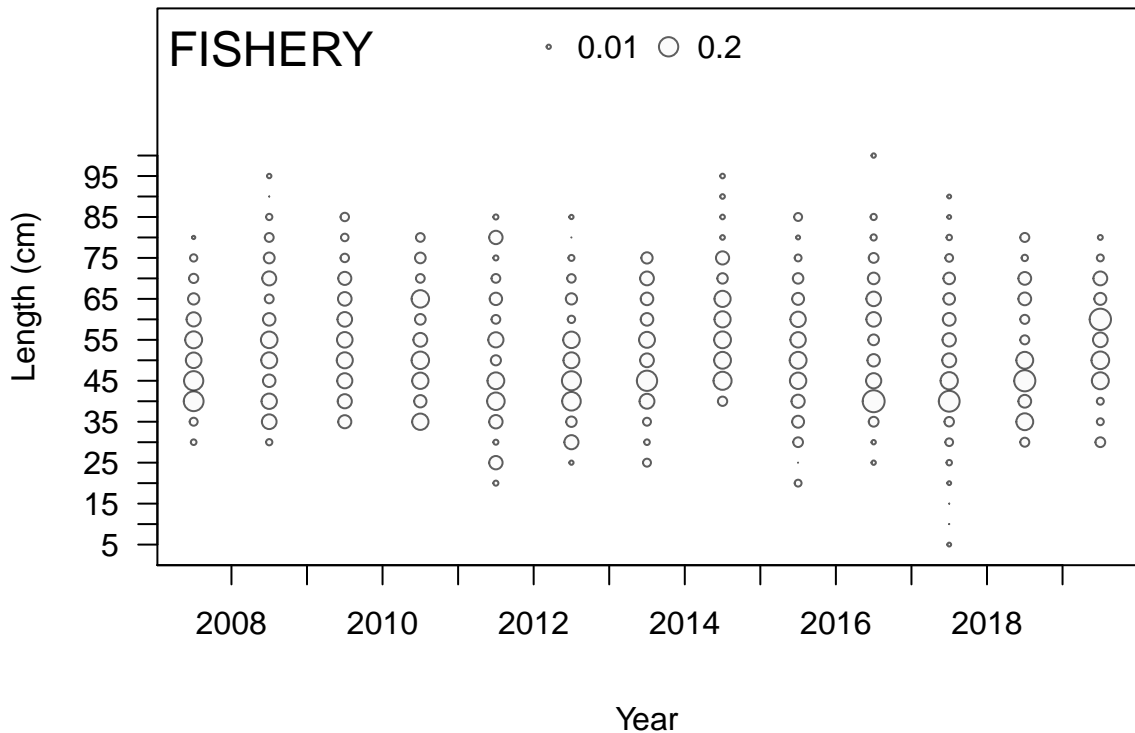




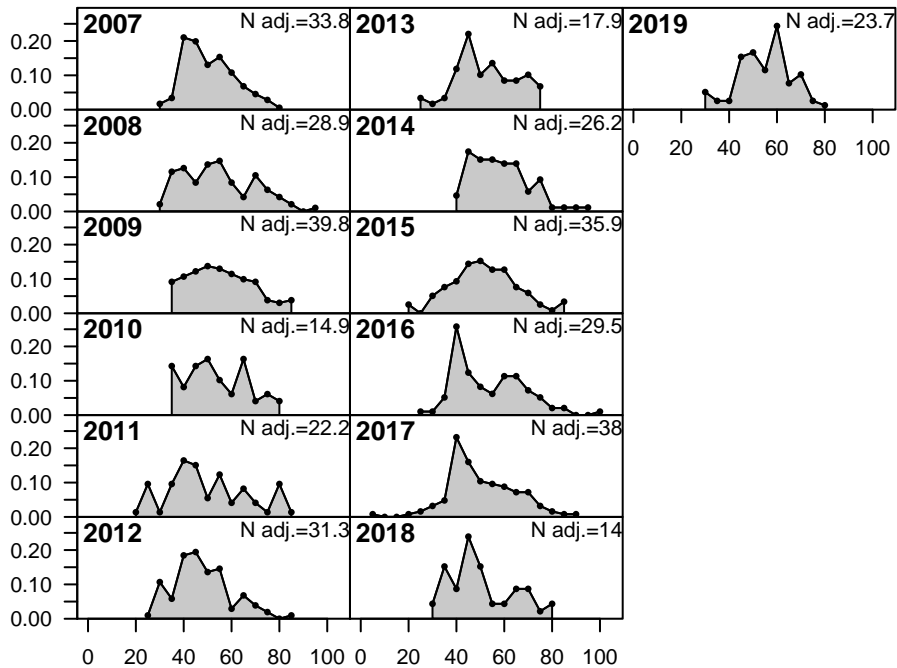
# FISHERY

Sum of N adj.=356.1

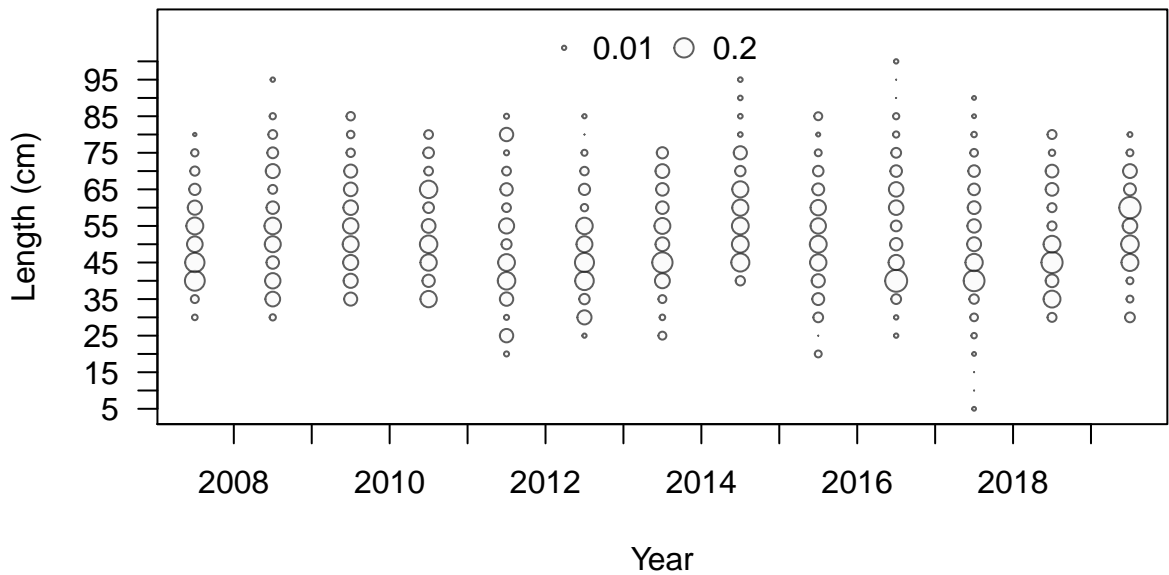




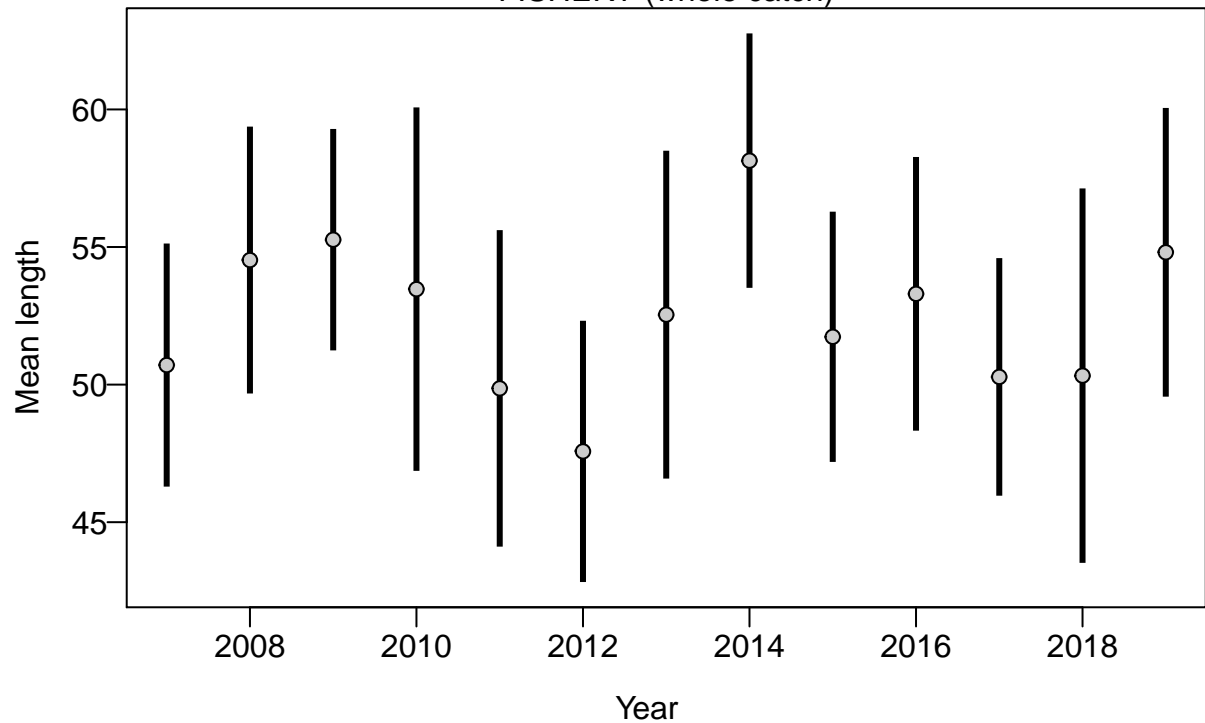
Proportion



Length (cm)

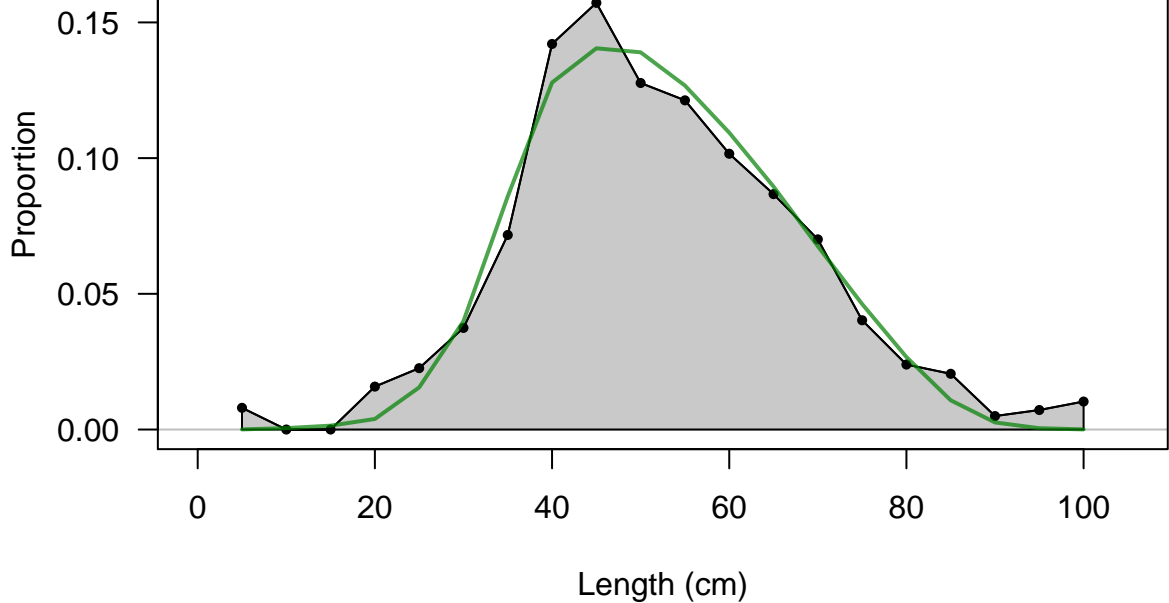


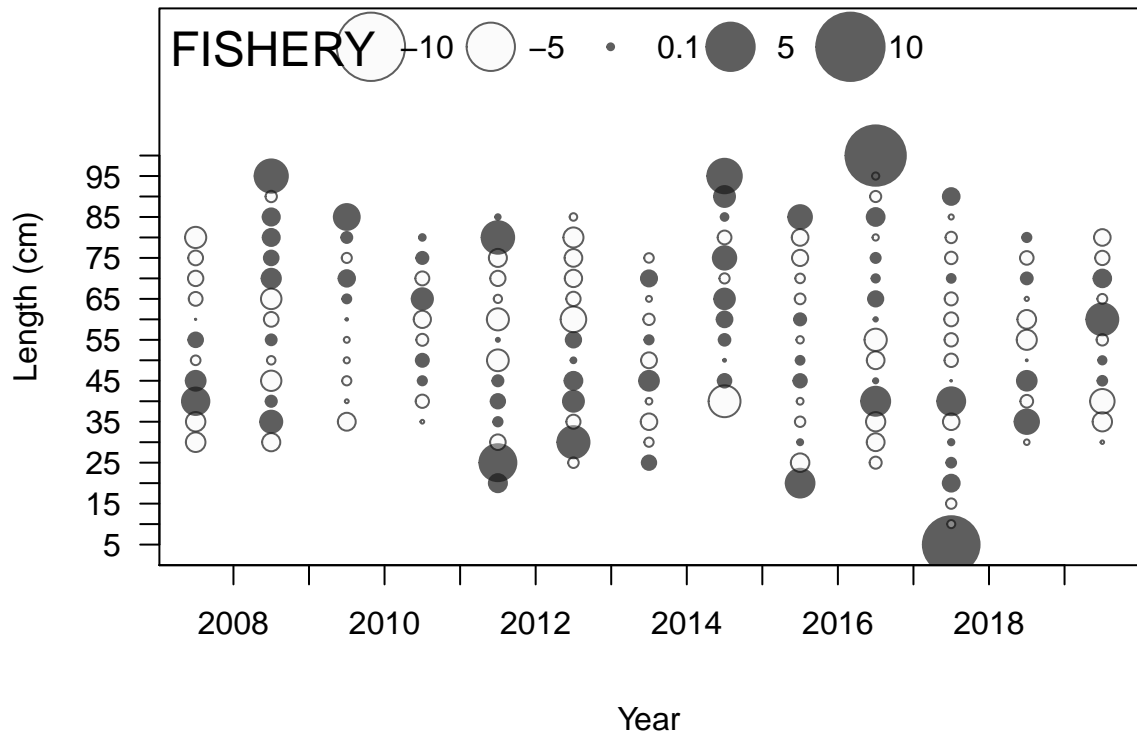
FISHERY (whole catch)

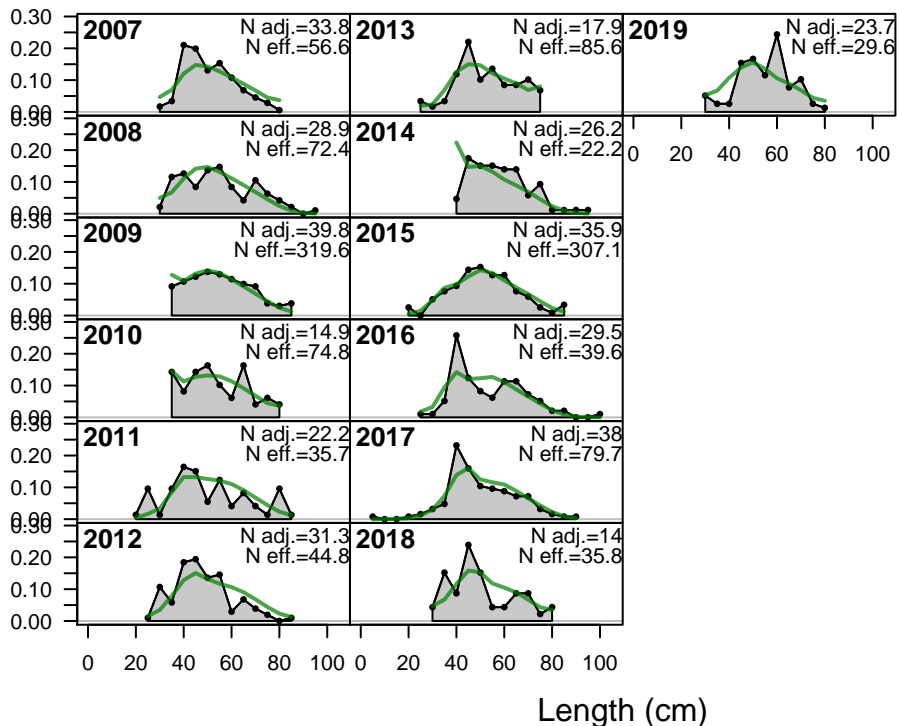


# FISHERY

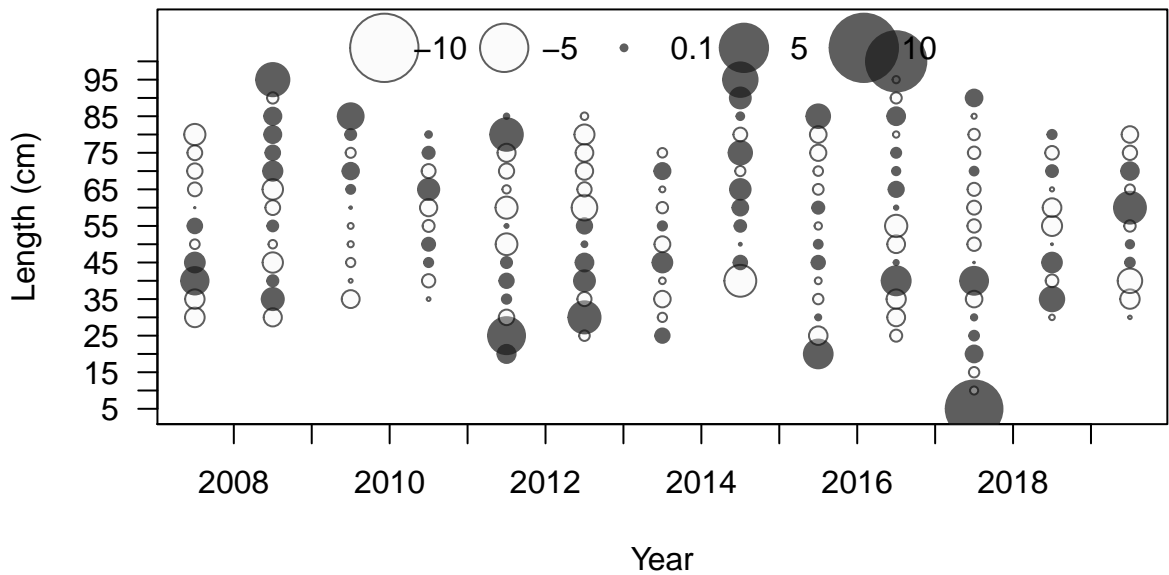
Sum of N adj.=356.1  
Sum of N eff.=1203.5

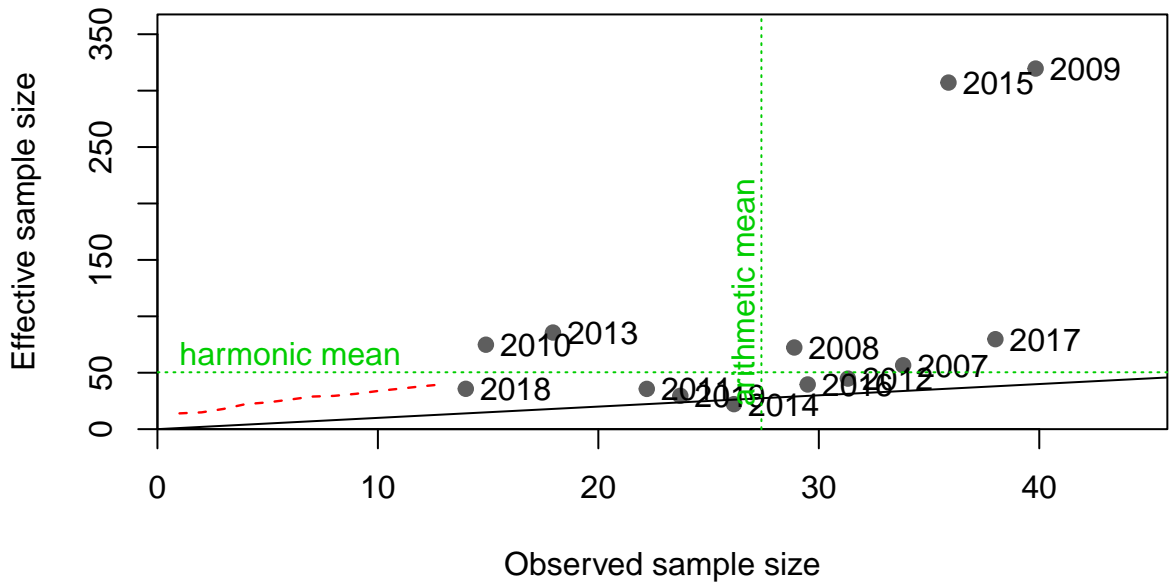




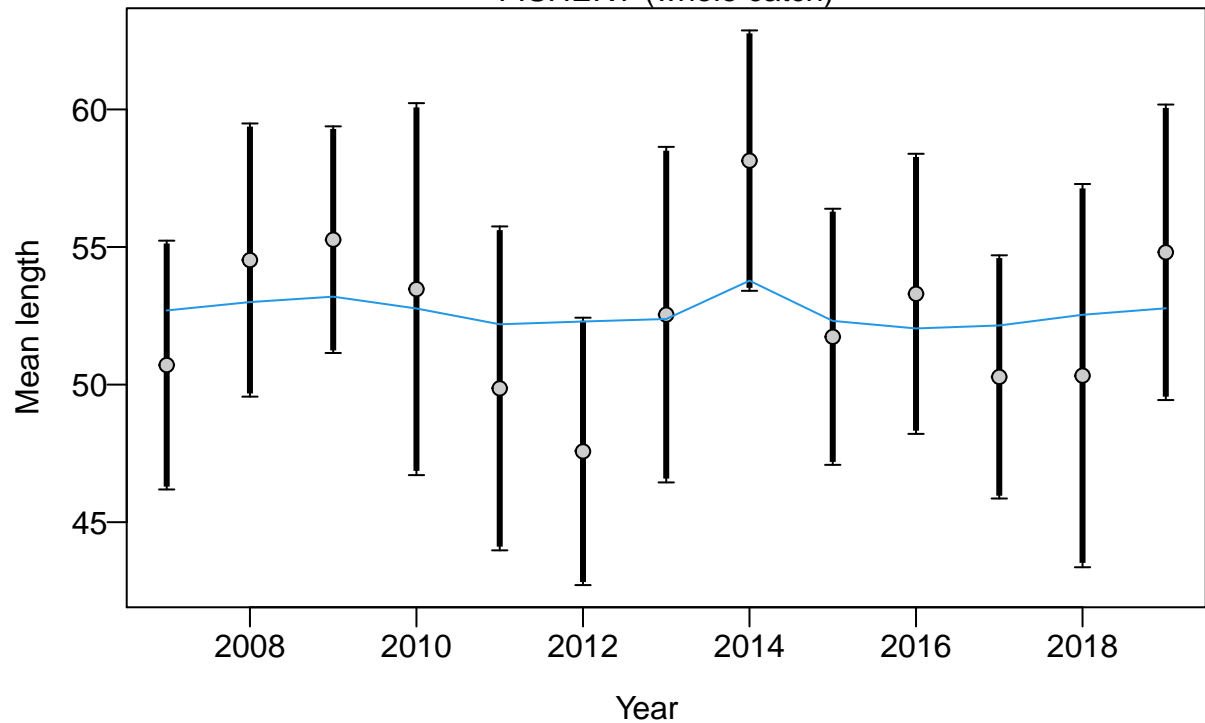


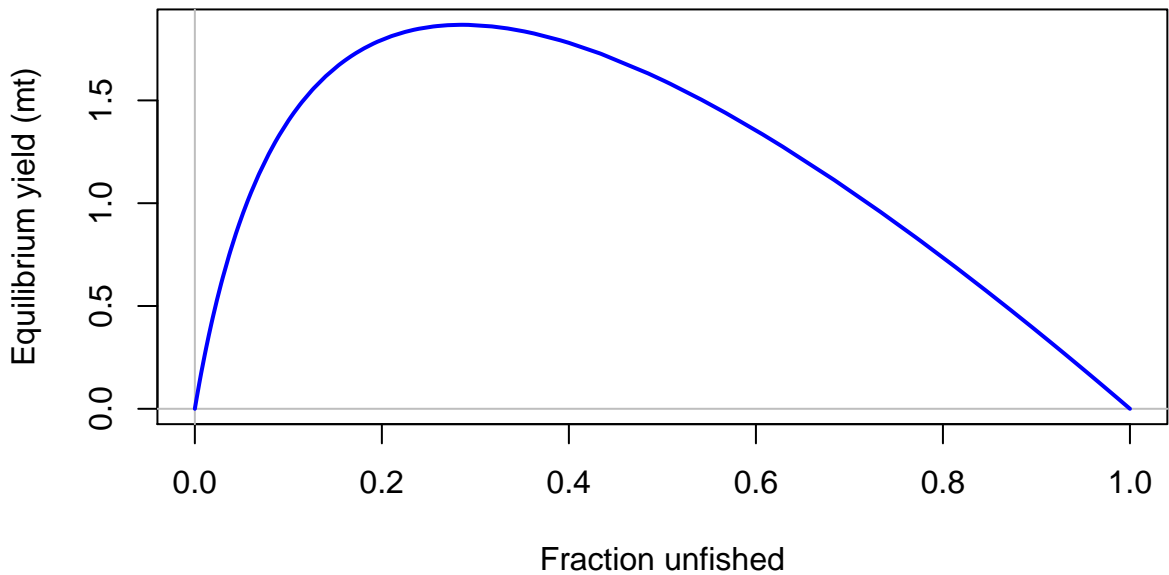


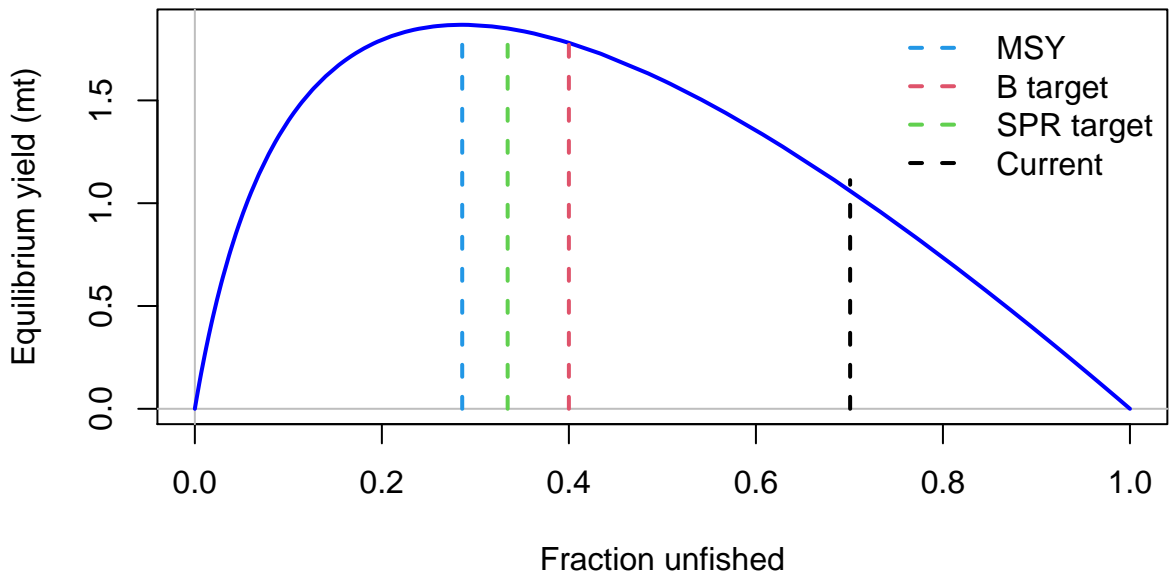


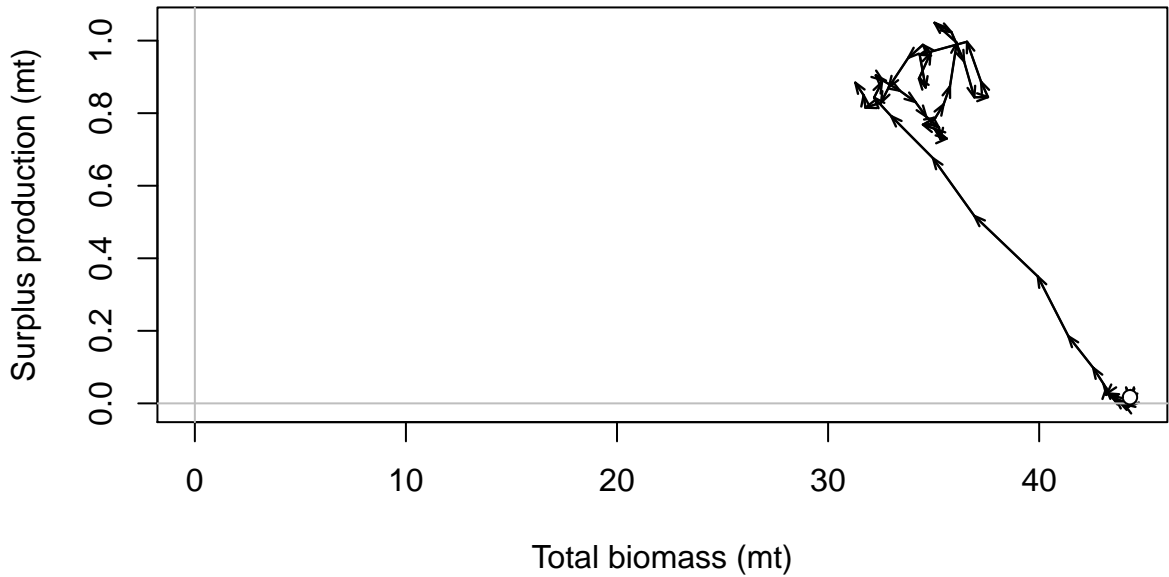


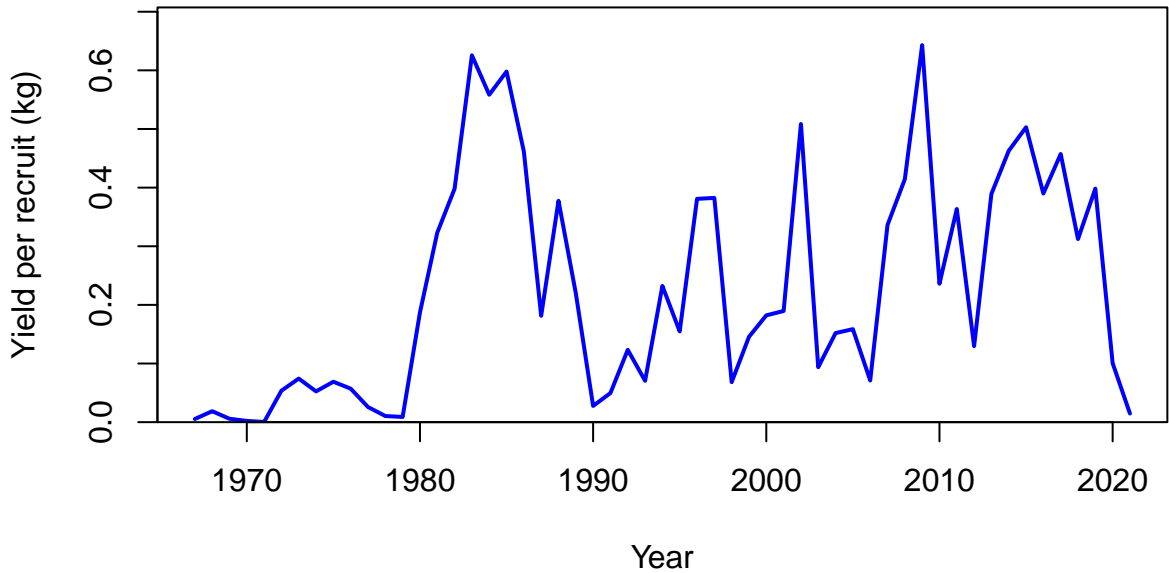
FISHERY (whole catch)

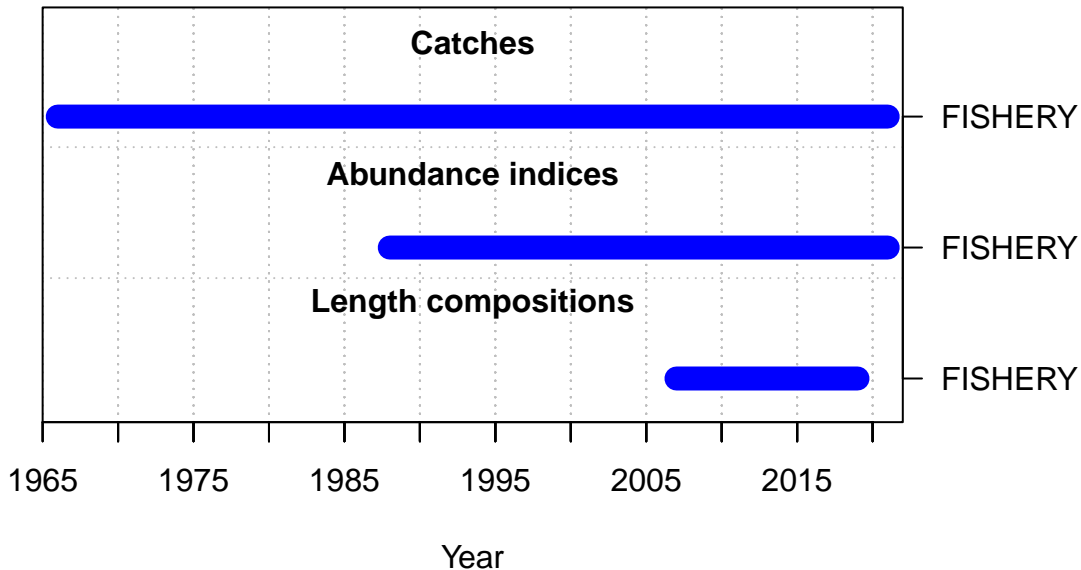




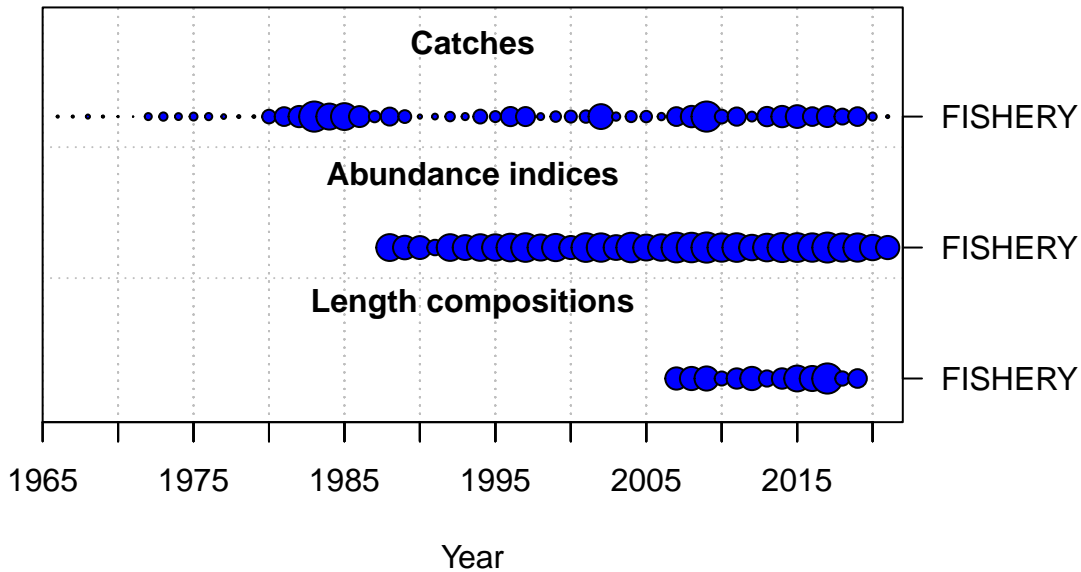




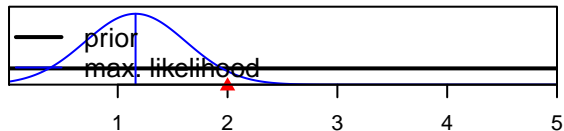




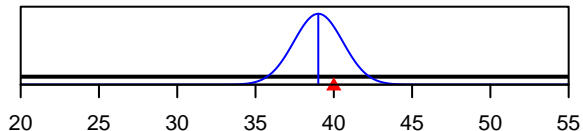




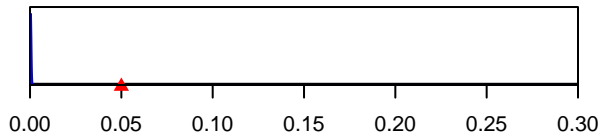
SR\_LN(R0)



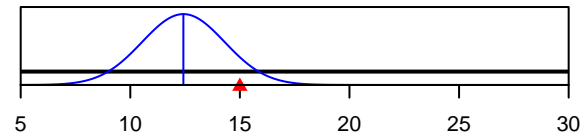
Size\_inflection\_FISHERY(1)



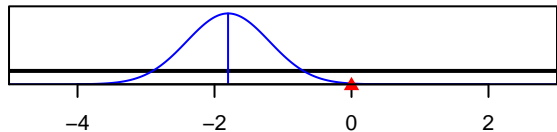
InitF\_seas\_1\_flt\_1FISHERY



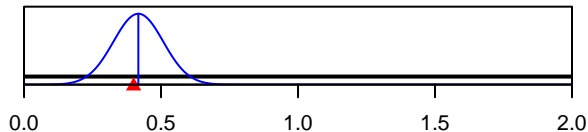
Size\_95%width\_FISHERY(1)



LnQ\_base\_FISHERY(1)



Q\_extraSD\_FISHERY(1)



Parameter value