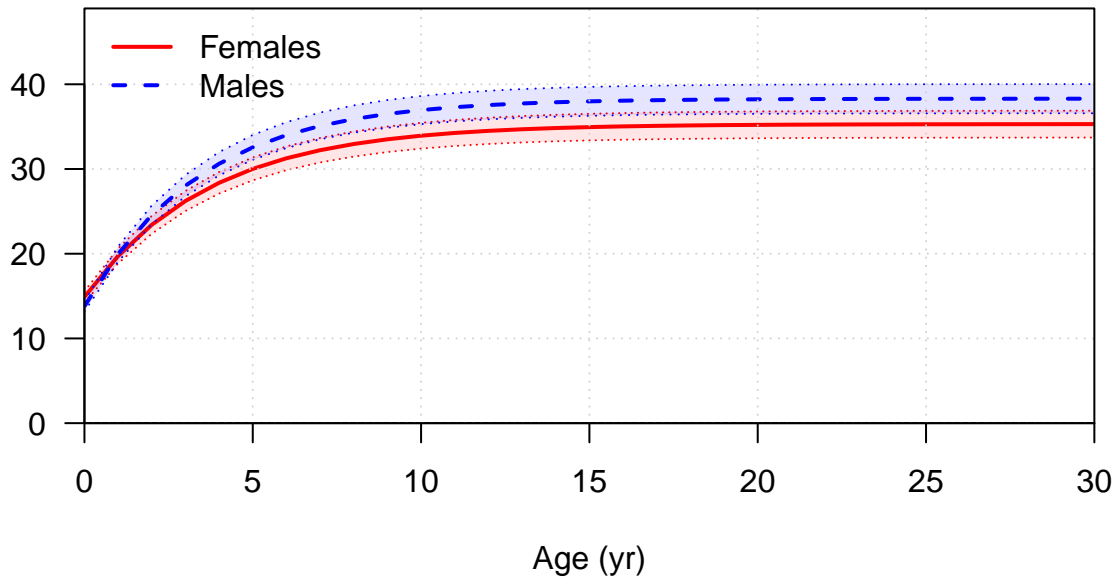
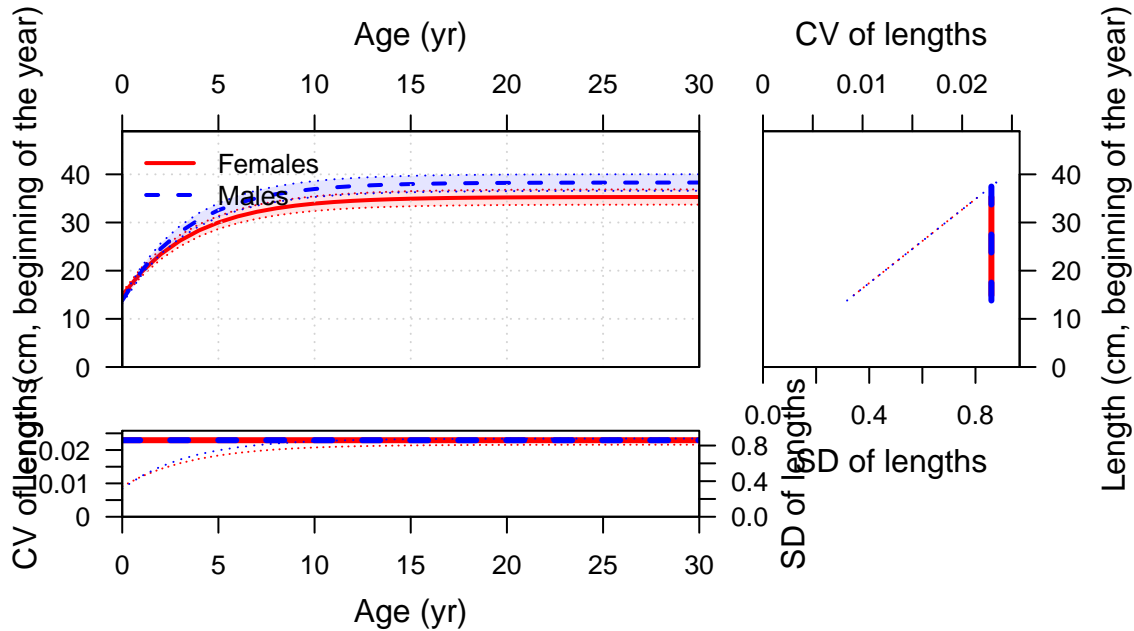
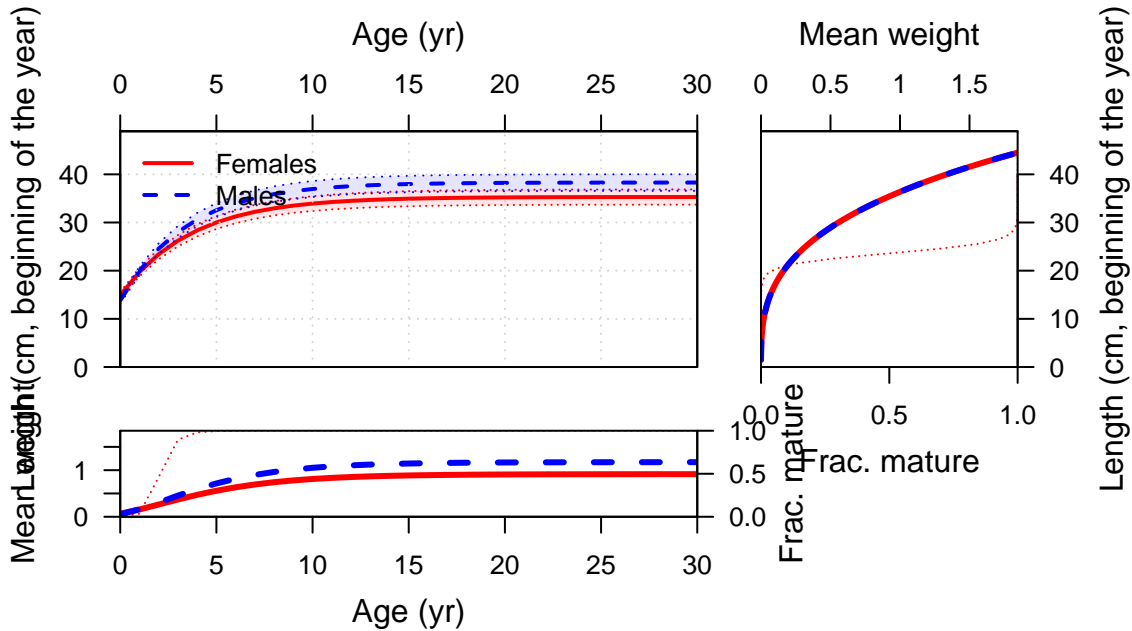


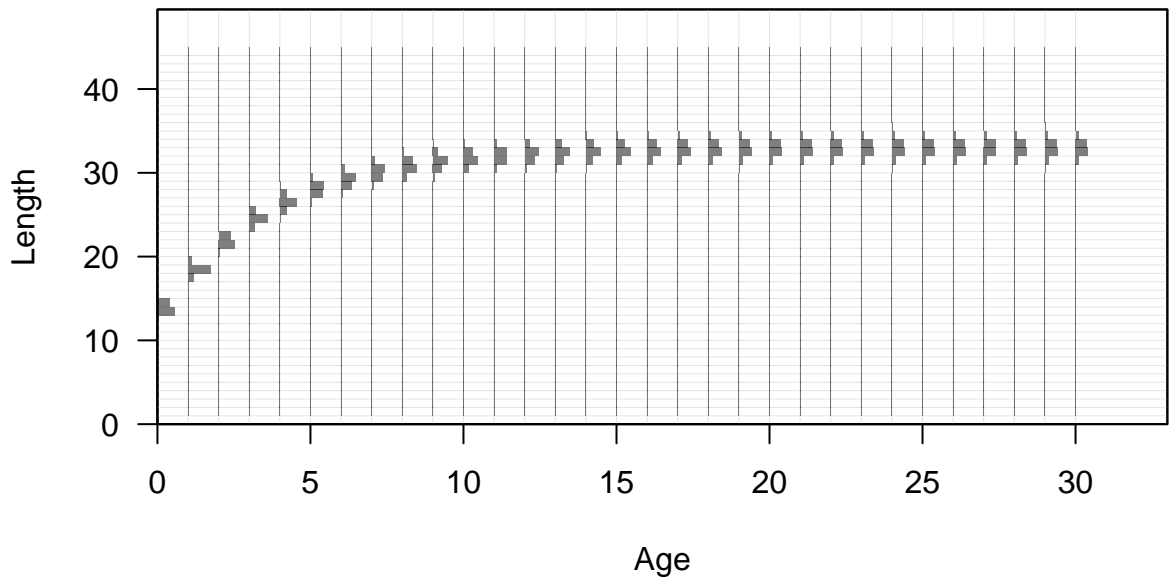
Plots created using the 'r4ss' package in R  
Stock Synthesis version: 3.30.19.0  
StartTime: Mon Aug 08 15:24:20 2022  
Data\_File: data.ss  
Control\_File: control.ss

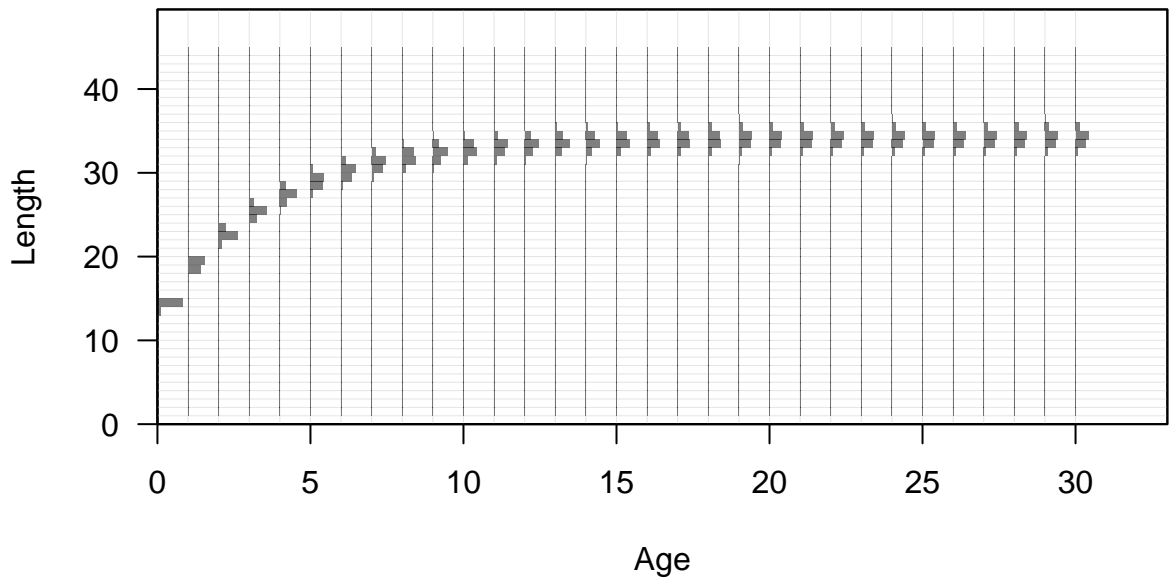
Length (cm, beginning of the year)

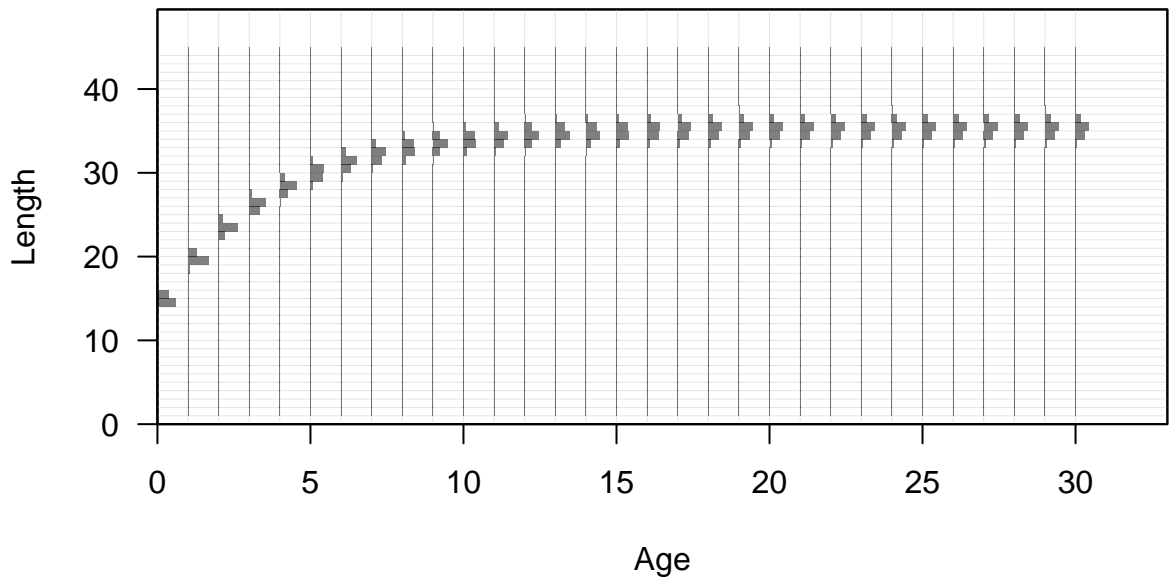


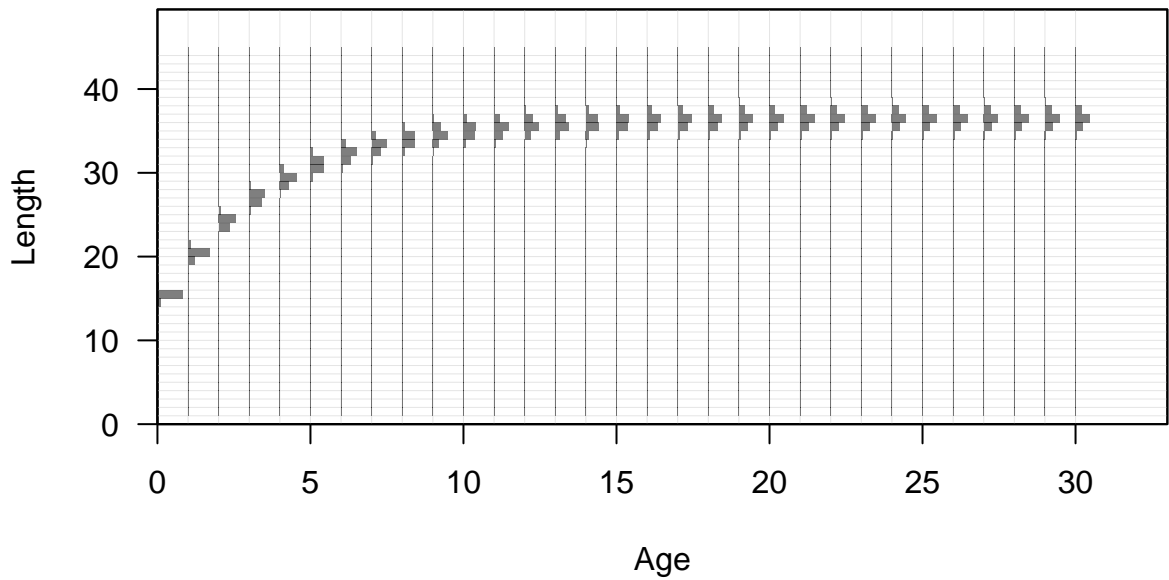




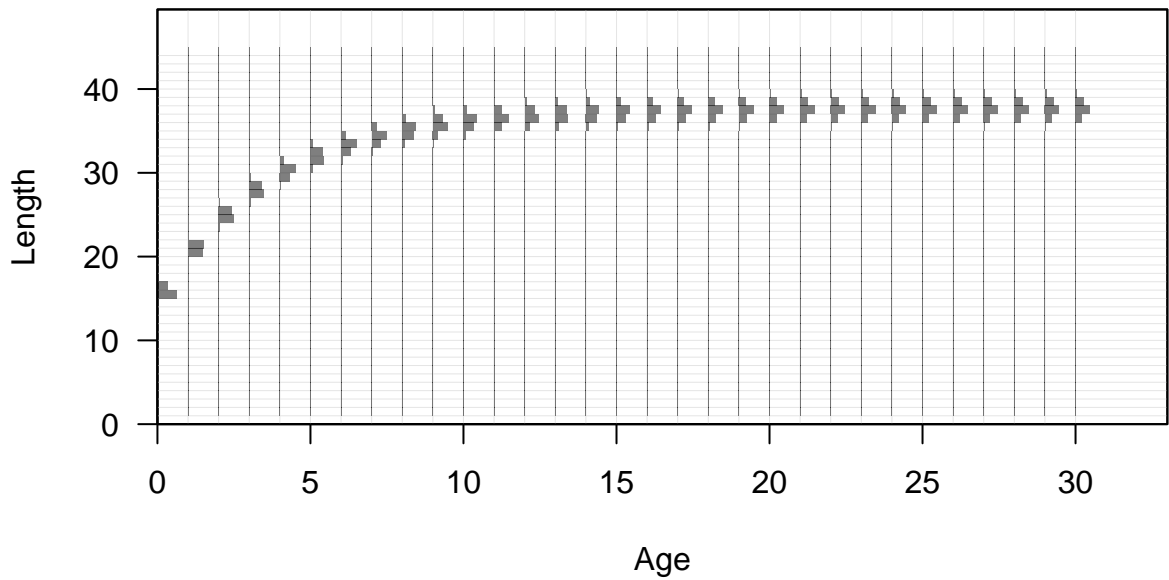


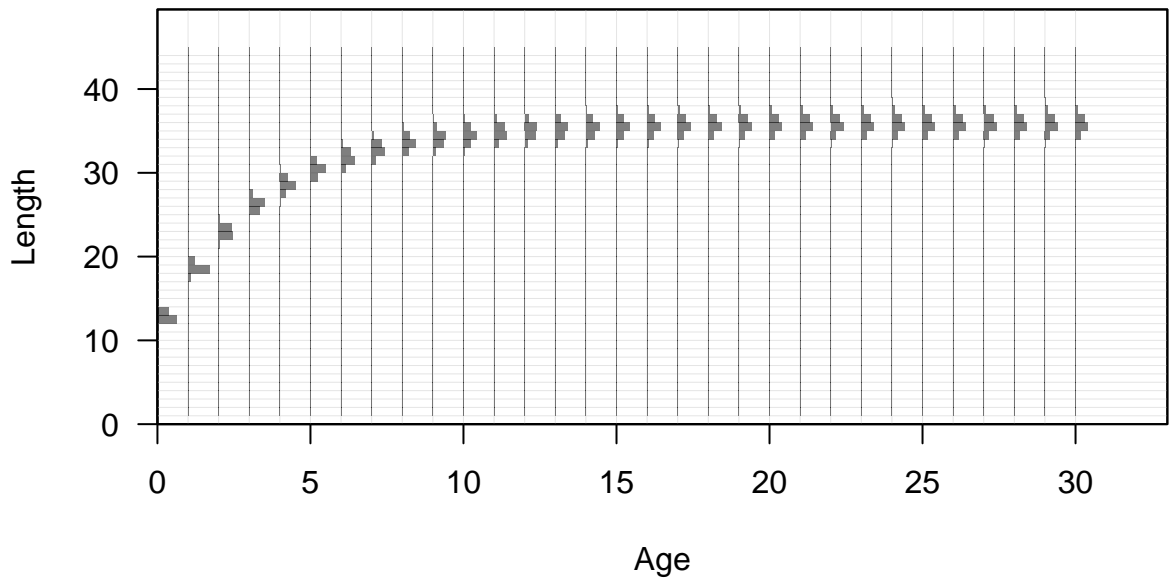


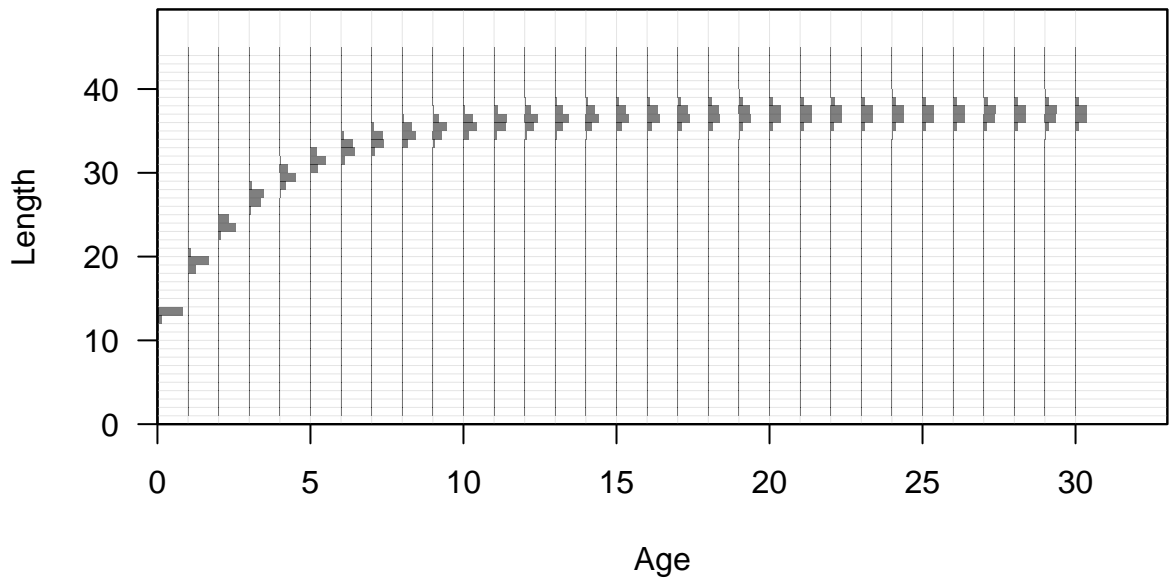


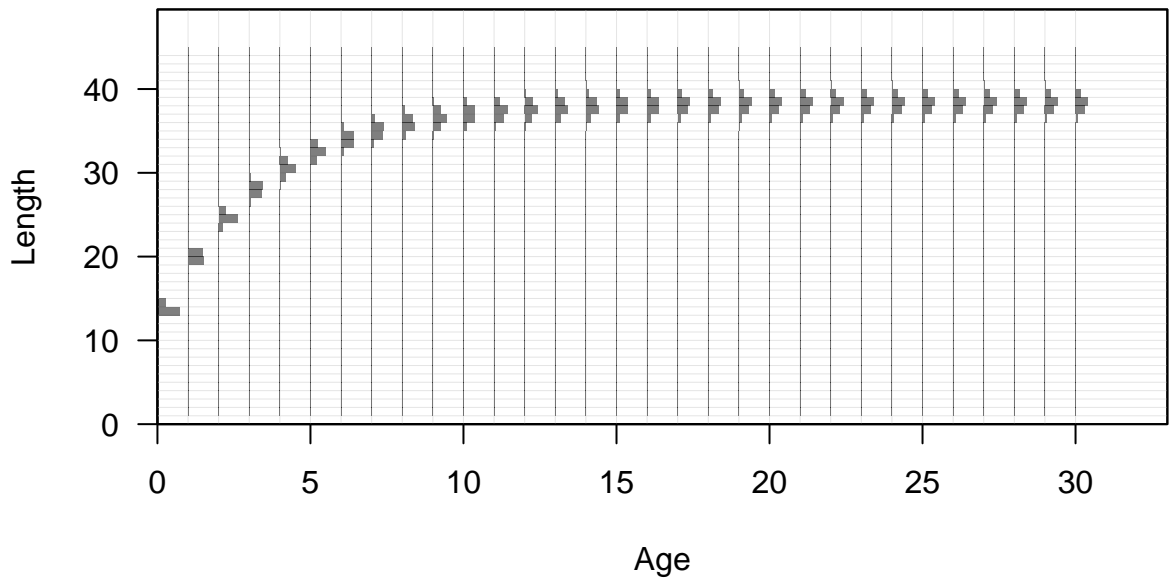


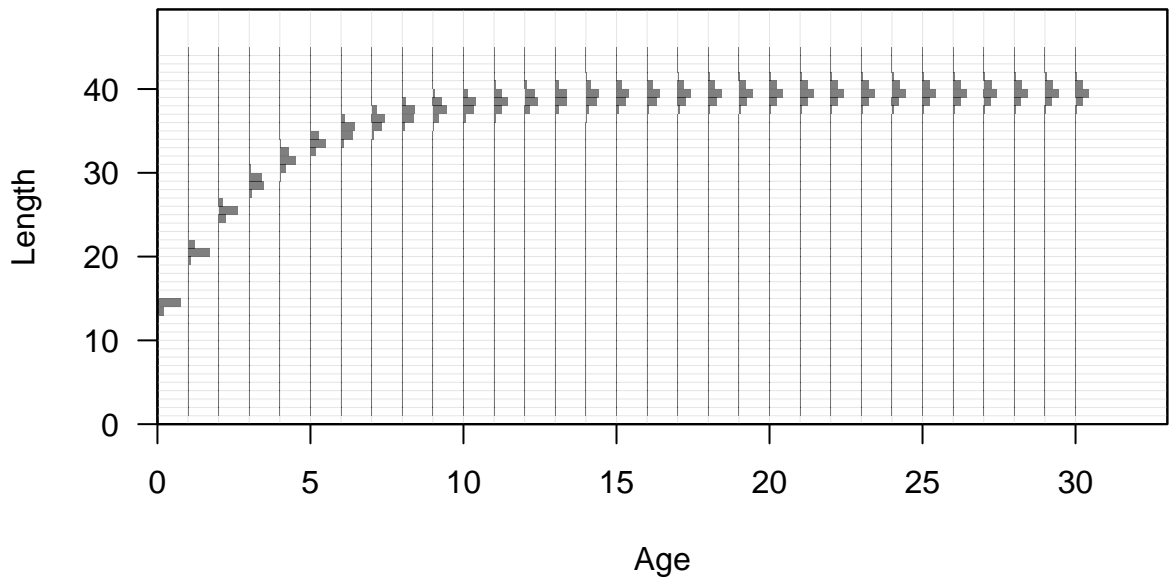


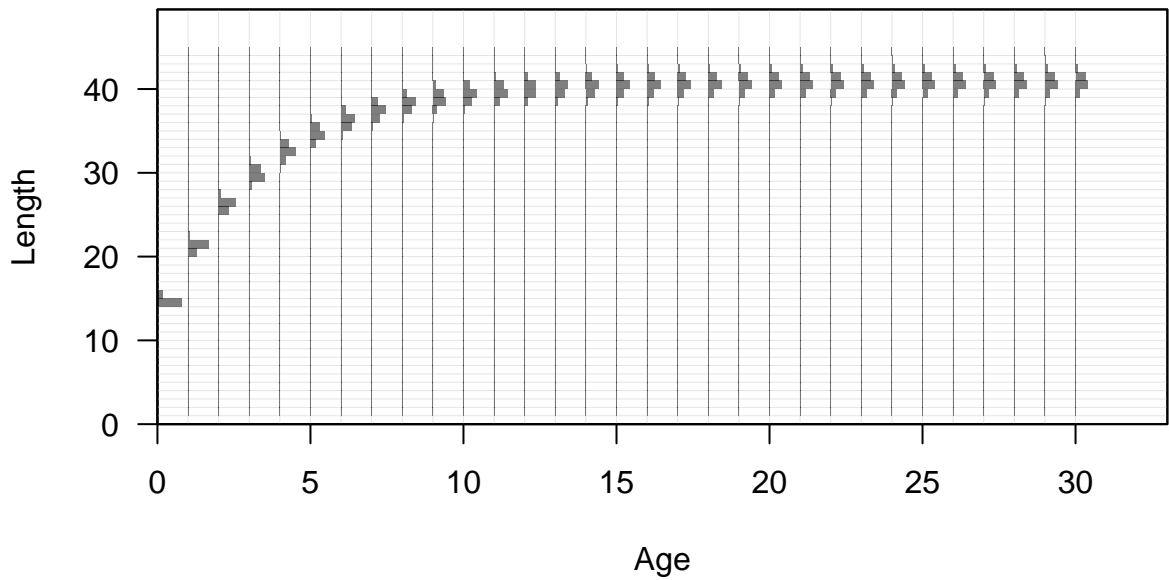


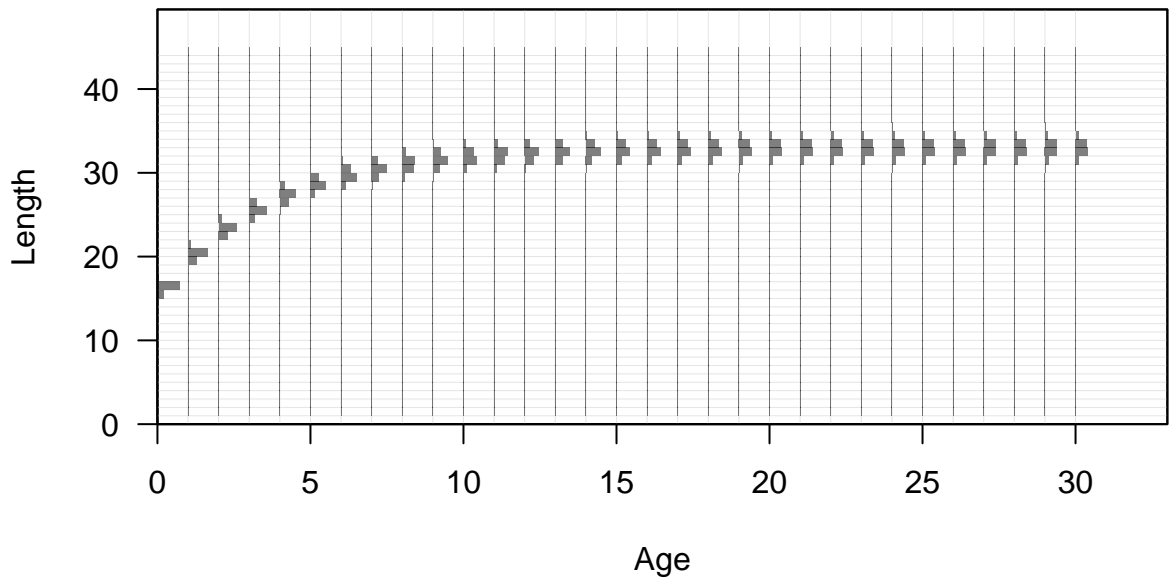


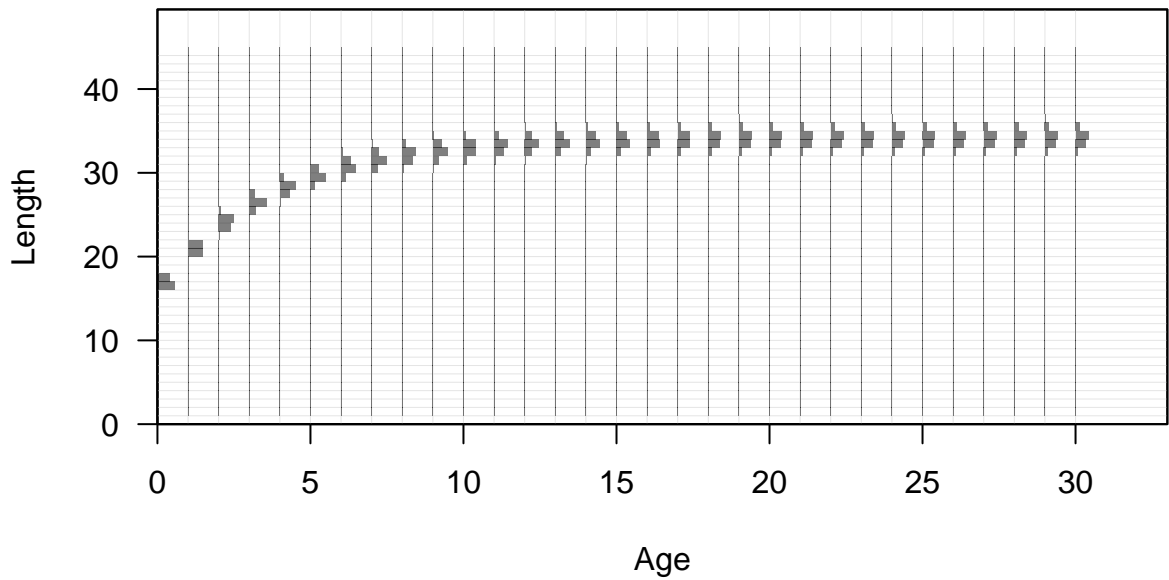




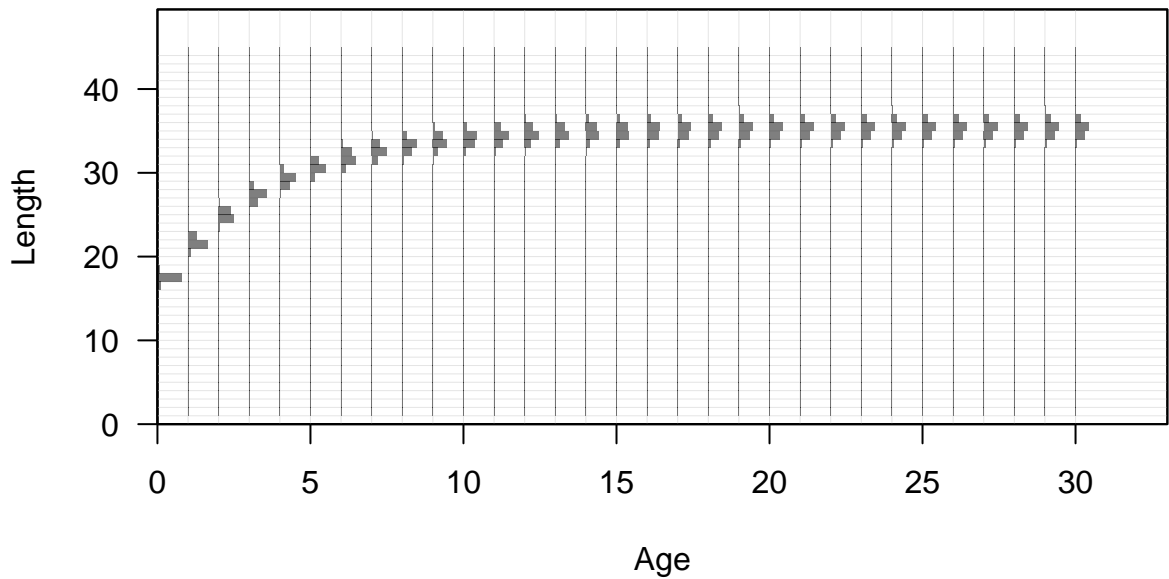


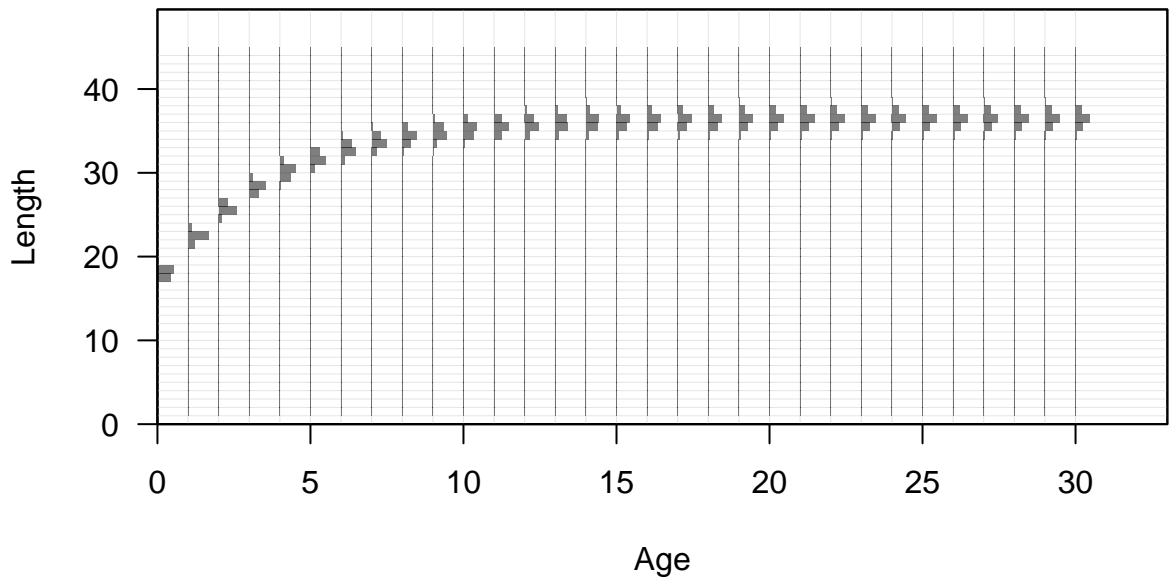


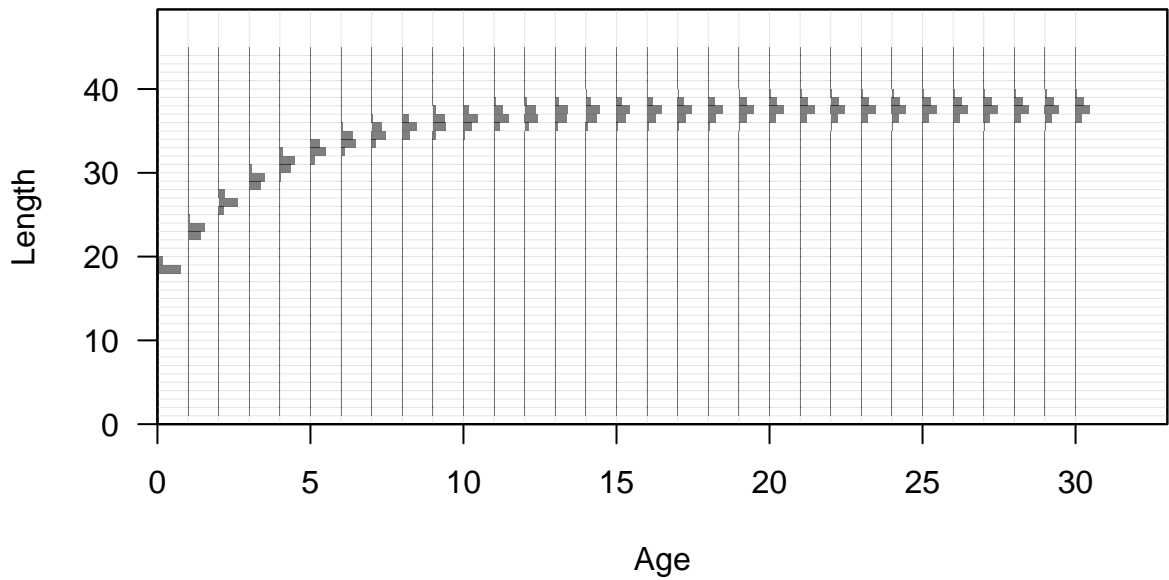


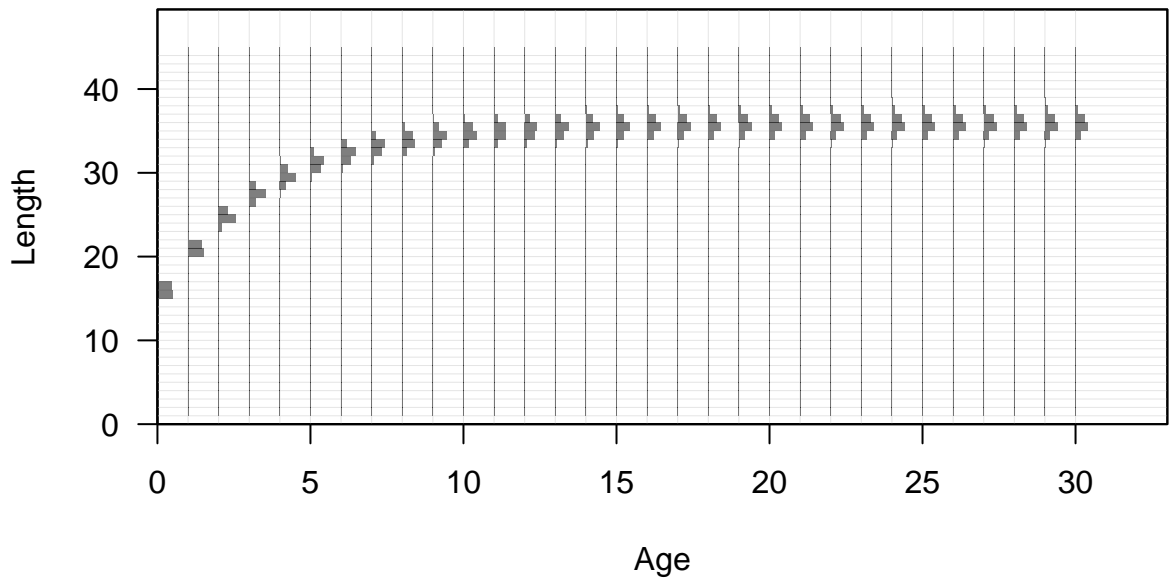


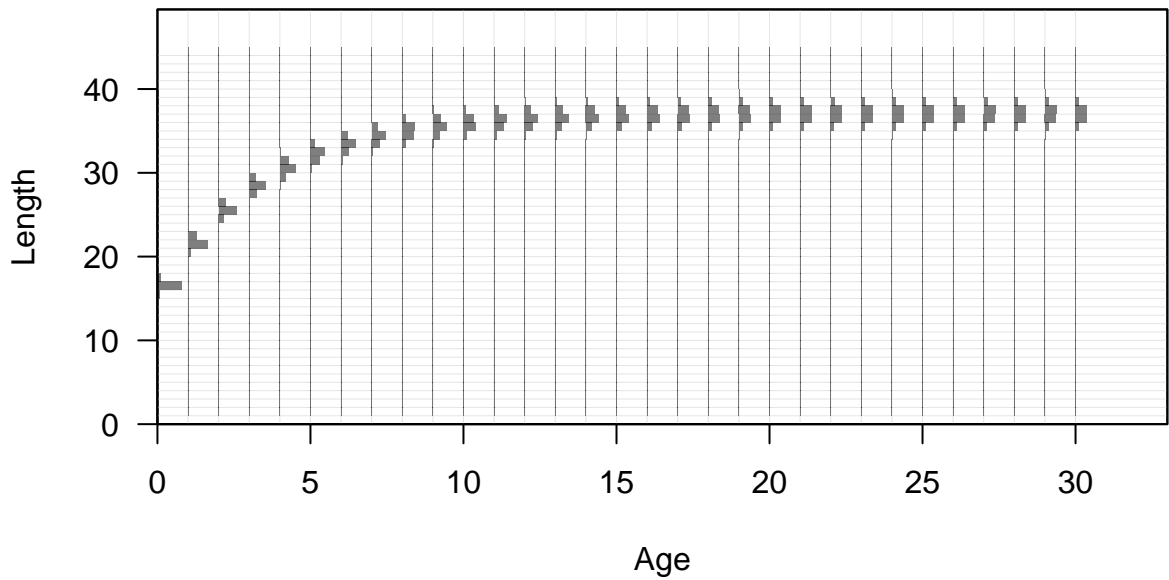


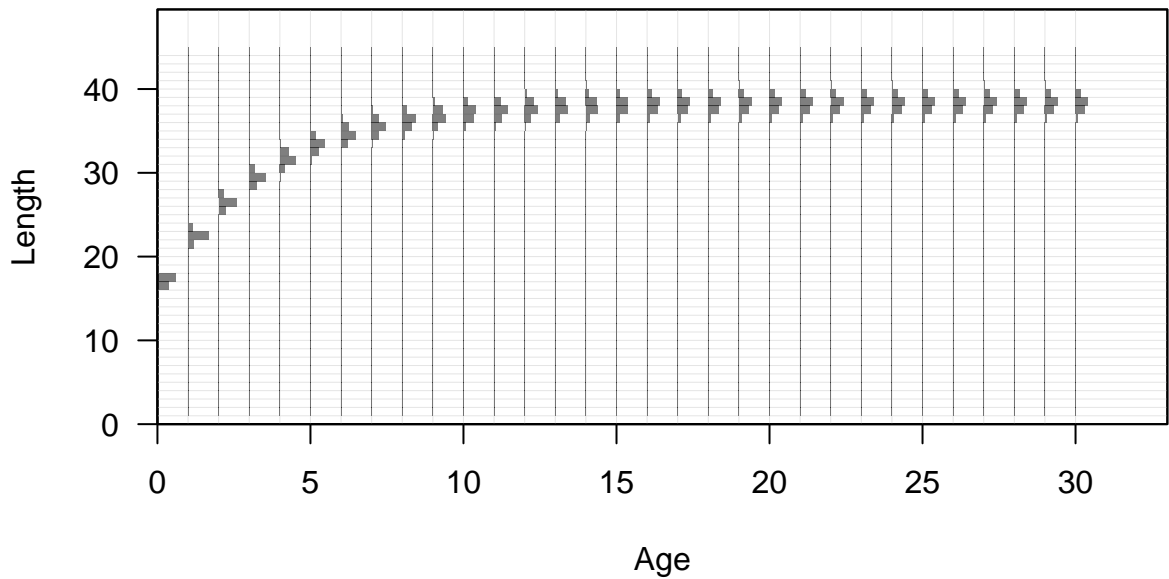


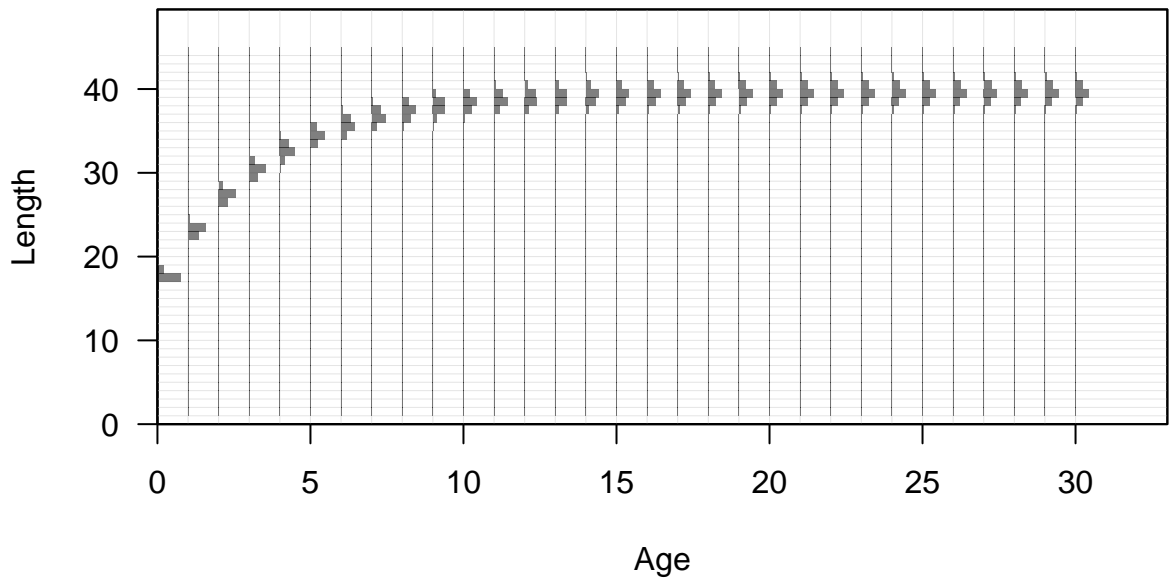


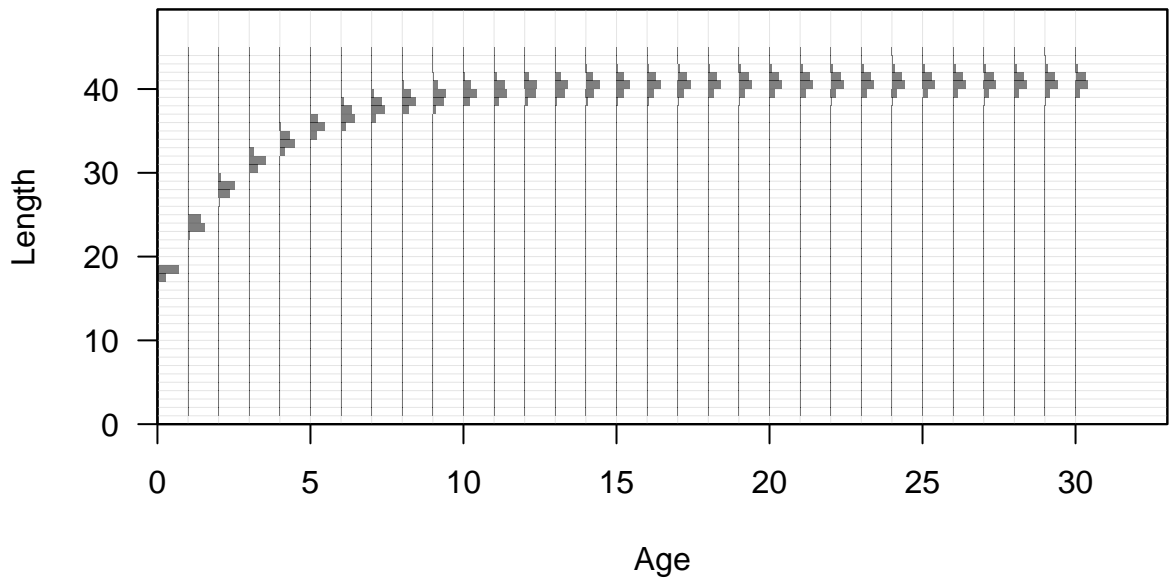


















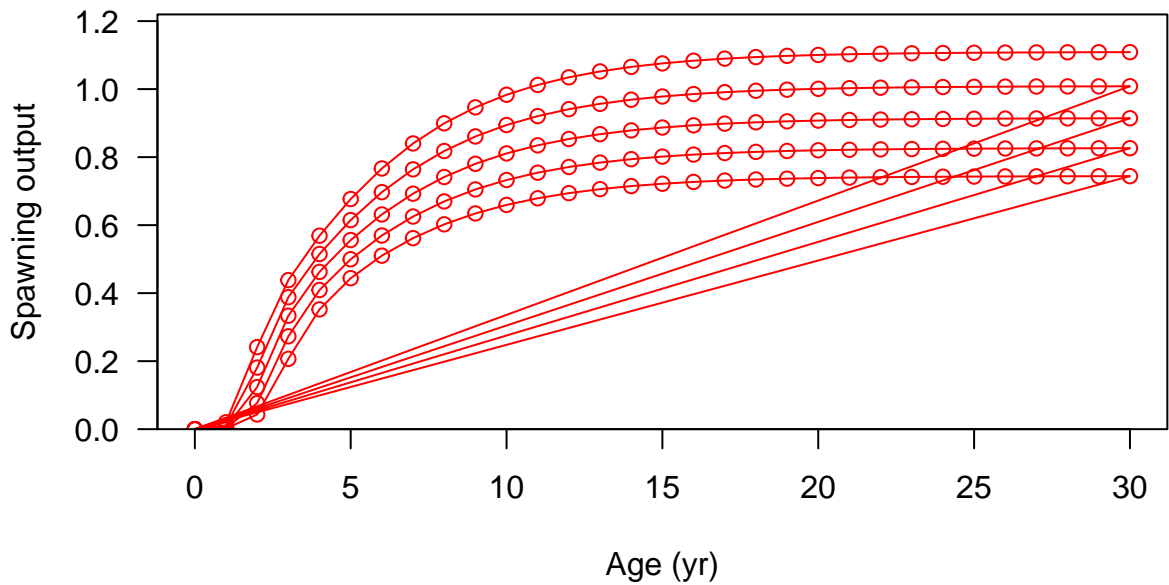






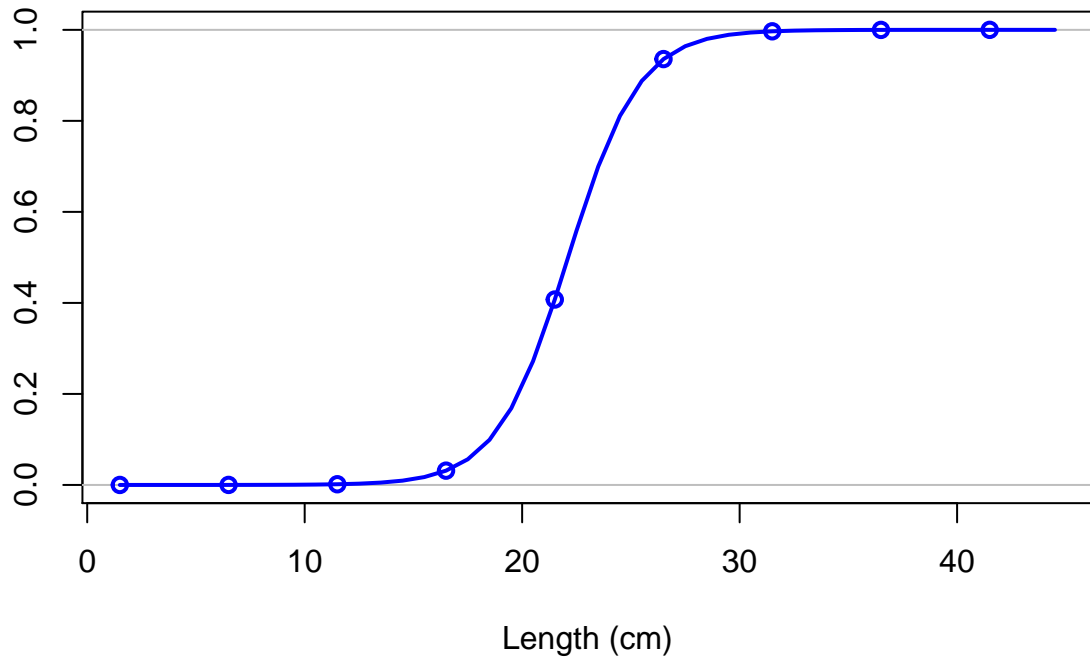




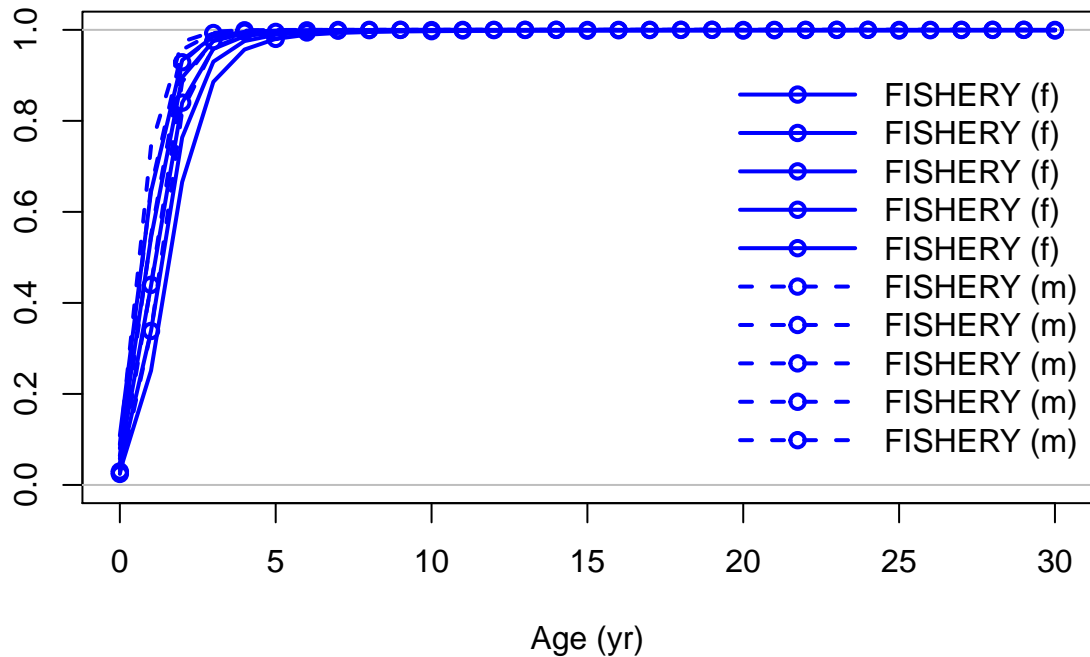




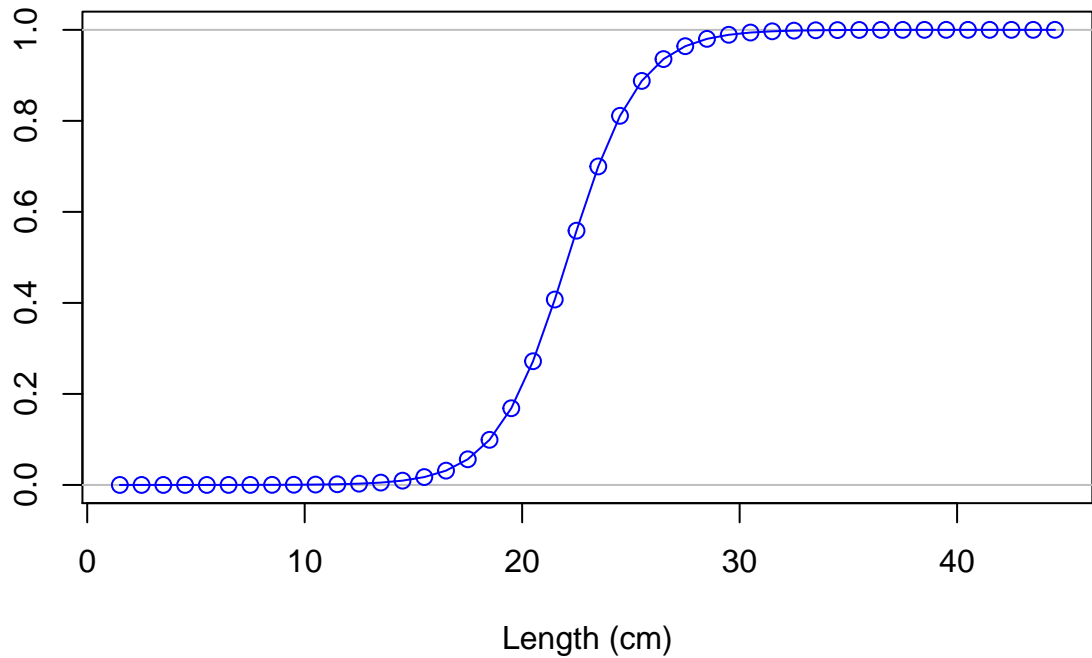
Selectivity



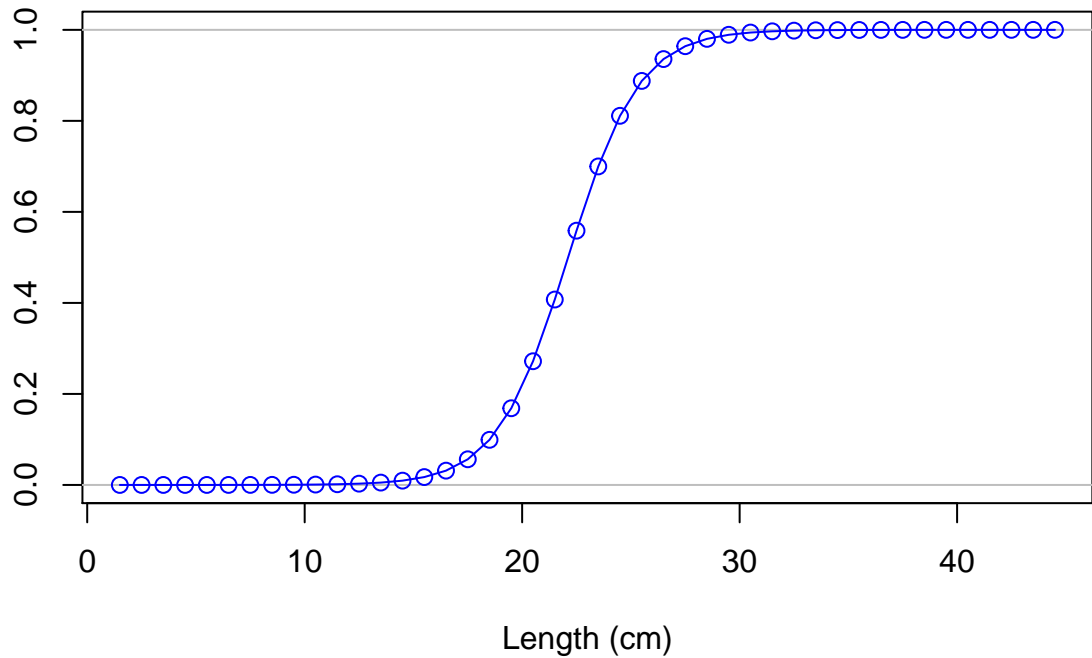
Selectivity

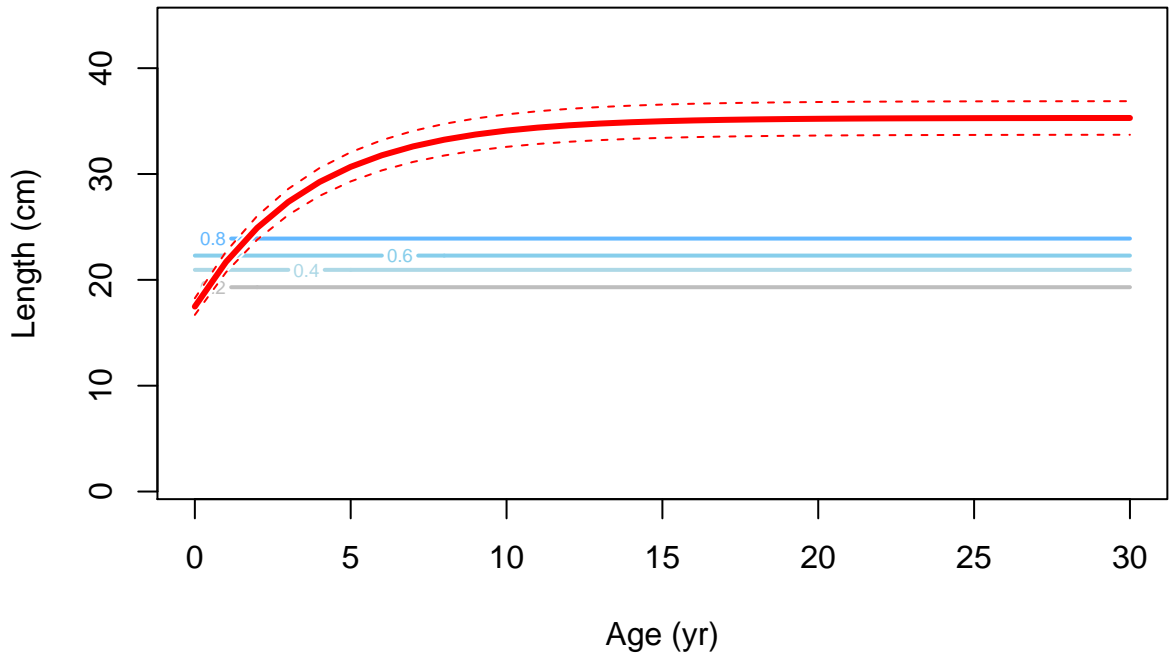


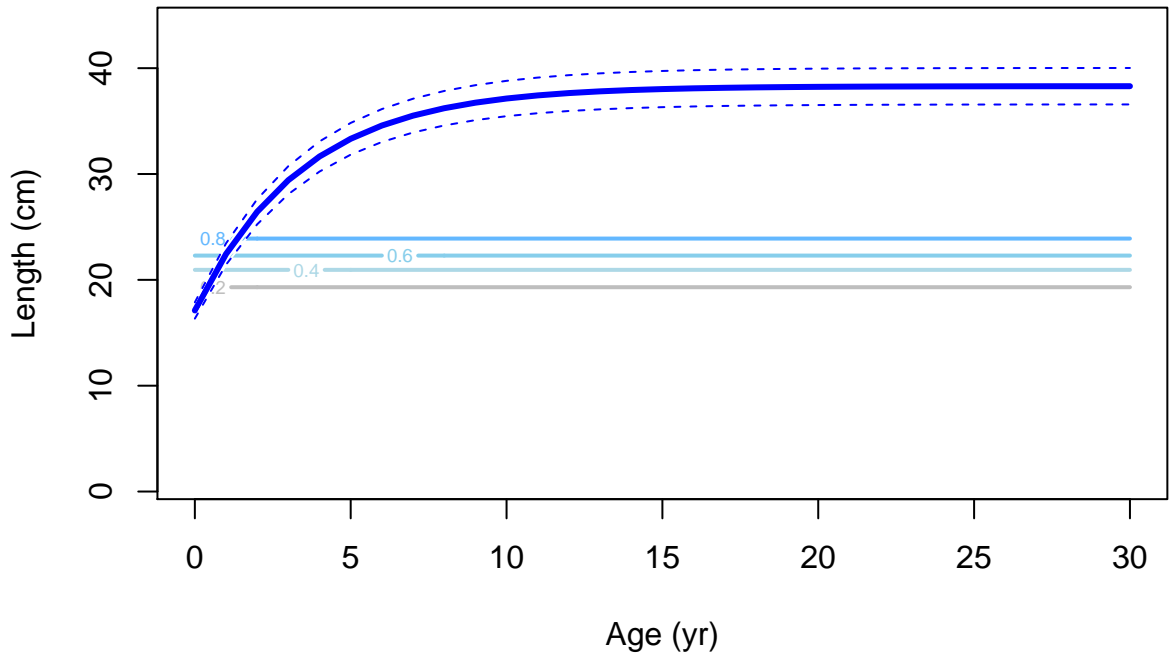
Selectivity

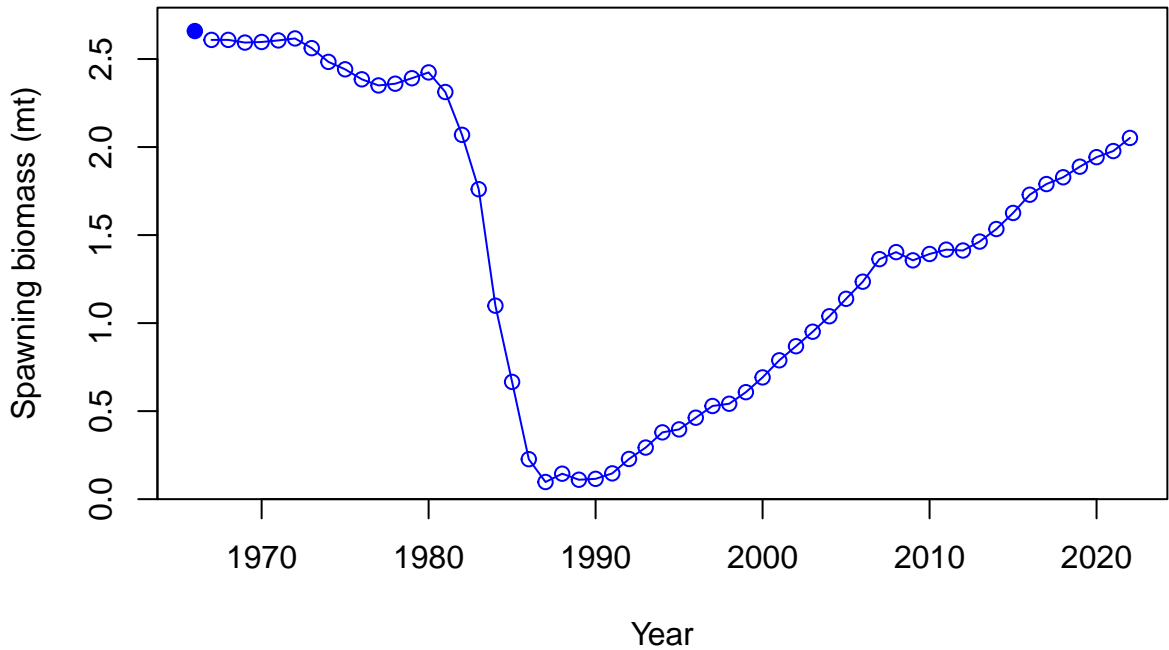


Selectivity

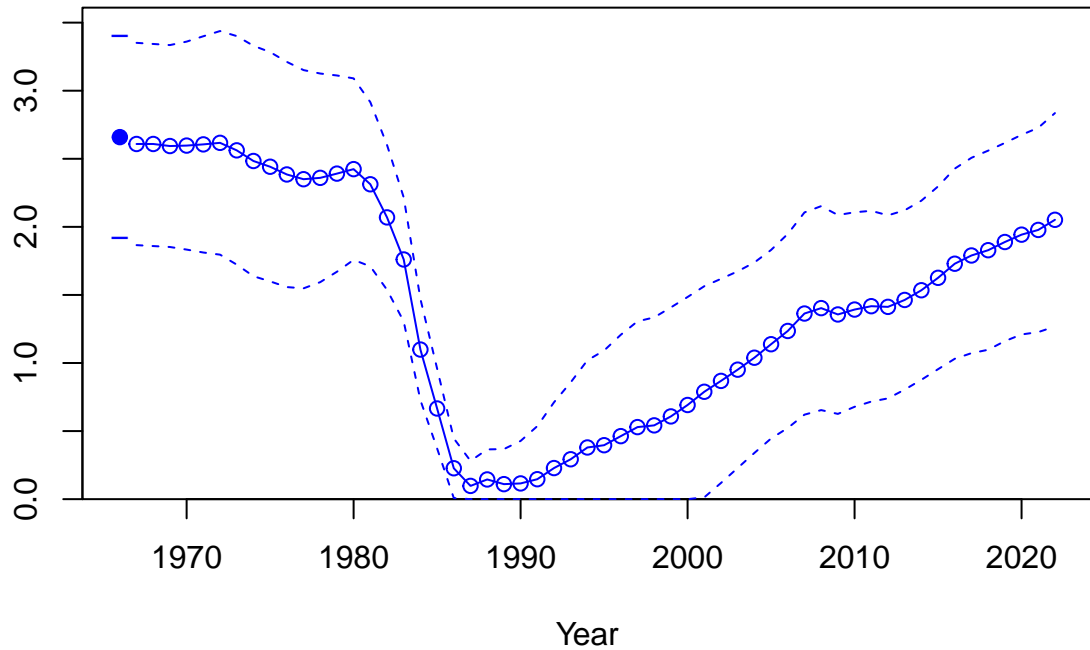






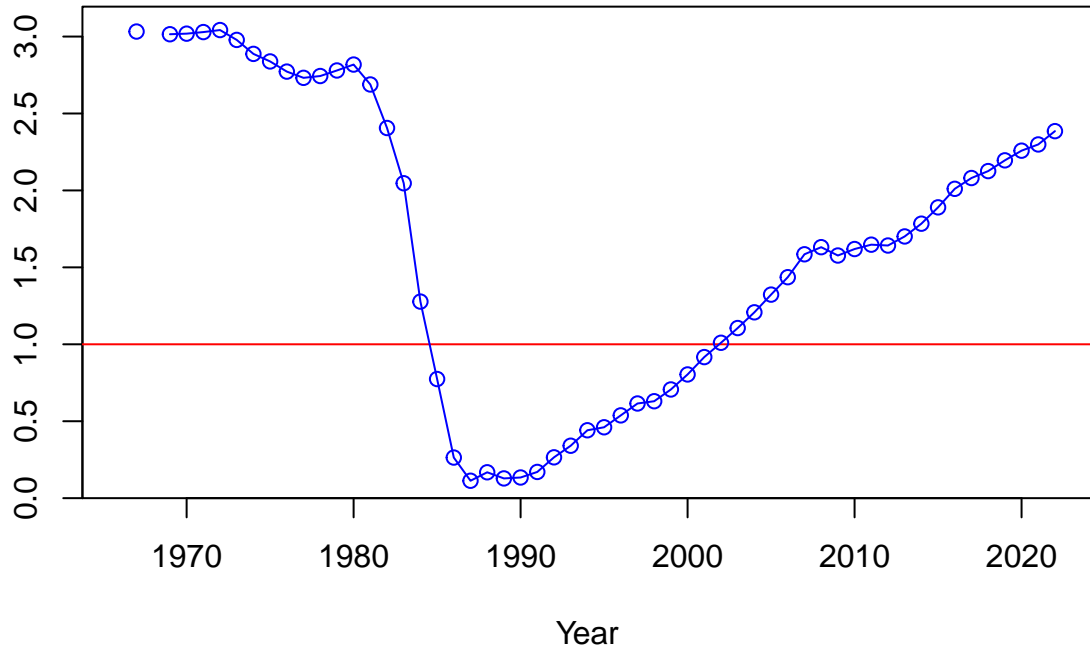


Spawning biomass (mt)

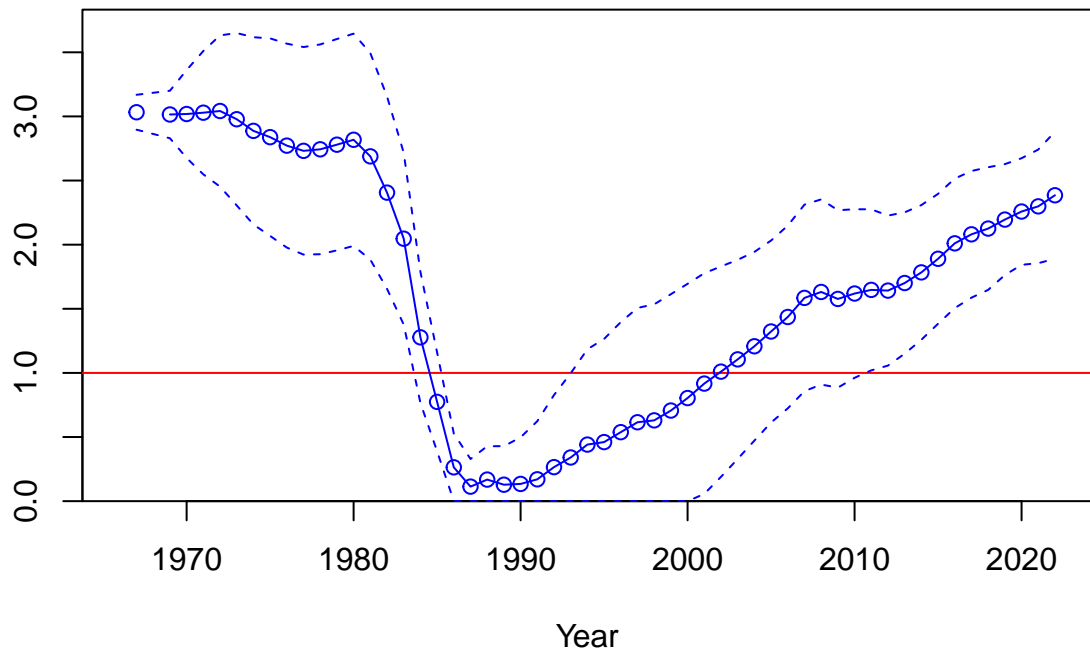


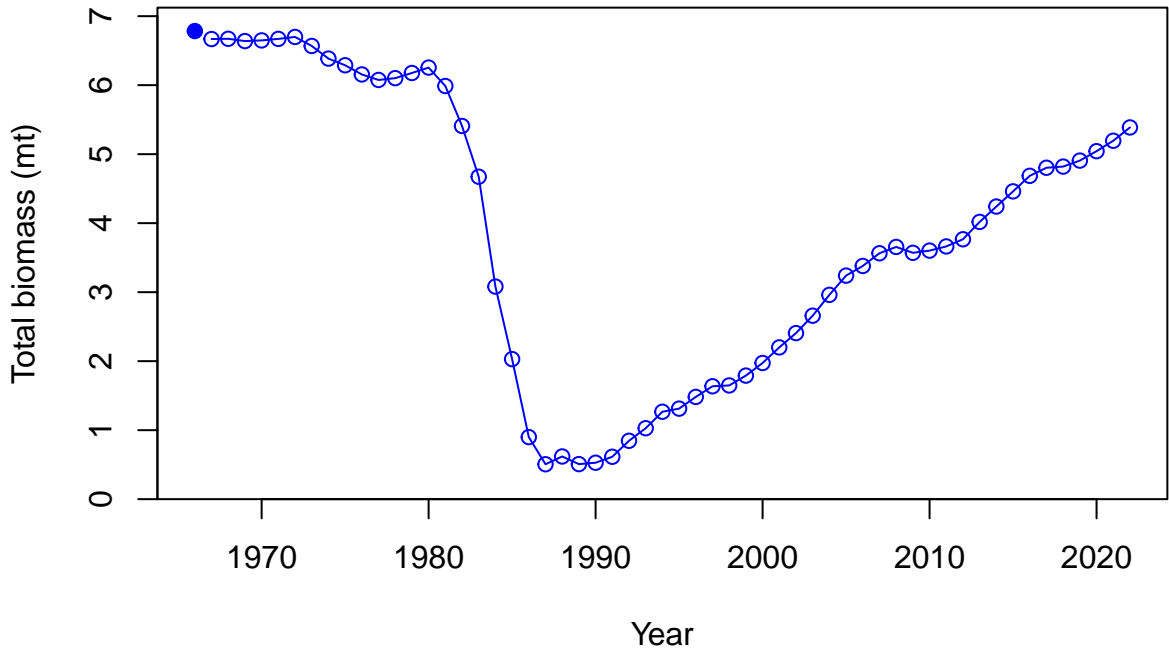


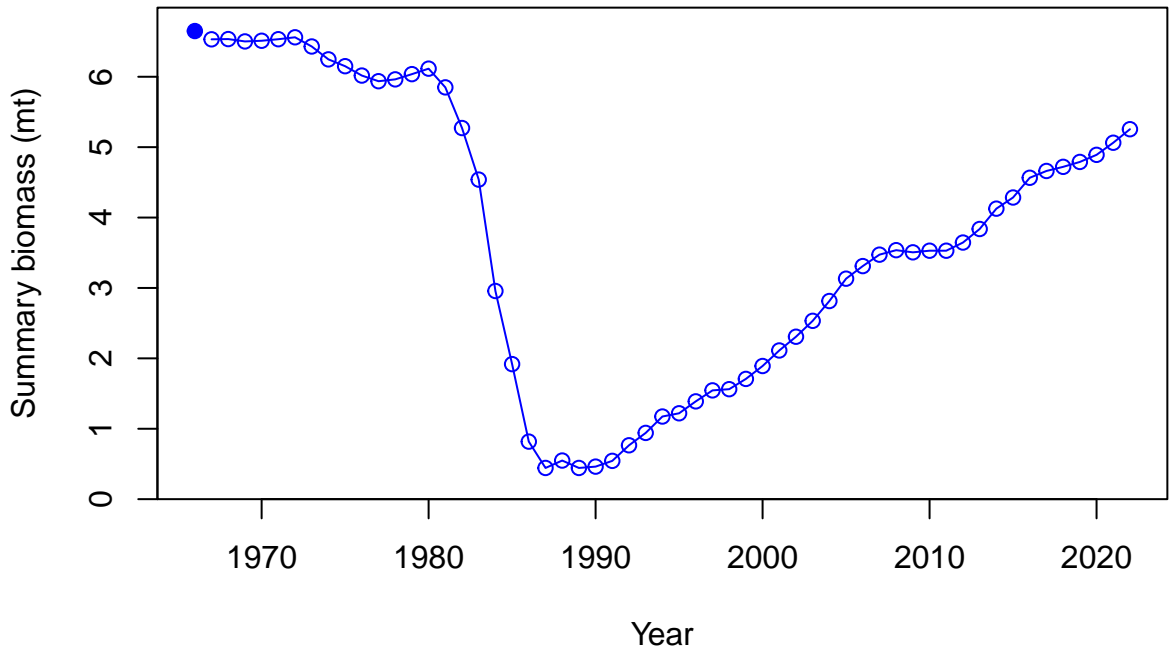
Relative spawning biomass:  $B/B_{MSY}$



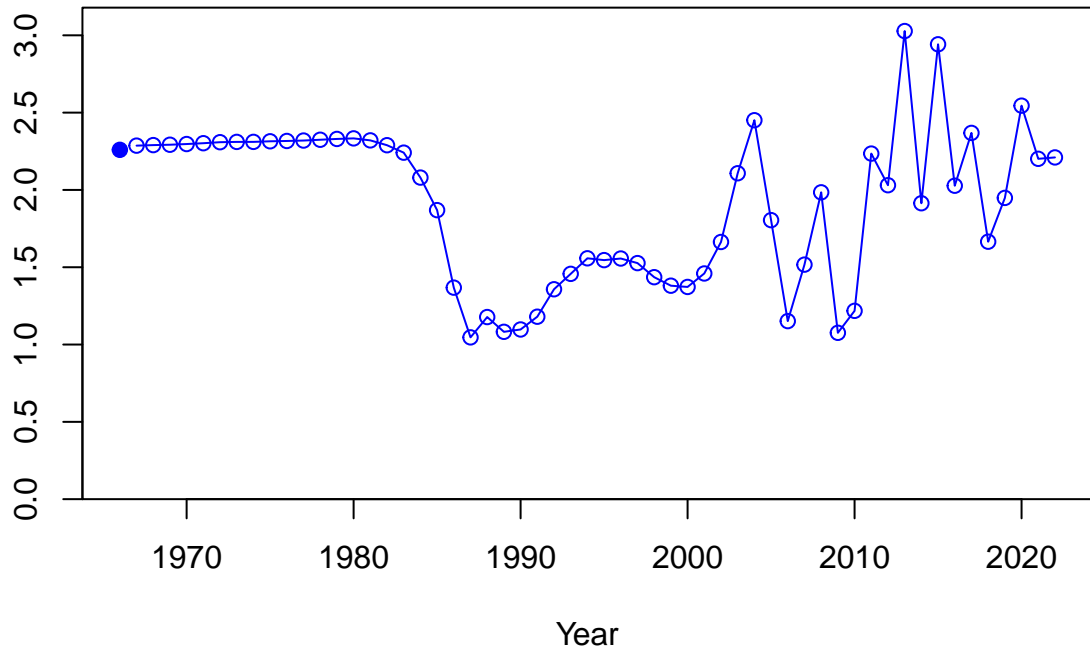
Relative spawning biomass:  $B/B_{MSY}$



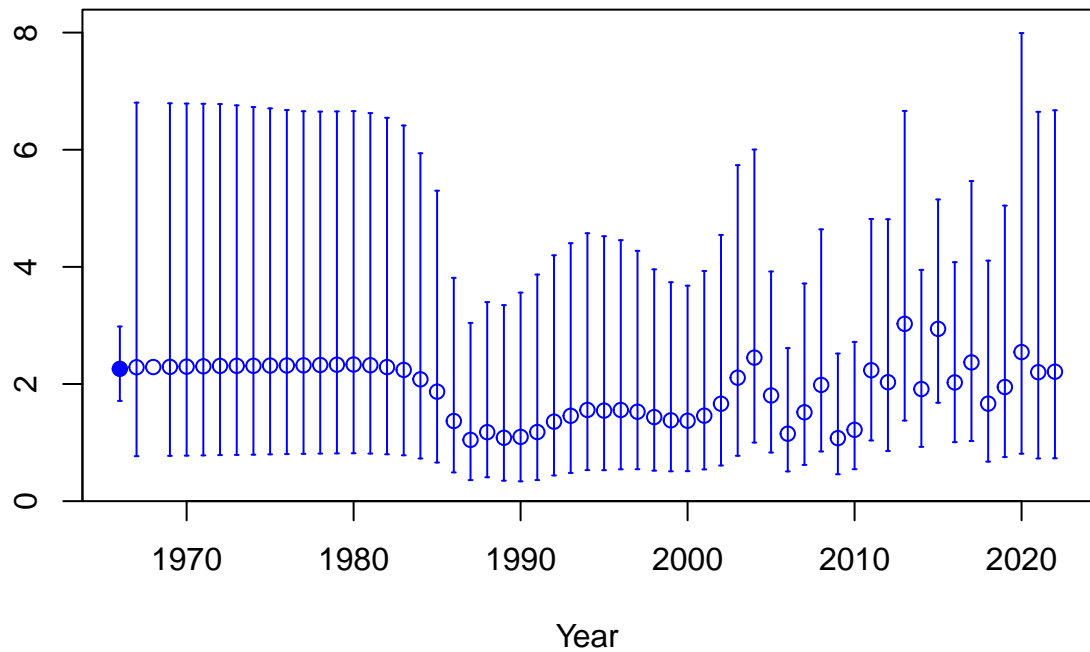




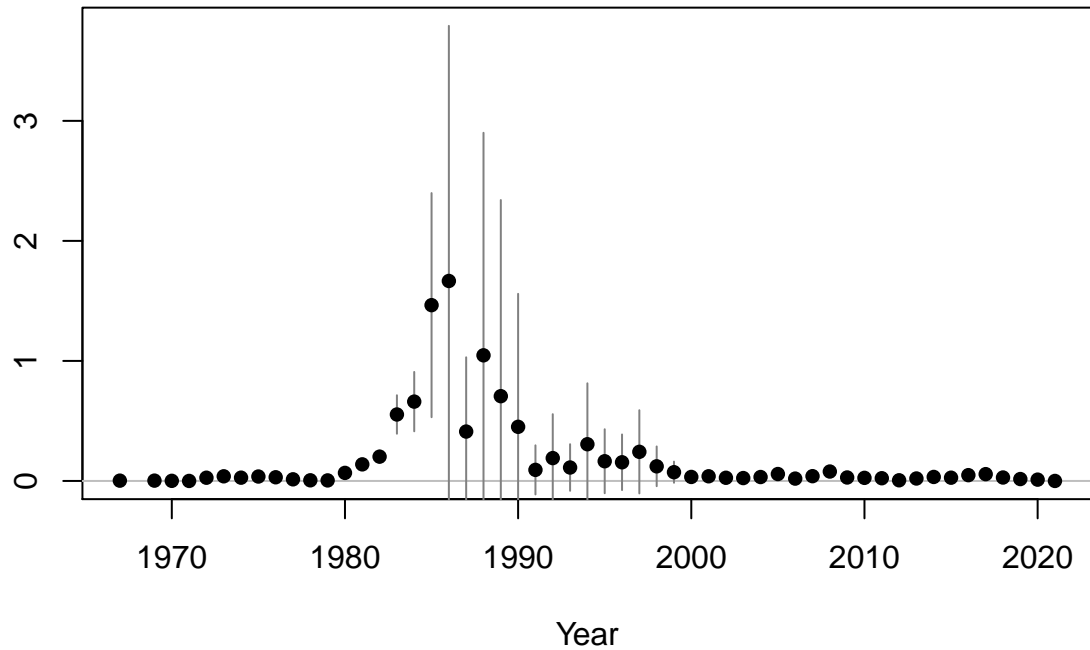
Age-0 recruits (1,000s)

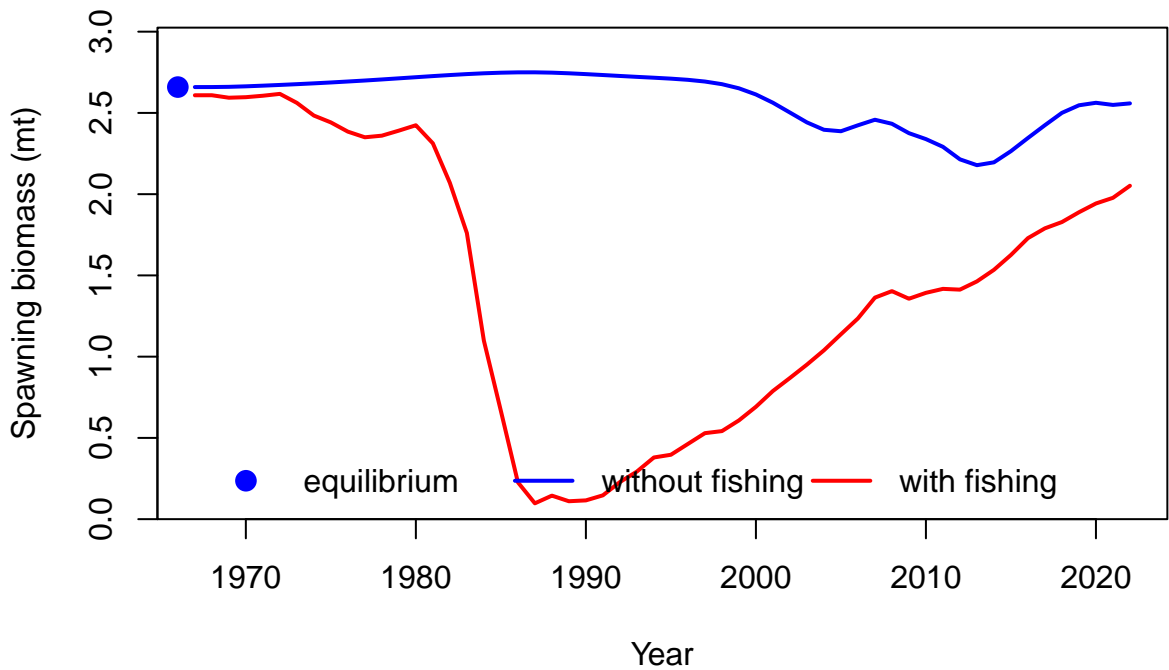


Age-0 recruits (1,000s)



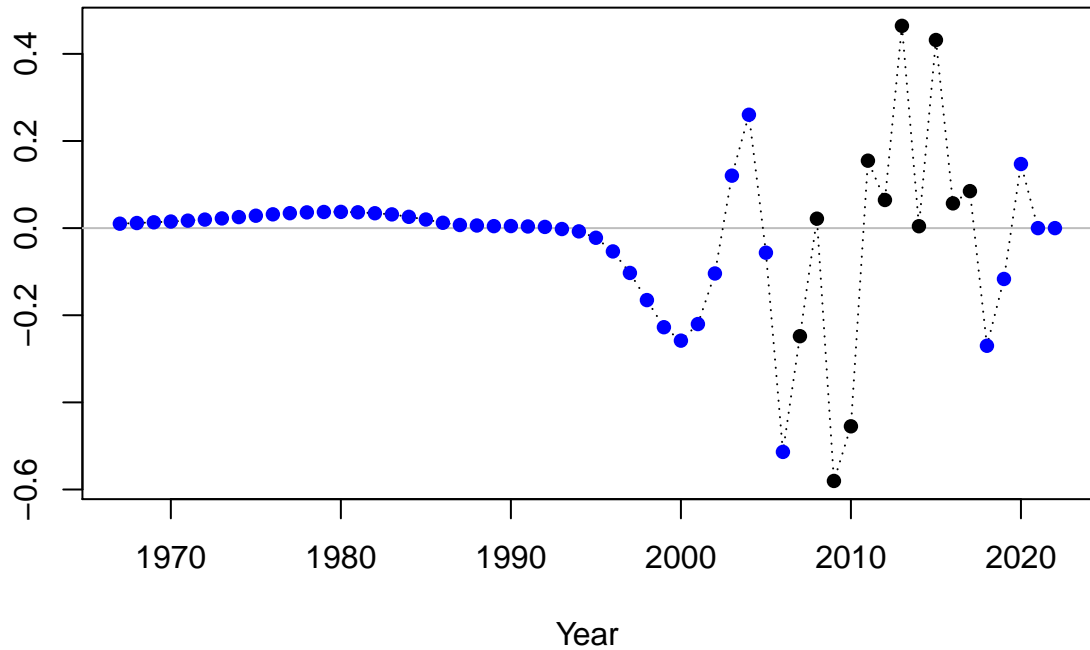
Summary Fishing Mortality



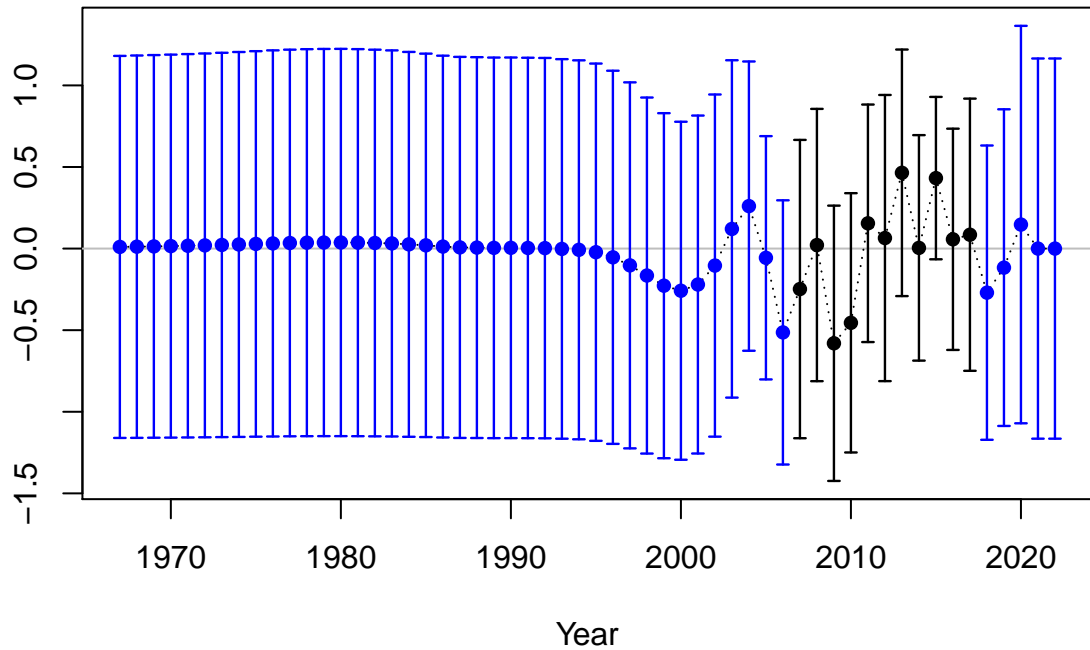




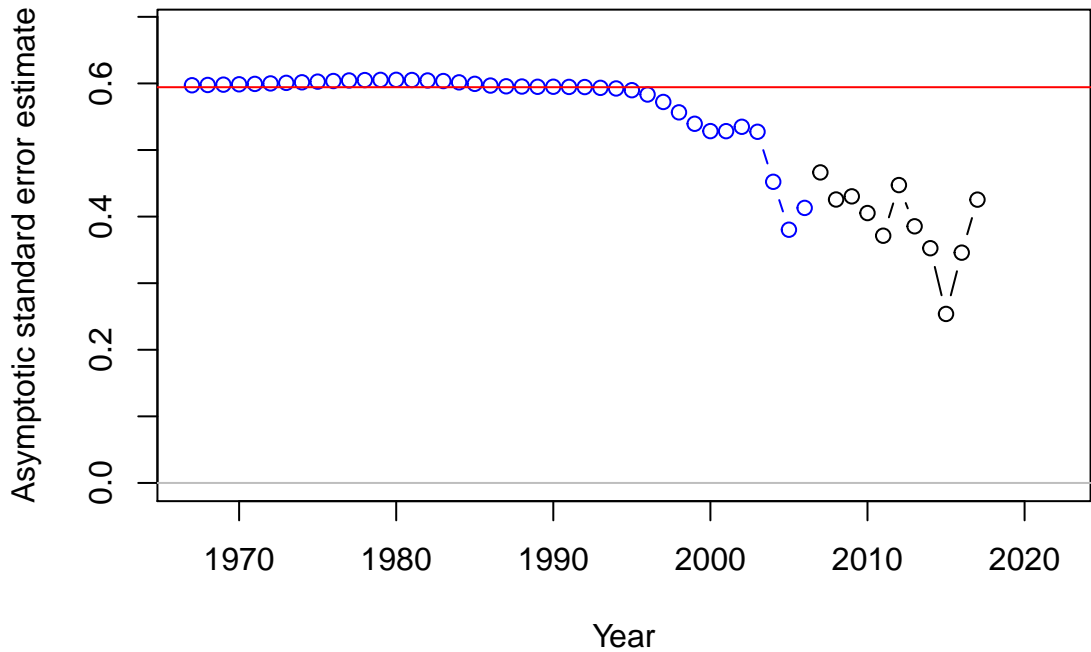
Log recruitment deviation

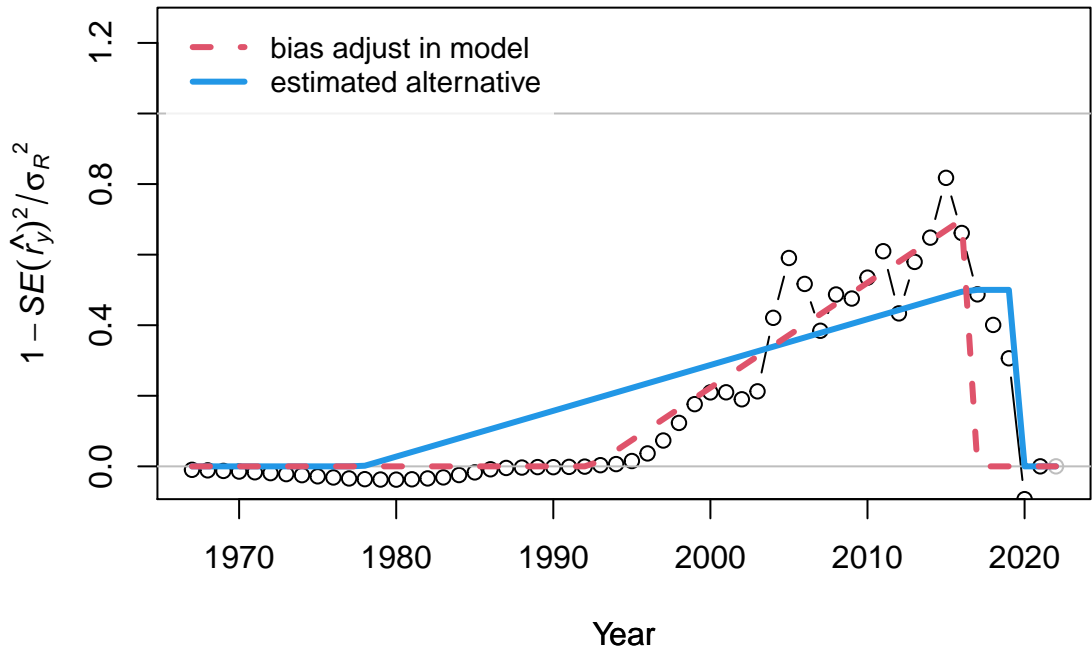


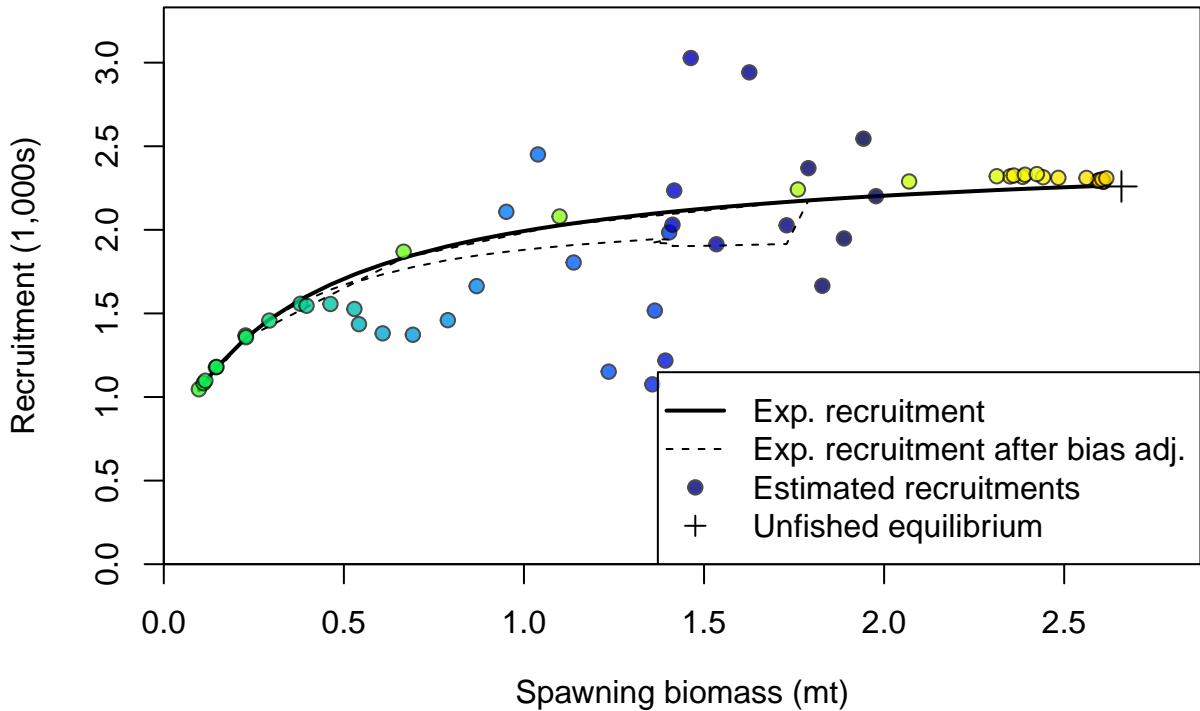
Log recruitment deviation

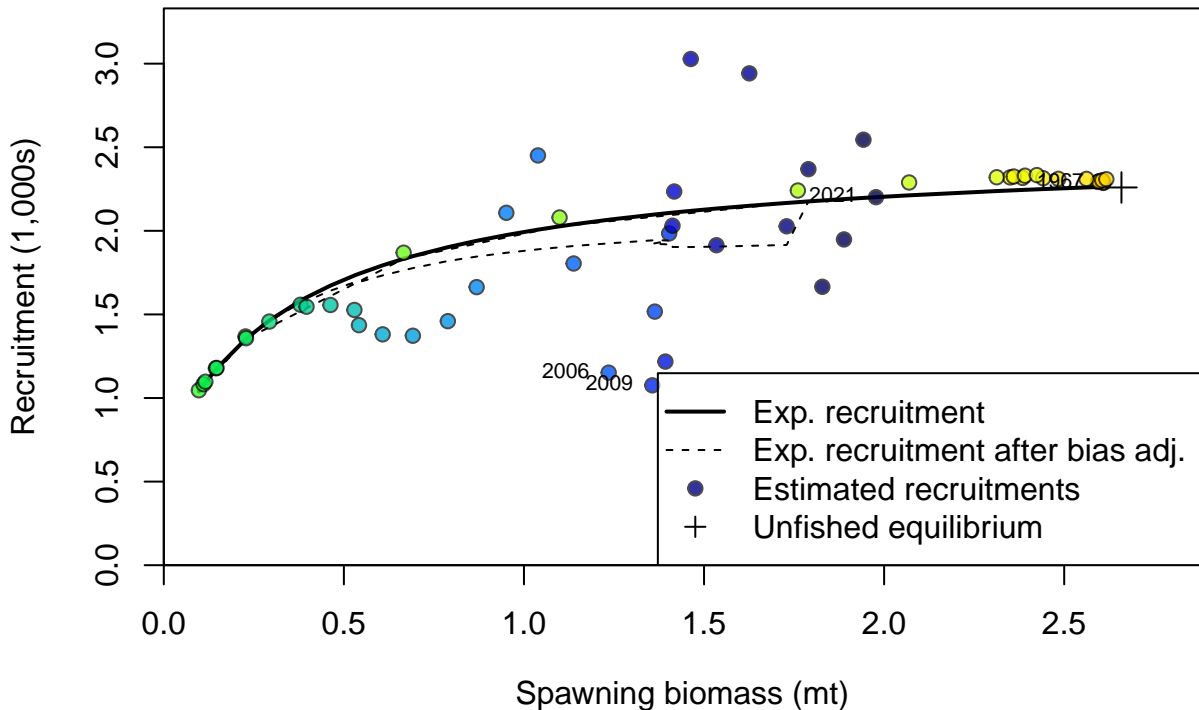


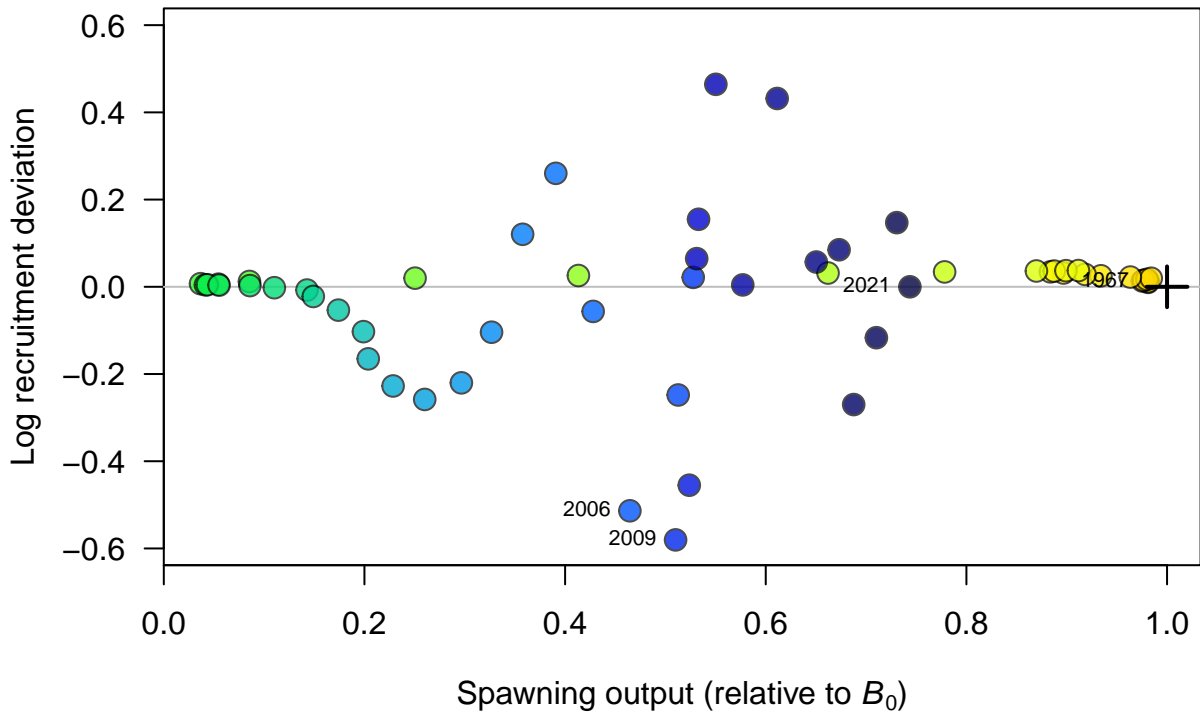
## Recruitment deviation variance

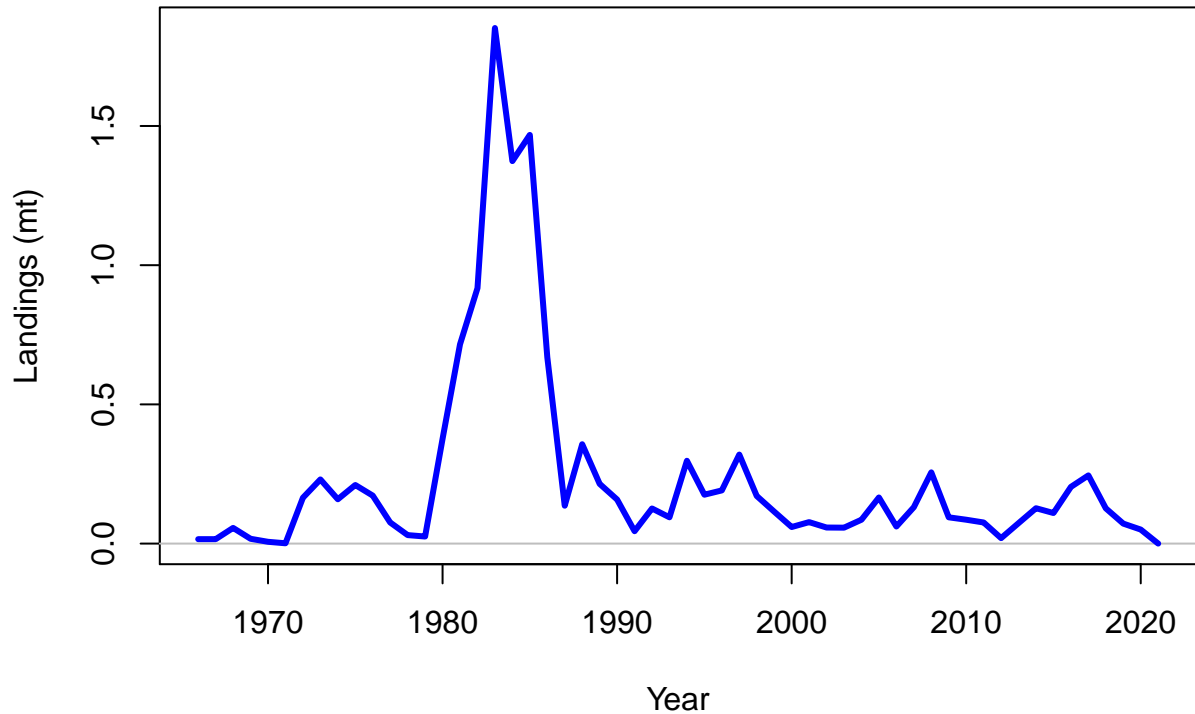




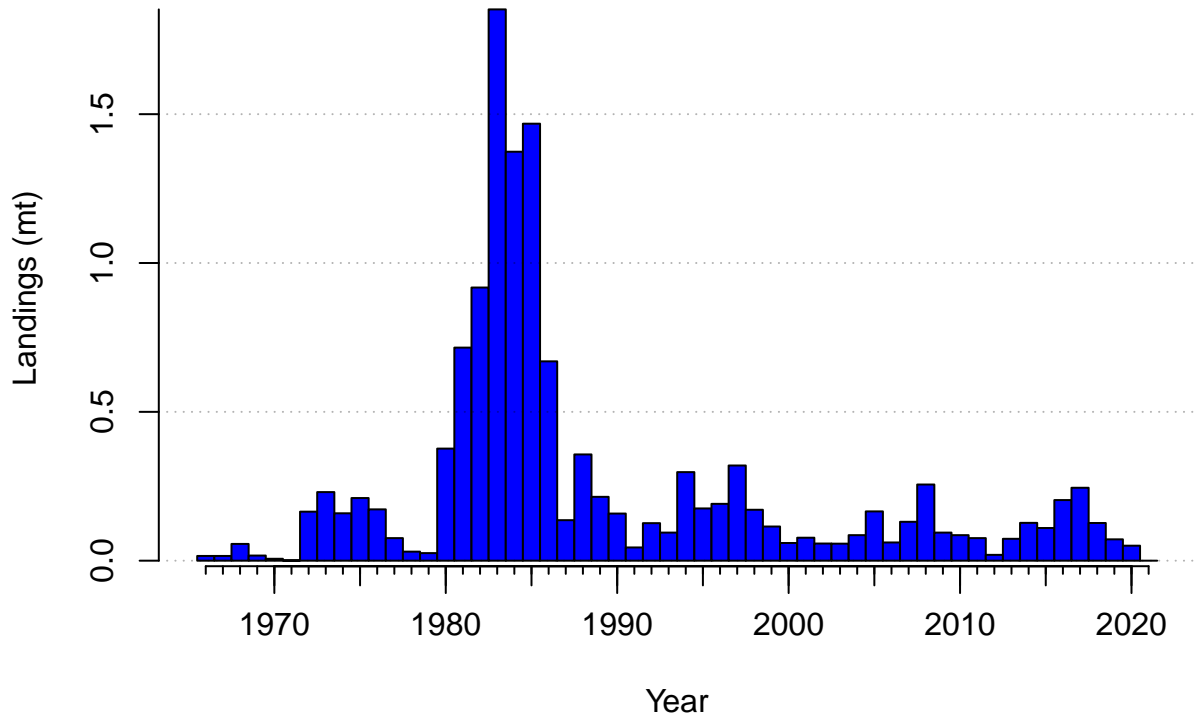


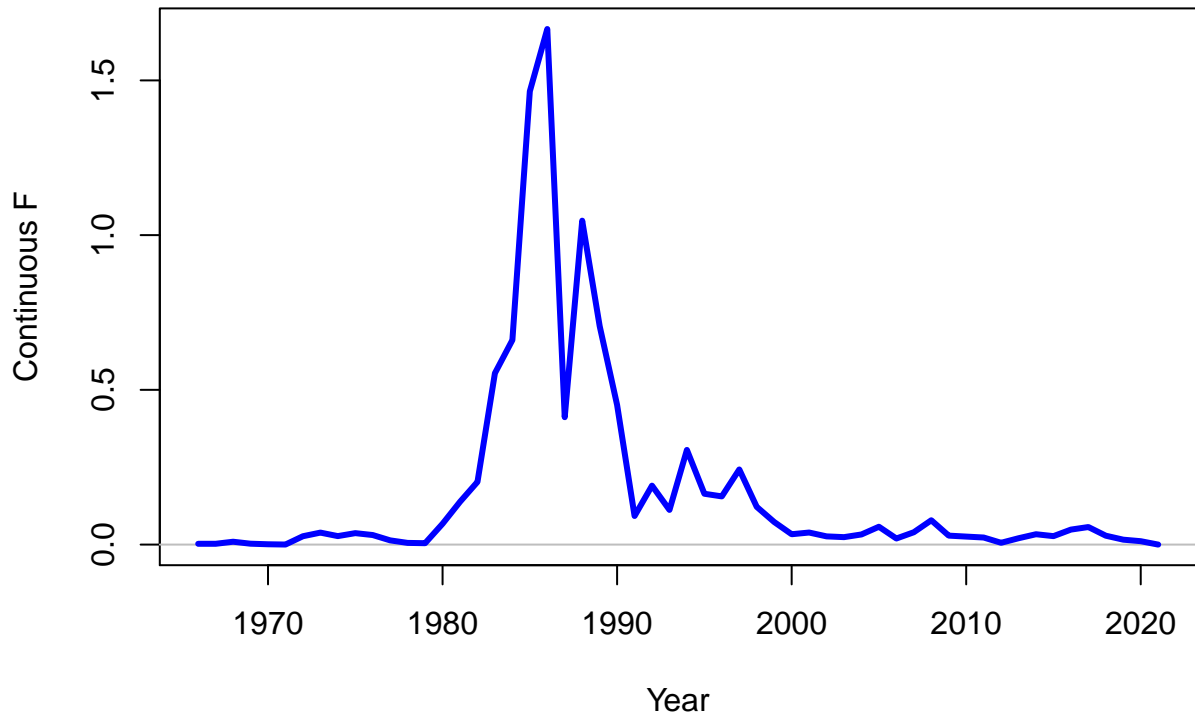




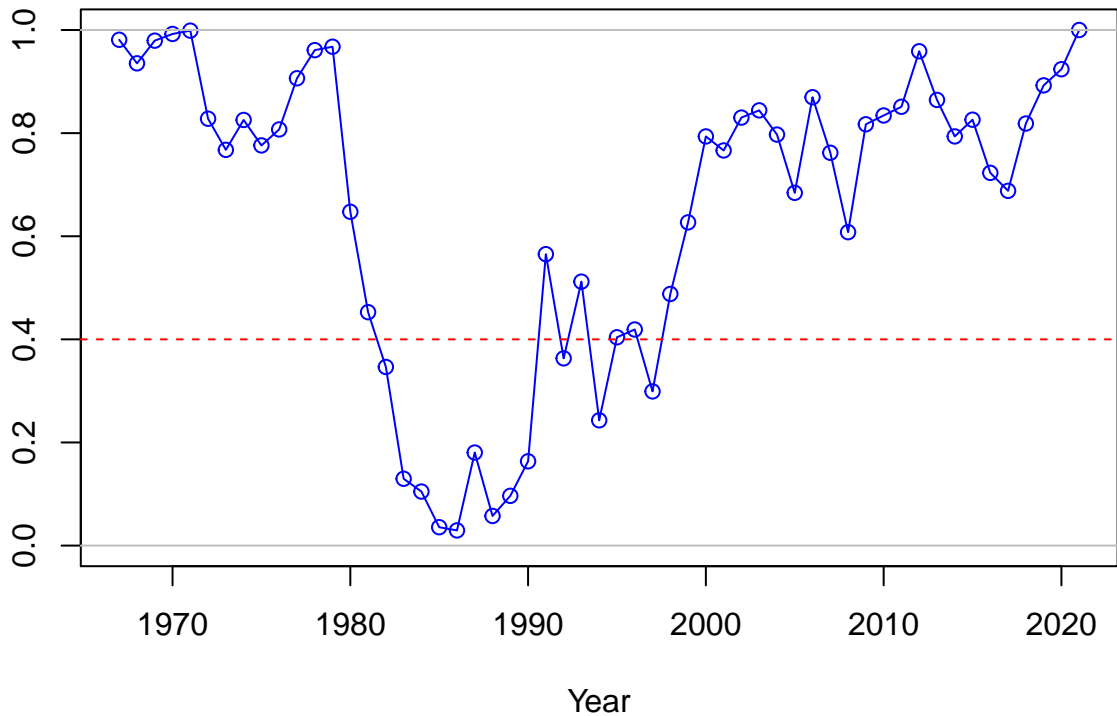




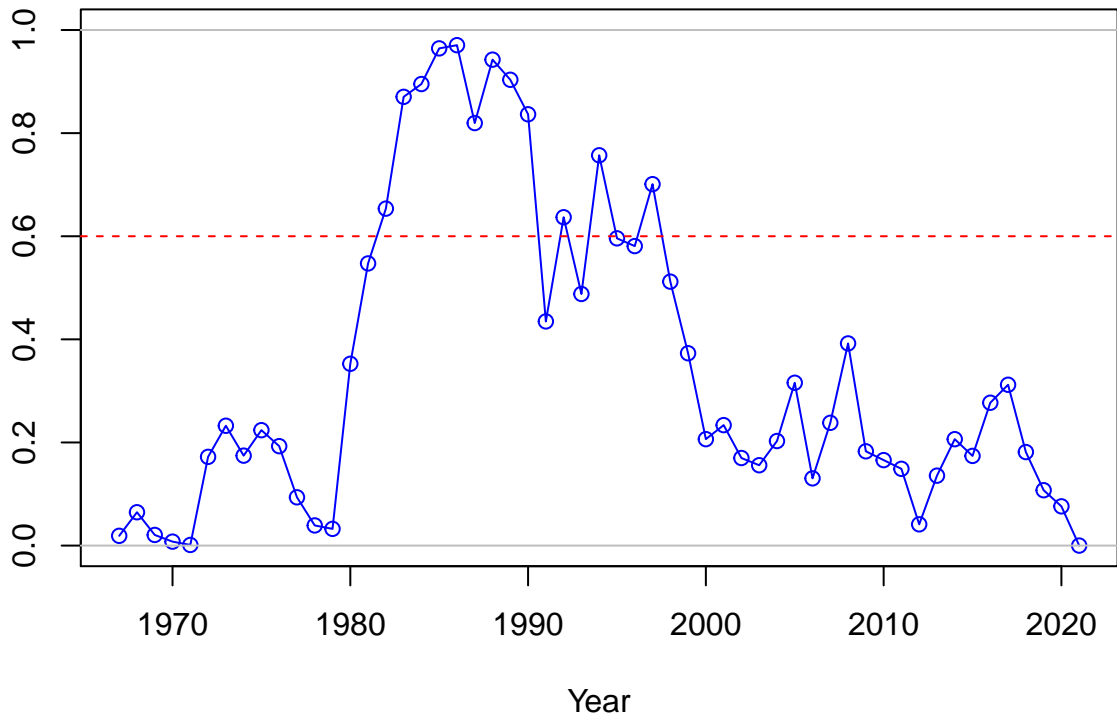




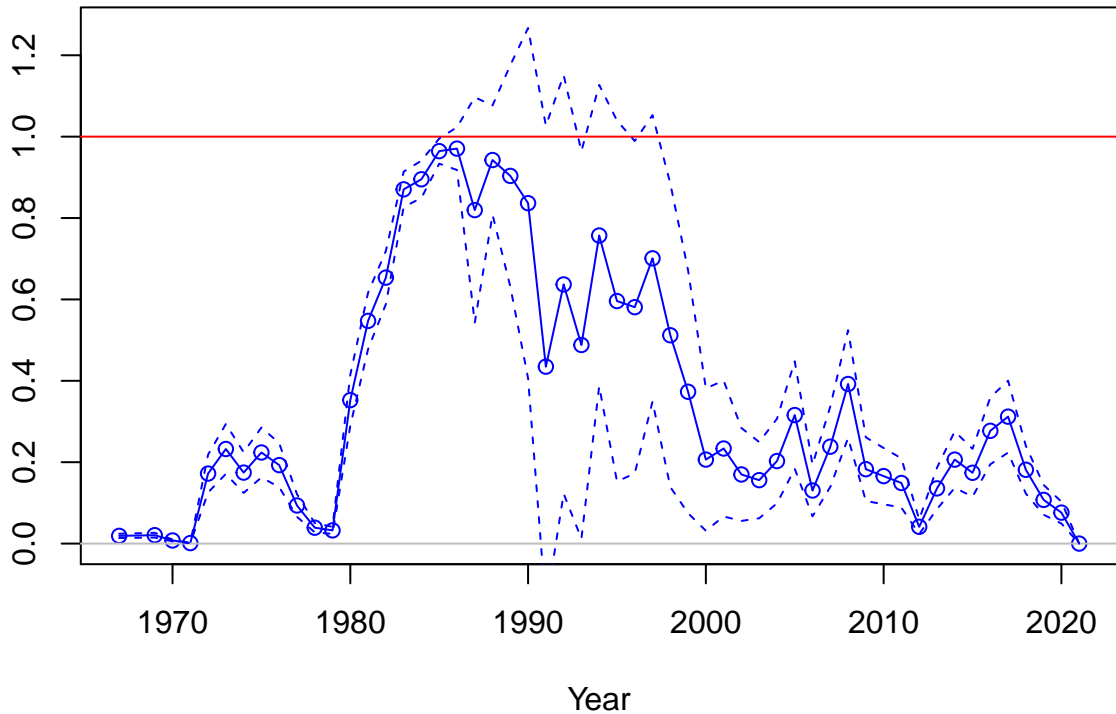
SPR

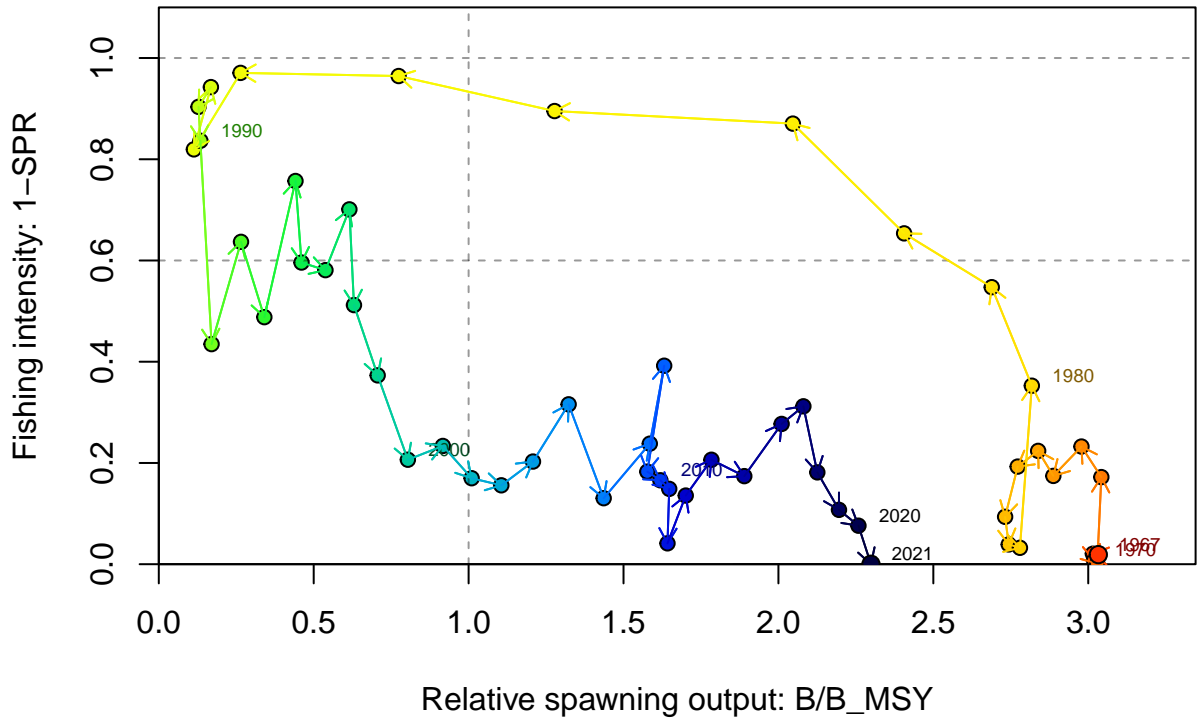


1-SPR

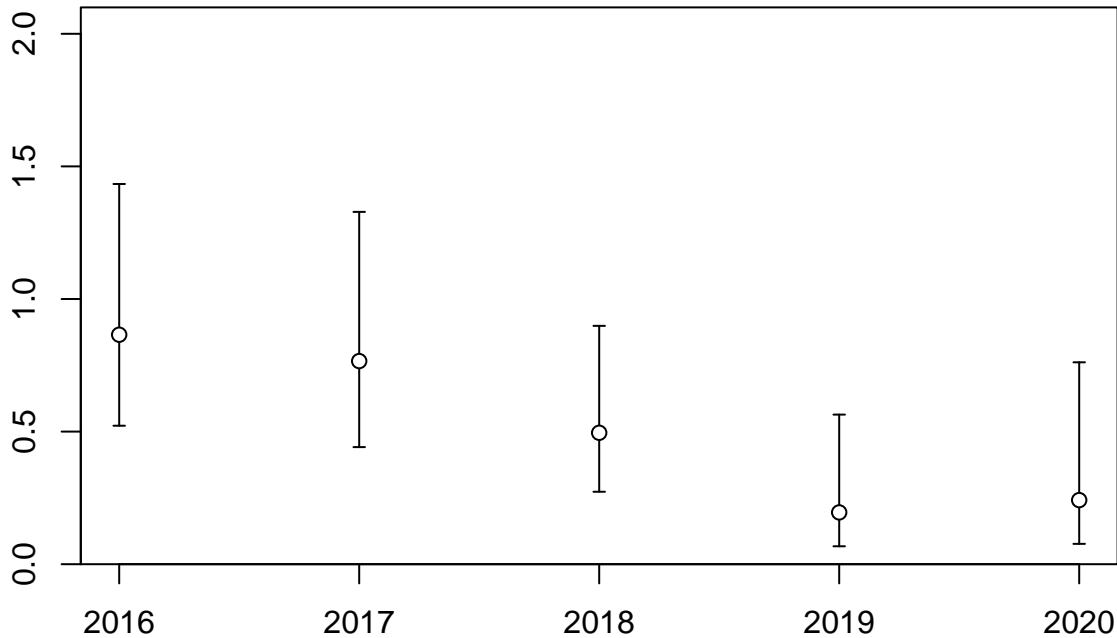


Fishing intensity: 1-SPR



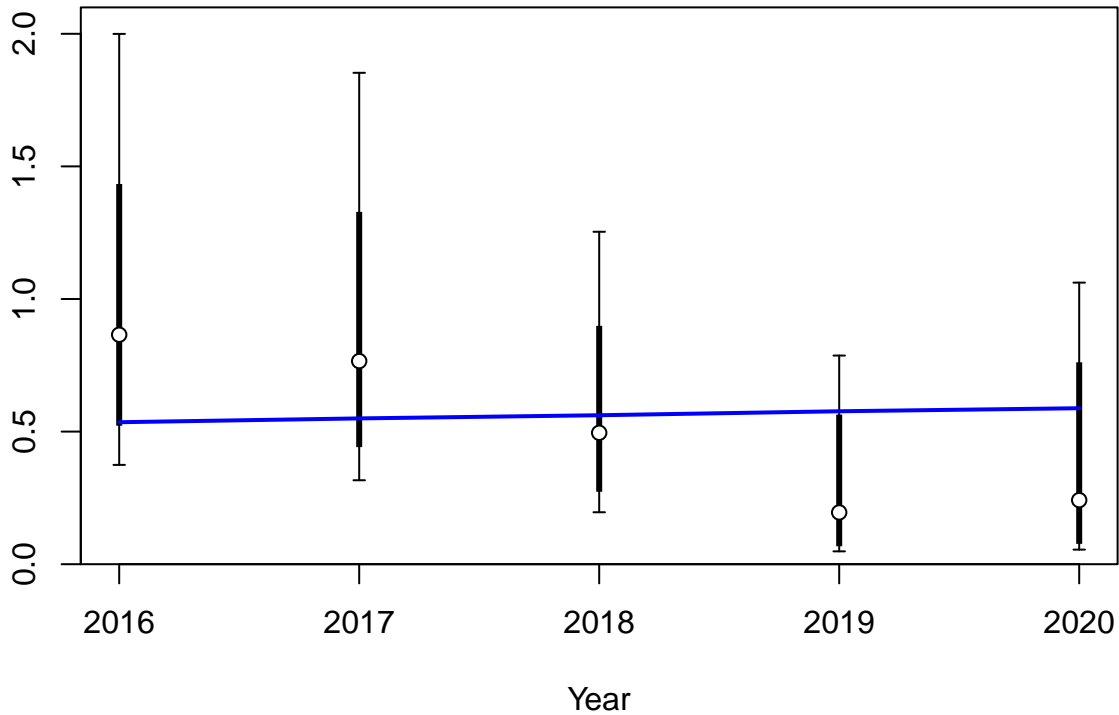


Index

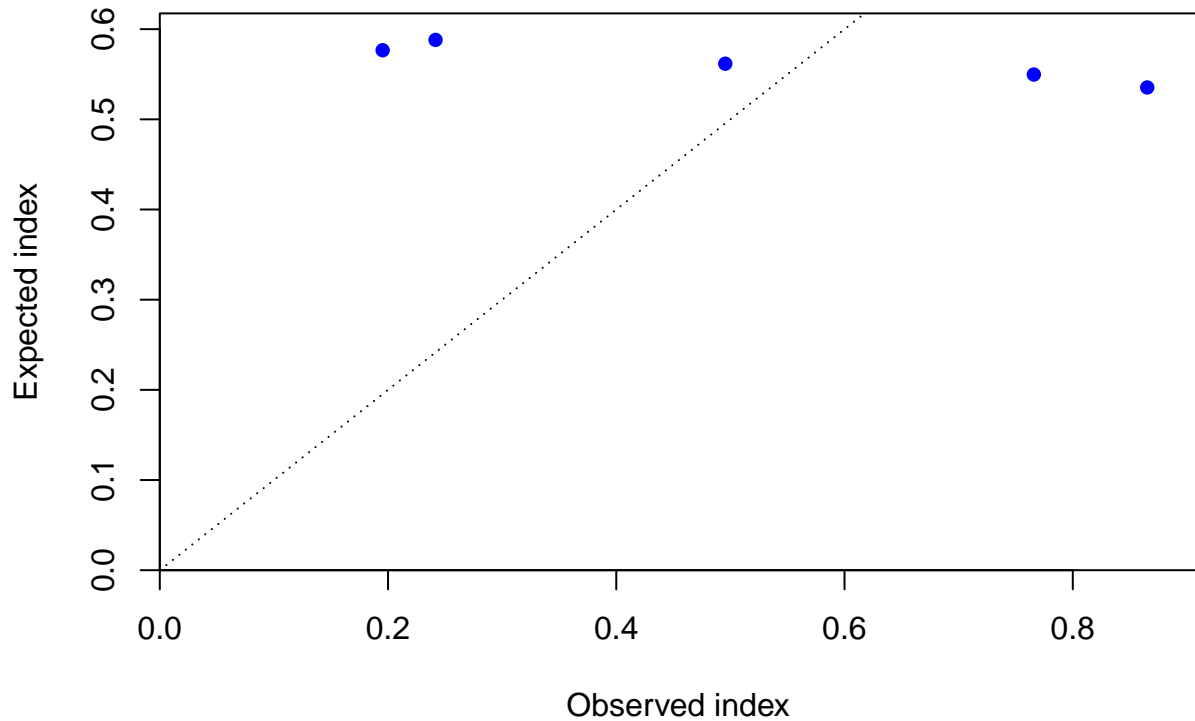


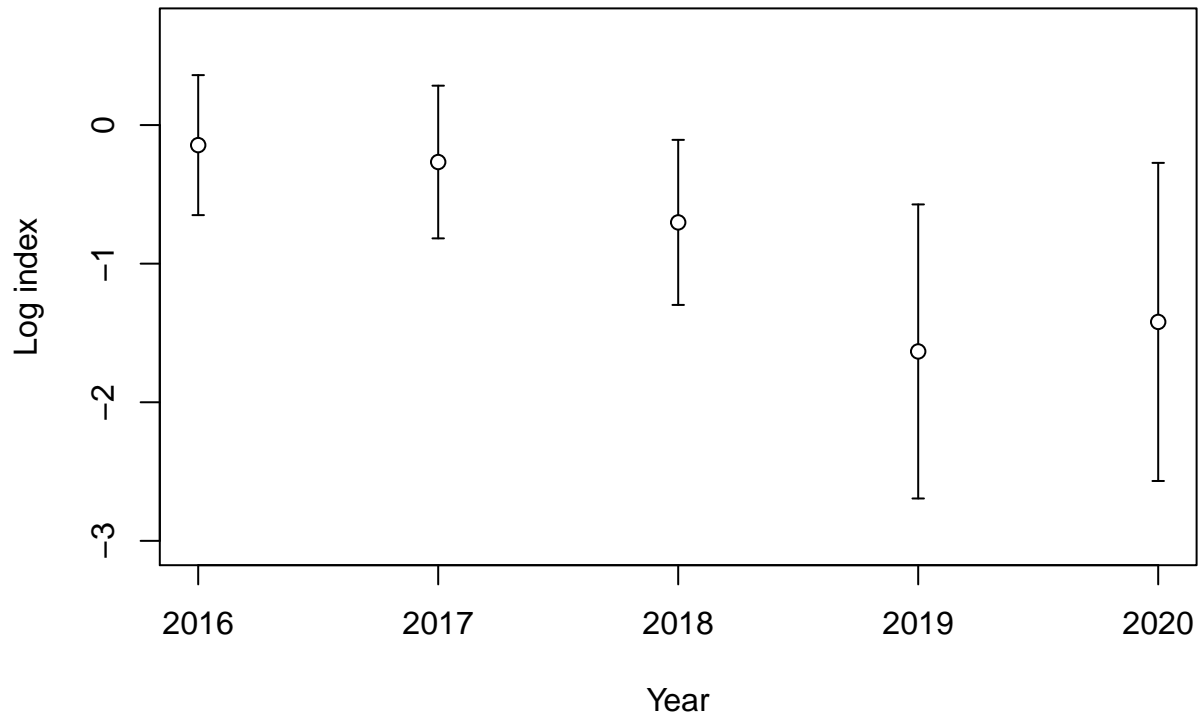
Year

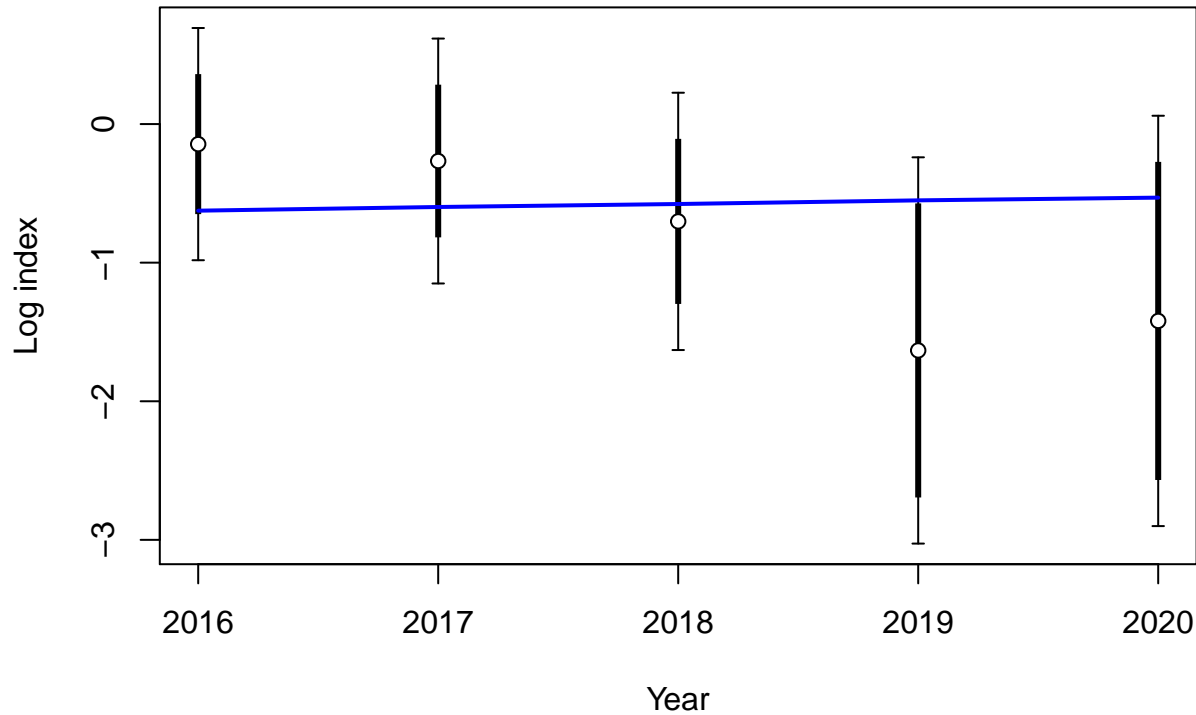
Index

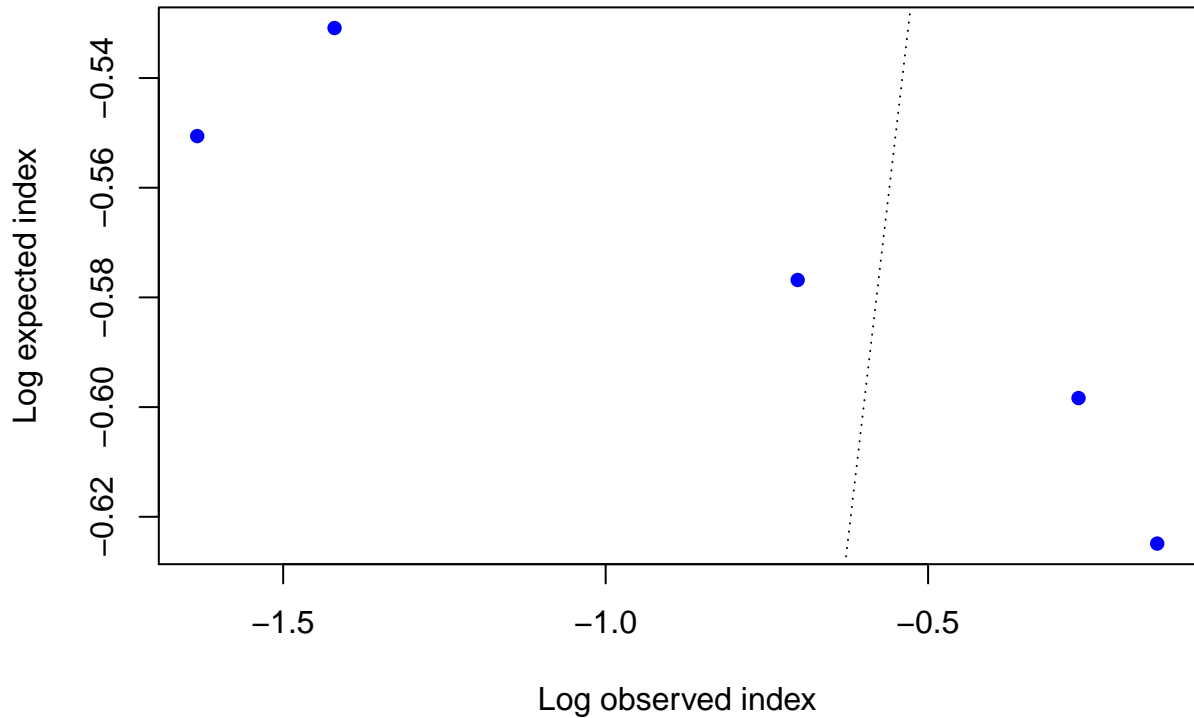




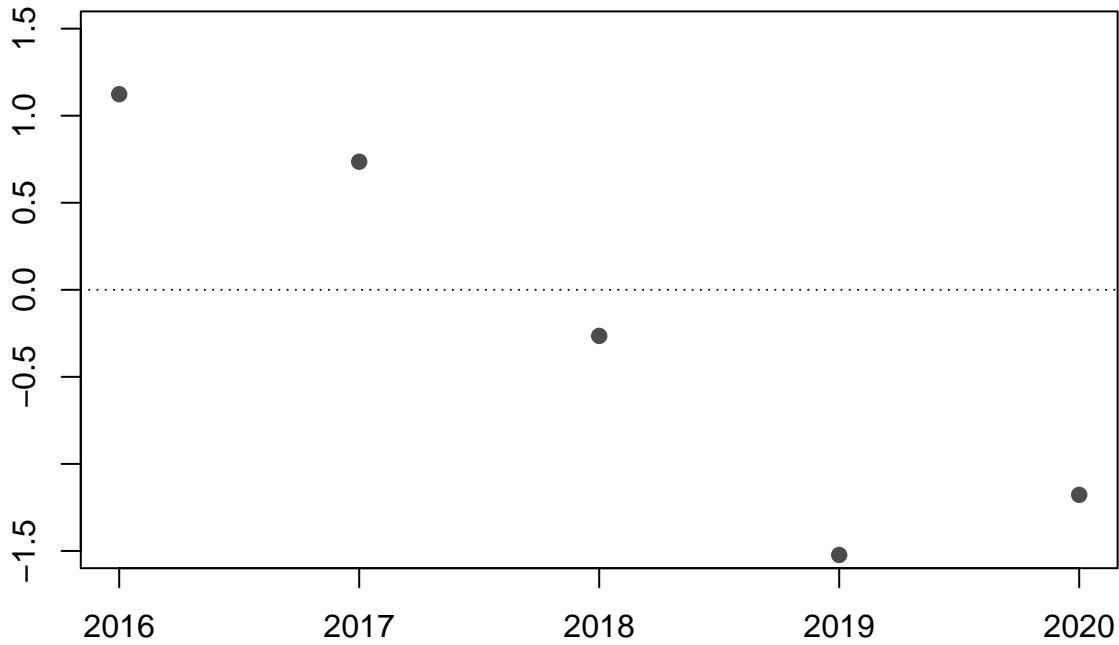






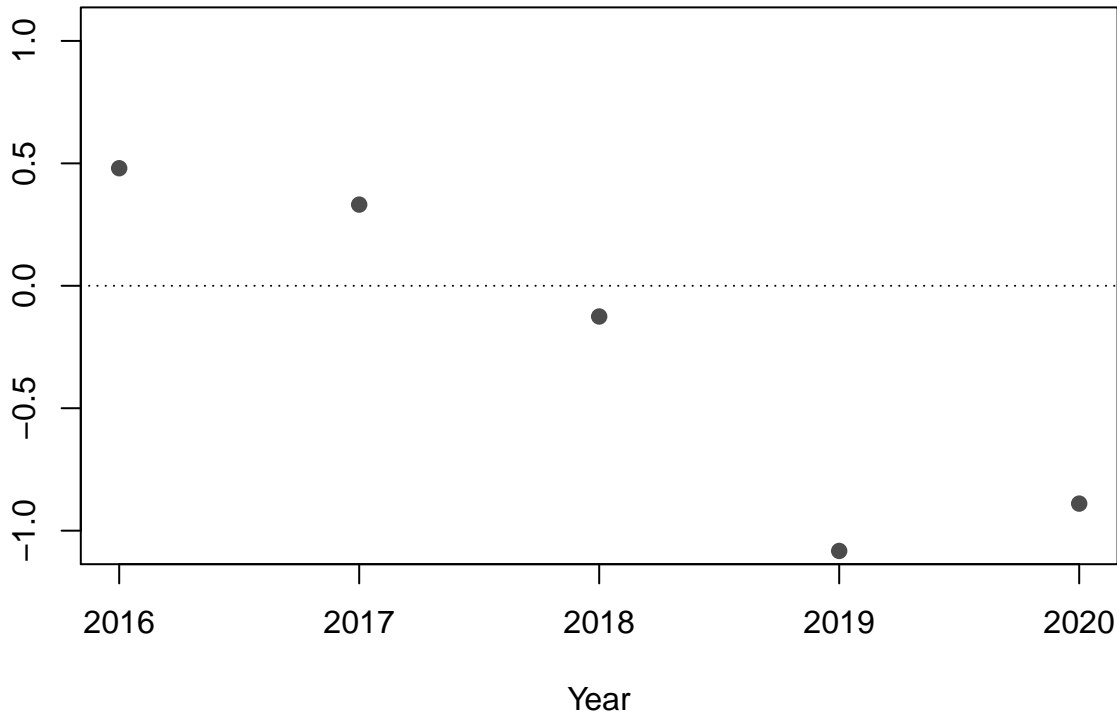


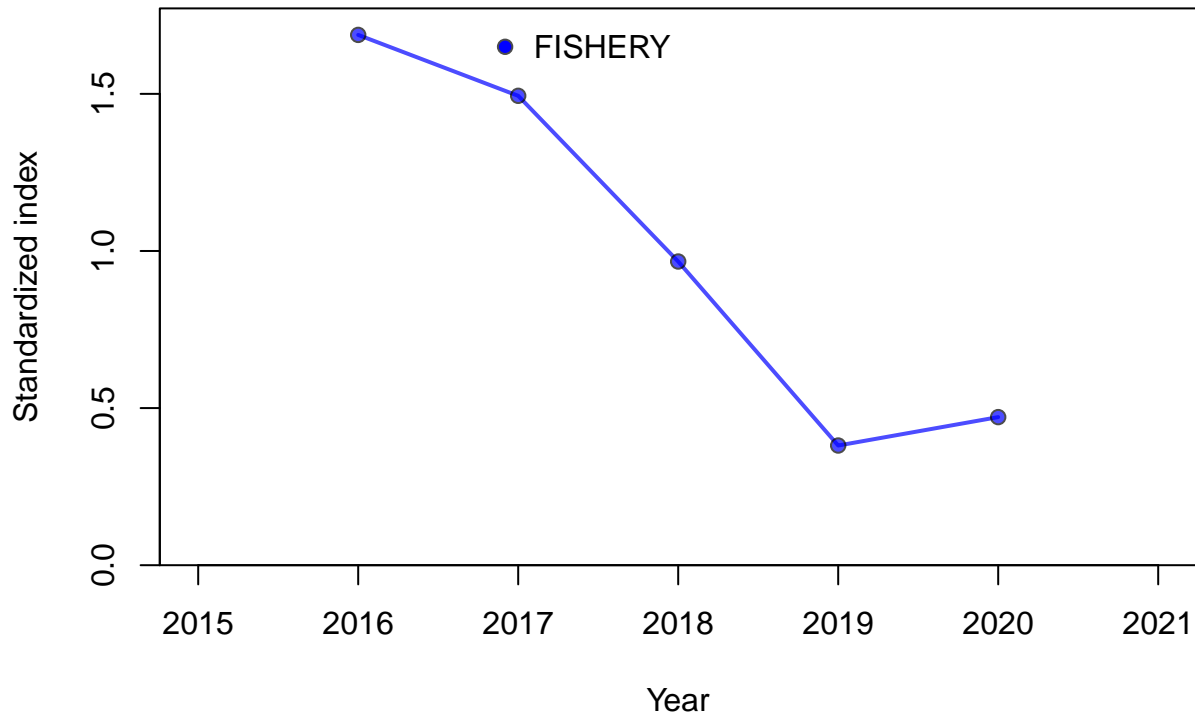
Residual

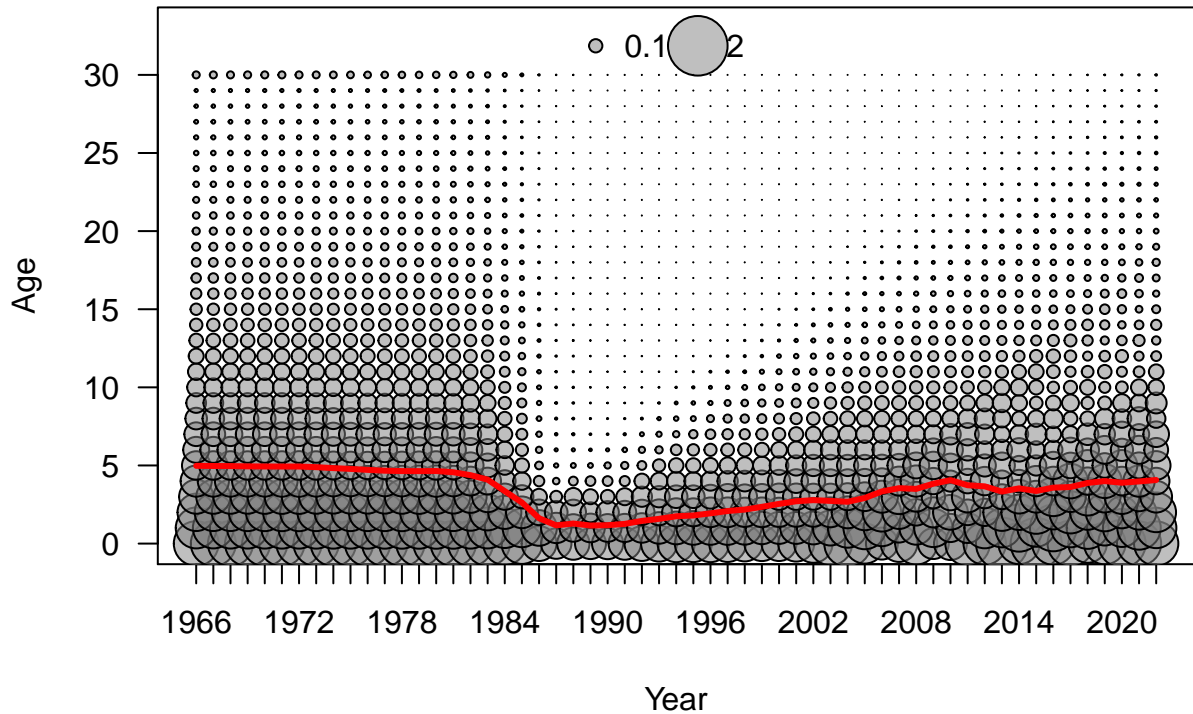


Year

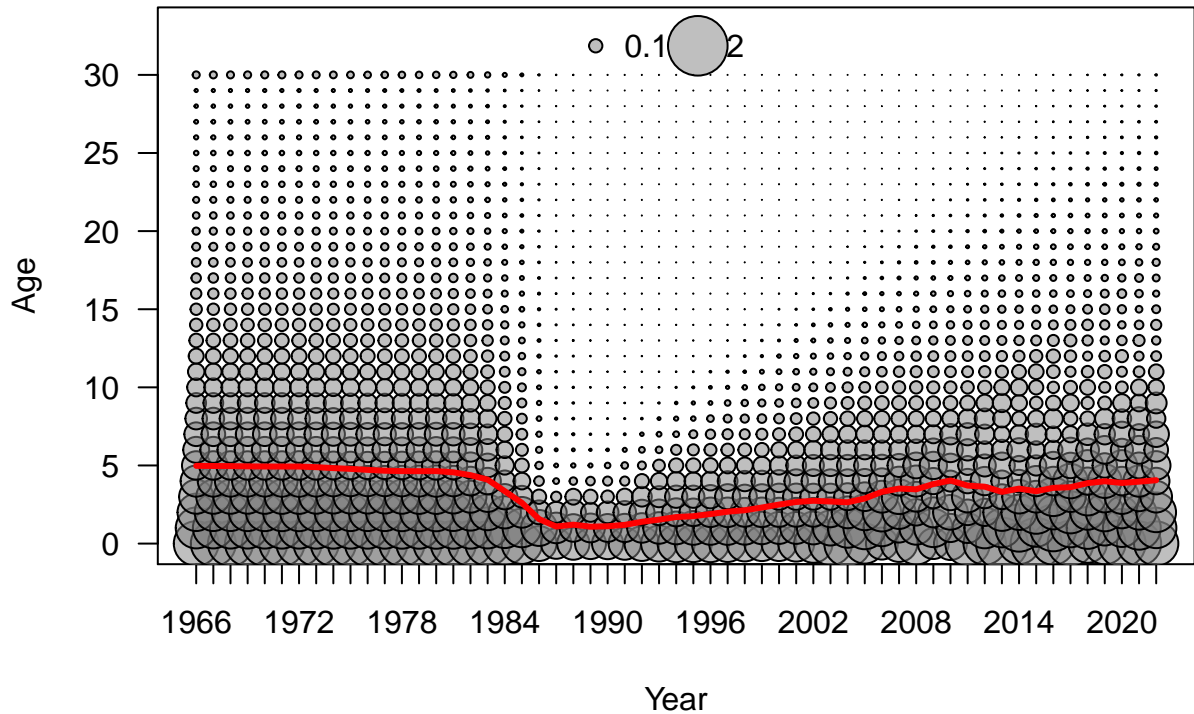
Deviation

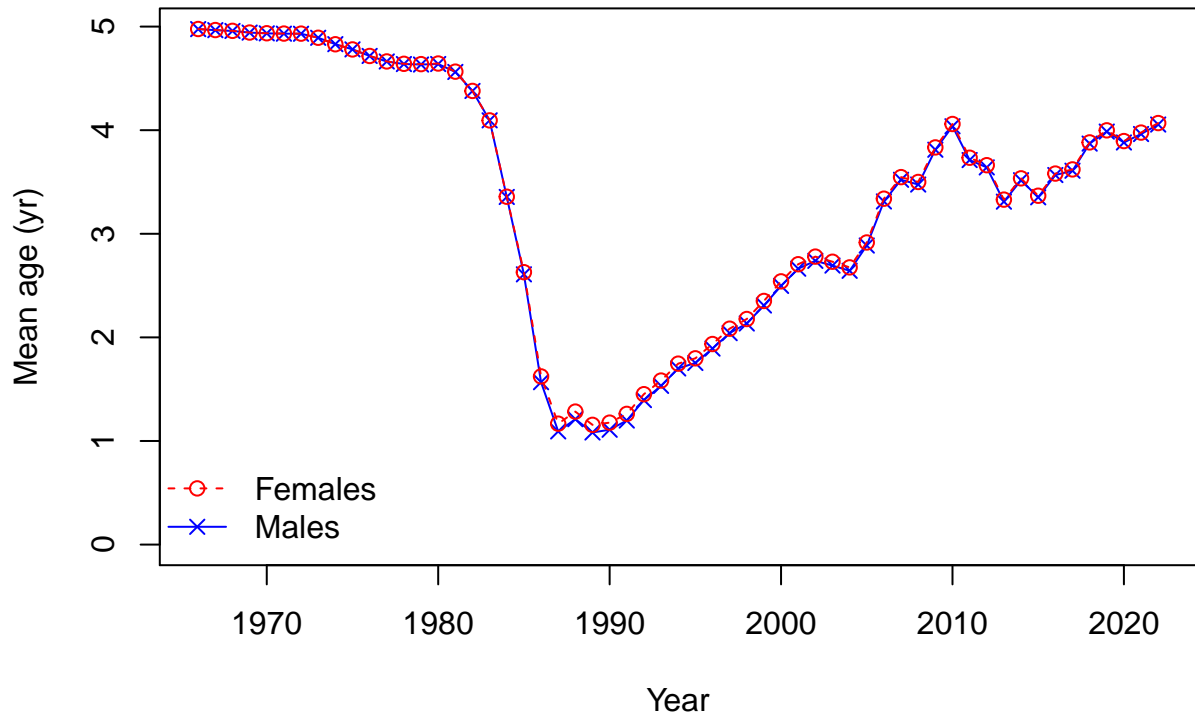


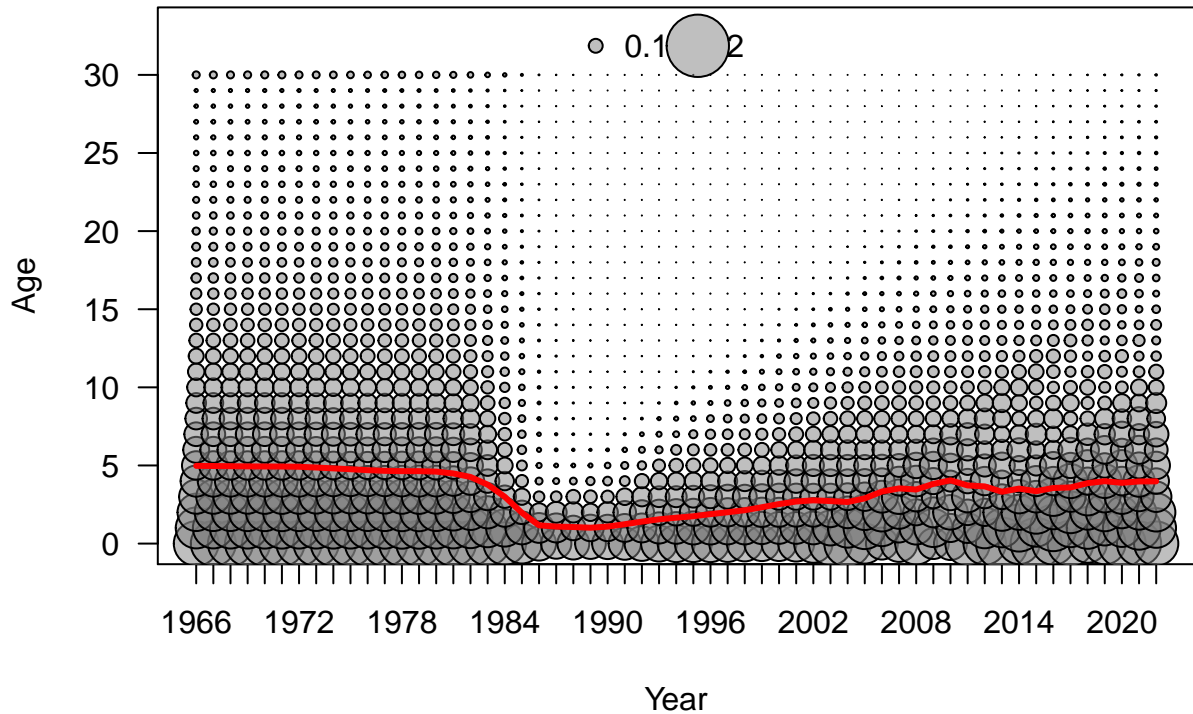


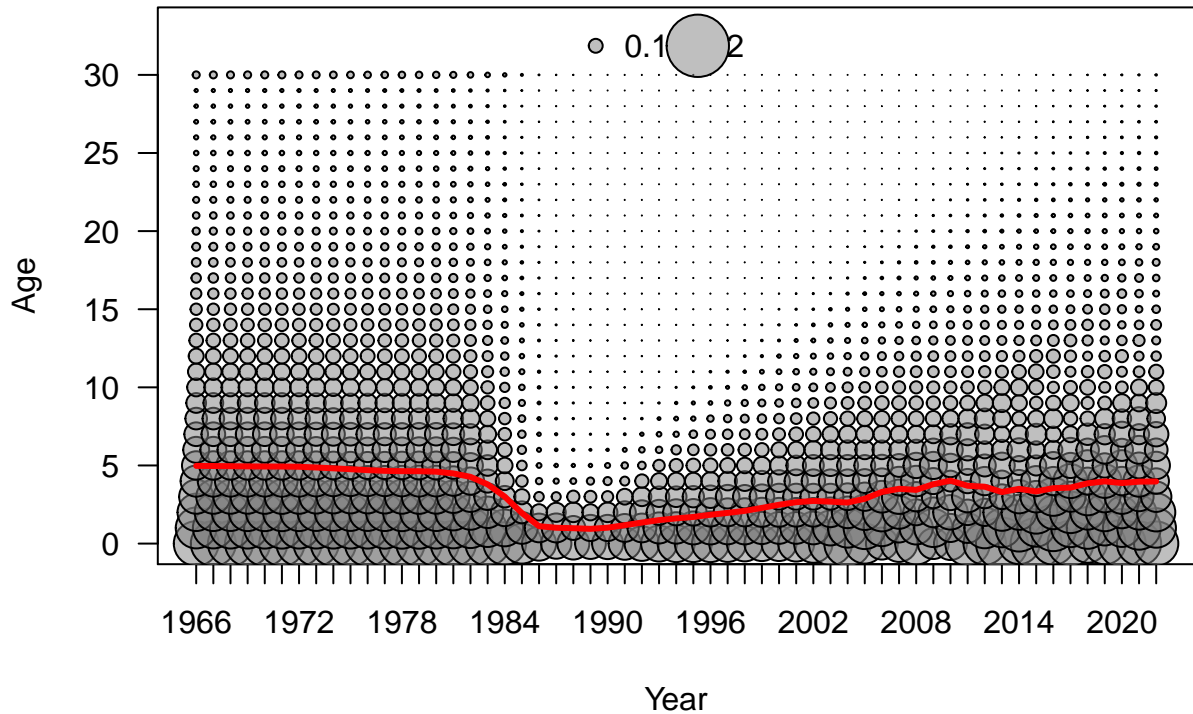


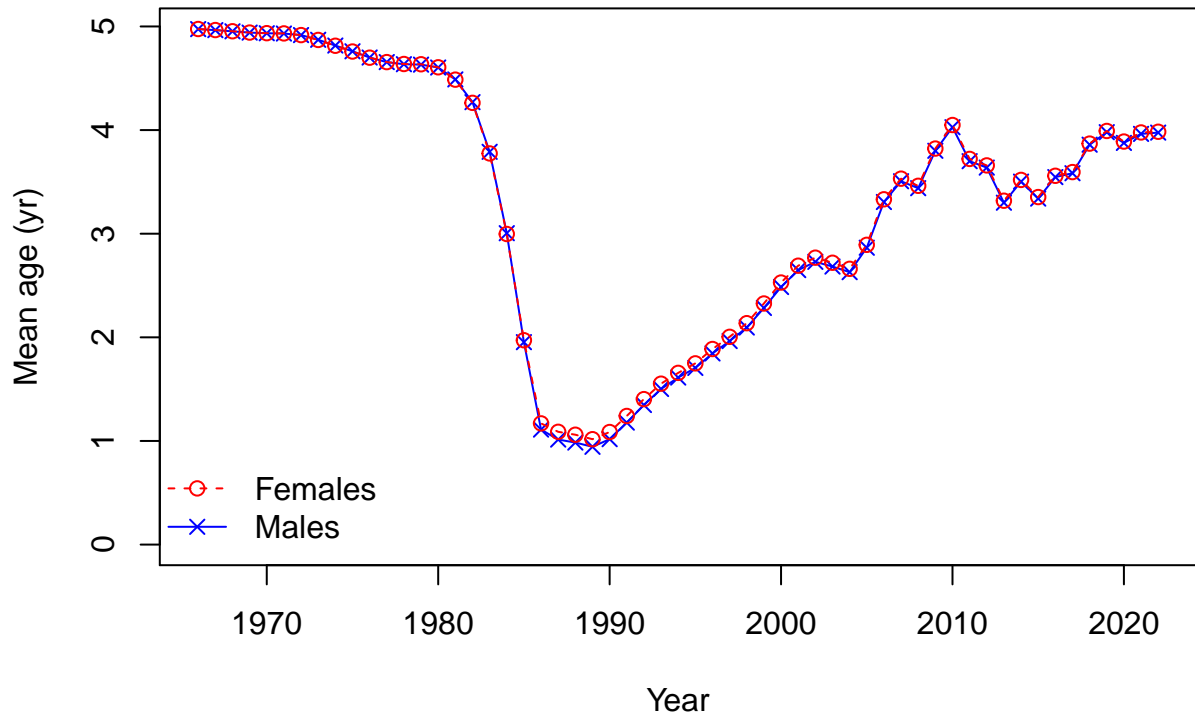


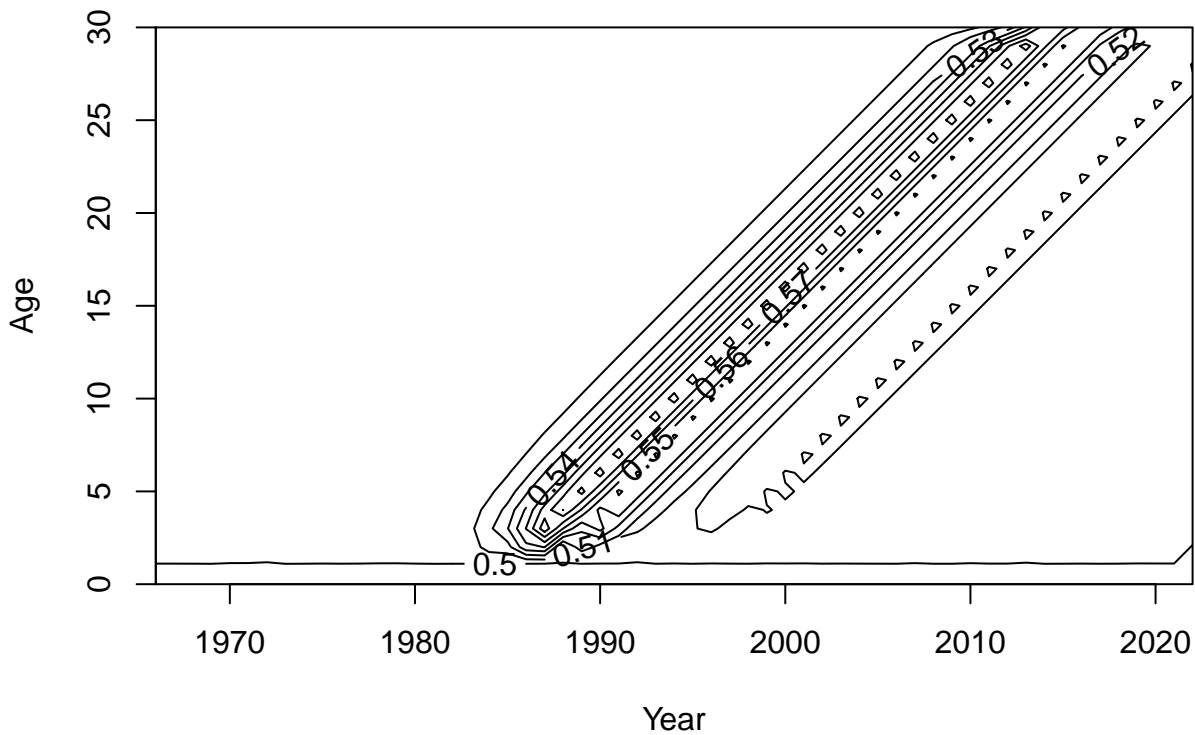


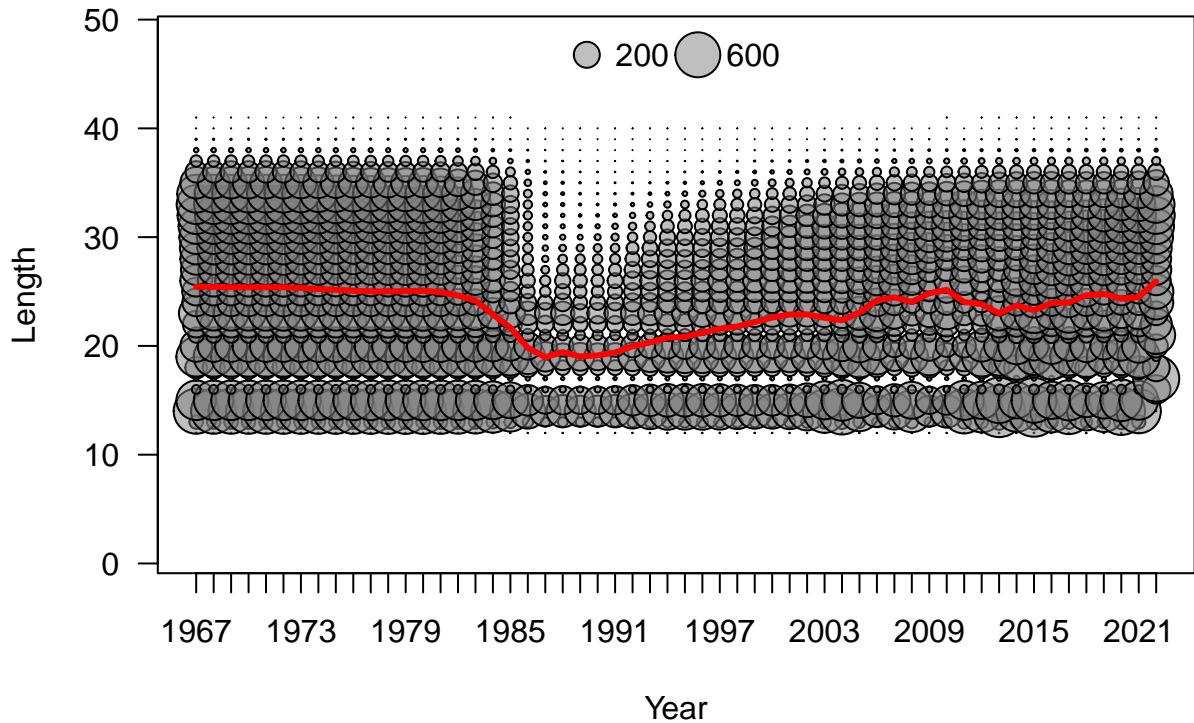


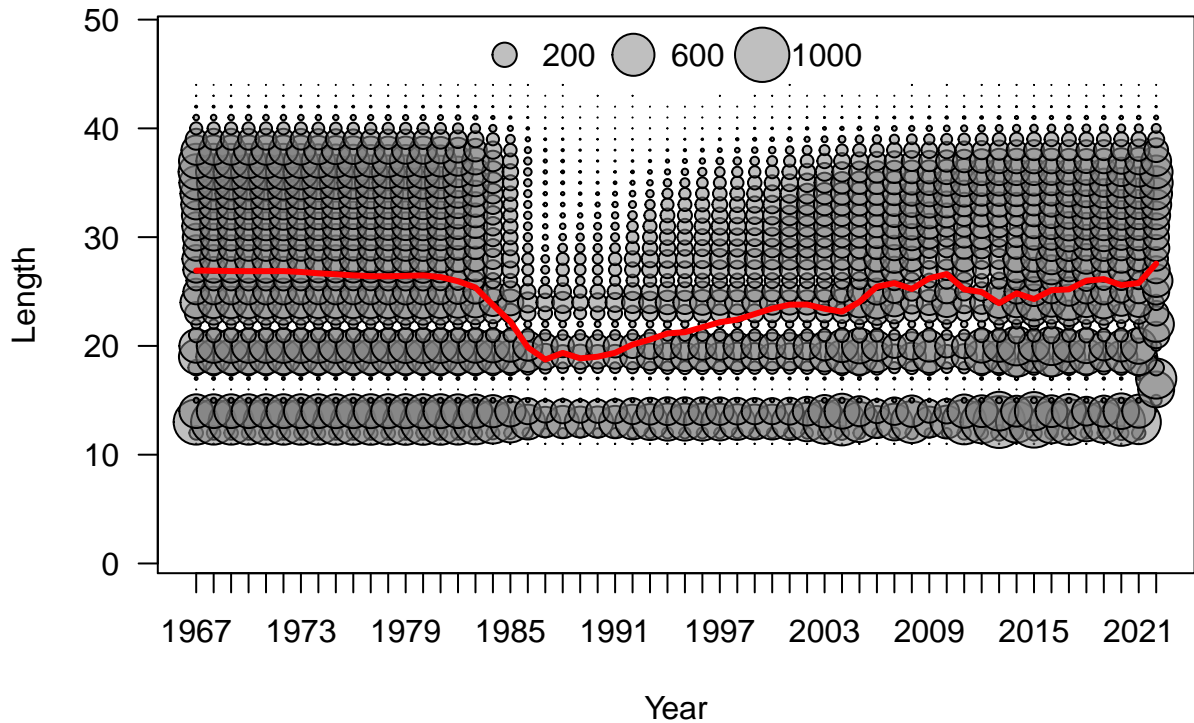




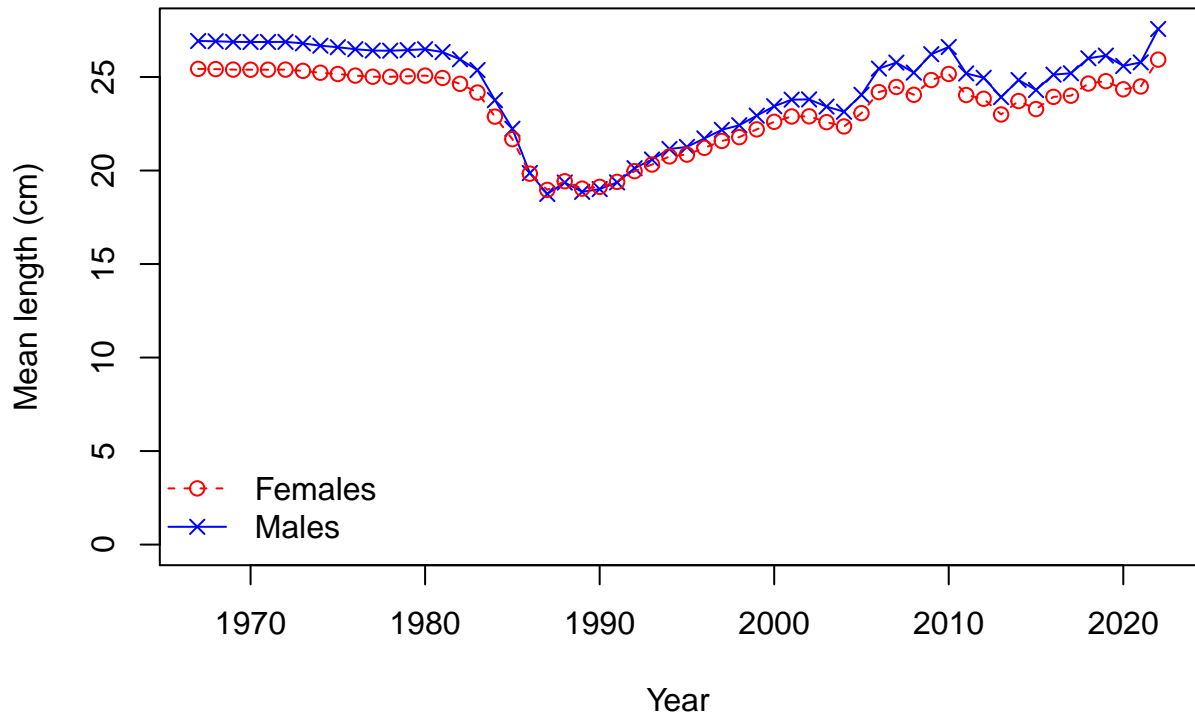


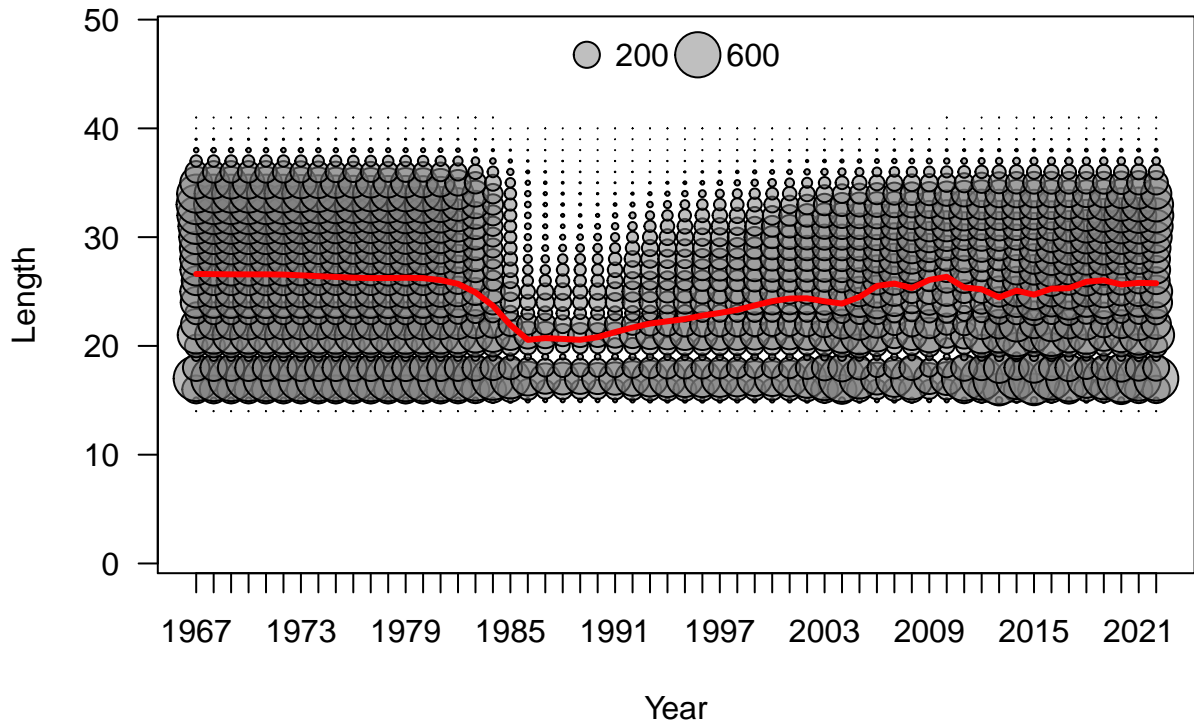


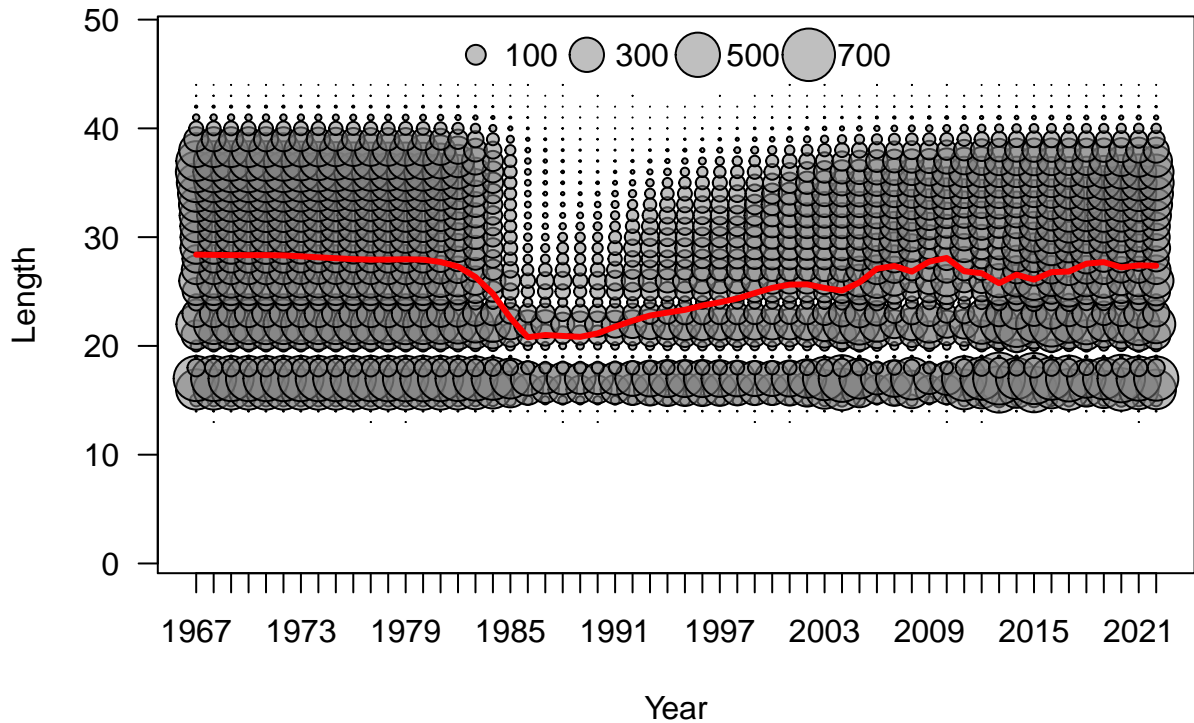


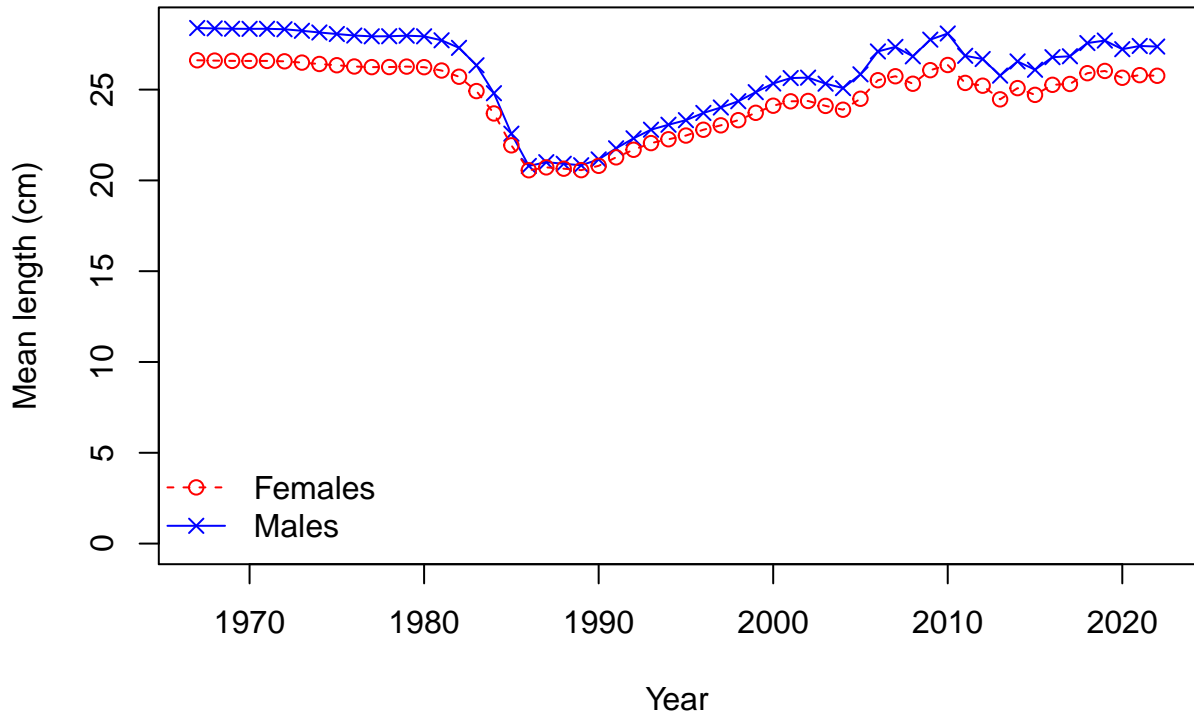




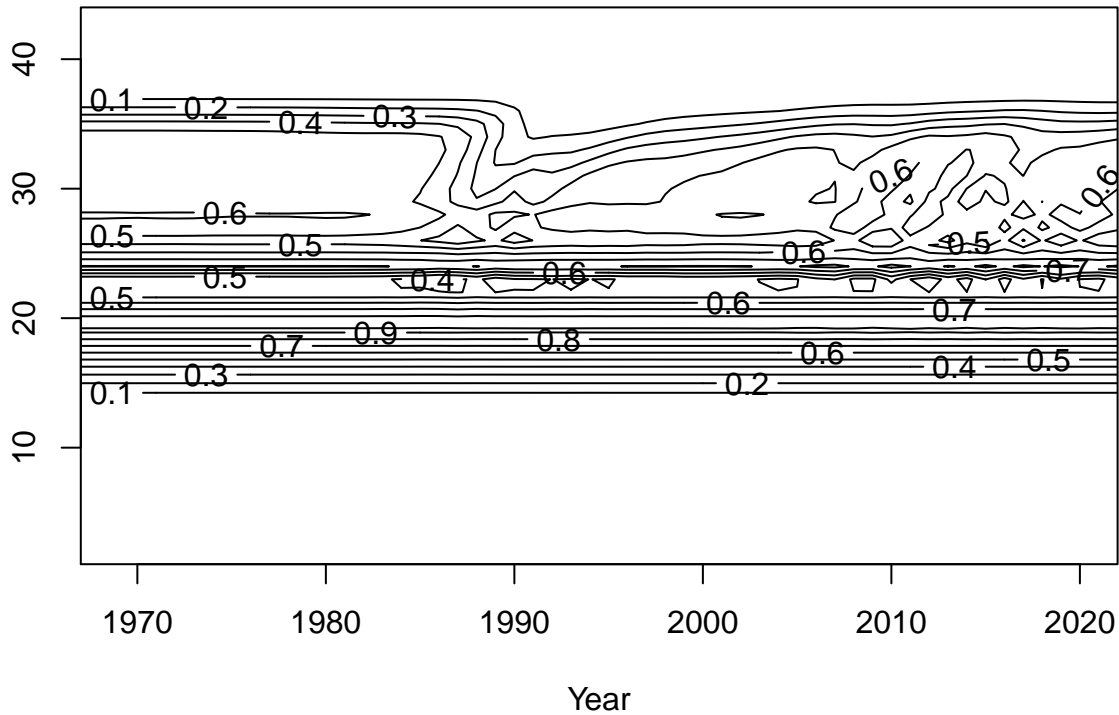


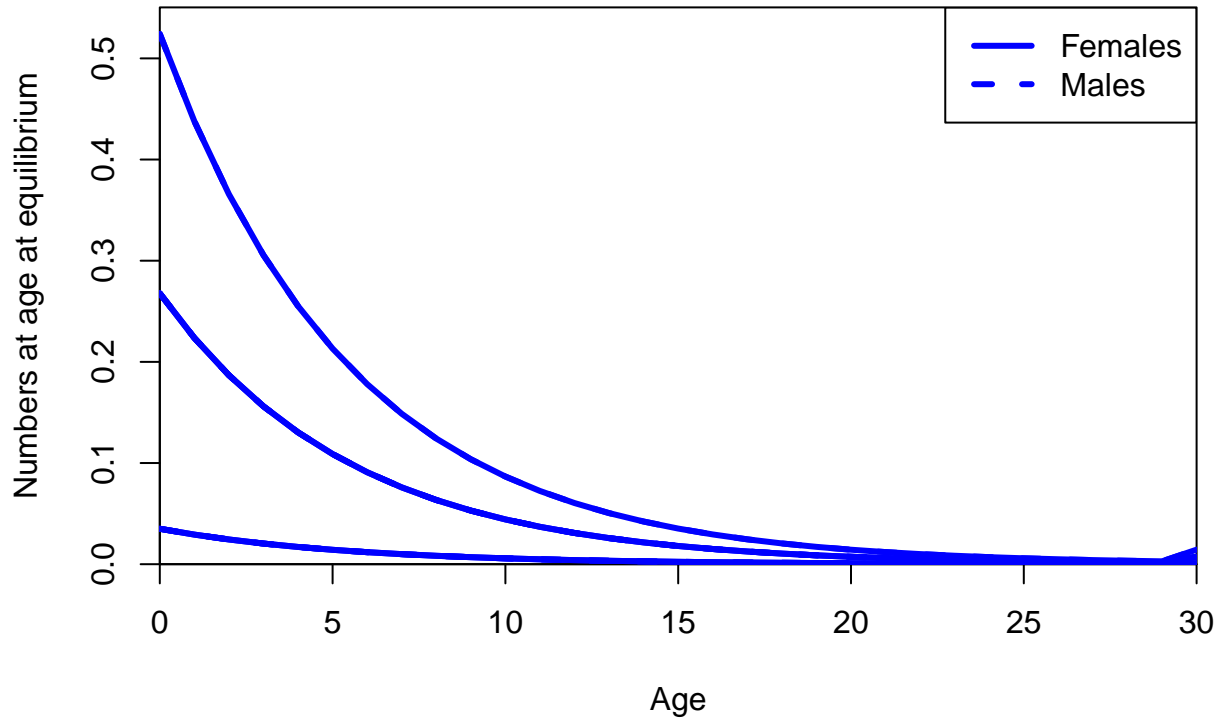






Length





# FISHERY

Sum of N adj.=308

Proportion

0.15  
0.10  
0.05  
0.00

15

20

25

30

35

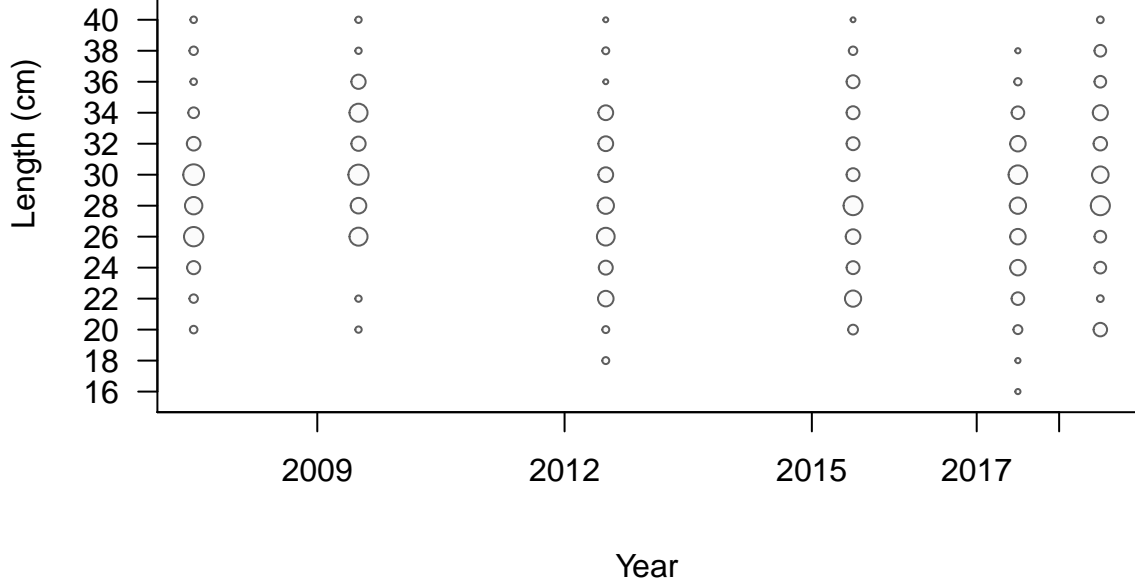
40

Length (cm)



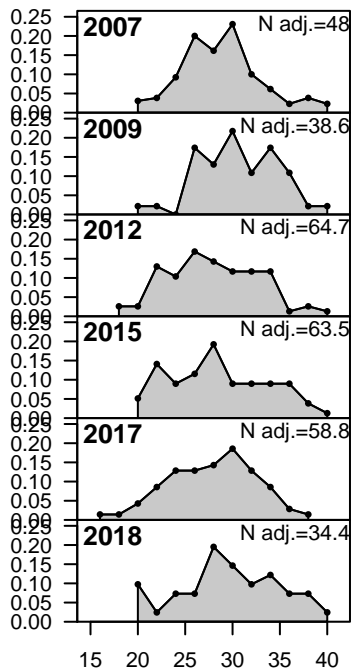
# FISHERY

◦ 0.01 ○ 0.15 ○ 0.25

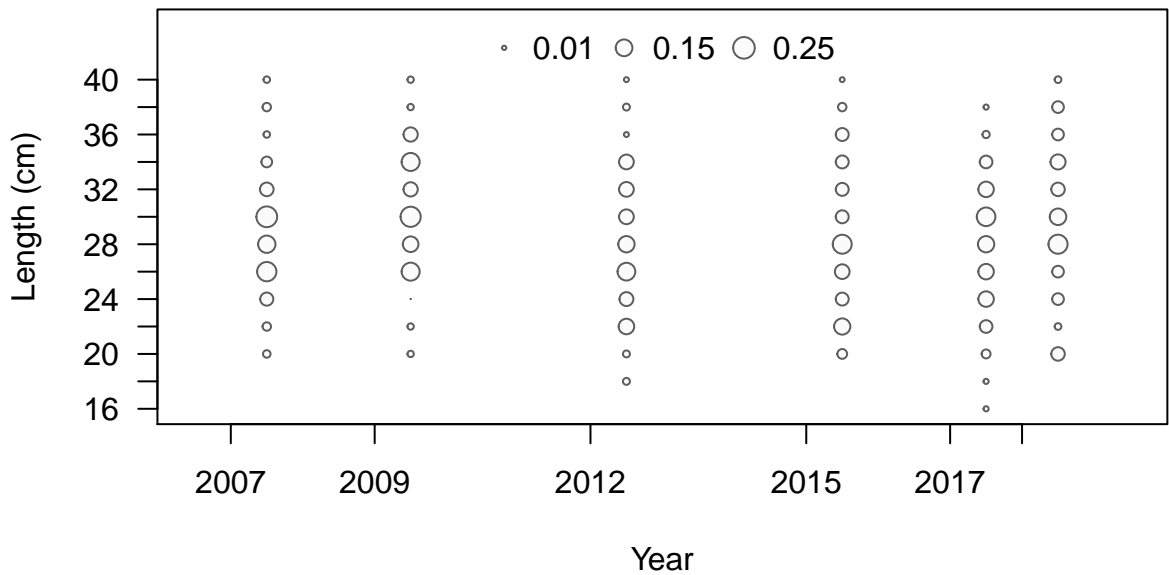




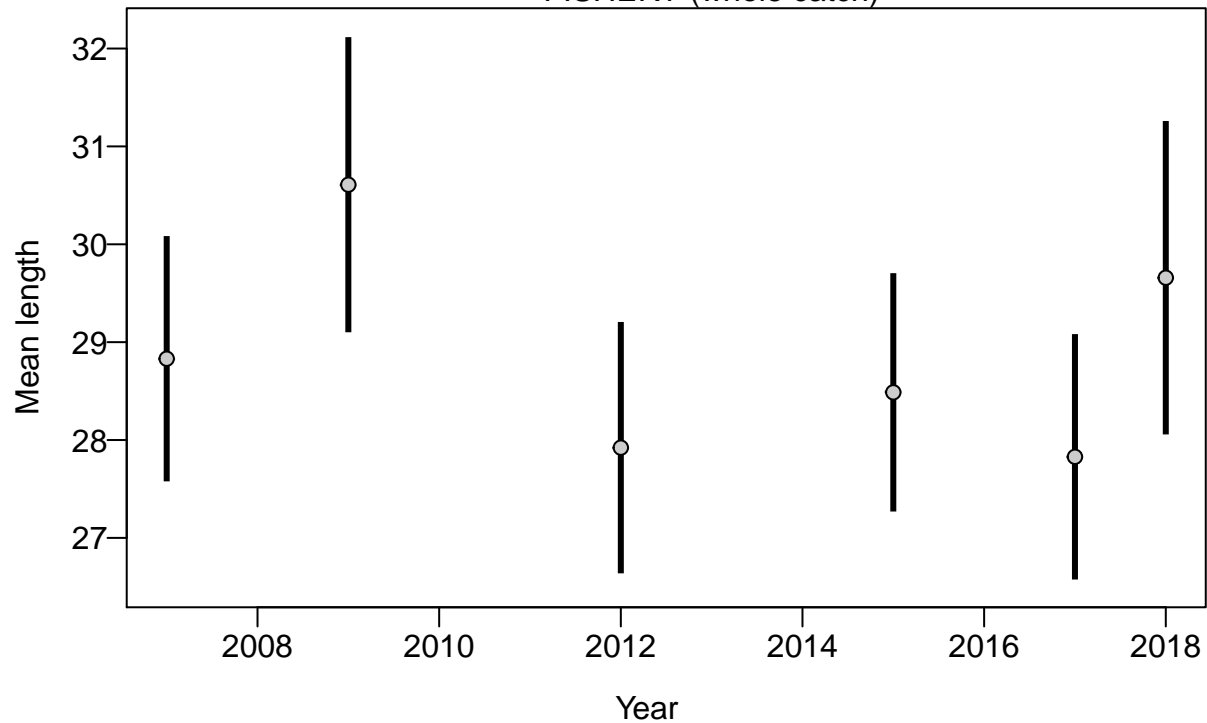
Proportion



Length (cm)

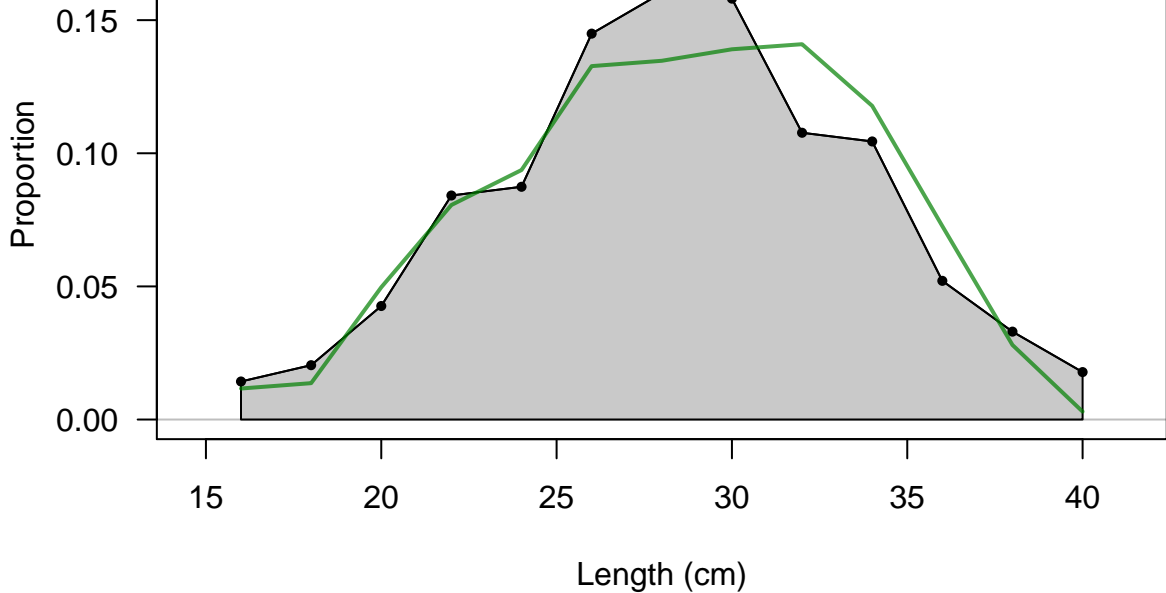


FISHERY (whole catch)



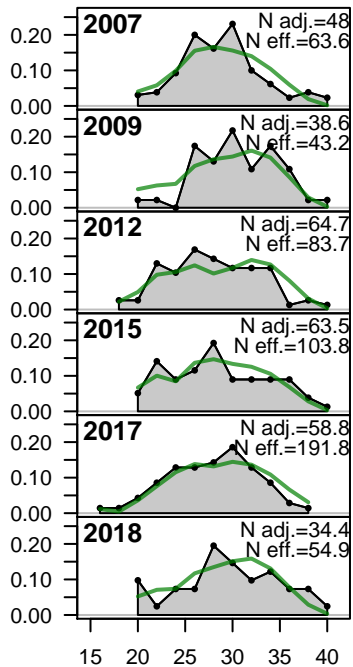
# FISHERY

Sum of N adj.=308  
Sum of N eff.=541

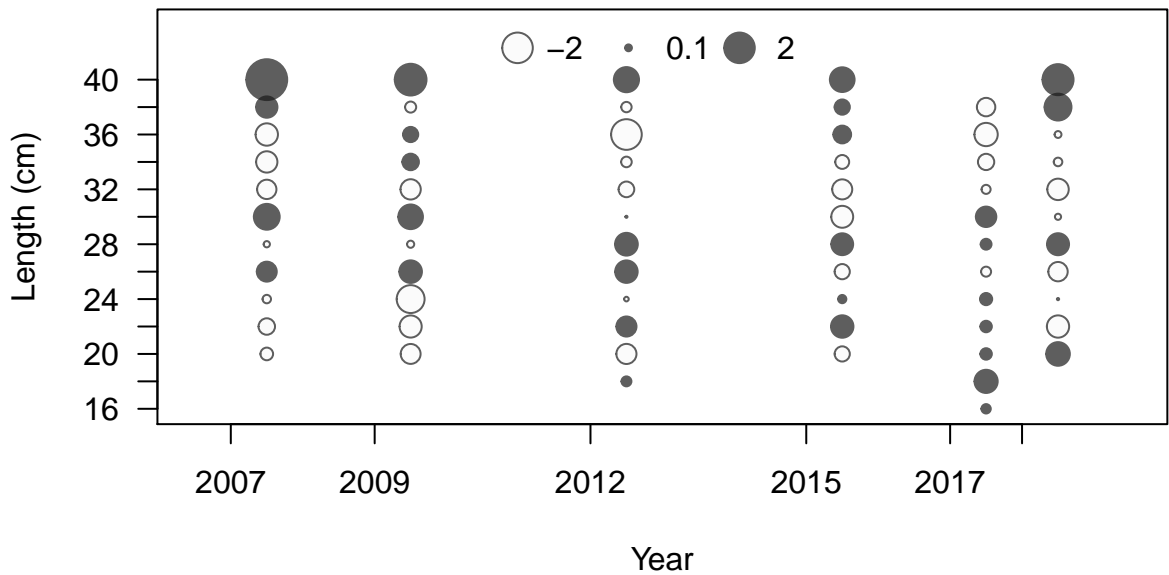




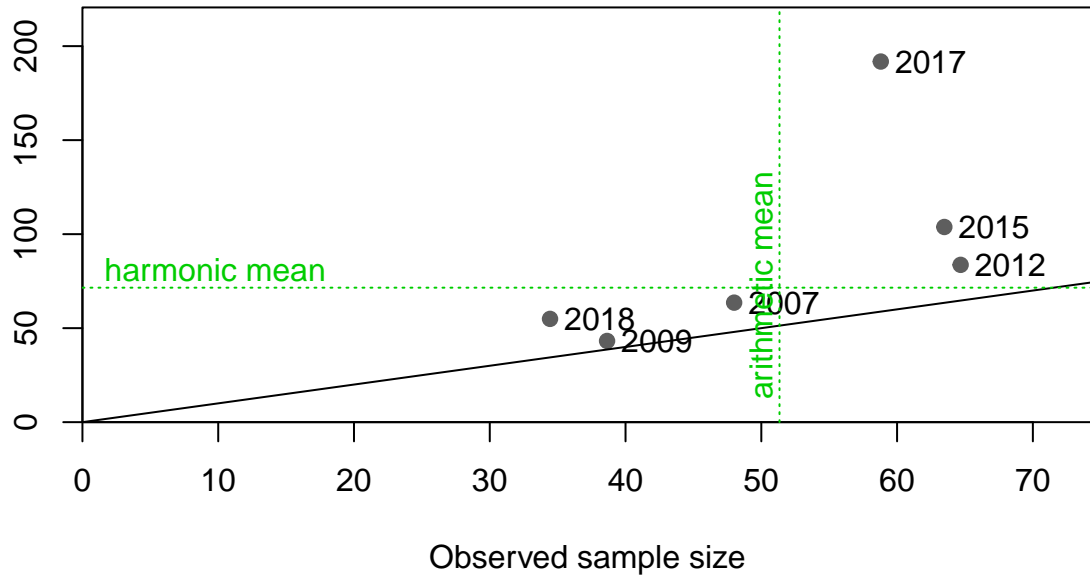
Proportion



Length (cm)

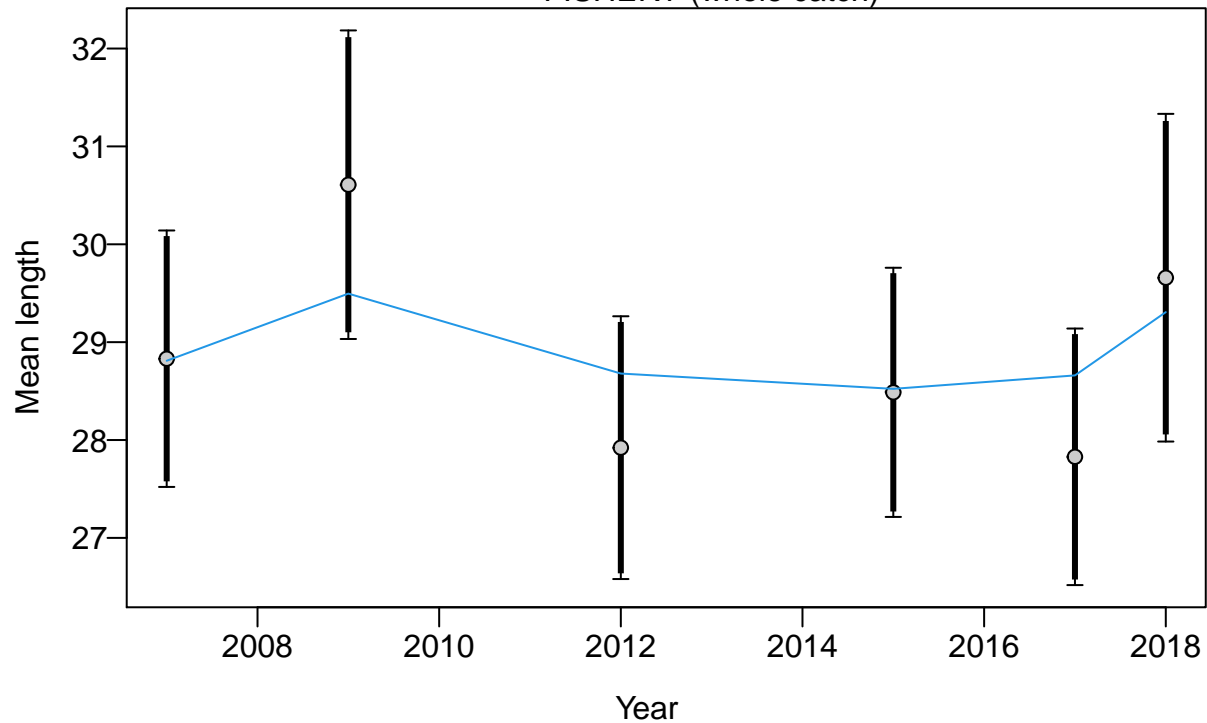


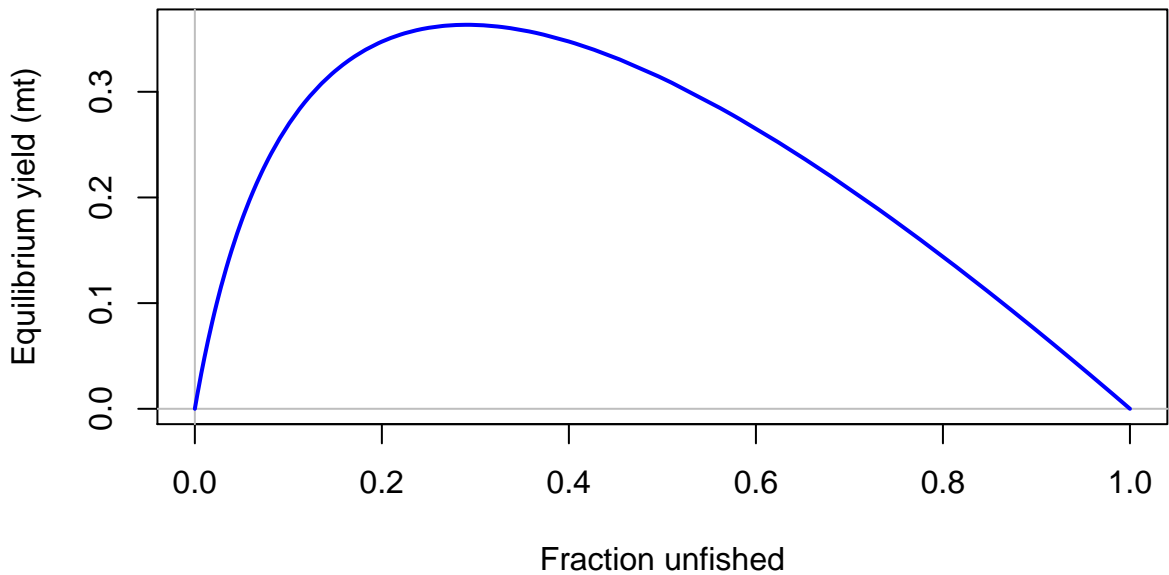
Effective sample size

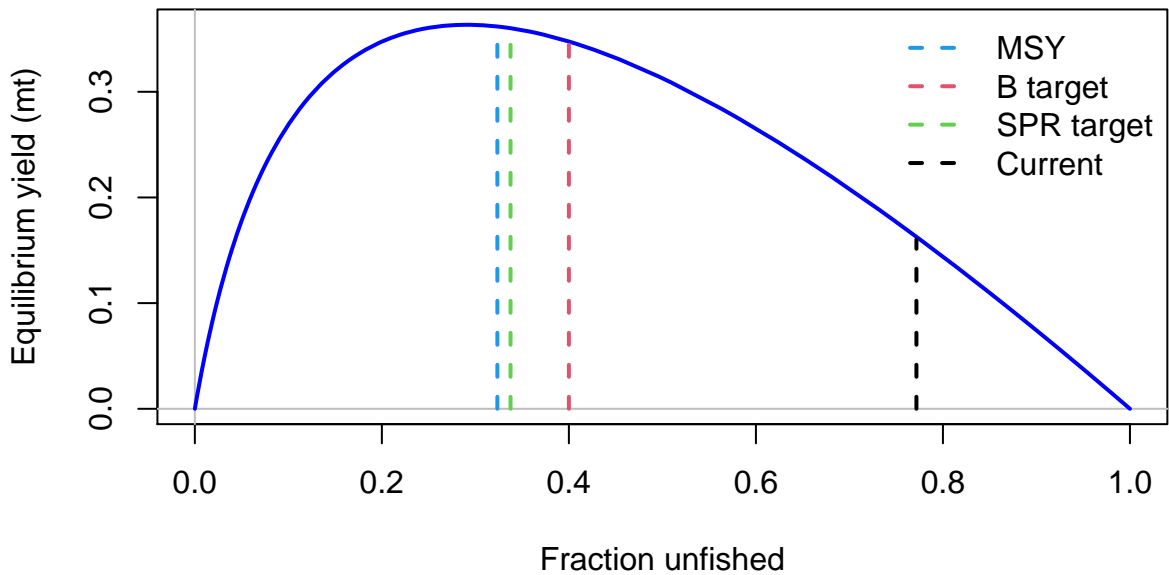




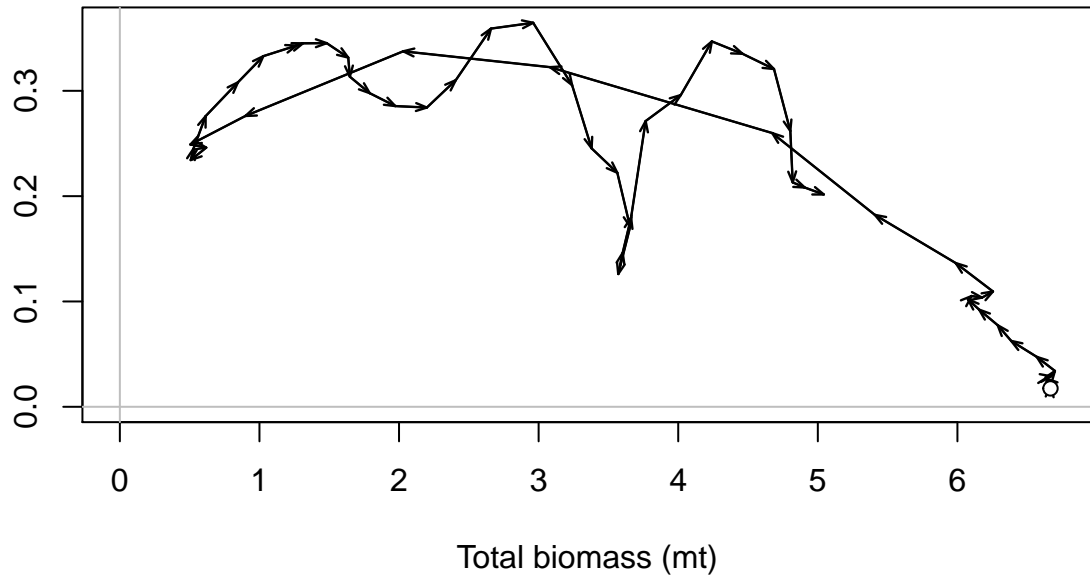
## FISHERY (whole catch)

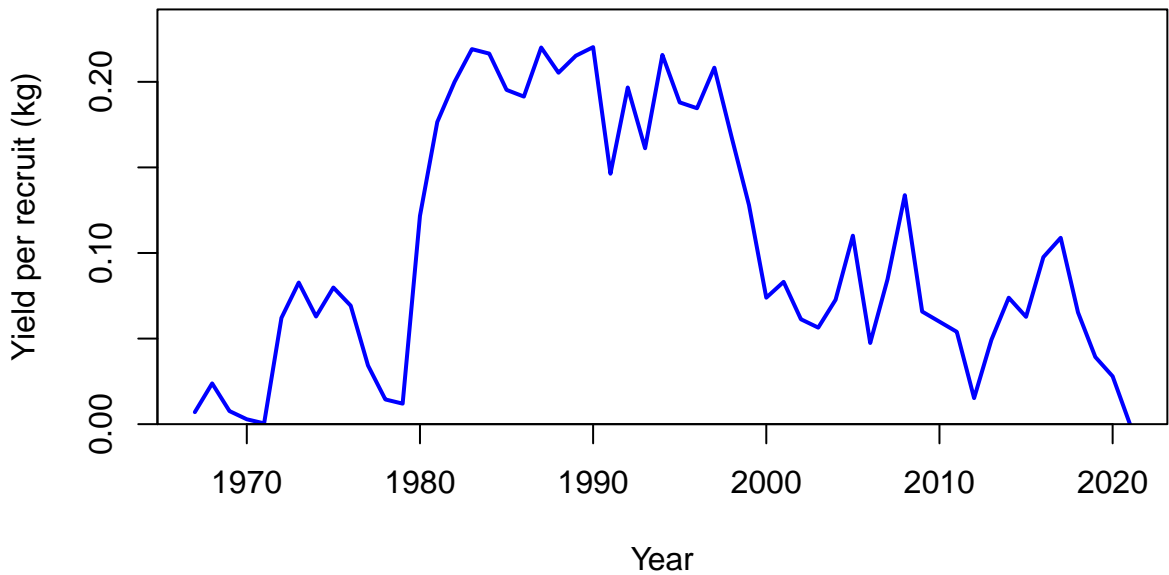


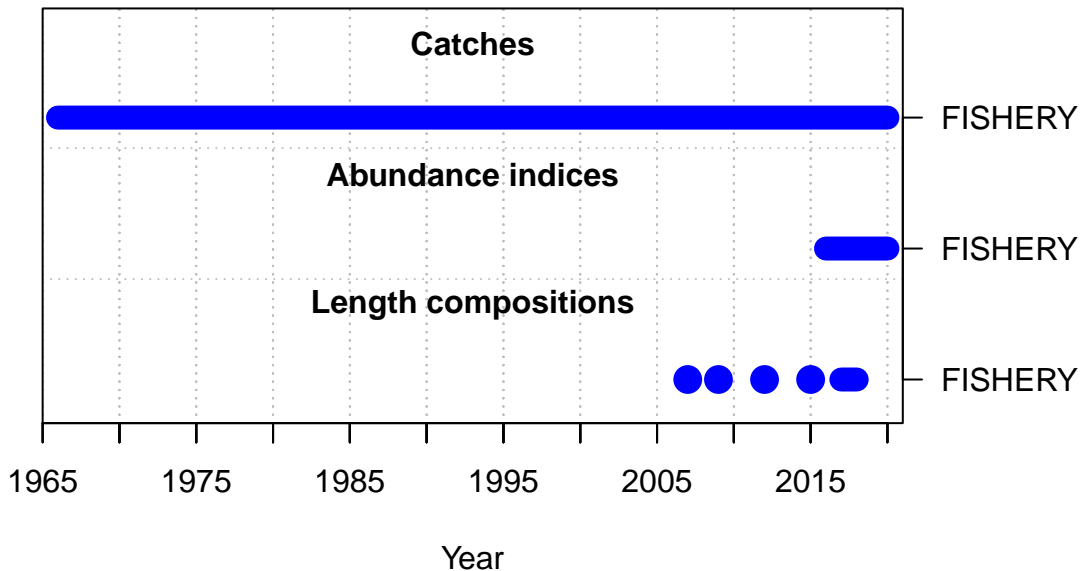


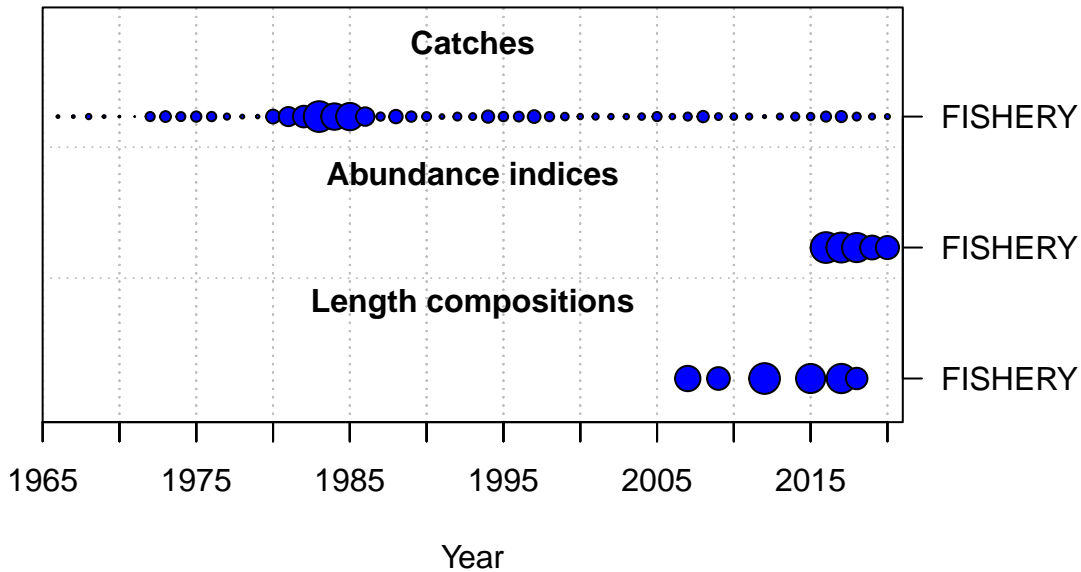


Surplus production (mt)

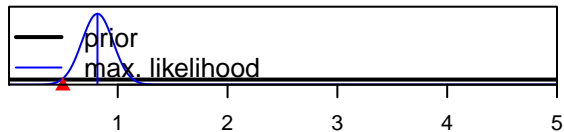




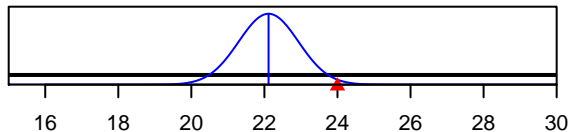




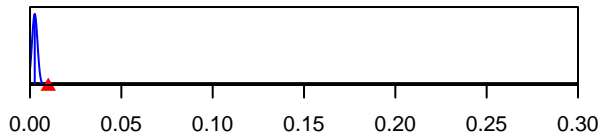
SR\_LN(R0)



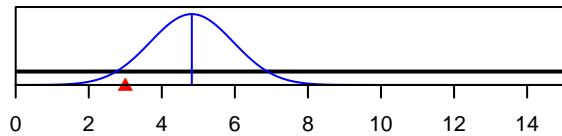
Size\_inflection\_FISHERY(1)



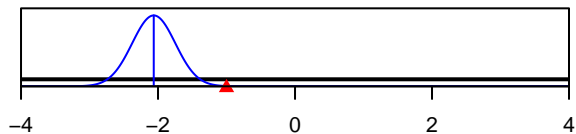
InitF\_seas\_1\_flt\_1FISHERY



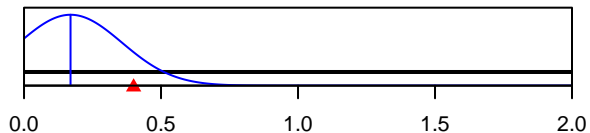
Size\_95%width\_FISHERY(1)



LnQ\_base\_FISHERY(1)



Q\_extraSD\_FISHERY(1)



Parameter value