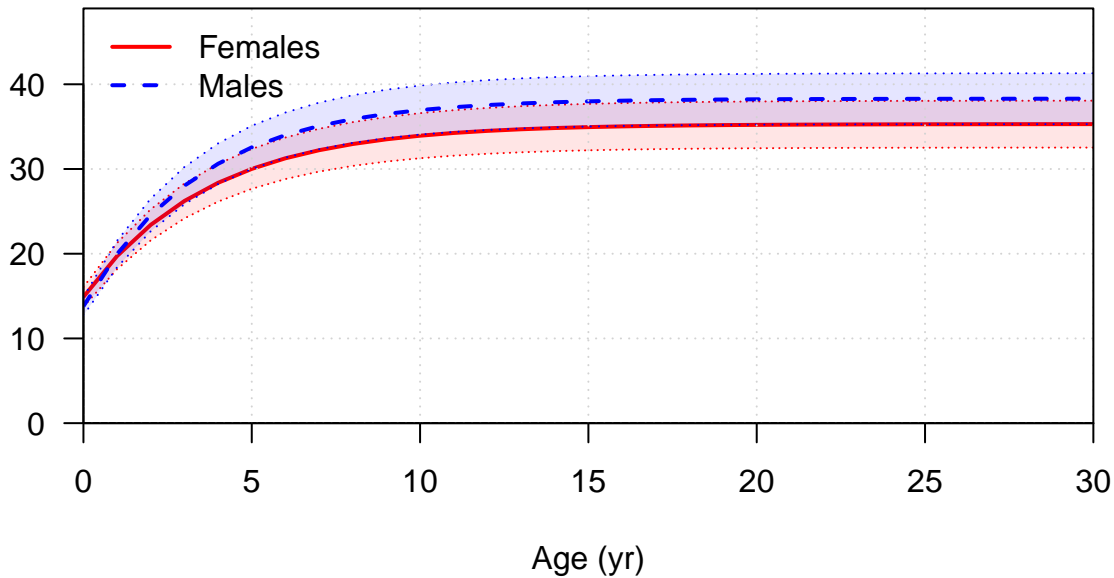
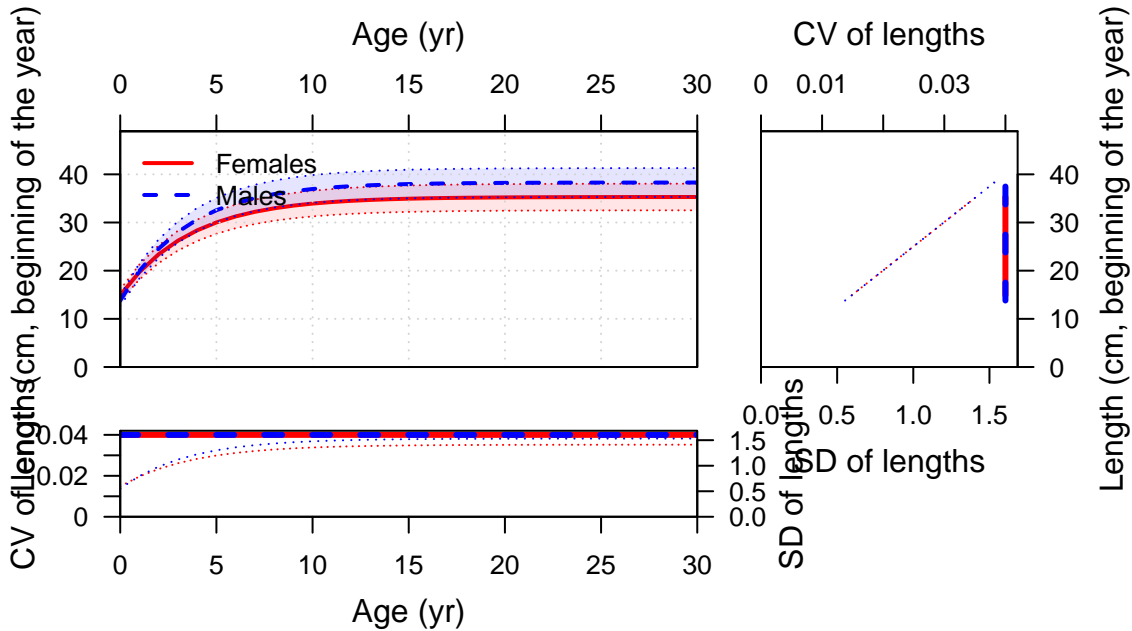
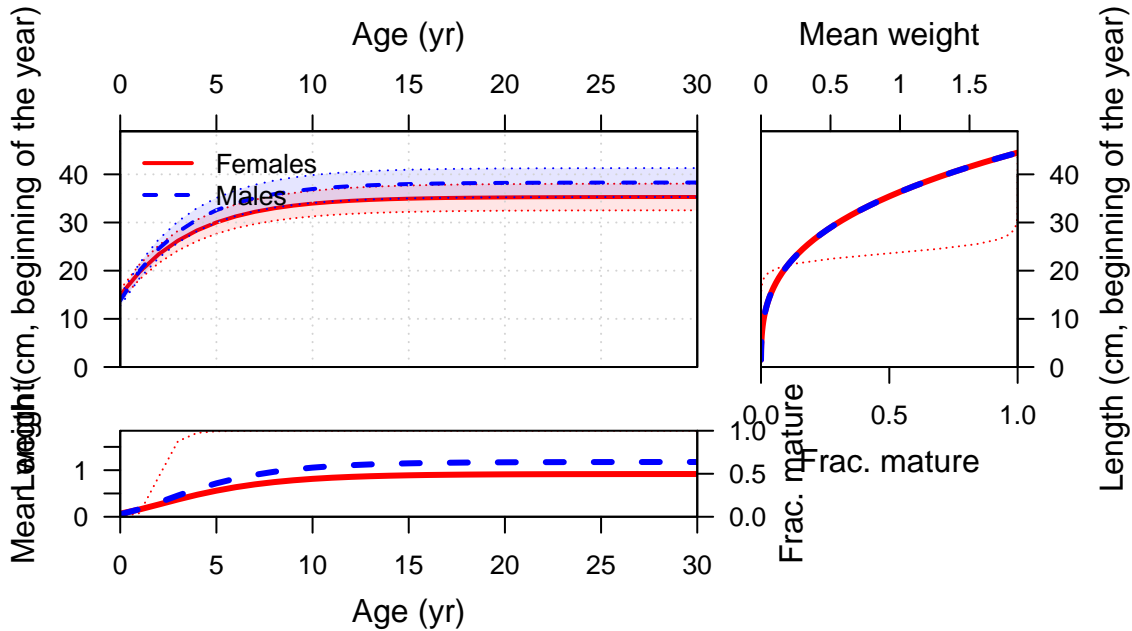


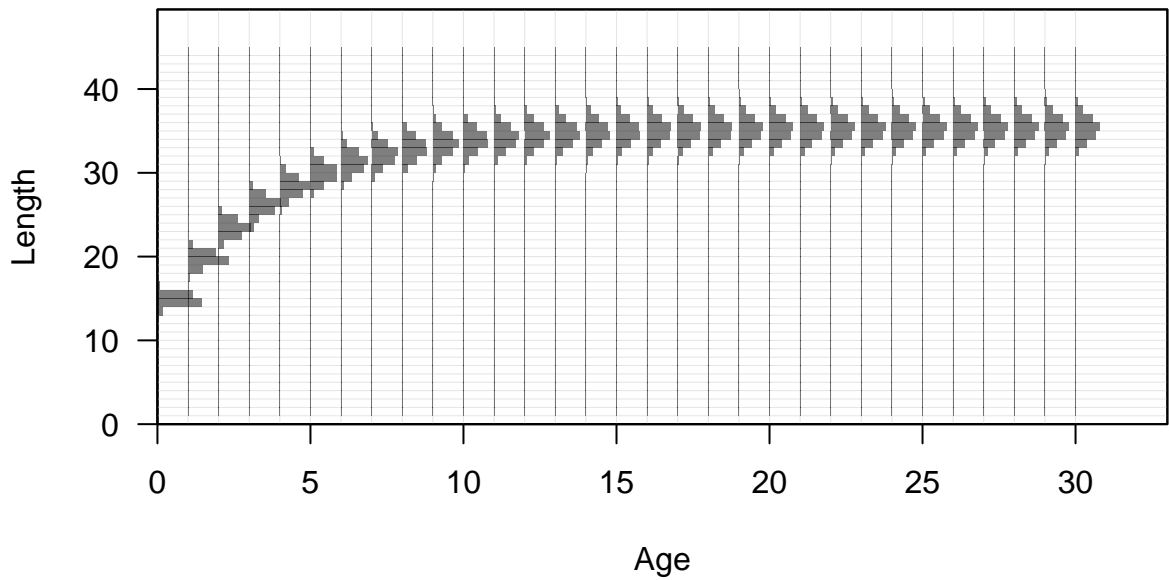
Plots created using the 'r4ss' package in R  
Stock Synthesis version: 3.30.19.0  
StartTime: Mon Aug 08 13:06:11 2022  
Data\_File: data.ss  
Control\_File: control.ss

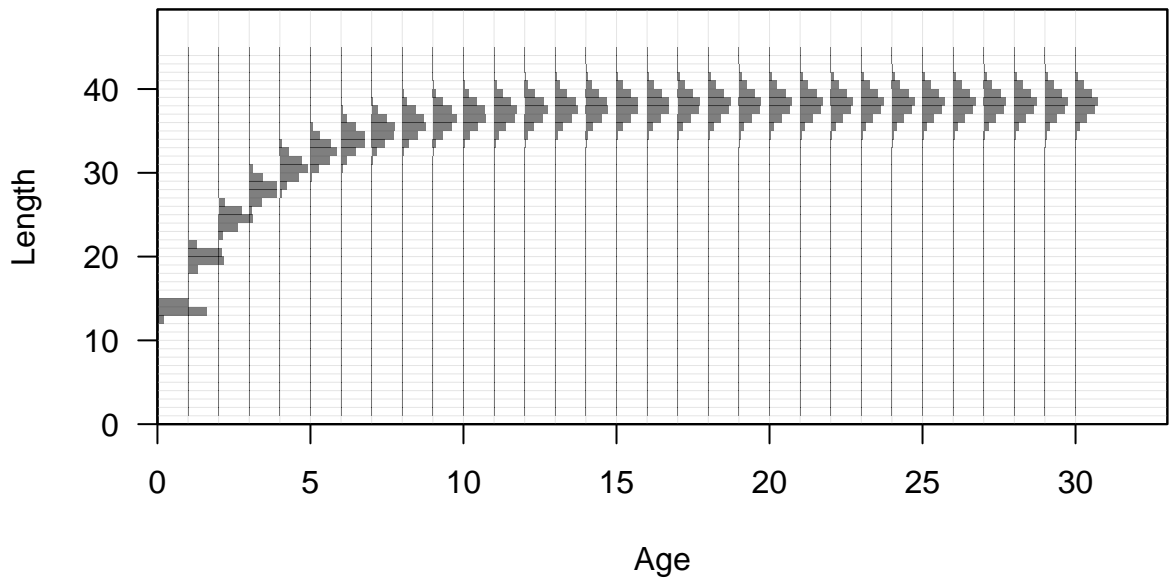
Length (cm, beginning of the year)

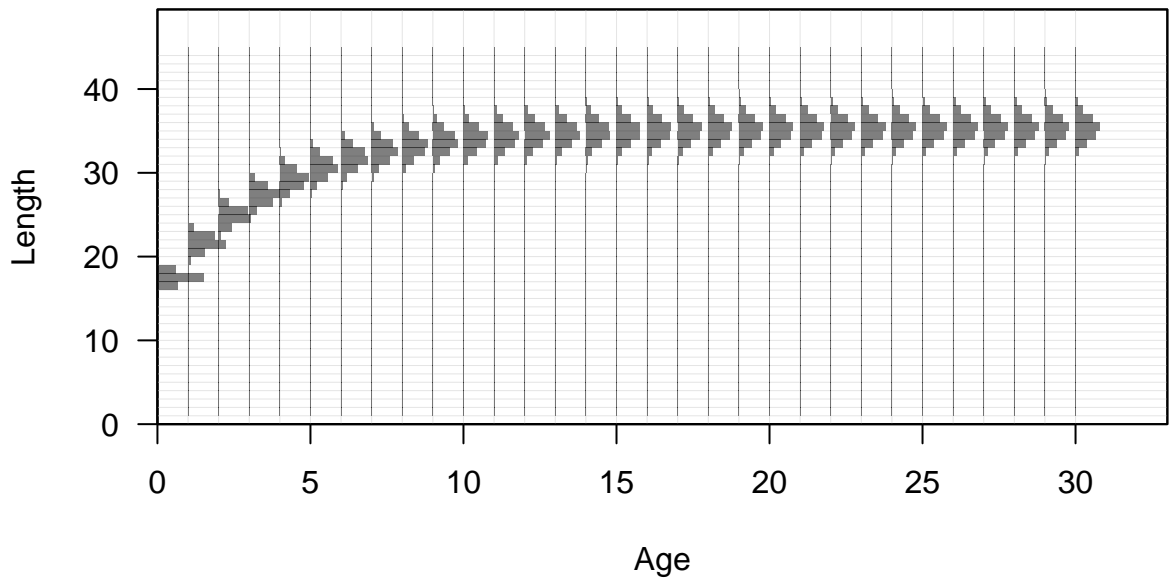


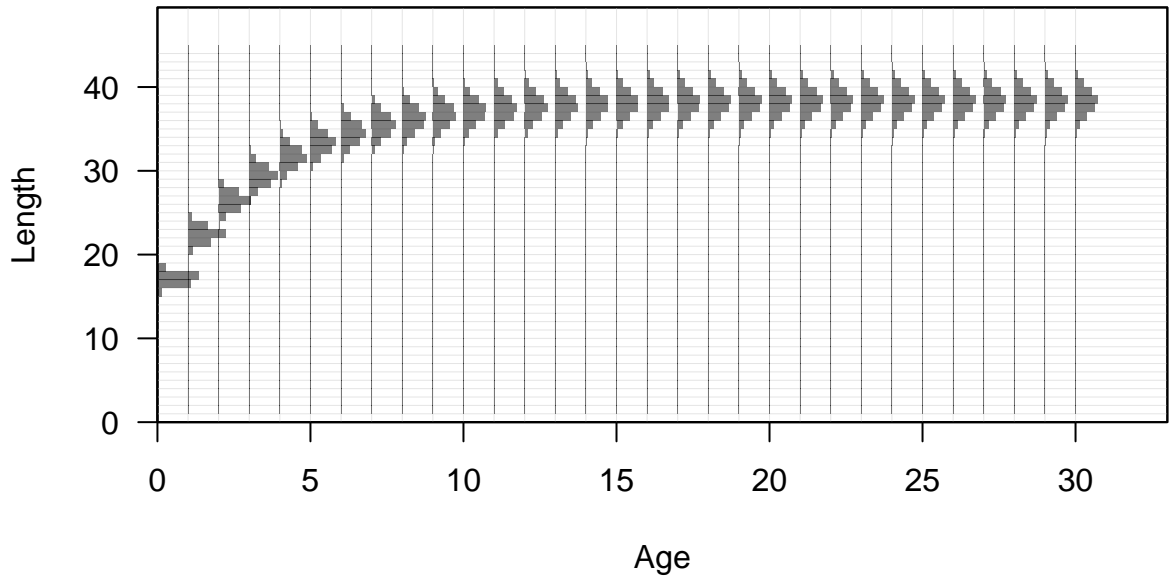


















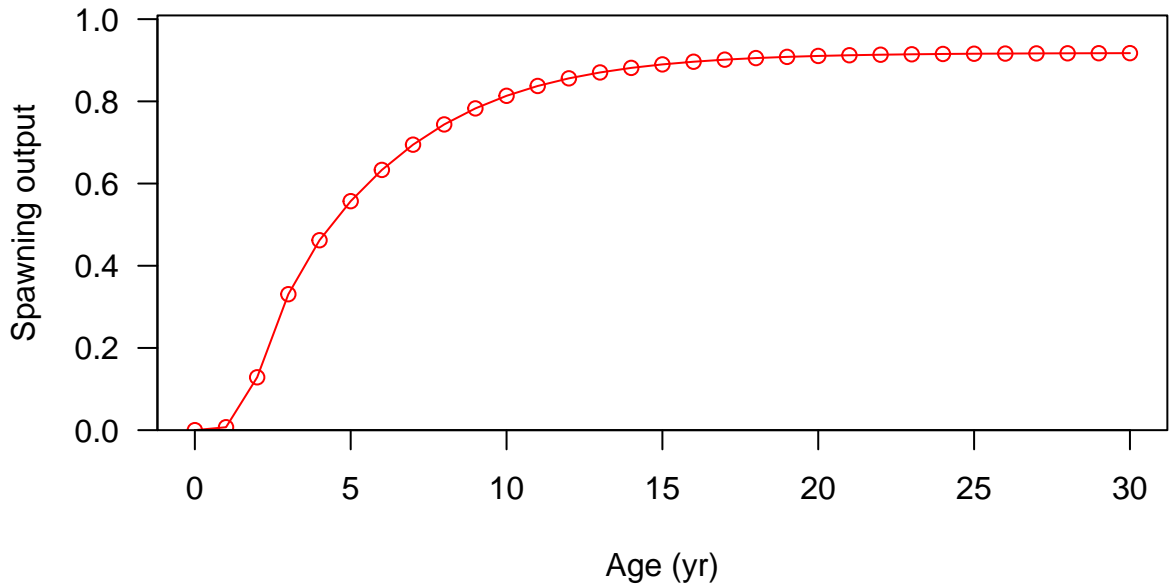






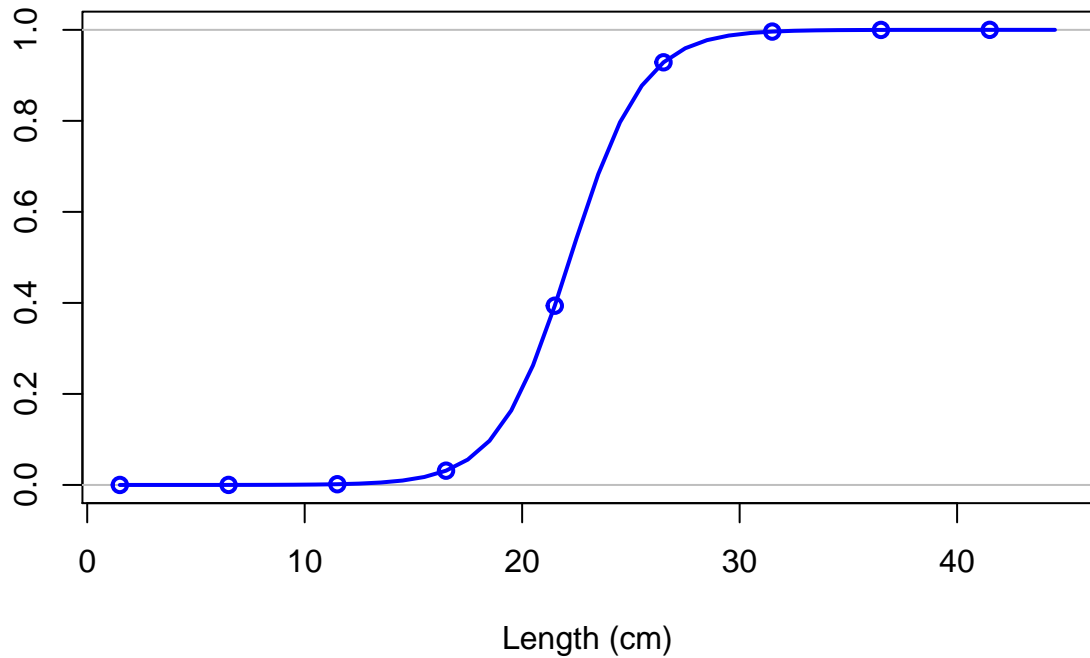




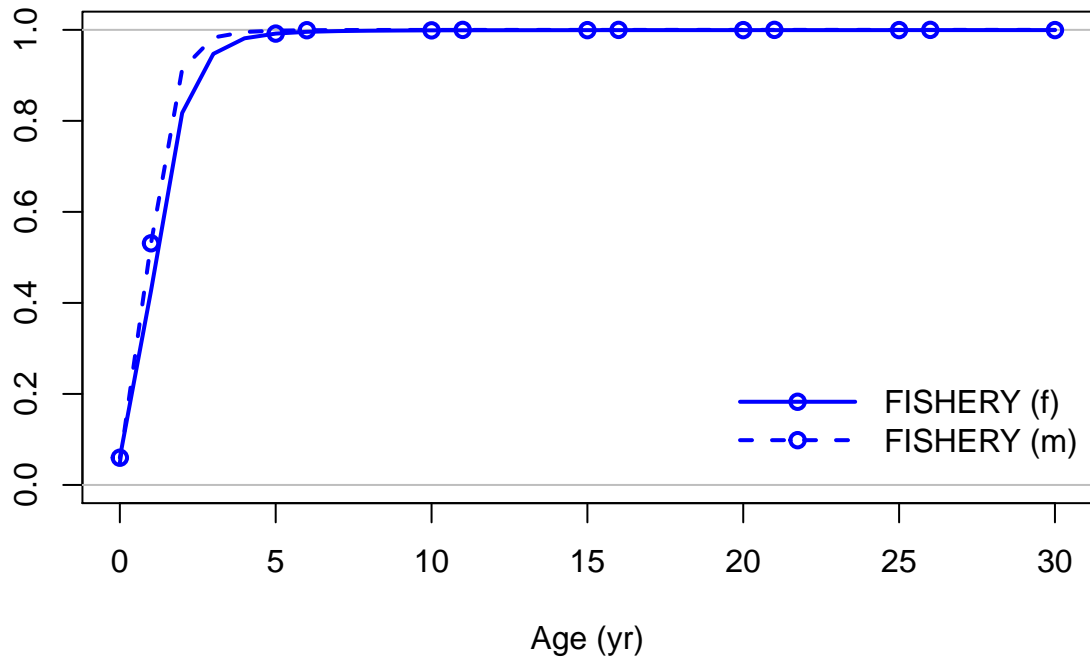




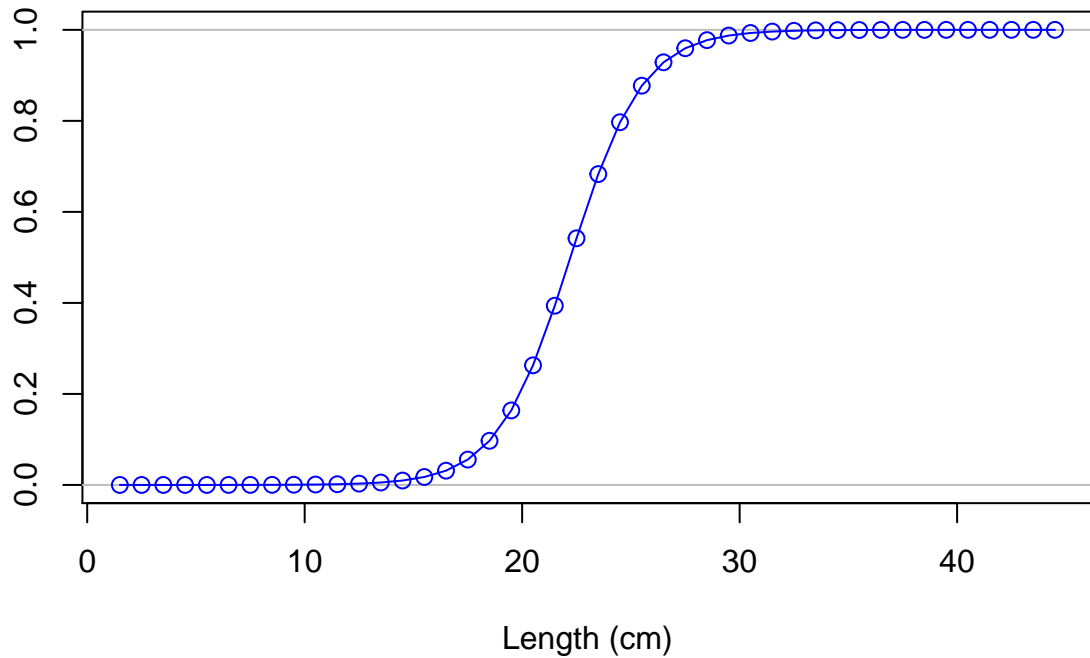
Selectivity



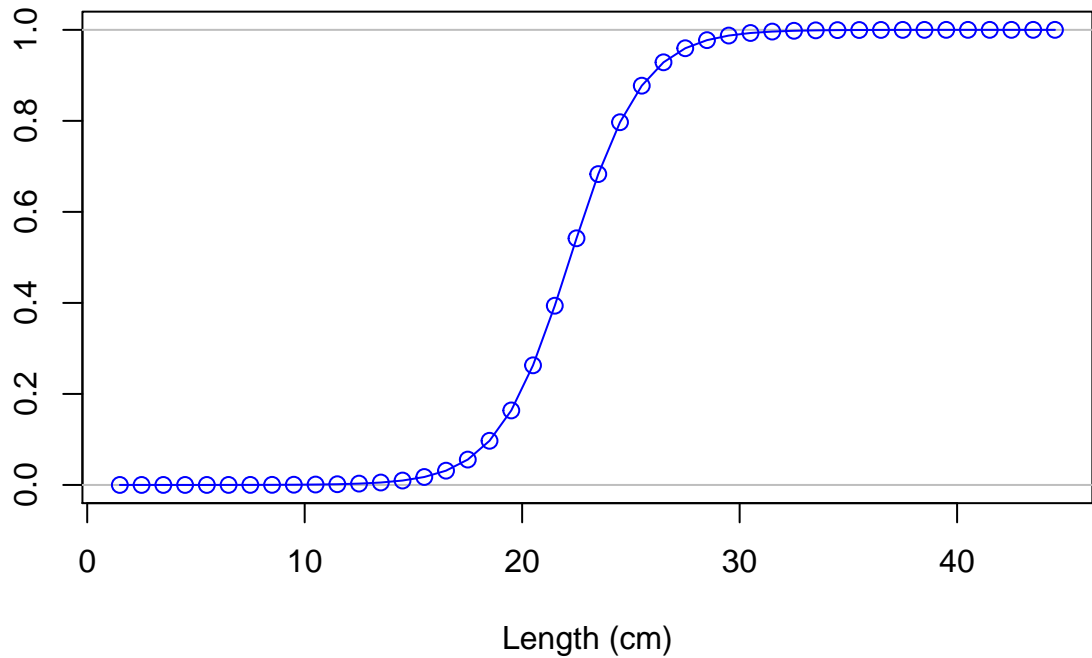
Selectivity

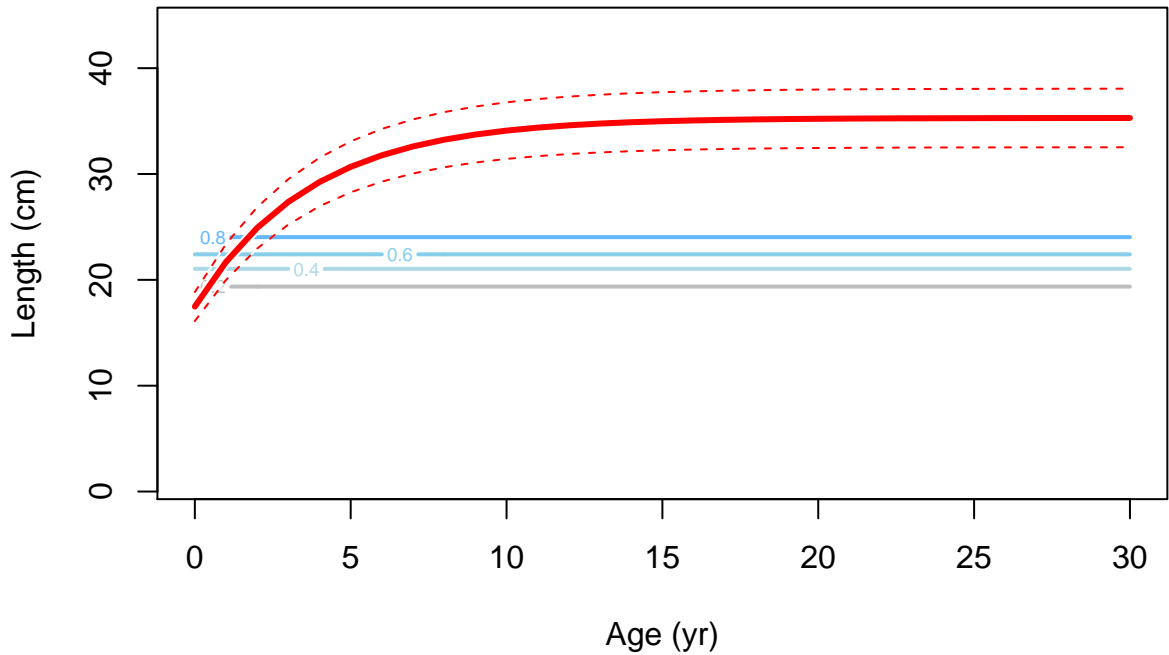


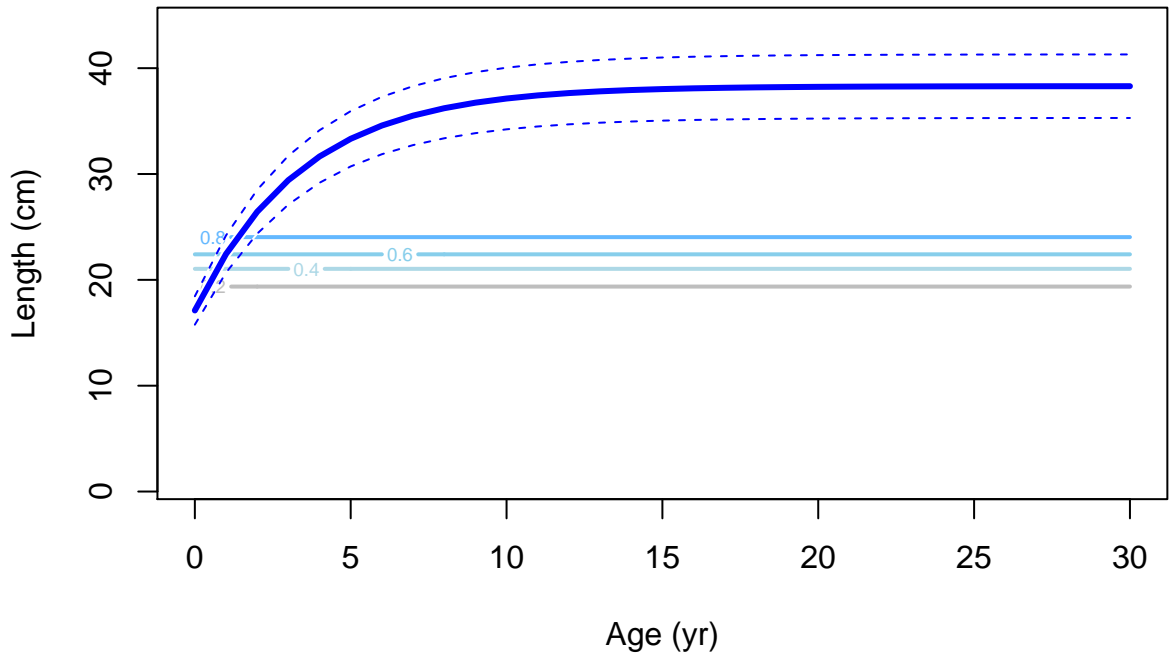
Selectivity

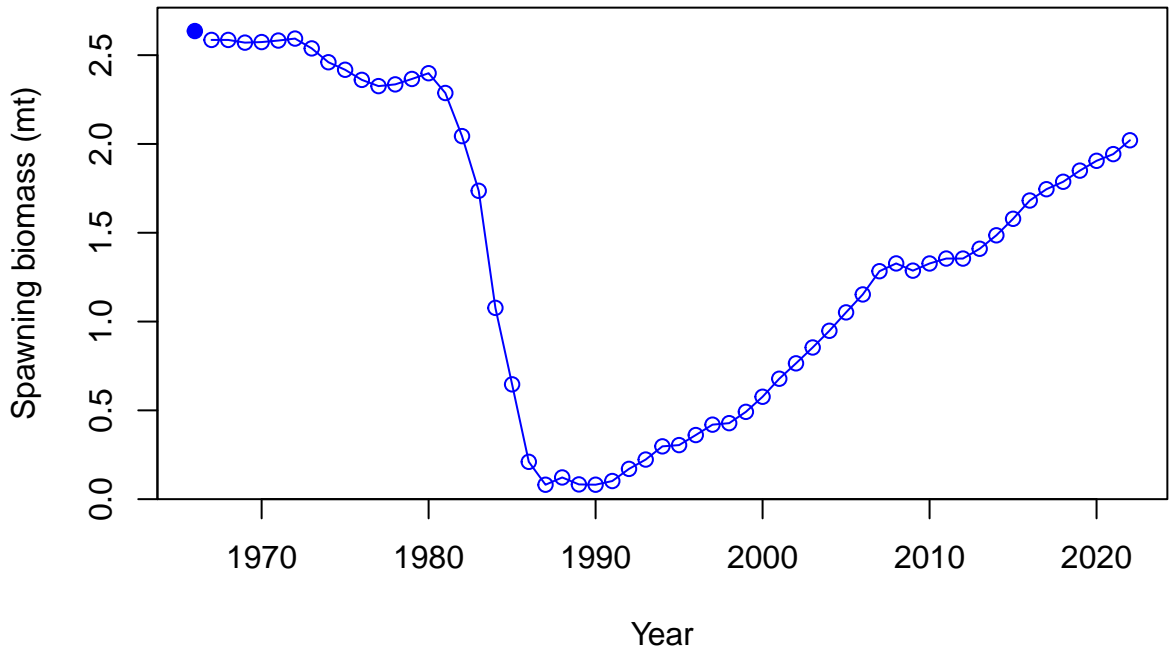


Selectivity

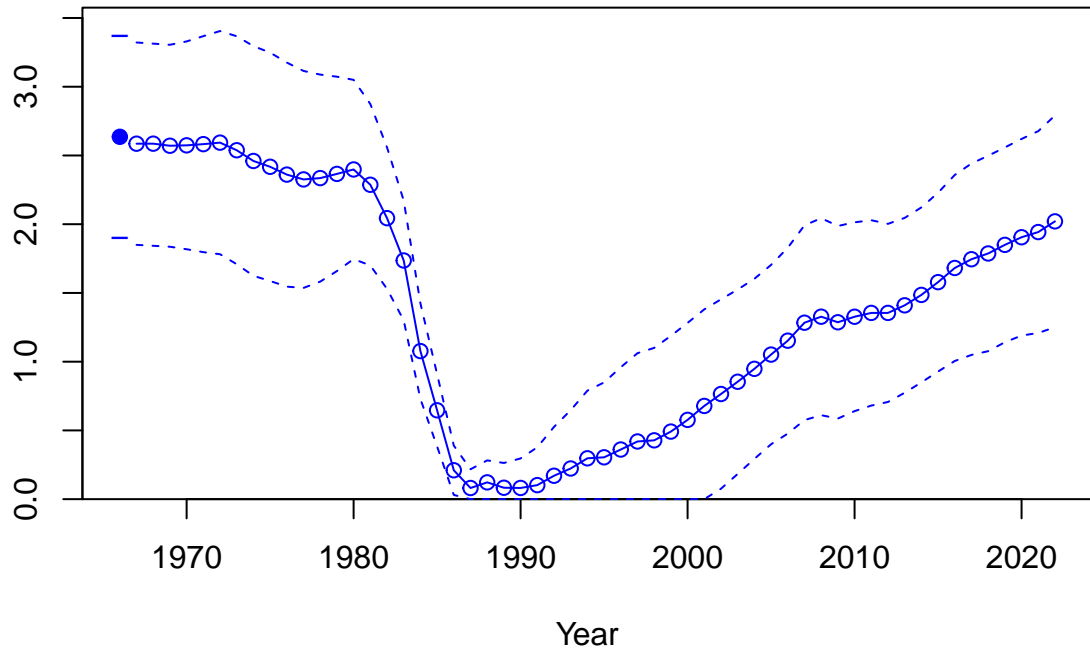






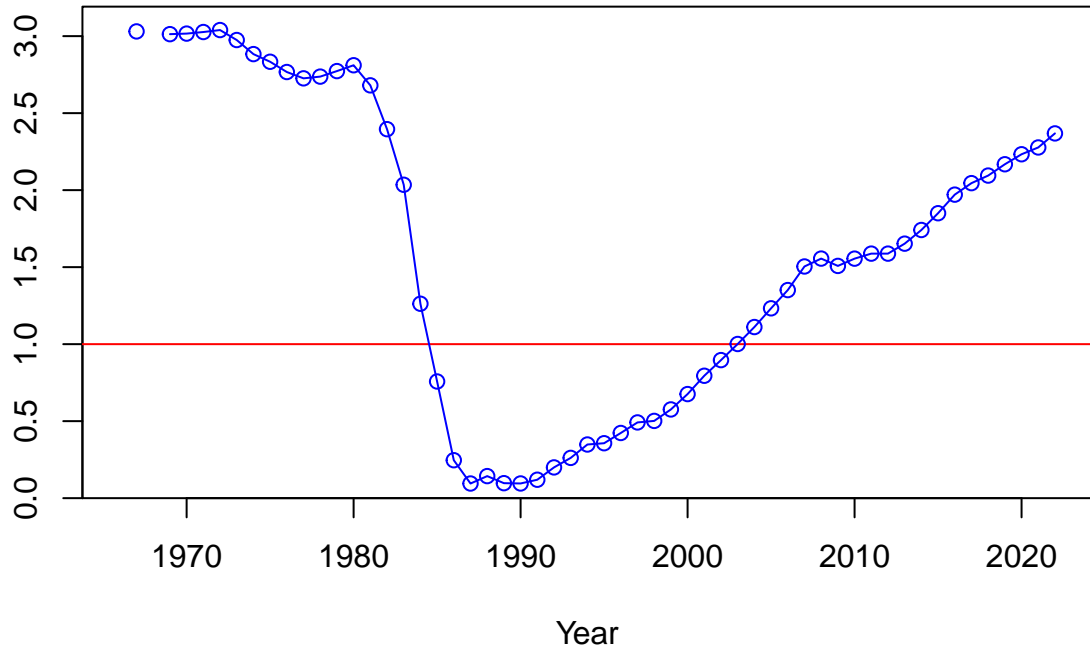


Spawning biomass (mt)

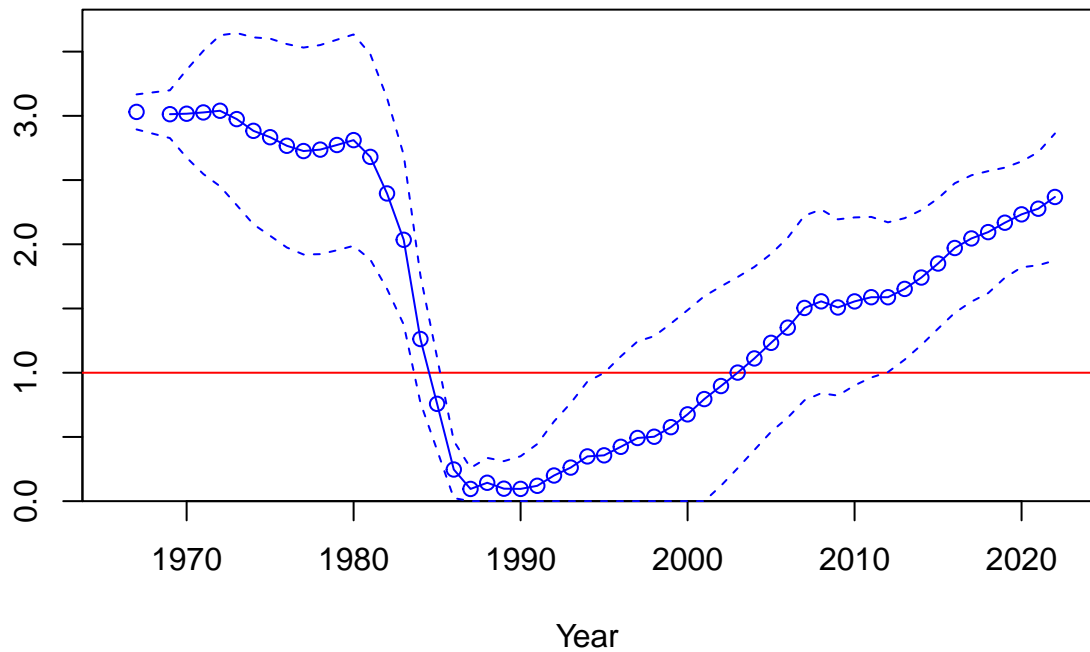


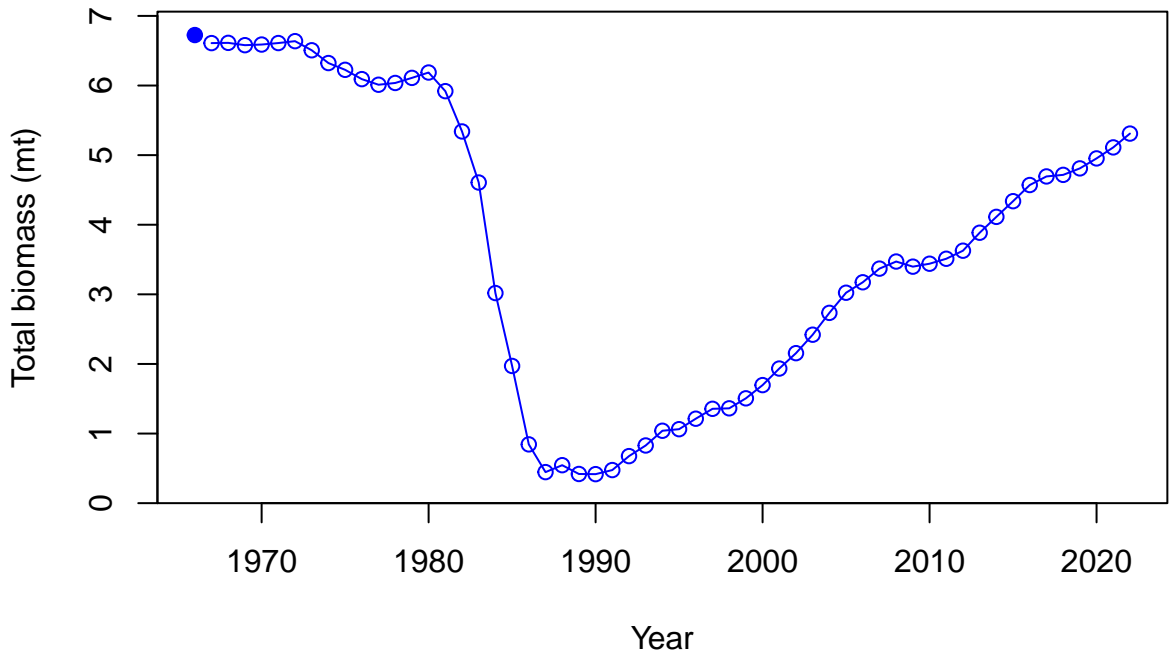


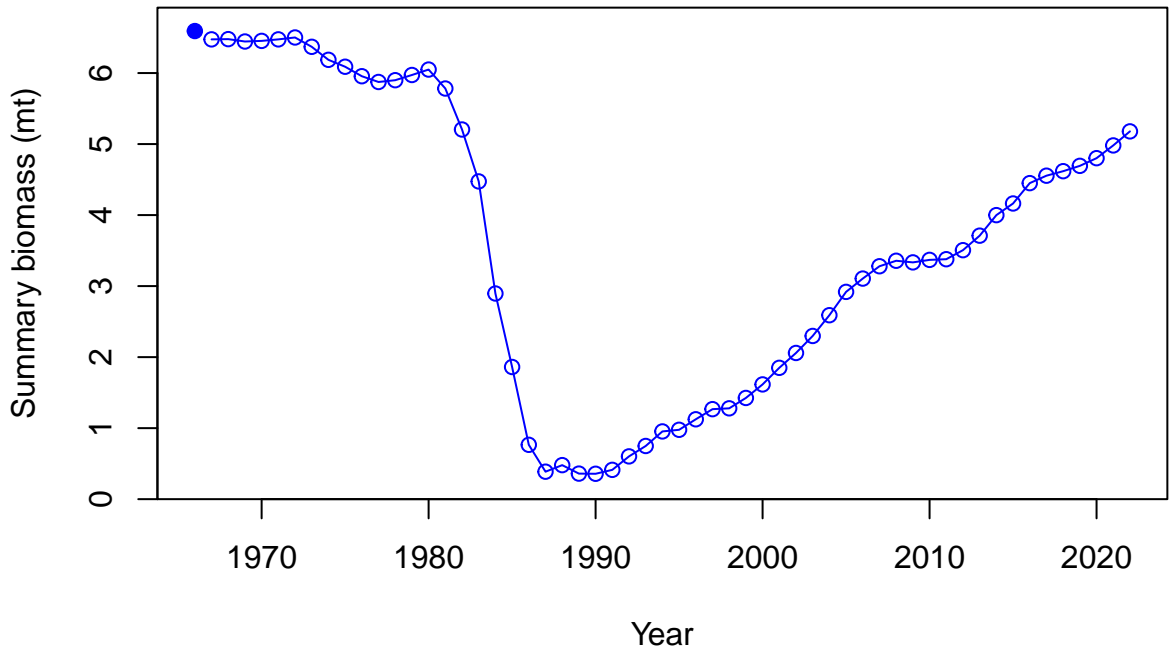
Relative spawning biomass:  $B/B_{MSY}$

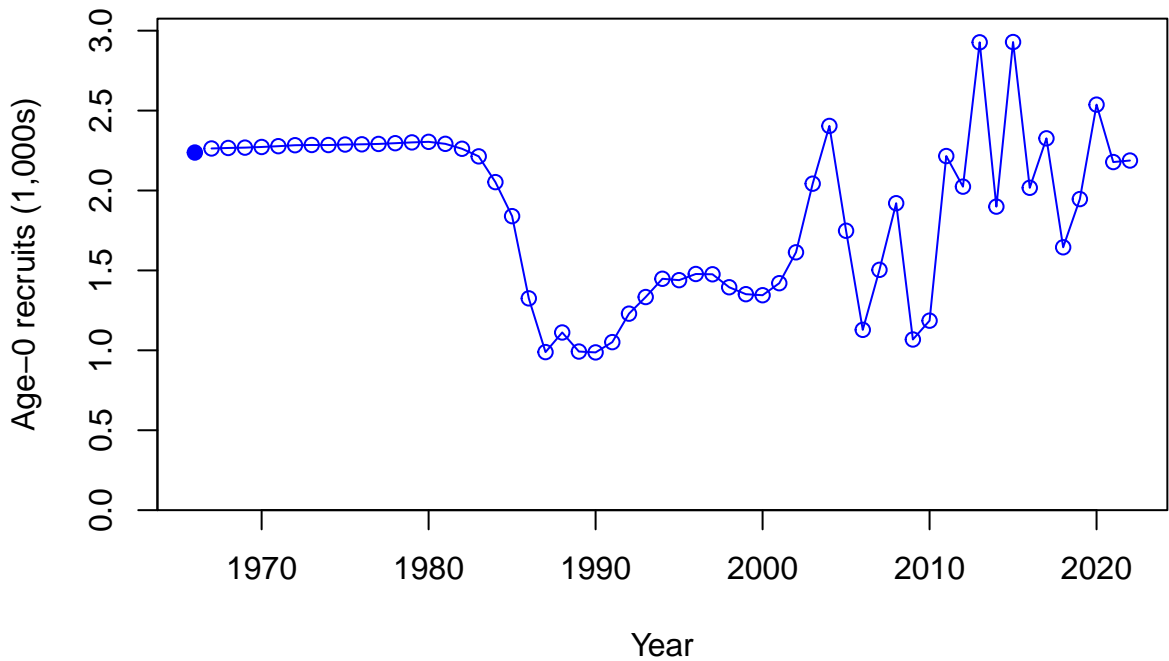


Relative spawning biomass:  $B/B_{MSY}$

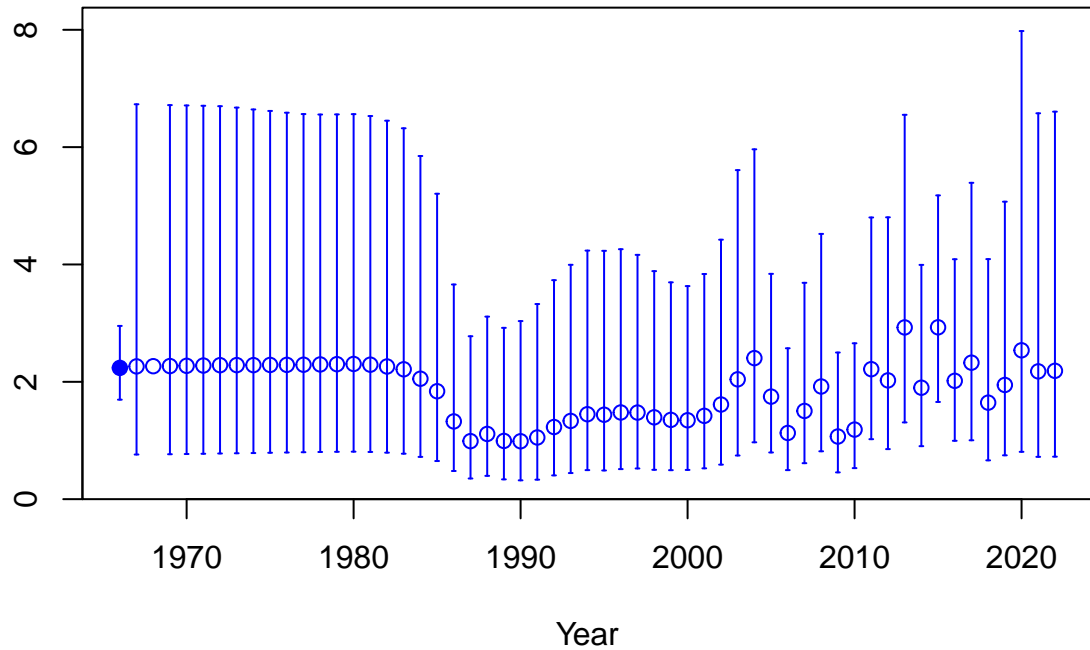




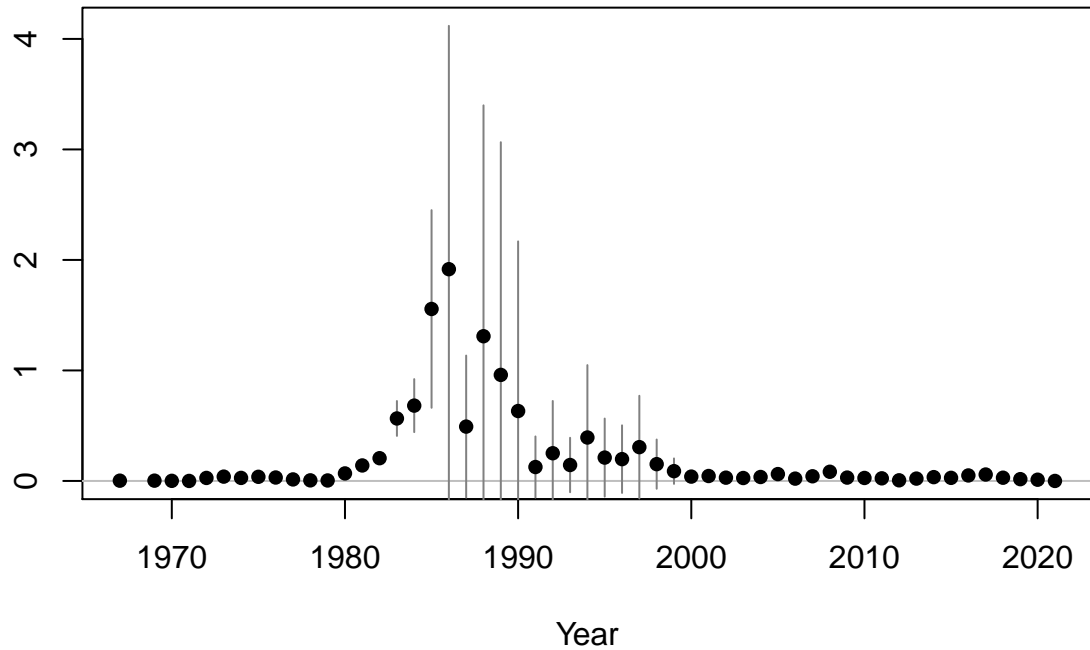


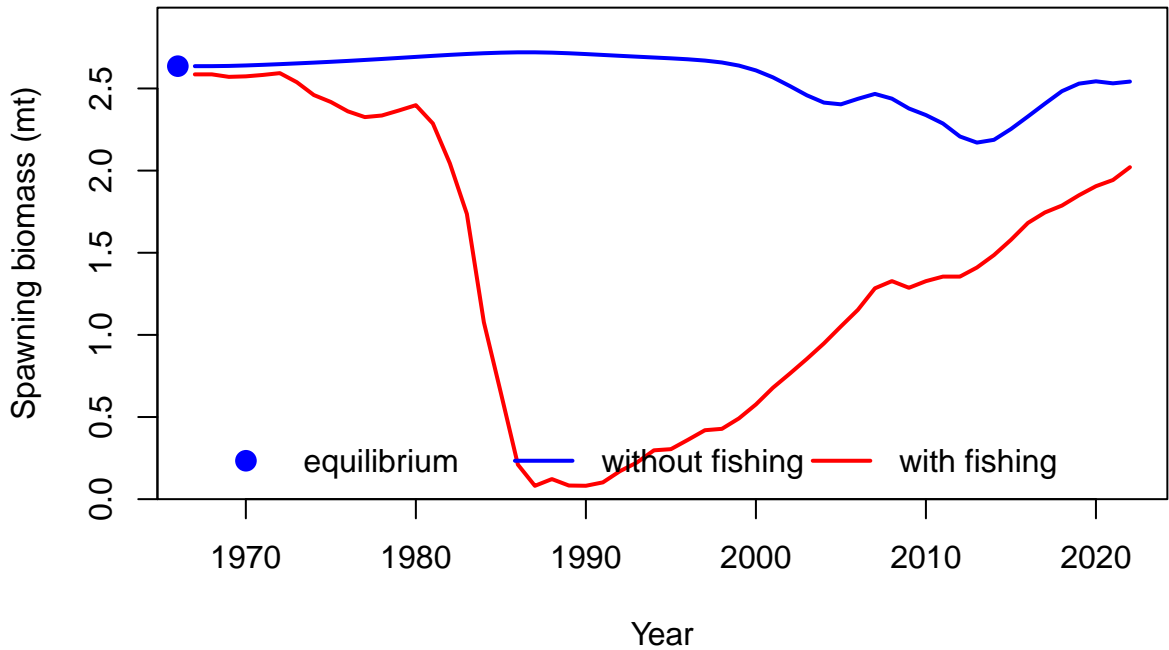


Age-0 recruits (1,000s)



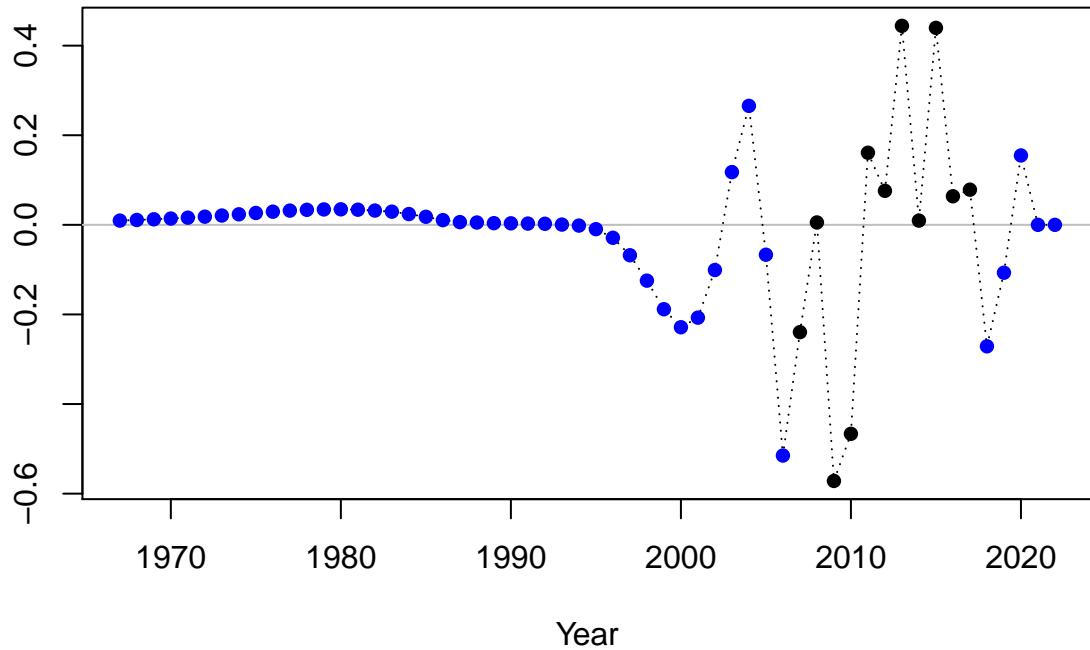
Summary Fishing Mortality



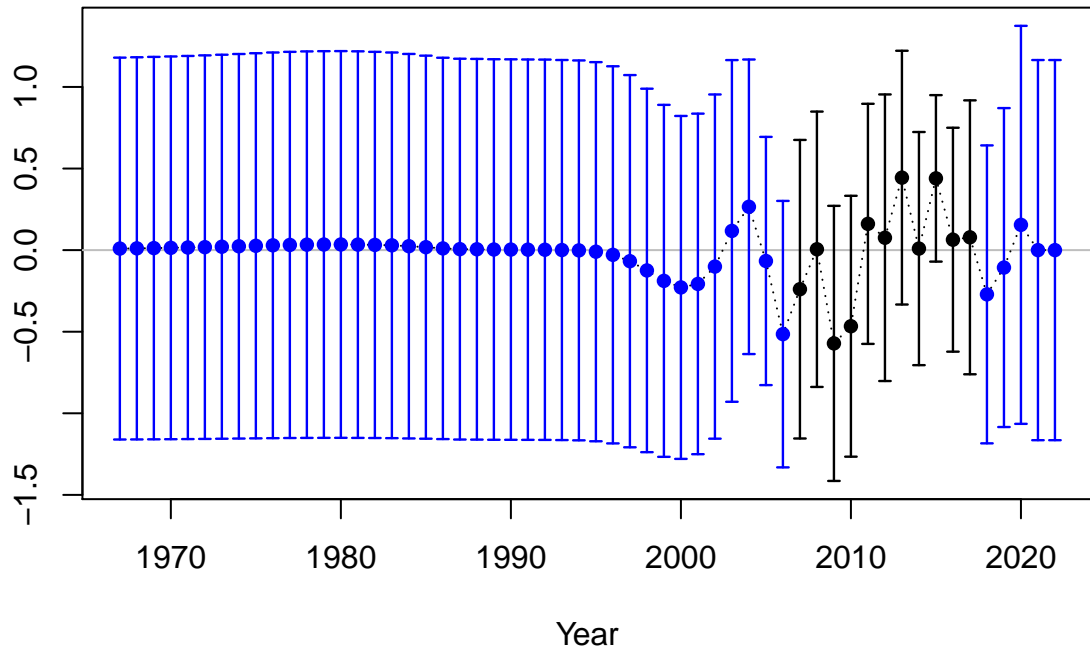




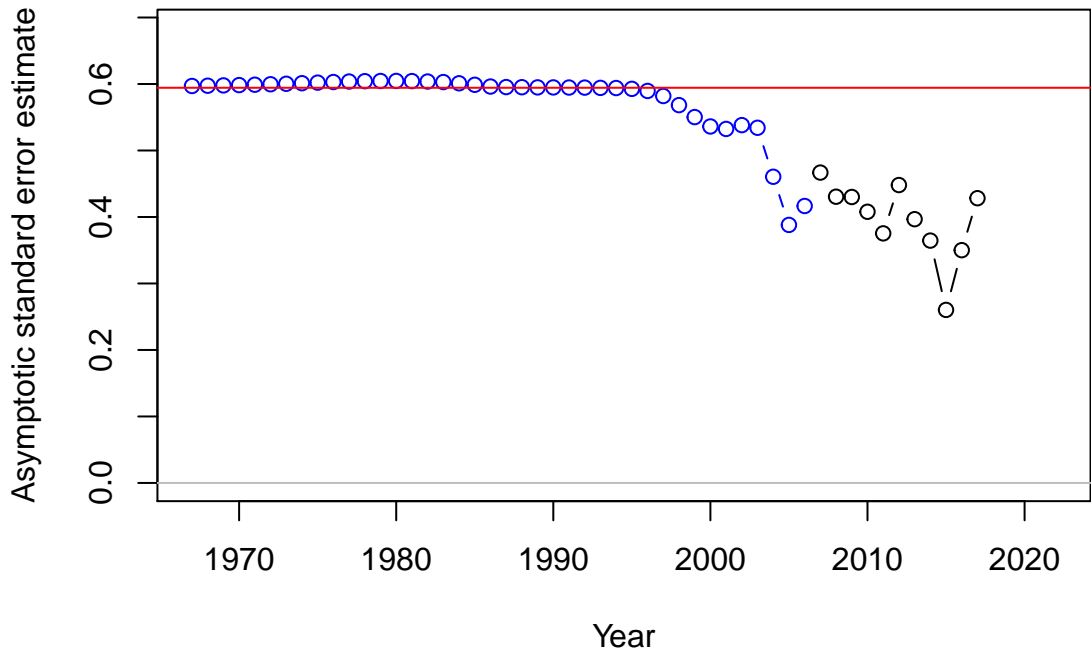
Log recruitment deviation

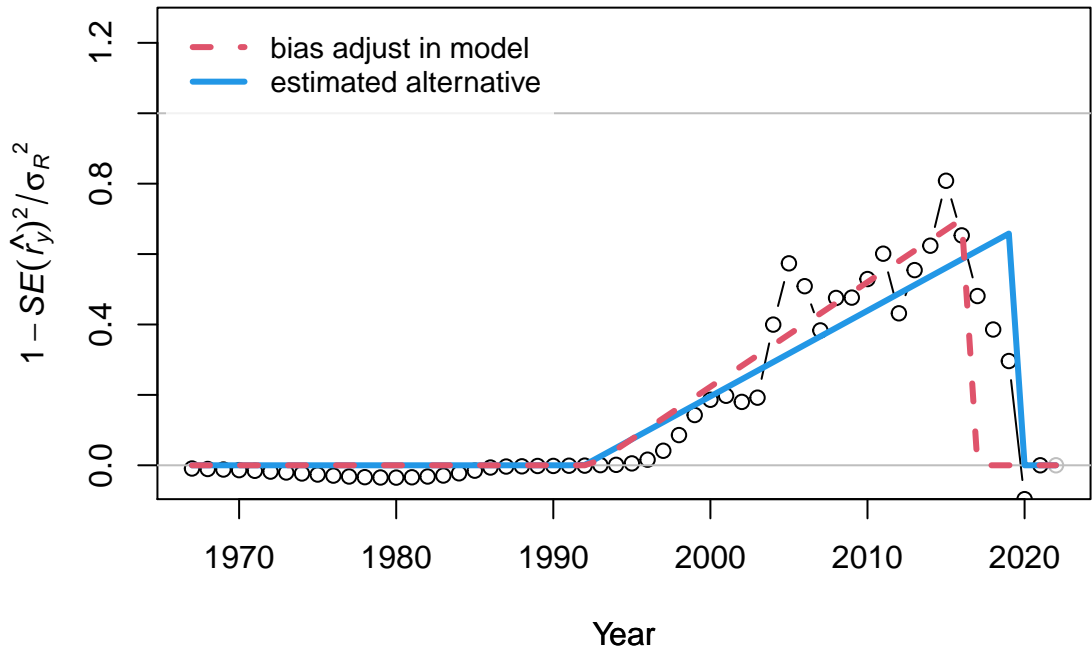


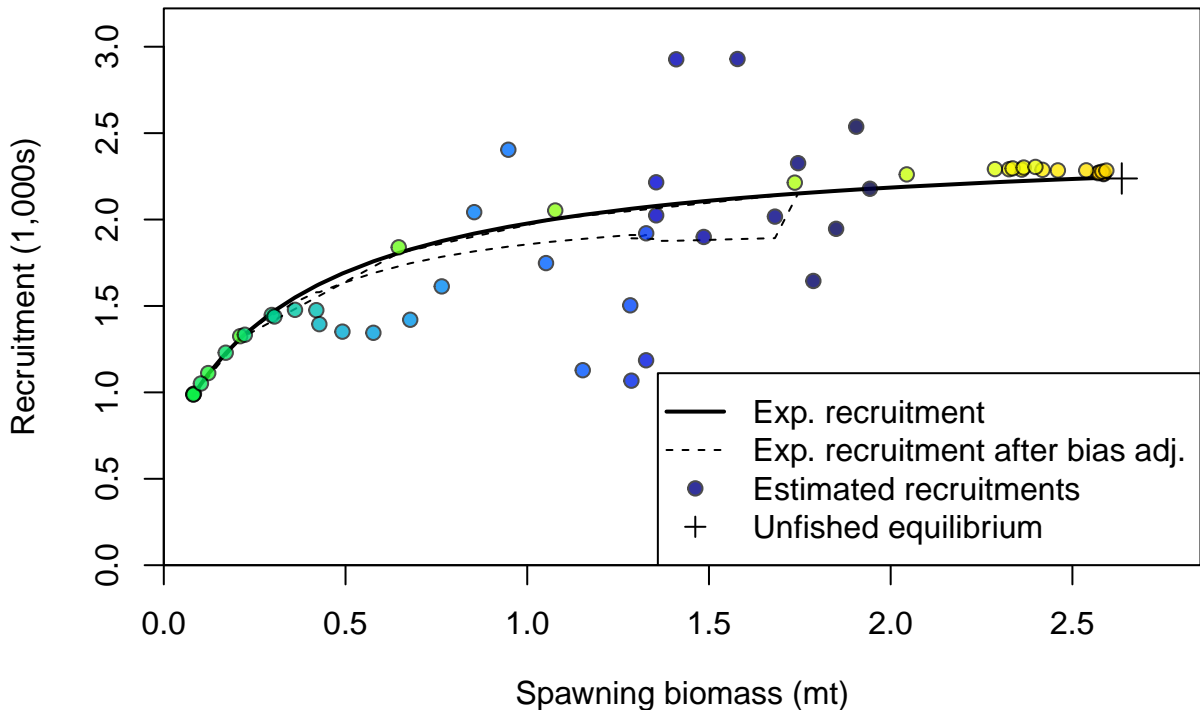
Log recruitment deviation

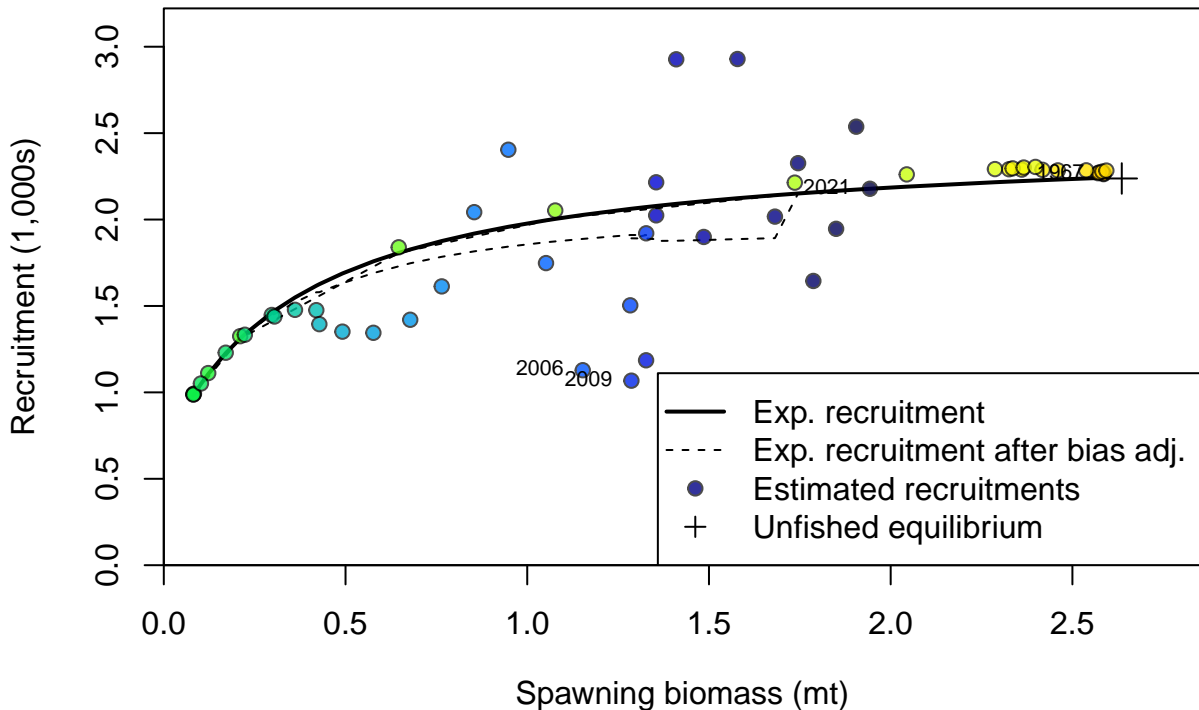


## Recruitment deviation variance

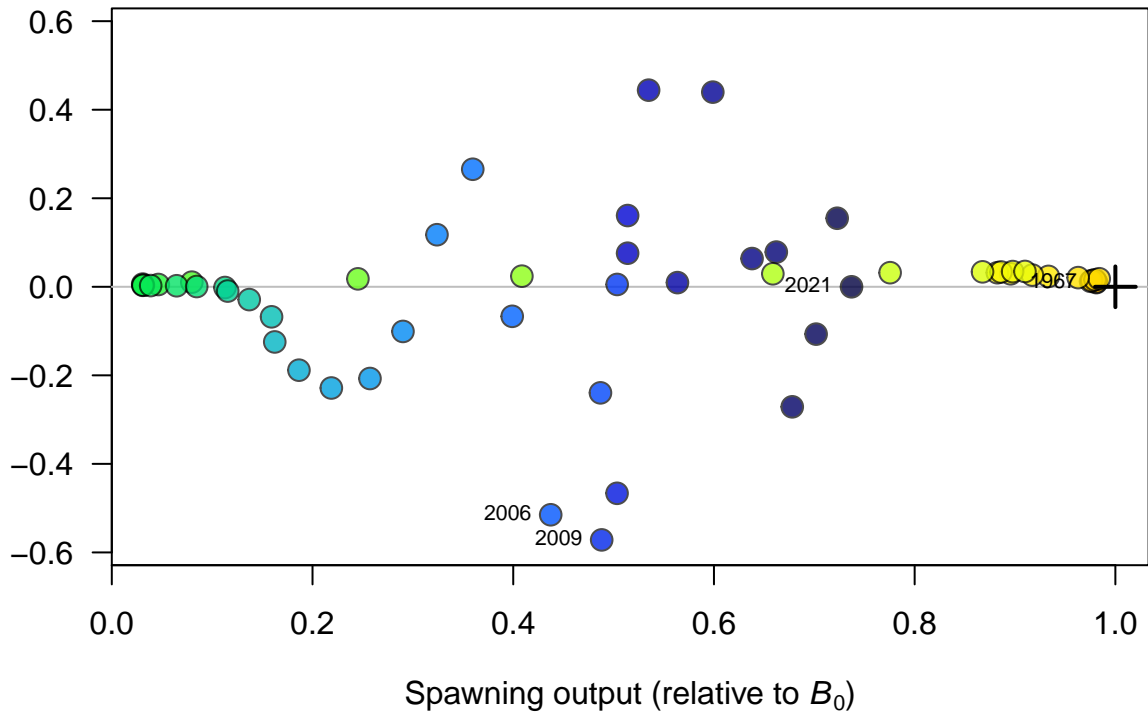


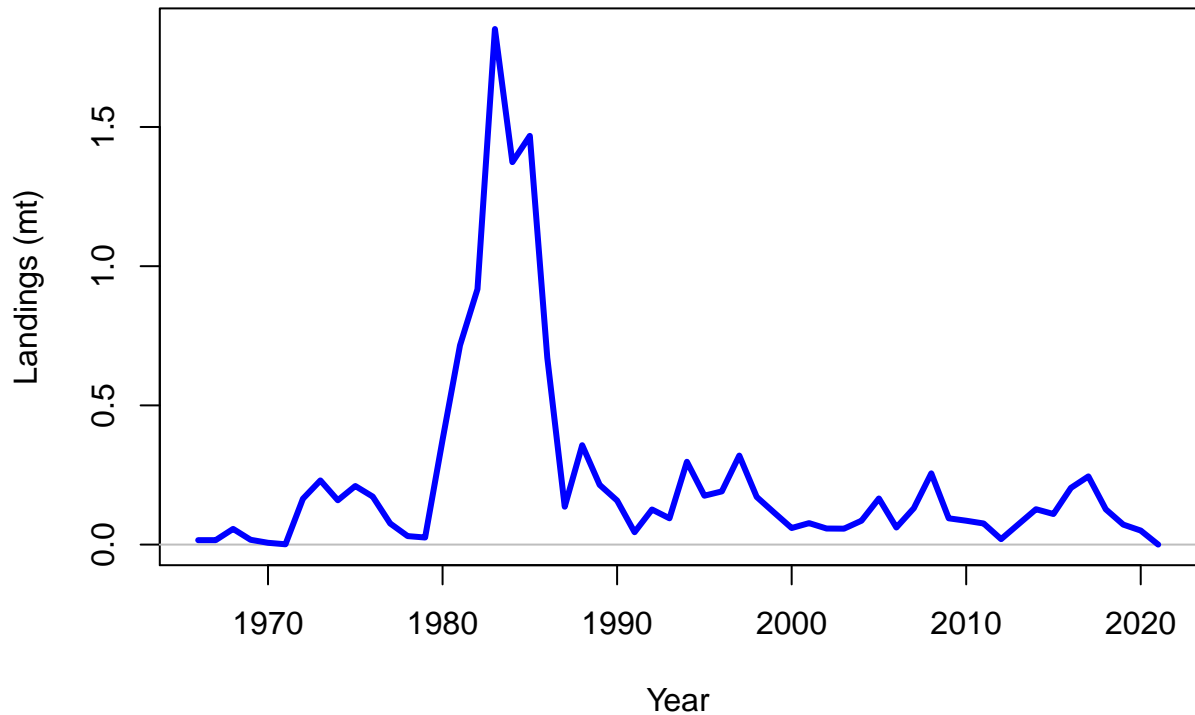




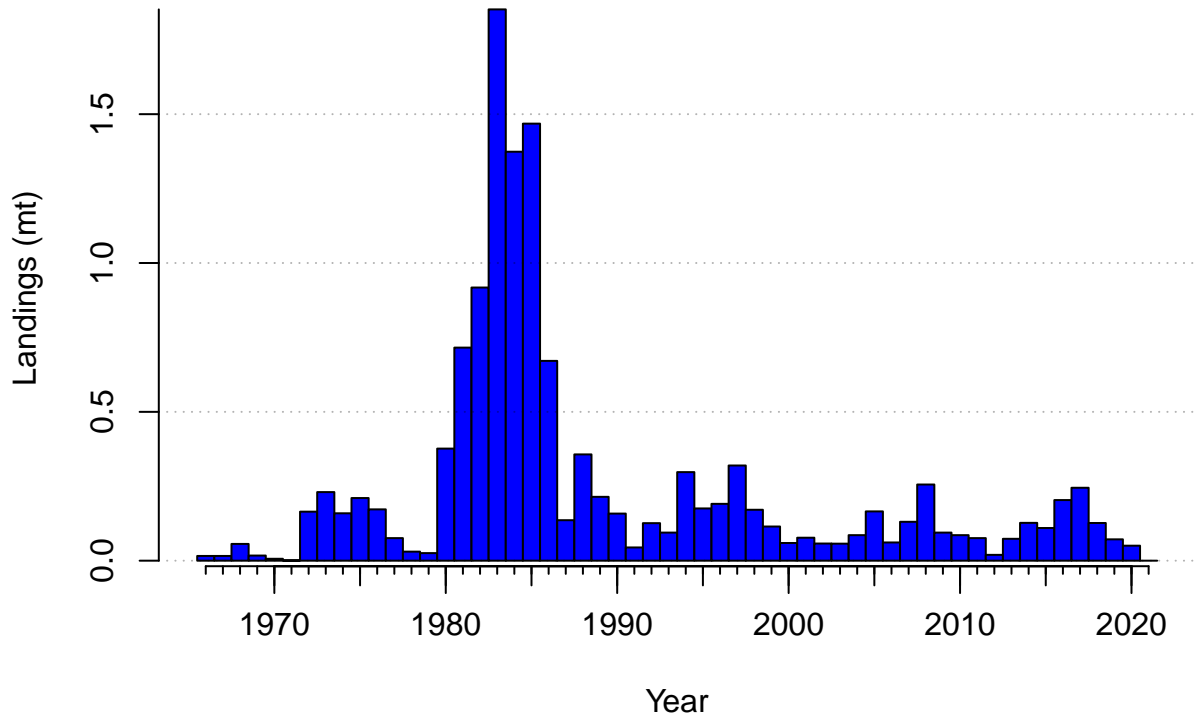


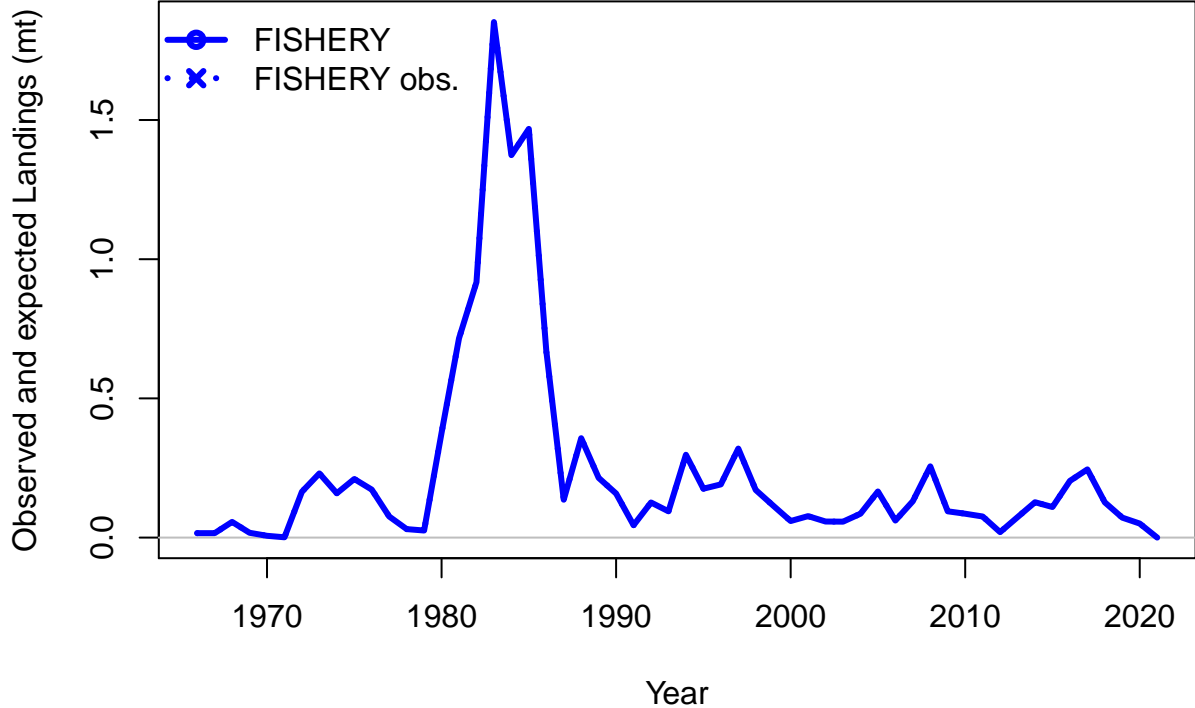
Log recruitment deviation

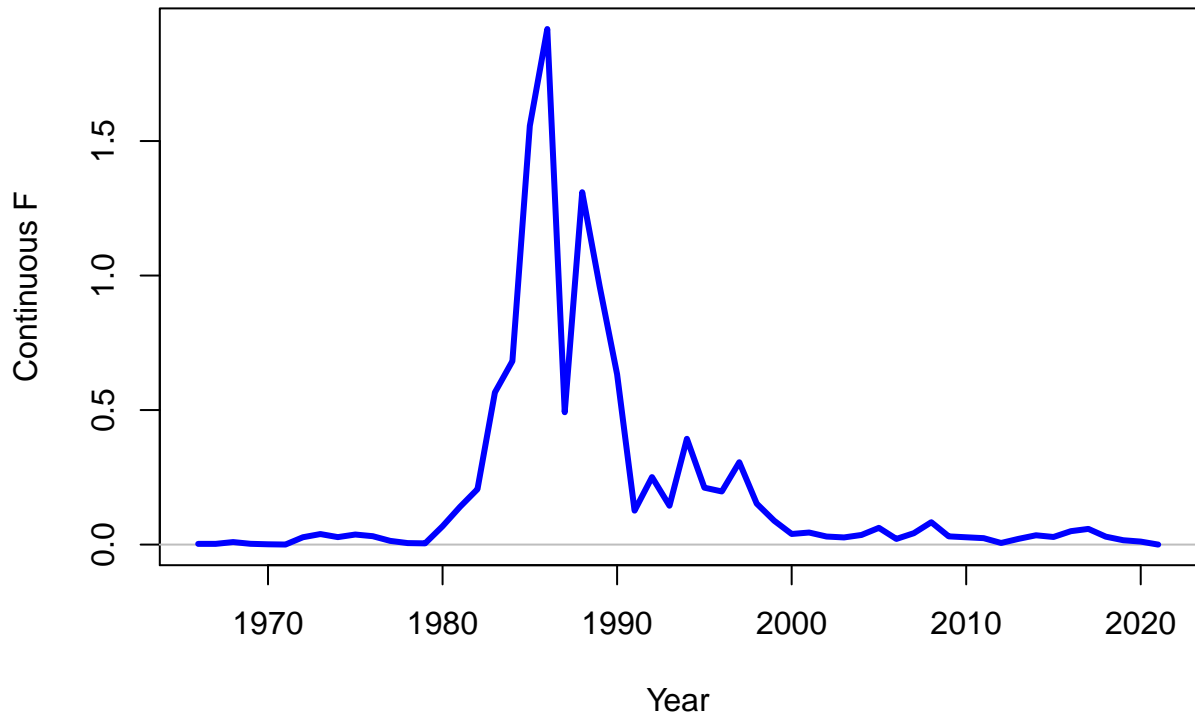




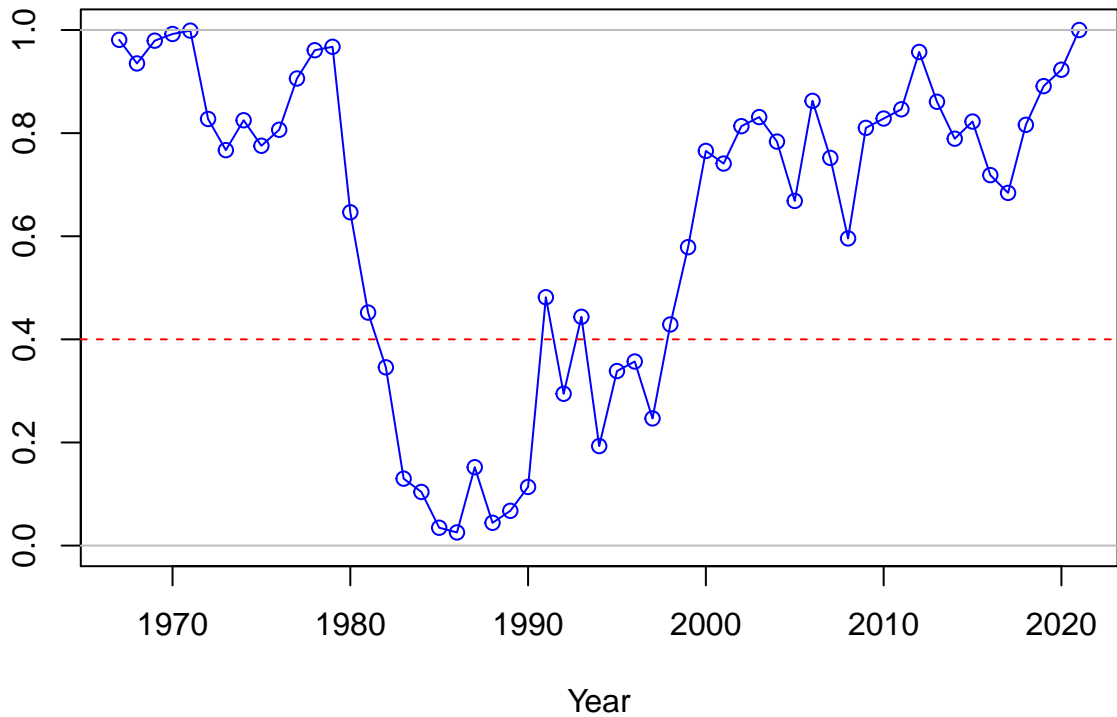




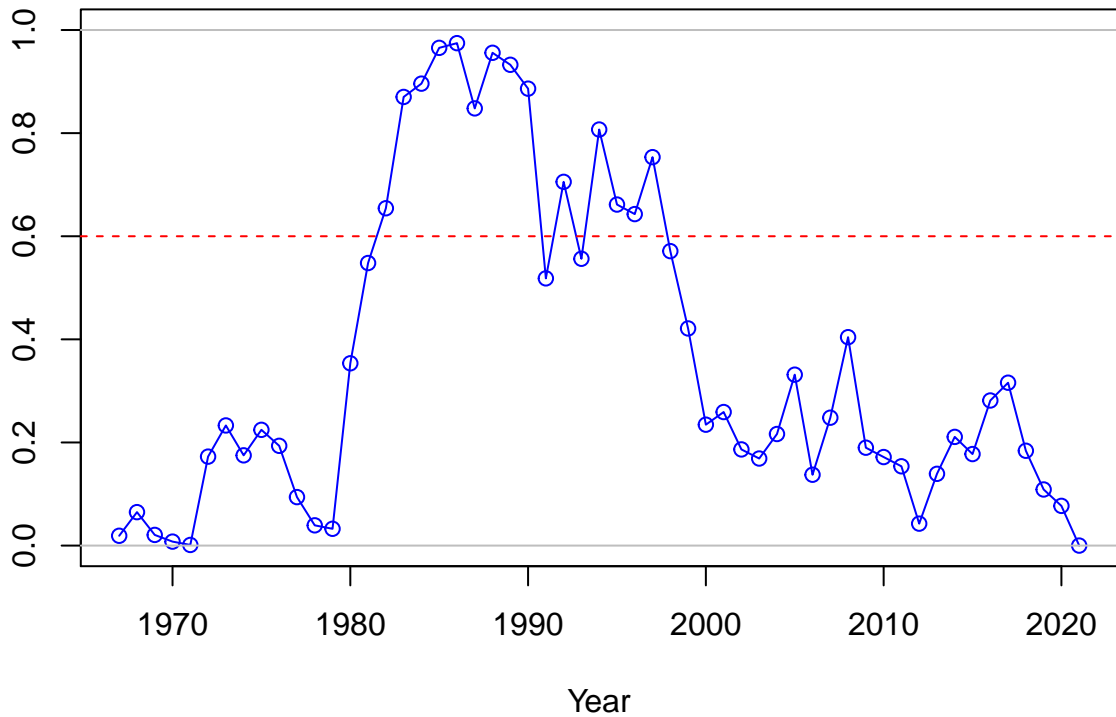




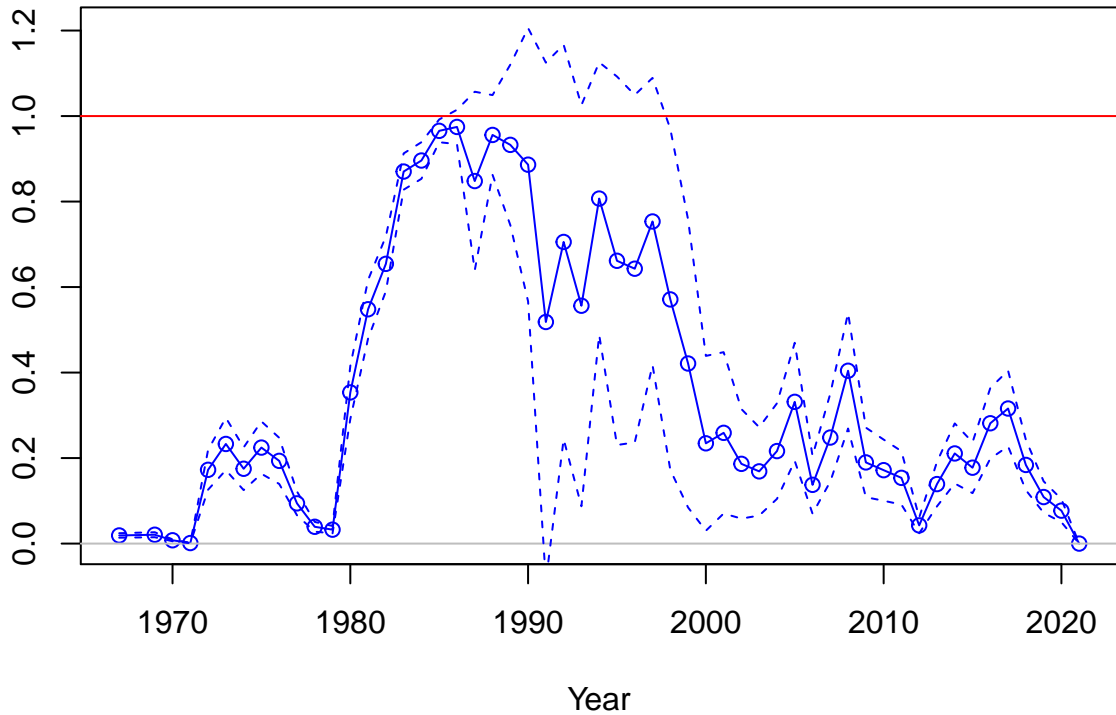
SPR

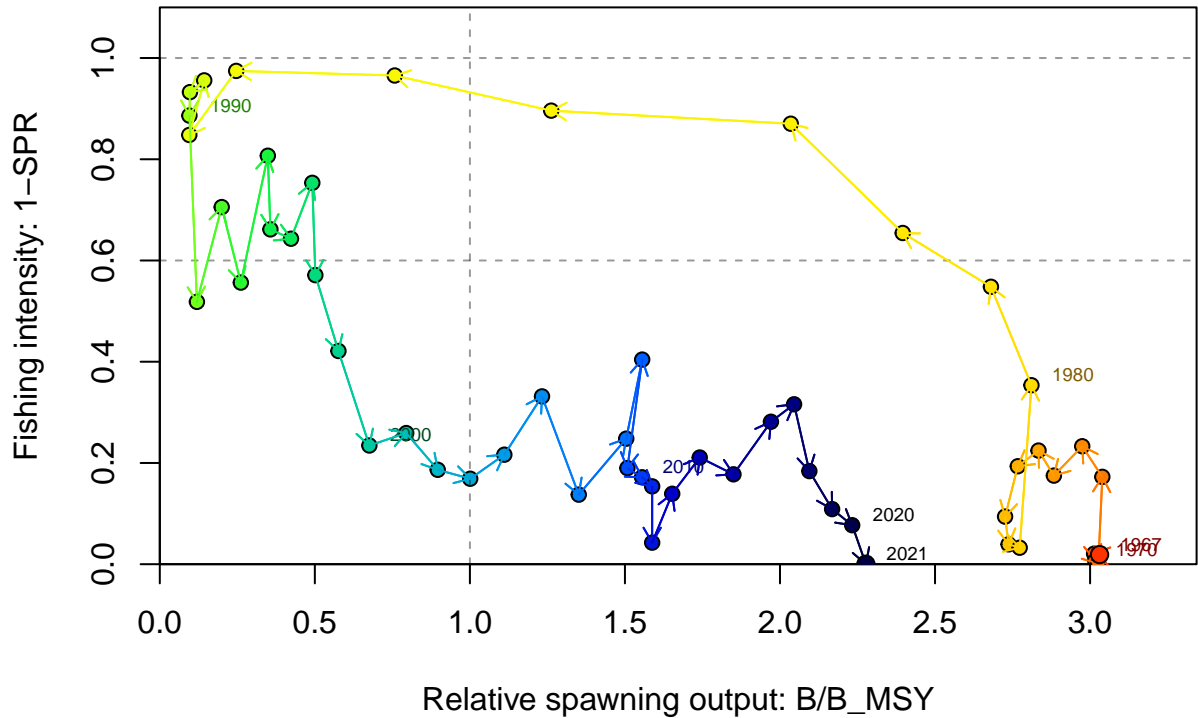


1-SPR

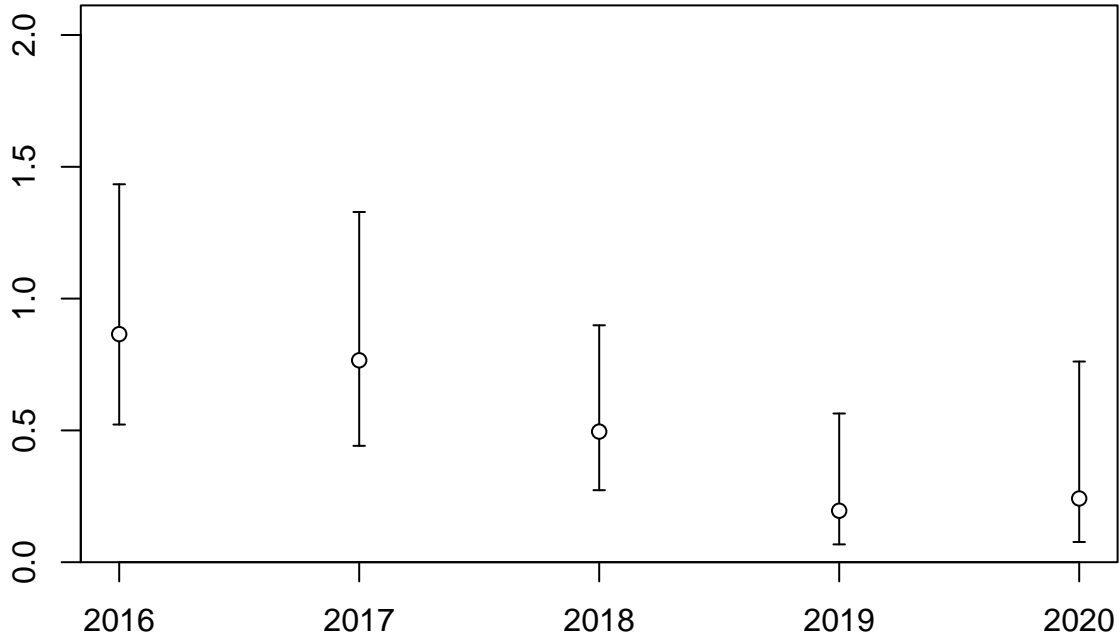


Fishing intensity: 1-SPR





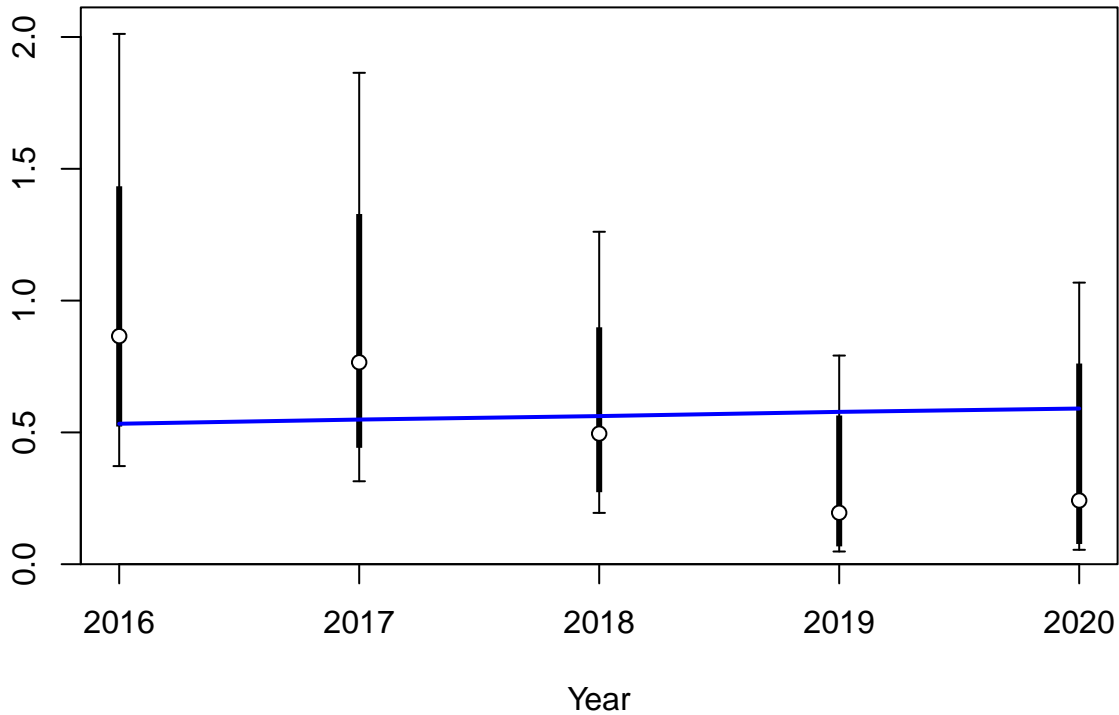
Index

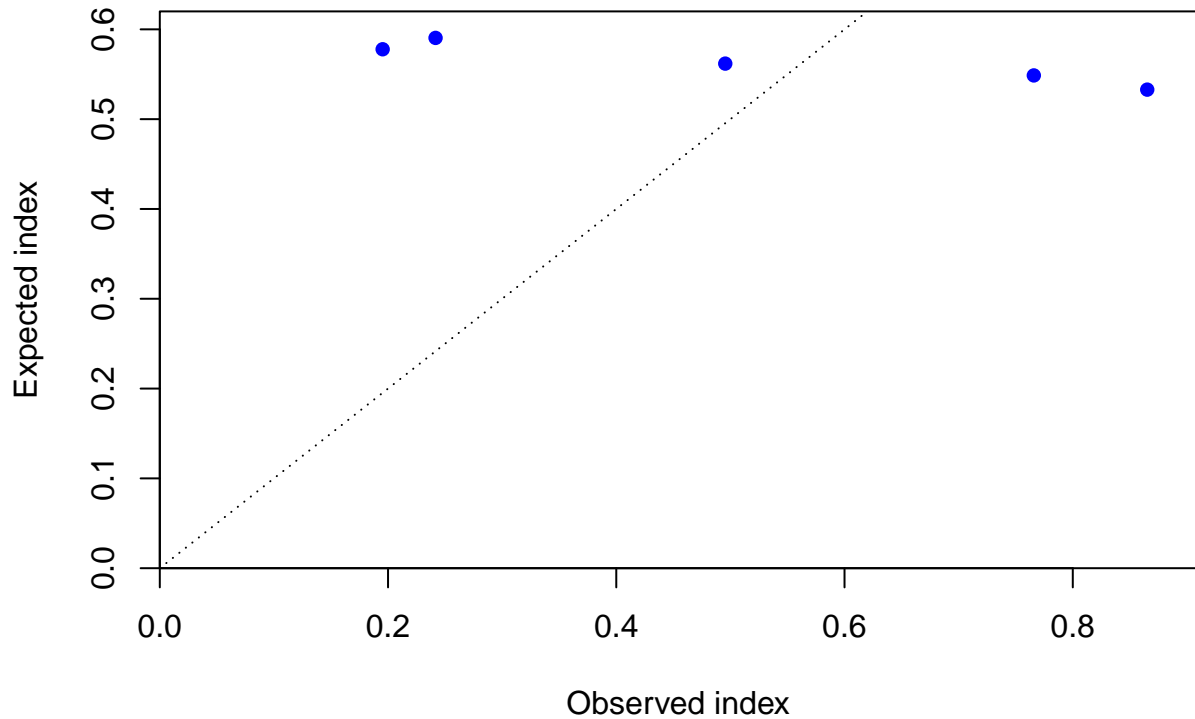


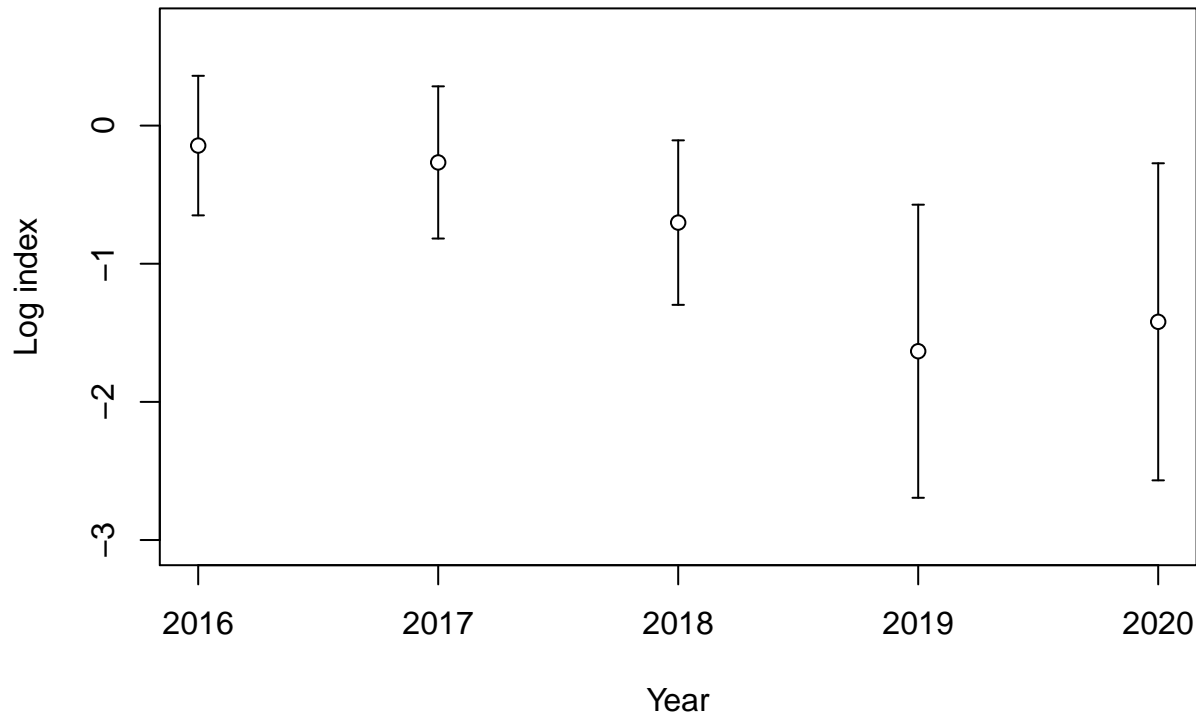
Year

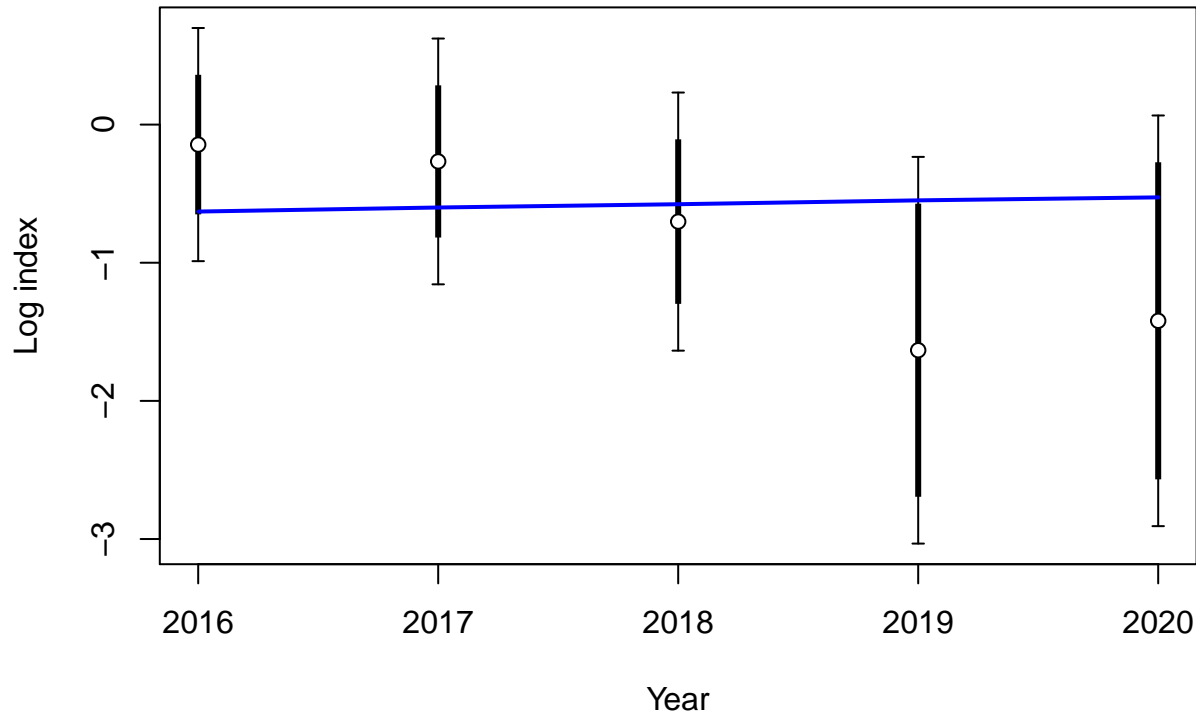


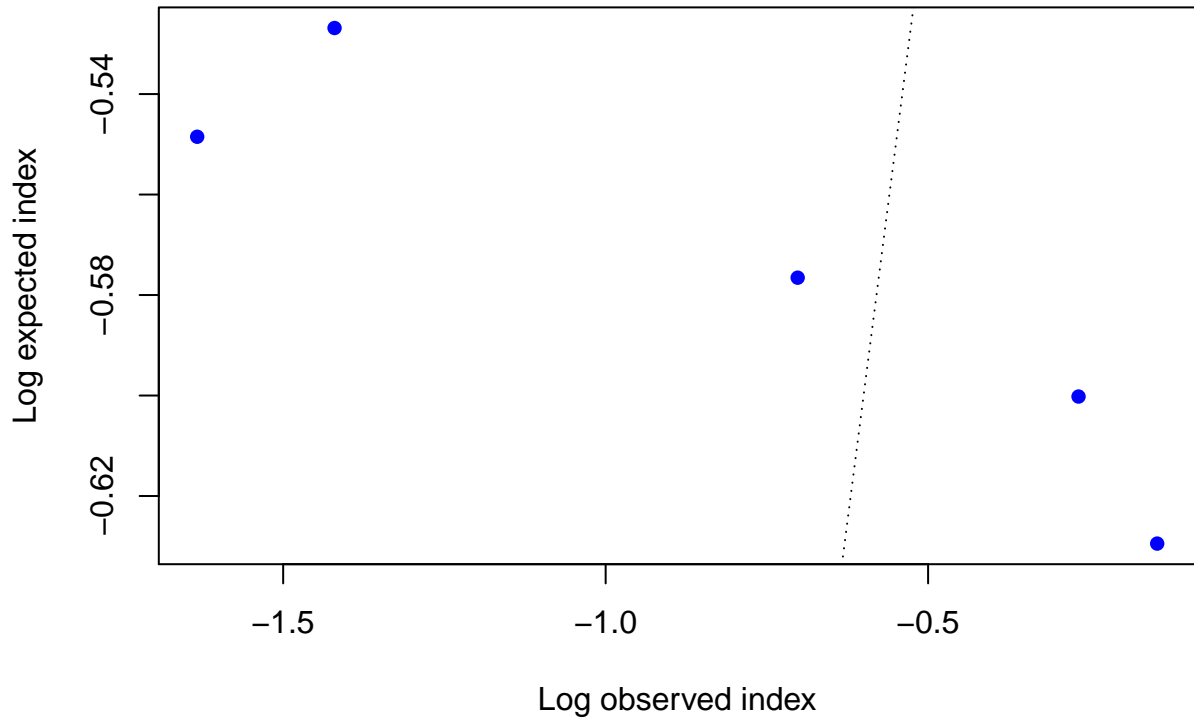
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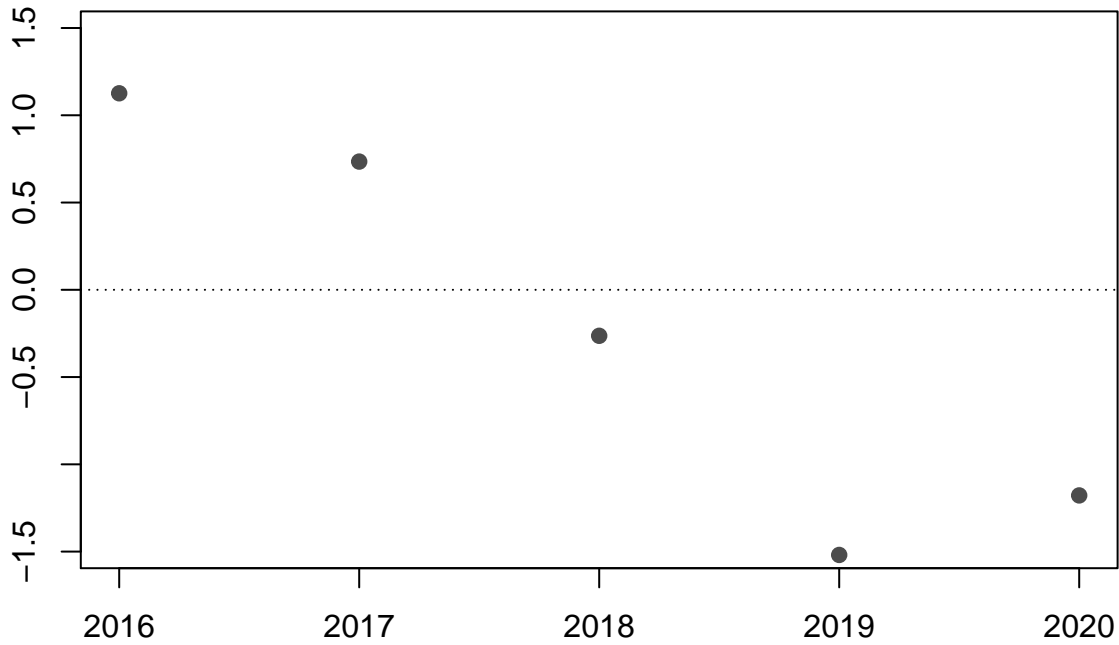




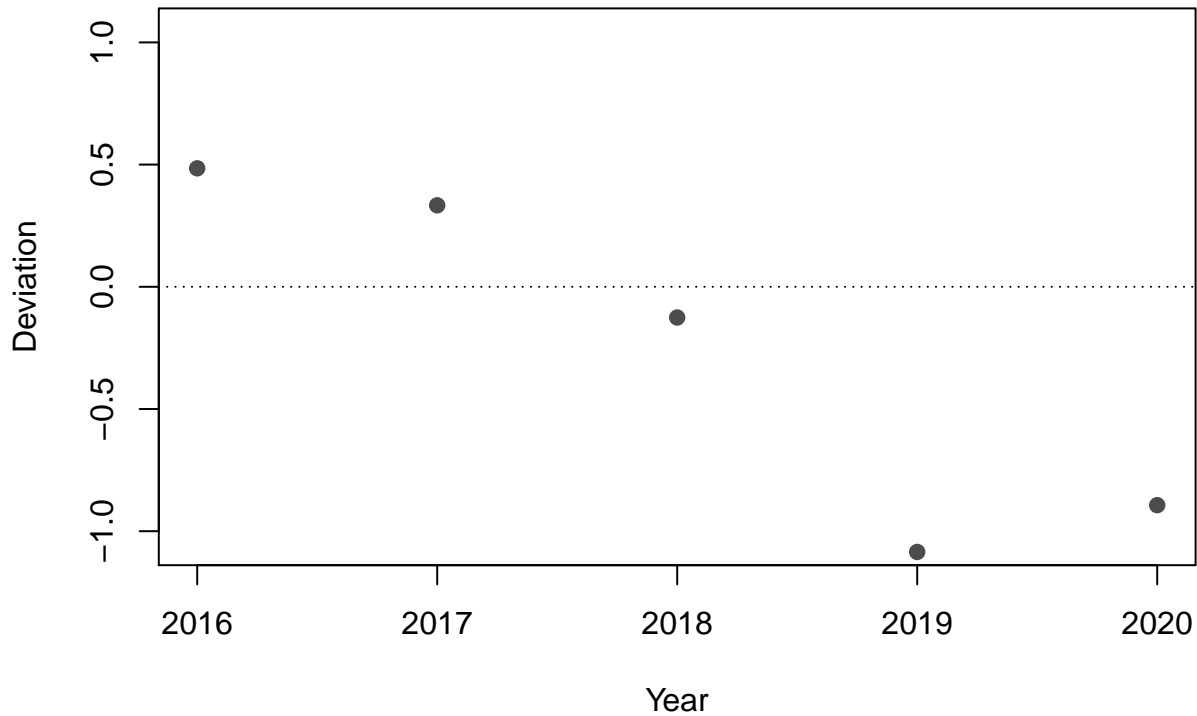


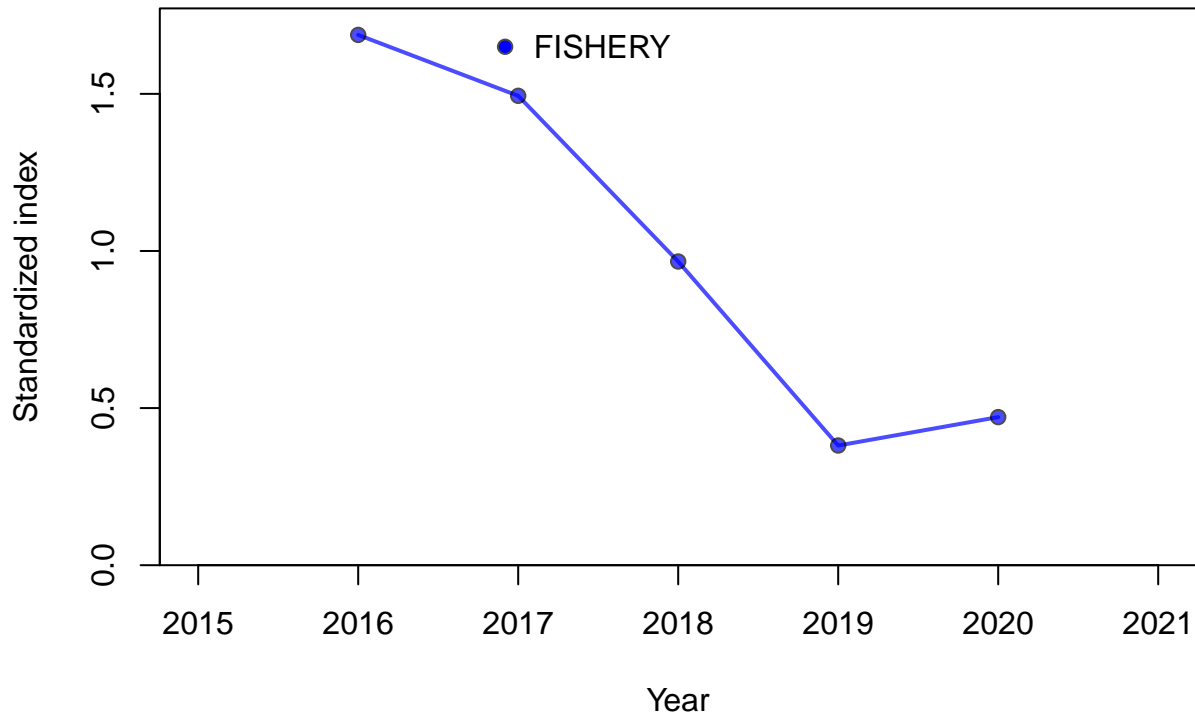


Residual

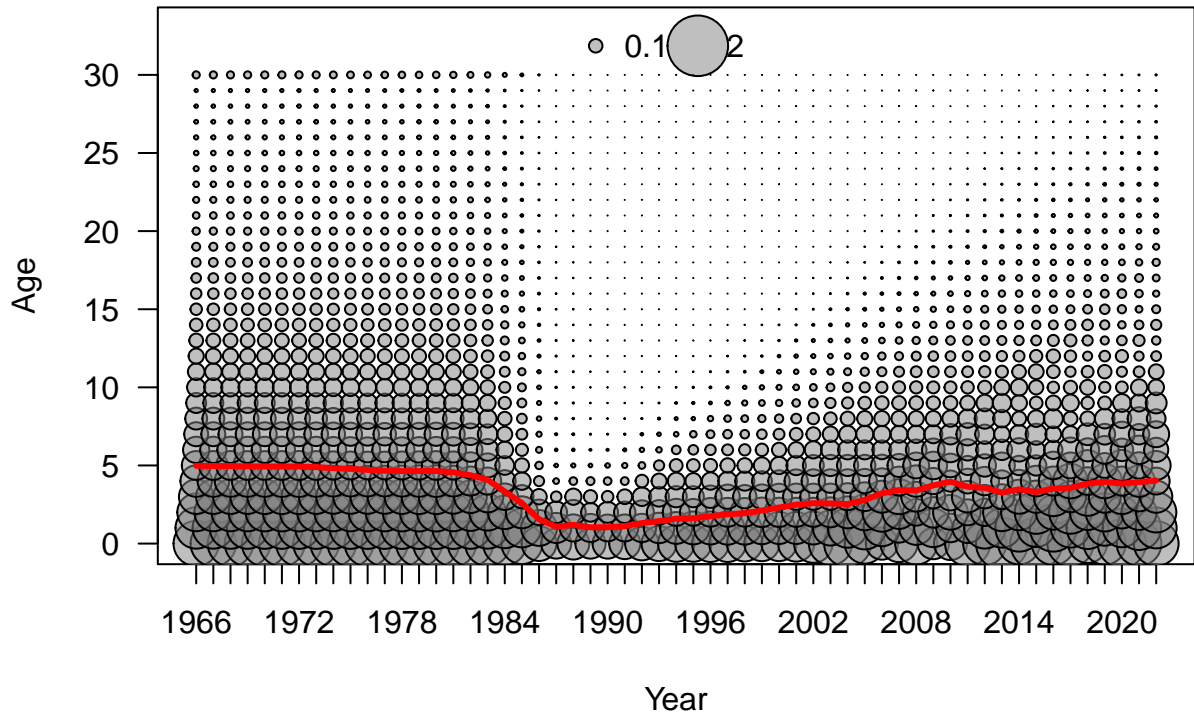


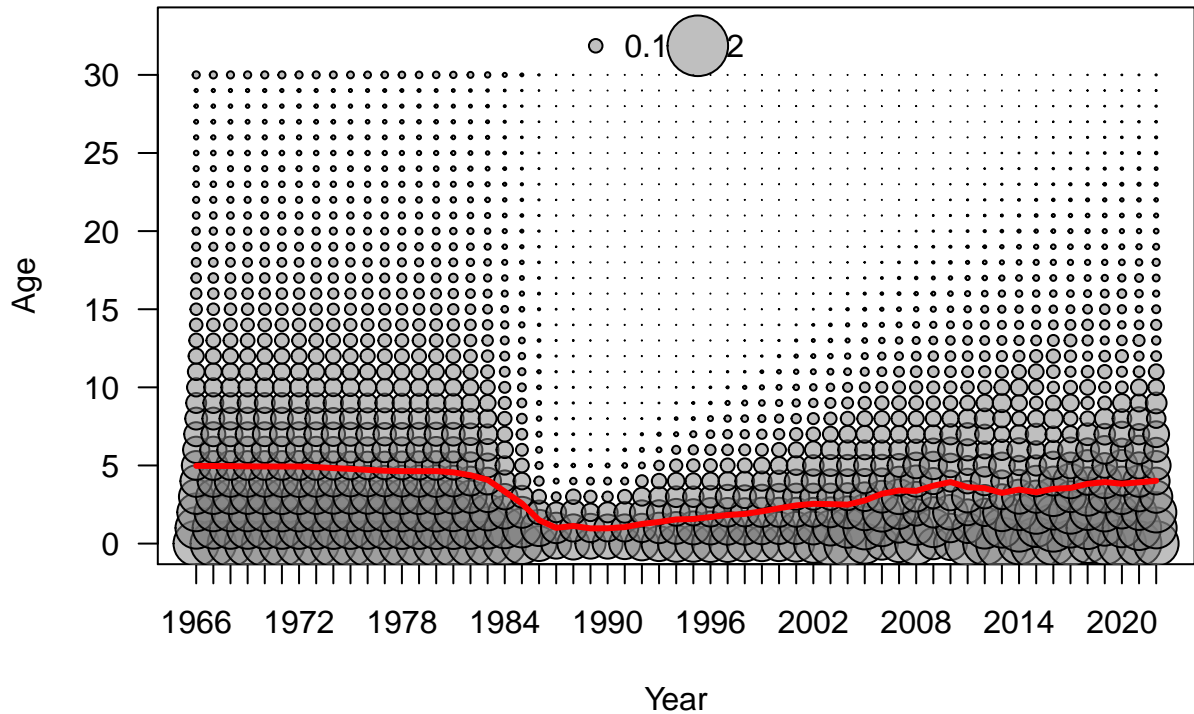
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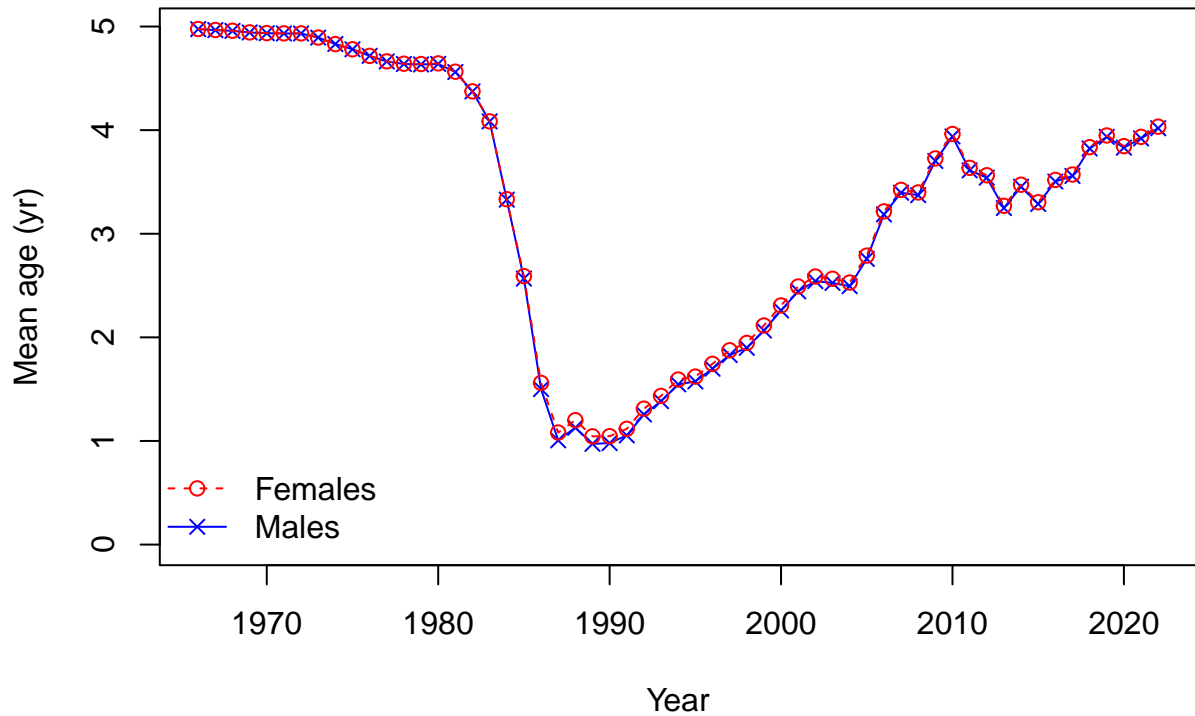


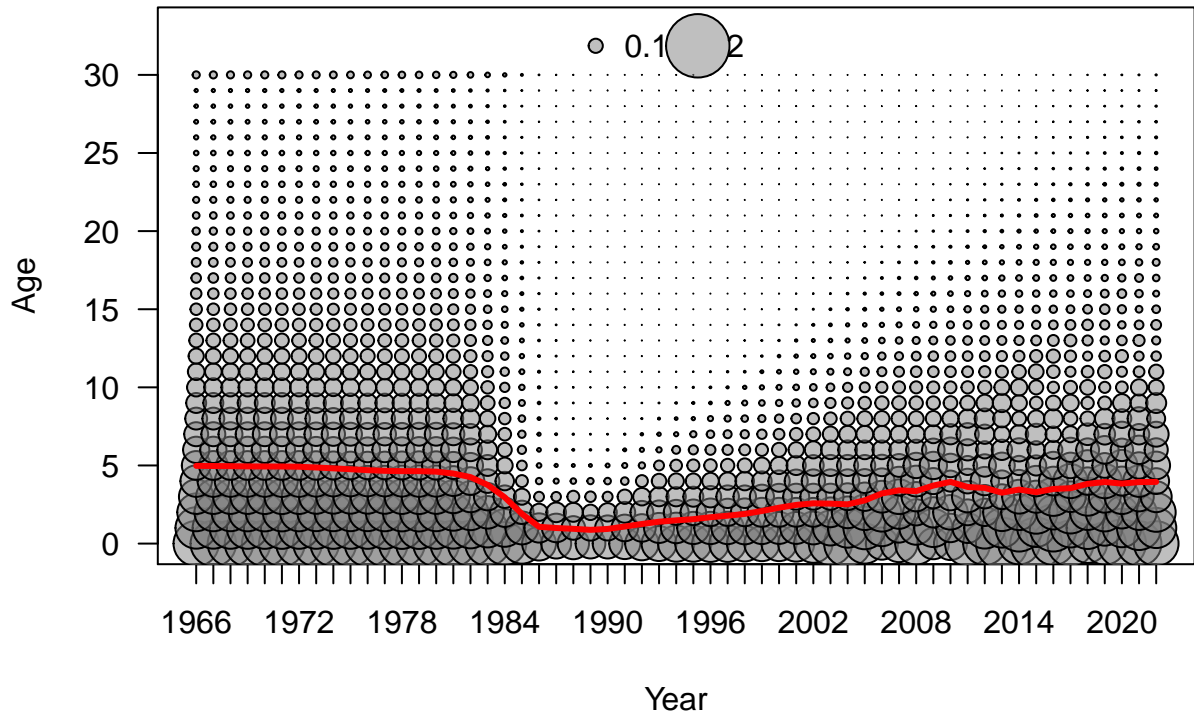


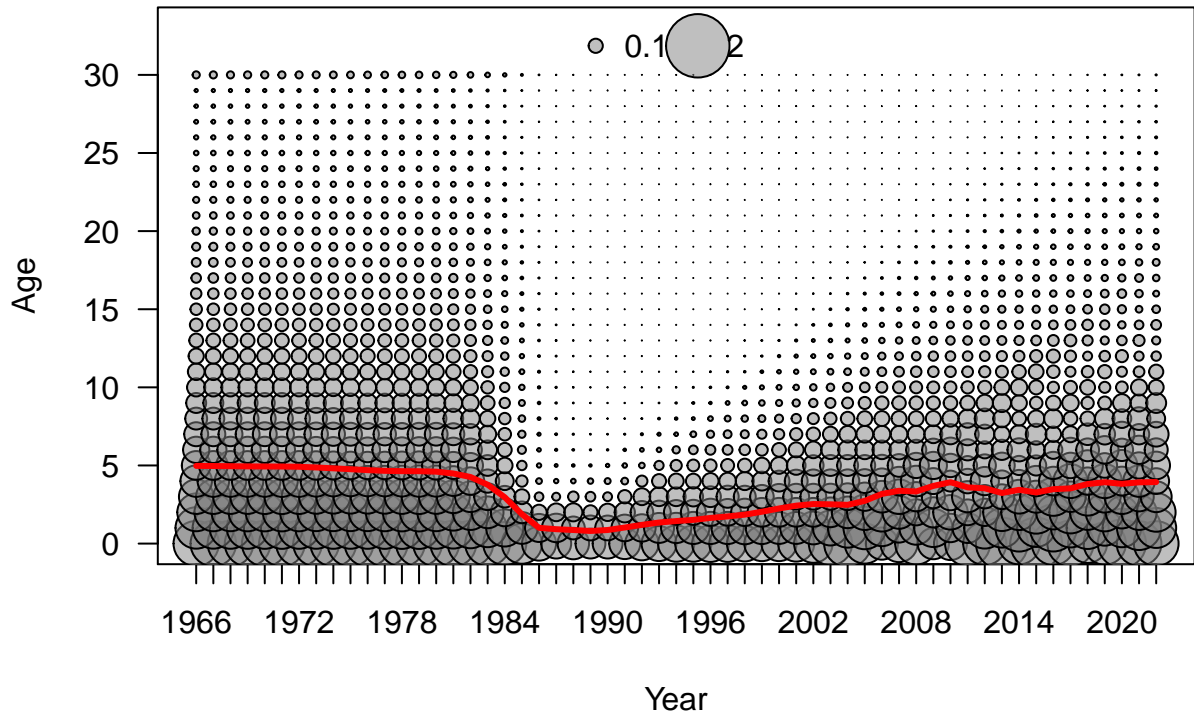


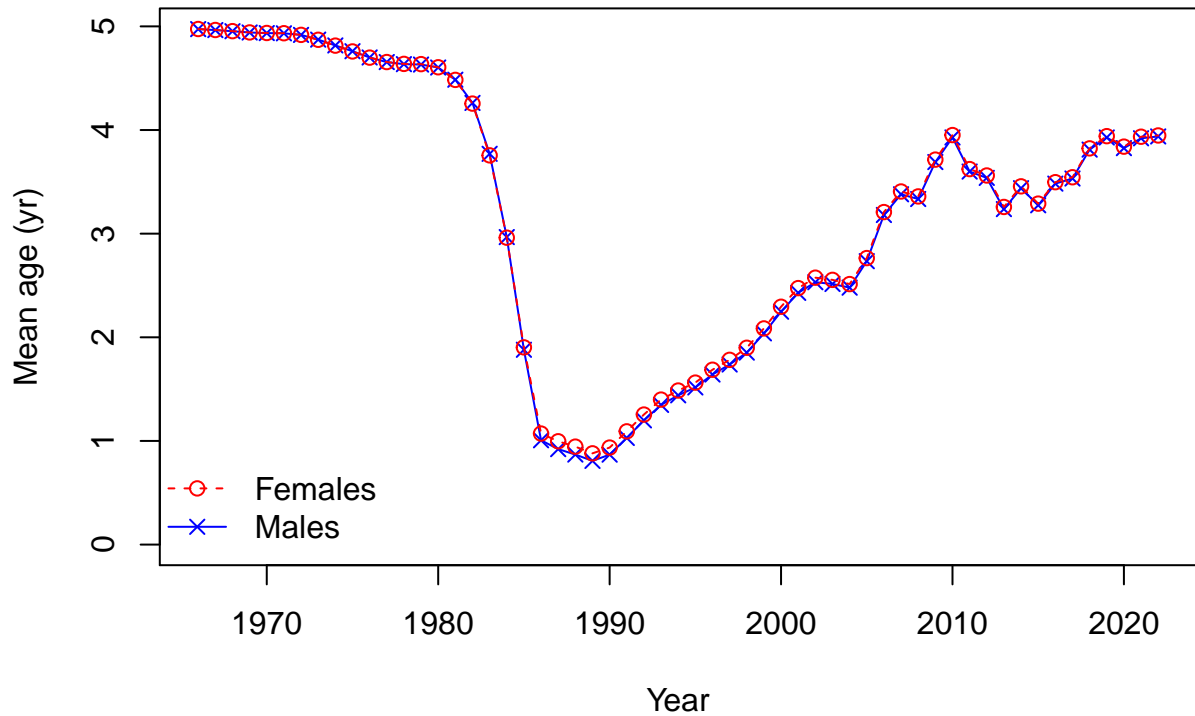


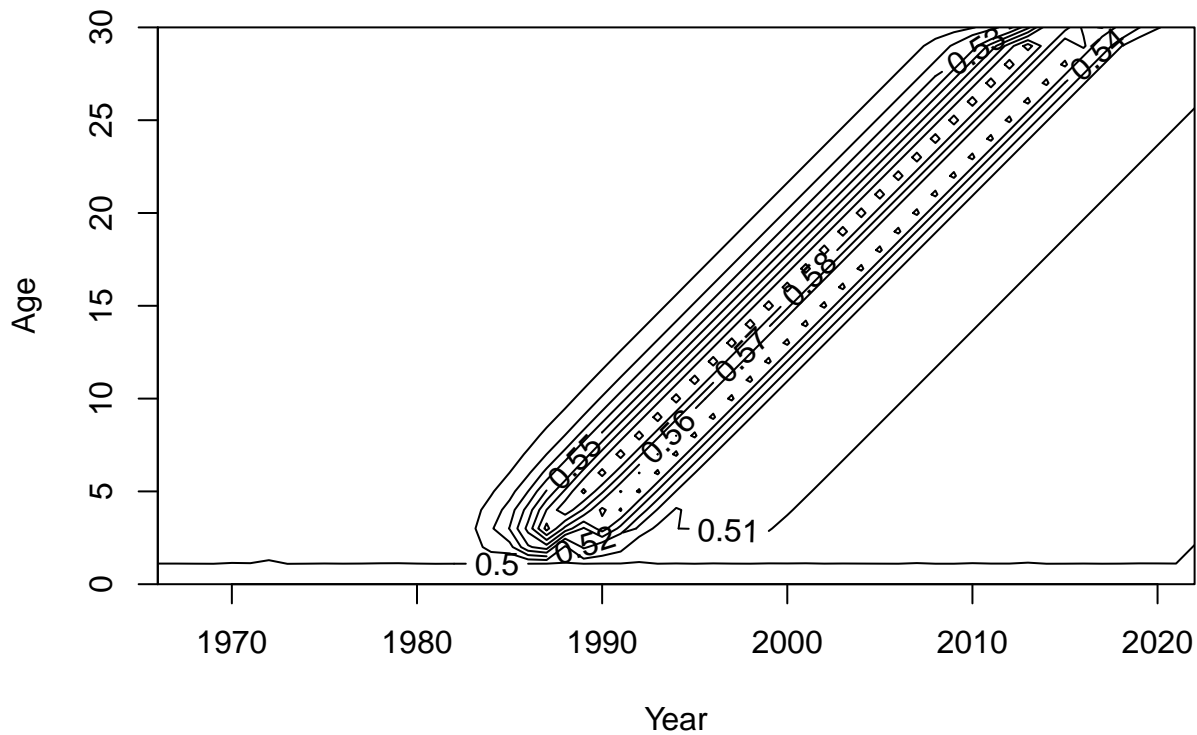


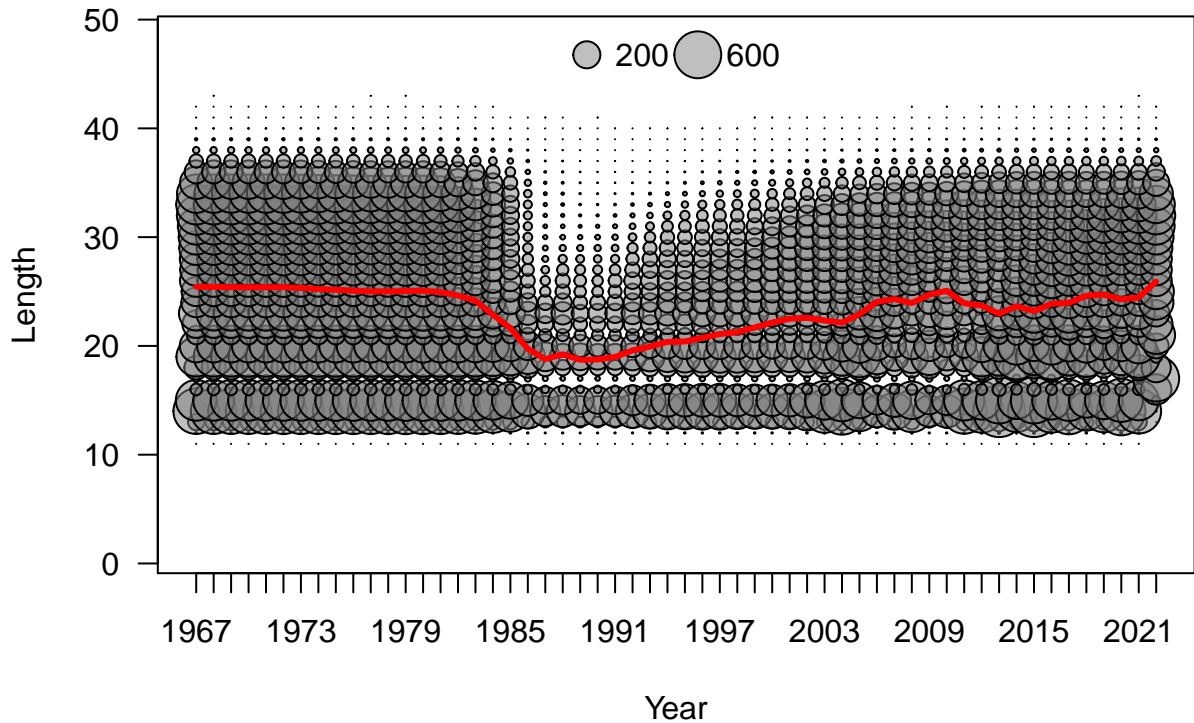




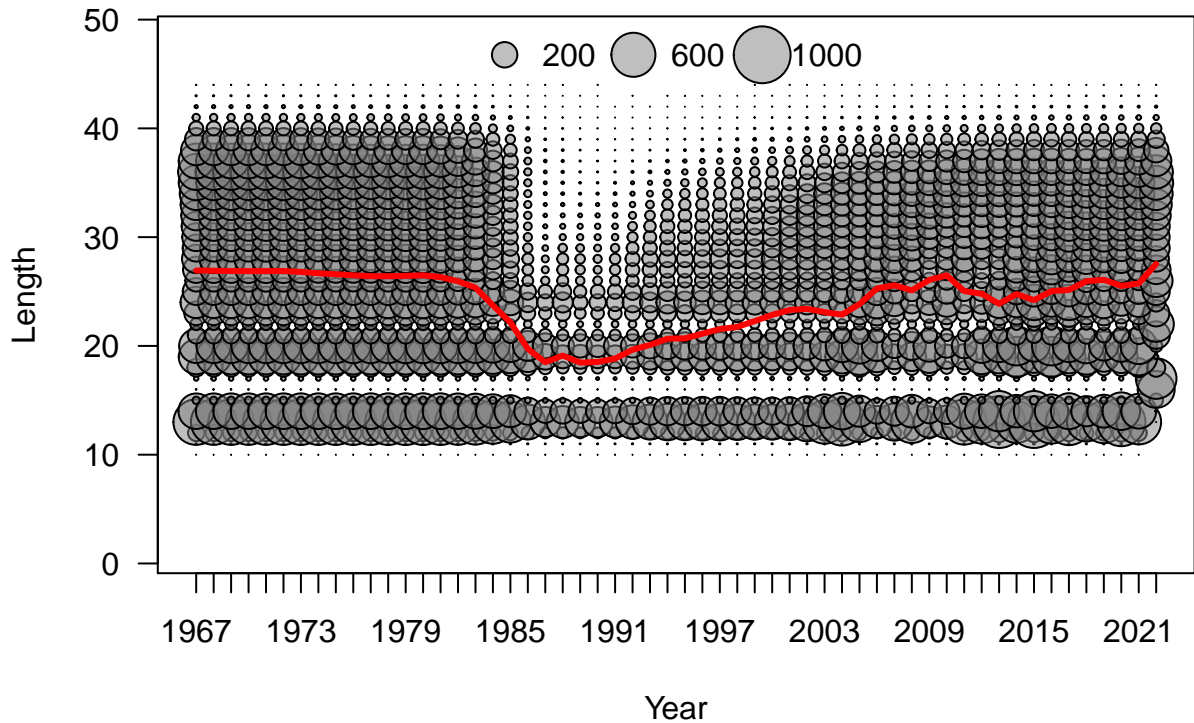


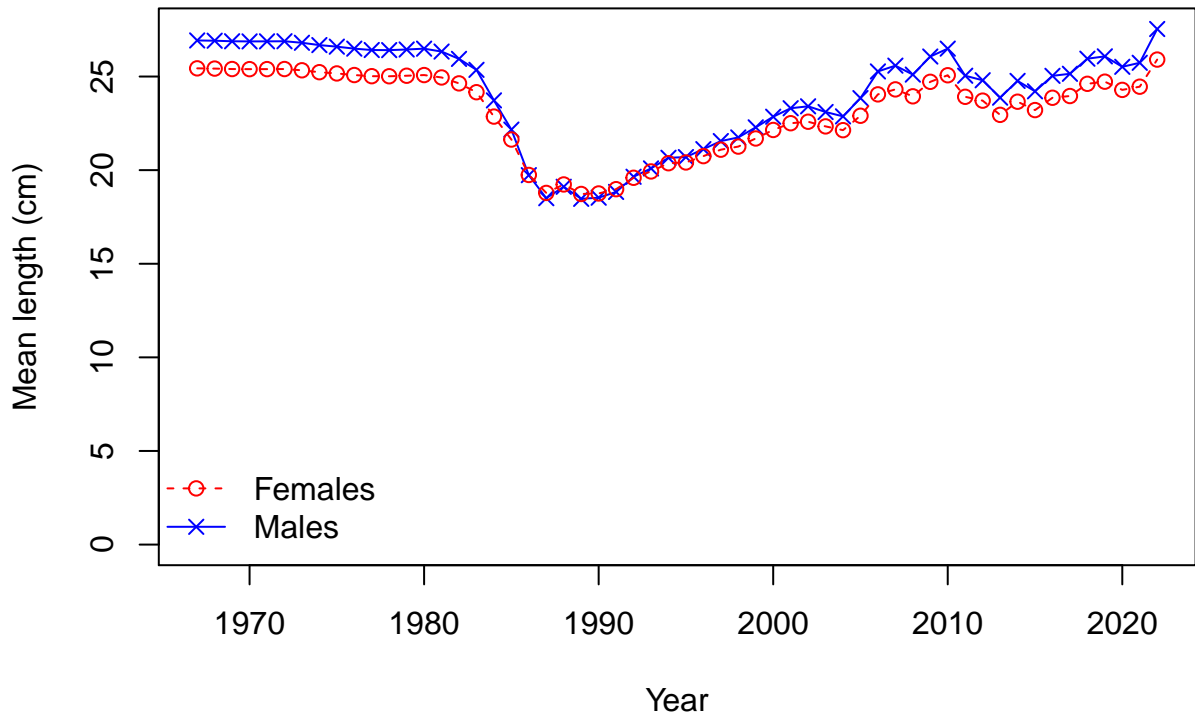


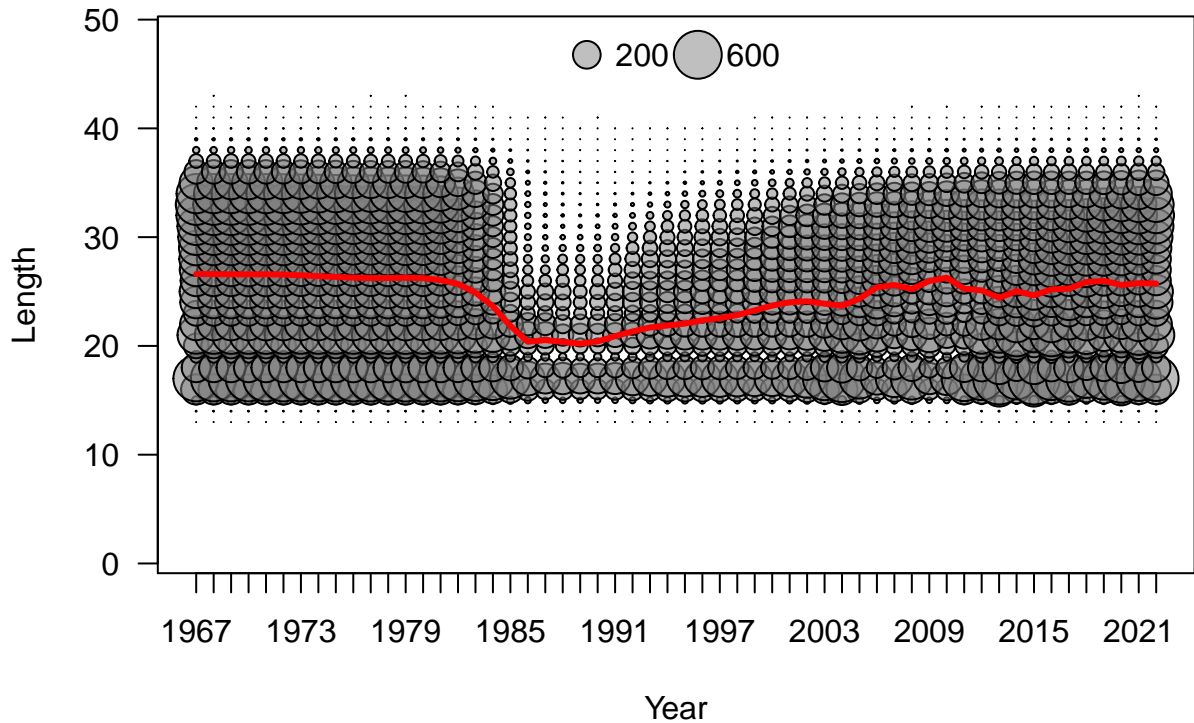


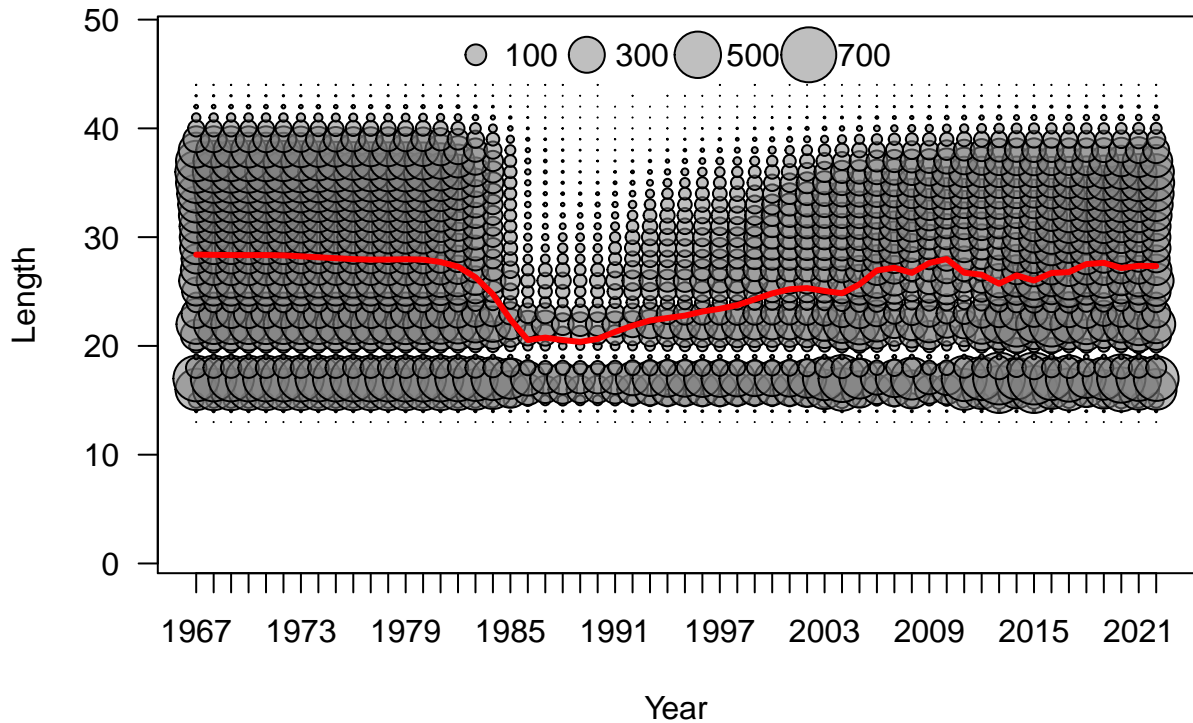


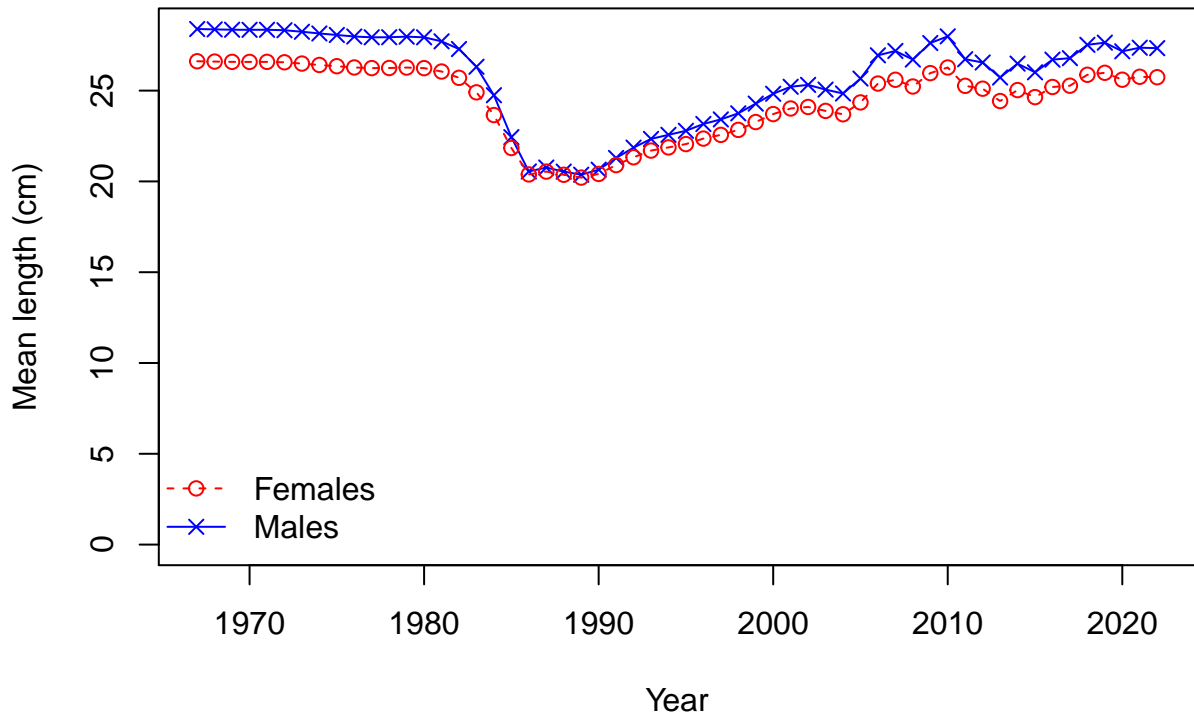


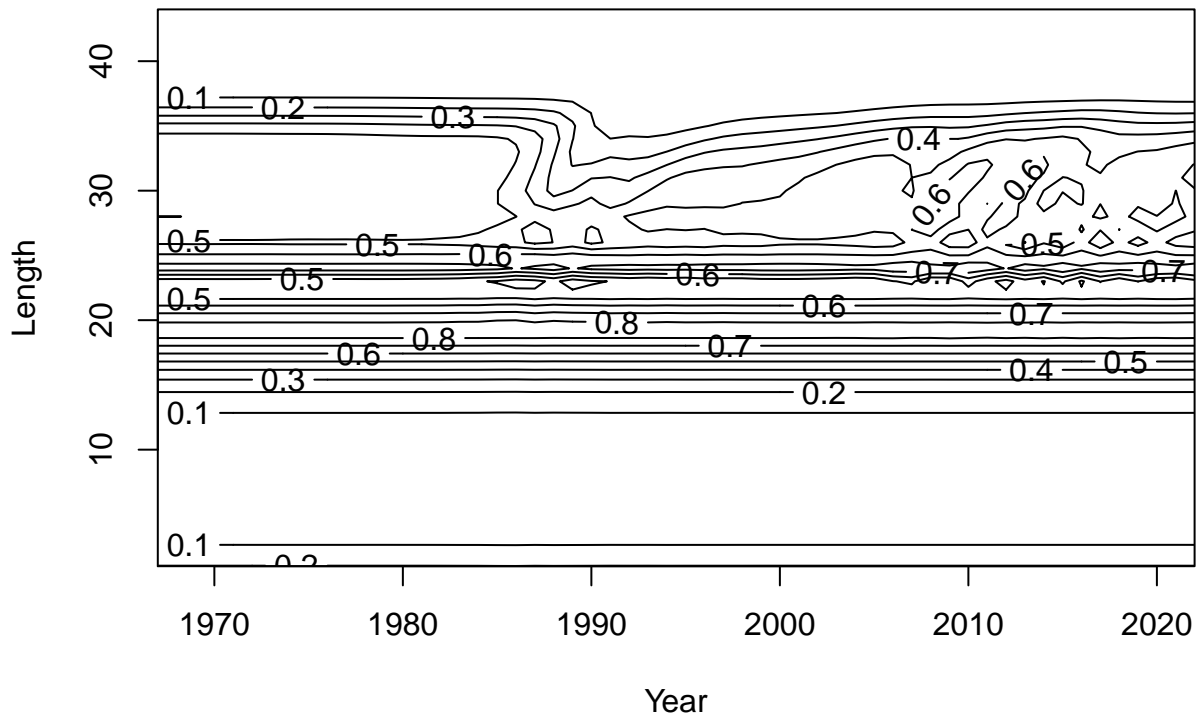


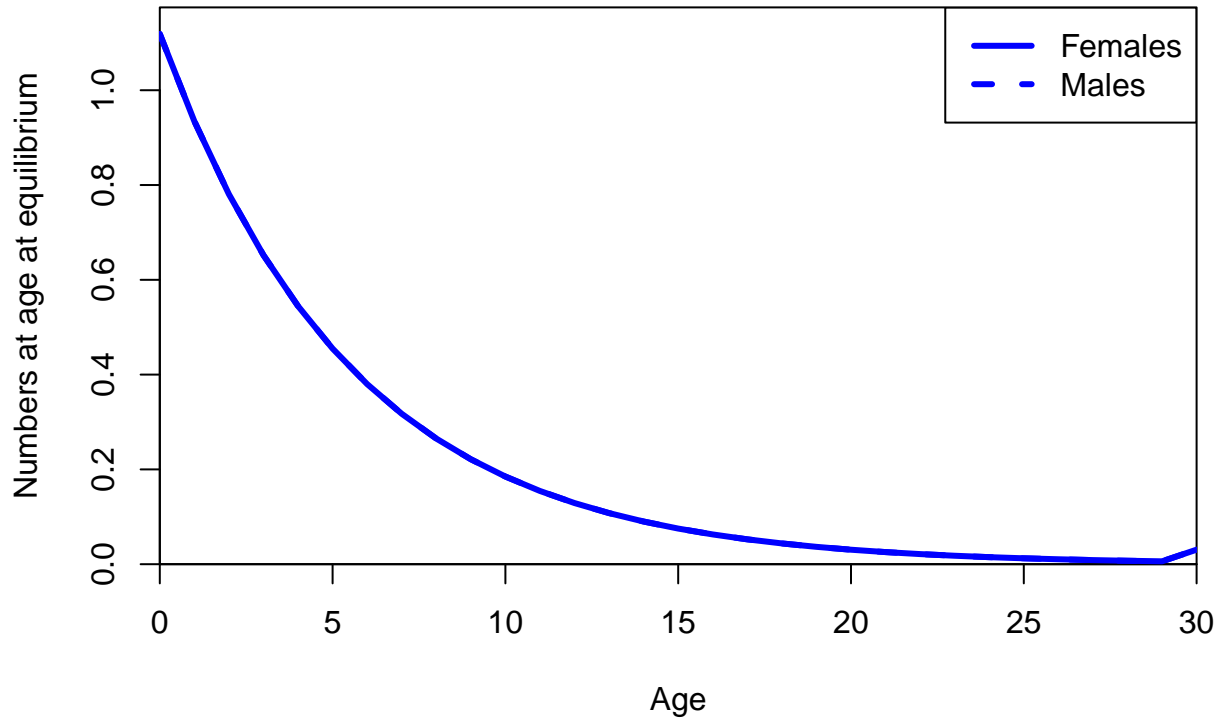












# FISHERY

Sum of N adj.=308

Proportion

0.15

0.10

0.05

0.00

15

20

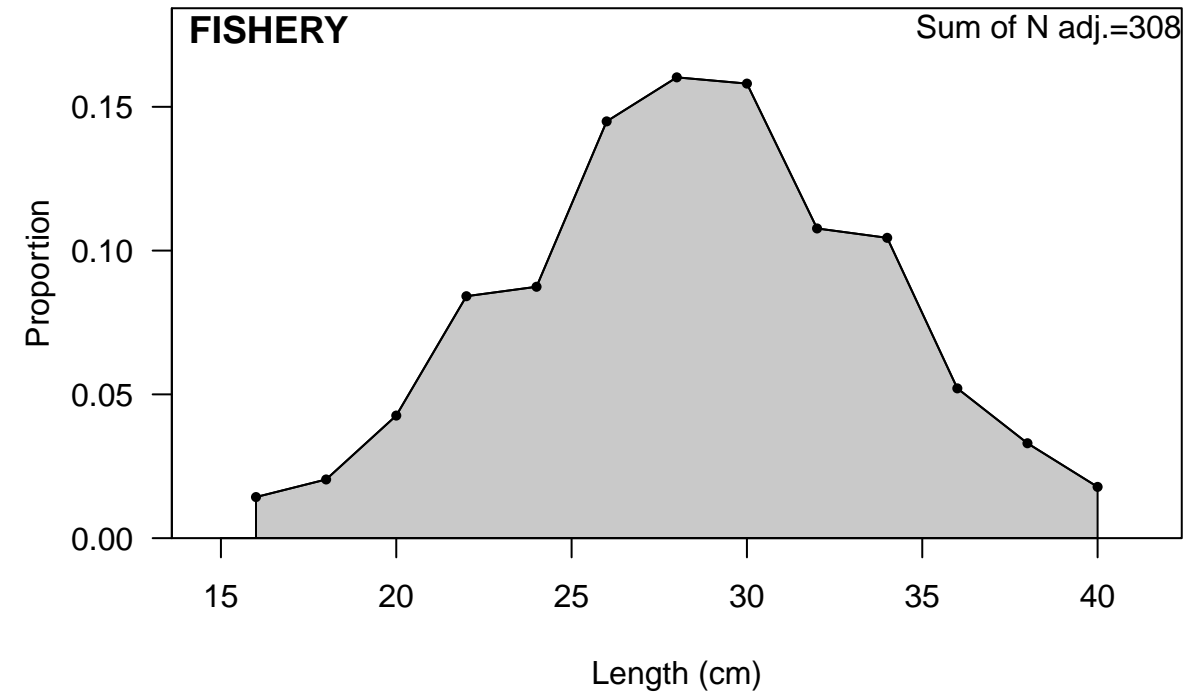
25

30

35

40

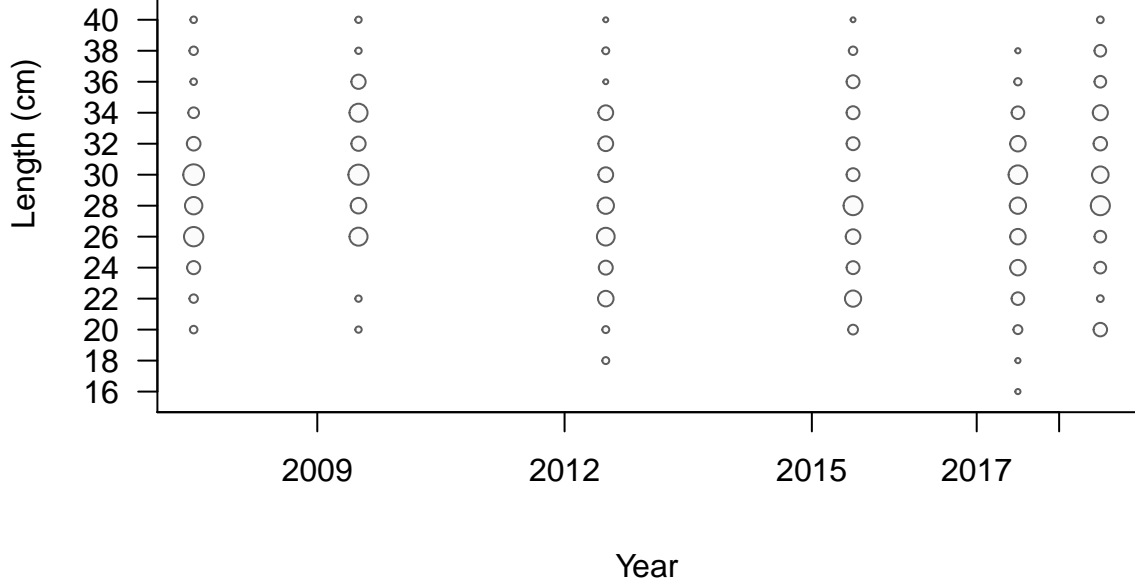
Length (cm)



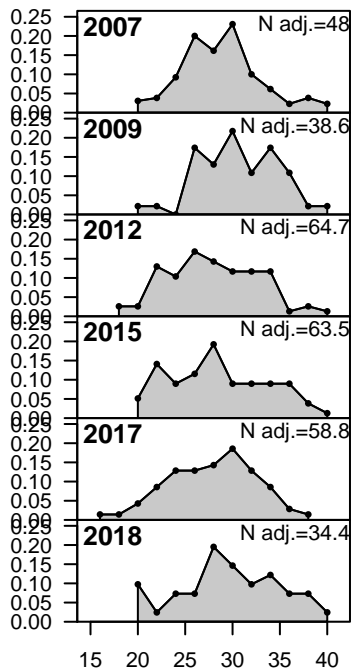


# FISHERY

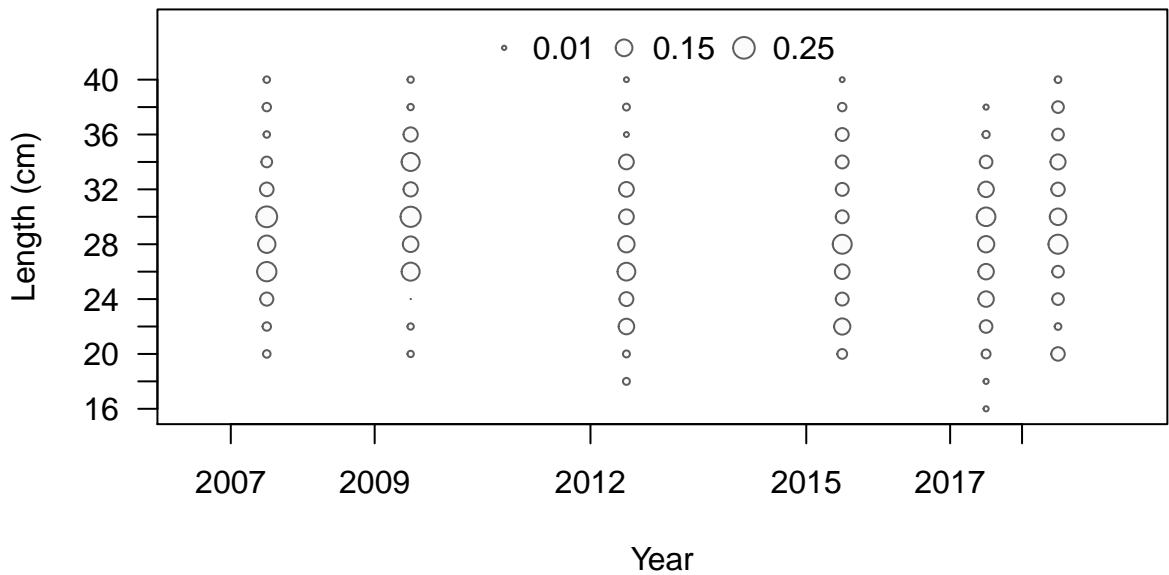
◦ 0.01 ○ 0.15 ○ 0.25



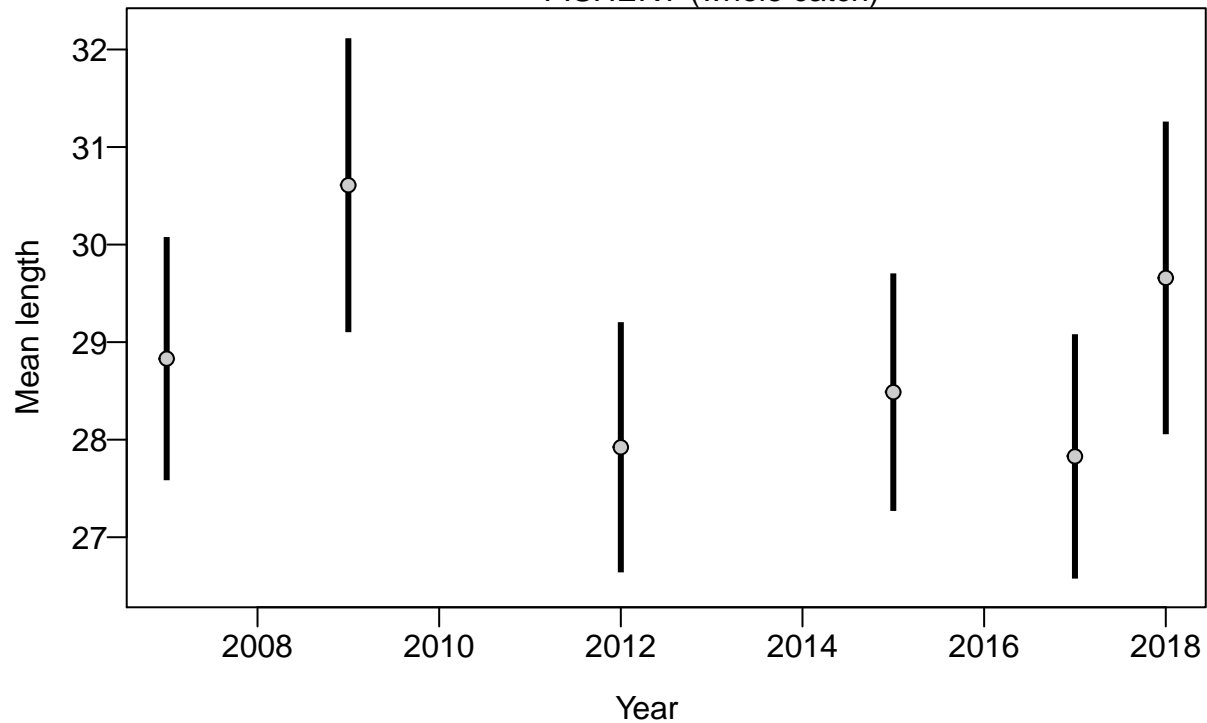
Proportion



Length (cm)

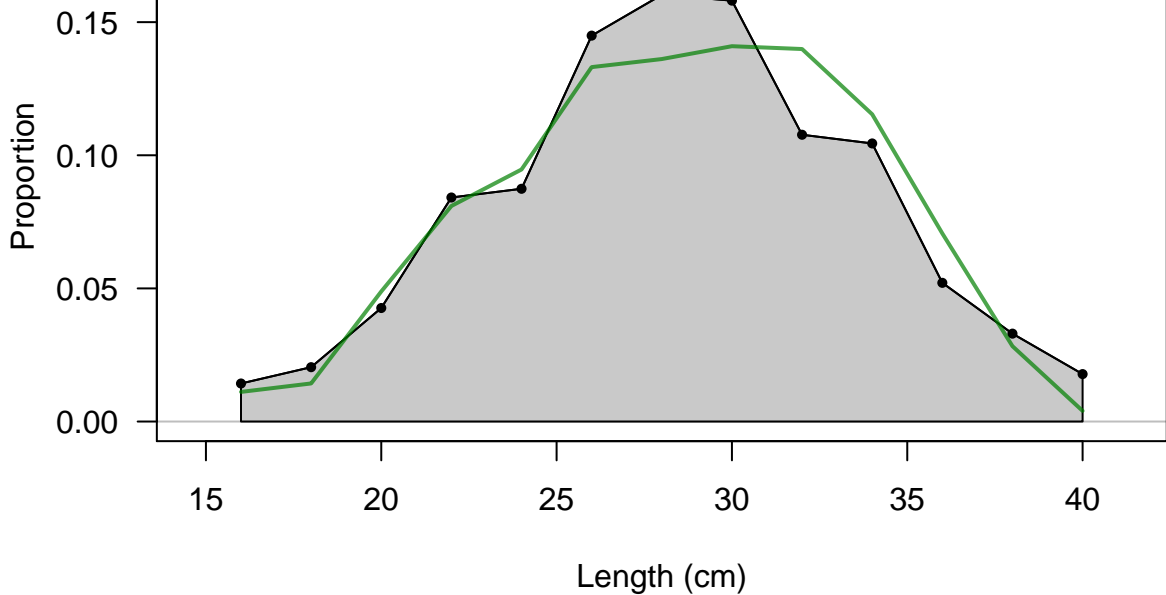


# FISHERY (whole catch)



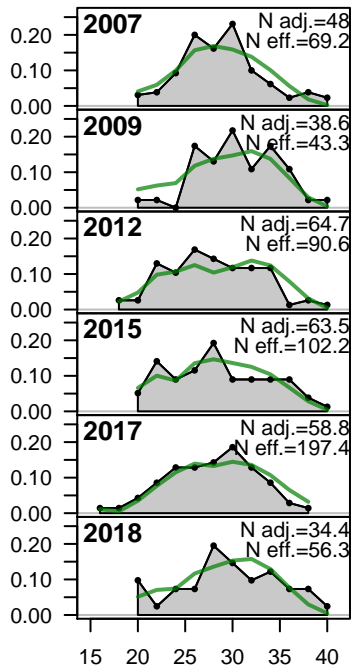
# FISHERY

Sum of N adj.=308  
Sum of N eff.=559

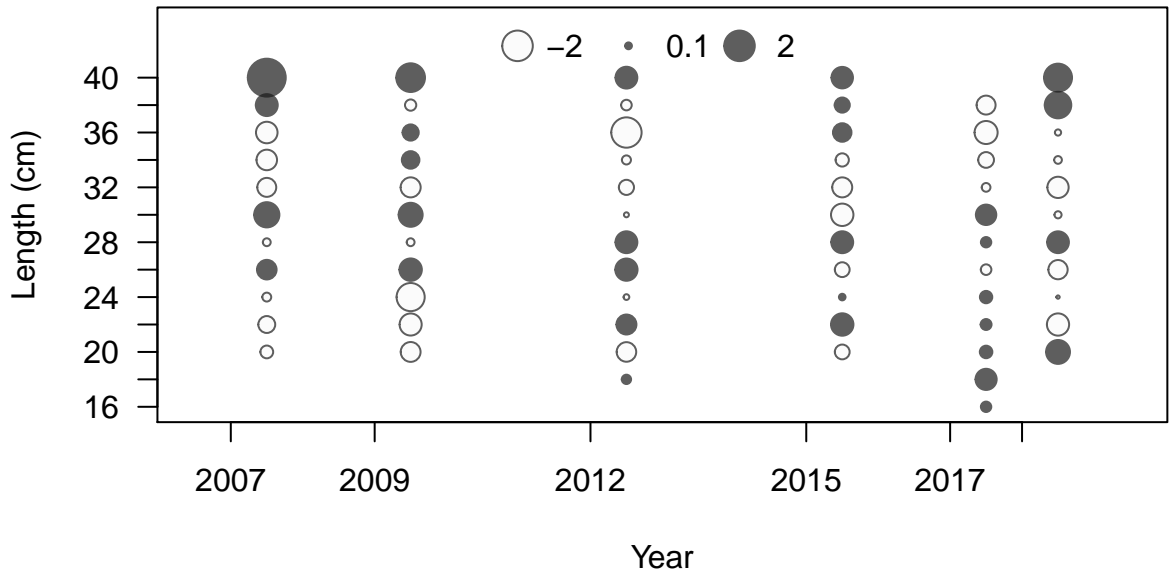




Proportion

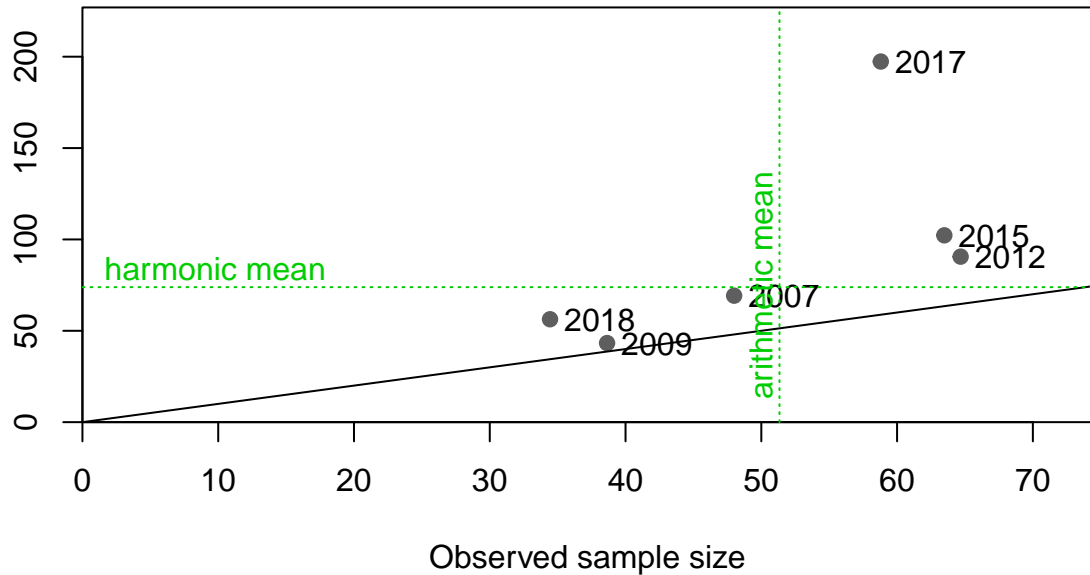


Length (cm)

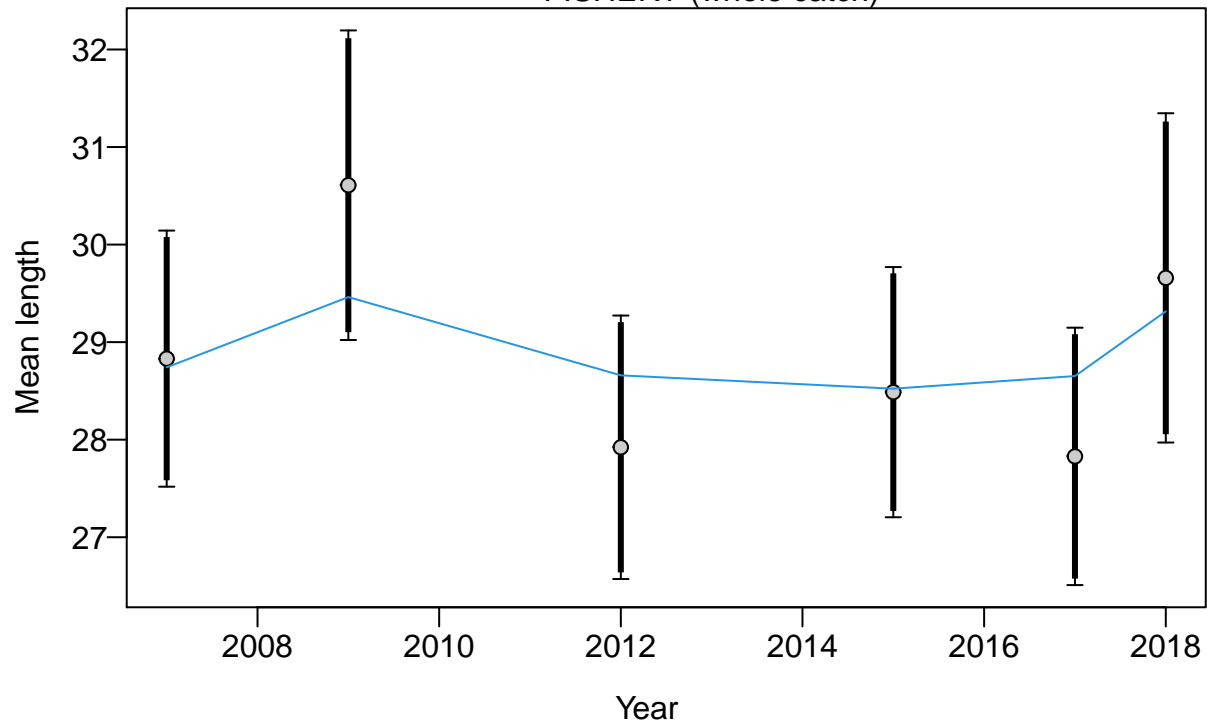


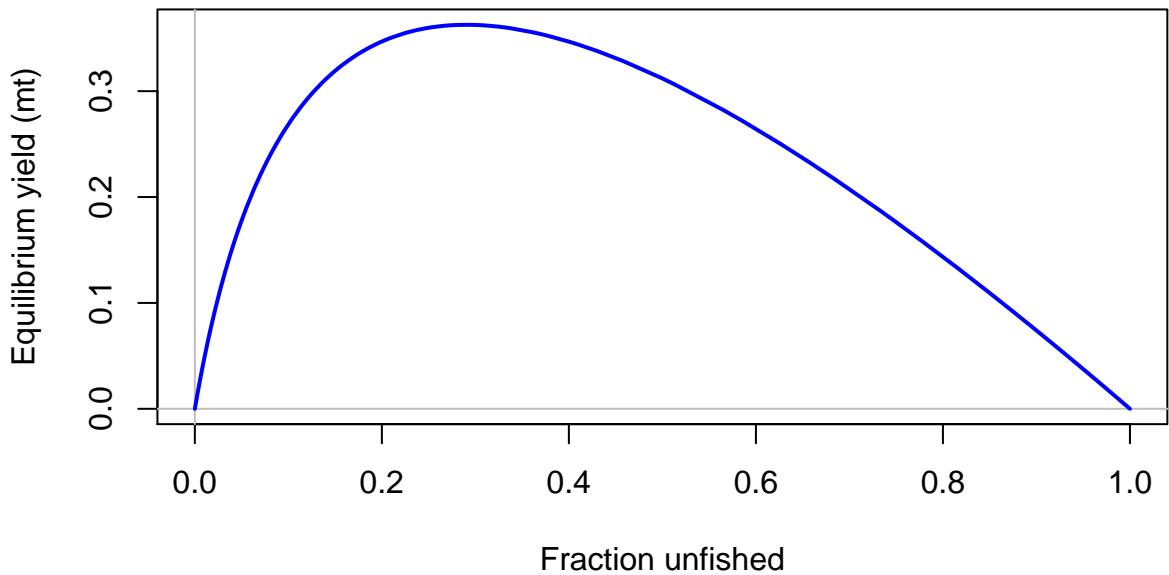


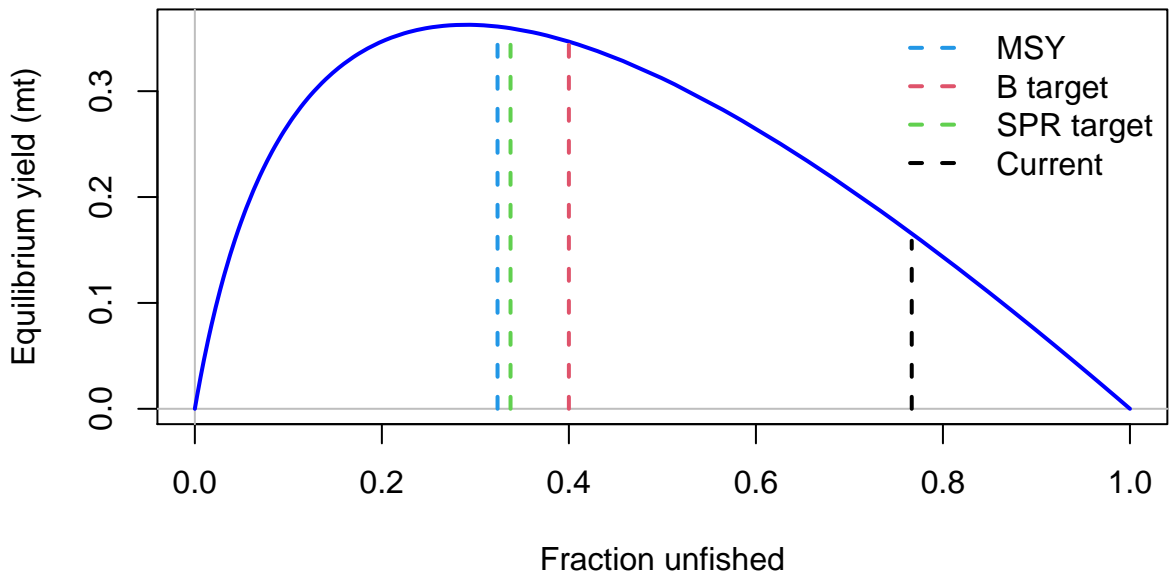
Effective sample size



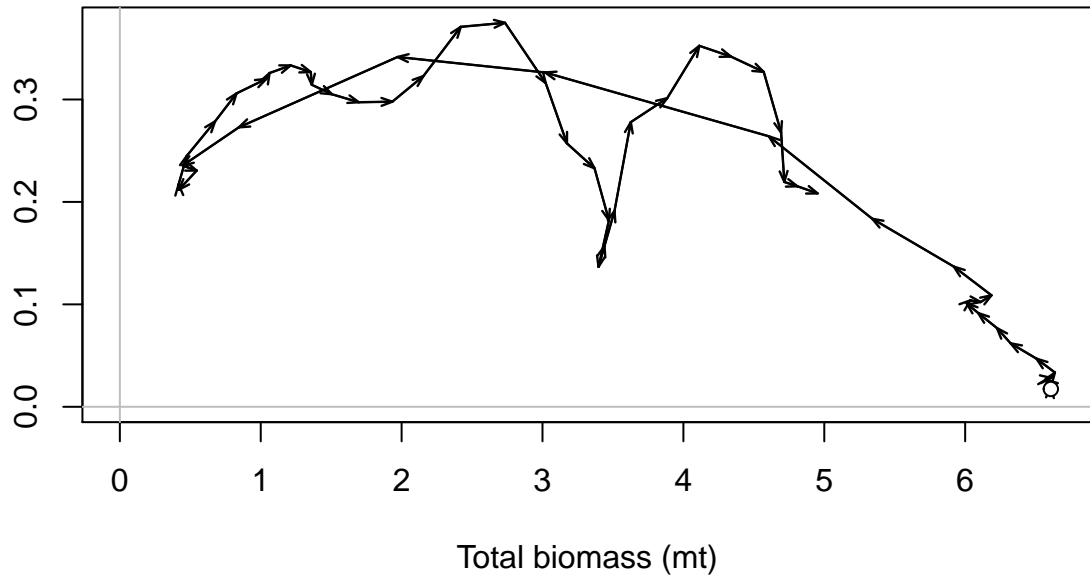
FISHERY (whole catch)

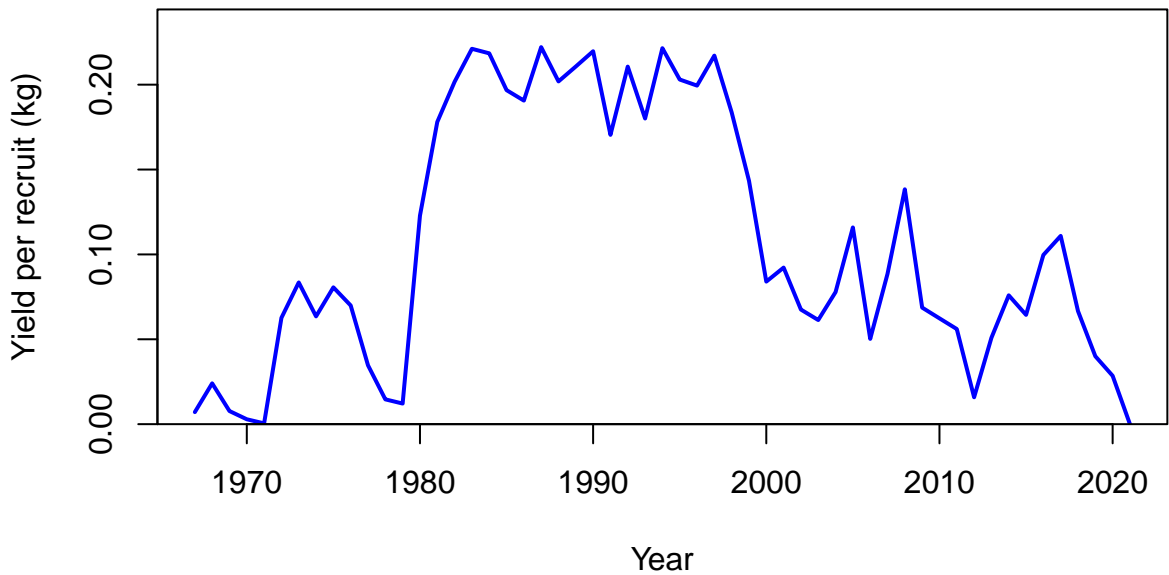


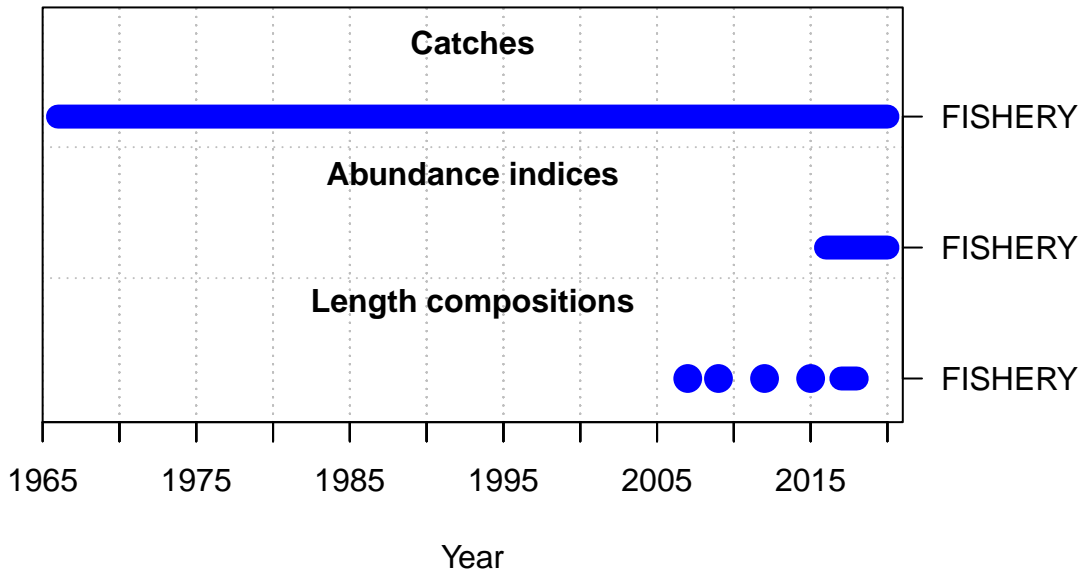


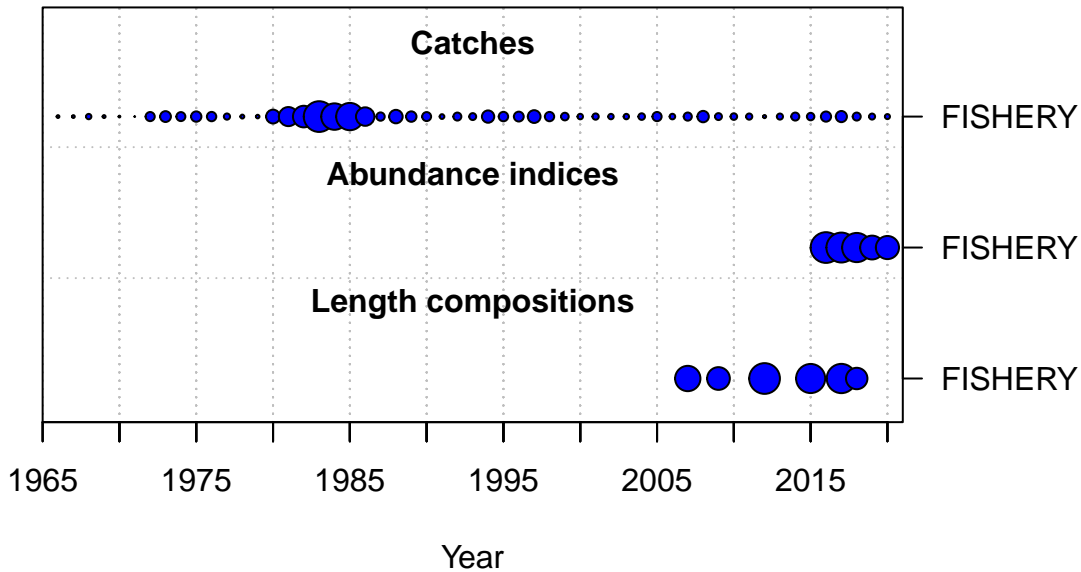


Surplus production (mt)



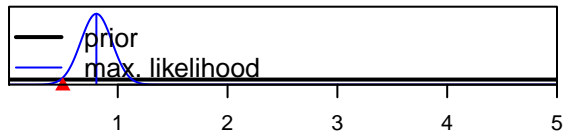




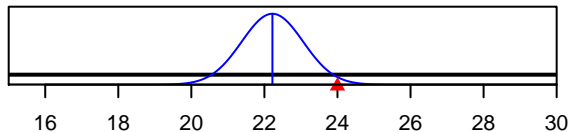




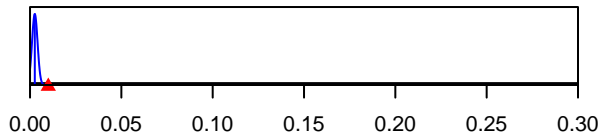
SR\_LN(R0)



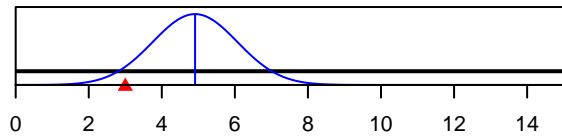
Size\_inflection\_FISHERY(1)



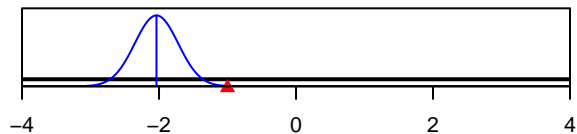
InitF\_seas\_1\_flt\_1FISHERY



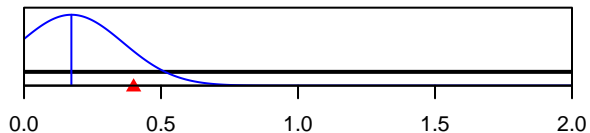
Size\_95%width\_FISHERY(1)



LnQ\_base\_FISHERY(1)



Q\_extraSD\_FISHERY(1)



Parameter value