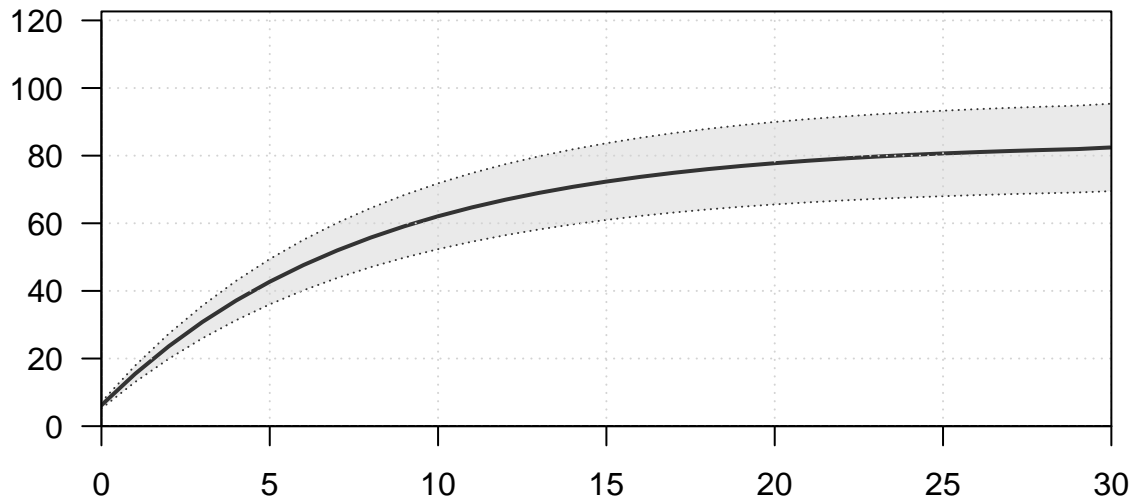
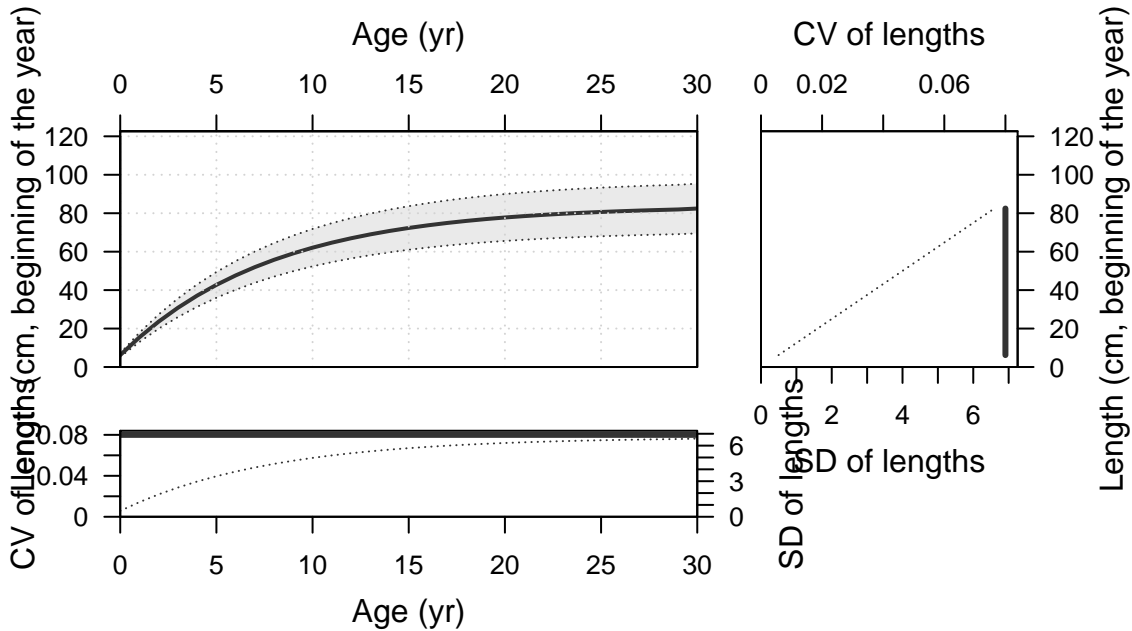


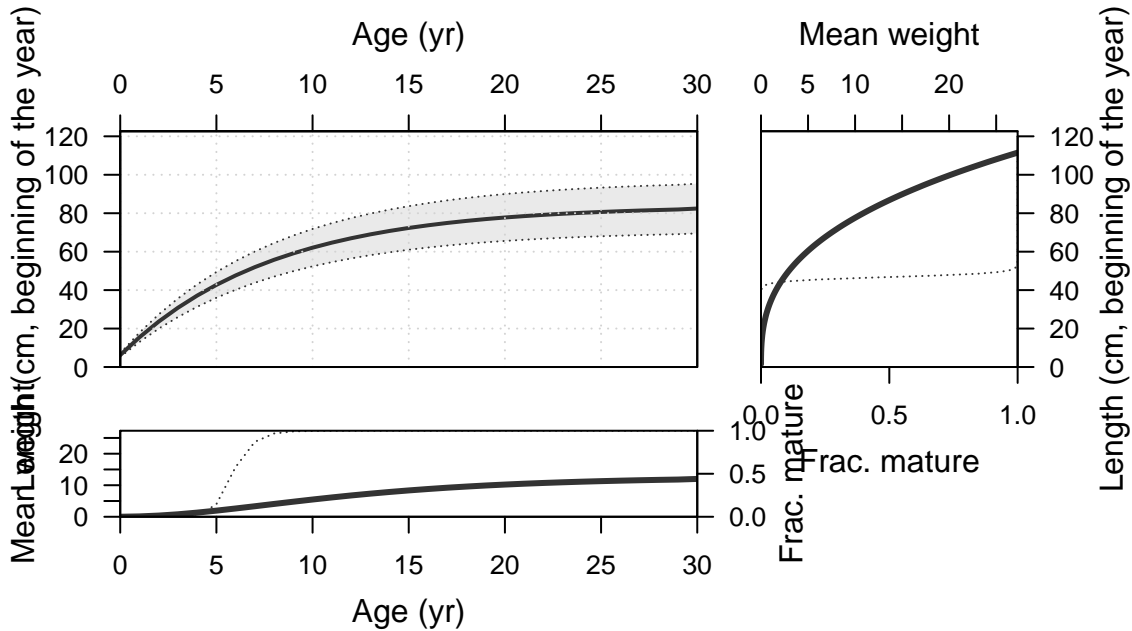
Plots created using the 'r4ss' package in R  
Stock Synthesis version: 3.30.19.0  
StartTime: Wed Jul 27 10:16:06 2022  
Data\_File: data.ss  
Control\_File: control.ss

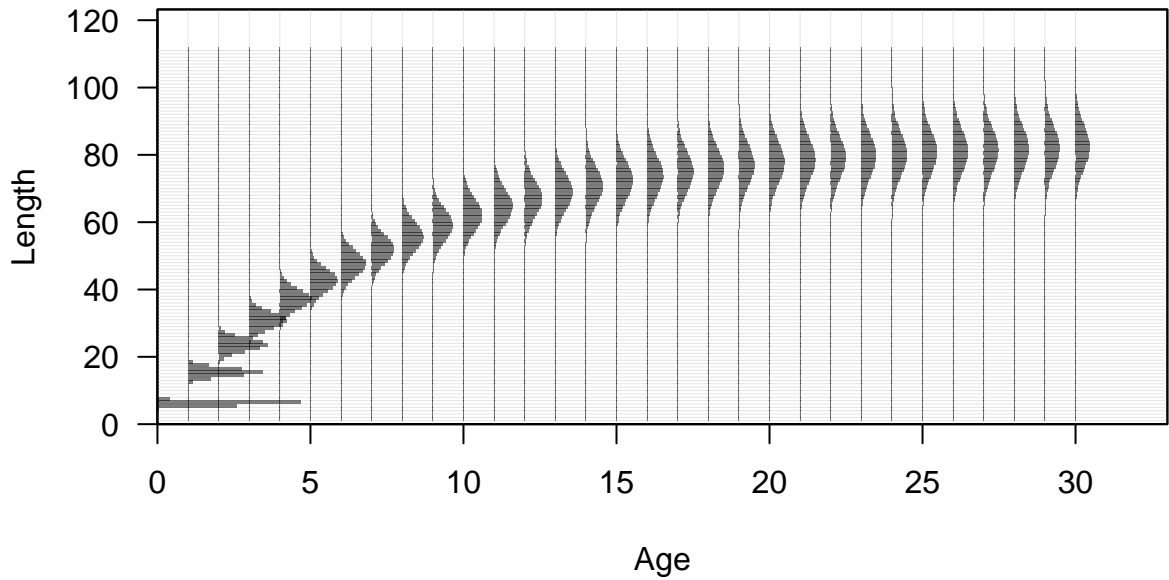
Length (cm, beginning of the year)

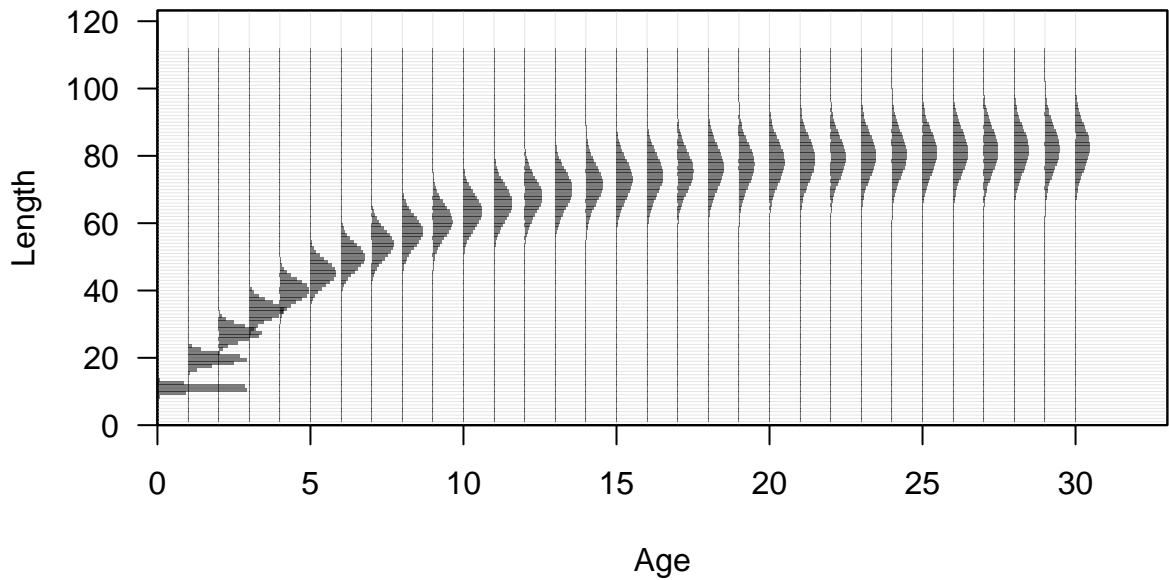


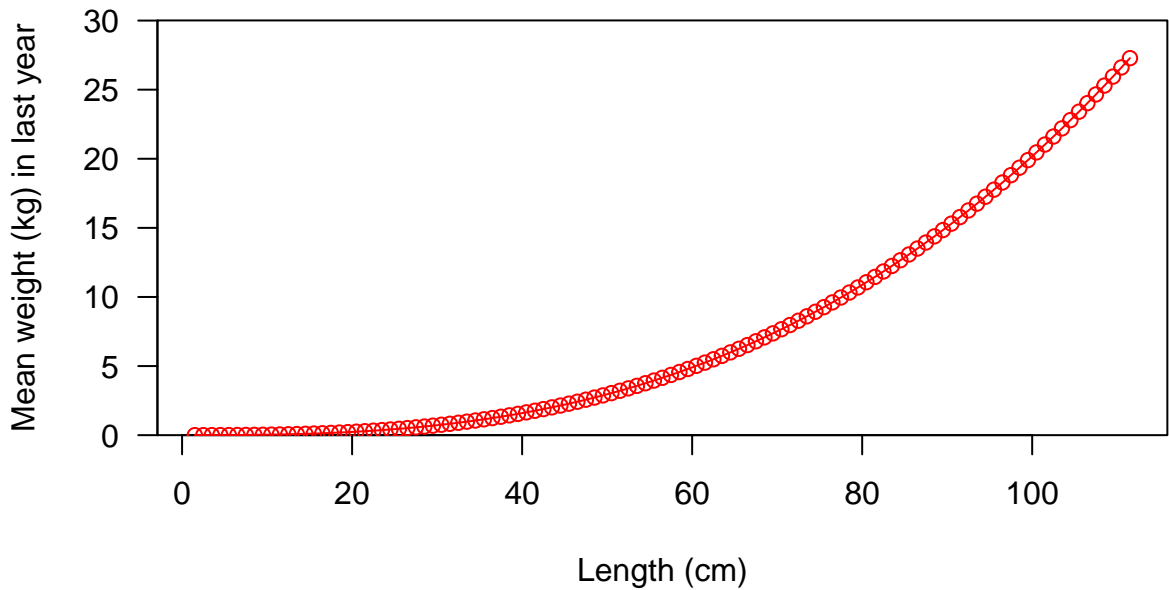
Age (yr)

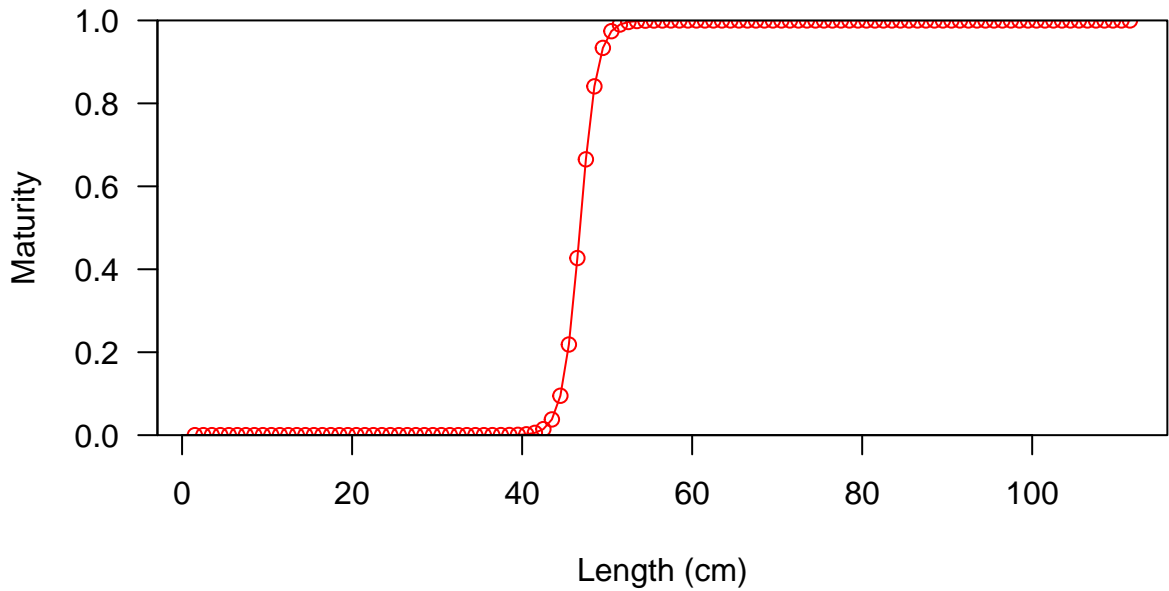




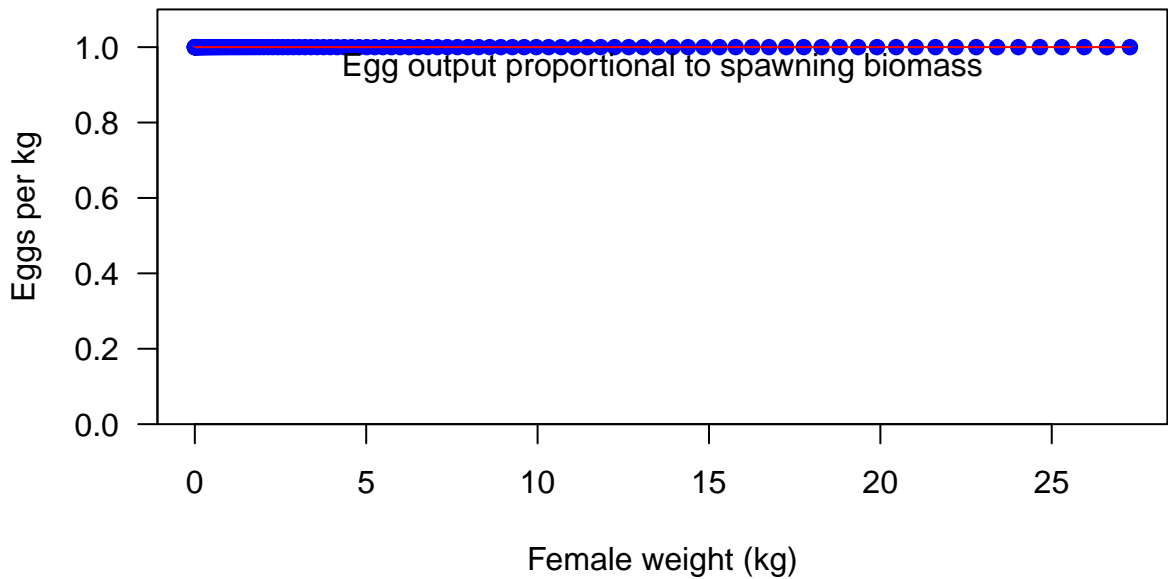


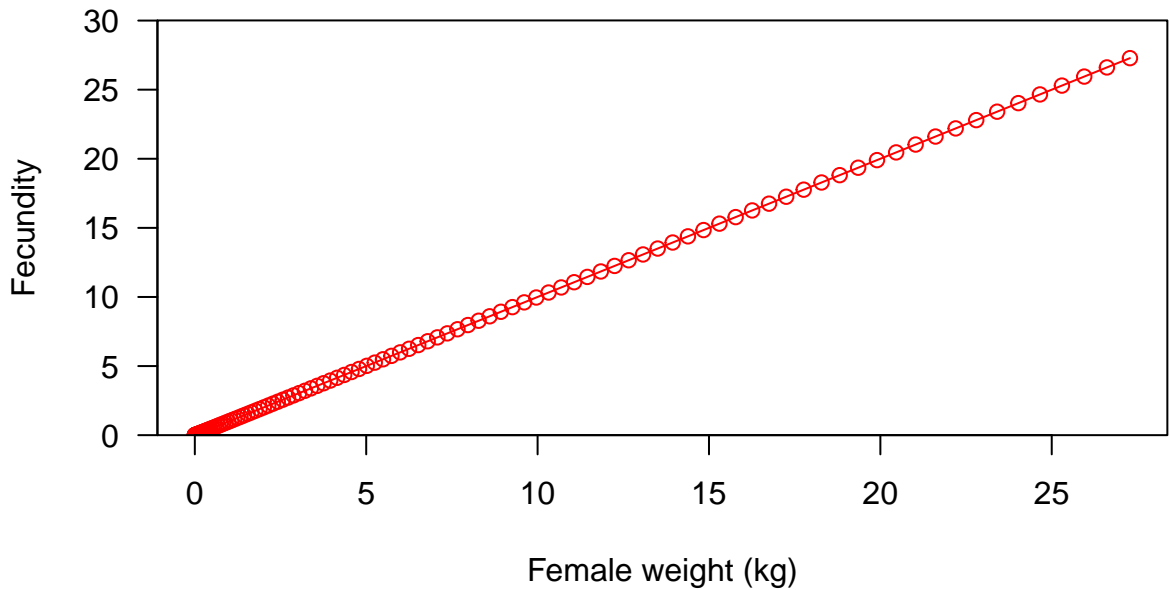












Fecundity

30  
25  
20  
15  
10  
5  
0

0

20

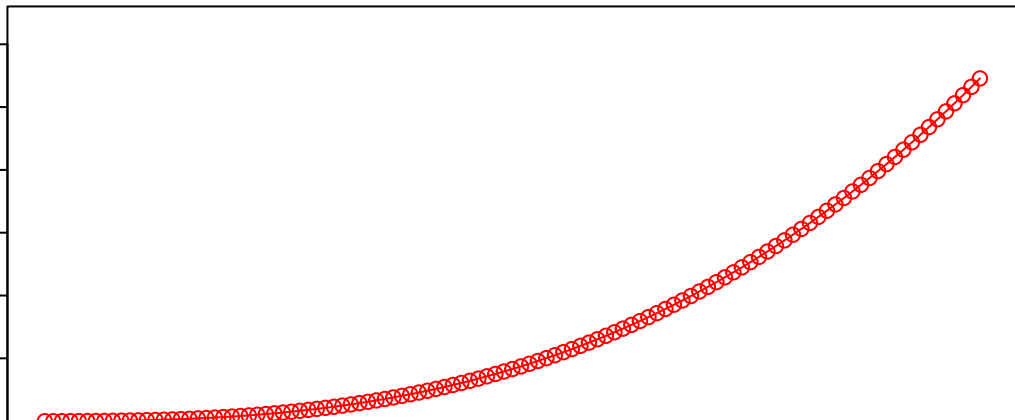
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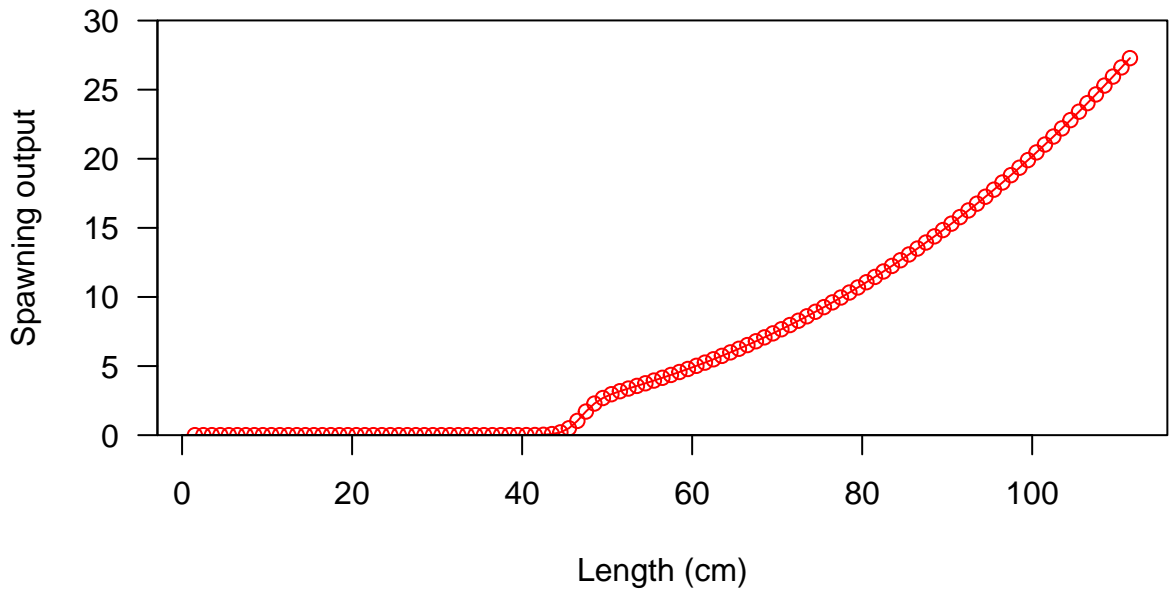
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80

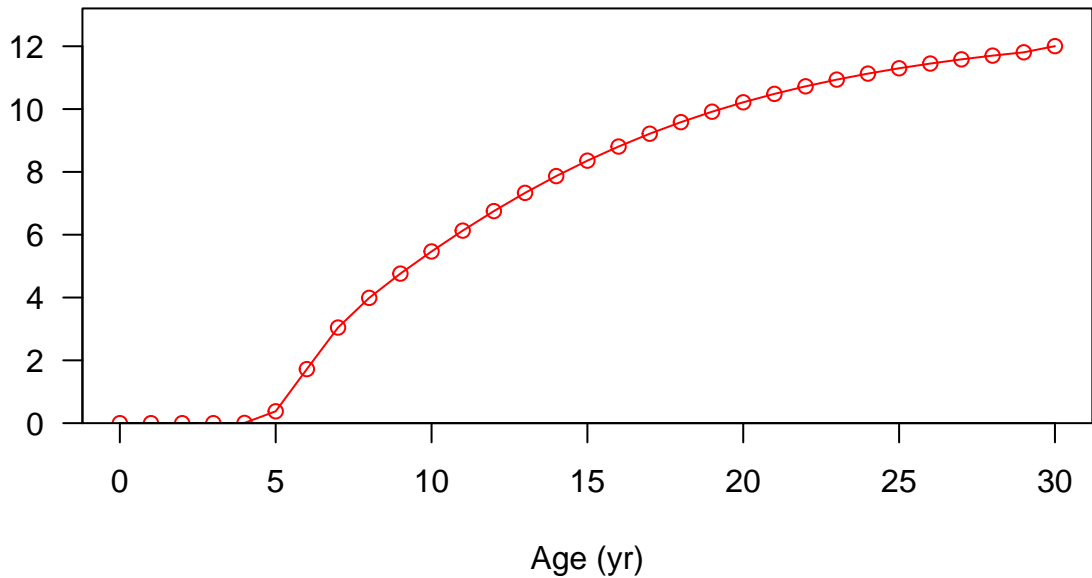
100

Female length (cm)

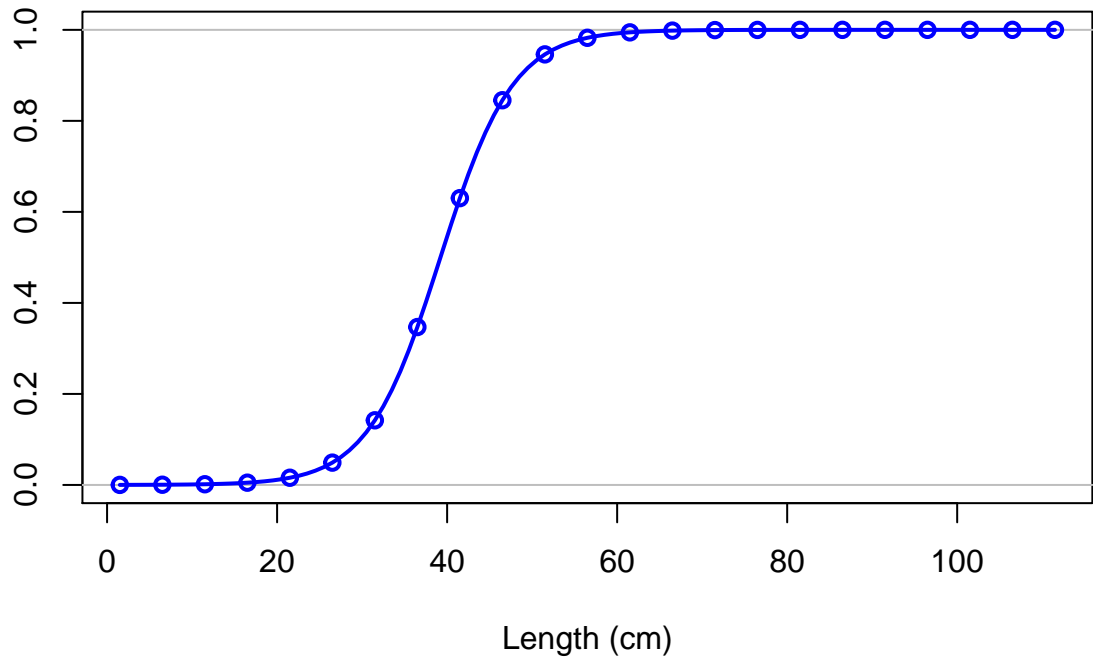




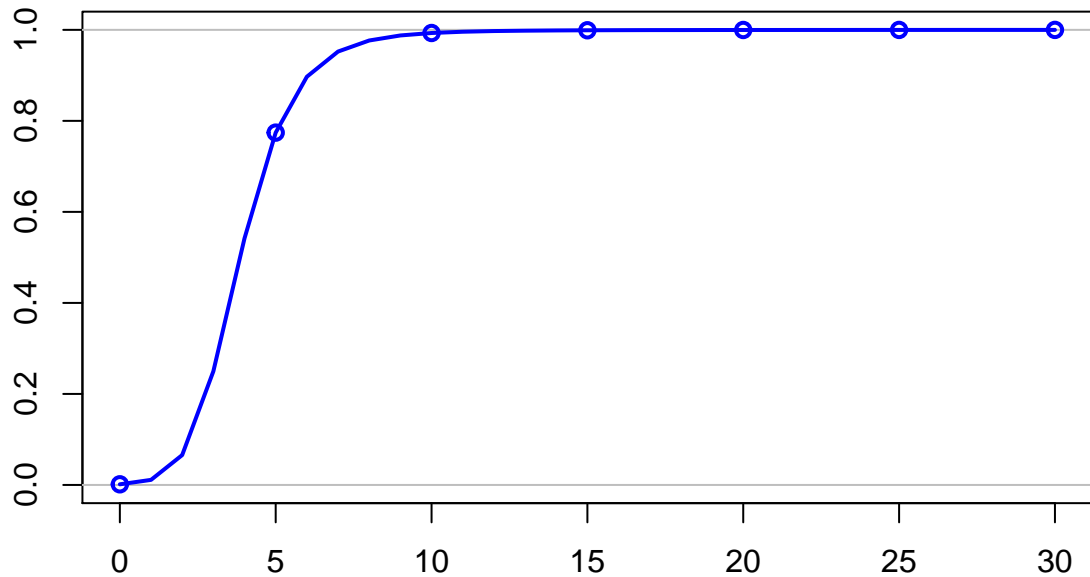
Spawning output



Selectivity

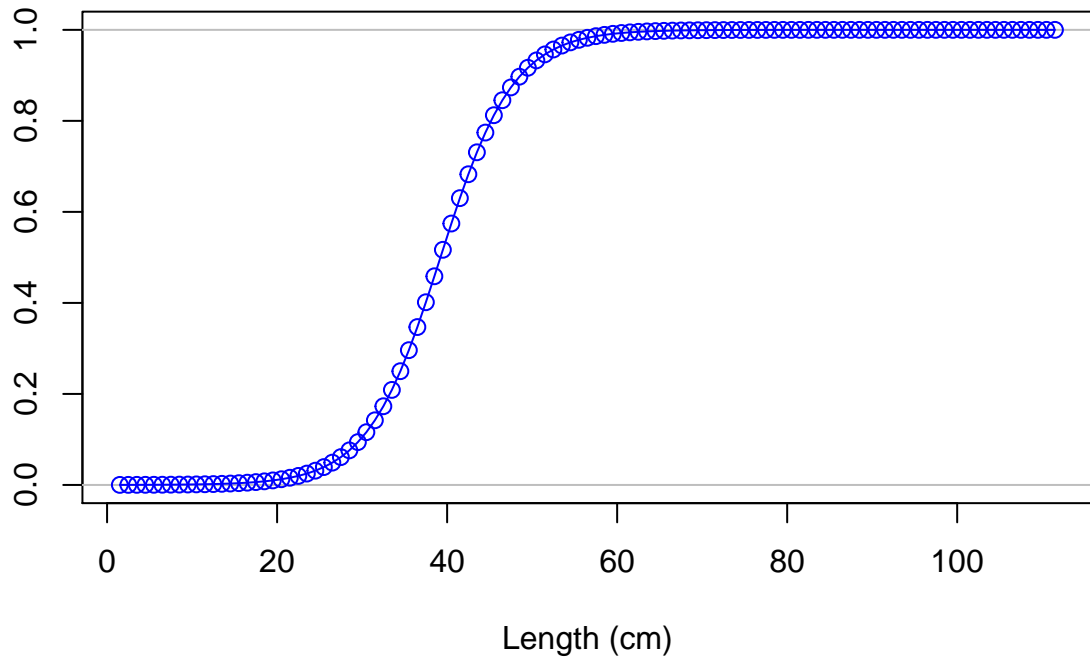


Selectivity

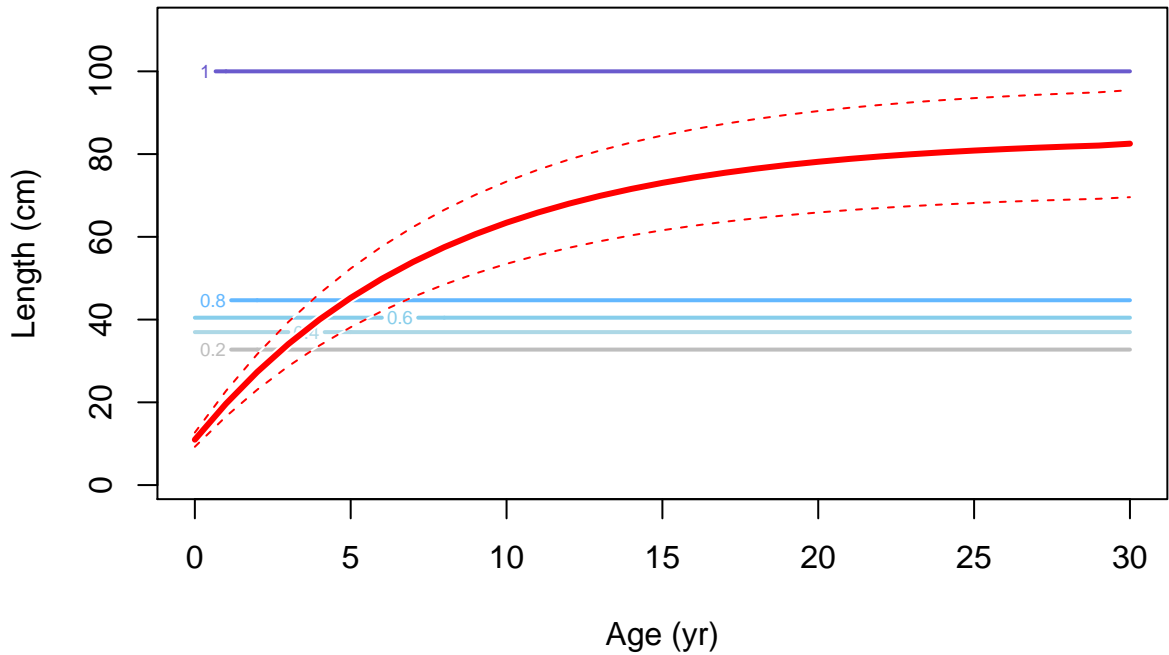


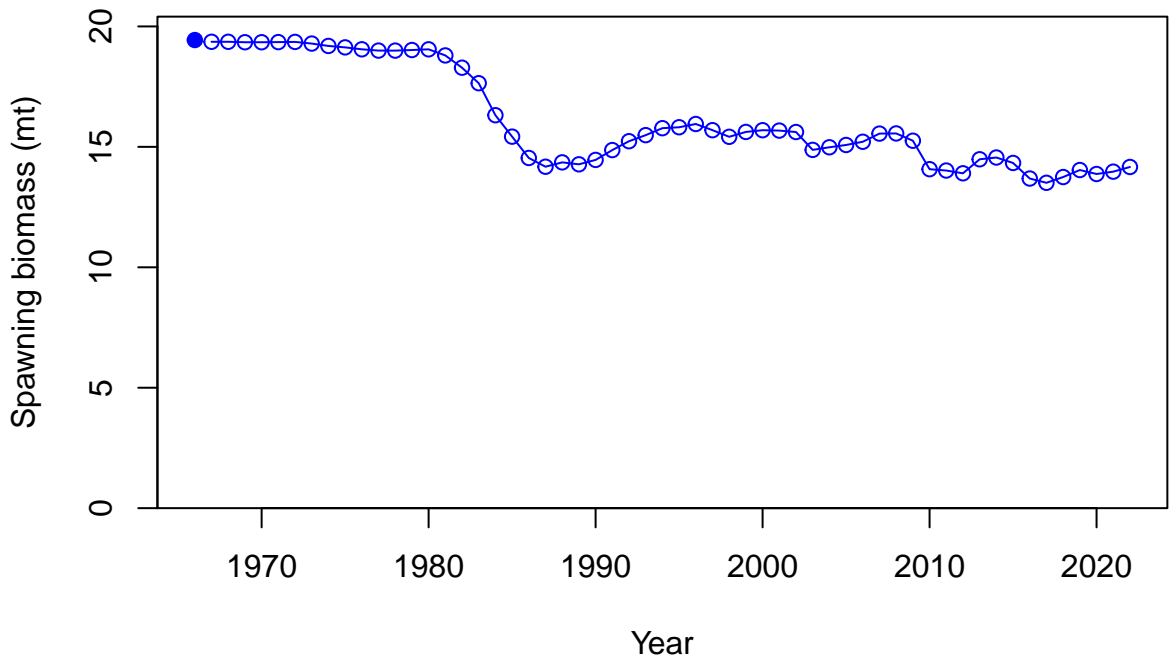
Age (yr)

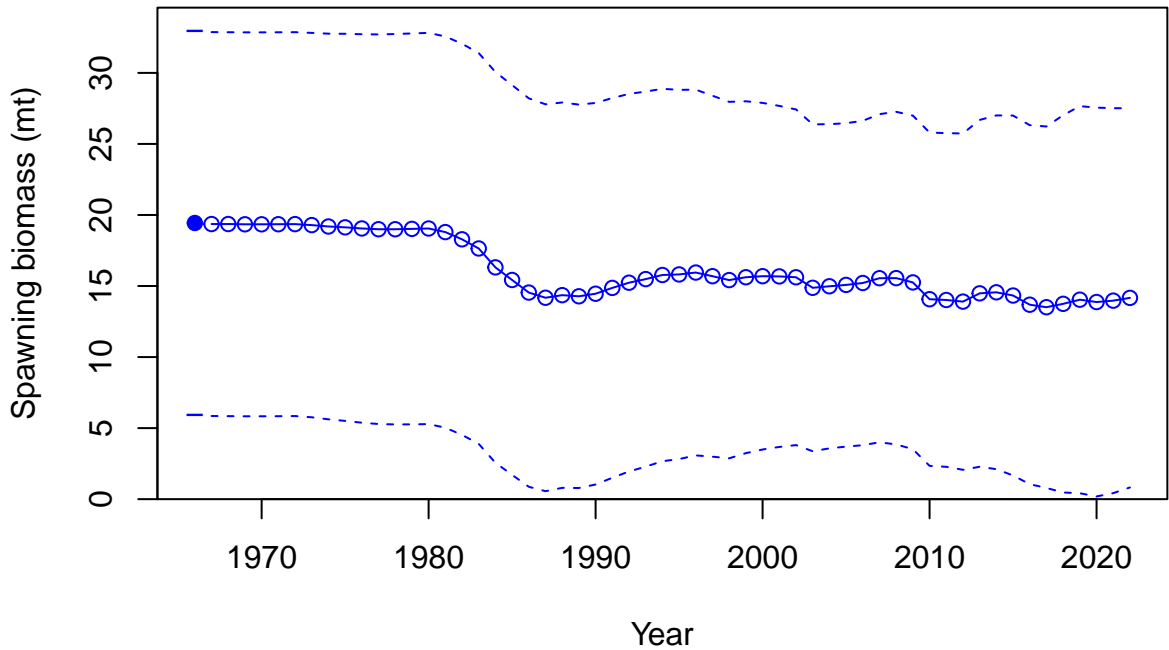
Selectivity



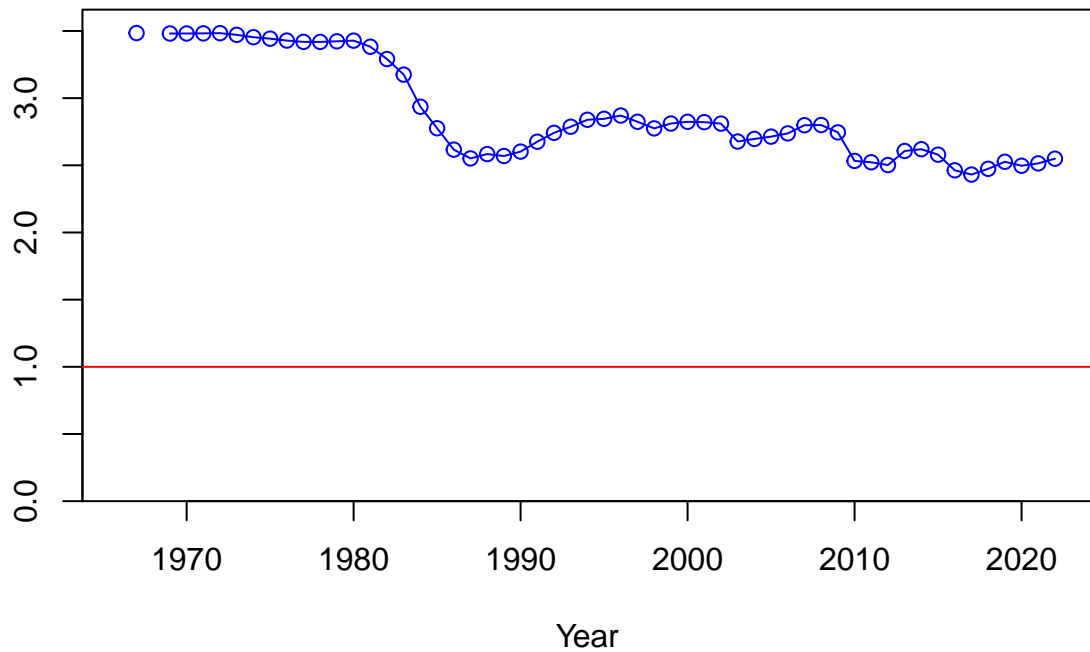




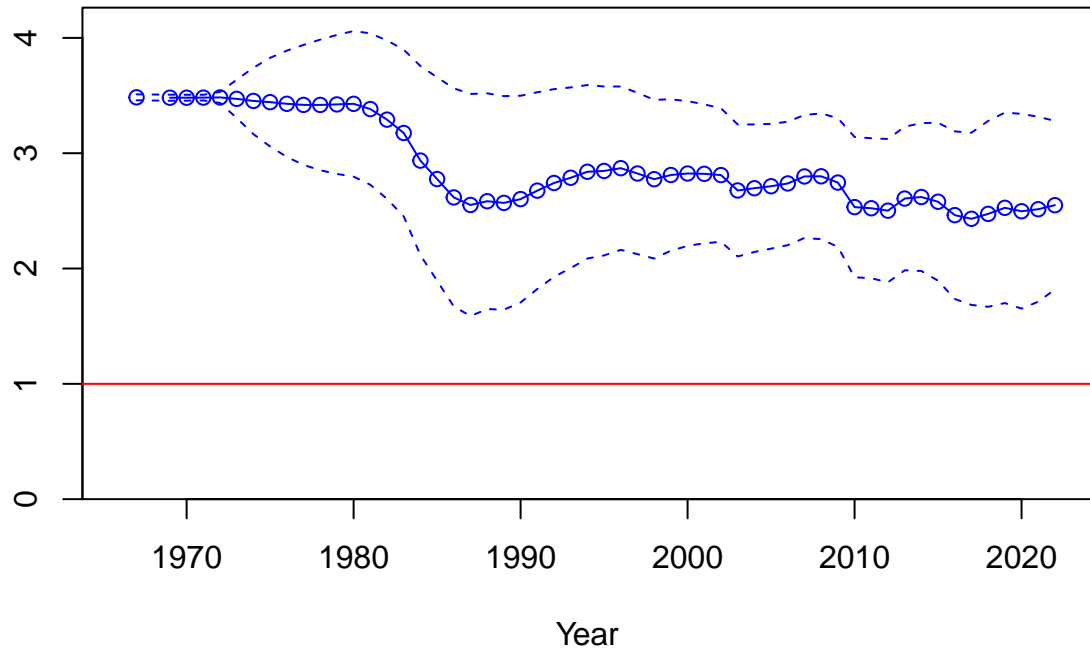


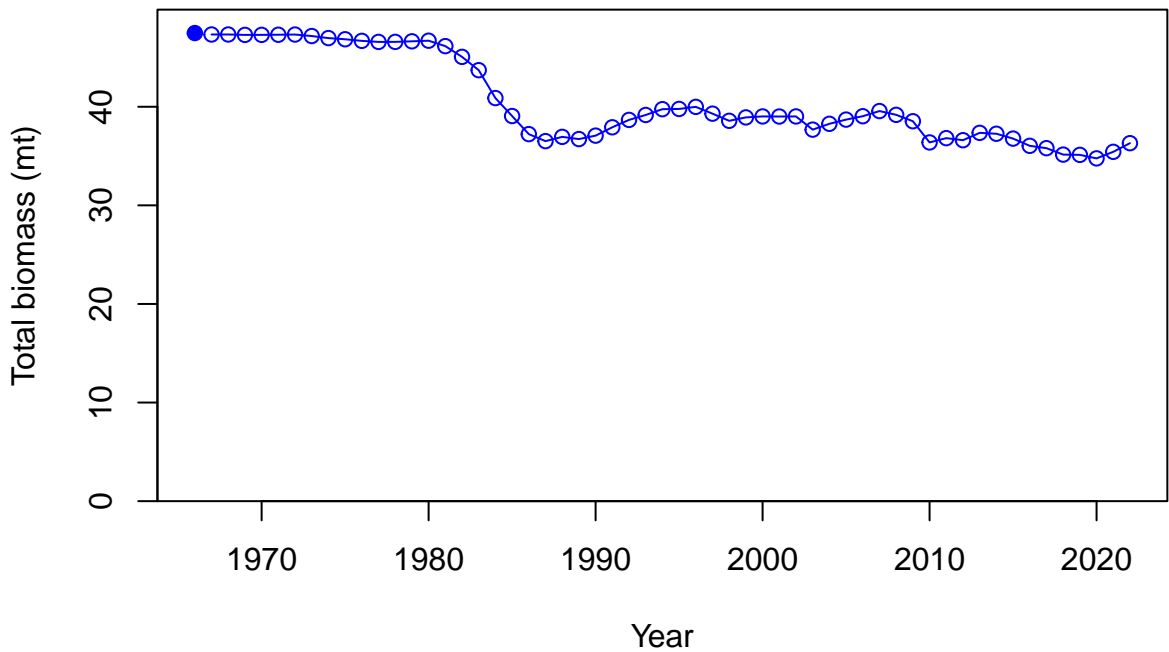


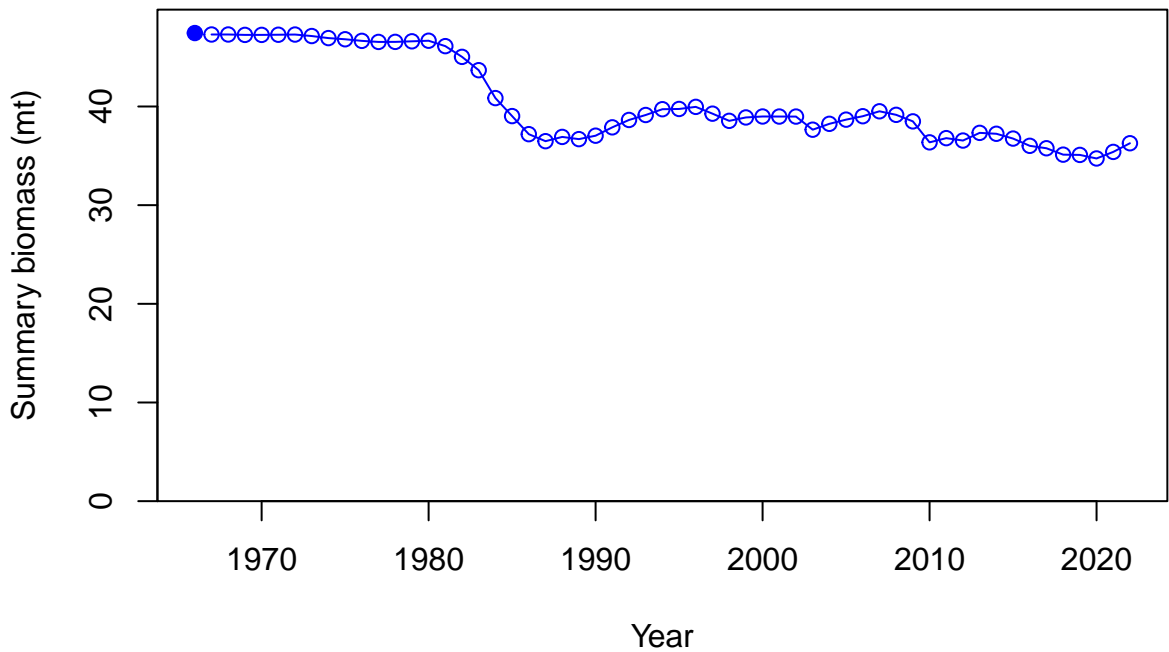
Relative spawning biomass:  $B/B_{MSY}$



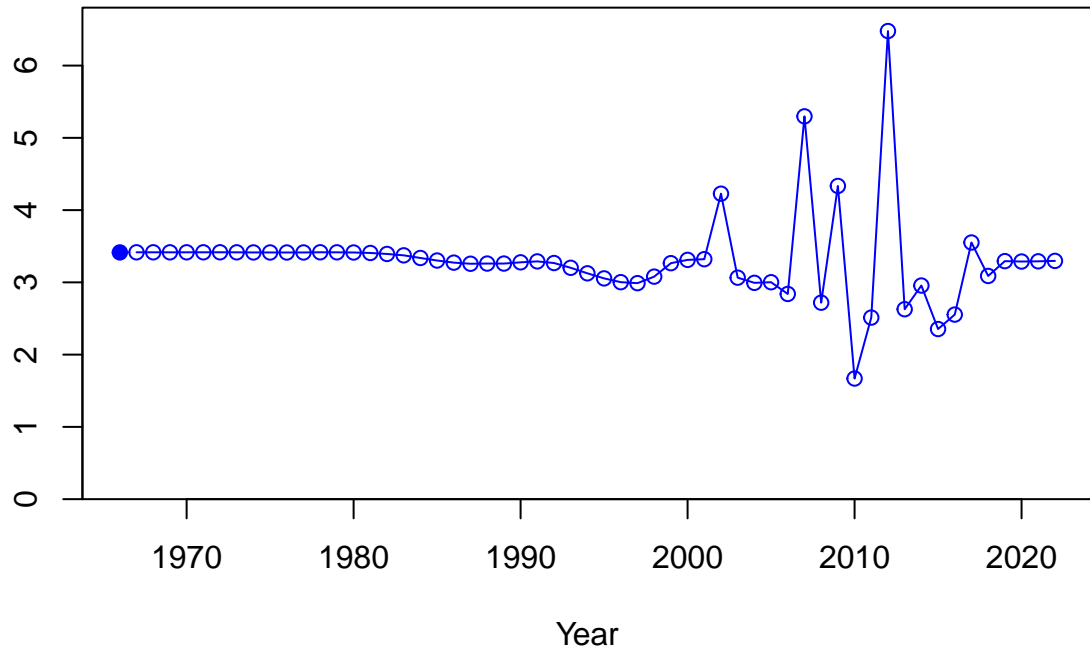
Relative spawning biomass:  $B/B_{MSY}$





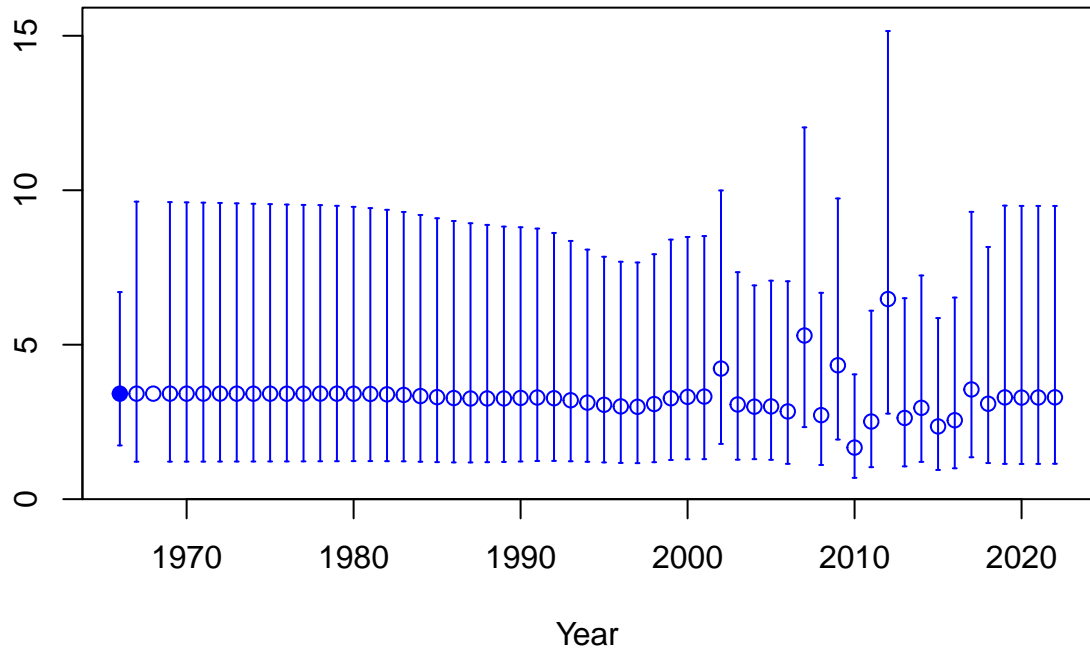


Age-0 recruits (1,000s)

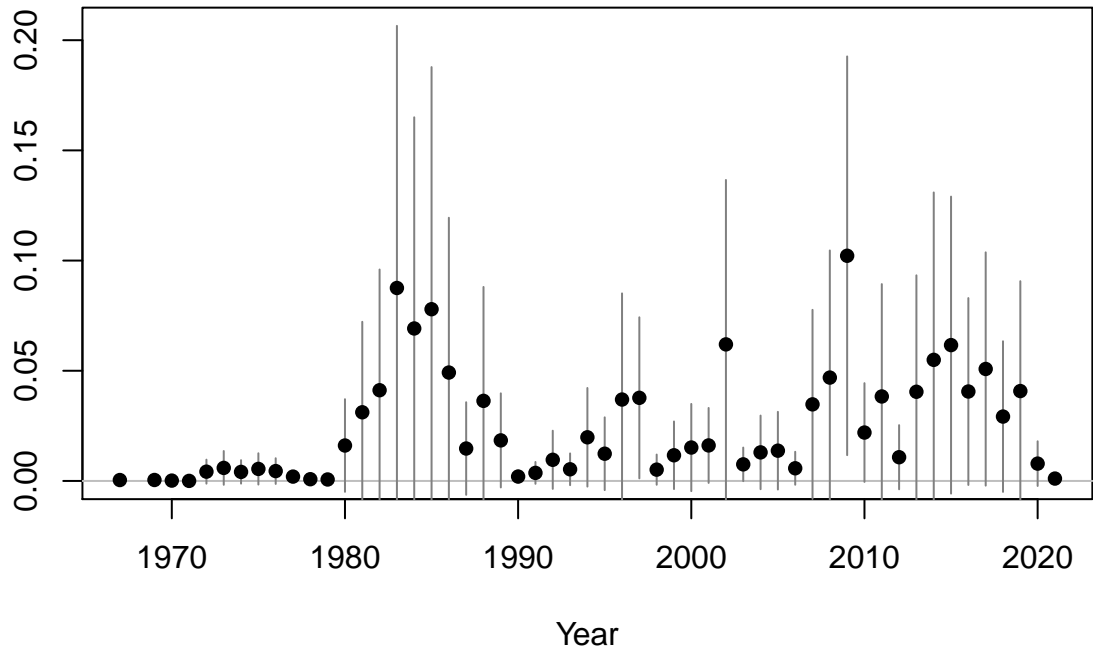


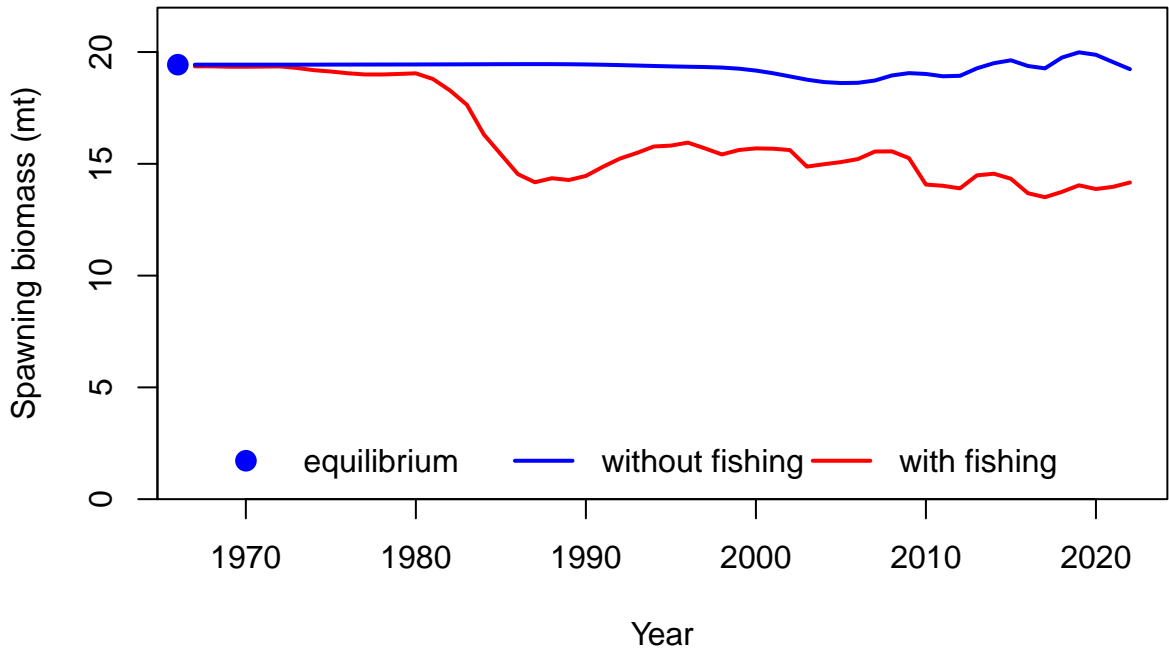


Age-0 recruits (1,000s)

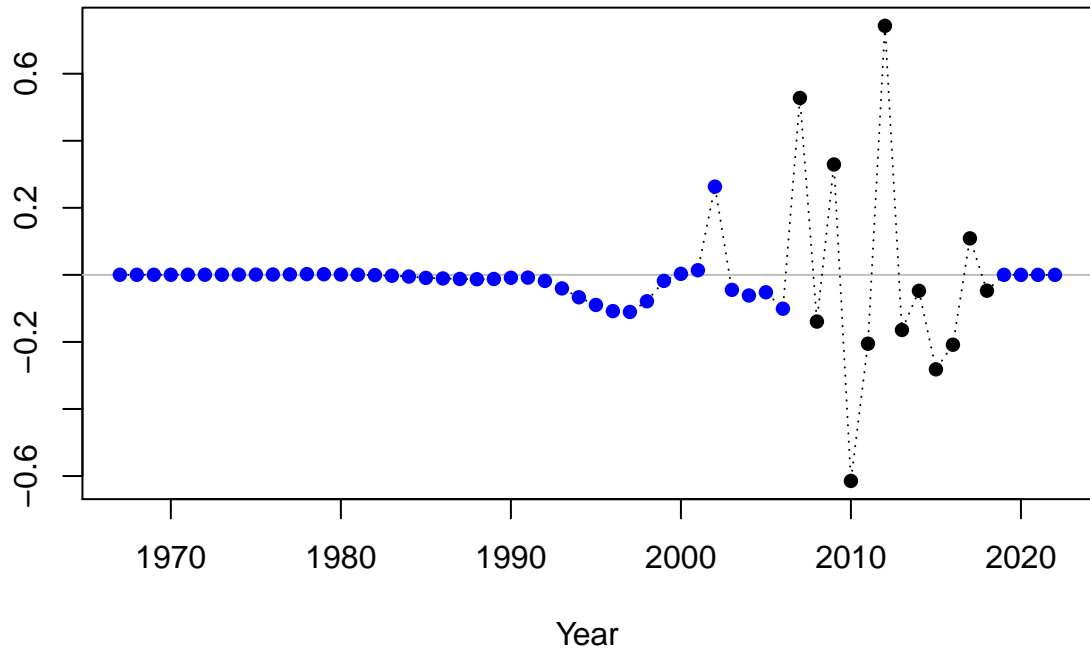


Summary Fishing Mortality

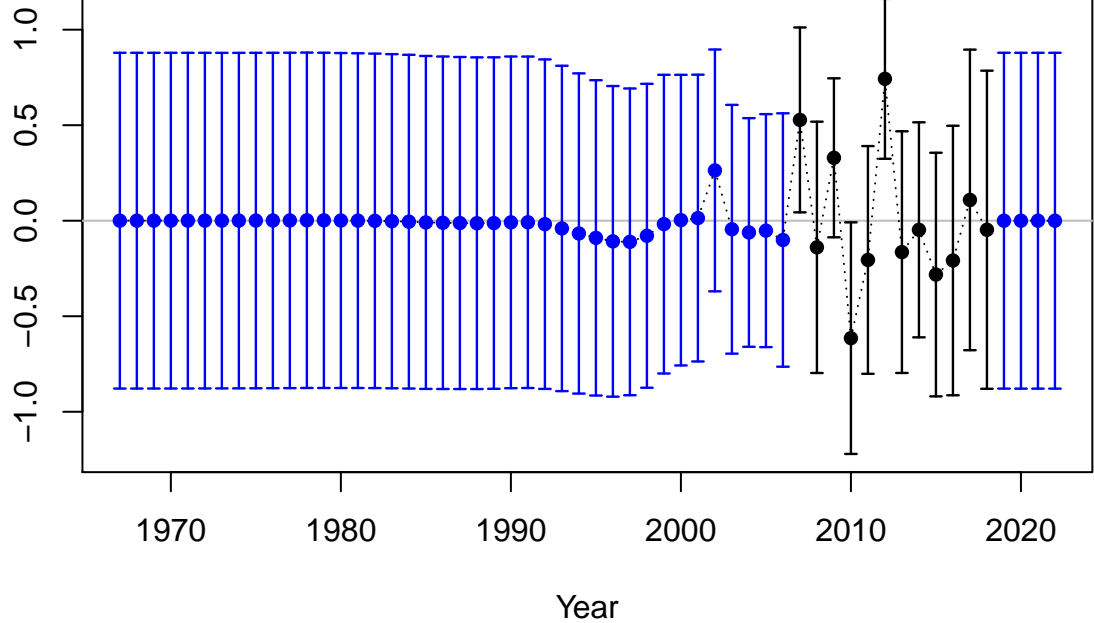




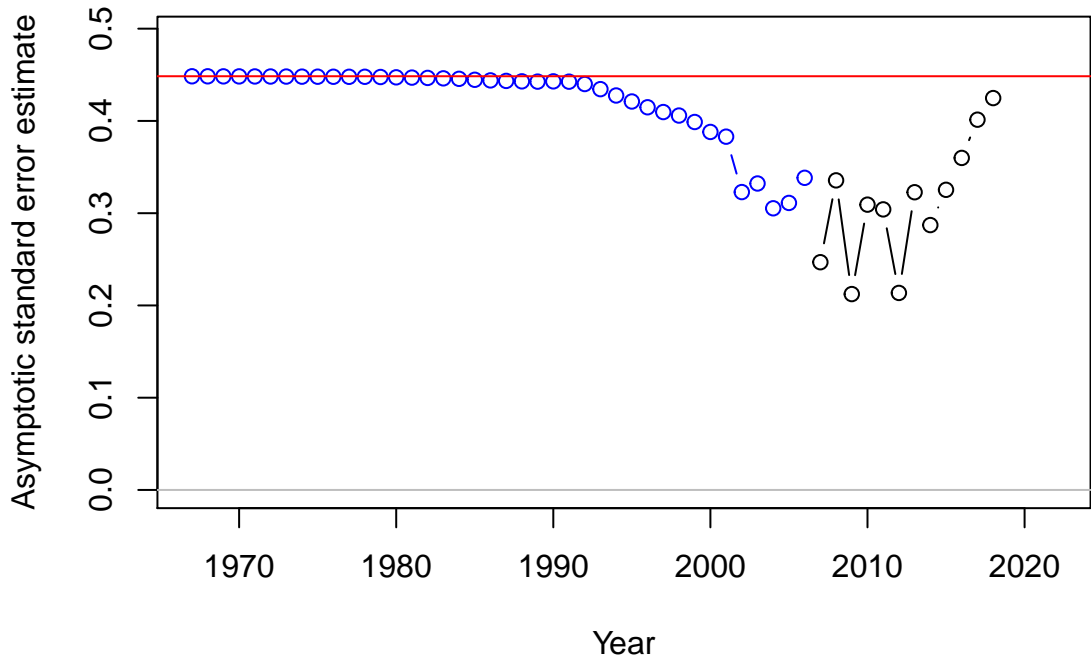
Log recruitment deviation

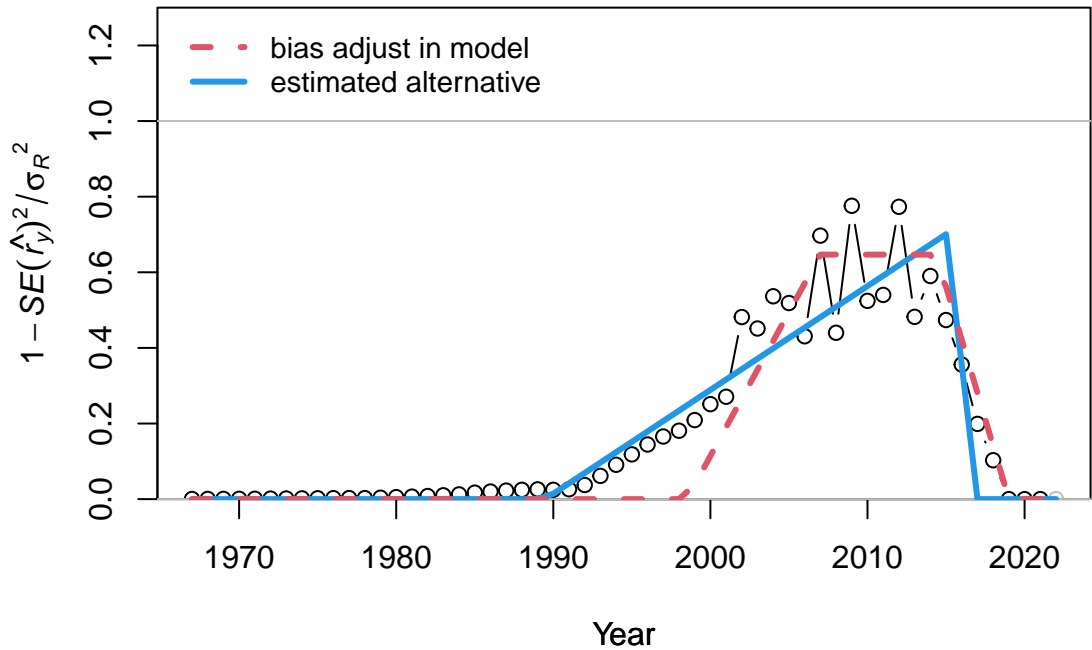


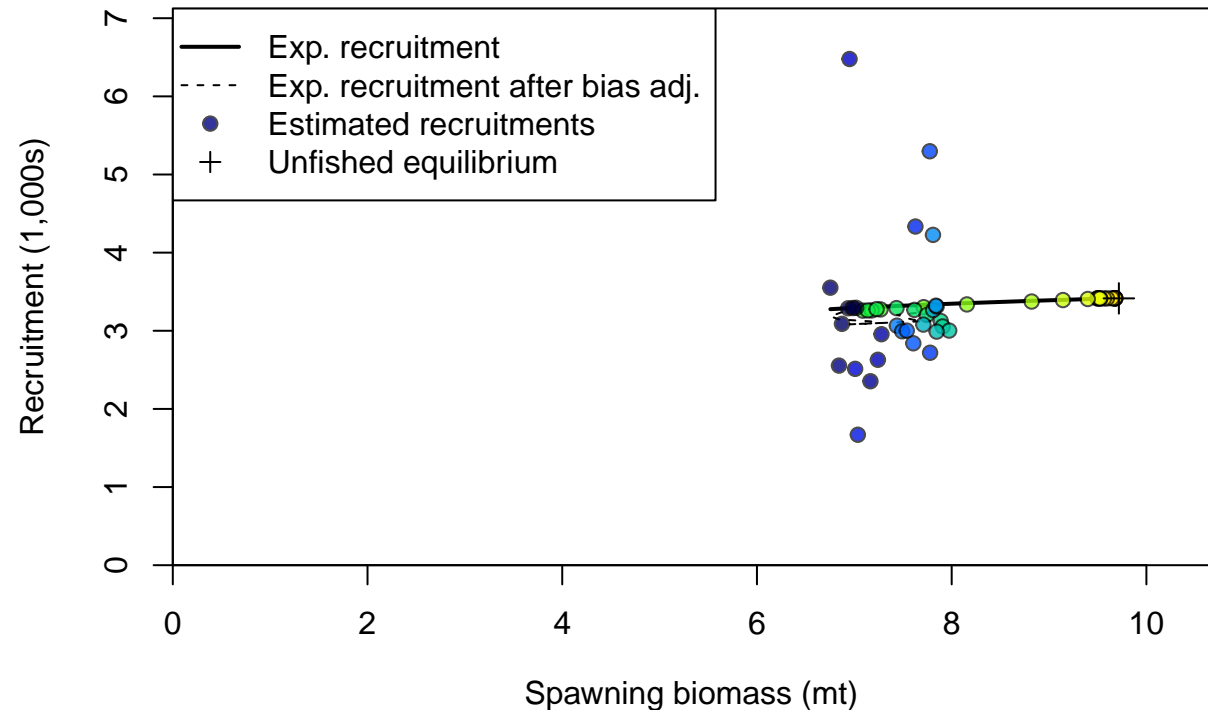
Log recruitment deviation



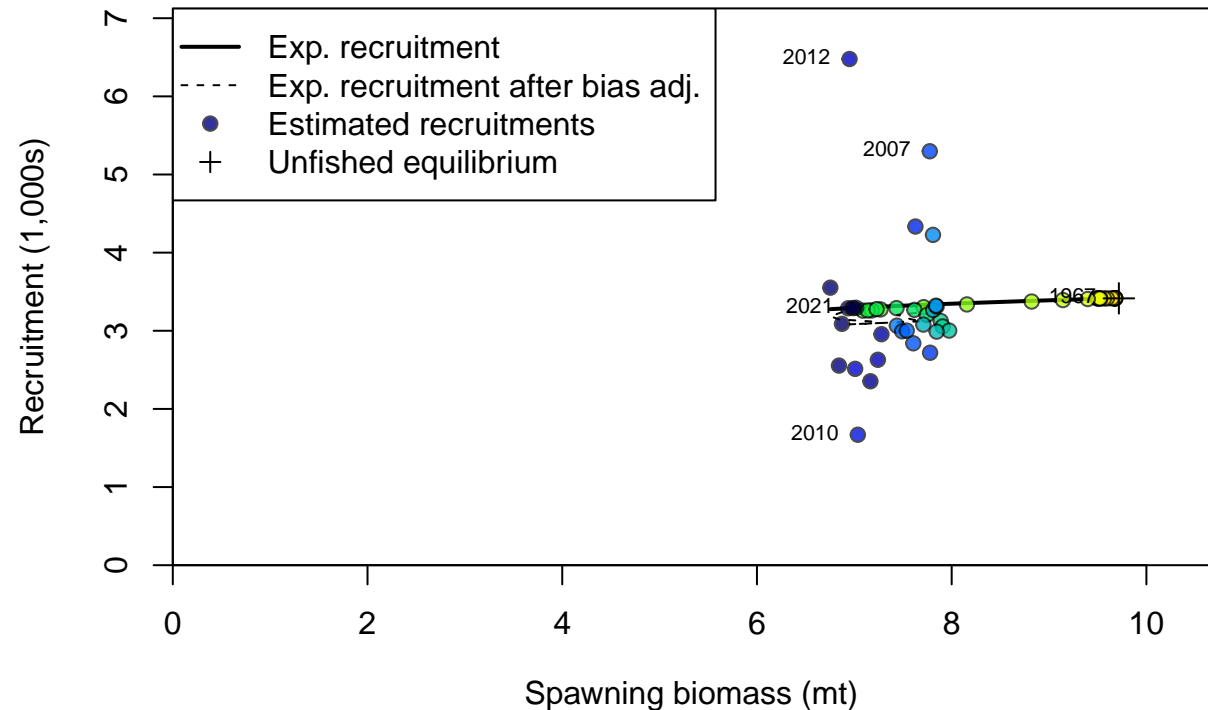
## Recruitment deviation variance

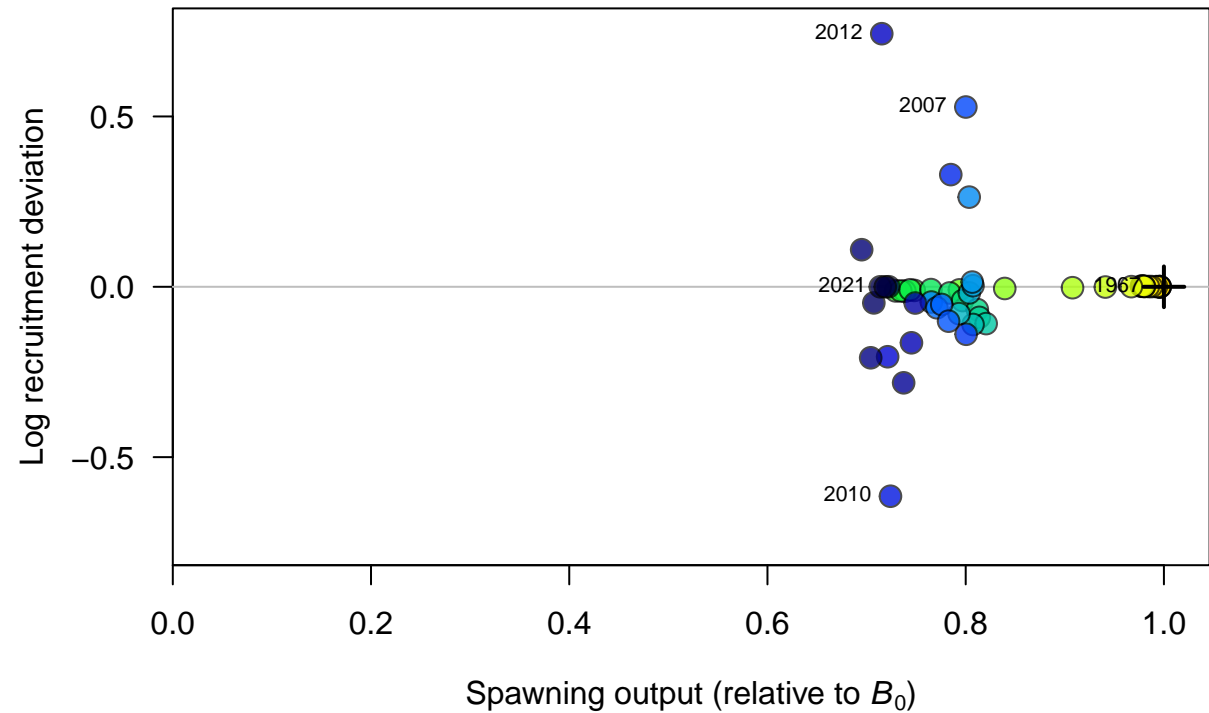


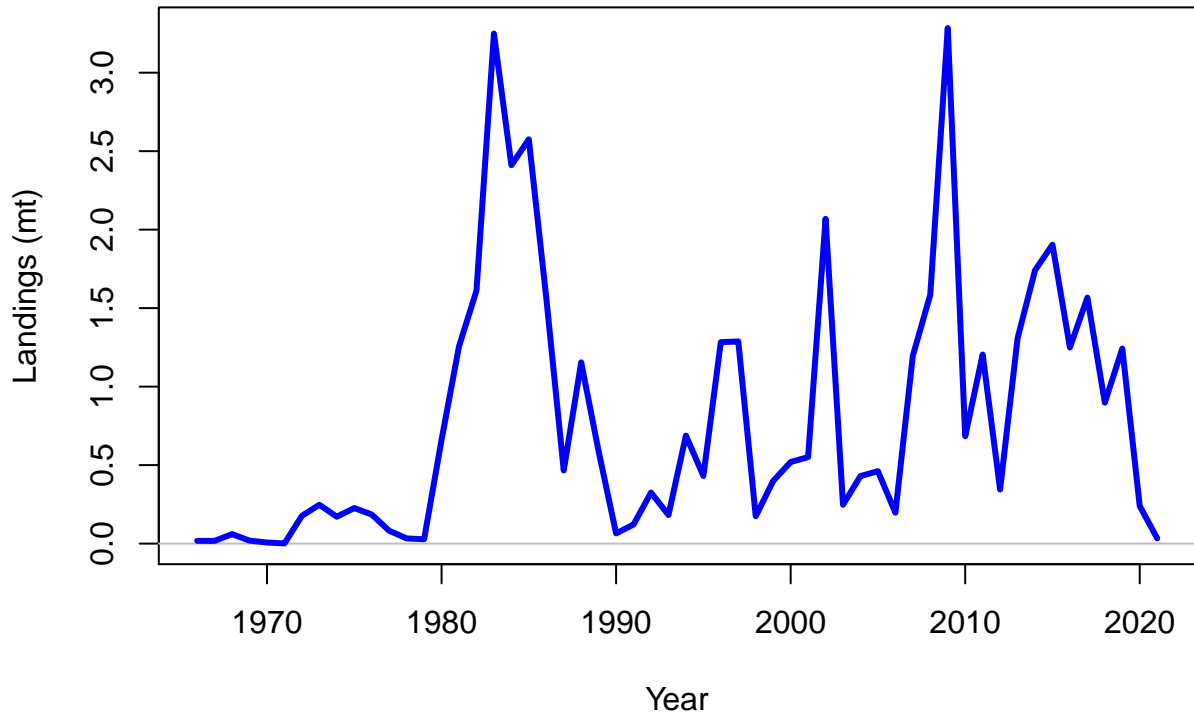


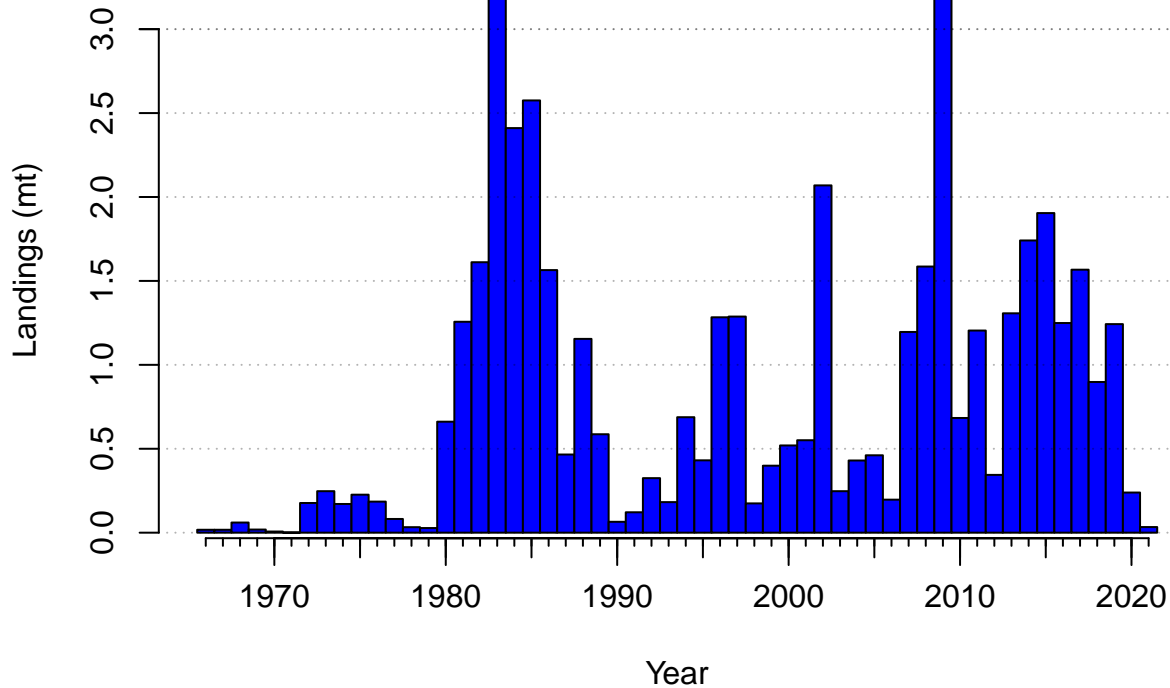


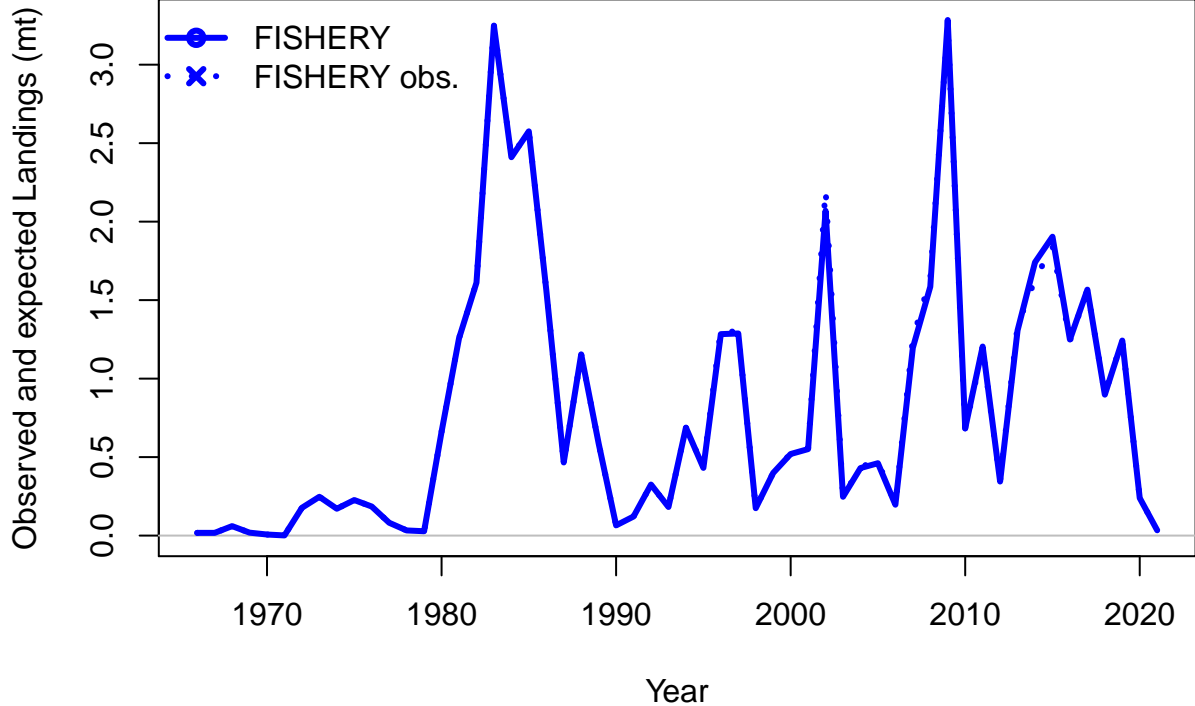


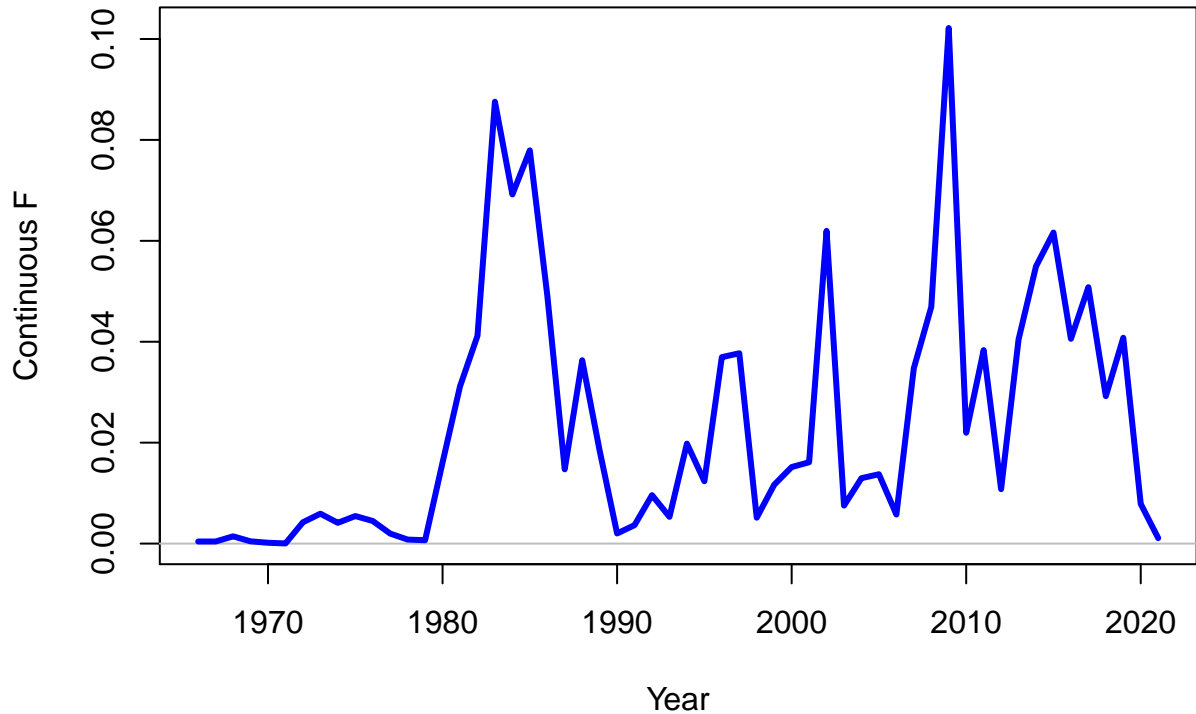




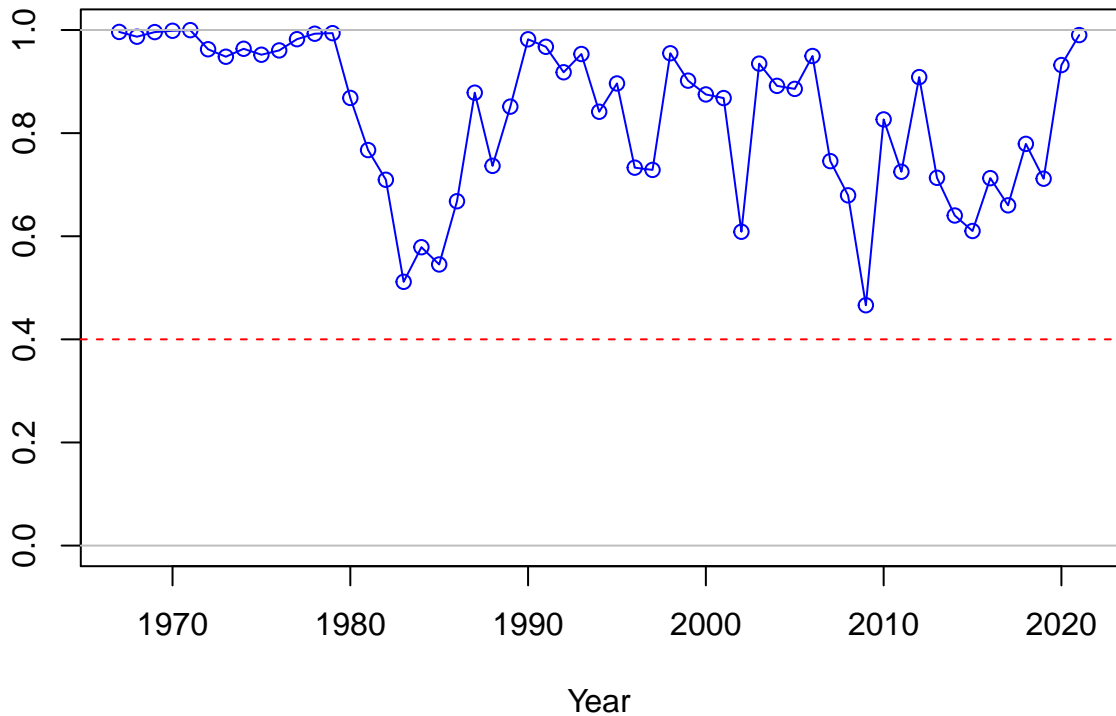


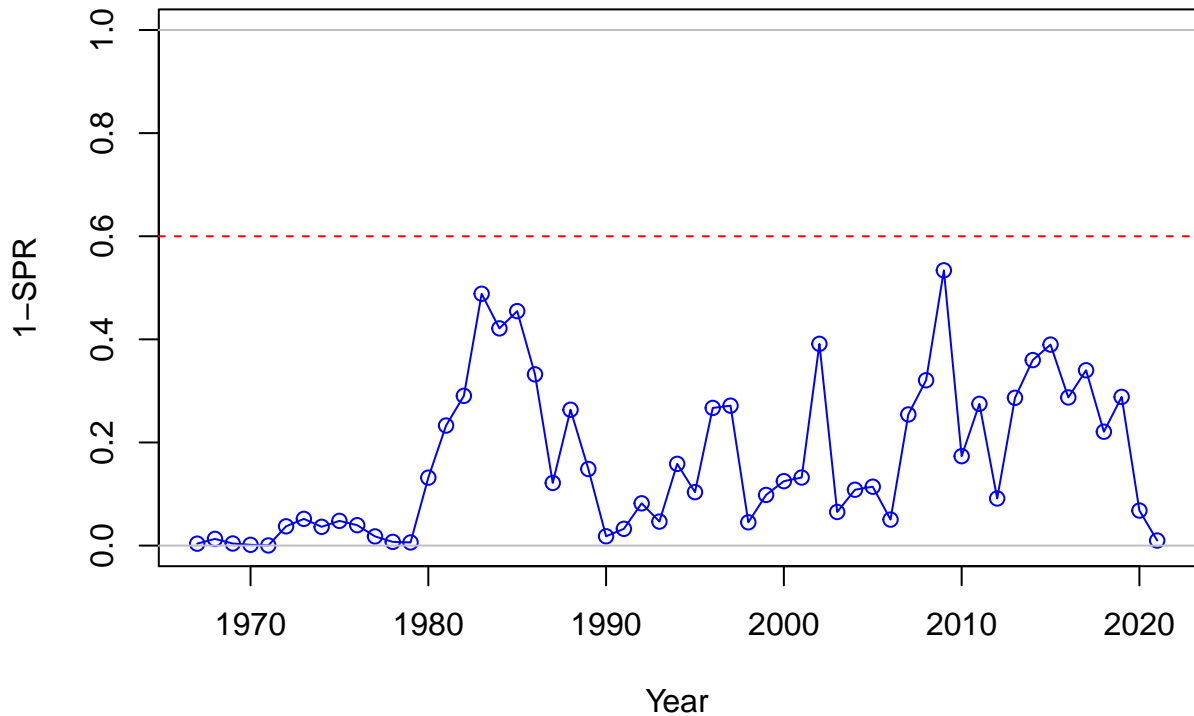






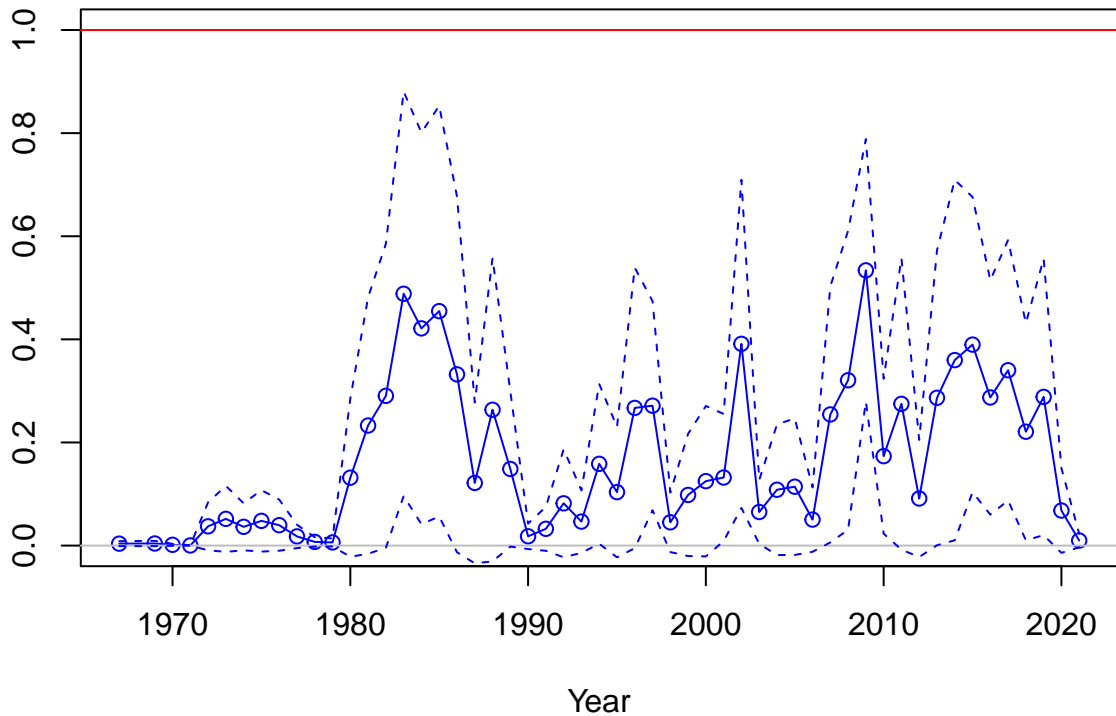
SPR



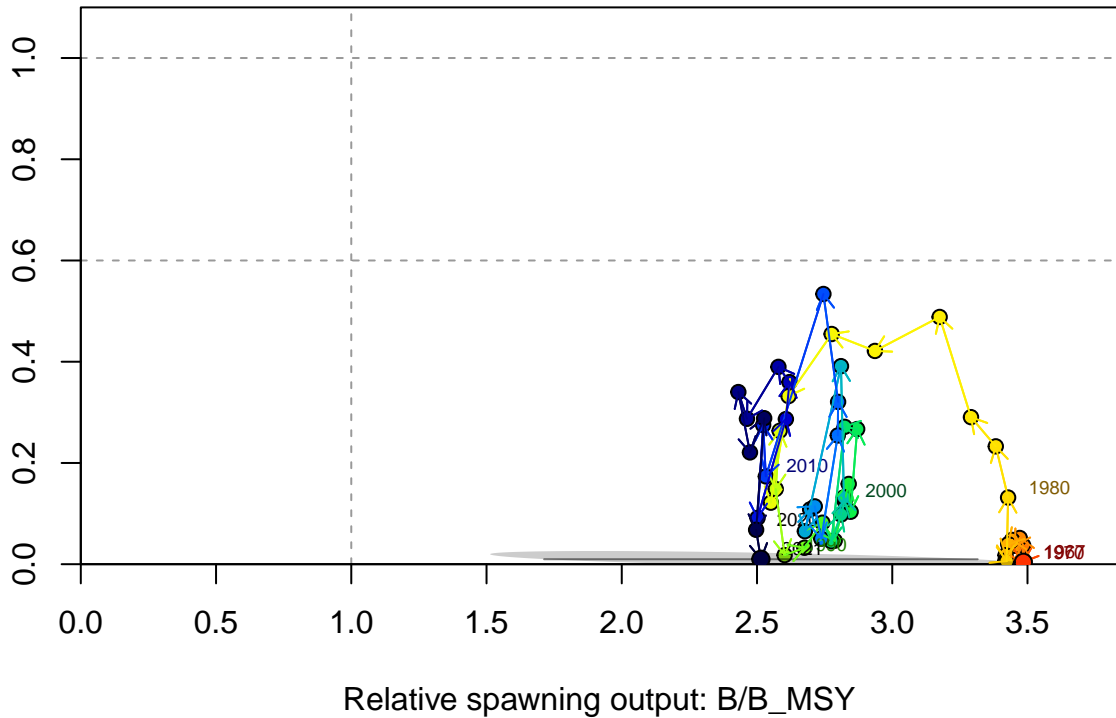




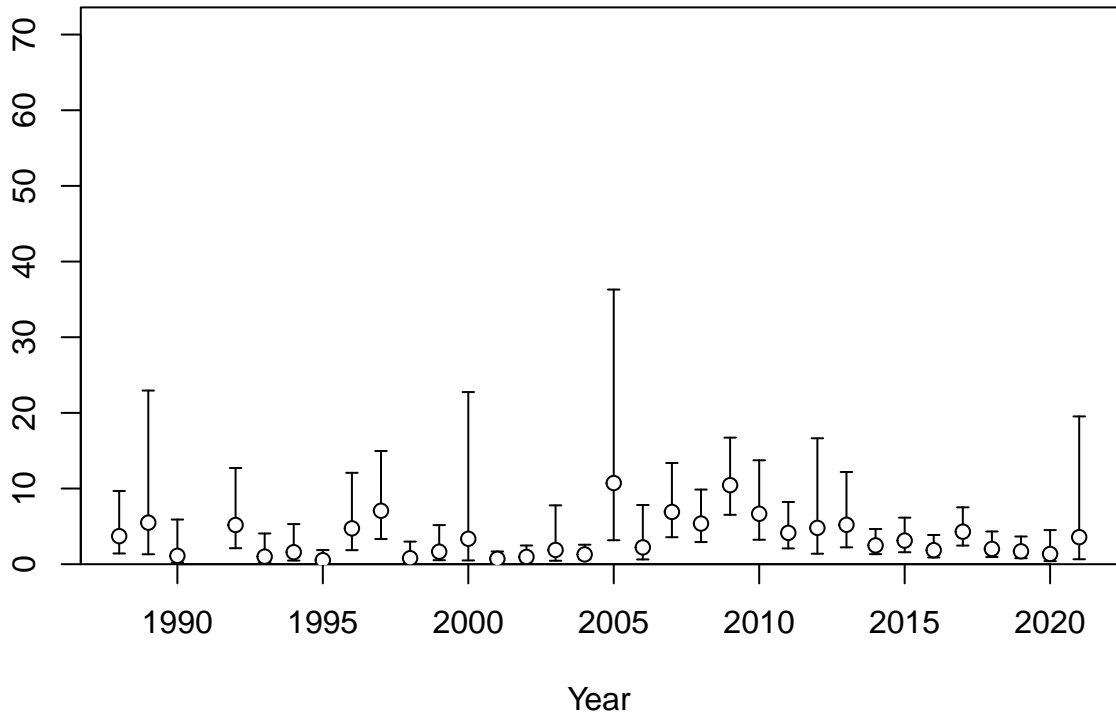
Fishing intensity: 1-SPR



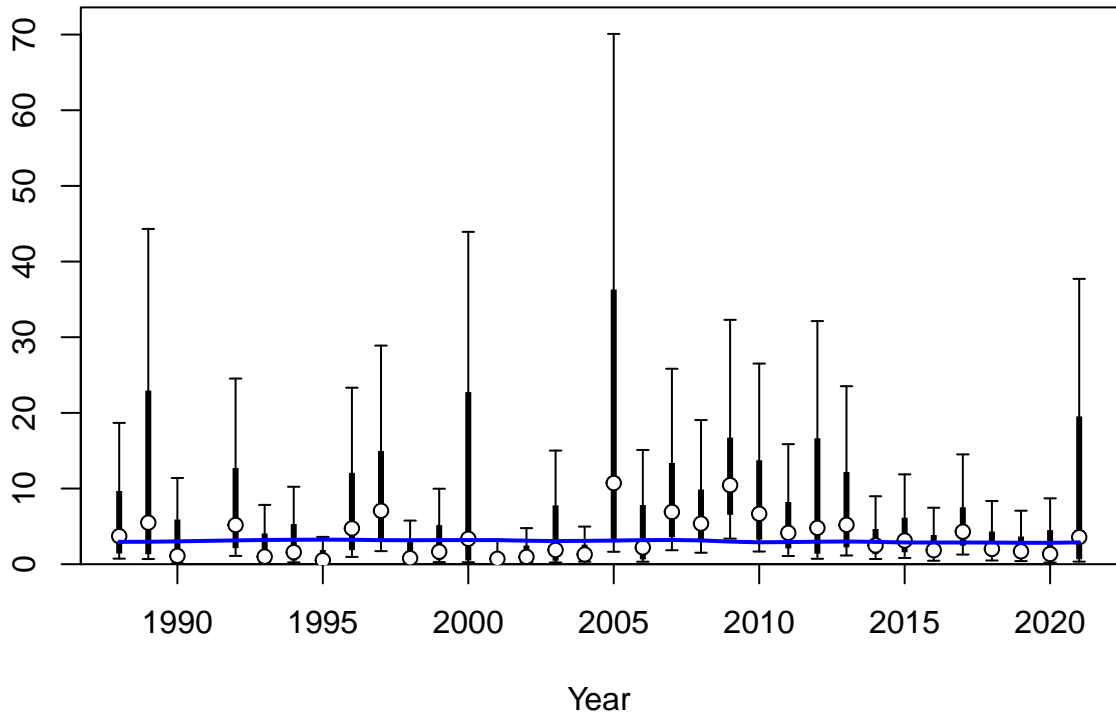
Fishing intensity: 1-SPR



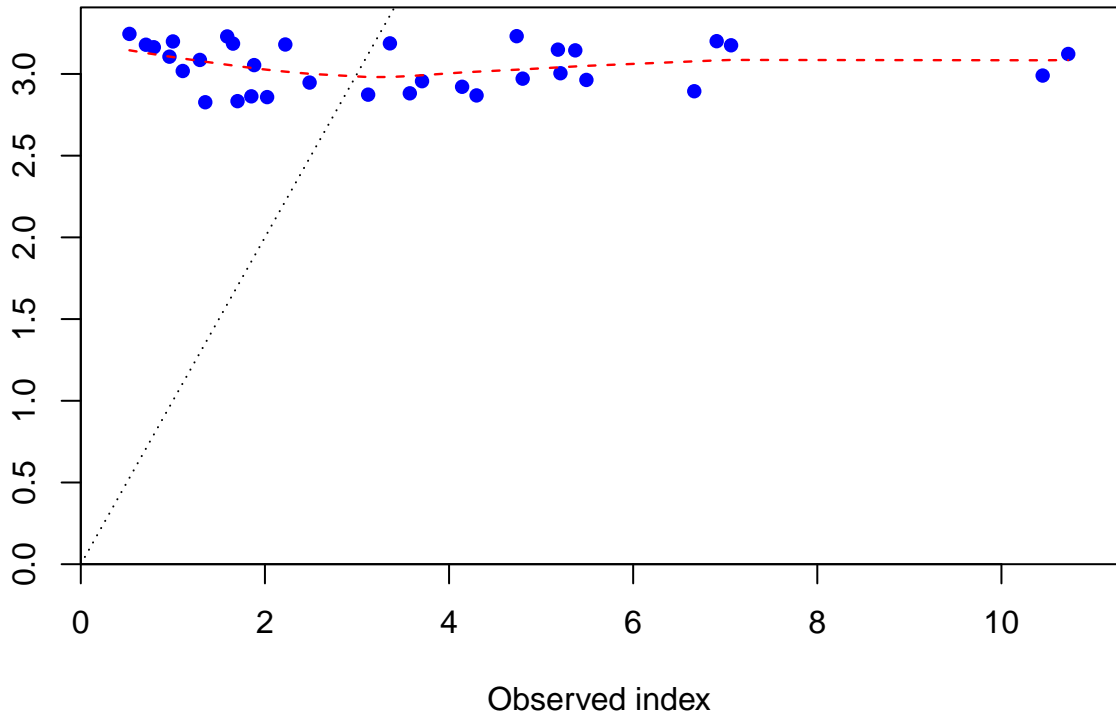
Index



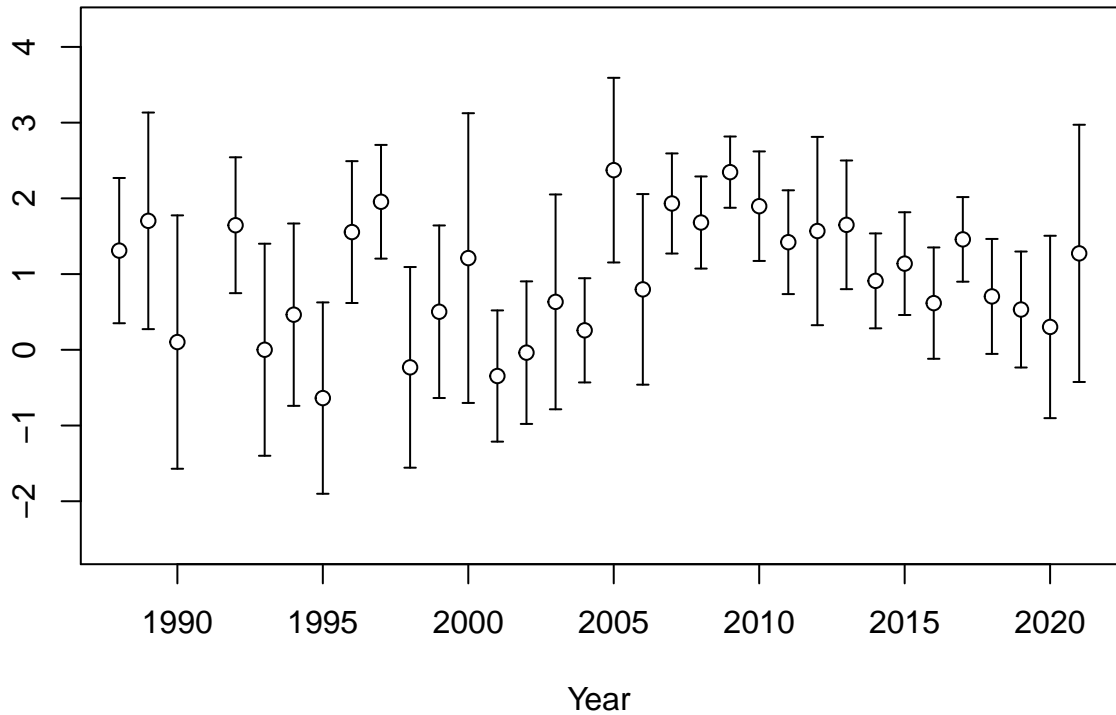
Index



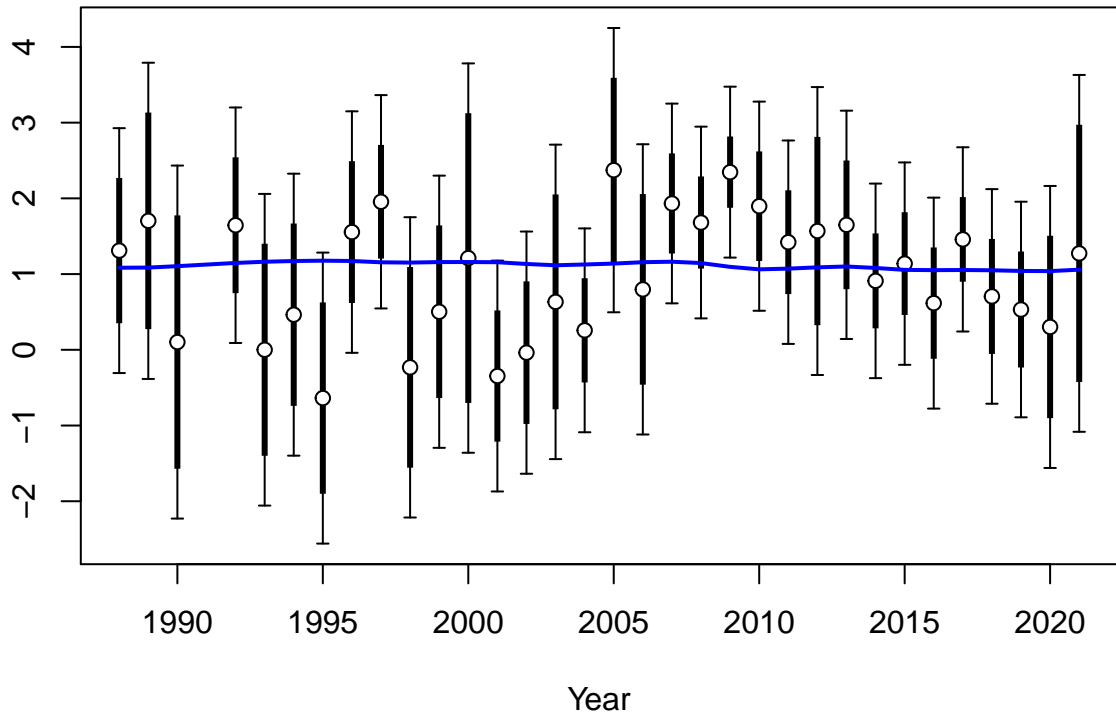
Expected index

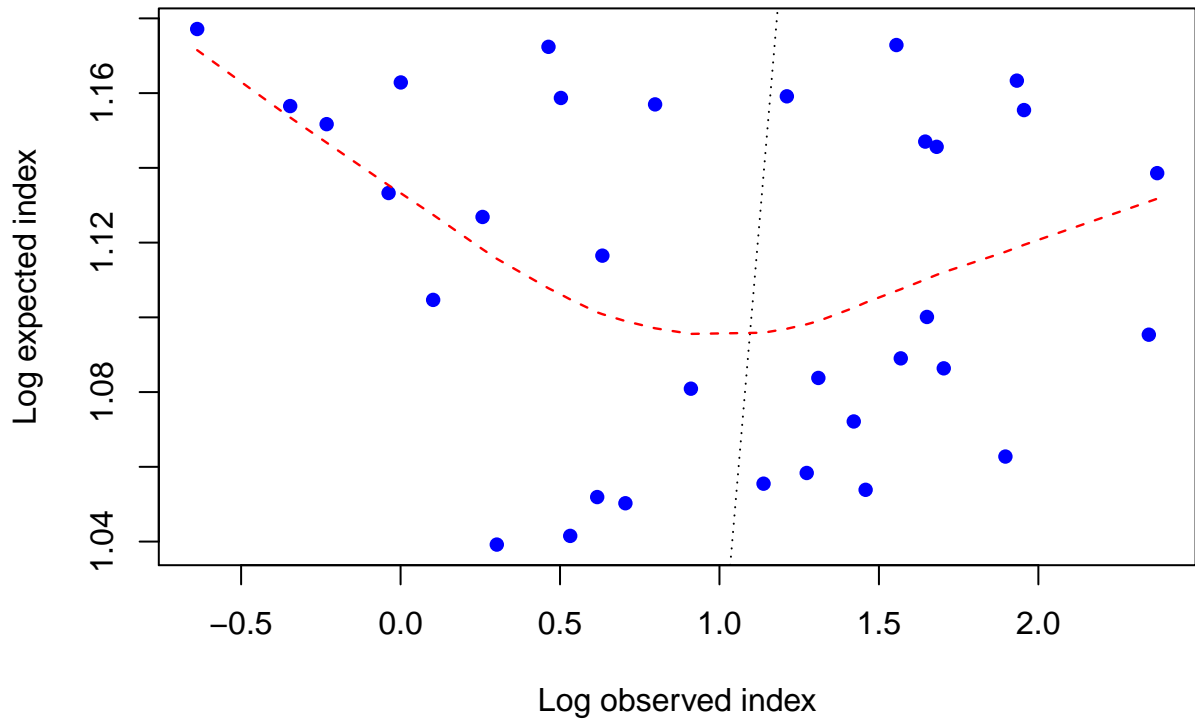


Log index

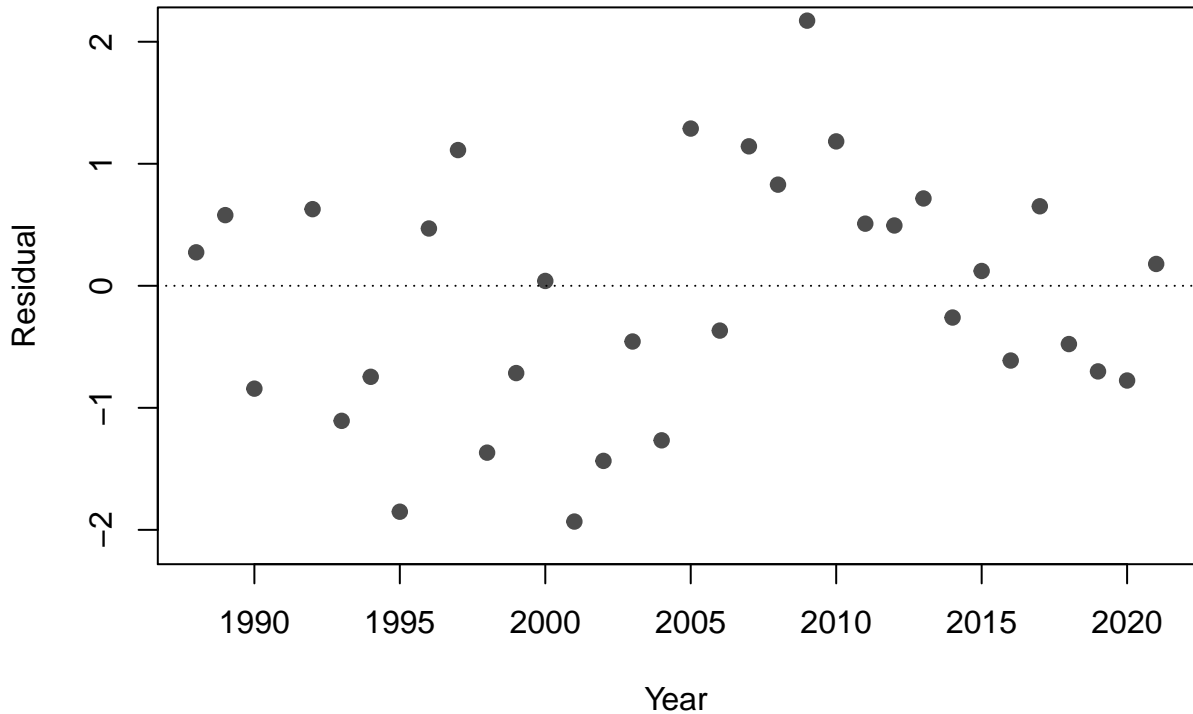


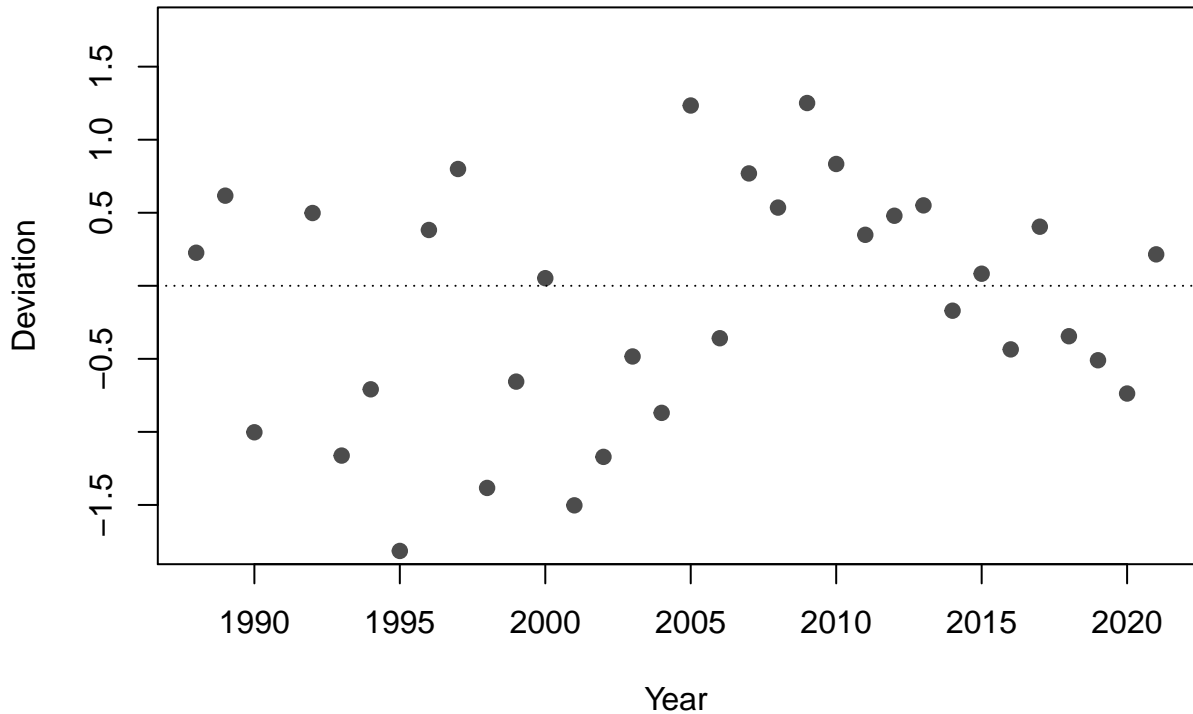
Log index

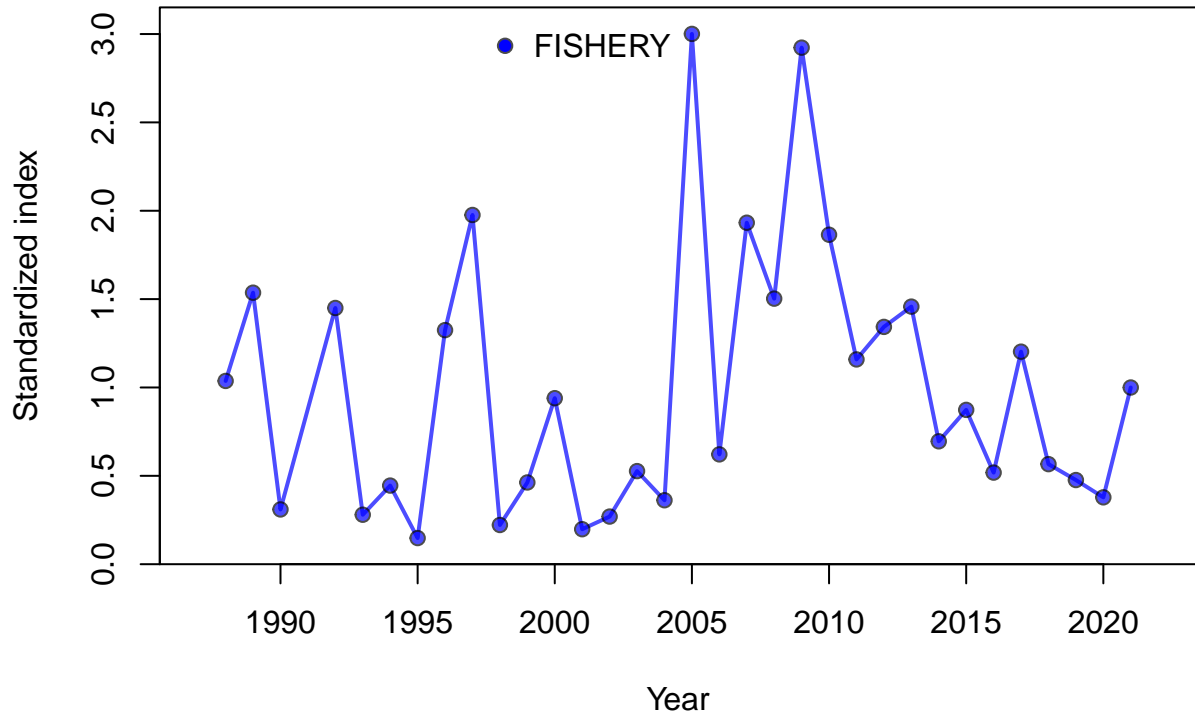


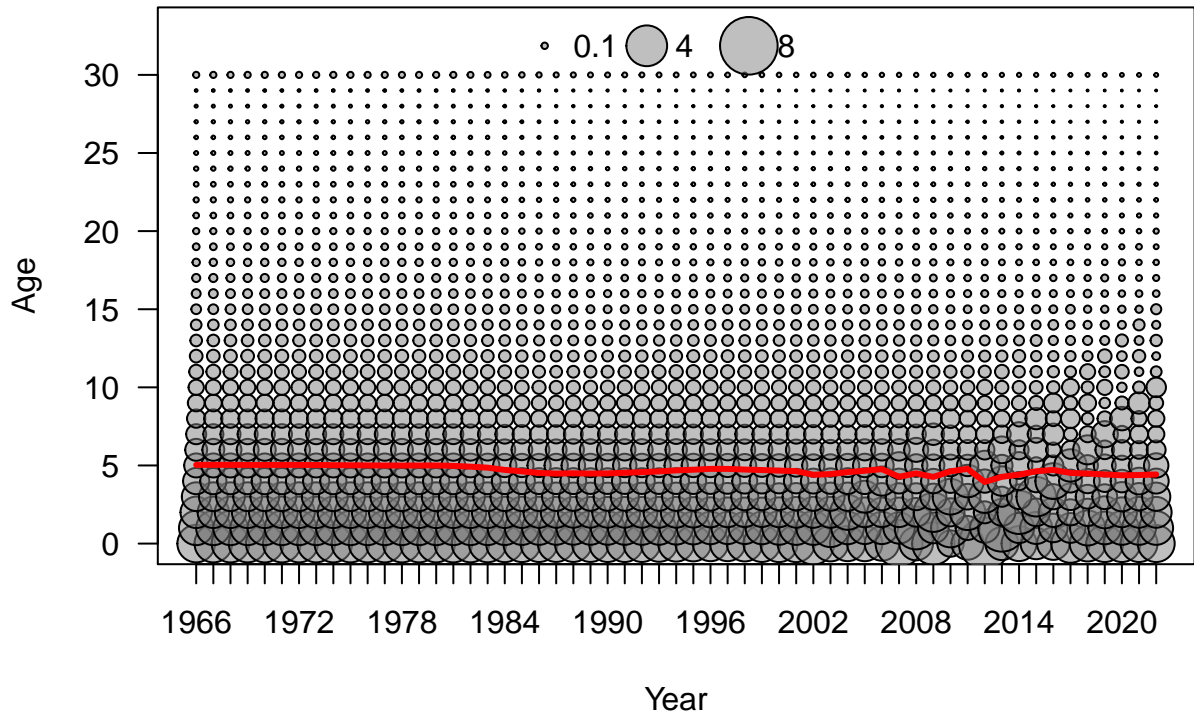


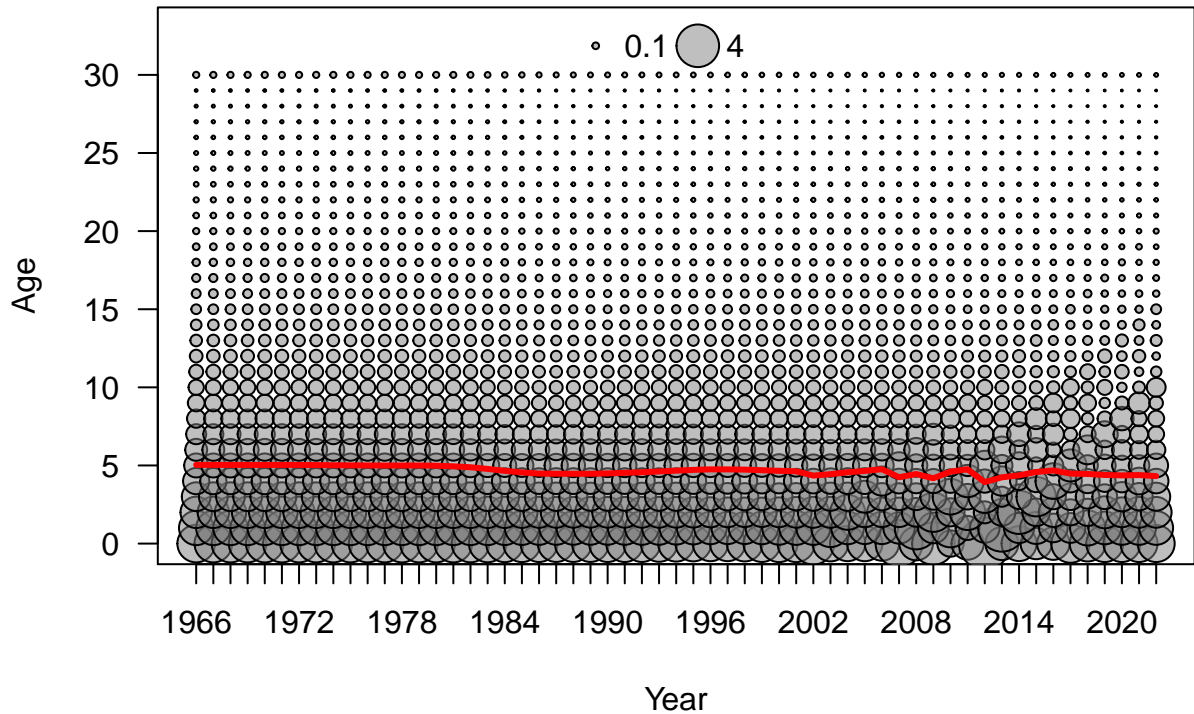


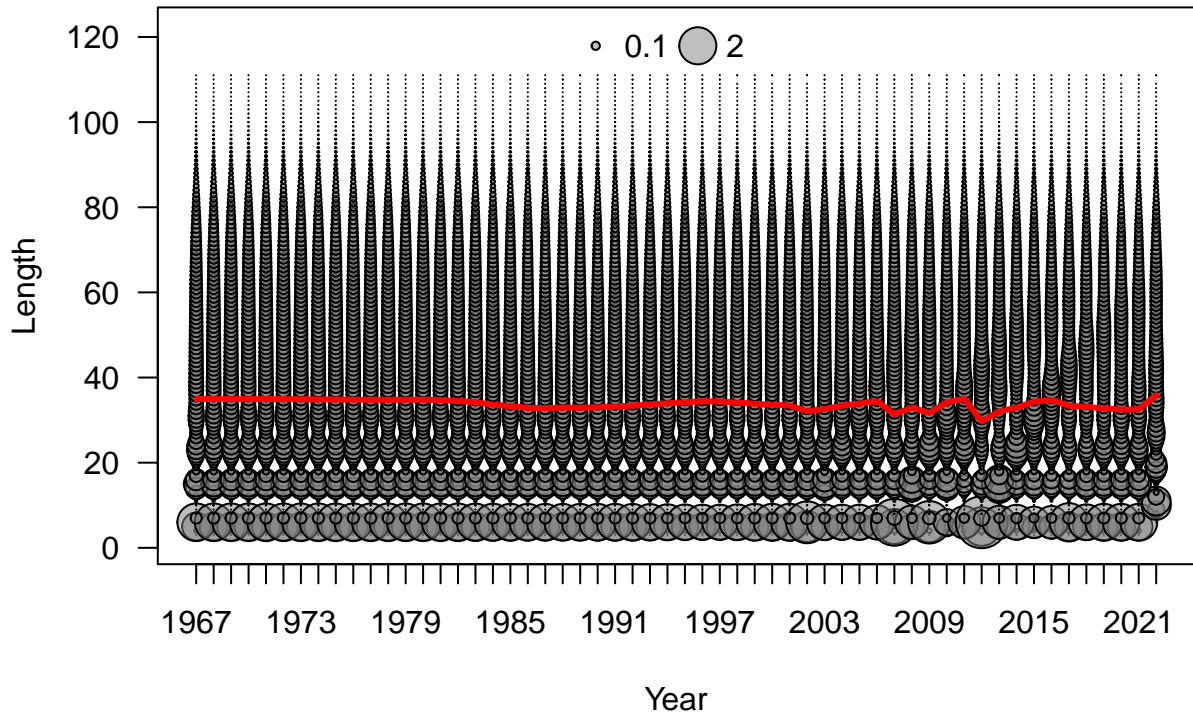






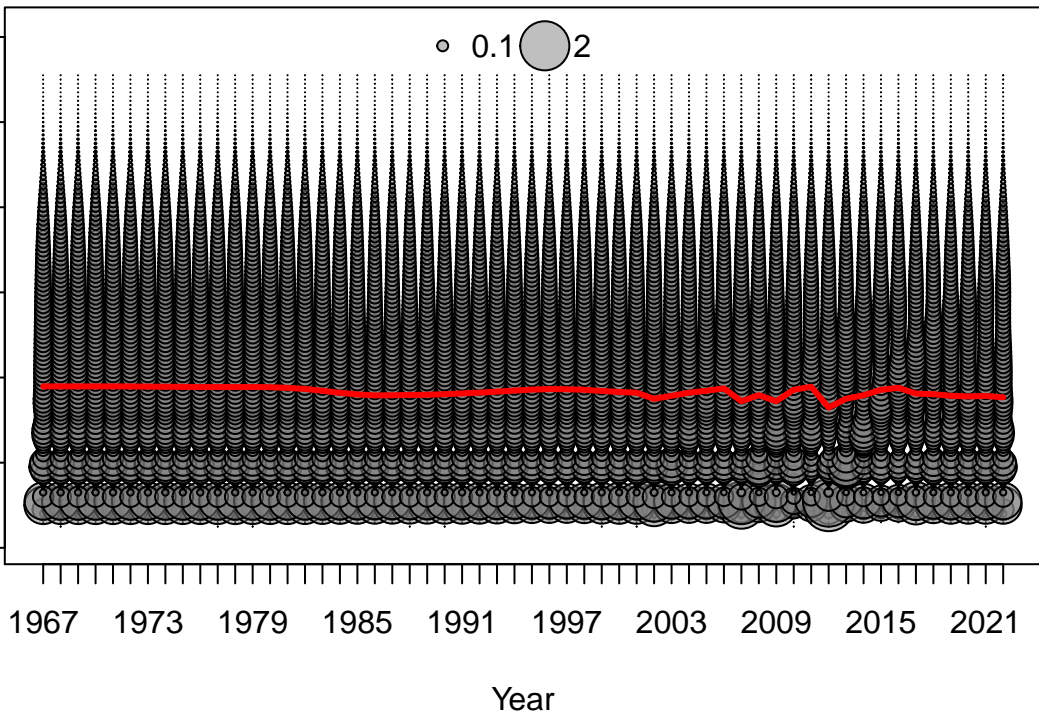


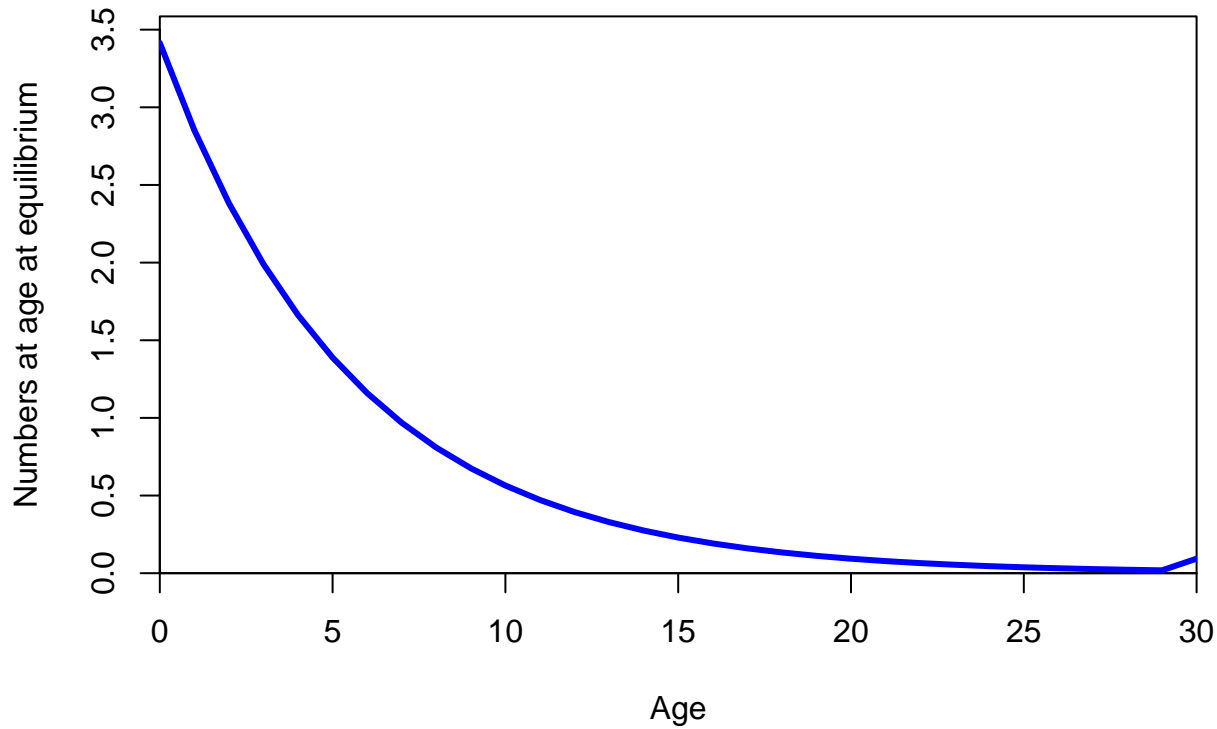




Length

○ 0.1 ● 2

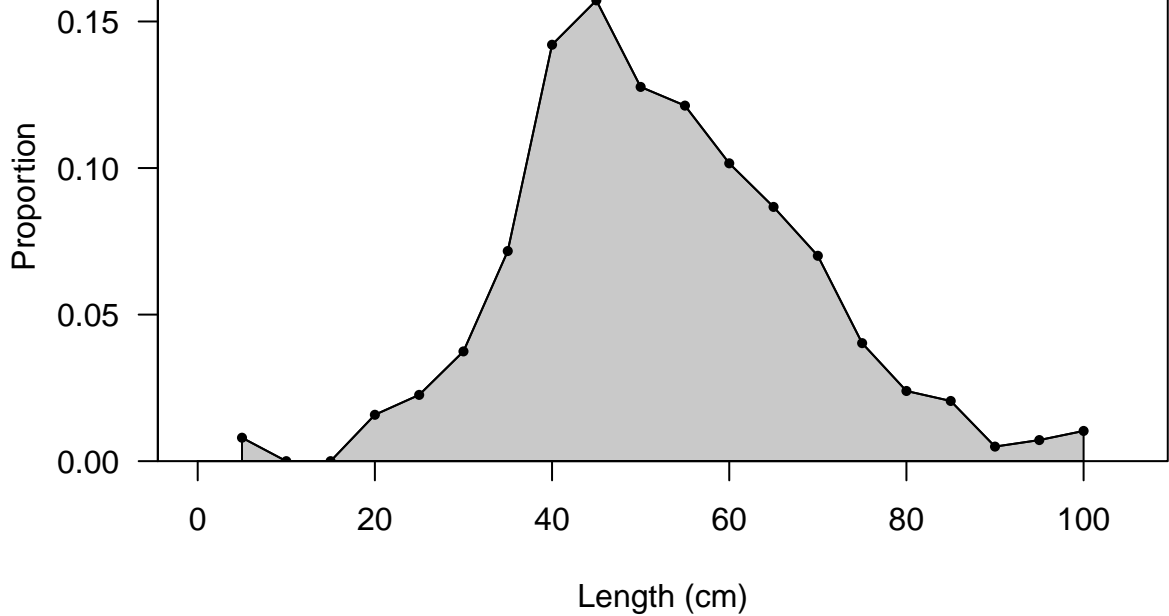


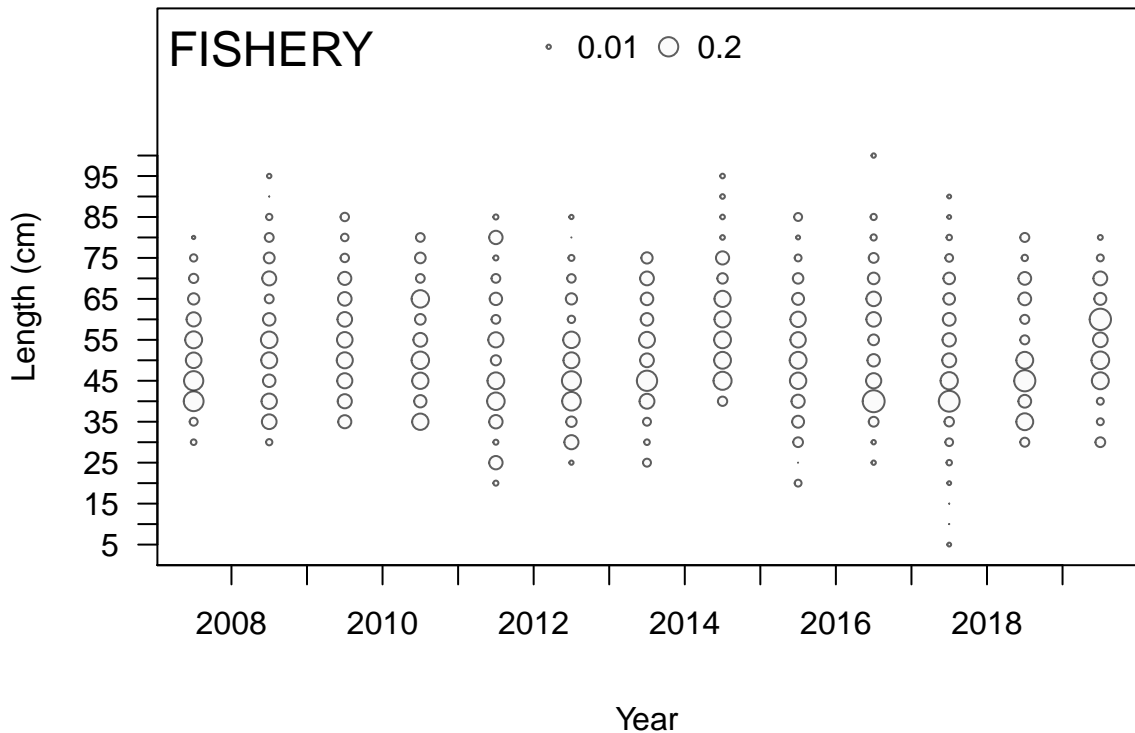




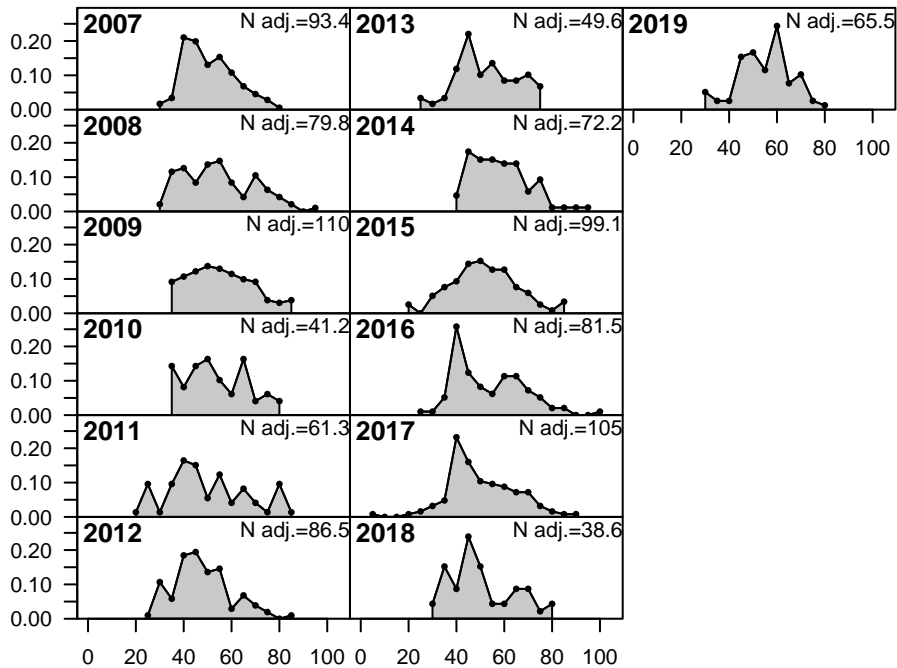
**FISHERY**

Sum of N adj.=983.8

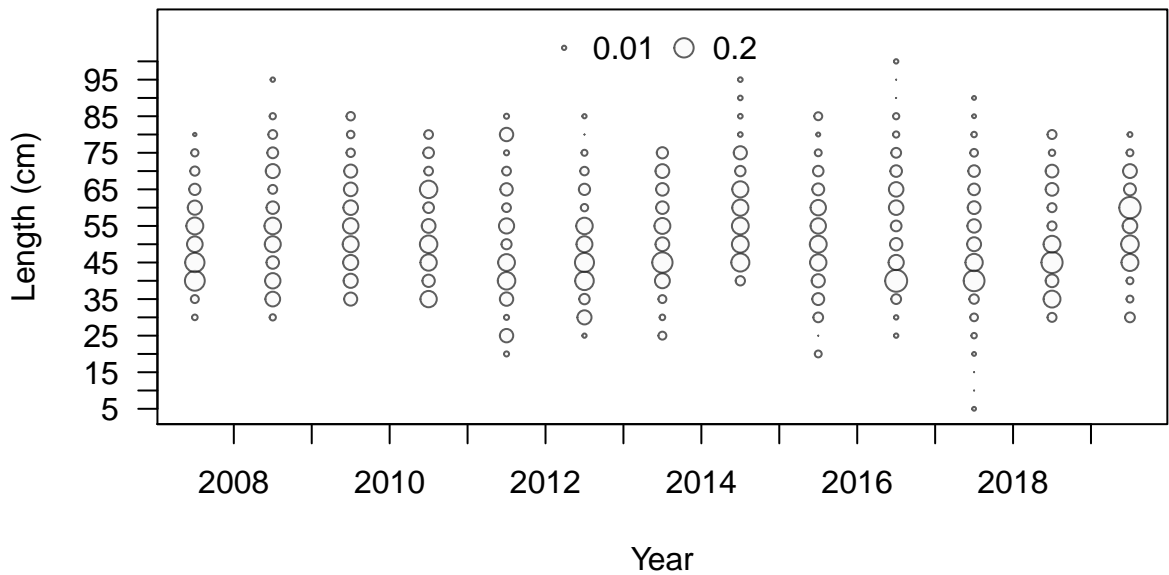




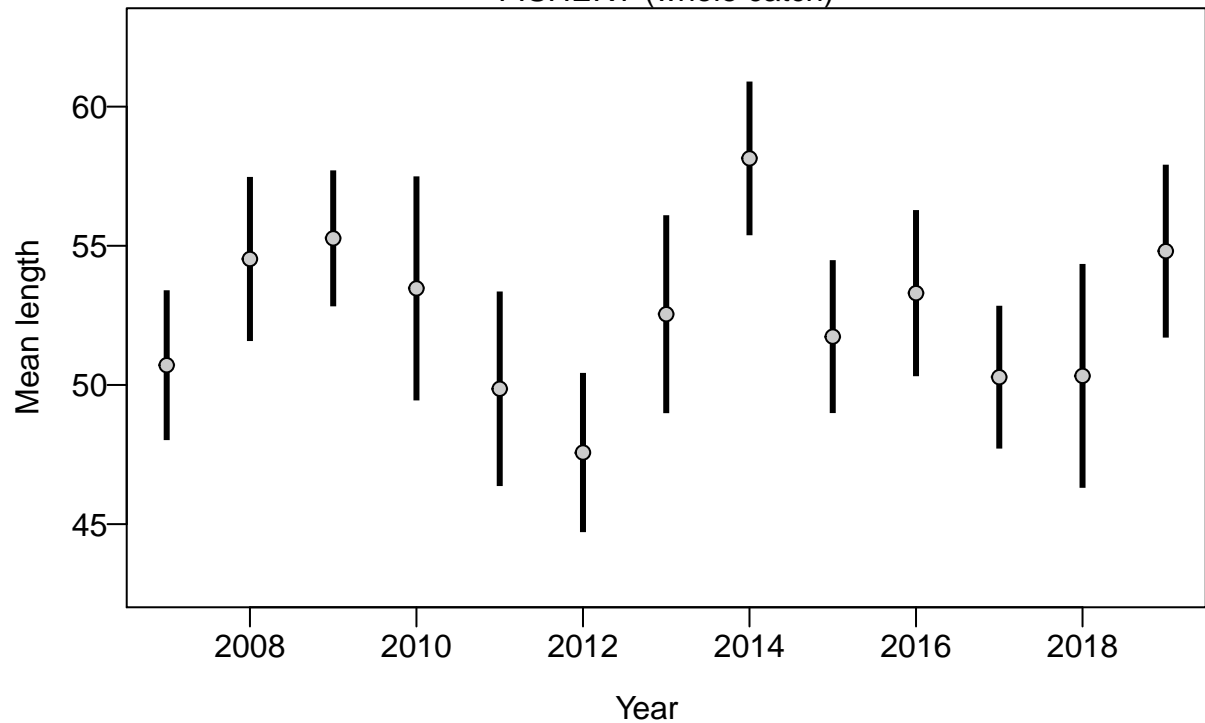
Proportion



Length (cm)

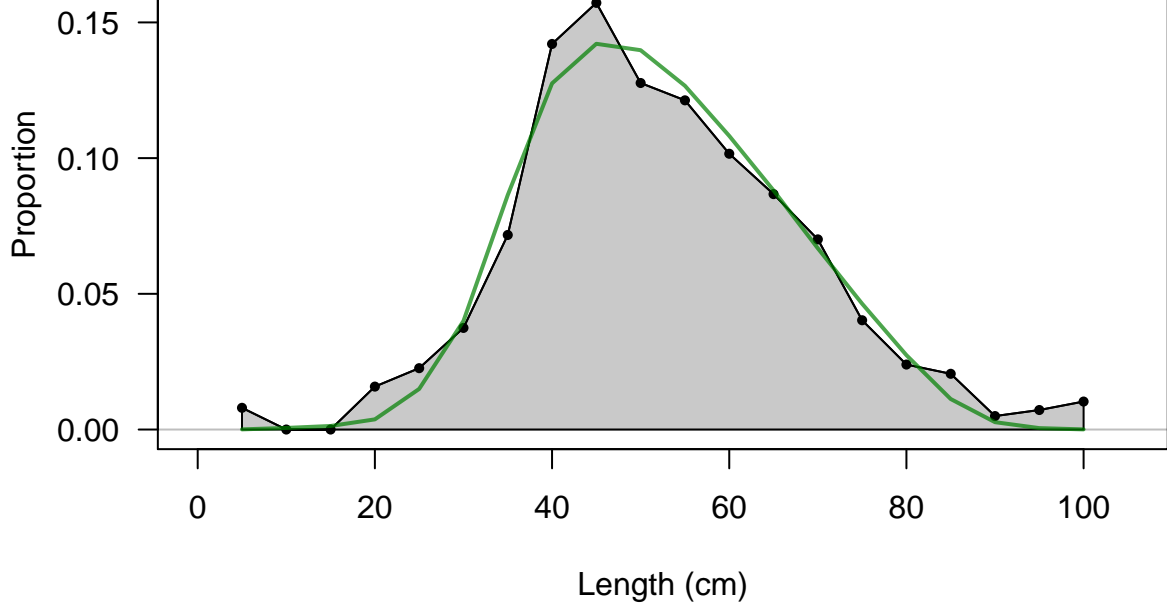


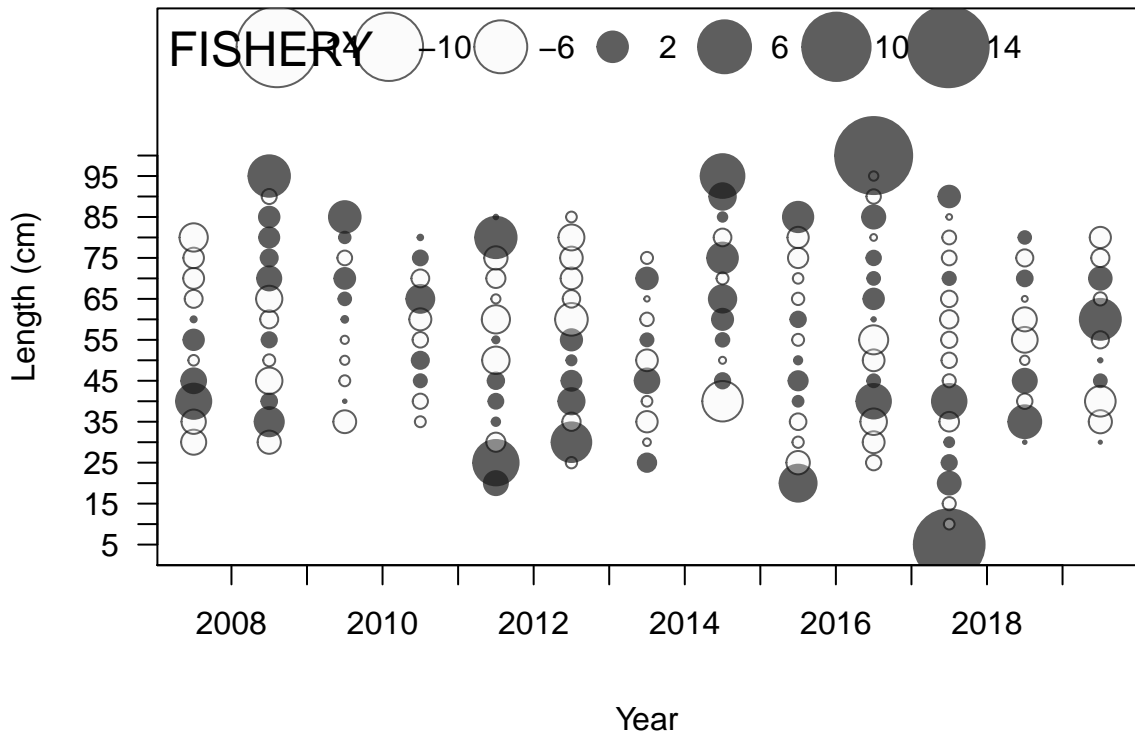
FISHERY (whole catch)



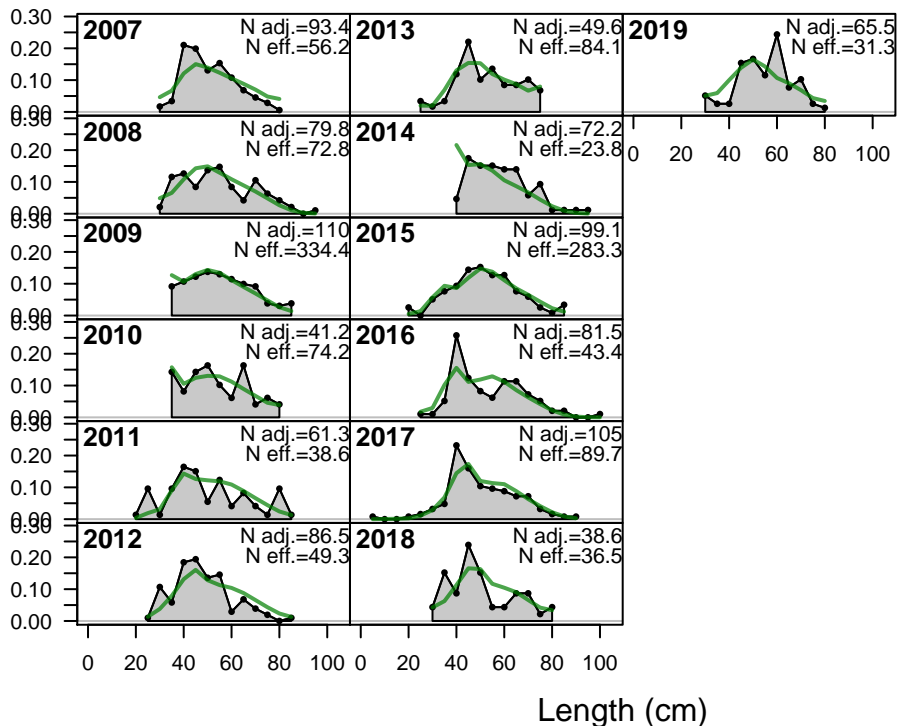
# FISHERY

Sum of N adj.=983.8  
Sum of N eff.=1217.6

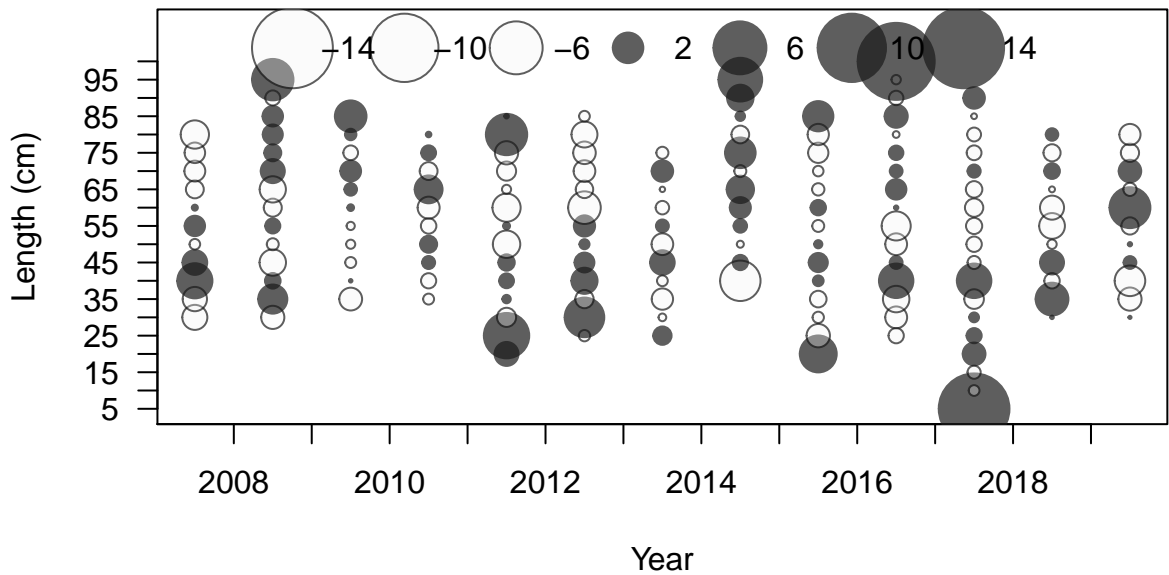




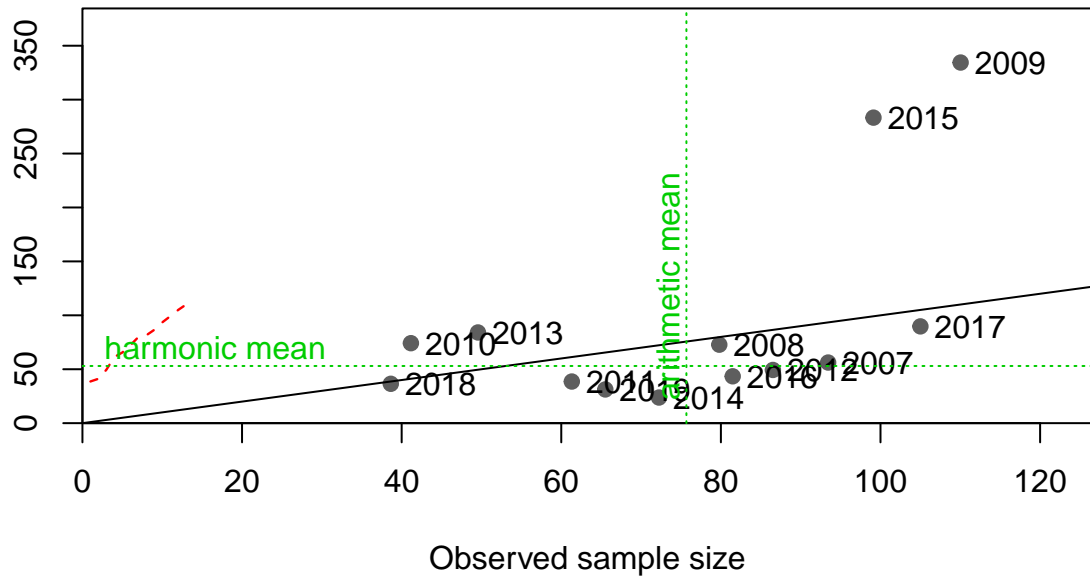
Proportion



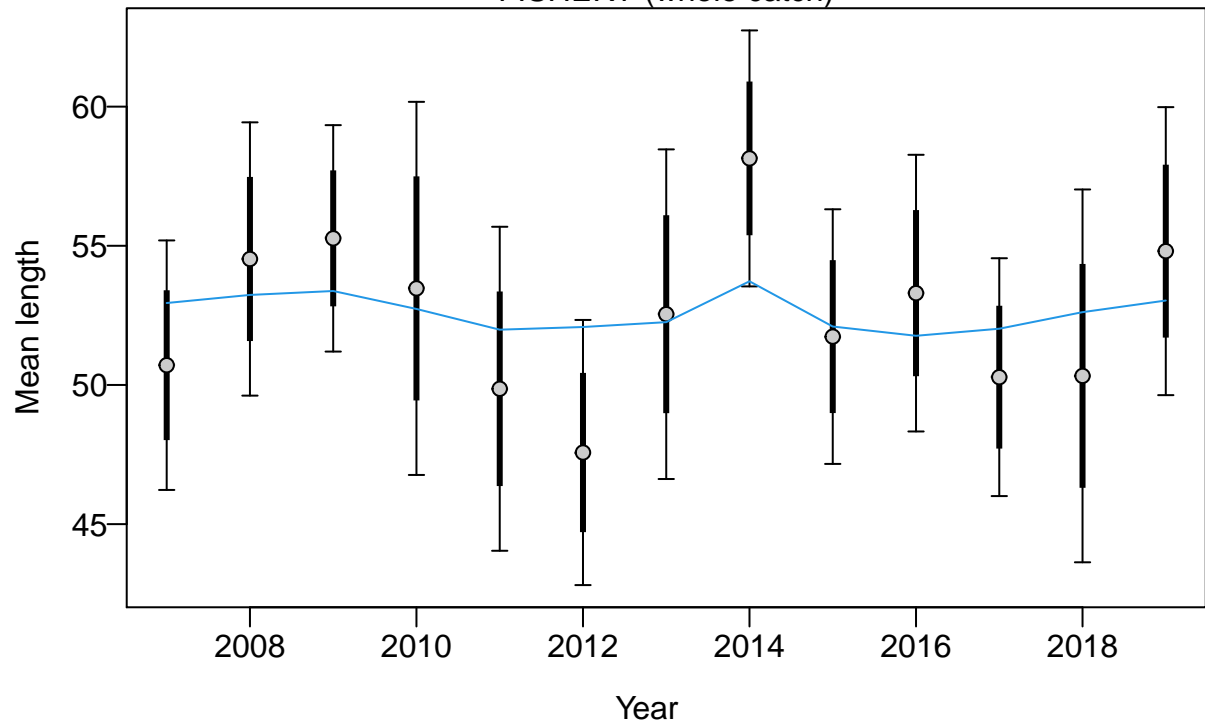


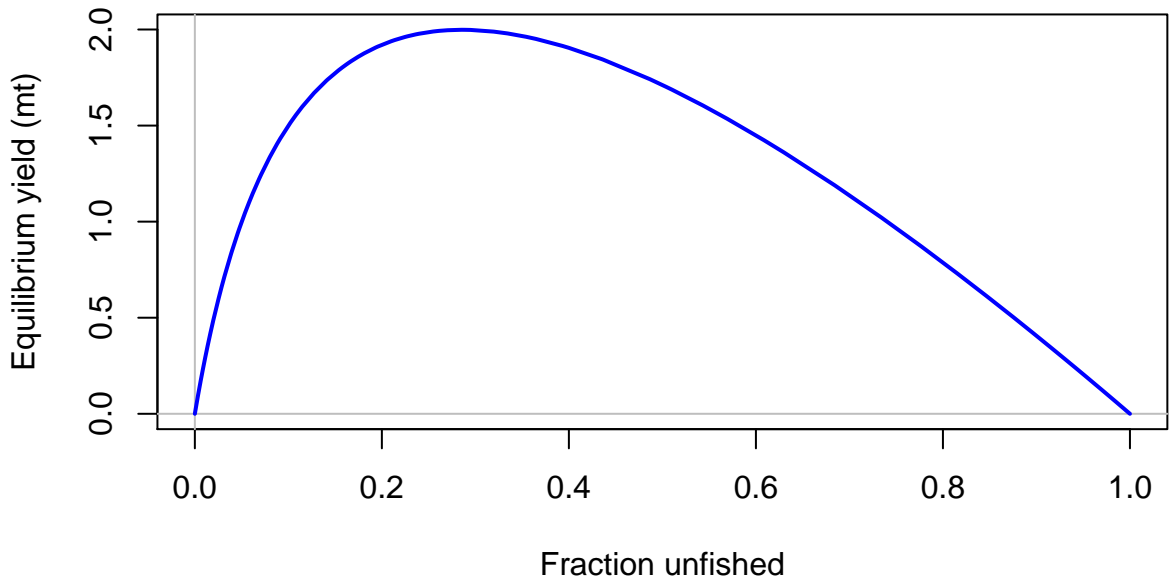


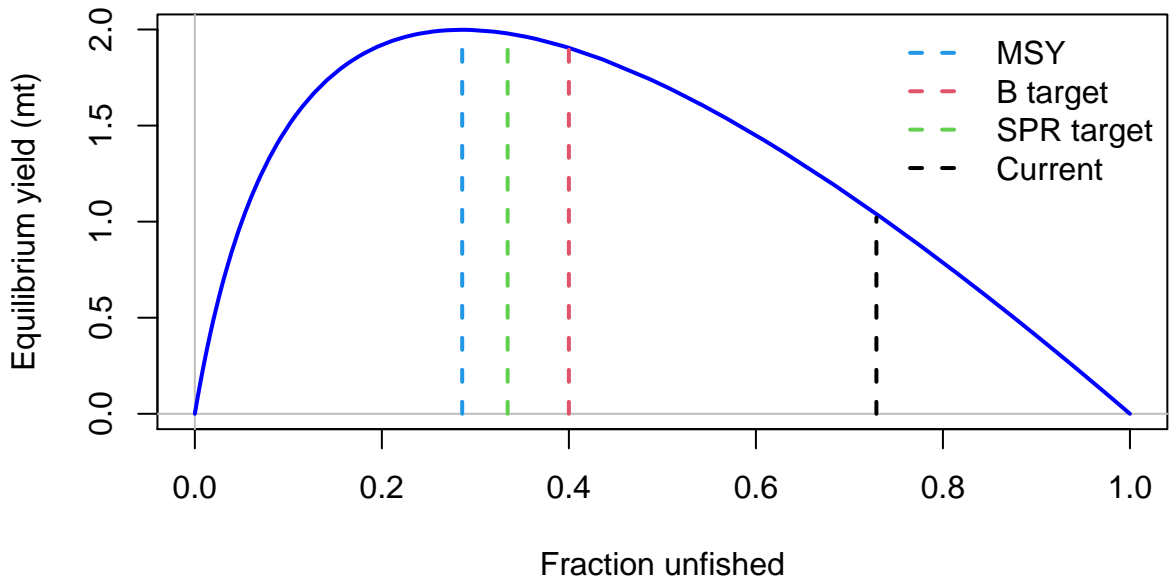
Effective sample size

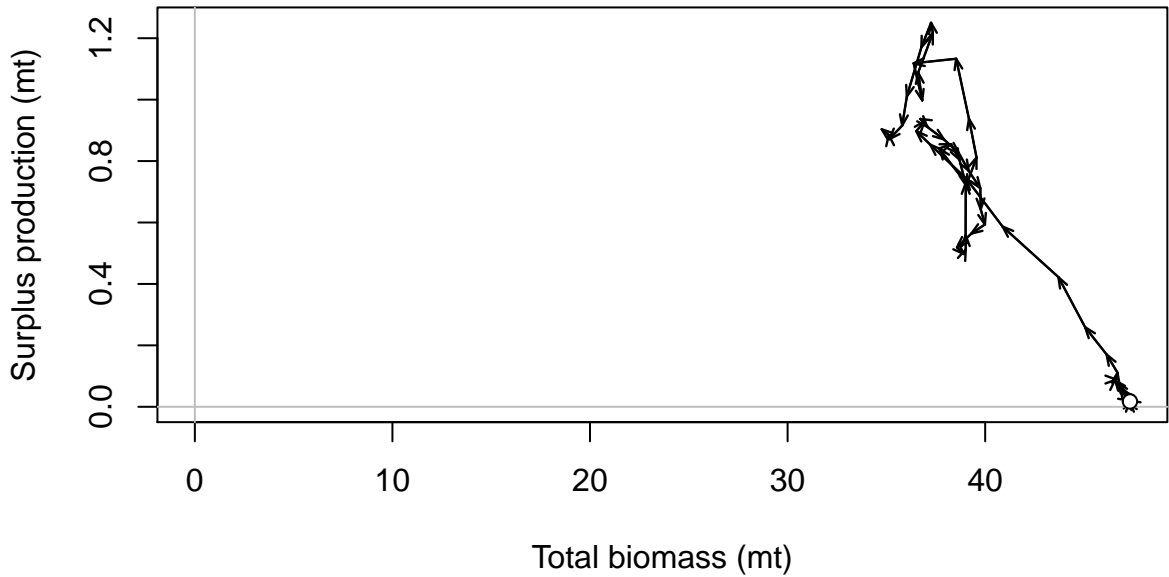


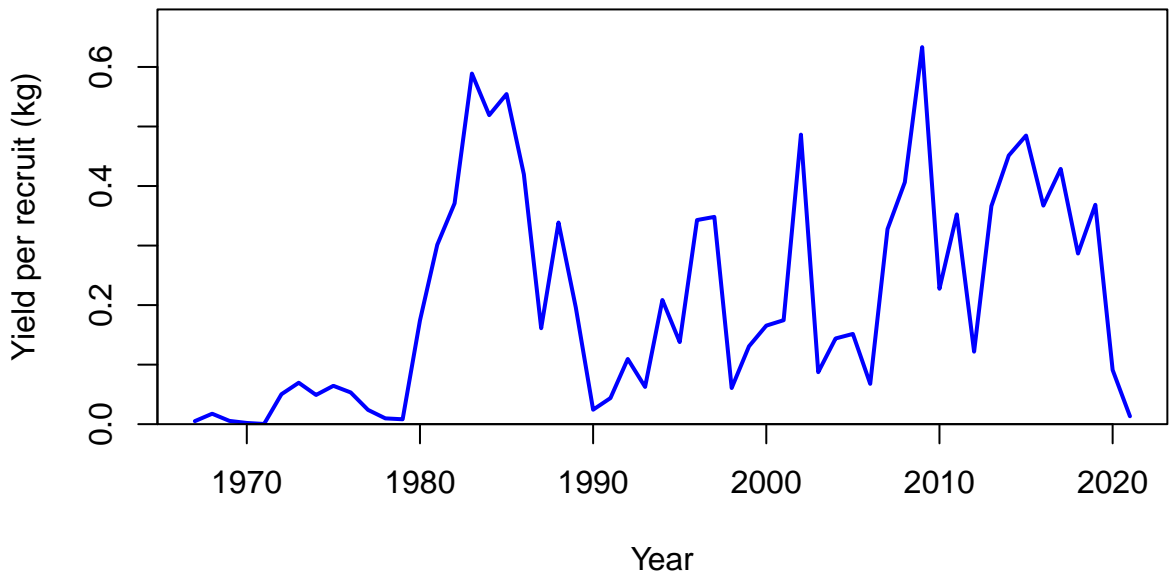
FISHERY (whole catch)

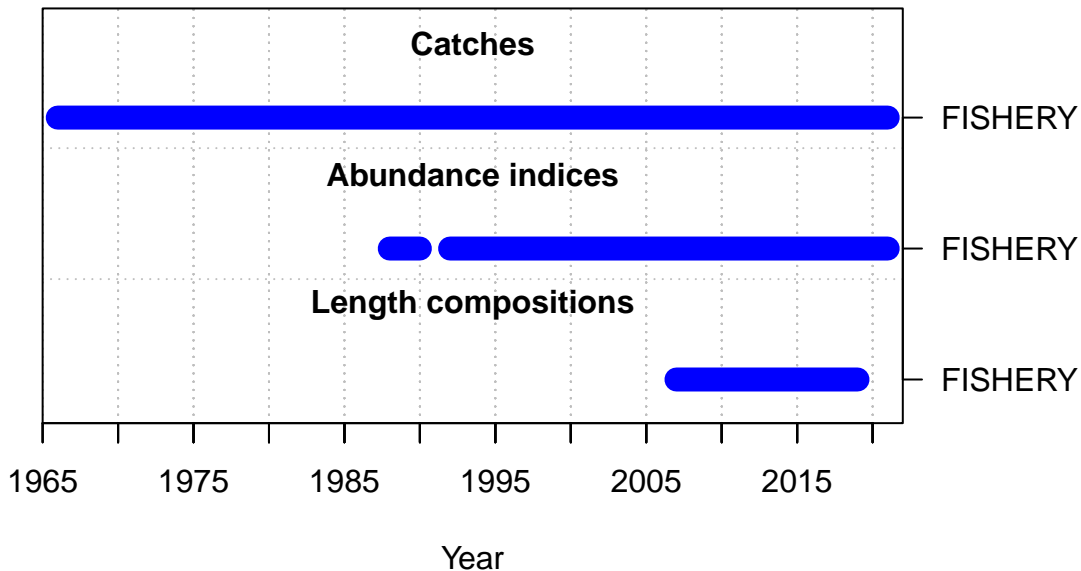




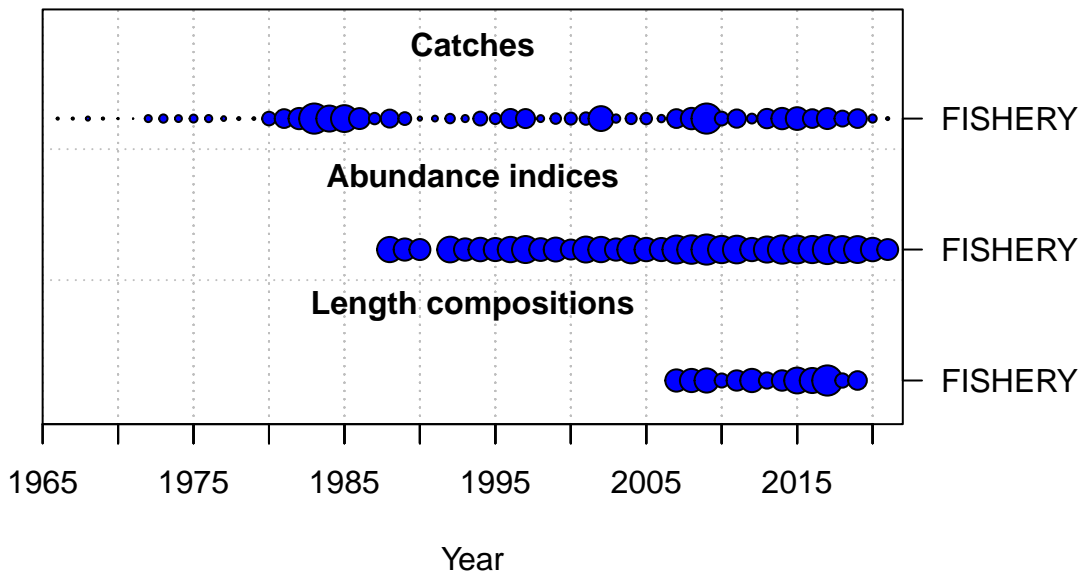






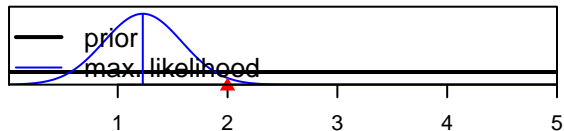




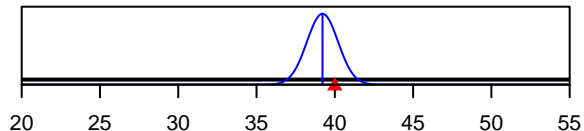


Density

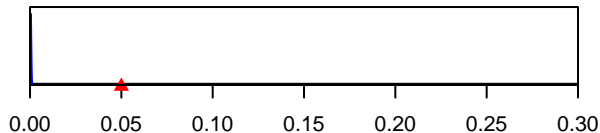
SR\_LN(R0)



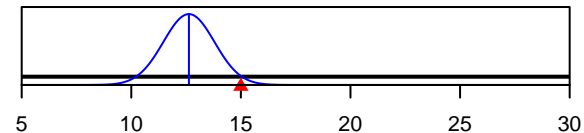
Size\_inflection\_FISHERY(1)



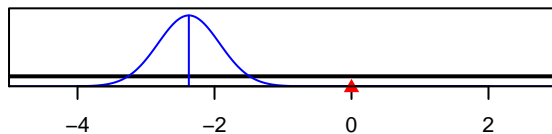
InitF\_seas\_1\_flt\_1FISHERY



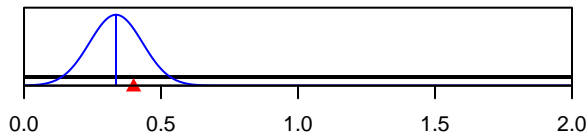
Size\_95%width\_FISHERY(1)



LnQ\_base\_FISHERY(1)



Q\_extraSD\_FISHERY(1)



Parameter value