

Plots created using the 'r4ss' package in R  
Stock Synthesis version: 3.30.19.0  
StartTime: Tue Jul 05 10:34:20 2022  
Data\_File: data.ss  
Control\_File: control.ss

Length (cm, beginning of the year)

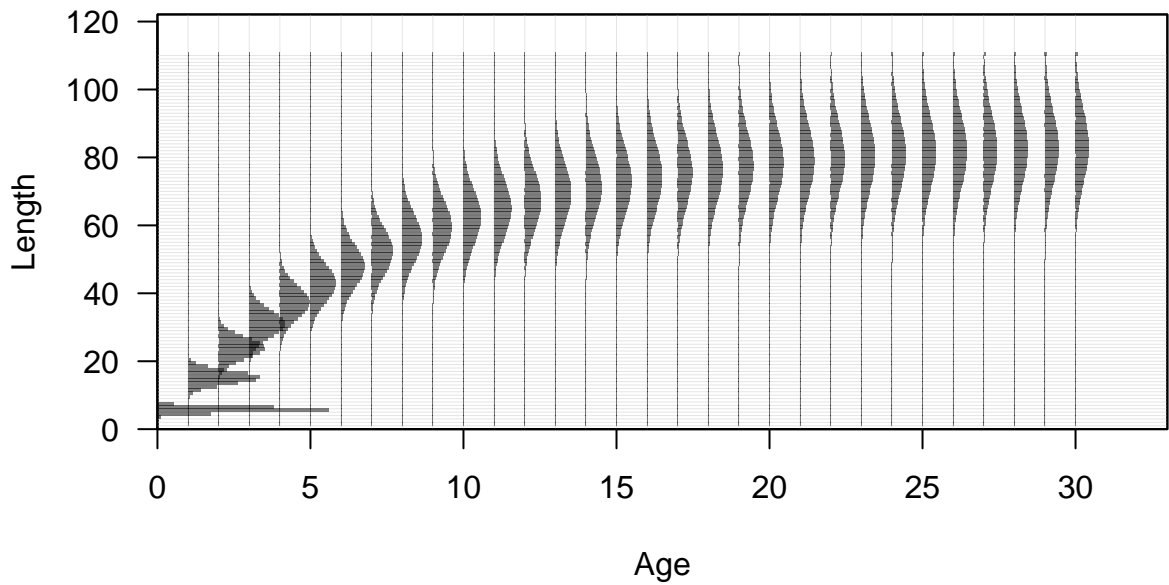


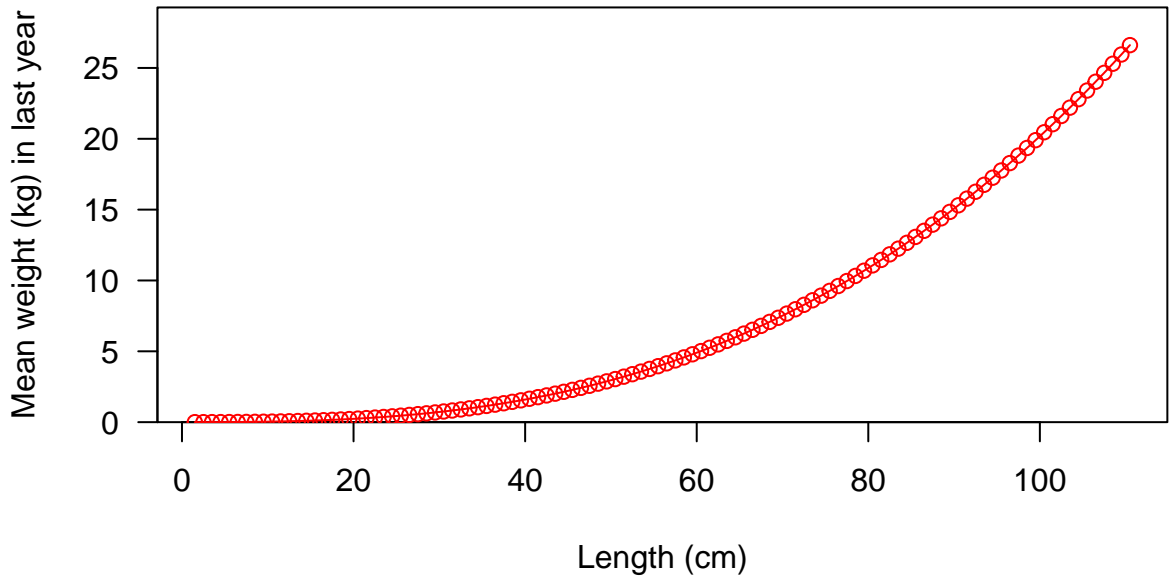
Age (yr)







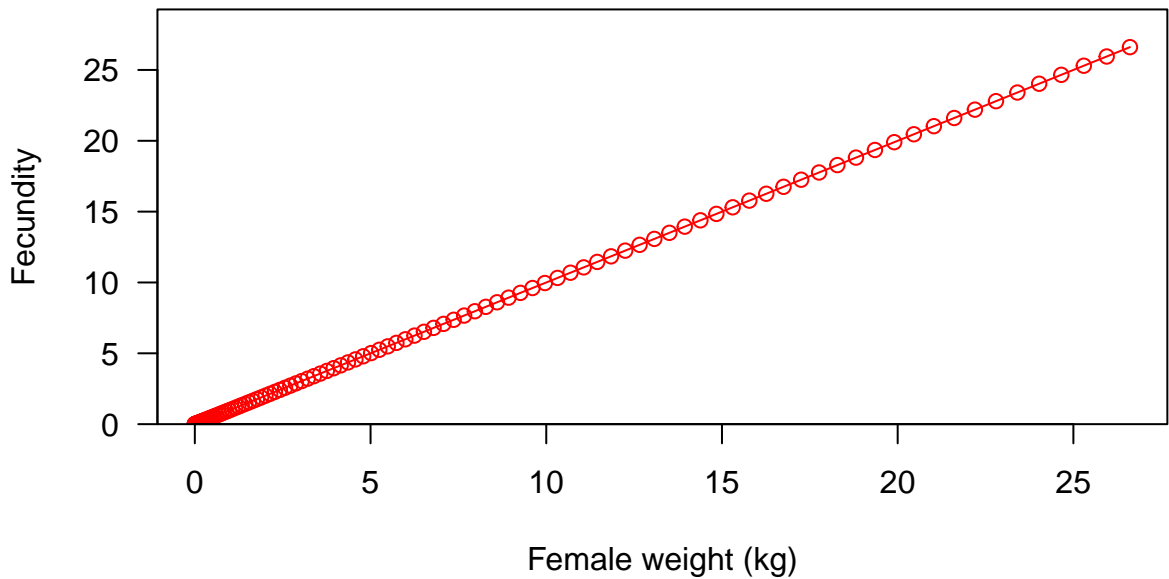




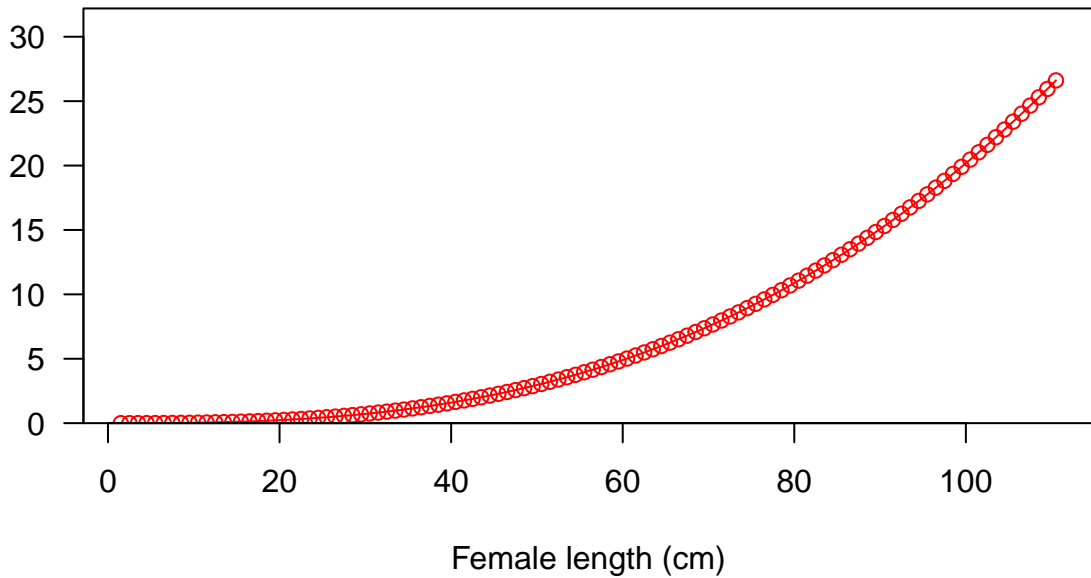








Fecundity



Spawning output

25  
20  
15  
10  
5  
0

0

20

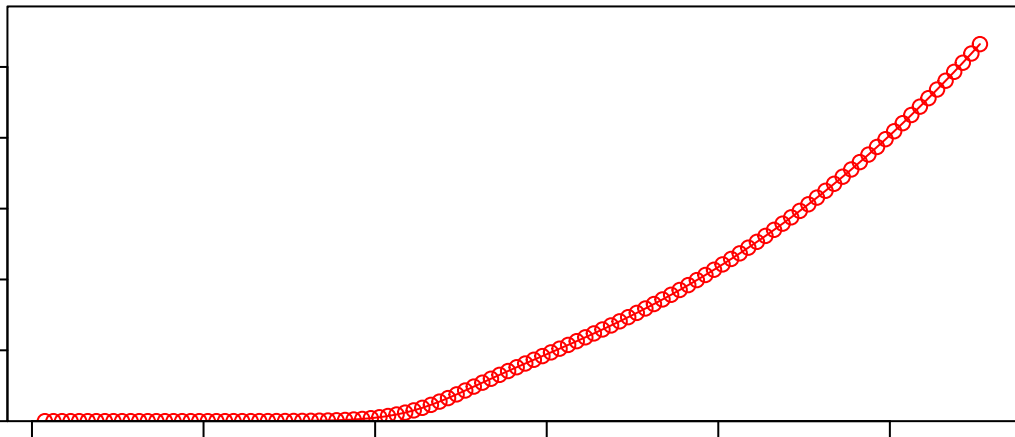
40

60

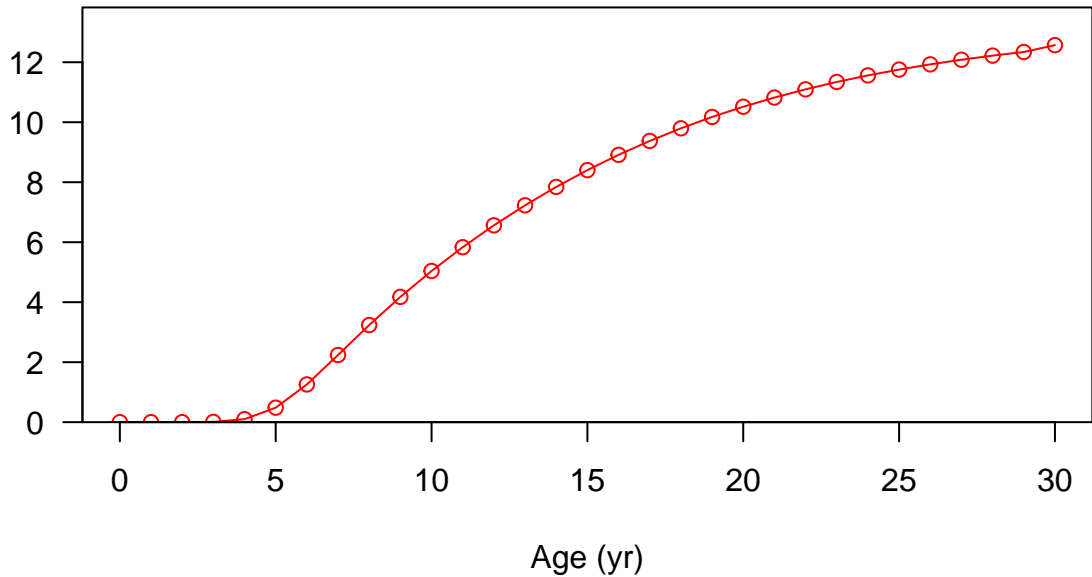
80

100

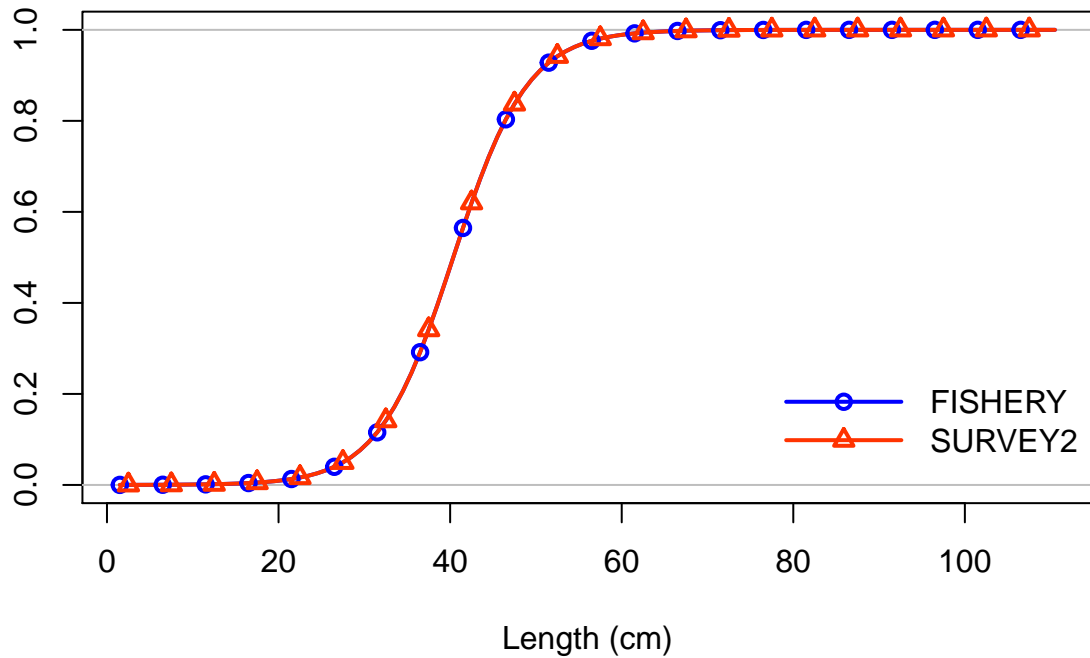
Length (cm)



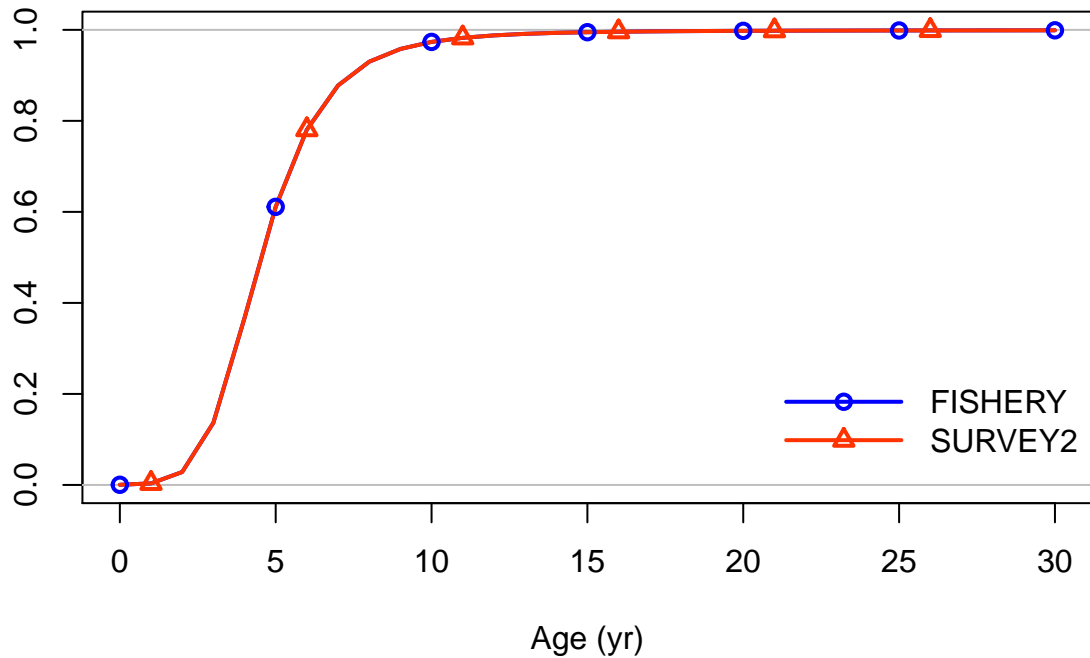
Spawning output



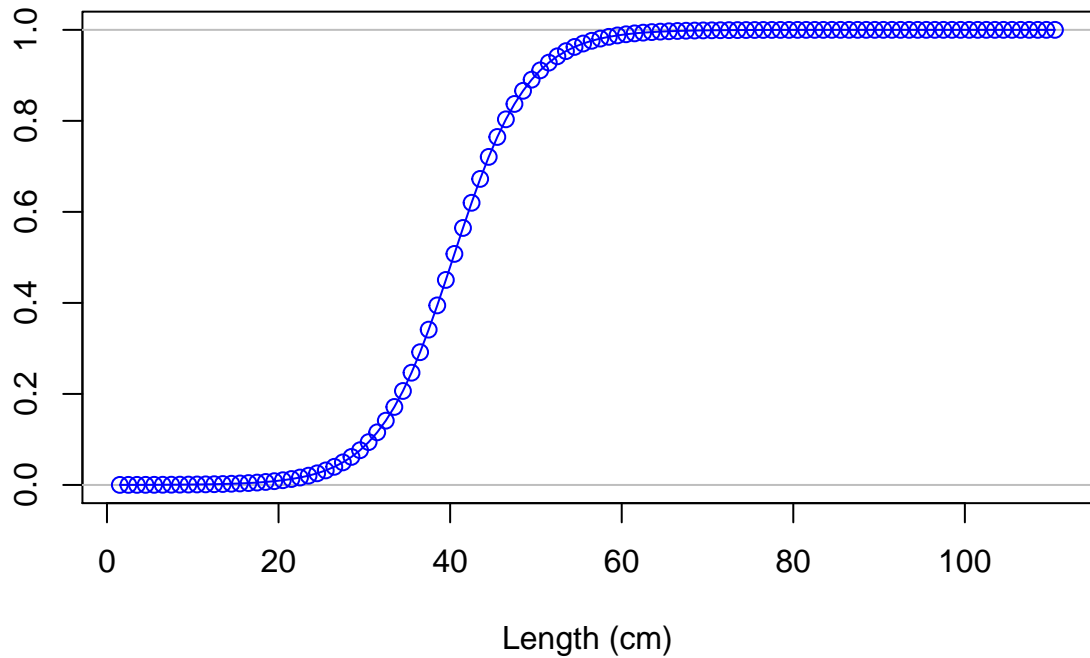
Selectivity



Selectivity

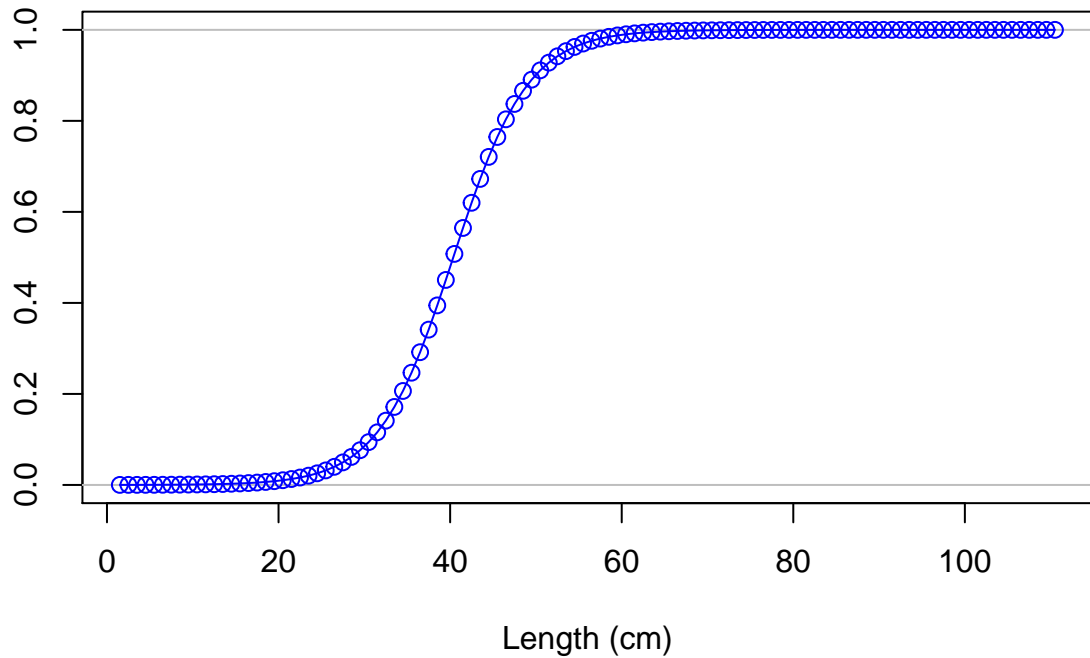


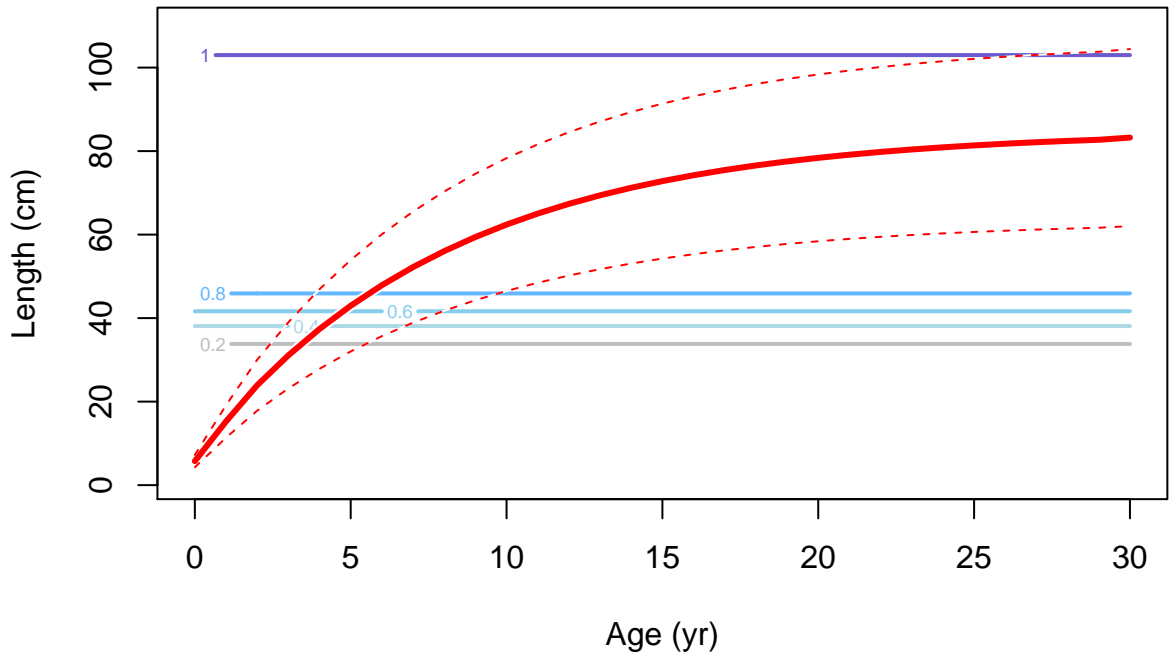
Selectivity

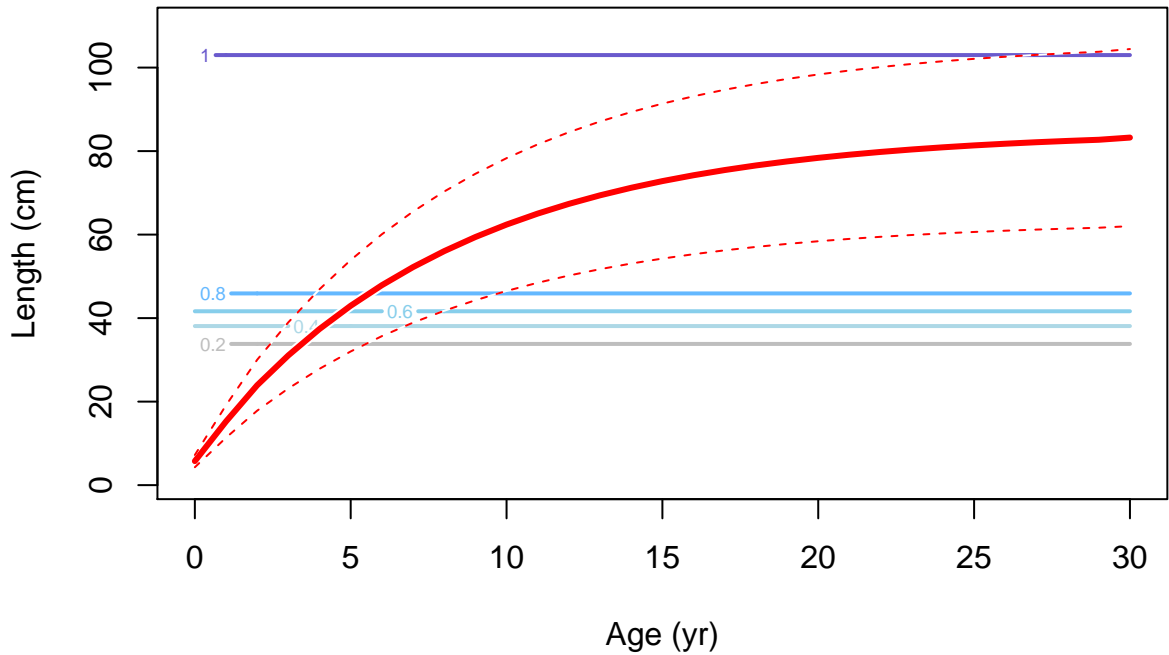


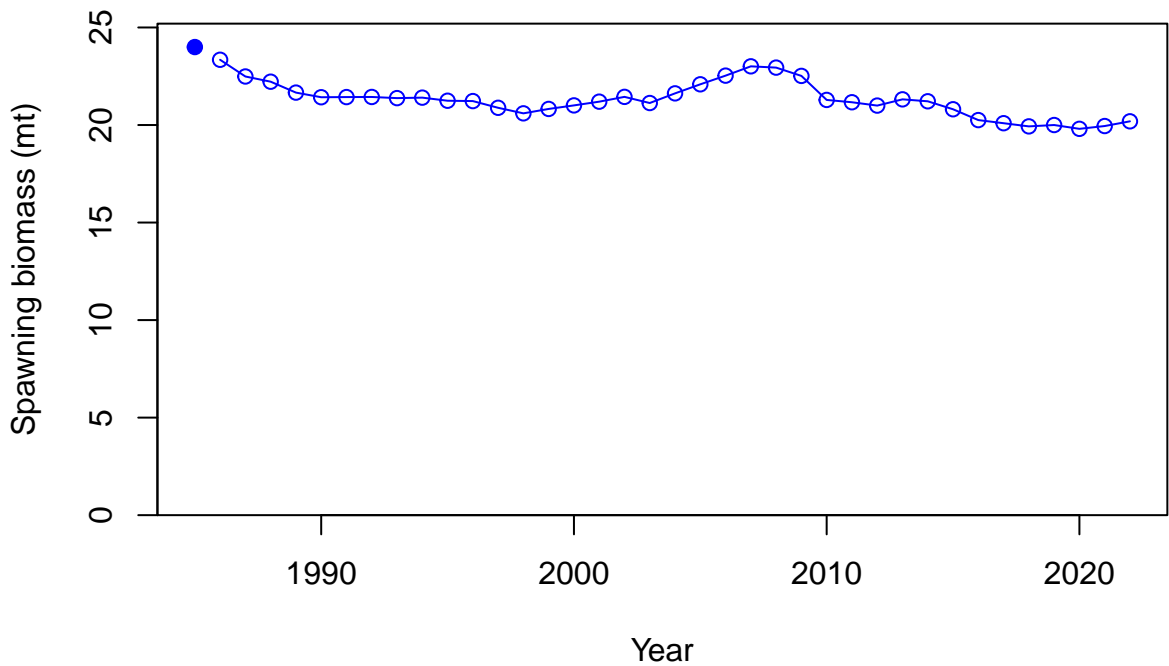


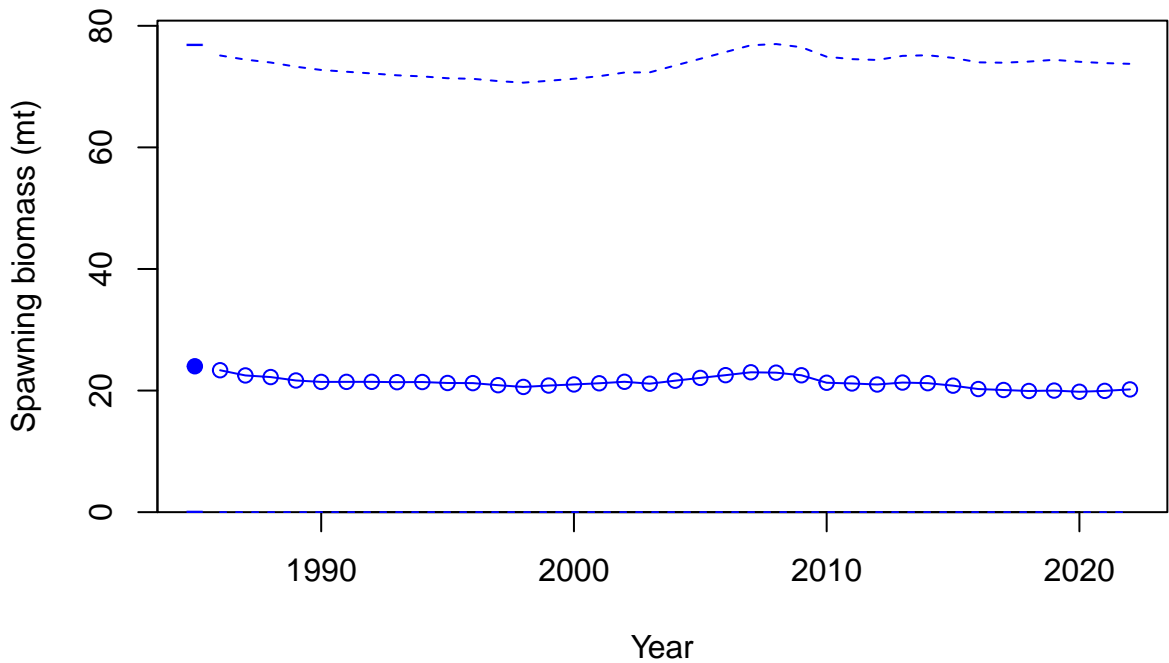
Selectivity



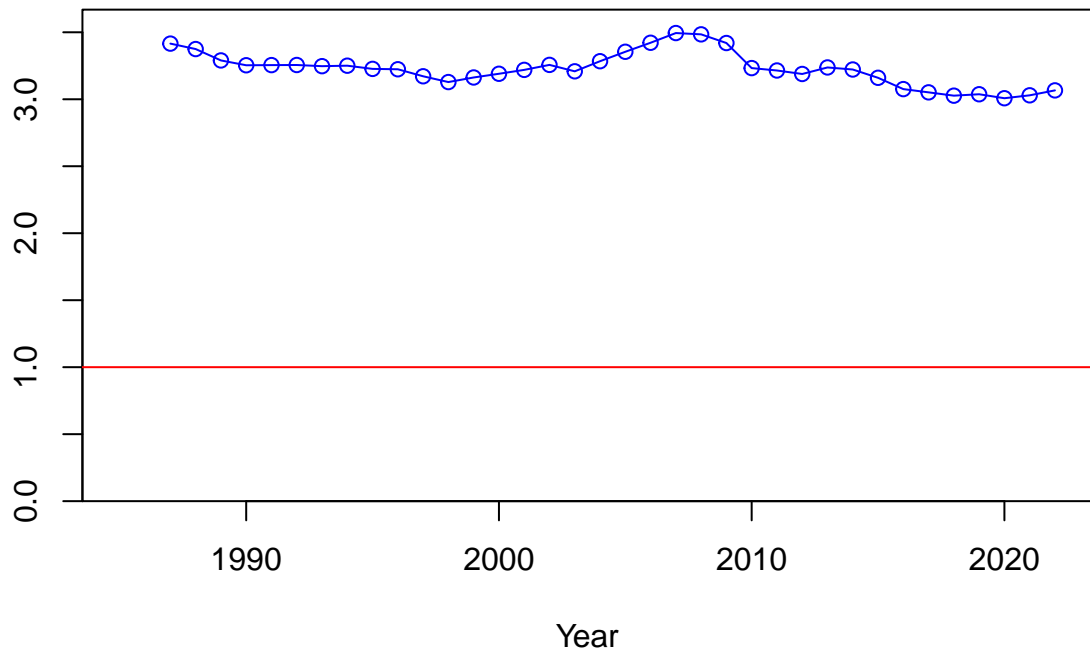




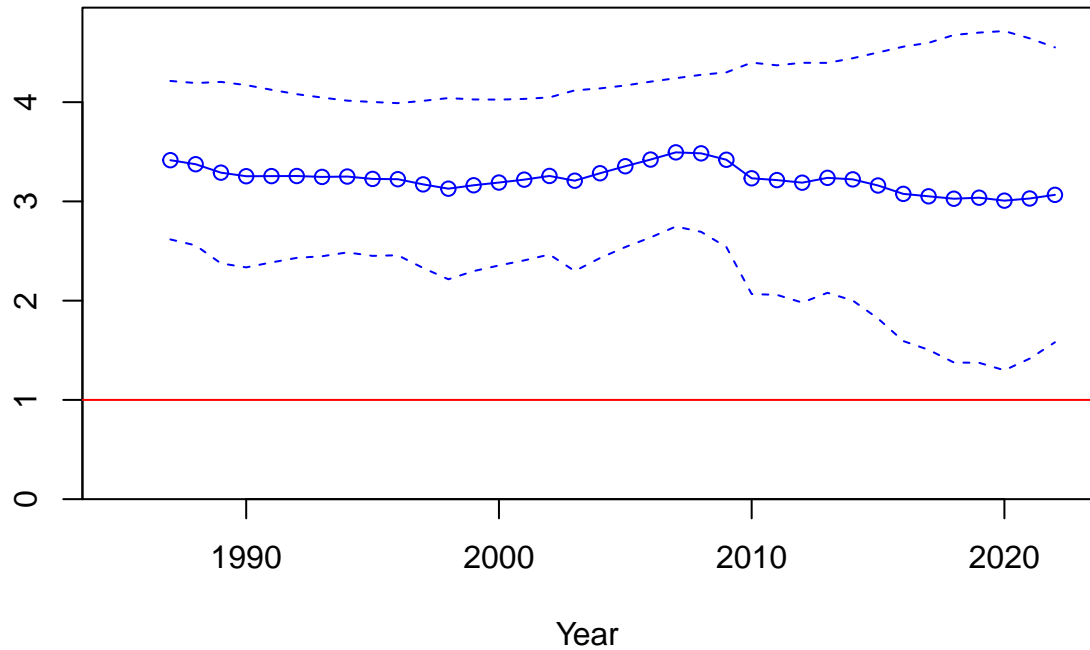


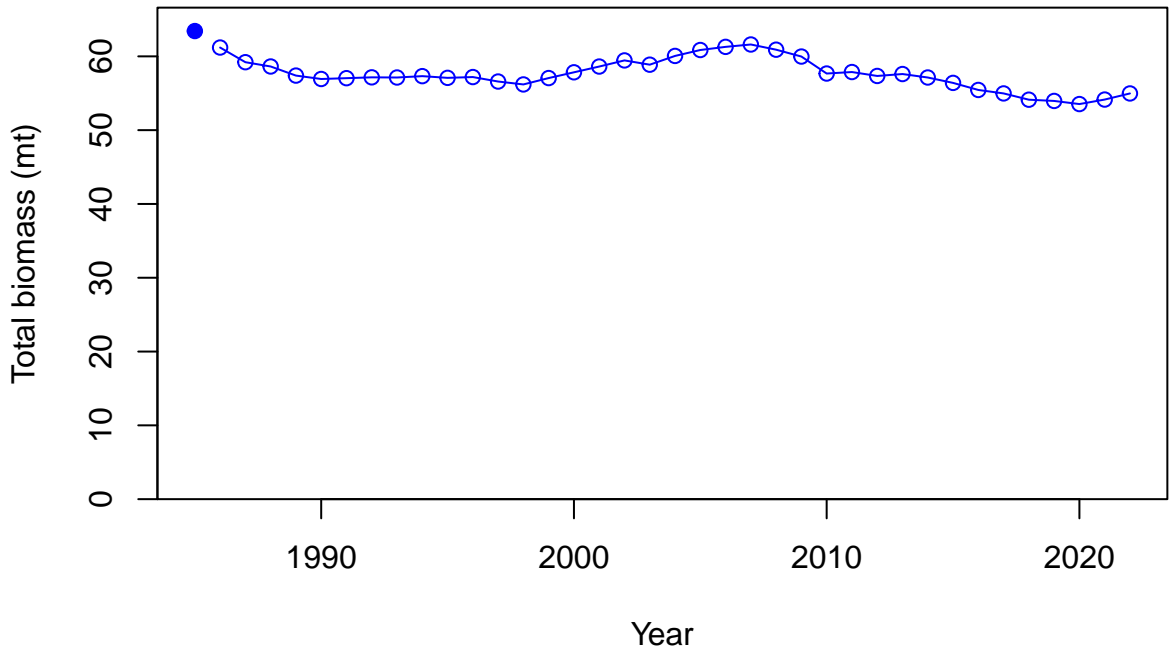


Relative spawning biomass:  $B/B_{MSY}$

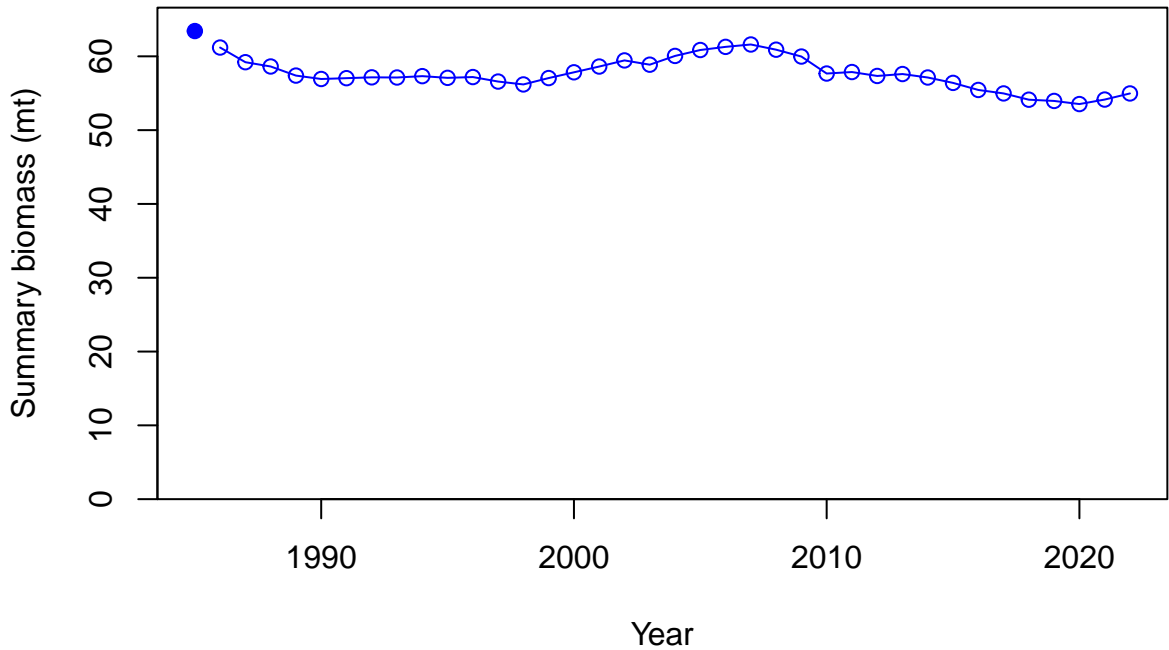


Relative spawning biomass:  $B/B_{MSY}$

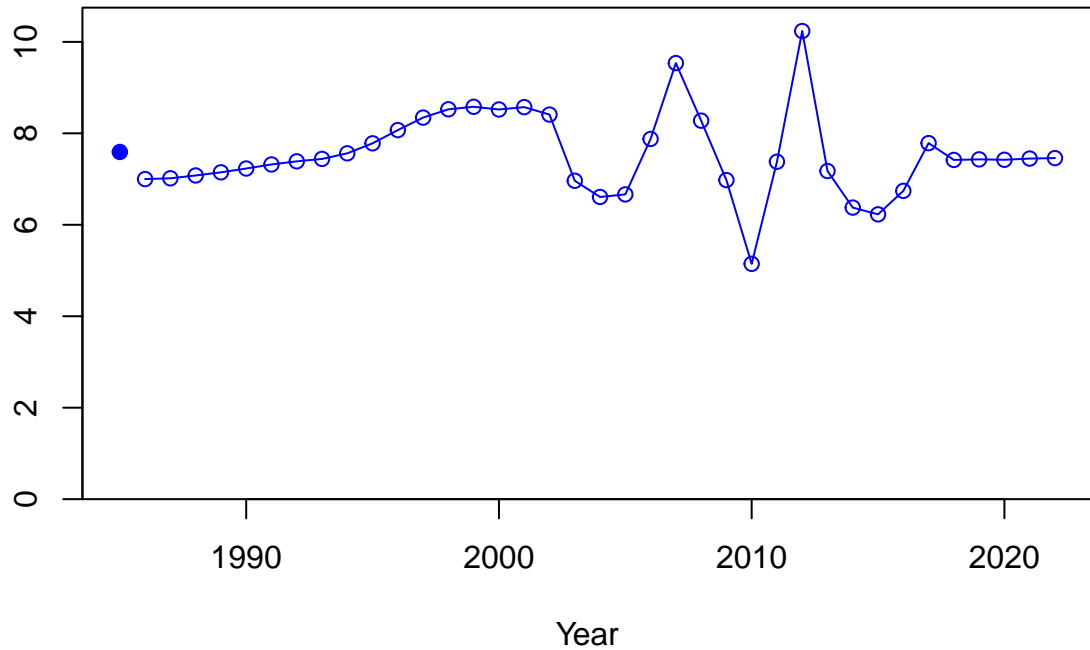


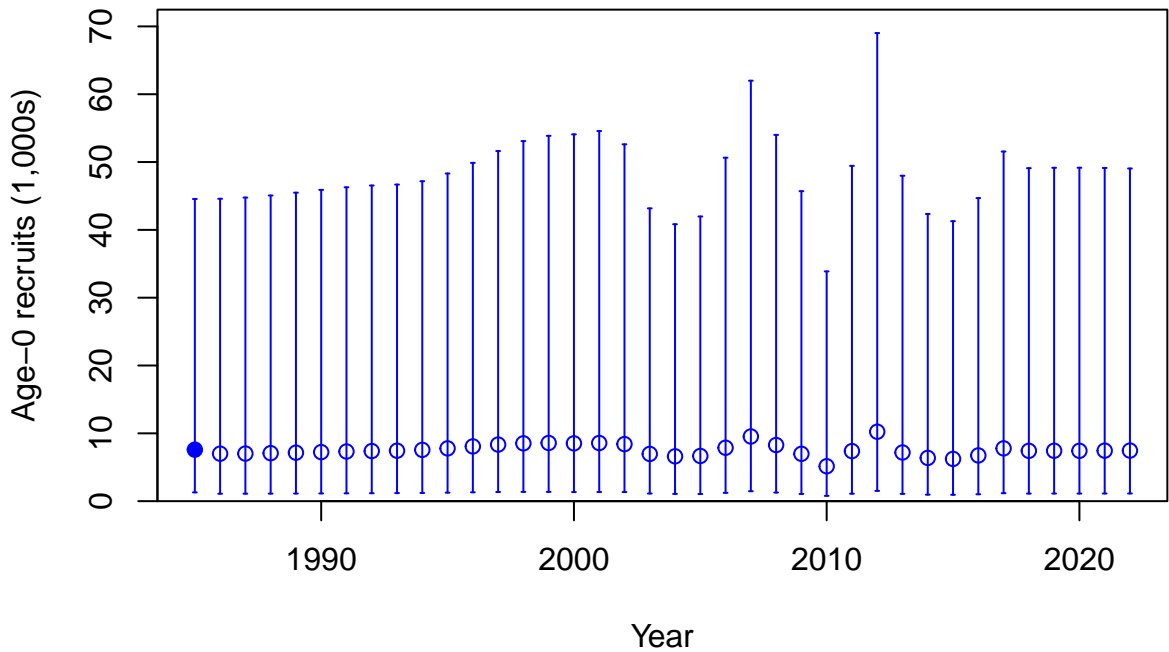




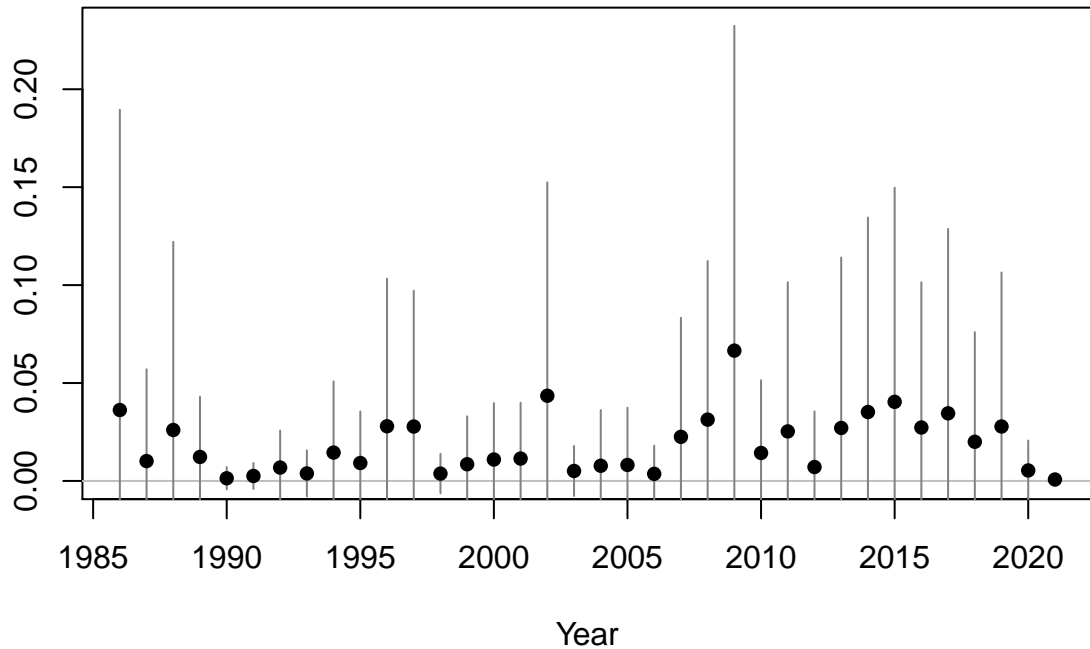


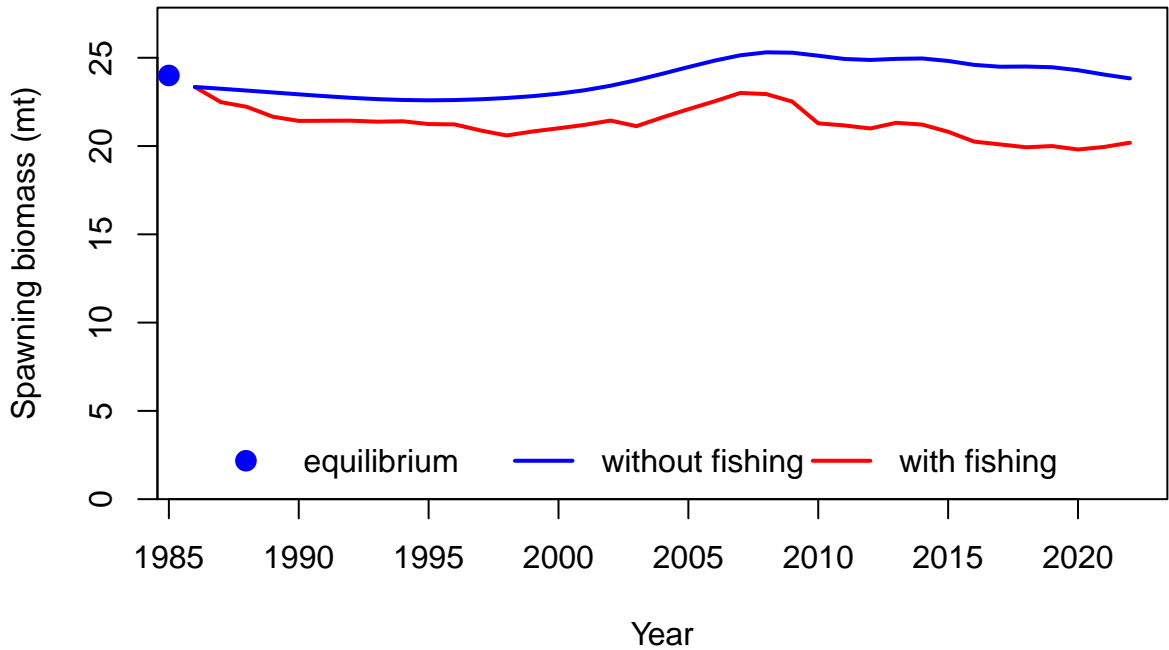
Age-0 recruits (1,000s)



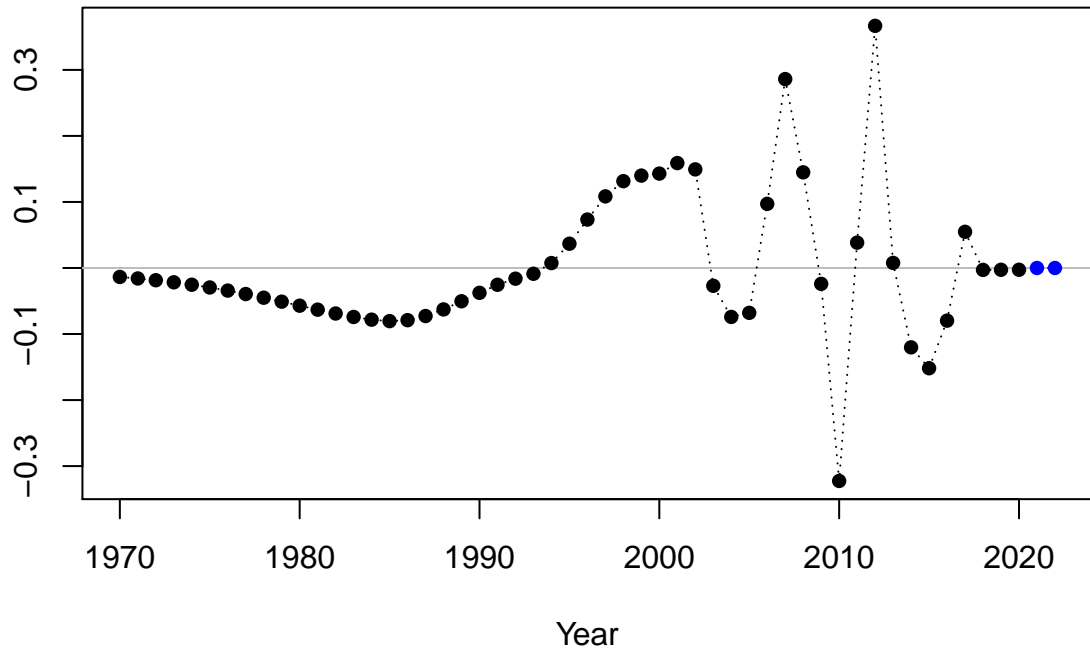


Summary Fishing Mortality

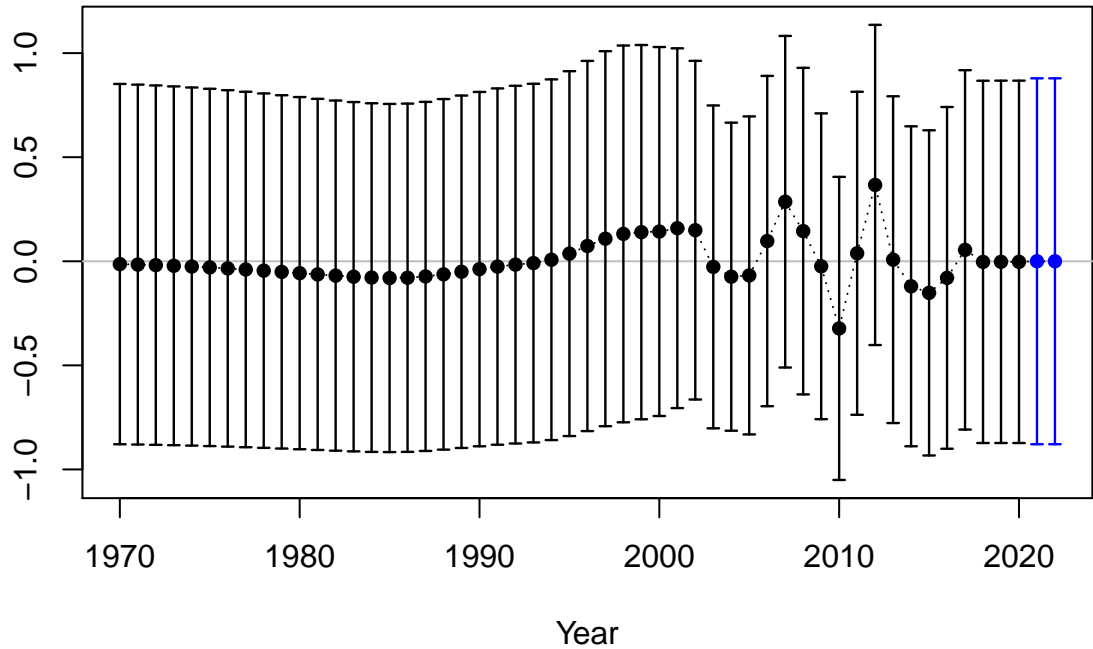




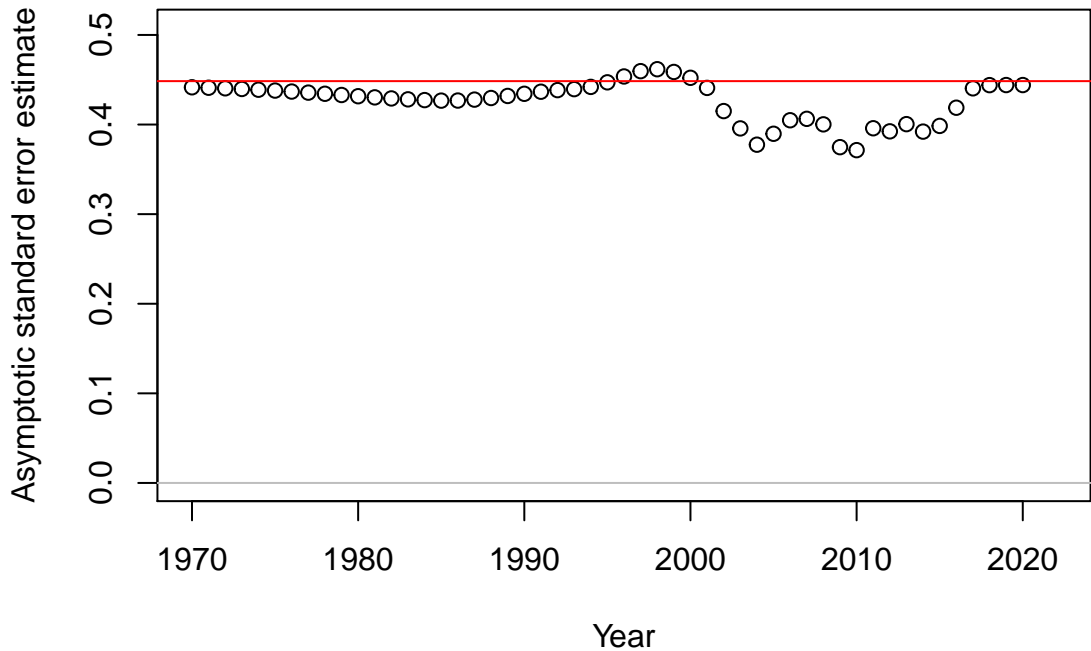
Log recruitment deviation



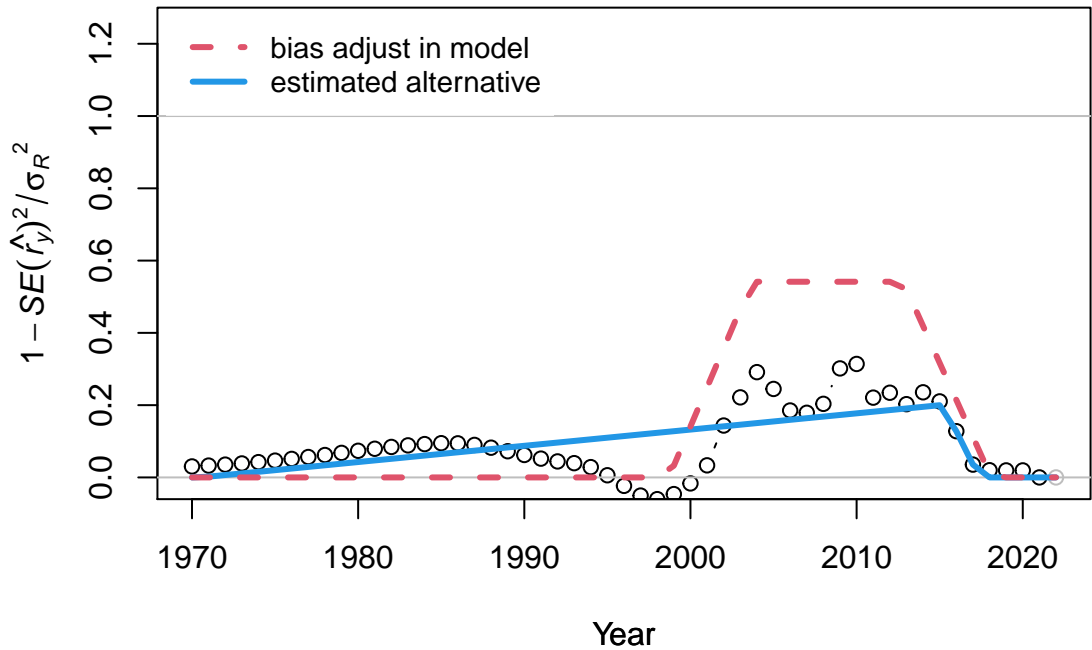
Log recruitment deviation

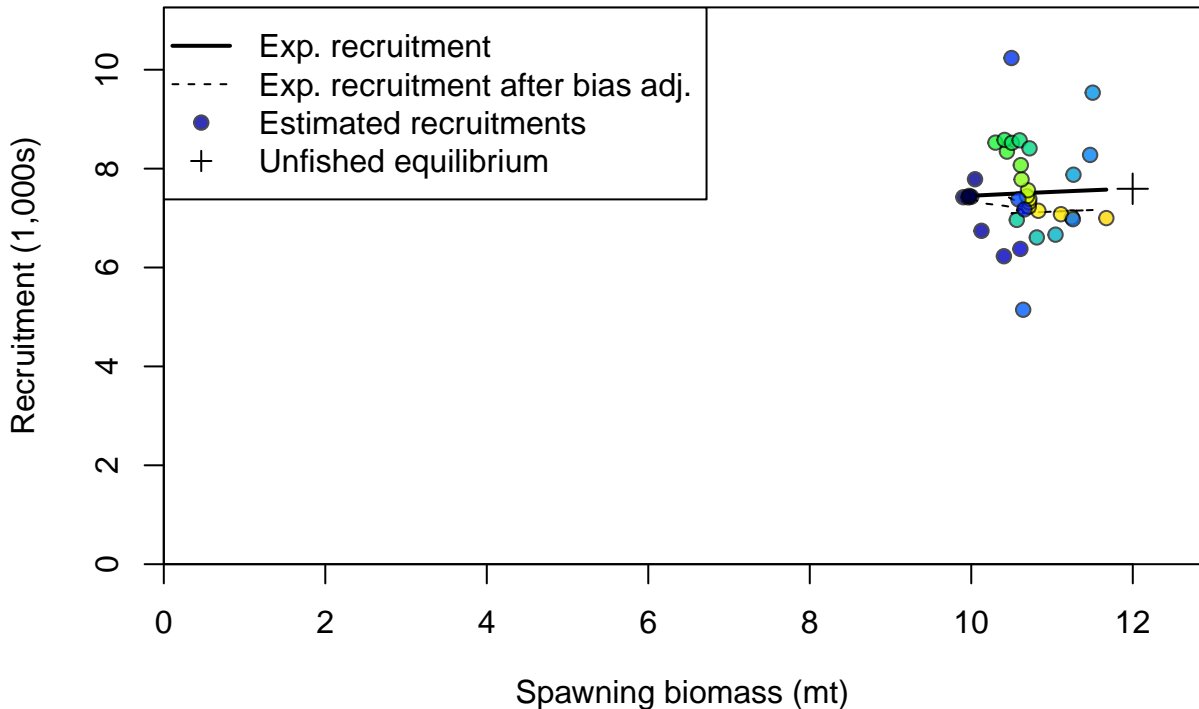


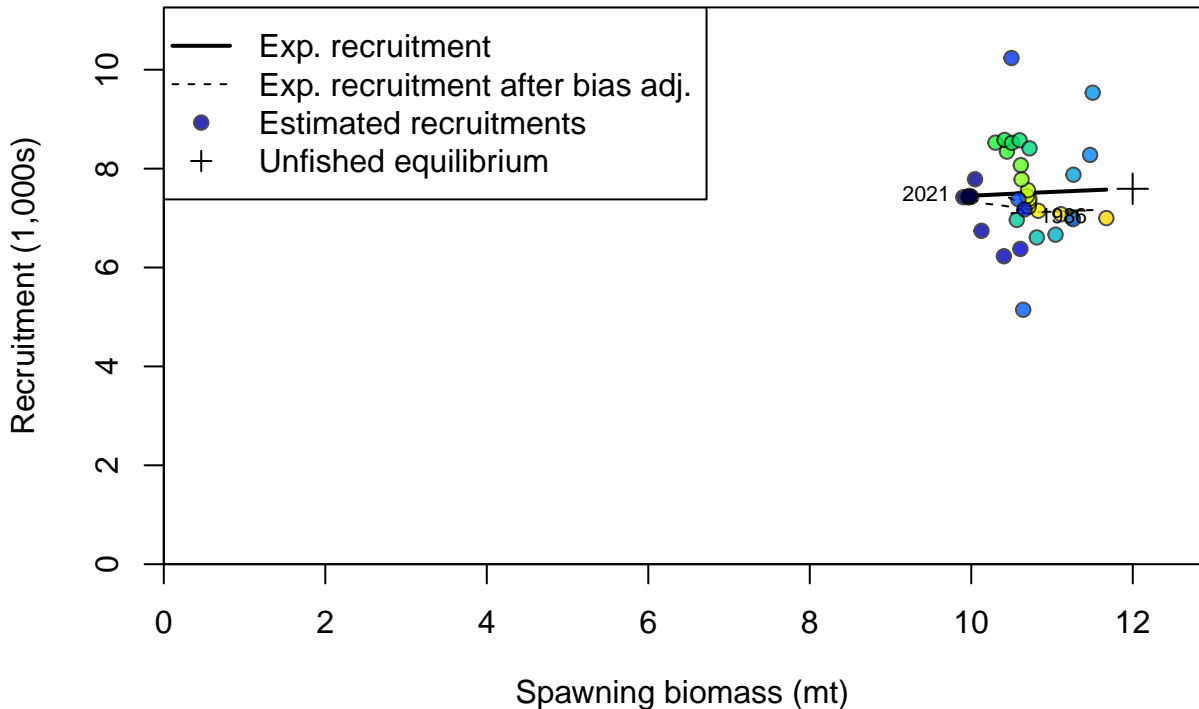
## Recruitment deviation variance



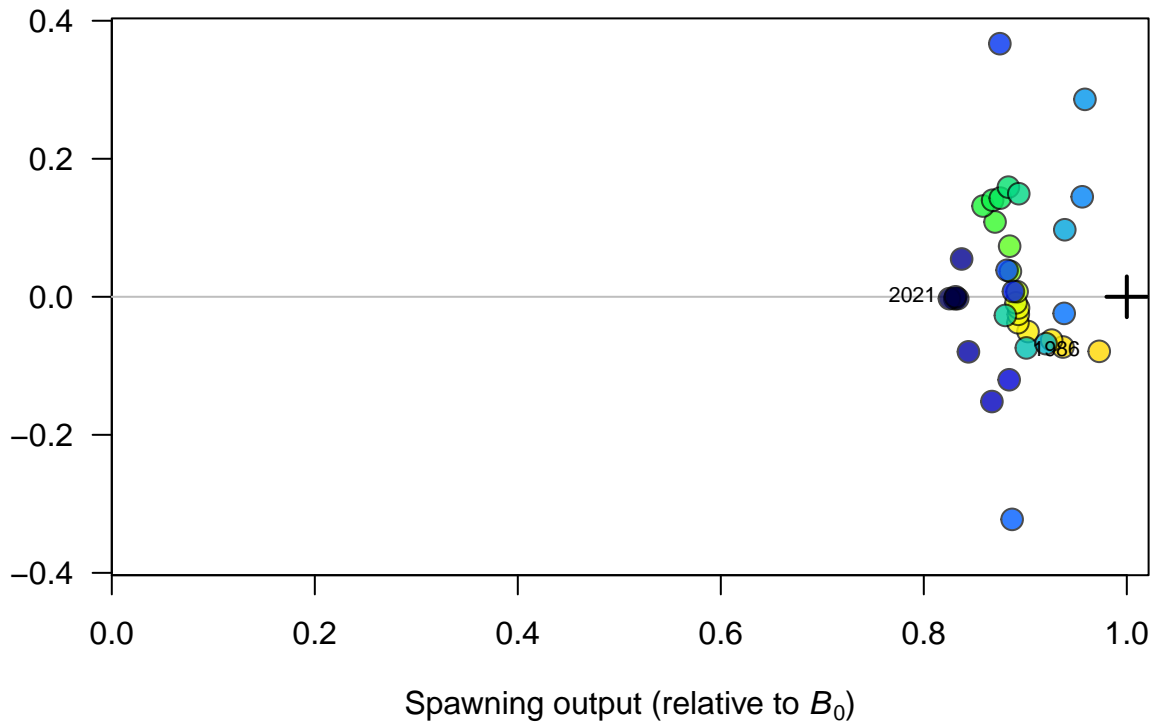


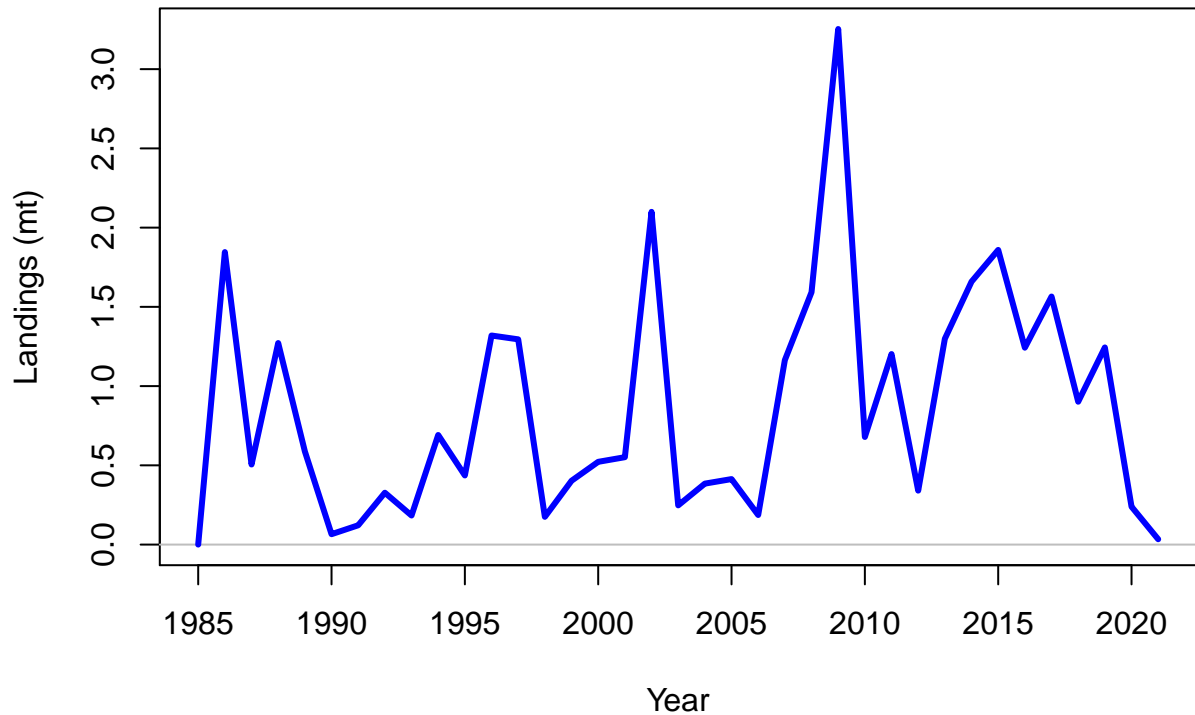


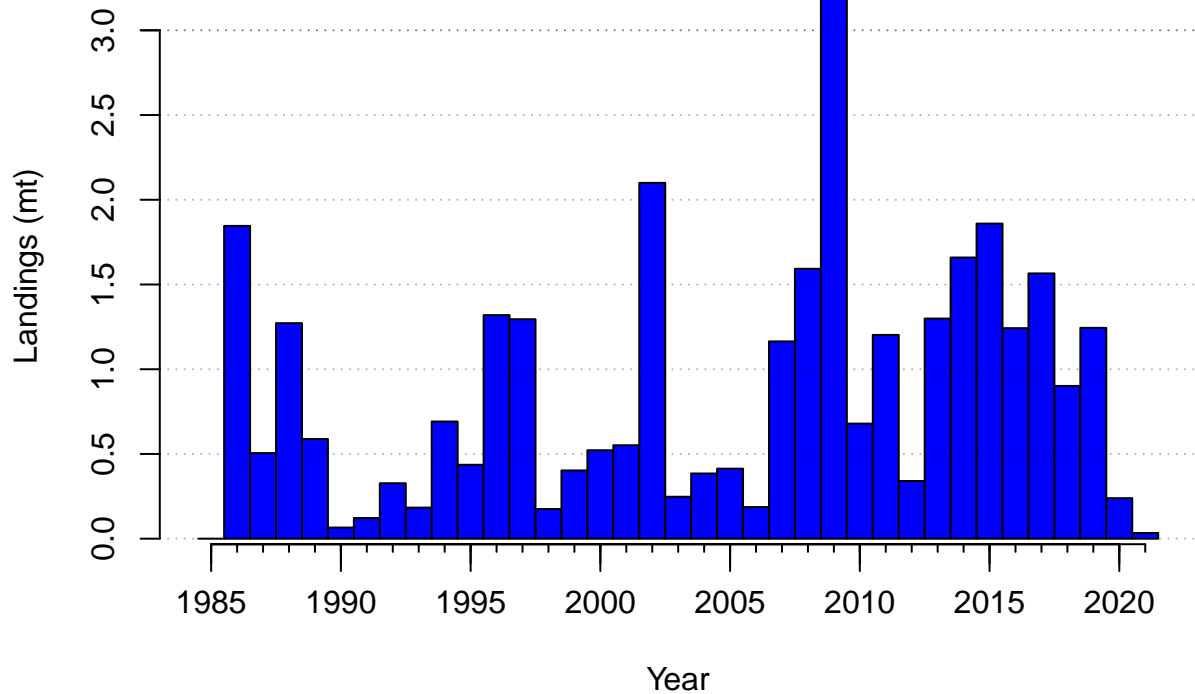


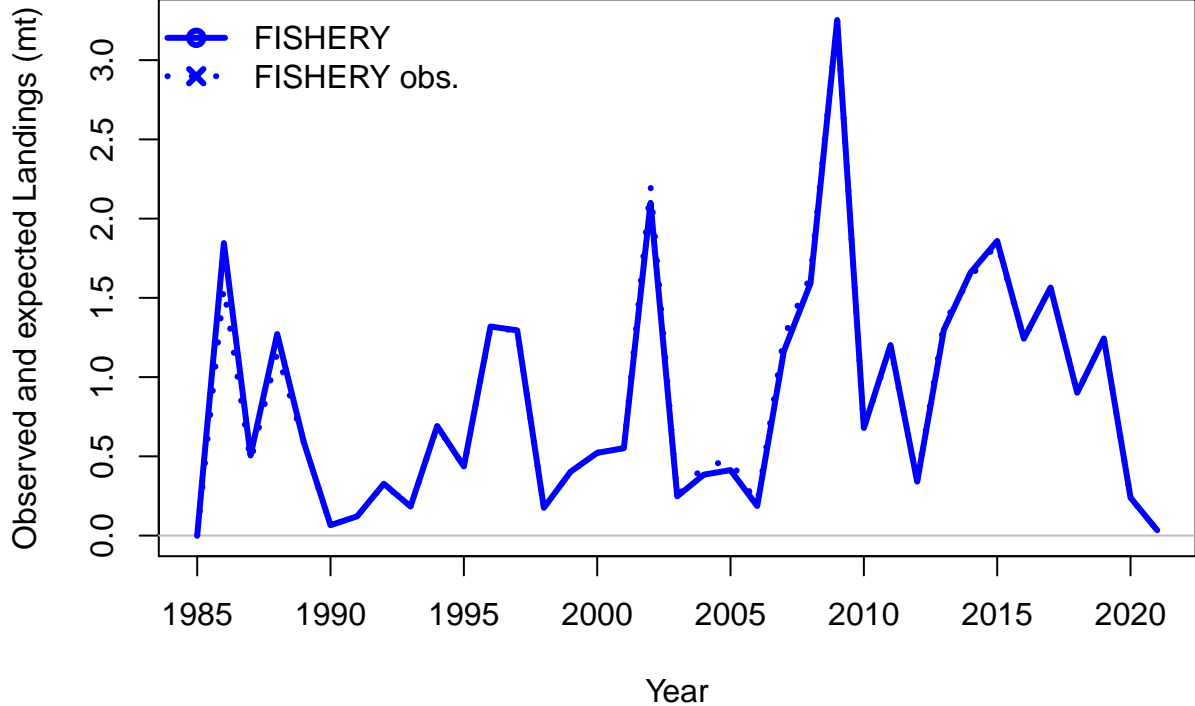


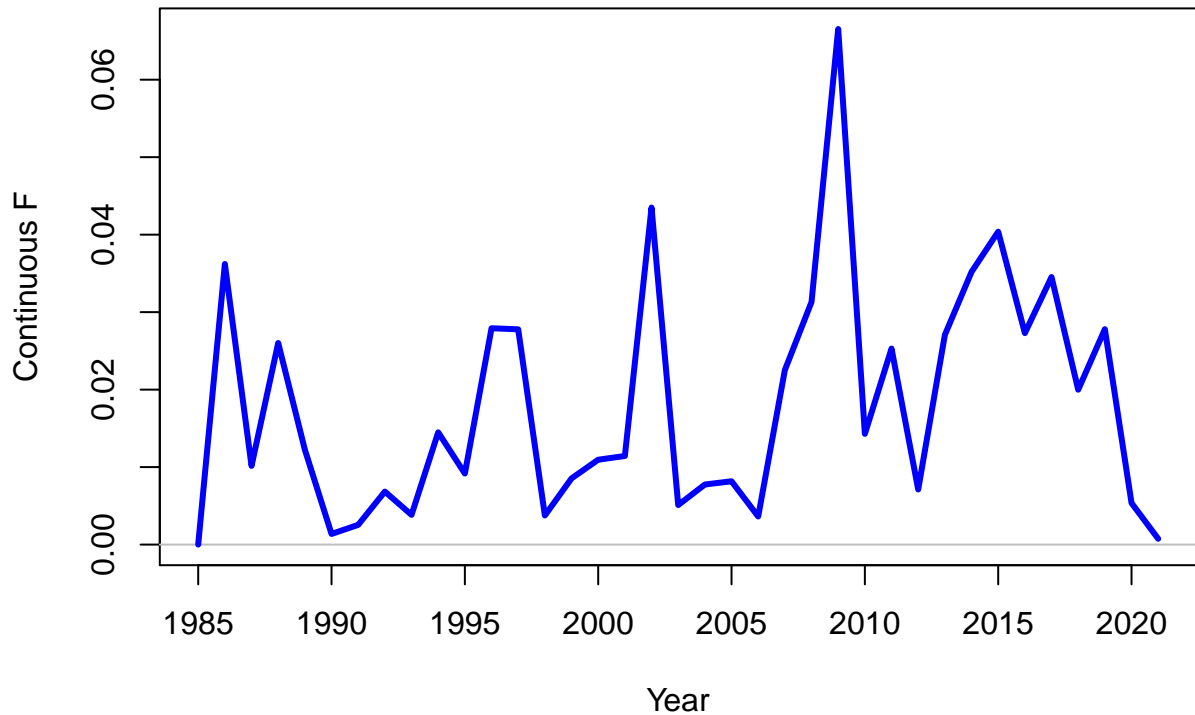
Log recruitment deviation





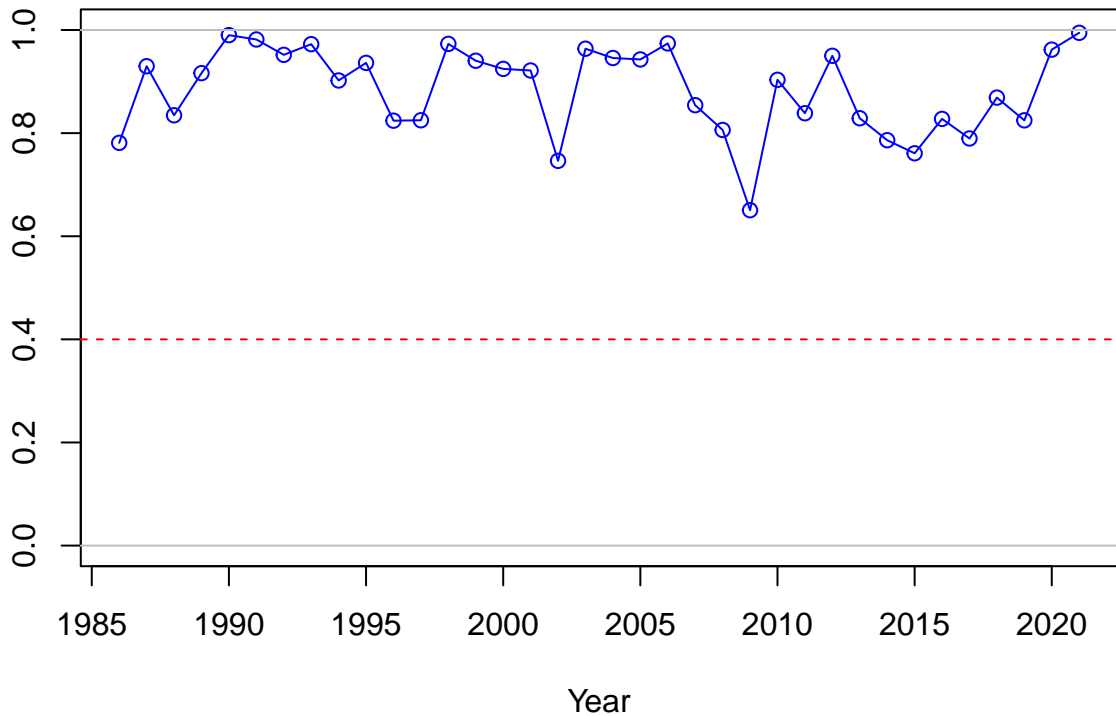




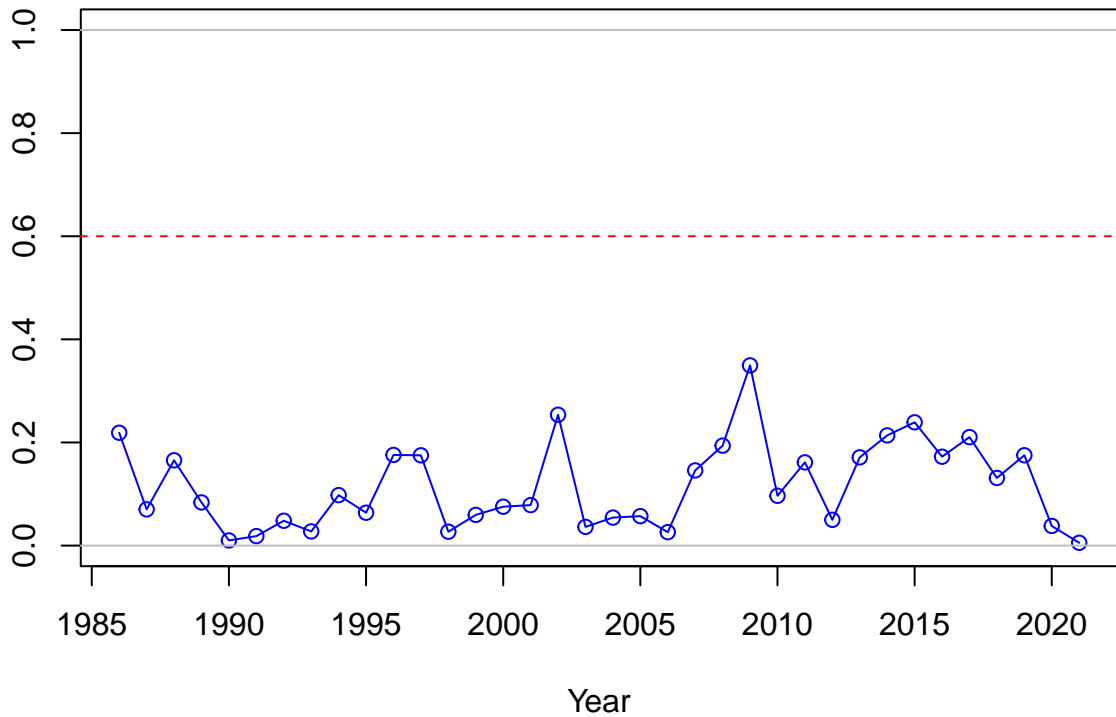




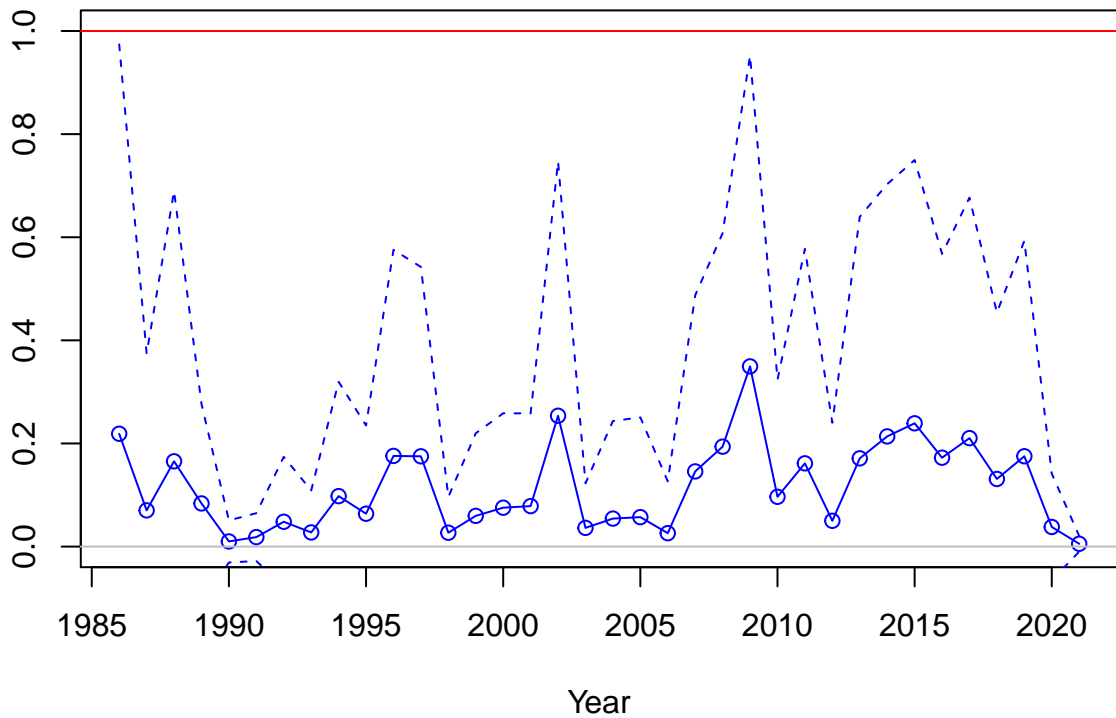
SPR



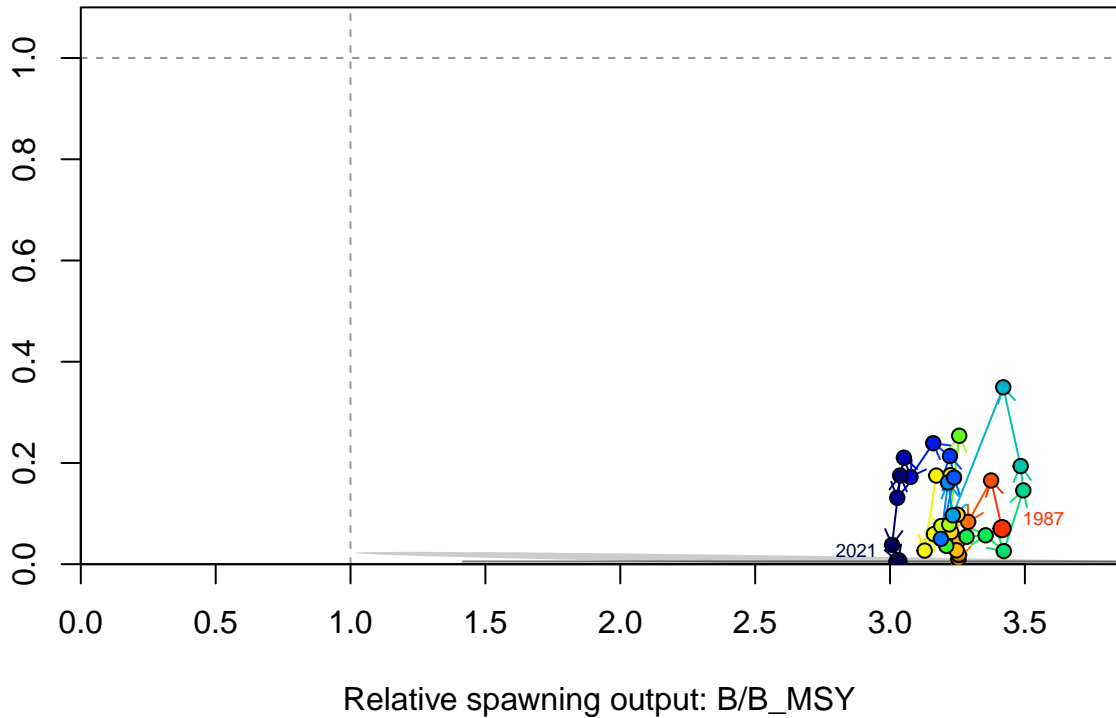
1-SPR

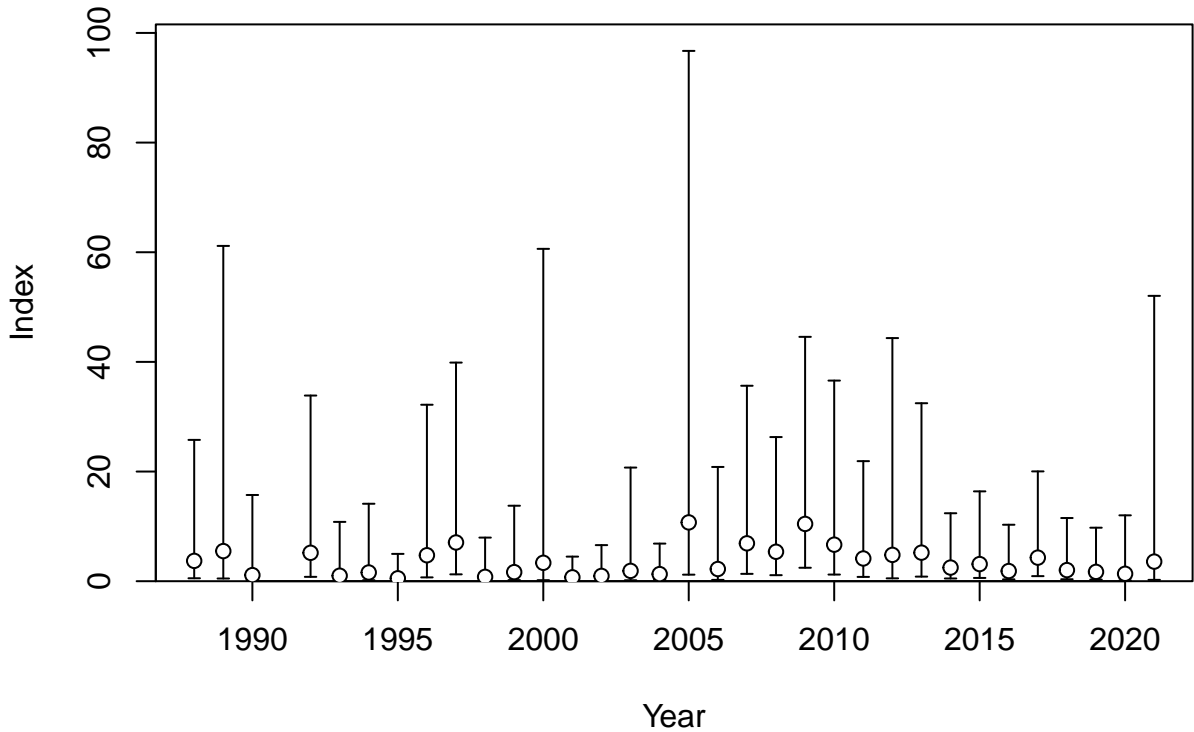


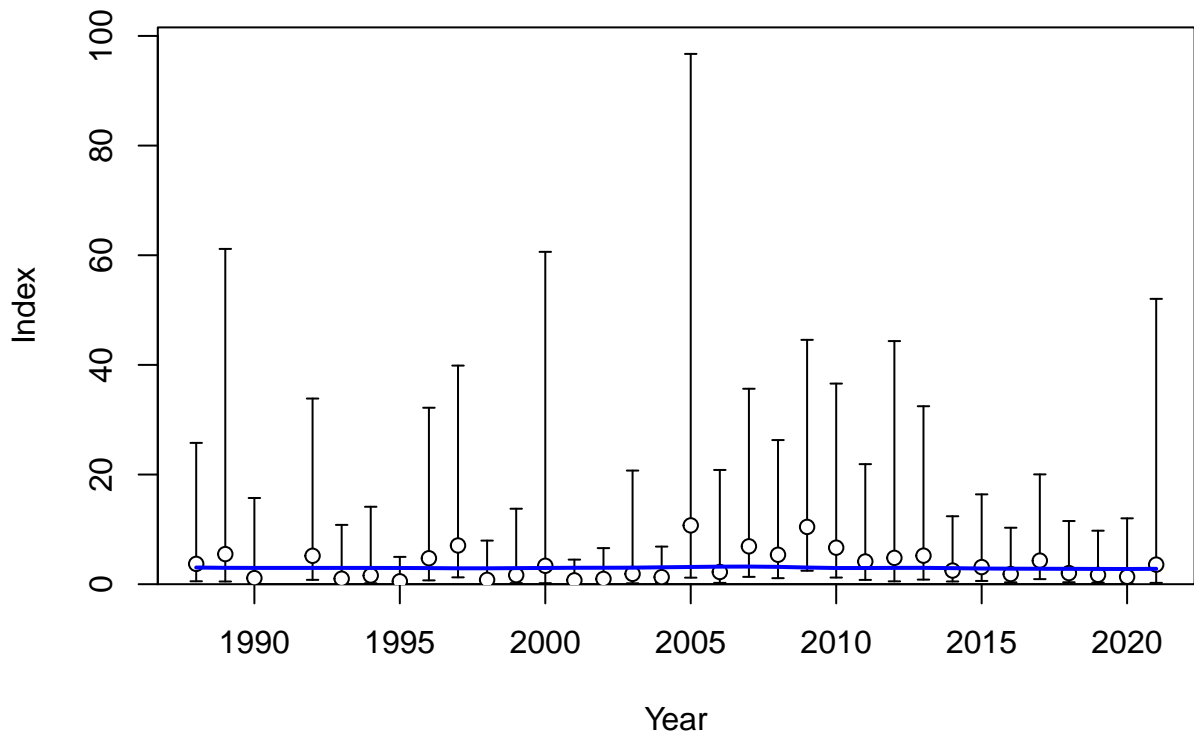
Fishing intensity: 1-SPR



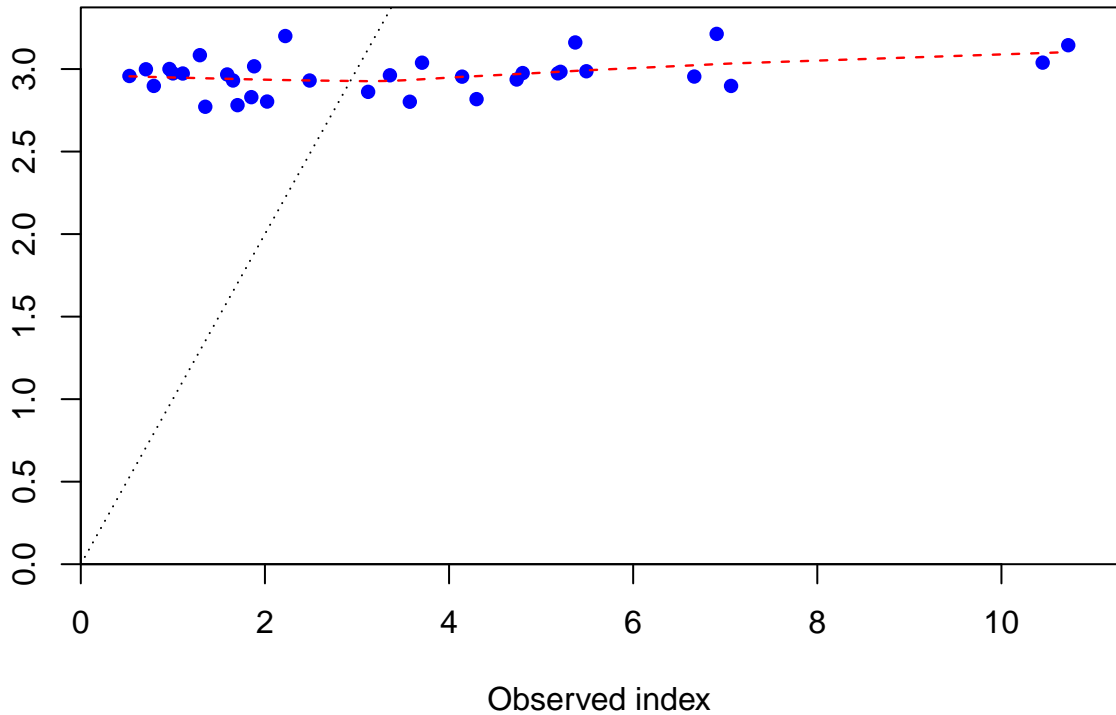
Fishing intensity: 1-SPR

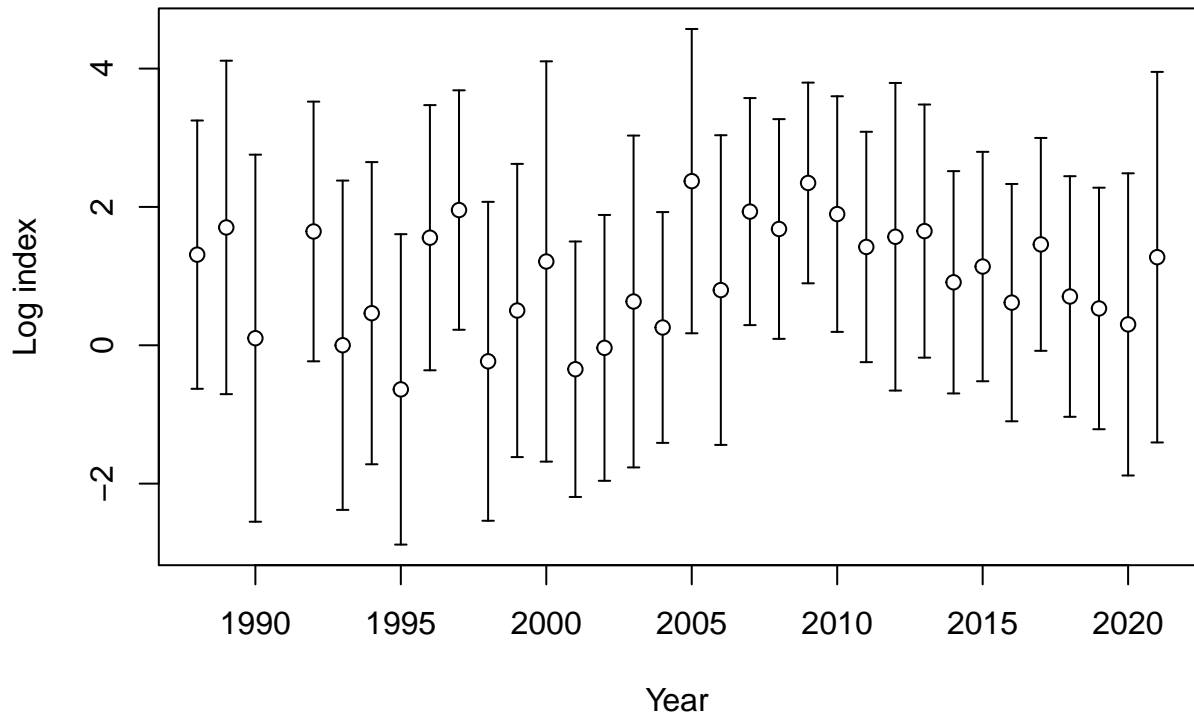




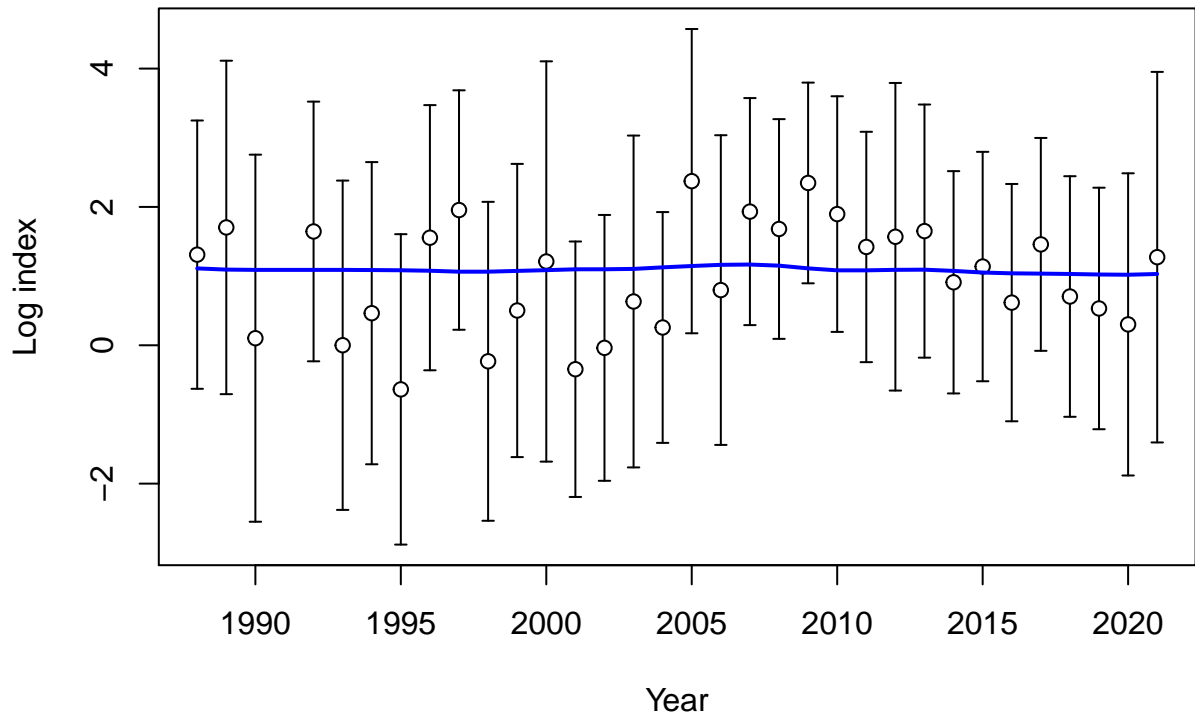


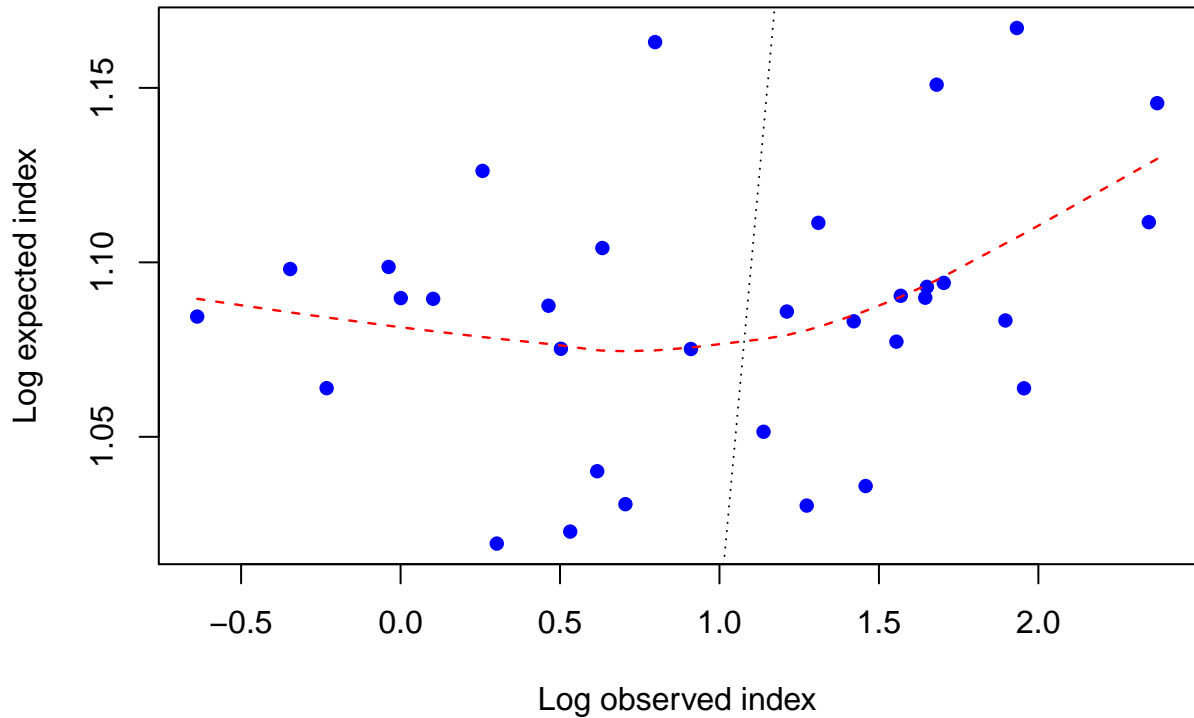
Expected index

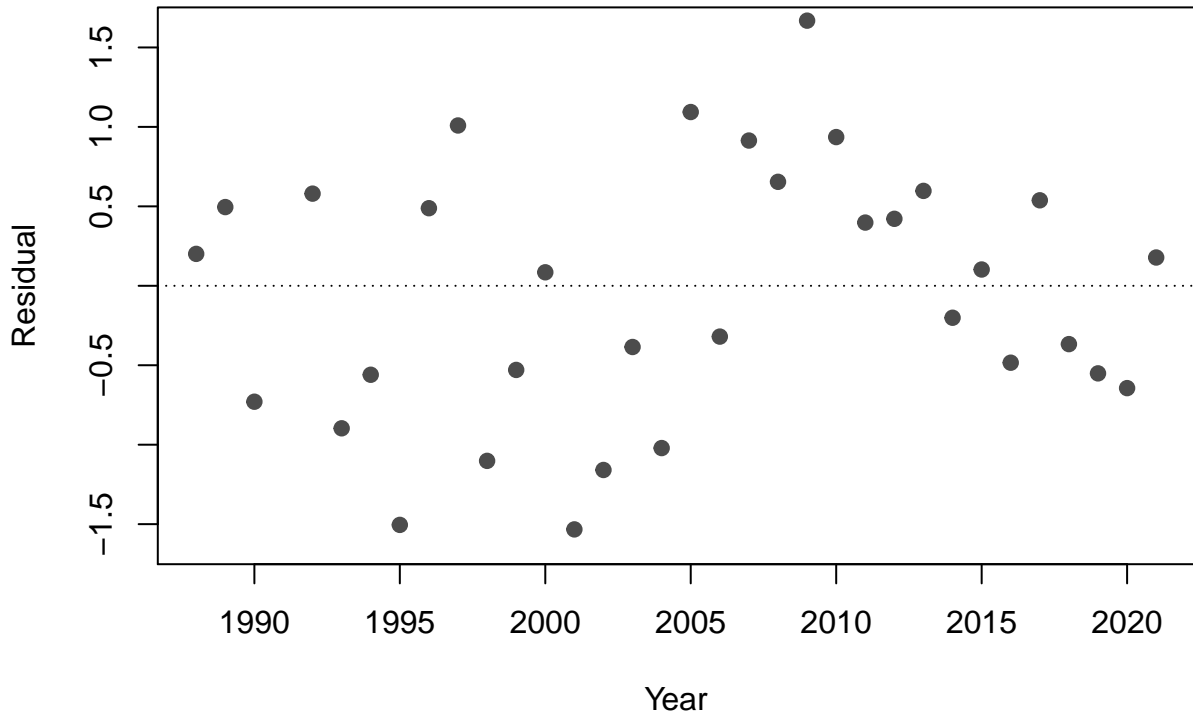


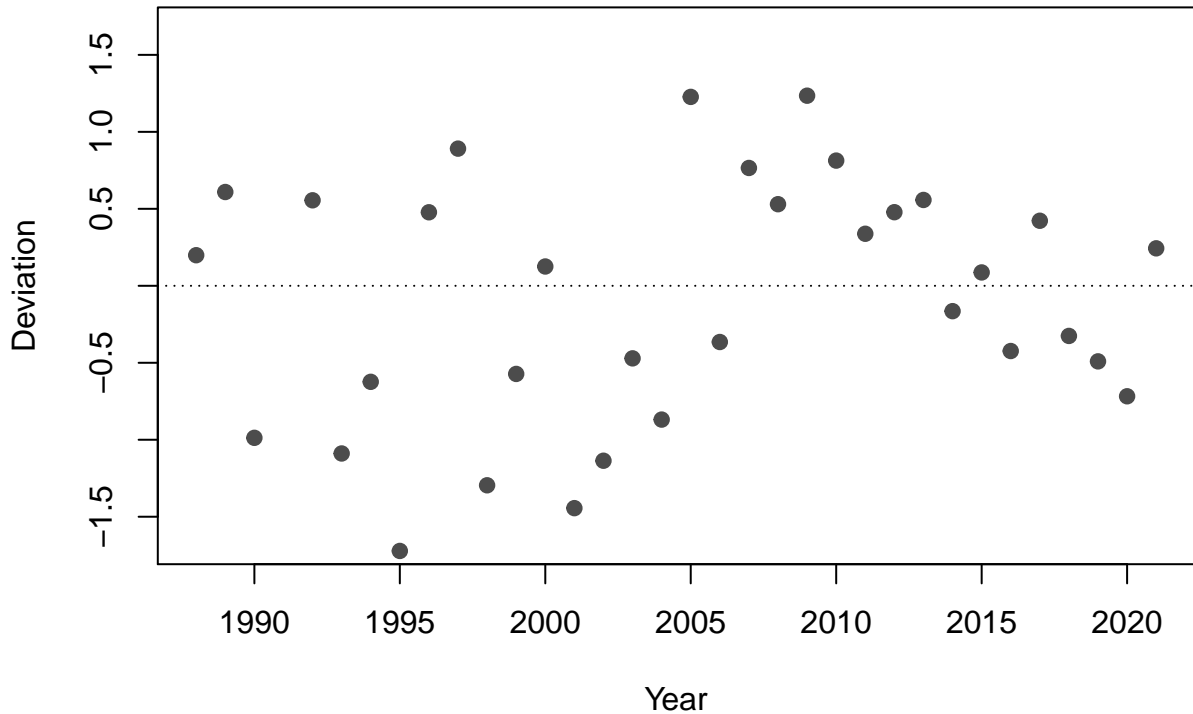


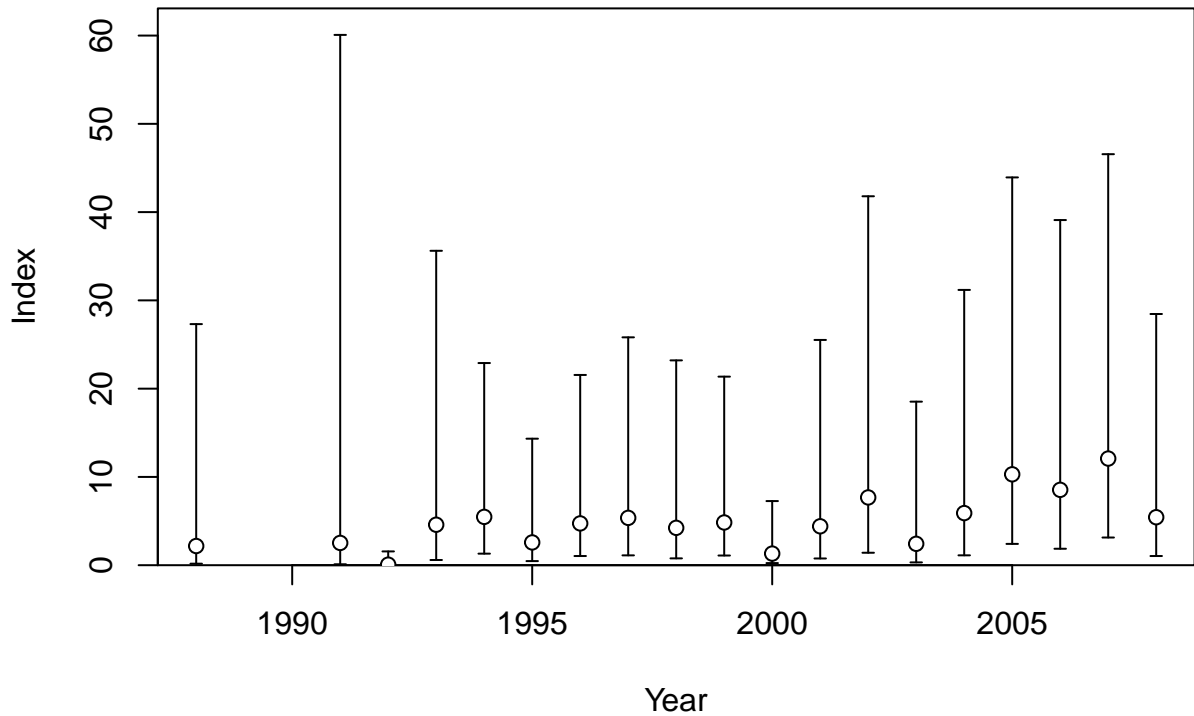


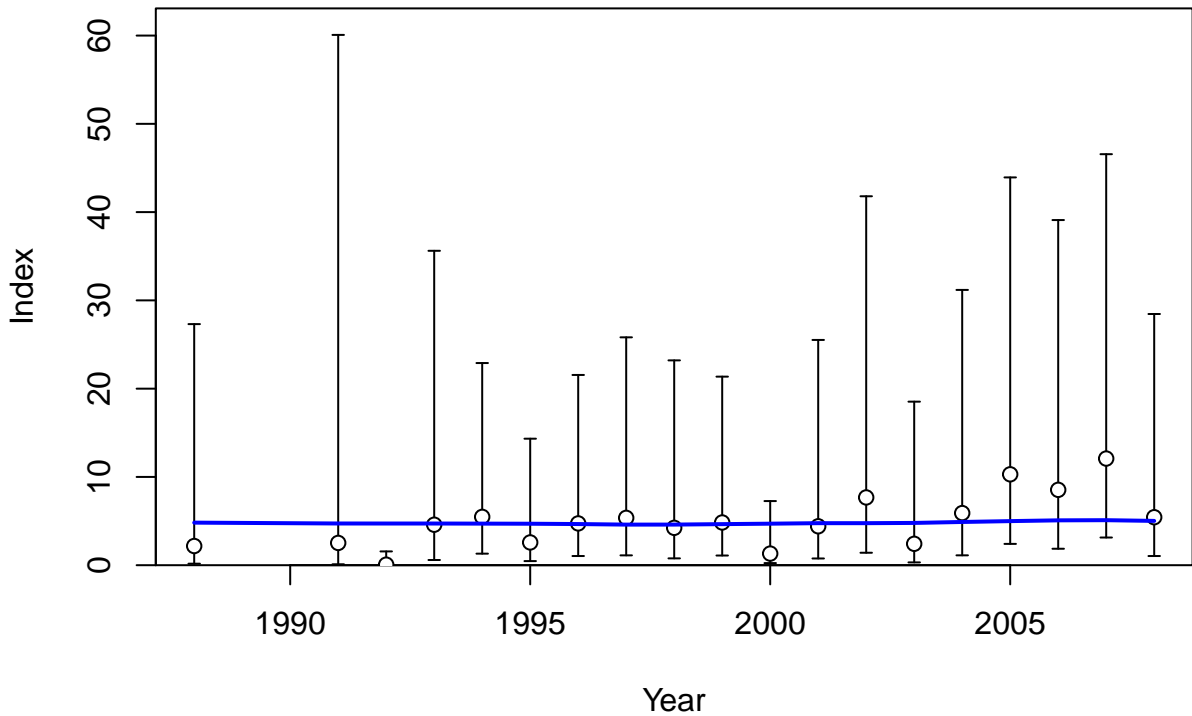




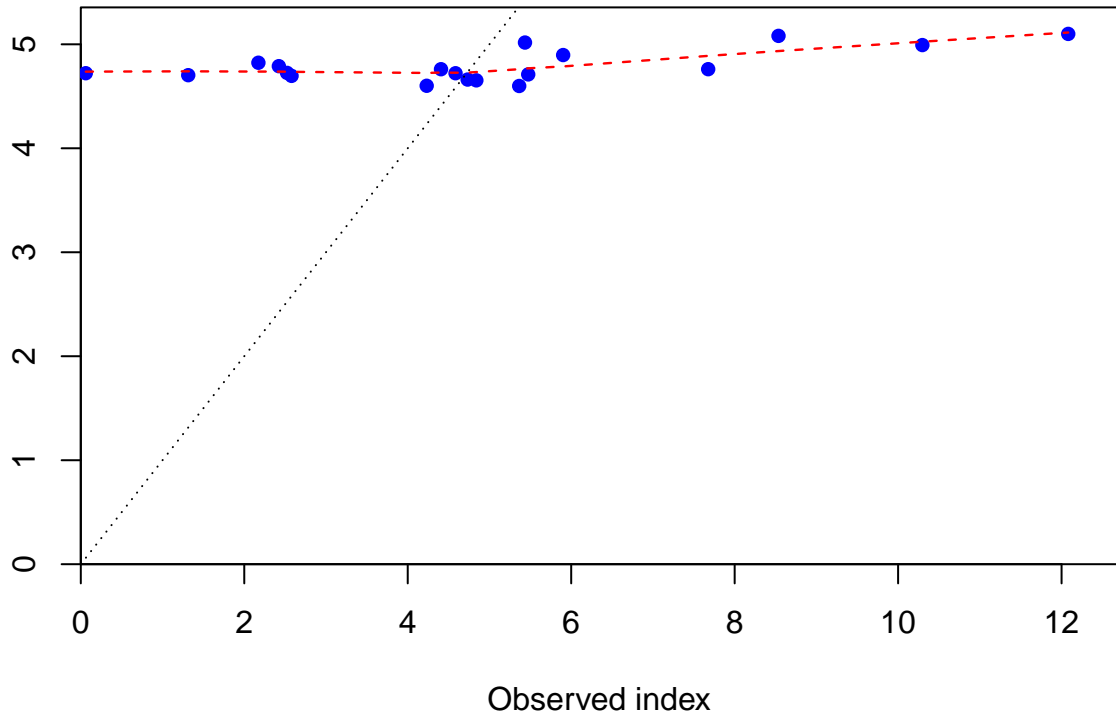




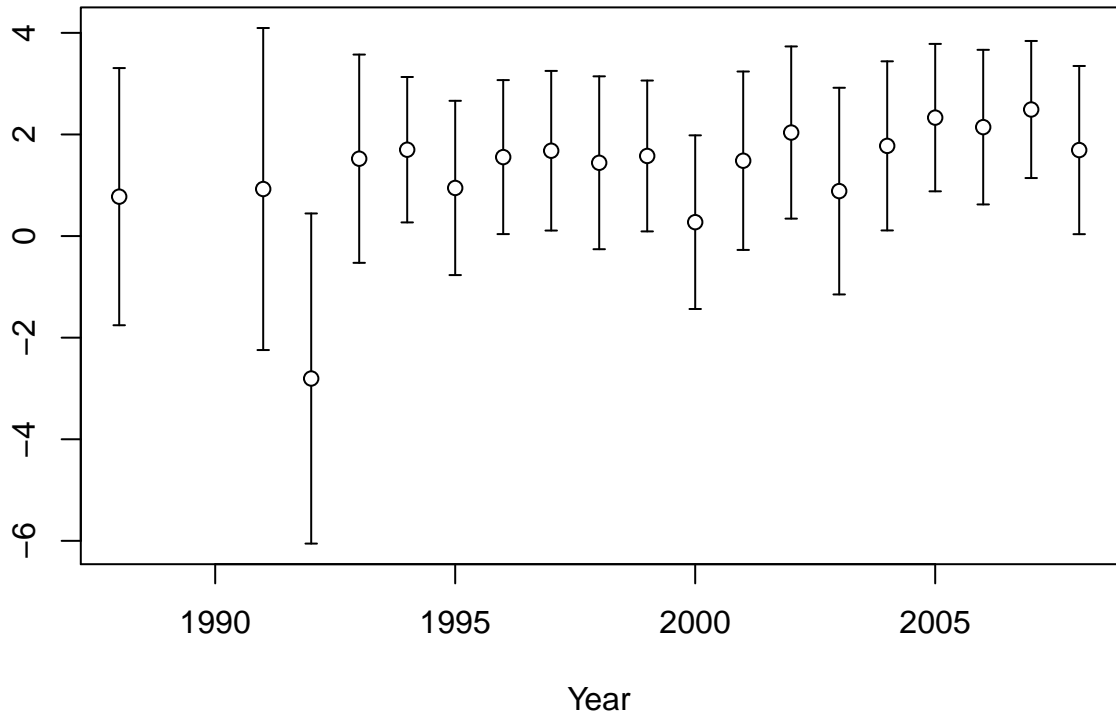




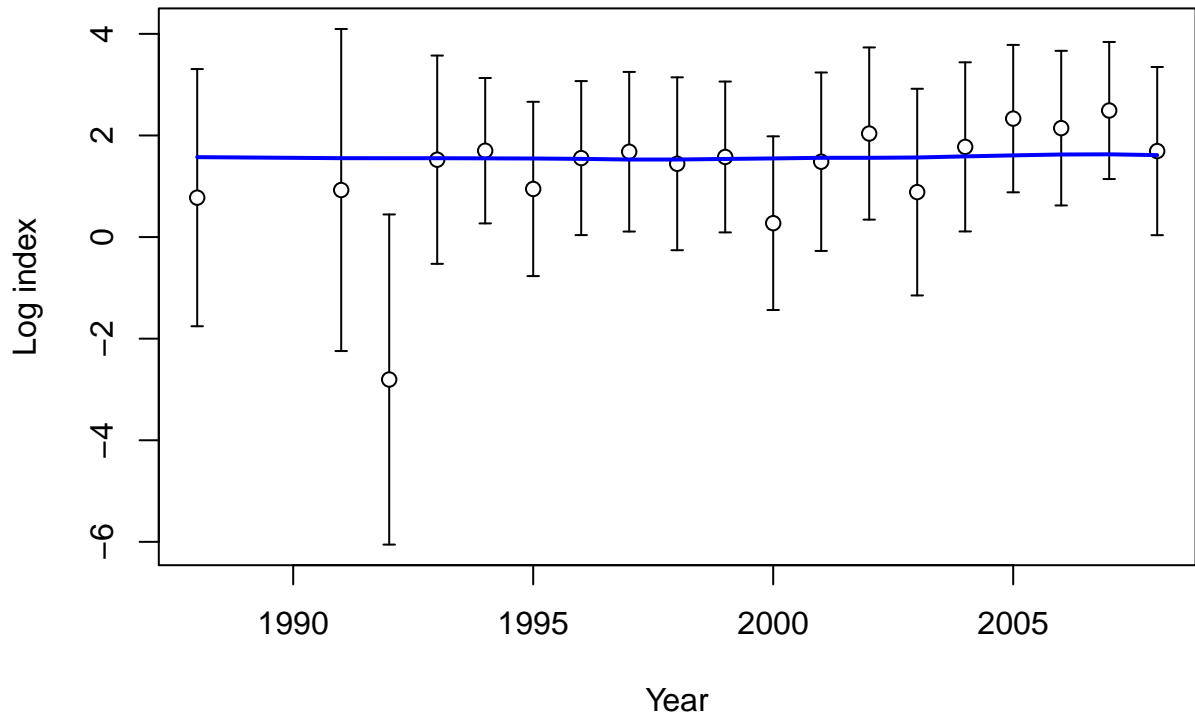
Expected index

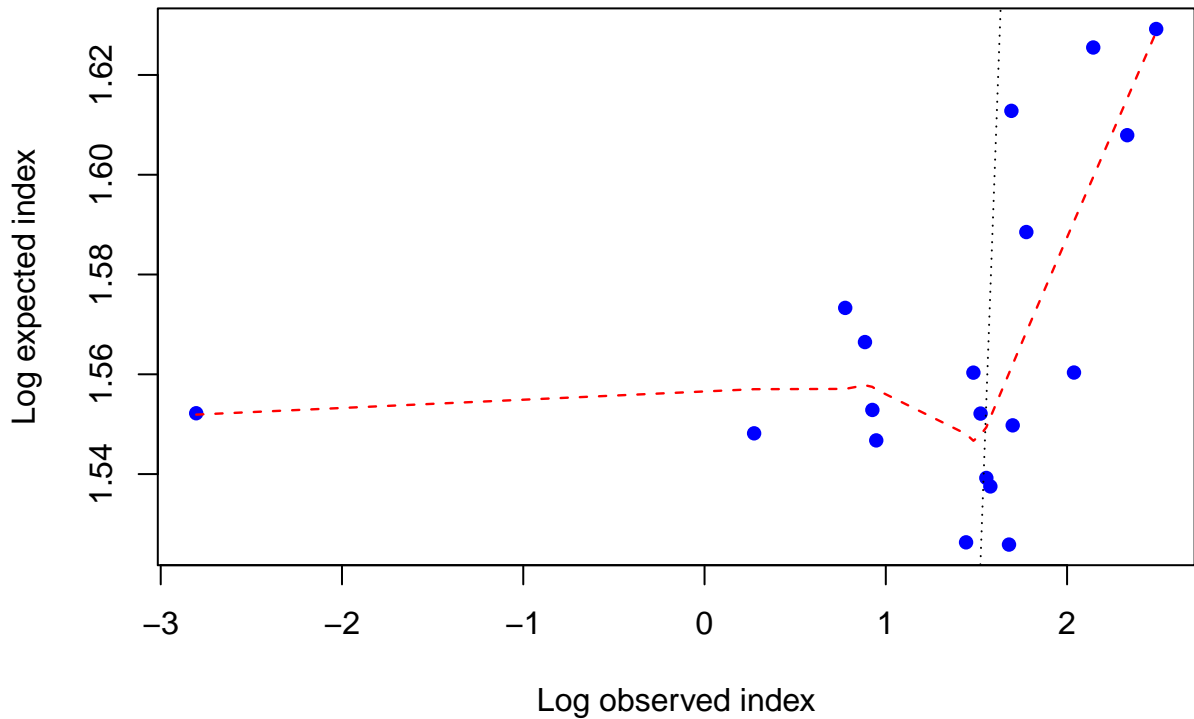


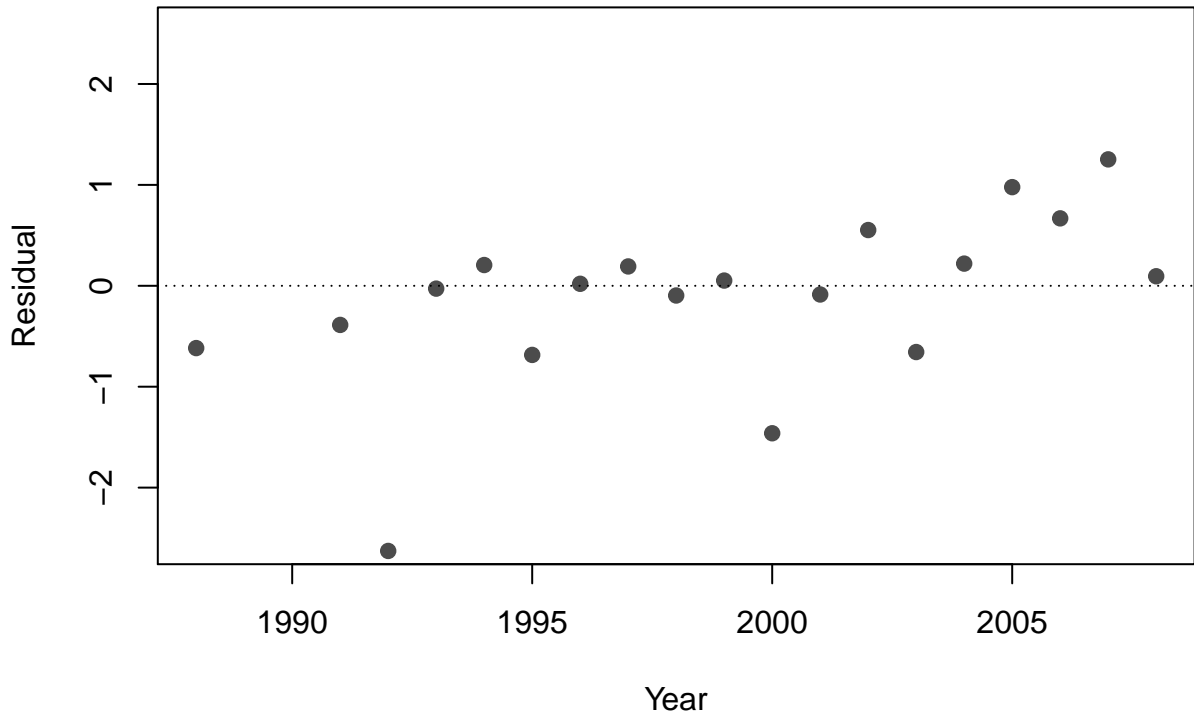
Log index

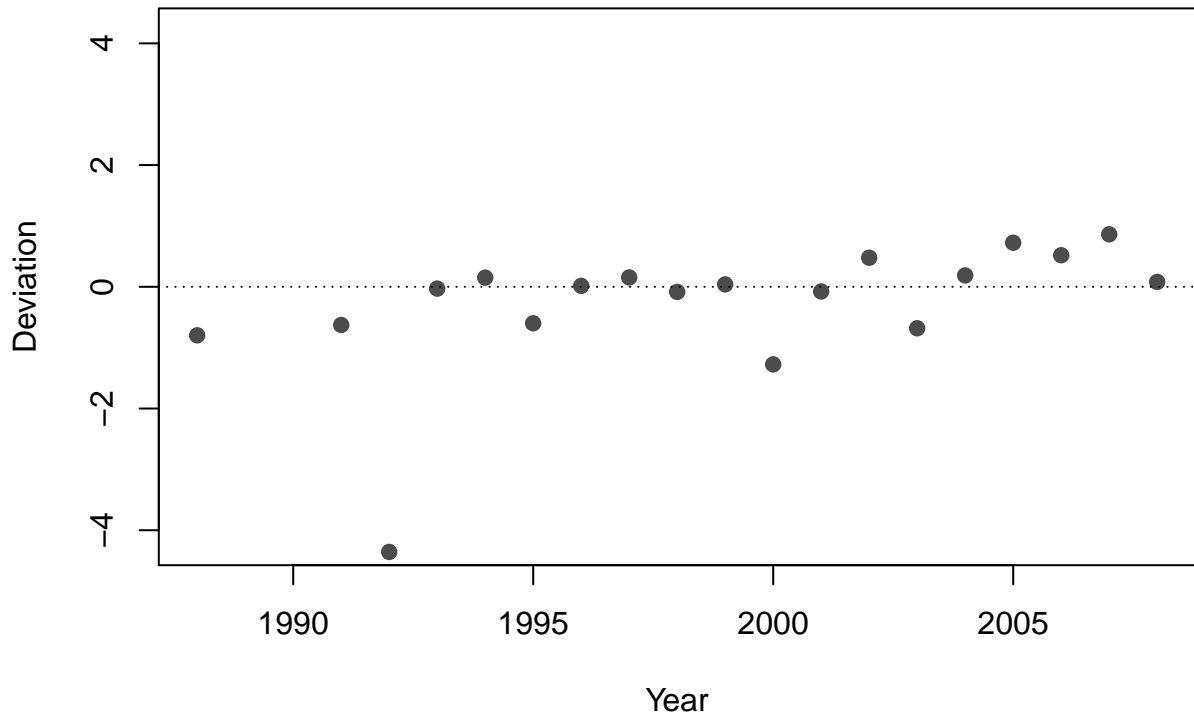


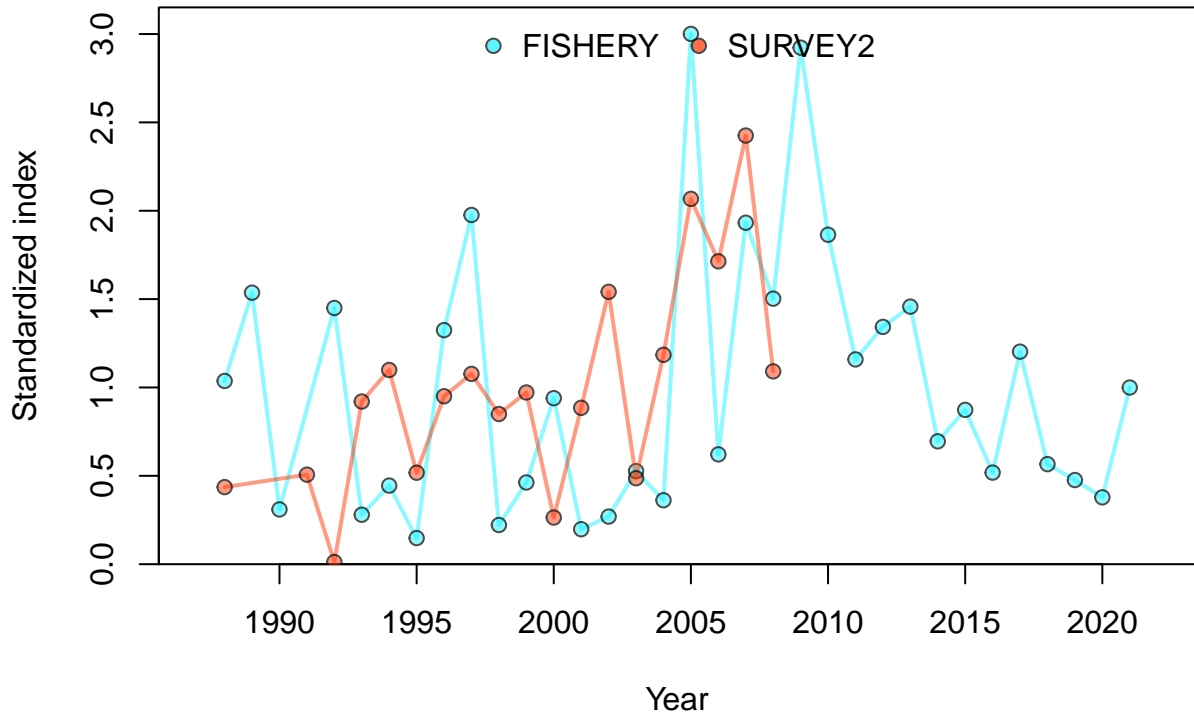


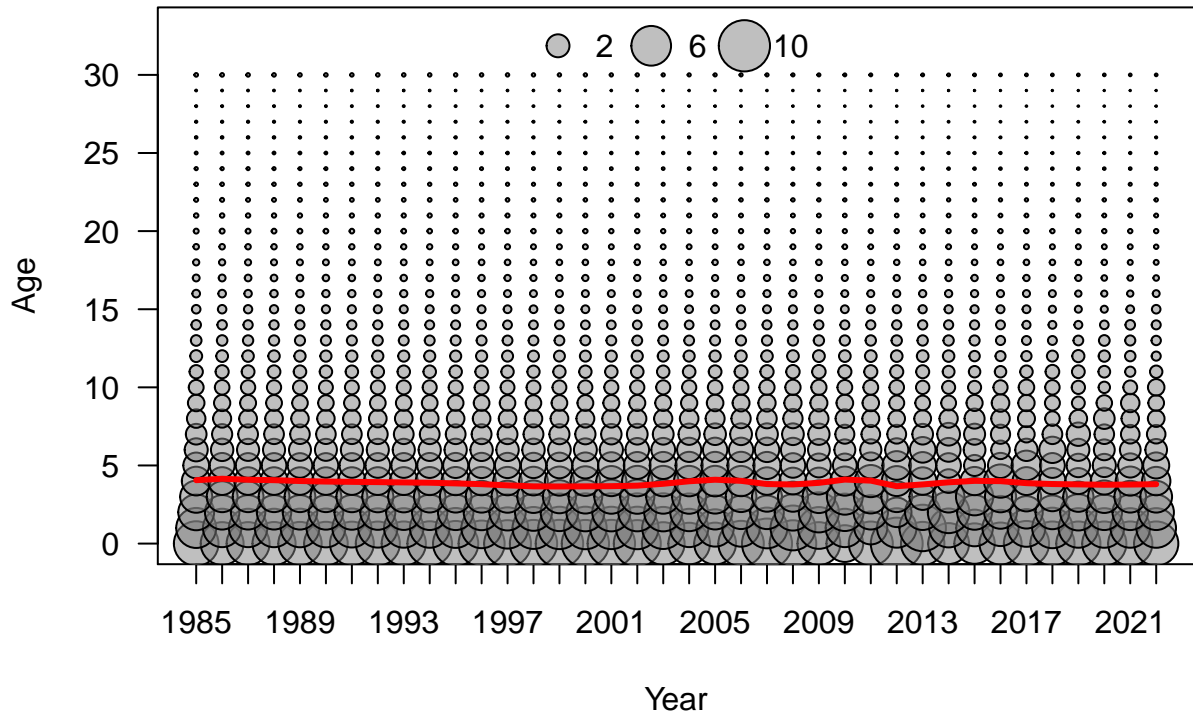


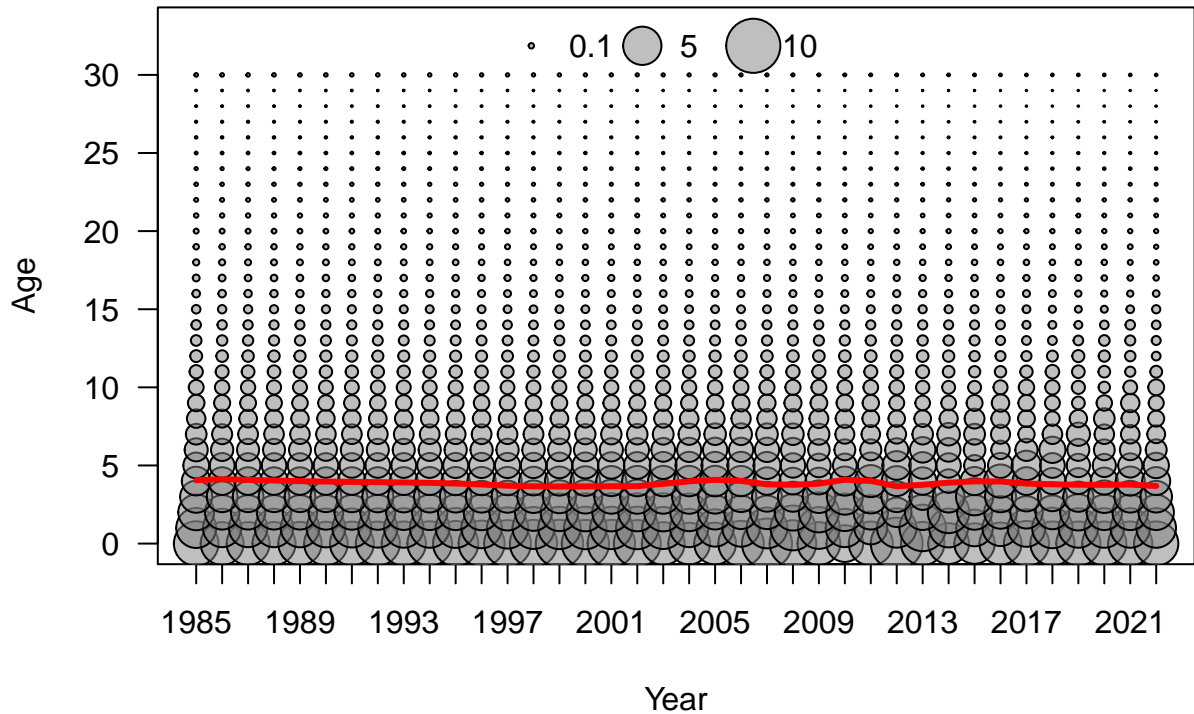




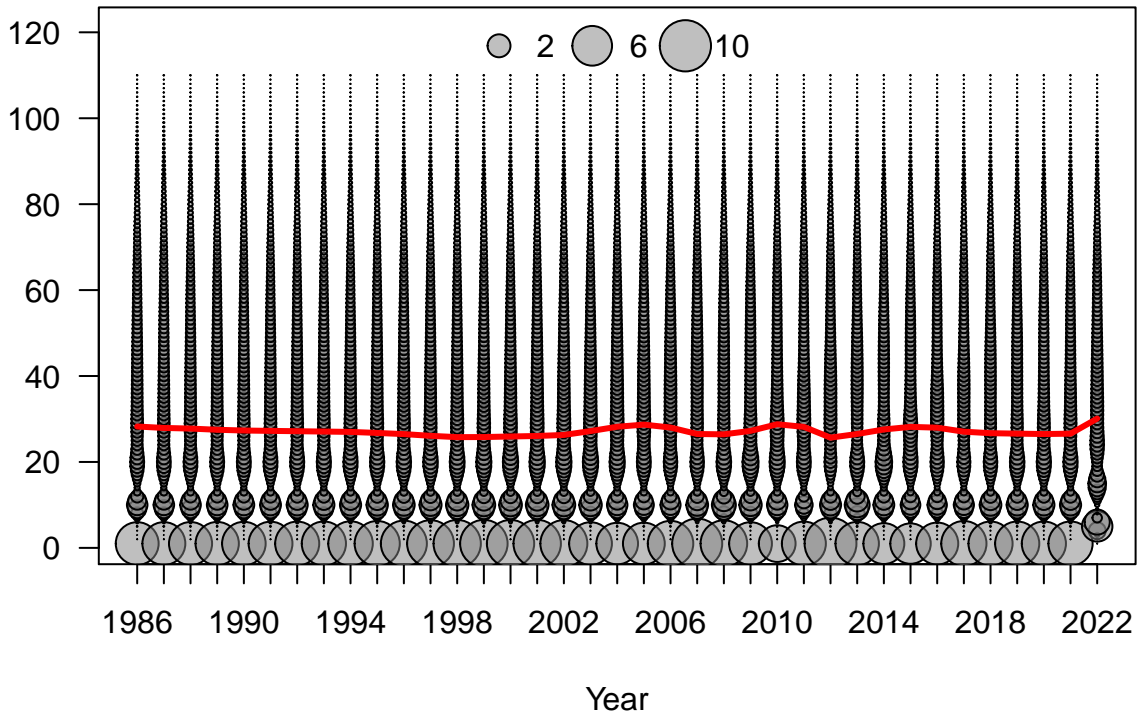








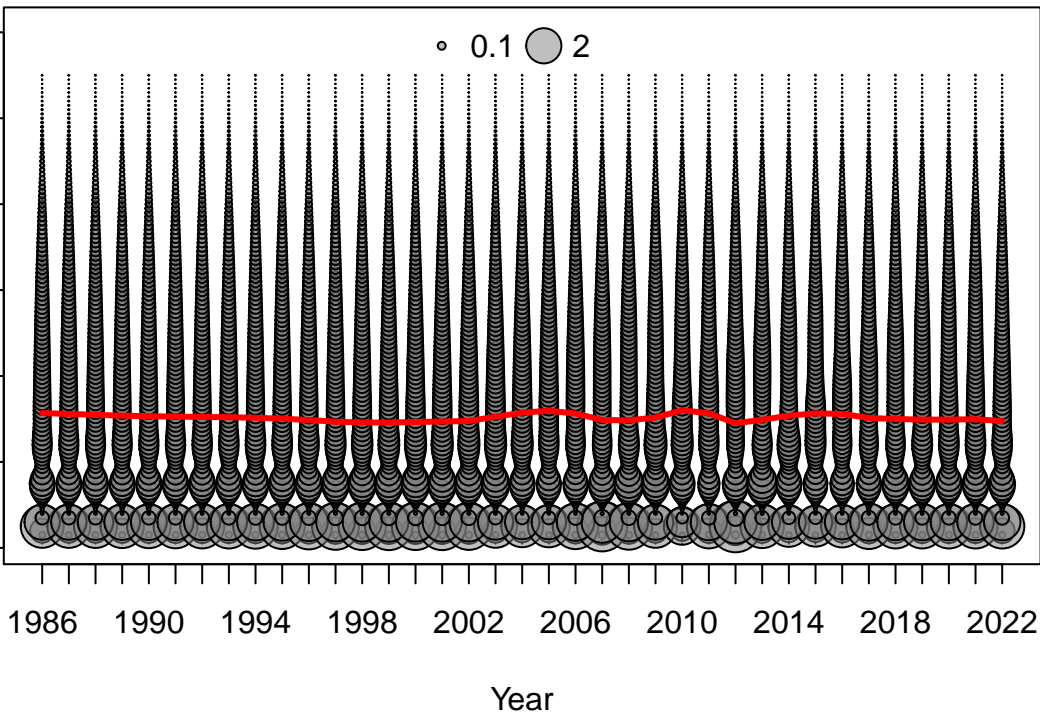
Length

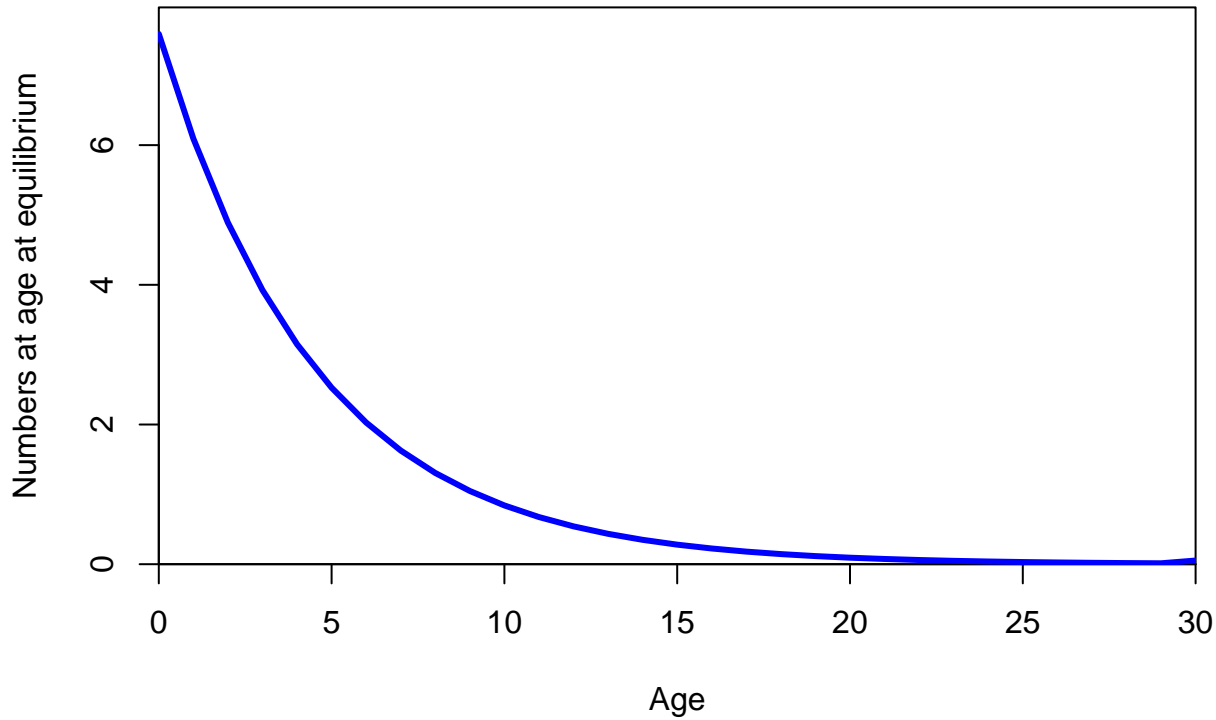




Length

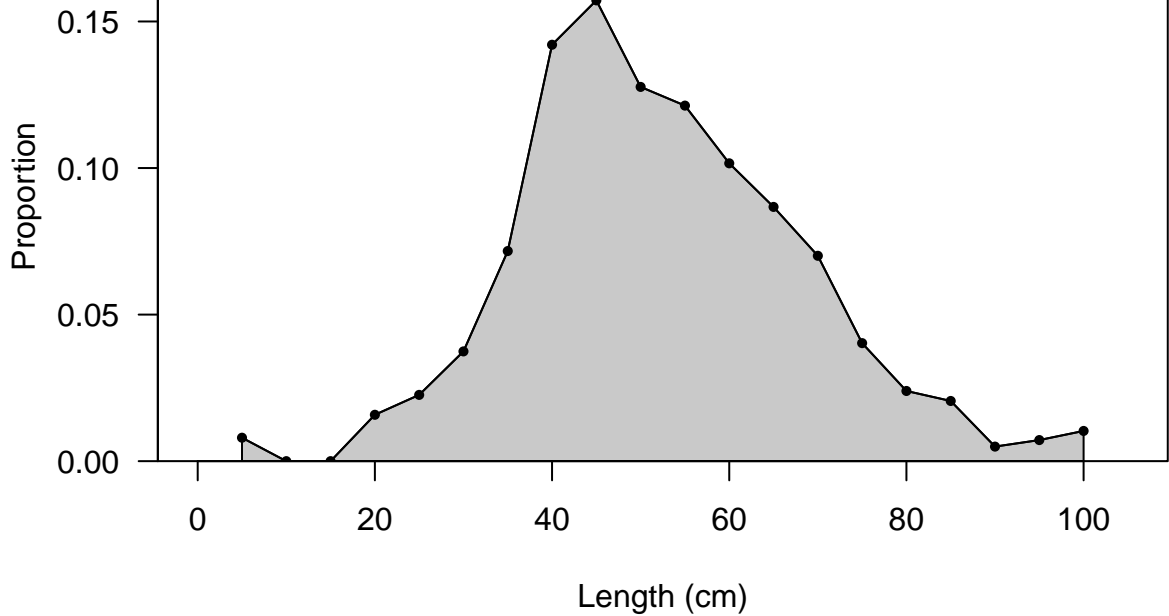
◦ 0.1 ● 2

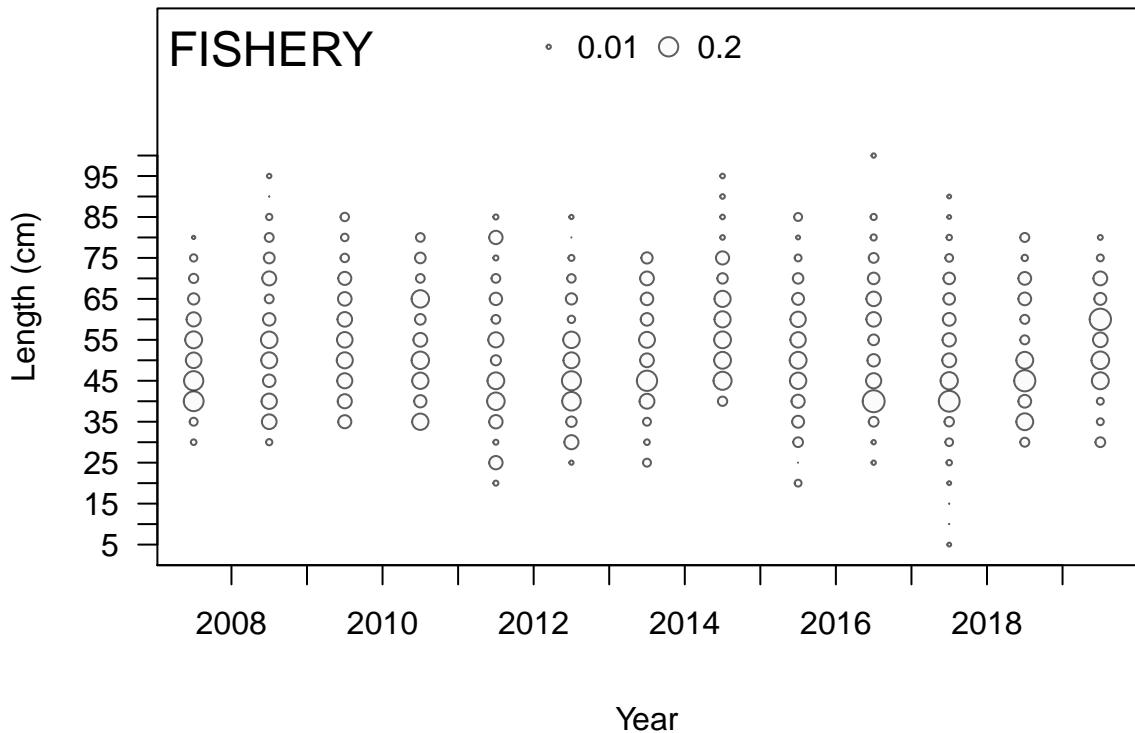




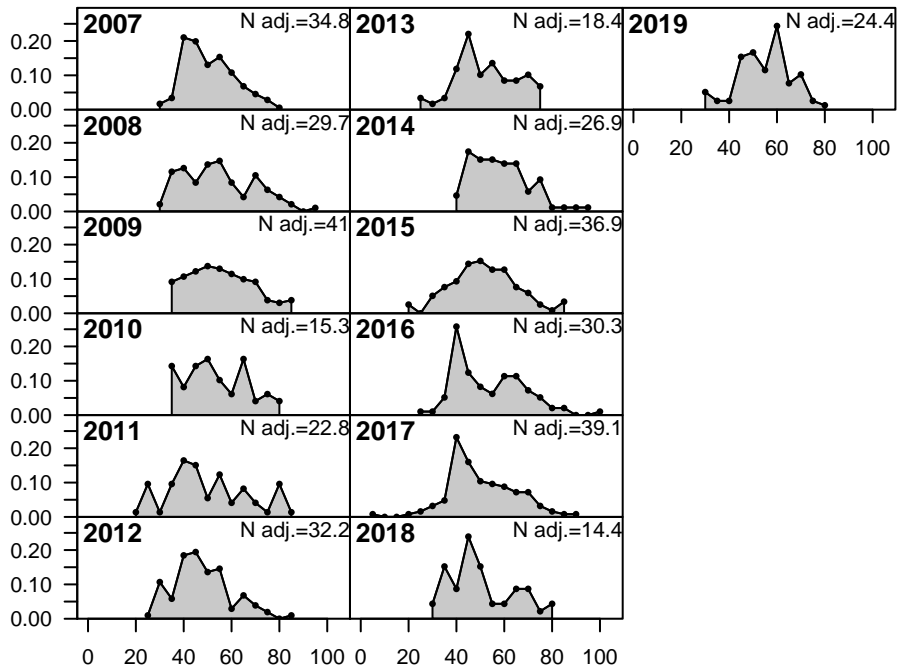
**FISHERY**

Sum of N adj.=366.2

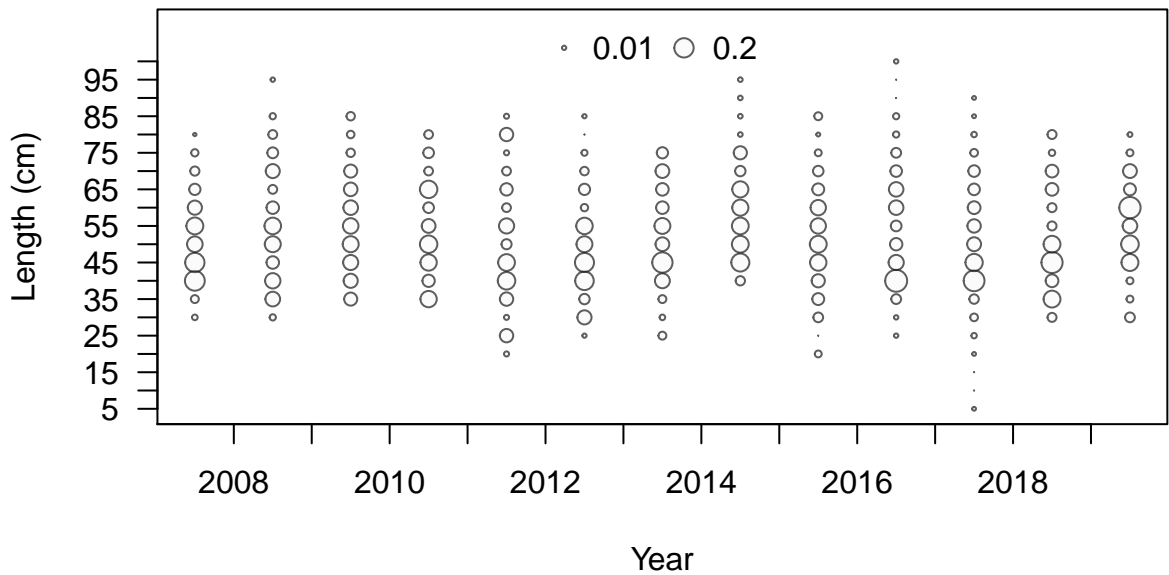




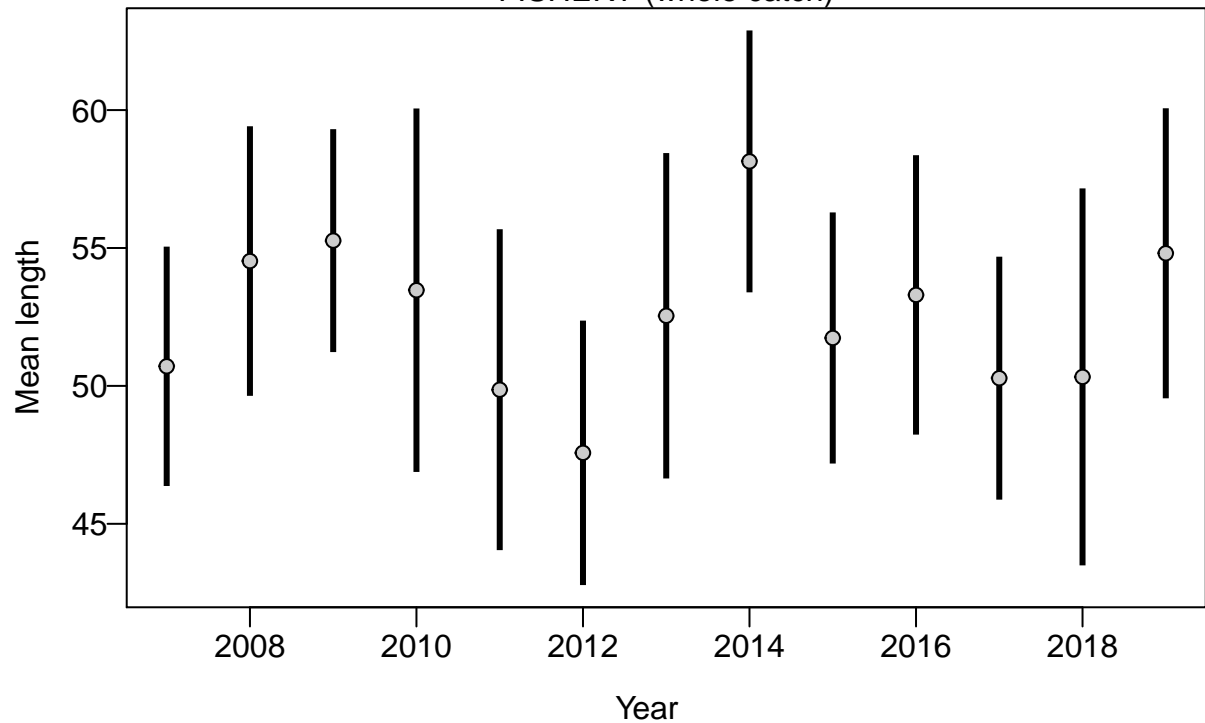
Proportion



Length (cm)

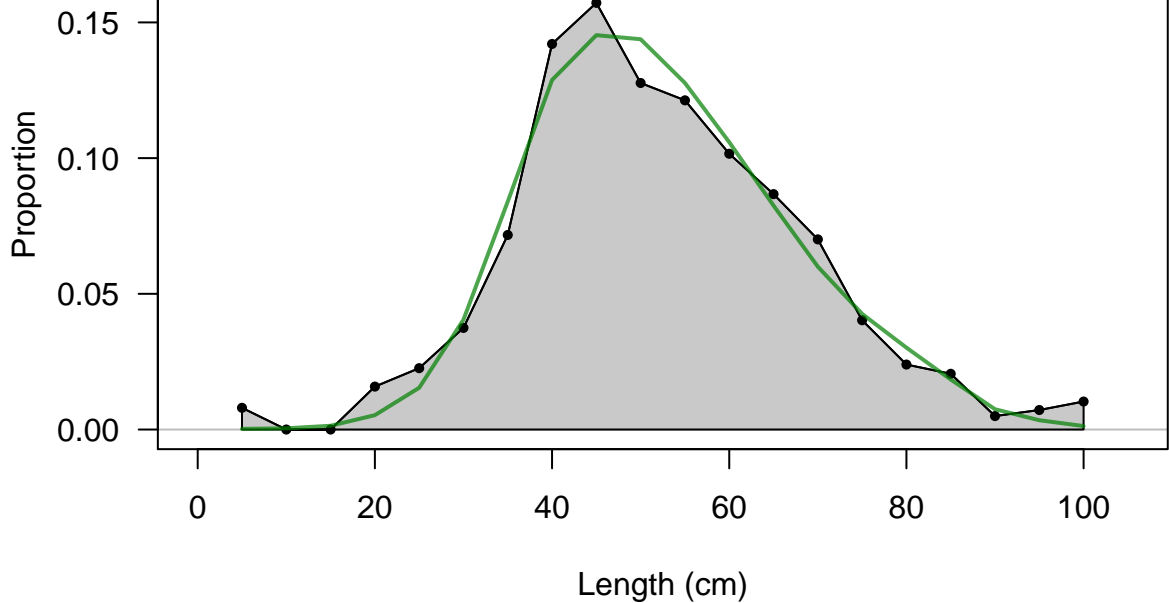


FISHERY (whole catch)

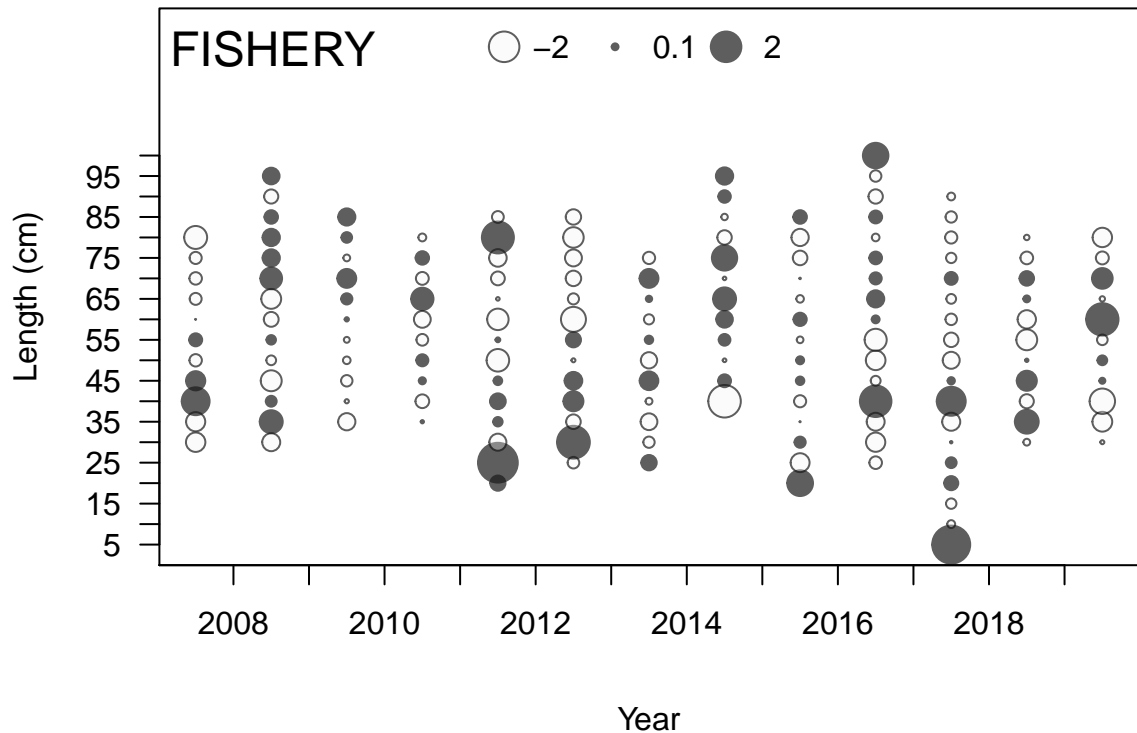


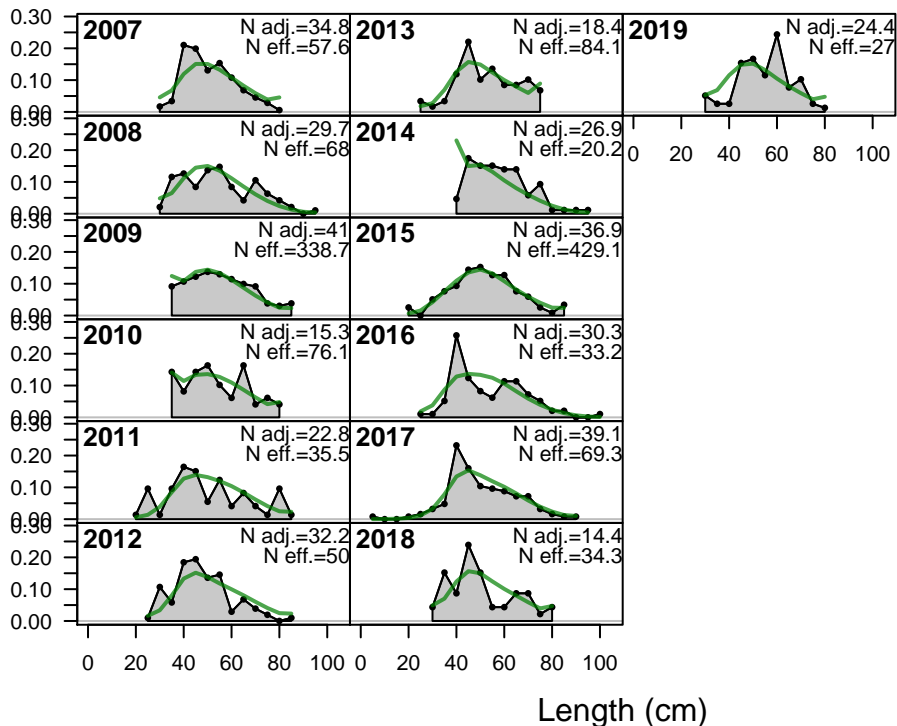
# FISHERY

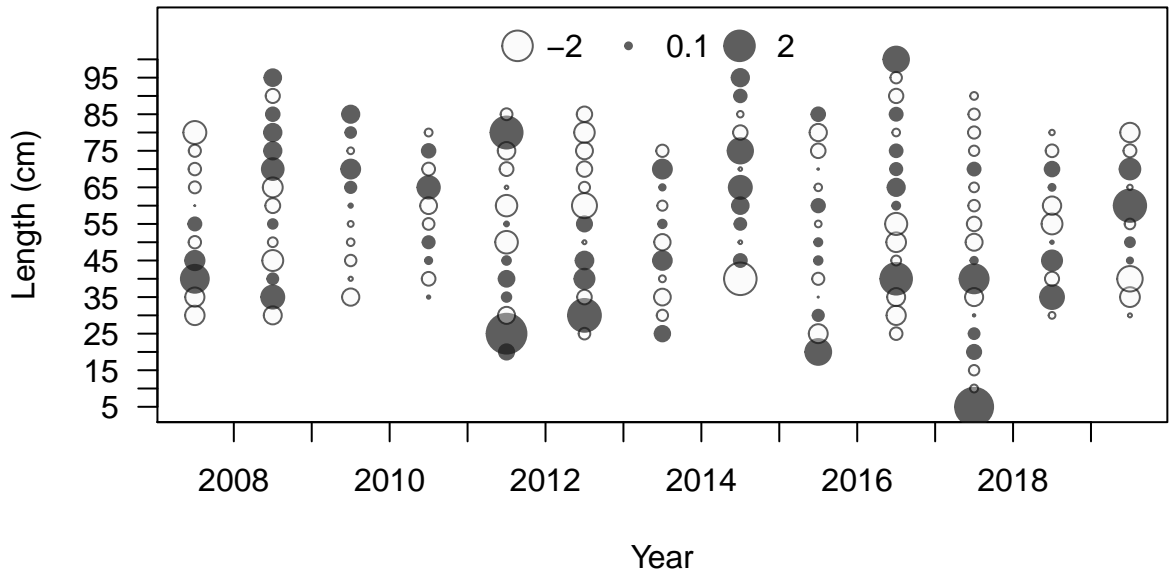
Sum of N adj.=366.2  
Sum of N eff.=1323.1



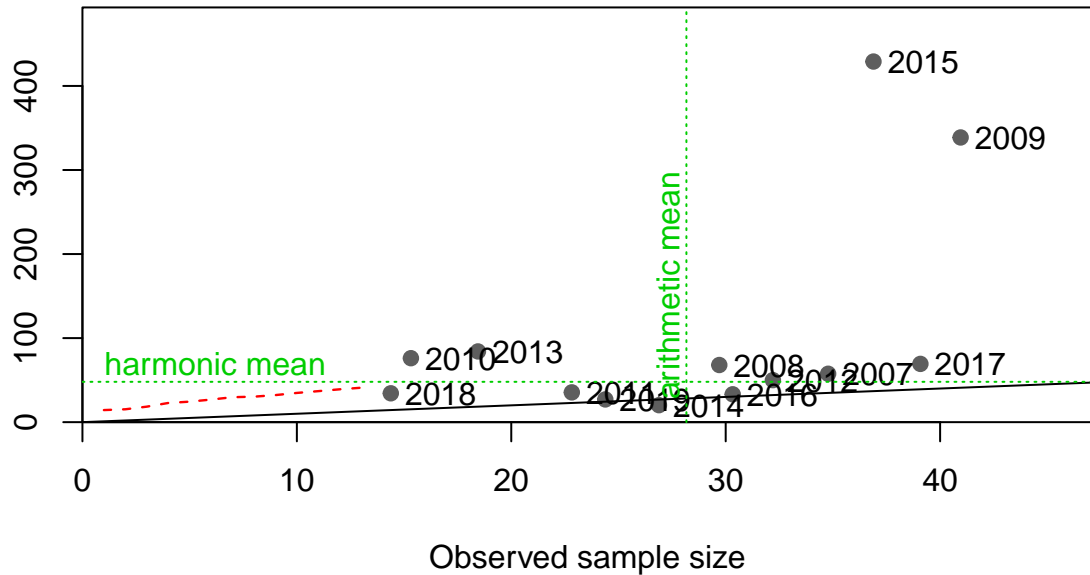




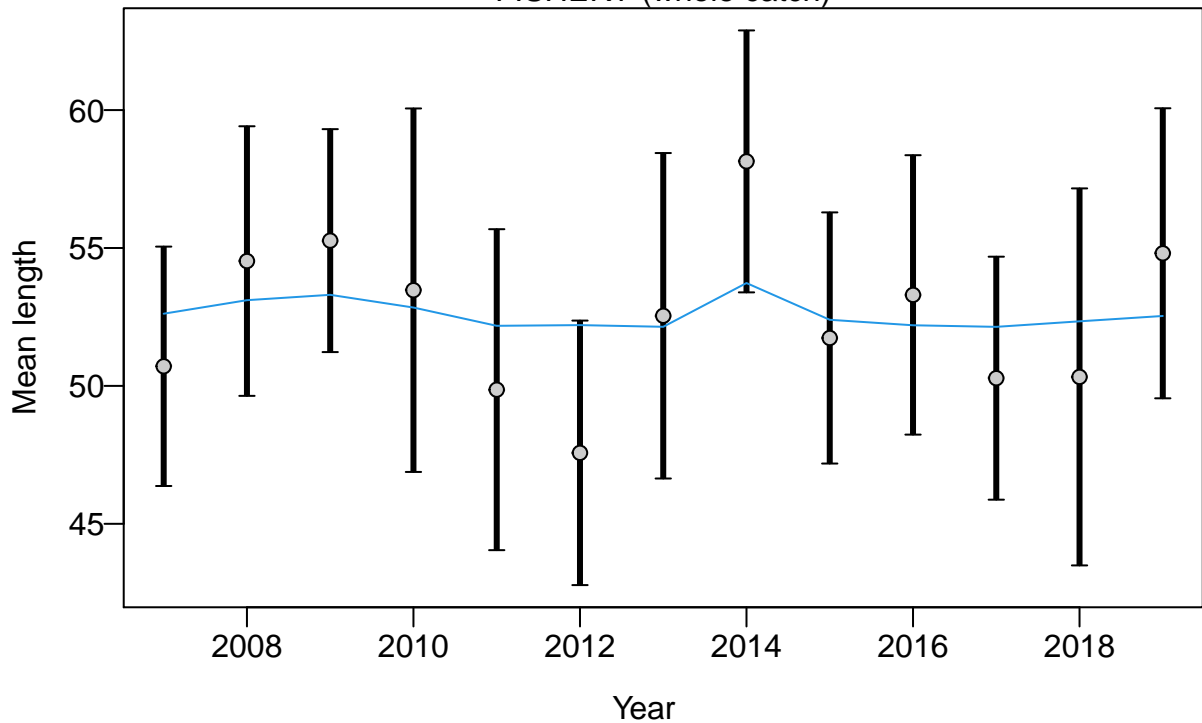


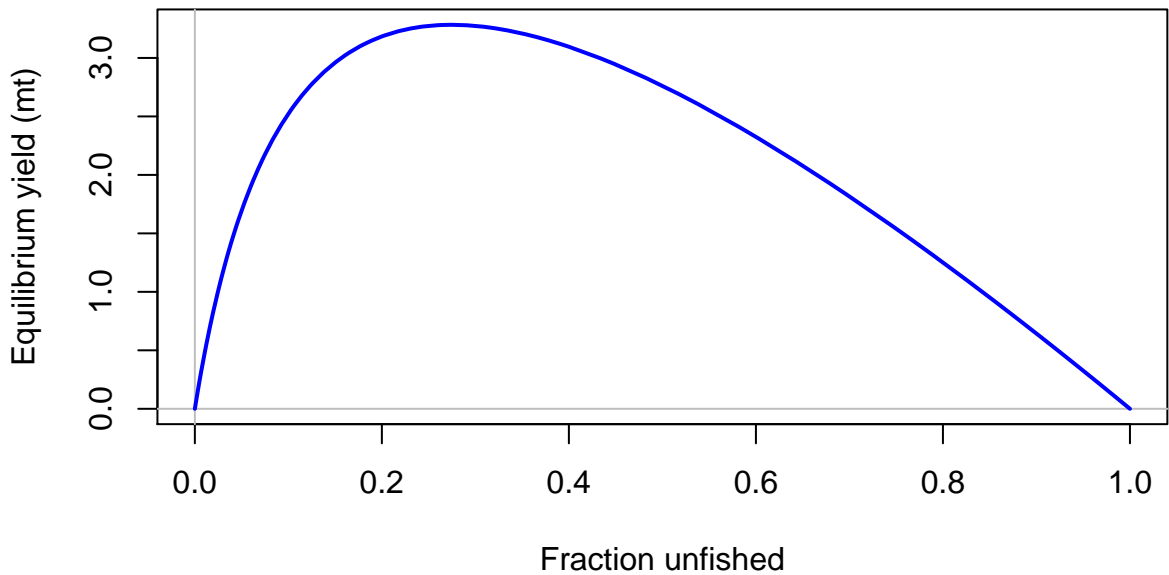


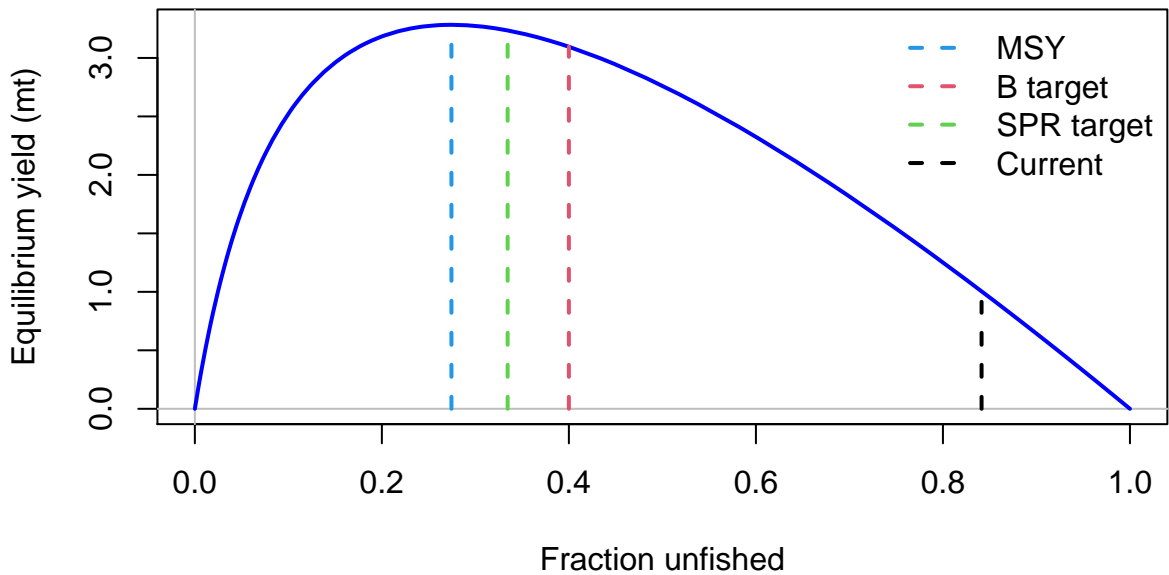
Effective sample size

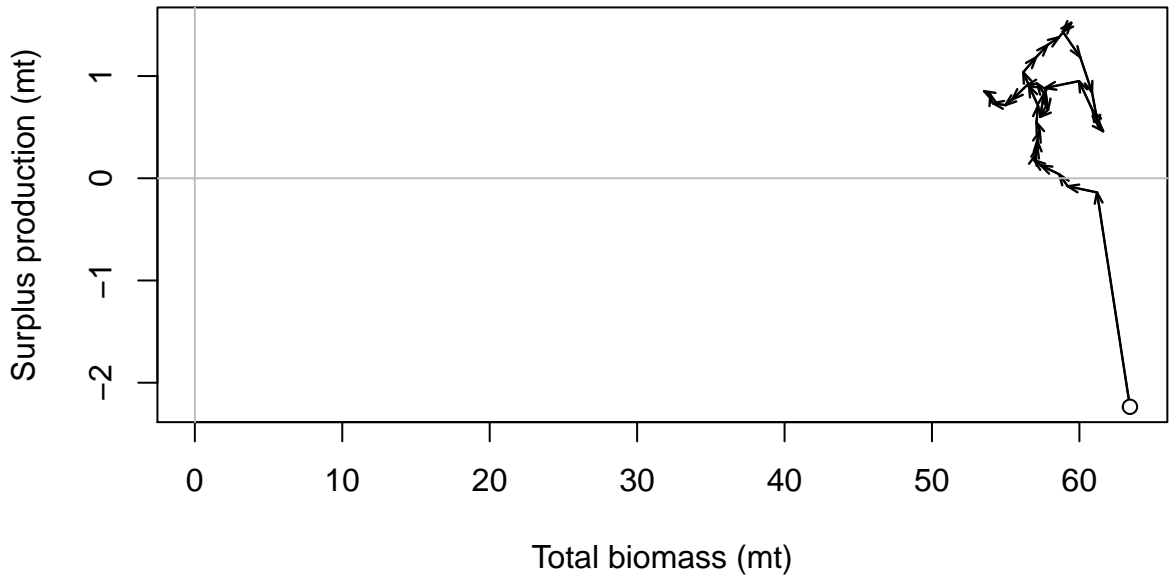


FISHERY (whole catch)

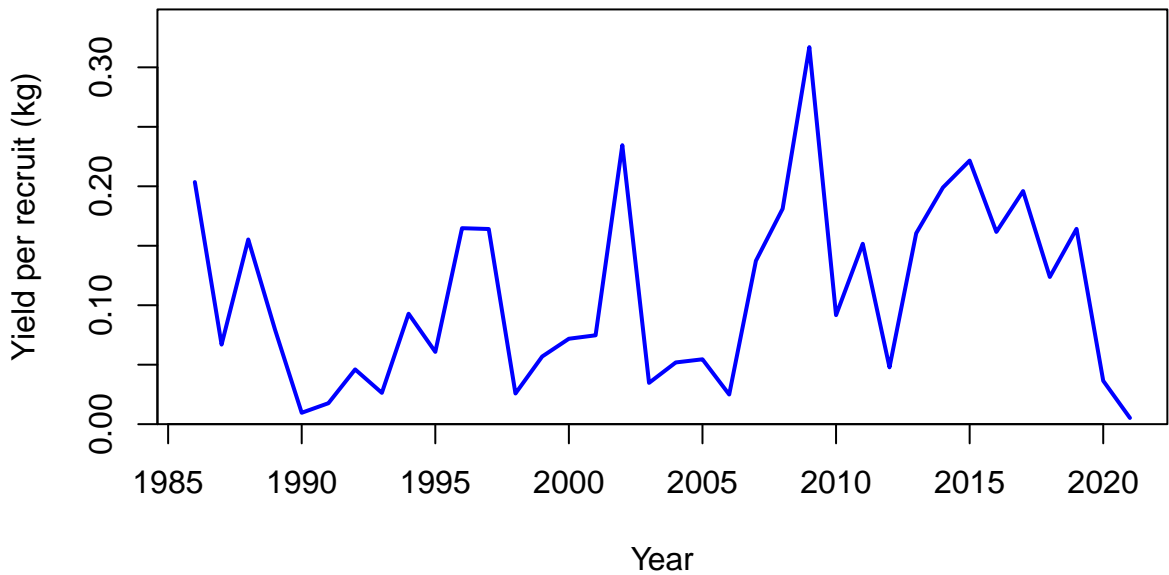


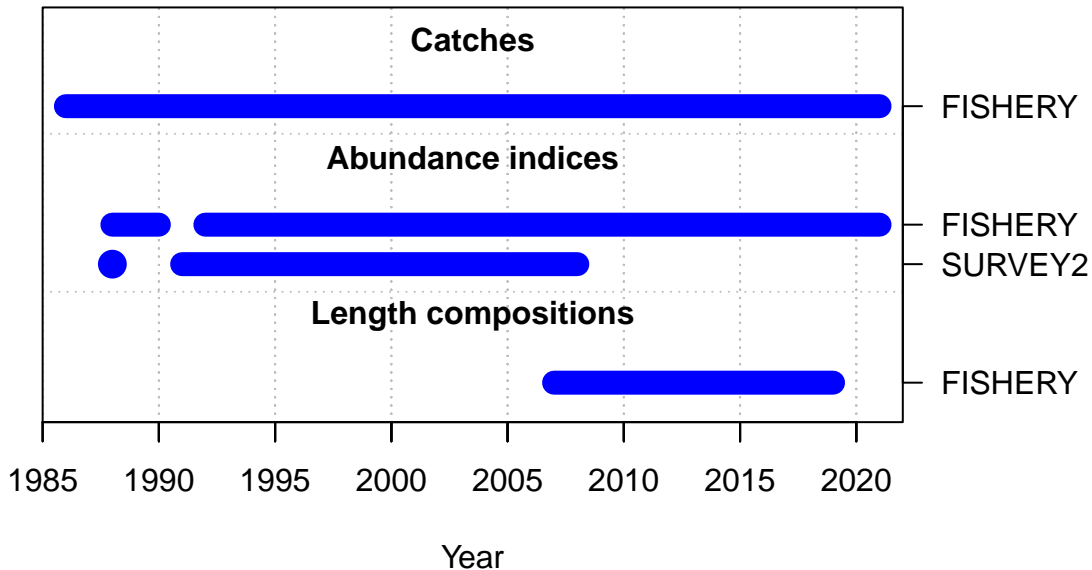


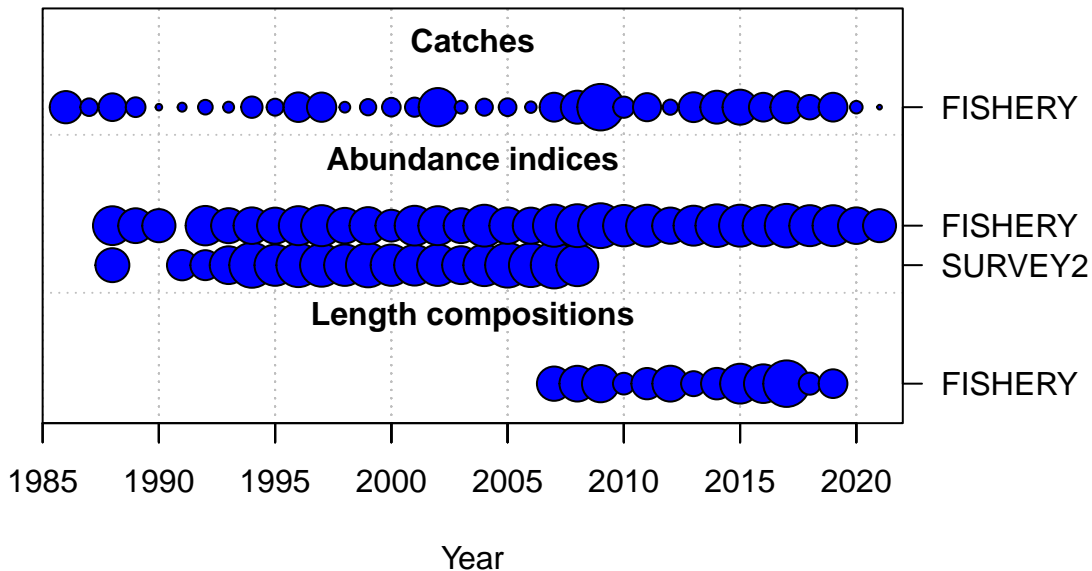




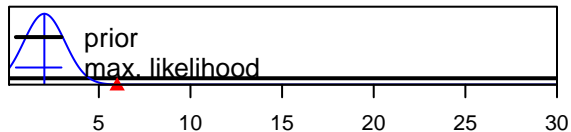




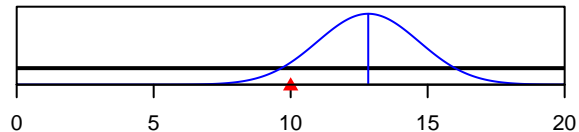




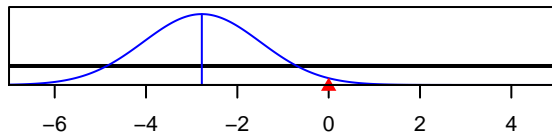
SR\_LN(R0)



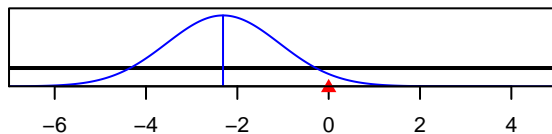
Size\_95%width\_FISHERY(1)



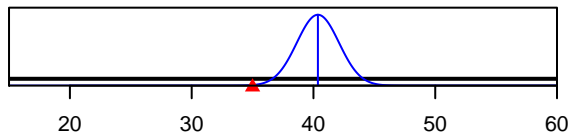
LnQ\_base\_FISHERY(1)



LnQ\_base\_SURVEY2(2)



Size\_inflection\_FISHERY(1)



Parameter value