

Plots created using the 'r4ss' package in R  
Stock Synthesis version: 3.30.19.0  
StartTime: Tue Oct 11 12:44:01 2022  
Data\_File: data.ss  
Control\_File: control.ss

Length (cm, beginning of the year)













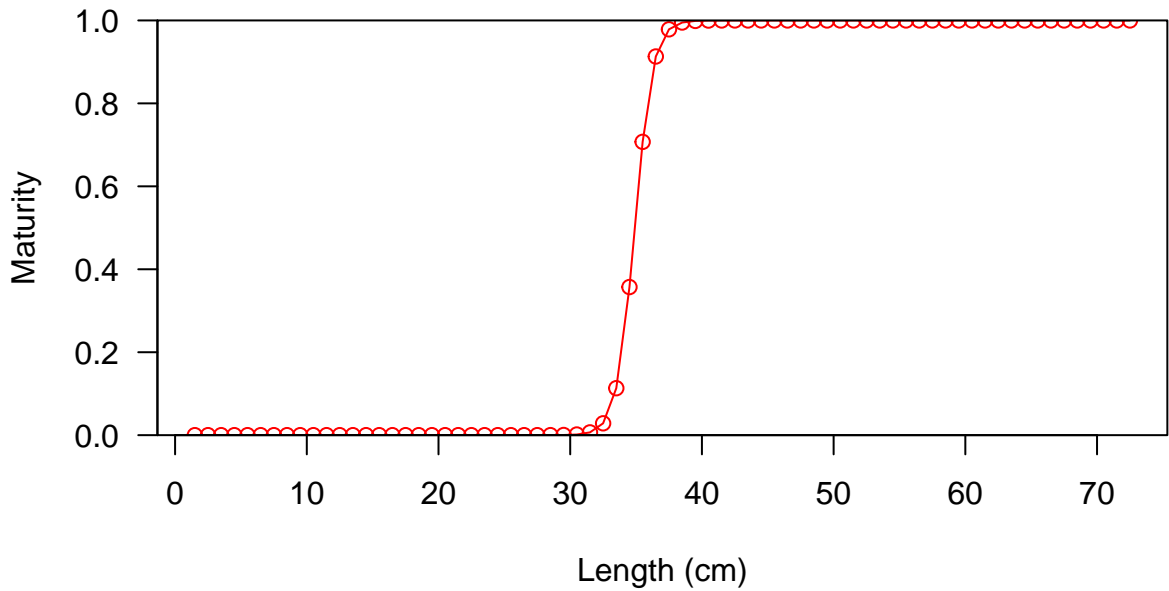






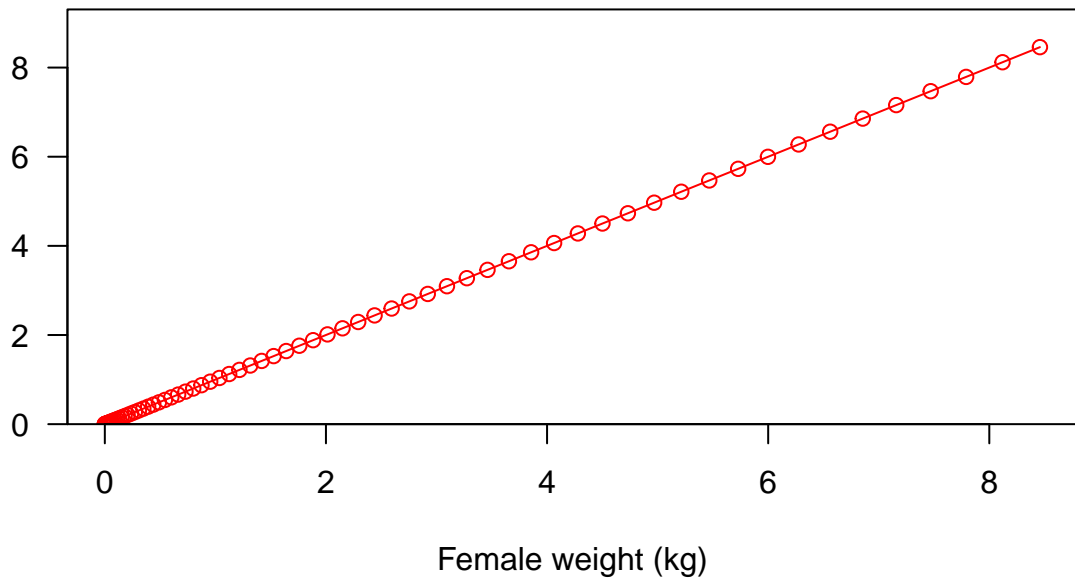








Fecundity



Fecundity

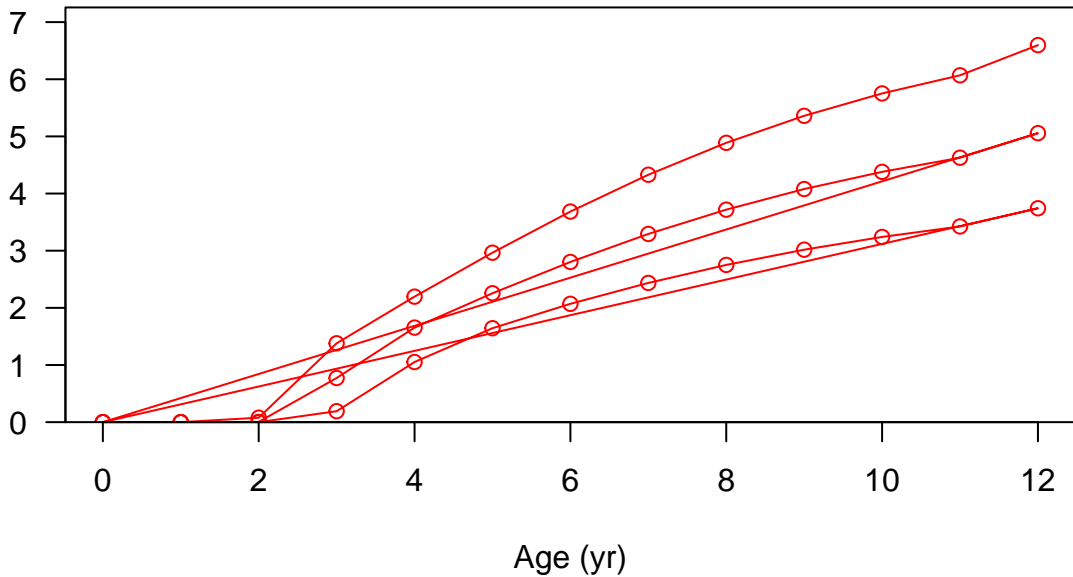


Spawning output

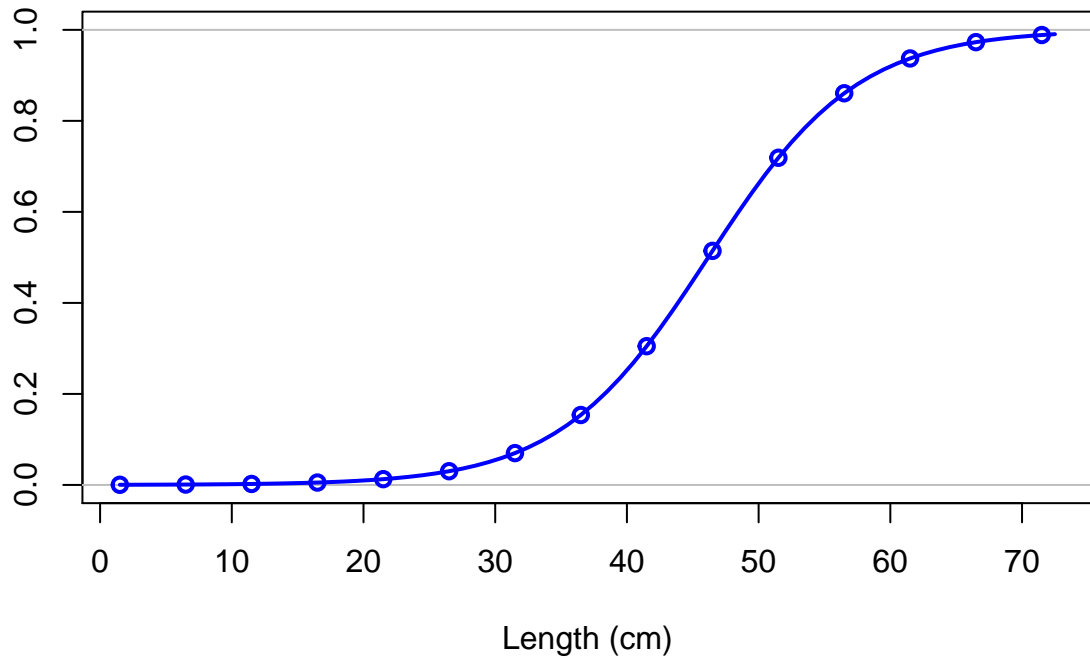




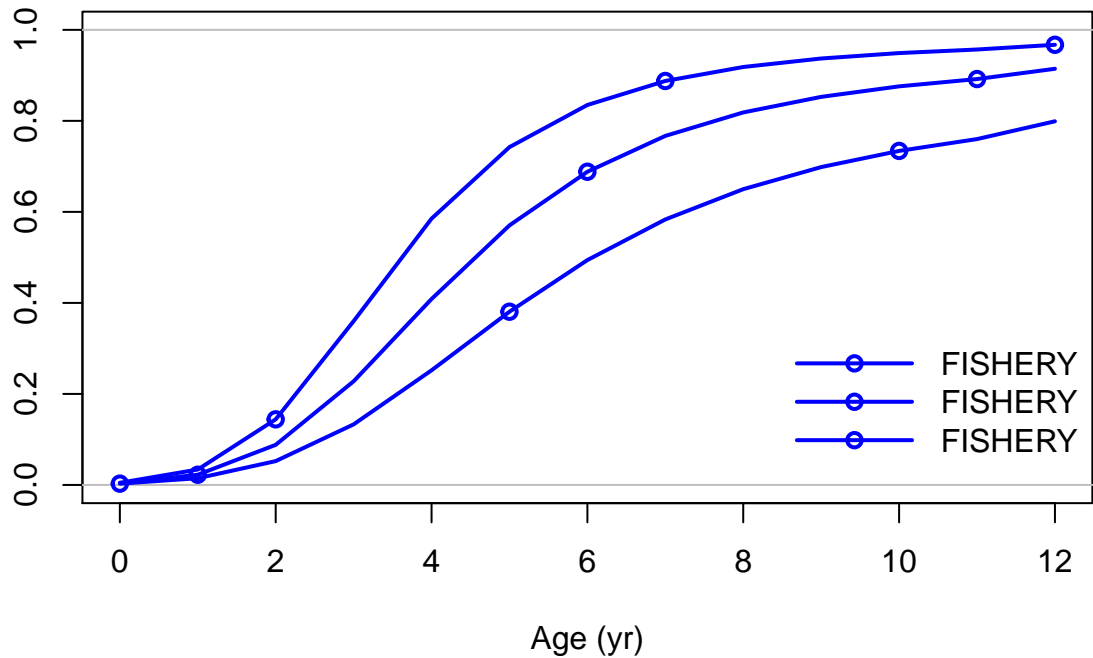
Spawning output



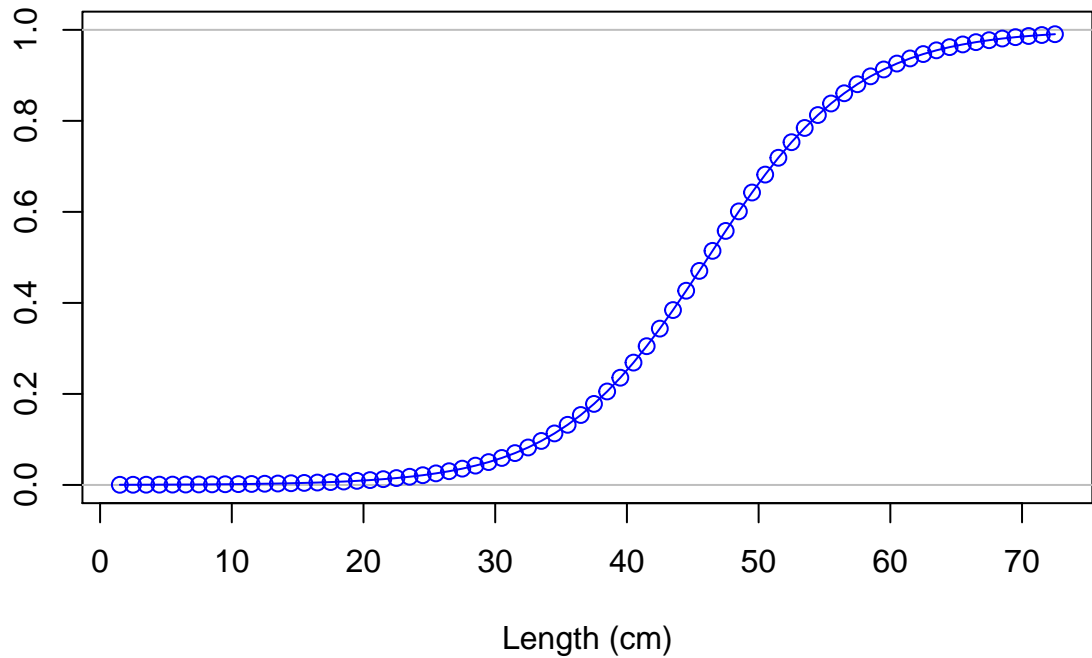
Selectivity

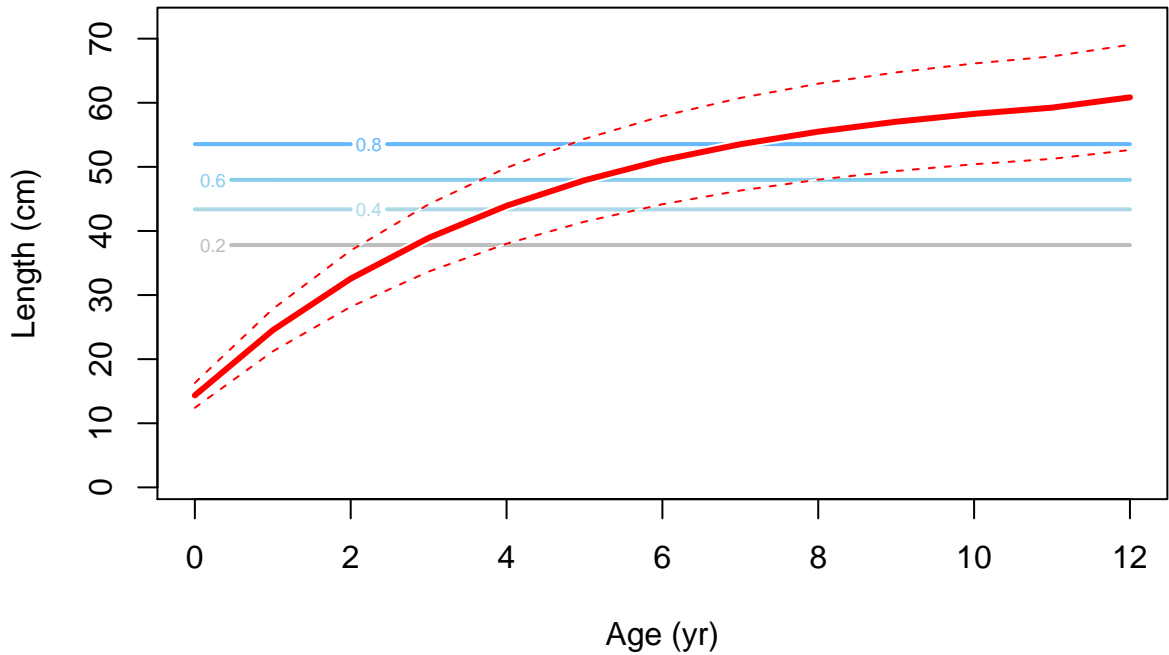


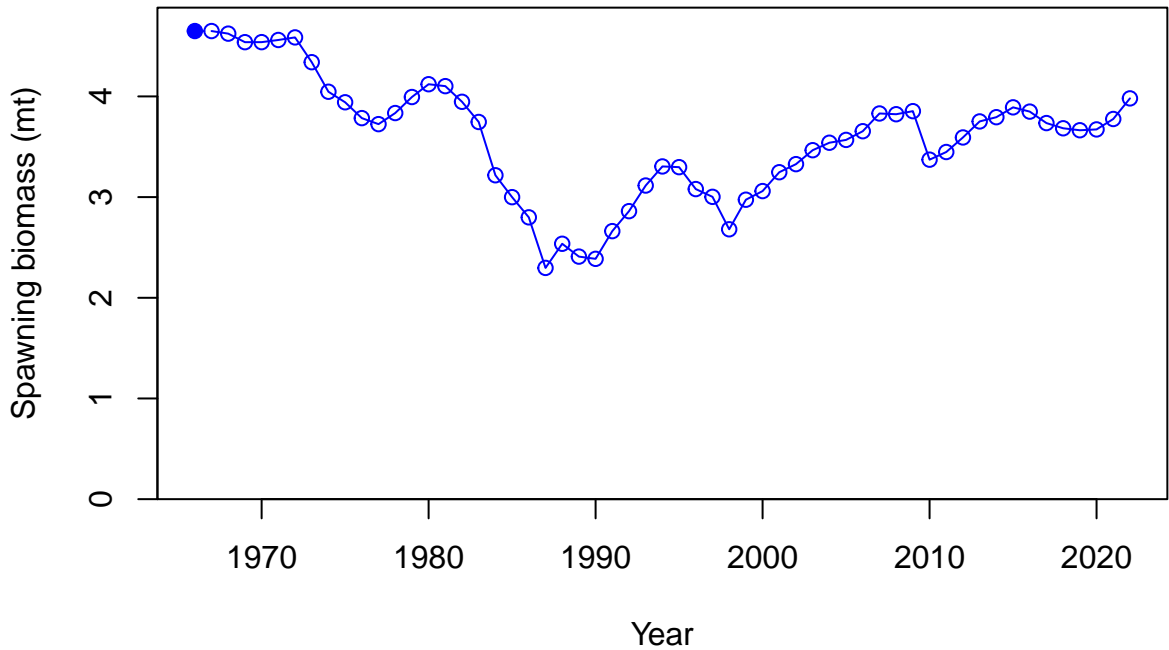
Selectivity

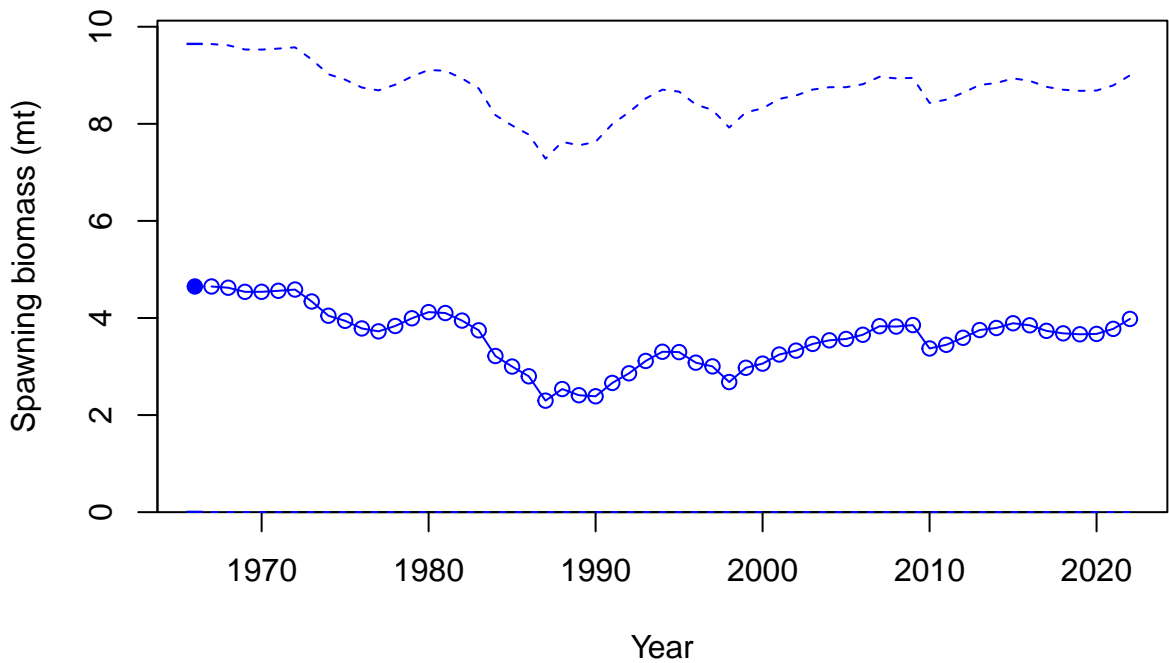


Selectivity

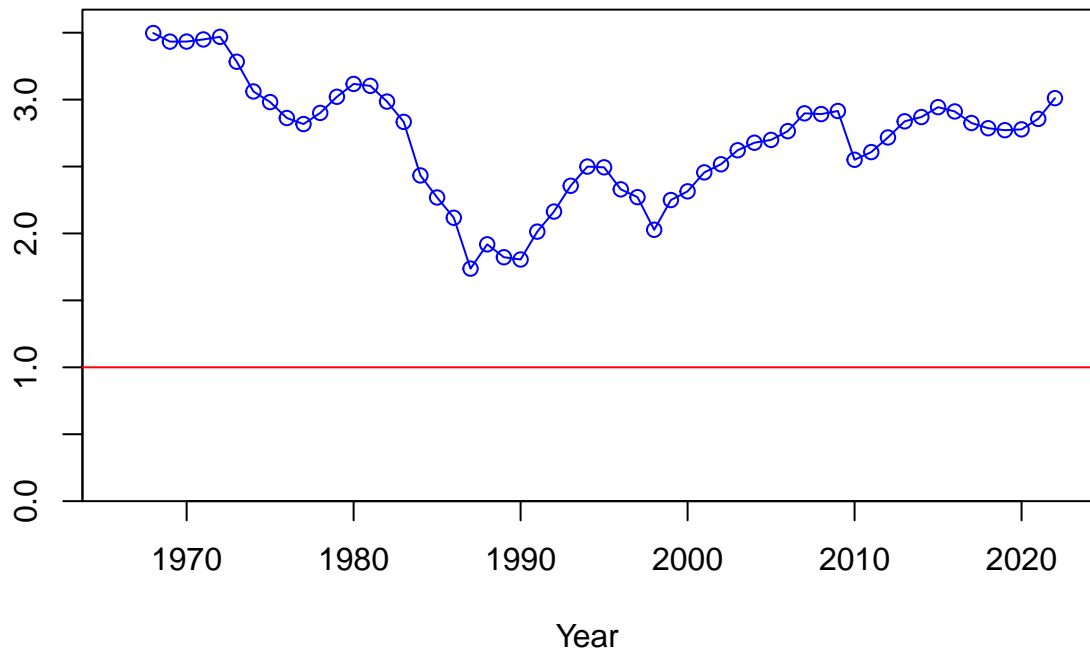






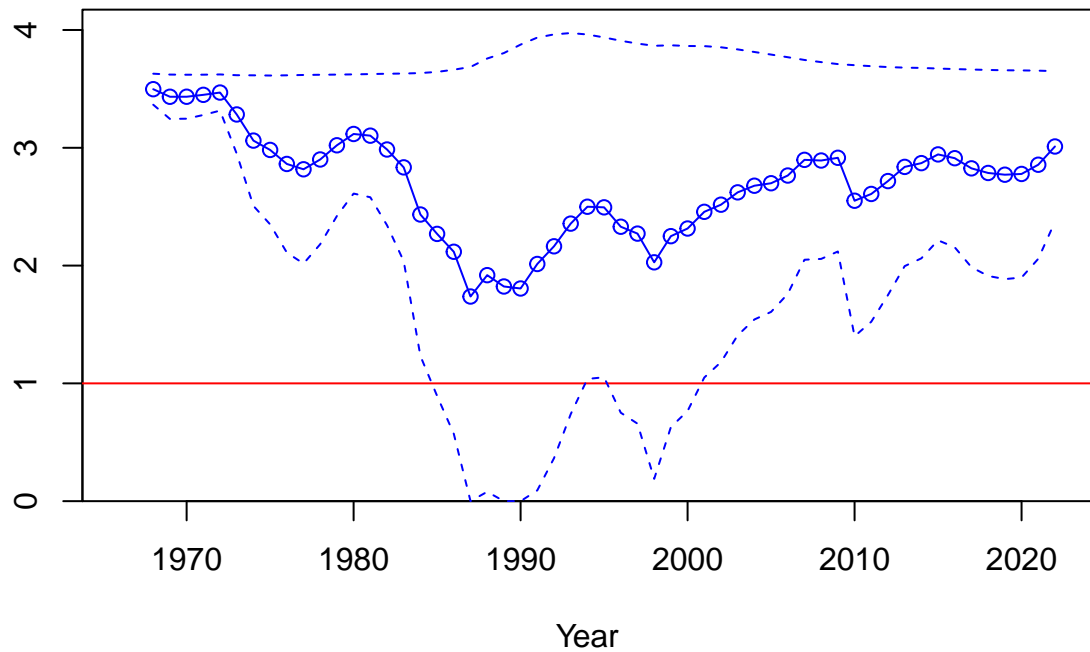


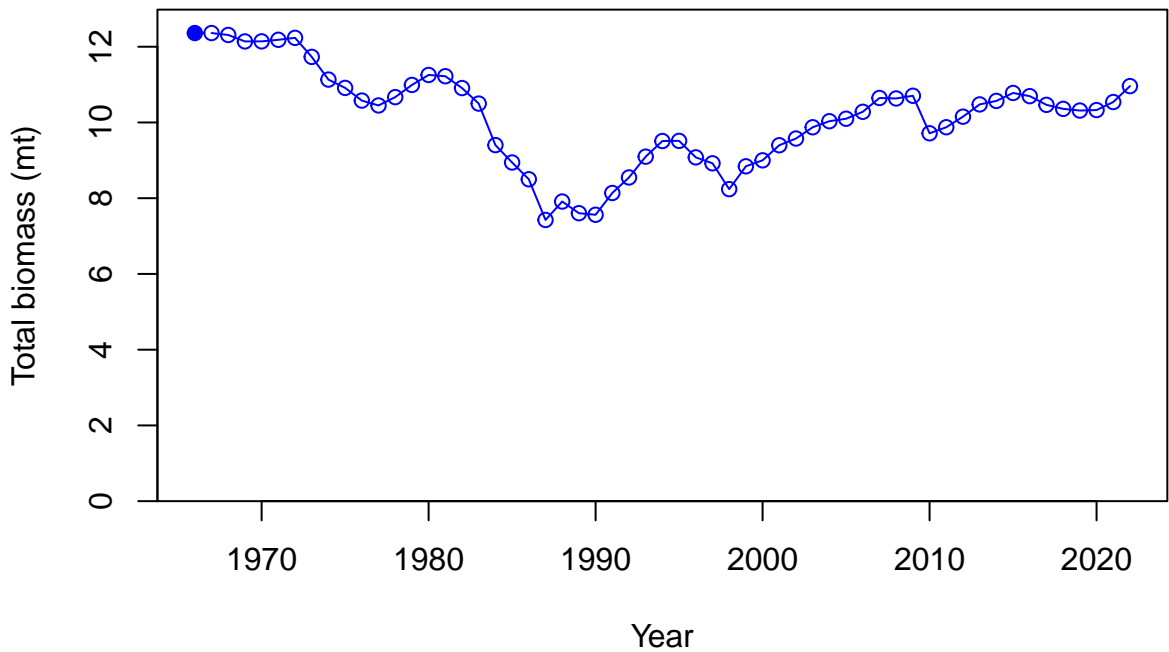
Relative spawning biomass:  $B/B_{MSY}$

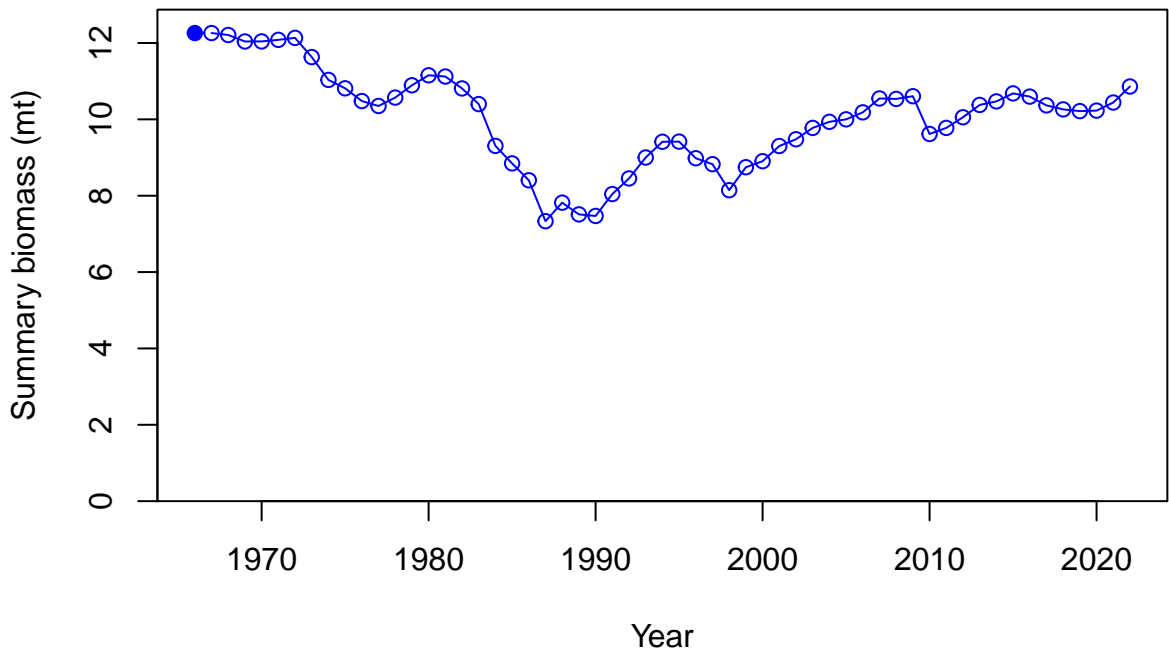




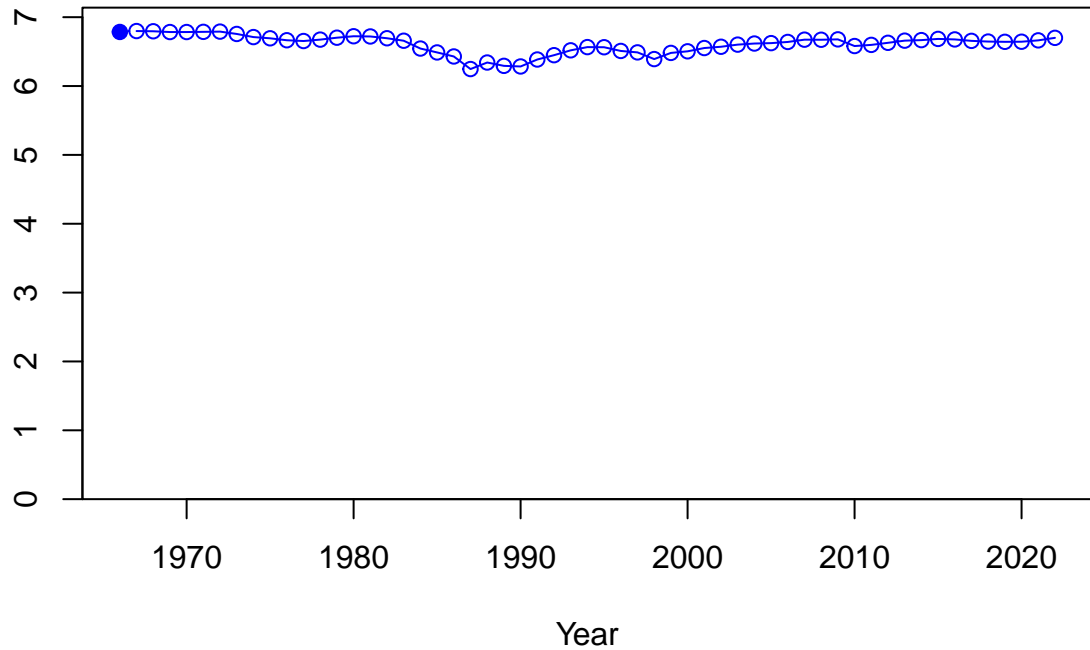
Relative spawning biomass:  $B/B_{MSY}$

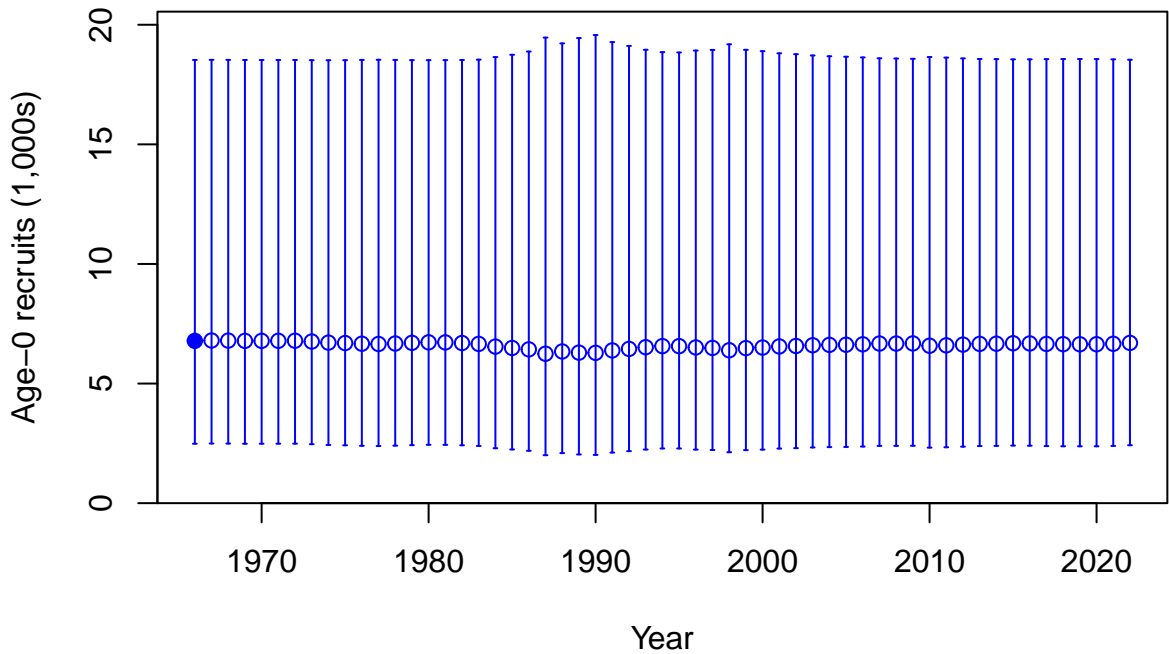




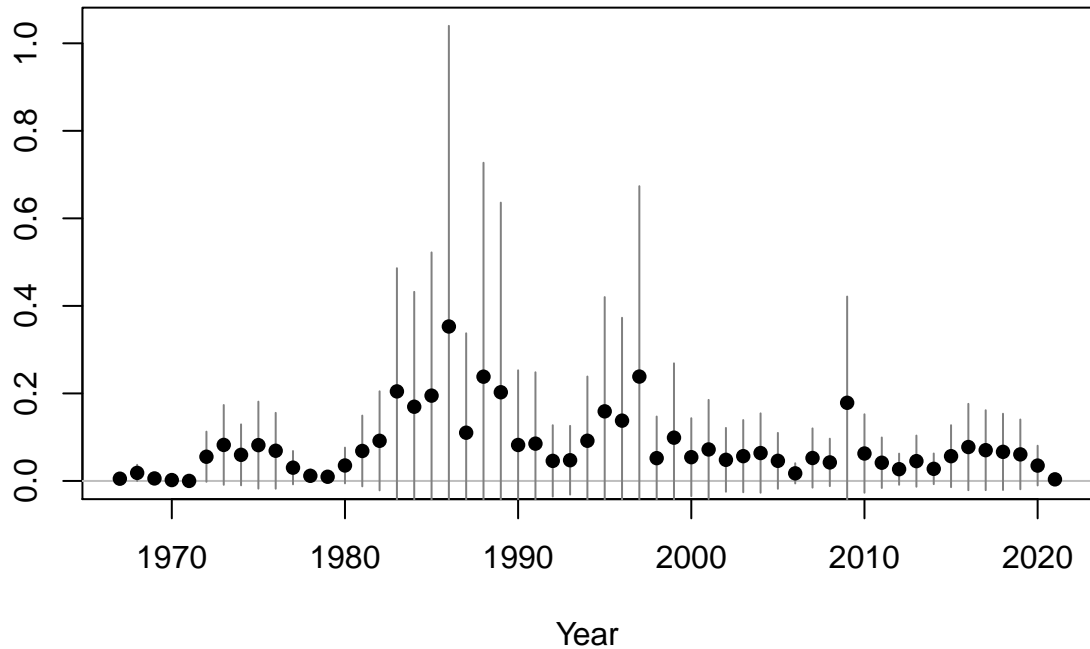


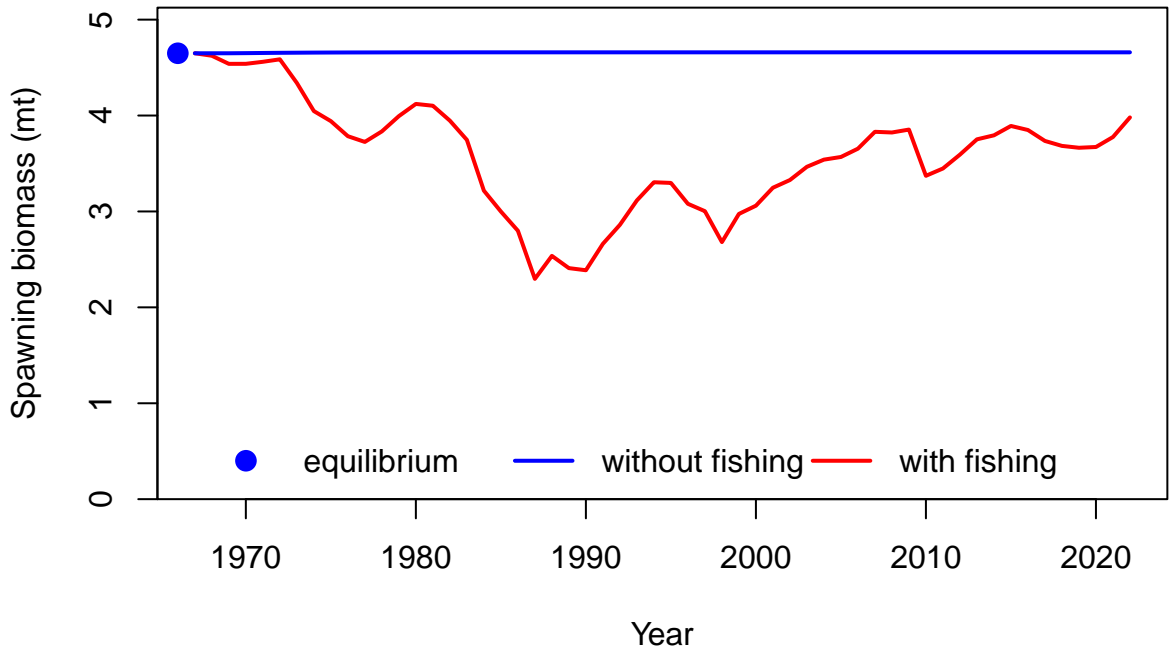
Age-0 recruits (1,000s)

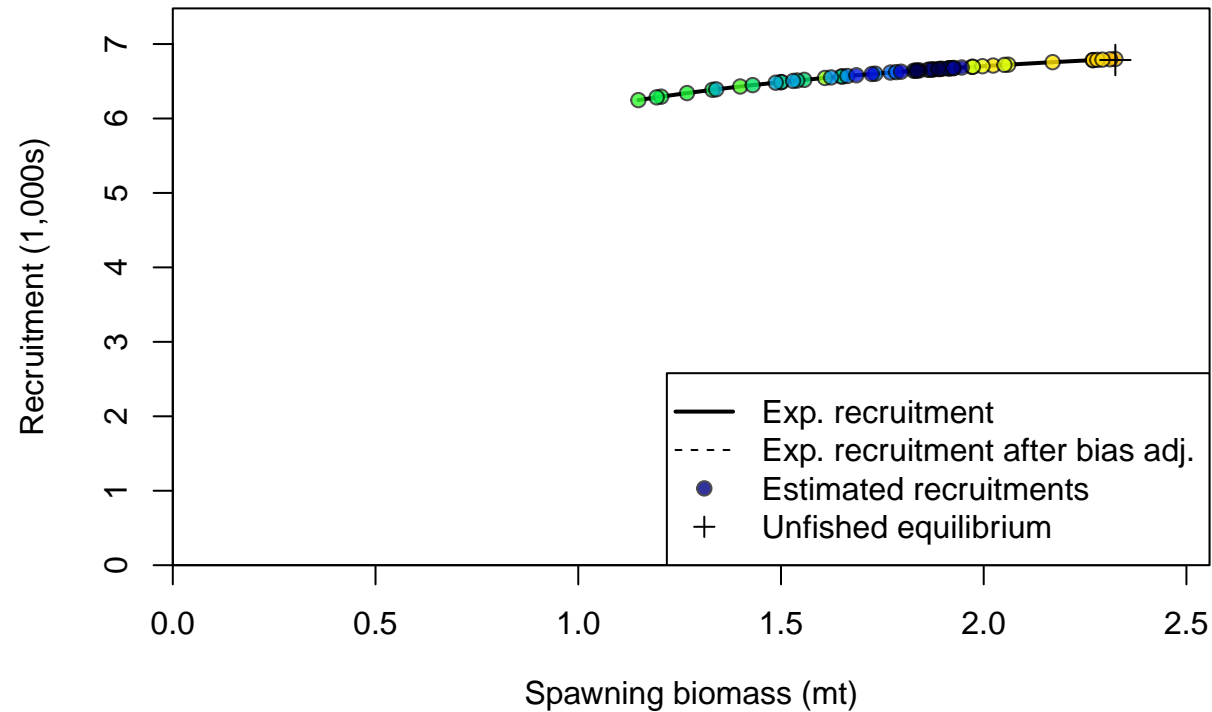




Summary Fishing Mortality









Recruitment (1,000s)

7  
6  
5  
4  
3  
2  
1  
0

0.0

0.5

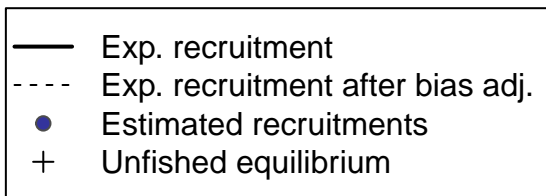
1.0

1.5

2.0

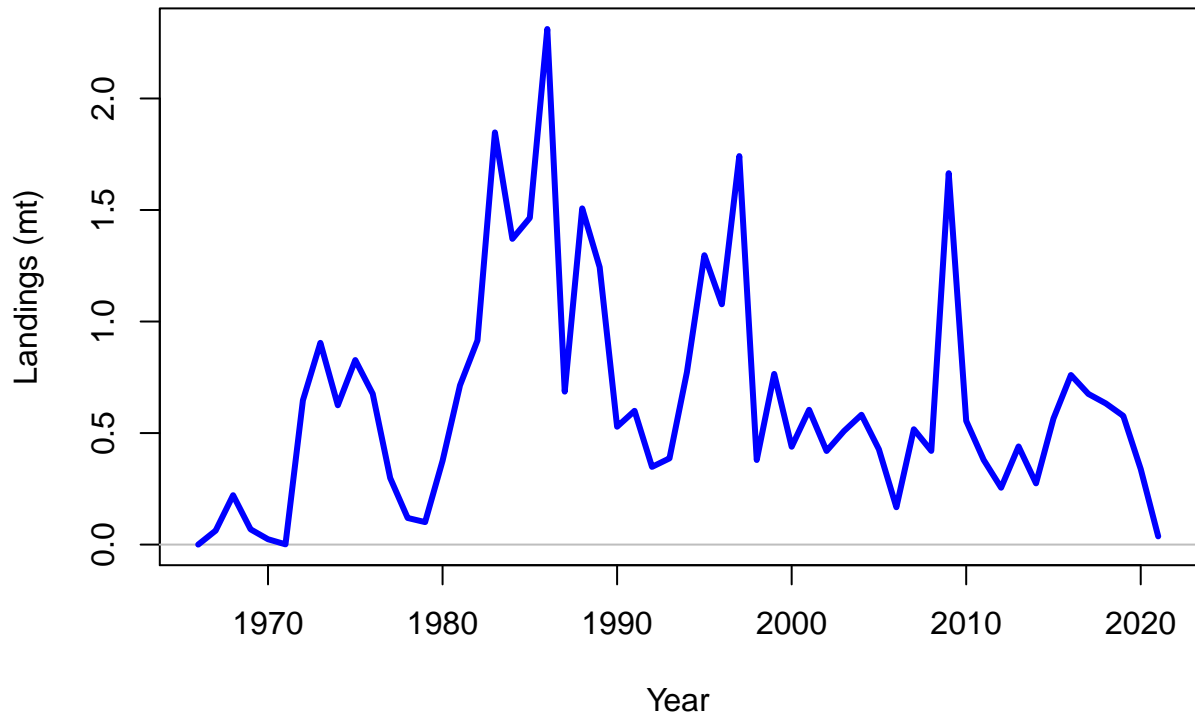
2.5

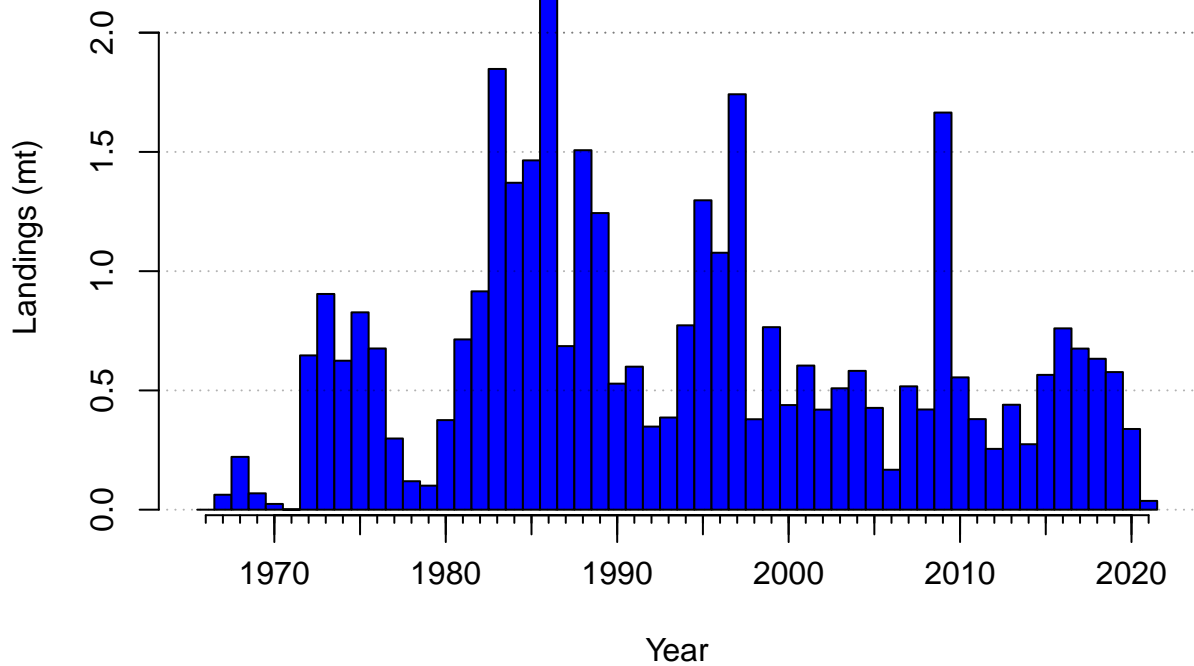
Spawning biomass (mt)

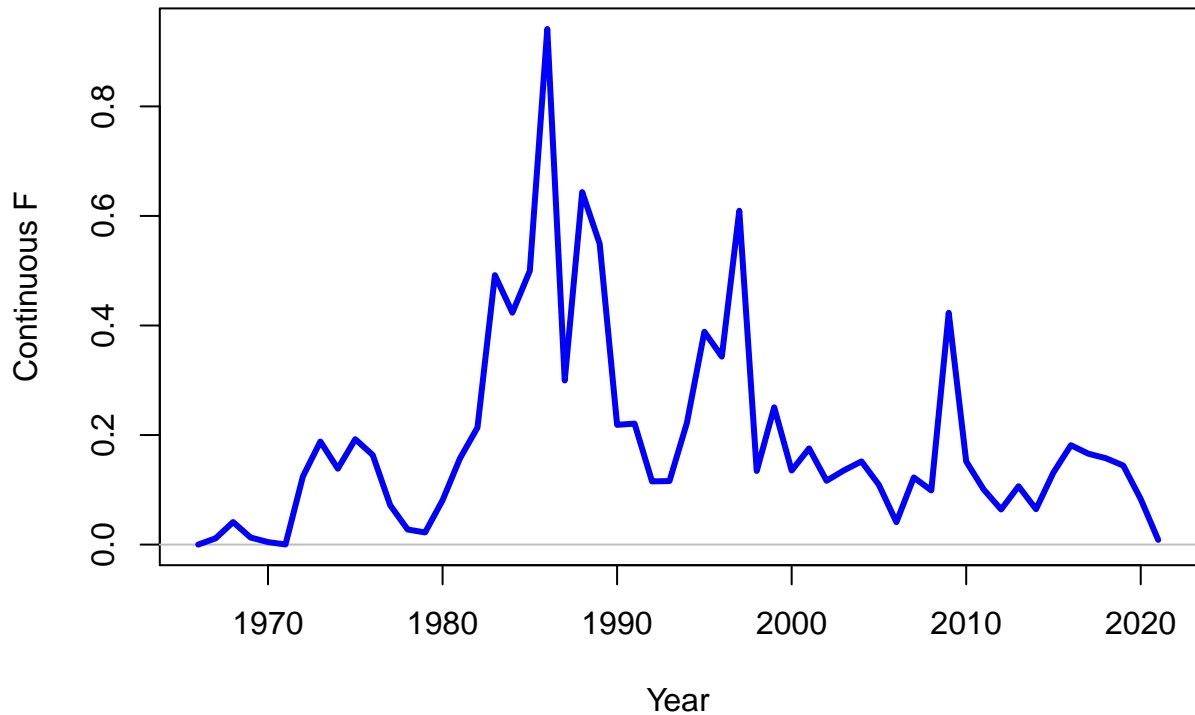


2021

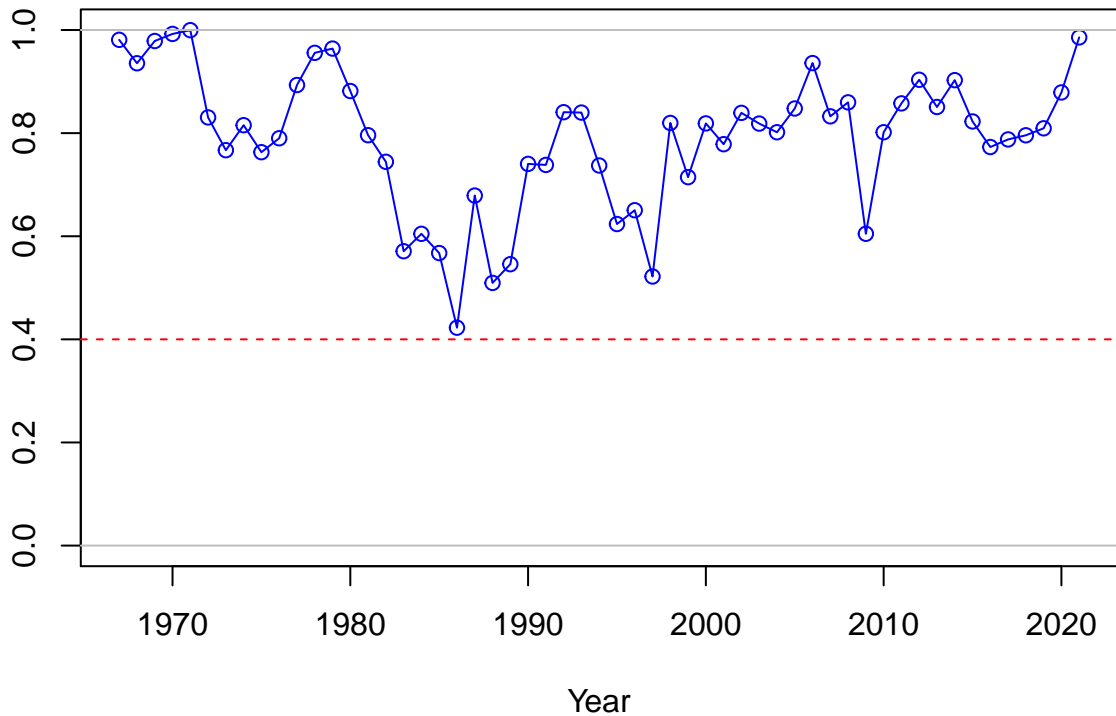
1967



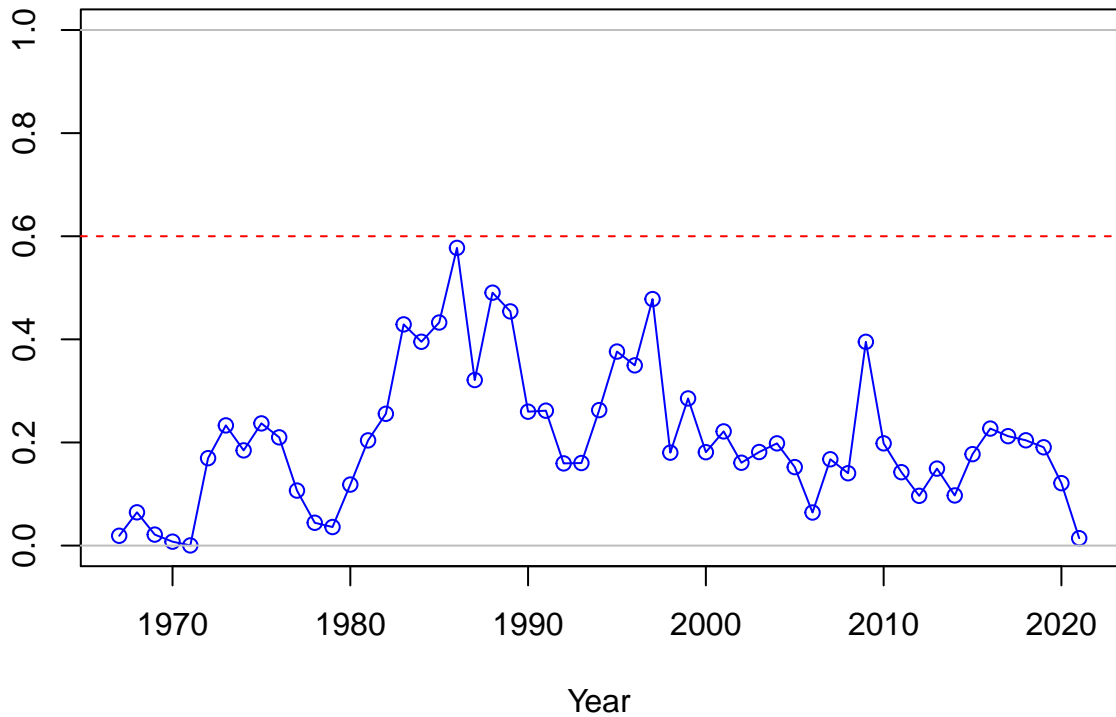




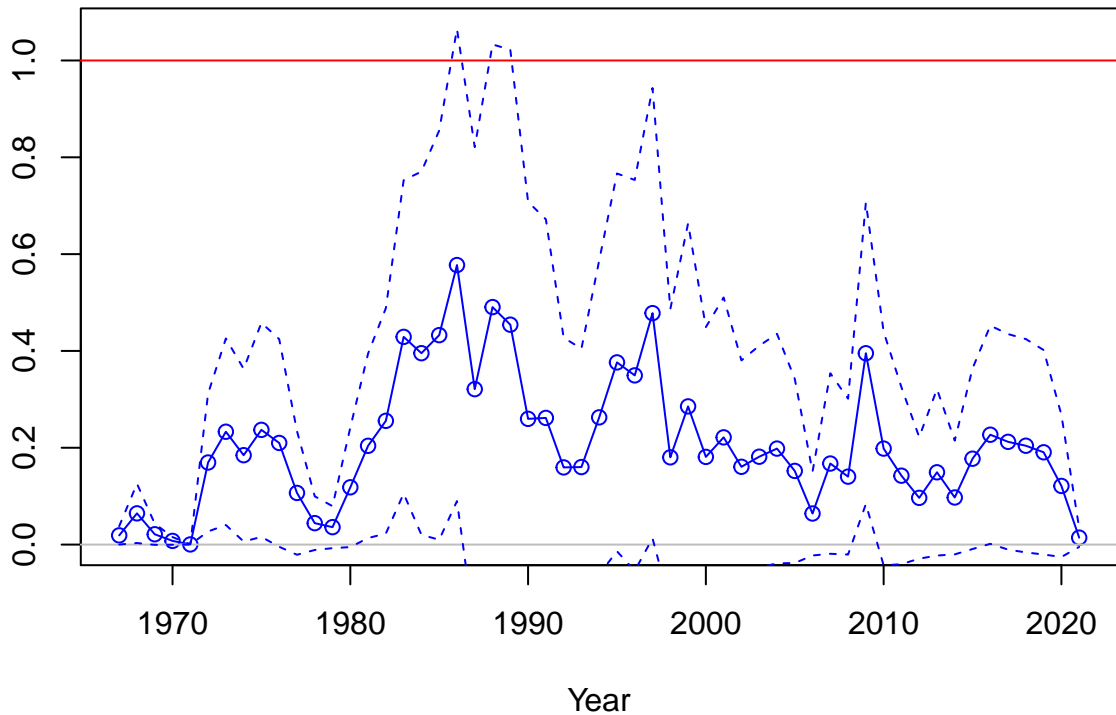
SPR



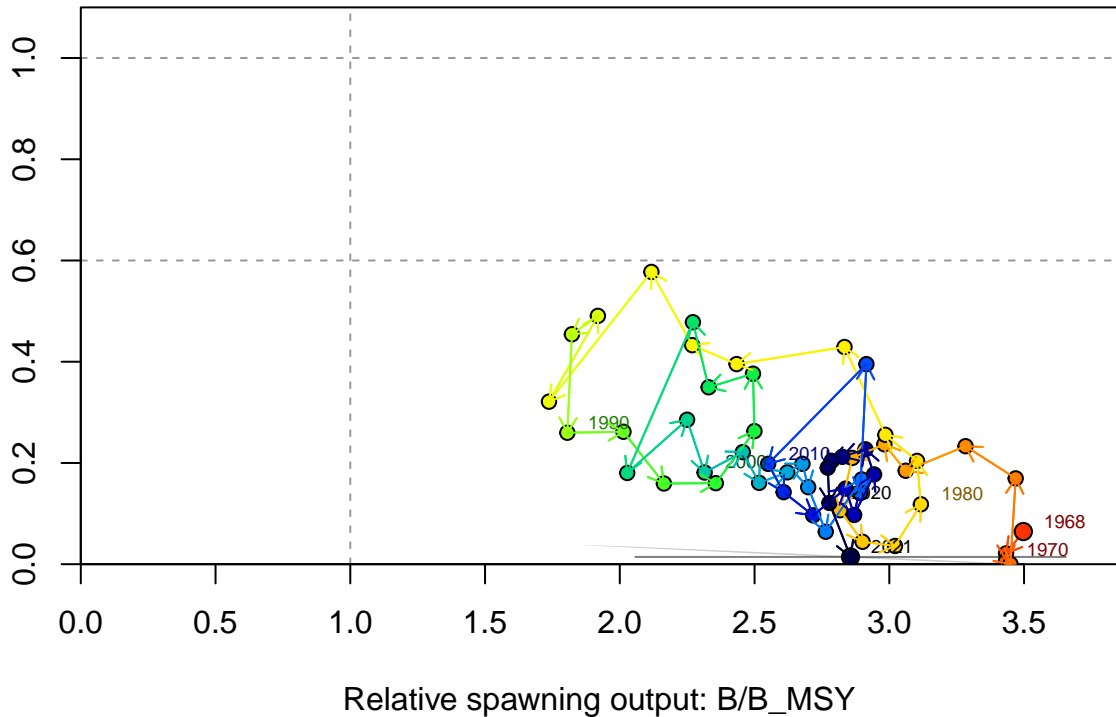
1-SPR



Fishing intensity: 1-SPR



Fishing intensity: 1-SPR





Index

5  
4  
3  
2  
1  
0

2016

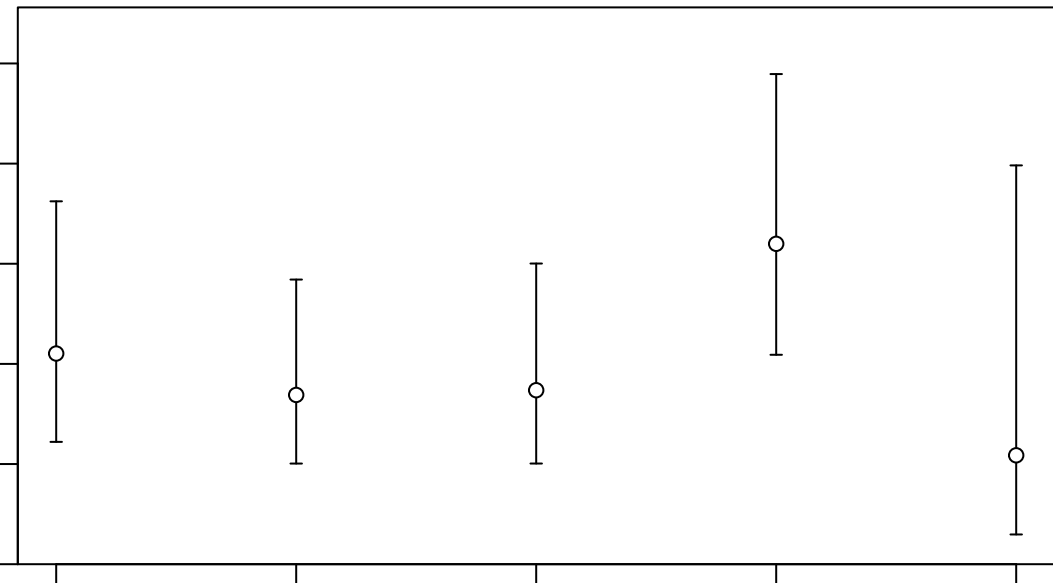
2017

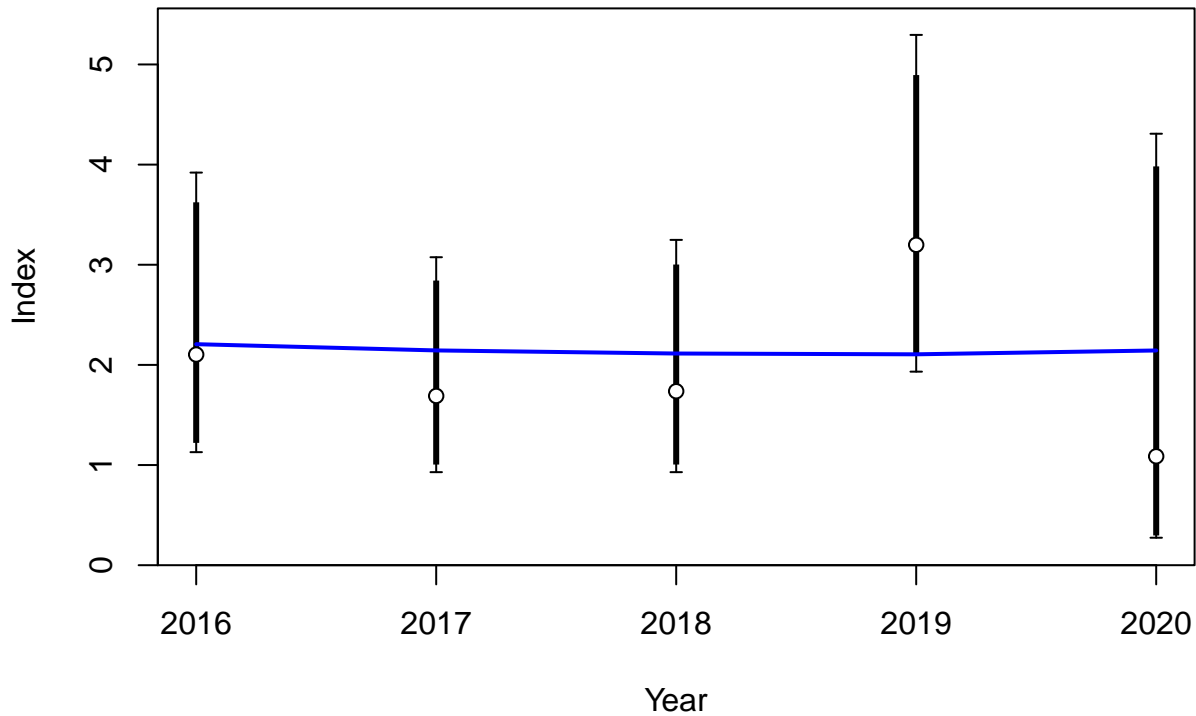
2018

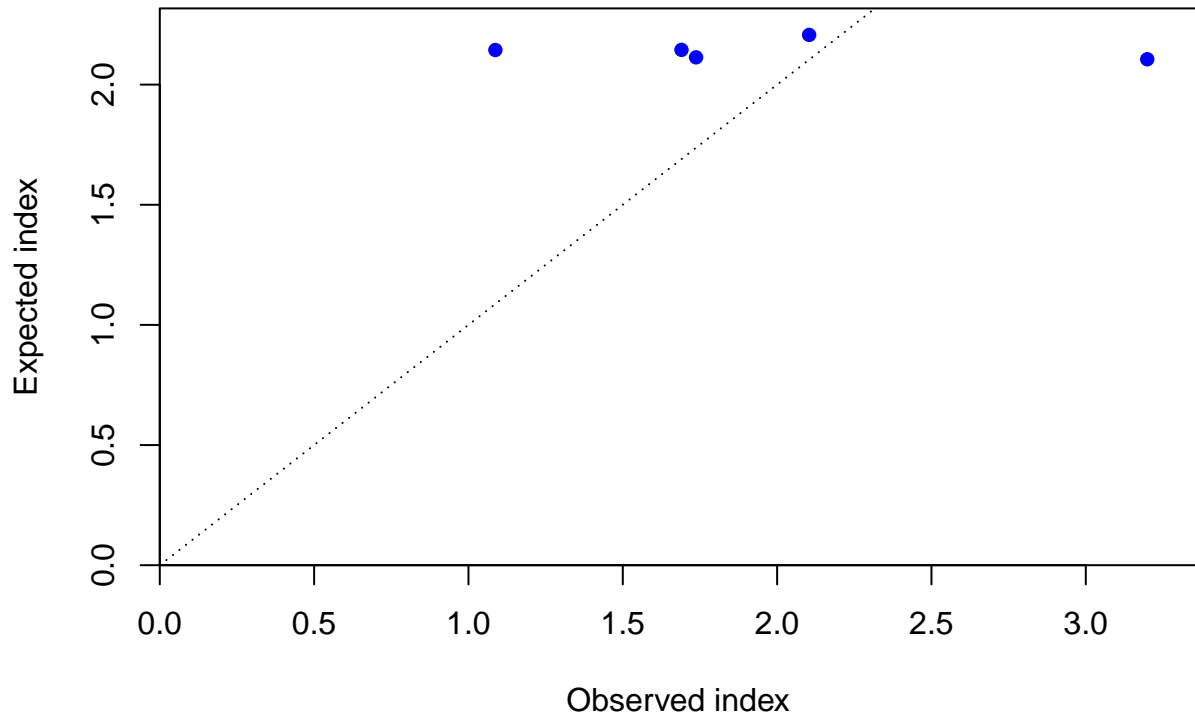
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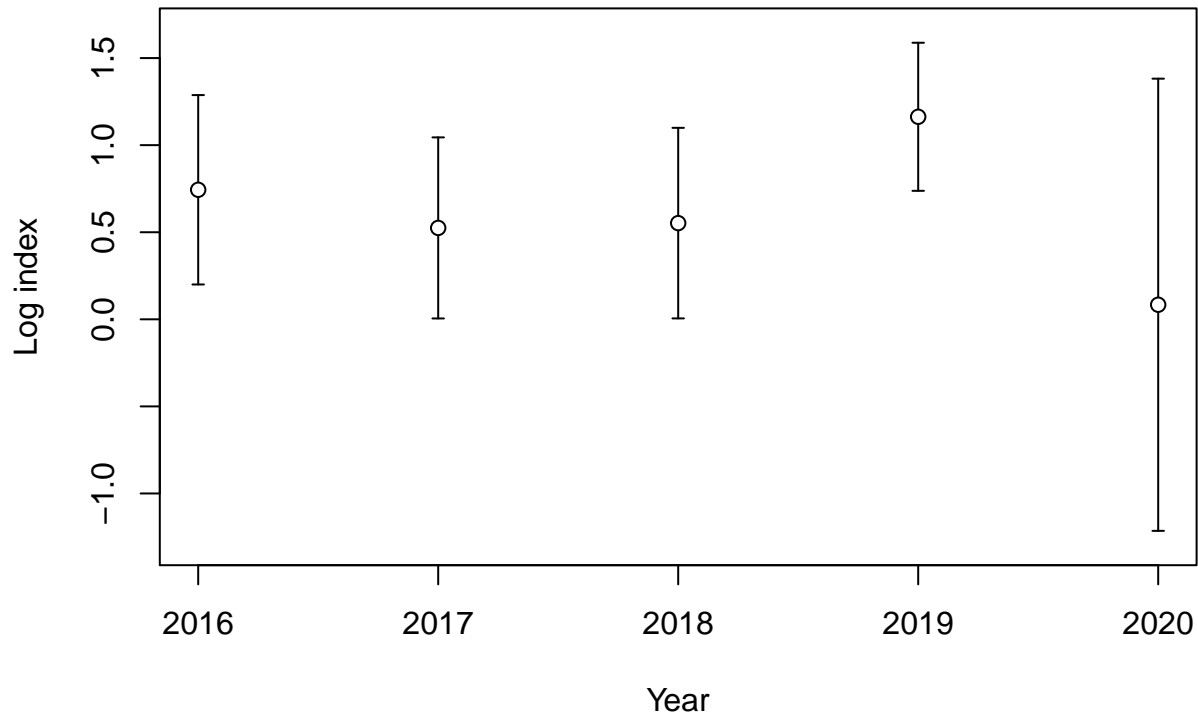
2020

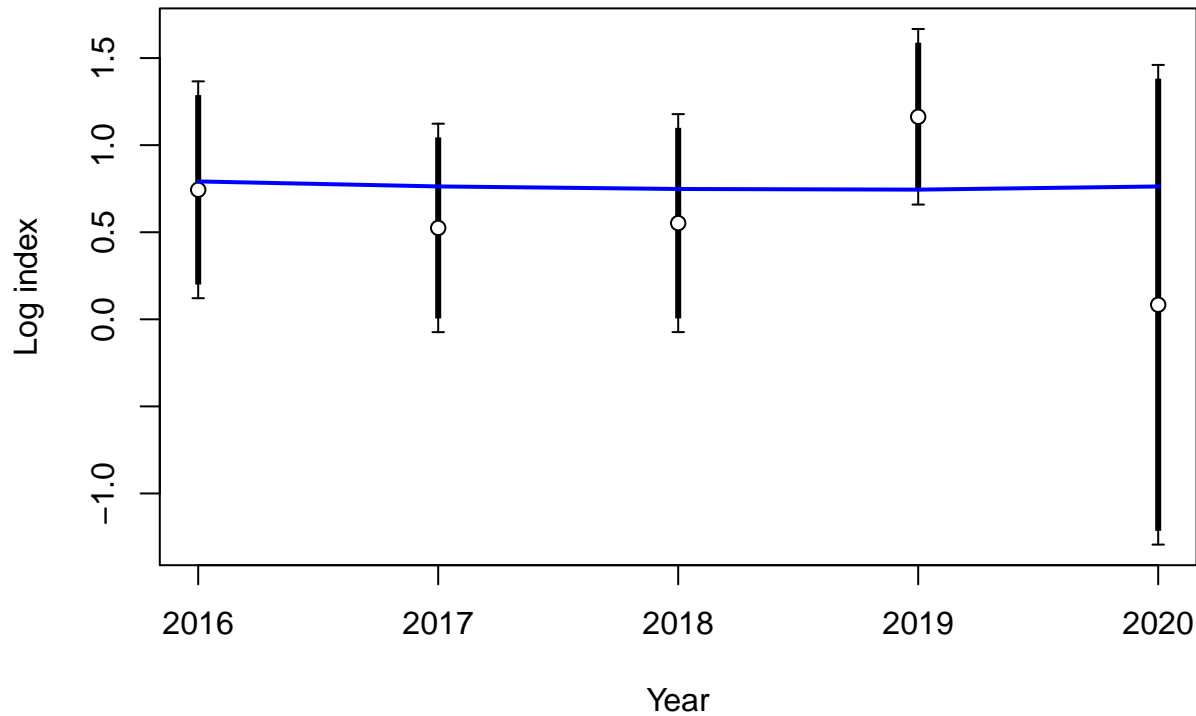
Year

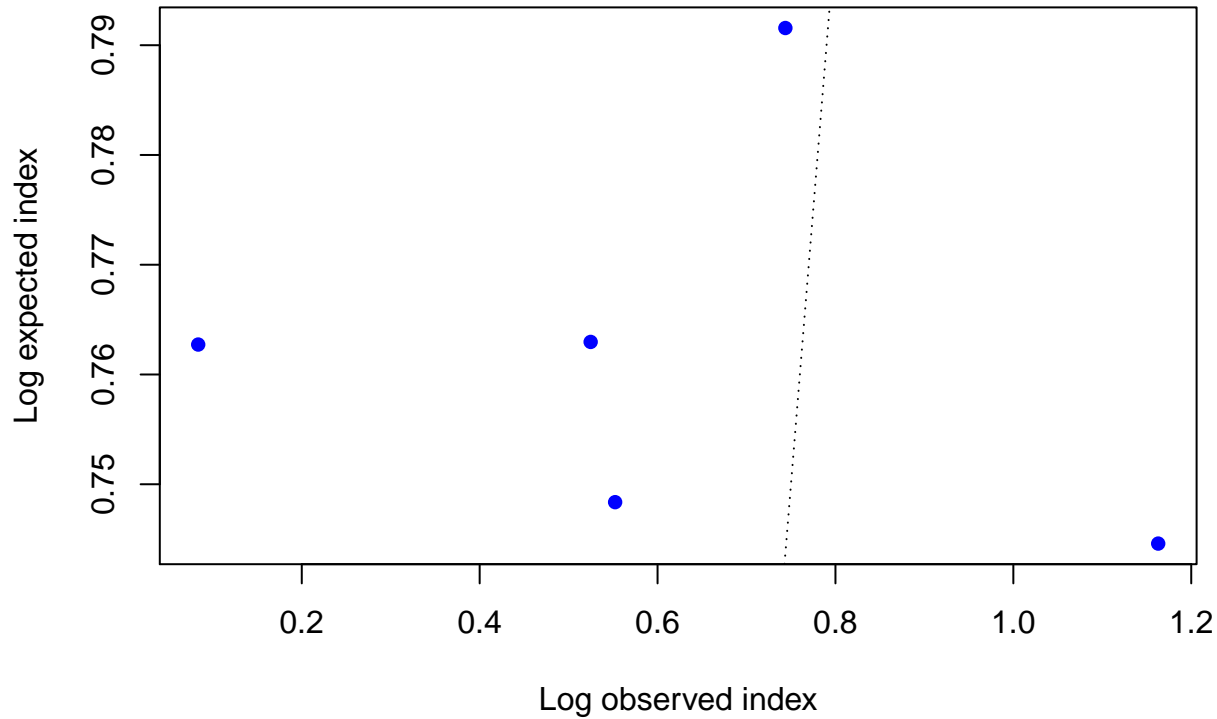




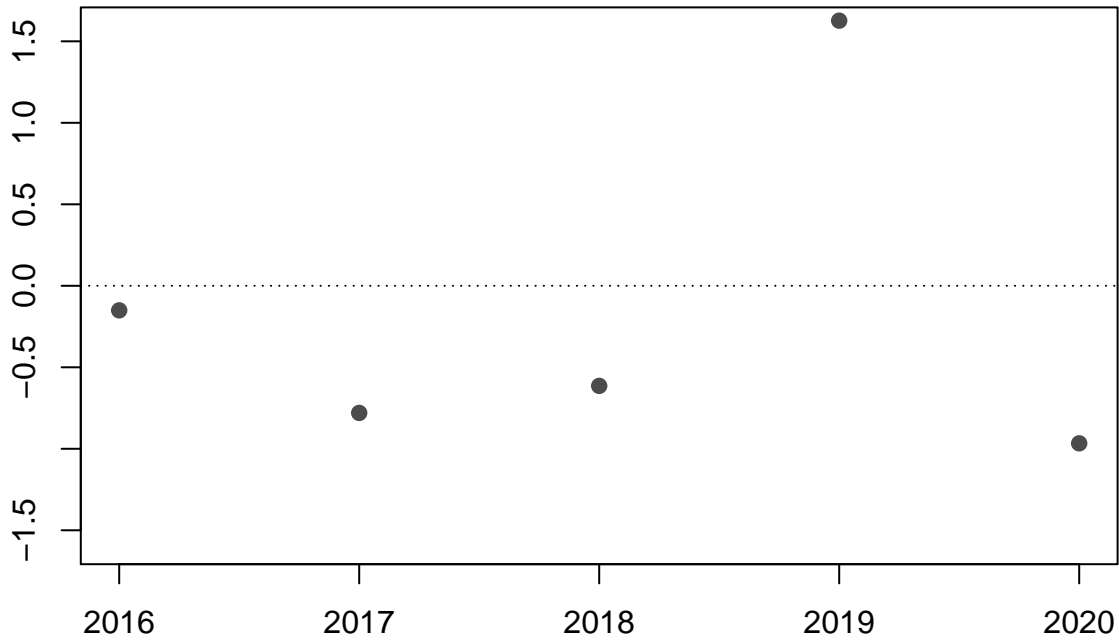




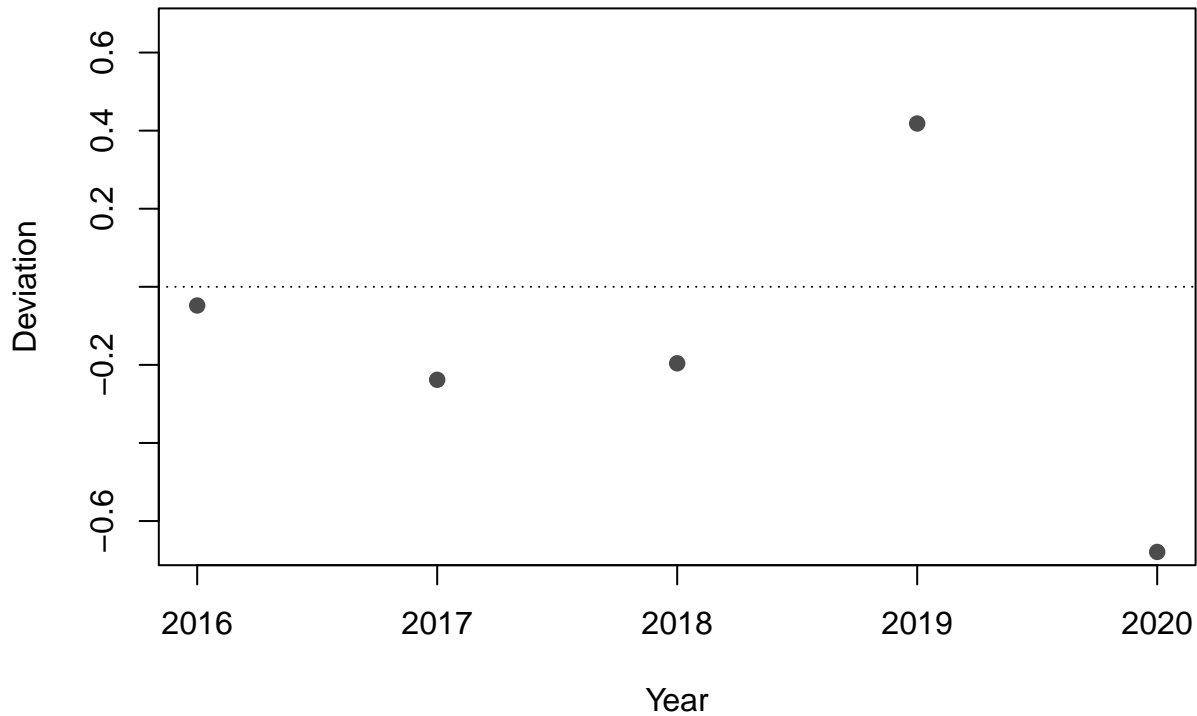




Residual



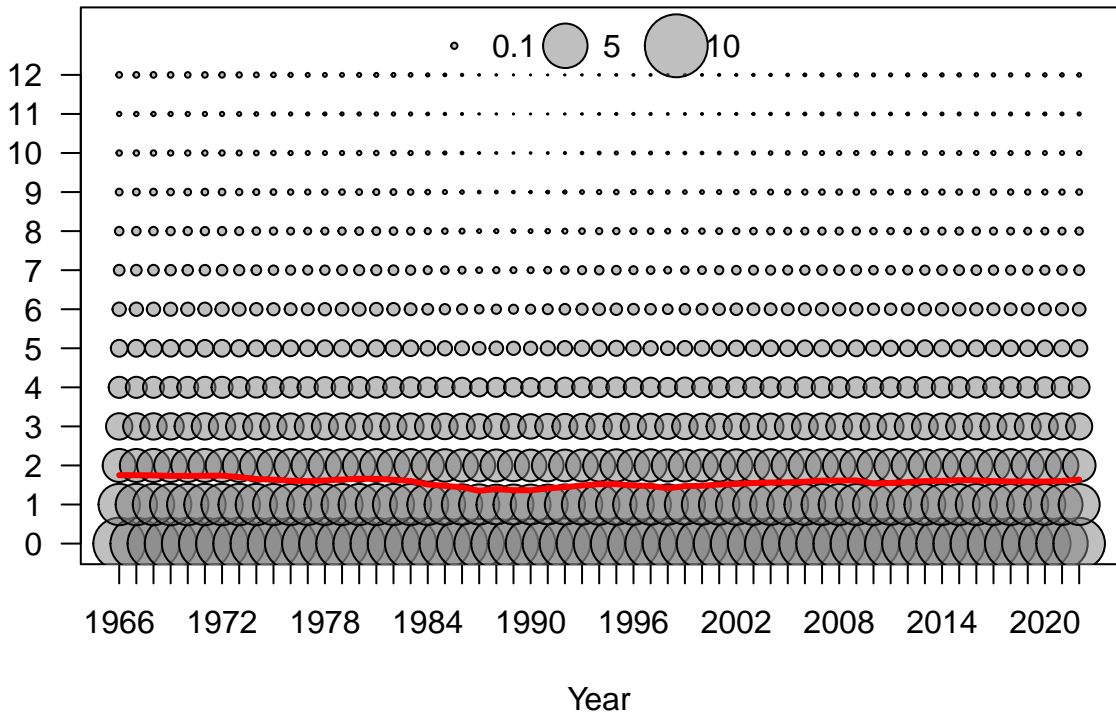
Year

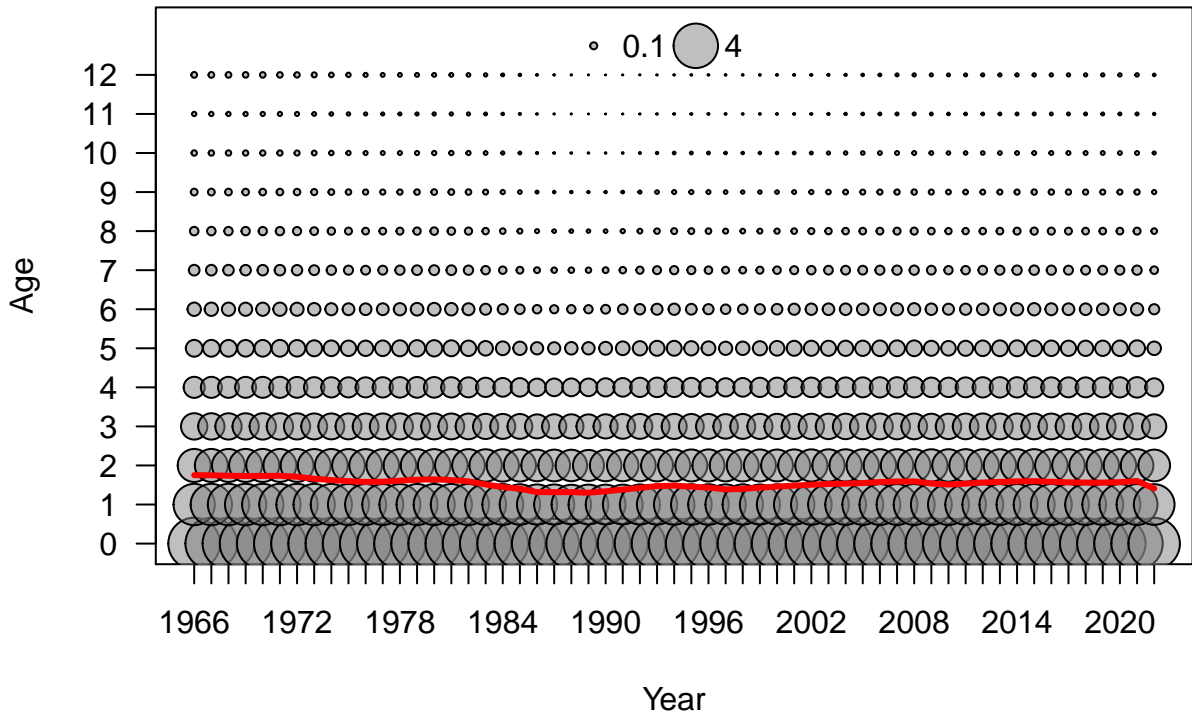


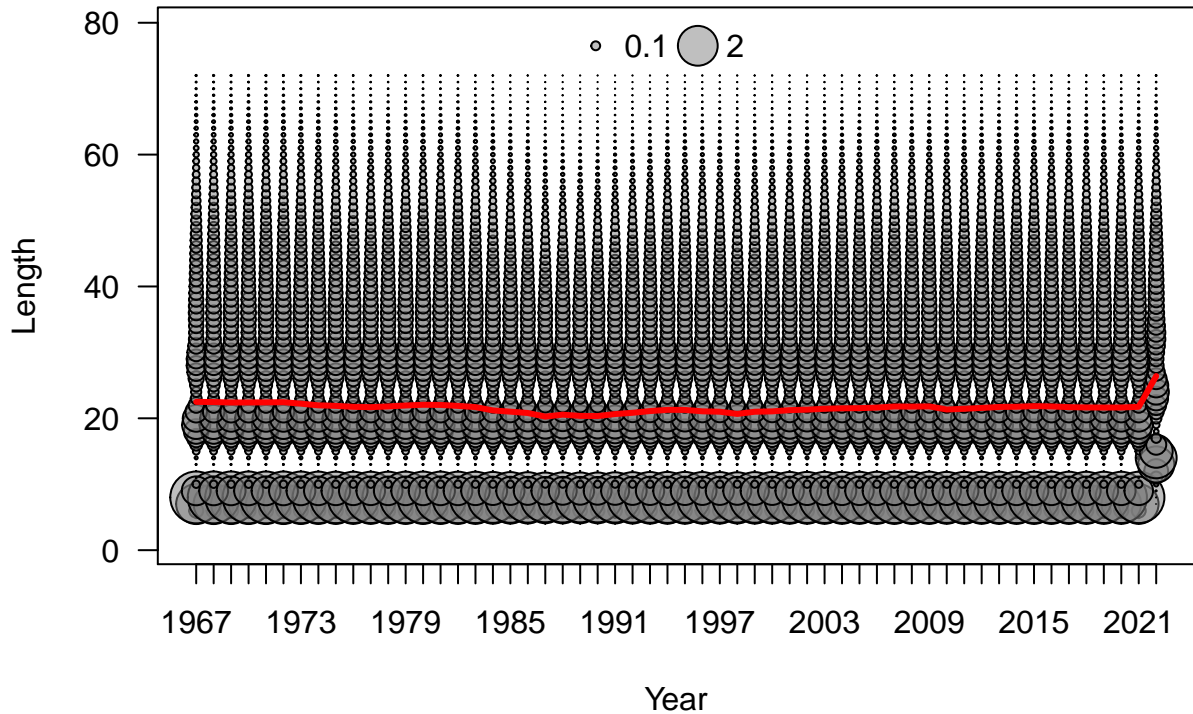


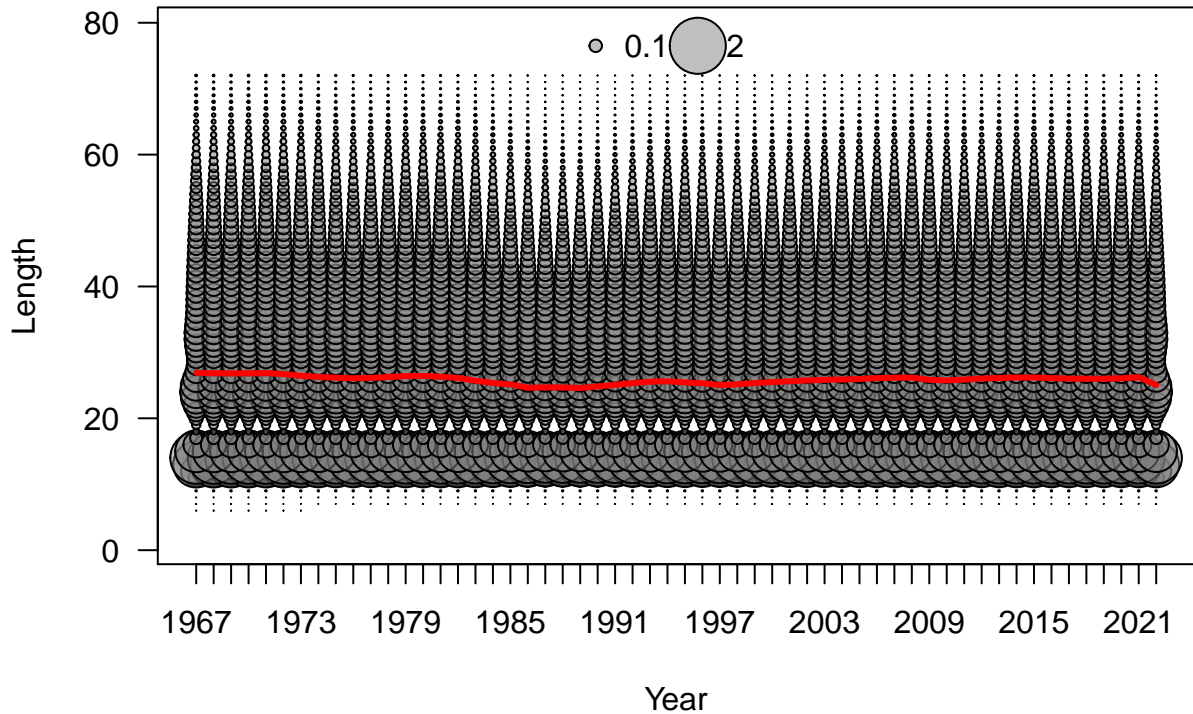


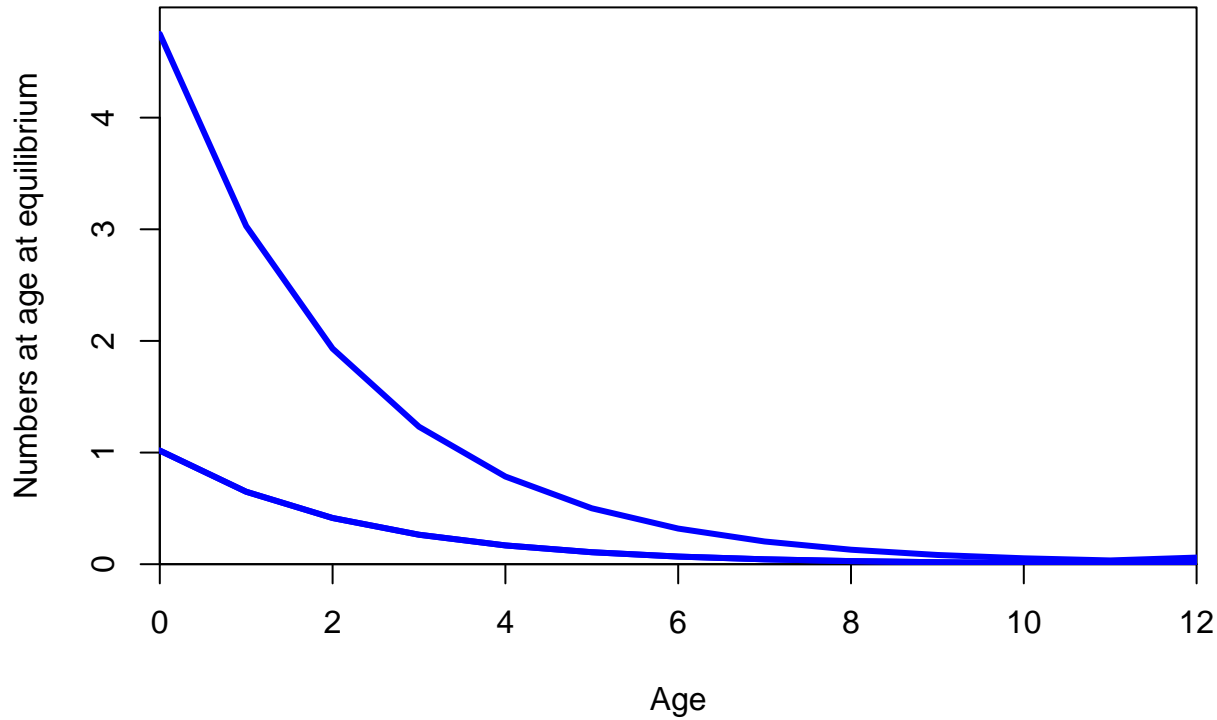
Age

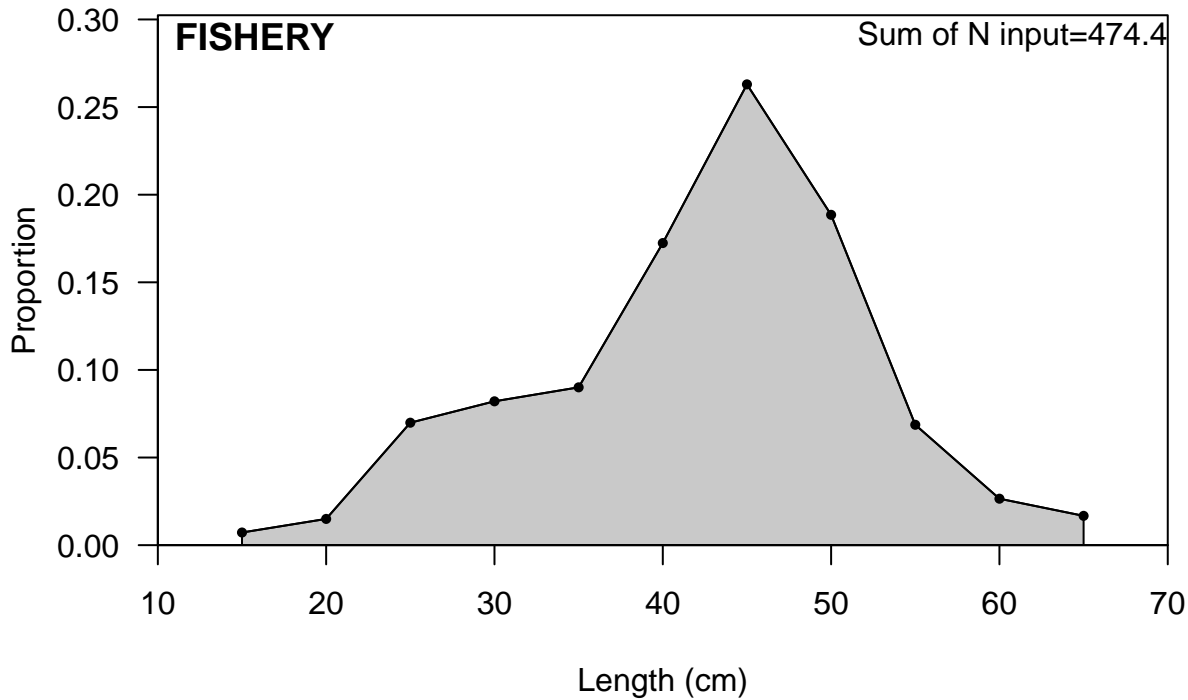






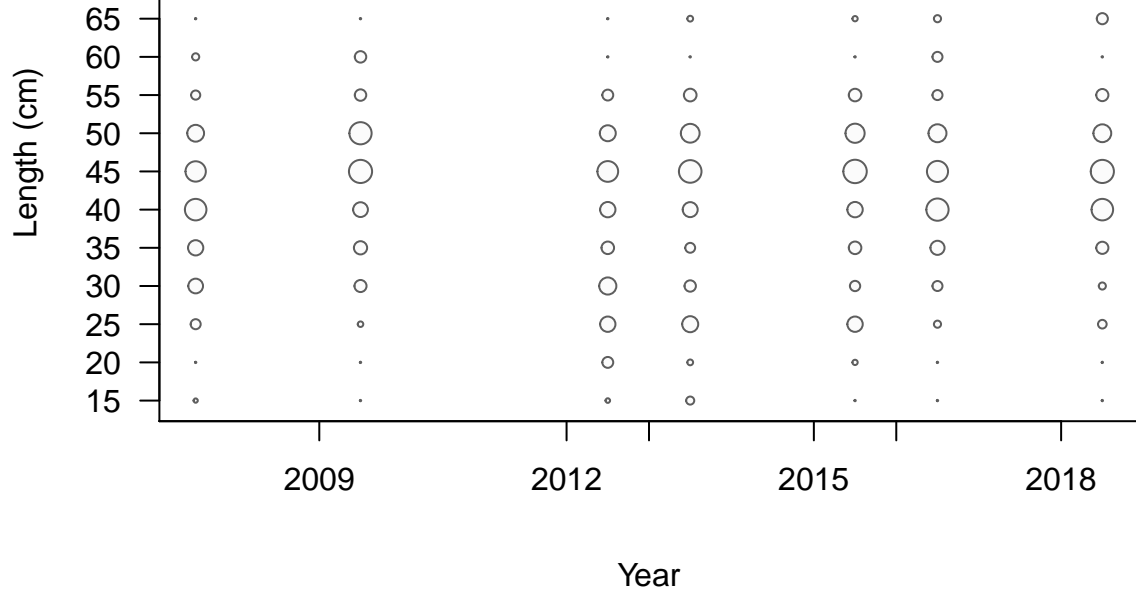






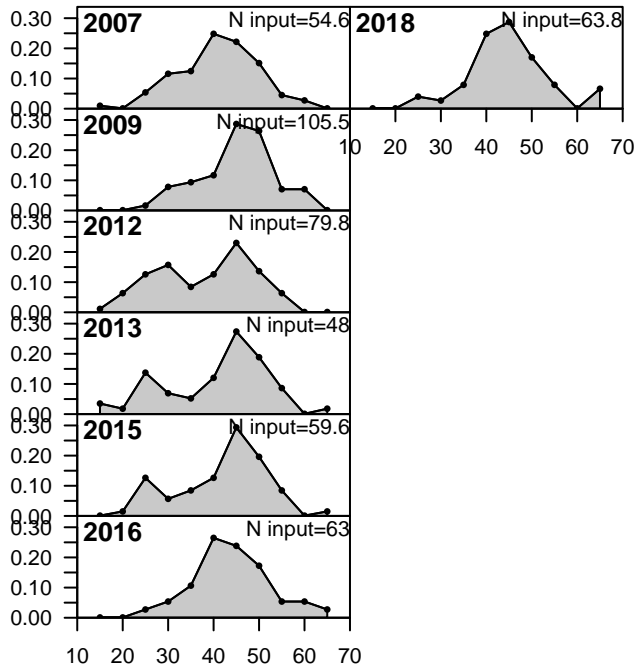
# FISHERY

◦ 0.01 ○ 0.2

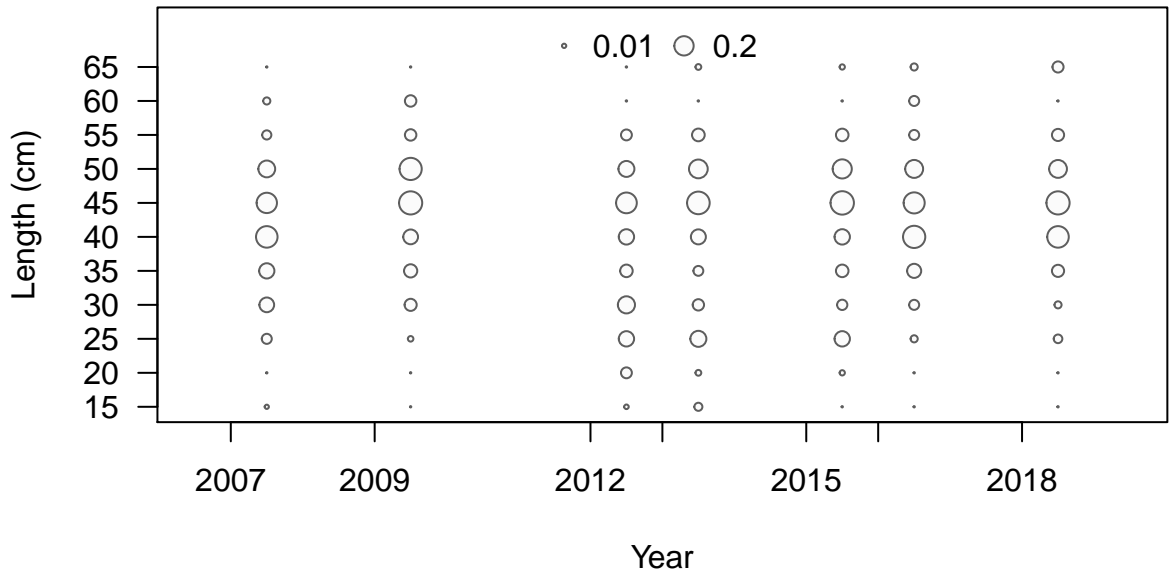




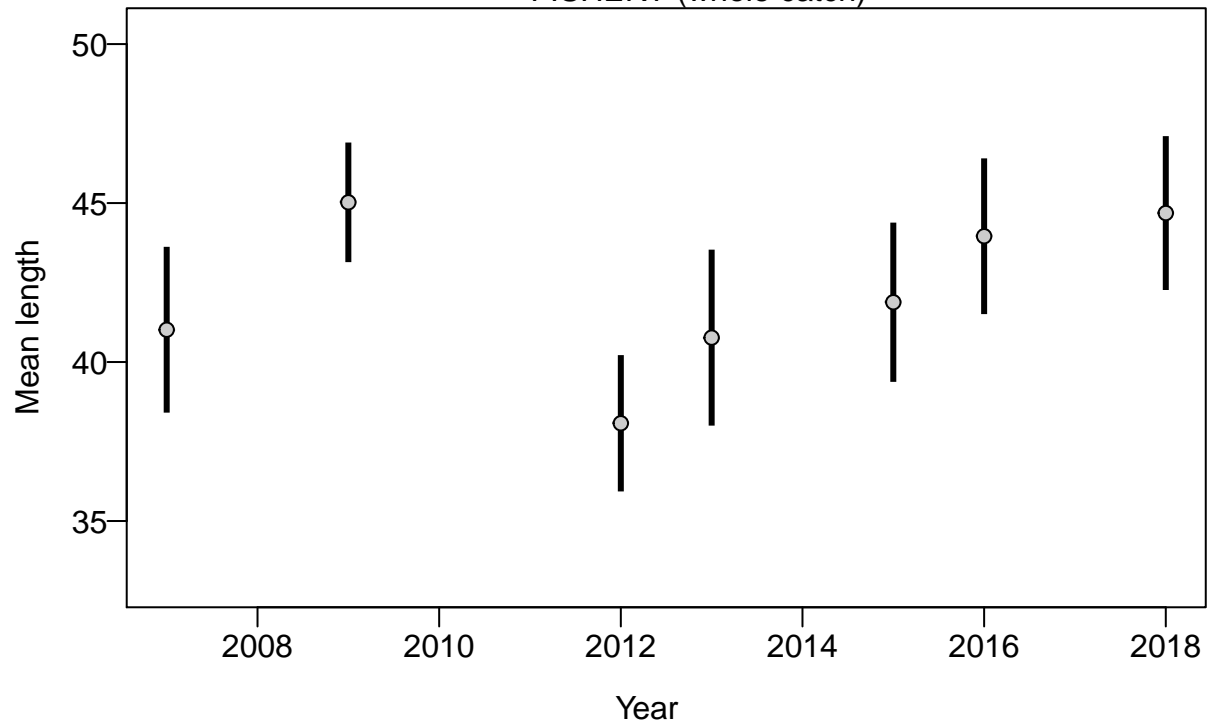
Proportion

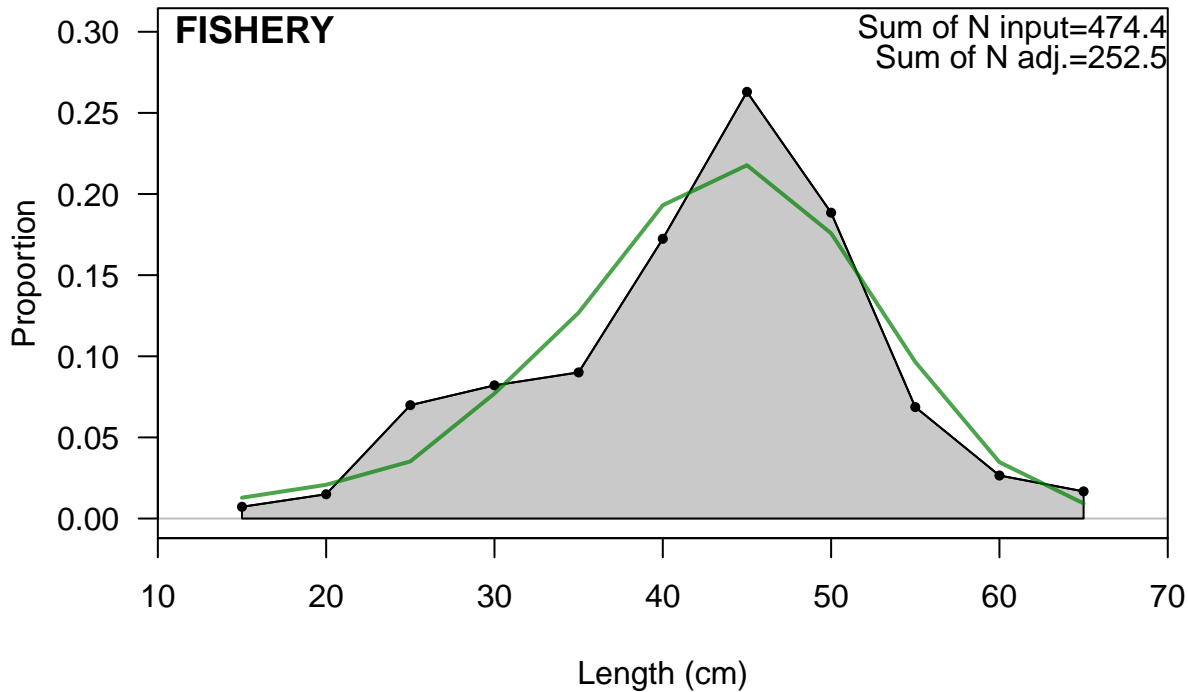


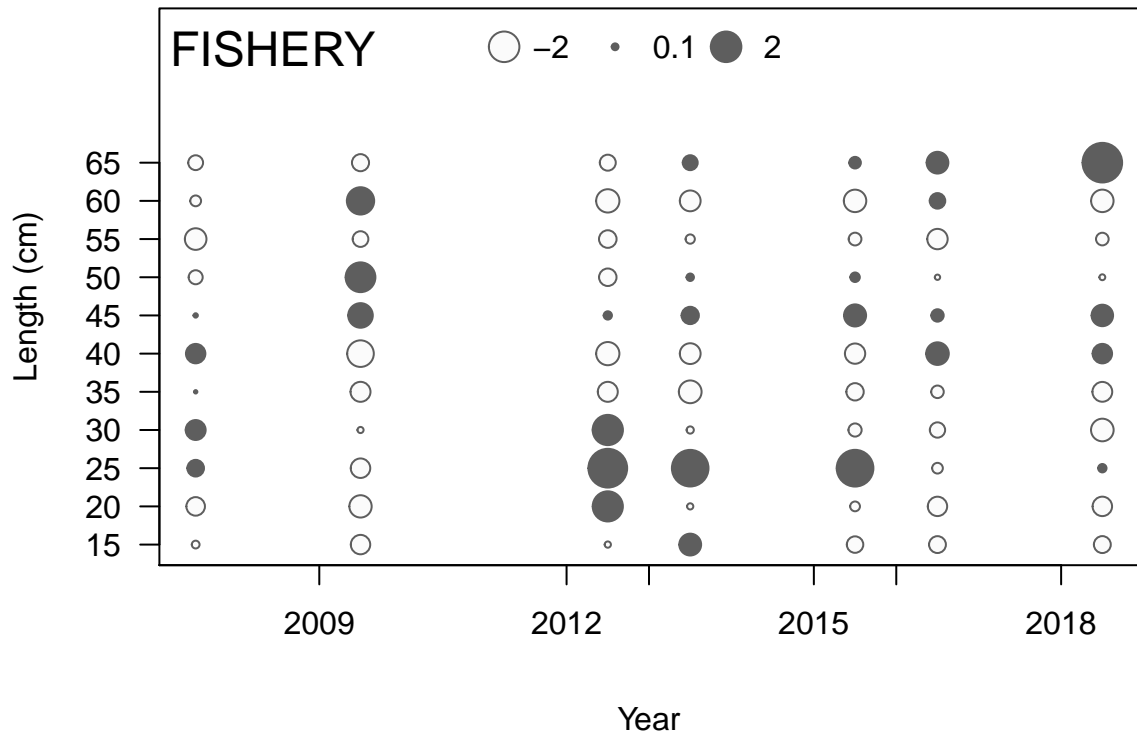
Length (cm)



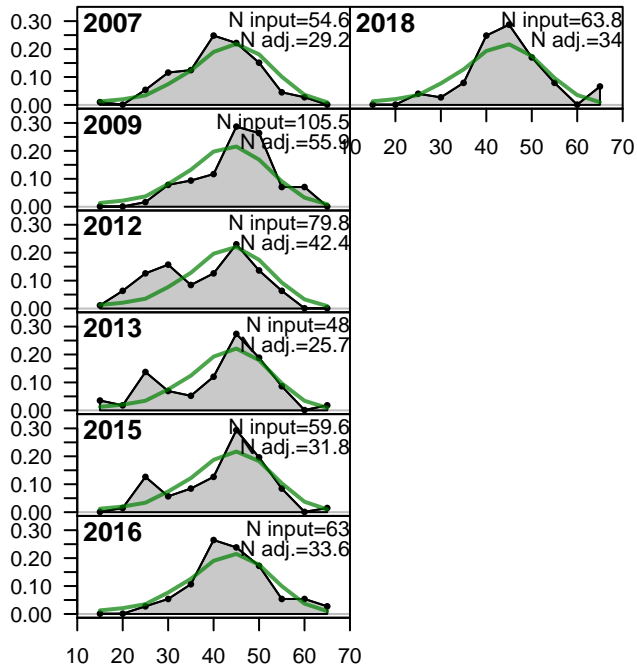
FISHERY (whole catch)



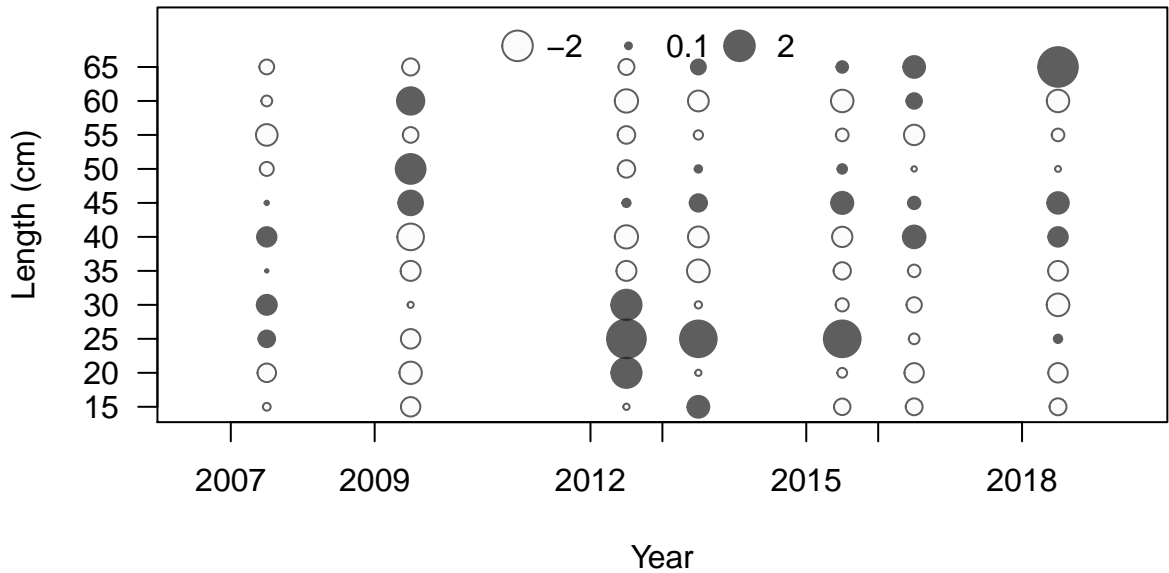




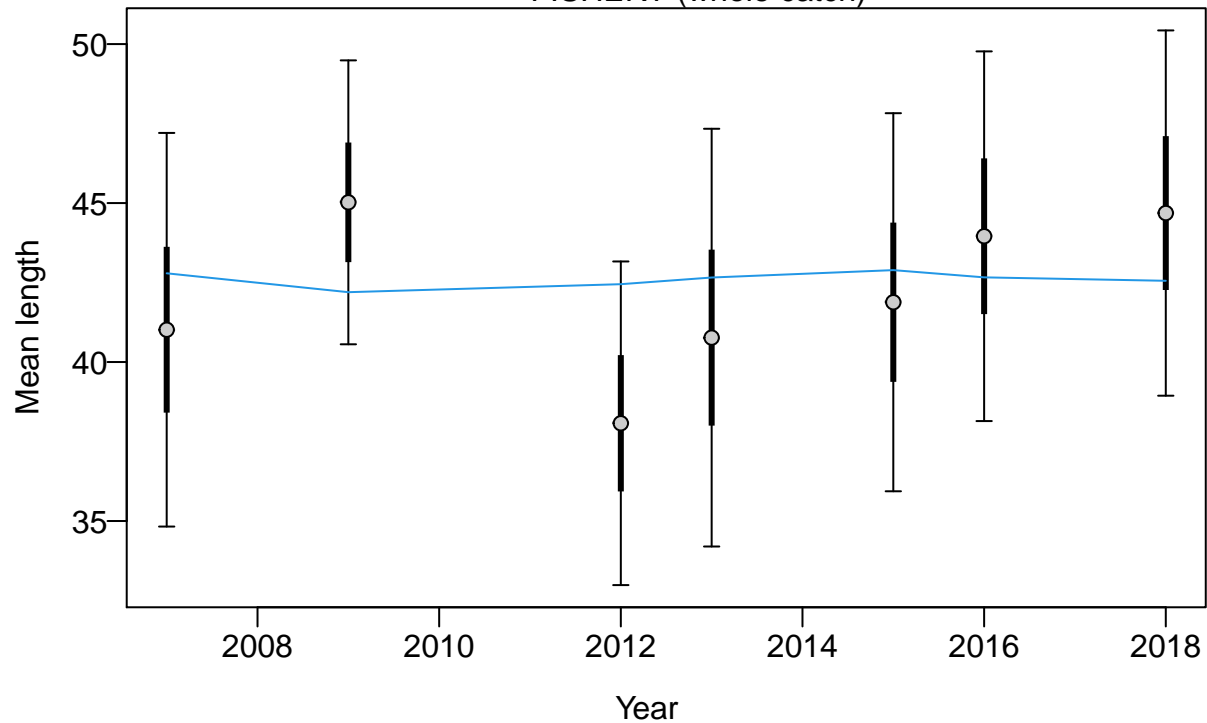
Proportion



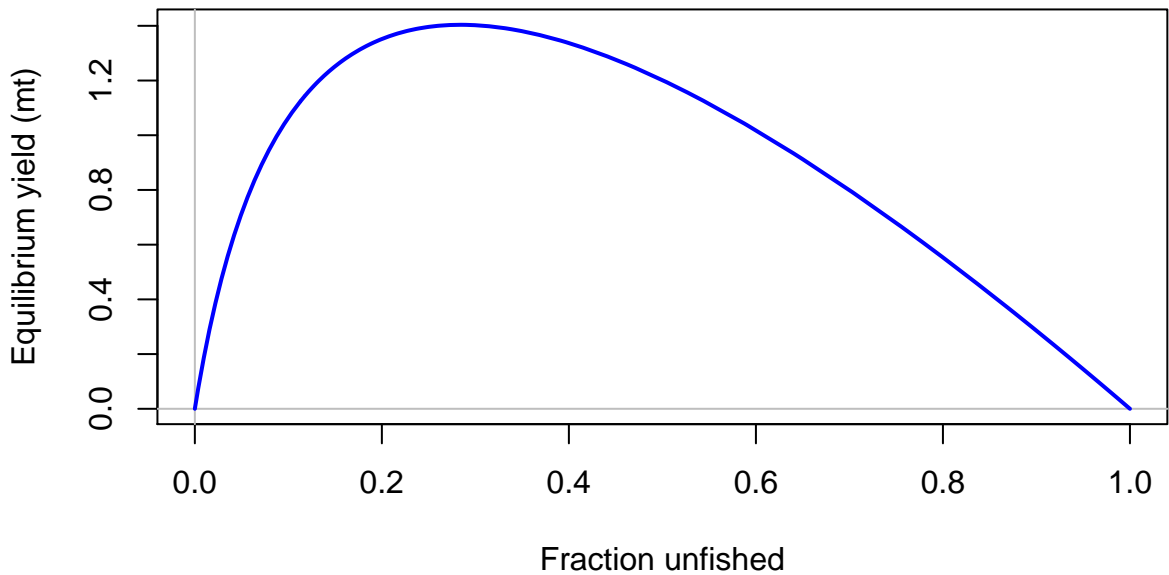
Length (cm)

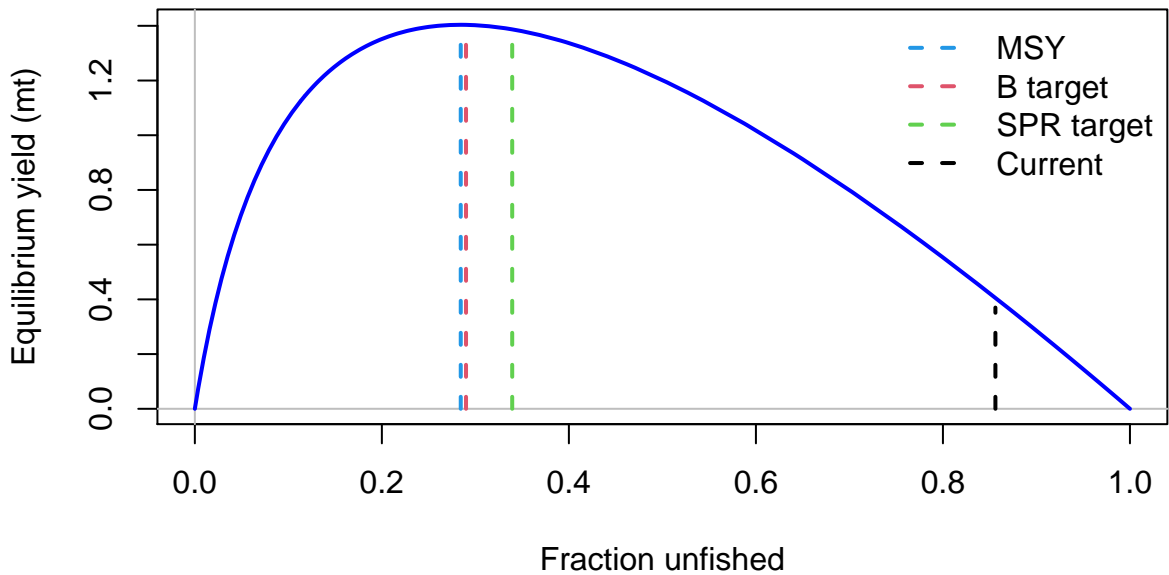


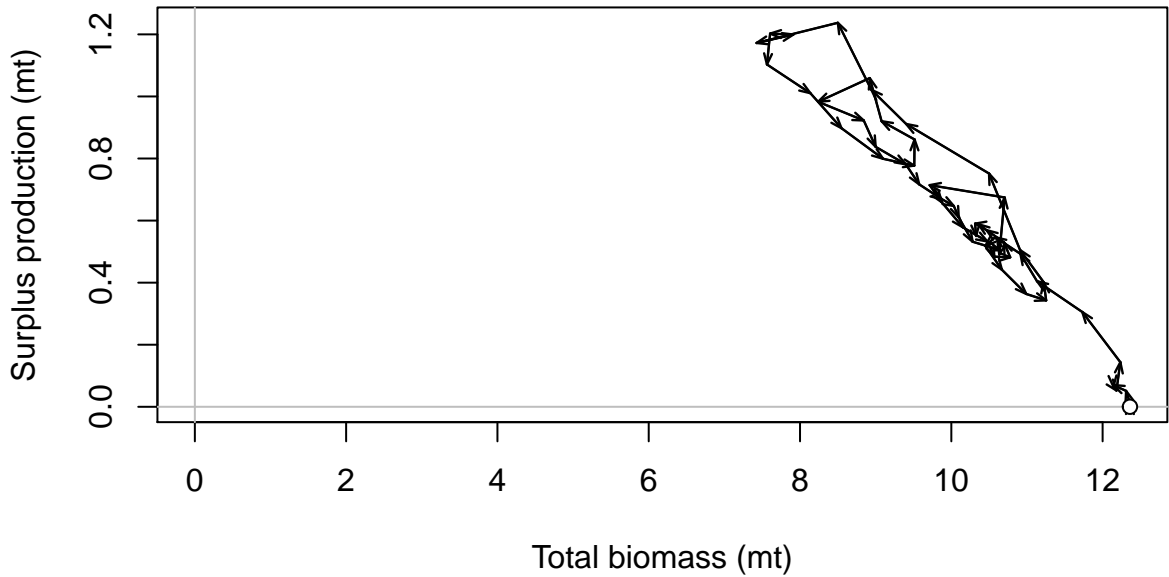
FISHERY (whole catch)

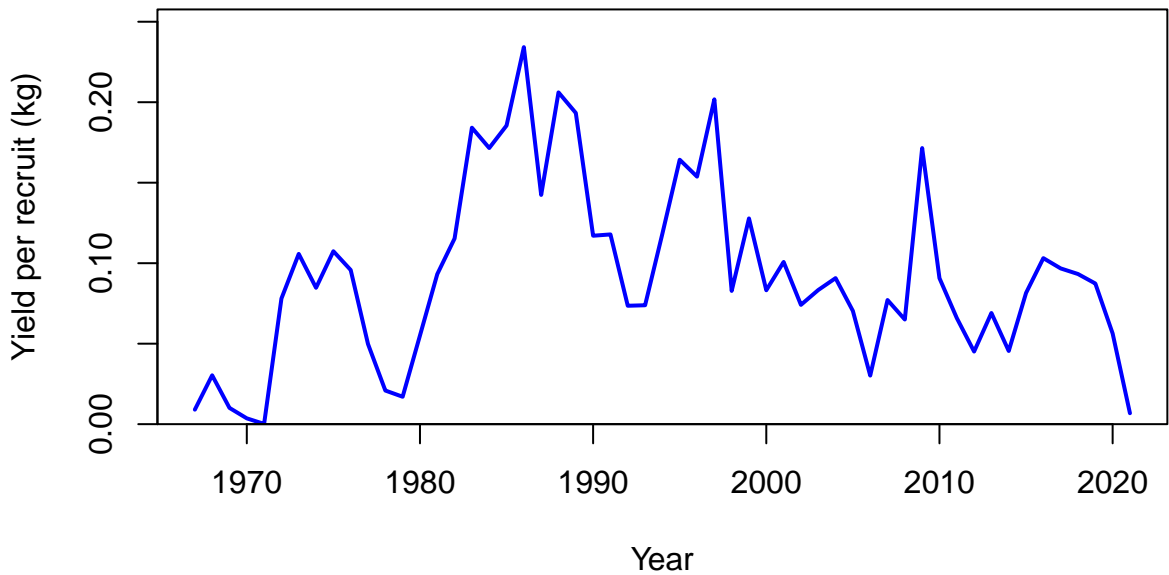


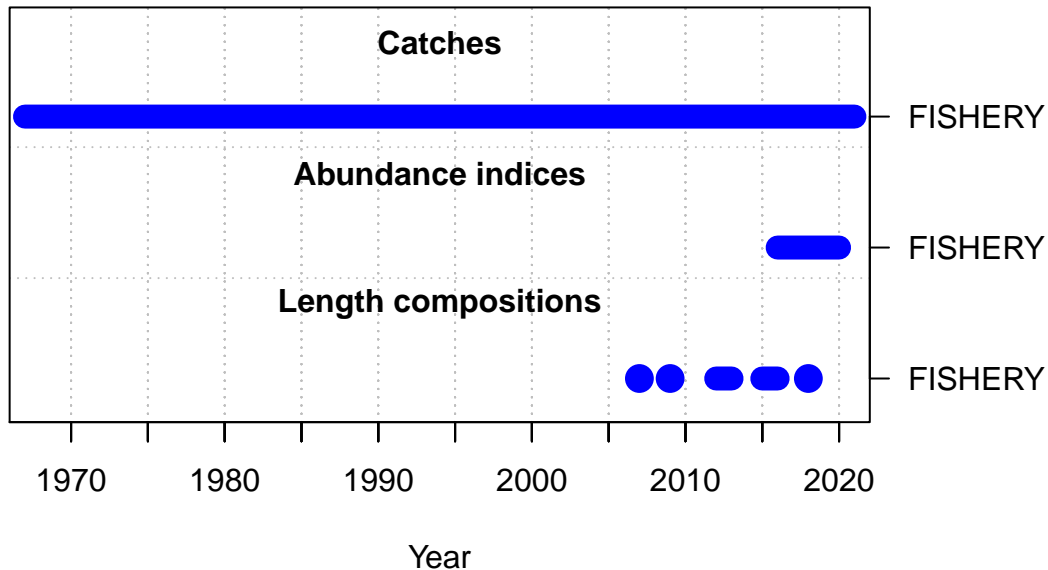


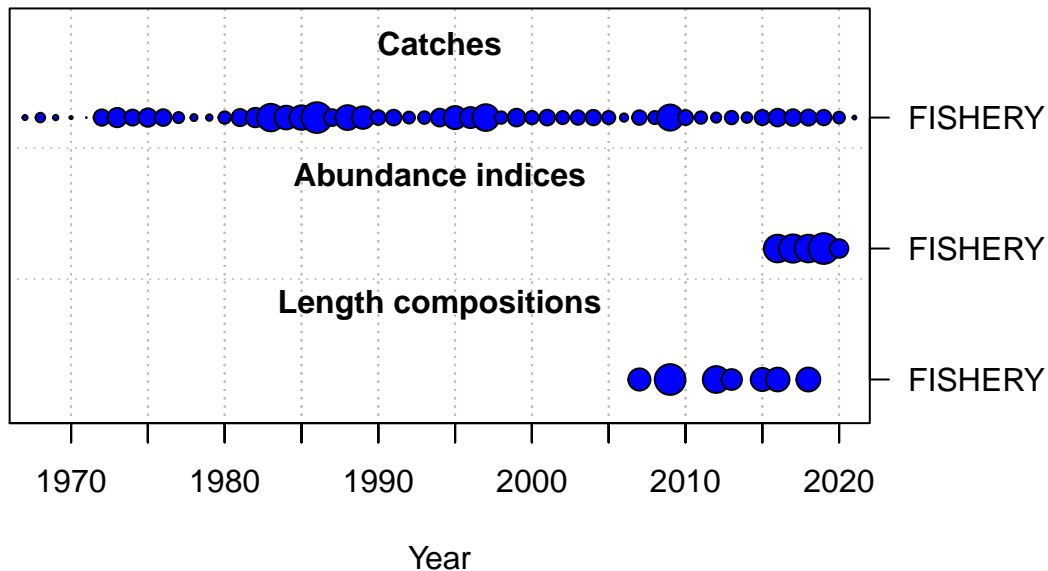




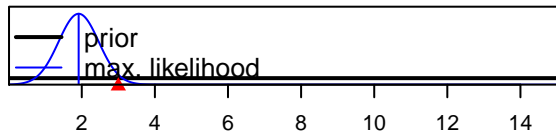




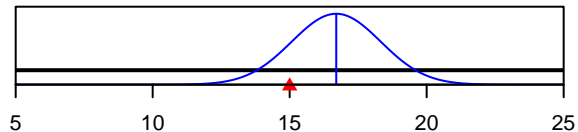




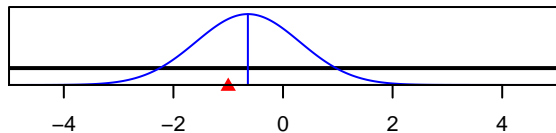
SR\_LN(R0)



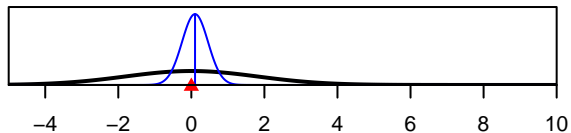
Size\_95%width\_FISHERY(1)



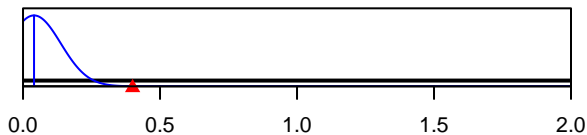
LnQ\_base\_FISHERY(1)



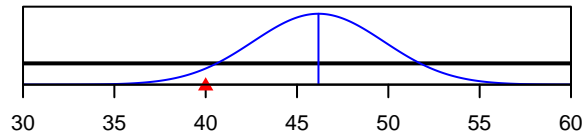
ln(DM\_theta)\_1



Q\_extraSD\_FISHERY(1)



Size\_inflection\_FISHERY(1)



Parameter value