

Plots created using the 'r4ss' package in R

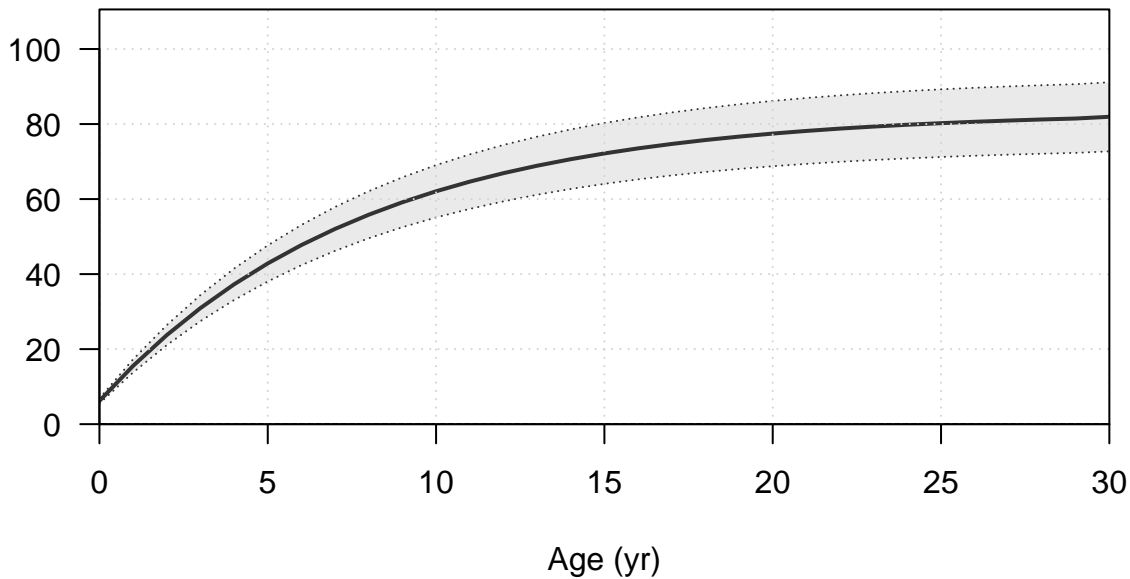
Stock Synthesis version: 3.30.19.0

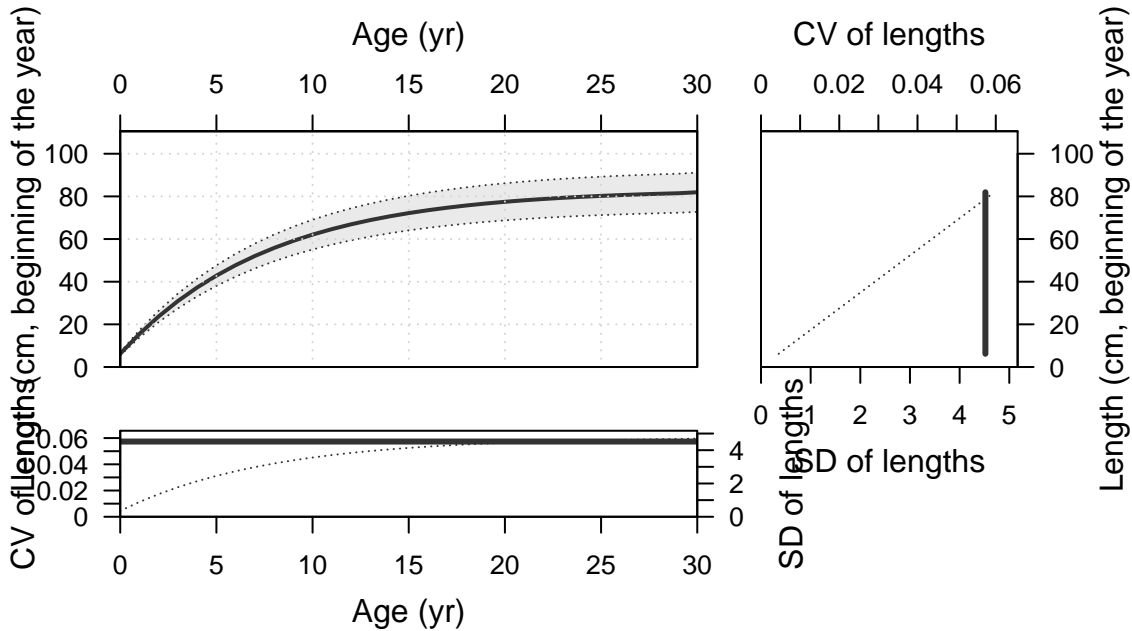
StartTime: Mon Jan 09 16:13:02 2023

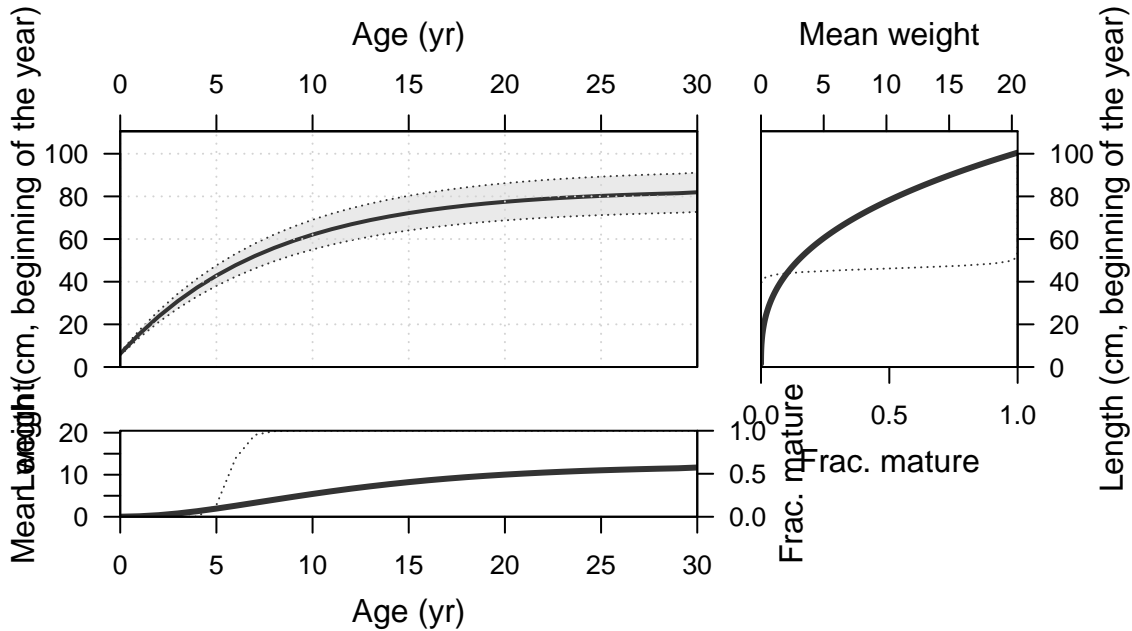
Data\_File: data.ss

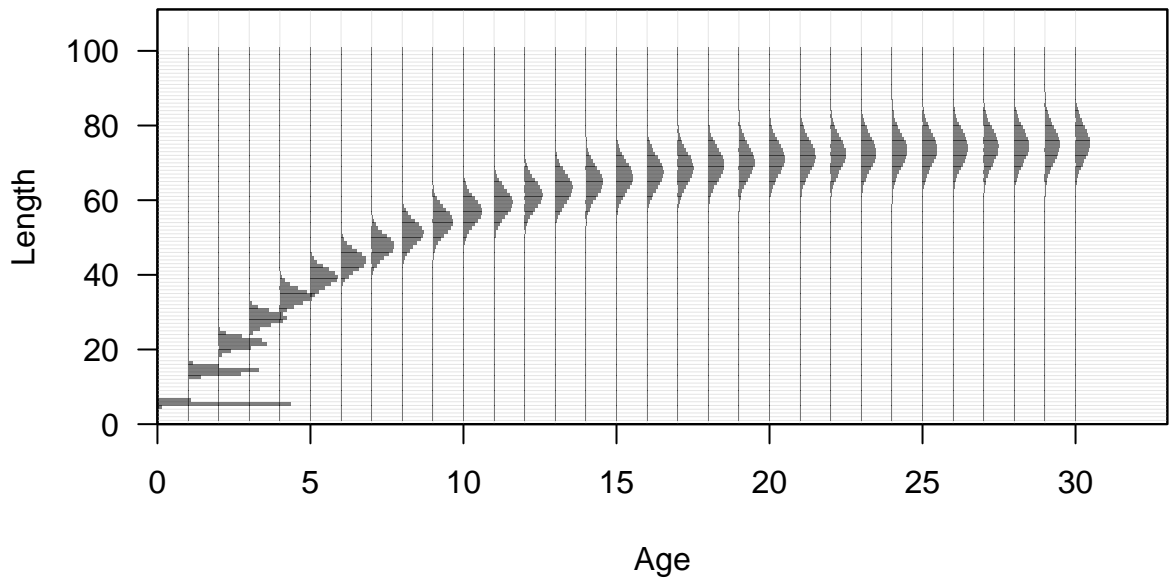
Control\_File: control.ss

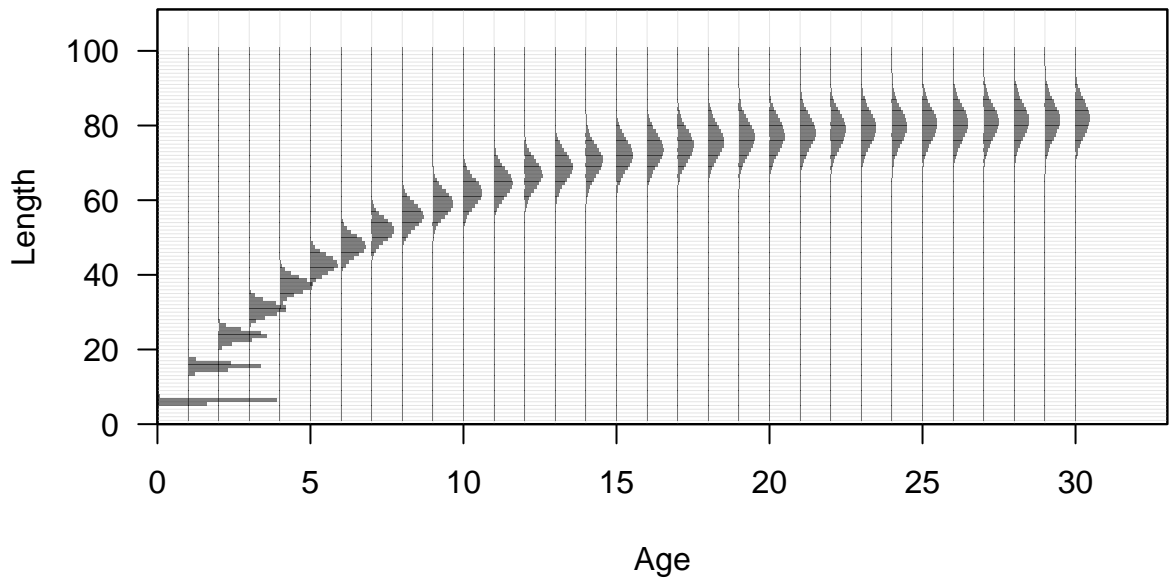
Length (cm, beginning of the year)

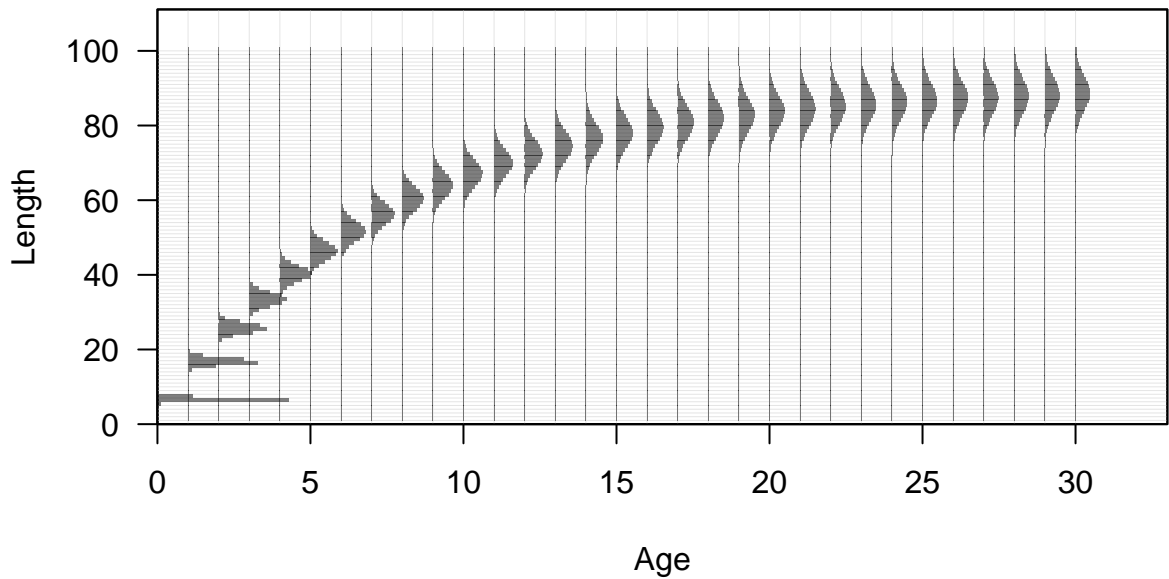


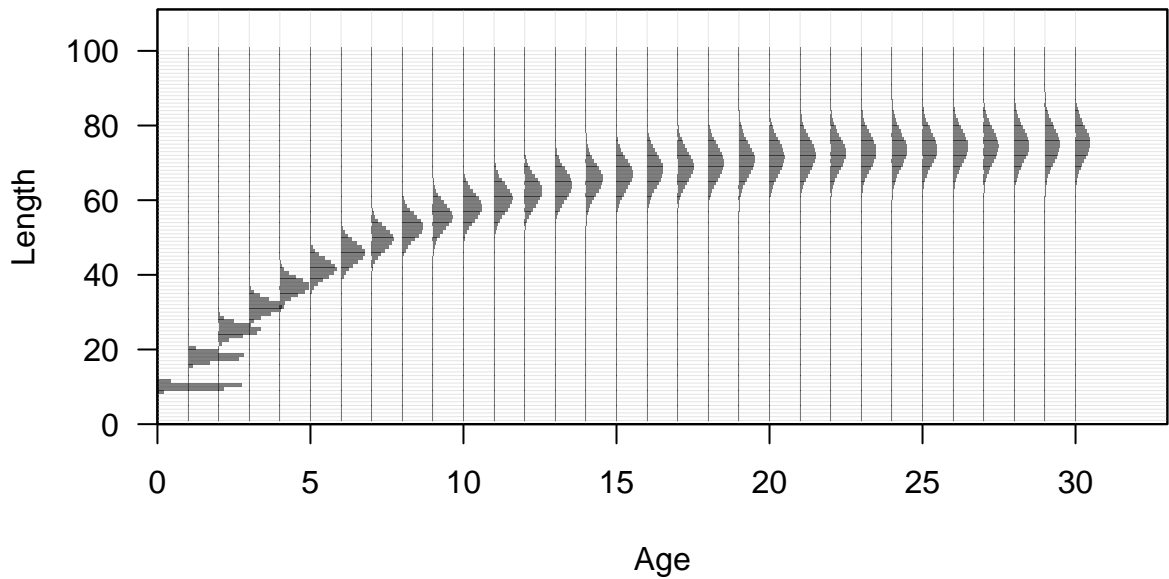




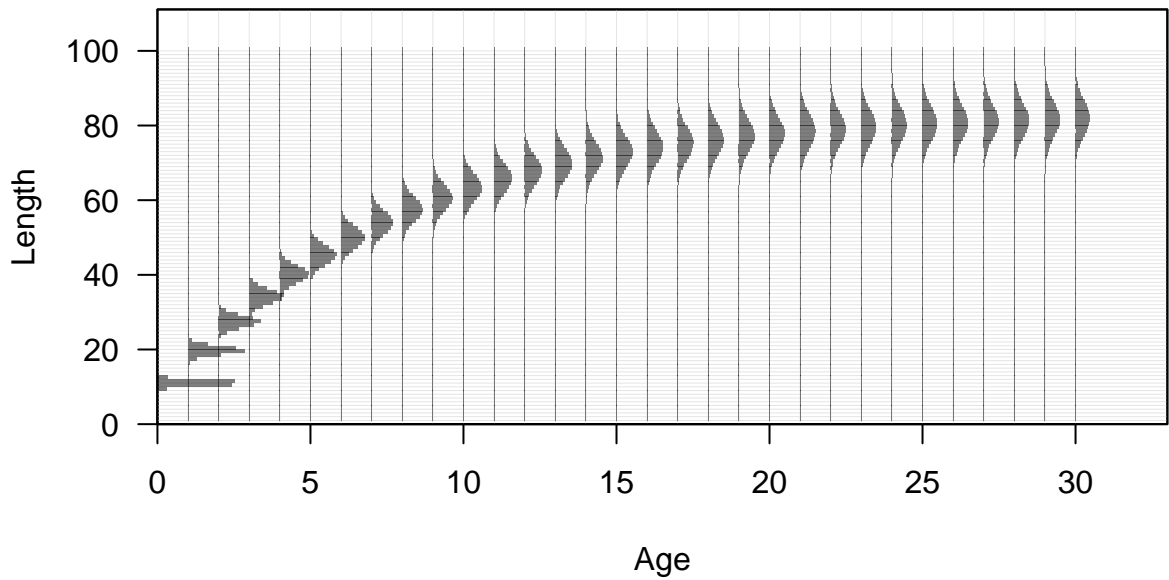


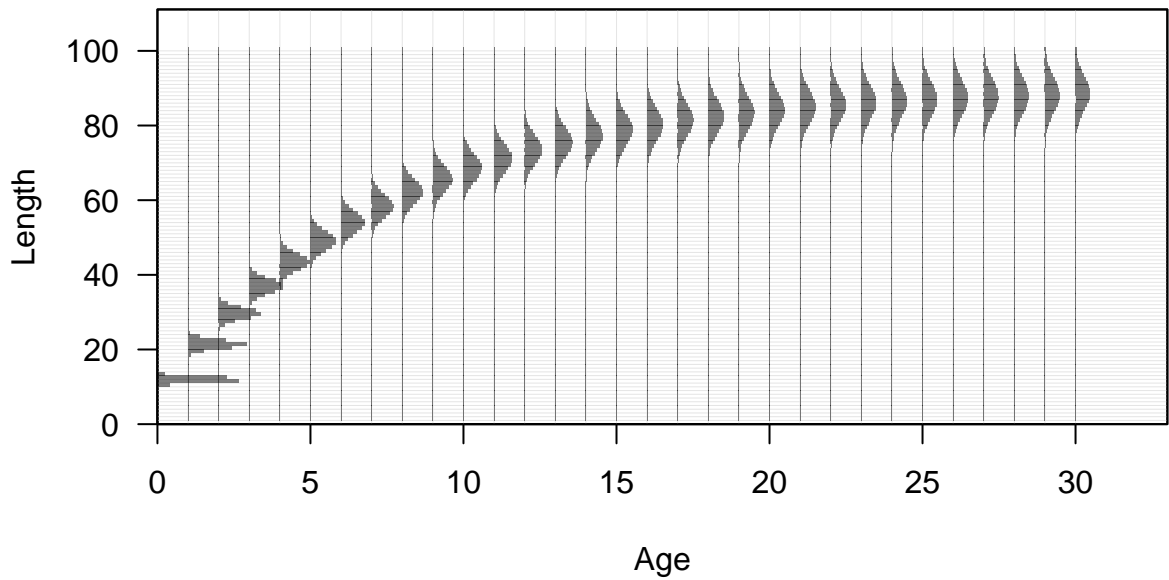




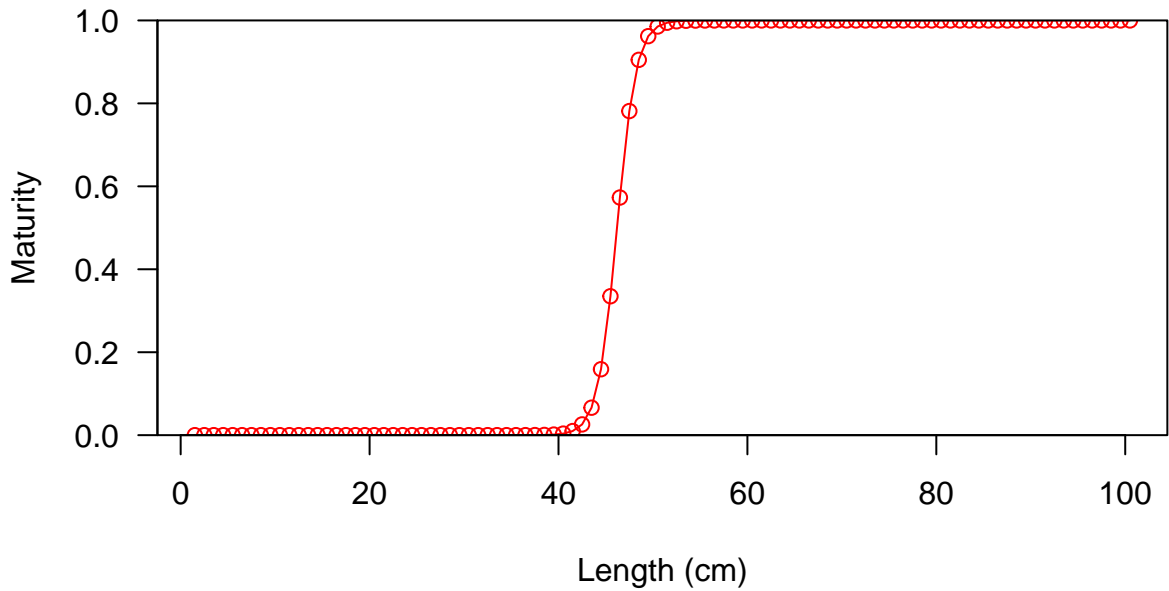


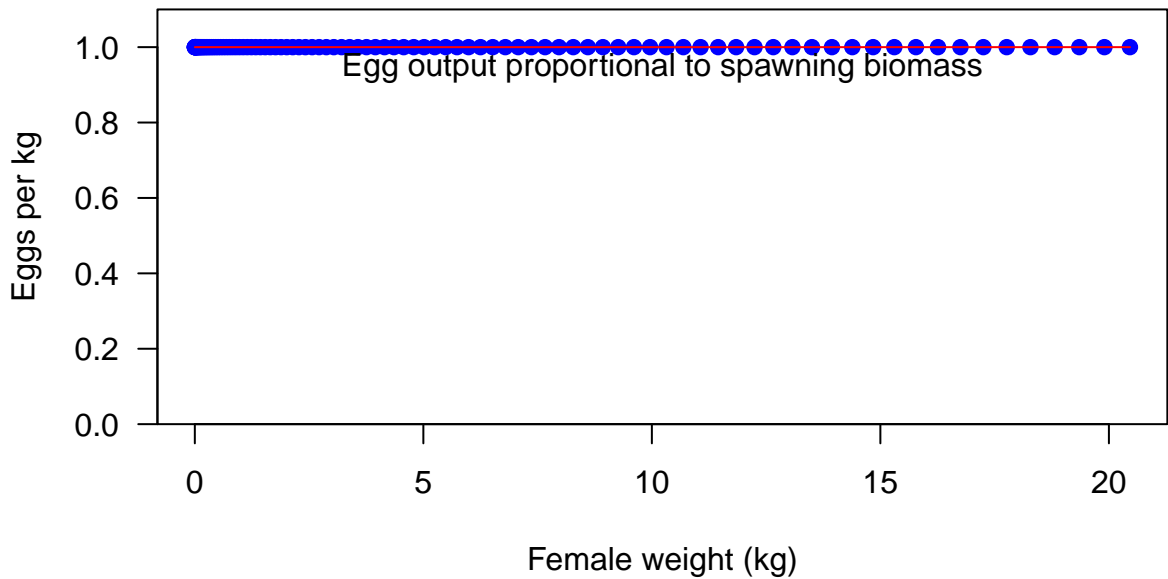




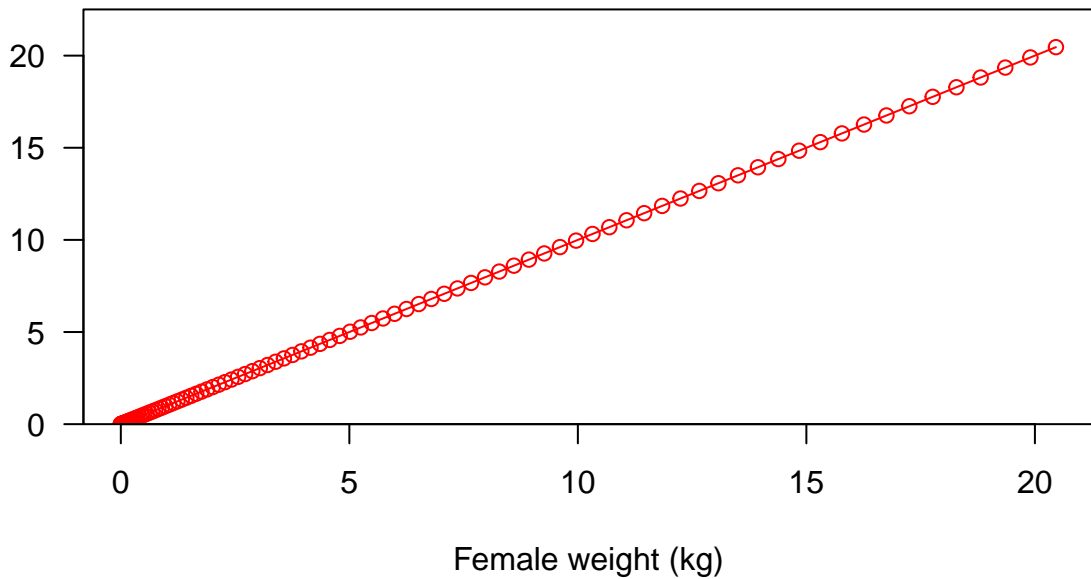








Fecundity



Fecundity

20

15

10

5

0

0

20

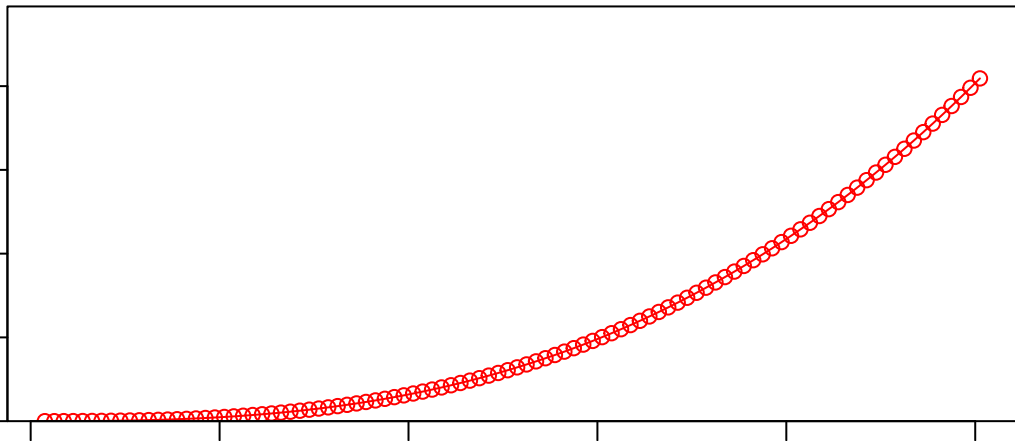
40

60

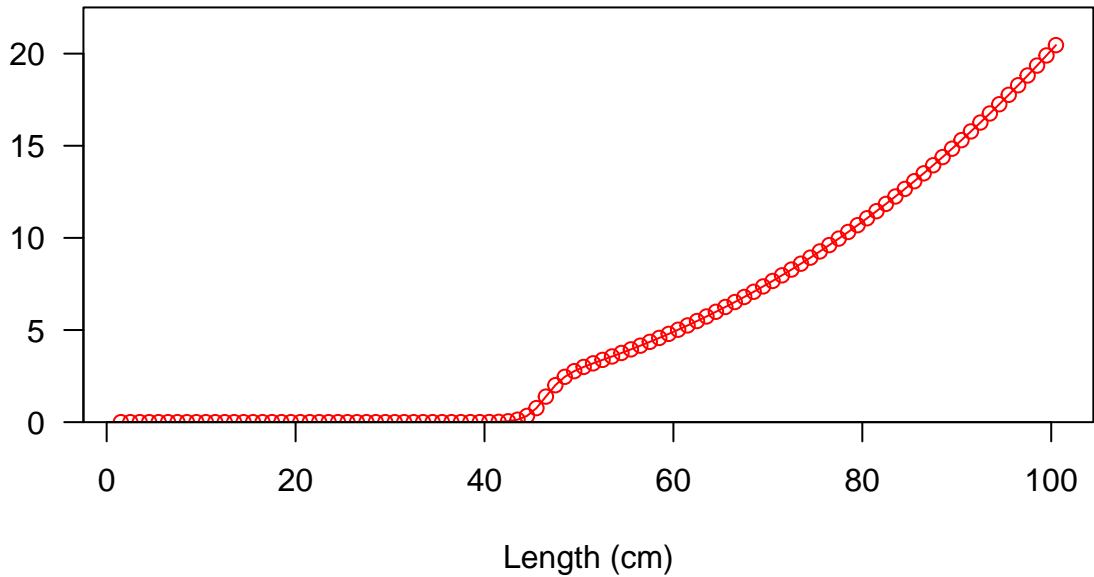
80

100

Female length (cm)

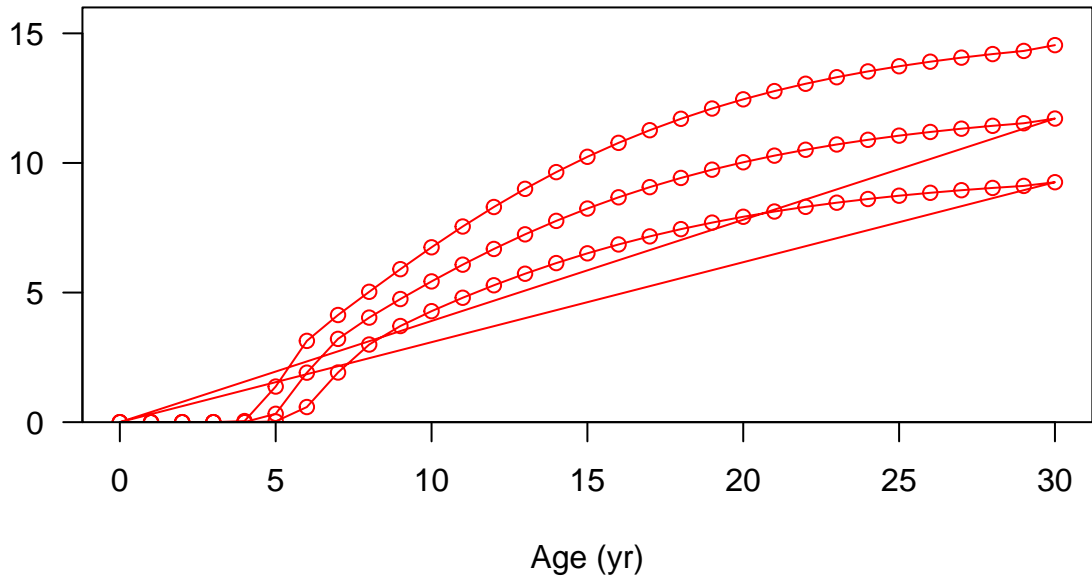


Spawning output

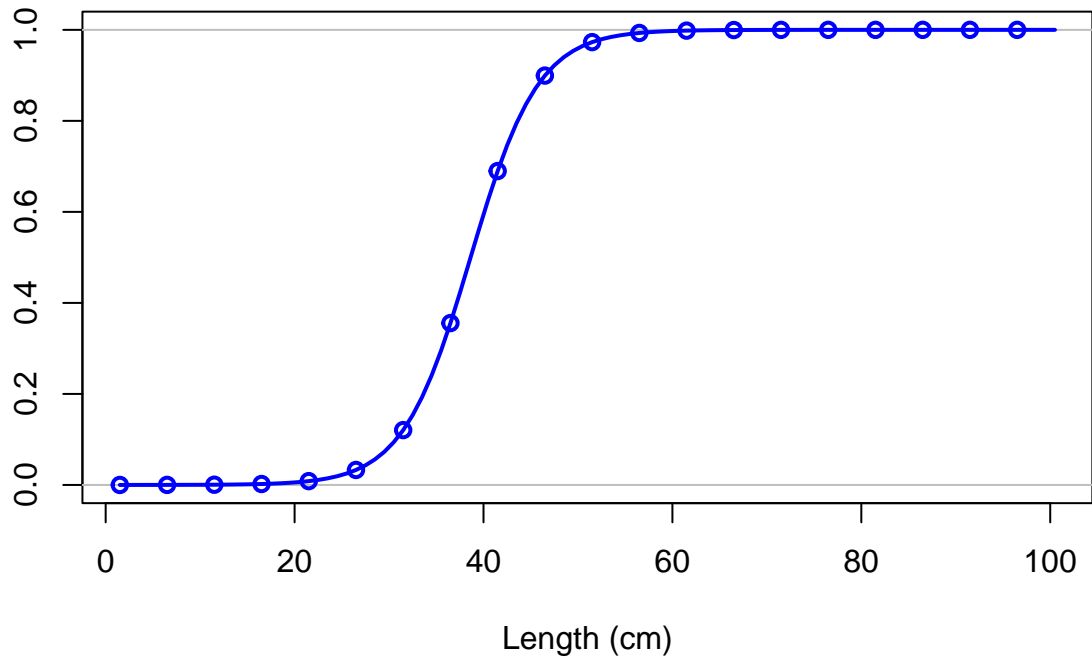




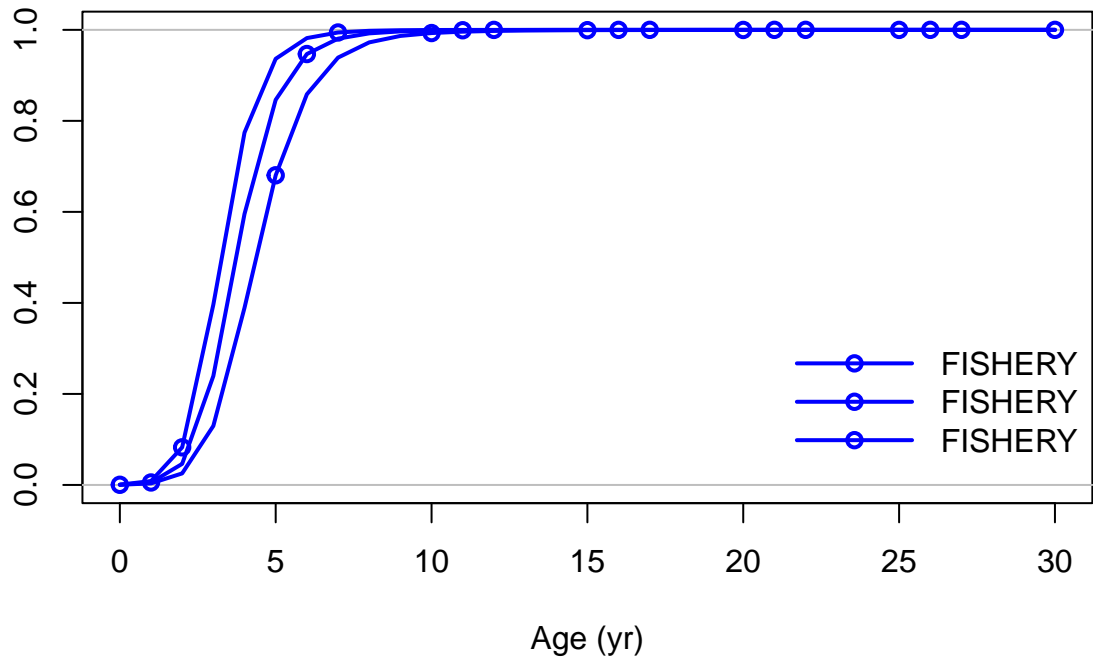
Spawning output



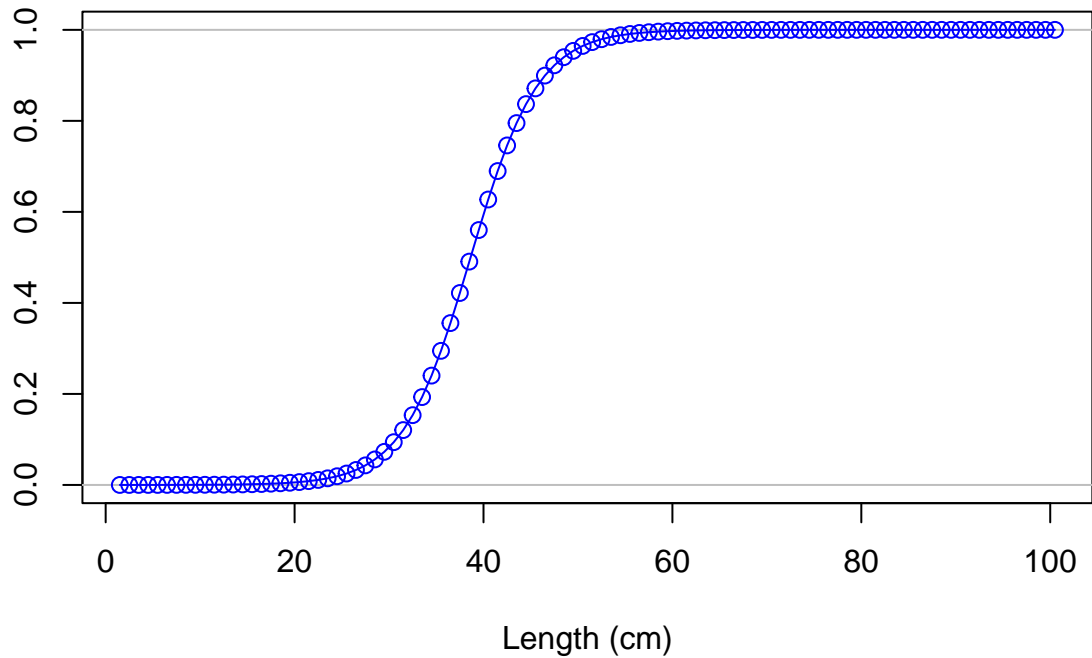
Selectivity

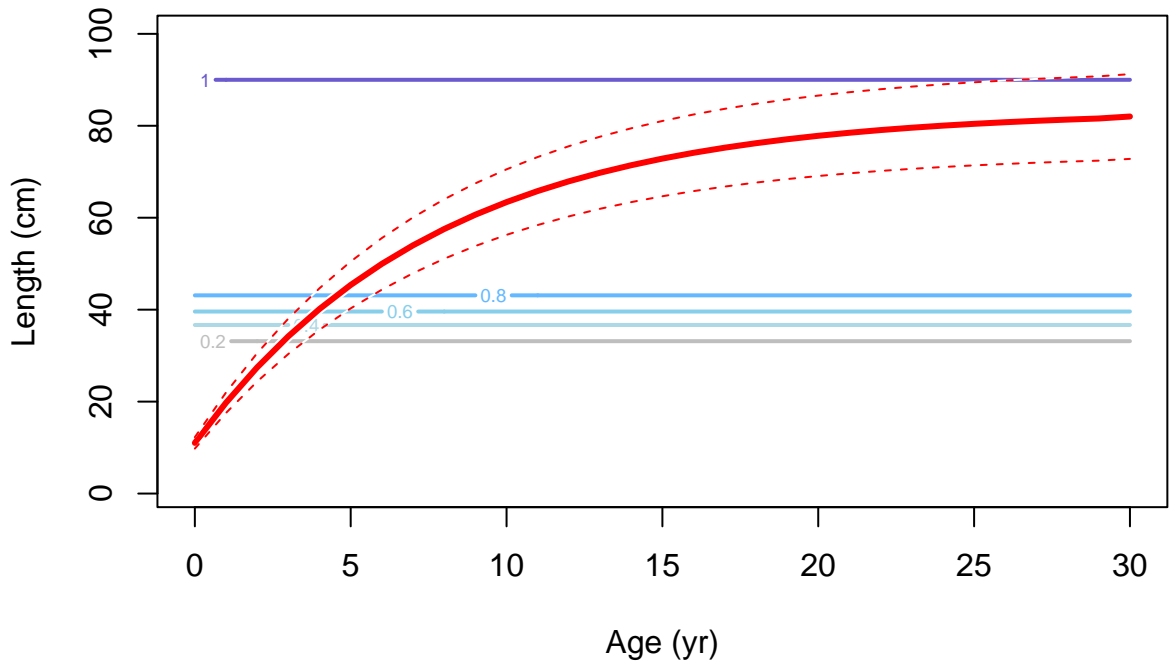


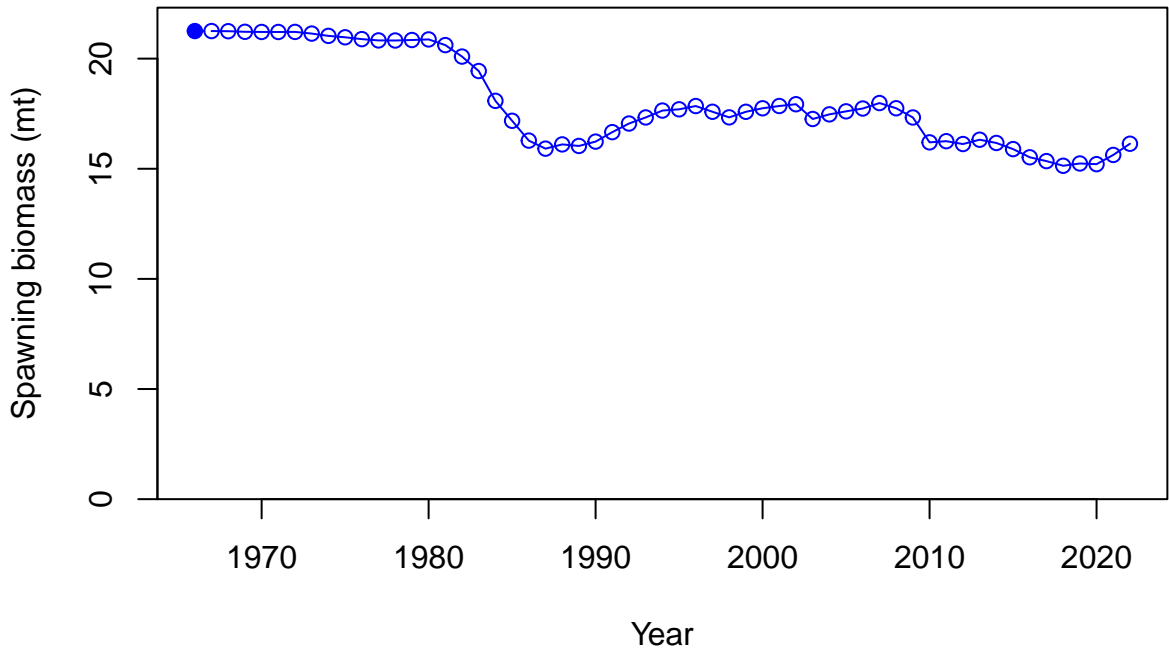
Selectivity

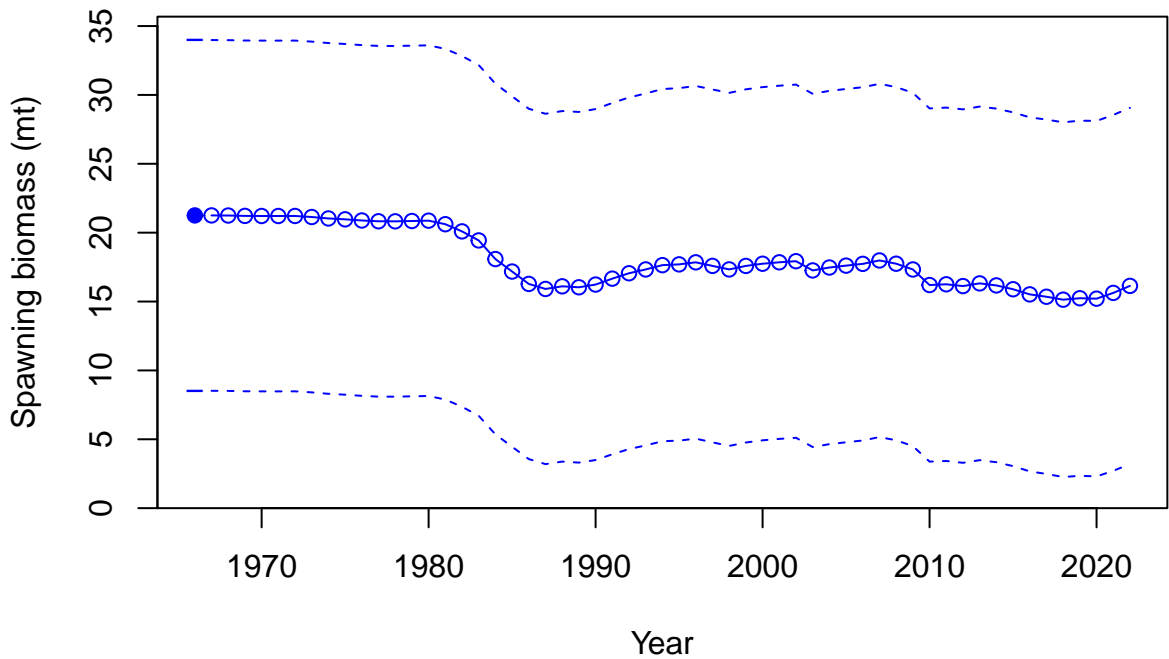


Selectivity

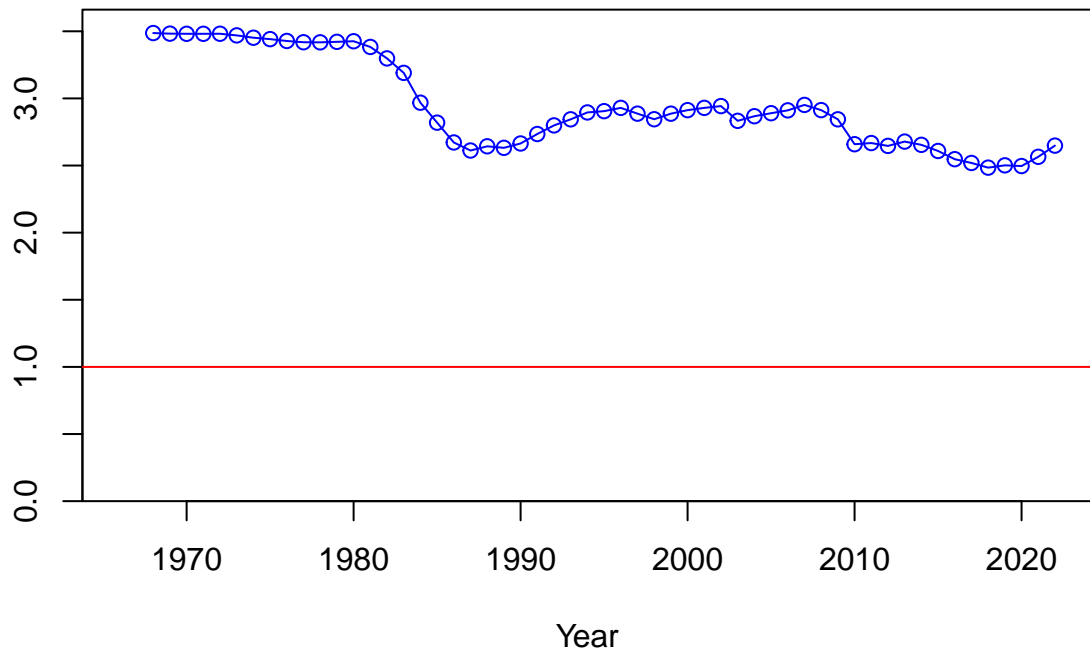






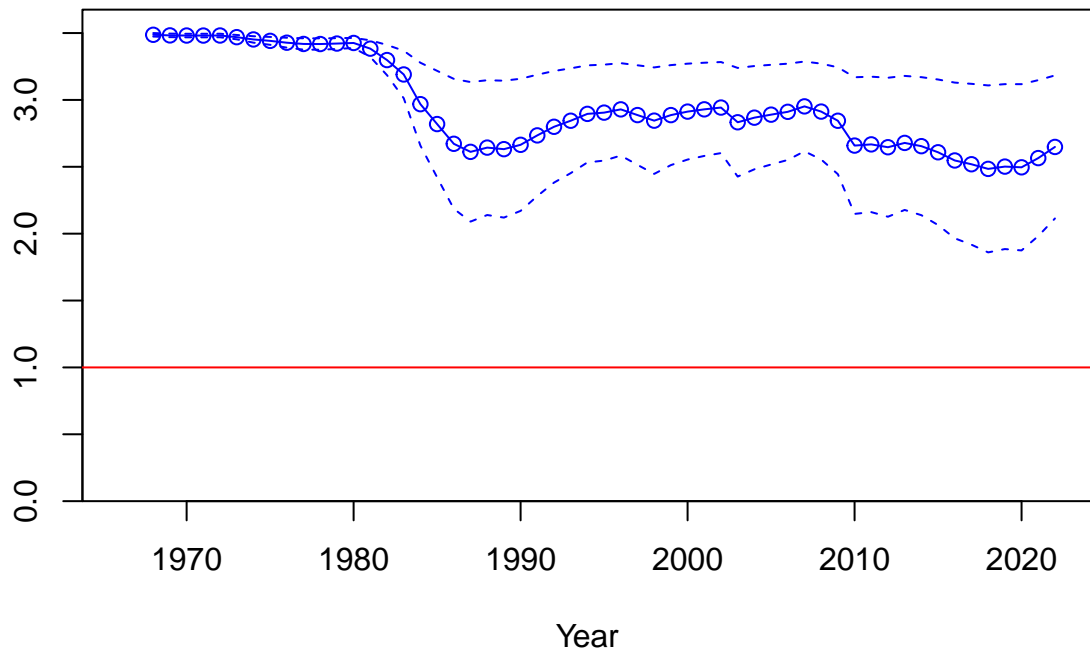


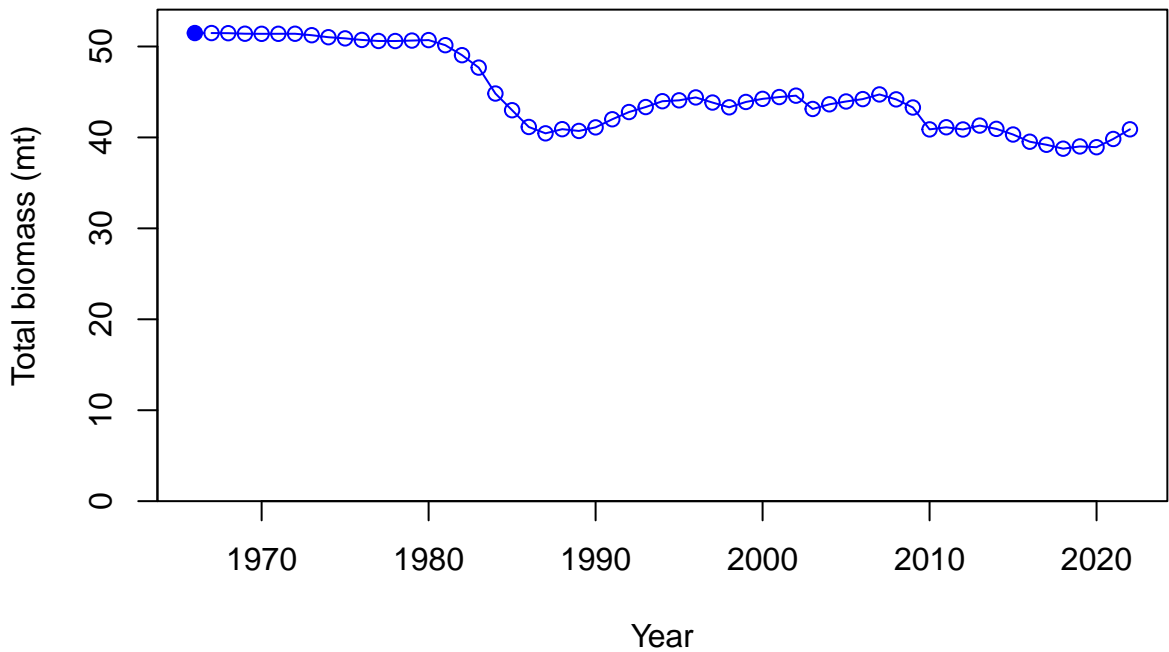
Relative spawning biomass:  $B/B_{MSY}$

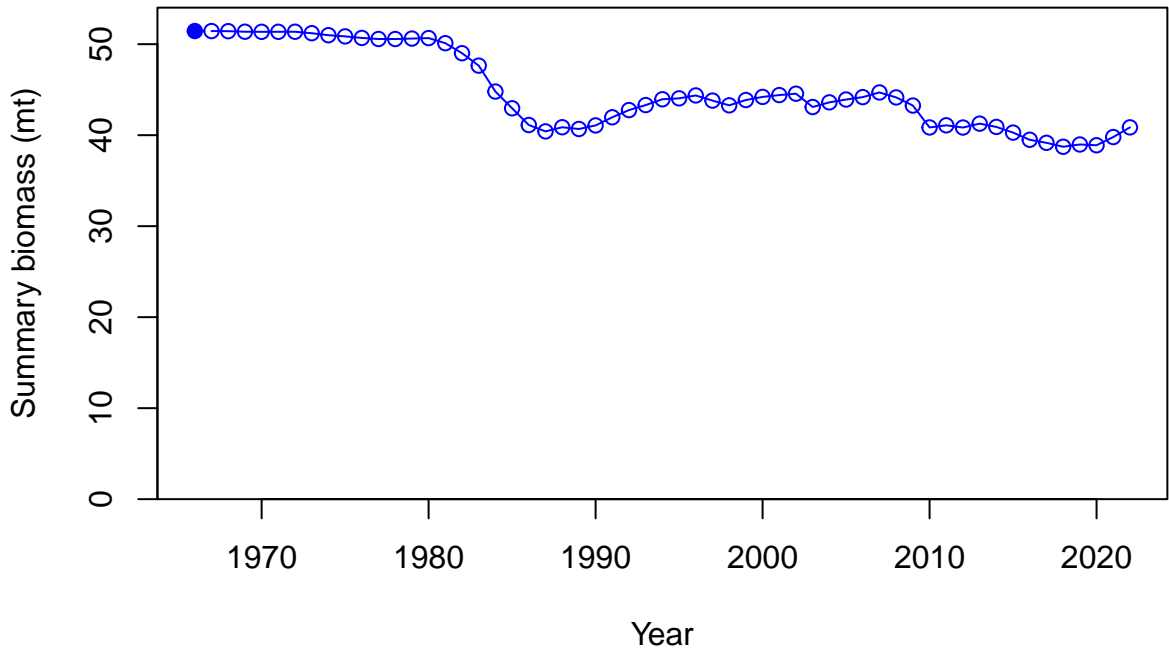




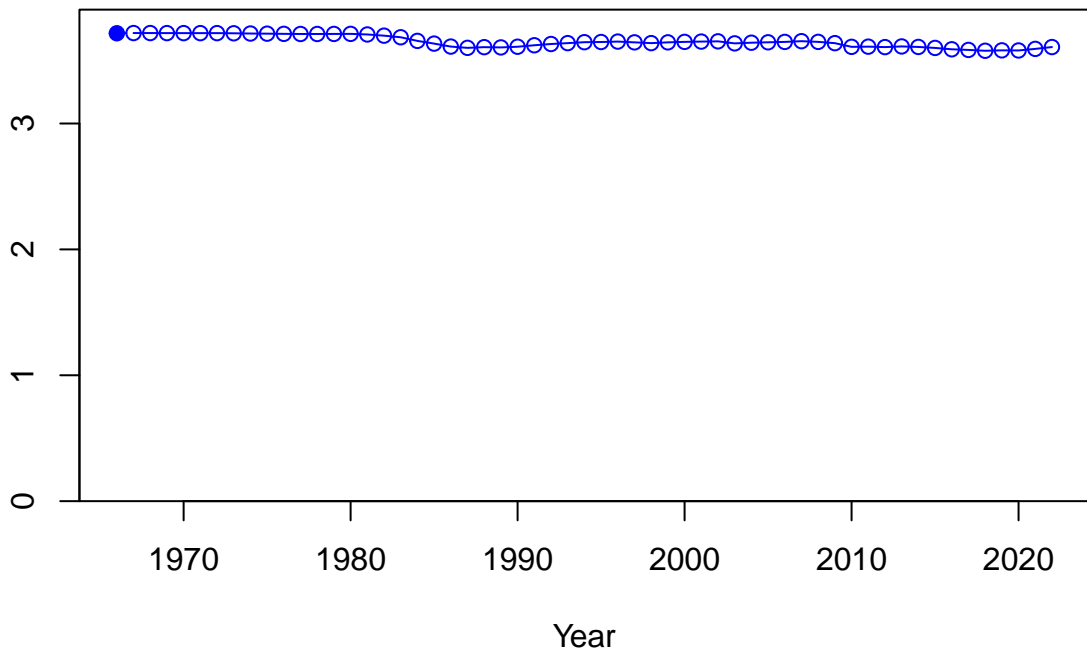
Relative spawning biomass:  $B/B_{MSY}$

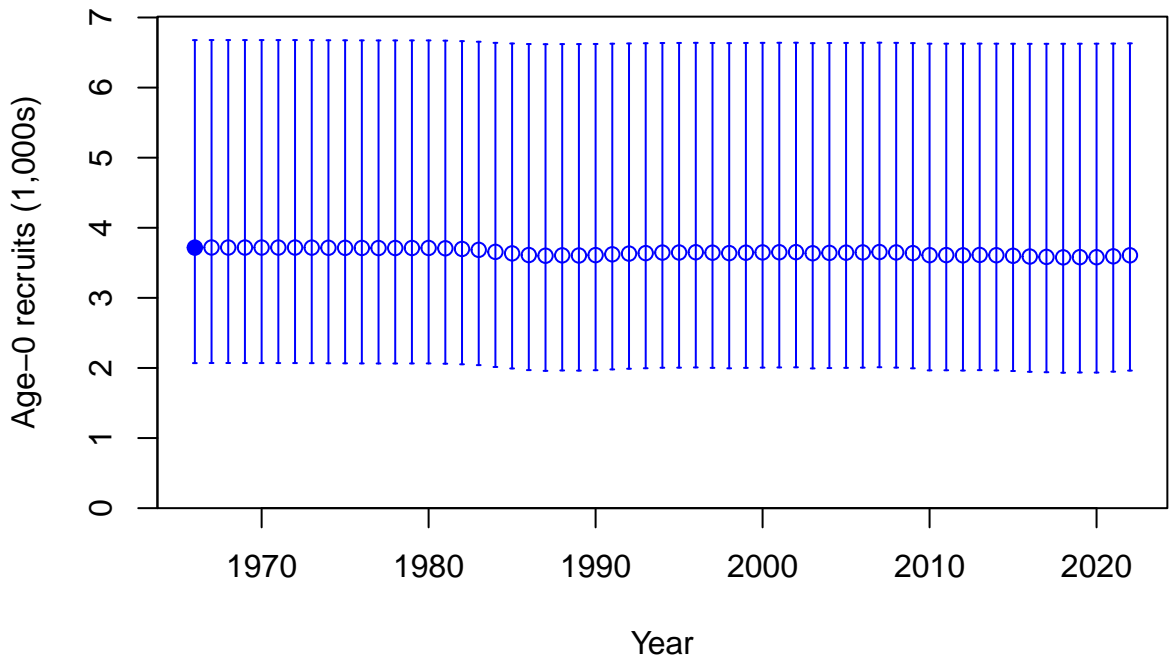




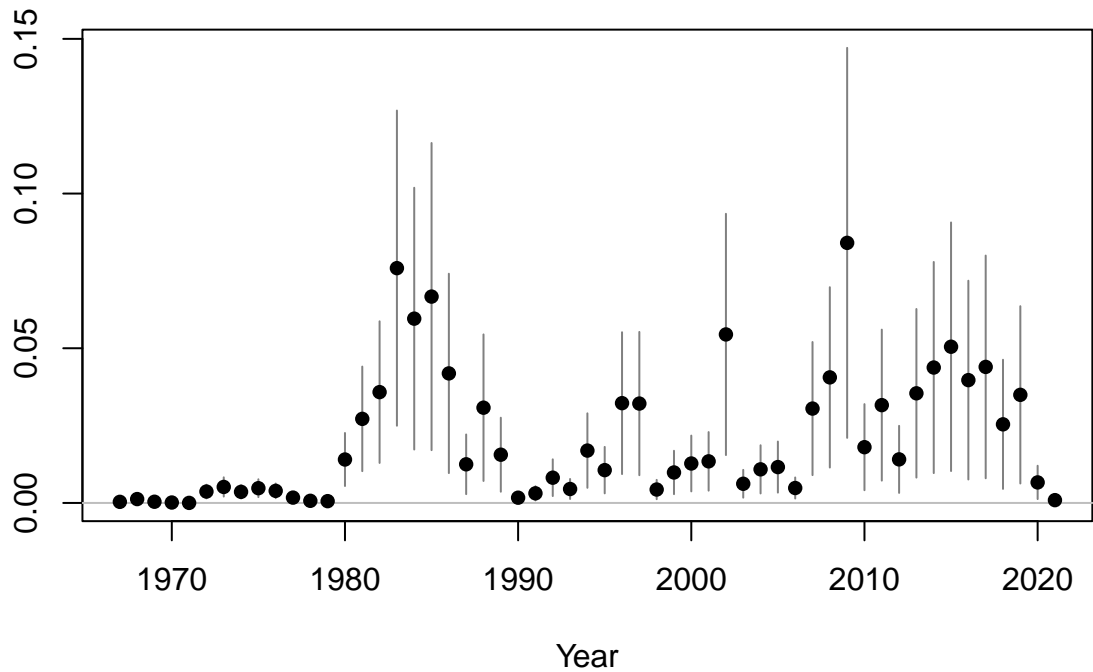


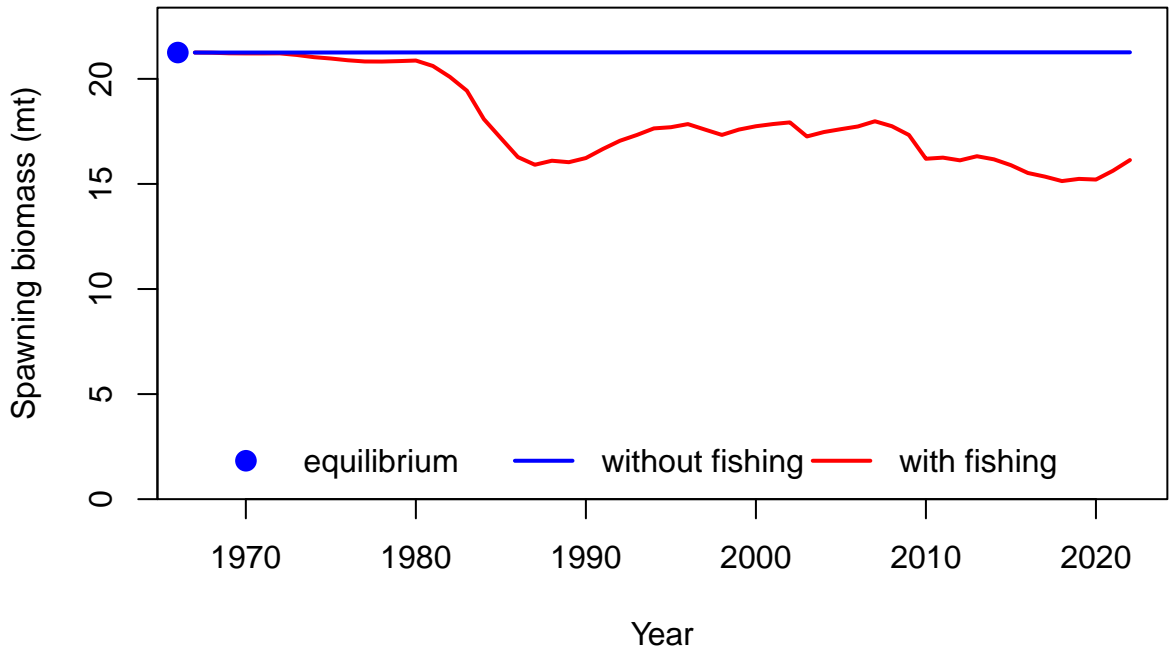
Age-0 recruits (1,000s)

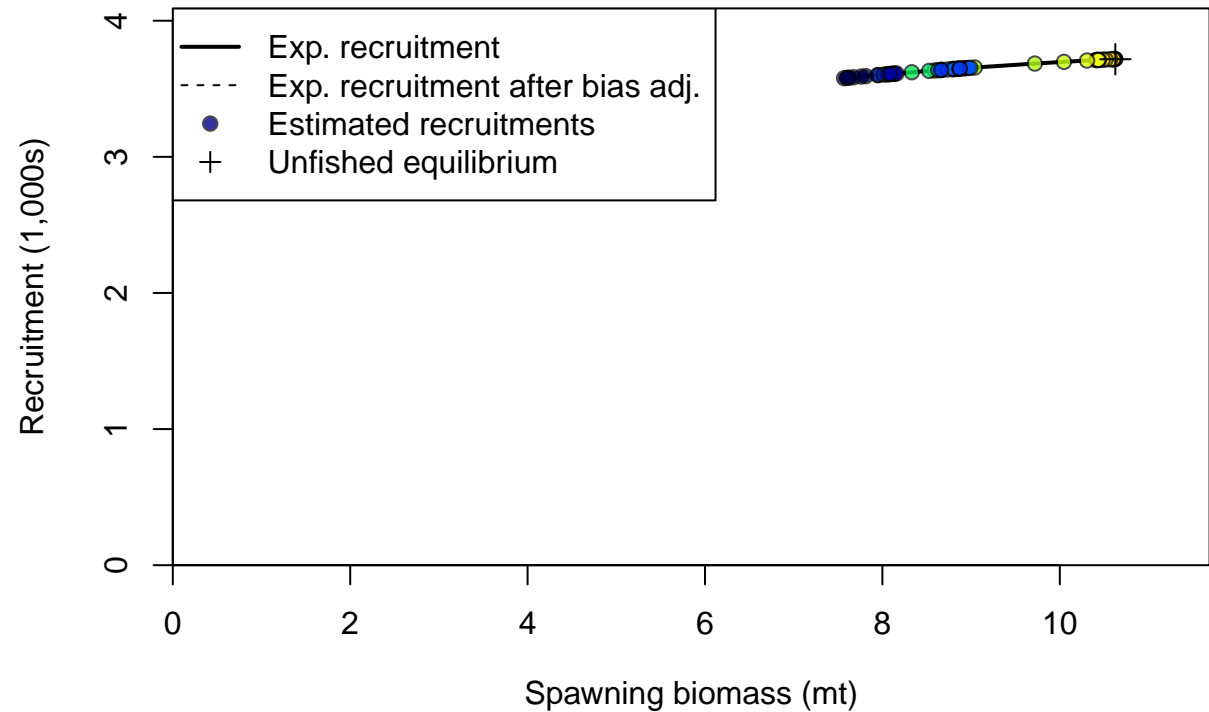




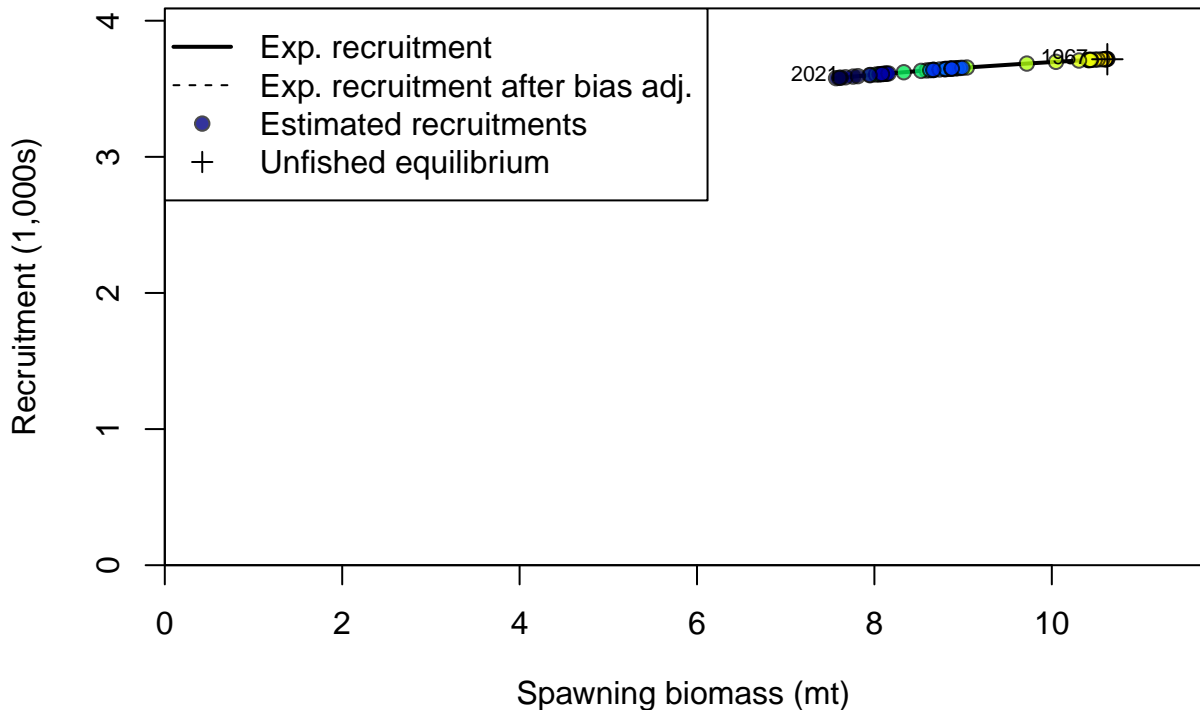
Summary Fishing Mortality

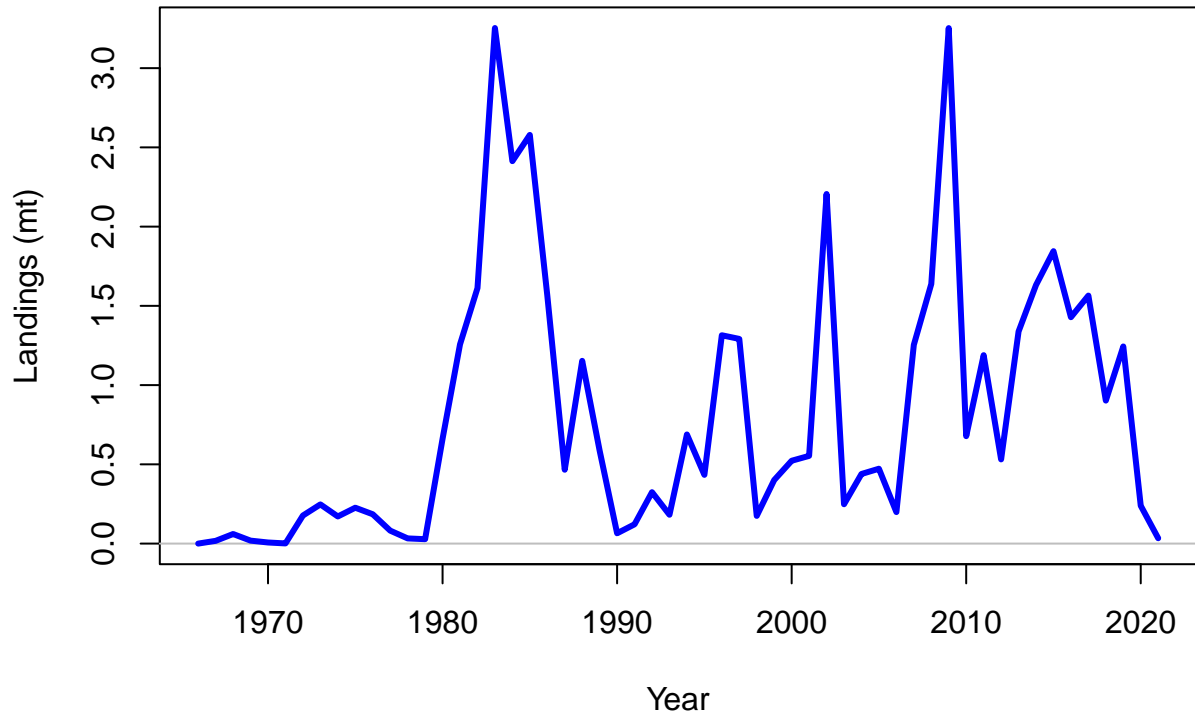


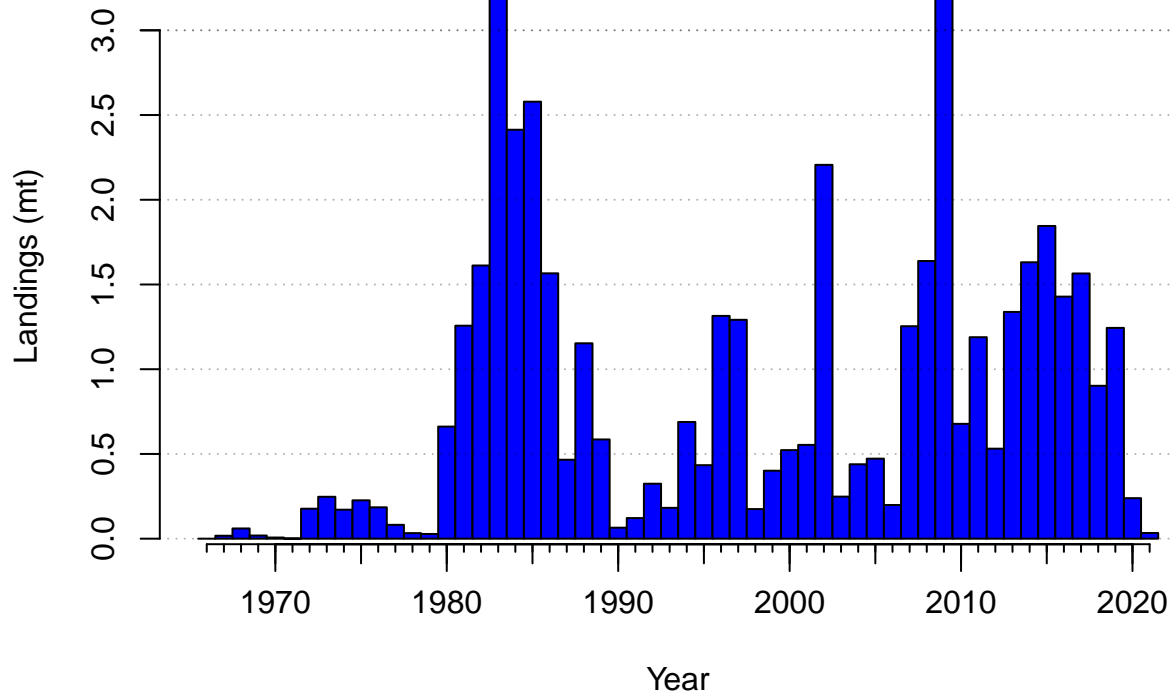


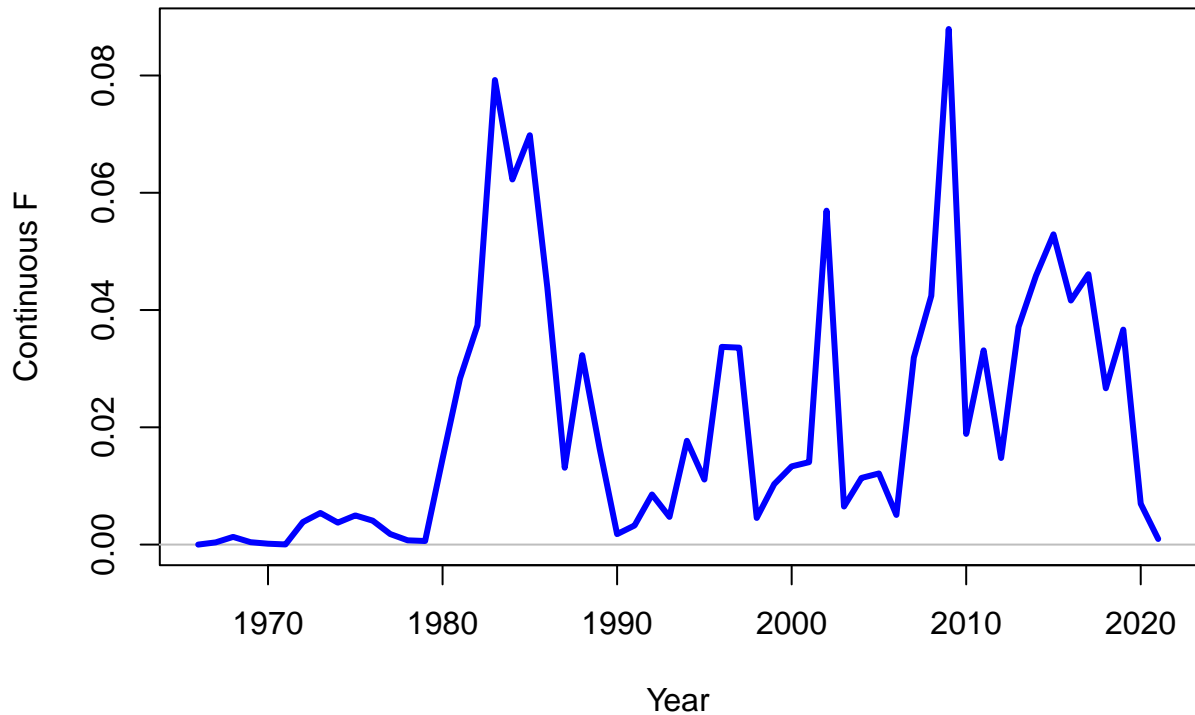




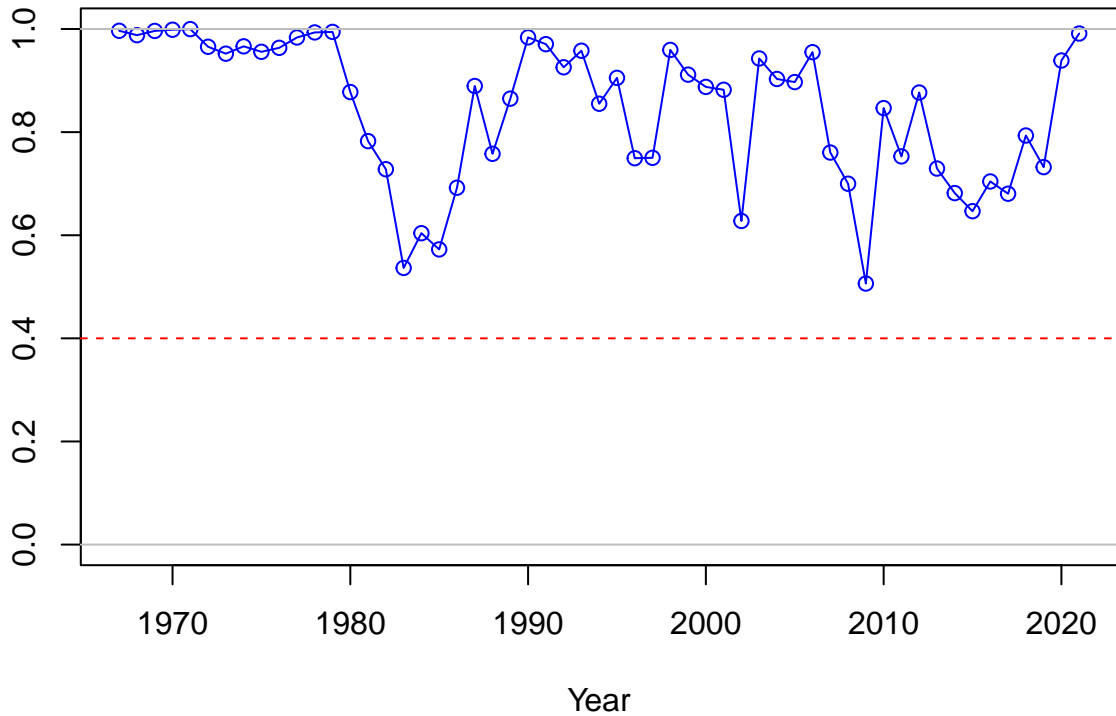




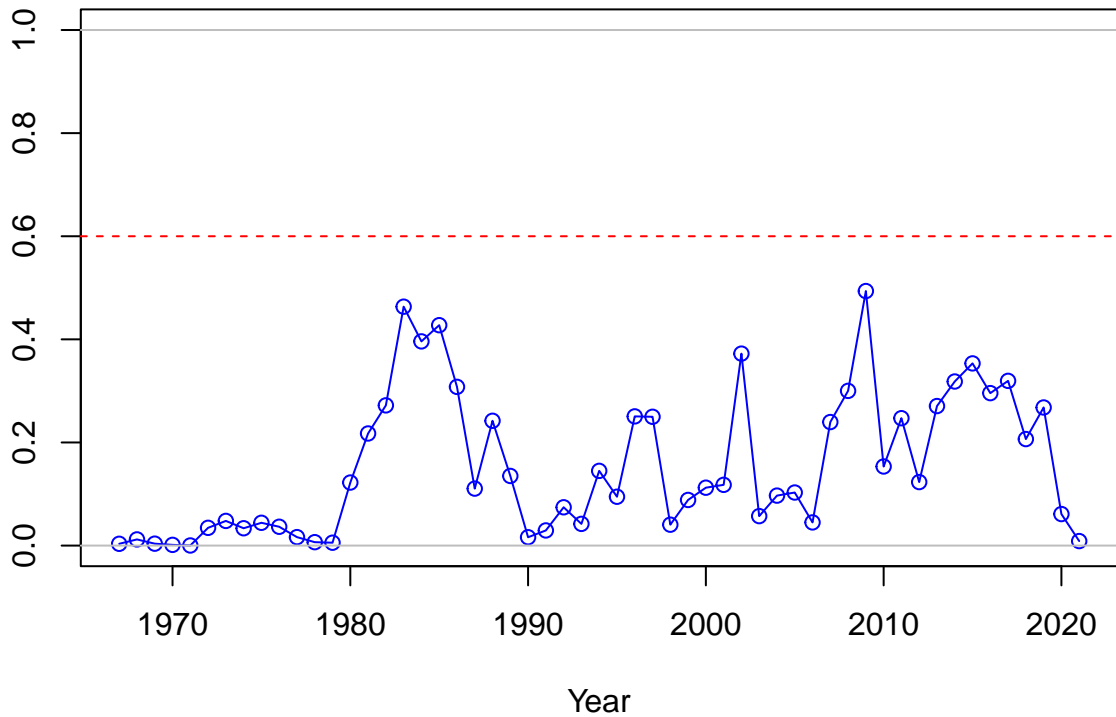




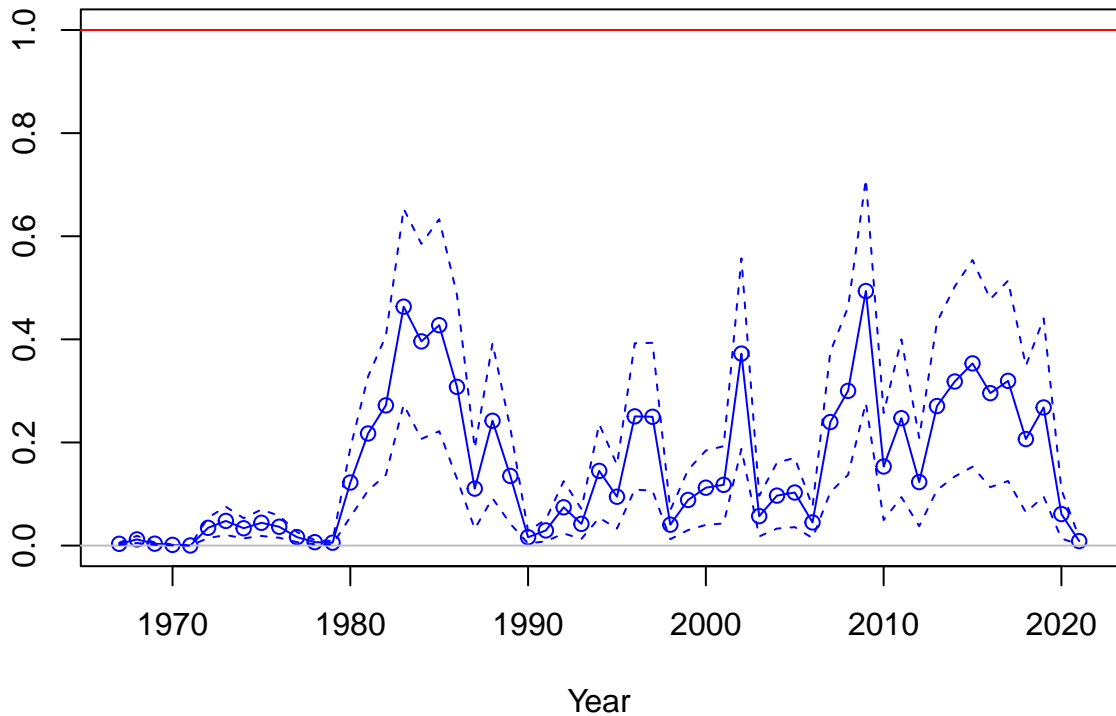
SPR



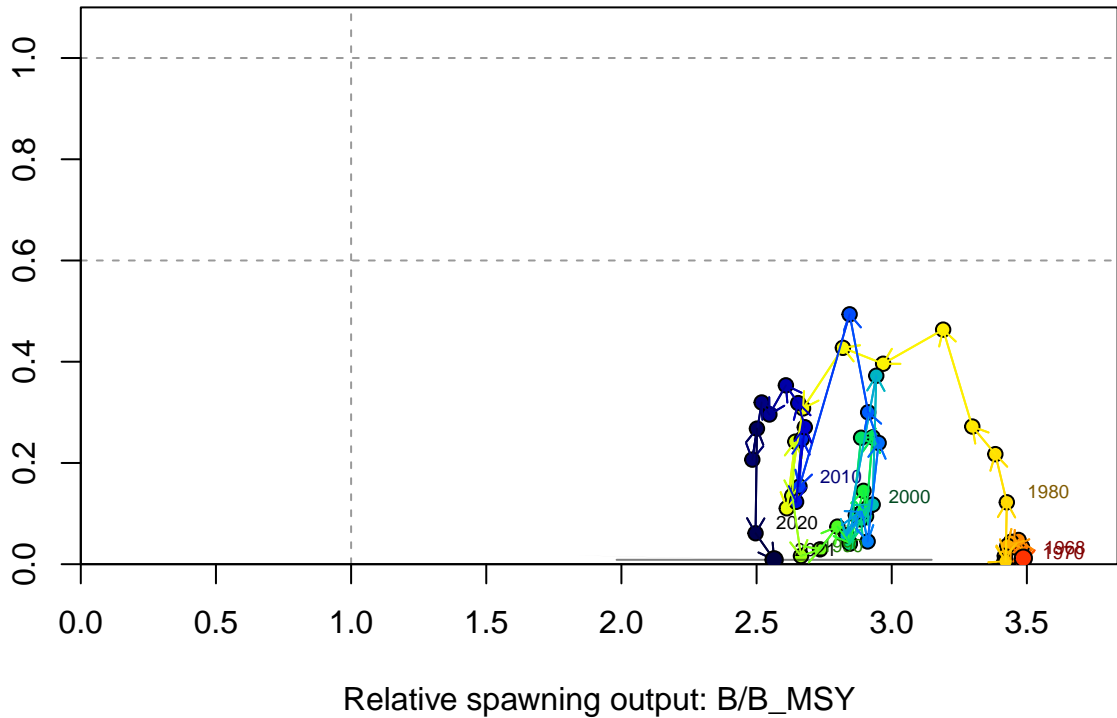
1-SPR



Fishing intensity: 1-SPR

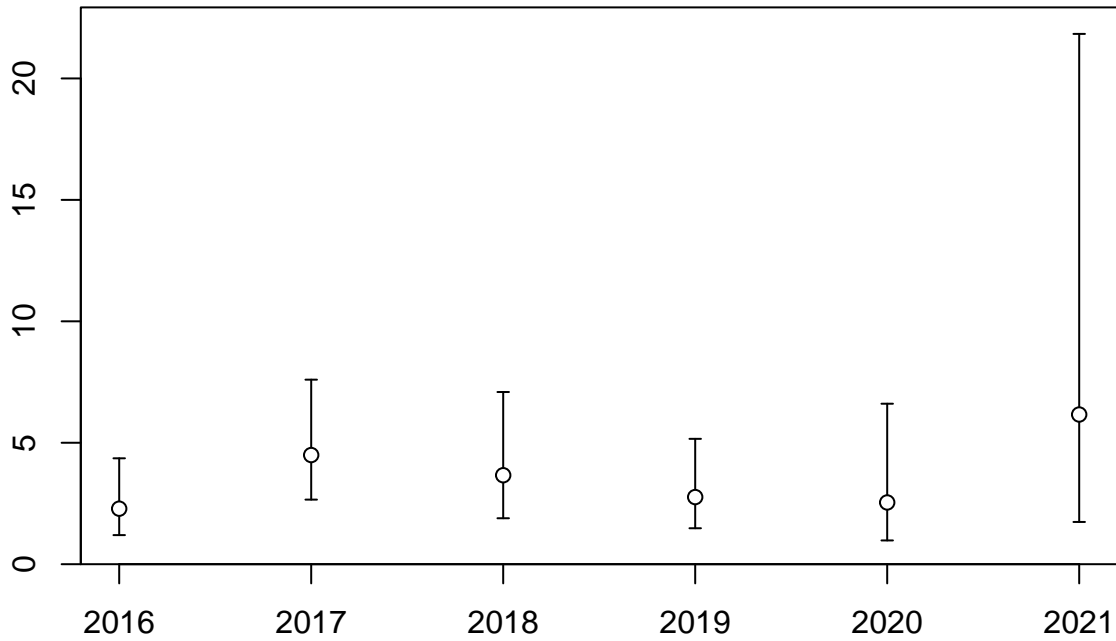


Fishing intensity: 1-SPR



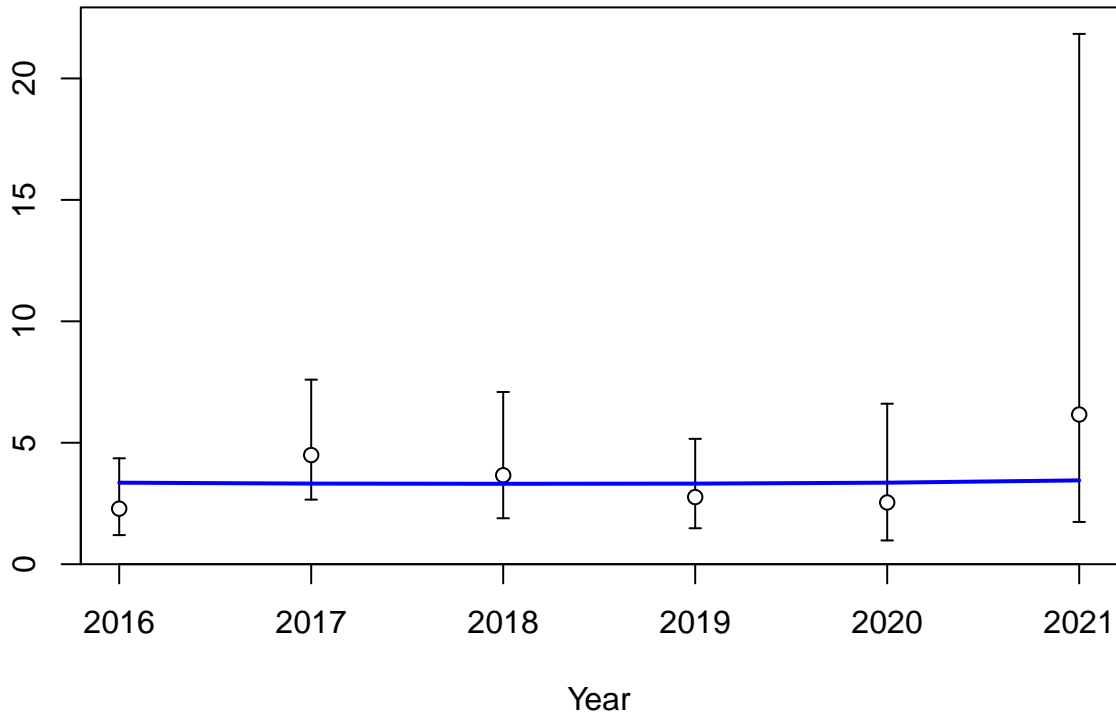


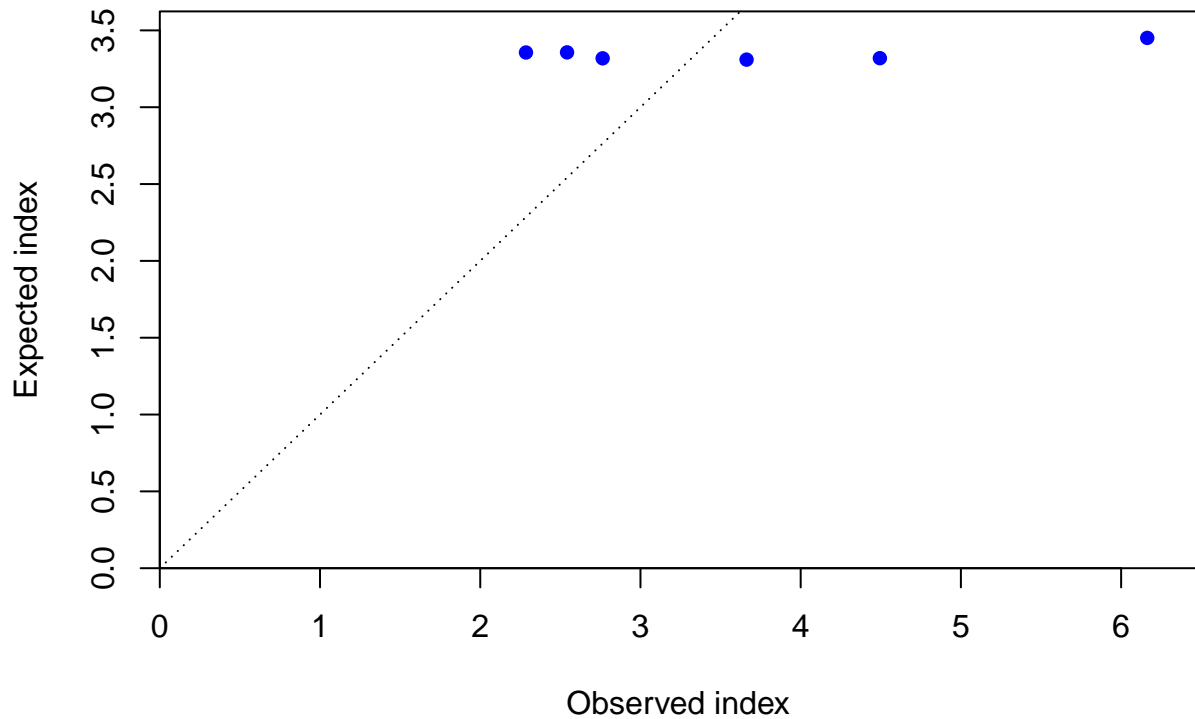
Index



Year

Index





Log index

3.0  
2.5  
2.0  
1.5  
1.0  
0.5  
0.0

2016

2017

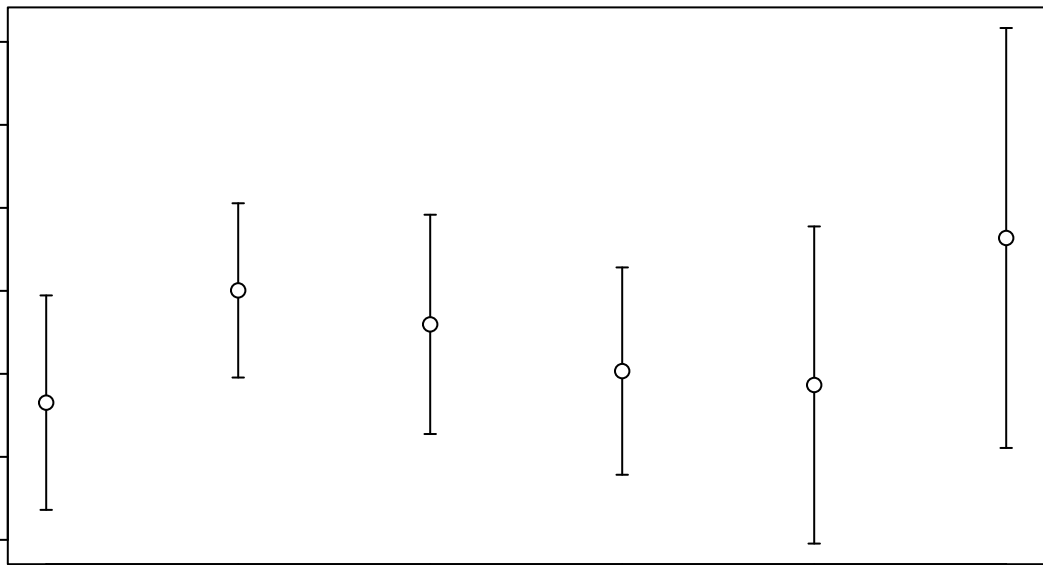
2018

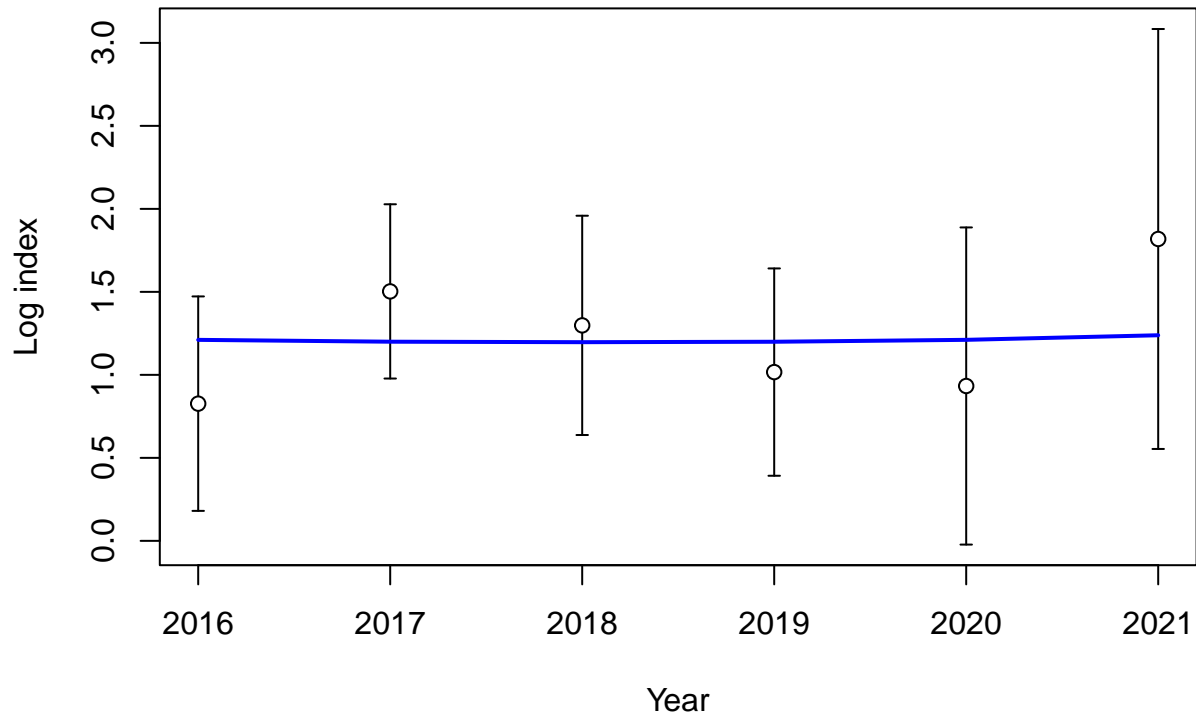
2019

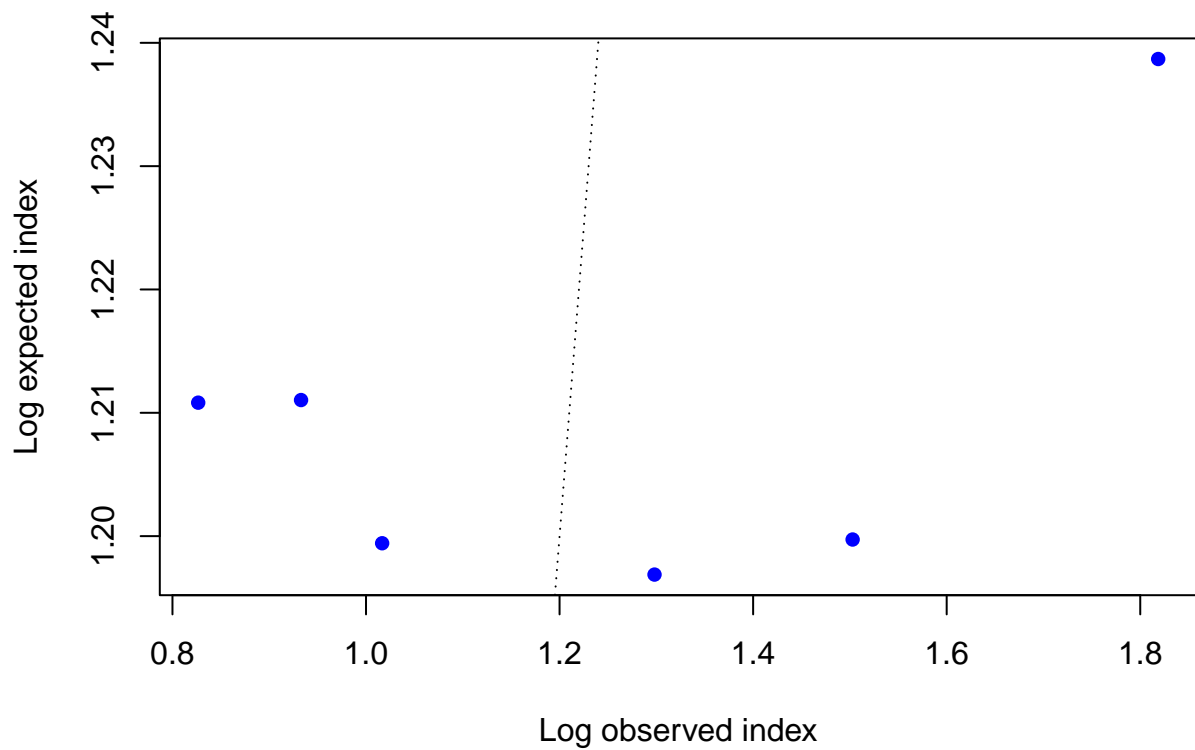
2020

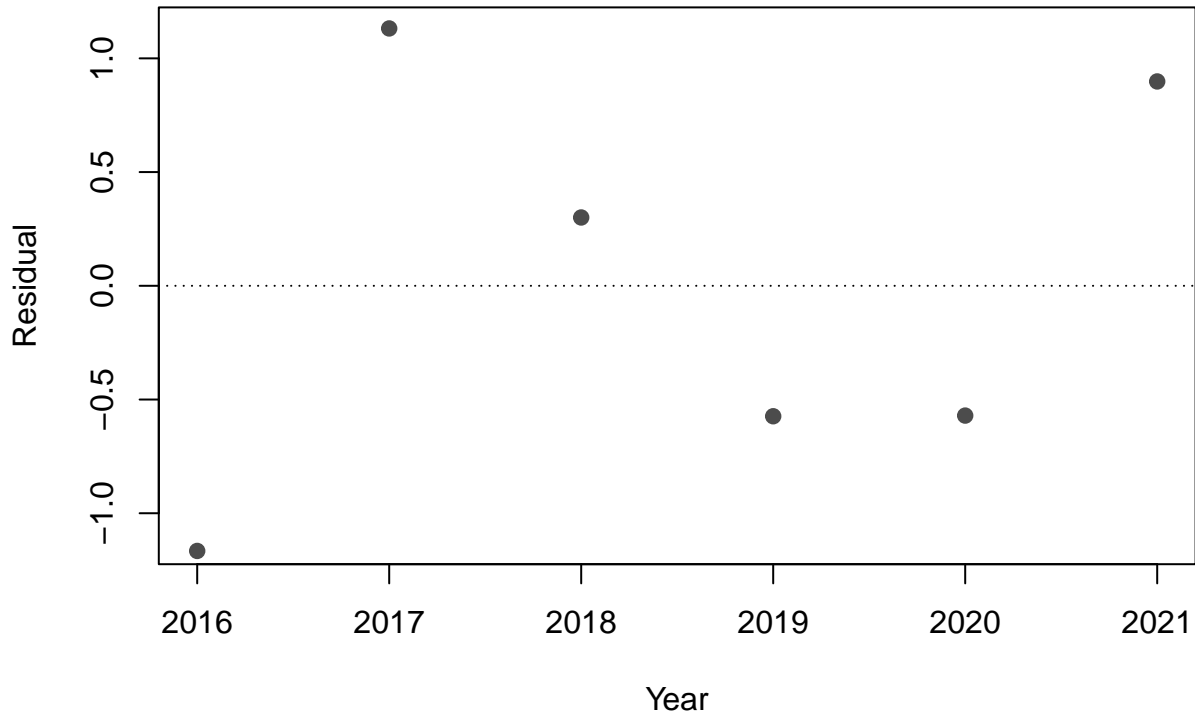
2021

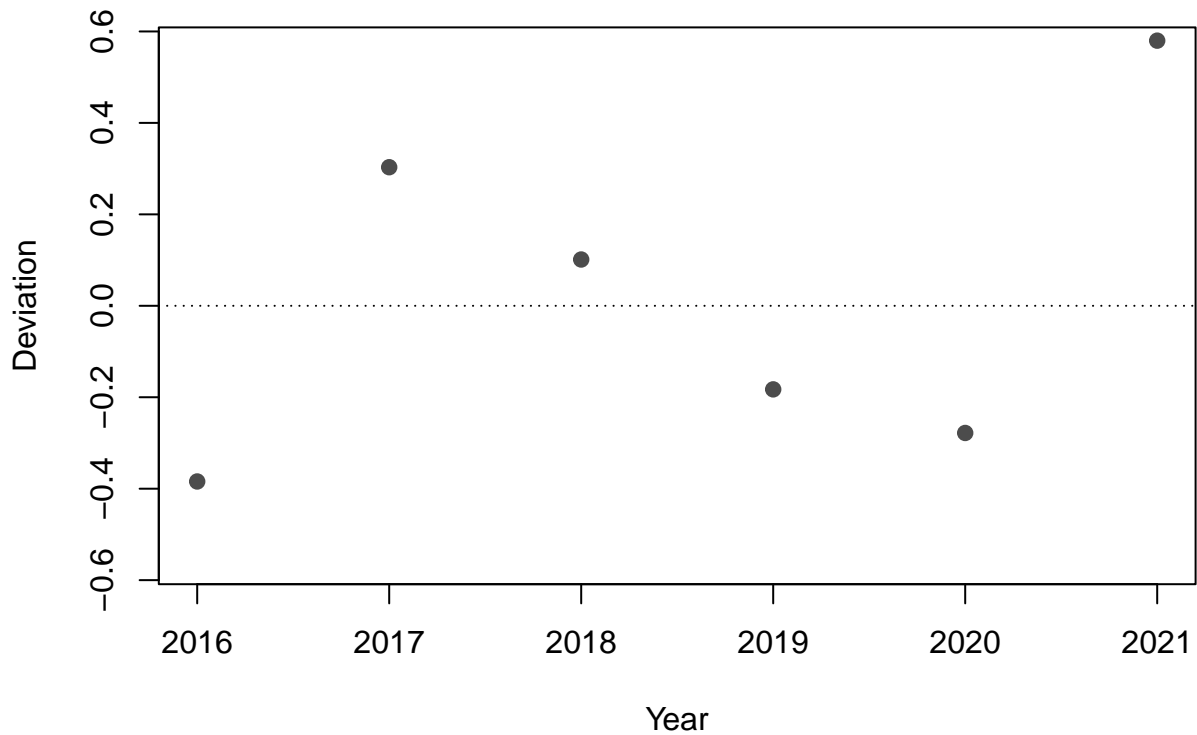
Year



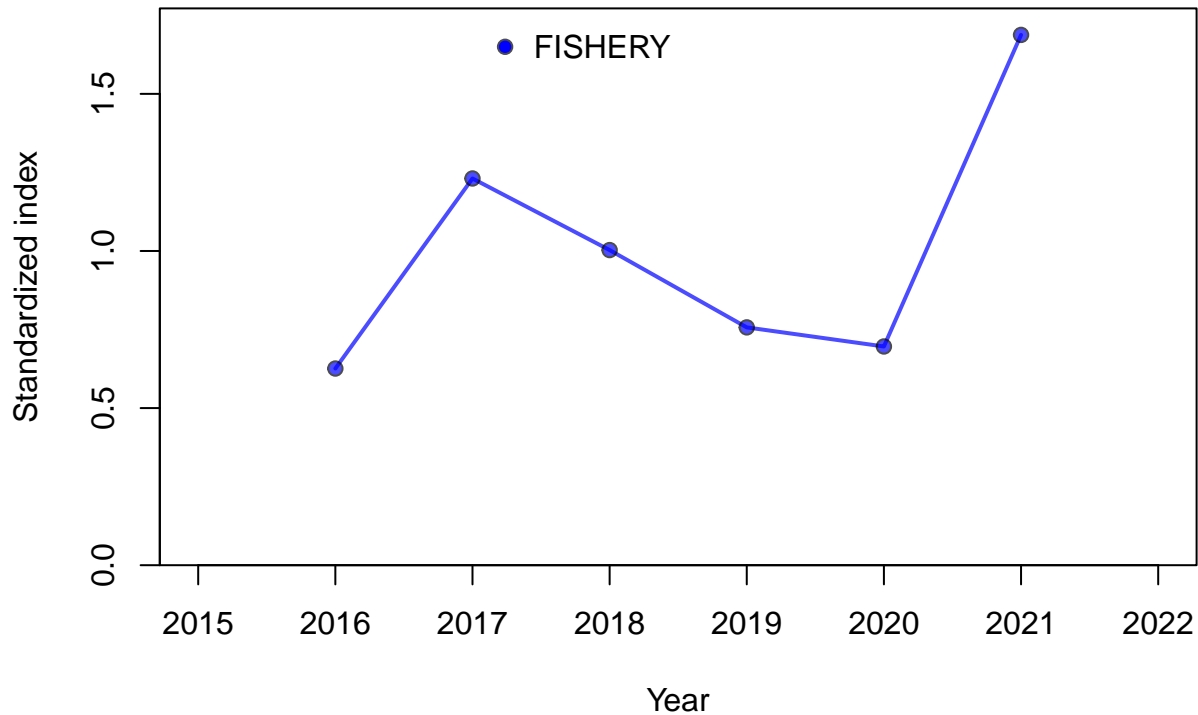


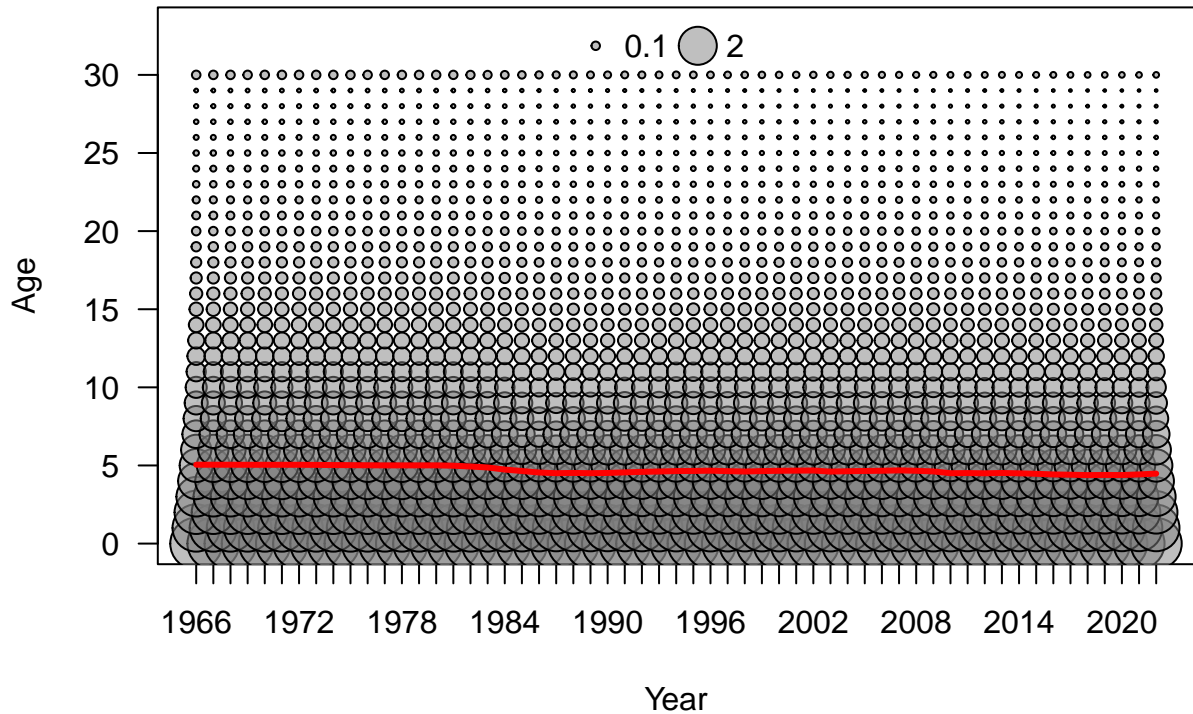


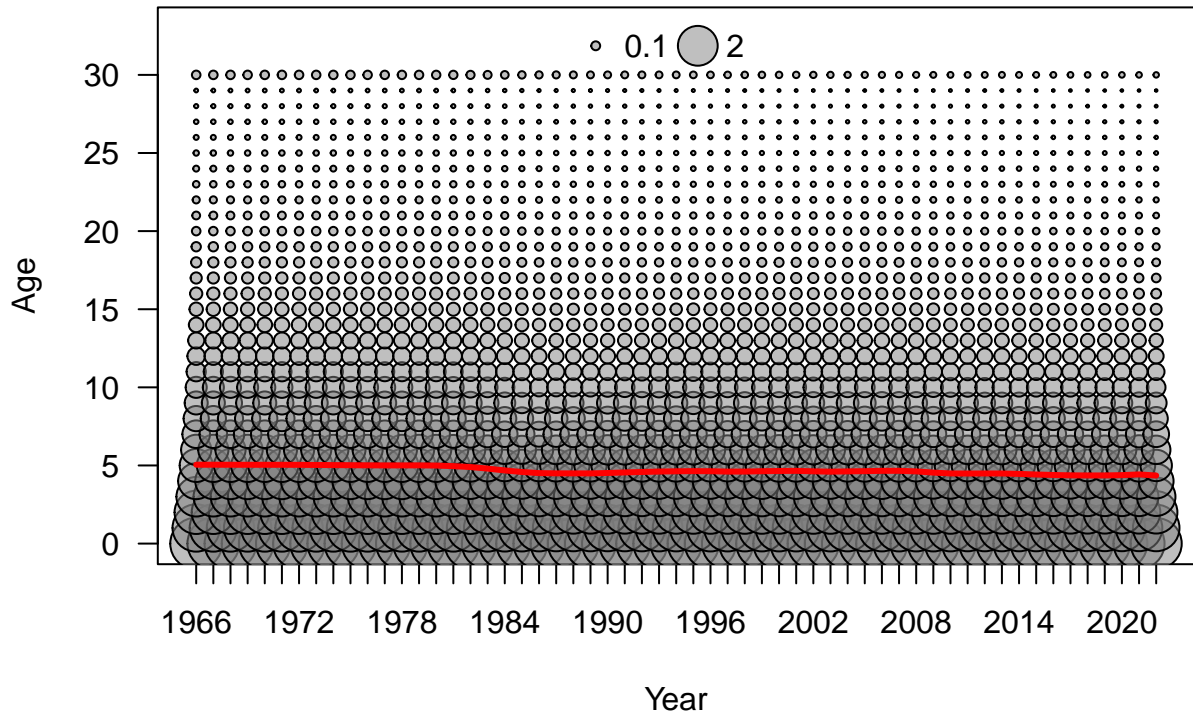


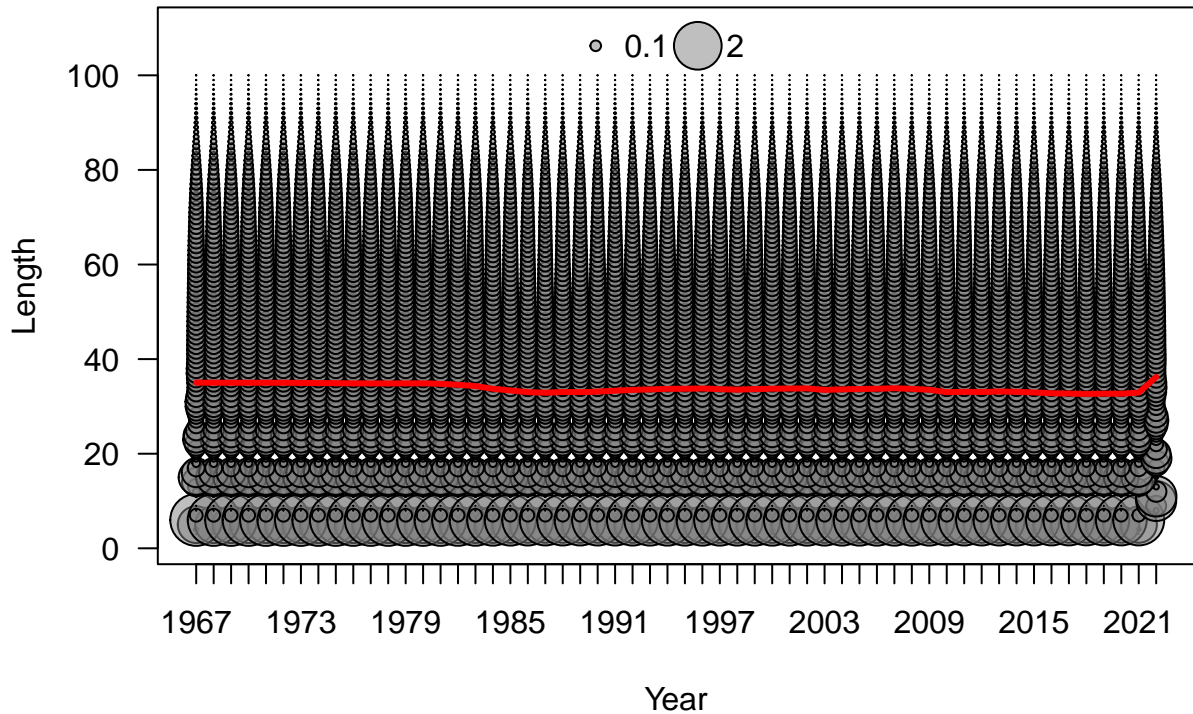


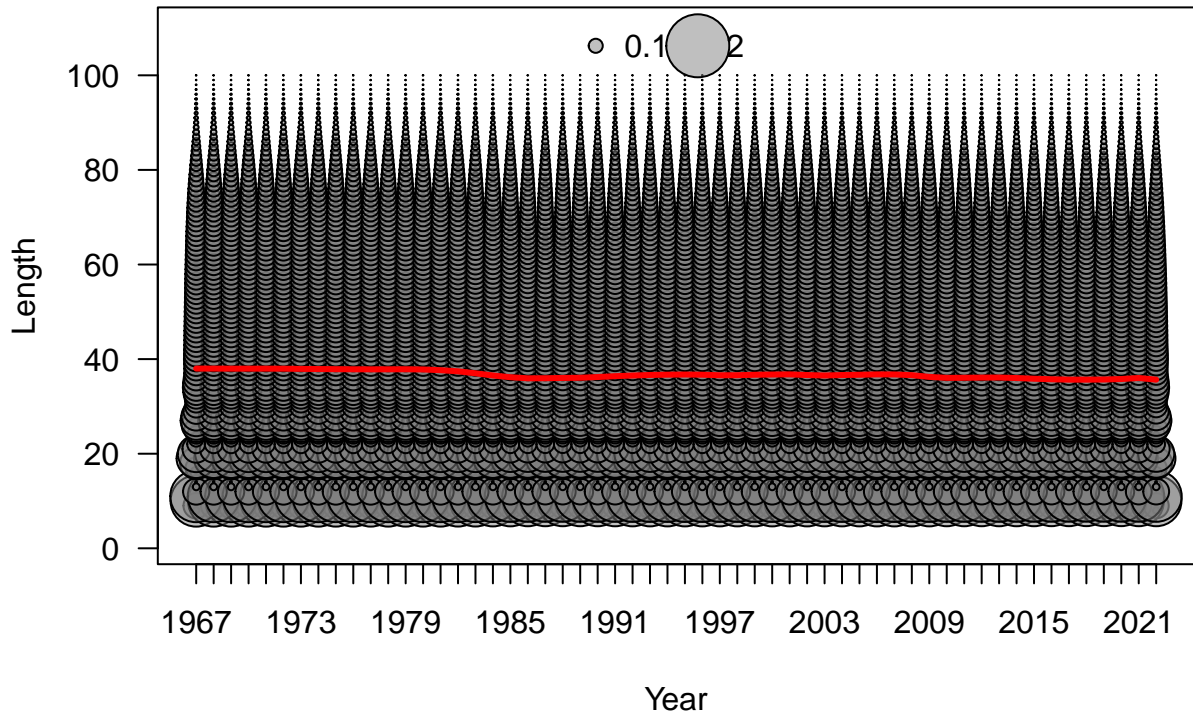


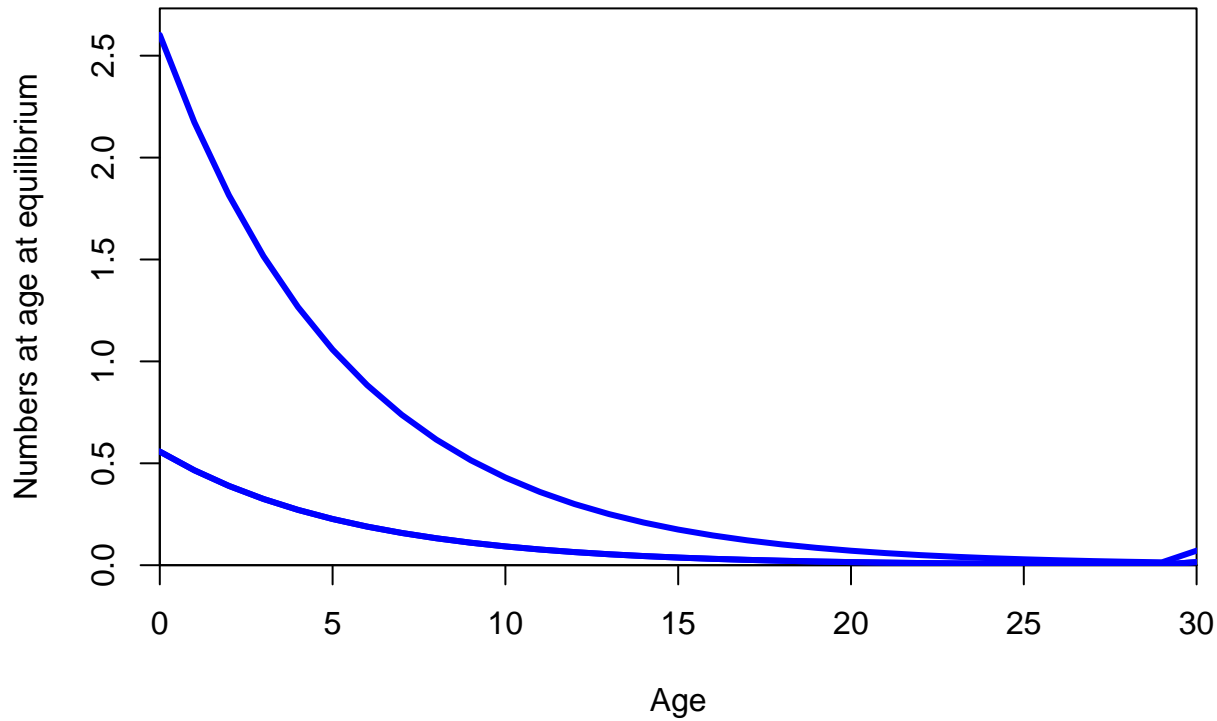






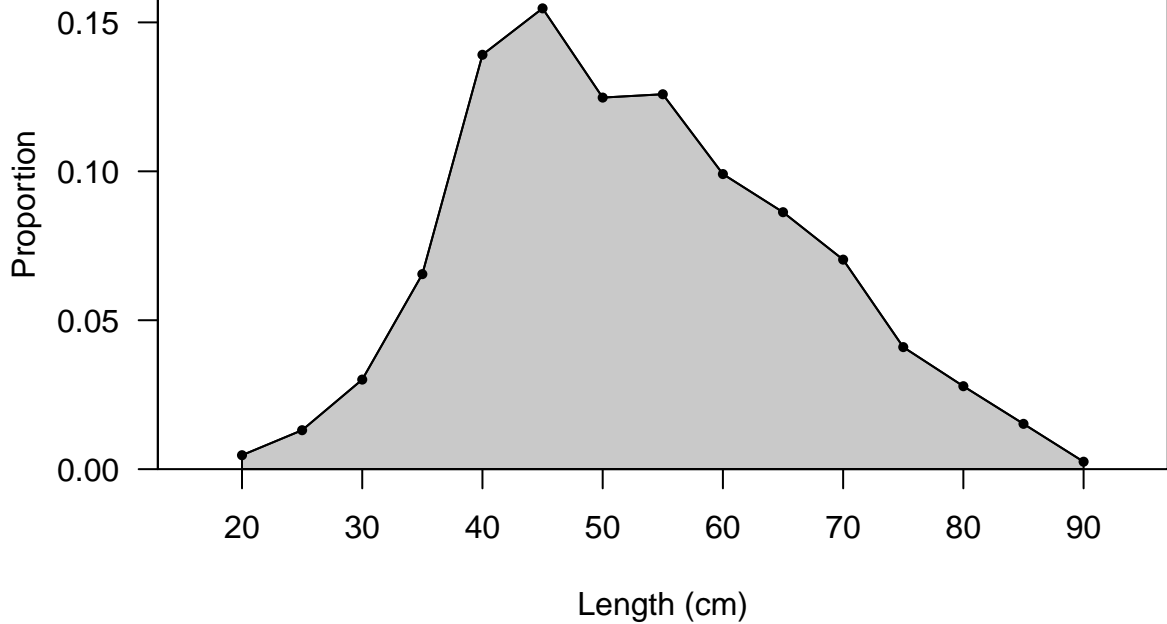






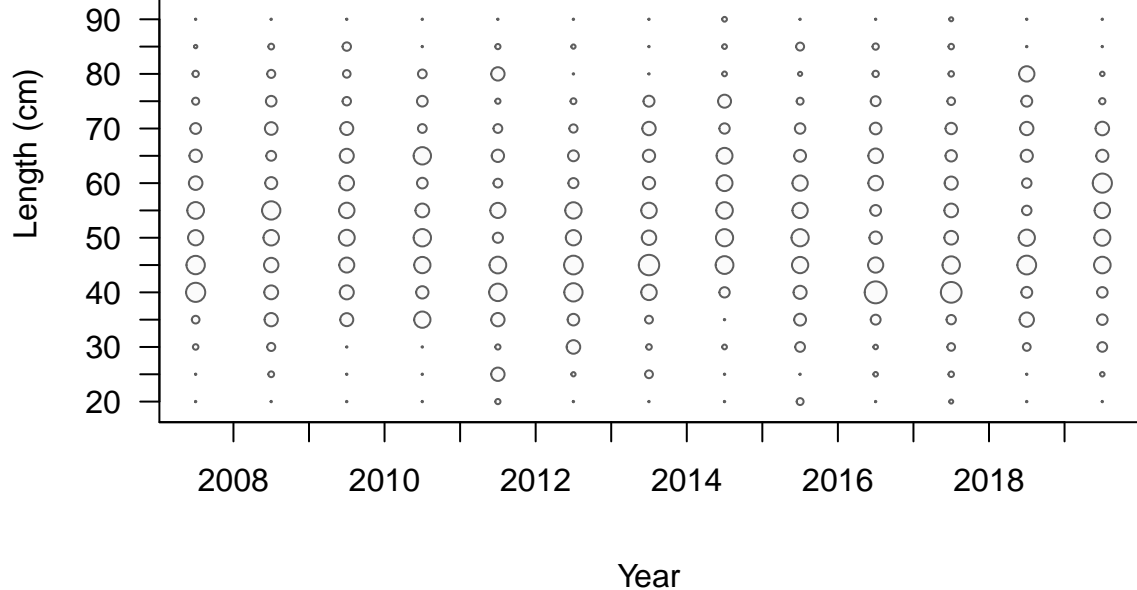
**FISHERY**

Sum of N input=1078



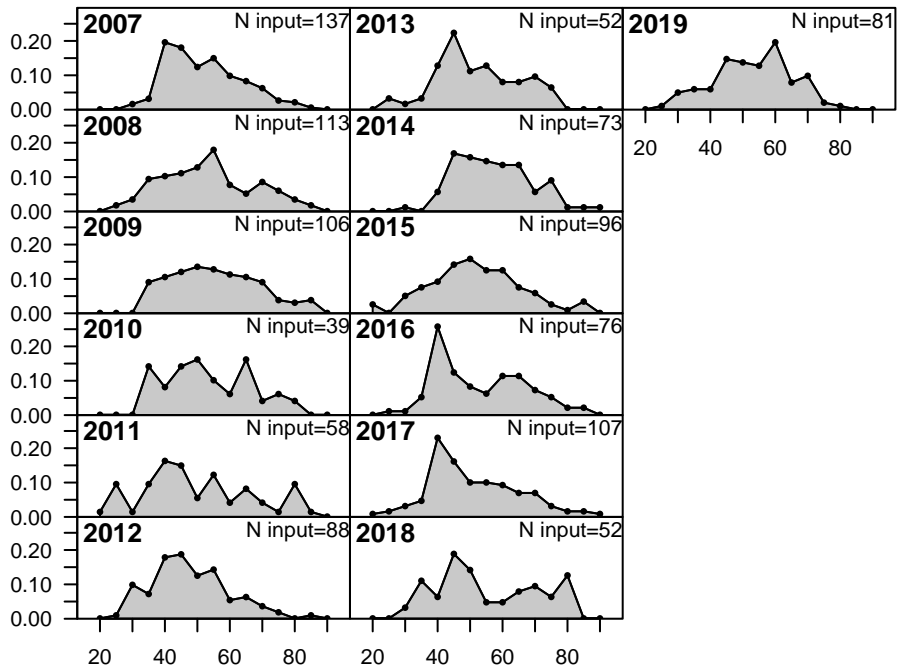
# FISHERY

◦ 0.01 ○ 0.2

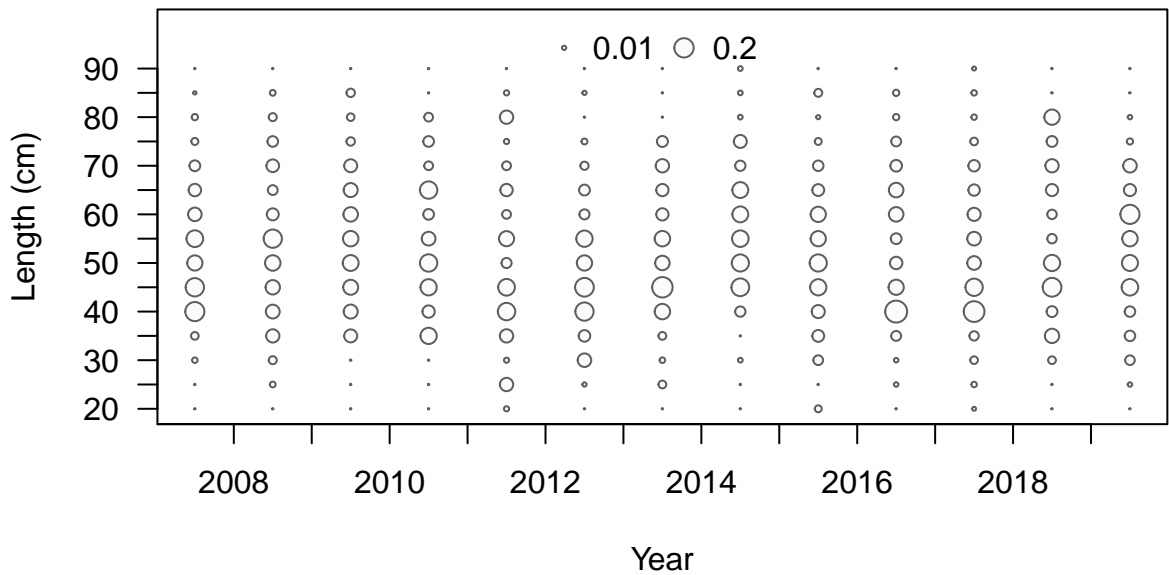




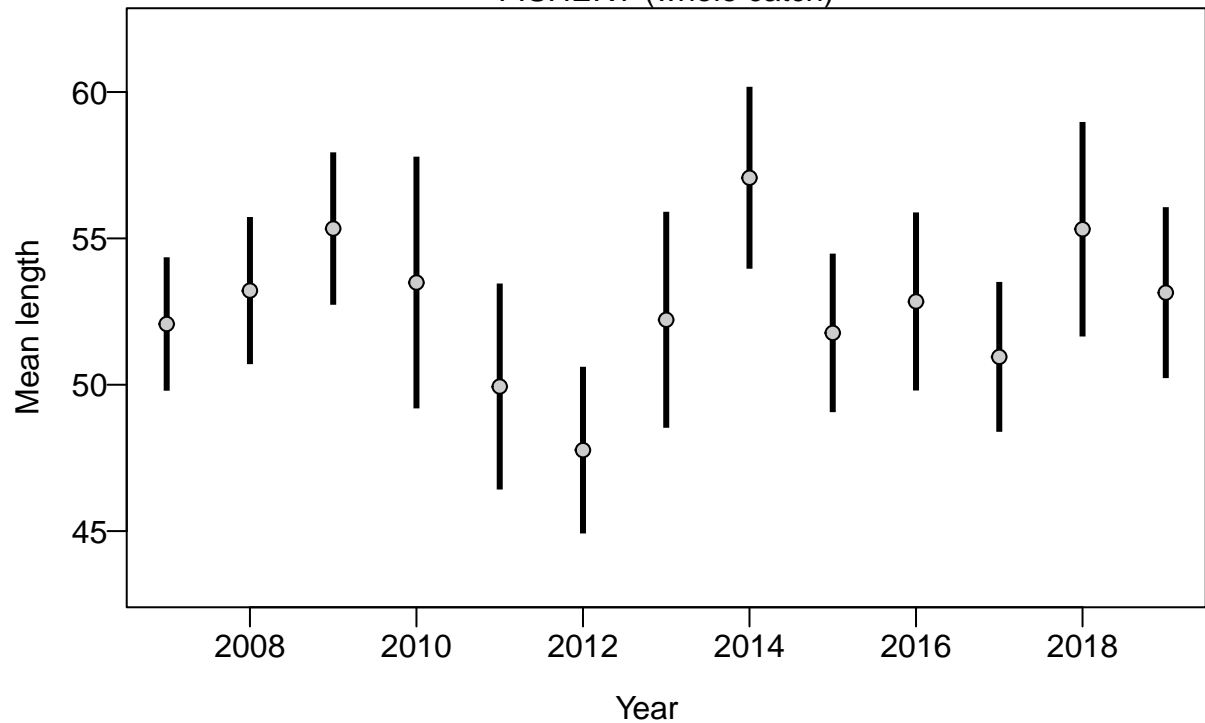
Proportion



Length (cm)

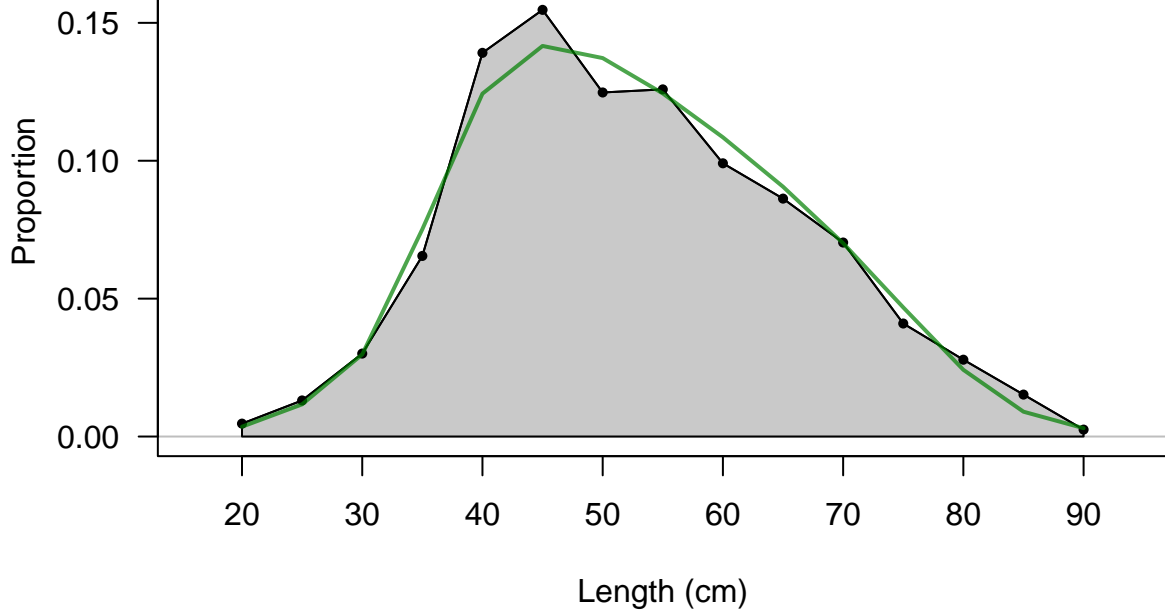


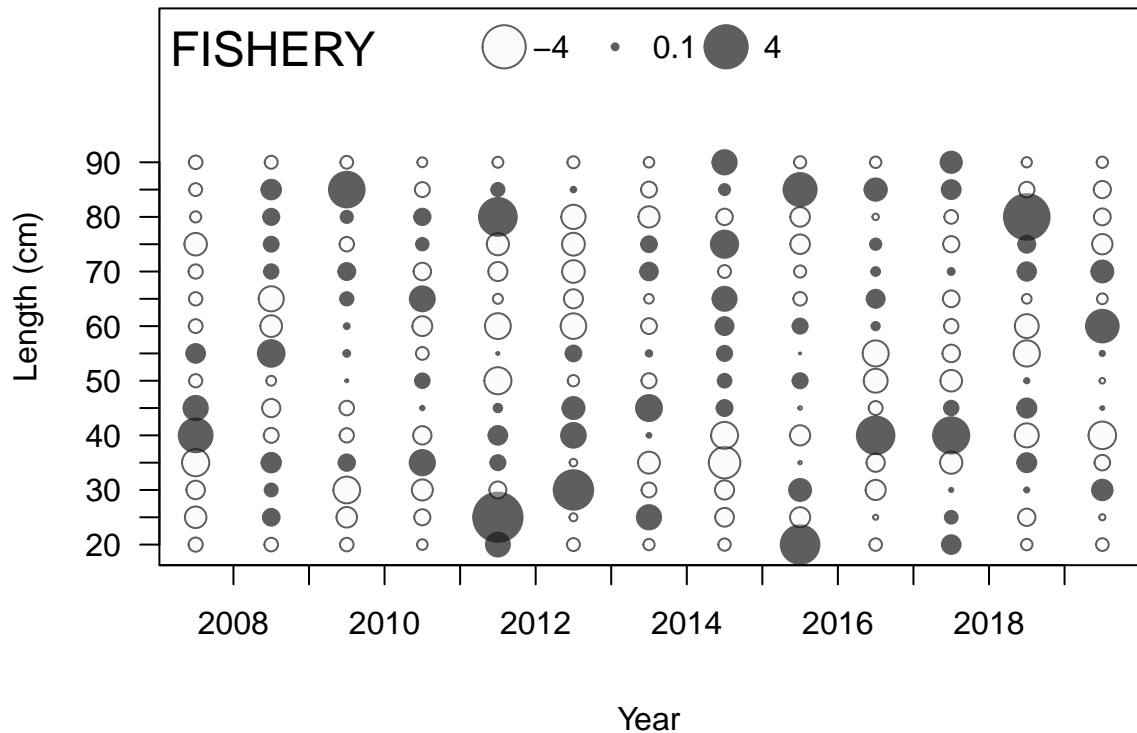
FISHERY (whole catch)



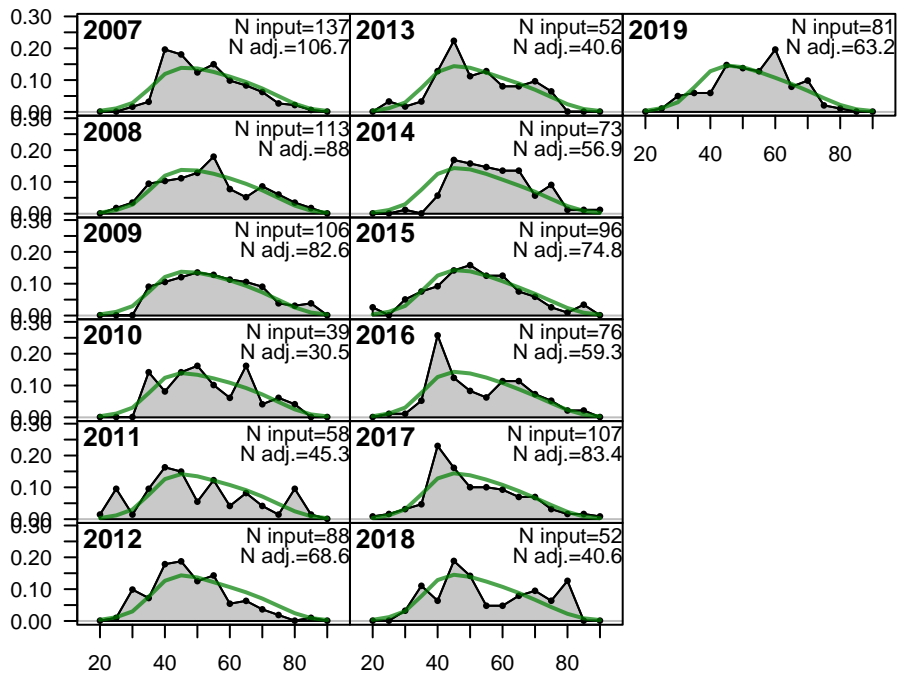
# FISHERY

Sum of N input=1078  
Sum of N adj.=840.4

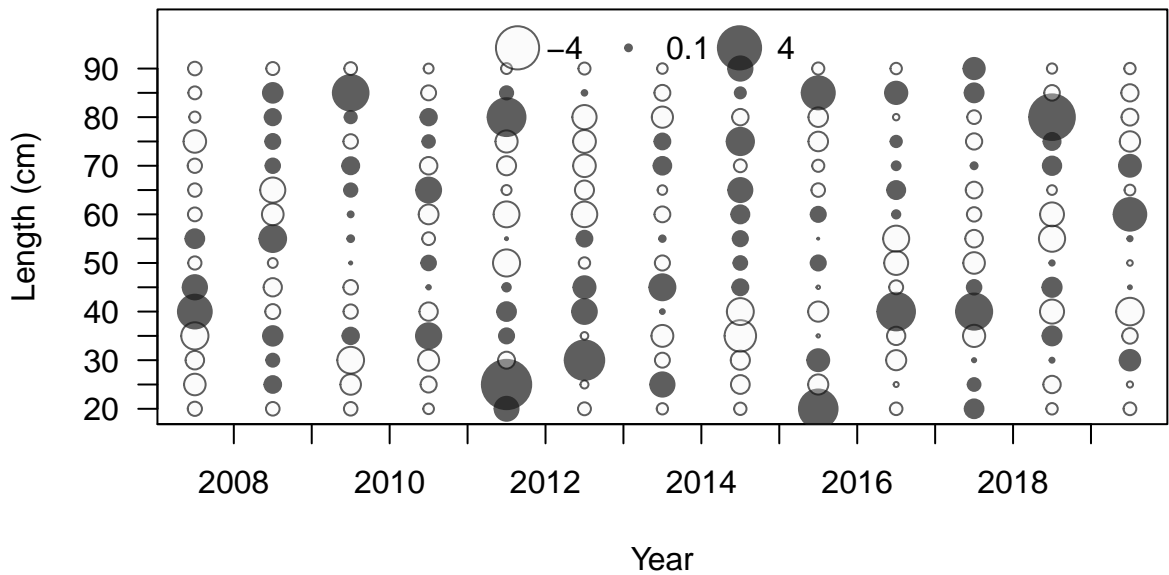




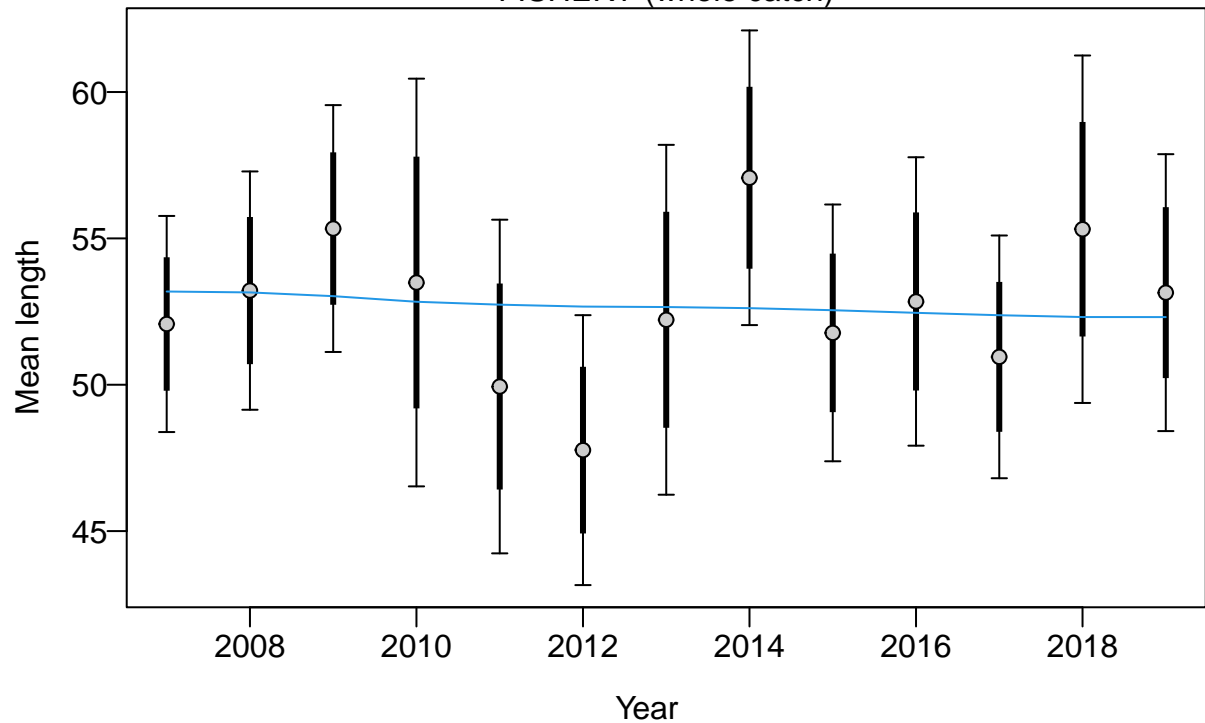
Proportion



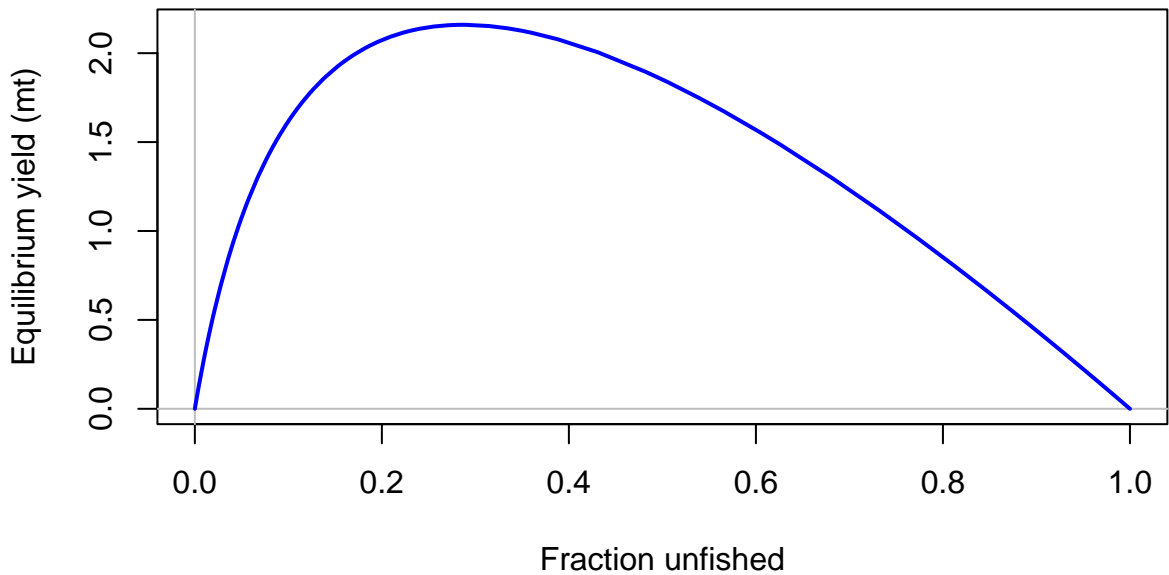
Length (cm)

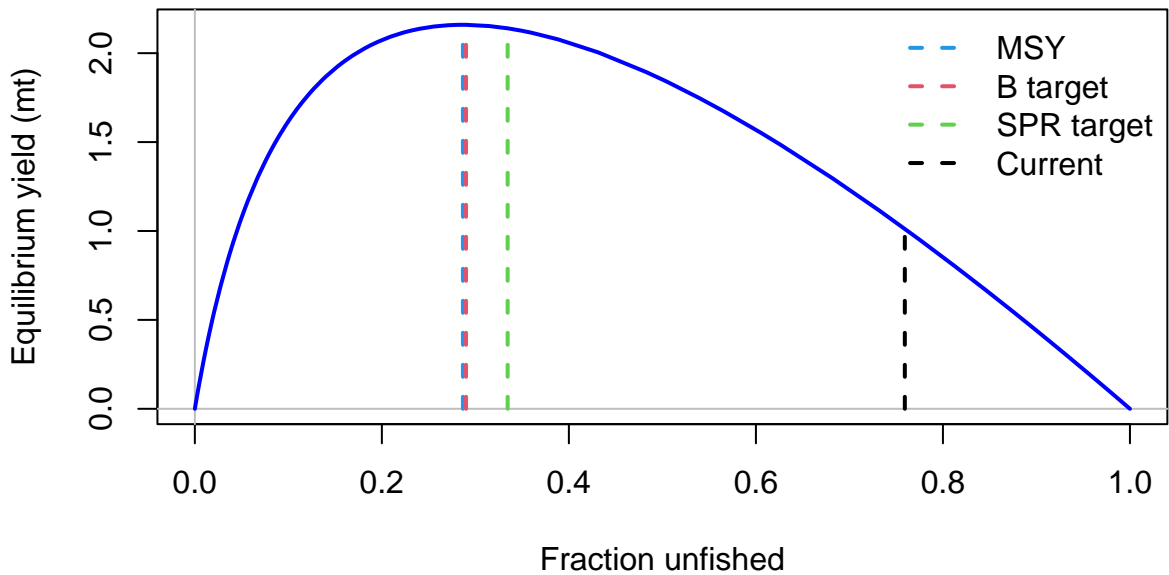


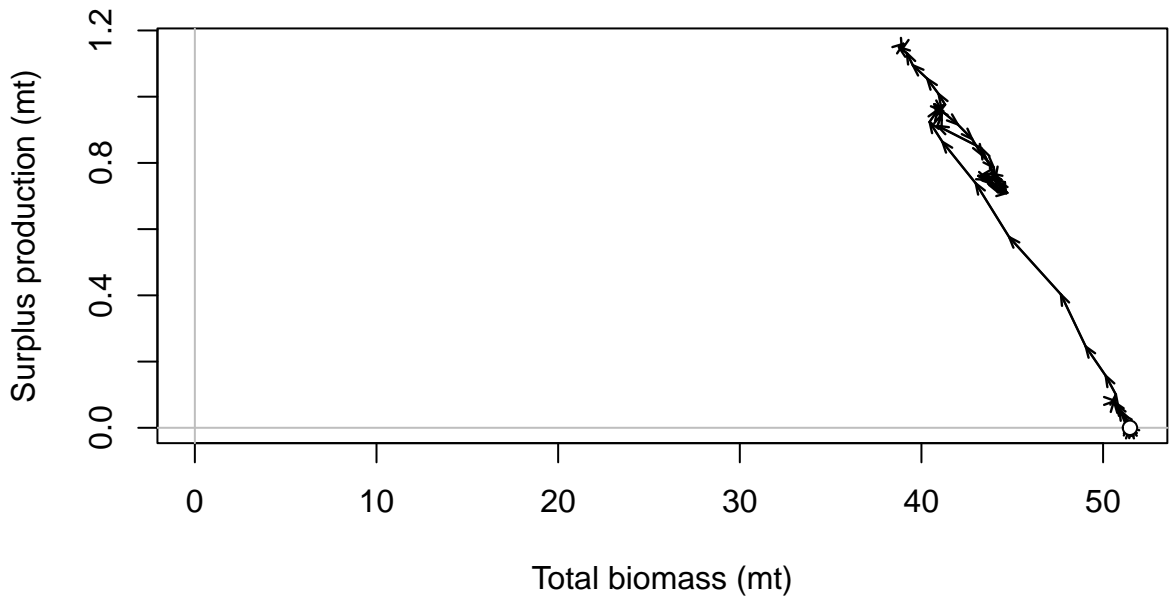
FISHERY (whole catch)

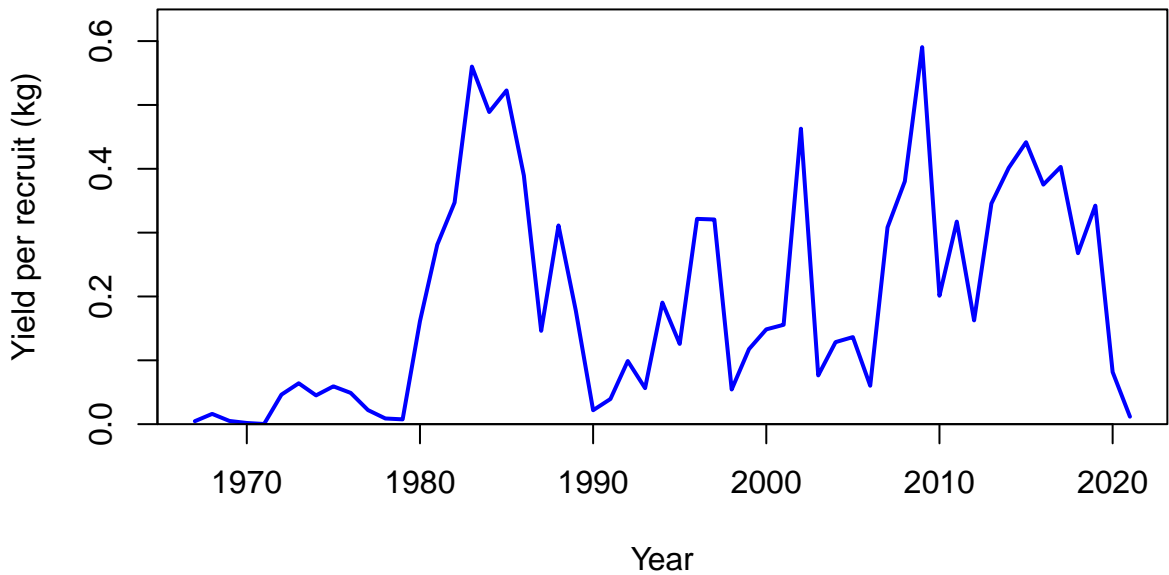


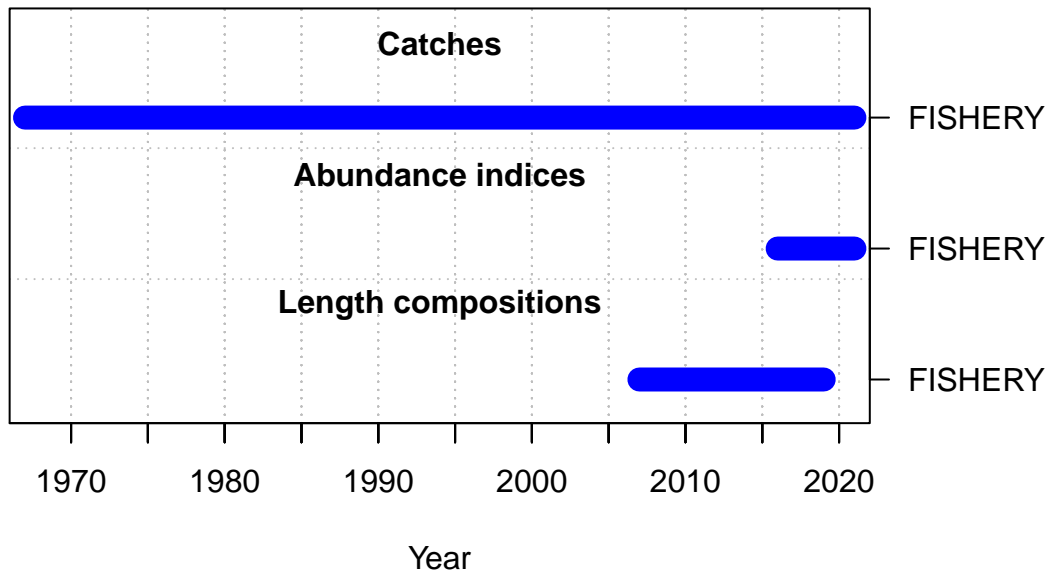


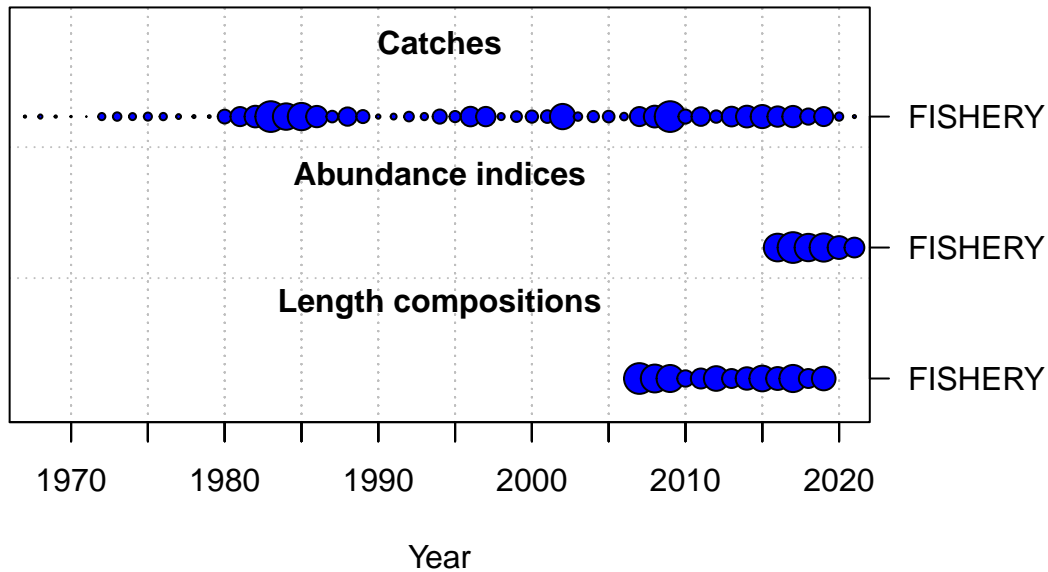








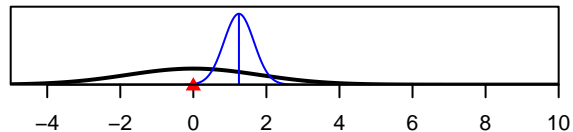




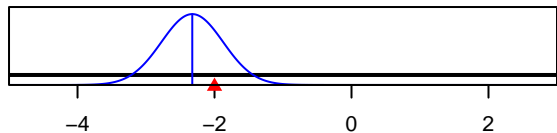
SR\_LN(R0)



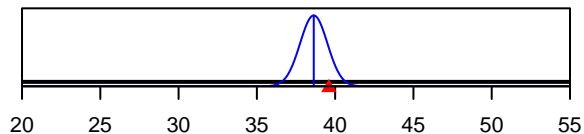
ln(DM\_theta)\_1



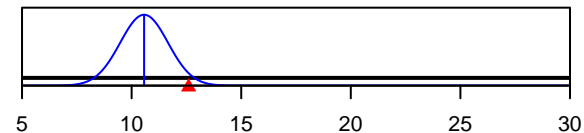
LnQ\_base\_FISHERY(1)



Size\_inflection\_FISHERY(1)



Size\_95%width\_FISHERY(1)



Parameter value