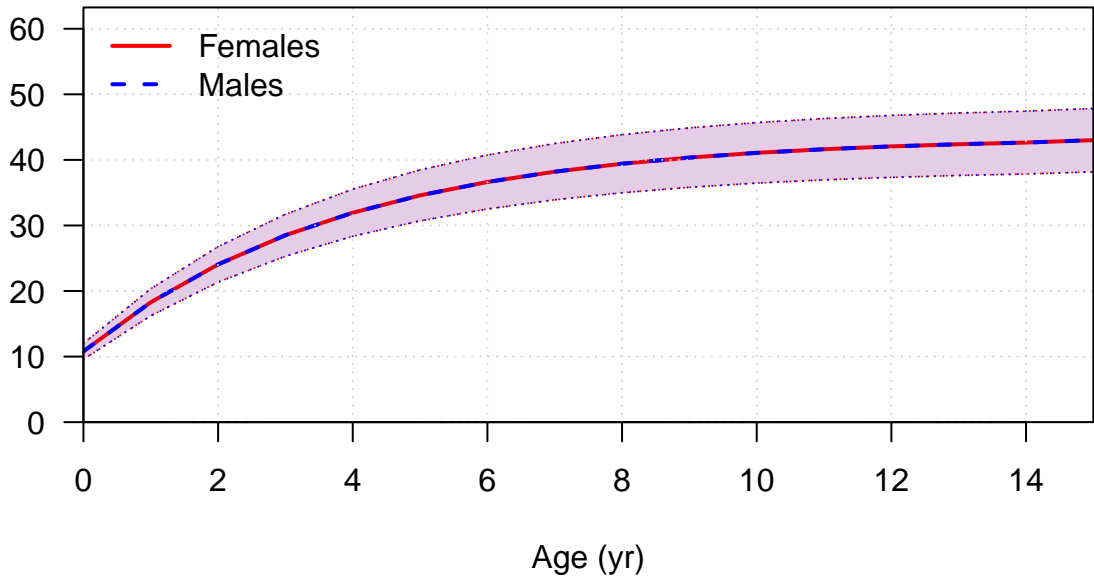
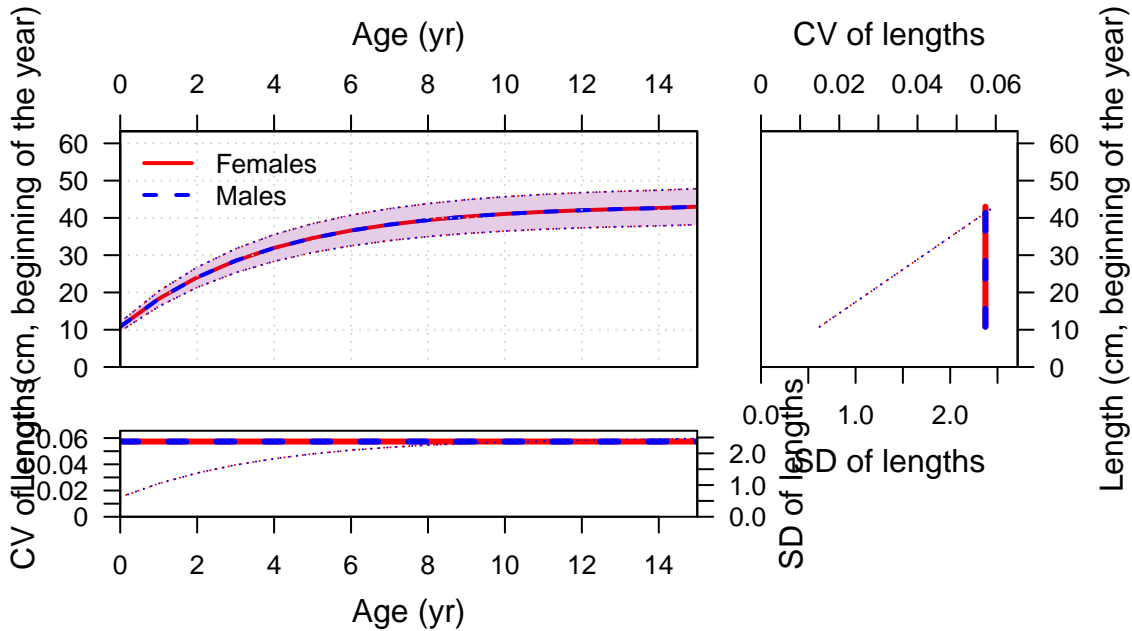
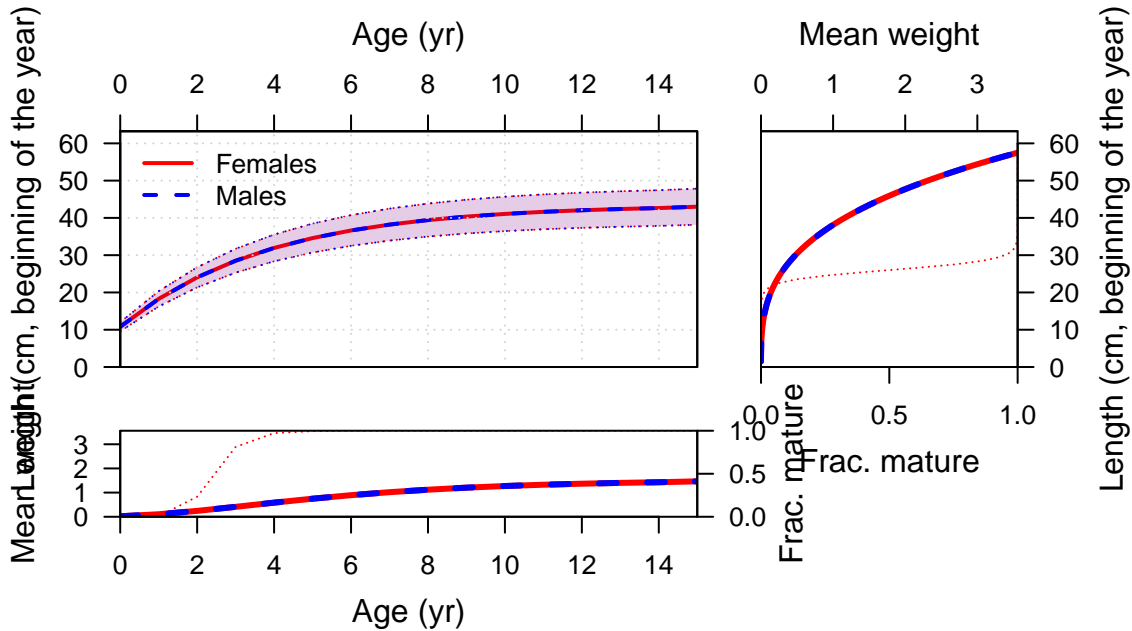


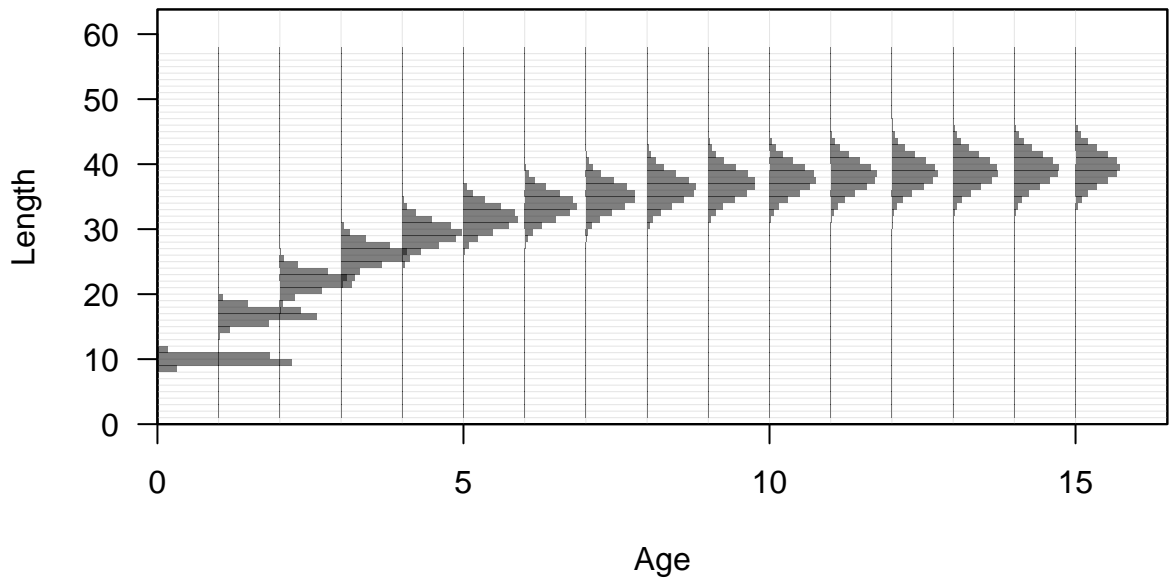
Plots created using the 'r4ss' package in R  
Stock Synthesis version: 3.30.19.0  
StartTime: Fri Aug 12 16:28:30 2022  
Data\_File: data.ss  
Control\_File: control.ss

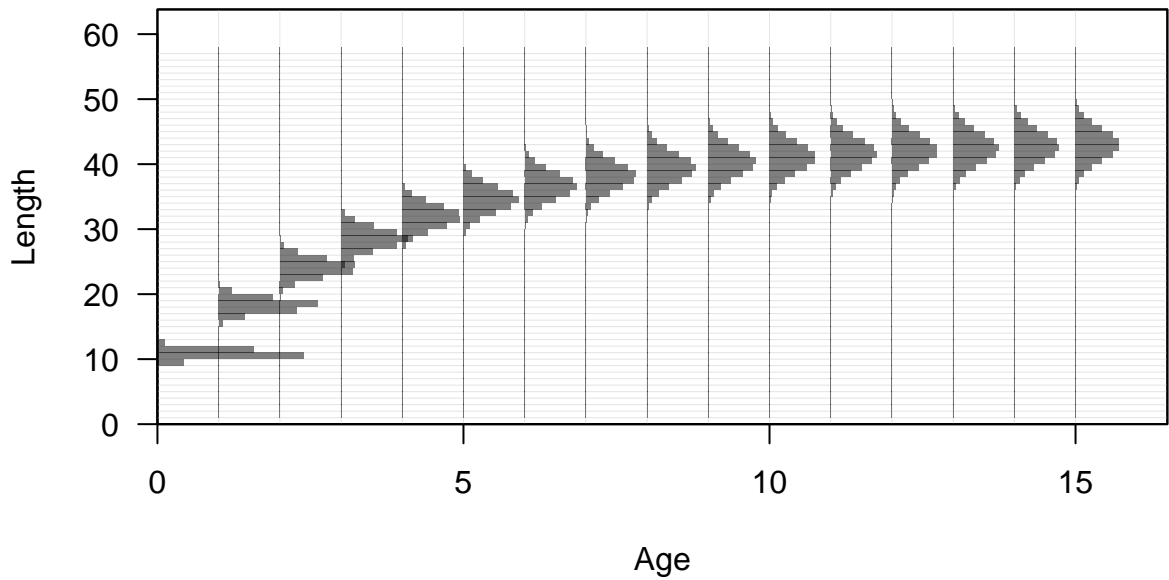
Length (cm, beginning of the year)

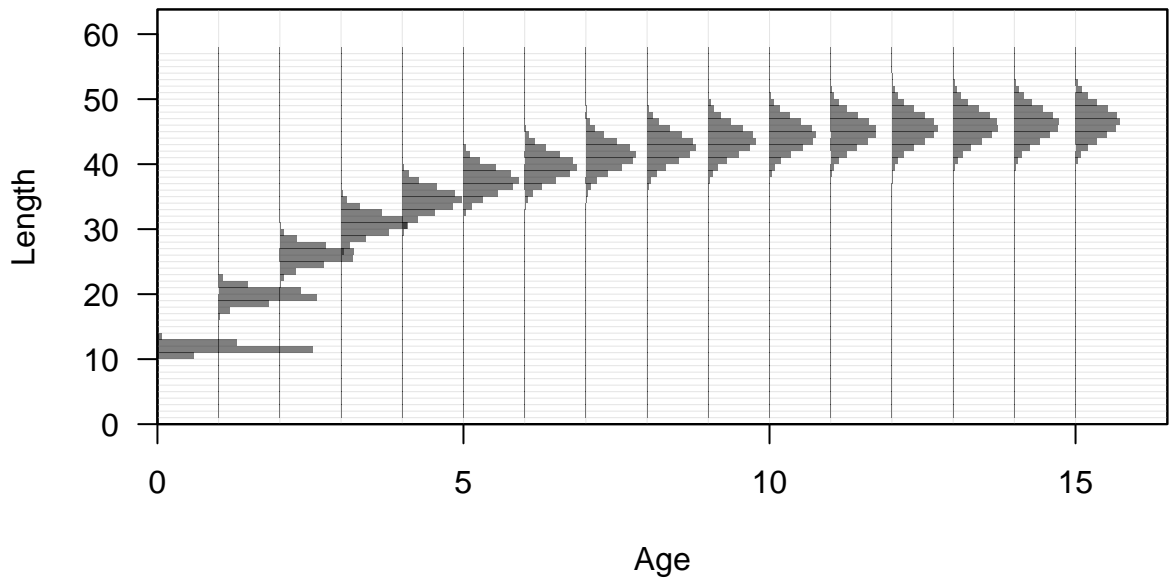


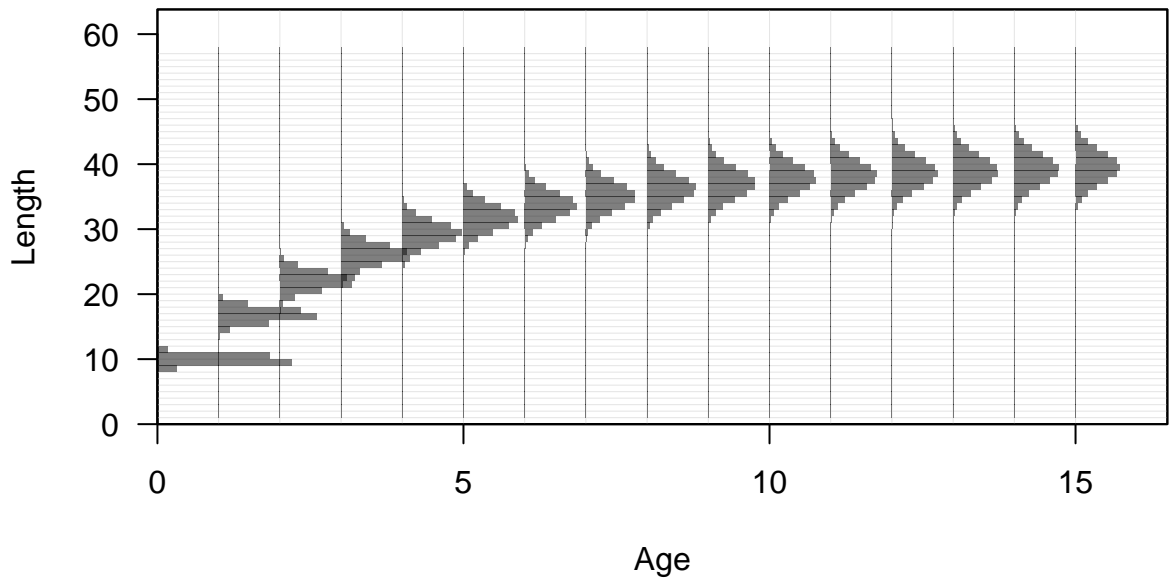




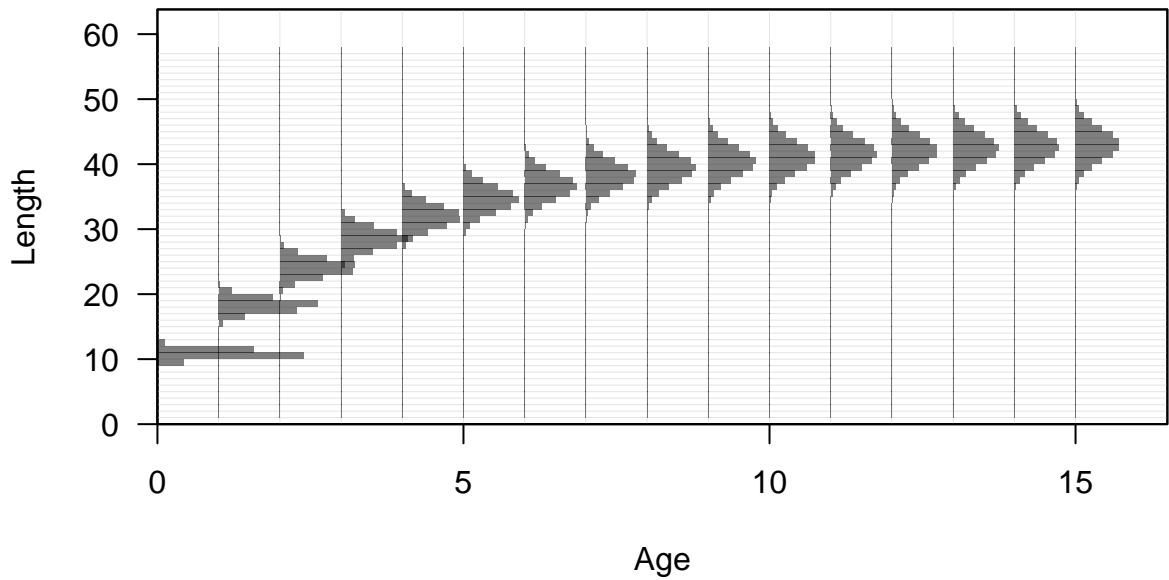


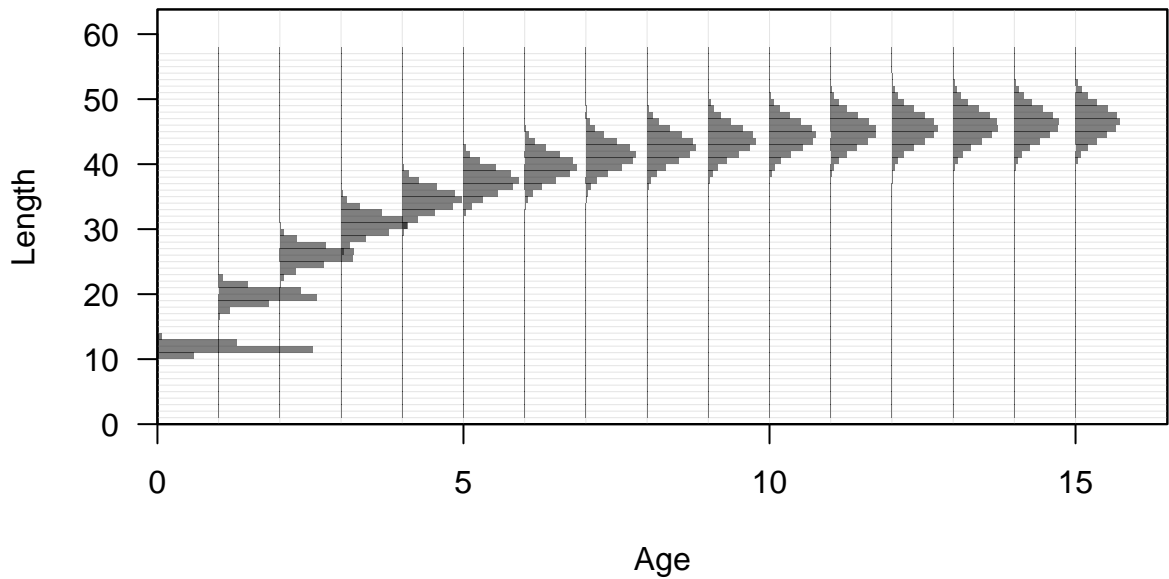


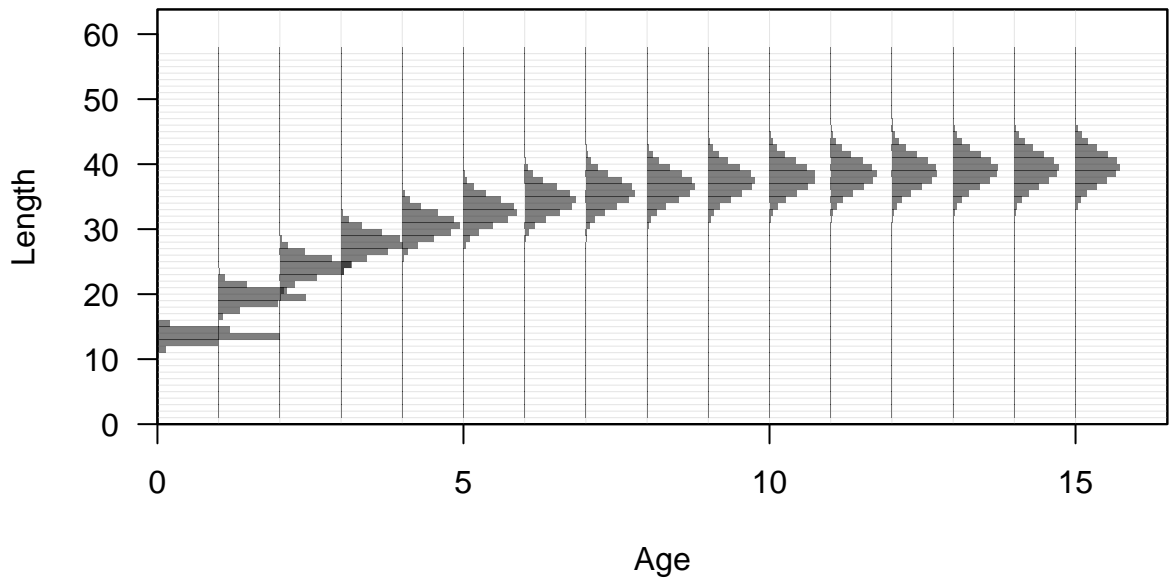


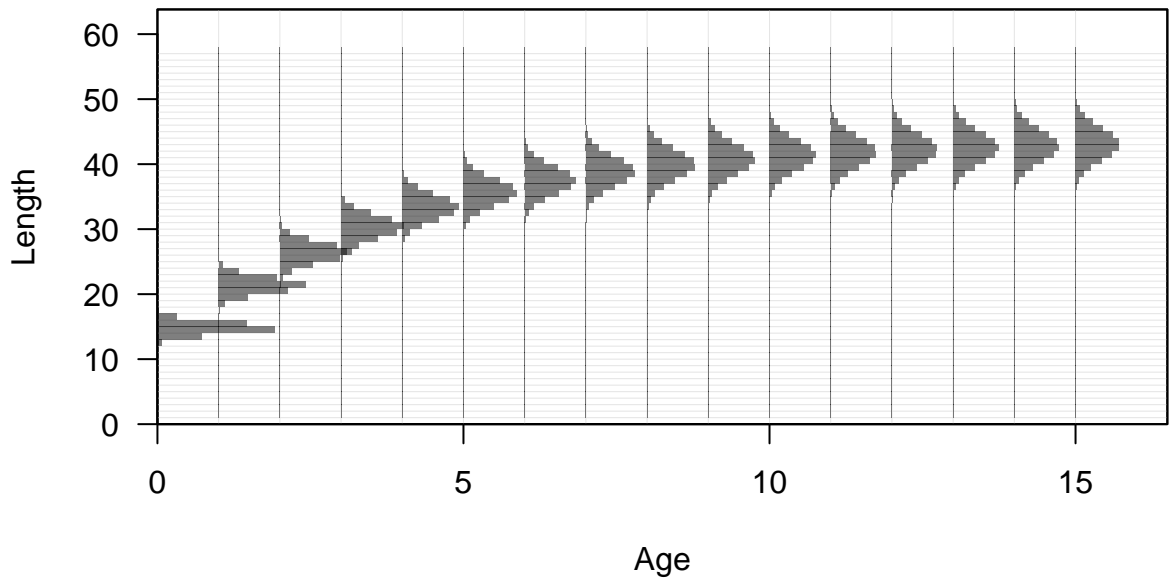


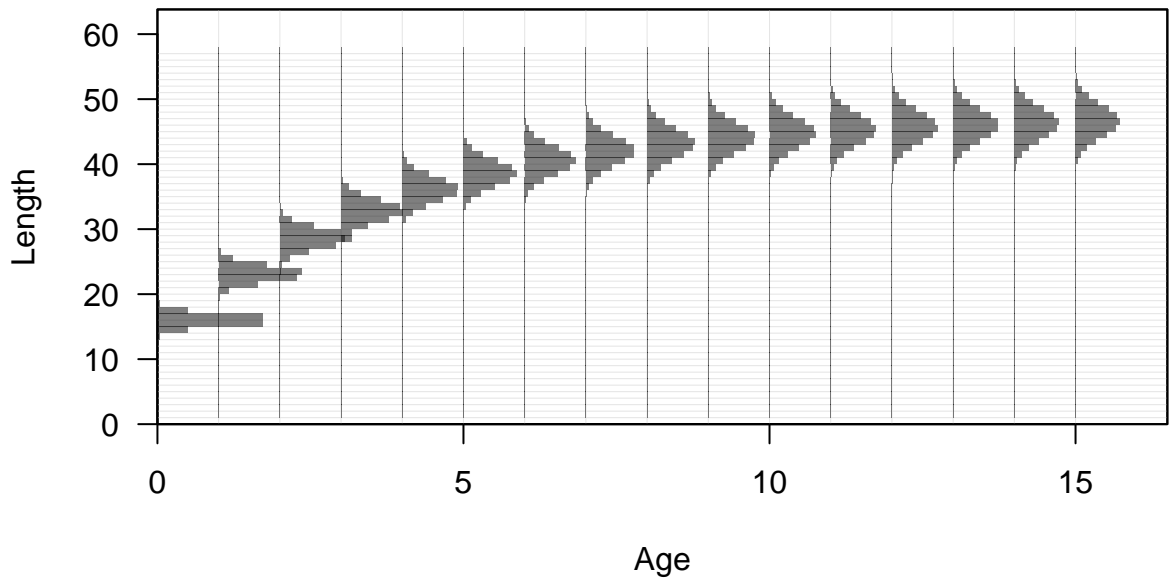


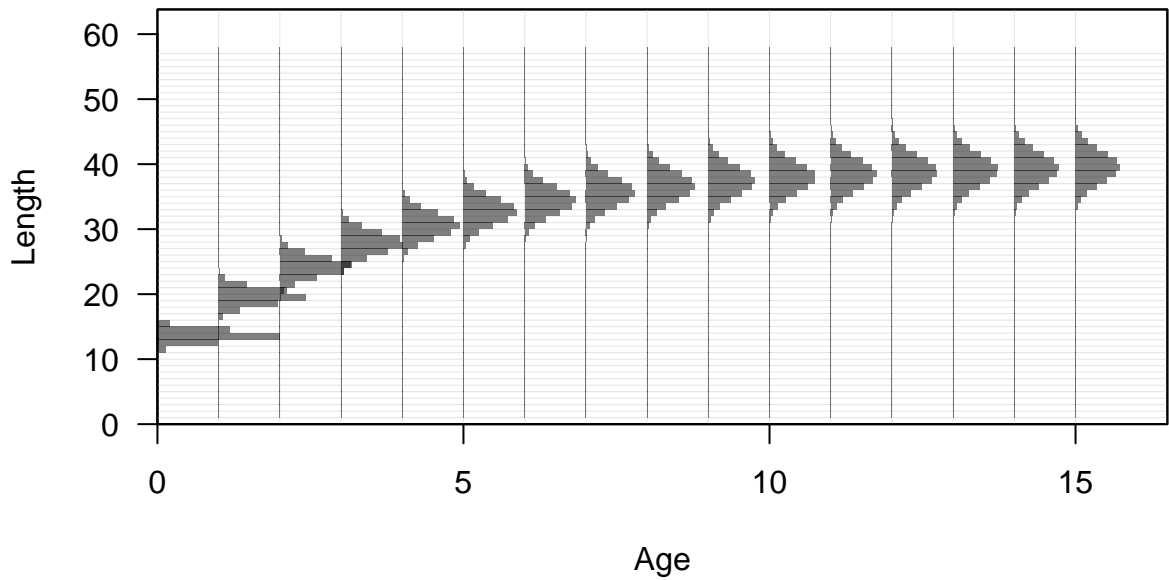


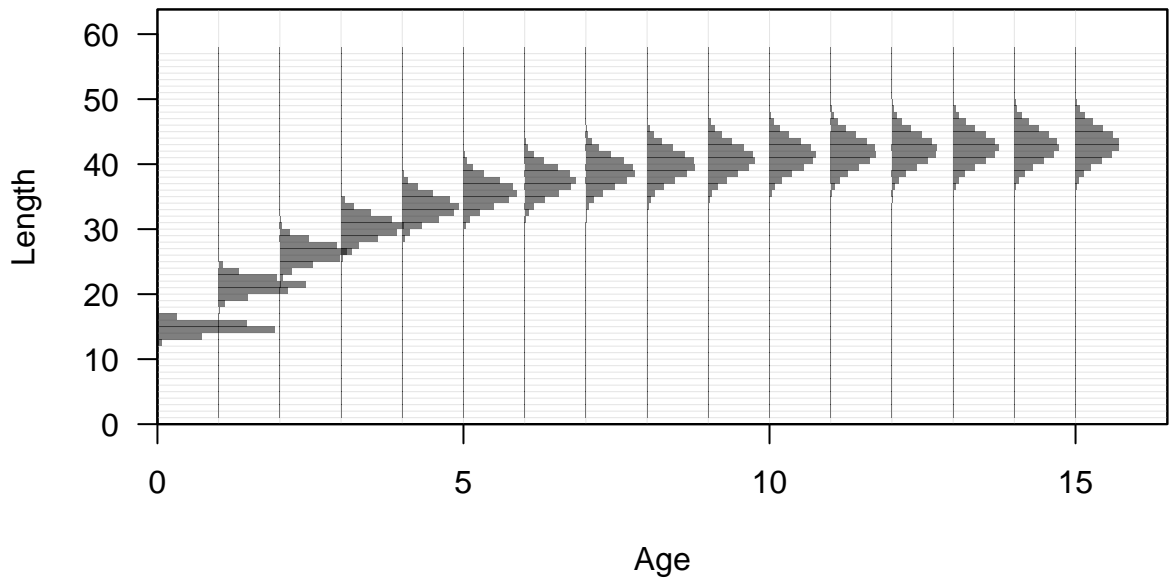


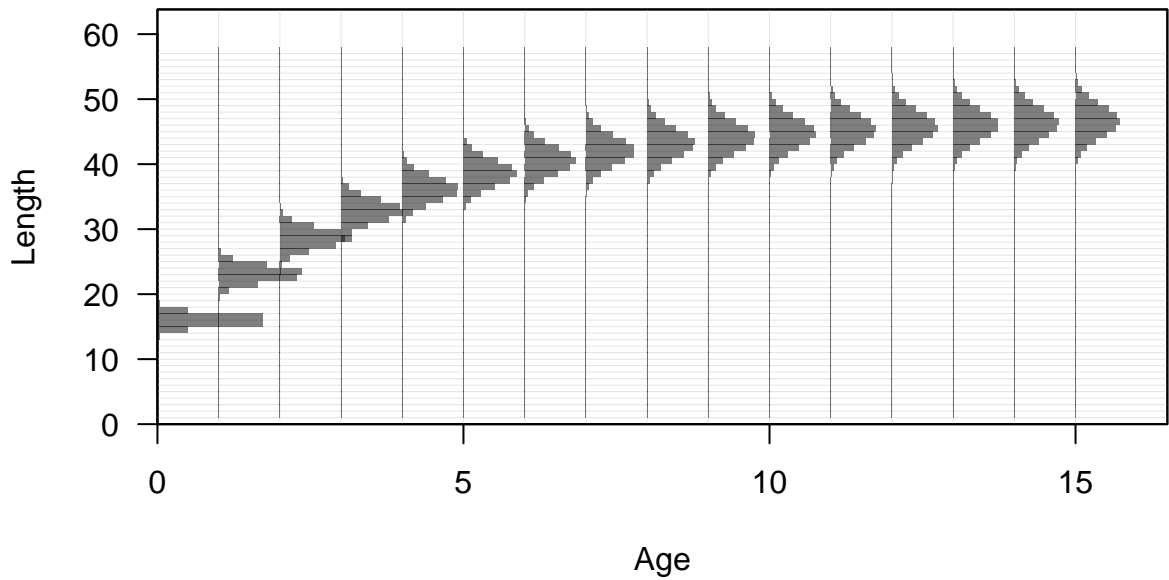






















Fecundity



Fecundity



Spawning output

3

2

1

0

0

10

20

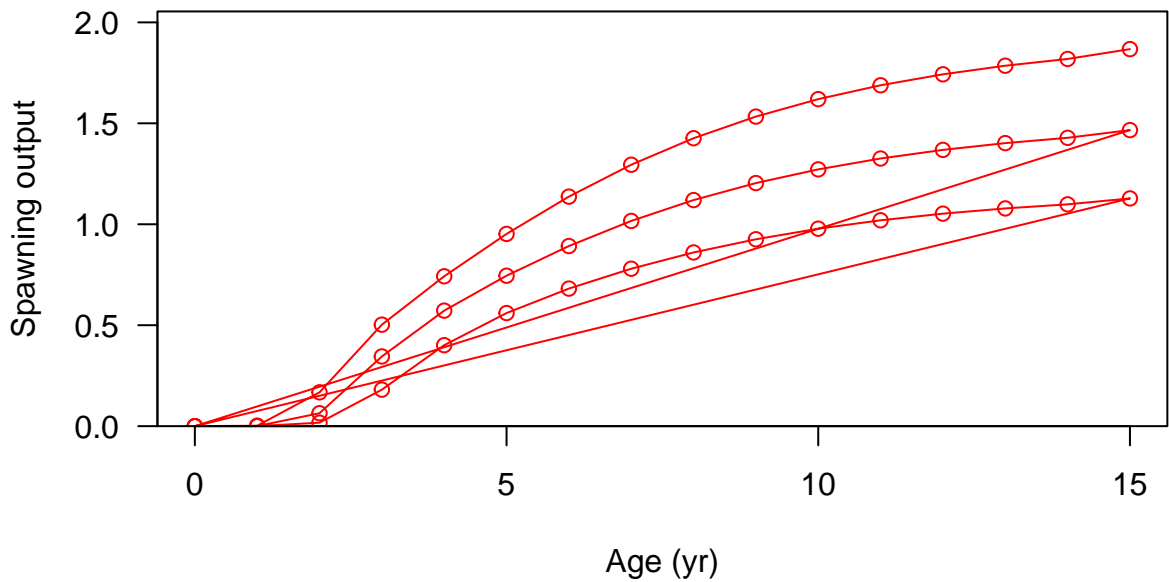
30

40

50

Length (cm)







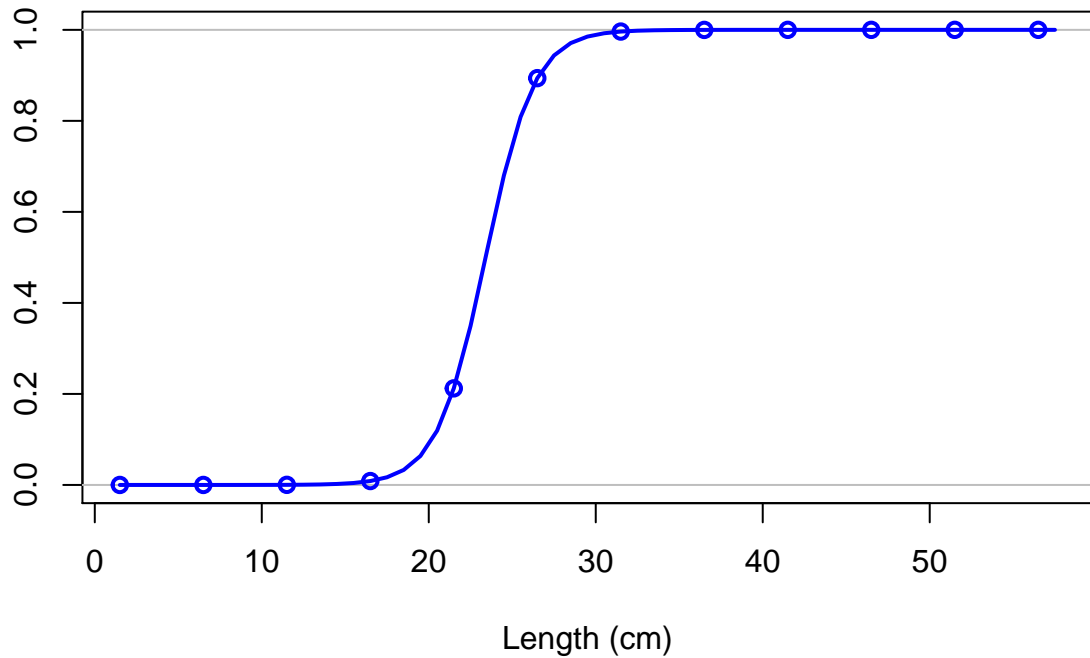
Hermaphroditism transition rate



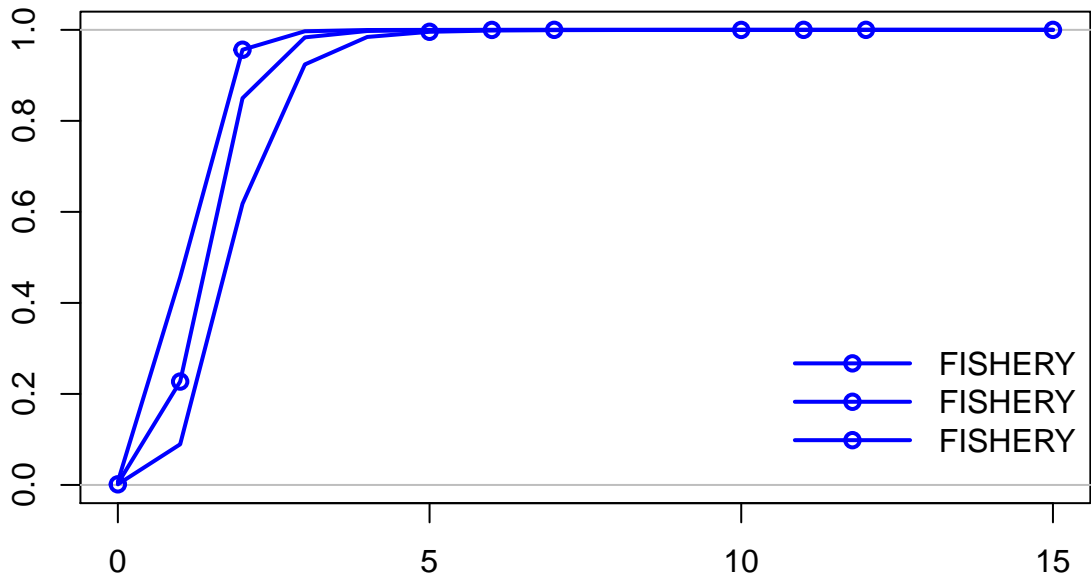
Fraction females by age at equilibrium



Selectivity

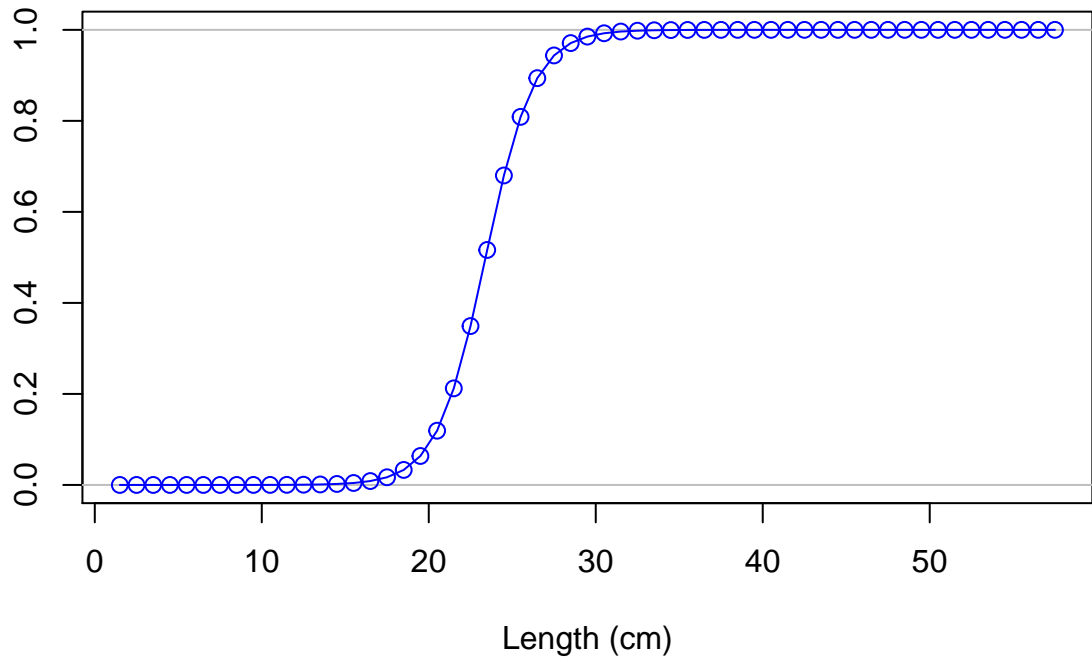


Selectivity

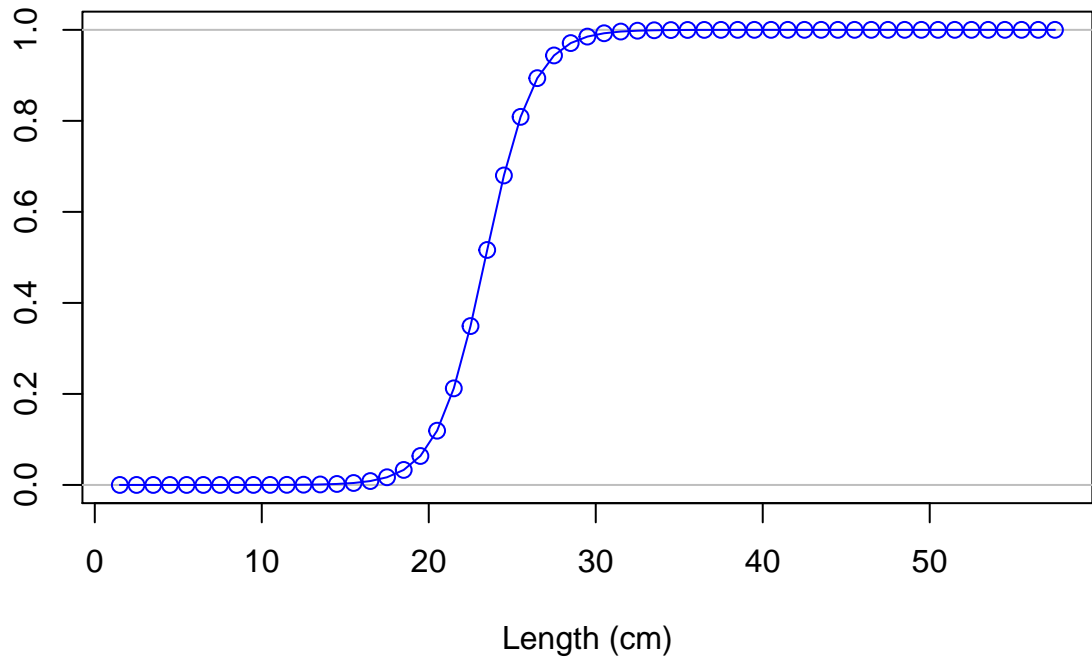


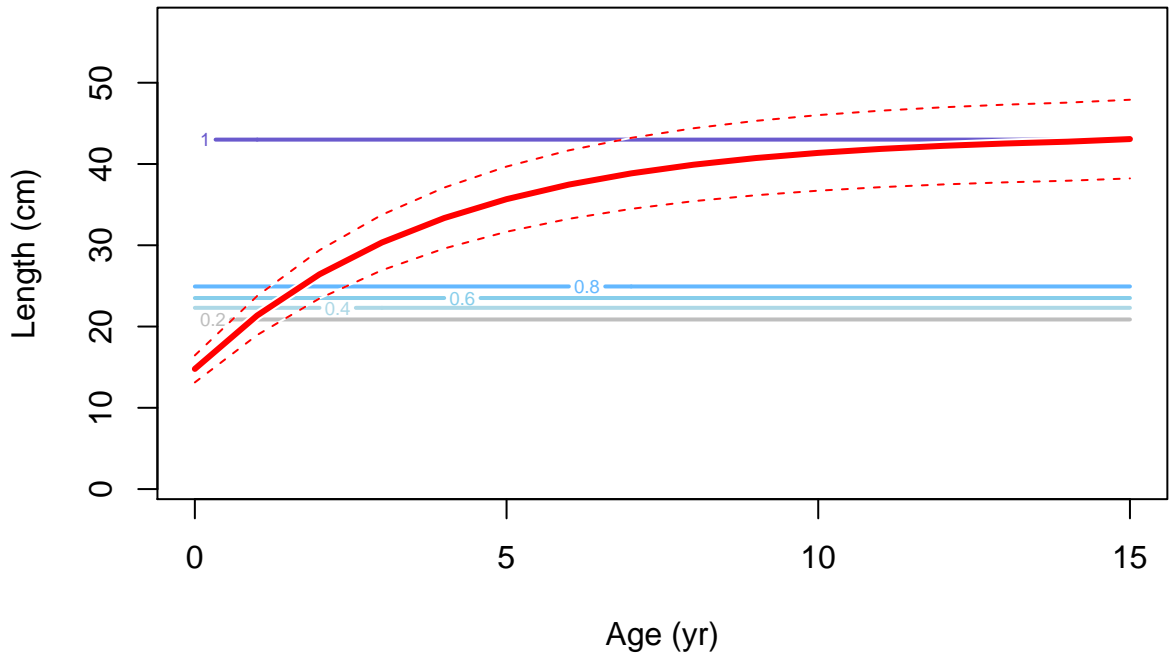
Age (yr)

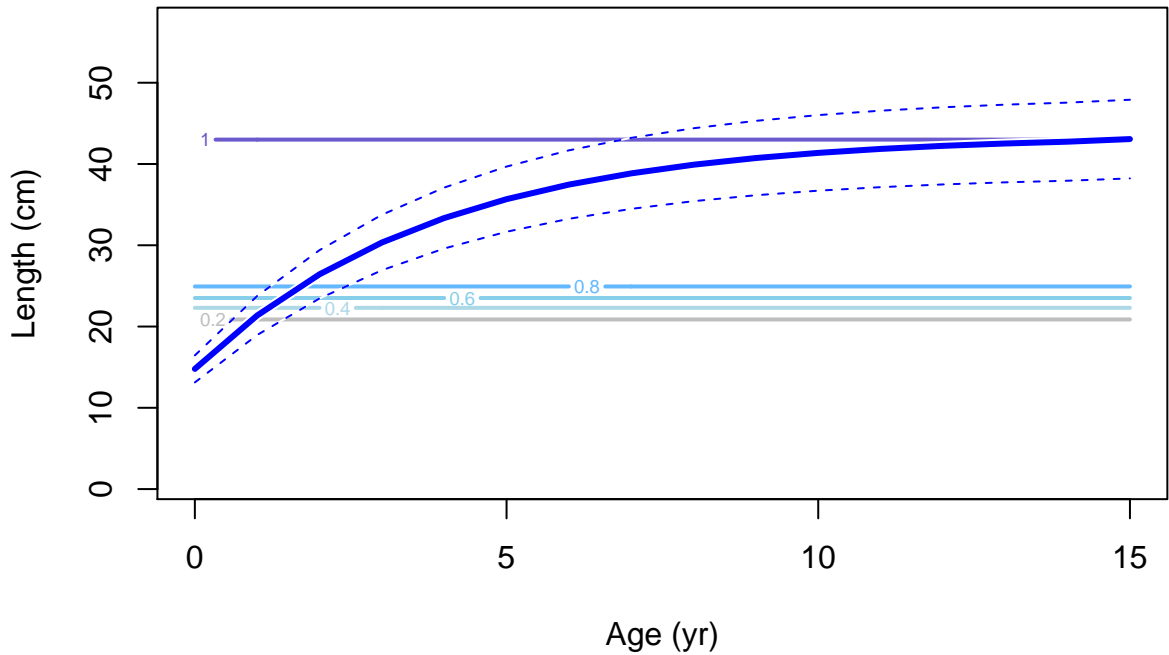
Selectivity



Selectivity

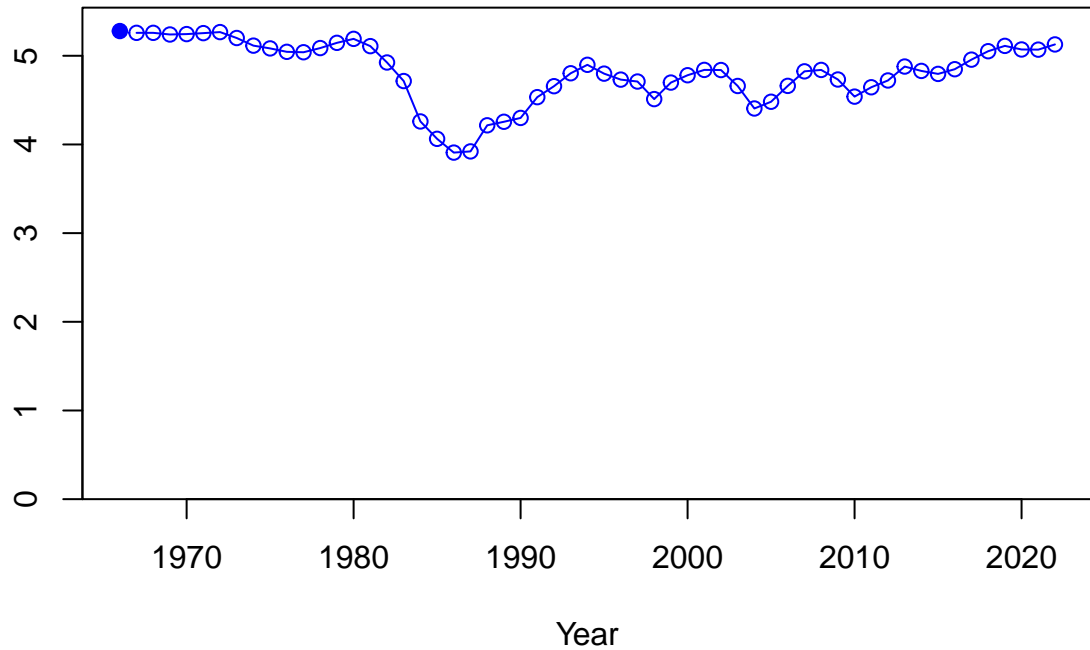


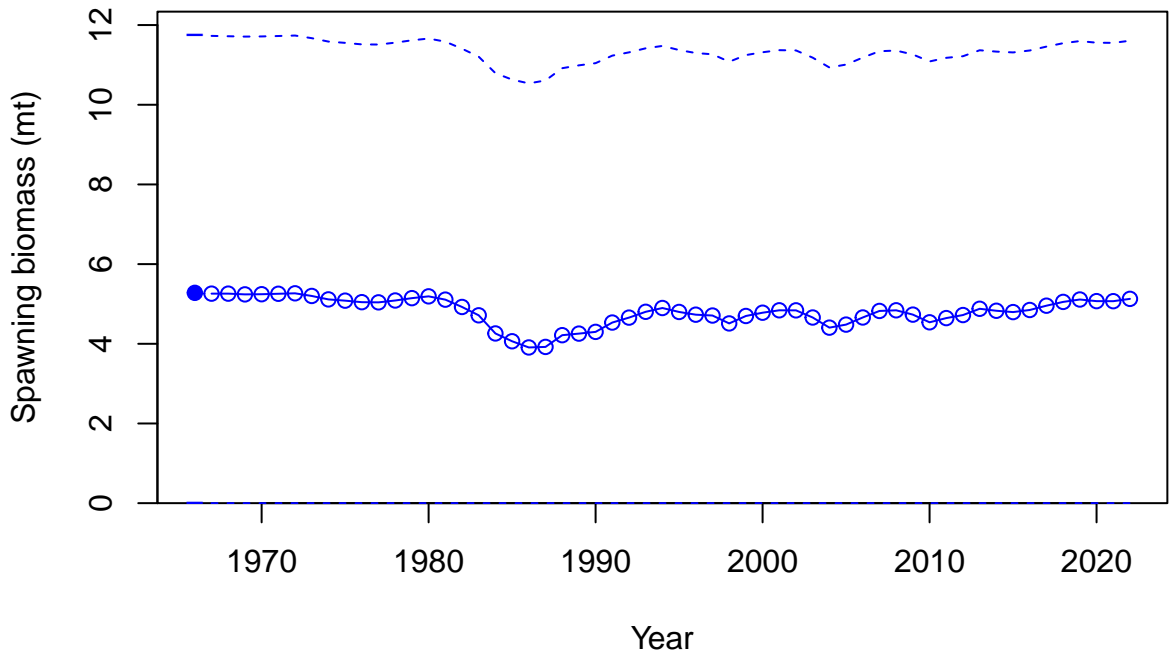




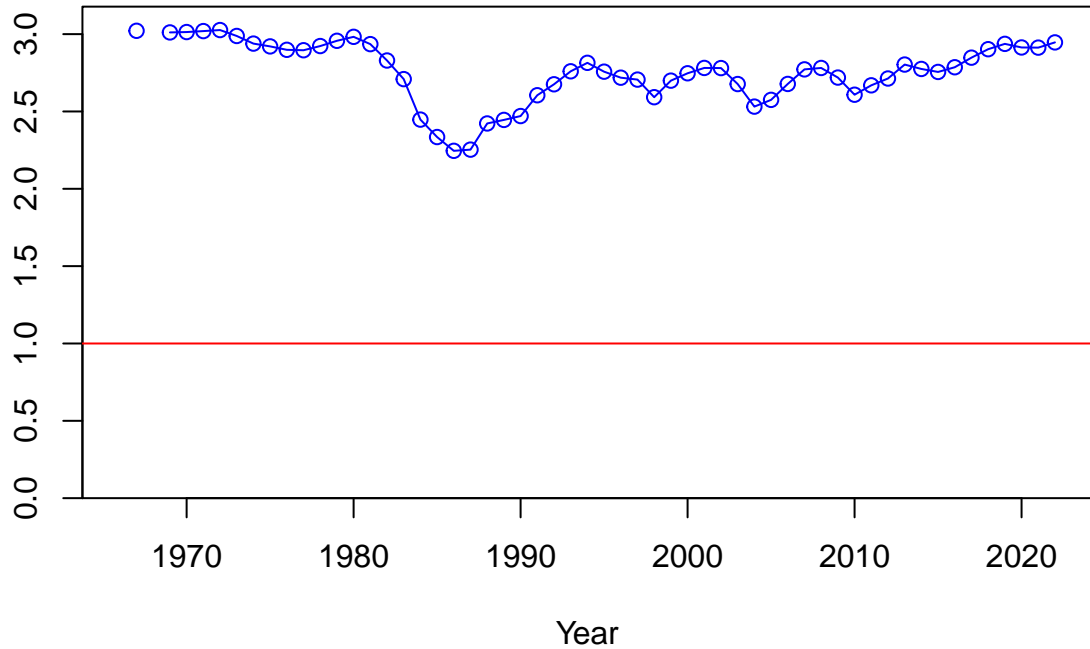


Spawning biomass (mt)

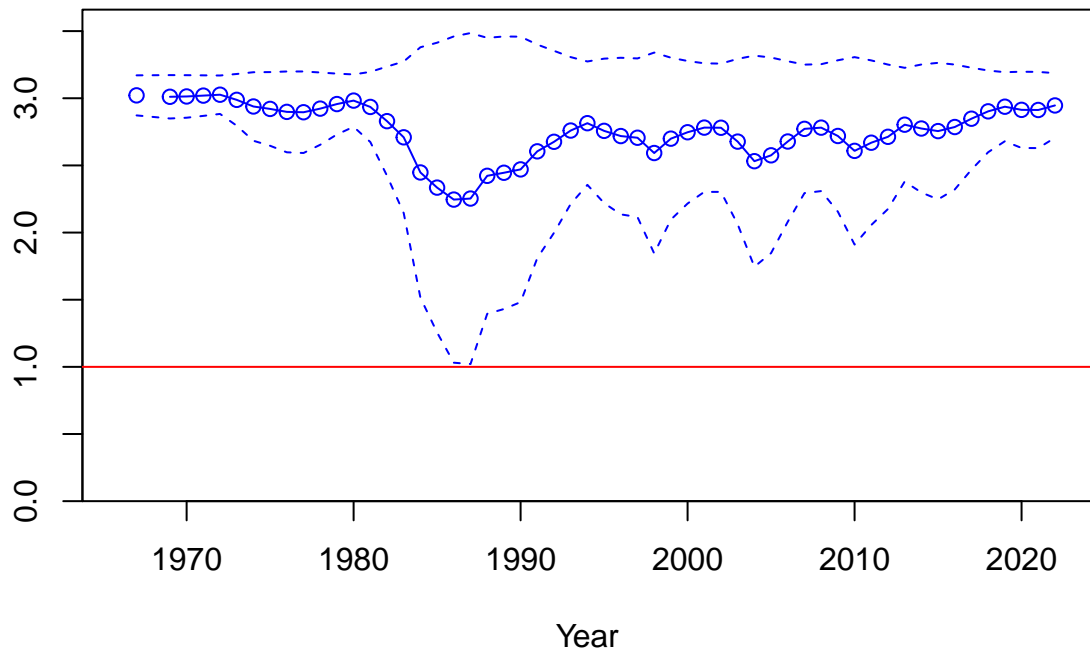


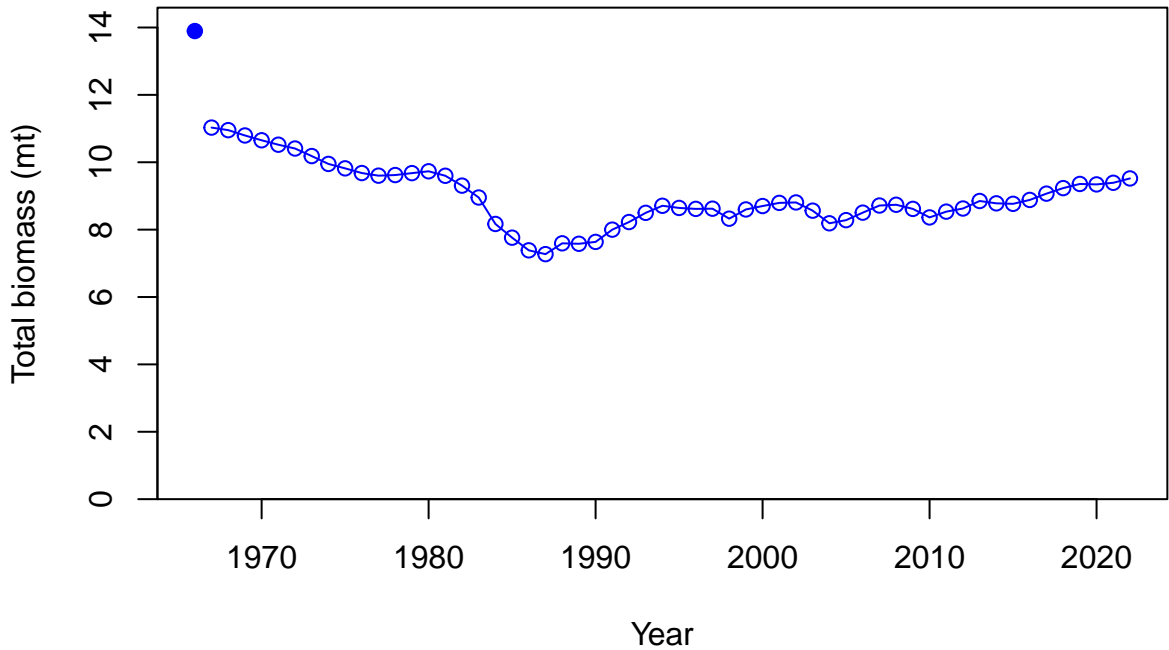


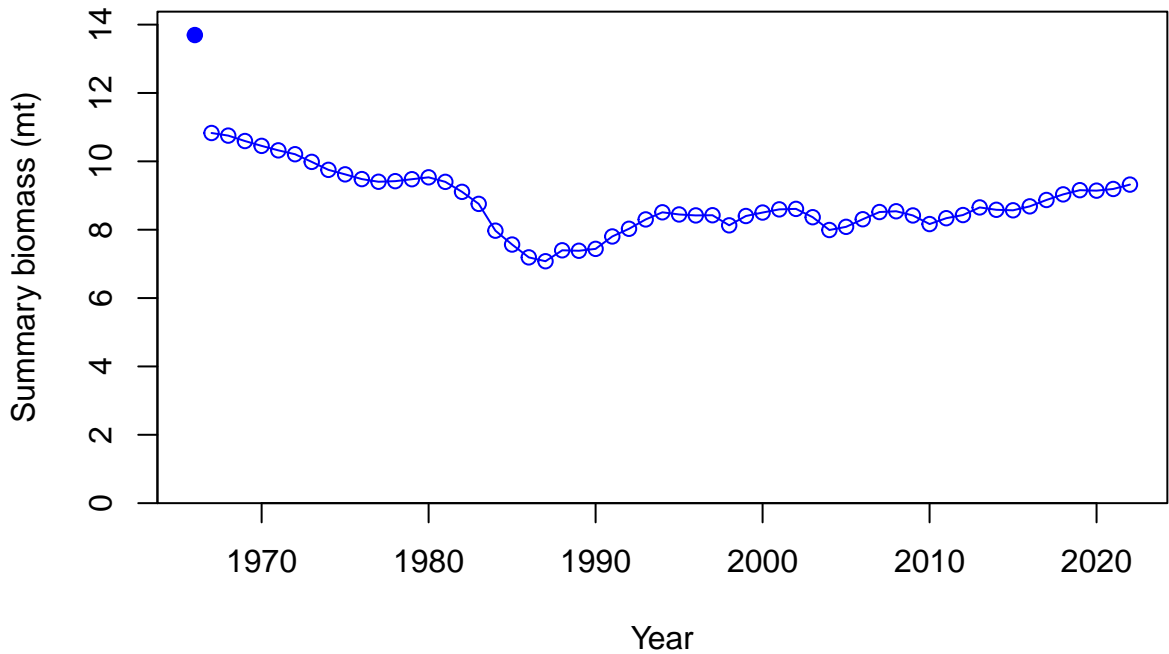
Relative spawning biomass:  $B/B_{MSY}$

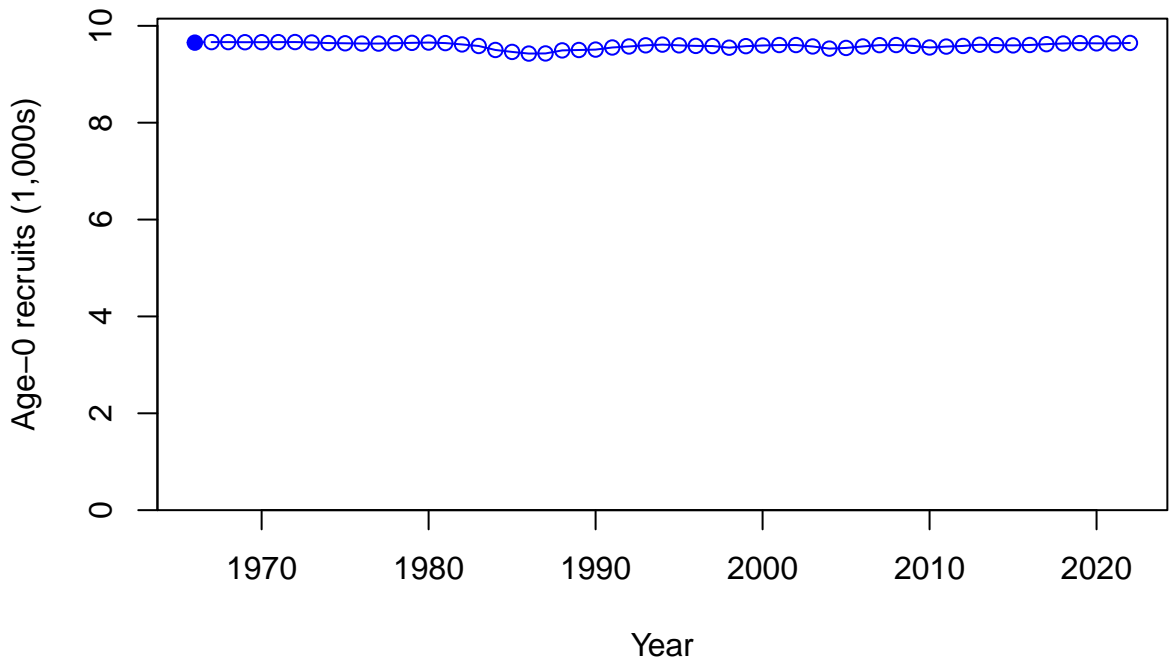


Relative spawning biomass:  $B/B_{MSY}$

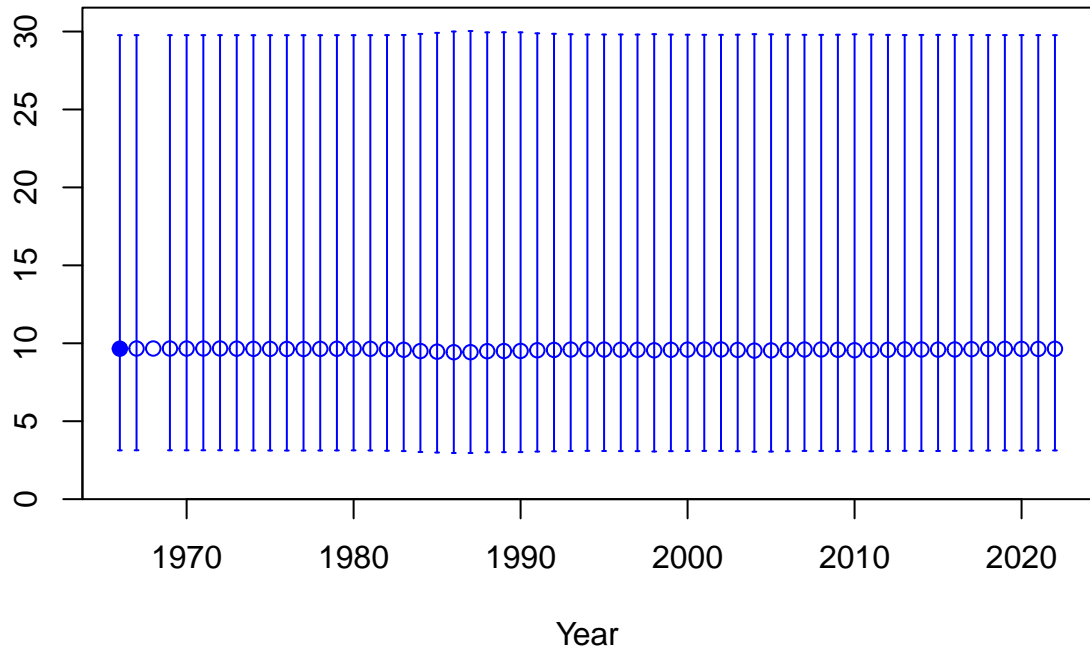






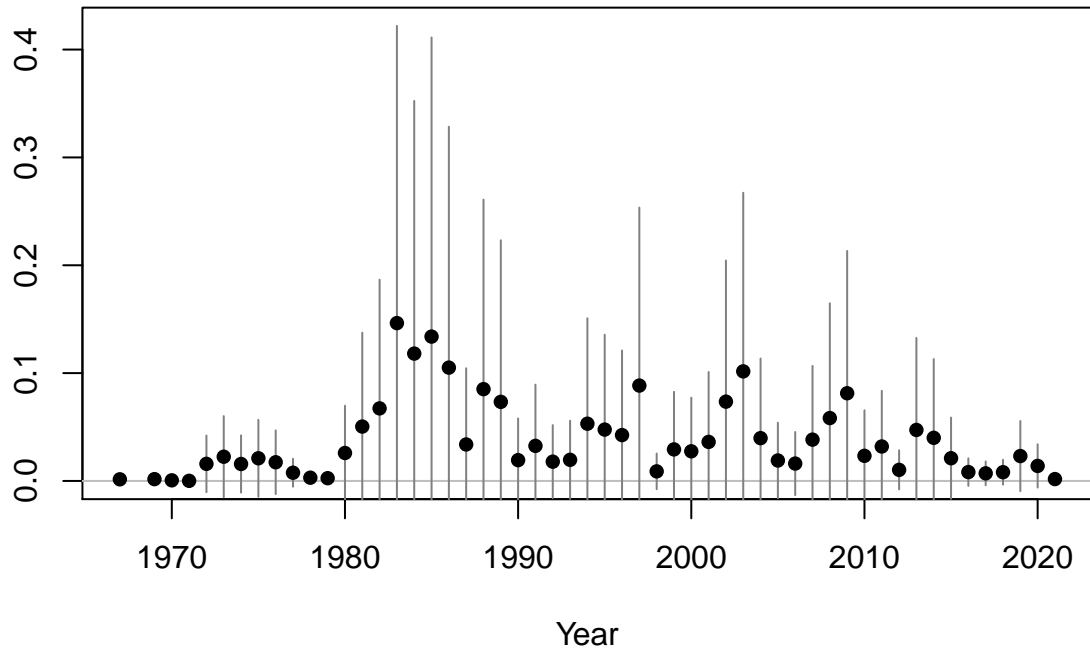


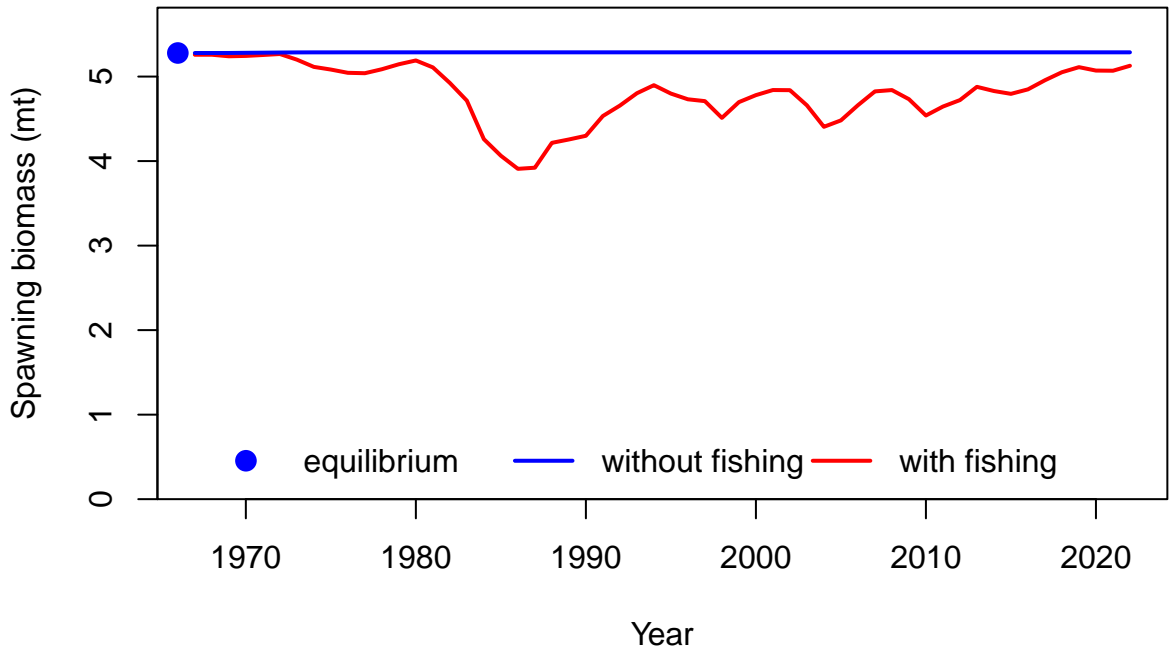
Age-0 recruits (1,000s)

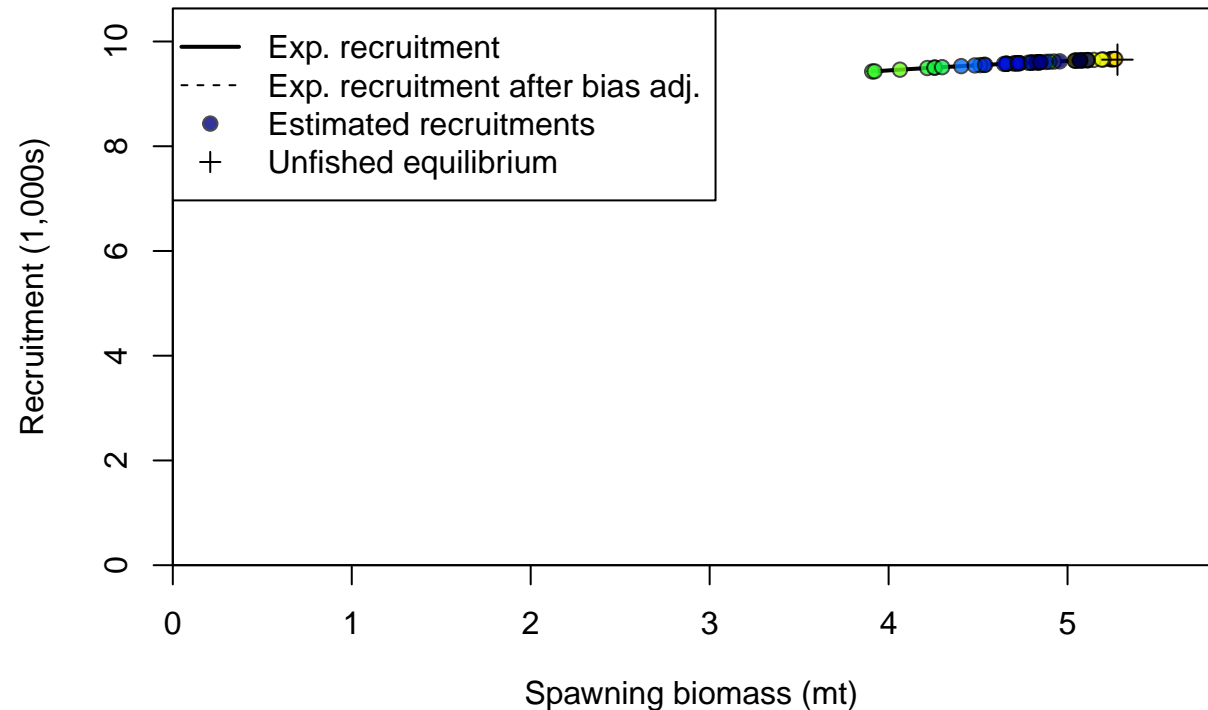


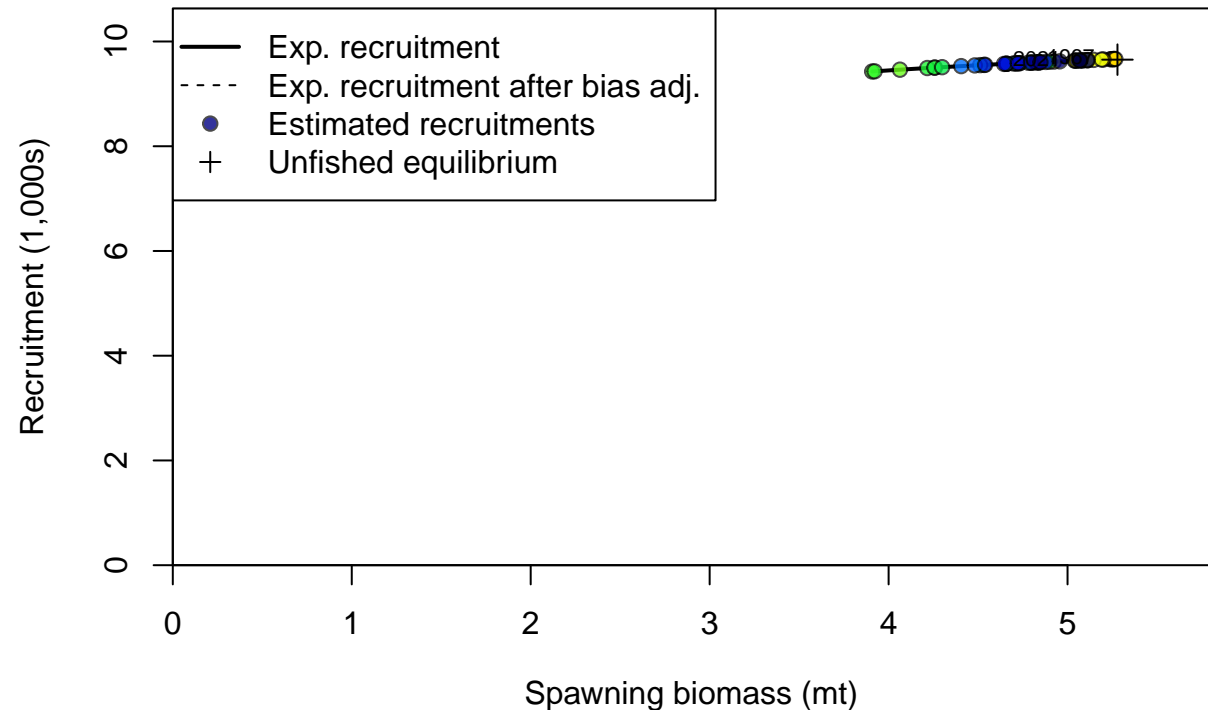


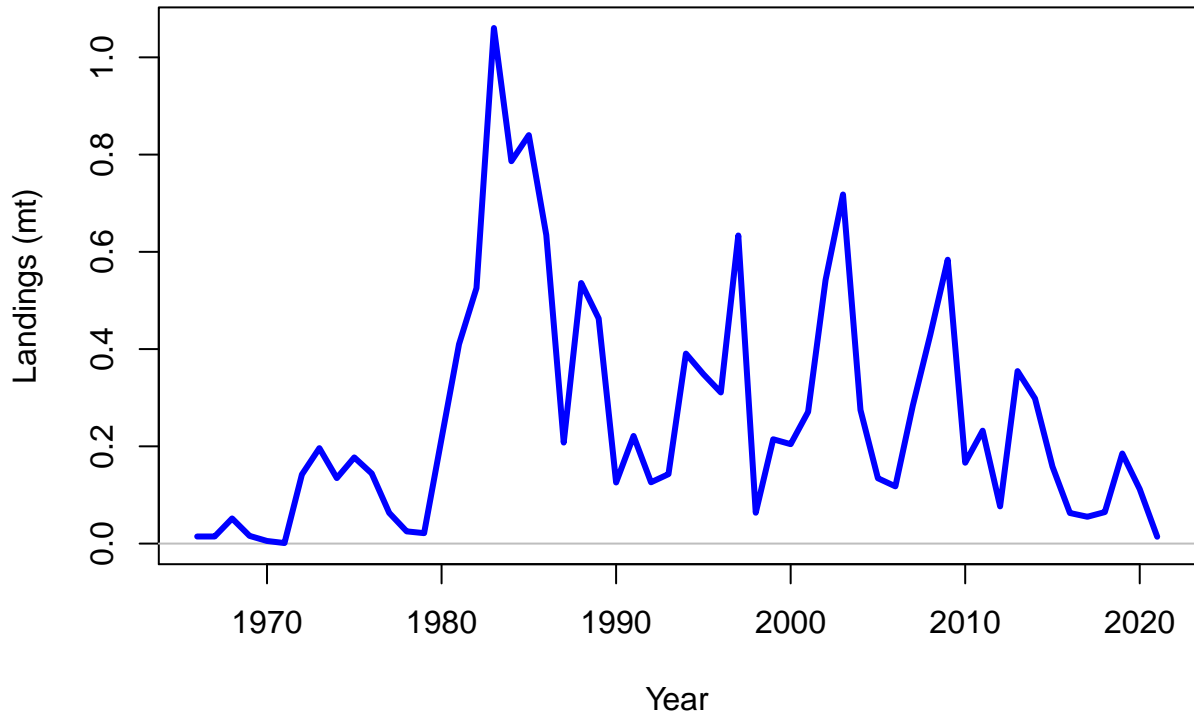
Summary Fishing Mortality

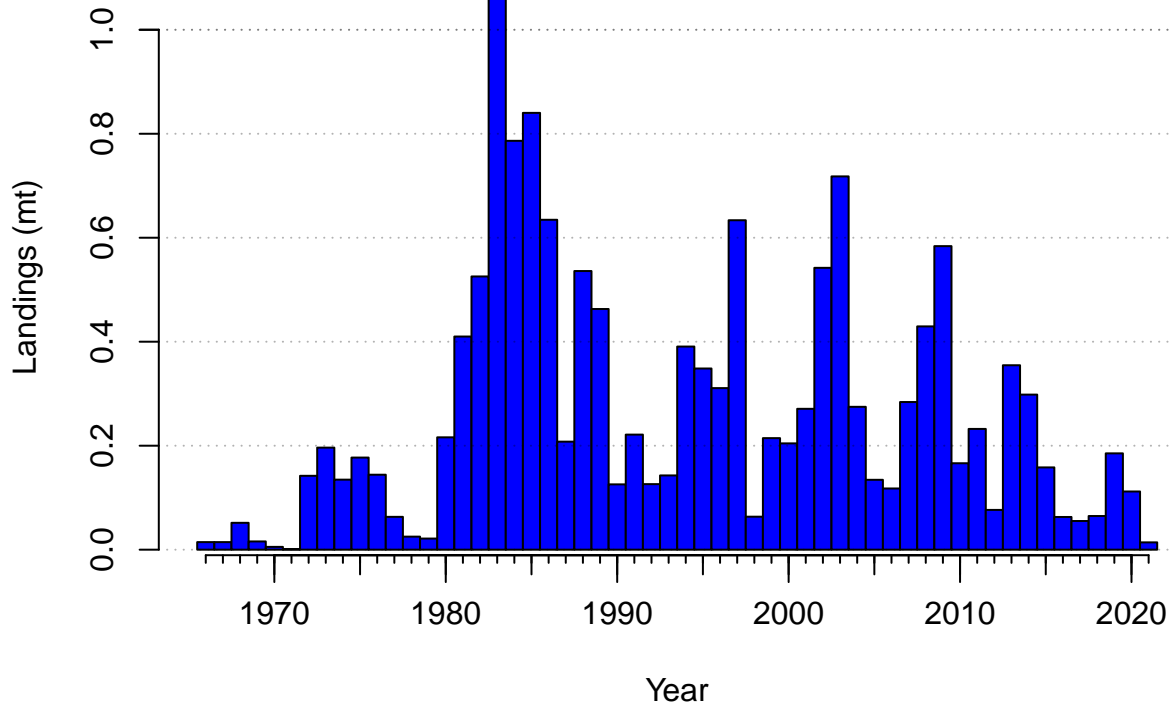


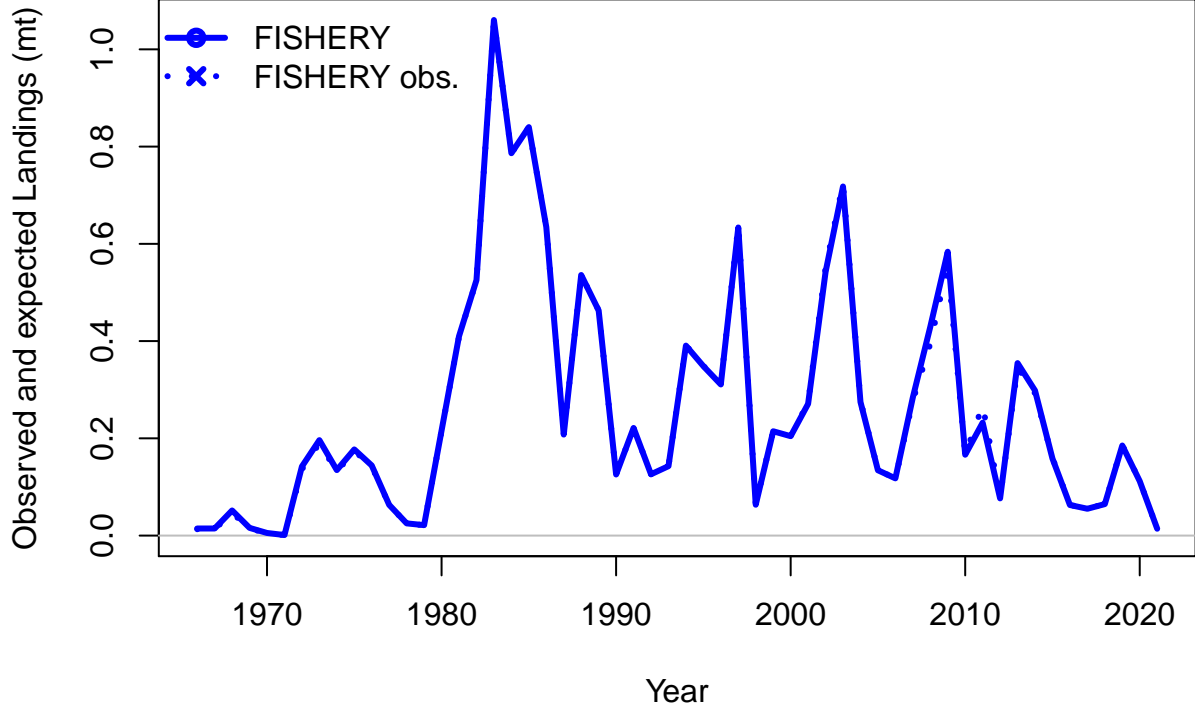


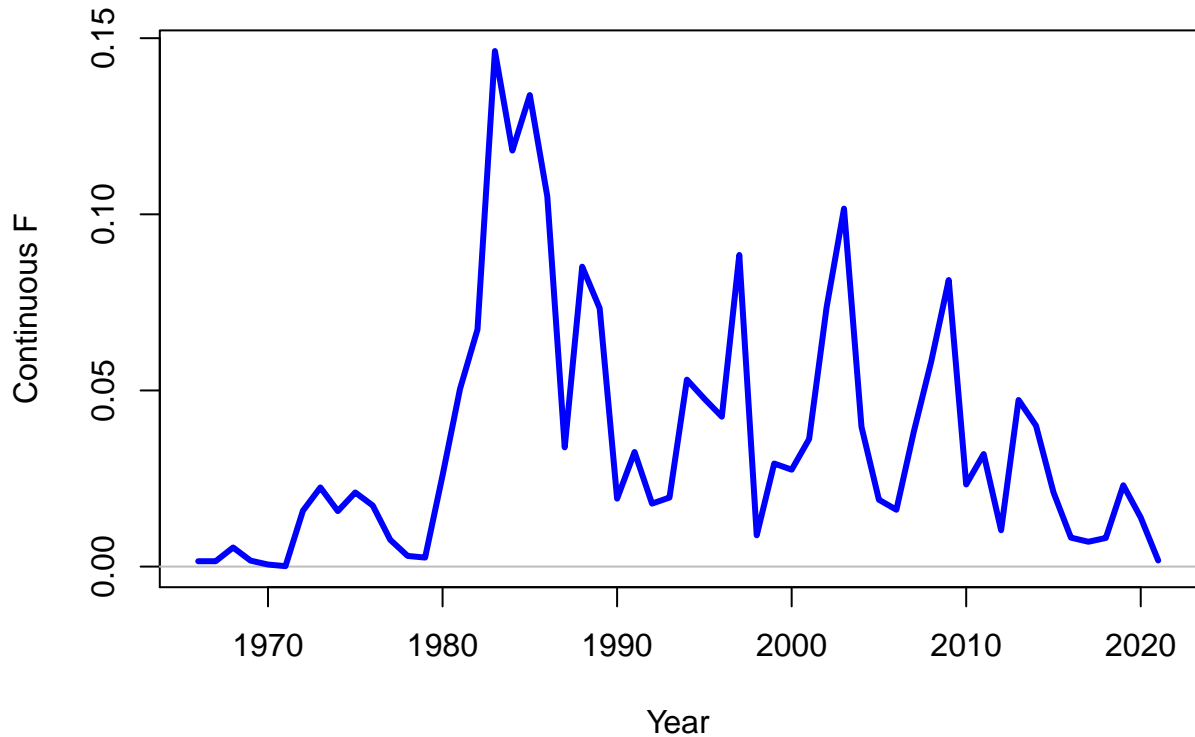






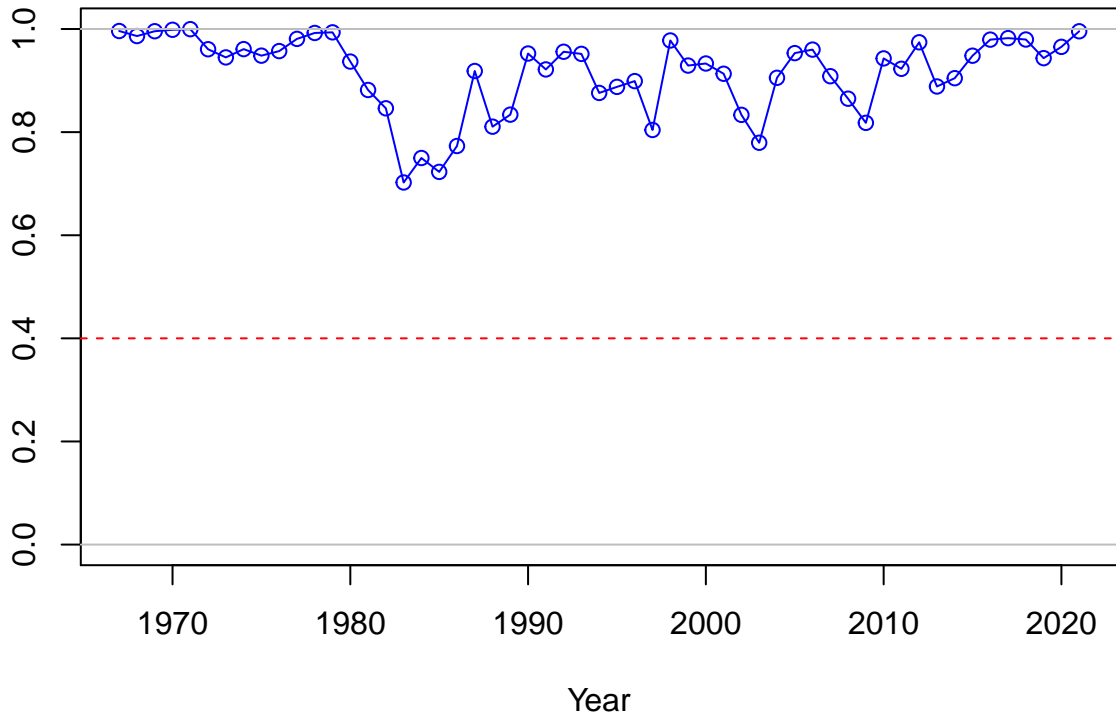




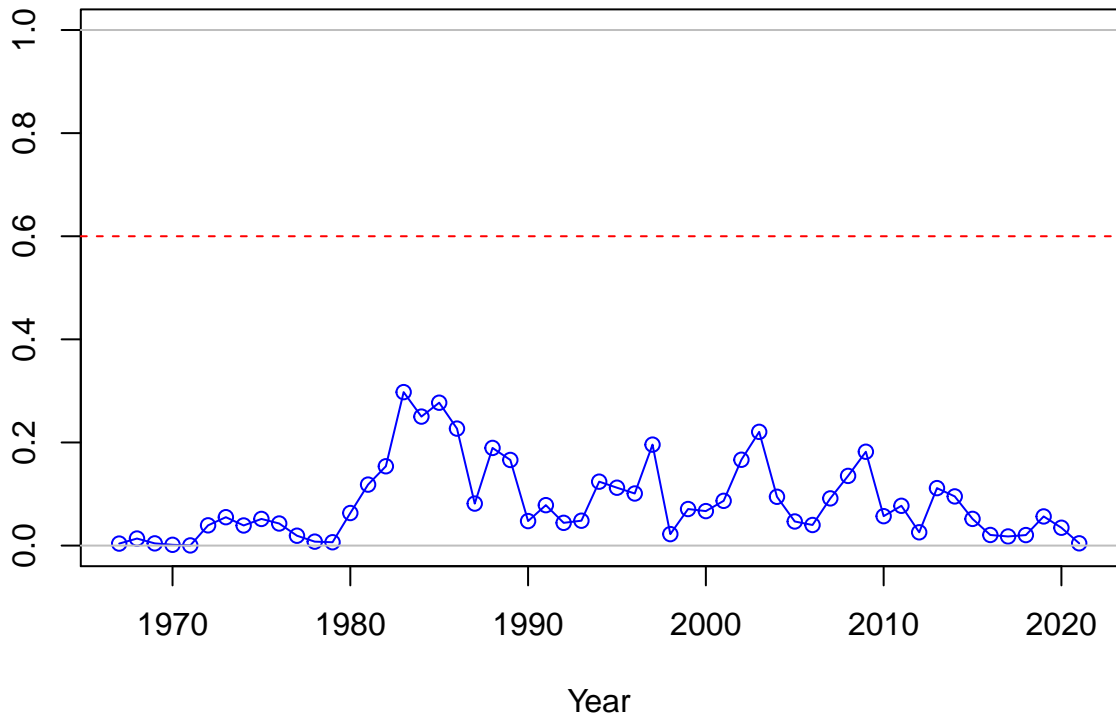




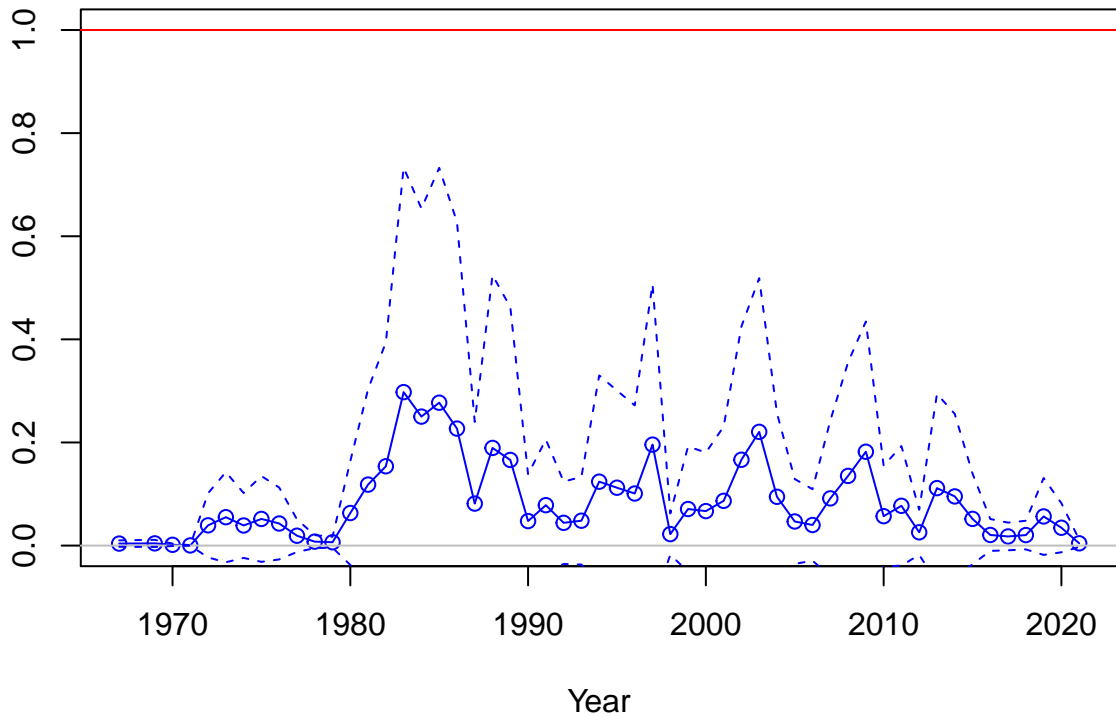
SPR



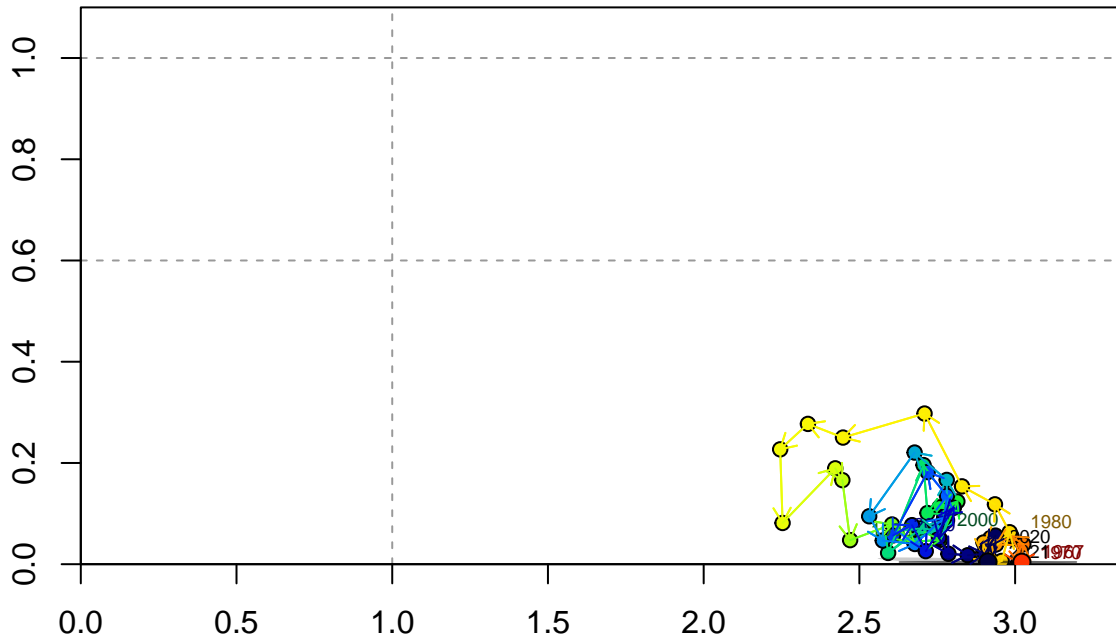
1-SPR



Fishing intensity: 1-SPR

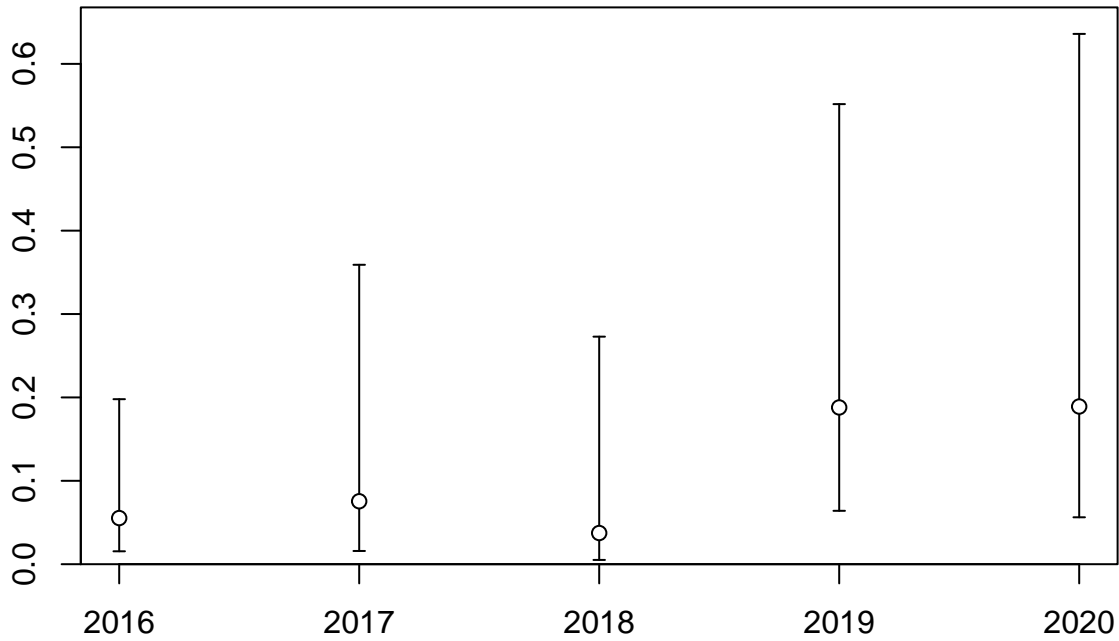


Fishing intensity: 1-SPR



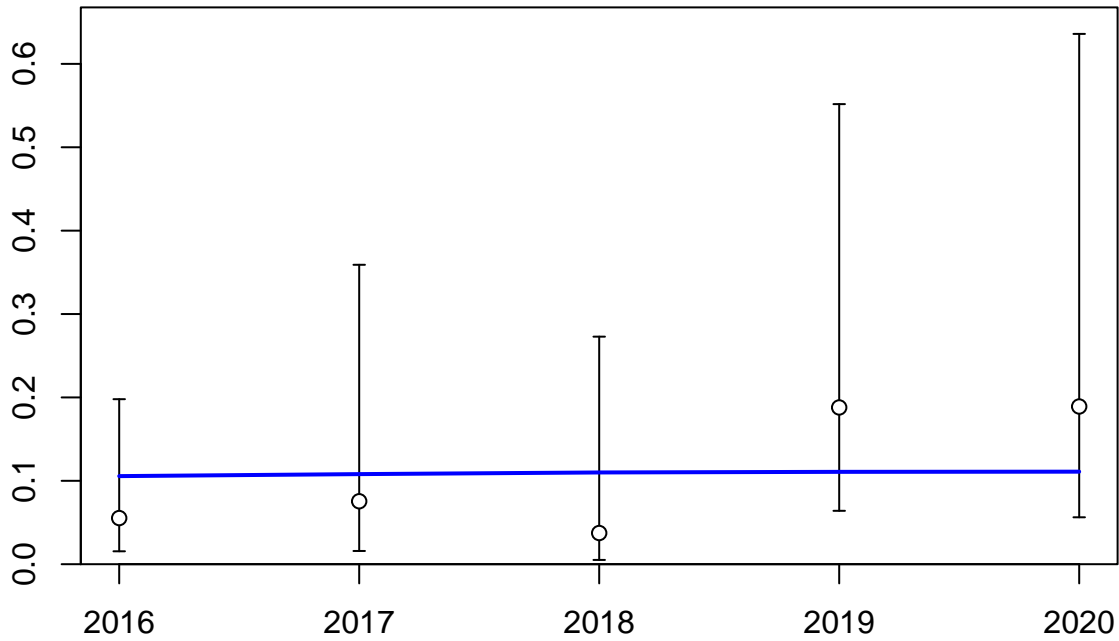
Relative spawning output: B/B\_MSY

Index

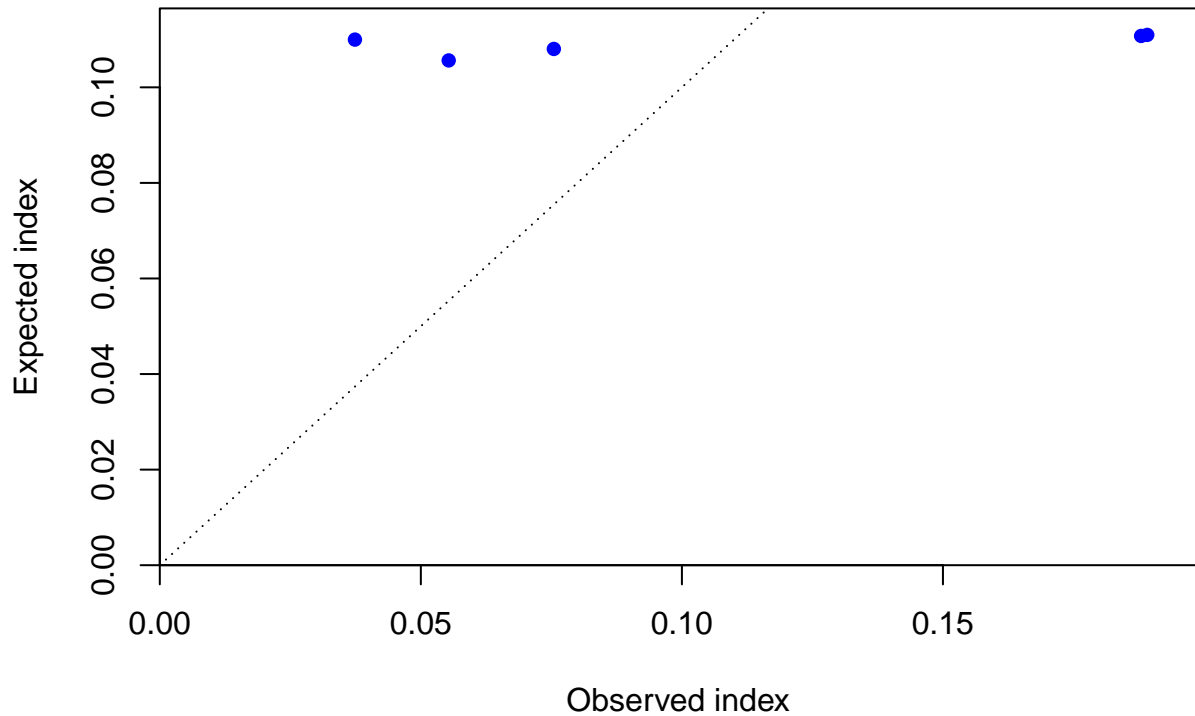


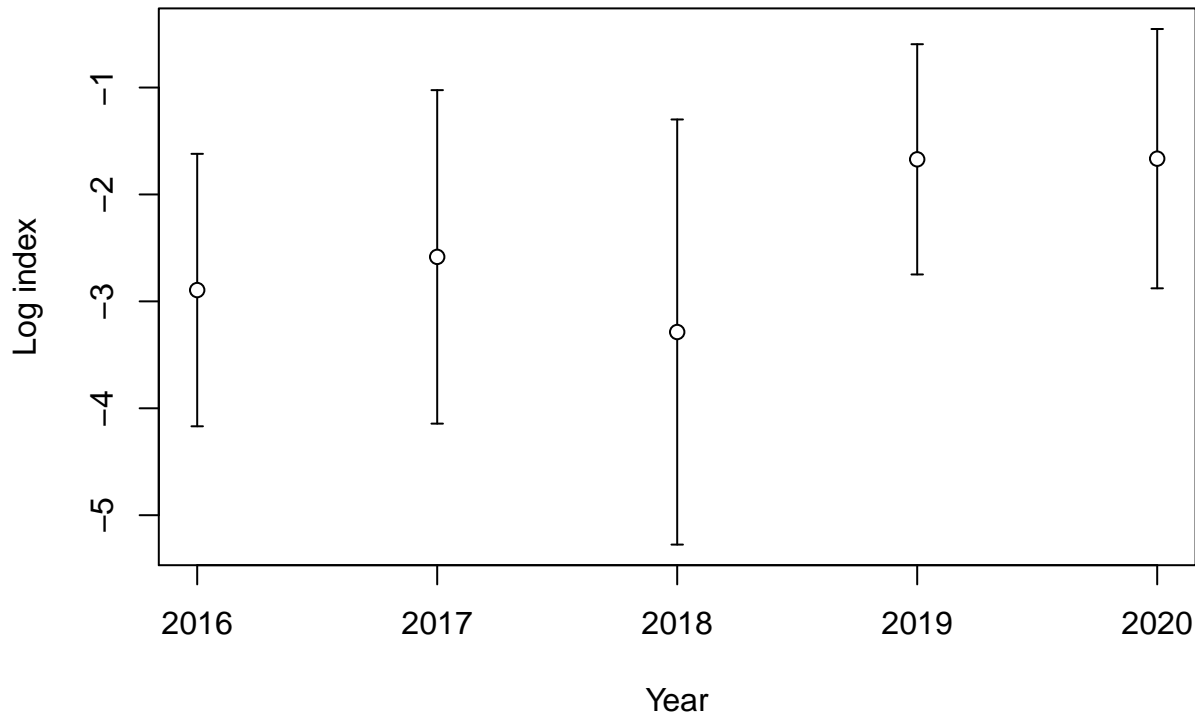
Year

Index

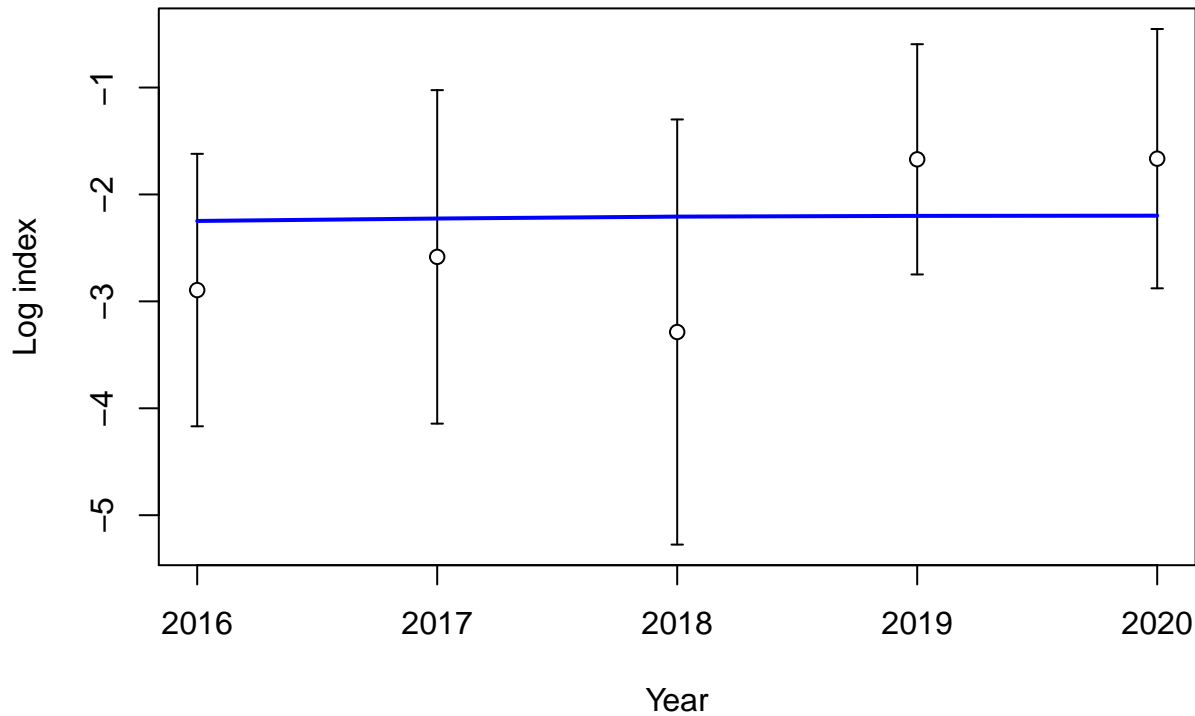


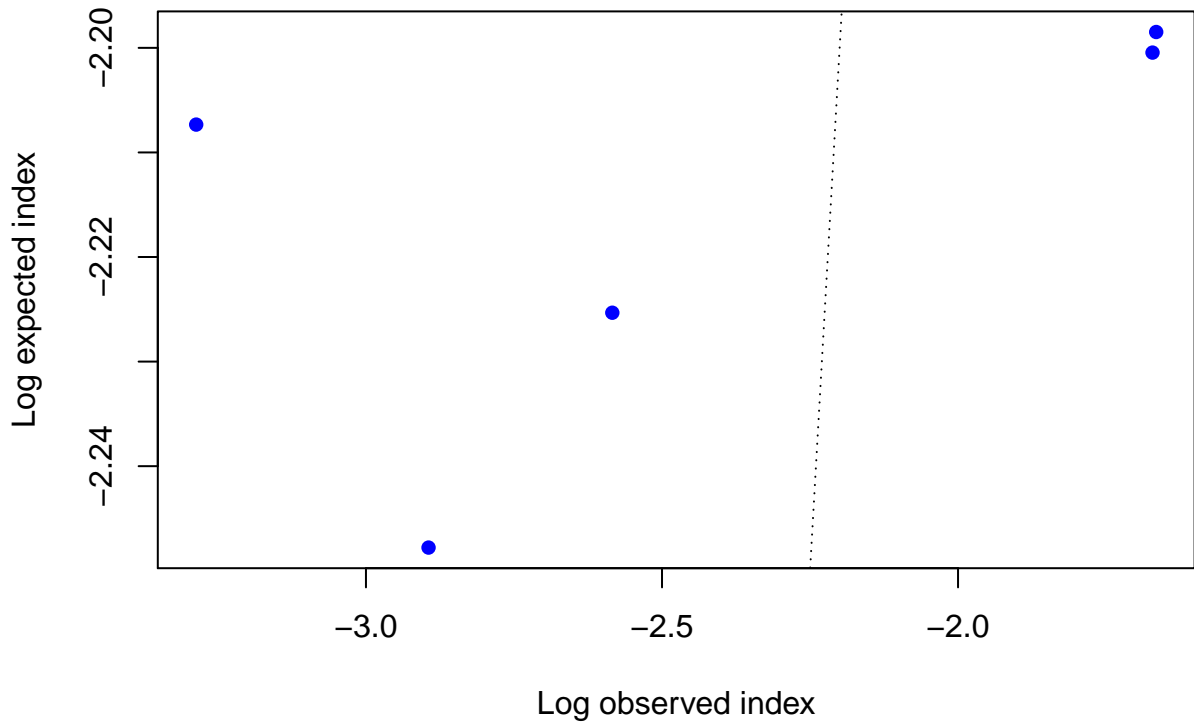
Year



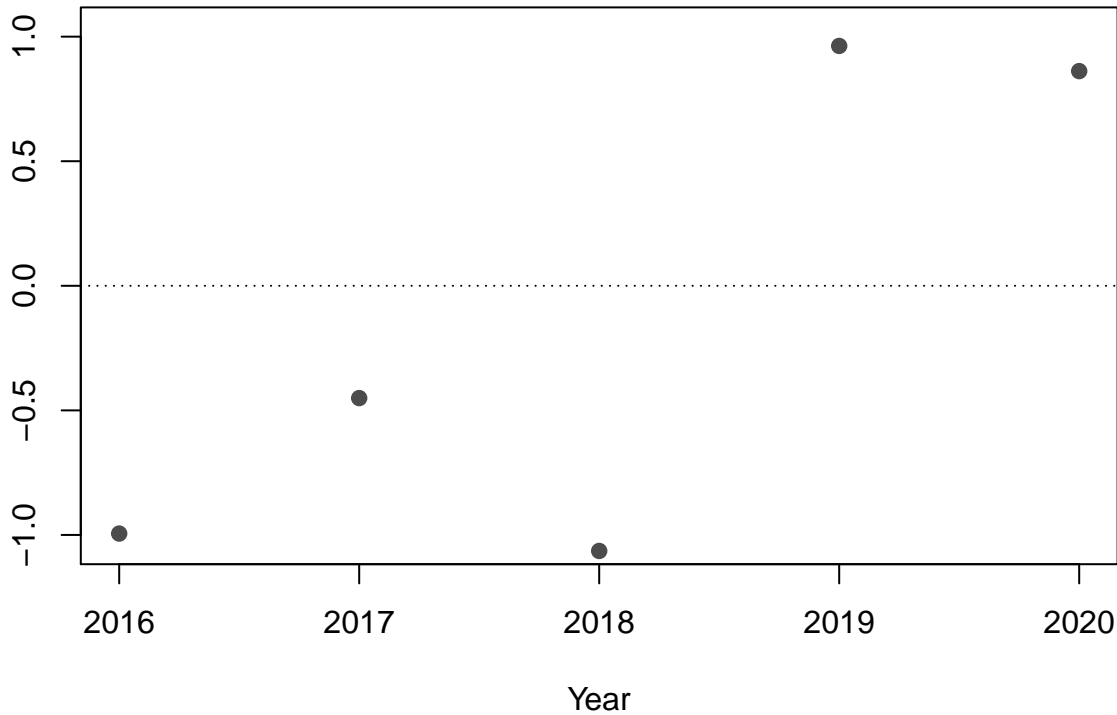




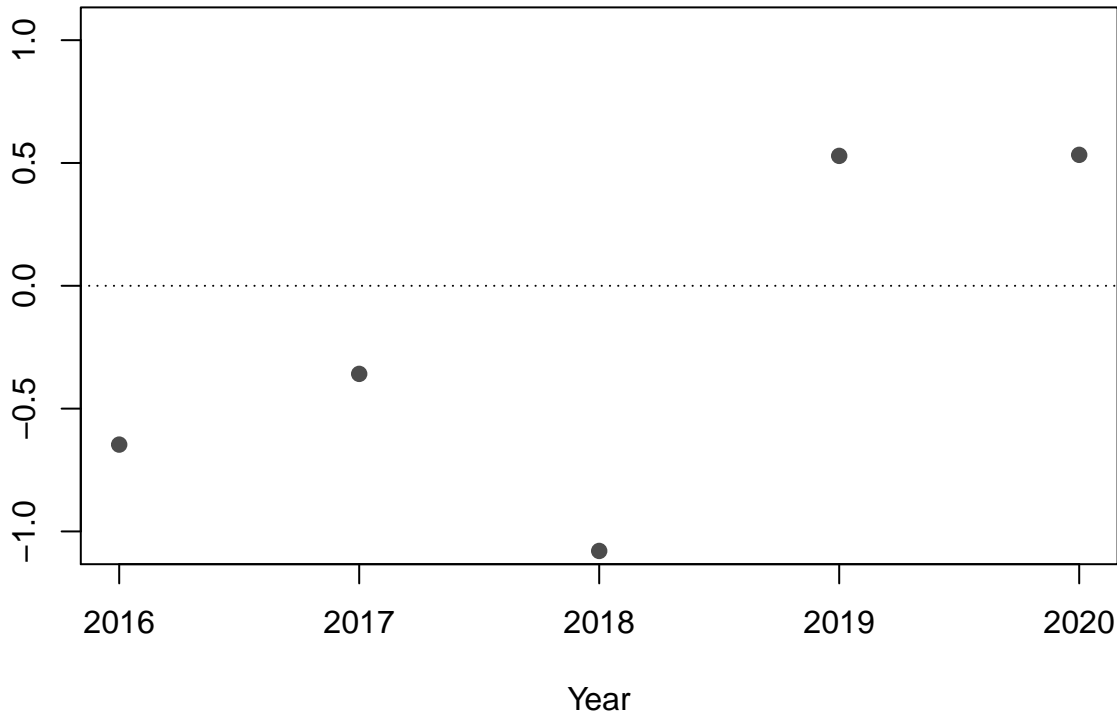


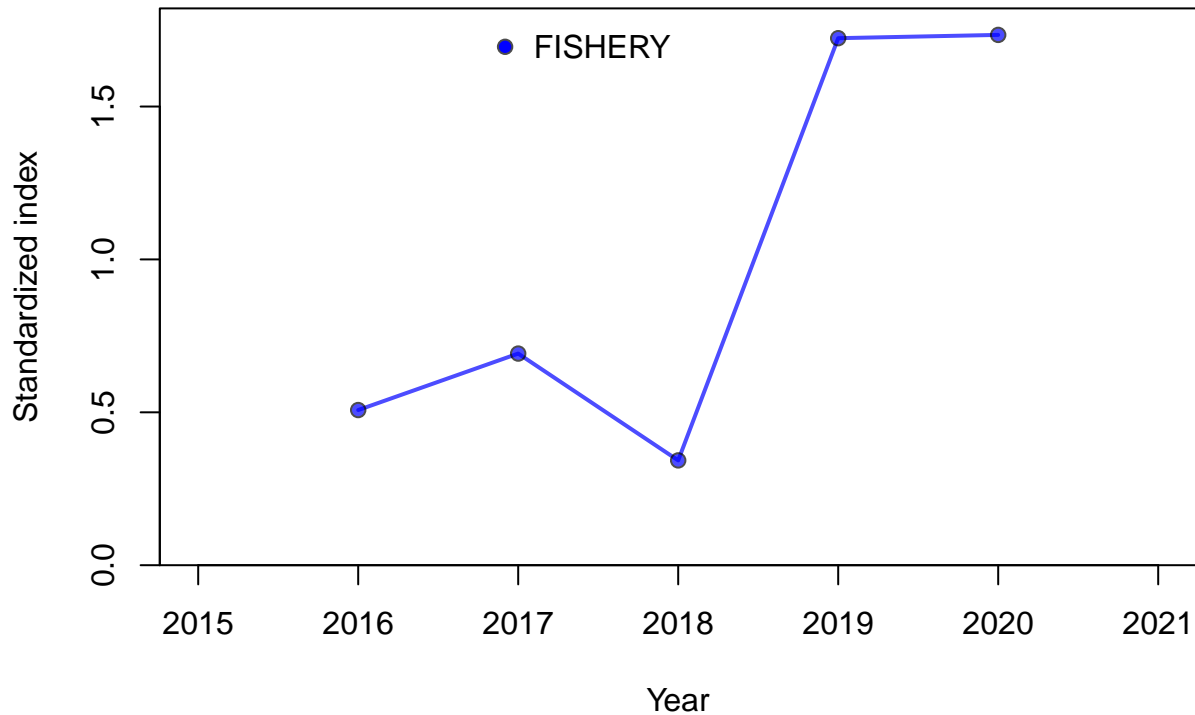


Residual

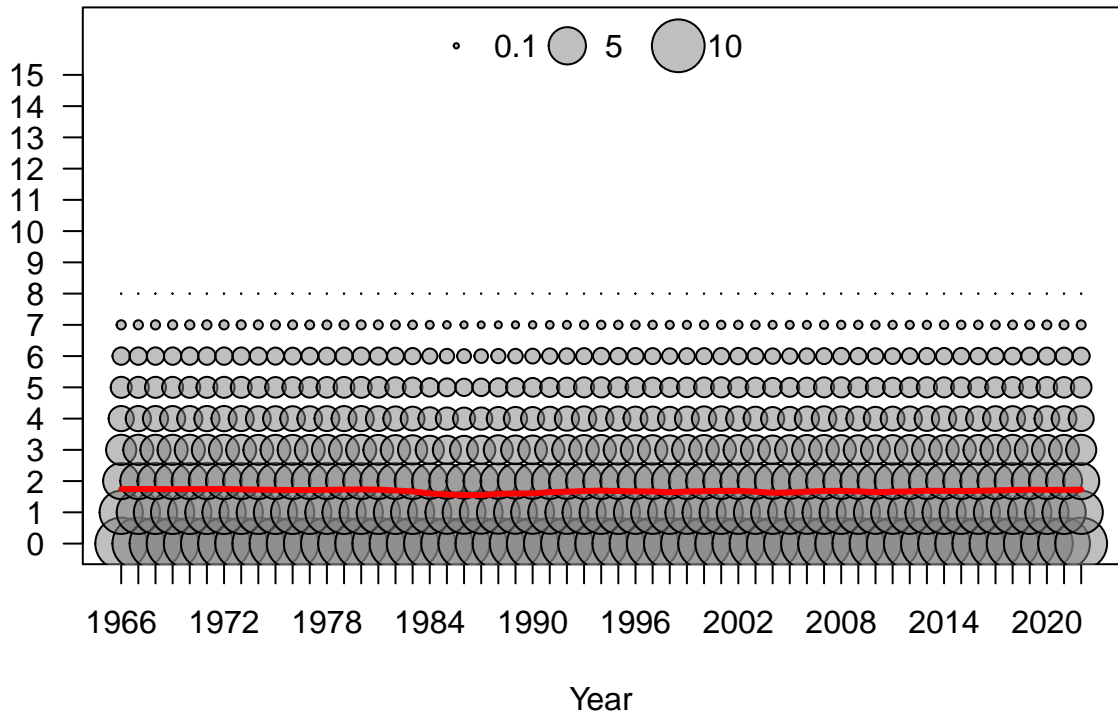


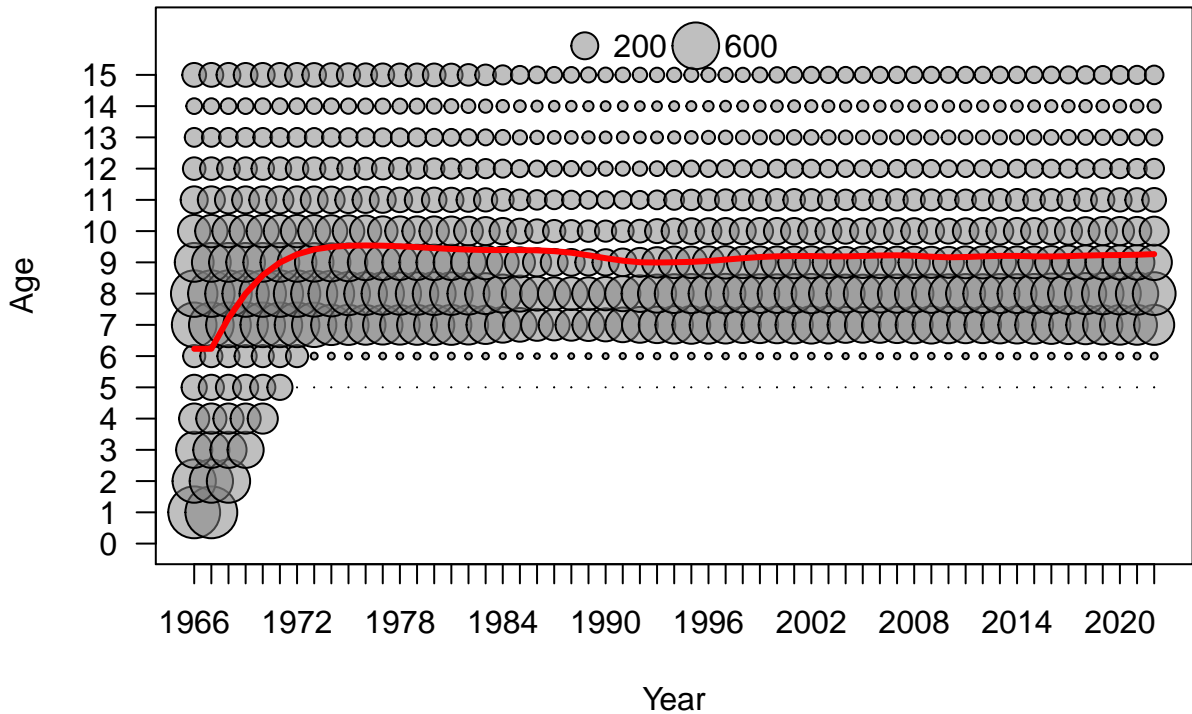
Deviation

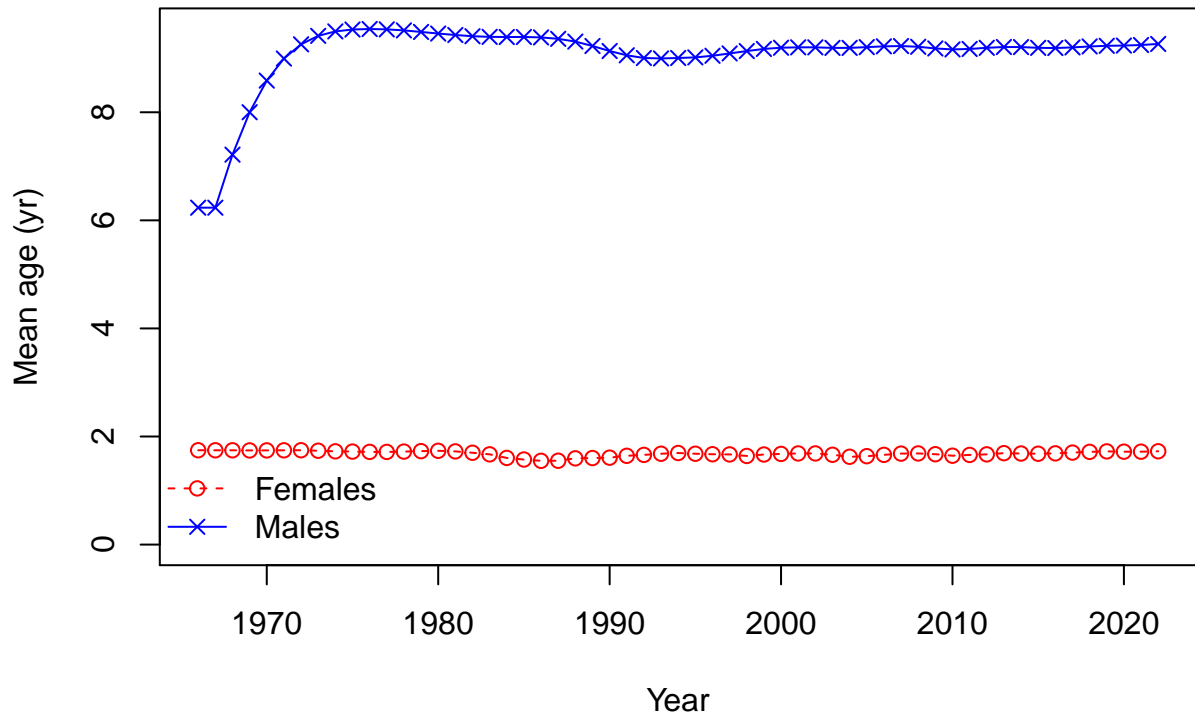




Age

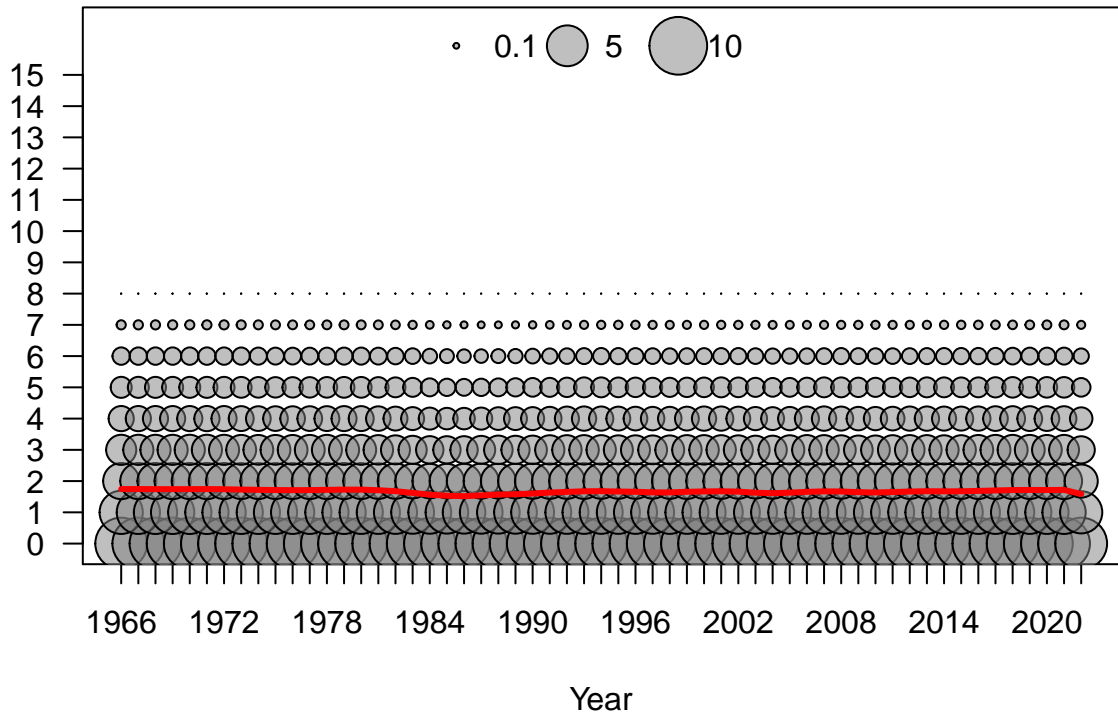


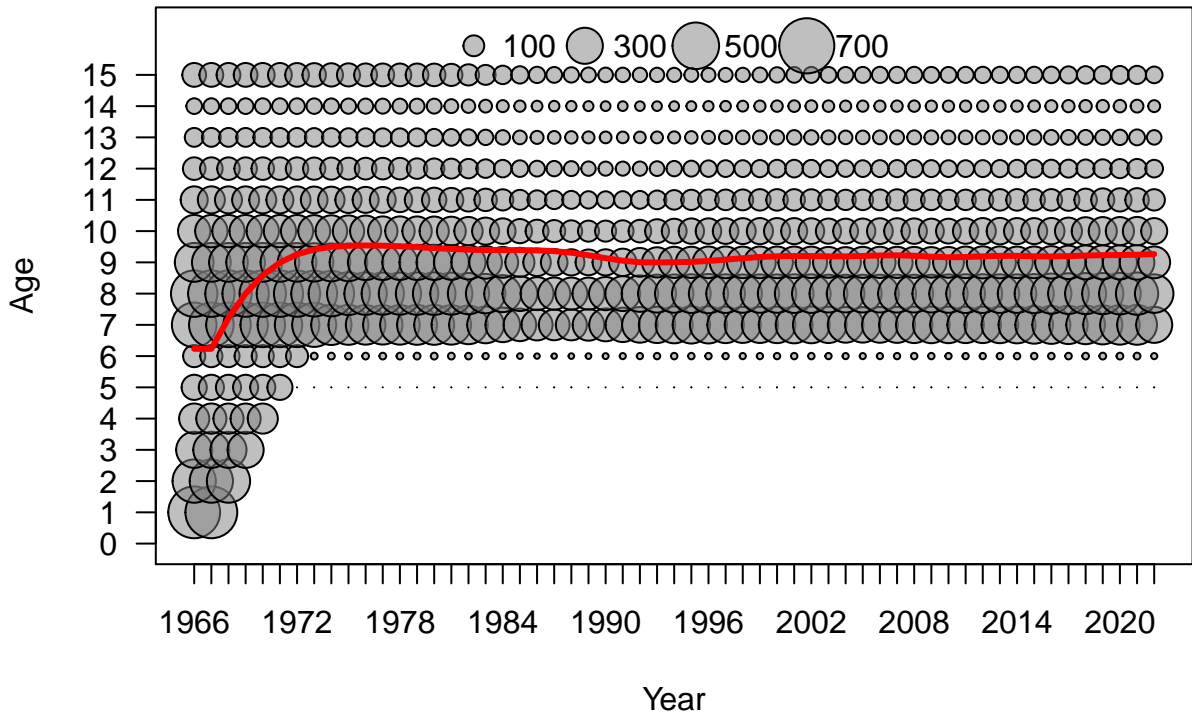


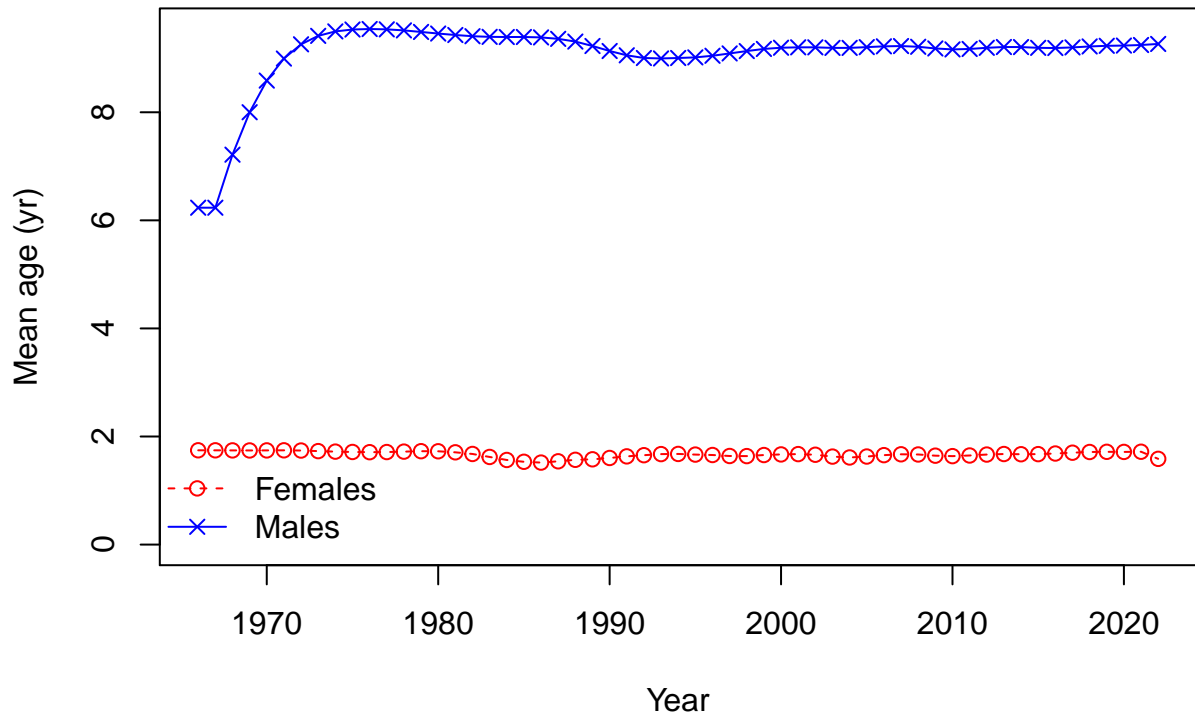




Age







Age

0  
2  
4  
6  
8  
10  
12  
14

1970

1980

1990

2000

2010

2020

Year

1

0.4

0.5

0.7

0.2

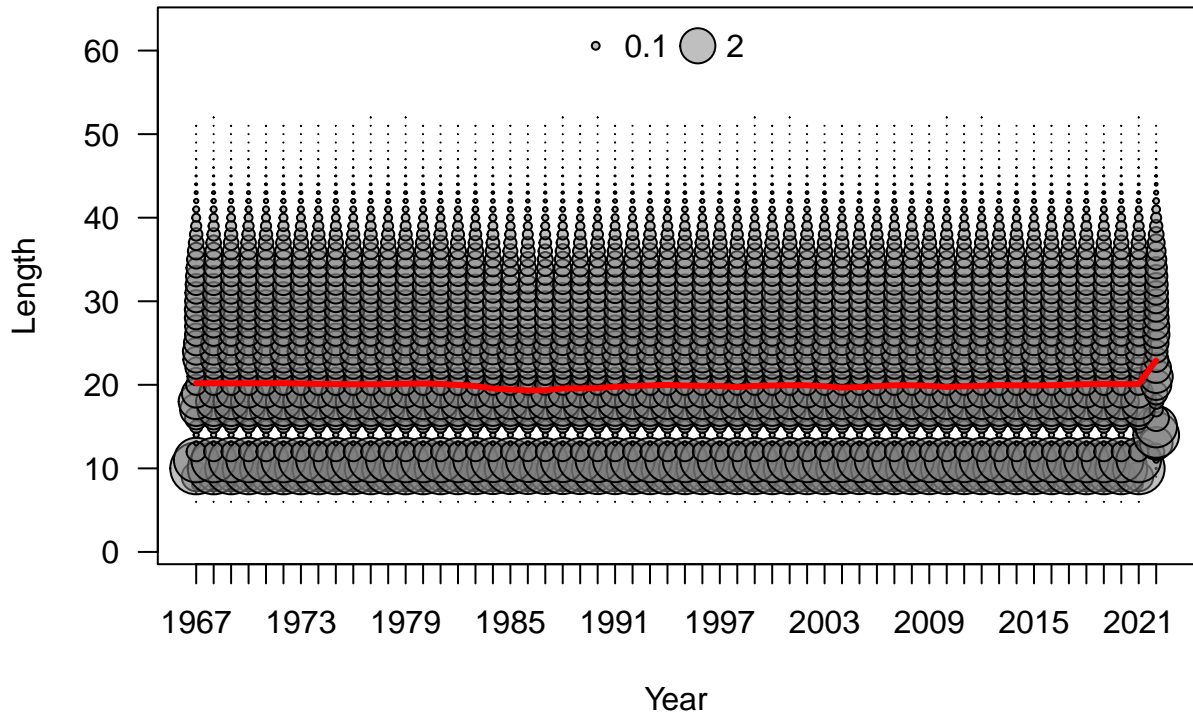
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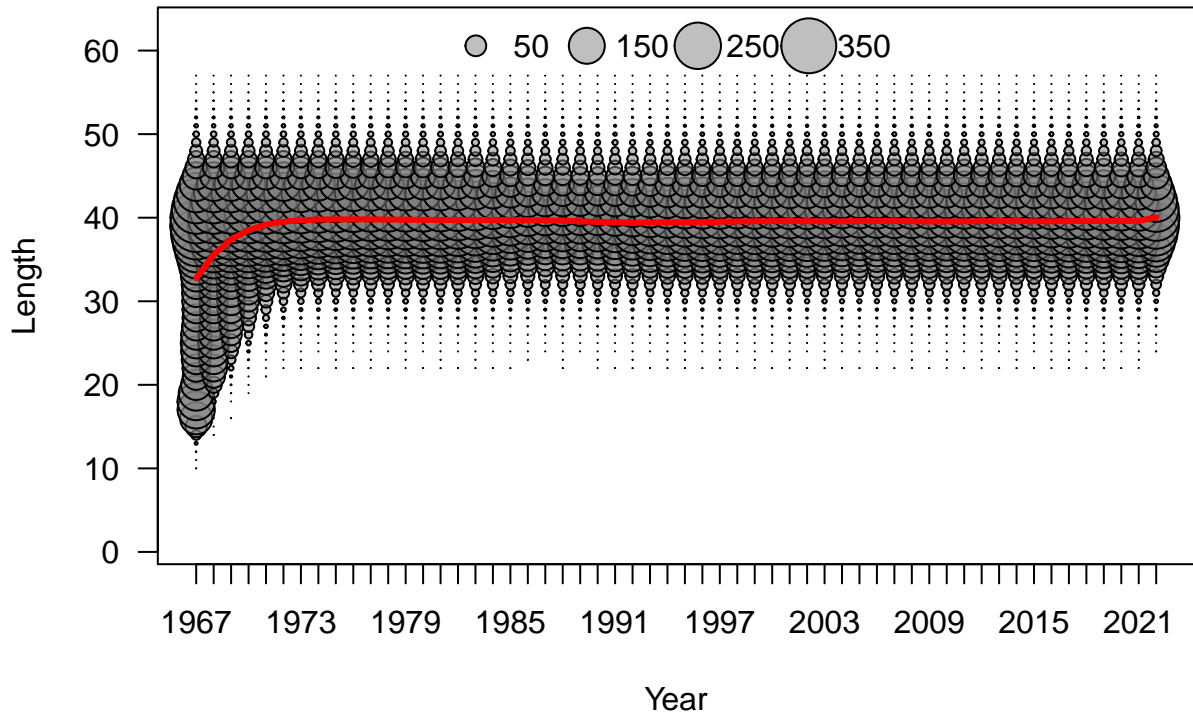
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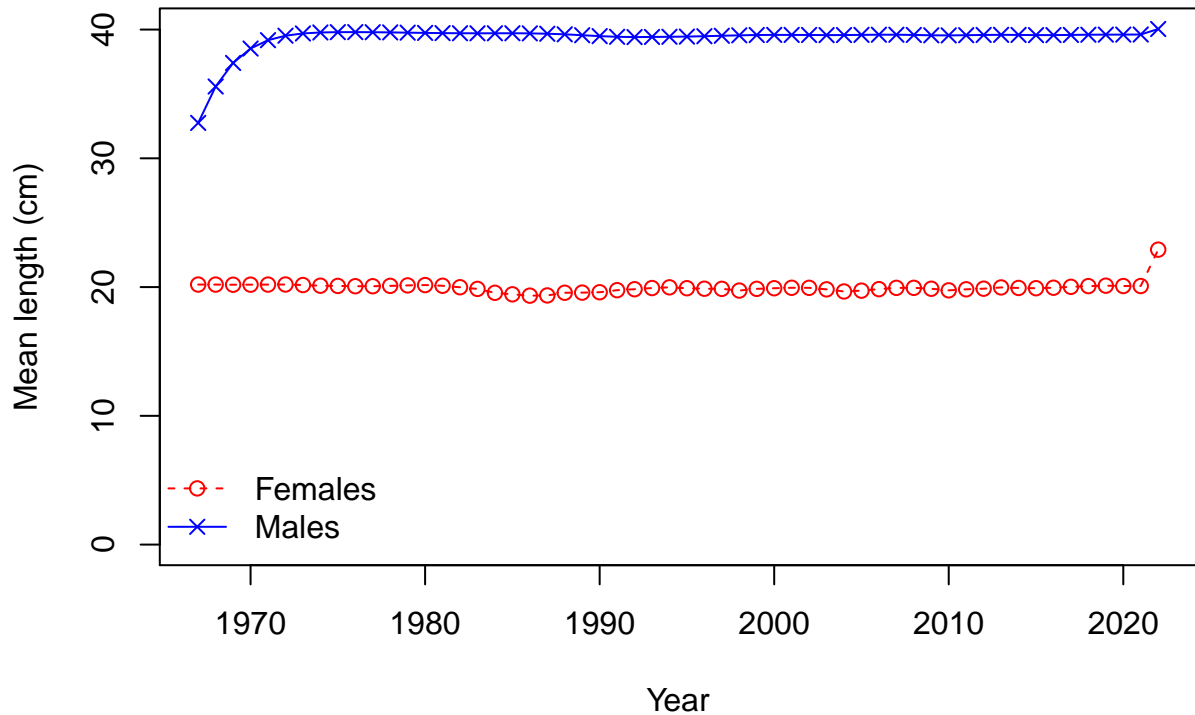
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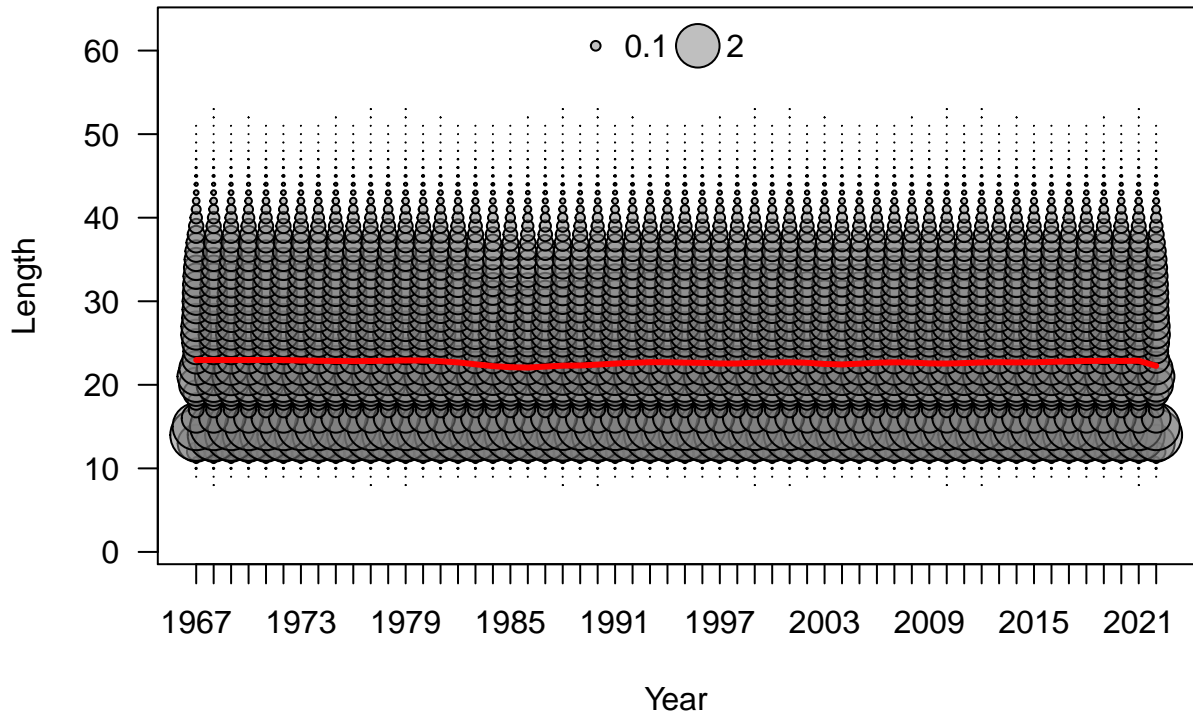
0.1

0.8

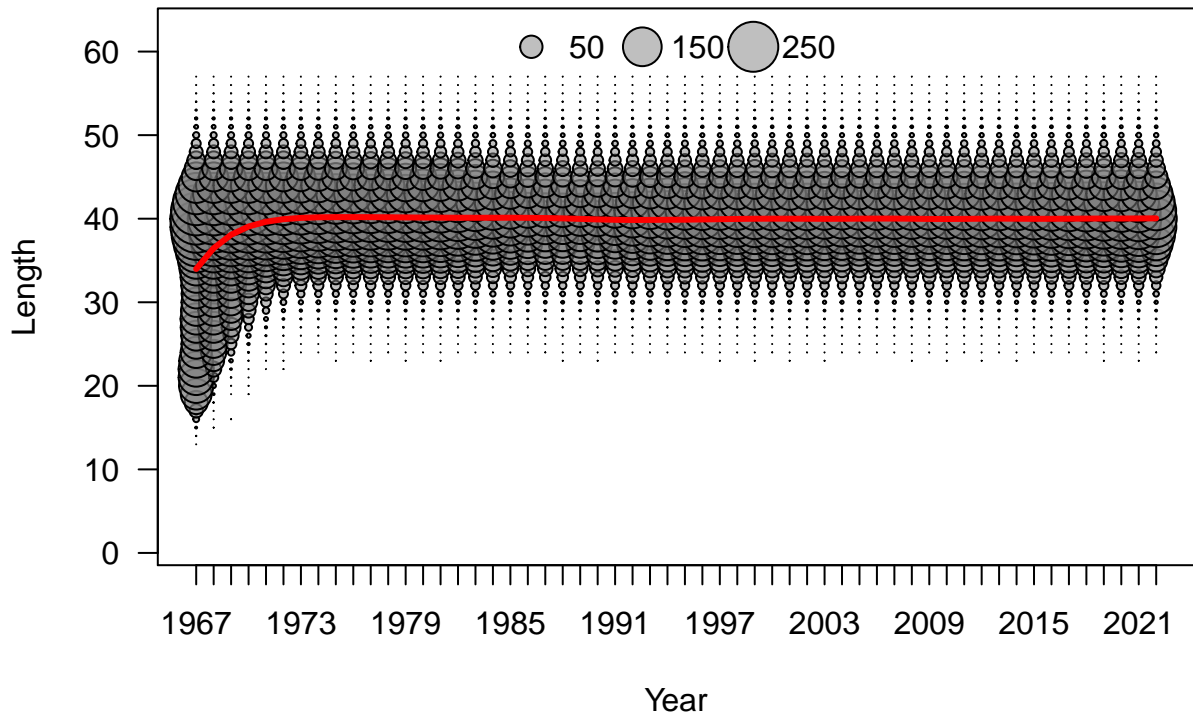


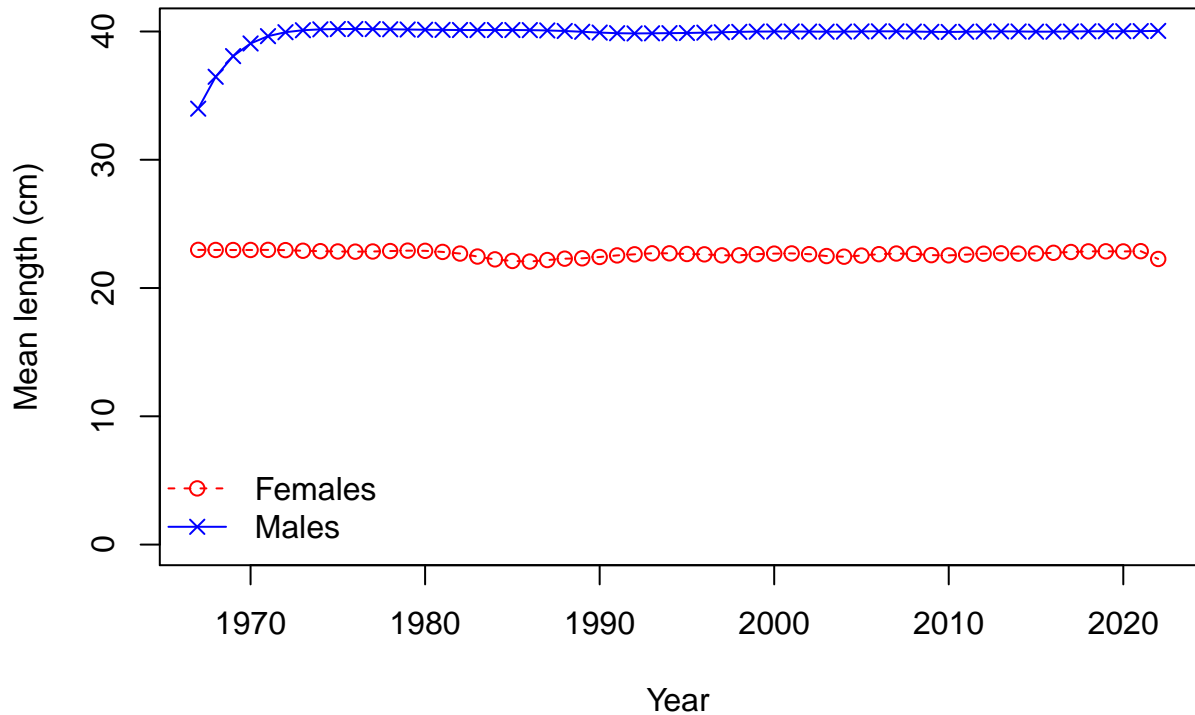












Length

50  
40  
30  
20  
10

1970

1980

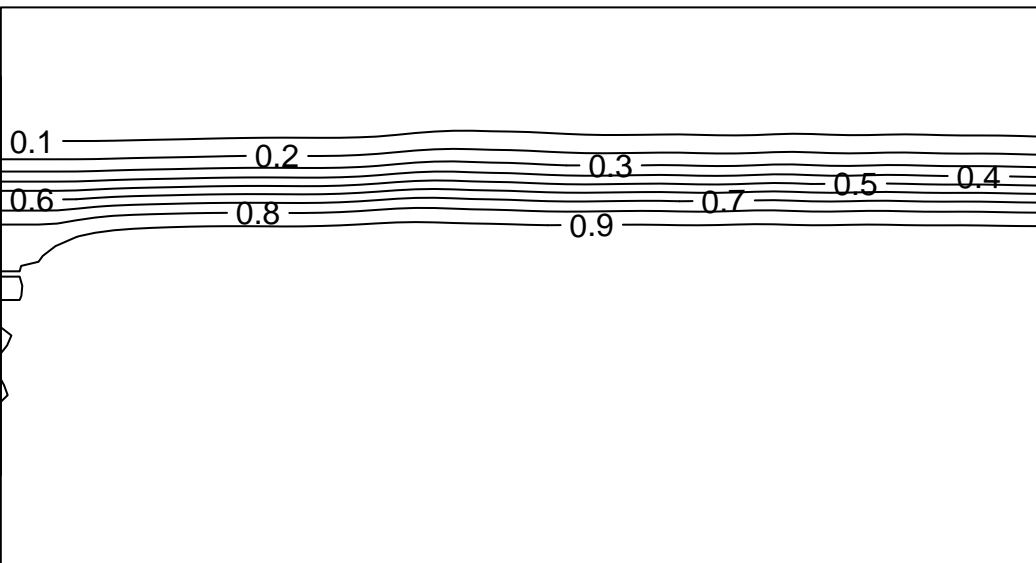
1990

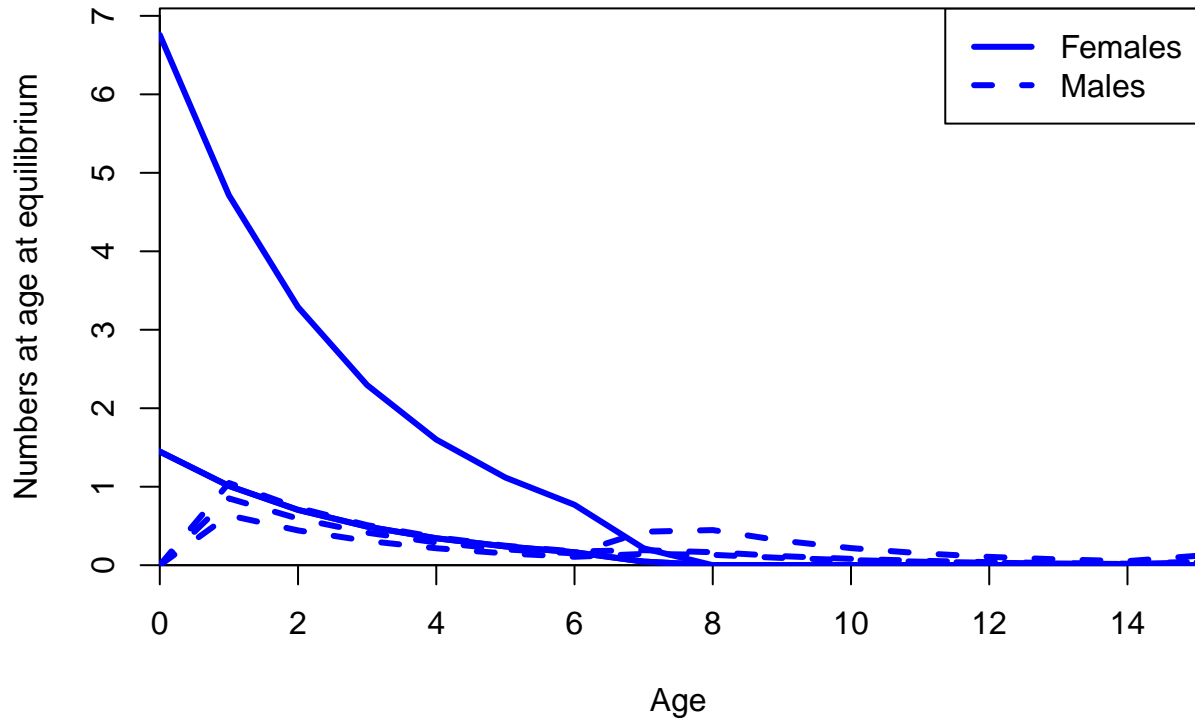
2000

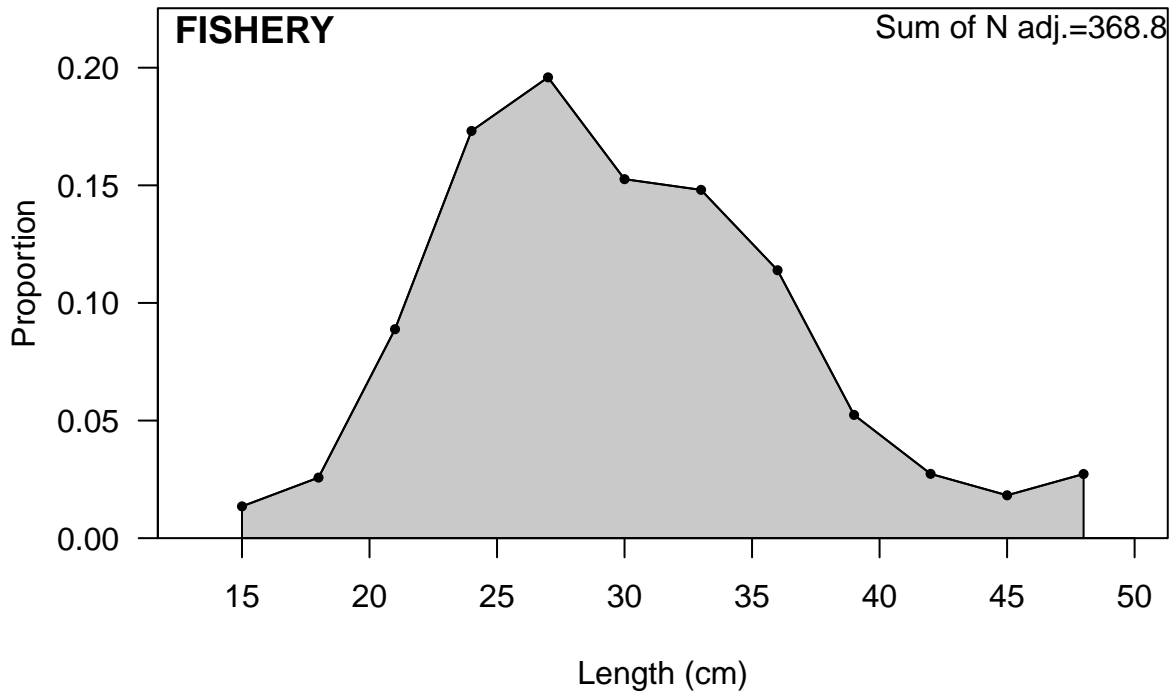
2010

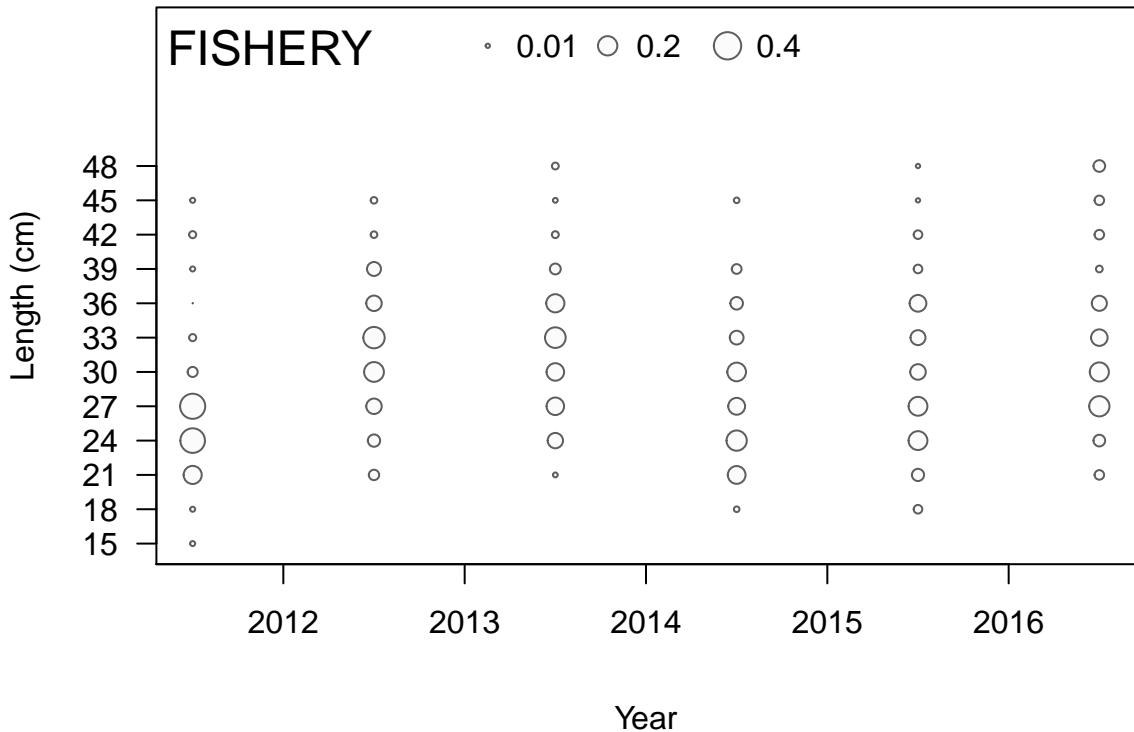
2020

Year

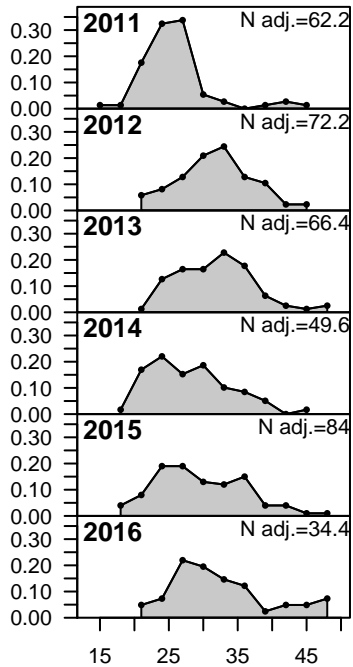




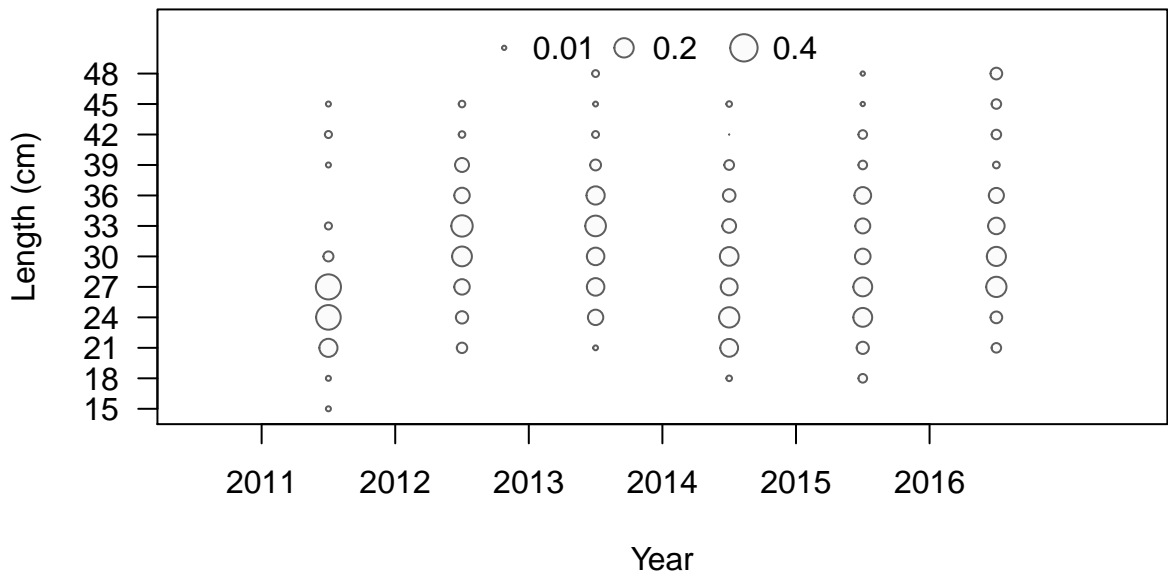




Proportion

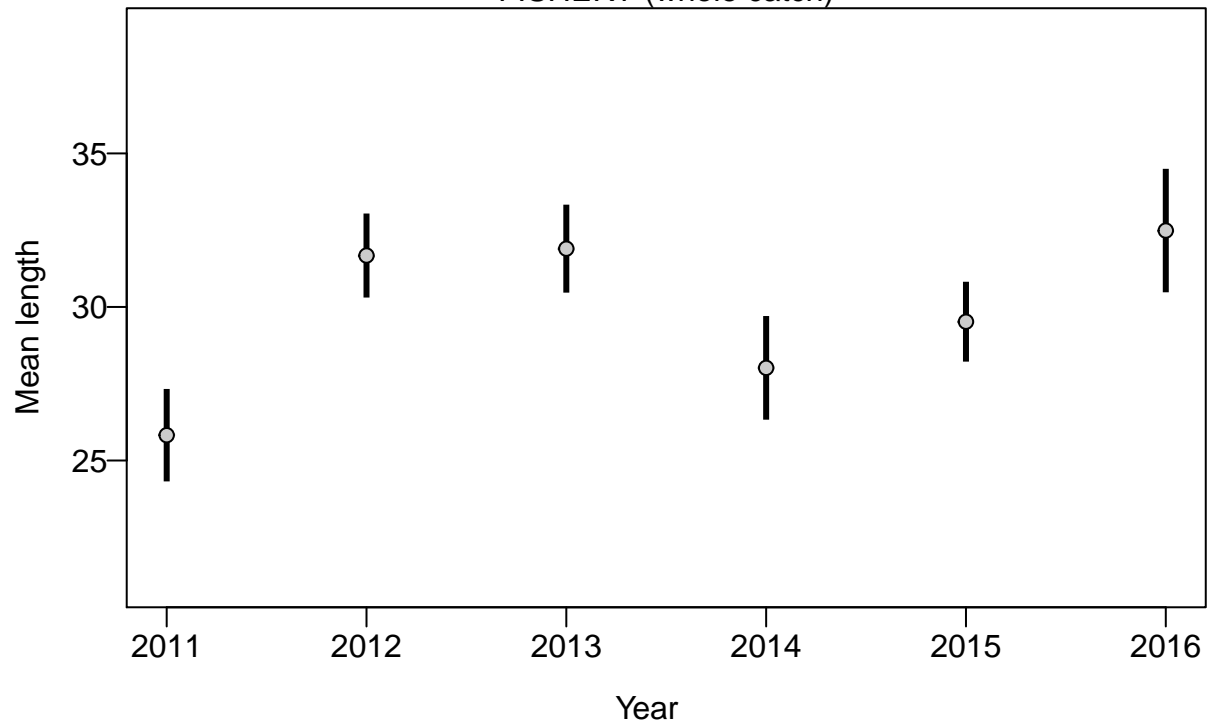


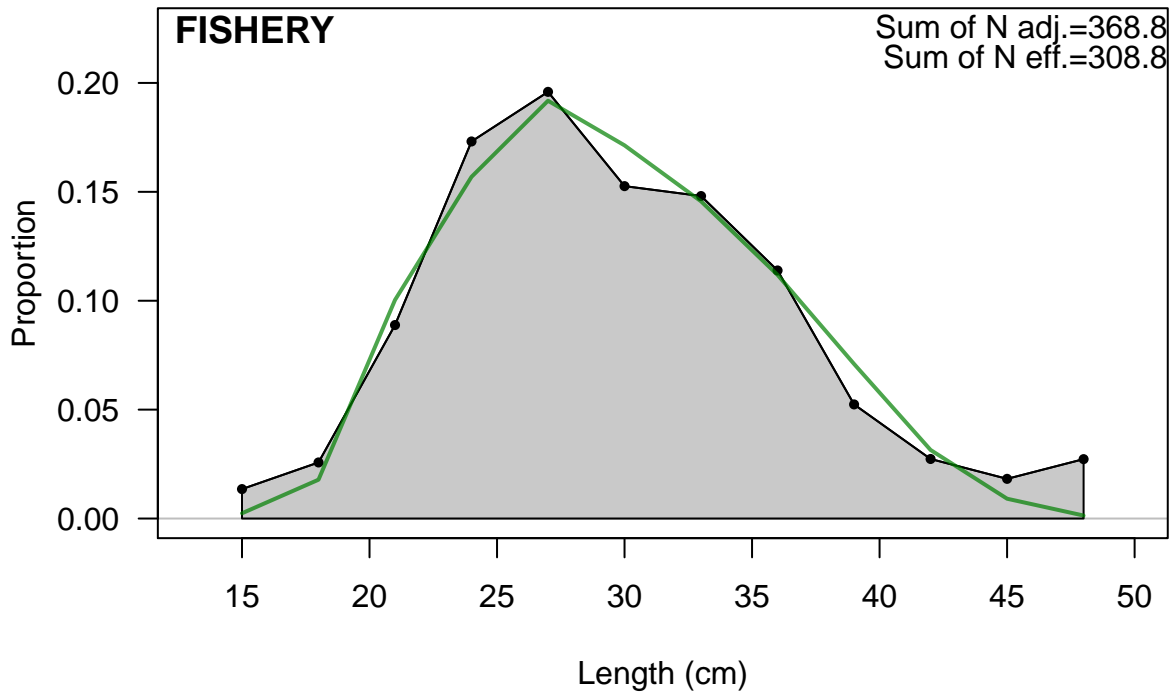
Length (cm)

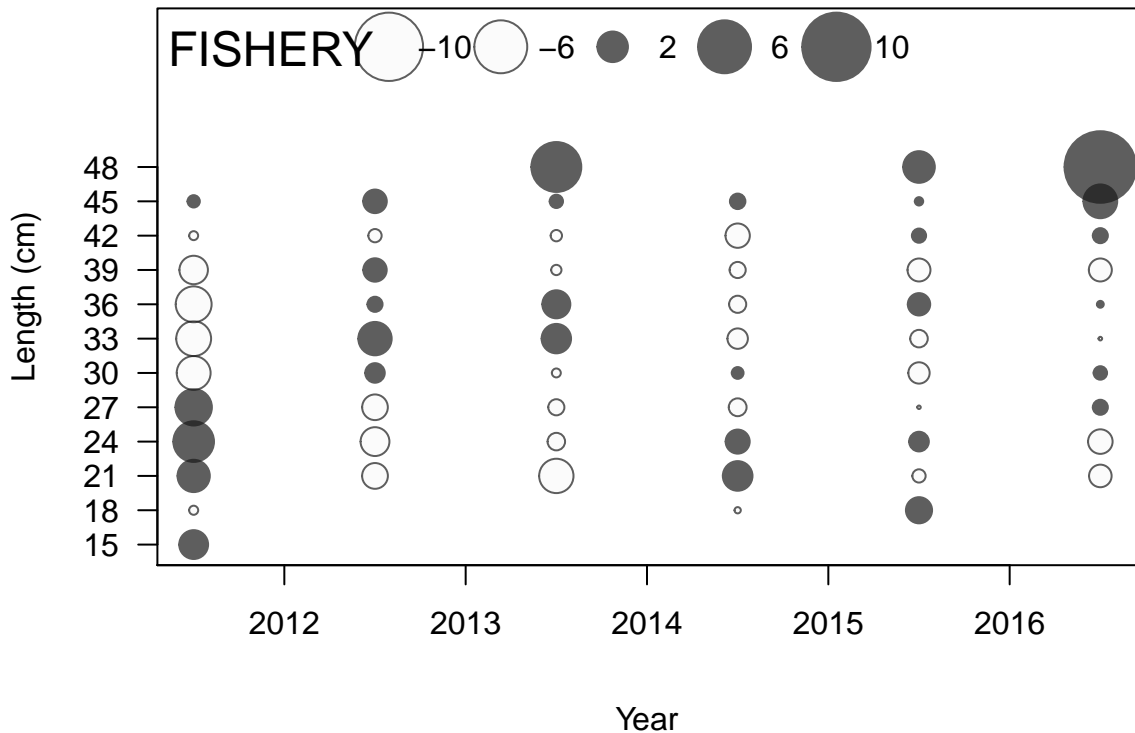




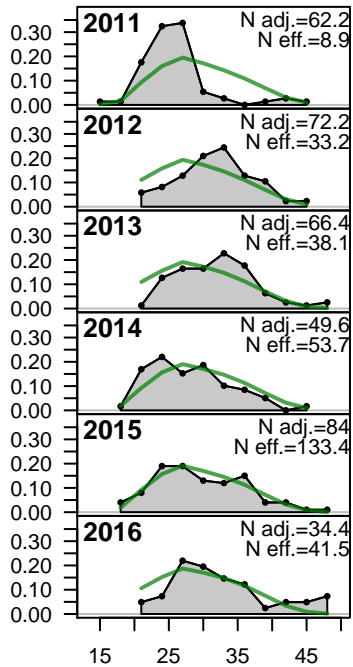
FISHERY (whole catch)





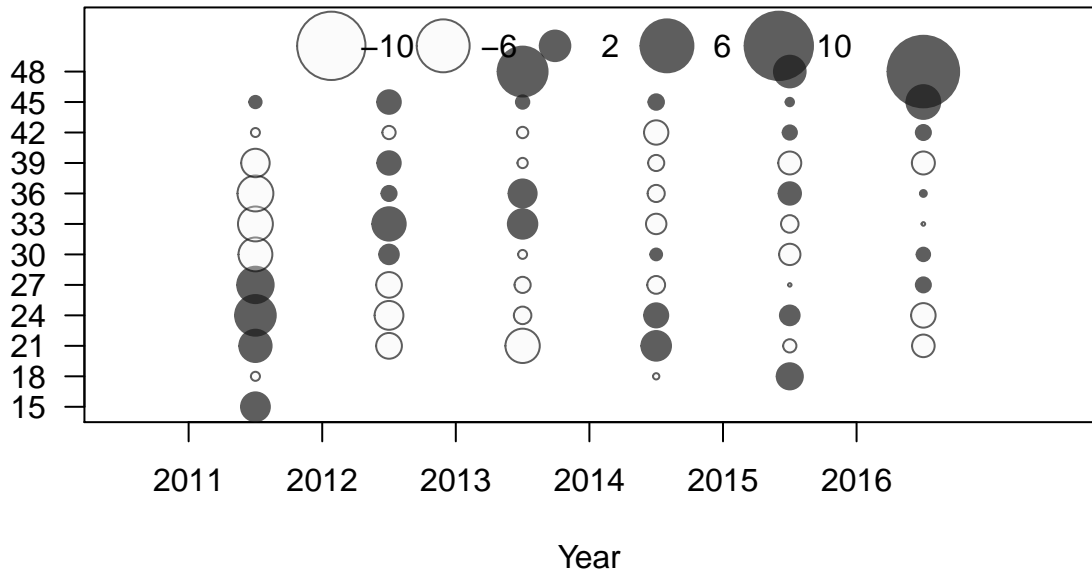


Proportion

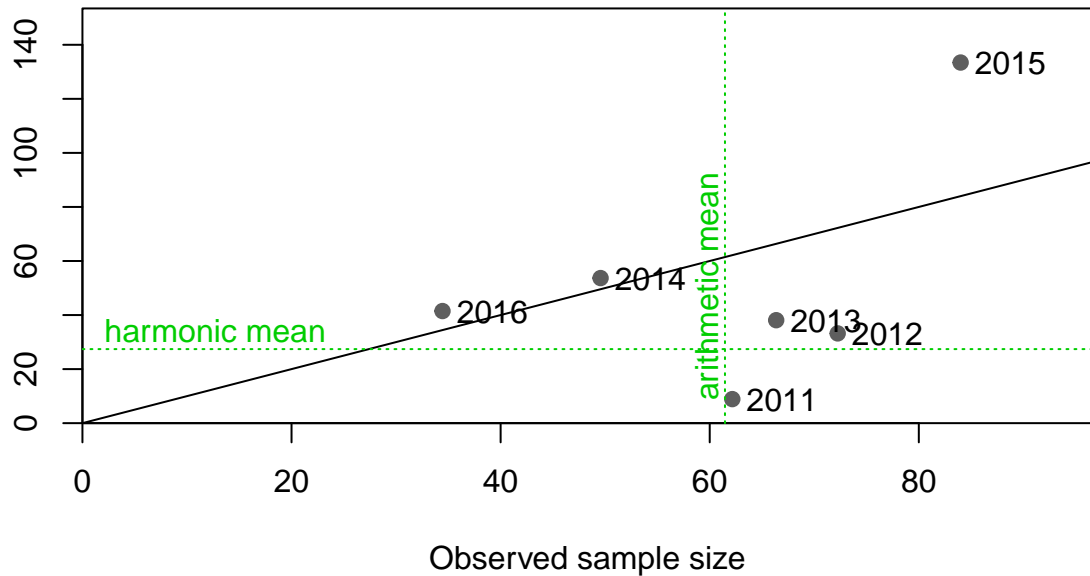


Length (cm)

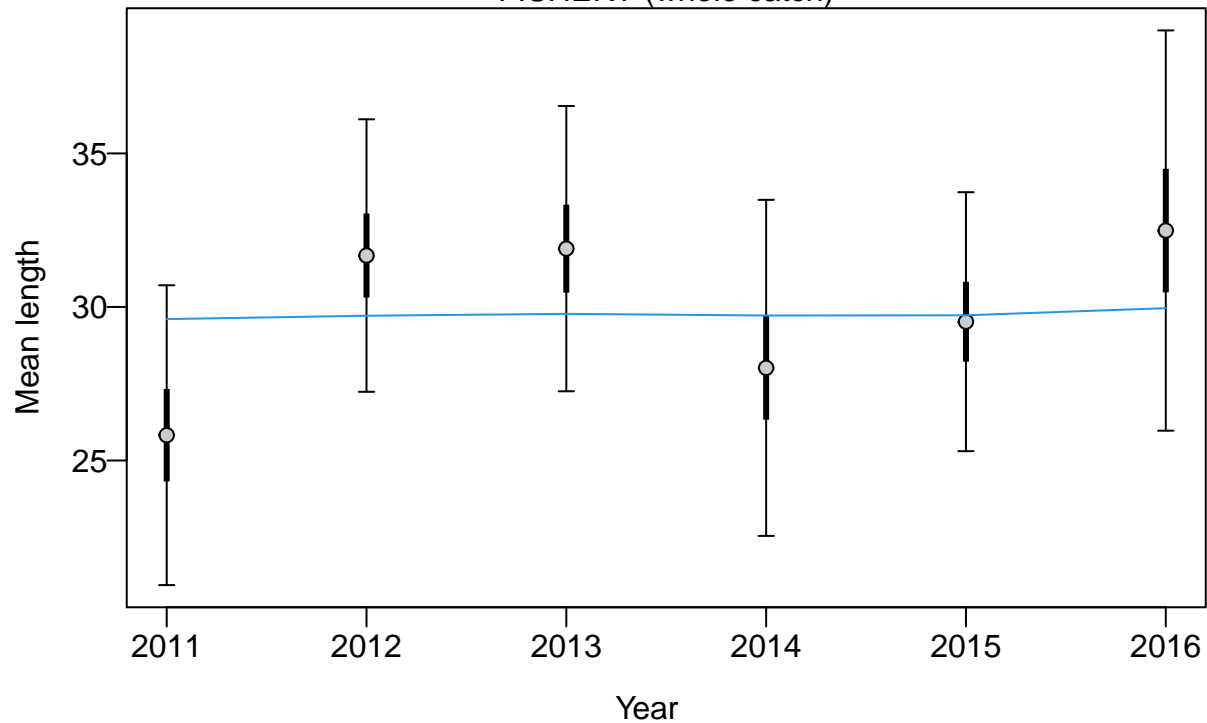
Length (cm)

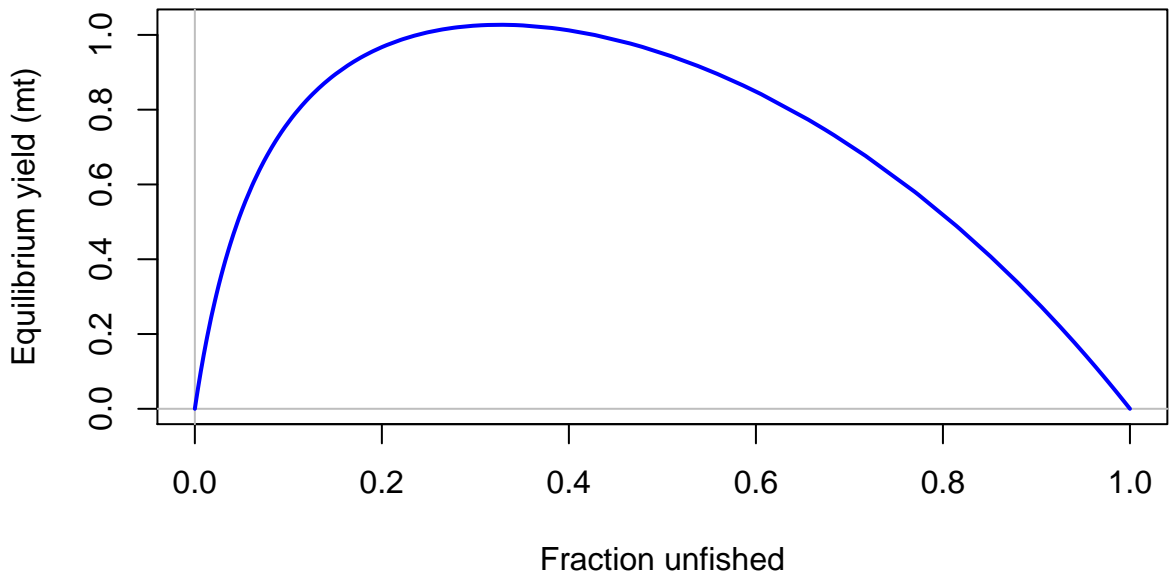


Effective sample size

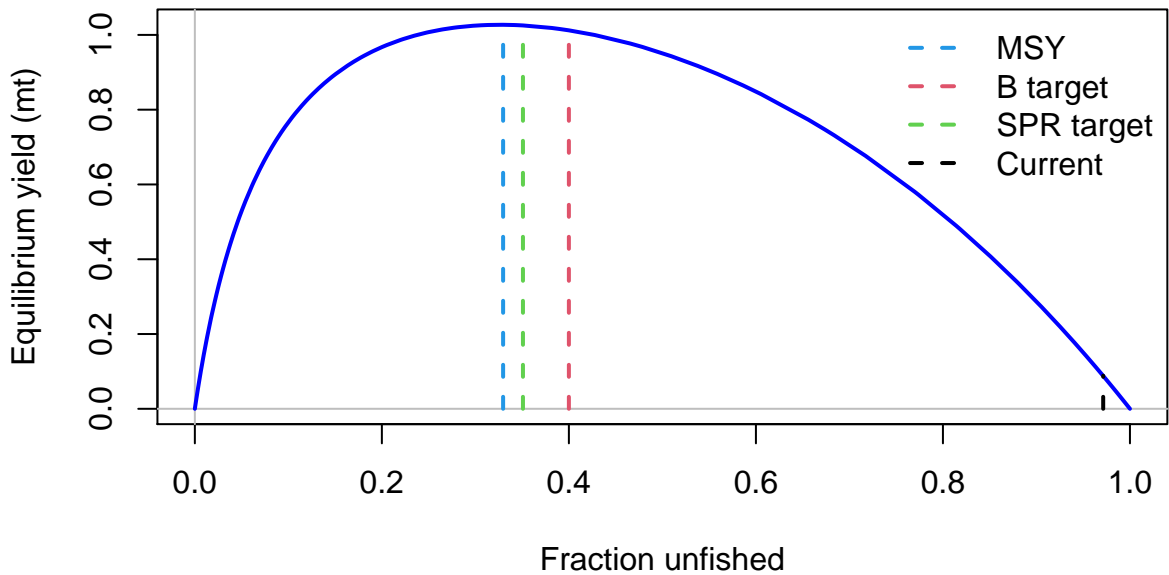


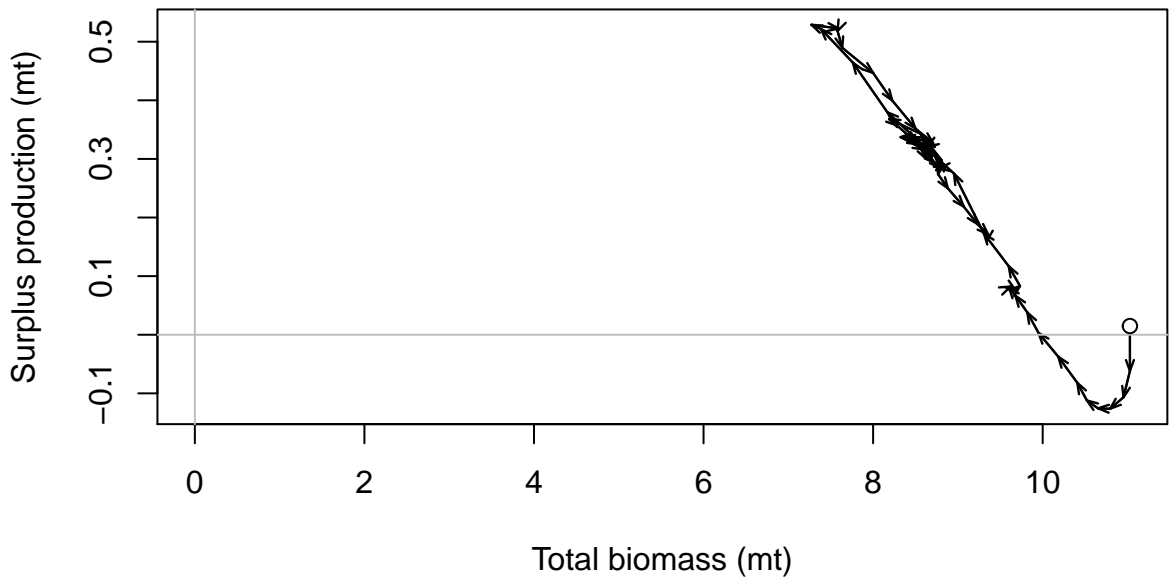
FISHERY (whole catch)

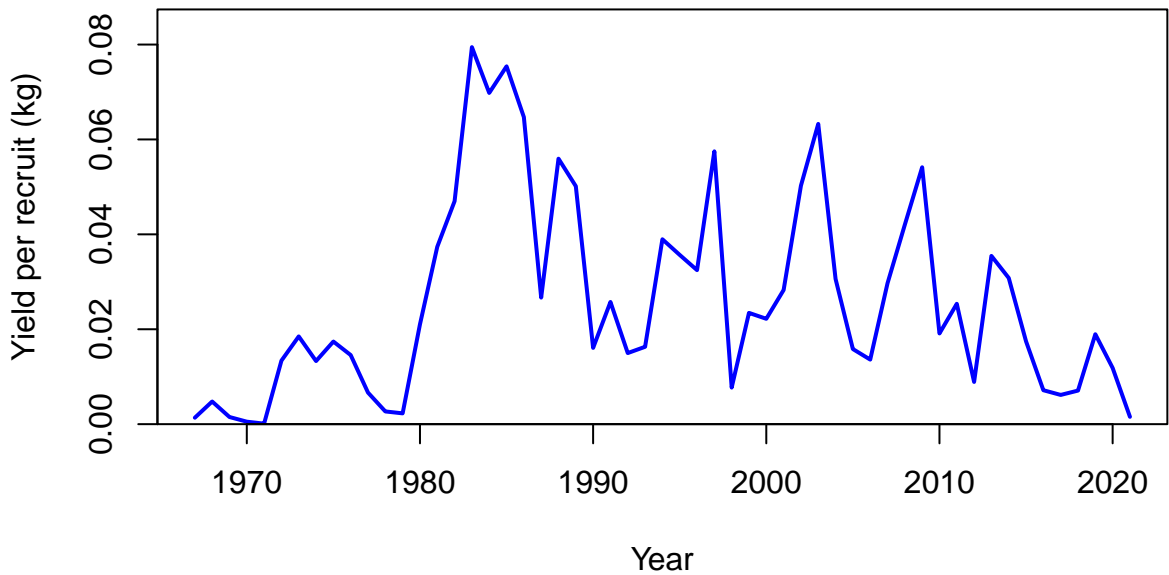


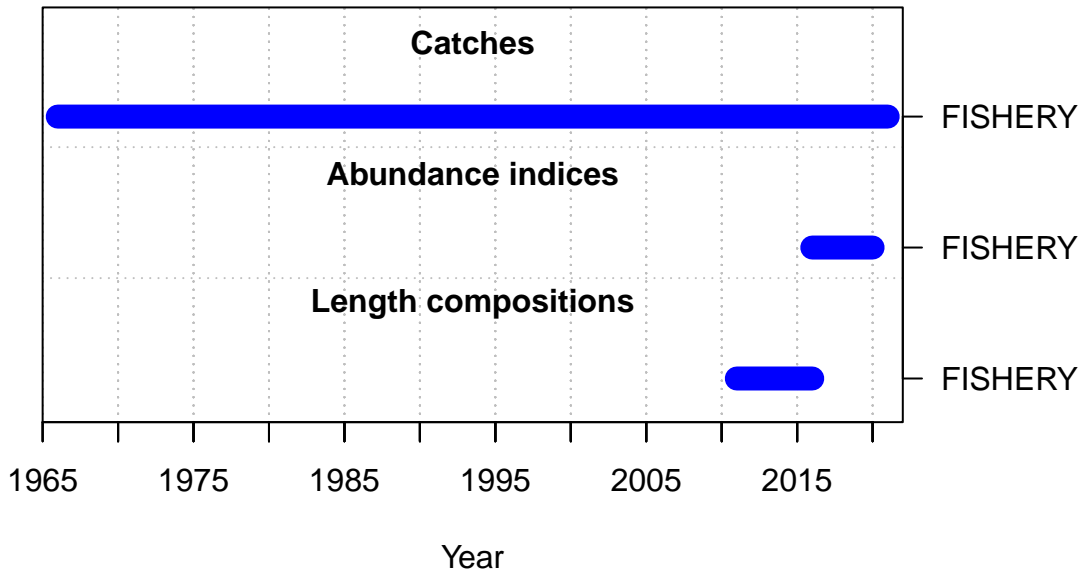


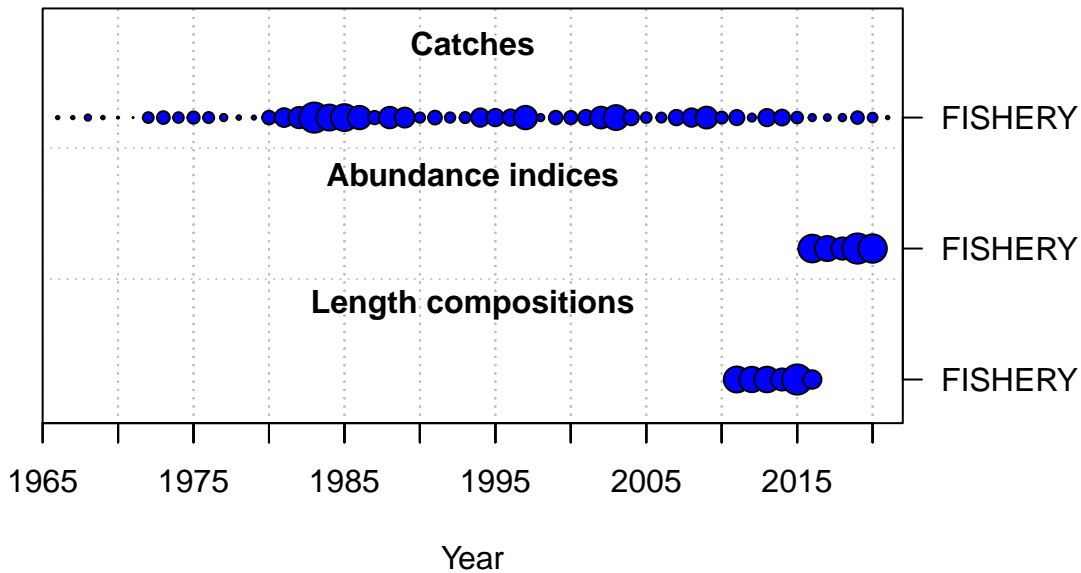


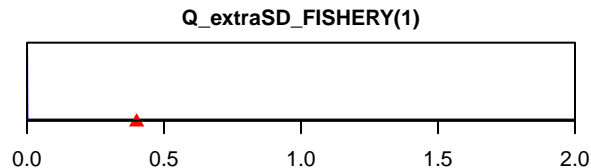
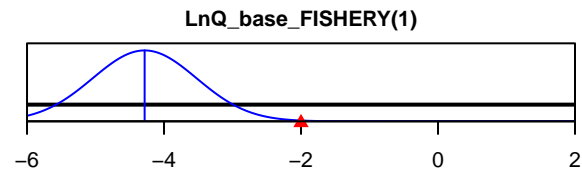
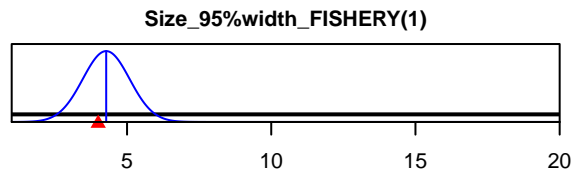
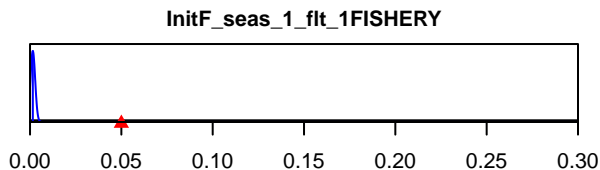
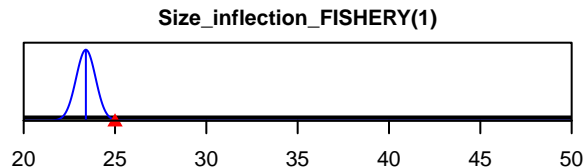
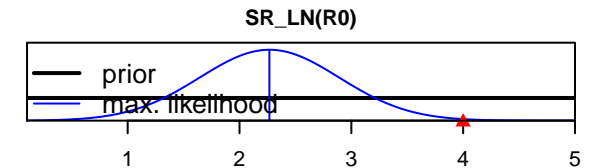












Parameter value