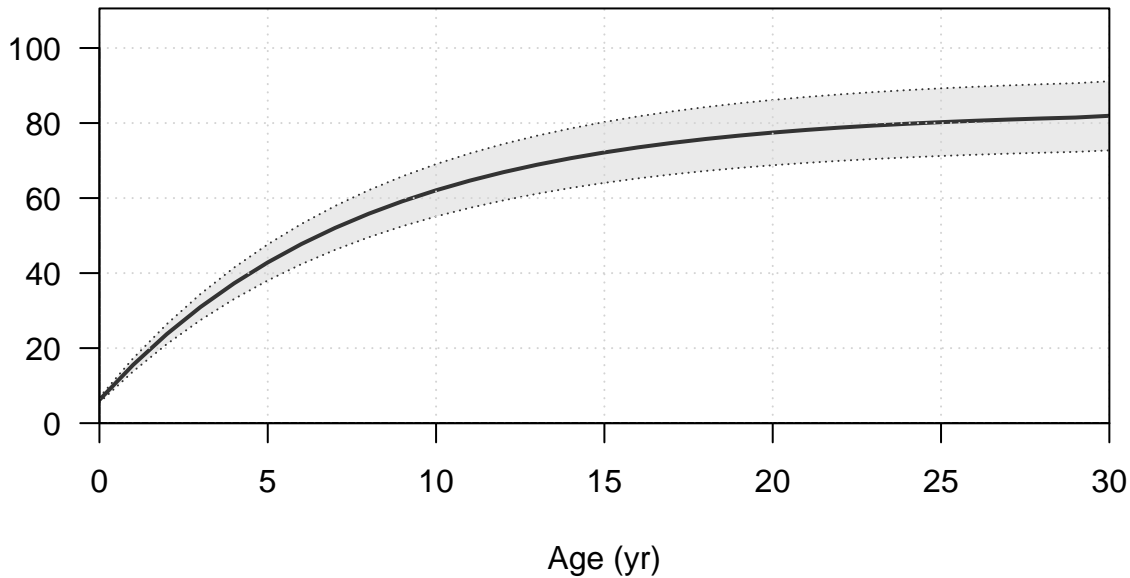
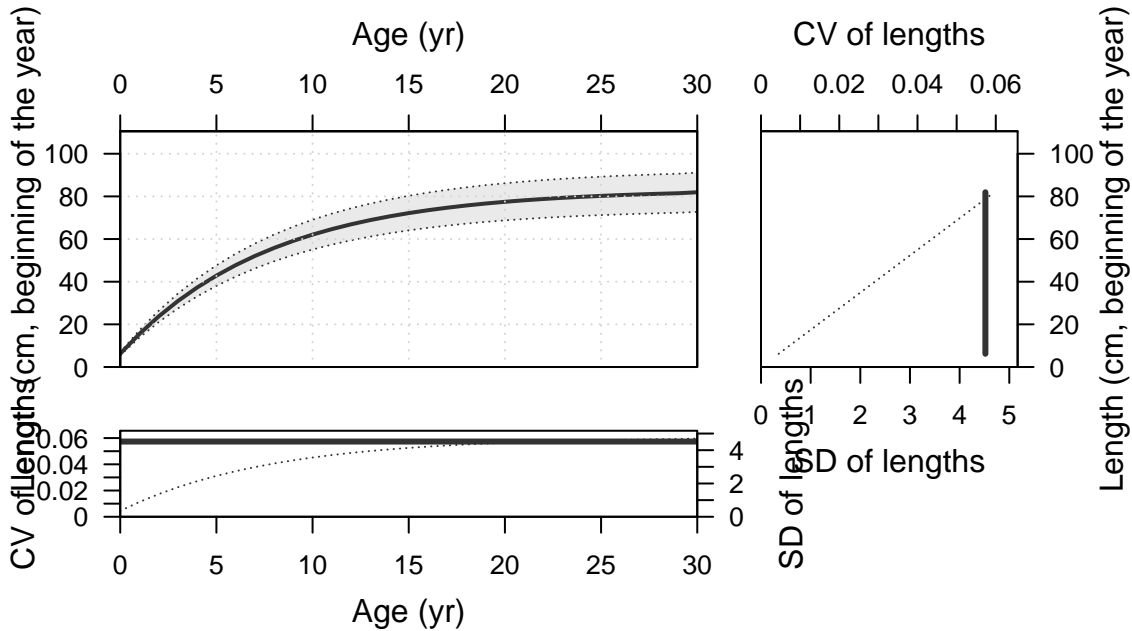
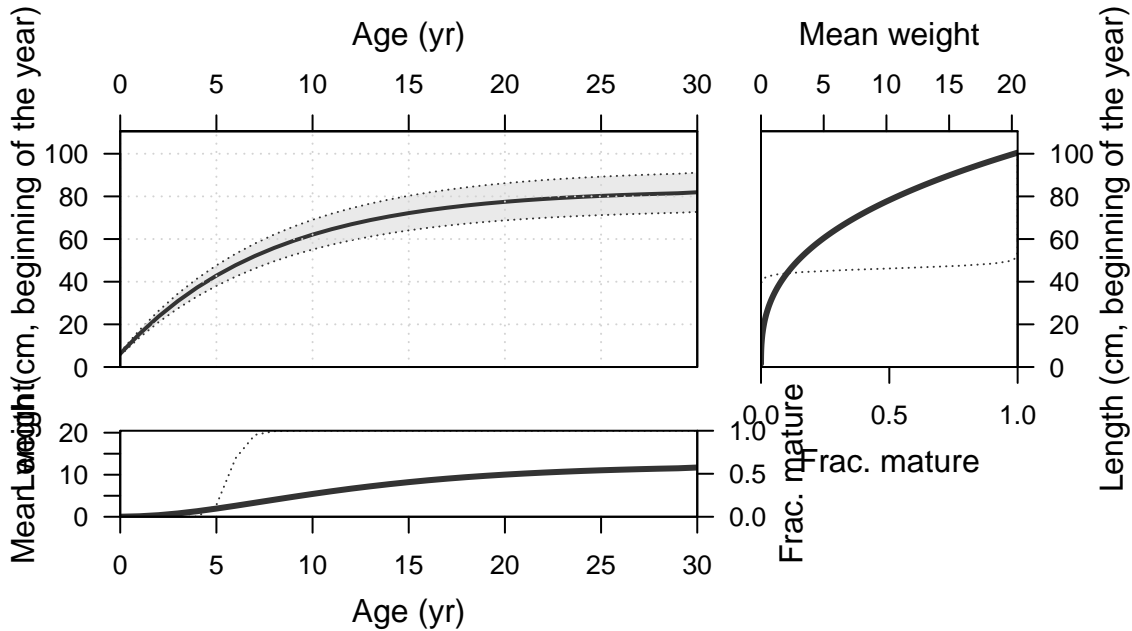


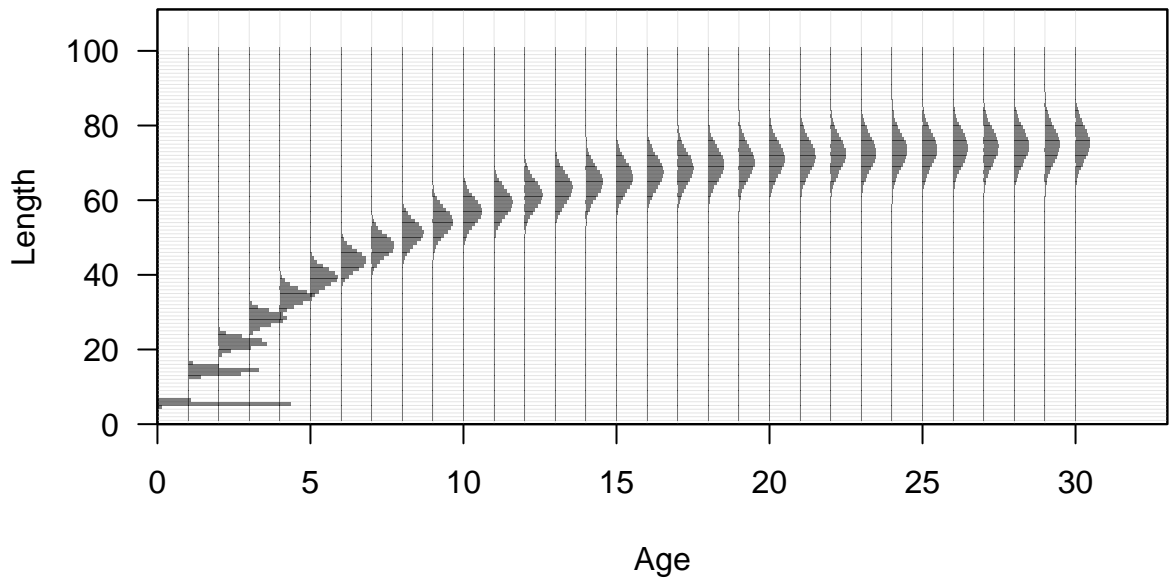
Plots created using the 'r4ss' package in R  
Stock Synthesis version: 3.30.19.0  
StartTime: Tue Feb 14 09:35:30 2023  
Data\_File: data.ss  
Control\_File: control.ss

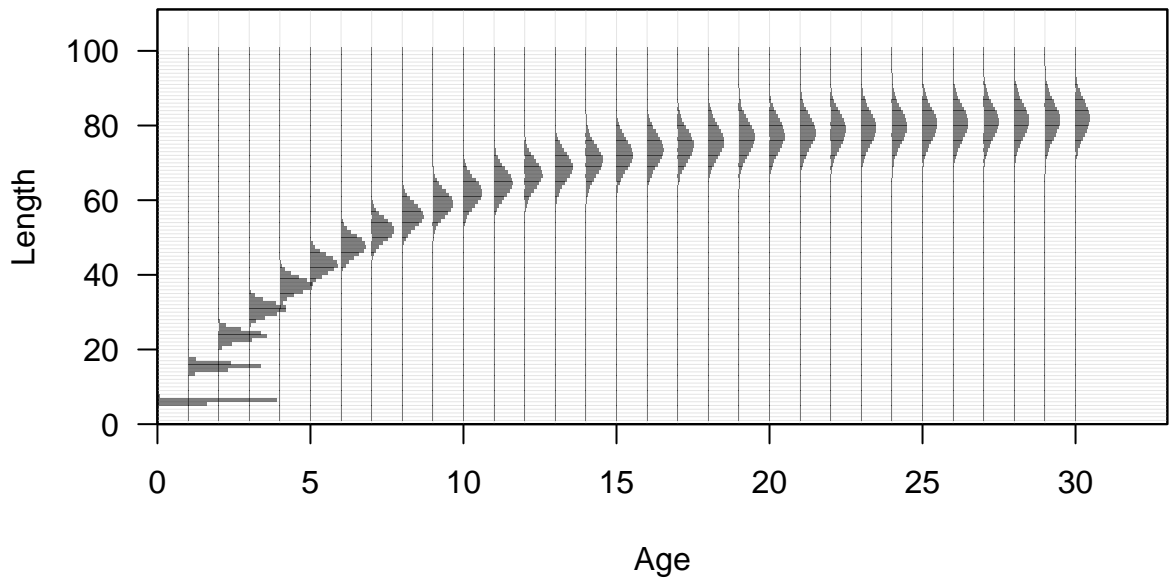
Length (cm, beginning of the year)

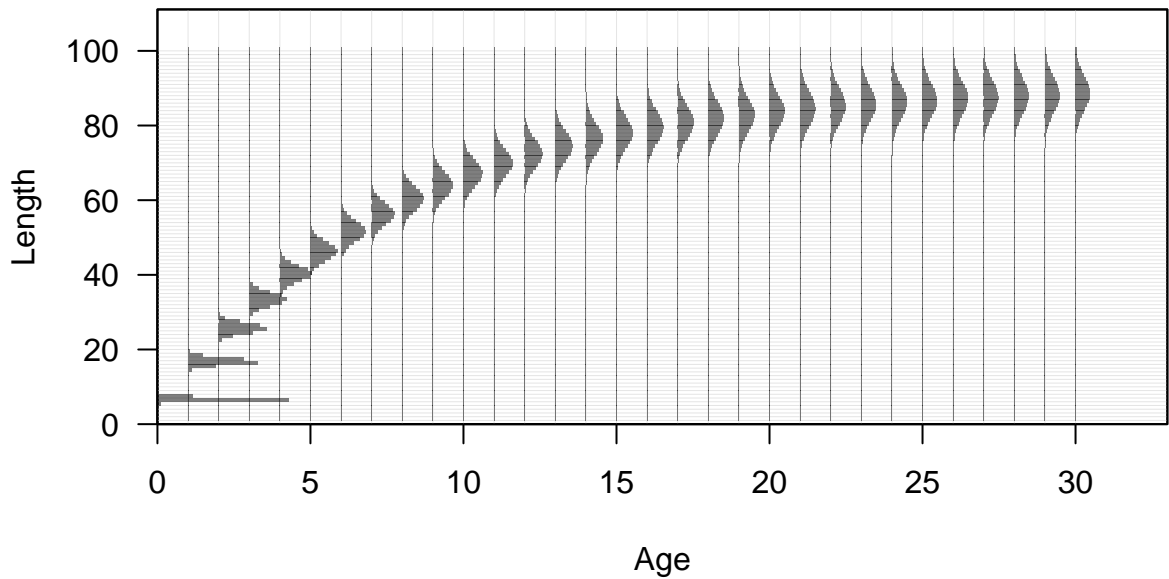


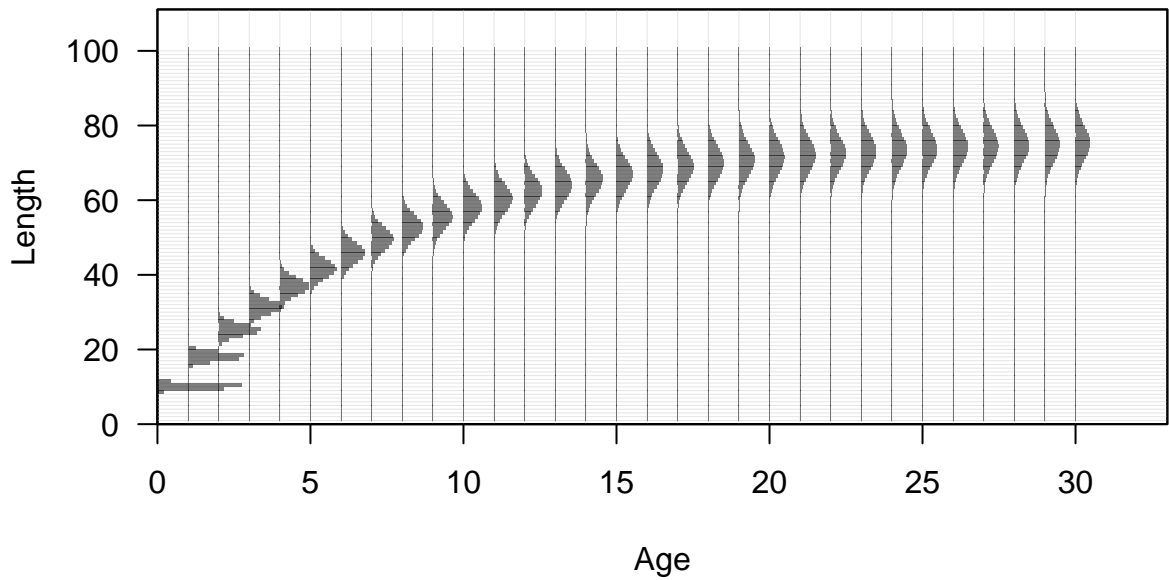




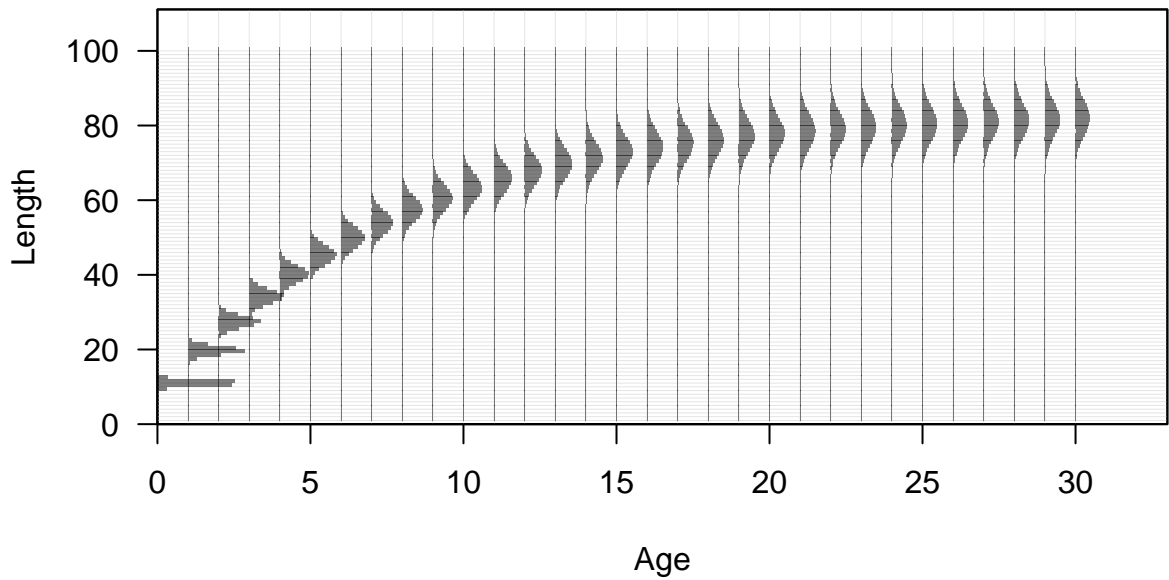


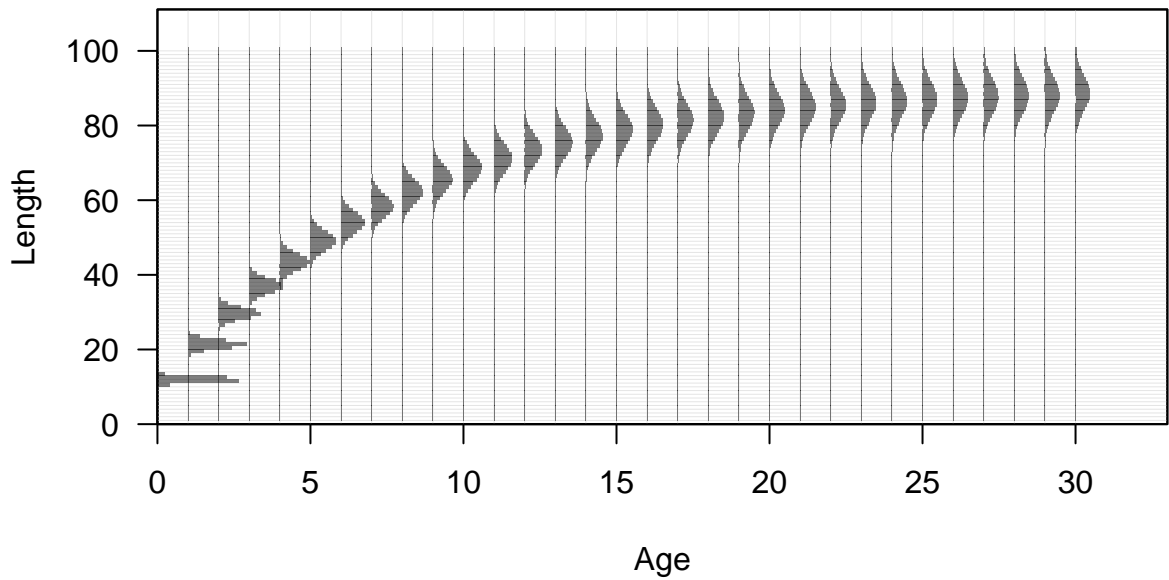




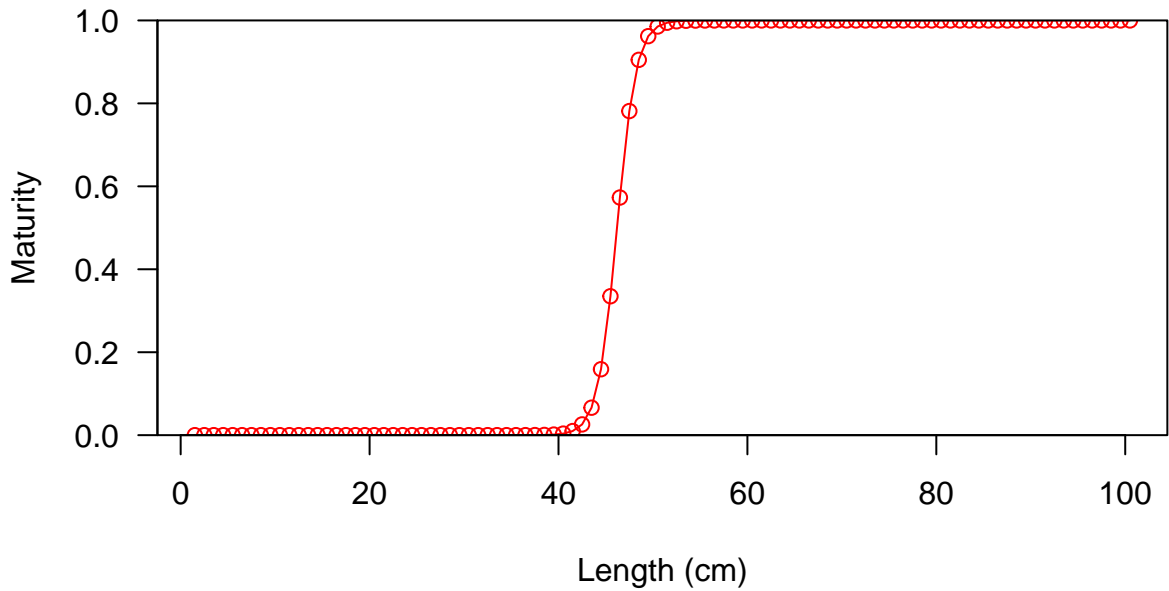


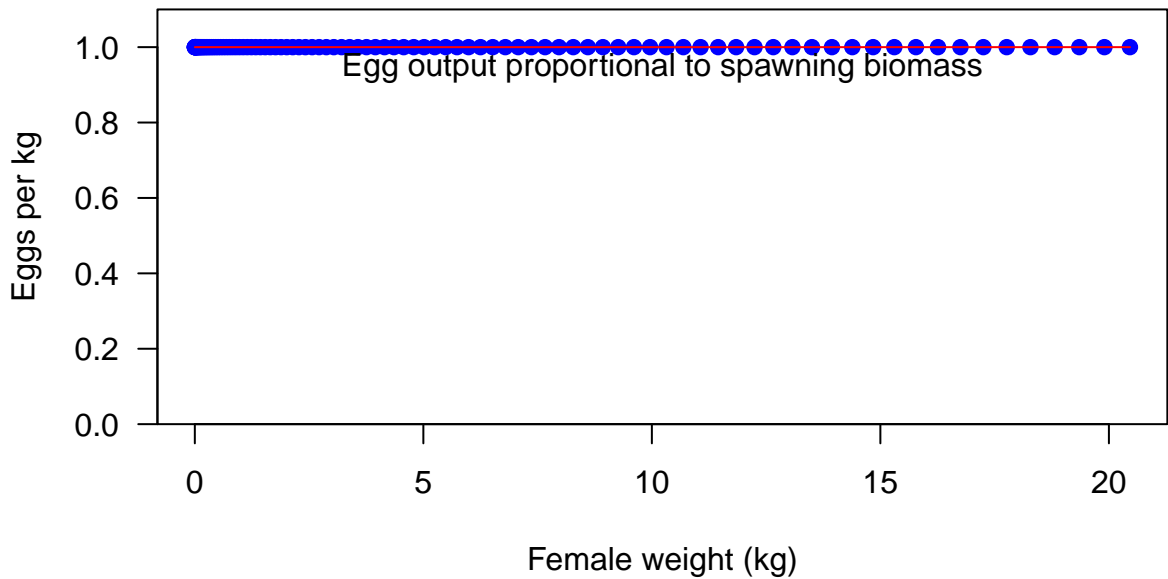




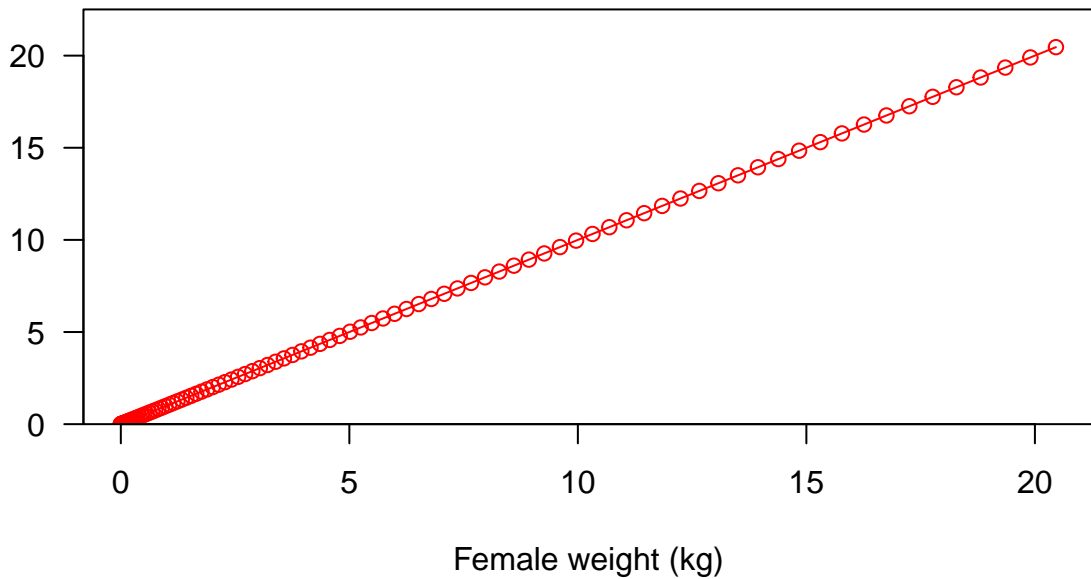








Fecundity



Fecundity

20

15

10

5

0

0

20

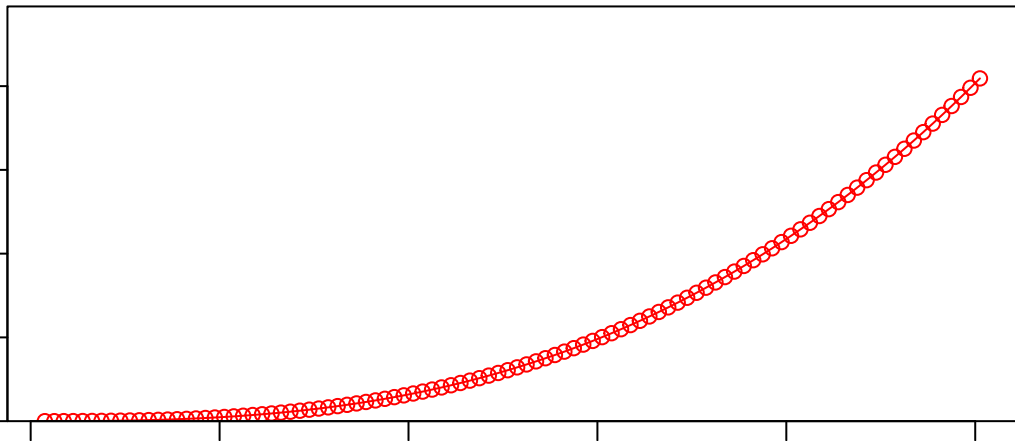
40

60

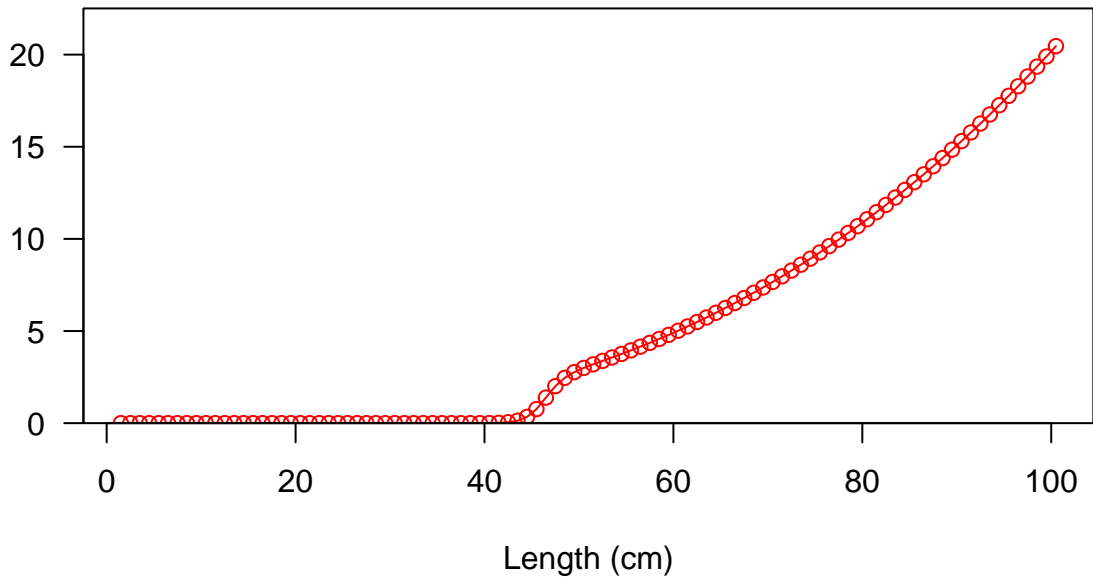
80

100

Female length (cm)

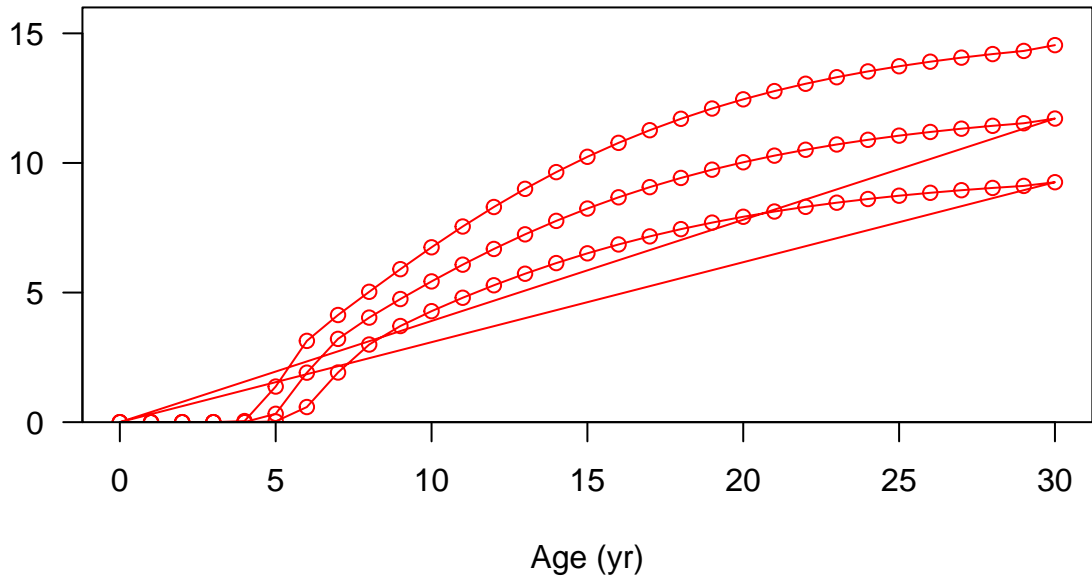


Spawning output

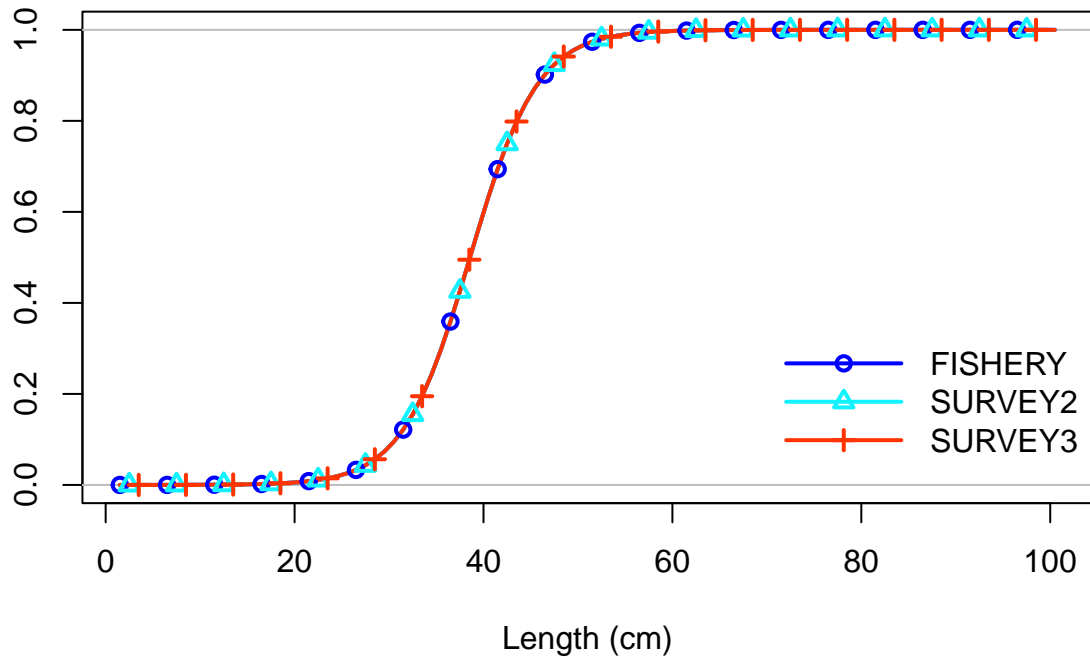




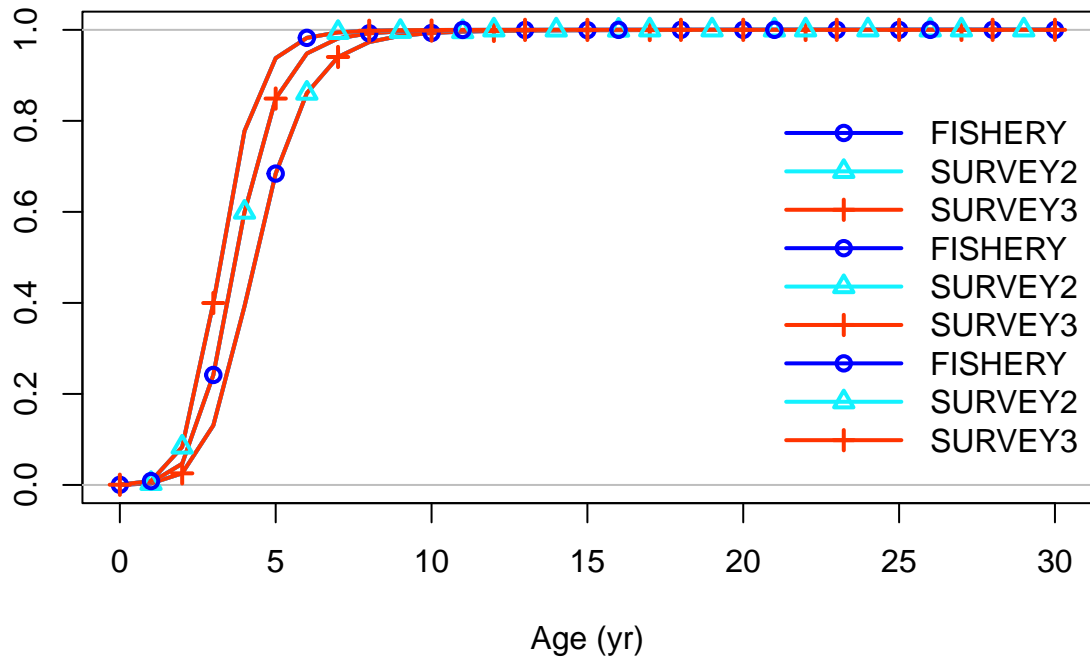
Spawning output



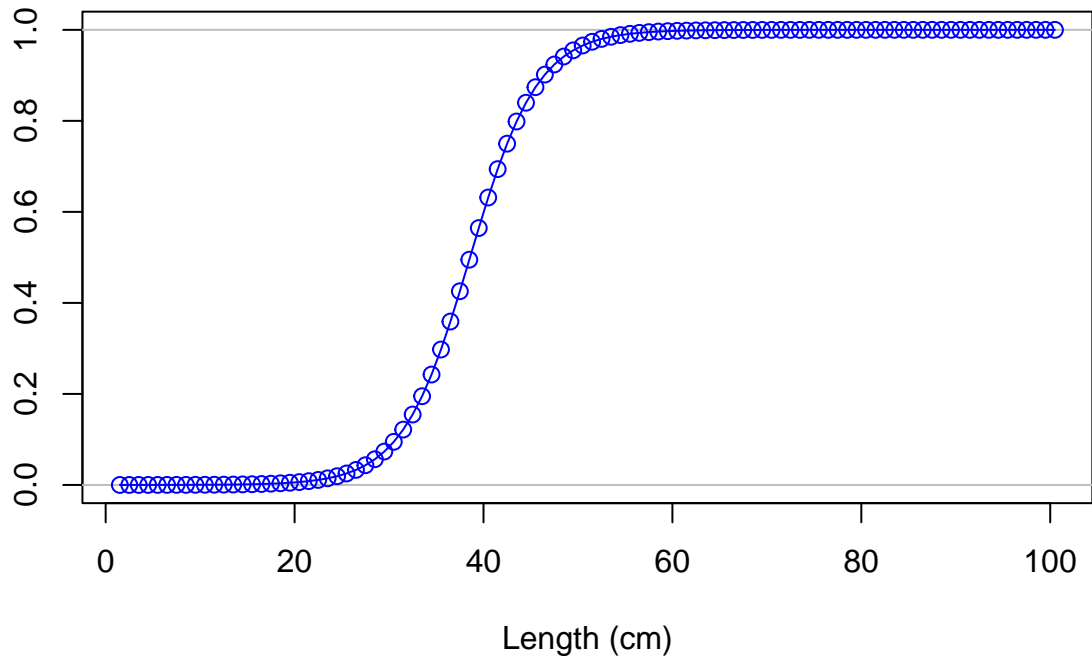
Selectivity



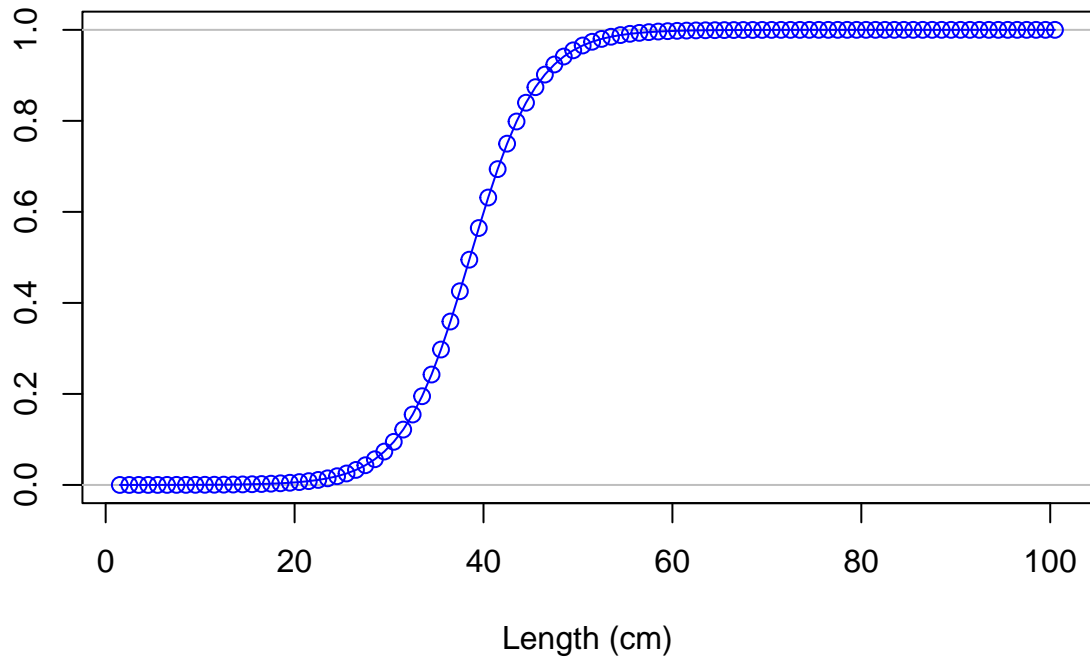
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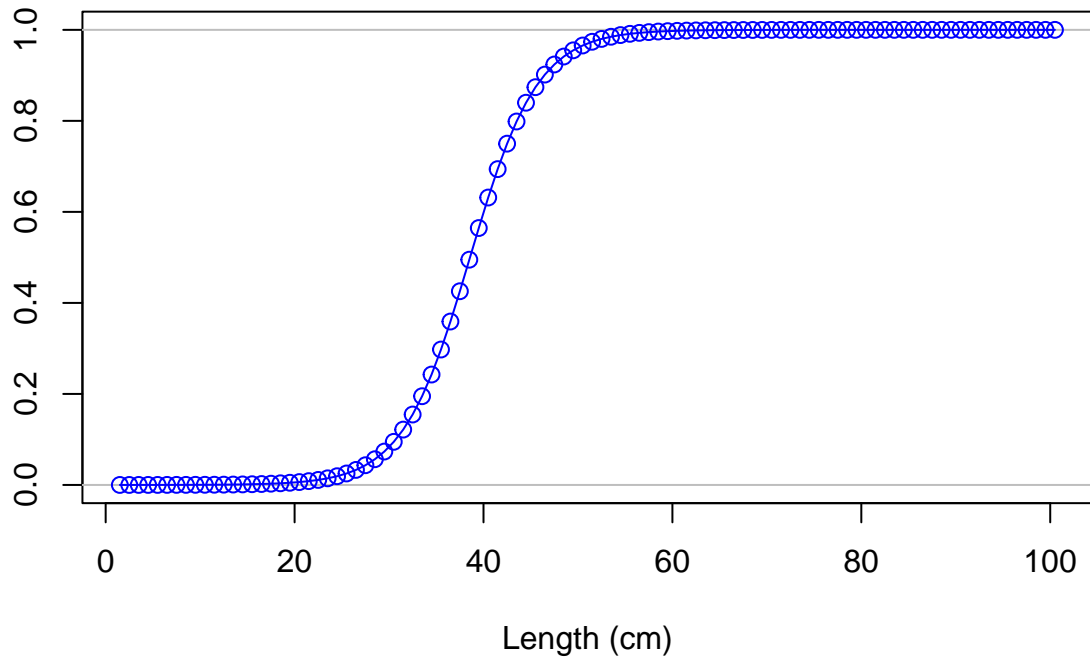
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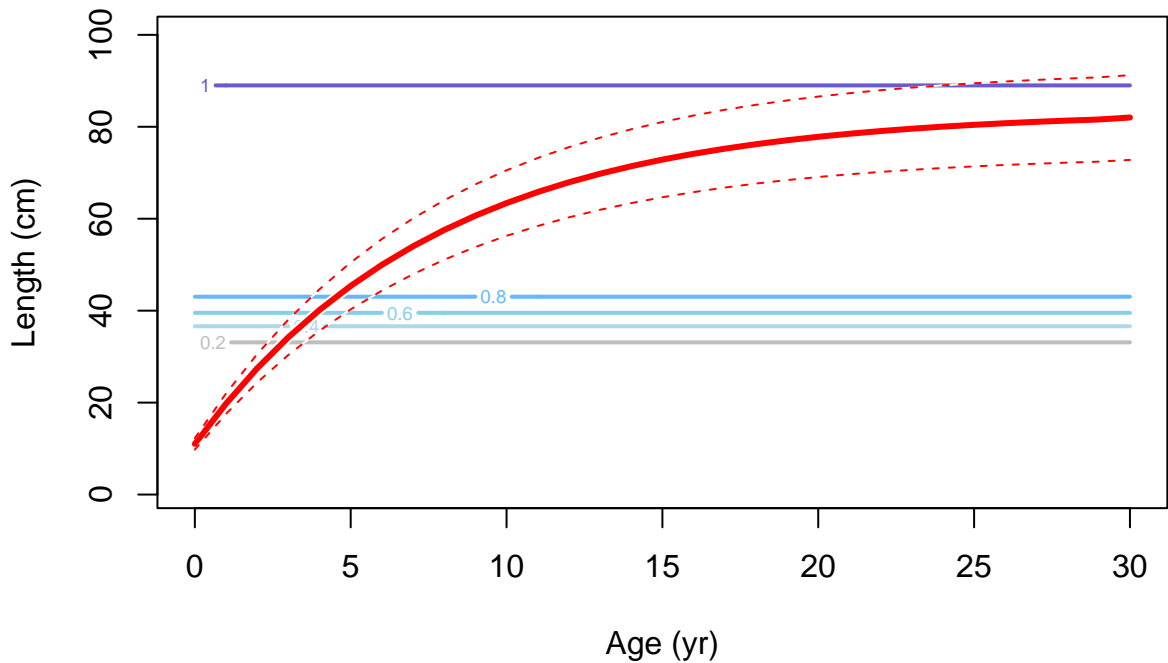


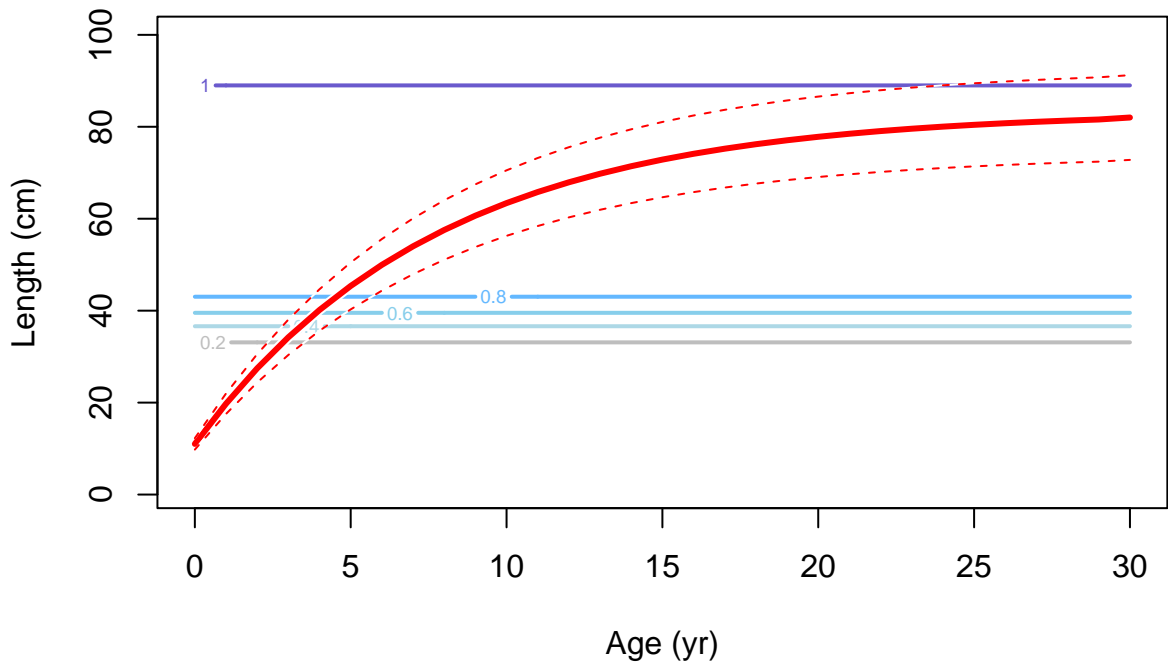
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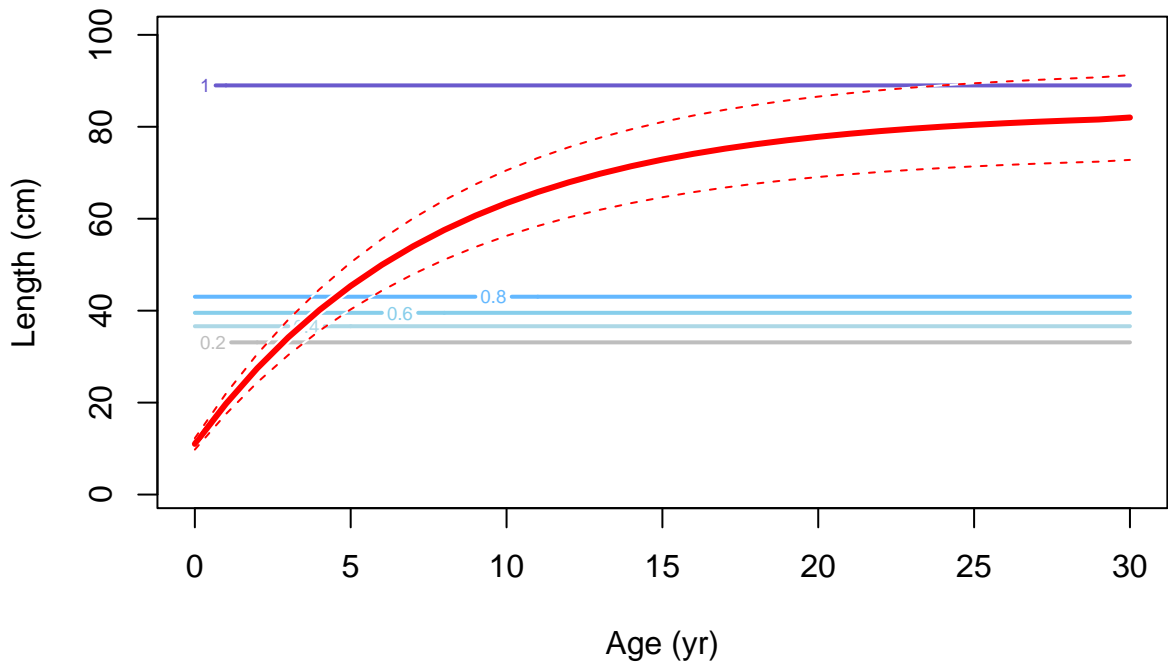
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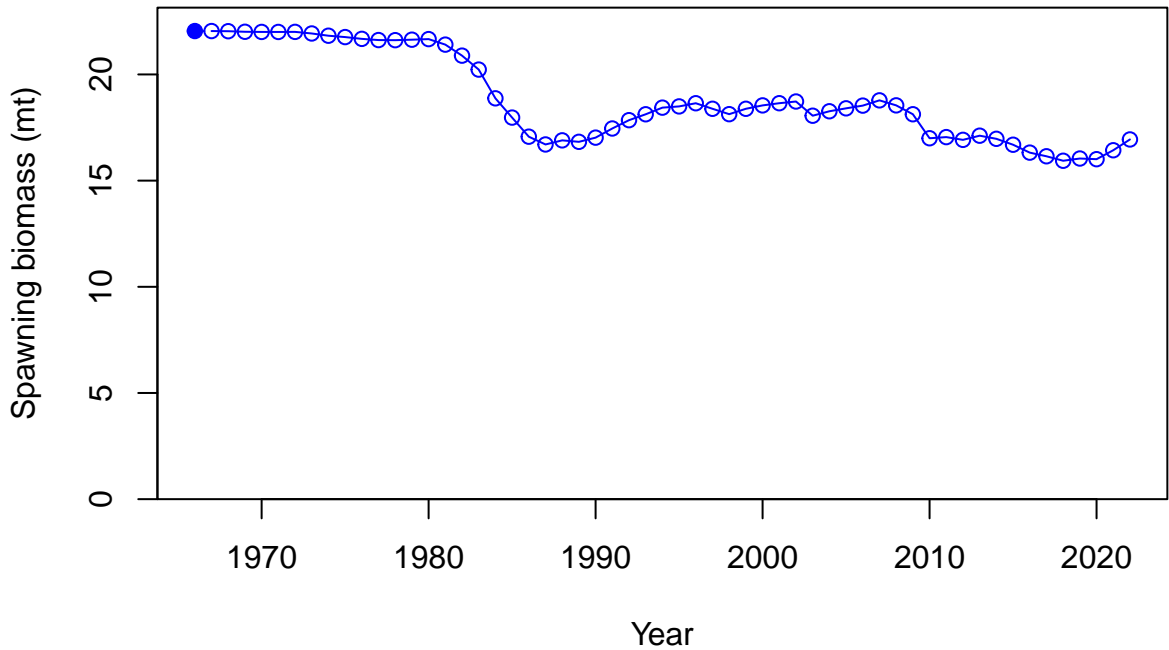




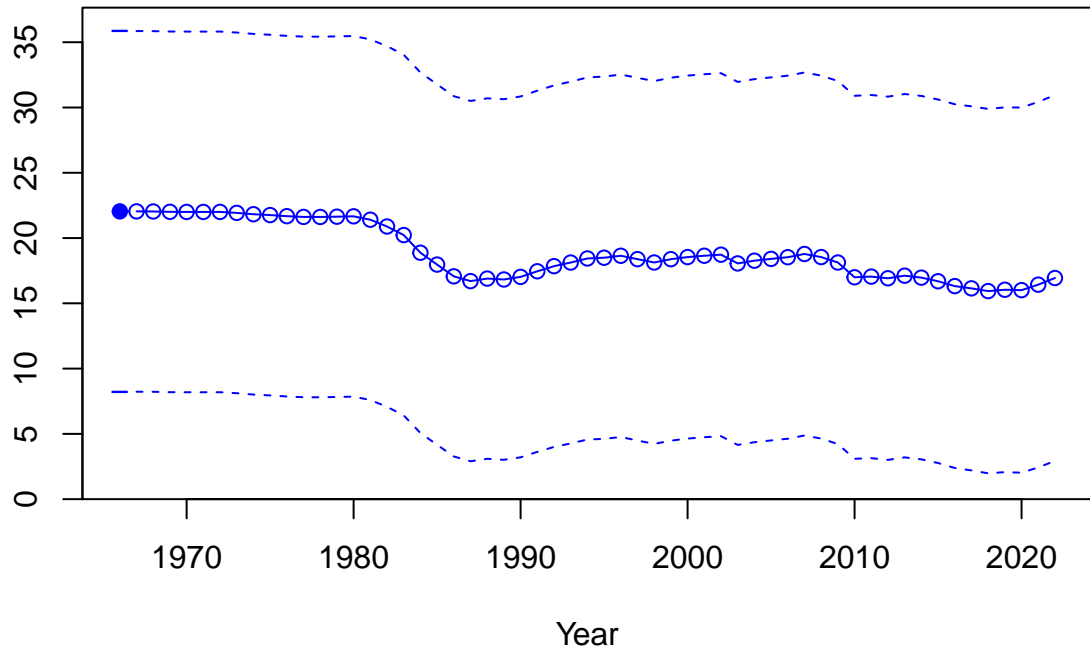




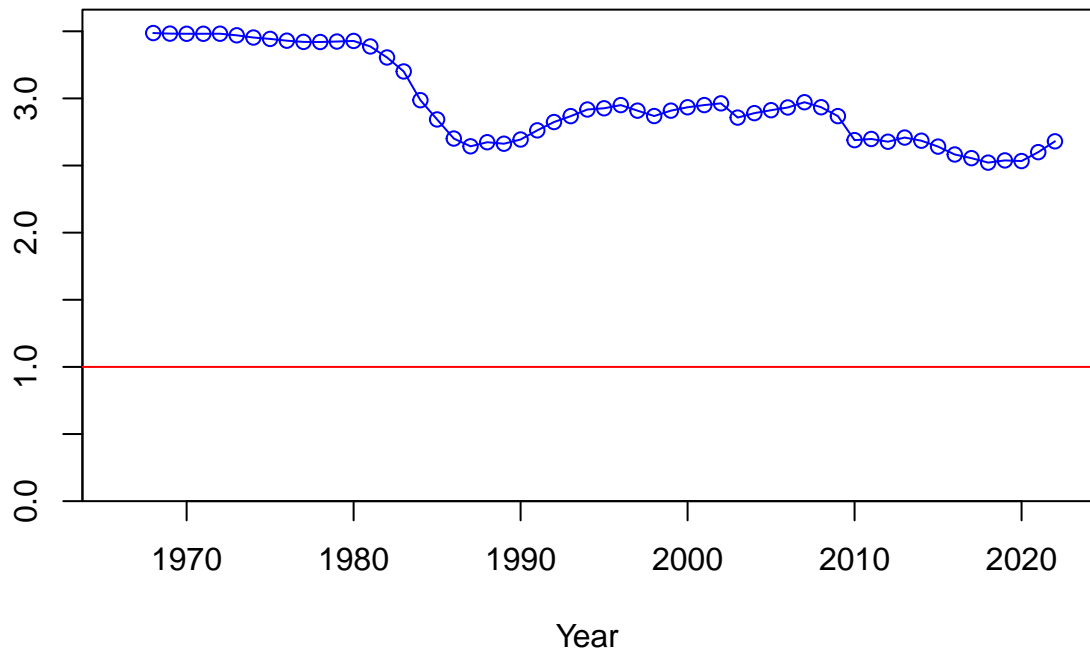




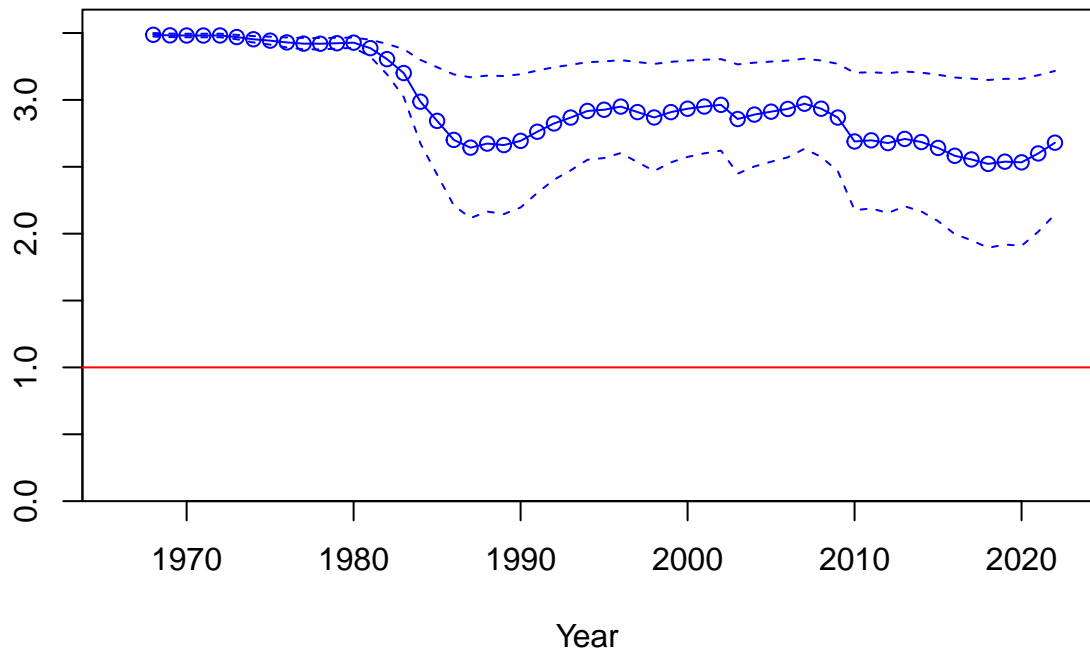
Spawning biomass (mt)

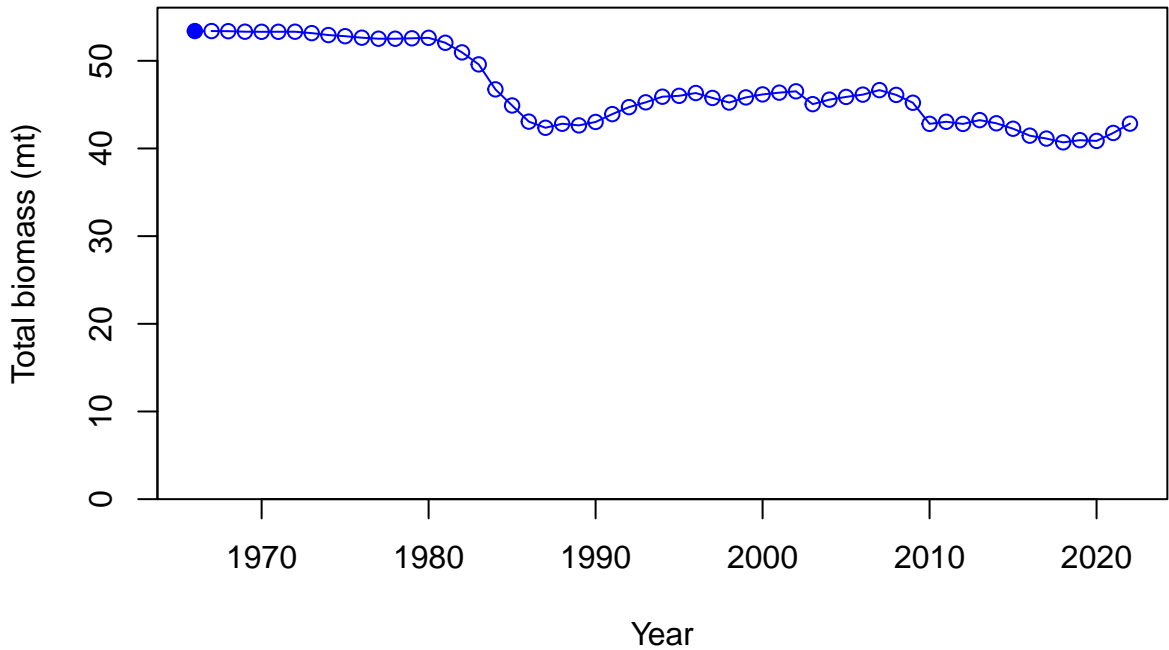


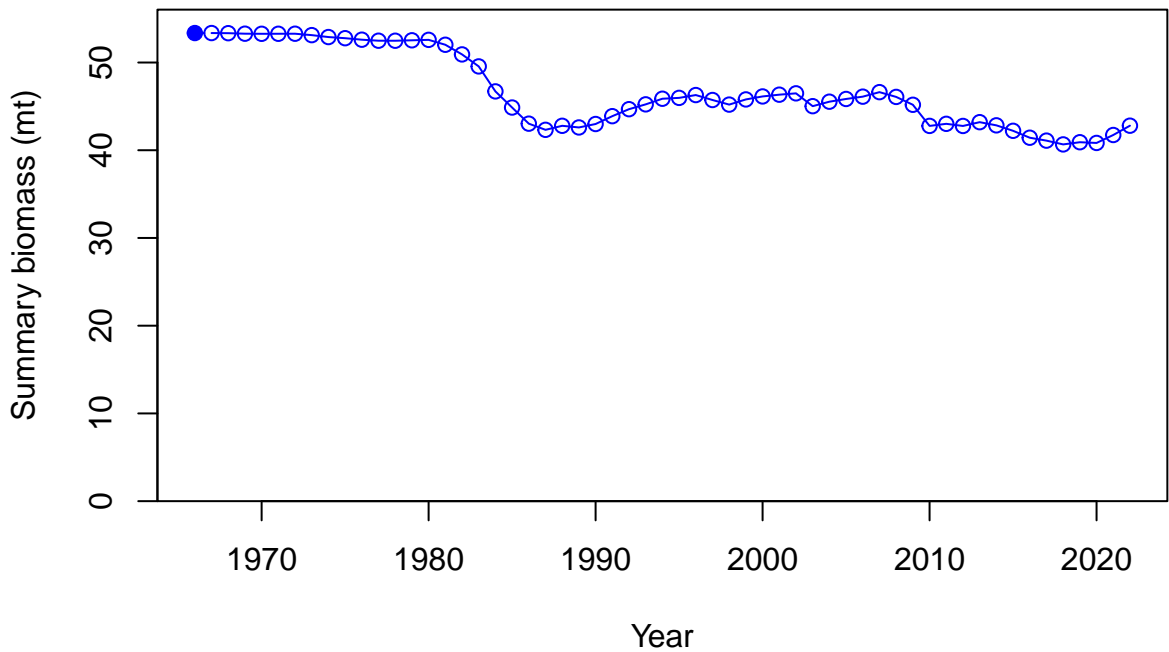
Relative spawning biomass:  $B/B_{MSY}$



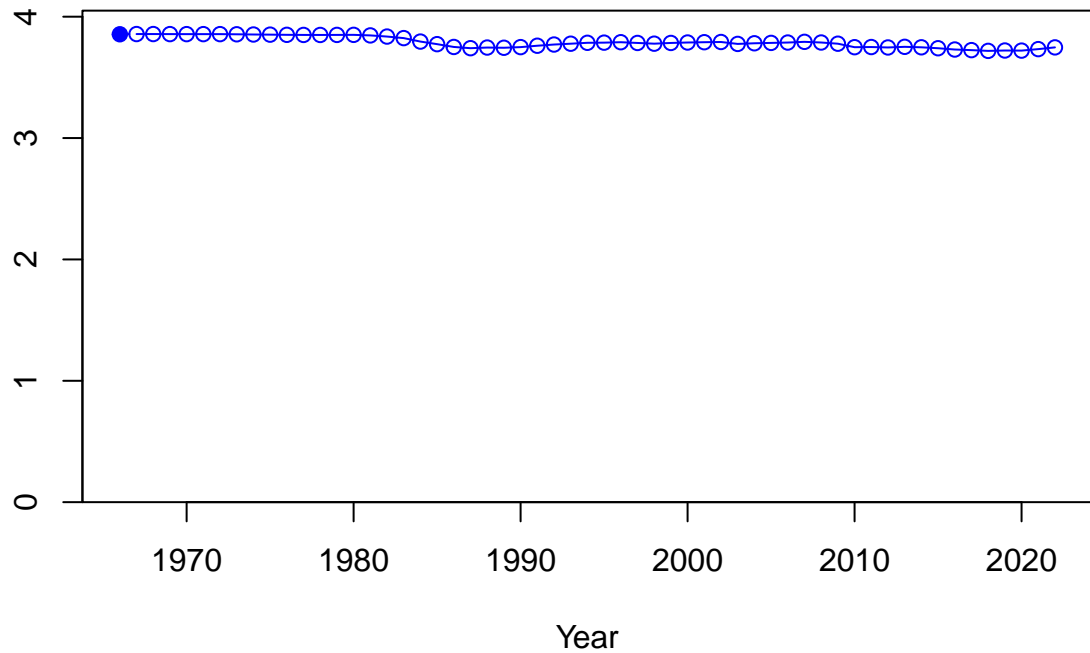
Relative spawning biomass:  $B/B_{MSY}$





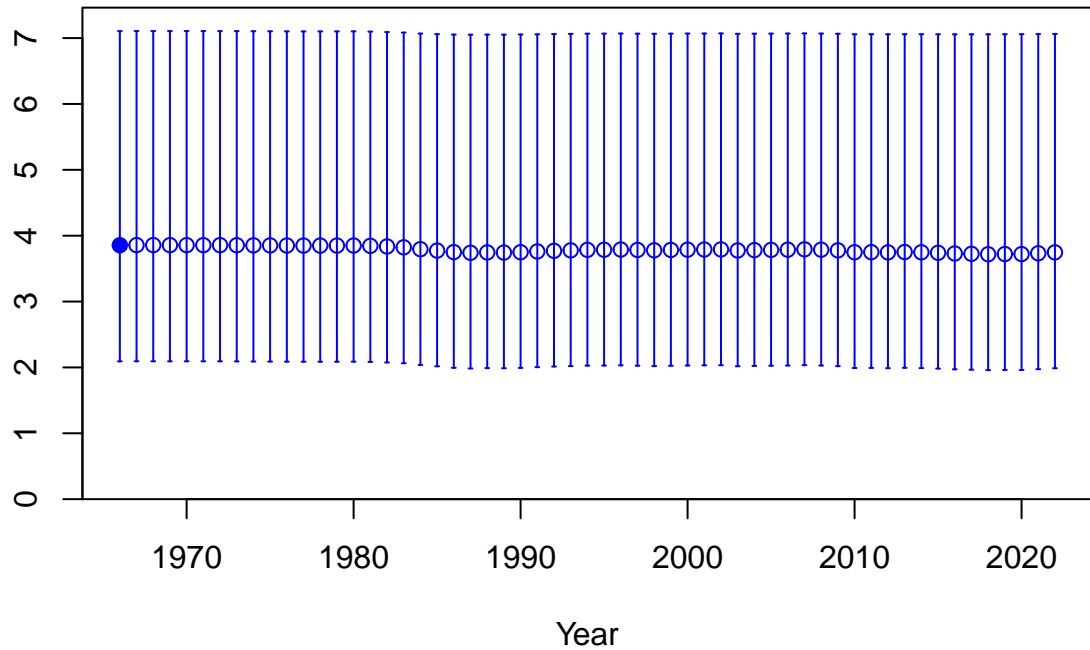


Age-0 recruits (1,000s)

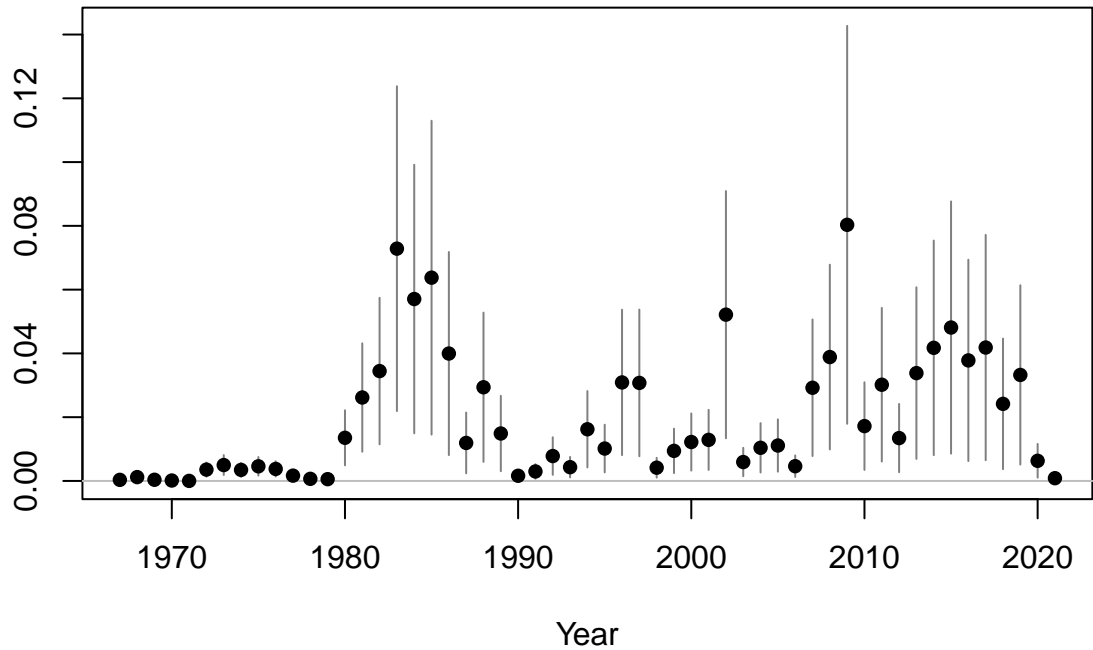


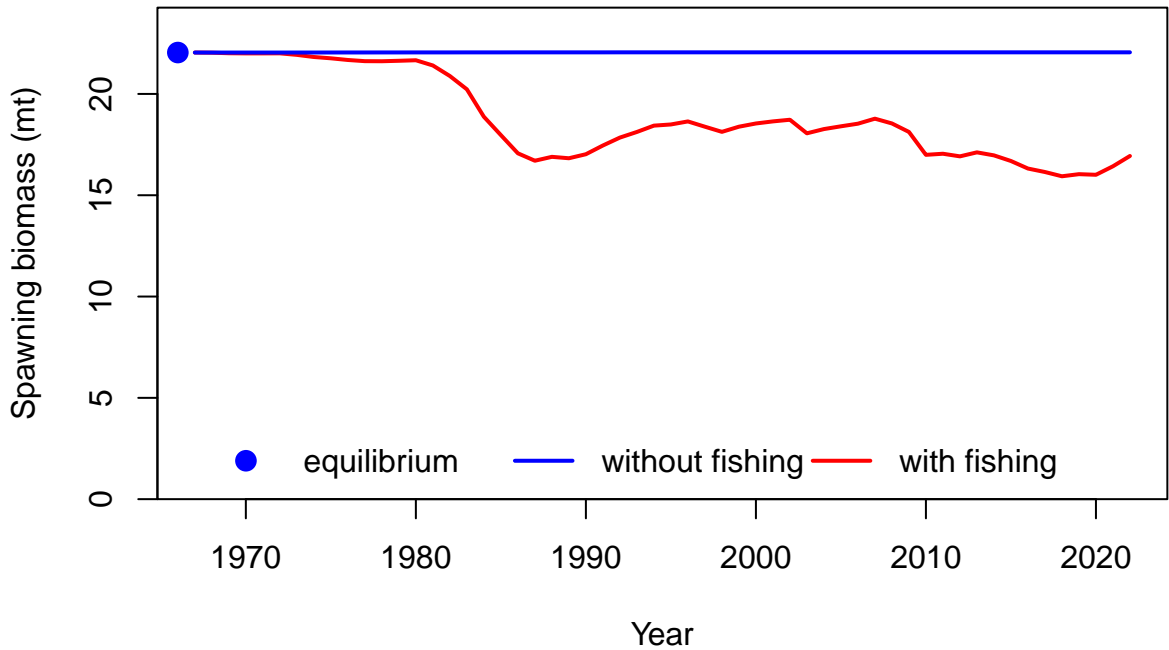


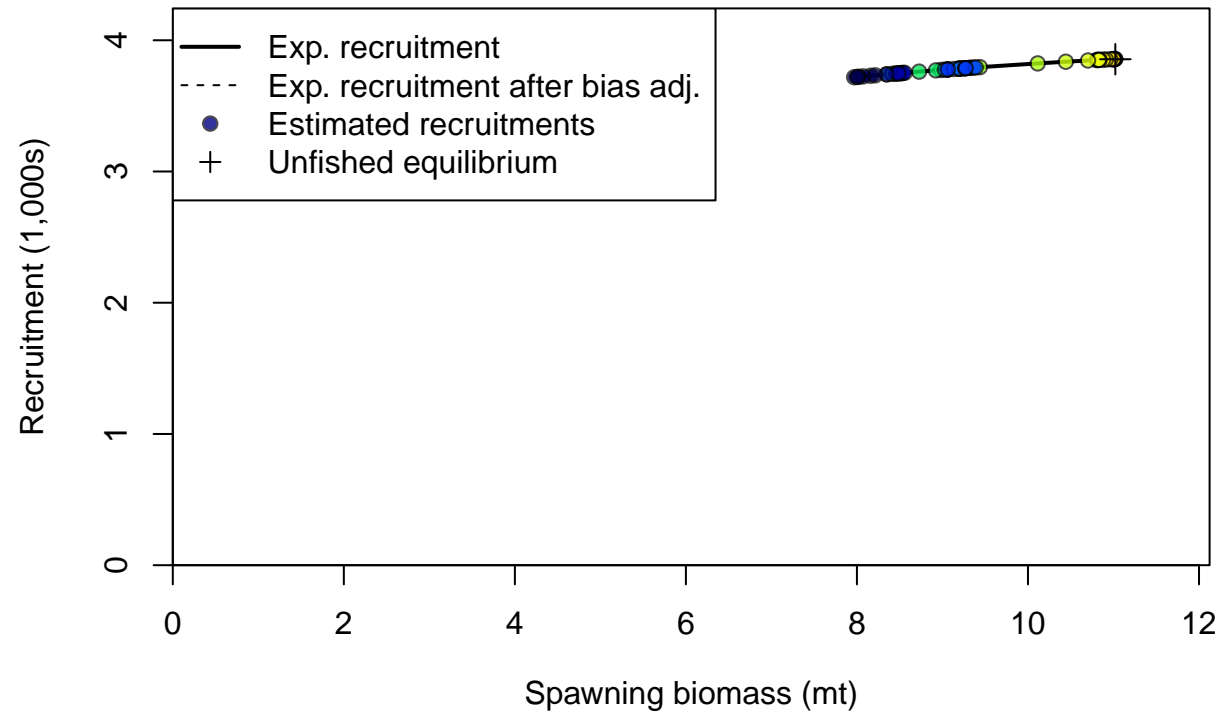
Age-0 recruits (1,000s)

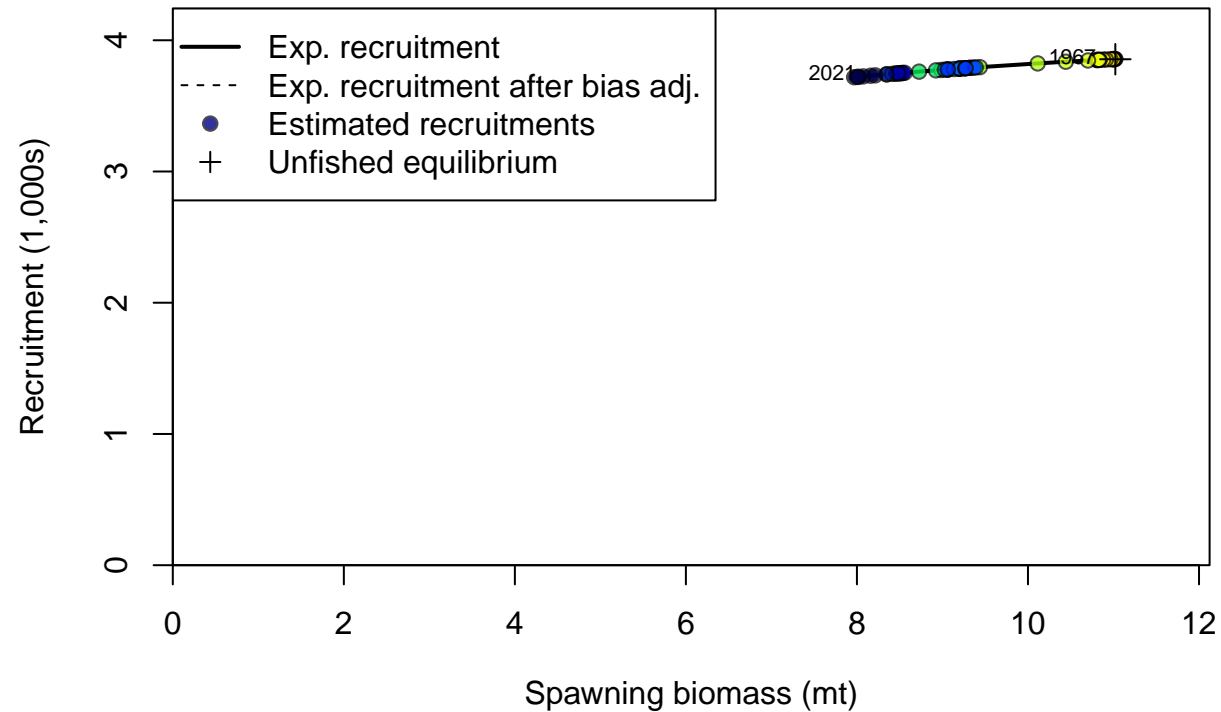


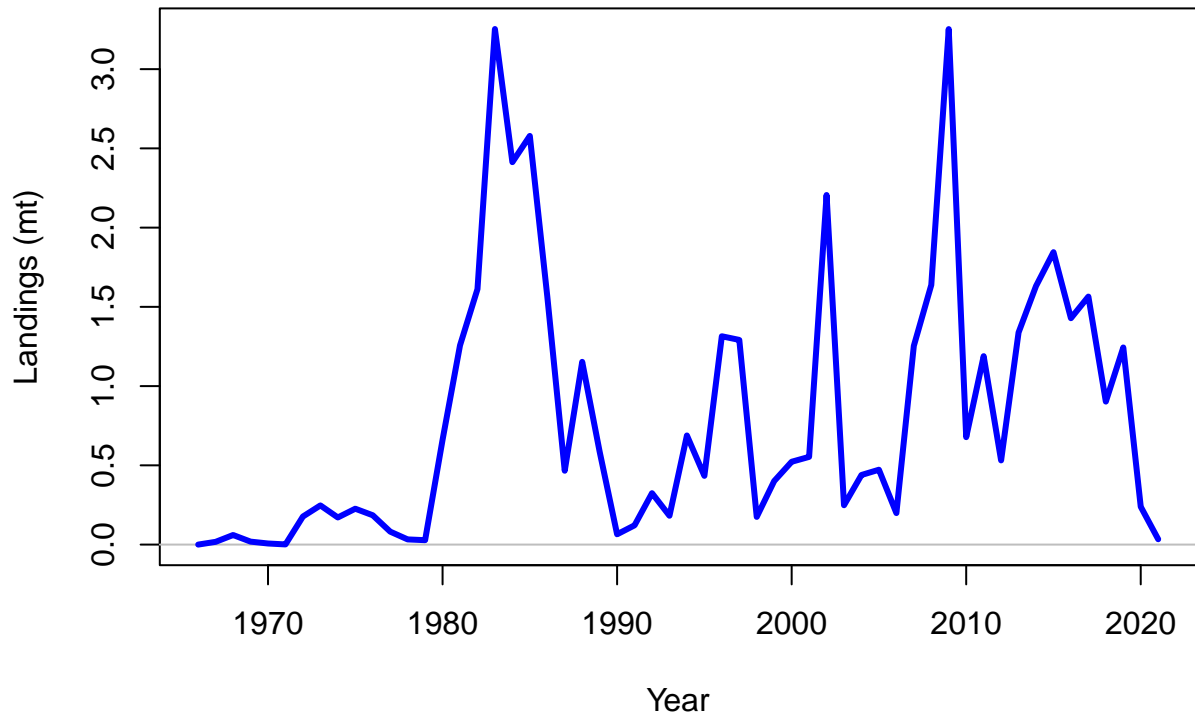
Summary Fishing Mortality

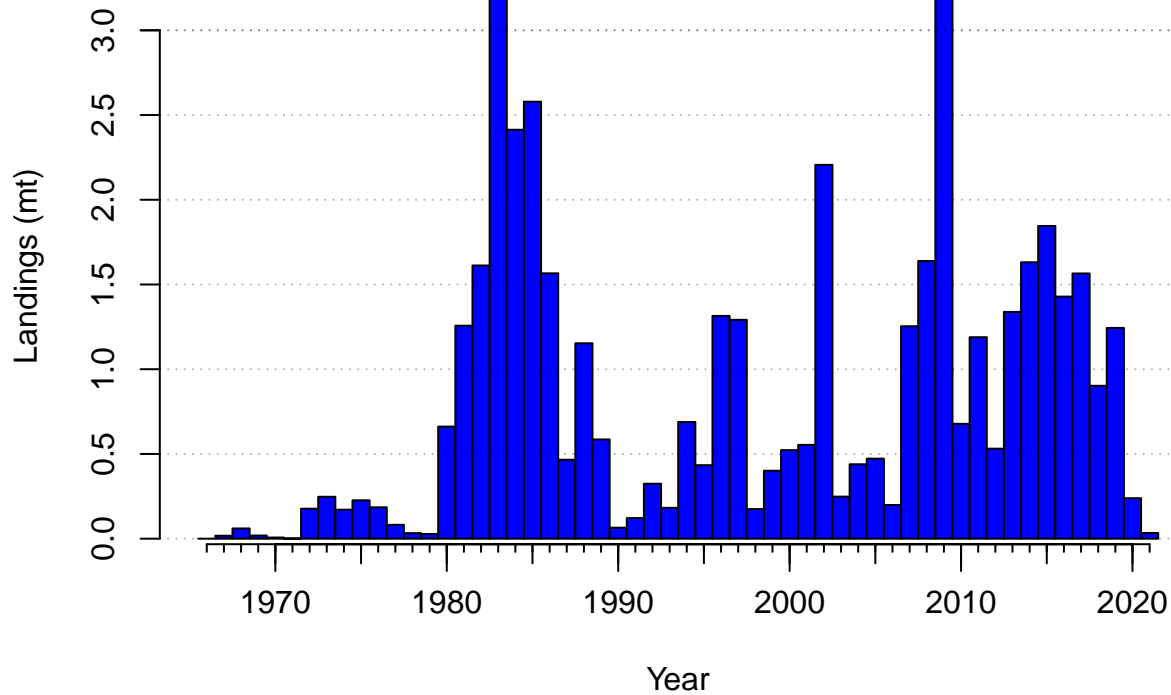


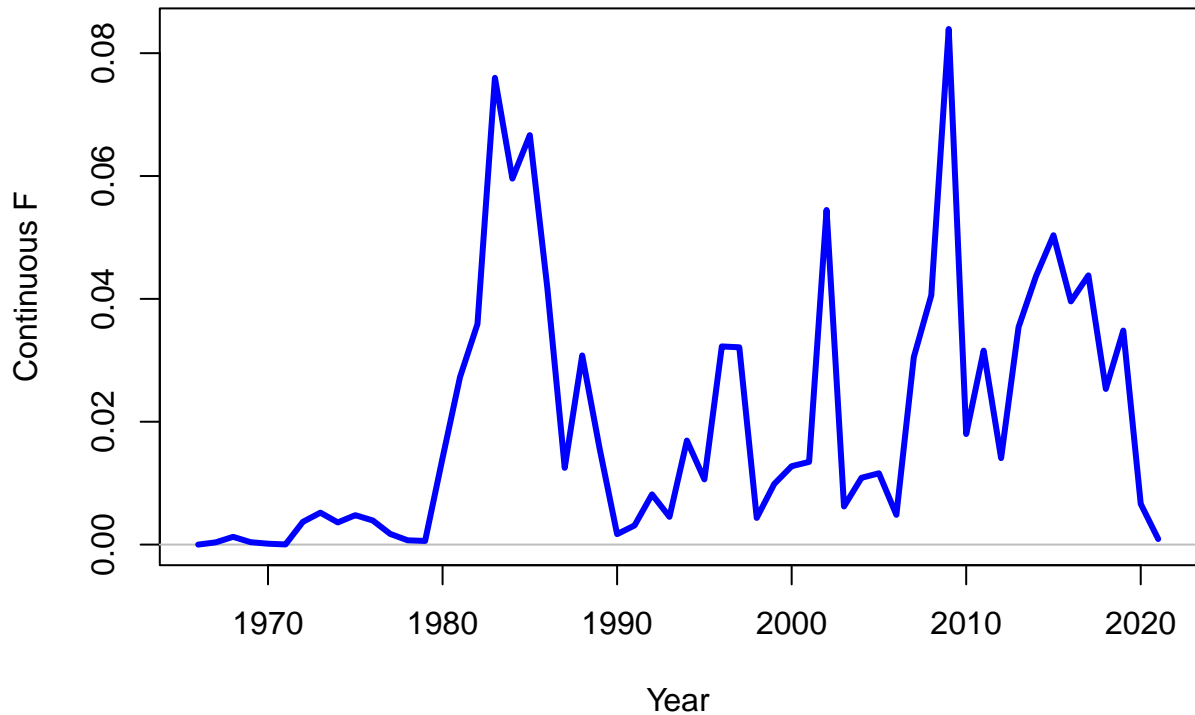






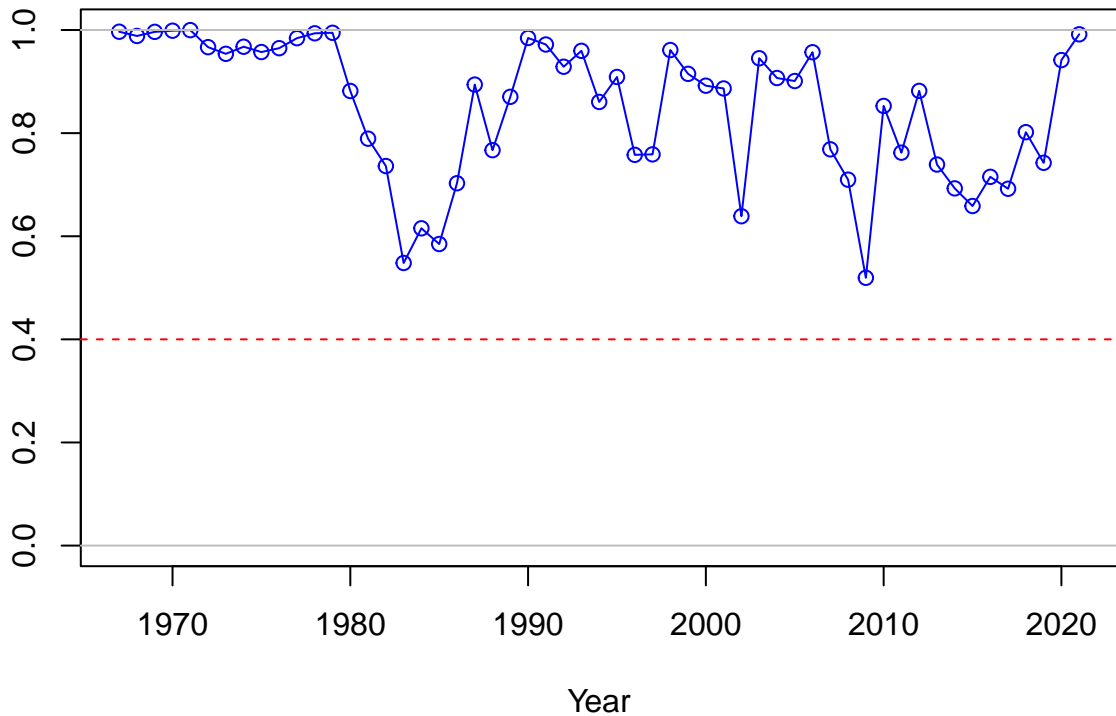




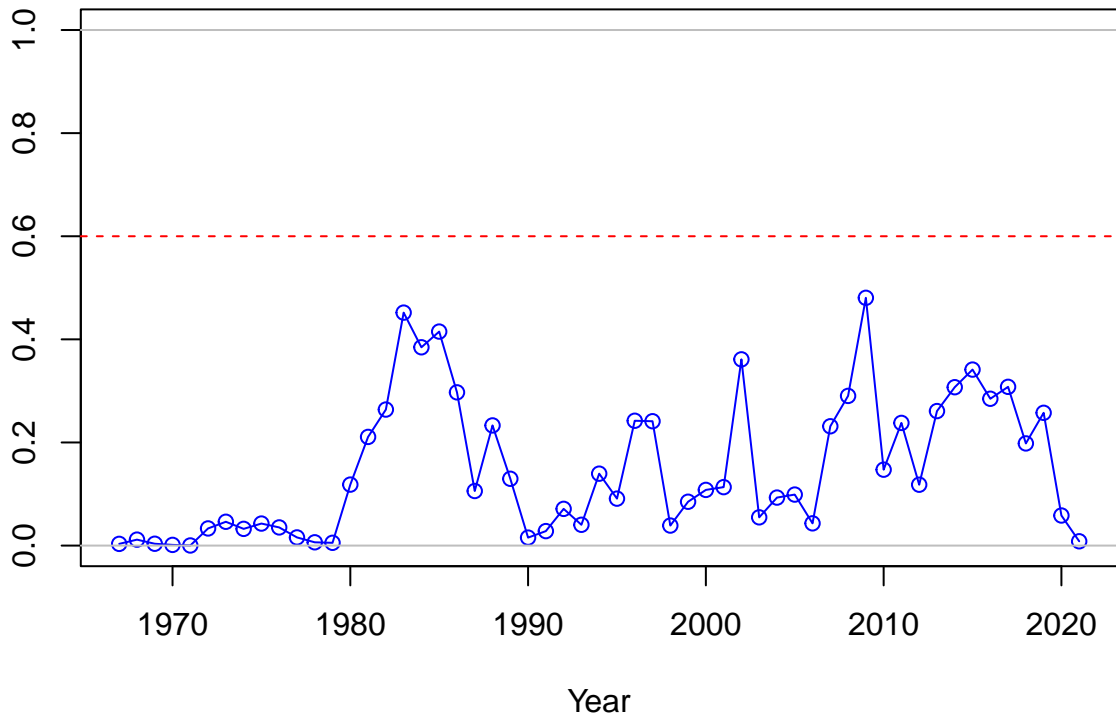




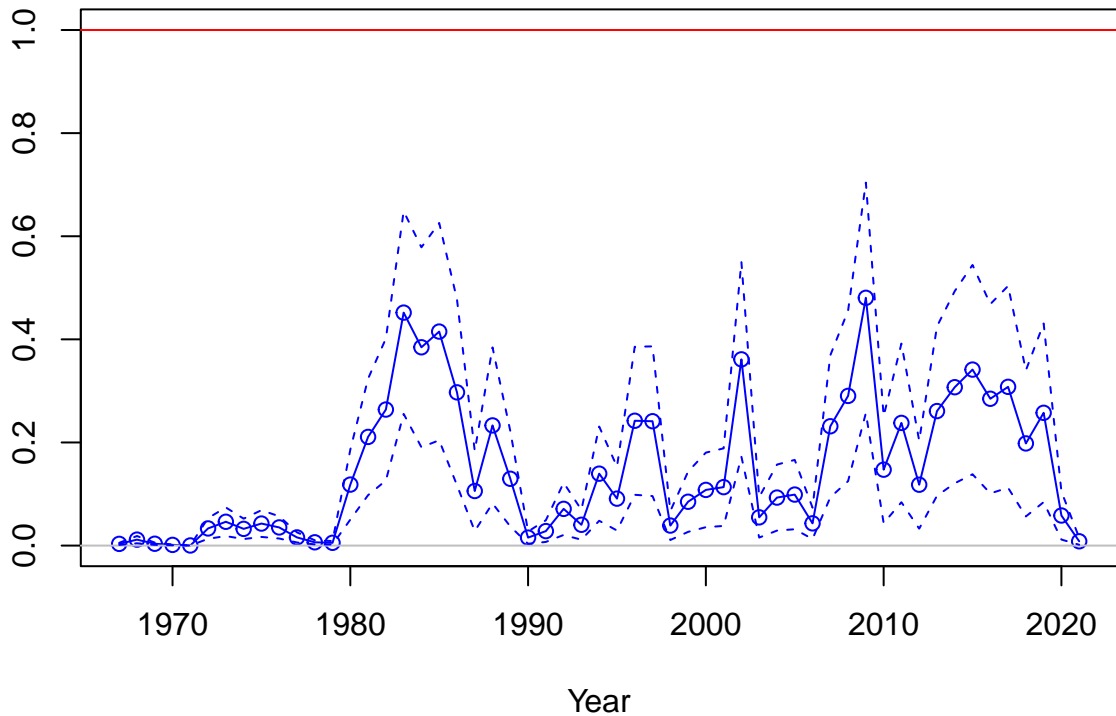
SPR



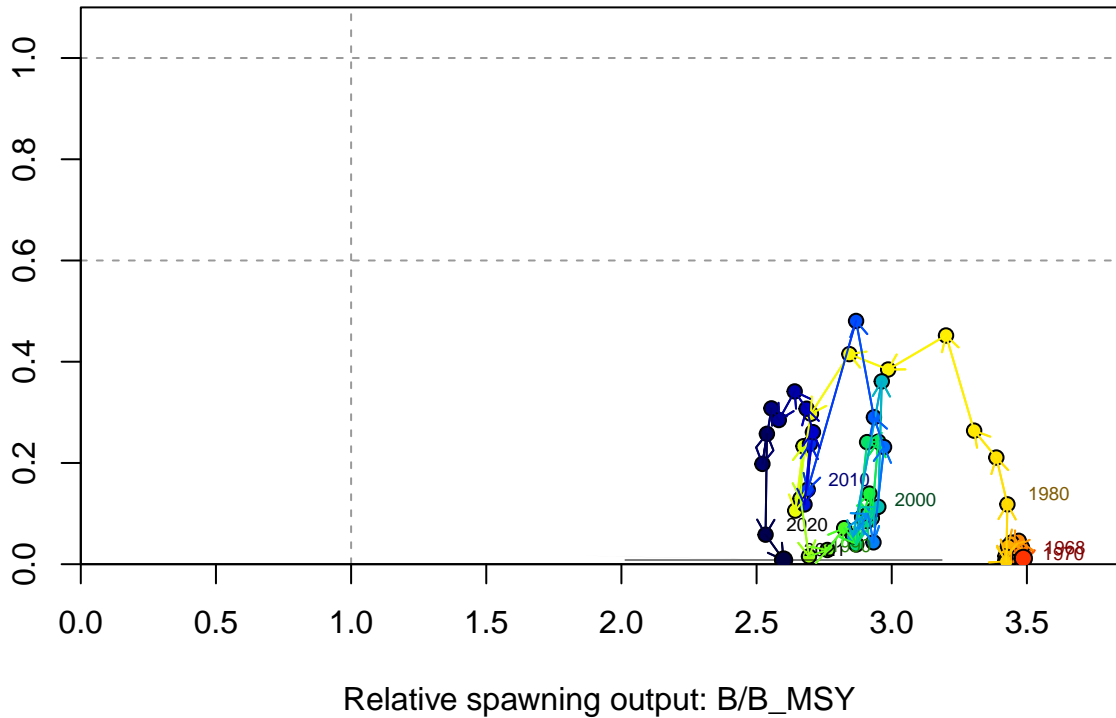
1-SPR

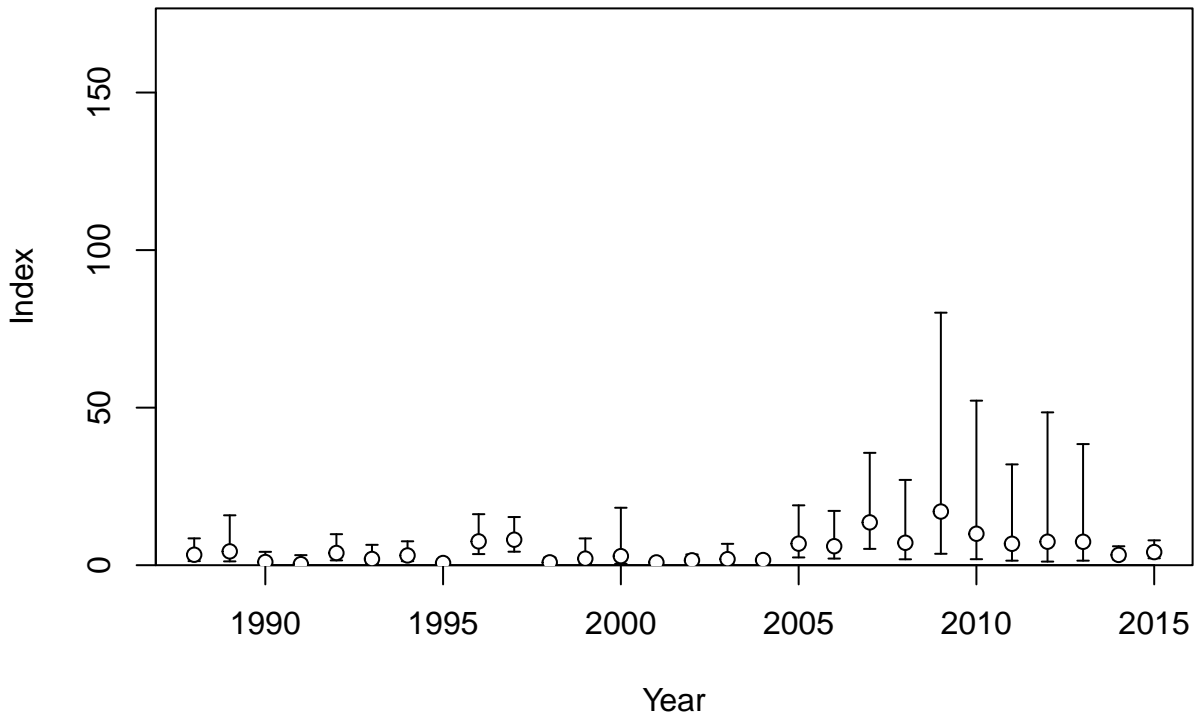


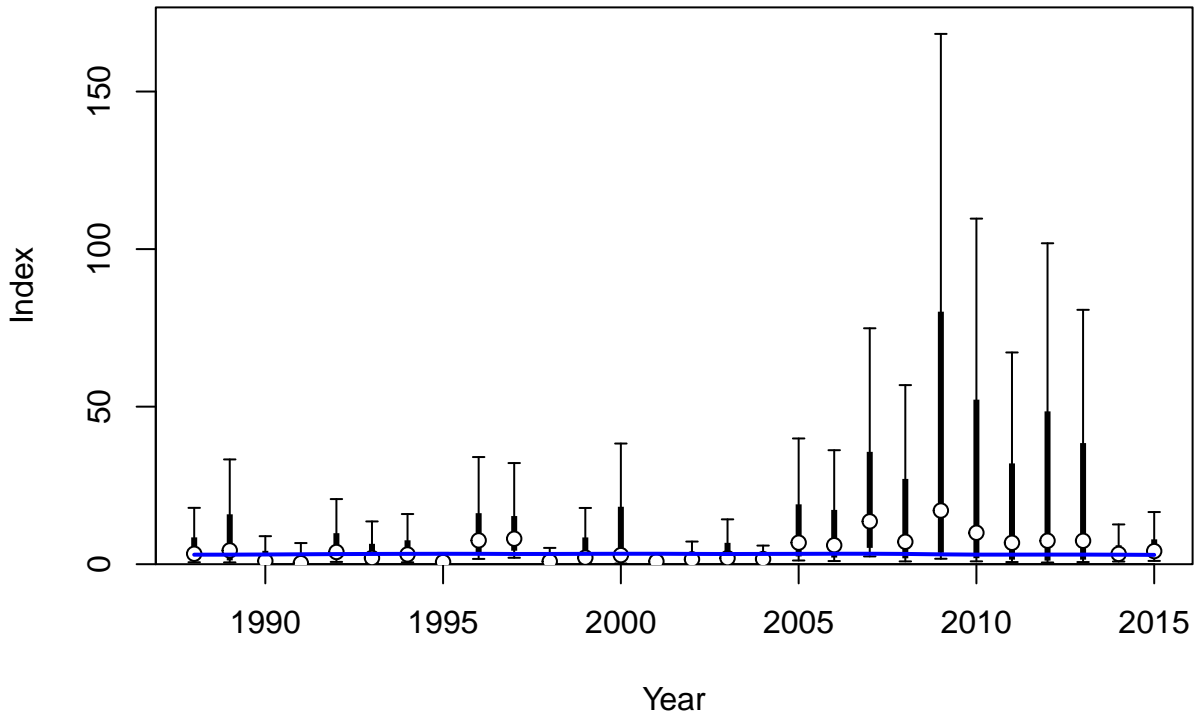
Fishing intensity: 1-SPR

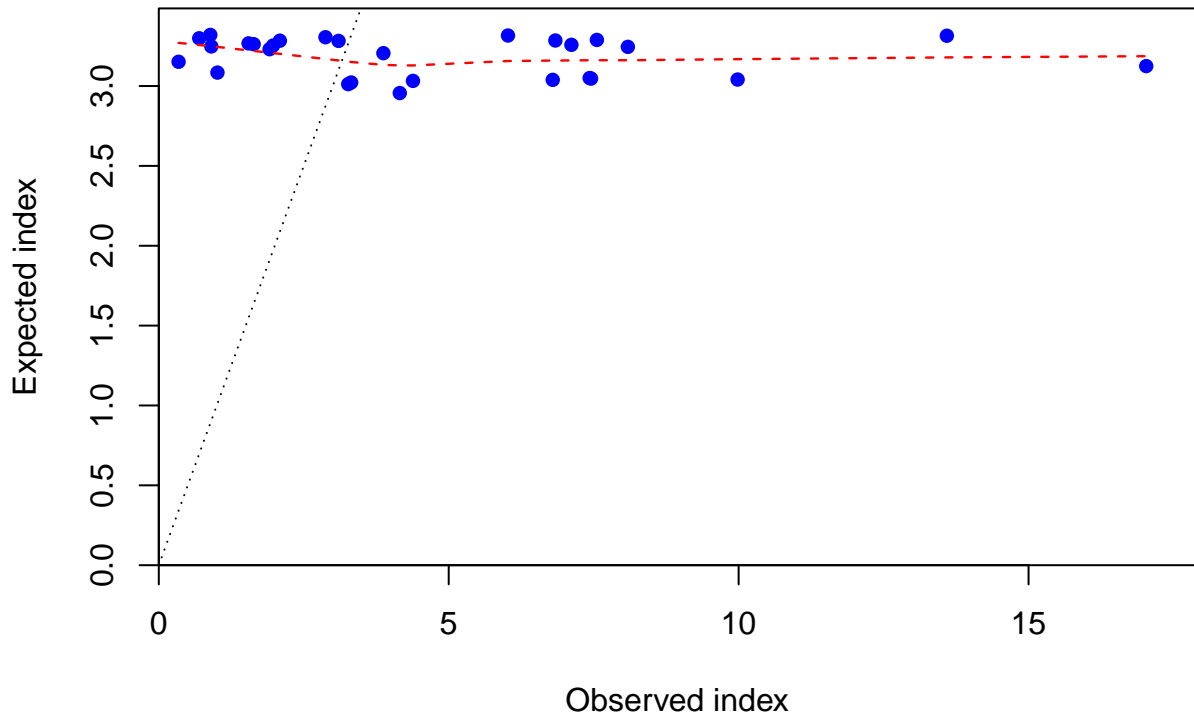


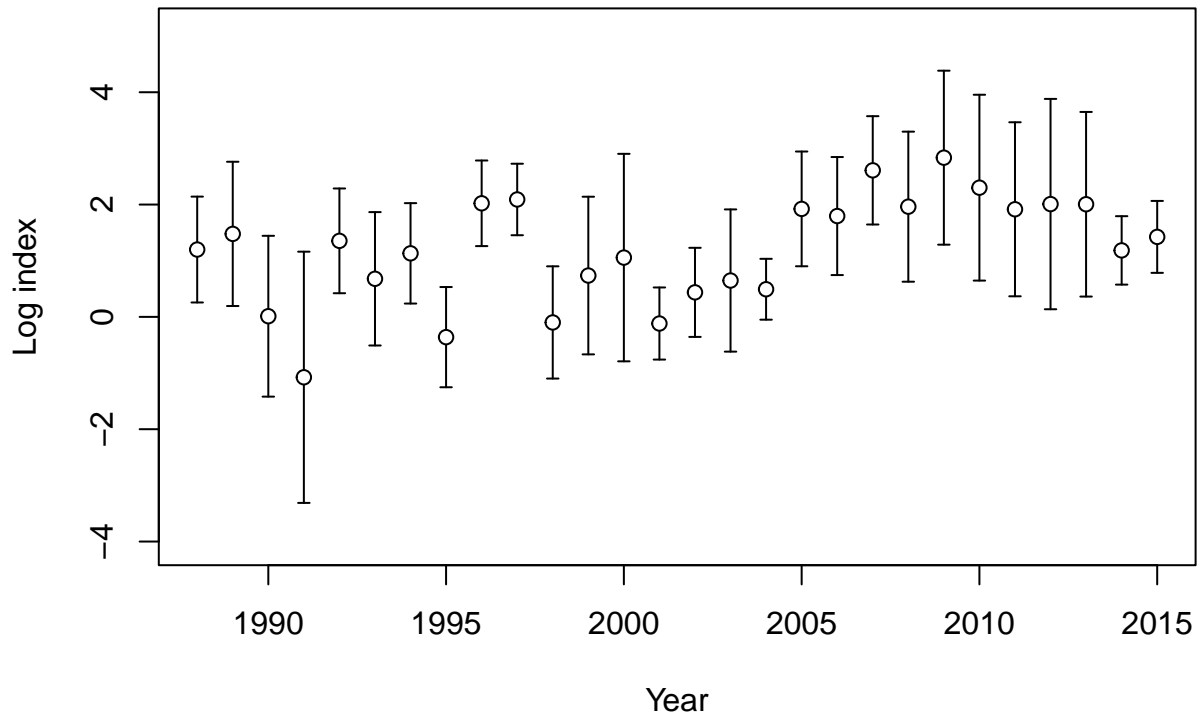
Fishing intensity: 1-SPR



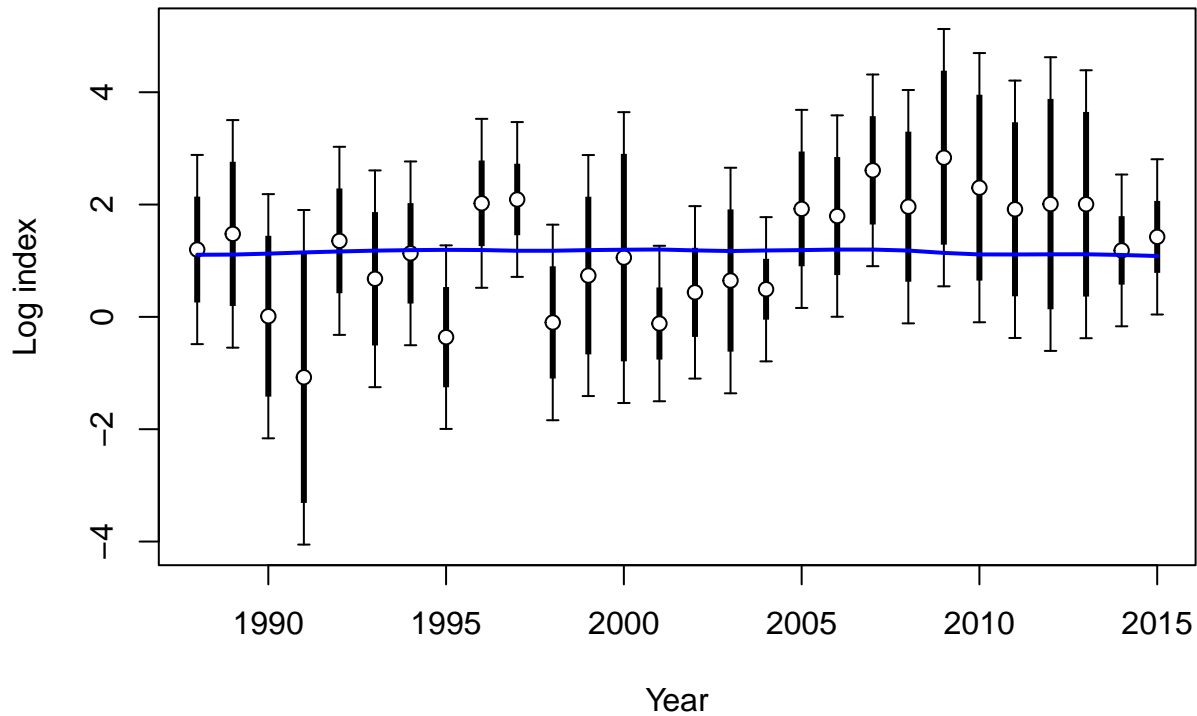




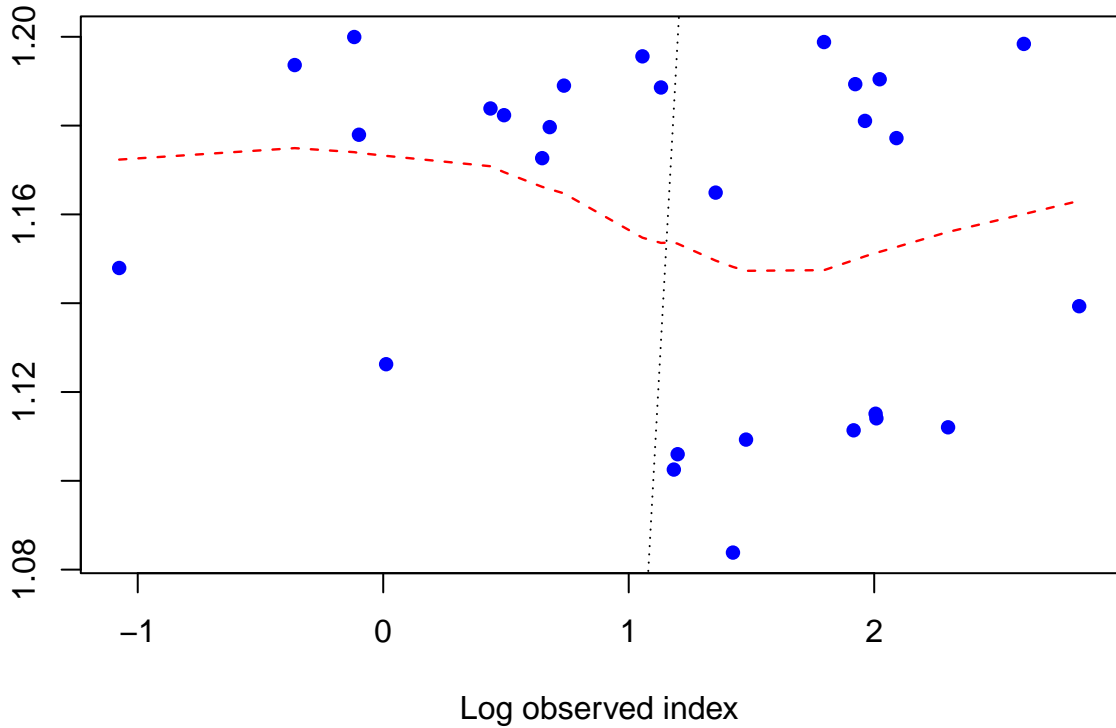


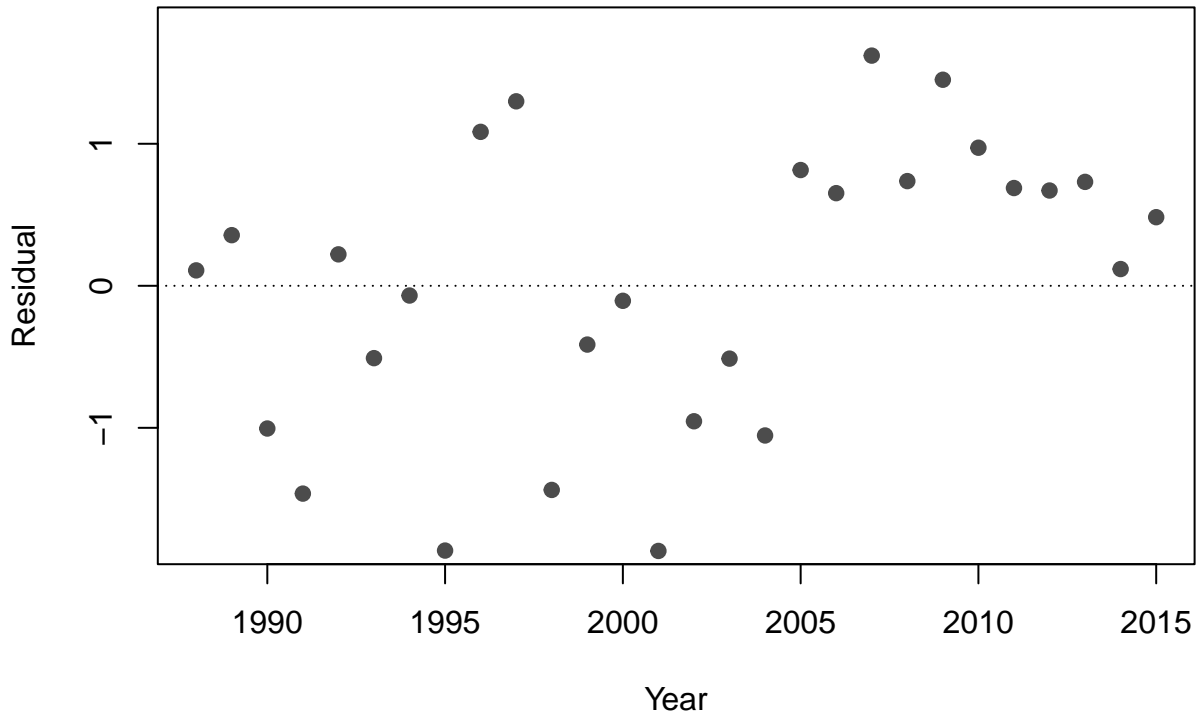


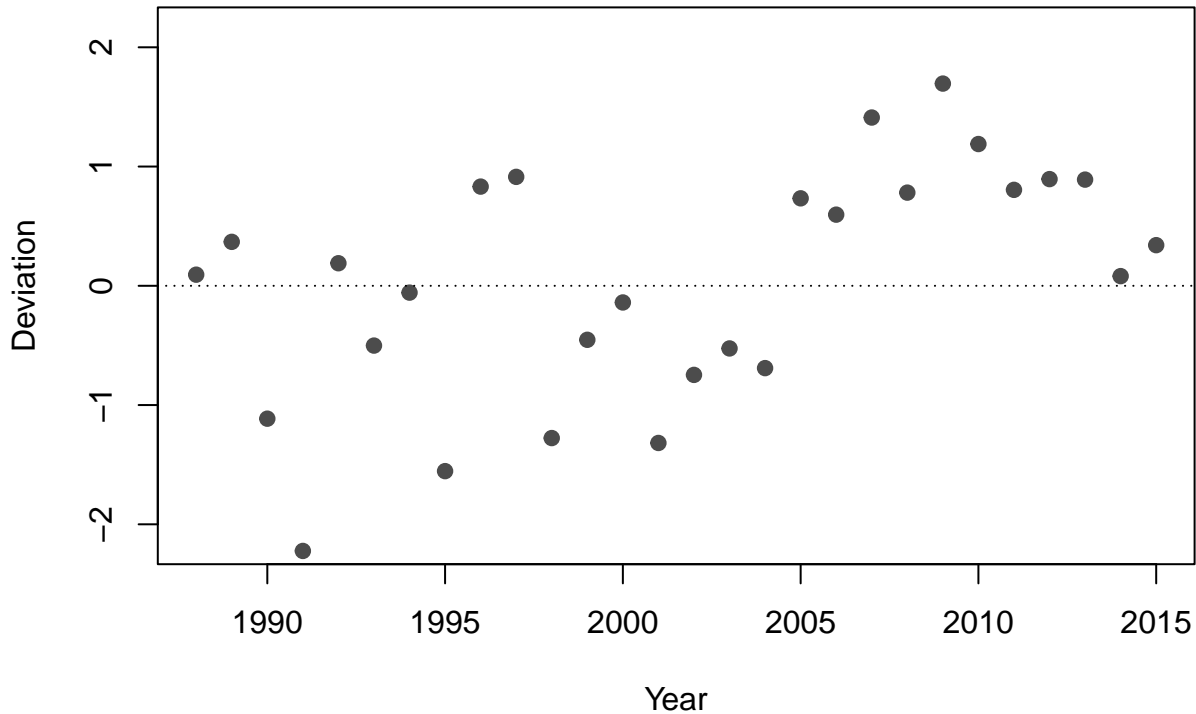




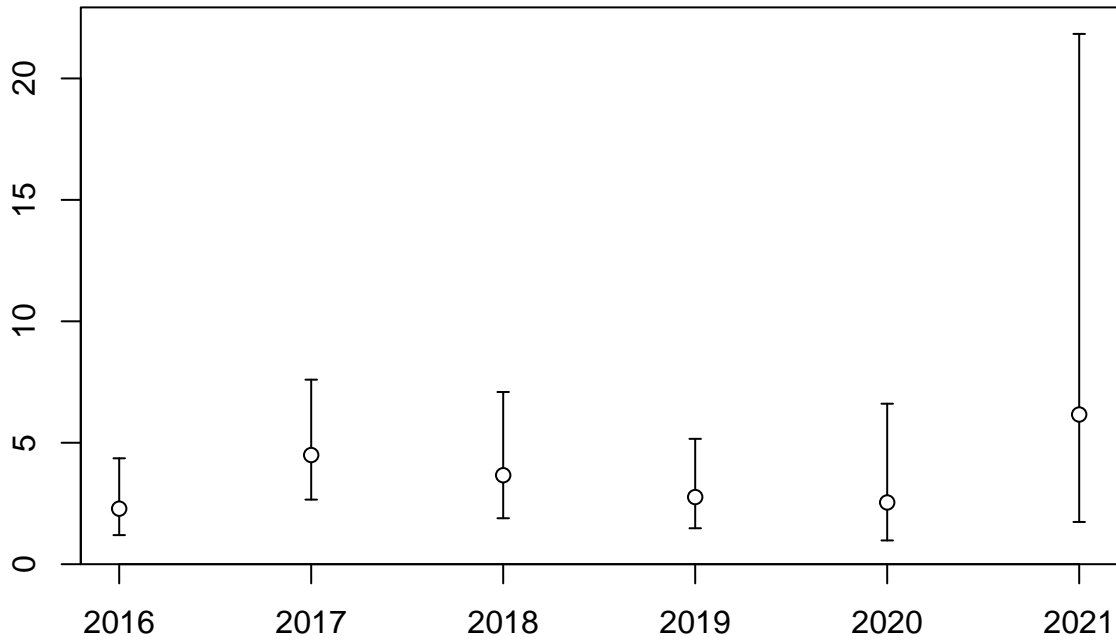
Log expected index





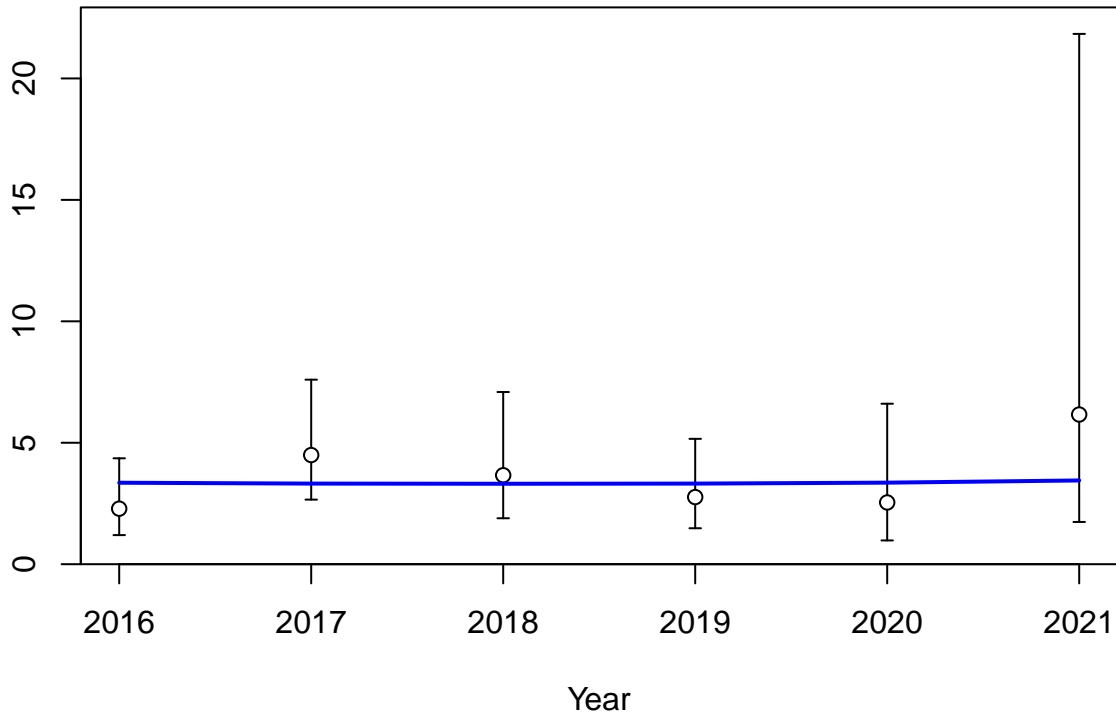


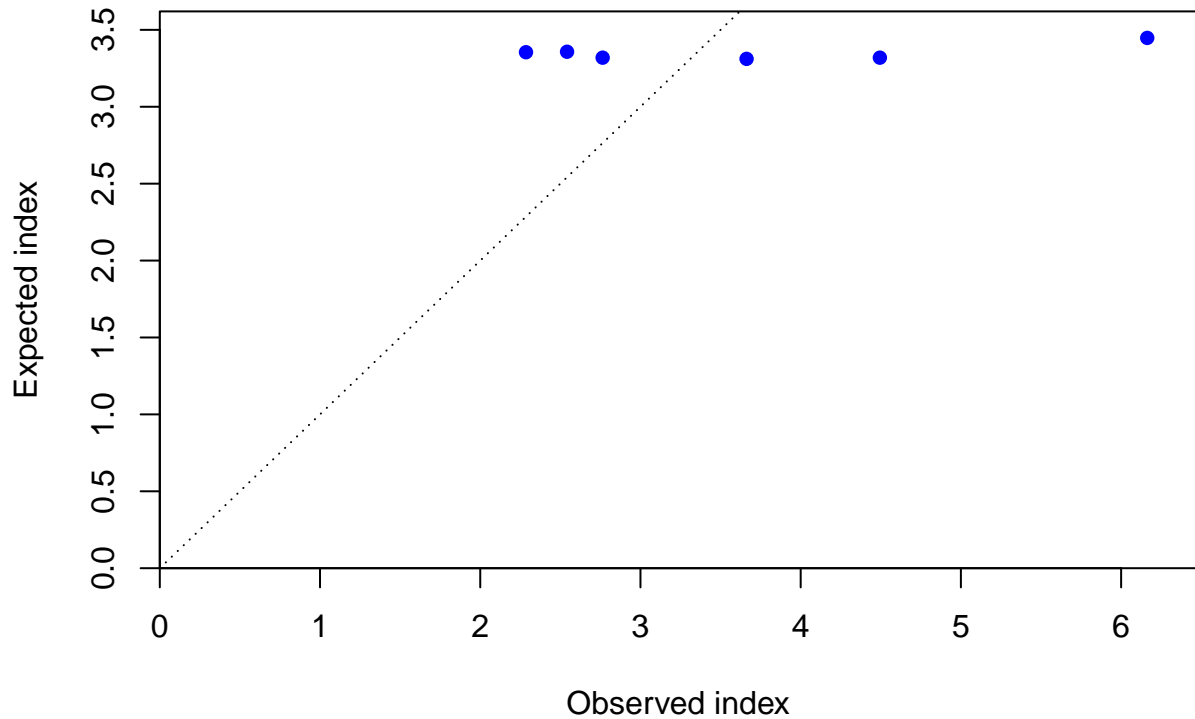
Index



Year

Index





Log index

3.0  
2.5  
2.0  
1.5  
1.0  
0.5  
0.0

2016

2017

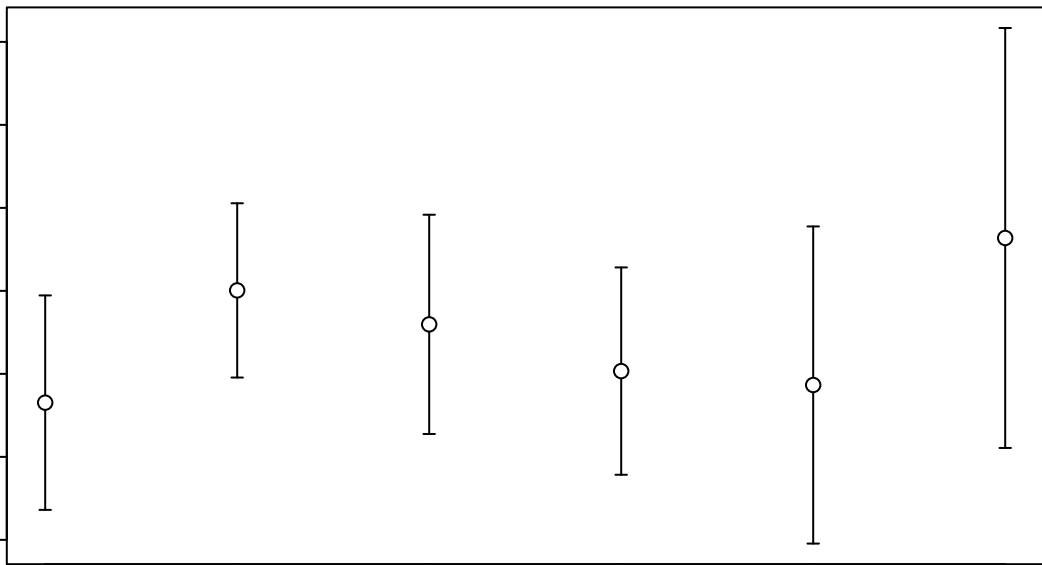
2018

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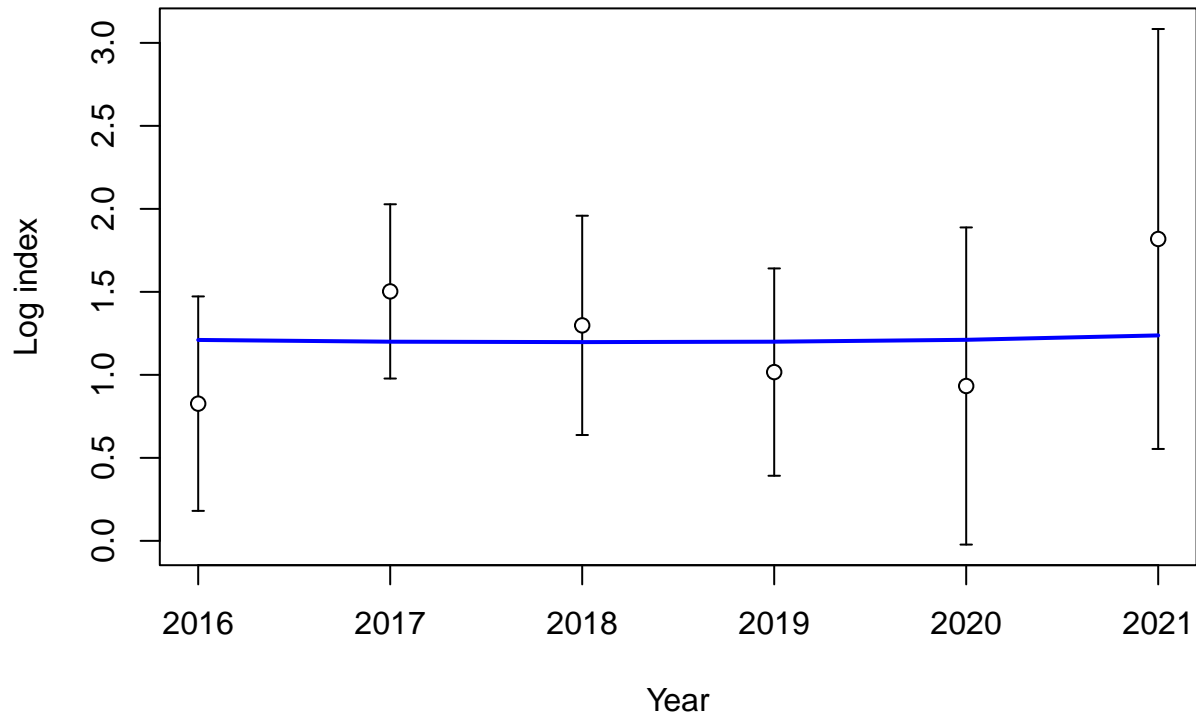
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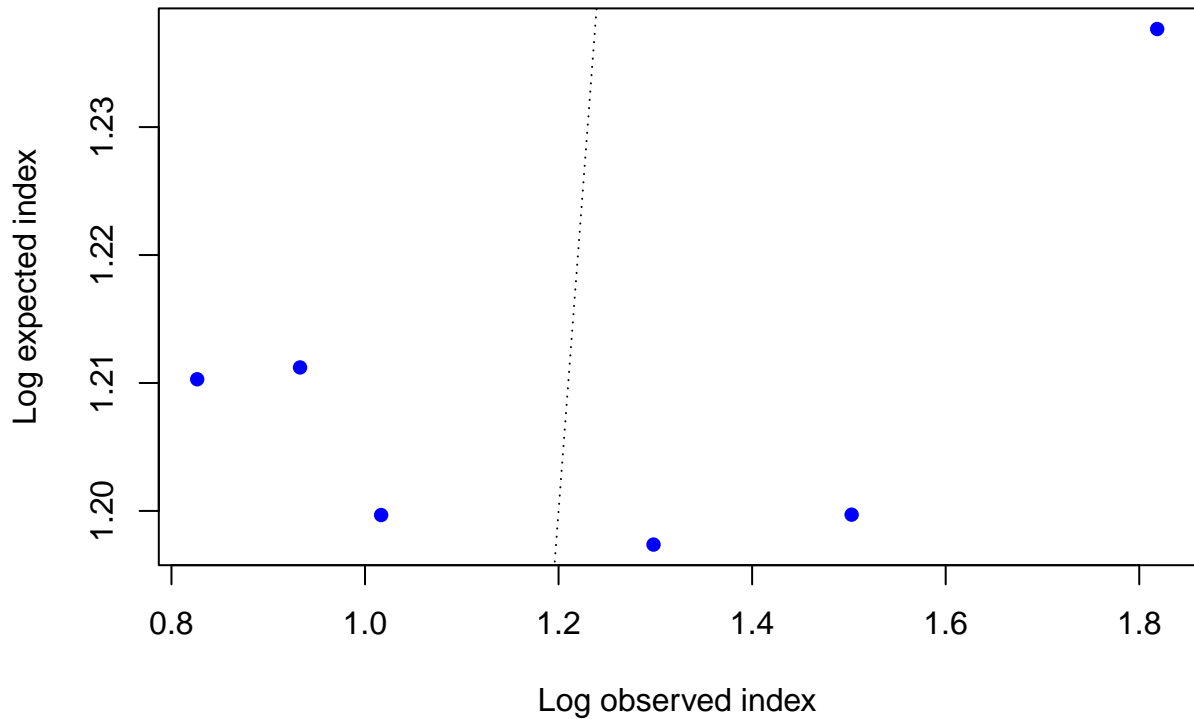
2021

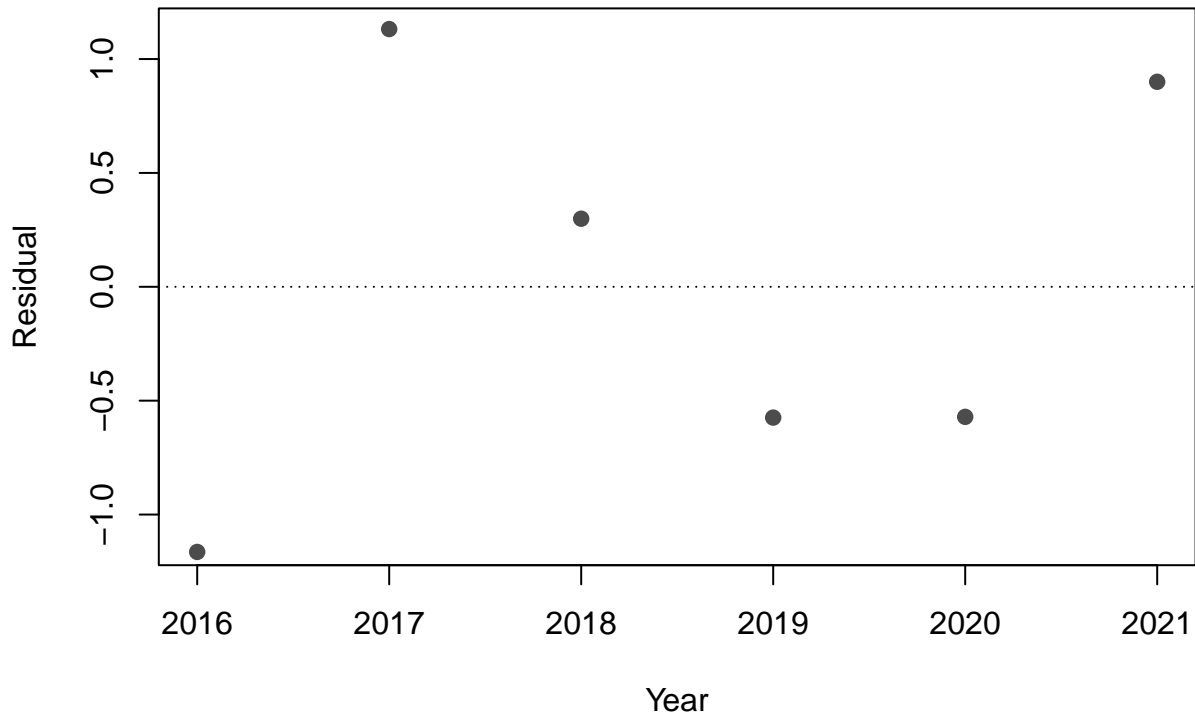
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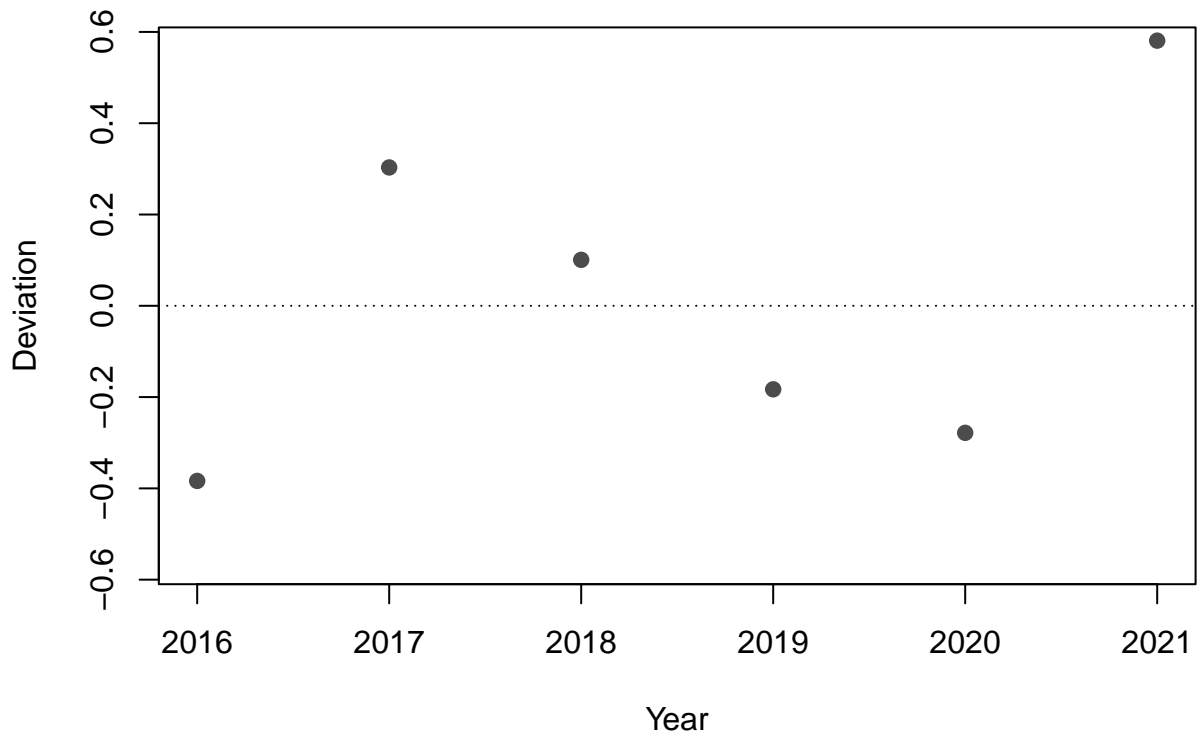


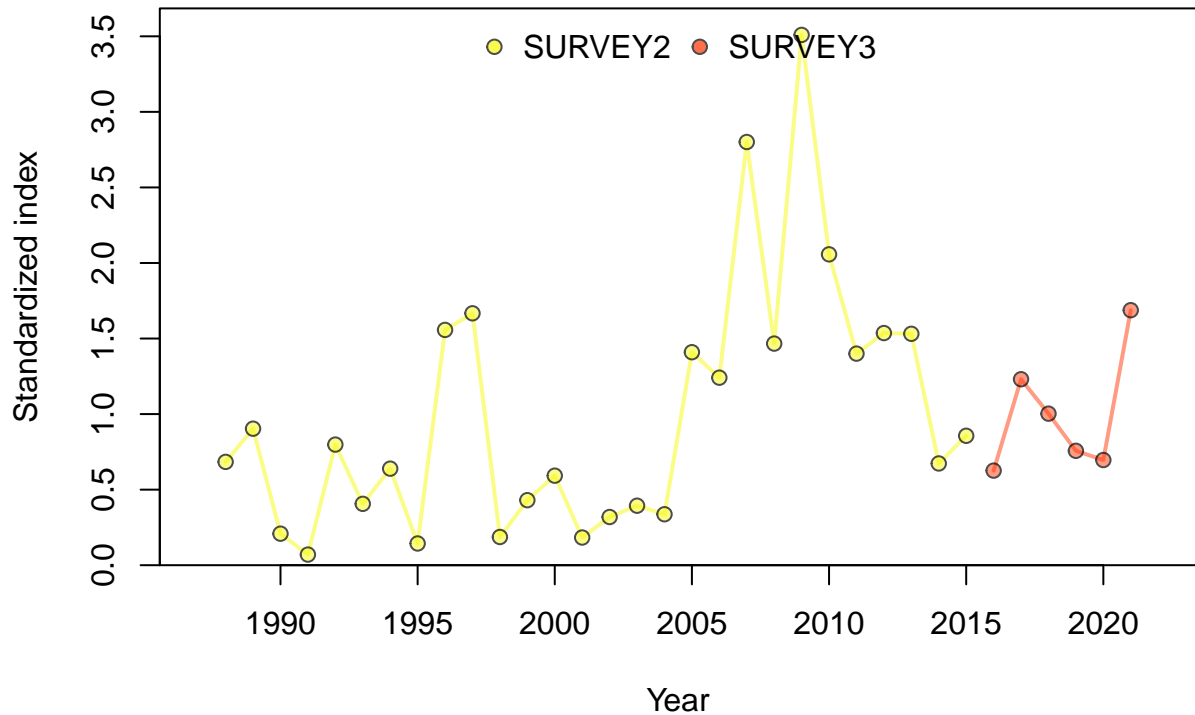


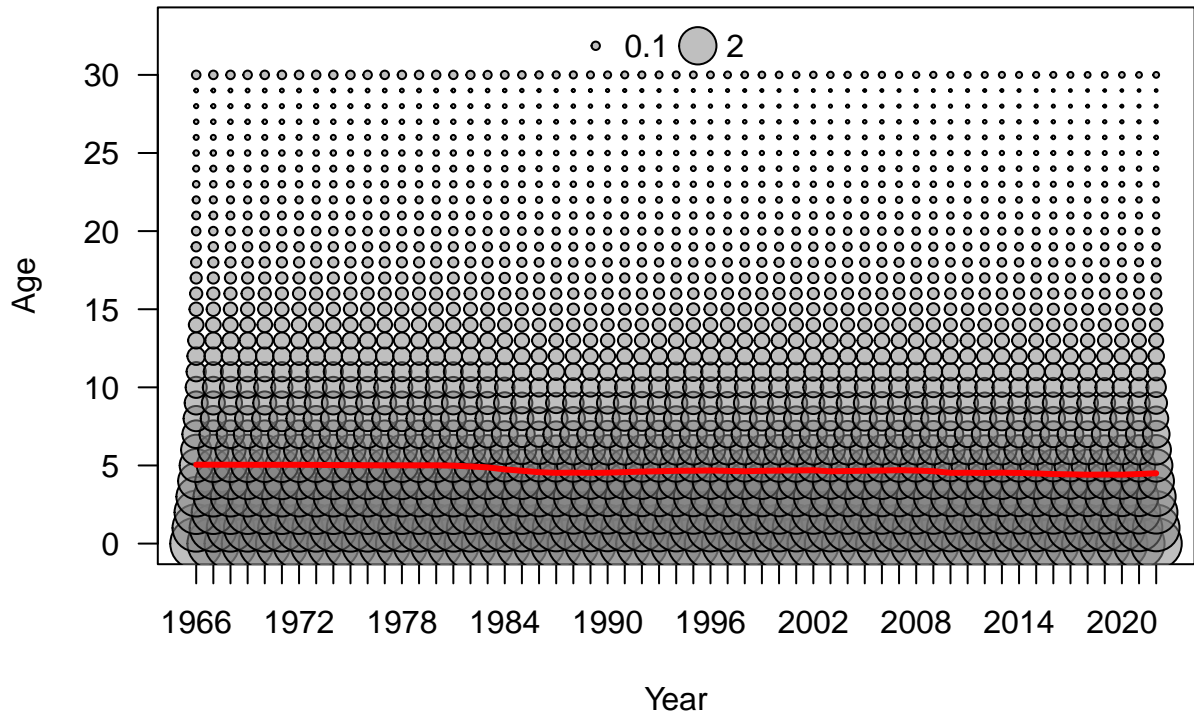


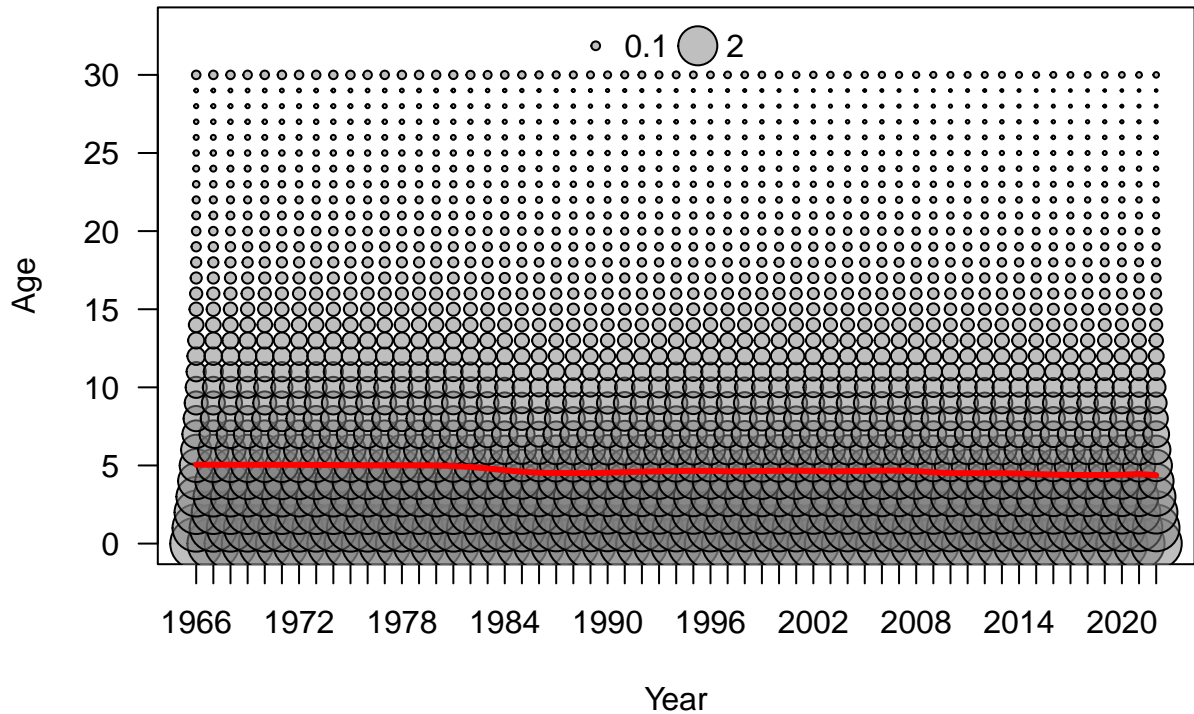


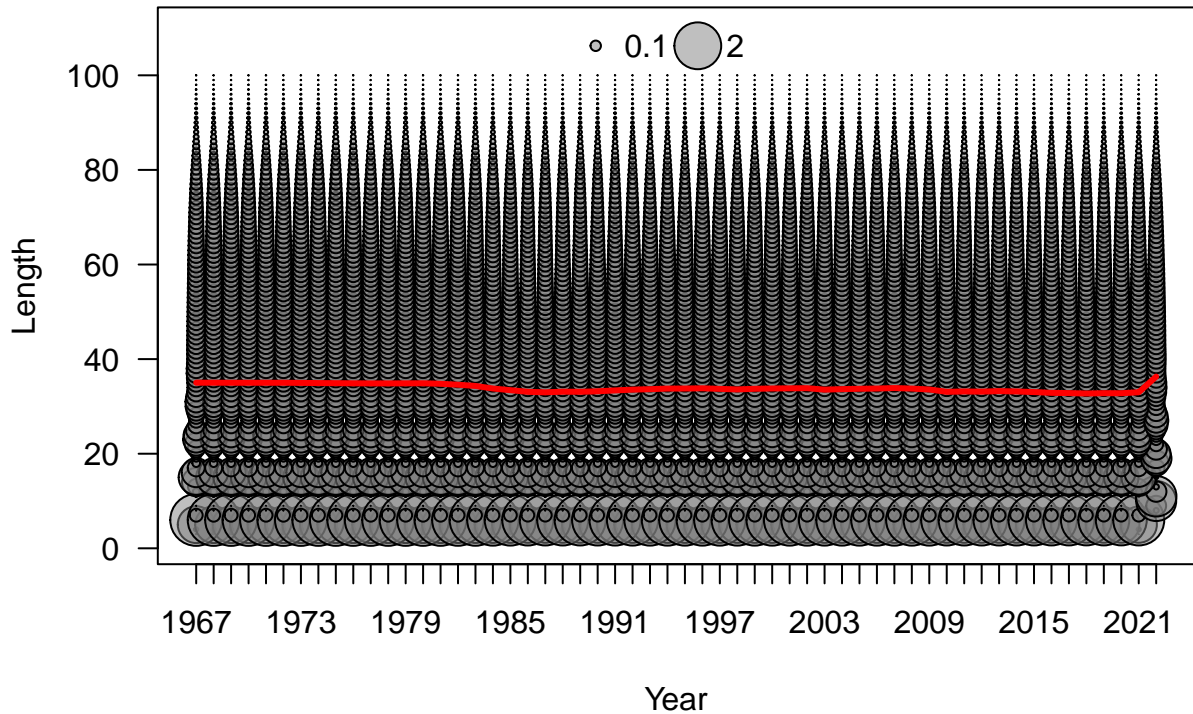




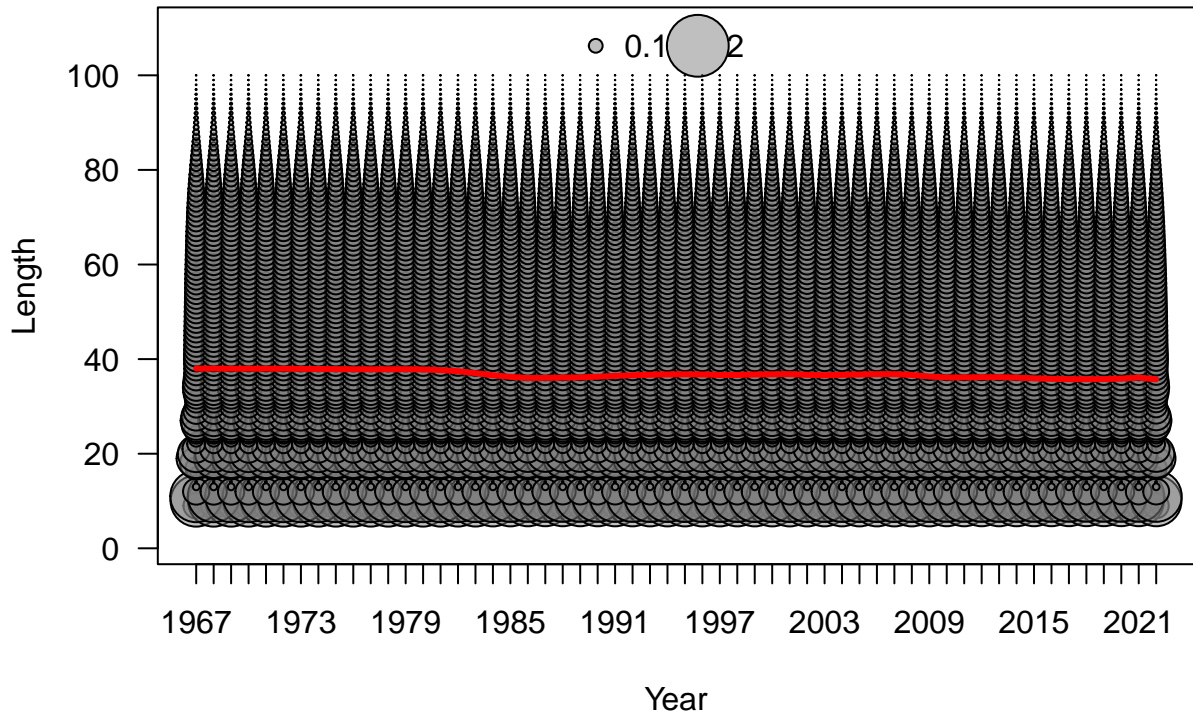


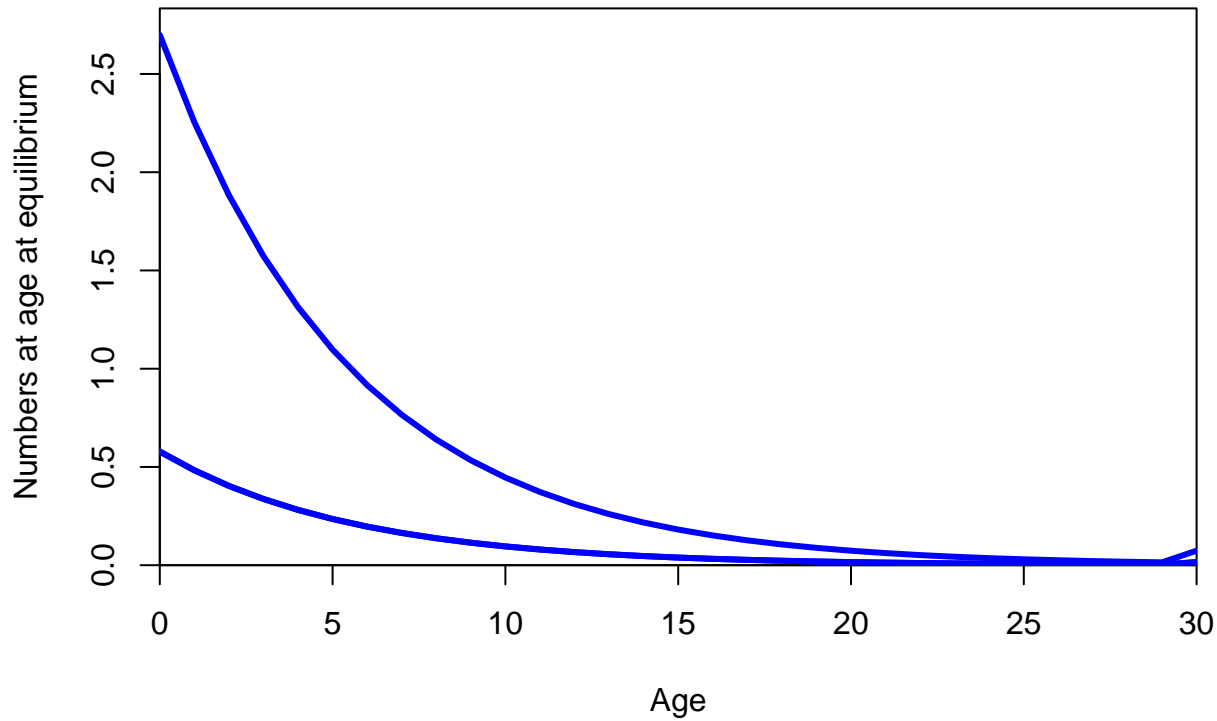






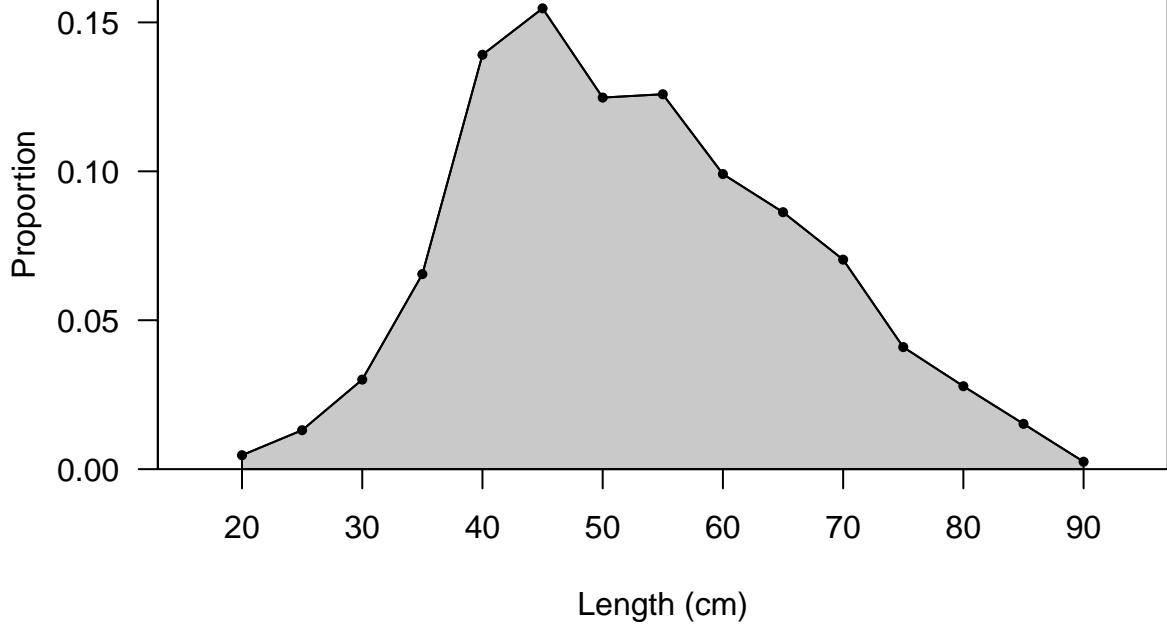






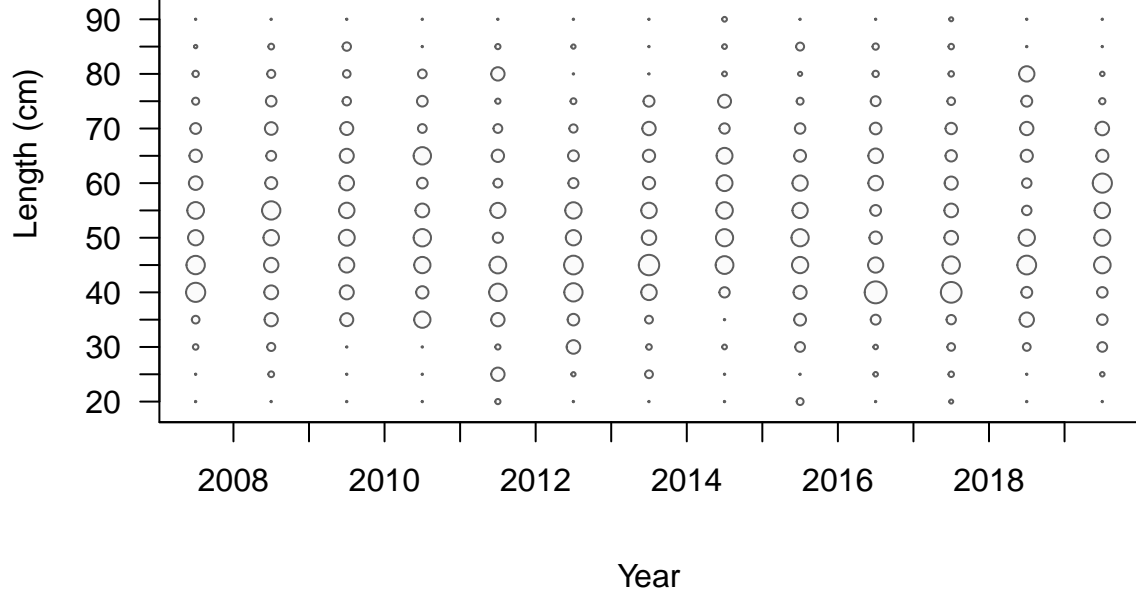
**FISHERY**

Sum of N input=1078

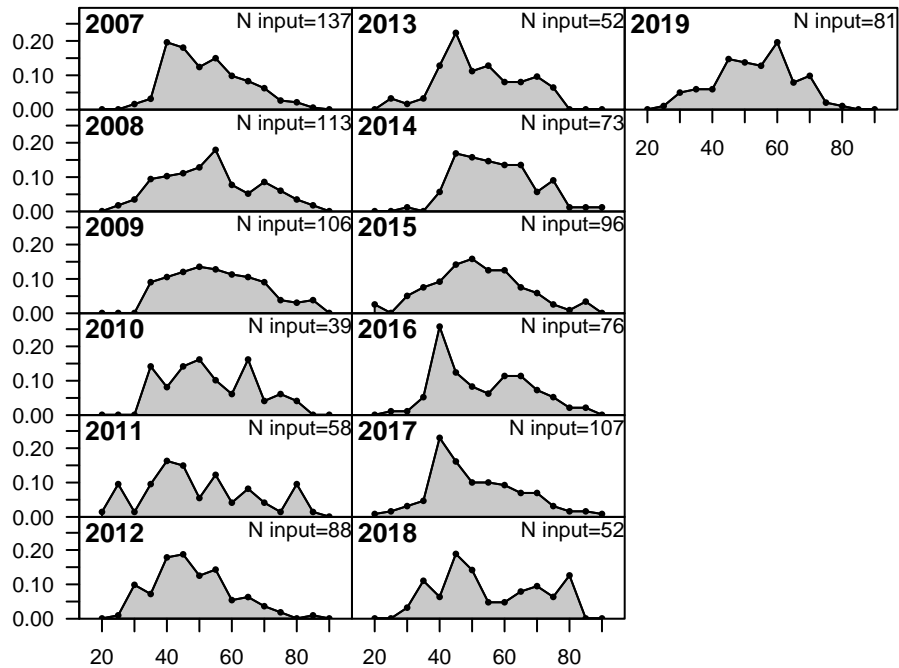


# FISHERY

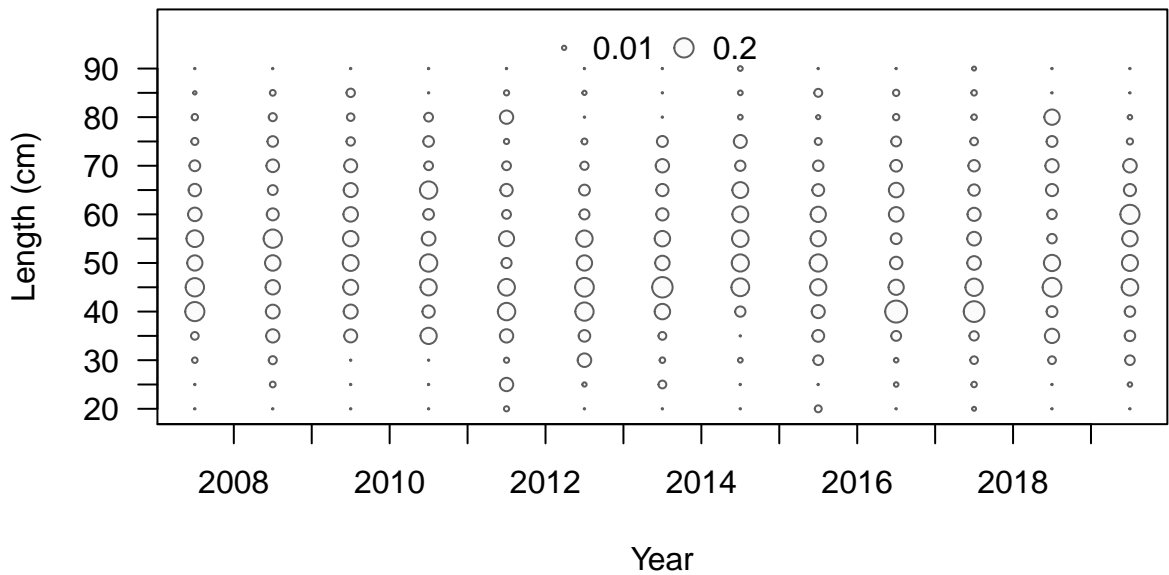
◦ 0.01 ○ 0.2



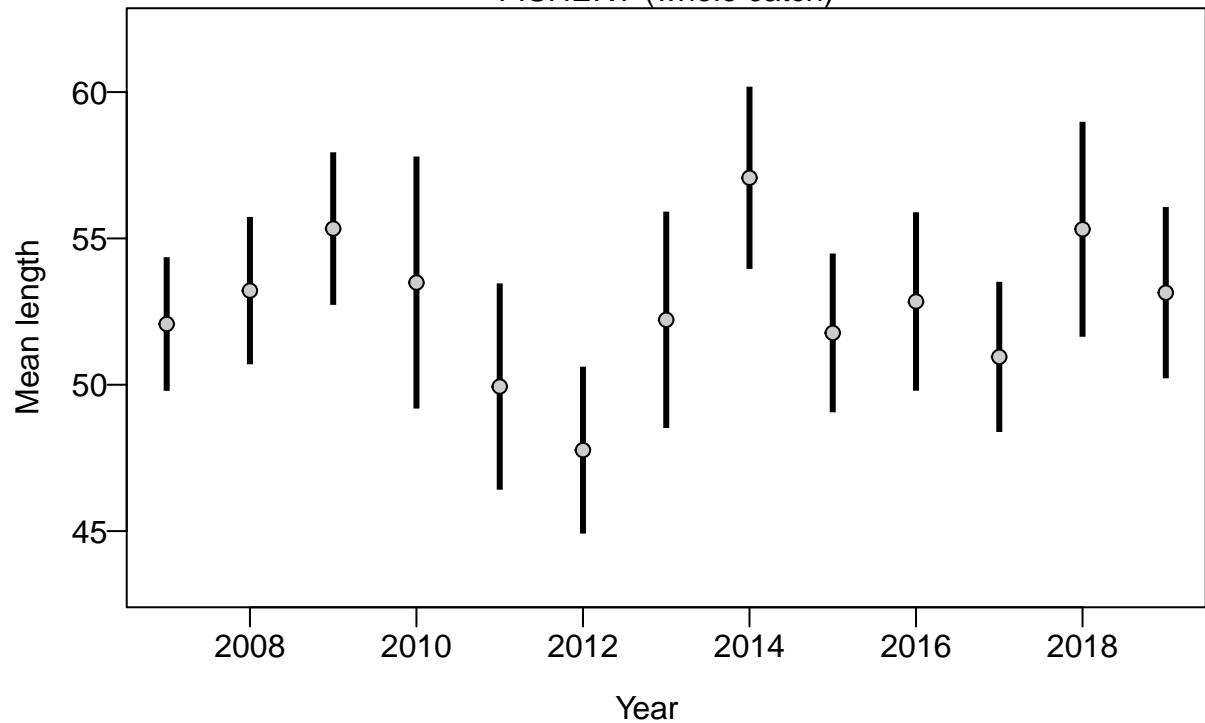
Proportion



Length (cm)

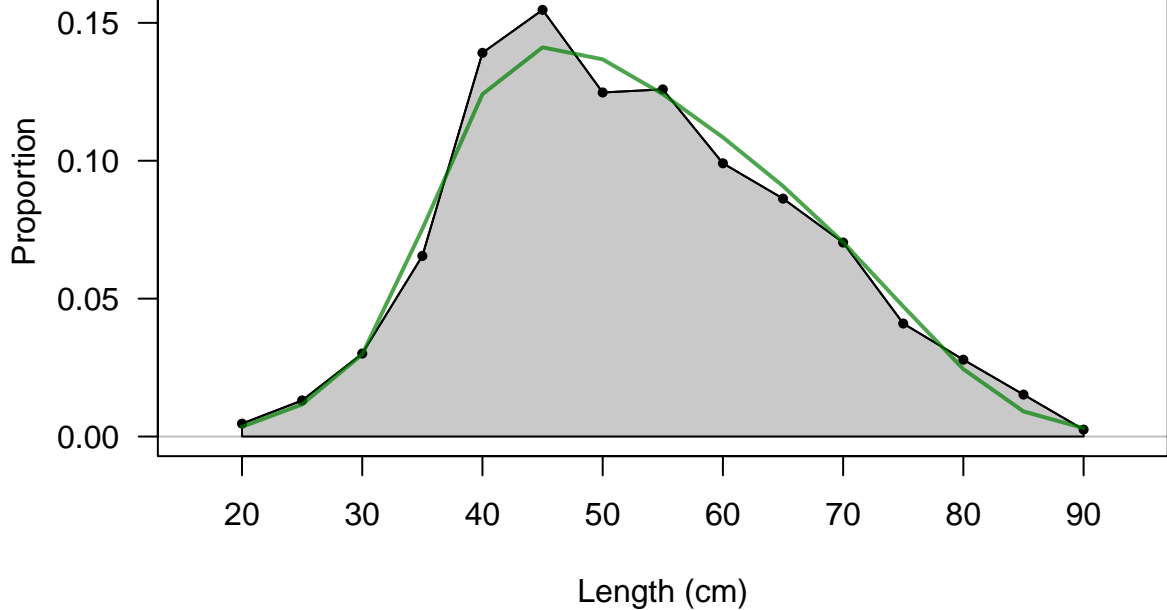


FISHERY (whole catch)

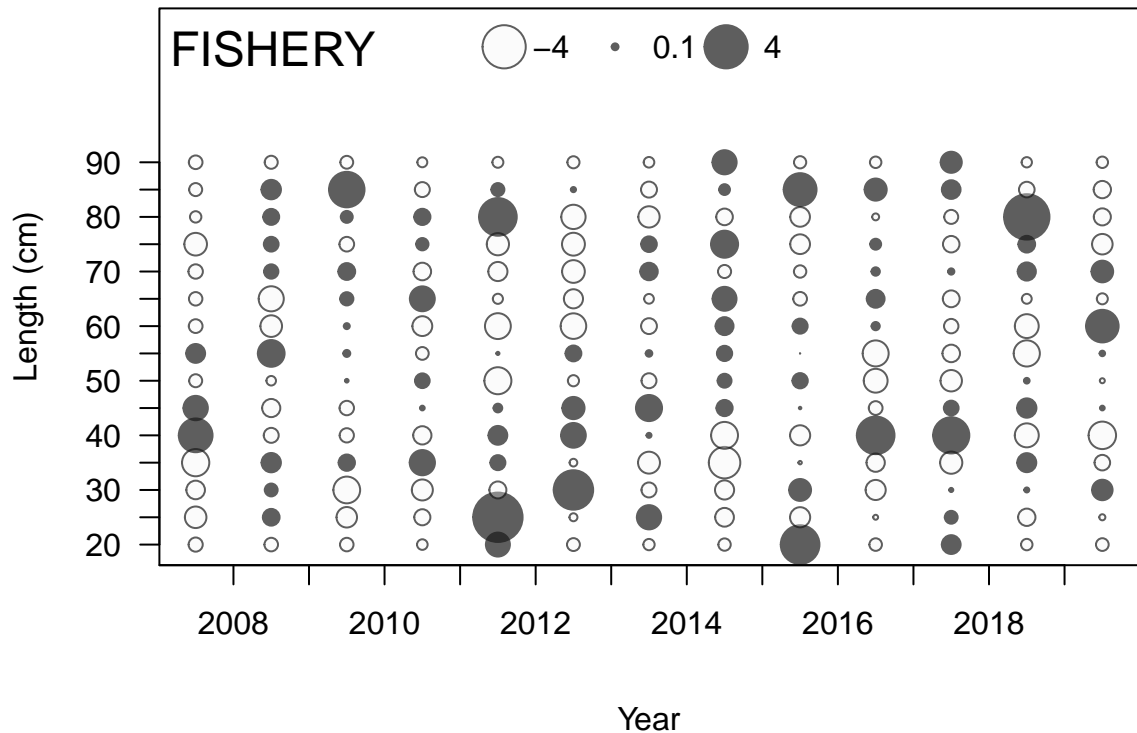


# FISHERY

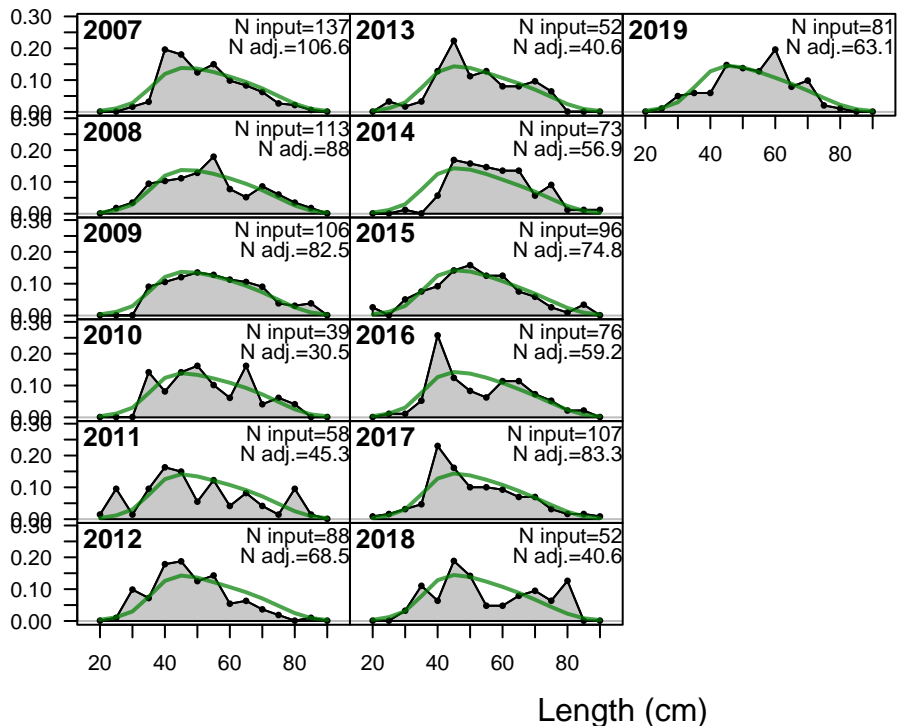
Sum of N input=1078  
Sum of N adj.=839.8

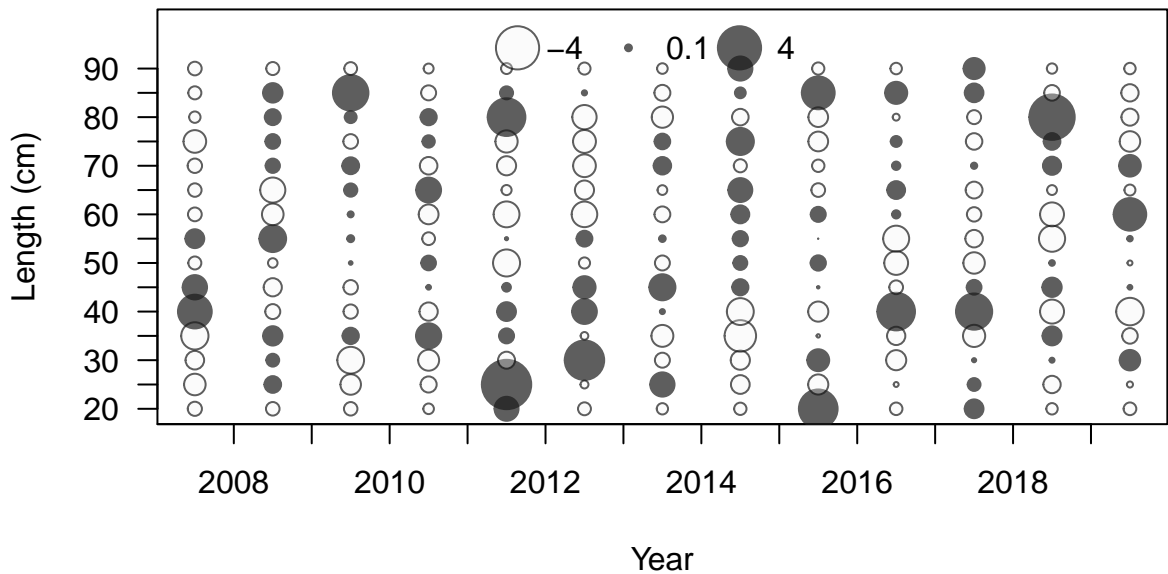




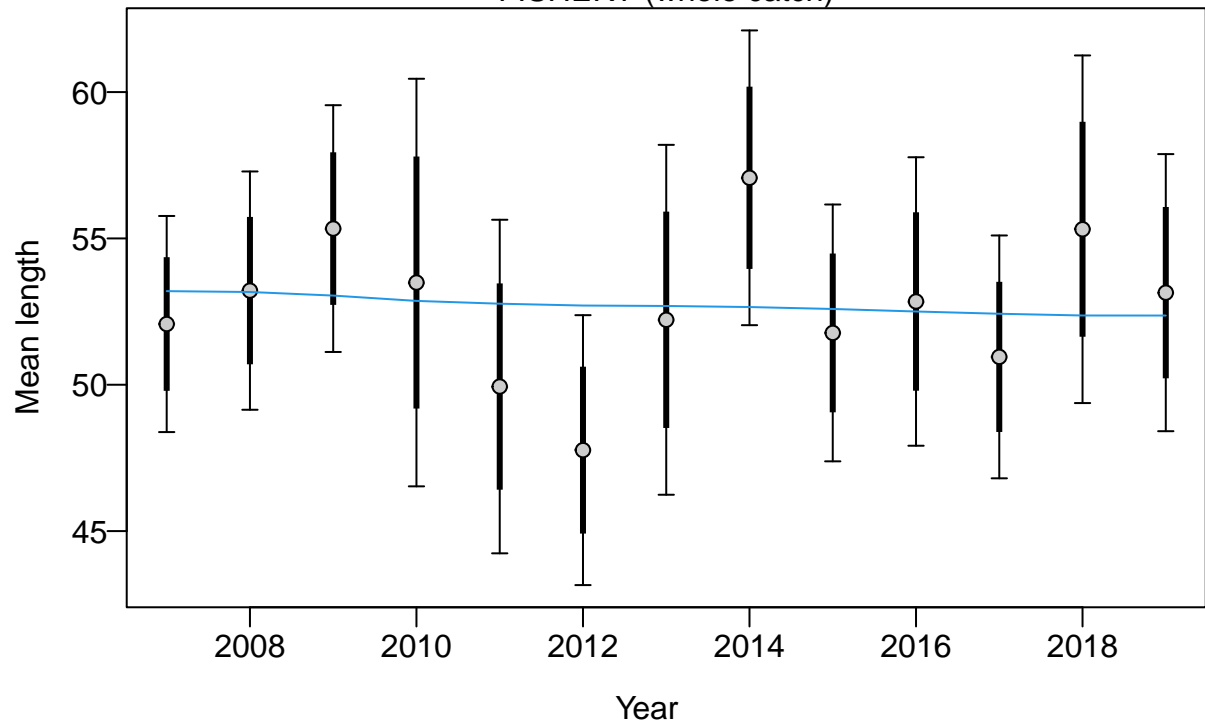


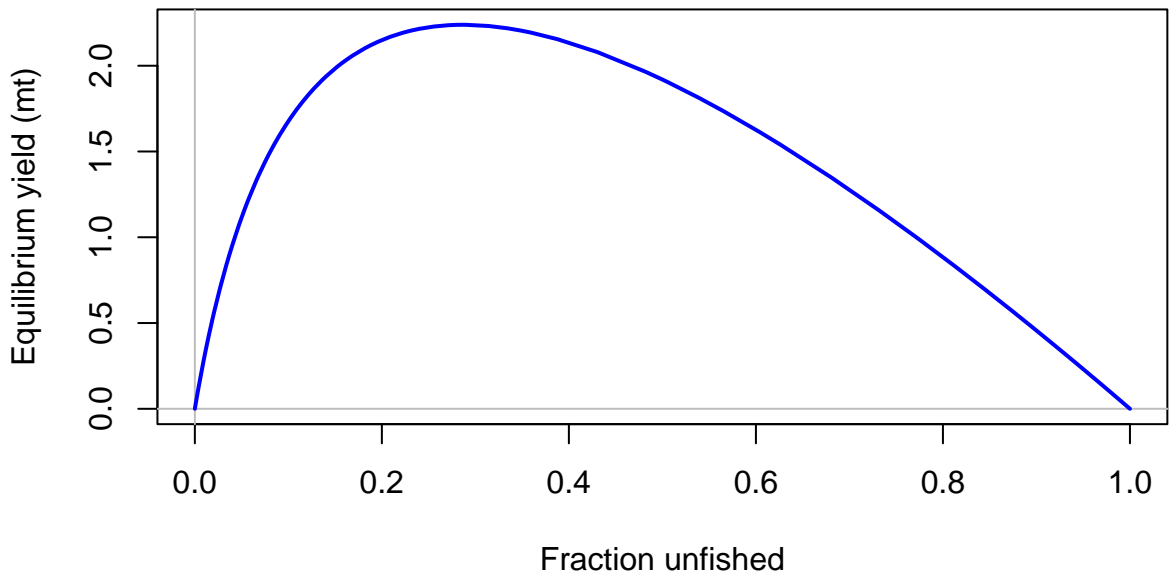
Proportion

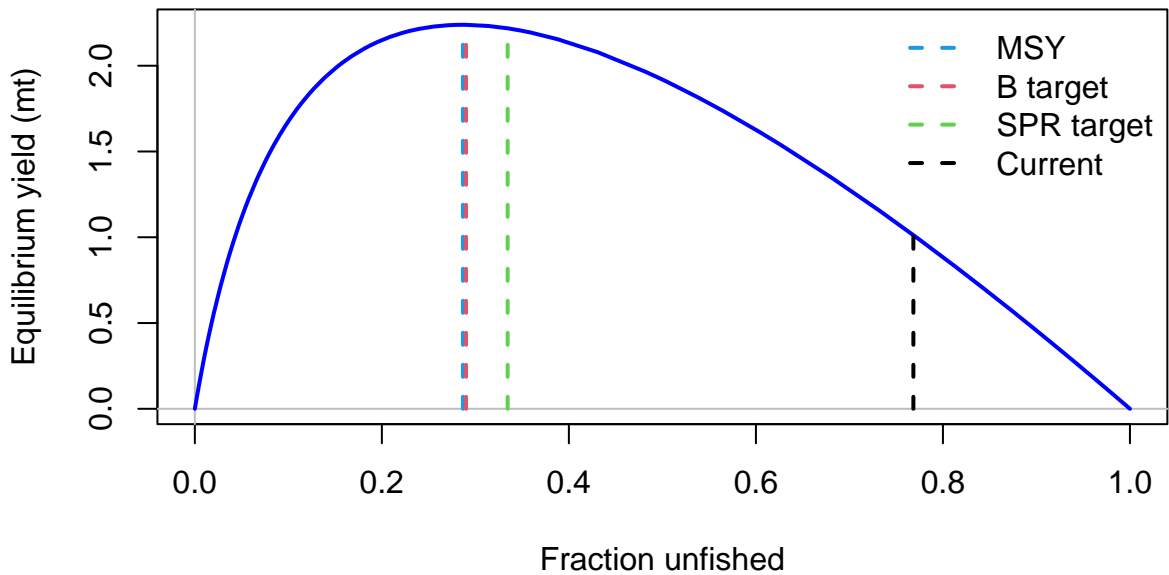


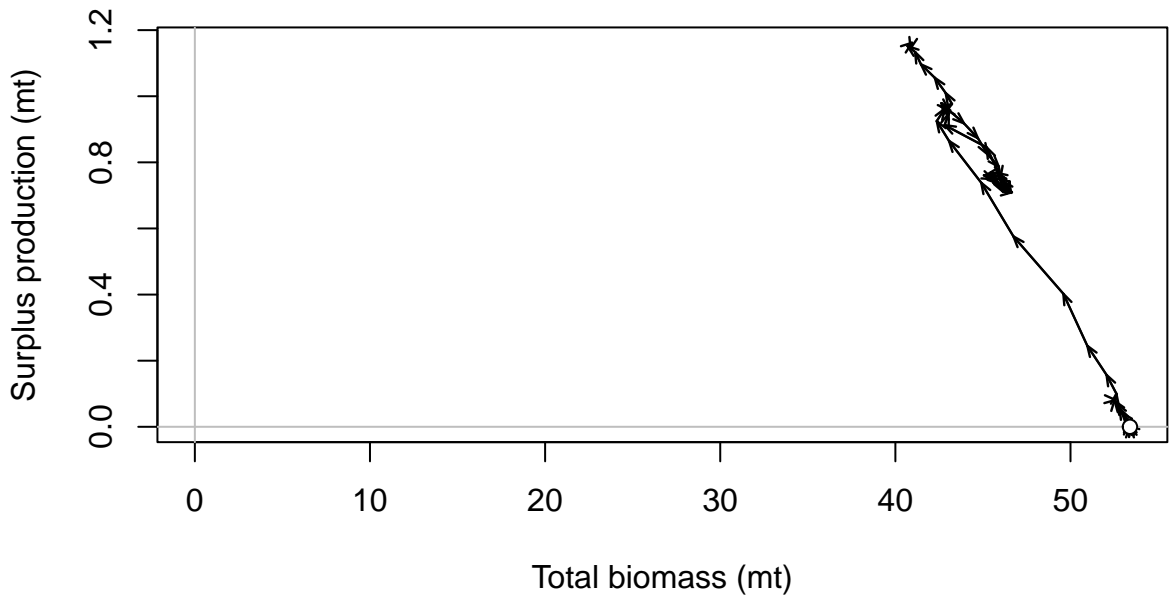


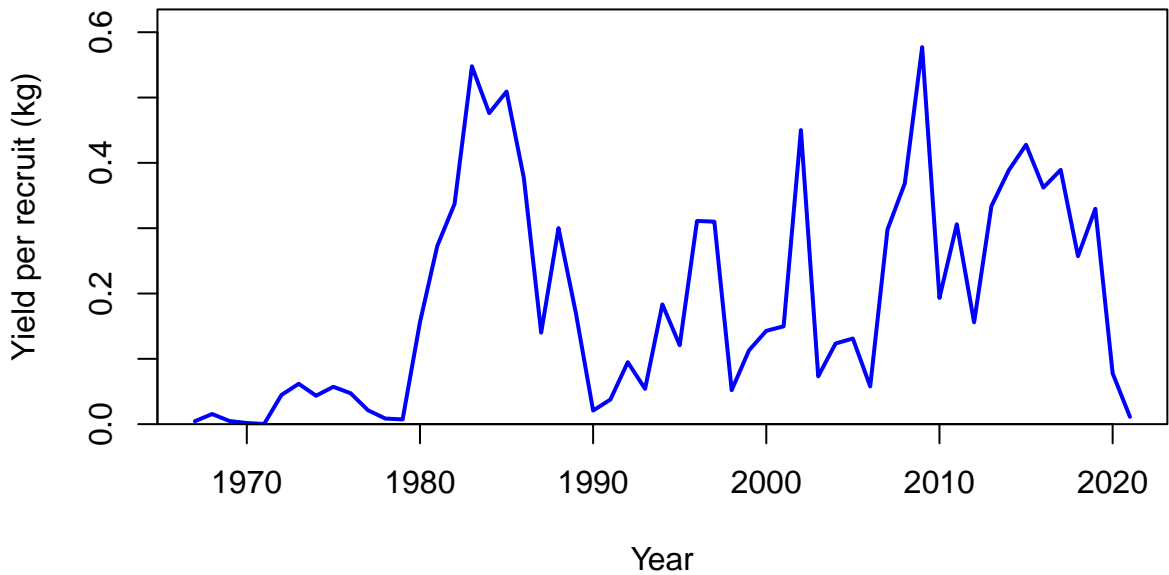
FISHERY (whole catch)



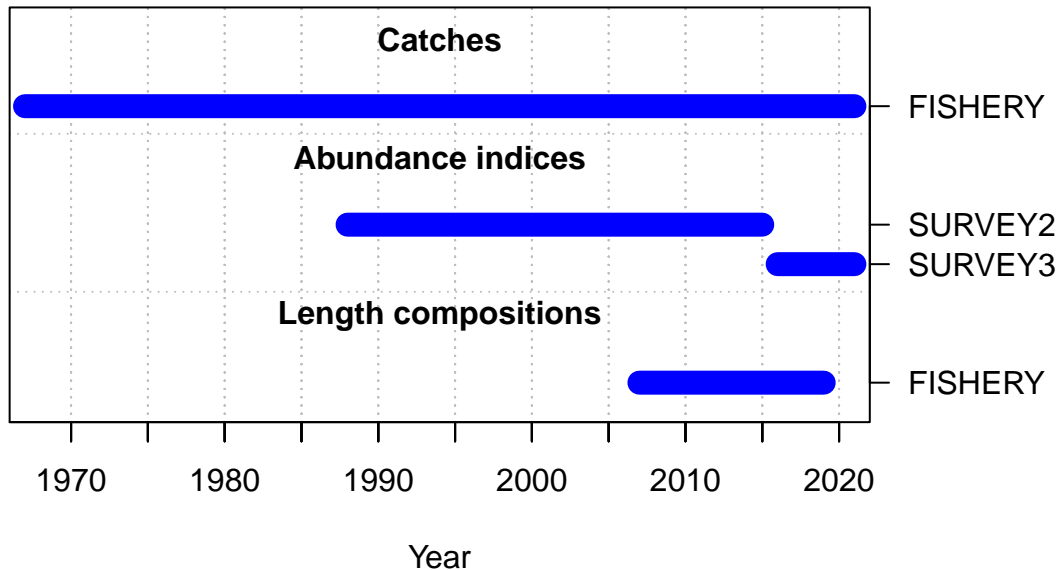


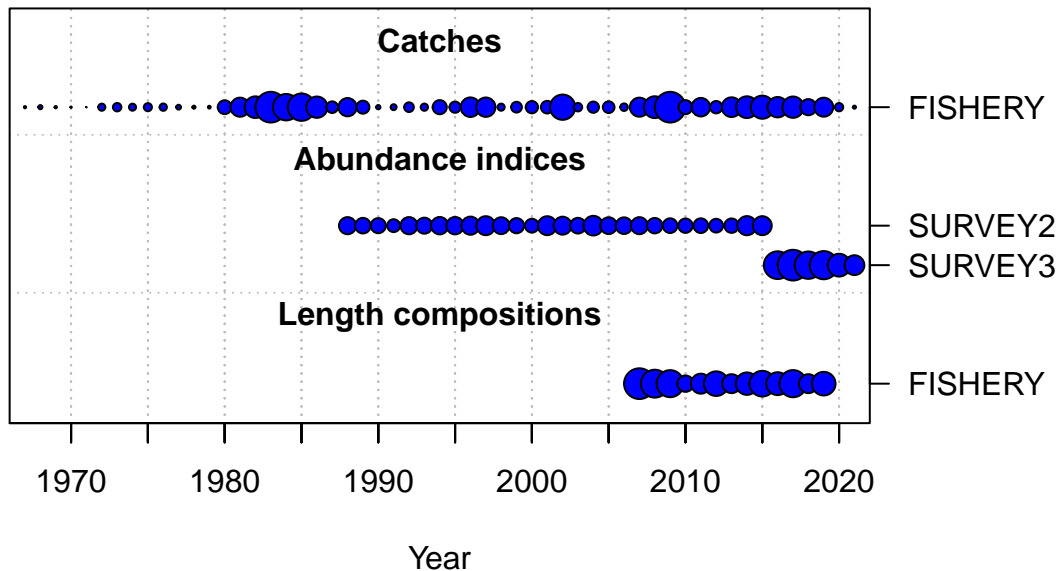








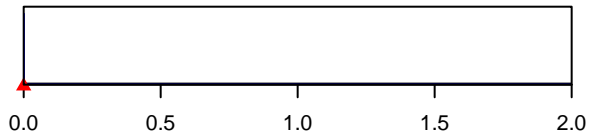




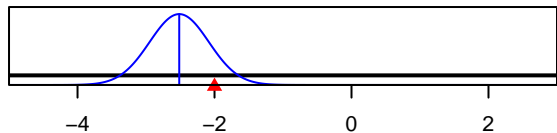
SR\_LN(R0)



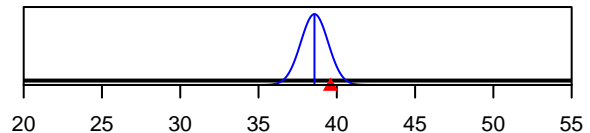
Q\_extraSD\_SURVEY3(3)



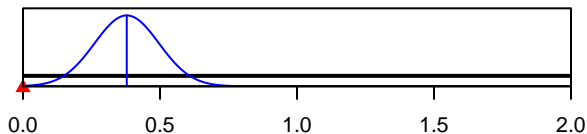
LnQ\_base\_SURVEY2(2)



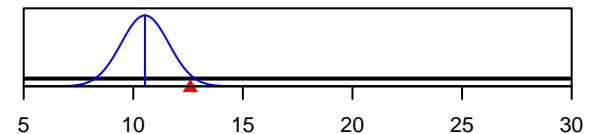
Size\_inflection\_FISHERY(1)



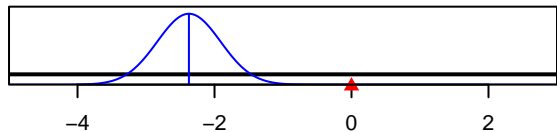
Q\_extraSD\_SURVEY2(2)



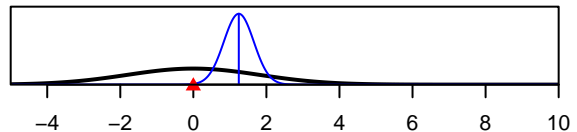
Size\_95%width\_FISHERY(1)



LnQ\_base\_SURVEY3(3)



ln(DM\_theta)\_1



Parameter value