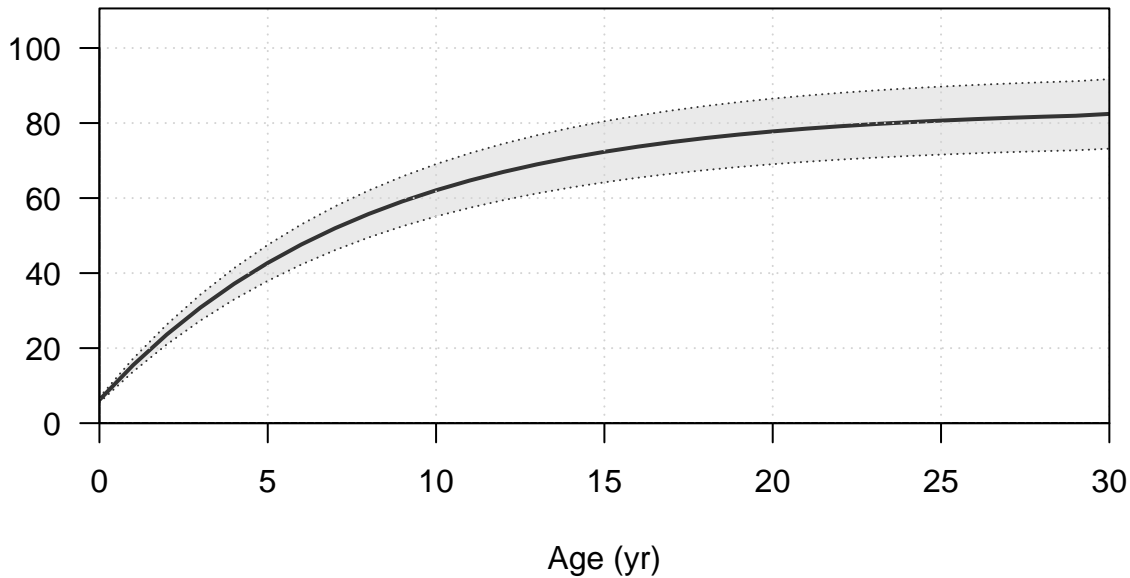


Plots created using the 'r4ss' package in R  
Stock Synthesis version: 3.30.19.0  
StartTime: Thu Aug 25 08:14:48 2022  
Data\_File: data.ss  
Control\_File: control.ss

Length (cm, beginning of the year)

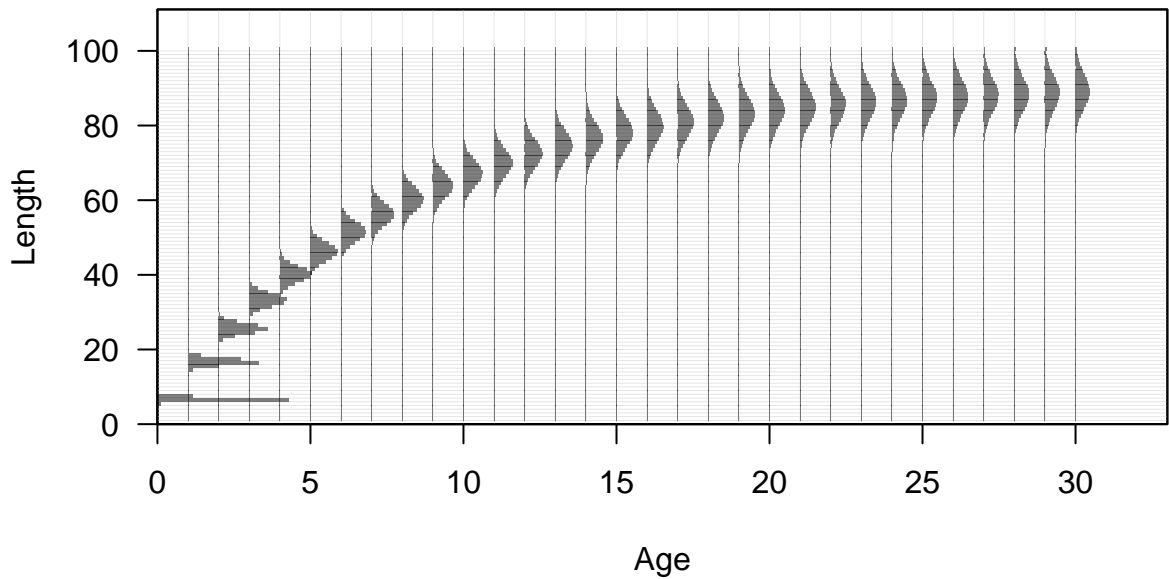


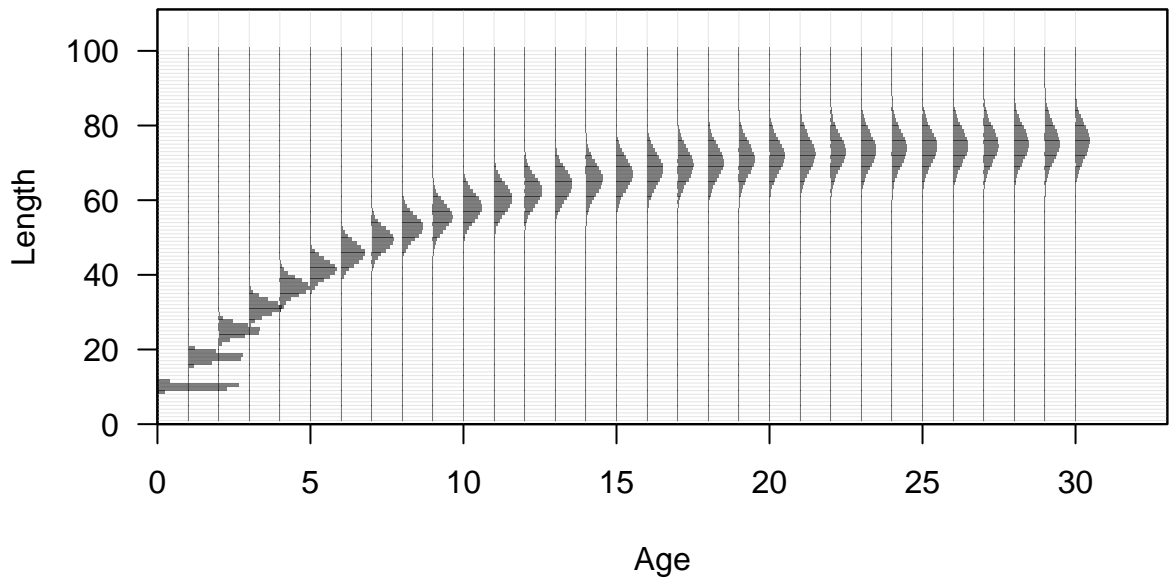






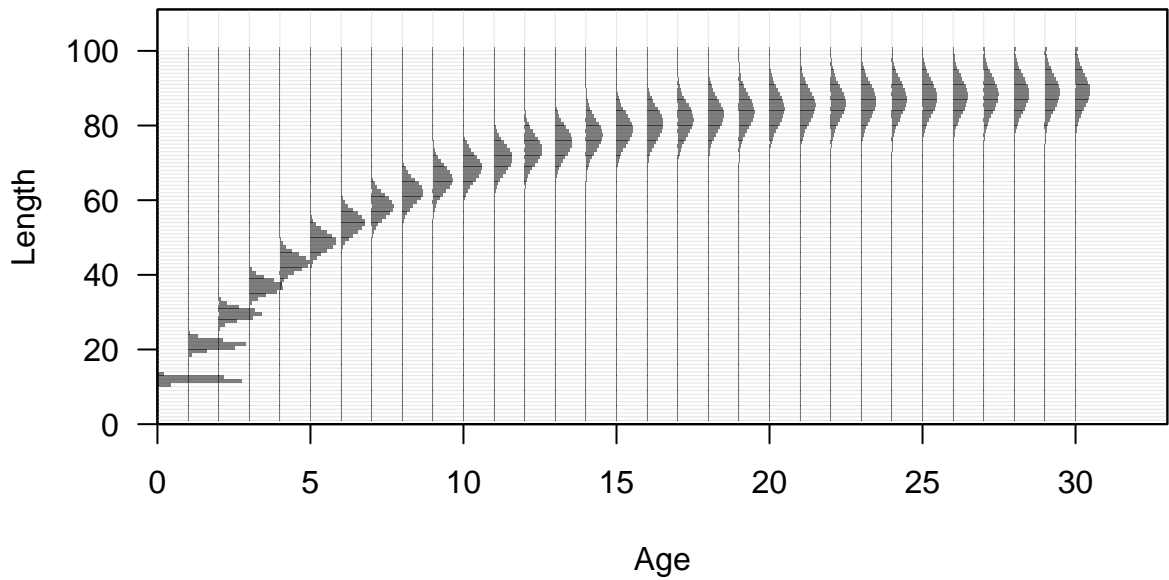


















Fecundity



Fecundity

20

15

10

5

0

0

20

40

60

80

100

Female length (cm)



Spawning output

20  
15  
10  
5  
0

0

20

40

60

80

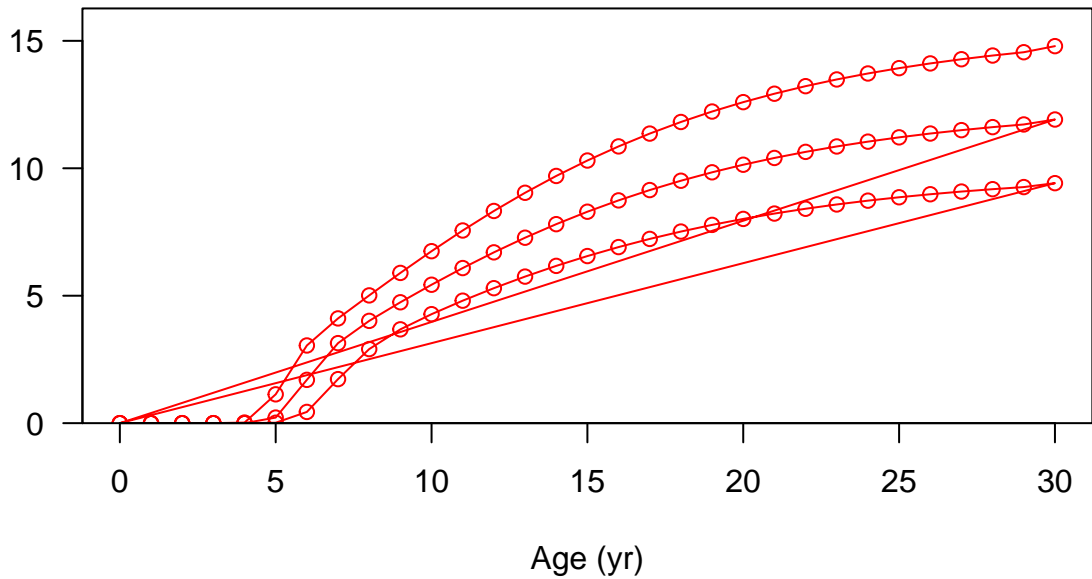
100

Length (cm)

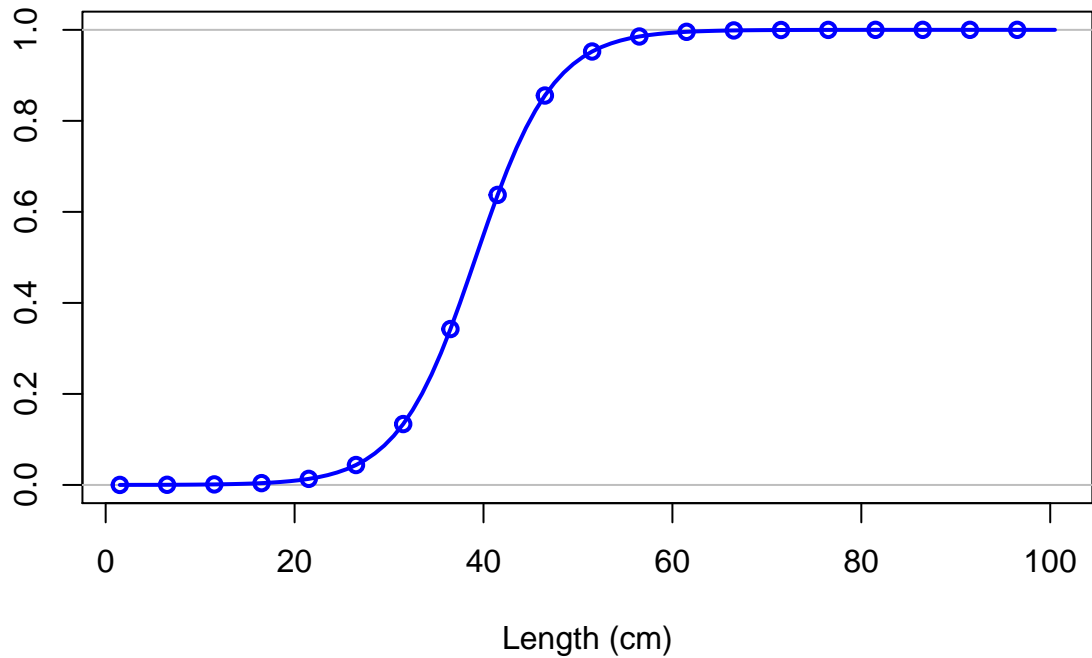




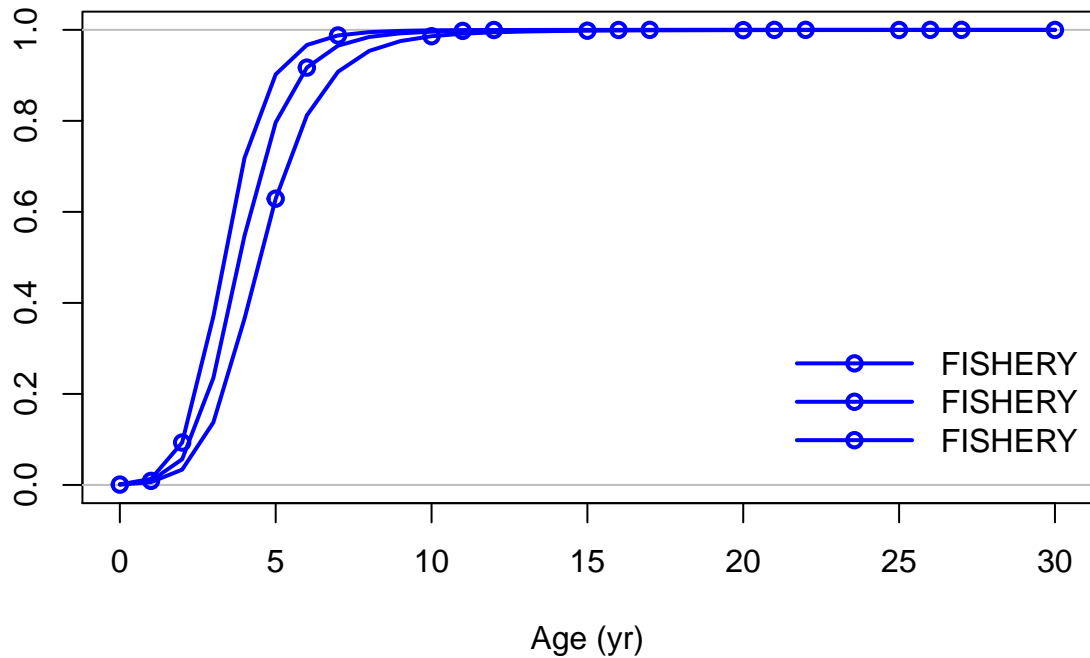
Spawning output



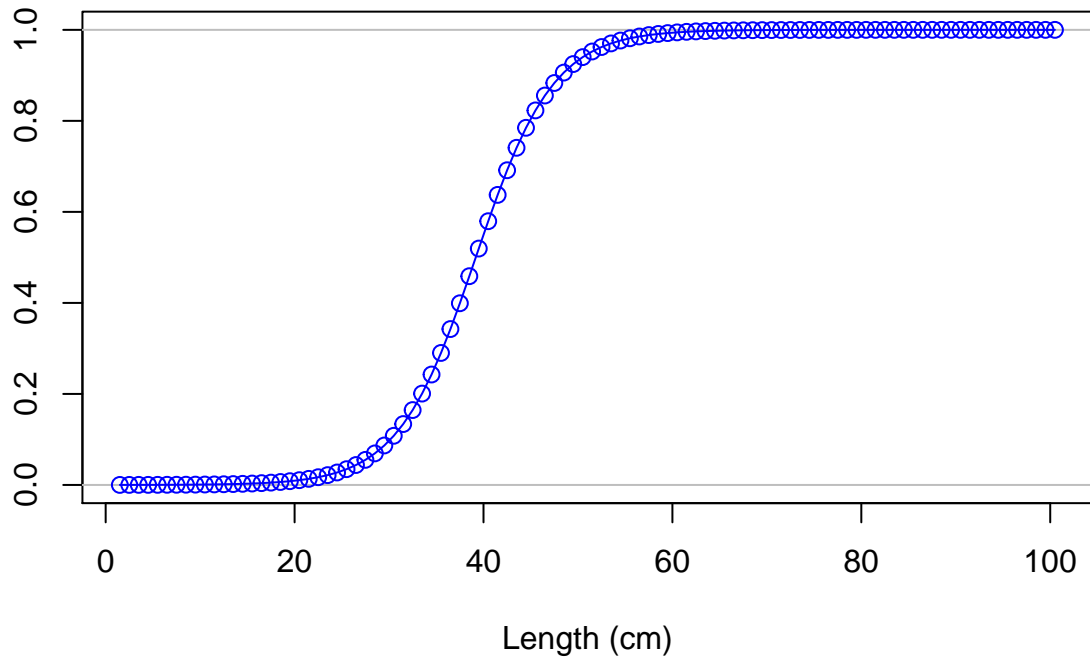
Selectivity

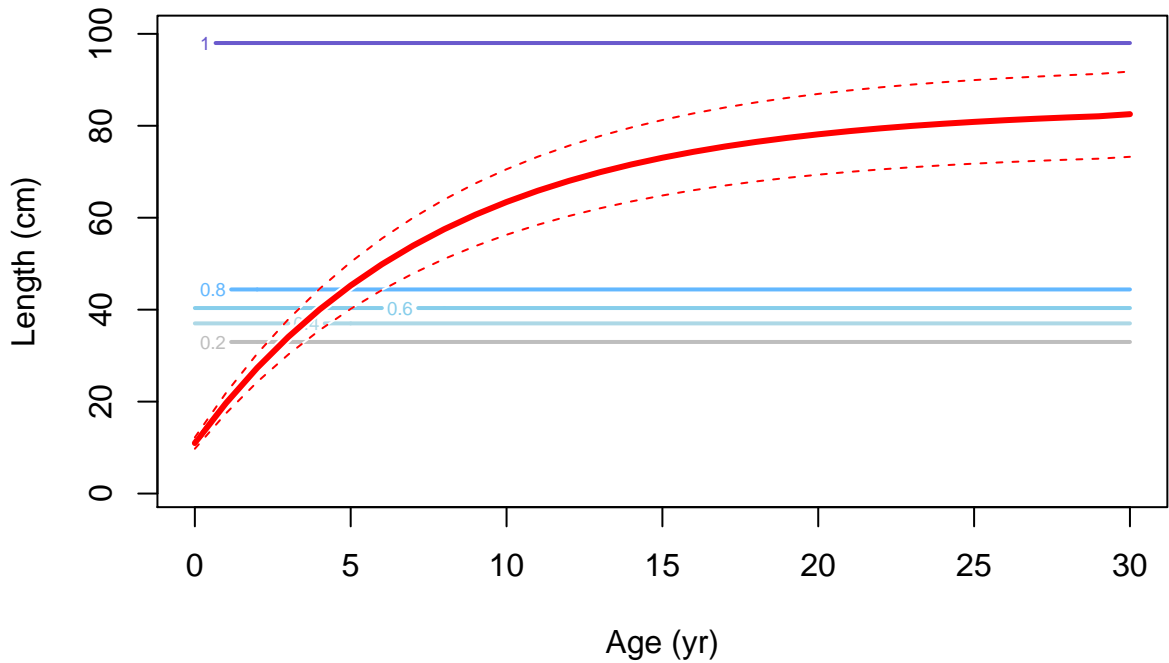


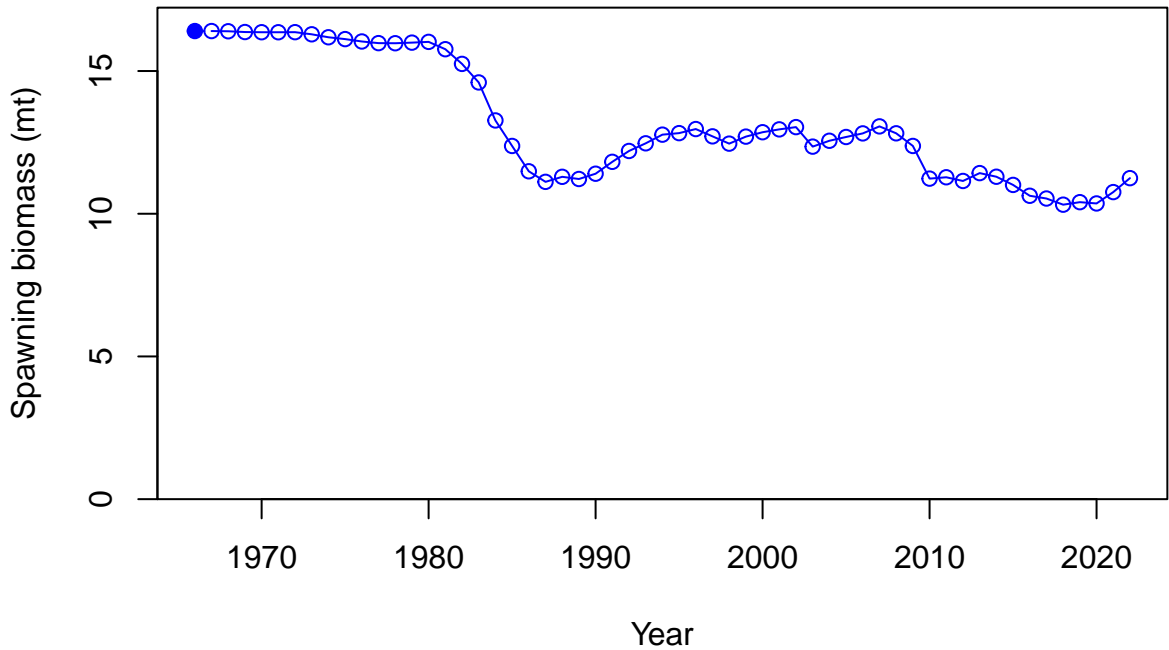
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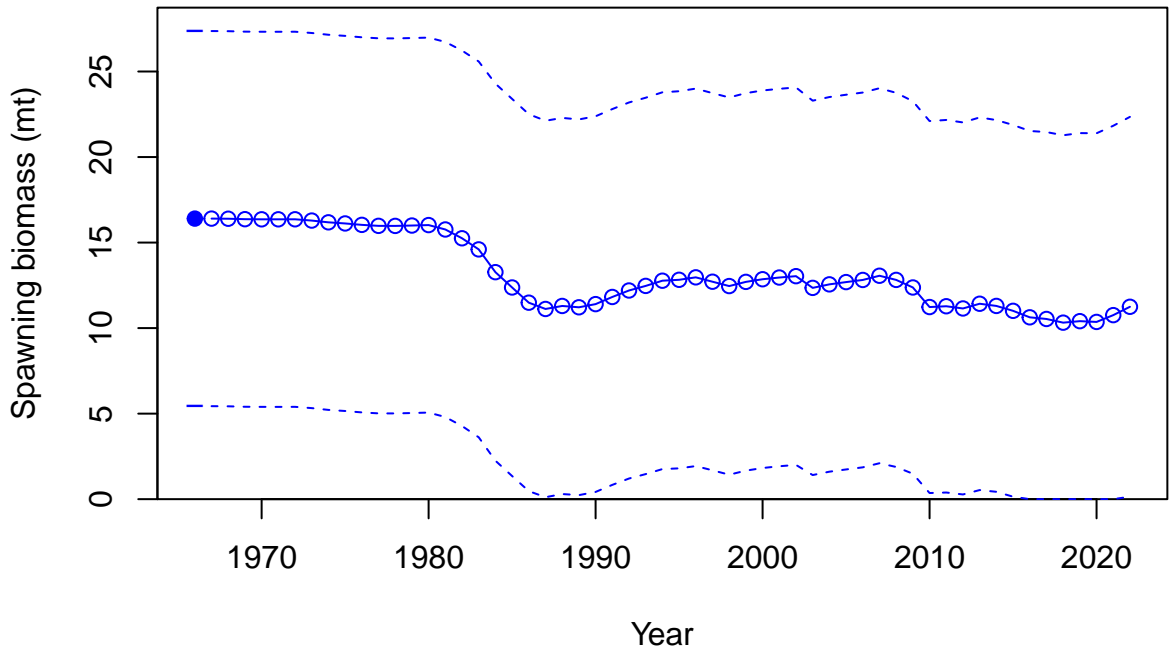


Selectivity

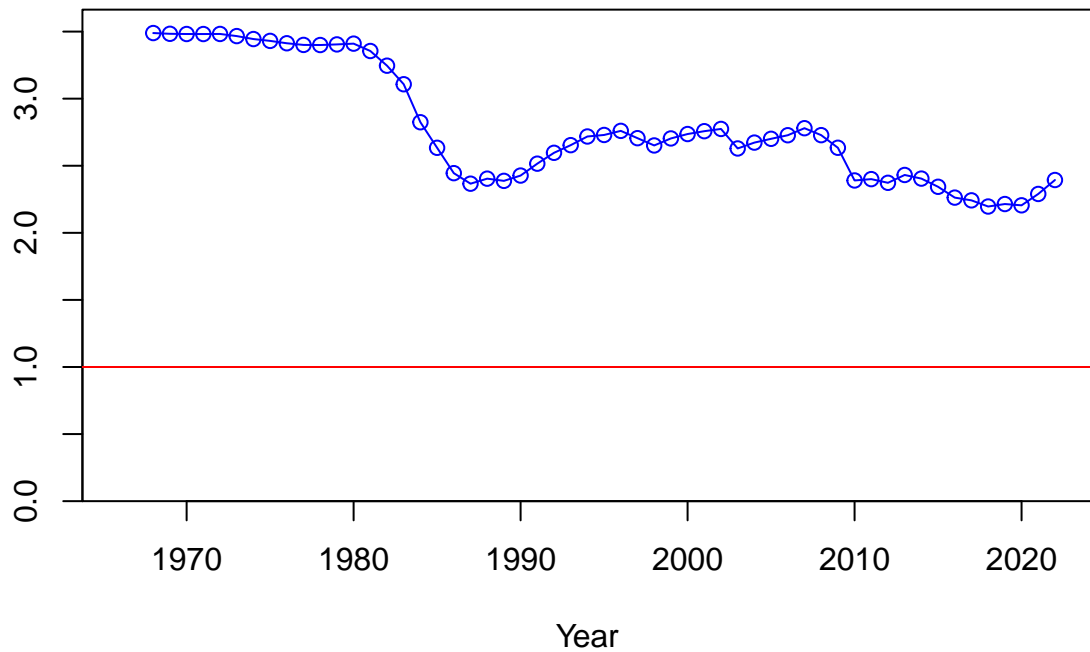






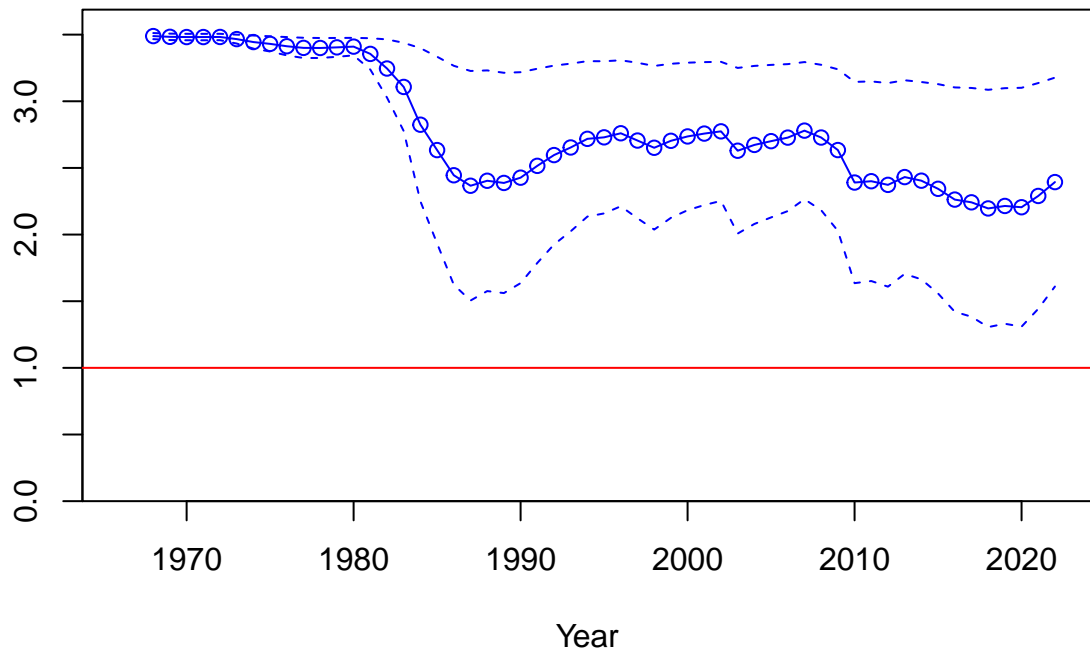


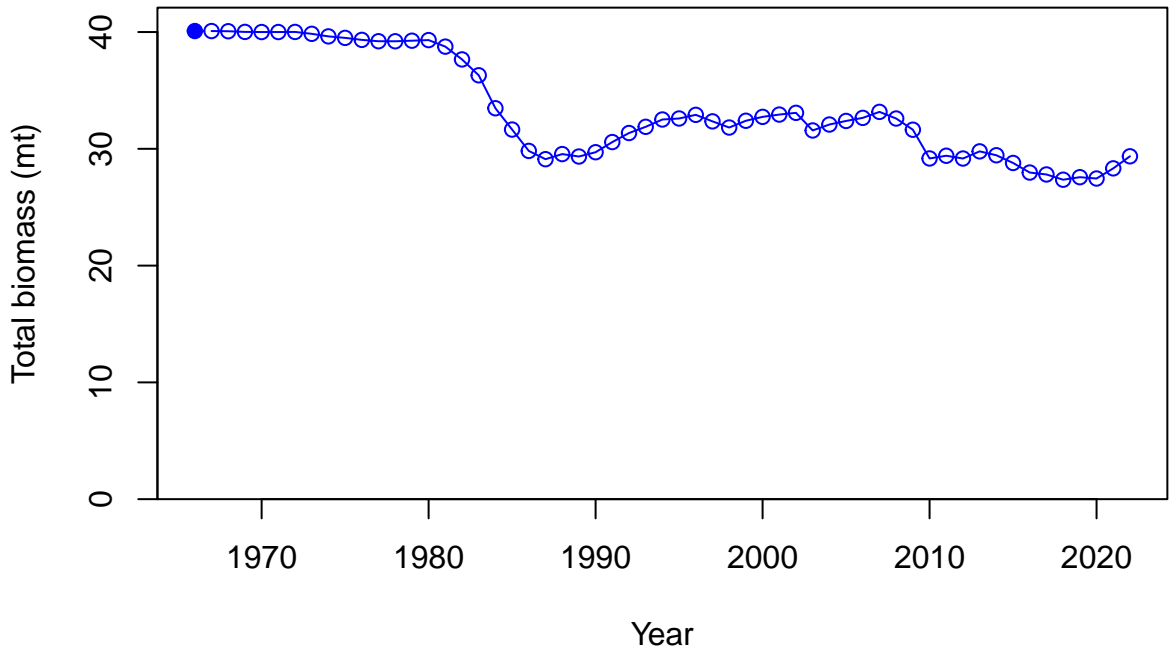
Relative spawning biomass:  $B/B_{MSY}$

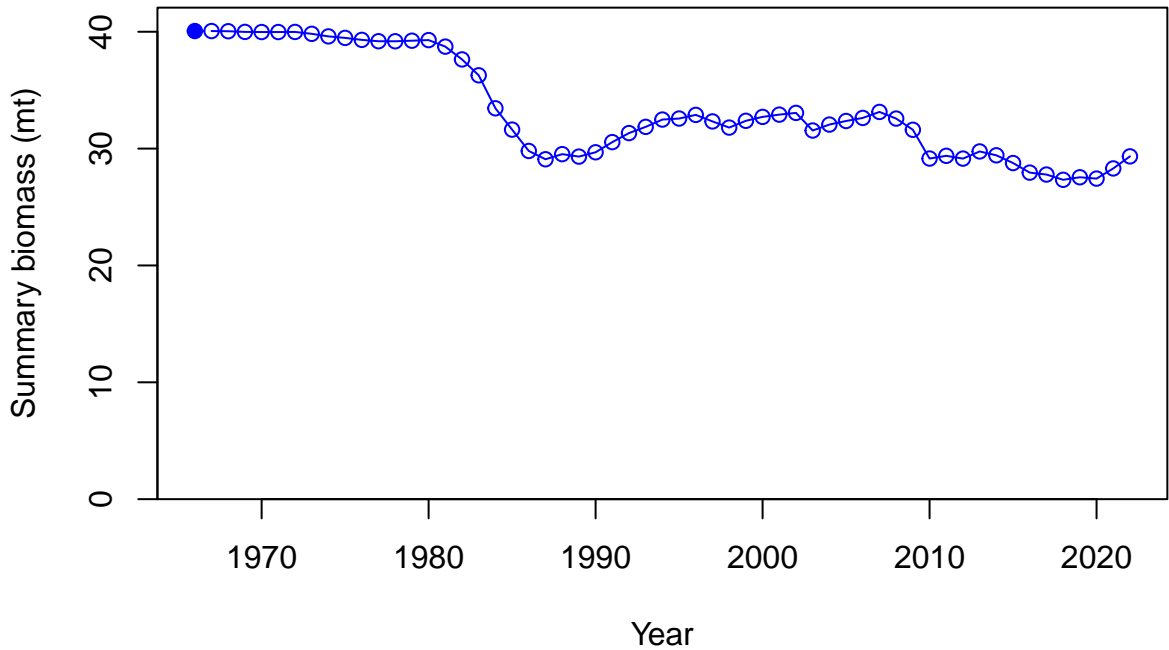


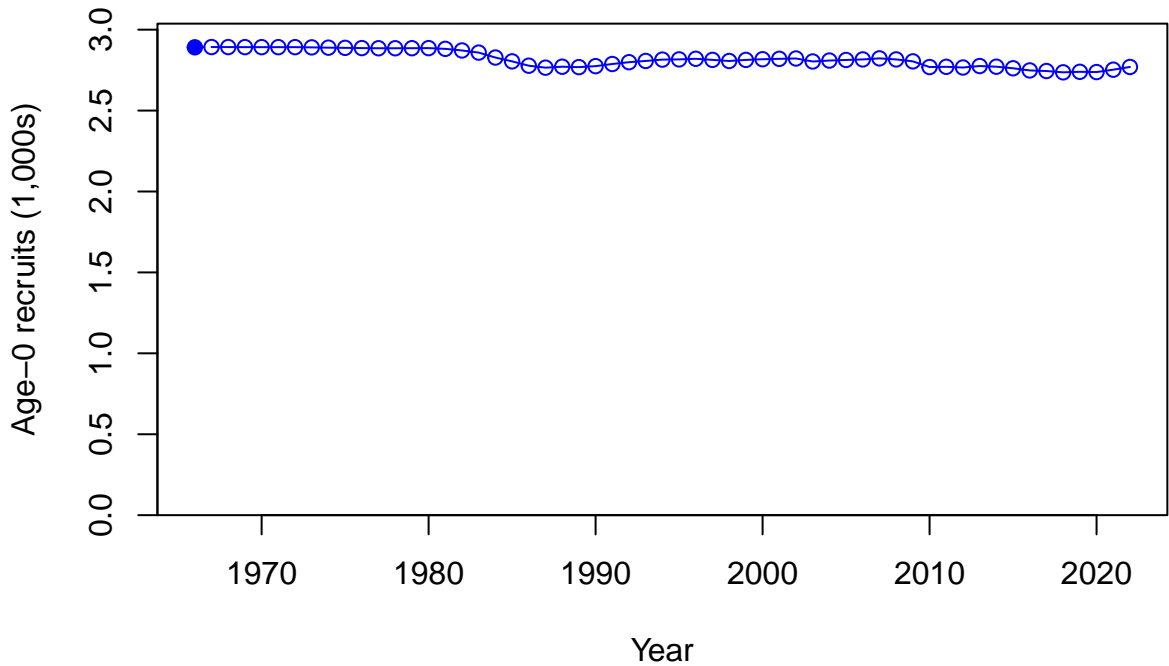


Relative spawning biomass:  $B/B_{MSY}$

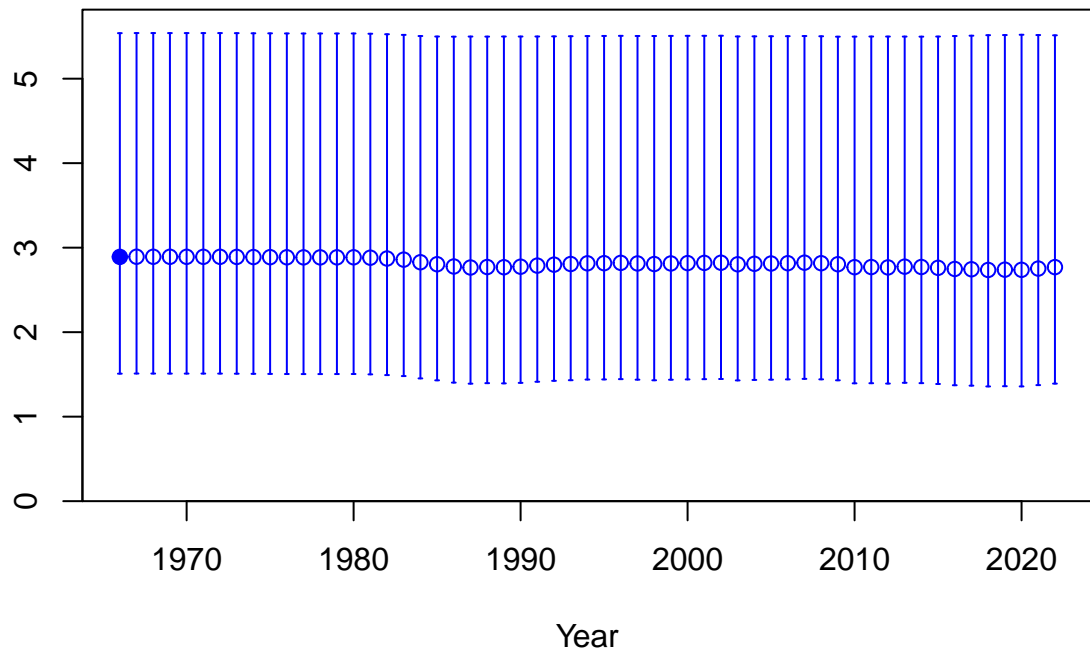




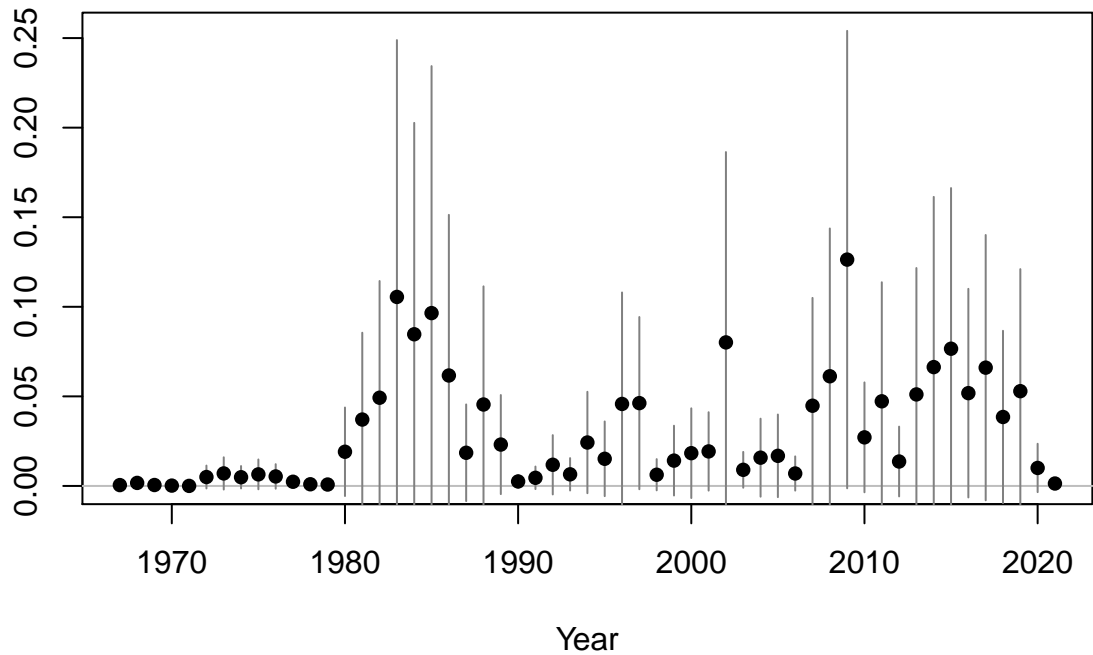


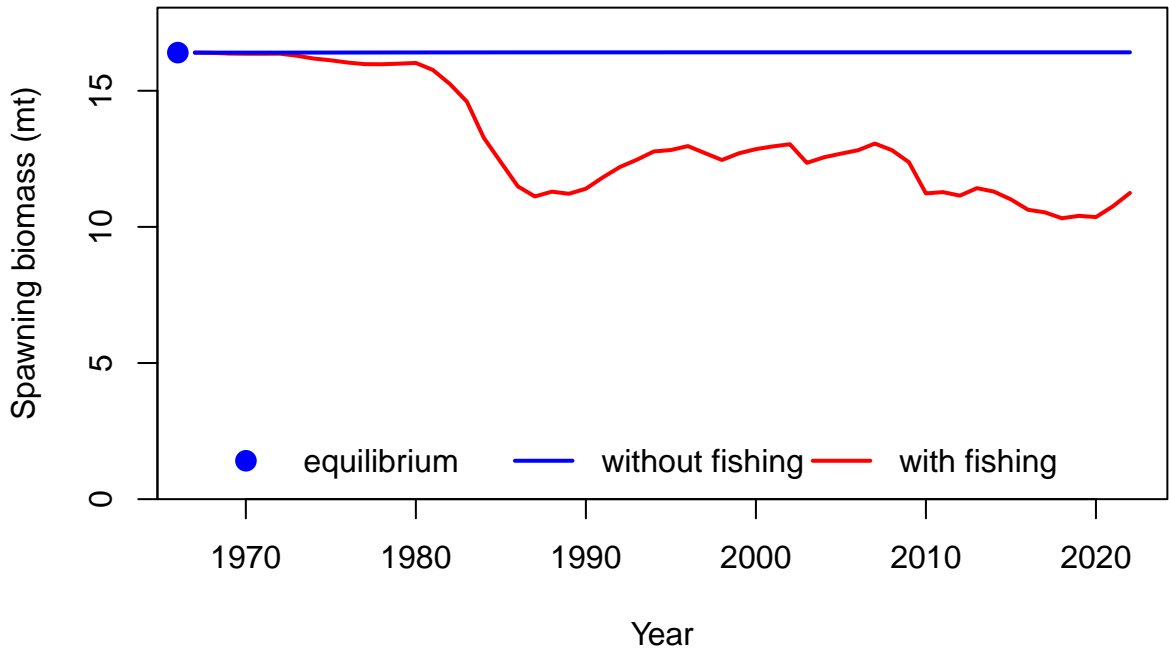


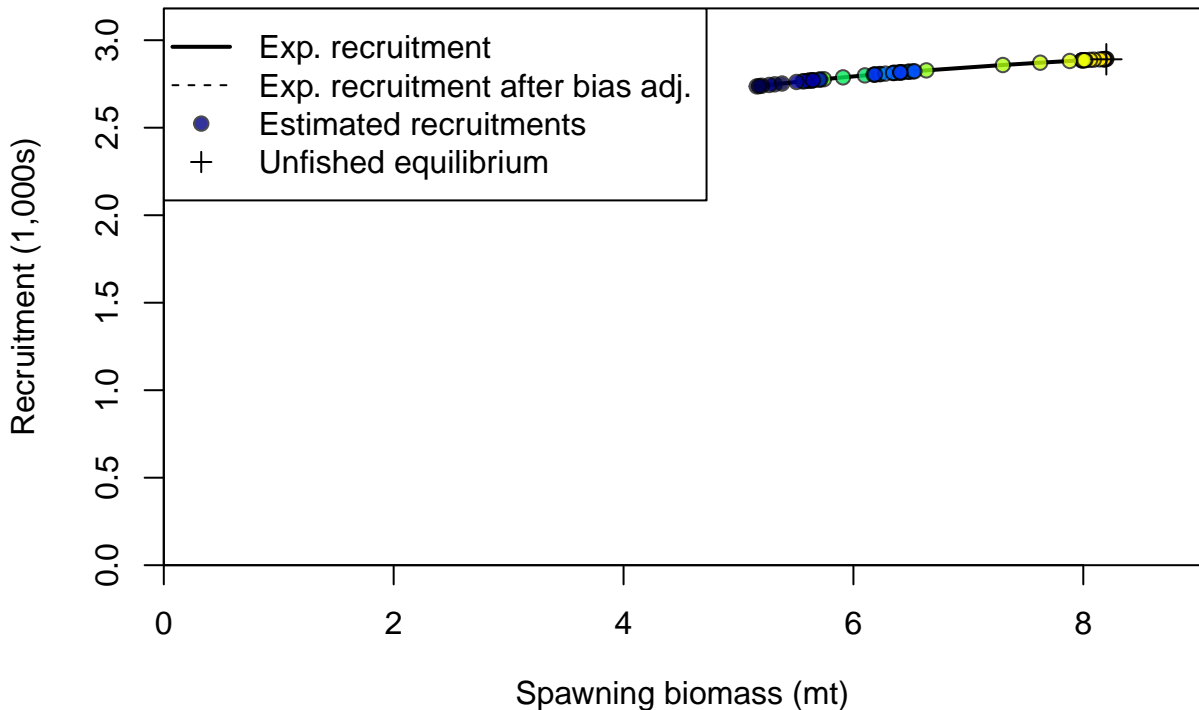
Age-0 recruits (1,000s)



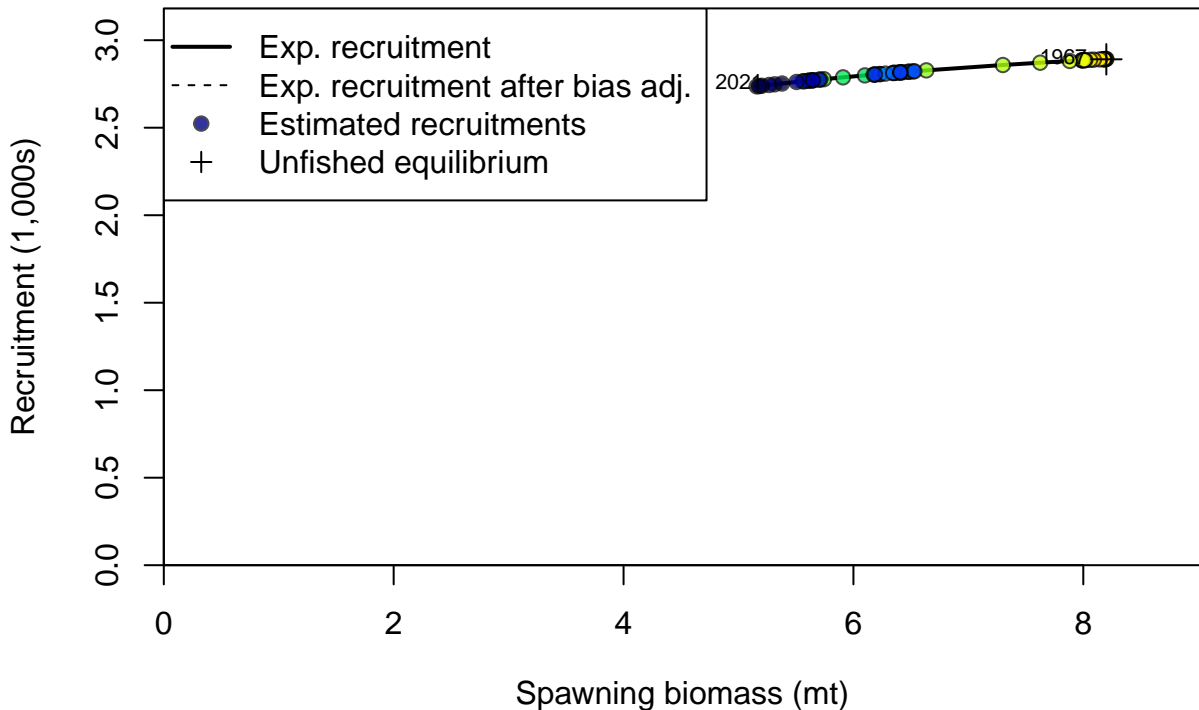
Summary Fishing Mortality

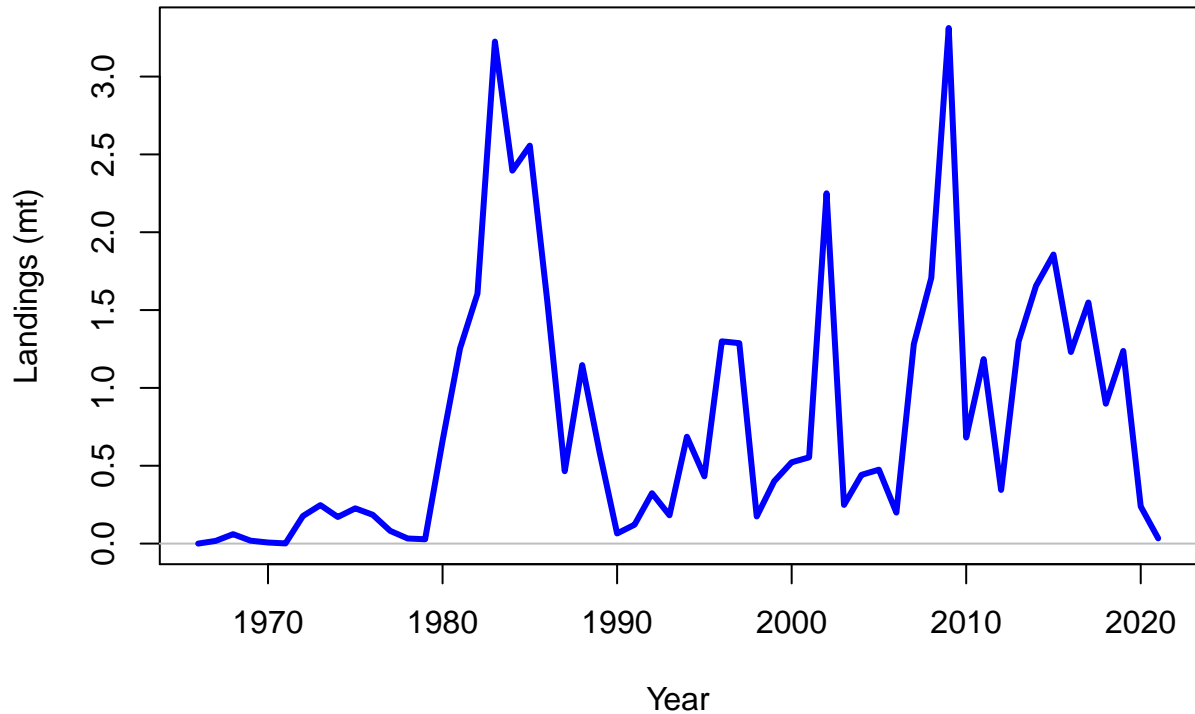


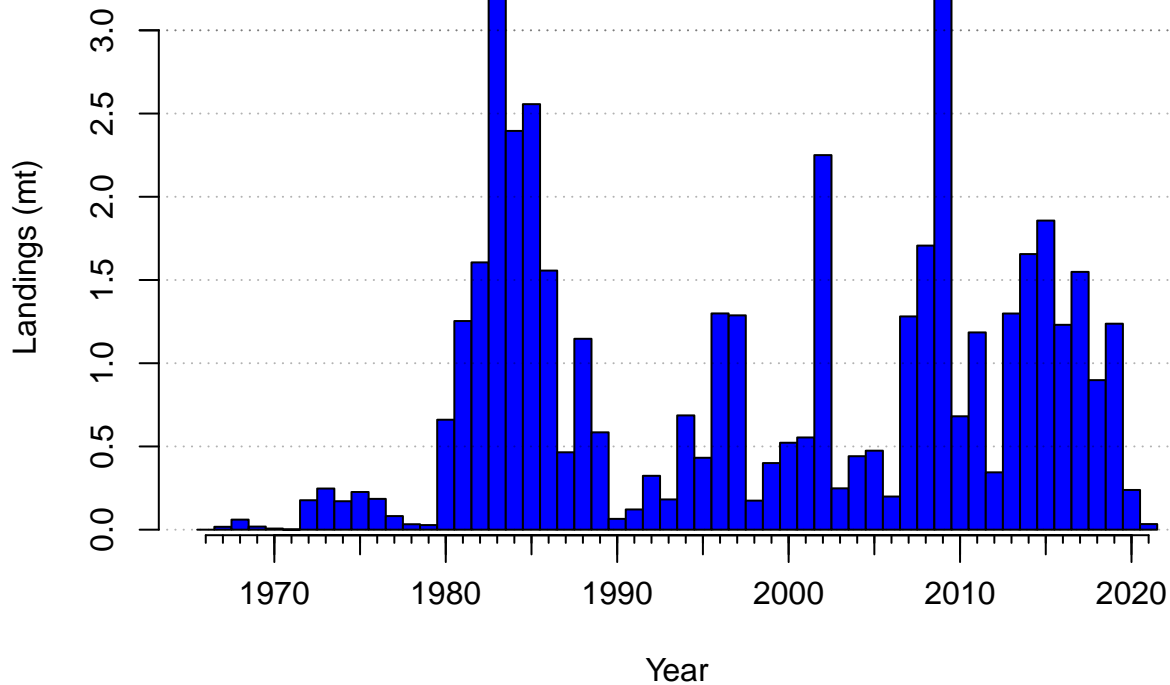


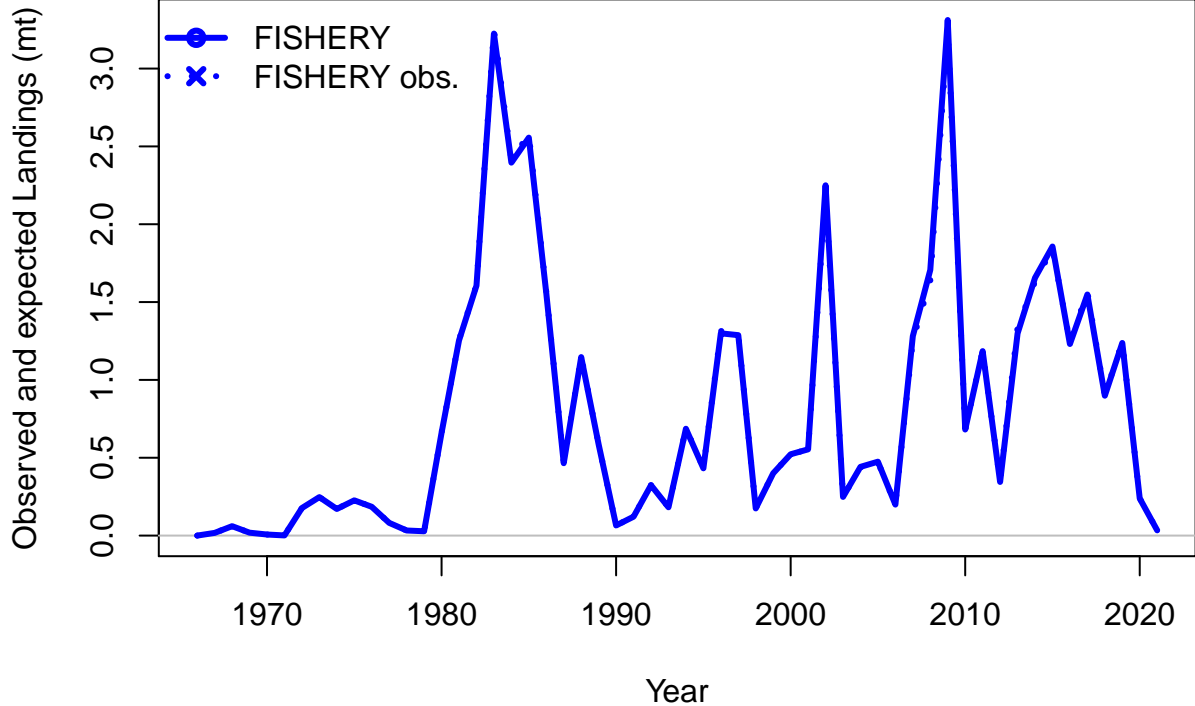


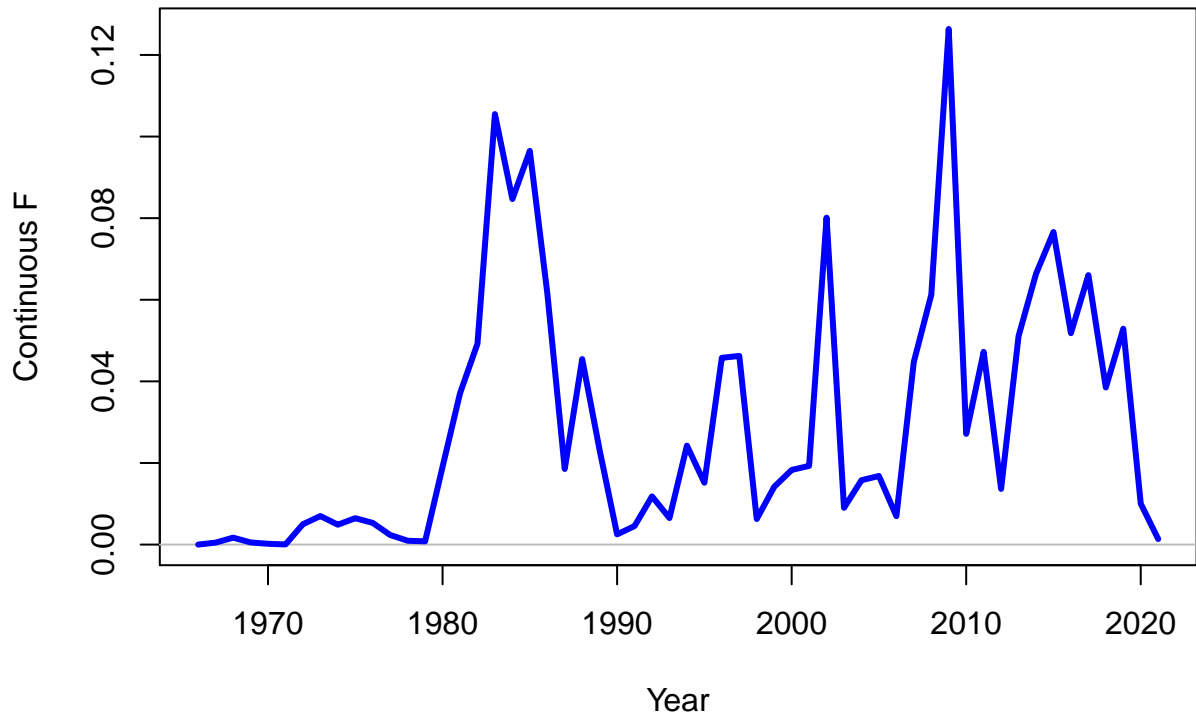




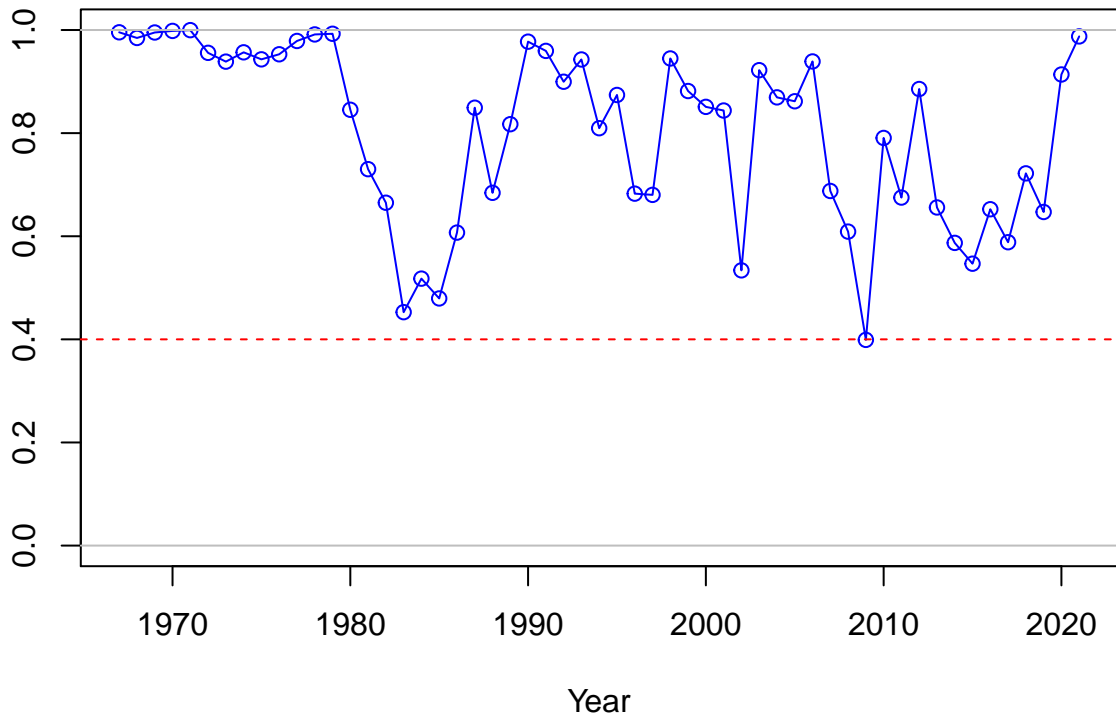




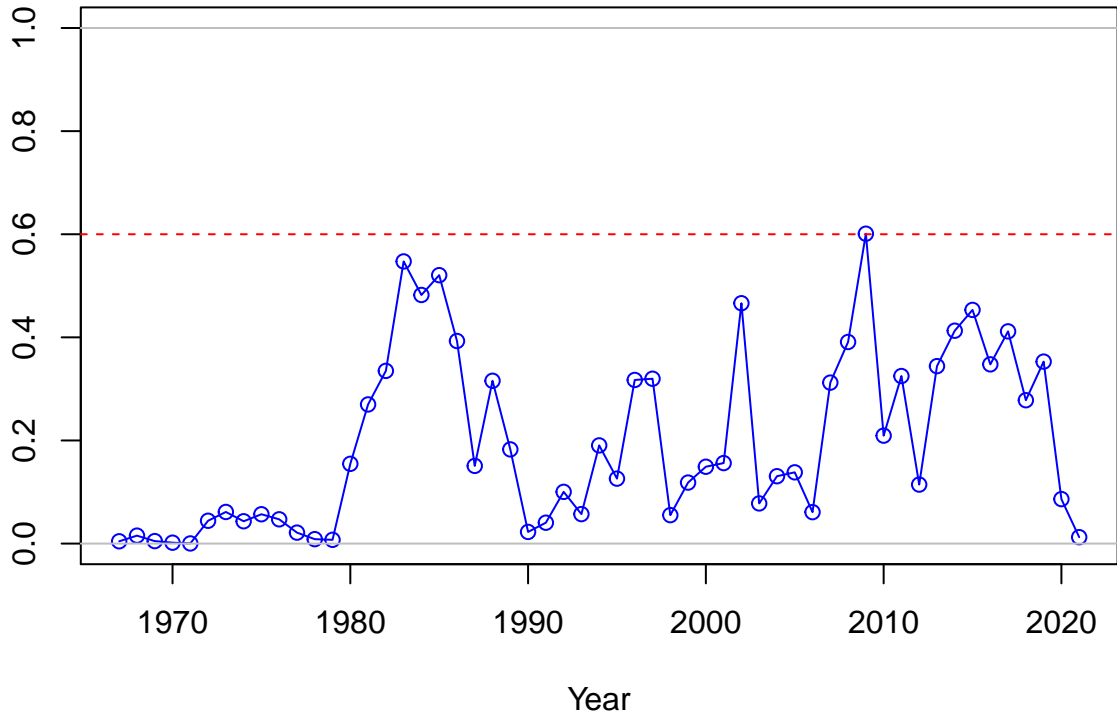




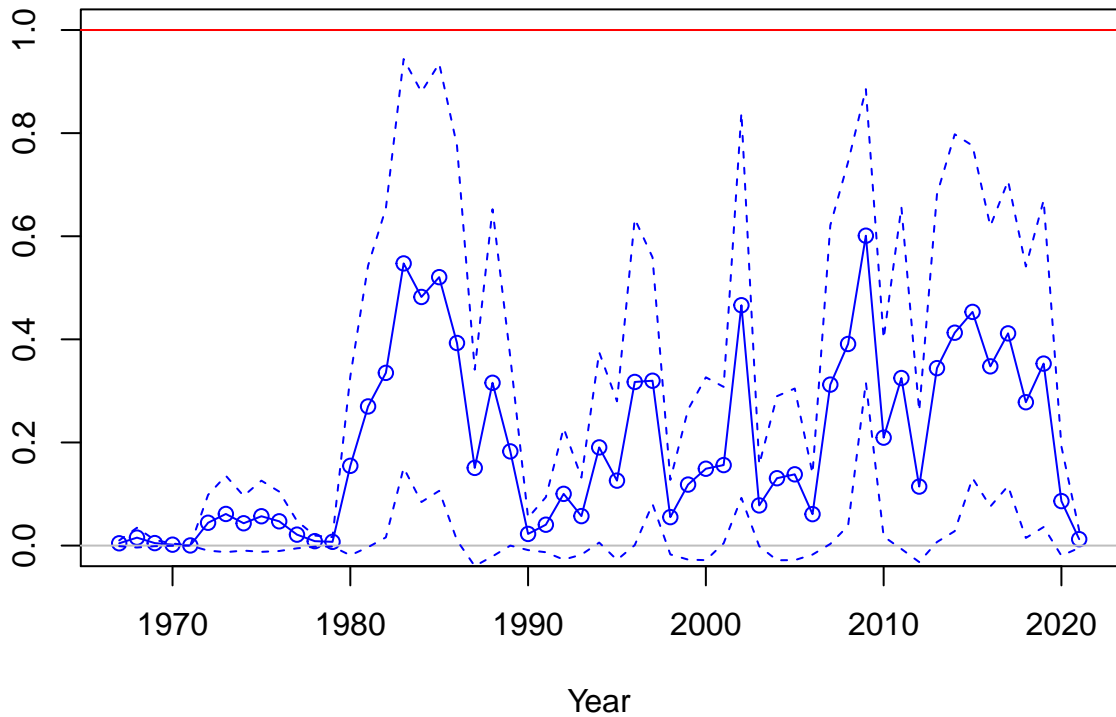
SPR



1-SPR

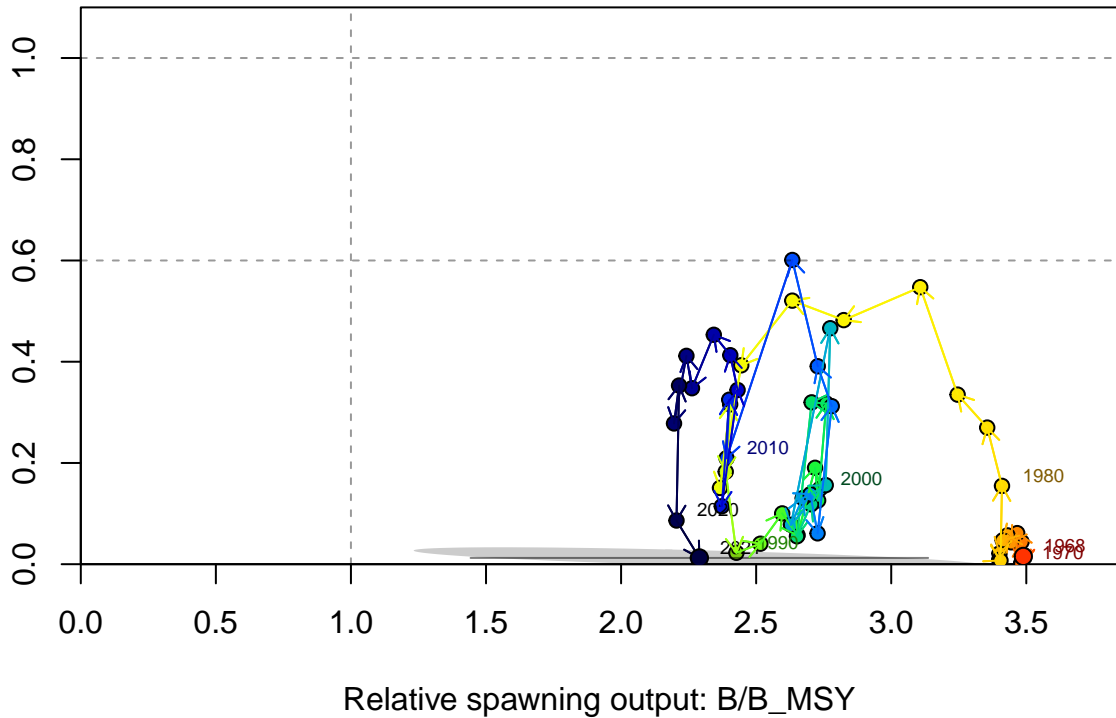


Fishing intensity: 1-SPR

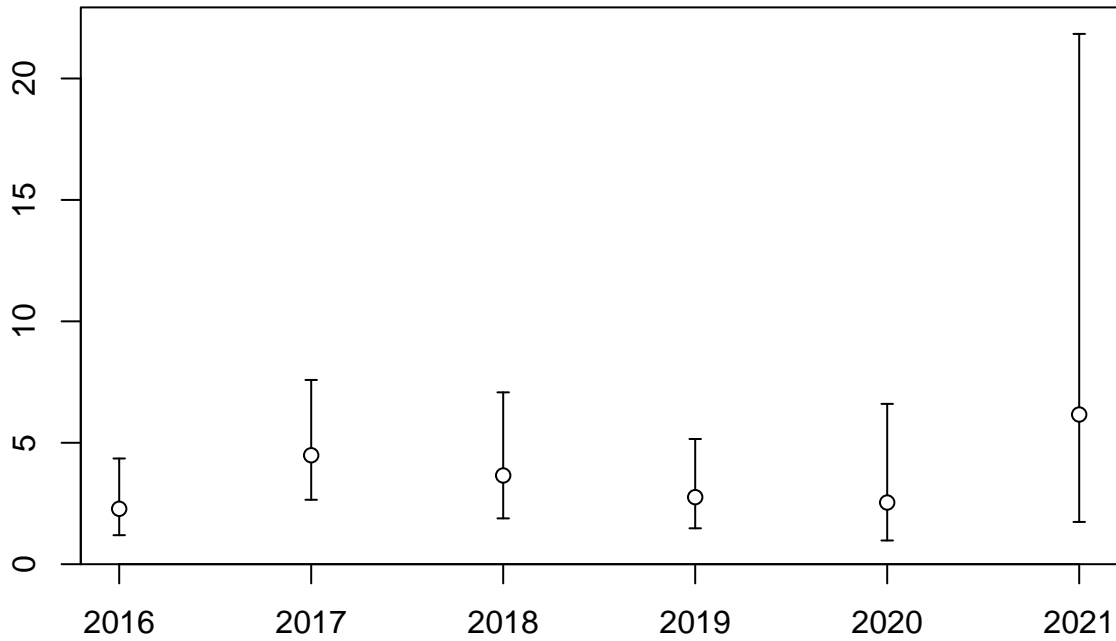




Fishing intensity: 1-SPR

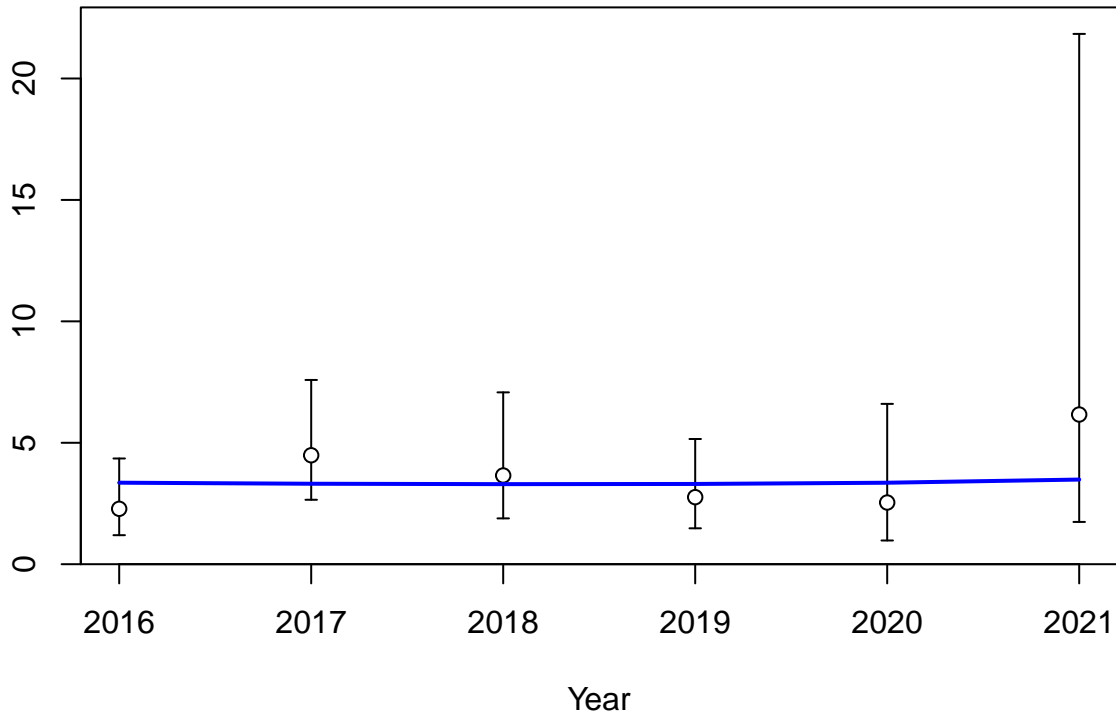


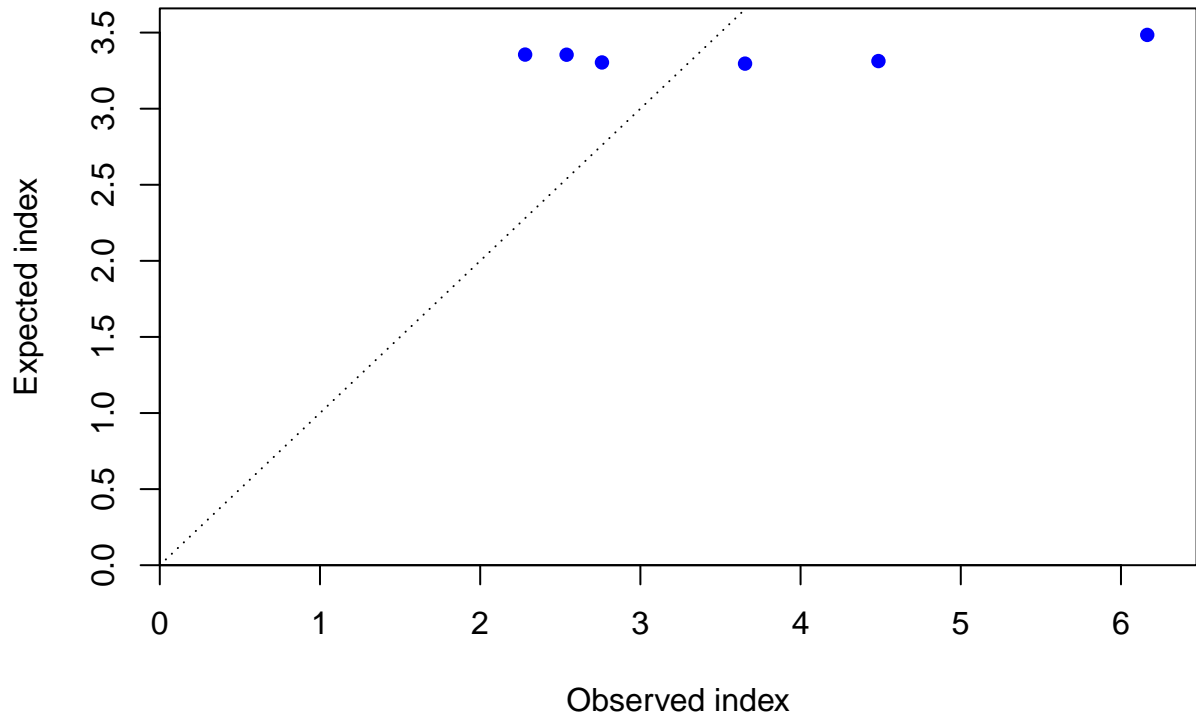
Index



Year

Index





Log index

3.0  
2.5  
2.0  
1.5  
1.0  
0.5  
0.0

2016

2017

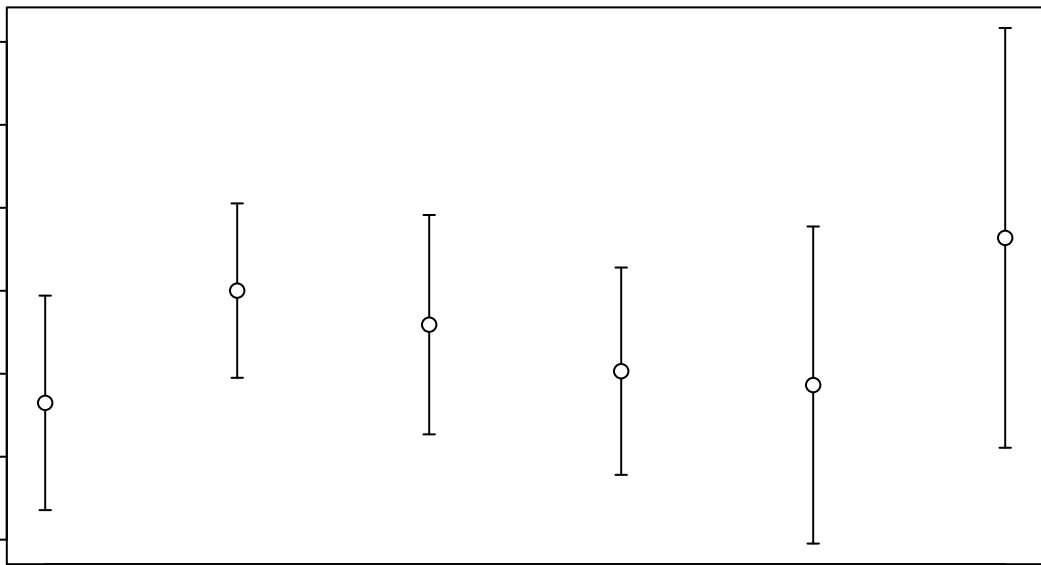
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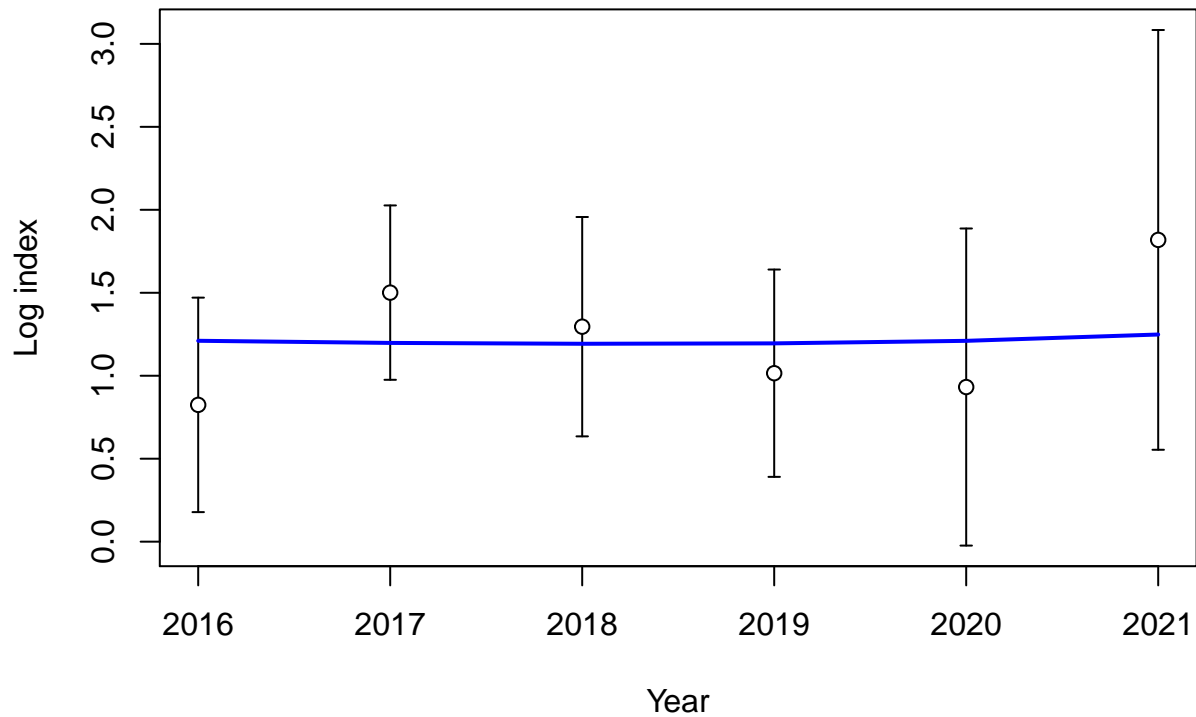
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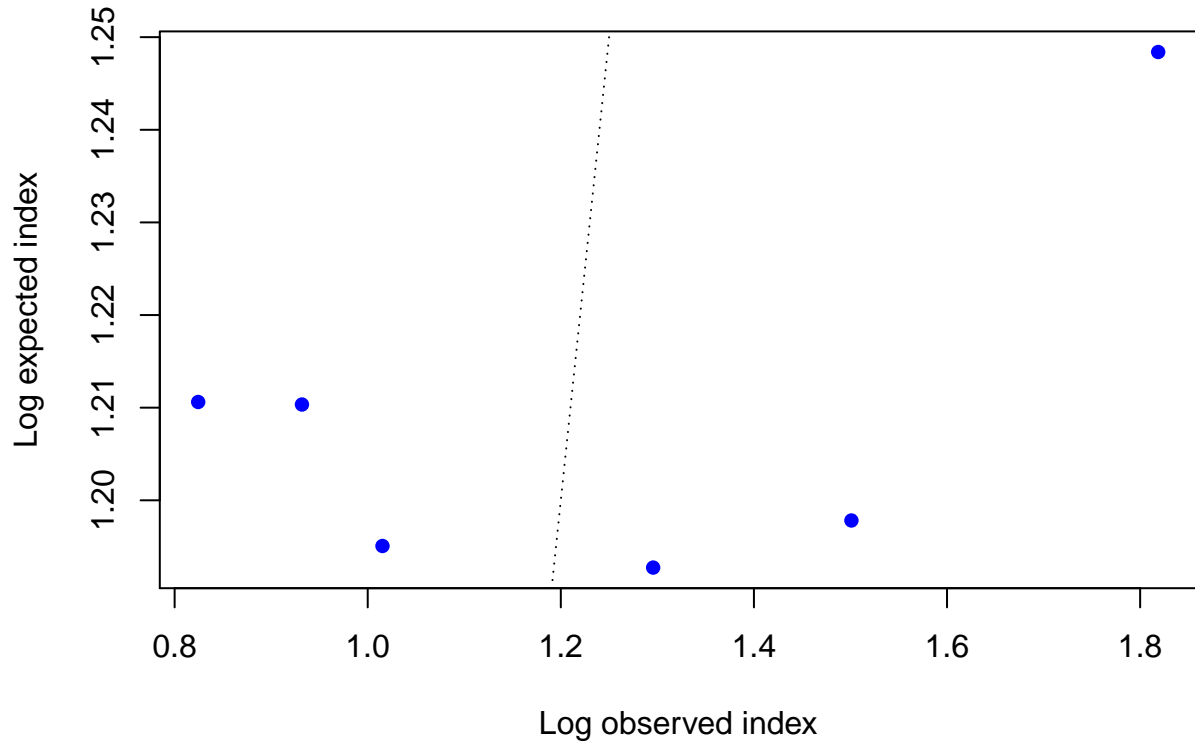
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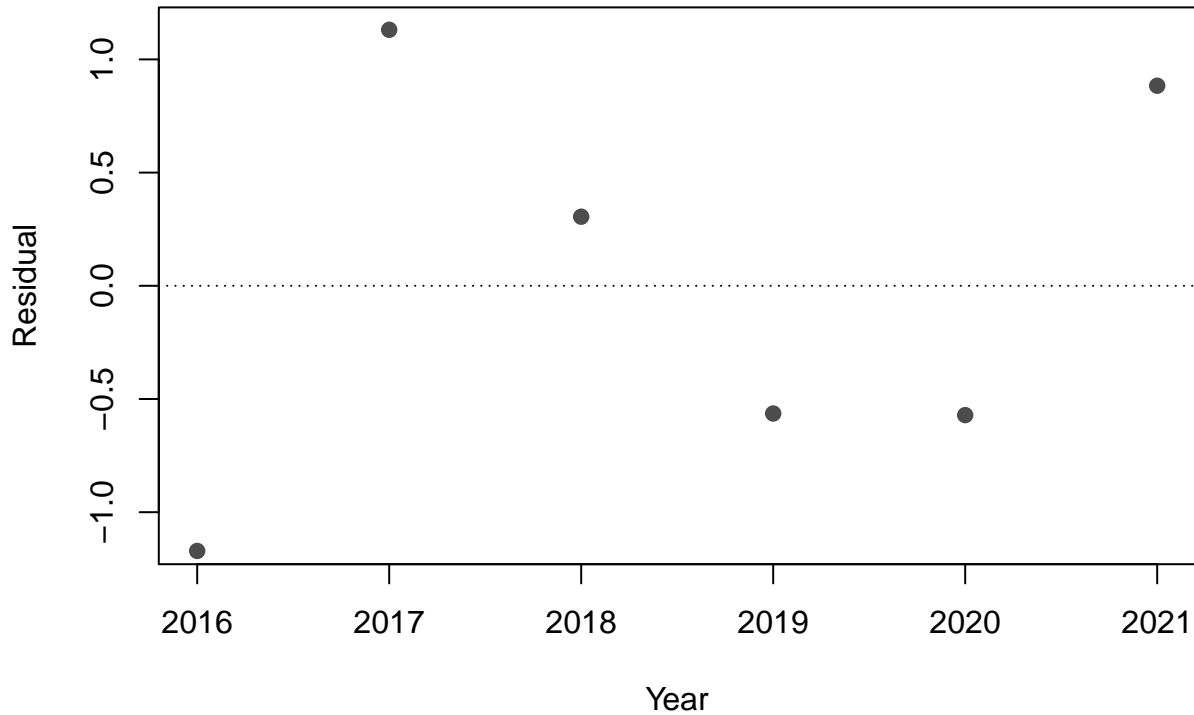
2021

Year

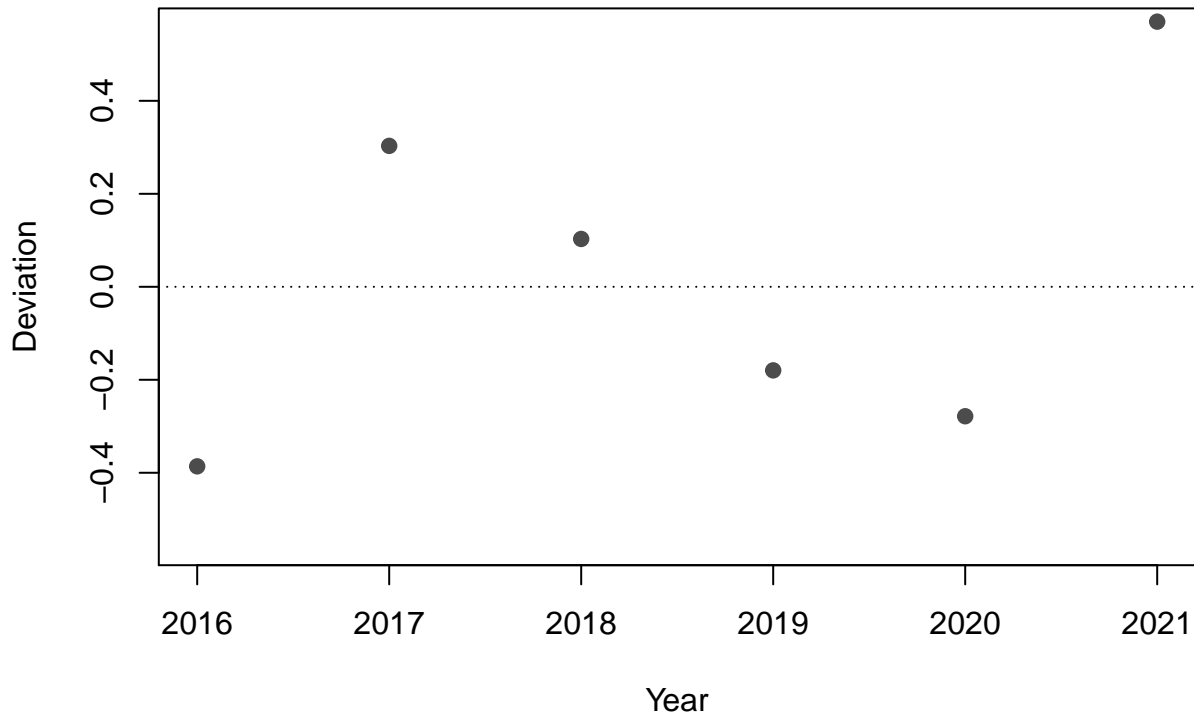


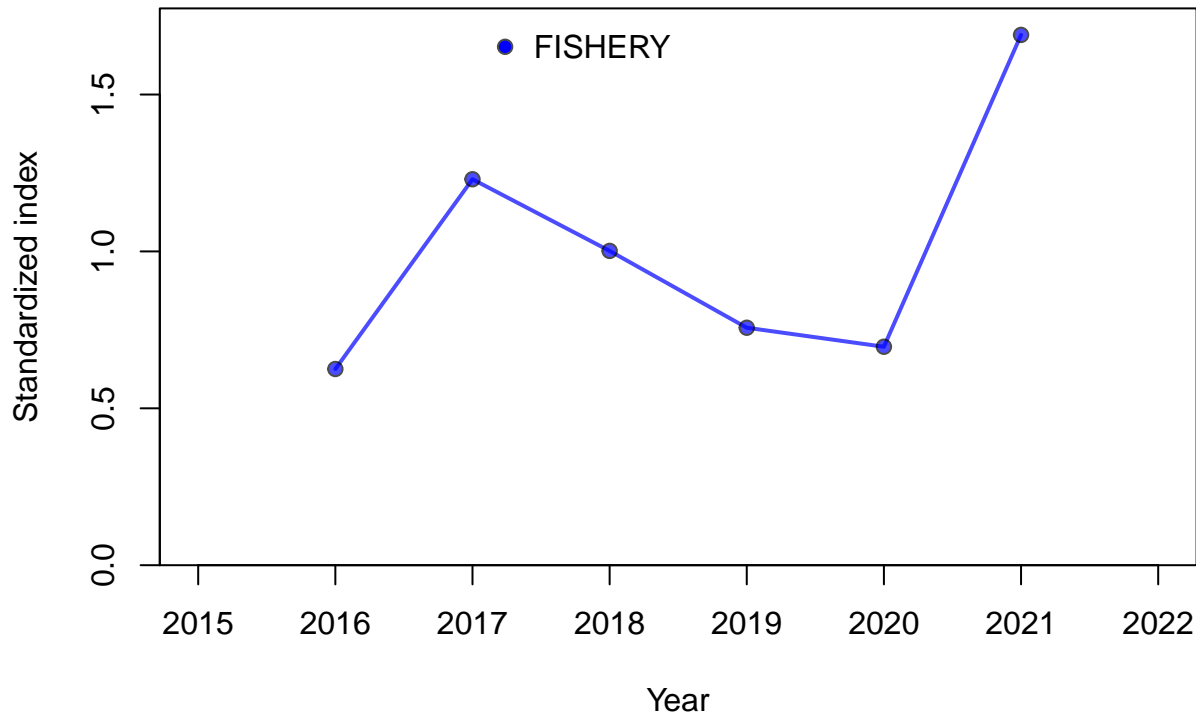


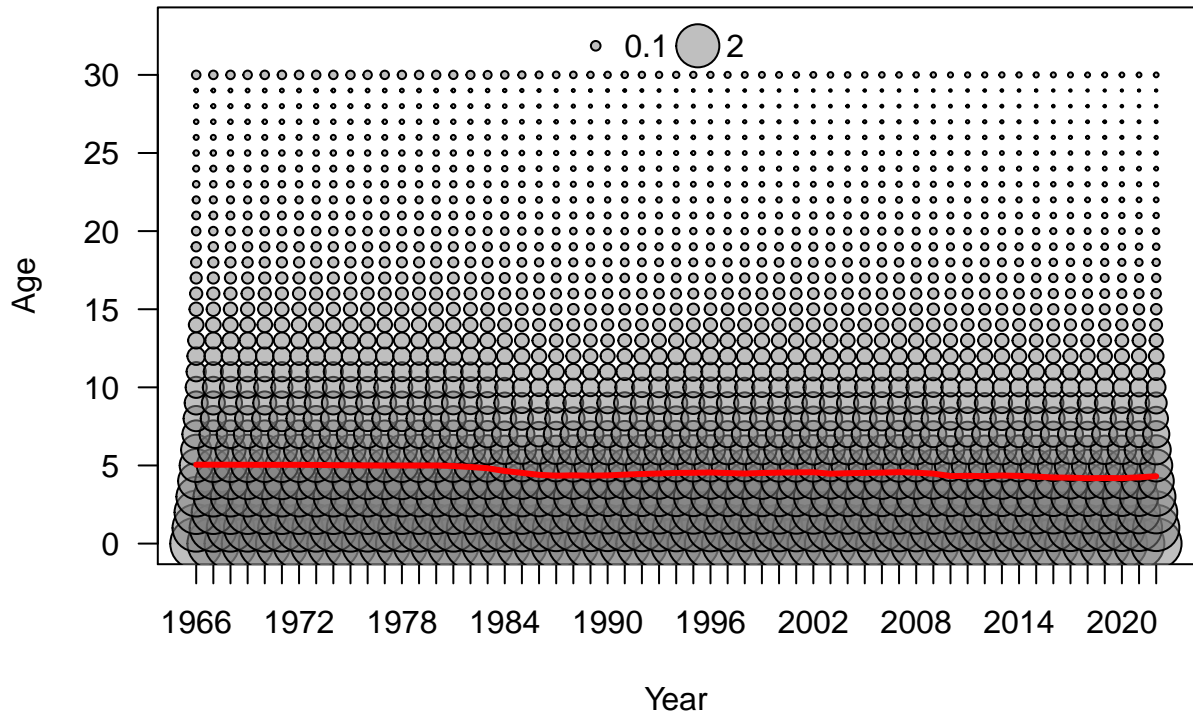


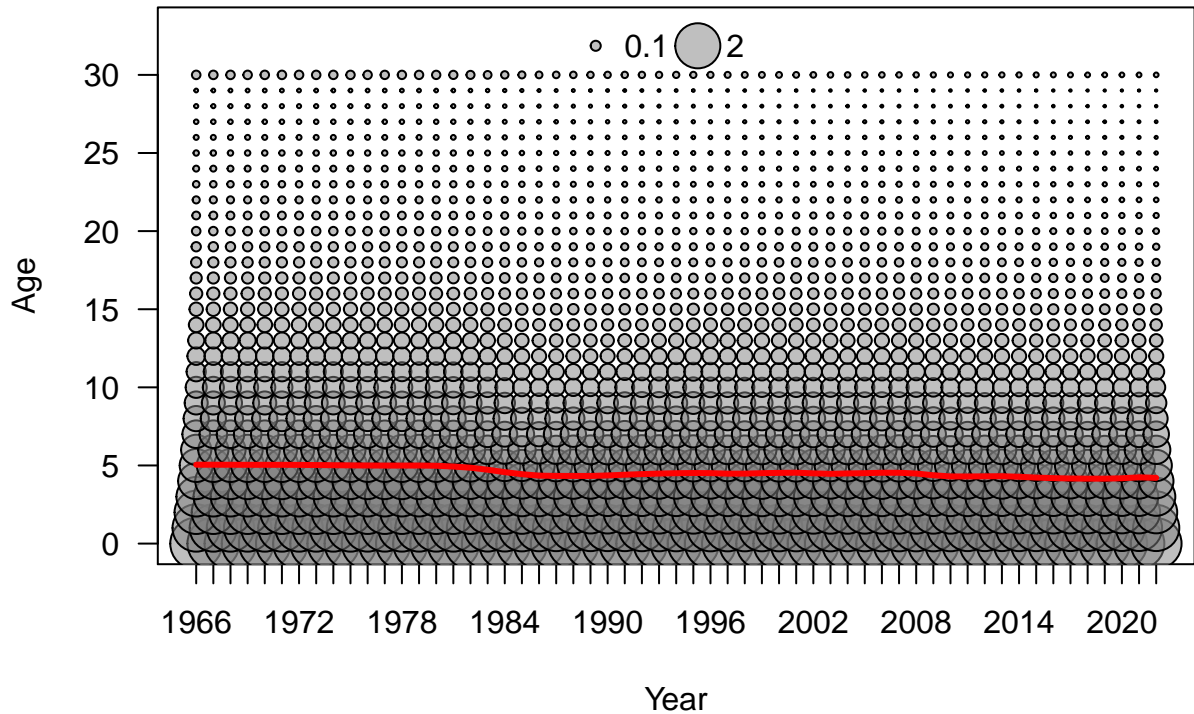


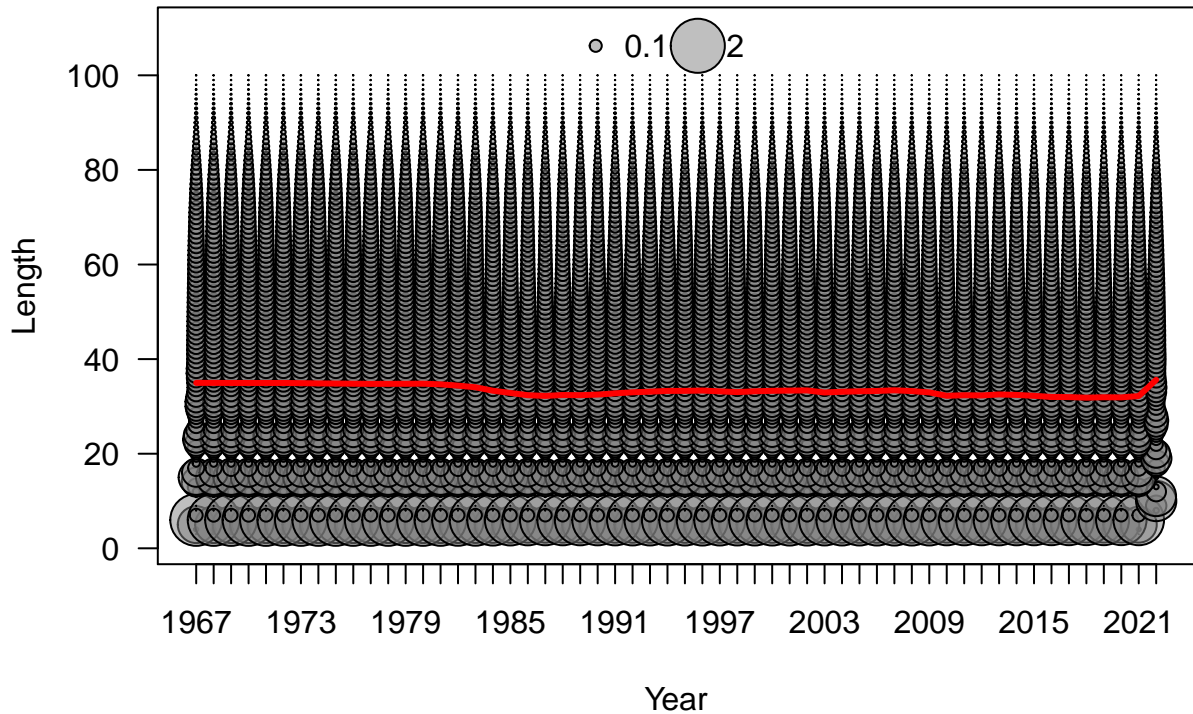


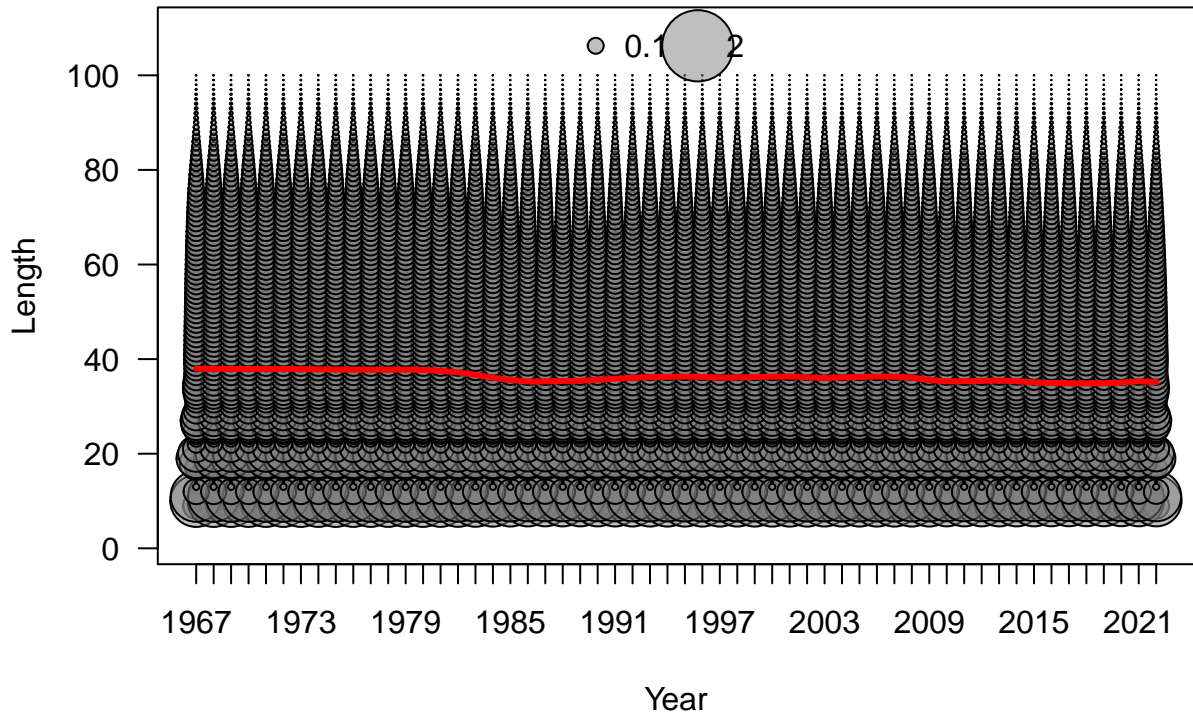


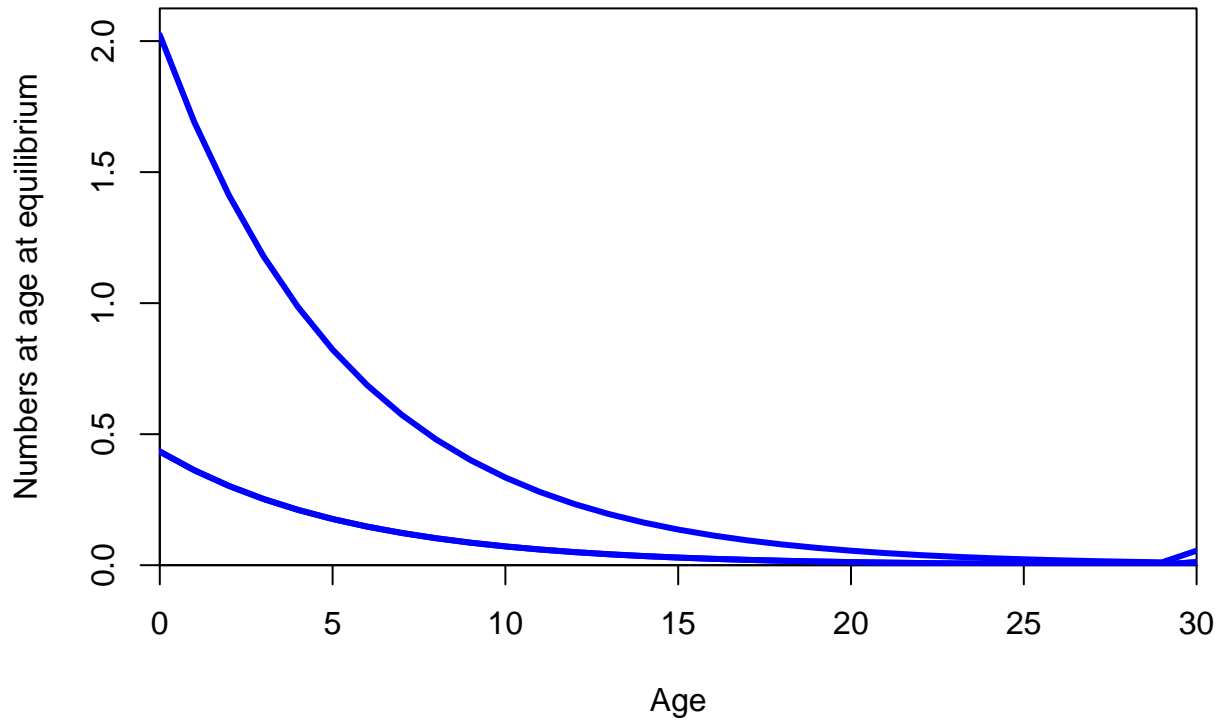






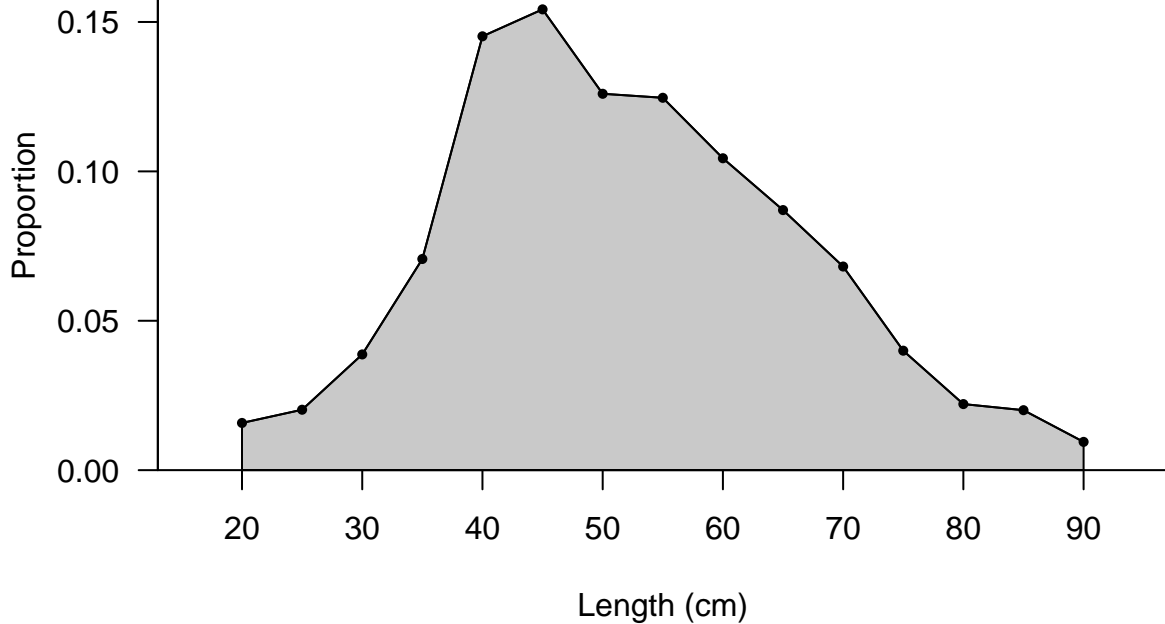






# FISHERY

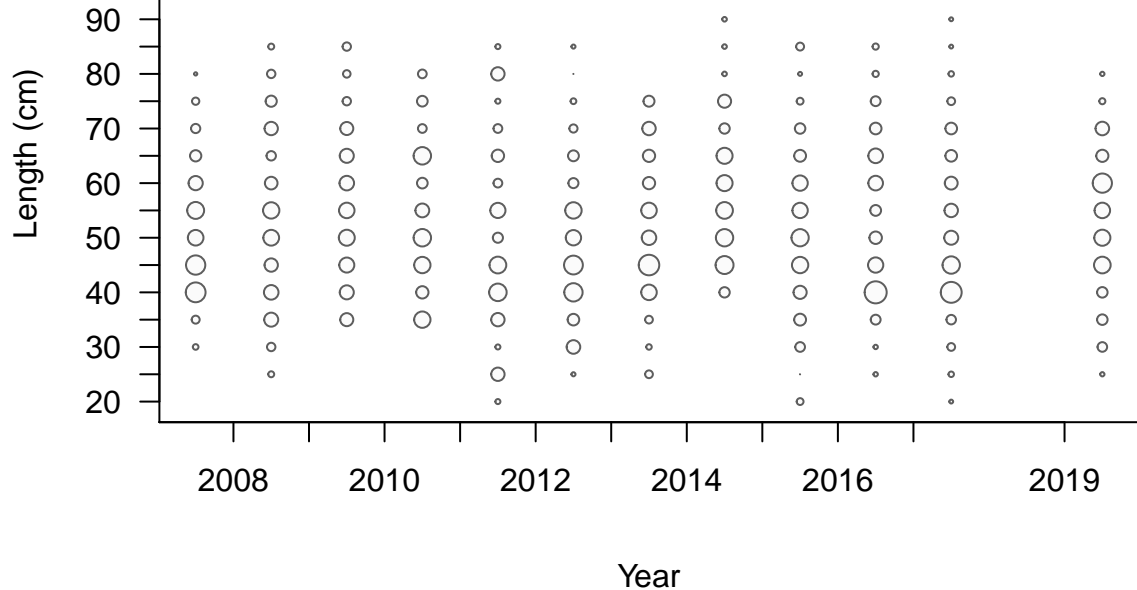
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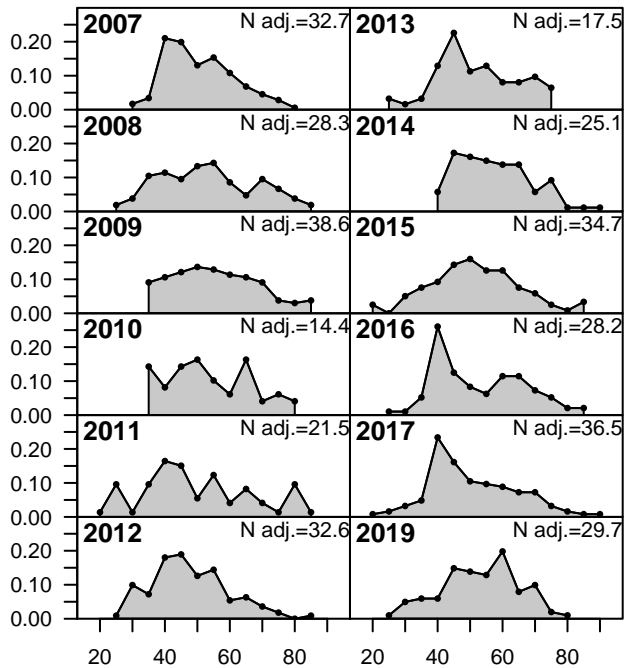


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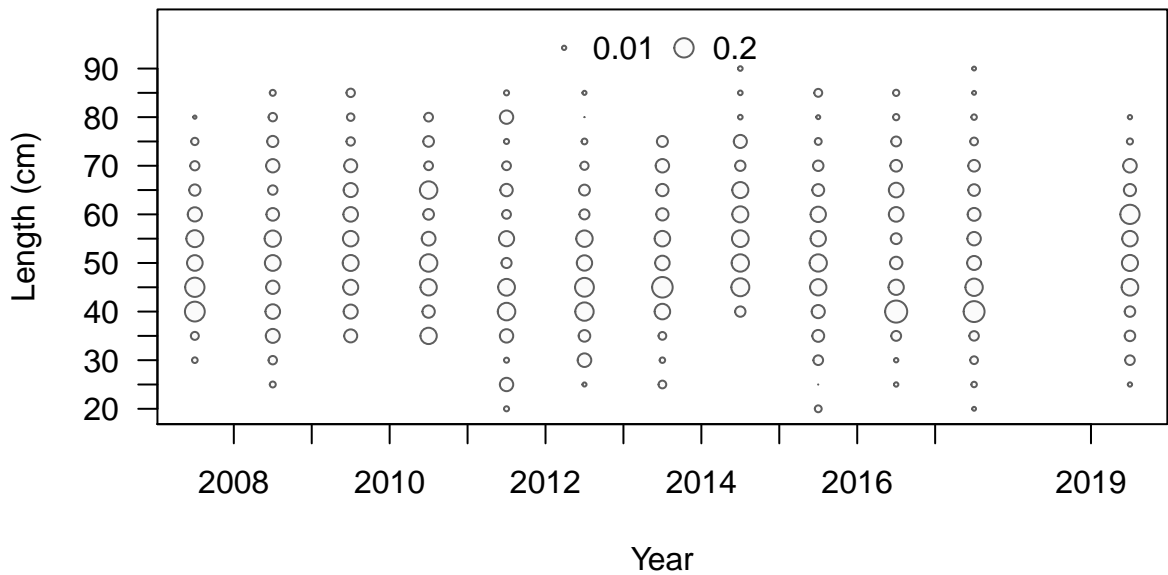
◦ 0.01 ○ 0.2



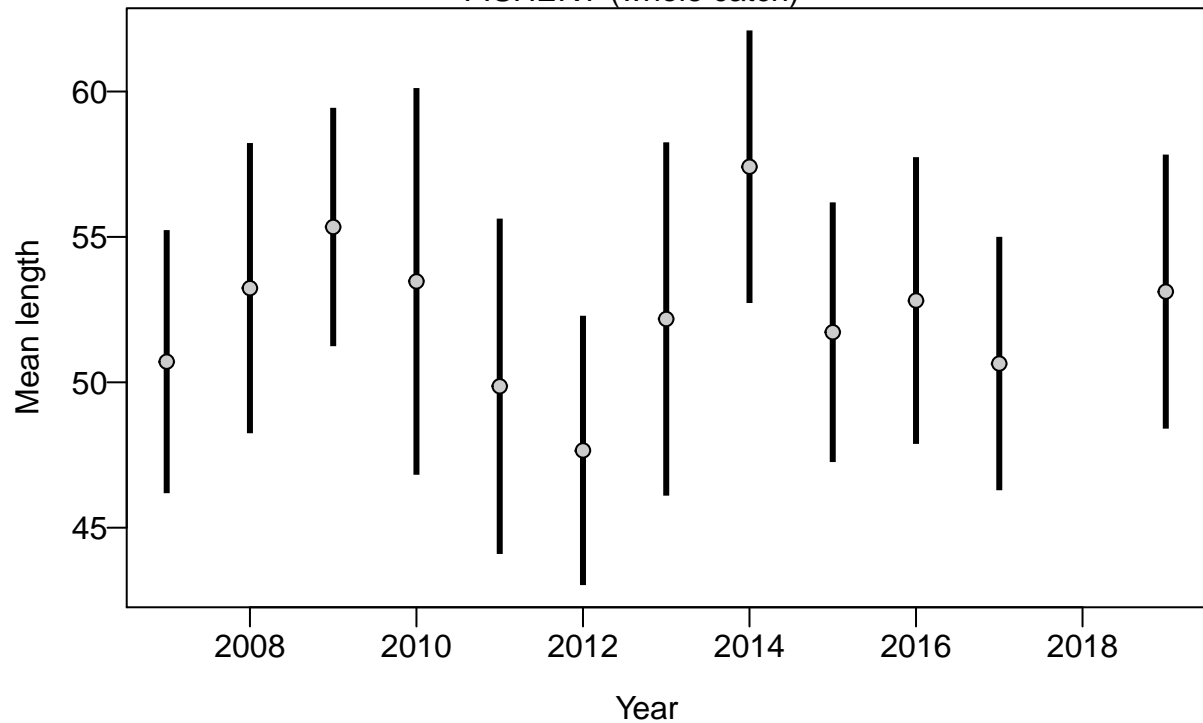
Proportion



Length (cm)

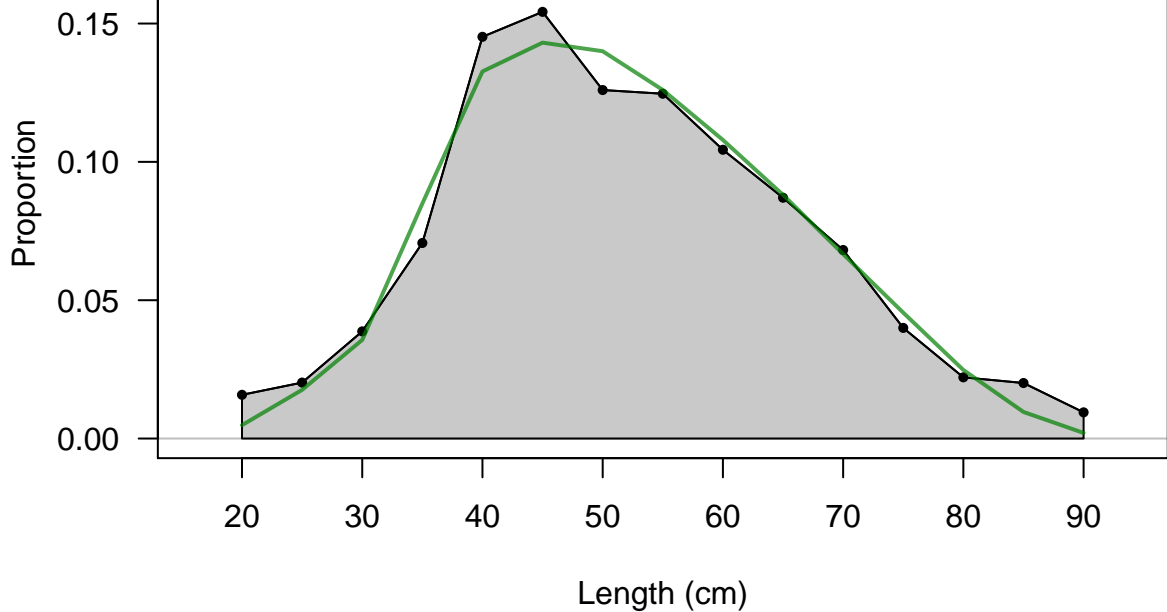


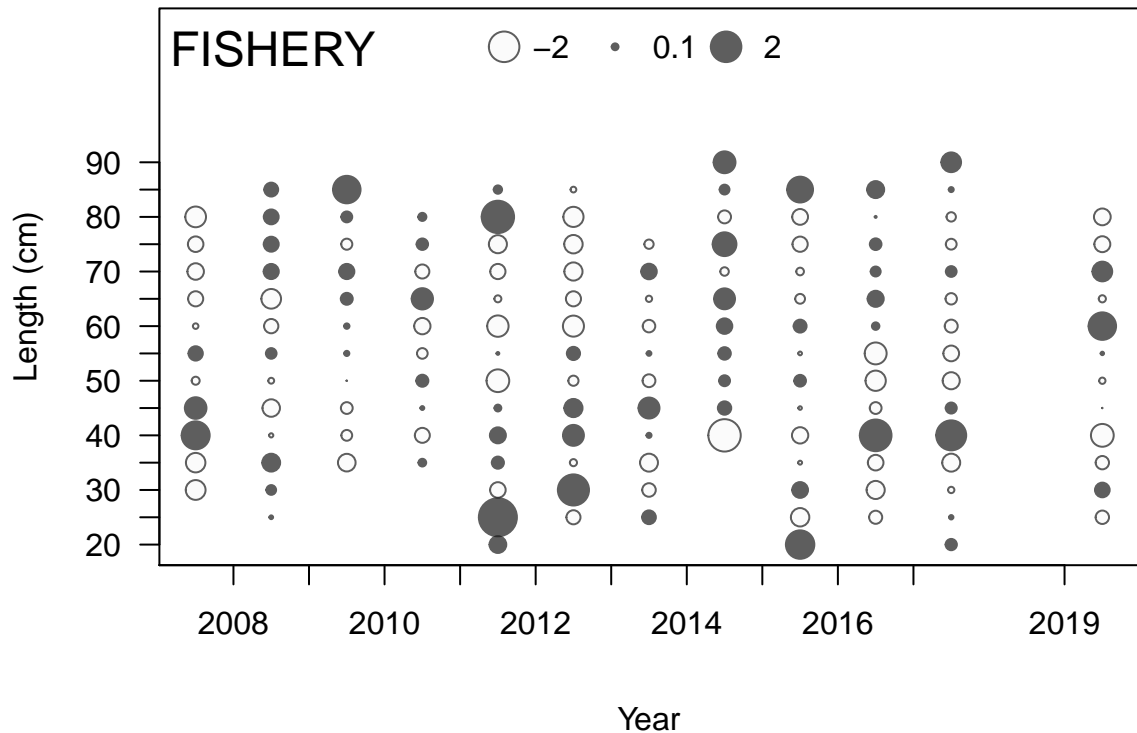
FISHERY (whole catch)



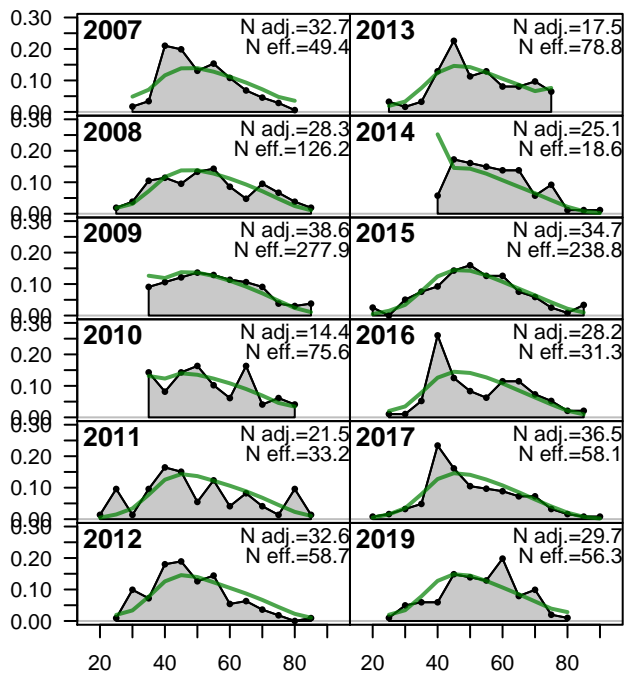
# FISHERY

Sum of N adj.=339.8  
Sum of N eff.=1102.8

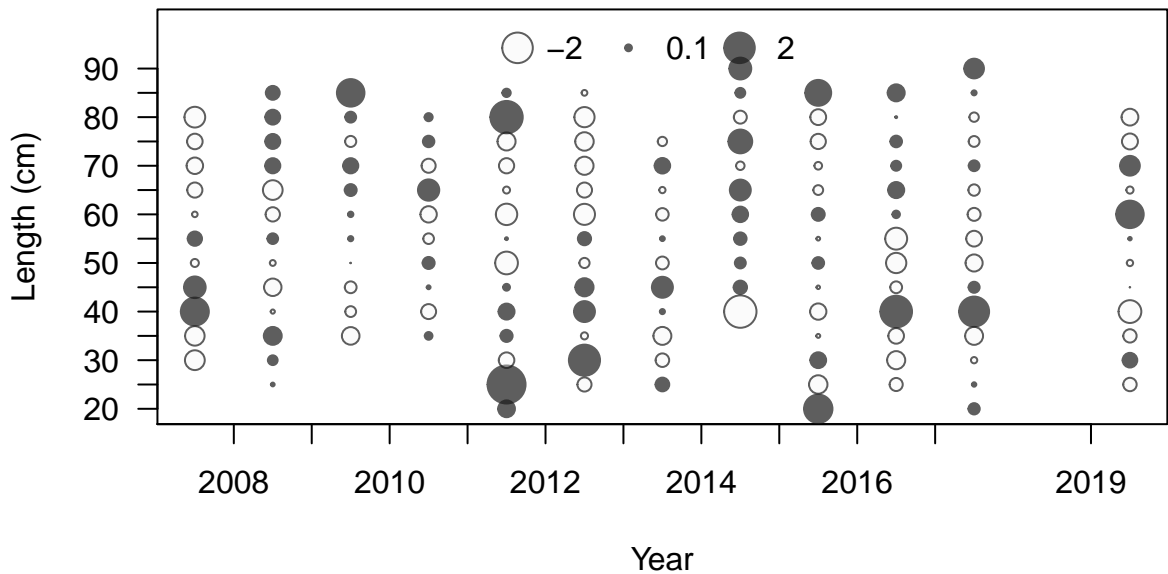




Proportion

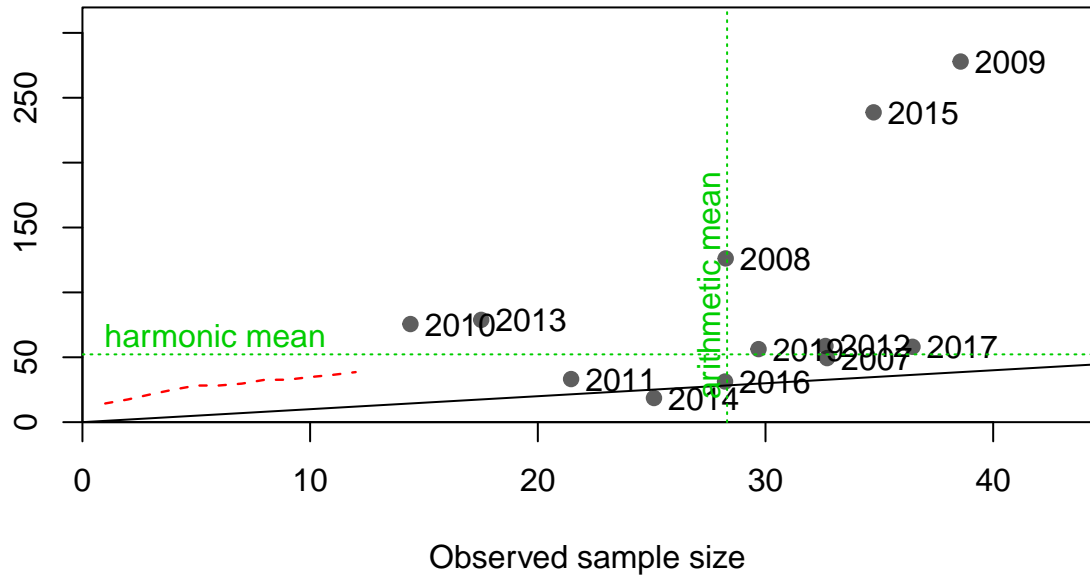


Length (cm)

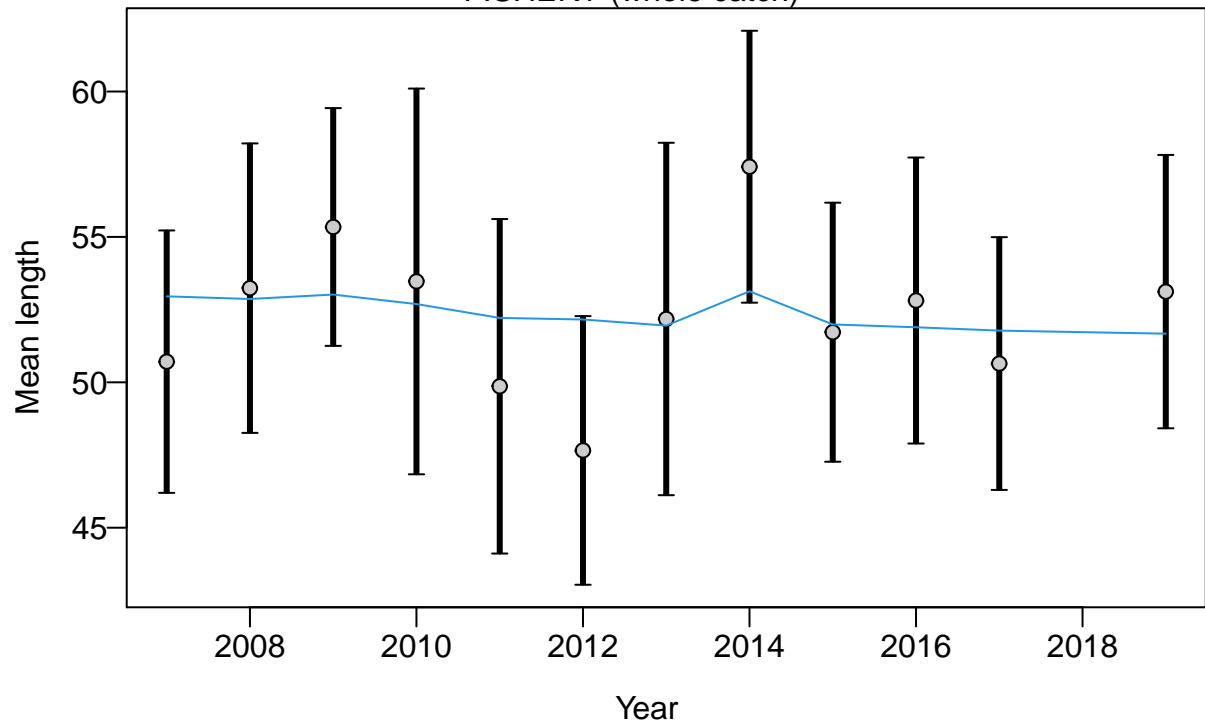


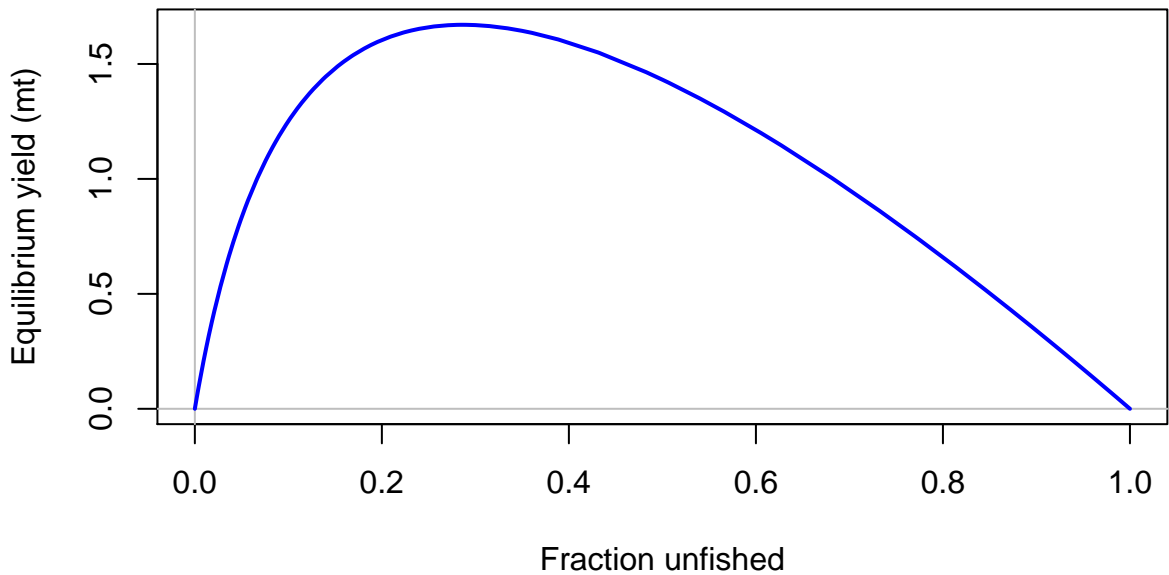


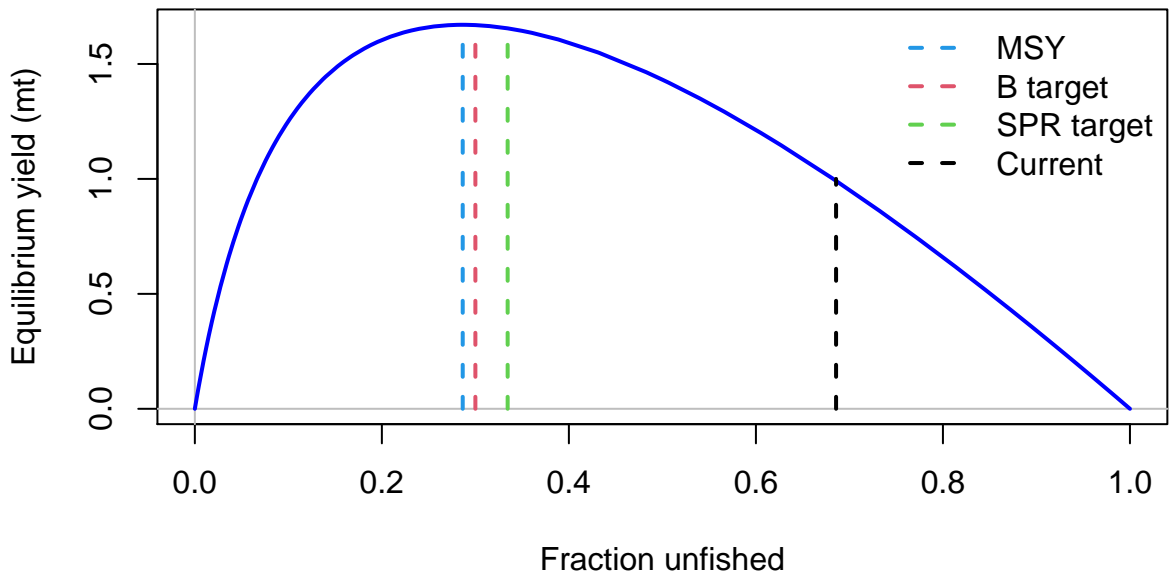
Effective sample size

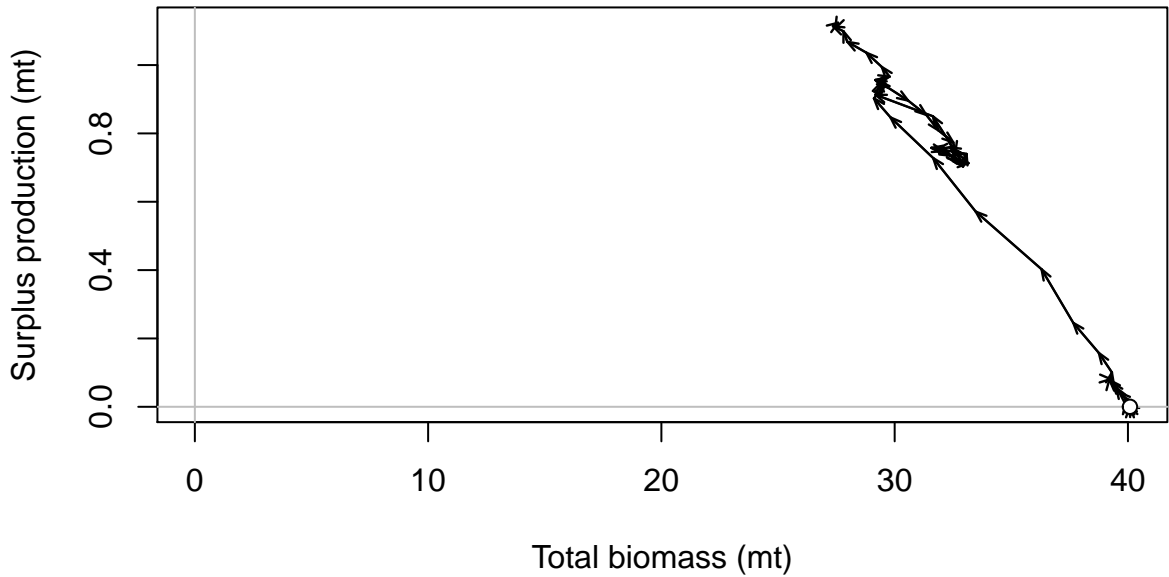


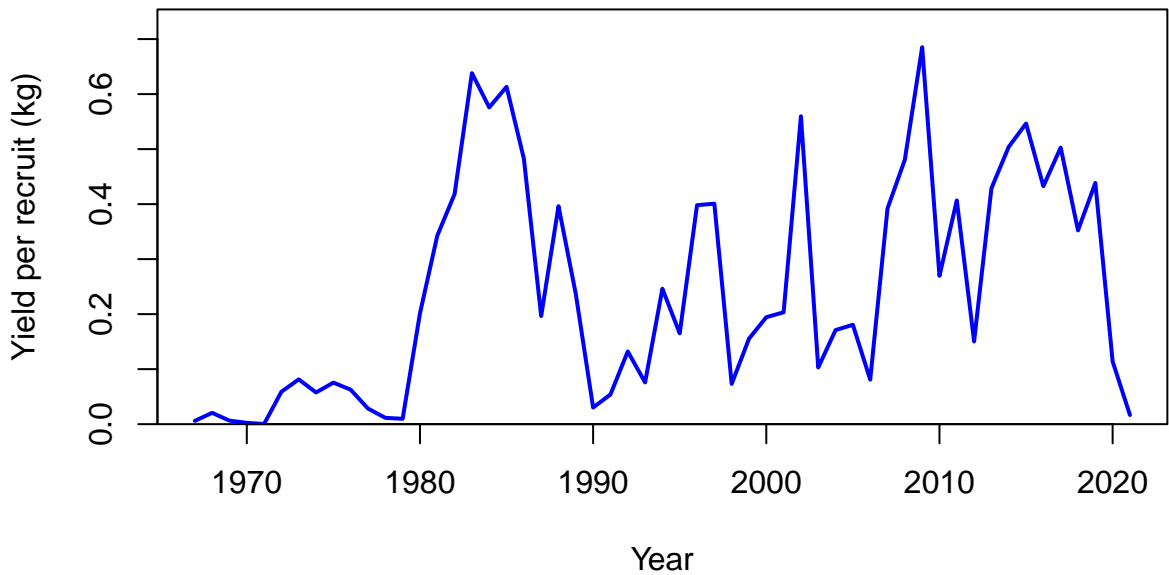
FISHERY (whole catch)

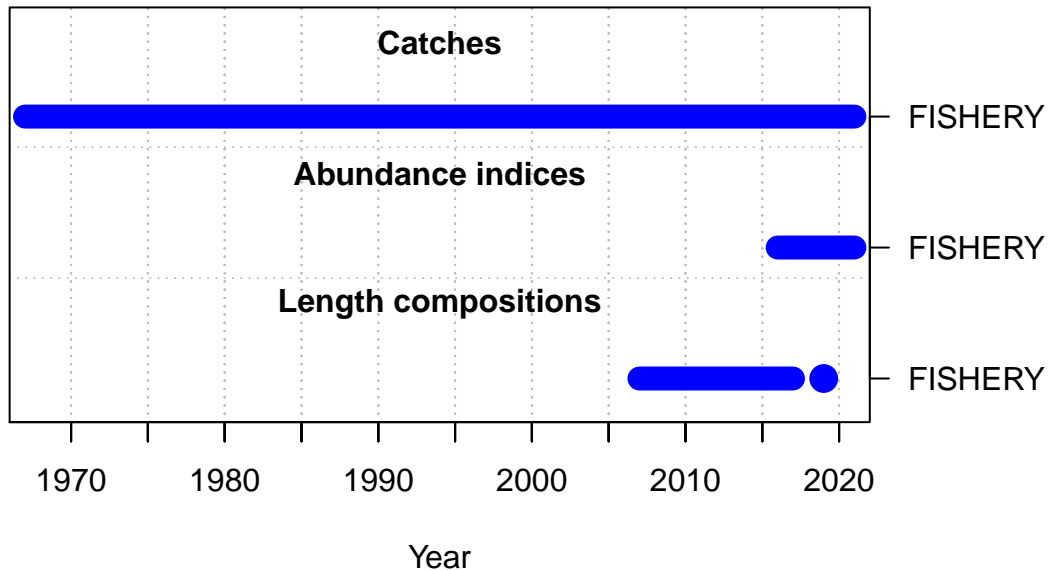


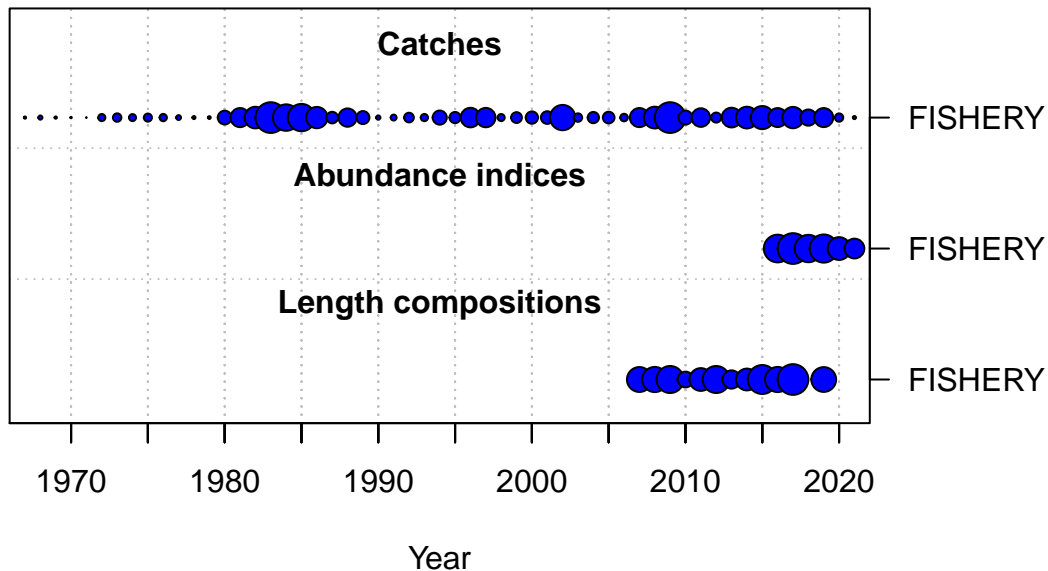










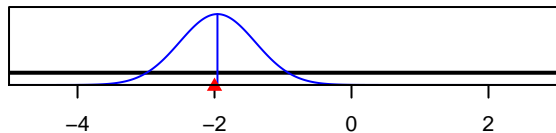




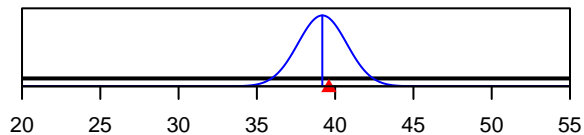
SR\_LN(R0)



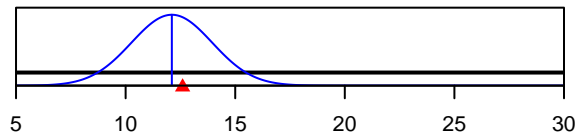
LnQ\_base\_FISHERY(1)



Size\_inflection\_FISHERY(1)



Size\_95%width\_FISHERY(1)



Parameter value

Density