

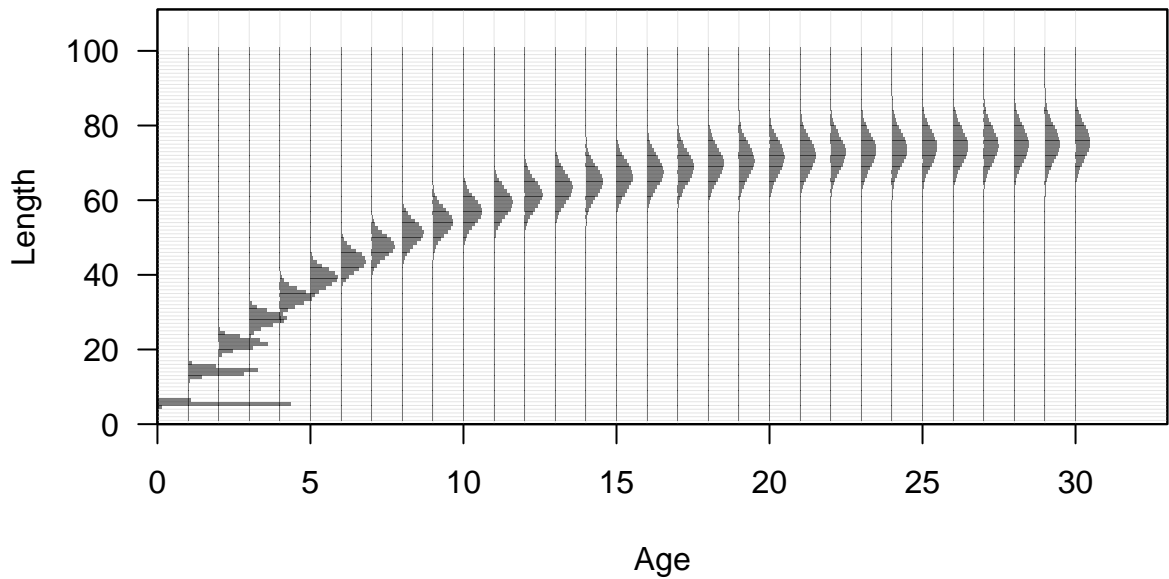
Plots created using the 'r4ss' package in R  
Stock Synthesis version: 3.30.19.0  
StartTime: Thu Sep 29 14:47:45 2022  
Data\_File: data.ss  
Control\_File: control.ss

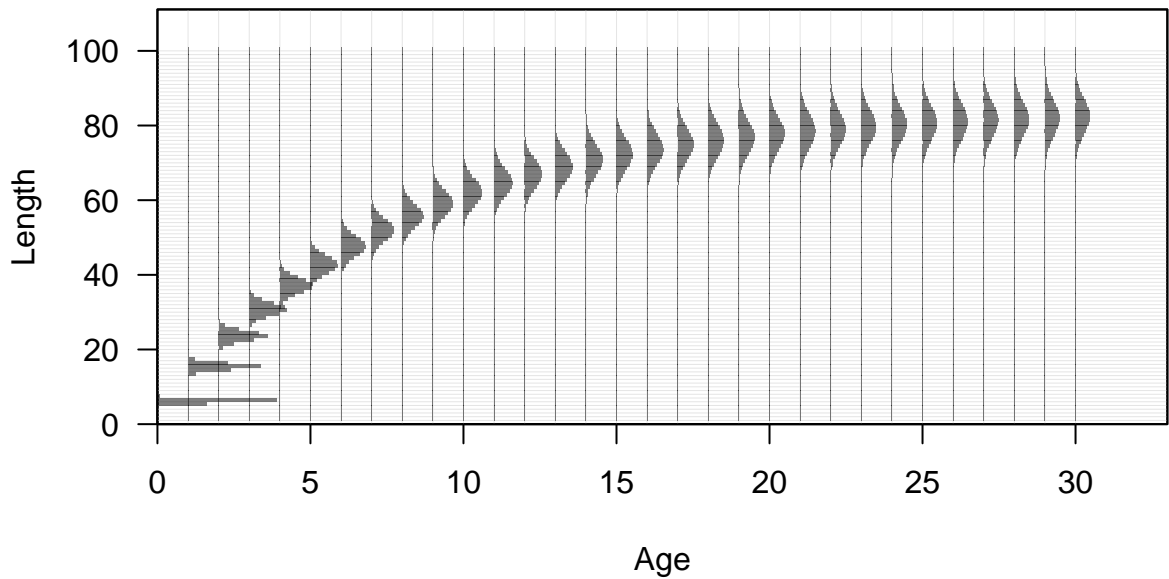
Length (cm, beginning of the year)



























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

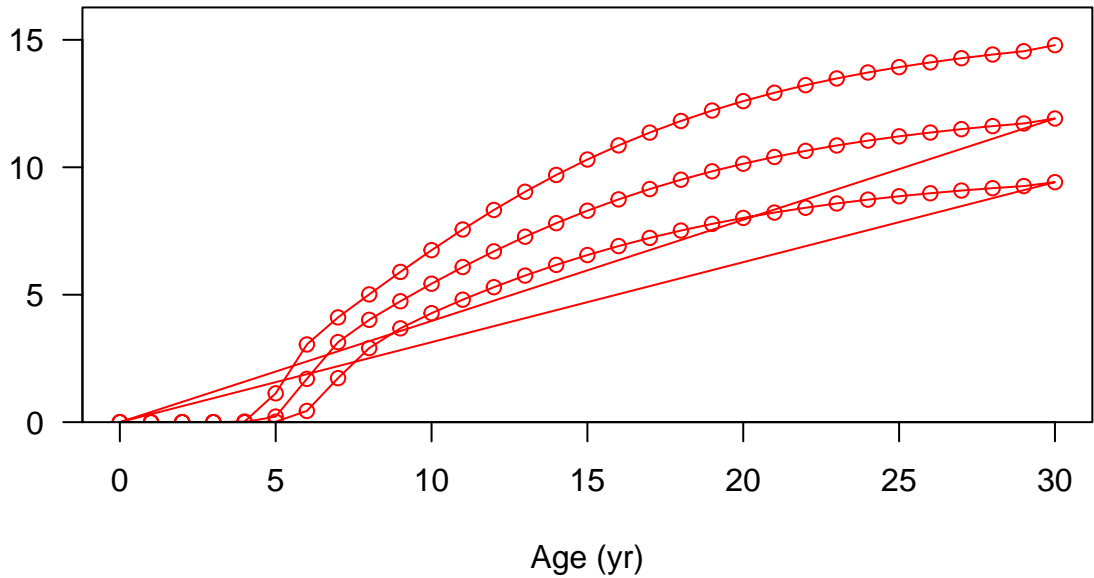
100

Length (cm)





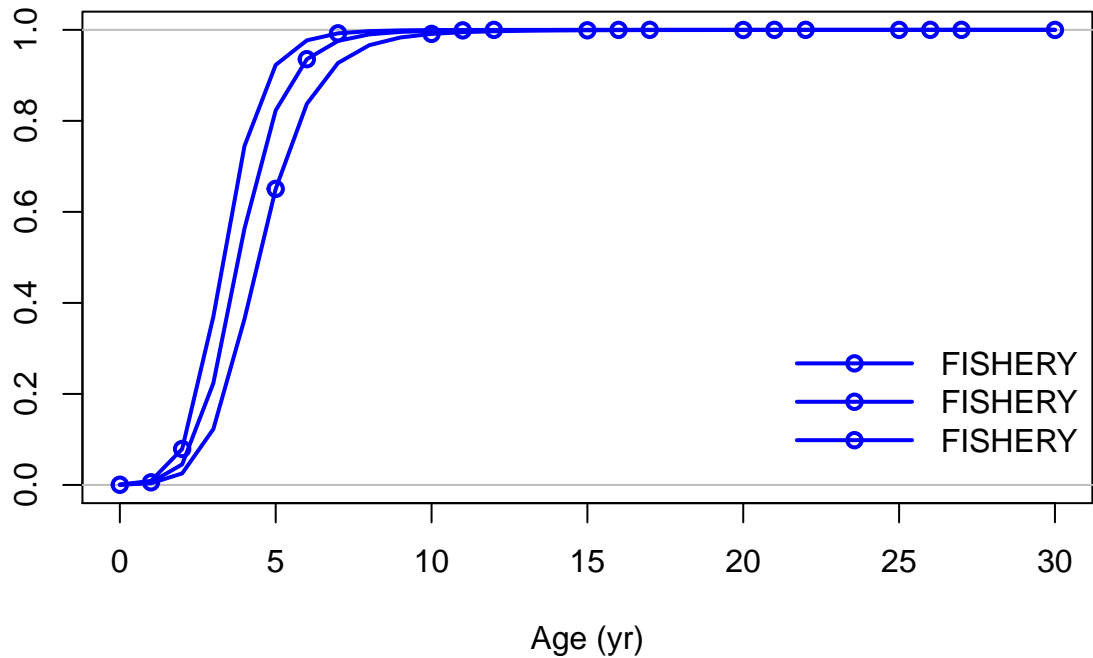
Spawning output



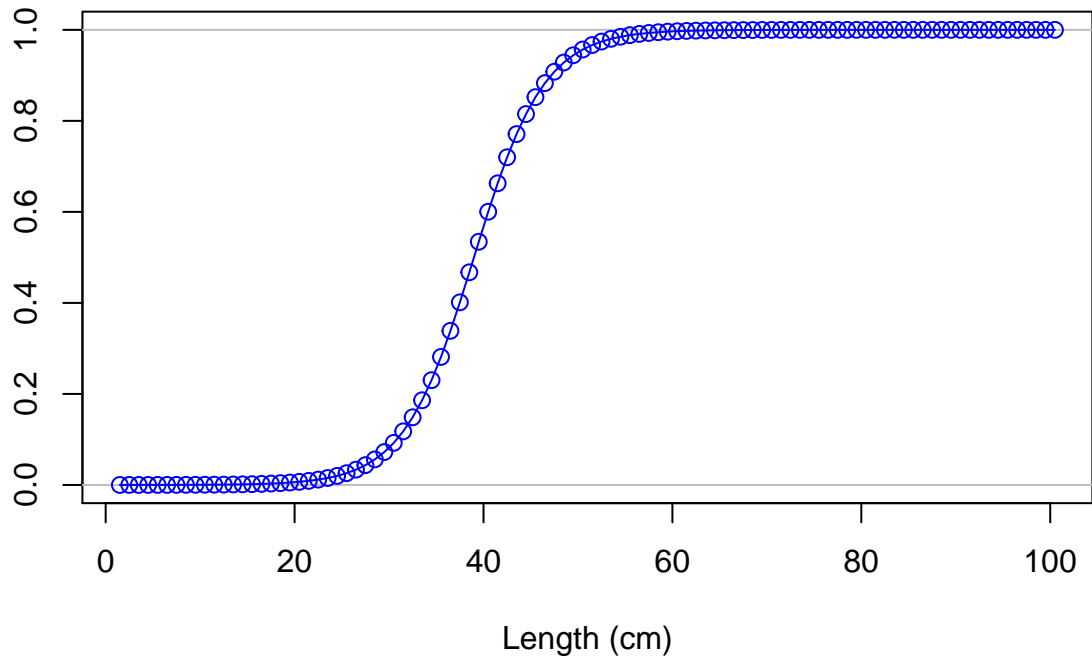
Selectivity

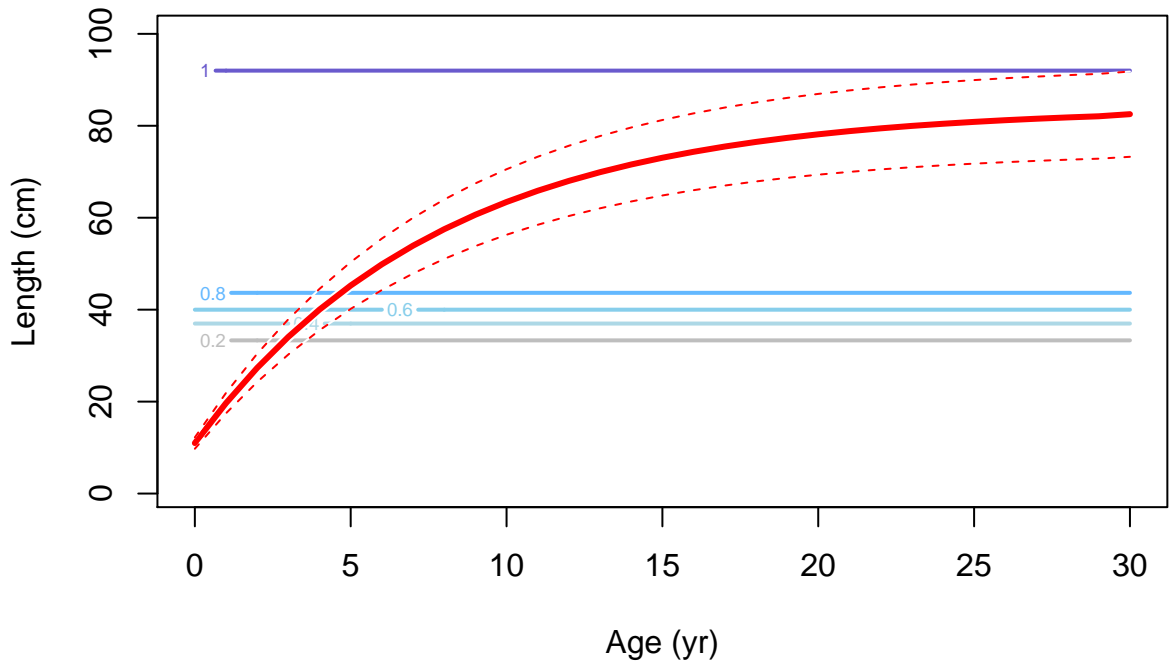


Selectivity

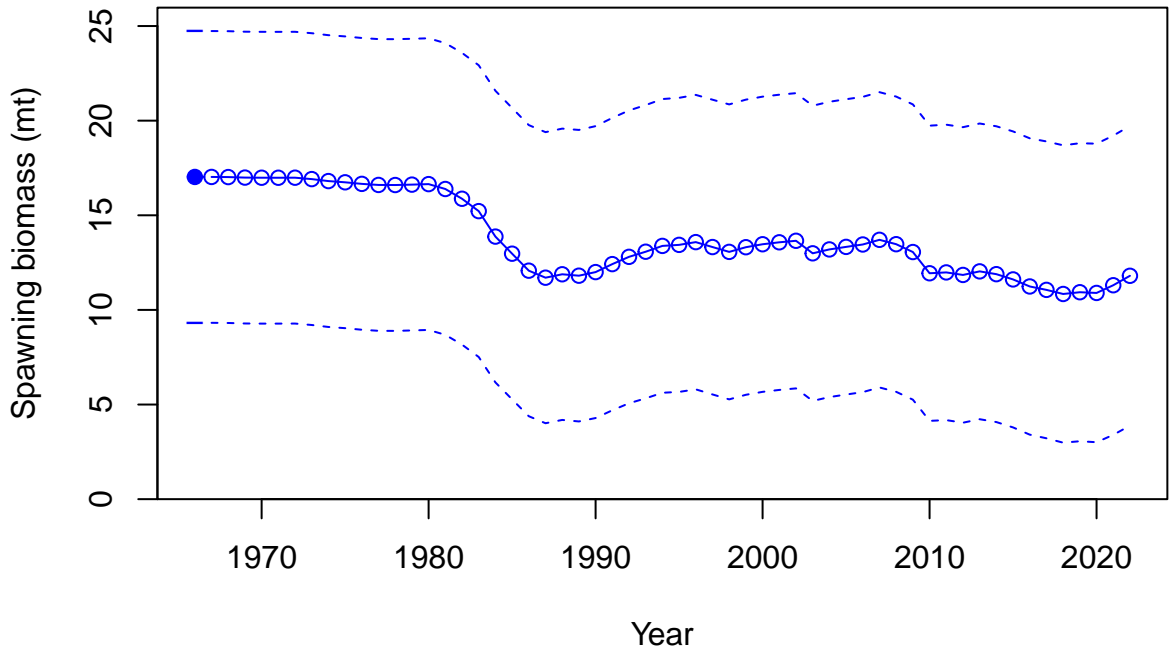


Selectivity









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



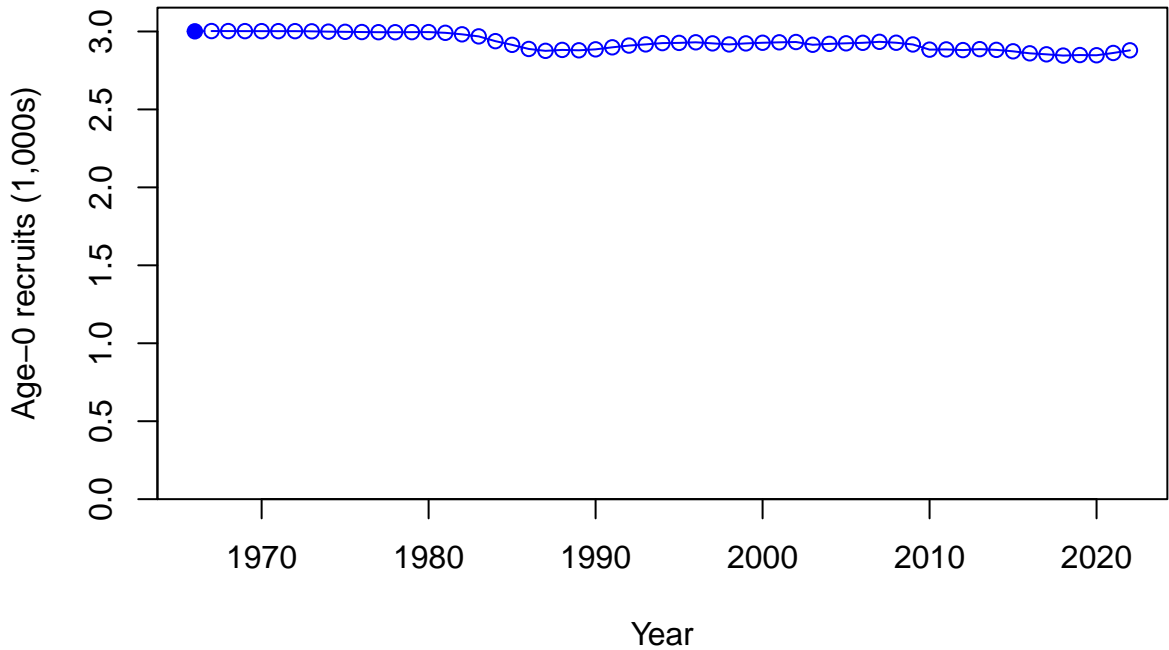


Relative spawning biomass:  $B/B_{MSY}$

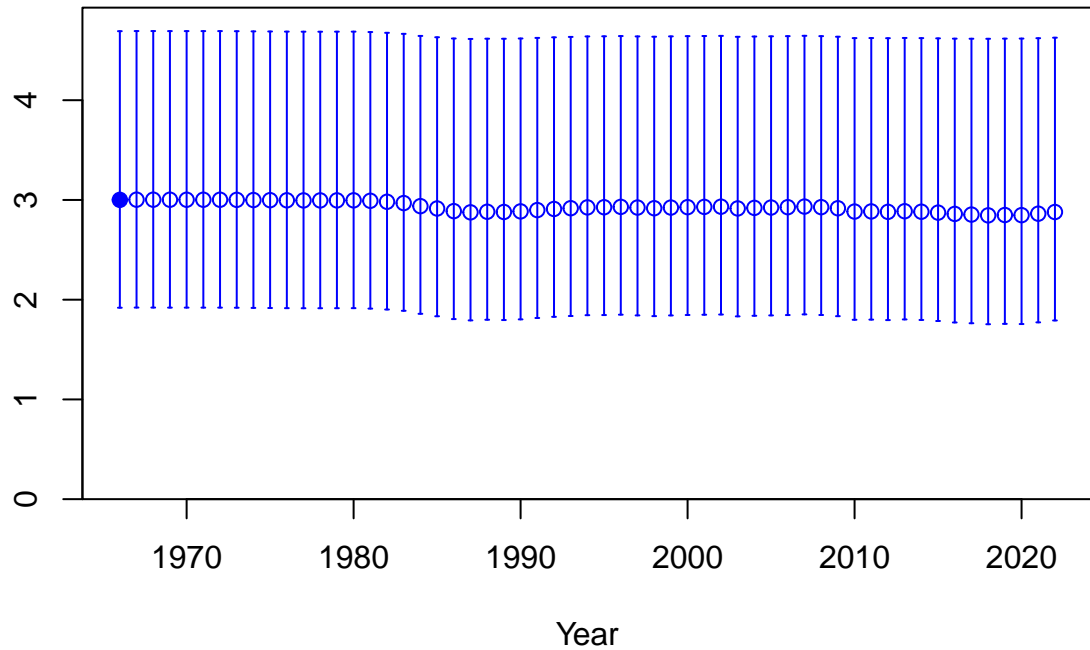








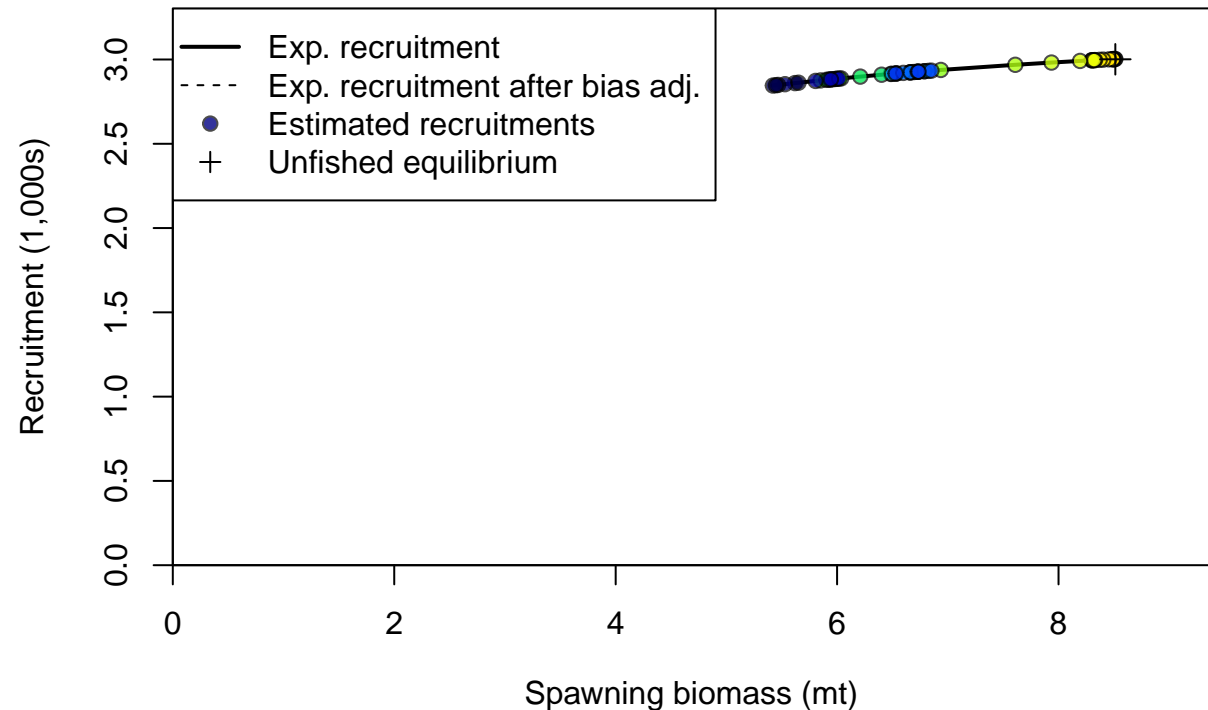
Age-0 recruits (1,000s)



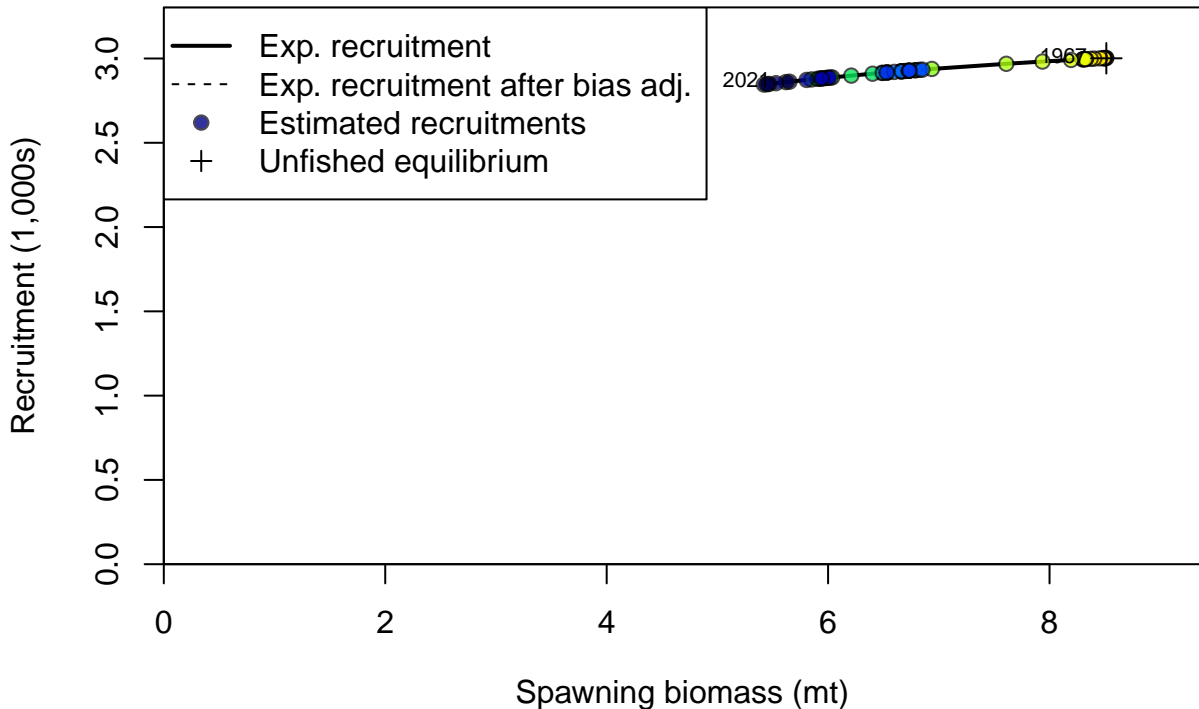
Summary Fishing Mortality

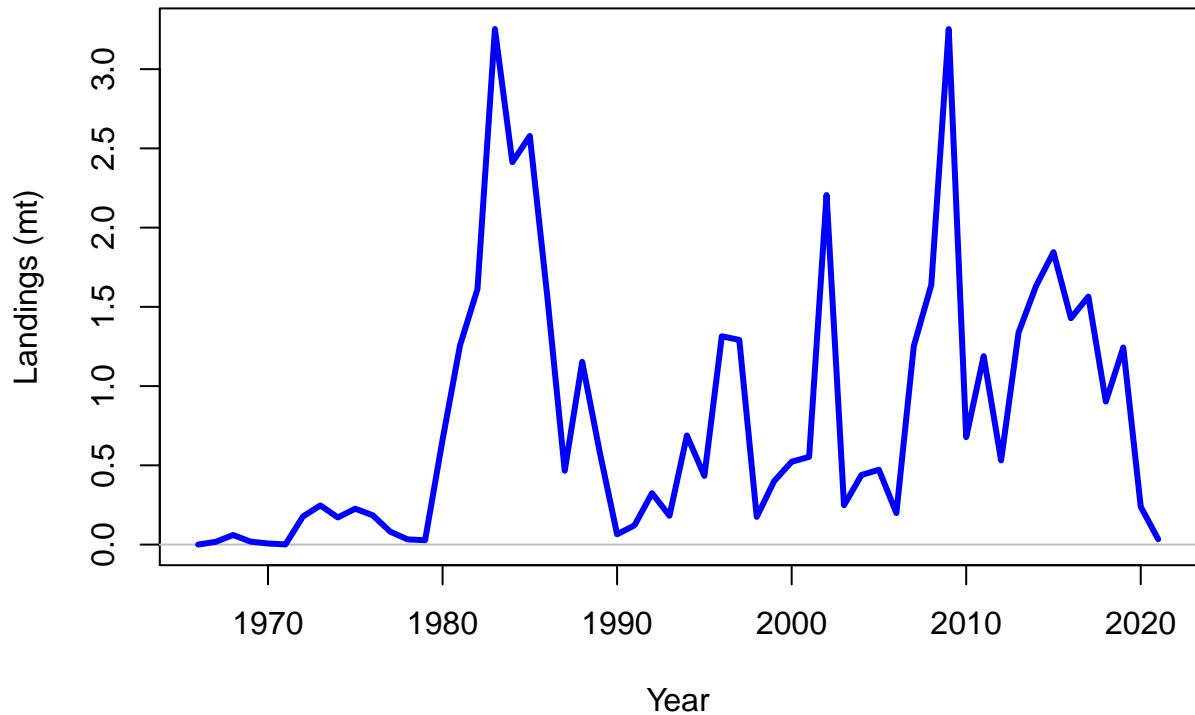


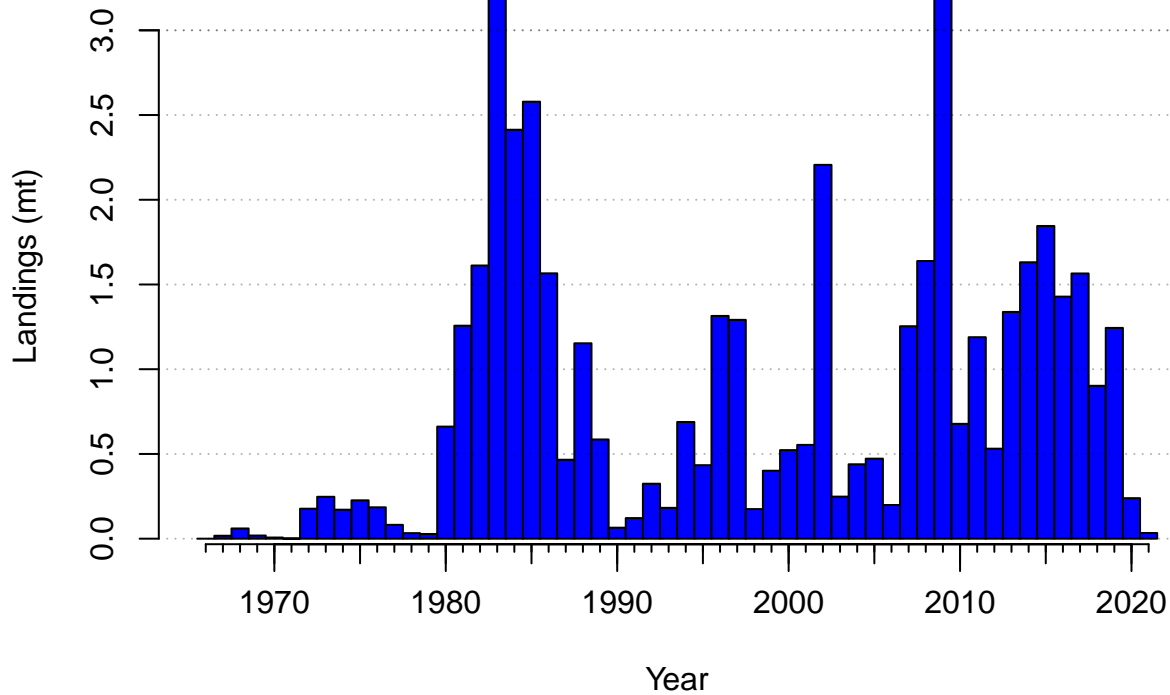


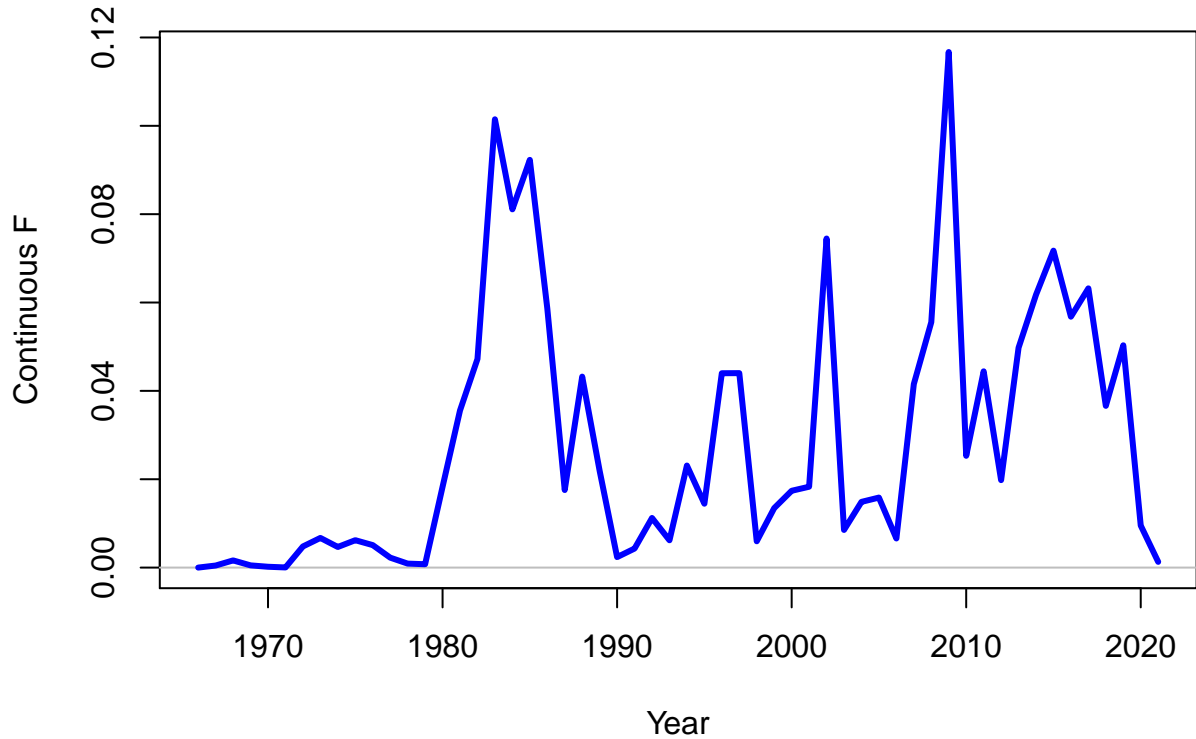












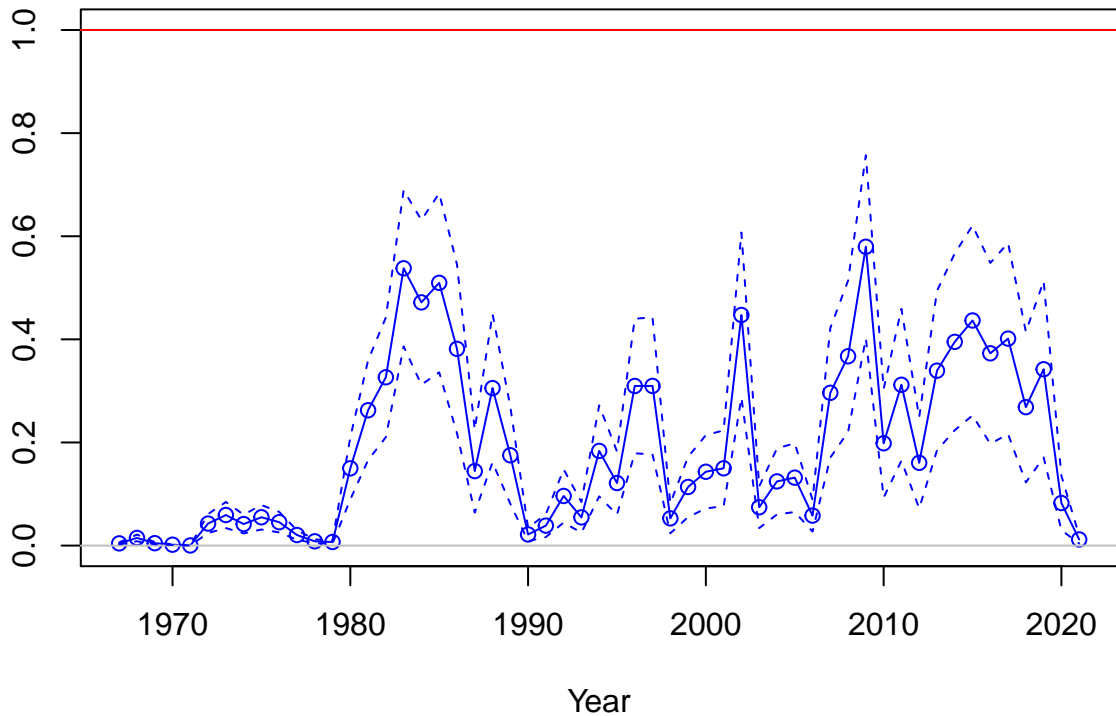
SPR



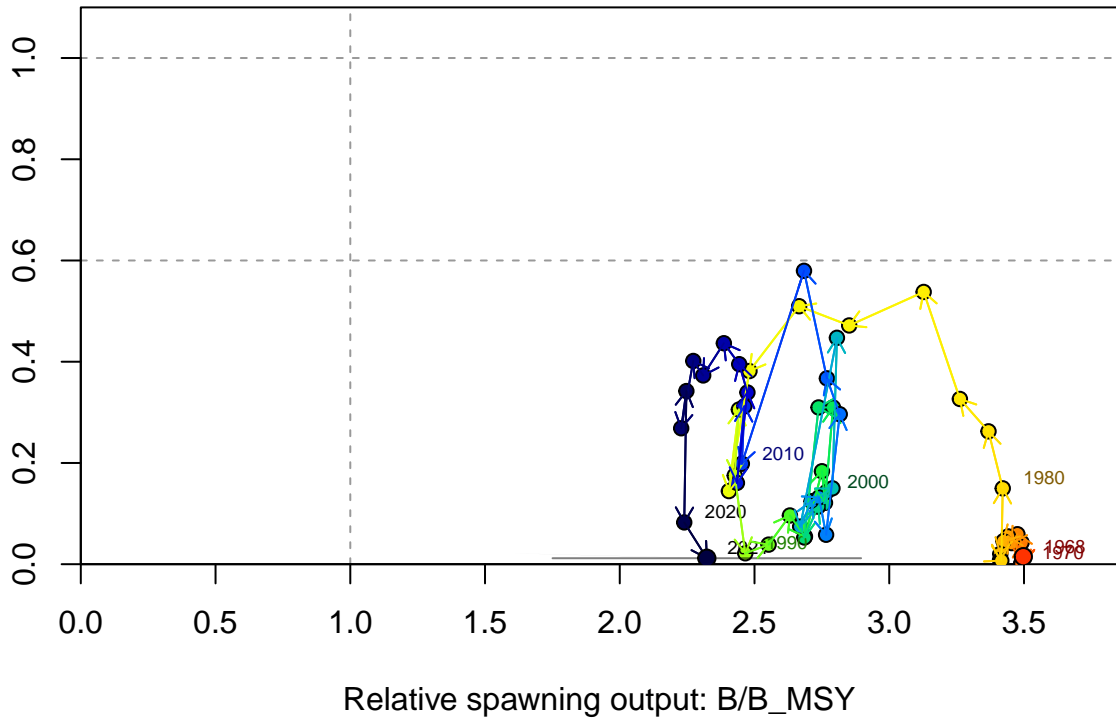
1-SPR



Fishing intensity: 1-SPR



Fishing intensity: 1-SPR



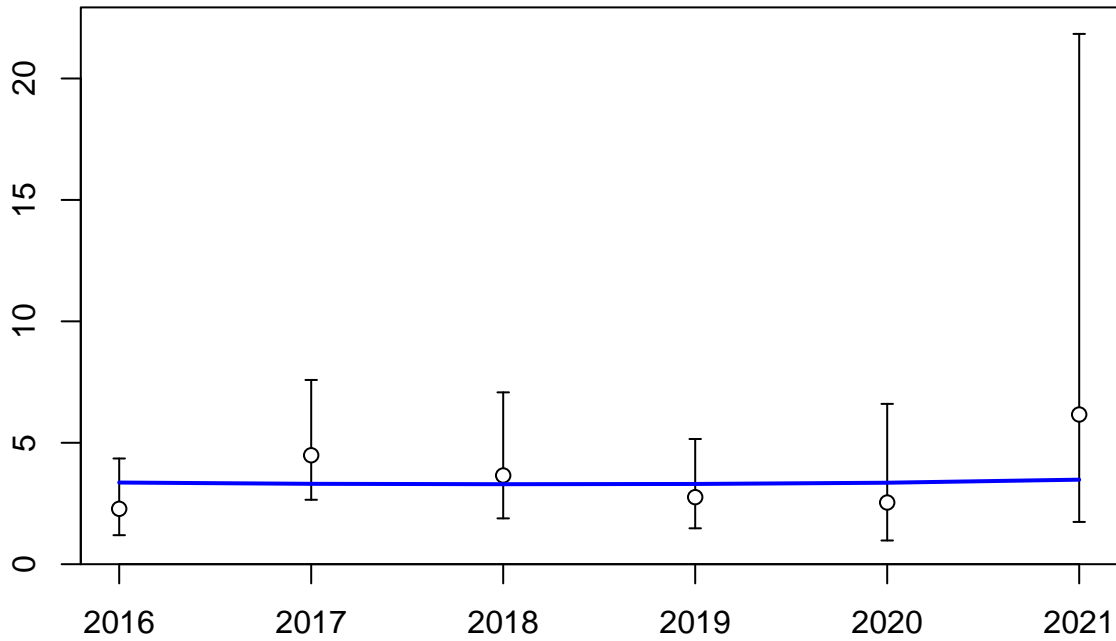


Index



Year

Index



Year



Log index

3.0  
2.5  
2.0  
1.5  
1.0  
0.5  
0.0

2016

2017

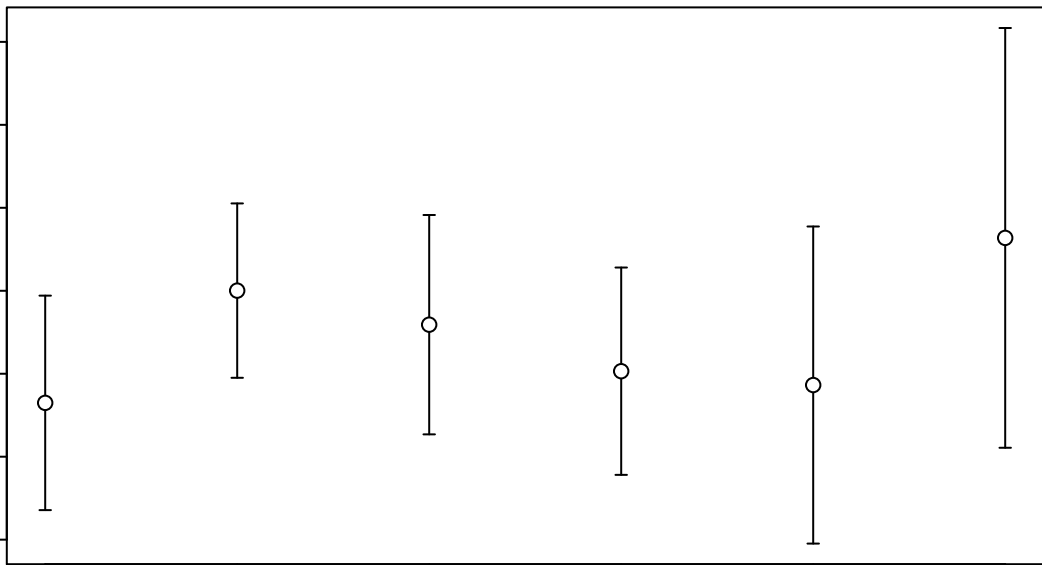
2018

2019

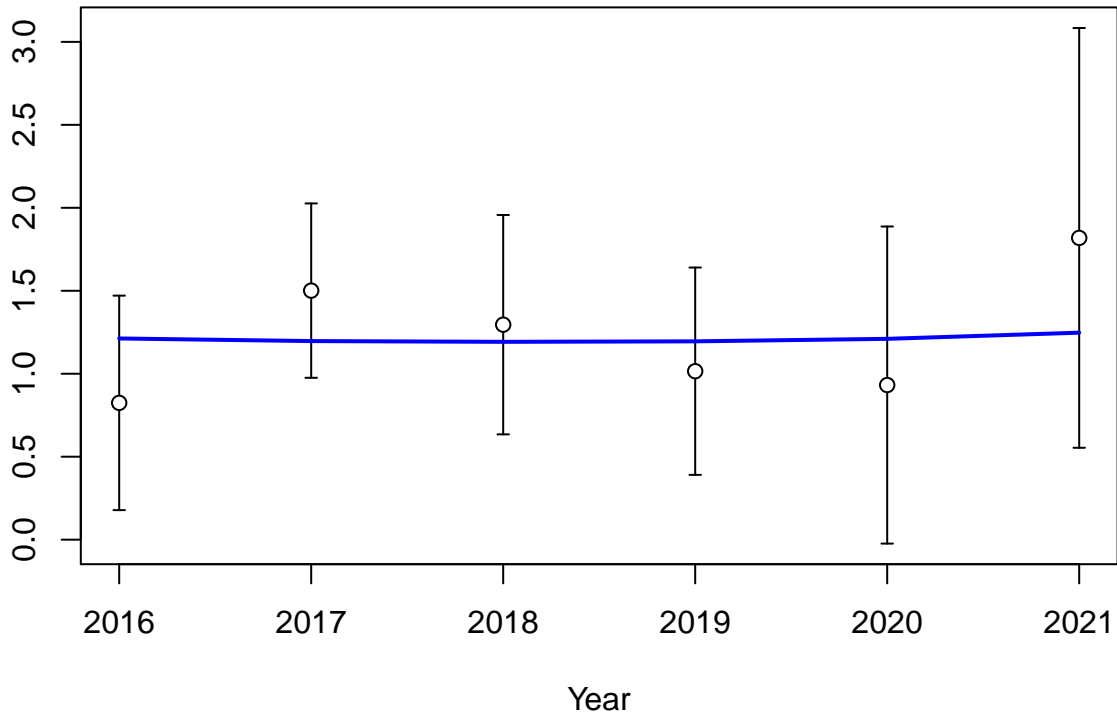
2020

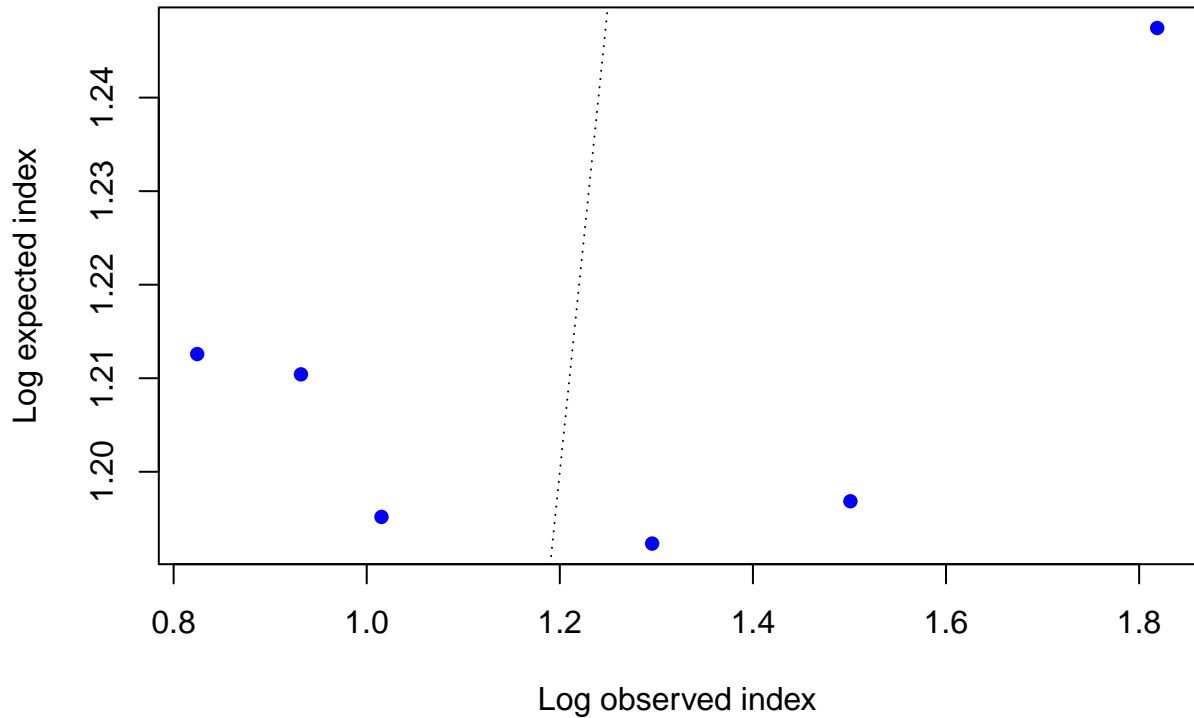
2021

Year



Log index







Deviation

0.4  
0.2  
0.0  
-0.2  
-0.4

2016

2017

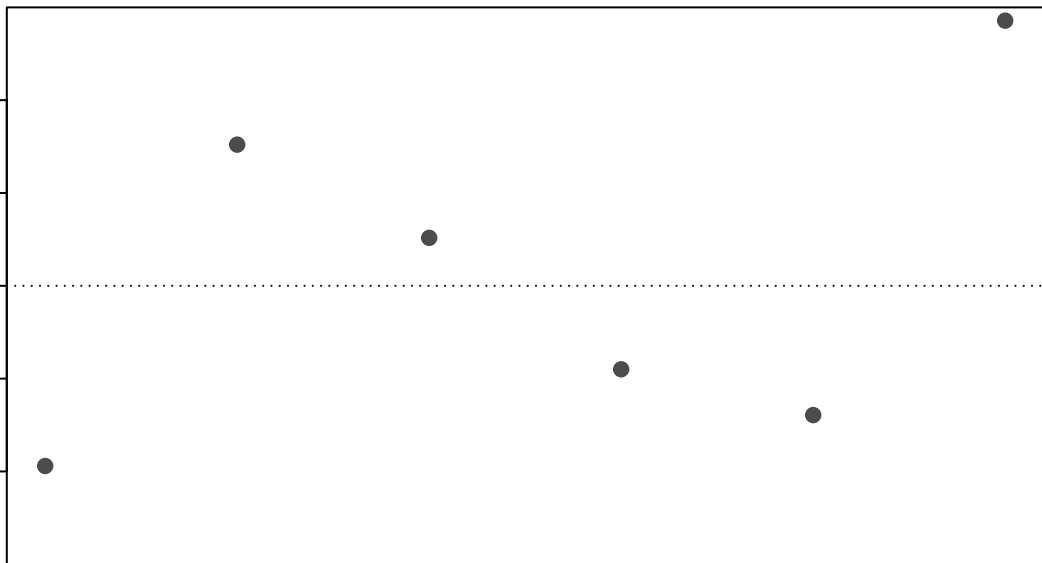
2018

2019

2020

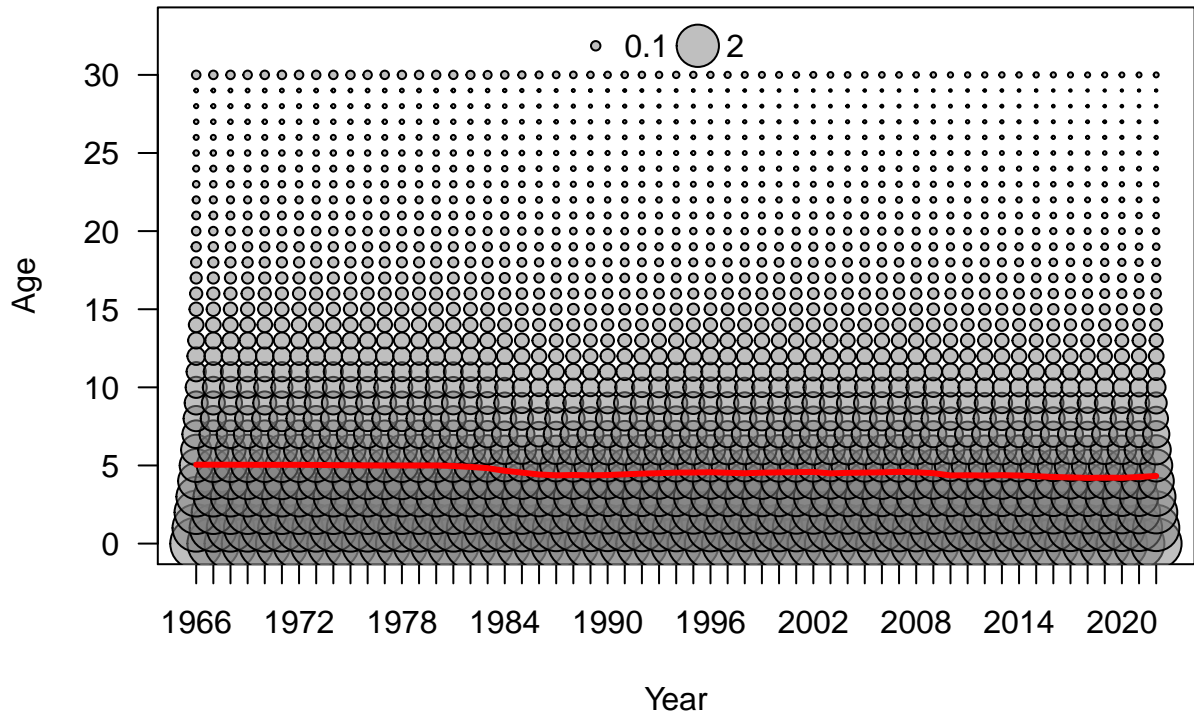
2021

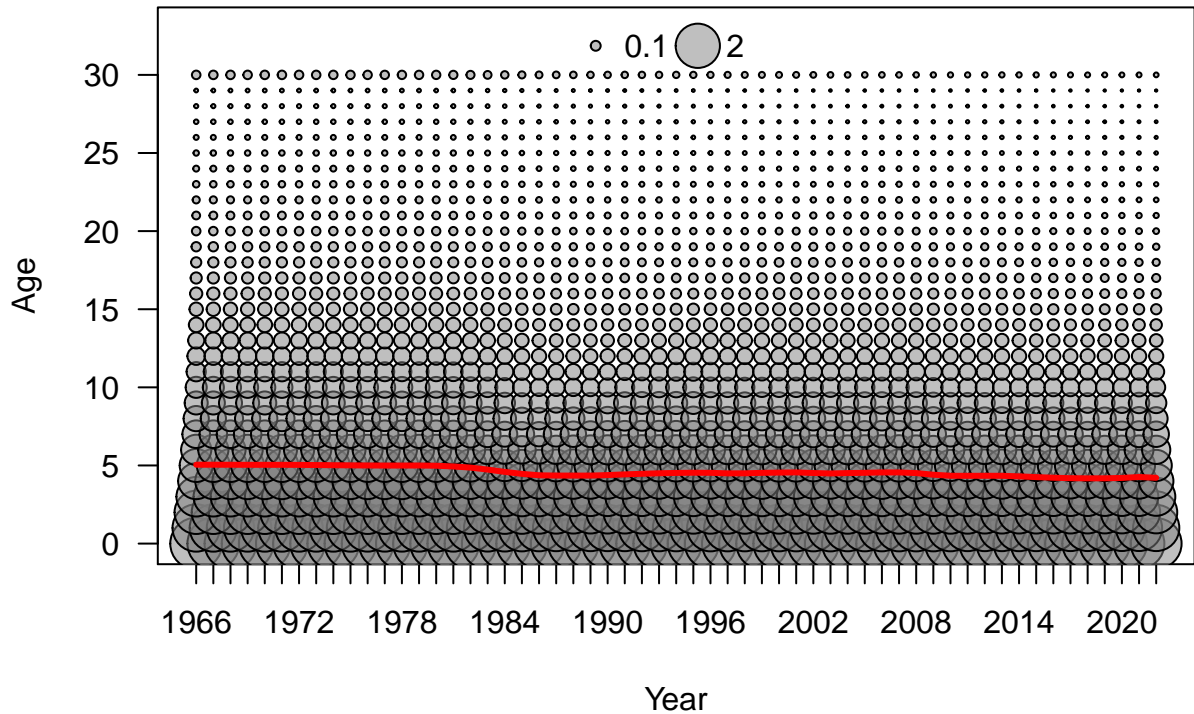
Year



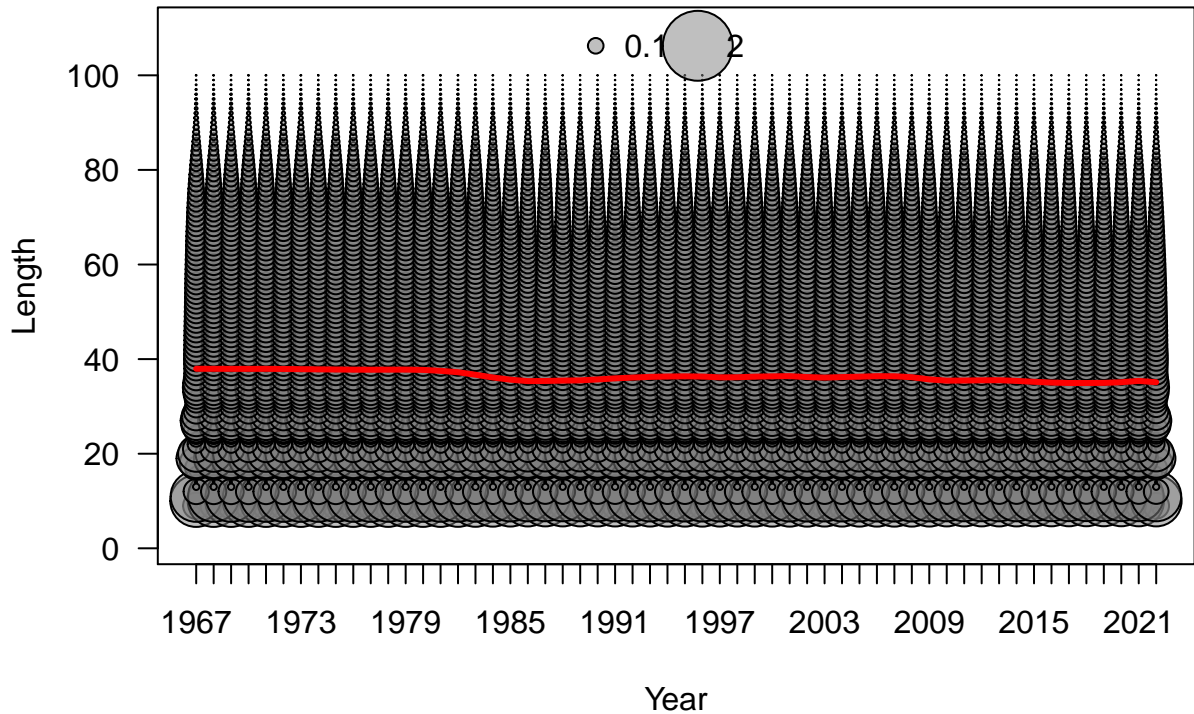










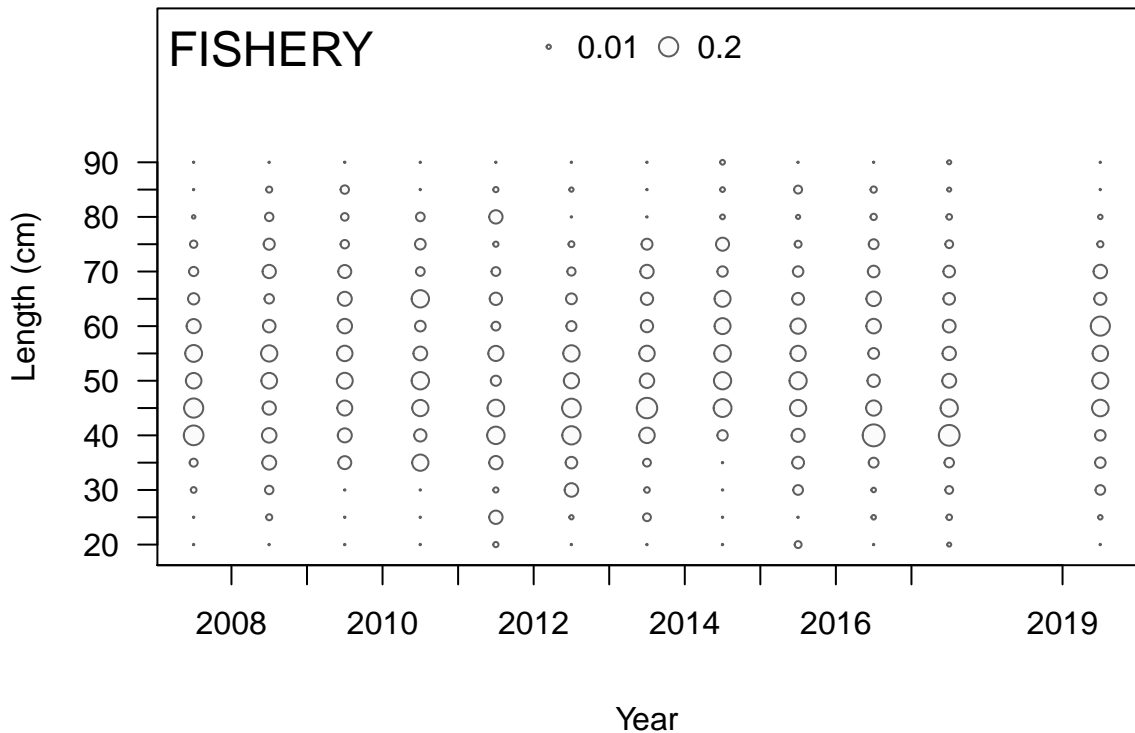




# FISHERY

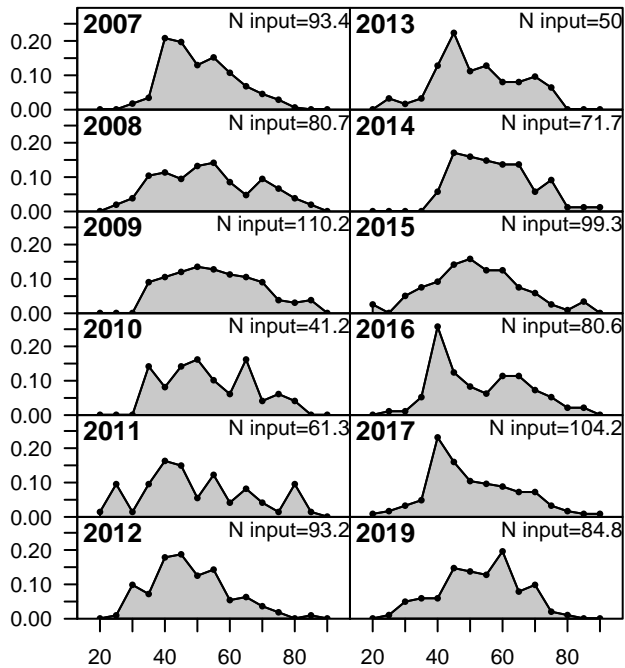
Sum of N input=970.8







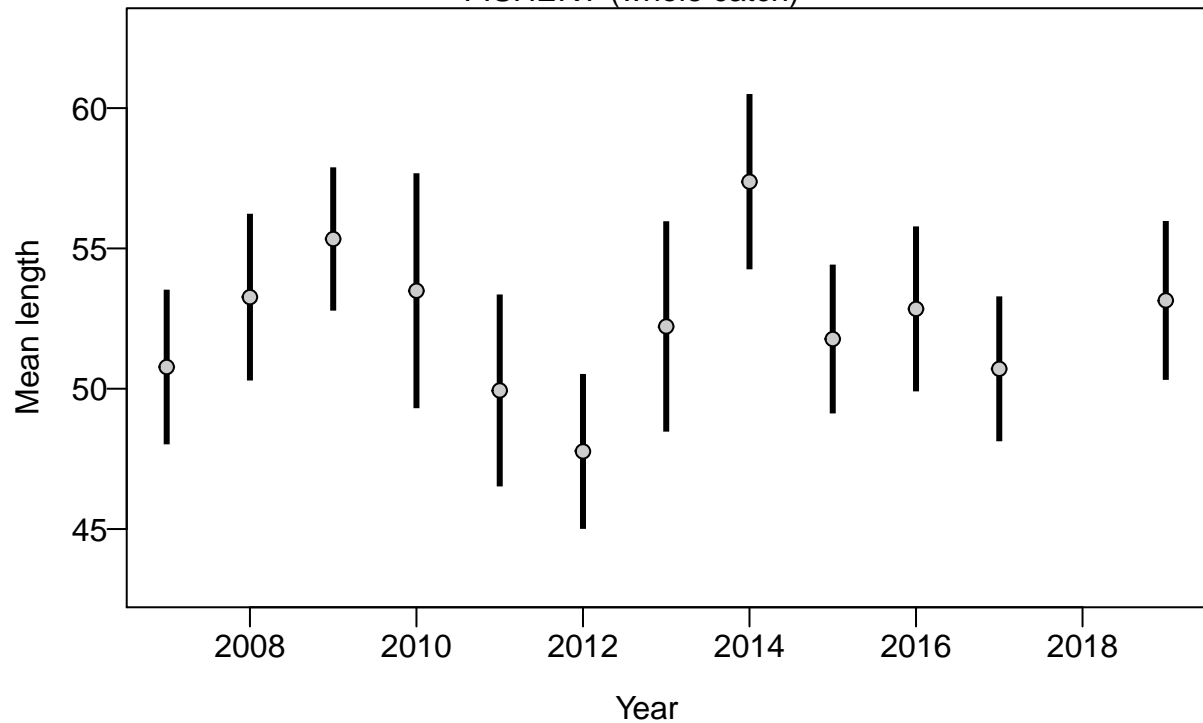
Proportion



Length (cm)



FISHERY (whole catch)



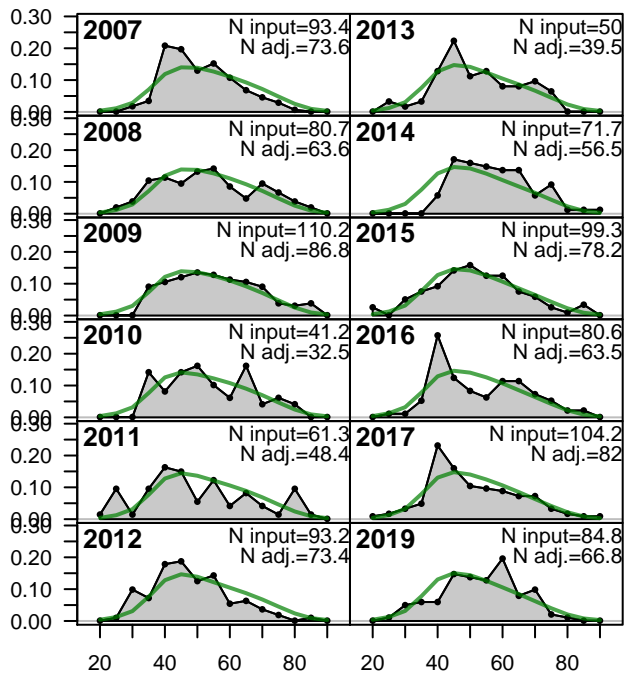
# FISHERY

Sum of N input=970.8  
Sum of N adj.=765

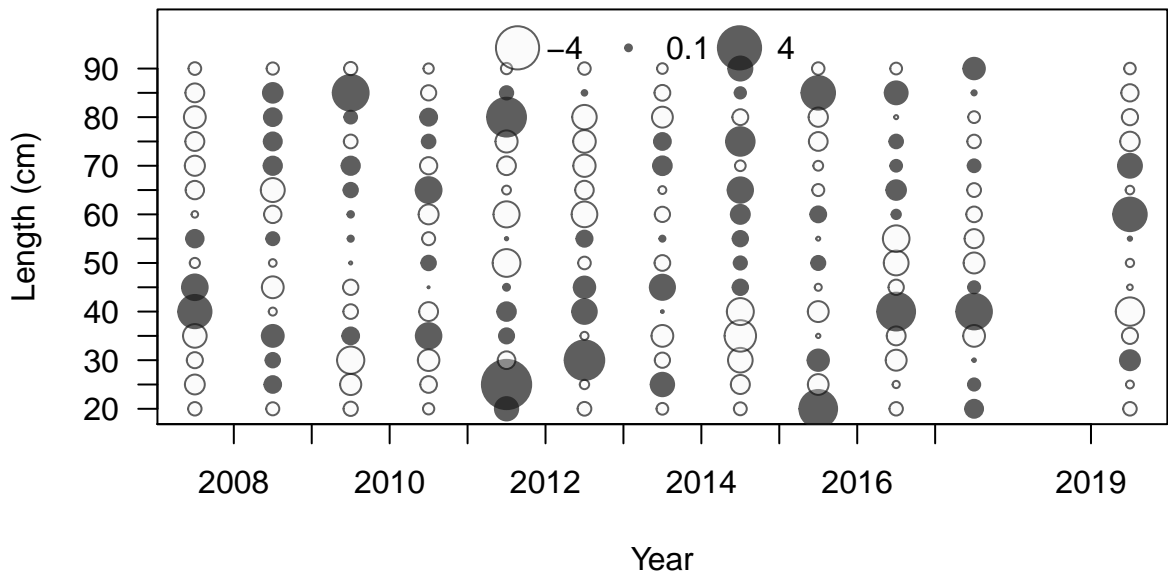




Proportion



Length (cm)



FISHERY (whole catch)



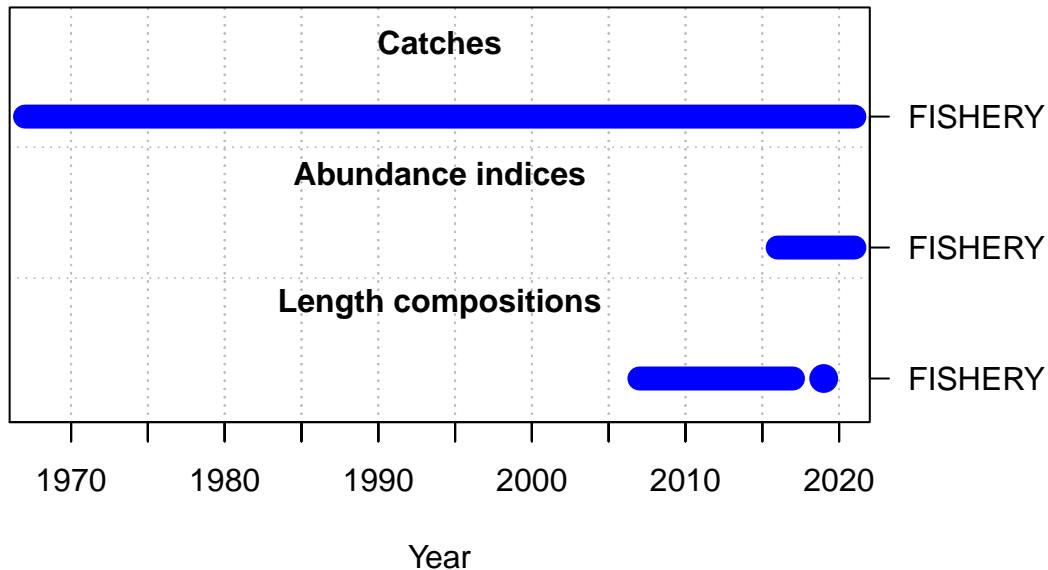


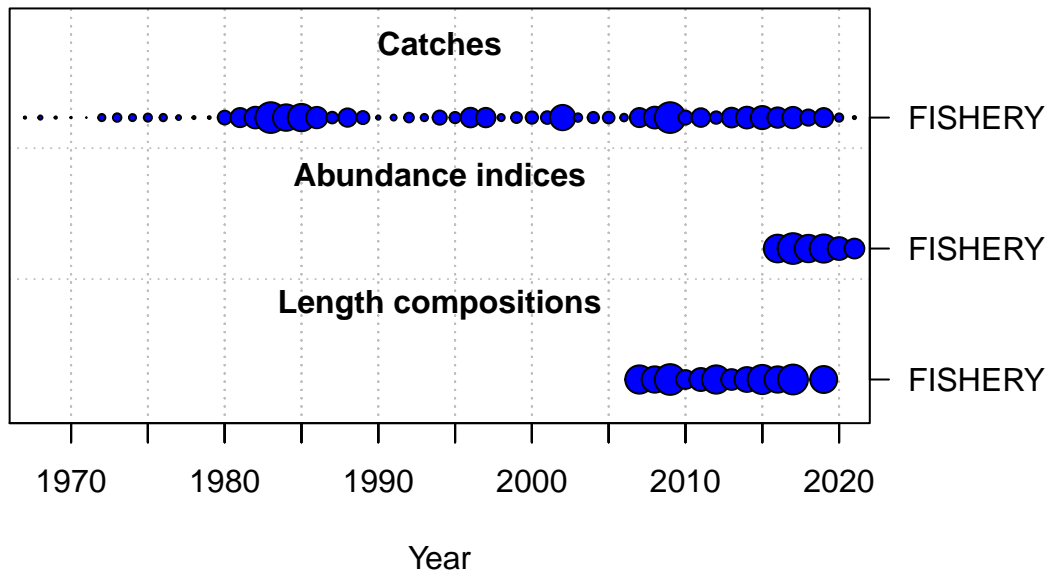




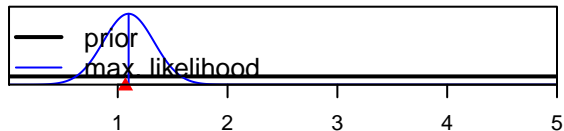




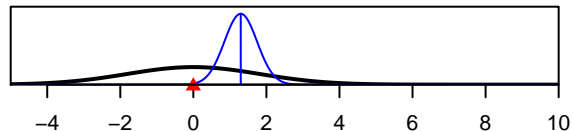




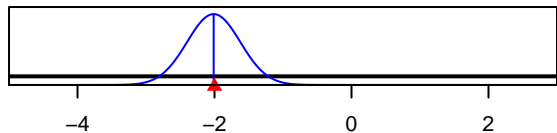
SR\_LN(R0)



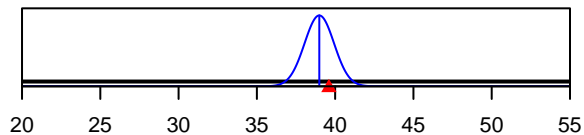
ln(DM\_theta)\_1



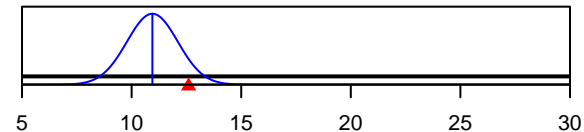
LnQ\_base\_FISHERY(1)



Size\_inflection\_FISHERY(1)



Size\_95%width\_FISHERY(1)



Parameter value