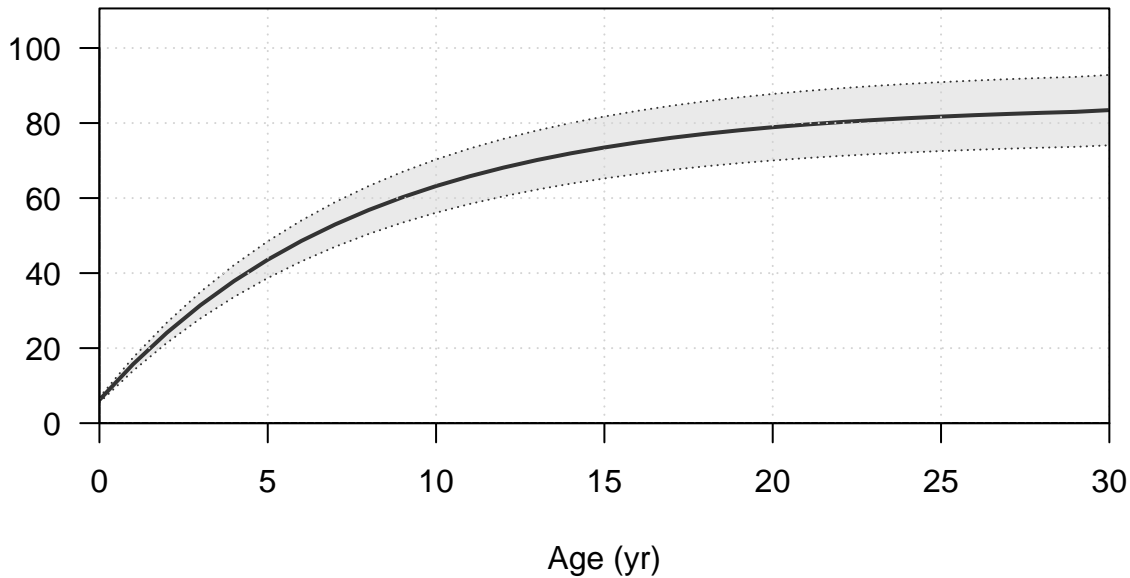
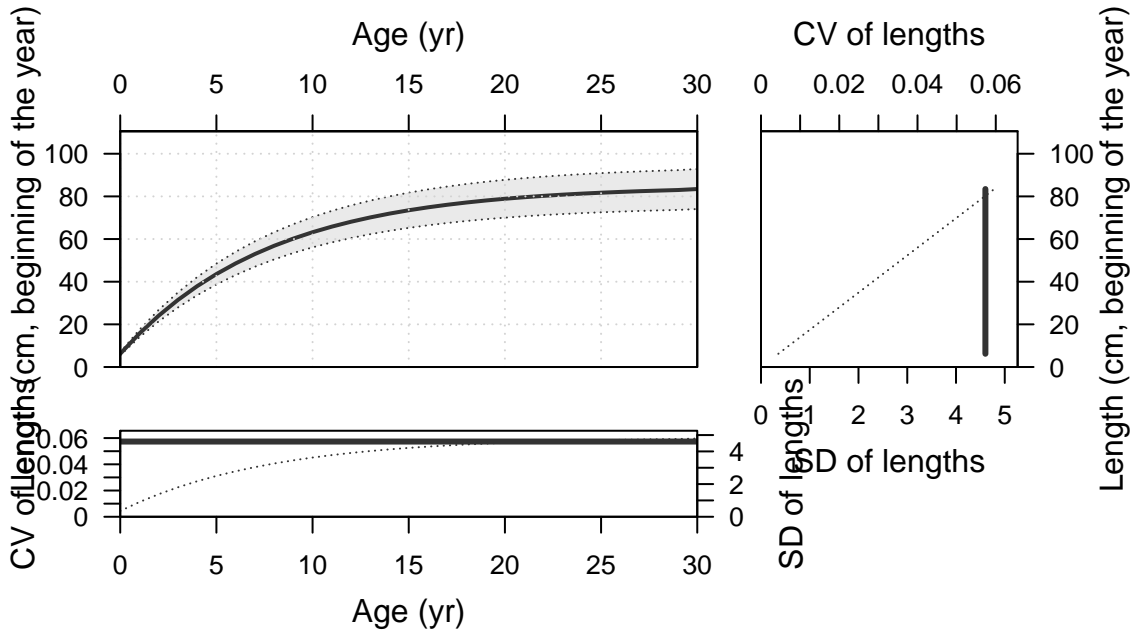
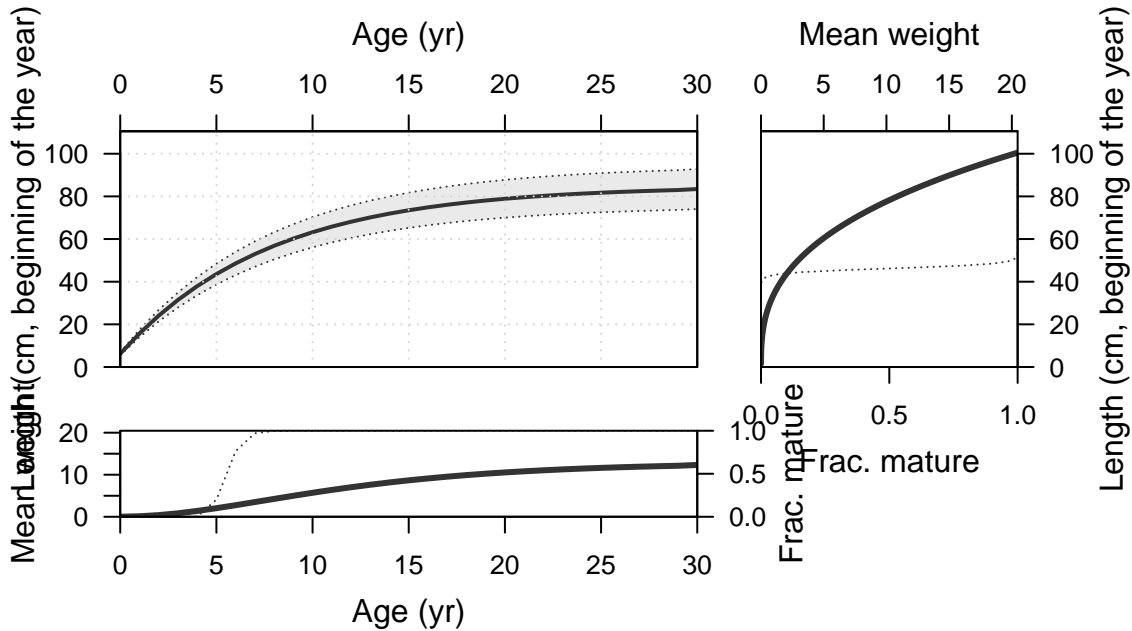


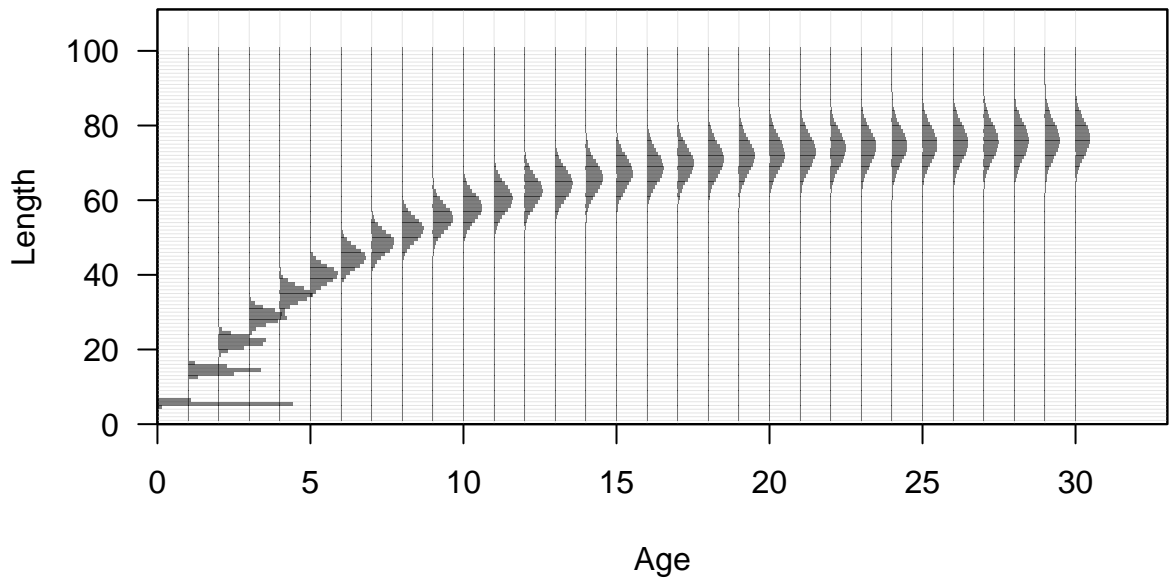
Plots created using the 'r4ss' package in R
Stock Synthesis version: 3.30.19.0
StartTime: Sat Feb 18 11:07:17 2023
Data_File: data.ss
Control_File: control.ss

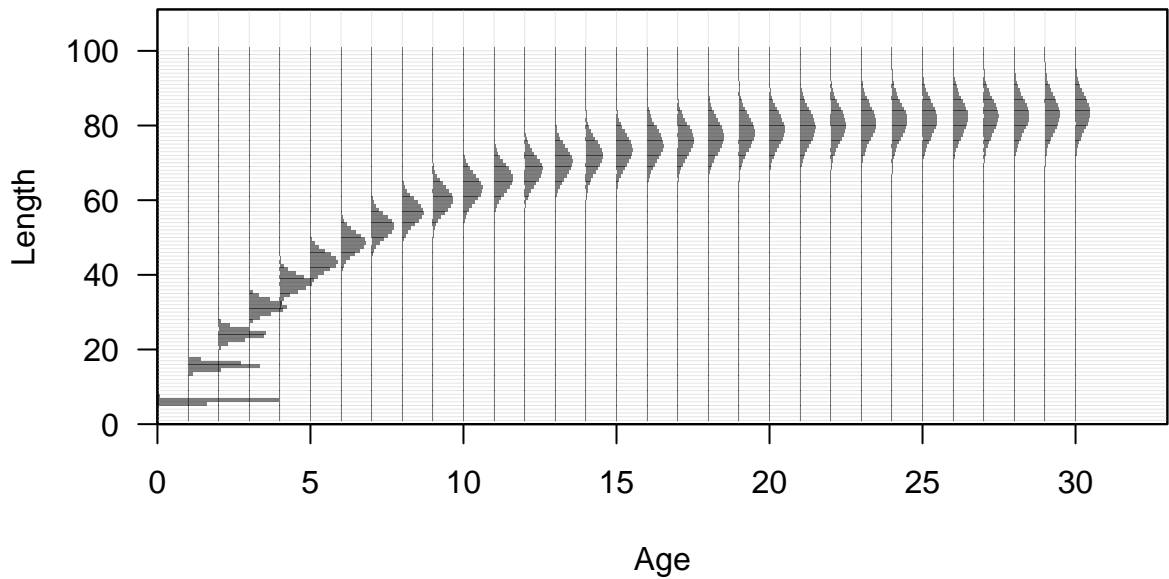
Length (cm, beginning of the year)

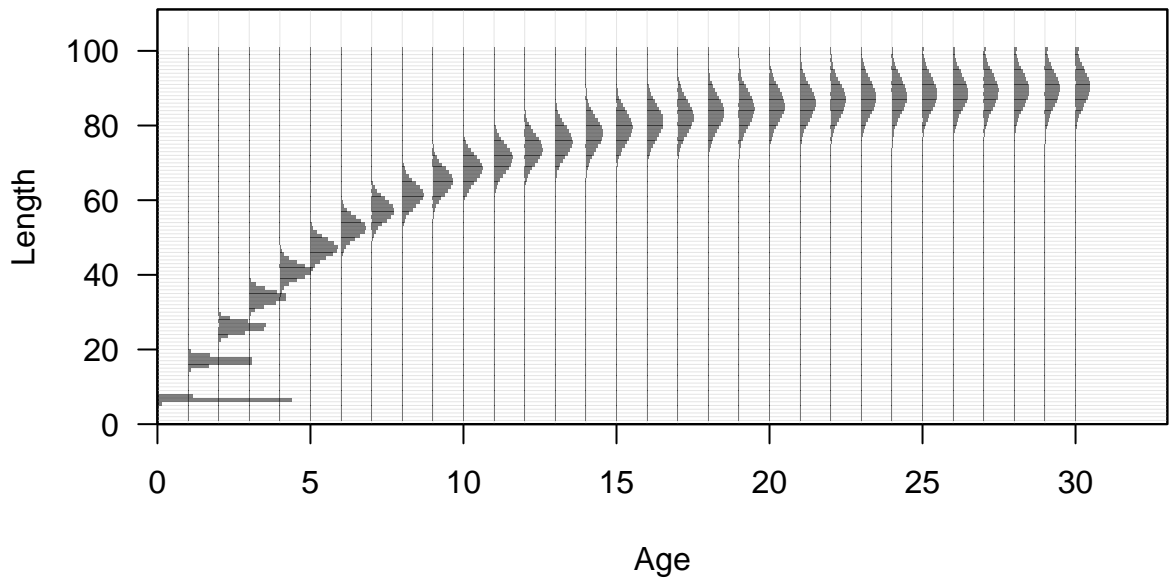


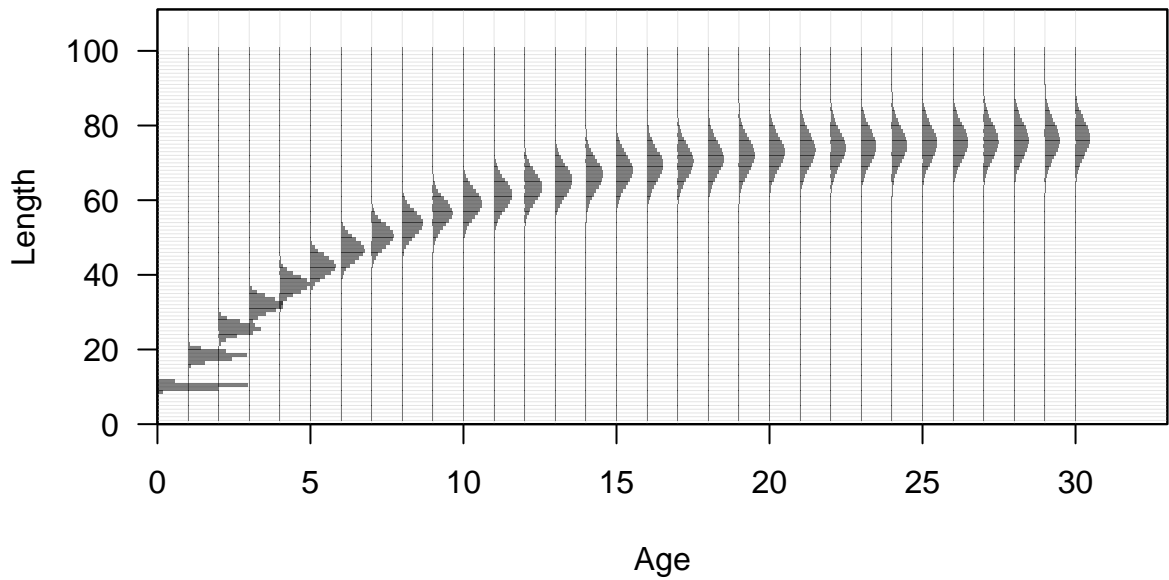


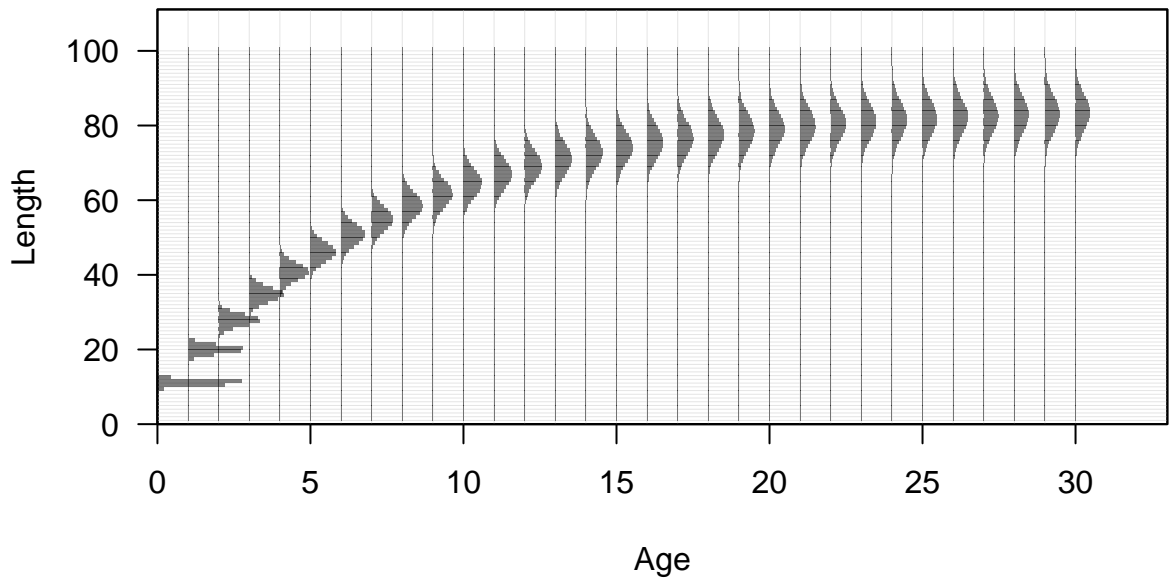


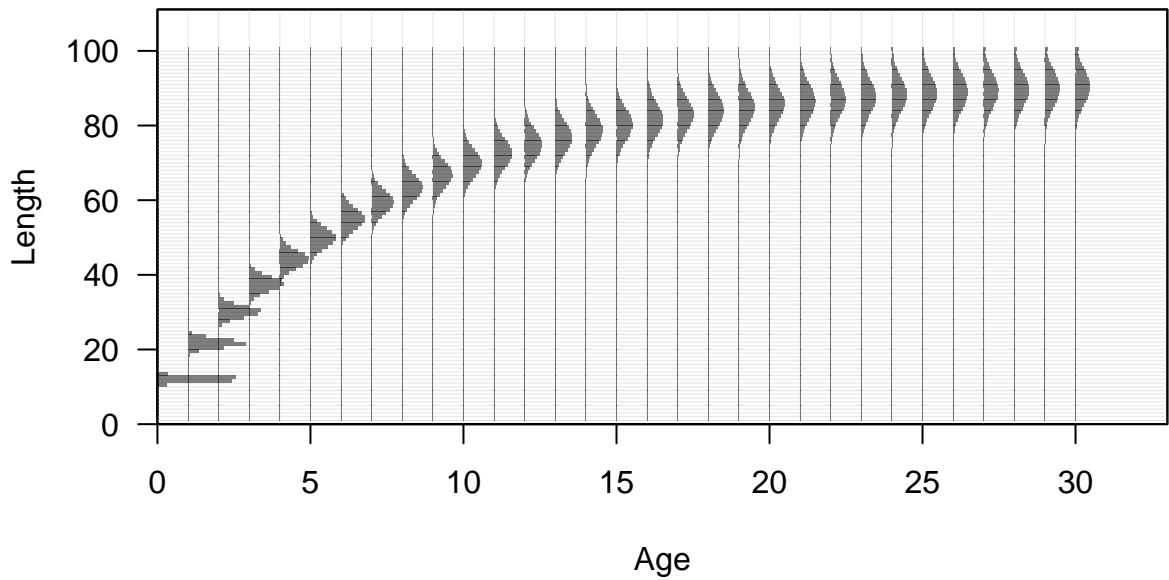




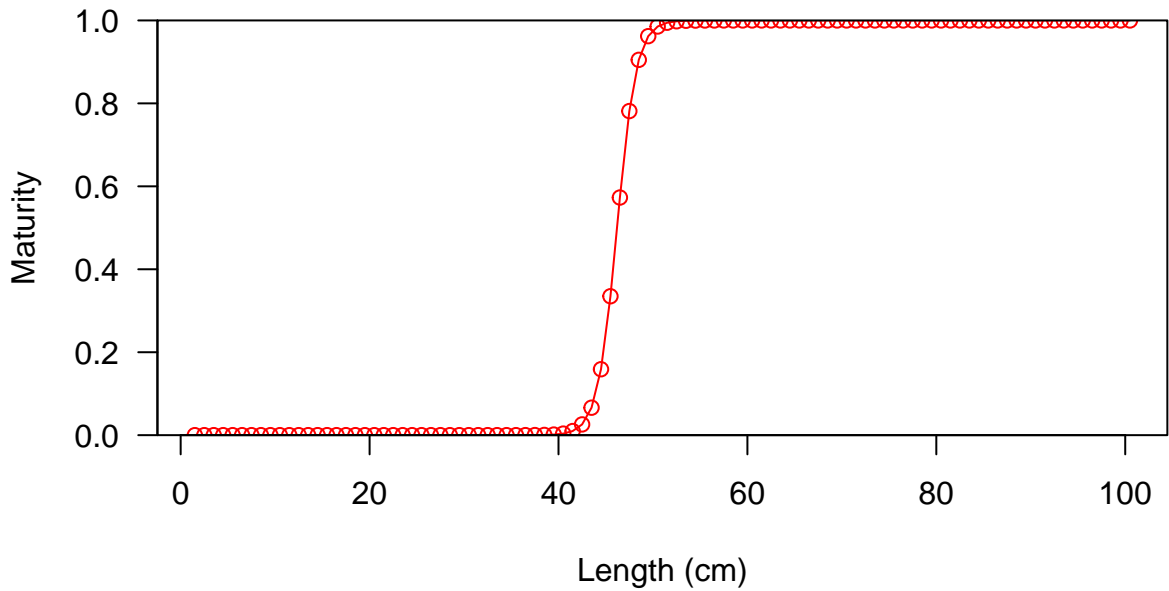


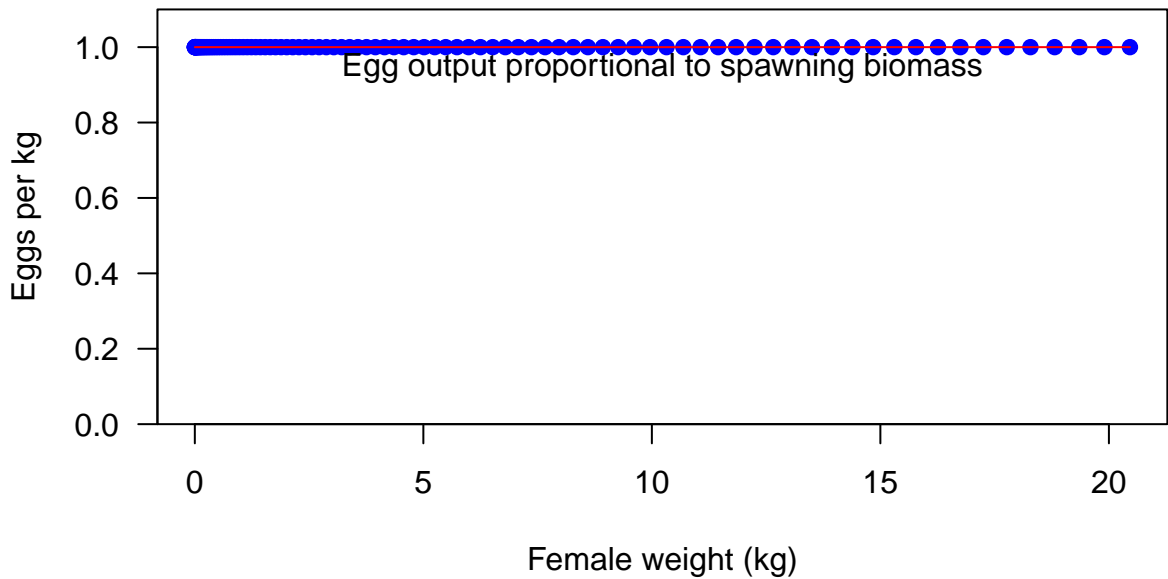




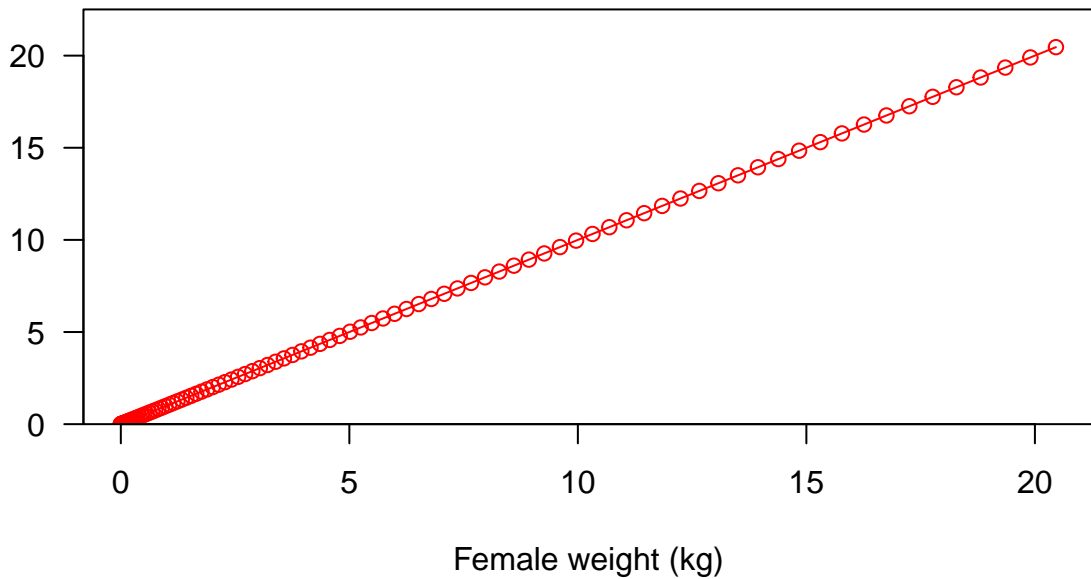








Fecundity



Fecundity

20

15

10

5

0

0

20

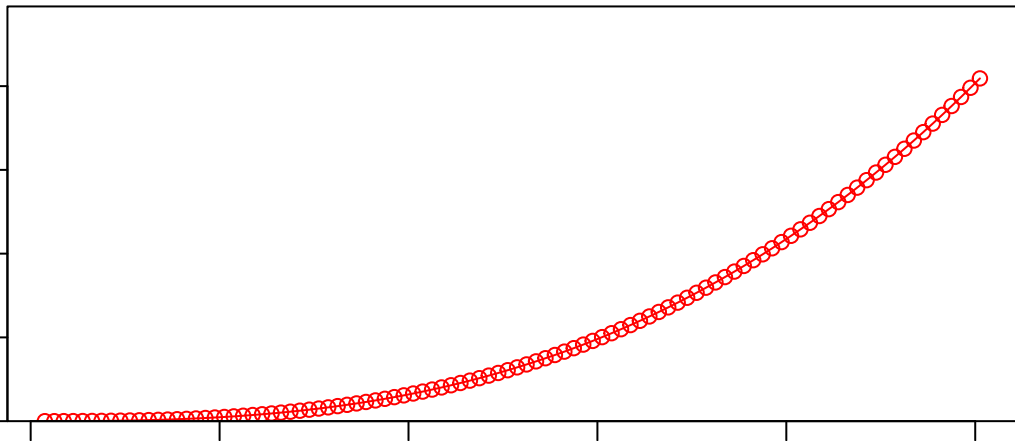
40

60

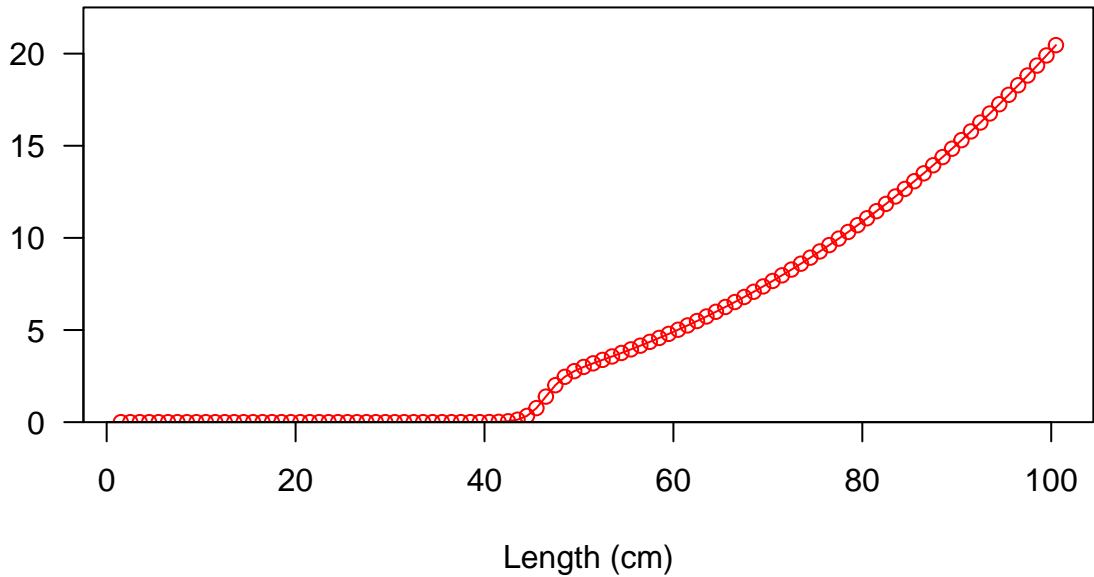
80

100

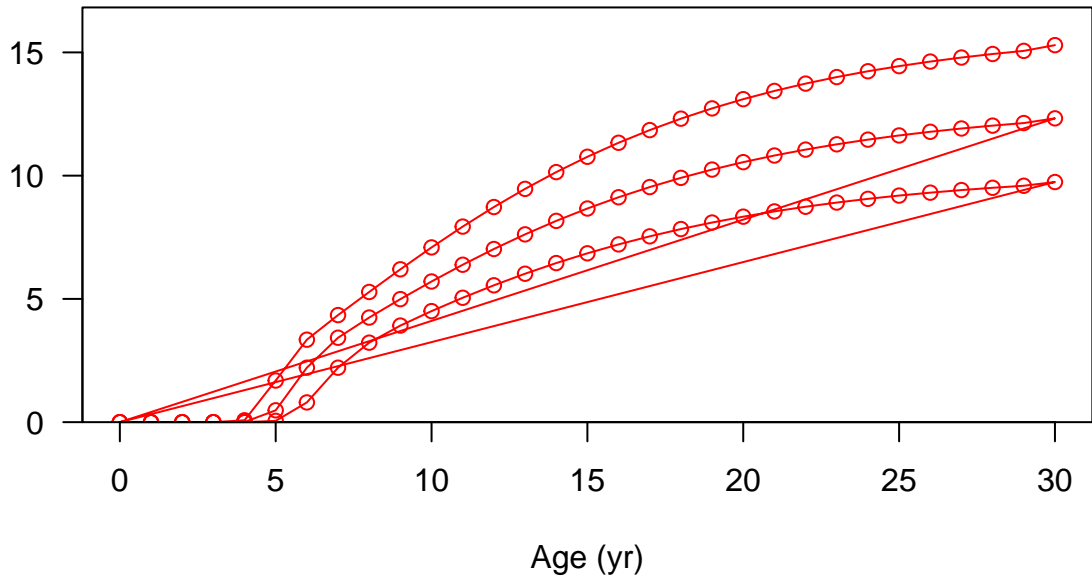
Female length (cm)



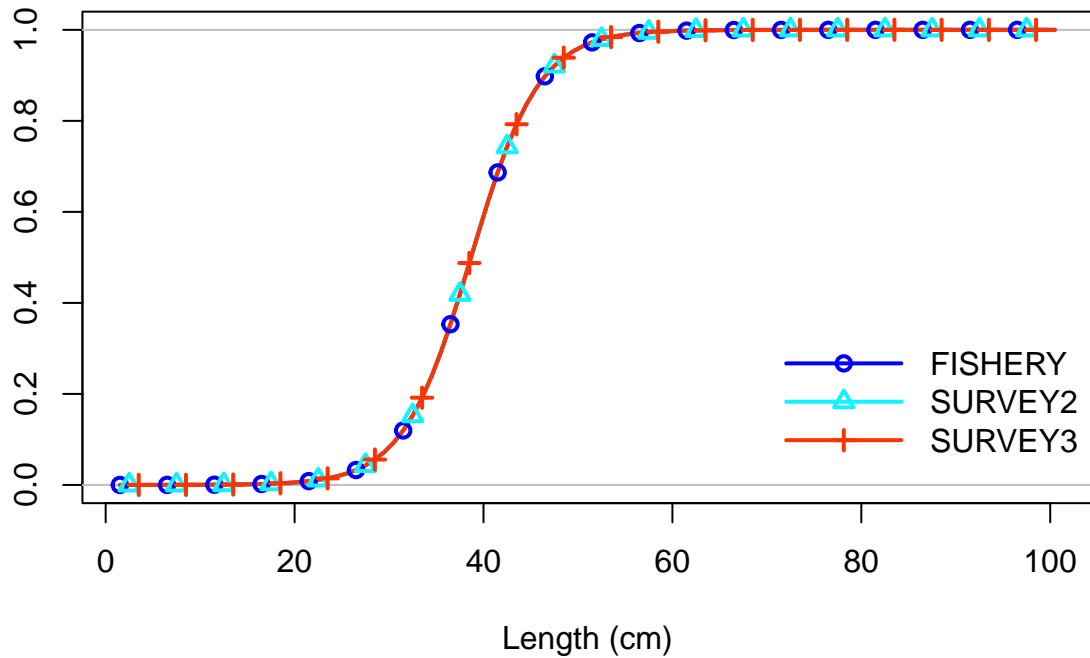
Spawning output



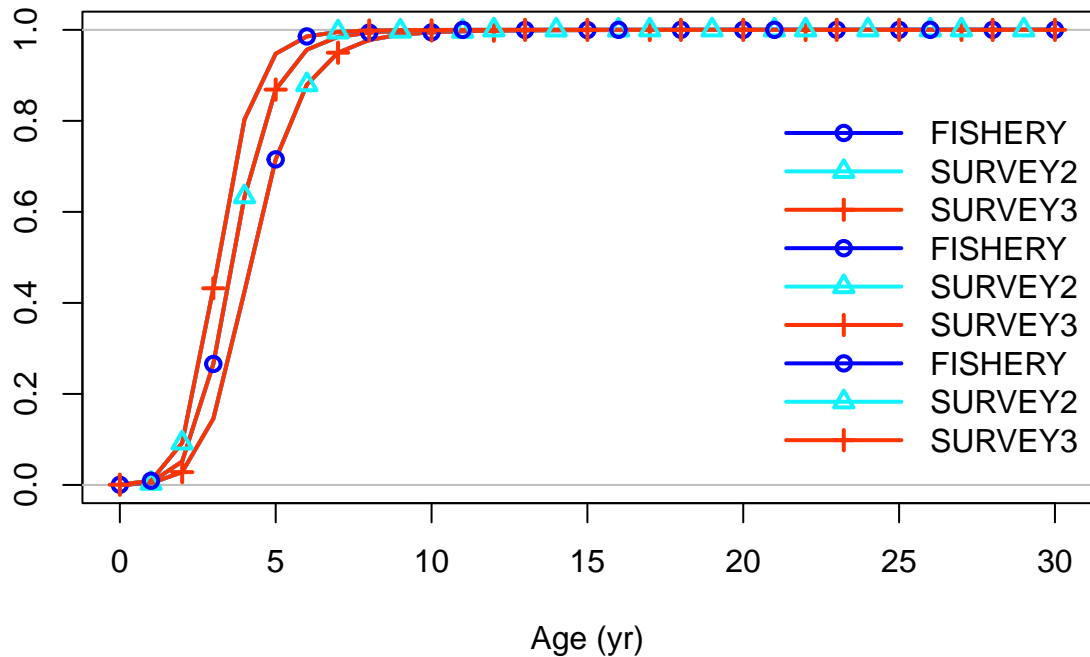
Spawning output



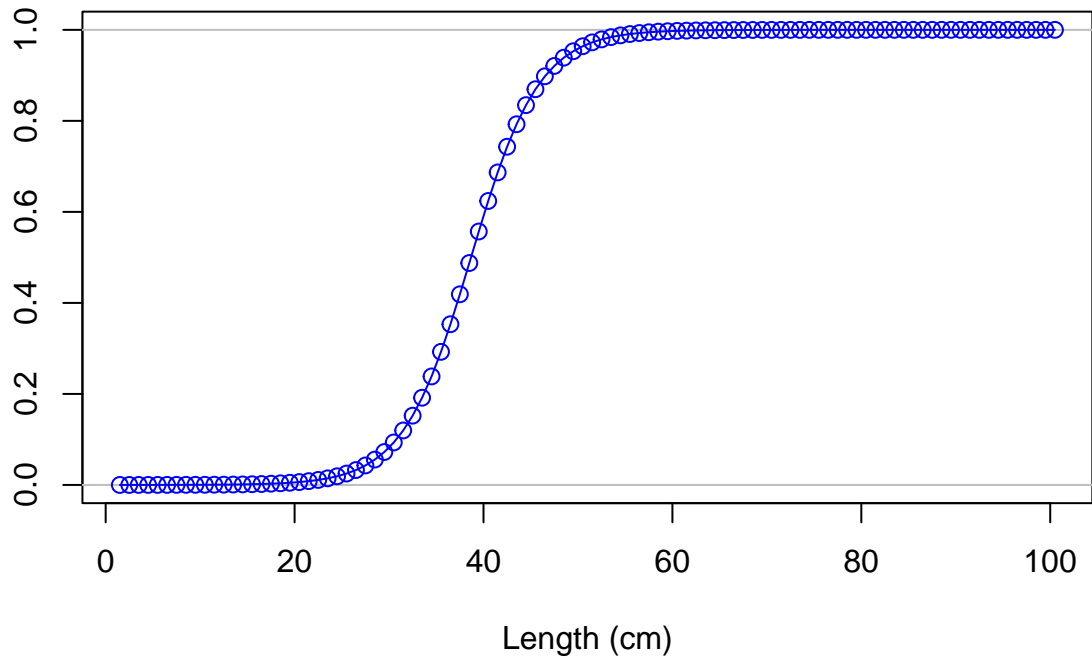
Selectivity



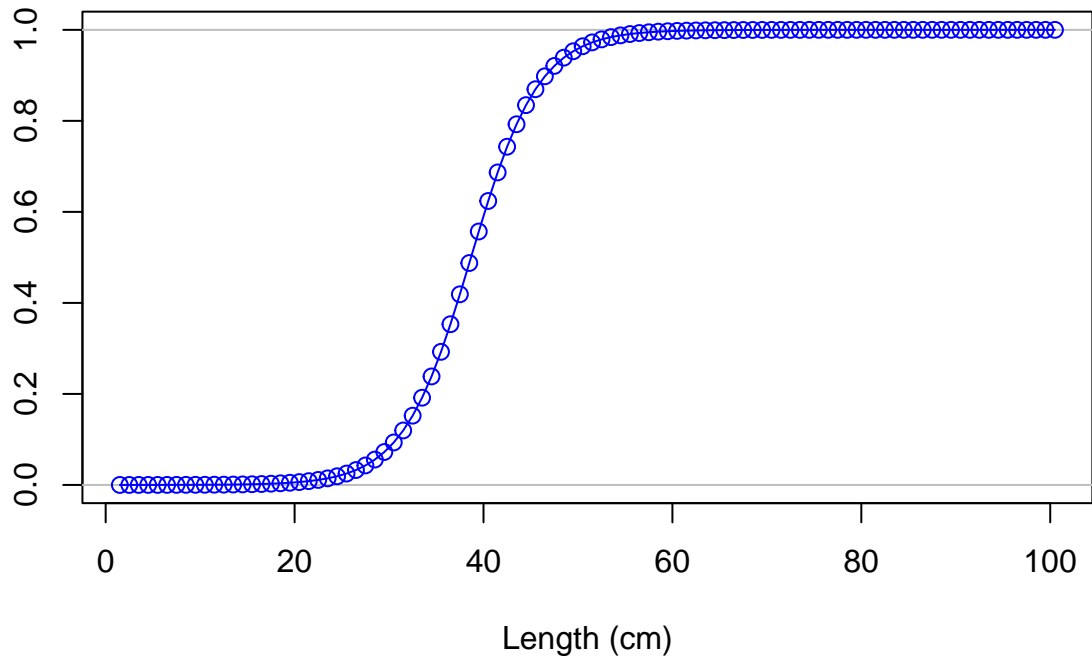
Selectivity



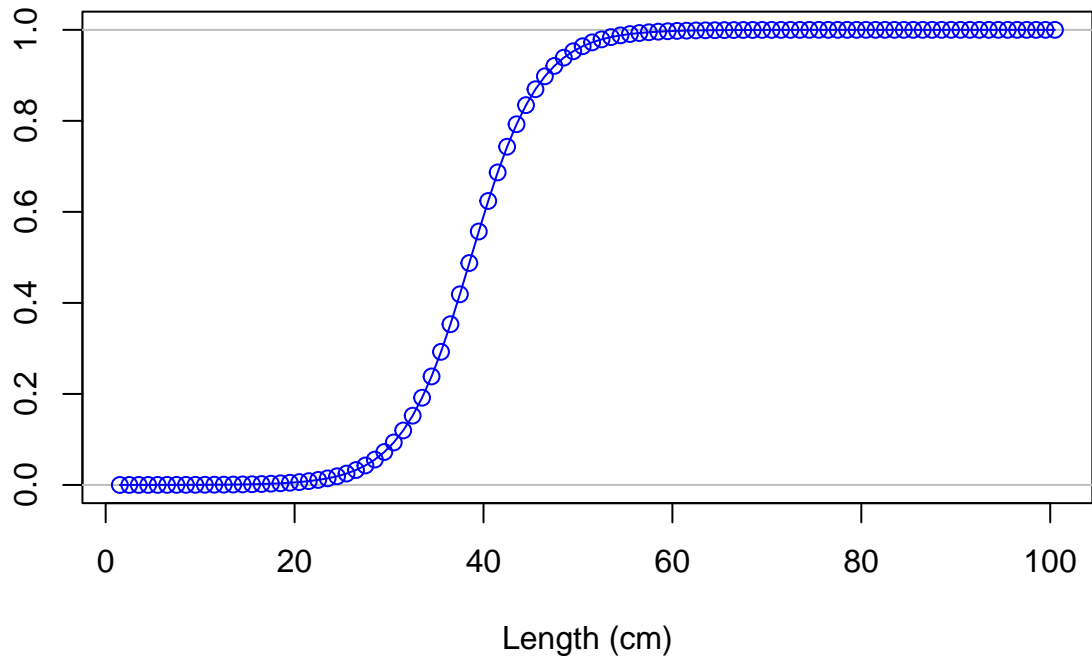
Selectivity

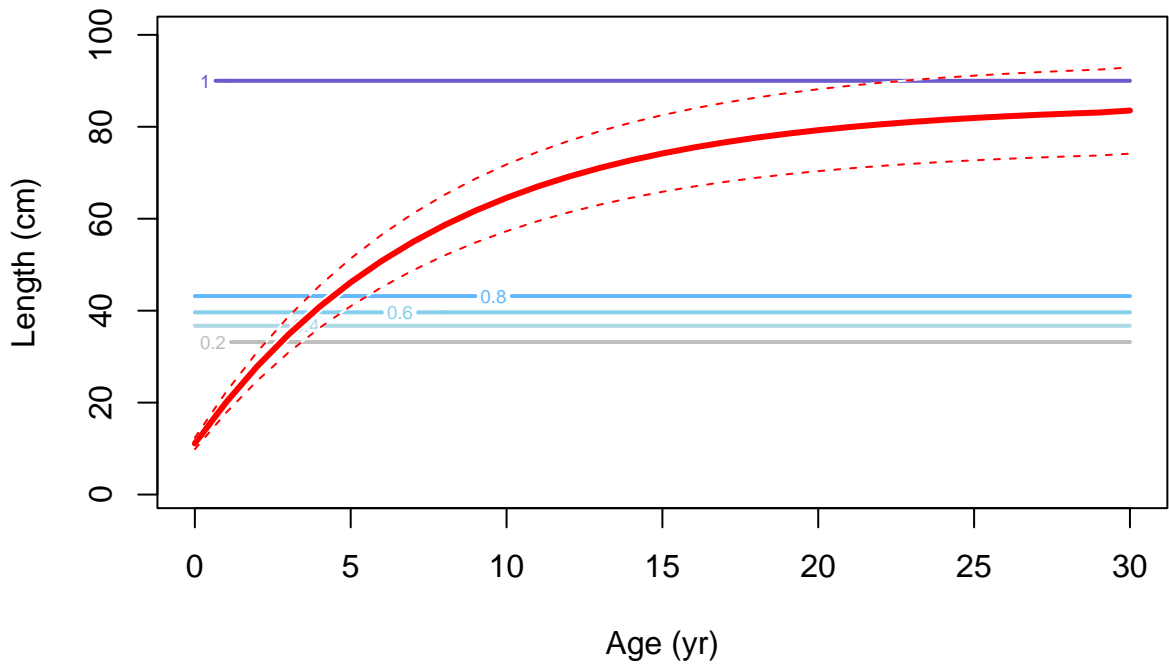


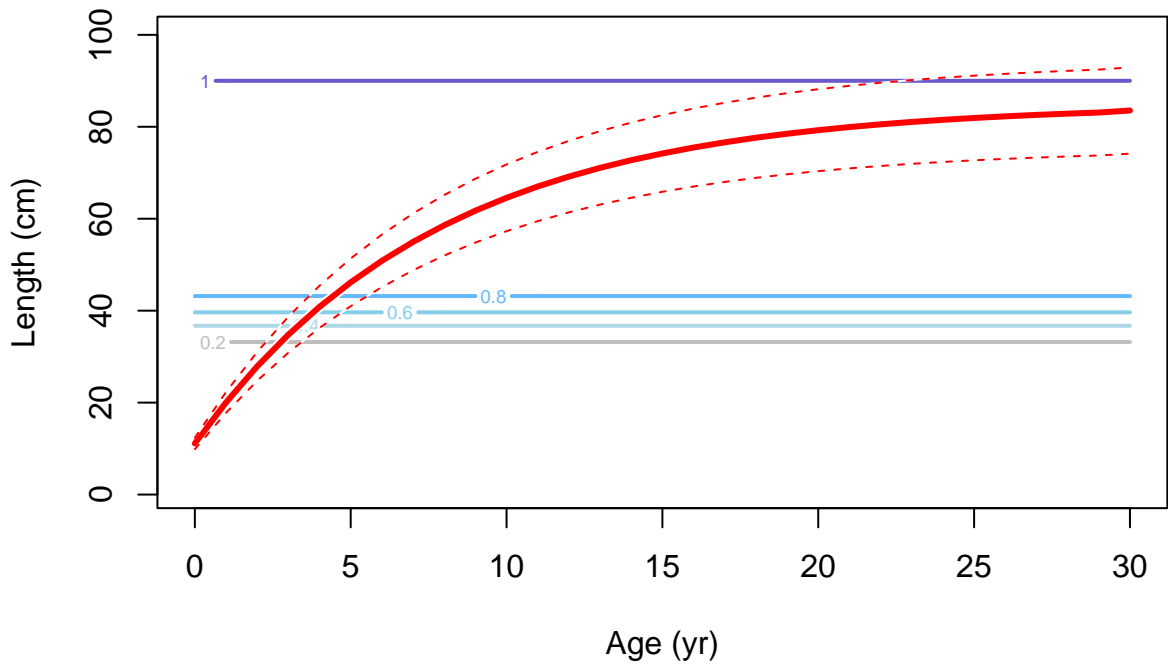
Selectivity

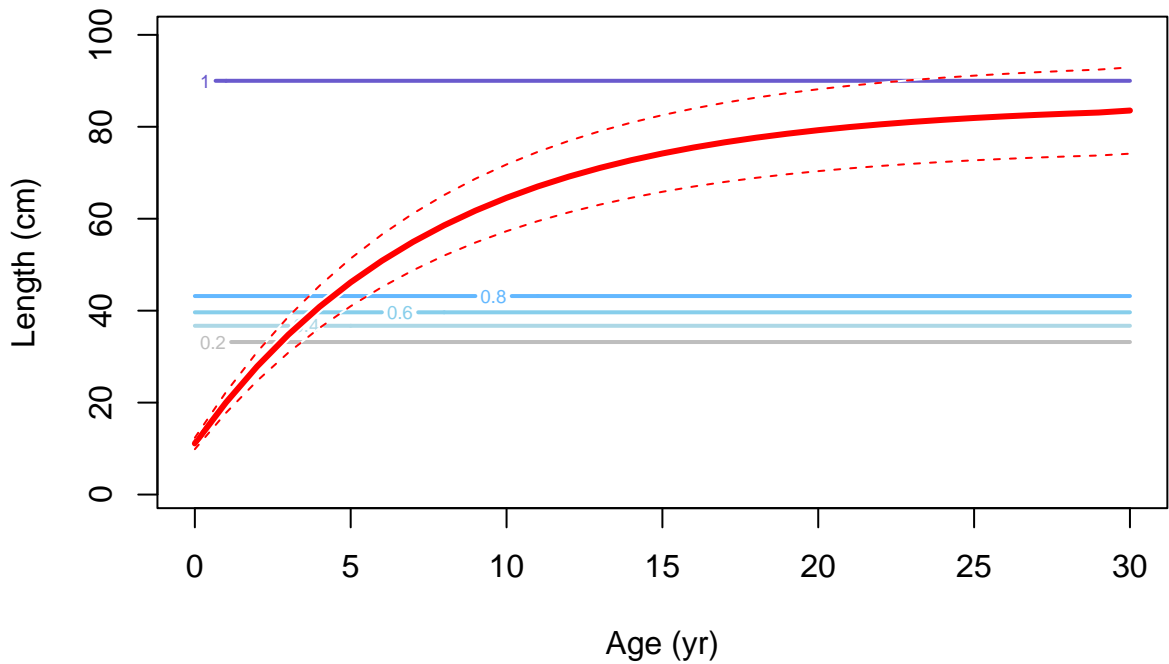


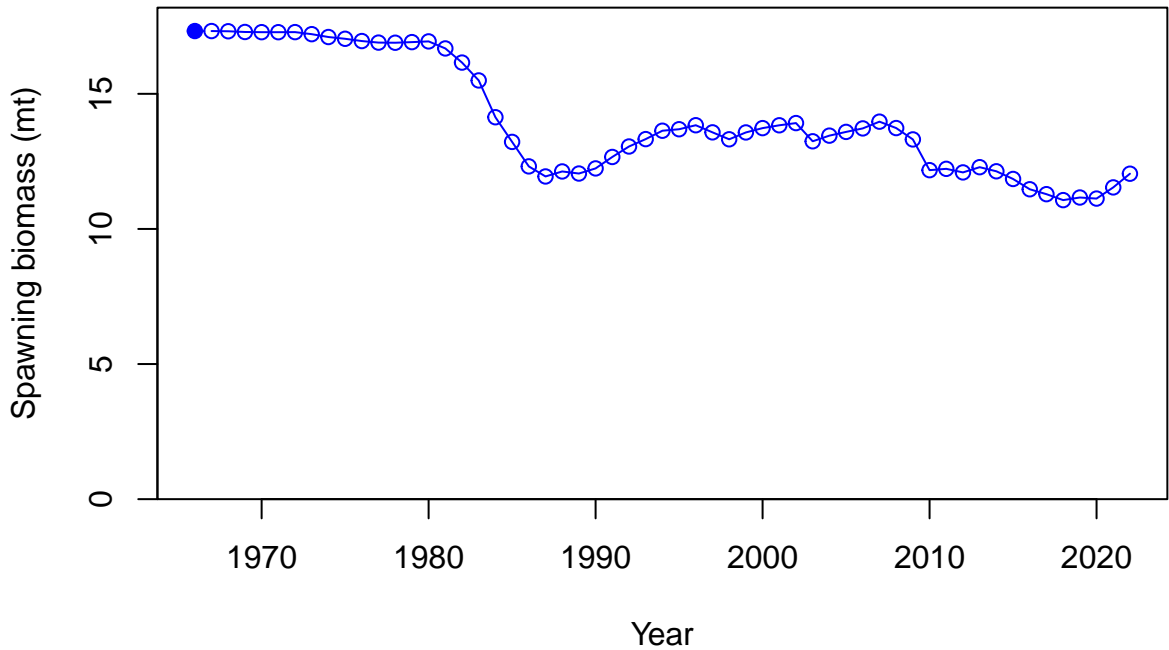
Selectivity

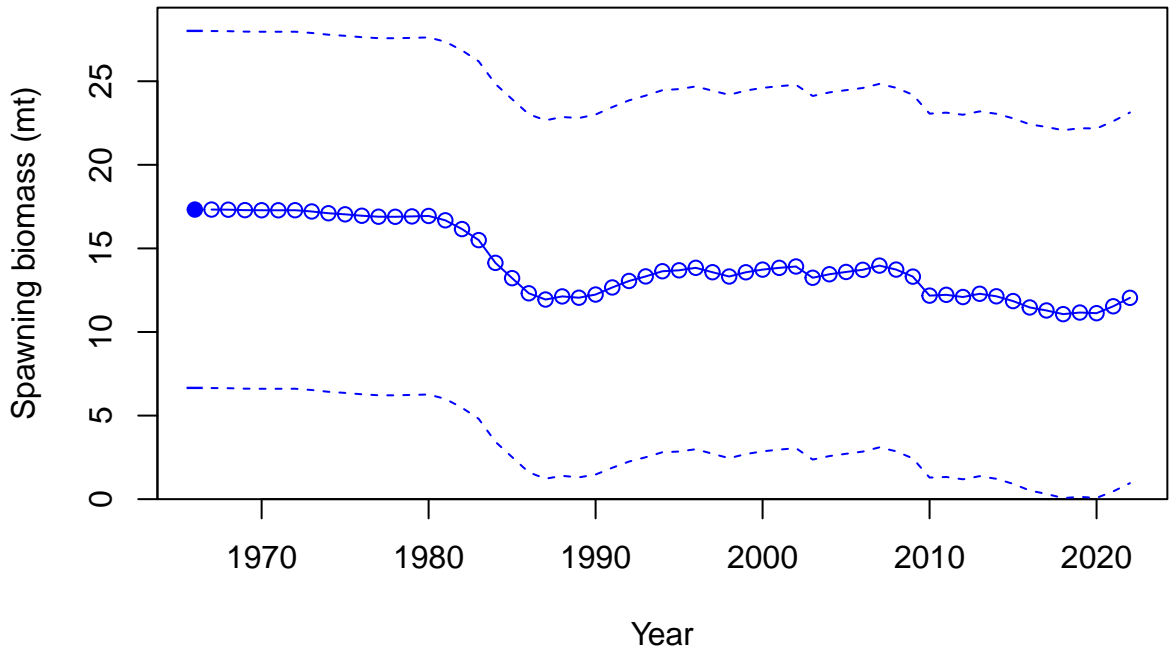




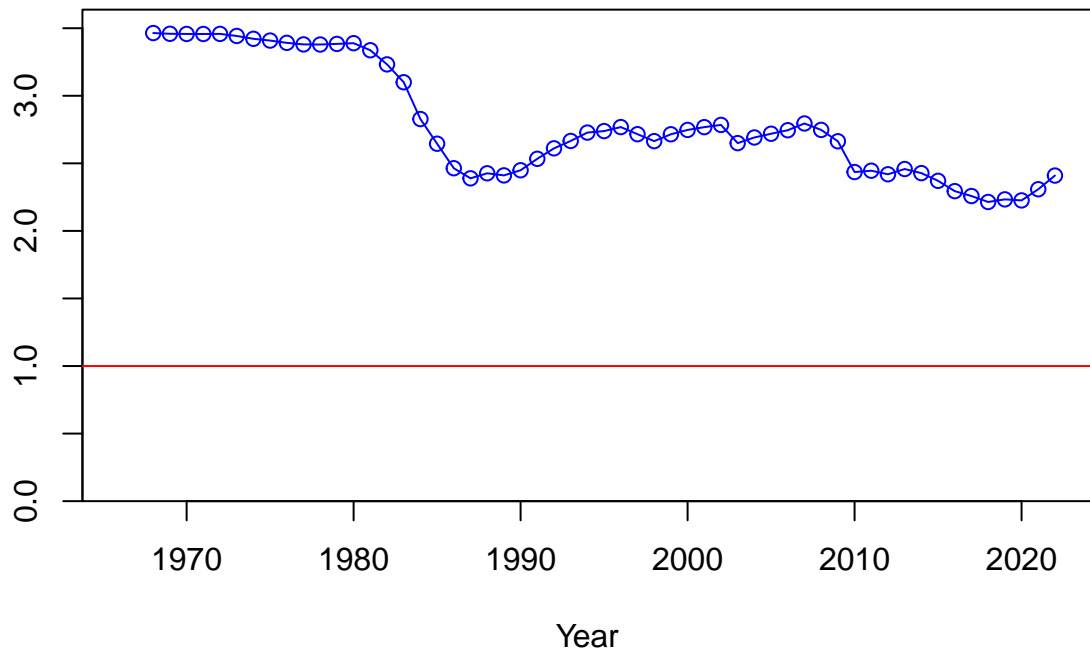




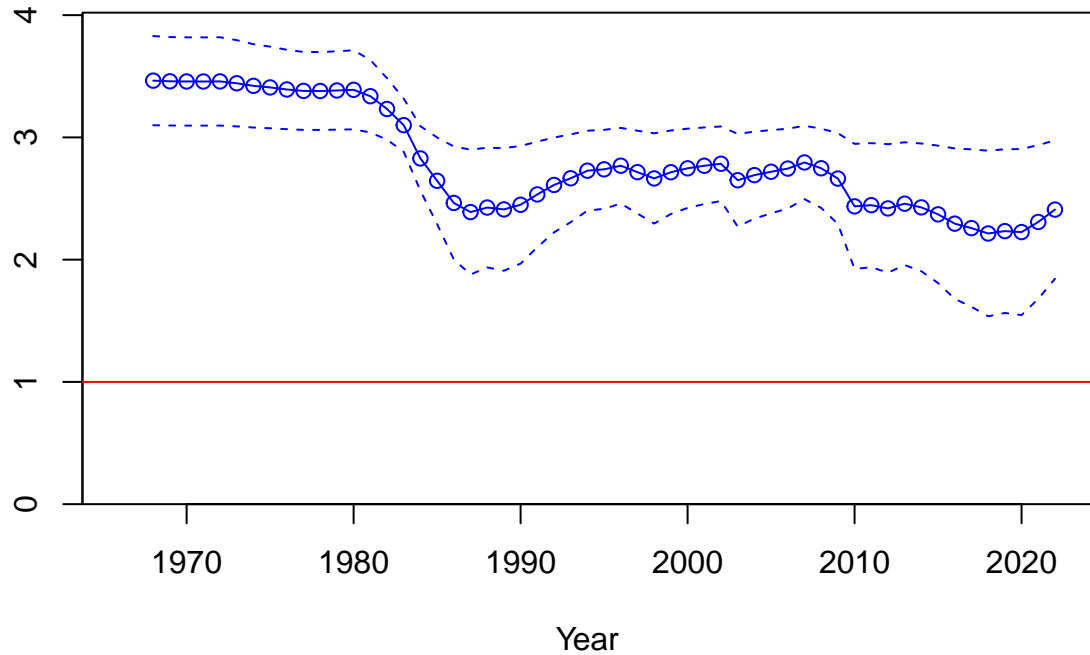


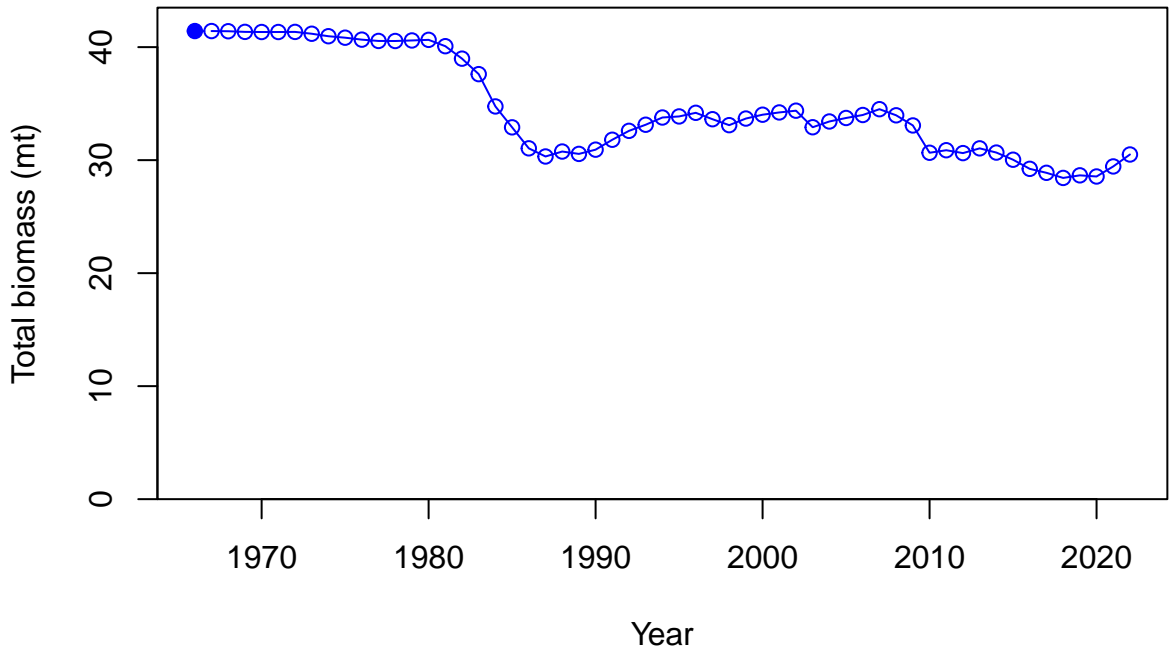


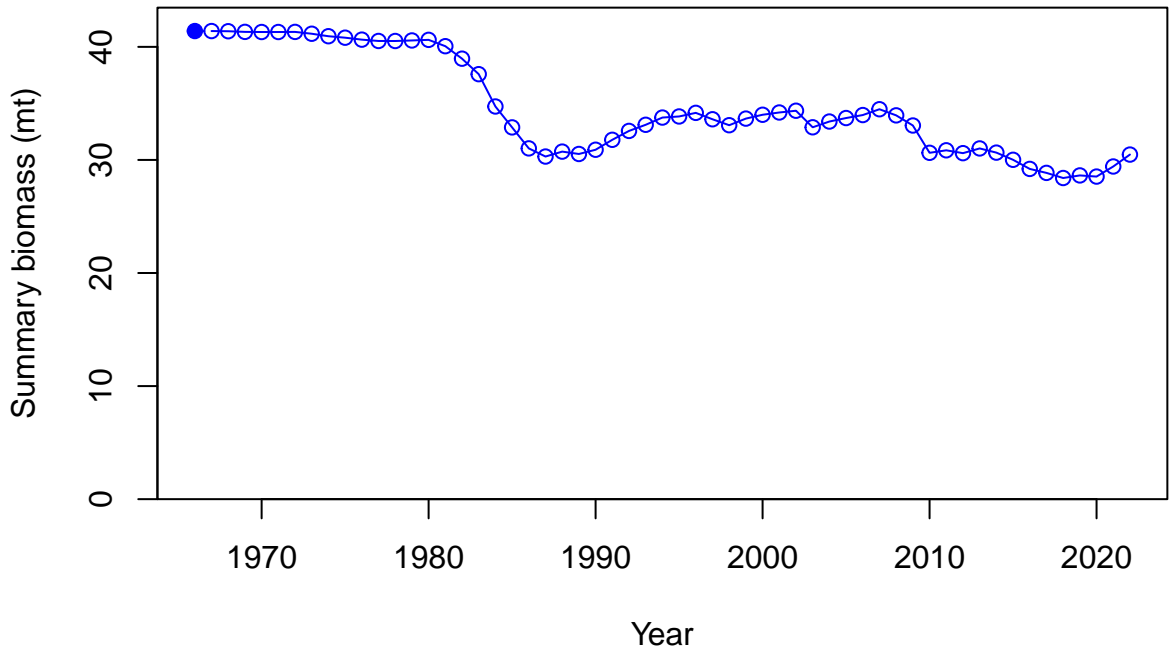
Relative spawning biomass: B/B_{MSY}

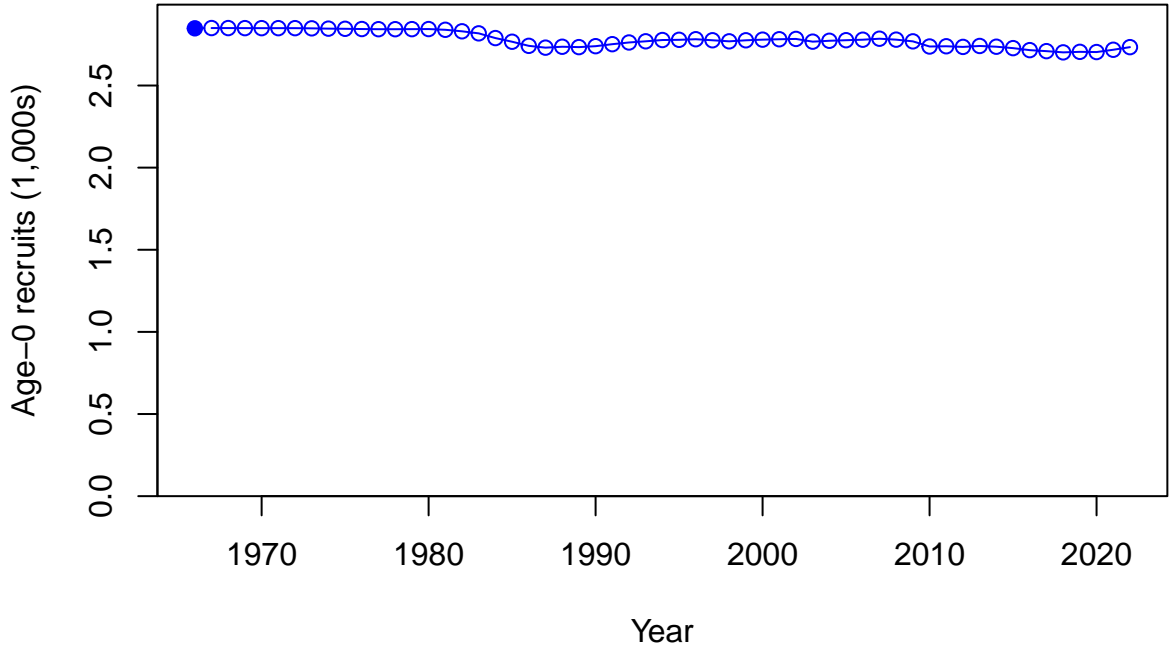


Relative spawning biomass: B/B_{MSY}

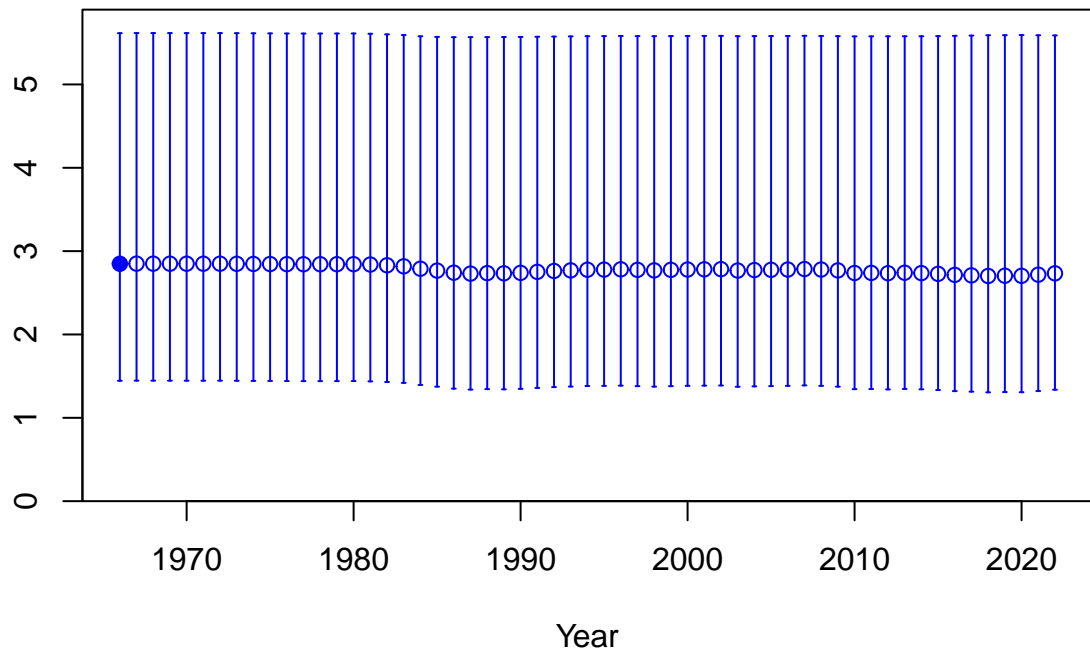




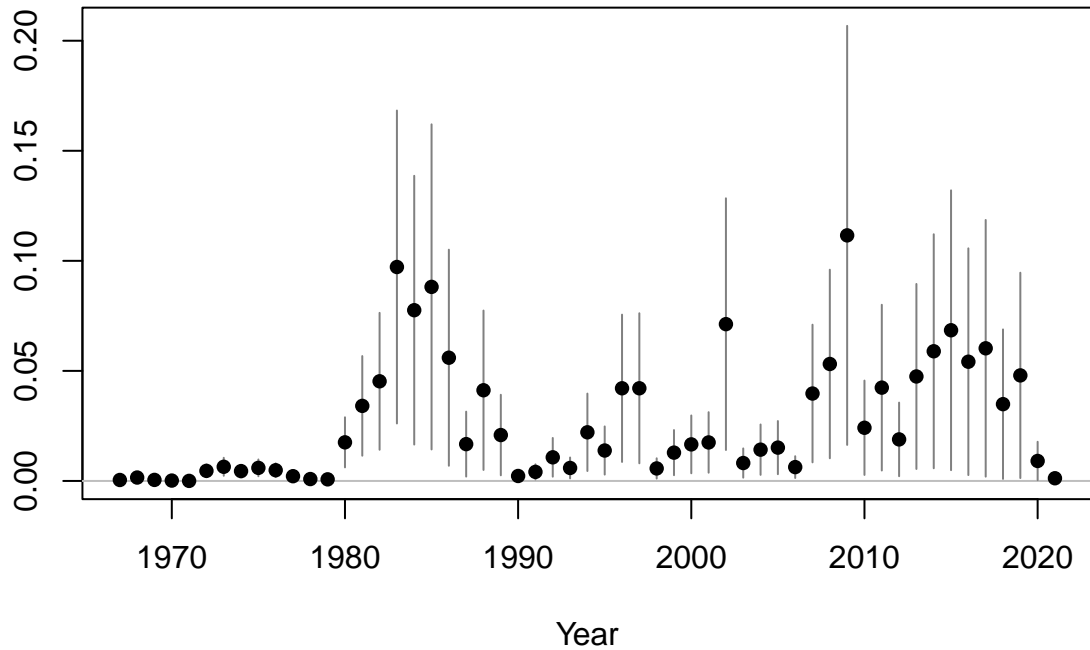


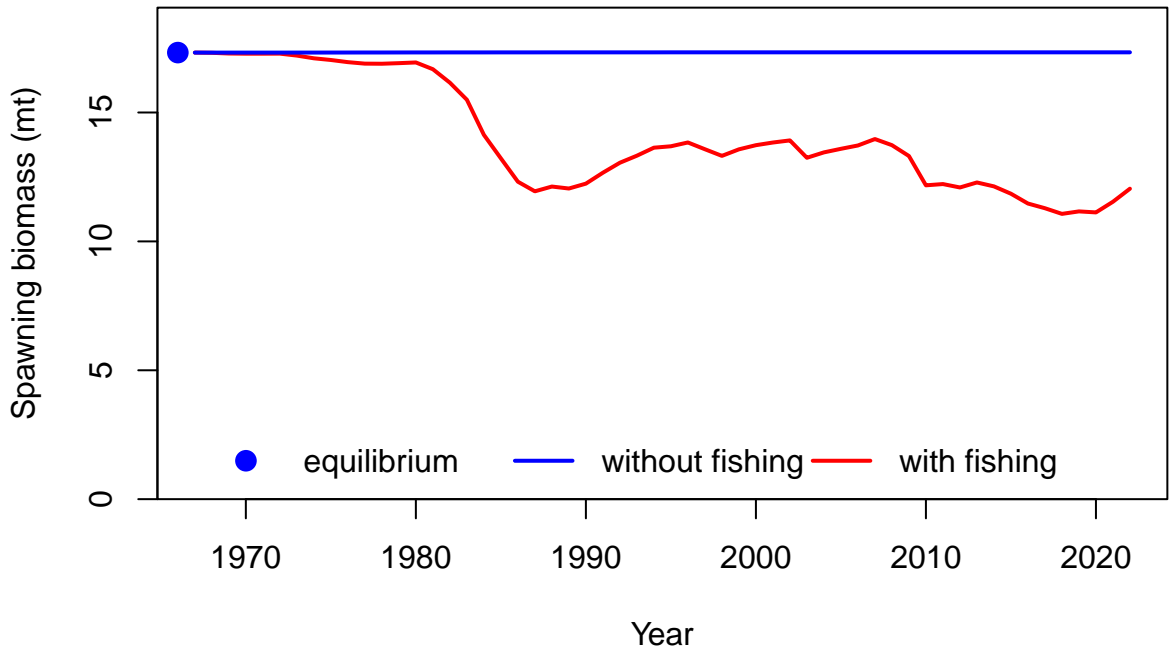


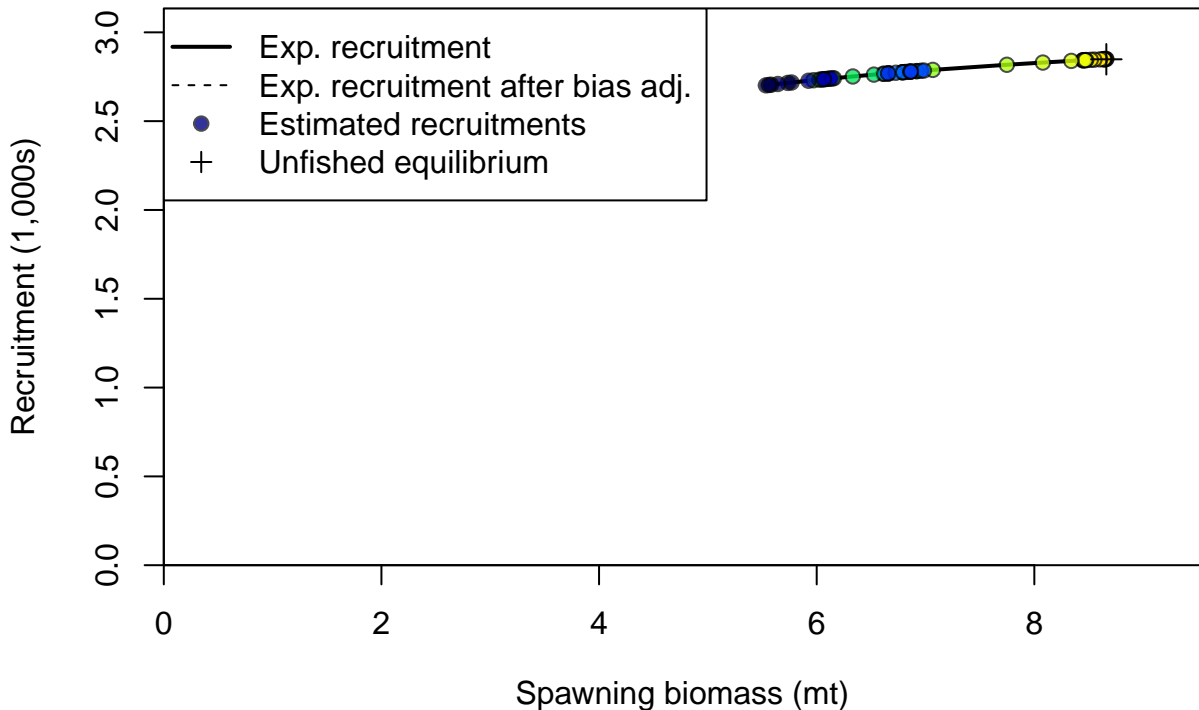
Age-0 recruits (1,000s)



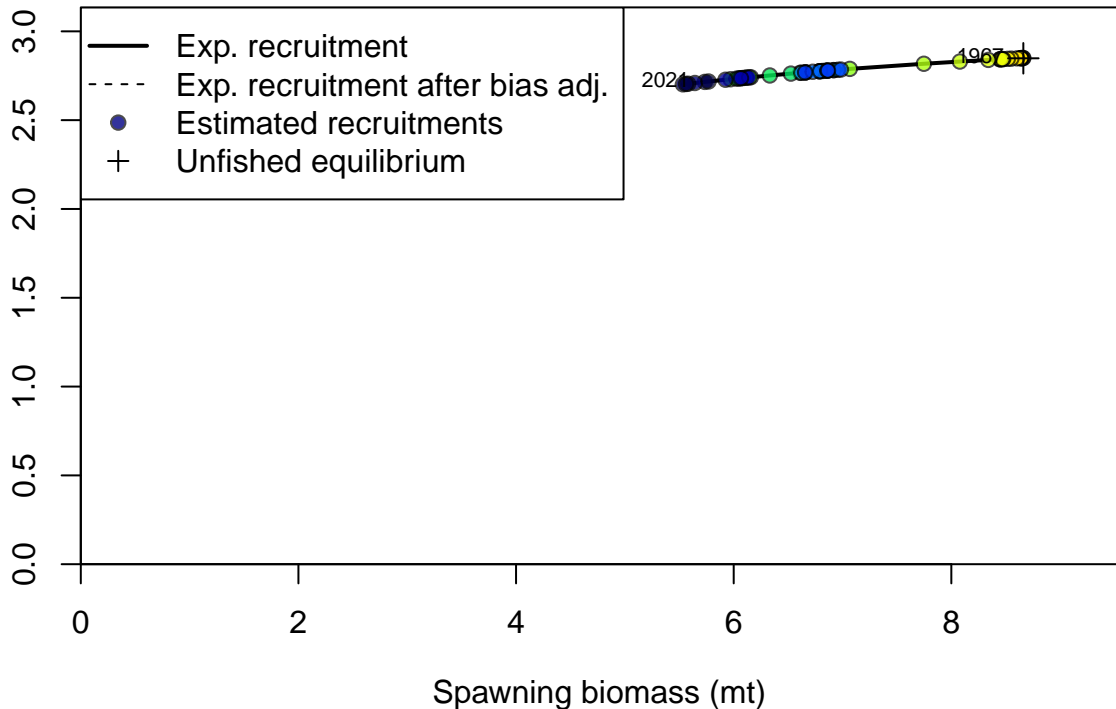
Summary Fishing Mortality

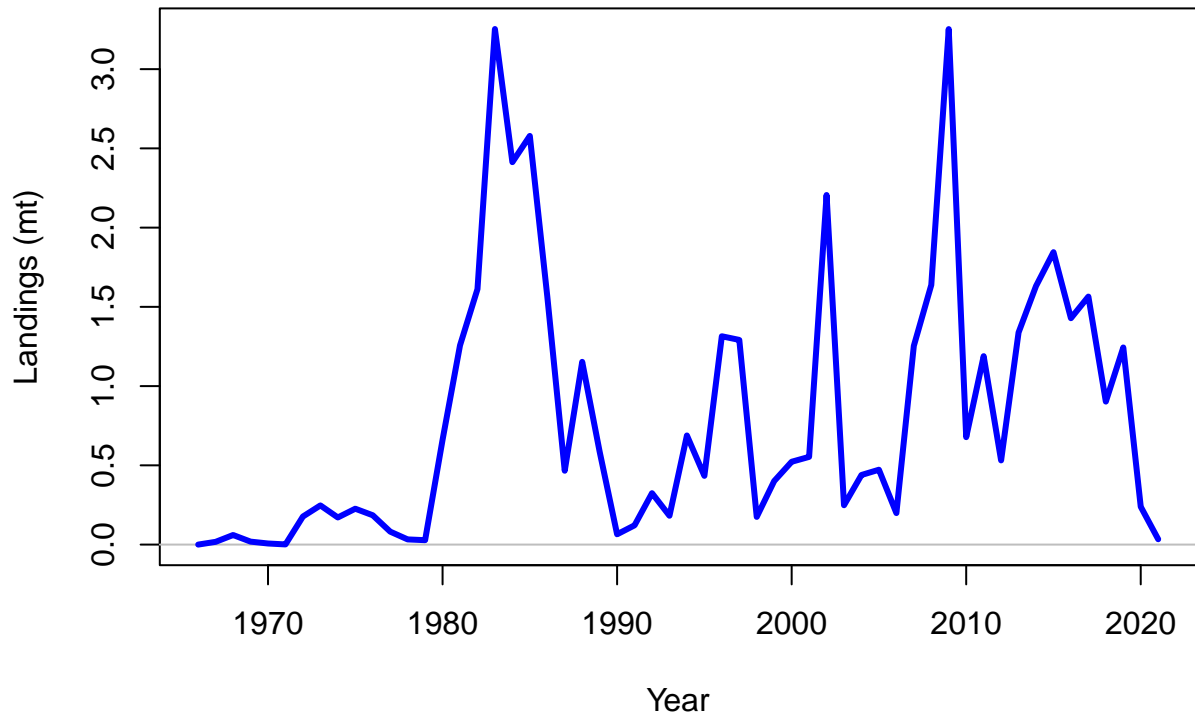


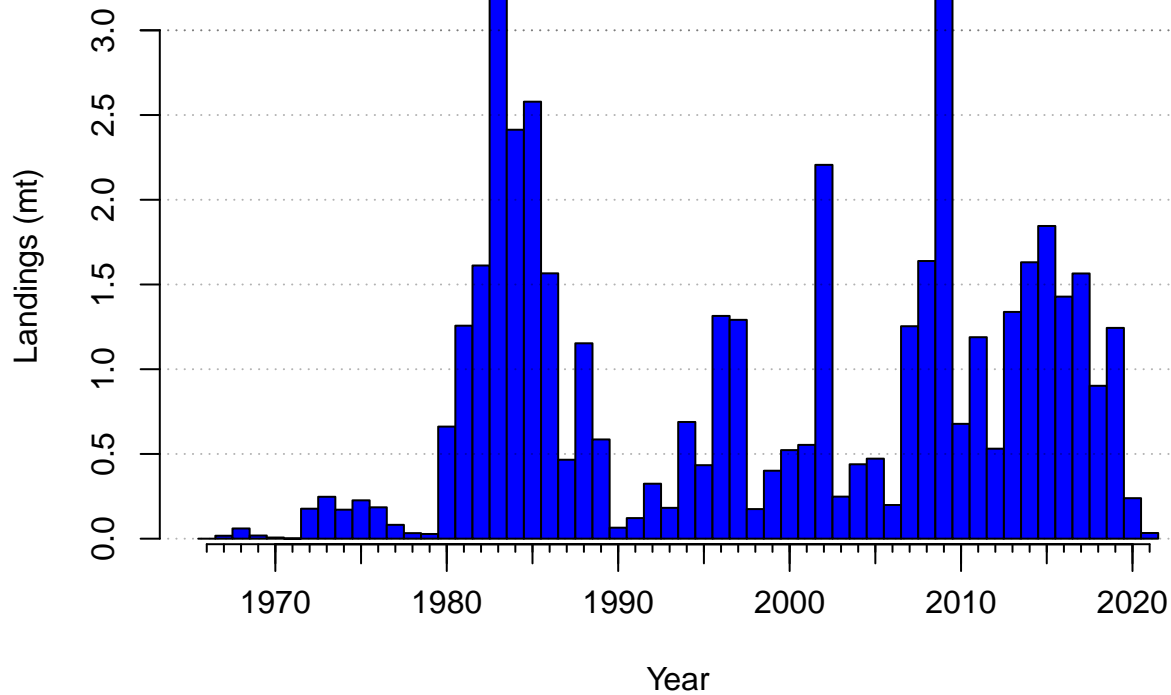


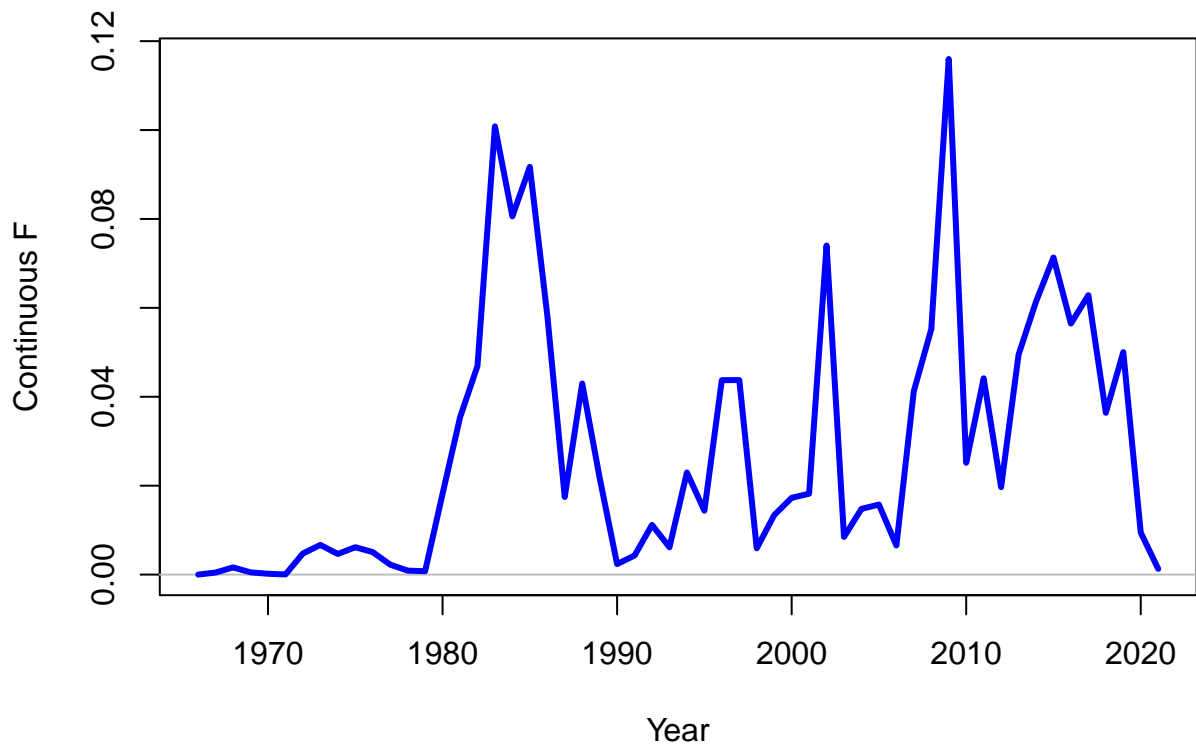


Recruitment (1,000s)

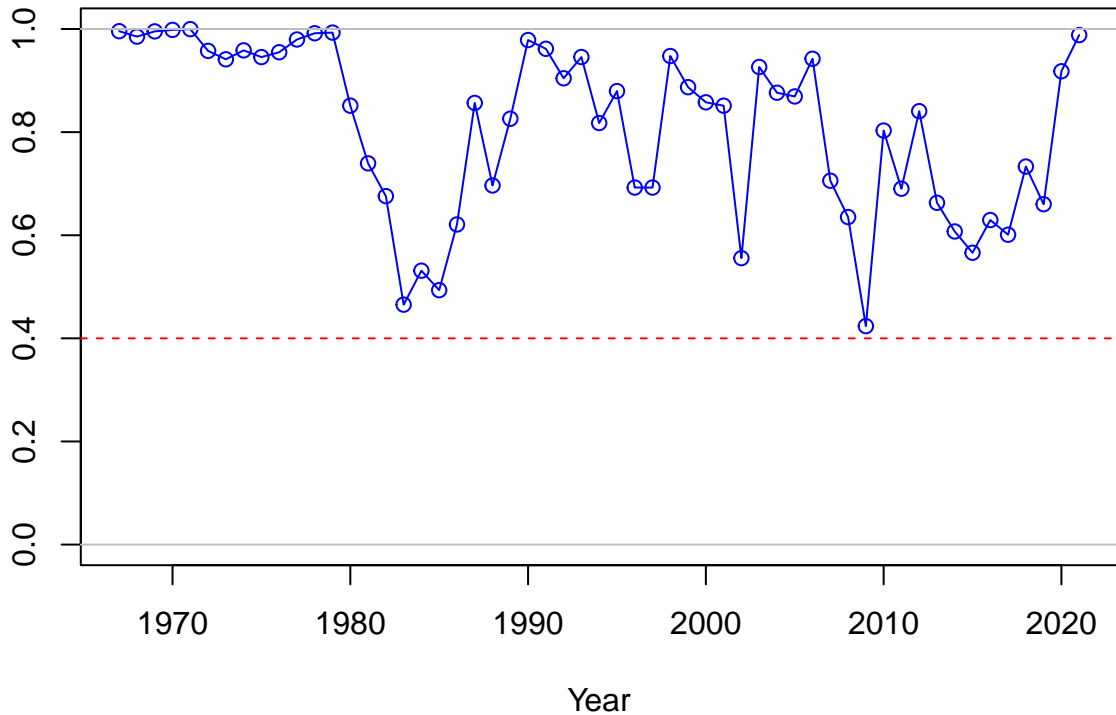




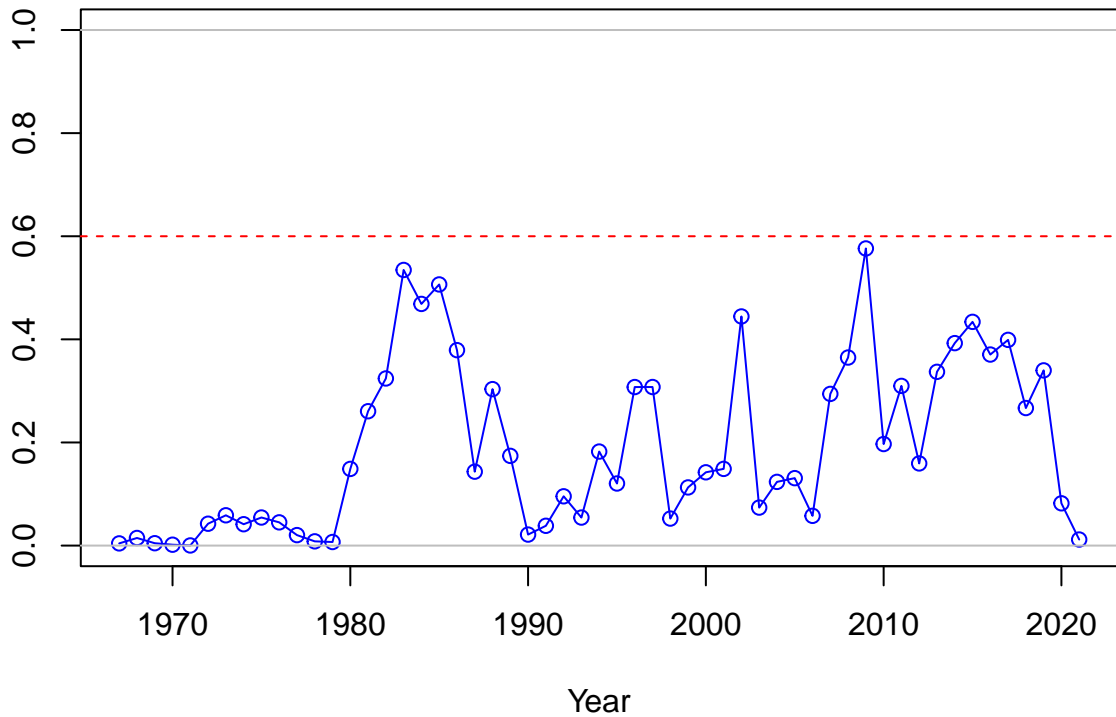




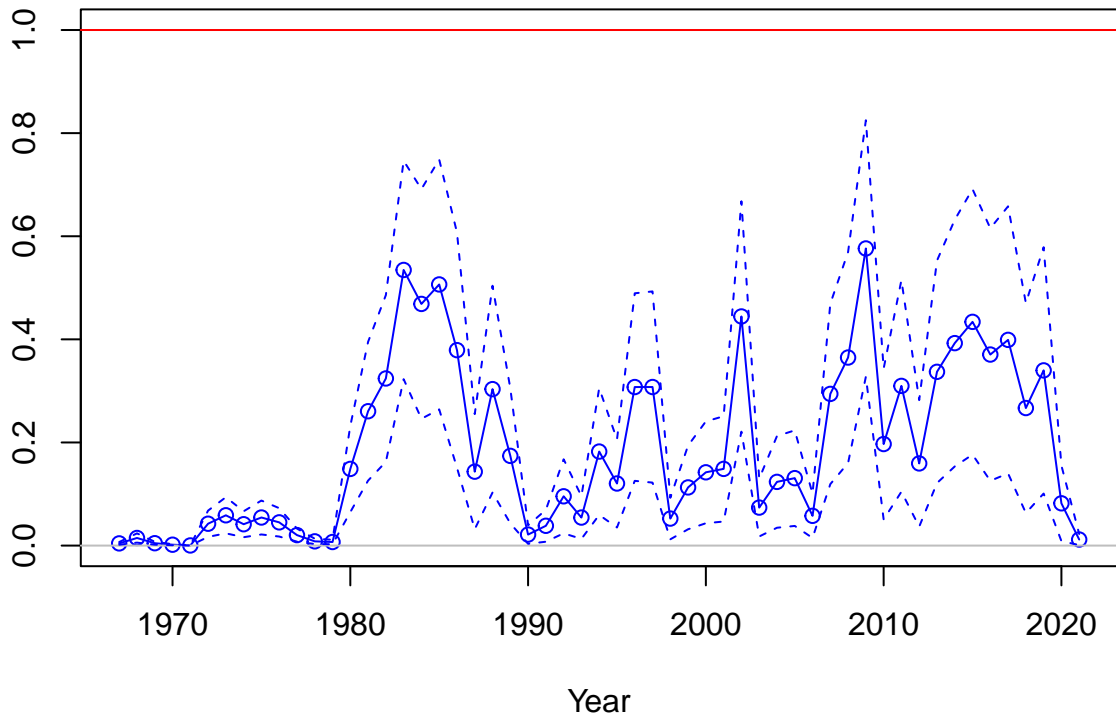
SPR



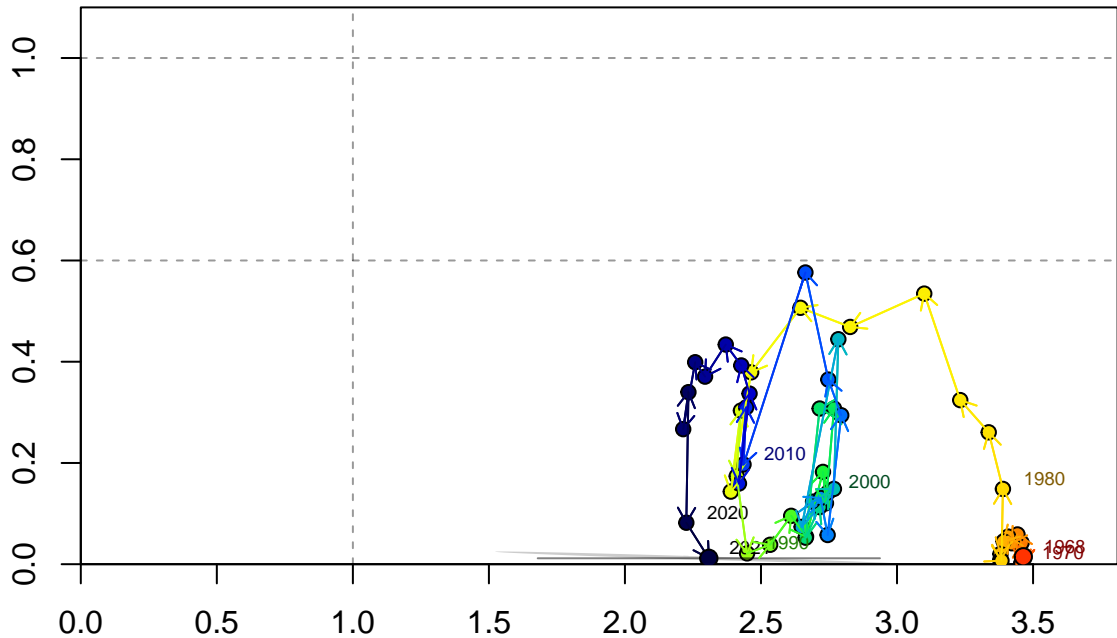
1-SPR



Fishing intensity: 1-SPR

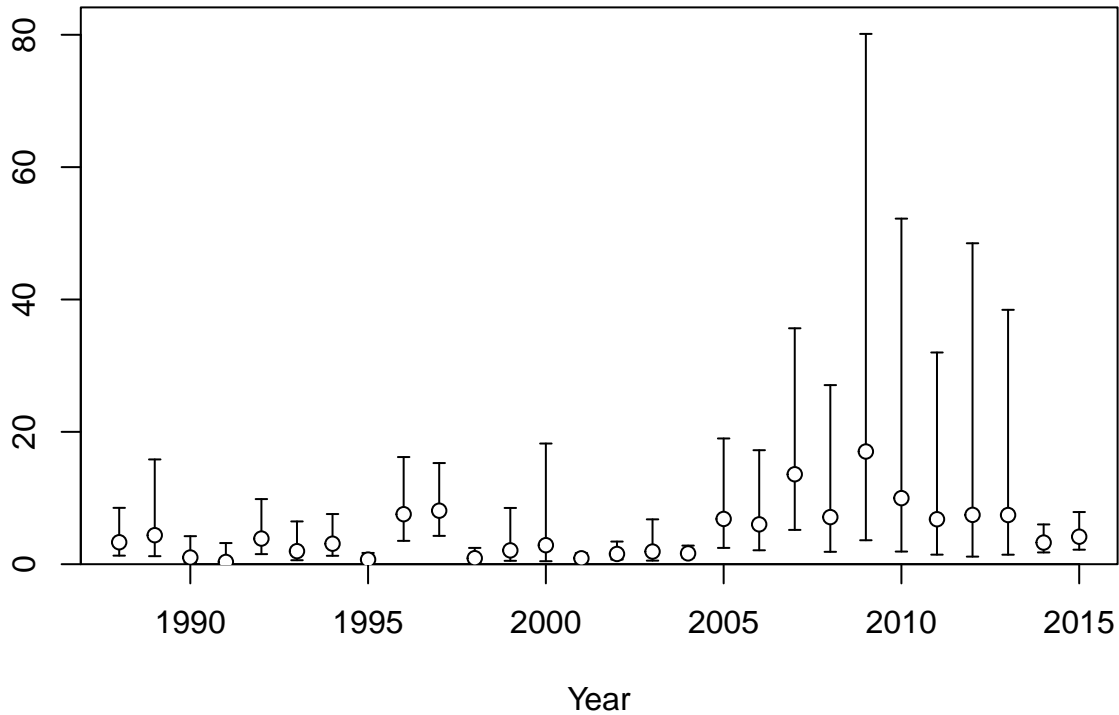


Fishing intensity: 1-SPR

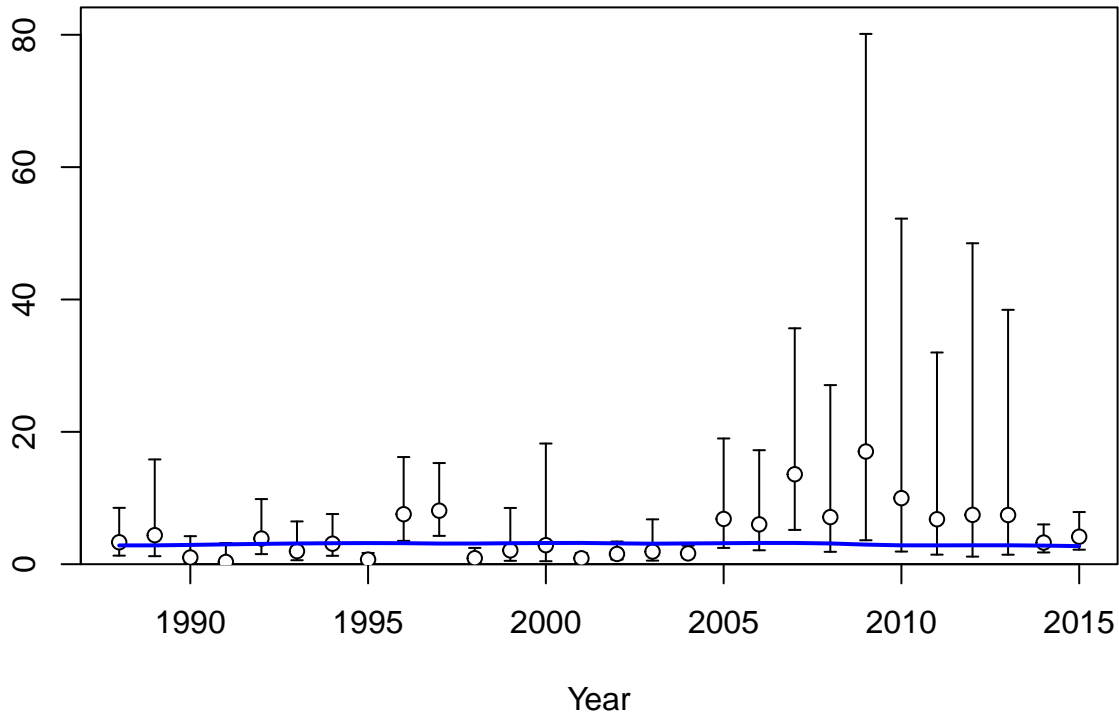


Relative spawning output: B/B_{MSY}

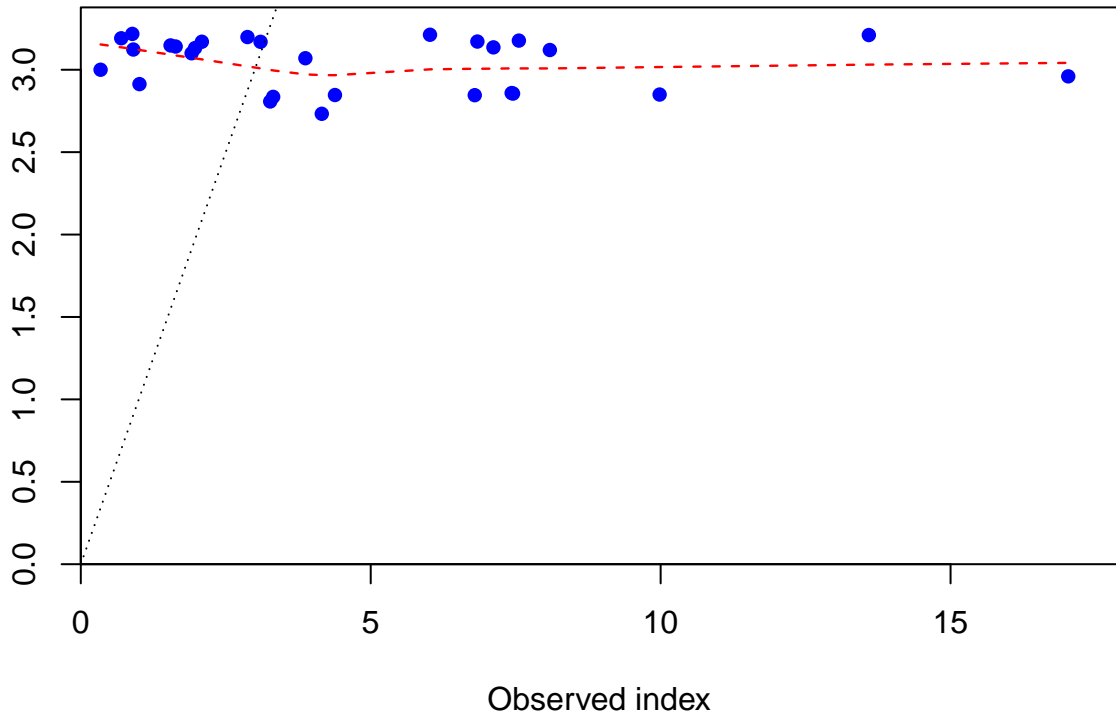
Index



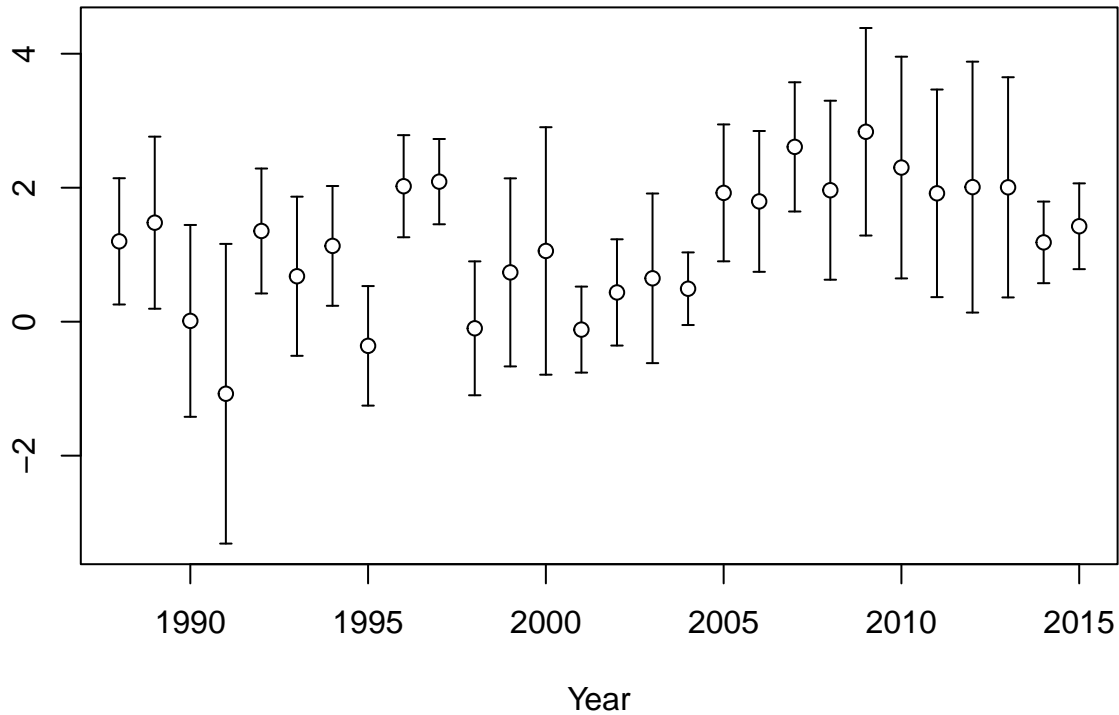
Index



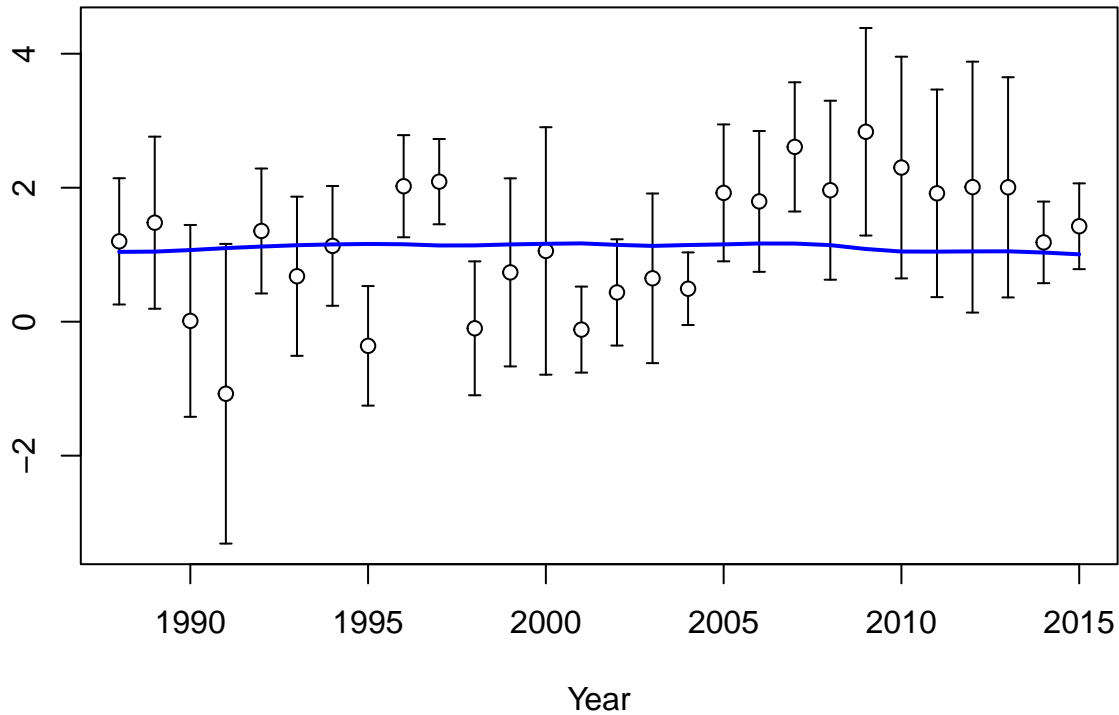
Expected index

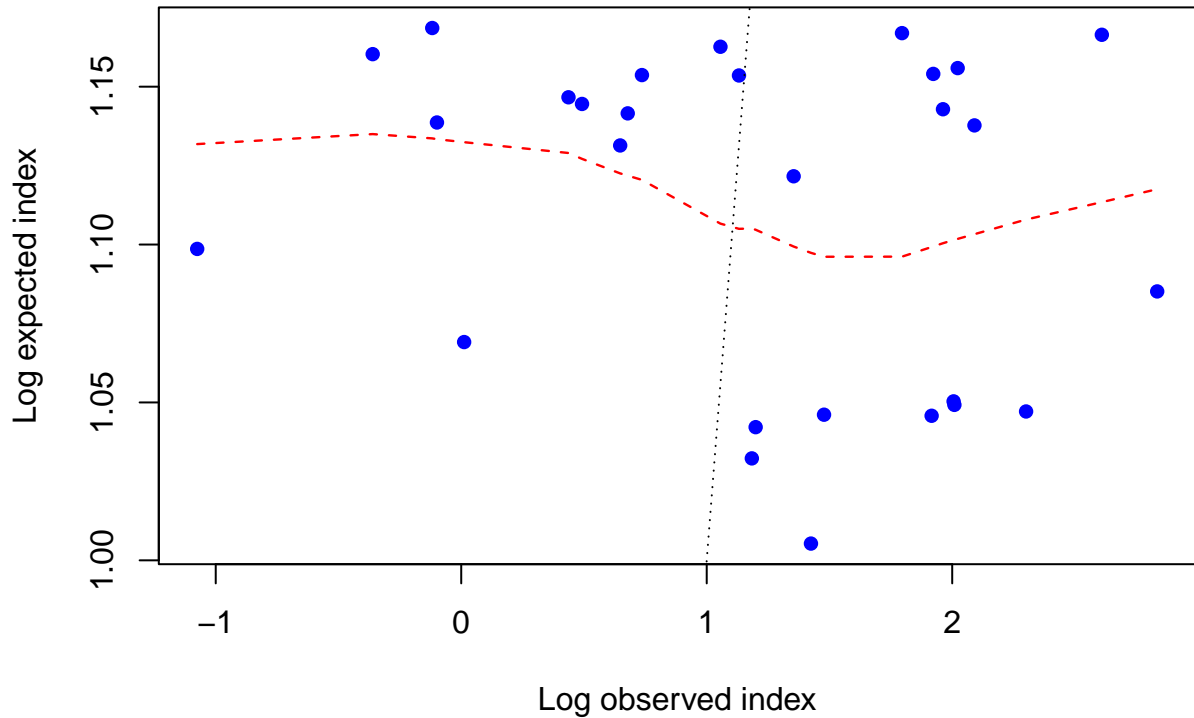


Log index

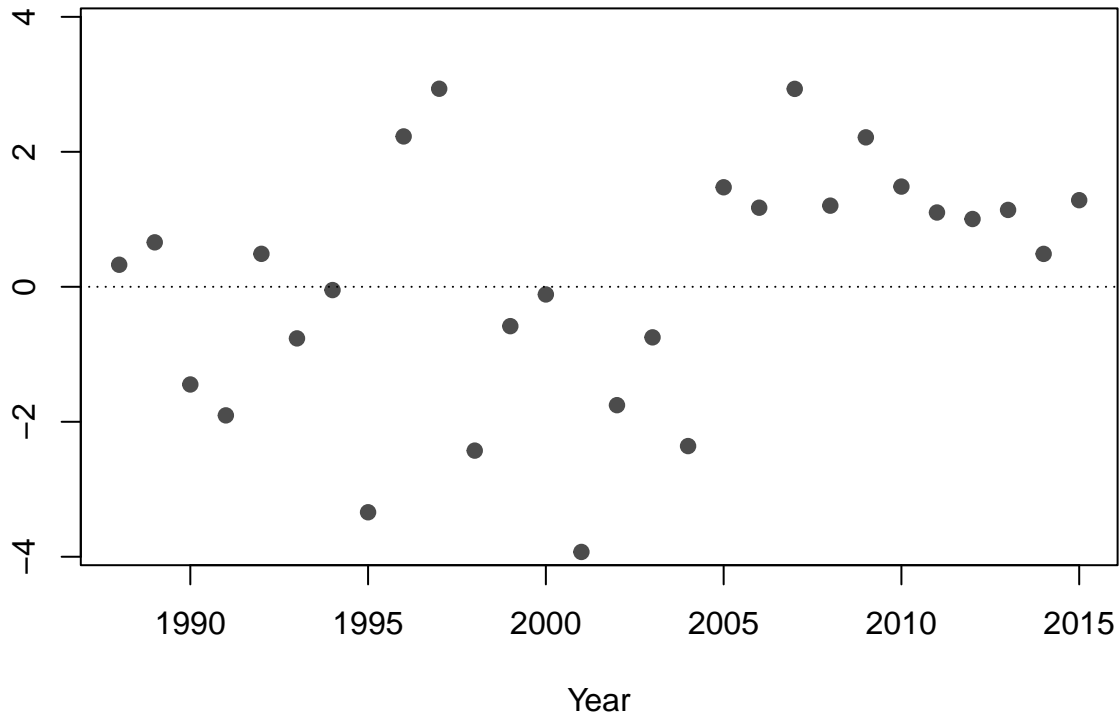


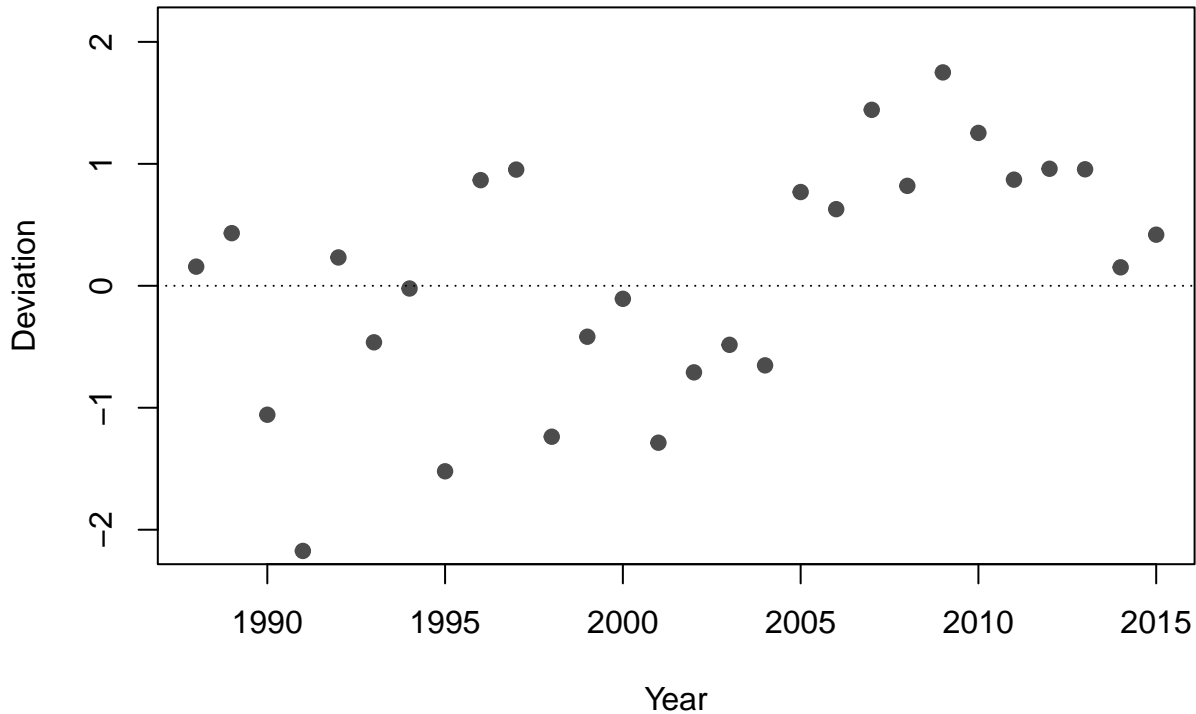
Log index



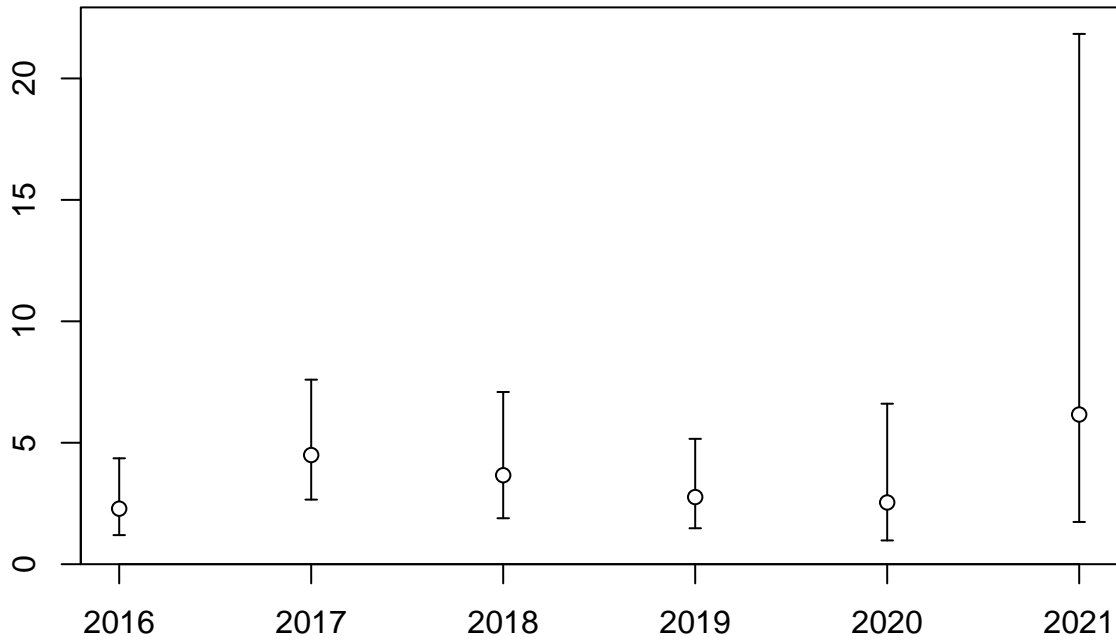


Residual



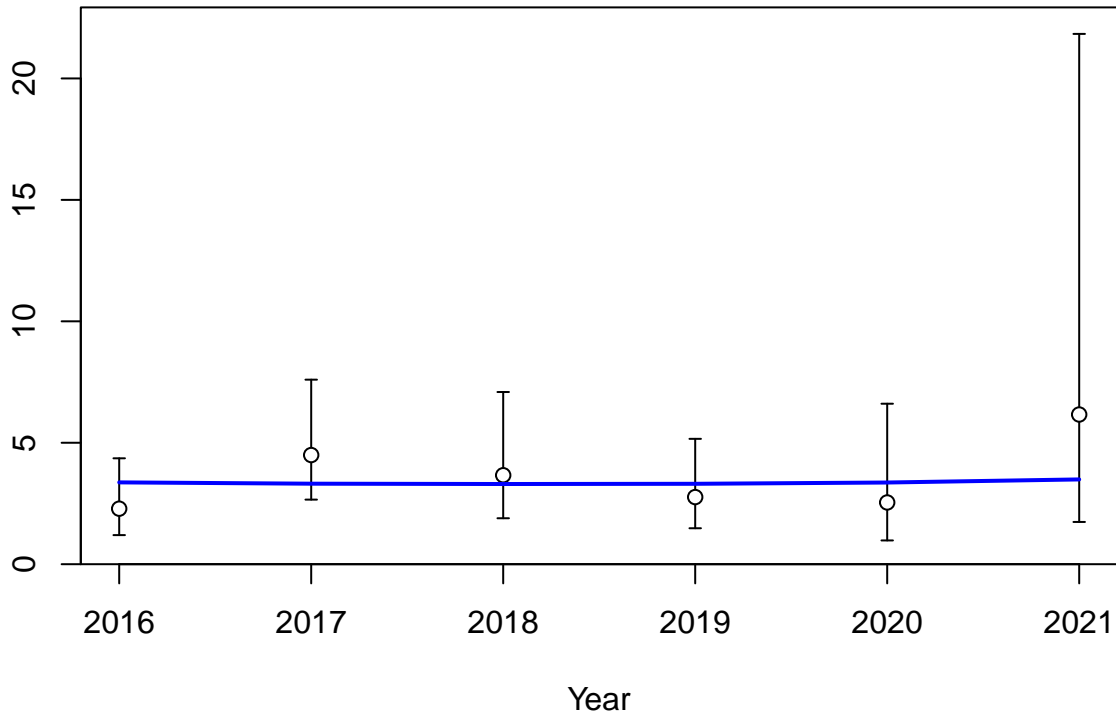


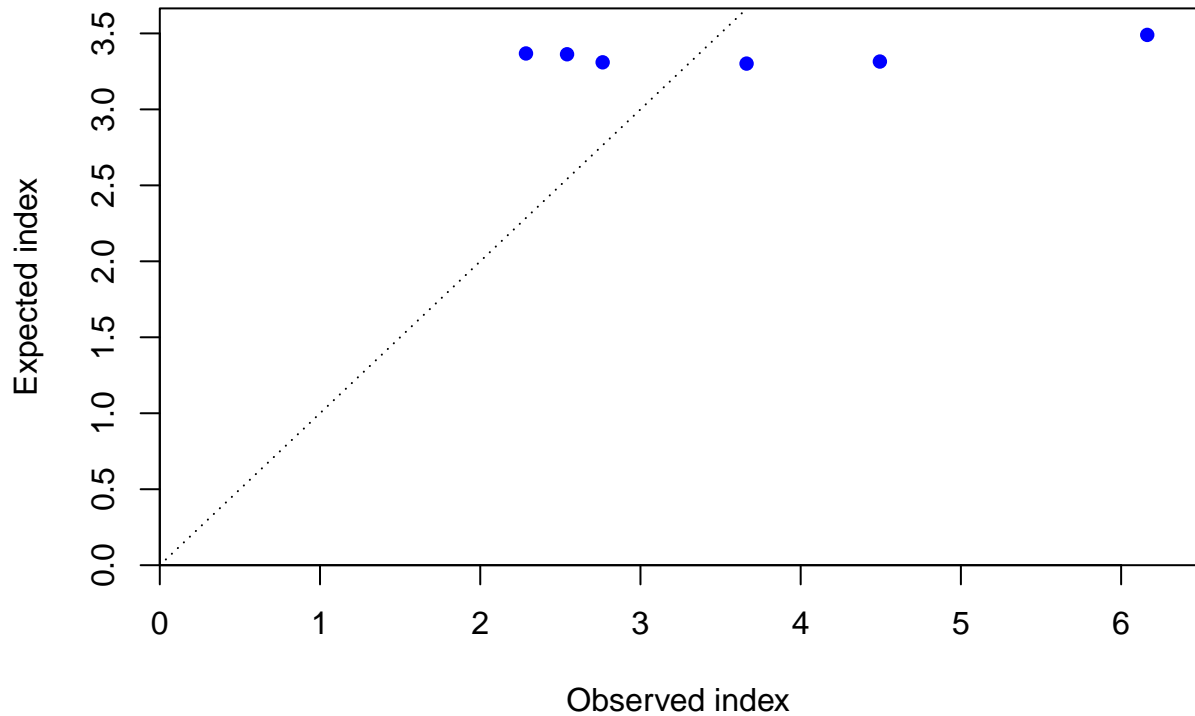
Index



Year

Index





Log index

3.0
2.5
2.0
1.5
1.0
0.5
0.0

2016

2017

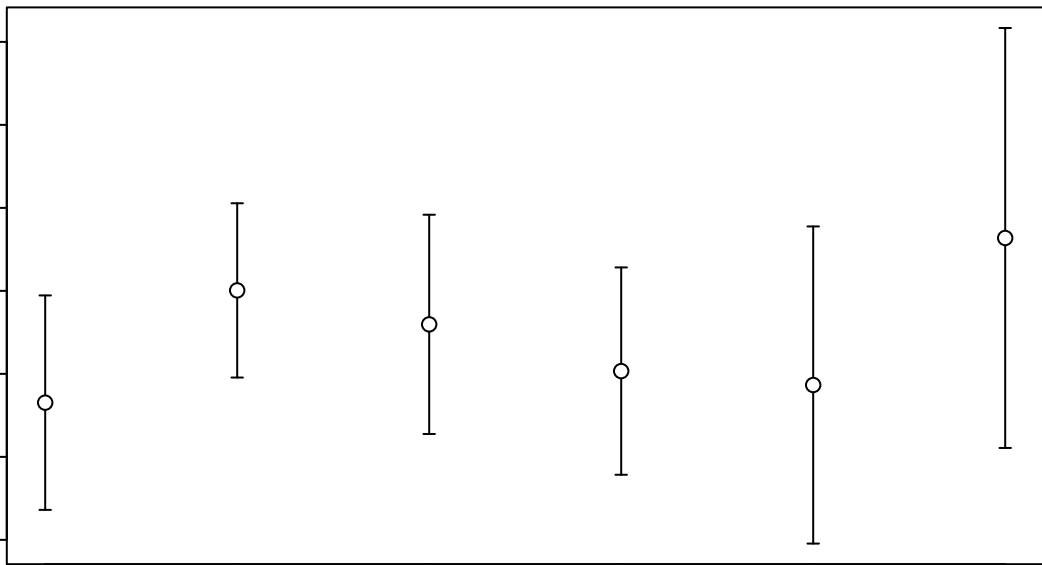
2018

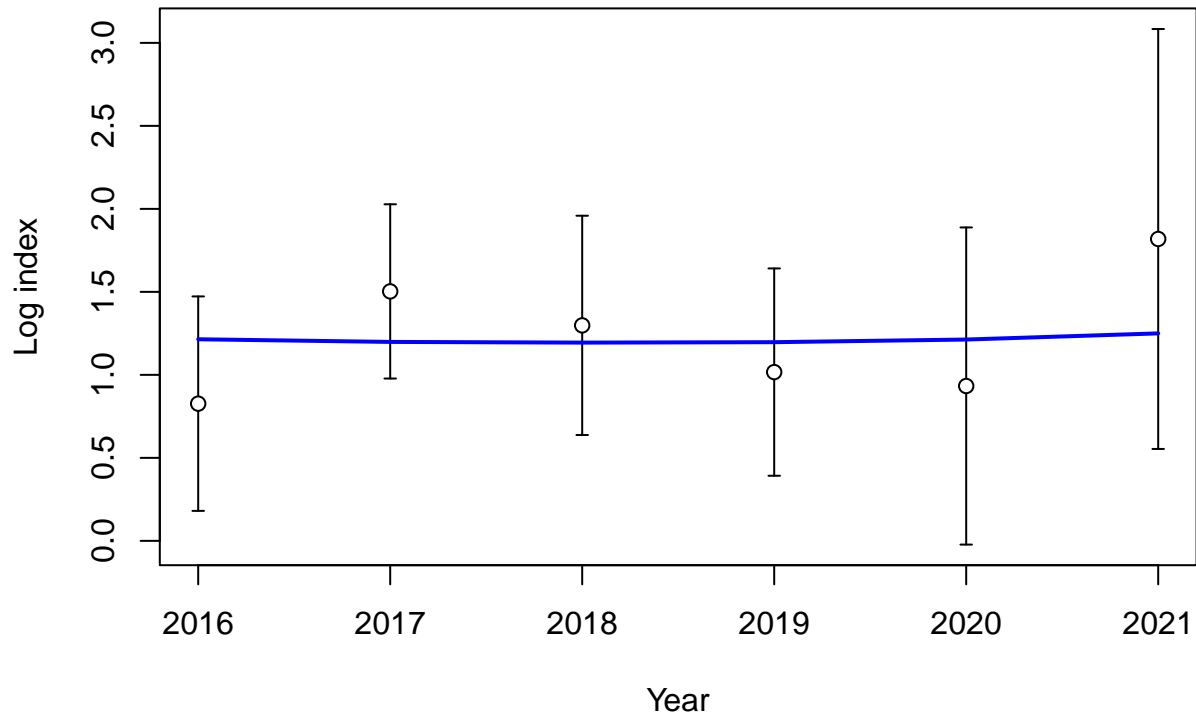
2019

2020

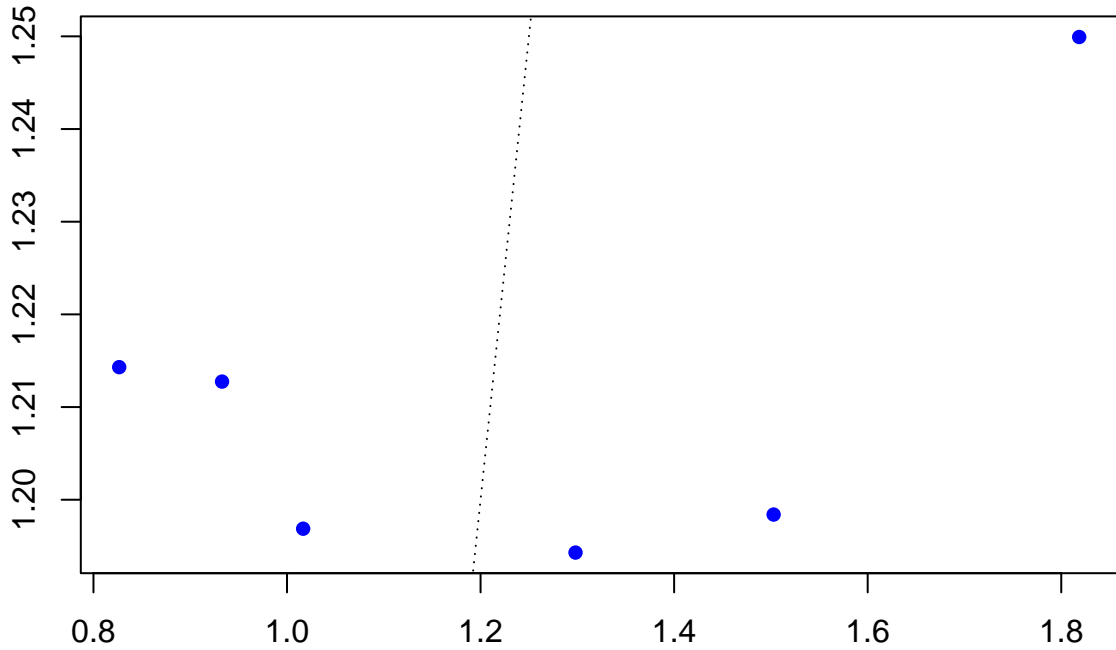
2021

Year

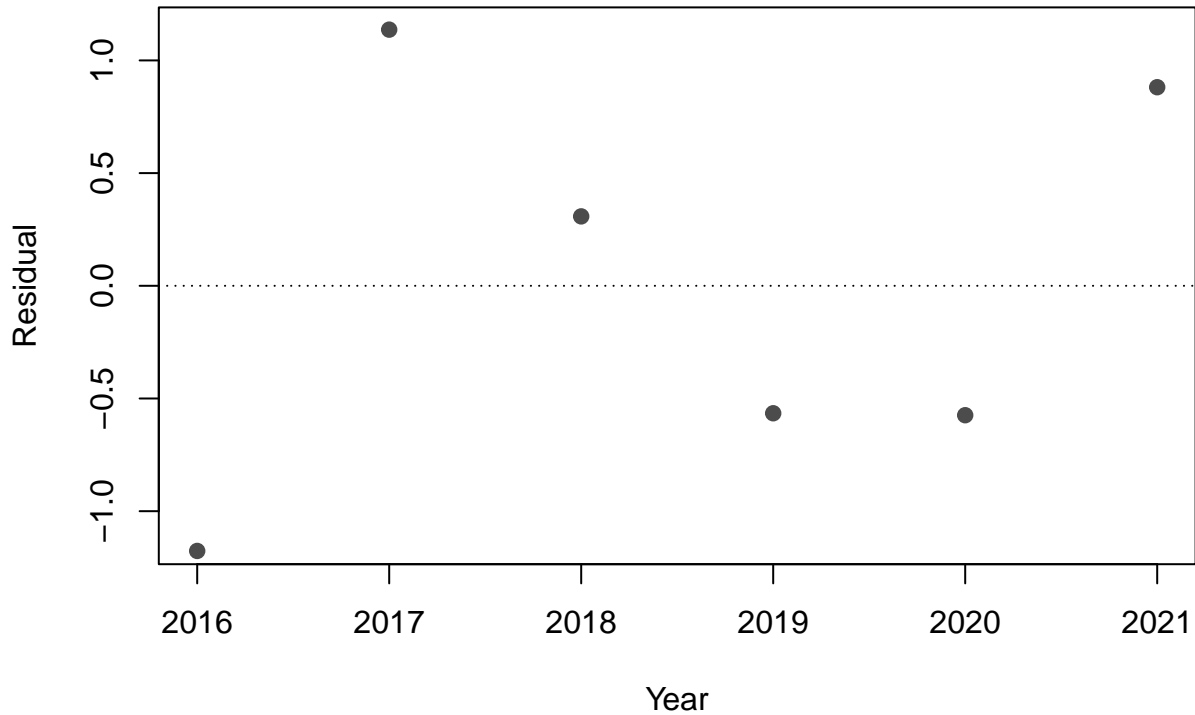


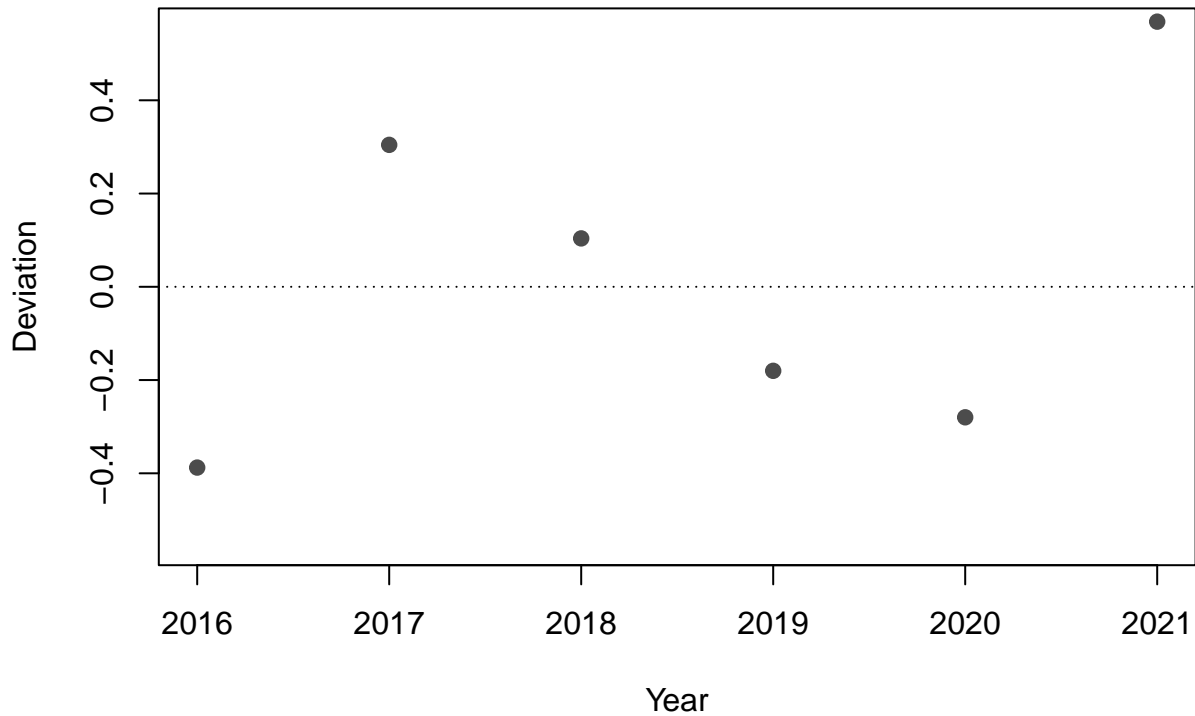


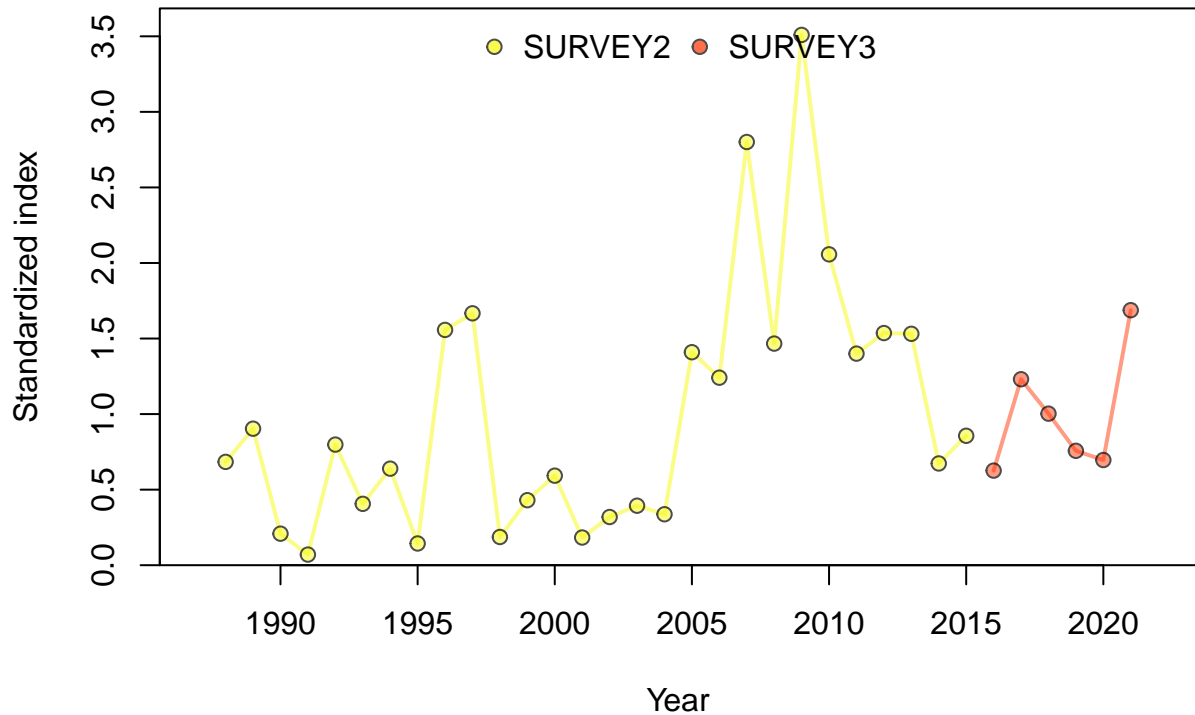
Log expected index

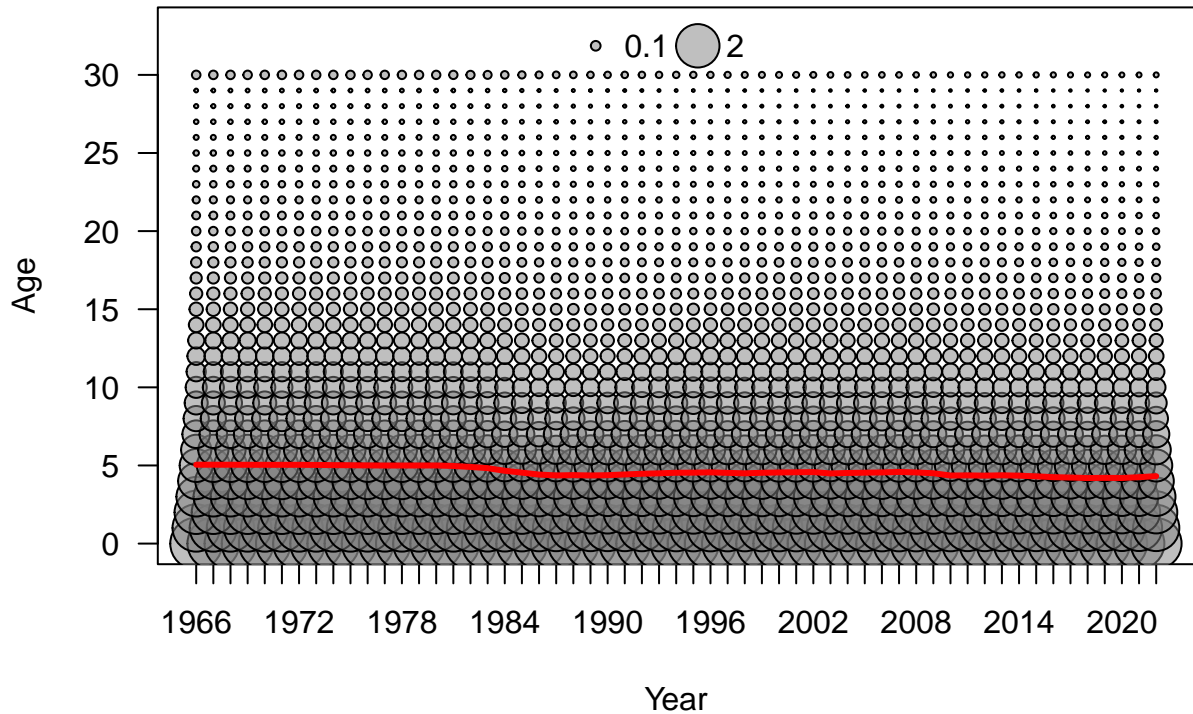


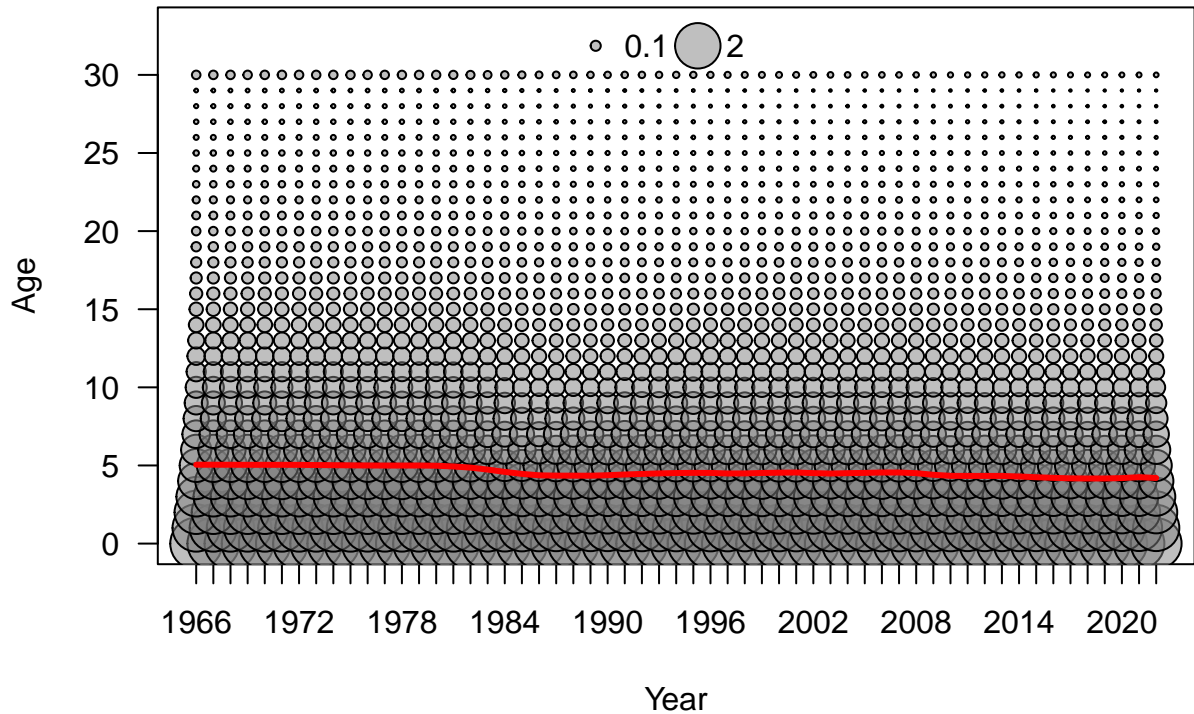
Log observed index

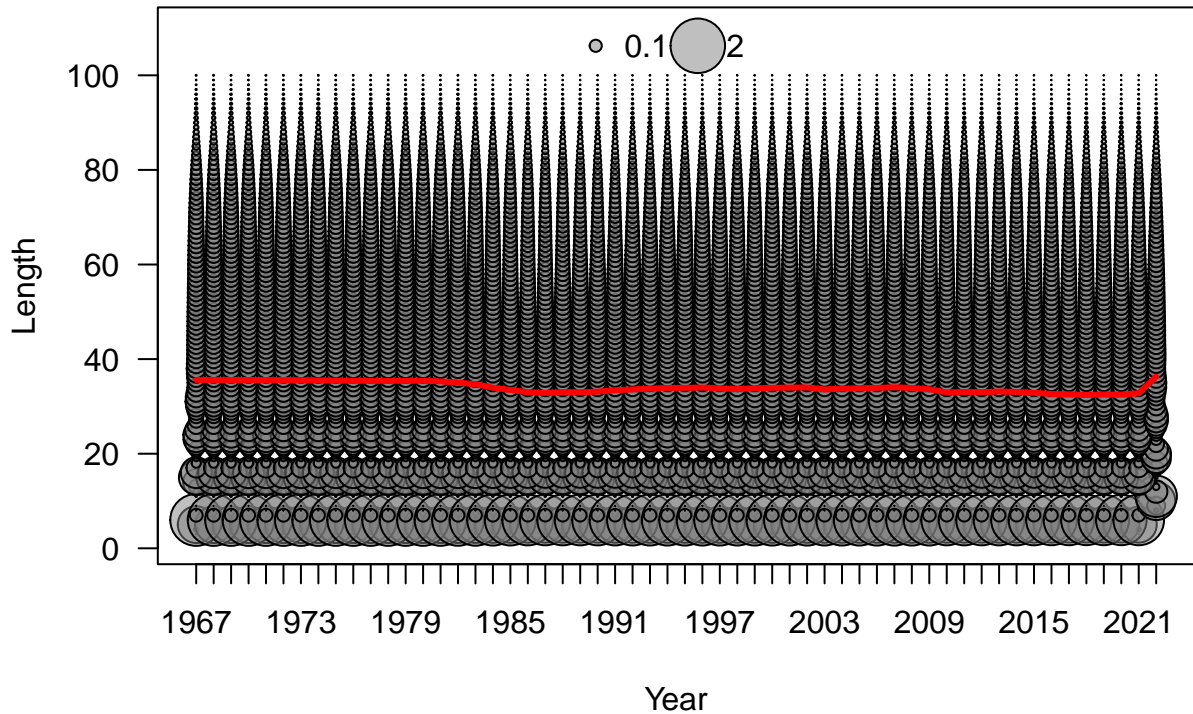


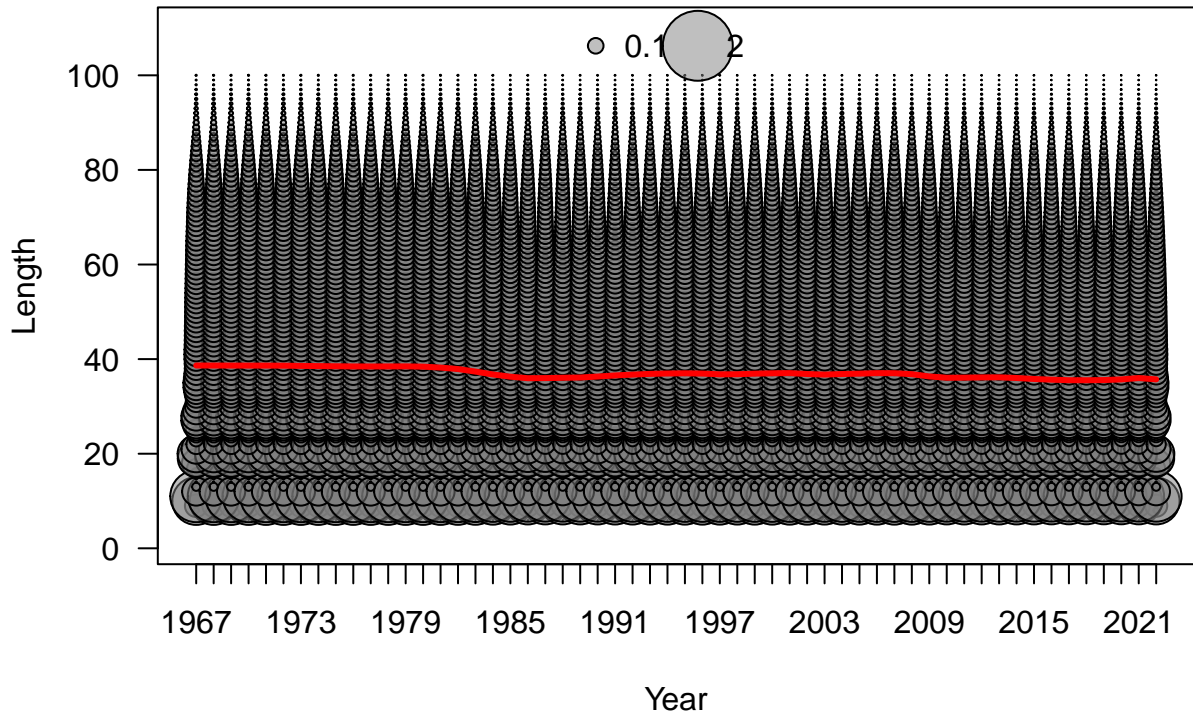


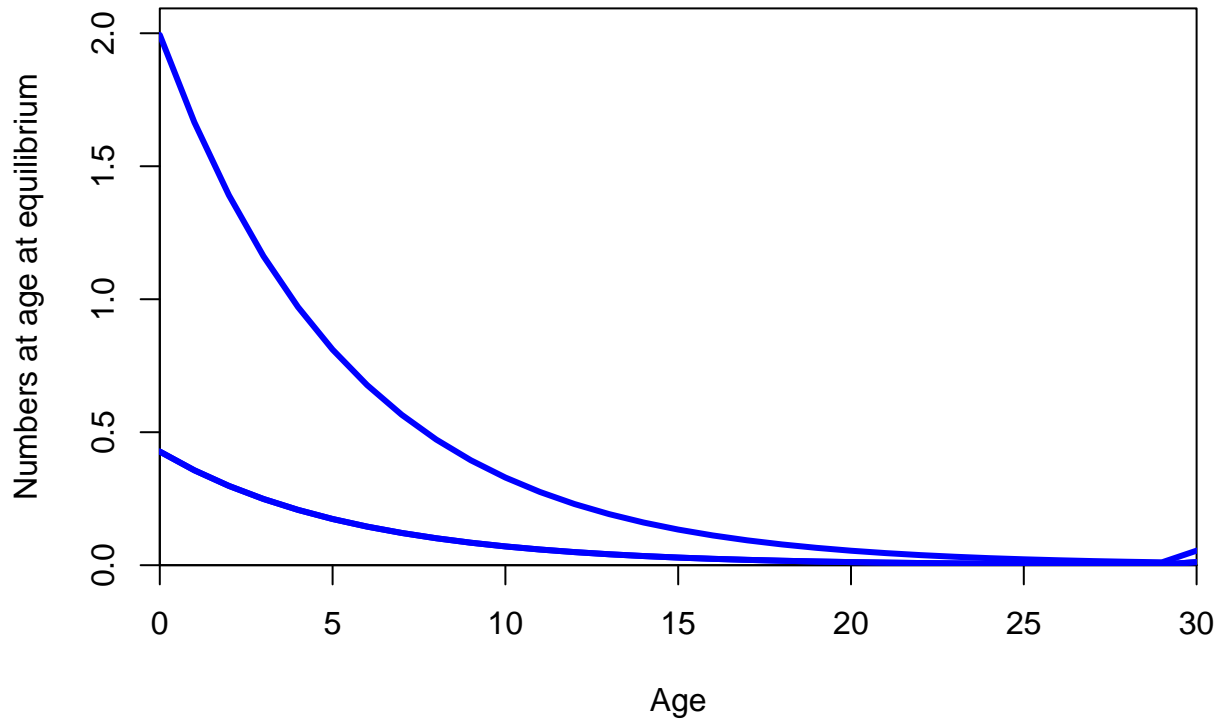






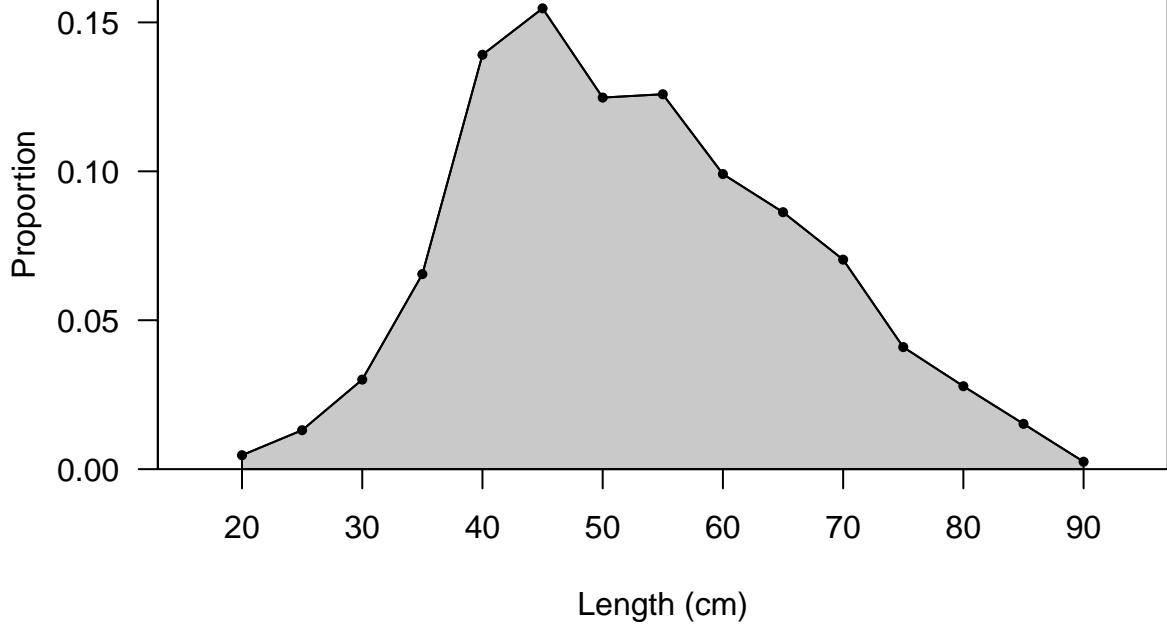






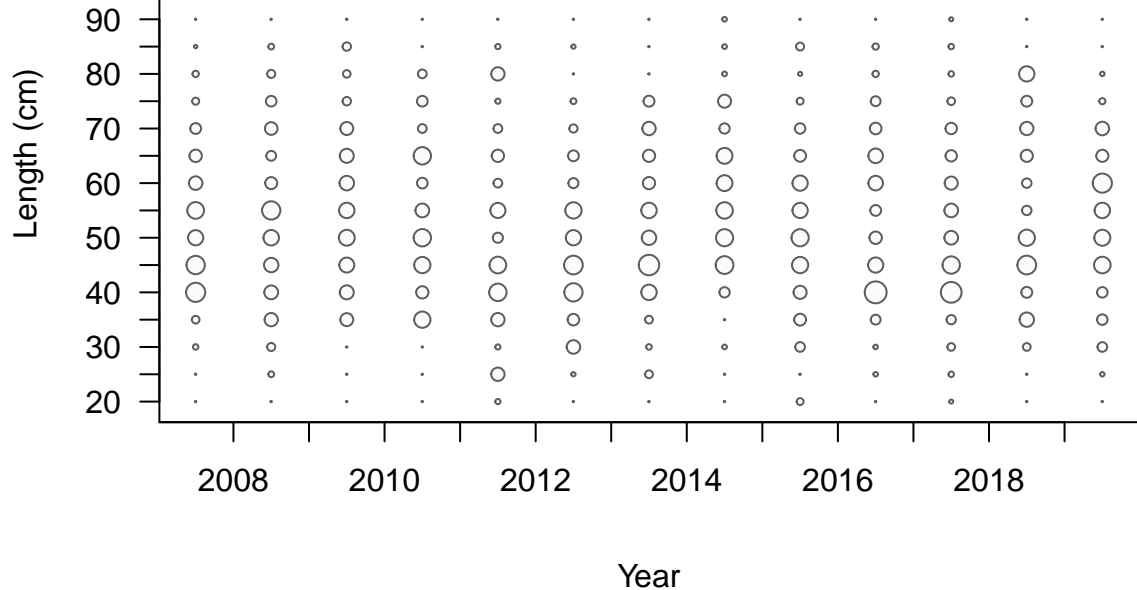
FISHERY

Sum of N input=1078

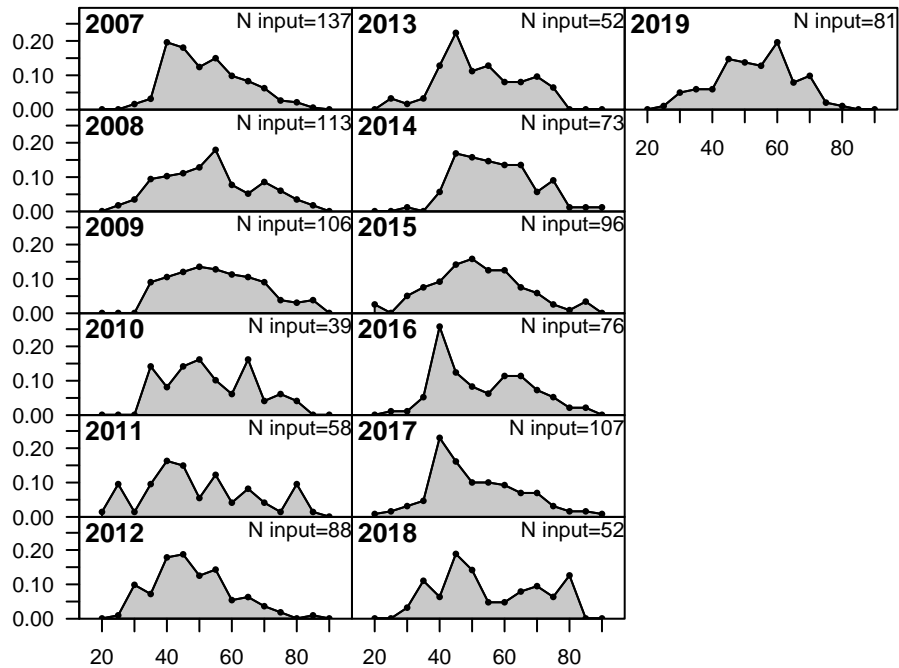


FISHERY

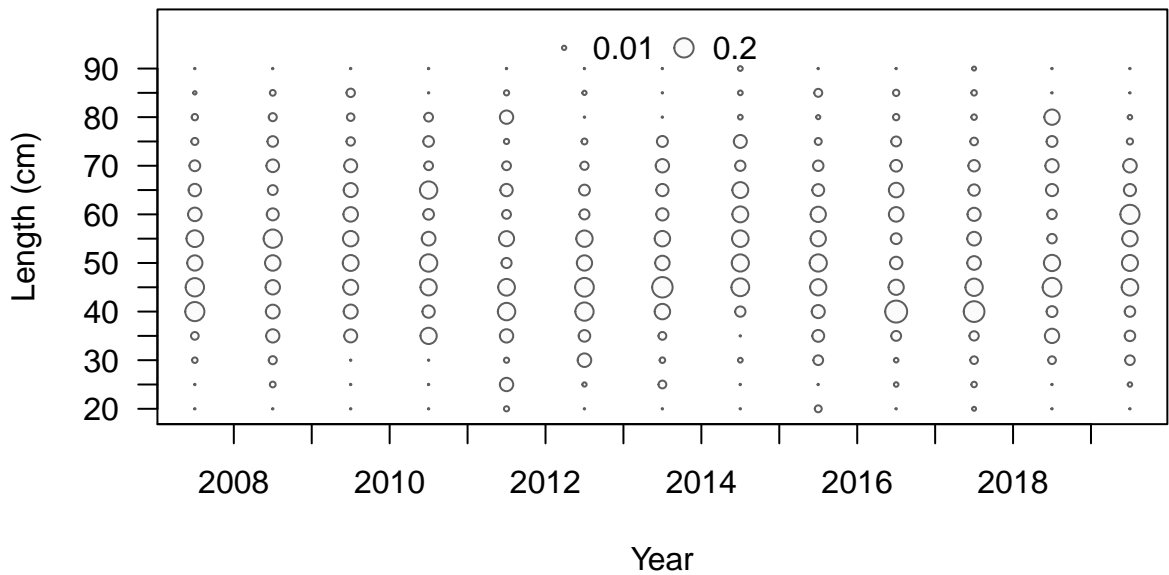
◦ 0.01 ○ 0.2



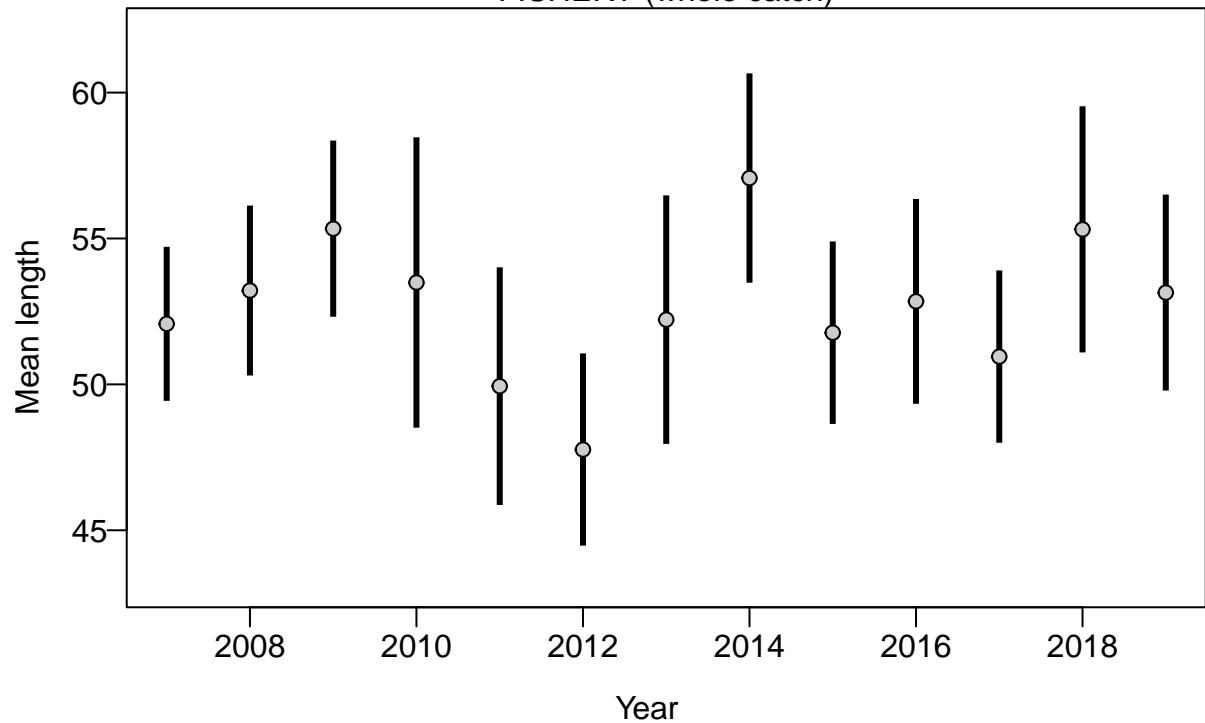
Proportion



Length (cm)

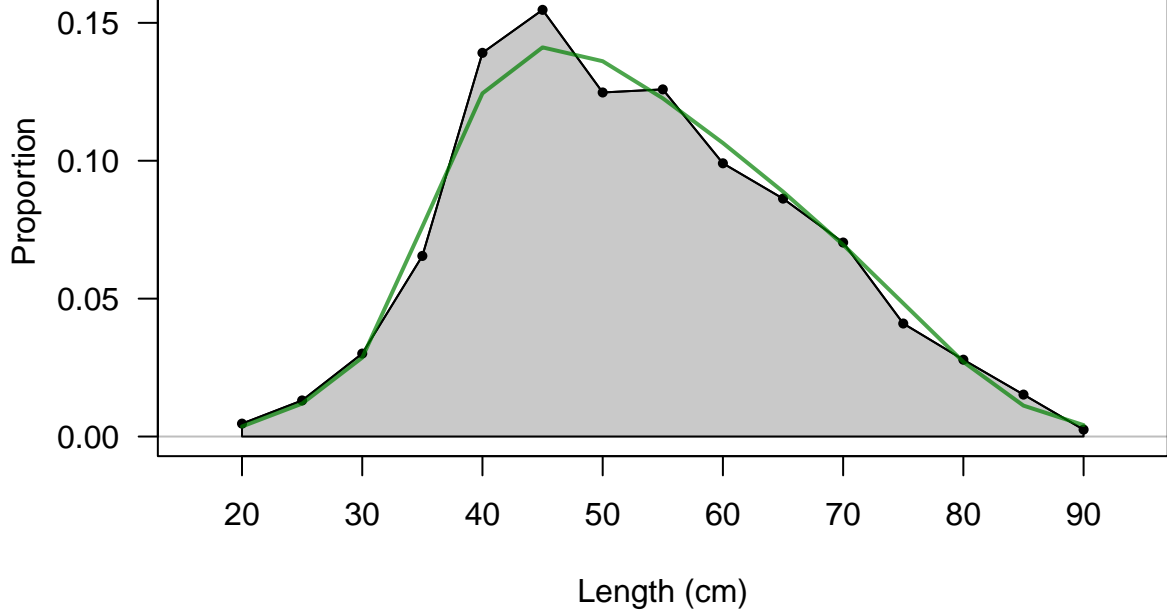


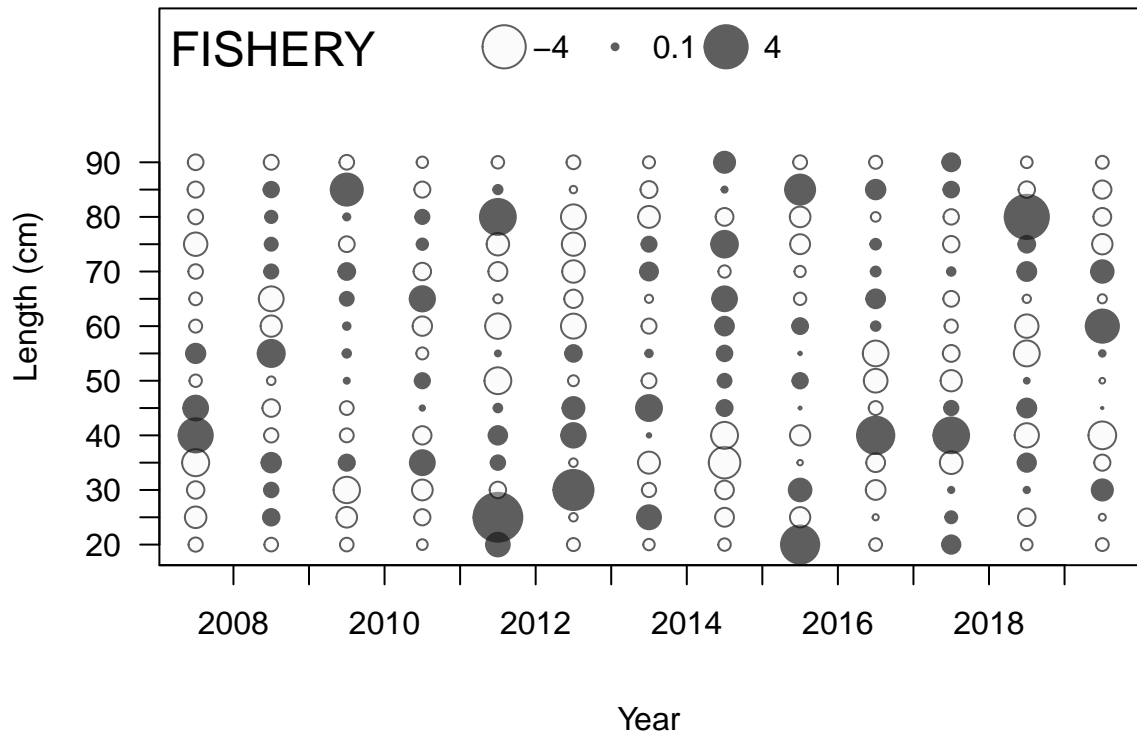
FISHERY (whole catch)

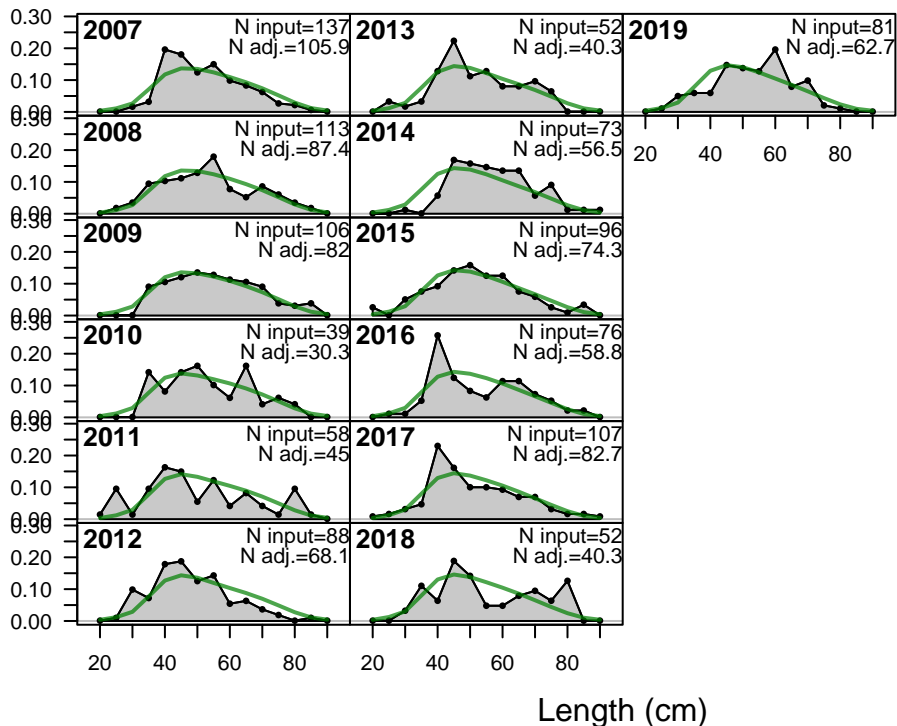


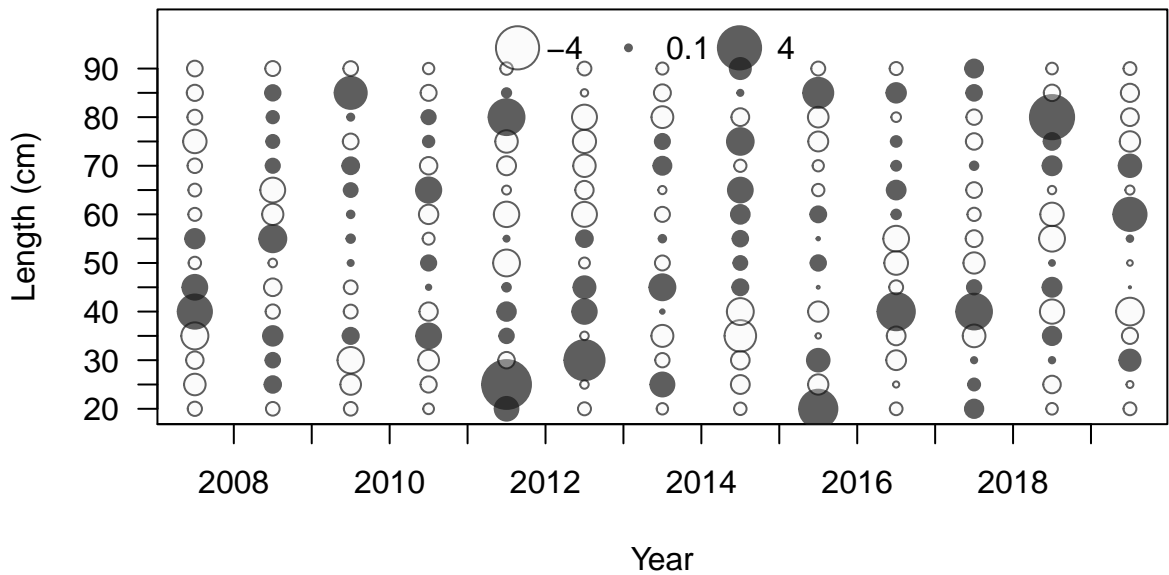
FISHERY

Sum of N input=1078
Sum of N adj.=834.2

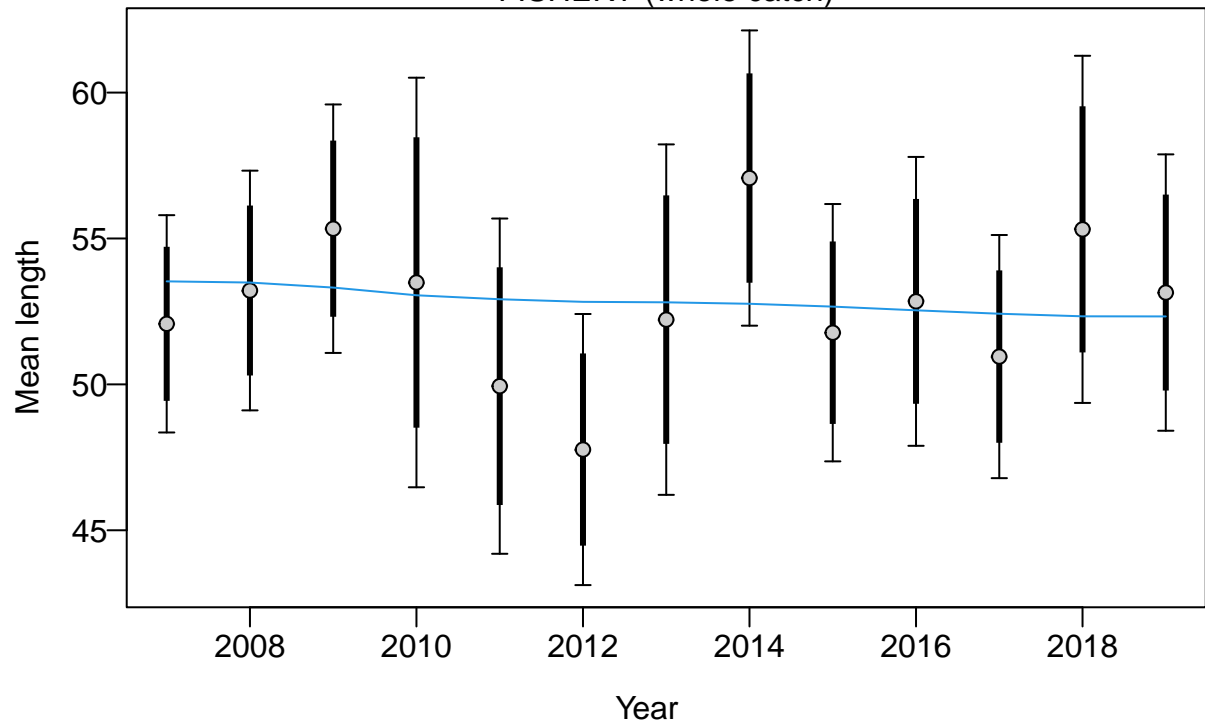


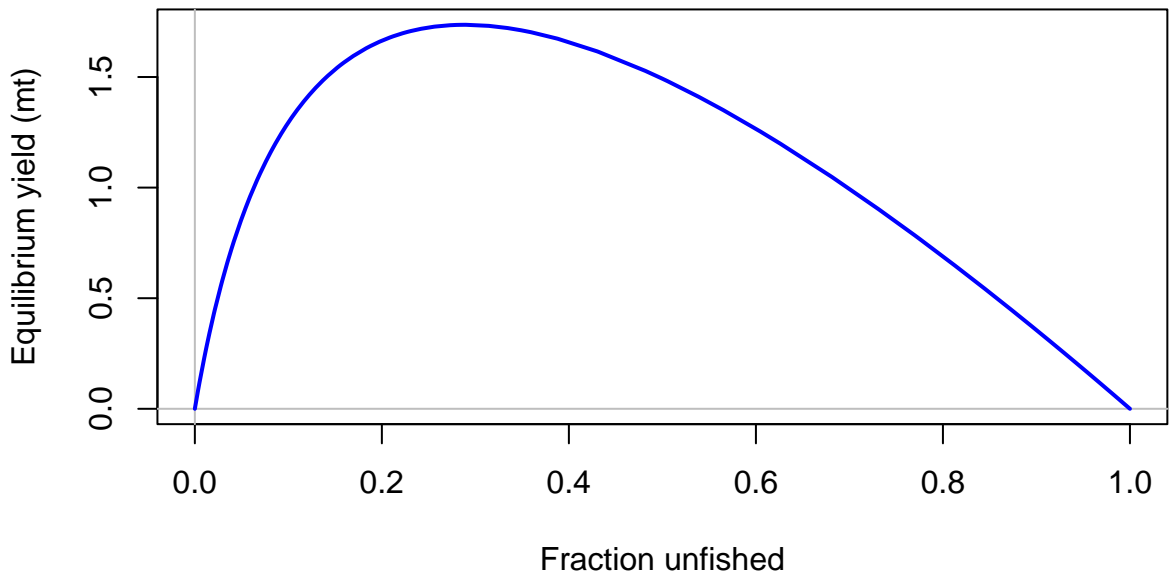


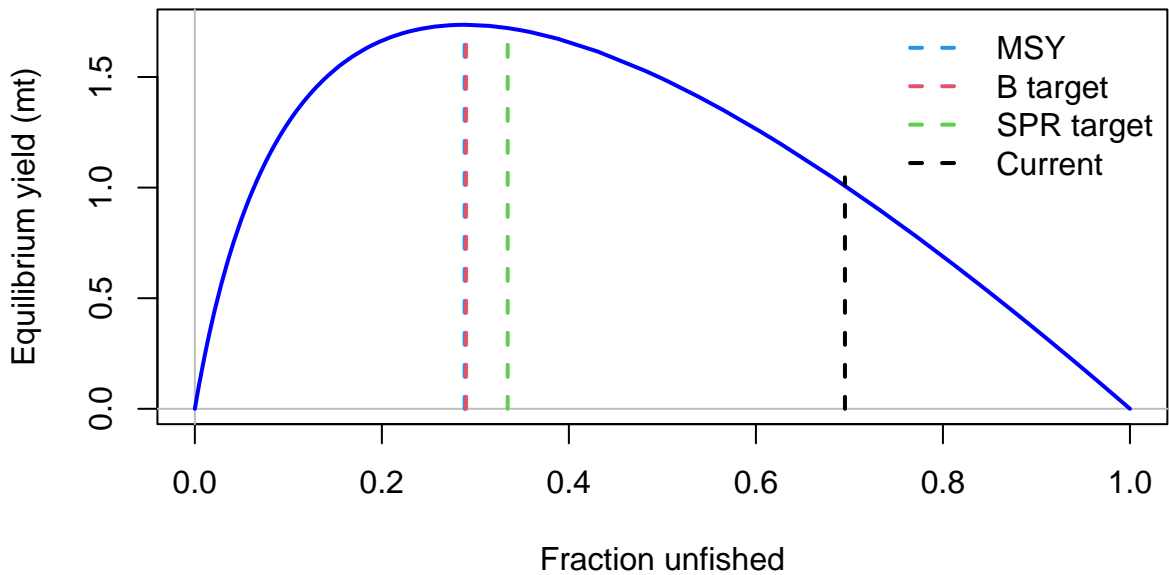


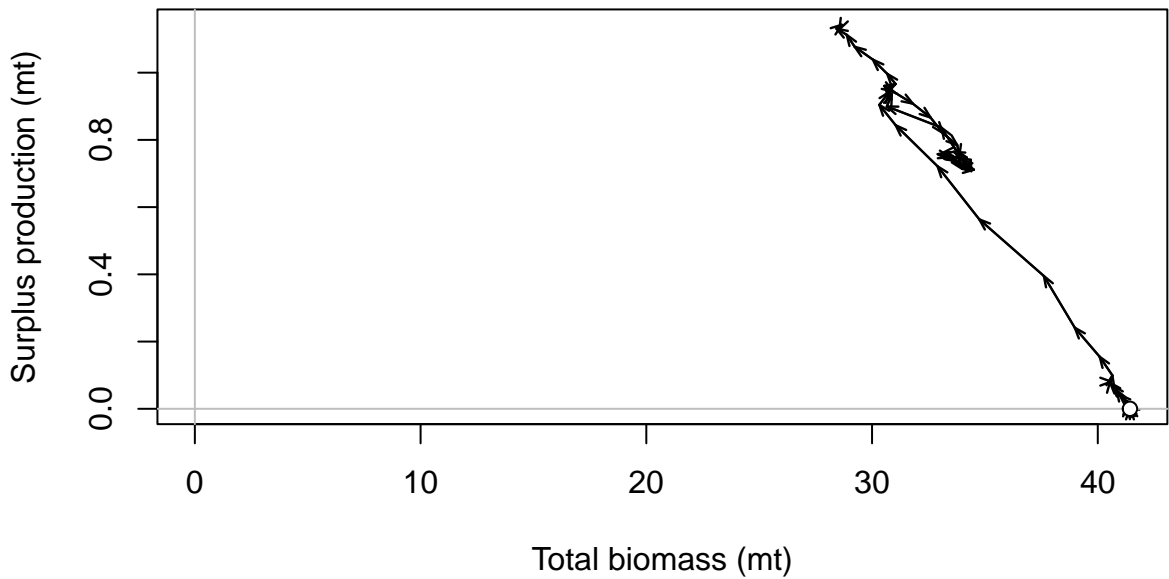


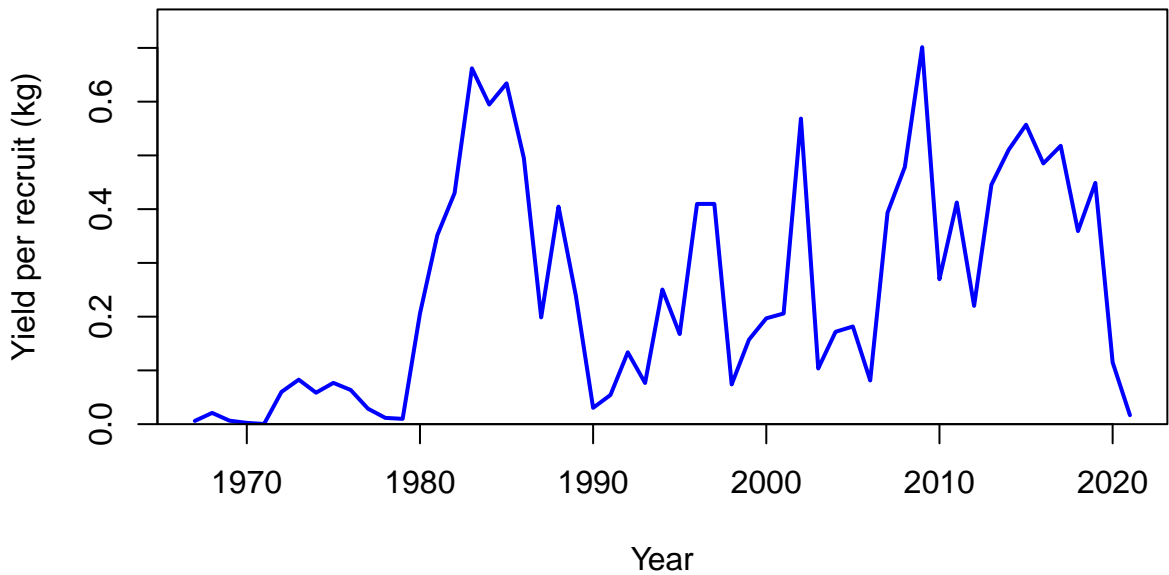
FISHERY (whole catch)

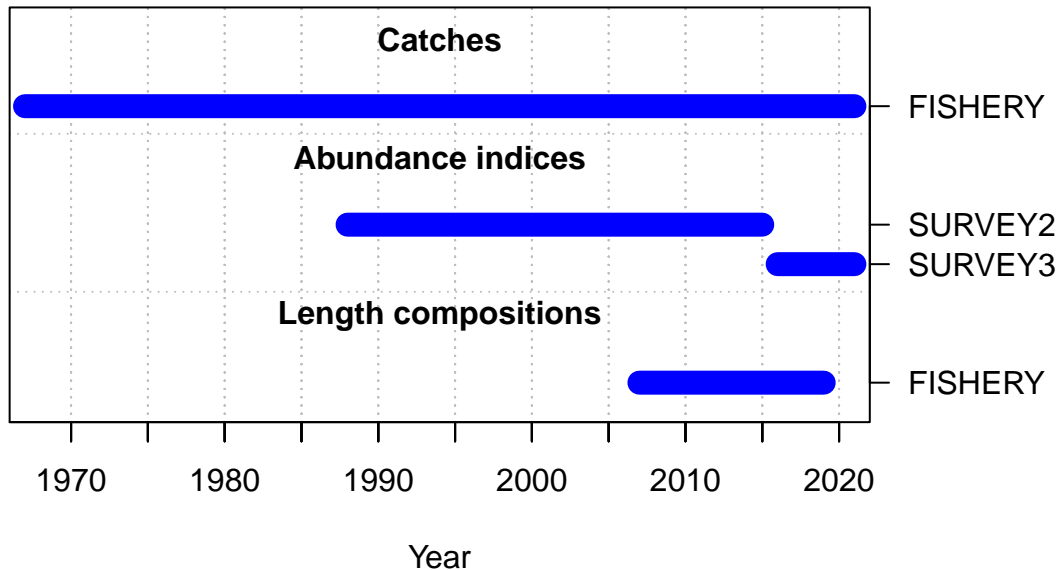


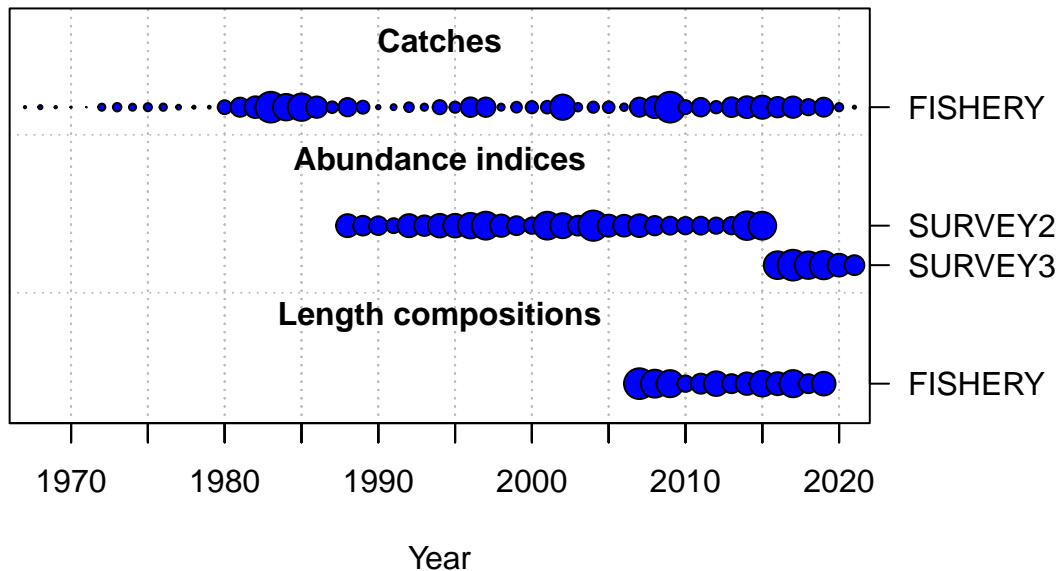


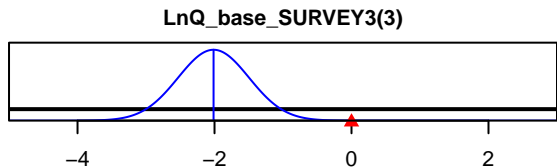
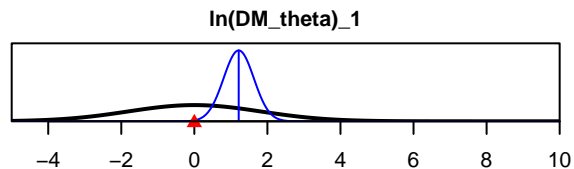
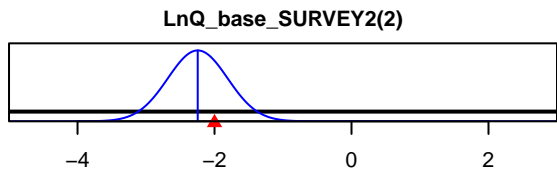
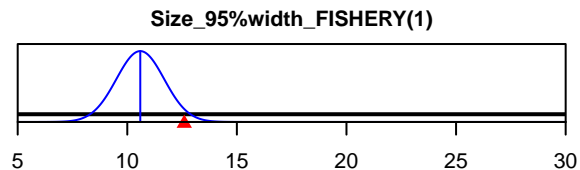
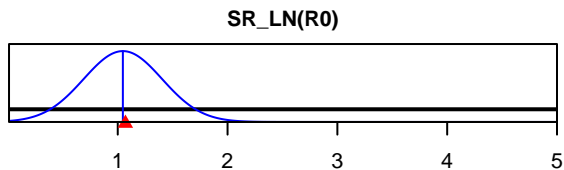
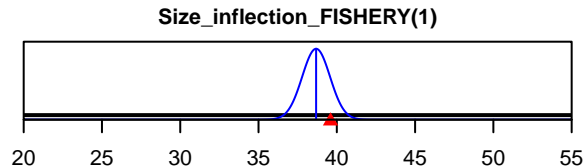
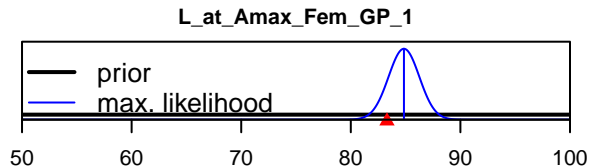












Parameter value