

Plots created using the 'r4ss' package in R
Stock Synthesis version: 3.30.19.0
StartTime: Thu Aug 25 15:14:29 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

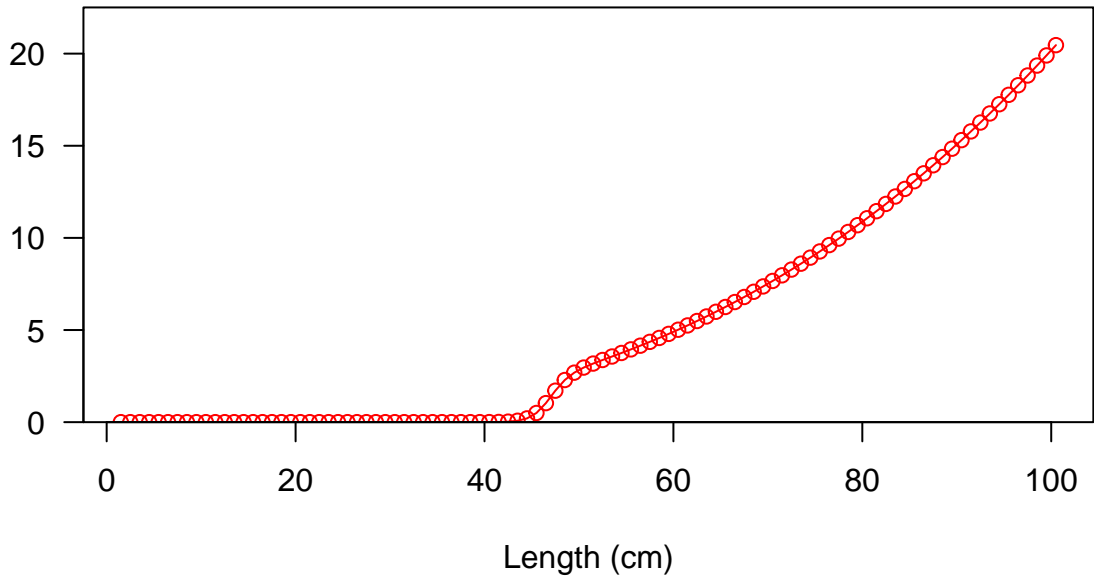
80

100

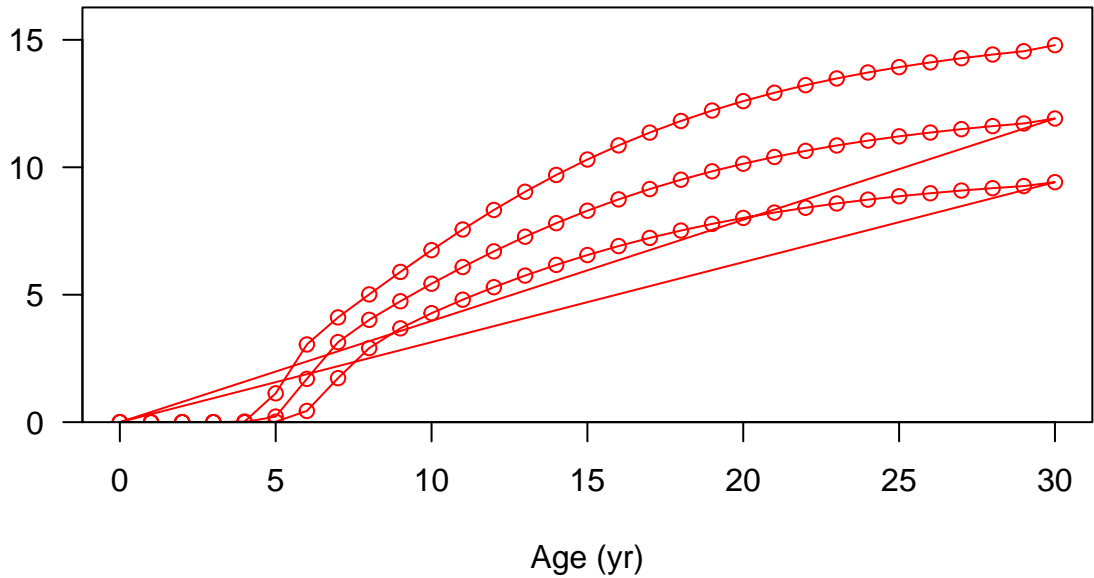
Female length (cm)



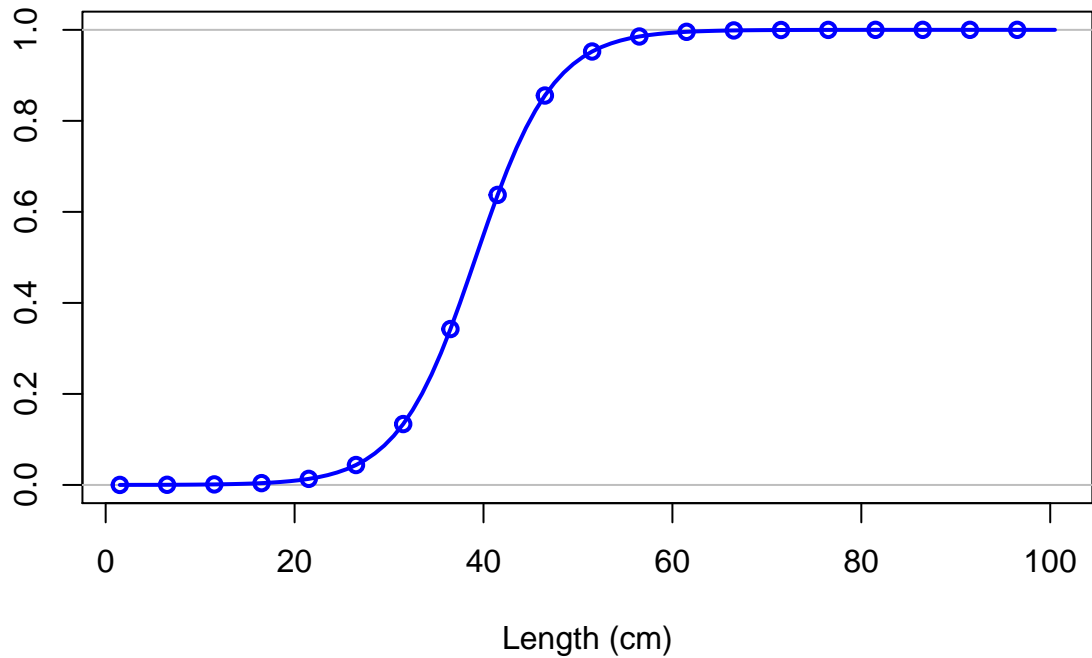
Spawning output



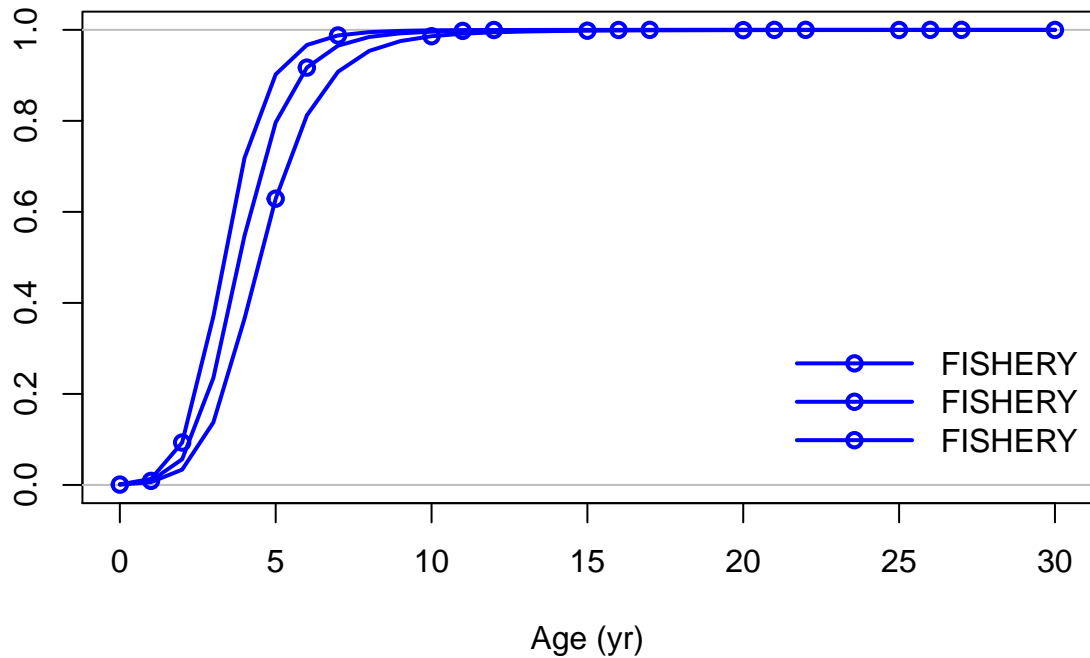
Spawning output



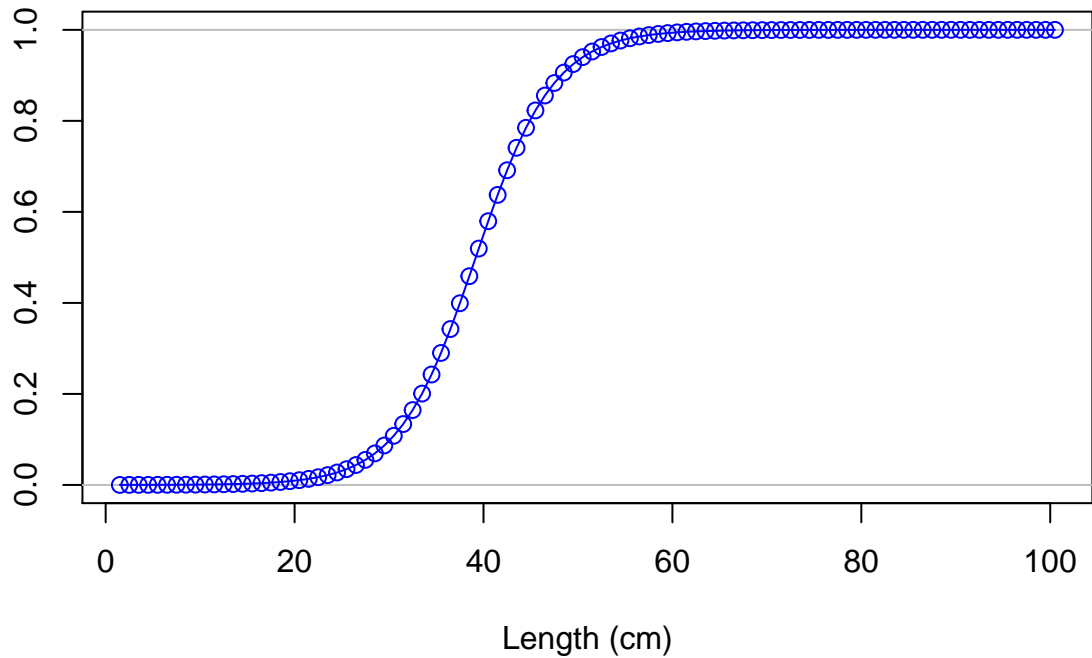
Selectivity

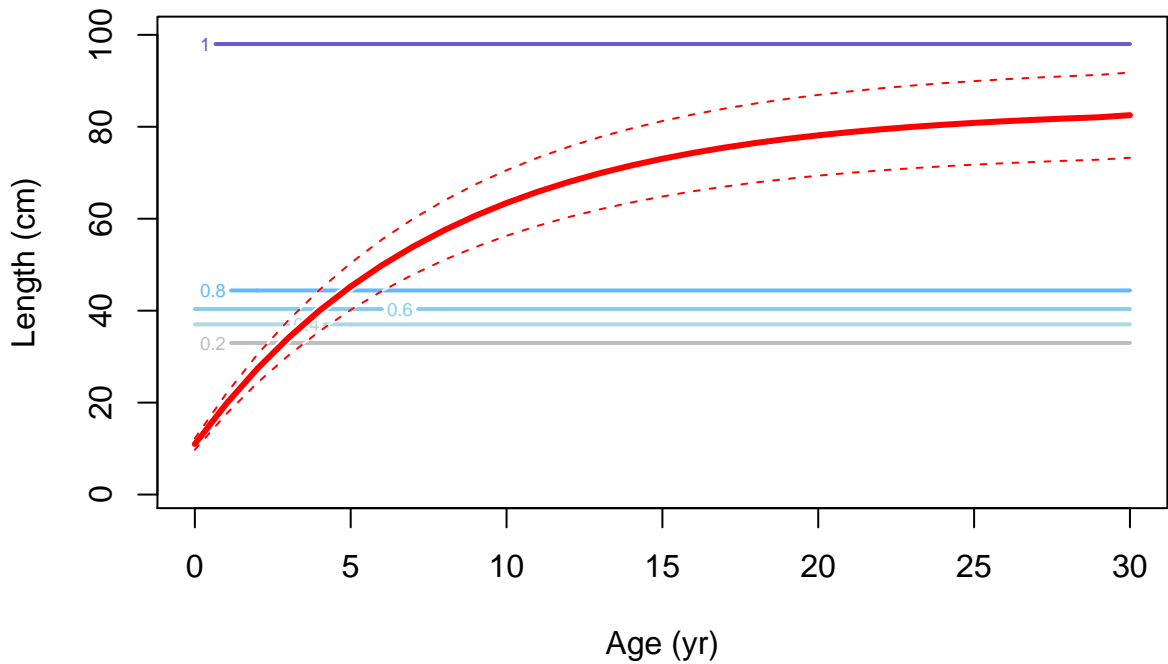


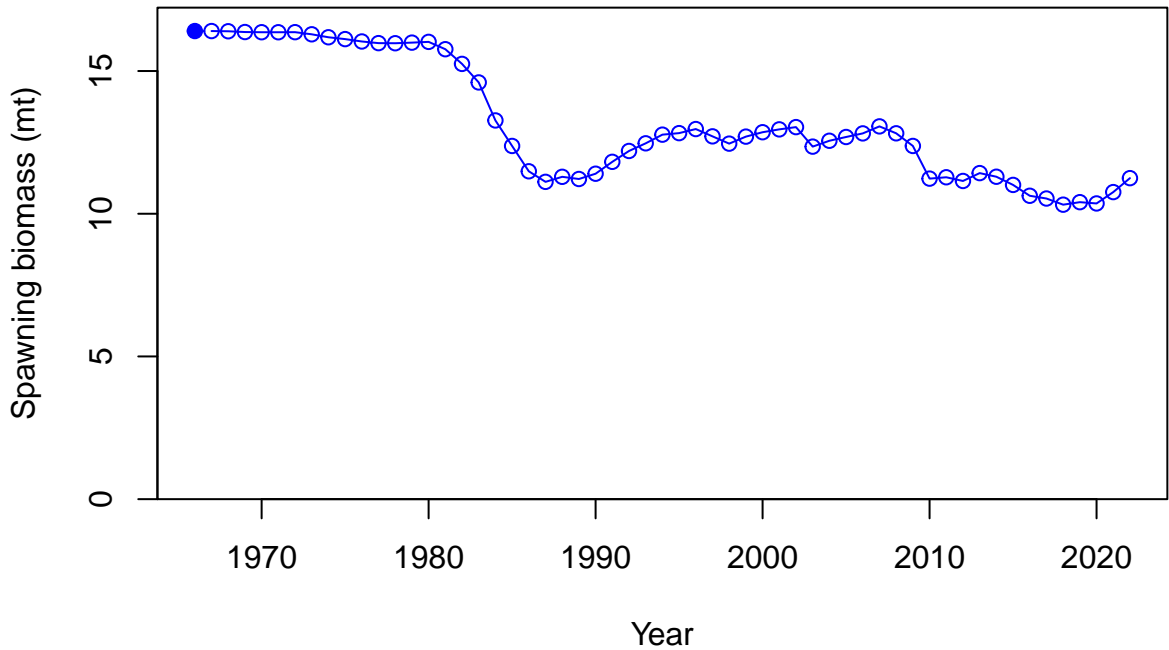
Selectivity

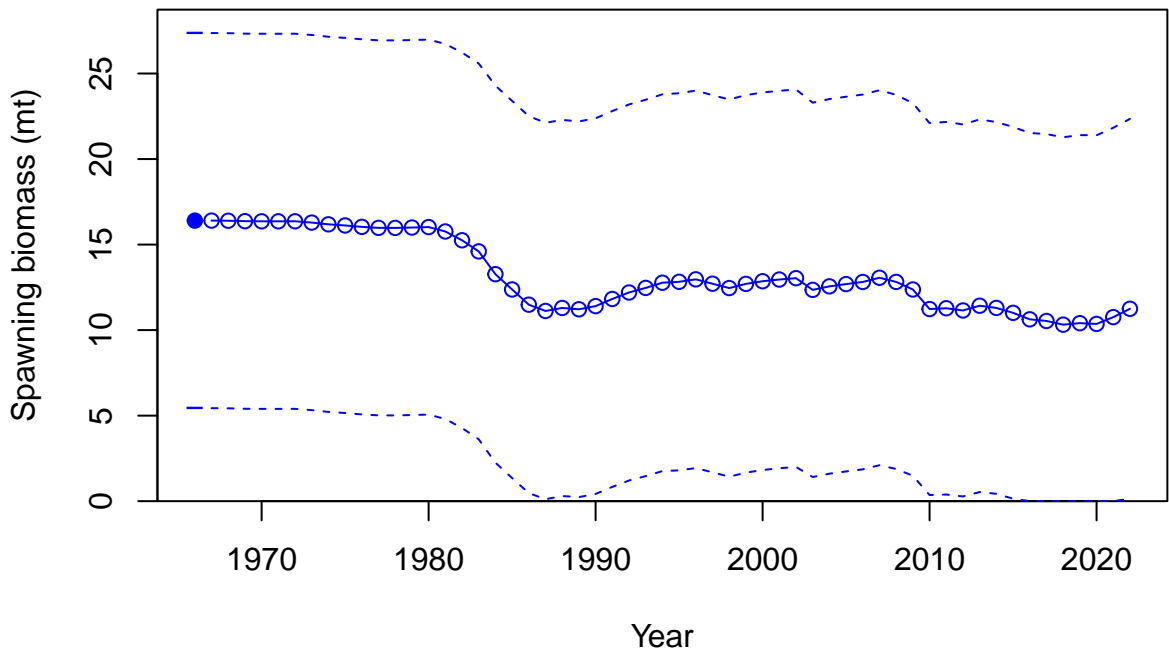


Selectivity

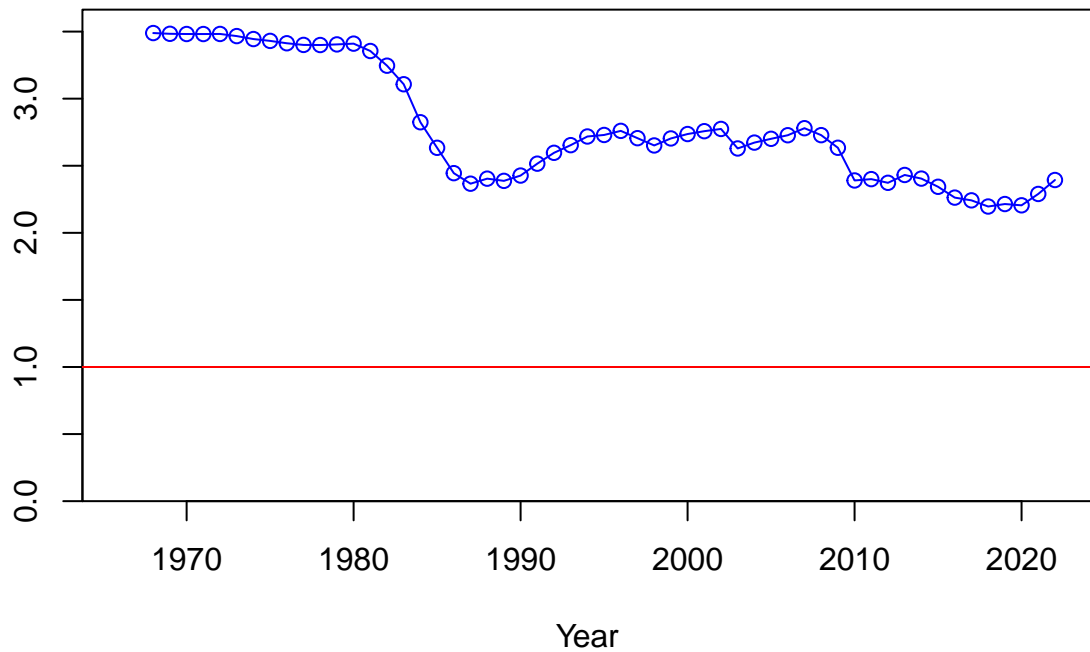




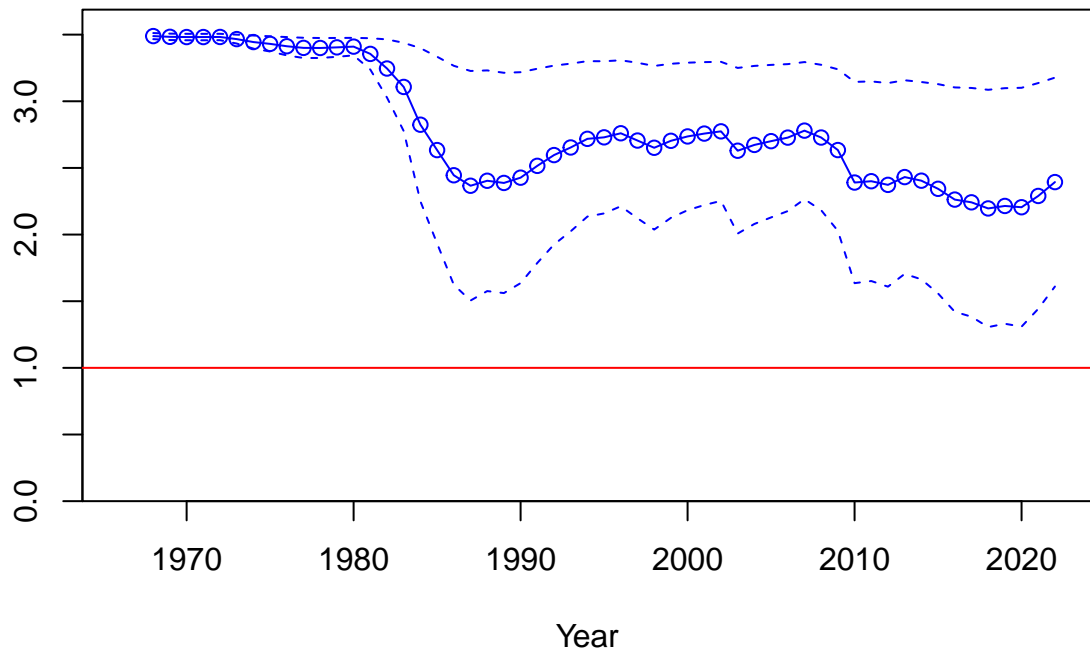


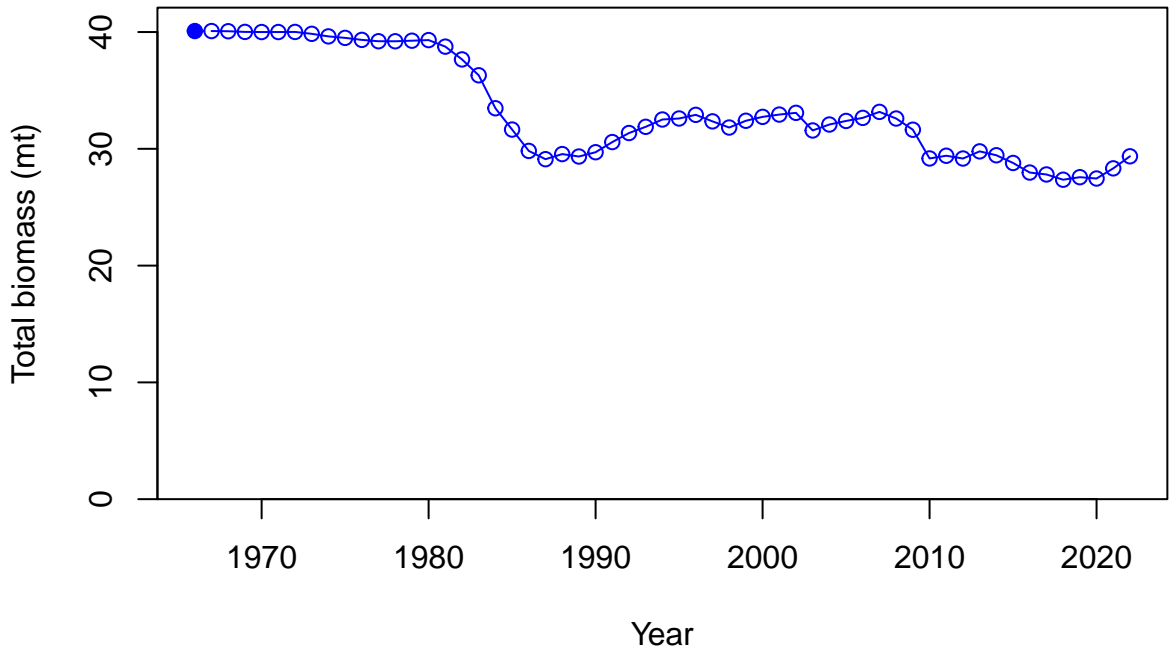


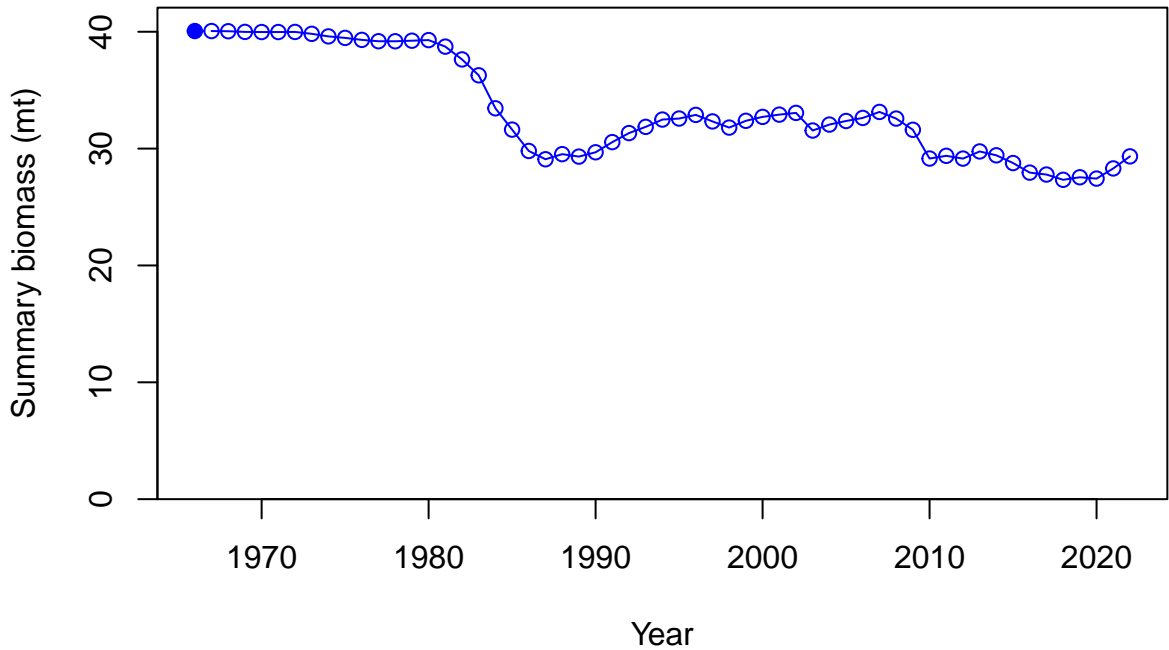
Relative spawning biomass: B/B_{MSY}

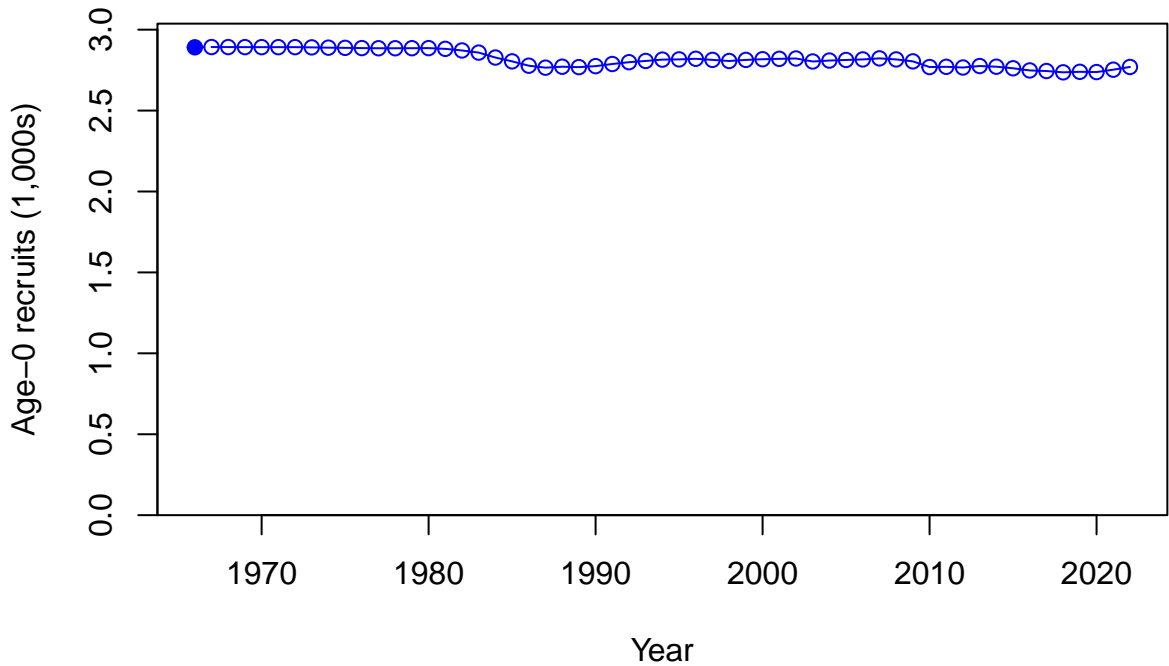


Relative spawning biomass: B/B_{MSY}

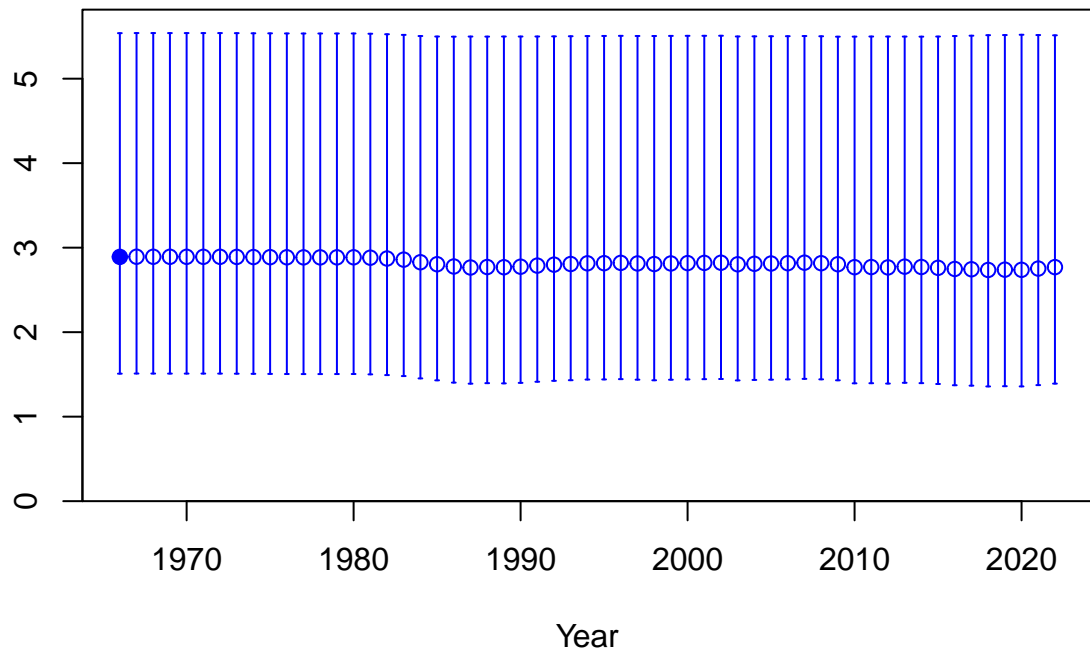




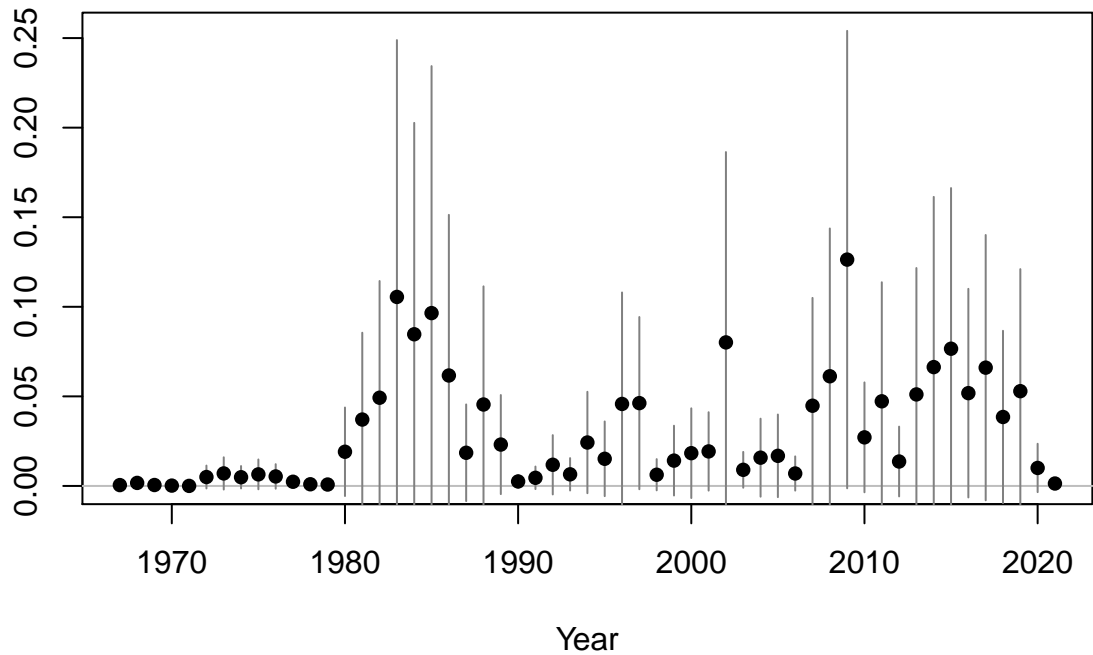


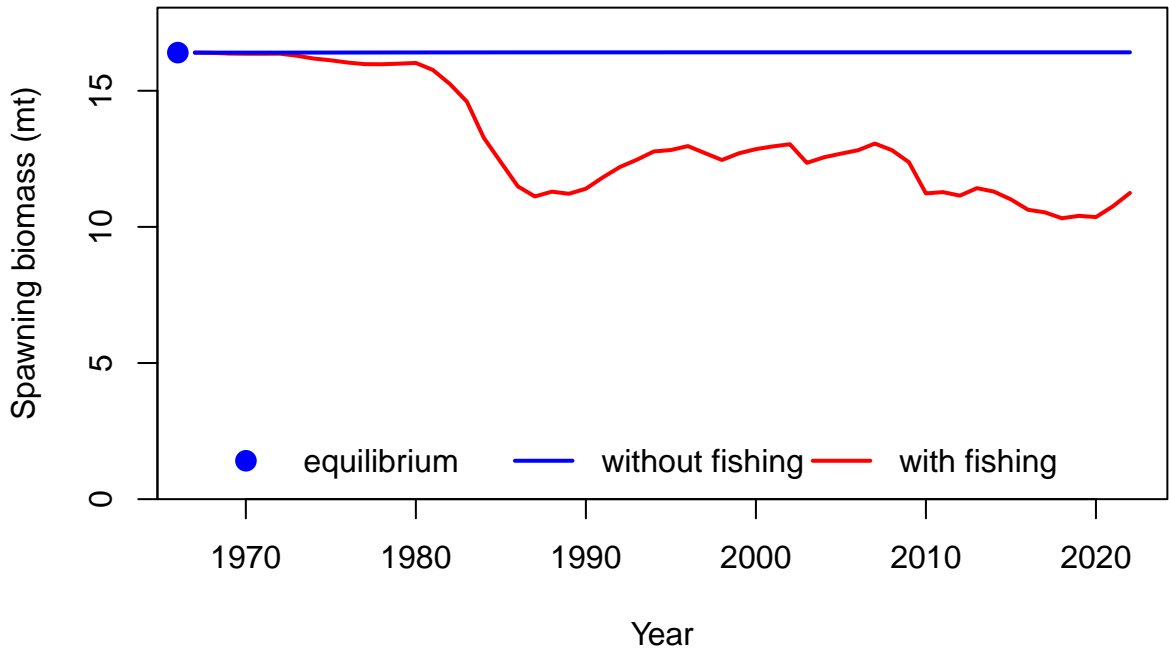


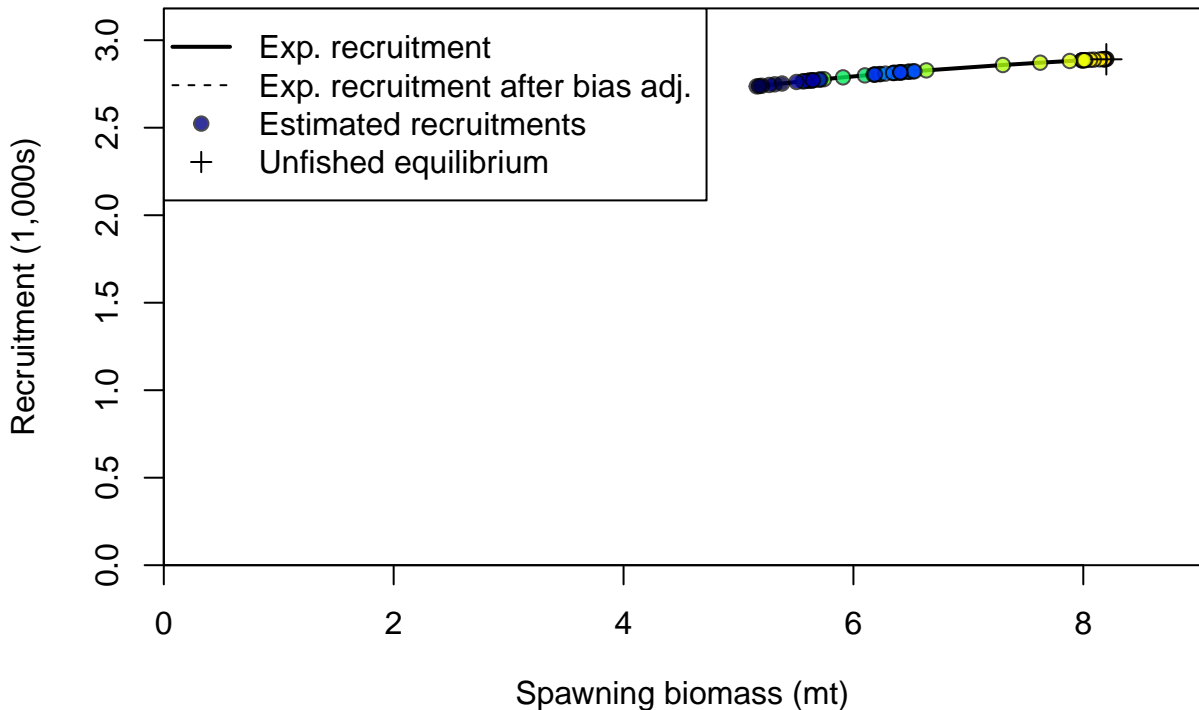
Age-0 recruits (1,000s)

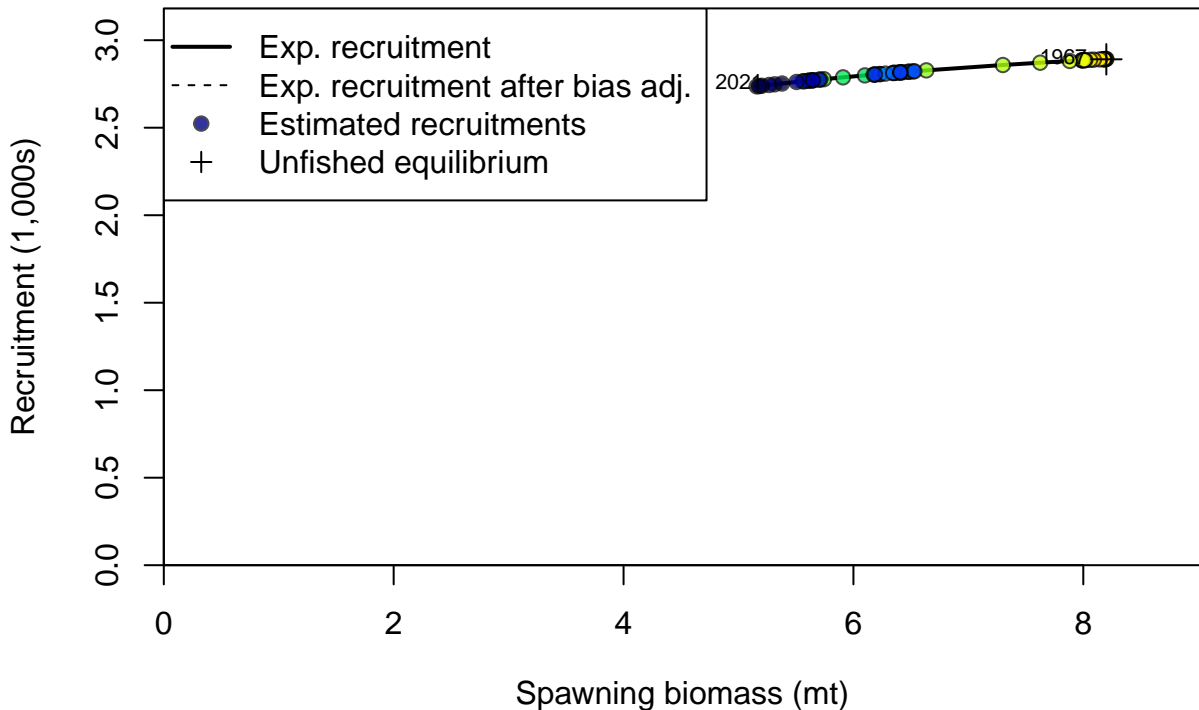


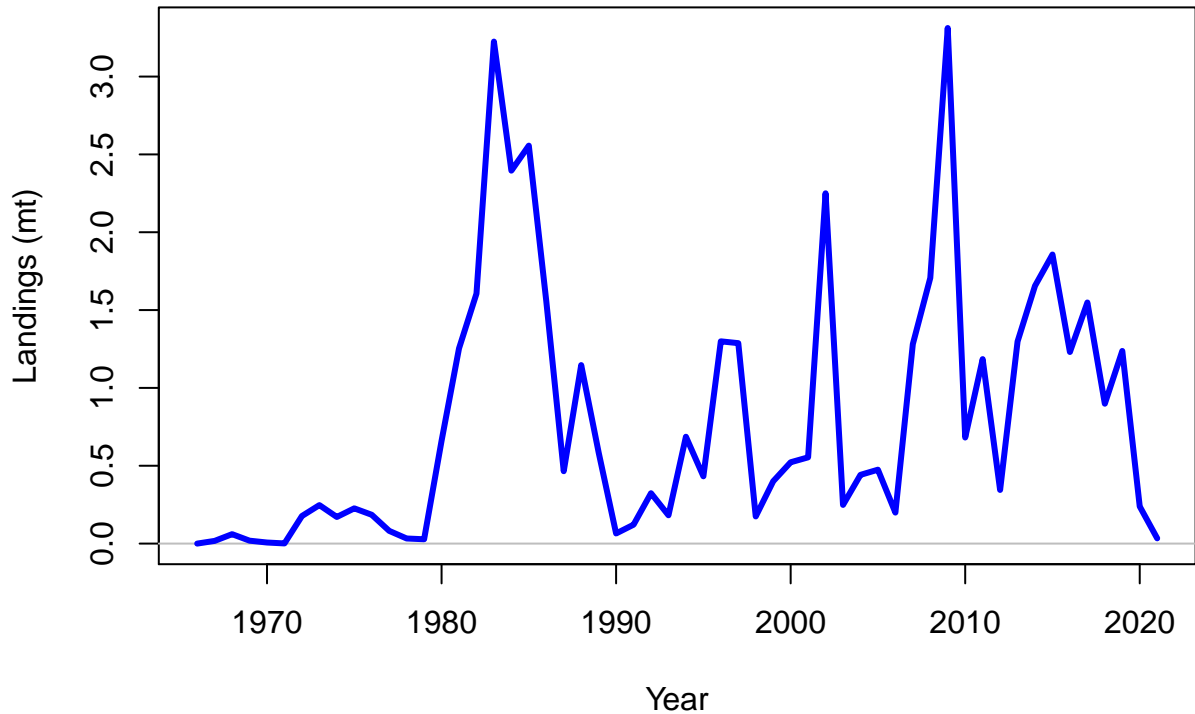
Summary Fishing Mortality

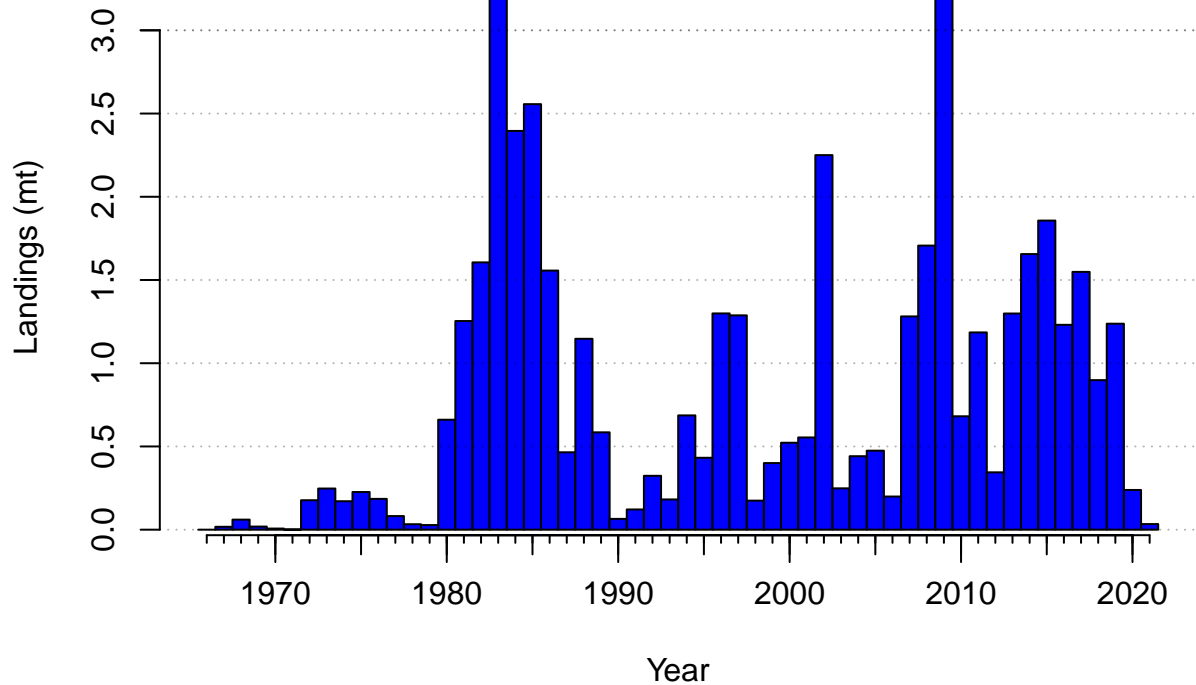


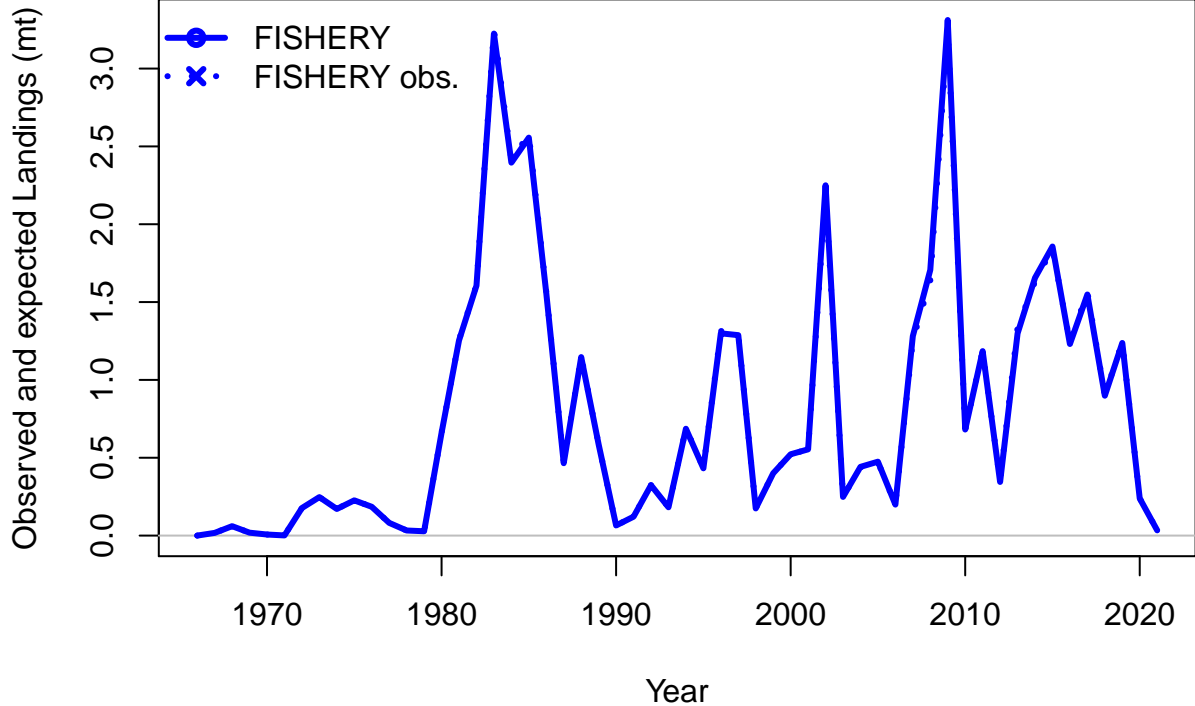


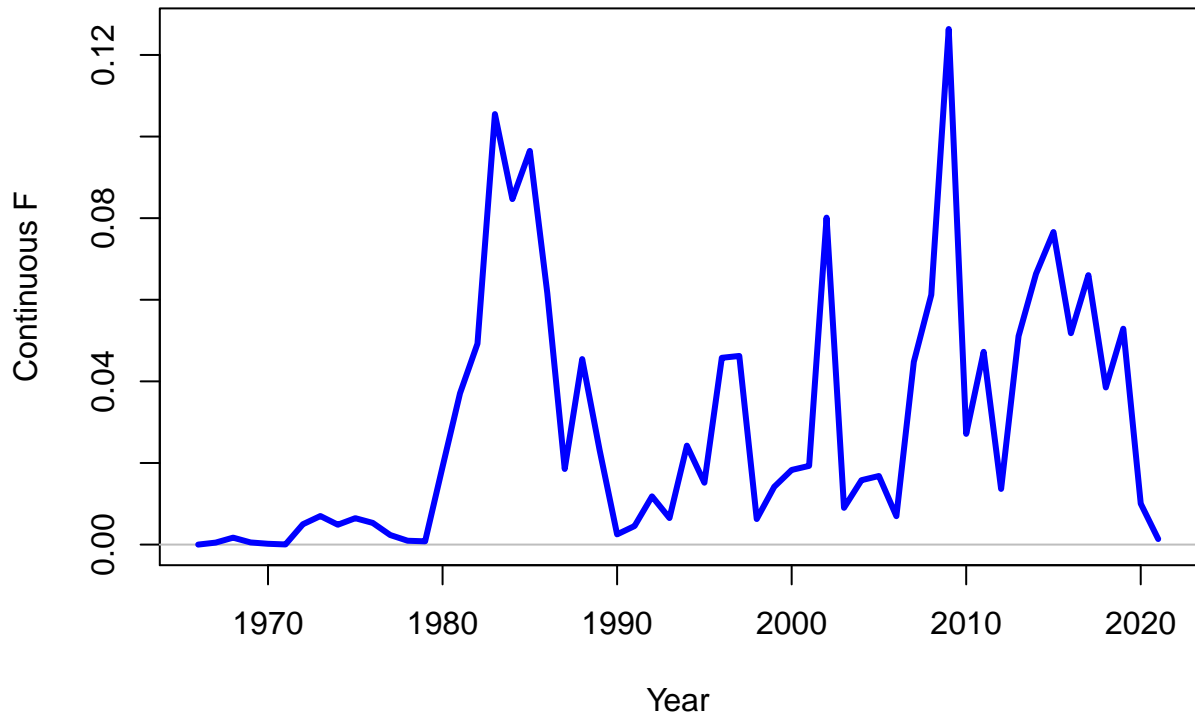




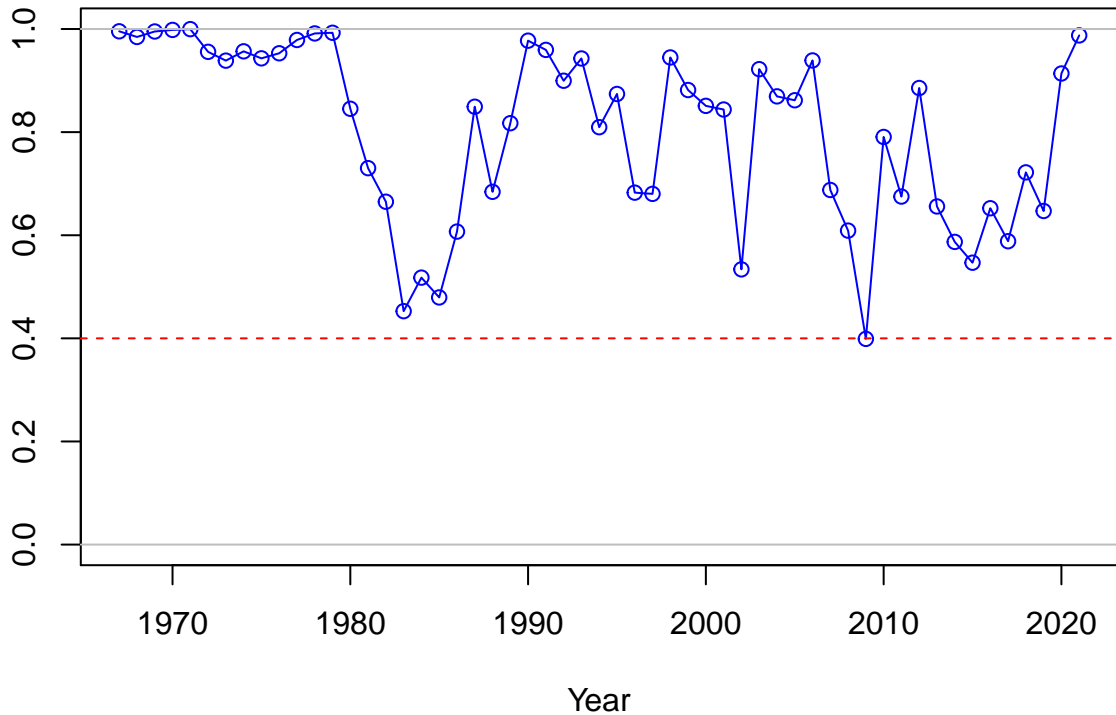




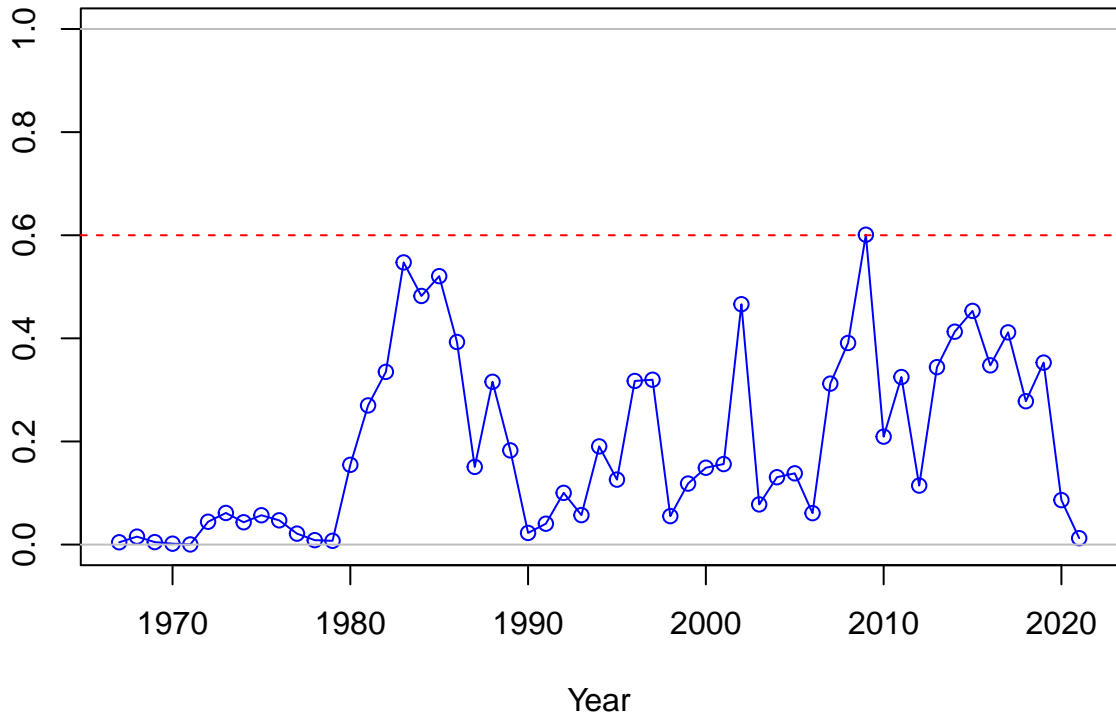




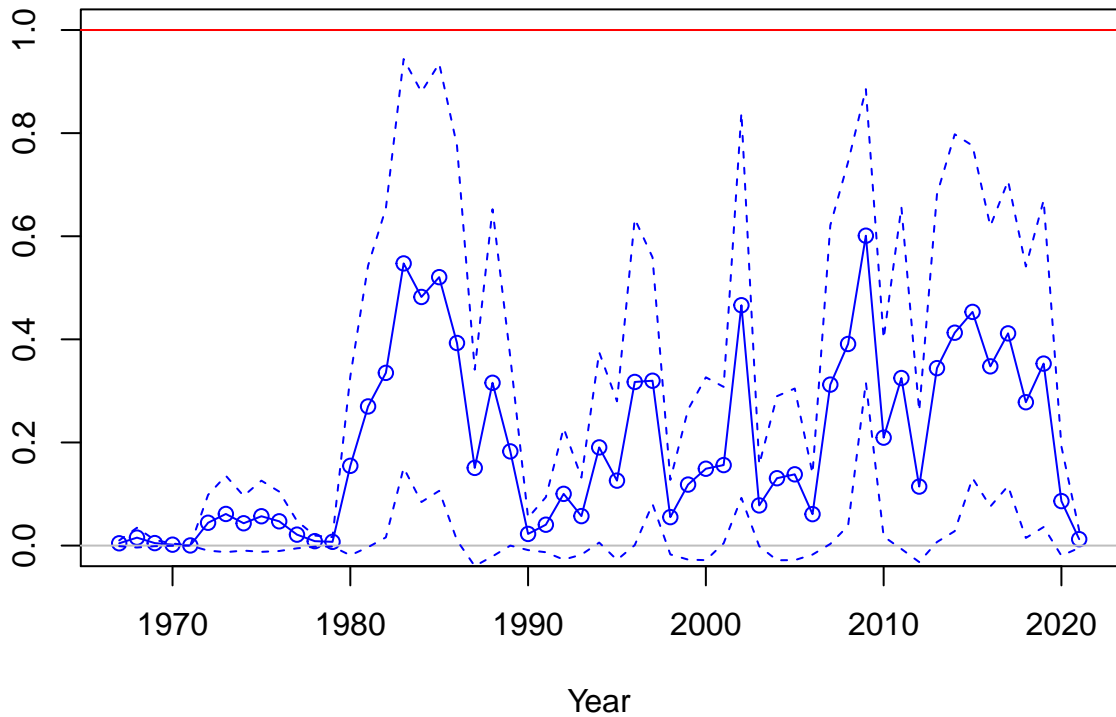
SPR



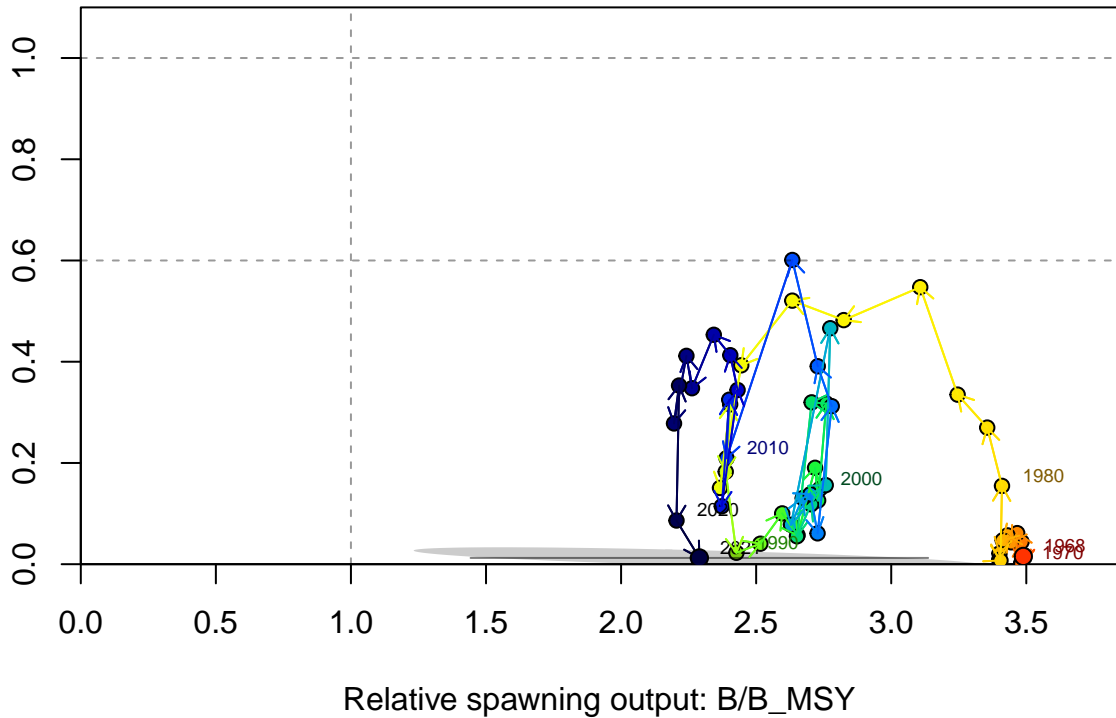
1-SPR



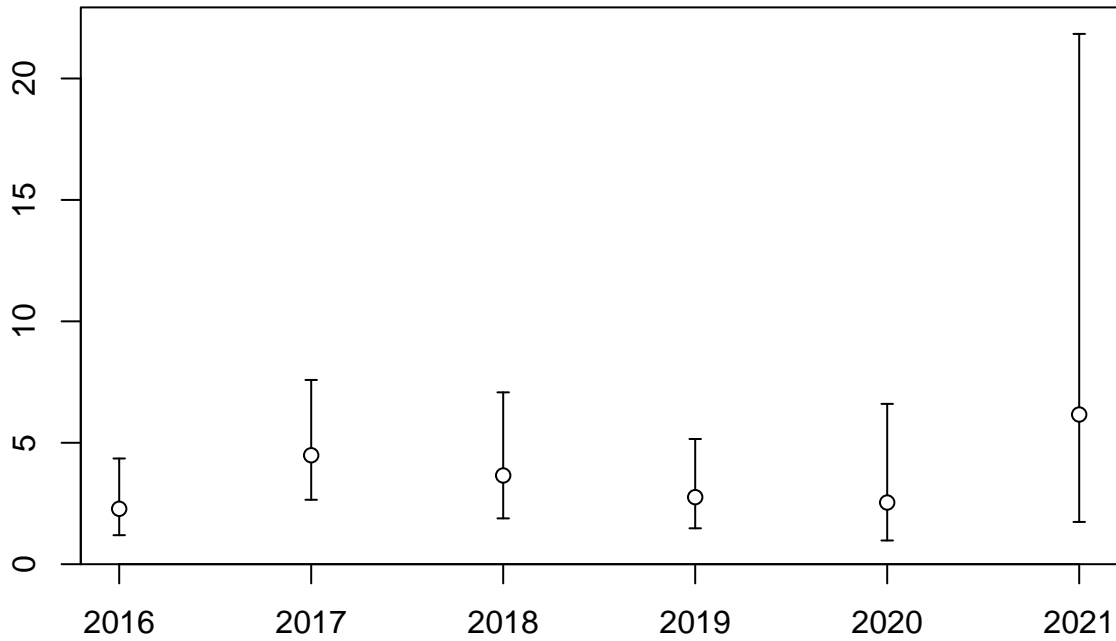
Fishing intensity: 1-SPR



Fishing intensity: 1-SPR

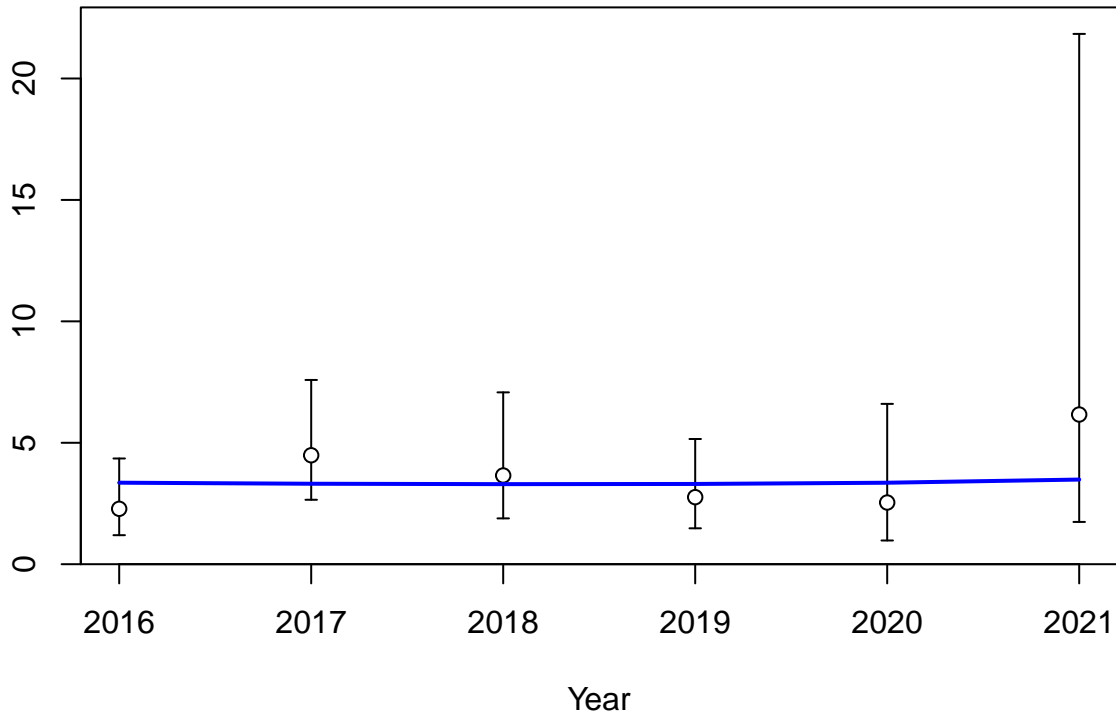


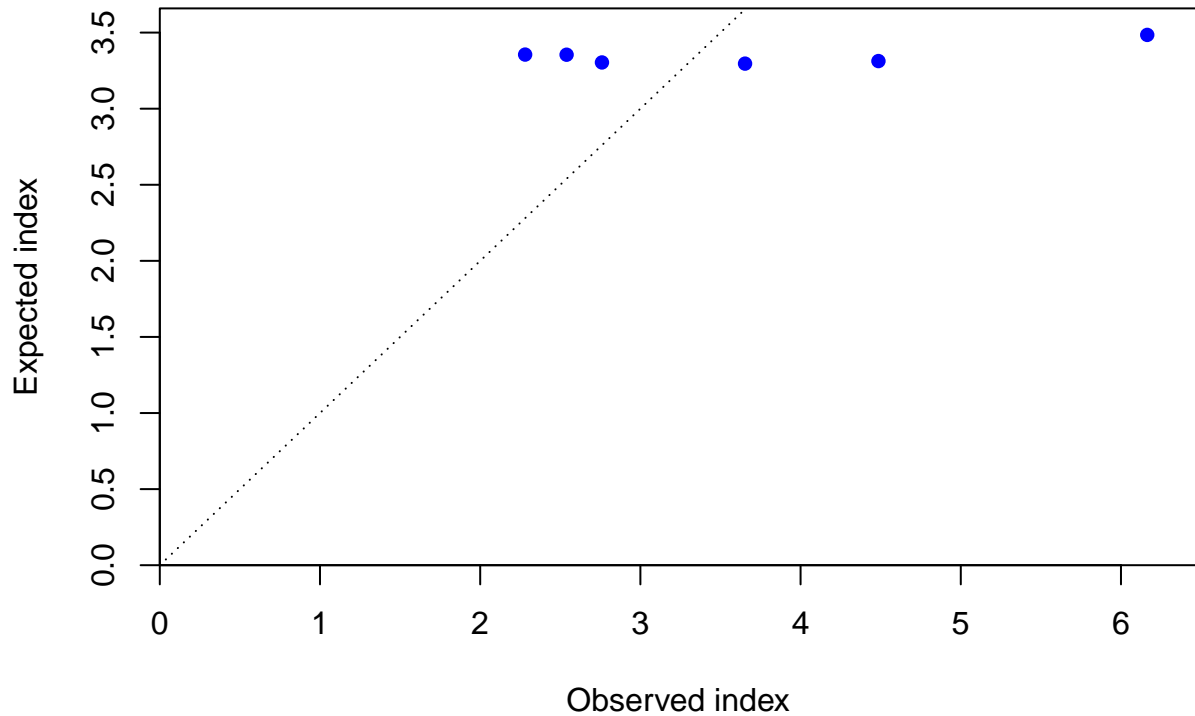
Index



Year

Index





Log index

3.0
2.5
2.0
1.5
1.0
0.5
0.0

2016

2017

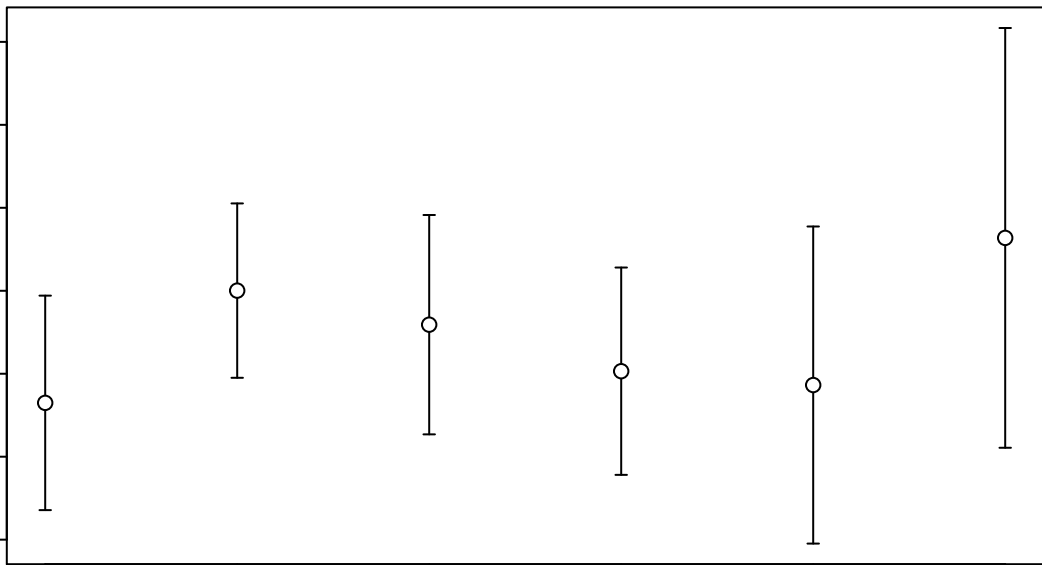
2018

2019

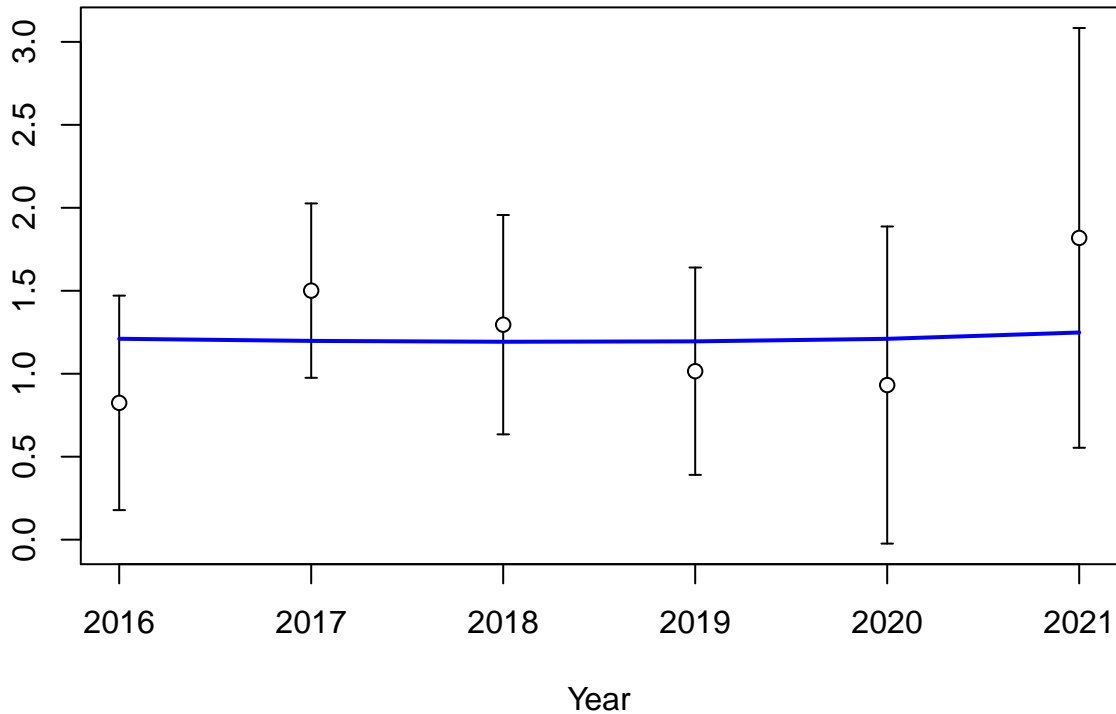
2020

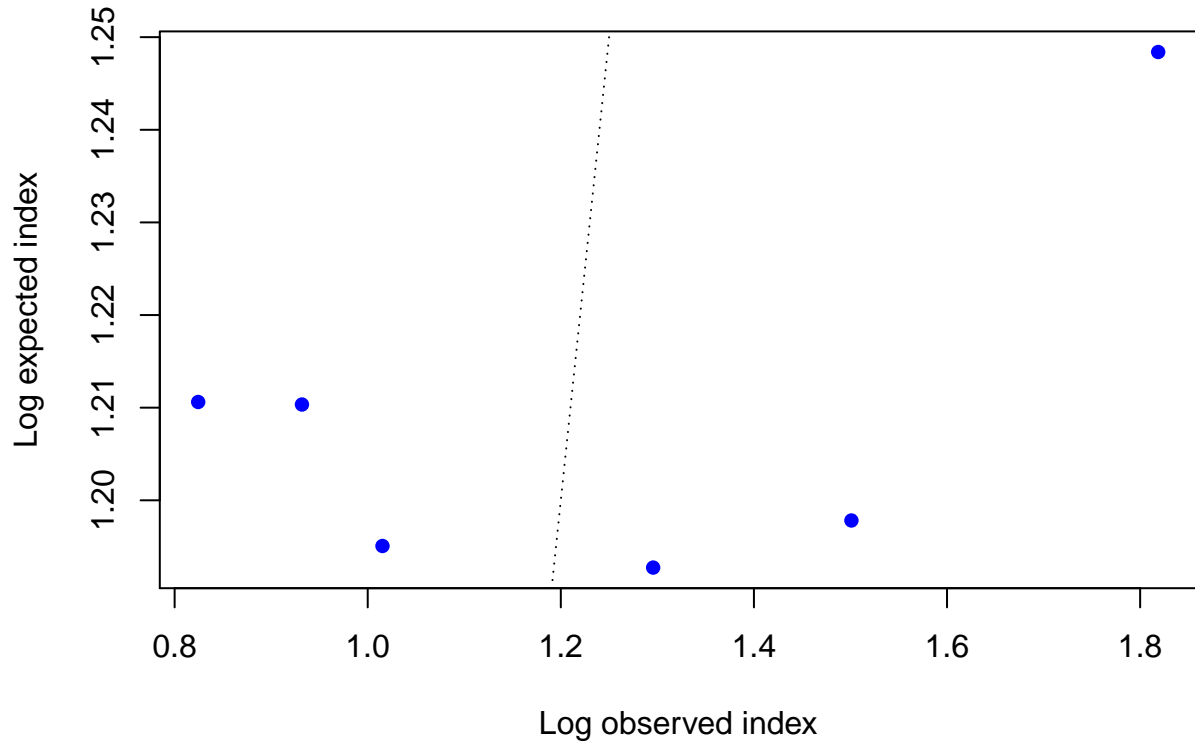
2021

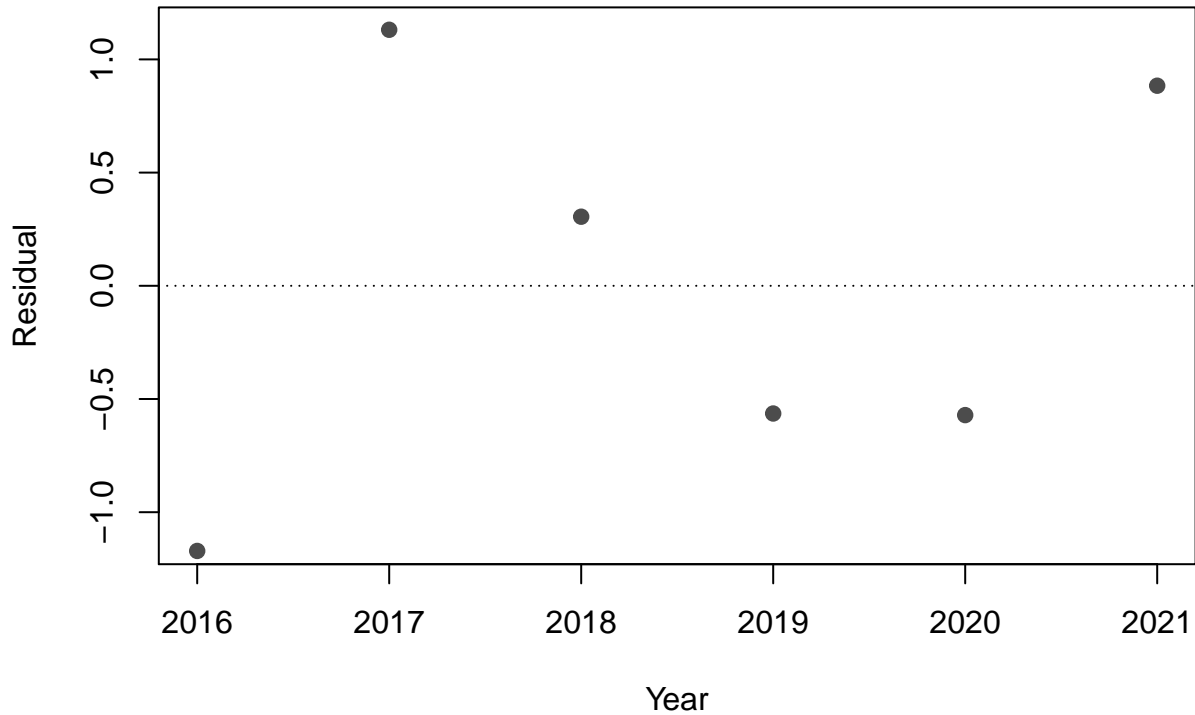
Year



Log index







Deviation

0.4
0.2
0.0
-0.2
-0.4

2016

2017

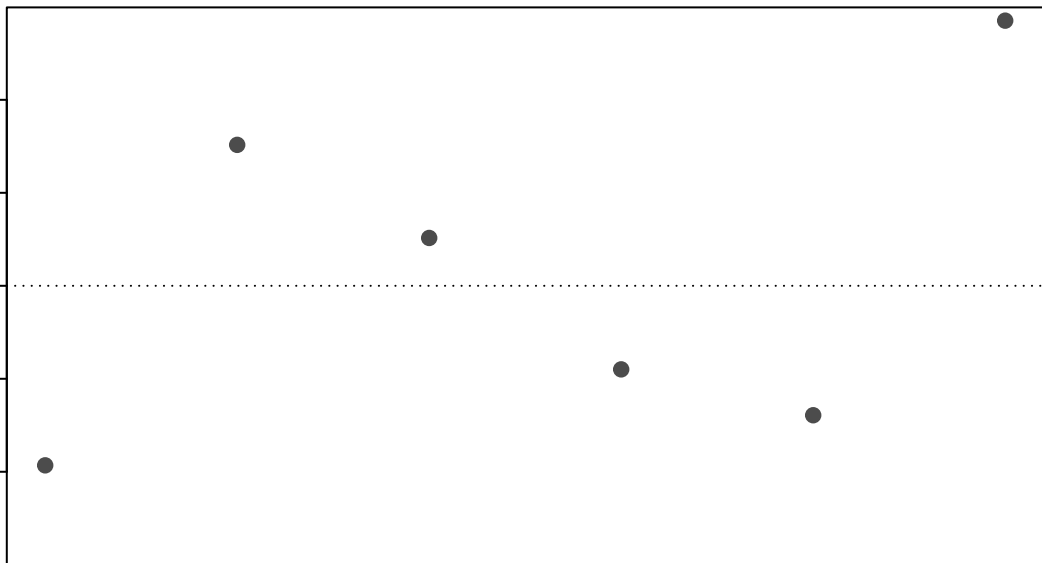
2018

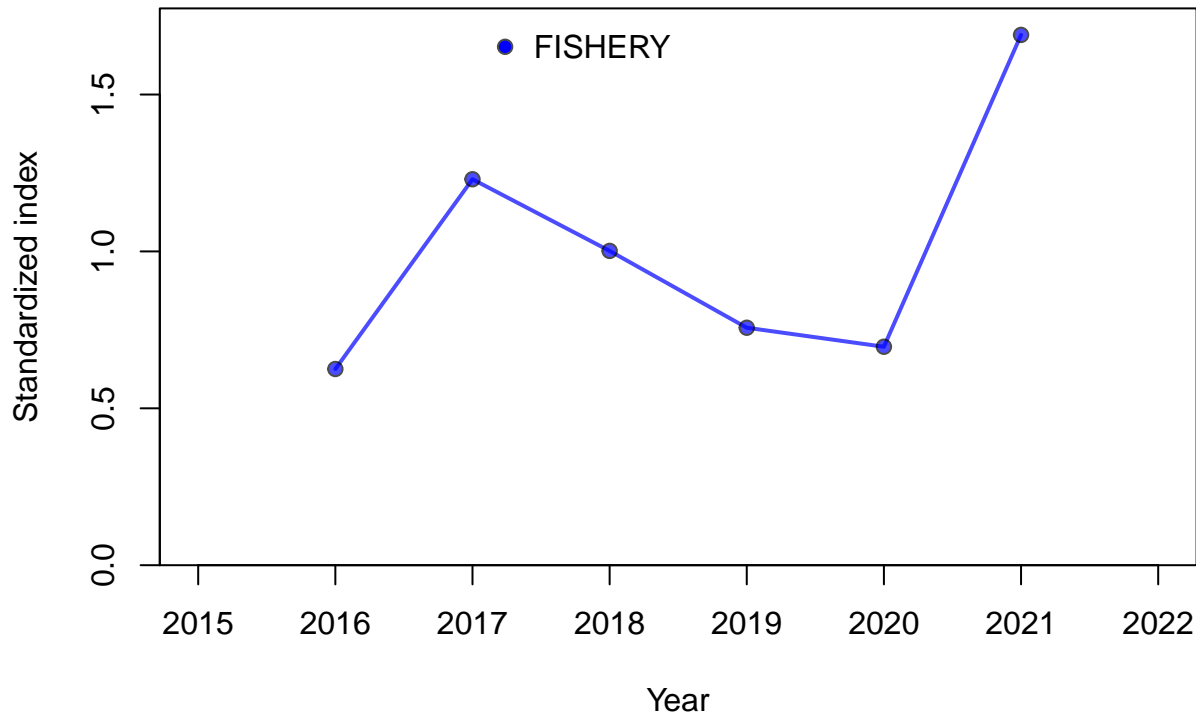
2019

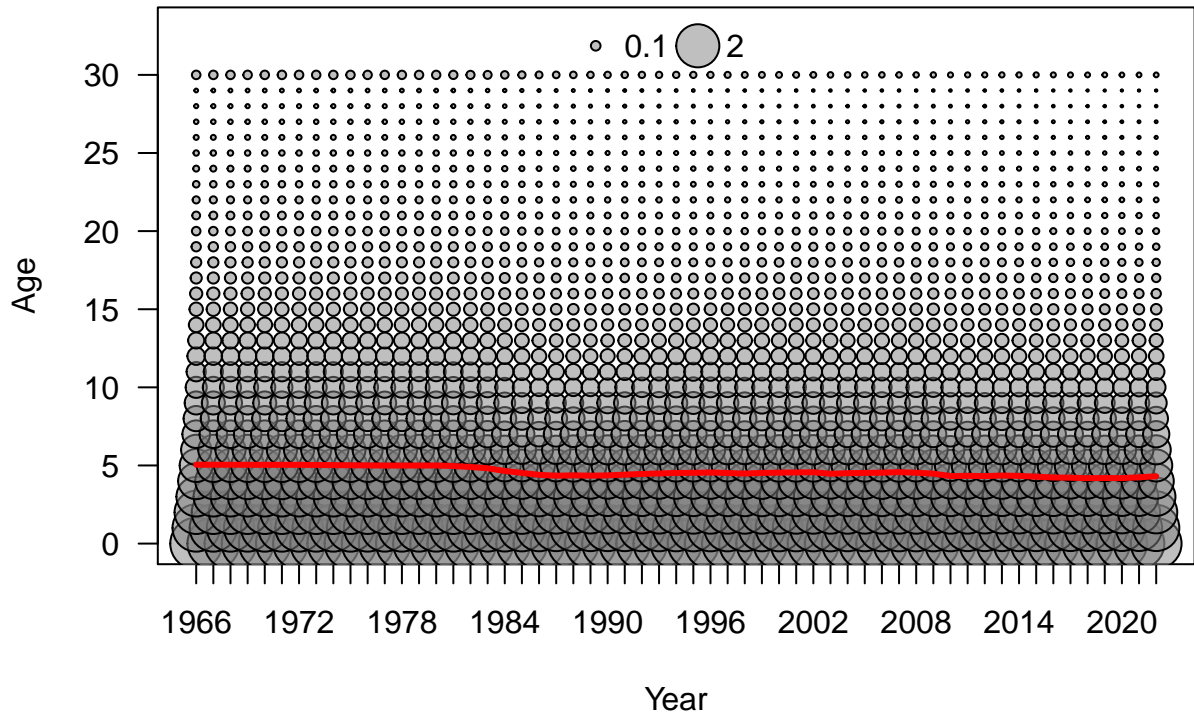
2020

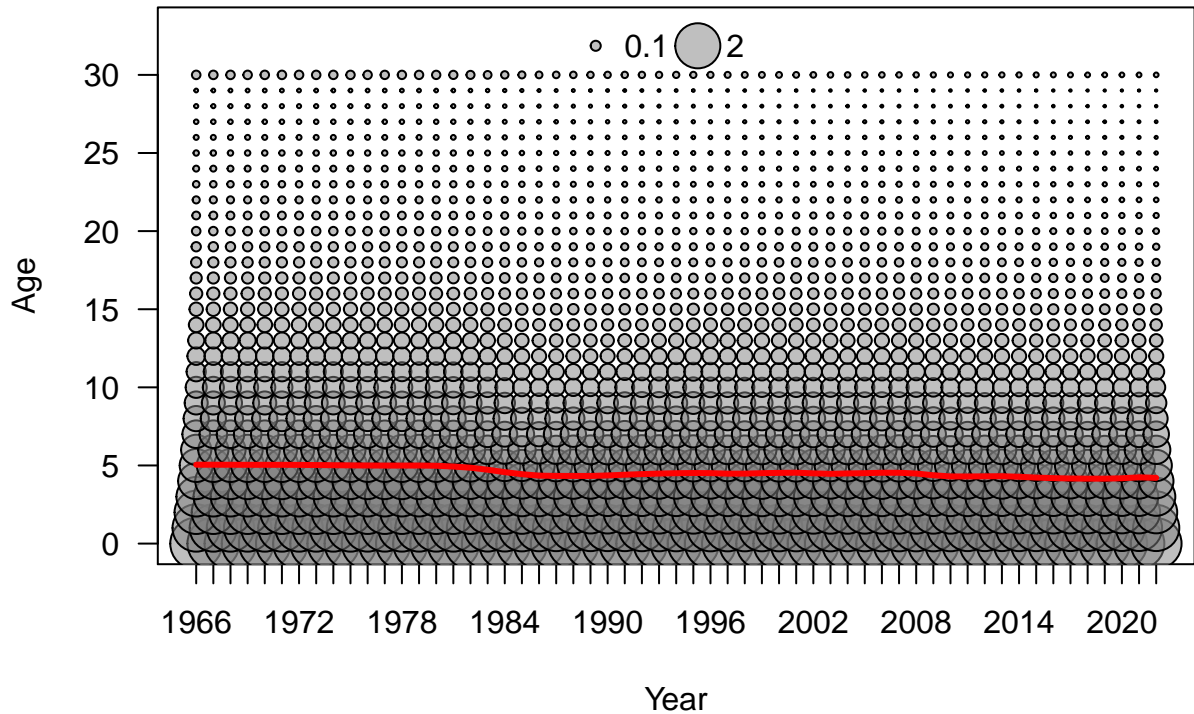
2021

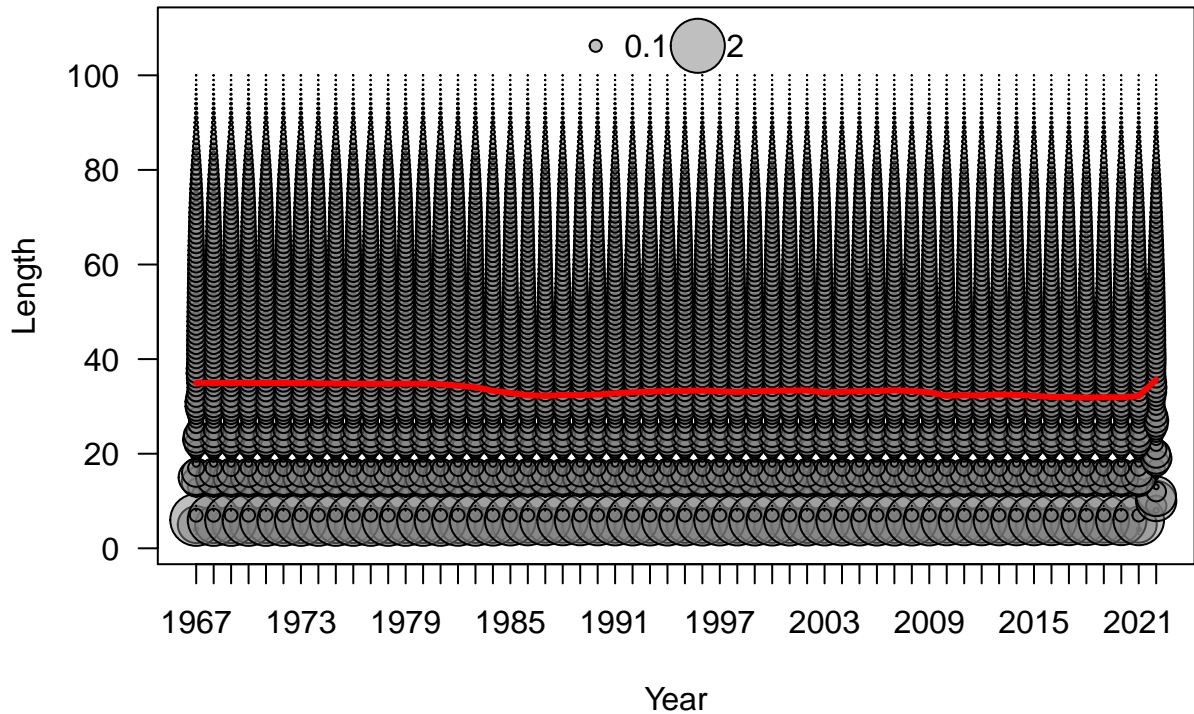
Year

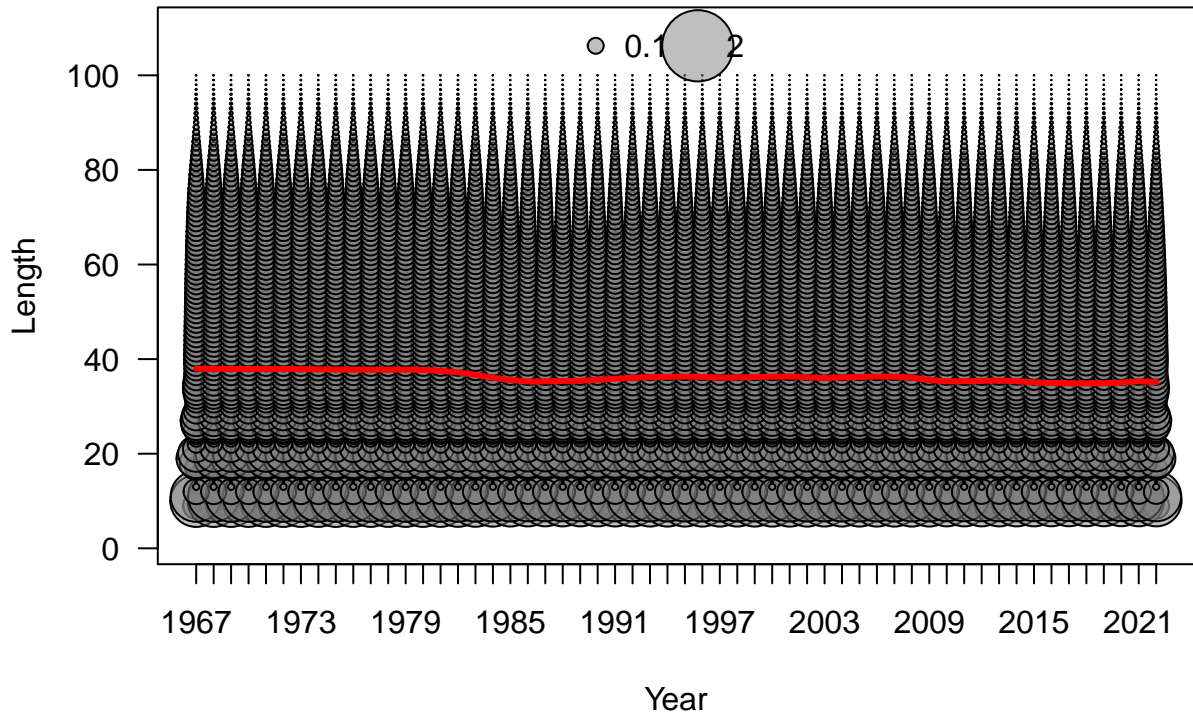


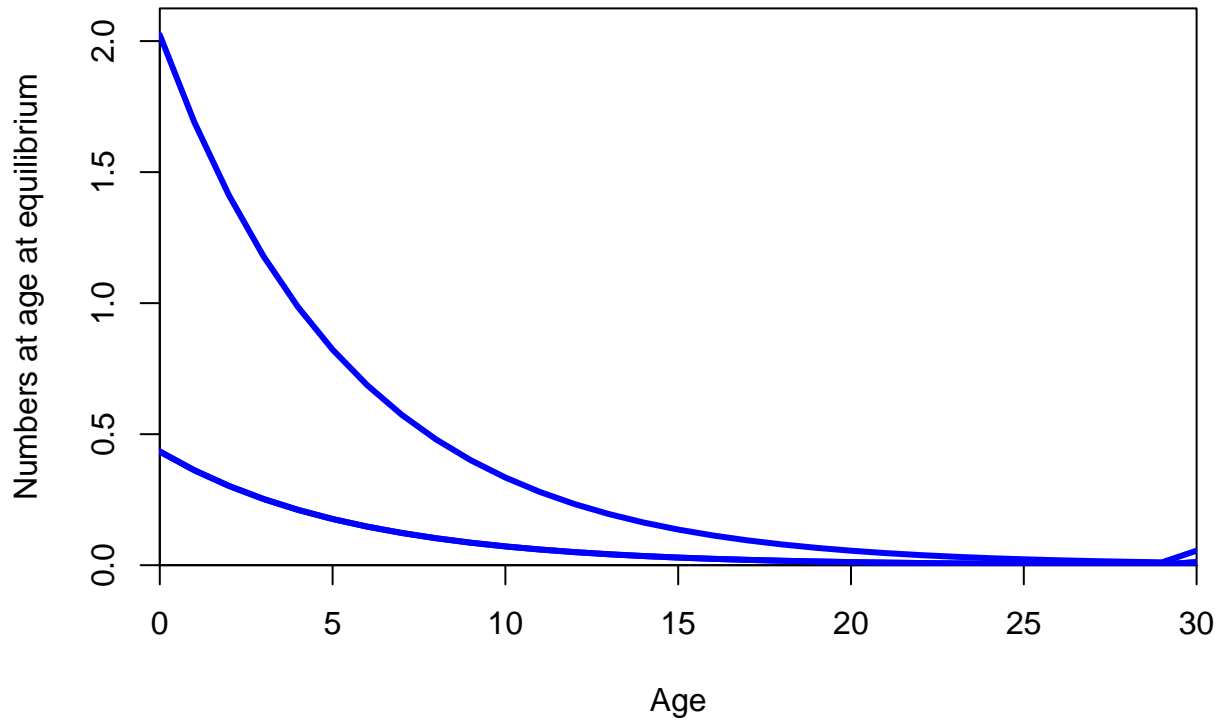






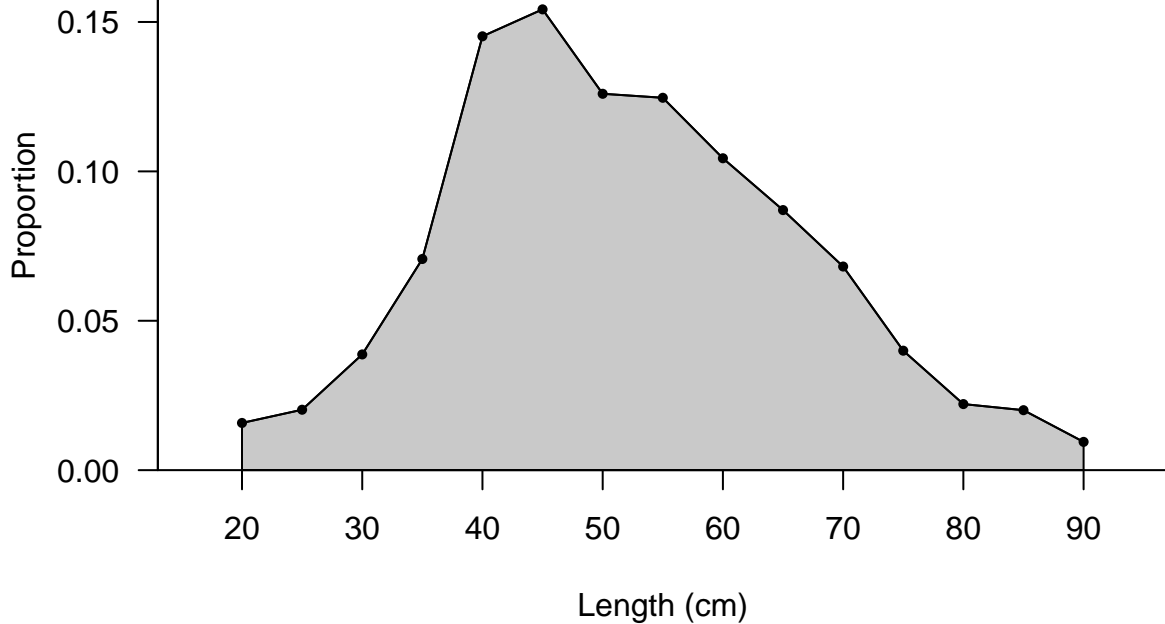






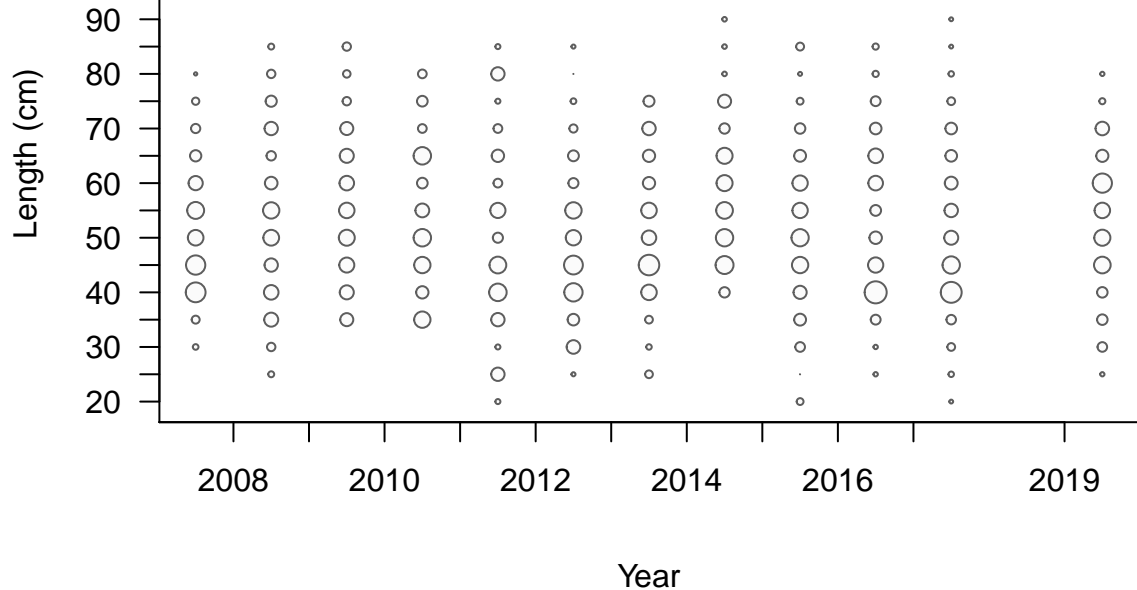
FISHERY

Sum of N adj.=339.8

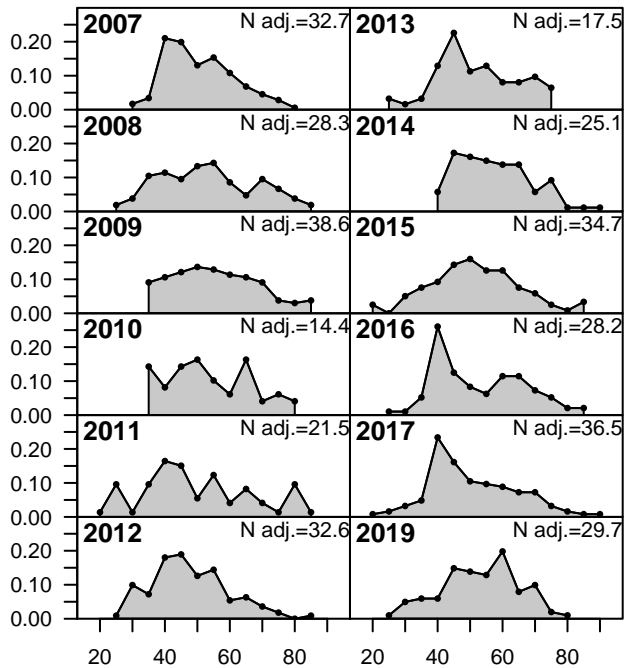


FISHERY

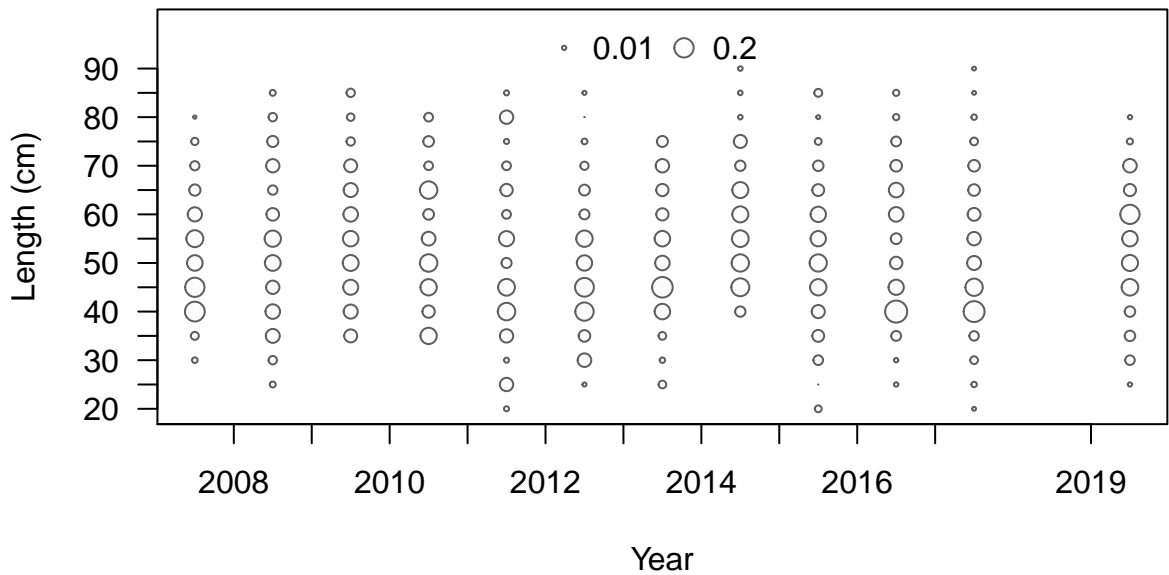
◦ 0.01 ○ 0.2



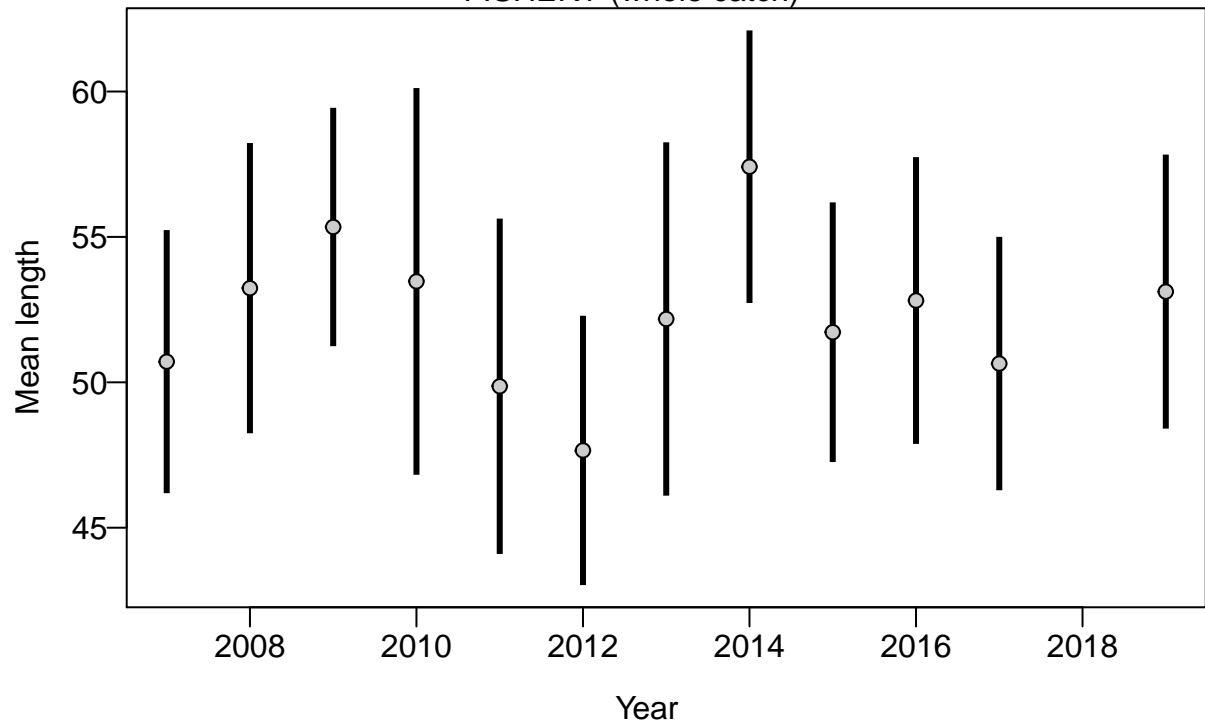
Proportion



Length (cm)

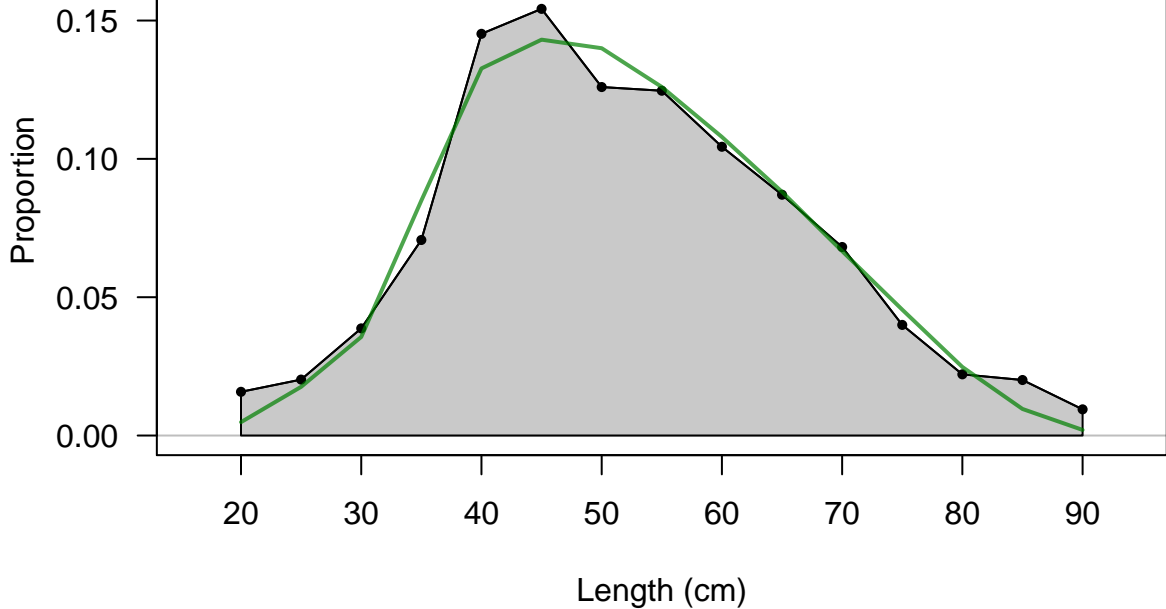


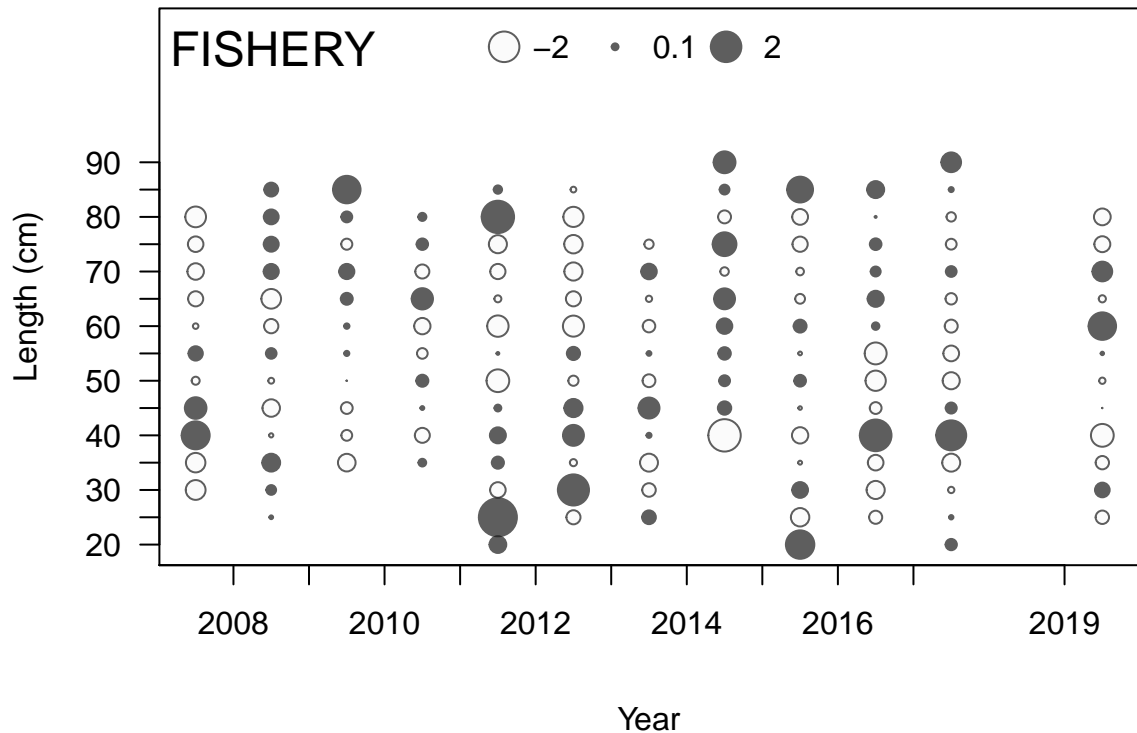
FISHERY (whole catch)



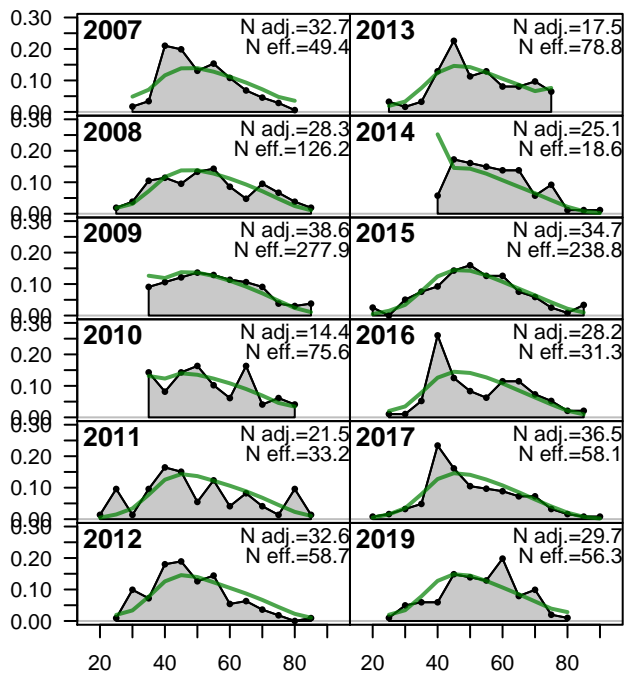
FISHERY

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

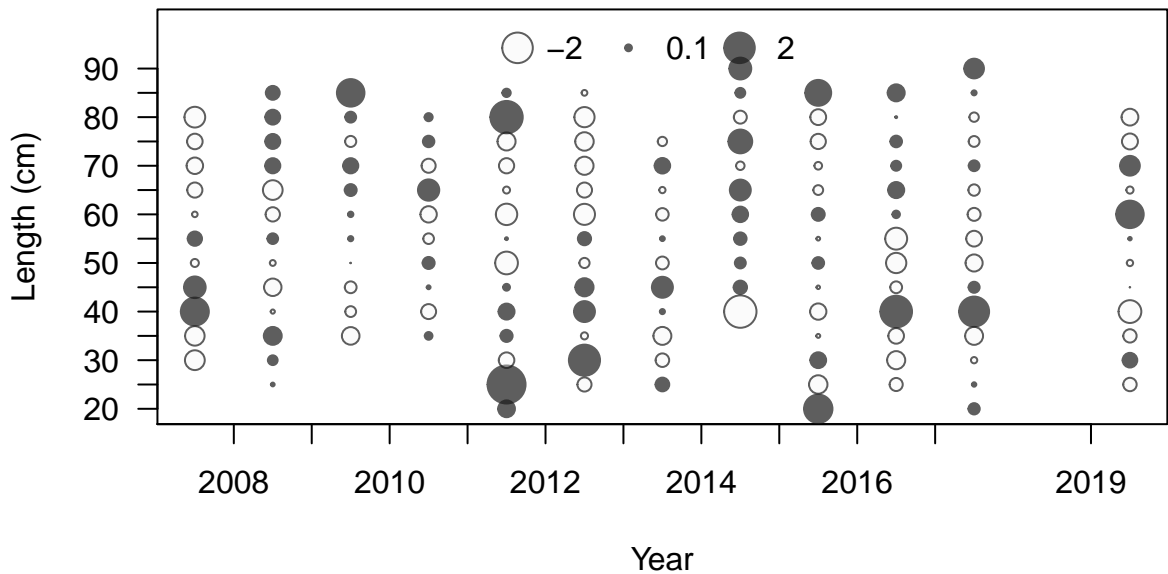




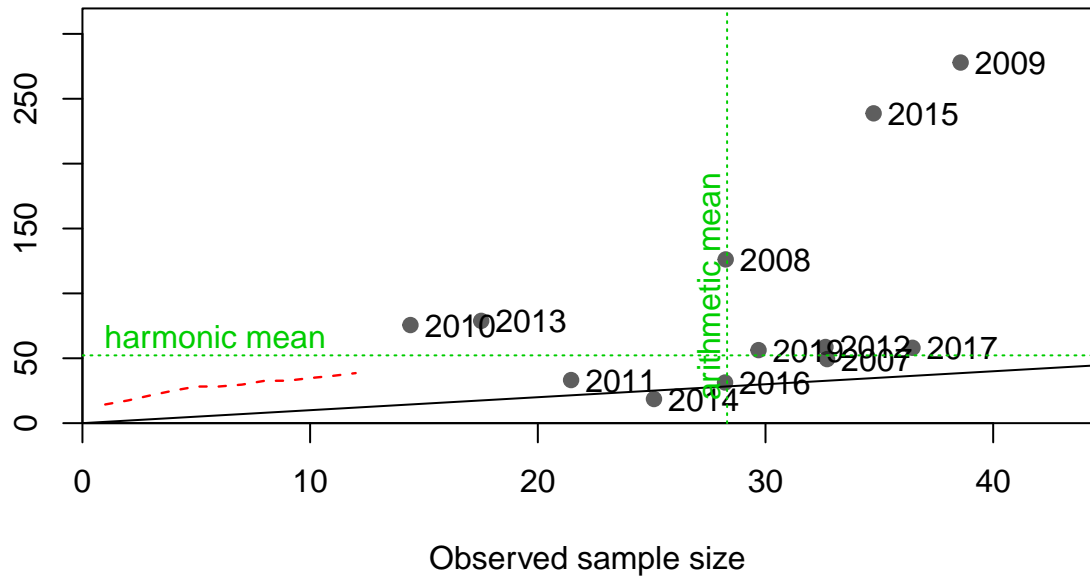
Proportion



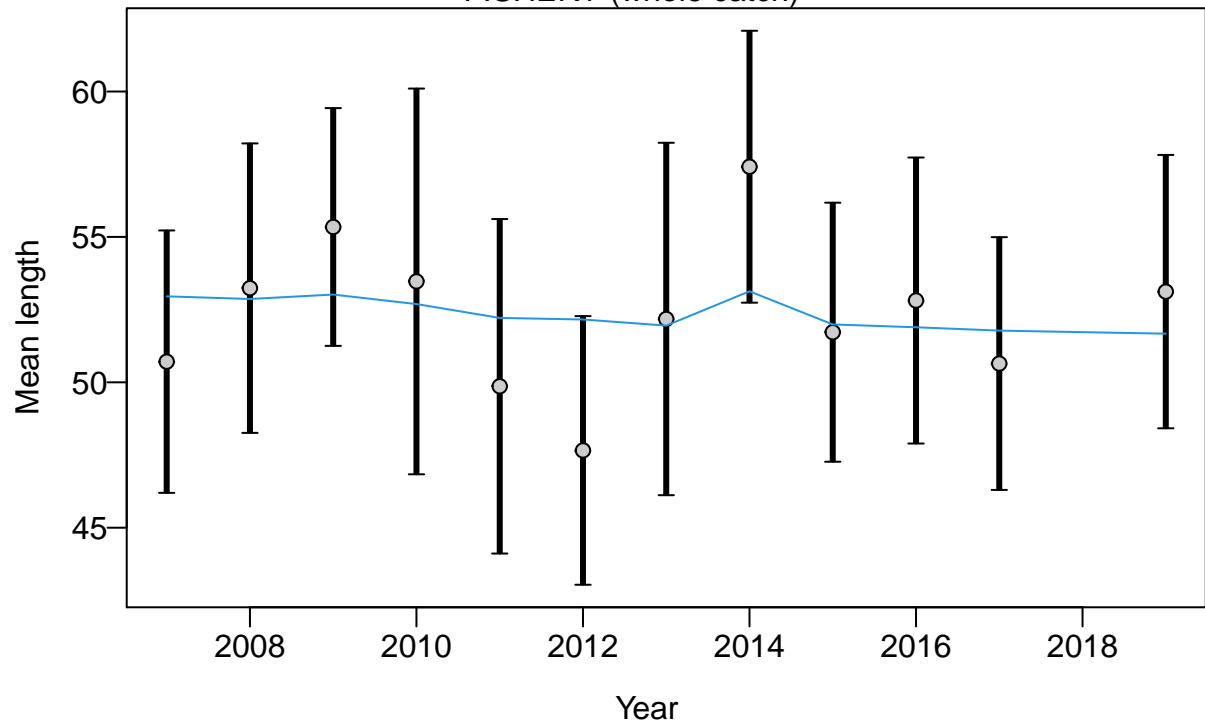
Length (cm)

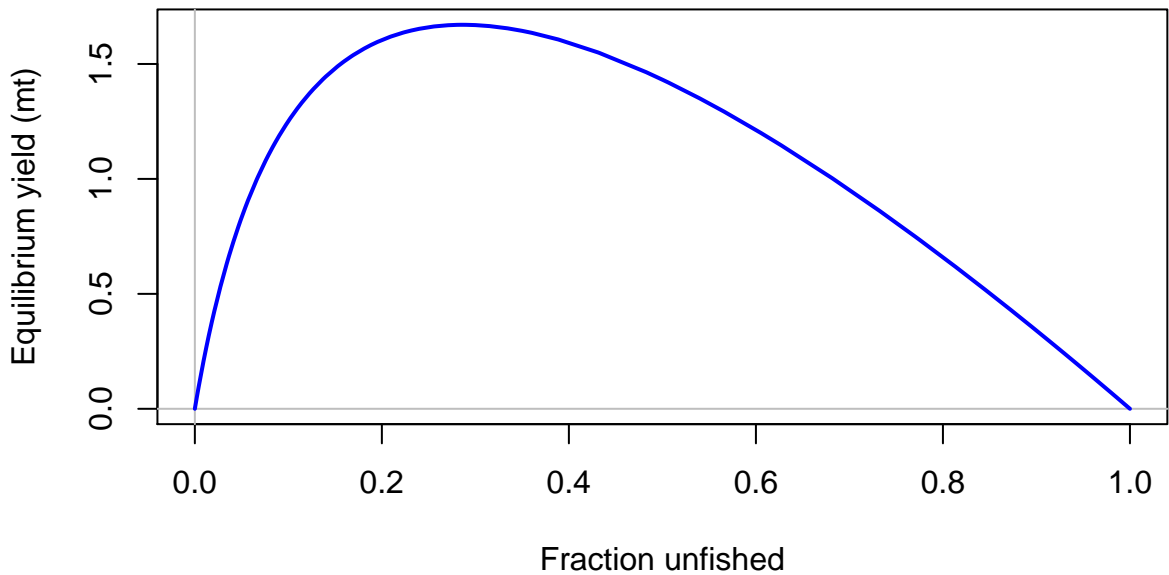


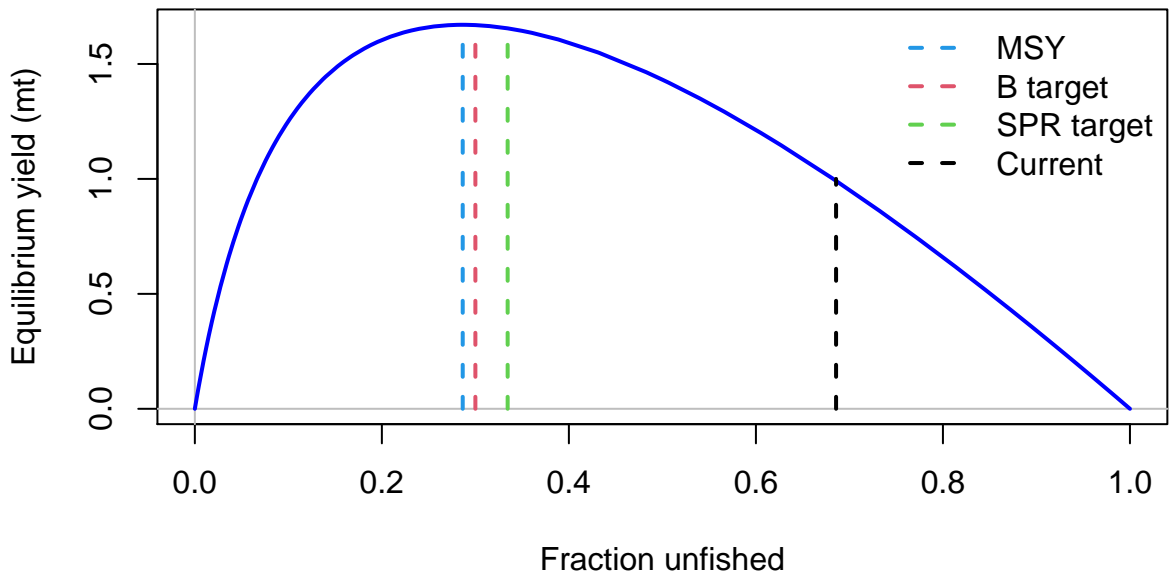
Effective sample size

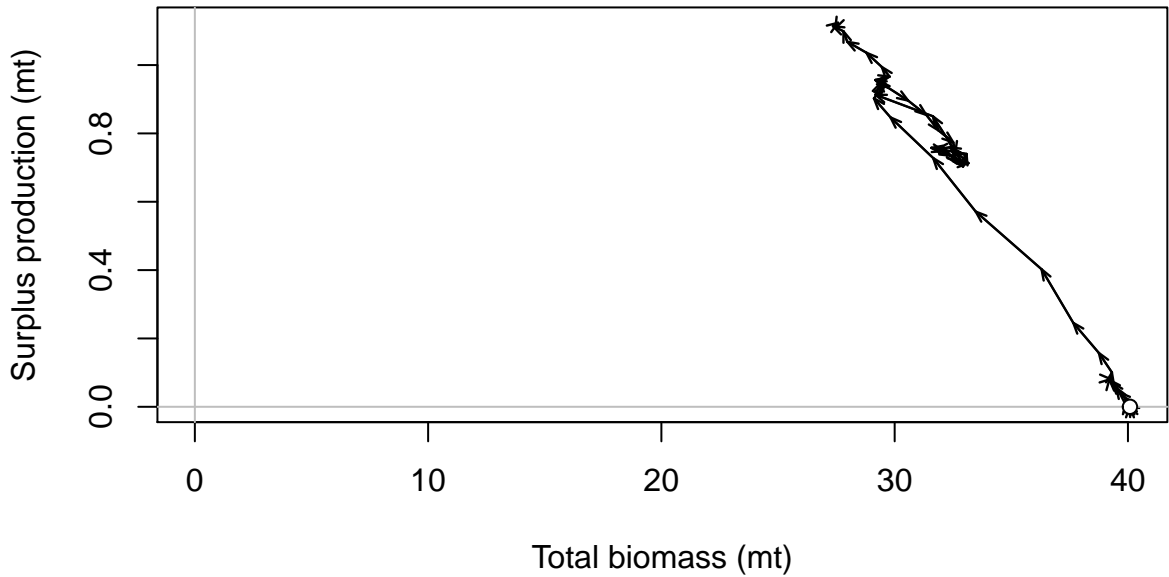


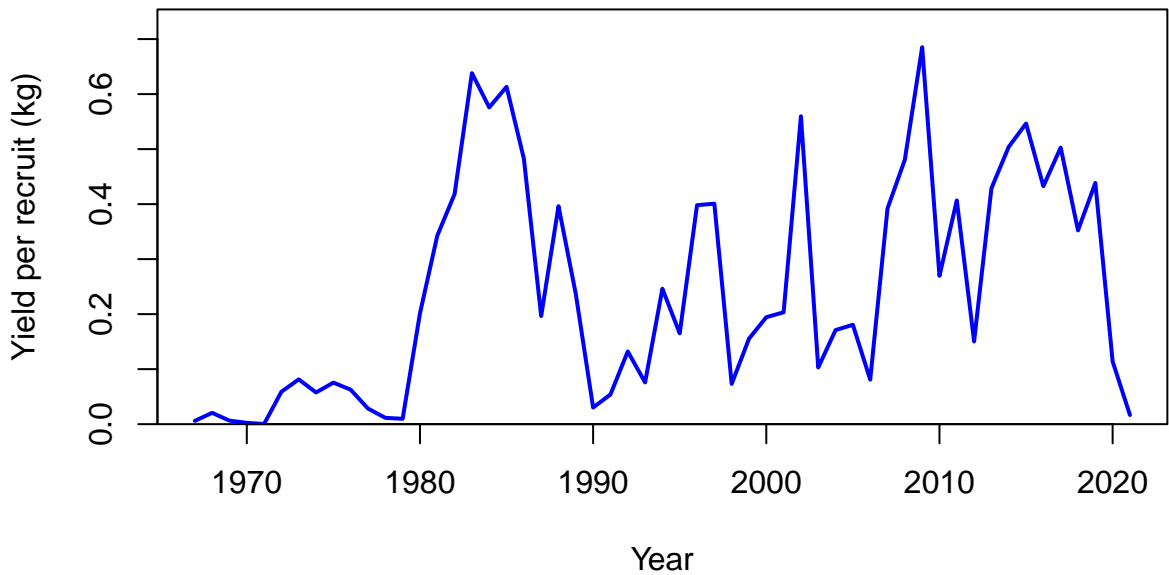
FISHERY (whole catch)

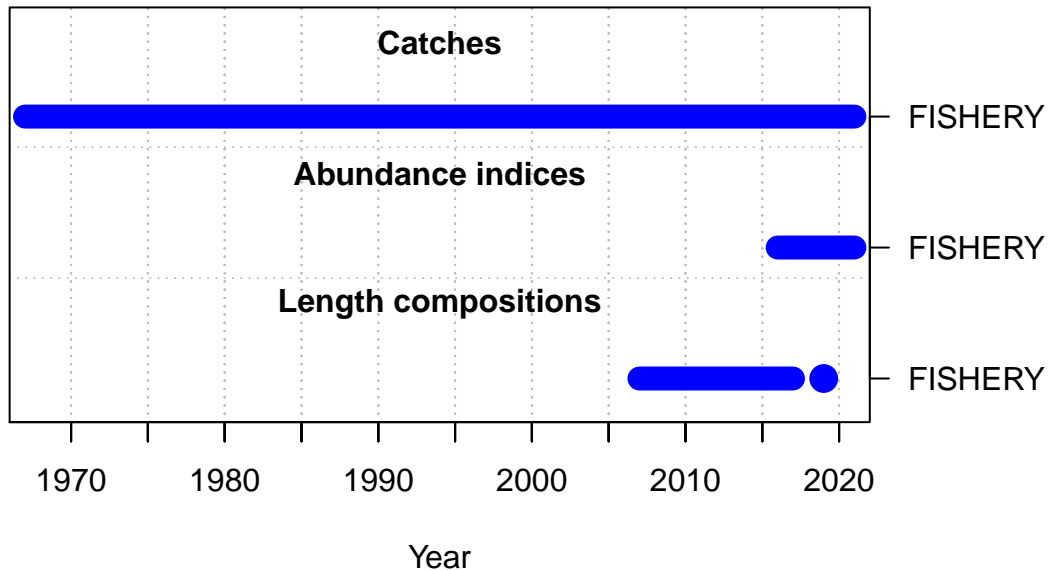


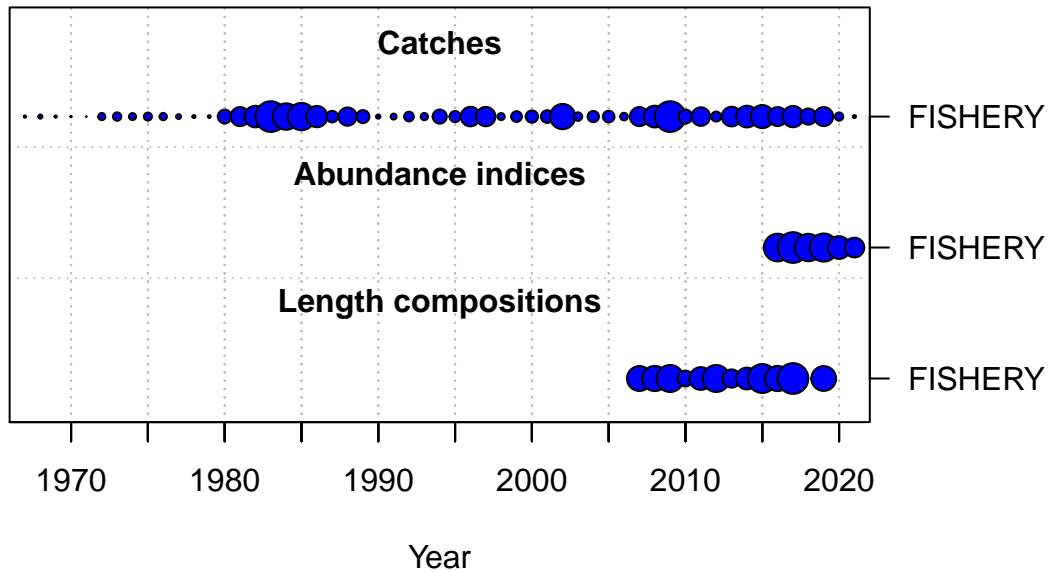








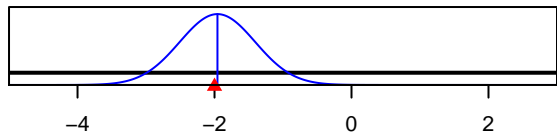




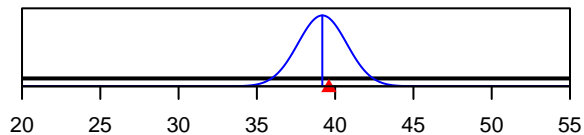
SR_LN(R0)



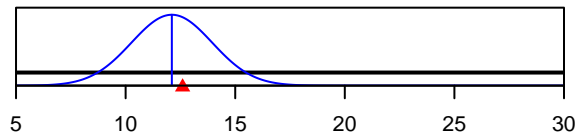
LnQ_base_FISHERY(1)



Size_inflection_FISHERY(1)



Size_95%width_FISHERY(1)



Parameter value