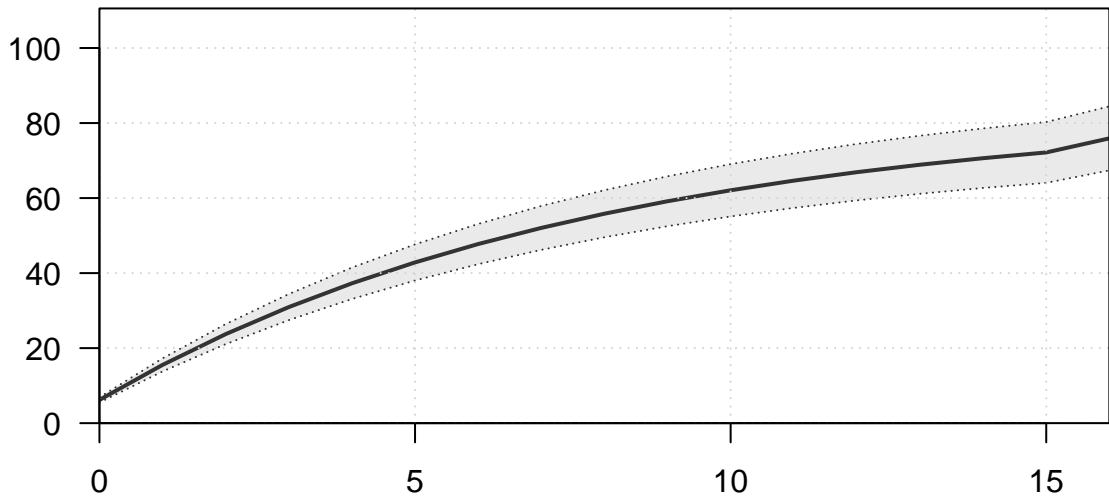
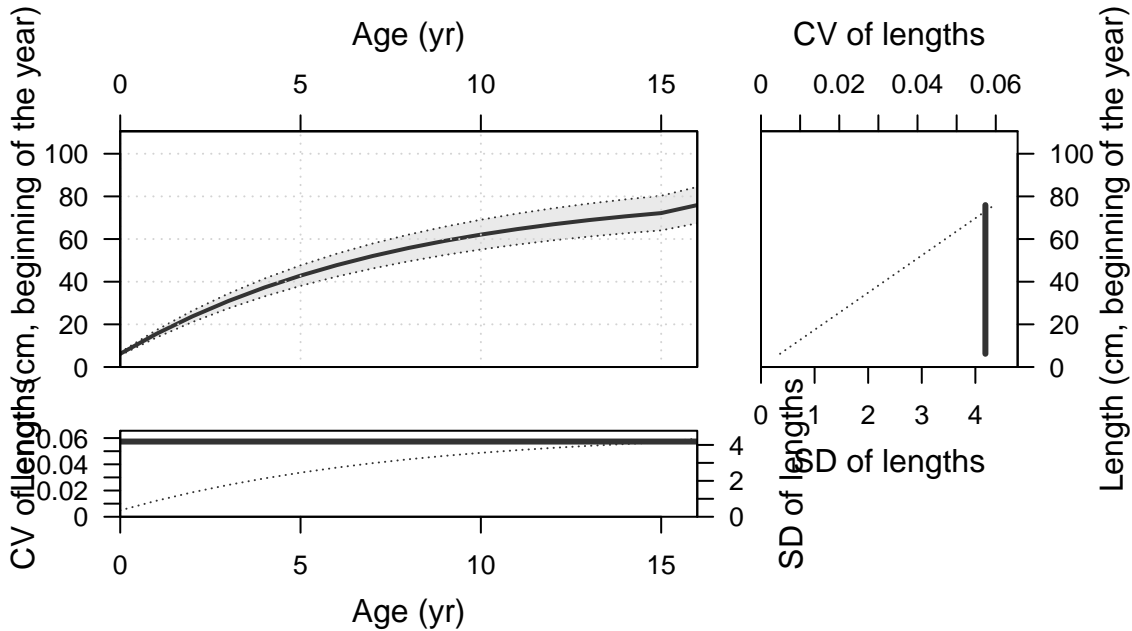


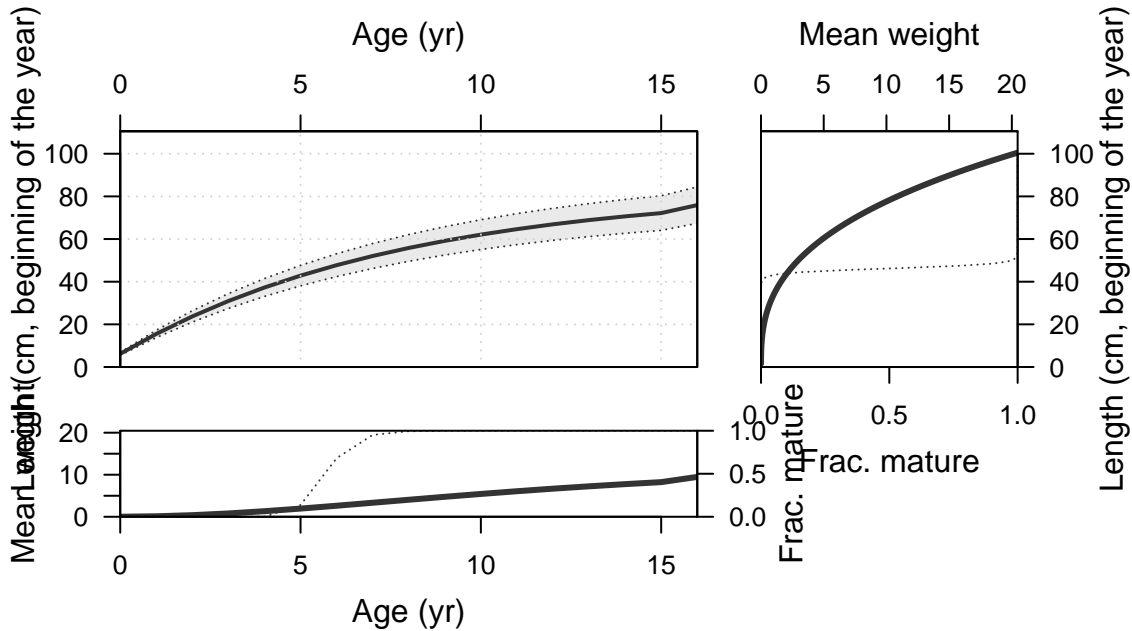
Plots created using the 'r4ss' package in R
Stock Synthesis version: 3.30.19.0
StartTime: Thu Jan 12 16:33:31 2023
Data_File: data.ss
Control_File: control.ss

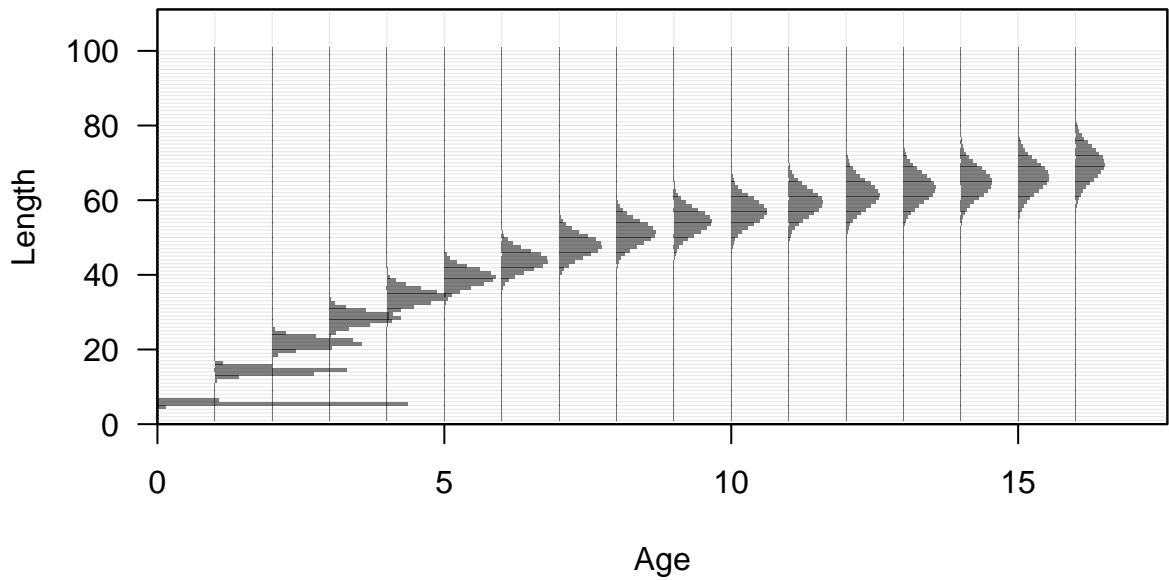
Length (cm, beginning of the year)

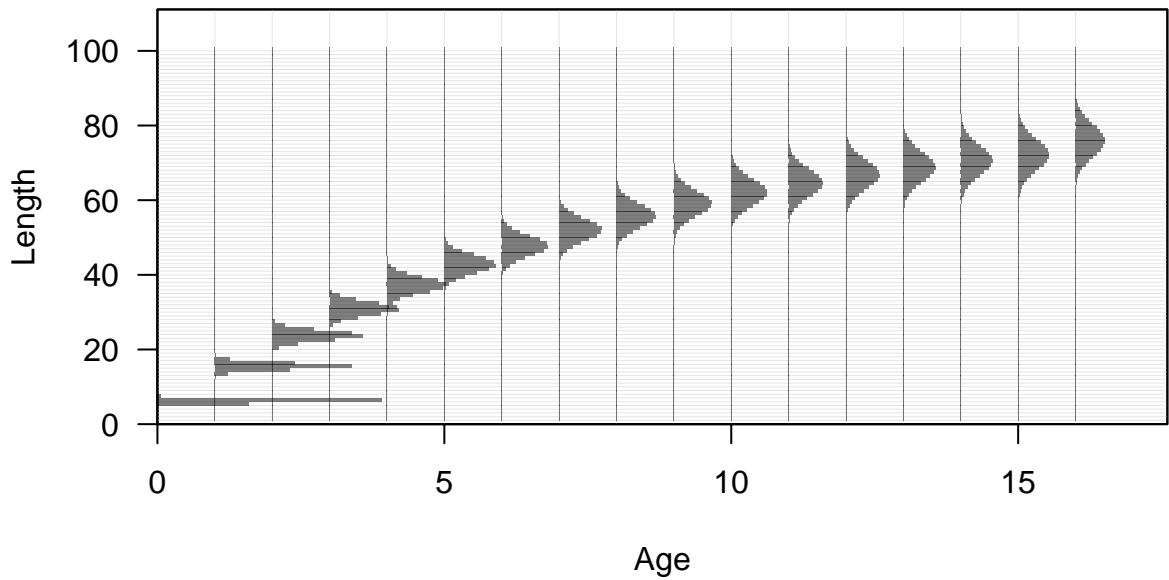


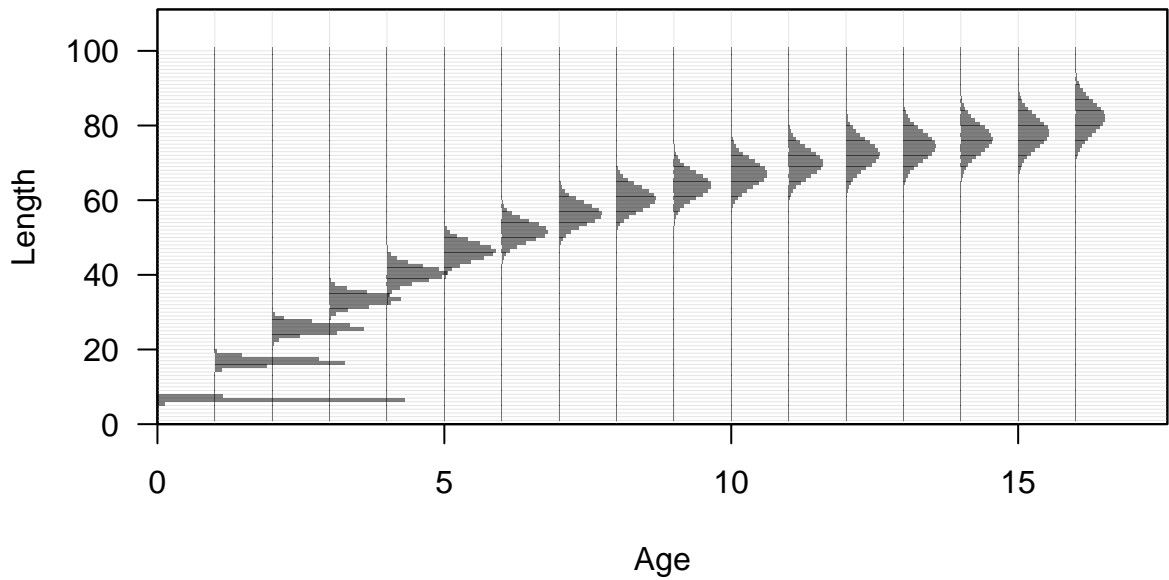
Age (yr)

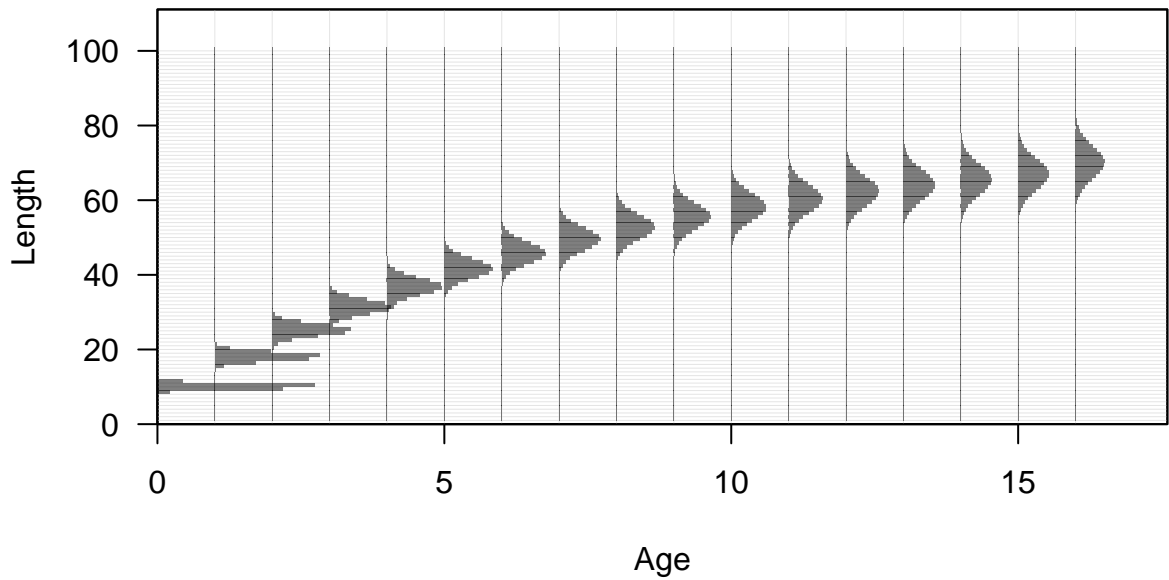


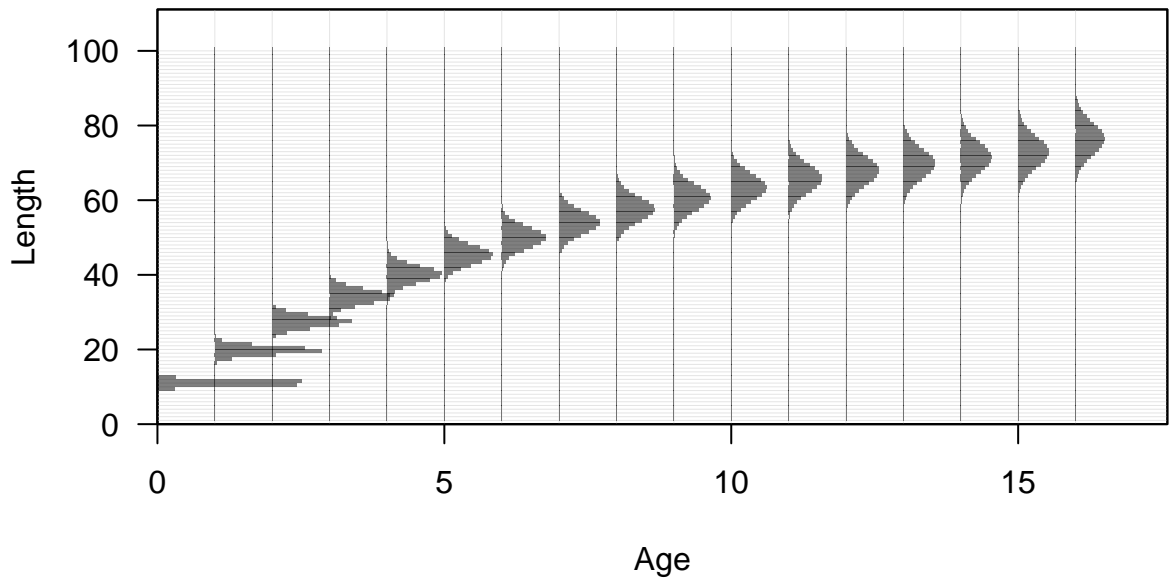


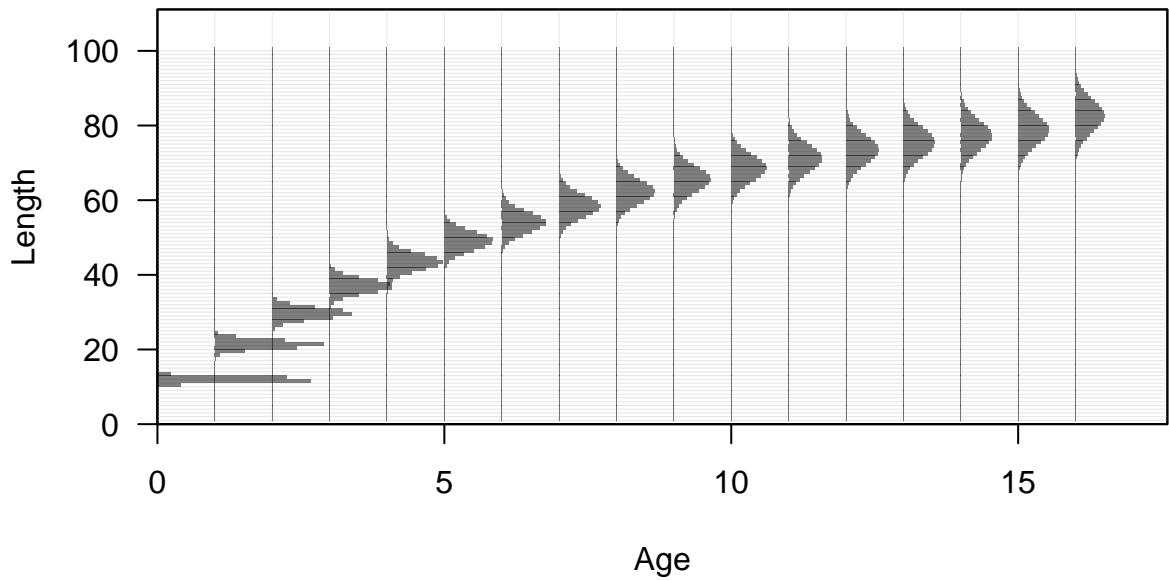




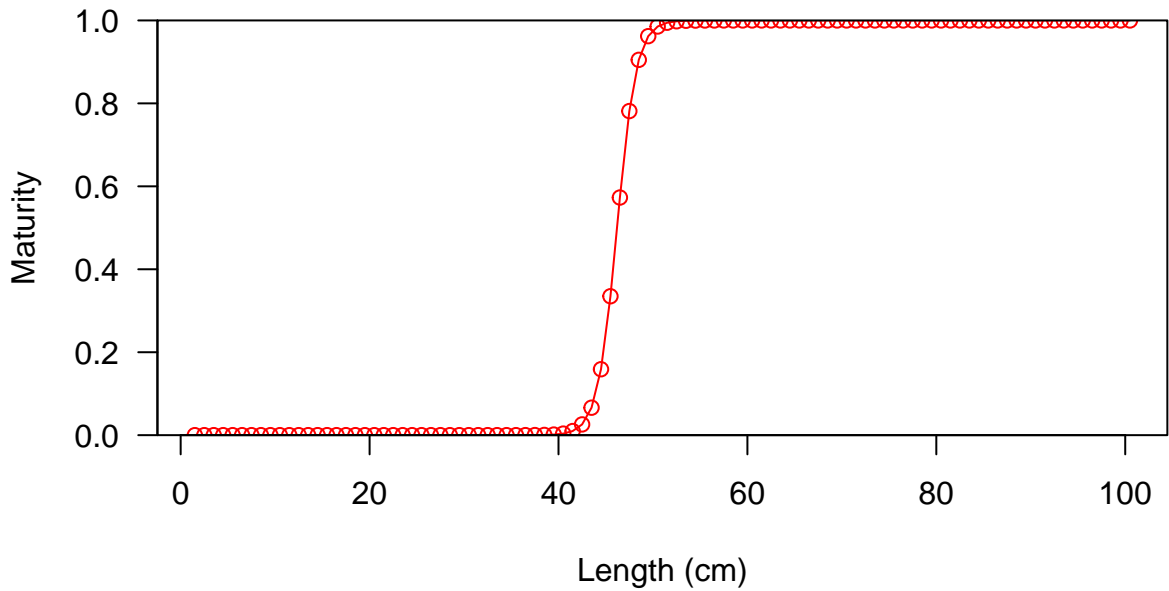


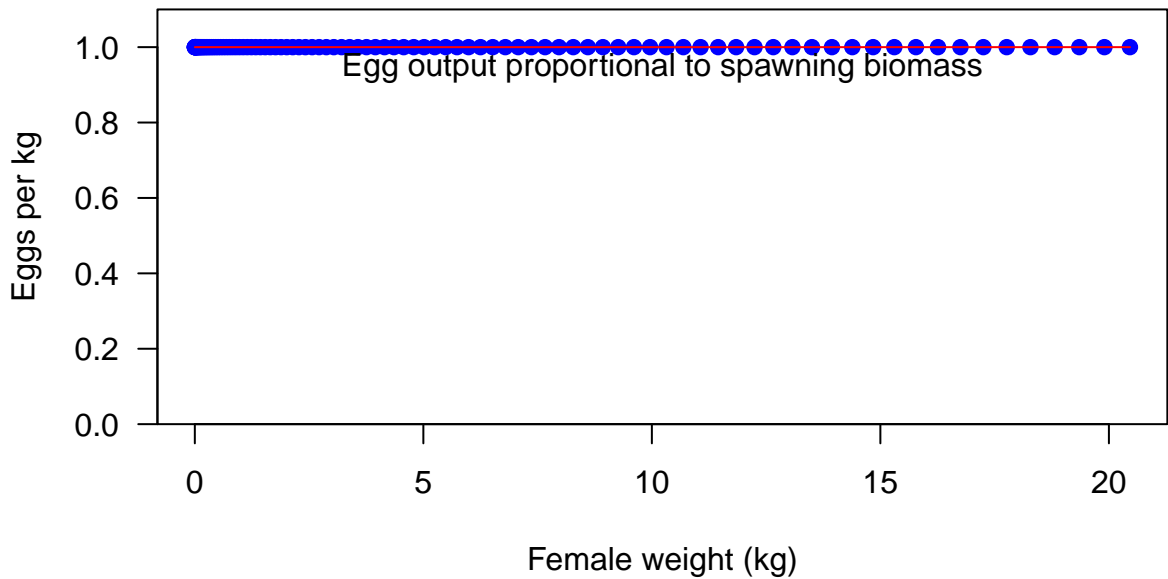




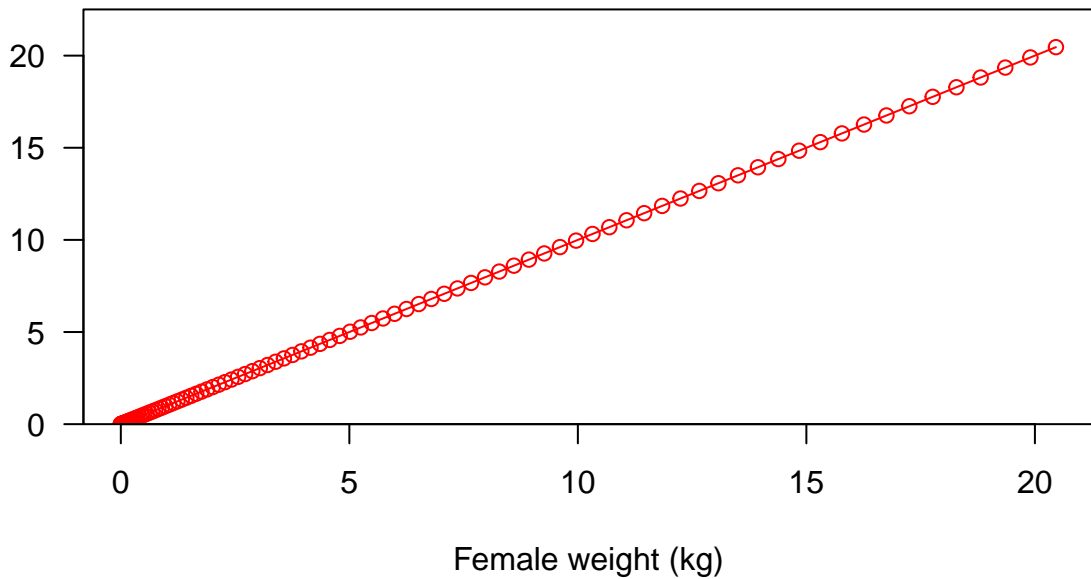








Fecundity



Fecundity

20

15

10

5

0

0

20

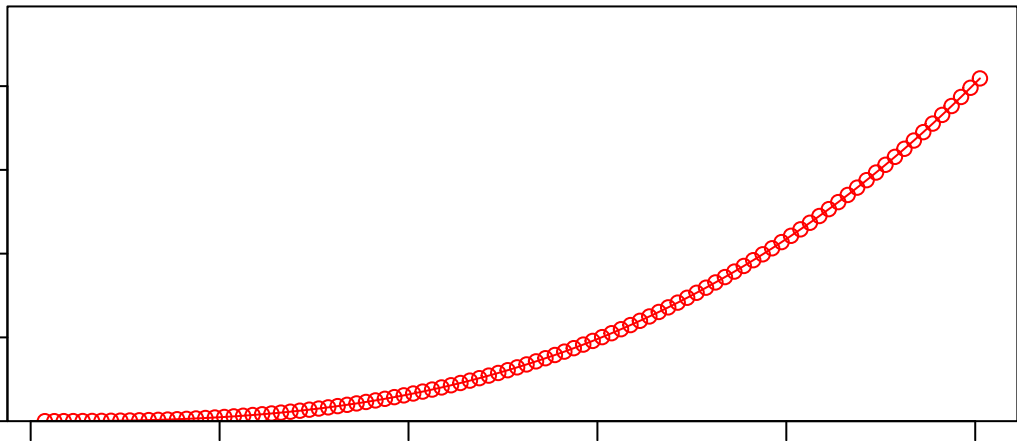
40

60

80

100

Female length (cm)



Spawning output

20
15
10
5
0

0

20

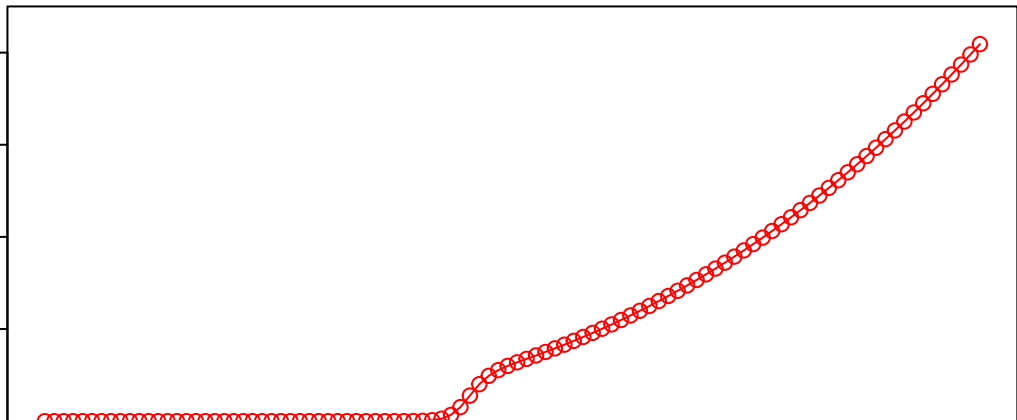
40

60

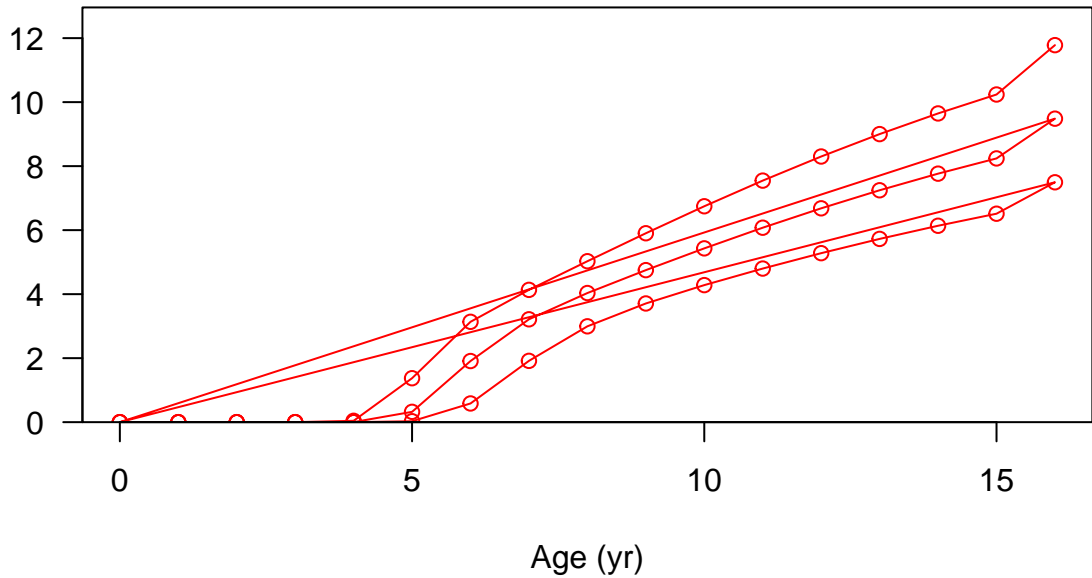
80

100

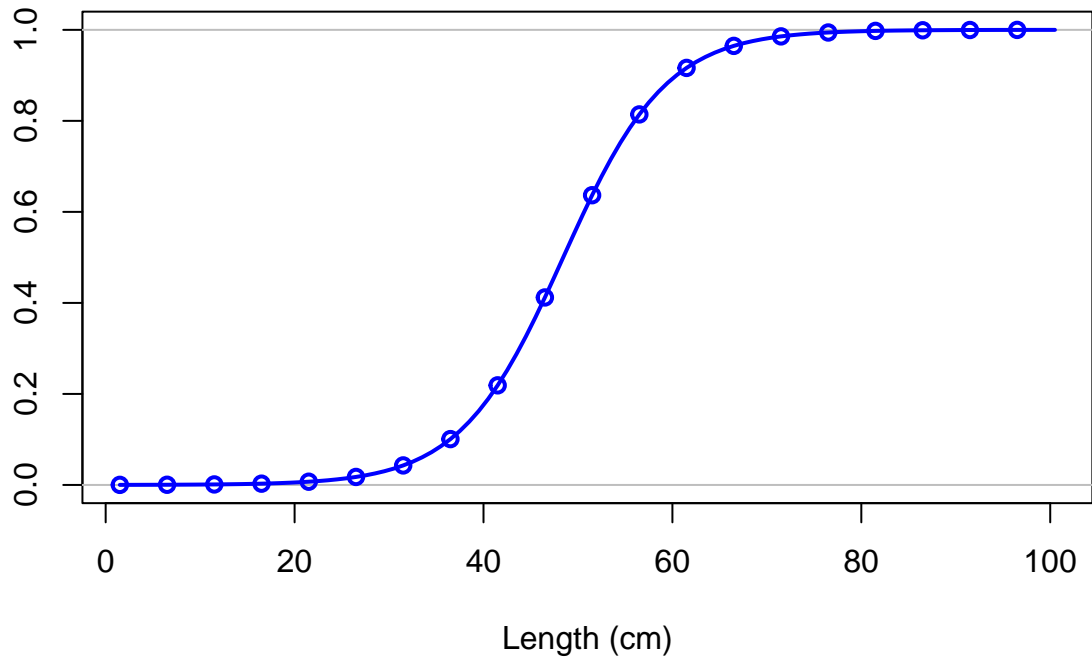
Length (cm)



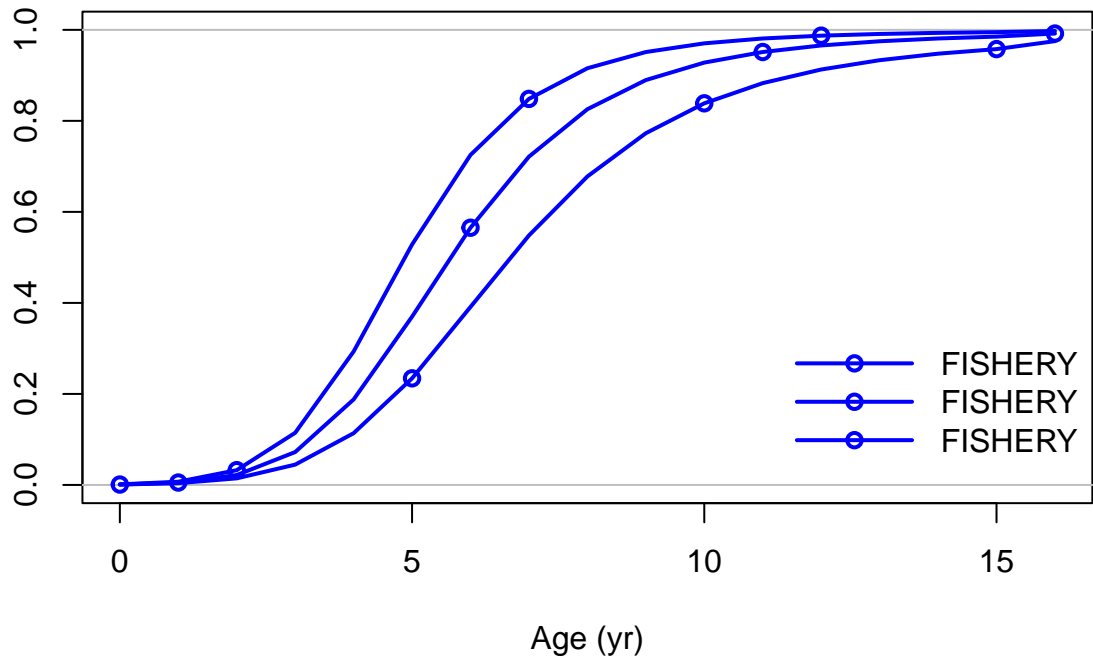
Spawning output



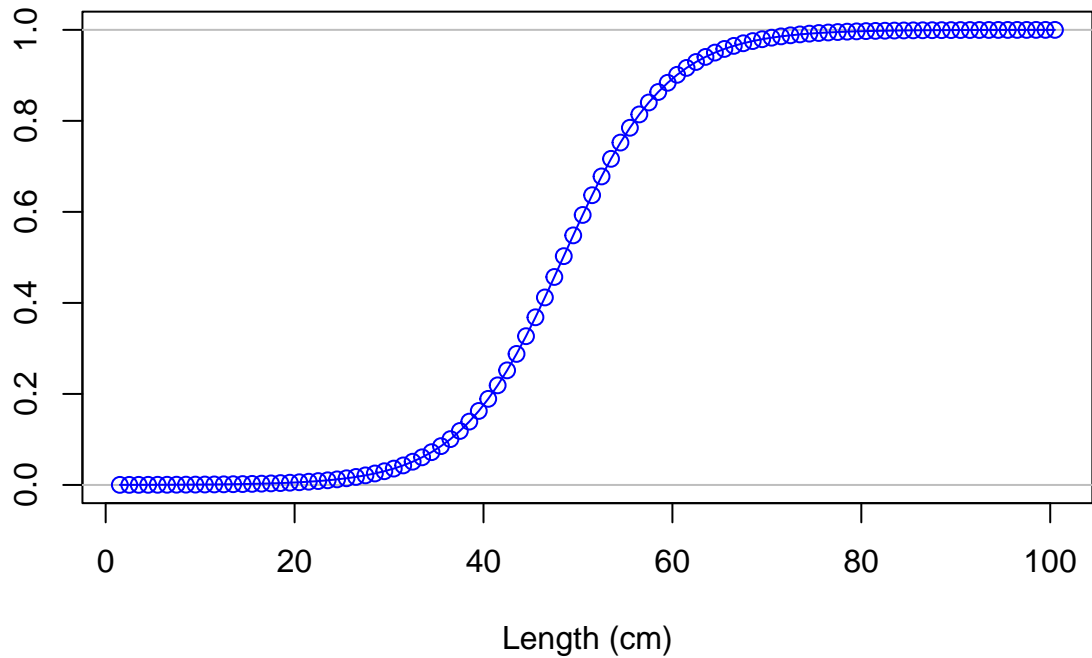
Selectivity

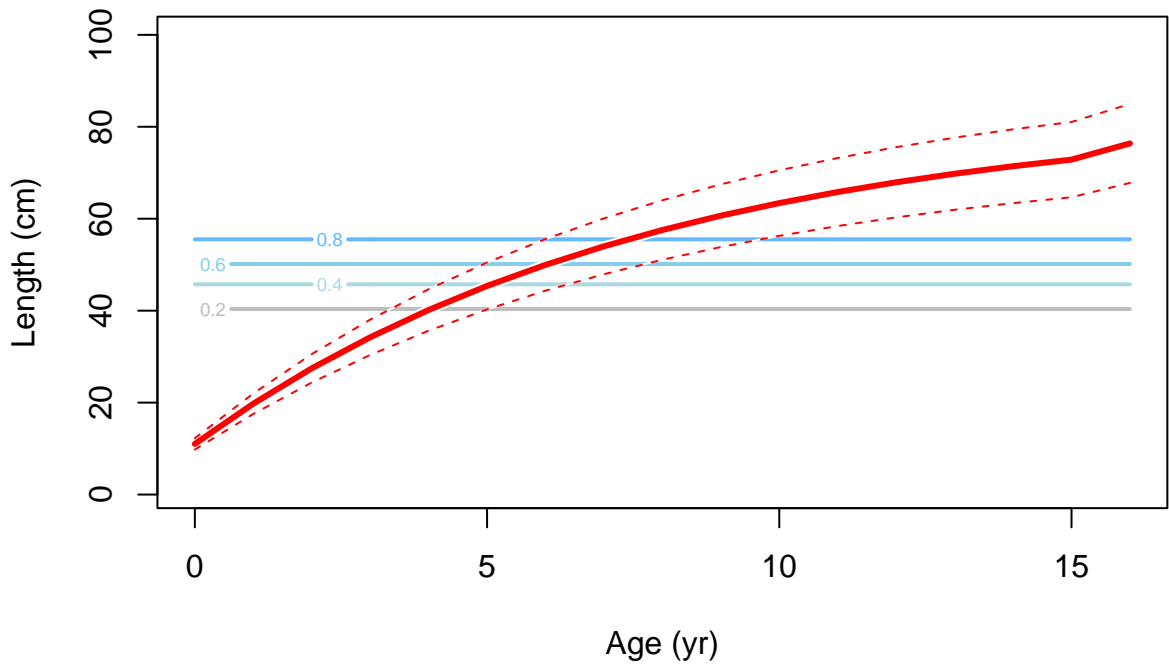


Selectivity

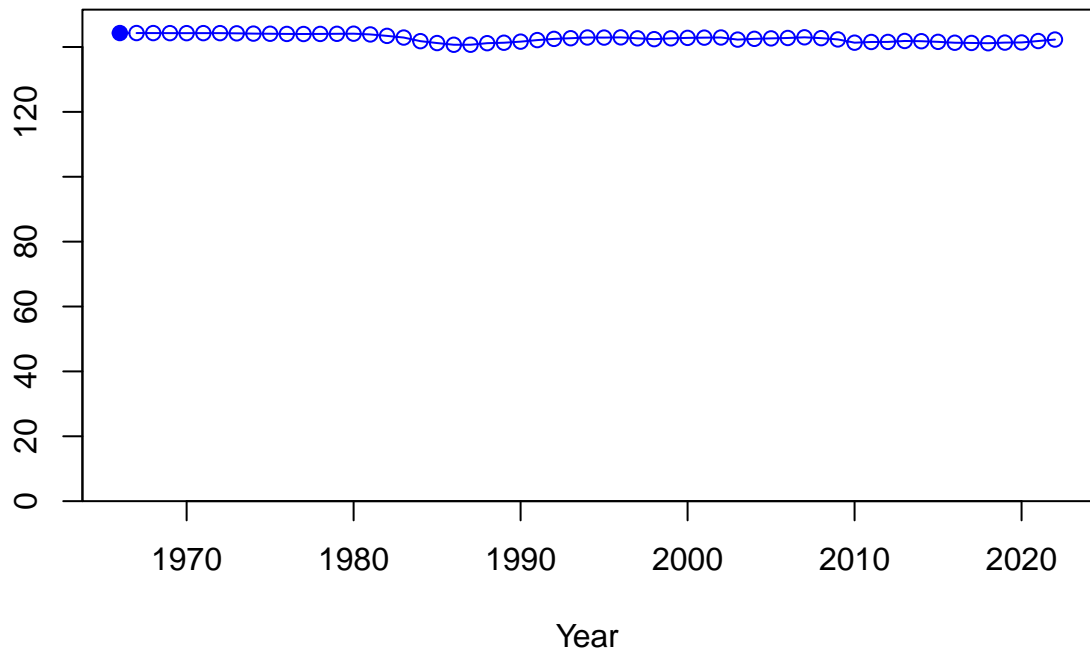


Selectivity

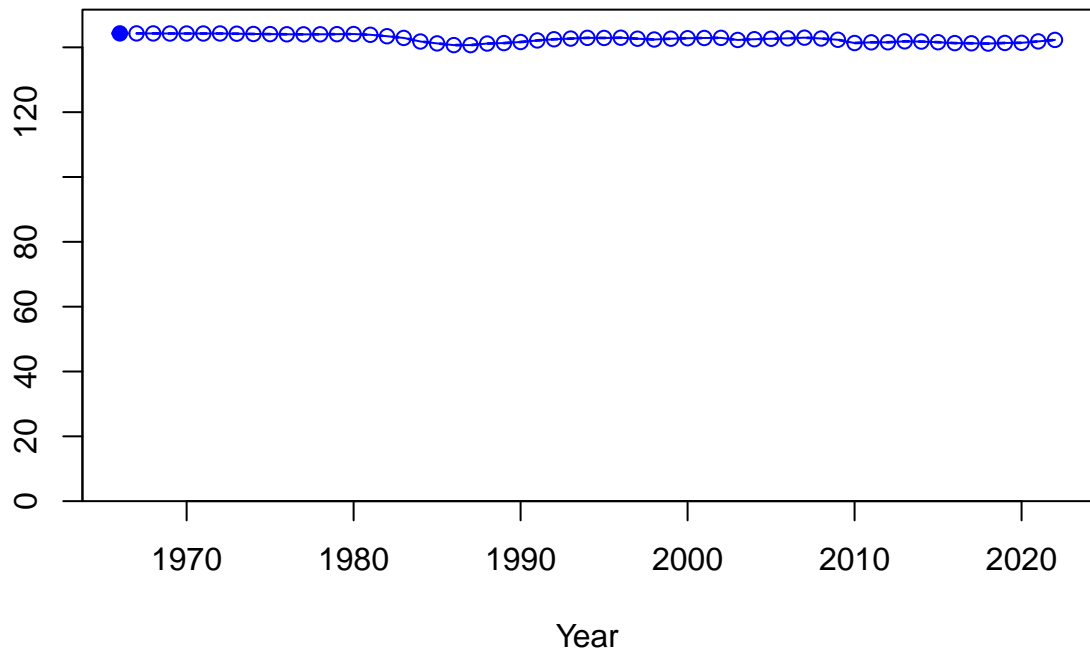




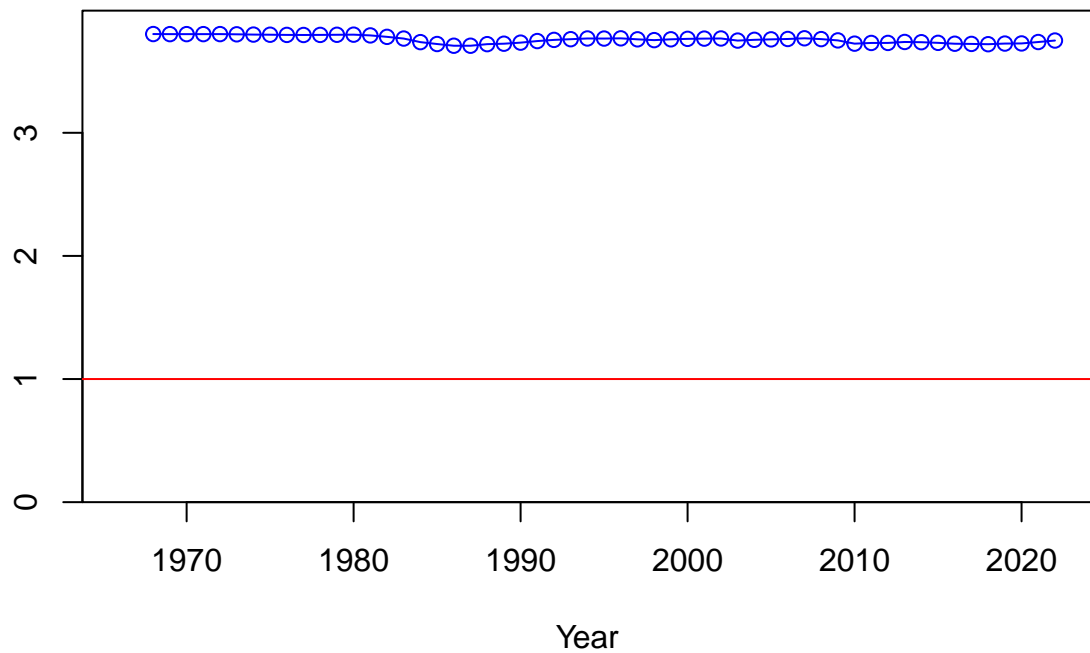
Spawning biomass (mt)



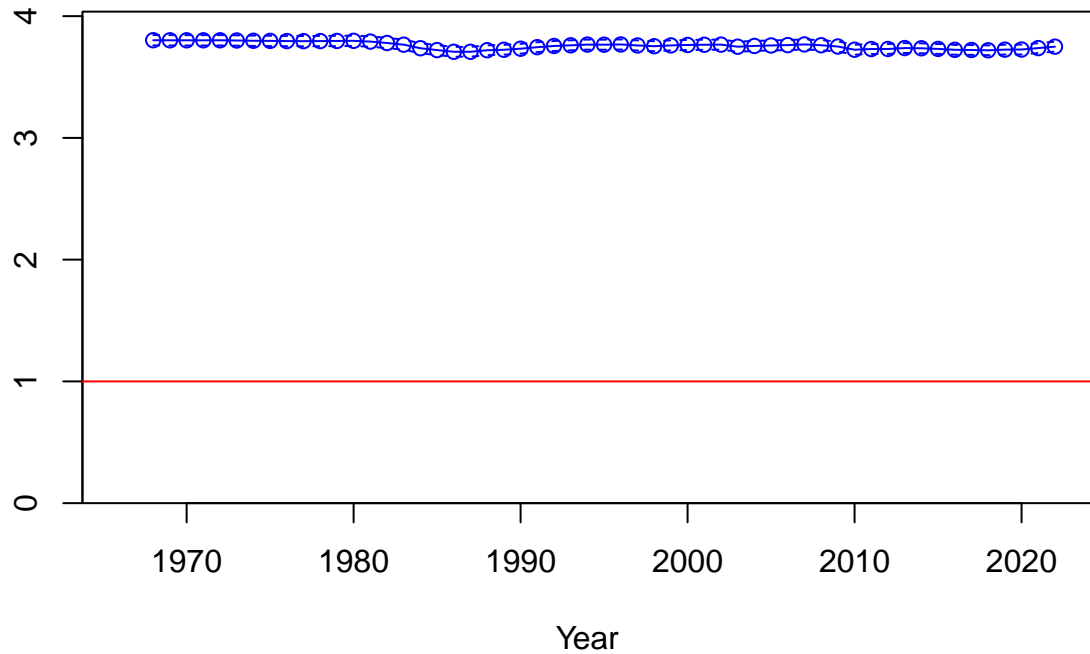
Spawning biomass (mt)

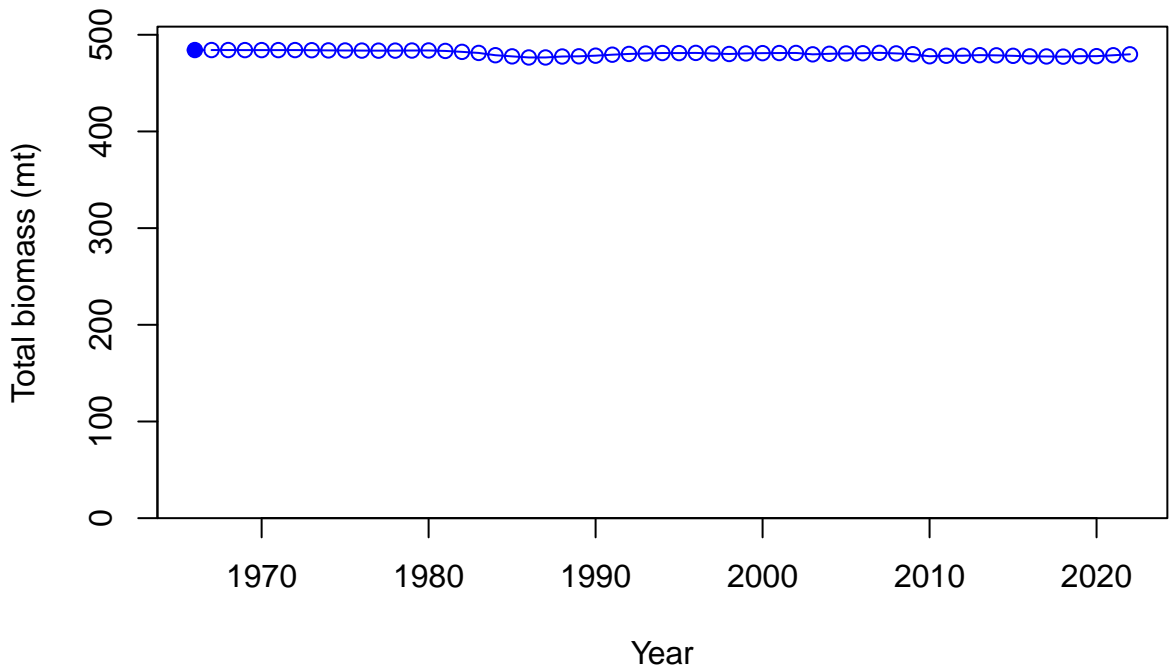


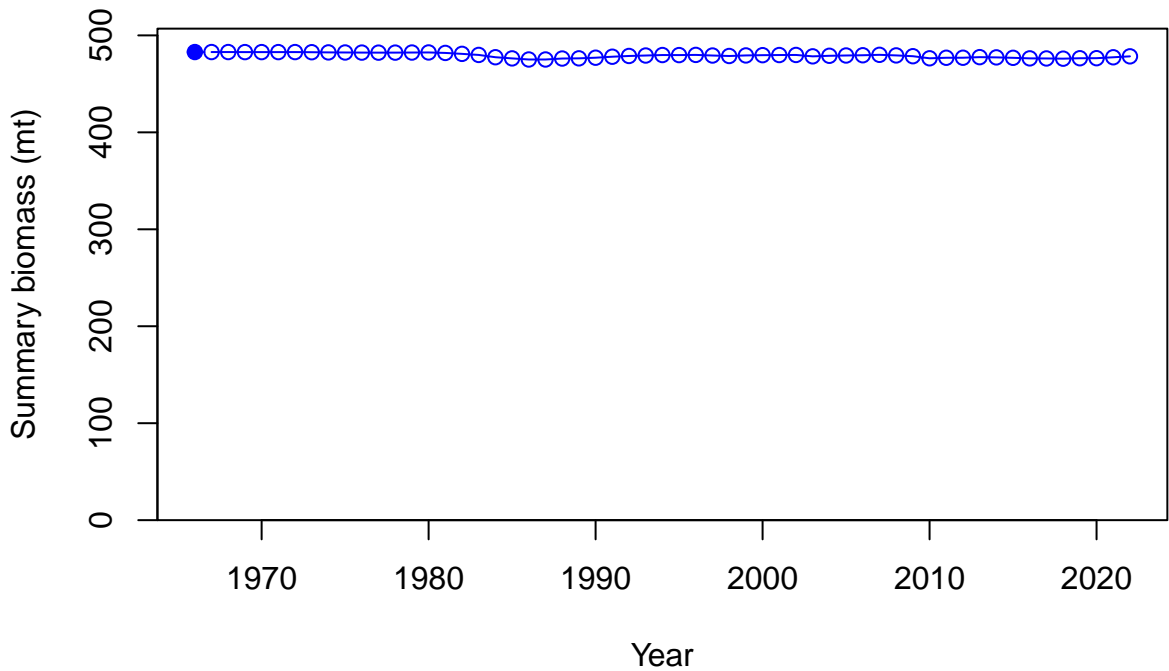
Relative spawning biomass: B/B_{MSY}

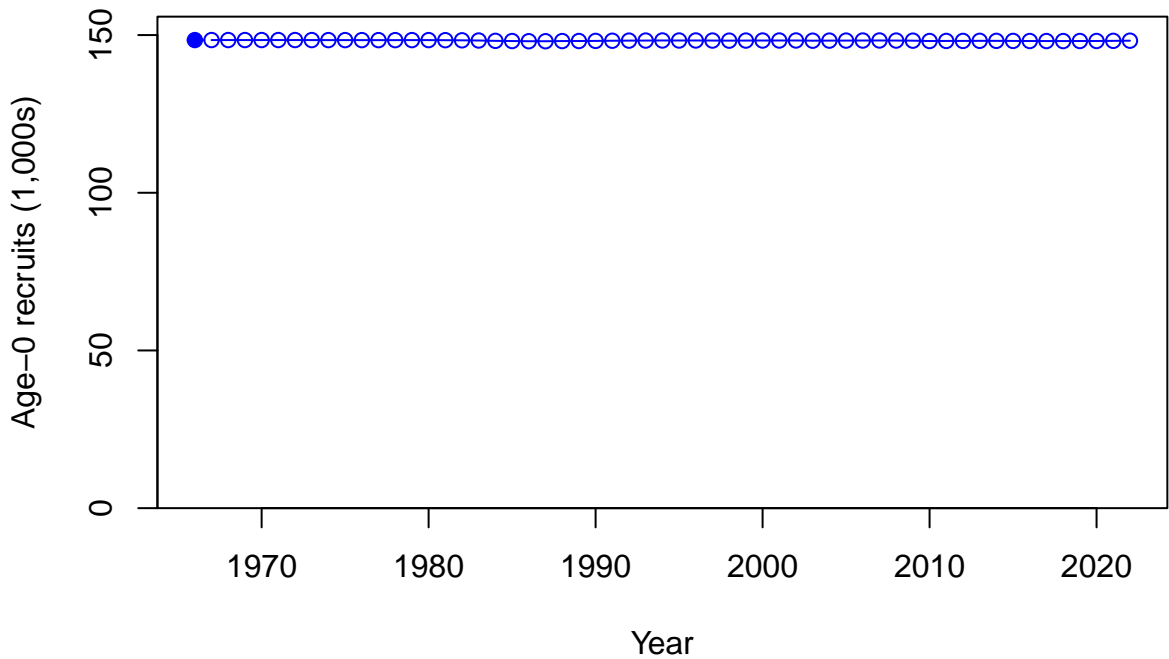


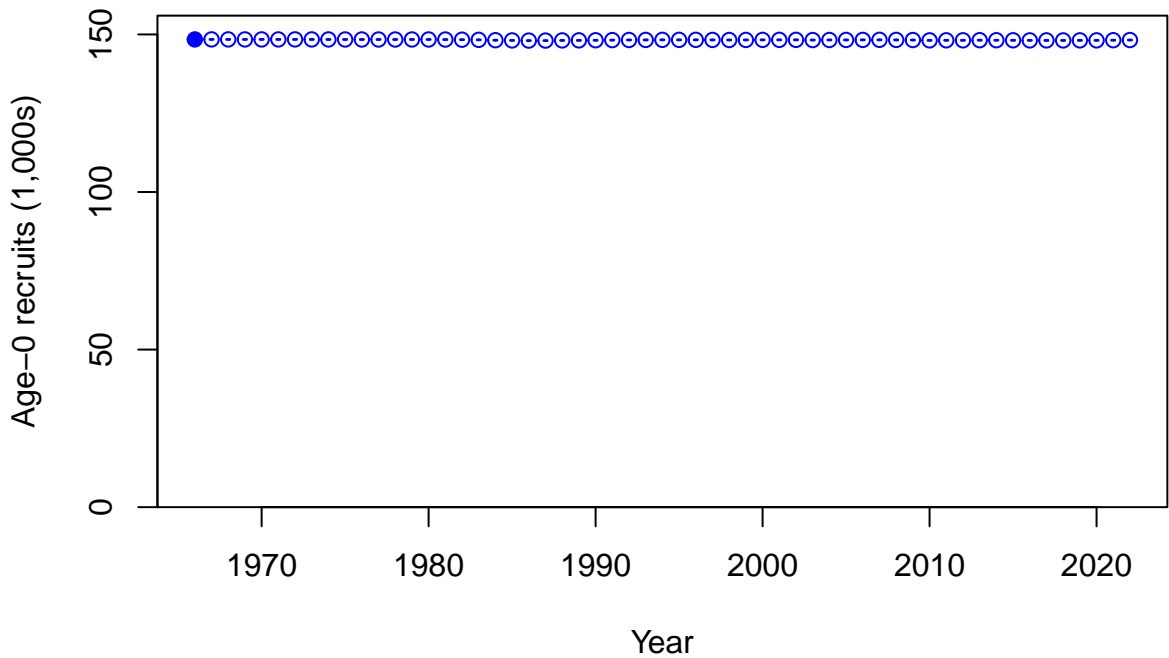
Relative spawning biomass: B/B_MSY



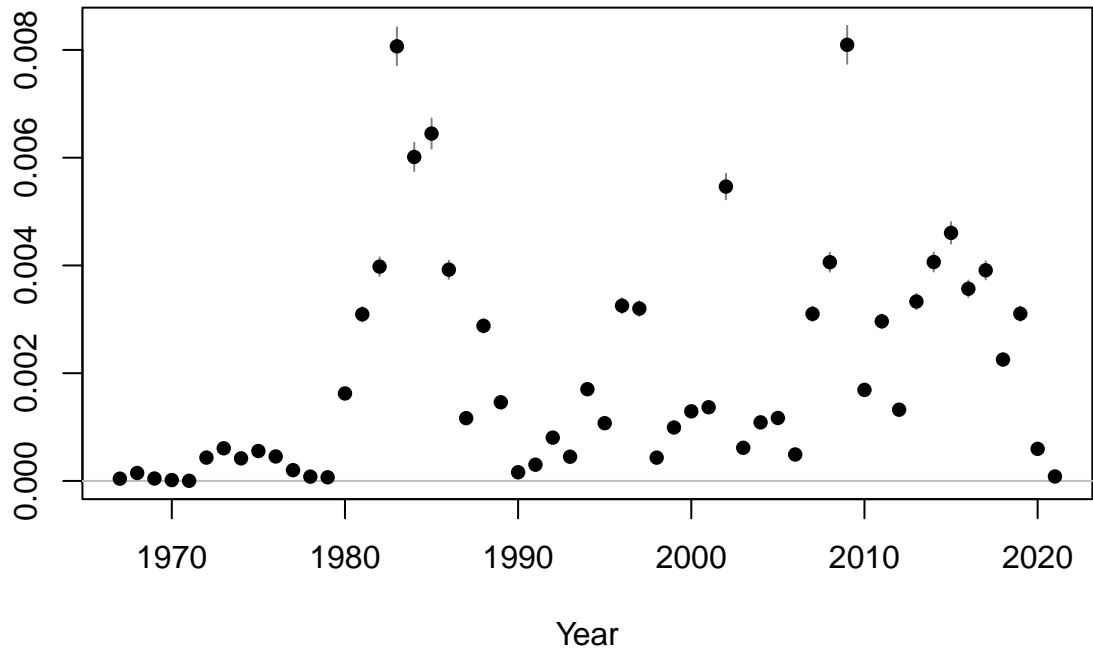


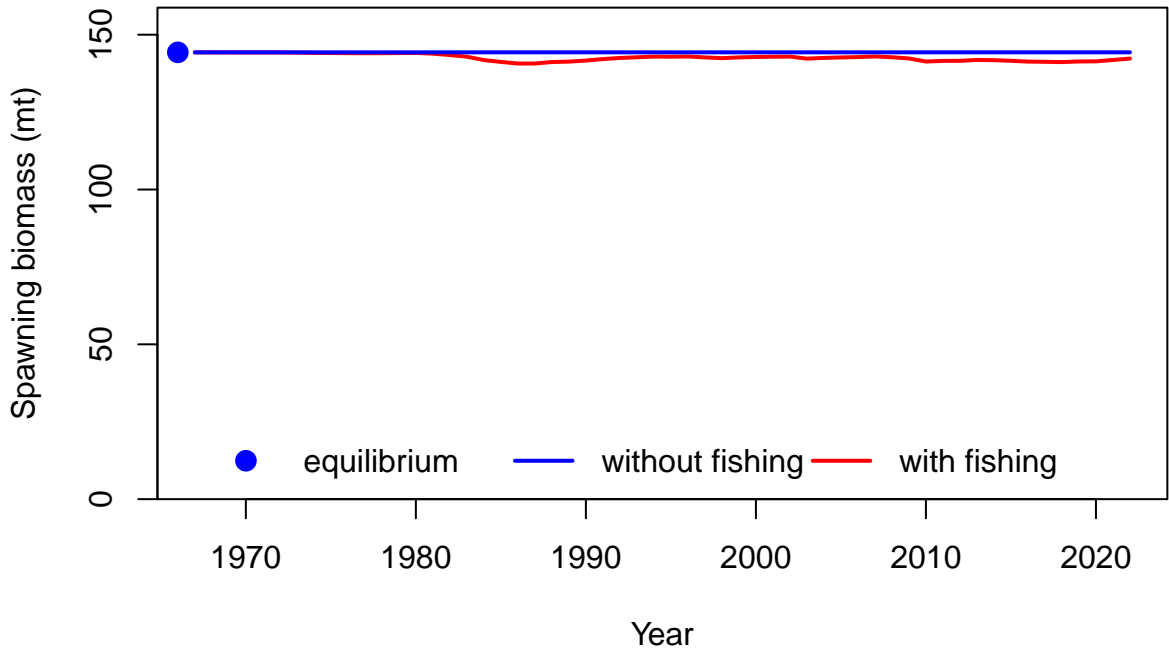


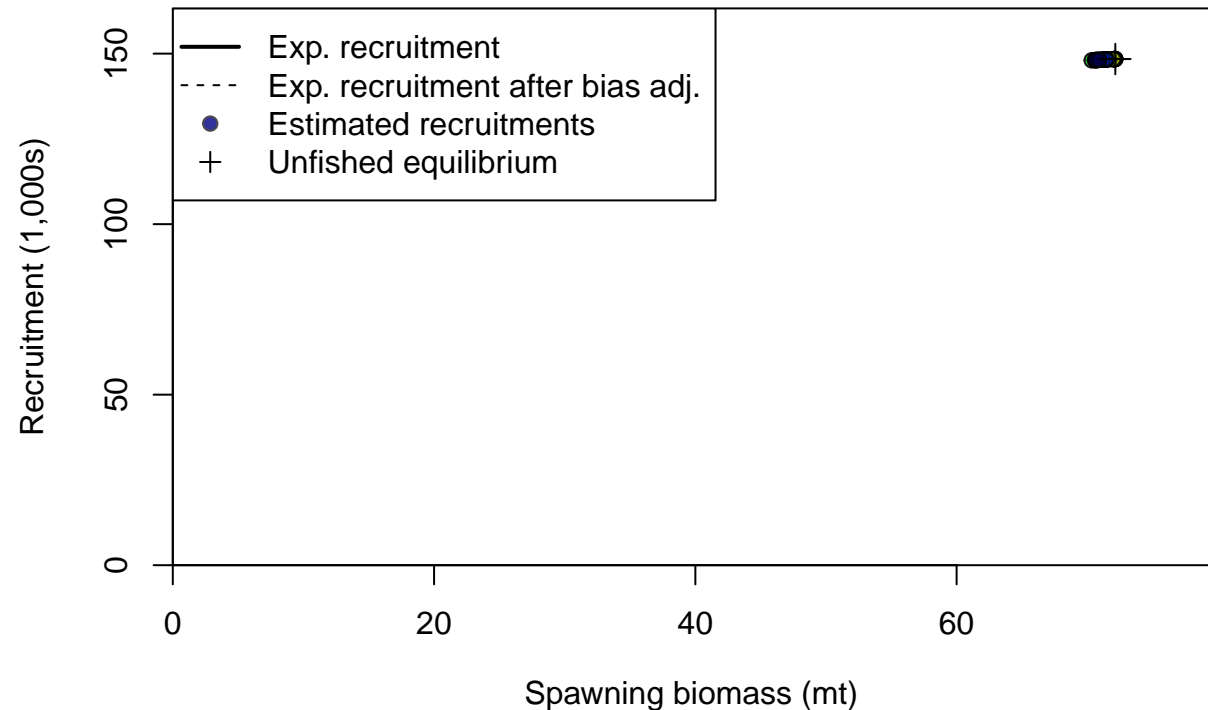


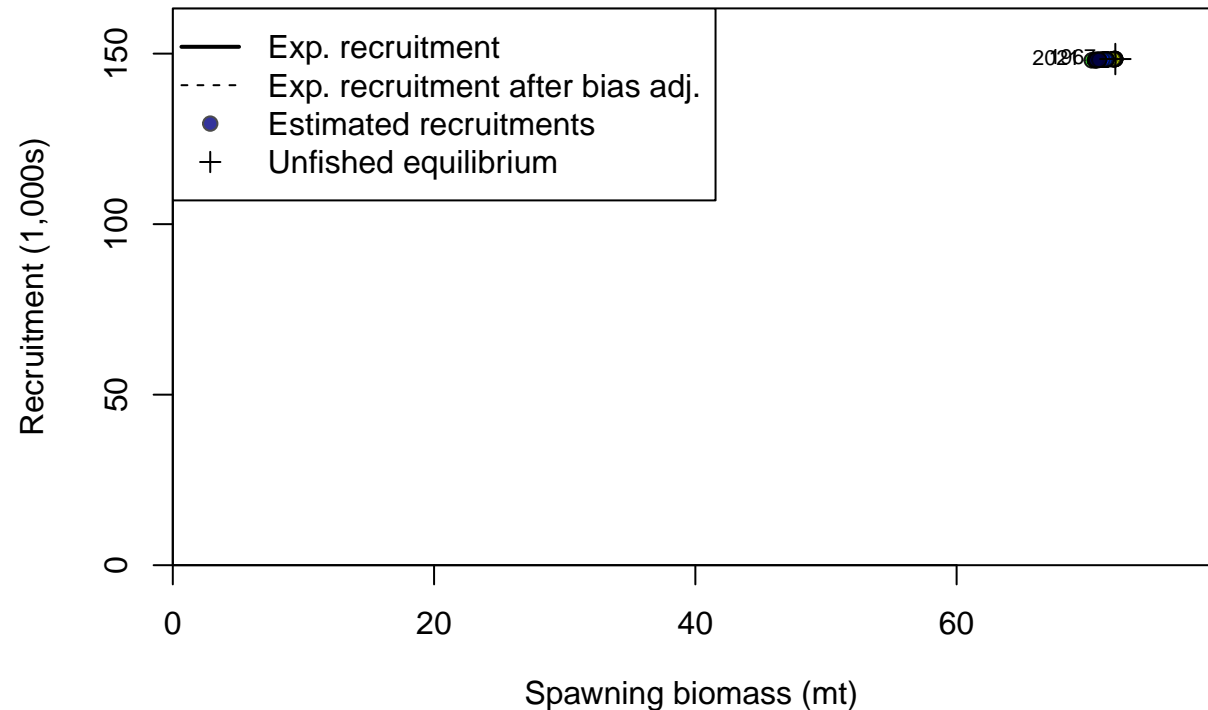


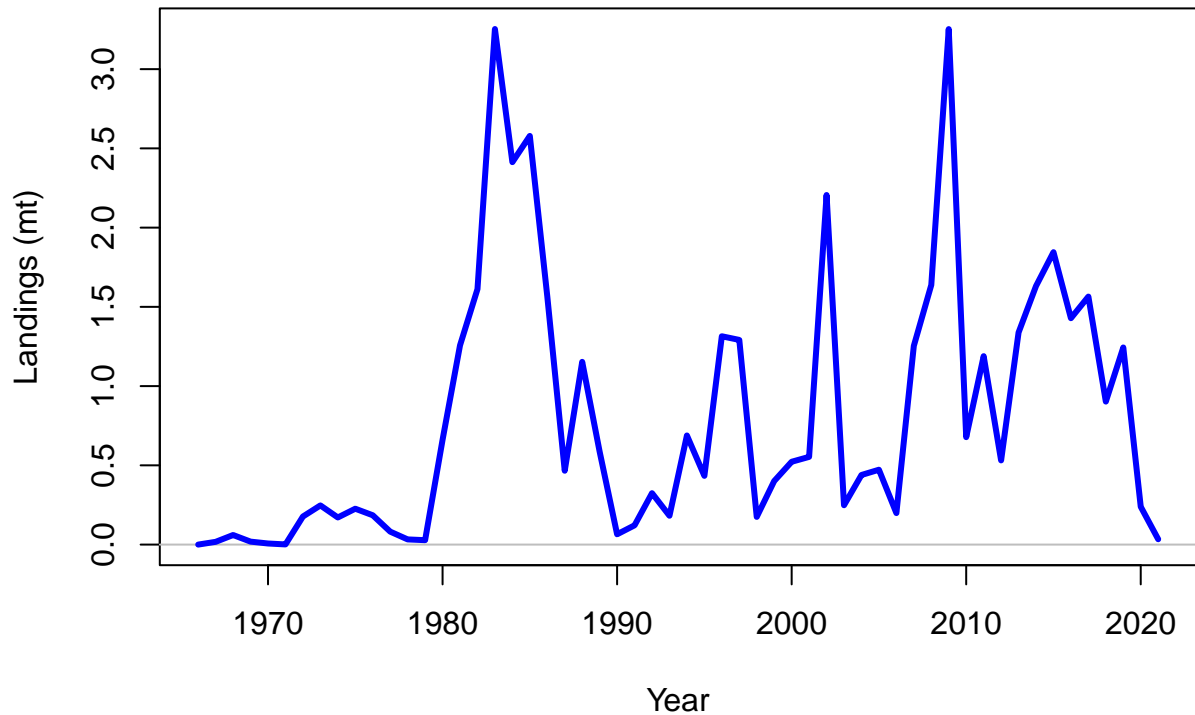
Summary Fishing Mortality

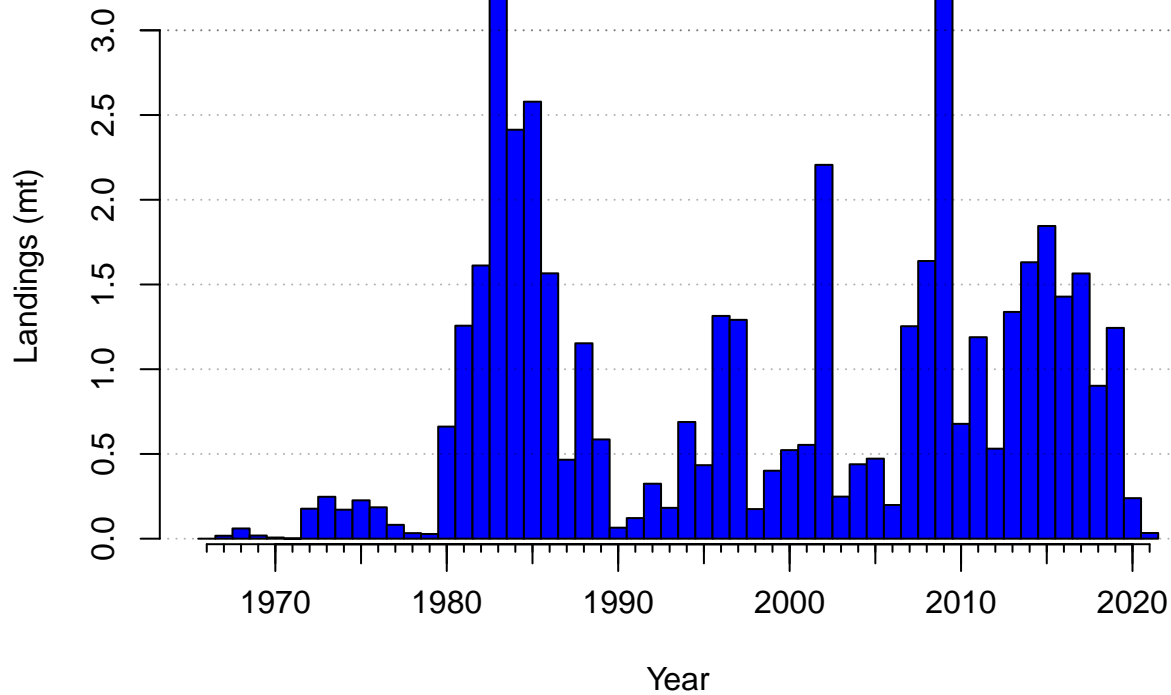


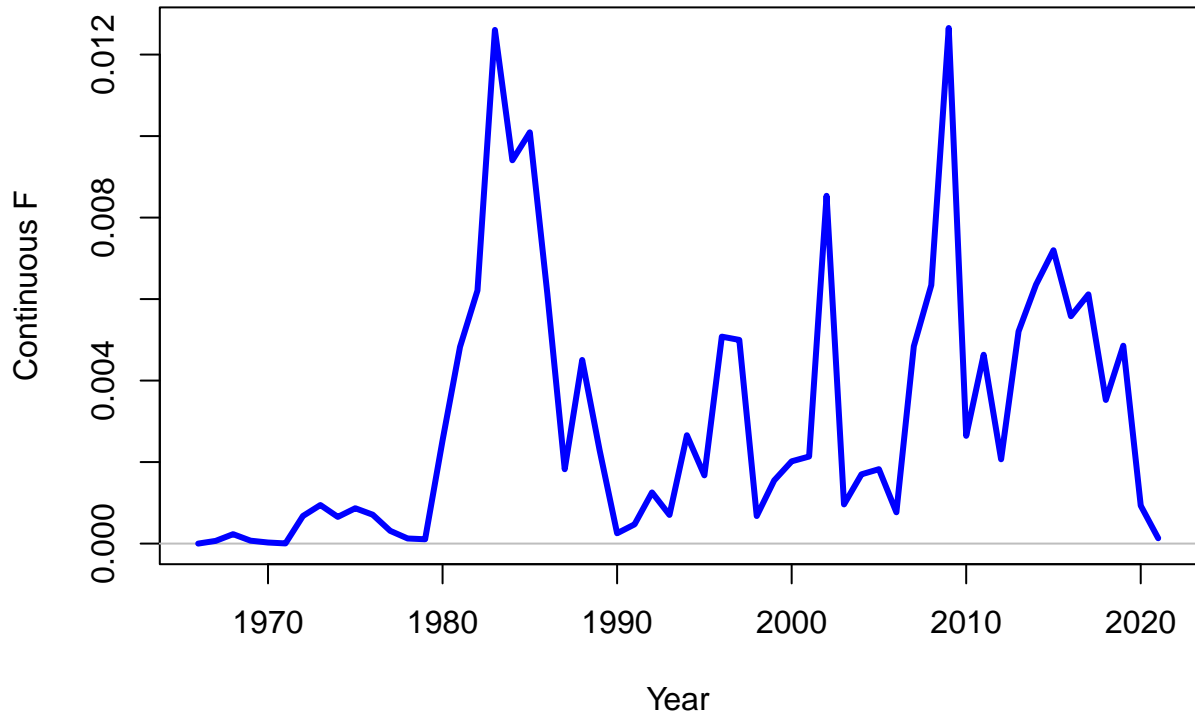




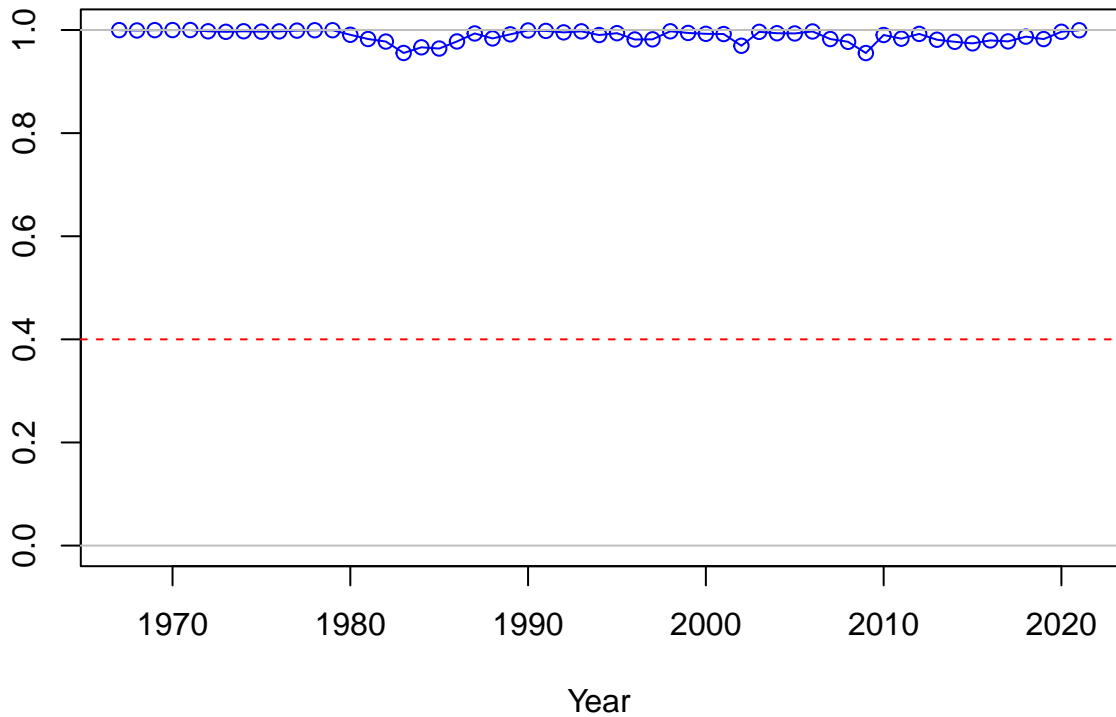


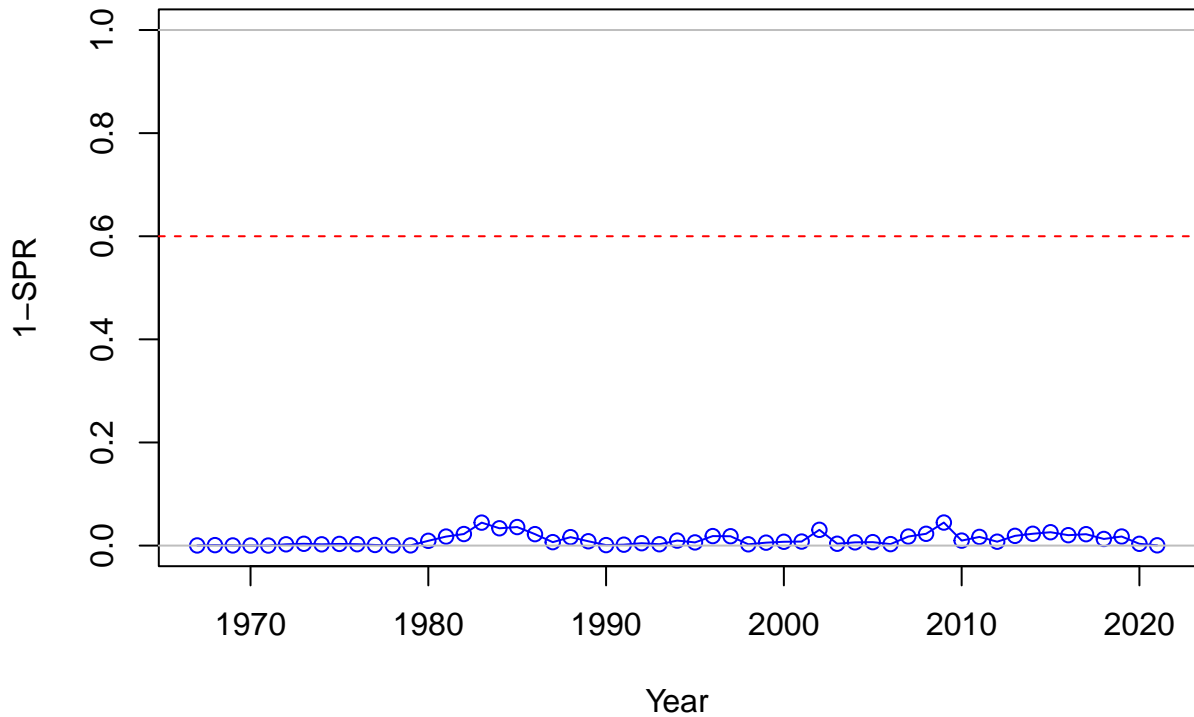




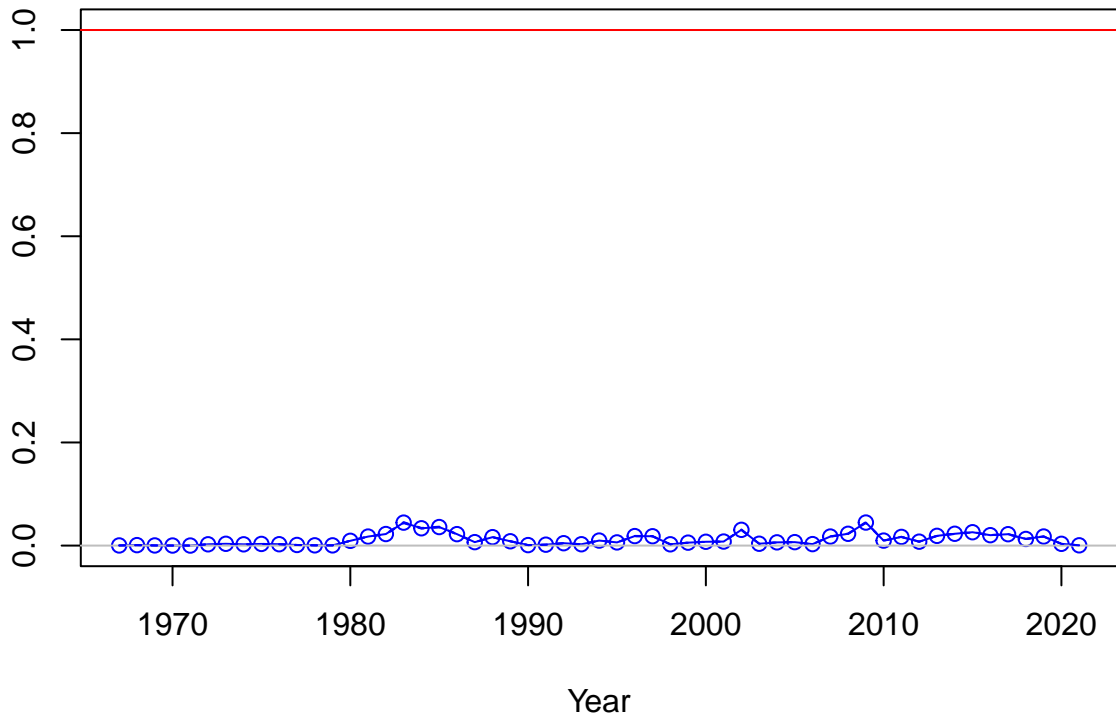


SPR

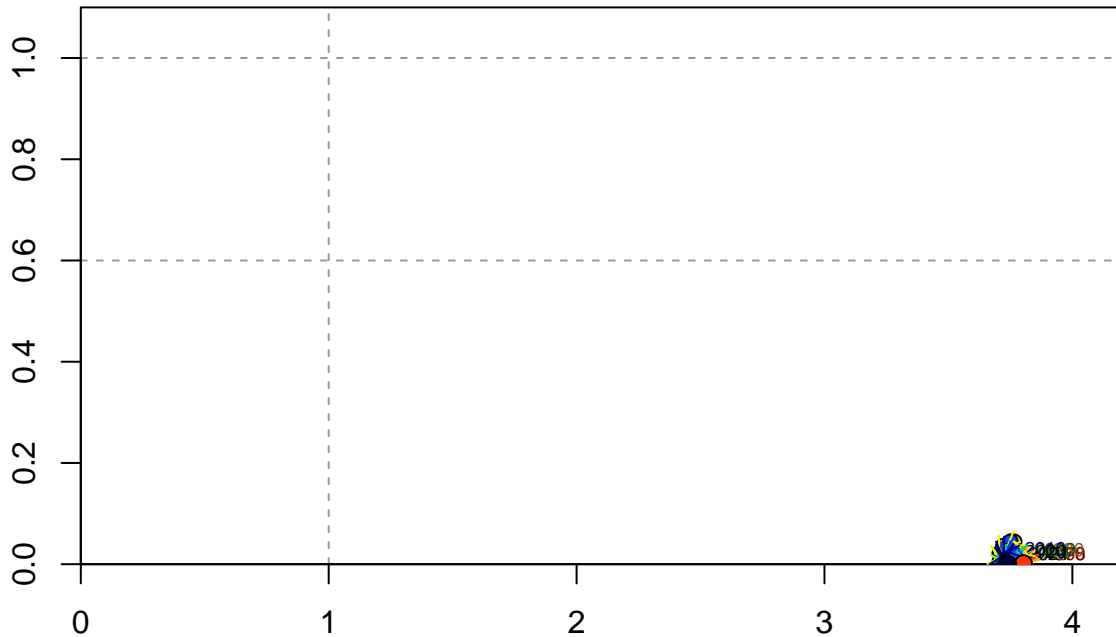




Fishing intensity: 1-SPR

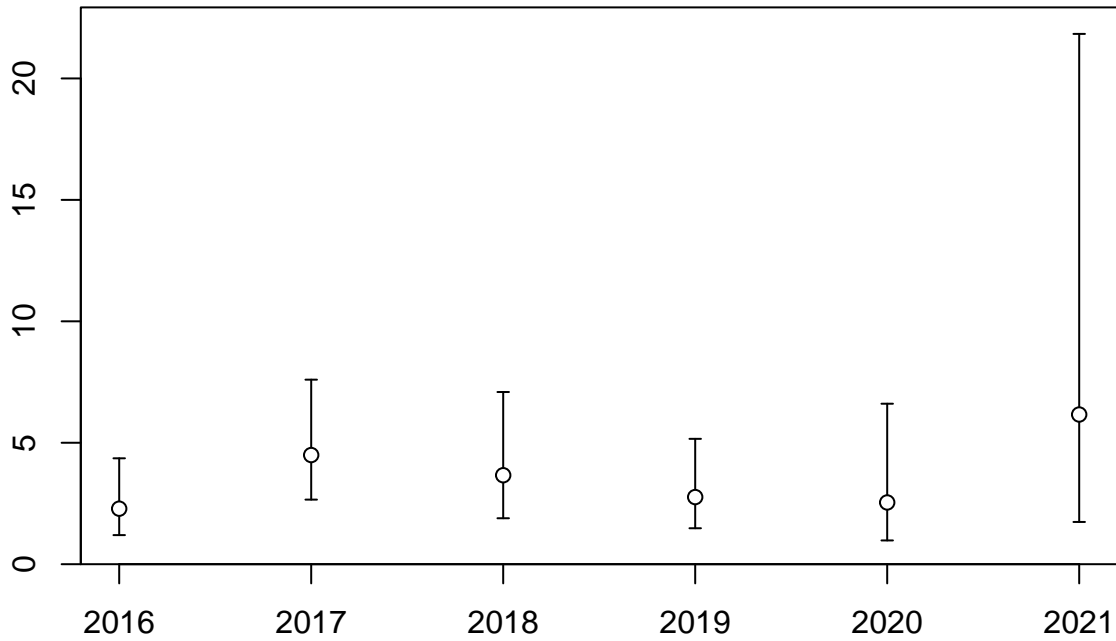


Fishing intensity: 1-SPR

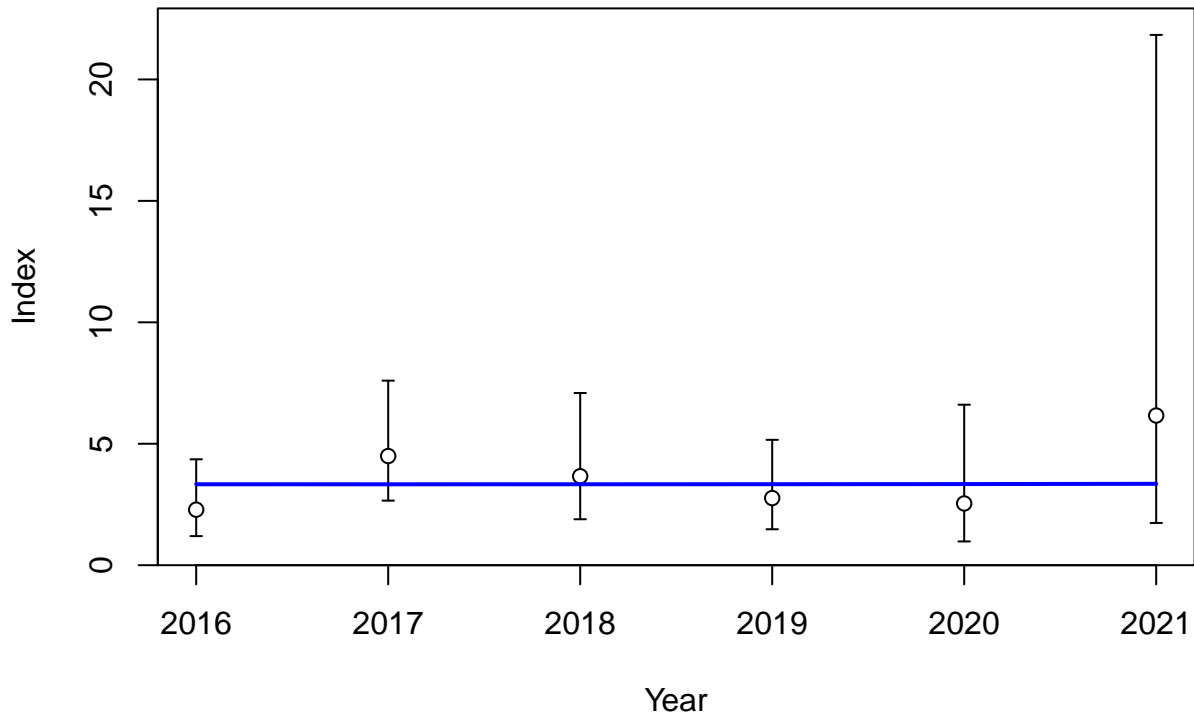


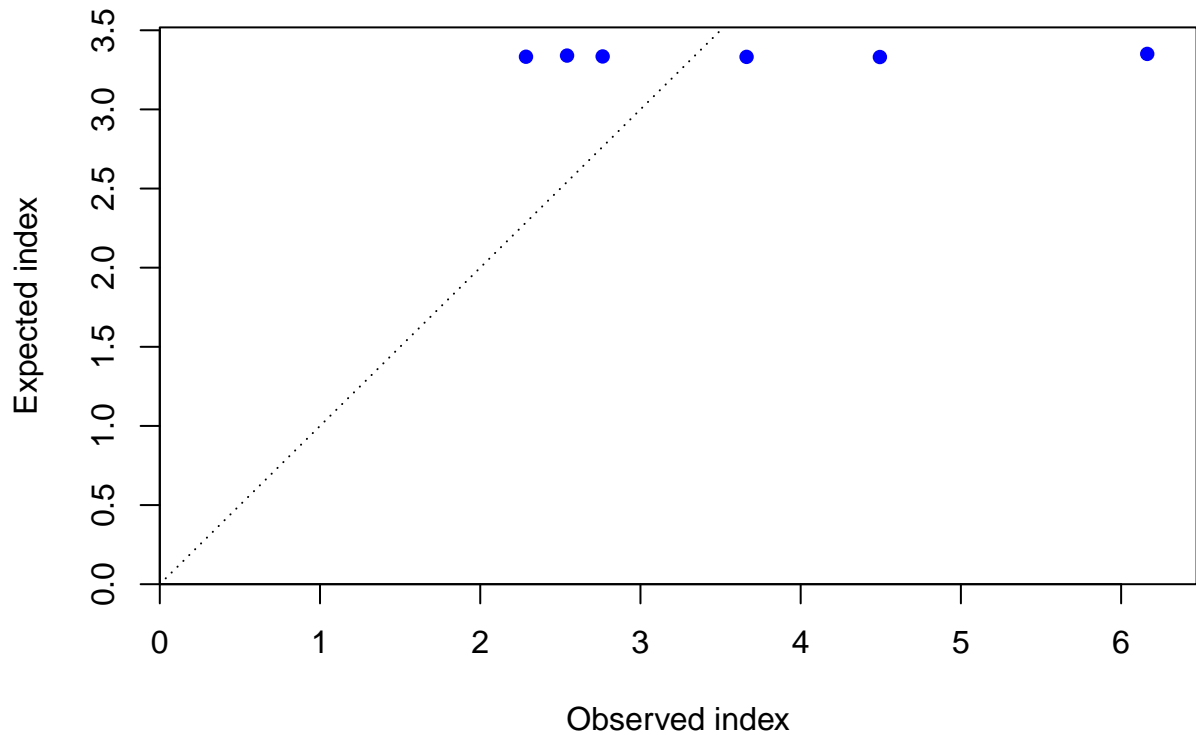
Relative spawning output: B/B_{MSY}

Index



Year





Log index

3.0
2.5
2.0
1.5
1.0
0.5
0.0

2016

2017

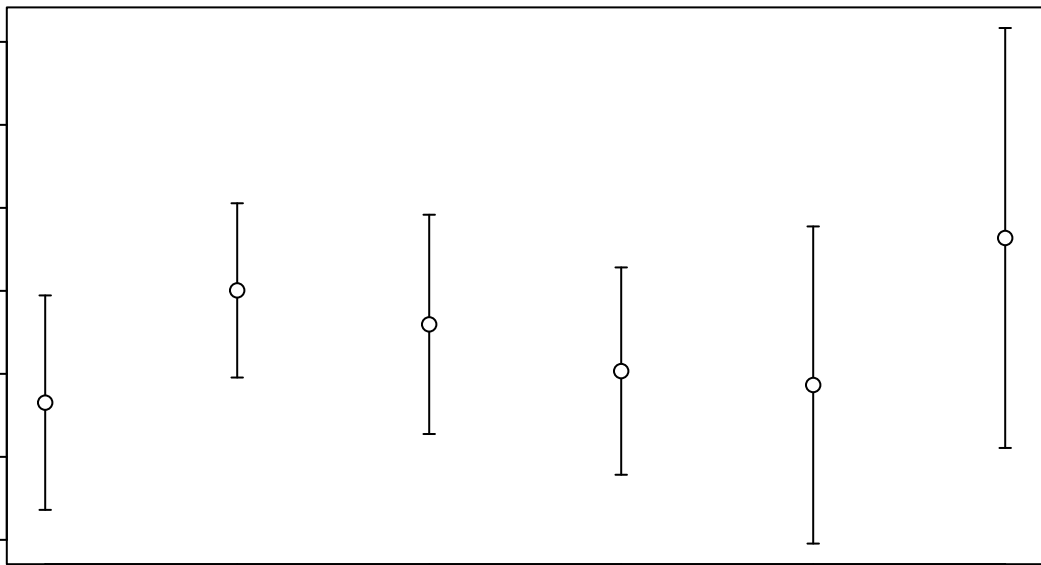
2018

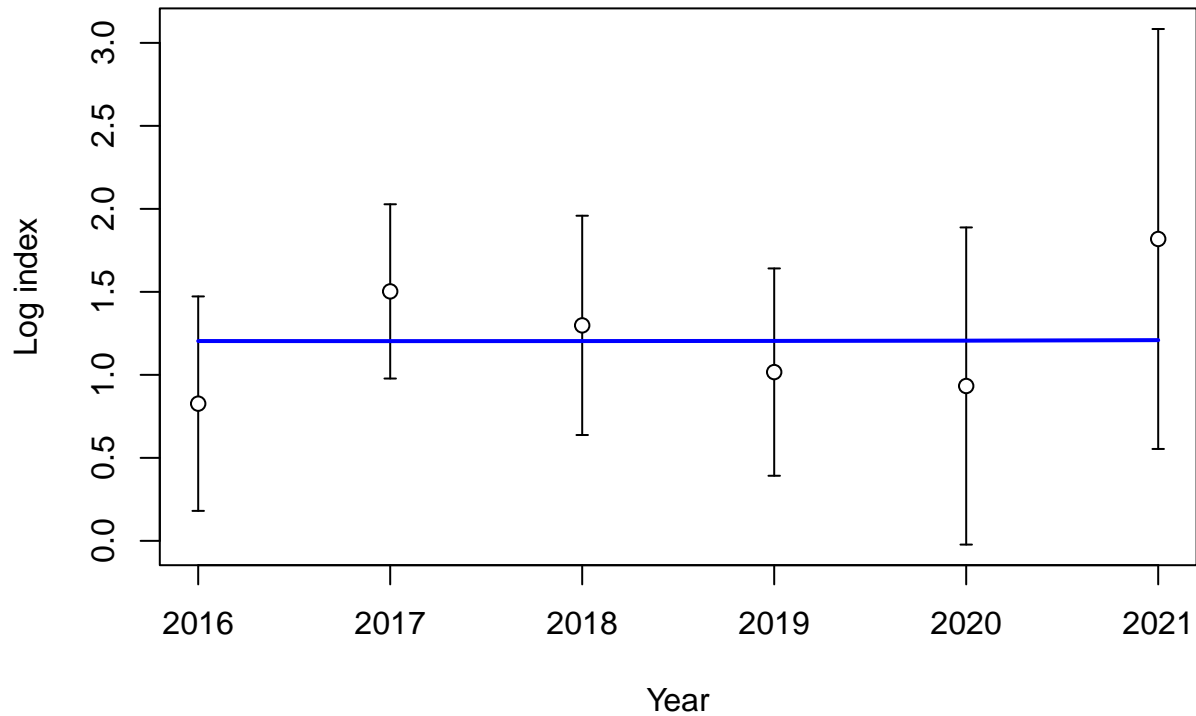
2019

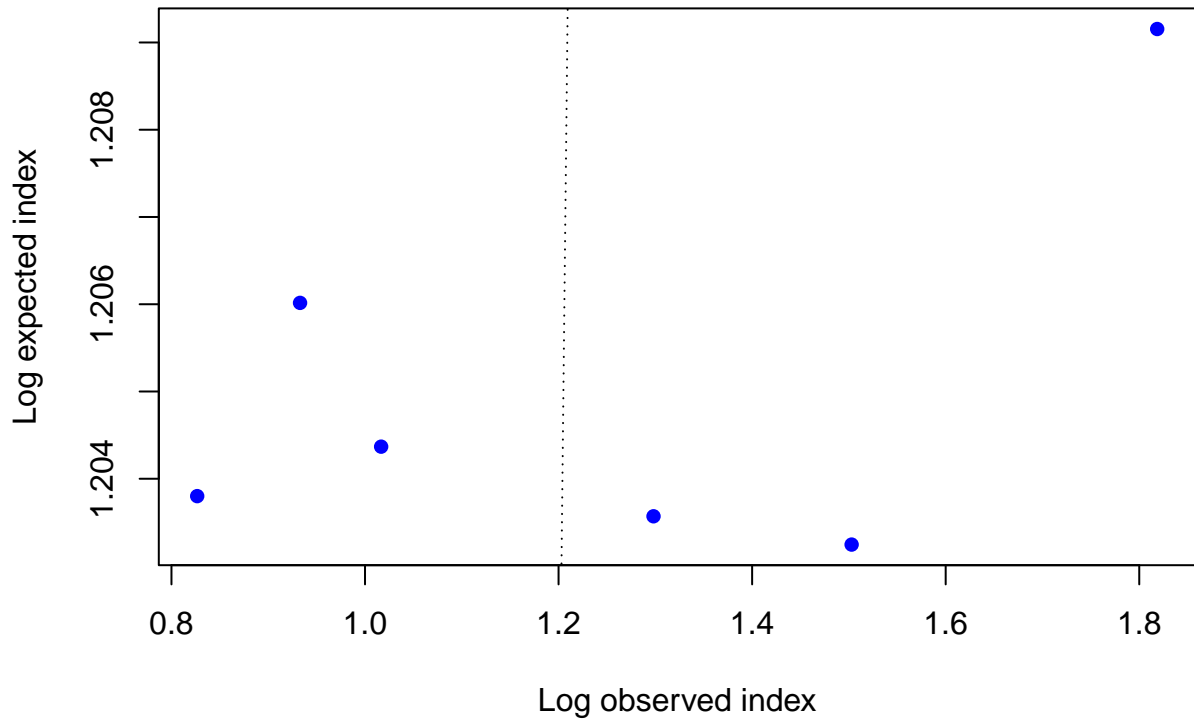
2020

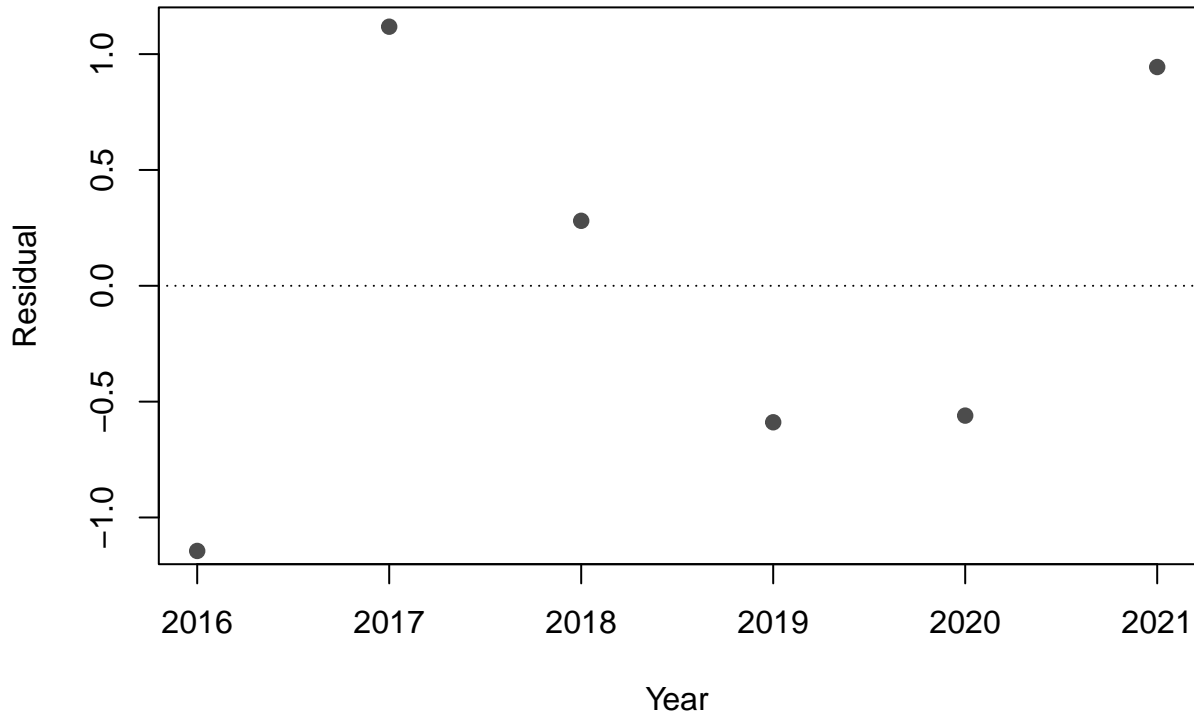
2021

Year

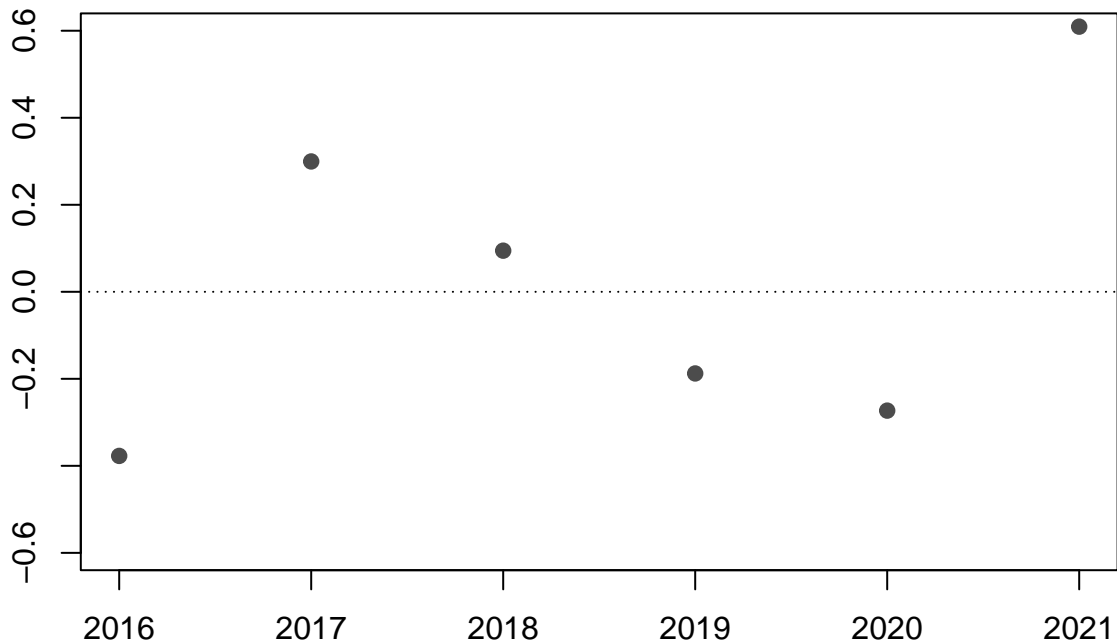




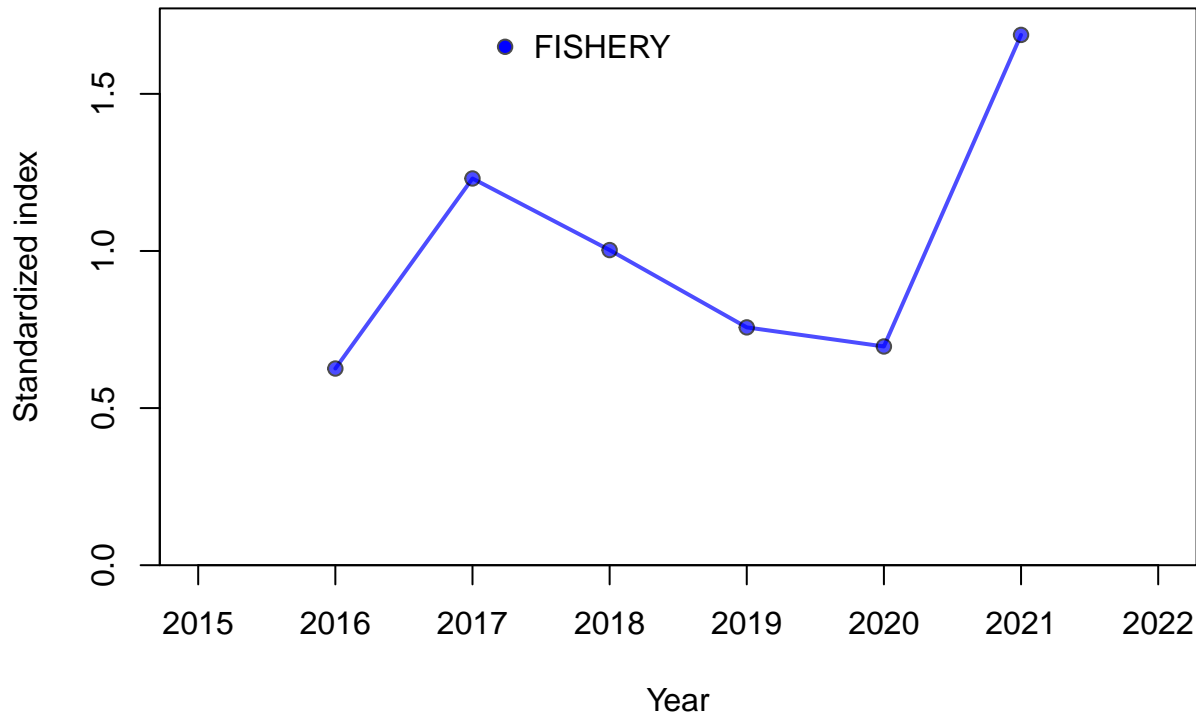




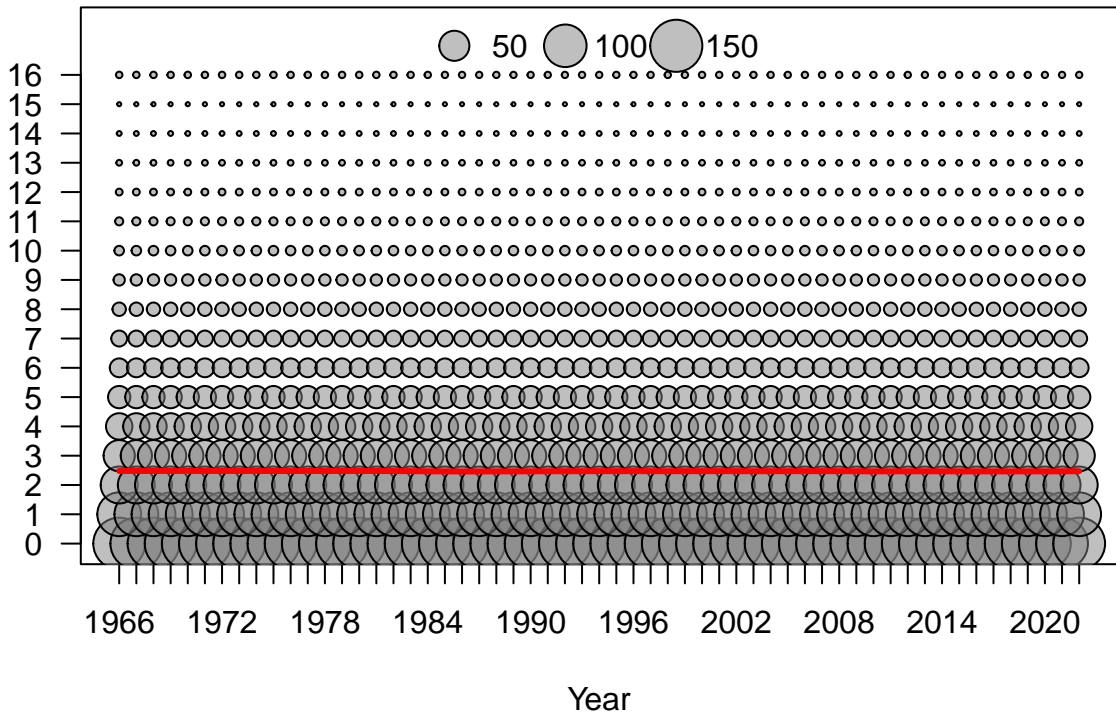
Deviation



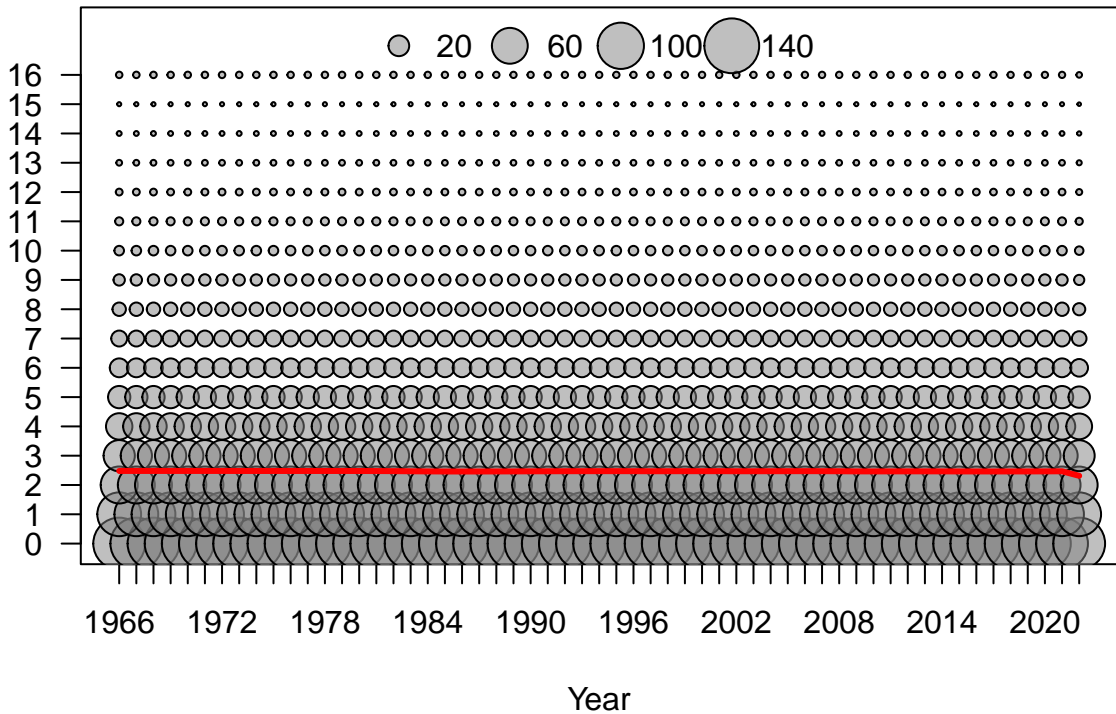
Year

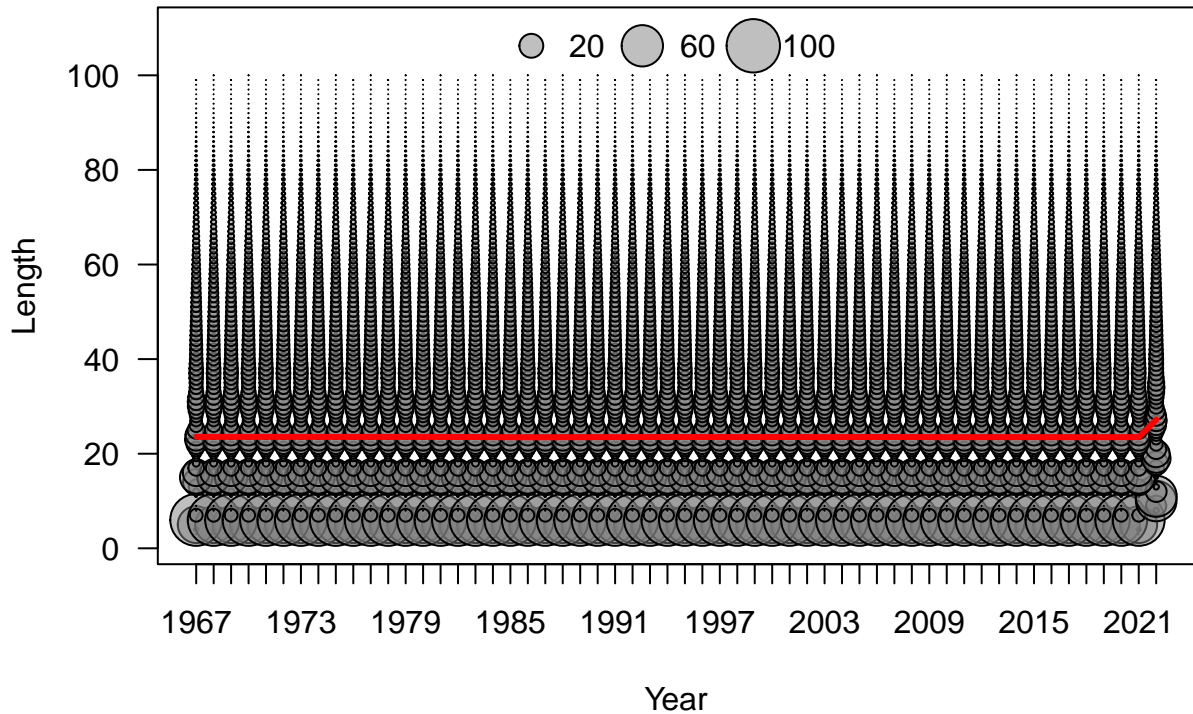


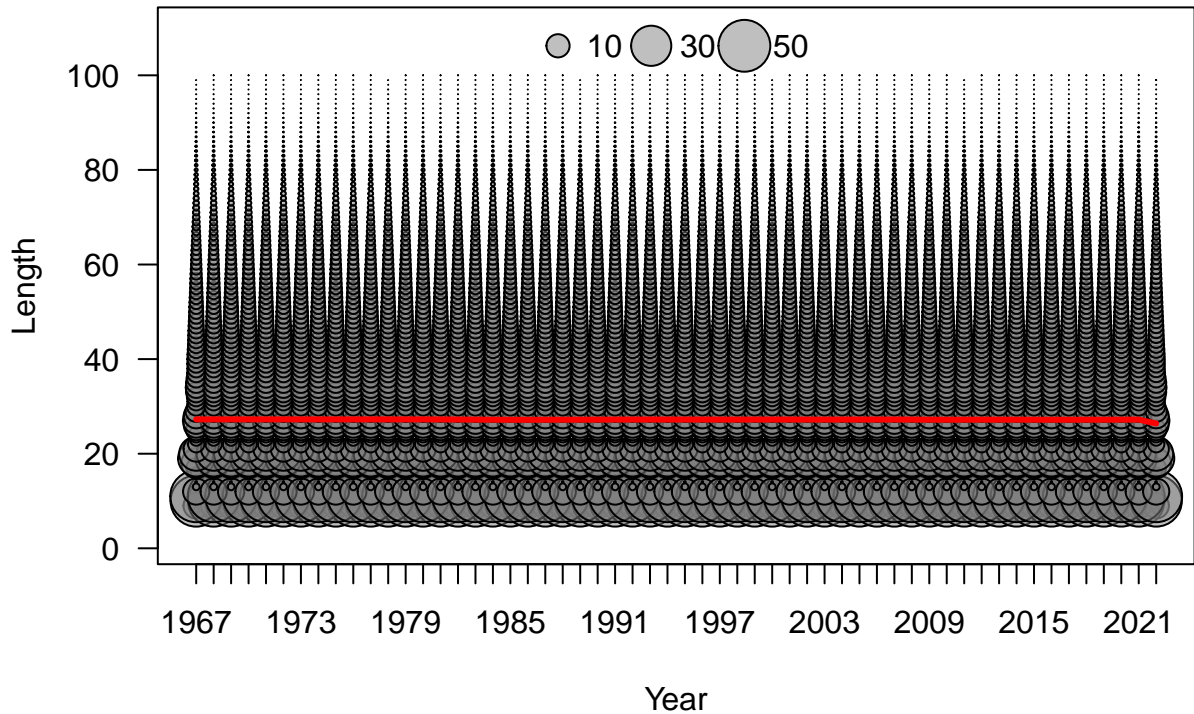
Age

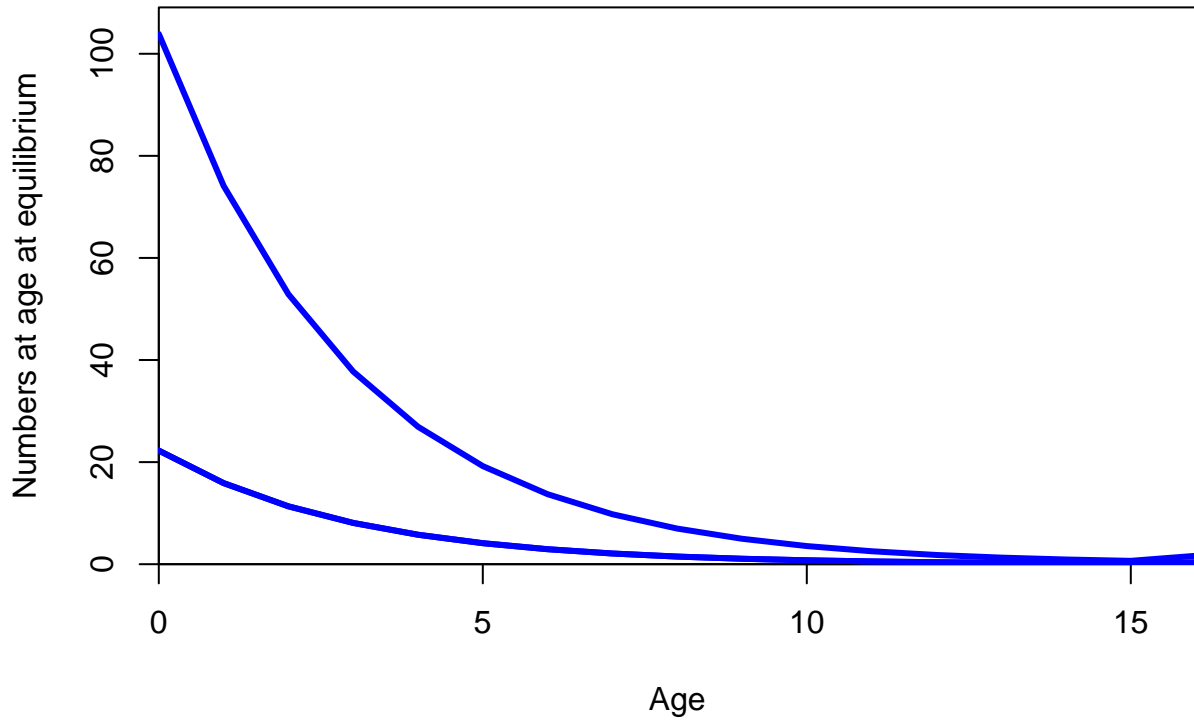


Age



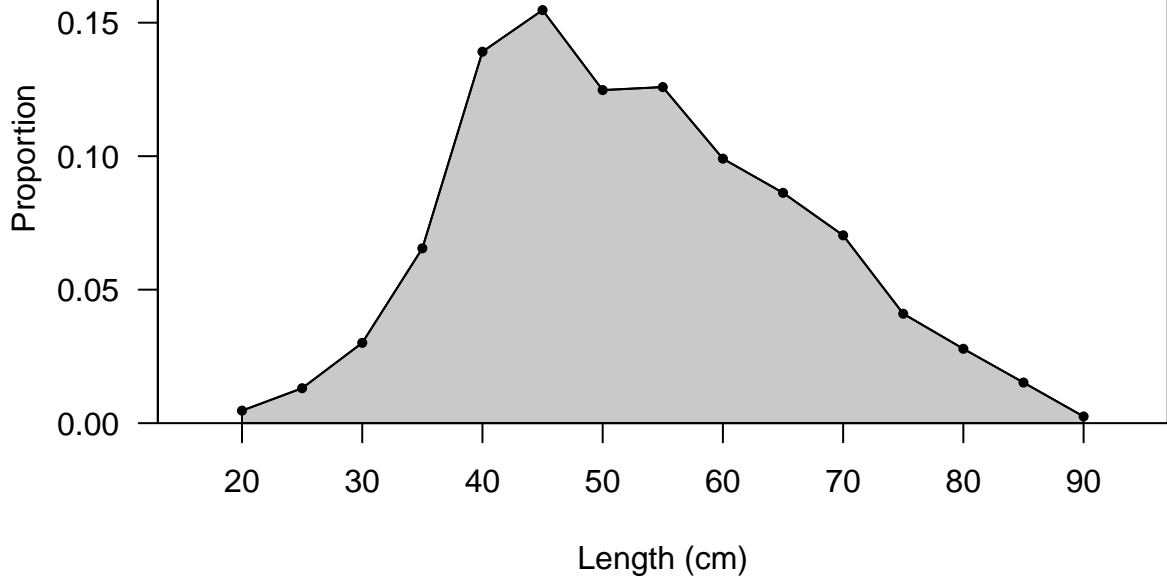






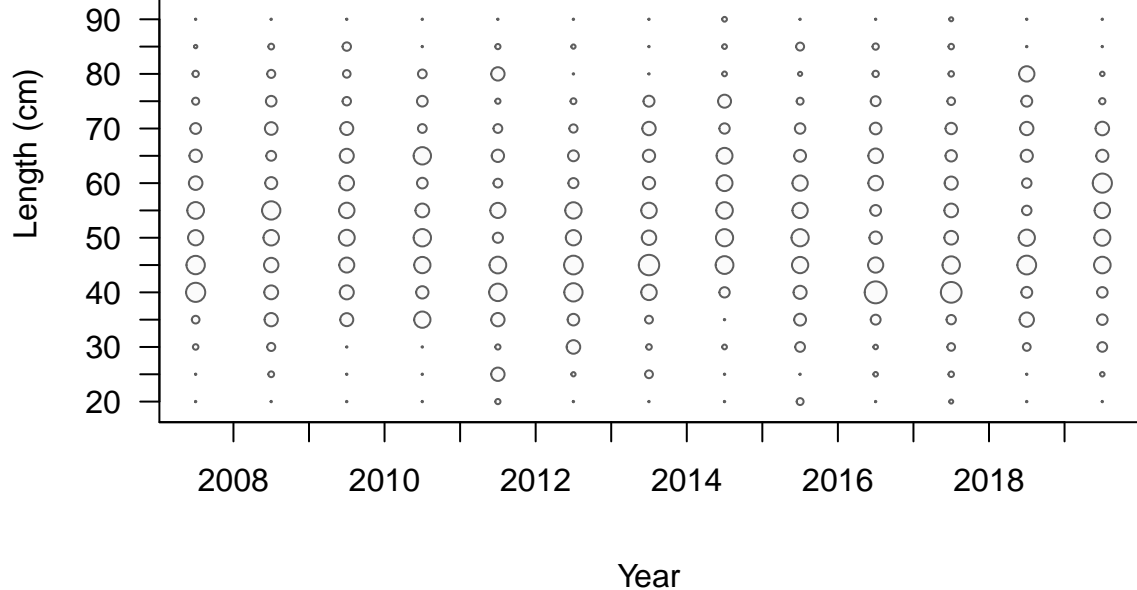
FISHERY

Sum of N input=1078

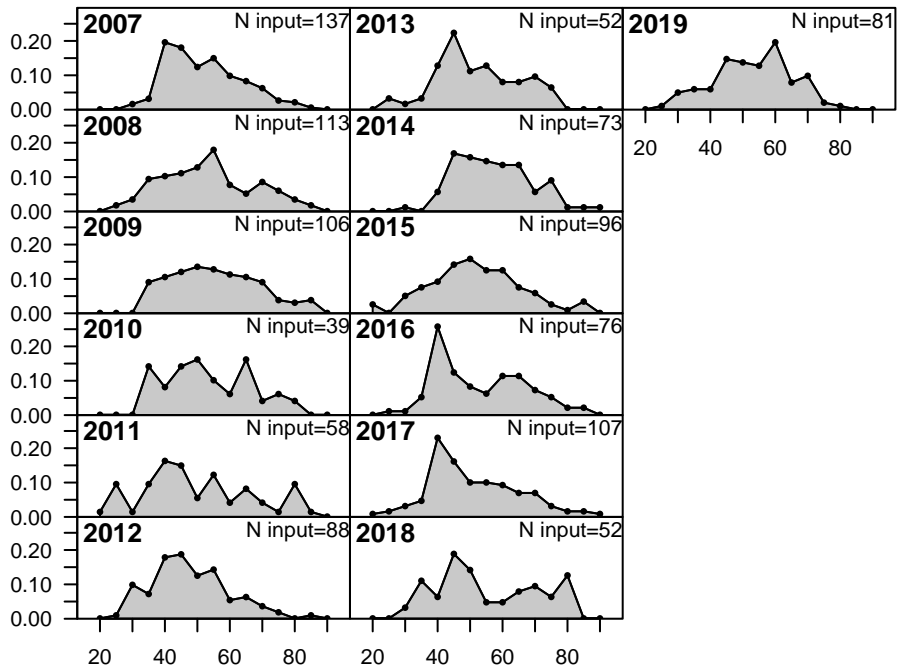


FISHERY

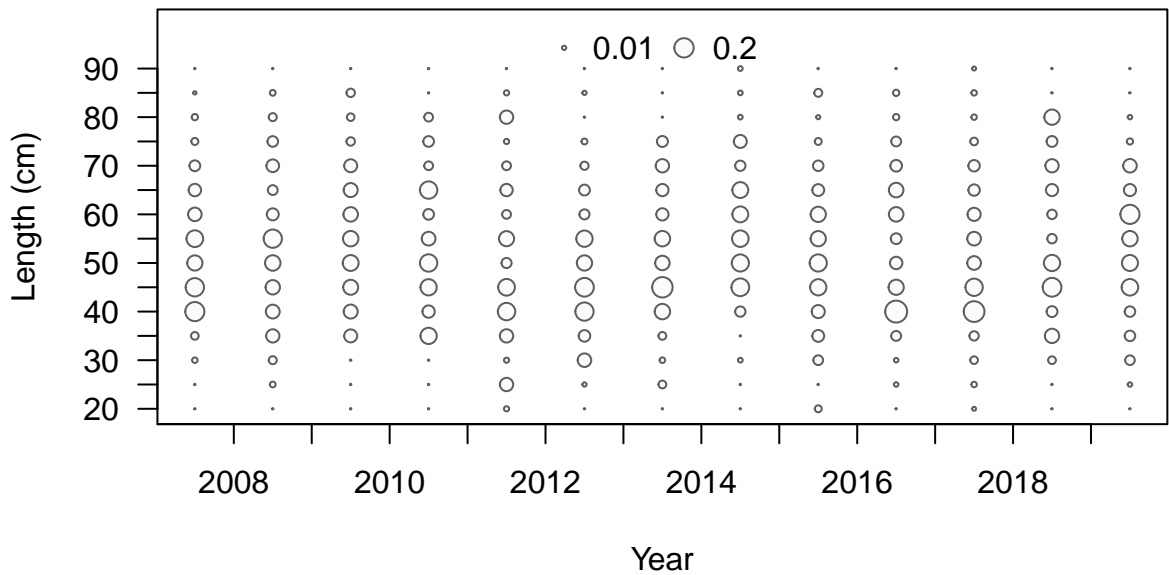
◦ 0.01 ○ 0.2



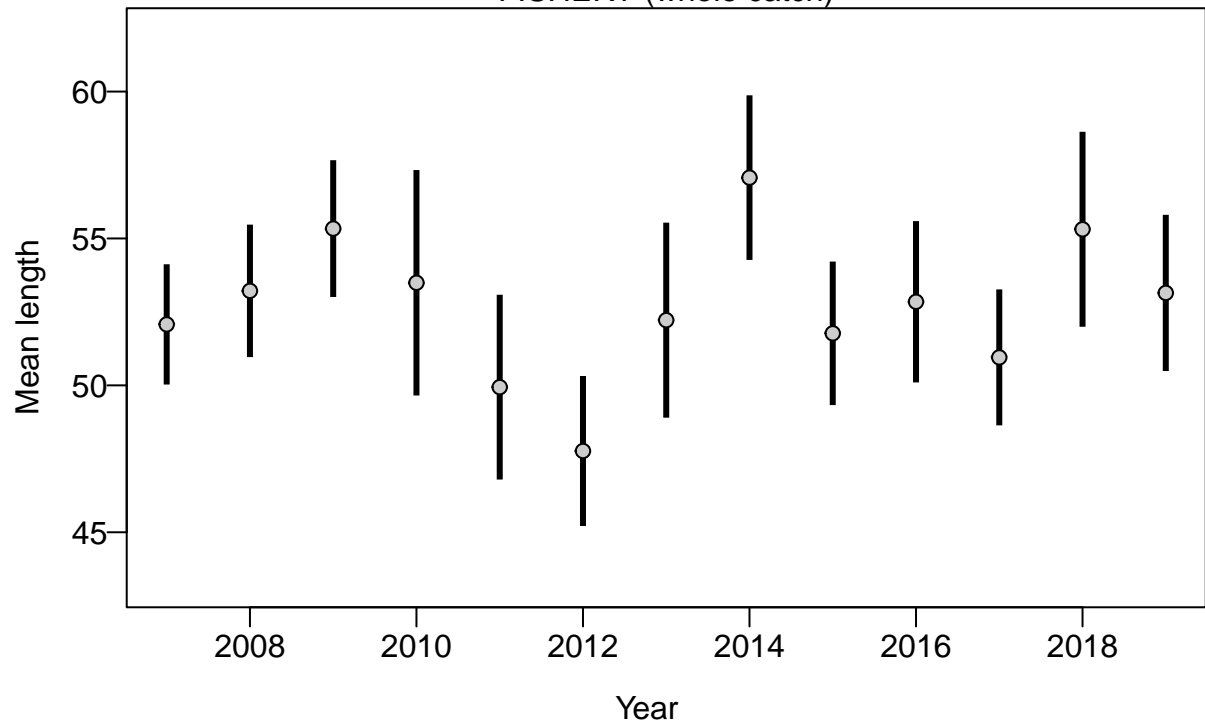
Proportion

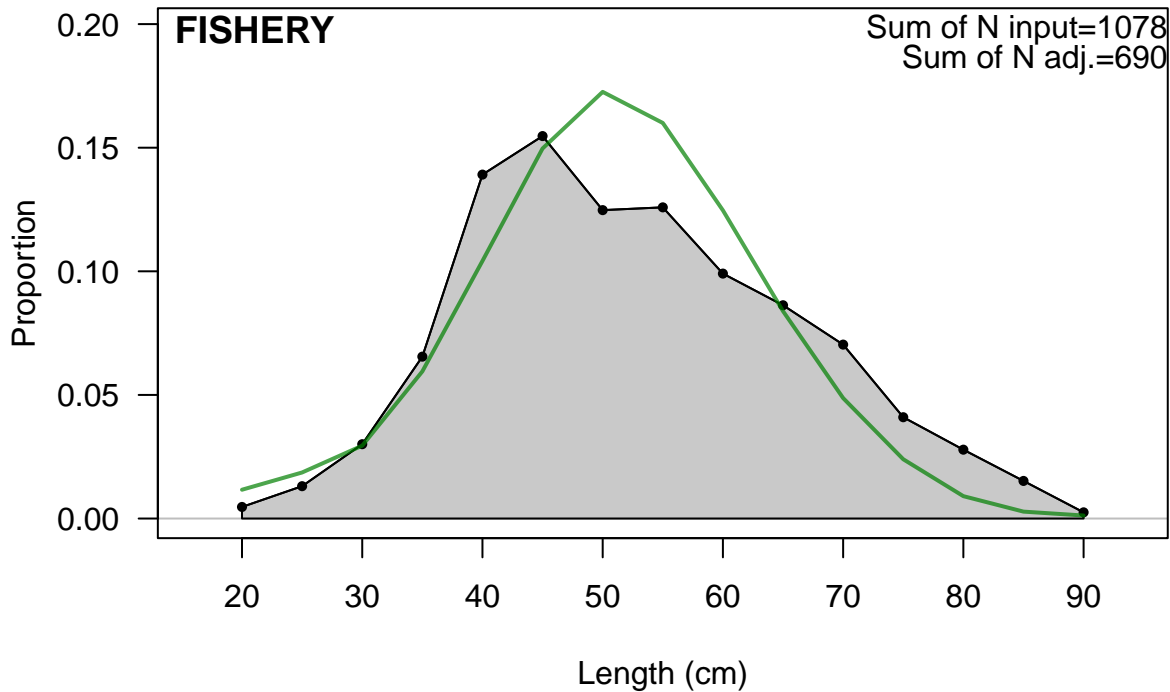


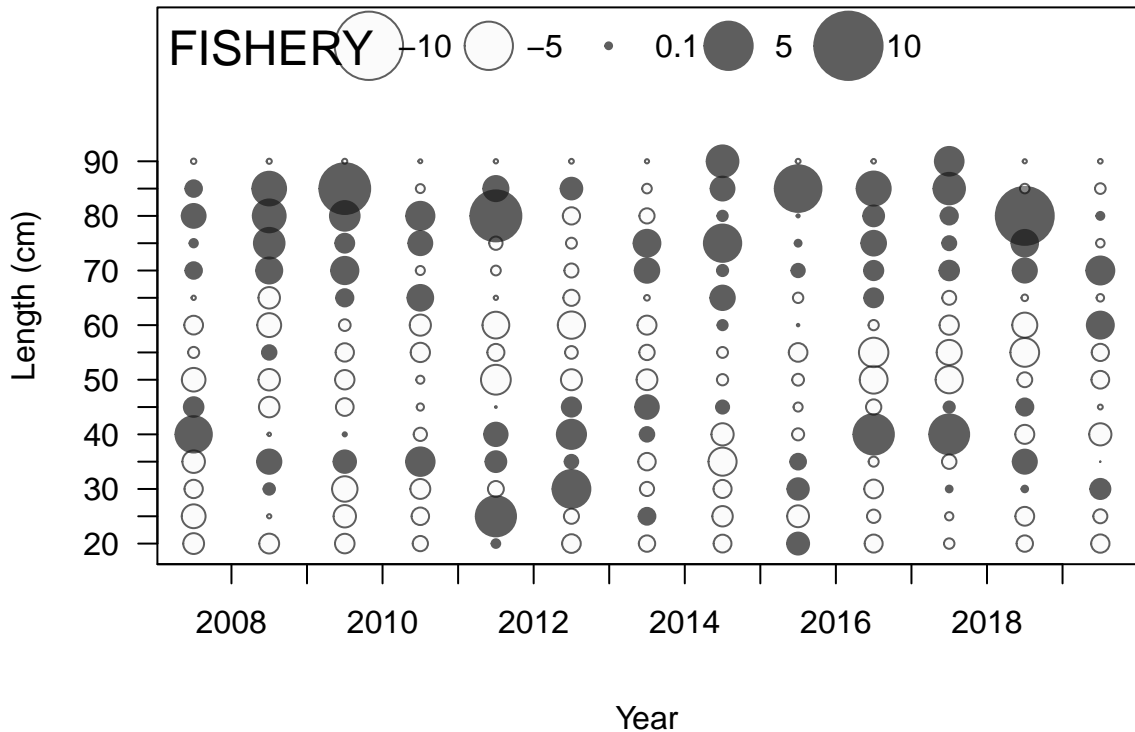
Length (cm)

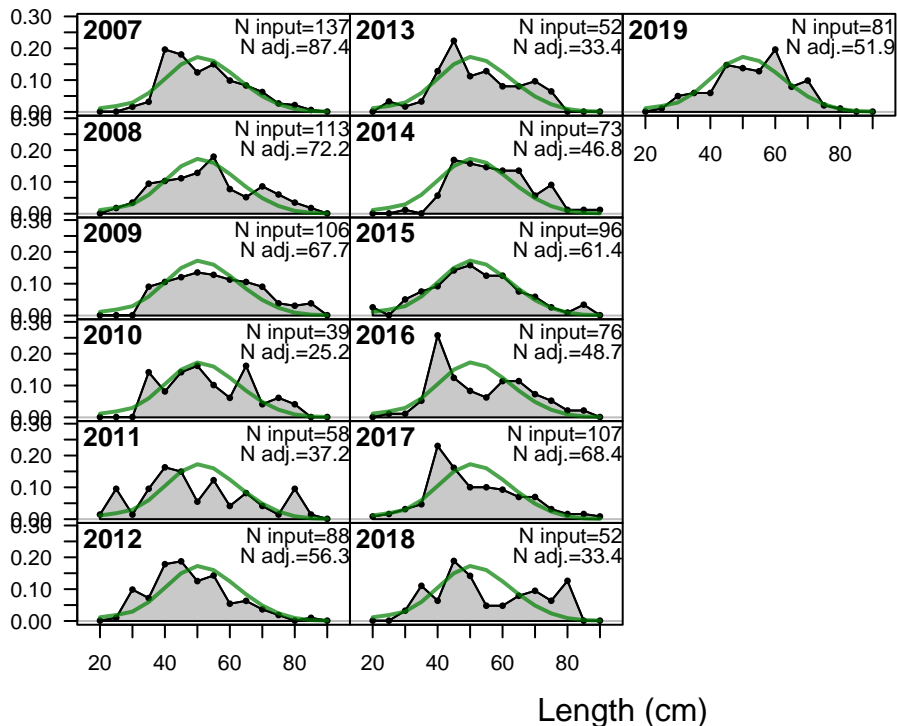


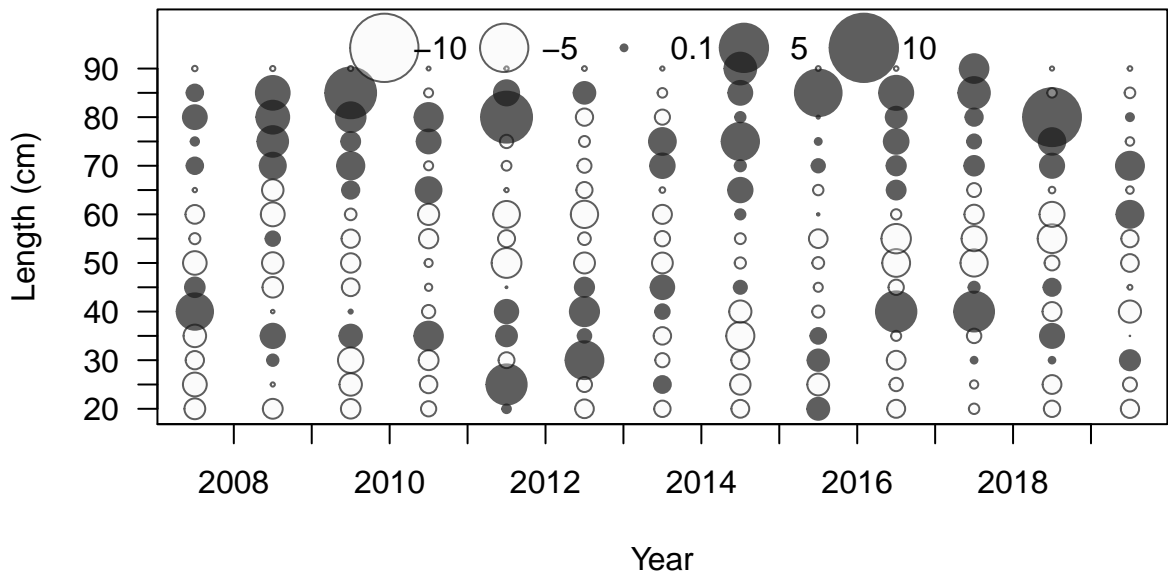
FISHERY (whole catch)



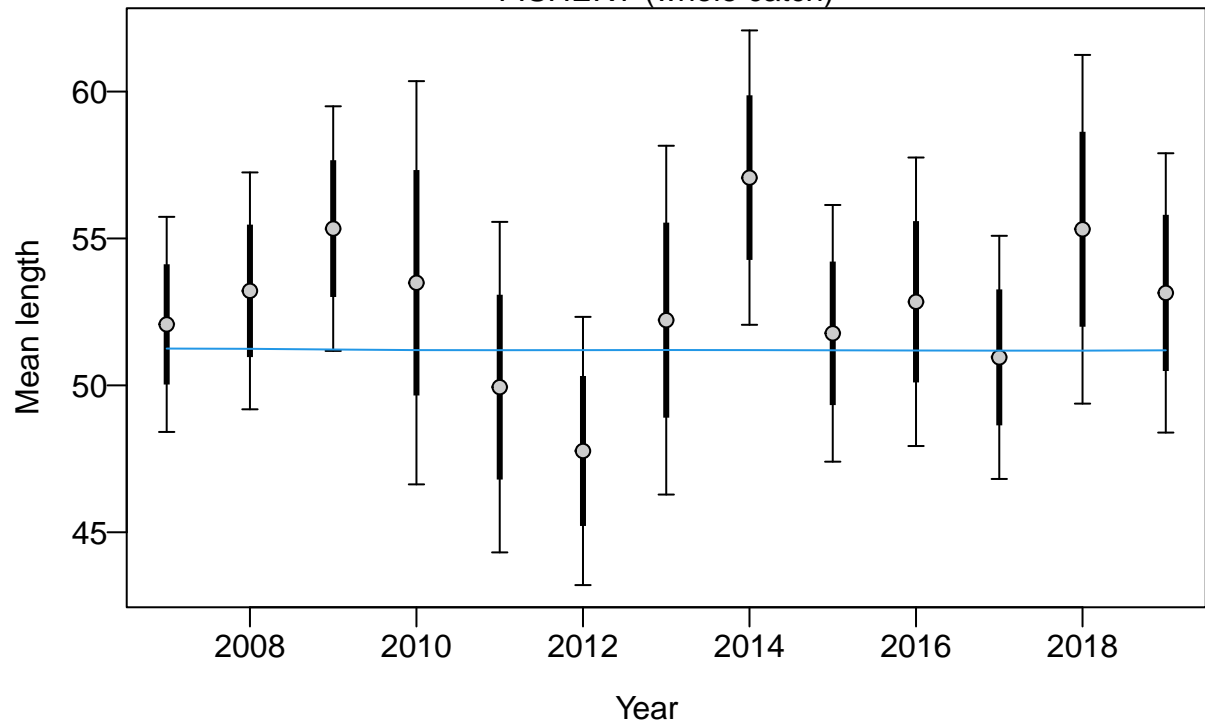


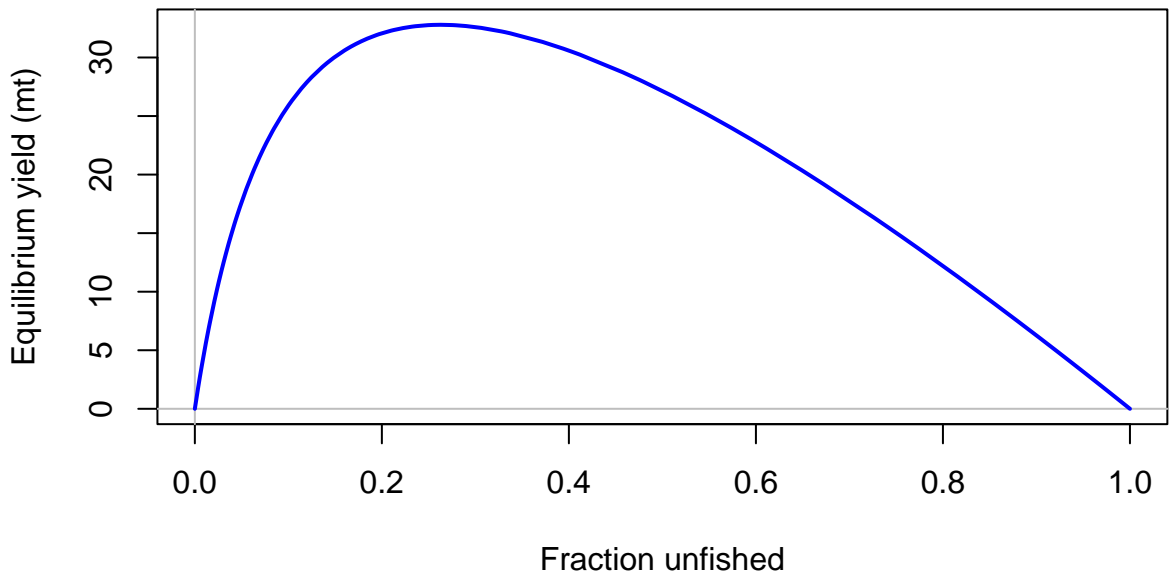


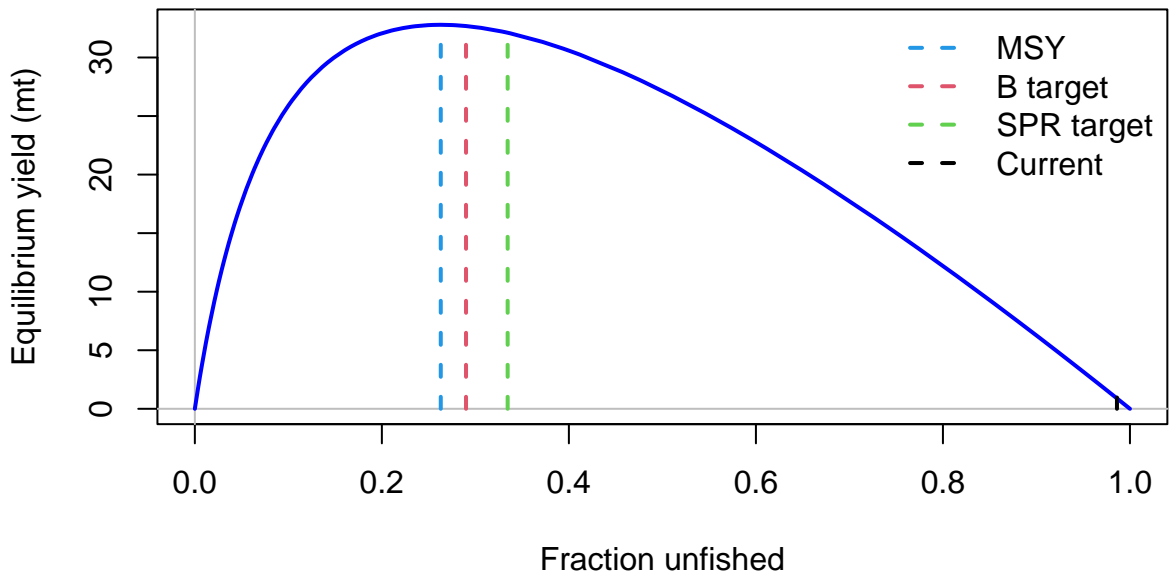


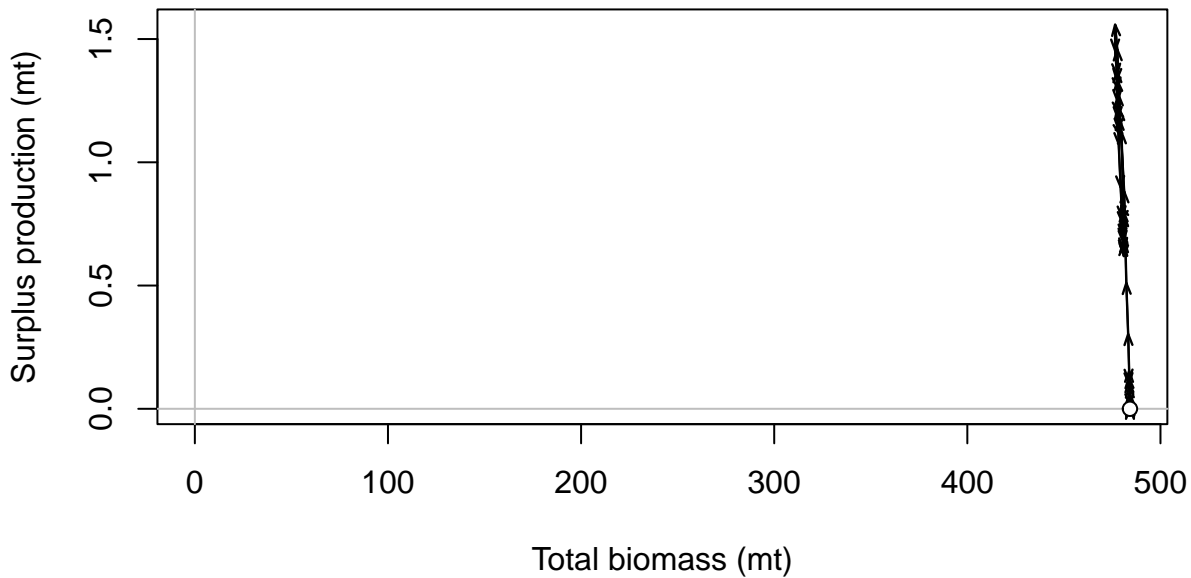


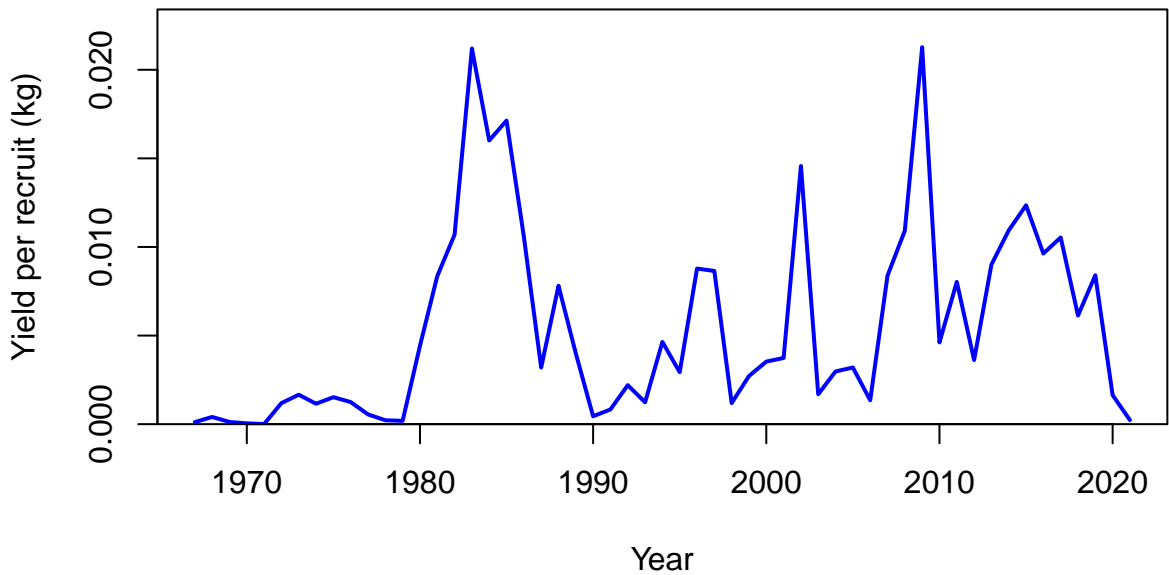
FISHERY (whole catch)

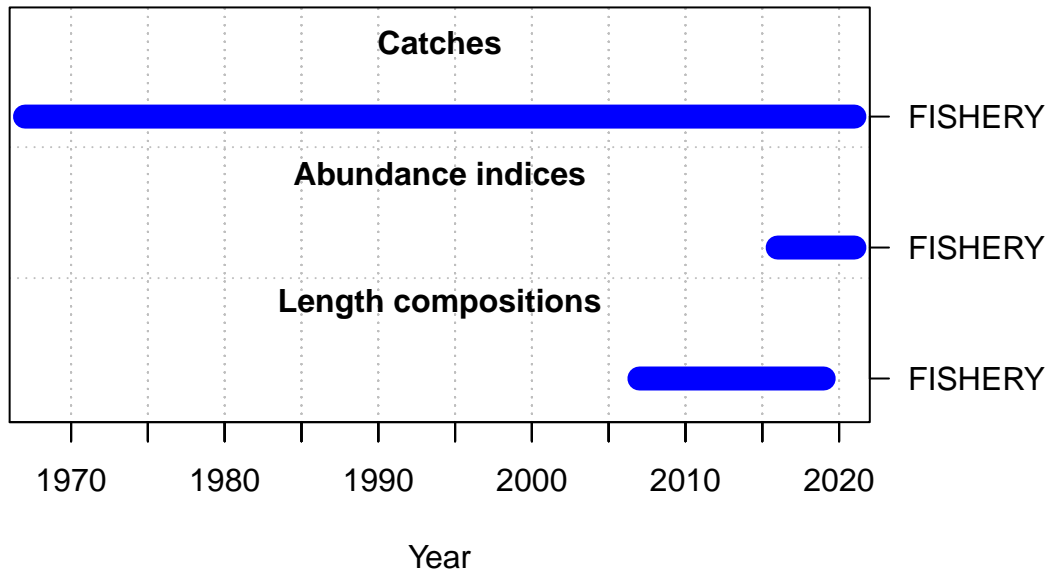


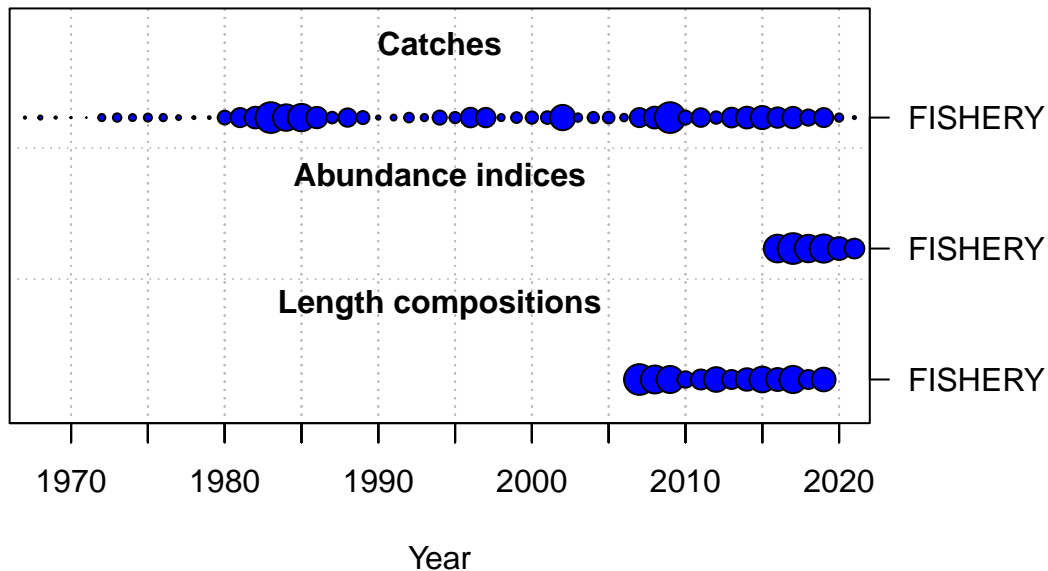








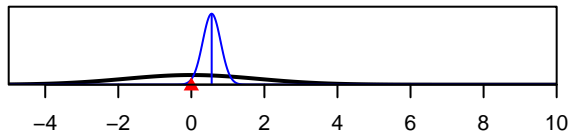




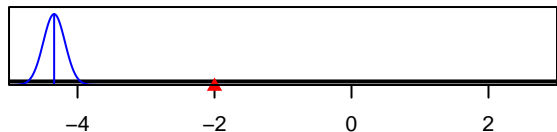
SR_LN(R0)



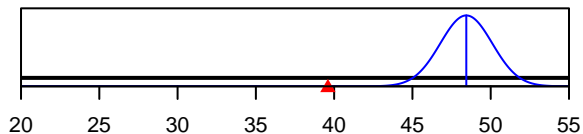
ln(DM_theta)_1



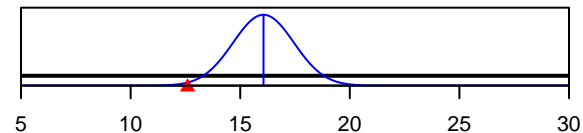
LnQ_base_FISHERY(1)



Size_inflection_FISHERY(1)



Size_95%width_FISHERY(1)



Parameter value