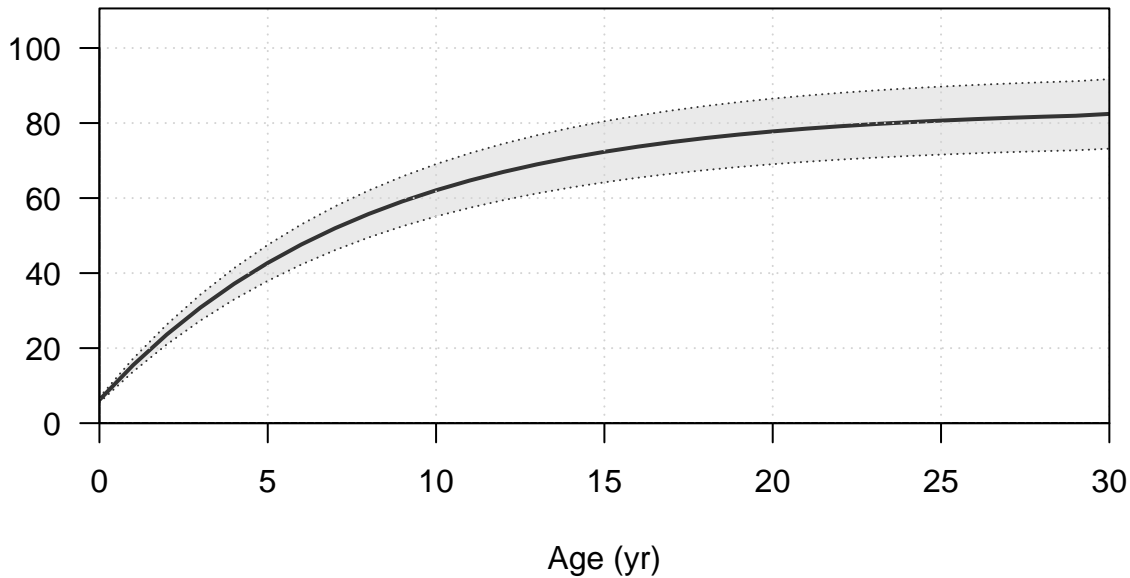


Plots created using the 'r4ss' package in R
Stock Synthesis version: 3.30.19.0
StartTime: Sun Oct 16 09:41:36 2022
Data_File: data.ss
Control_File: control.ss

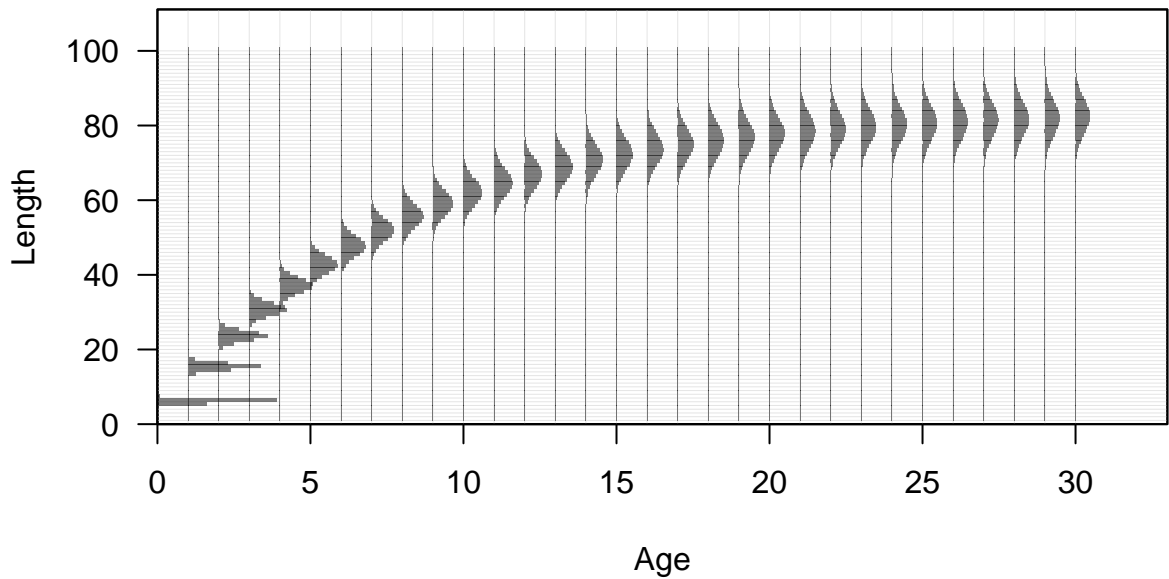
Length (cm, beginning of the year)

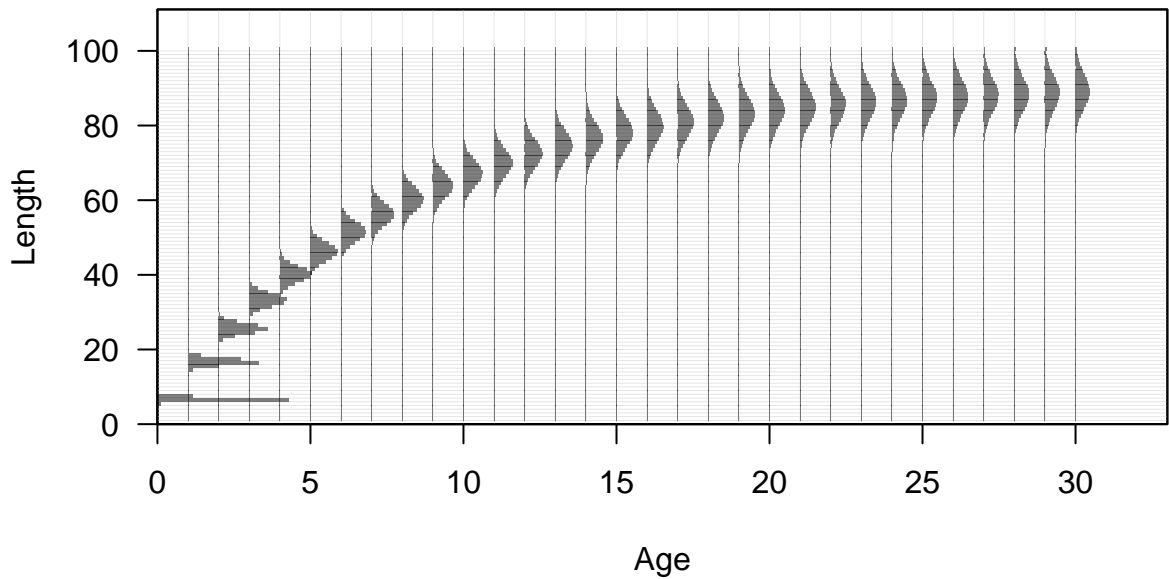


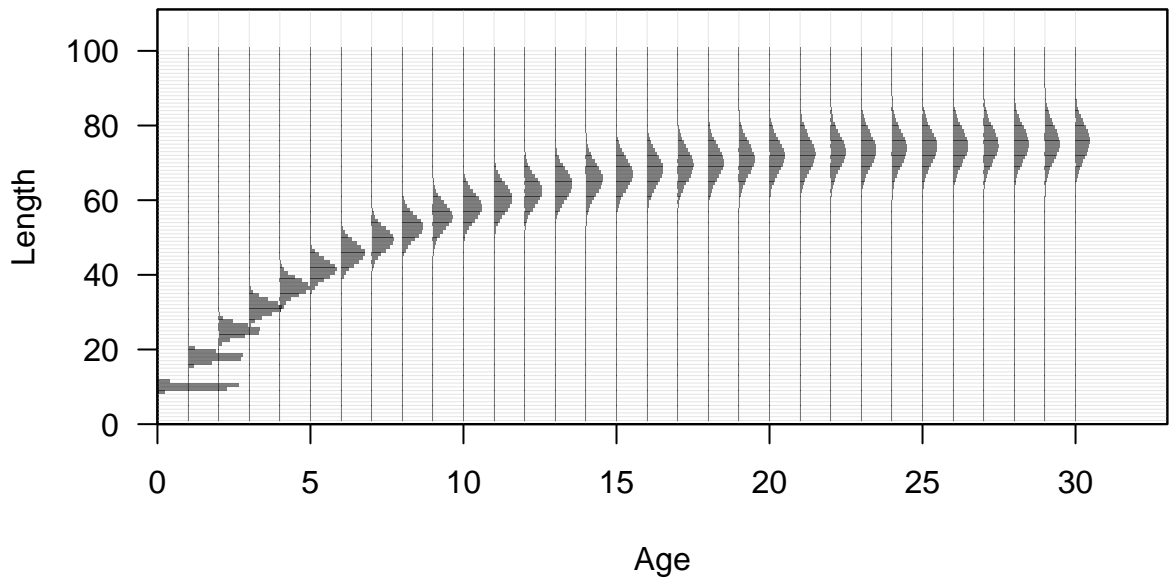






















Fecundity



Fecundity

20

15

10

5

0

0

20

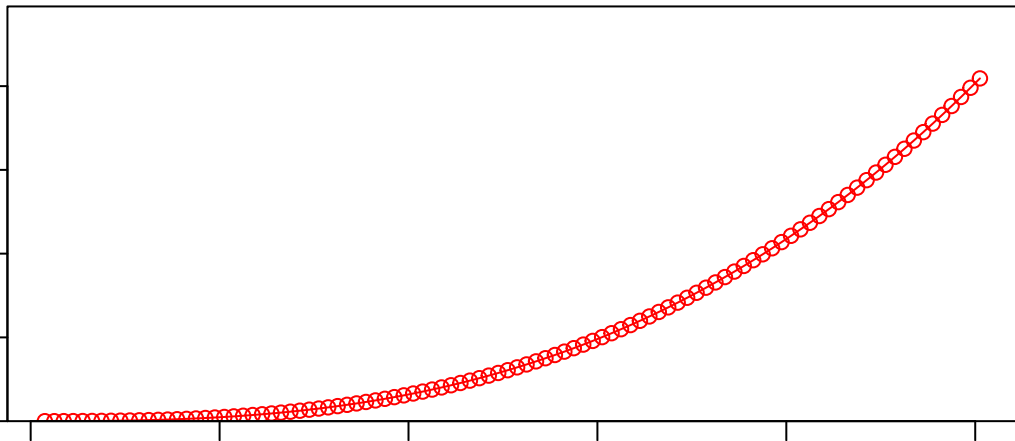
40

60

80

100

Female length (cm)



Spawning output

20
15
10
5
0

0

20

40

60

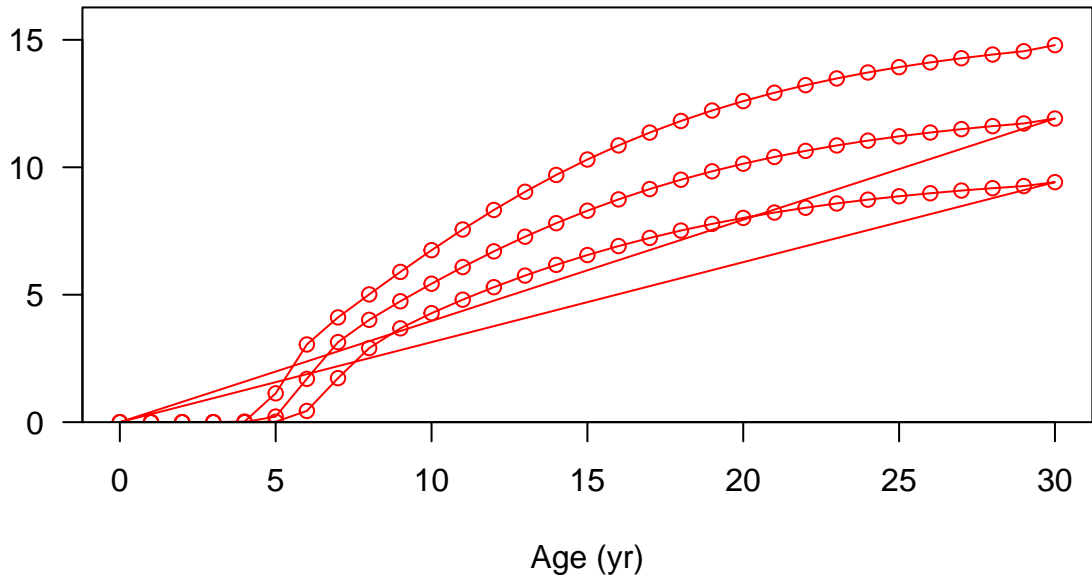
80

100

Length (cm)



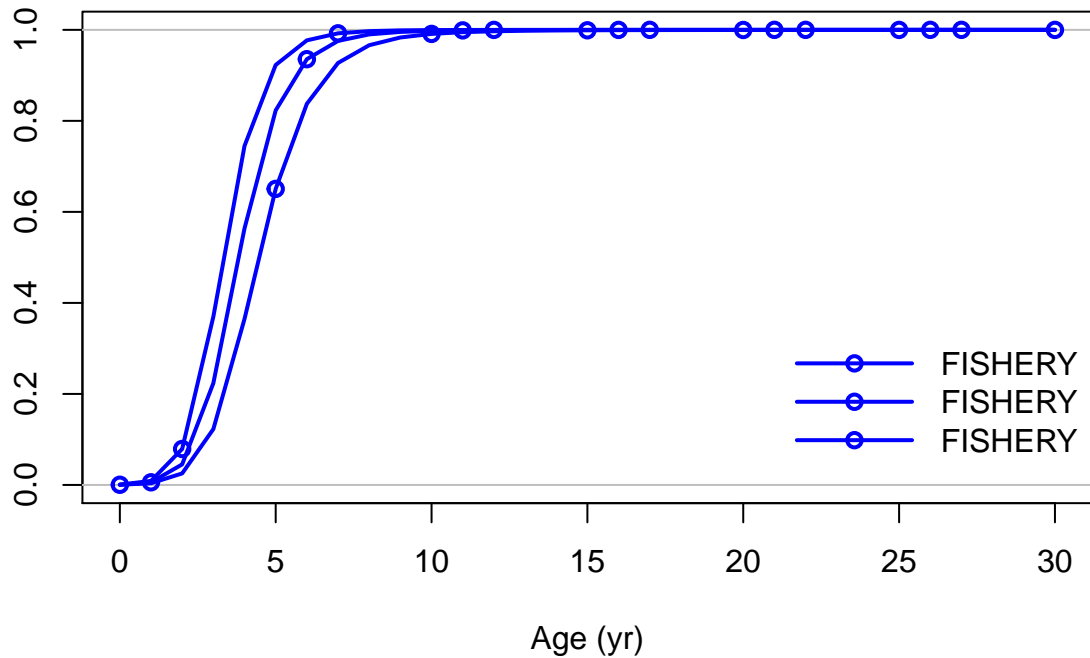
Spawning output



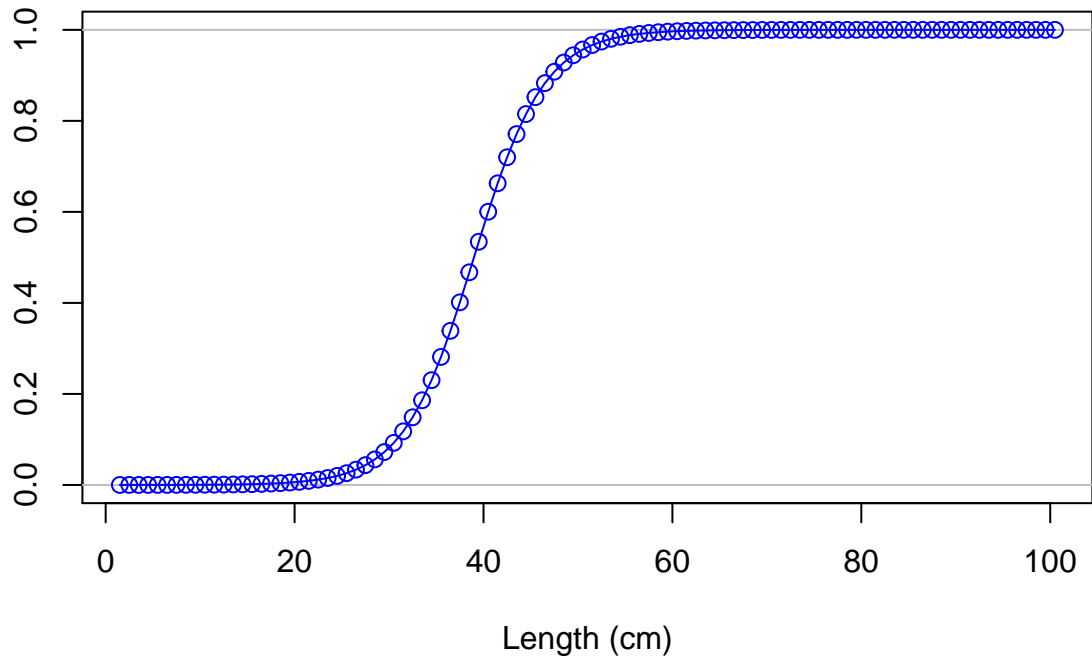
Selectivity

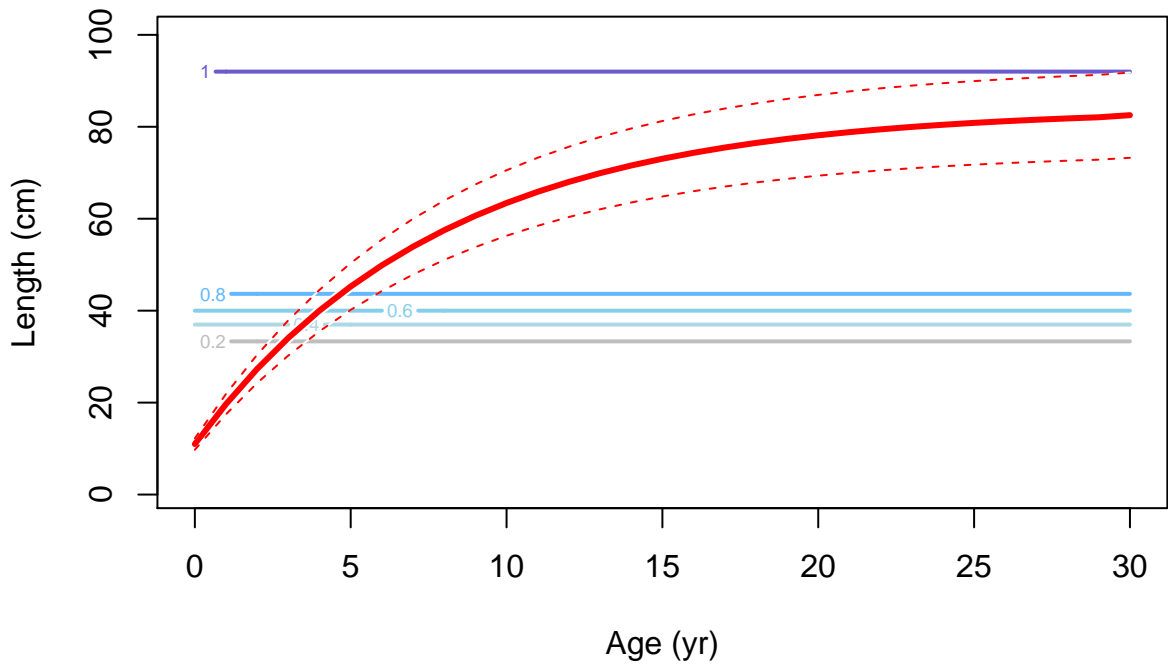


Selectivity



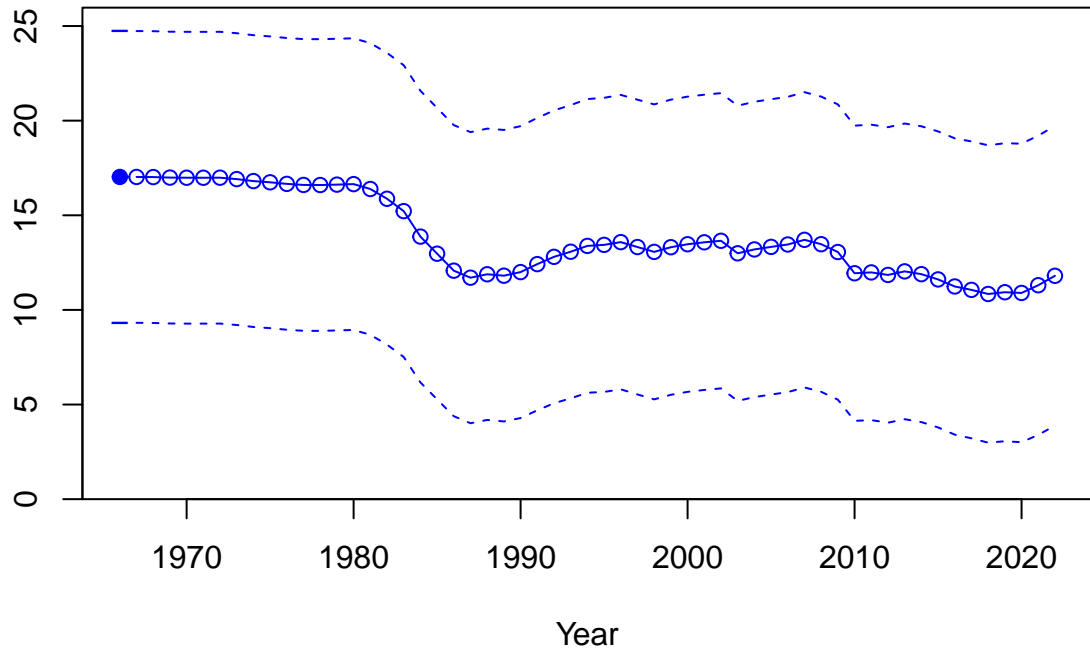
Selectivity







Spawning biomass (mt)



Relative spawning biomass: B/B_{MSY}



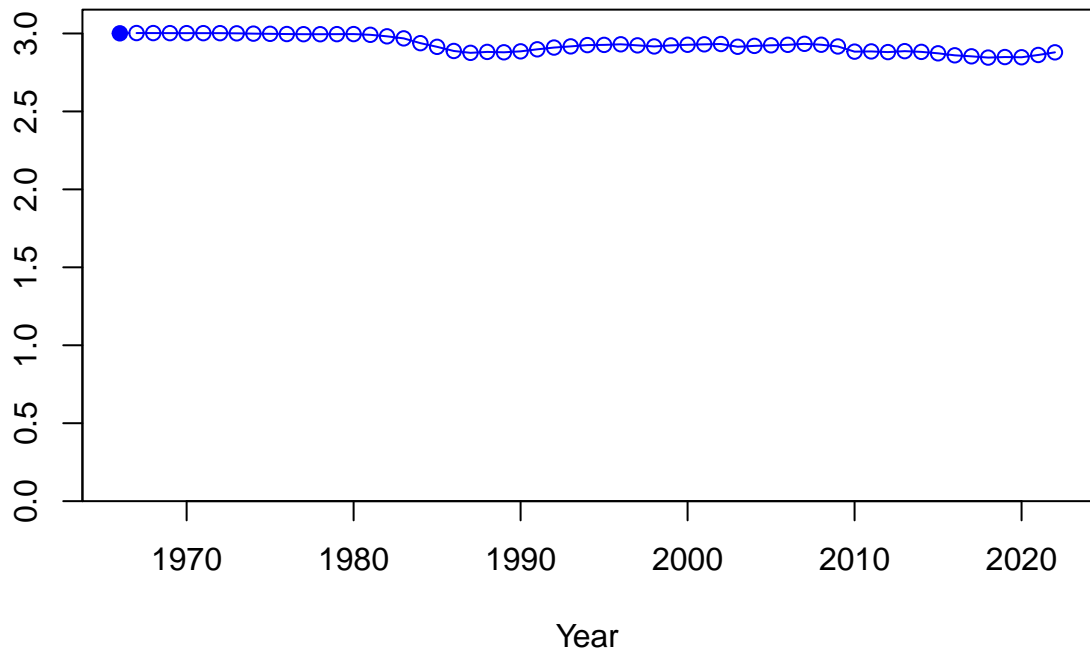
Relative spawning biomass: B/B_{MSY}

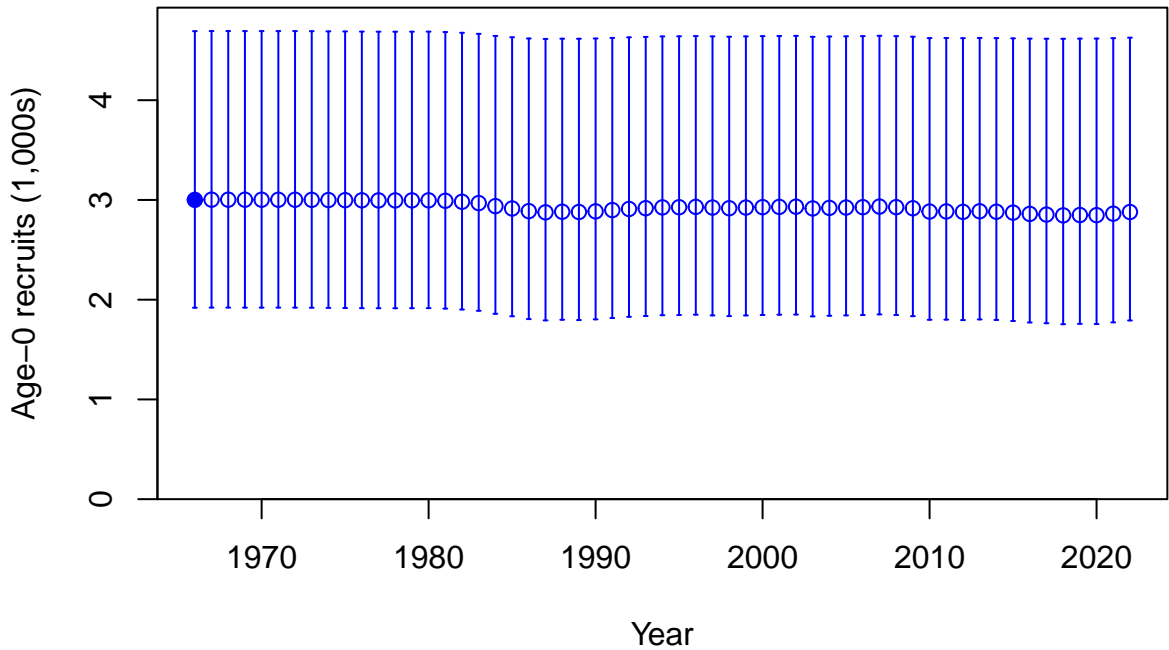






Age-0 recruits (1,000s)

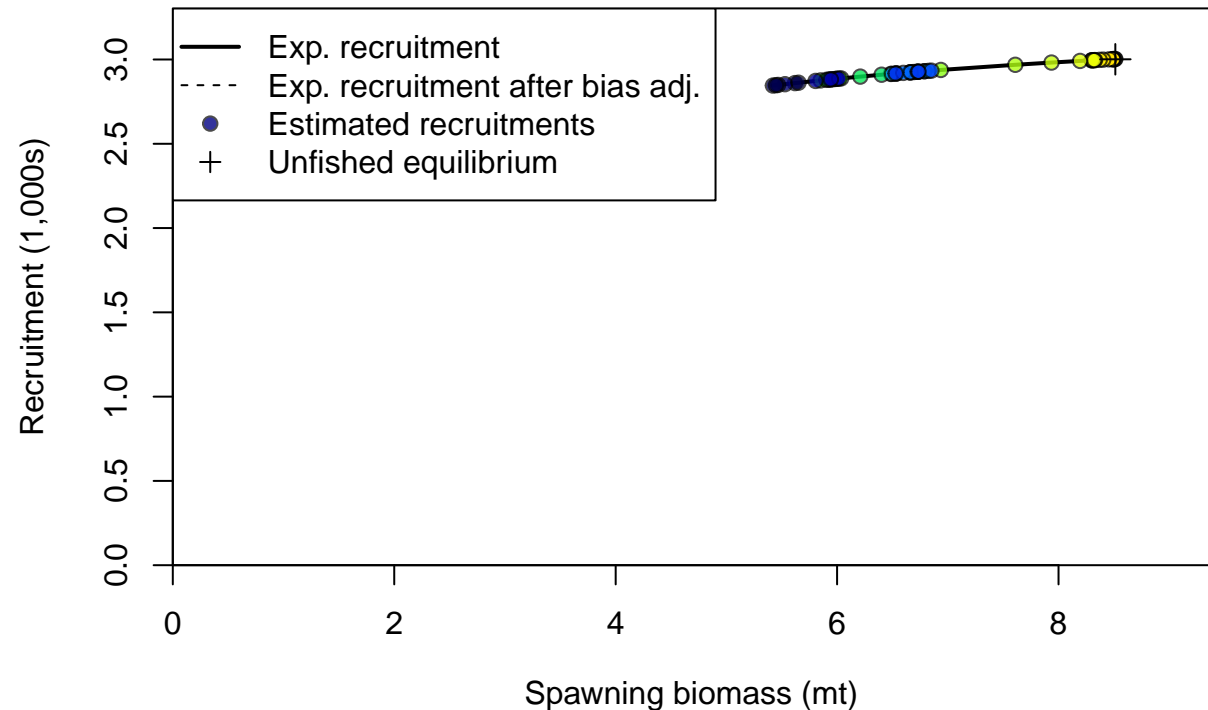




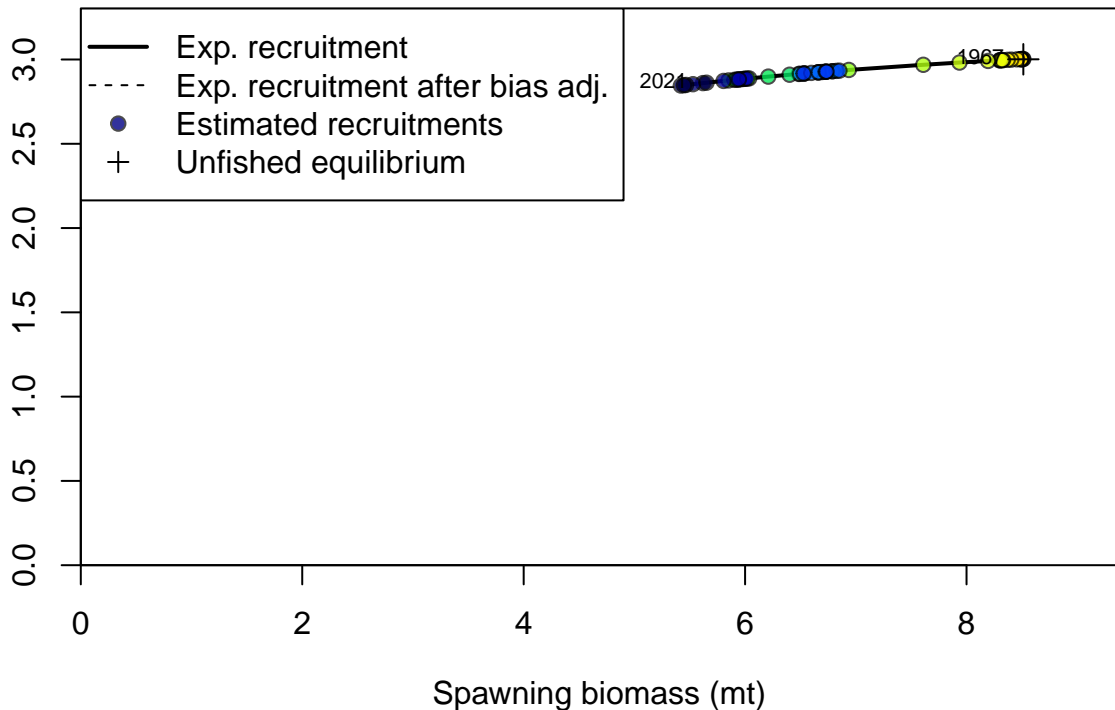
Summary Fishing Mortality

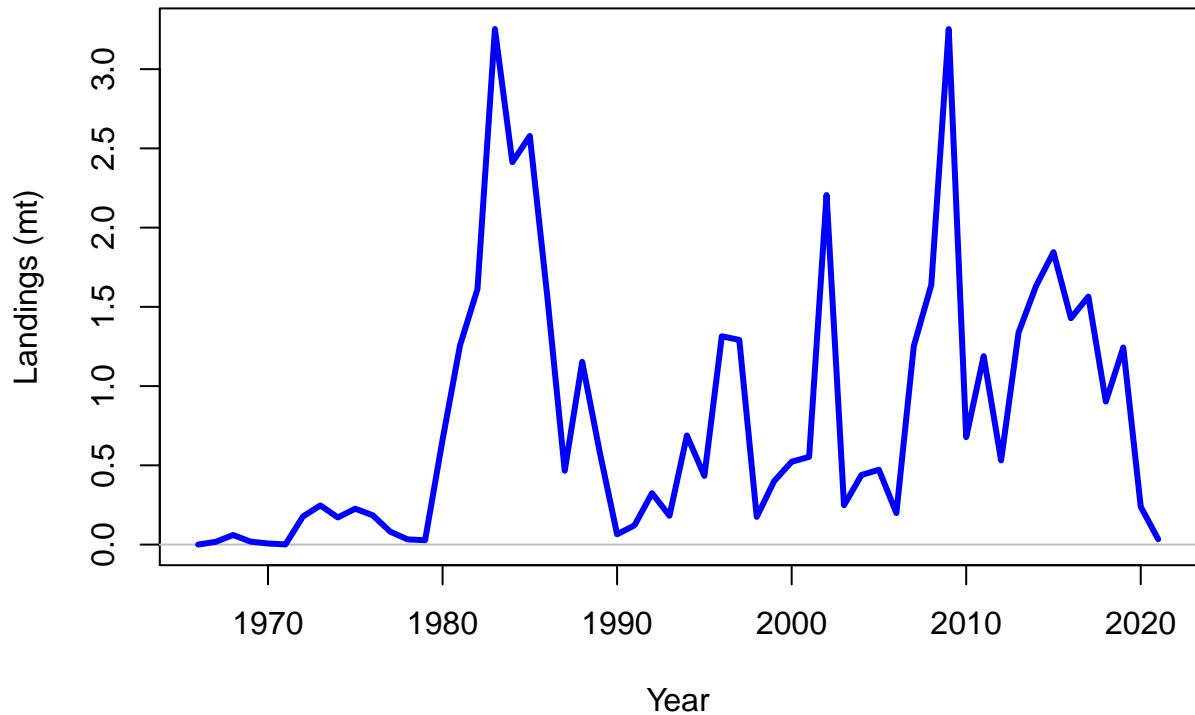


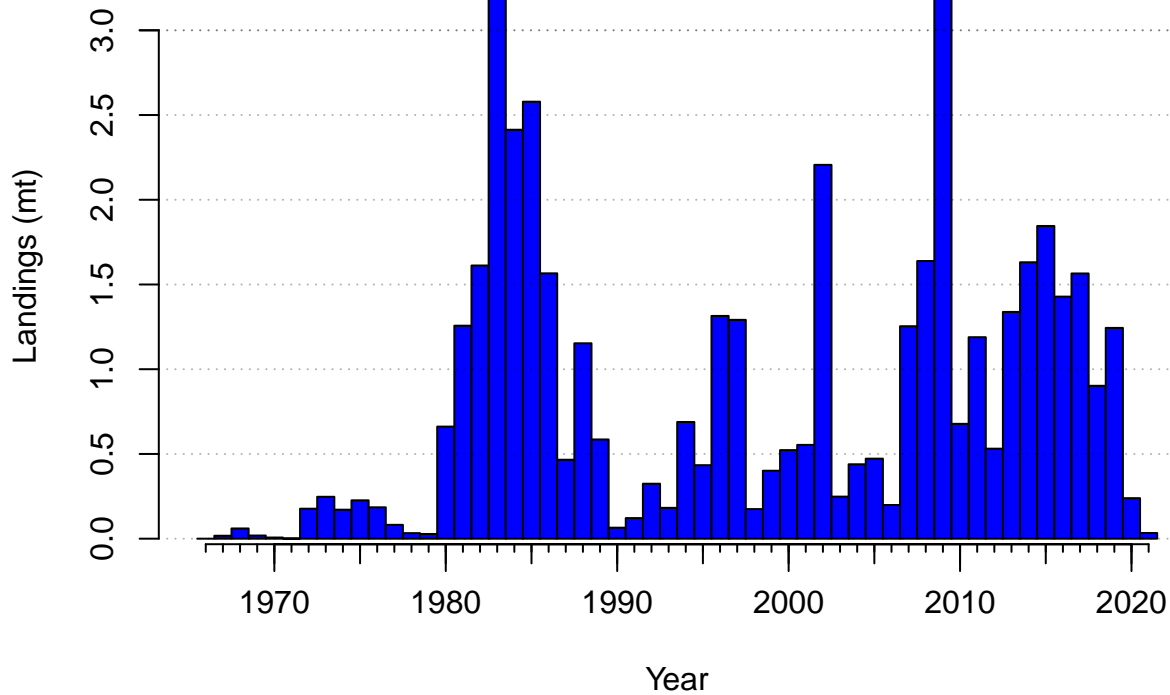


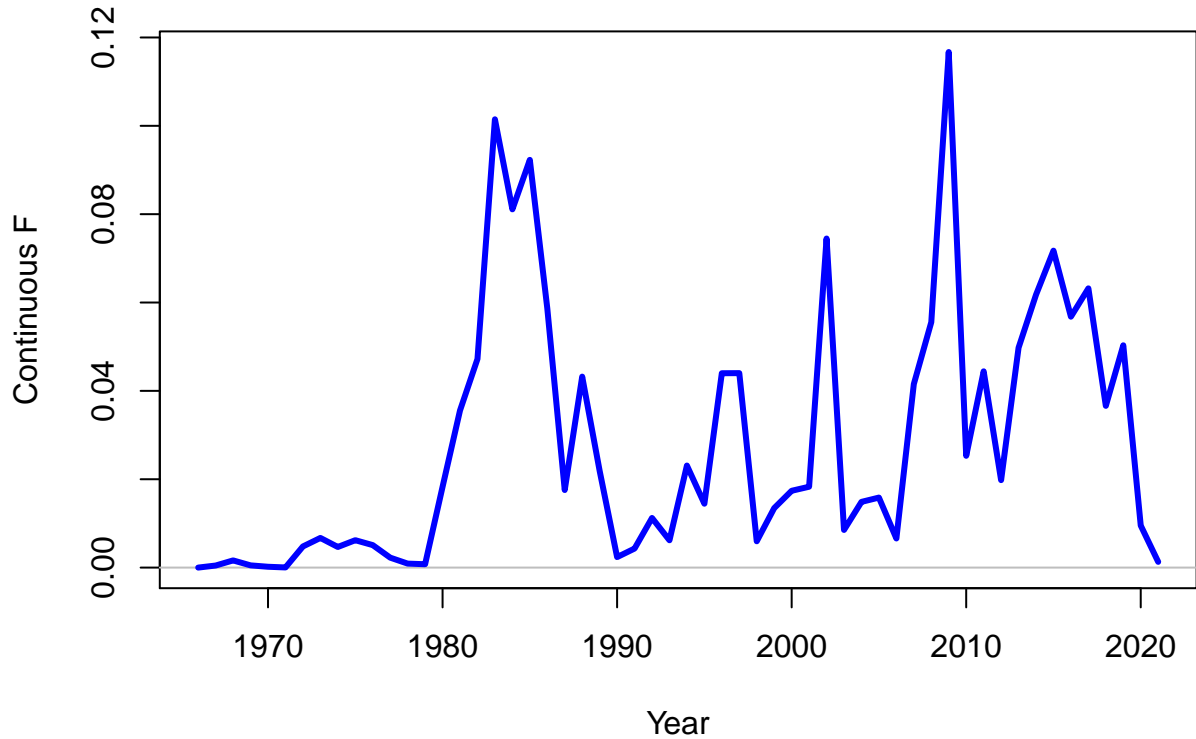


Recruitment (1,000s)









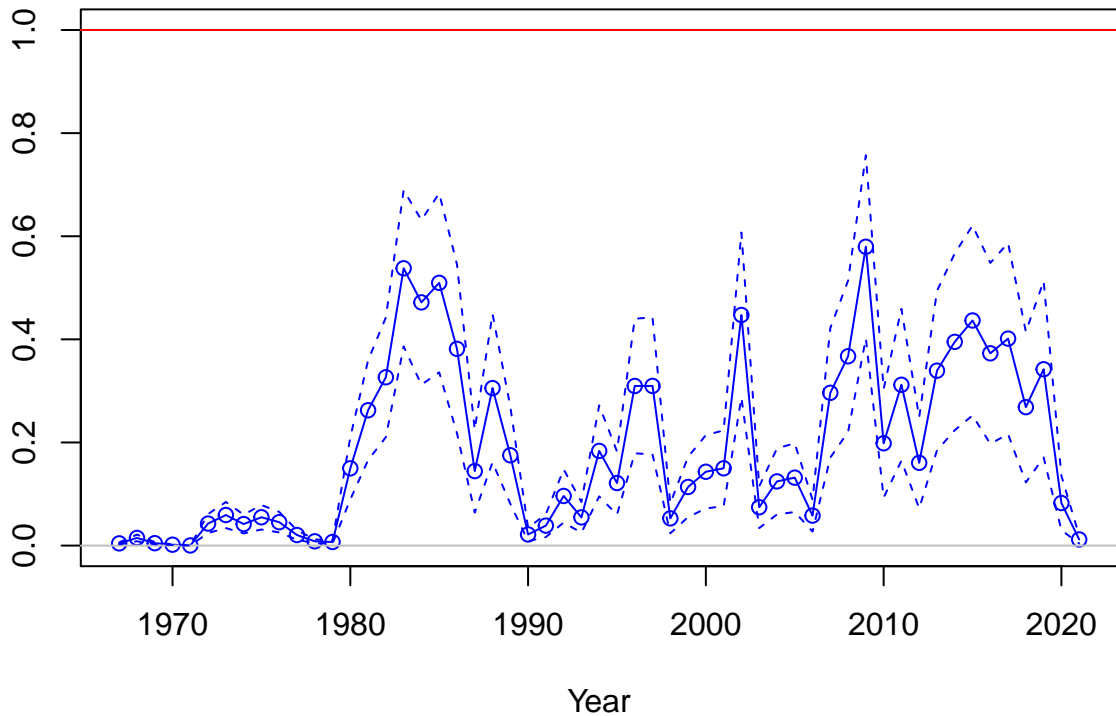
SPR



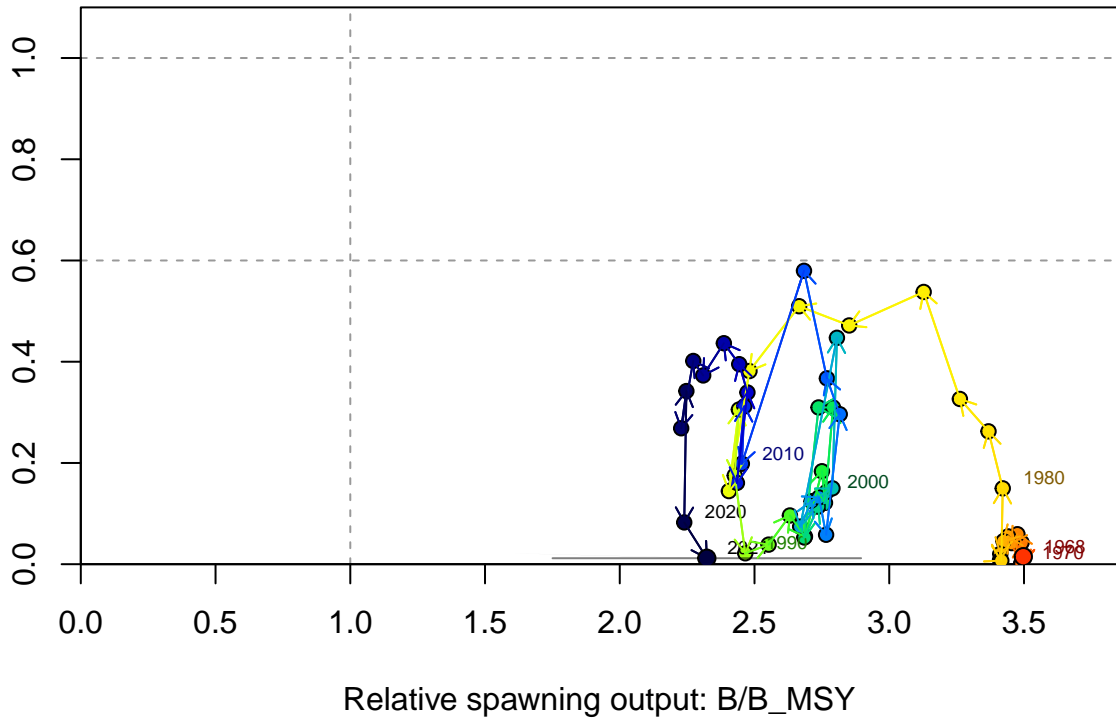
1-SPR



Fishing intensity: 1-SPR



Fishing intensity: 1-SPR



Index

20
15
10
5
0

2016

2017

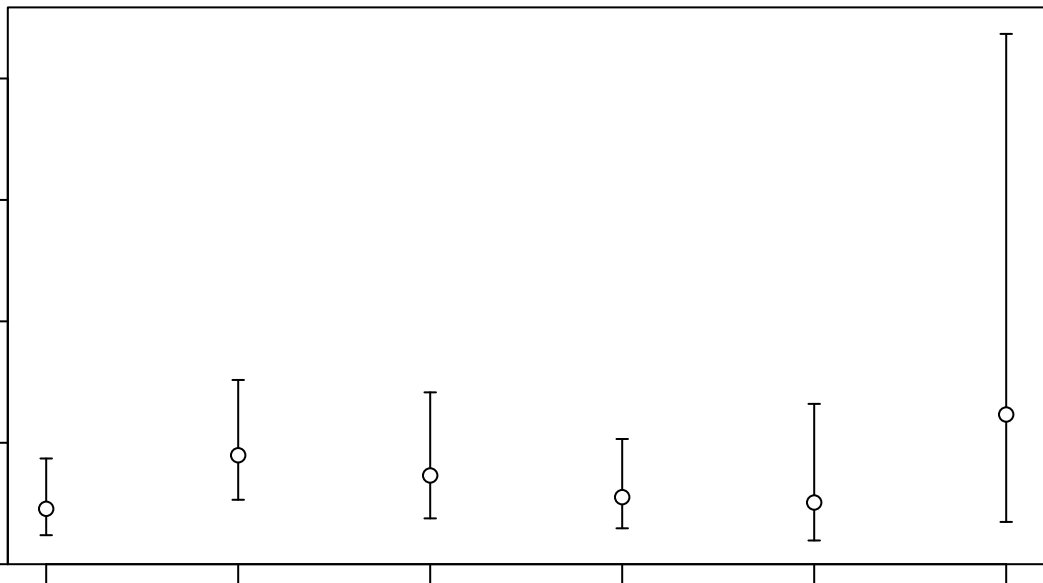
2018

2019

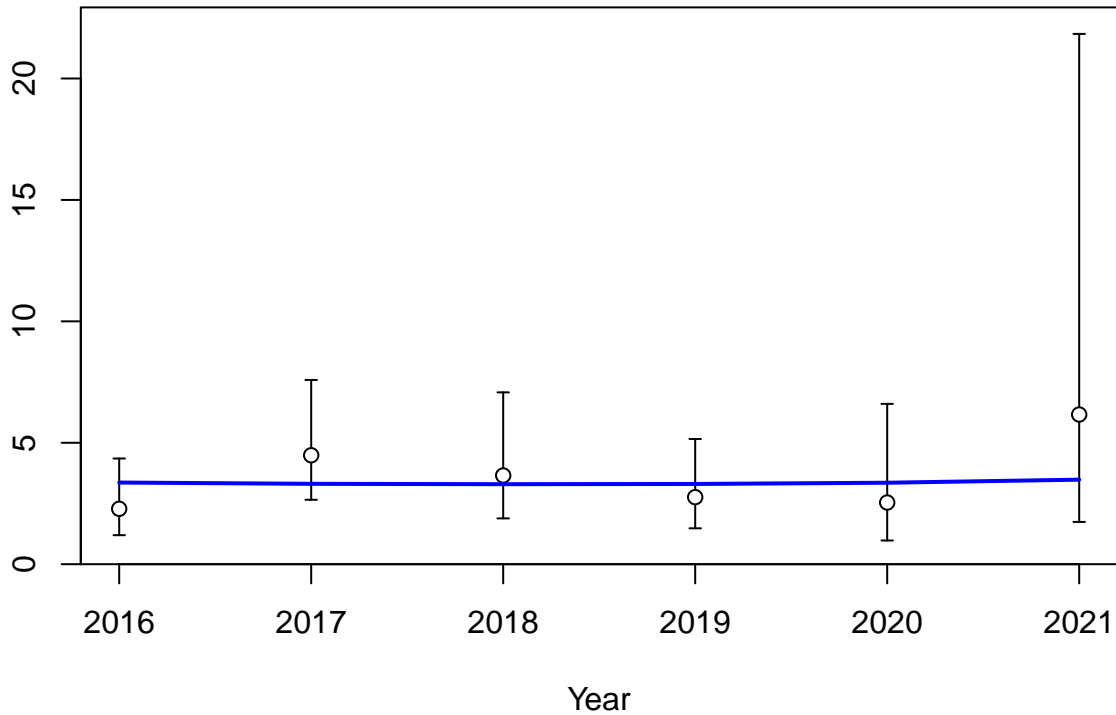
2020

2021

Year



Index





Log index

3.0
2.5
2.0
1.5
1.0
0.5
0.0

2016

2017

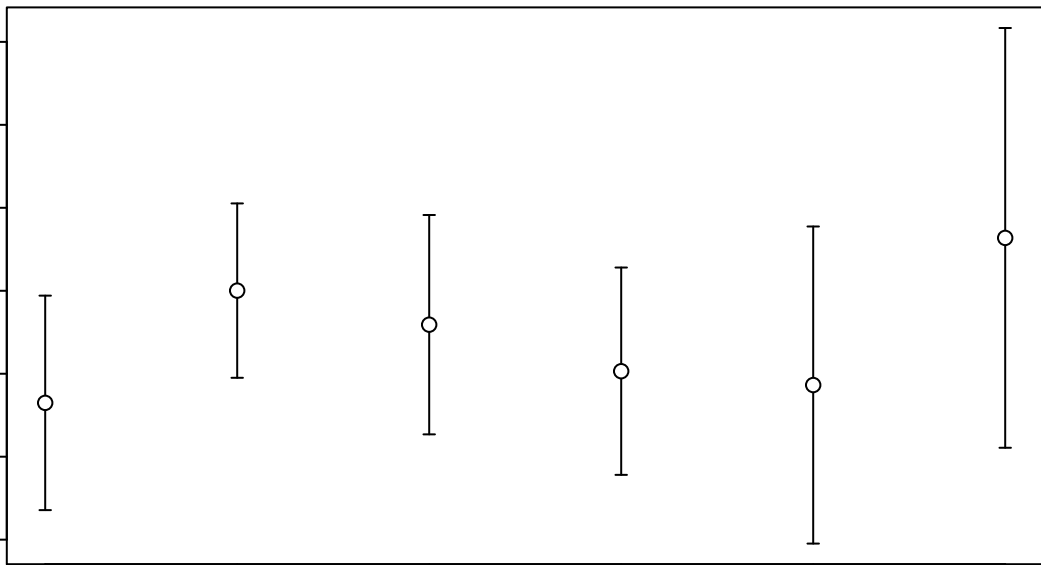
2018

2019

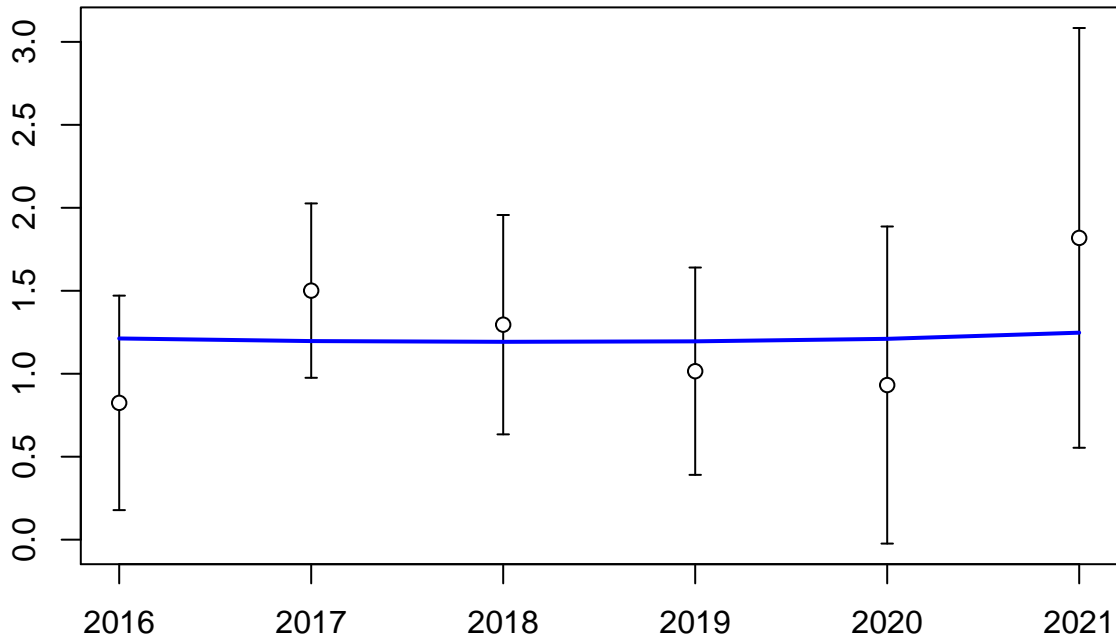
2020

2021

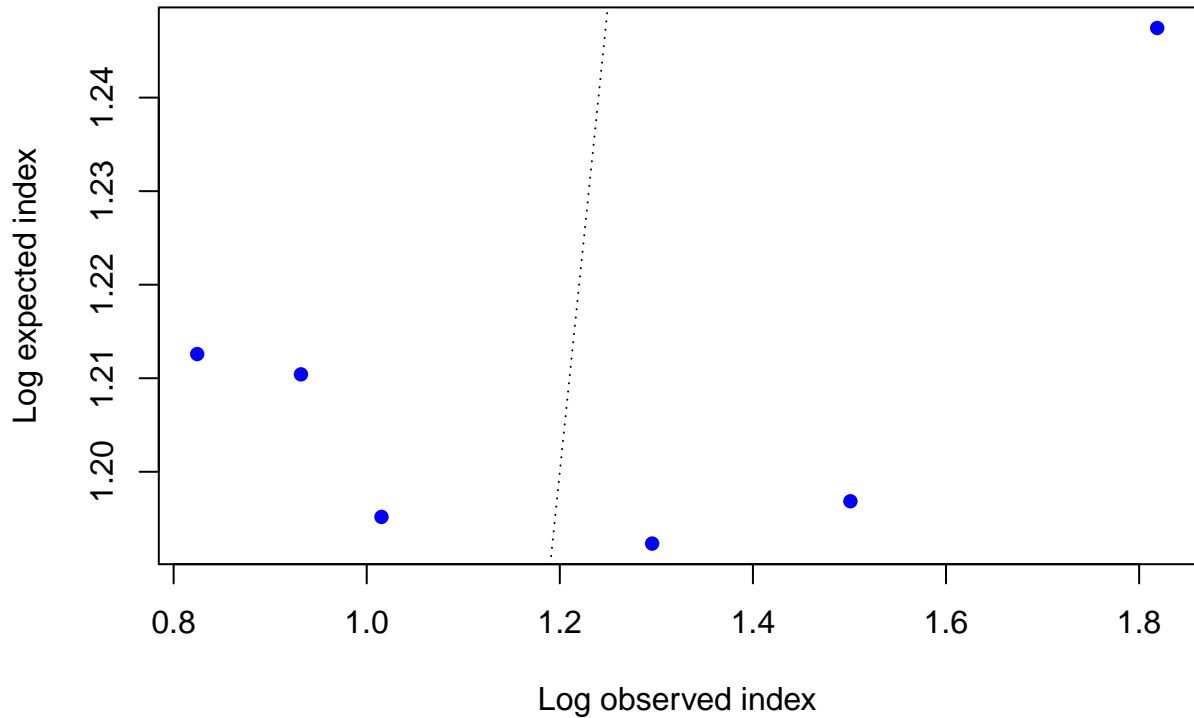
Year



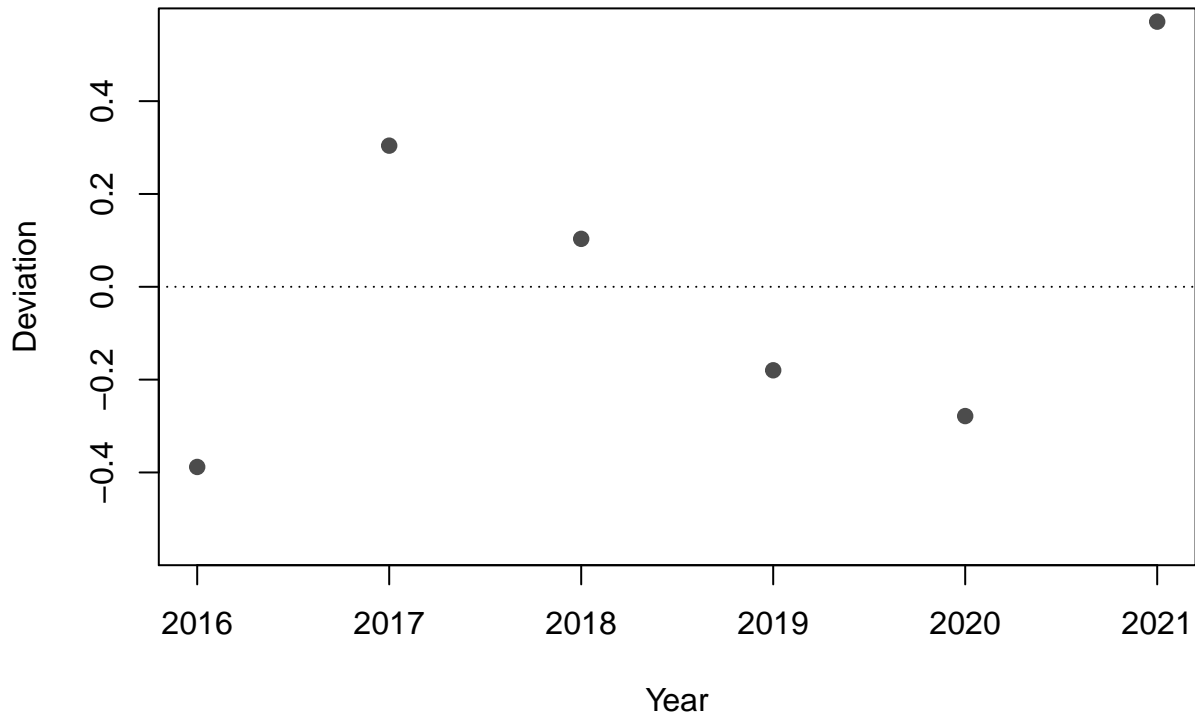
Log index



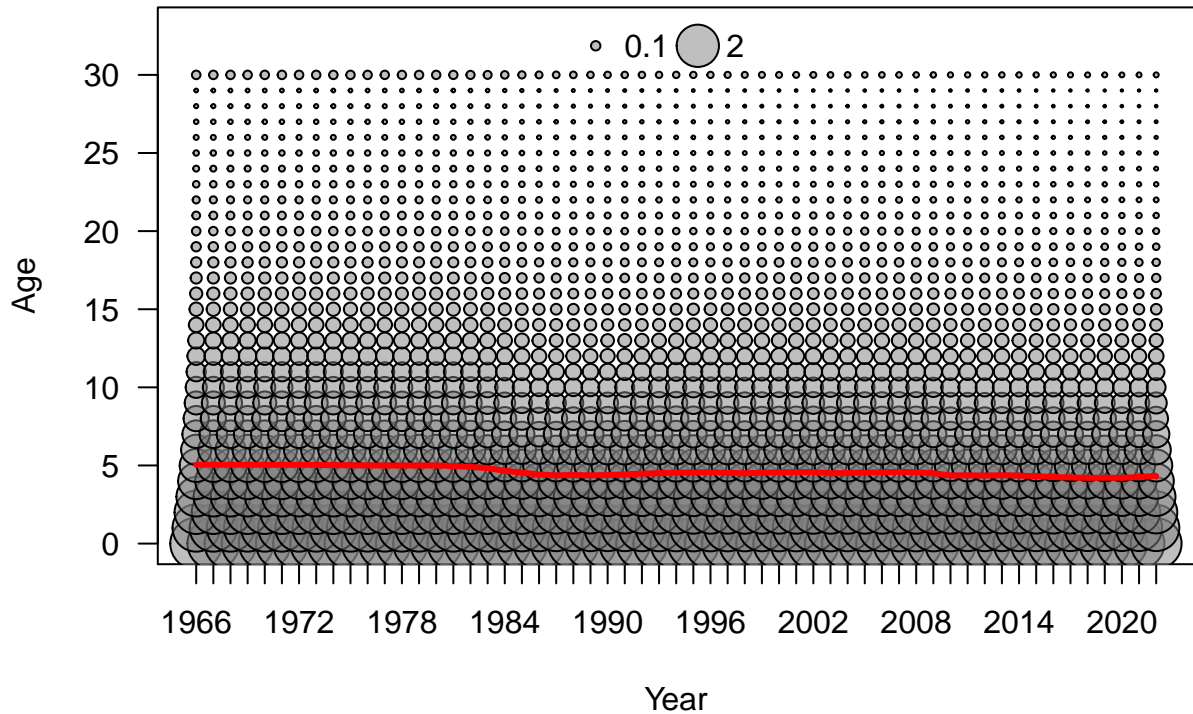
Year

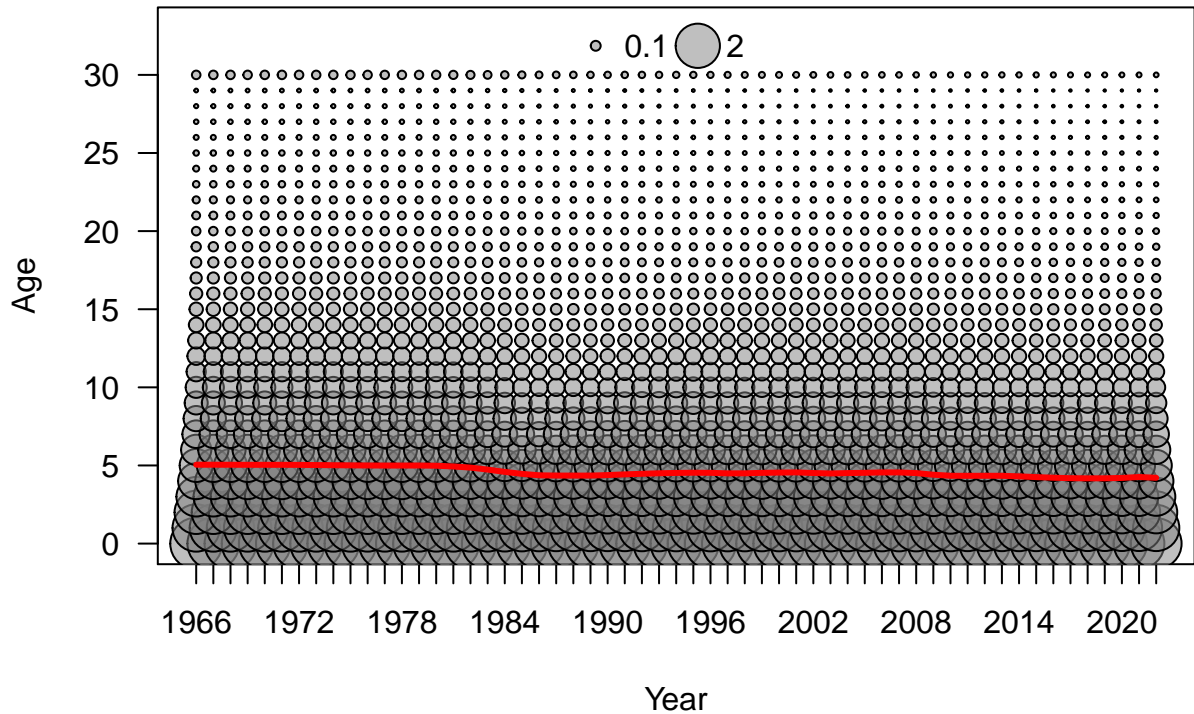




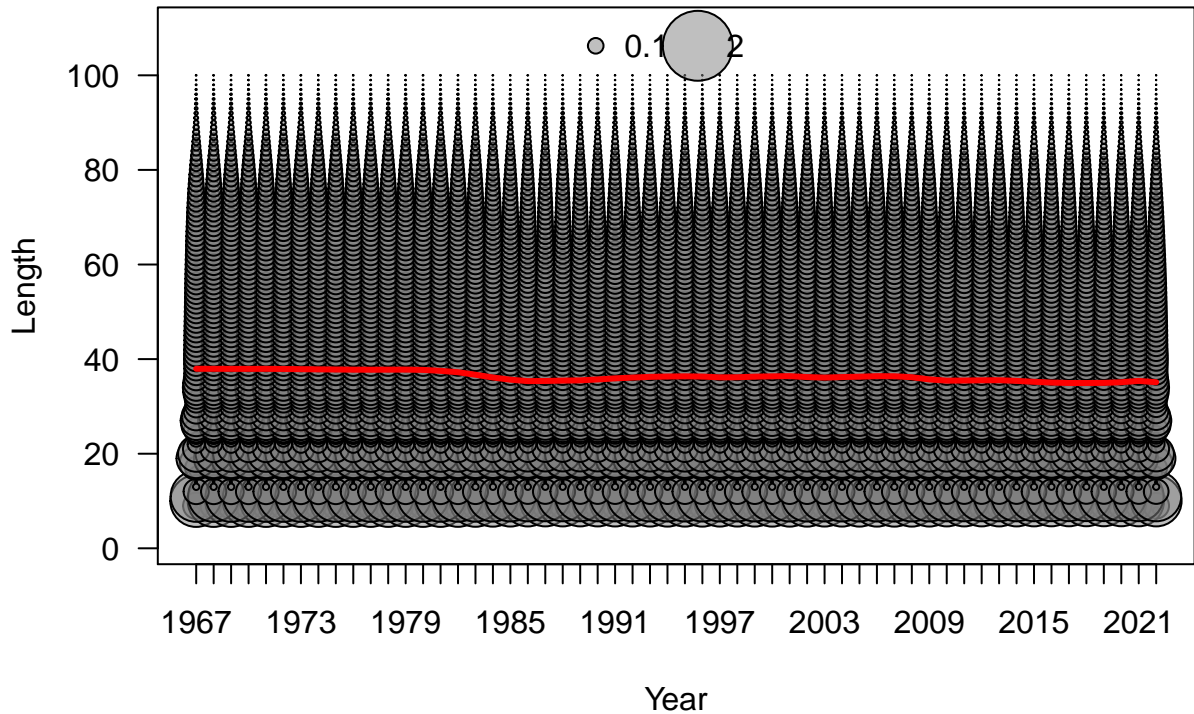


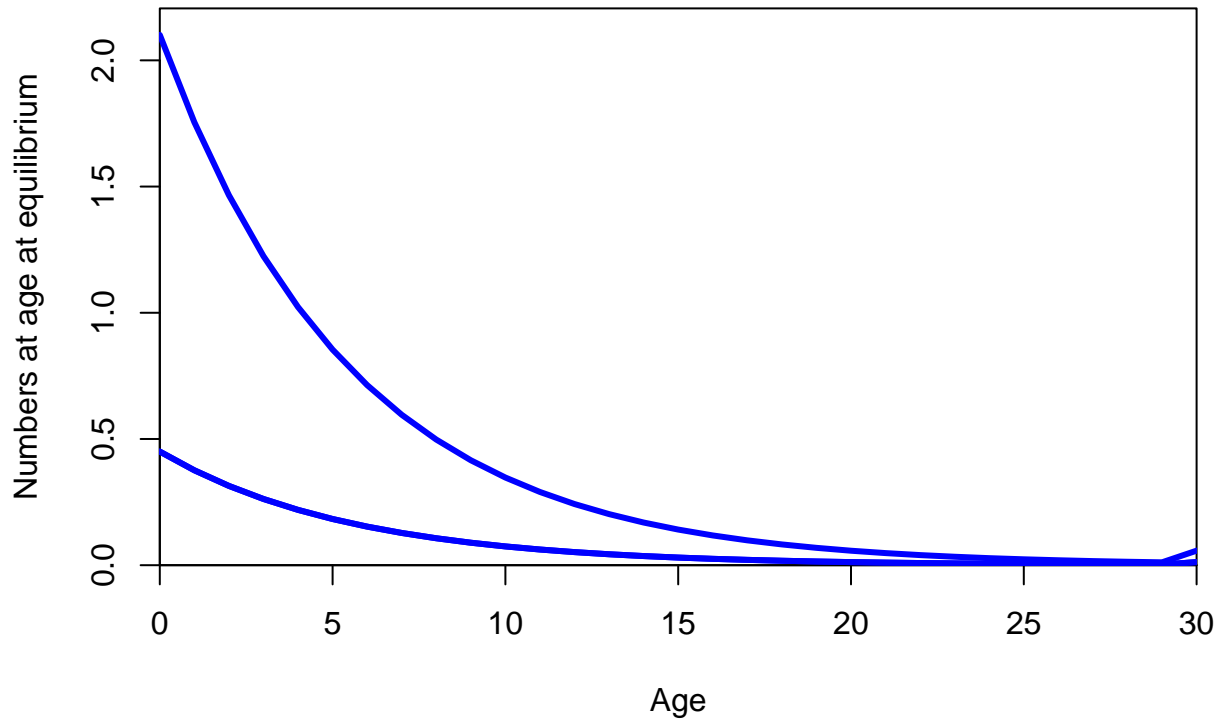








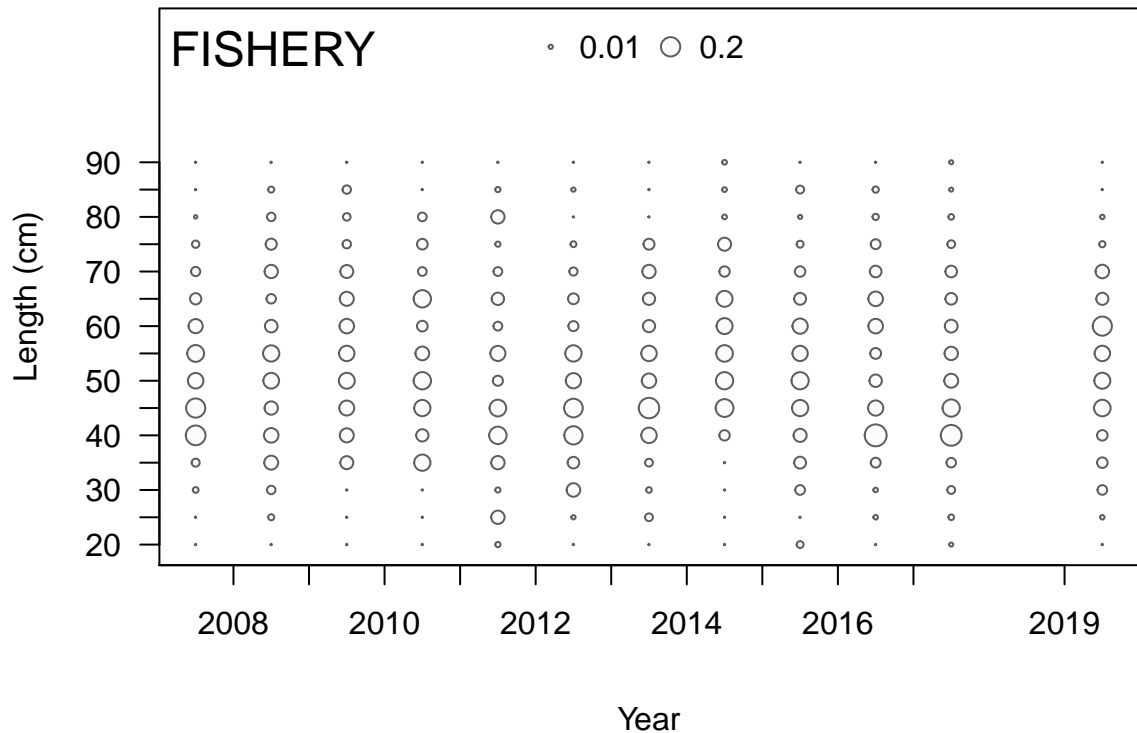




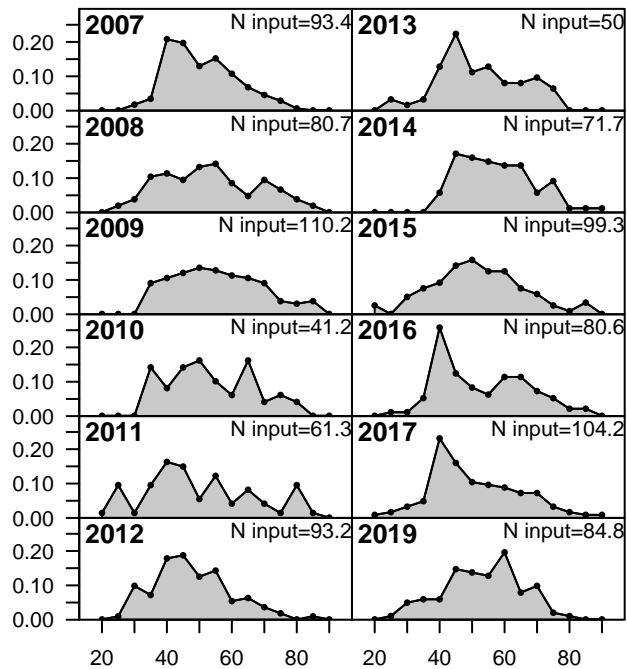
FISHERY

Sum of N input=970.8





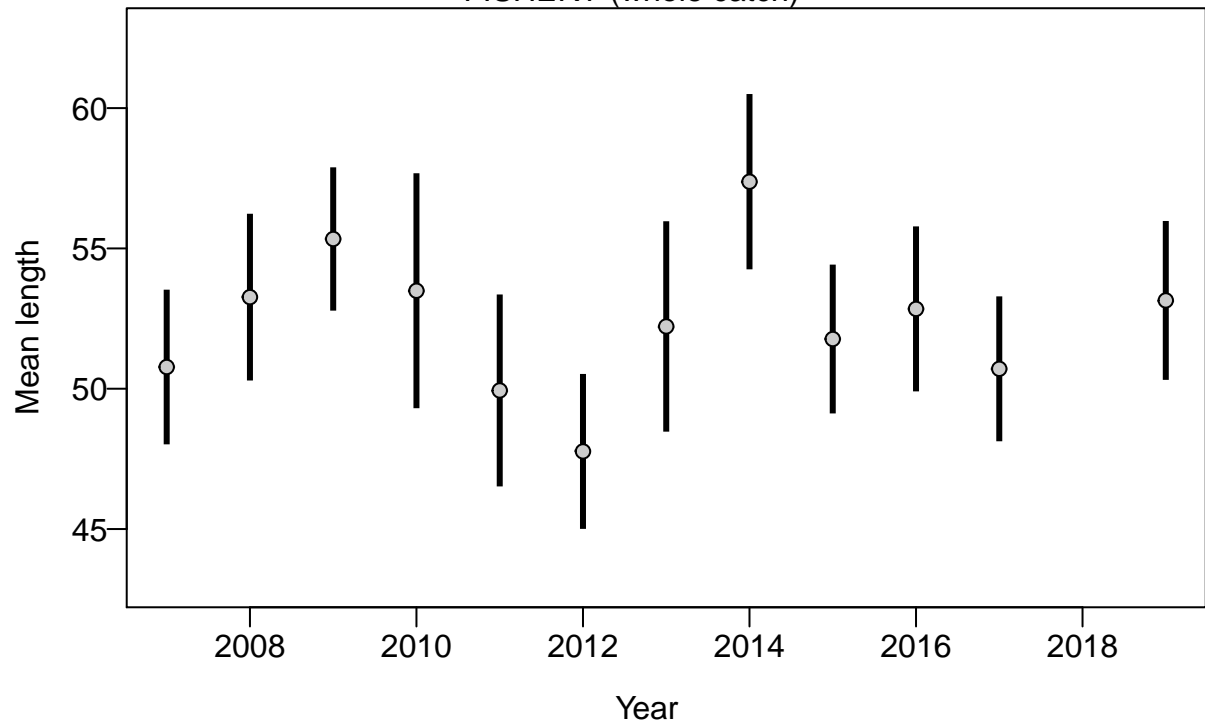
Proportion



Length (cm)



FISHERY (whole catch)



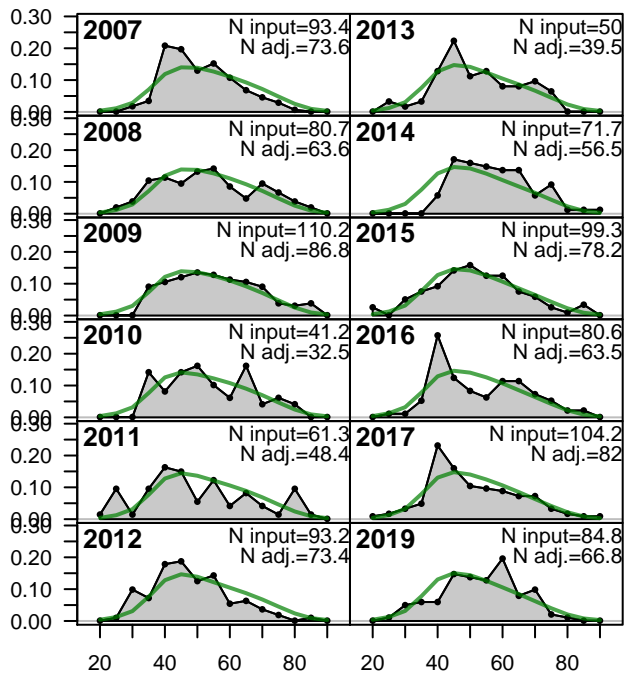
FISHERY

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

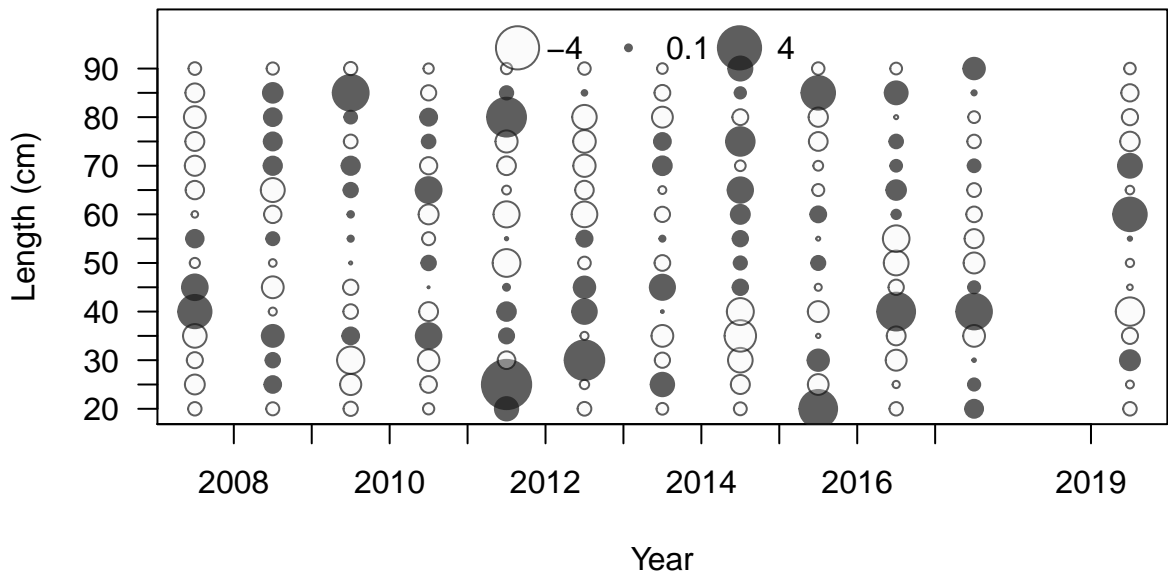




Proportion



Length (cm)



FISHERY (whole catch)

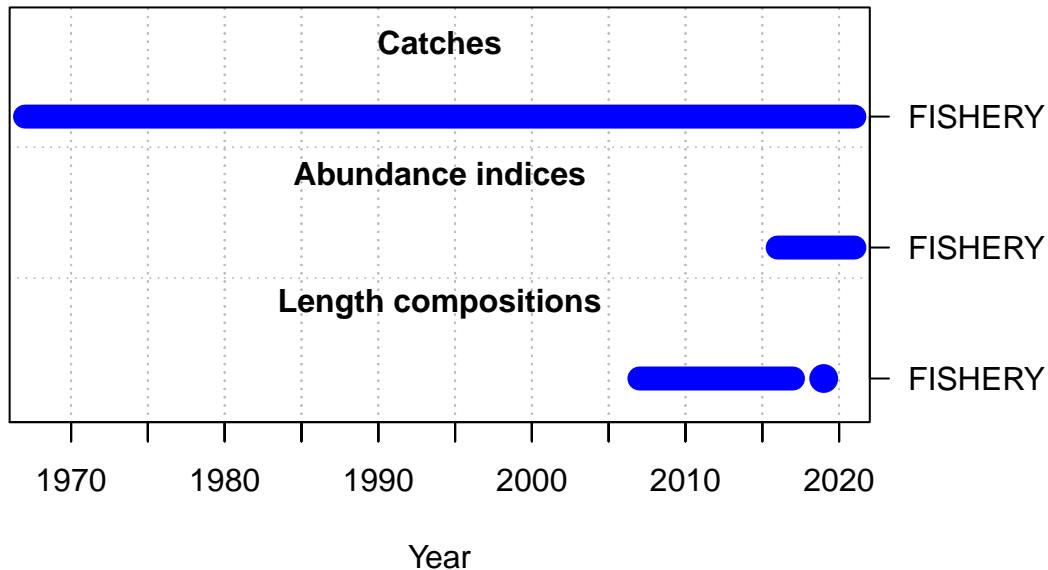


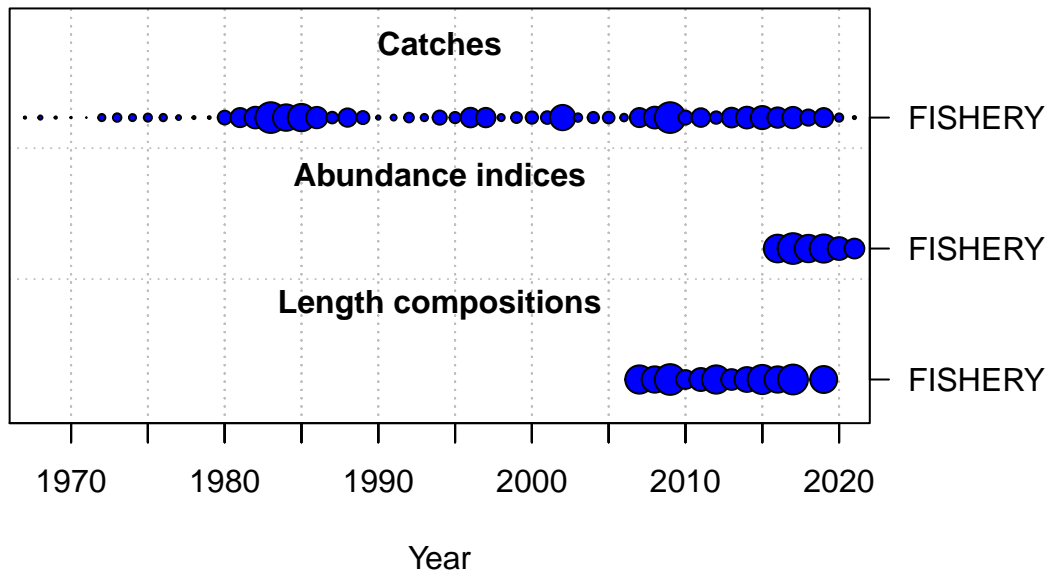




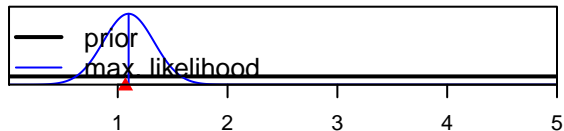




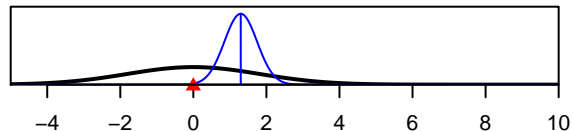




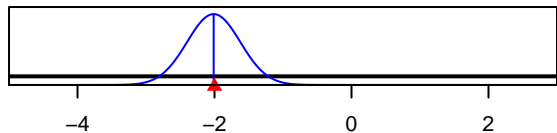
SR_LN(R0)



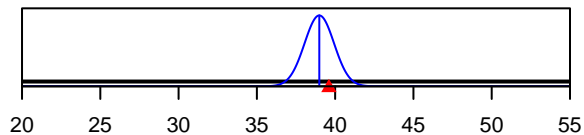
ln(DM_theta)_1



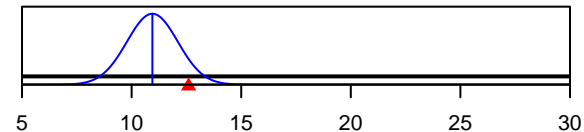
LnQ_base_FISHERY(1)



Size_inflection_FISHERY(1)



Size_95%width_FISHERY(1)



Parameter value