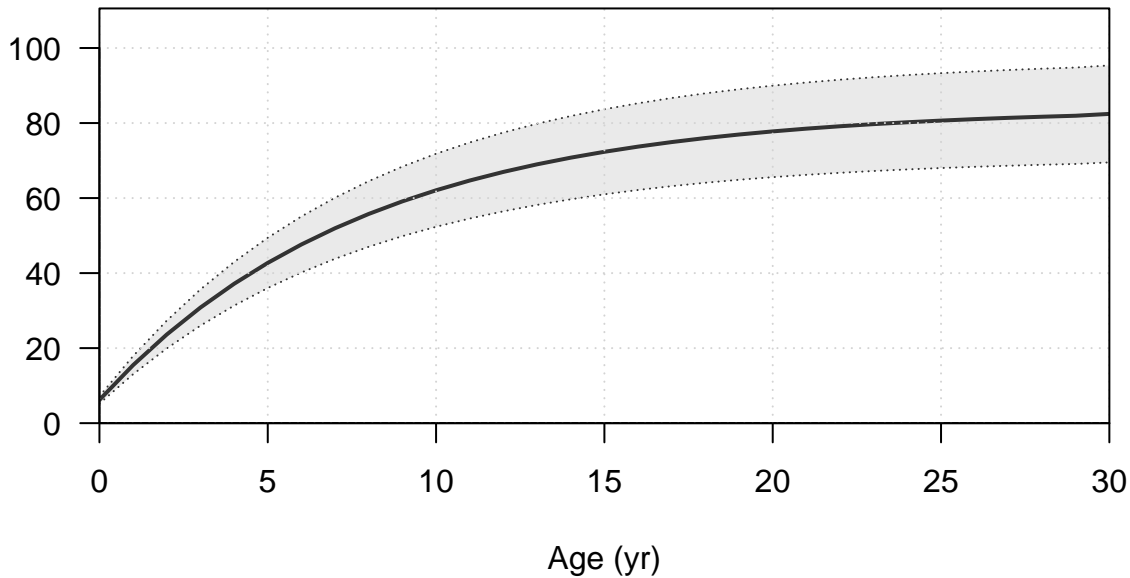
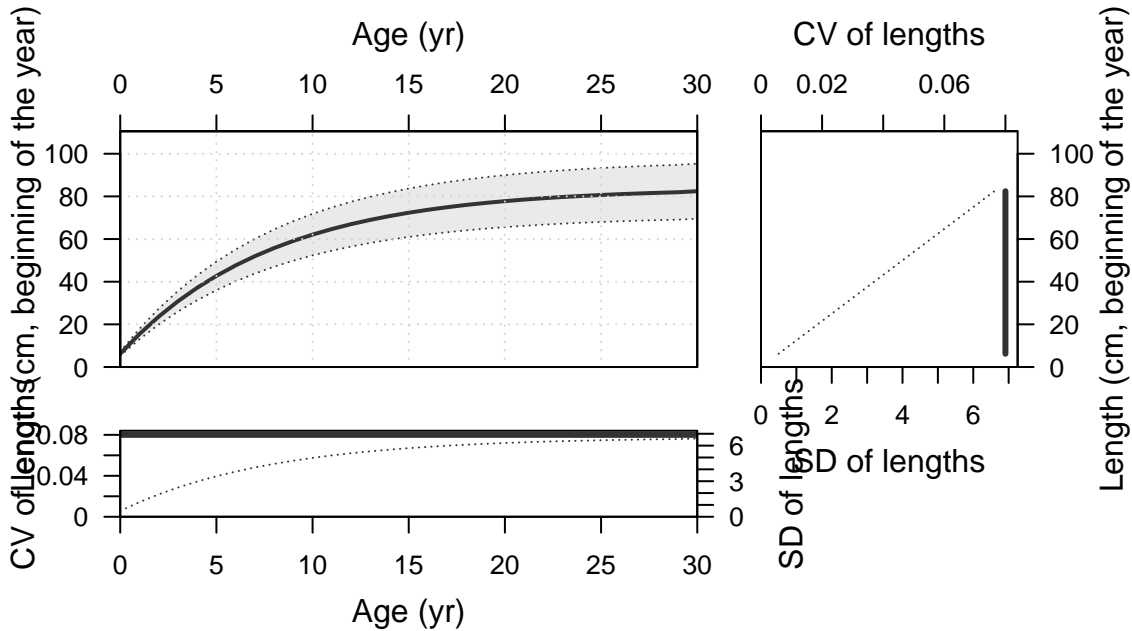
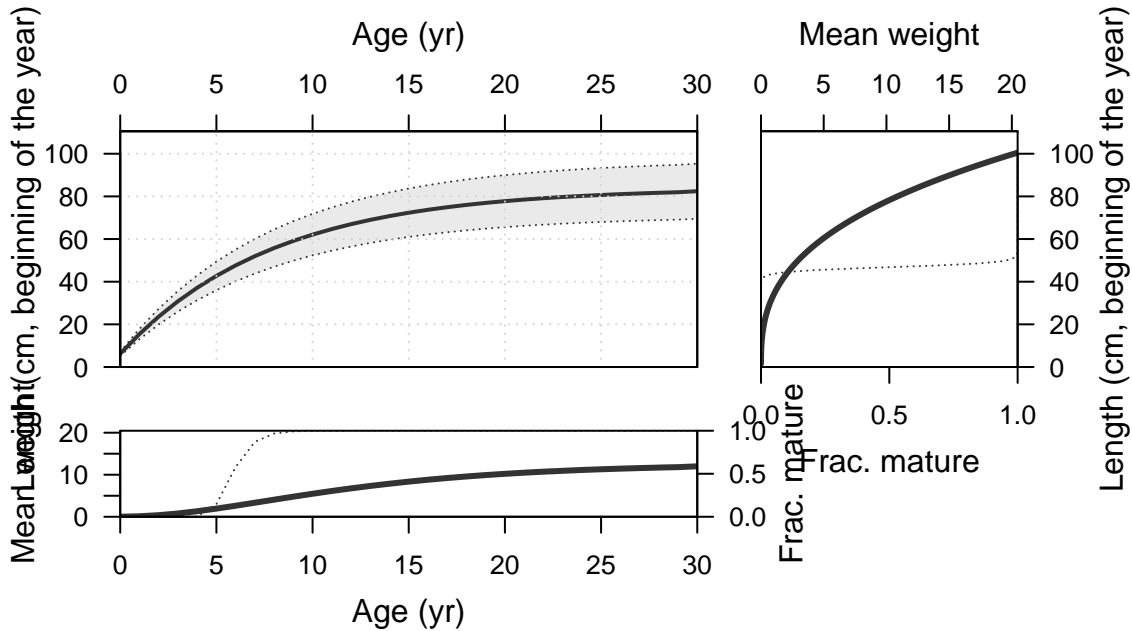


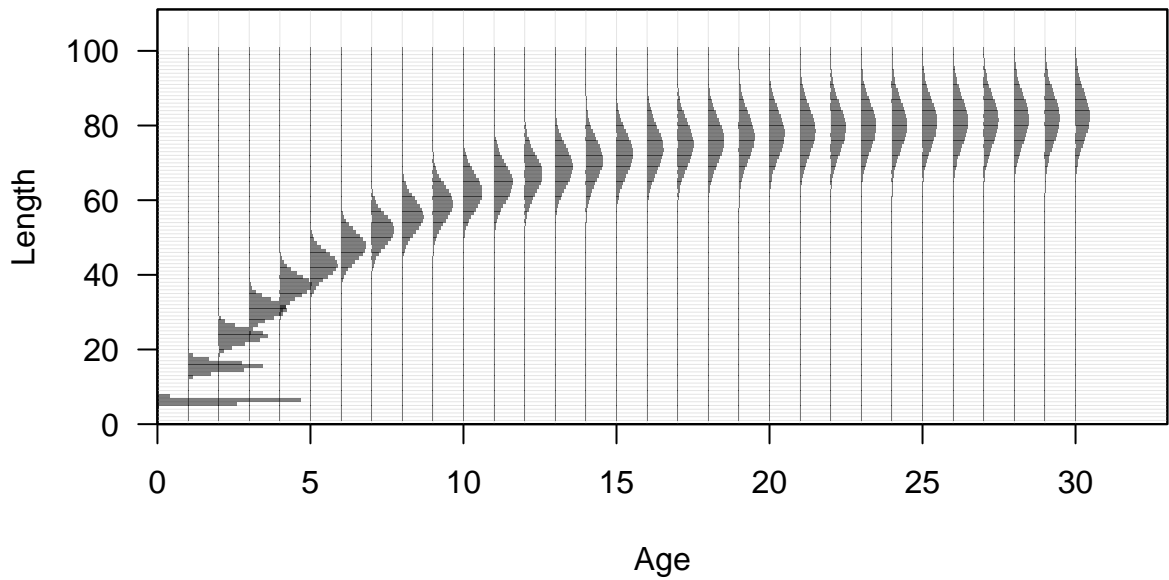
Plots created using the 'r4ss' package in R
Stock Synthesis version: 3.30.19.0
StartTime: Mon Aug 08 09:46:44 2022
Data_File: data.ss
Control_File: control.ss

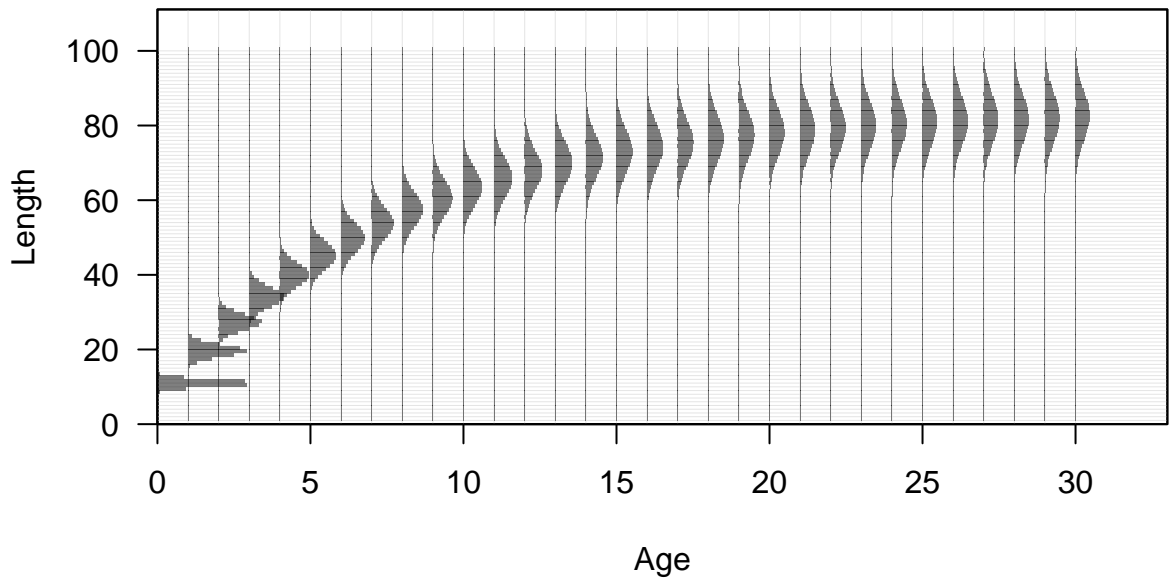
Length (cm, beginning of the year)

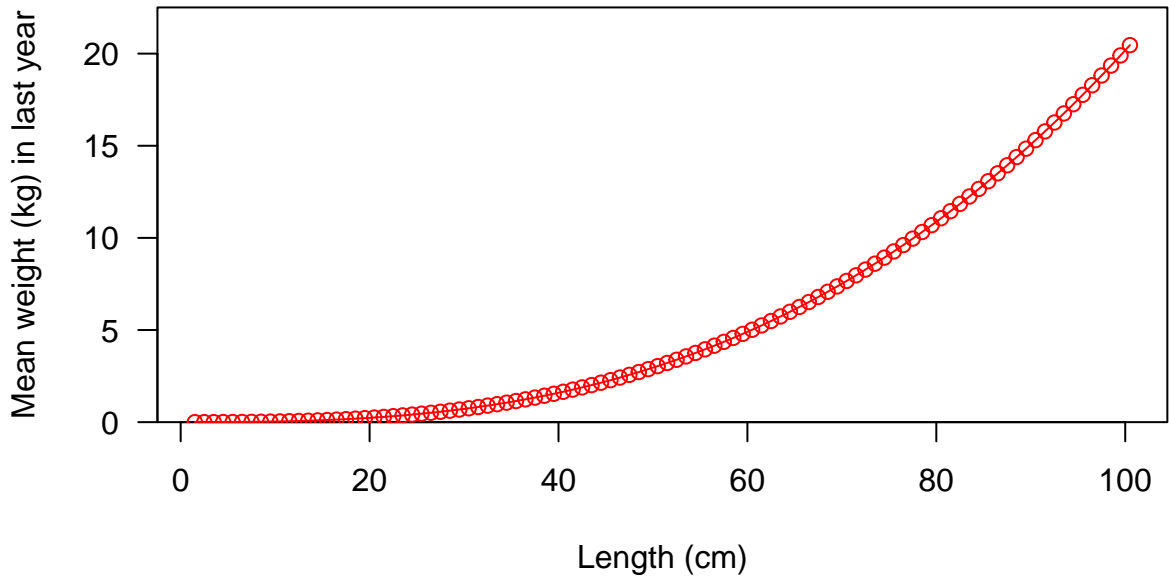


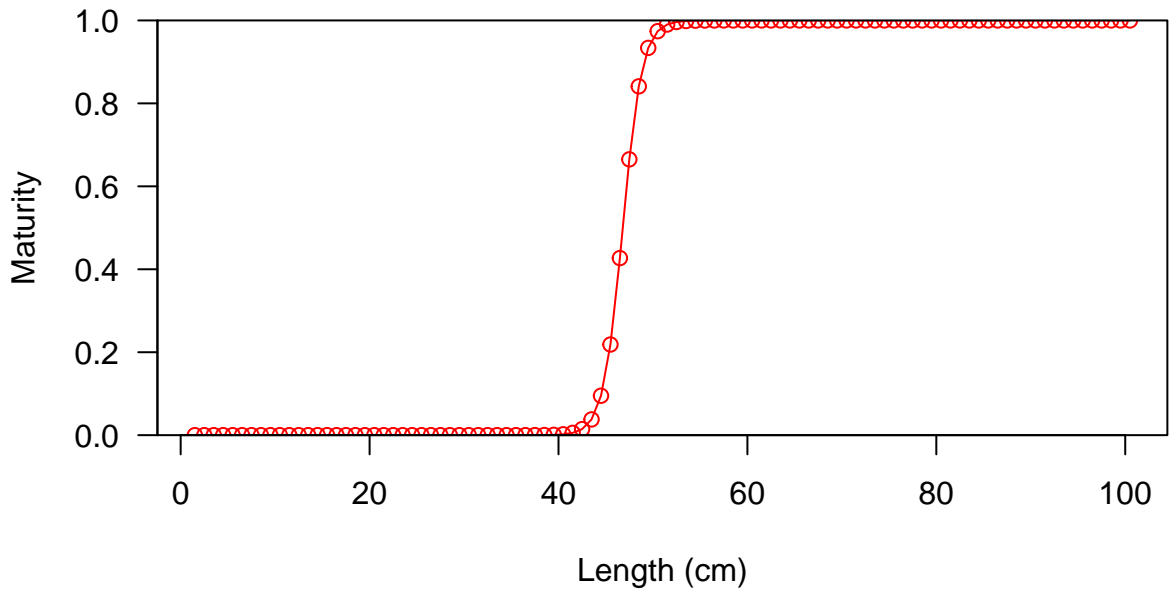


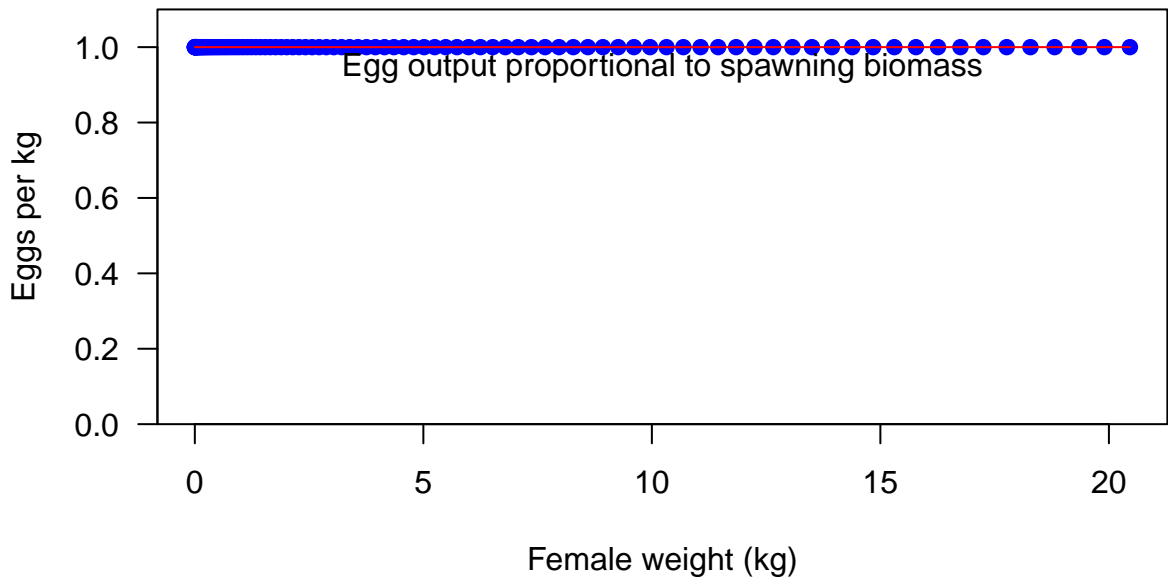




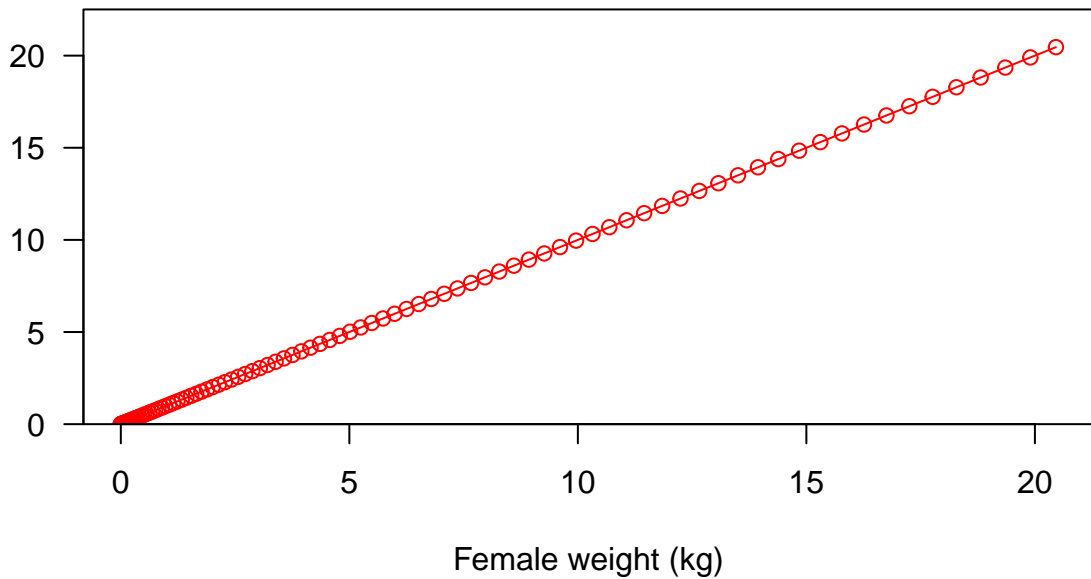








Fecundity



Fecundity

20

15

10

5

0

0

20

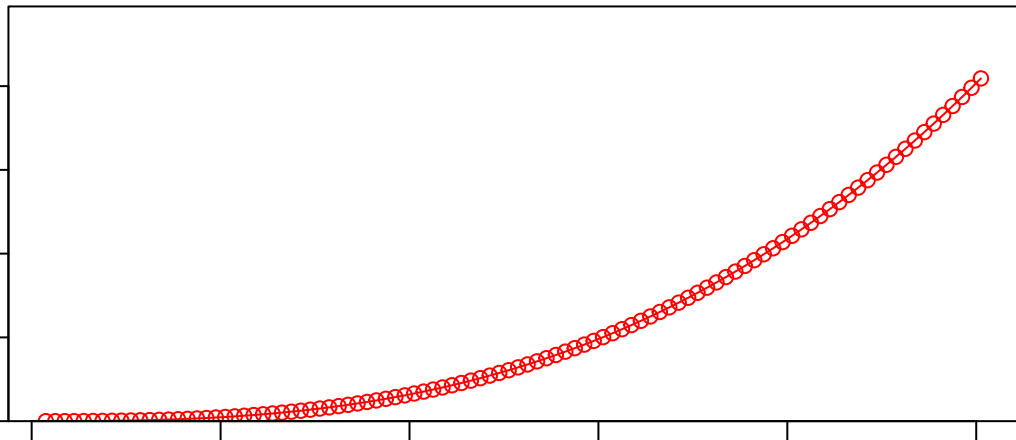
40

60

80

100

Female length (cm)



Spawning output

20
15
10
5
0

0

20

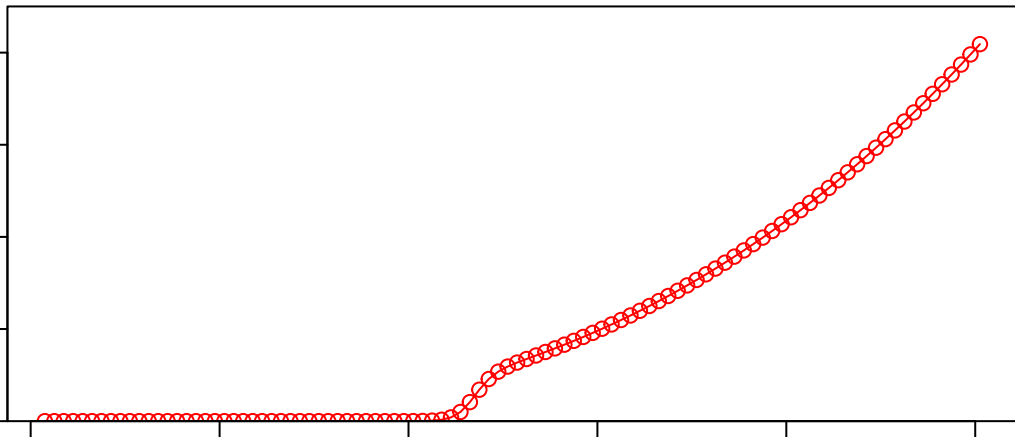
40

60

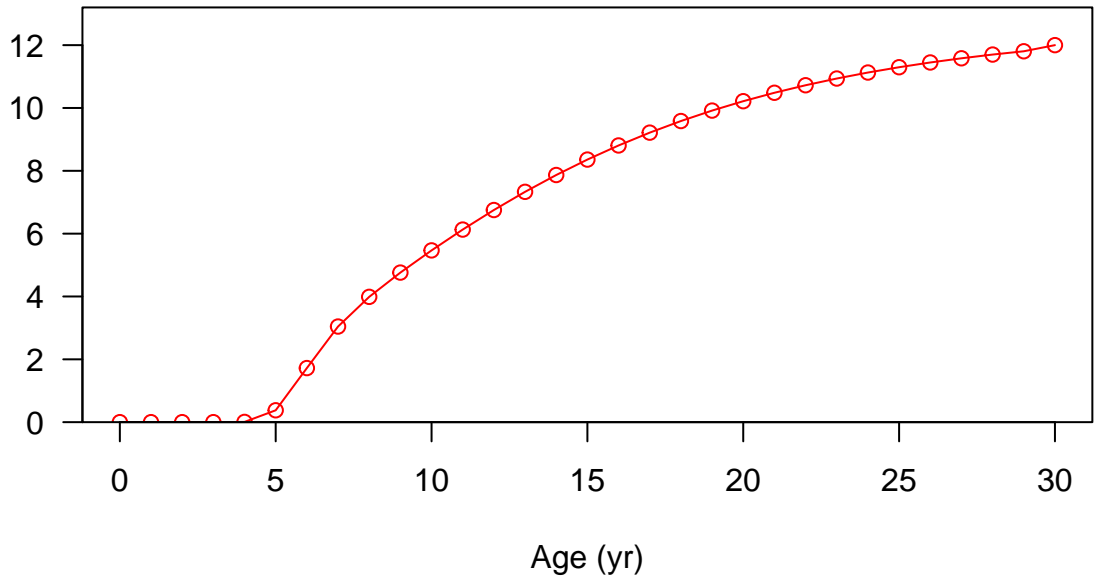
80

100

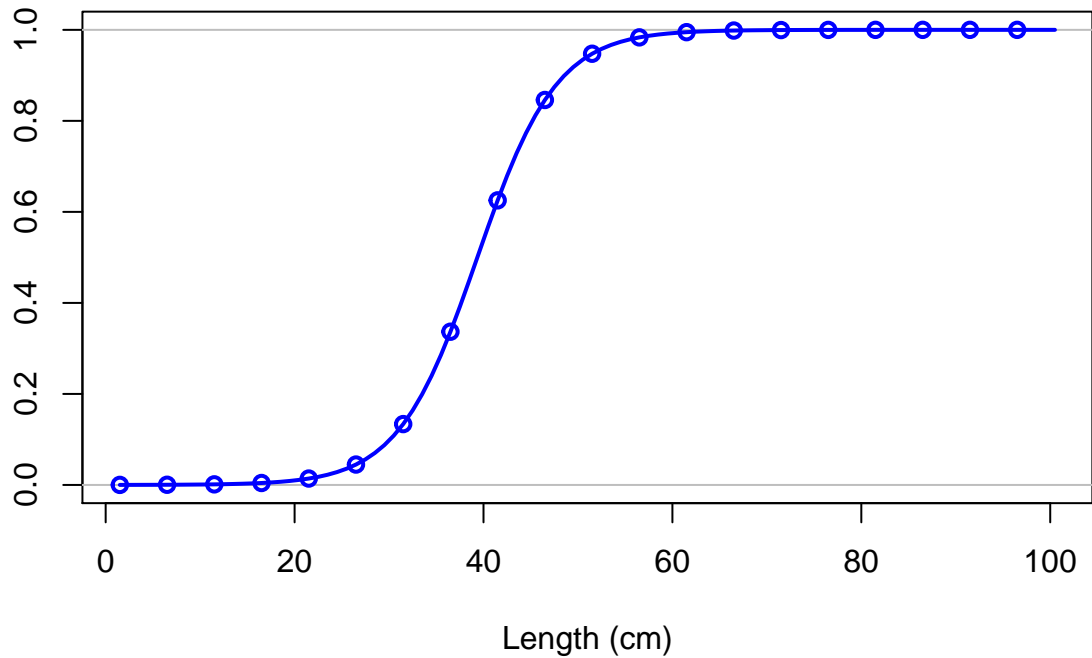
Length (cm)



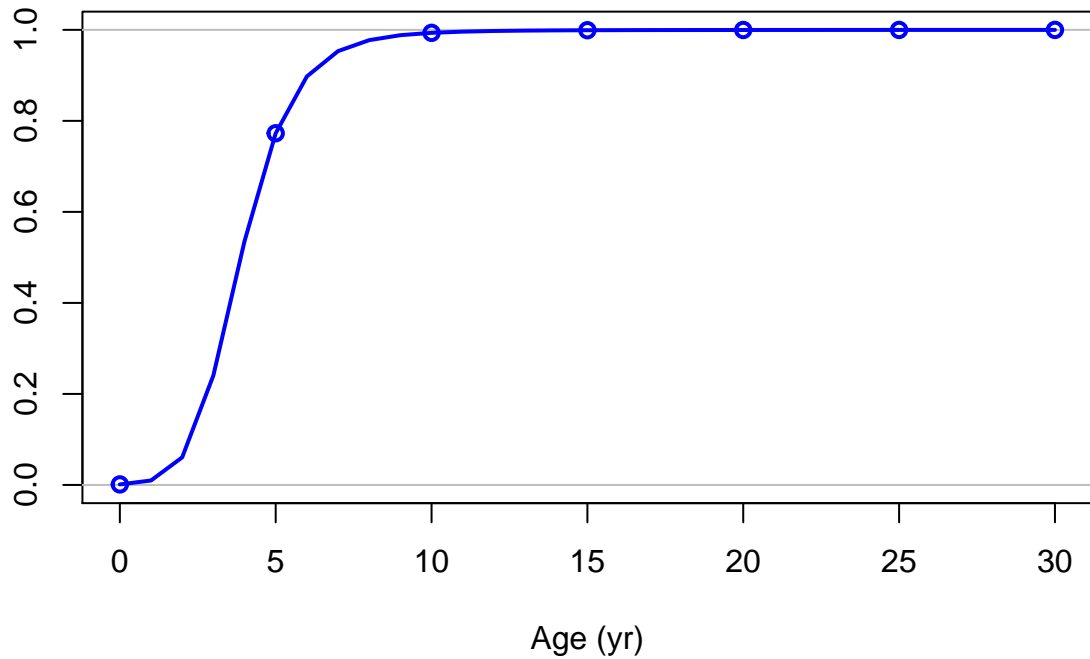
Spawning output



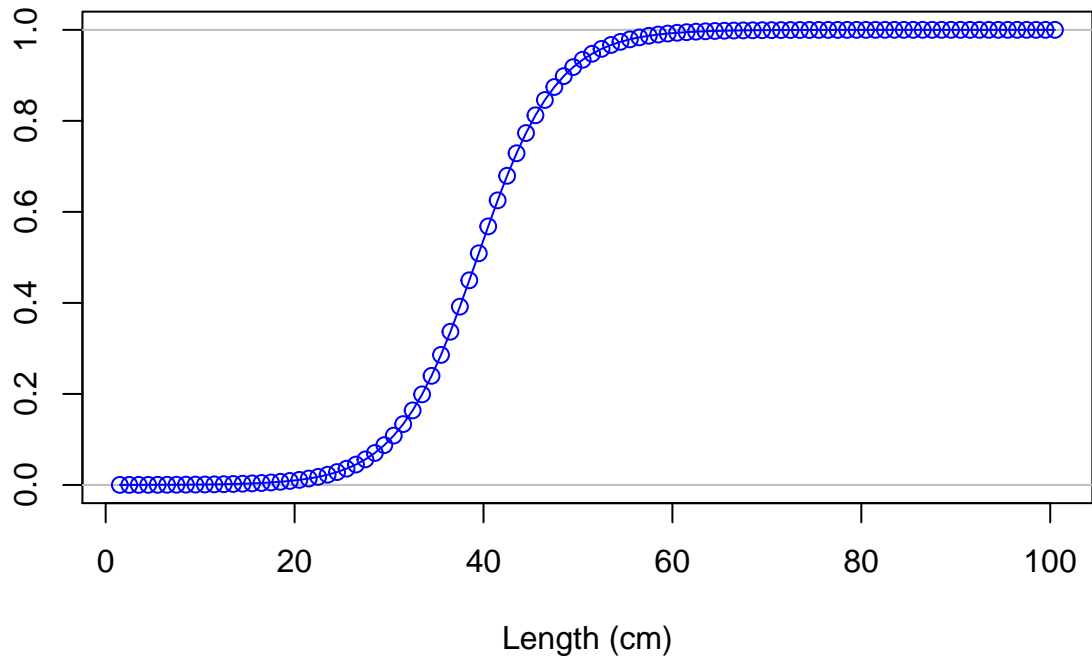
Selectivity

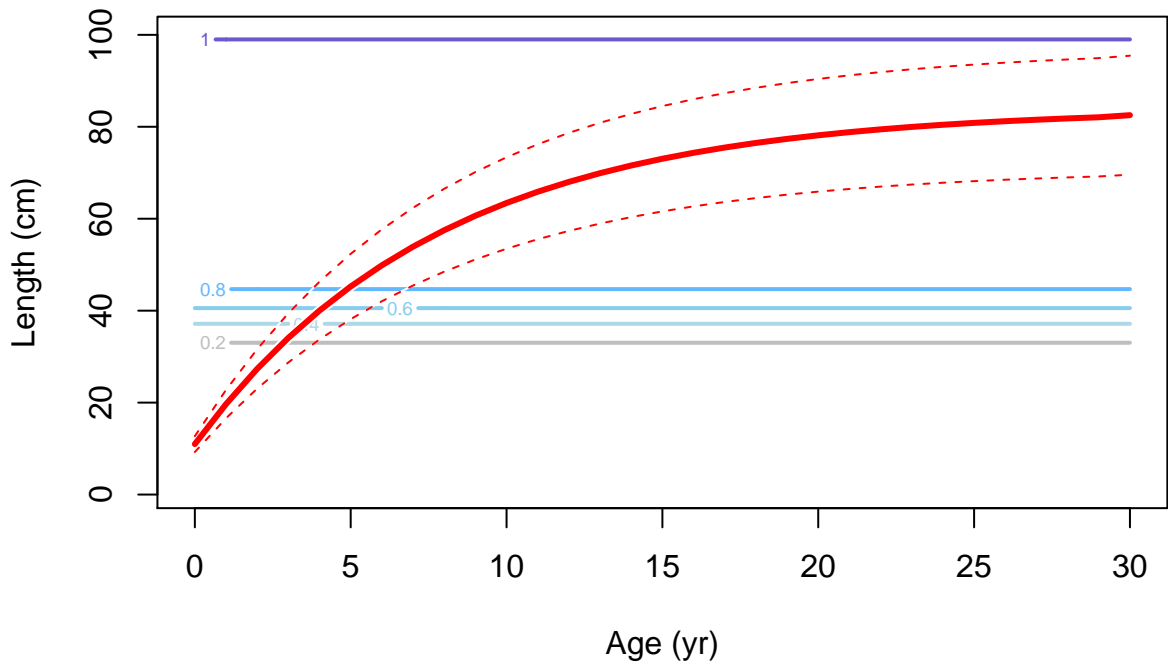


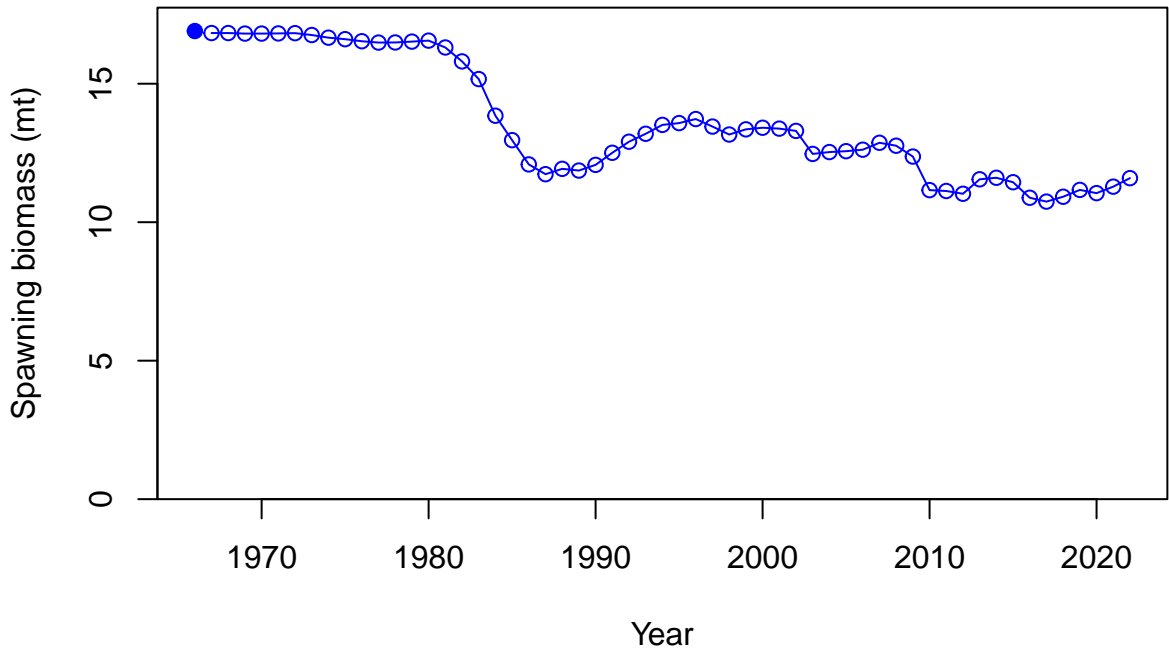
Selectivity



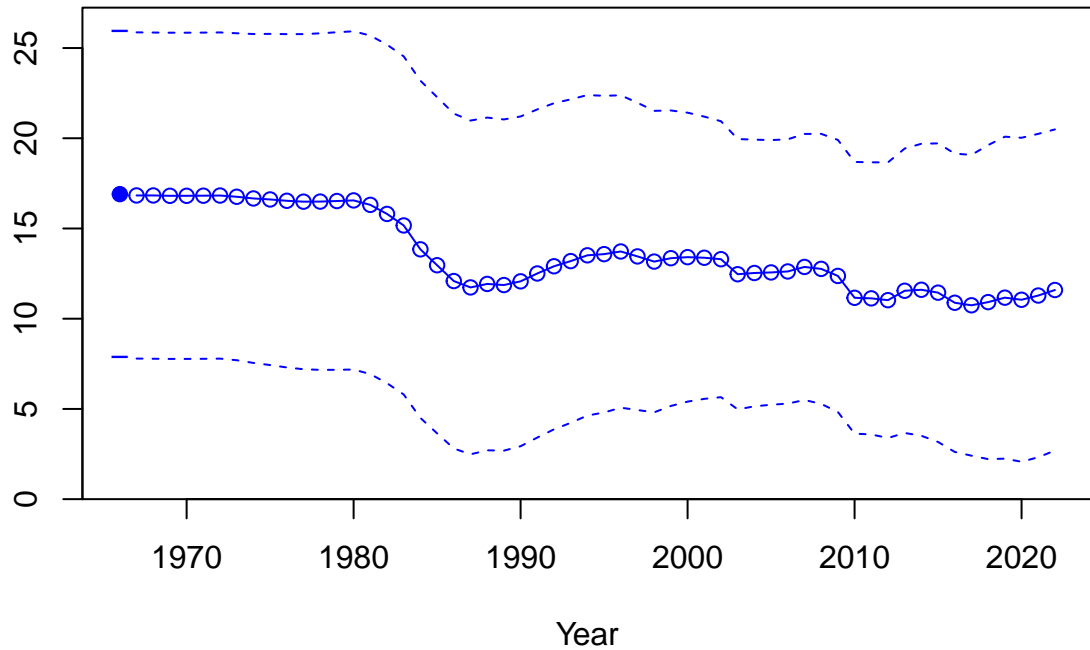
Selectivity



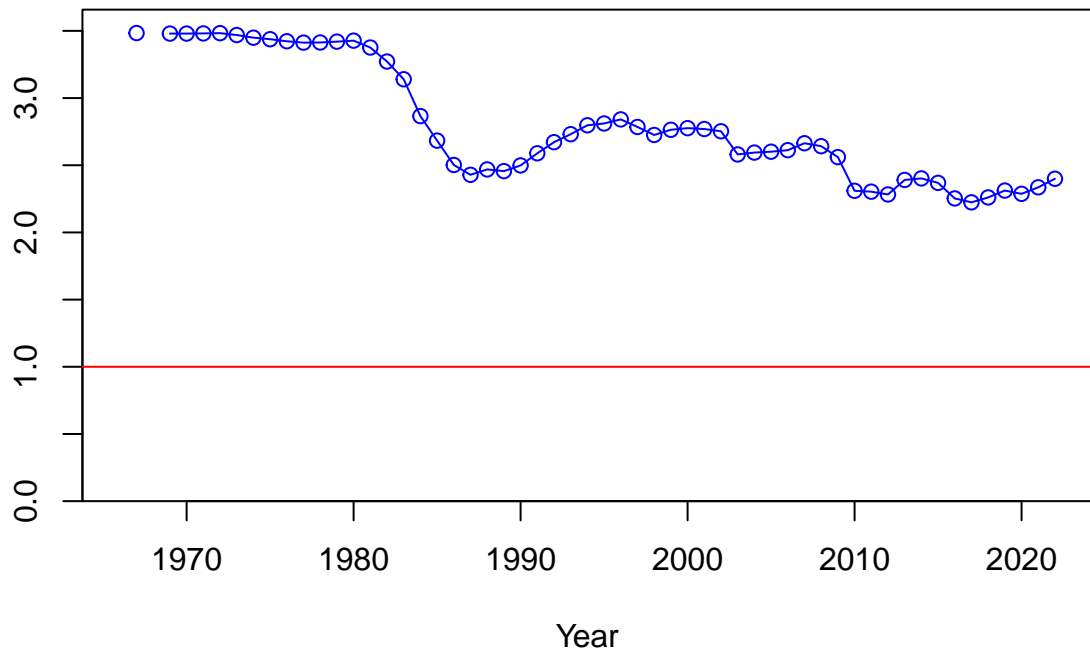




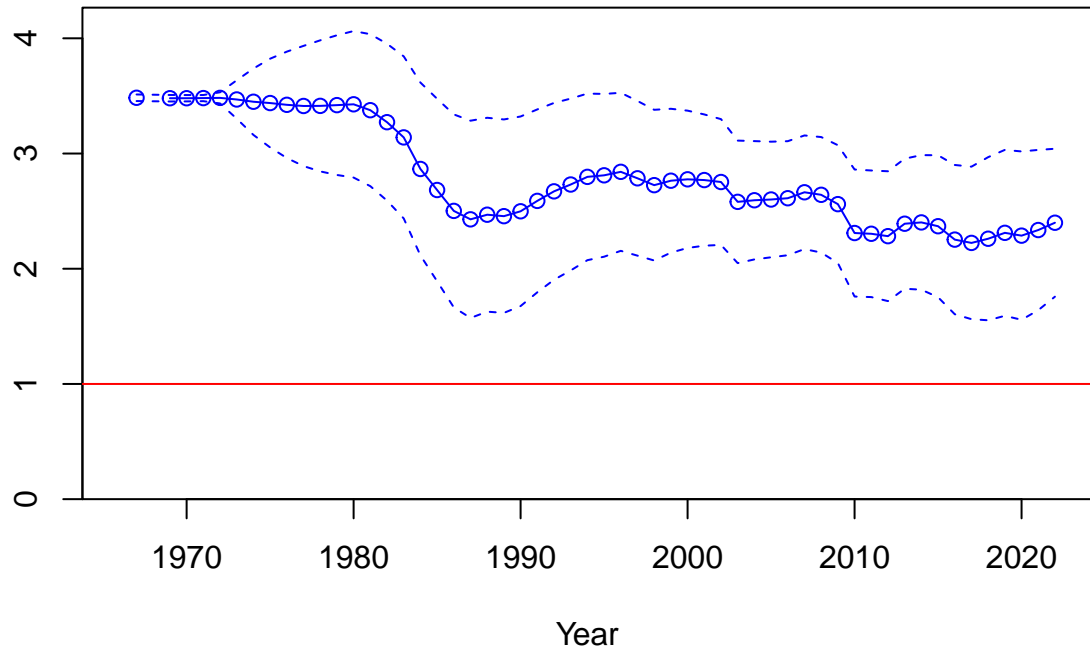
Spawning biomass (mt)

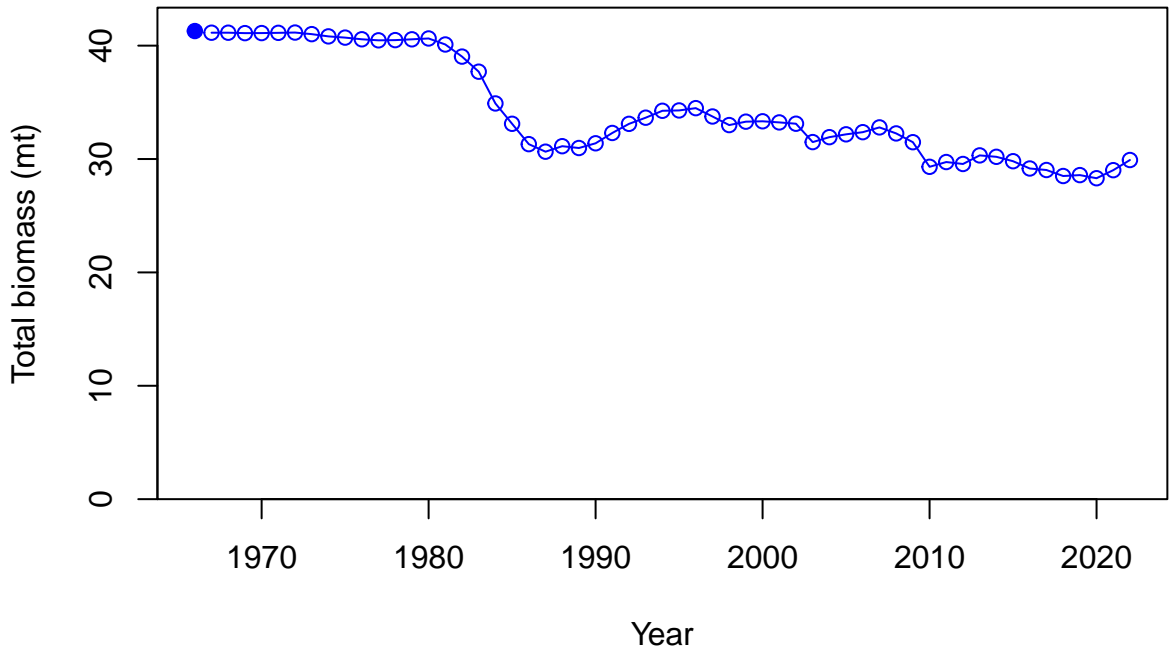


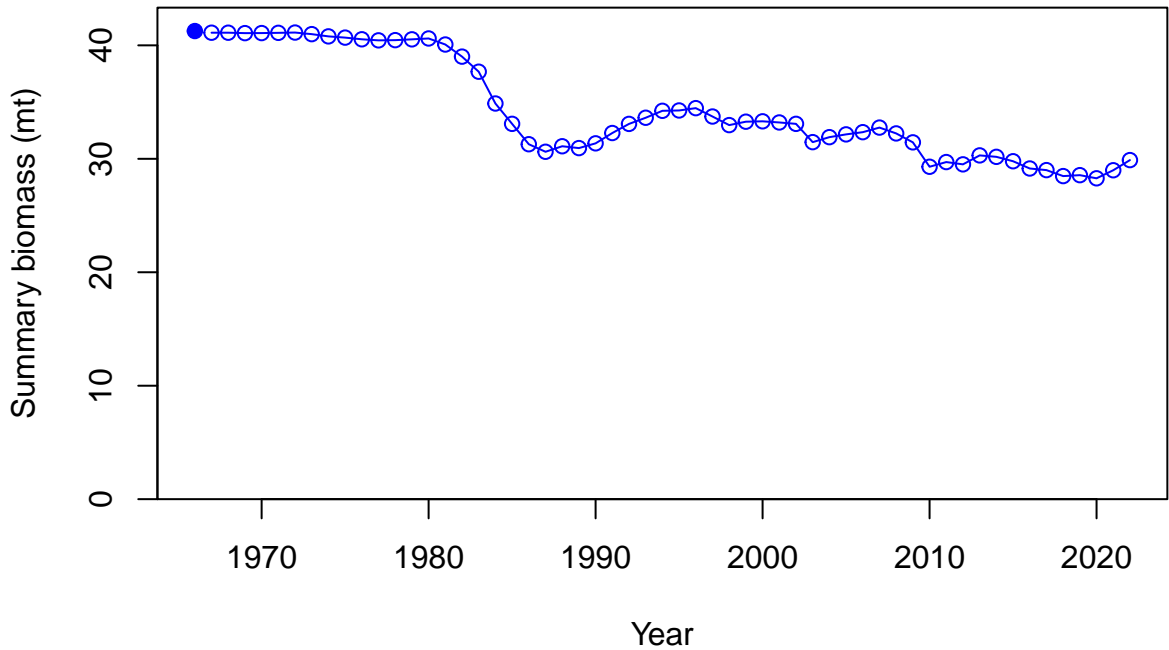
Relative spawning biomass: B/B_{MSY}



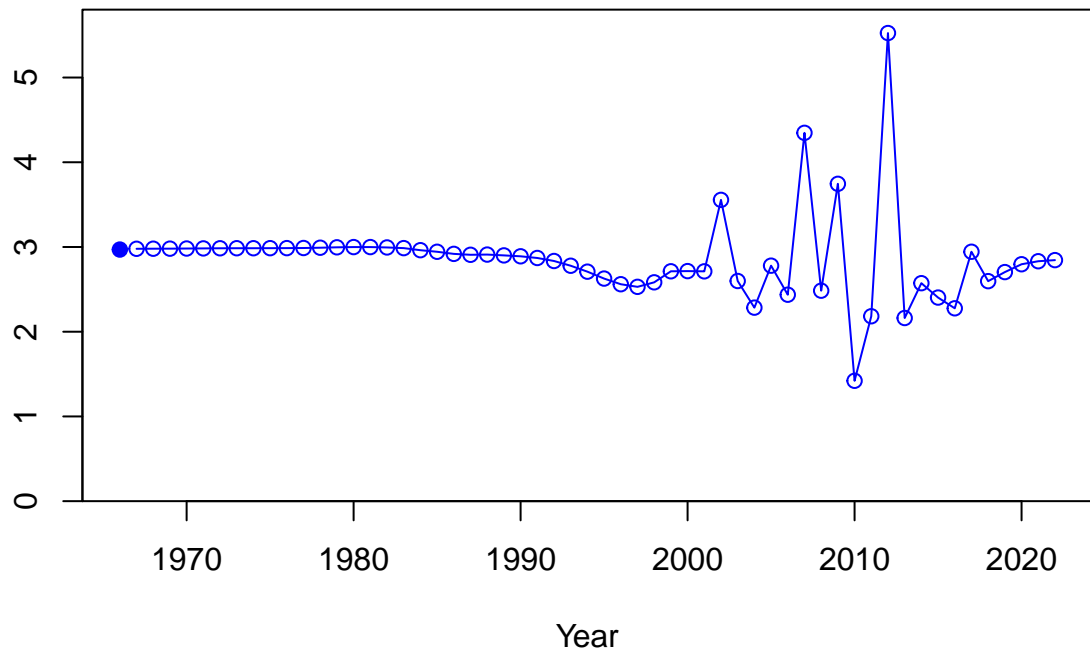
Relative spawning biomass: B/B_{MSY}



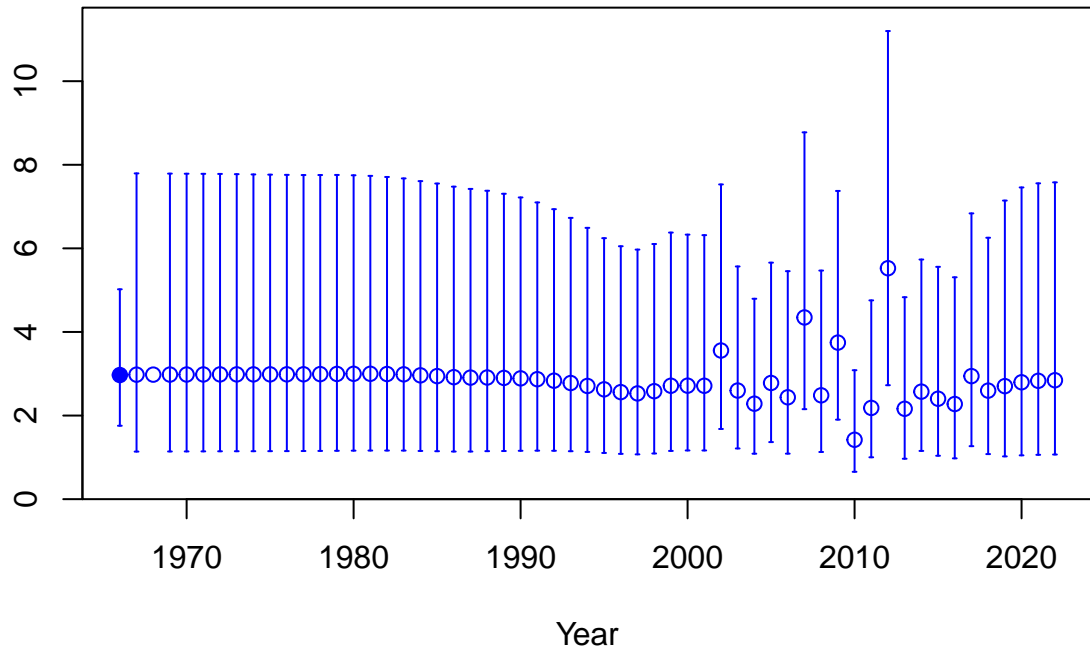




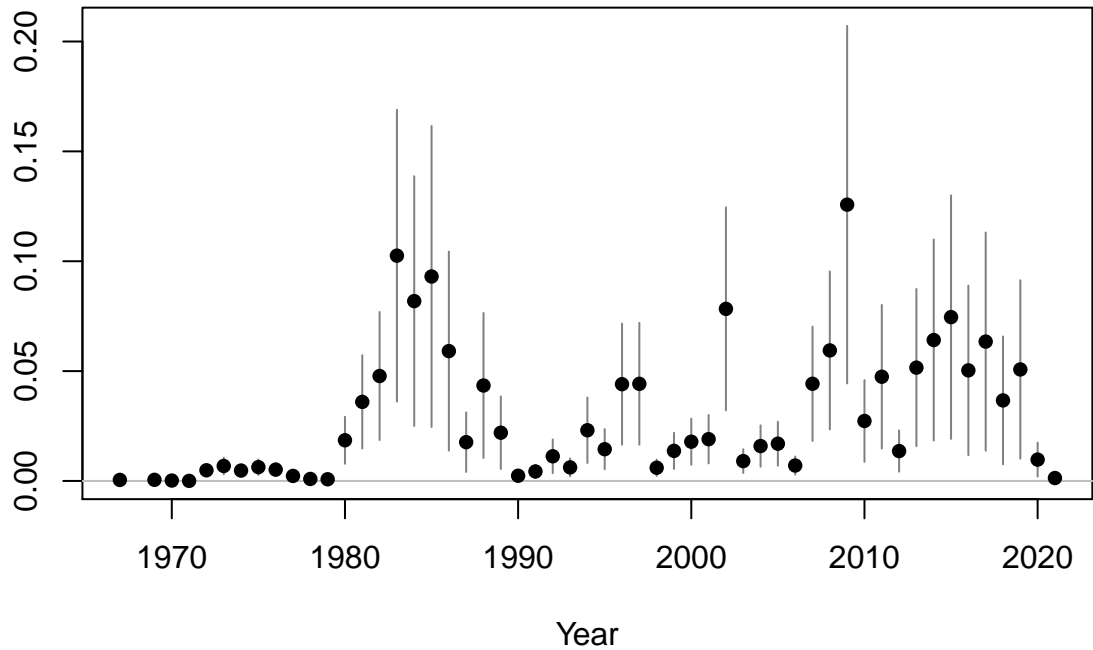
Age-0 recruits (1,000s)

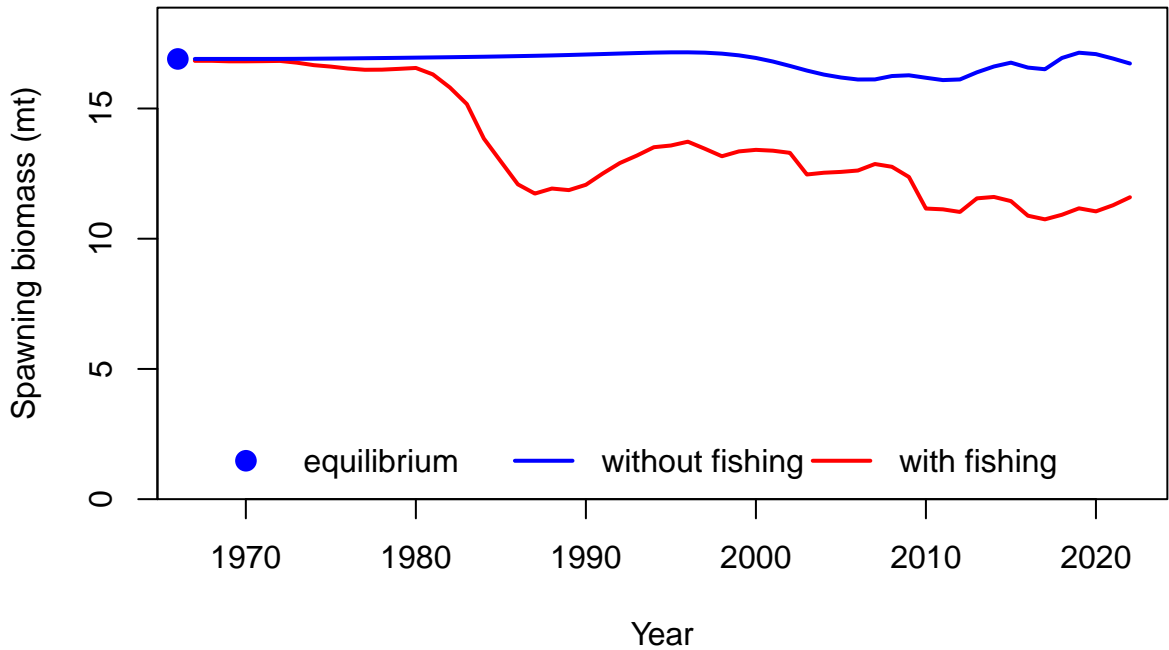


Age-0 recruits (1,000s)

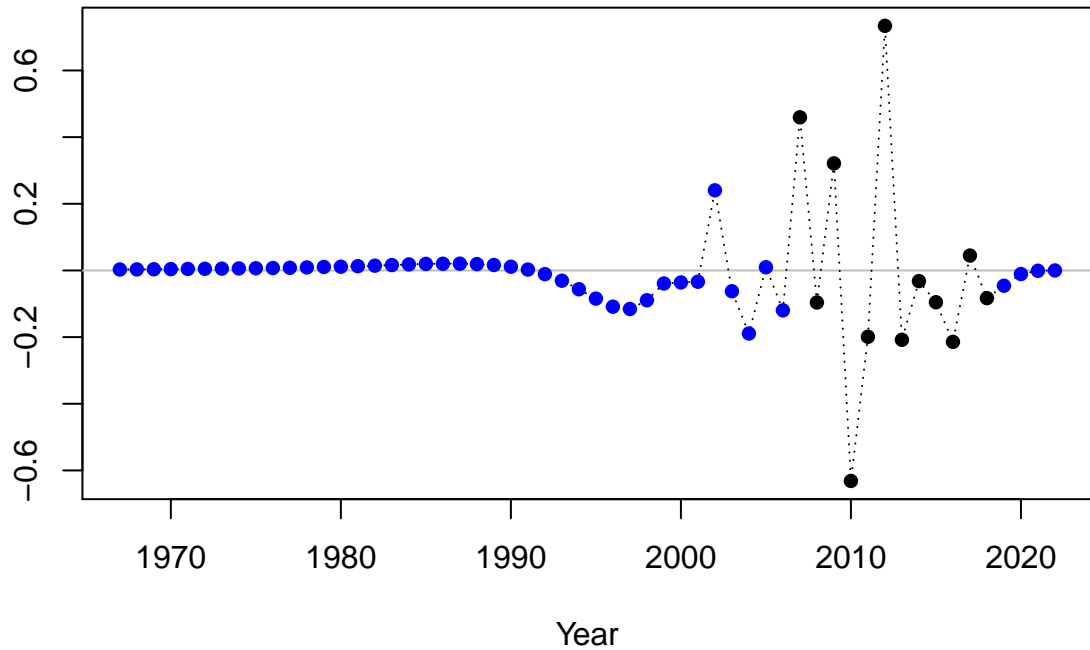


Summary Fishing Mortality

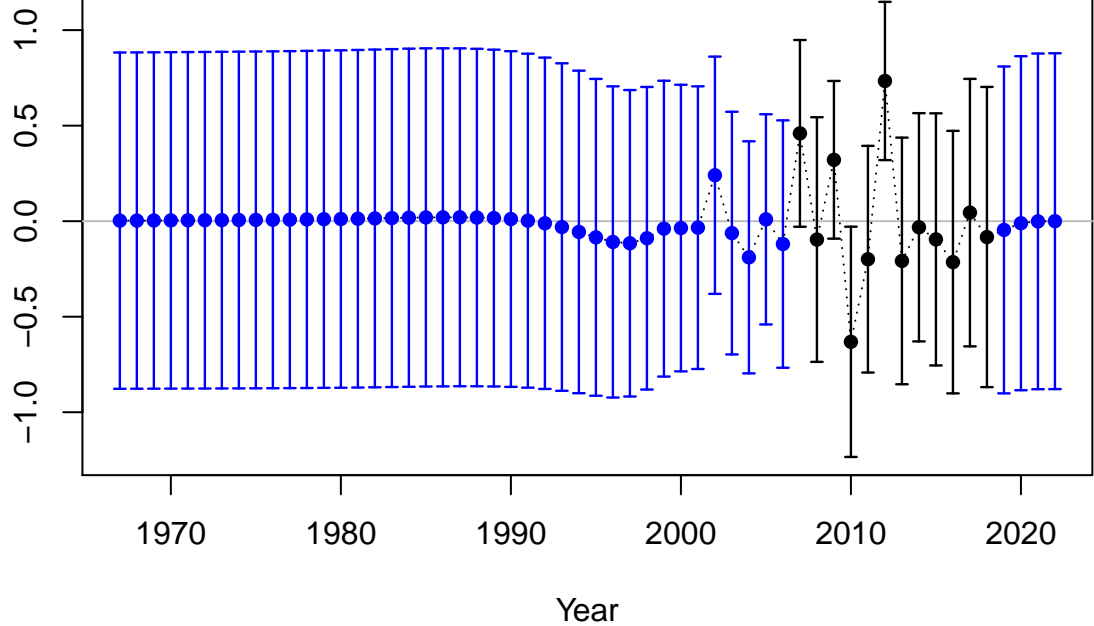




Log recruitment deviation

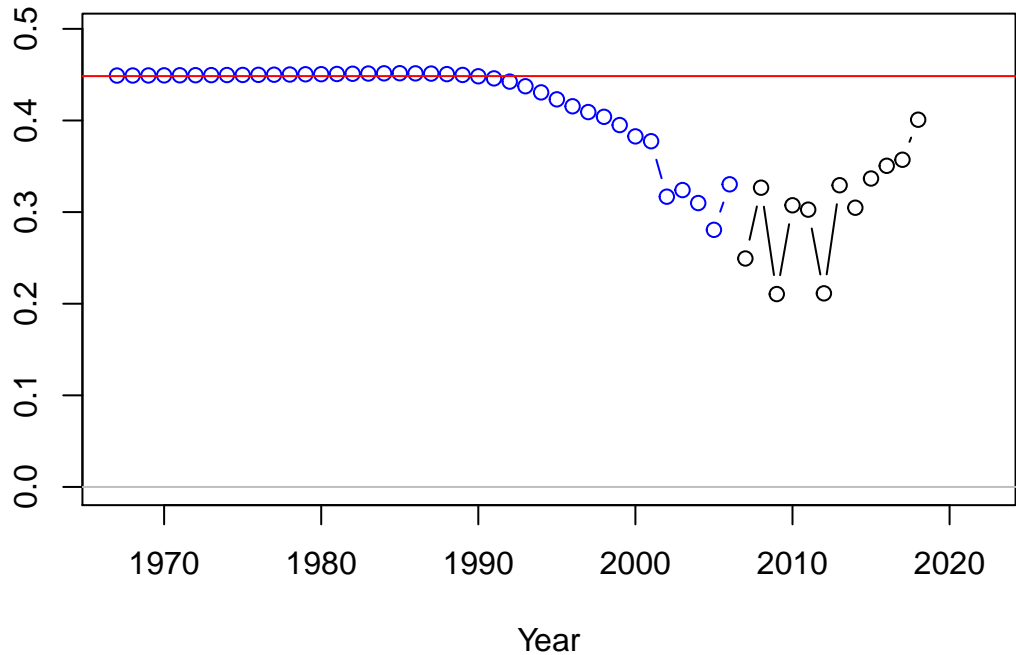


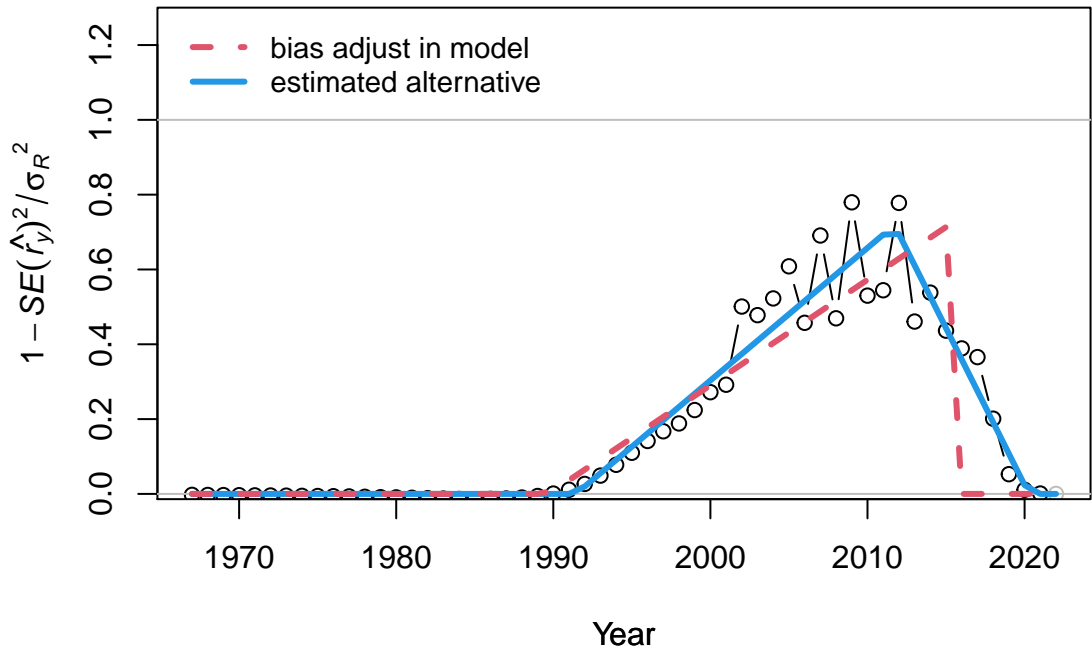
Log recruitment deviation

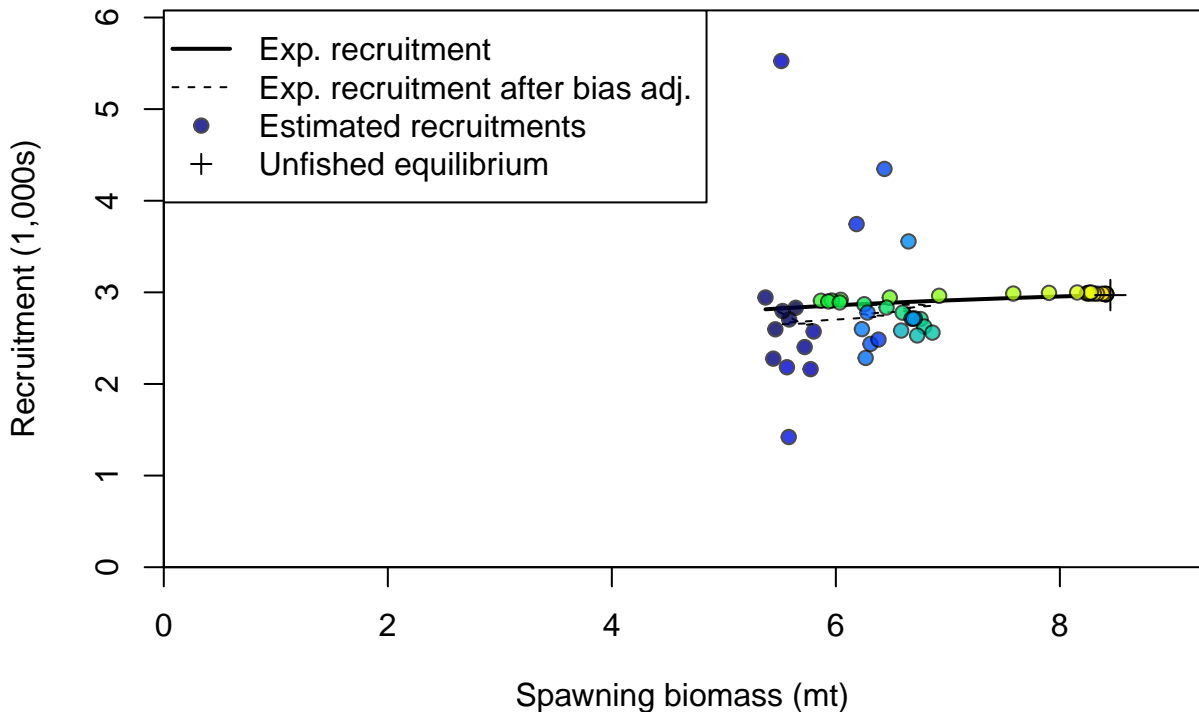


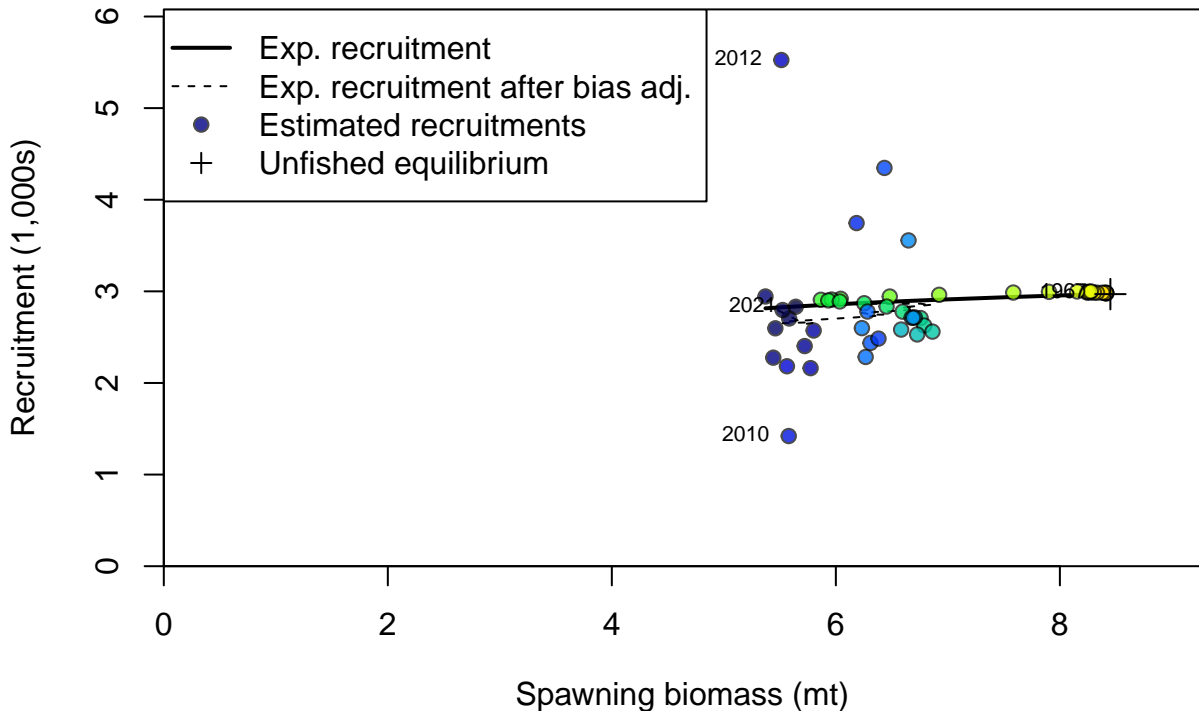
Recruitment deviation variance

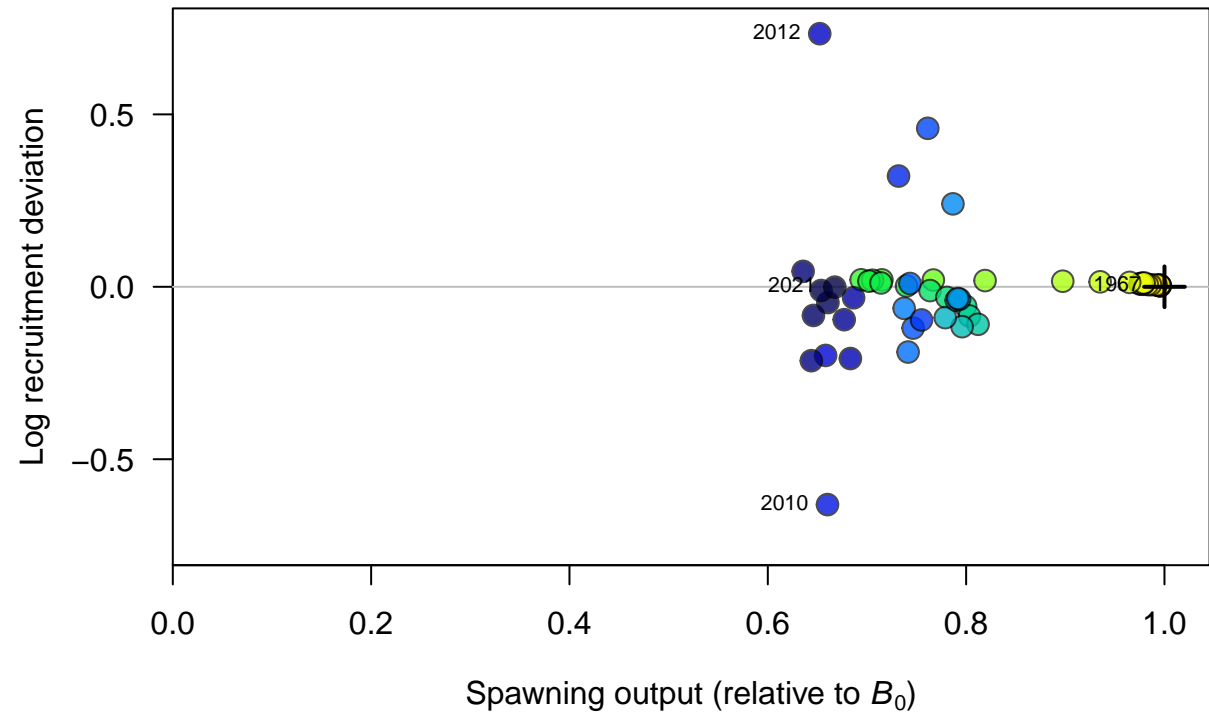
Asymptotic standard error estimate

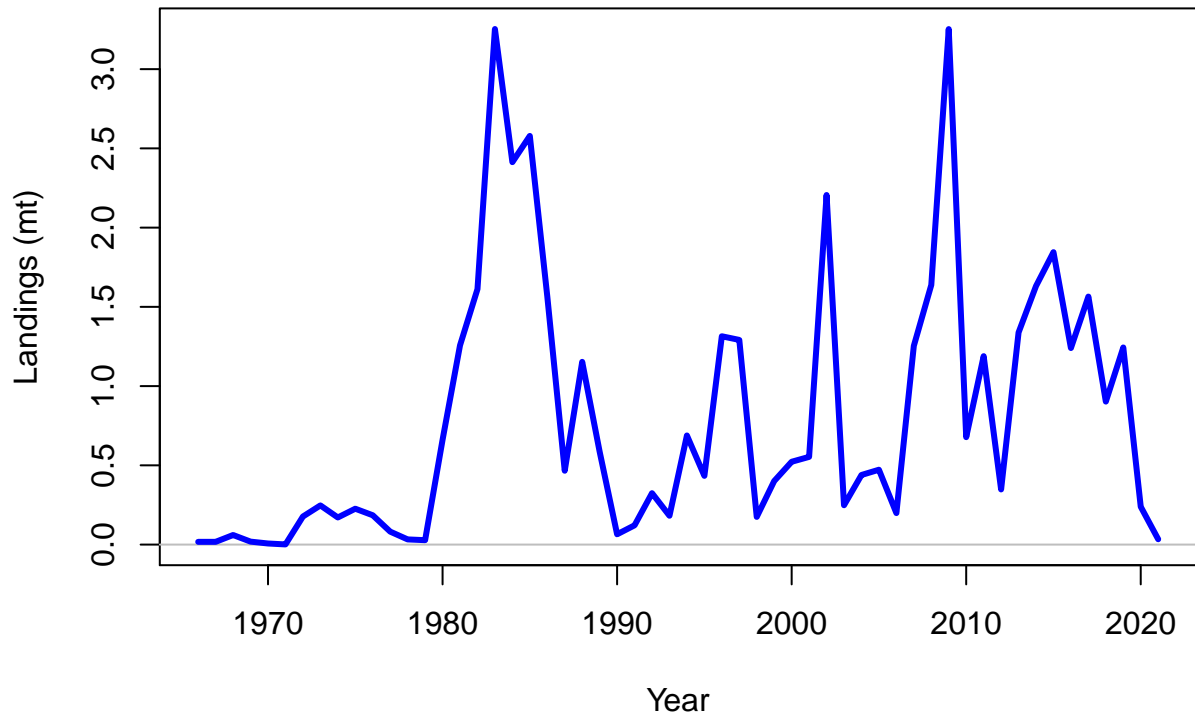


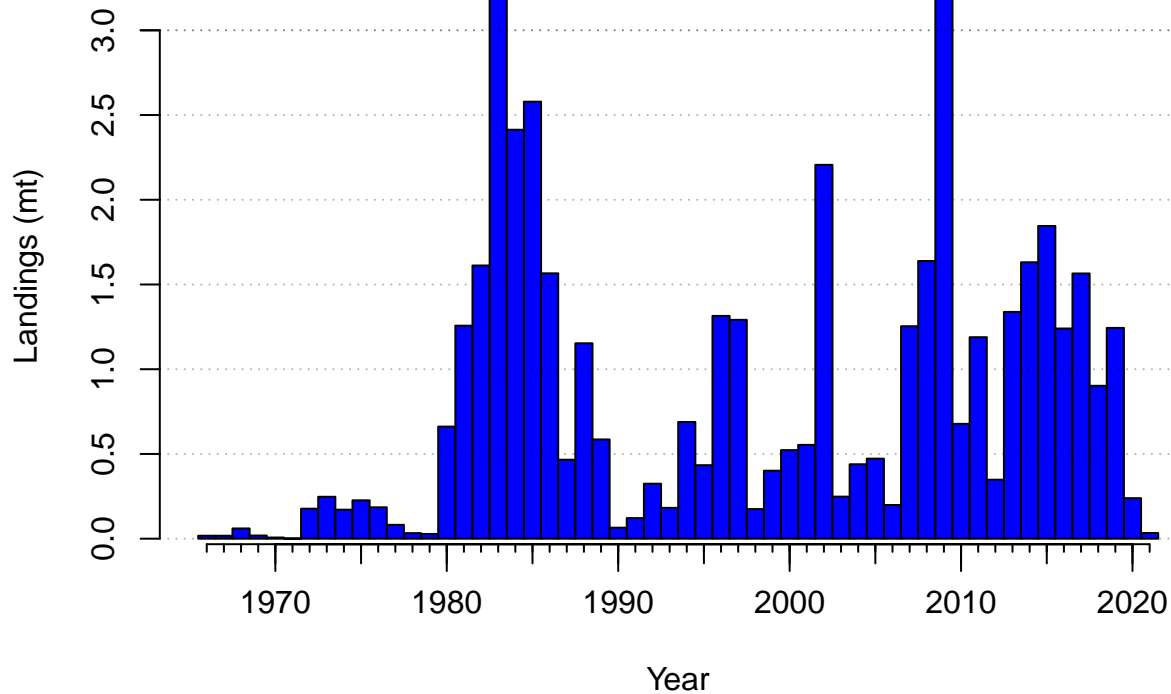


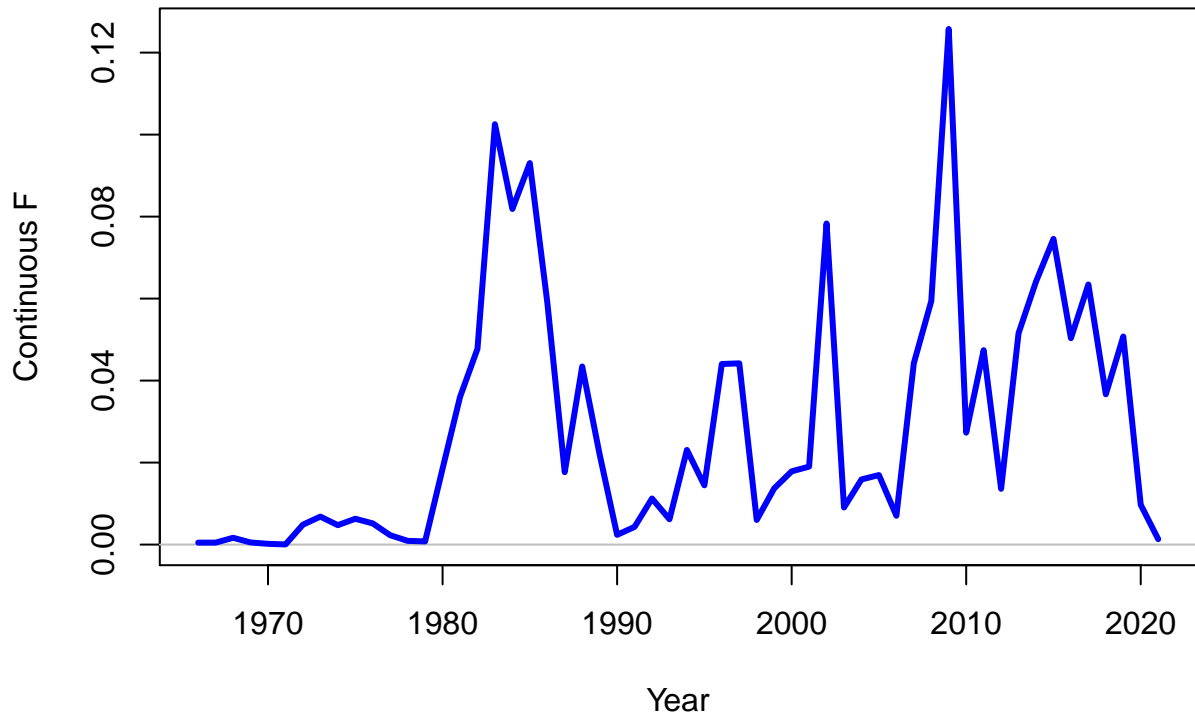




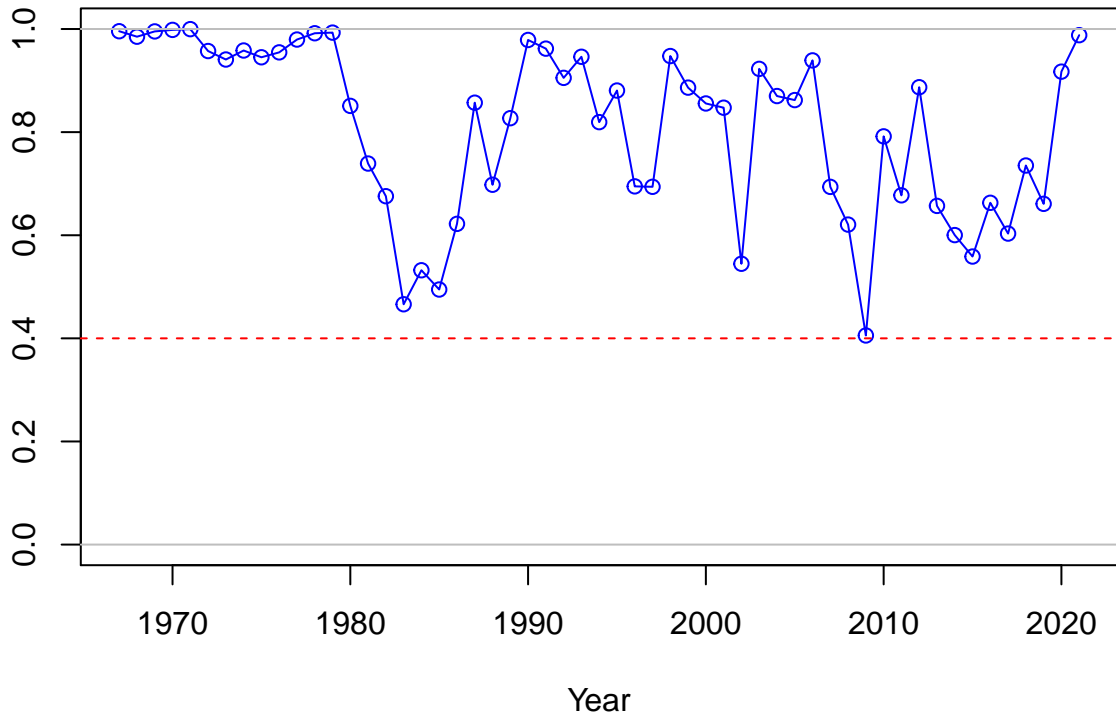




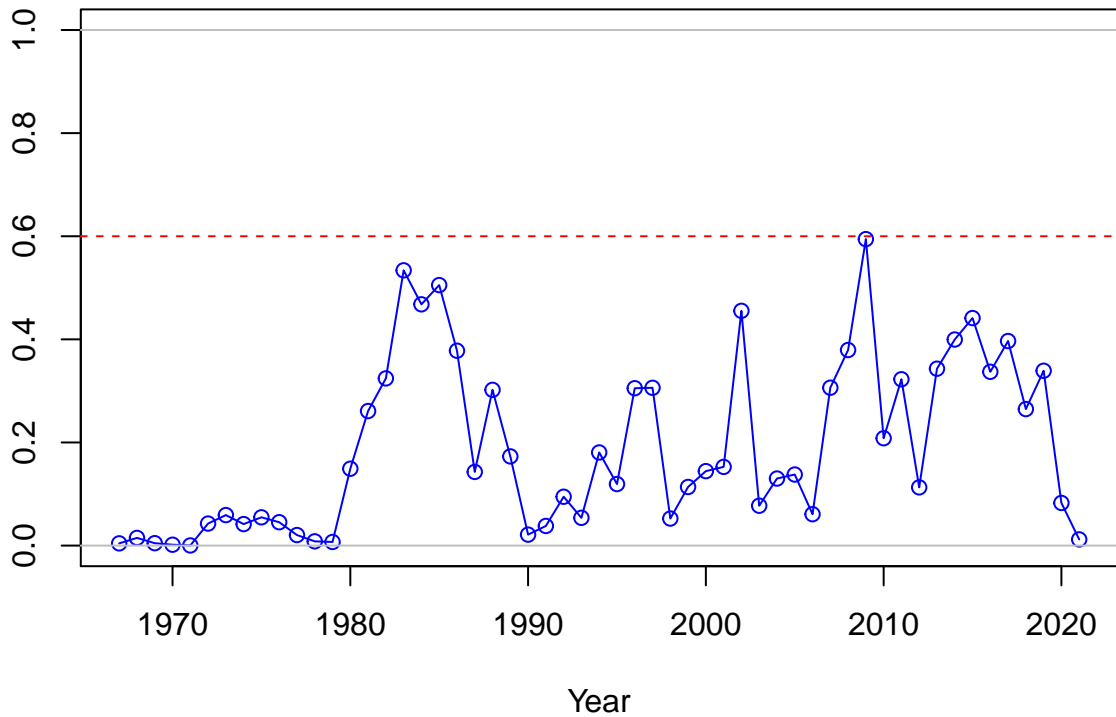




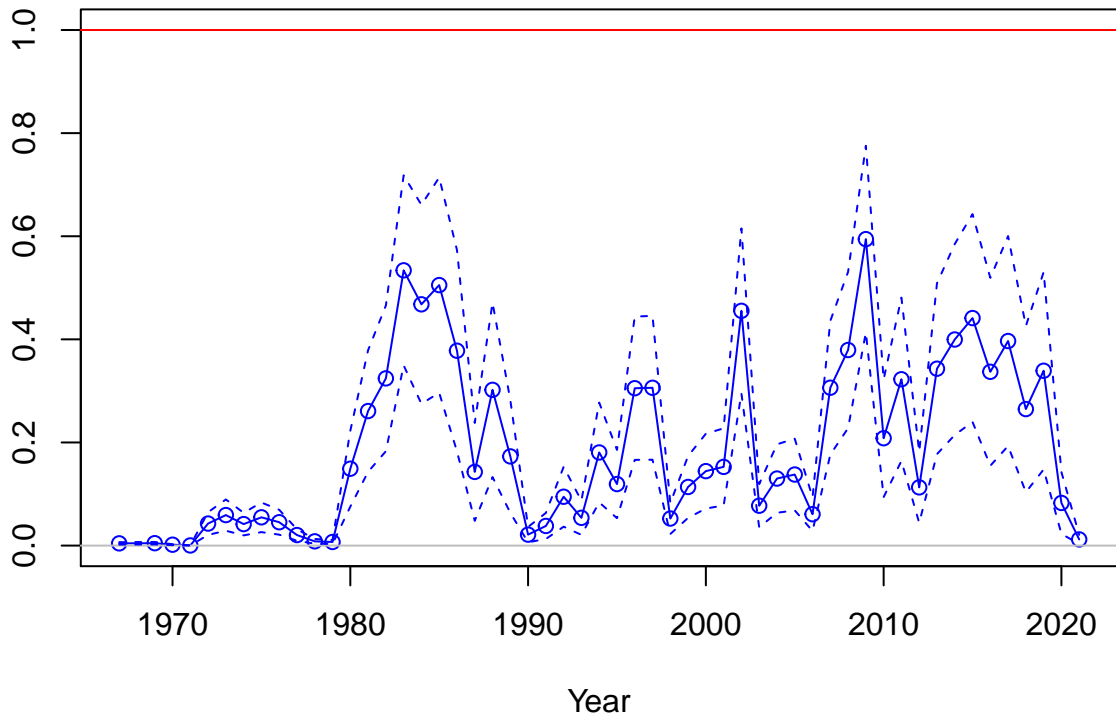
SPR



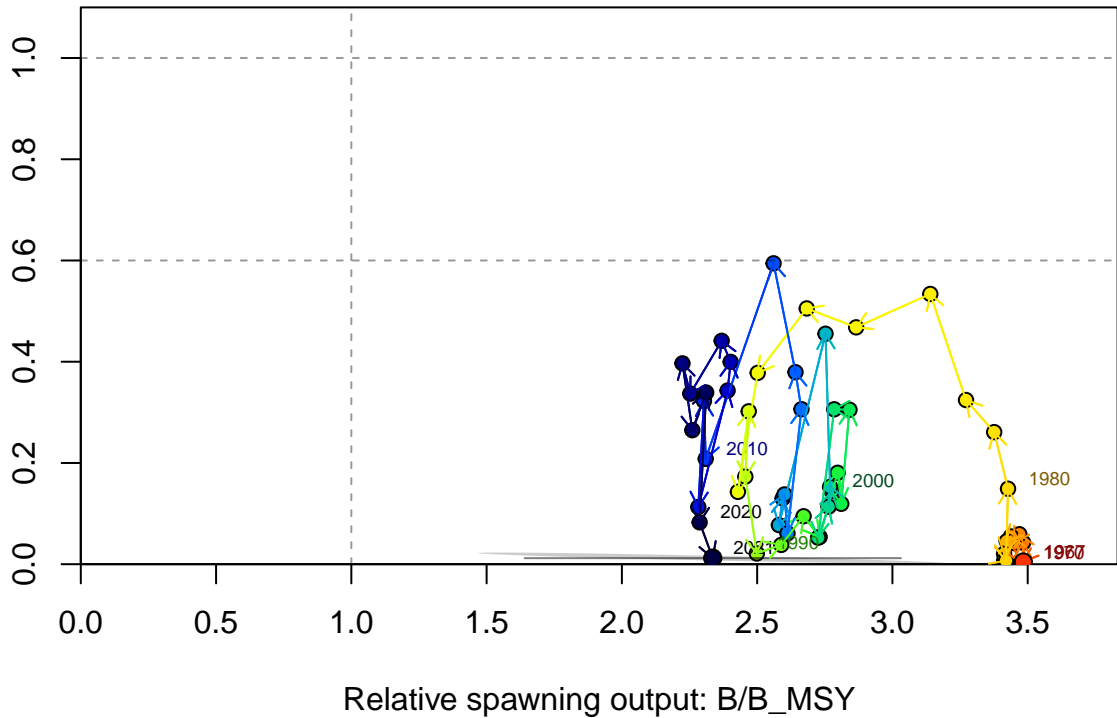
1-SPR



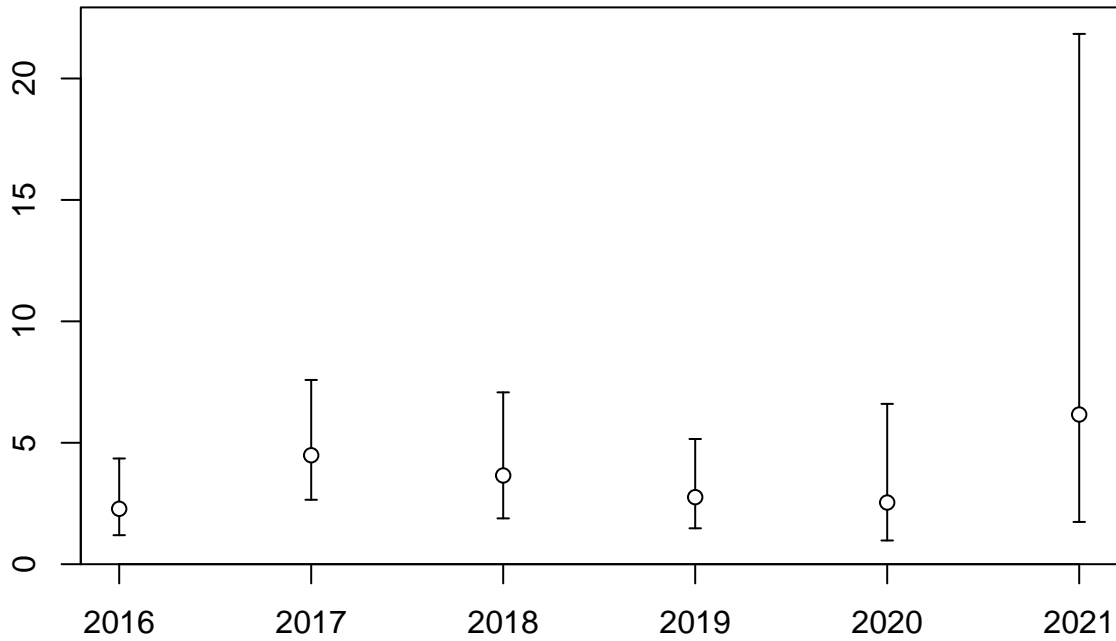
Fishing intensity: 1-SPR



Fishing intensity: 1-SPR

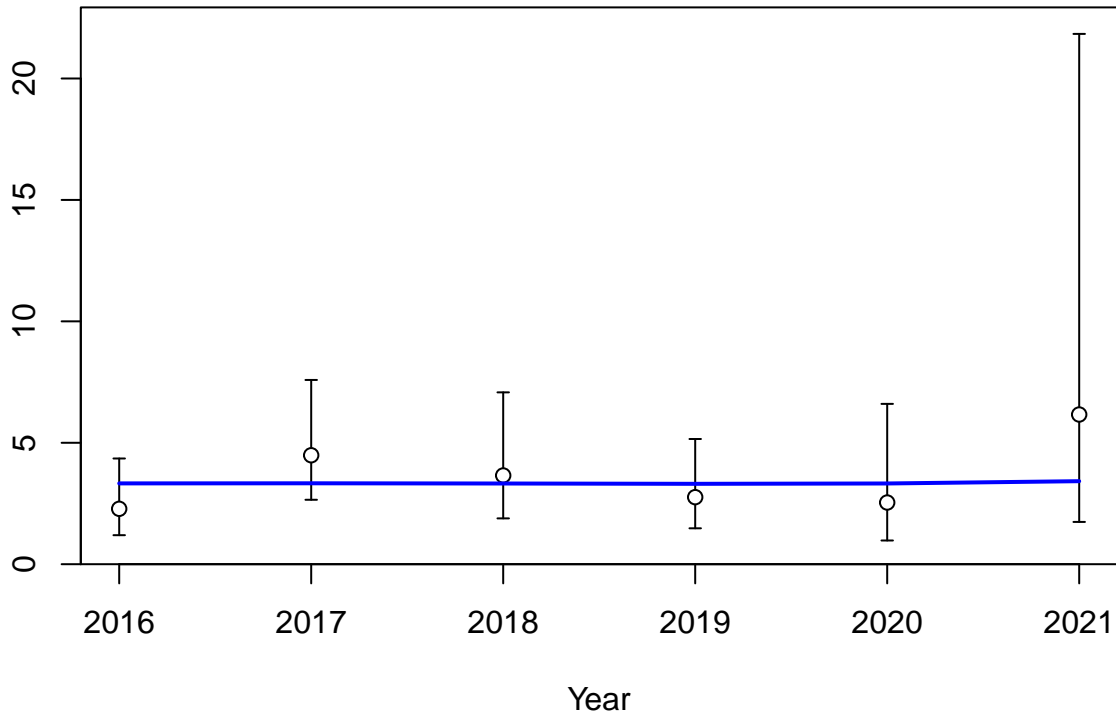


Index

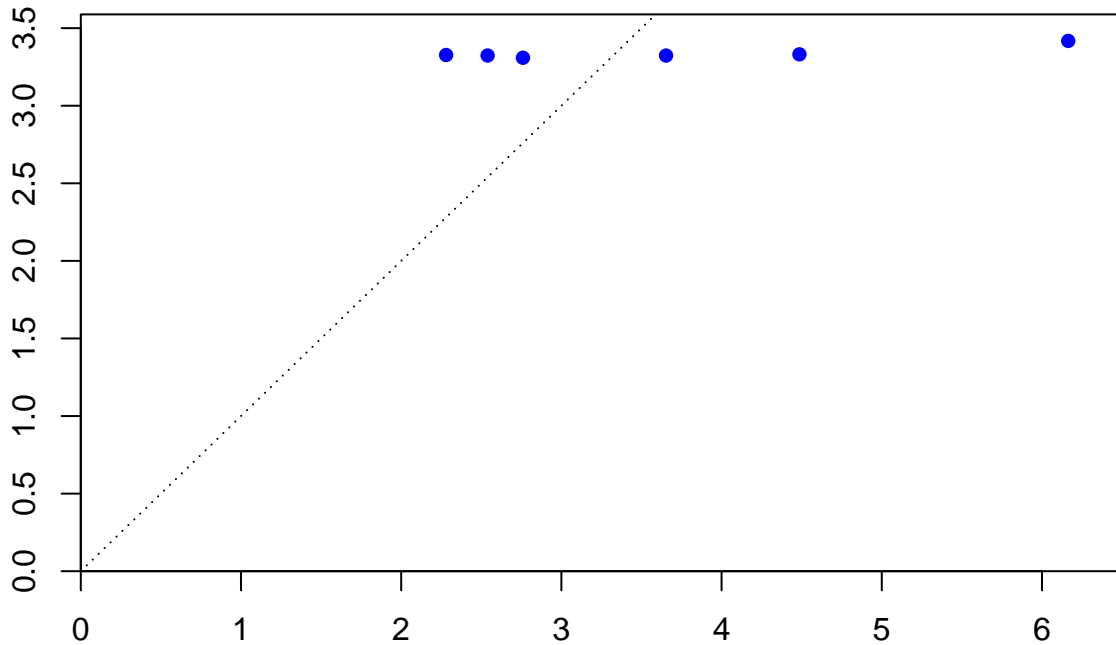


Year

Index



Expected index



Observed index

Log index

3.0
2.5
2.0
1.5
1.0
0.5
0.0

2016

2017

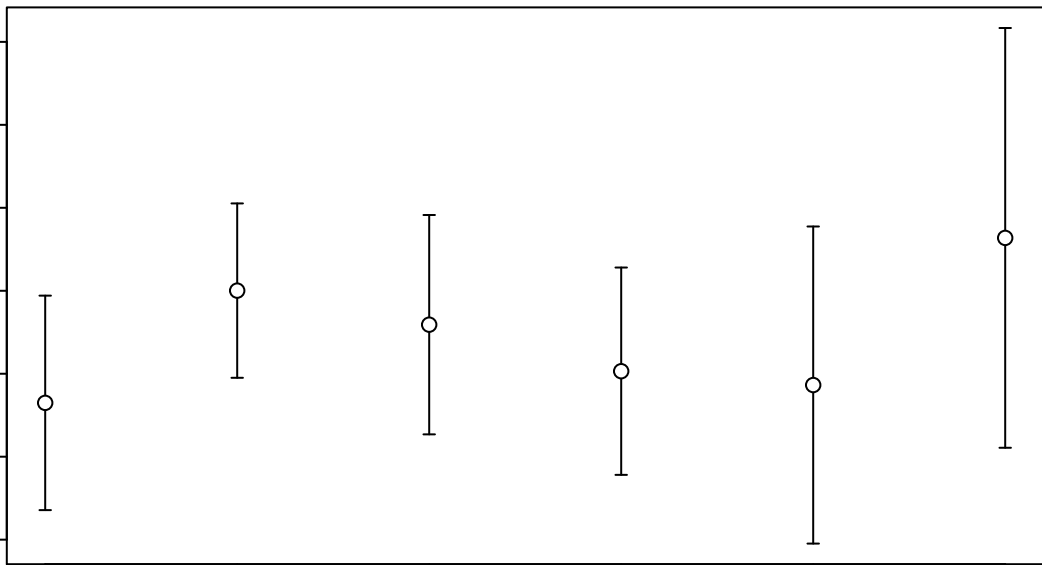
2018

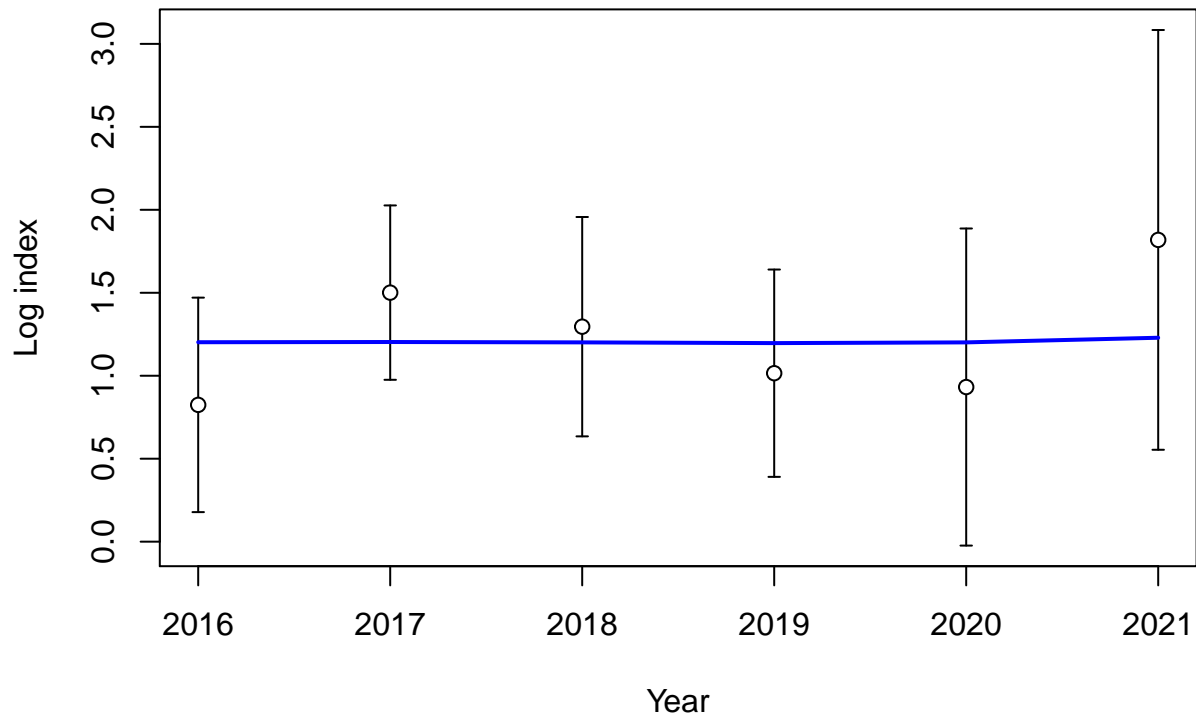
2019

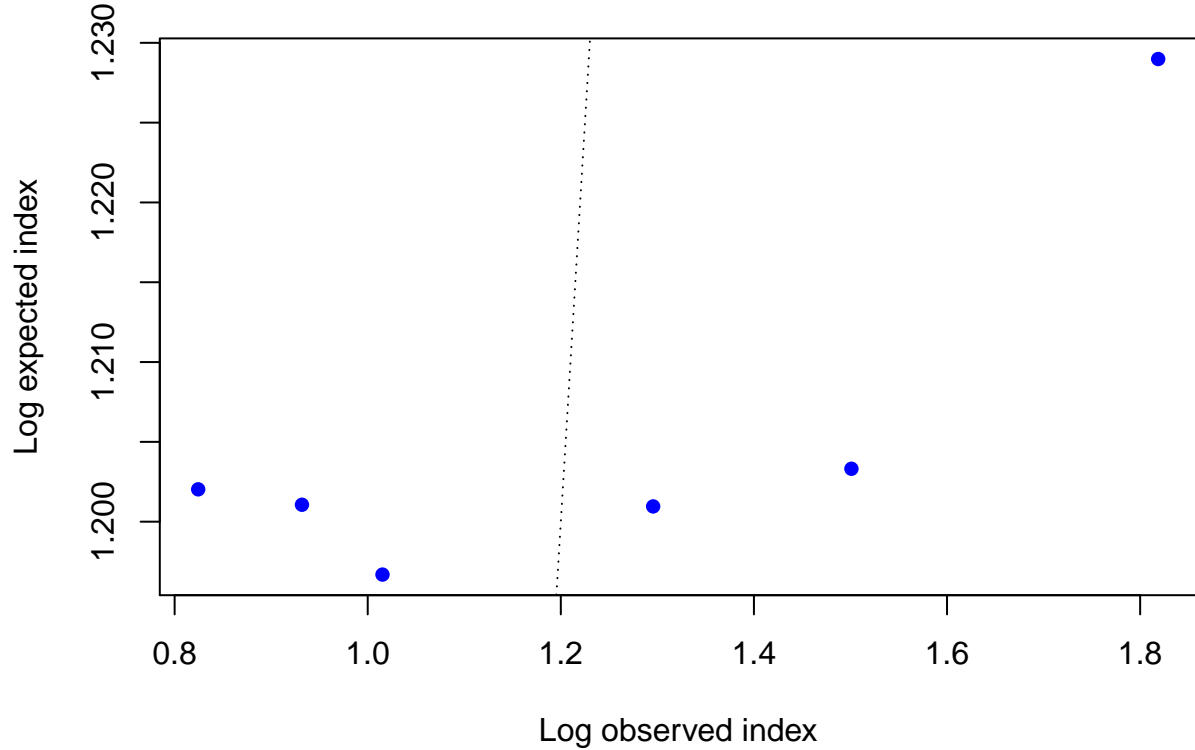
2020

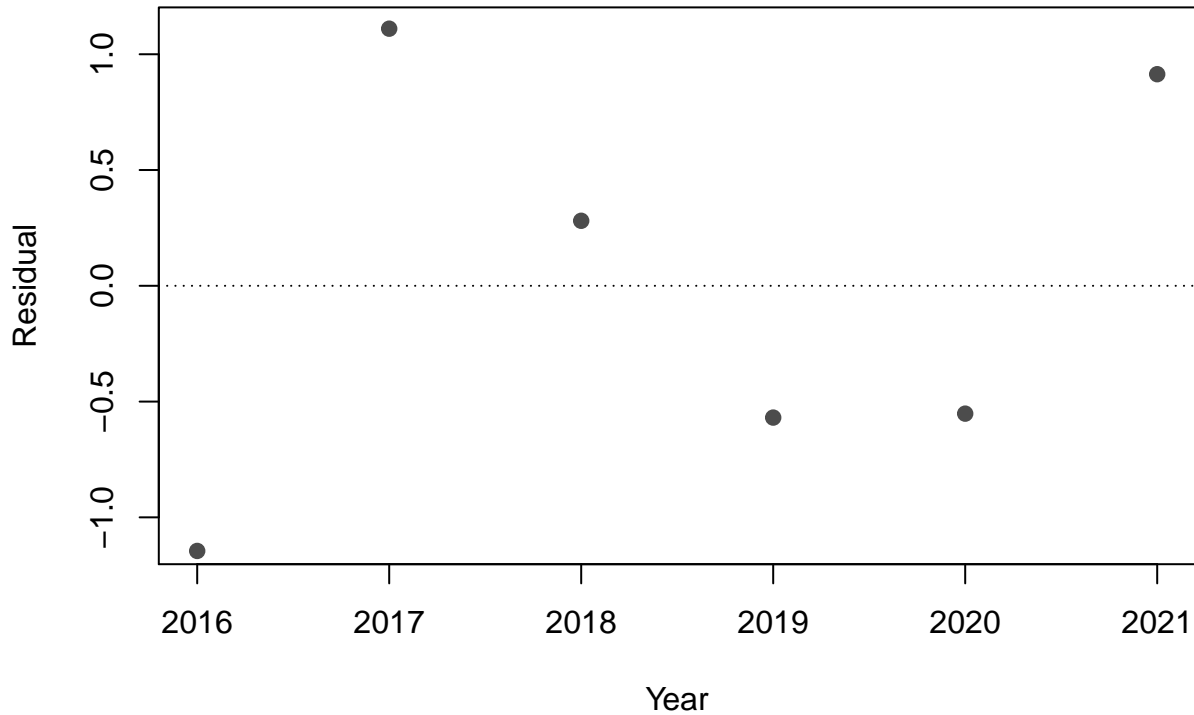
2021

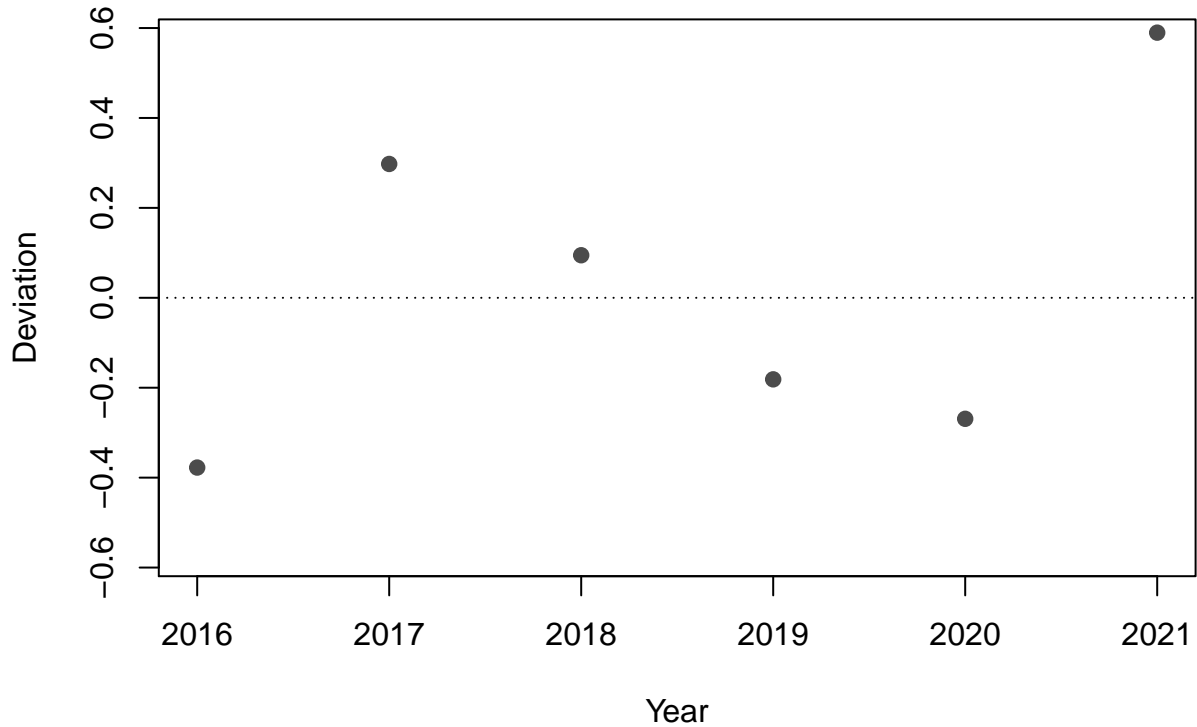
Year

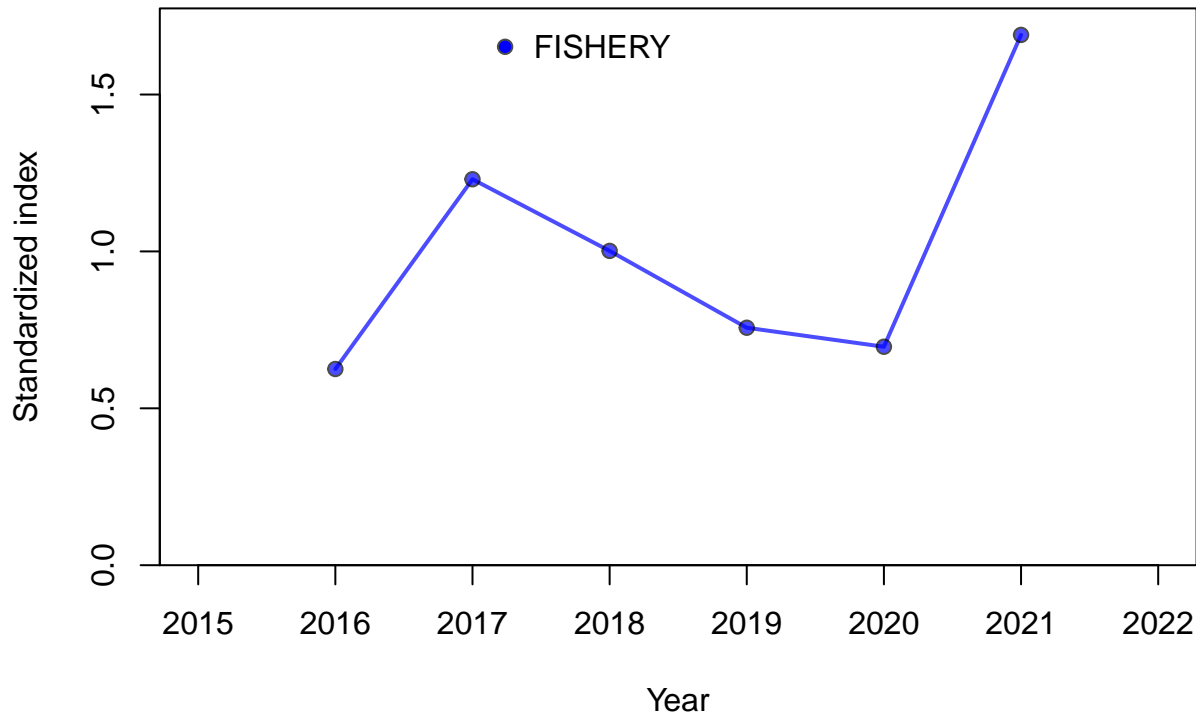


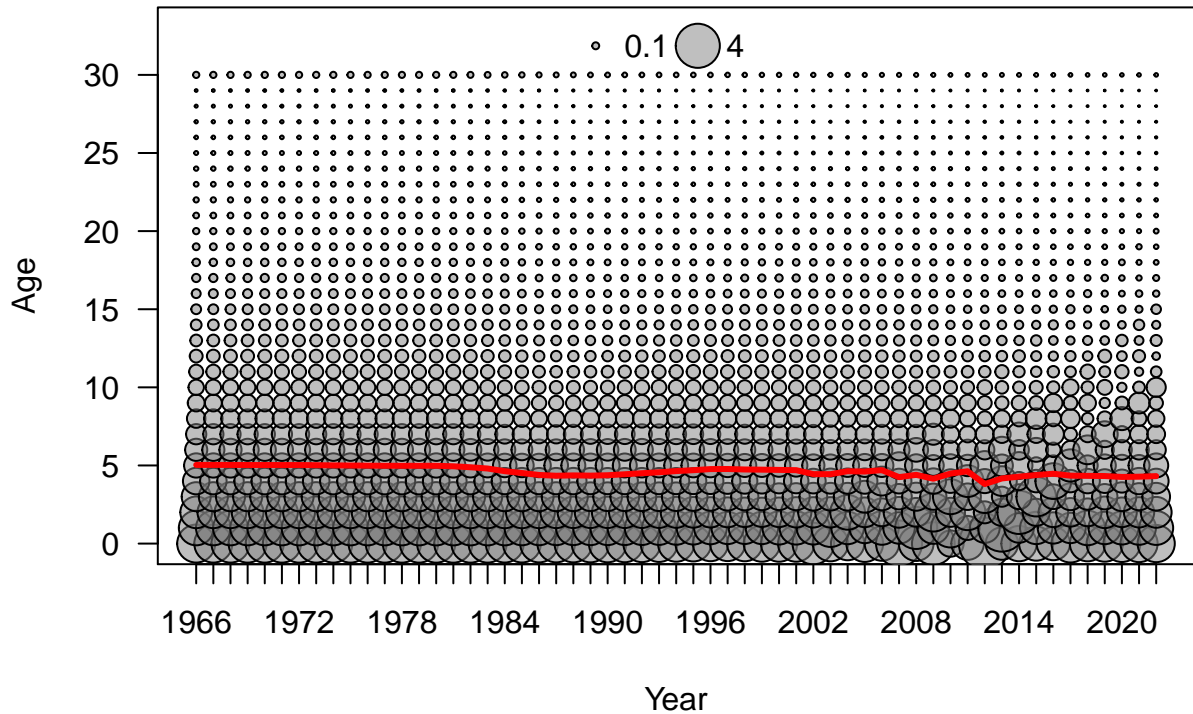


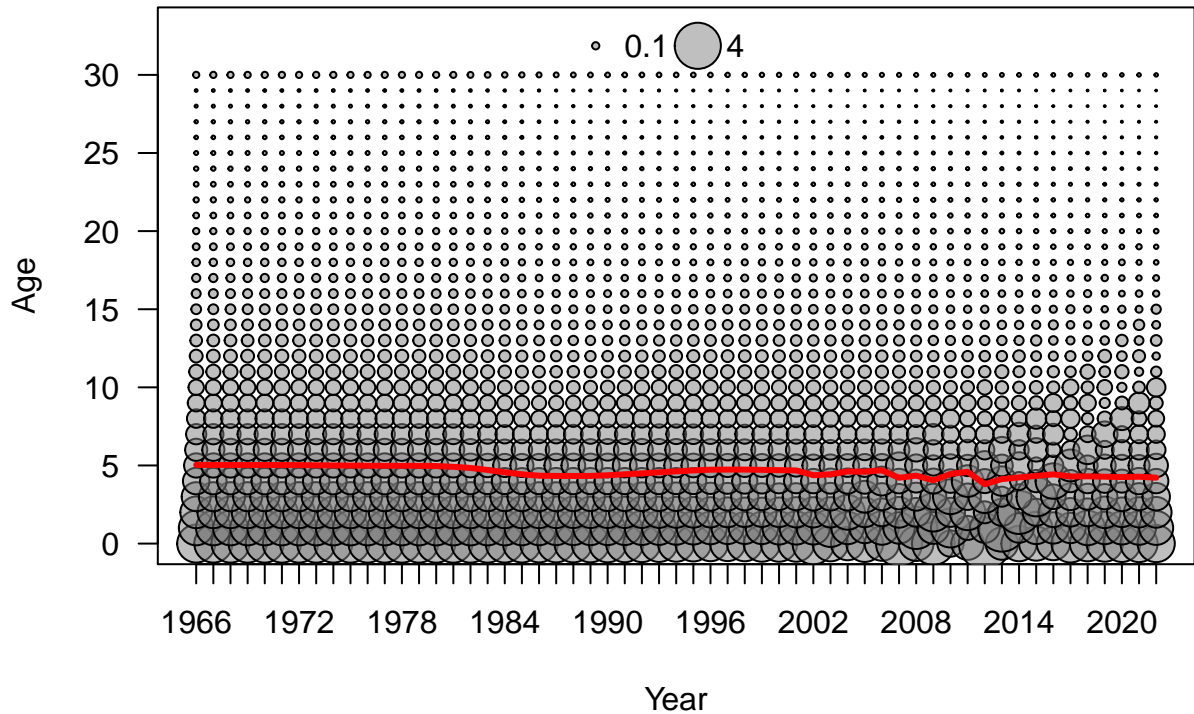


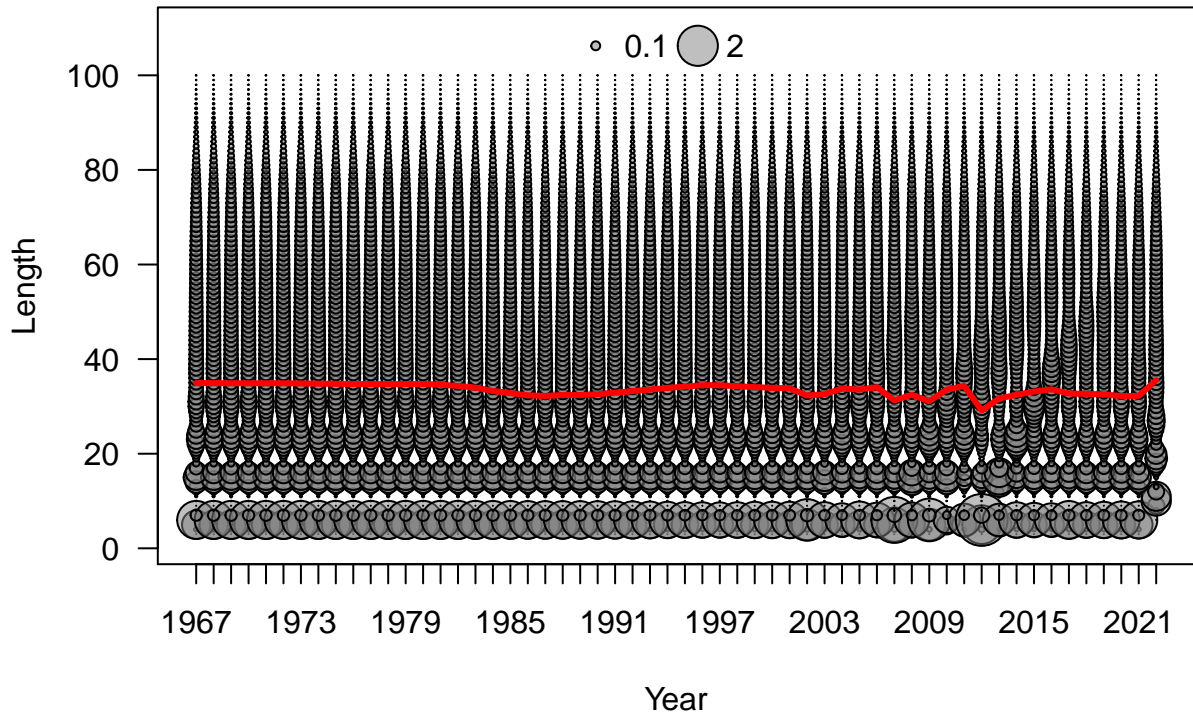


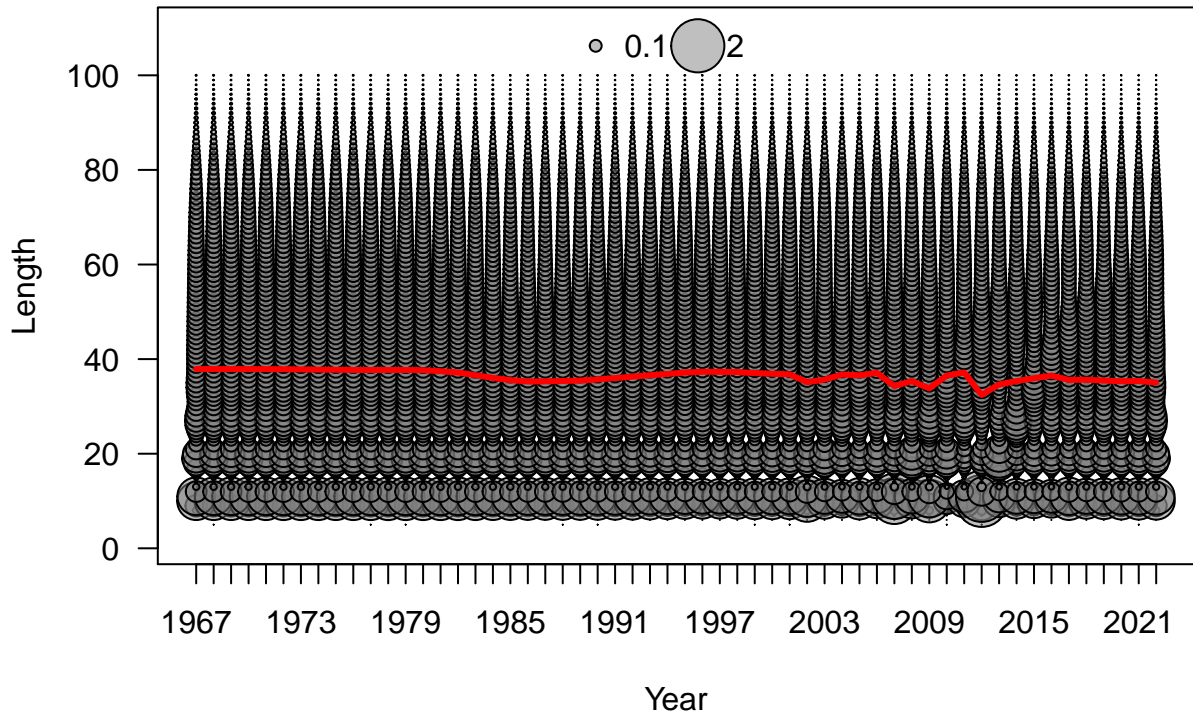


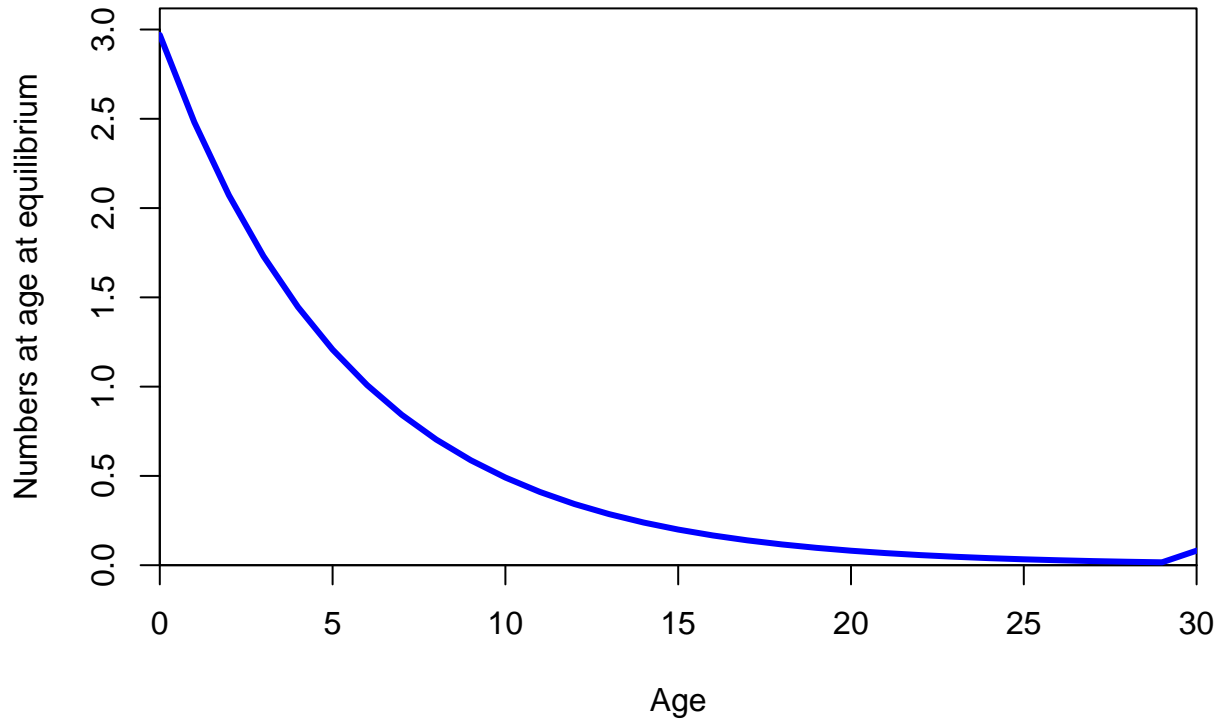






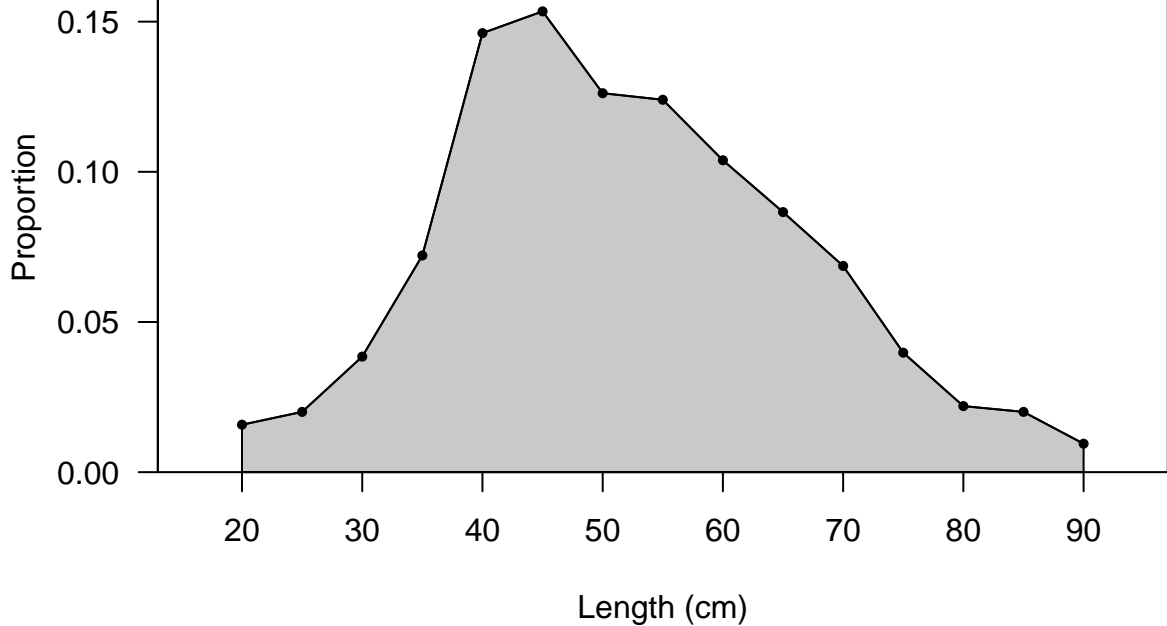






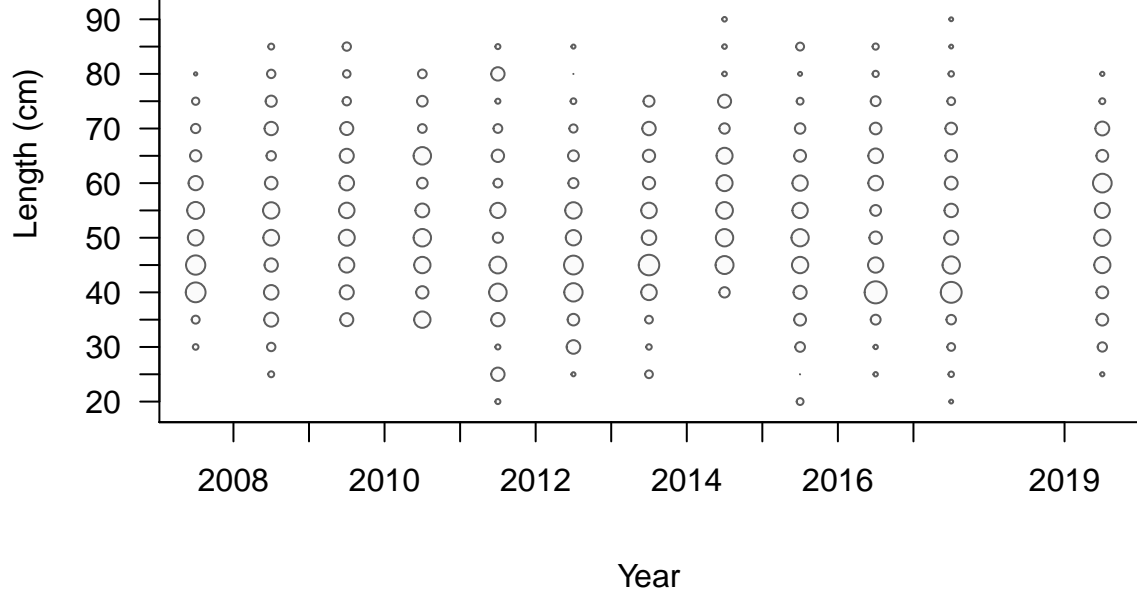
FISHERY

Sum of N adj.=975.8

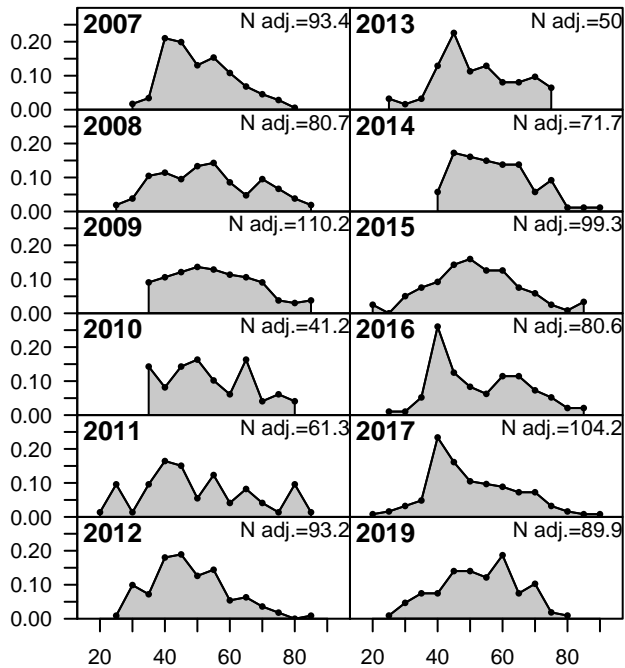


FISHERY

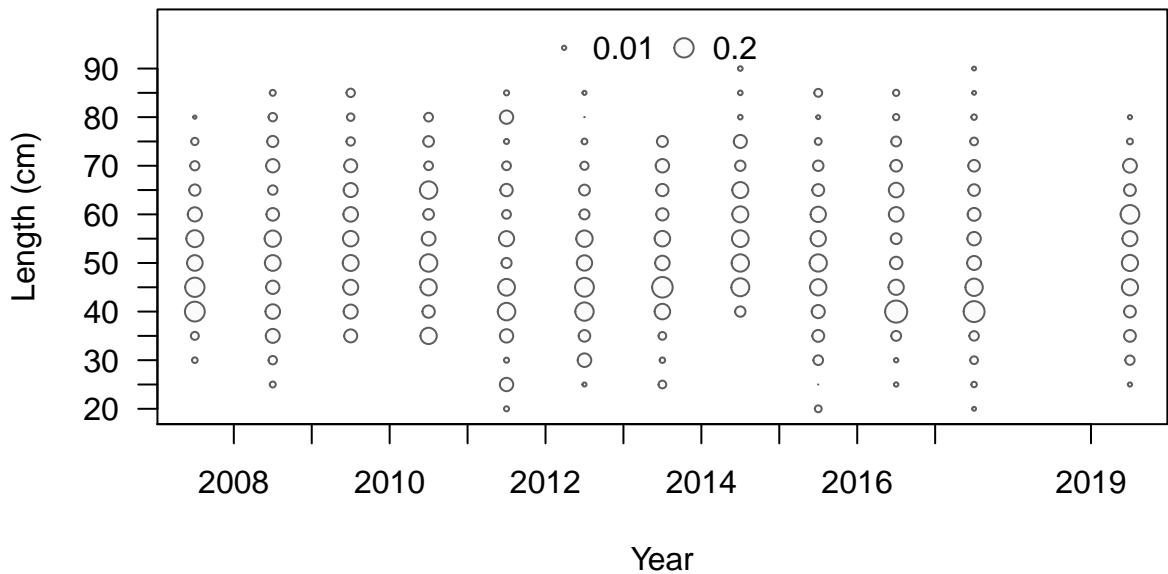
◦ 0.01 ○ 0.2



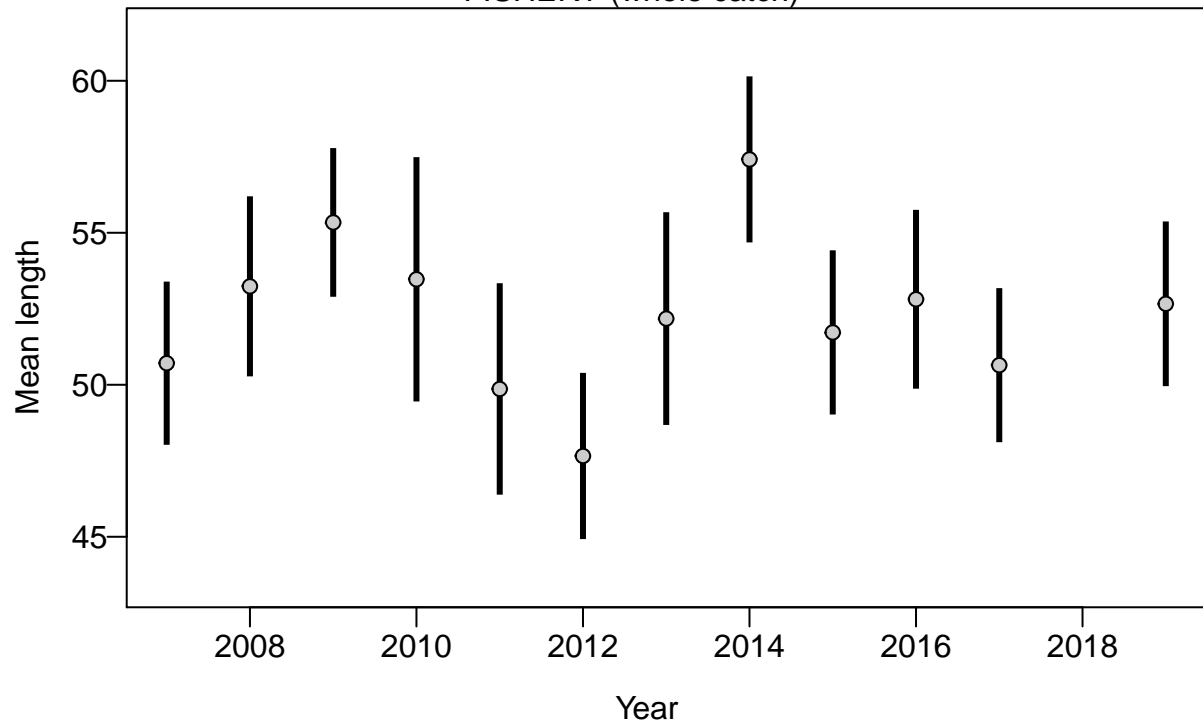
Proportion



Length (cm)

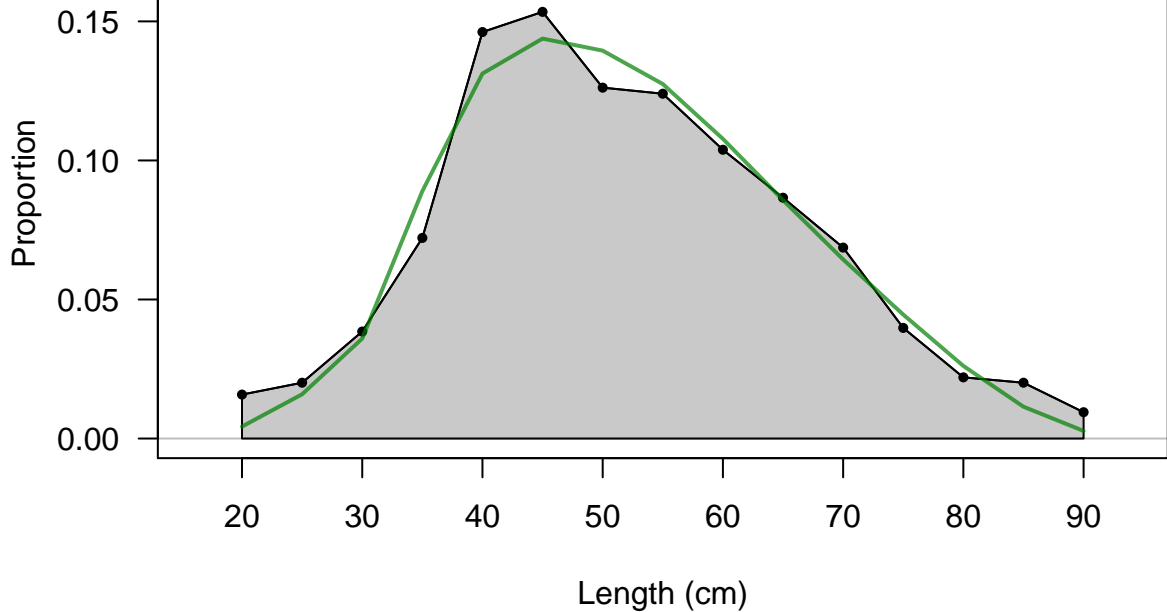


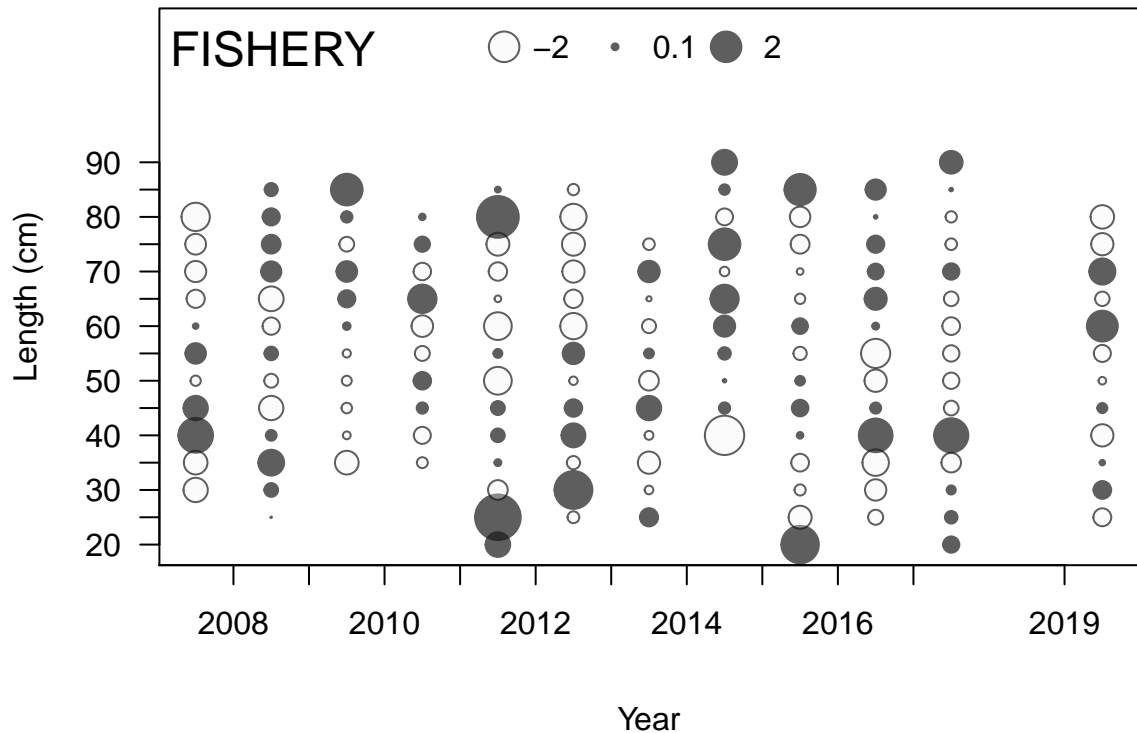
FISHERY (whole catch)



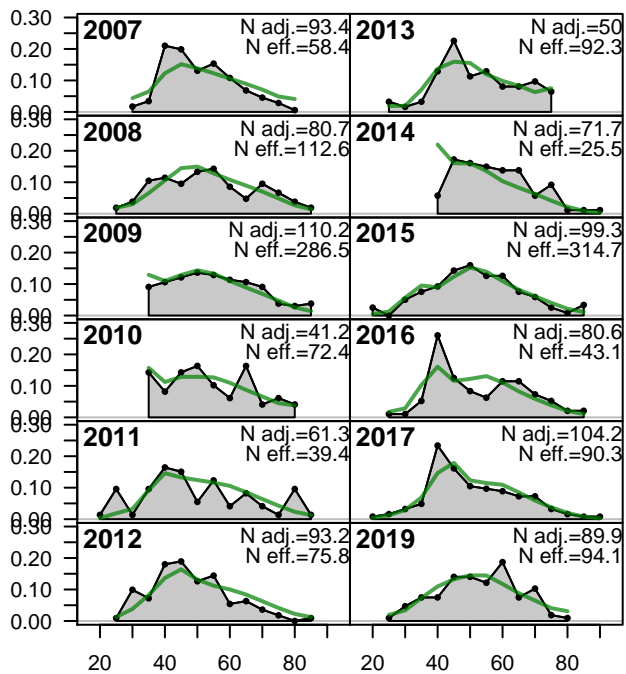
FISHERY

Sum of N adj.=975.8
Sum of N eff.=1305.2

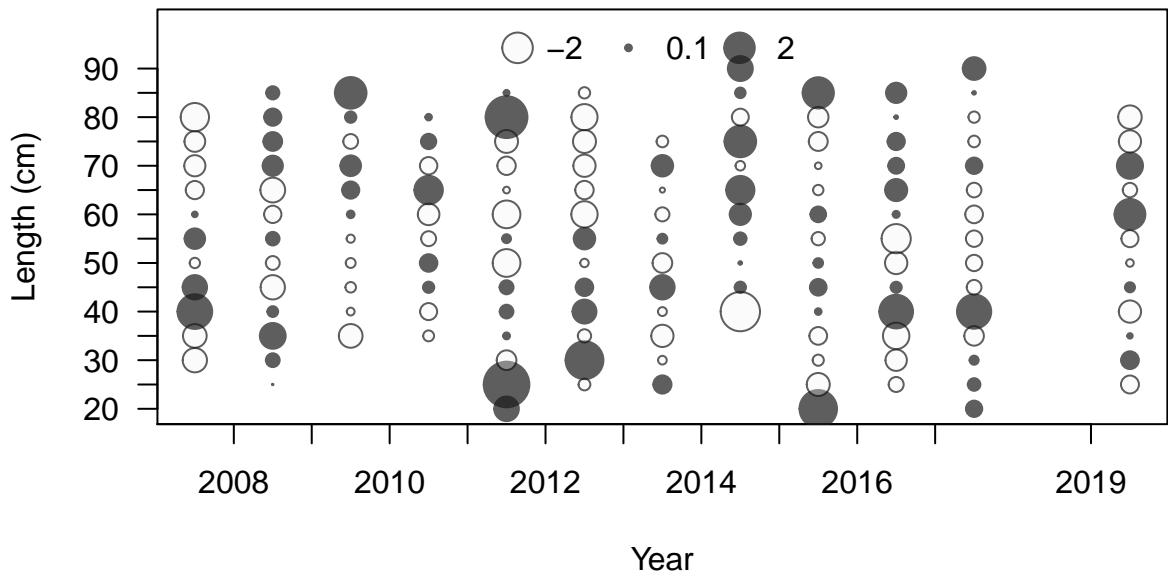




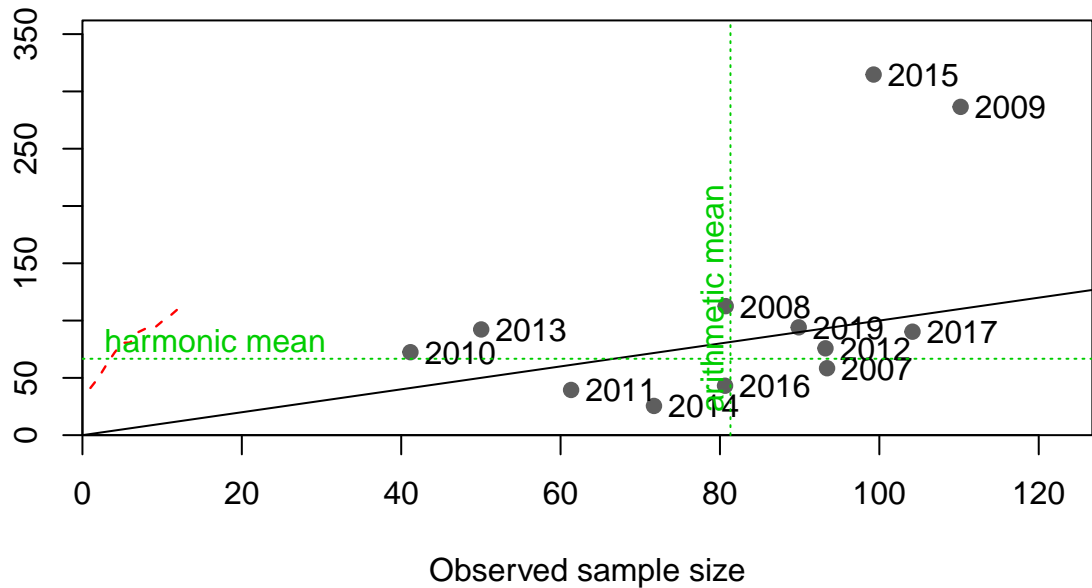
Proportion



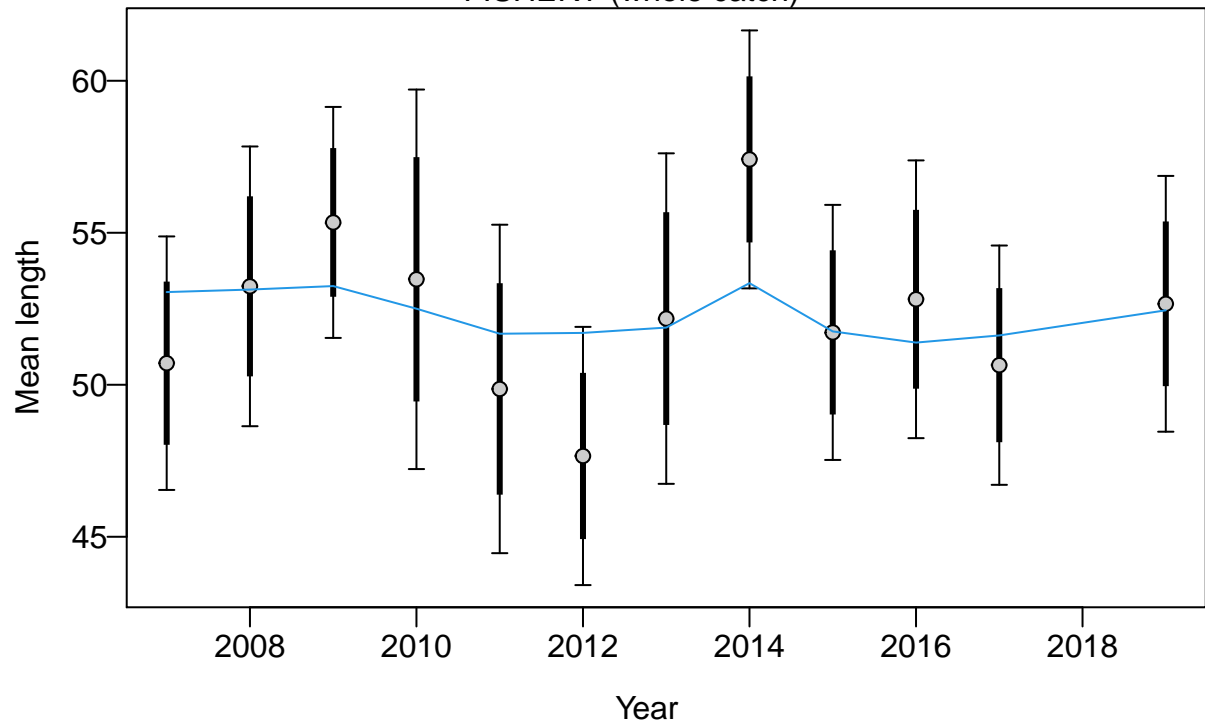
Length (cm)

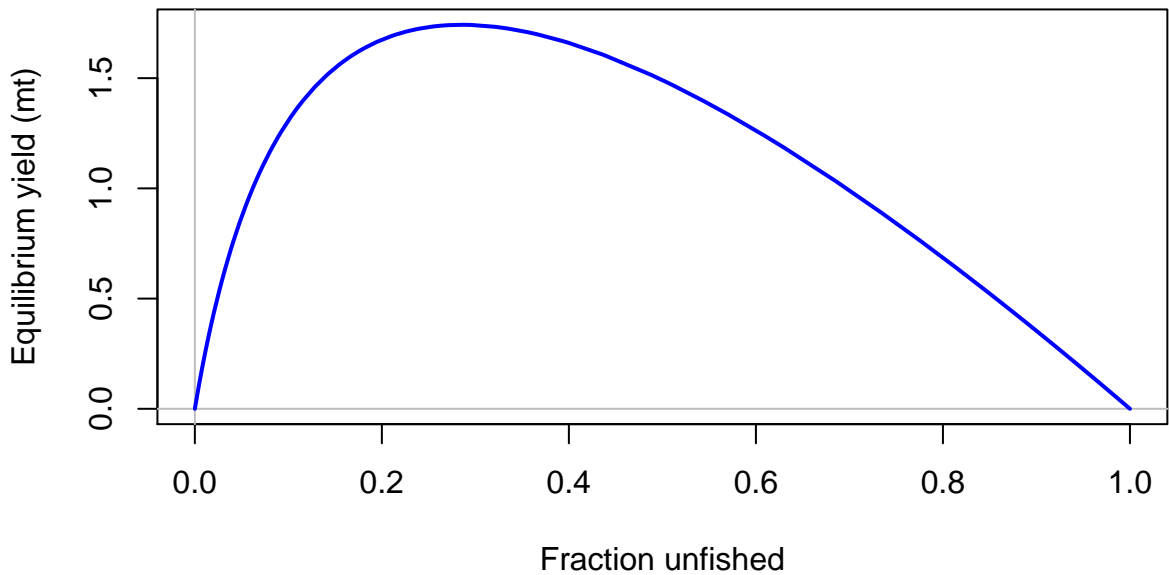


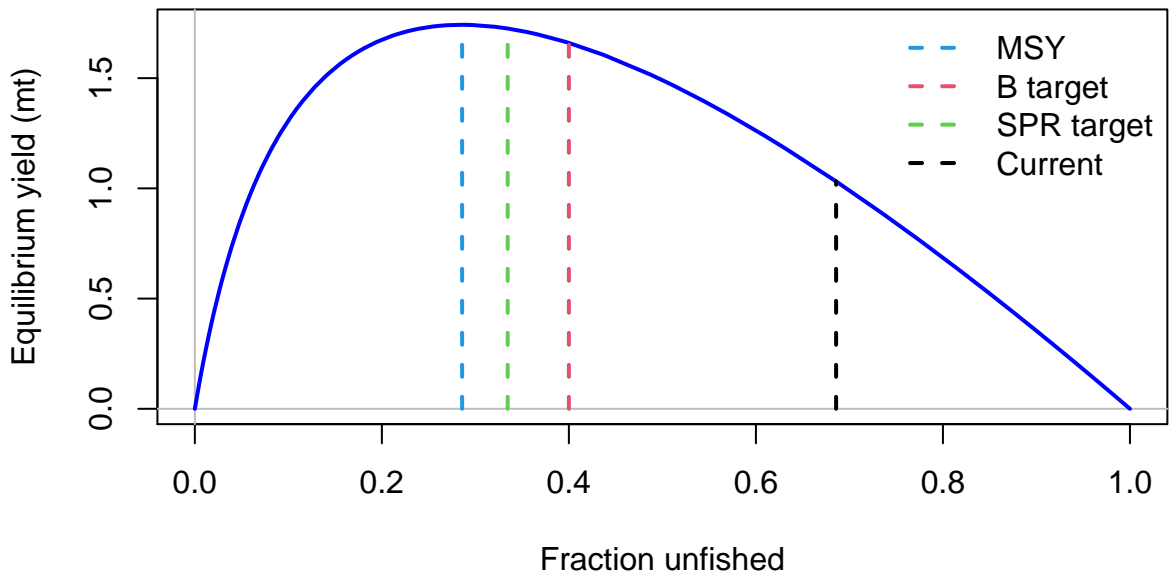
Effective sample size

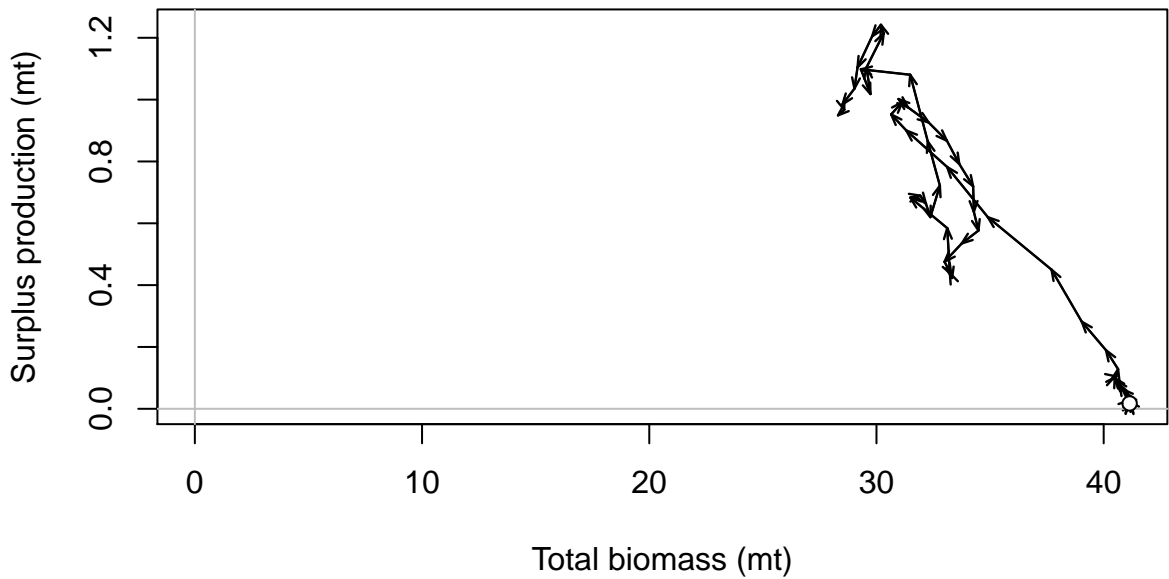


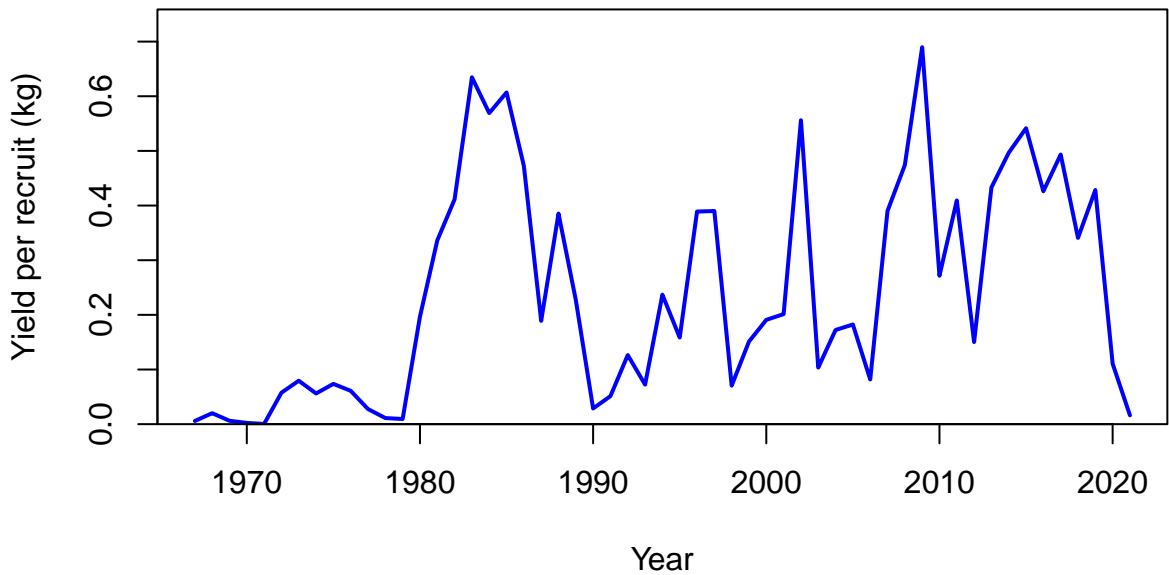
FISHERY (whole catch)

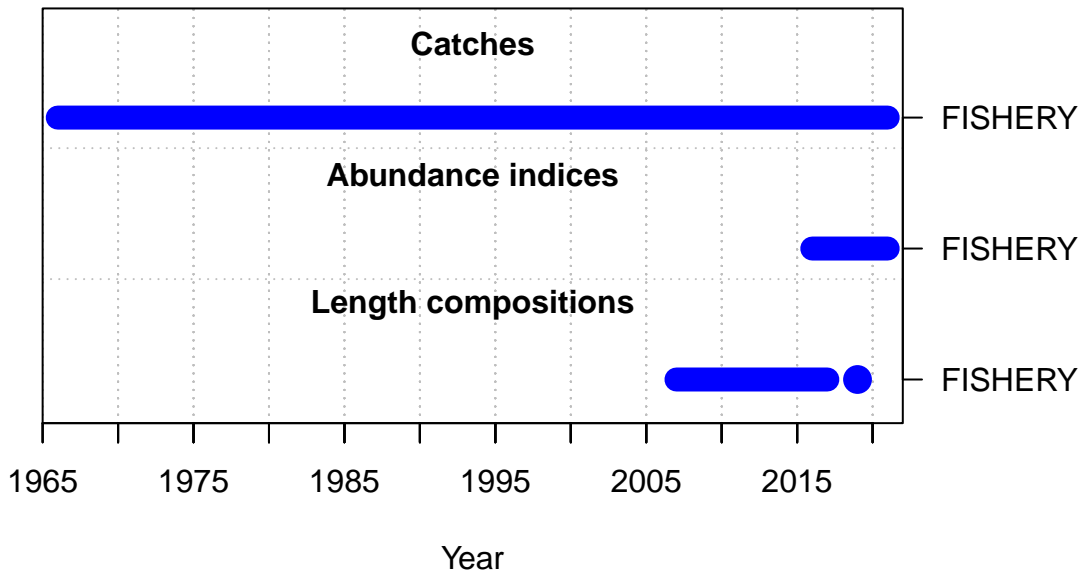


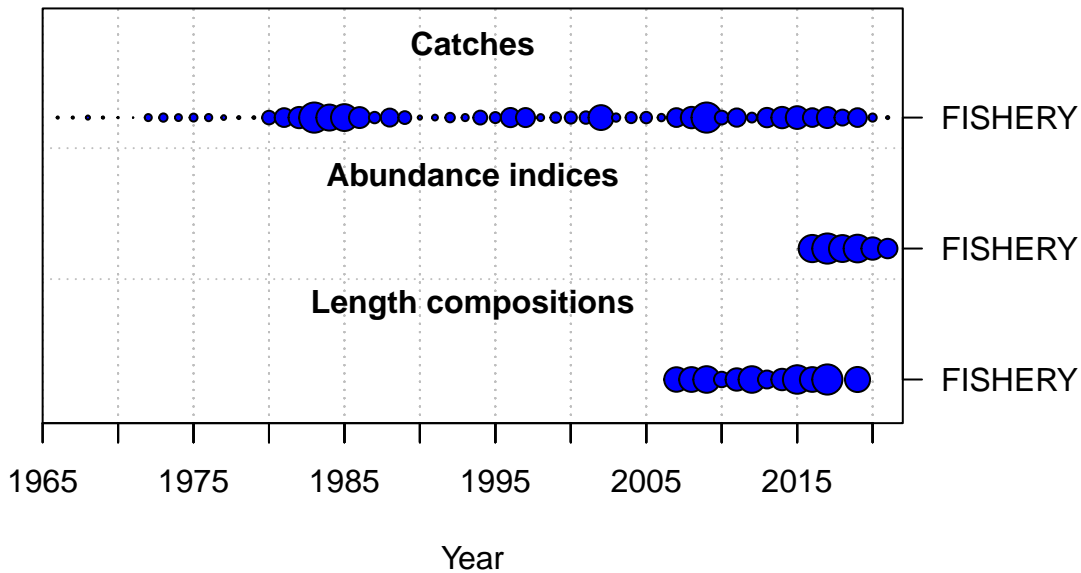




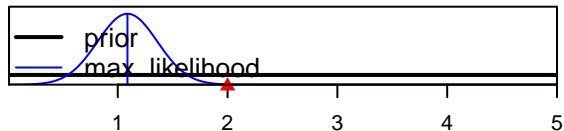




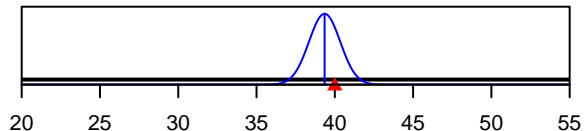




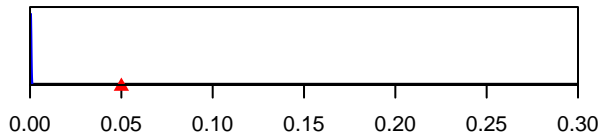
SR_LN(R0)



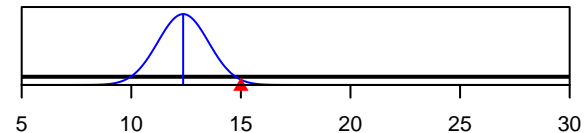
Size_inflection_FISHERY(1)



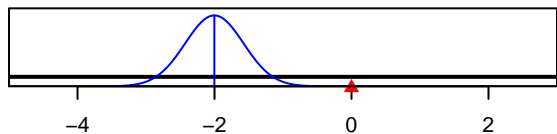
InitF_seas_1flt_1FISHERY



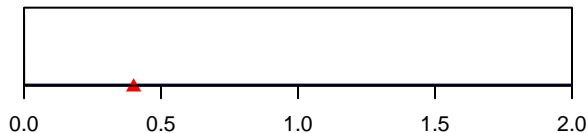
Size_95%width_FISHERY(1)



LnQ_base_FISHERY(1)



Q_extraSD_FISHERY(1)



Parameter value