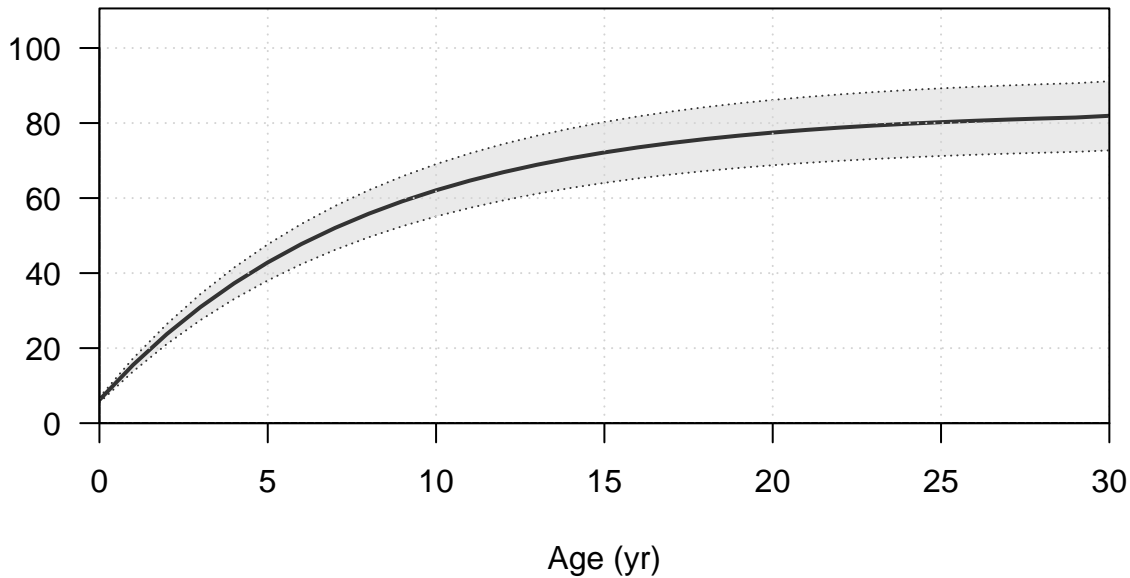
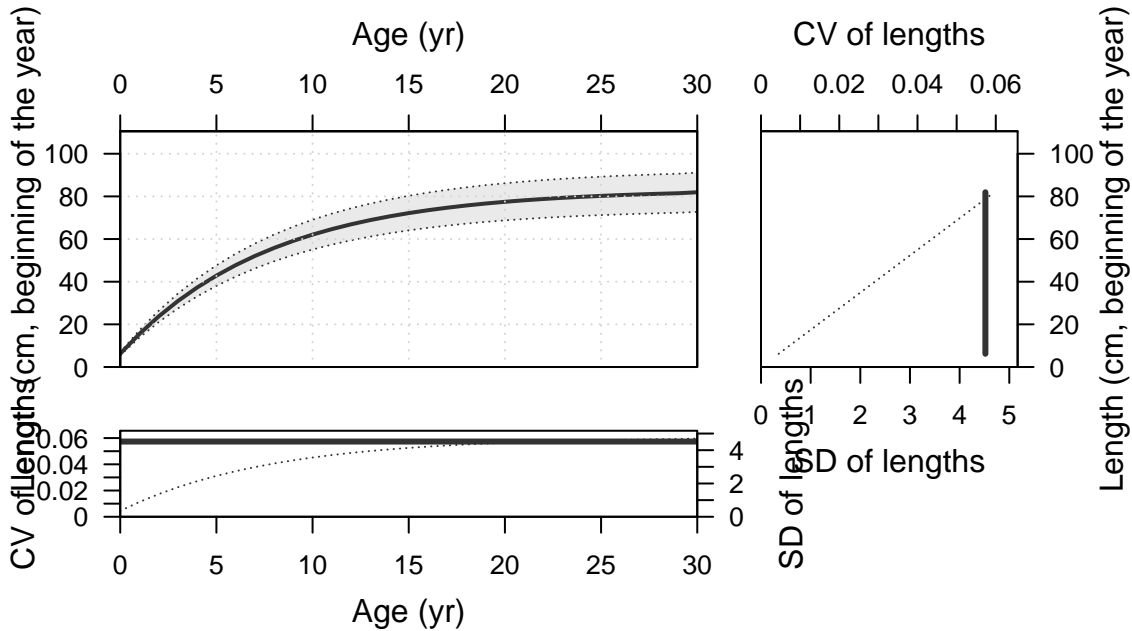
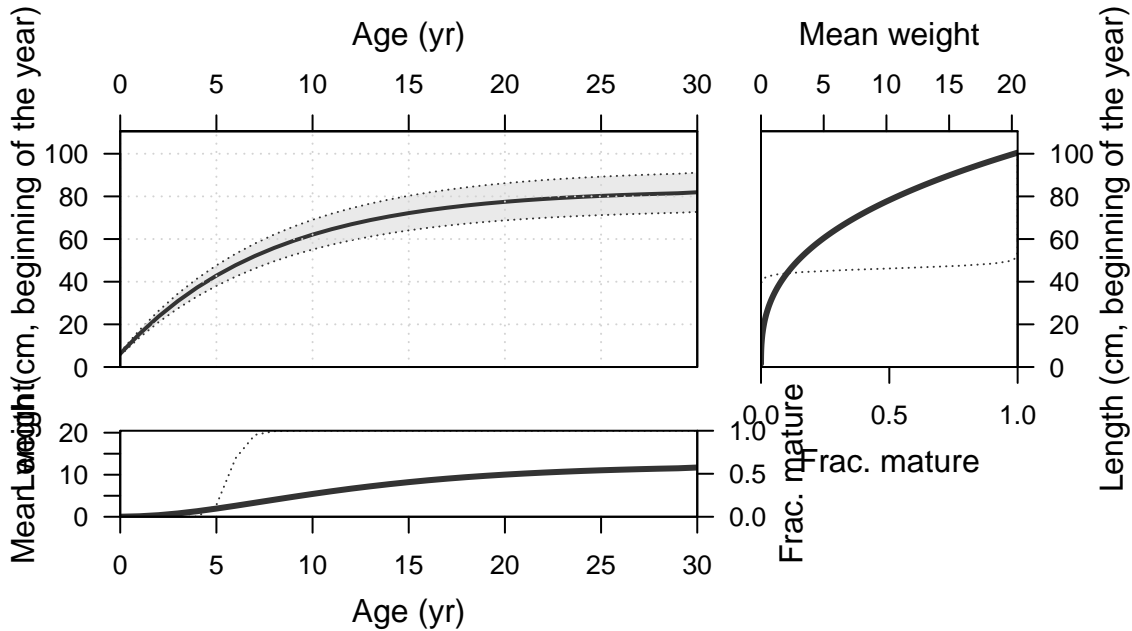


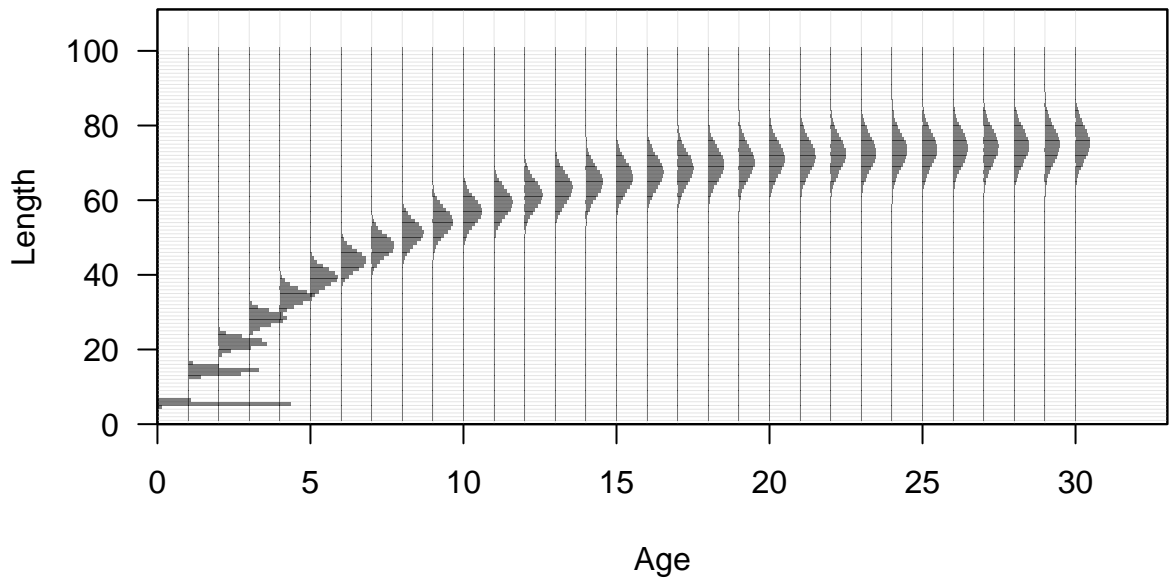
Plots created using the 'r4ss' package in R
Stock Synthesis version: 3.30.19.0
StartTime: Tue Jan 24 11:53:07 2023
Data_File: data.ss
Control_File: control.ss

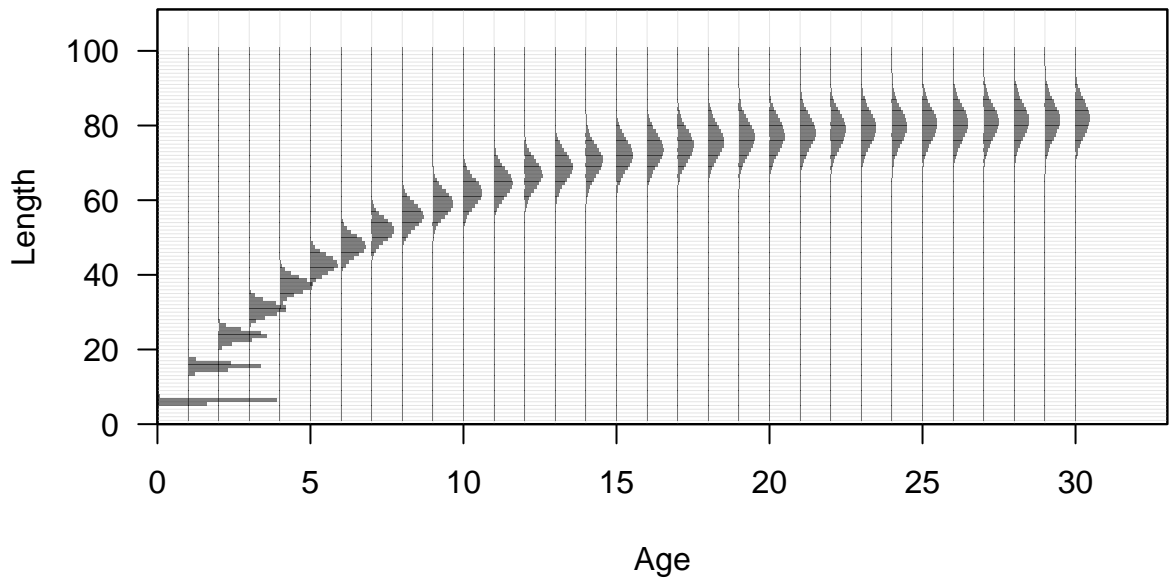
Length (cm, beginning of the year)

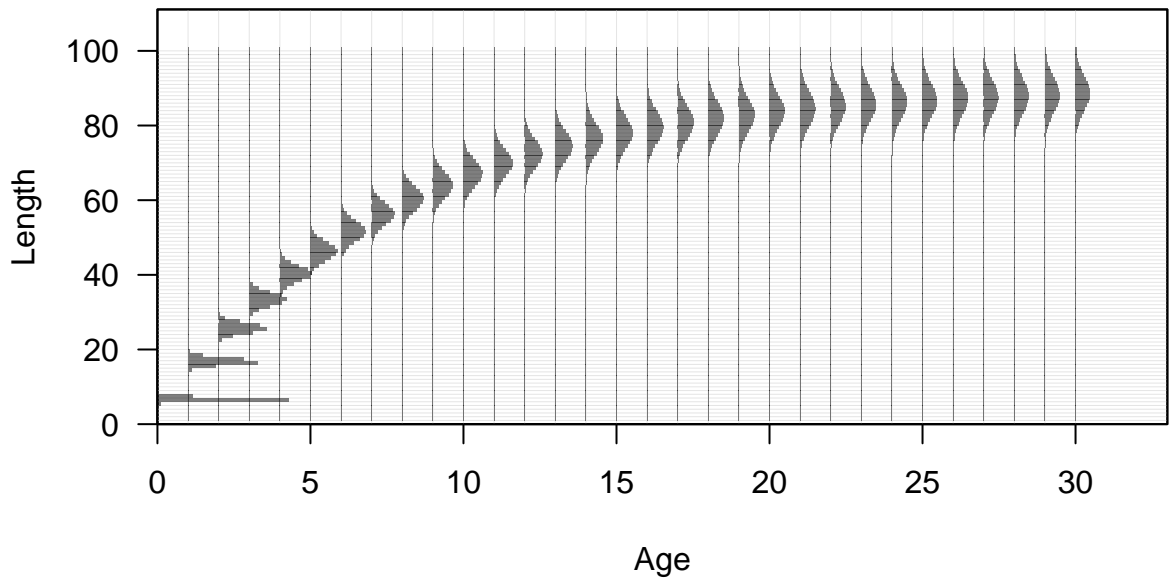


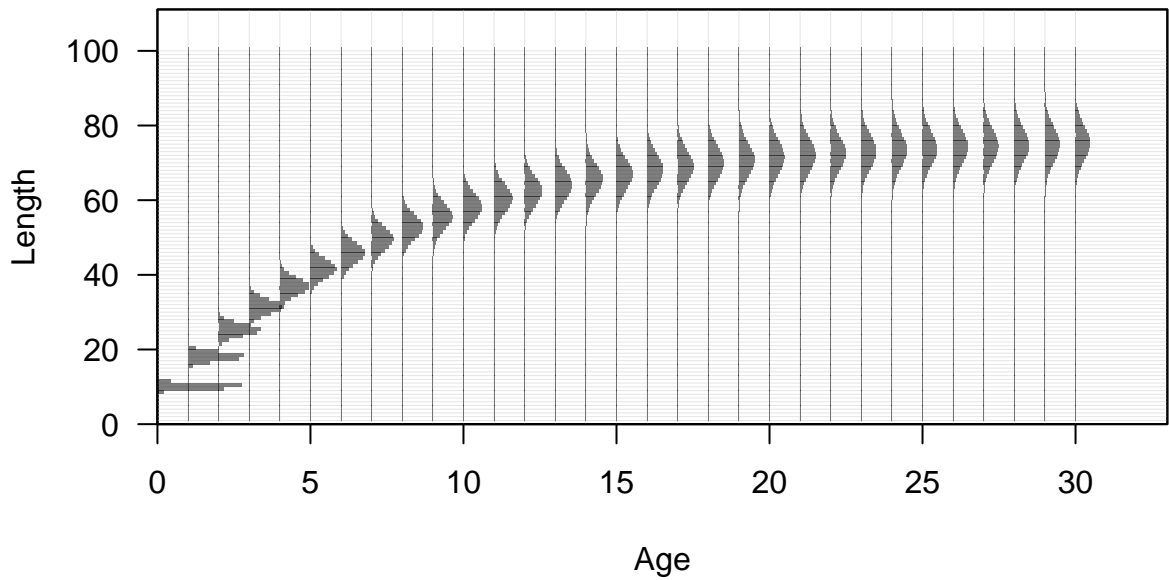


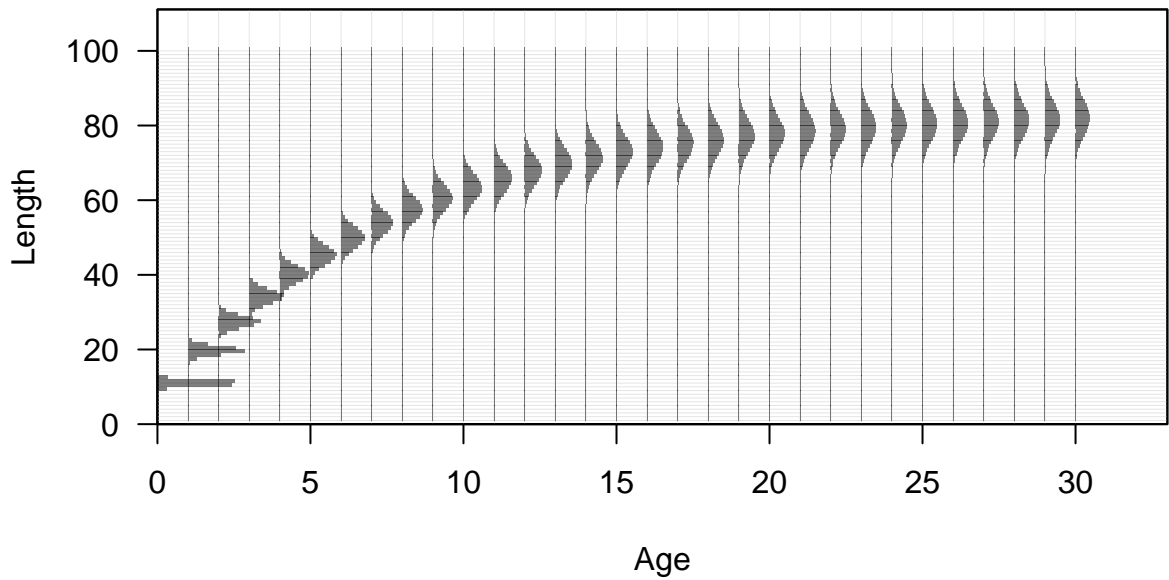


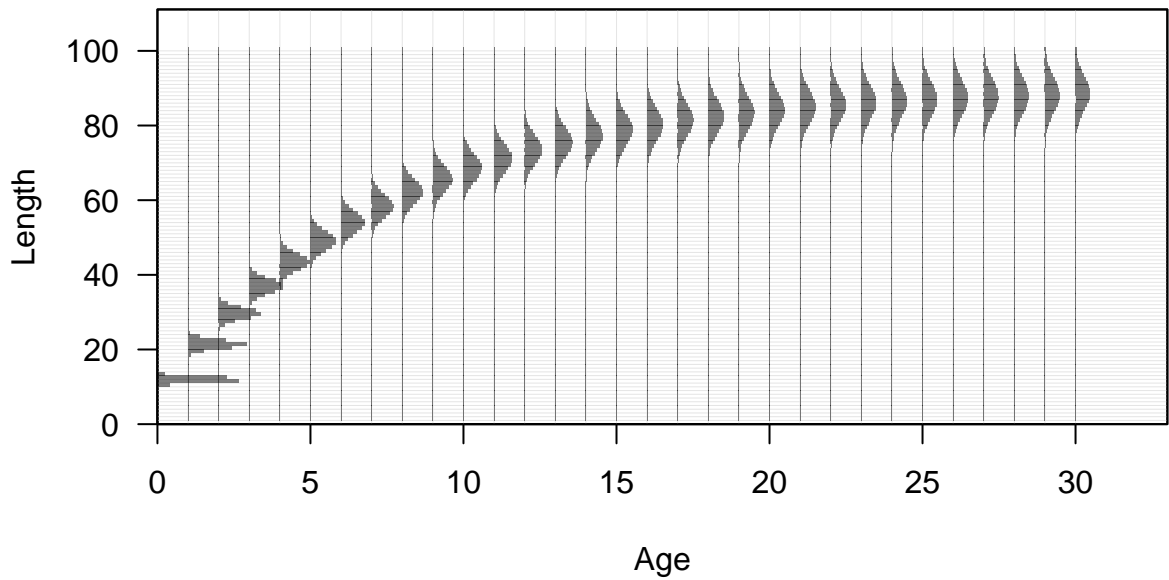




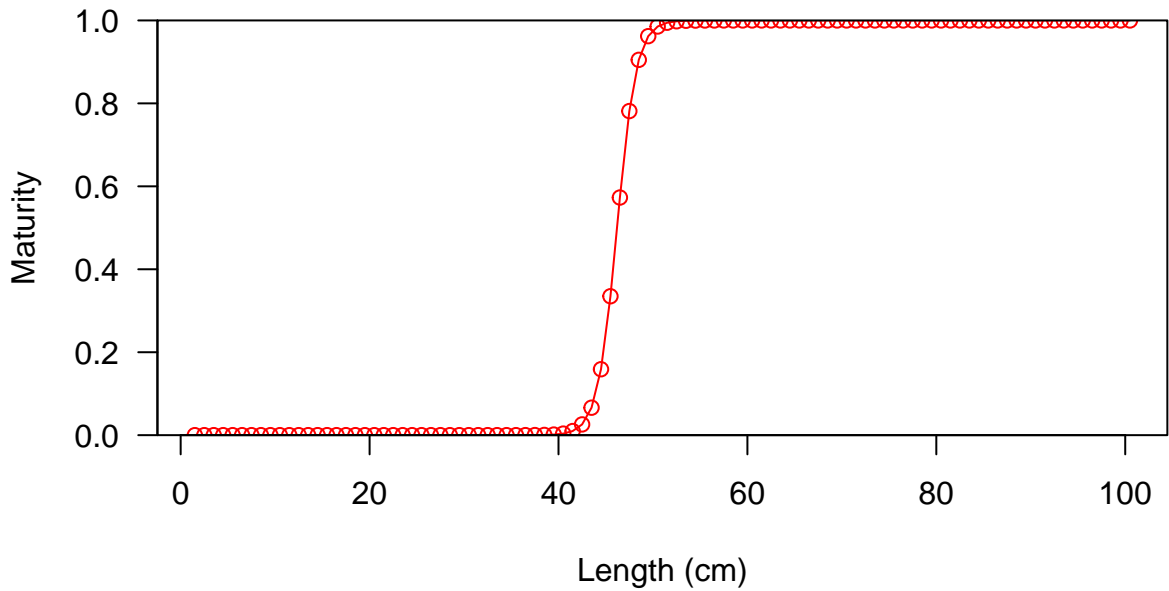


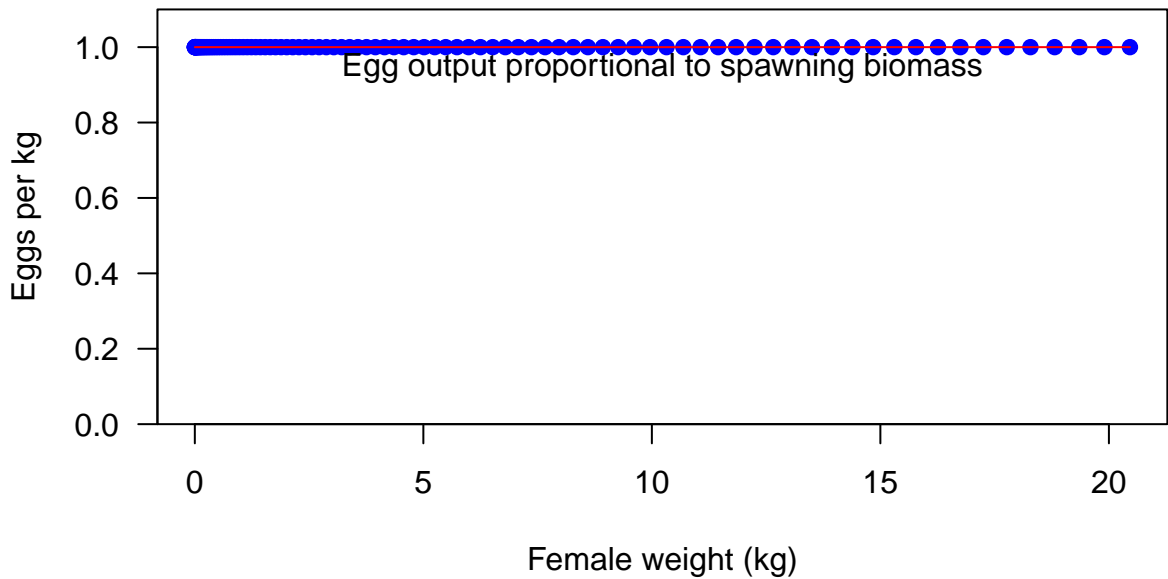




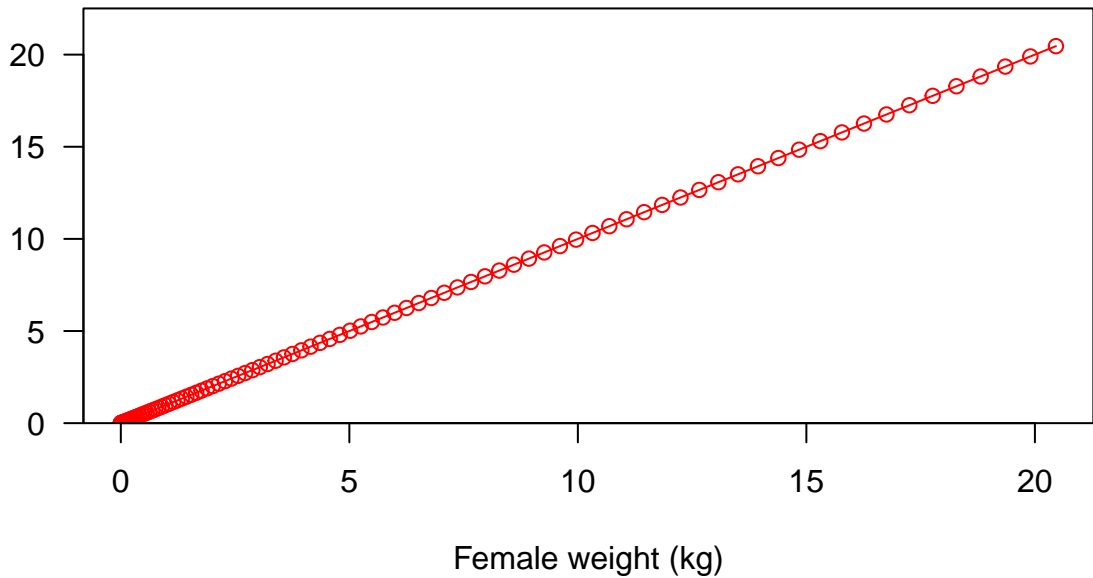








Fecundity



Fecundity

20

15

10

5

0

0

20

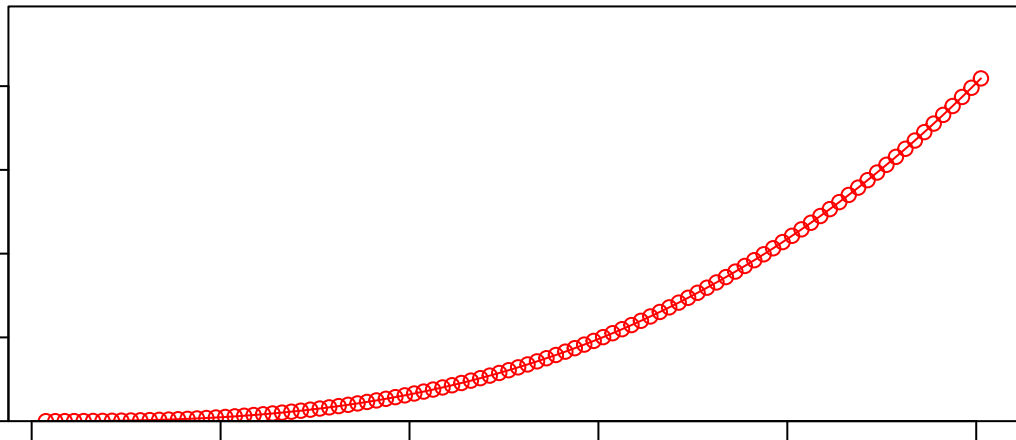
40

60

80

100

Female length (cm)



Spawning output

20
15
10
5
0

0

20

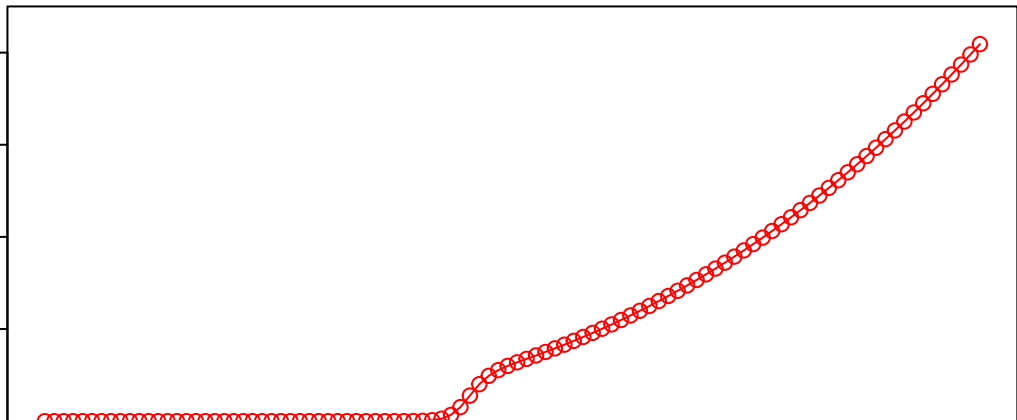
40

60

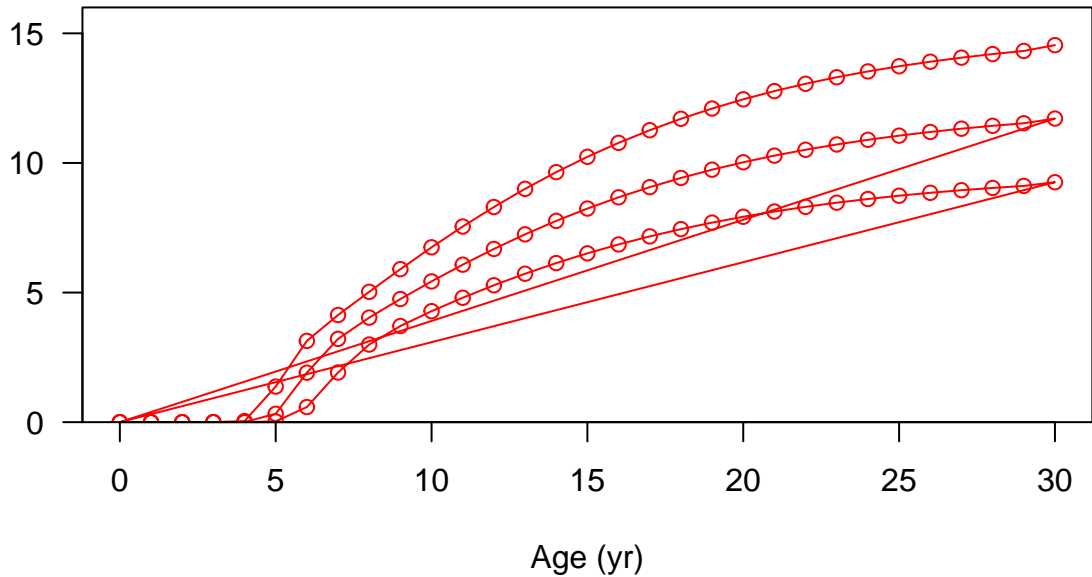
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100

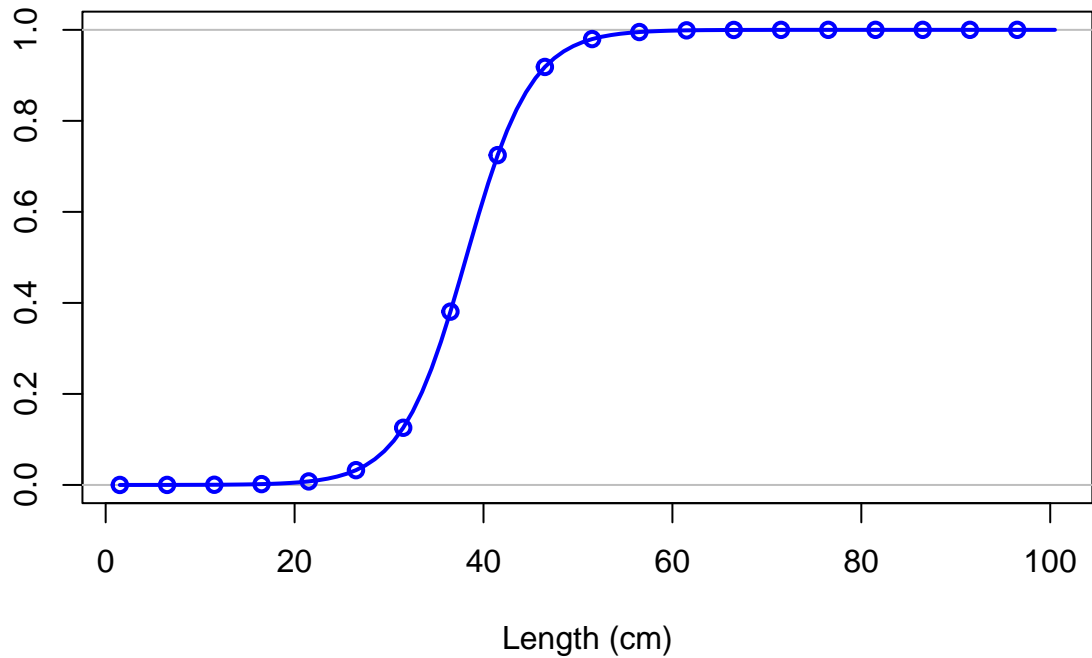
Length (cm)



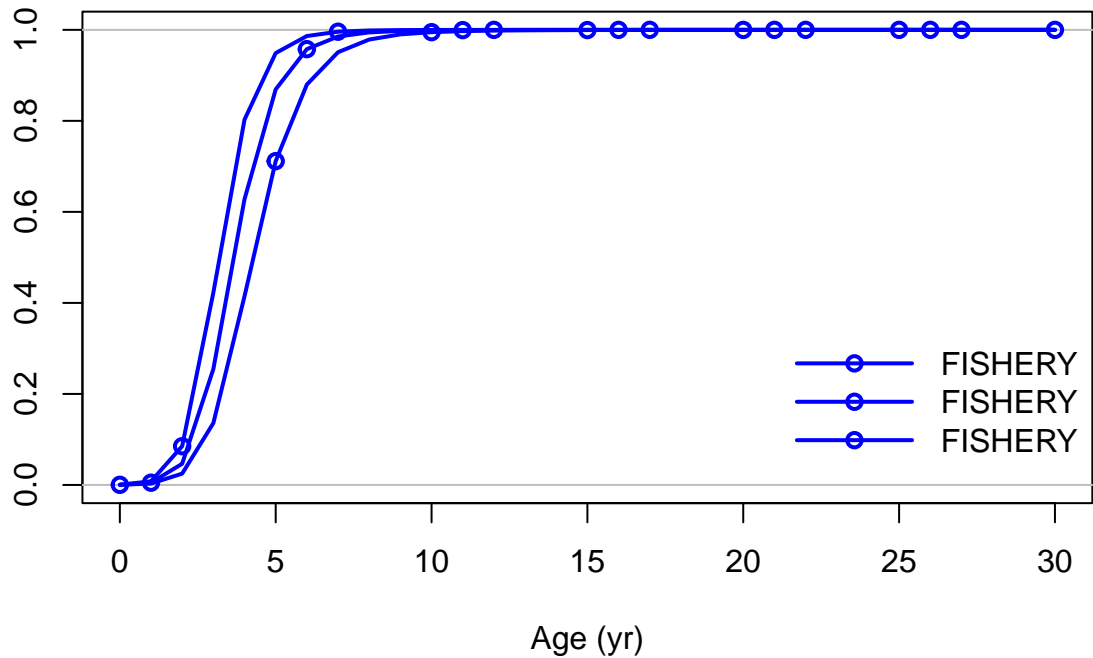
Spawning output



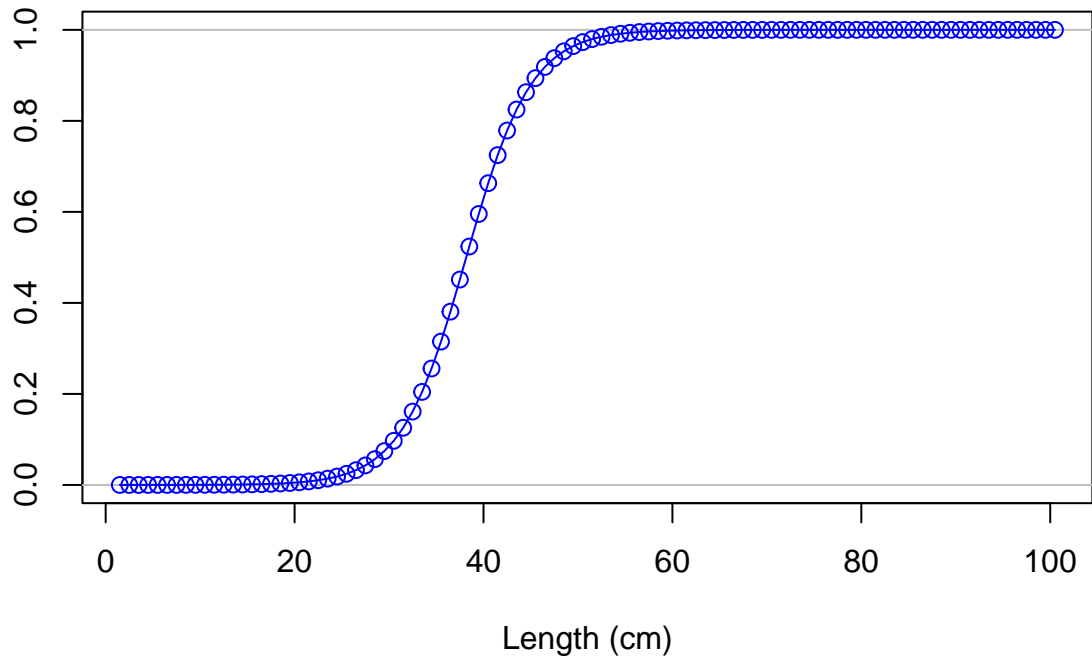
Selectivity

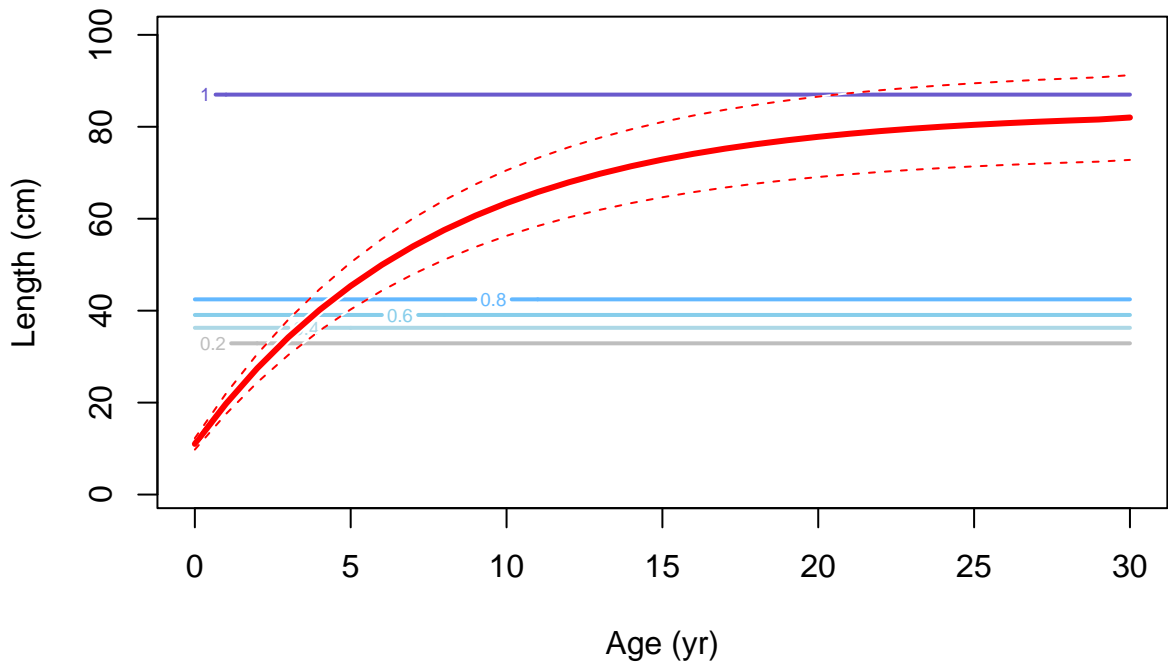


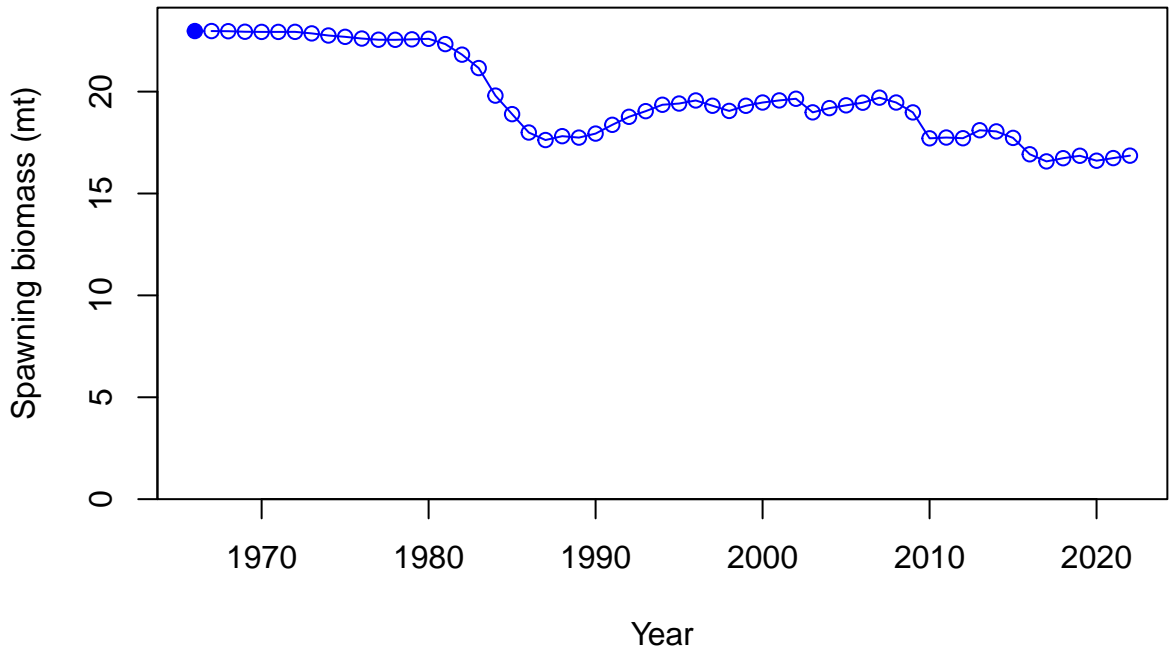
Selectivity



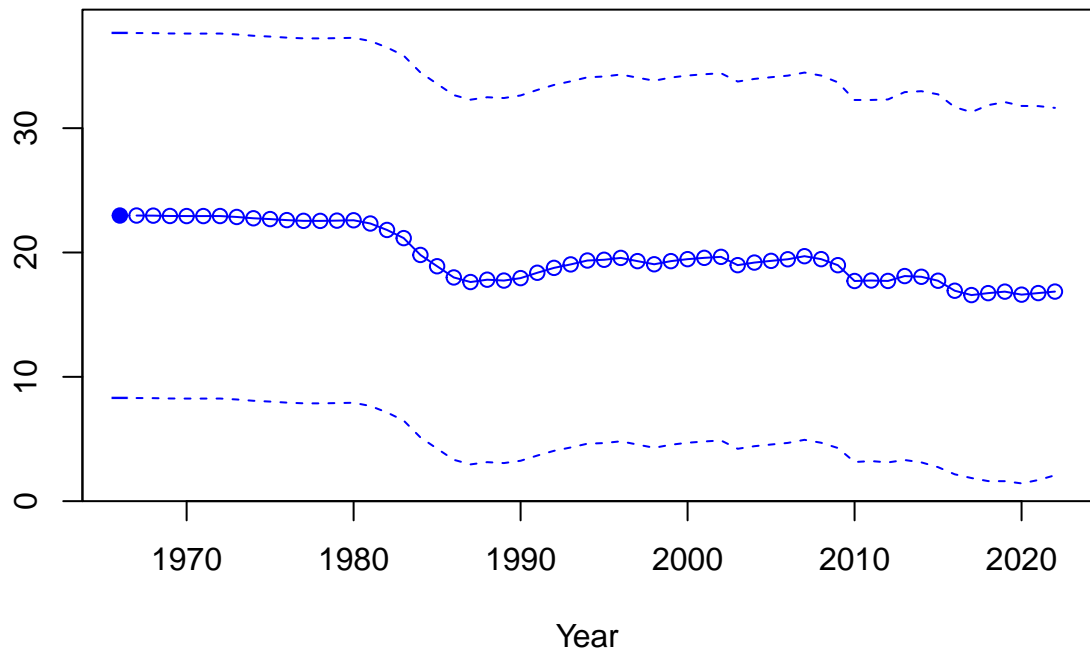
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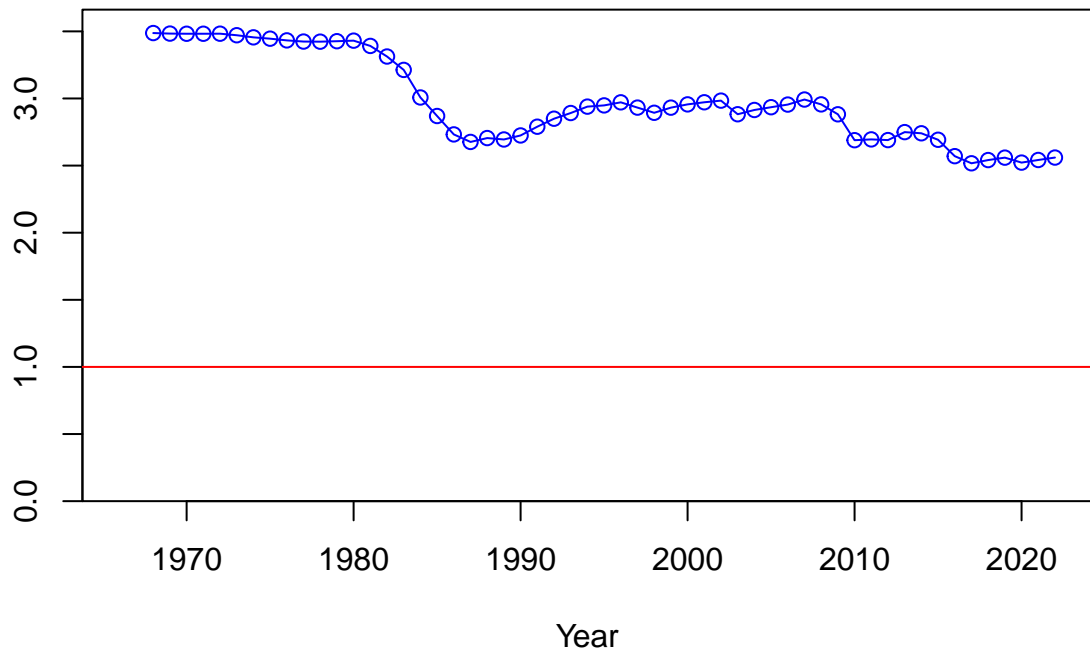




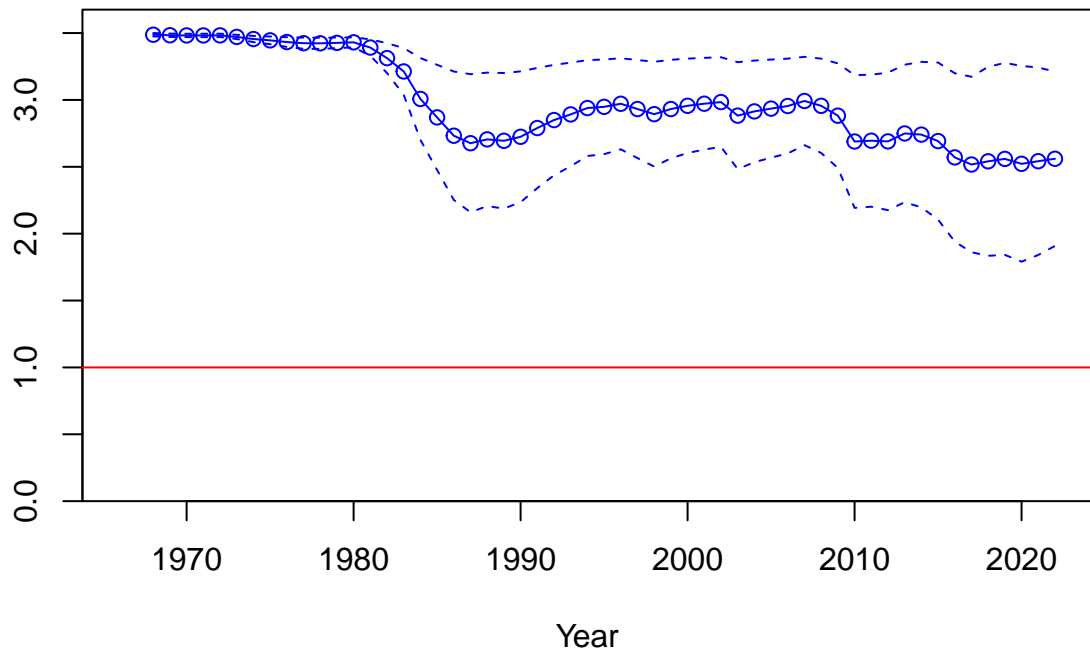
Spawning biomass (mt)

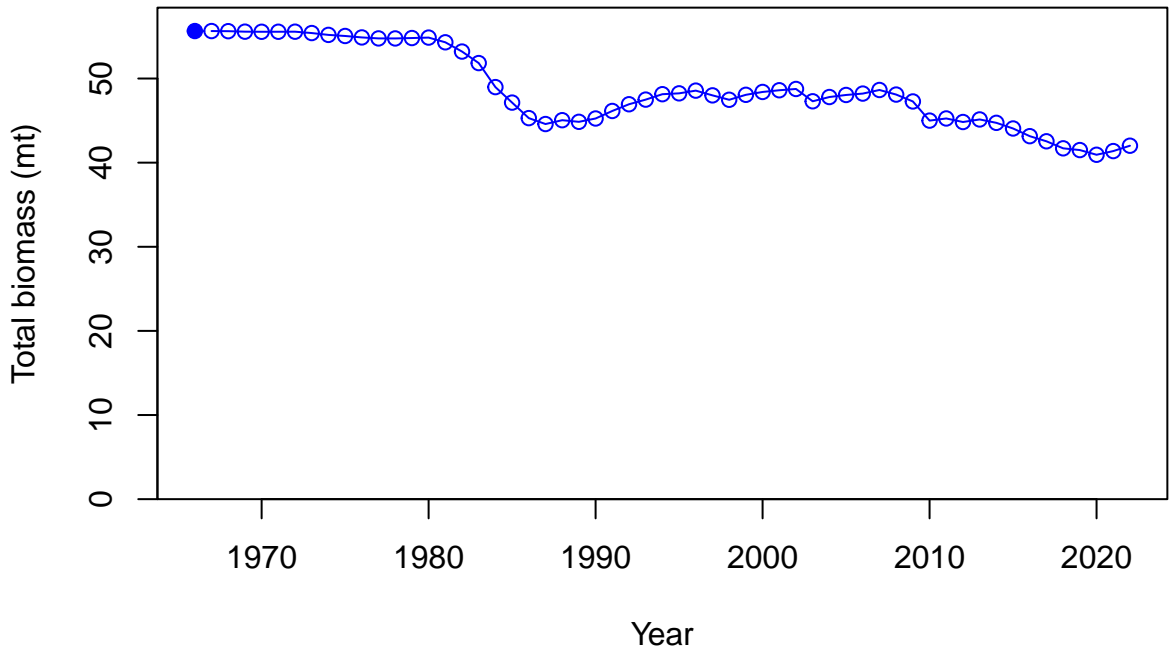


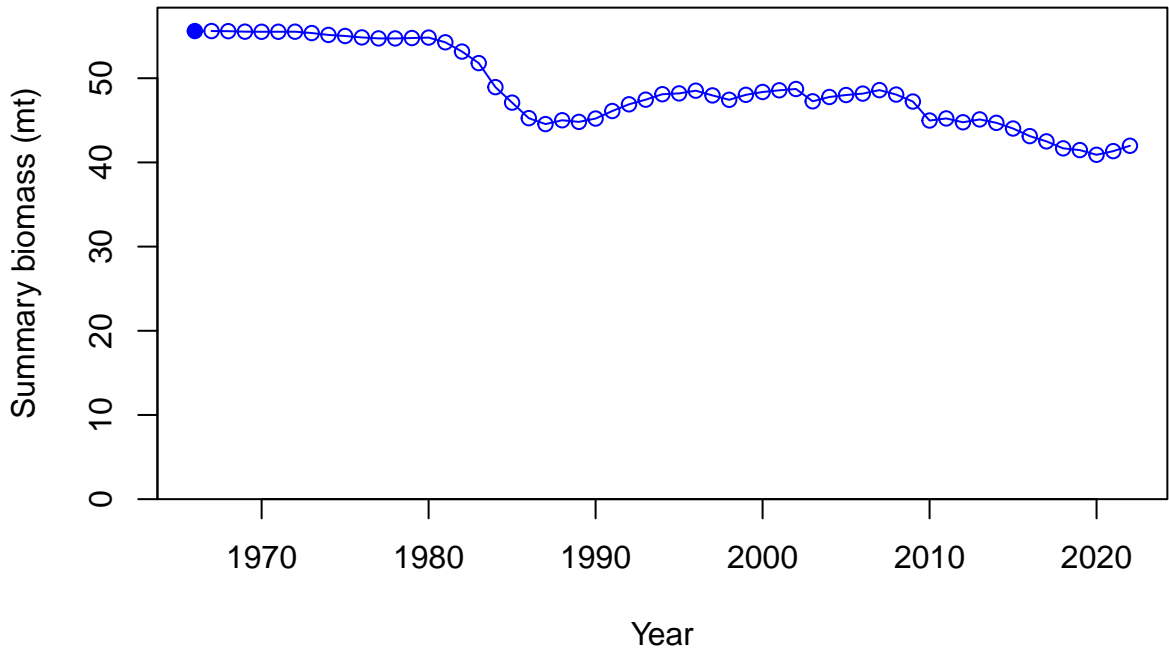
Relative spawning biomass: B/B_{MSY}

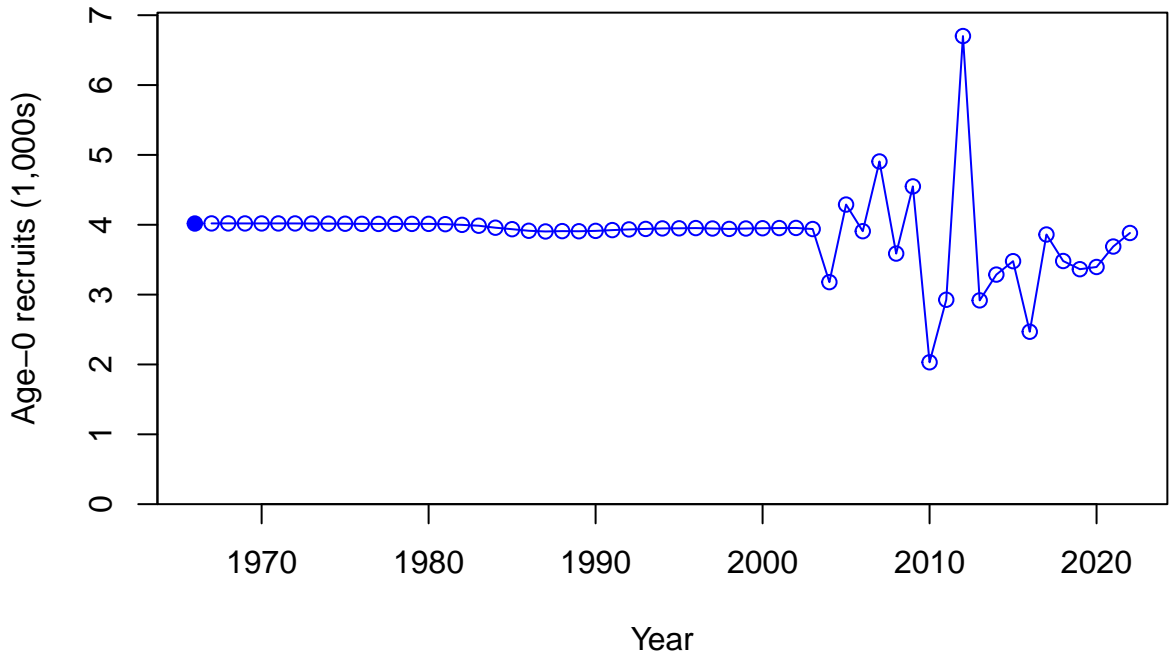


Relative spawning biomass: B/B_{MSY}

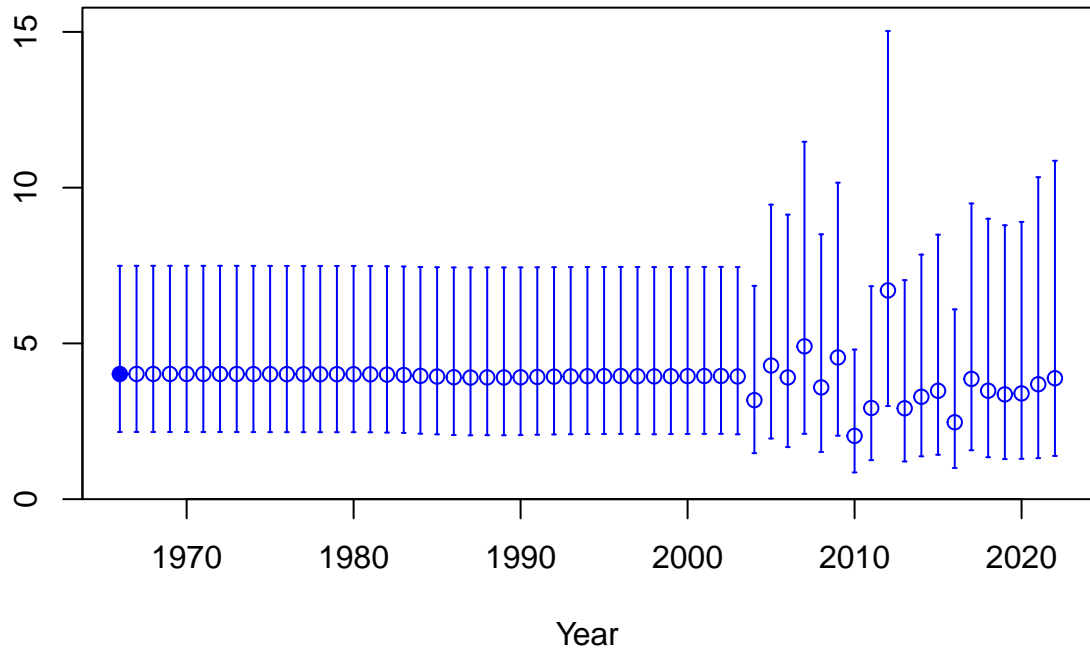




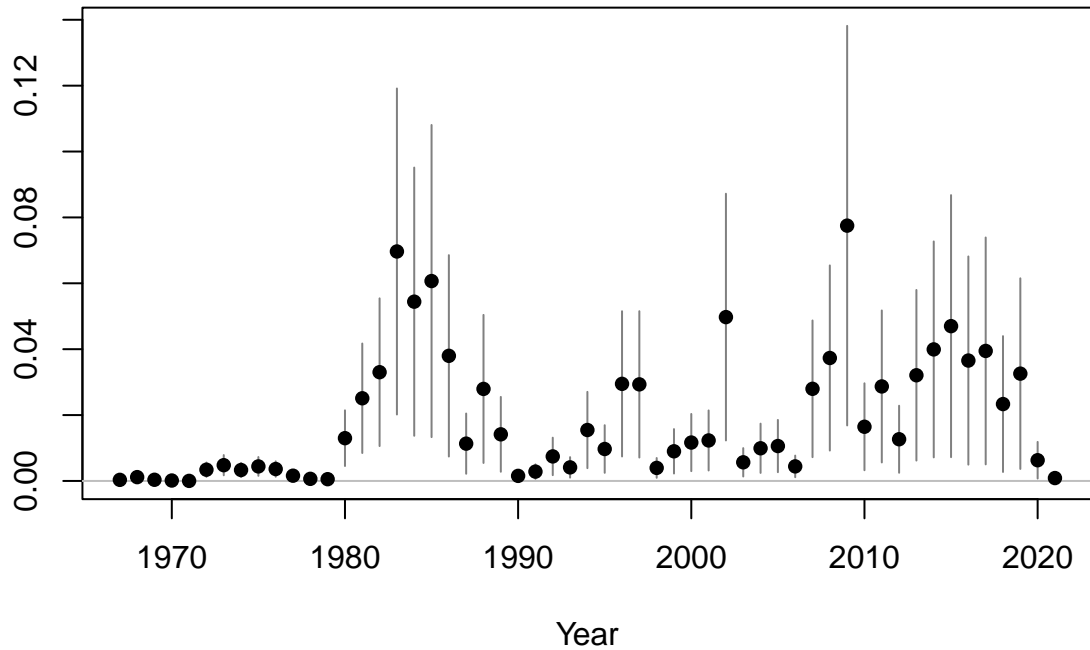


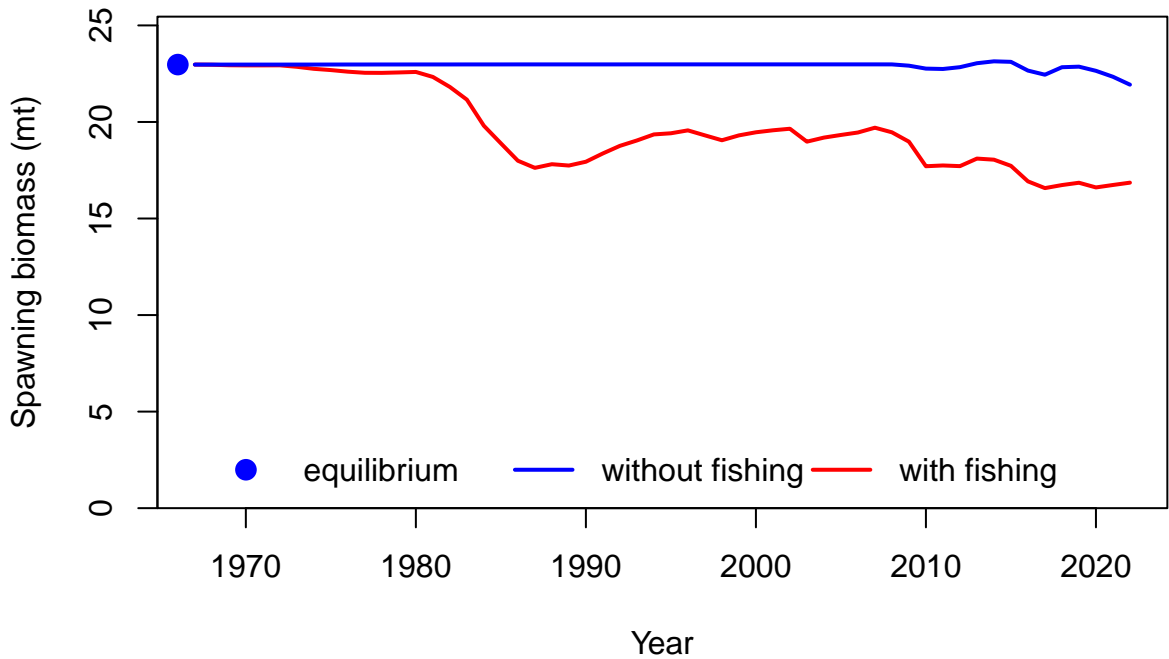


Age-0 recruits (1,000s)

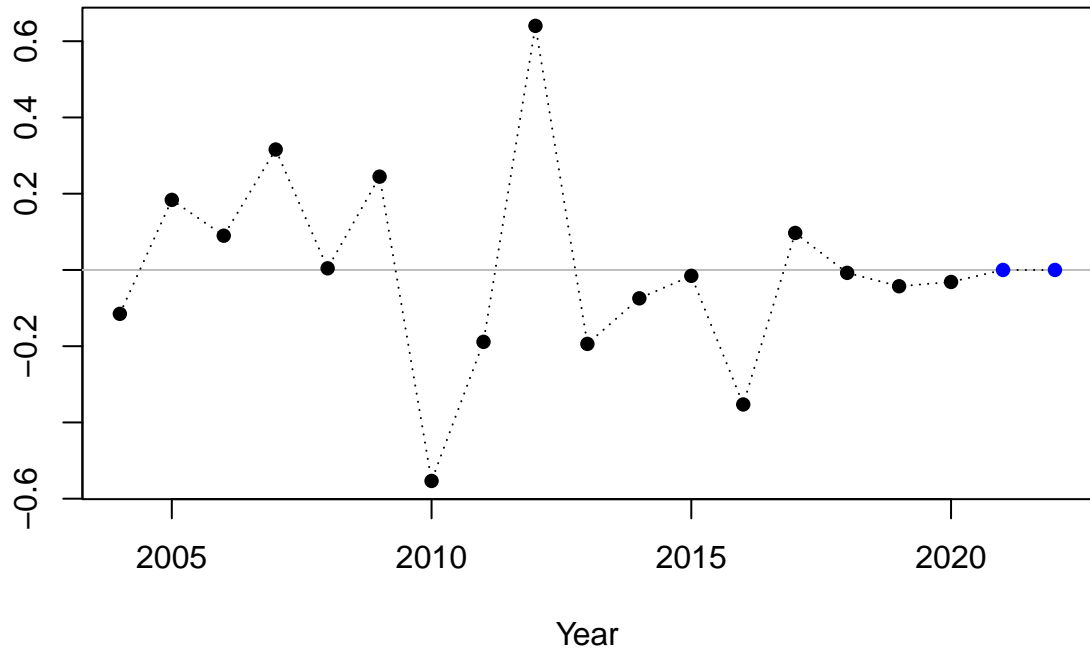


Summary Fishing Mortality

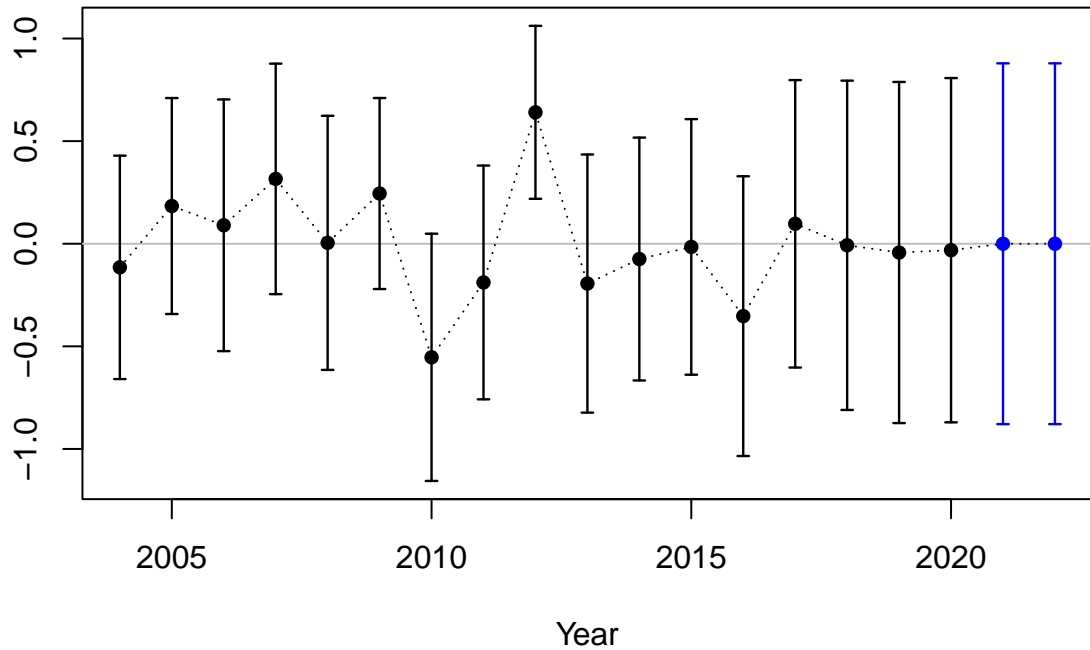




Log recruitment deviation

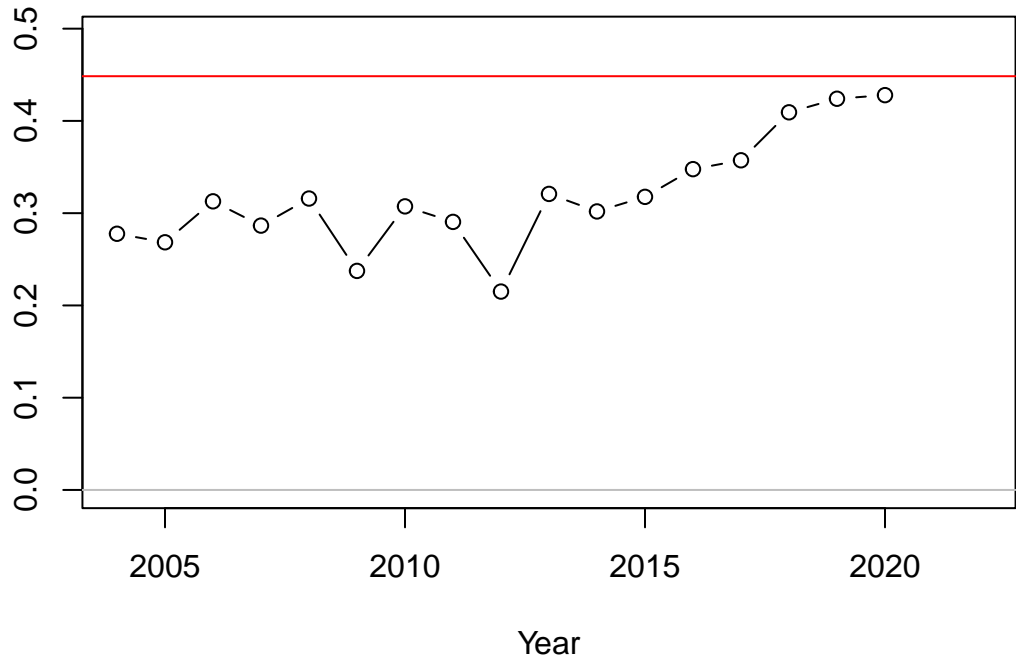


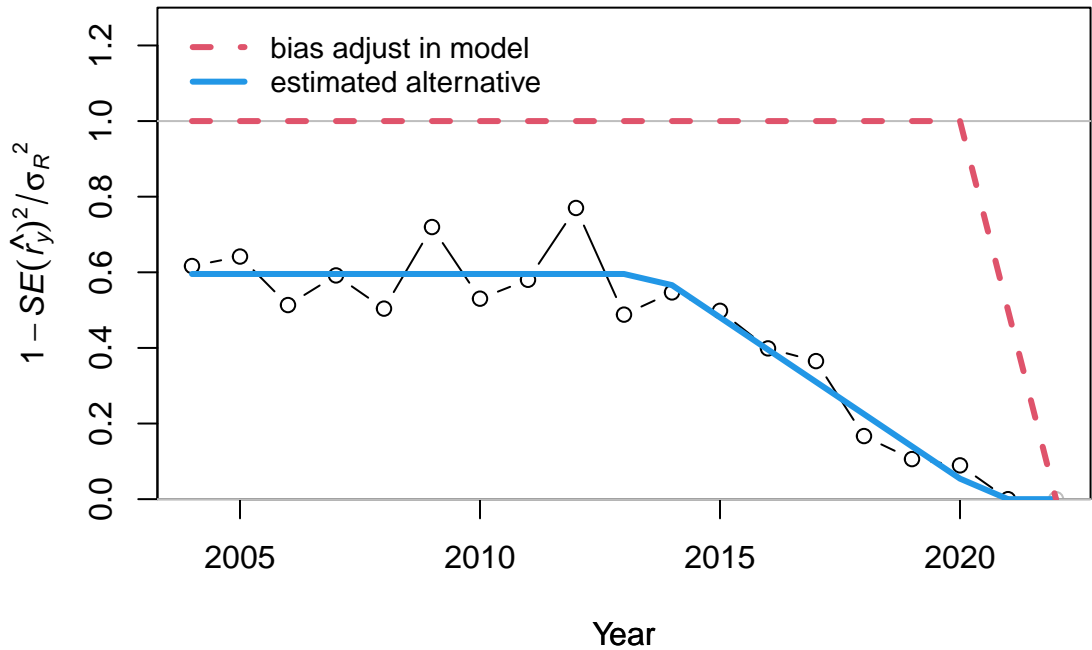
Log recruitment deviation

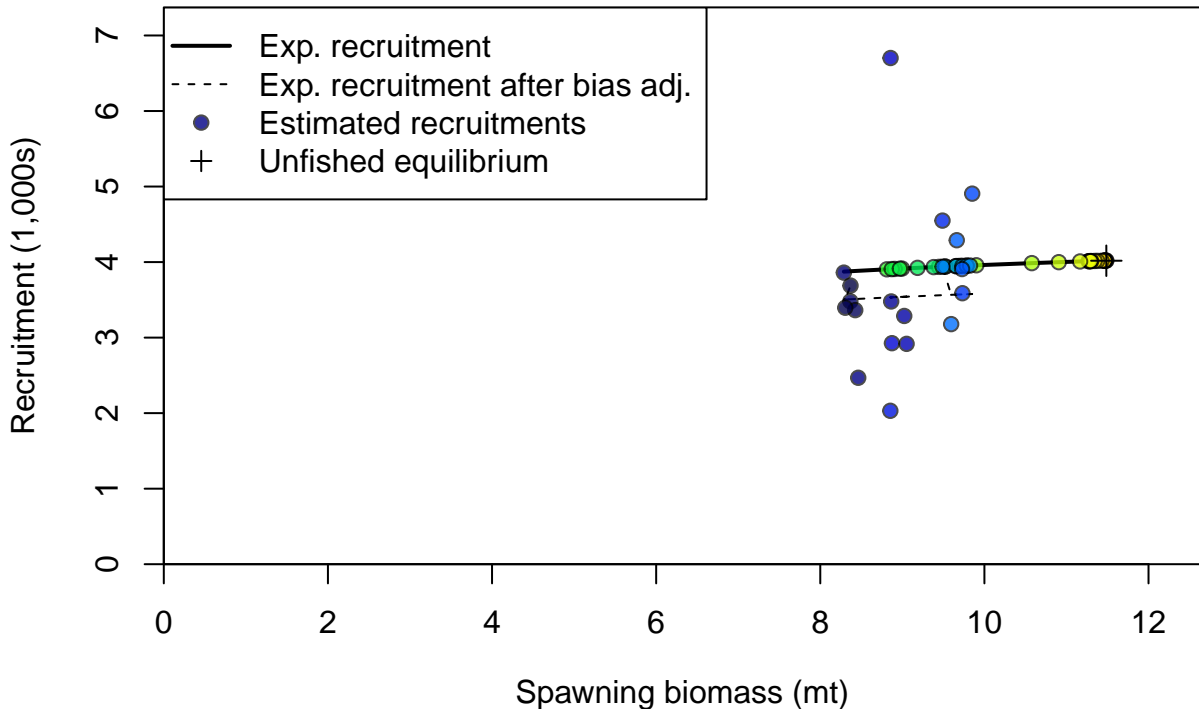


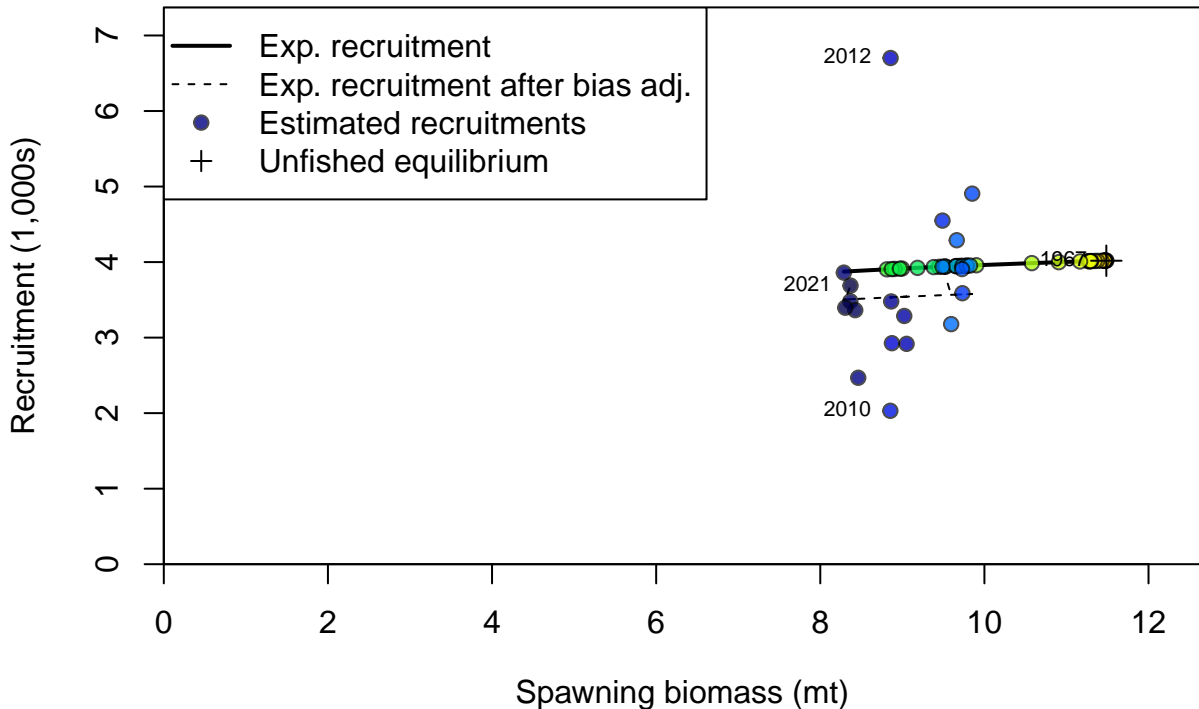
Recruitment deviation variance

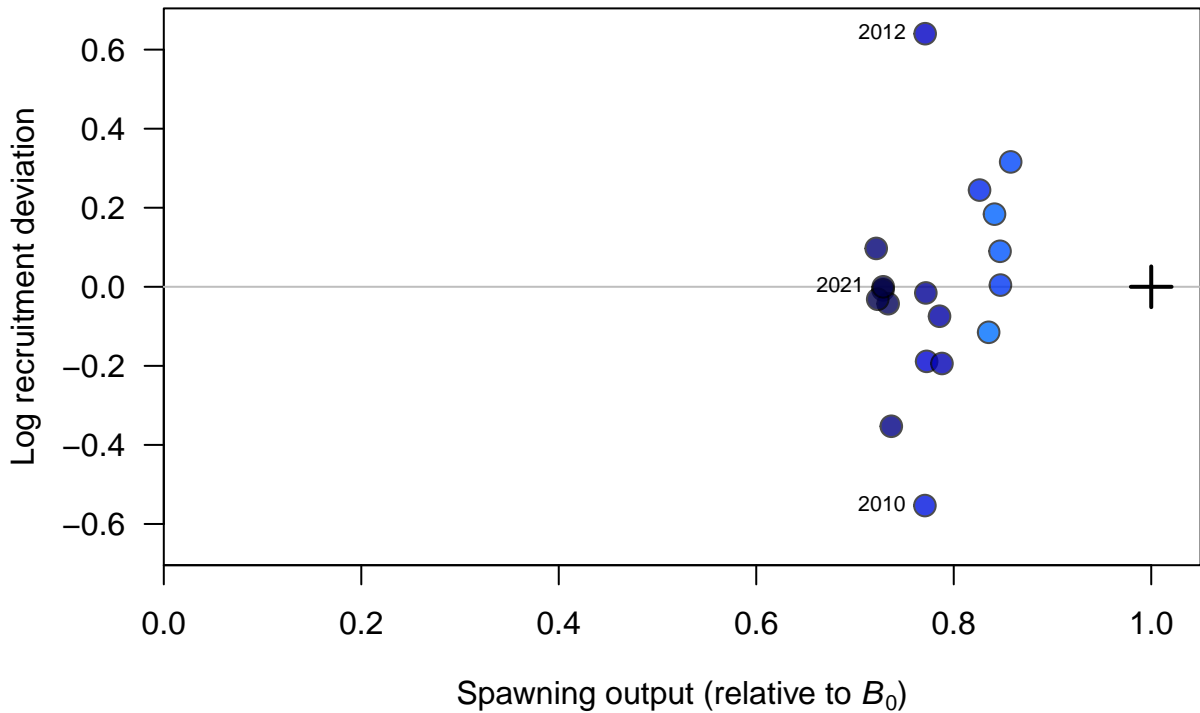
Asymptotic standard error estimate

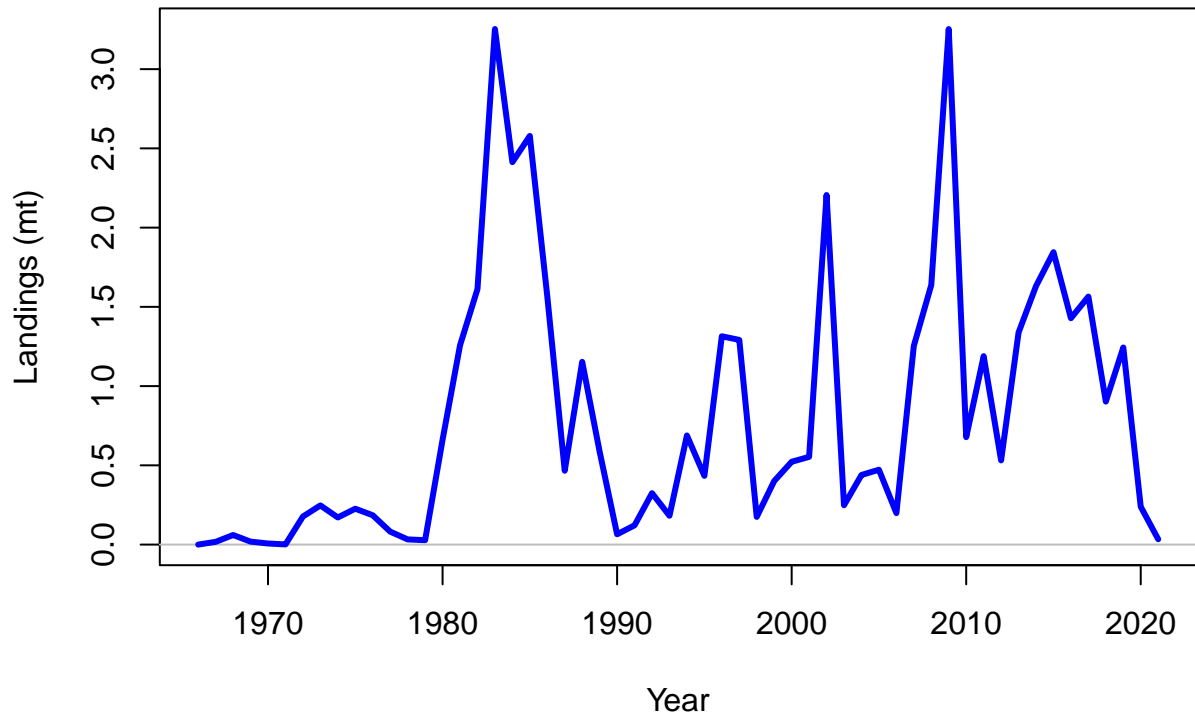


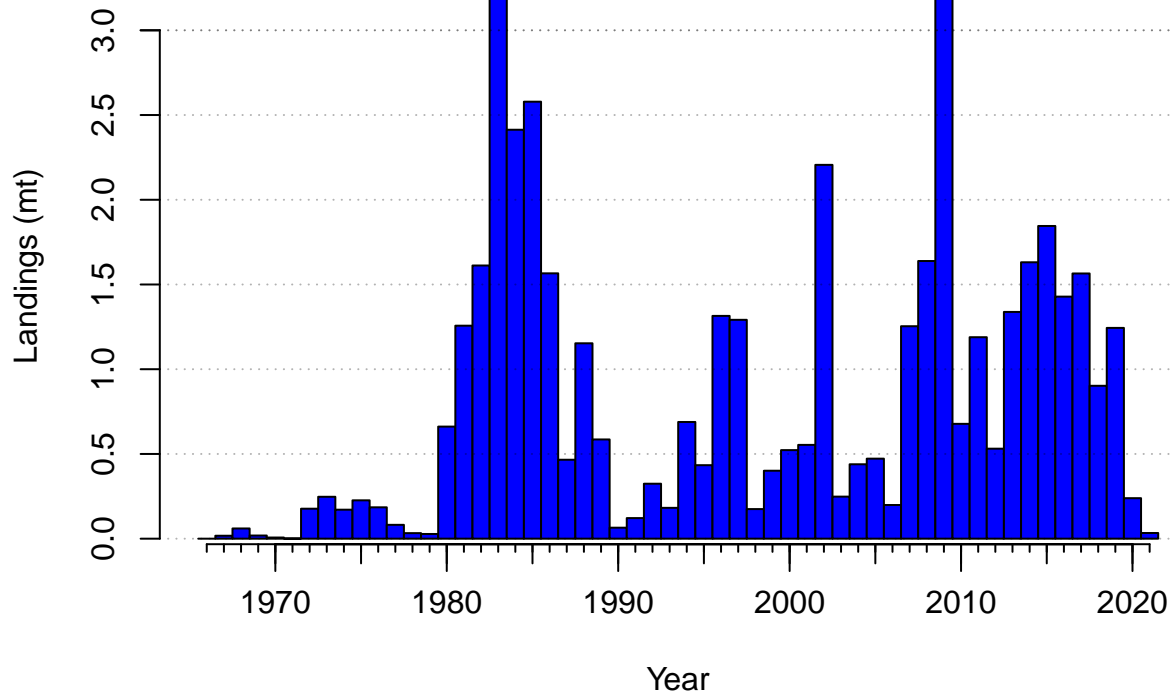




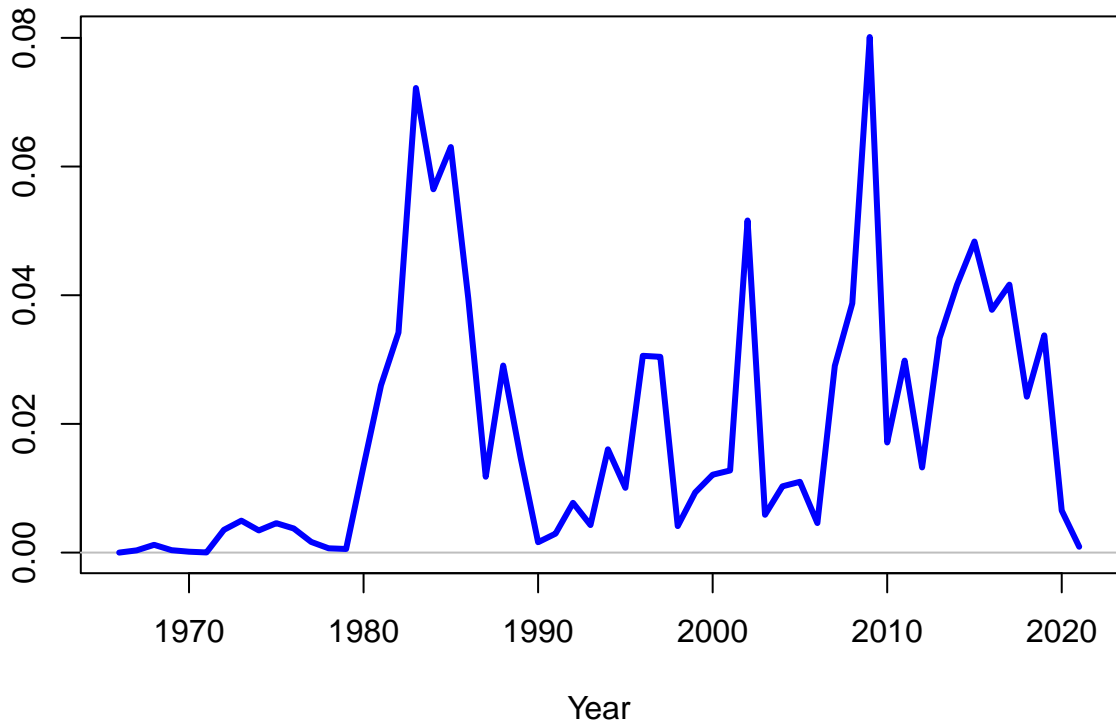




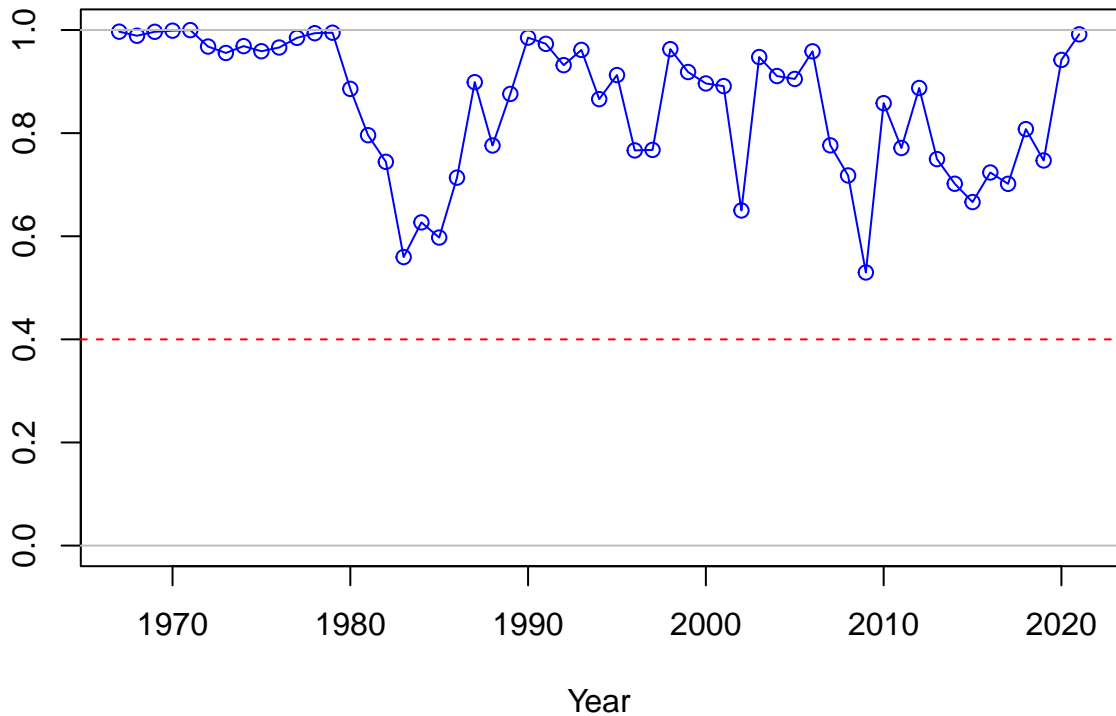




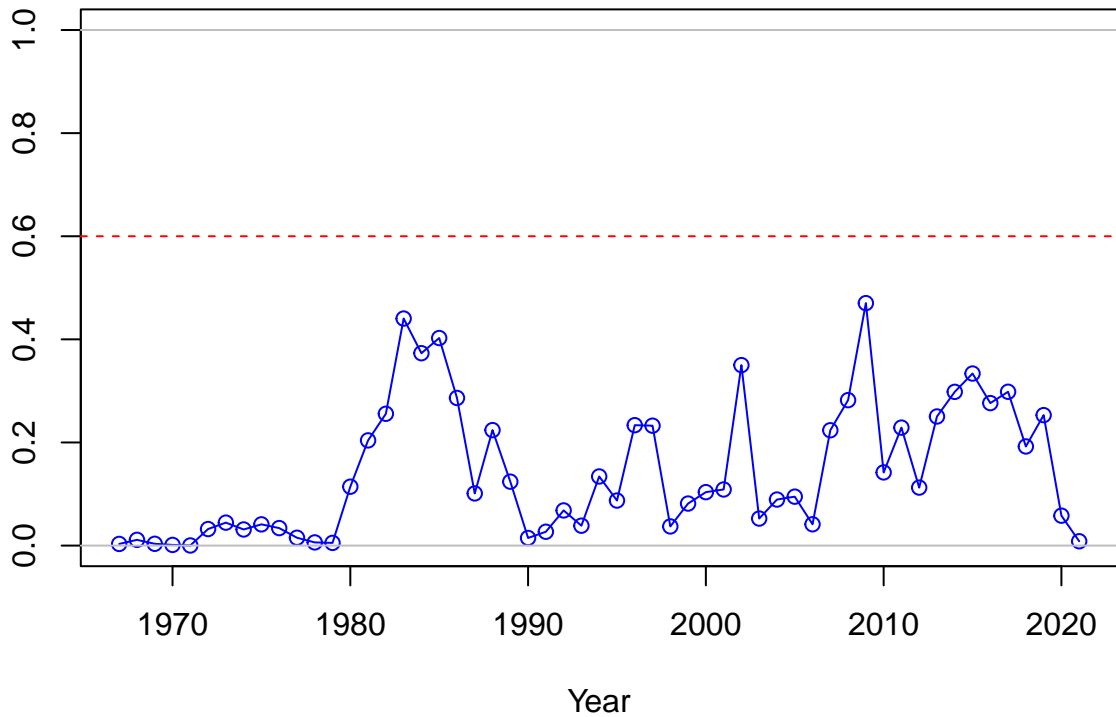
Continuous F



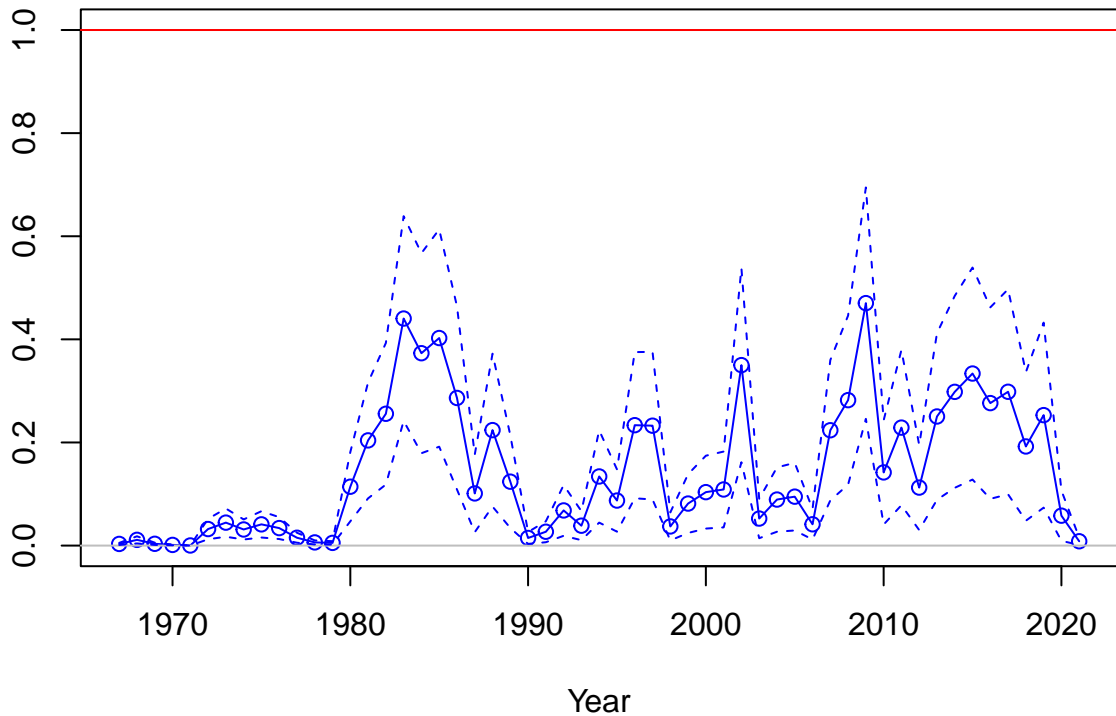
SPR



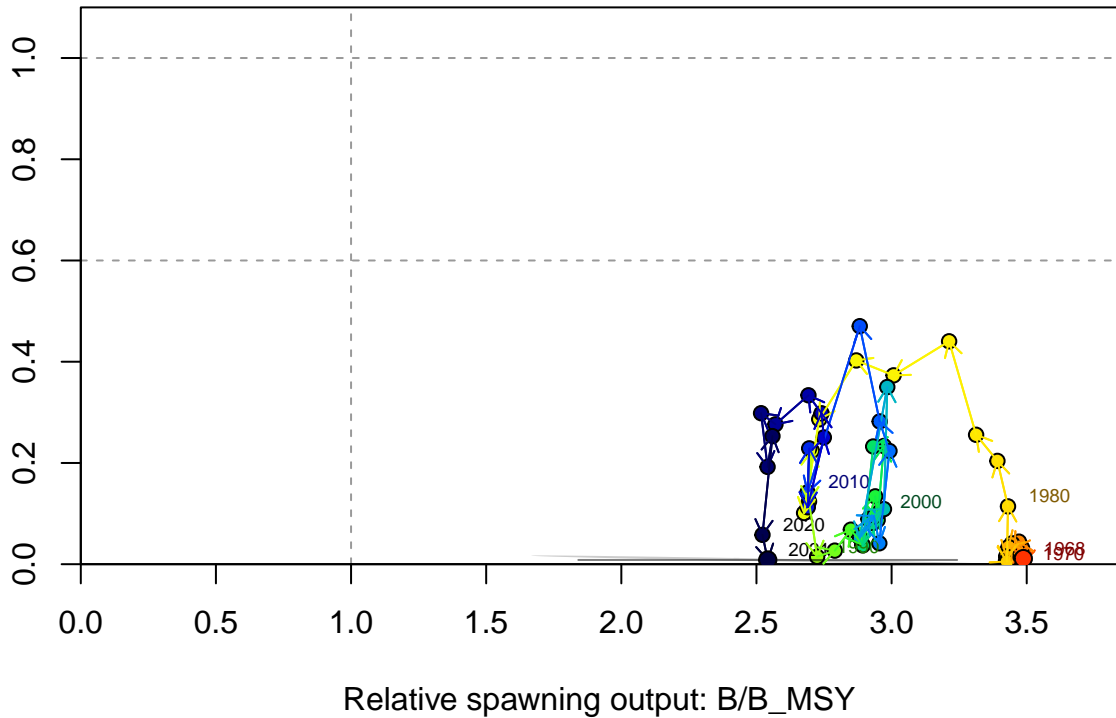
1-SPR



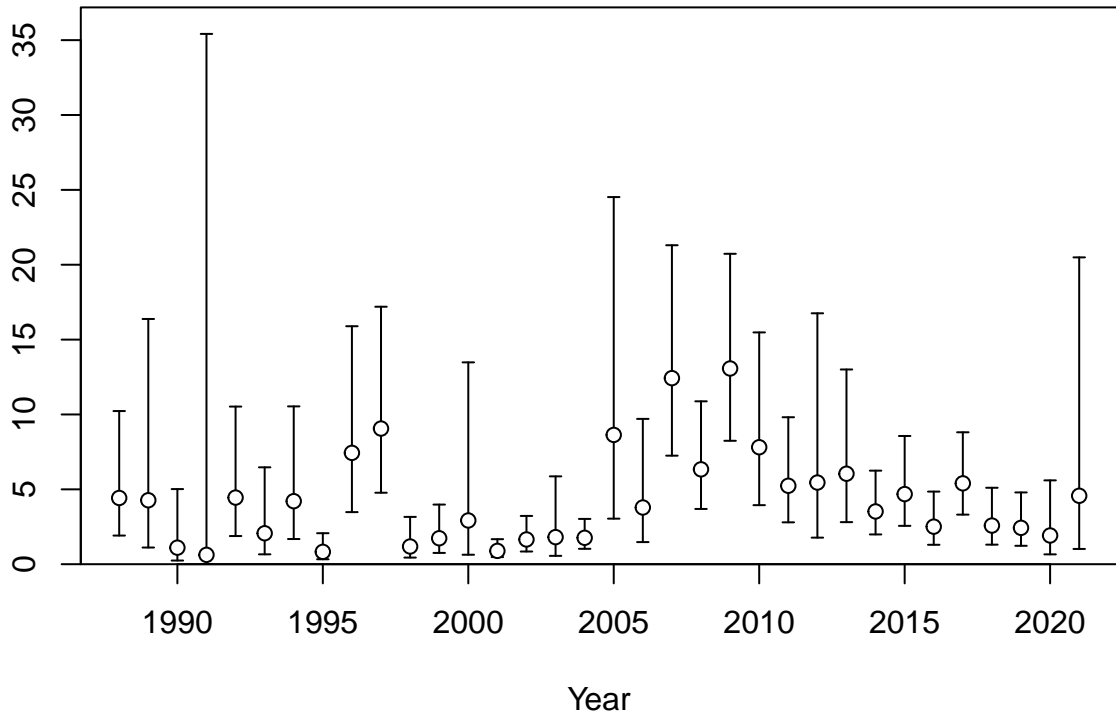
Fishing intensity: 1-SPR



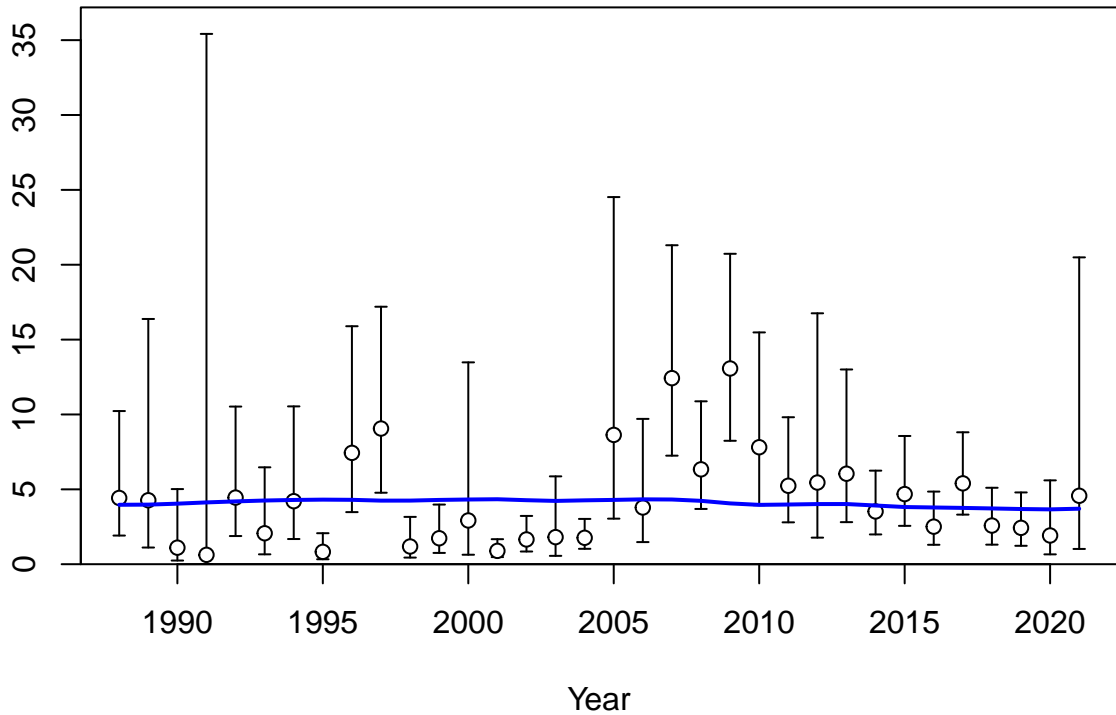
Fishing intensity: 1-SPR



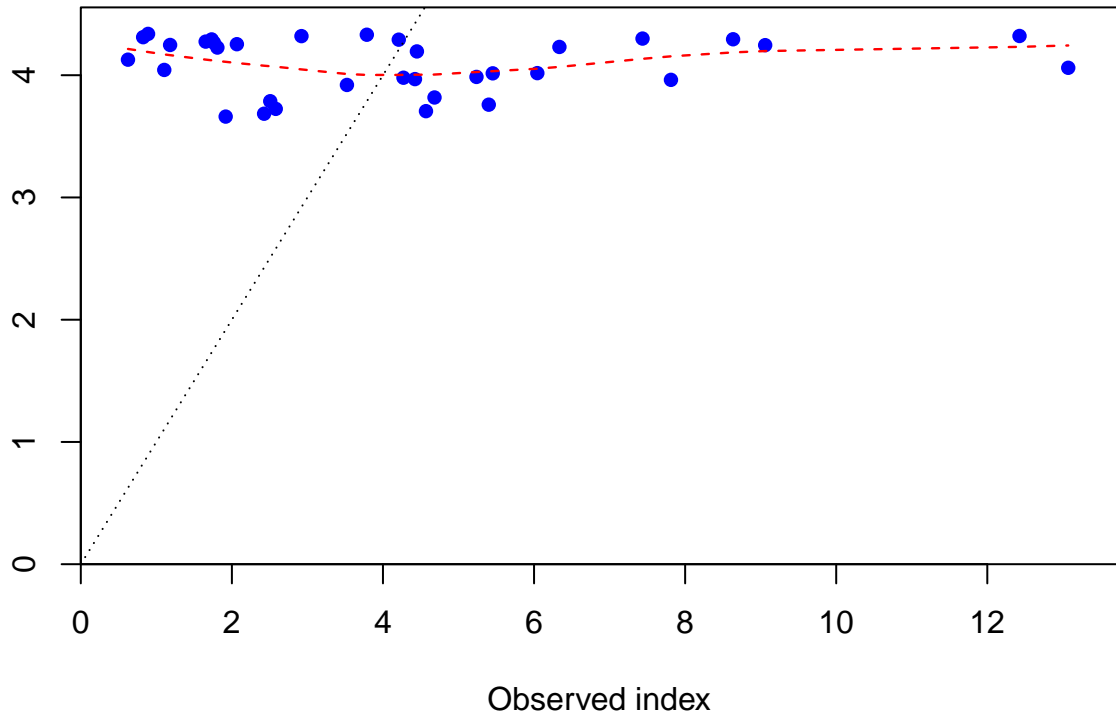
Index



Index



Expected index



Log index

2
0
-2
-4

1990

1995

2000

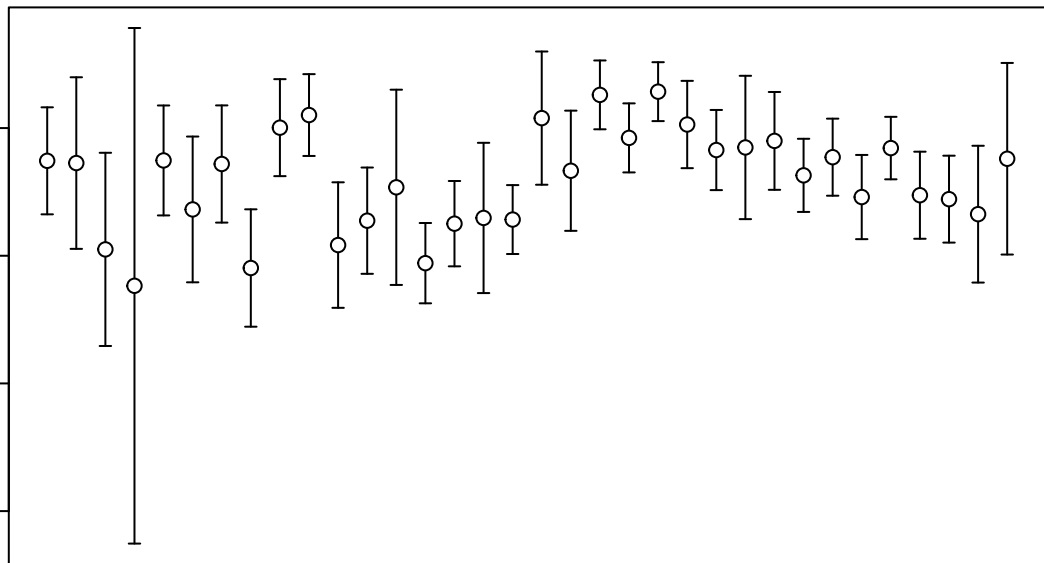
2005

2010

2015

2020

Year



Log index

2
0
-2
-4

1990

1995

2000

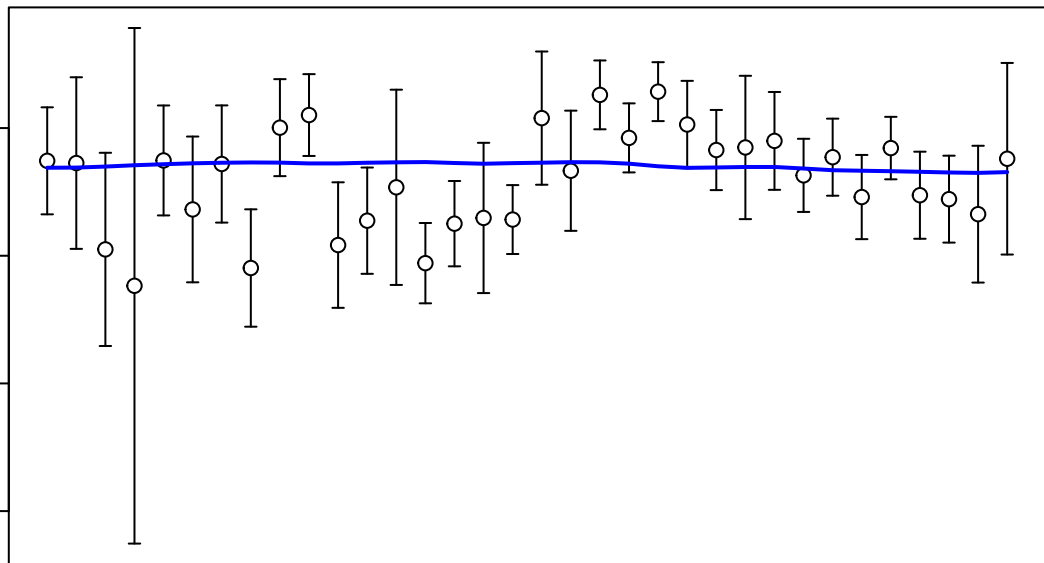
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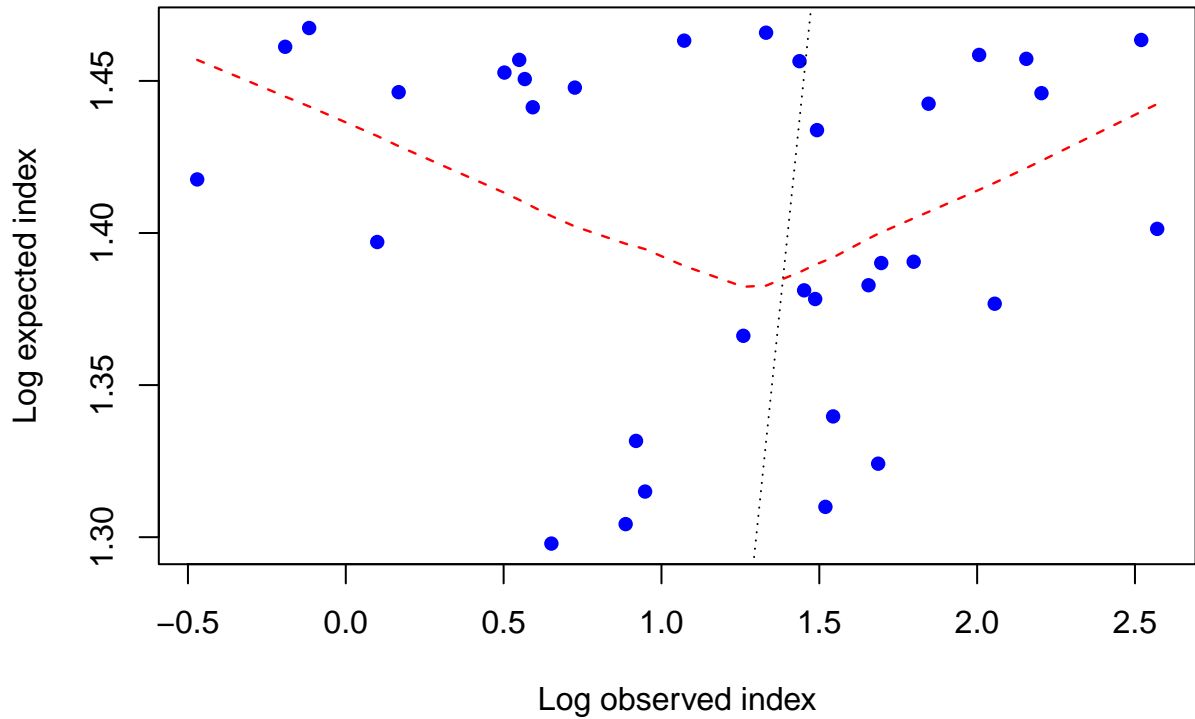
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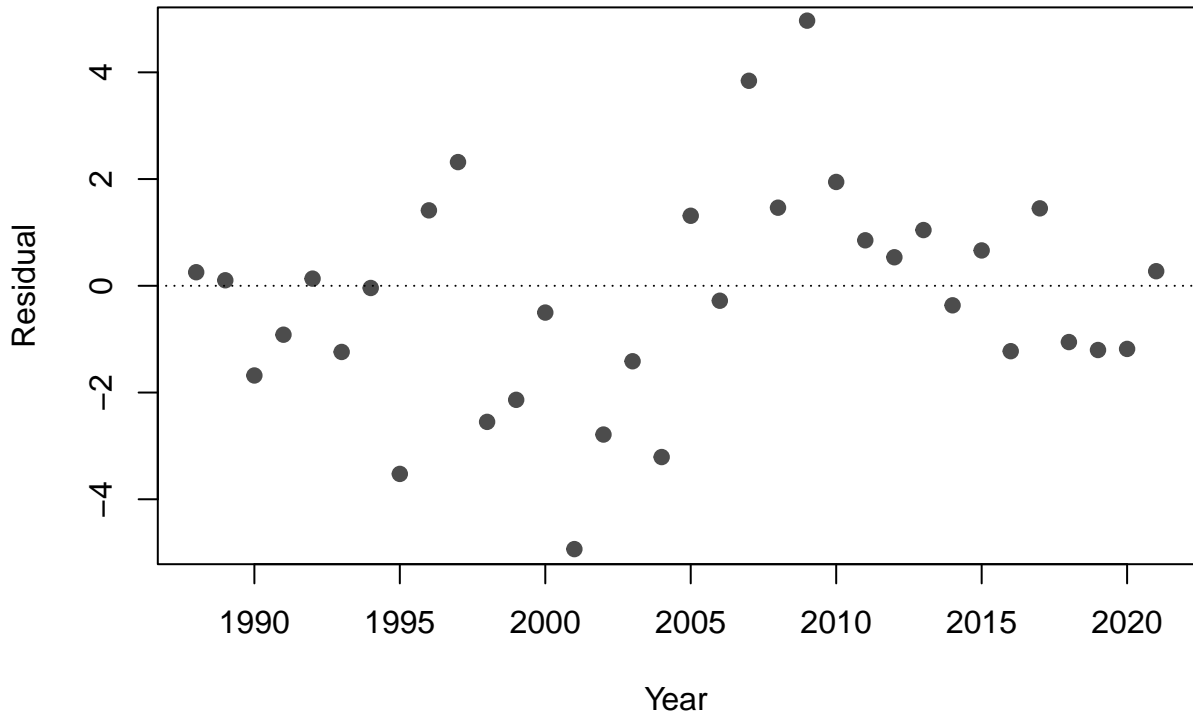
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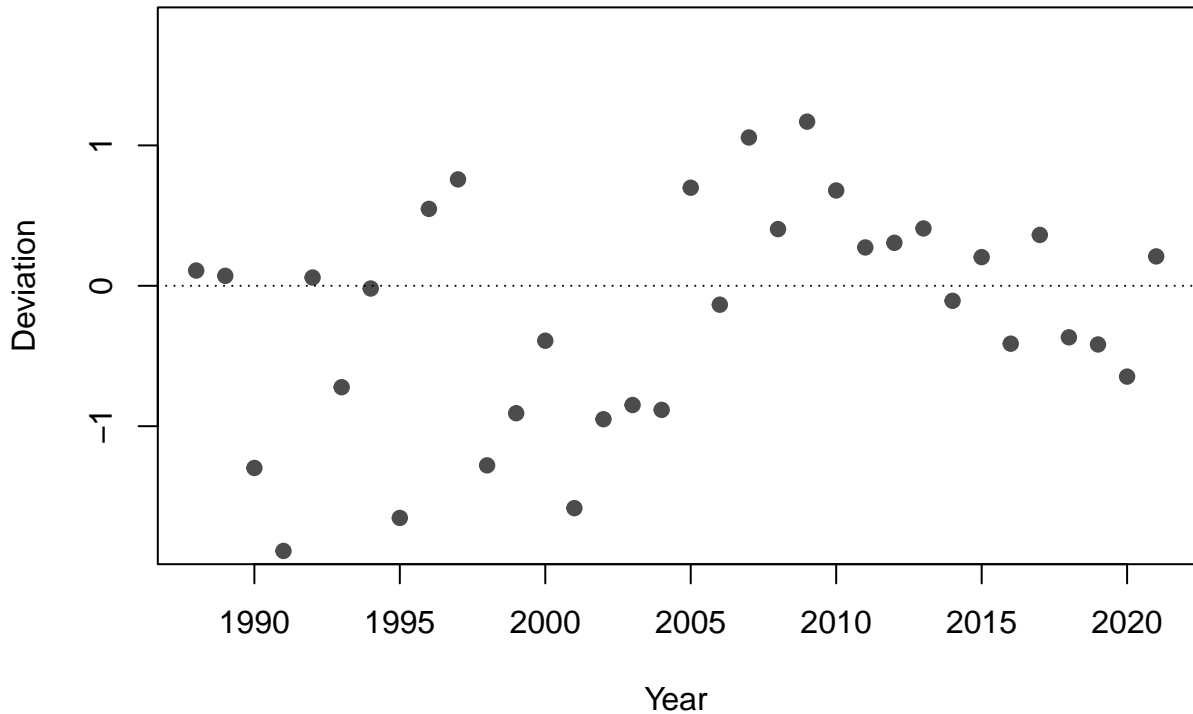
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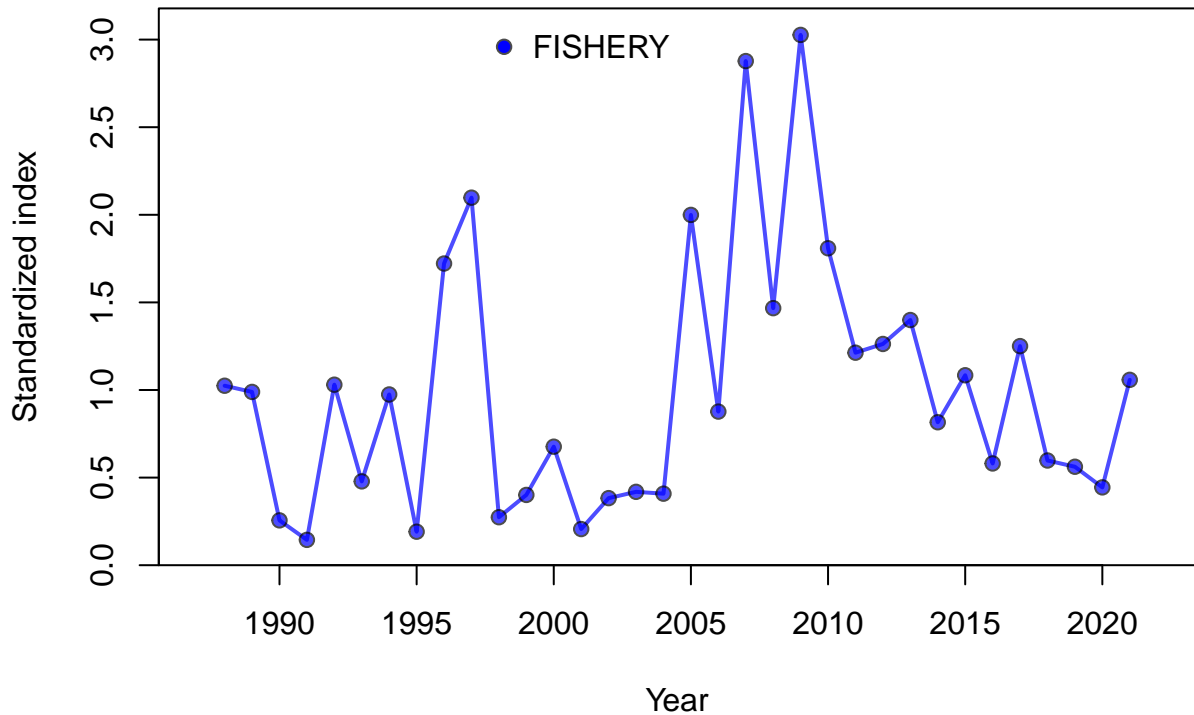
Year

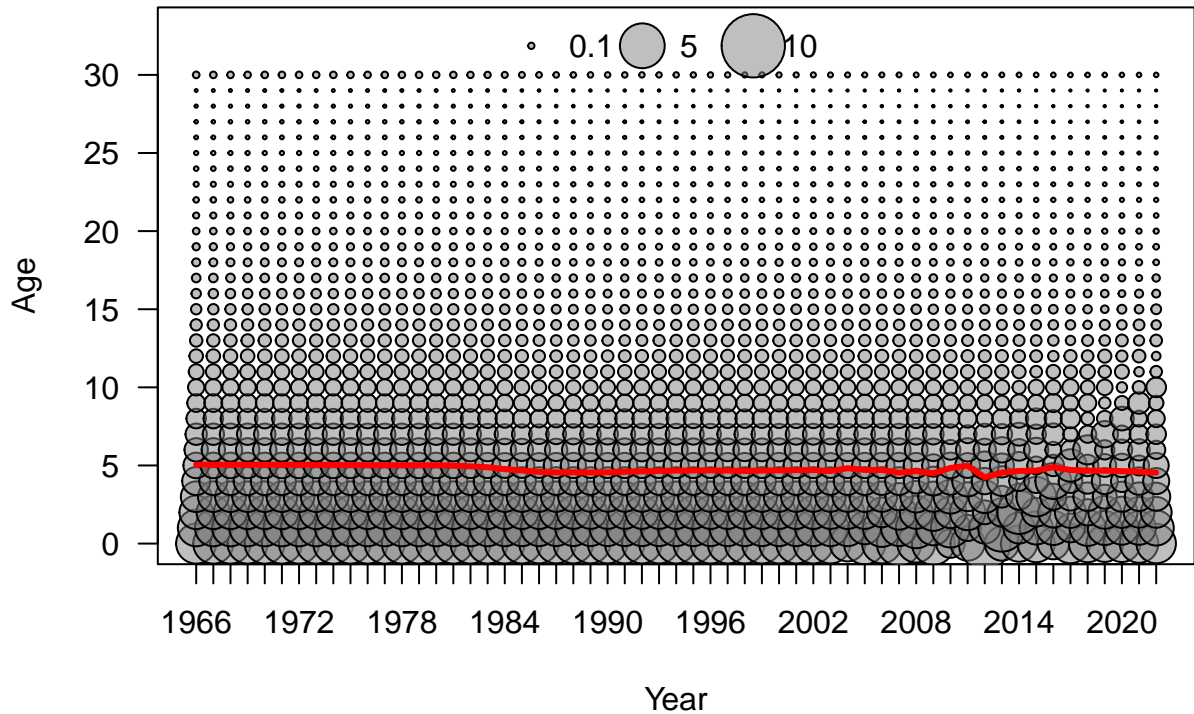


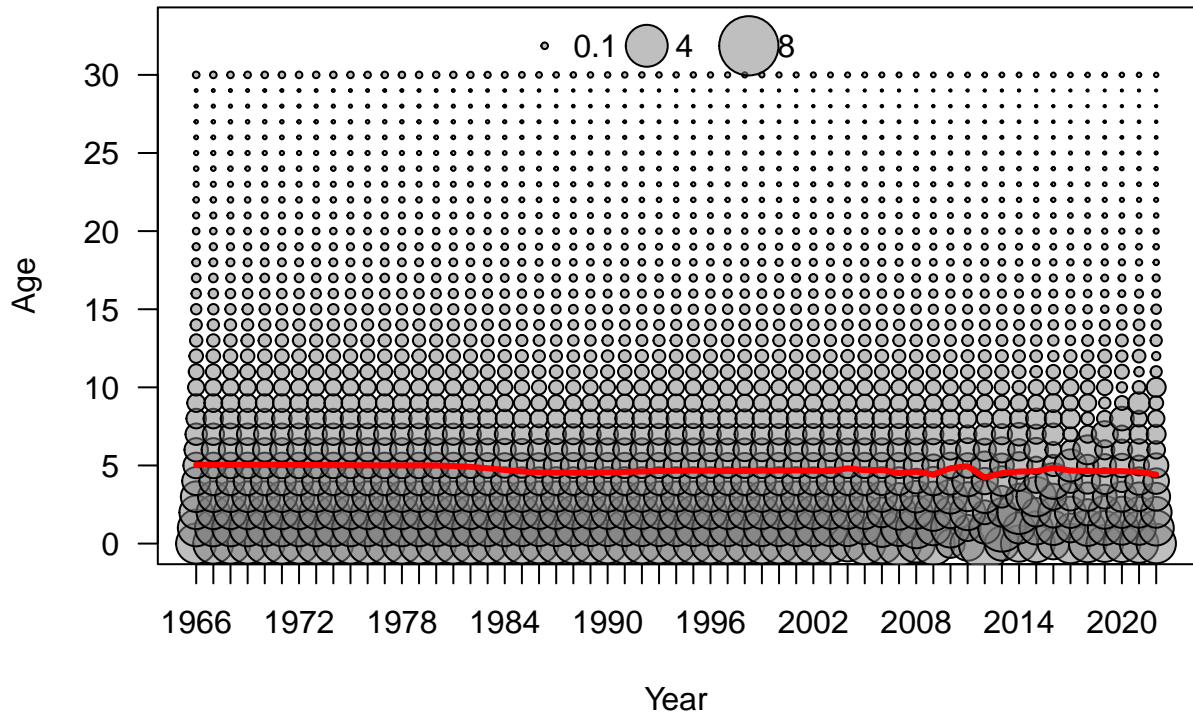


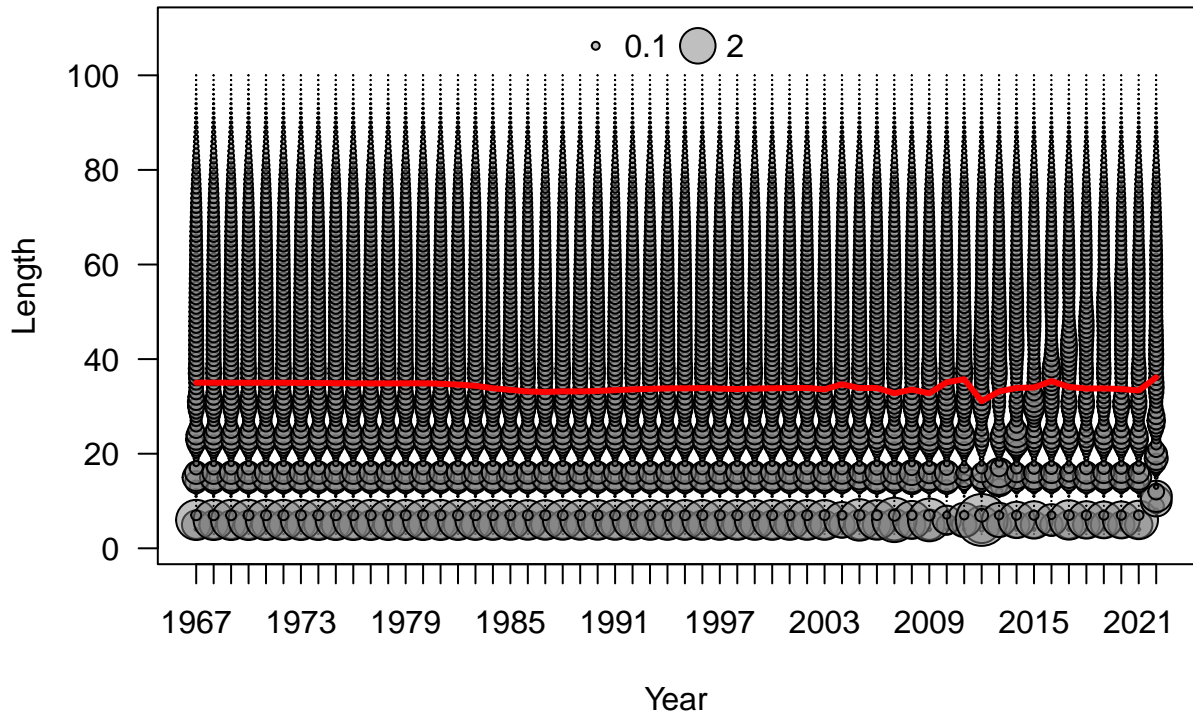


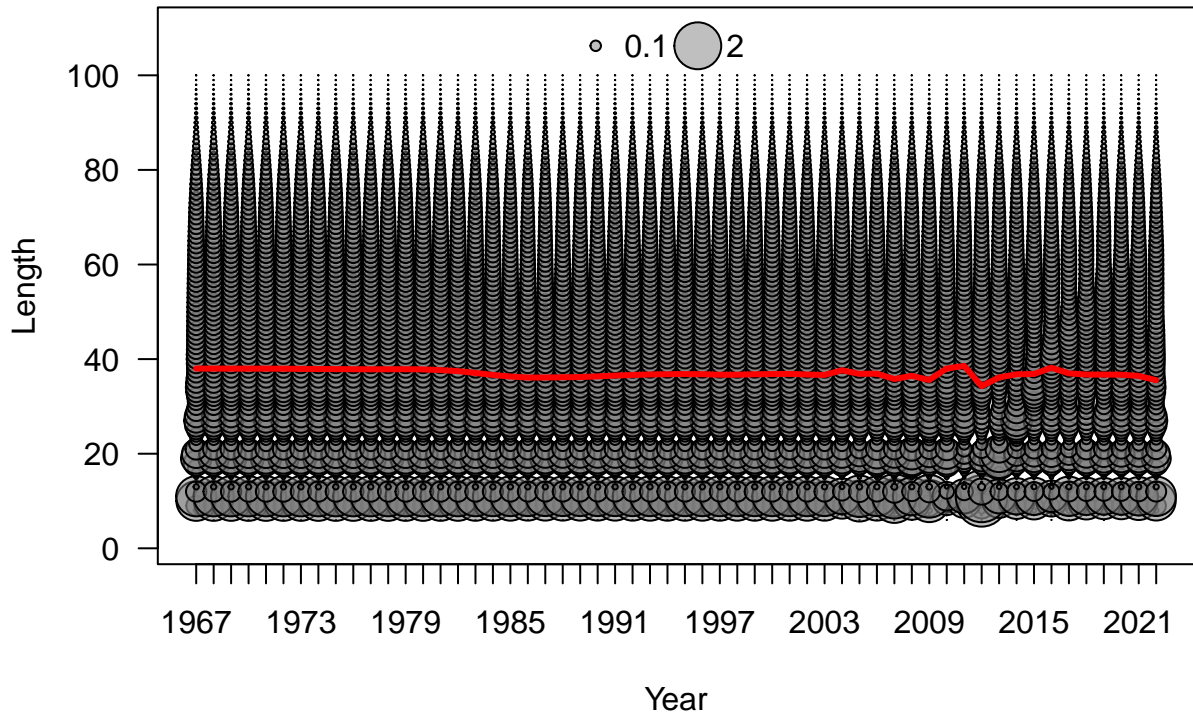


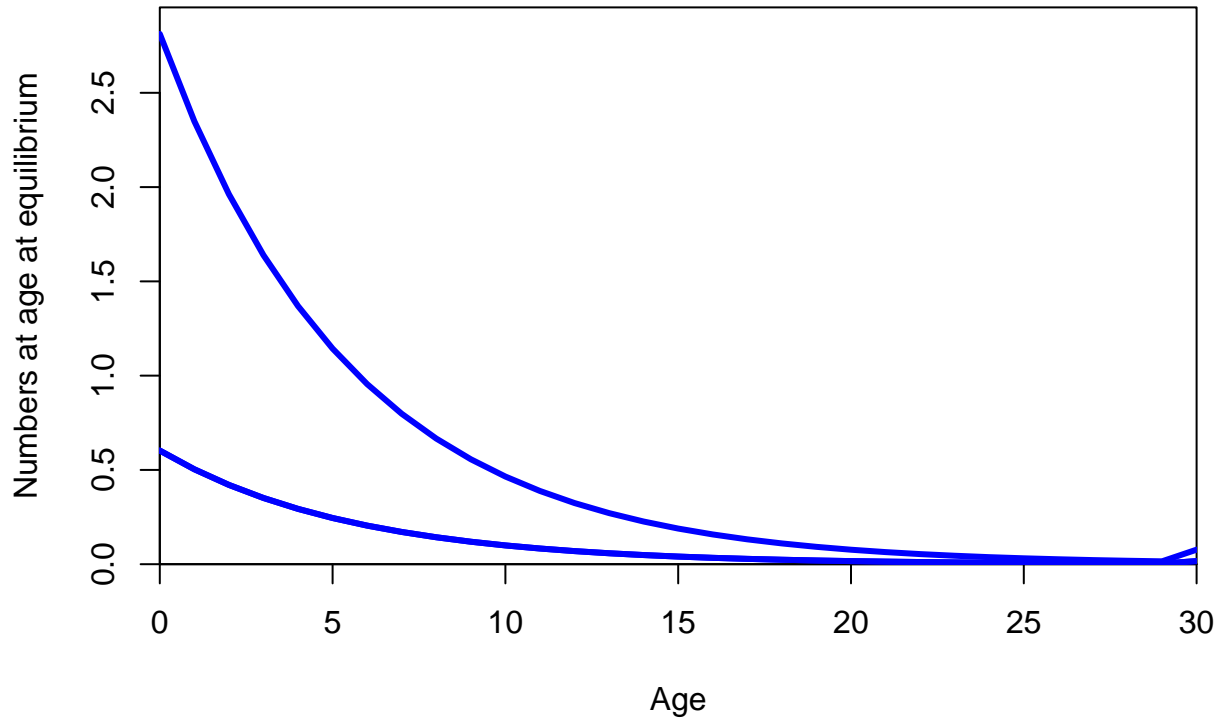






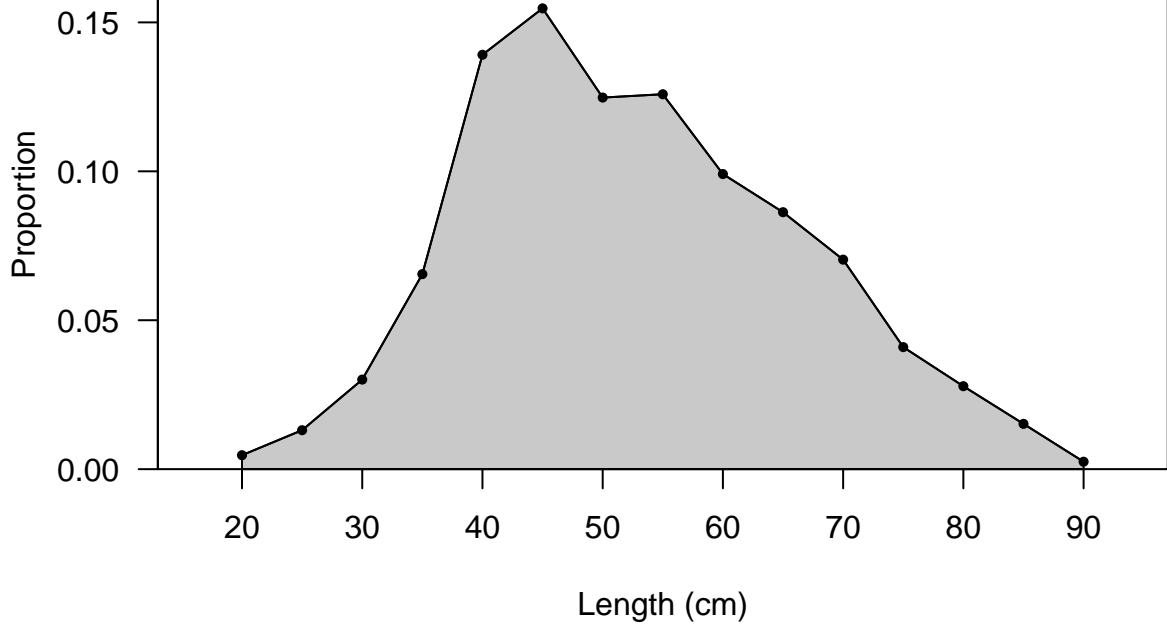






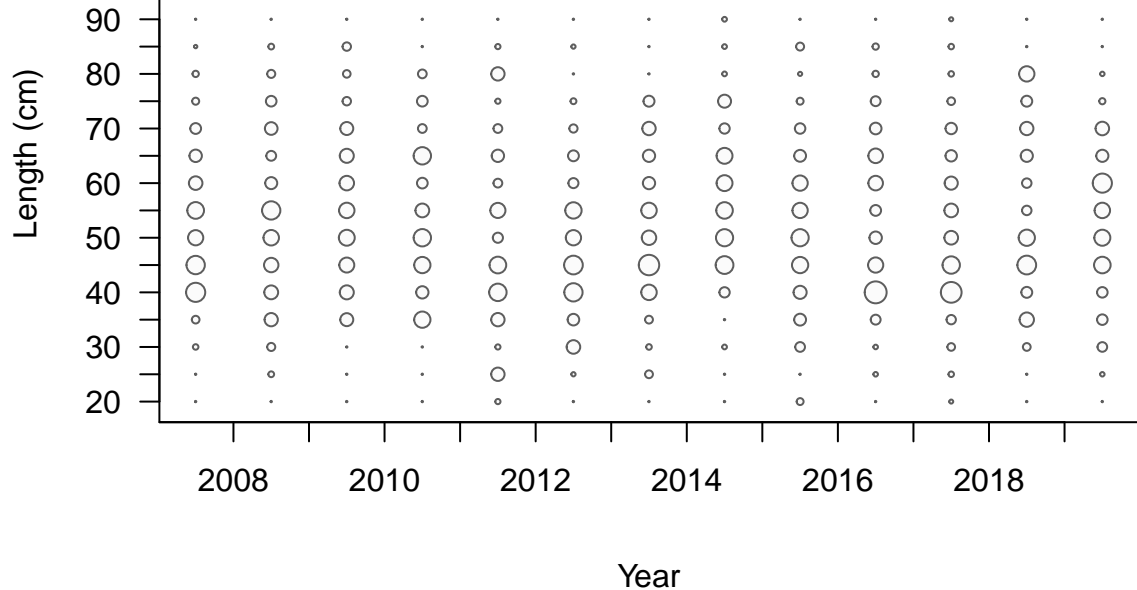
FISHERY

Sum of N input=1078

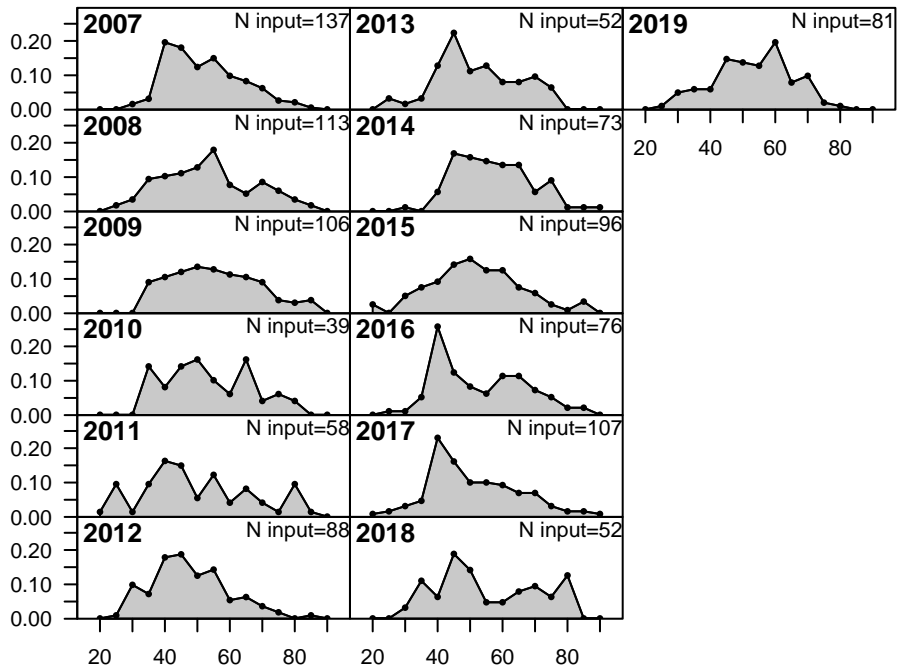


FISHERY

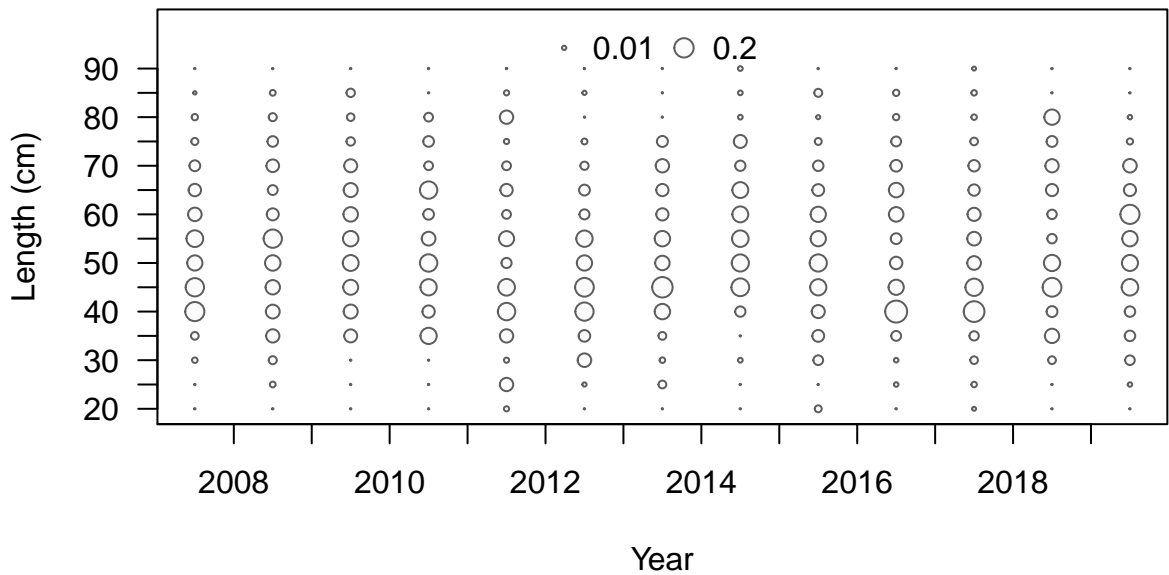
◦ 0.01 ○ 0.2



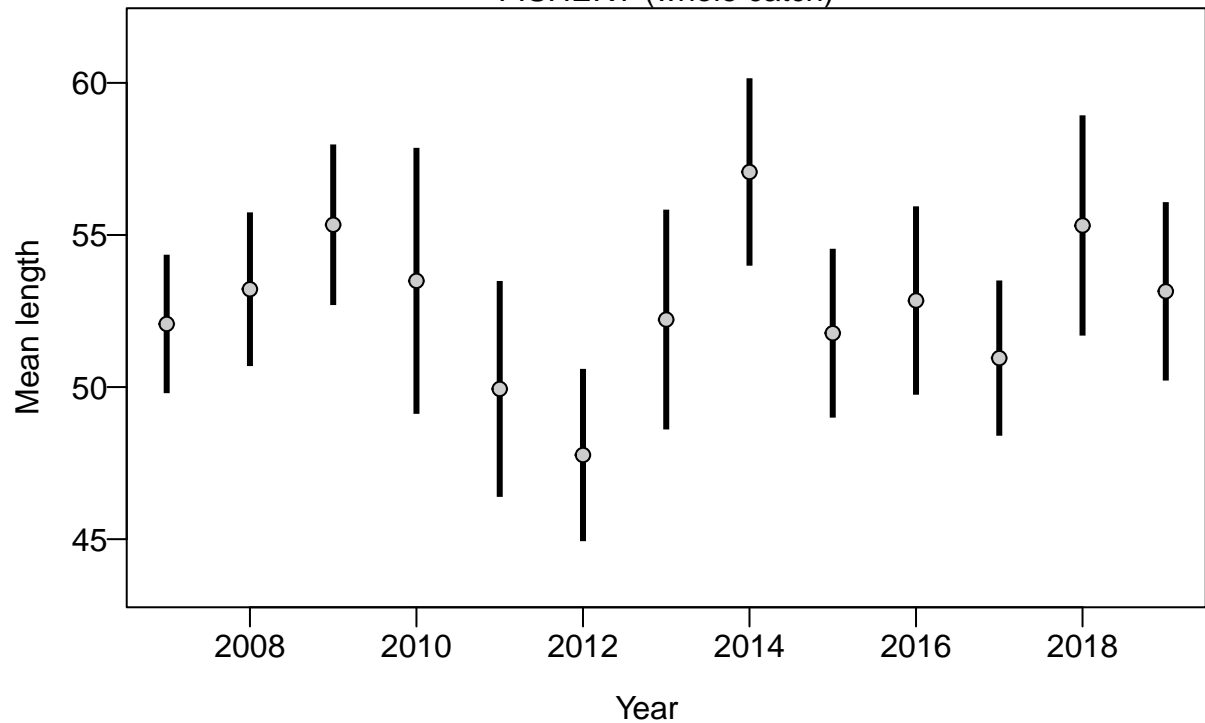
Proportion



Length (cm)

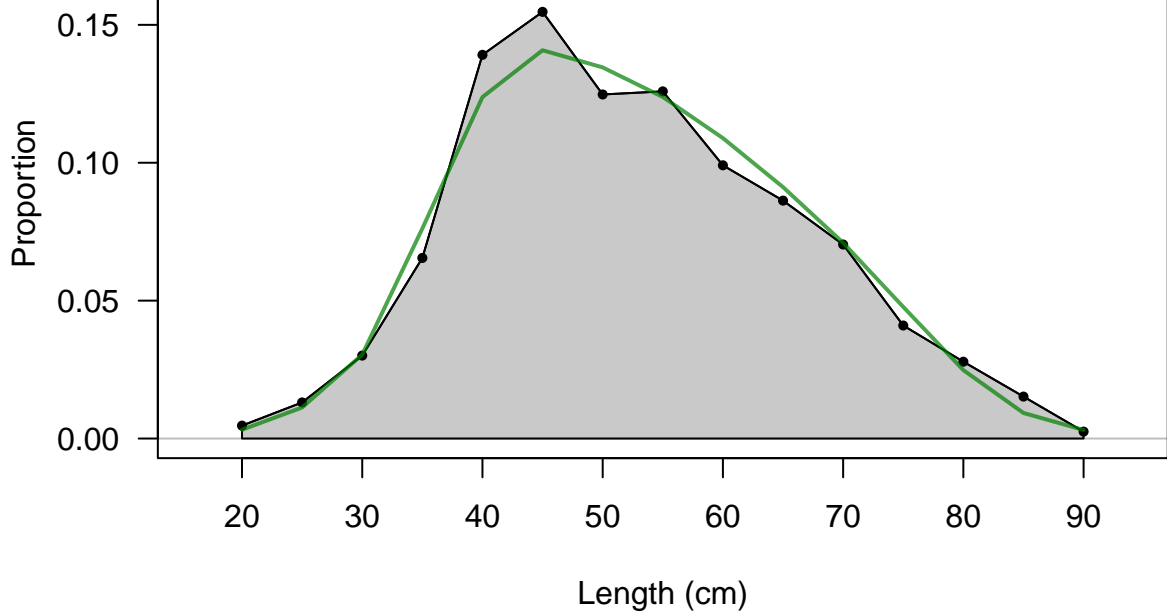


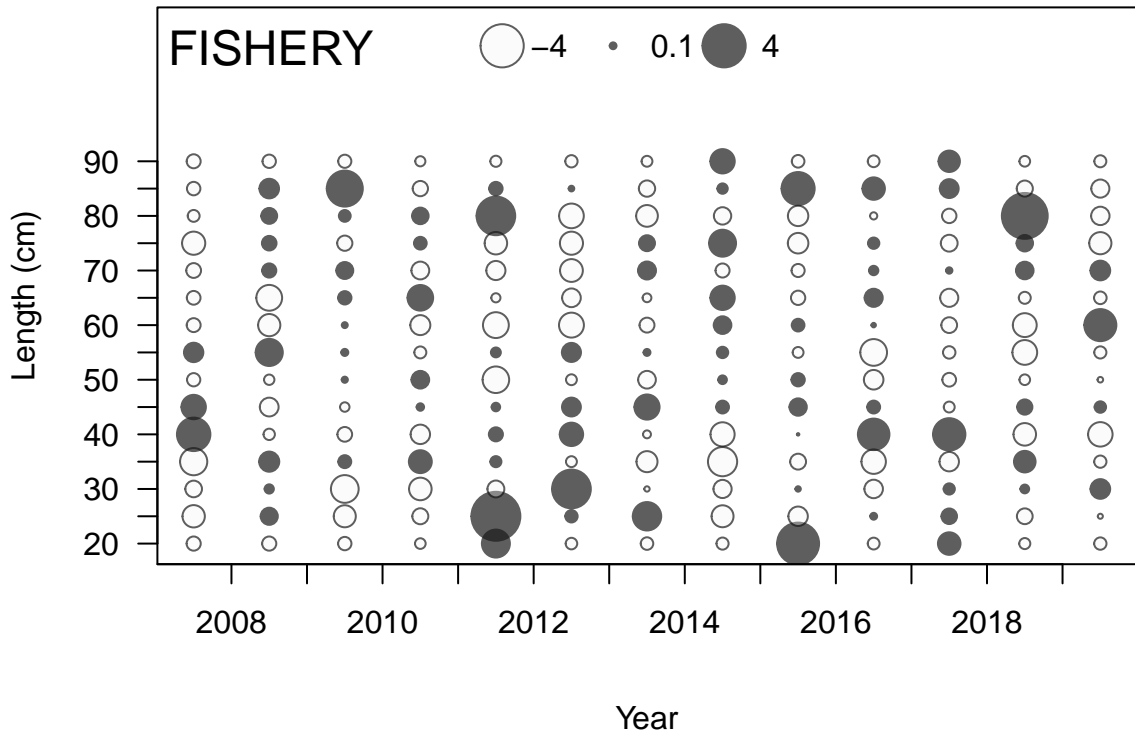
FISHERY (whole catch)



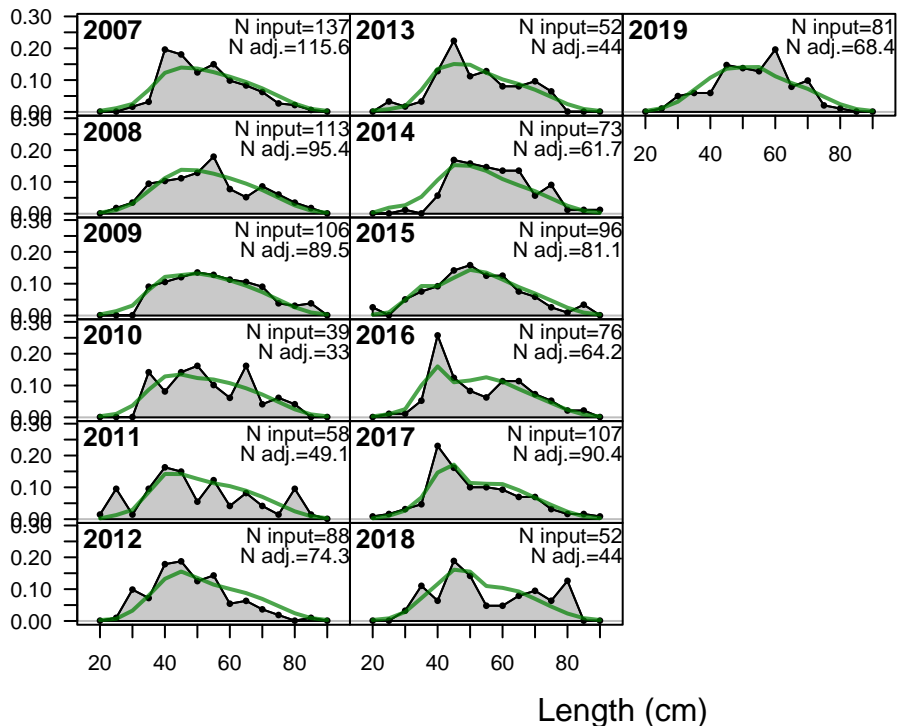
FISHERY

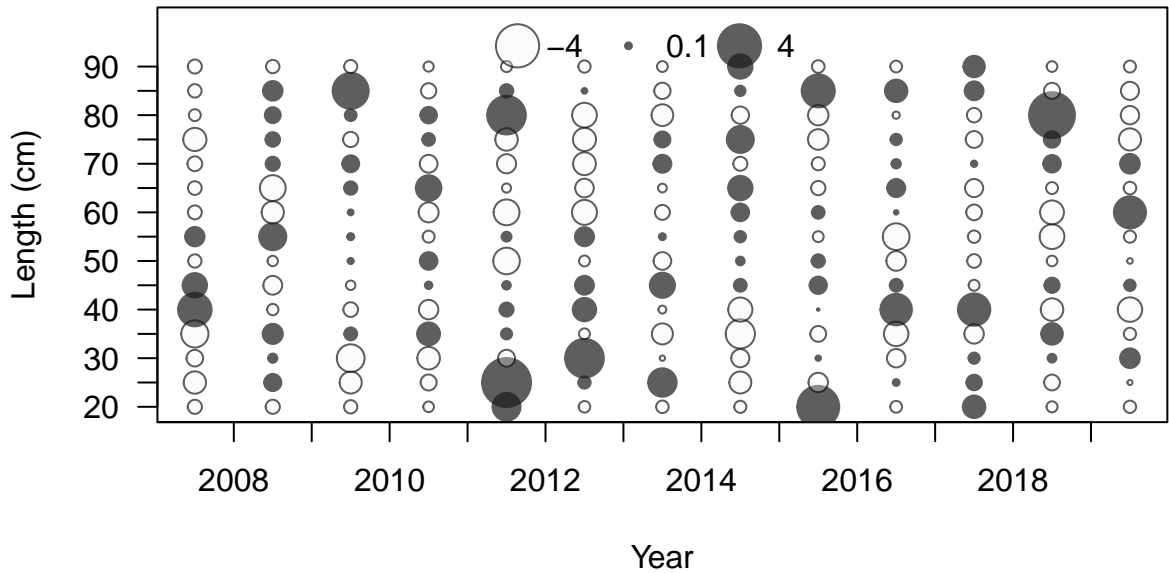
Sum of N input=1078
Sum of N adj.=910.8



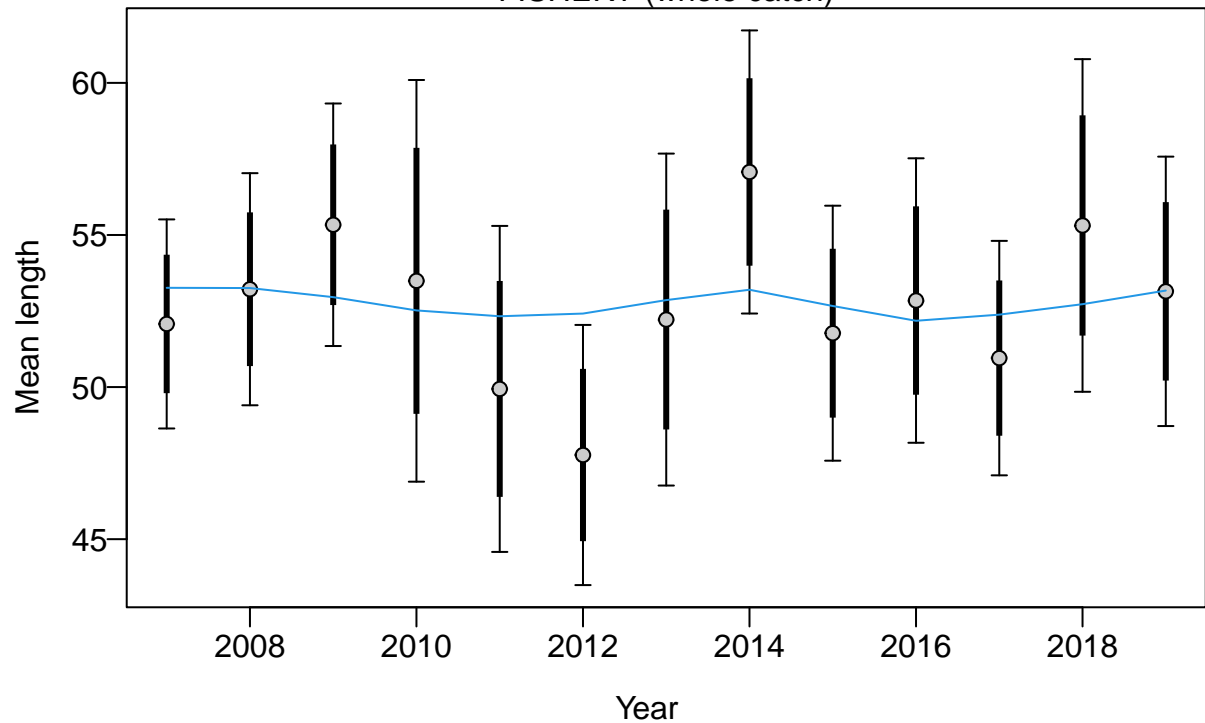


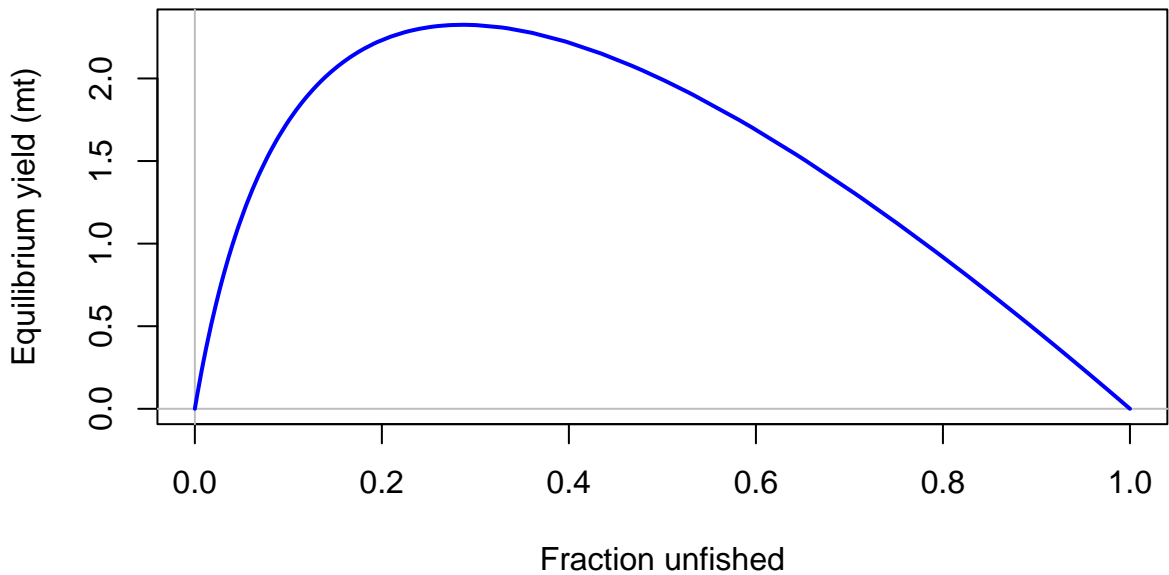
Proportion

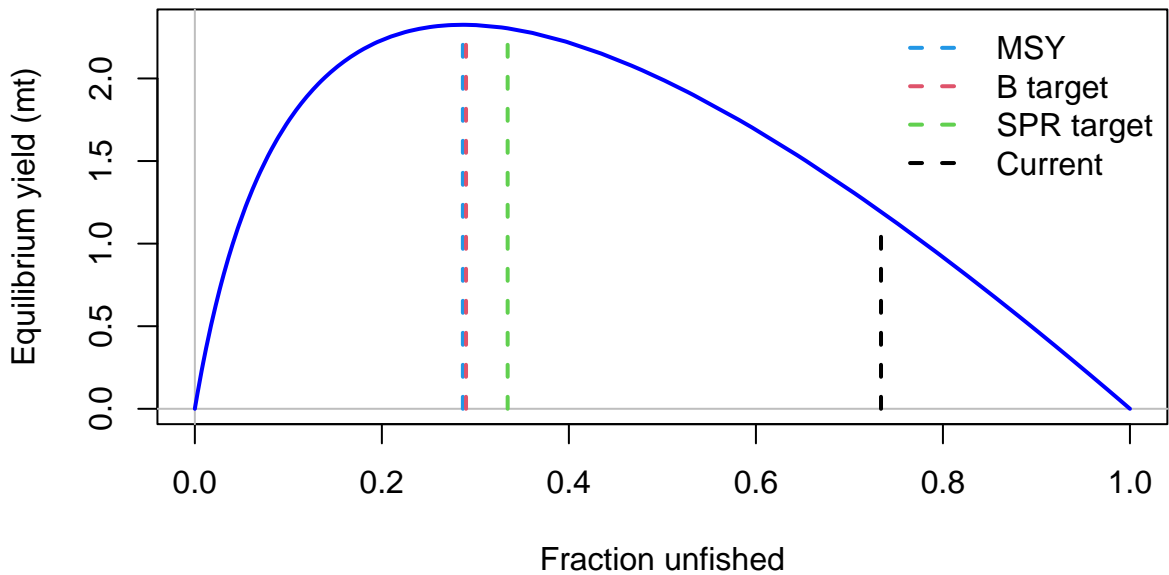


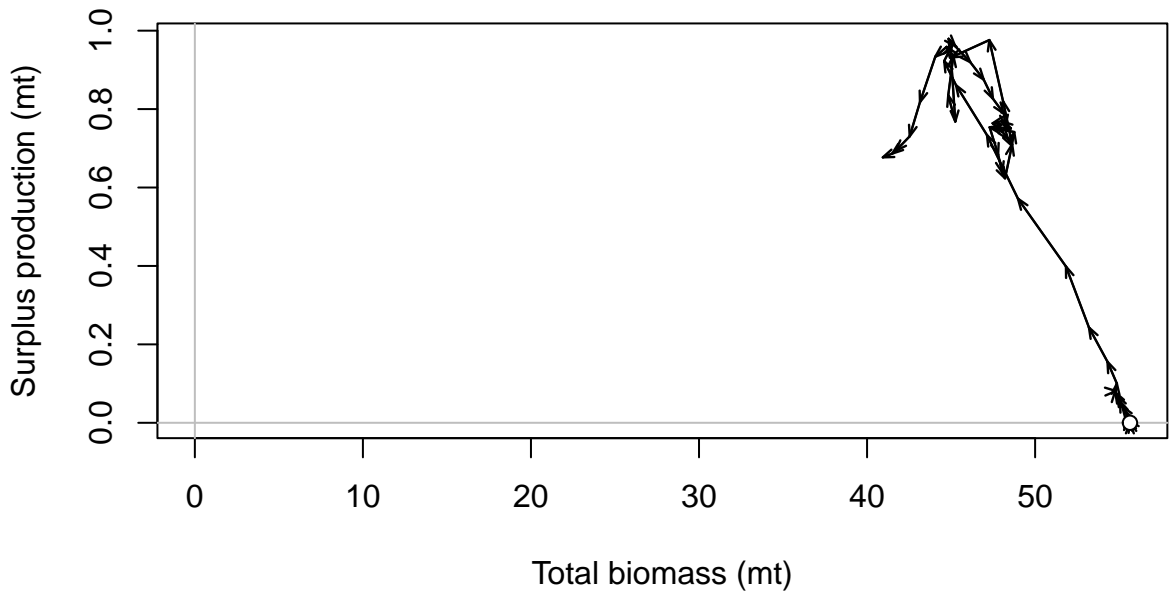


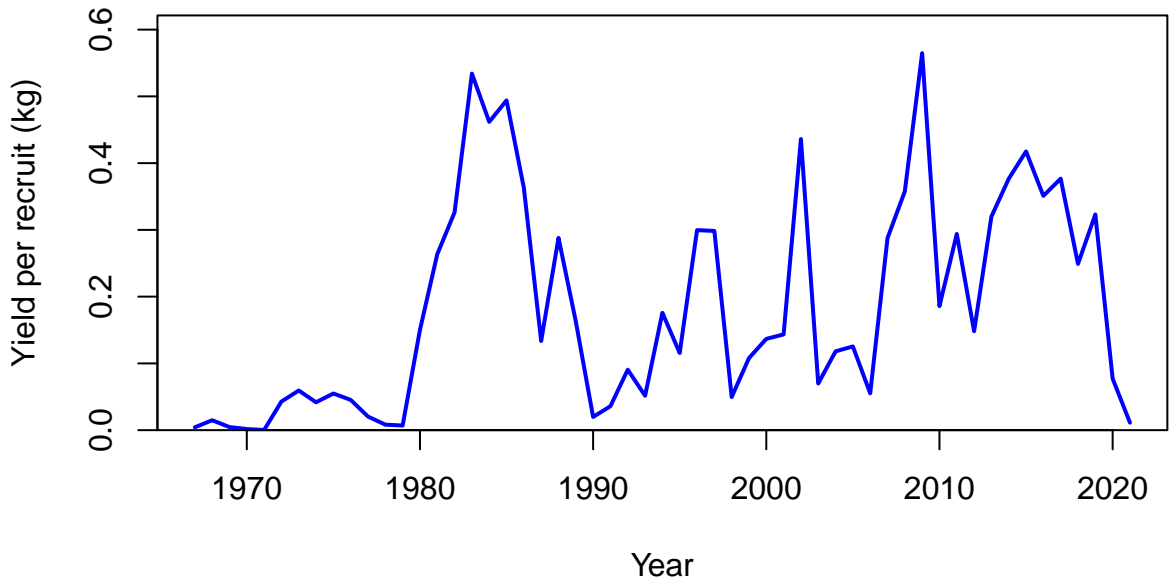
FISHERY (whole catch)

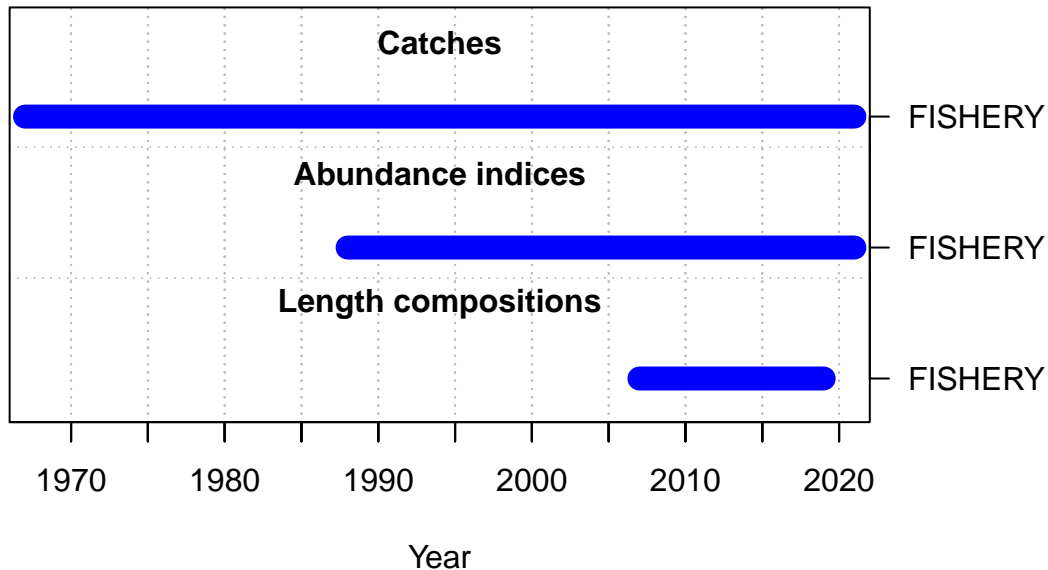


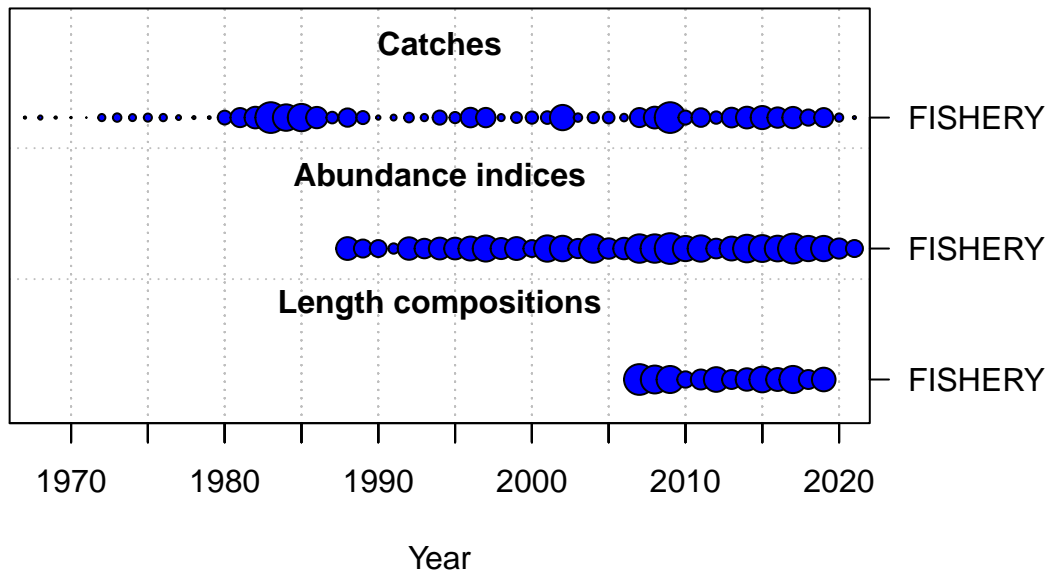




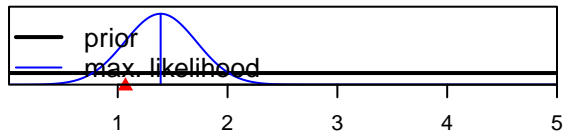




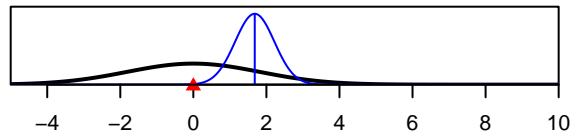




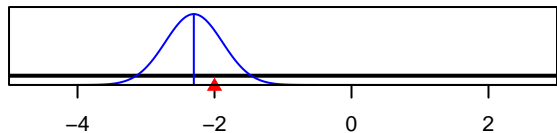
SR_LN(R0)



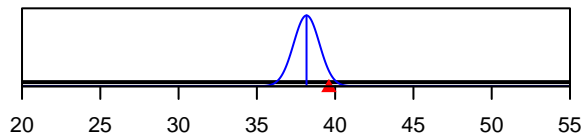
ln(DM_theta)_1



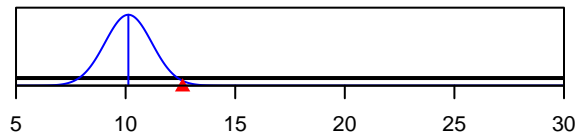
LnQ_base_FISHERY(1)



Size_inflection_FISHERY(1)



Size_95%width_FISHERY(1)



Parameter value