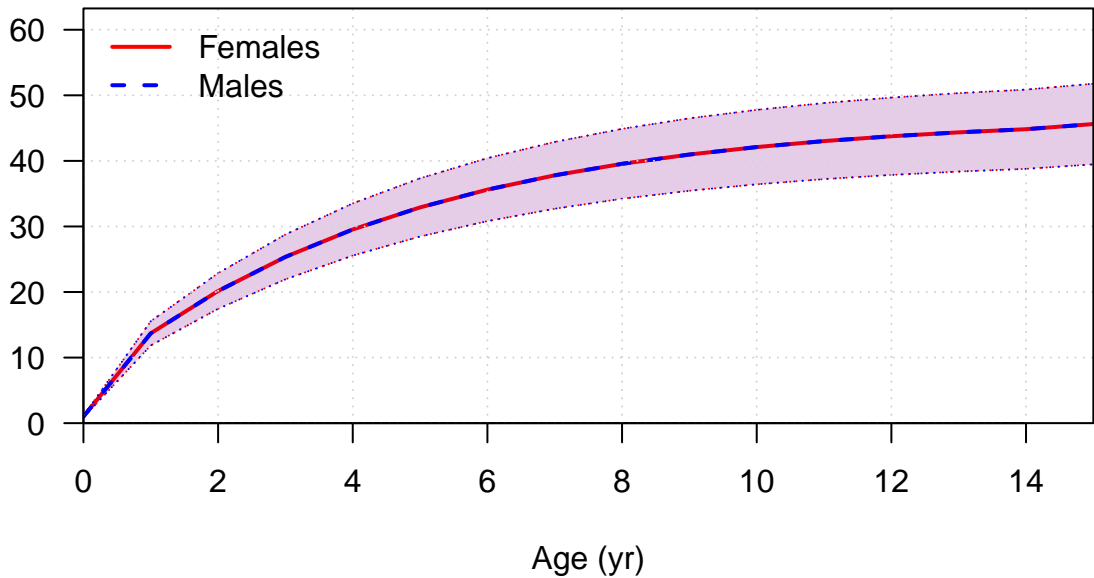
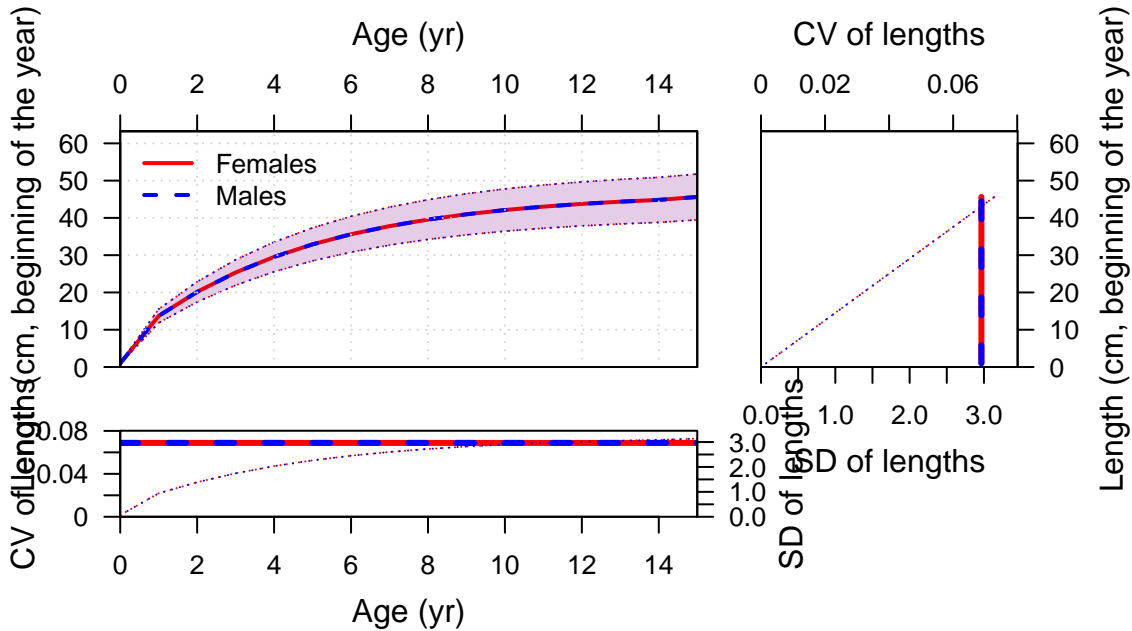
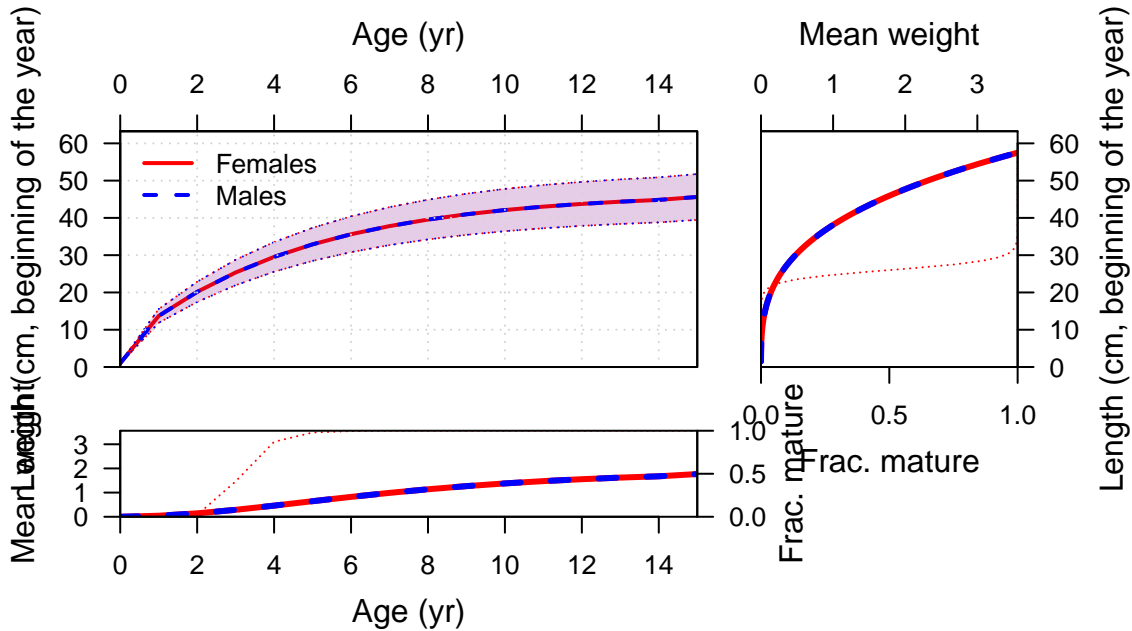


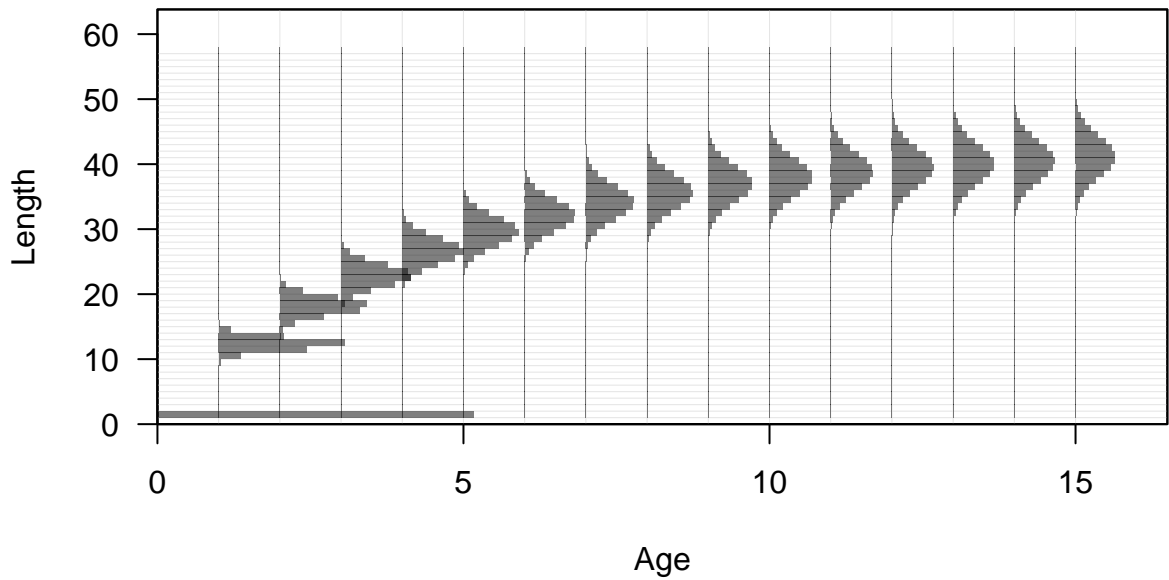
Plots created using the 'r4ss' package in R
Stock Synthesis version: 3.30.19.0
StartTime: Sat Nov 05 08:20:10 2022
Data_File: data.ss
Control_File: control.ss

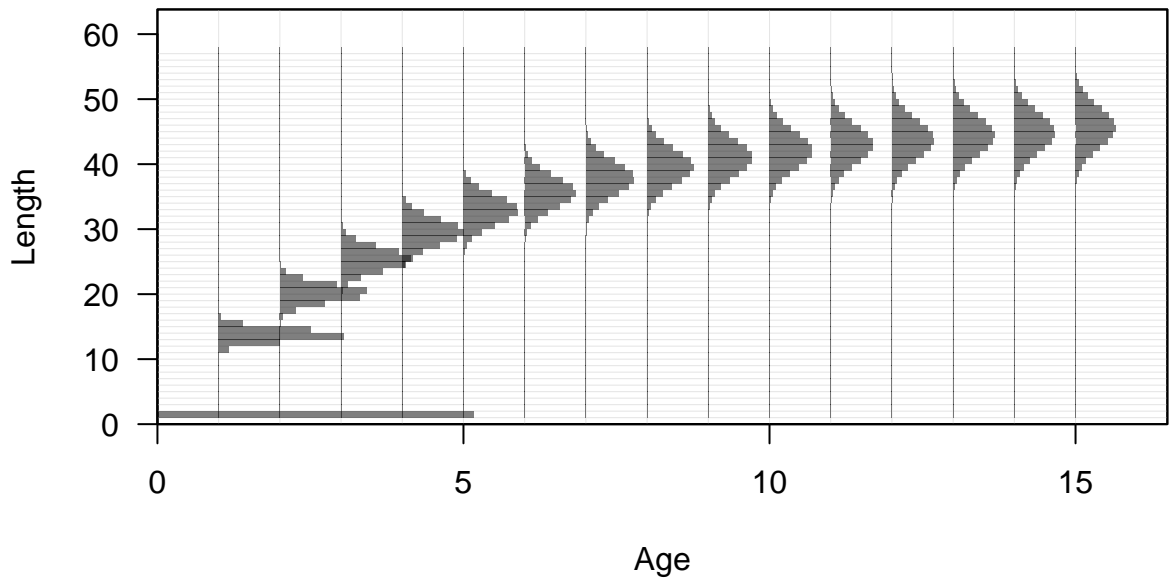
Length (cm, beginning of the year)

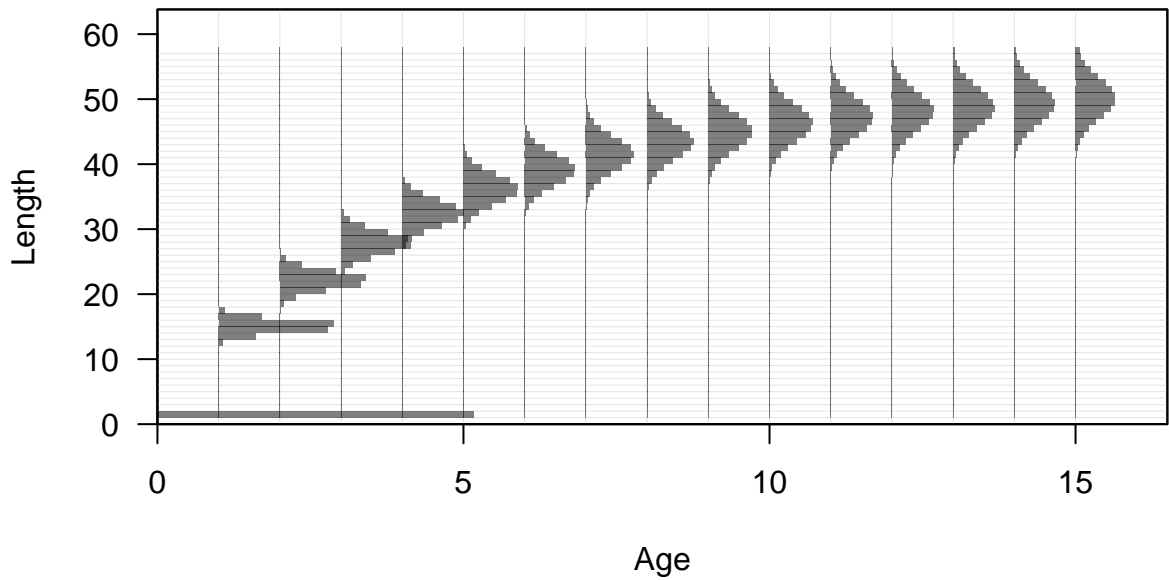


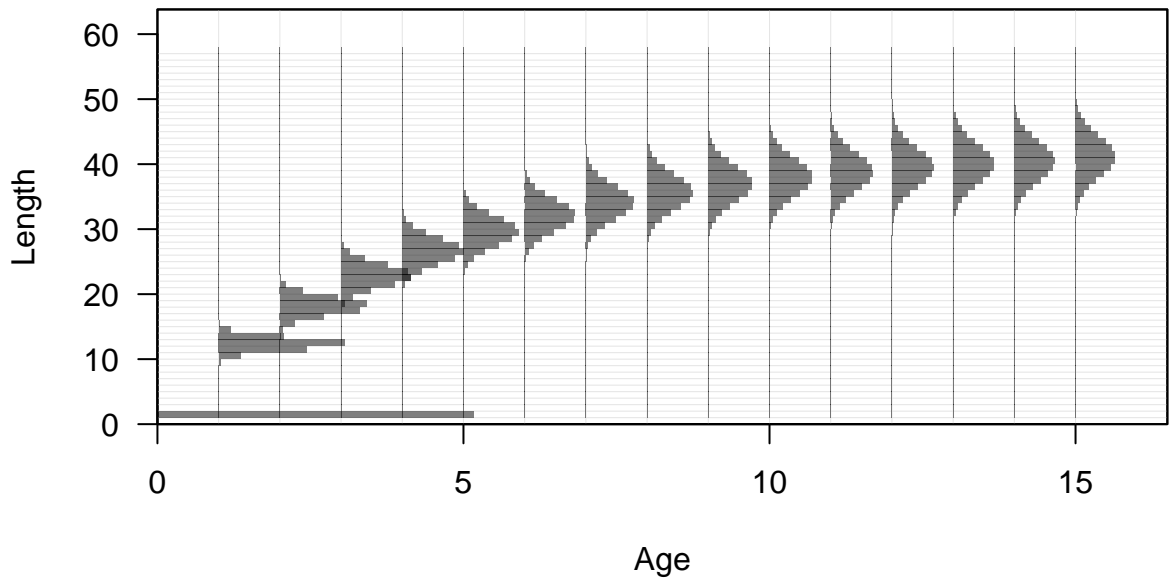


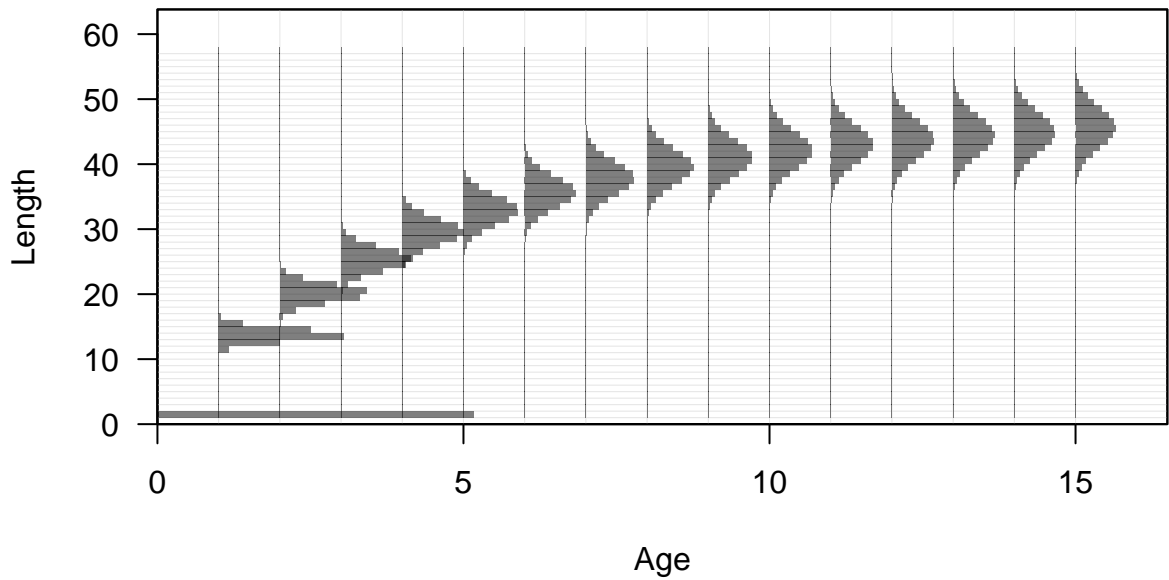


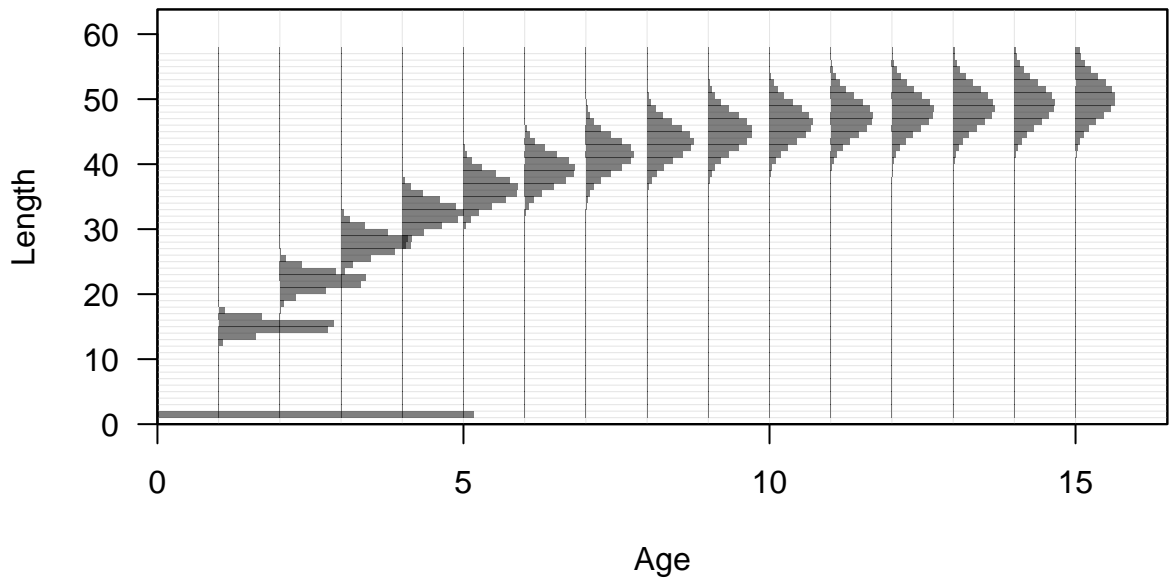


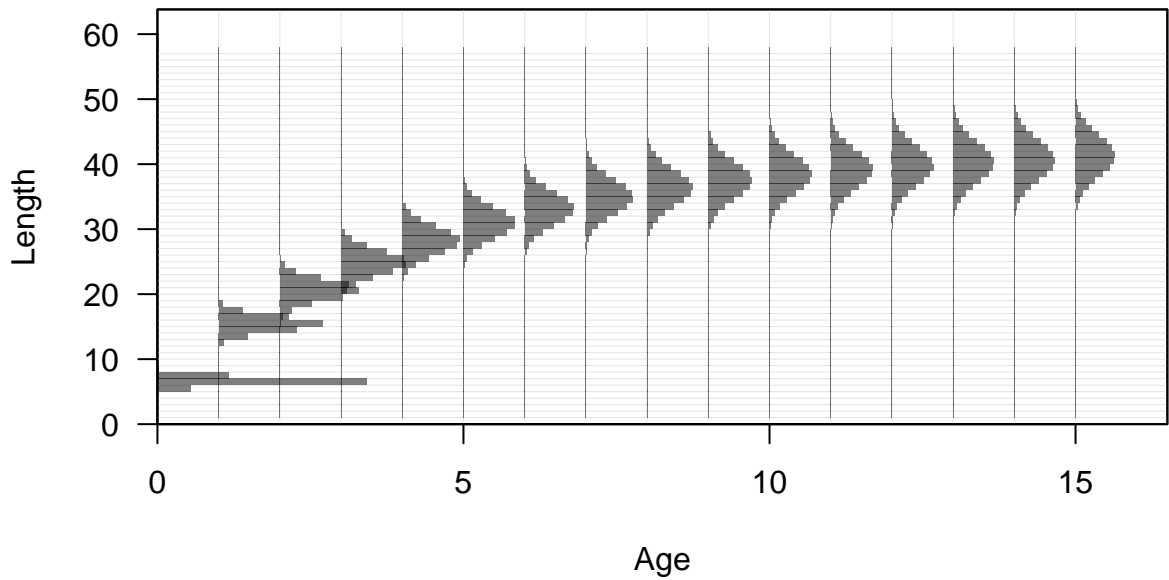


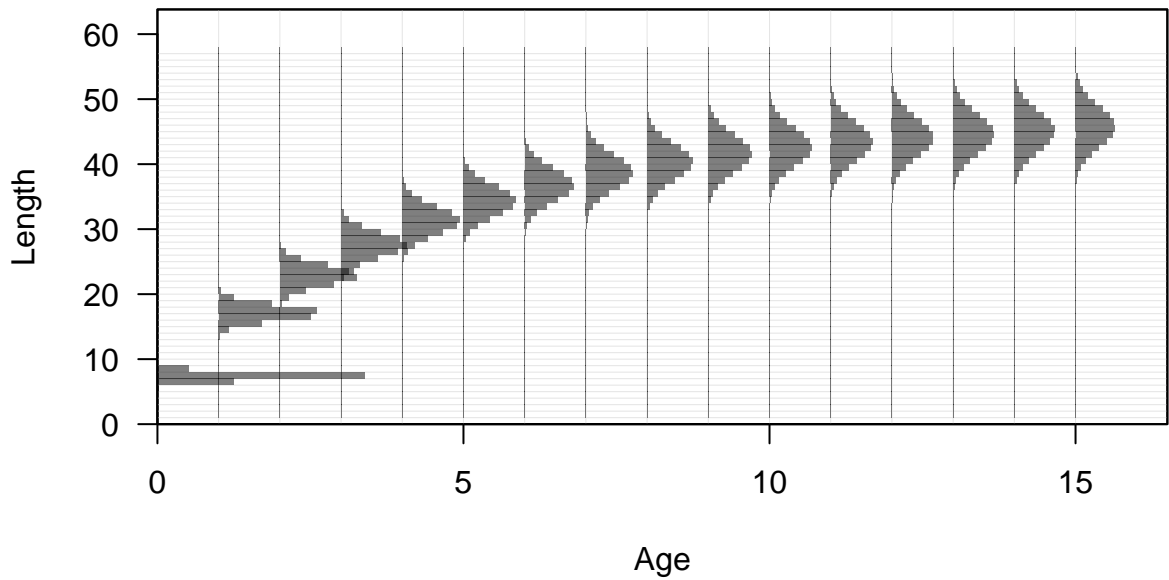


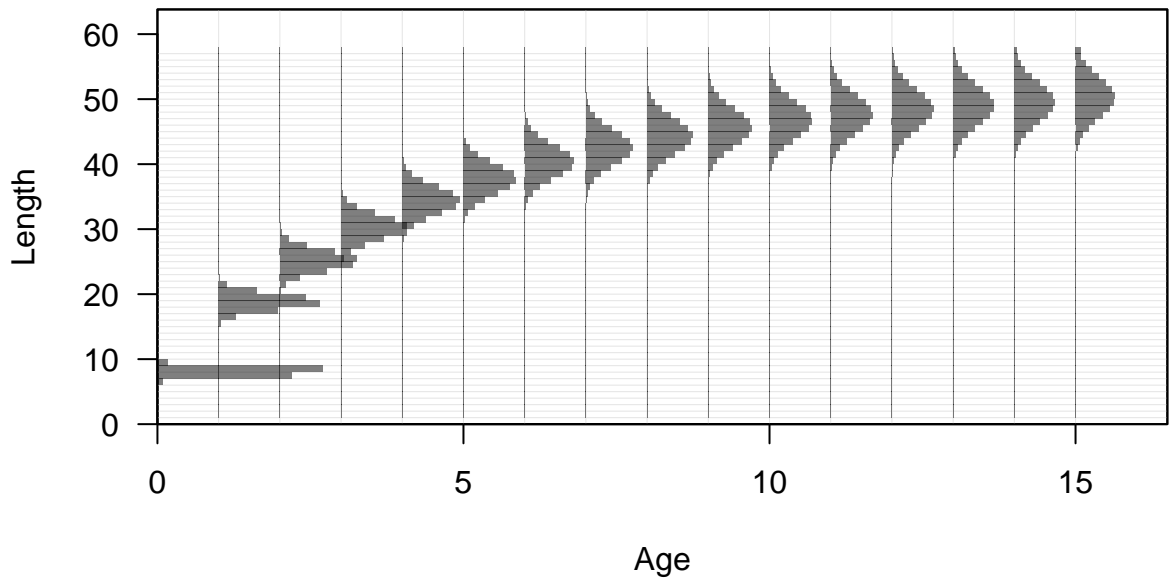


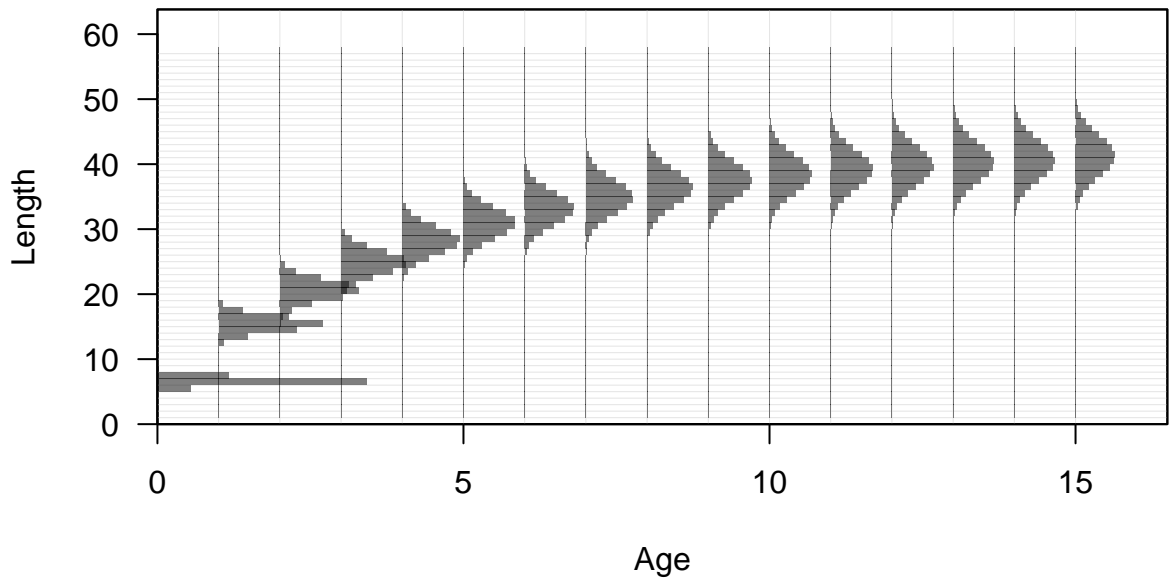


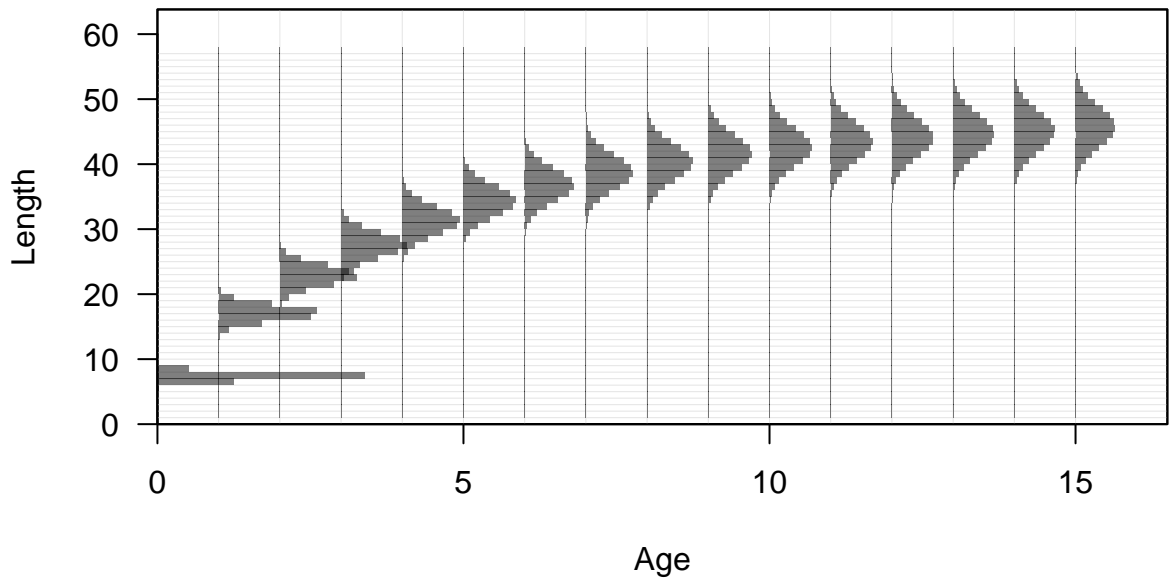


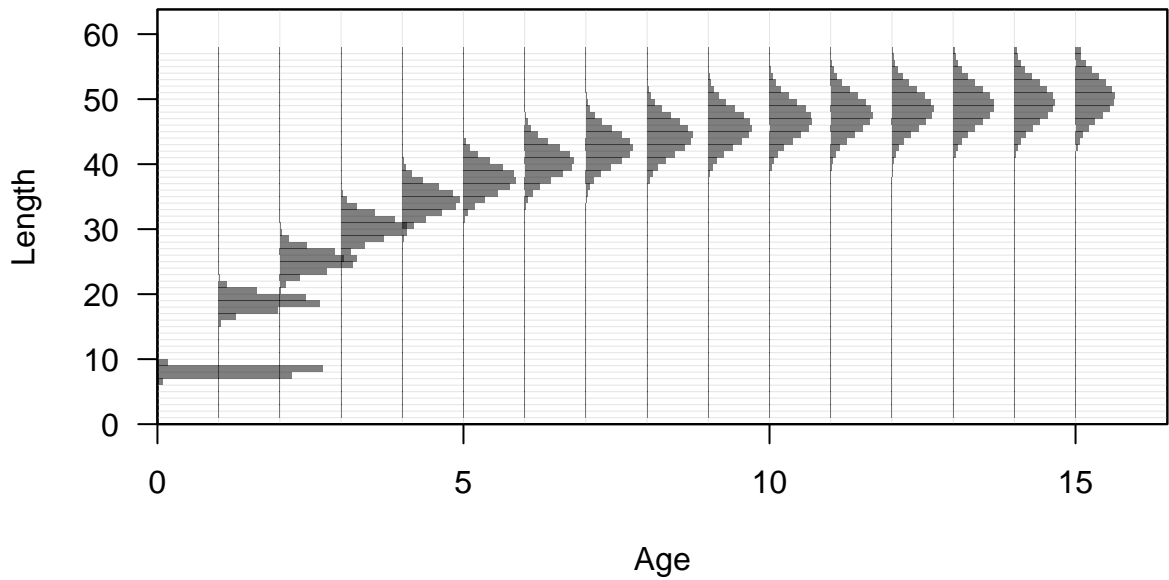








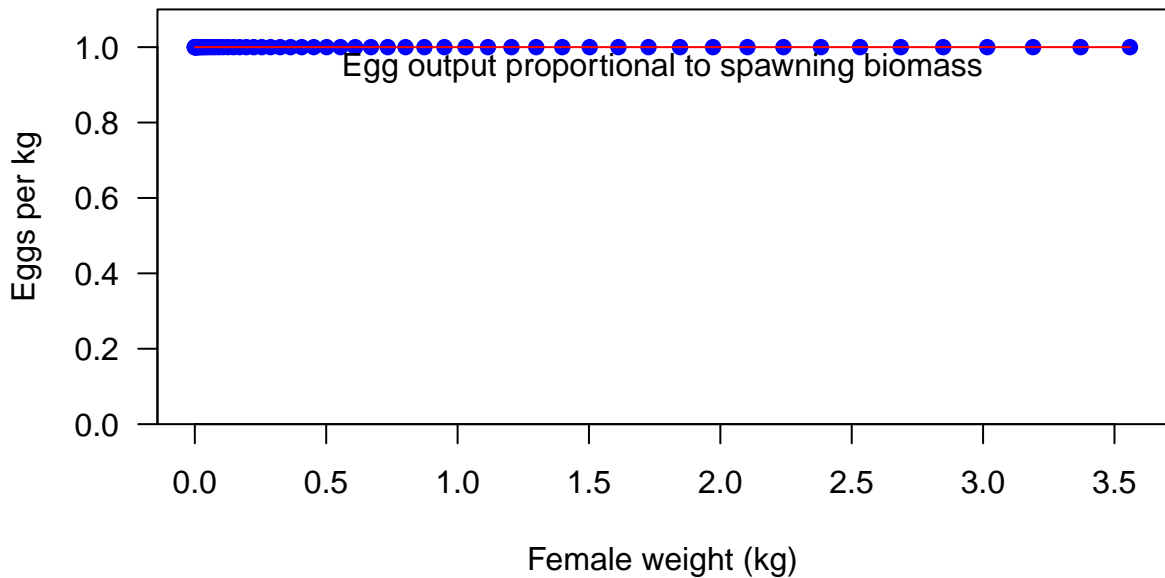












Fecundity



Fecundity



Spawning output

3

2

1

0

0

10

20

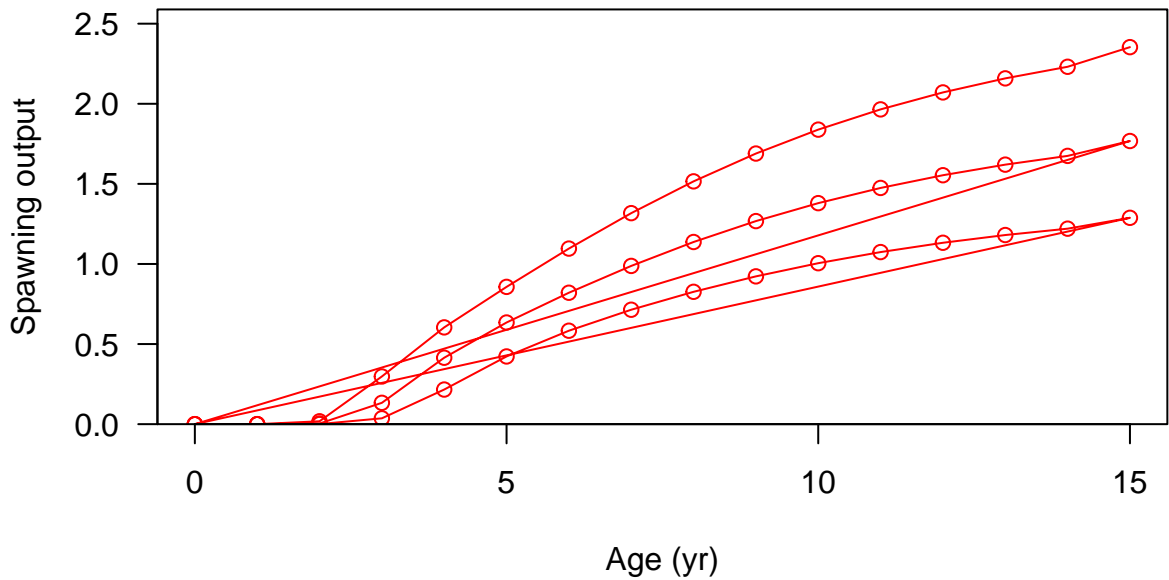
30

40

50

Length (cm)





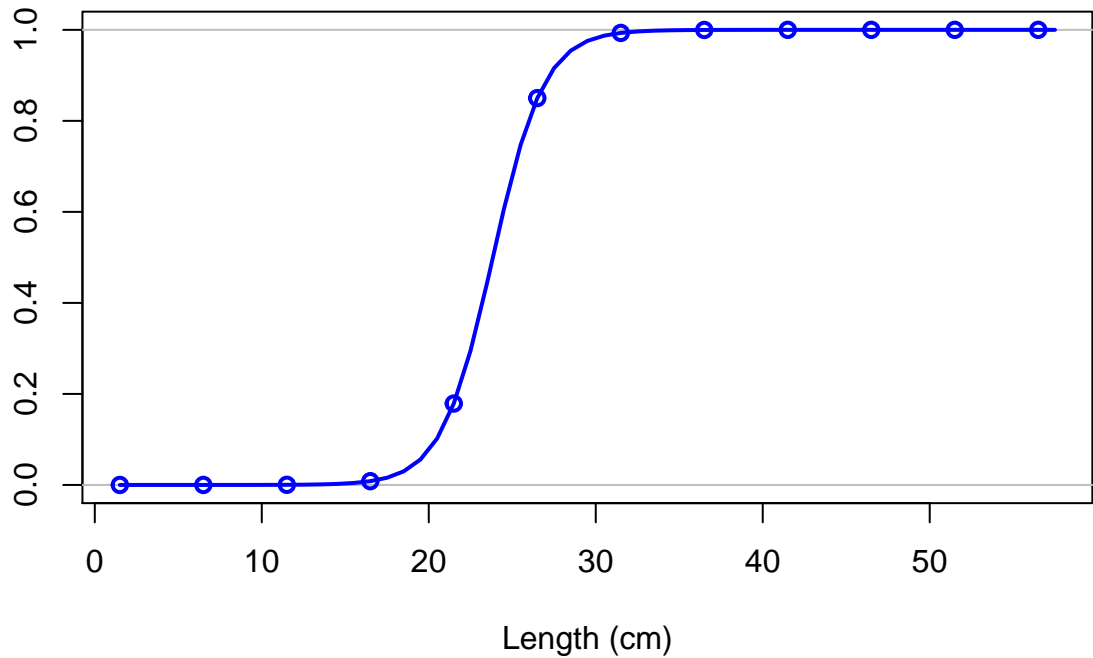
Hermaphroditism transition rate



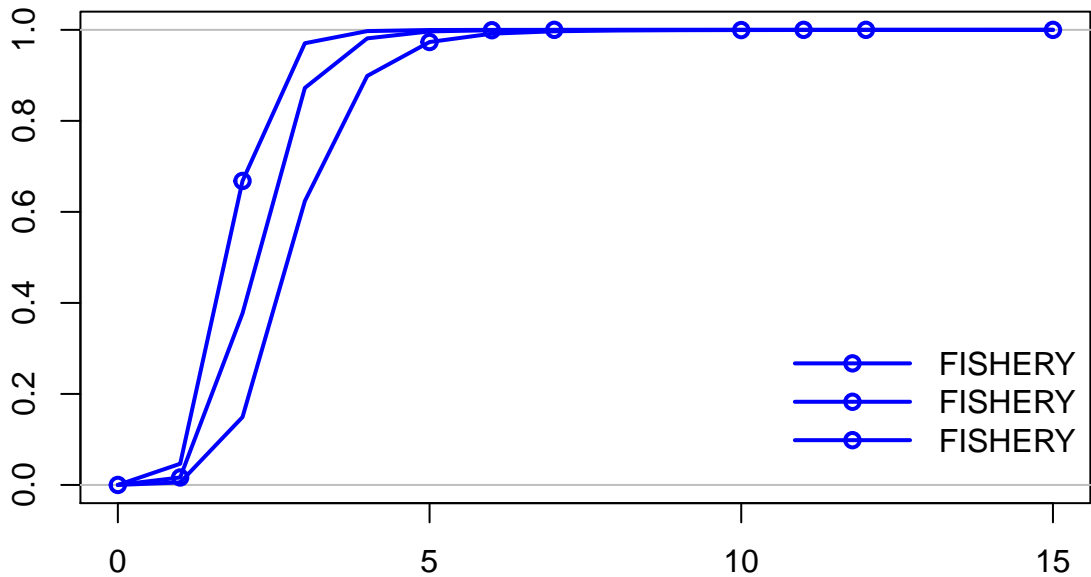
Fraction females by age at equilibrium



Selectivity

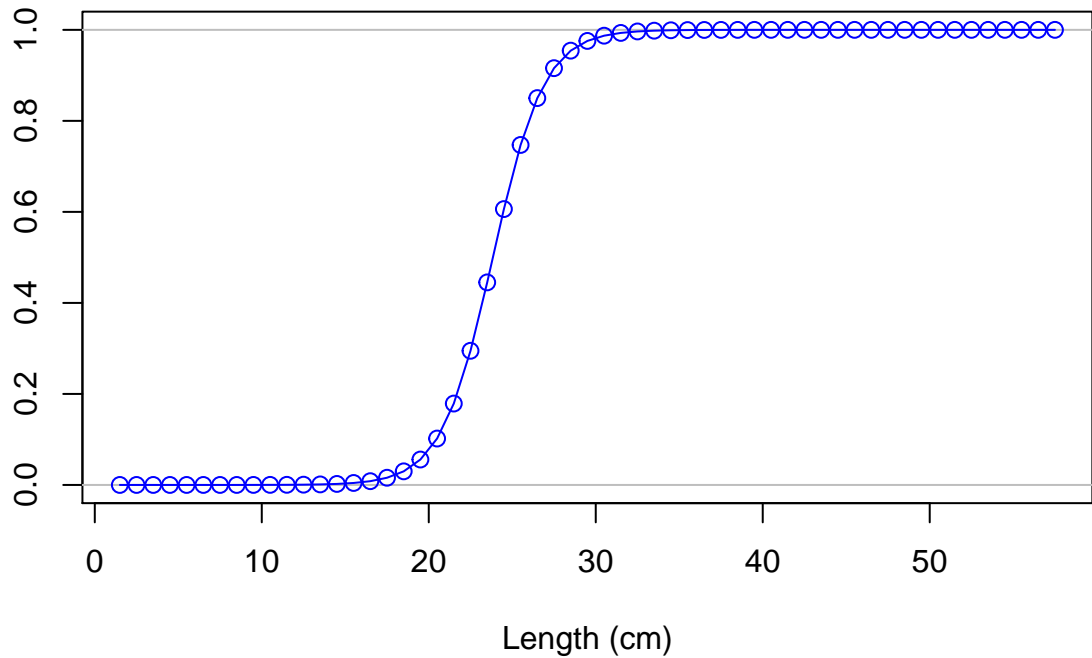


Selectivity

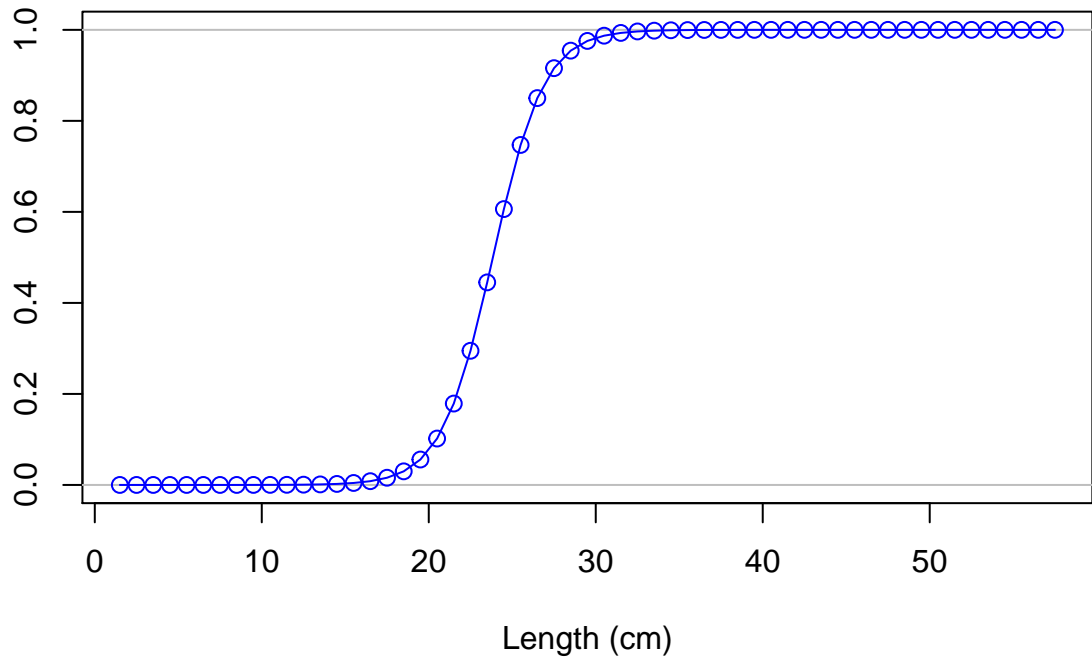


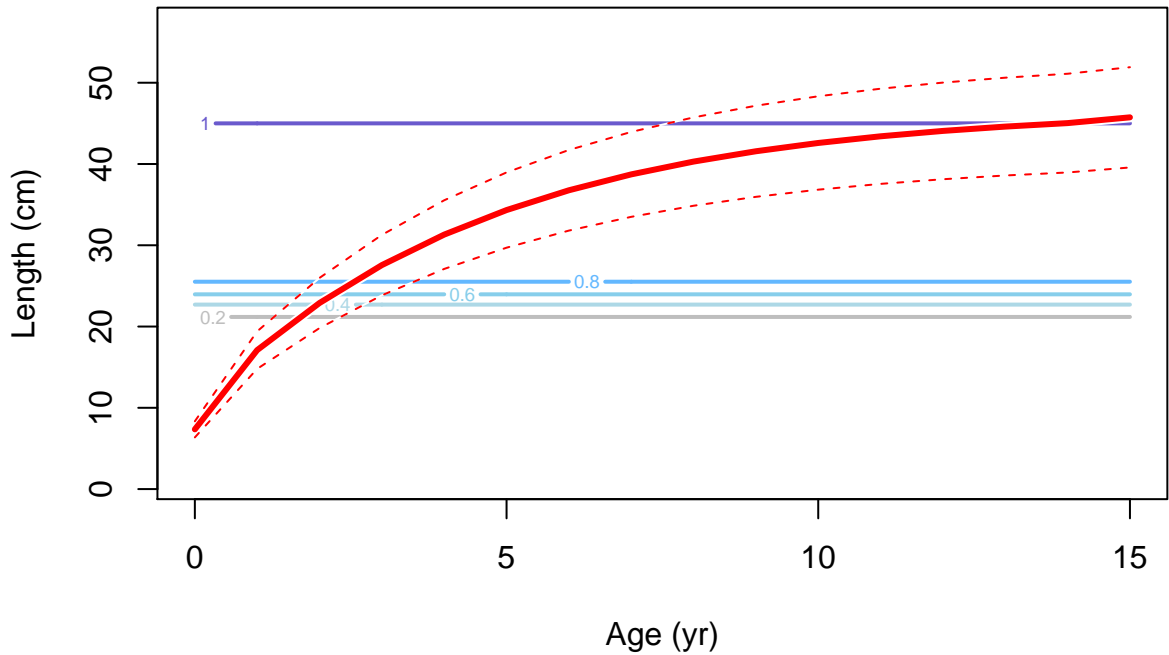
Age (yr)

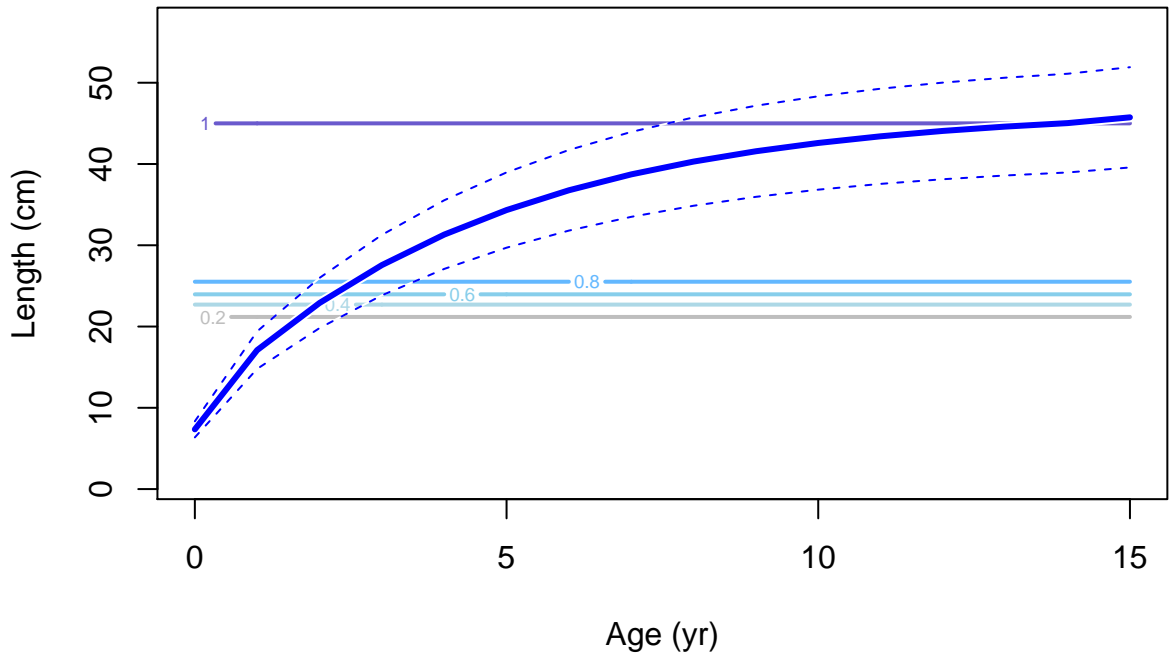
Selectivity



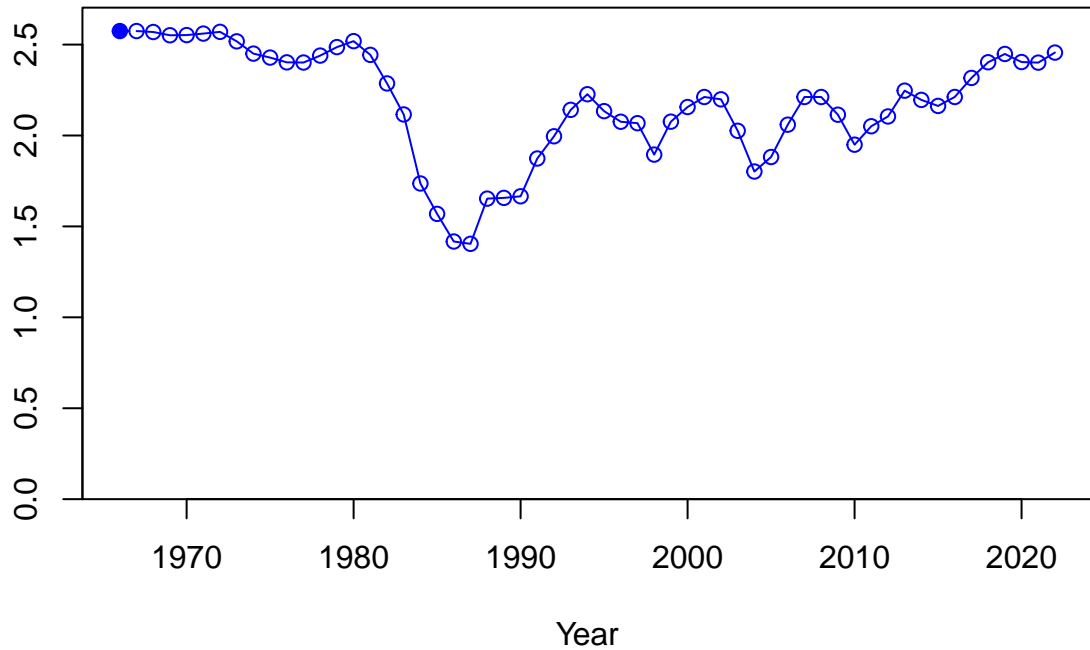
Selectivity



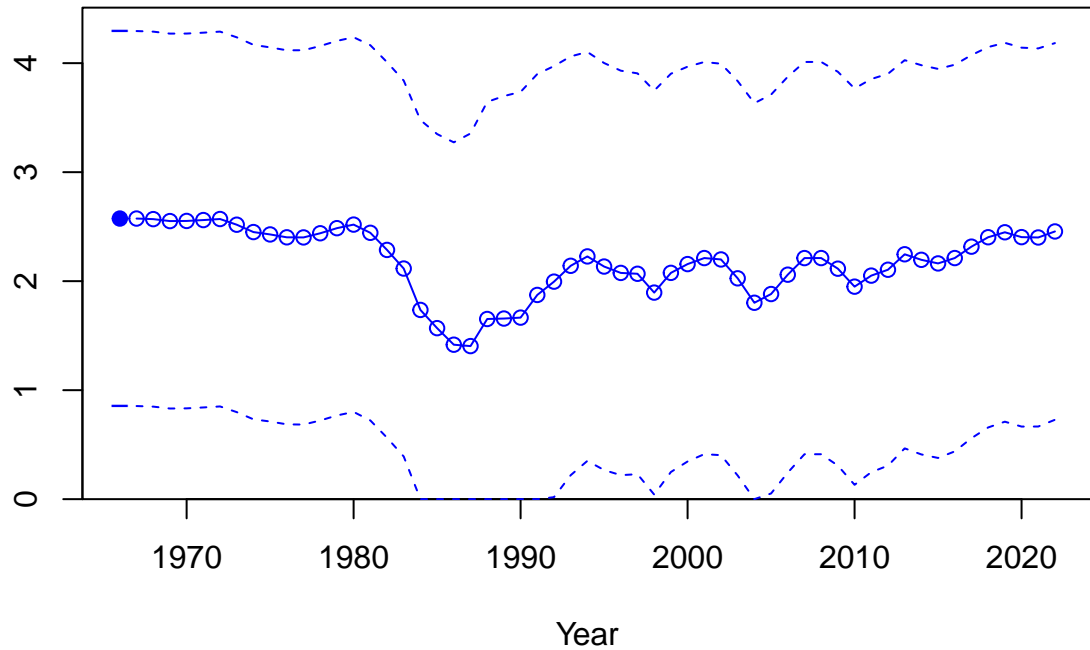




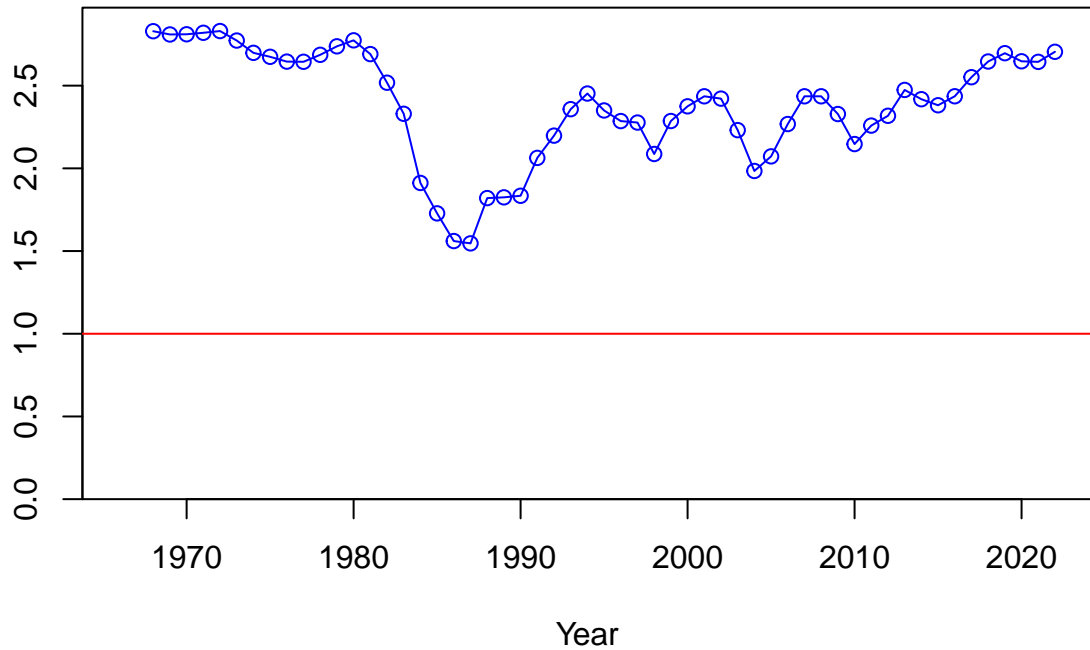
Spawning biomass (mt)



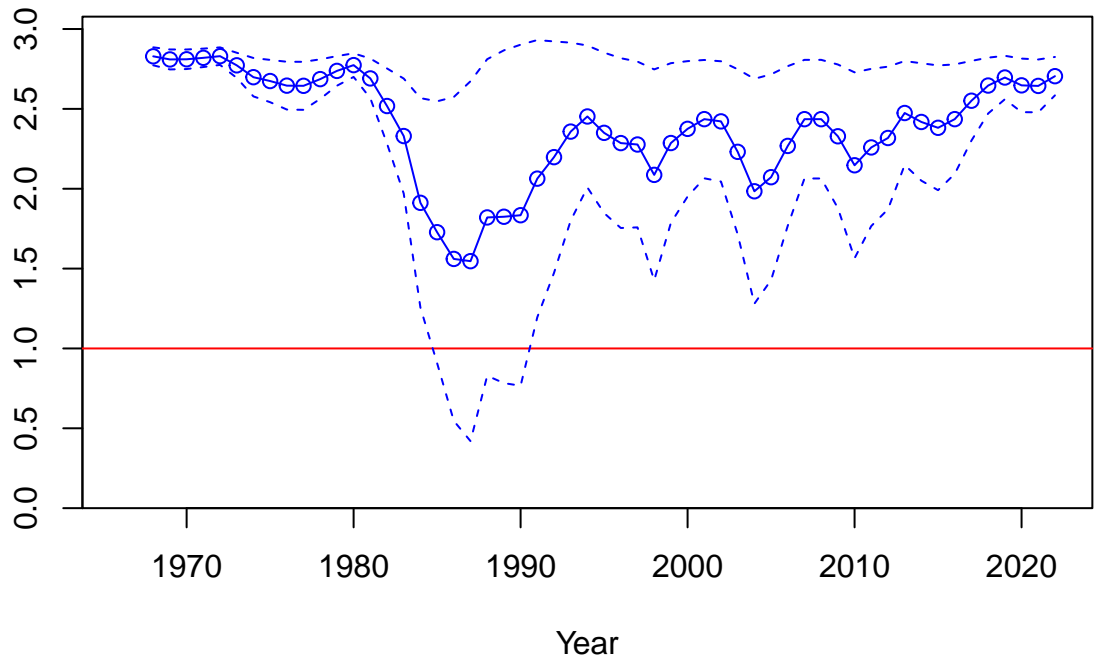
Spawning biomass (mt)

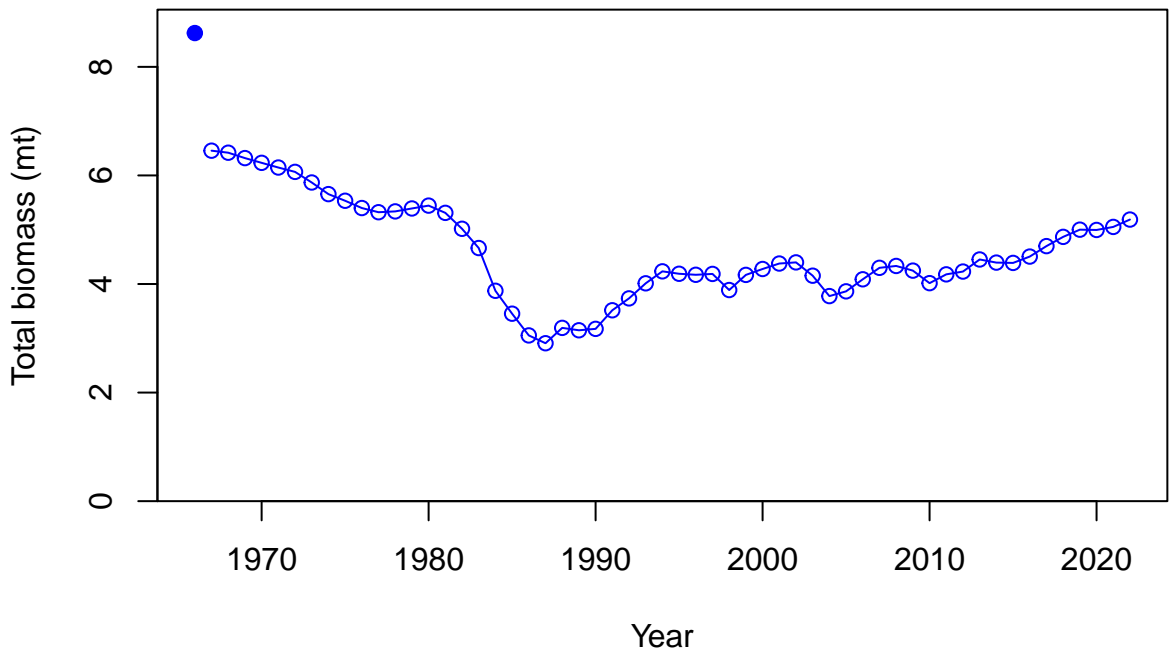


Relative spawning biomass: B/B_{MSY}

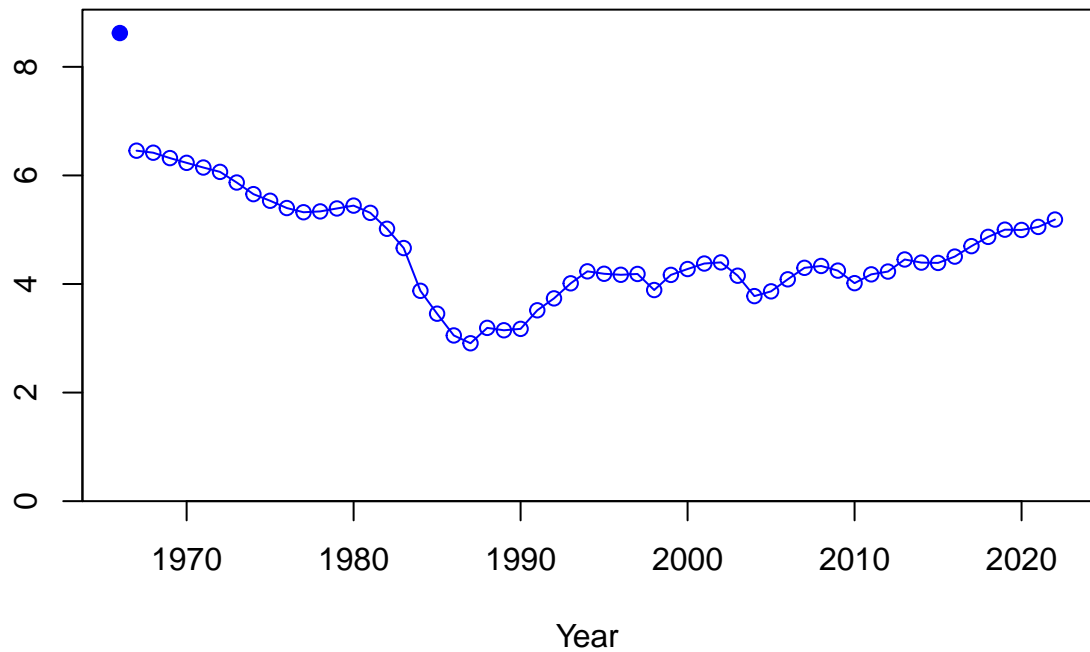


Relative spawning biomass: B/B_MSY

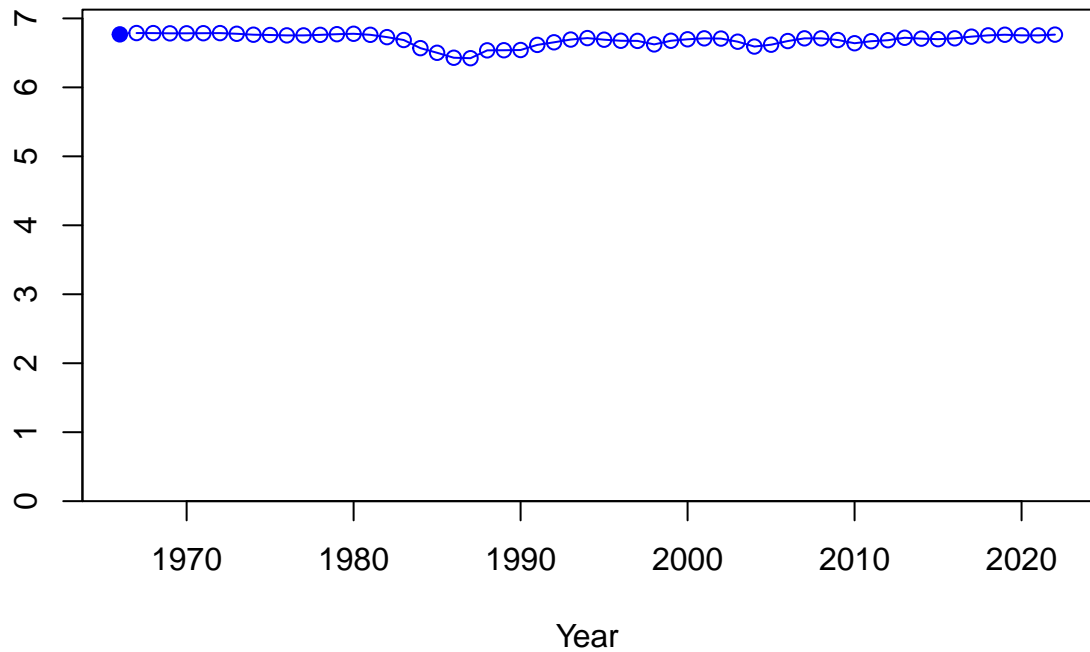




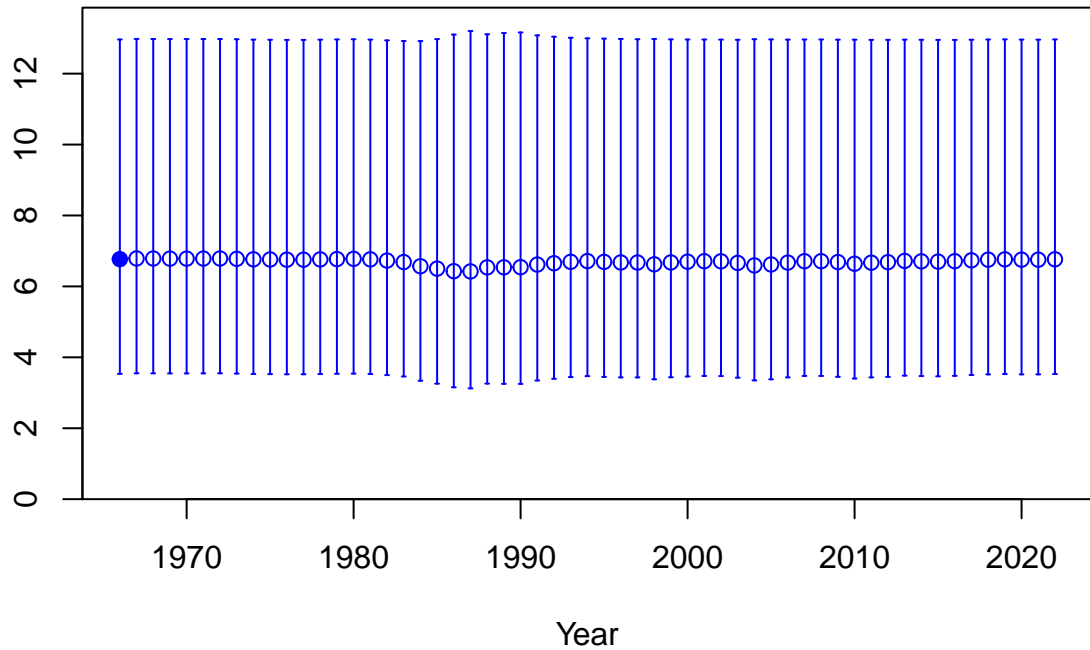
Summary biomass (mt)



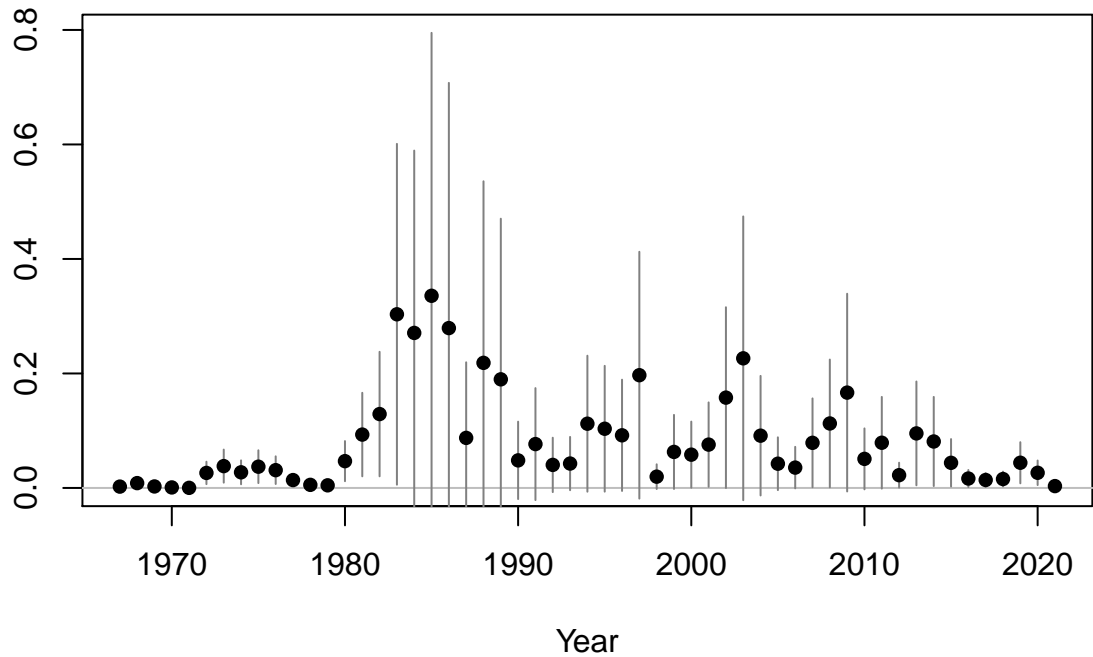
Age-0 recruits (1,000s)

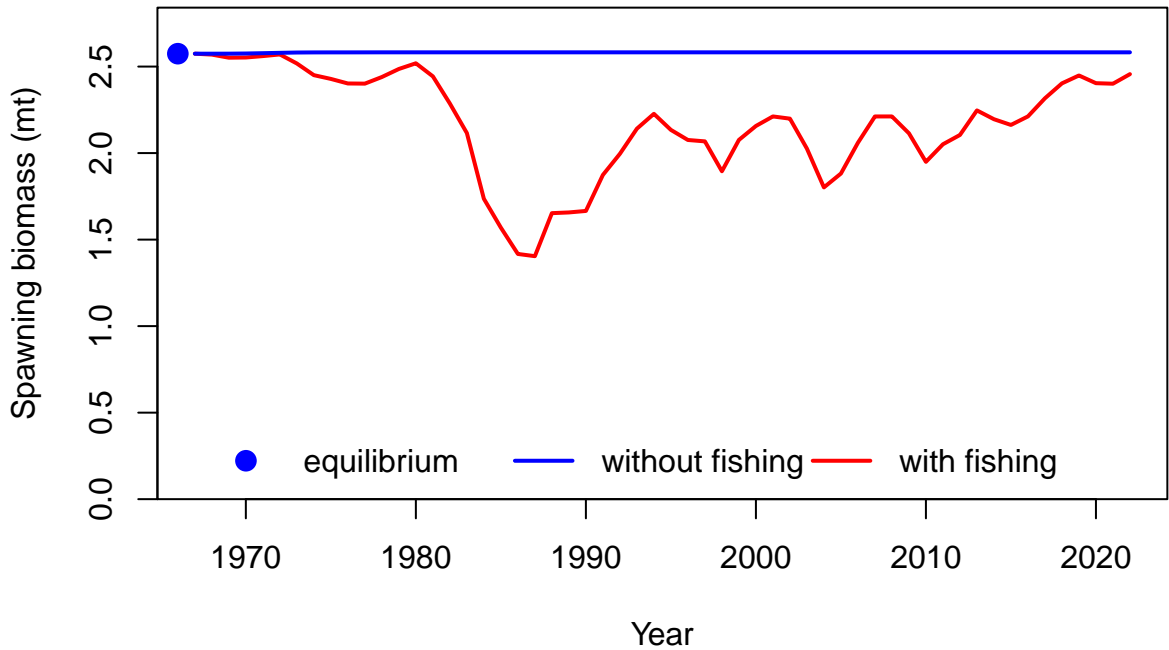


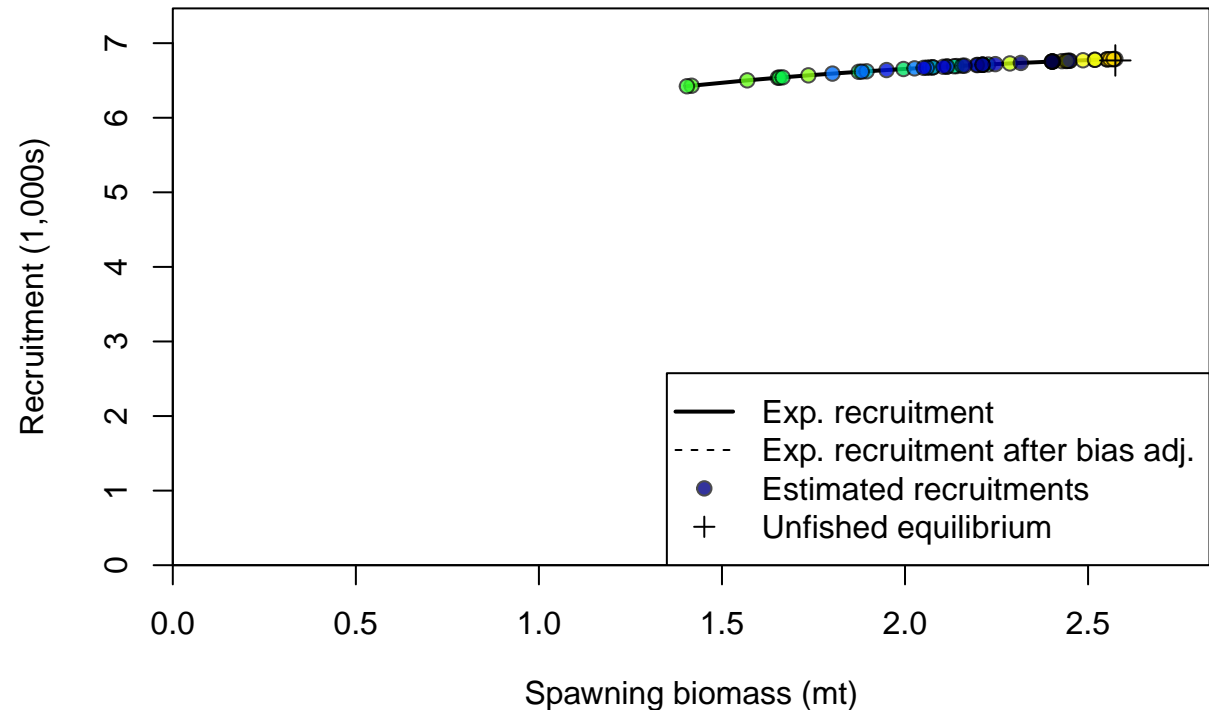
Age-0 recruits (1,000s)

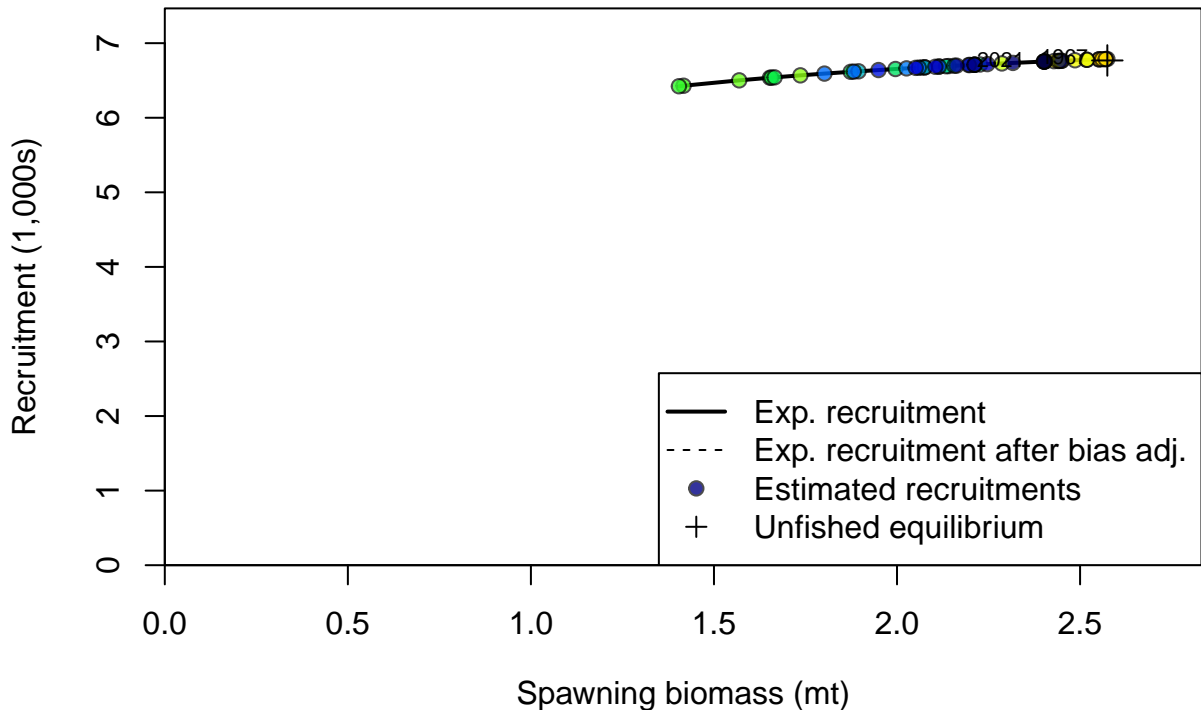


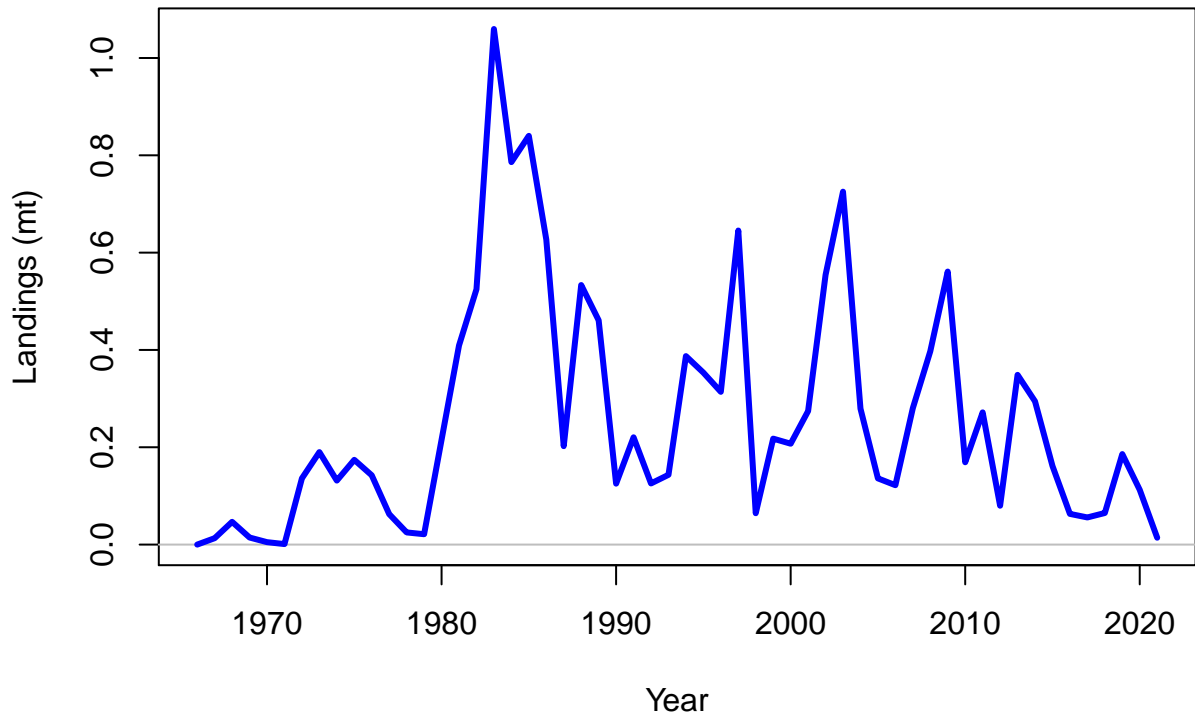
Summary Fishing Mortality

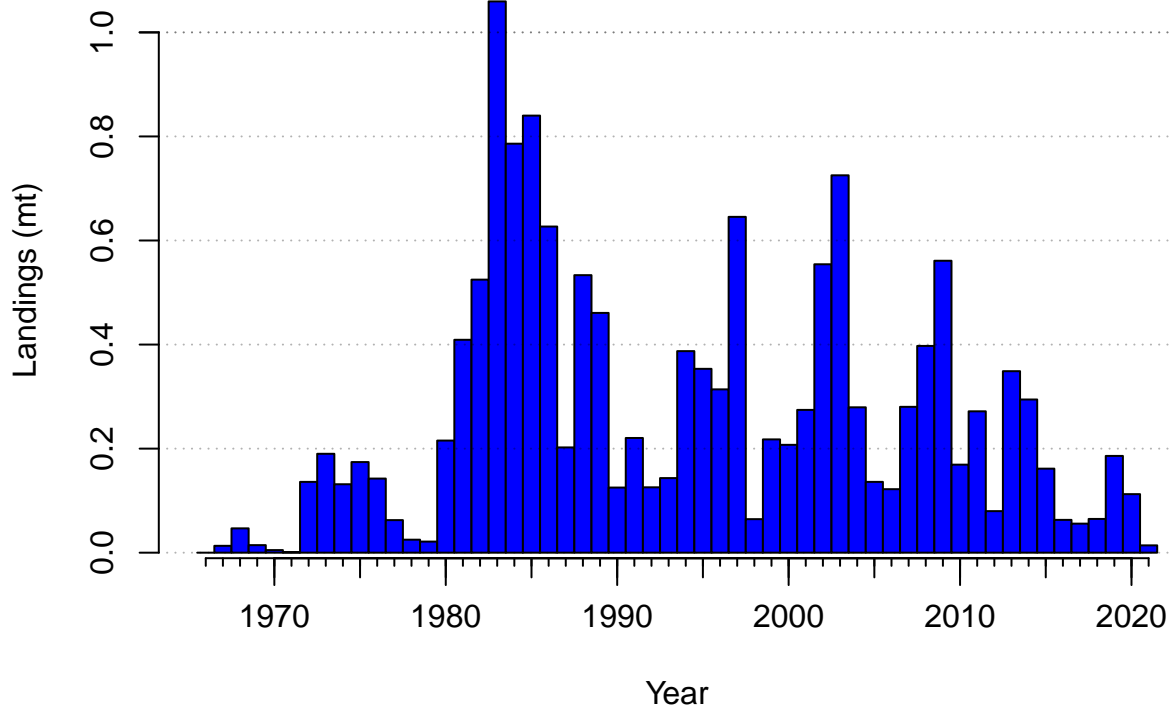


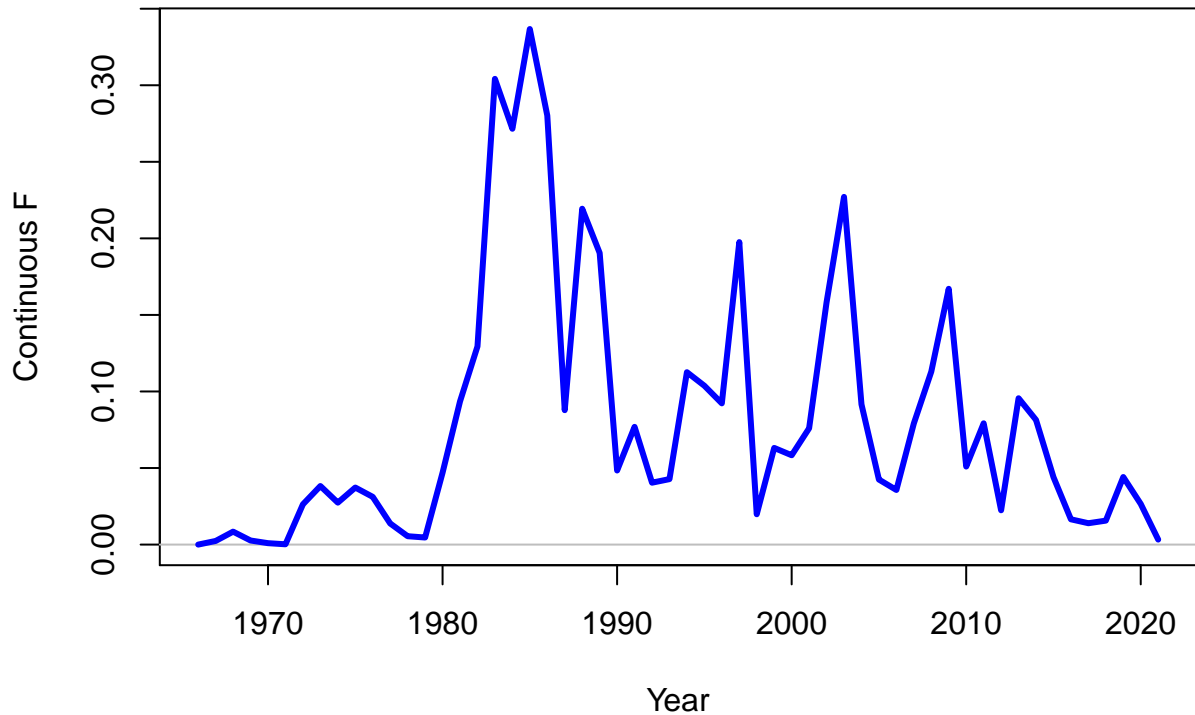




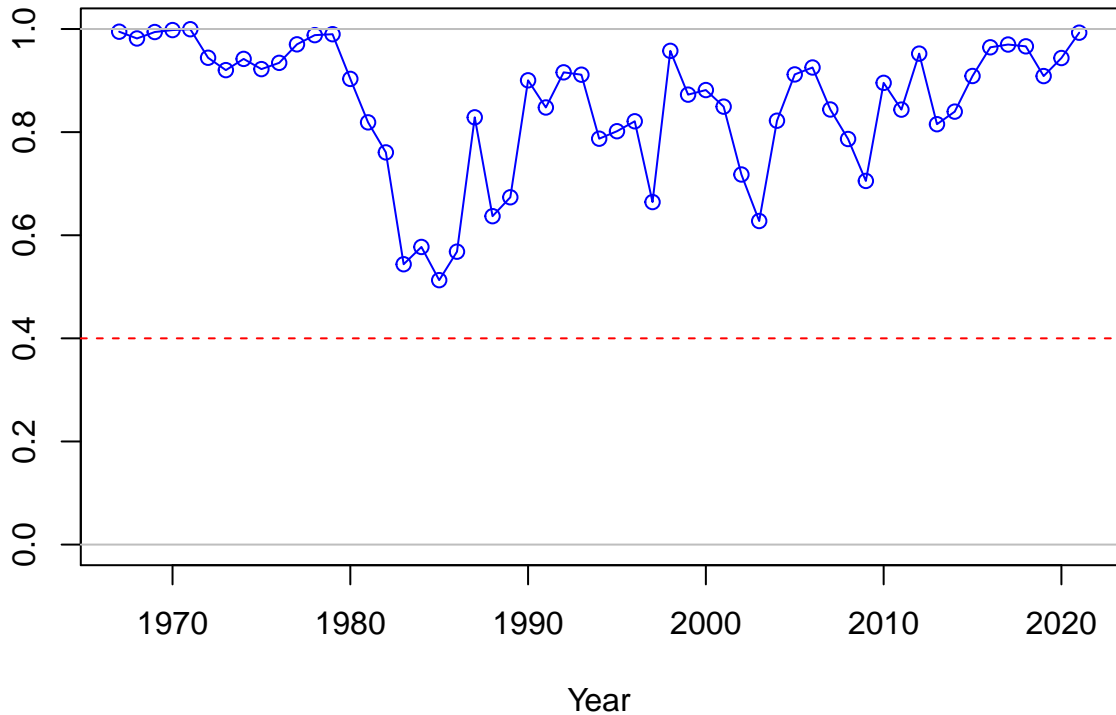




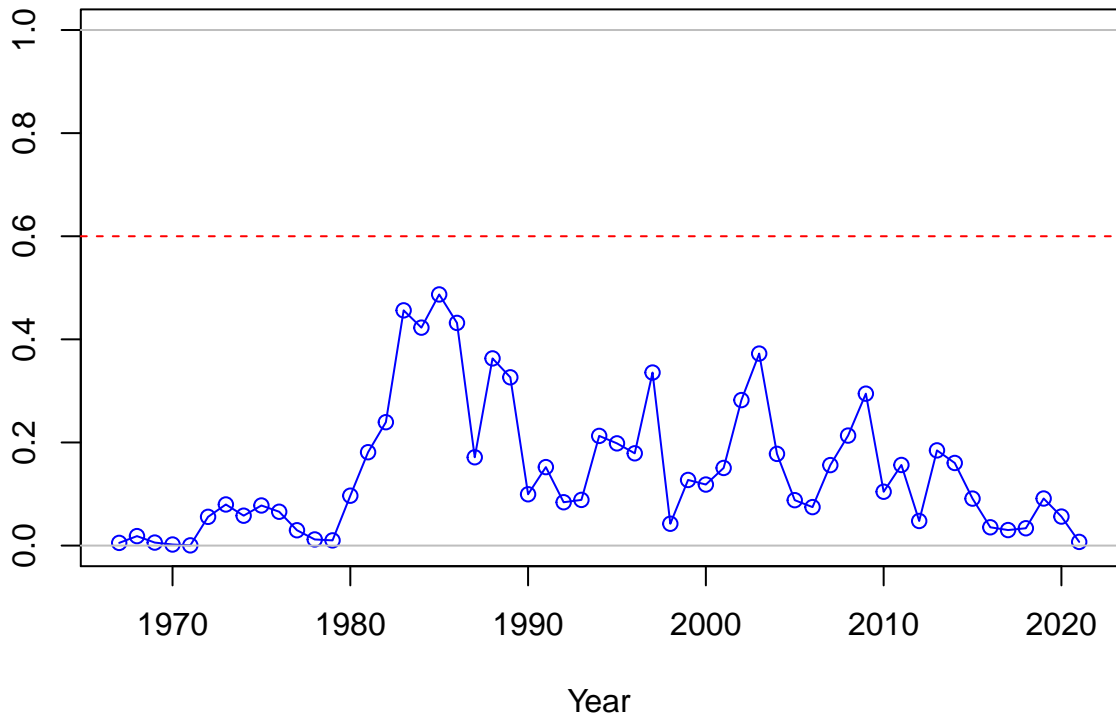




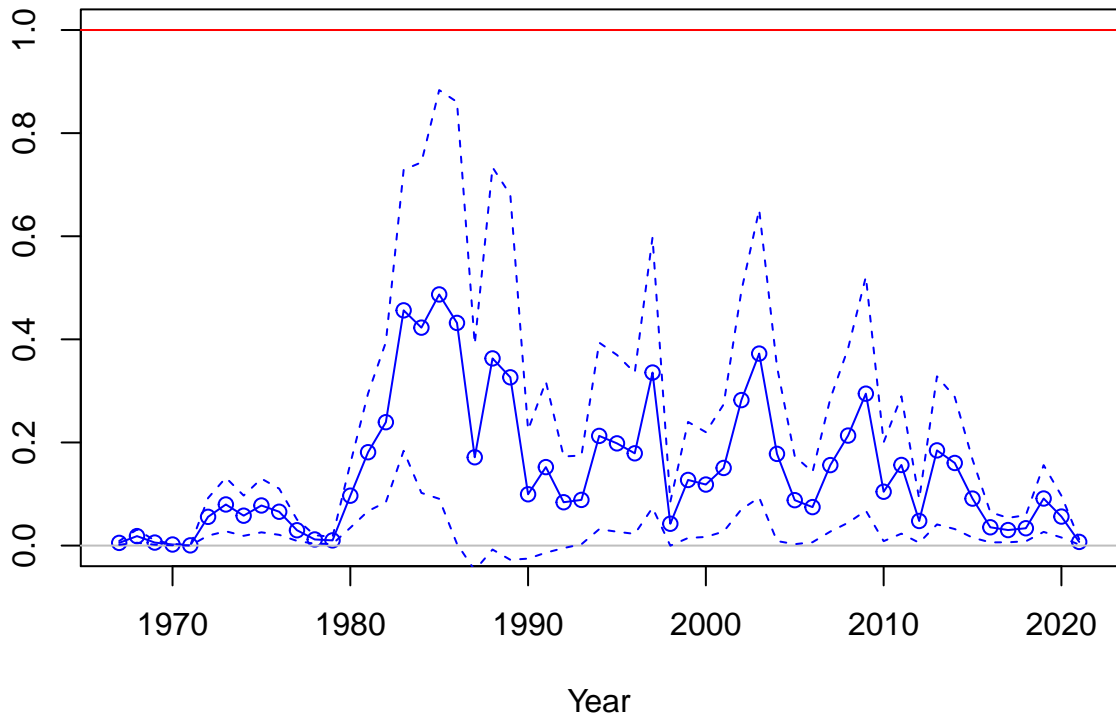
SPR



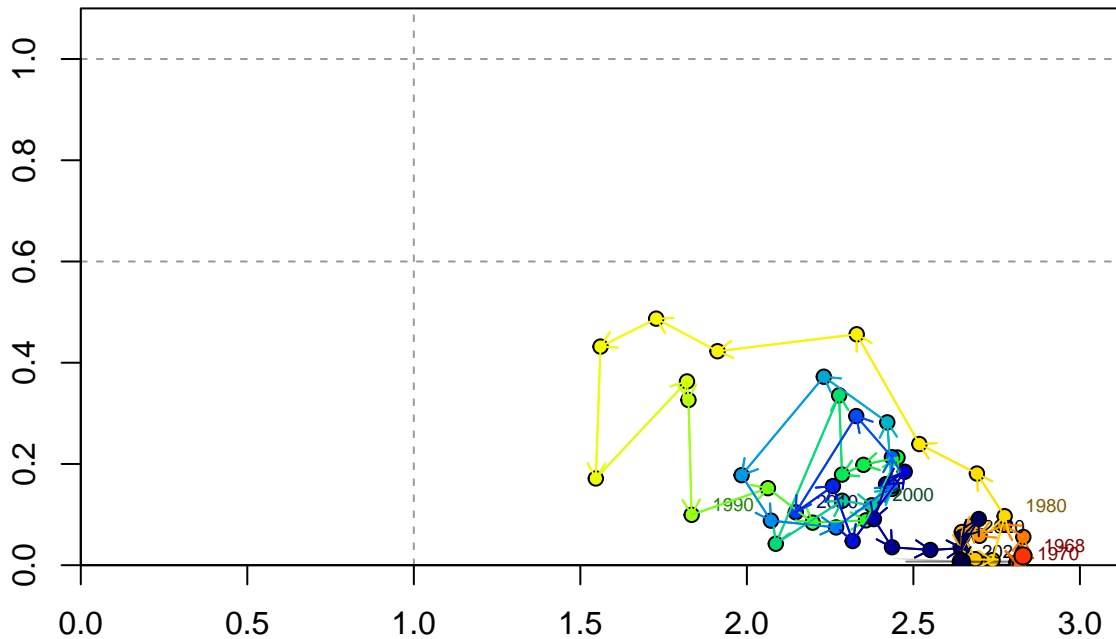
1-SPR



Fishing intensity: 1-SPR



Fishing intensity: 1-SPR



Index

1.5
1.0
0.5
0.0

2016

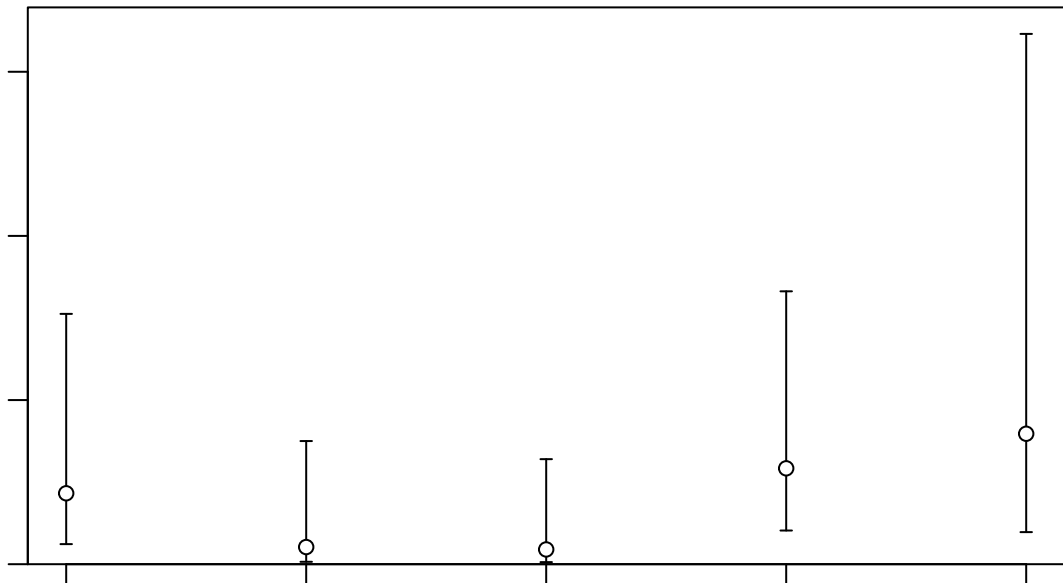
2017

2018

2019

2020

Year



Index

1.5
1.0
0.5
0.0

2016

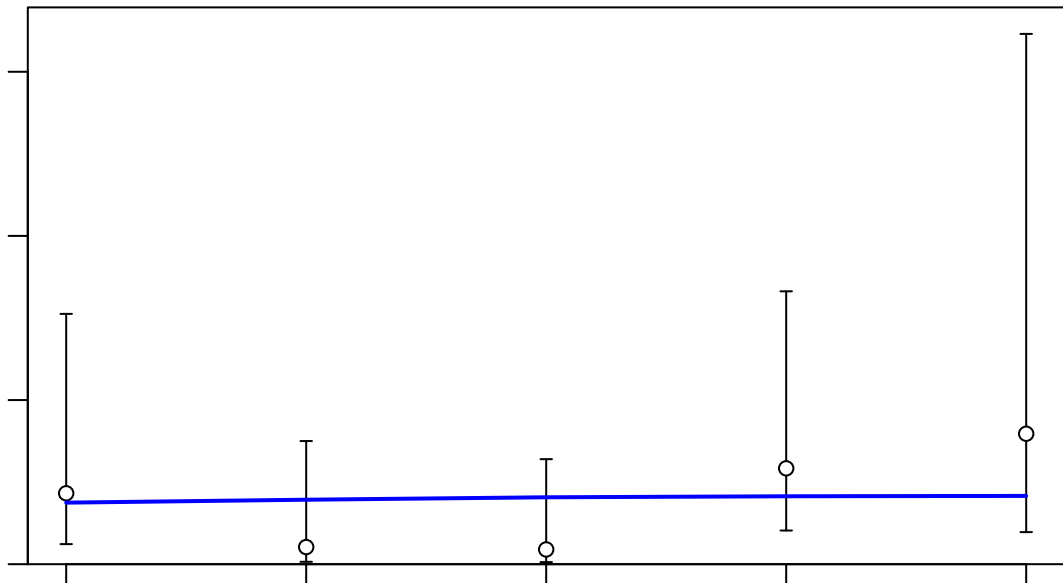
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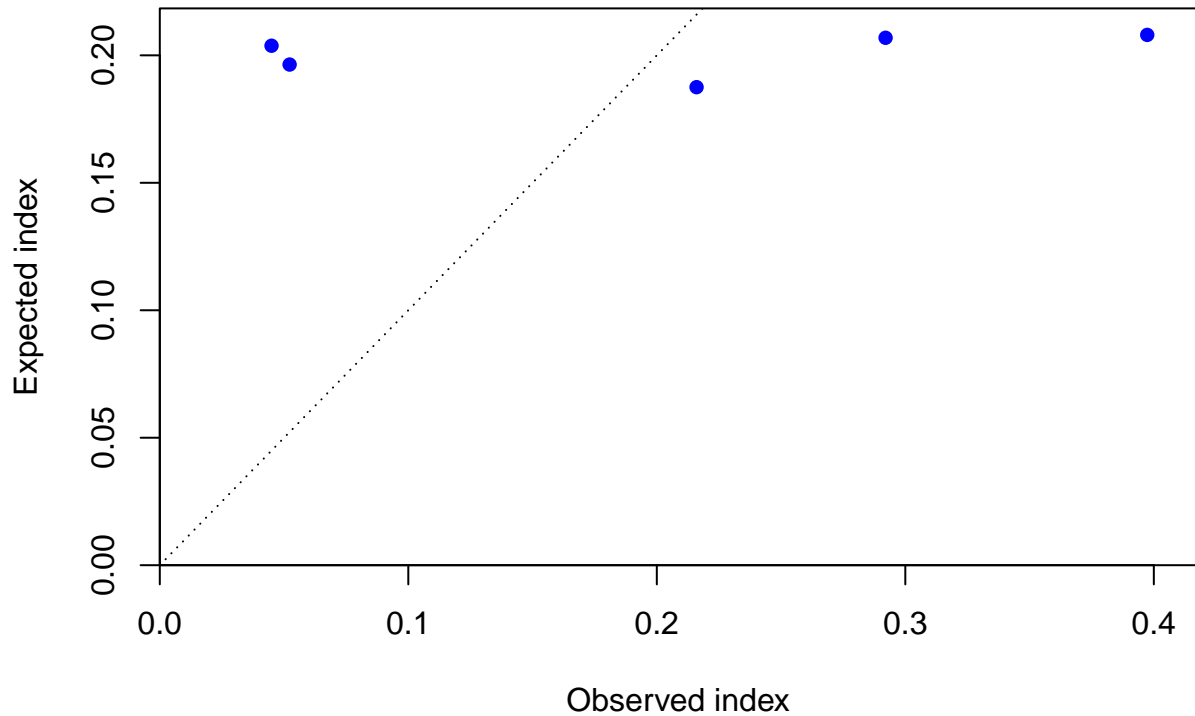
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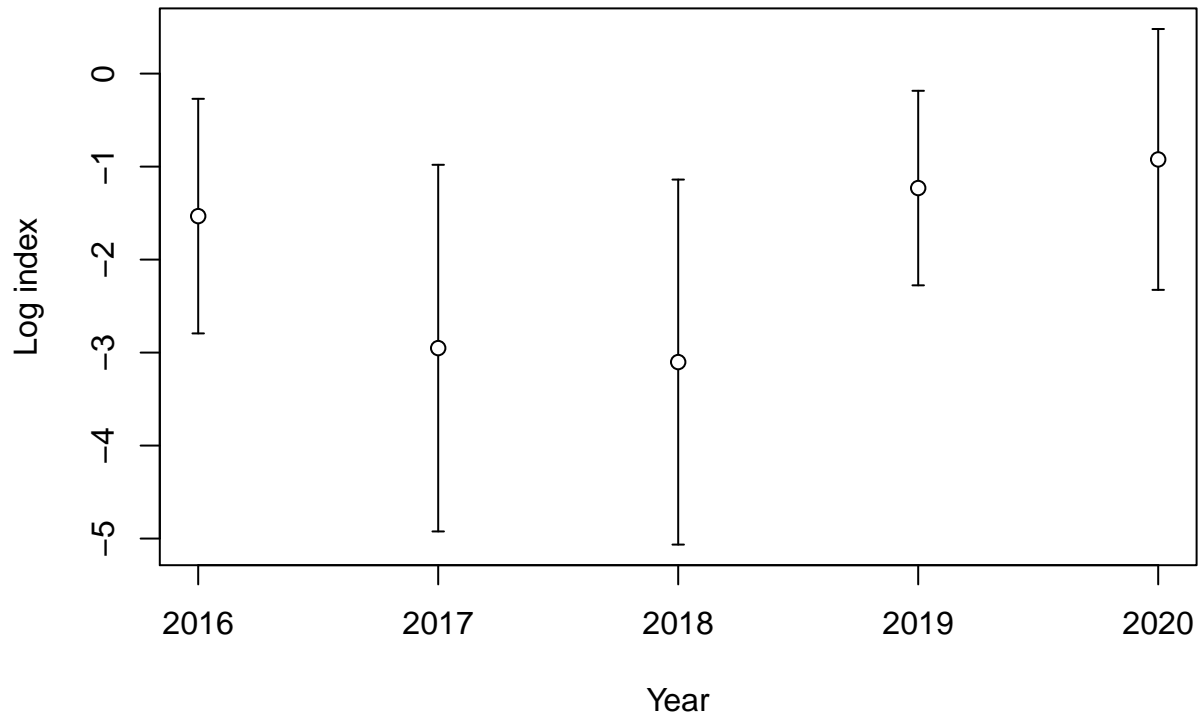
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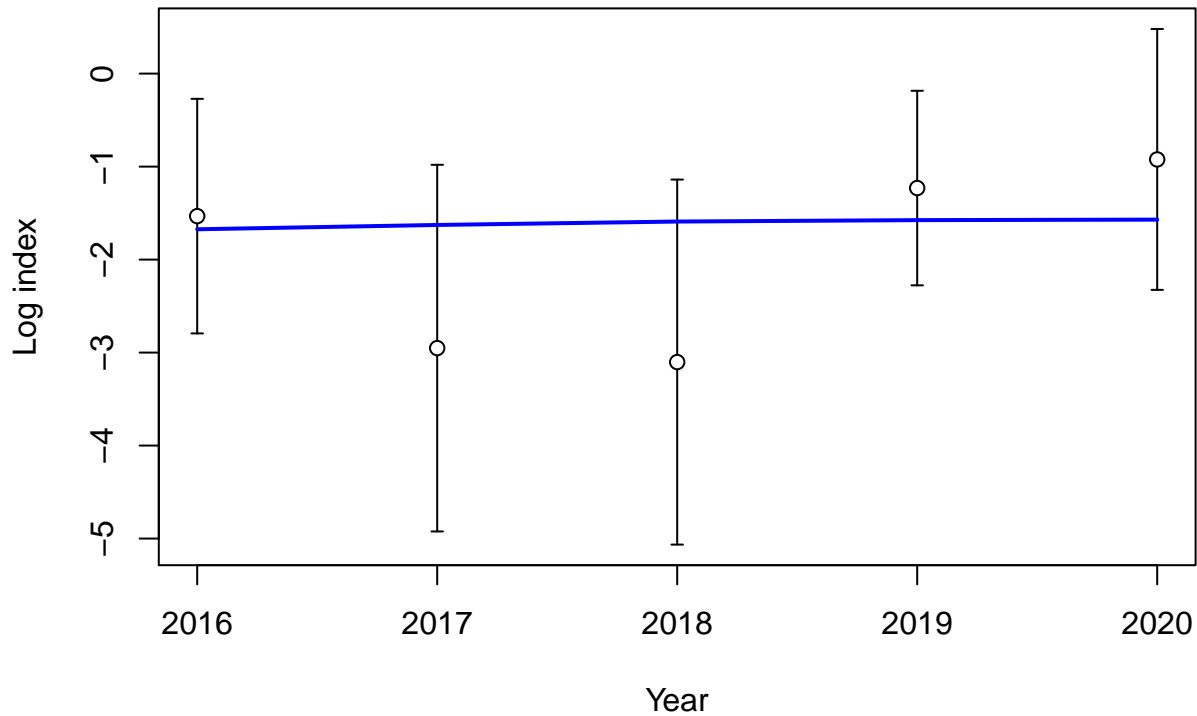
2020

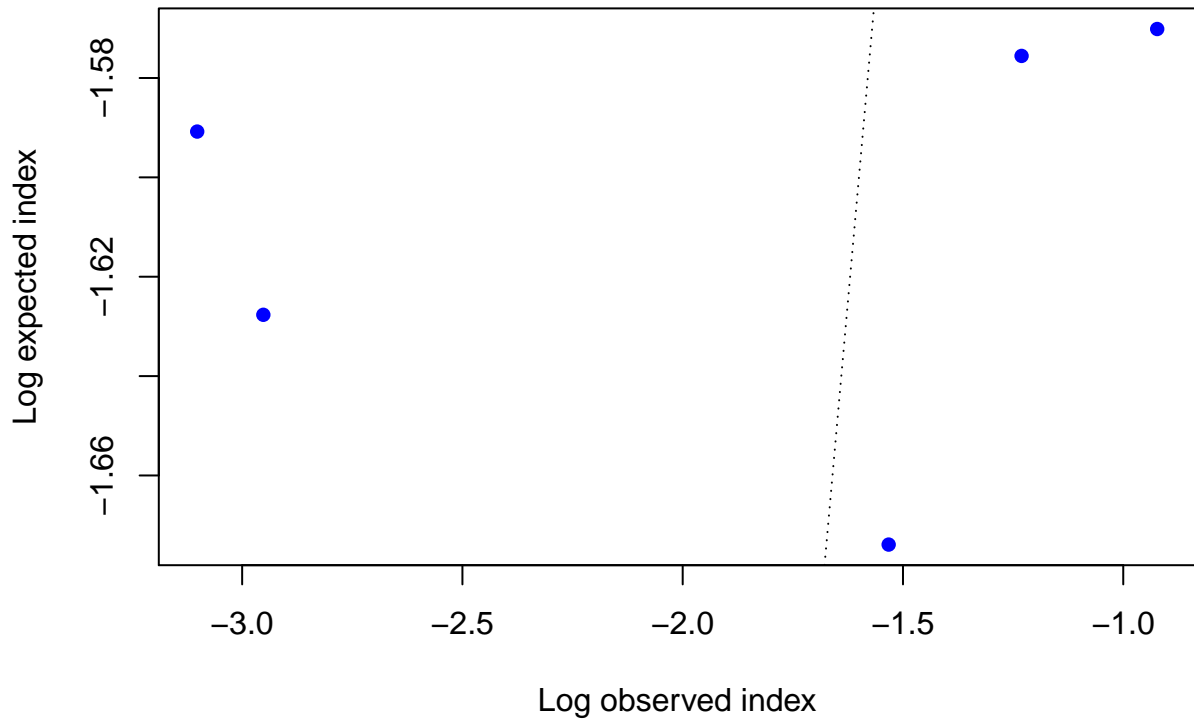
Year



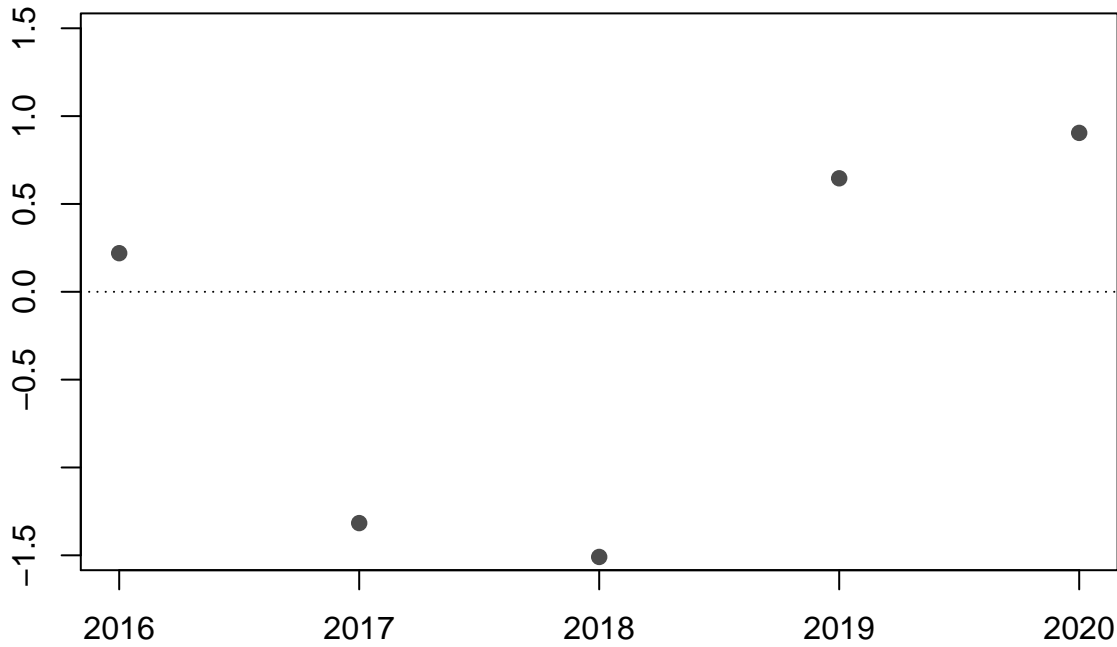






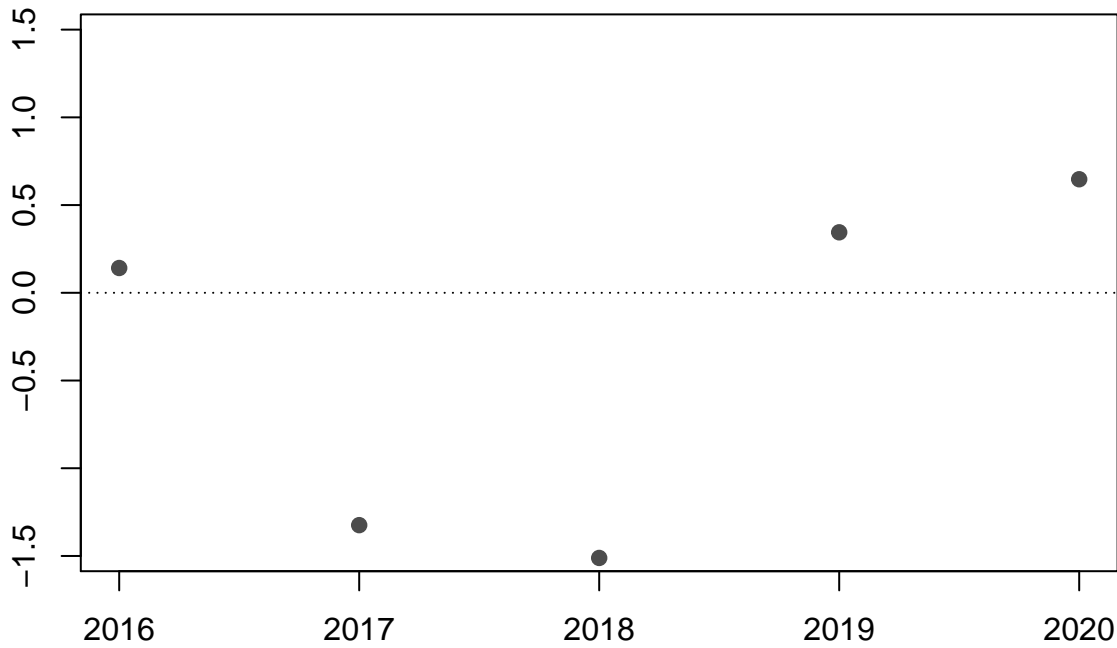


Residual

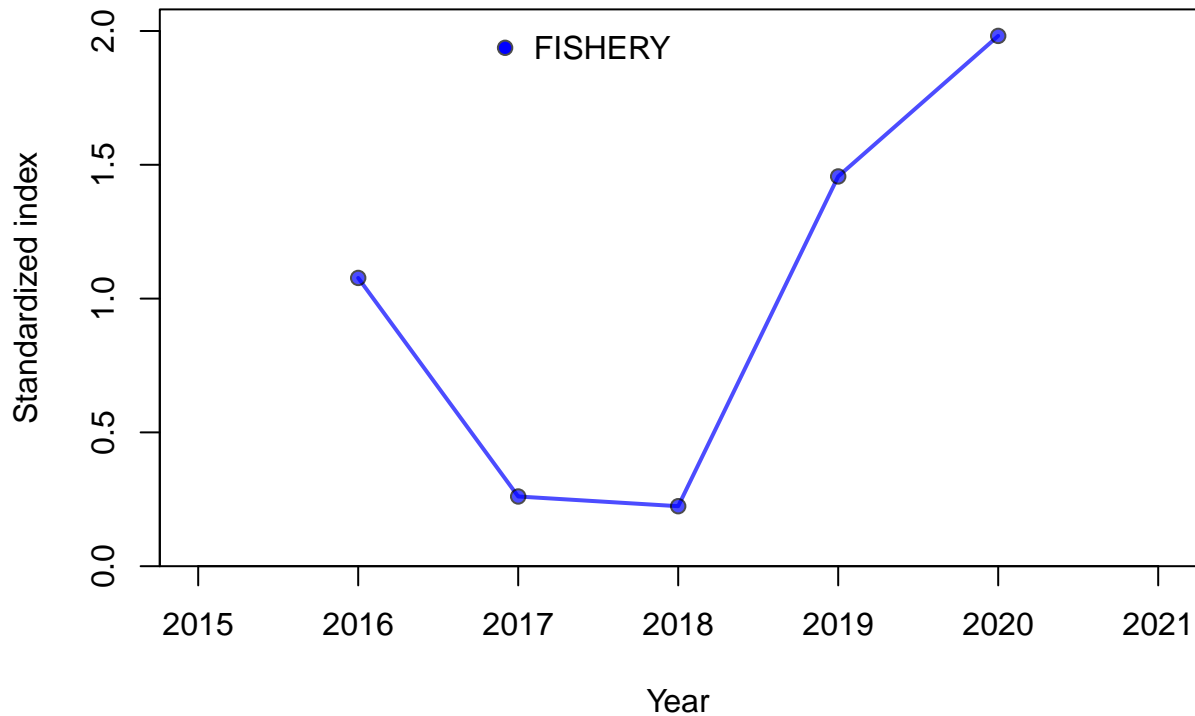


Year

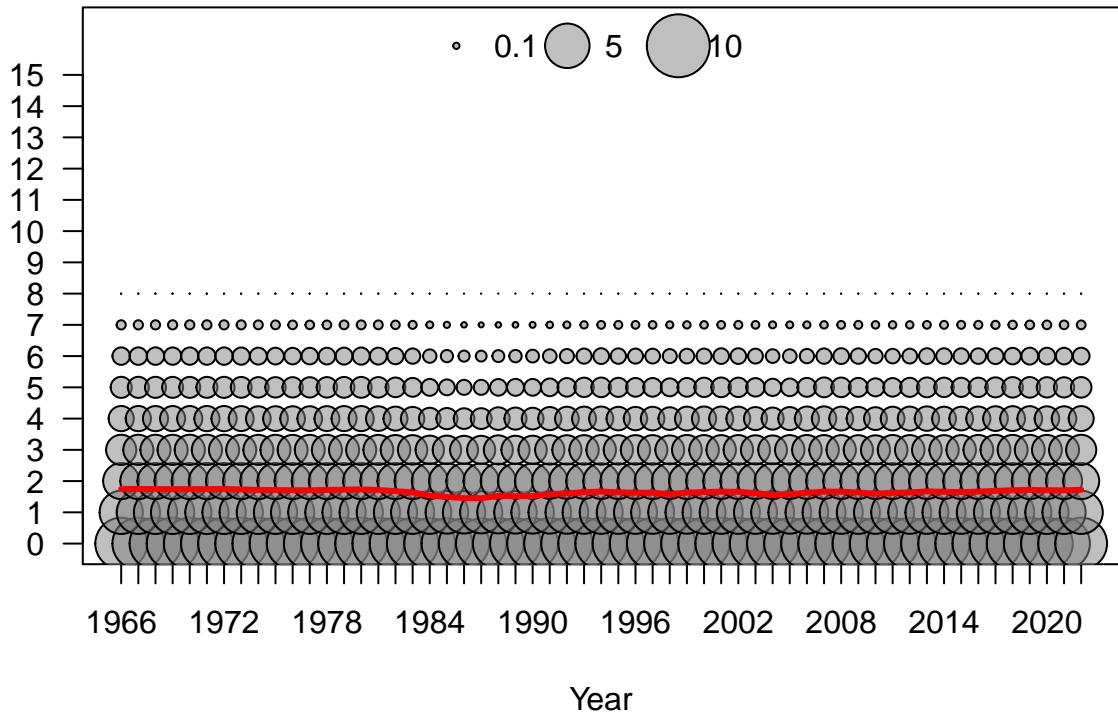
Deviation

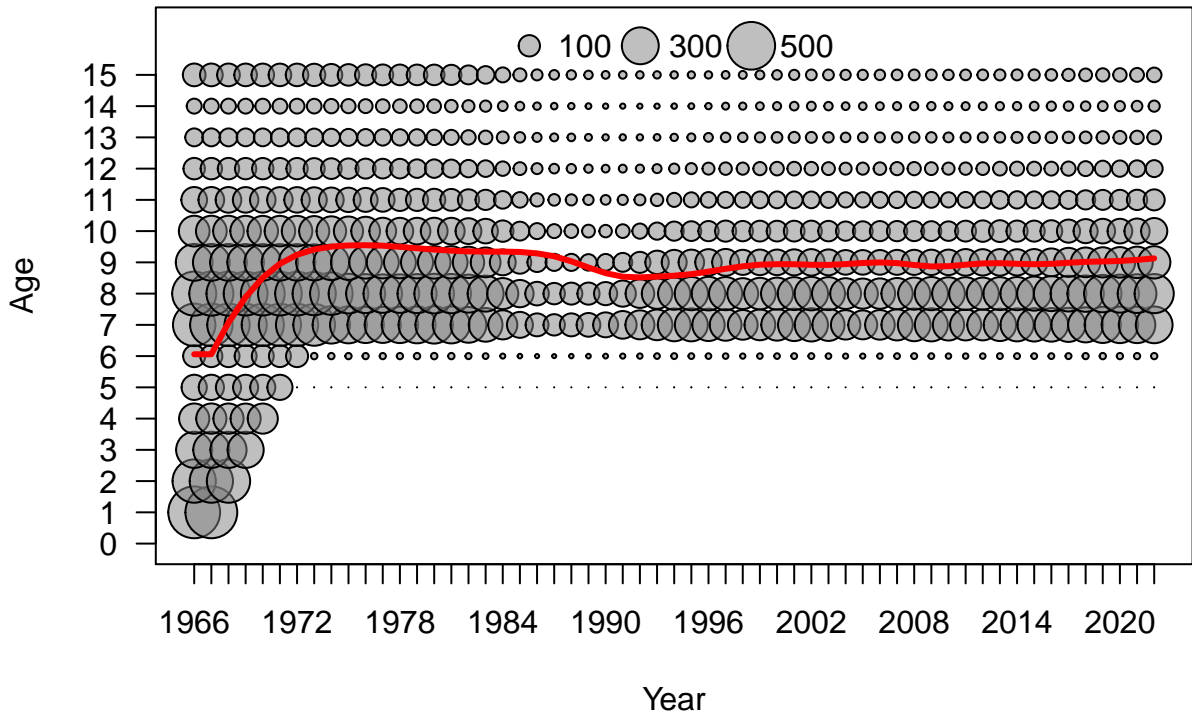


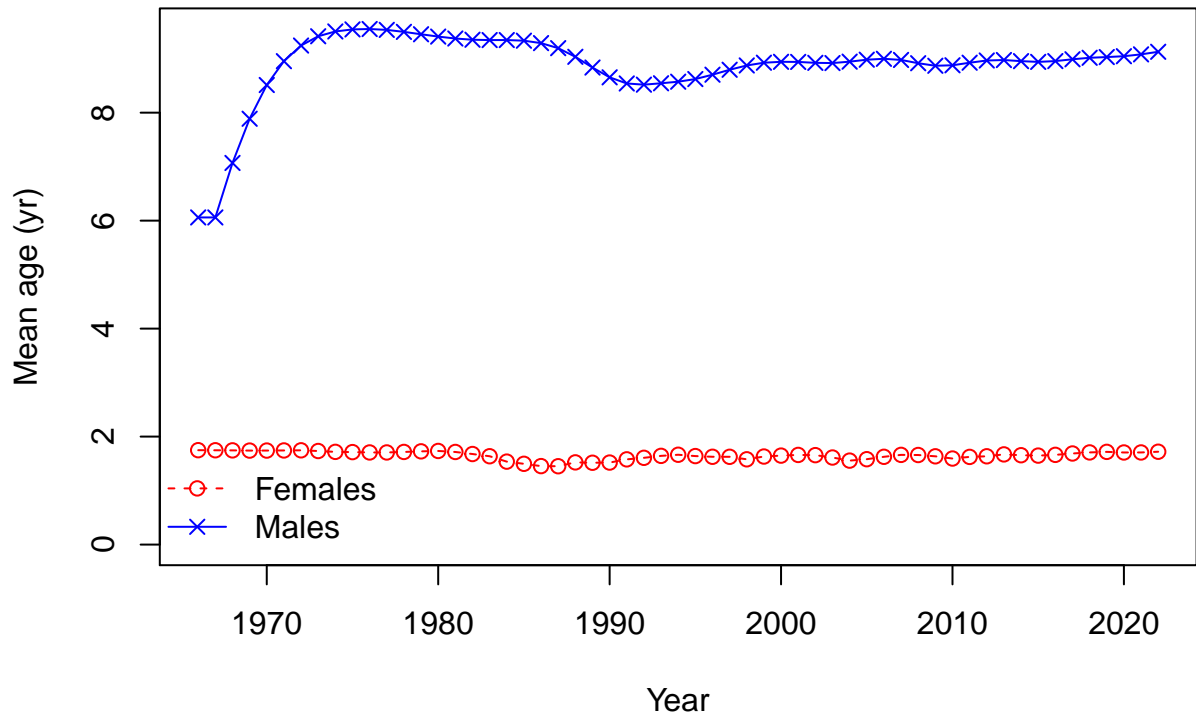
Year



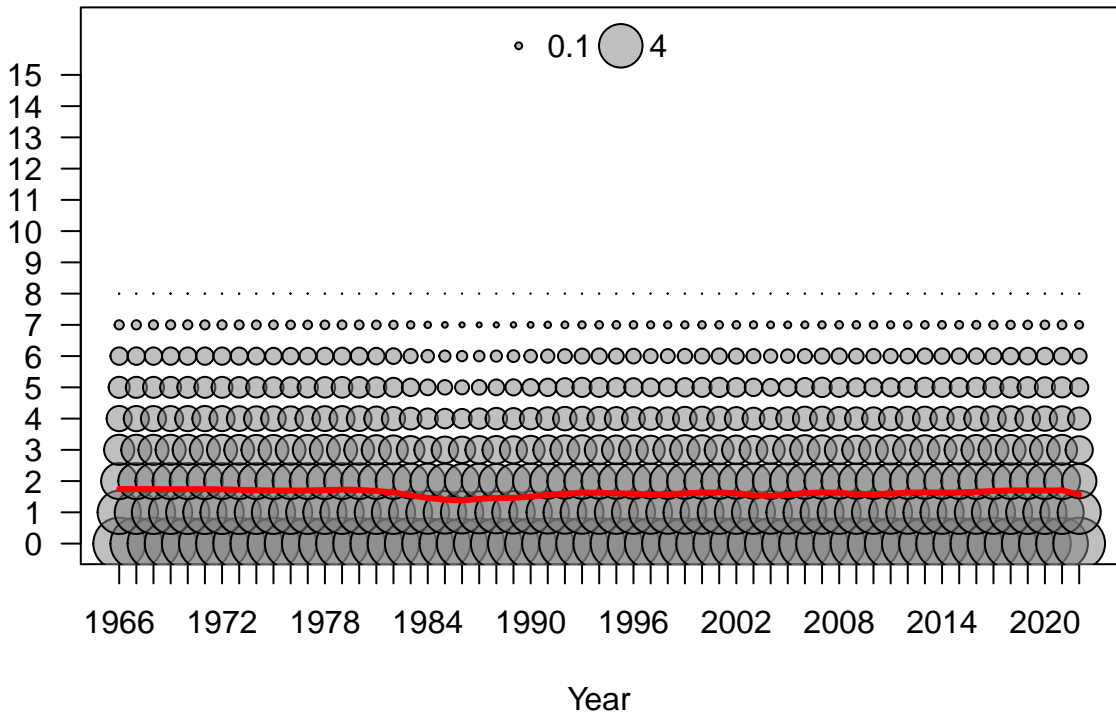
Age

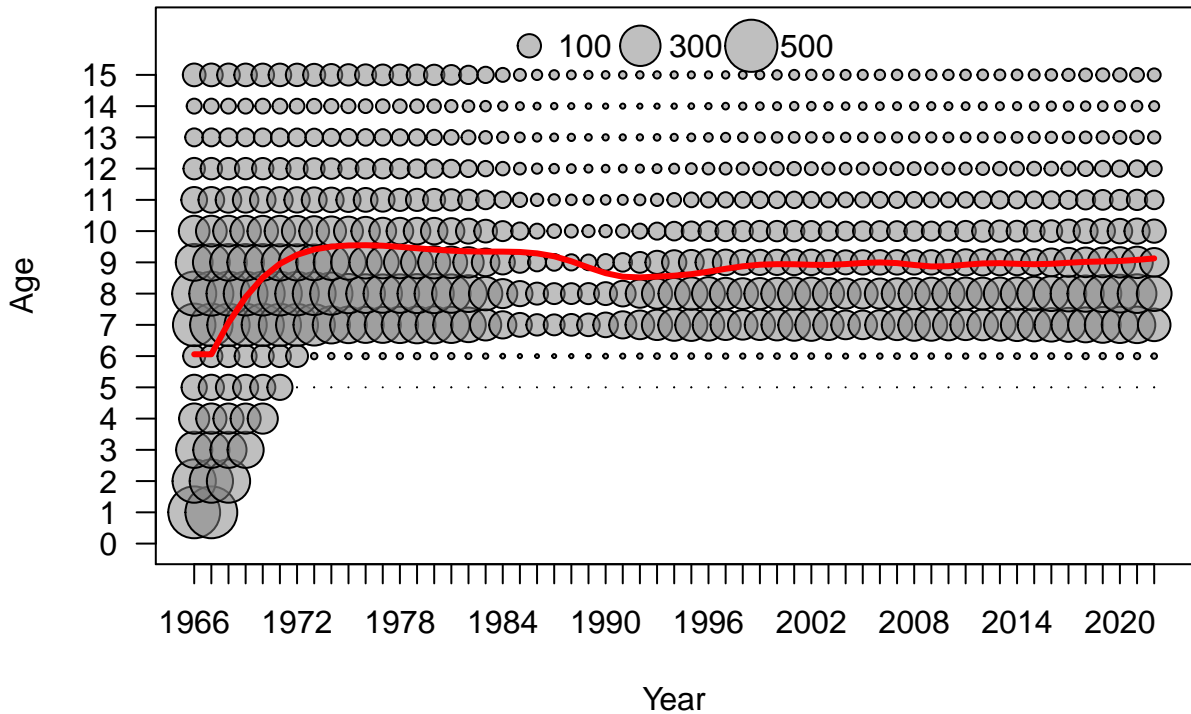


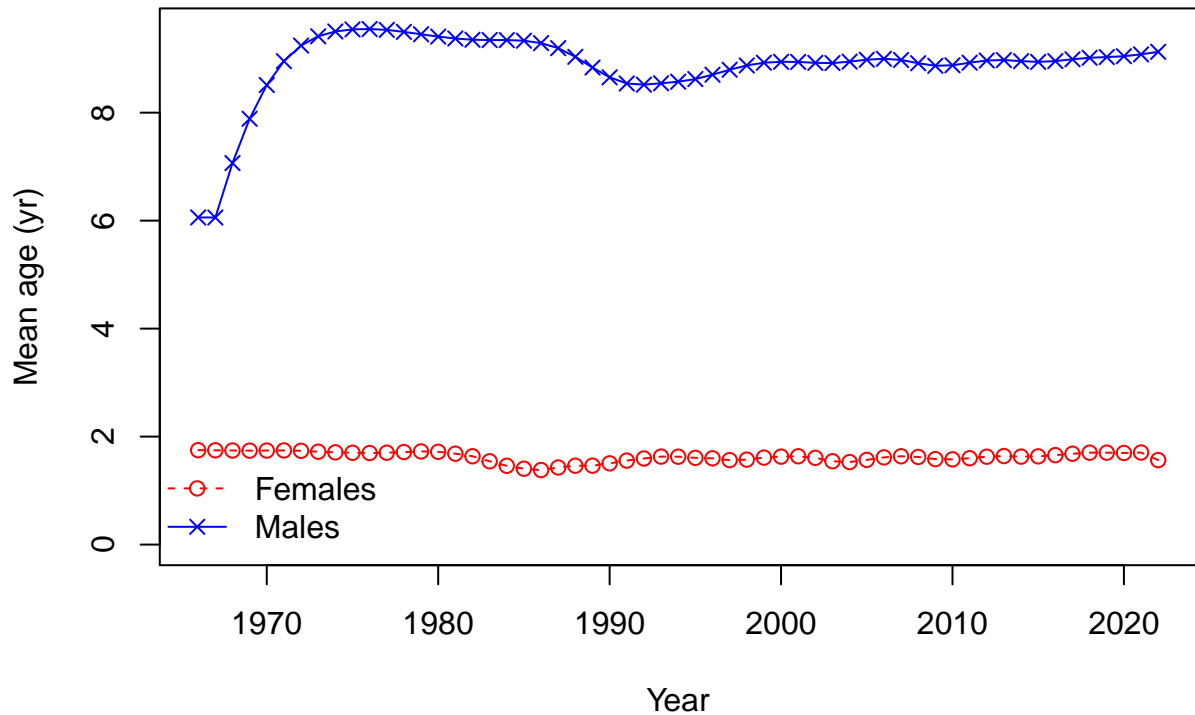




Age







Age

0
2
4
6
8
10
12
14

1970

1980

1990

2000

2010

2020

Year

1

0.5

0.3

0.2

0.6

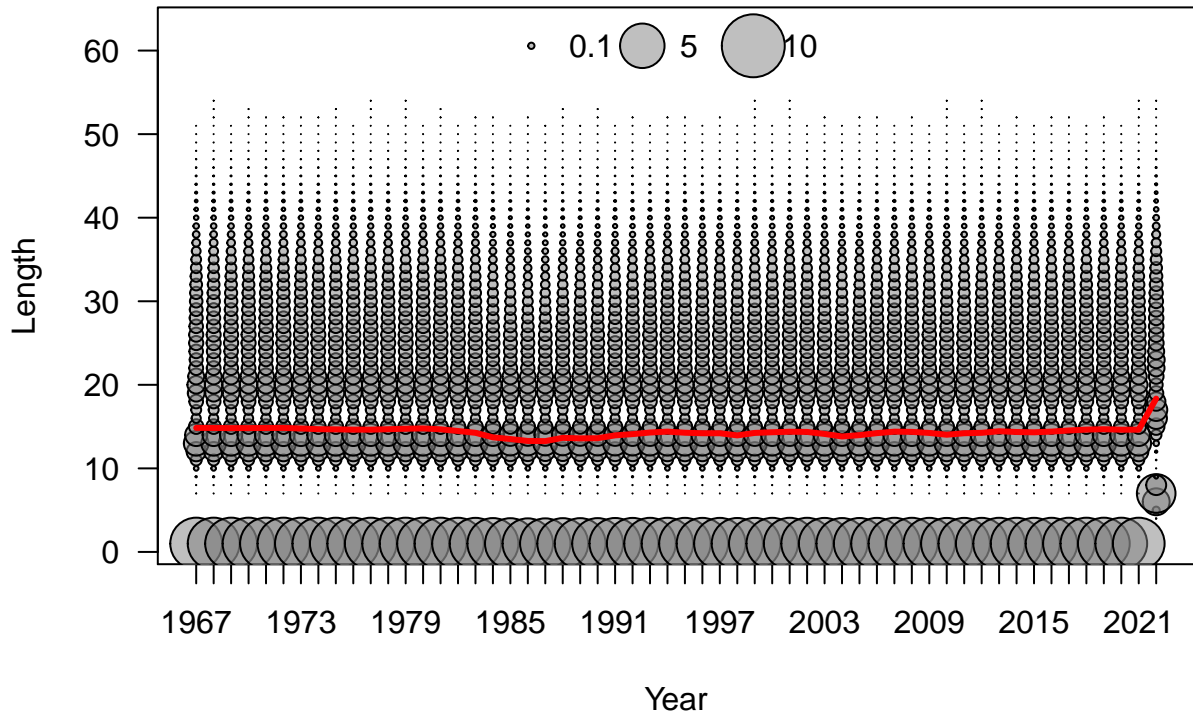
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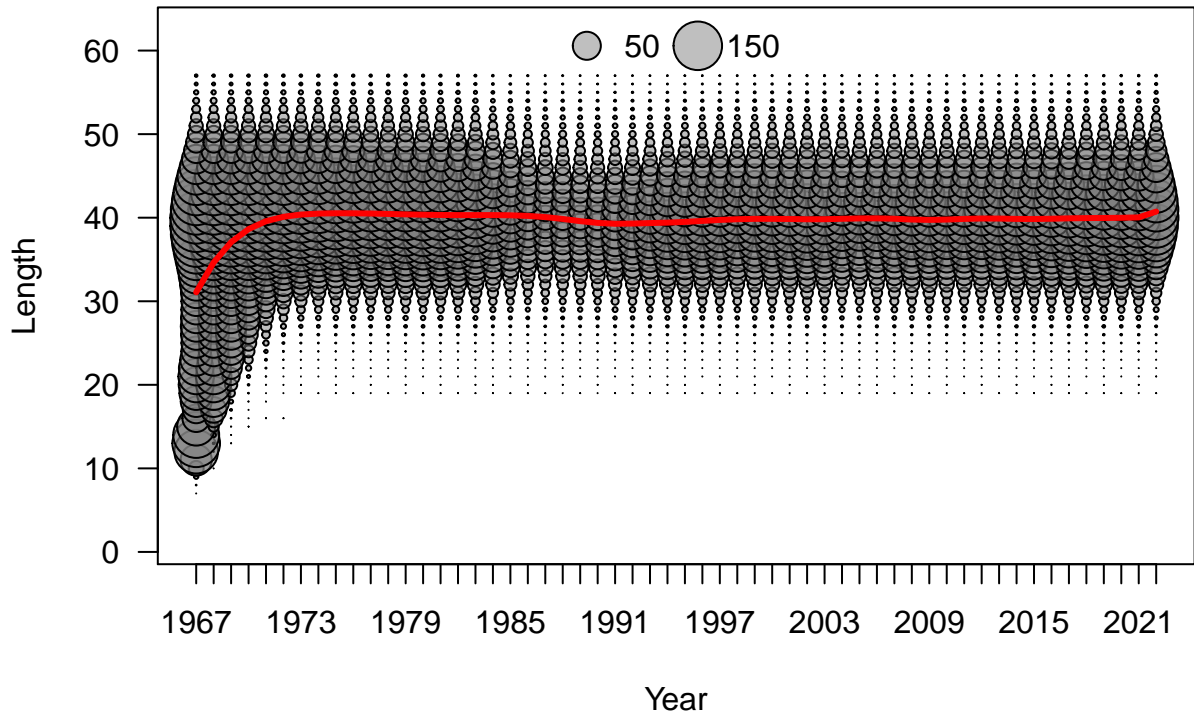
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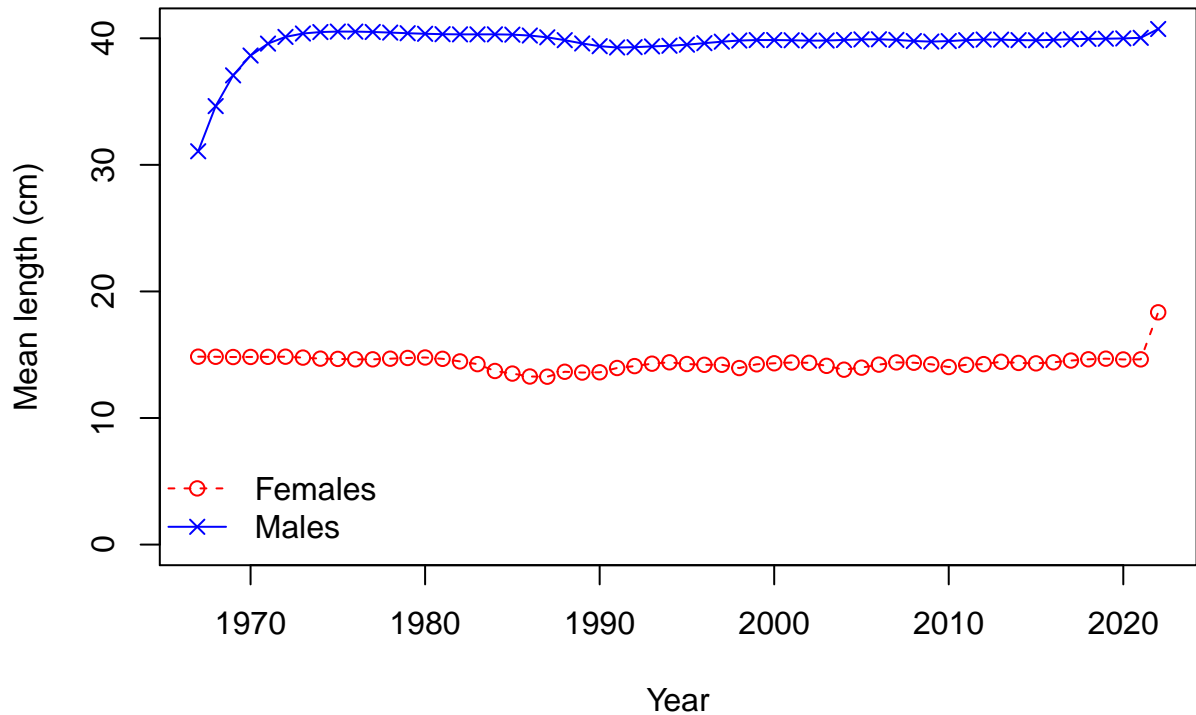
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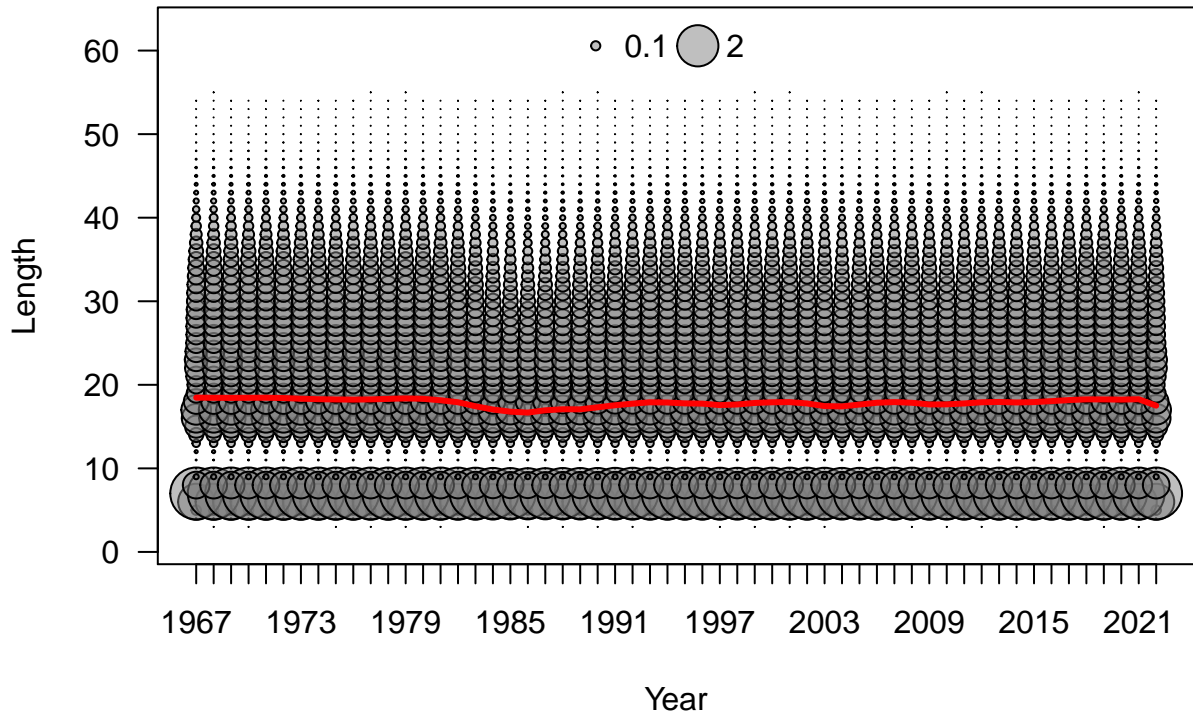
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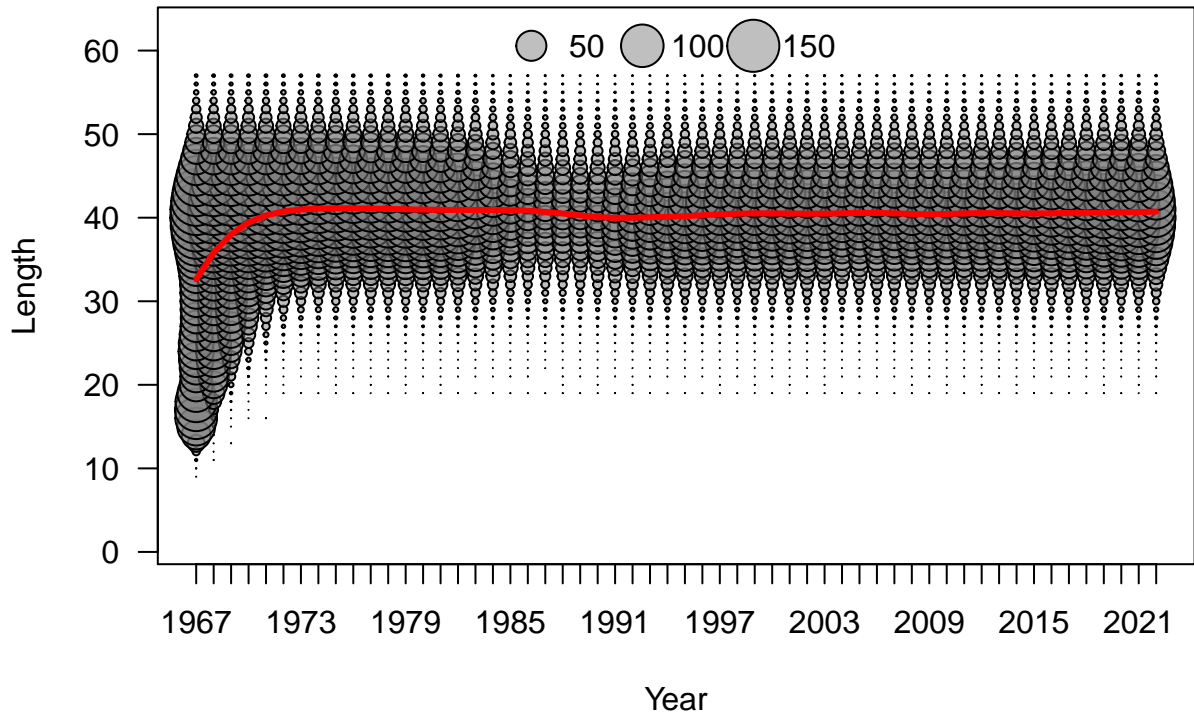
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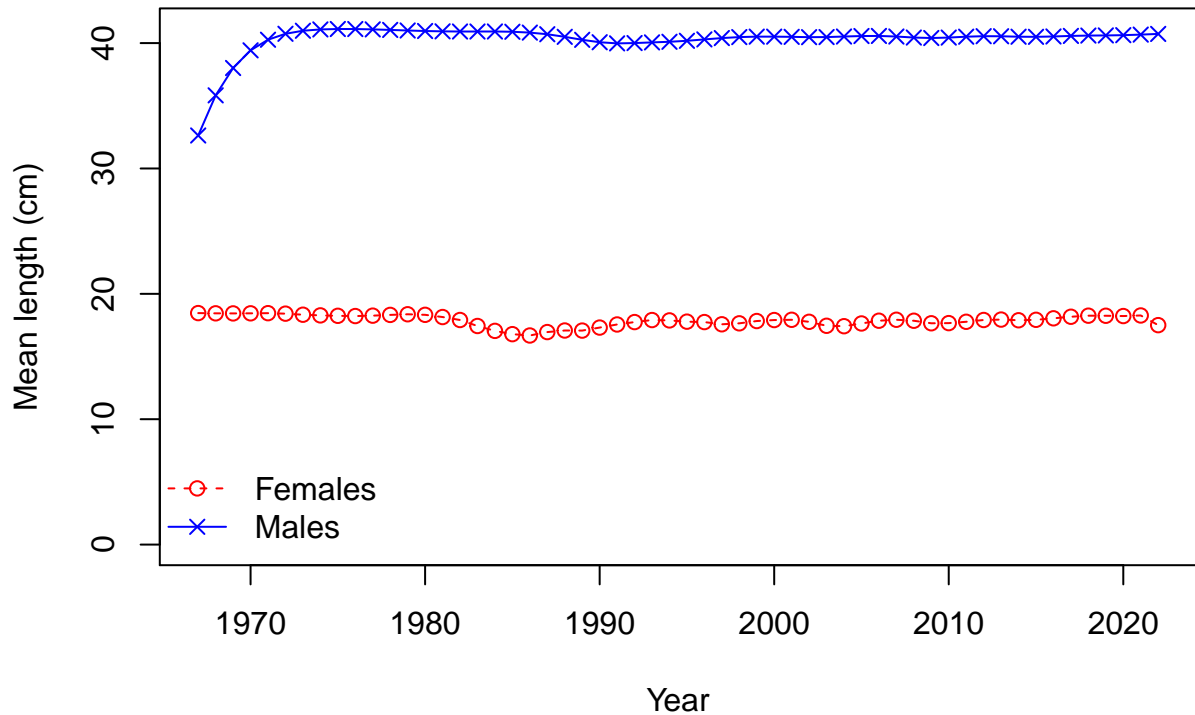


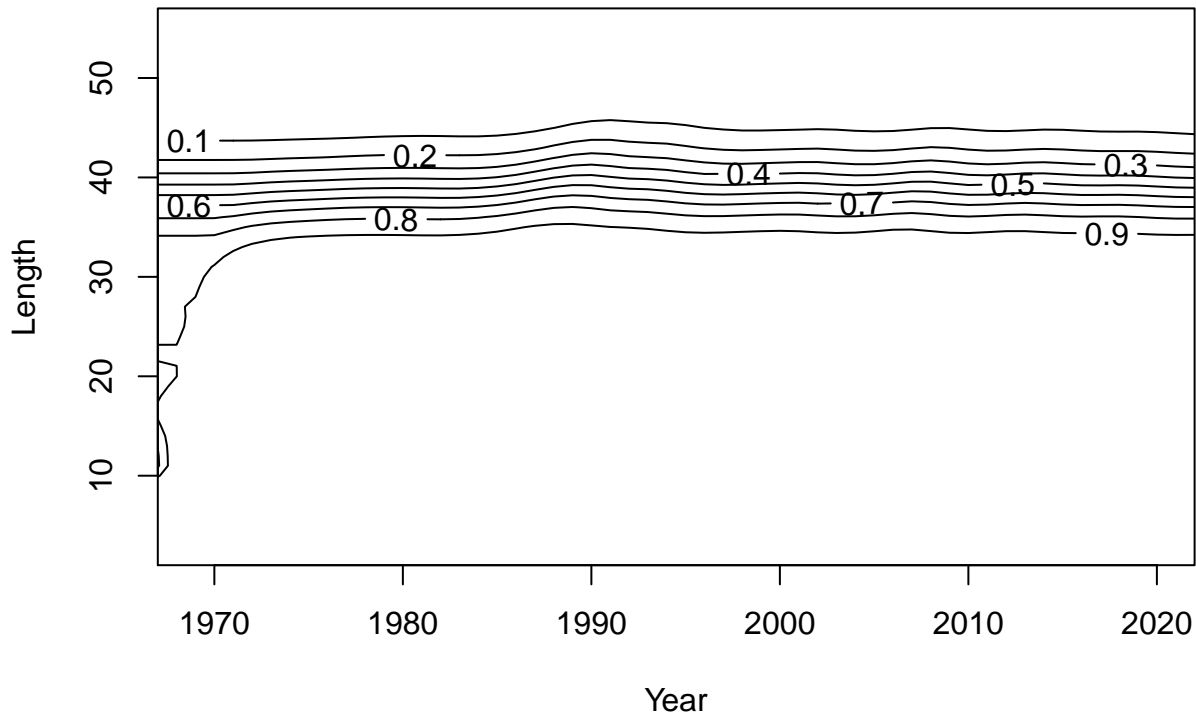


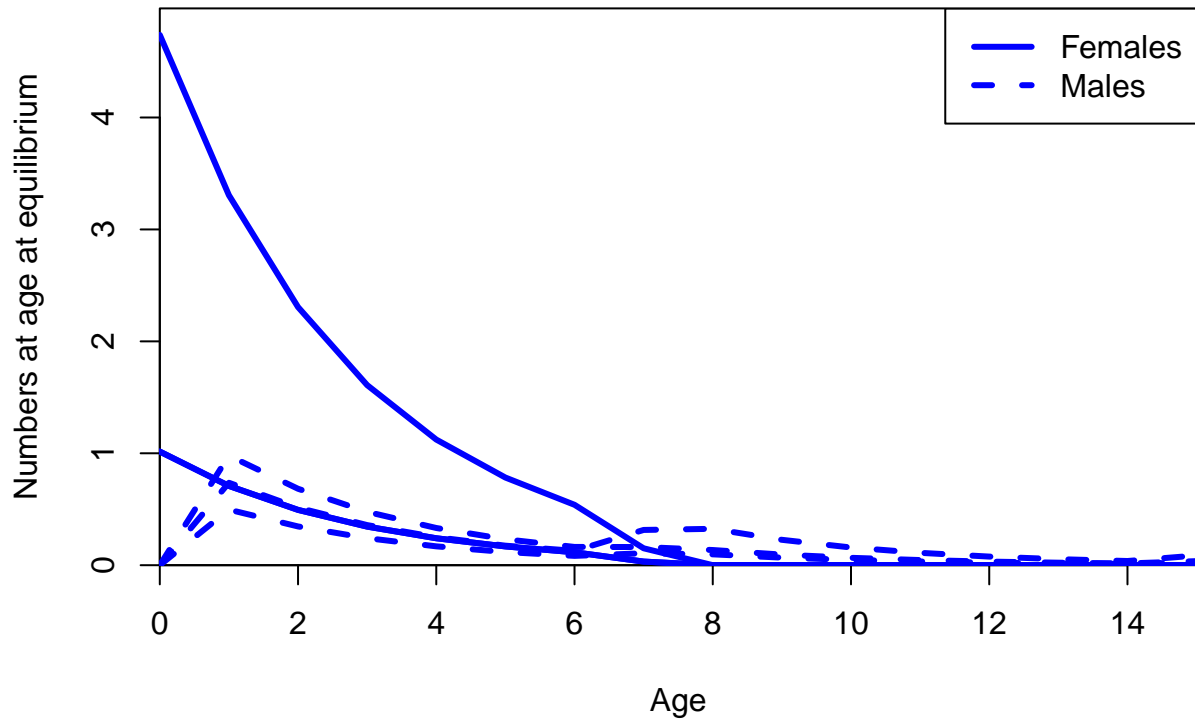


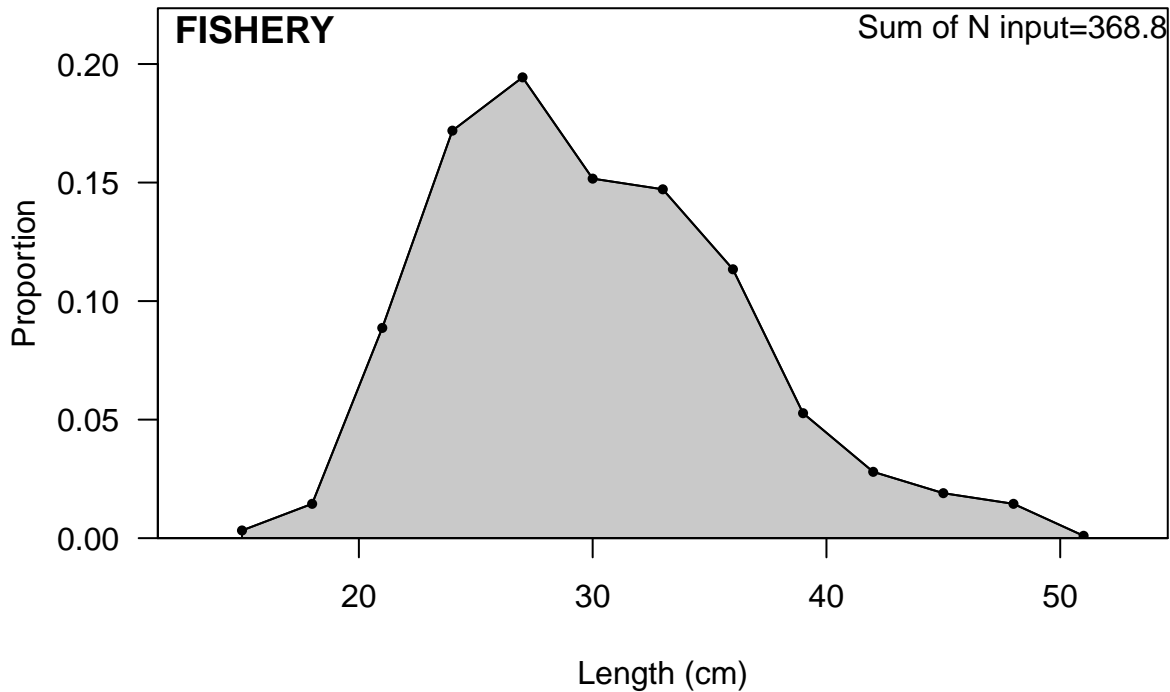






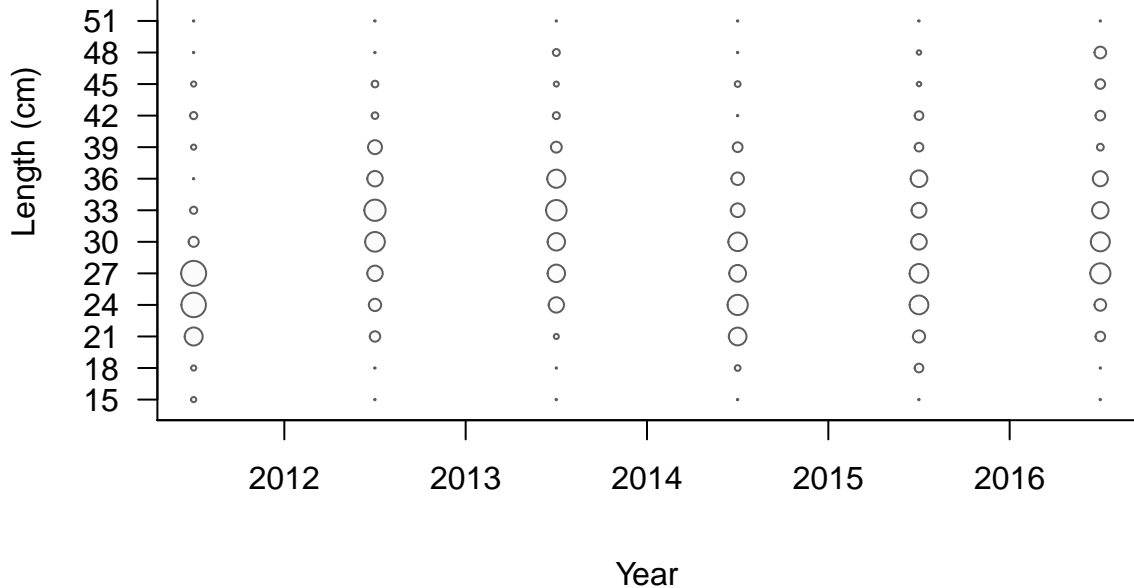




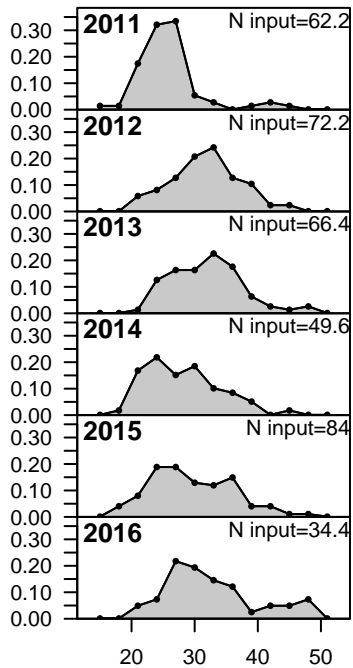


FISHERY

• 0.01 ○ 0.2 ○ 0.4



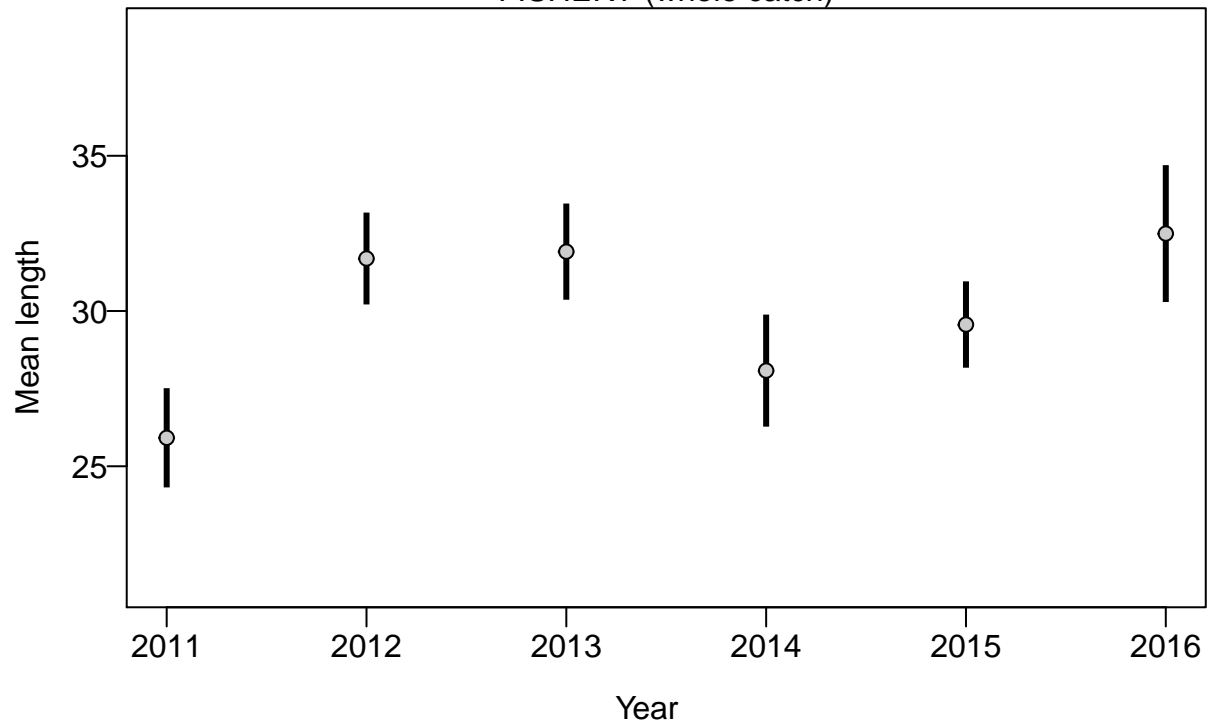
Proportion

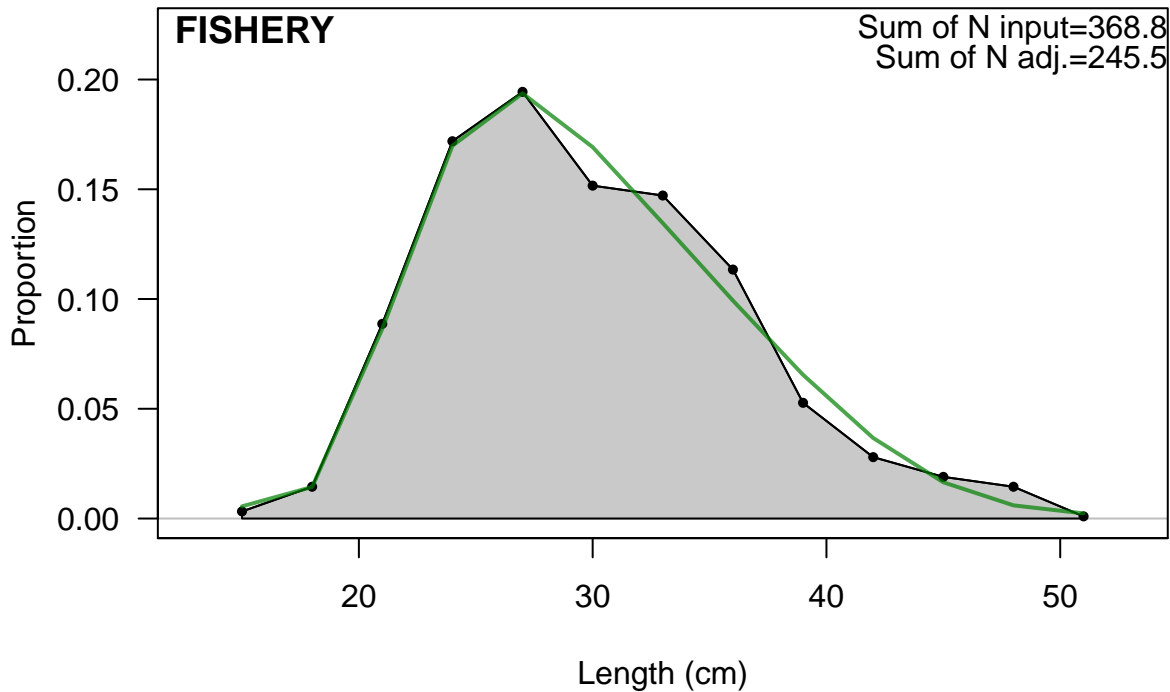


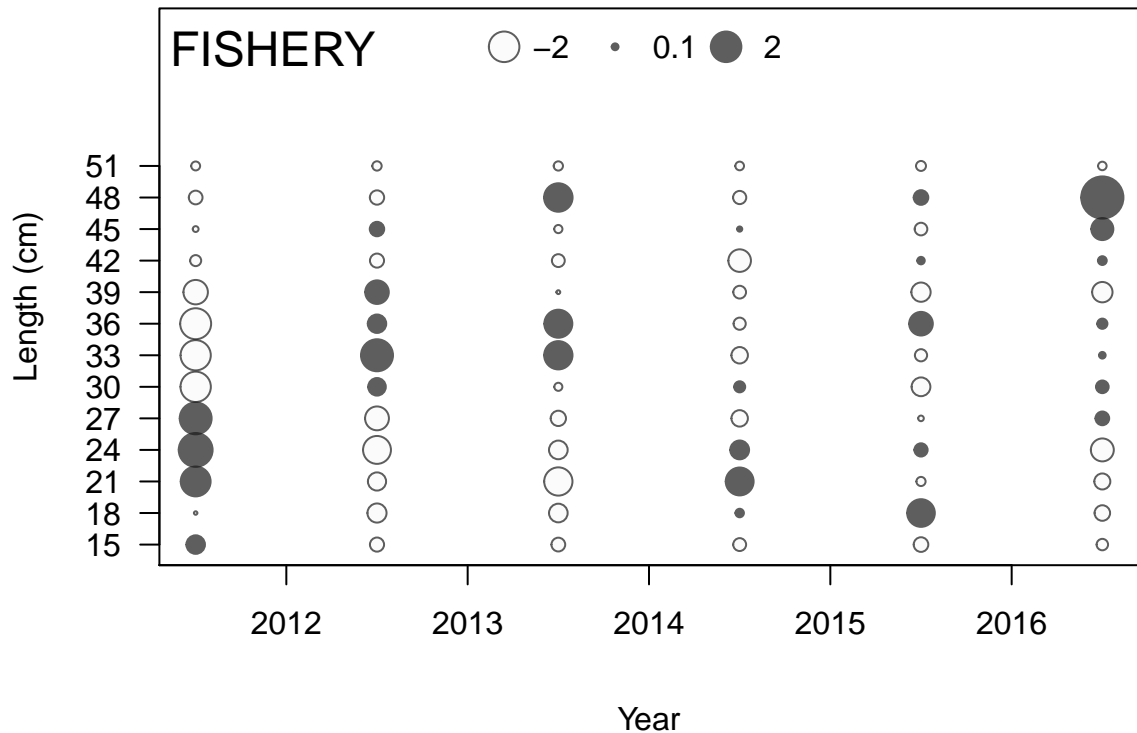
Length (cm)



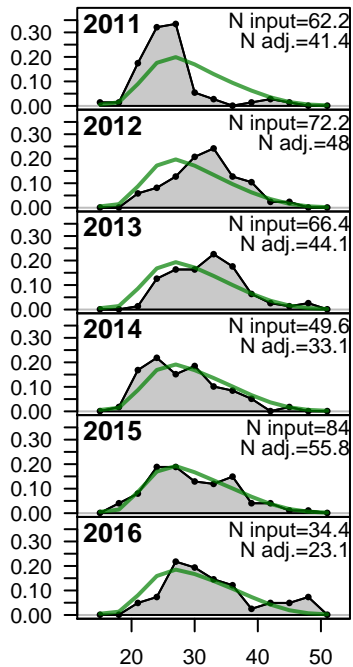
FISHERY (whole catch)



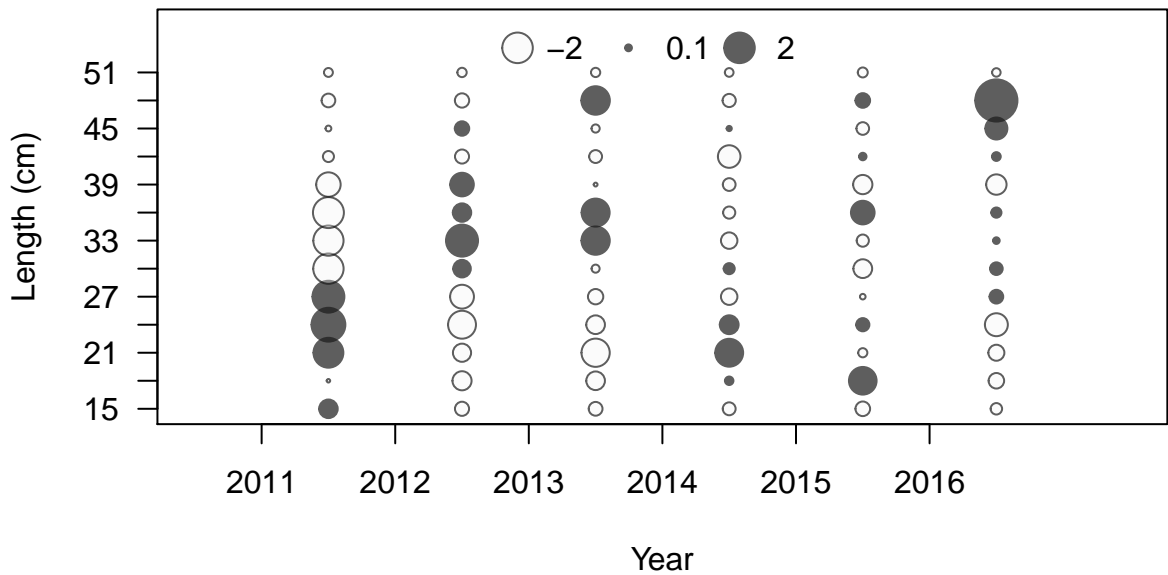




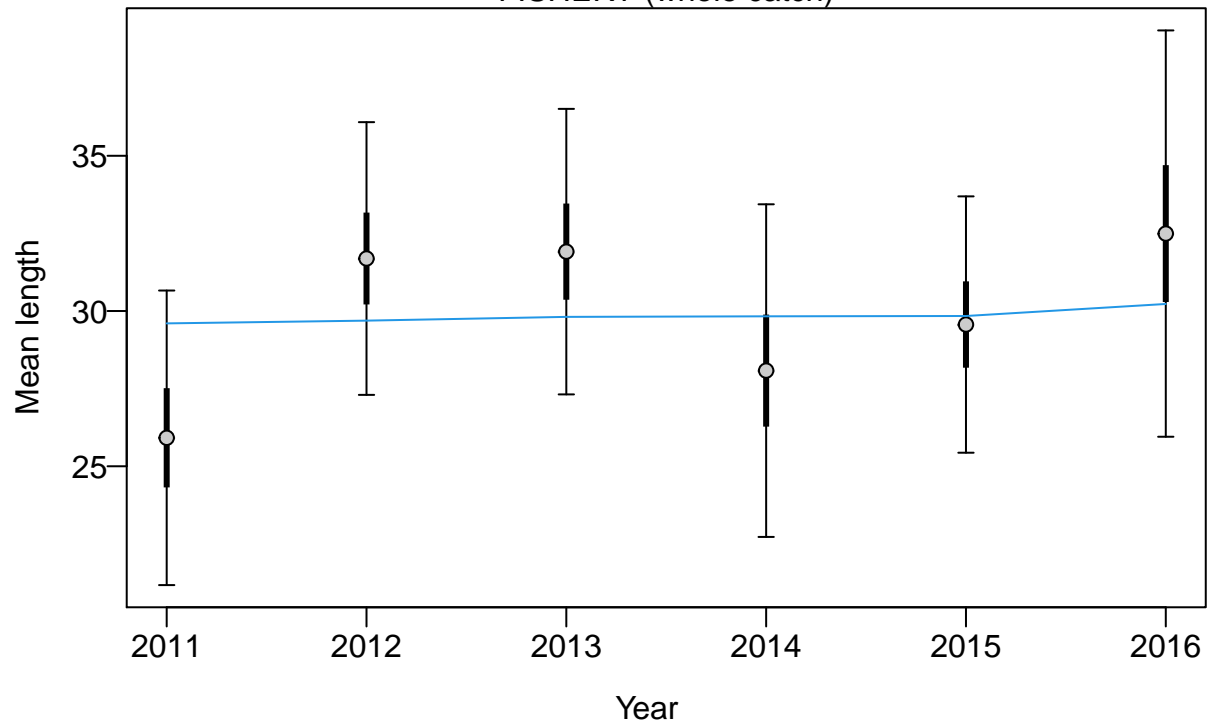
Proportion

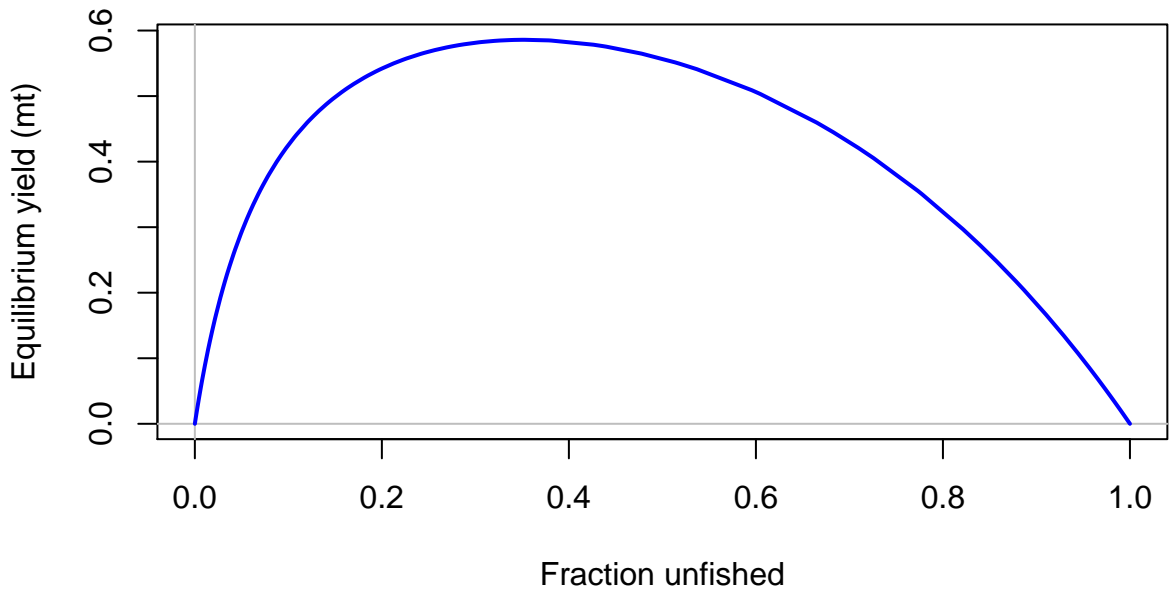


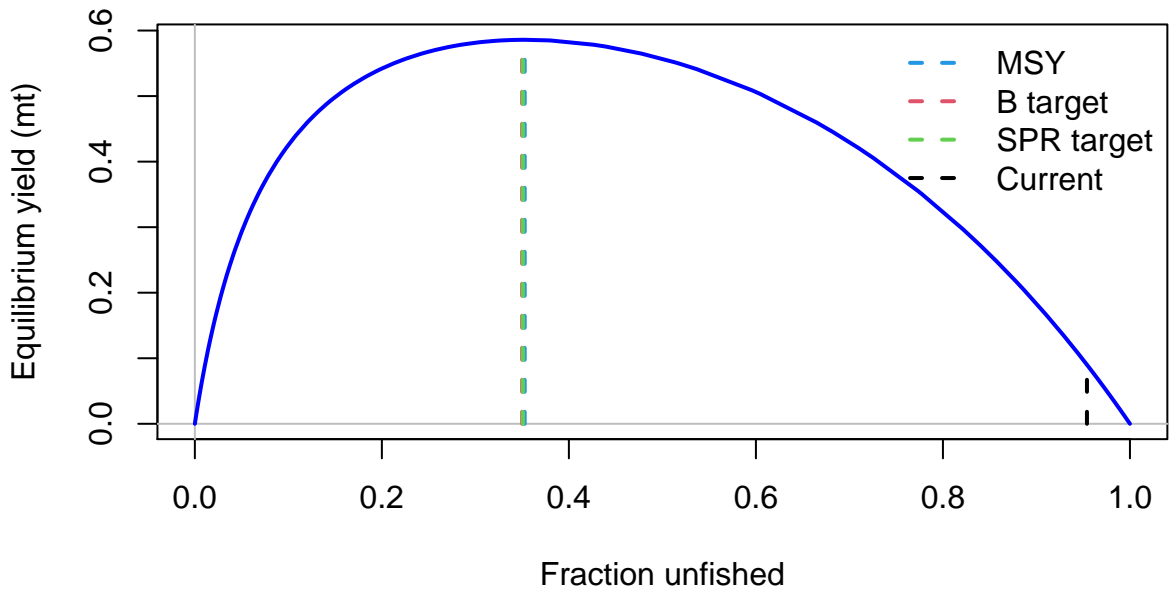
Length (cm)

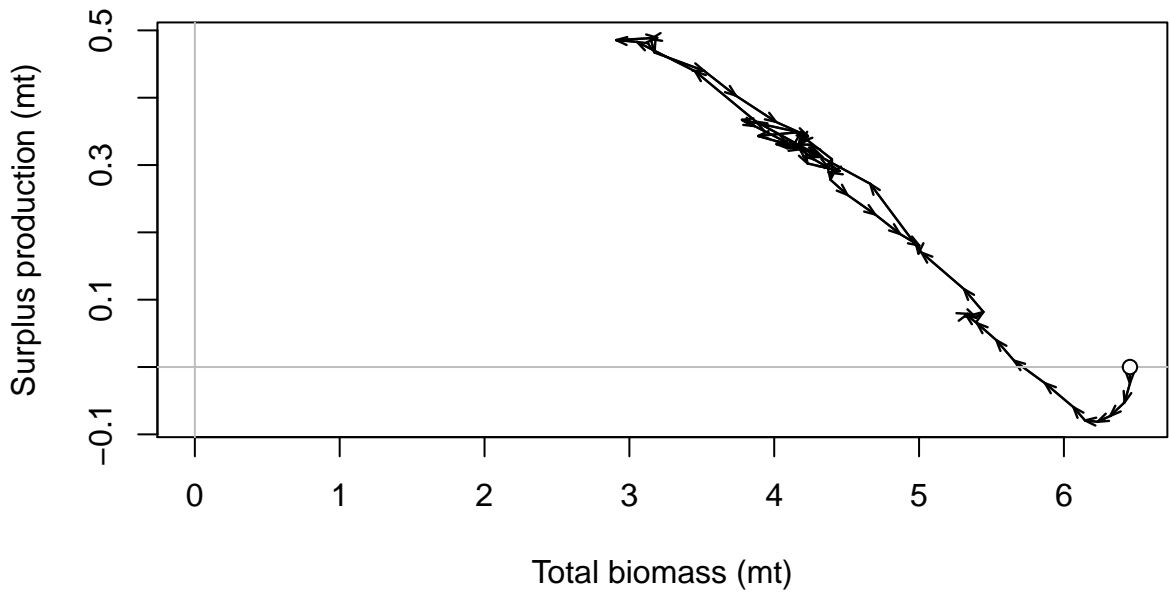


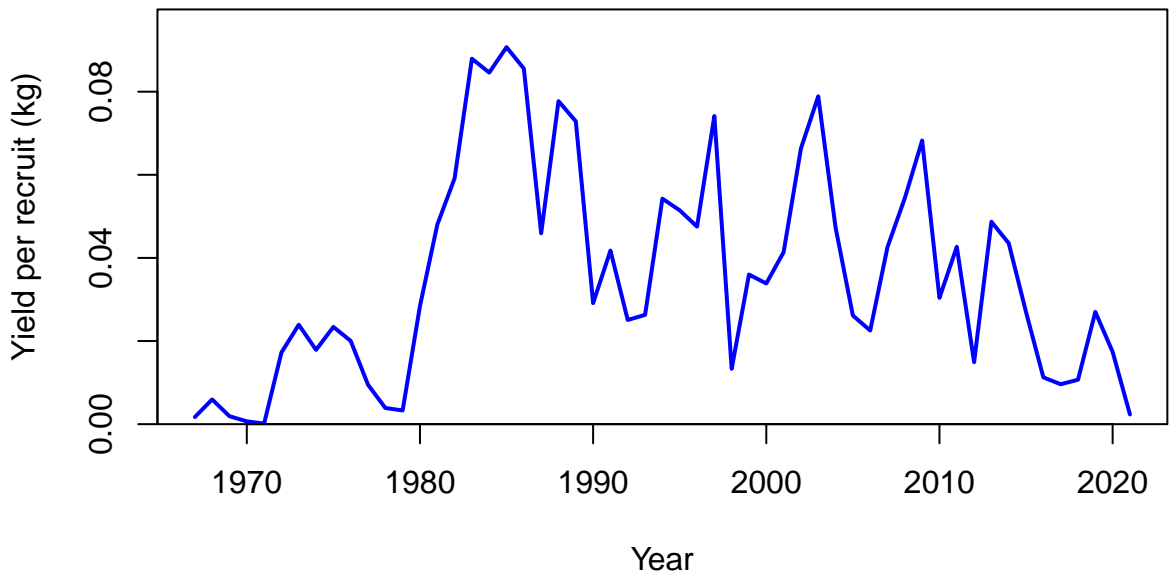
FISHERY (whole catch)



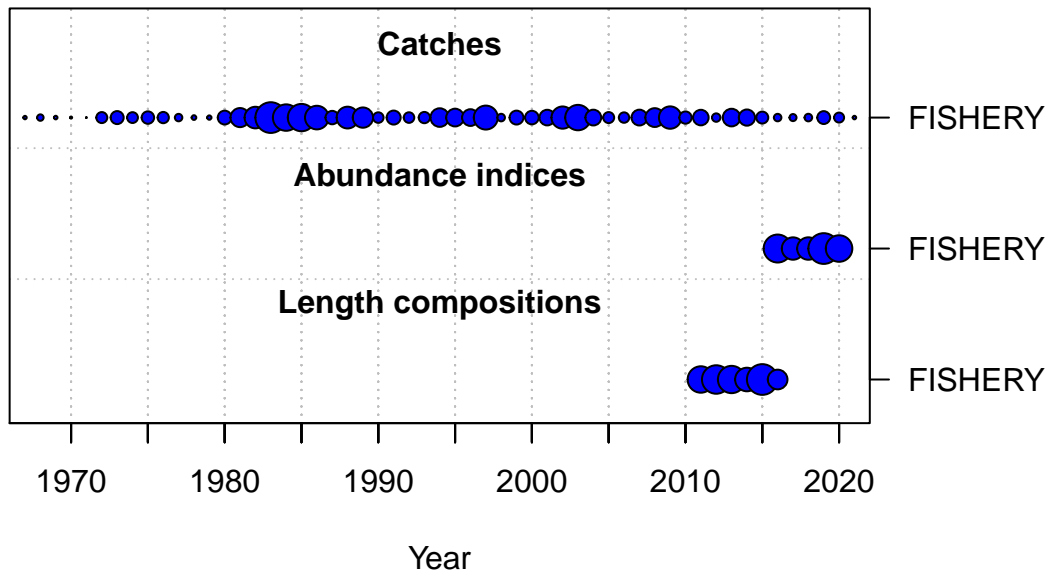




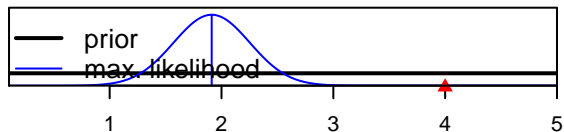




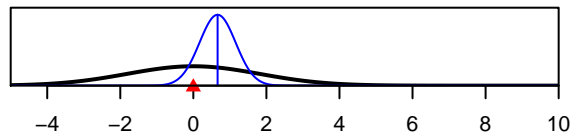




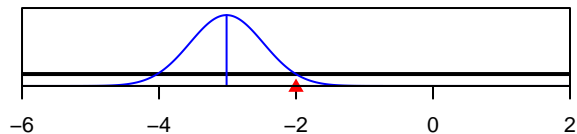
SR_LN(R0)



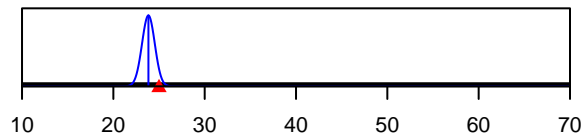
ln(DM_theta)_1



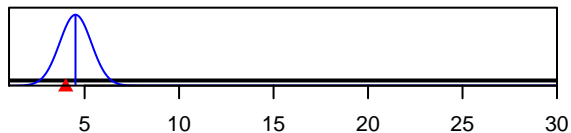
LnQ_base_FISHERY(1)



Size_inflection_FISHERY(1)



Size_95%width_FISHERY(1)



Parameter value