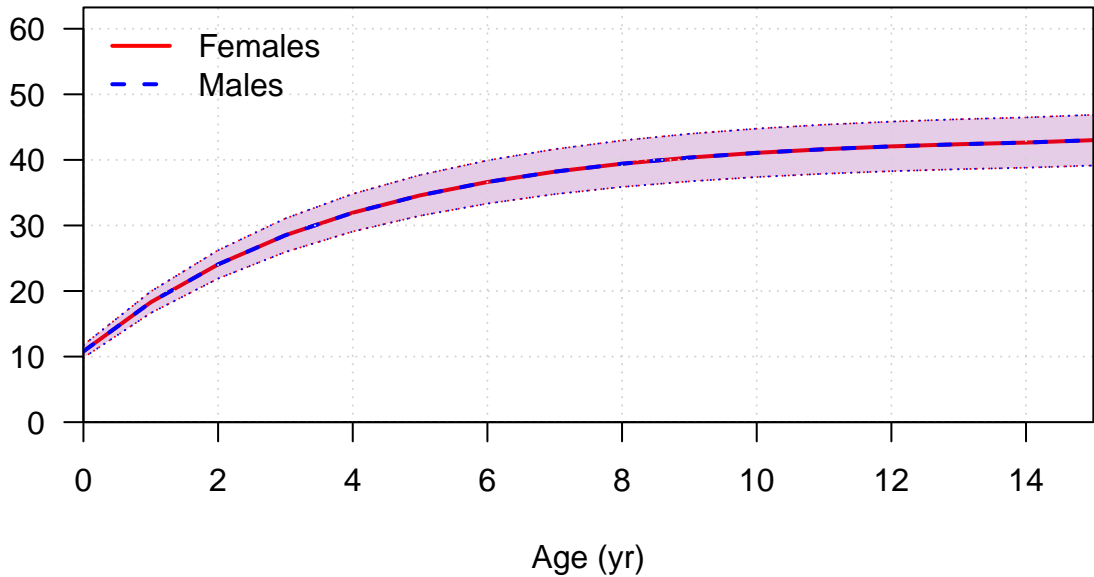
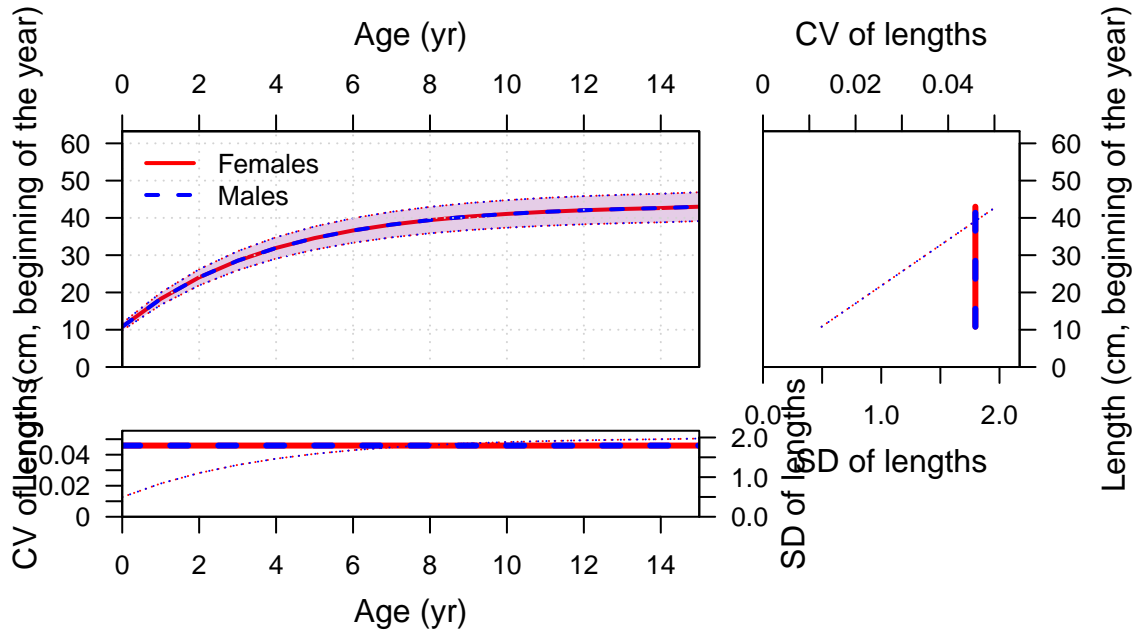
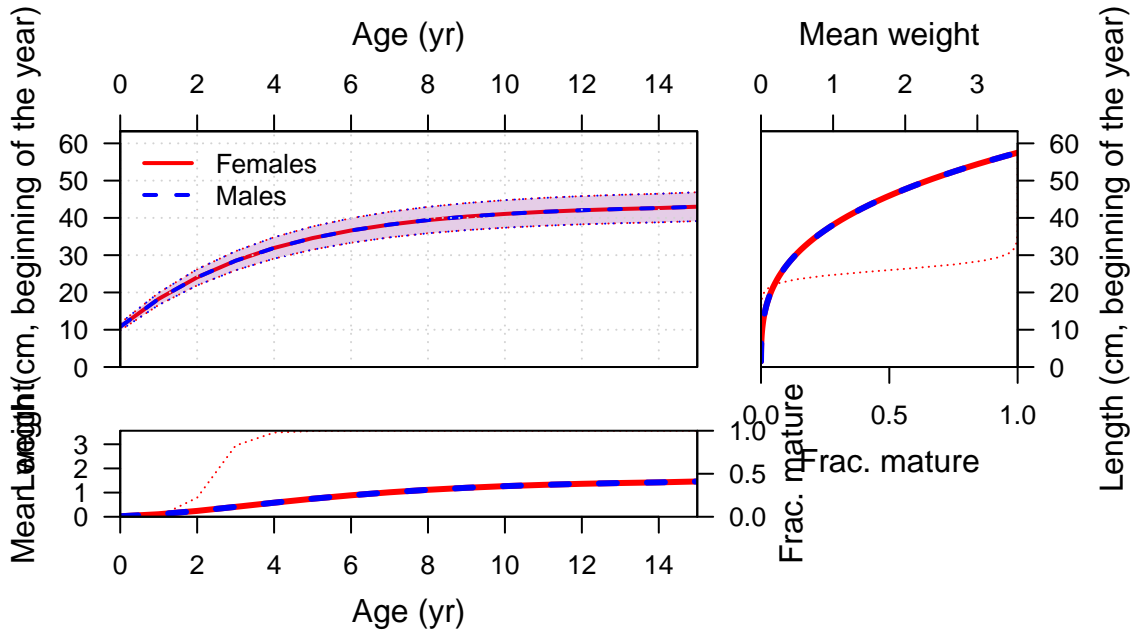


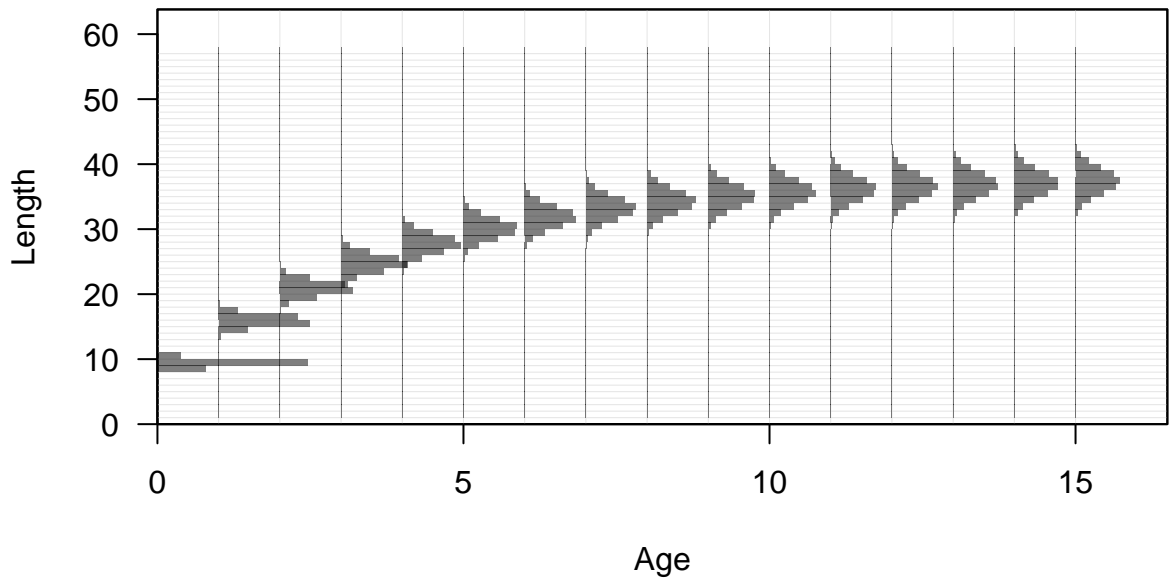
Plots created using the 'r4ss' package in R  
Stock Synthesis version: 3.30.19.0  
StartTime: Wed Aug 10 16:46:48 2022  
Data\_File: data.ss  
Control\_File: control.ss

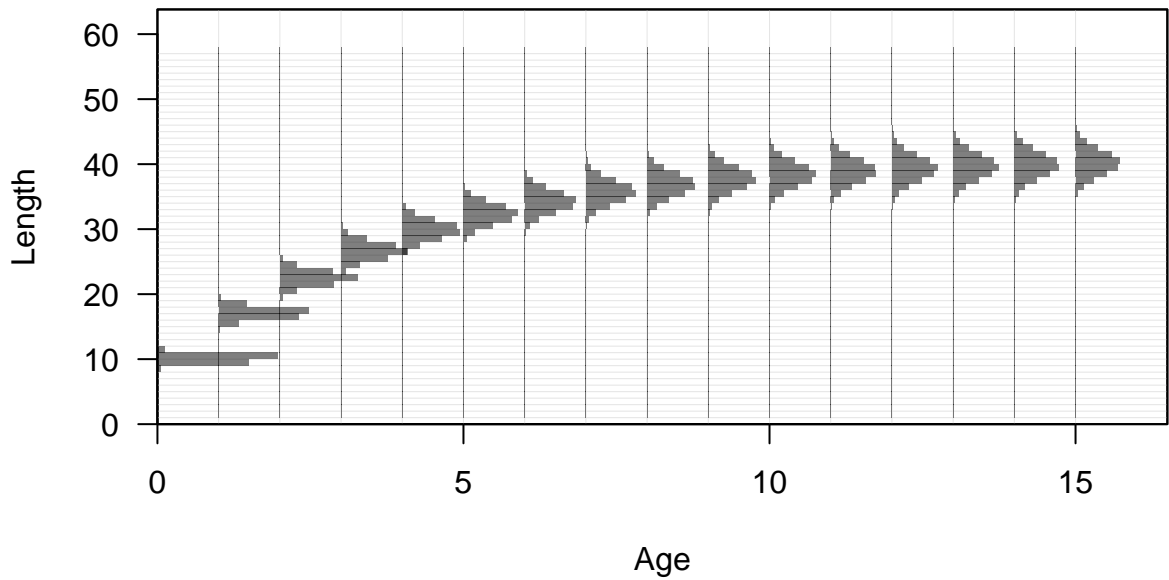
Length (cm, beginning of the year)

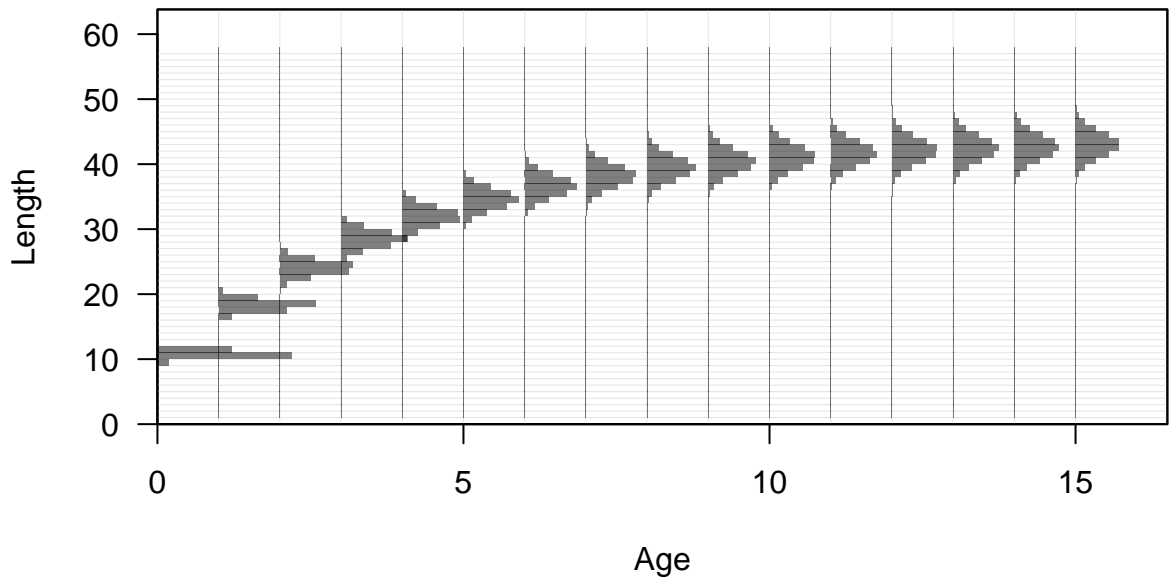


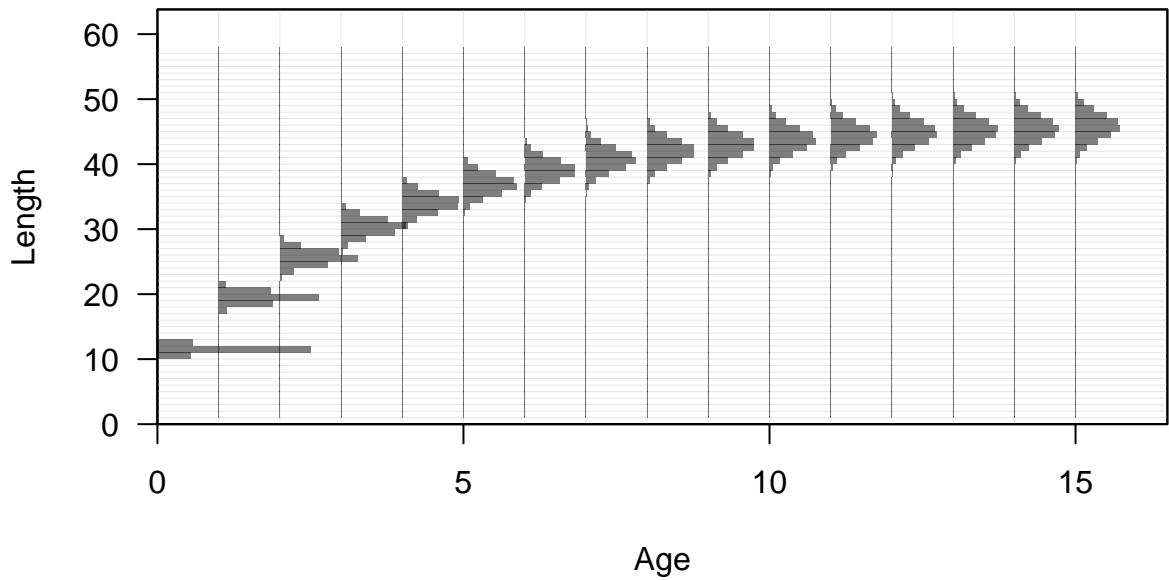




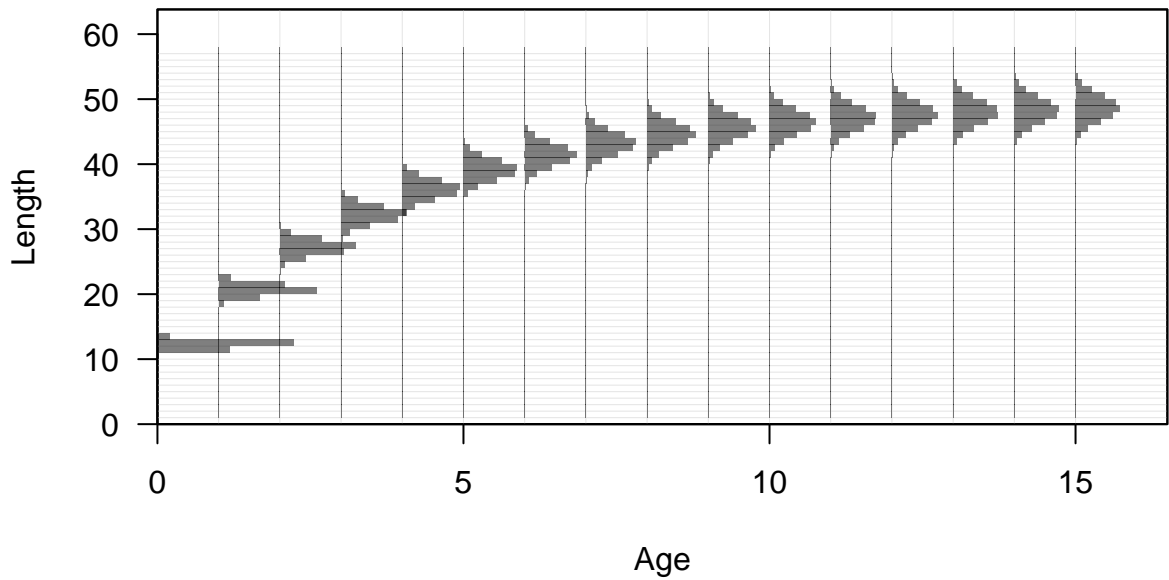


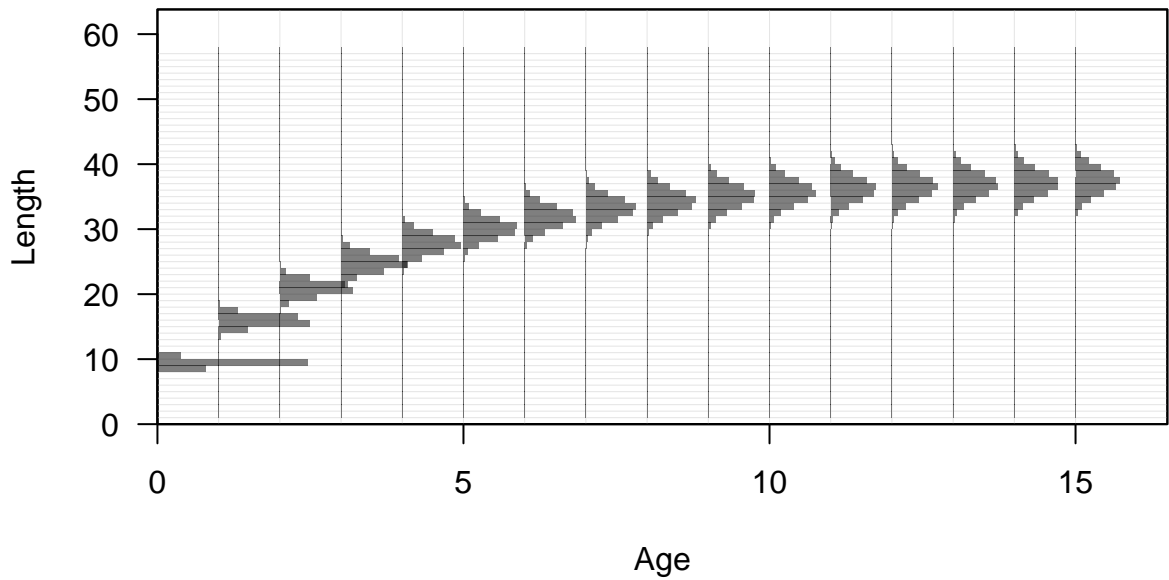


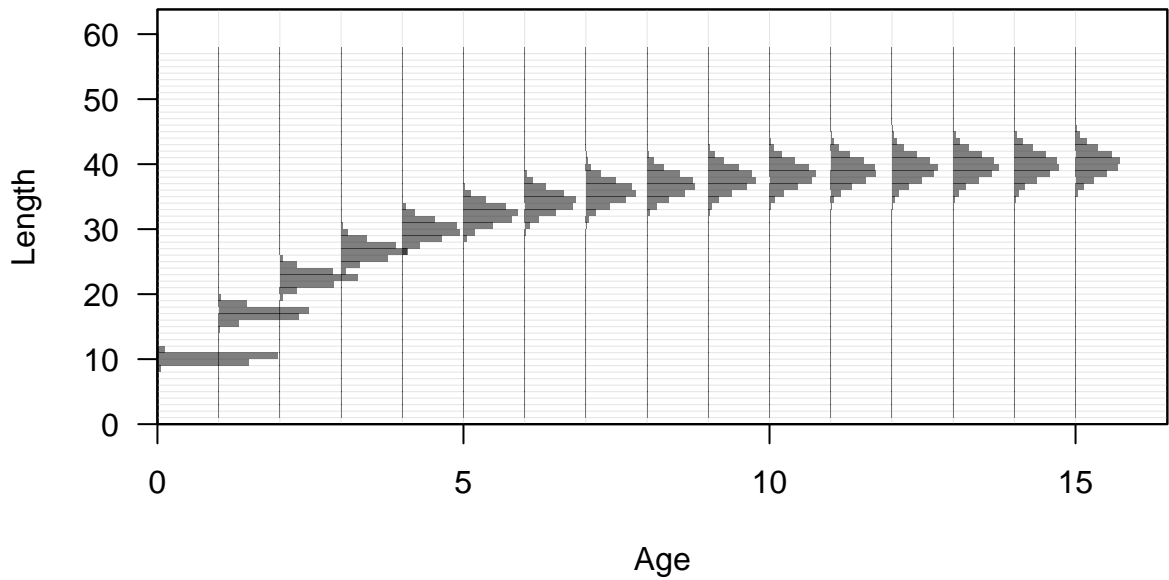


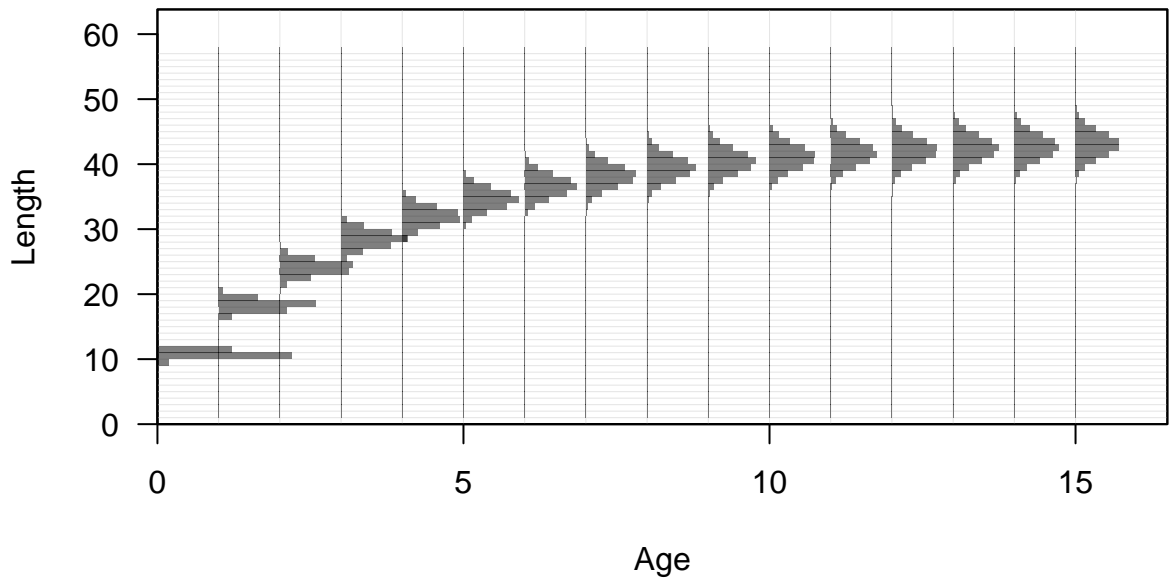


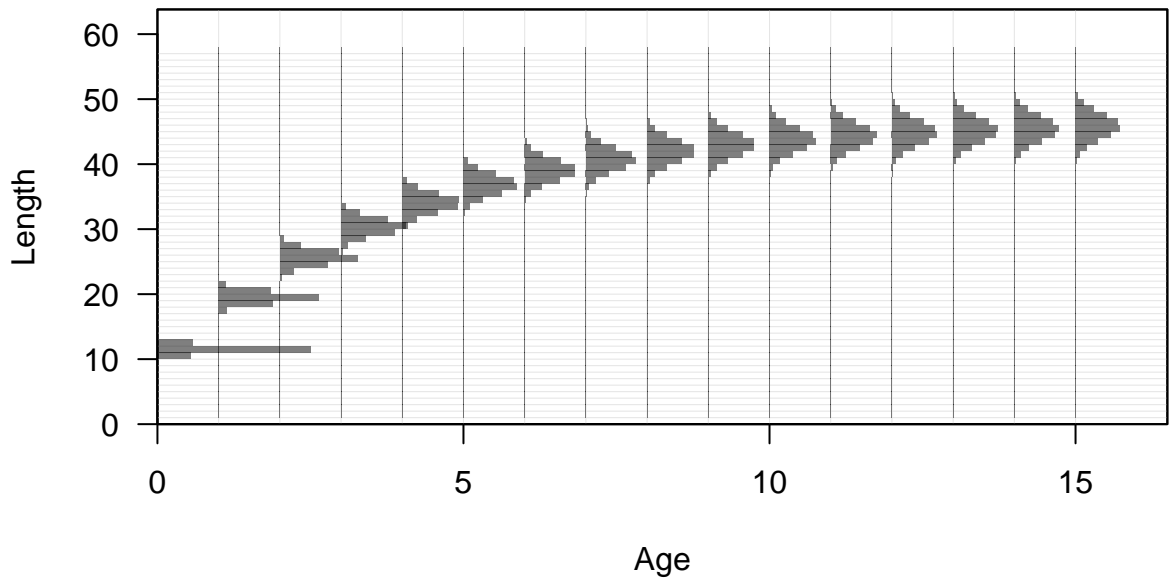


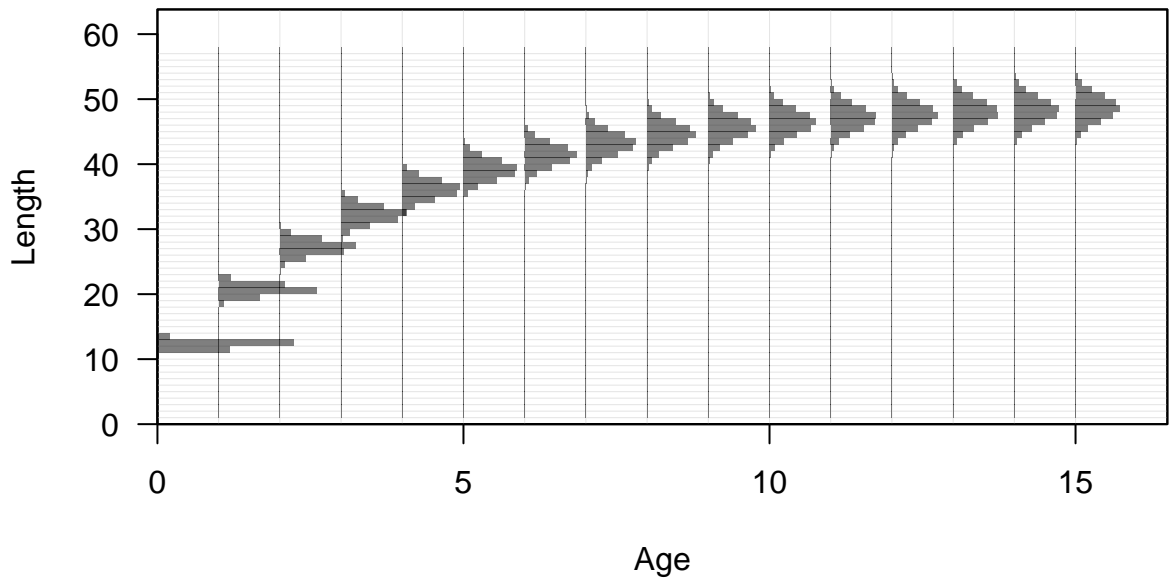


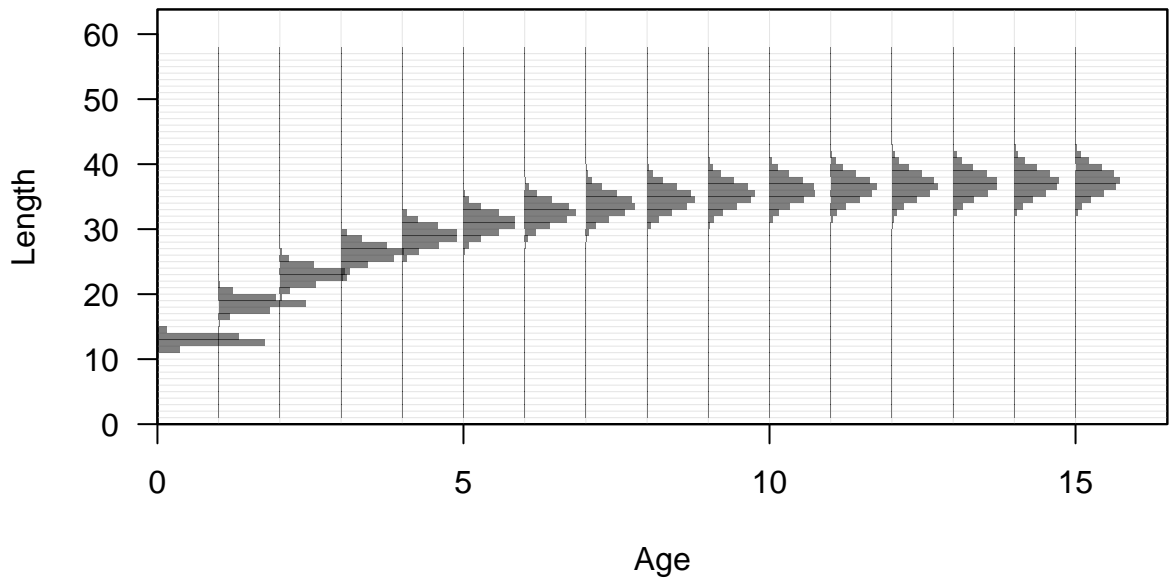


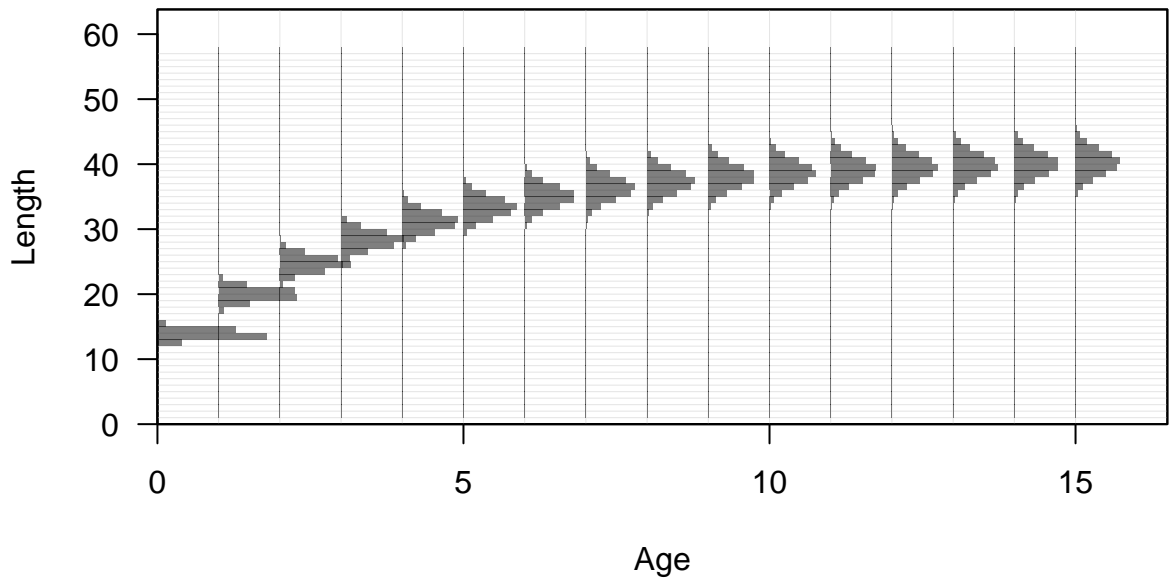




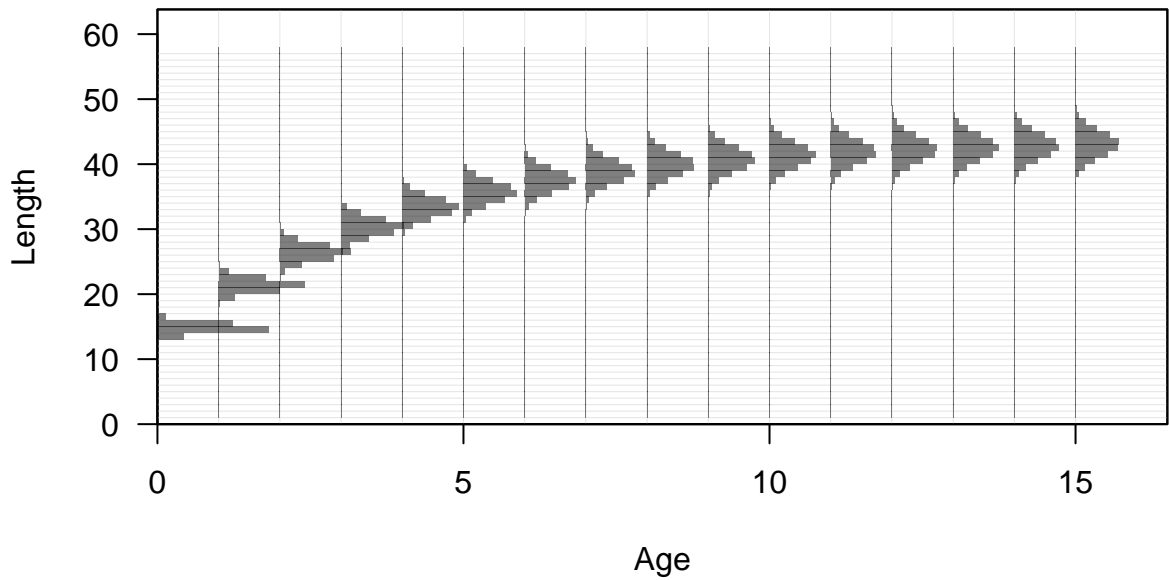


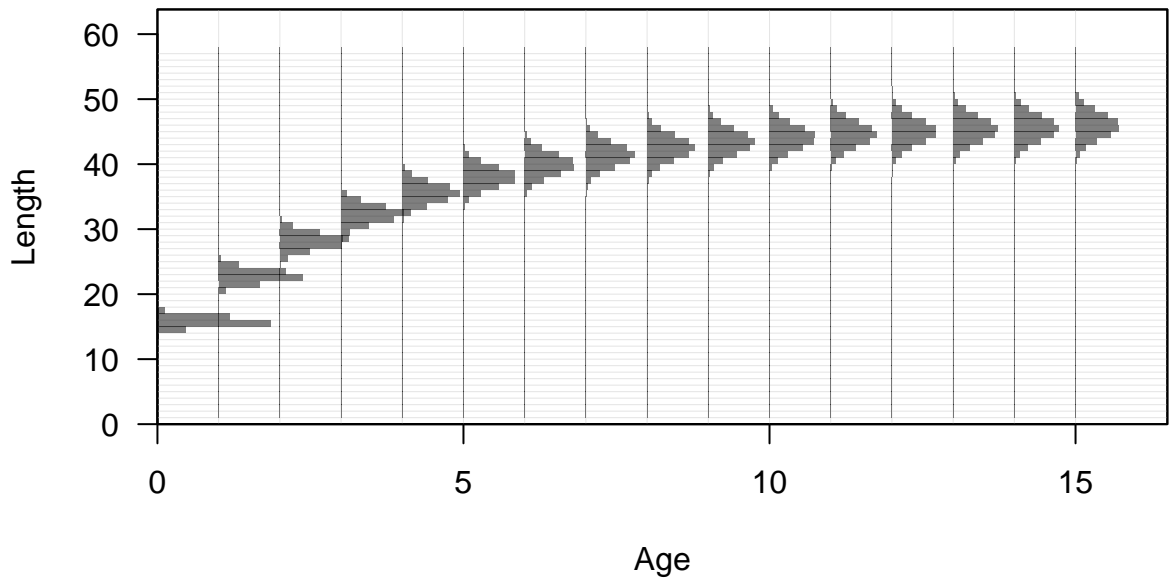


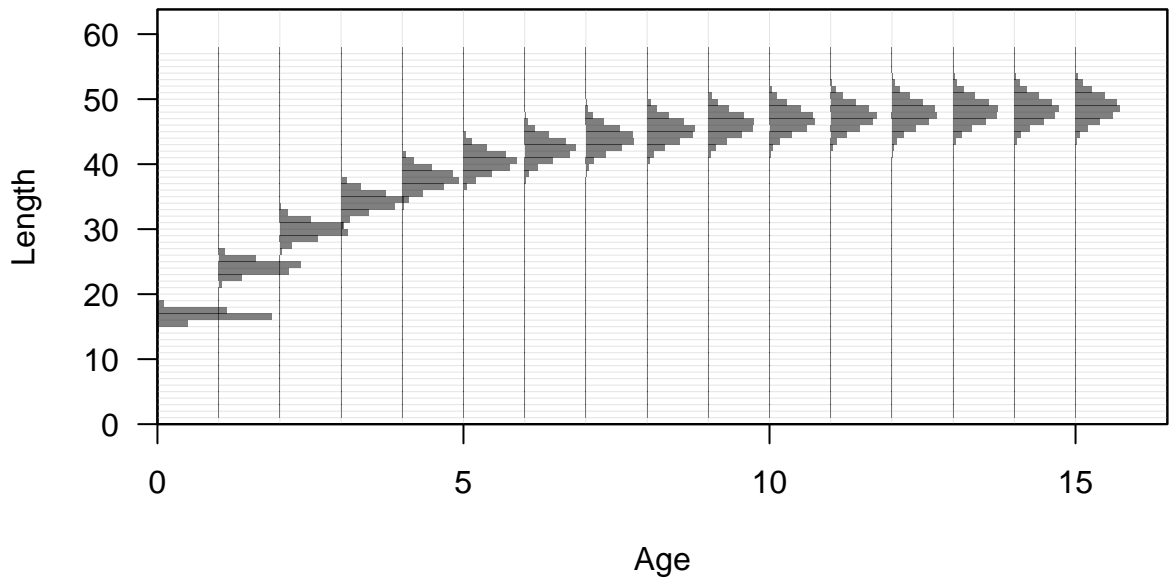


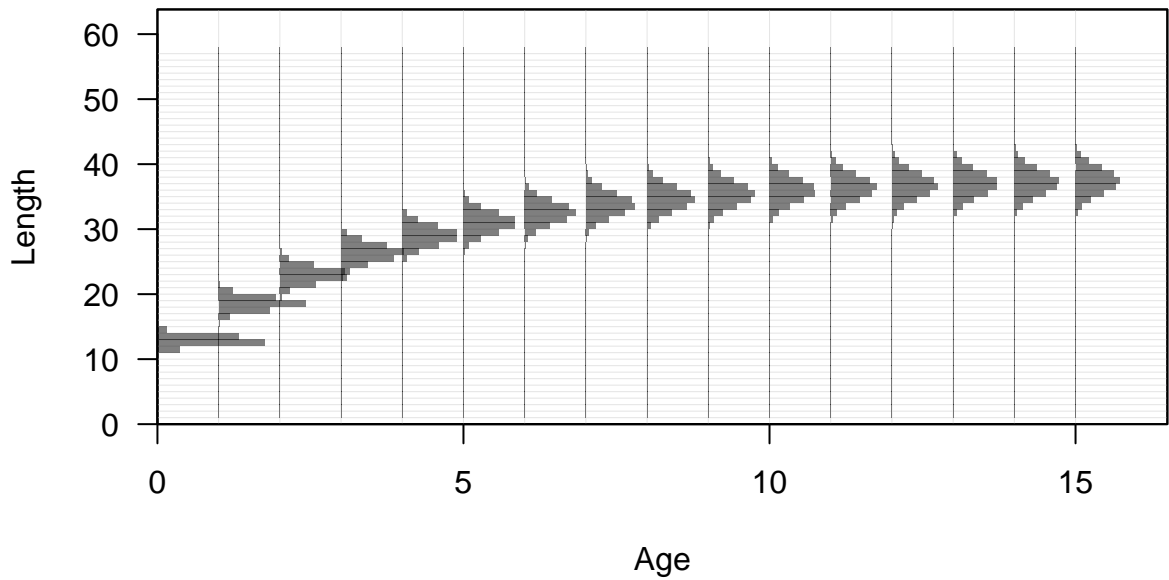


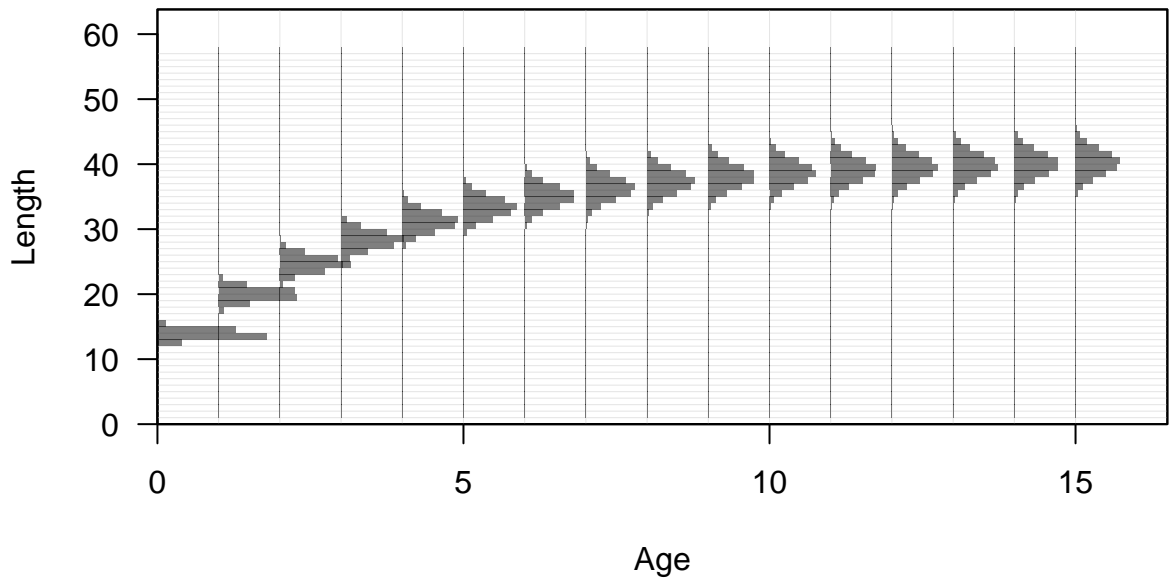


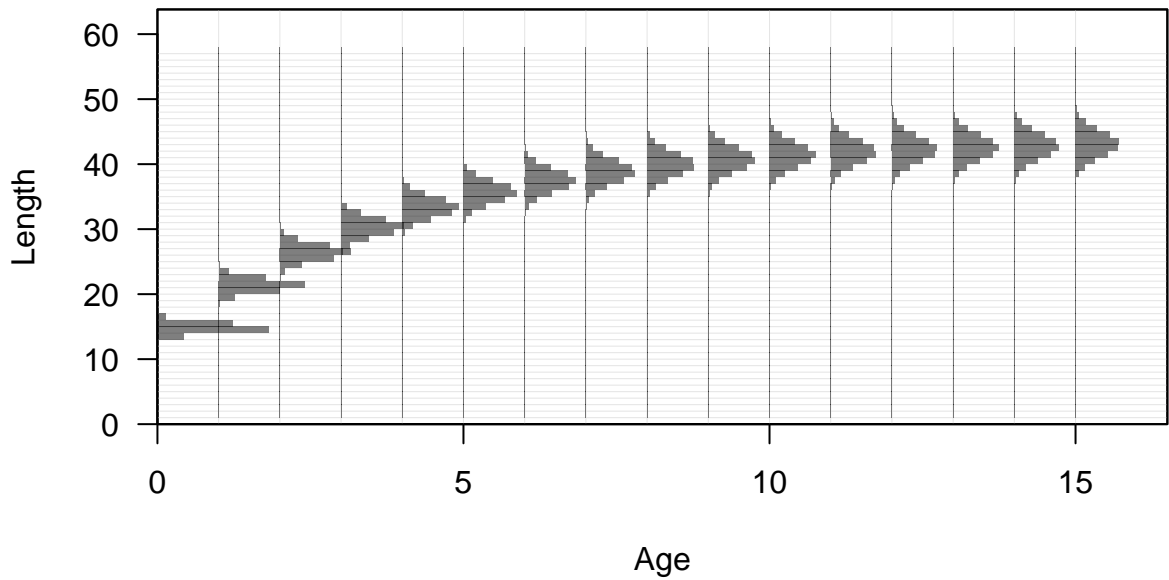


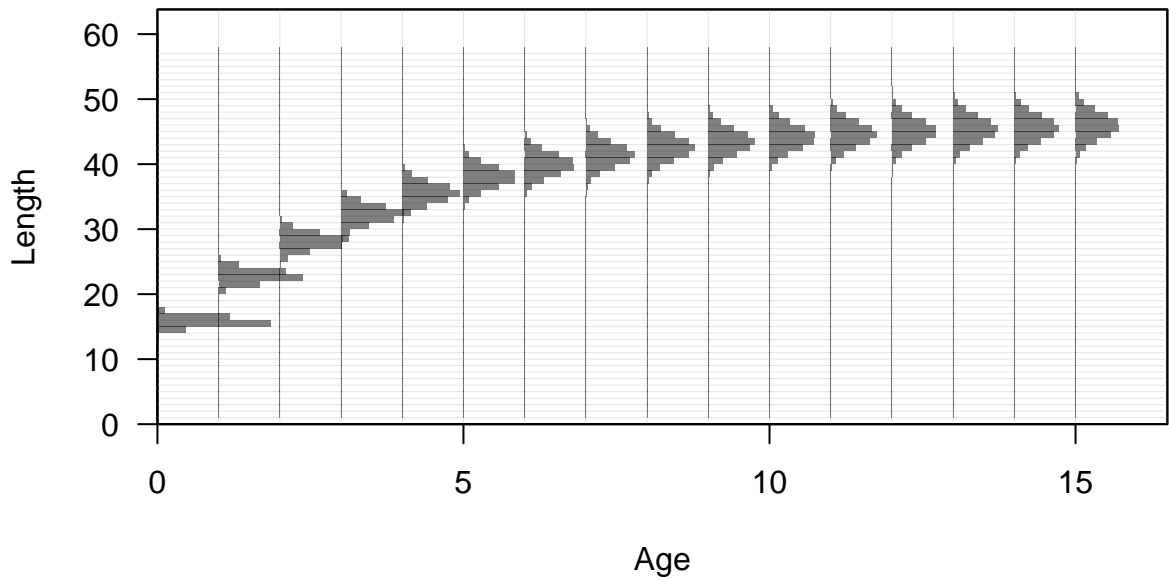


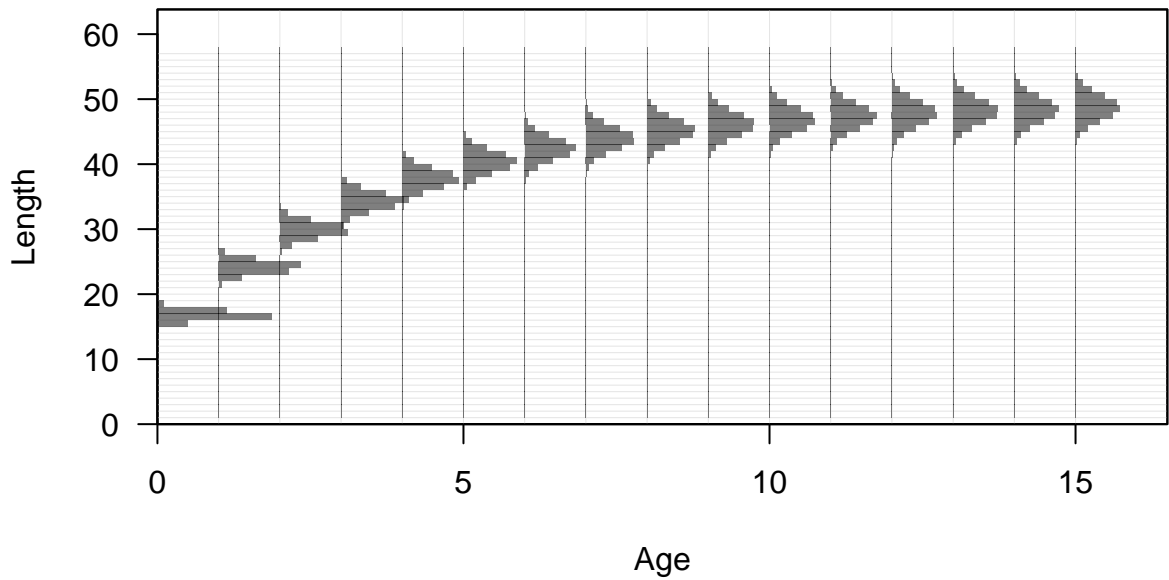






















Fecundity



Fecundity



Spawning output

3

2

1

0

0

10

20

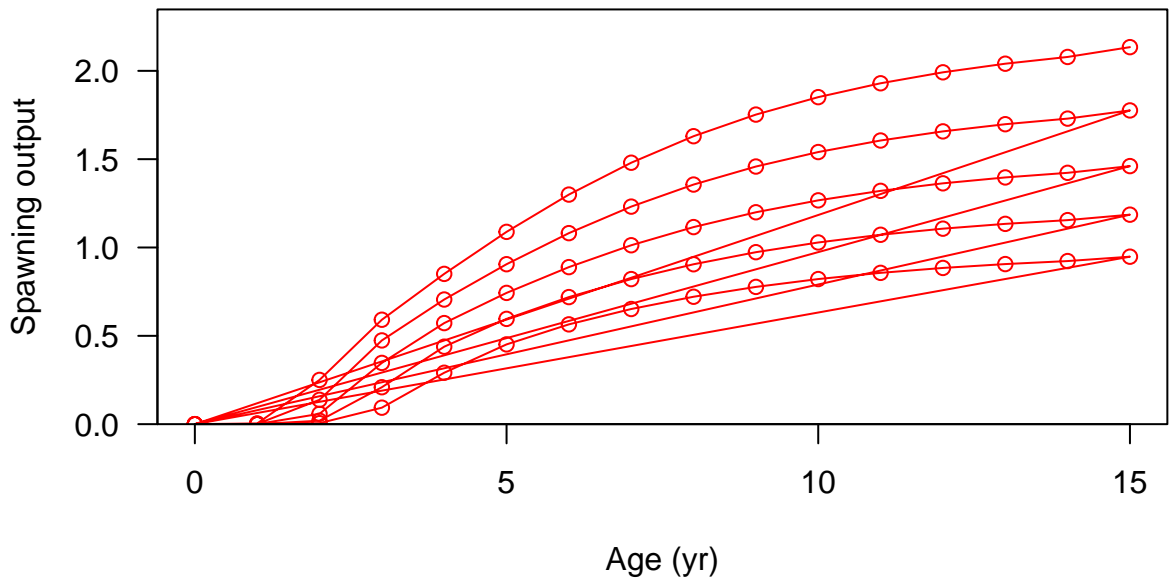
30

40

50

Length (cm)







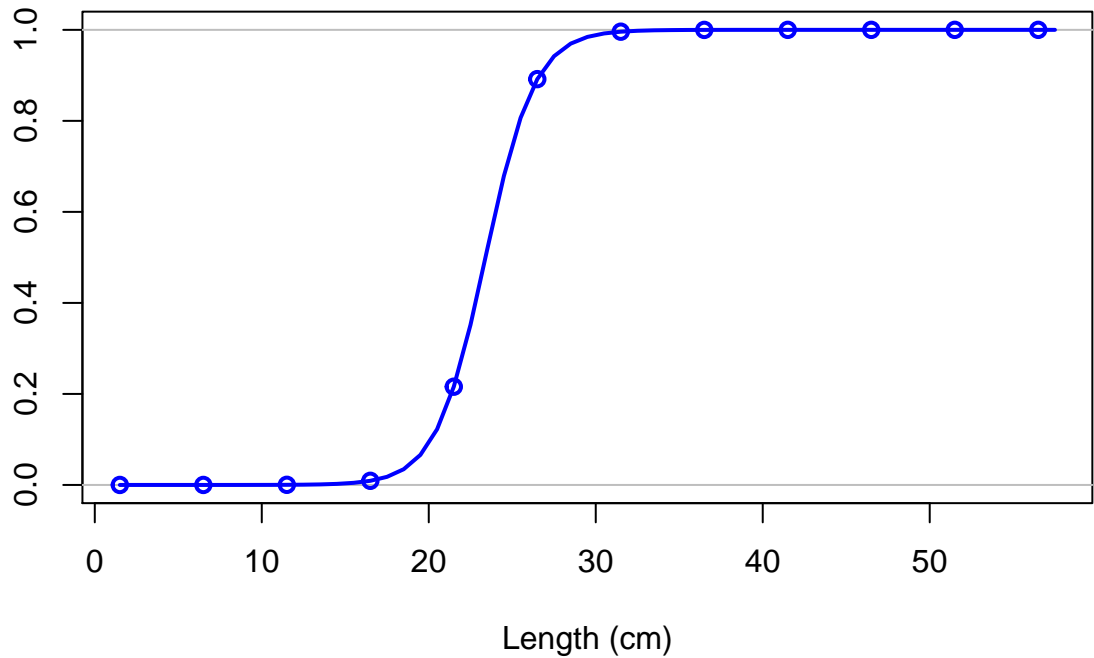
Hermaphroditism transition rate



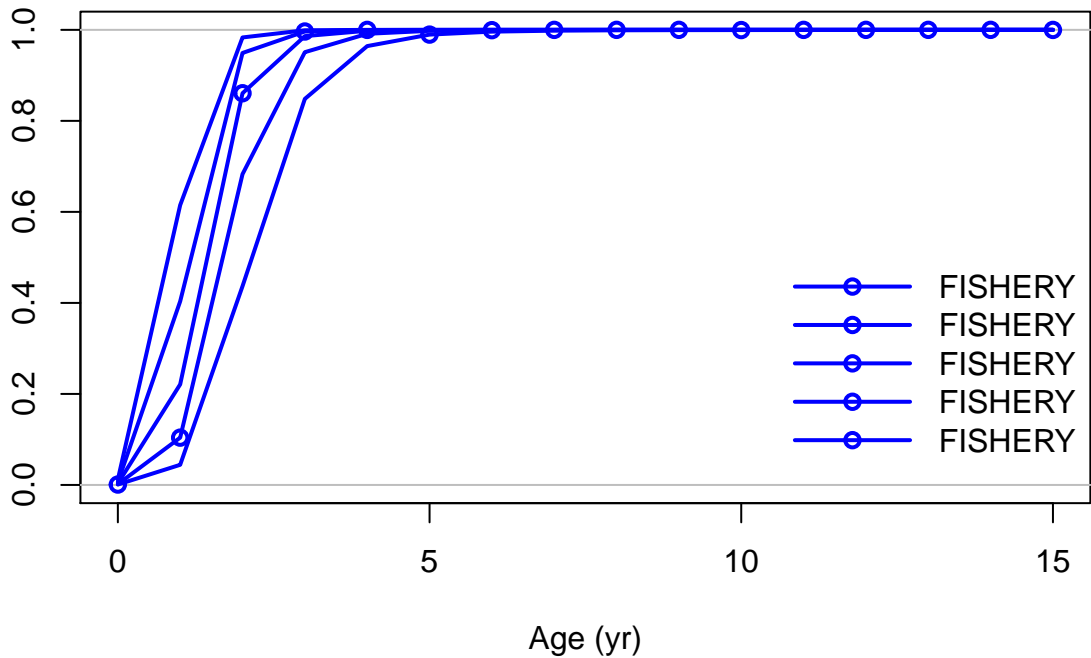
Fraction females by age at equilibrium



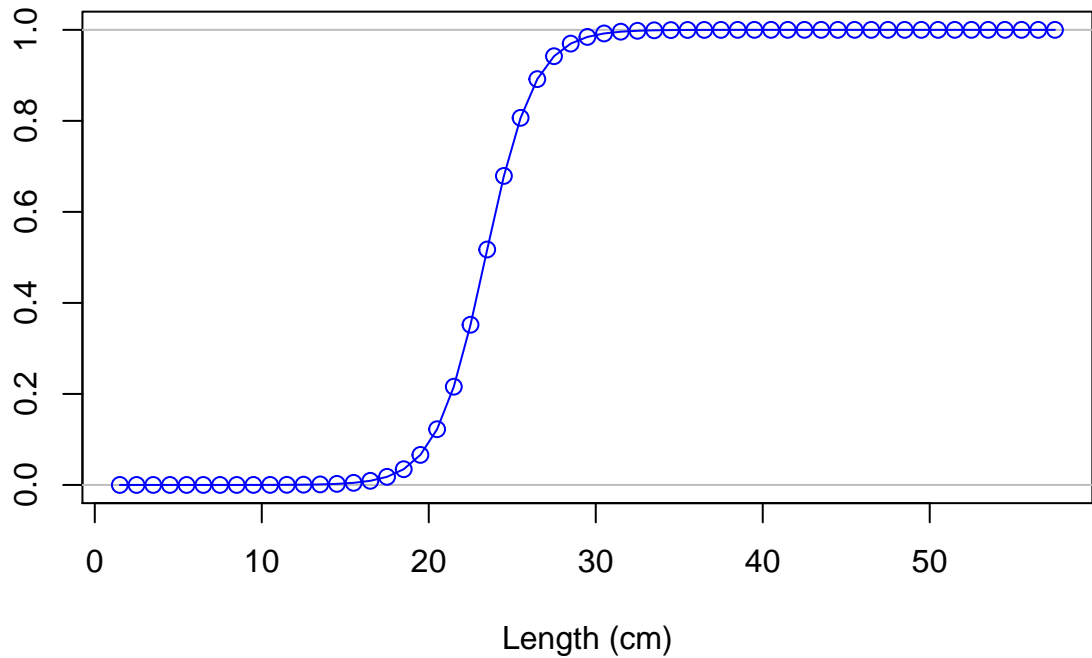
Selectivity



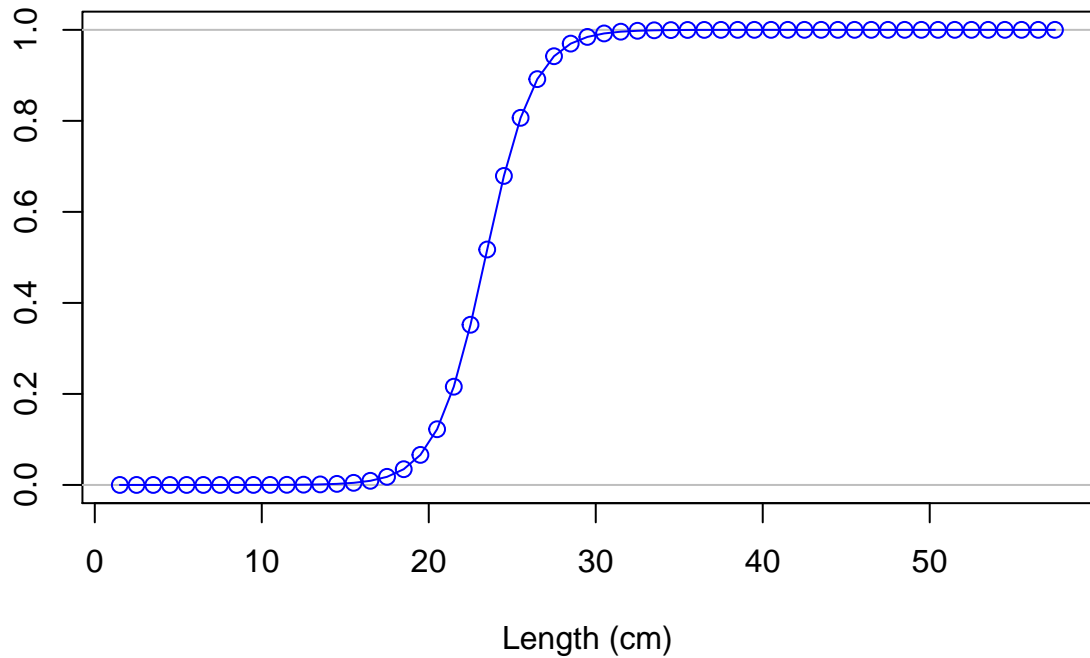
Selectivity

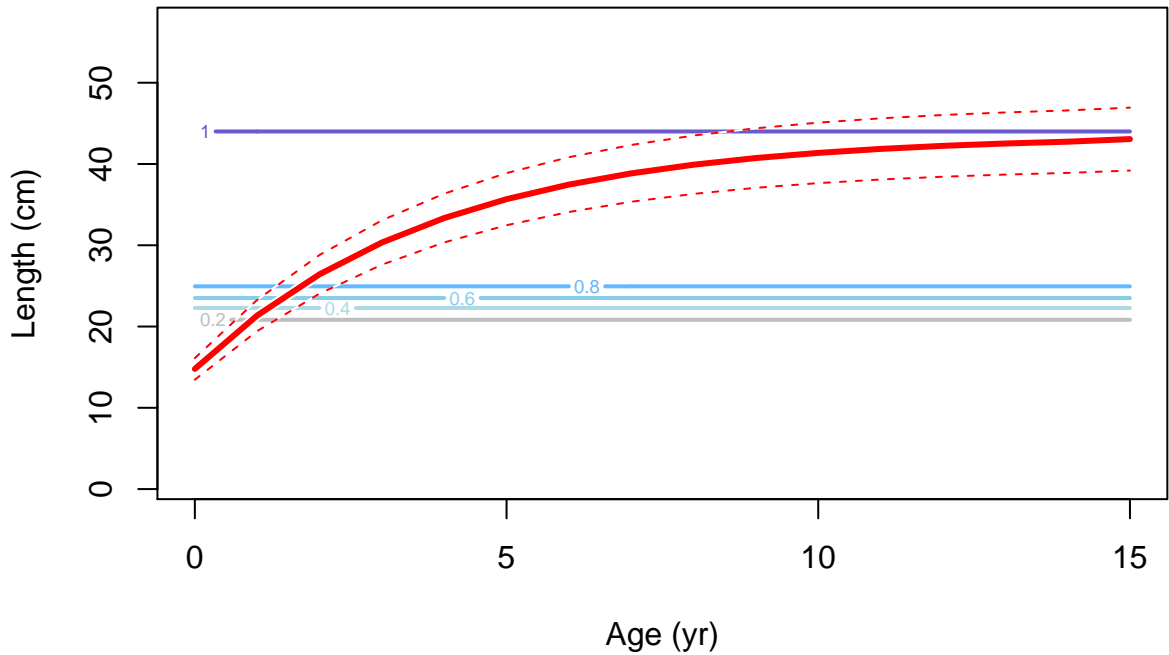


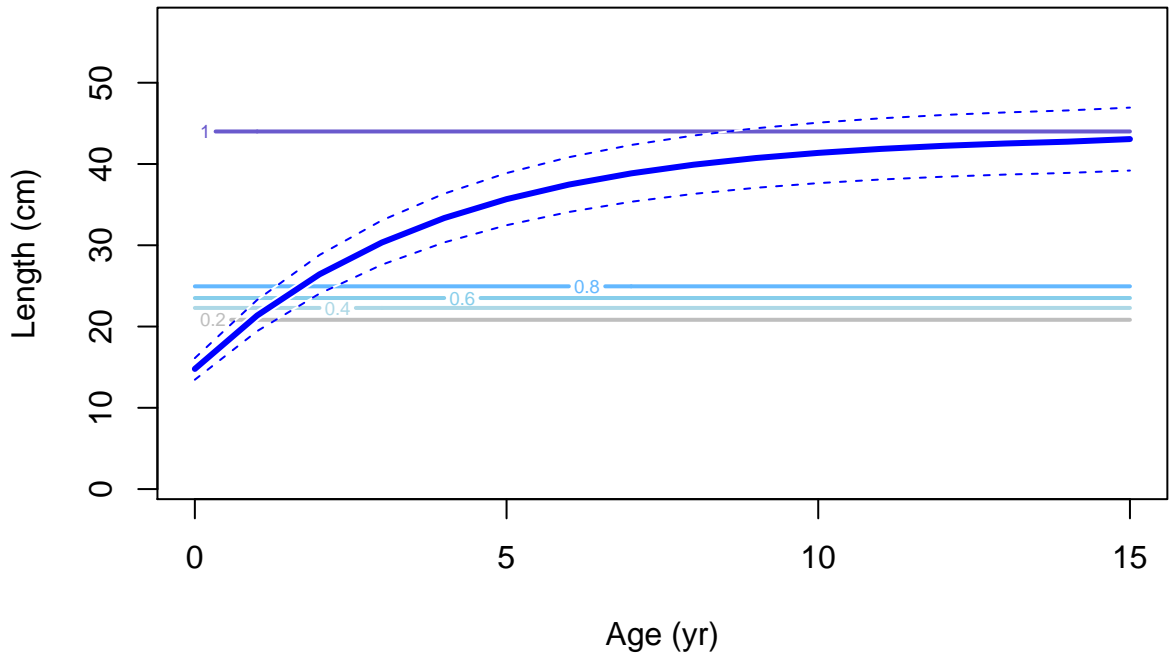
Selectivity



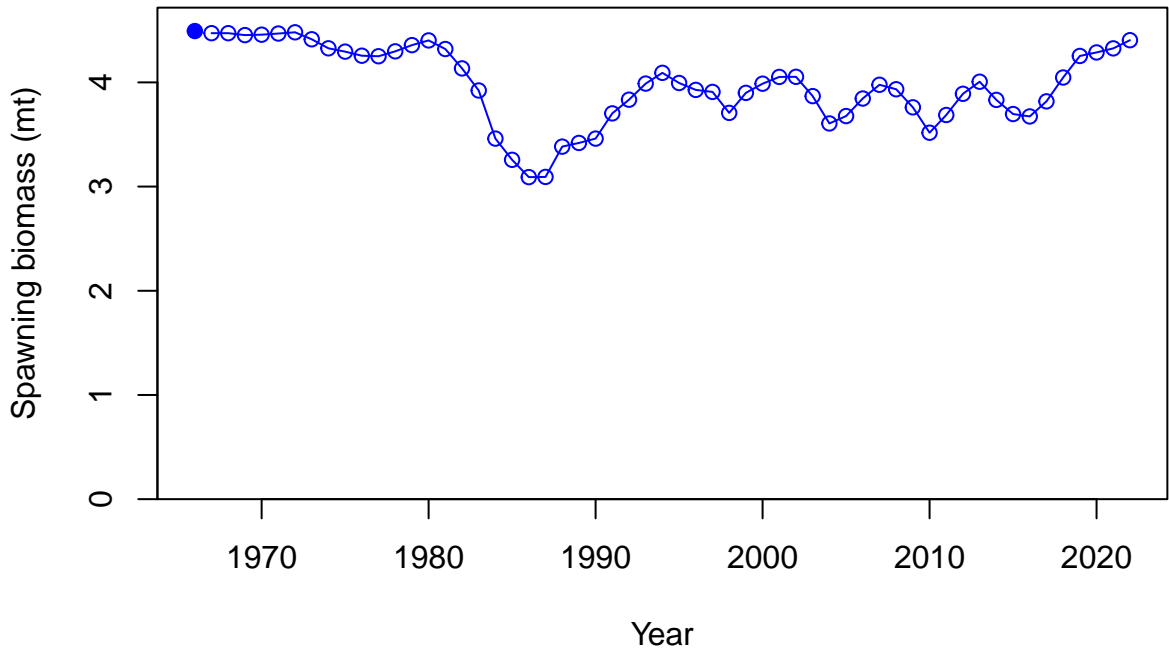
Selectivity



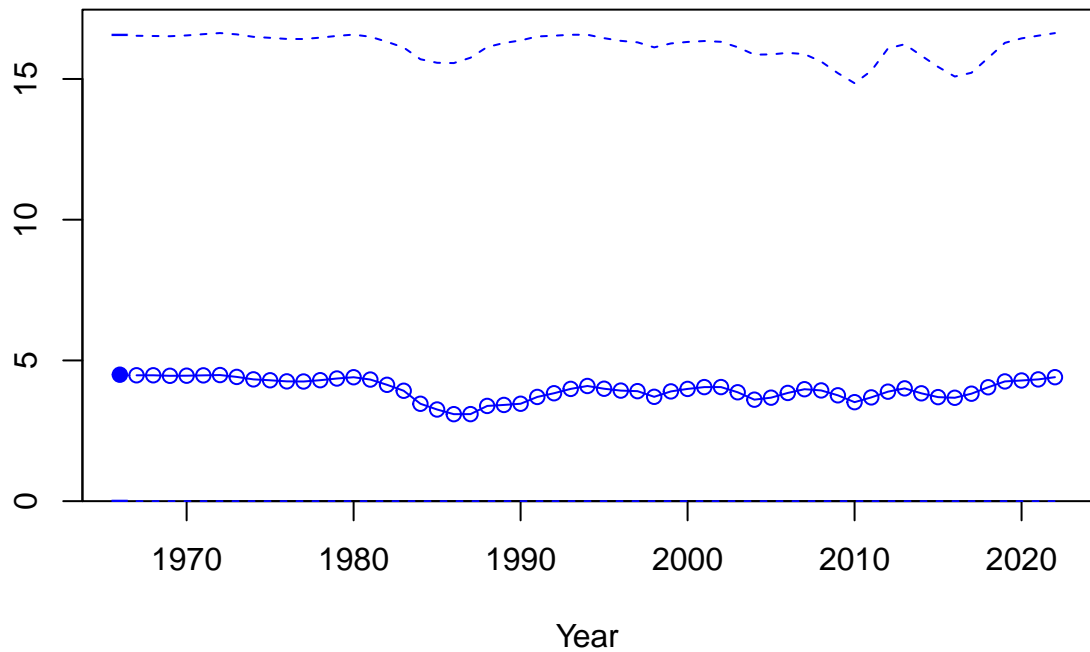




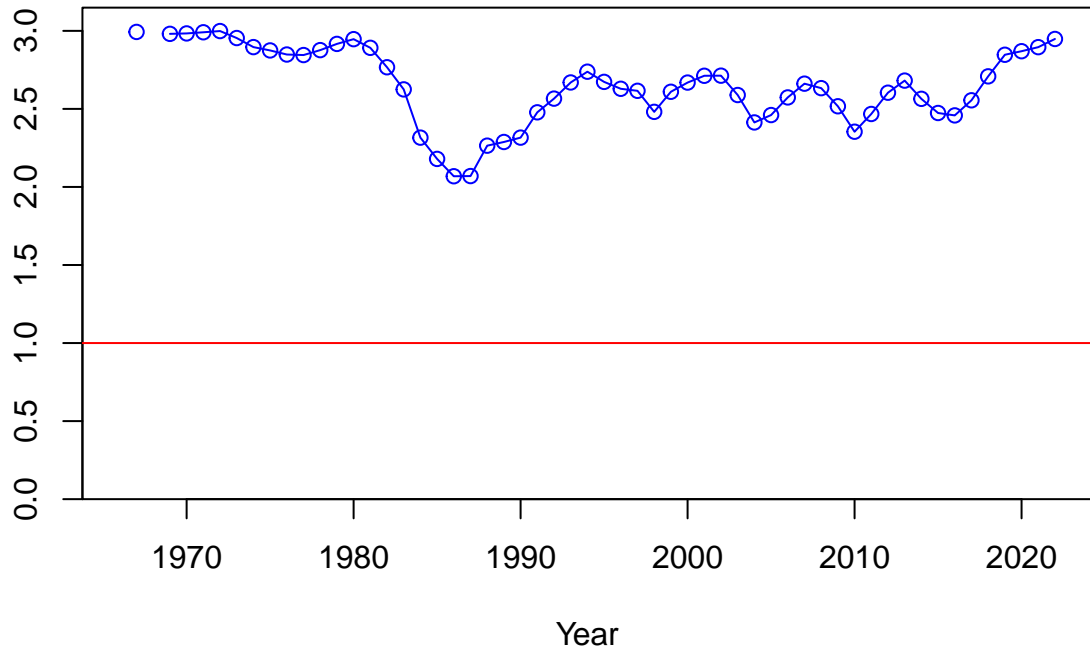




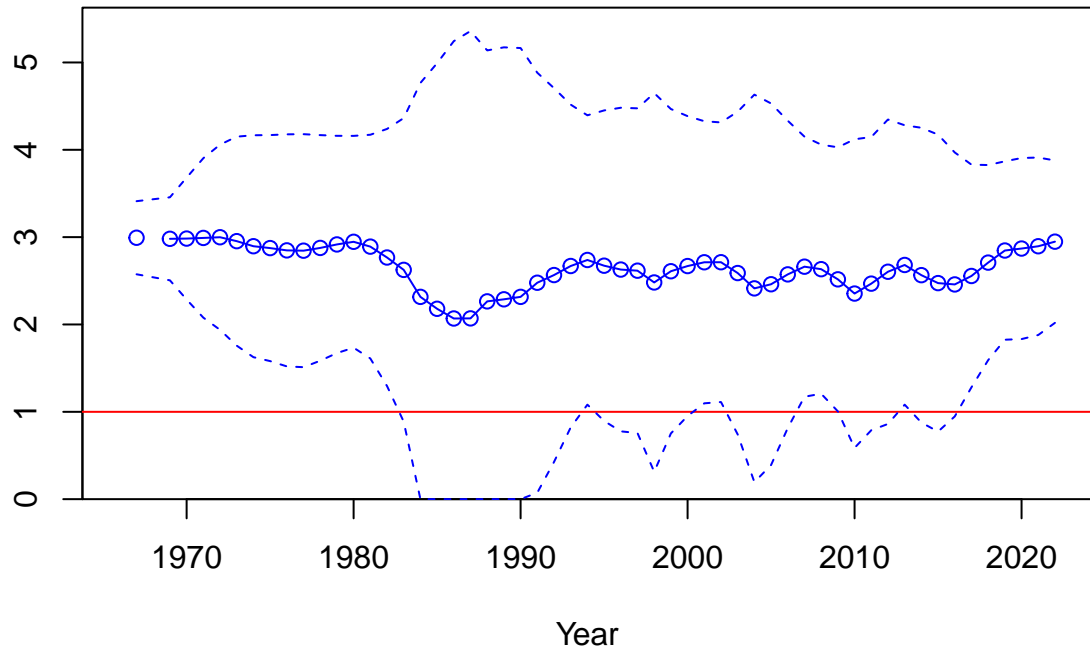
Spawning biomass (mt)

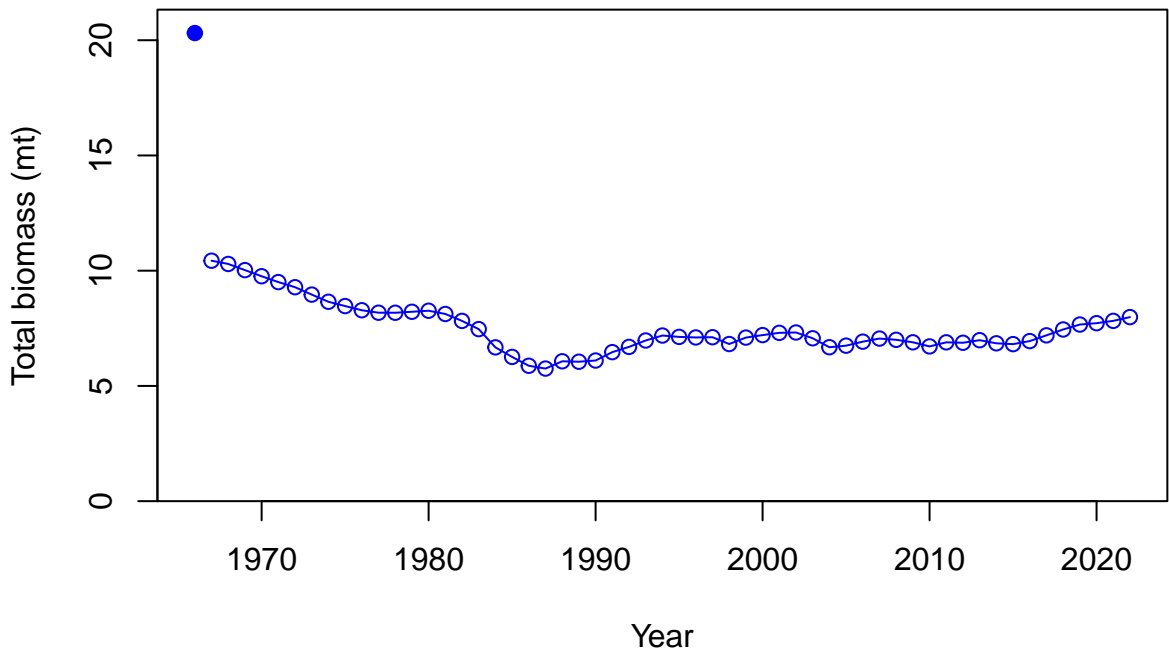


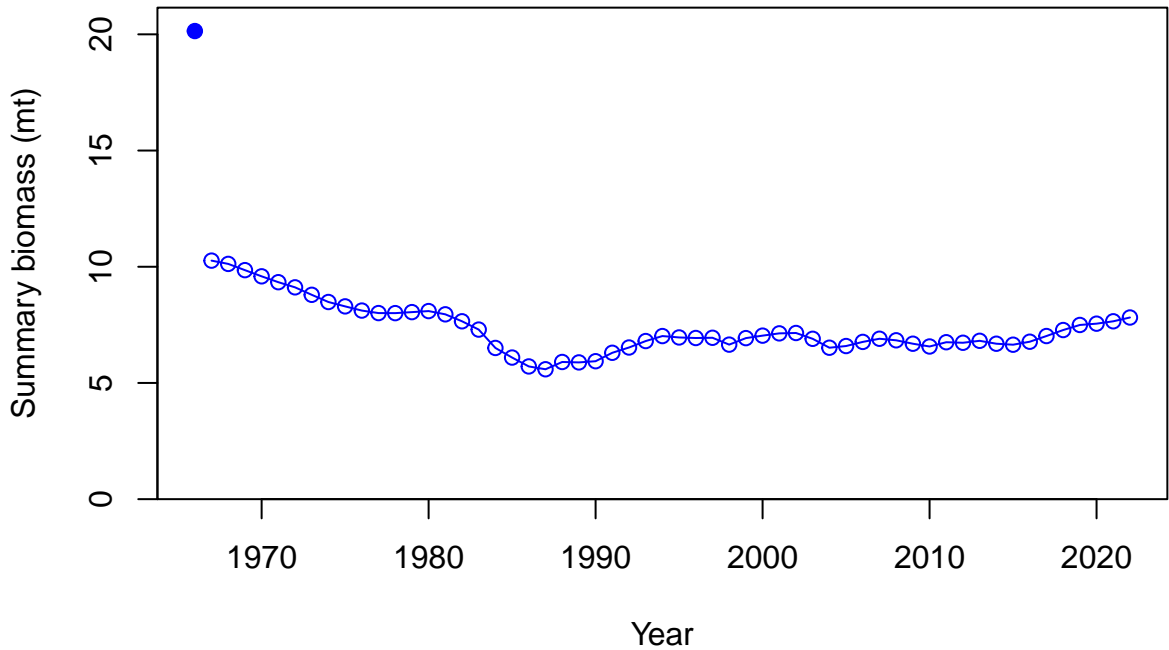
Relative spawning biomass:  $B/B_{MSY}$

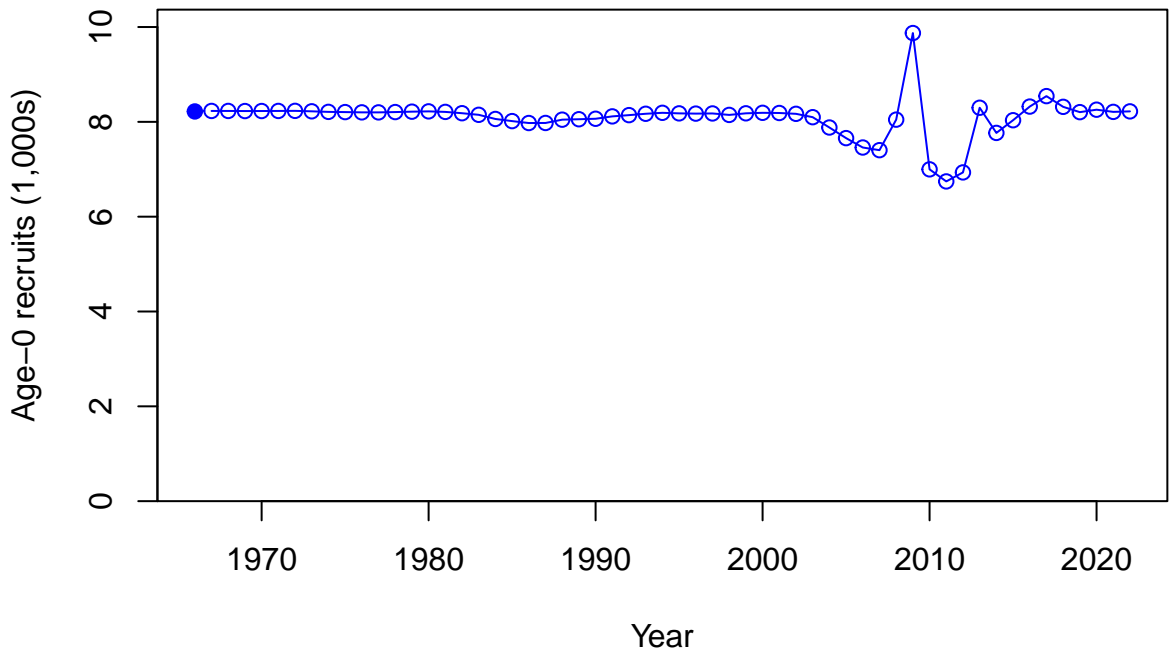


Relative spawning biomass:  $B/B_{MSY}$

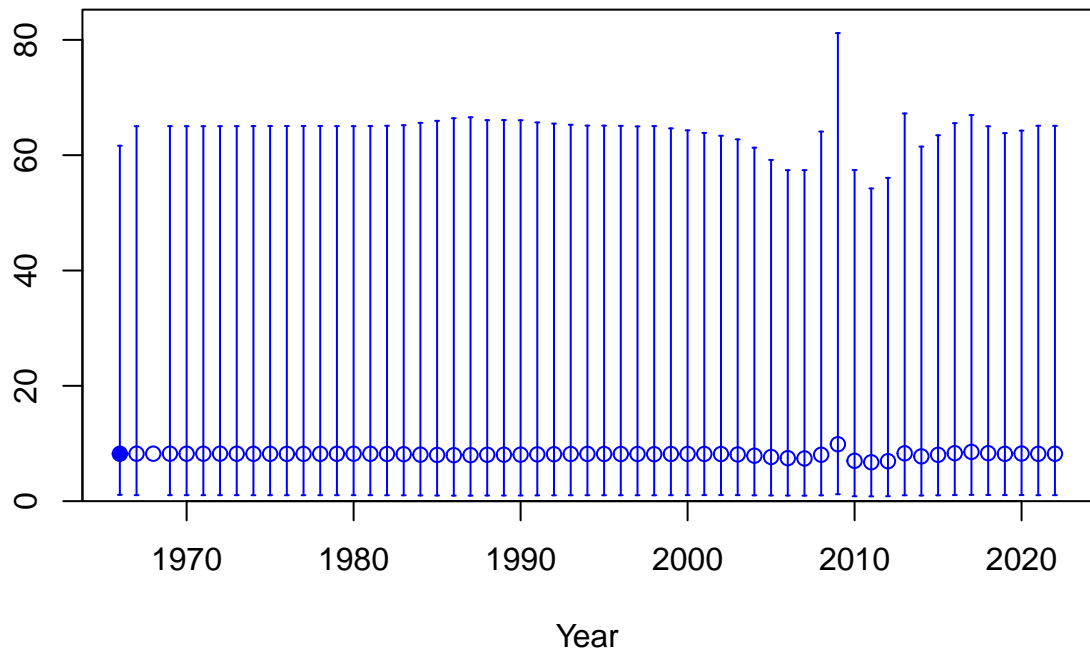






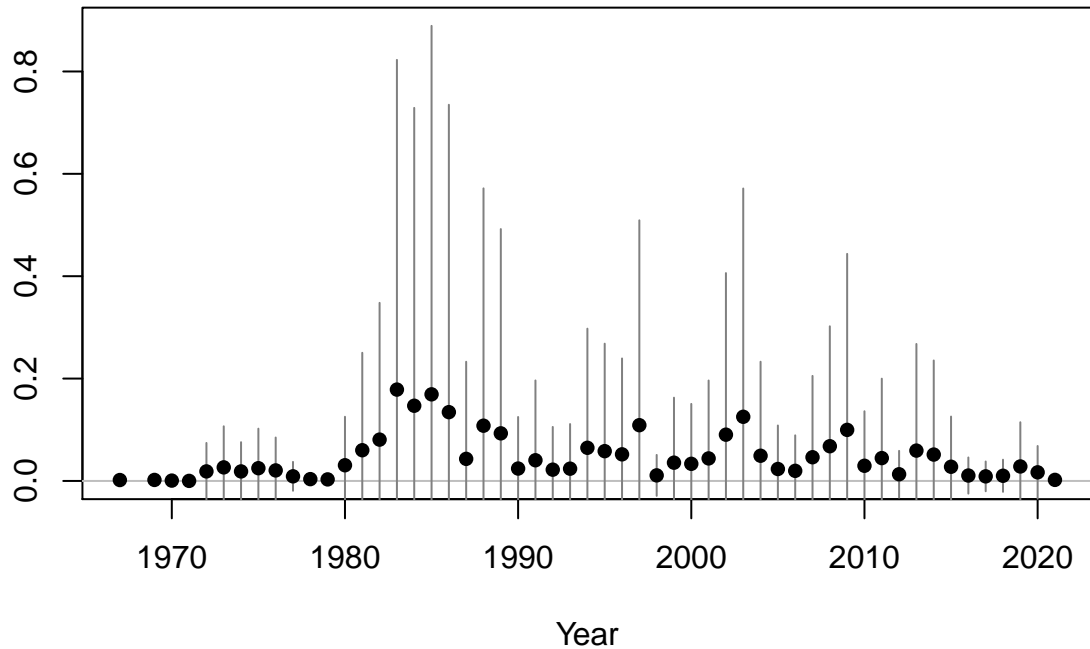


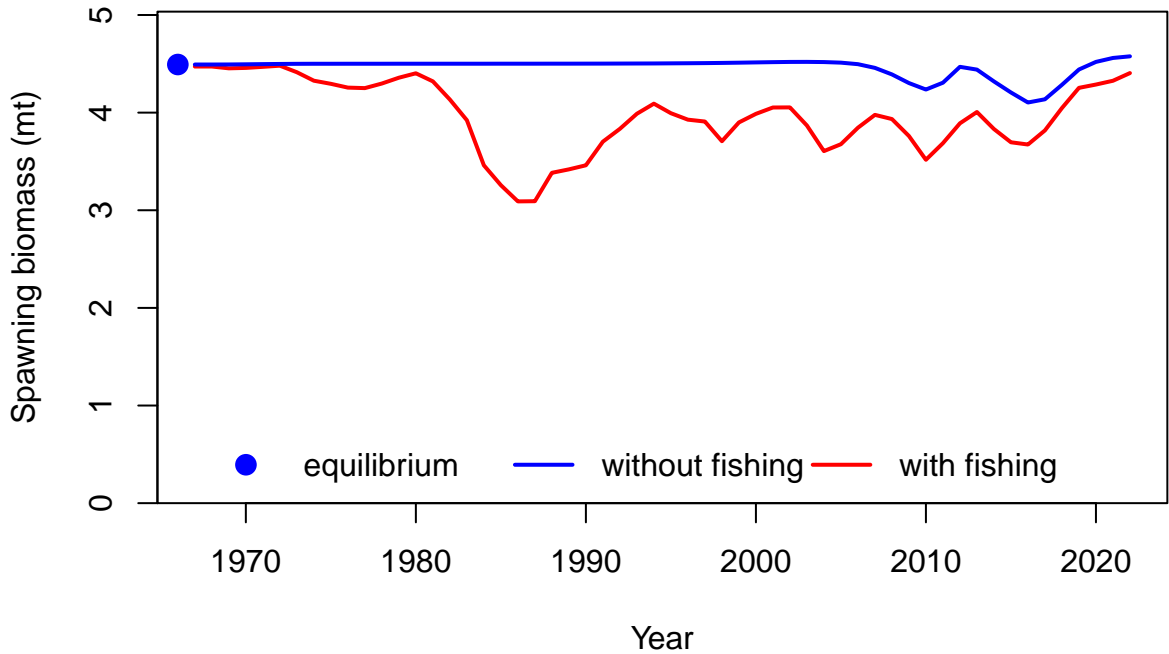
Age-0 recruits (1,000s)



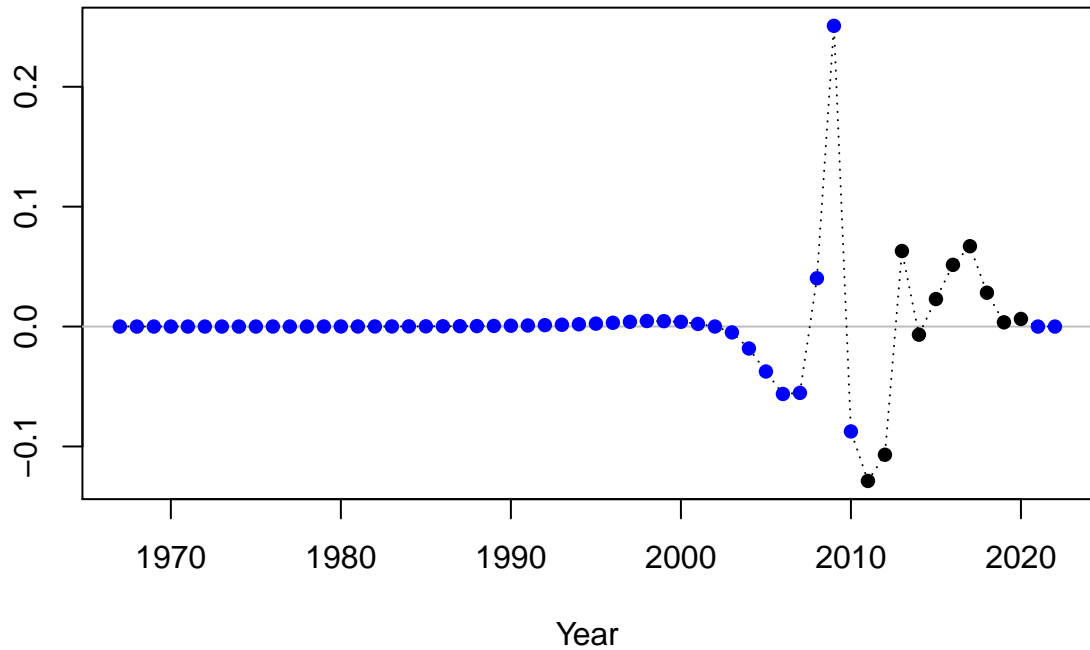


Summary Fishing Mortality

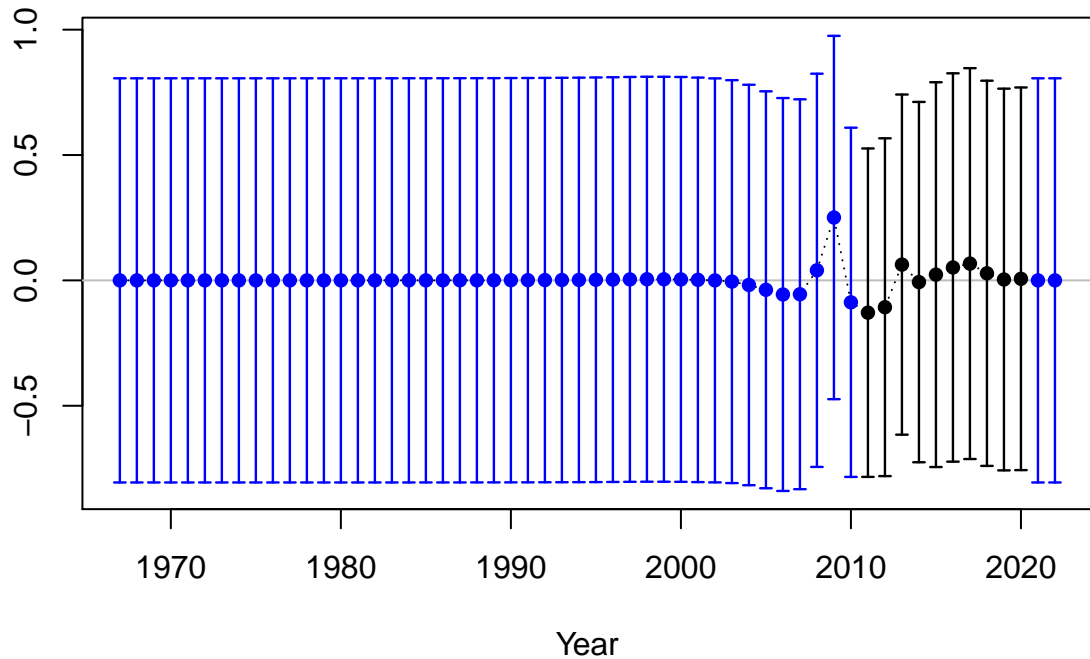




Log recruitment deviation

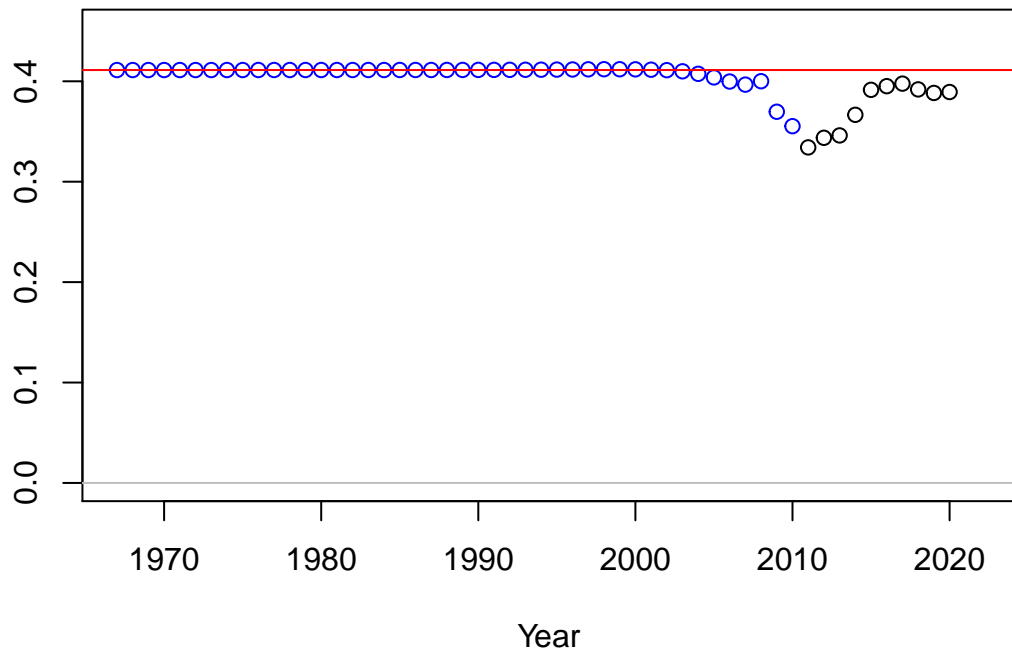


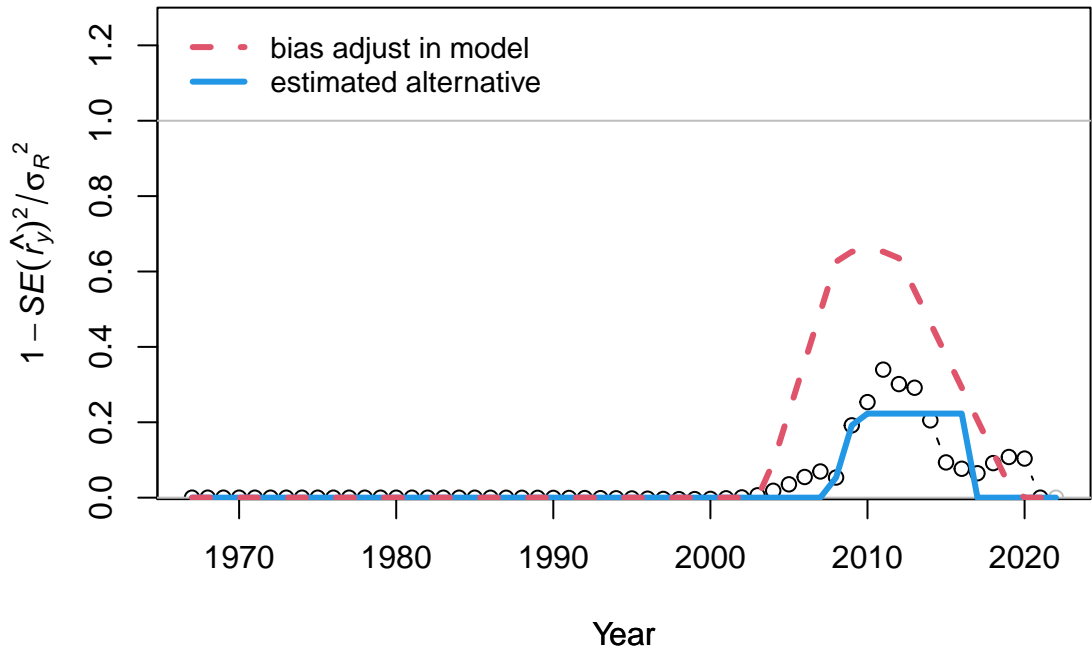
Log recruitment deviation

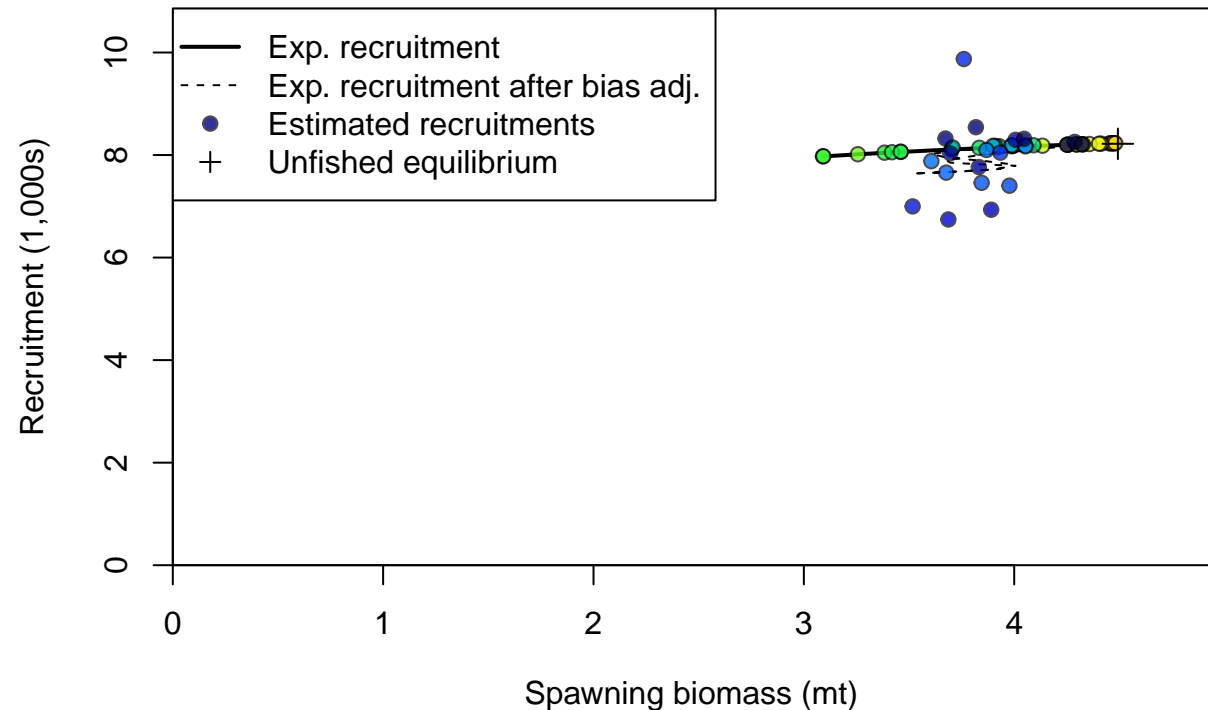


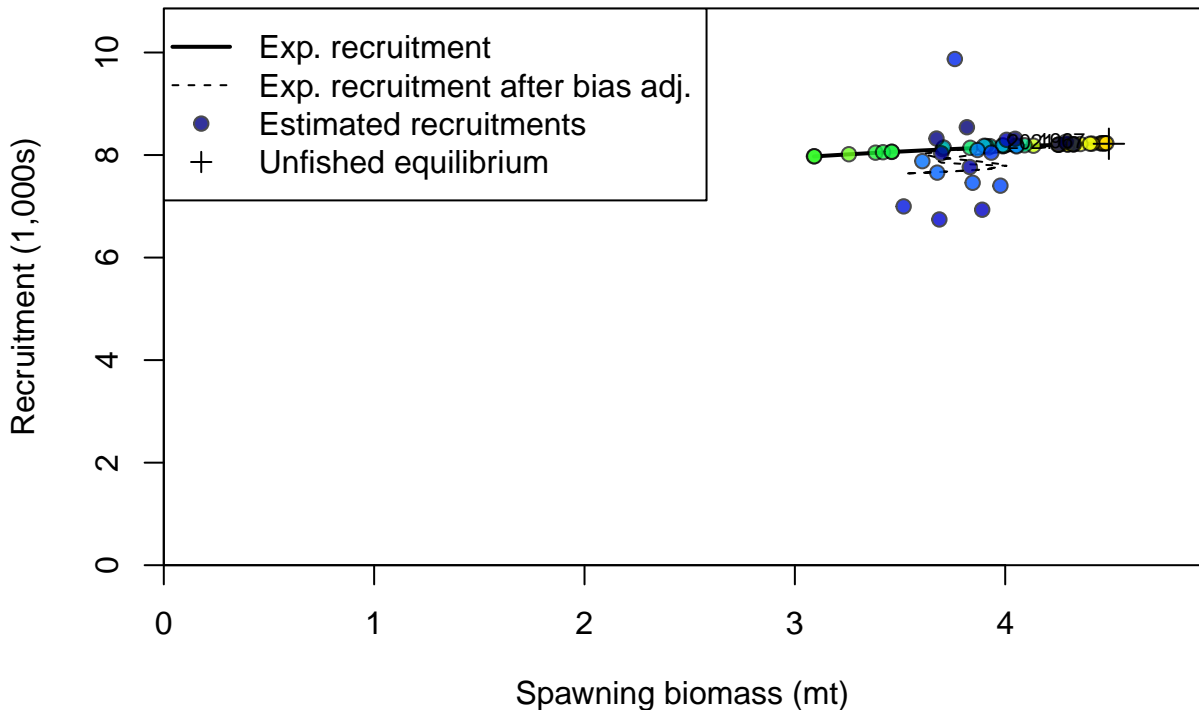
## Recruitment deviation variance

Asymptotic standard error estimate



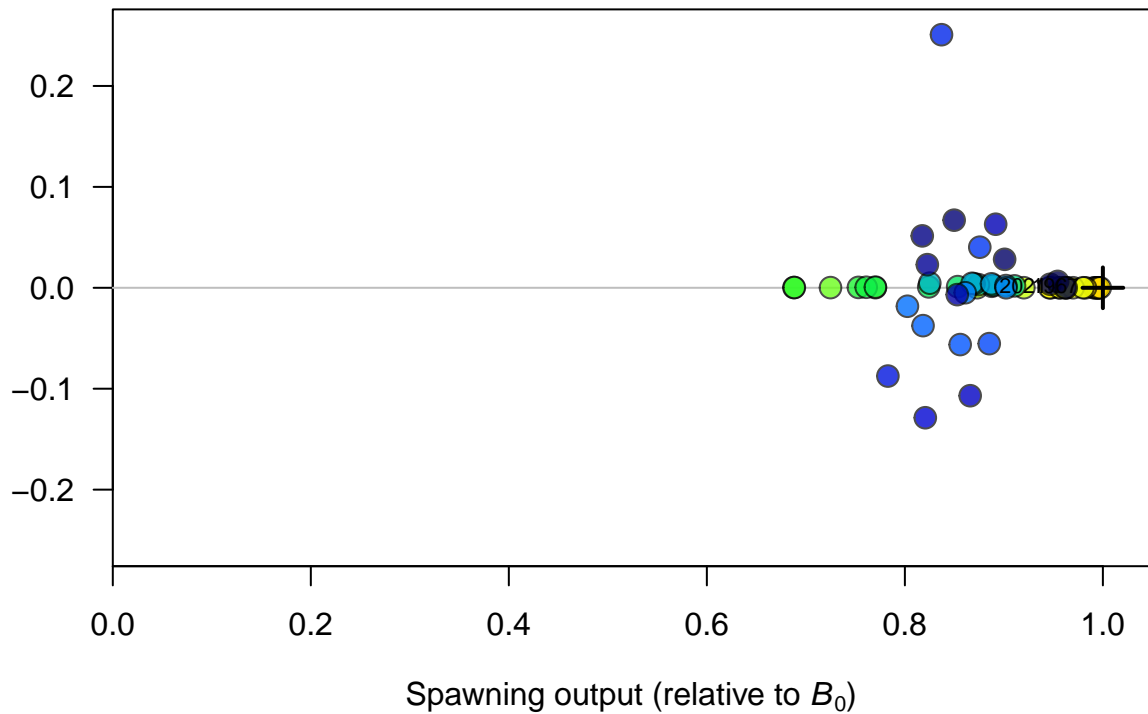


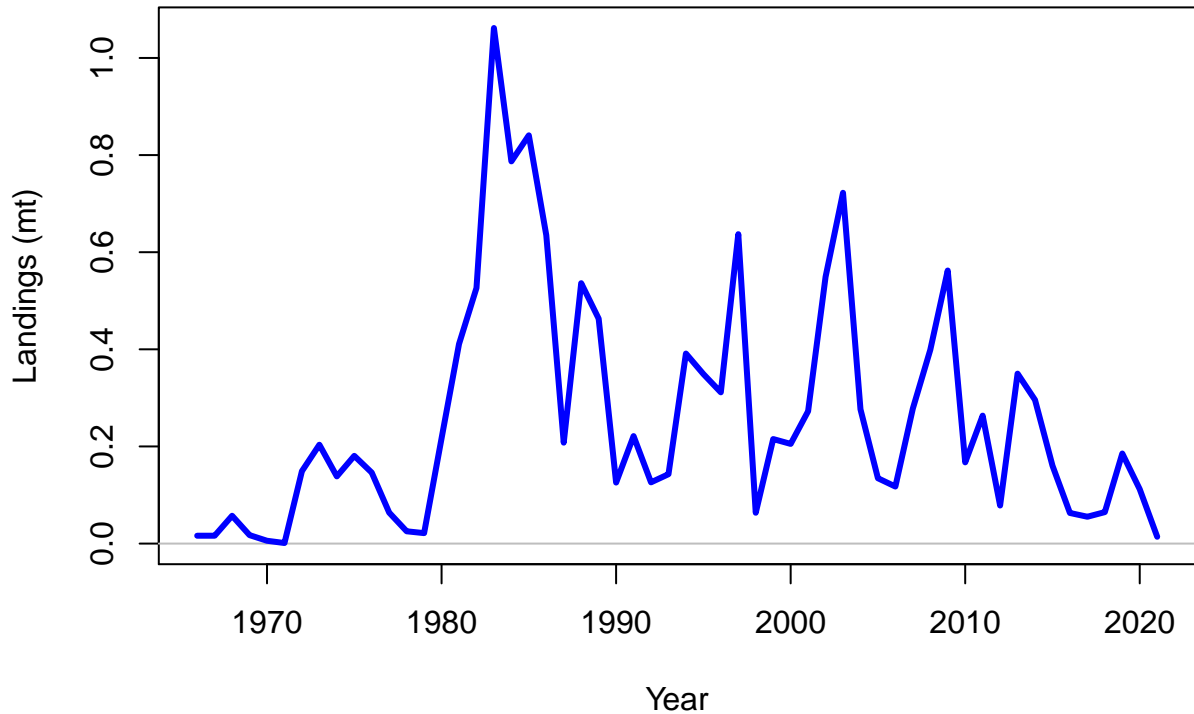


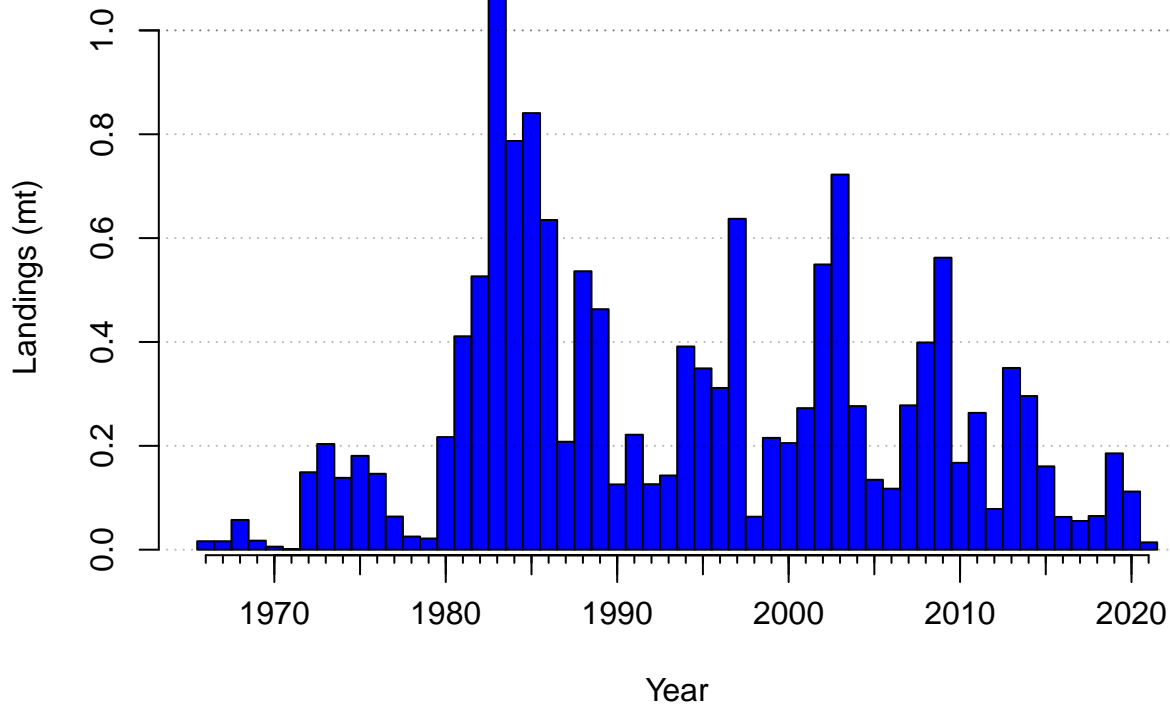


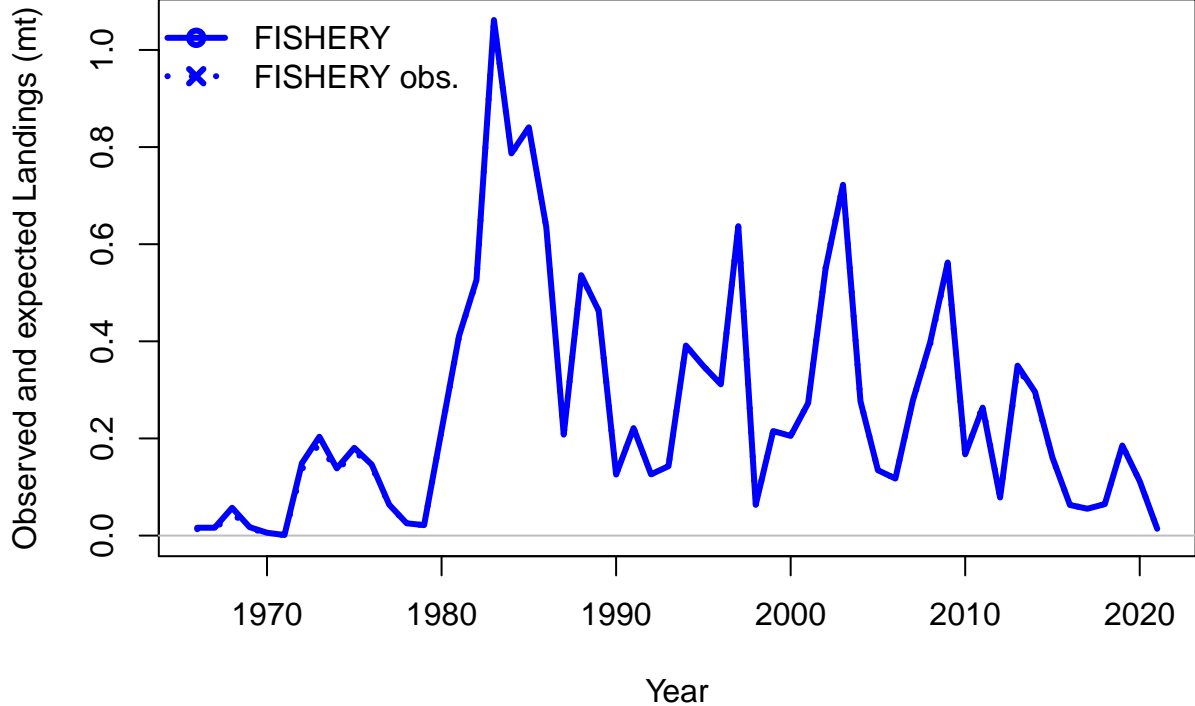


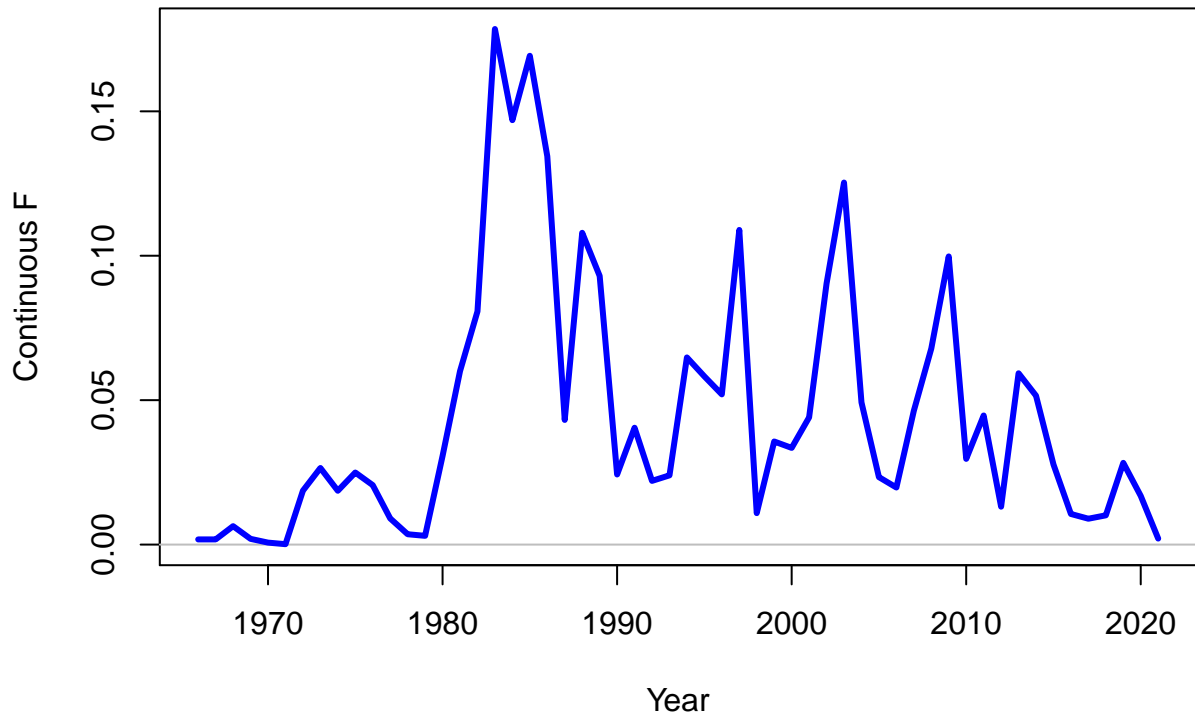
Log recruitment deviation



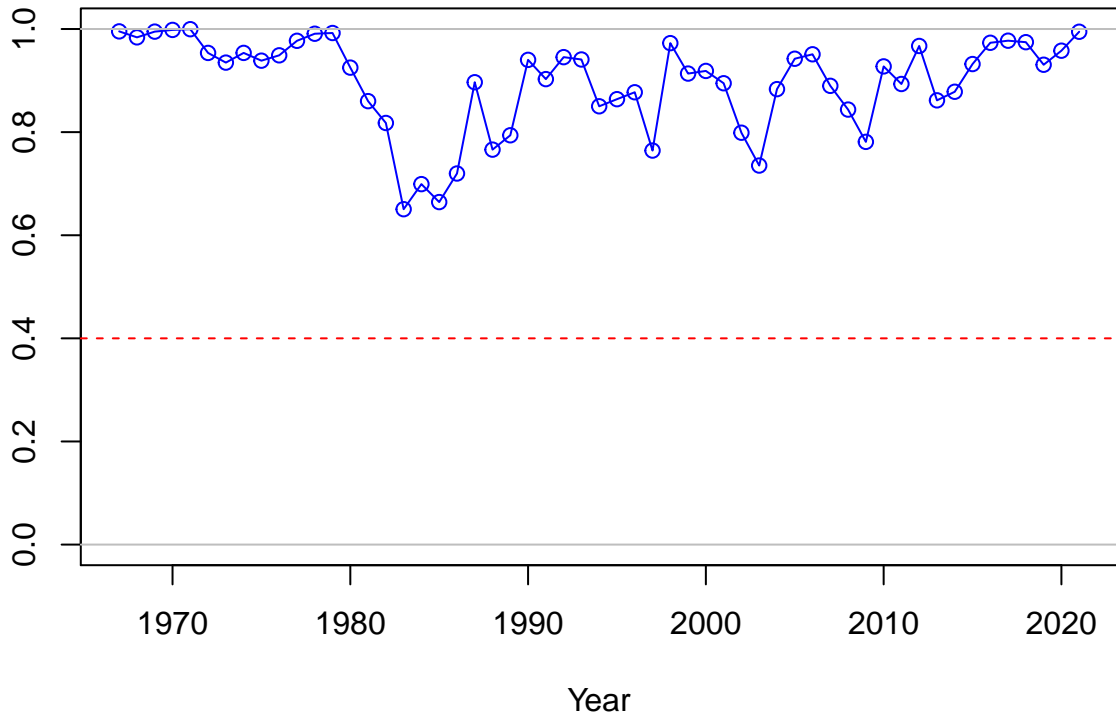




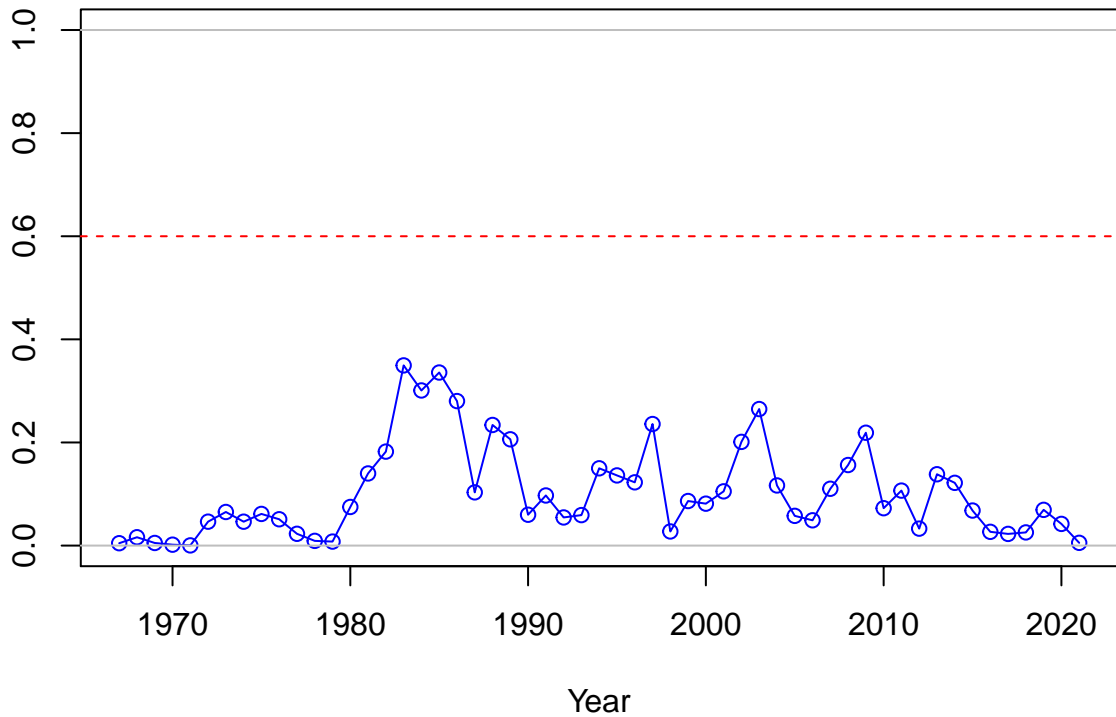




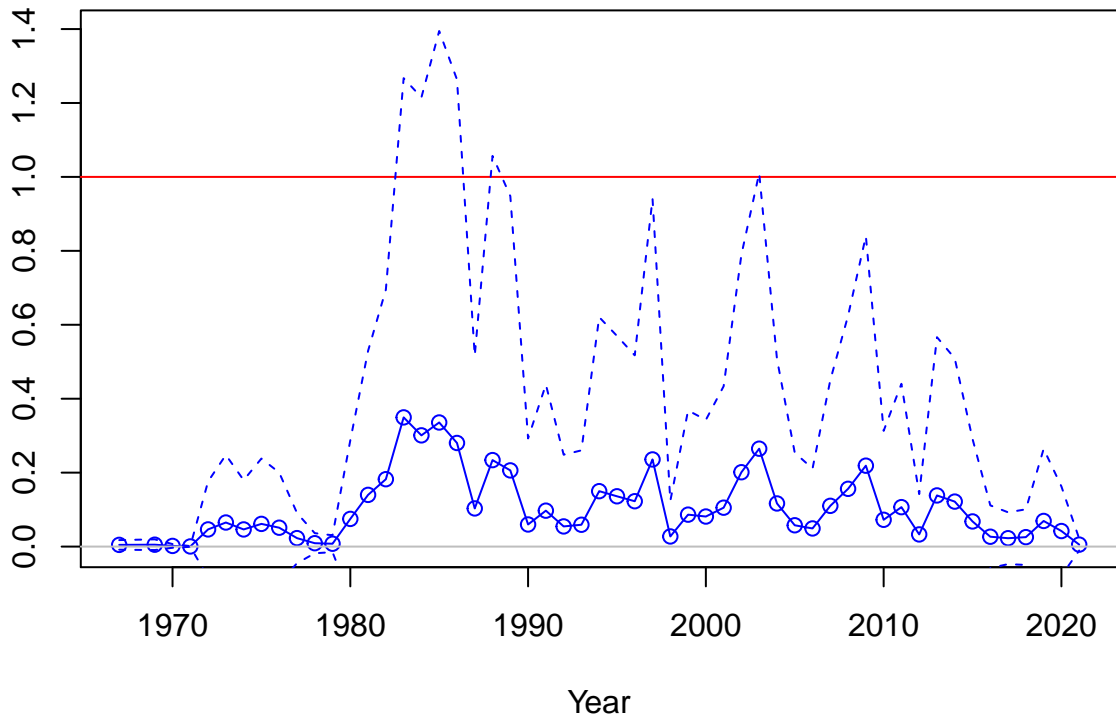
SPR



1-SPR

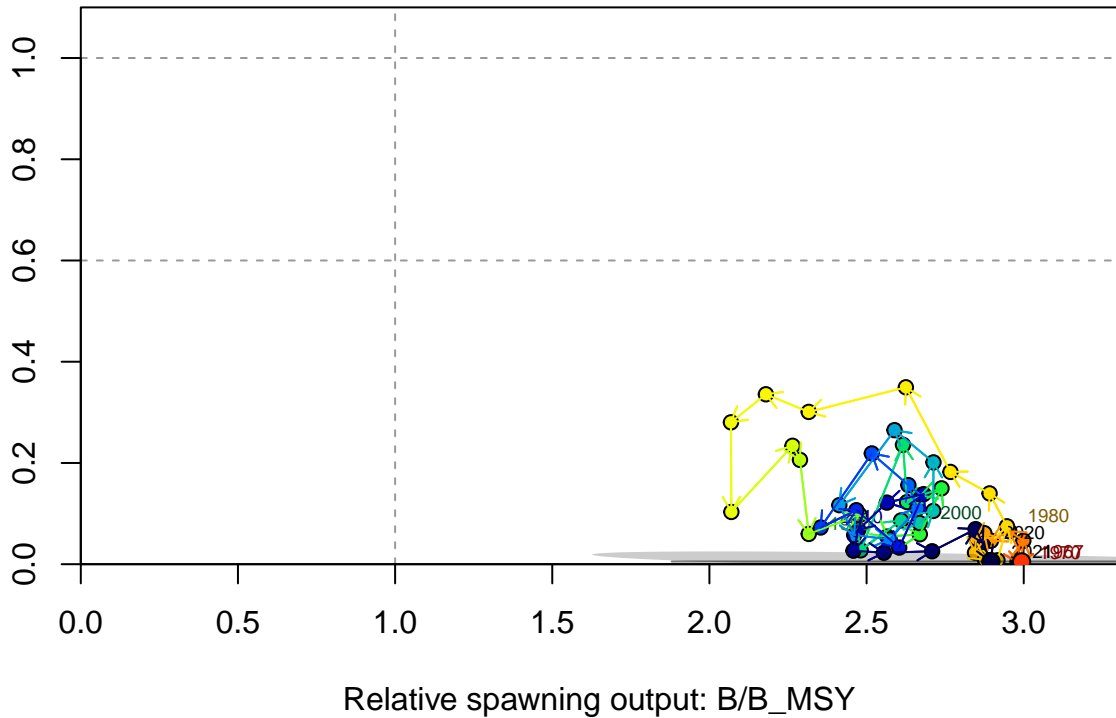


Fishing intensity: 1-SPR

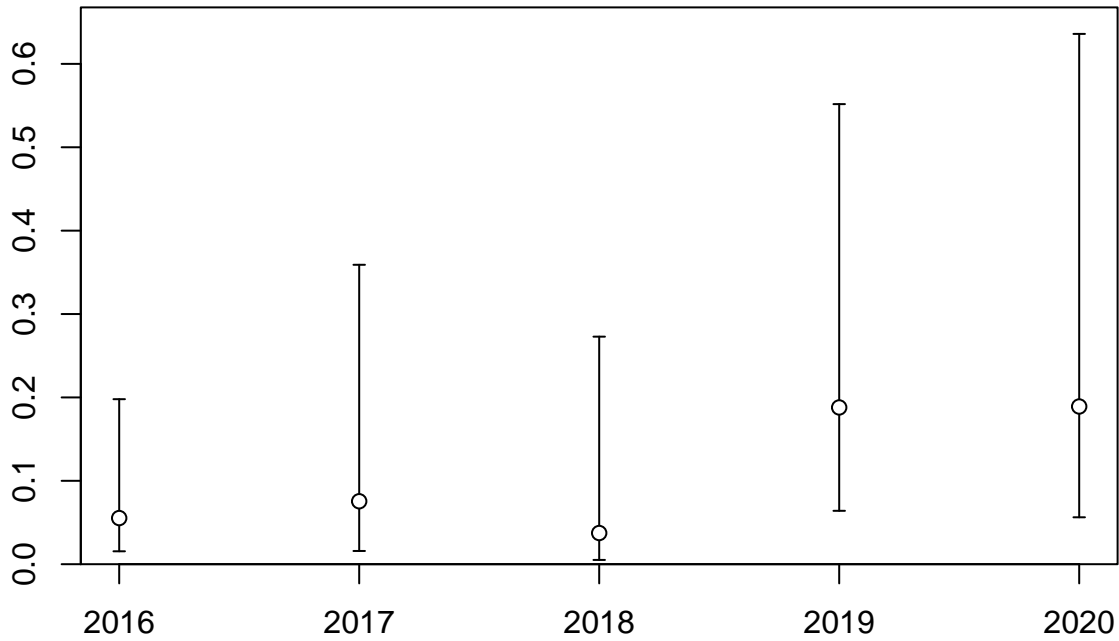




Fishing intensity: 1-SPR

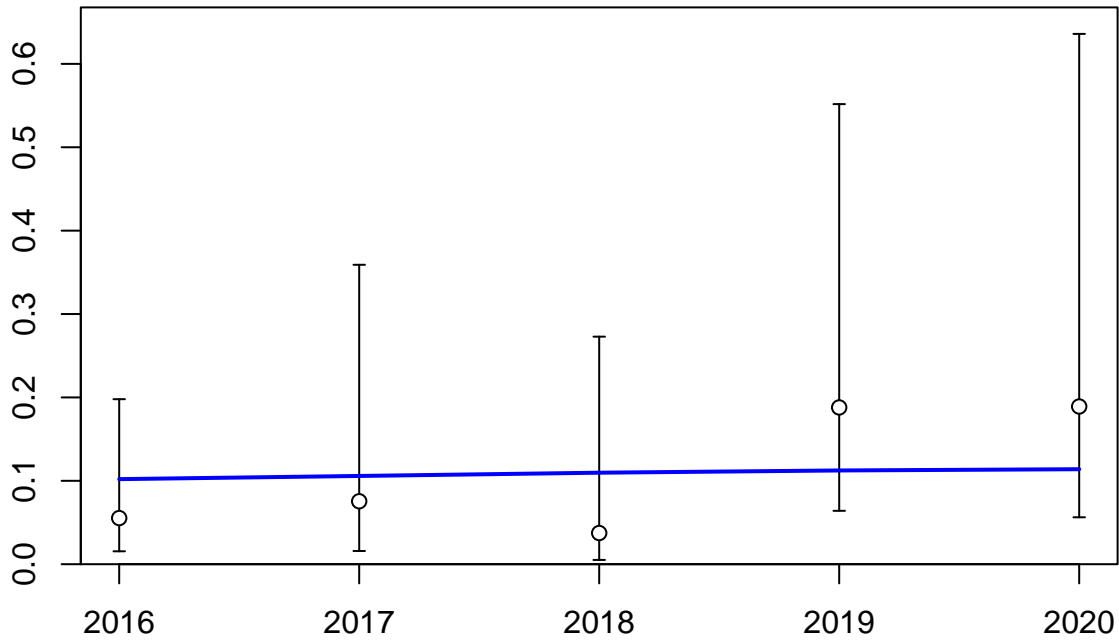


Index

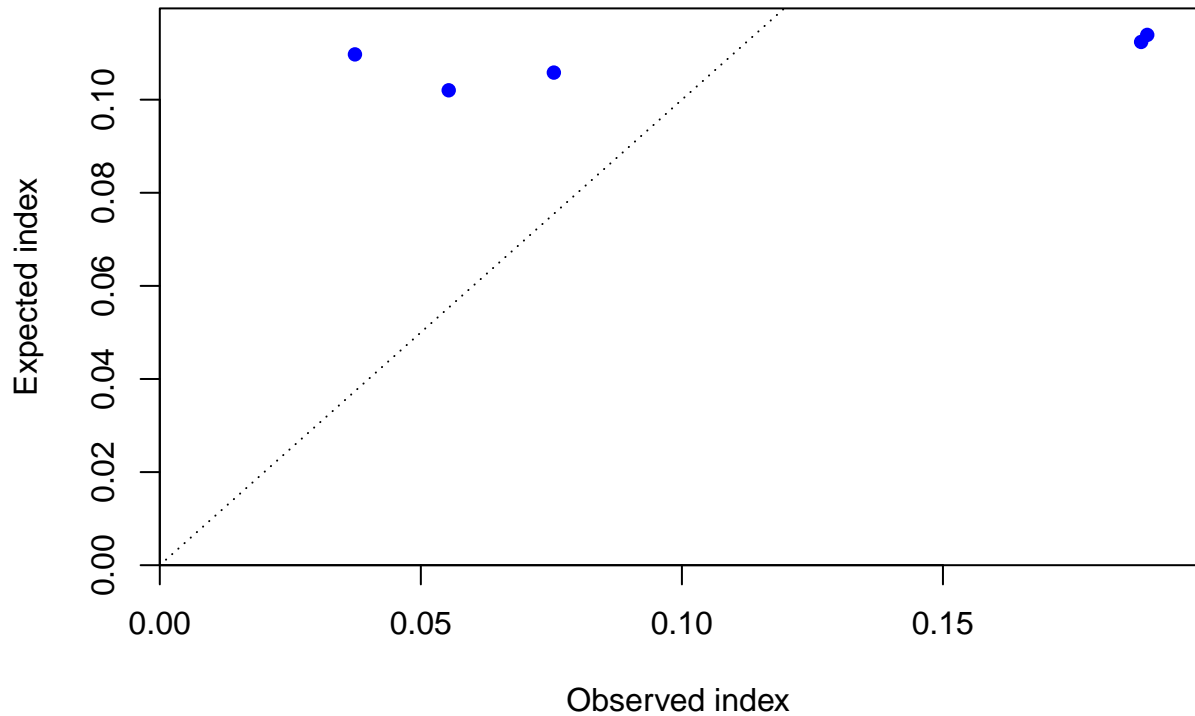


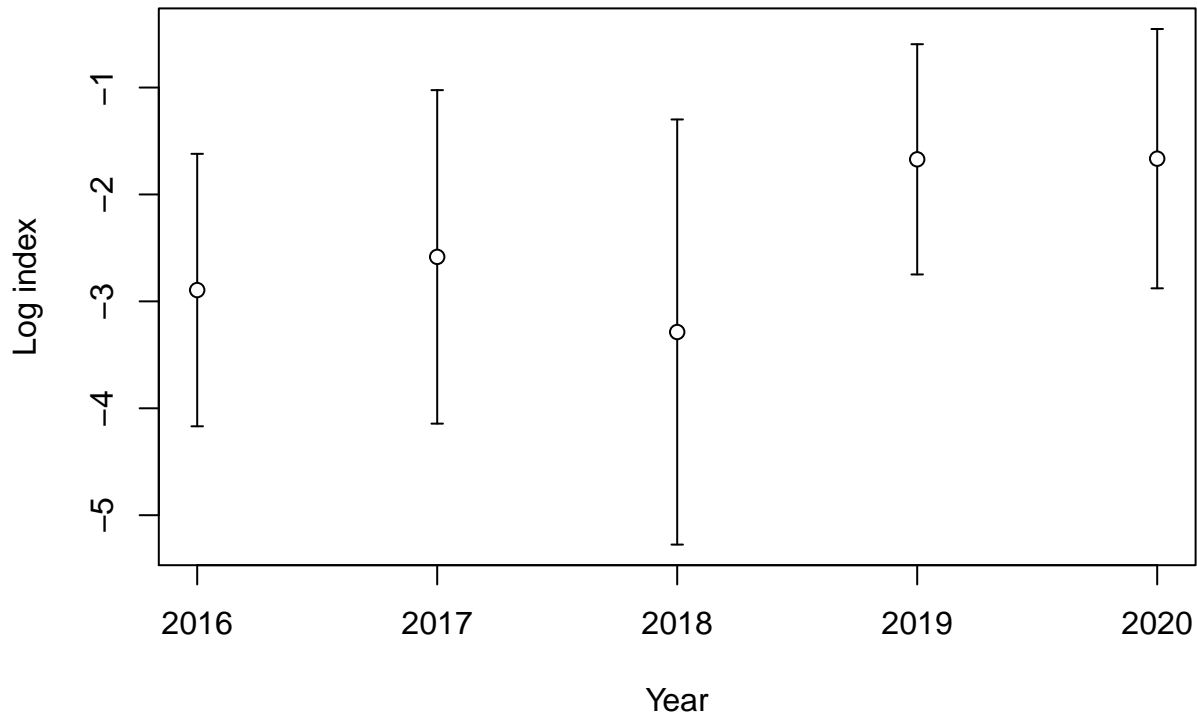
Year

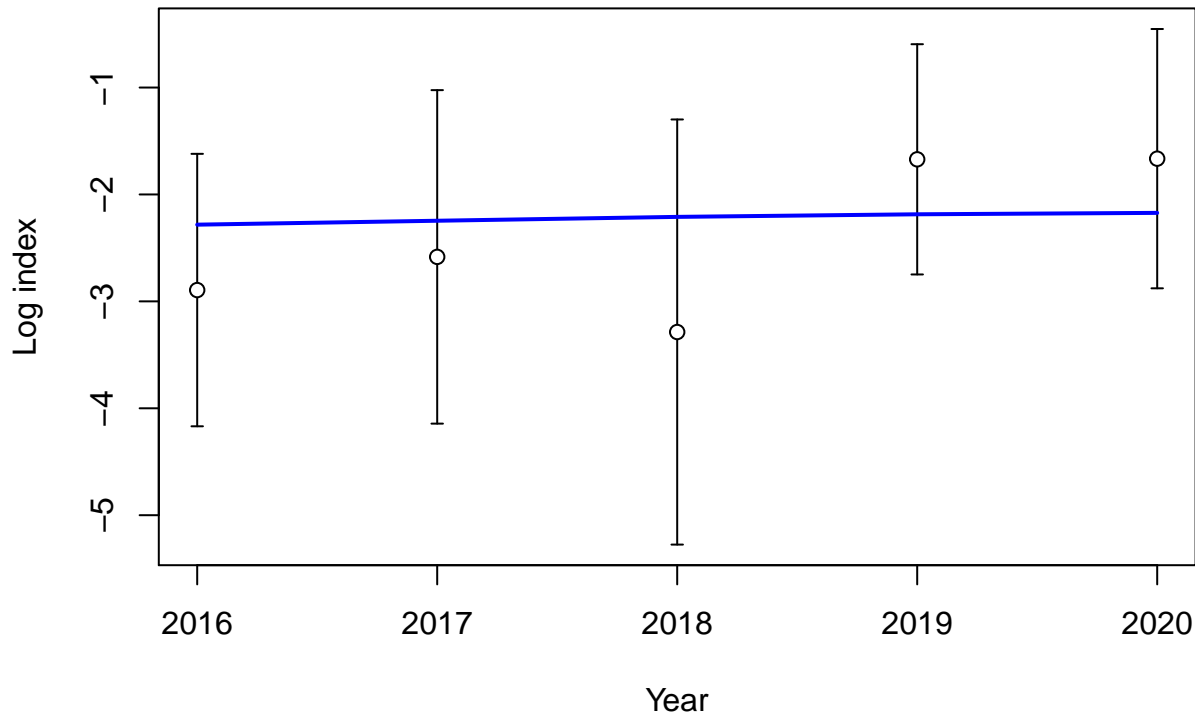
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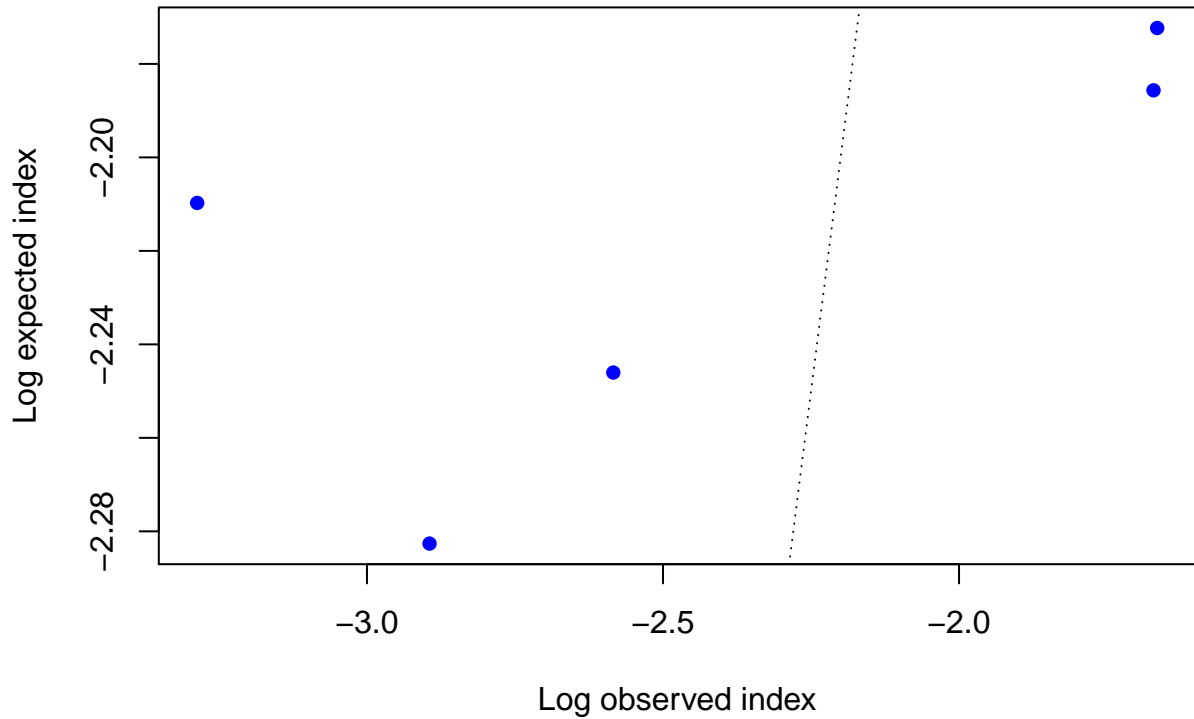


Year

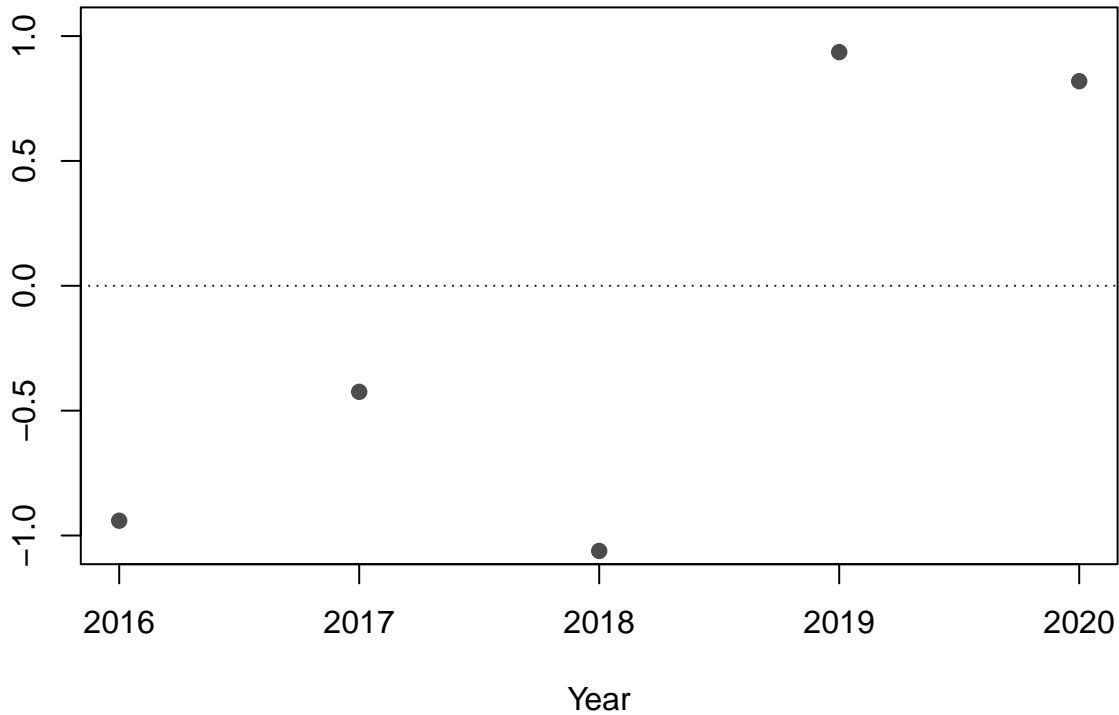




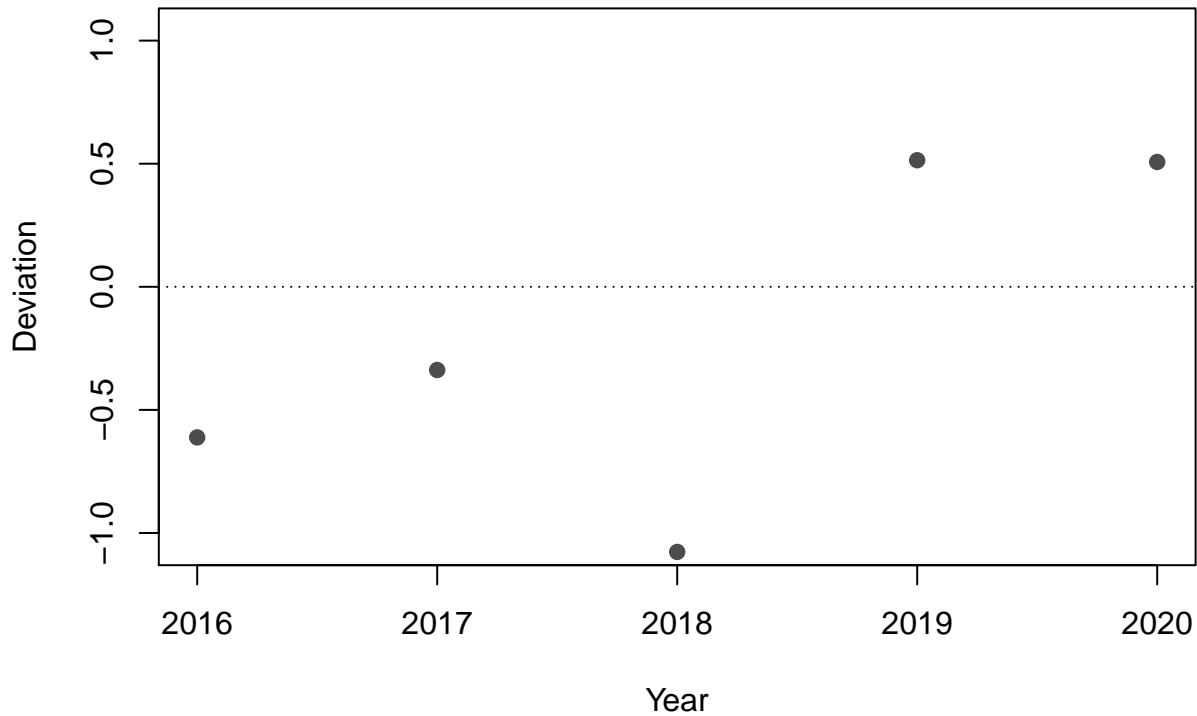


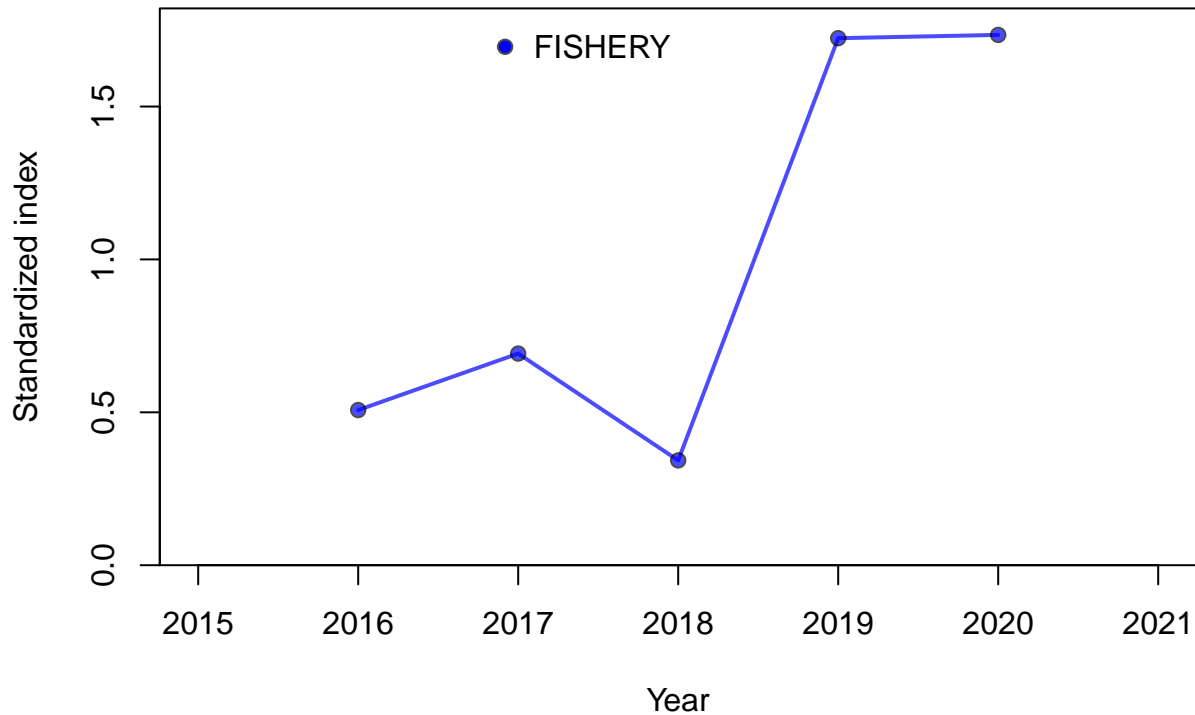


Residual

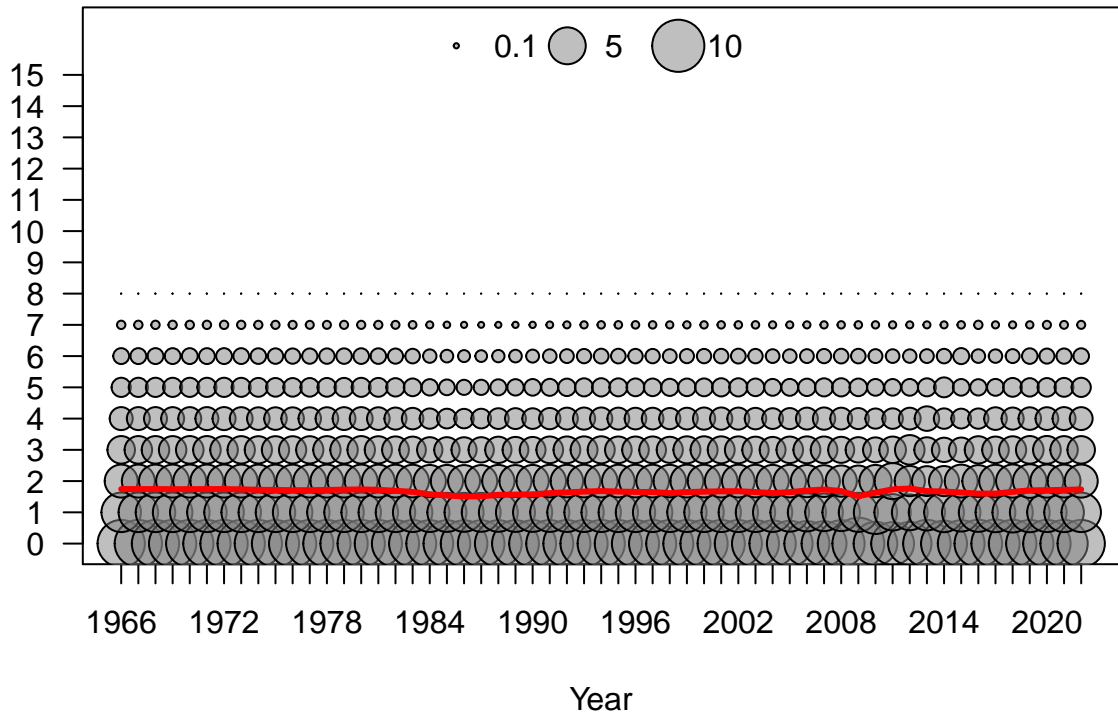


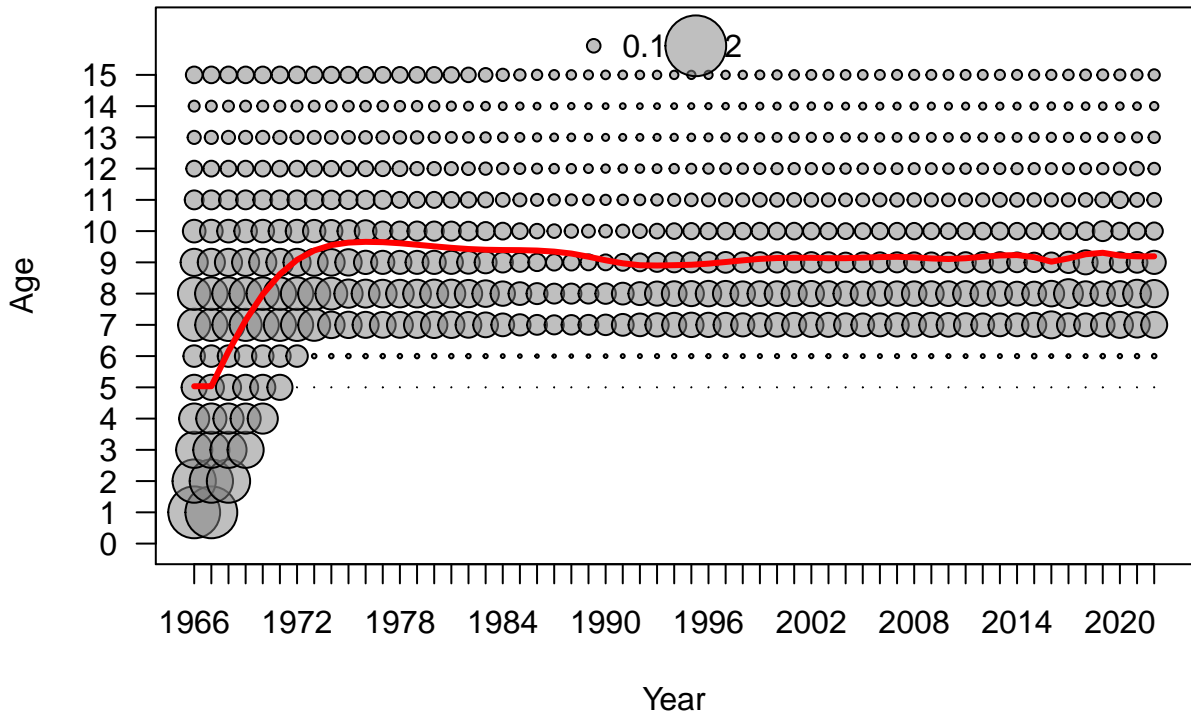


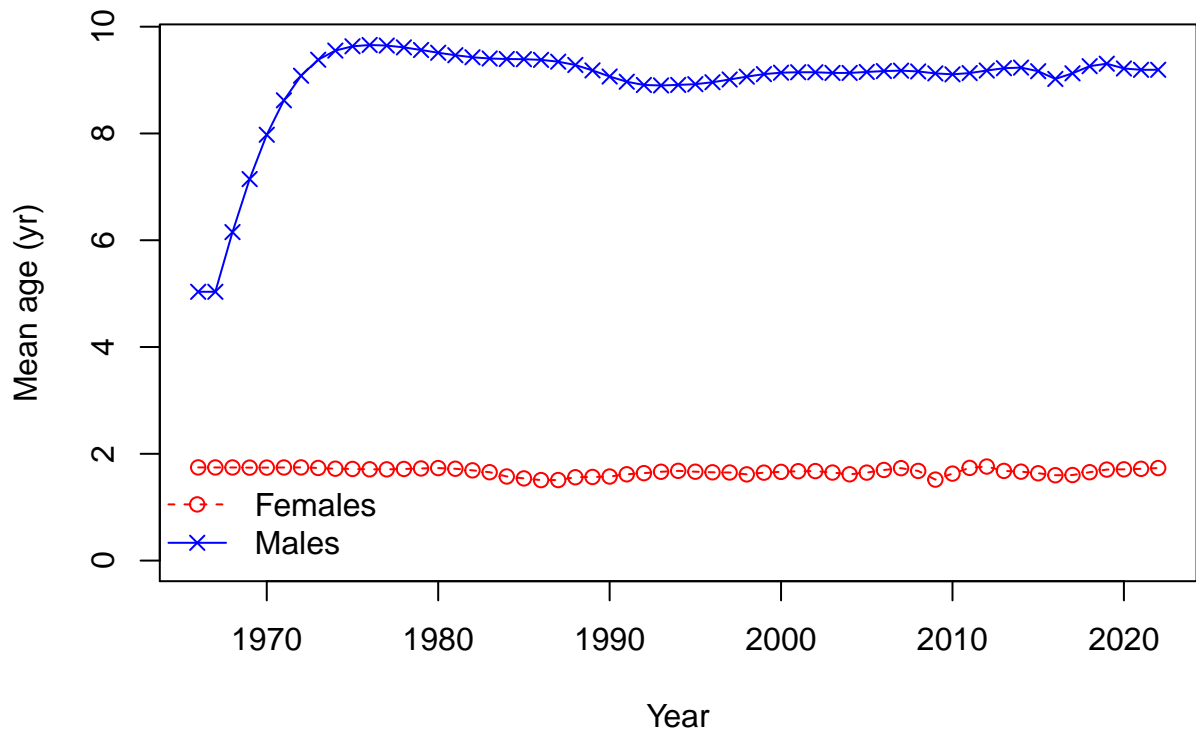


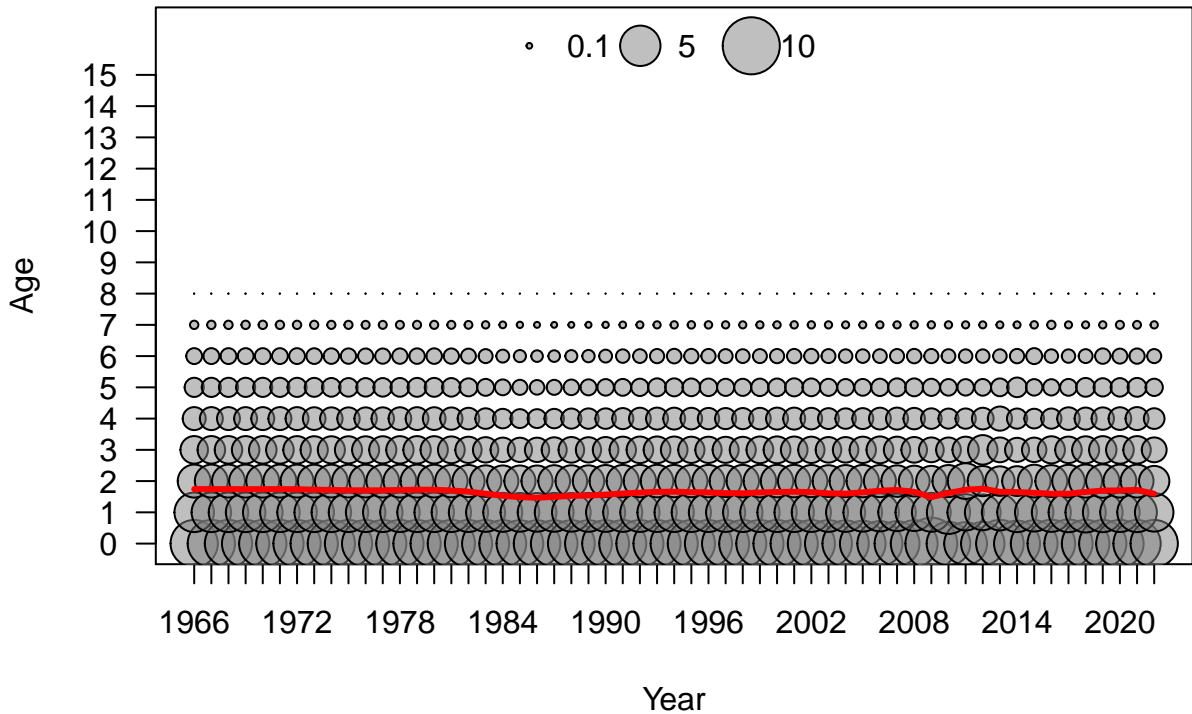


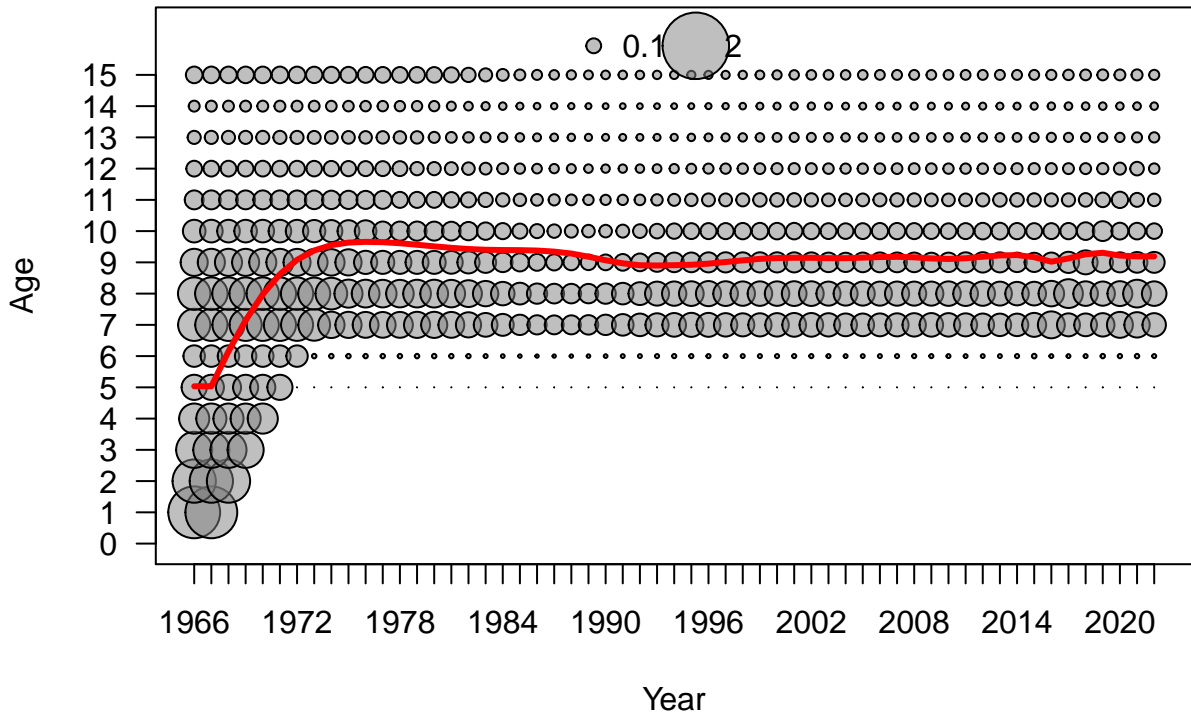
Age

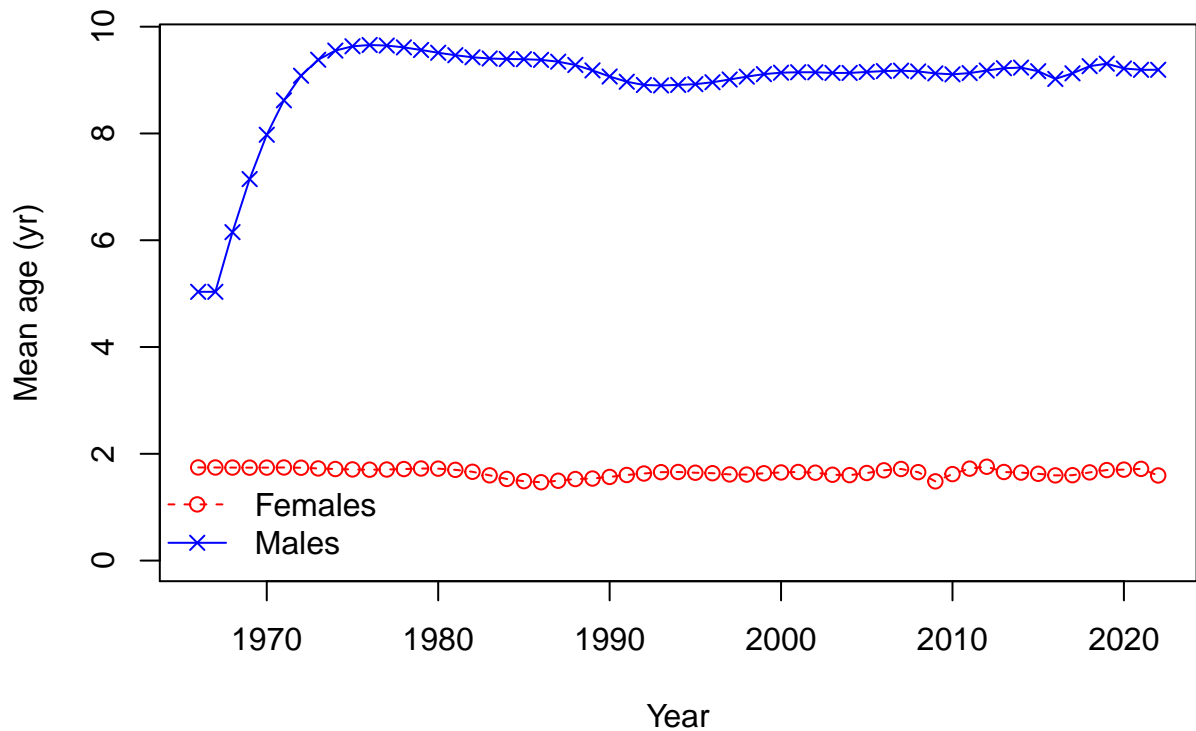














Age

0  
2  
4  
6  
8  
10  
12  
14

1970

1980

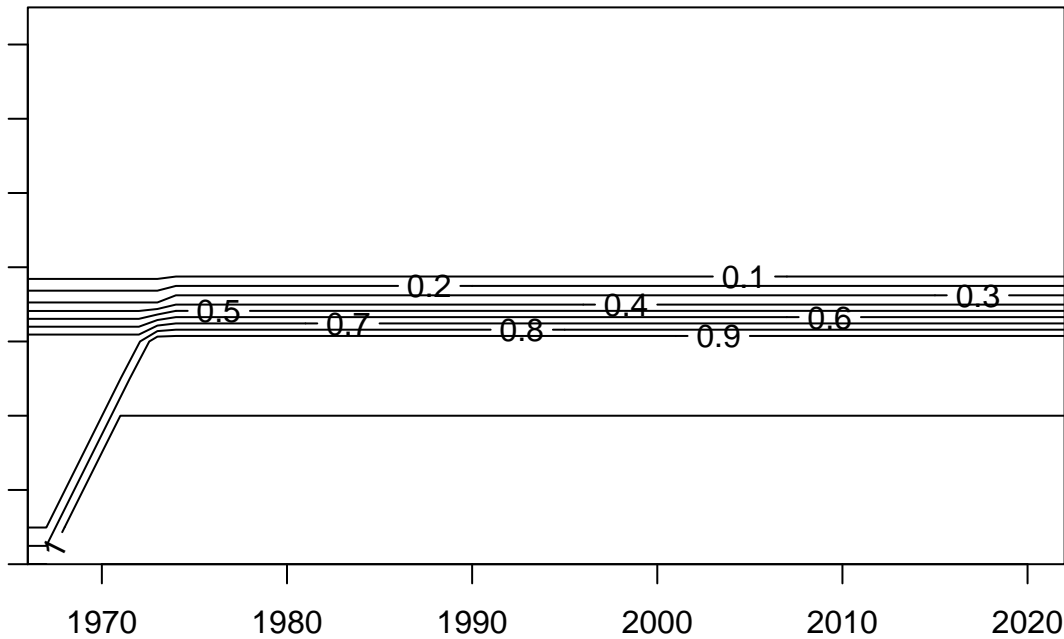
1990

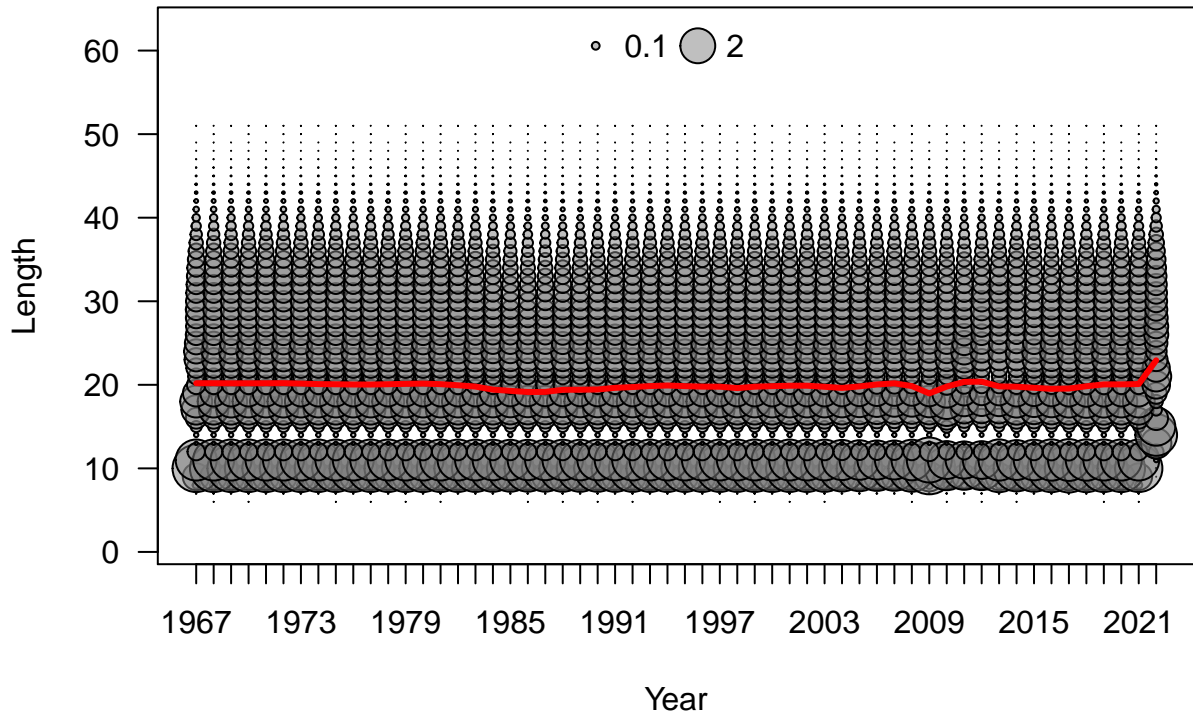
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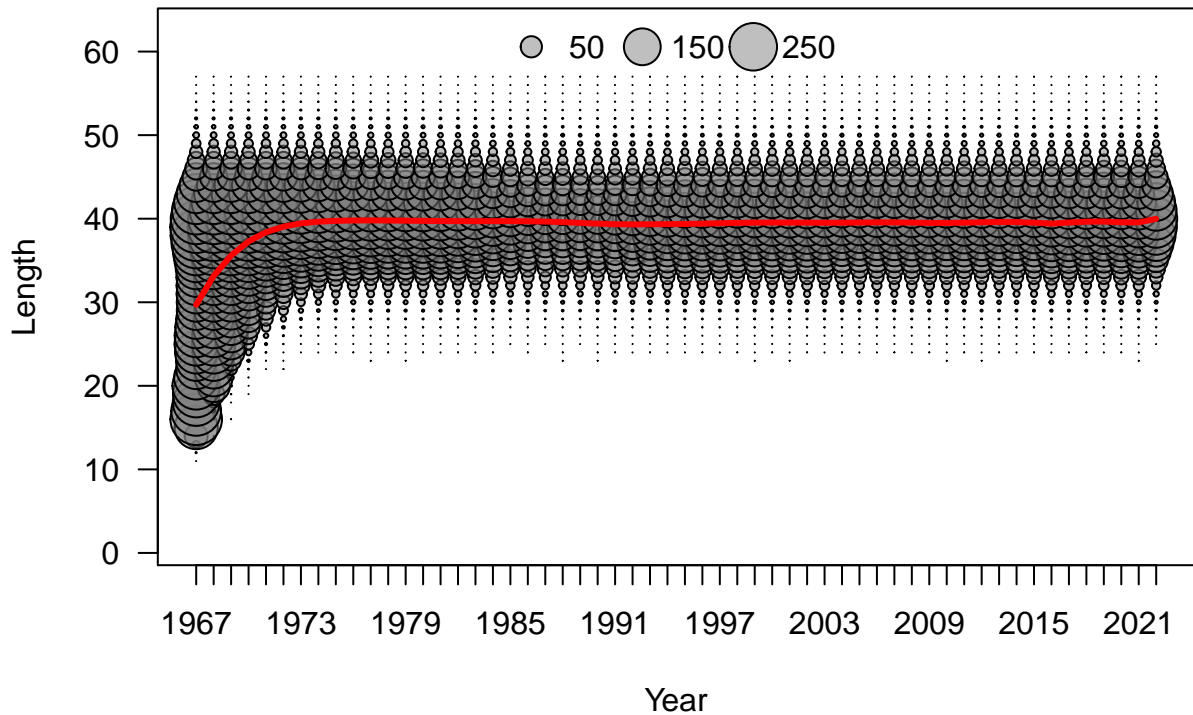
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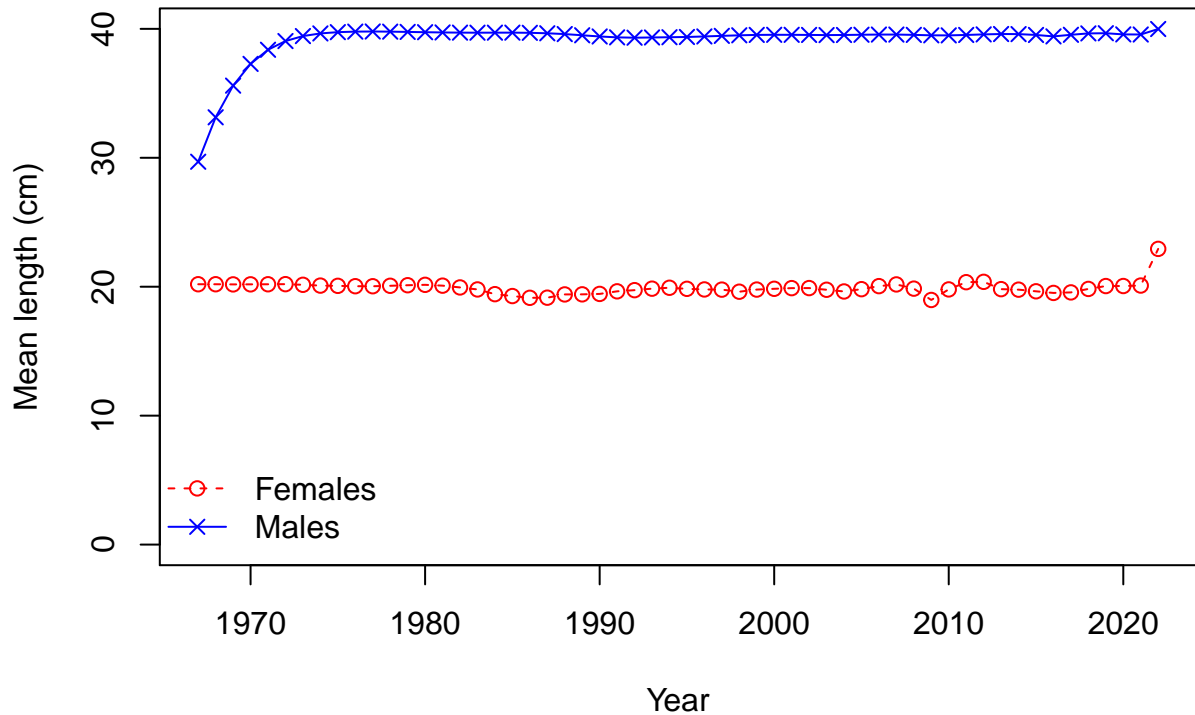
2020

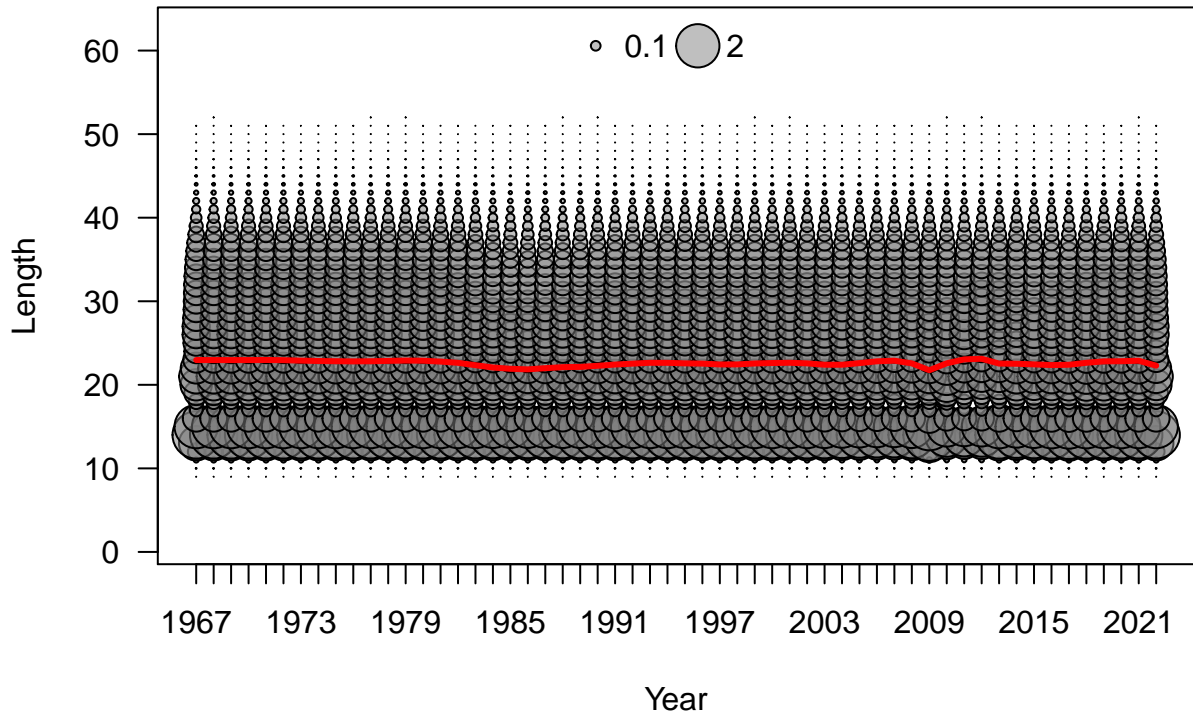
Year

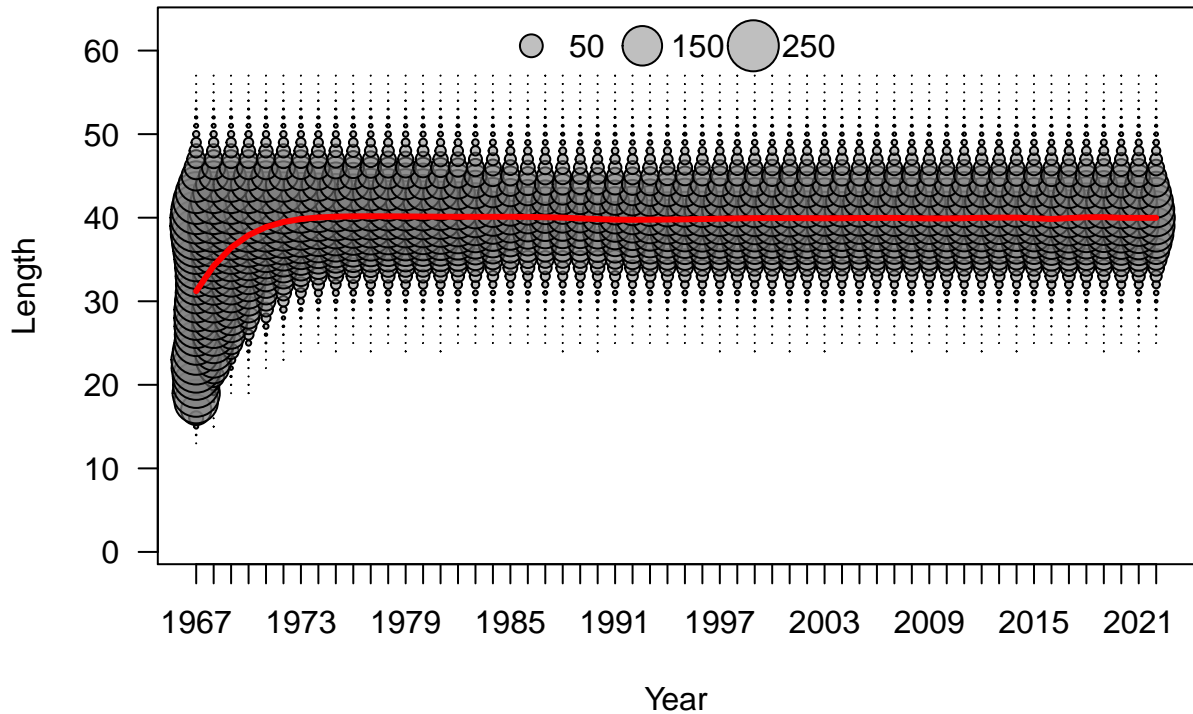


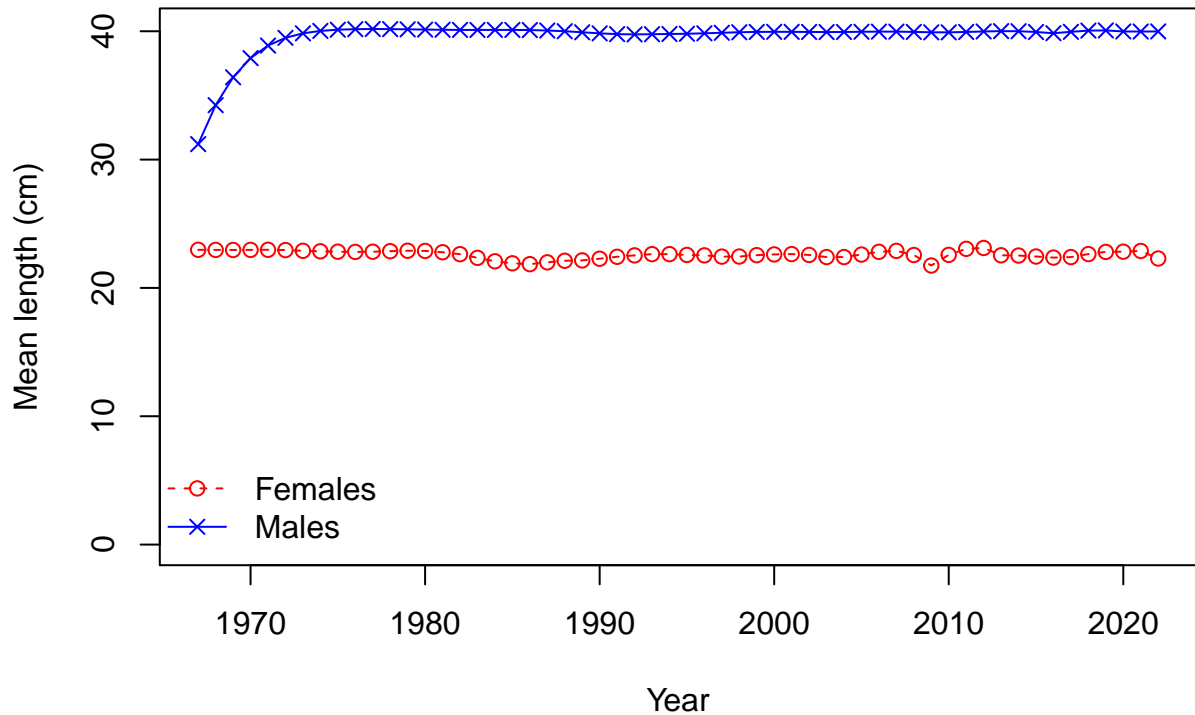


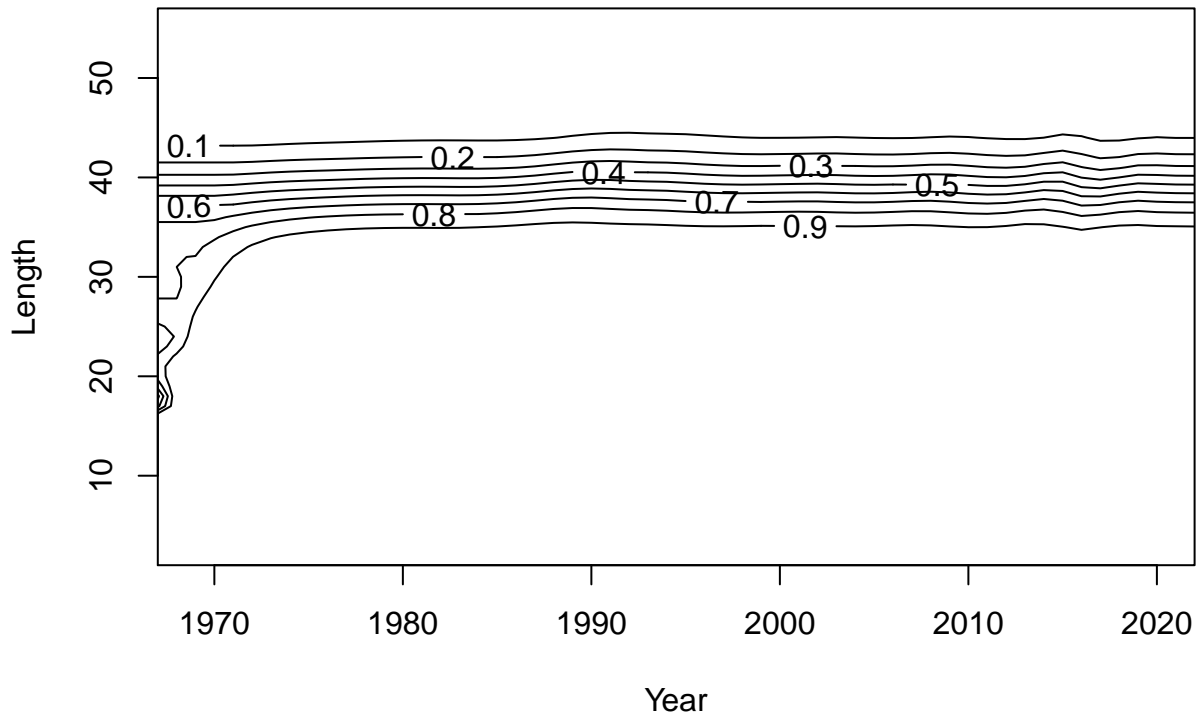




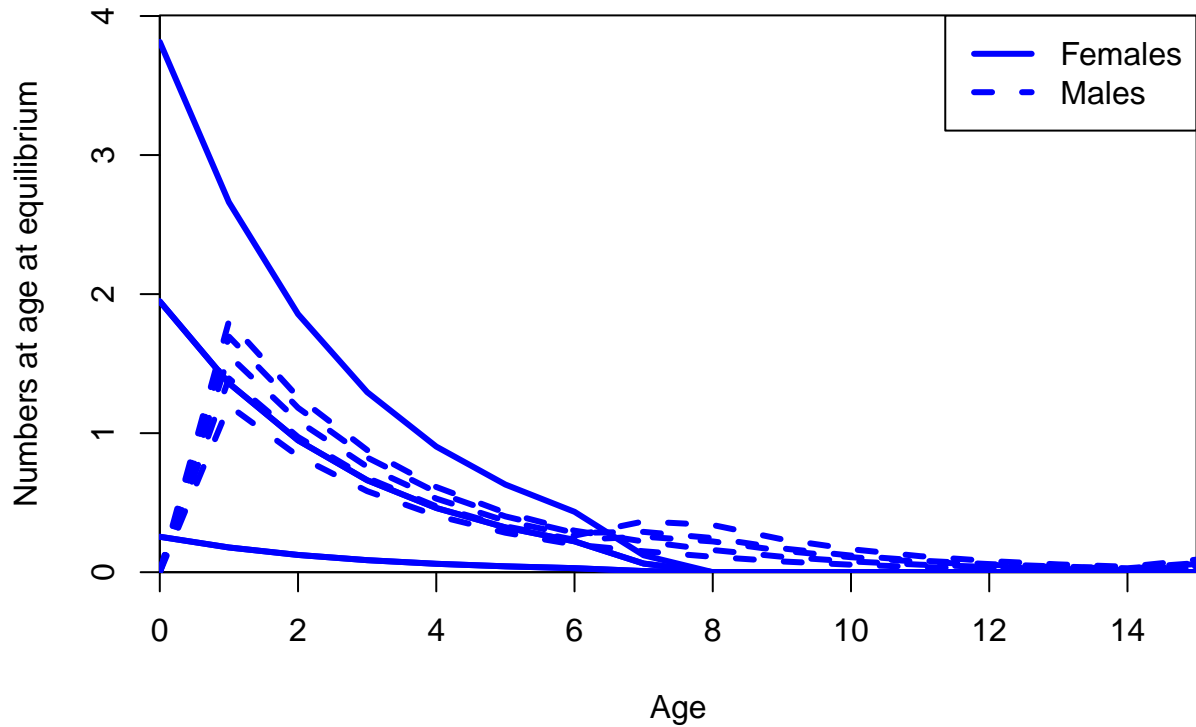


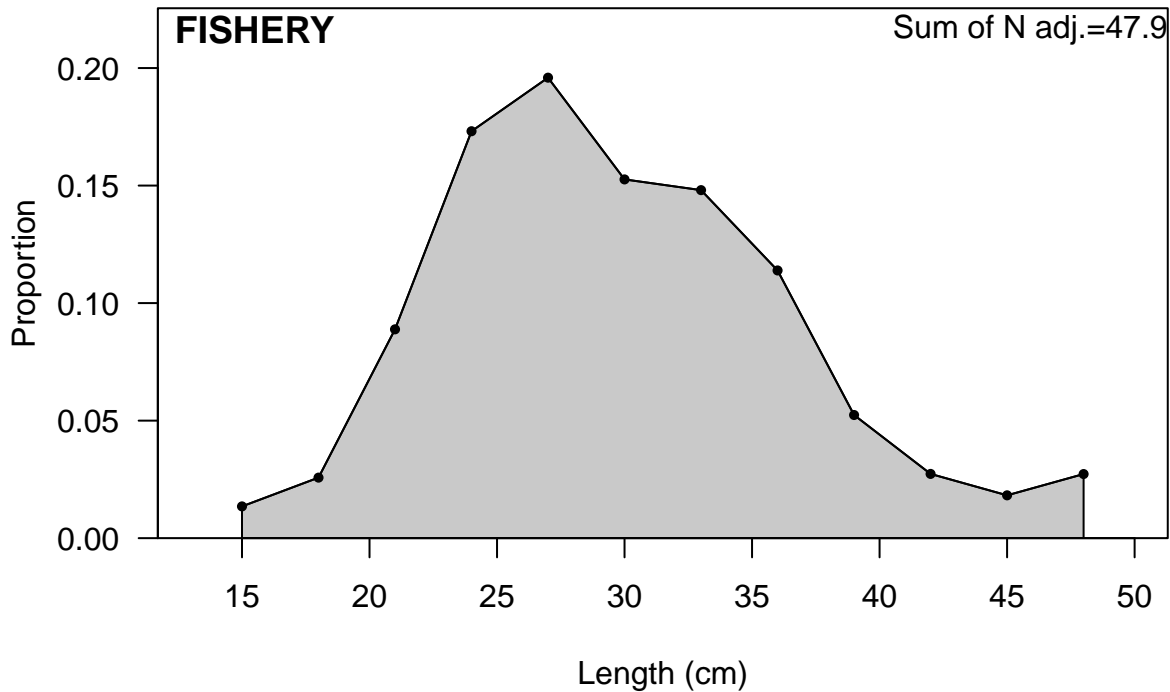


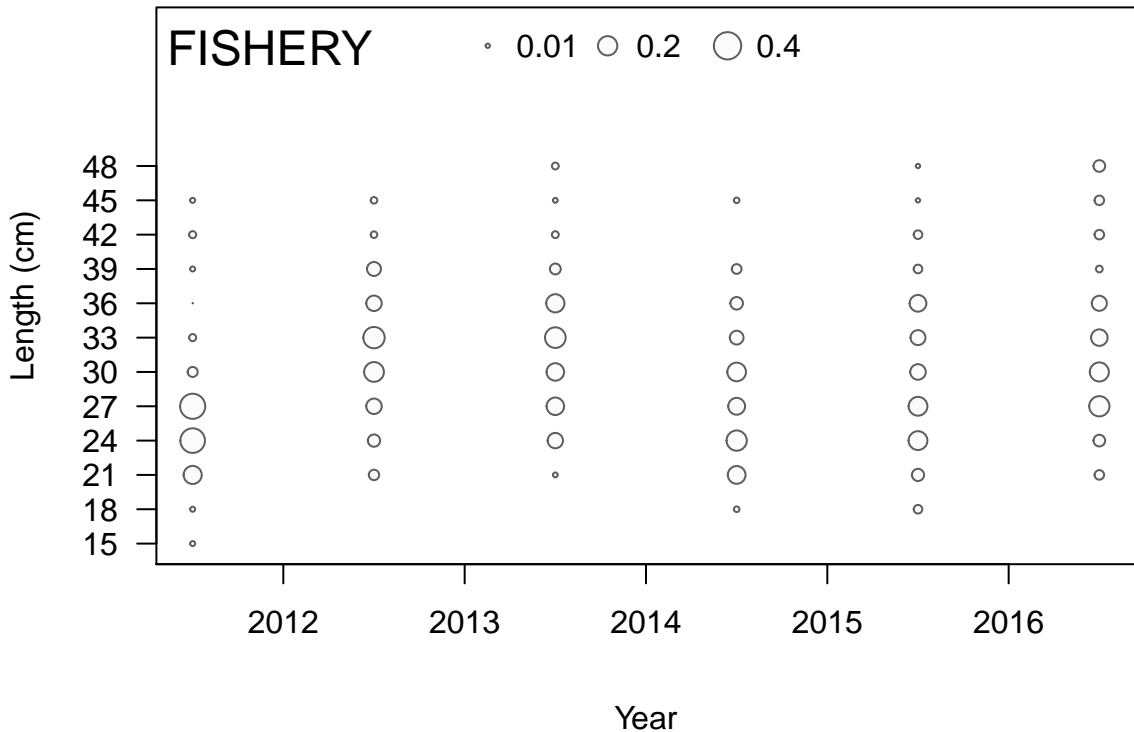




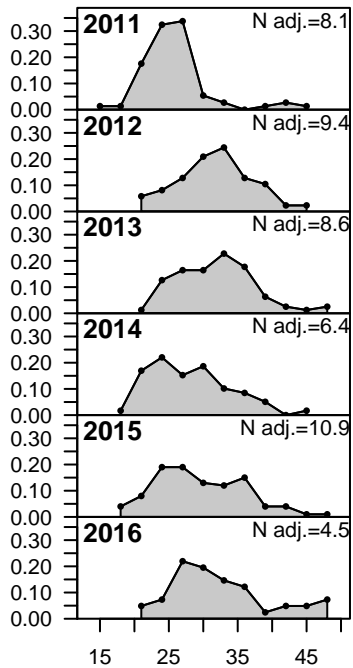




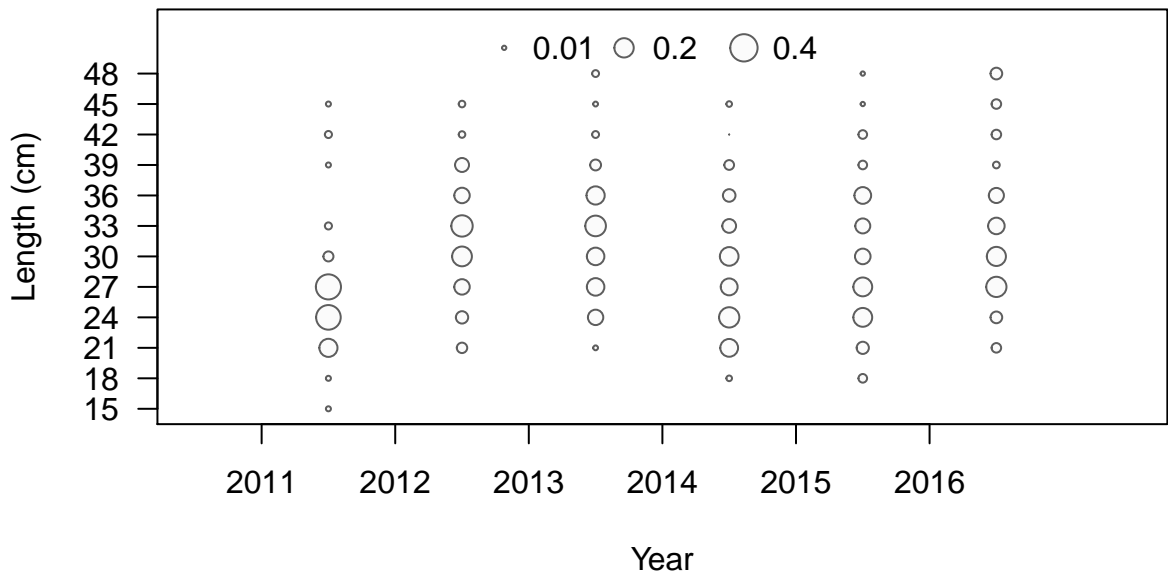




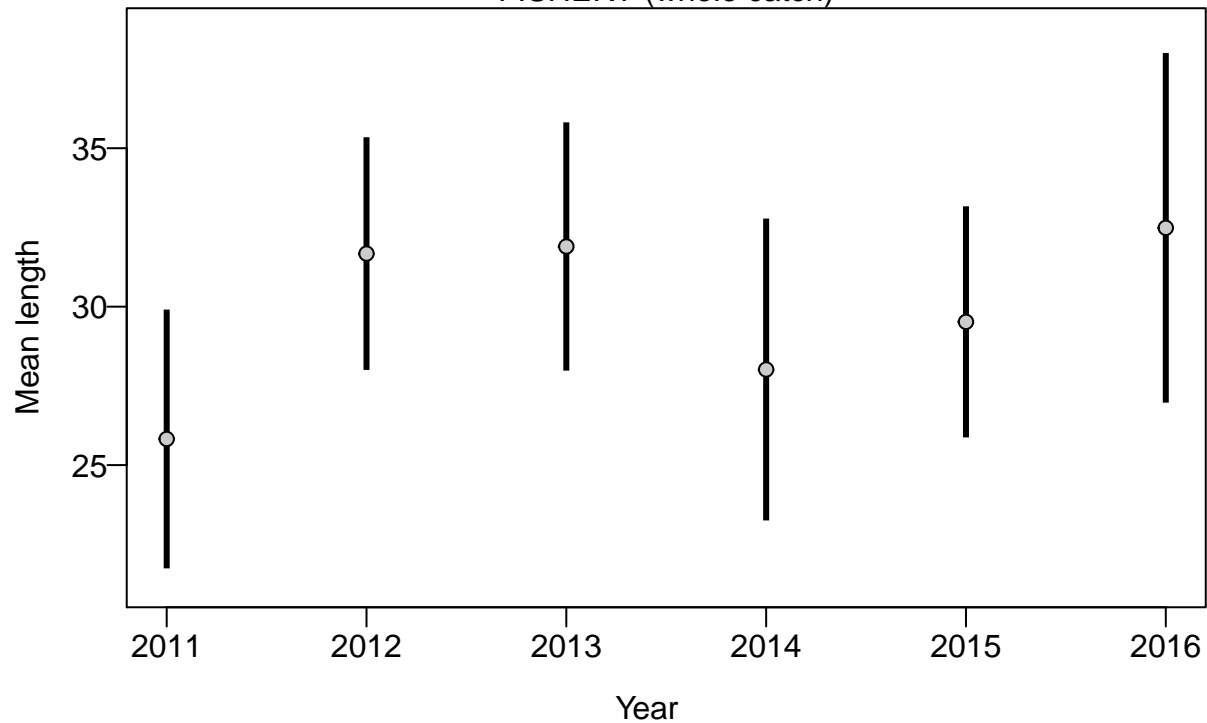
Proportion

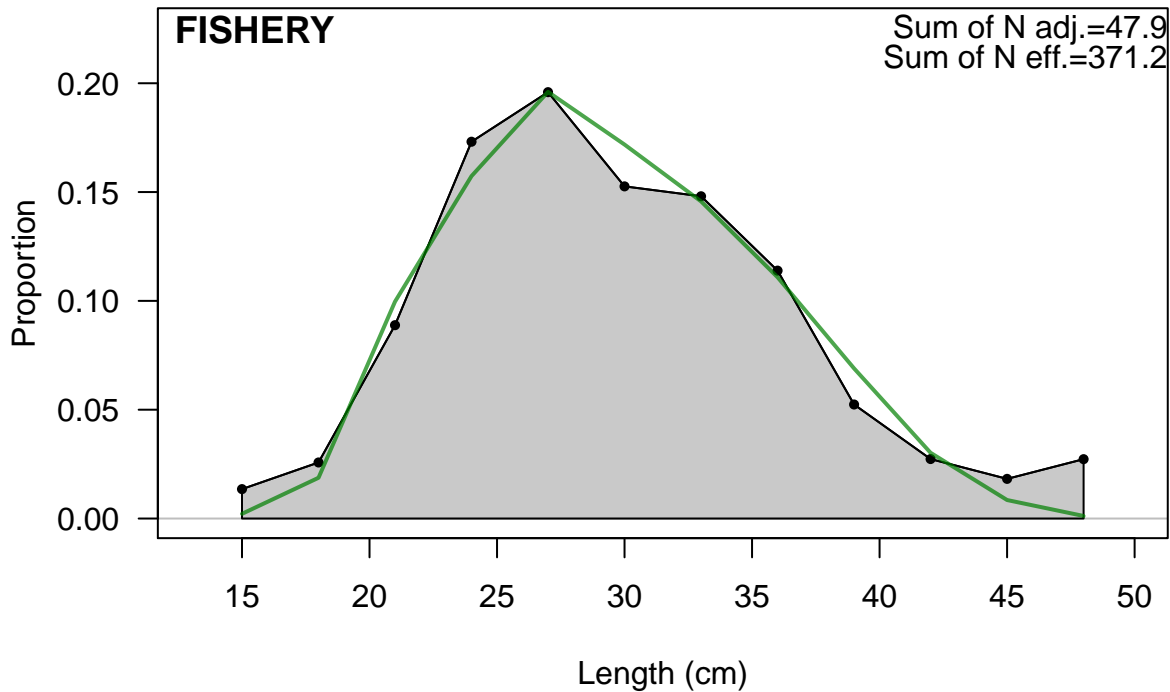


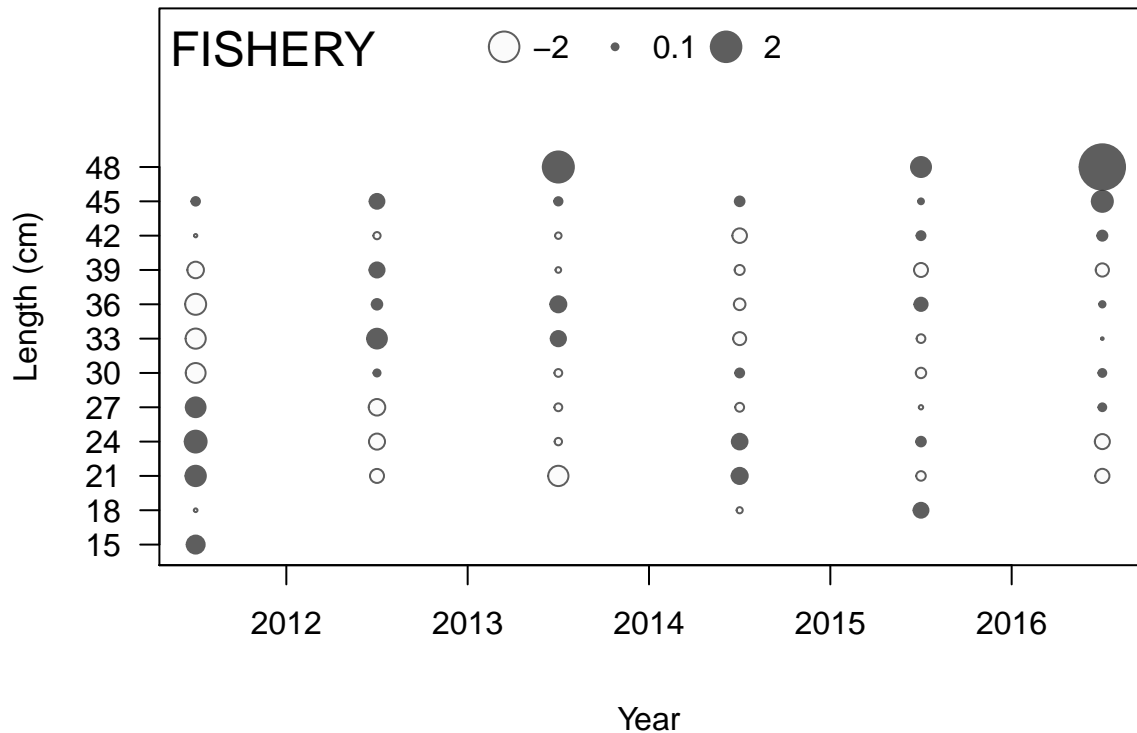
Length (cm)



FISHERY (whole catch)

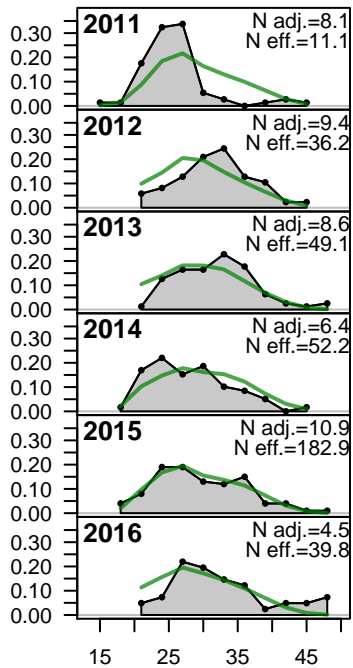






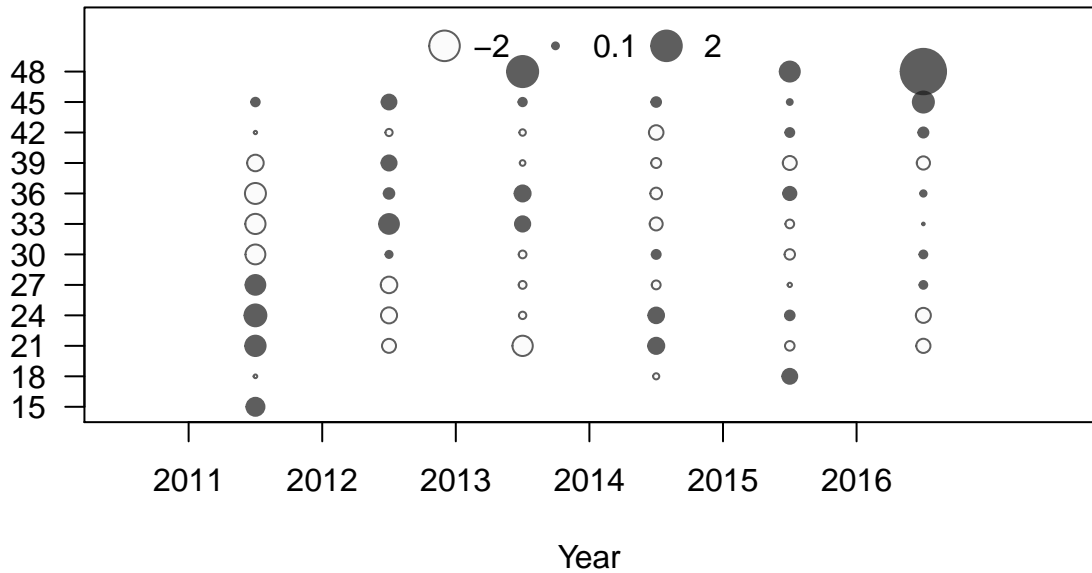


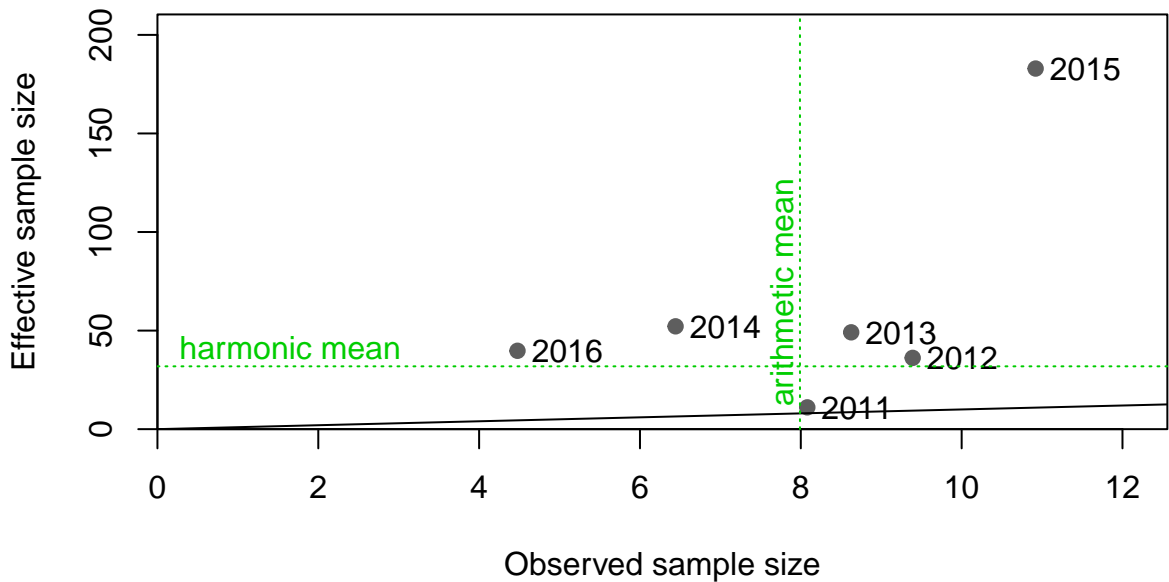
Proportion



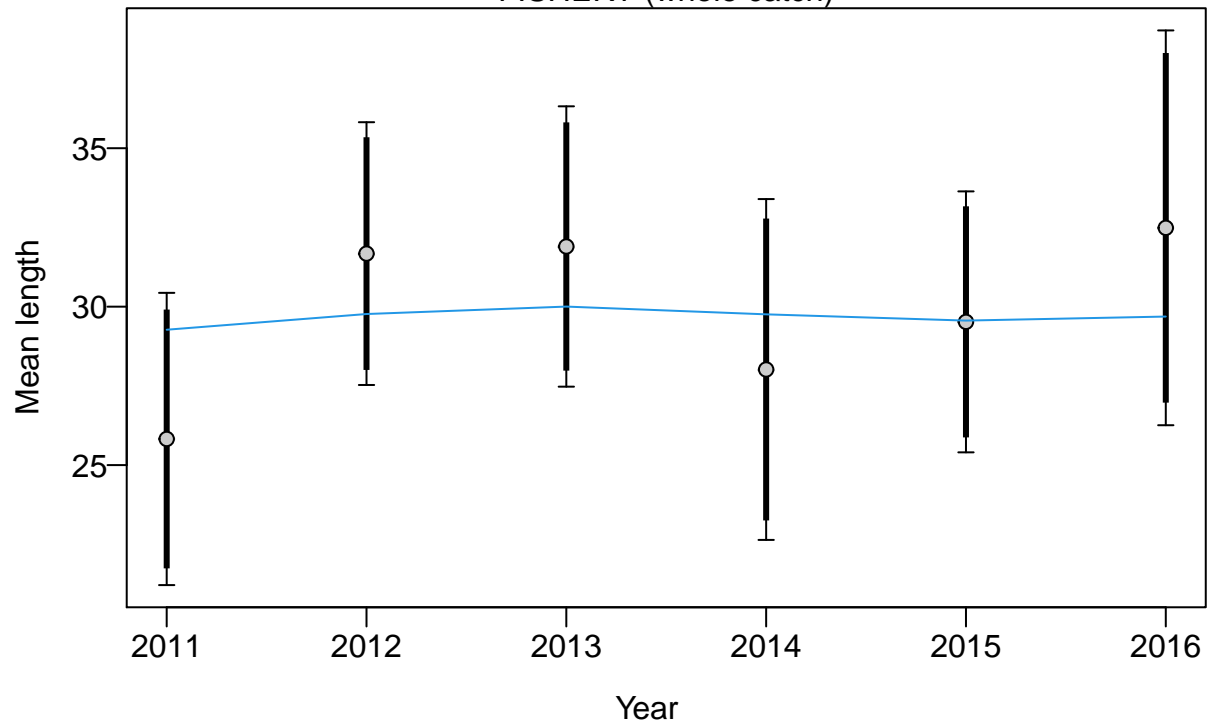
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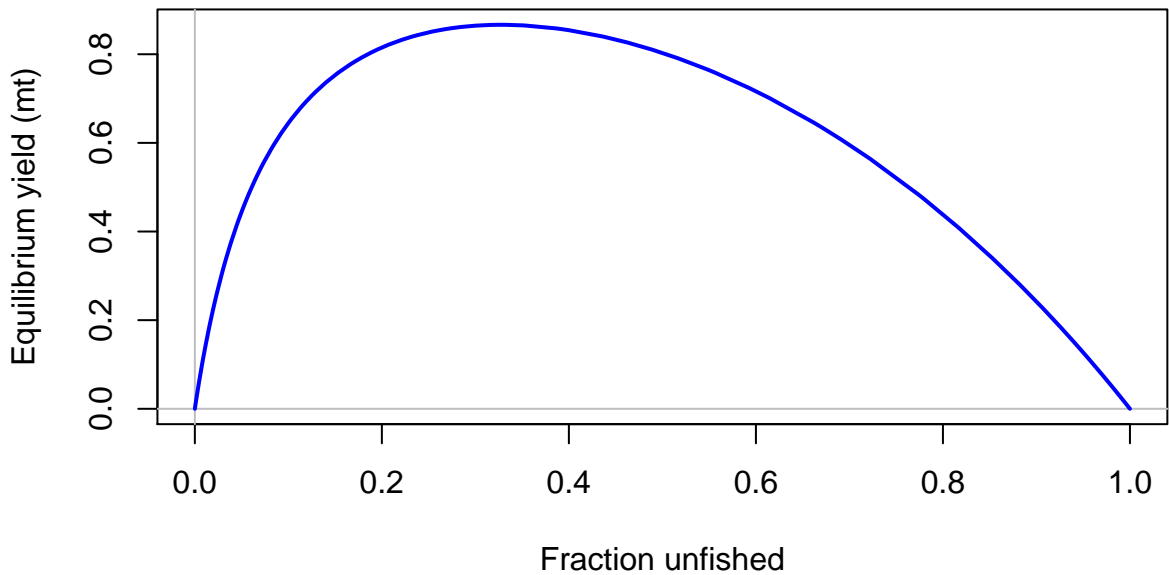
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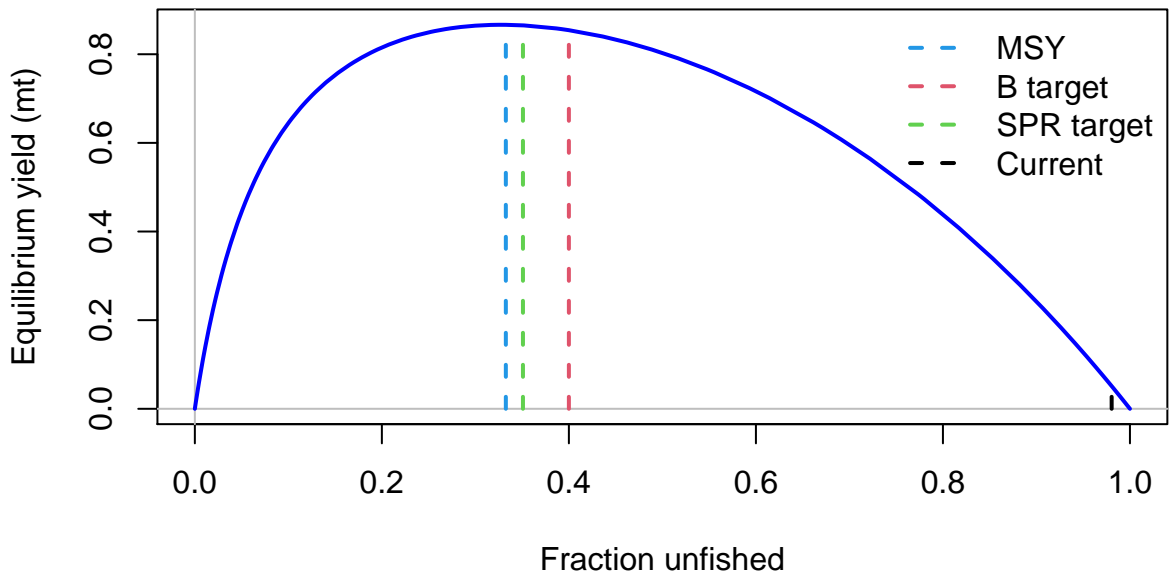


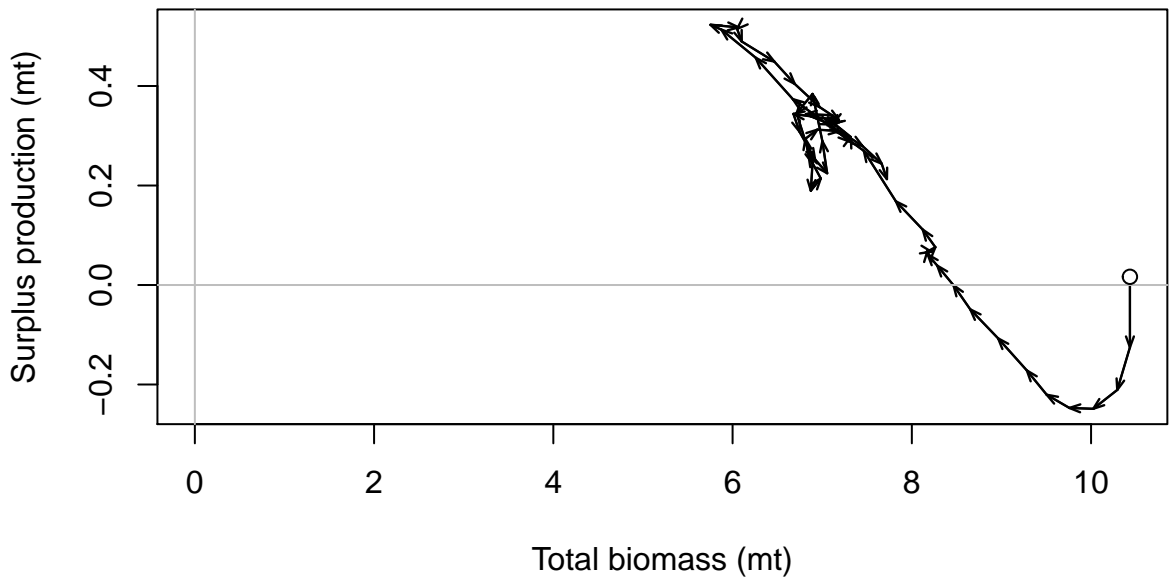


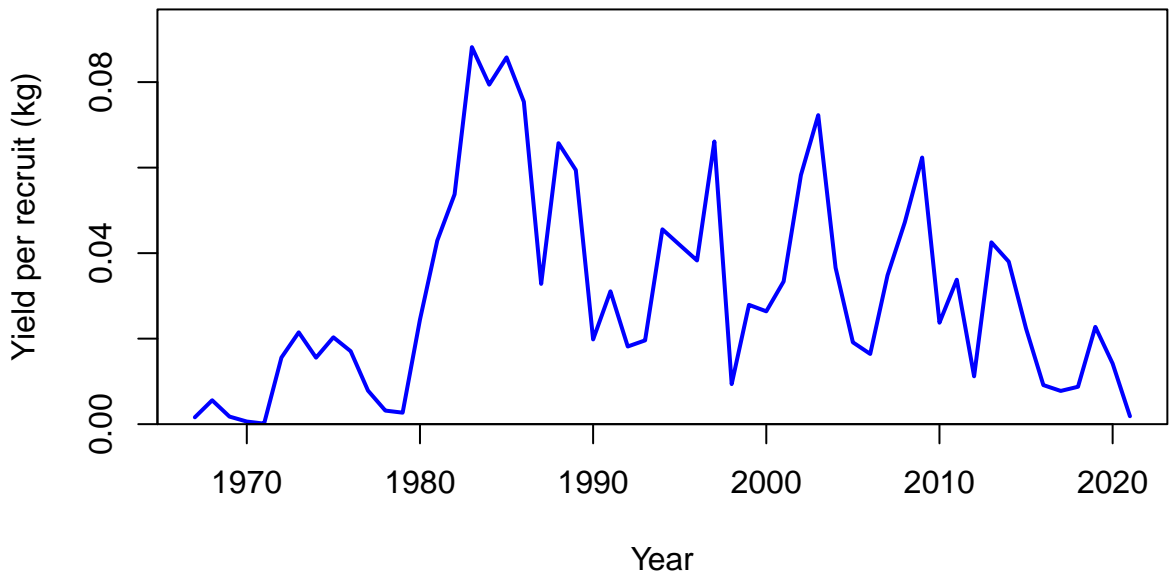
FISHERY (whole catch)



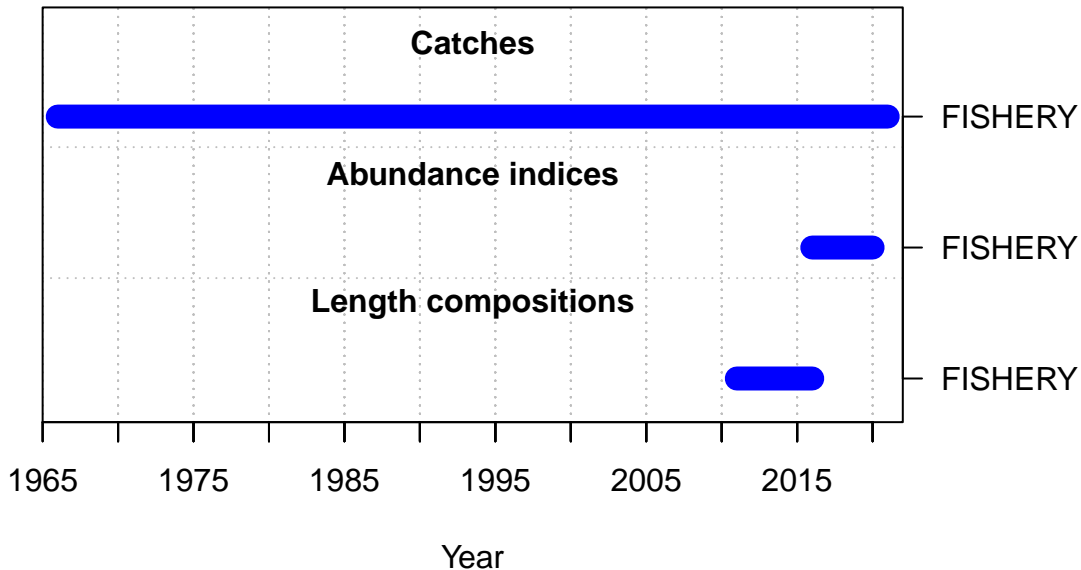


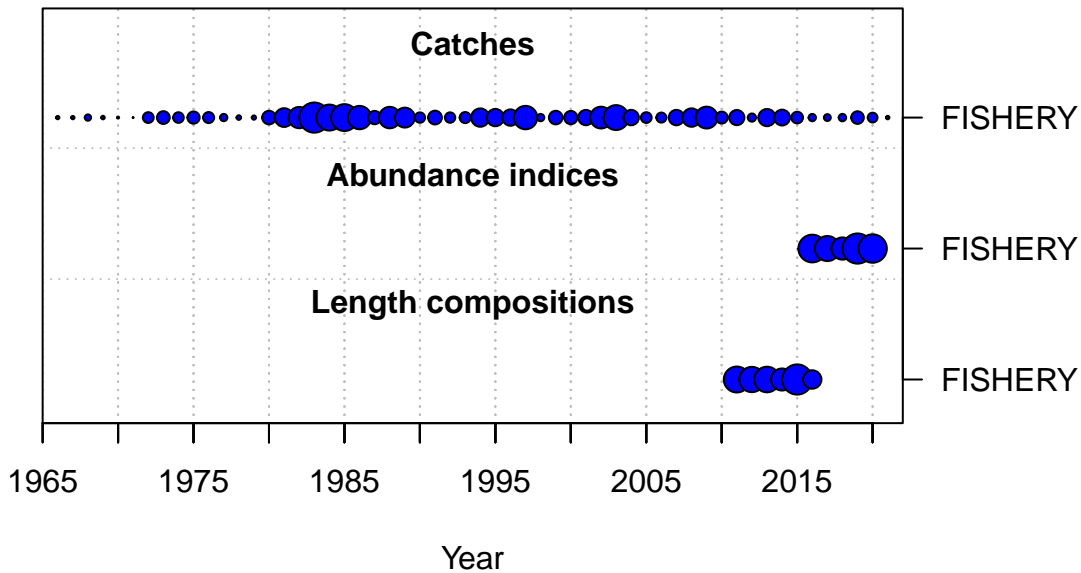




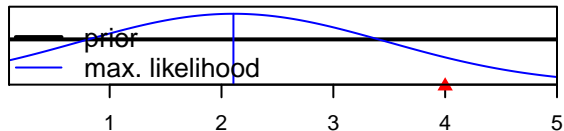




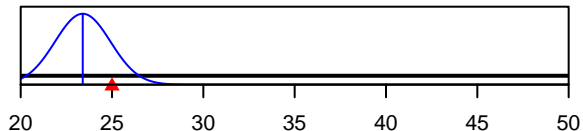




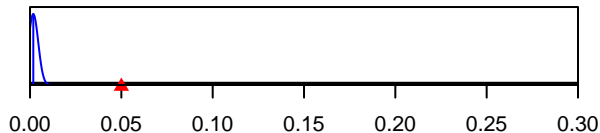
SR\_LN(R0)



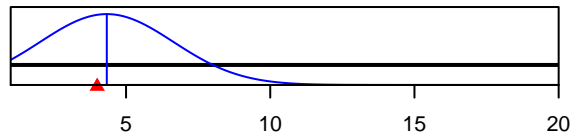
Size\_inflection\_FISHERY(1)



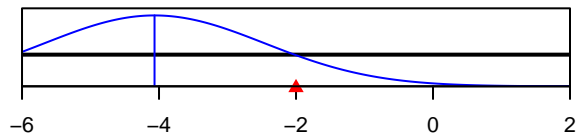
InitF\_seas\_1\_flt\_1FISHERY



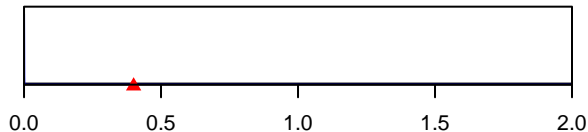
Size\_95%width\_FISHERY(1)



LnQ\_base\_FISHERY(1)



Q\_extraSD\_FISHERY(1)



Parameter value