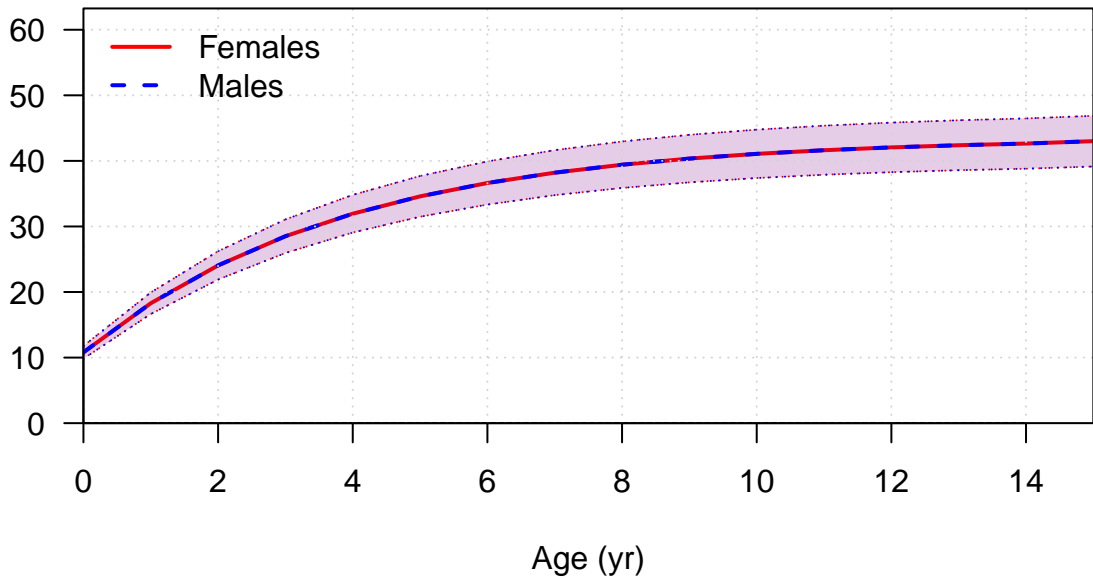
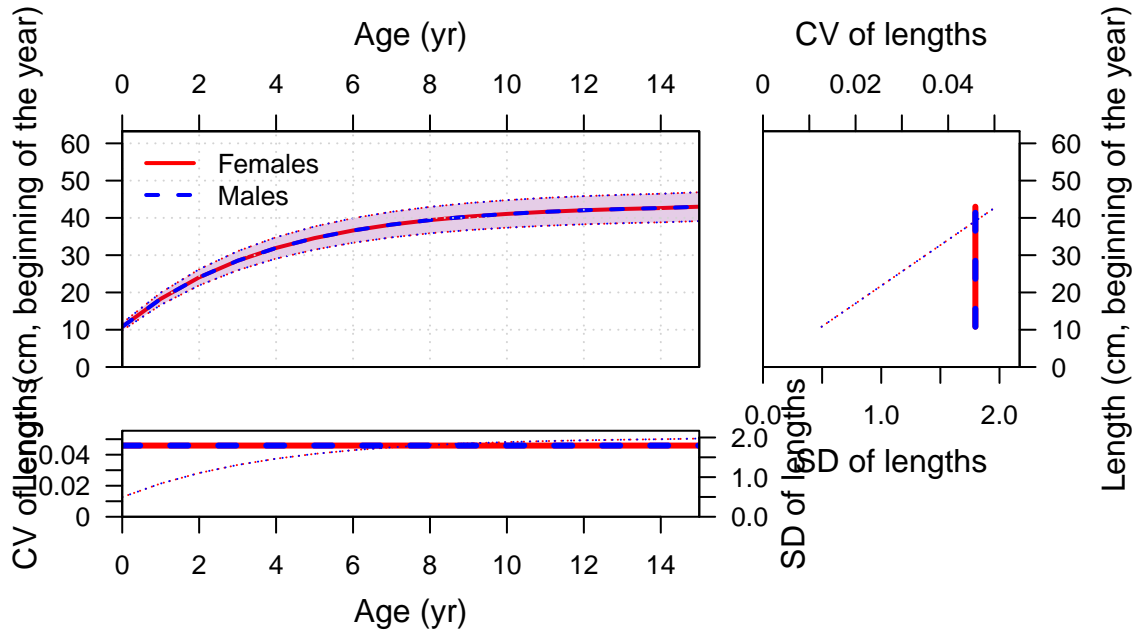
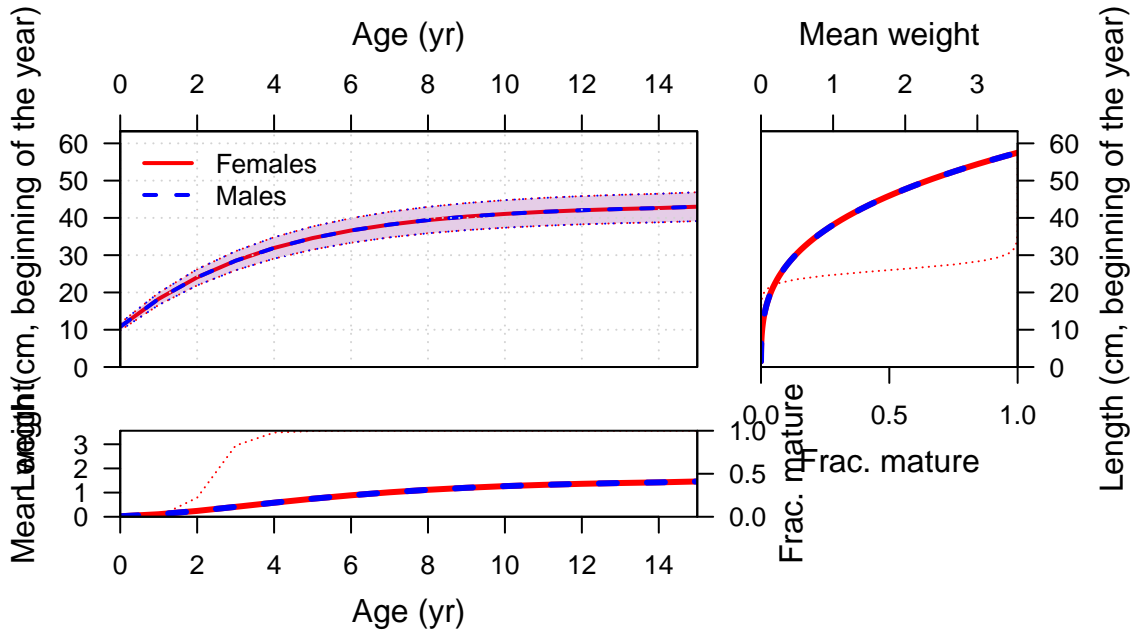


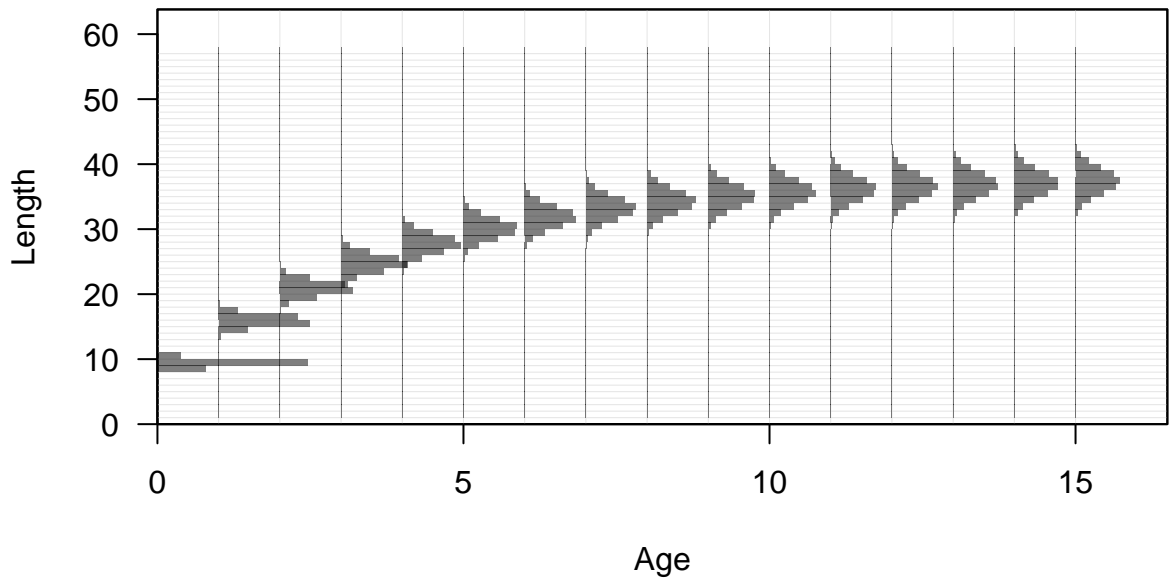
Plots created using the 'r4ss' package in R  
Stock Synthesis version: 3.30.19.0  
StartTime: Mon Aug 08 15:43:02 2022  
Data\_File: data.ss  
Control\_File: control.ss

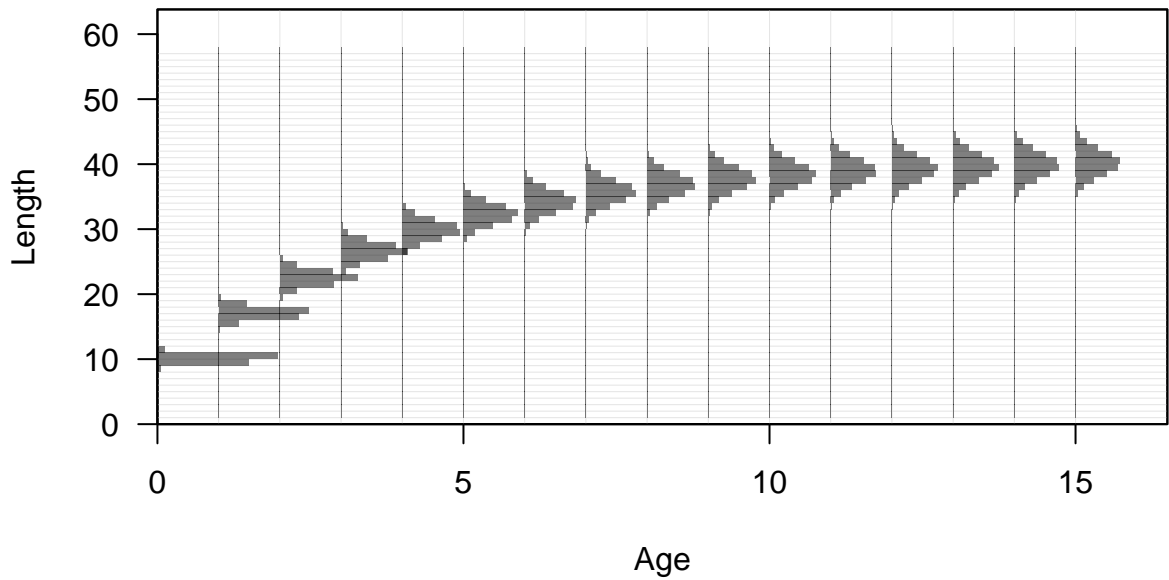
Length (cm, beginning of the year)

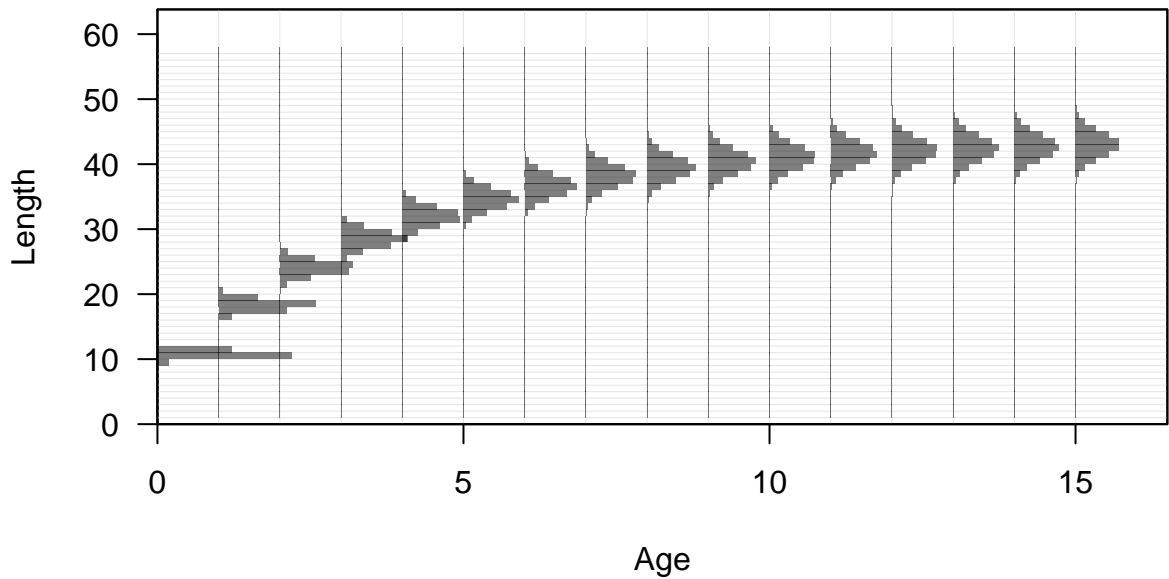


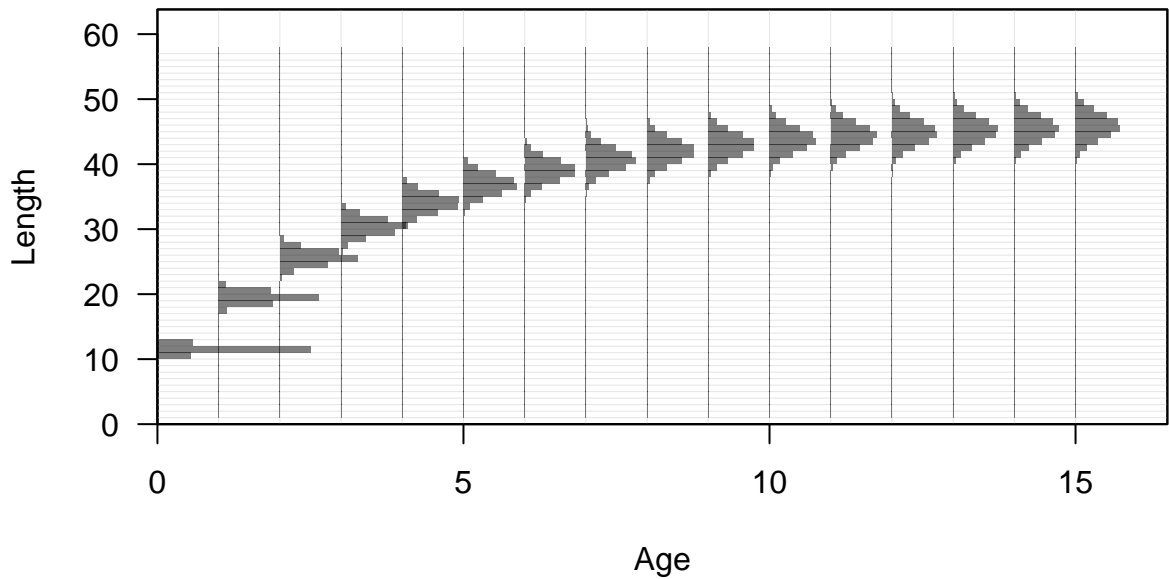




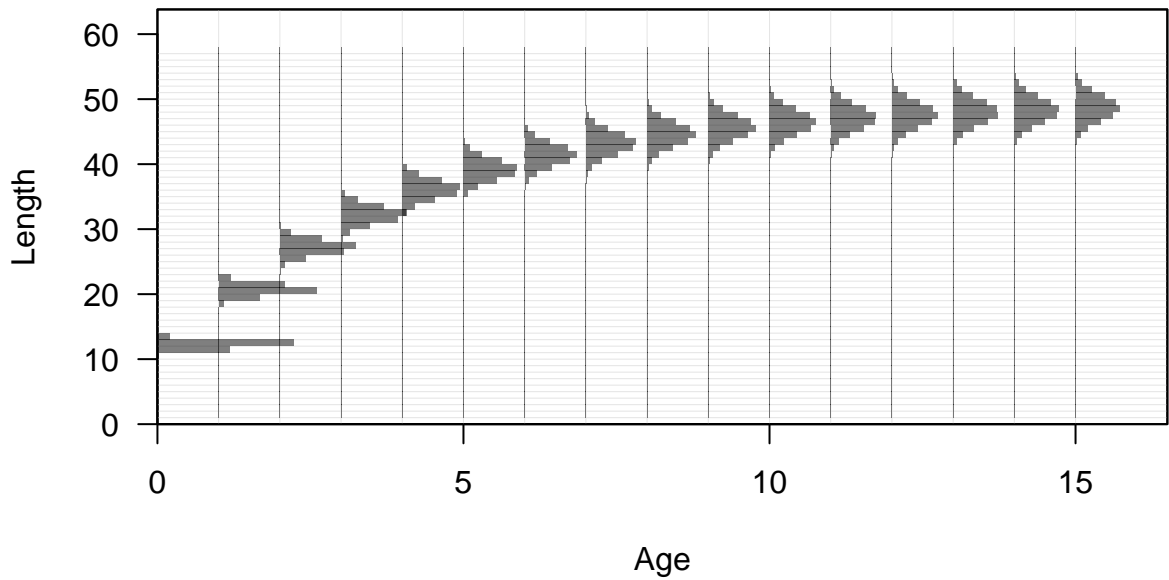


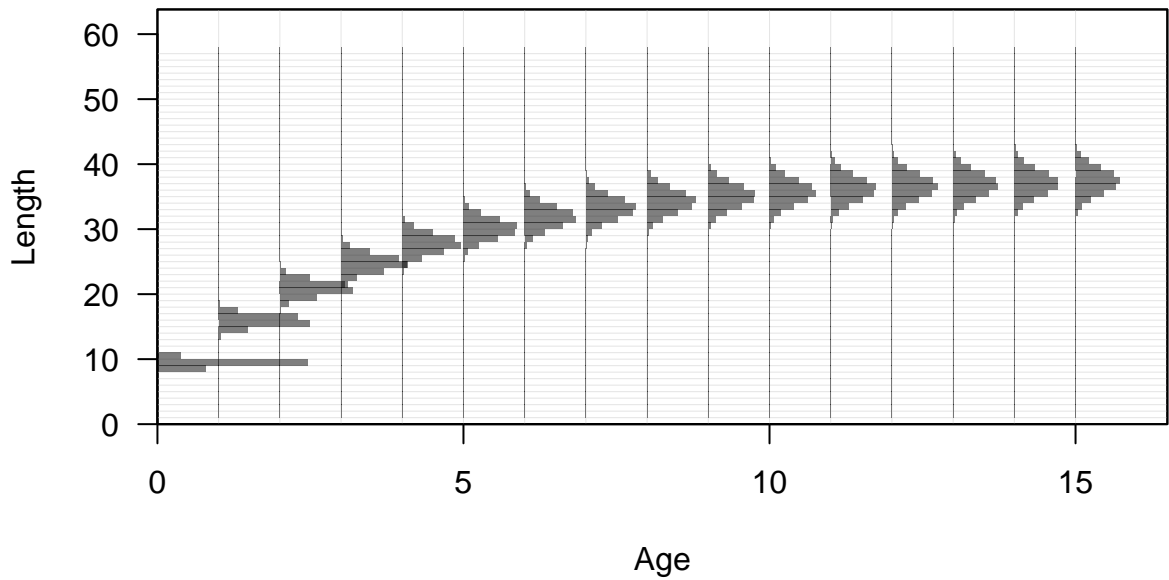


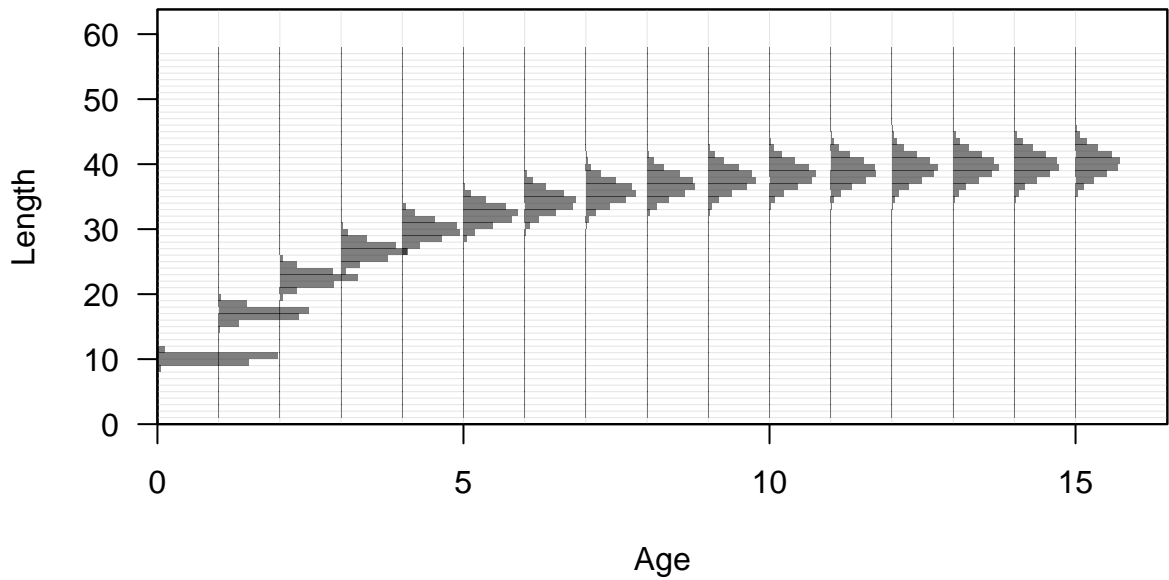


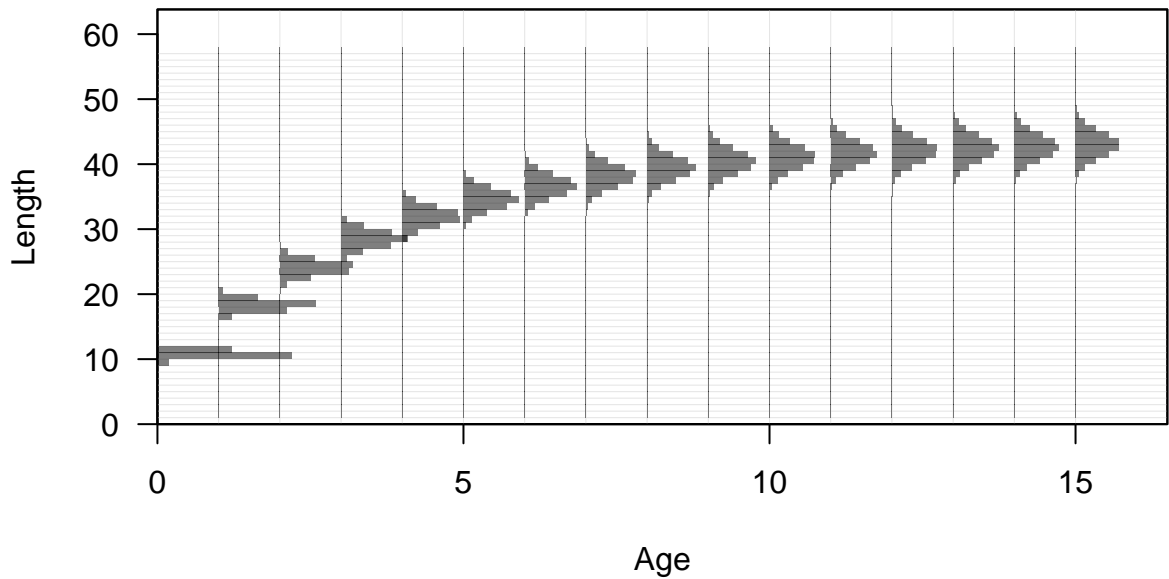


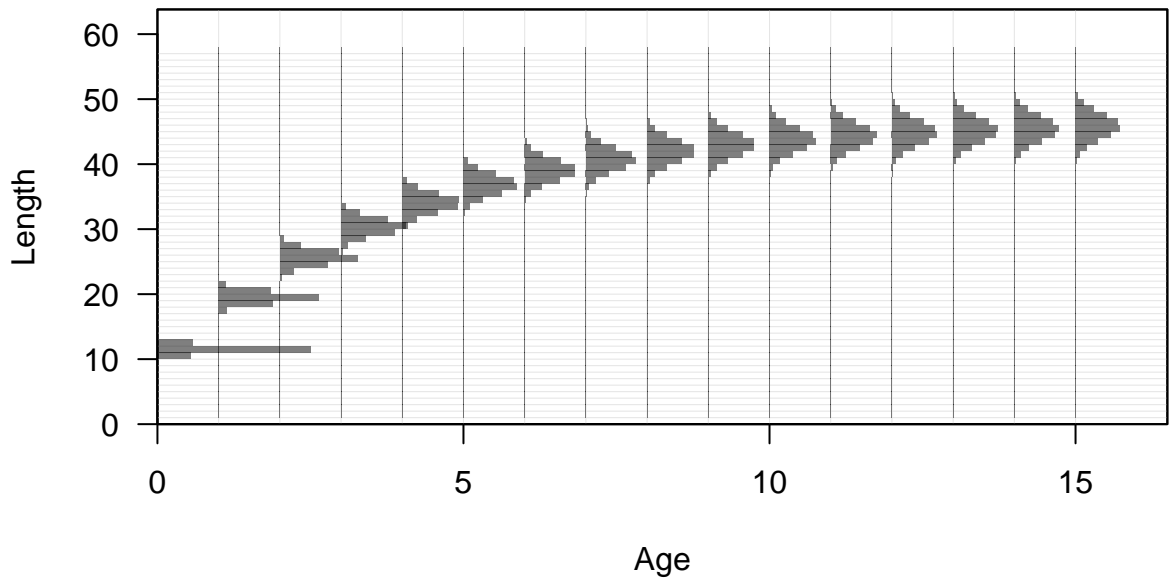


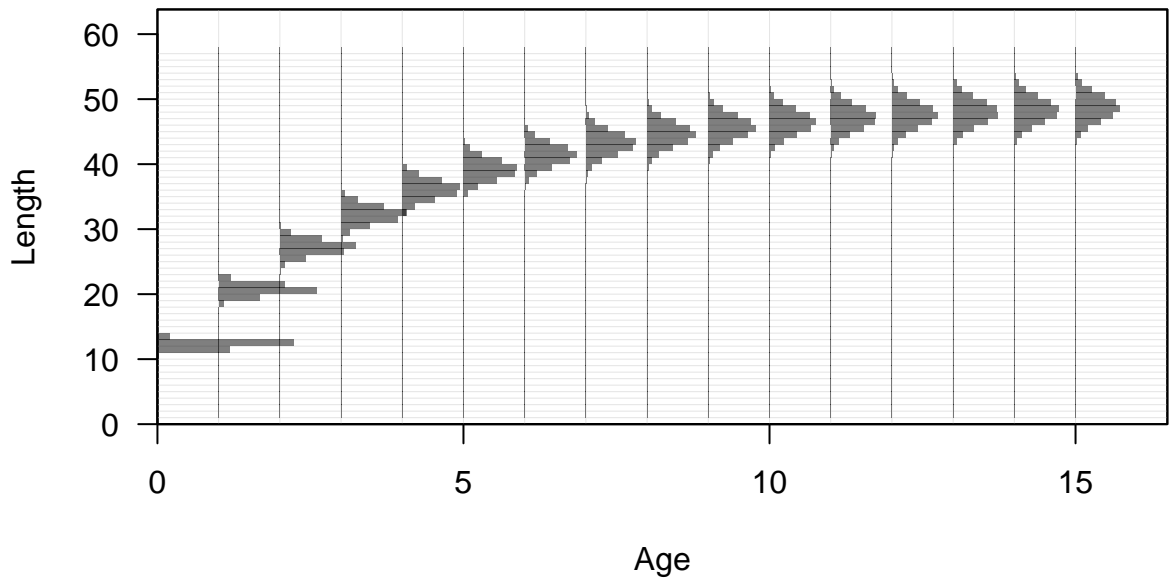


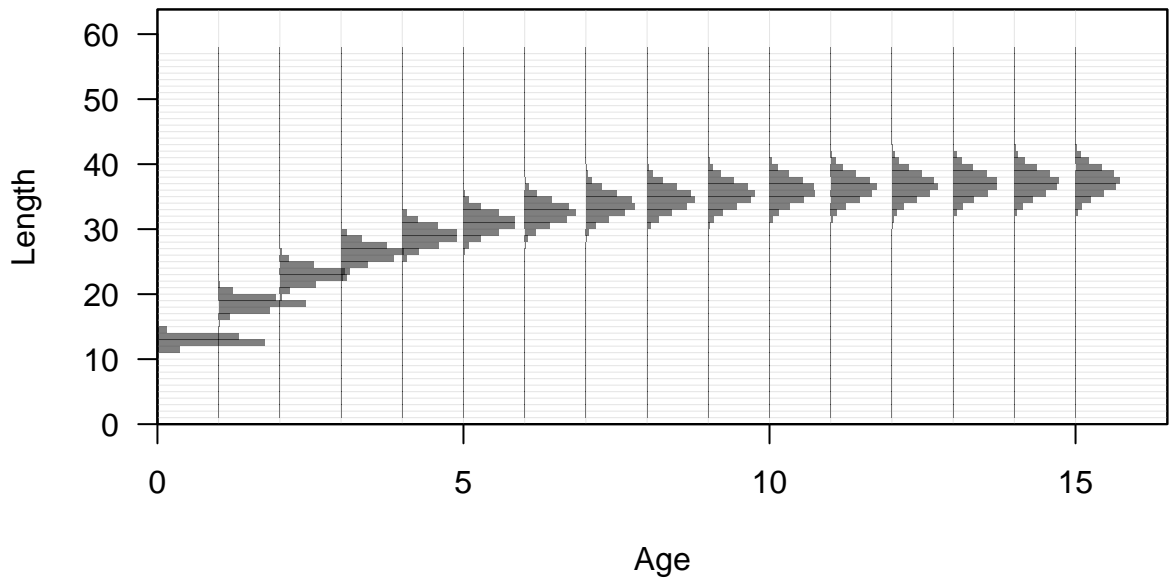


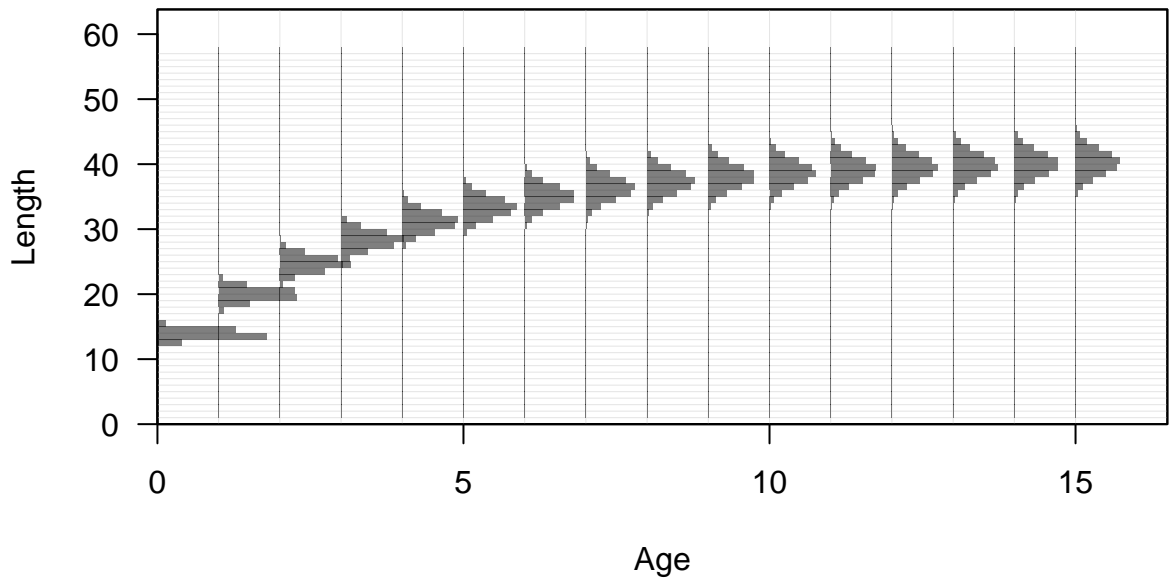




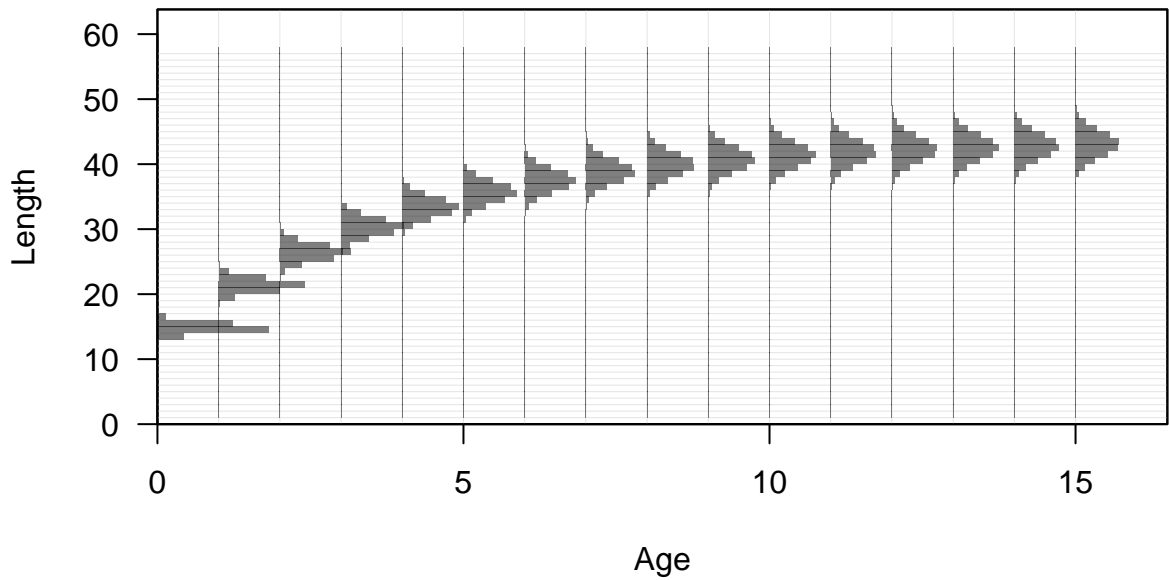


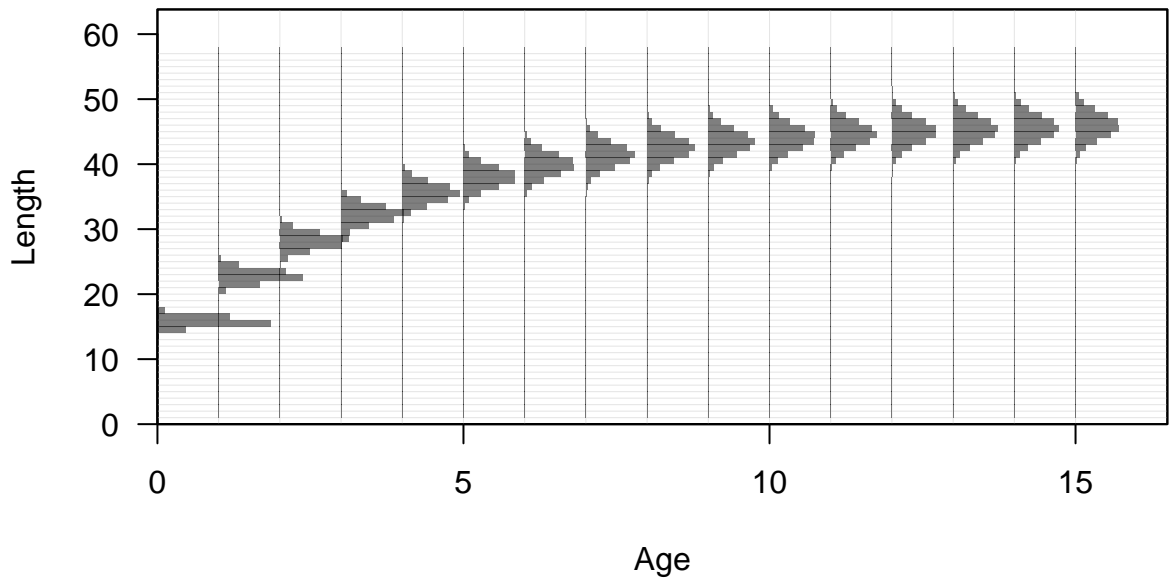


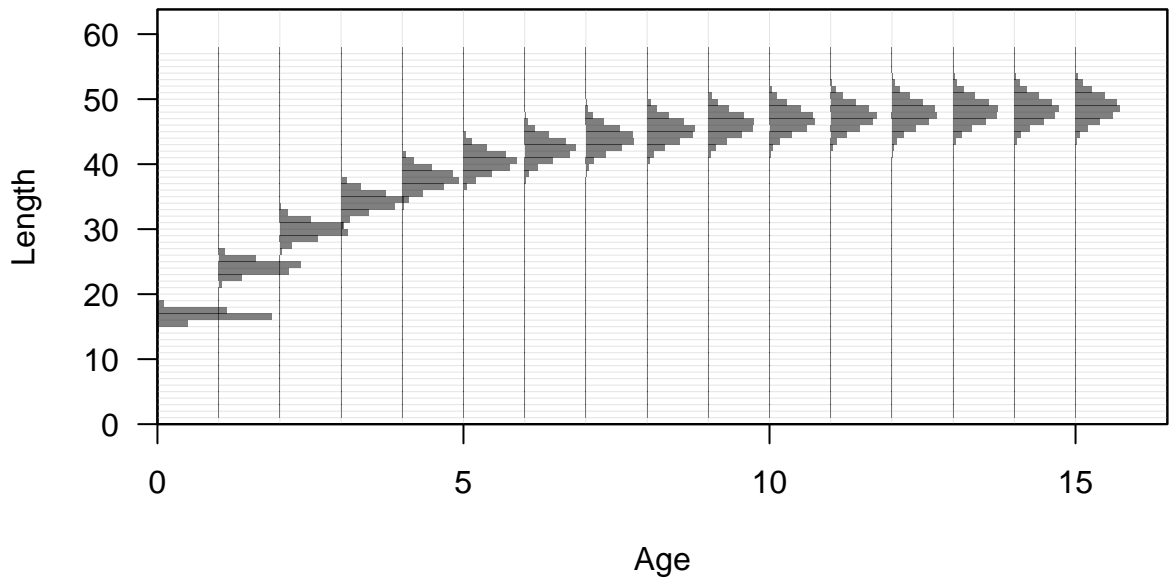


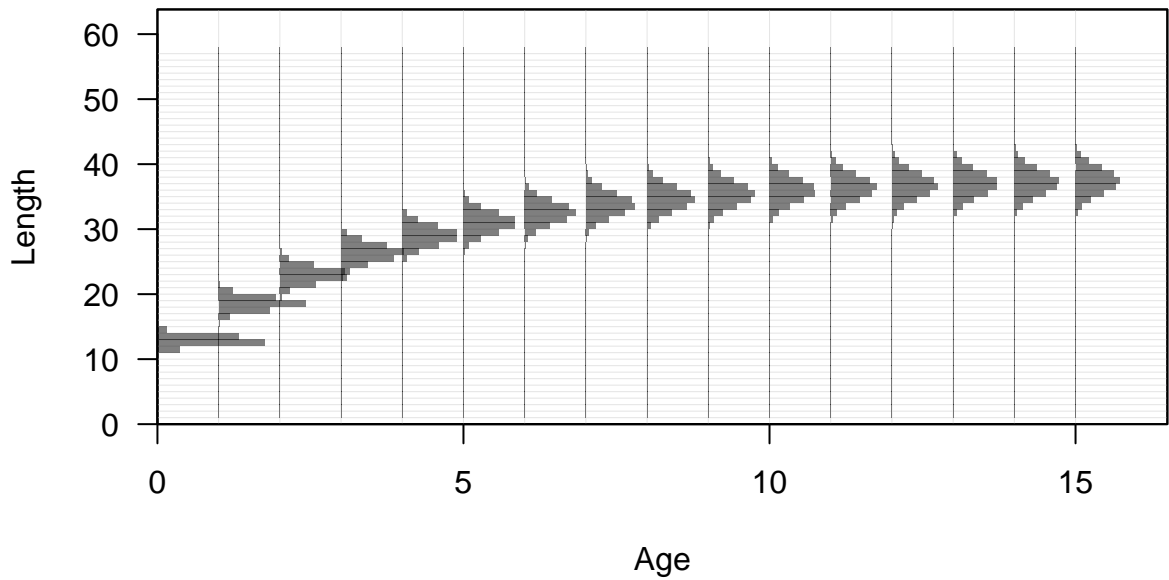


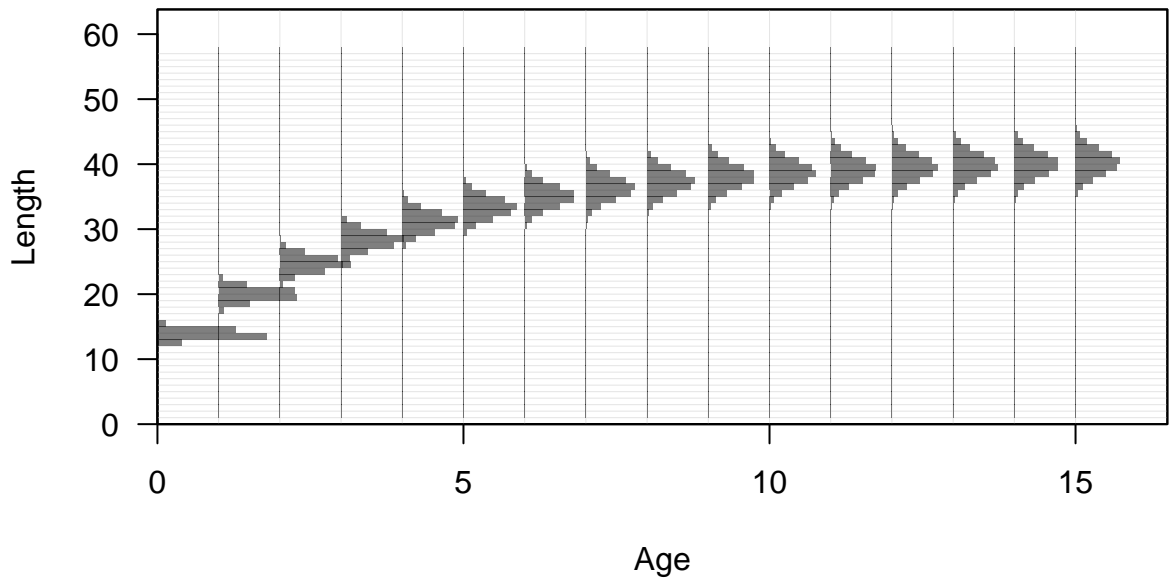


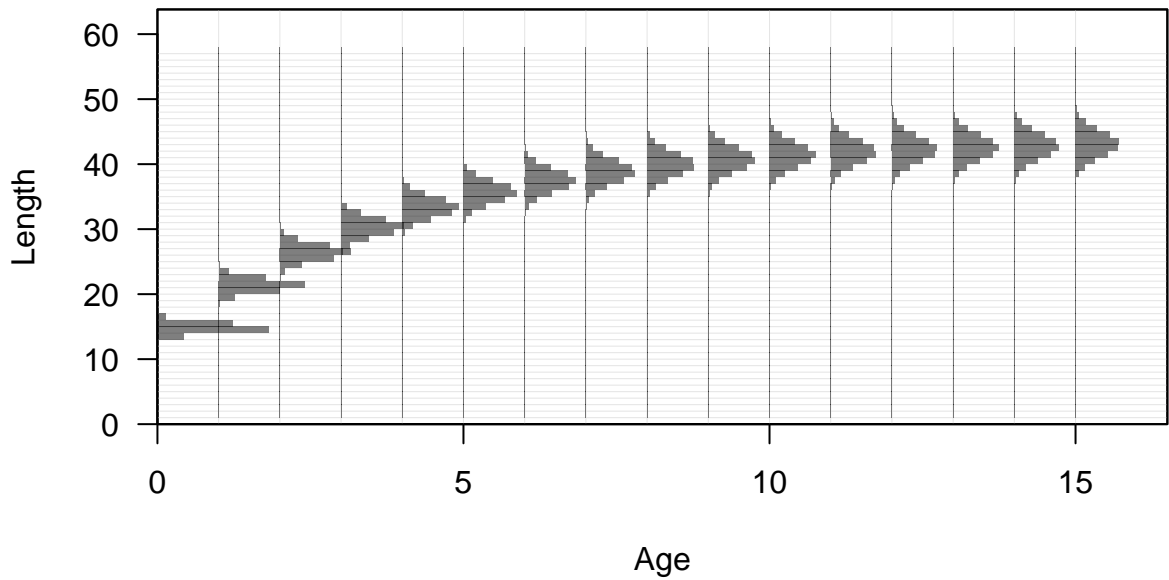


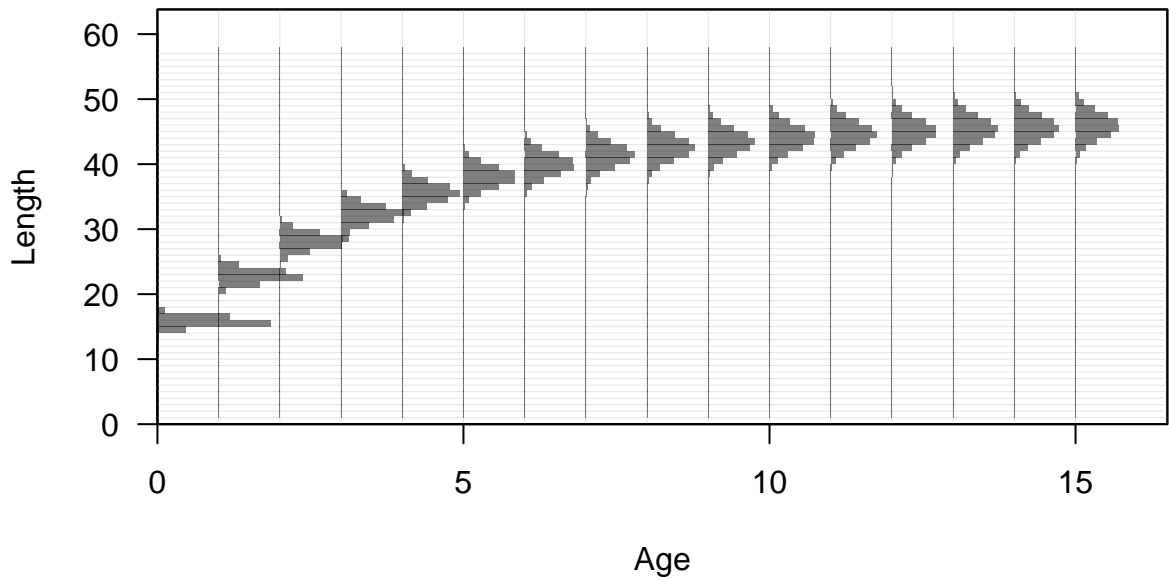


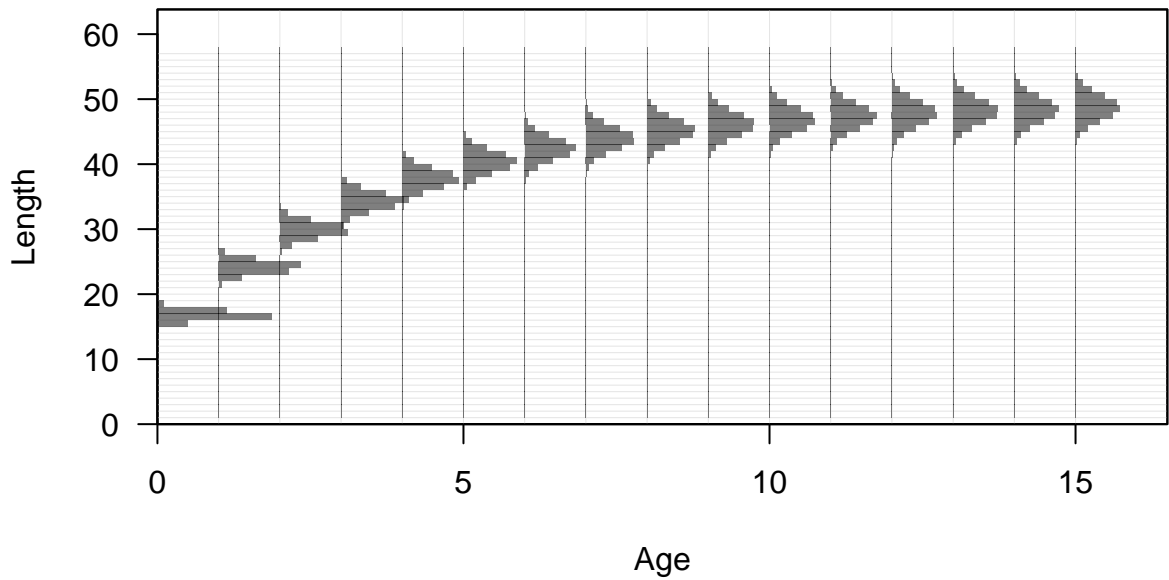






















Fecundity



Fecundity



Spawning output

3

2

1

0

0

10

20

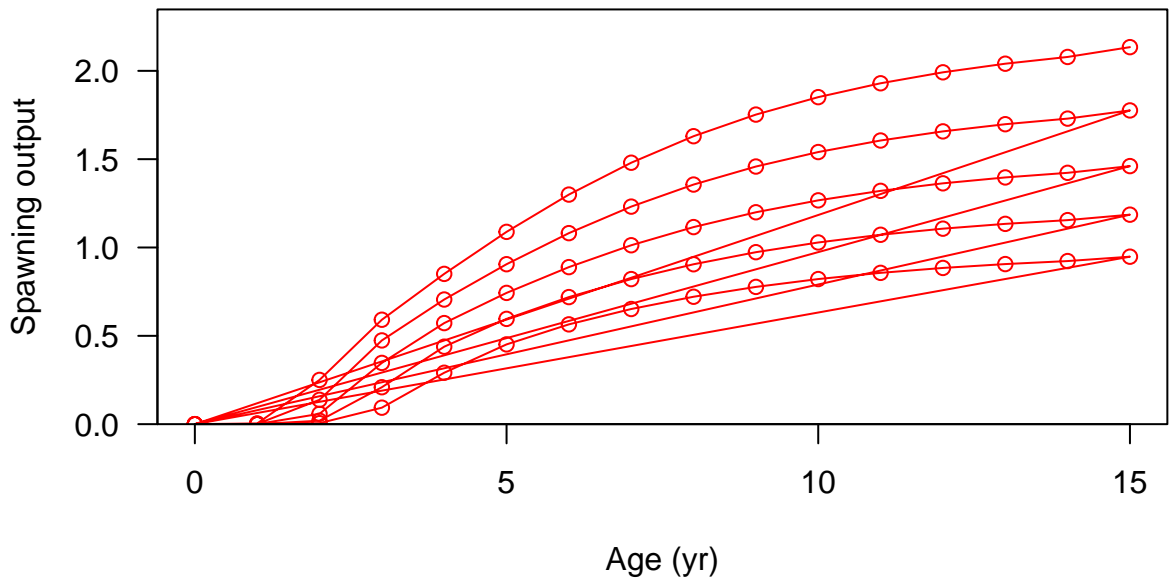
30

40

50

Length (cm)







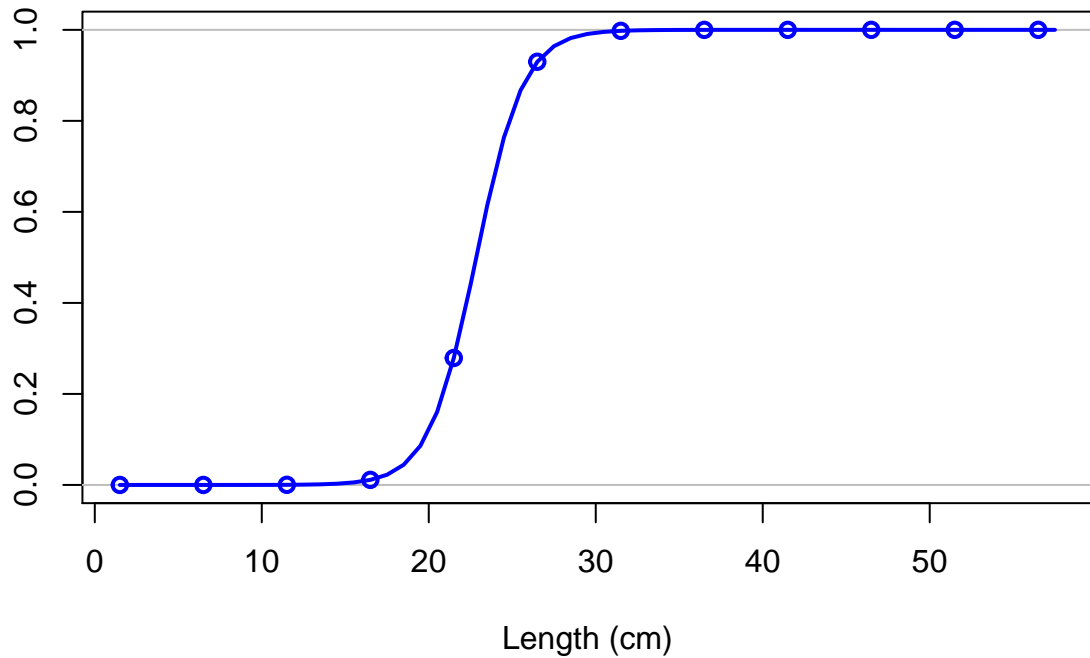
Hermaphroditism transition rate



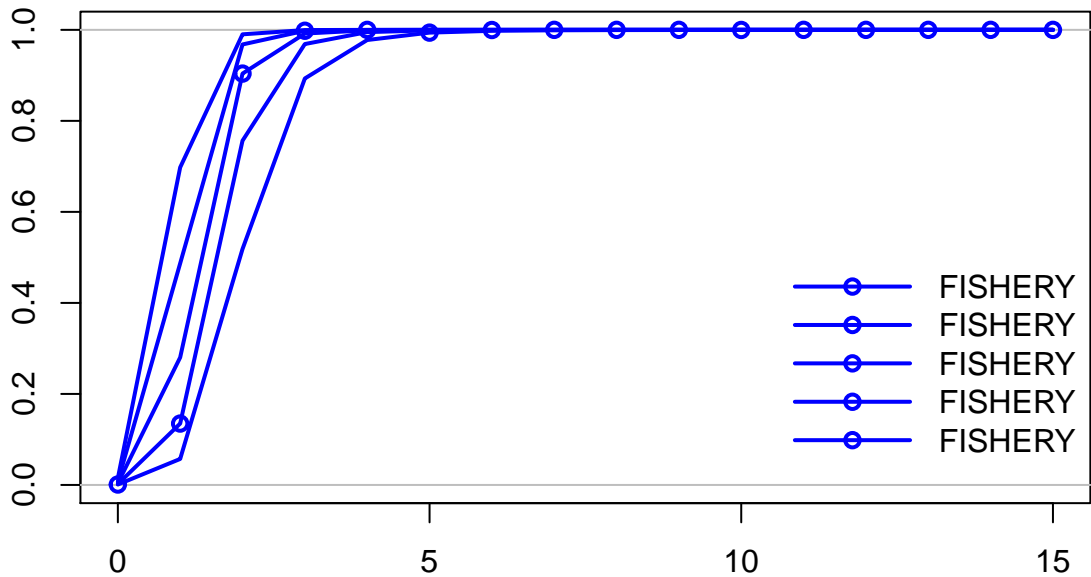
Fraction females by age at equilibrium



Selectivity

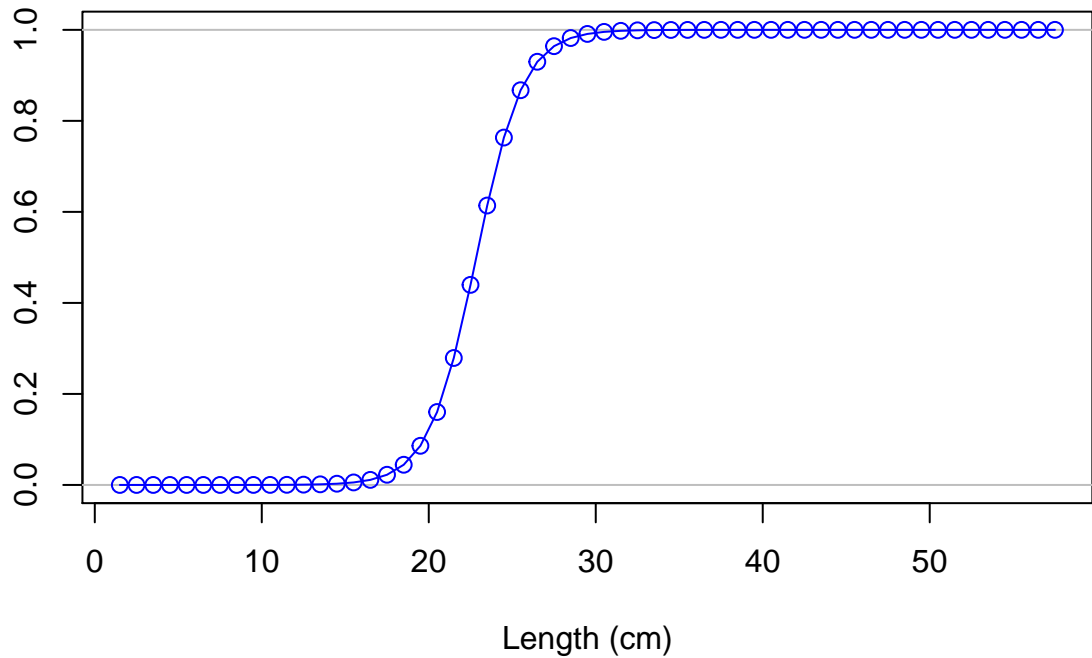


Selectivity

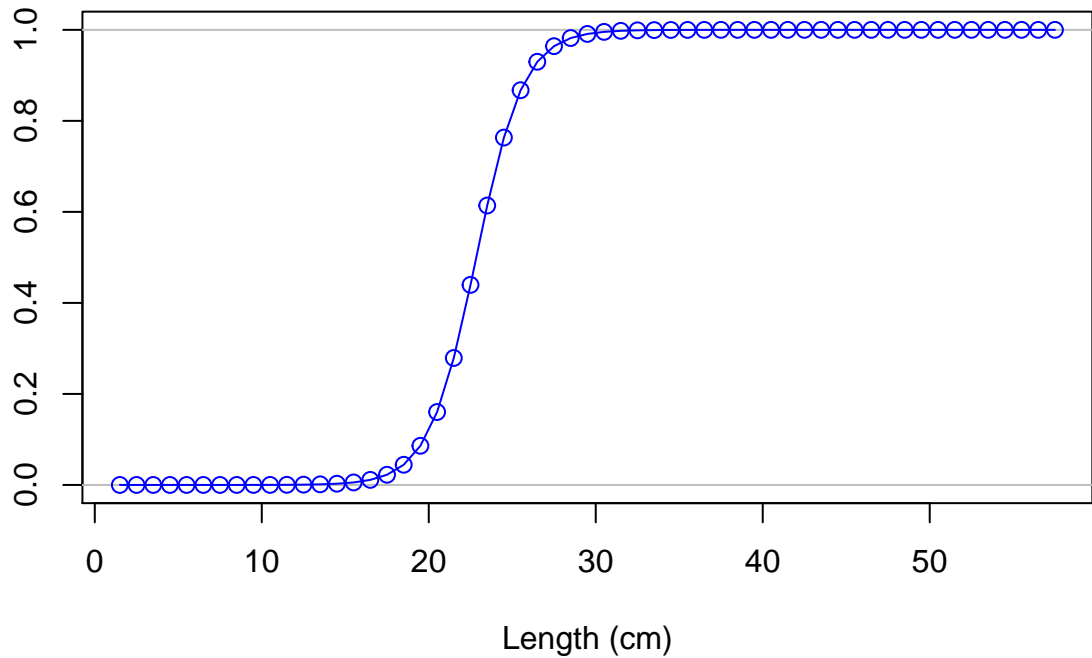


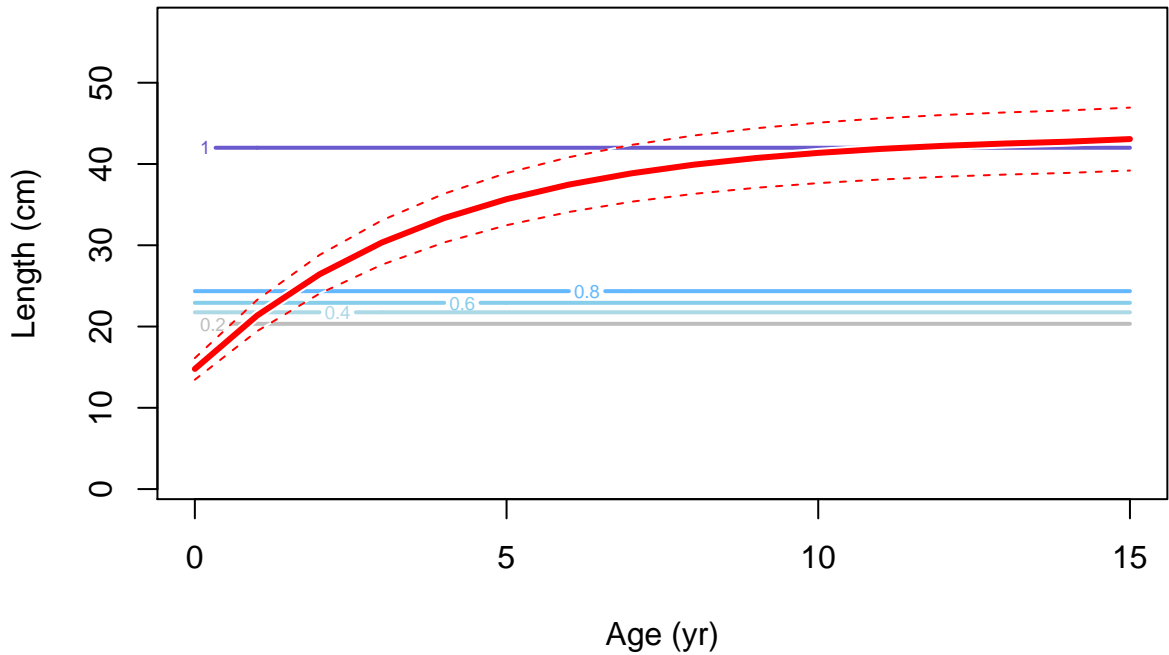
Age (yr)

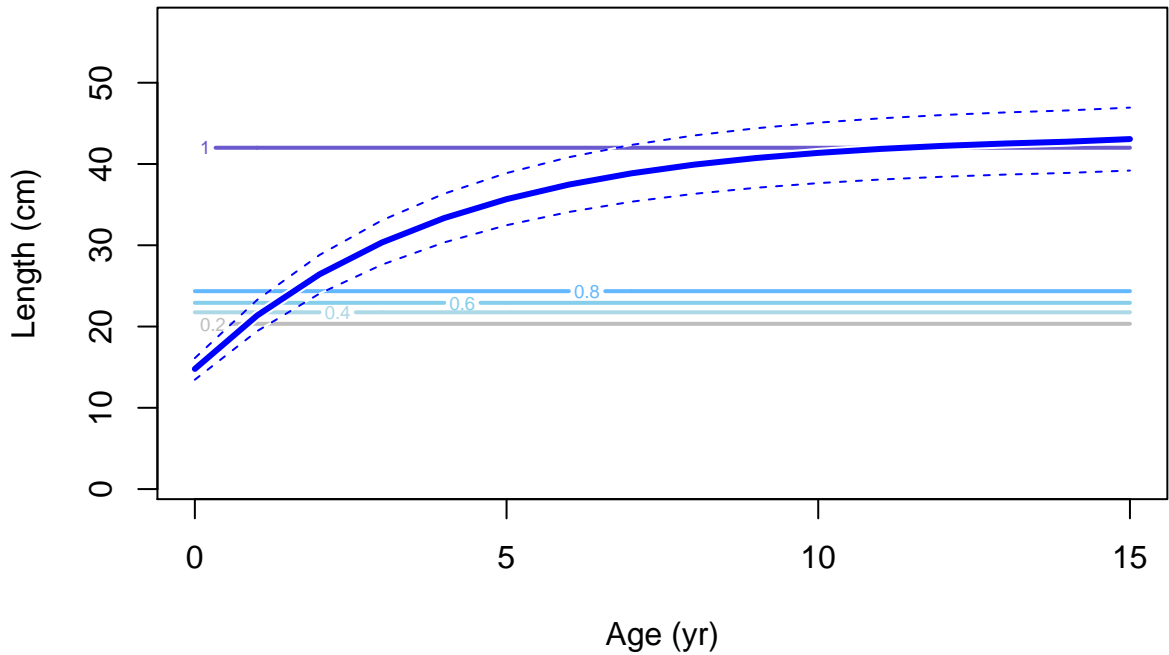
Selectivity



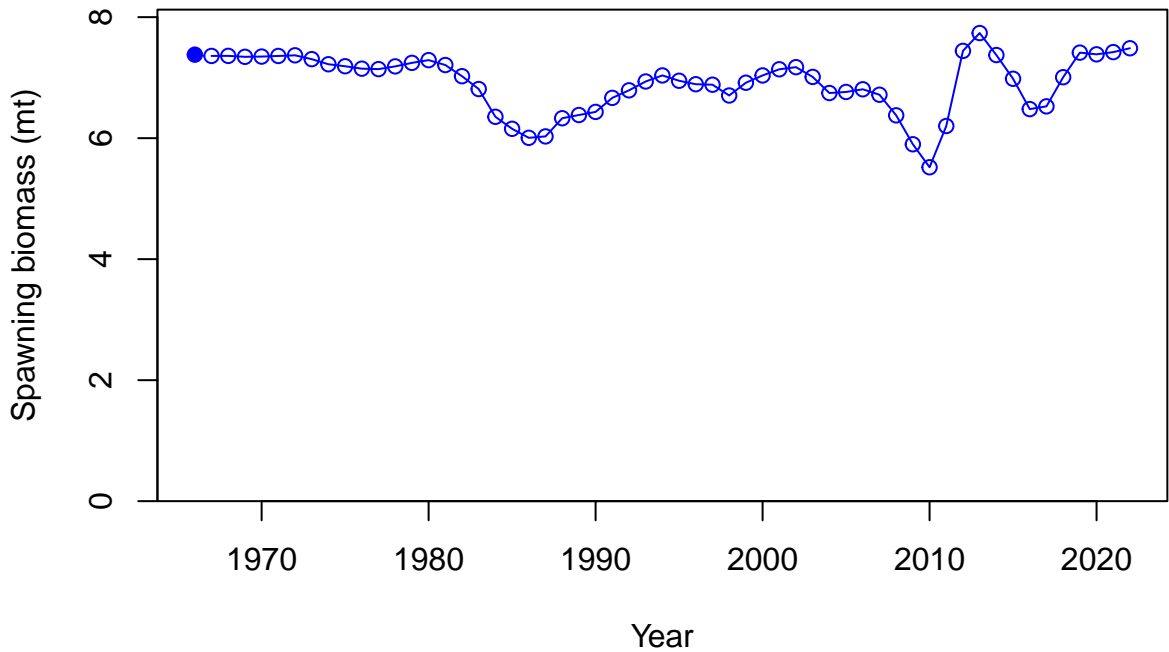
Selectivity

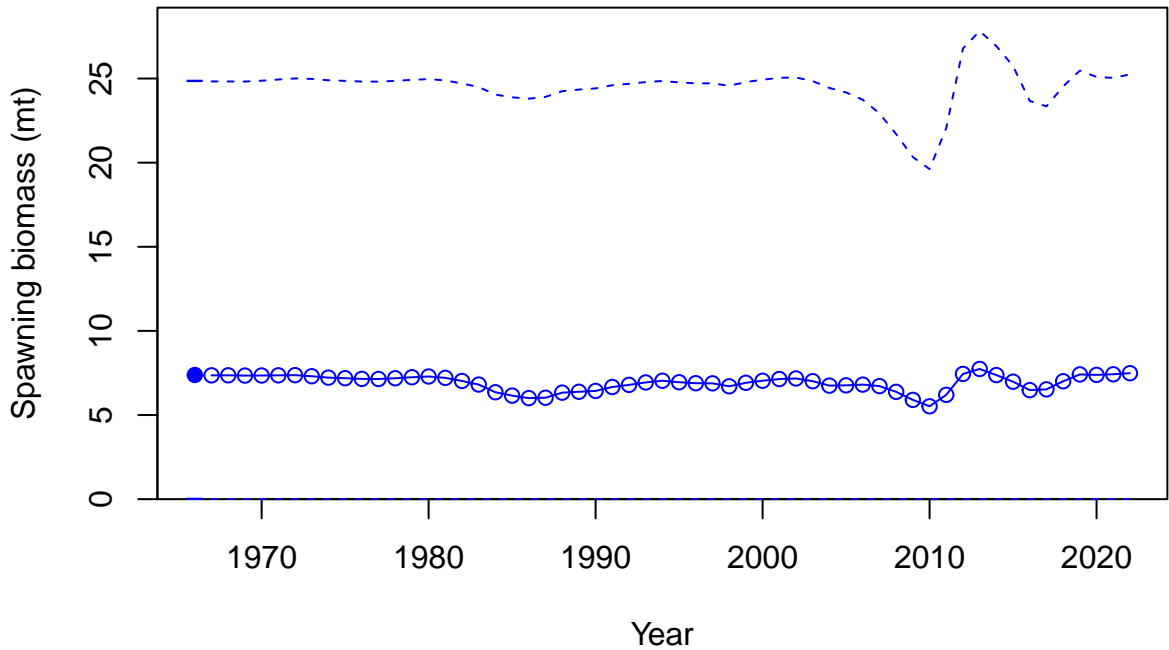




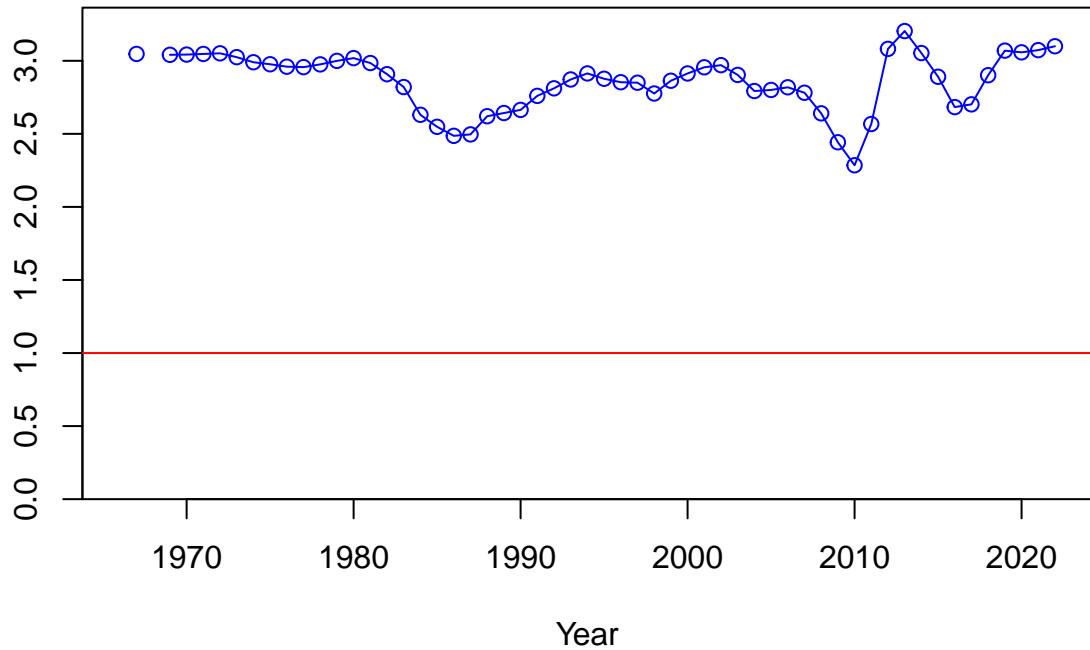




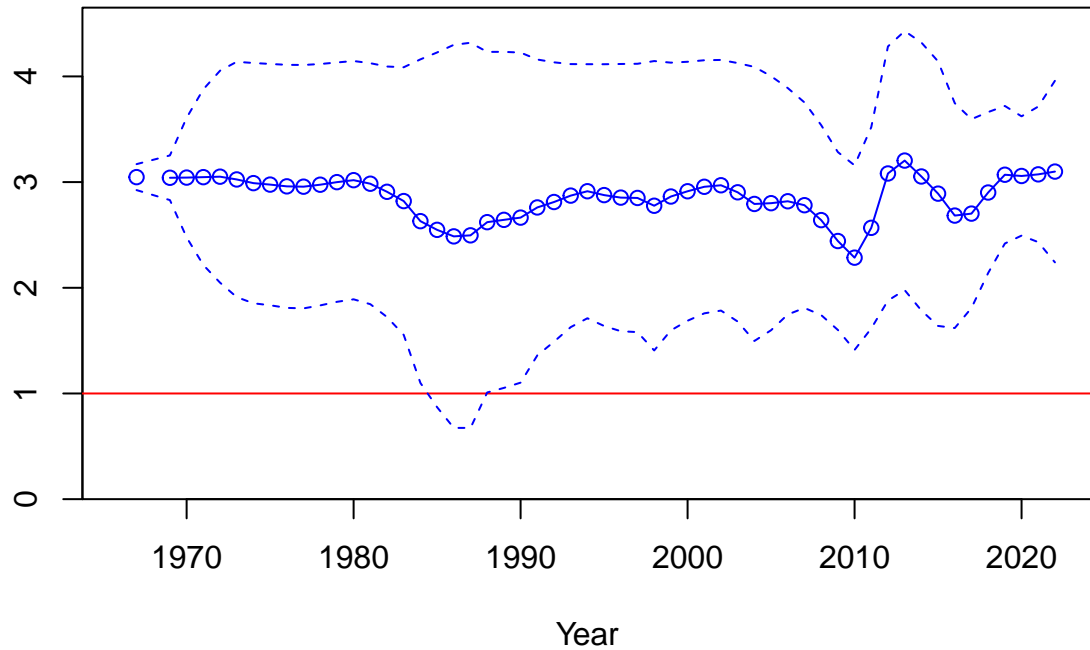


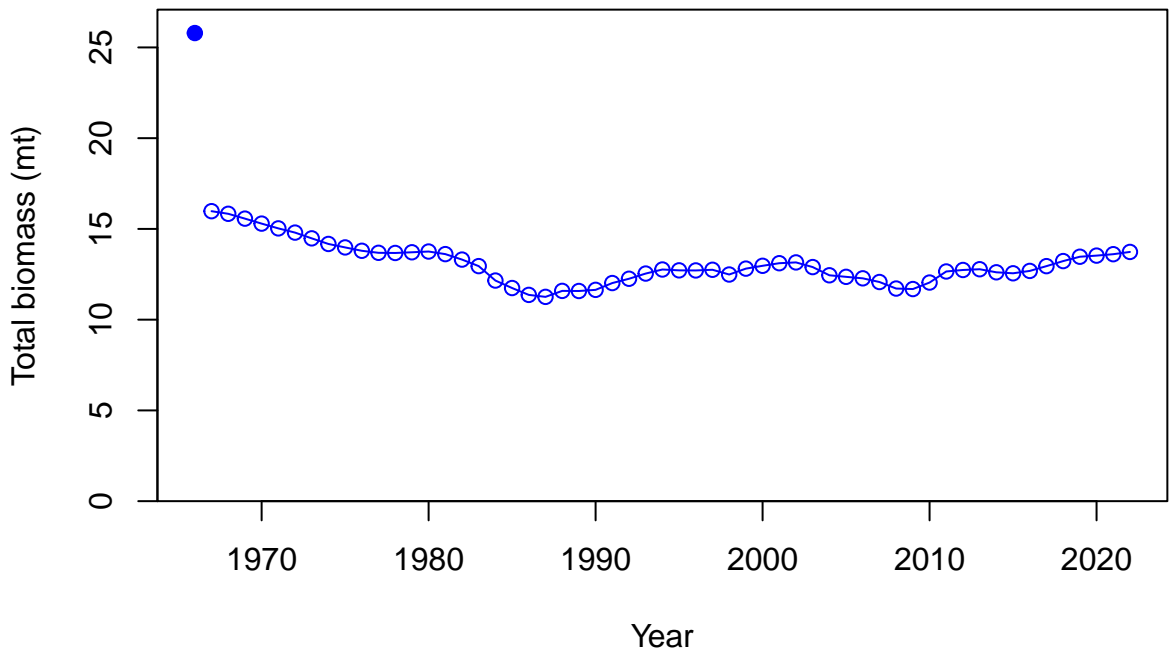


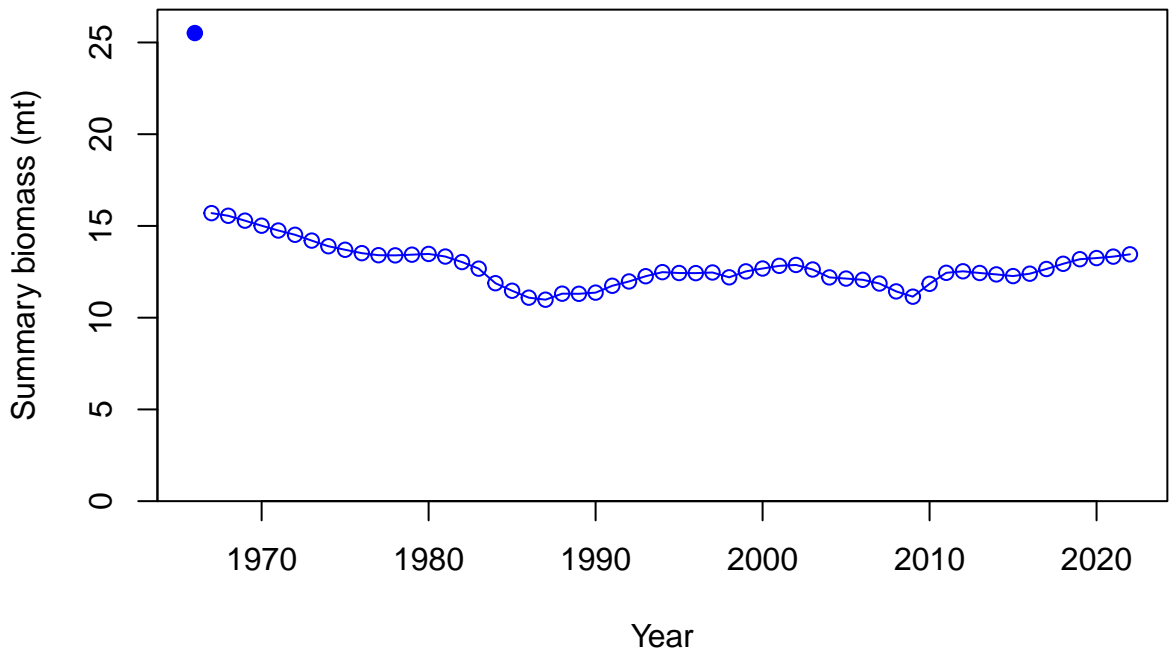
Relative spawning biomass:  $B/B_{MSY}$



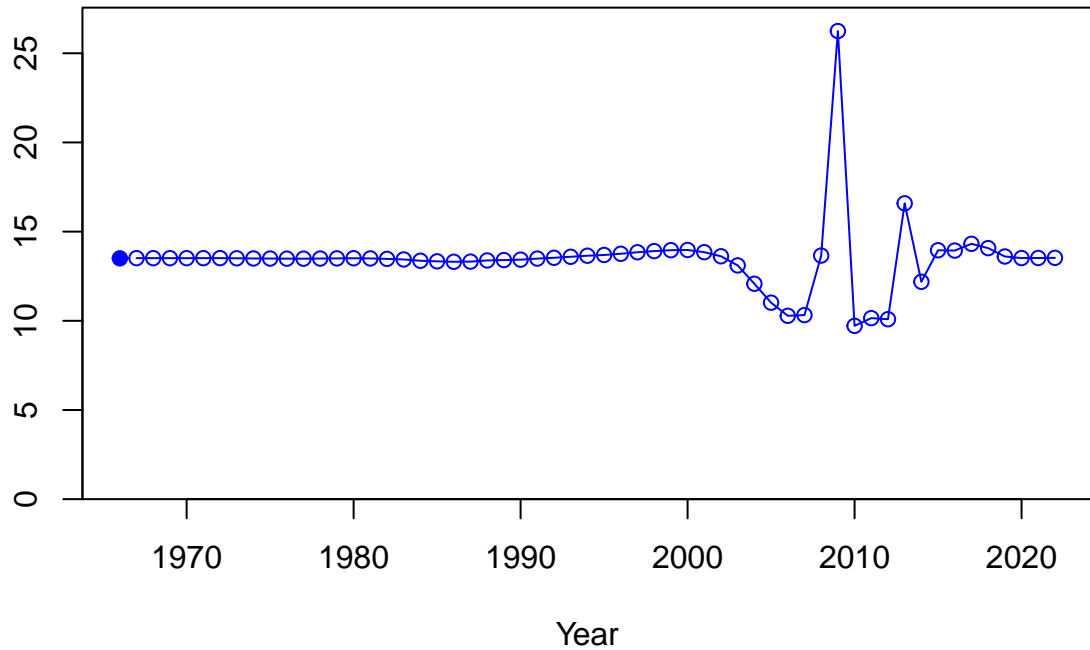
Relative spawning biomass:  $B/B_{MSY}$



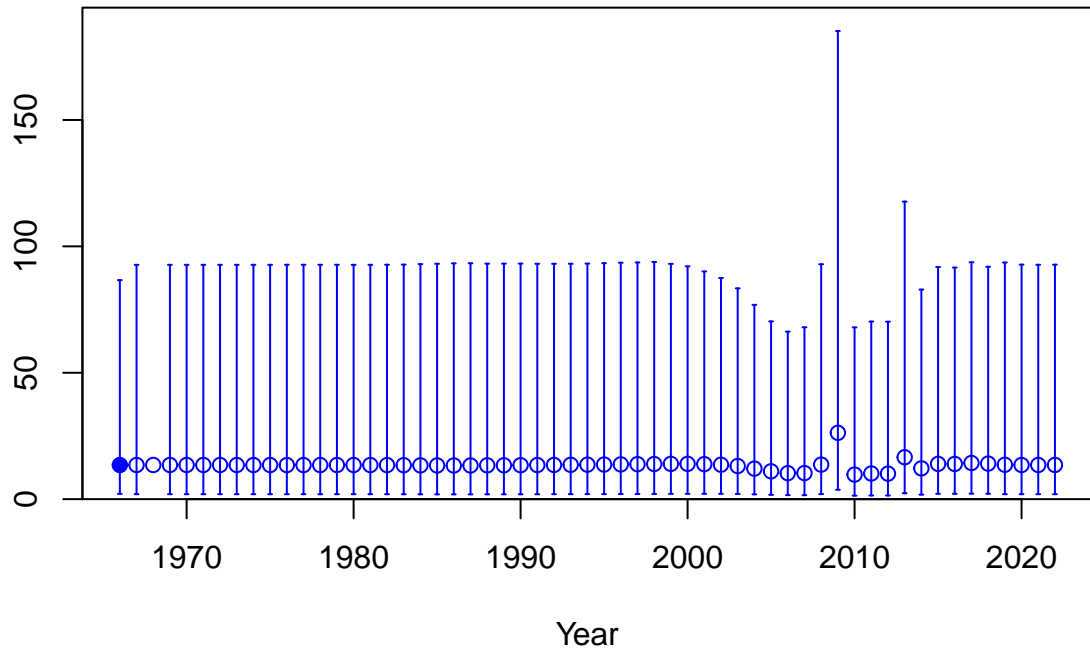




Age-0 recruits (1,000s)

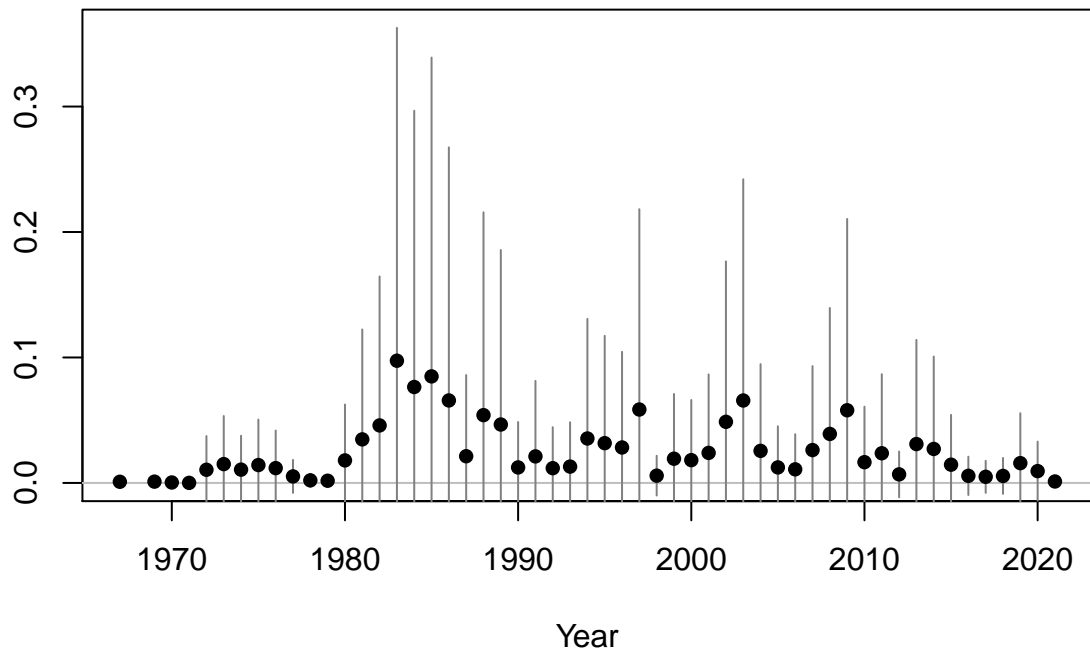


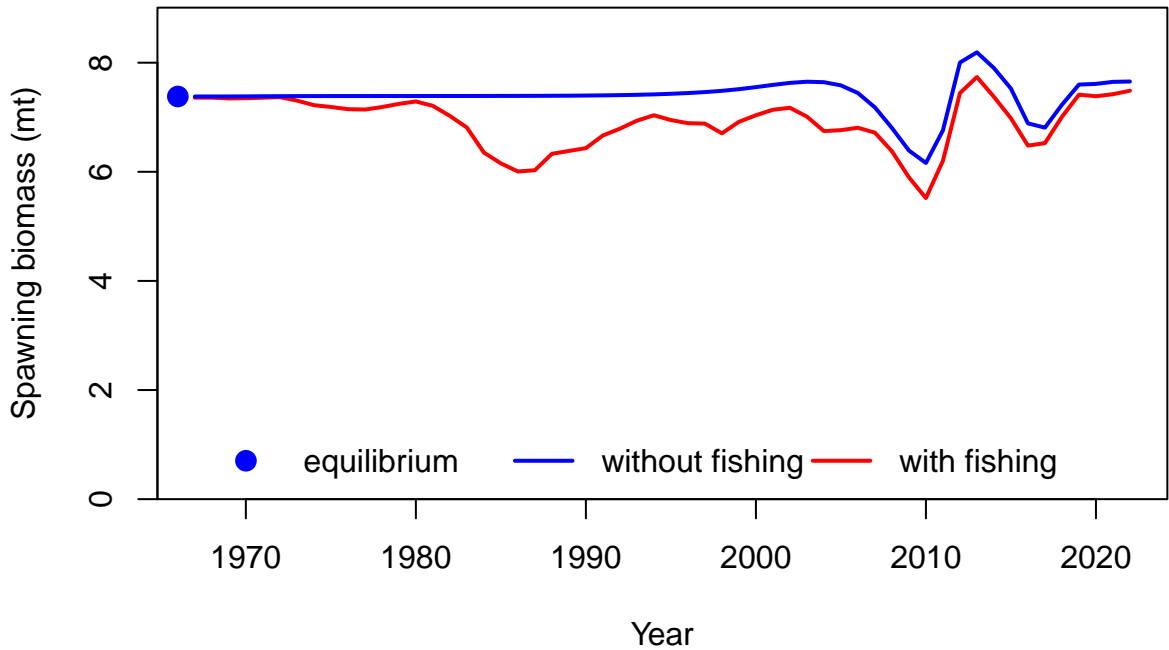
Age-0 recruits (1,000s)



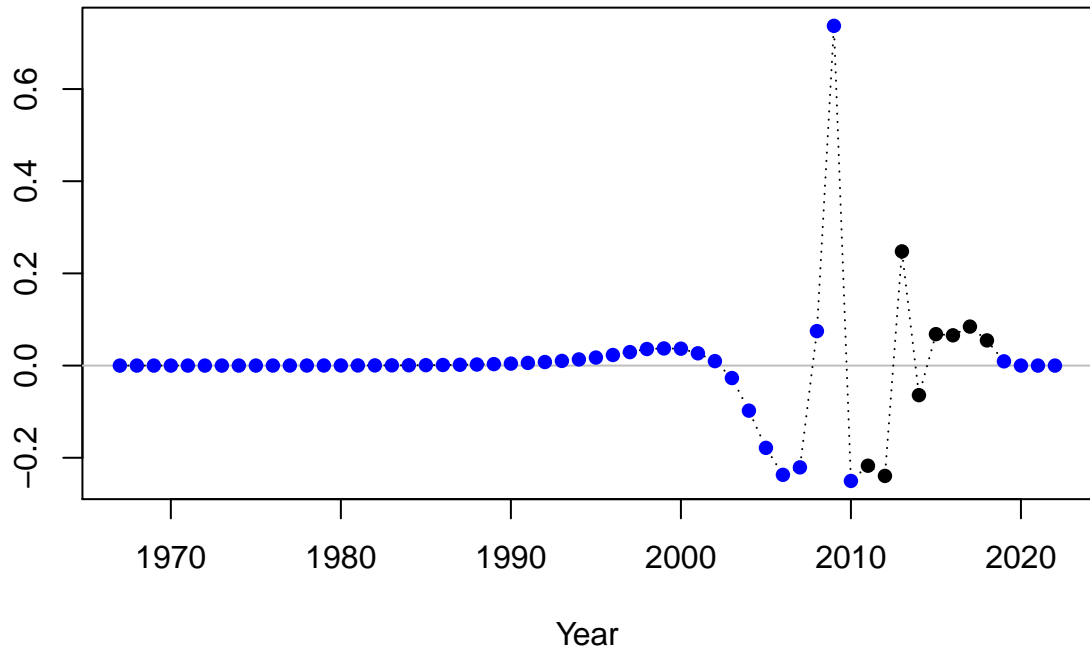


Summary Fishing Mortality

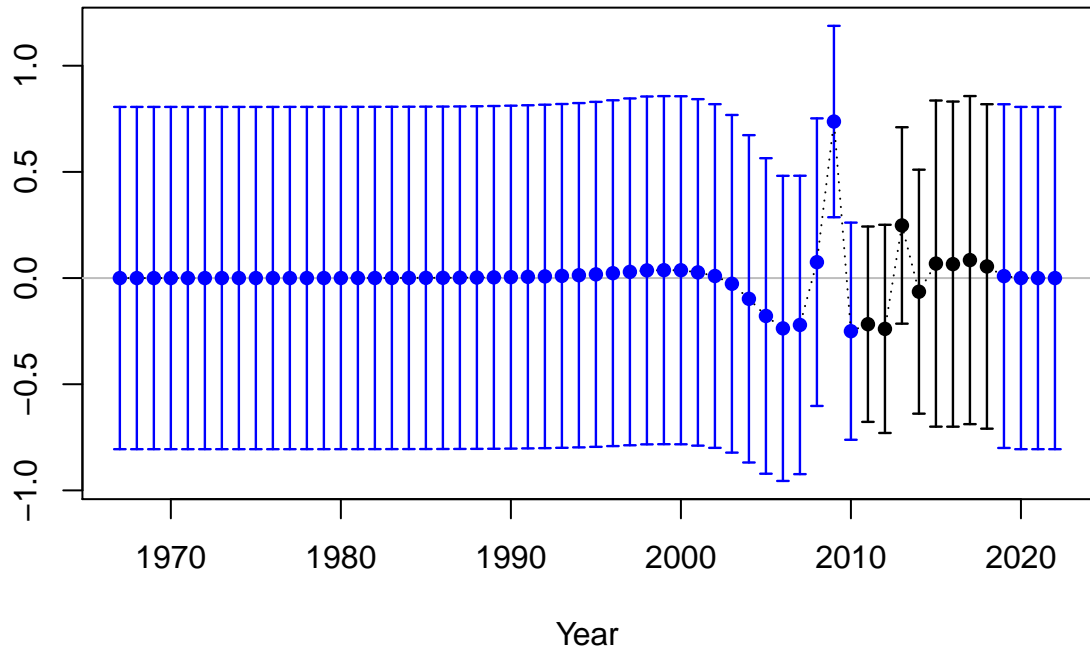




Log recruitment deviation

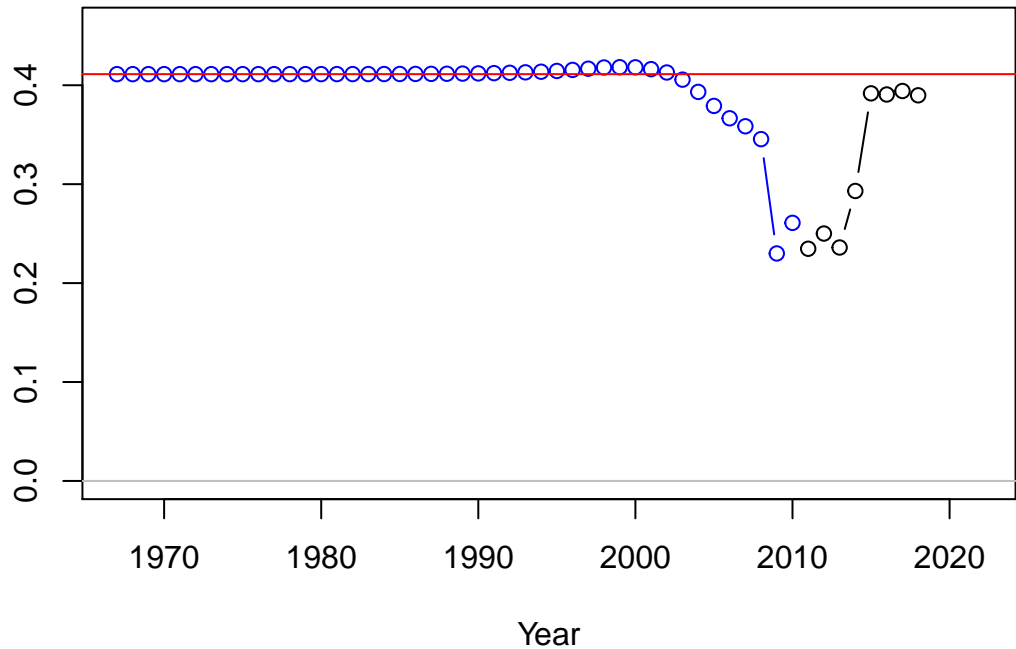


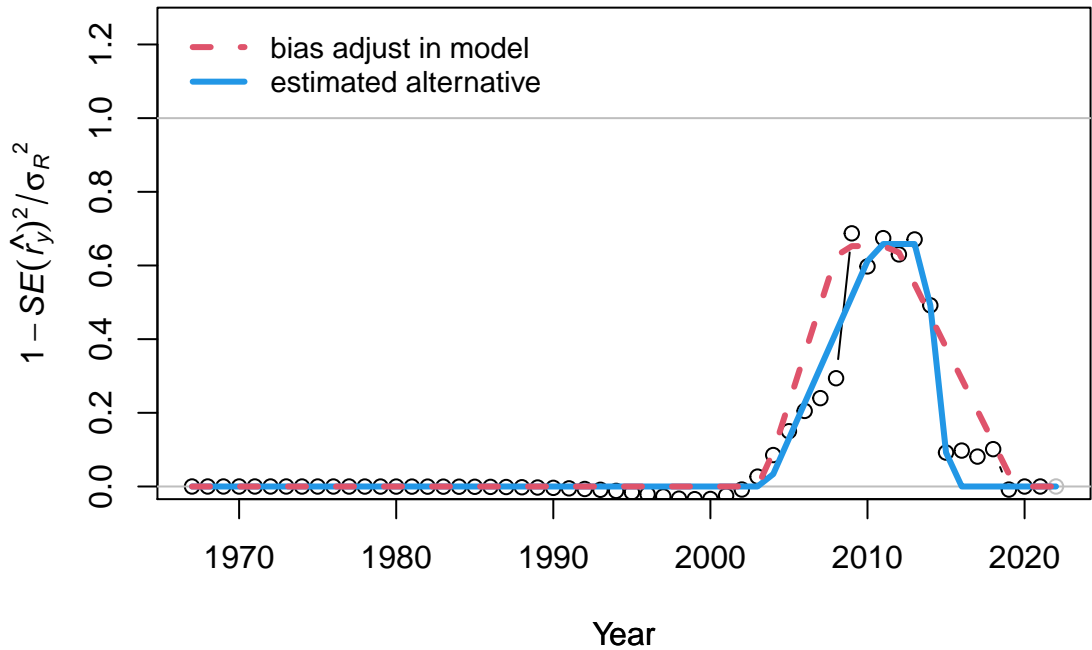
Log recruitment deviation

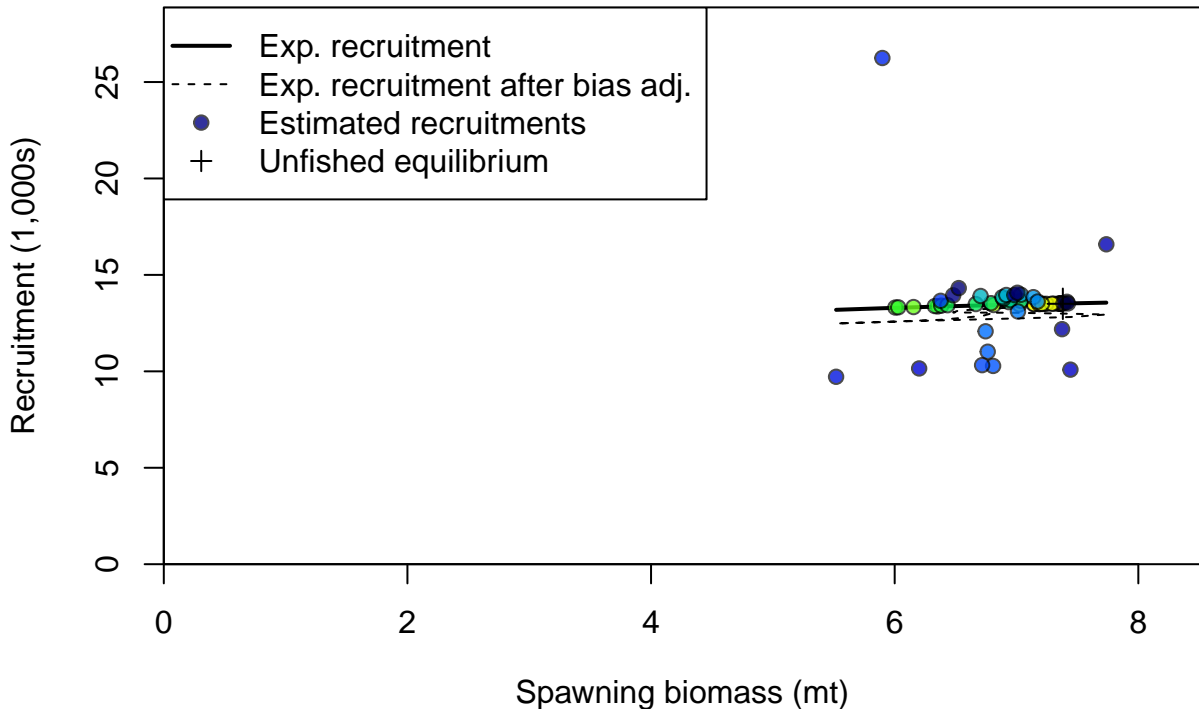


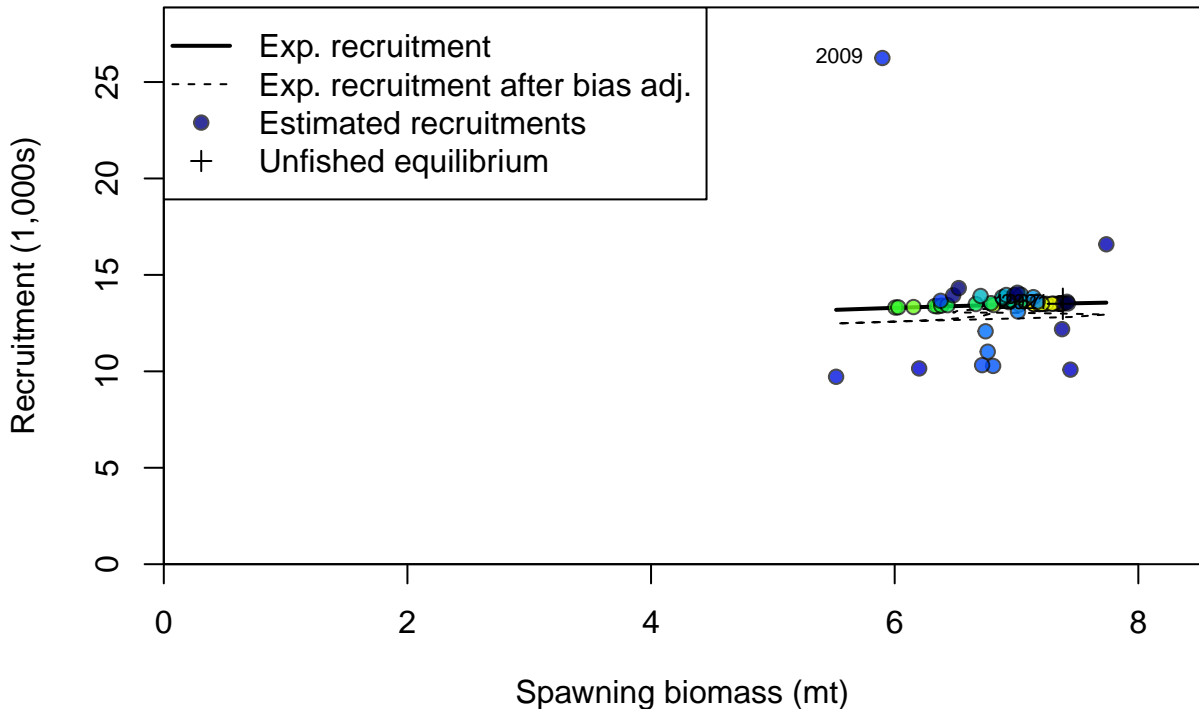
## Recruitment deviation variance

Asymptotic standard error estimate

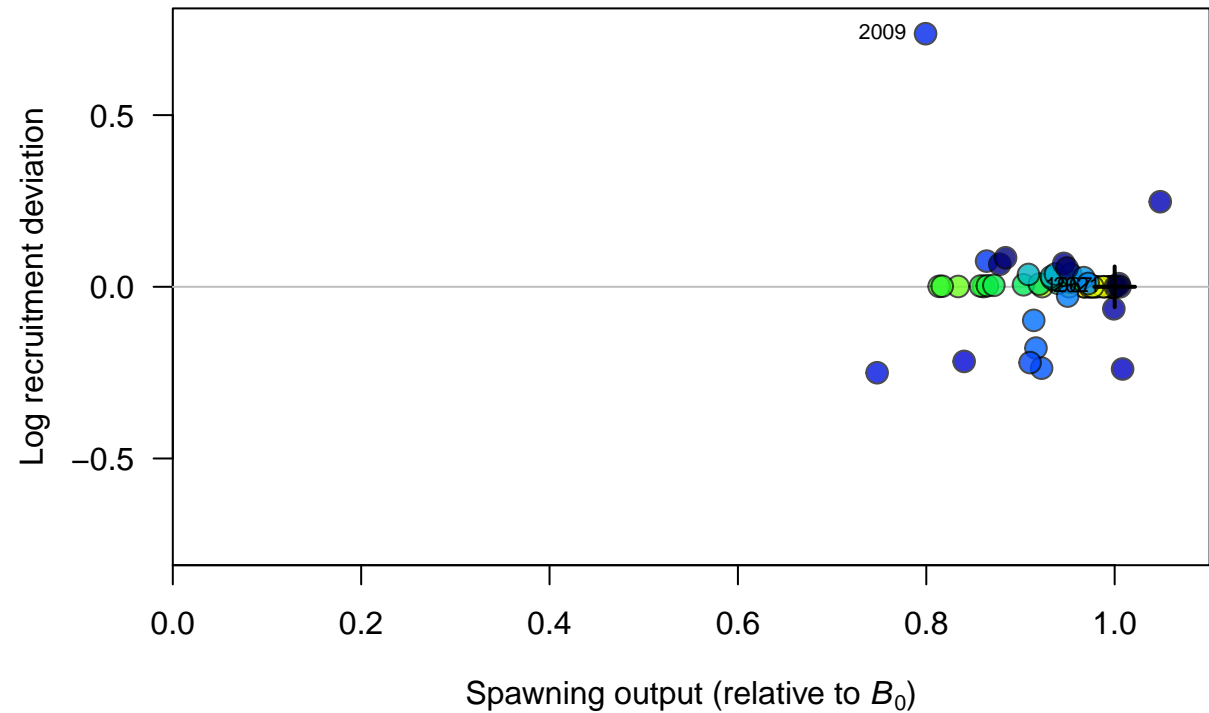


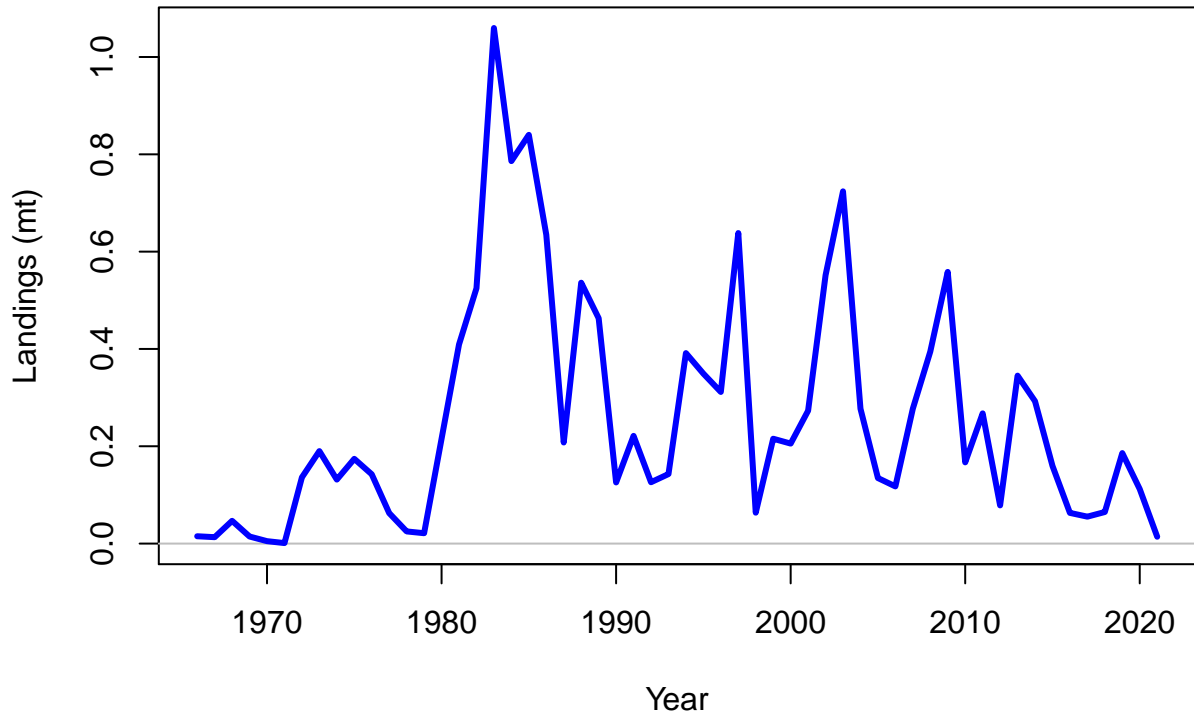


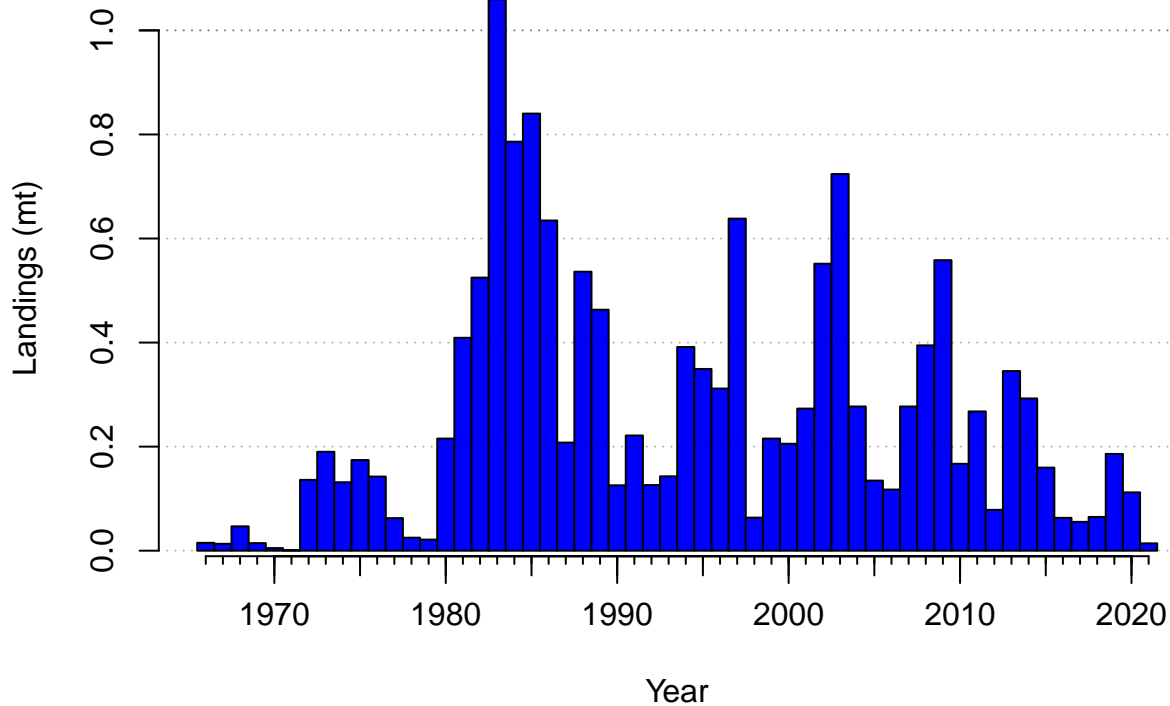


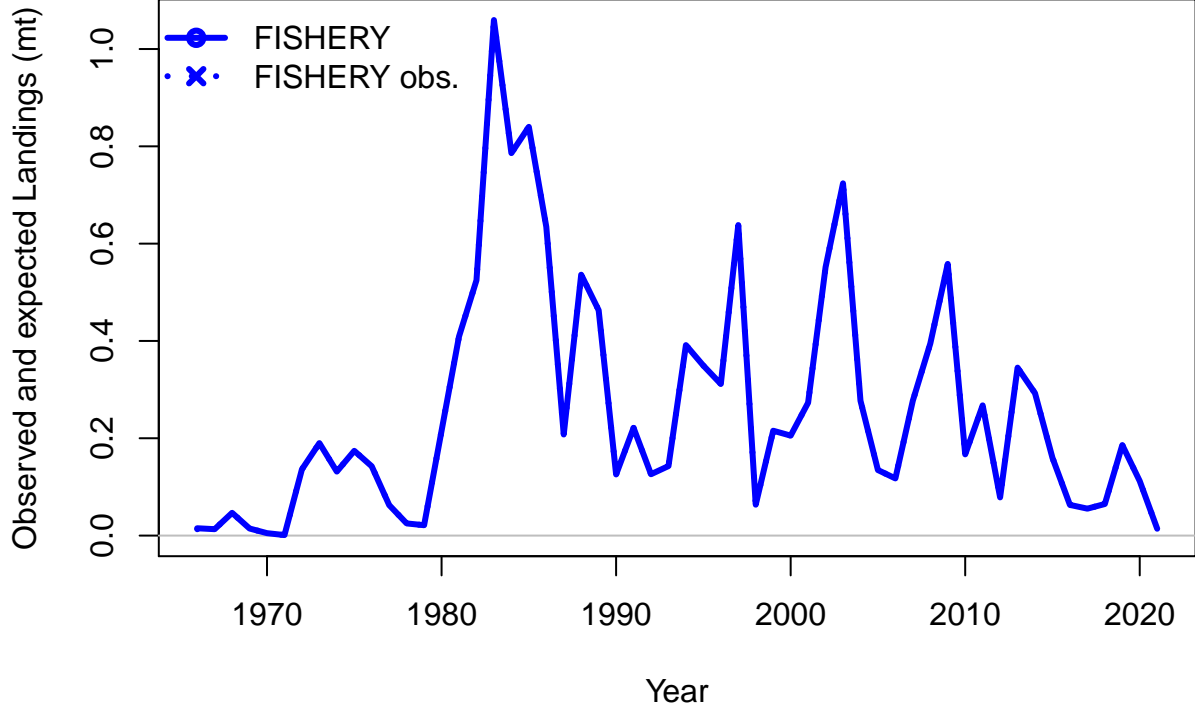


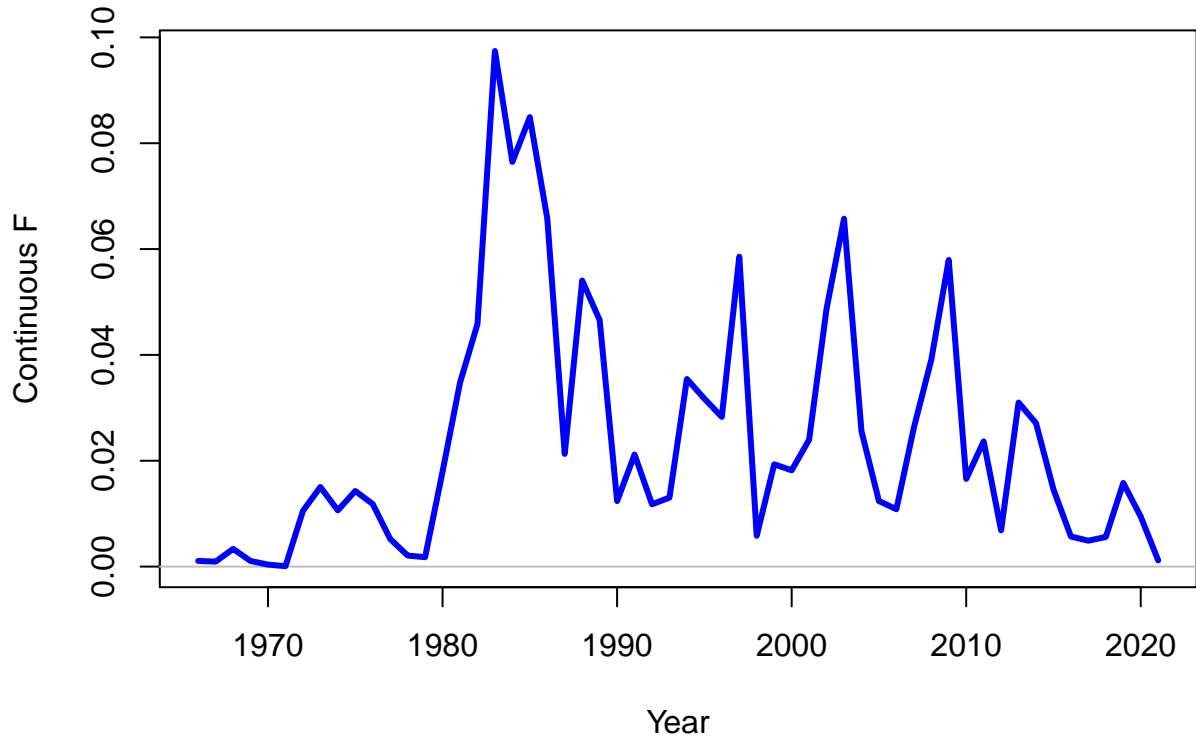




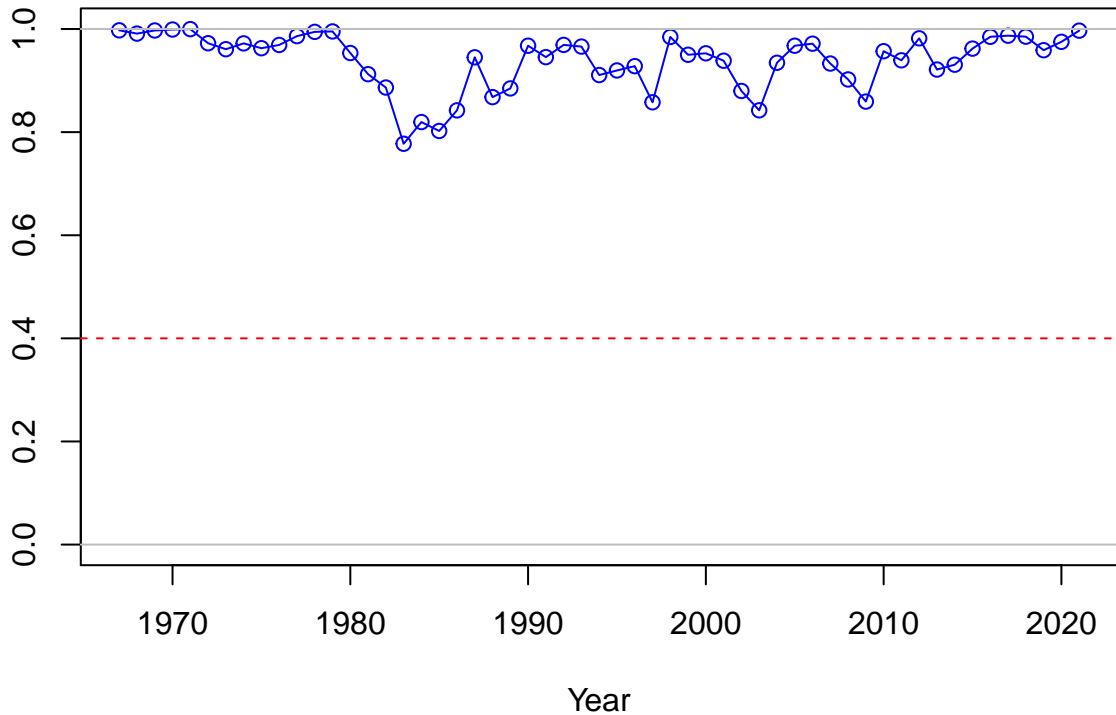




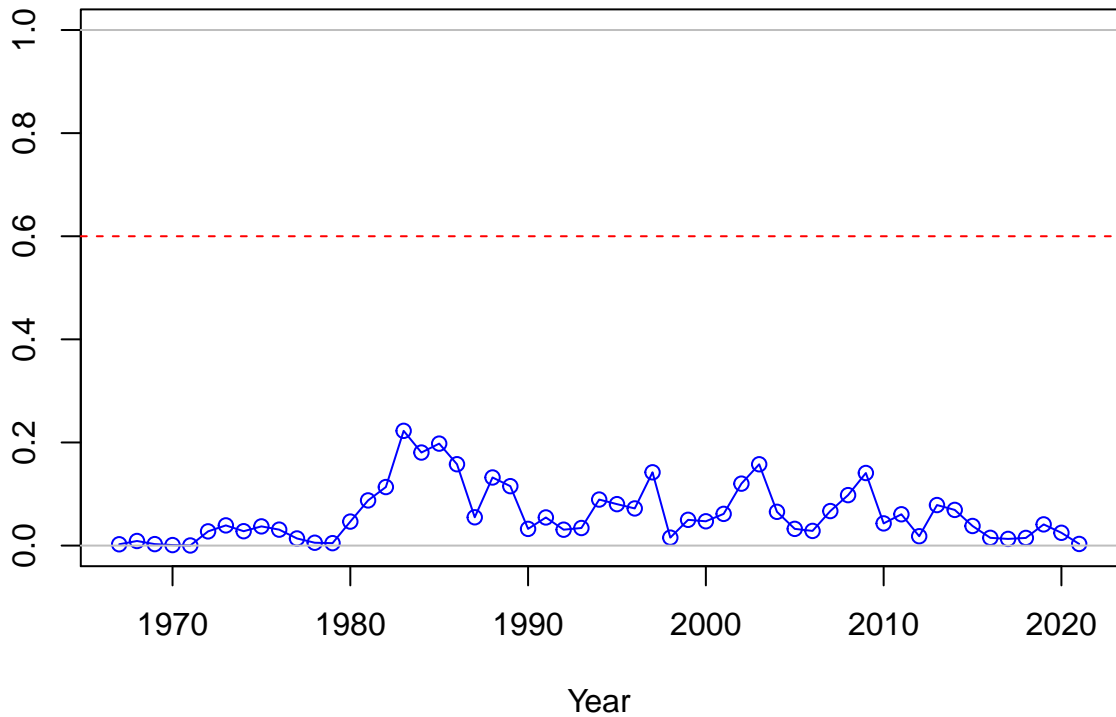




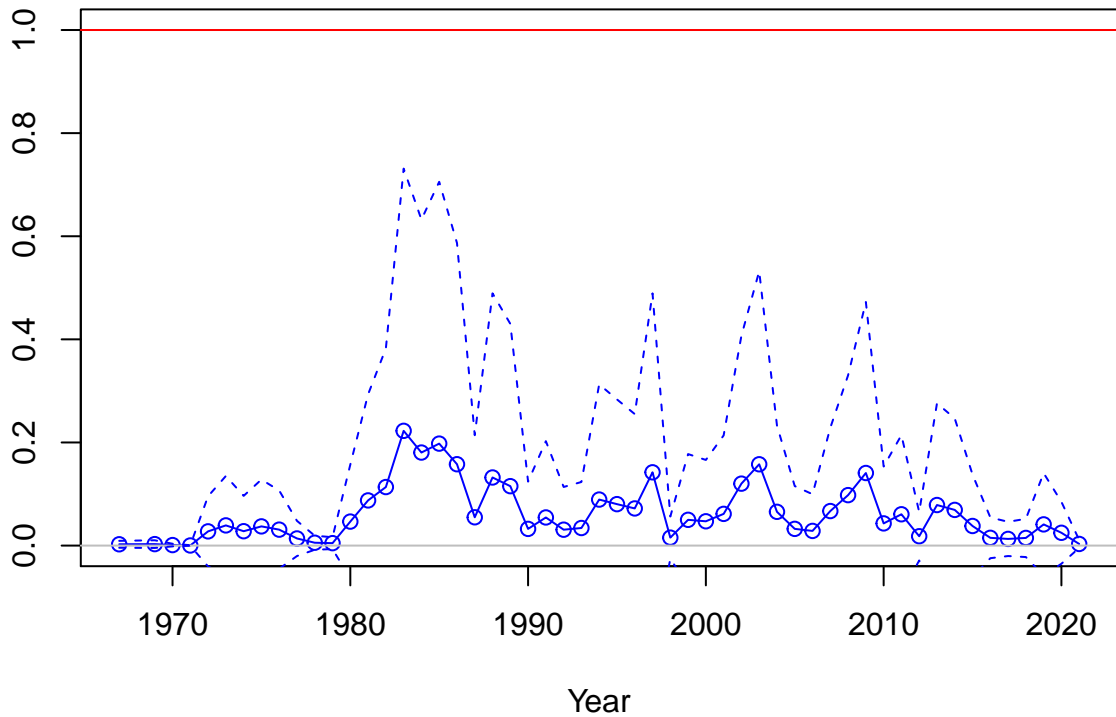
SPR



1-SPR

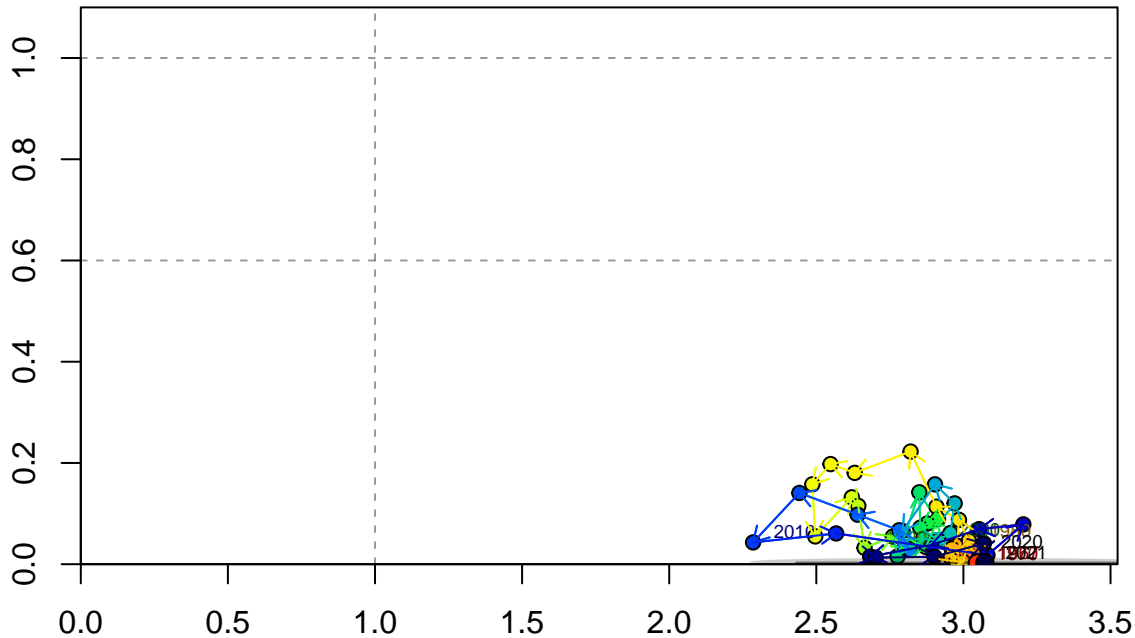


Fishing intensity: 1-SPR



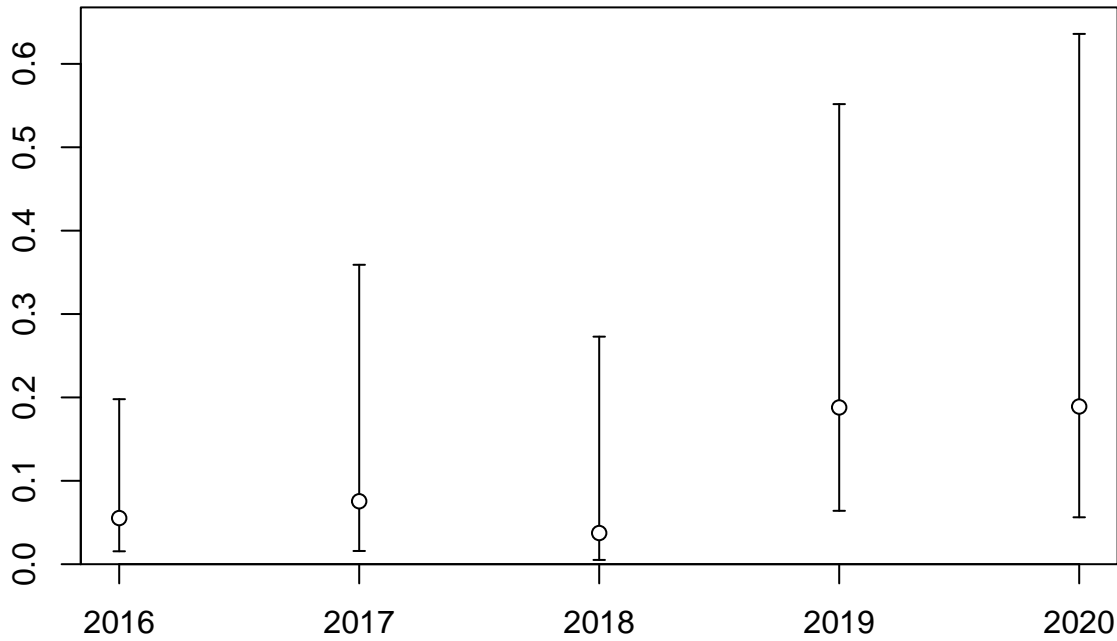


Fishing intensity: 1-SPR



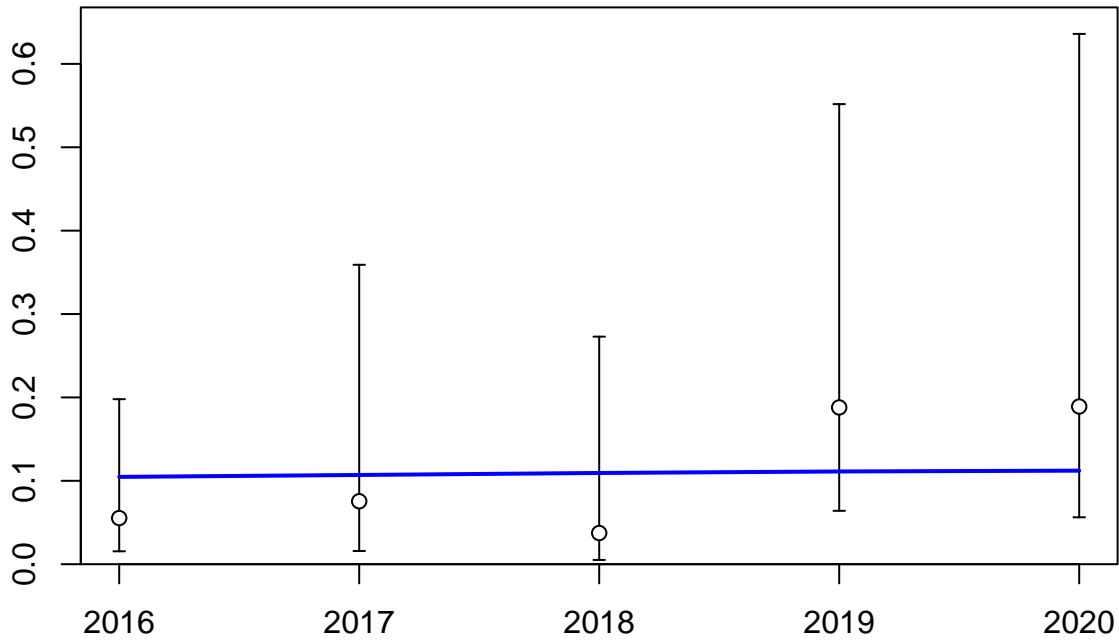
Relative spawning output:  $B/B_{MSY}$

Index

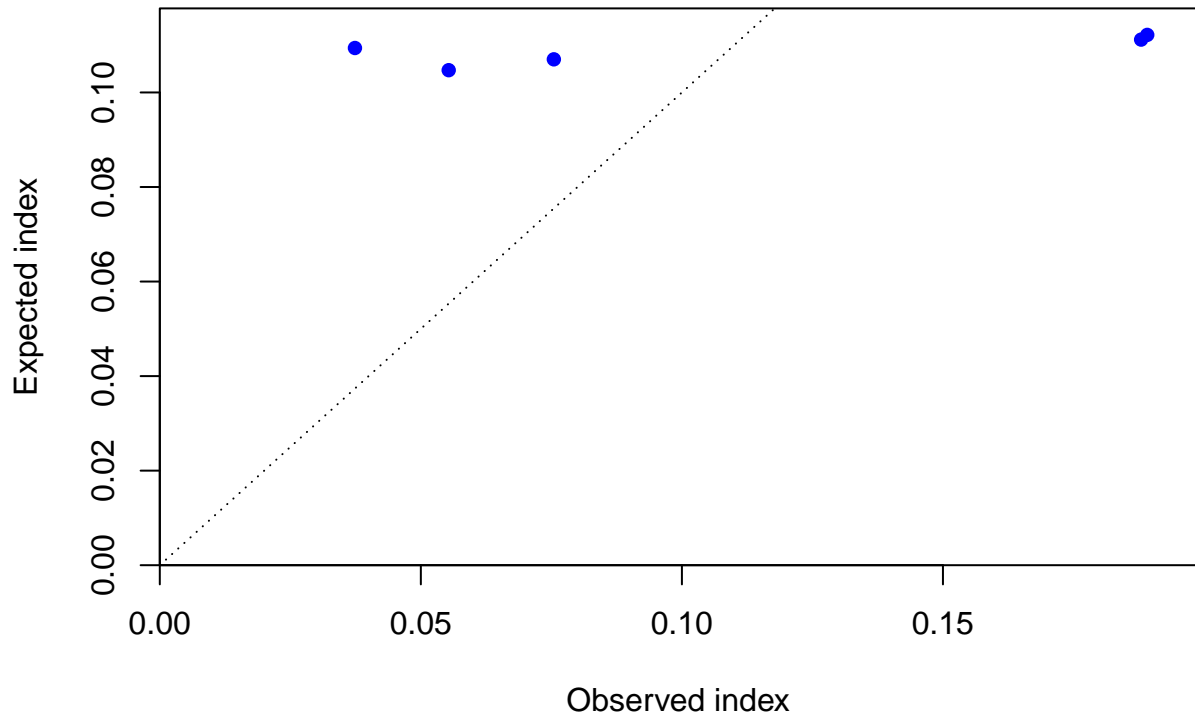


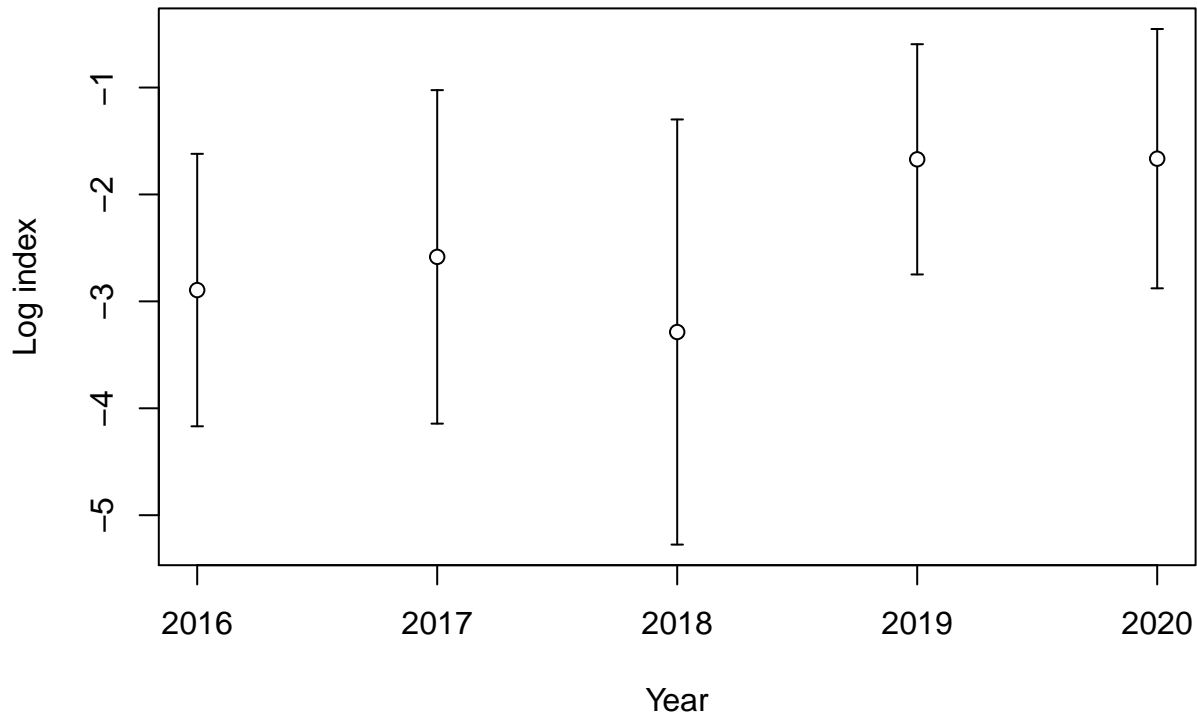
Year

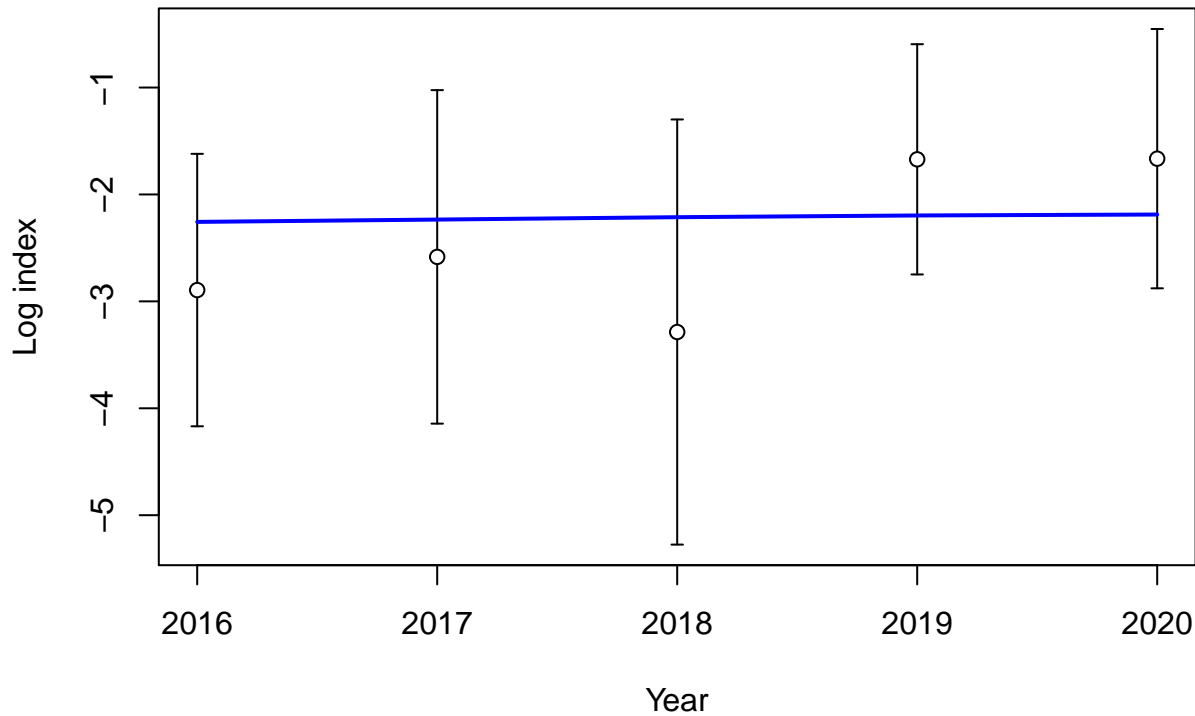
Index

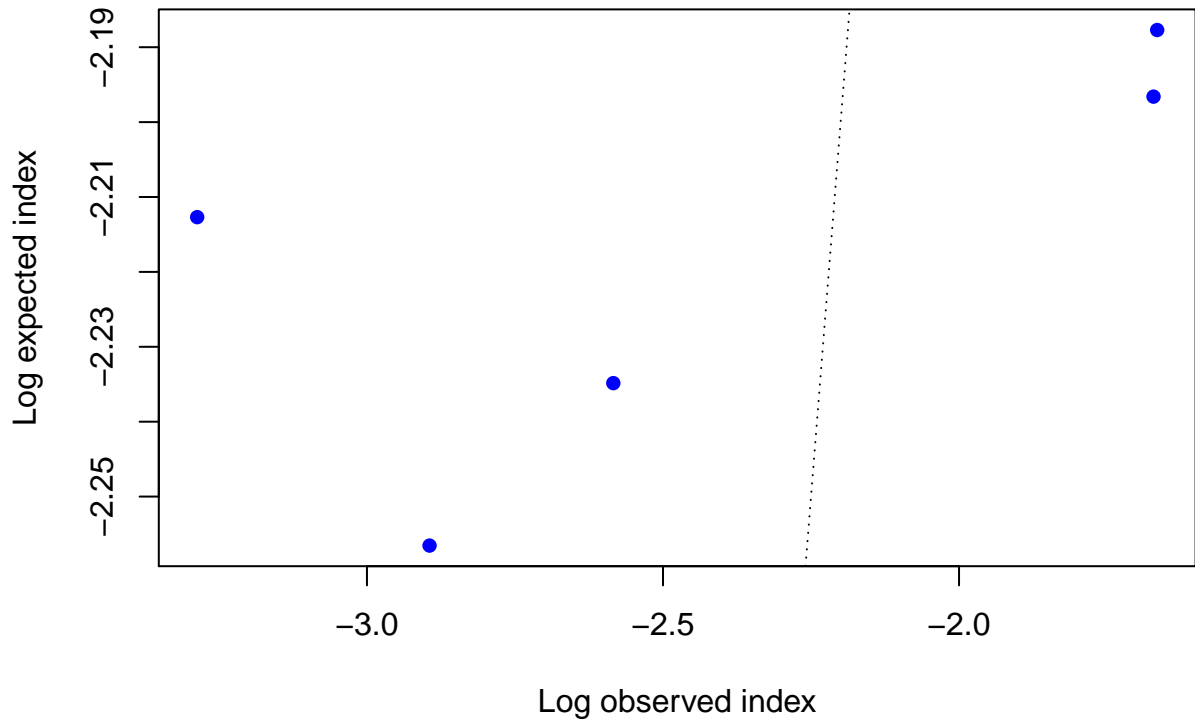


Year

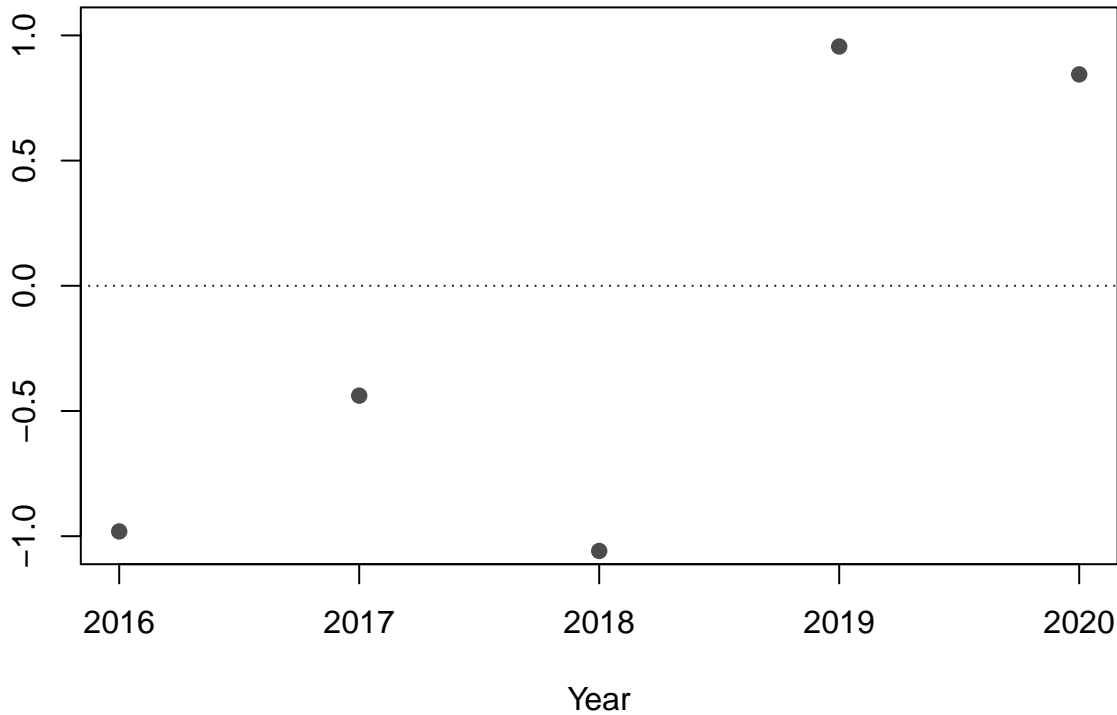






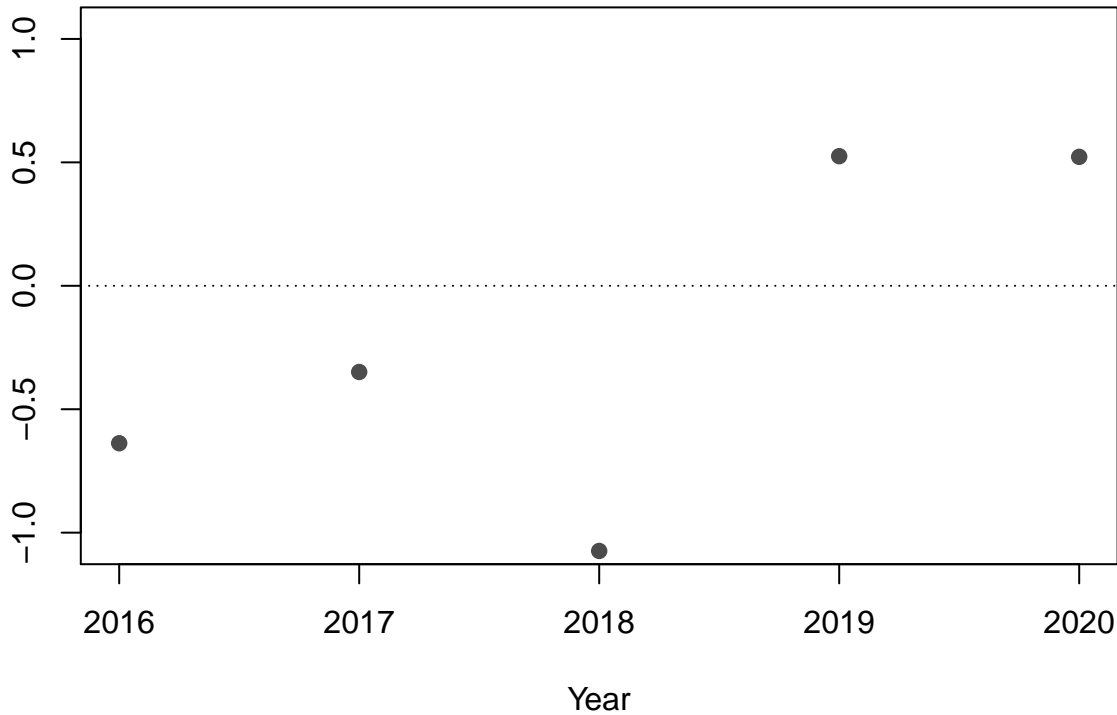


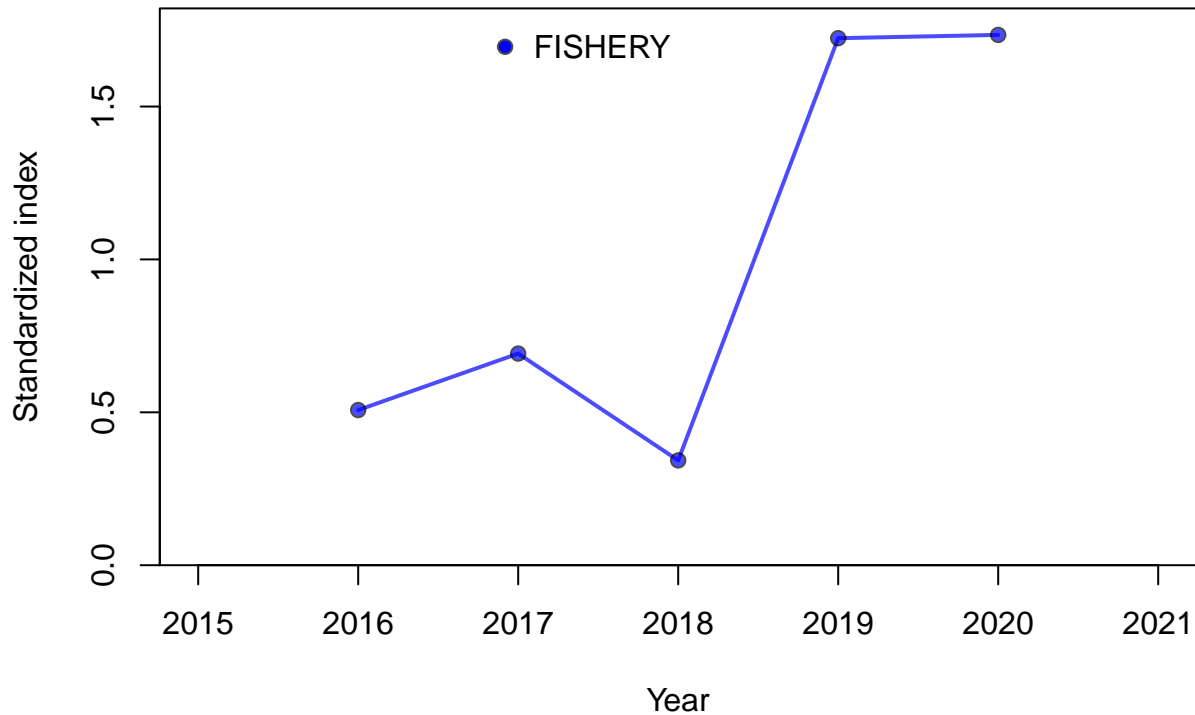
Residual

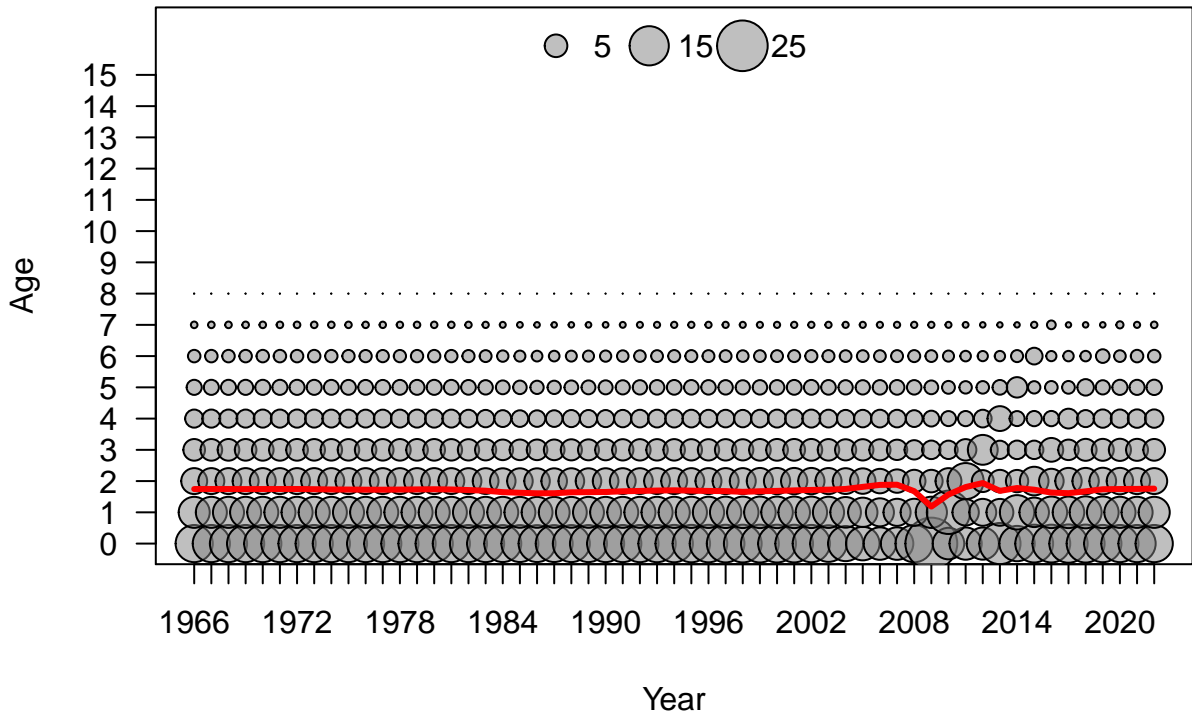


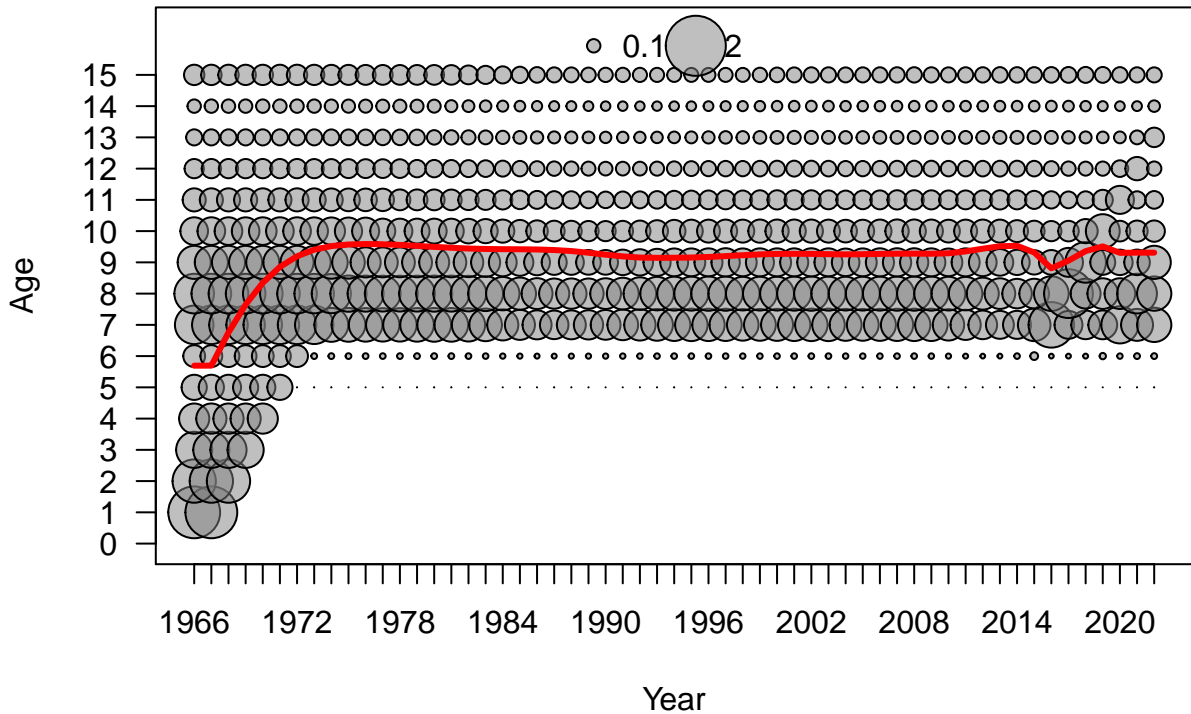


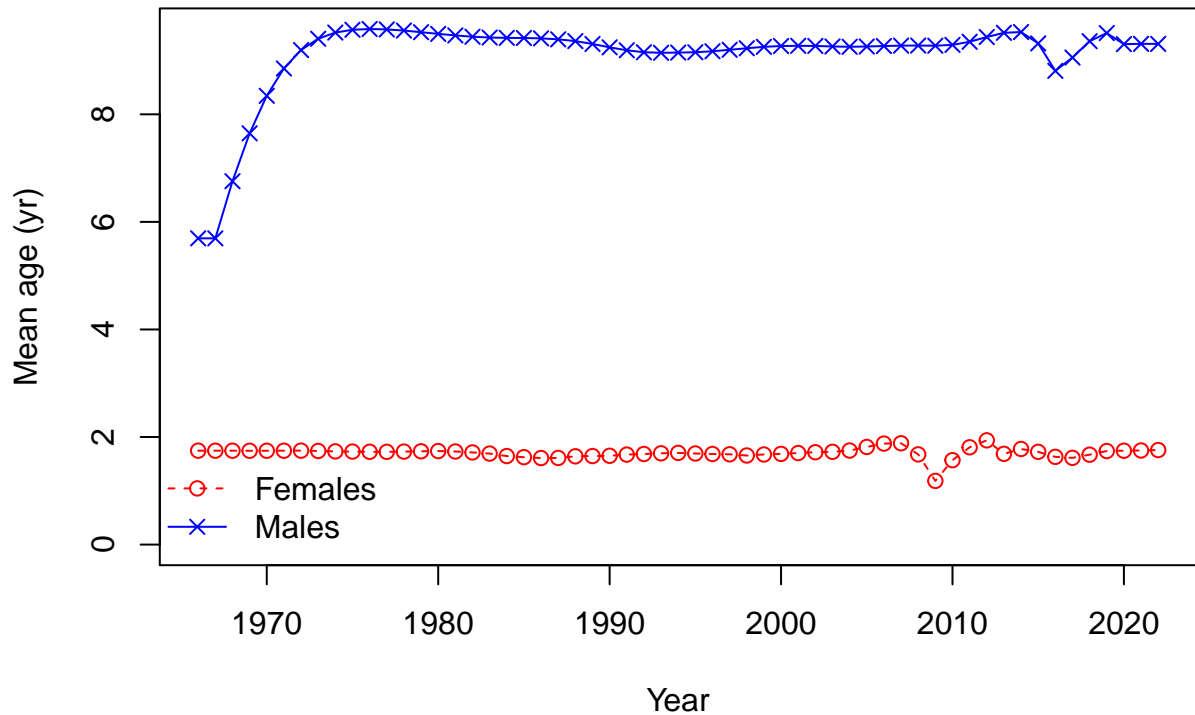
Deviation

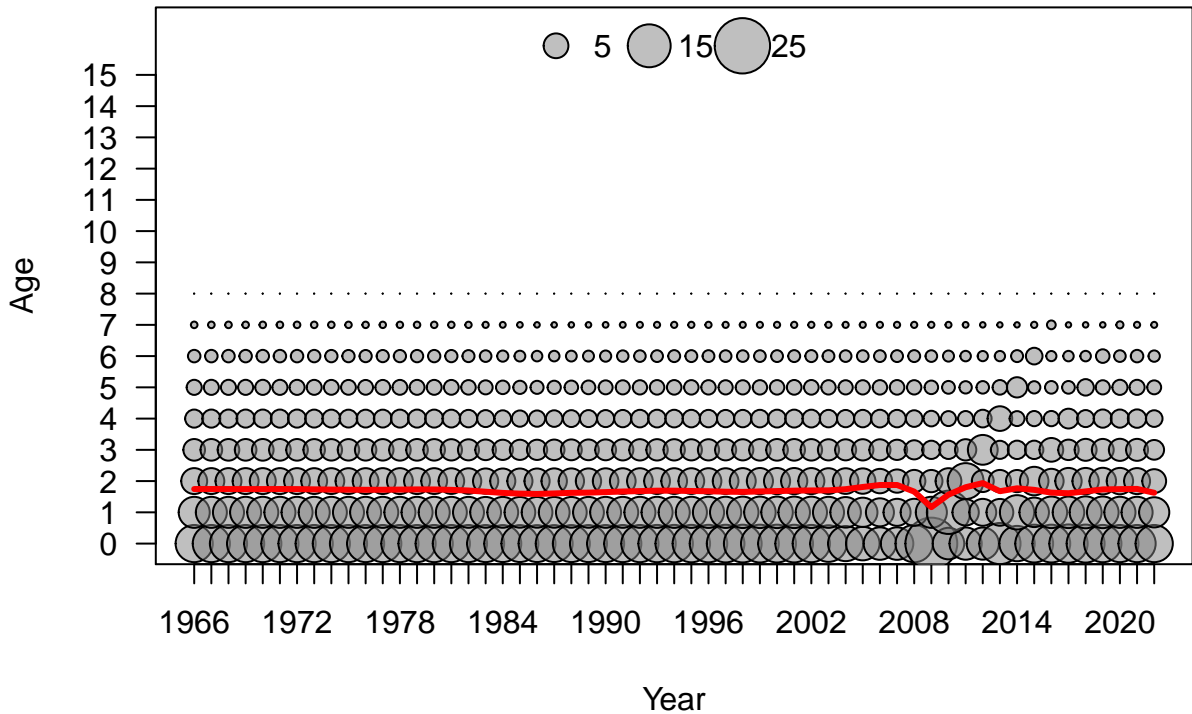


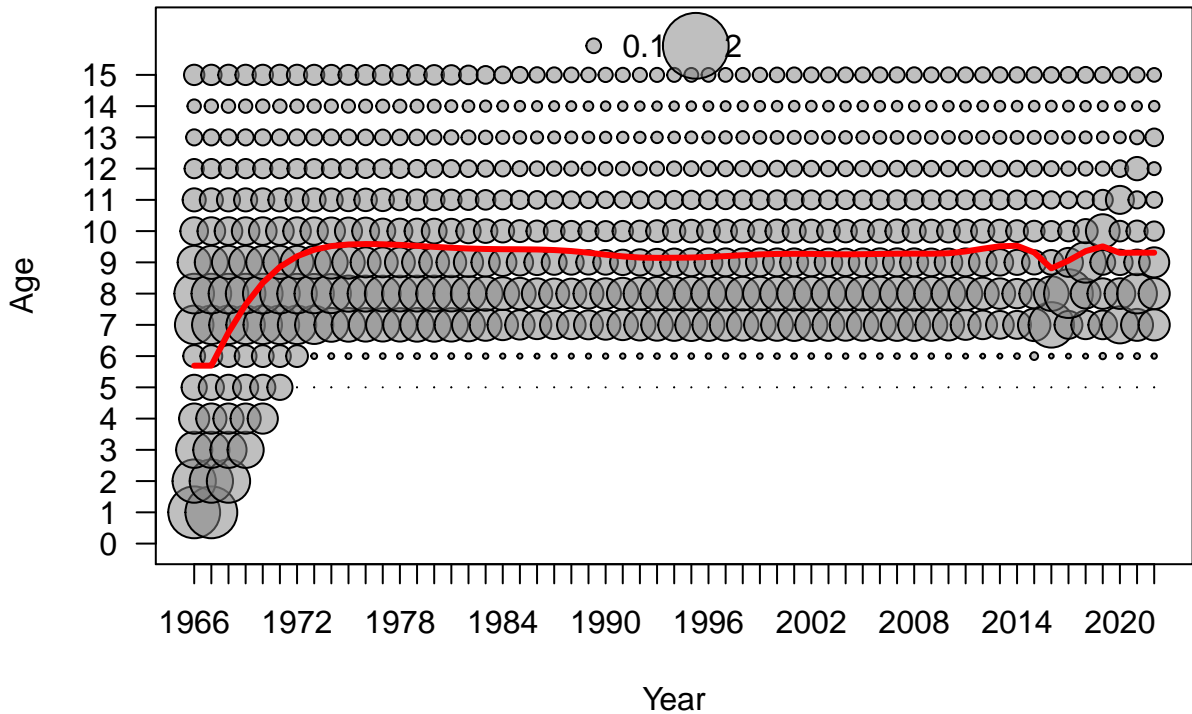


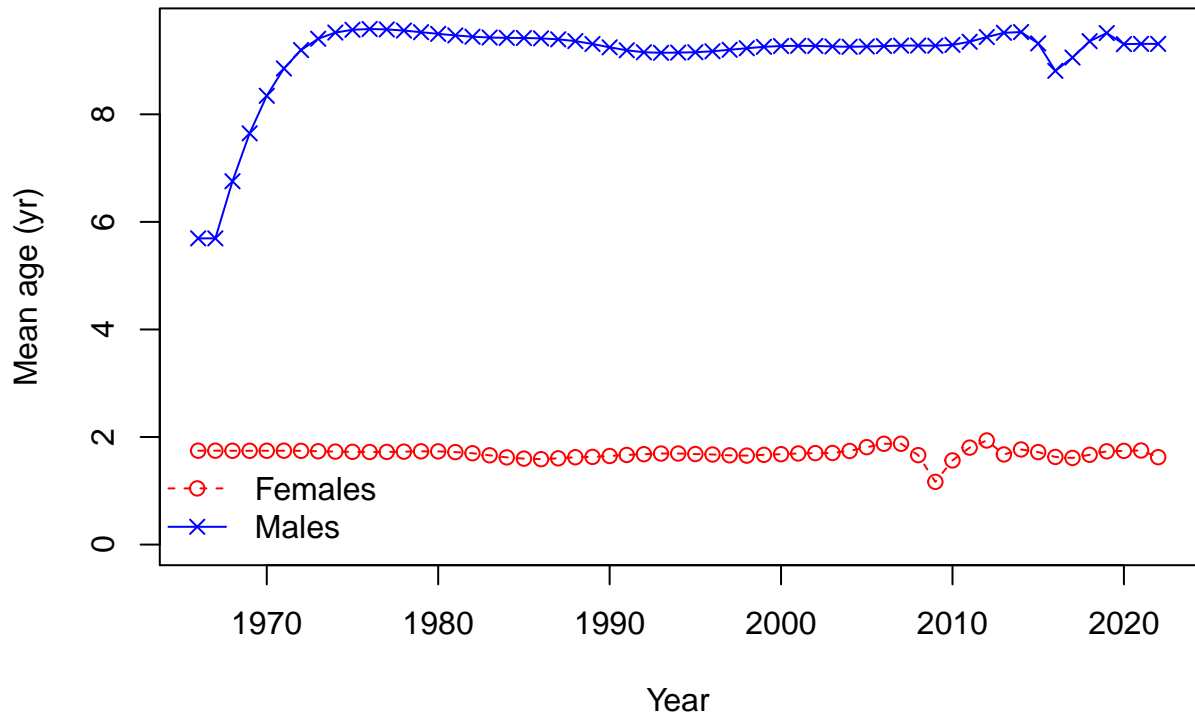






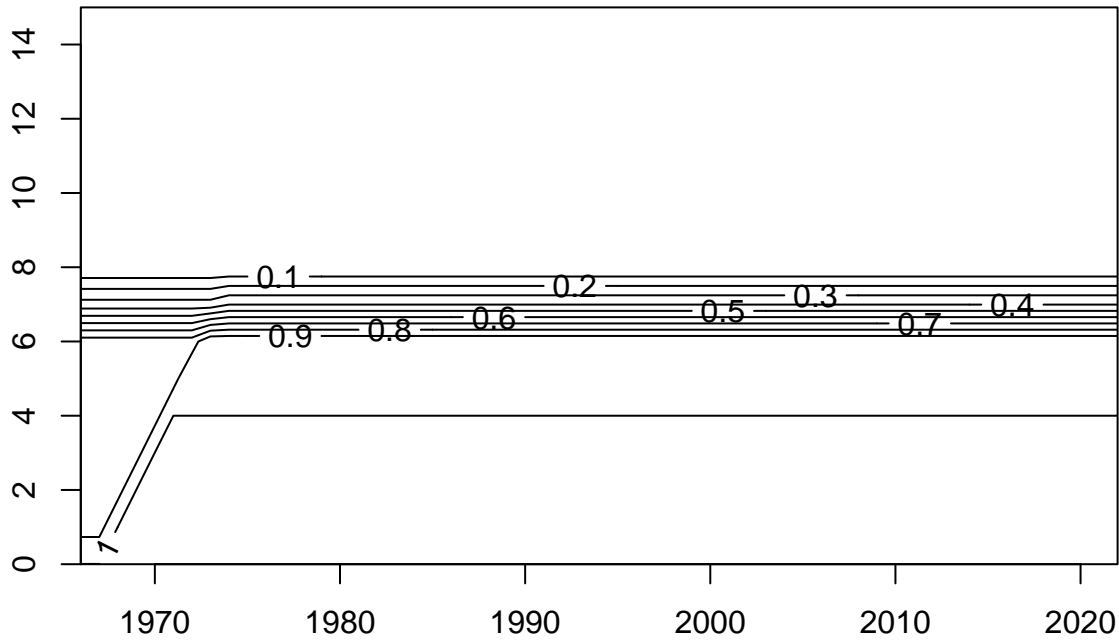




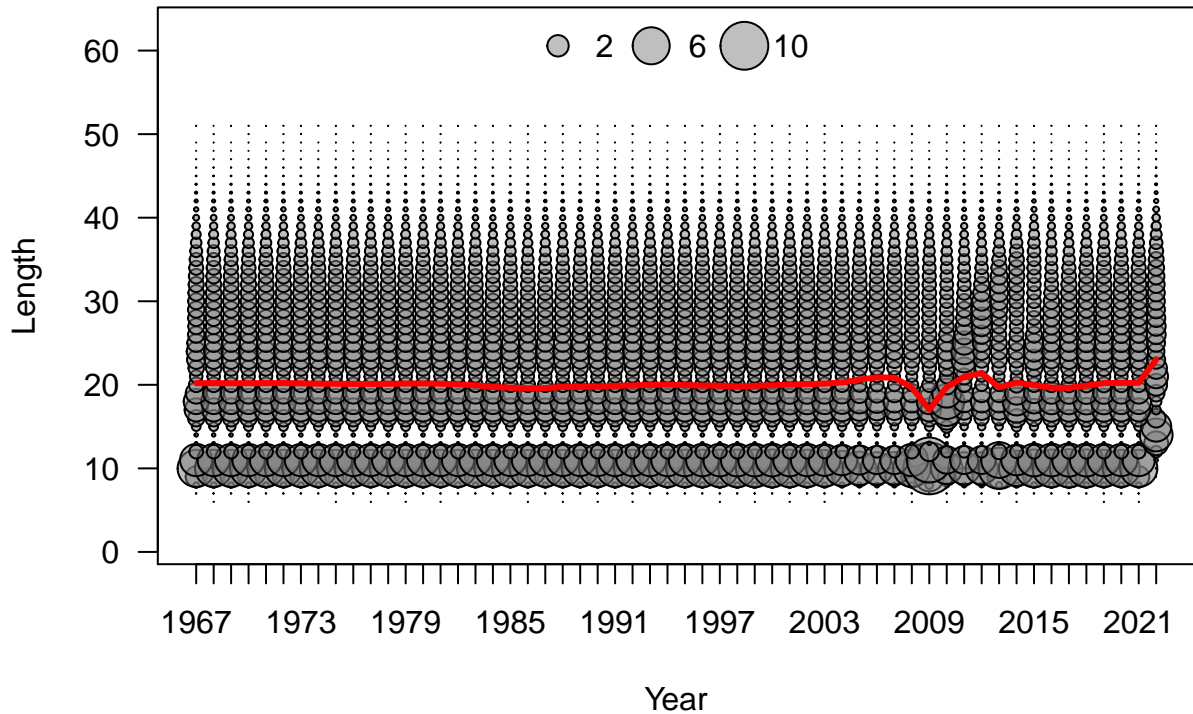


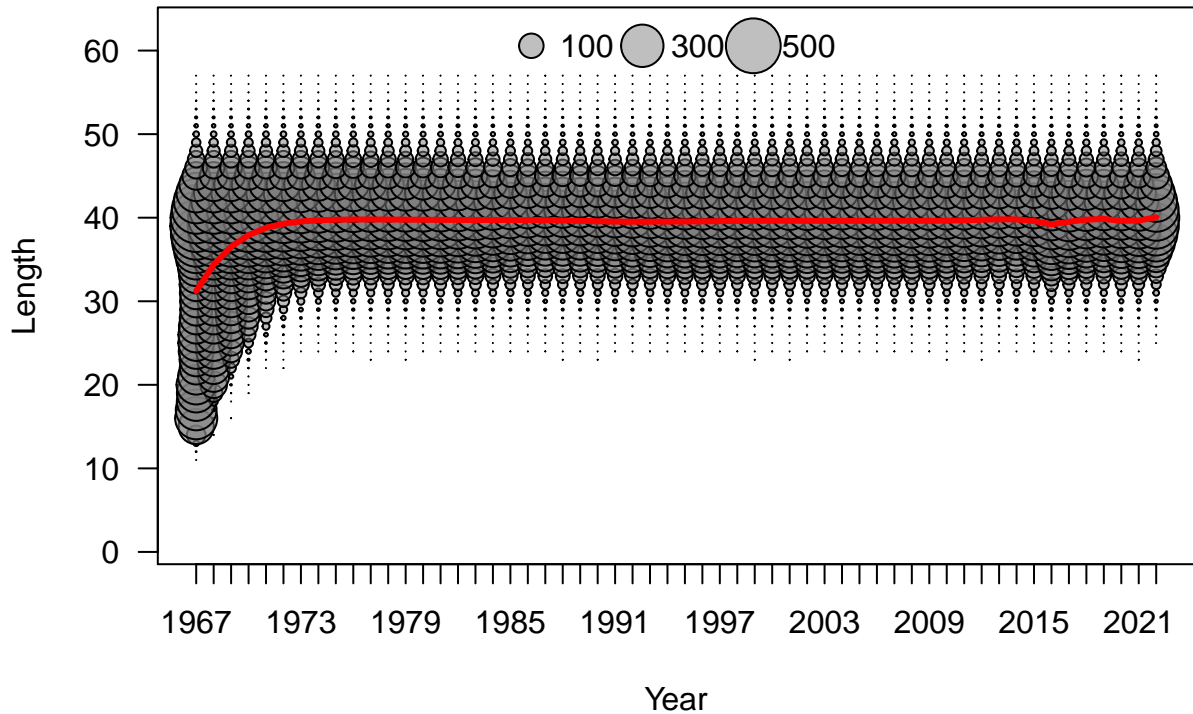


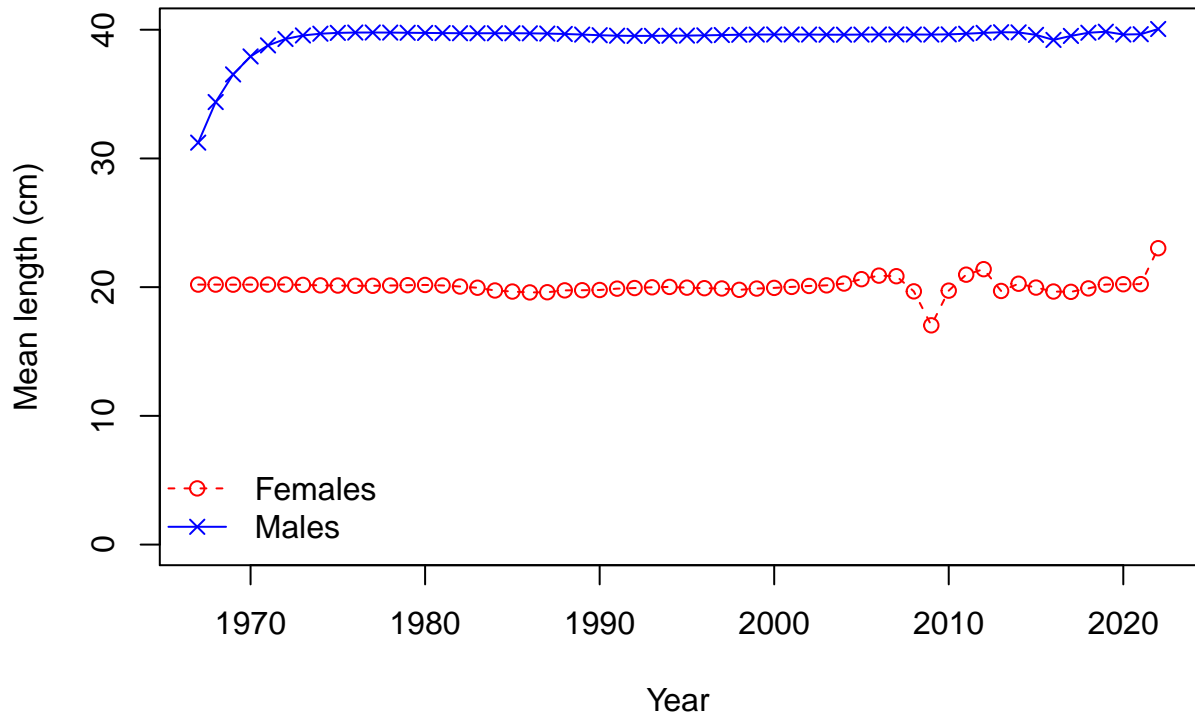
Age

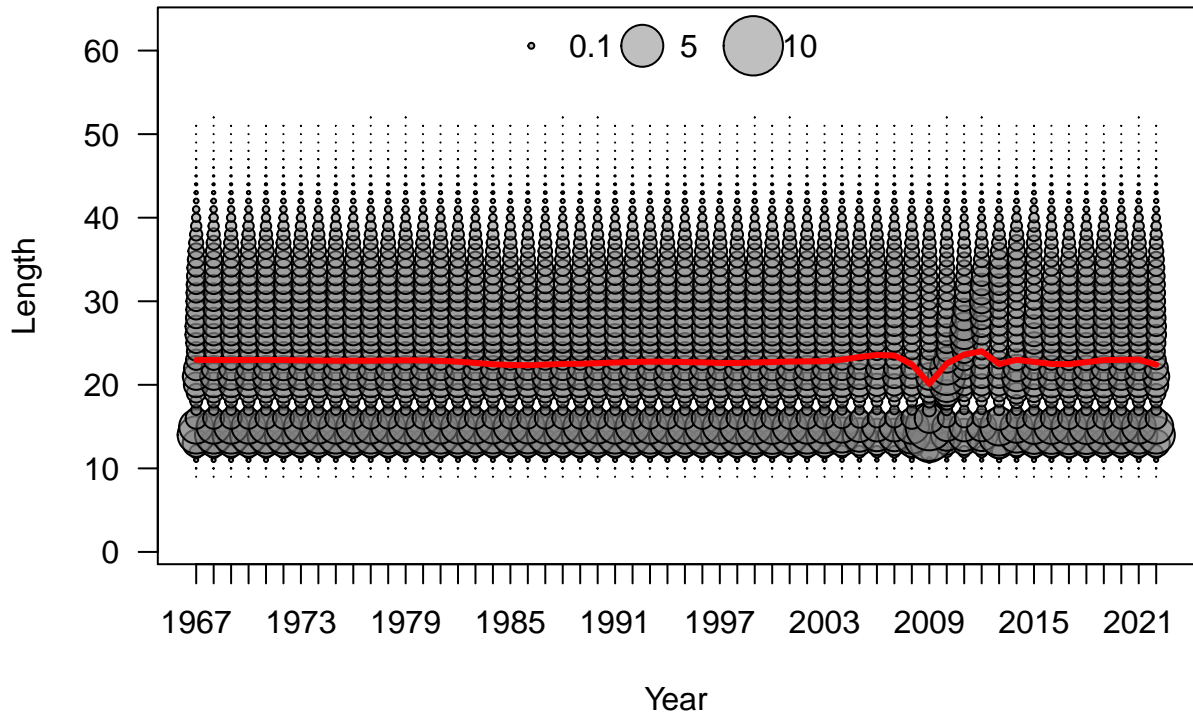


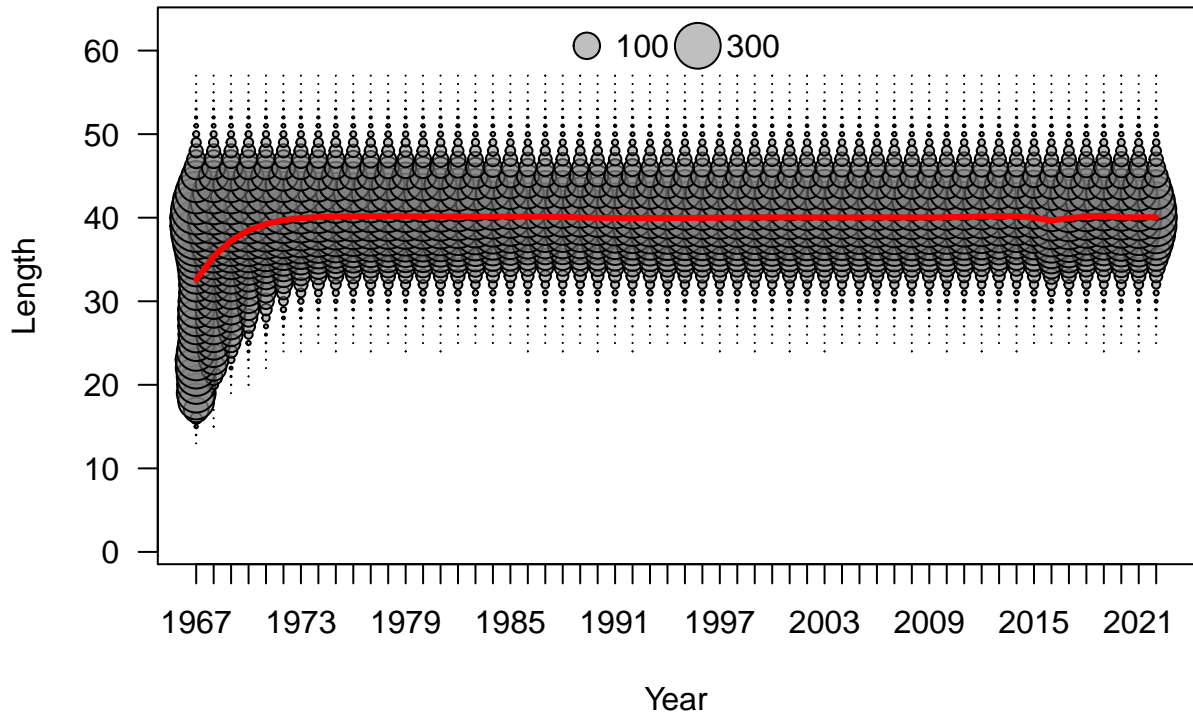
Year

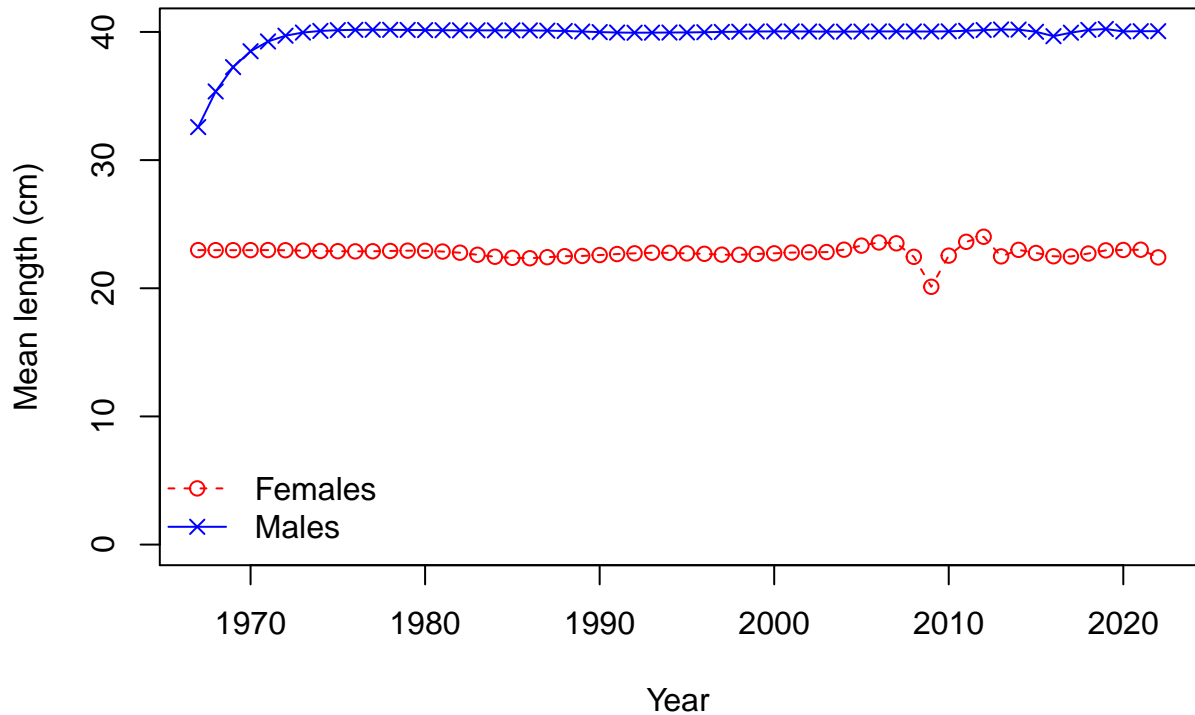


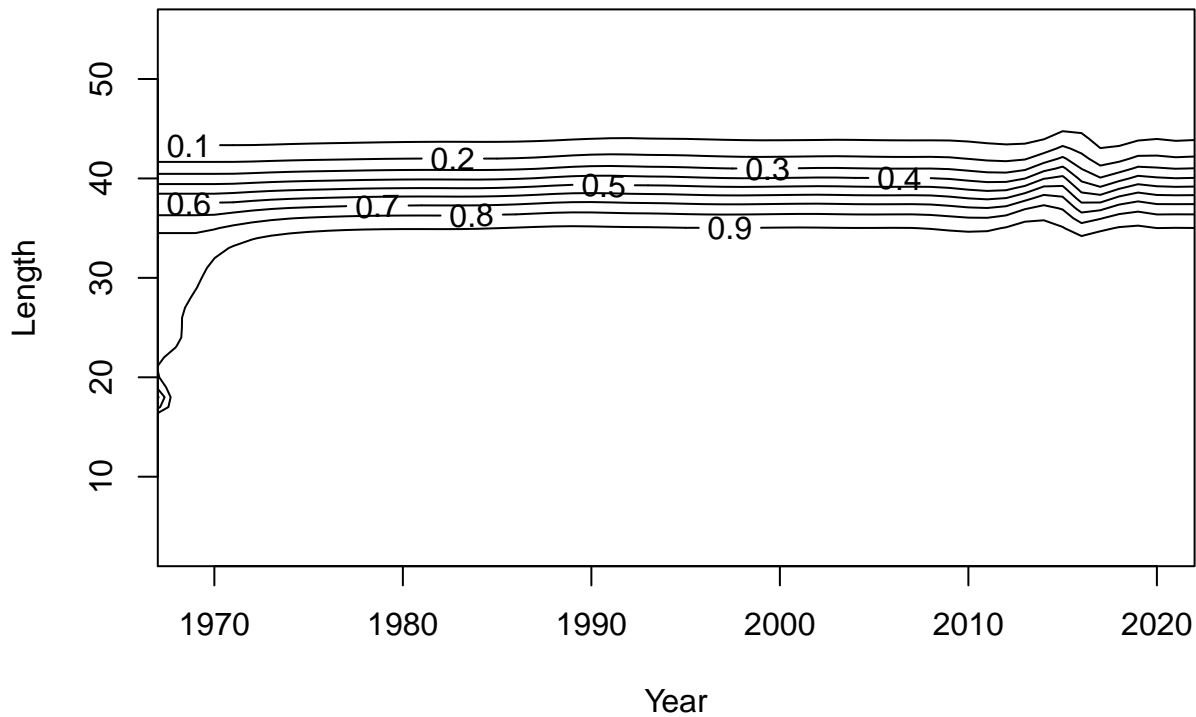




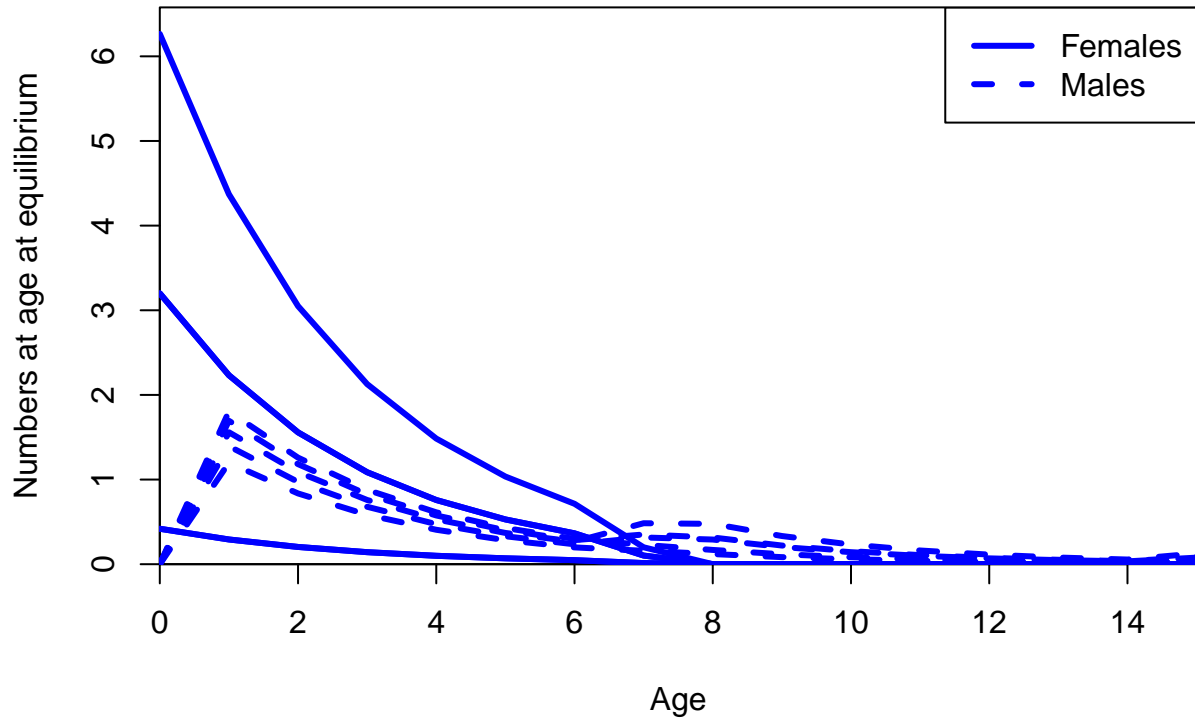


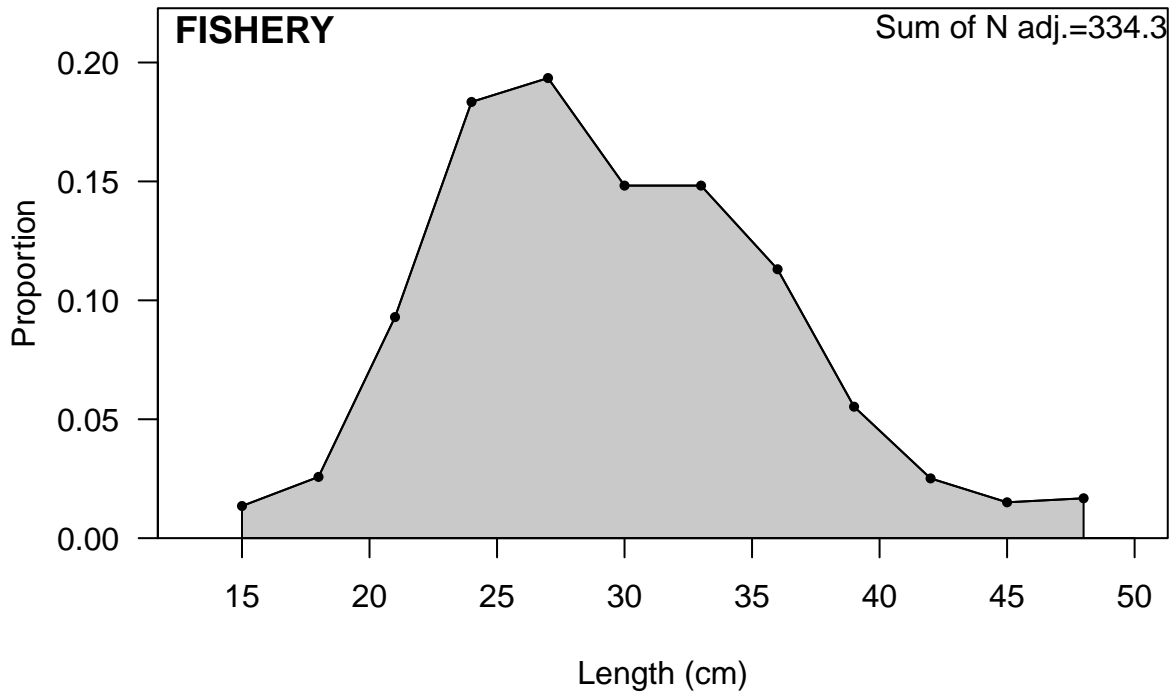


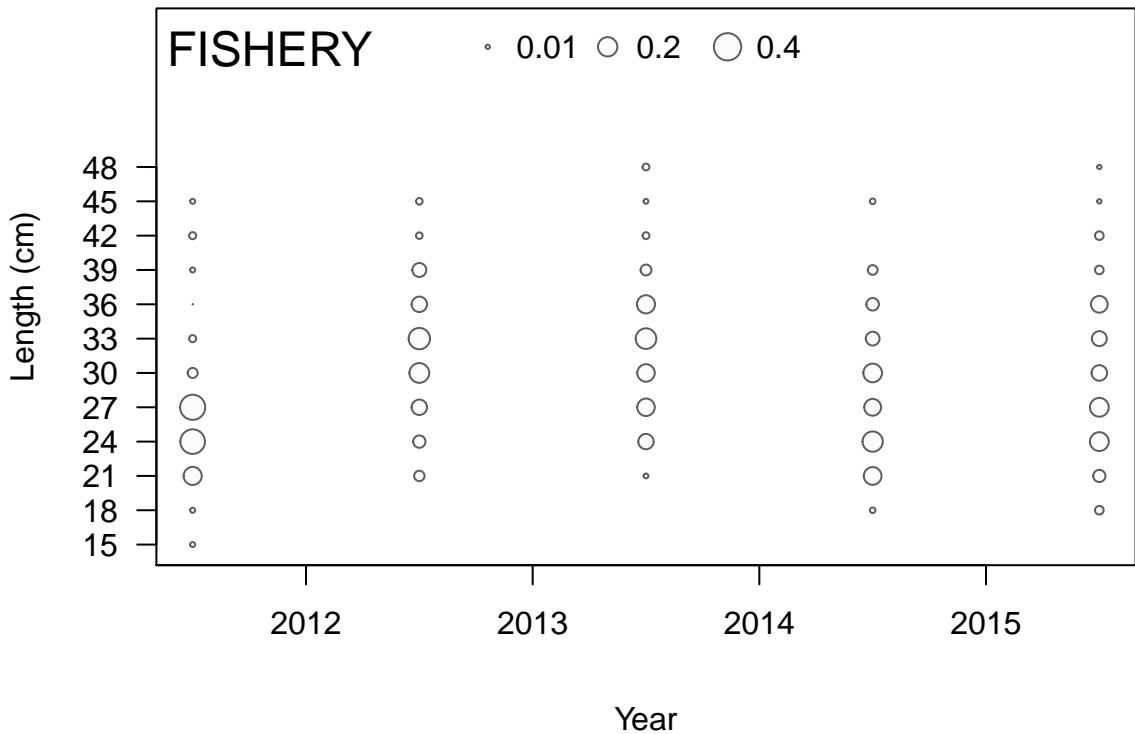




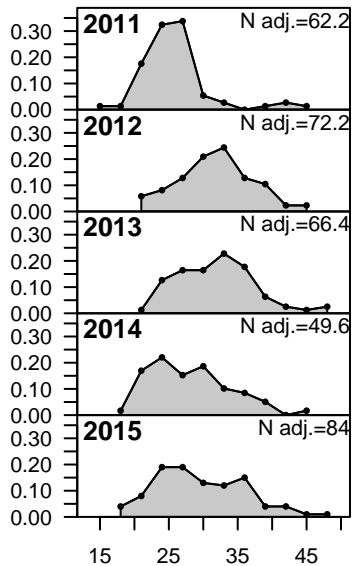




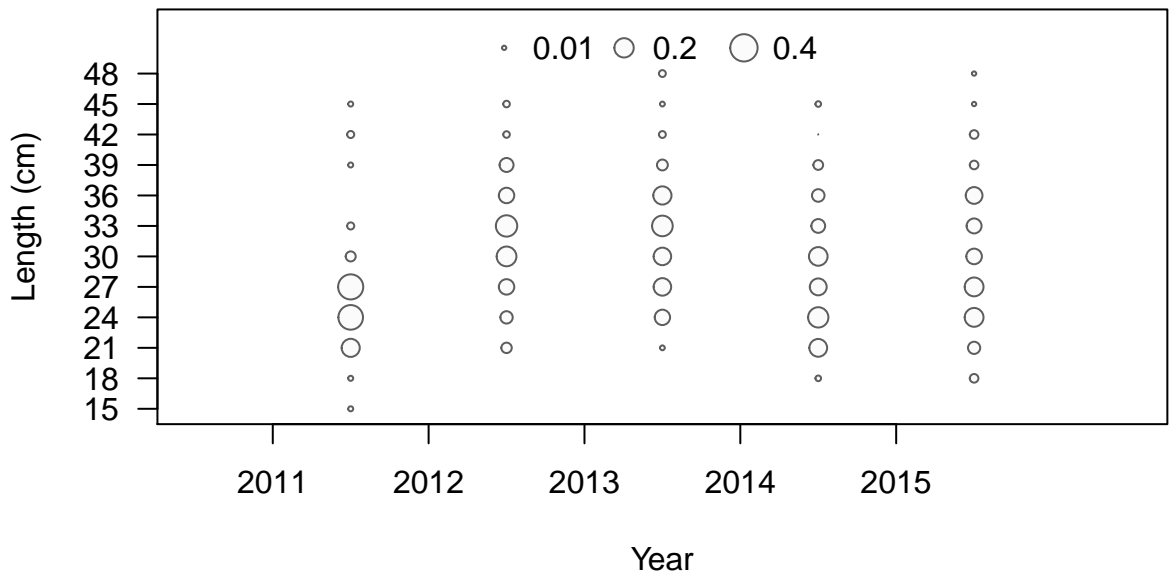




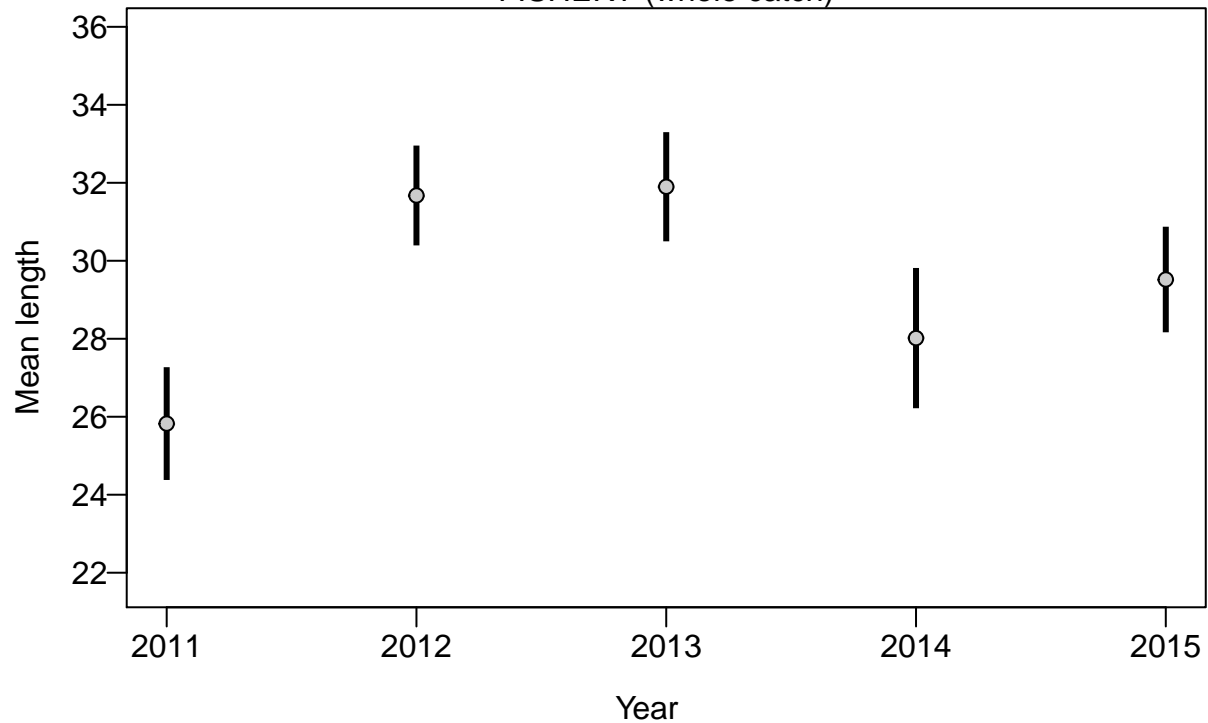
Proportion

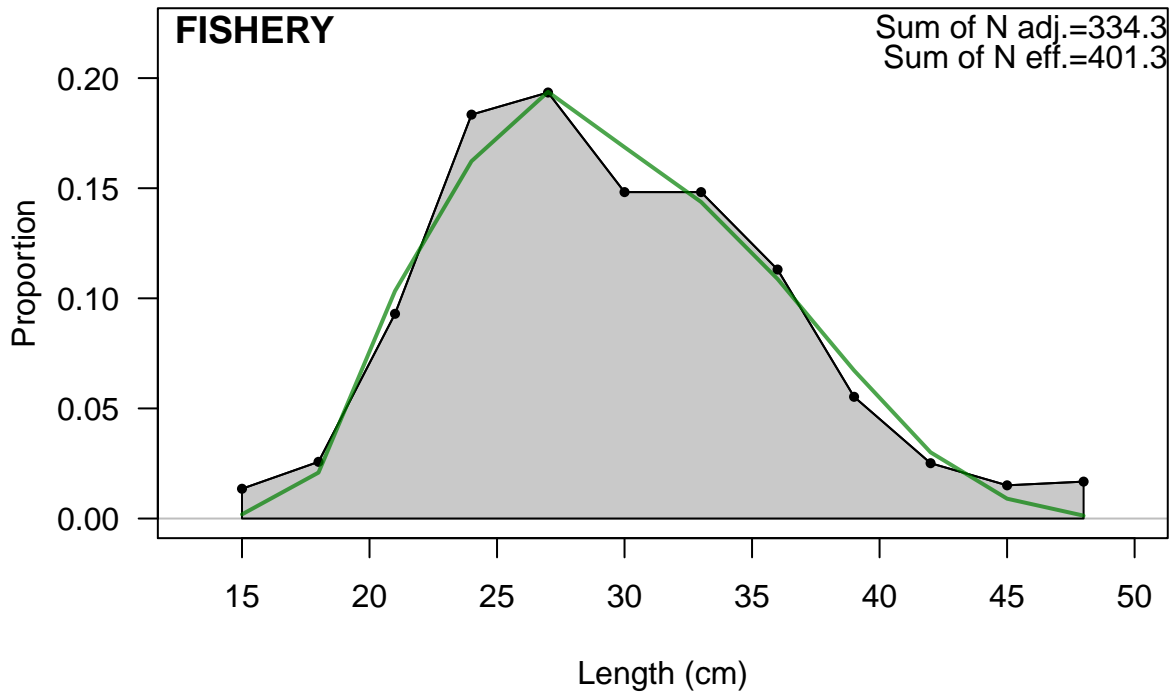


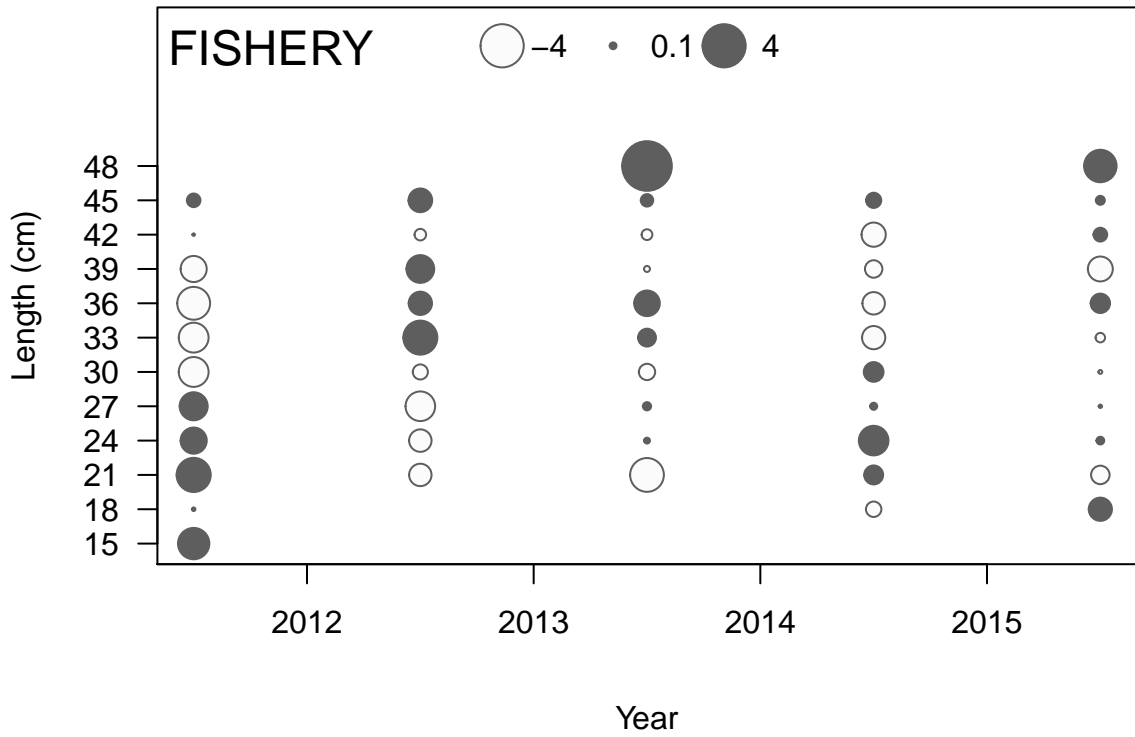
Length (cm)



FISHERY (whole catch)

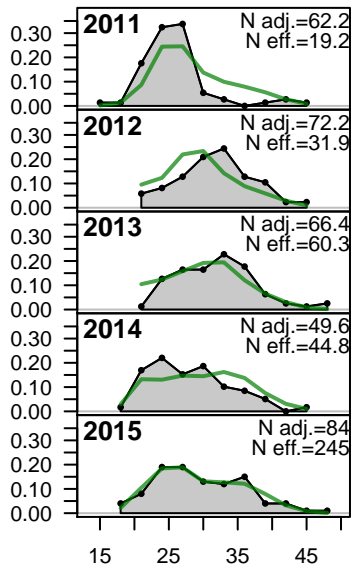






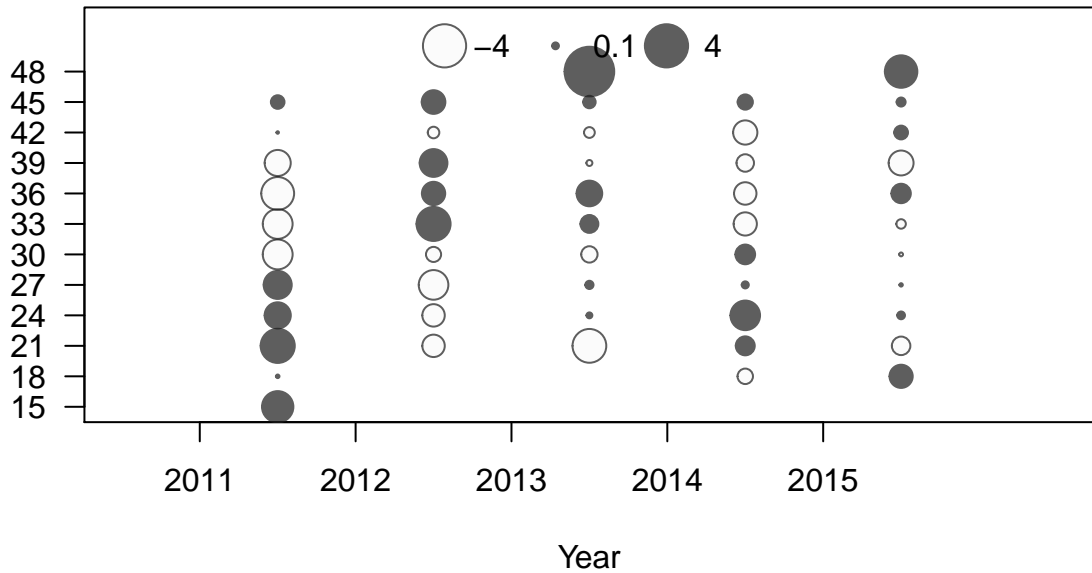


Proportion

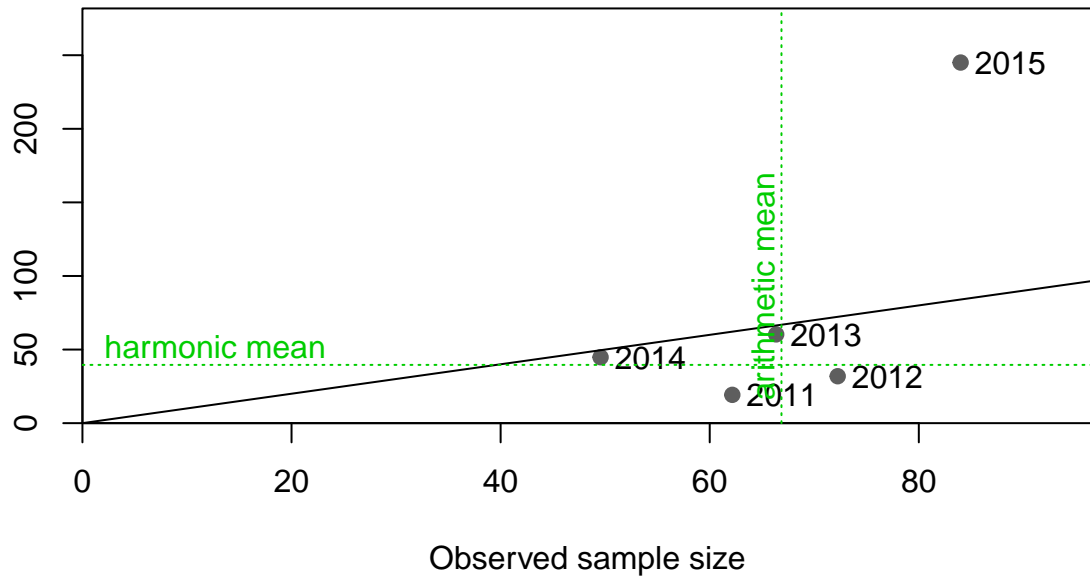


Length (cm)

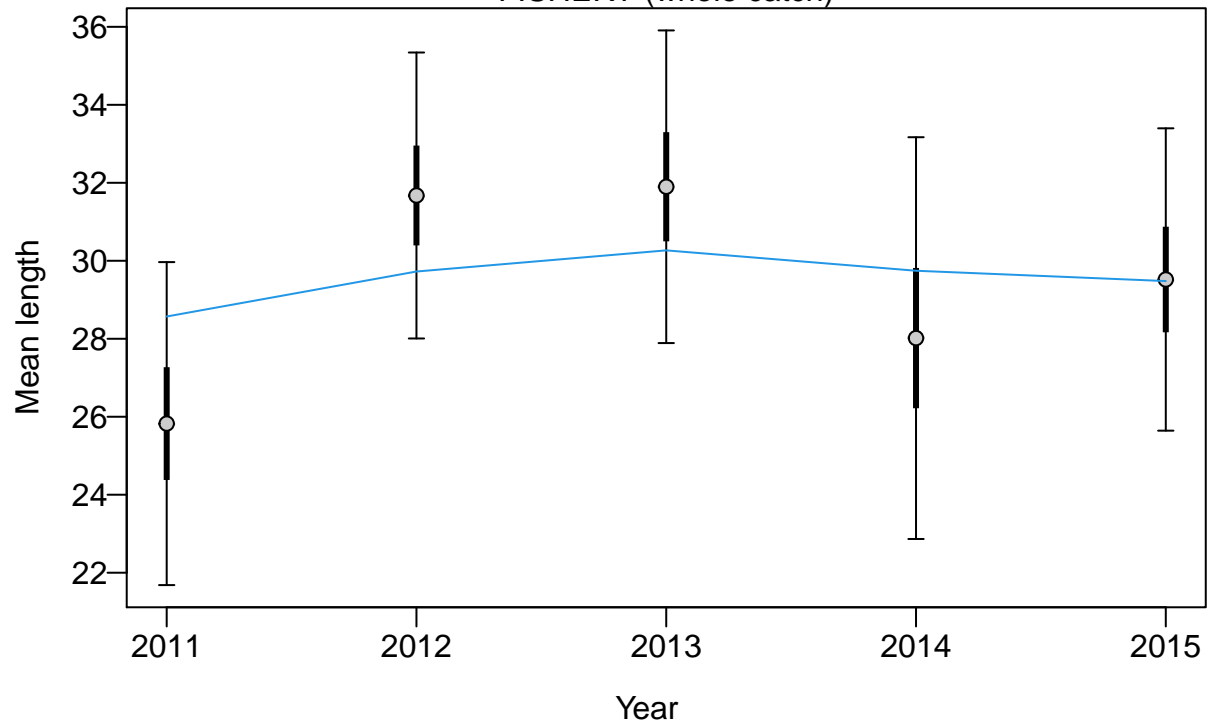
Length (cm)

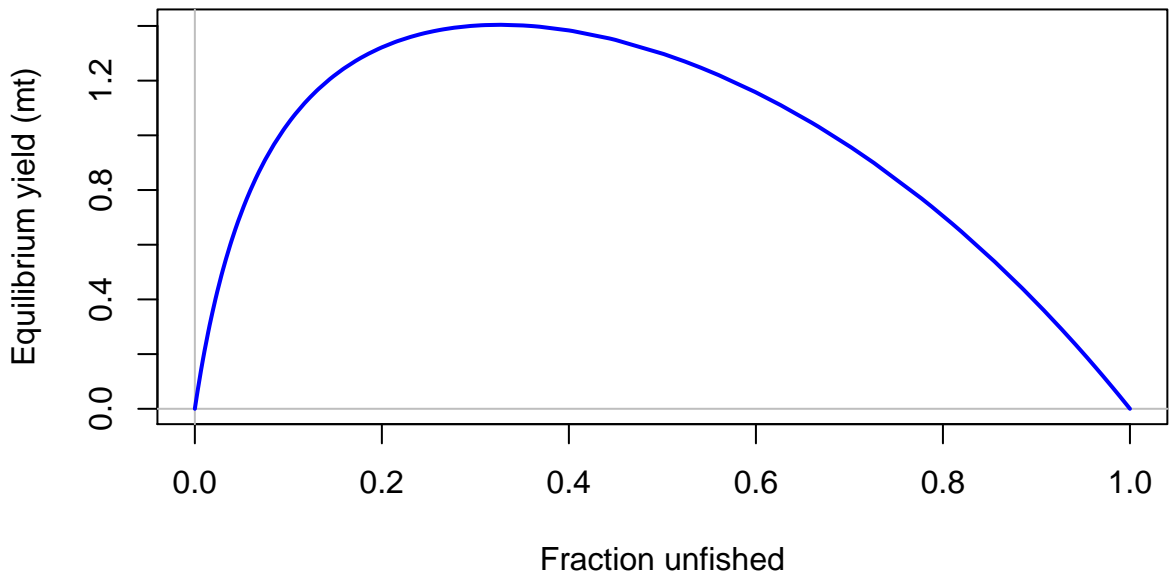


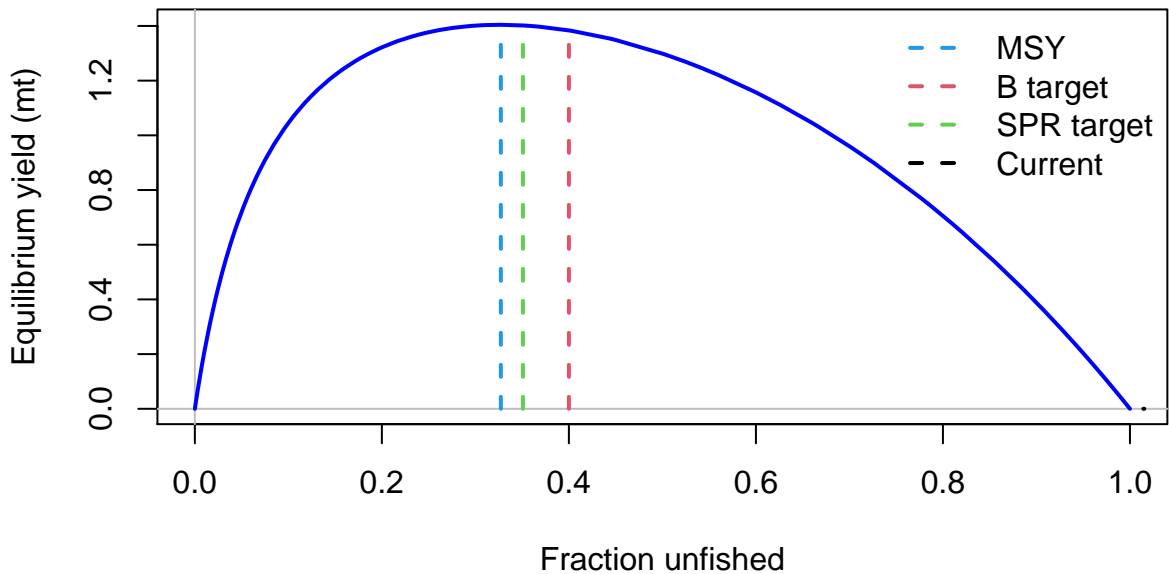
Effective sample size

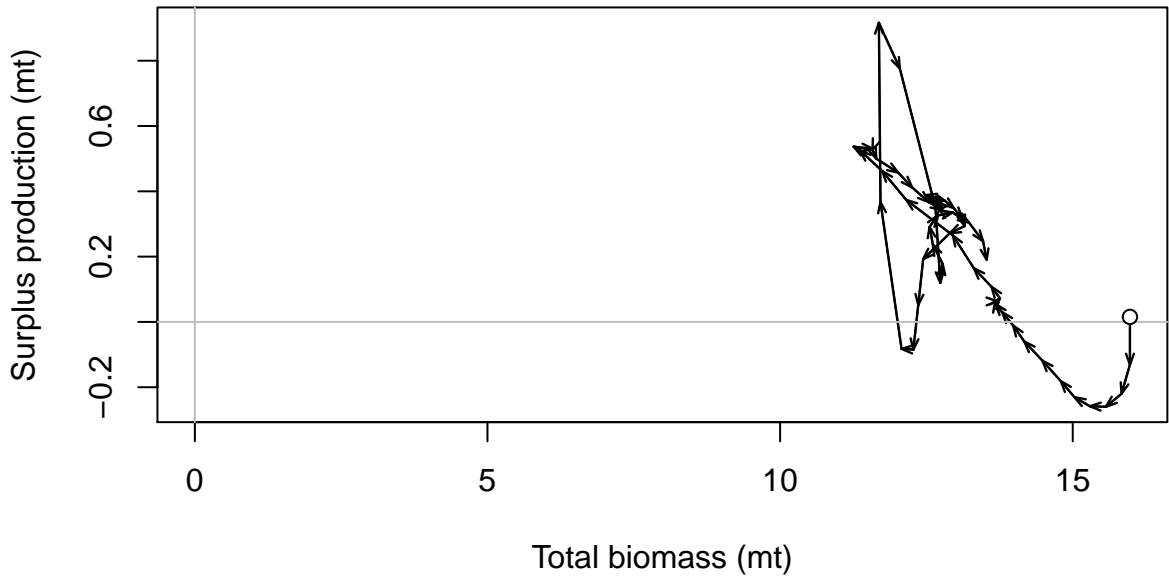


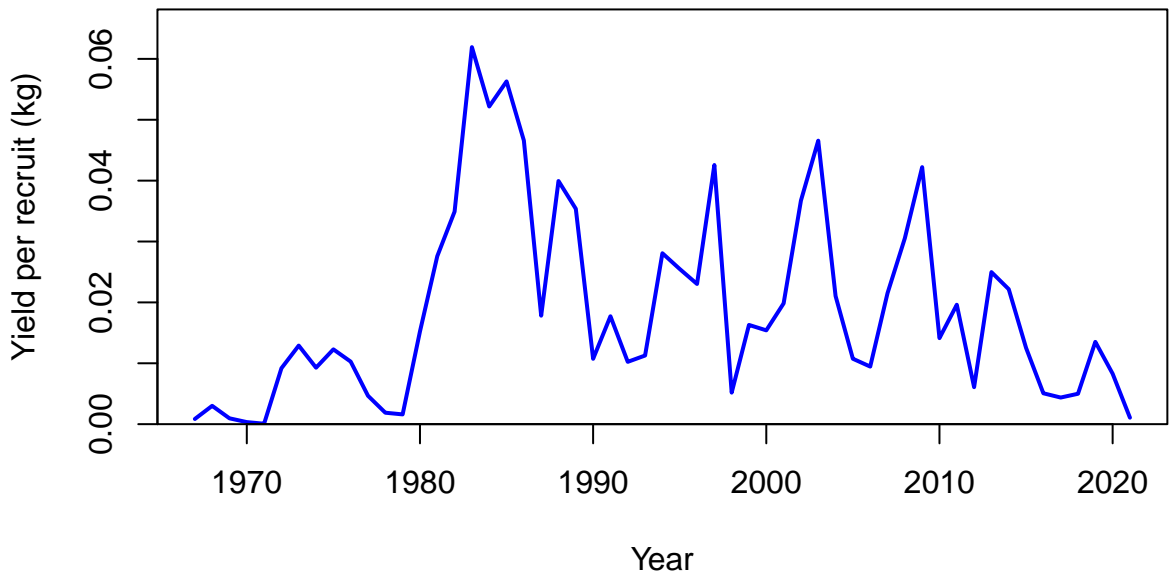
FISHERY (whole catch)



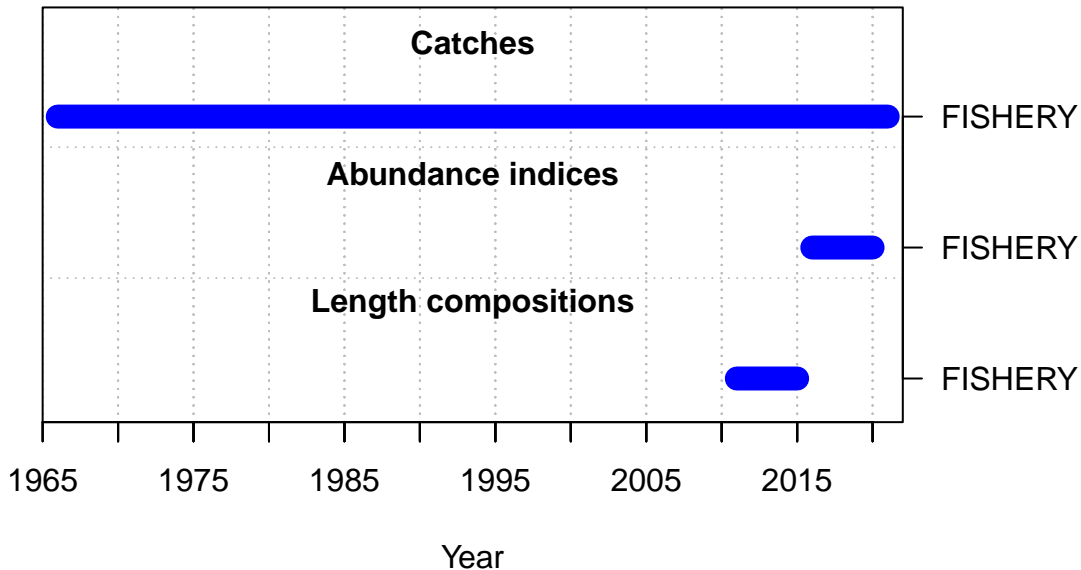


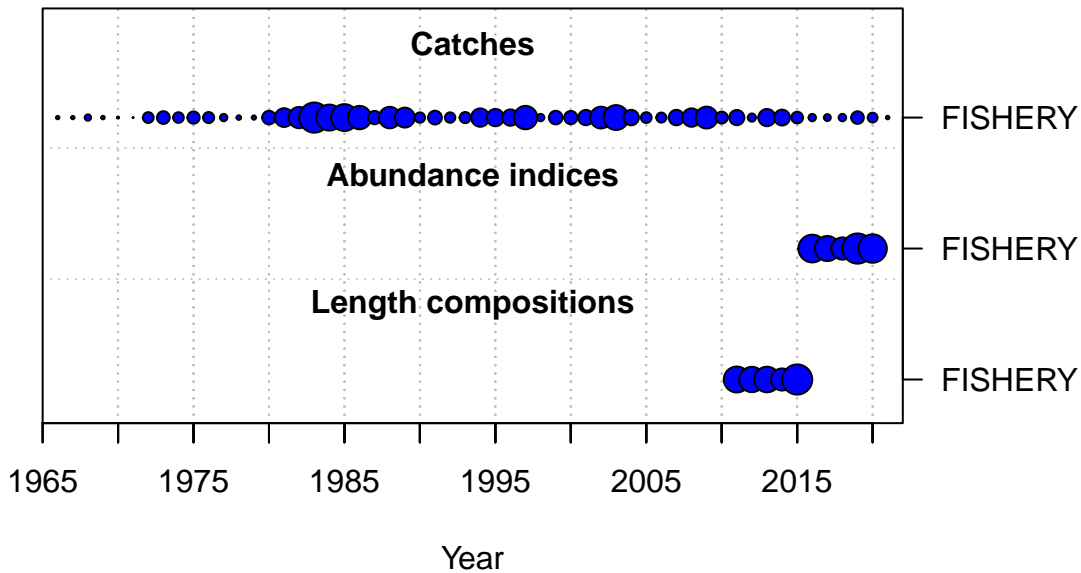




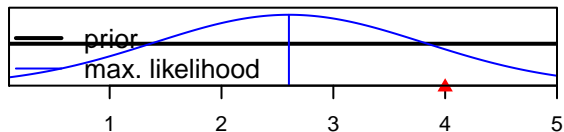




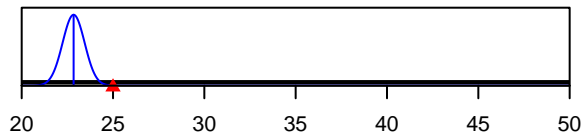




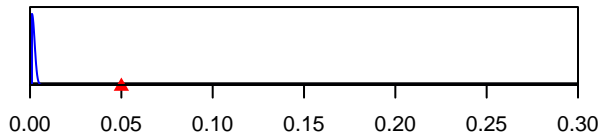
SR\_LN(R0)



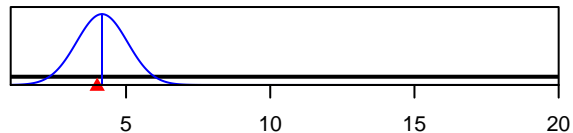
Size\_inflection\_FISHERY(1)



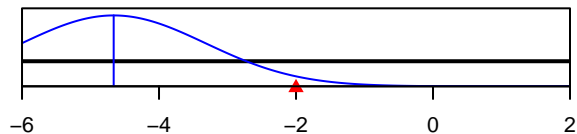
InitF\_seas\_1\_flt\_1FISHERY



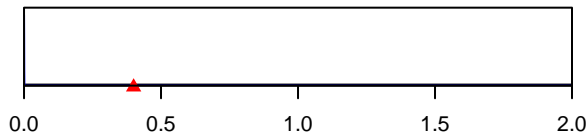
Size\_95%width\_FISHERY(1)



LnQ\_base\_FISHERY(1)



Q\_extraSD\_FISHERY(1)



Parameter value