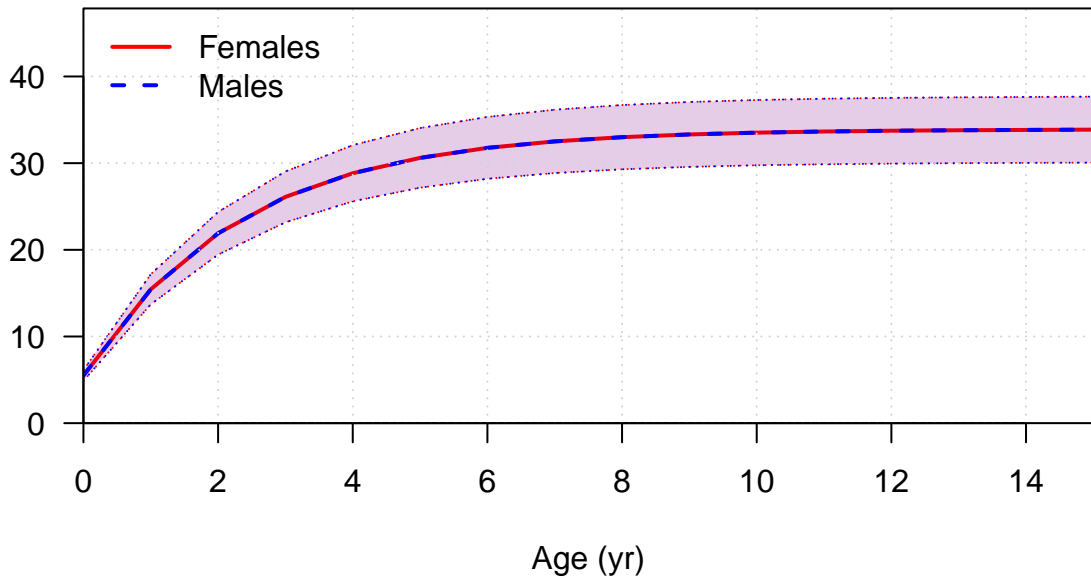
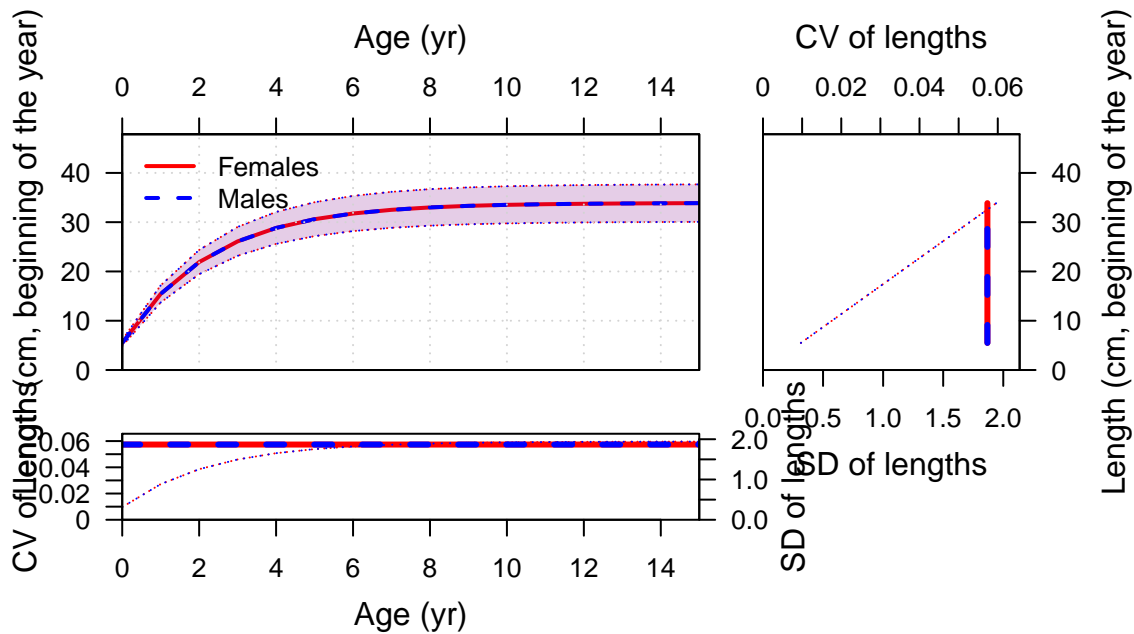
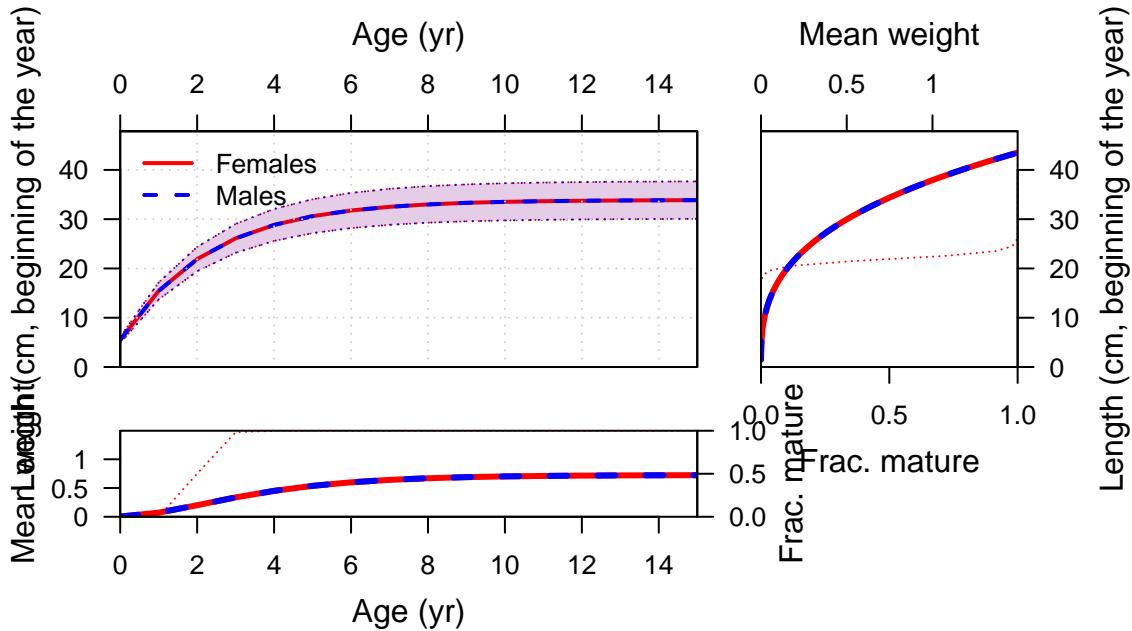


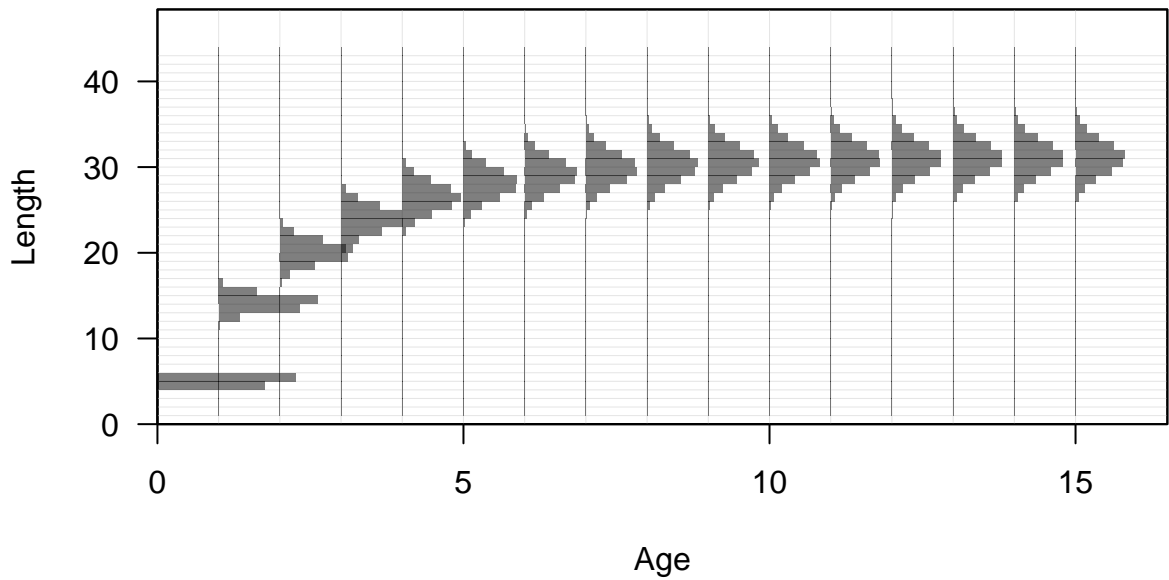
Plots created using the 'r4ss' package in R  
Stock Synthesis version: 3.30.19.0  
StartTime: Tue Jan 24 11:53:07 2023  
Data\_File: data.ss  
Control\_File: control.ss

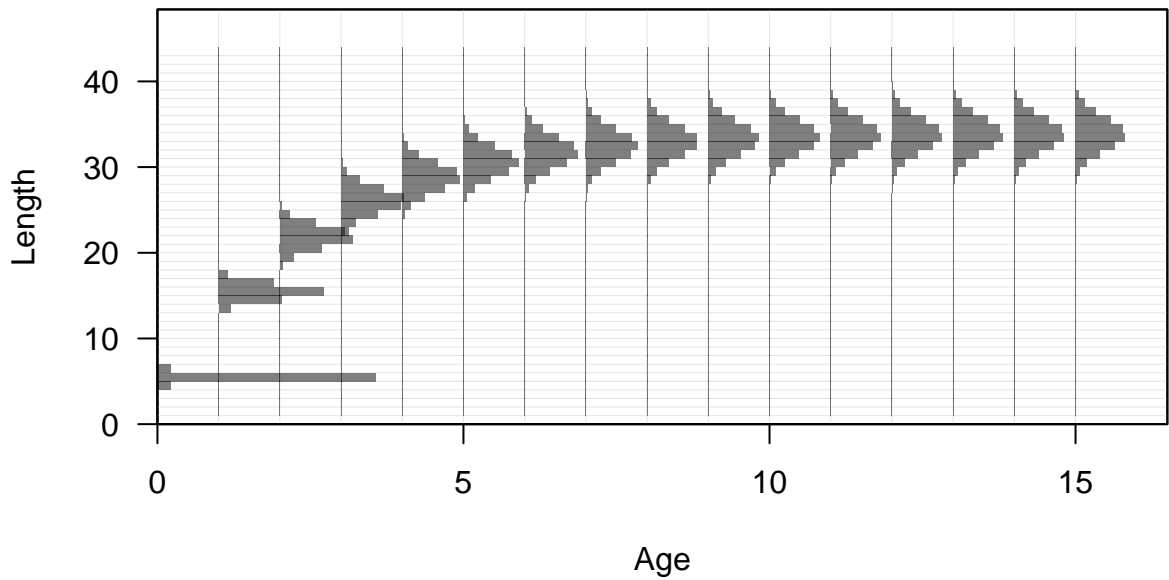
Length (cm, beginning of the year)

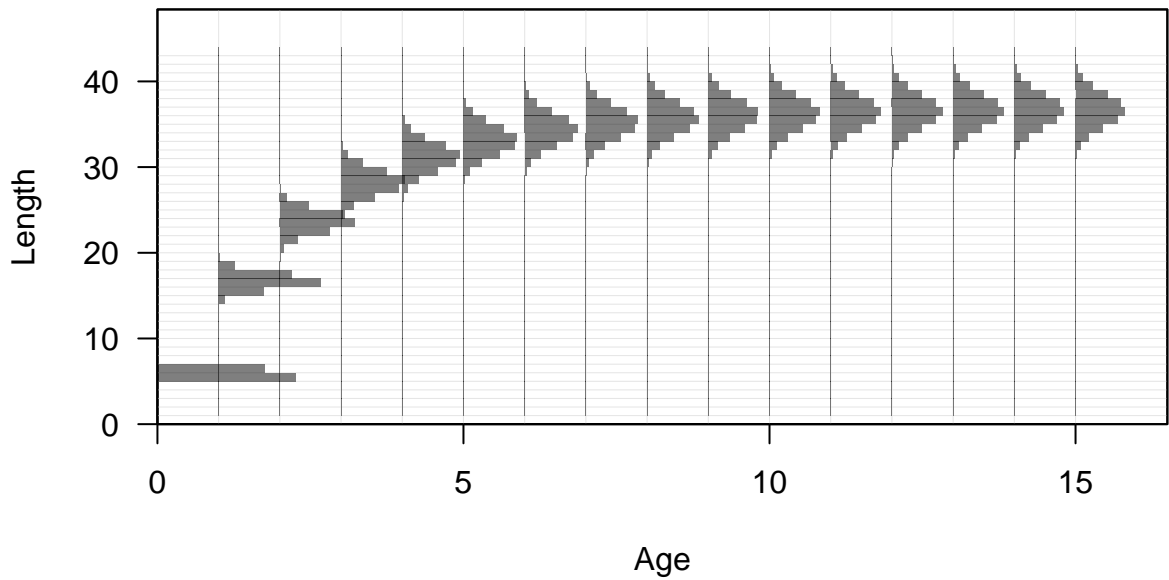


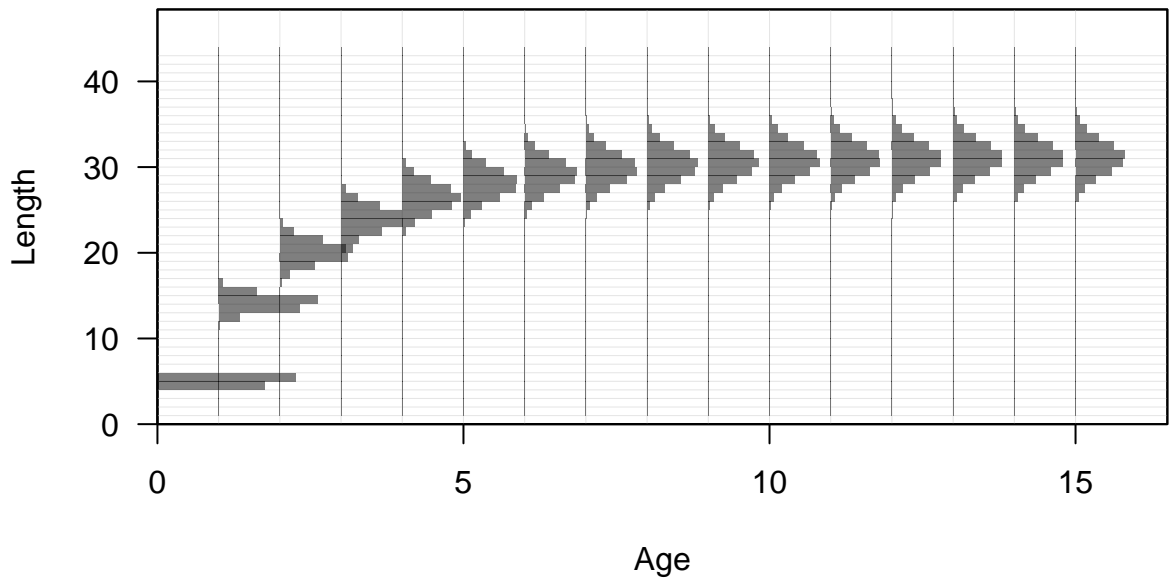




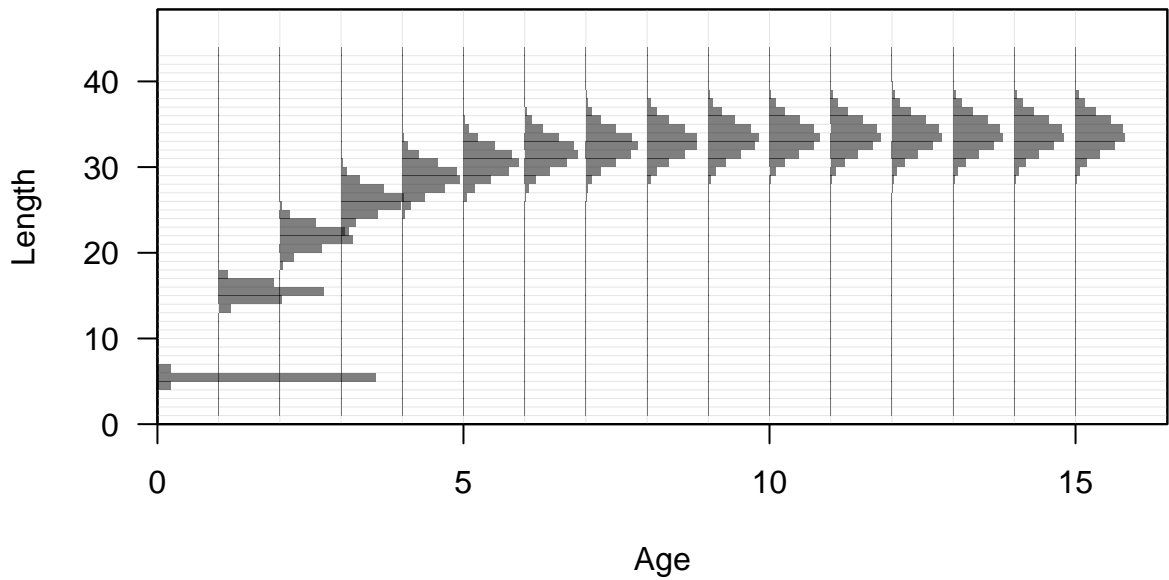


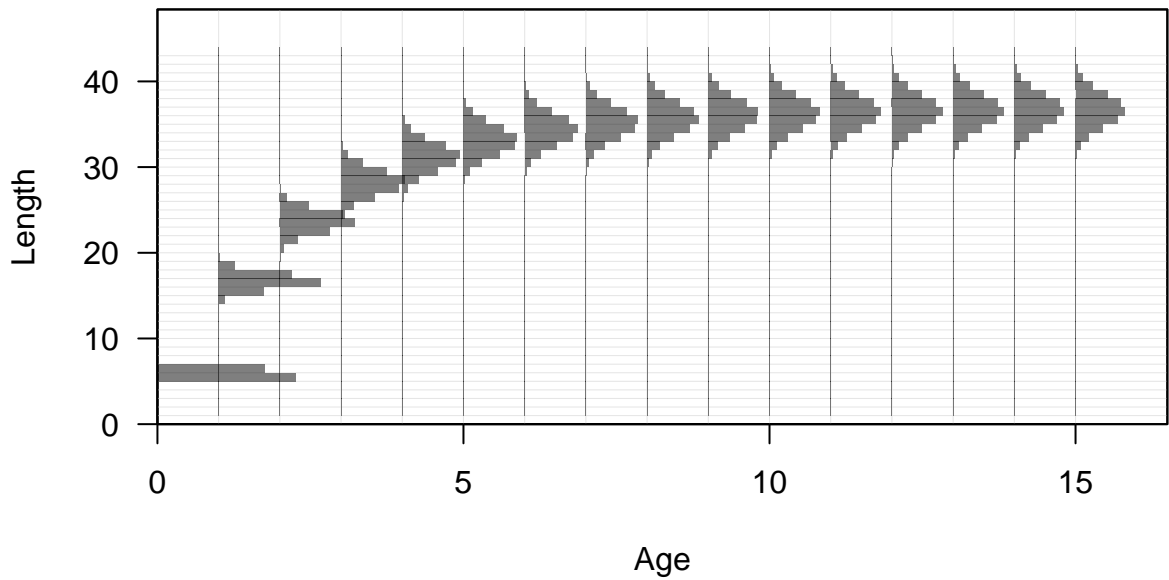


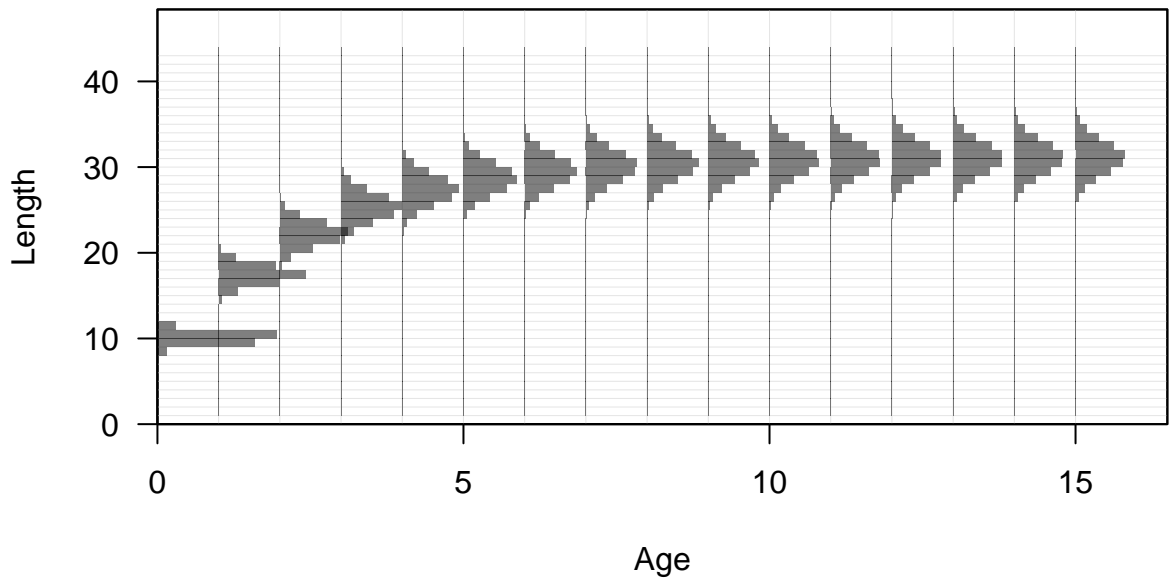


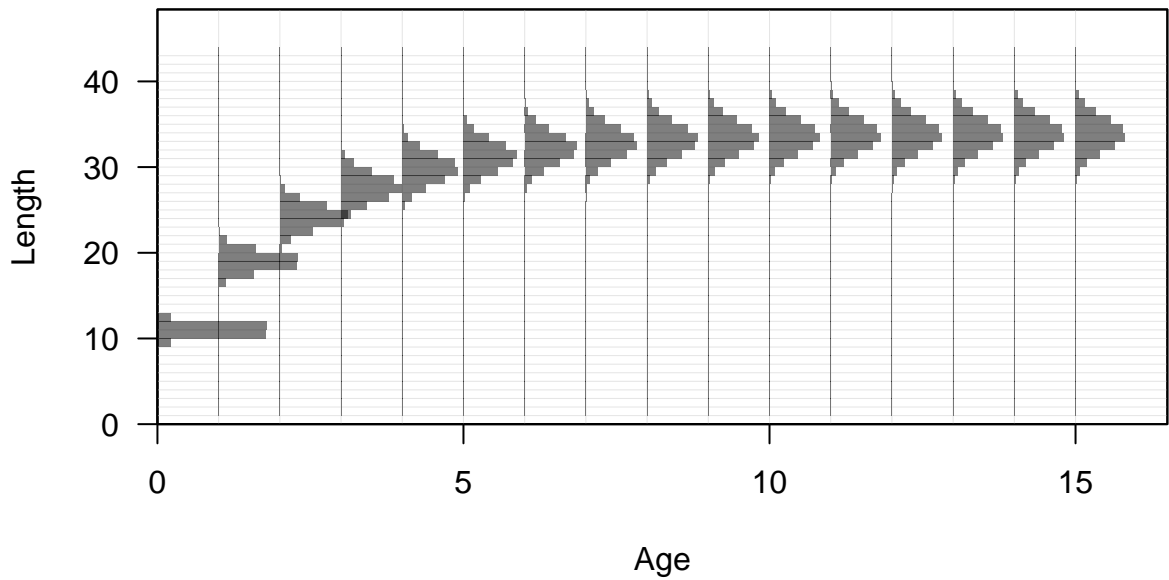


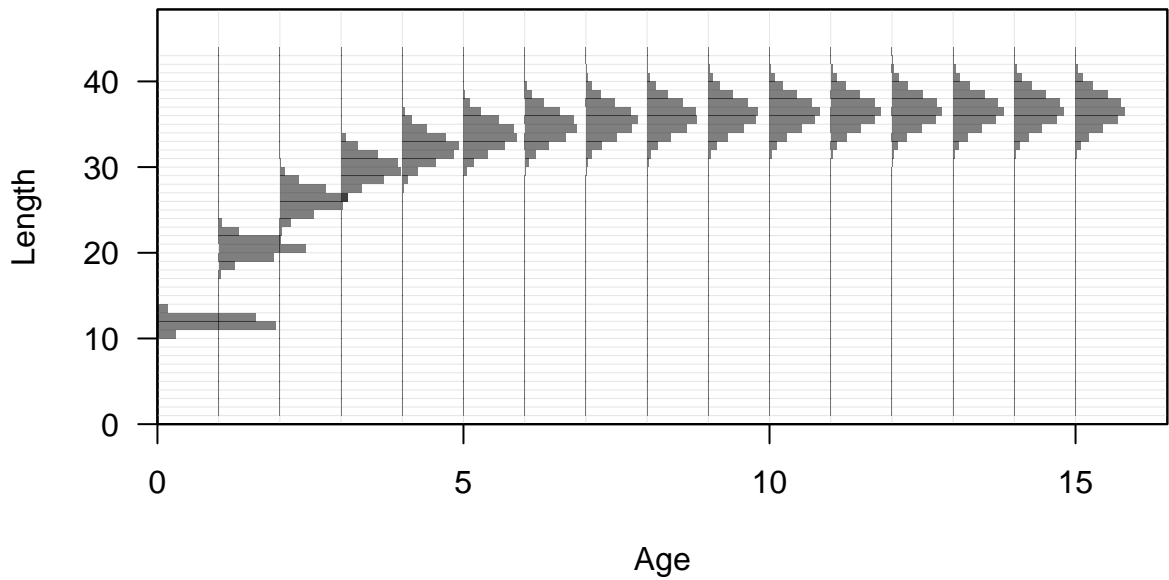


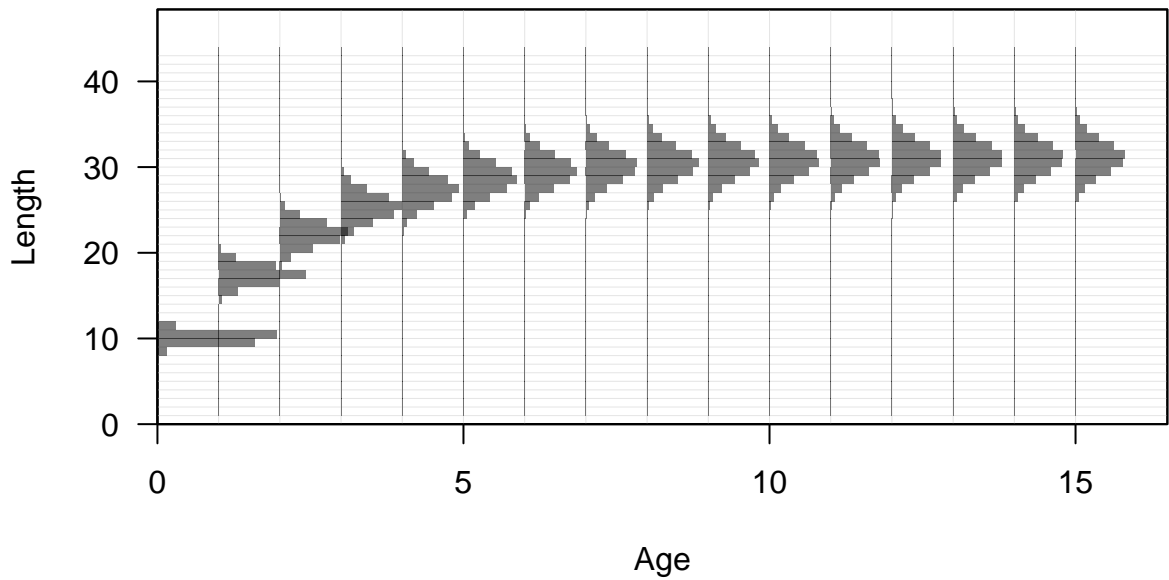


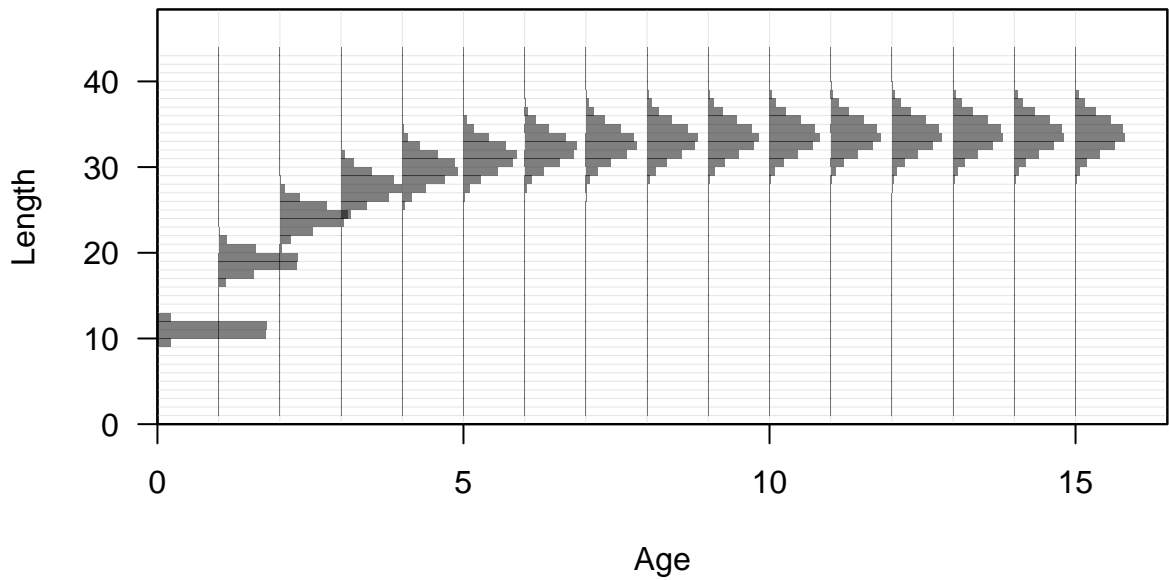


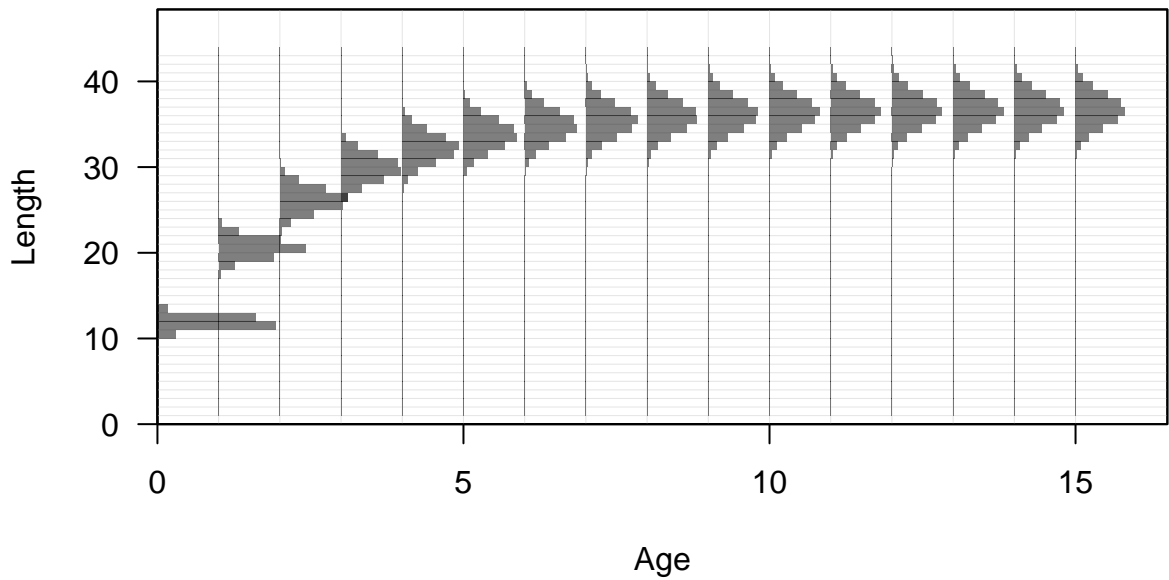




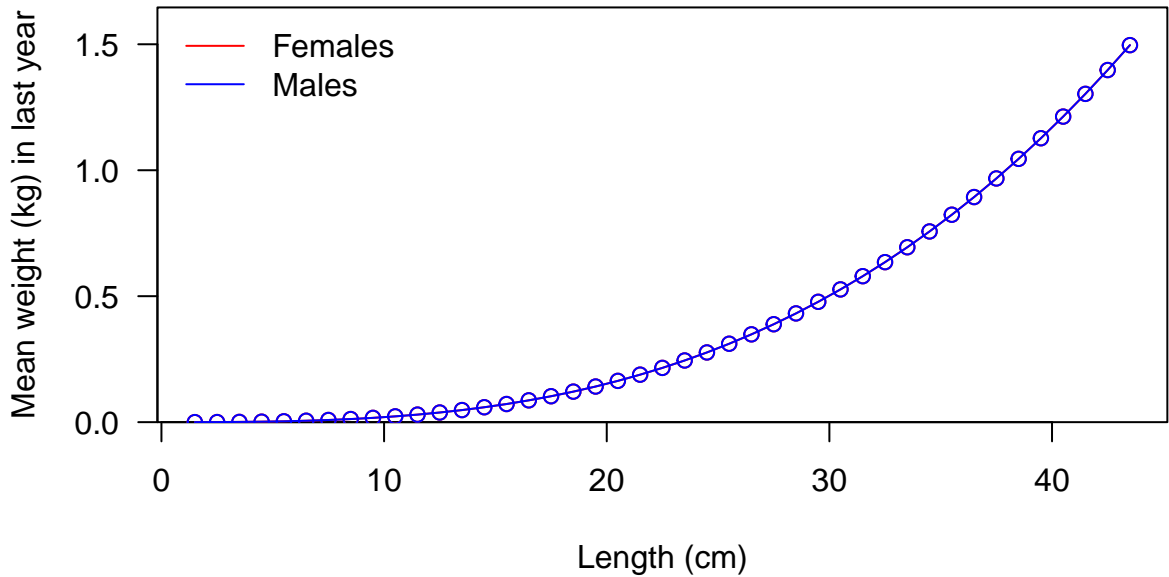


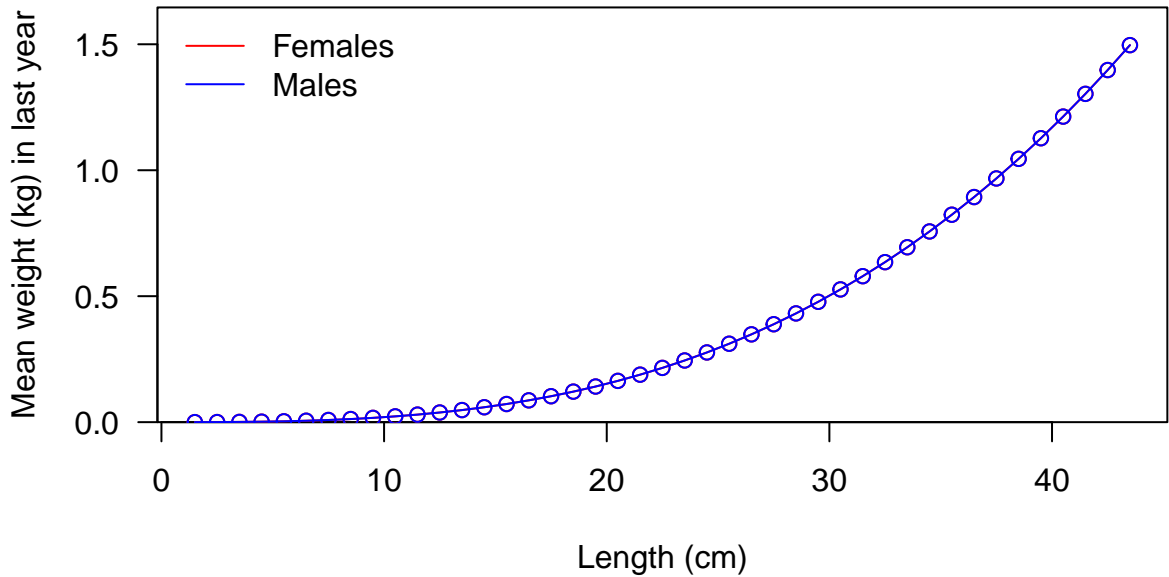


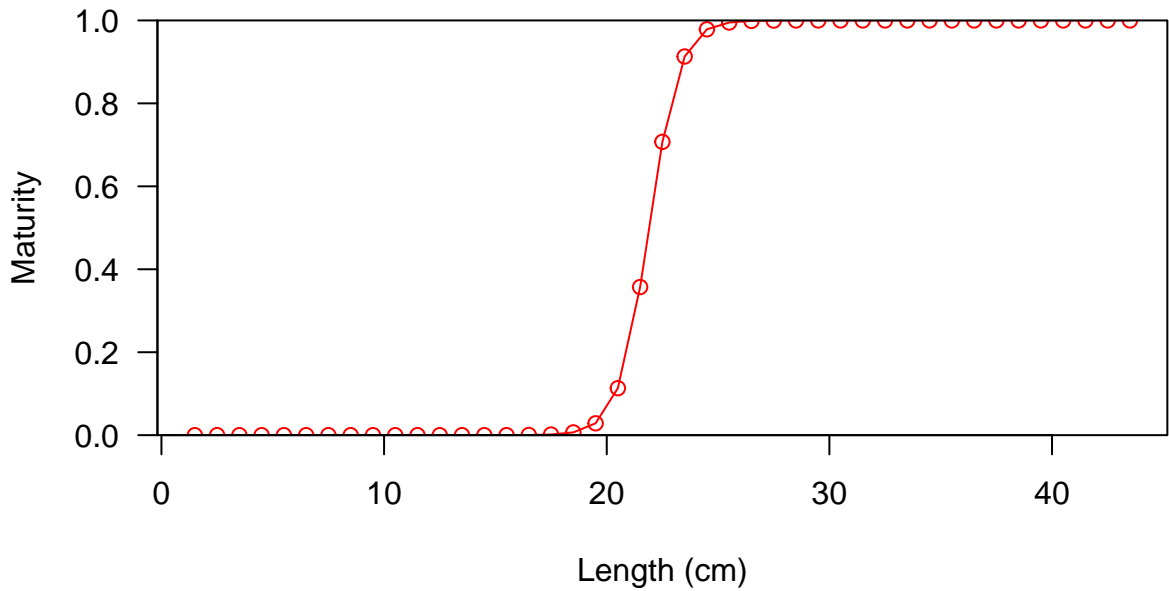


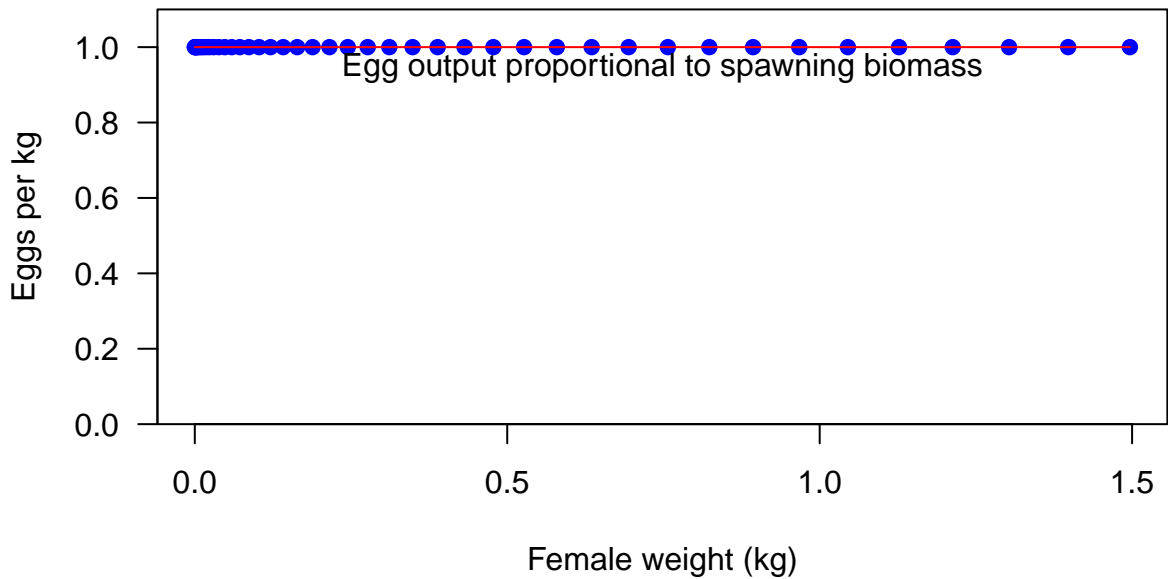


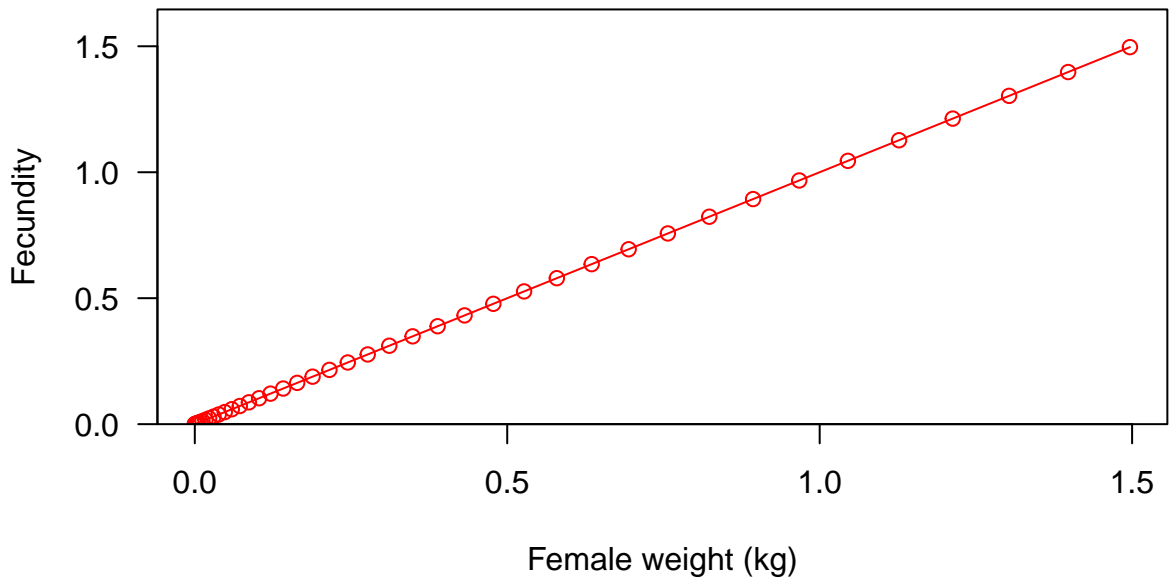


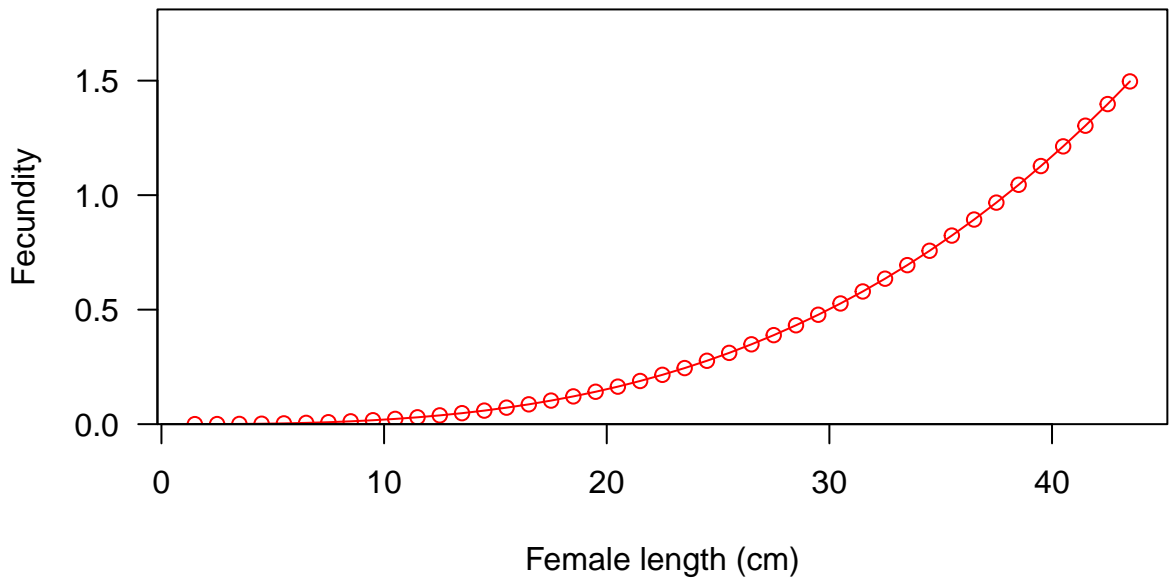




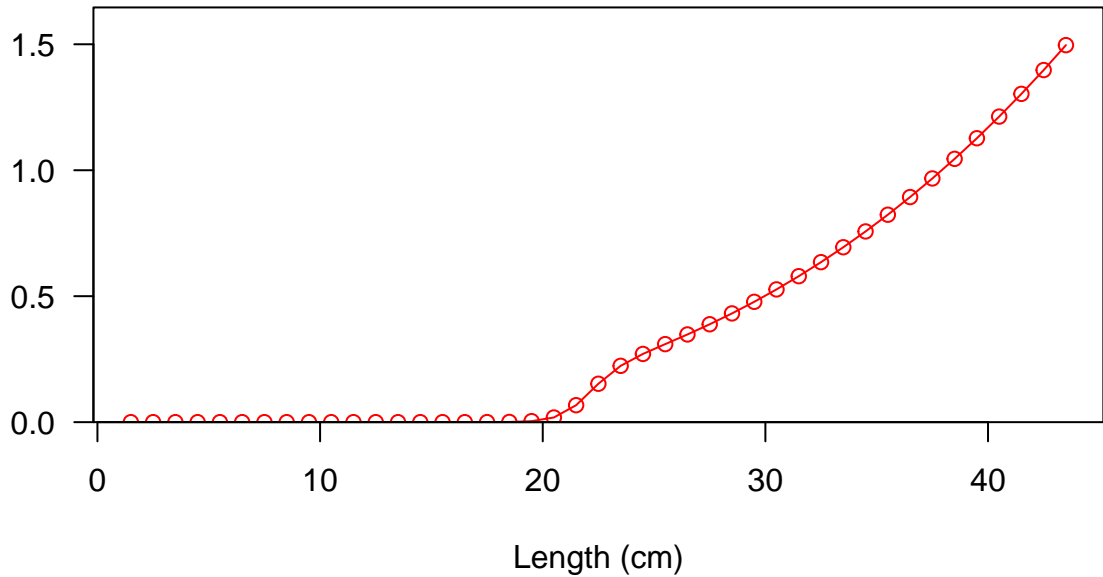


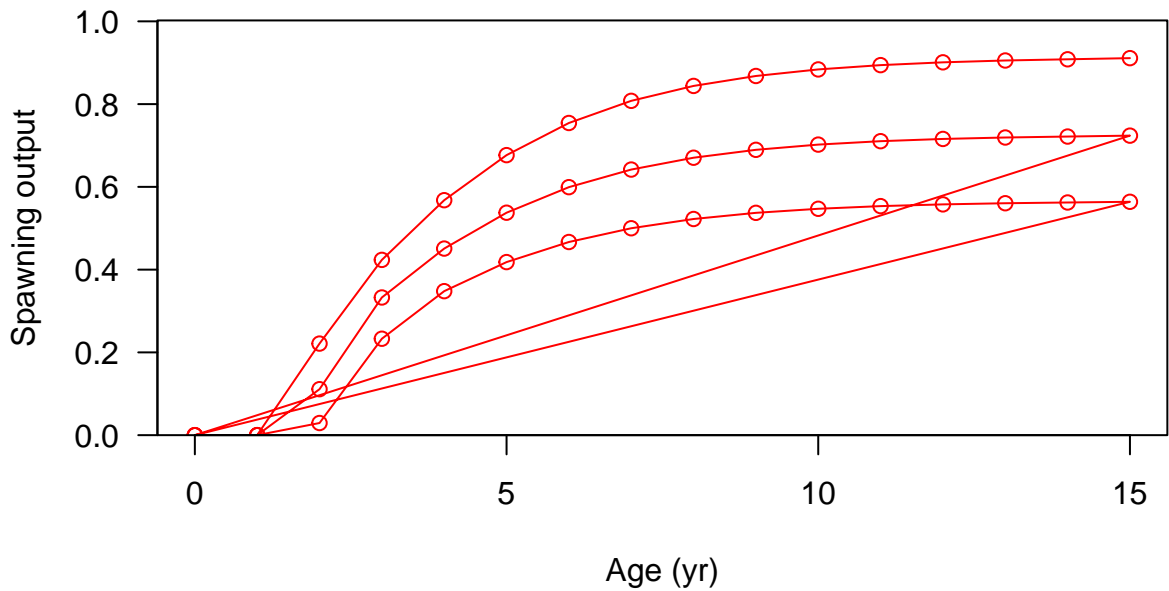






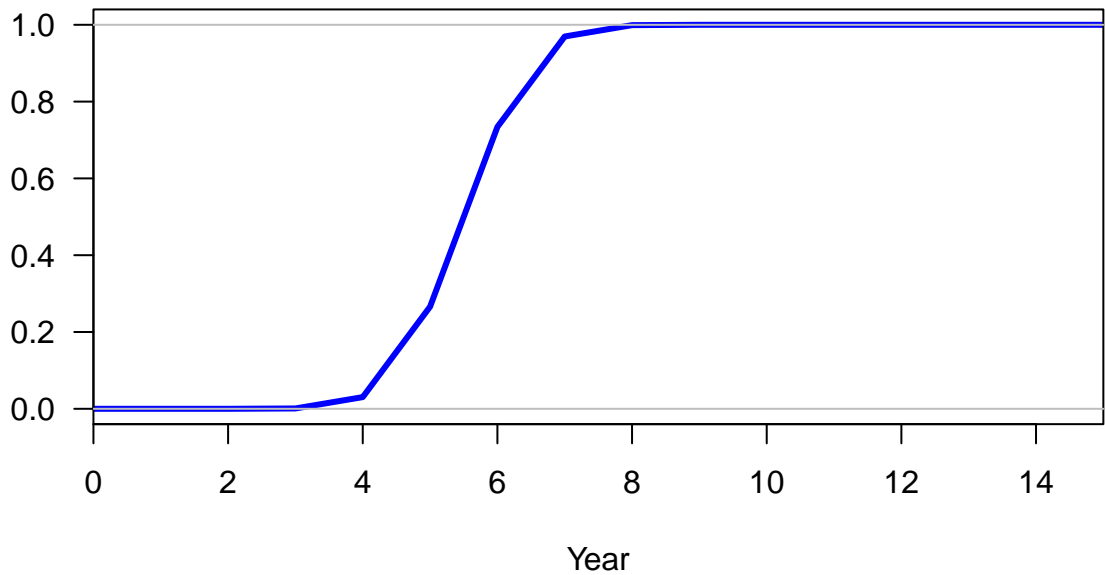
Spawning output



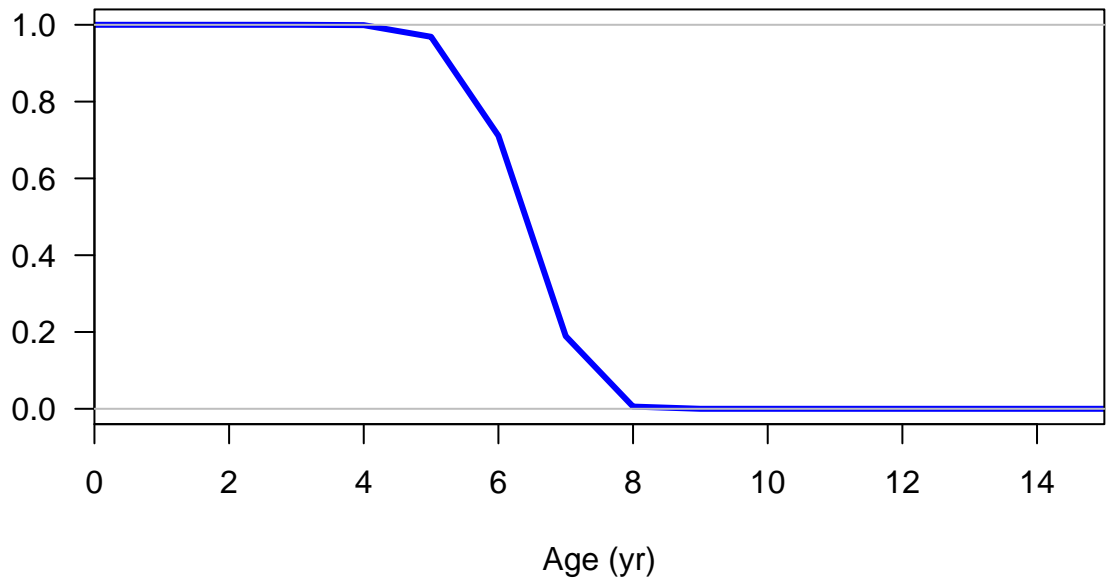




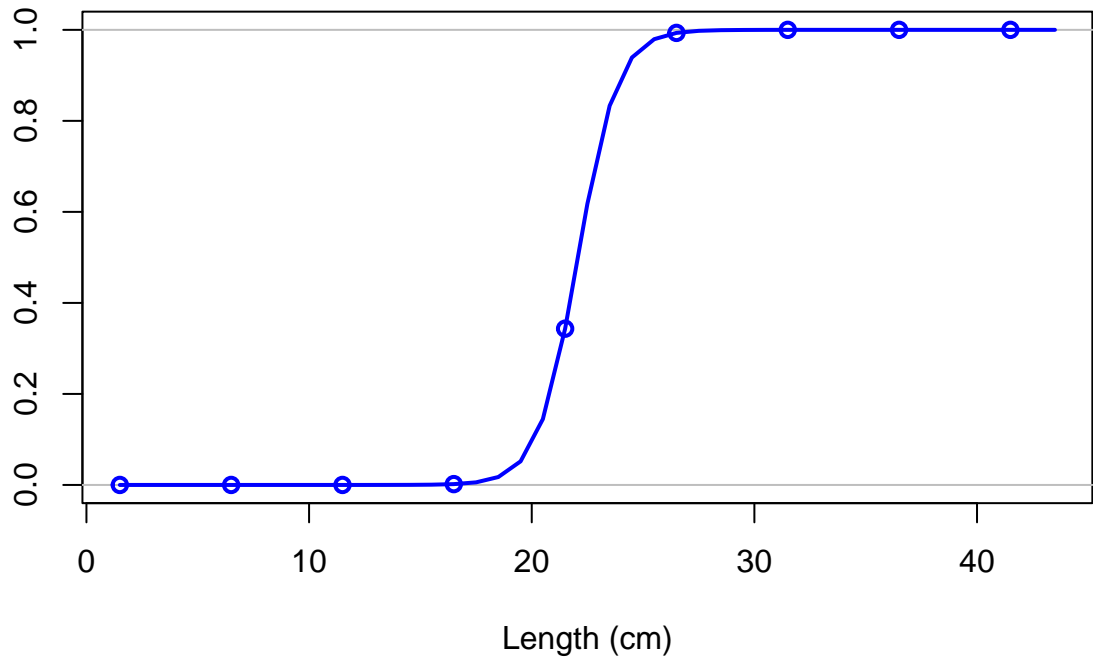
Hermaphroditism transition rate



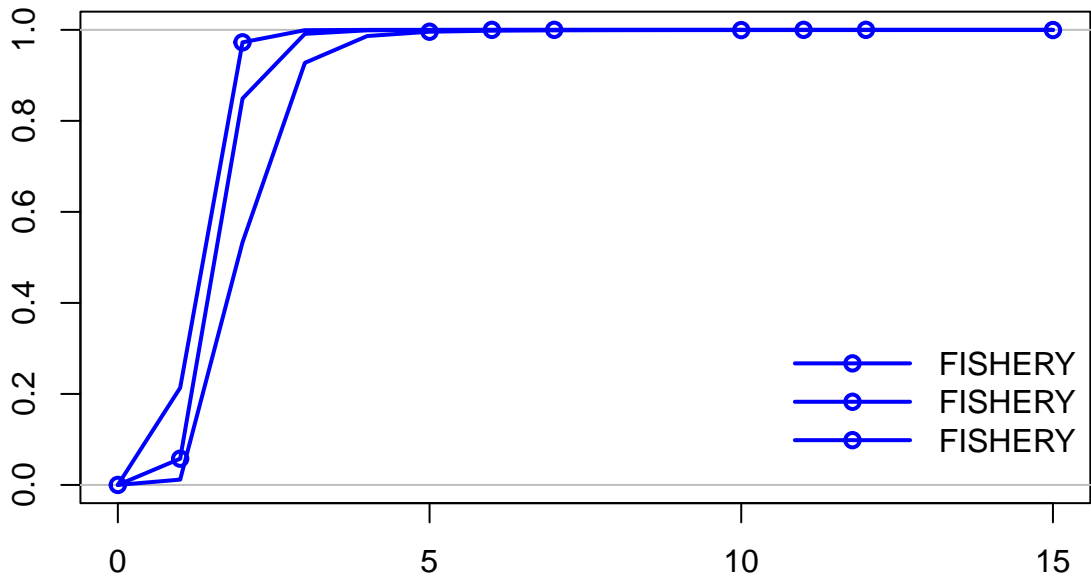
Fraction females by age at equilibrium



Selectivity

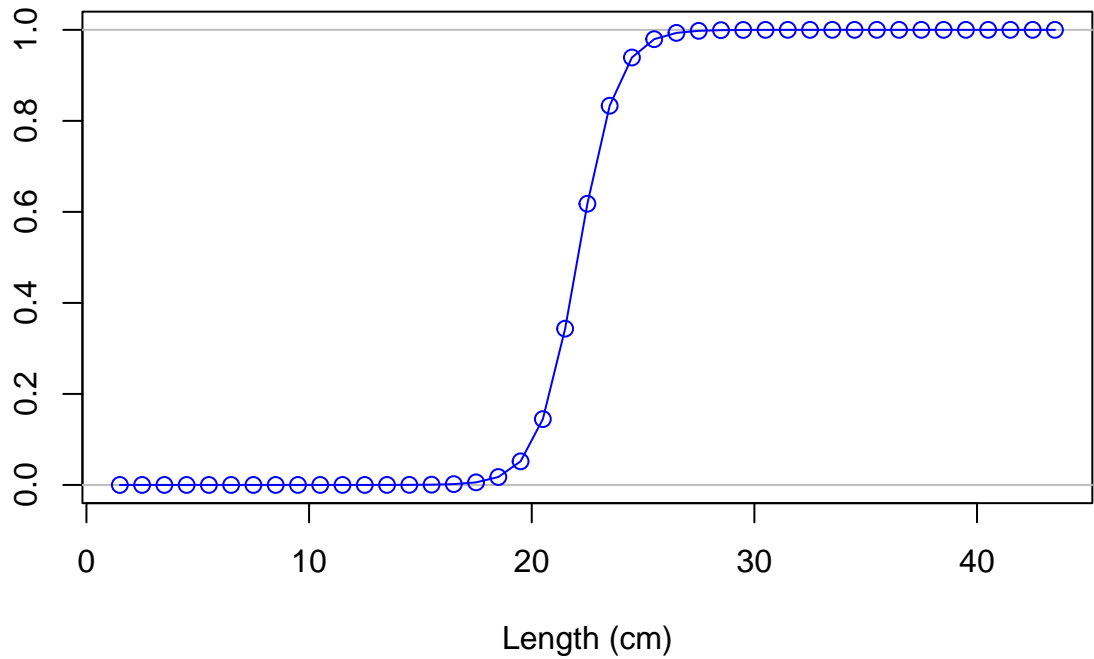


Selectivity

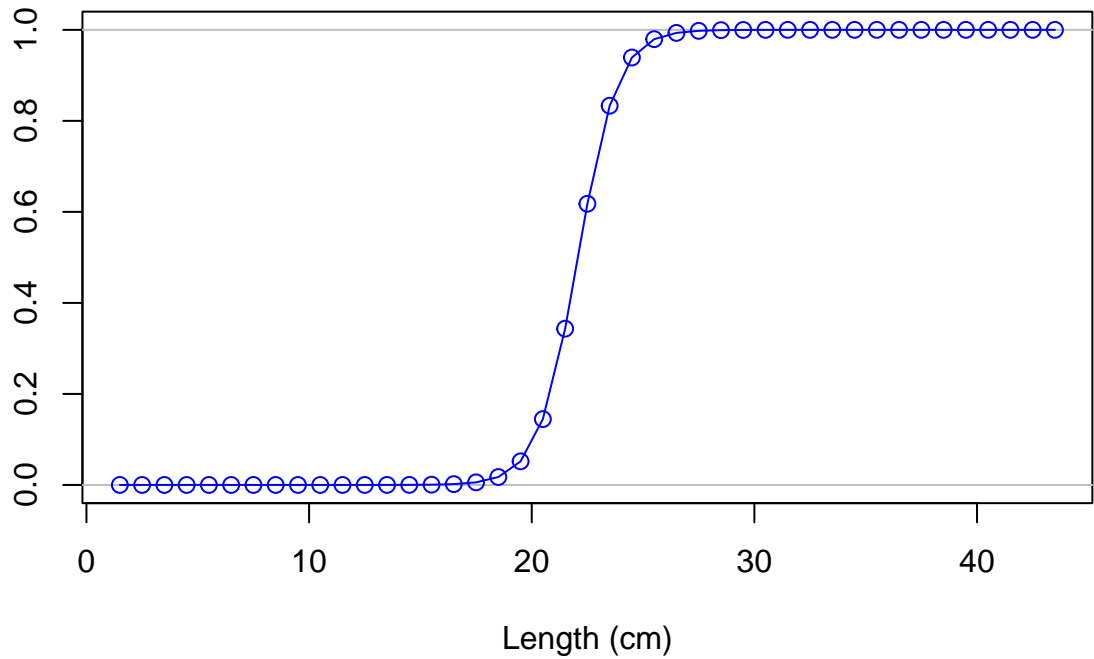


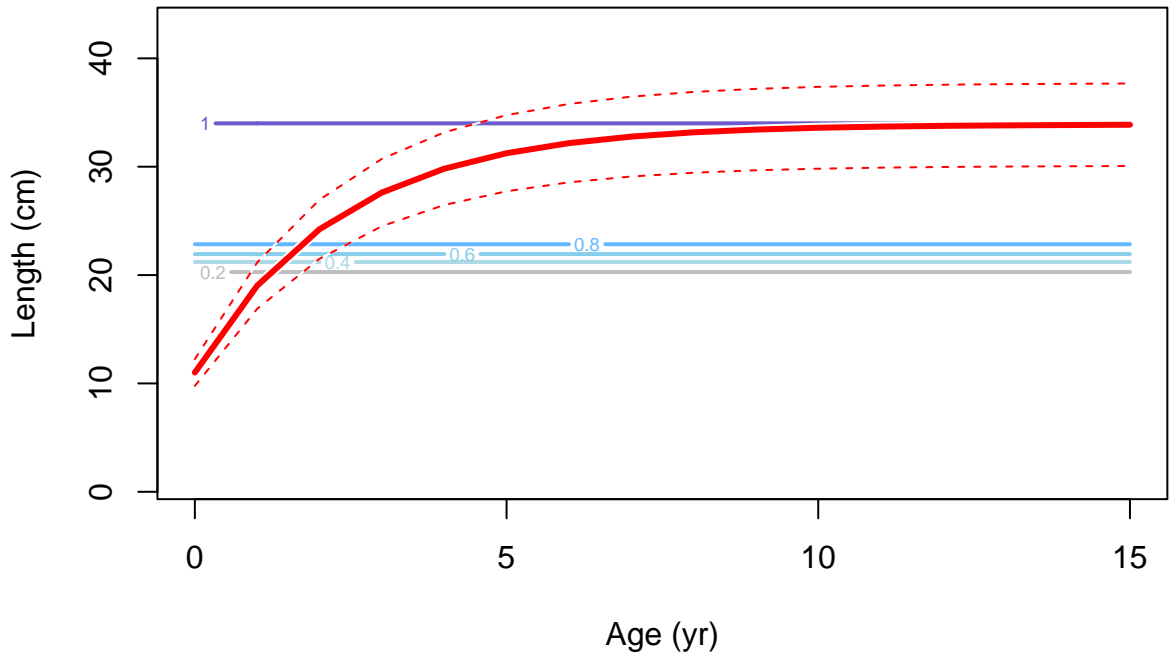
Age (yr)

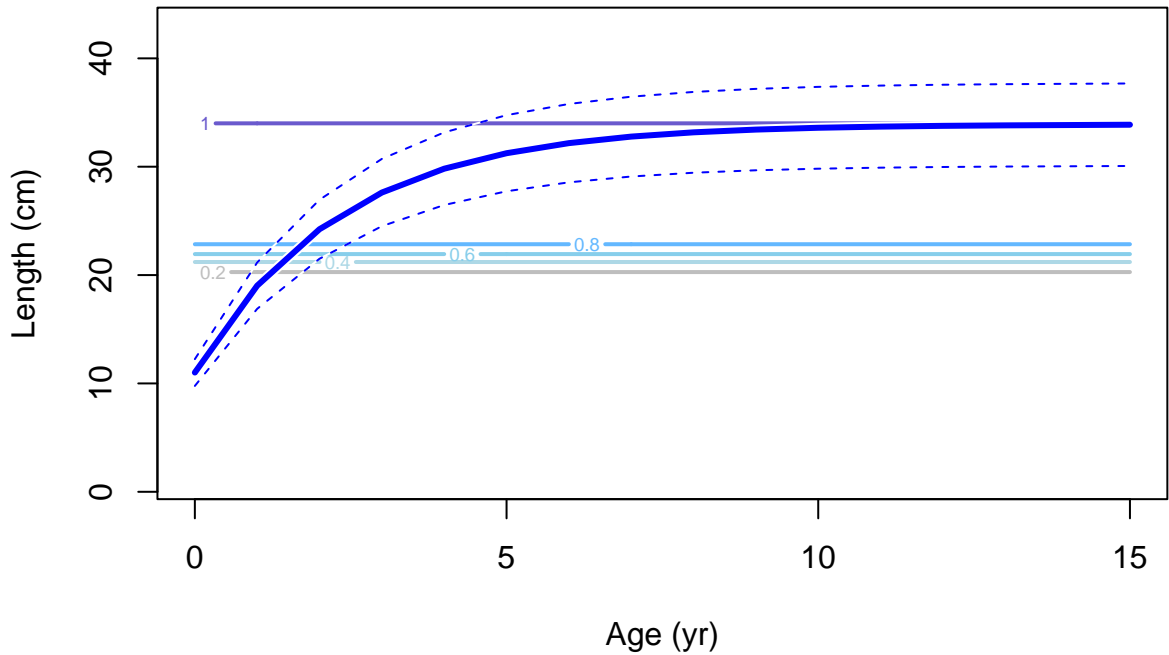
Selectivity



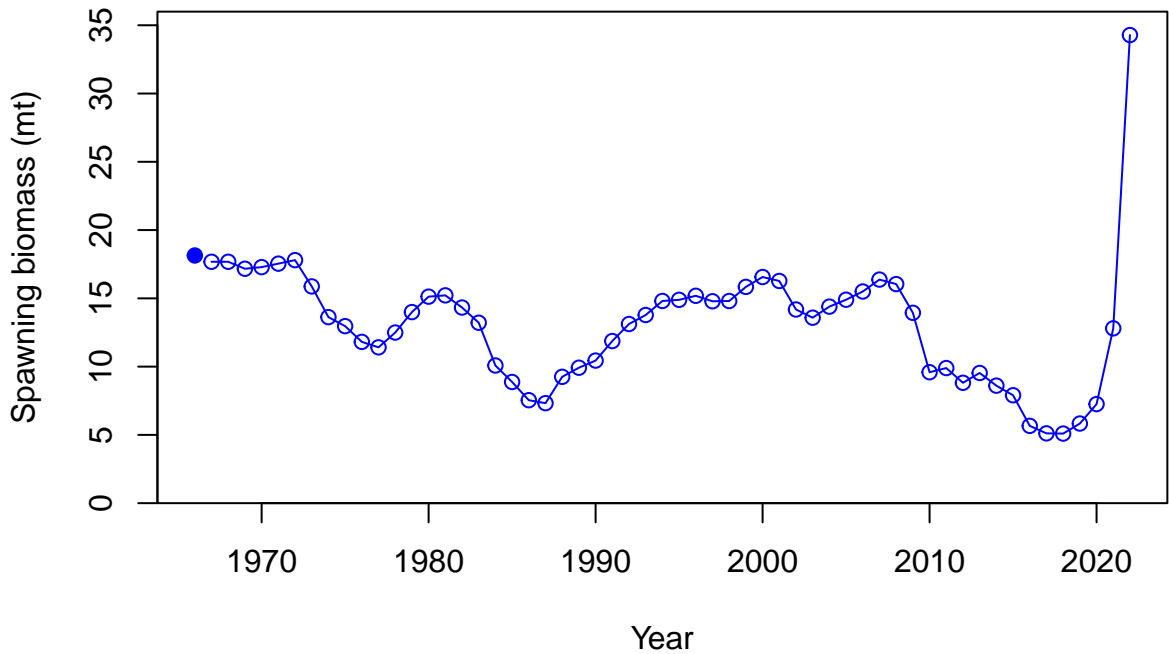
Selectivity



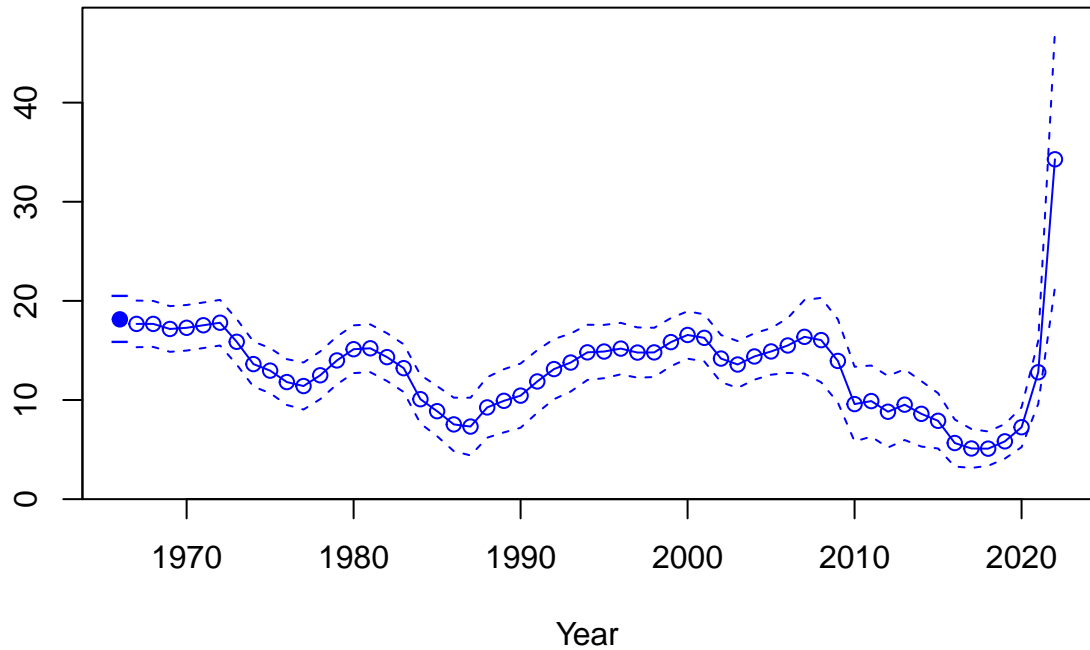




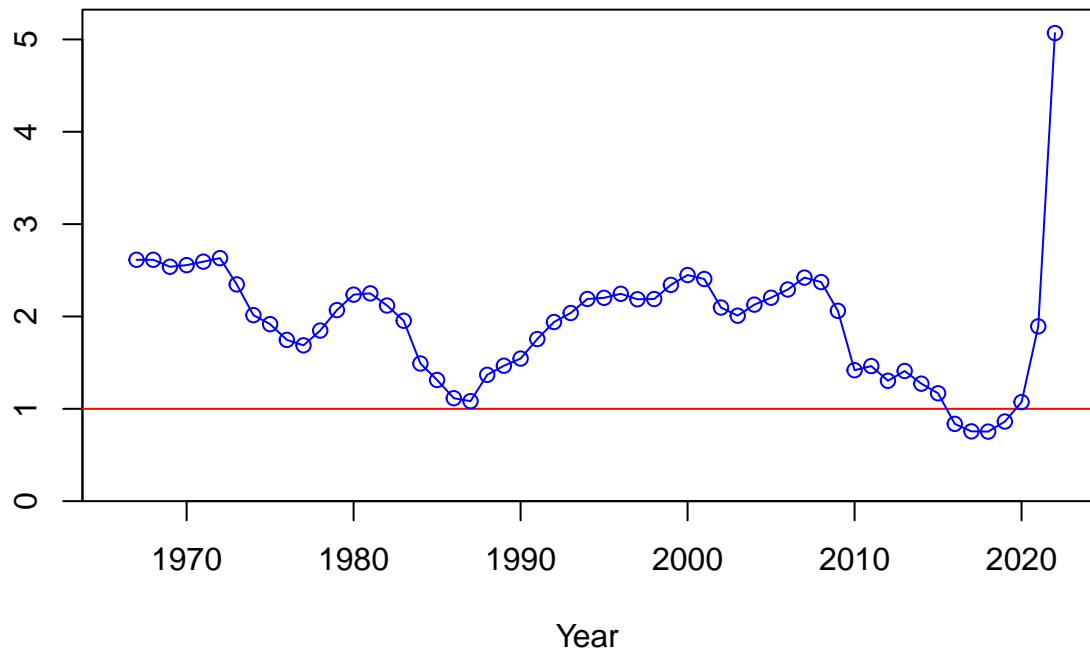




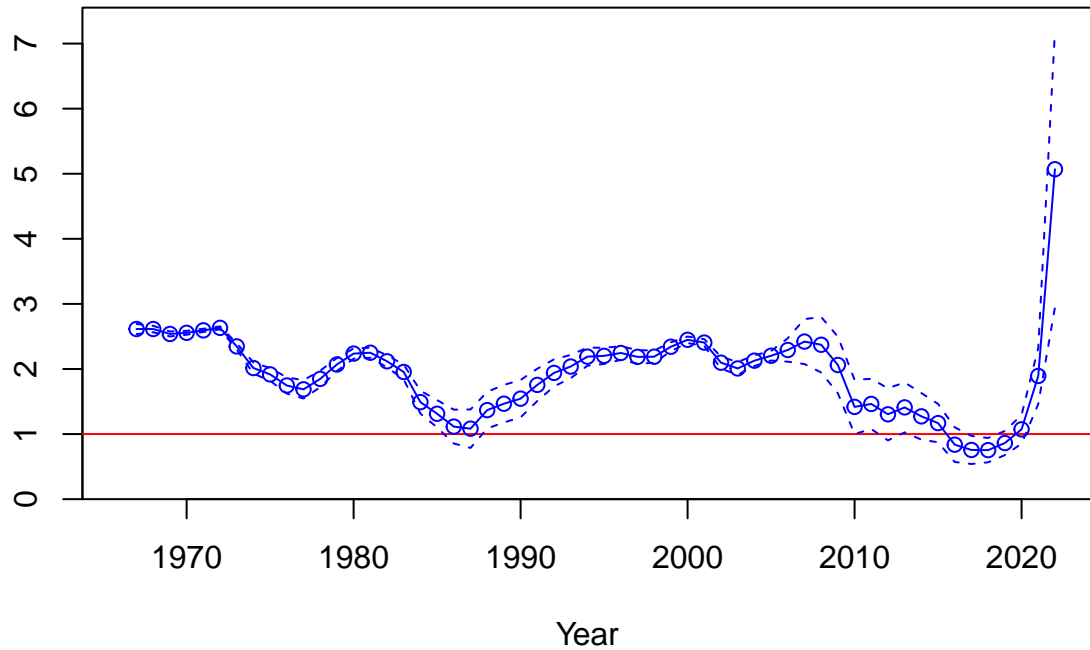
Spawning biomass (mt)

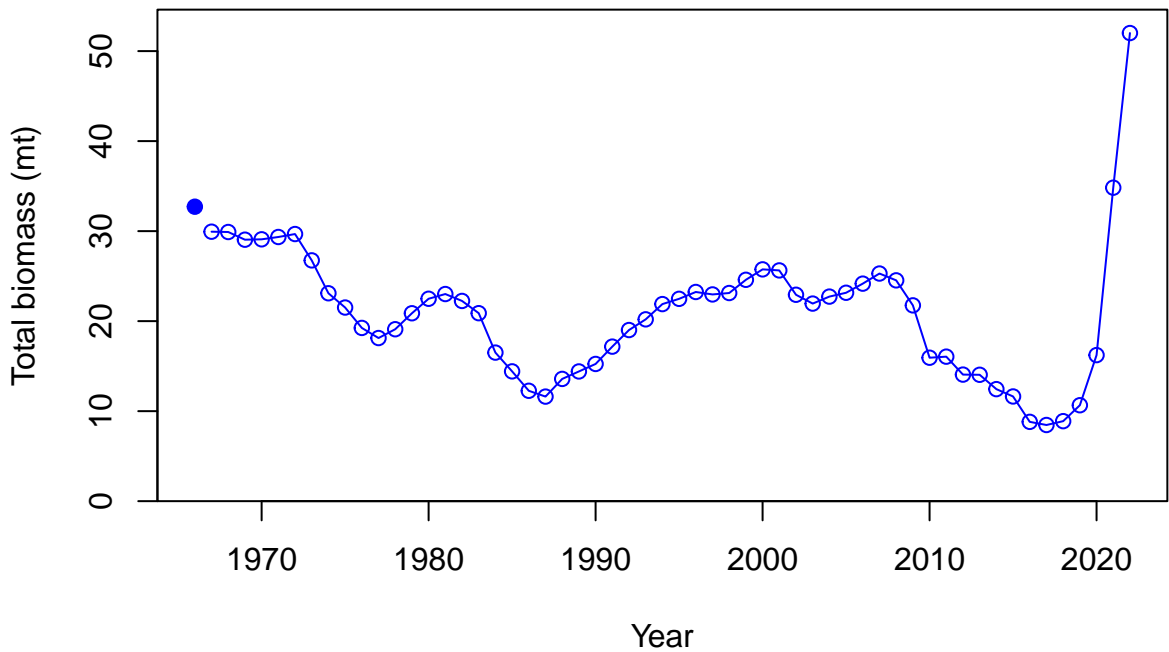


Relative spawning biomass: B/B\_MSY

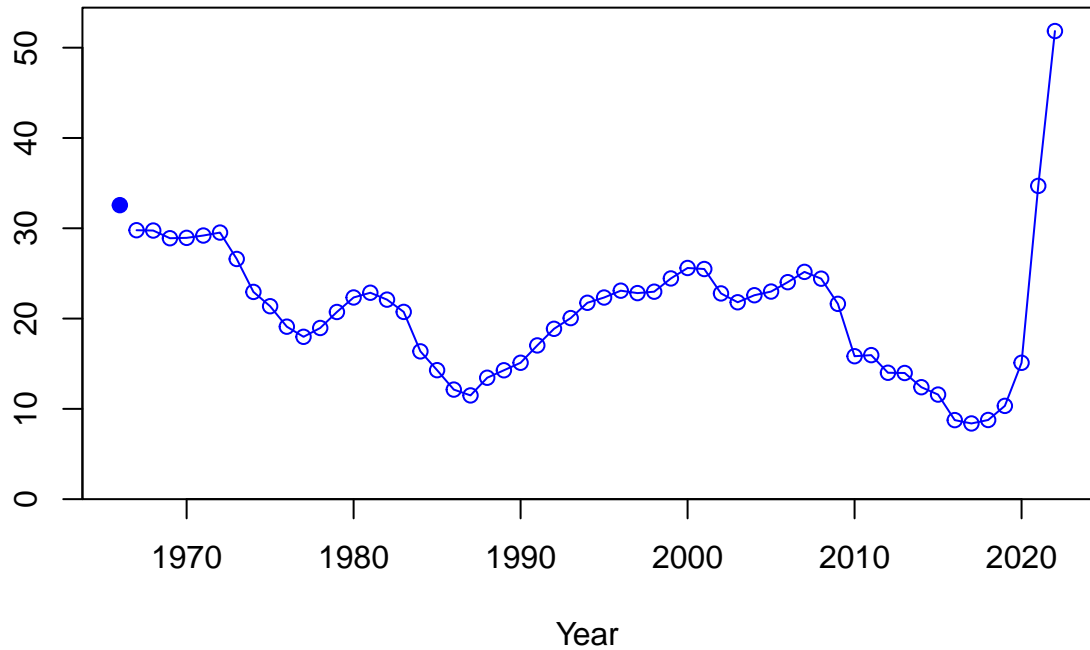


Relative spawning biomass:  $B/B_{MSY}$

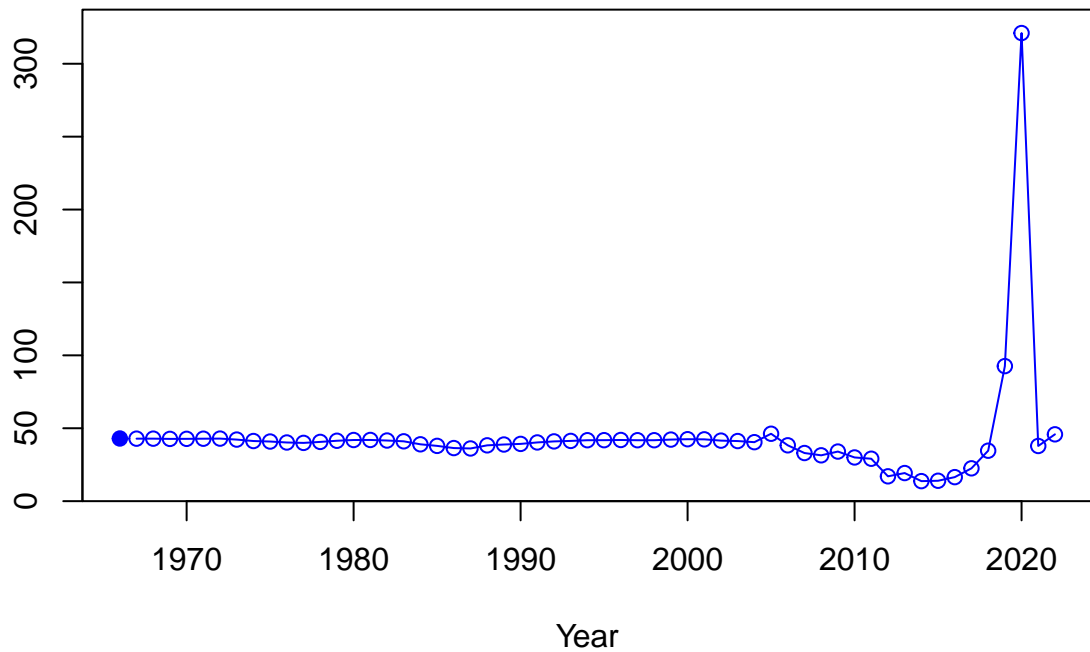




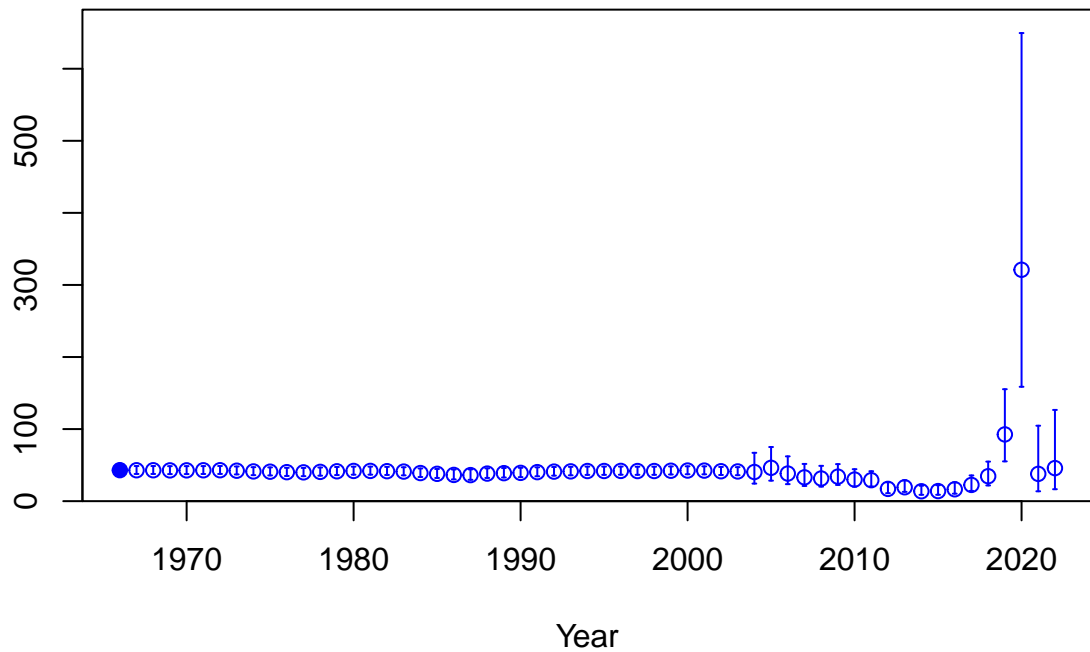
Summary biomass (mt)



Age-0 recruits (1,000s)

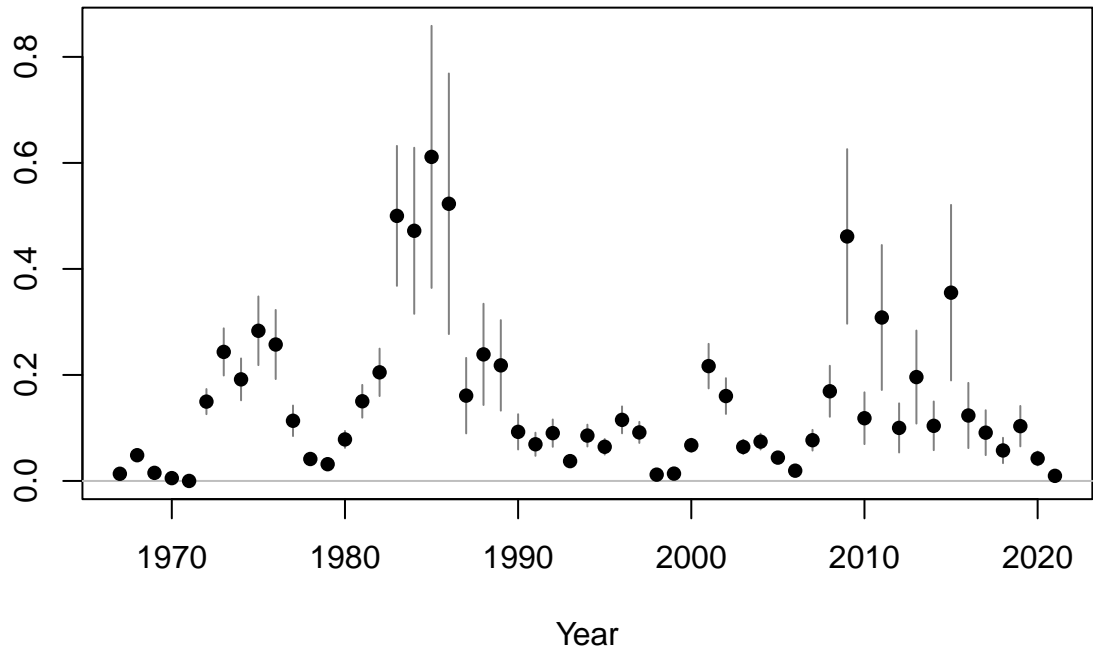


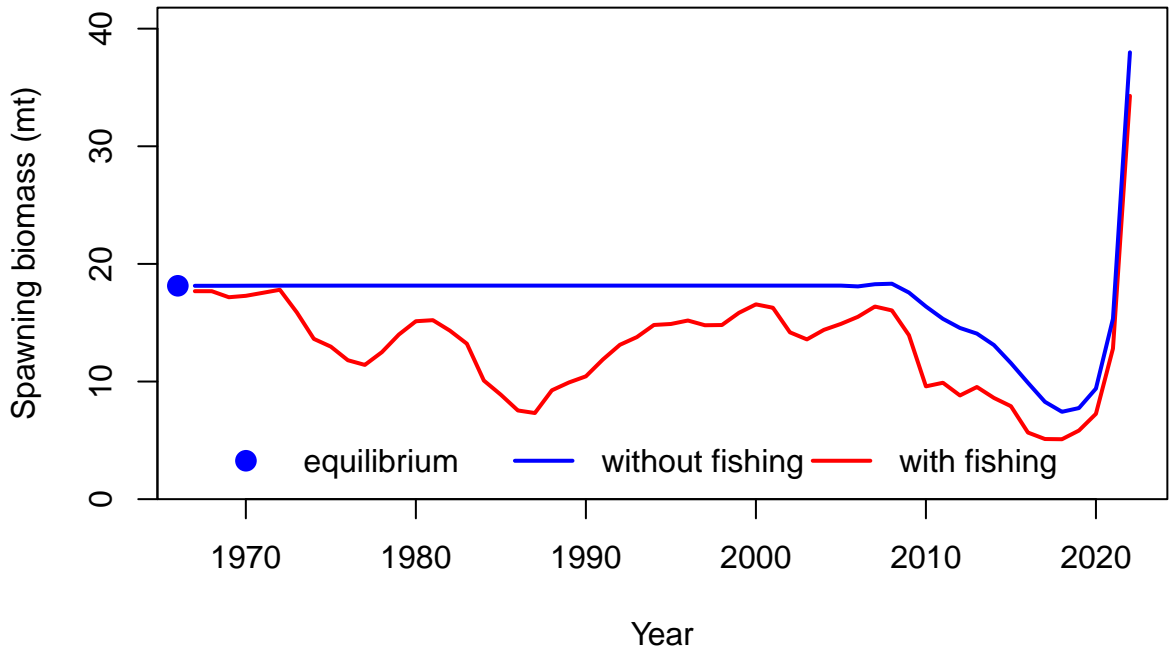
Age-0 recruits (1,000s)





Summary Fishing Mortality





Log recruitment deviation

2.0  
1.5  
1.0  
0.5  
-0.5

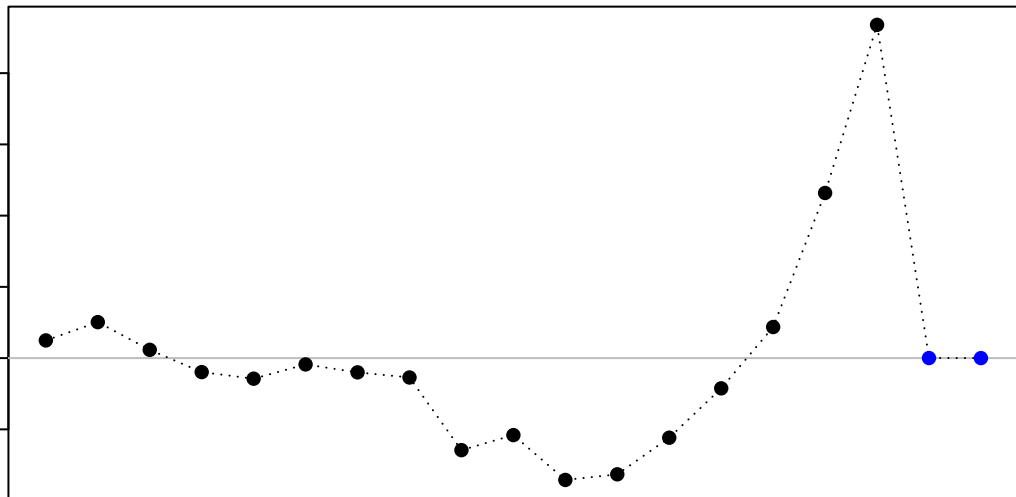
2005

2010

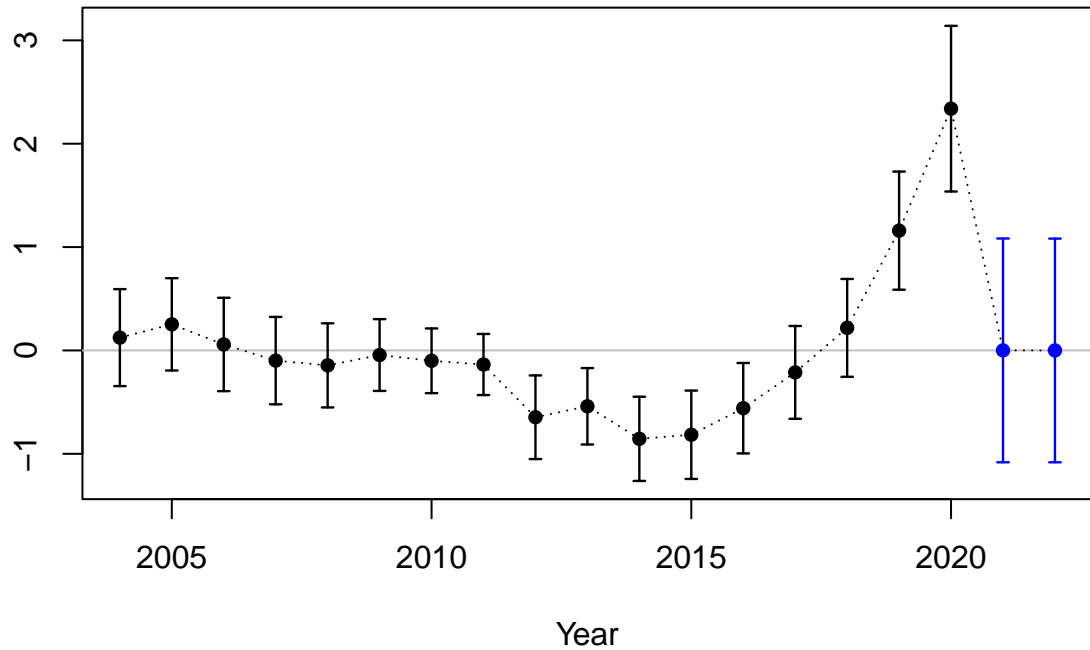
2015

2020

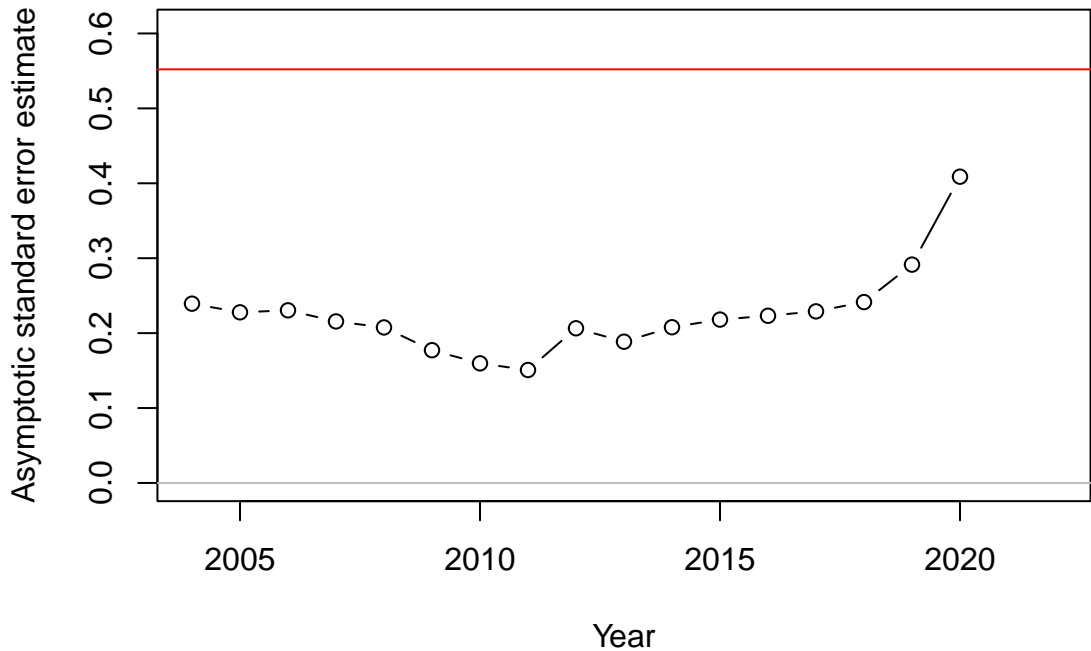
Year

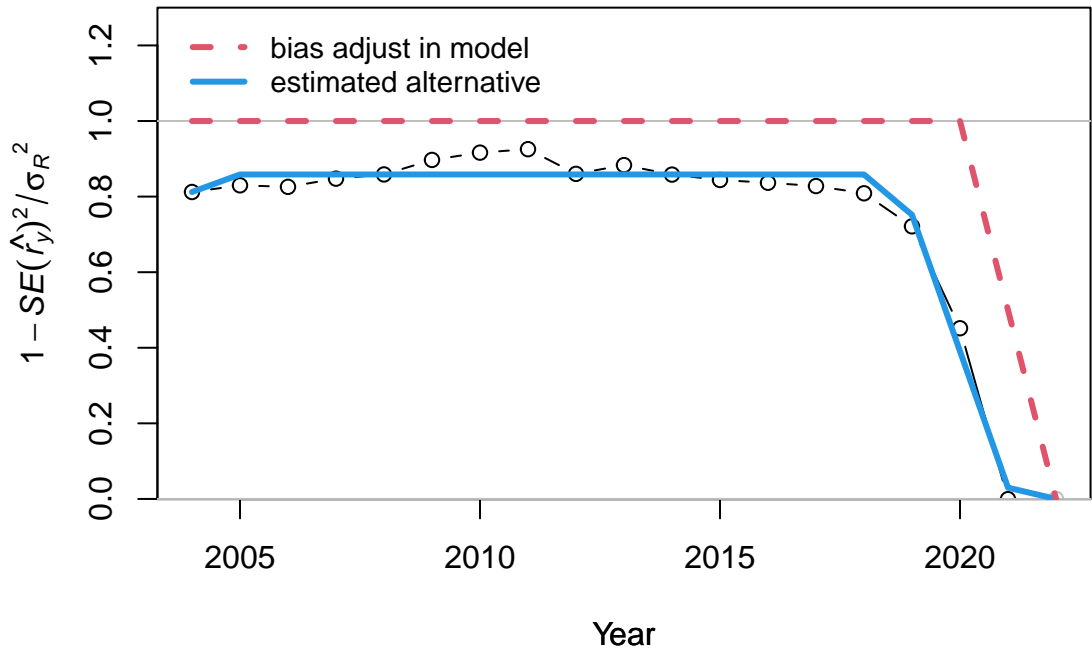


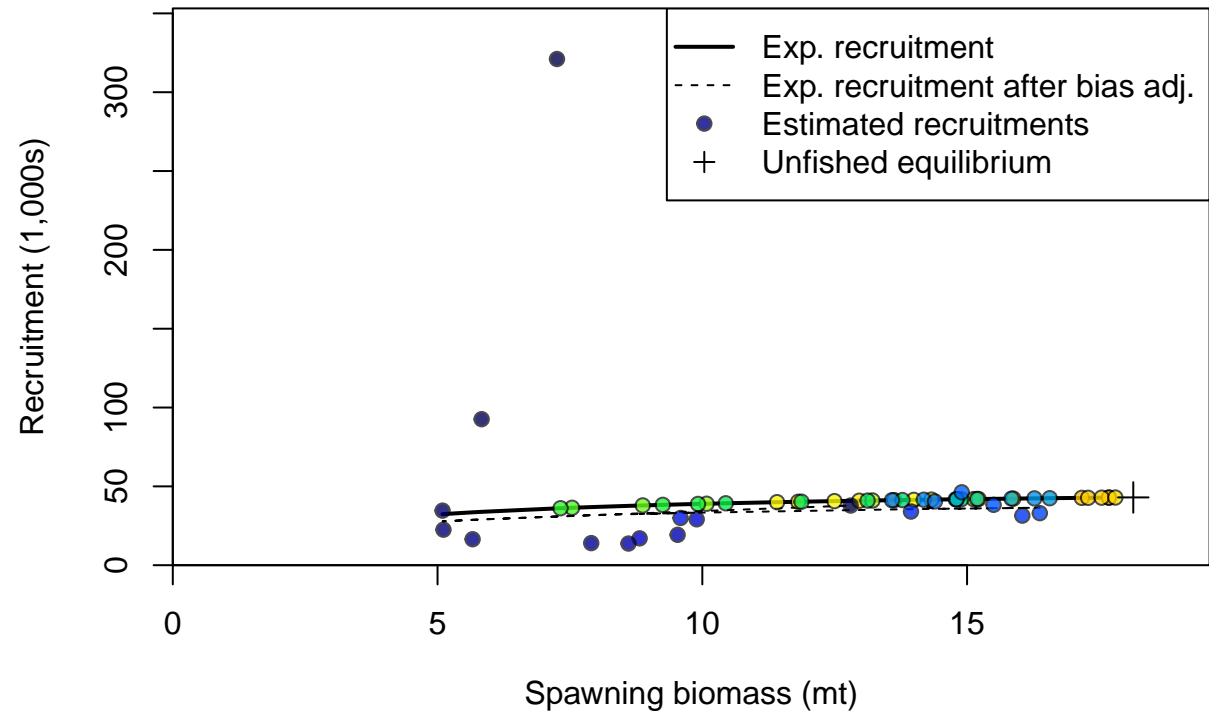
Log recruitment deviation

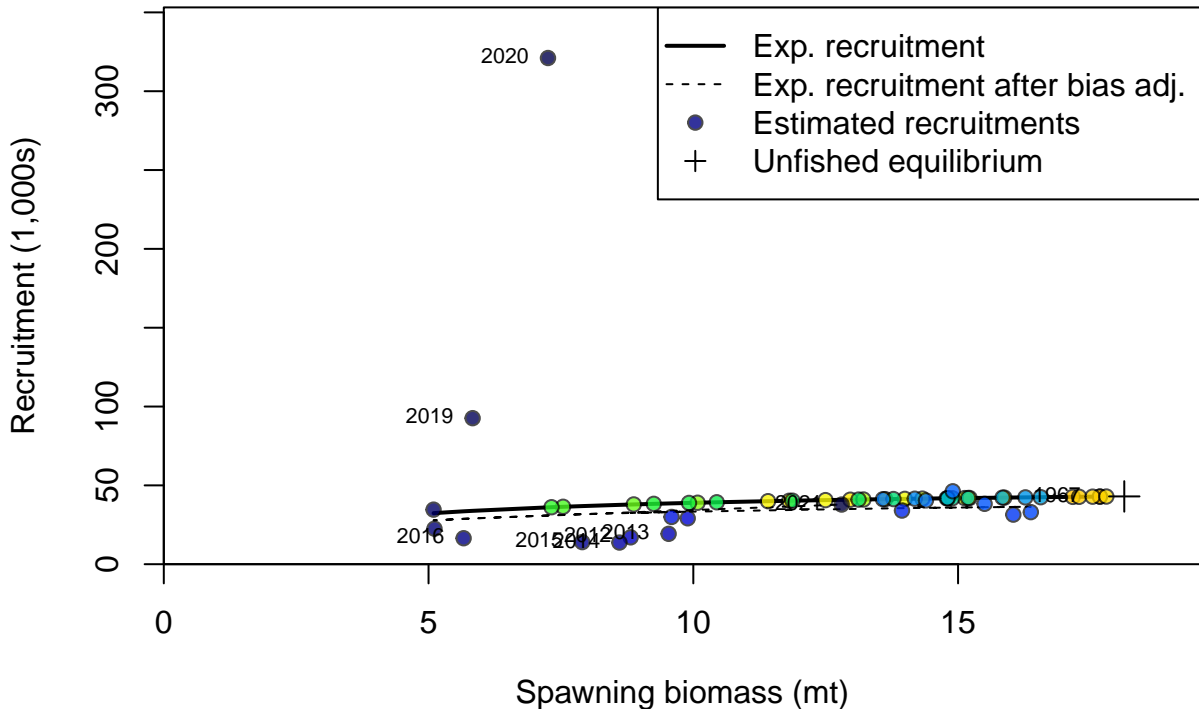


## Recruitment deviation variance



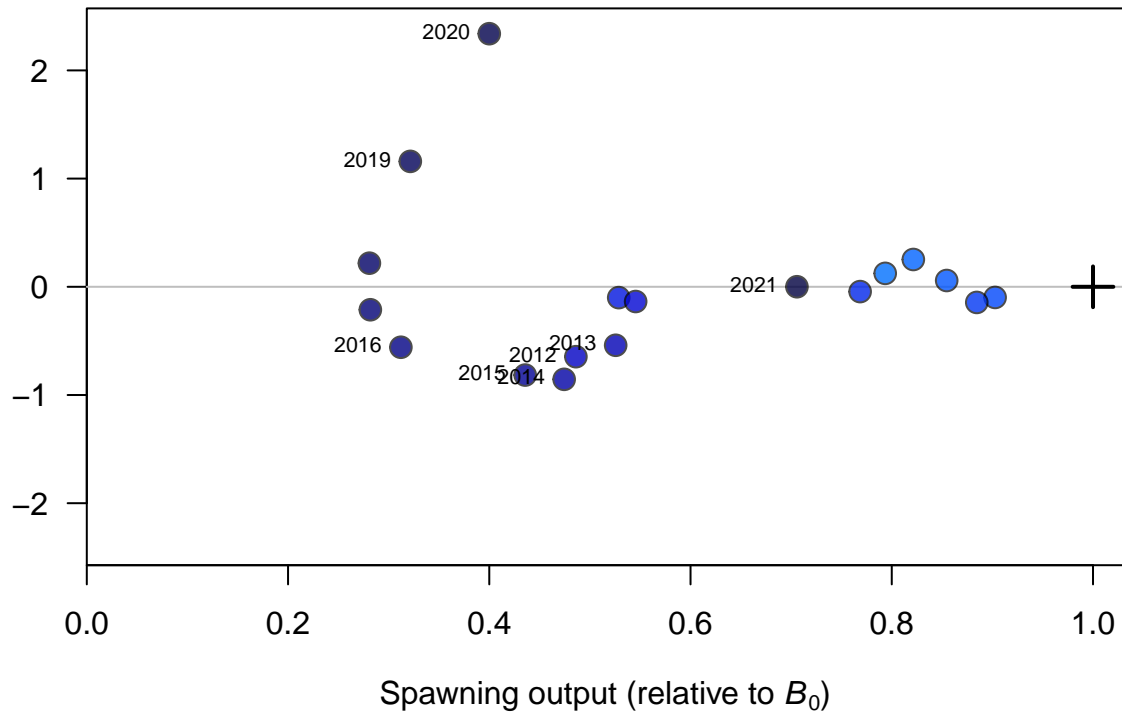


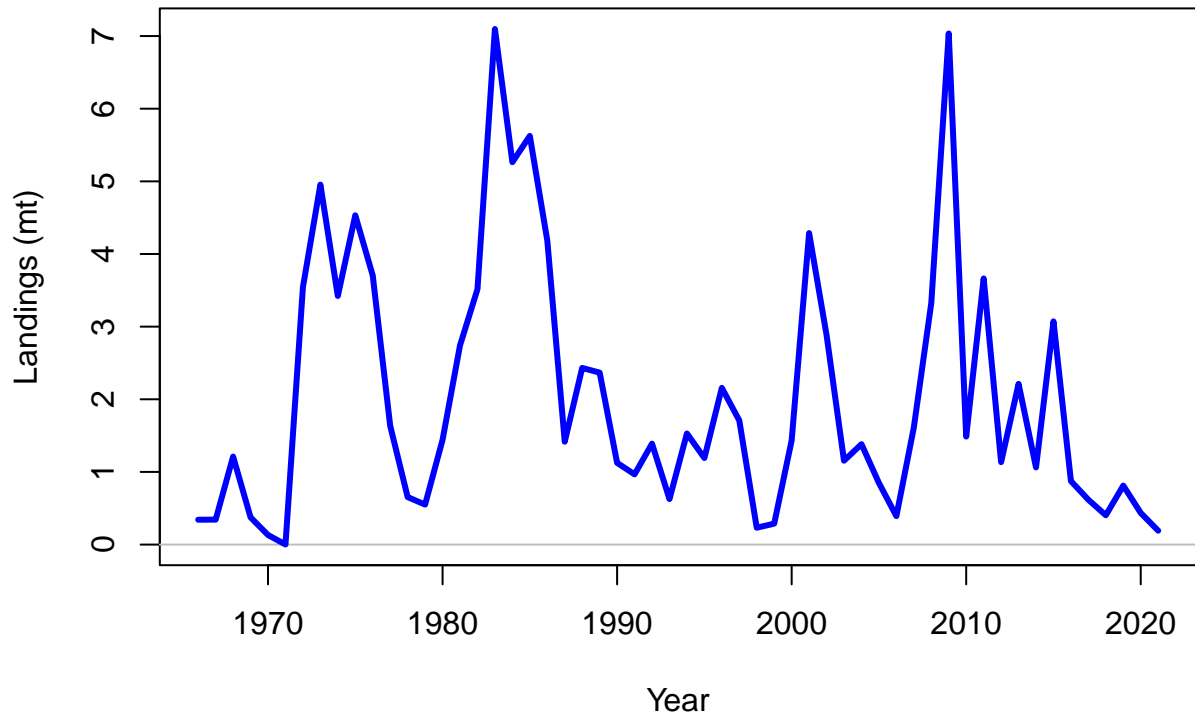


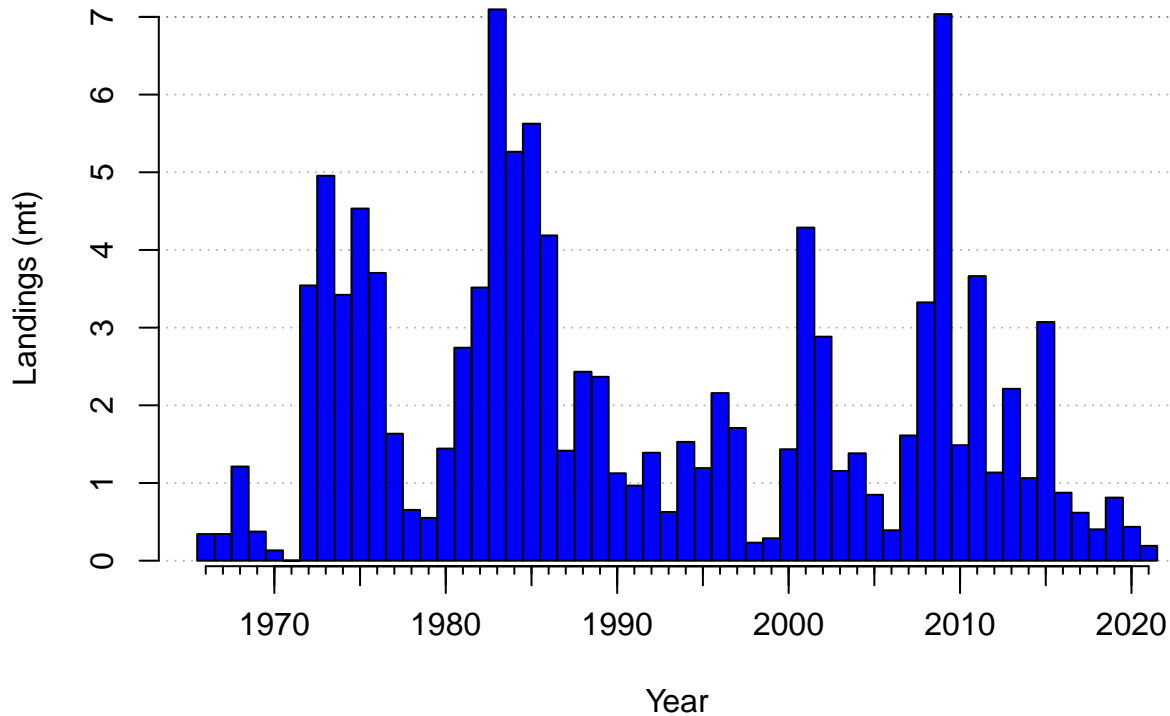


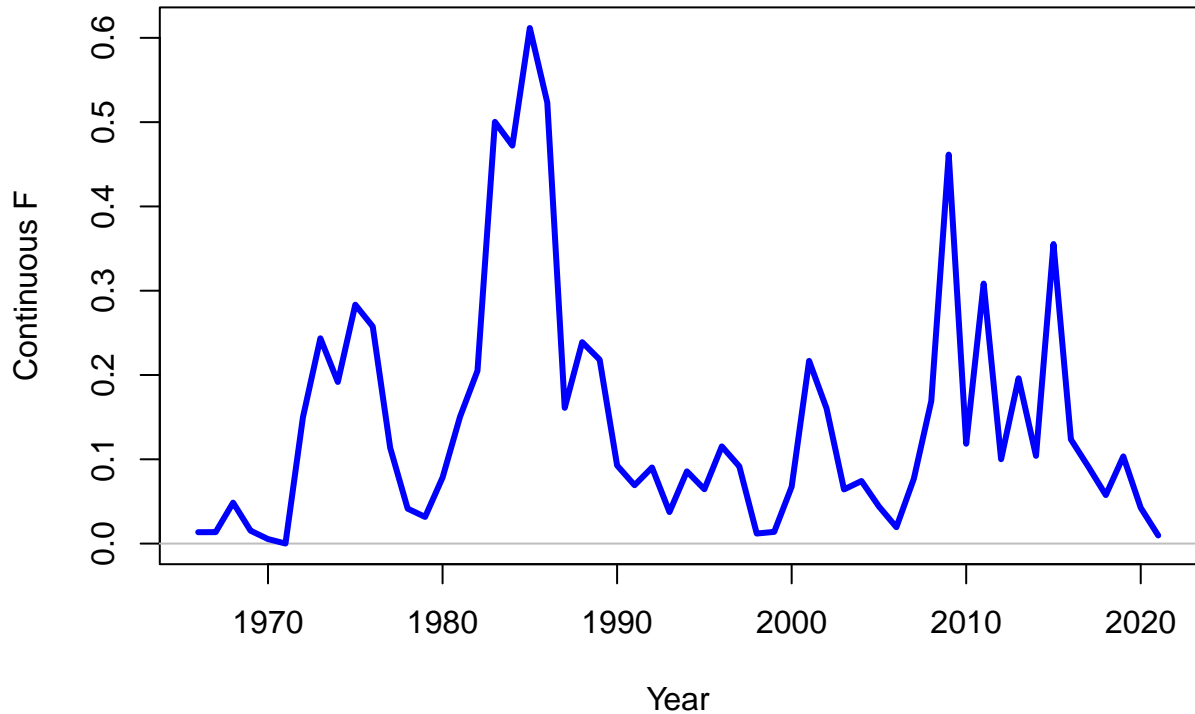


Log recruitment deviation

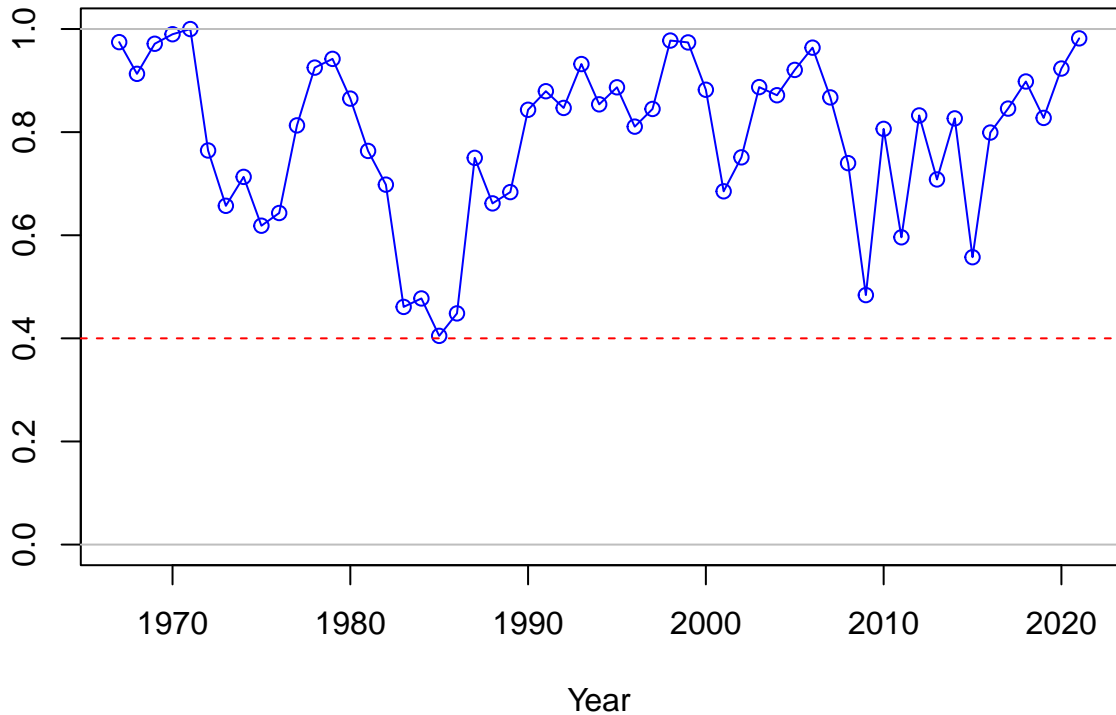




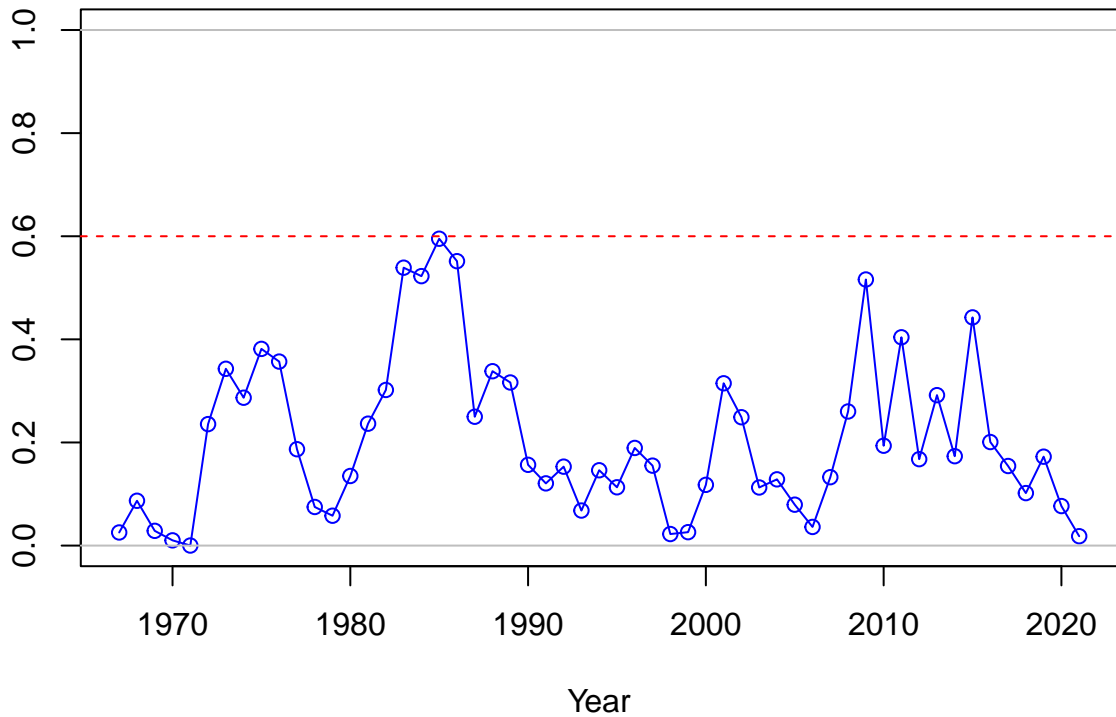




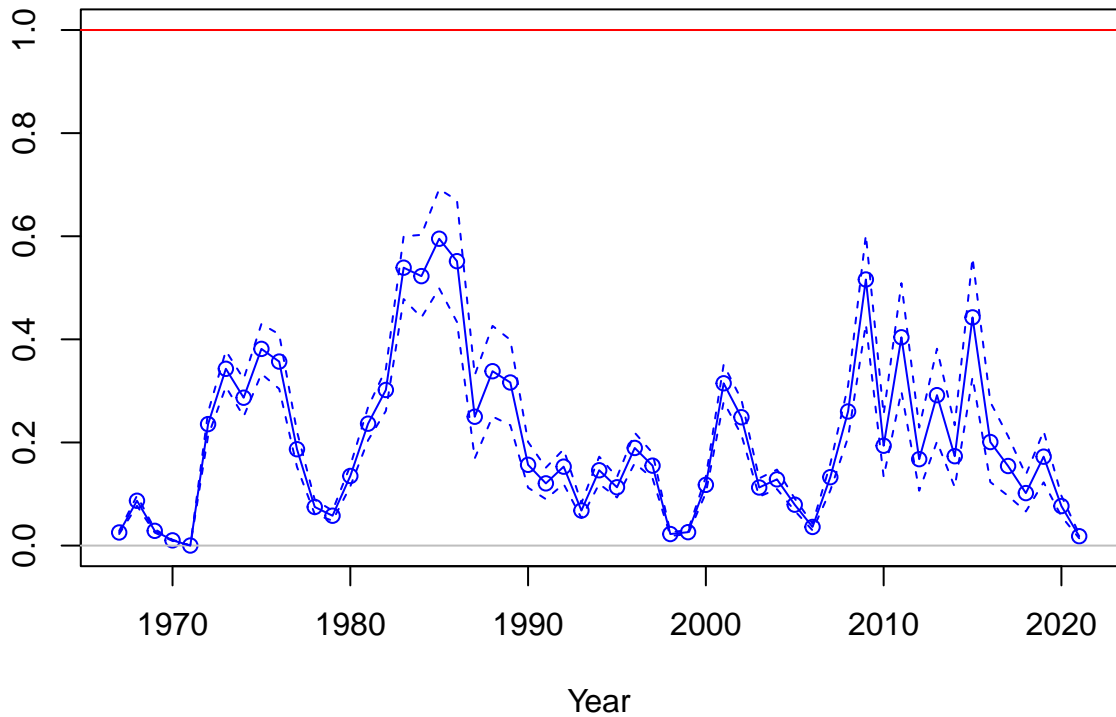
SPR



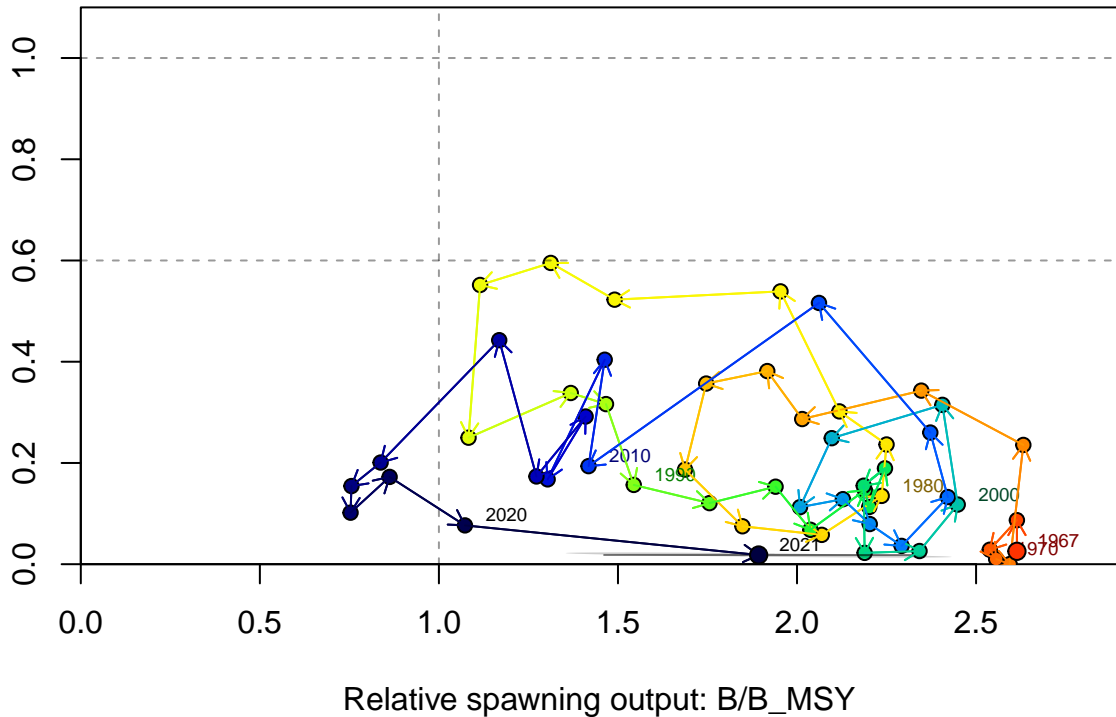
1-SPR



Fishing intensity: 1-SPR

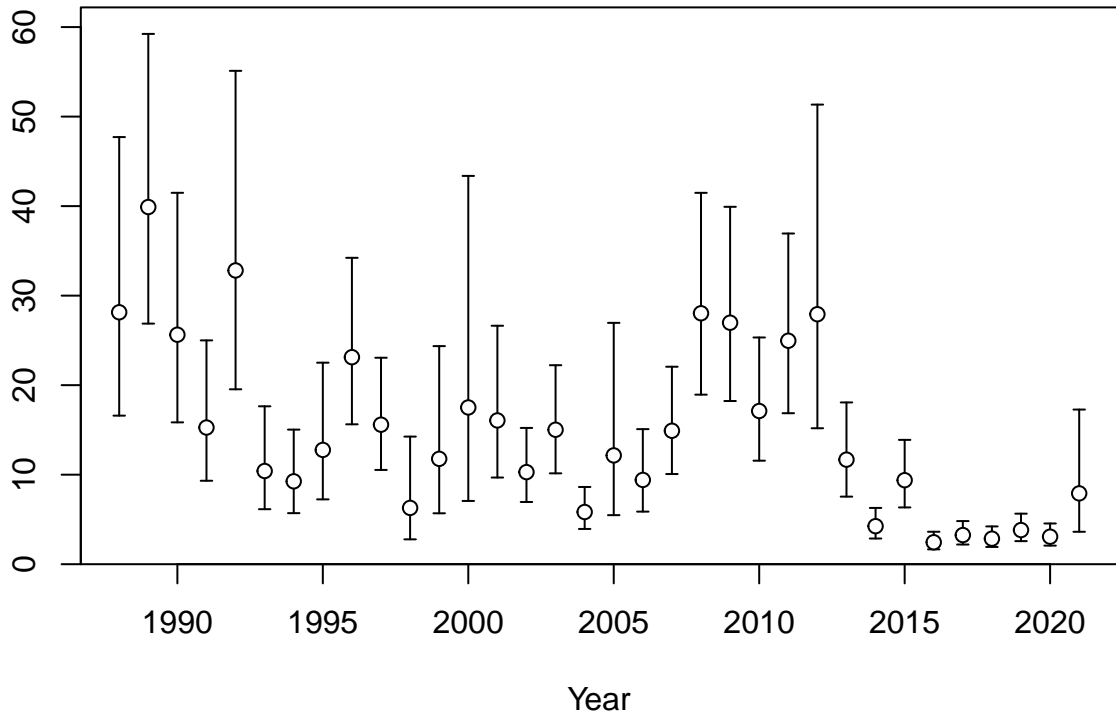


Fishing intensity: 1-SPR

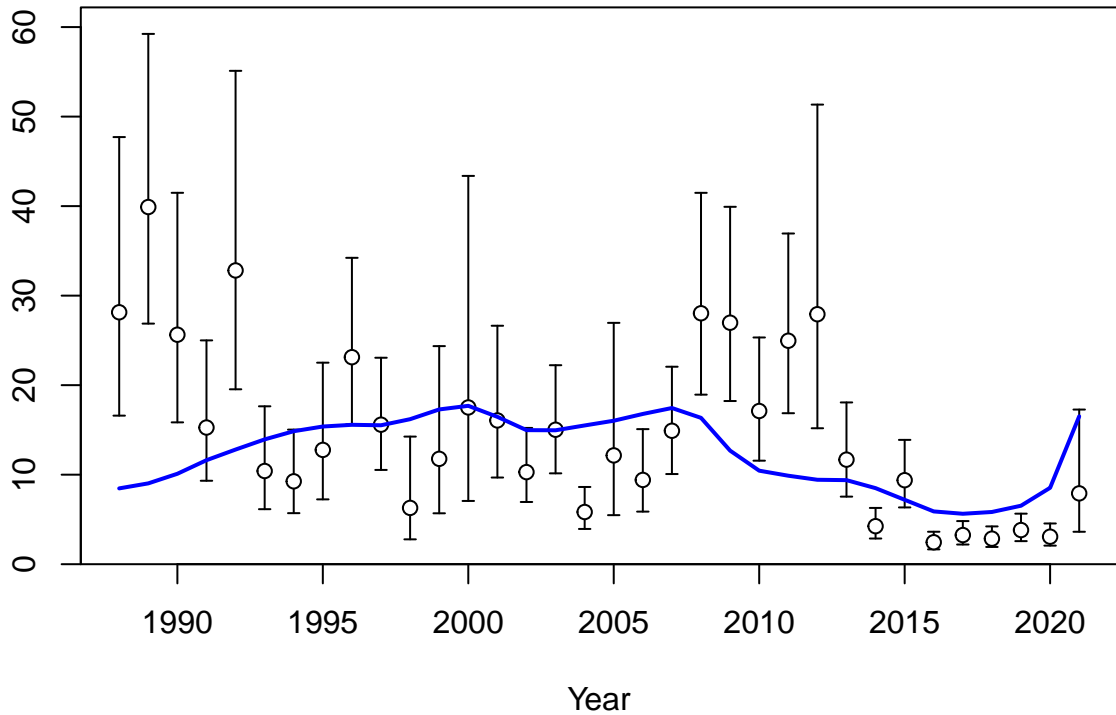


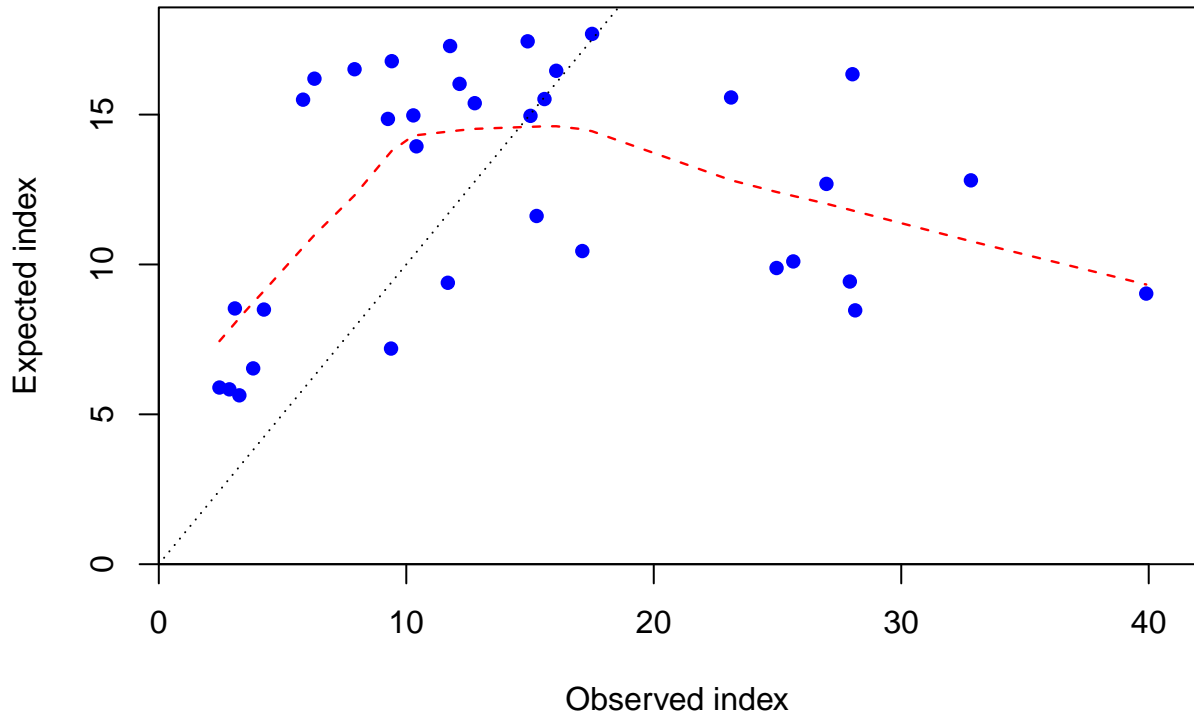


Index

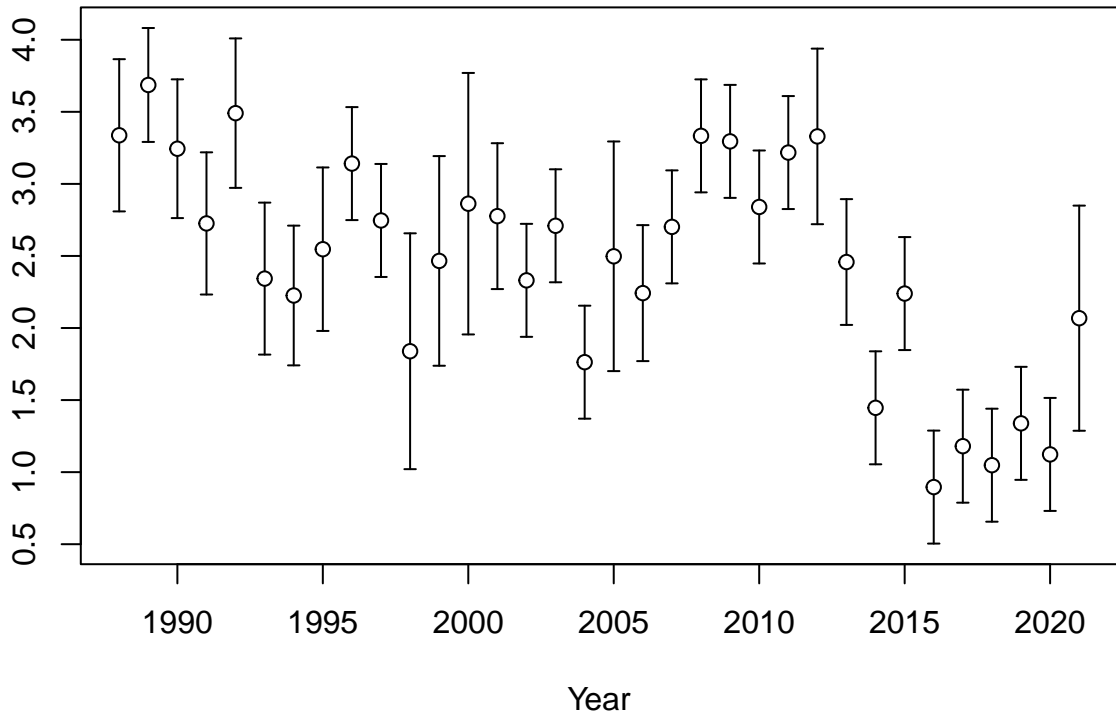


Index

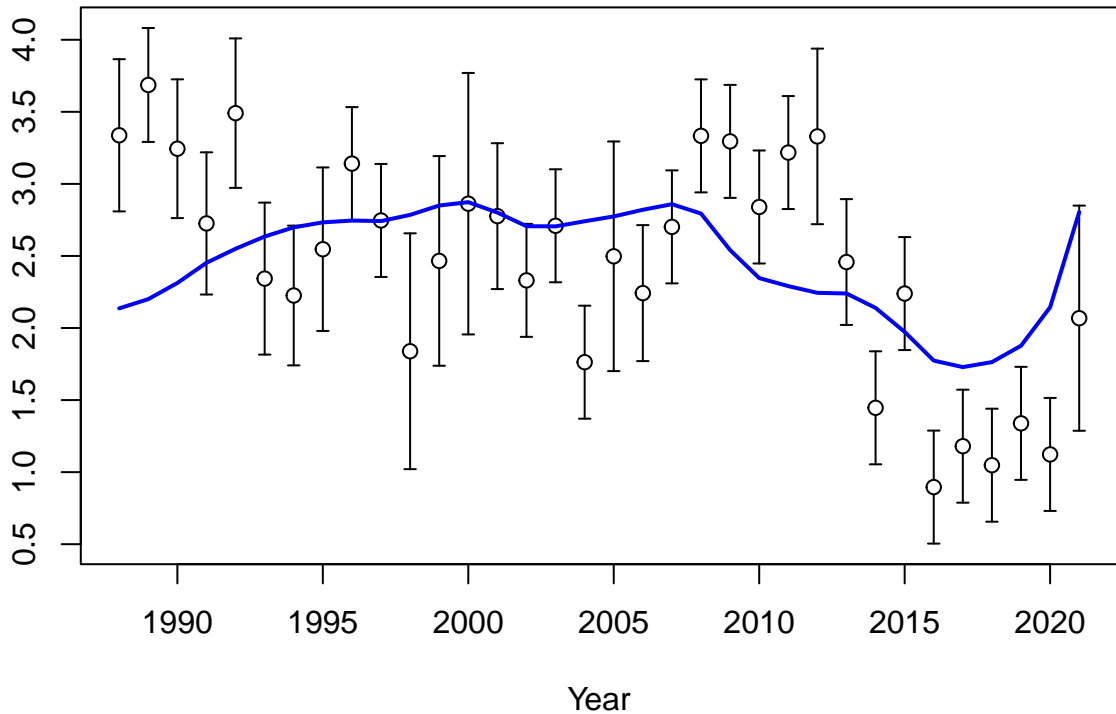


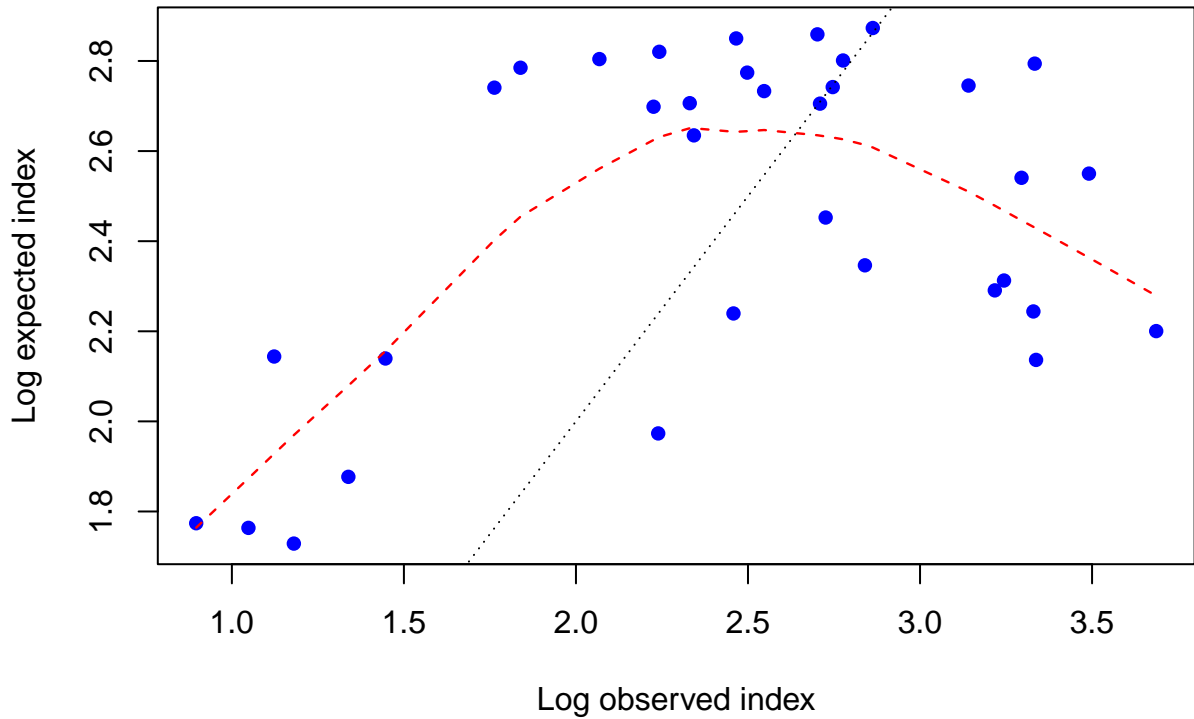


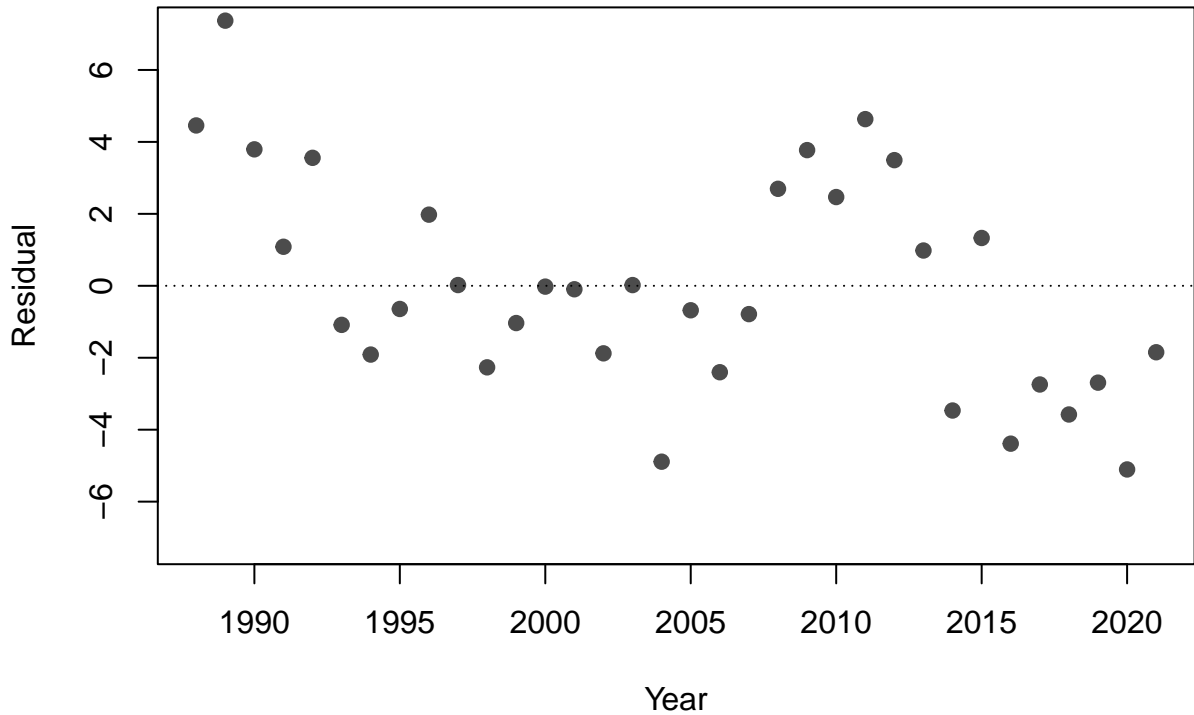
Log index

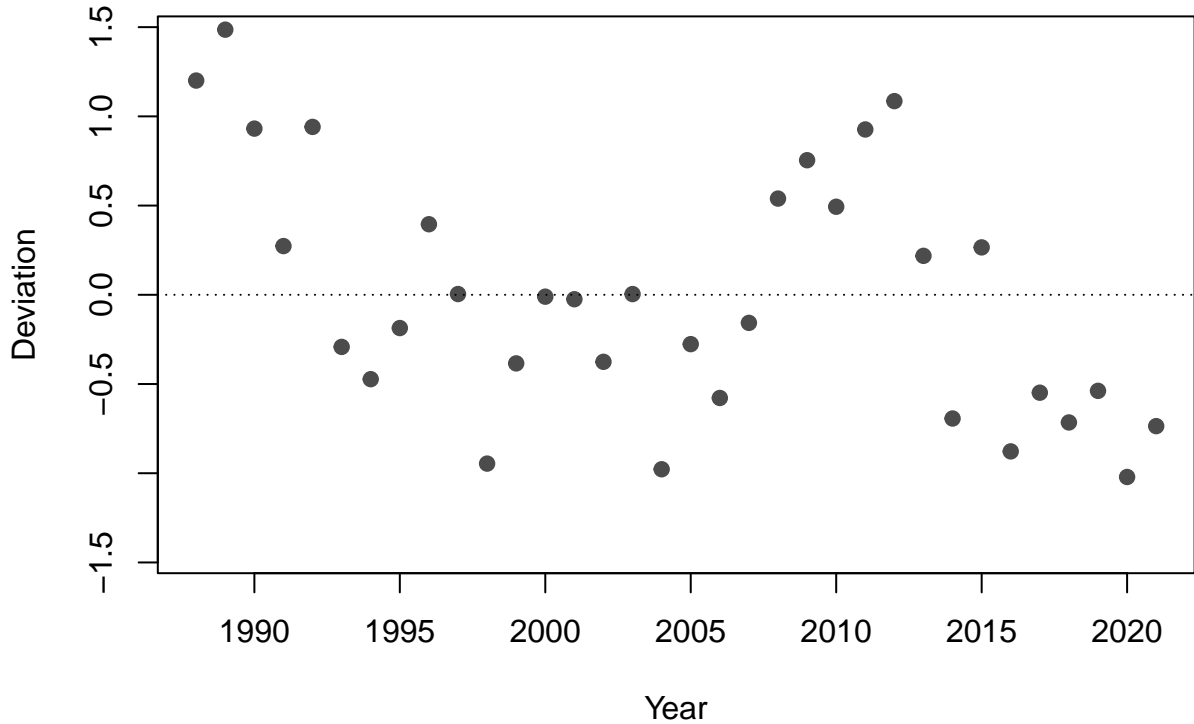


Log index

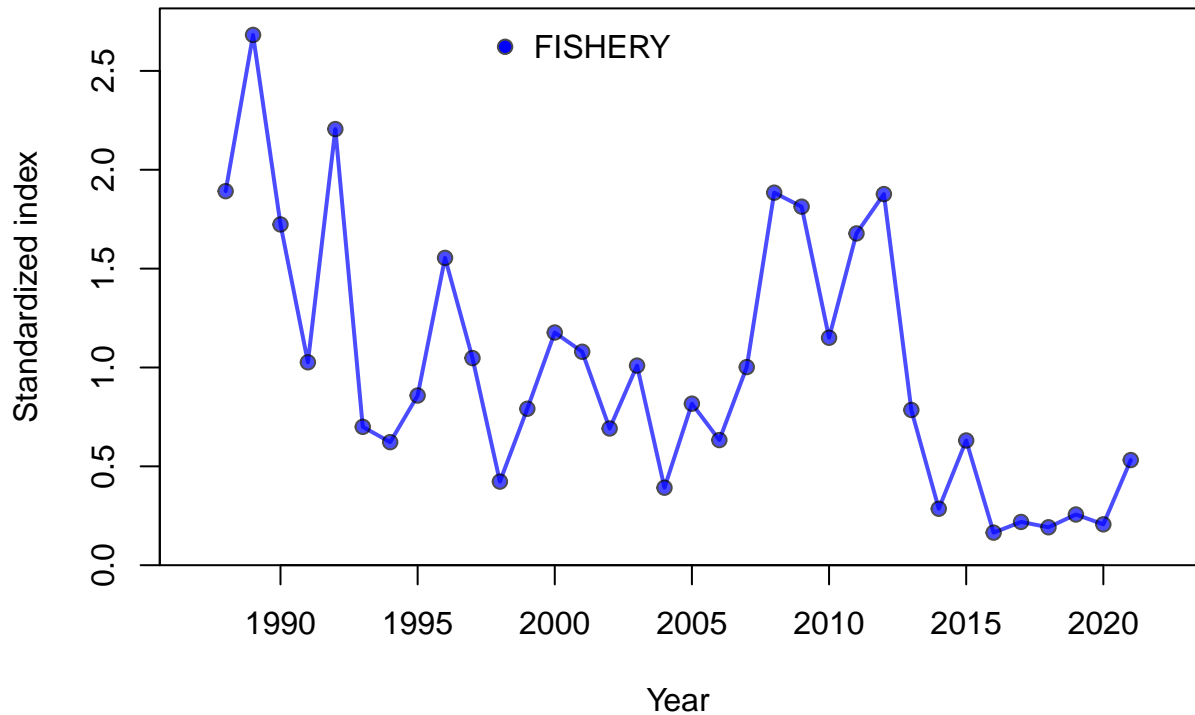




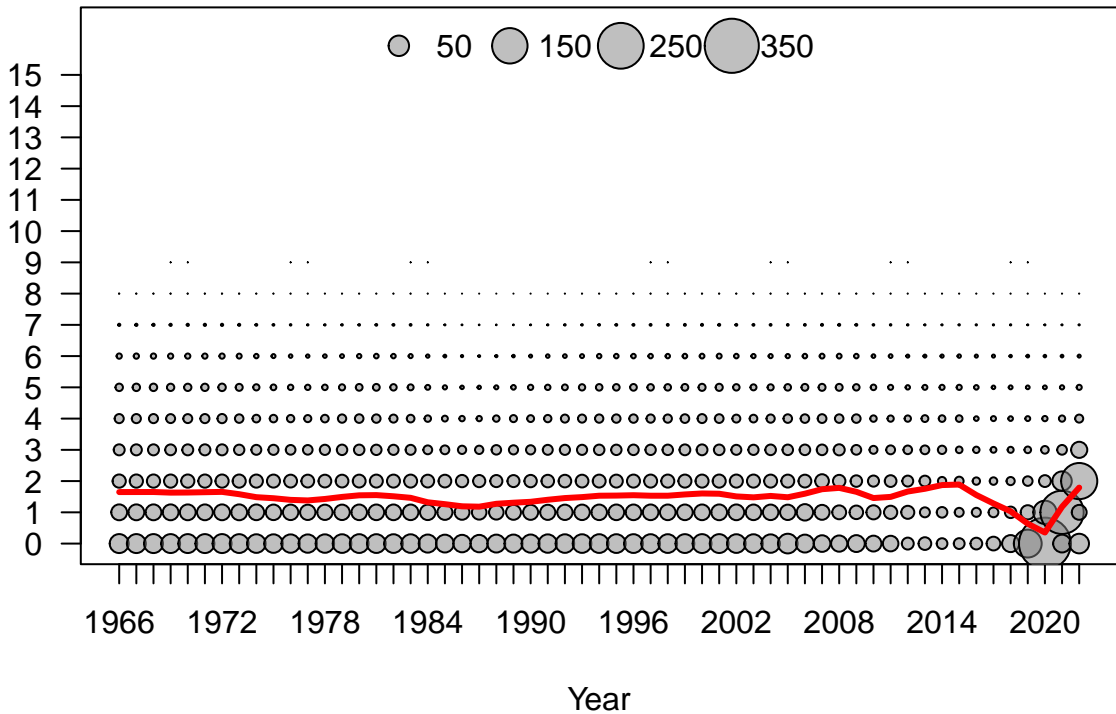


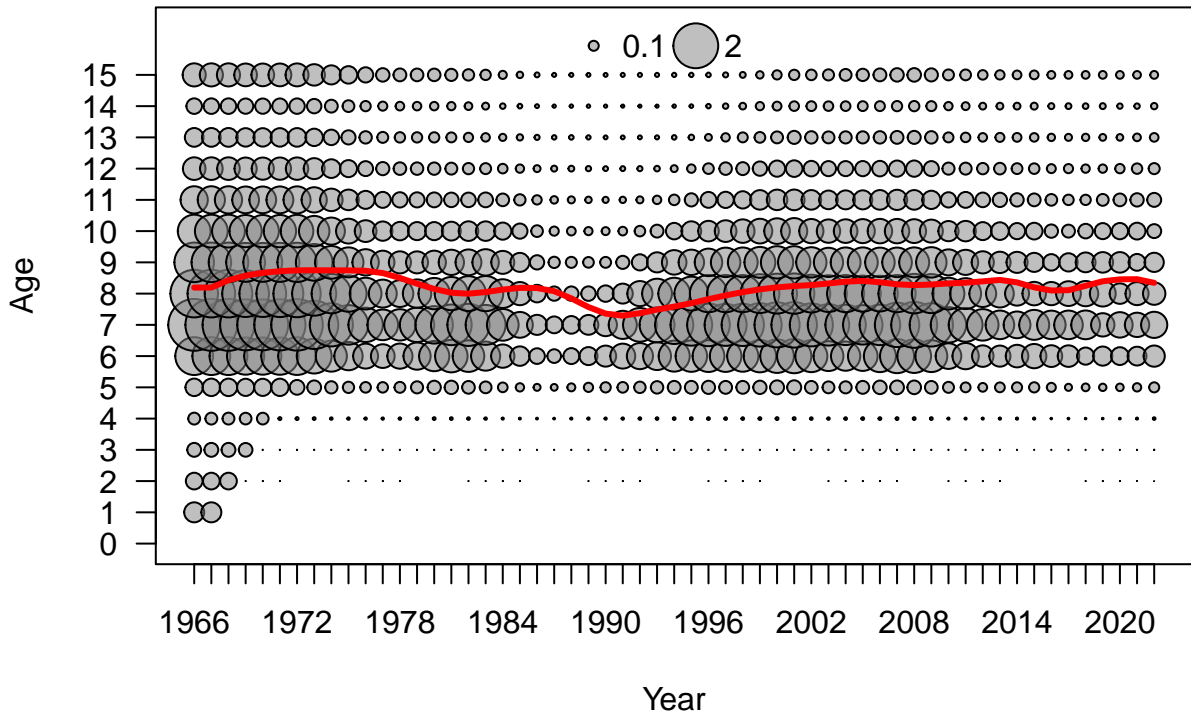


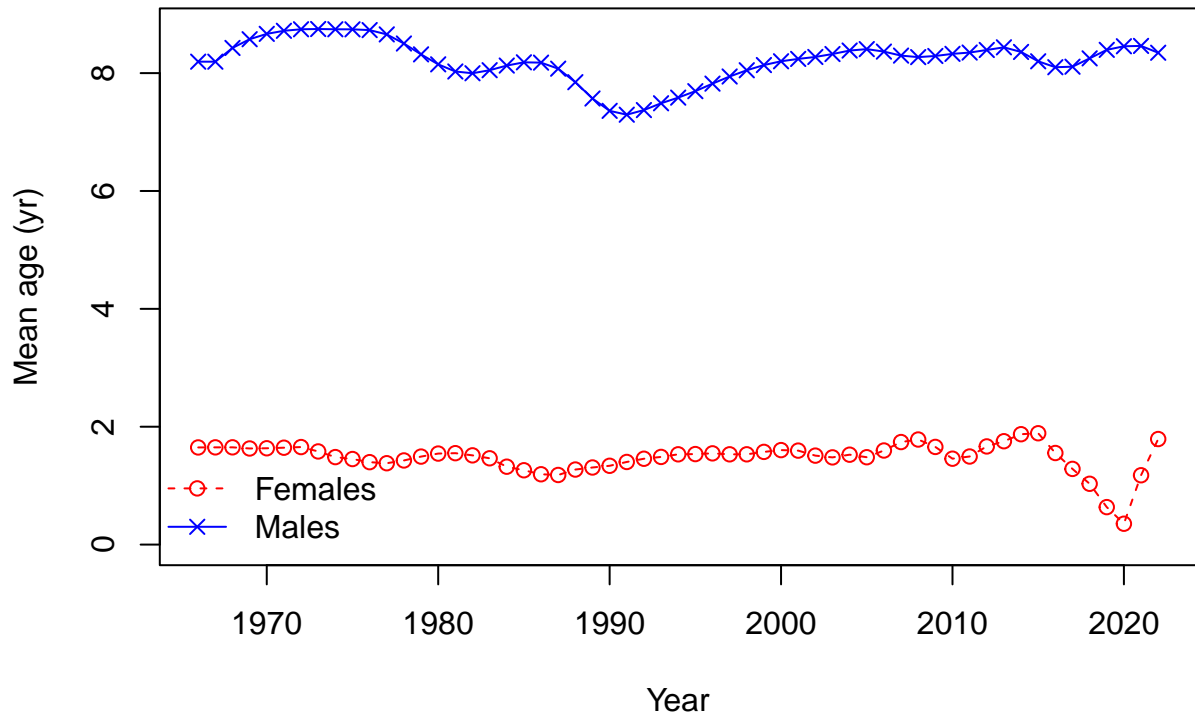




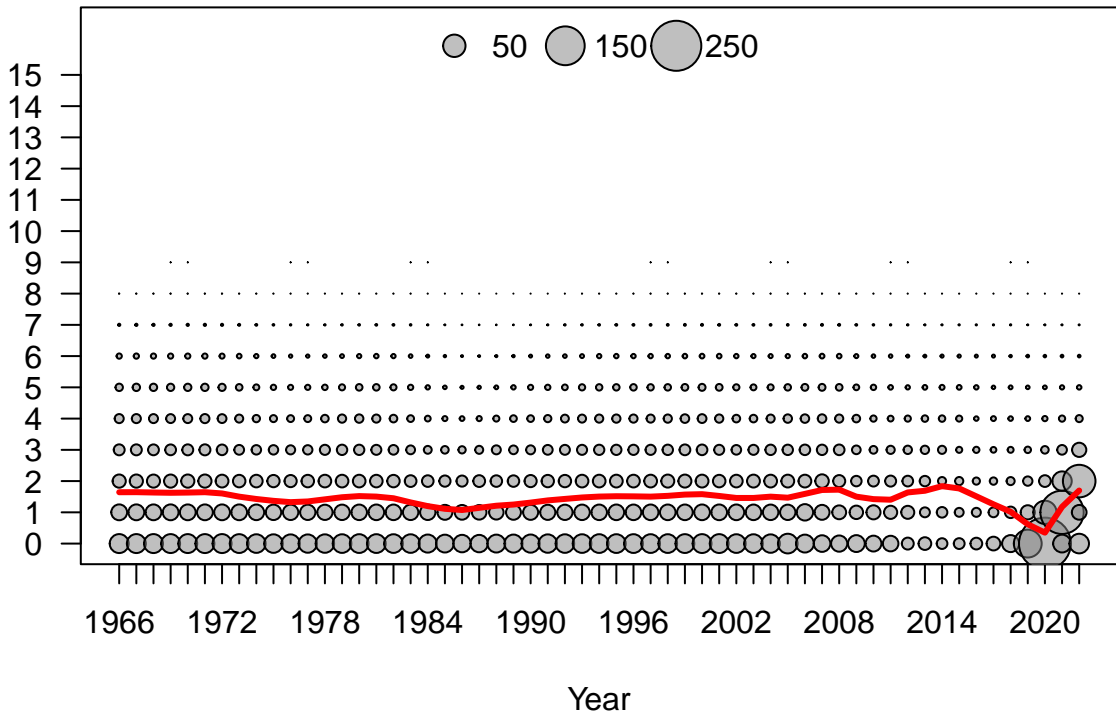
Age

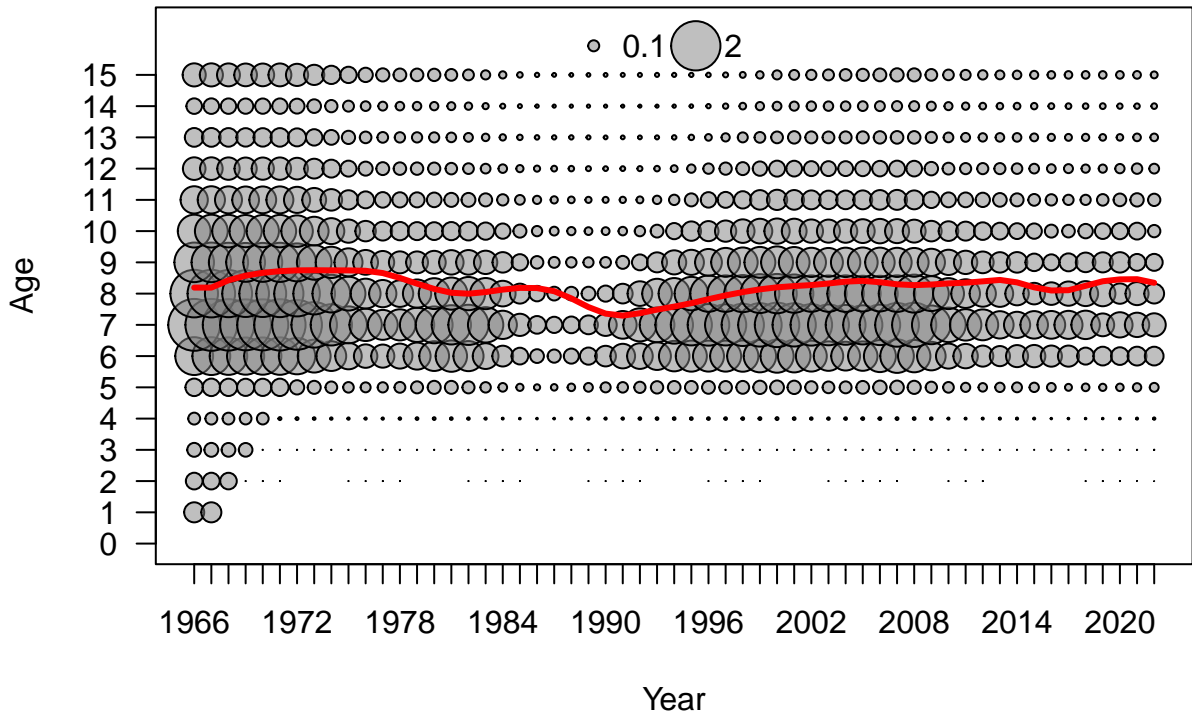


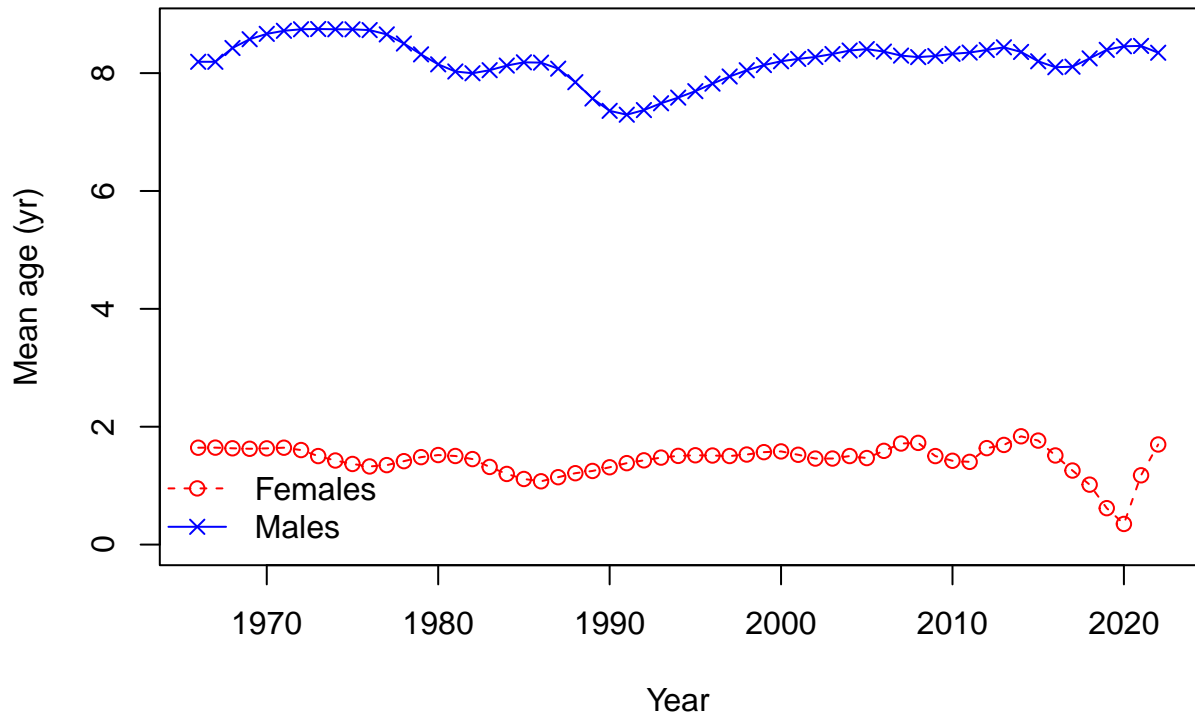




Age







Age

14  
12  
10  
8  
6  
4  
2  
0

1970

1980

1990

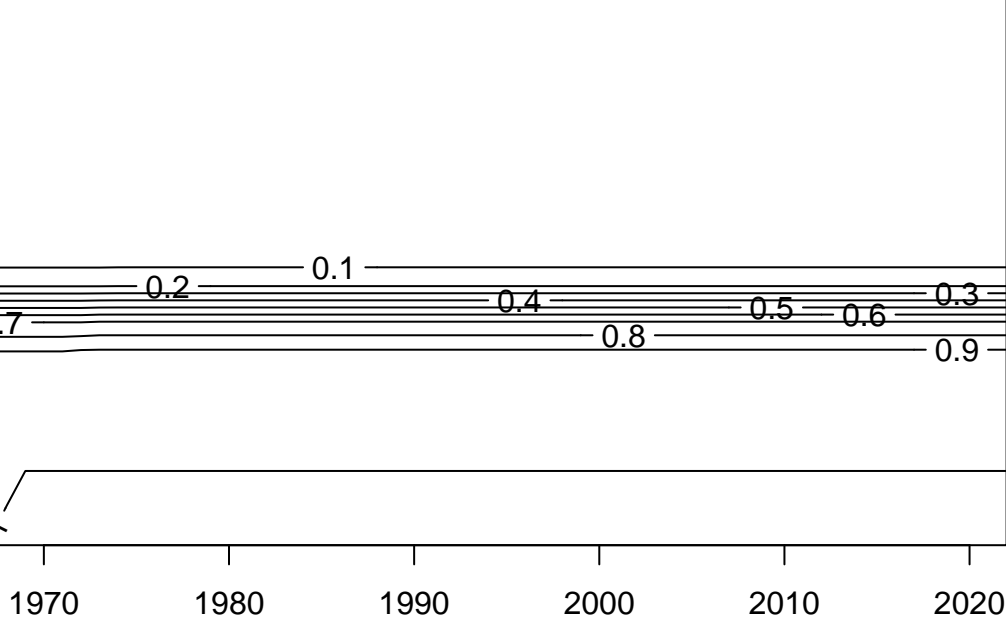
2000

2010

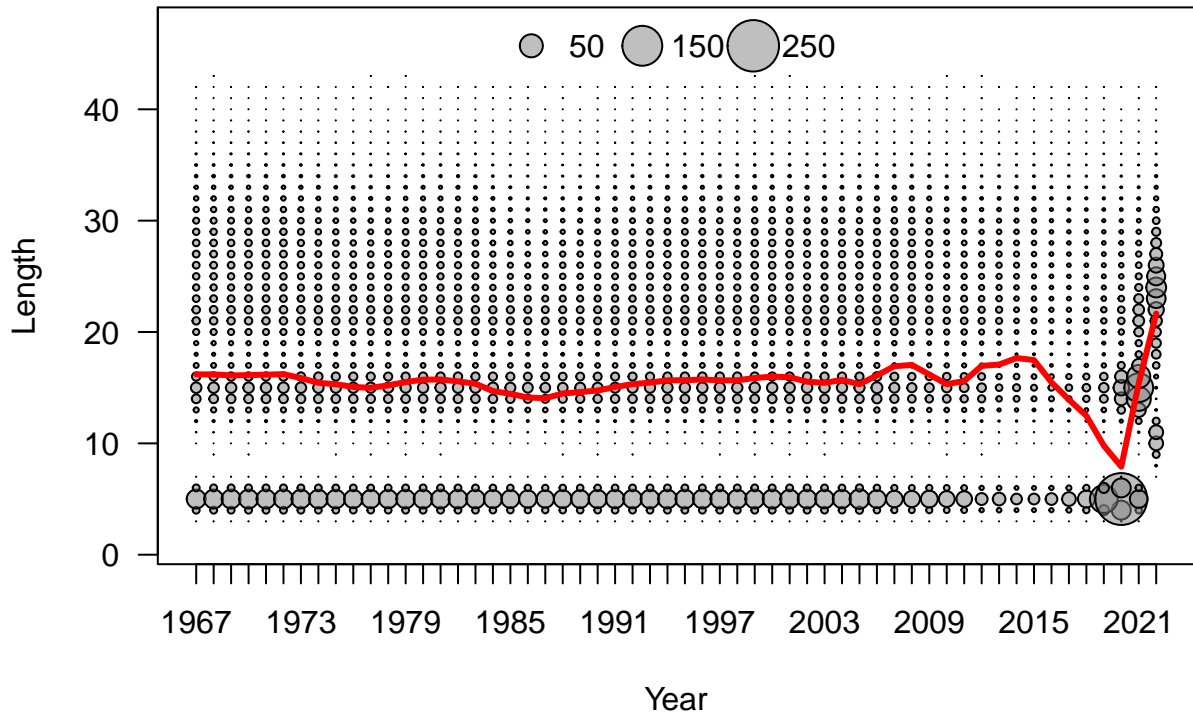
2020

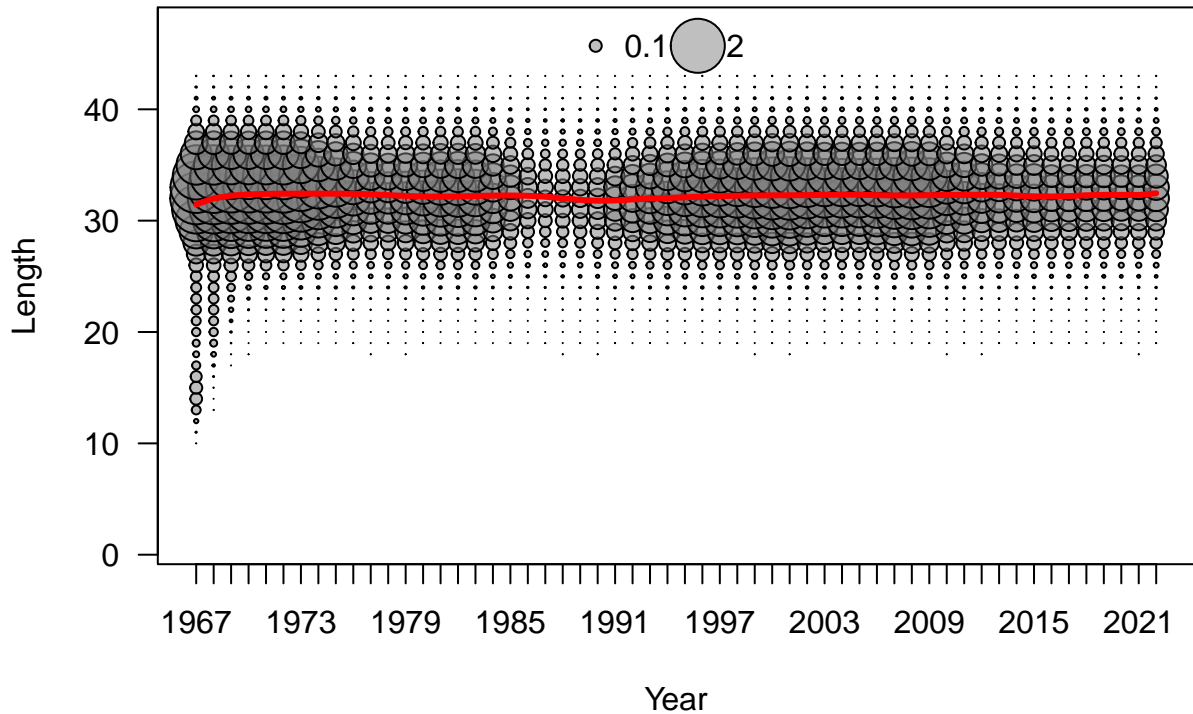
Year

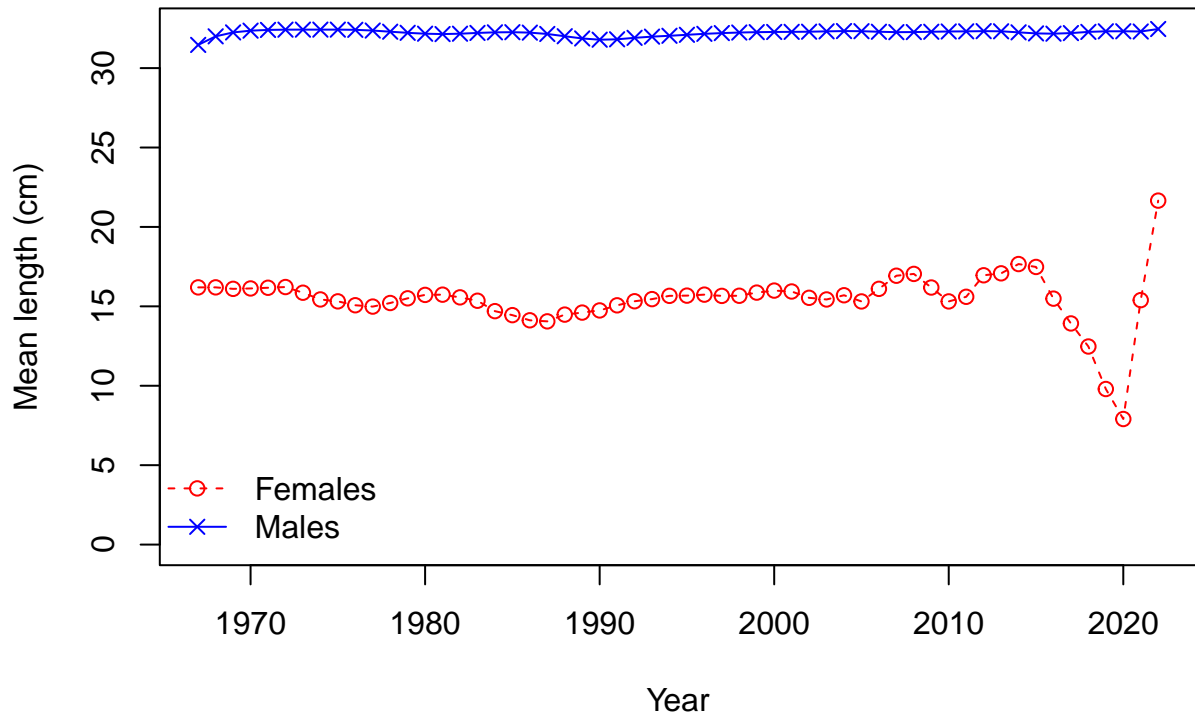
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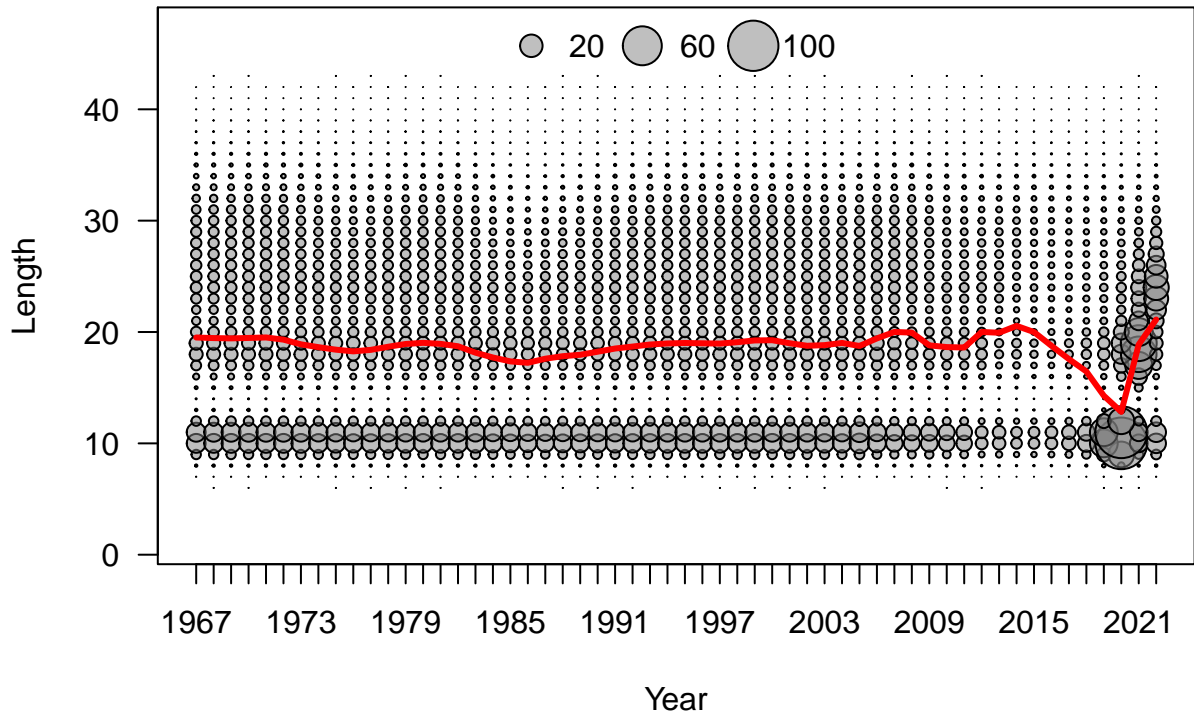


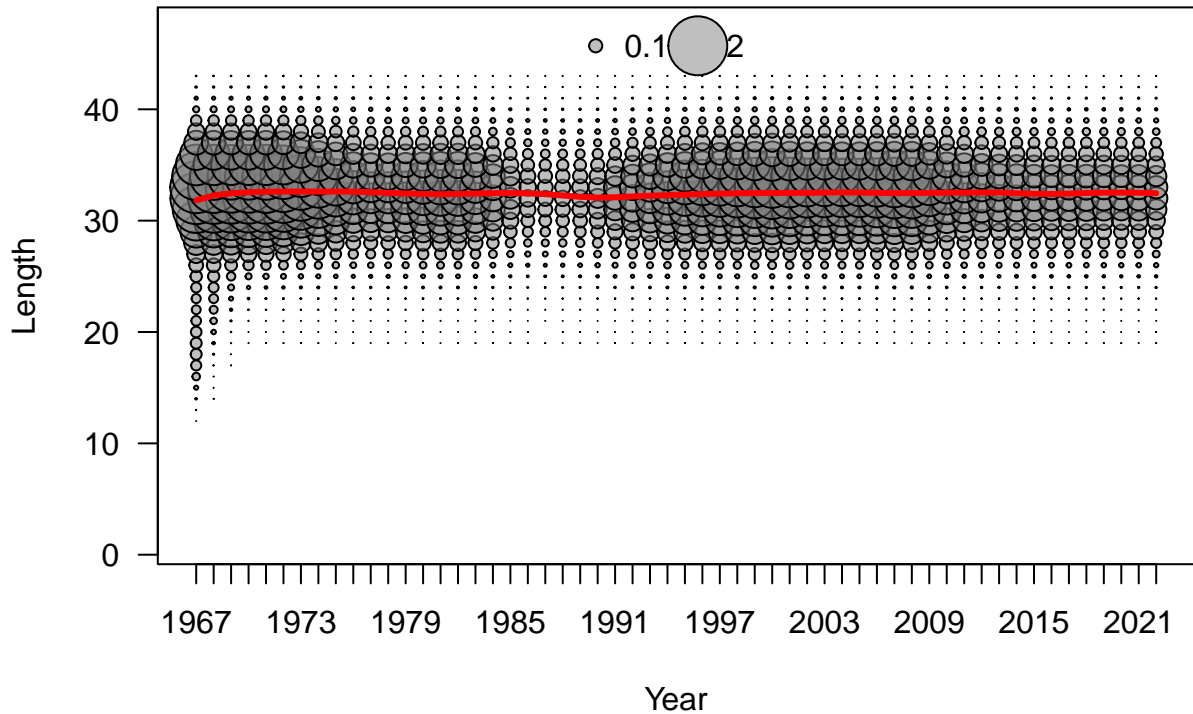


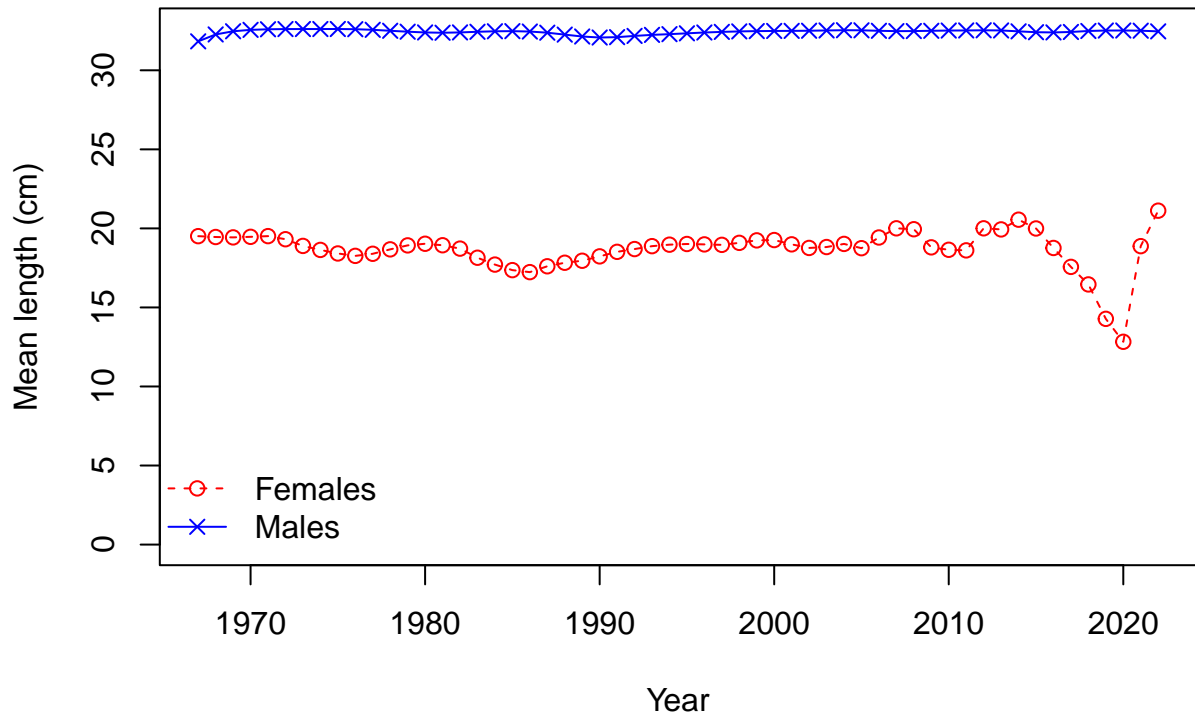




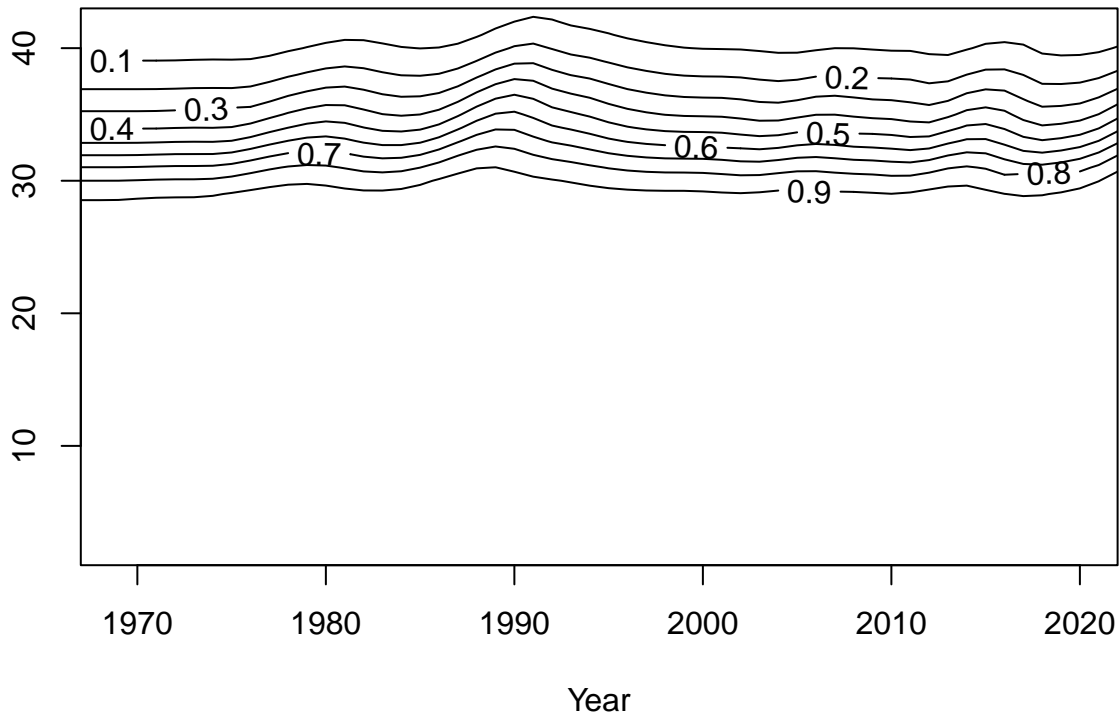


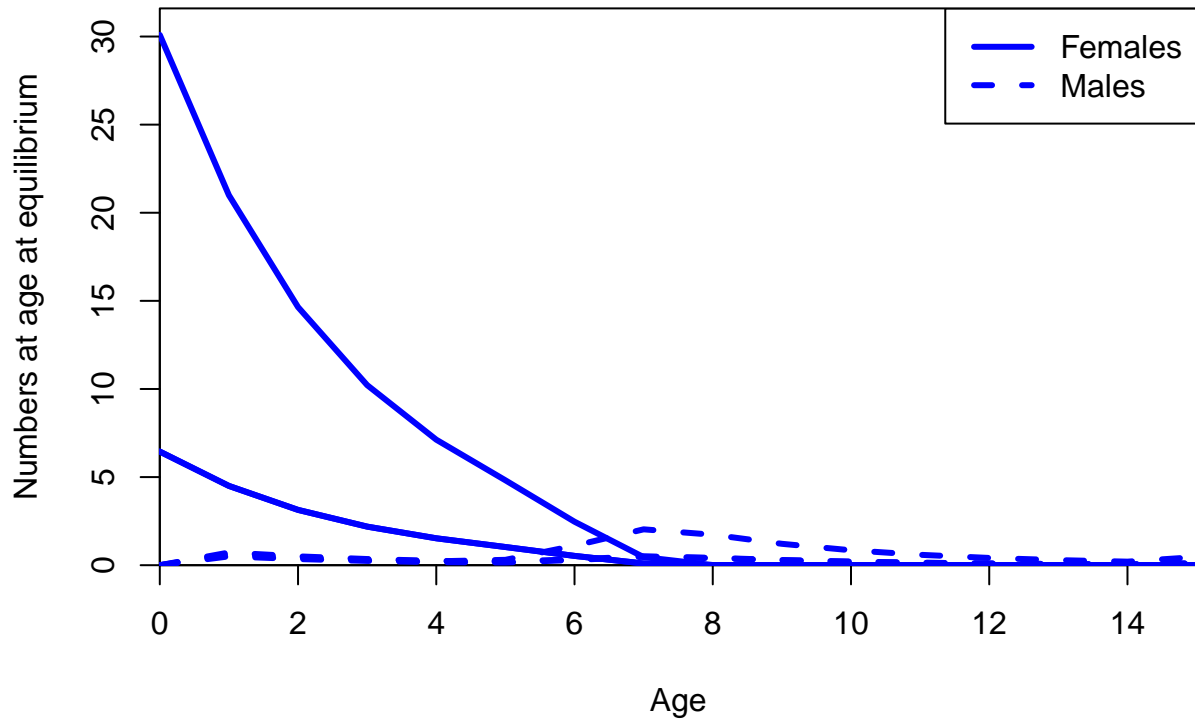




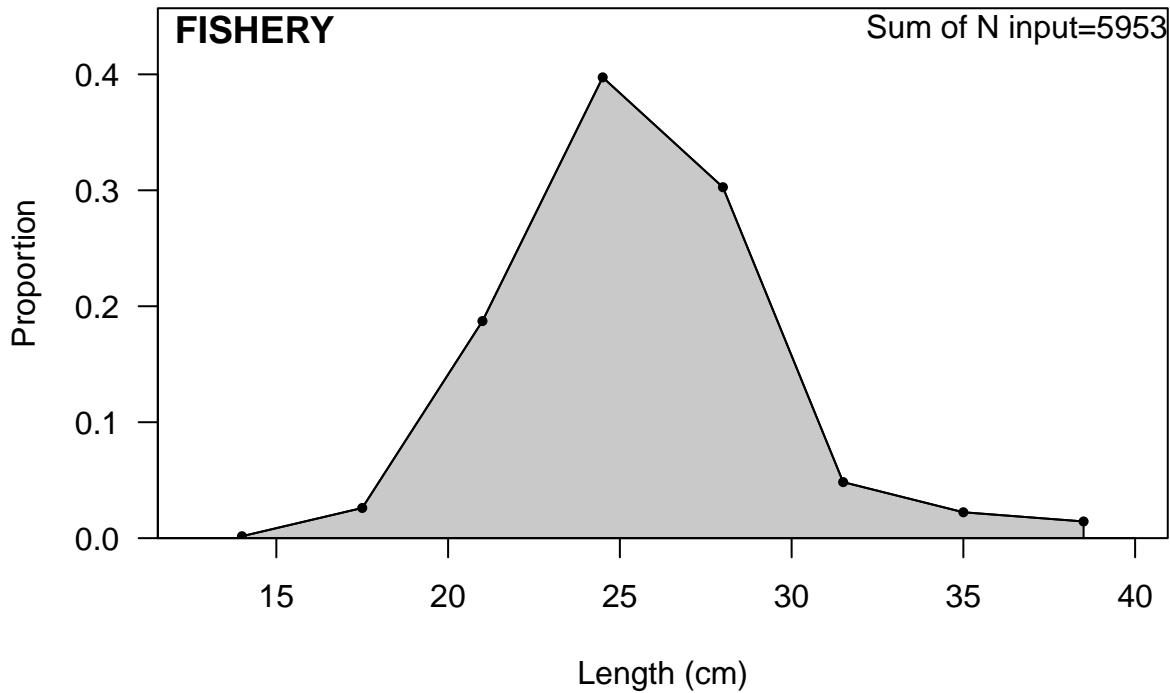


Length



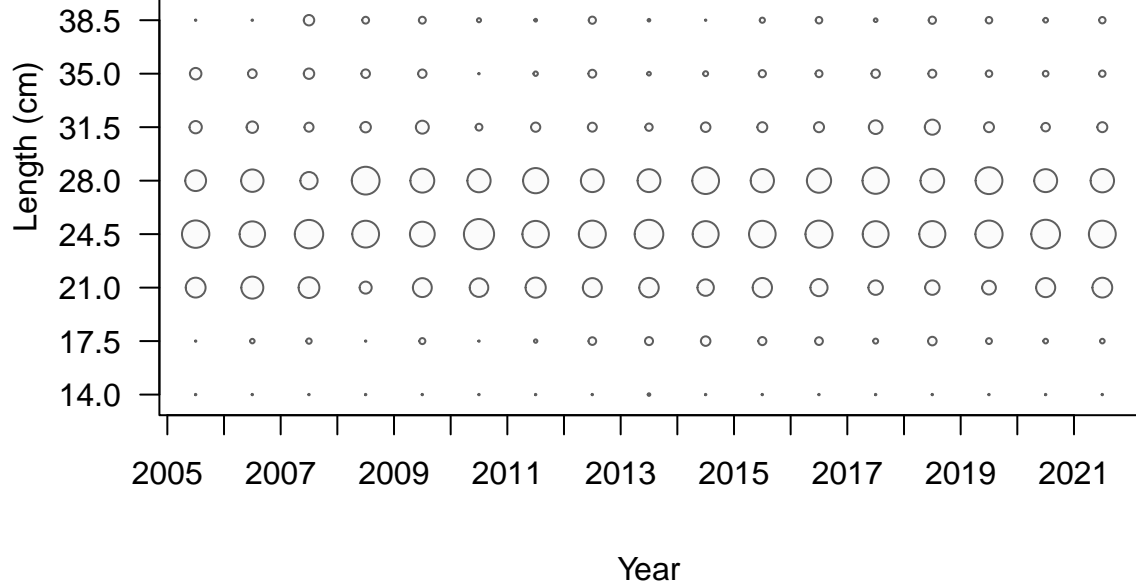




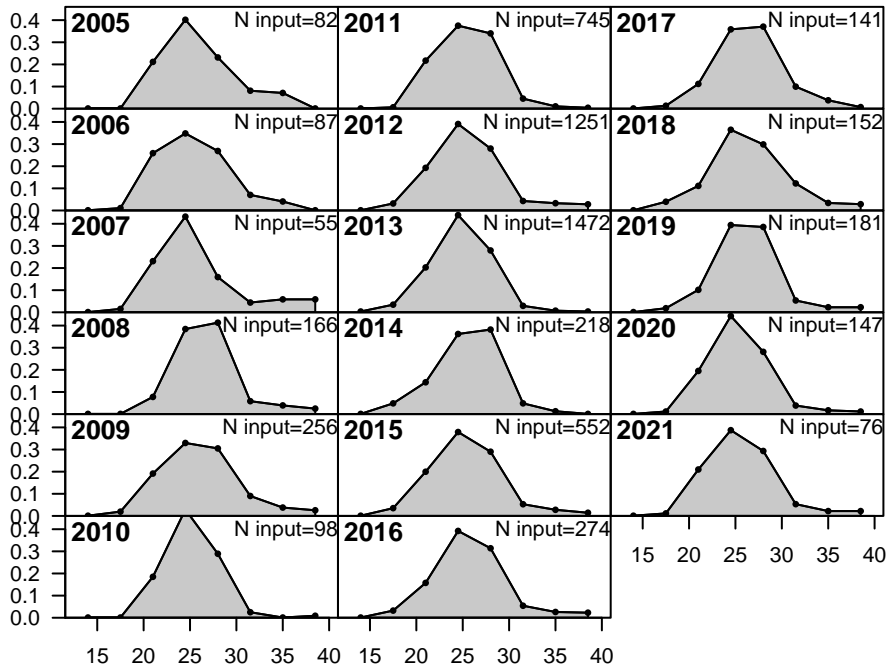


# FISHERY

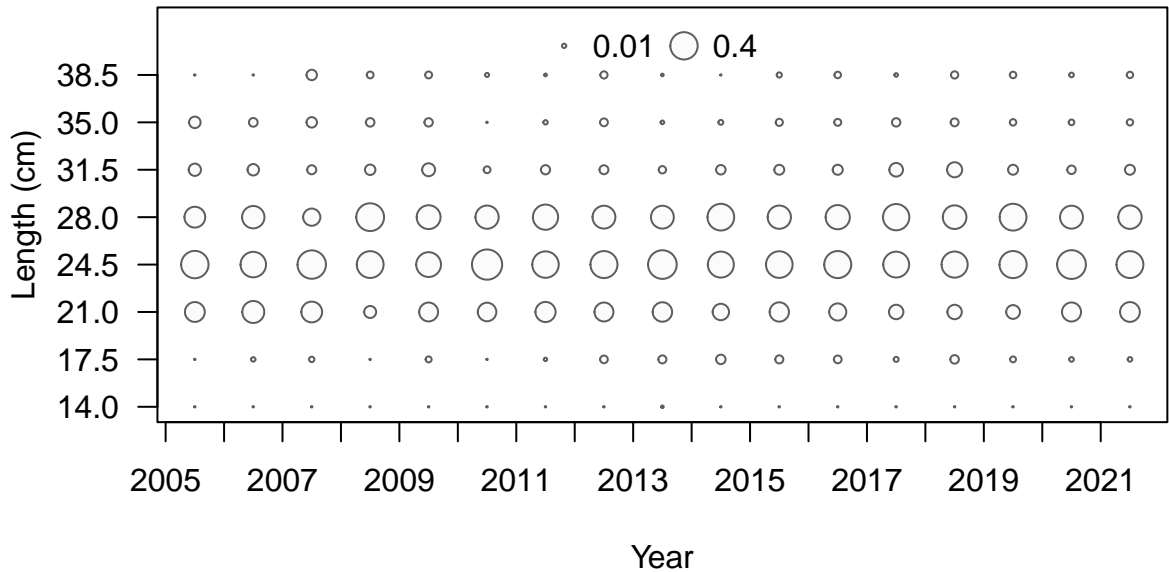
◦ 0.01 ○ 0.4



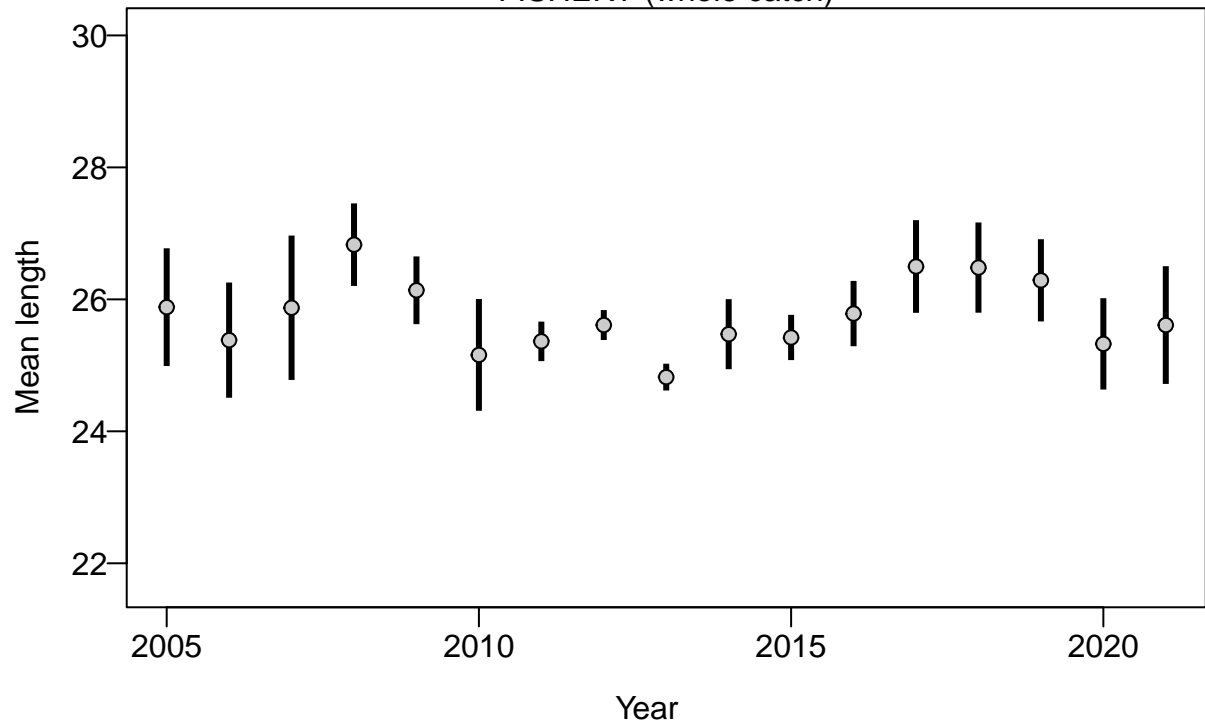
Proportion

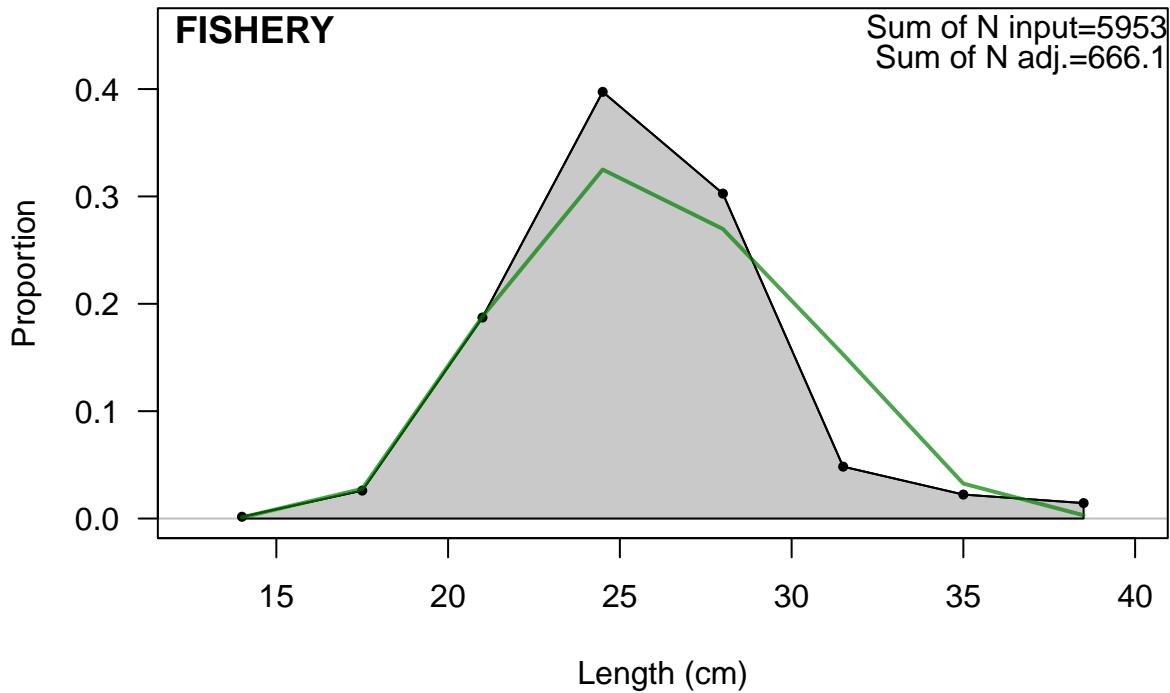


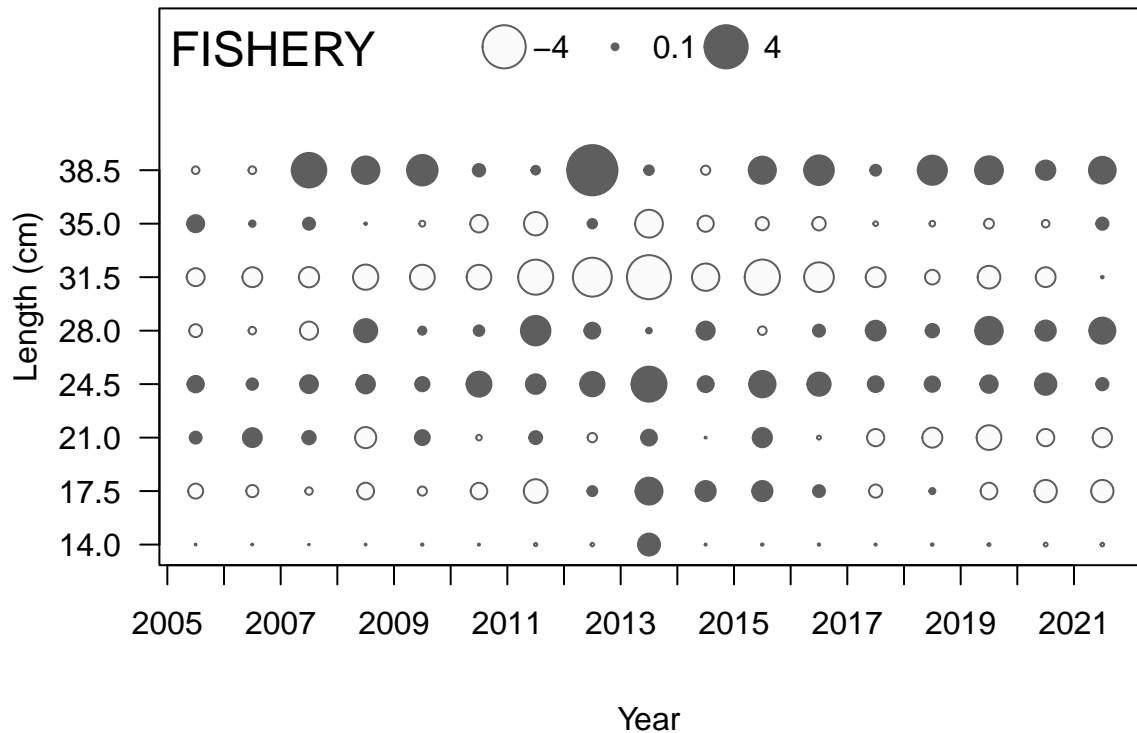
Length (cm)



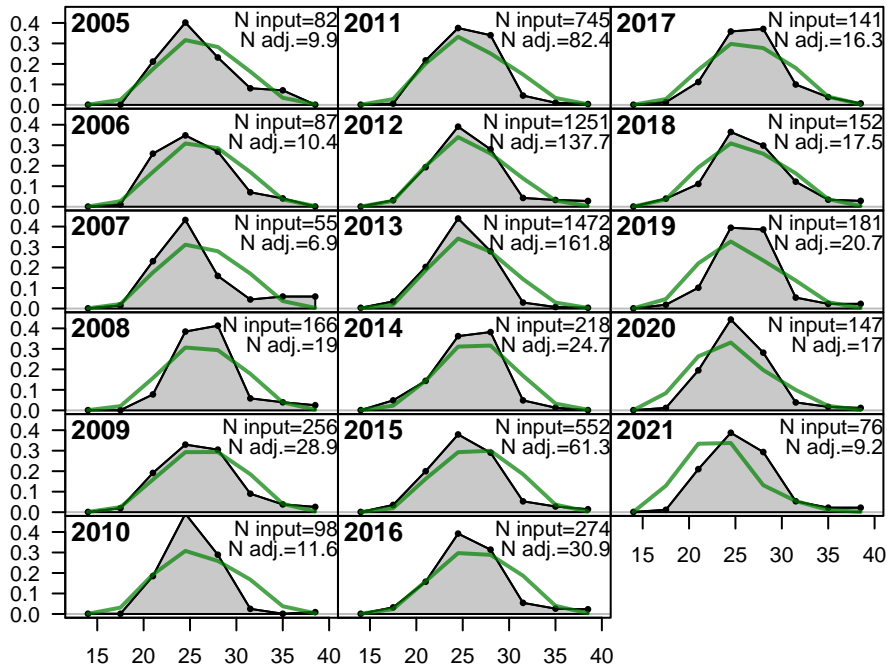
FISHERY (whole catch)





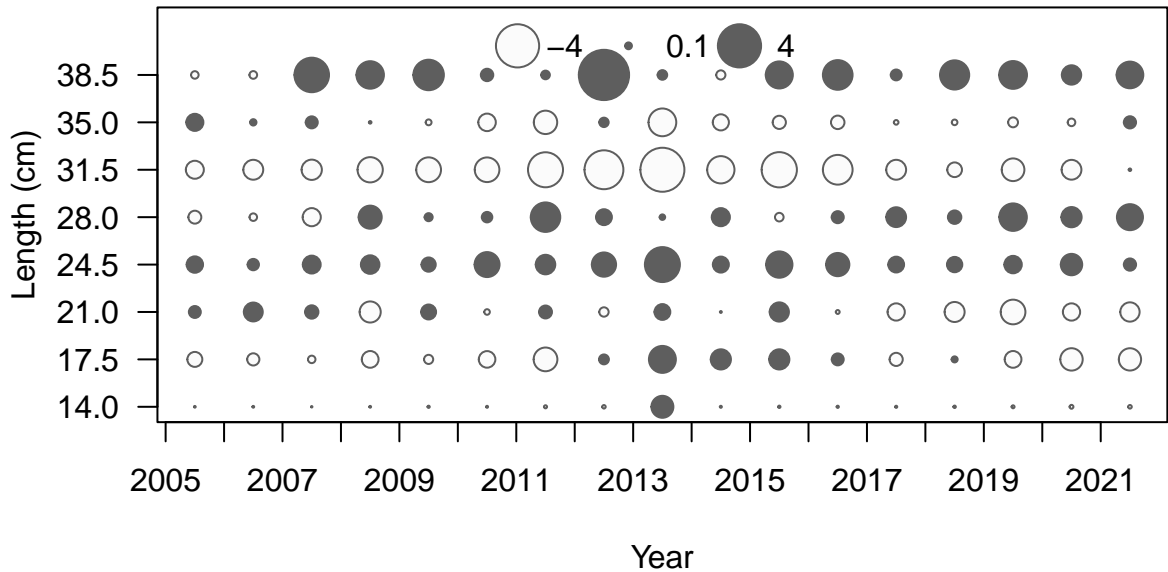


Proportion

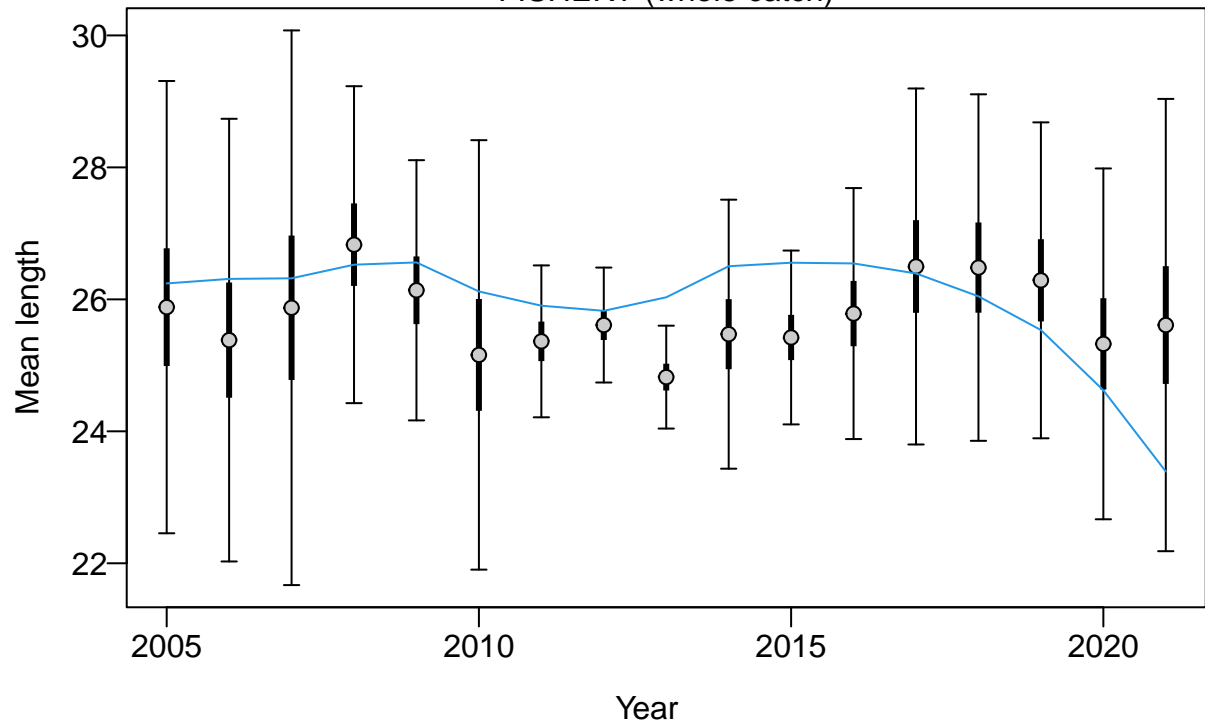


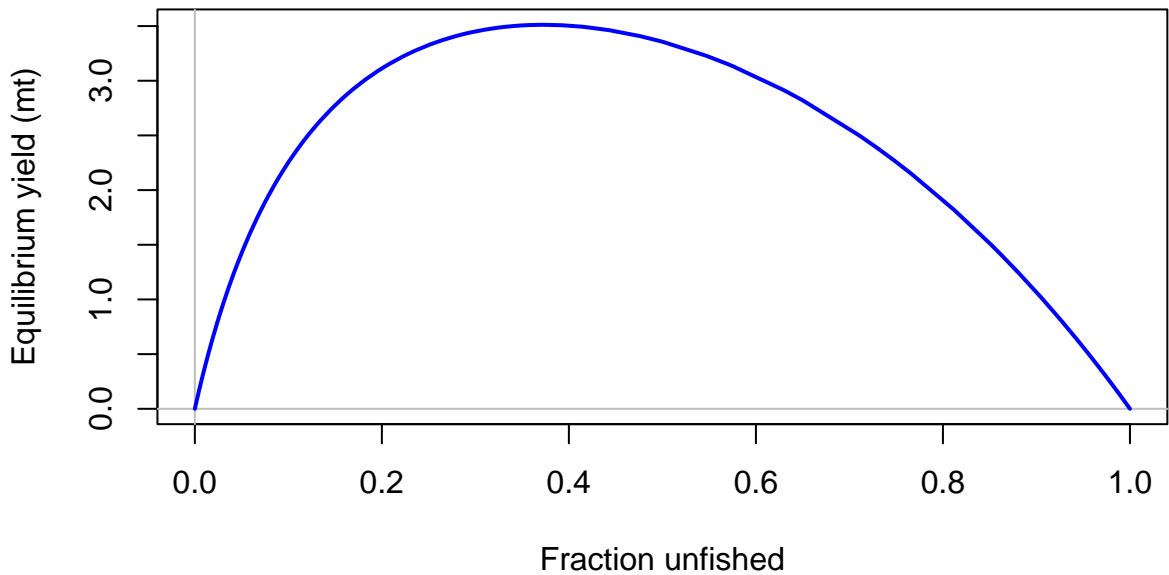
Length (cm)

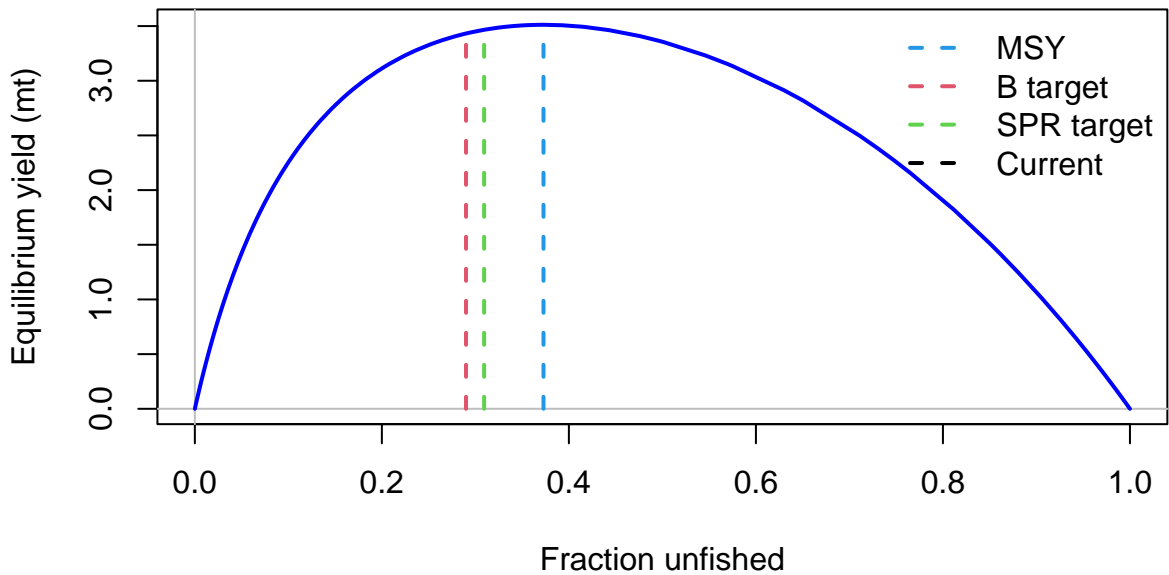


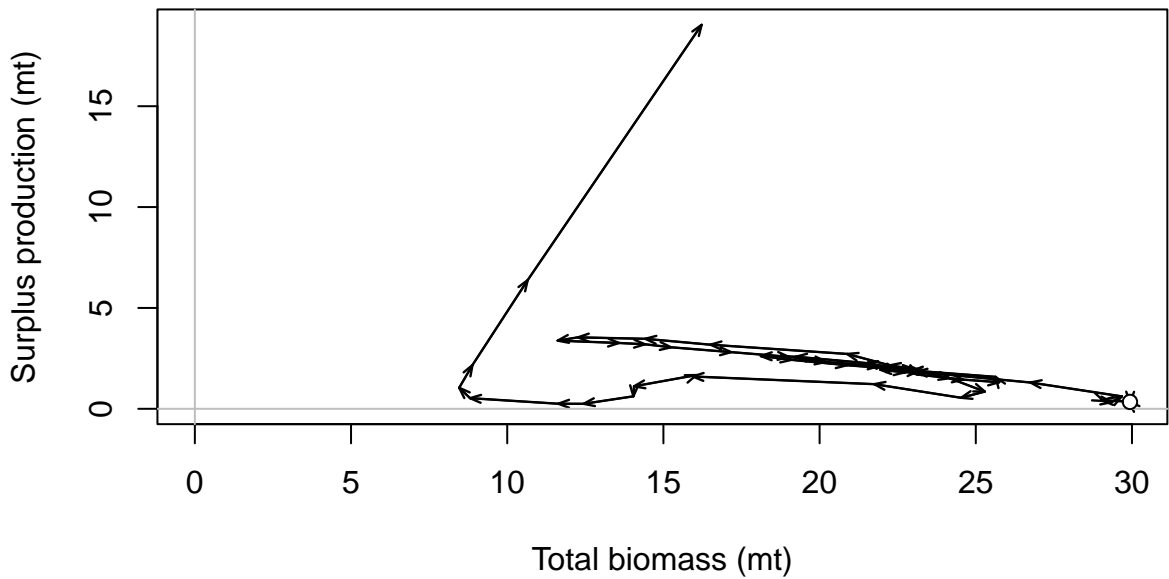


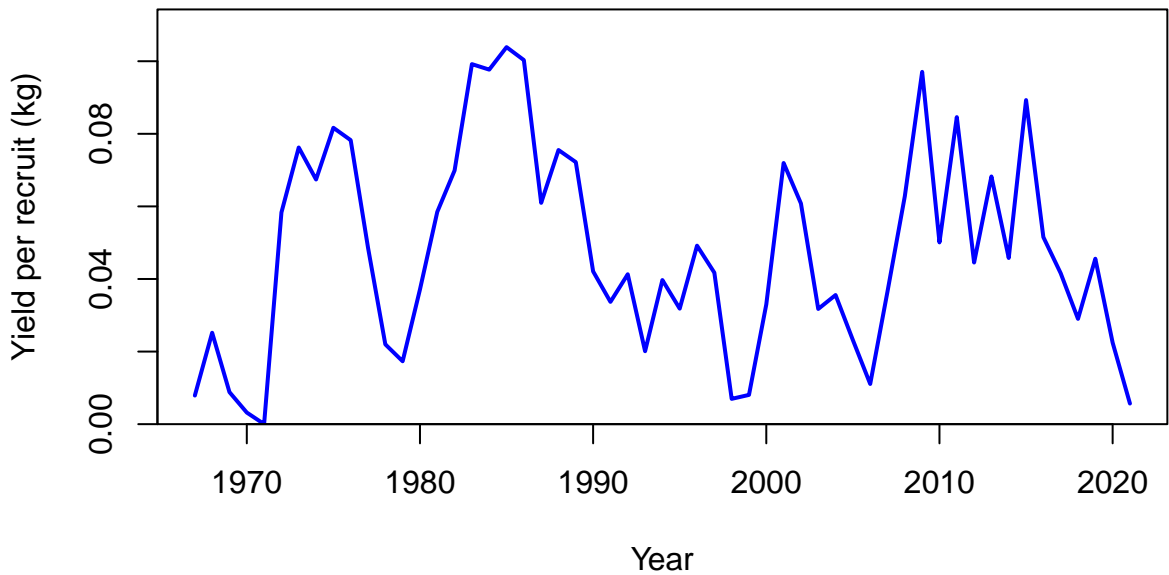
FISHERY (whole catch)

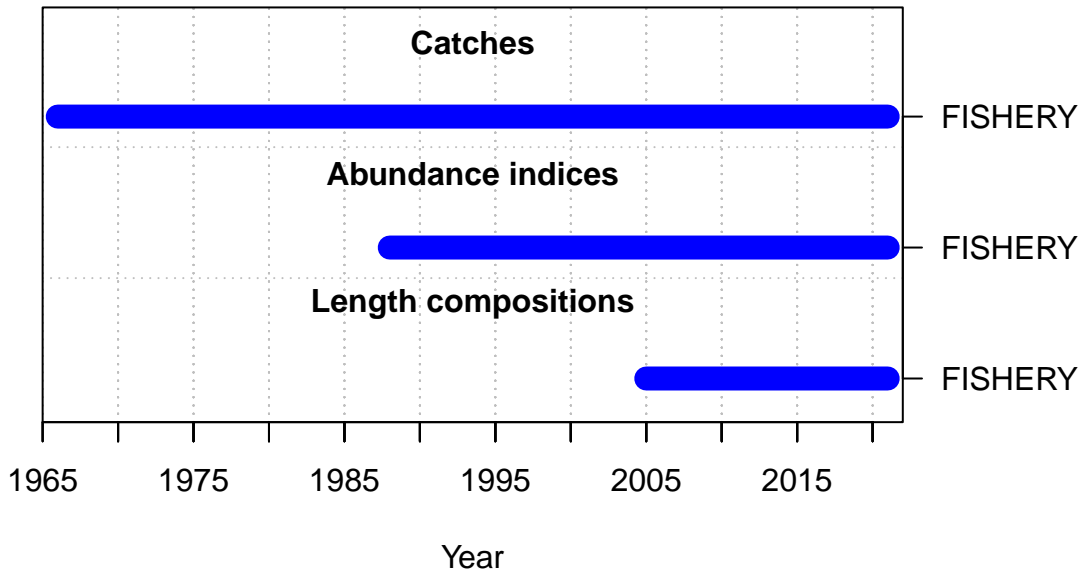


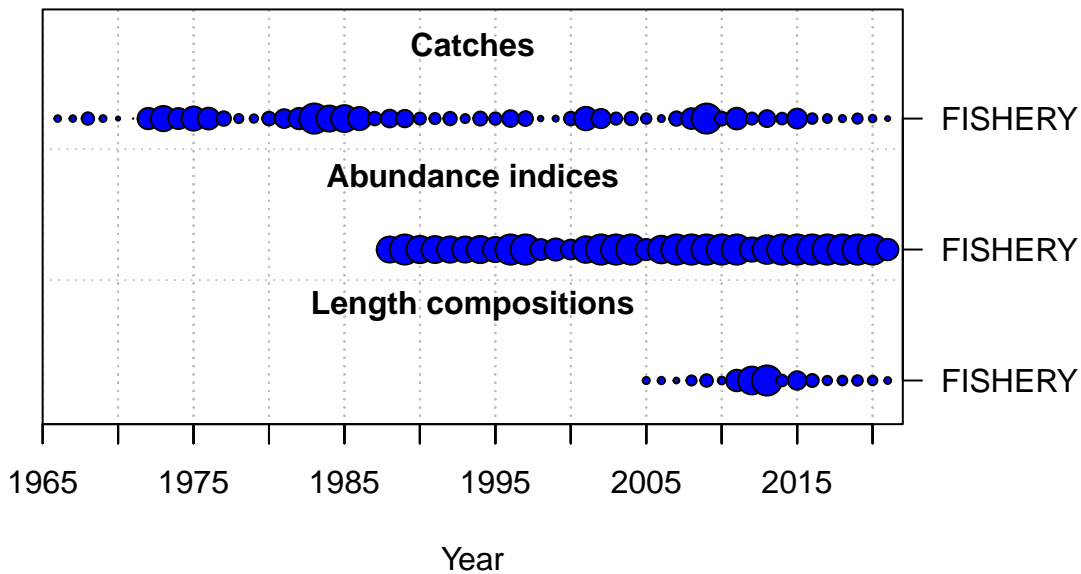






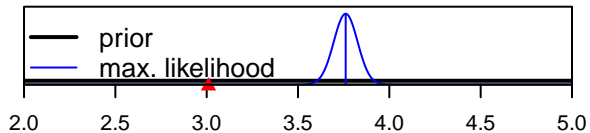




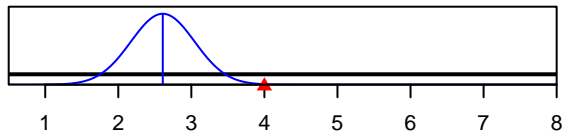




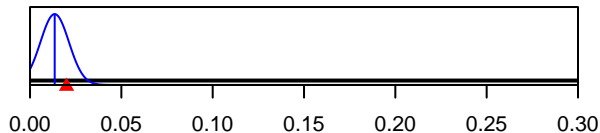
SR\_LN(R0)



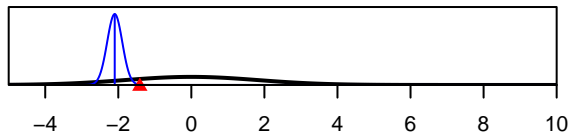
Size\_95%width\_FISHERY(1)



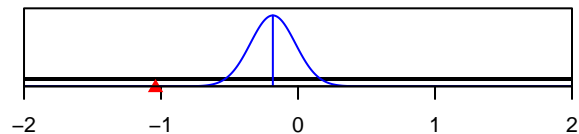
InitF\_seas\_1flt\_1FISHERY



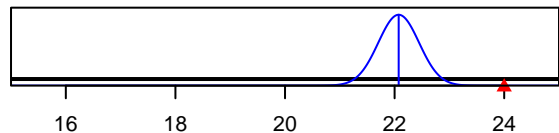
ln(DM\_theta)\_1



LnQ\_base\_FISHERY(1)



Size\_inflection\_FISHERY(1)



Parameter value