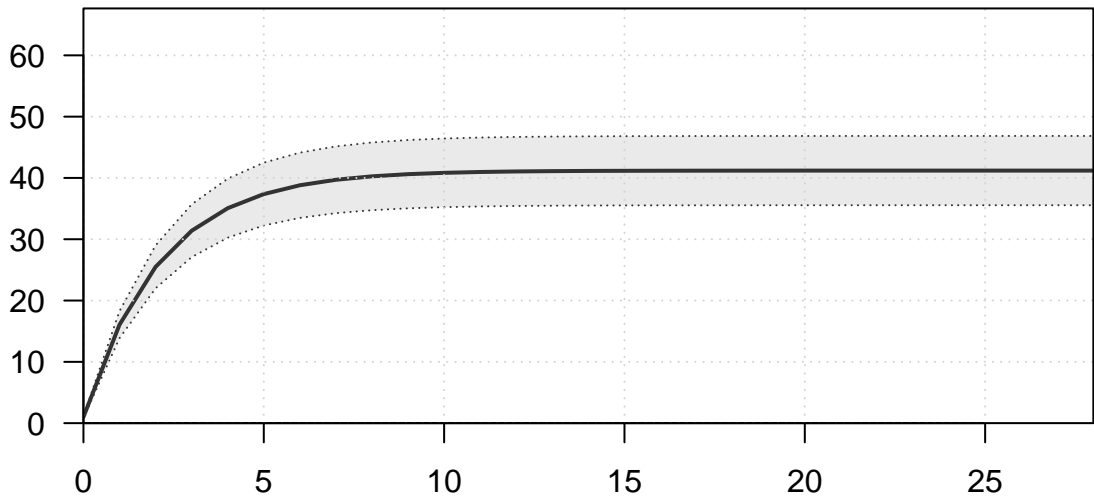
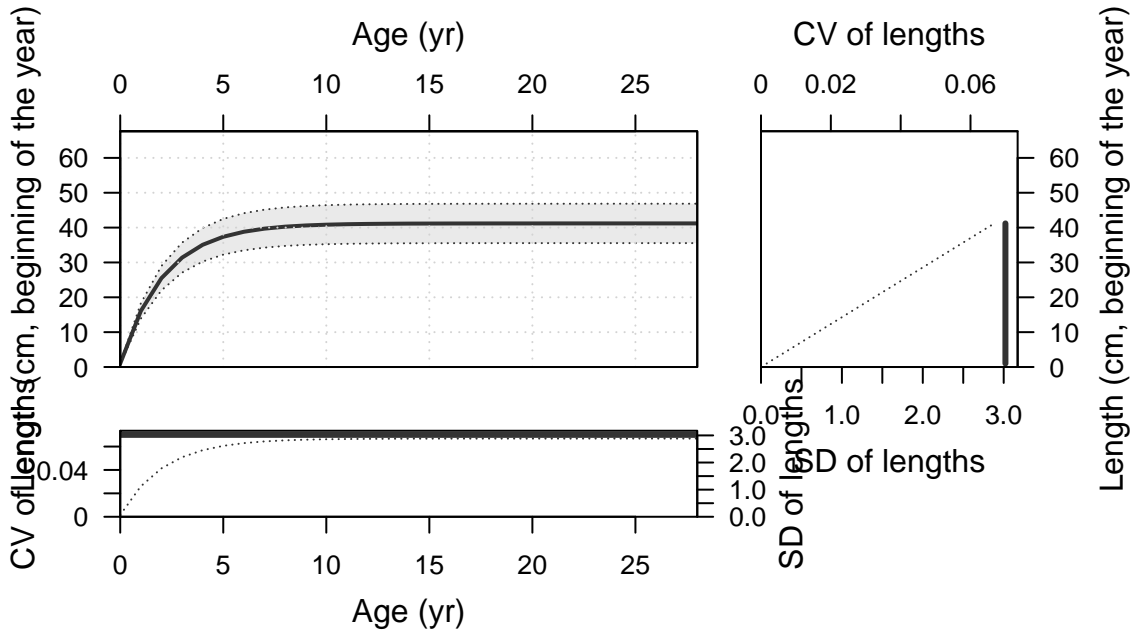


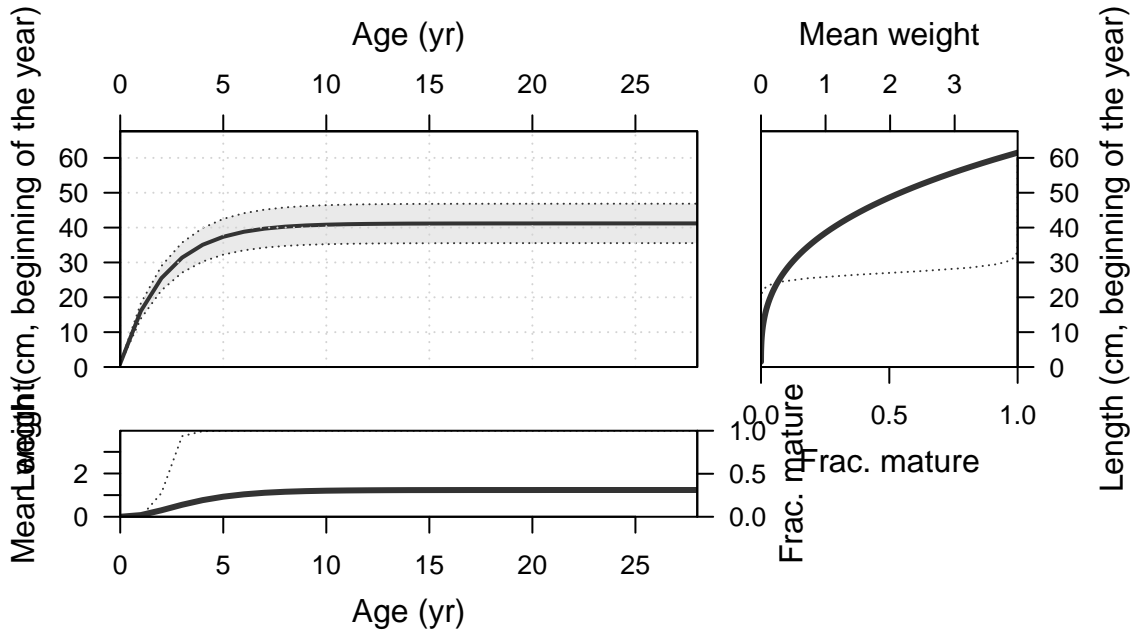
Plots created using the 'r4ss' package in R  
Stock Synthesis version: 3.30.19.0  
StartTime: Thu Jul 28 10:48:44 2022  
Data\_File: data.ss  
Control\_File: control.ss

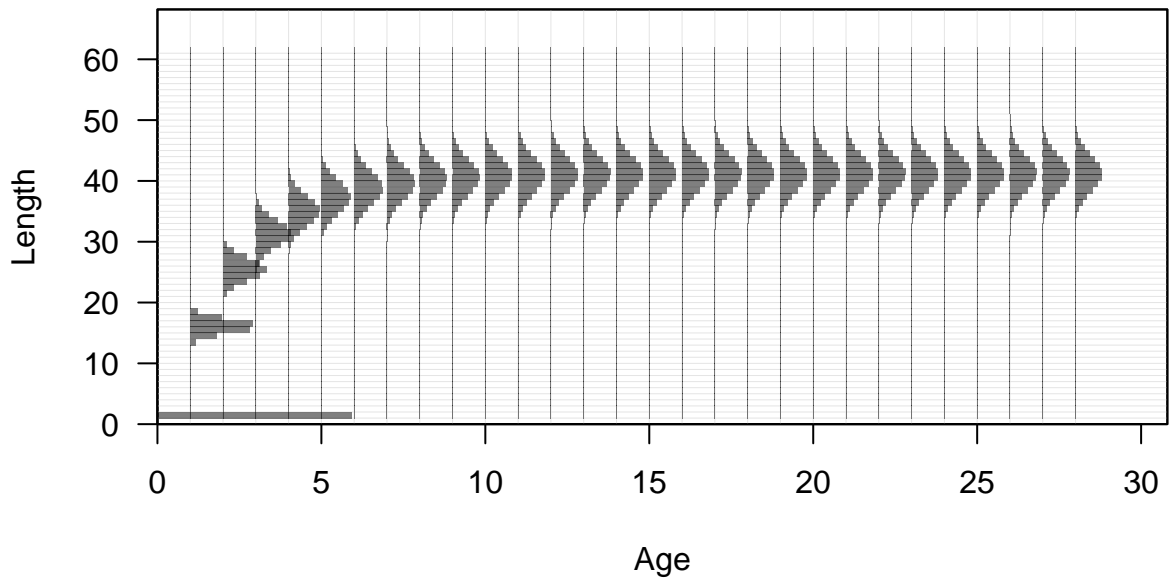
Length (cm, beginning of the year)

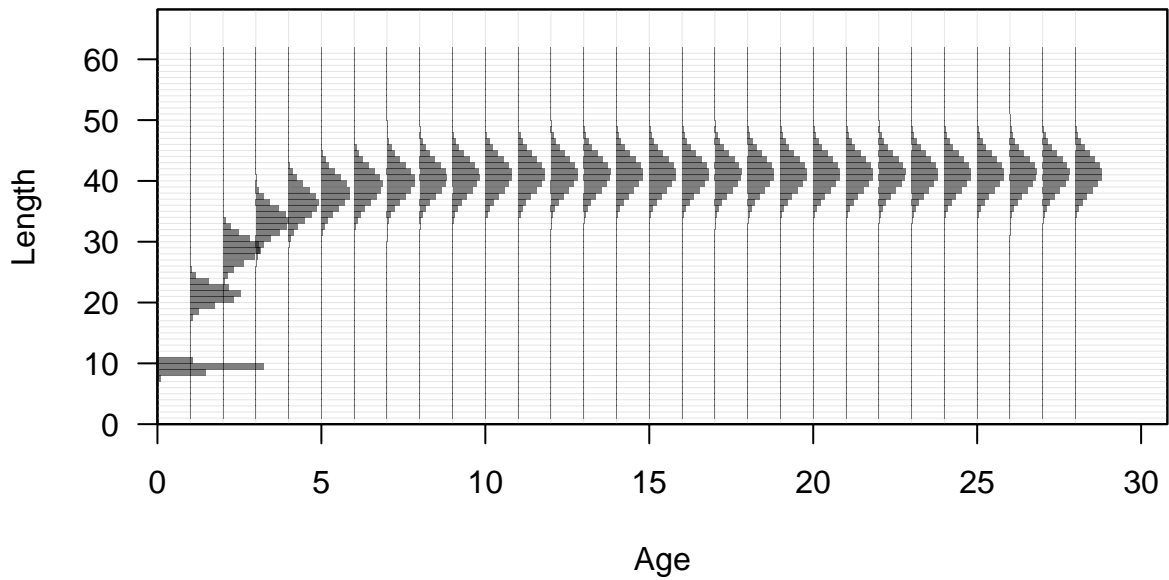


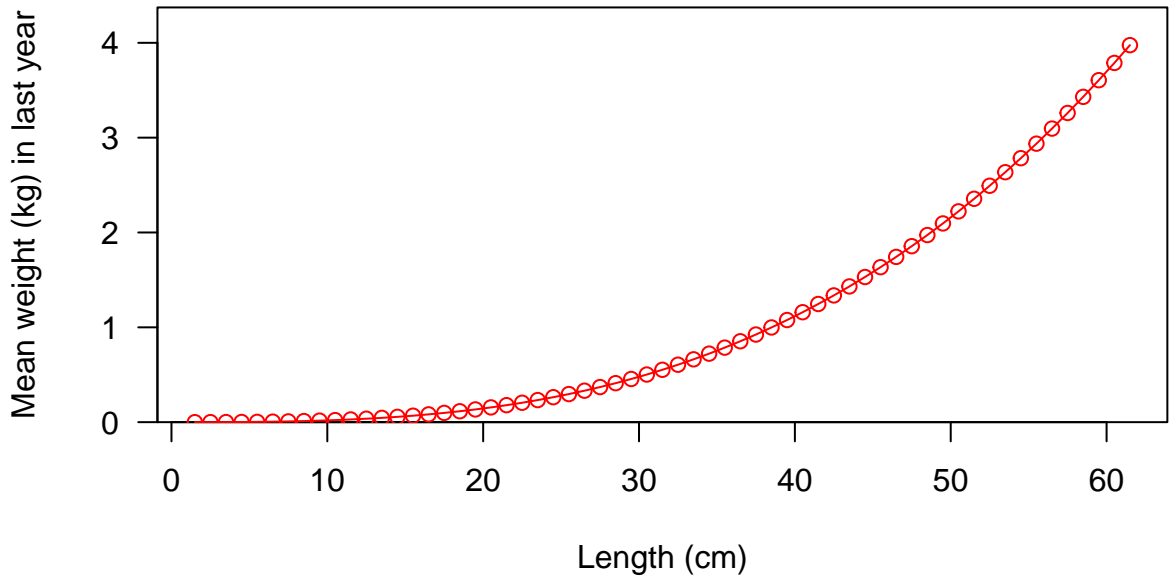
Age (yr)

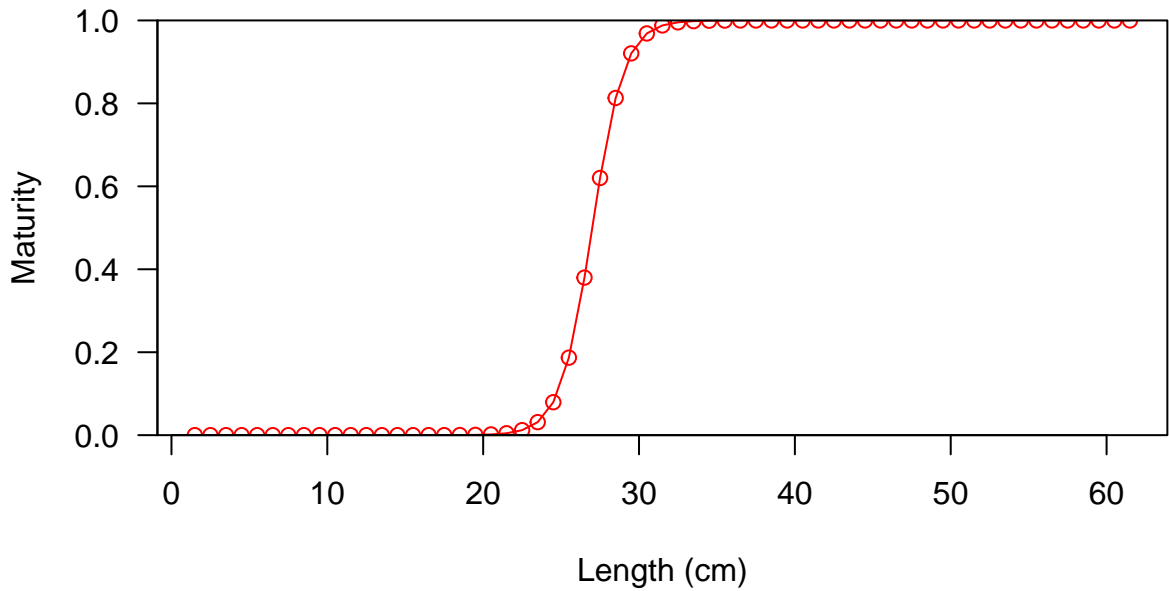




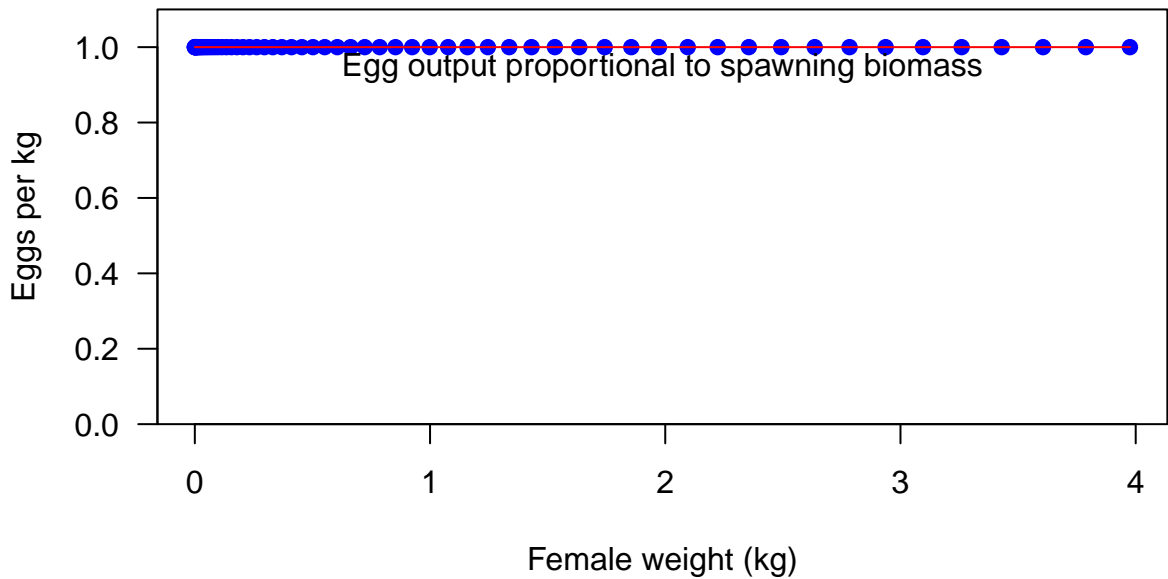




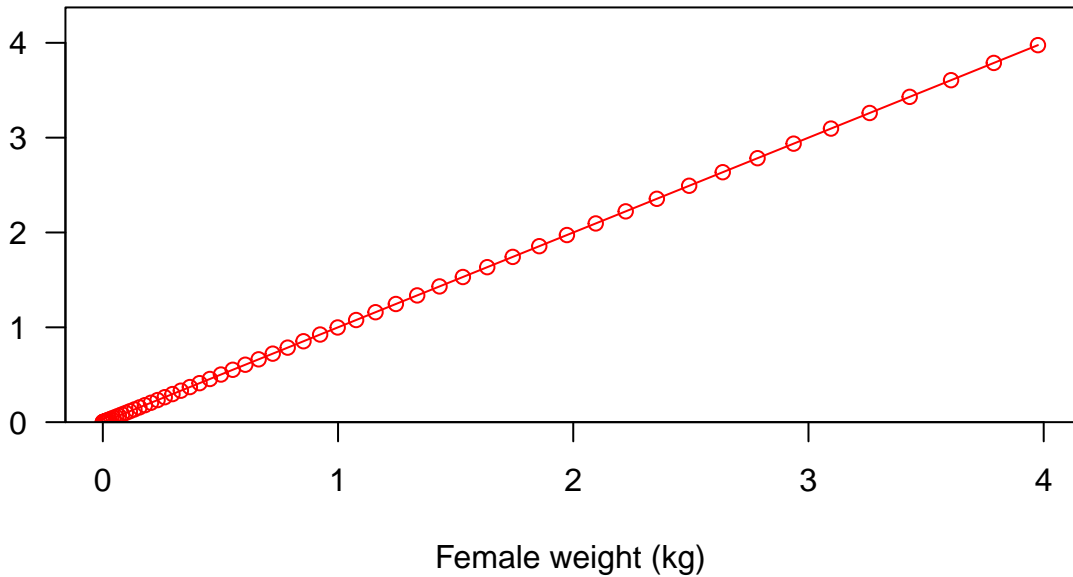




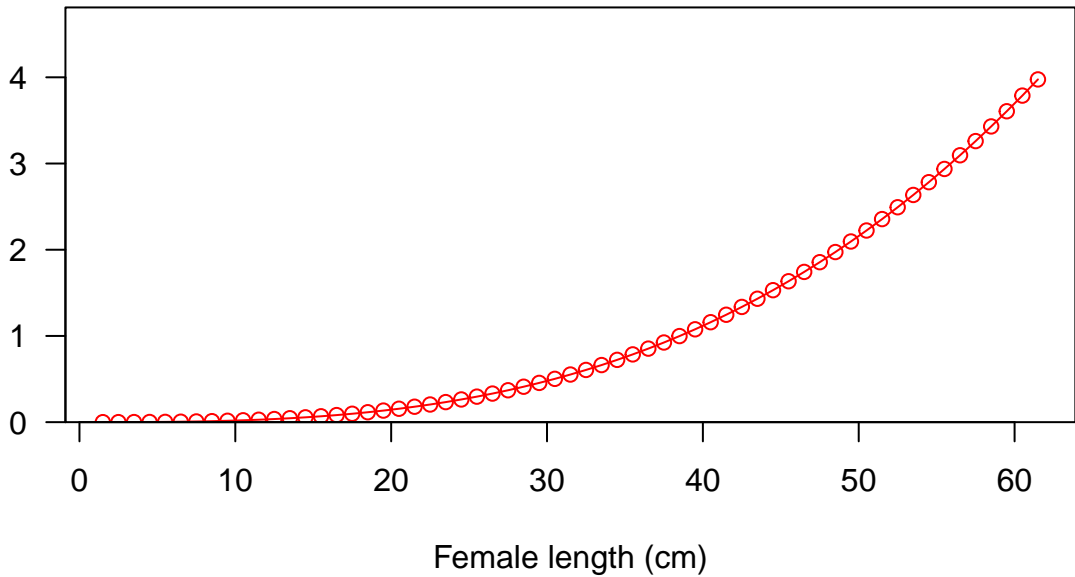




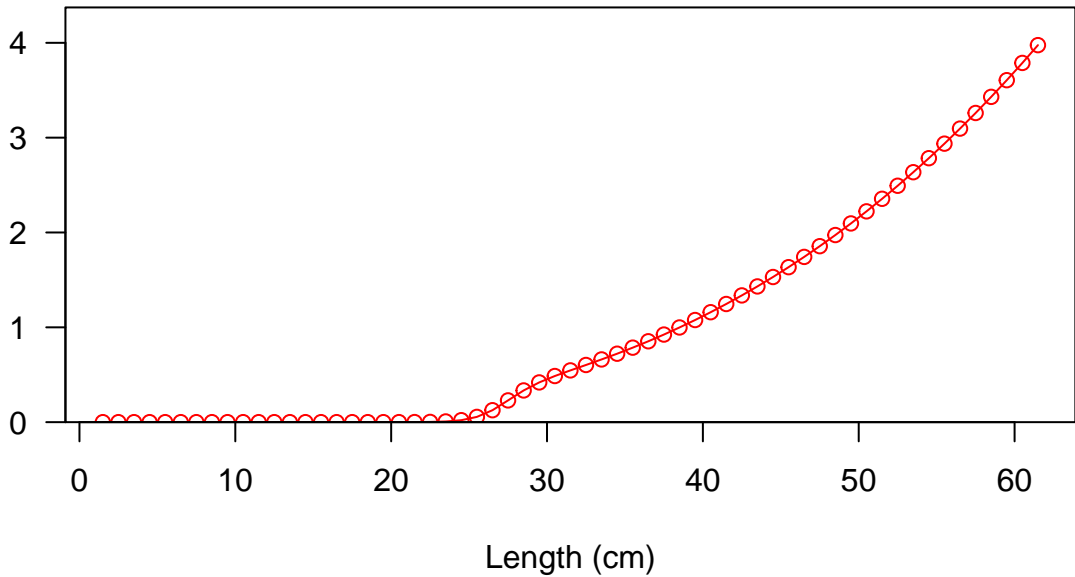
Fecundity

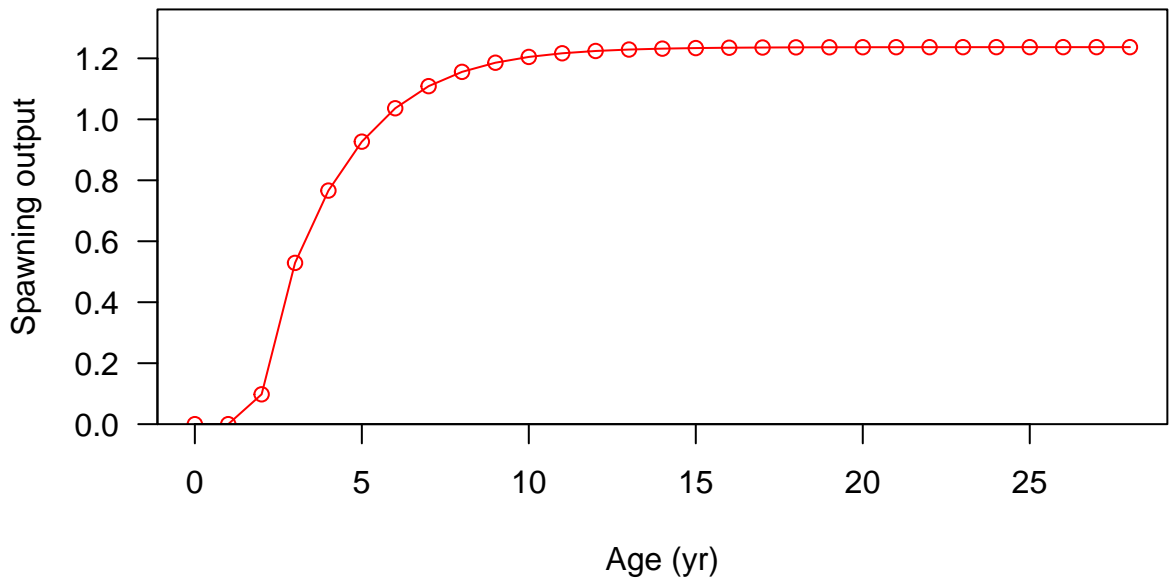


Fecundity

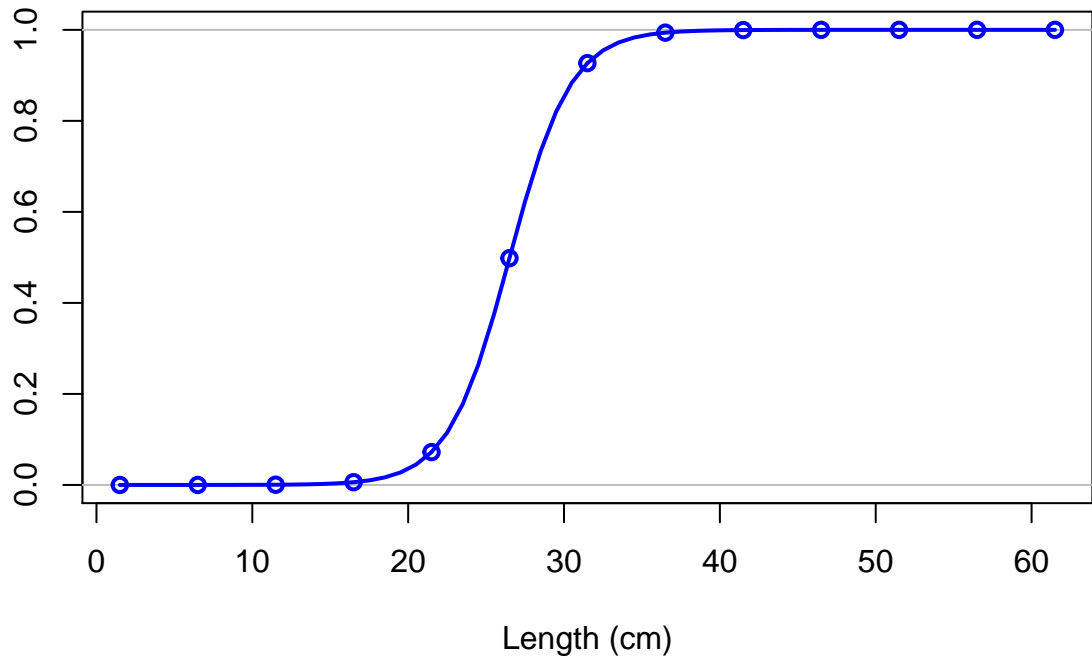


Spawning output

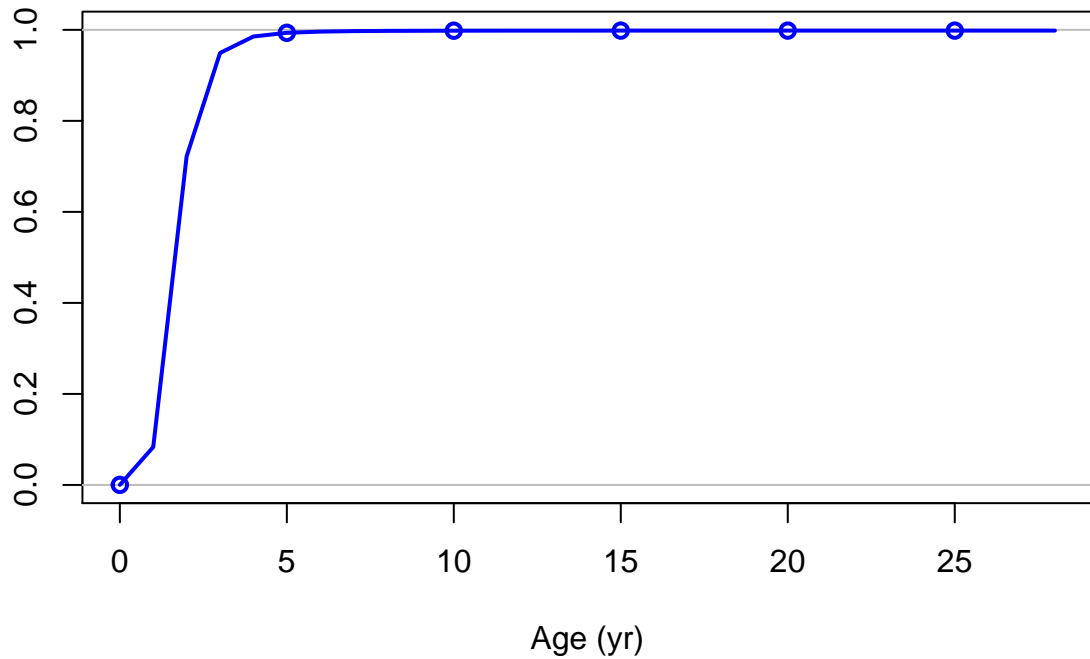




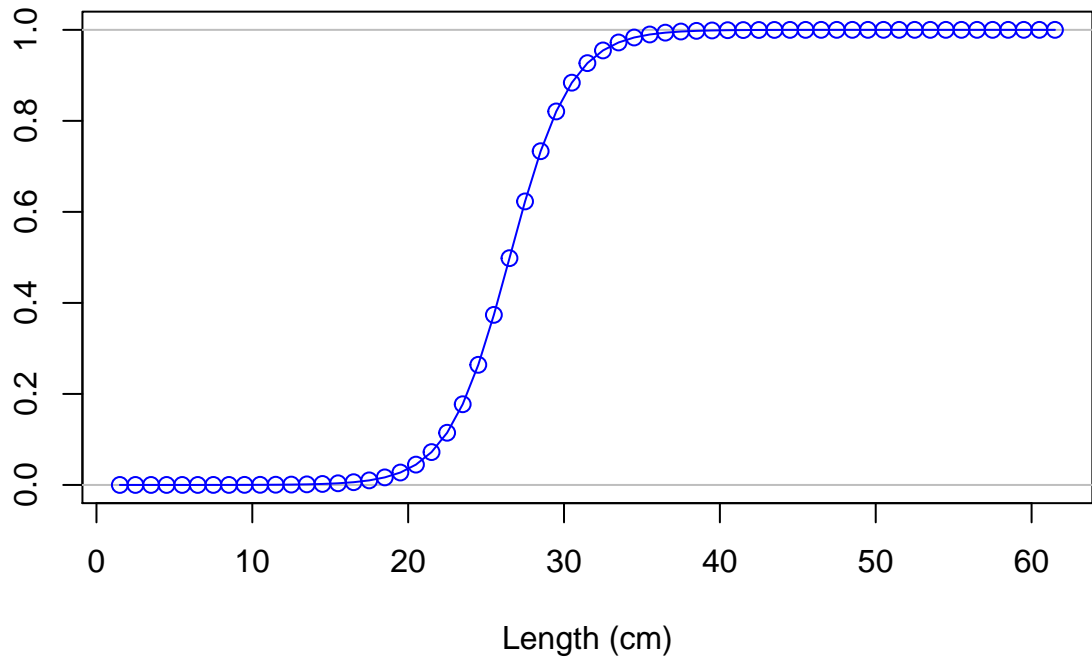
Selectivity



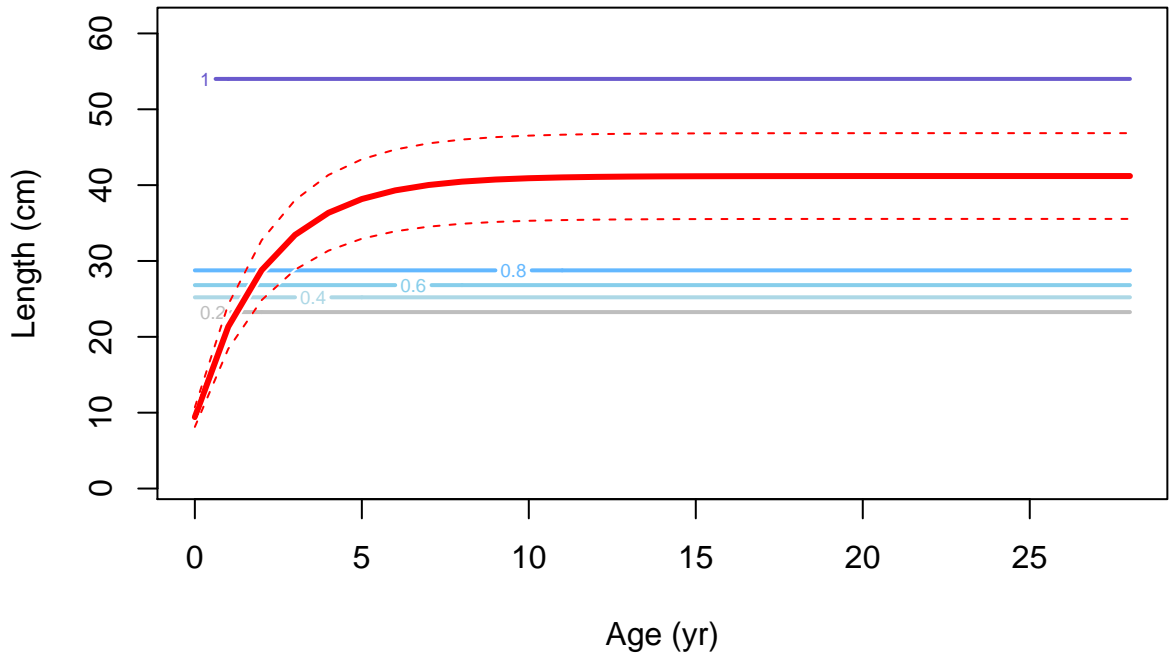
Selectivity

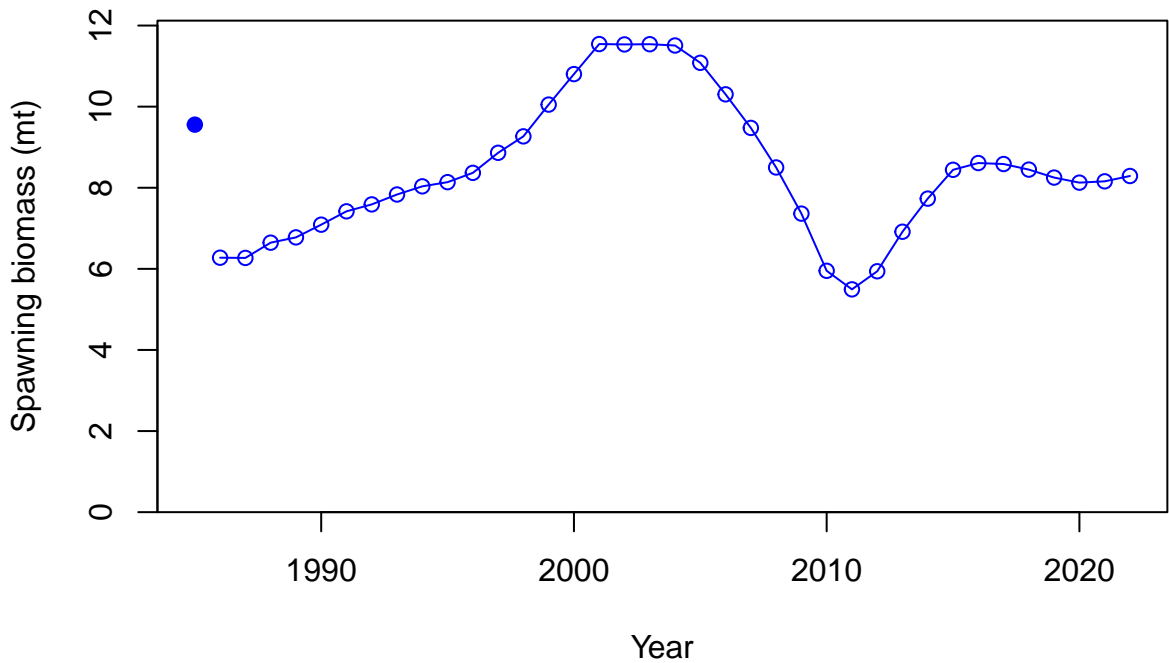


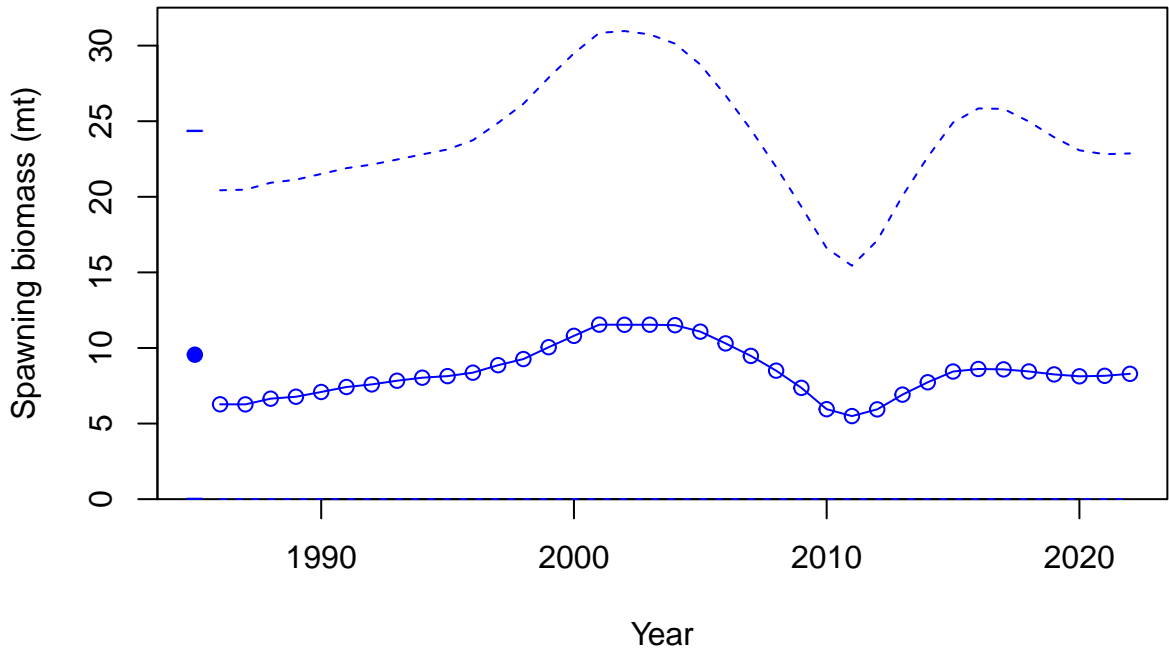
Selectivity



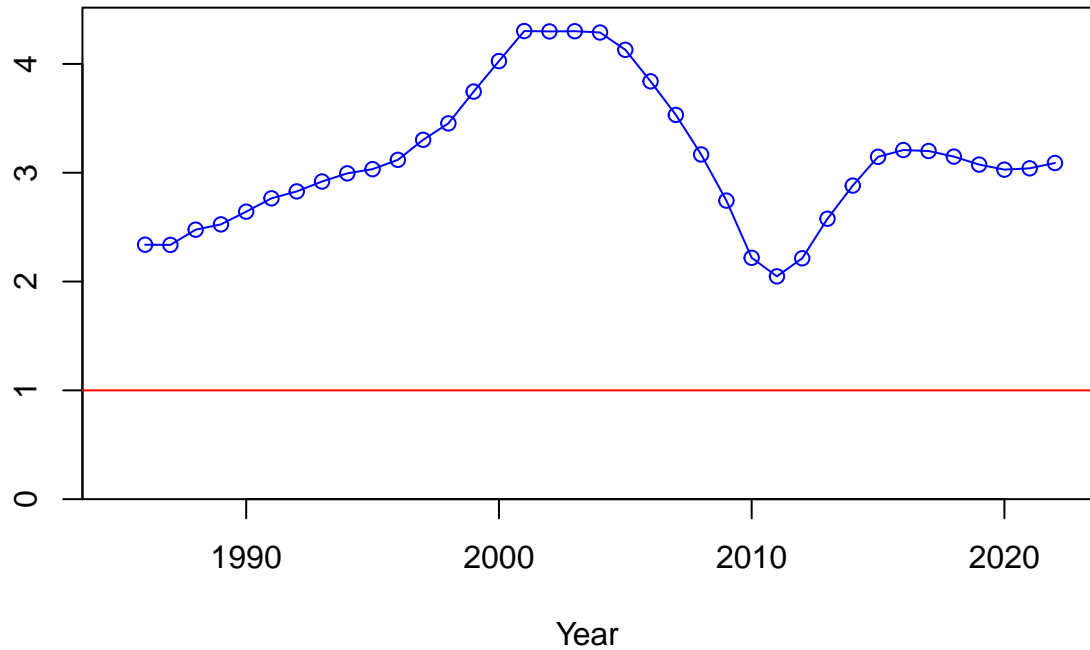




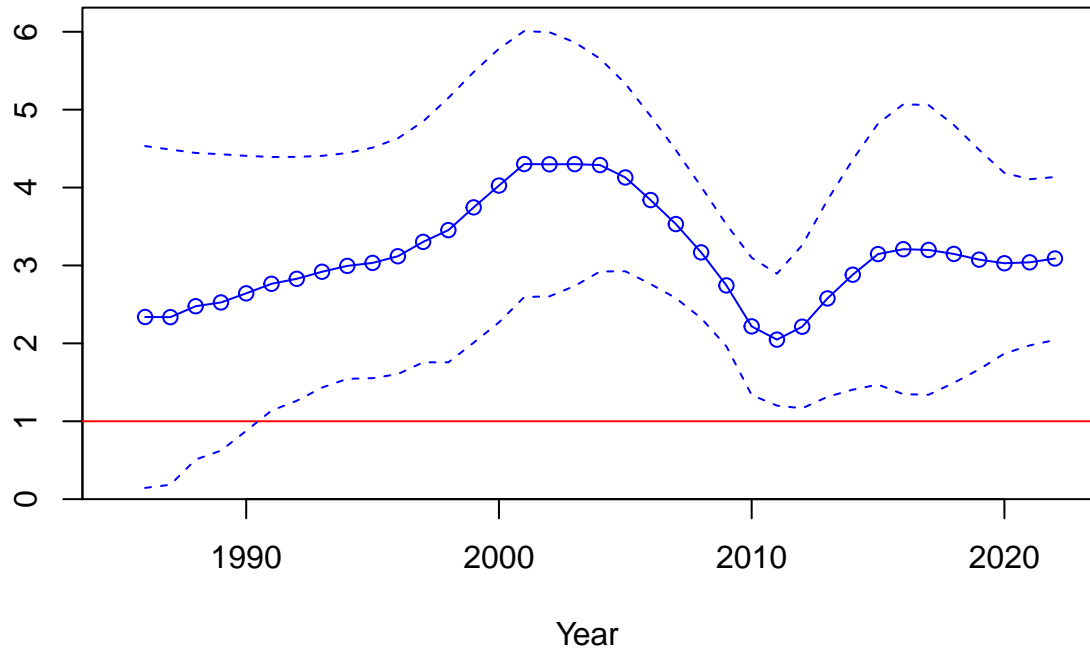


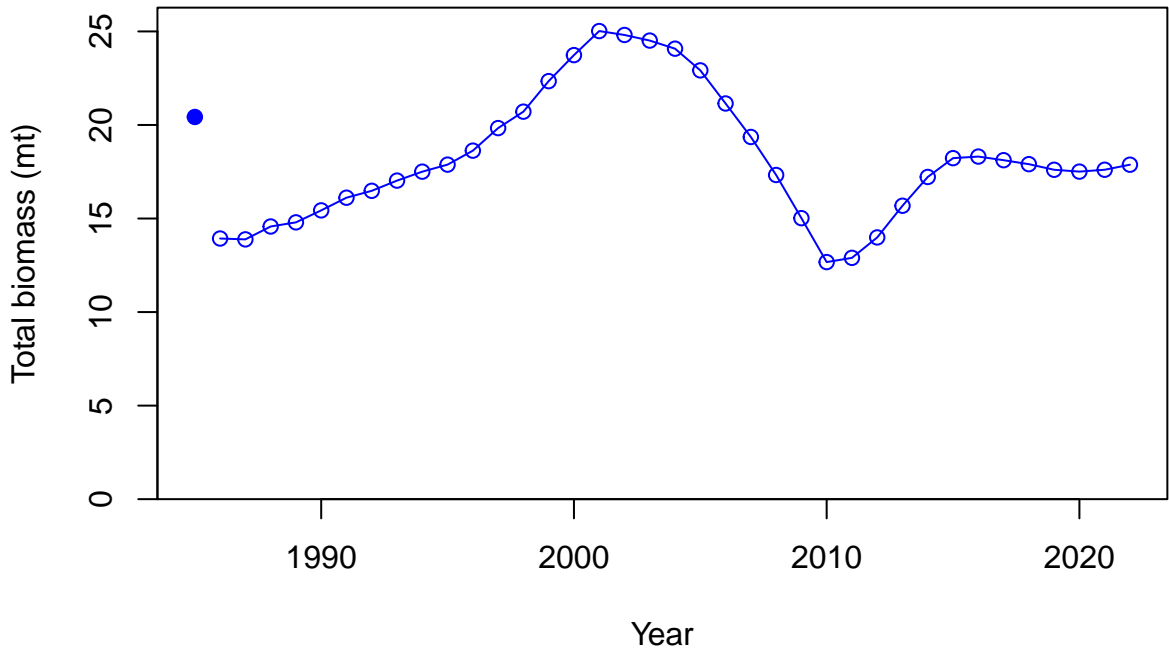


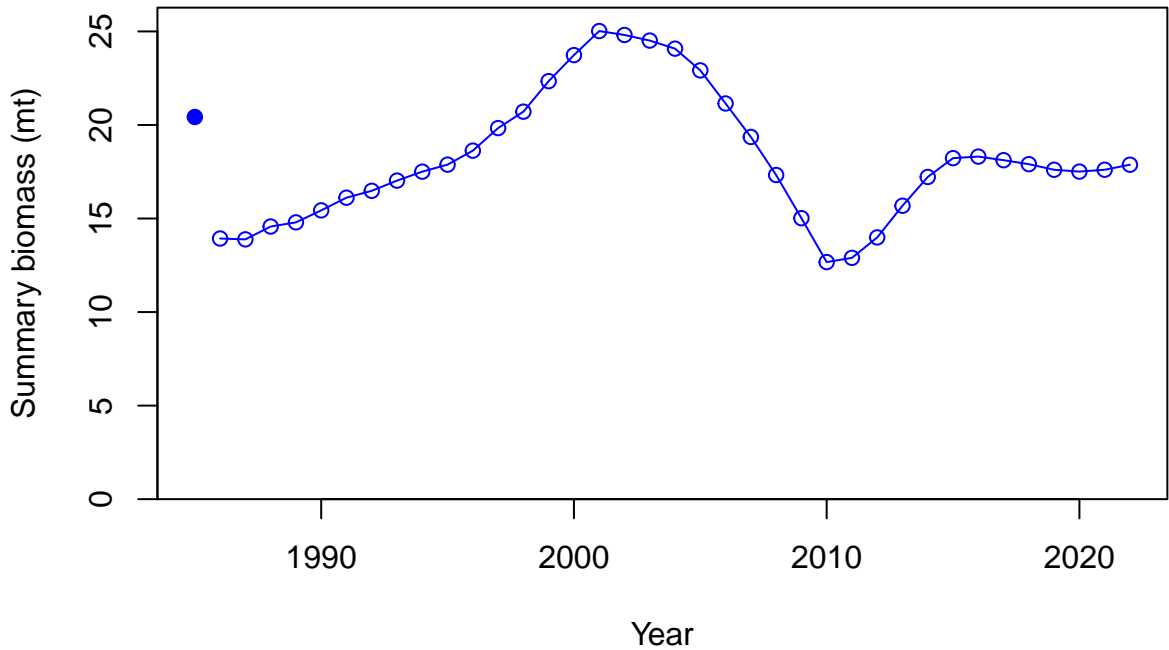
Relative spawning biomass:  $B/B_{MSY}$



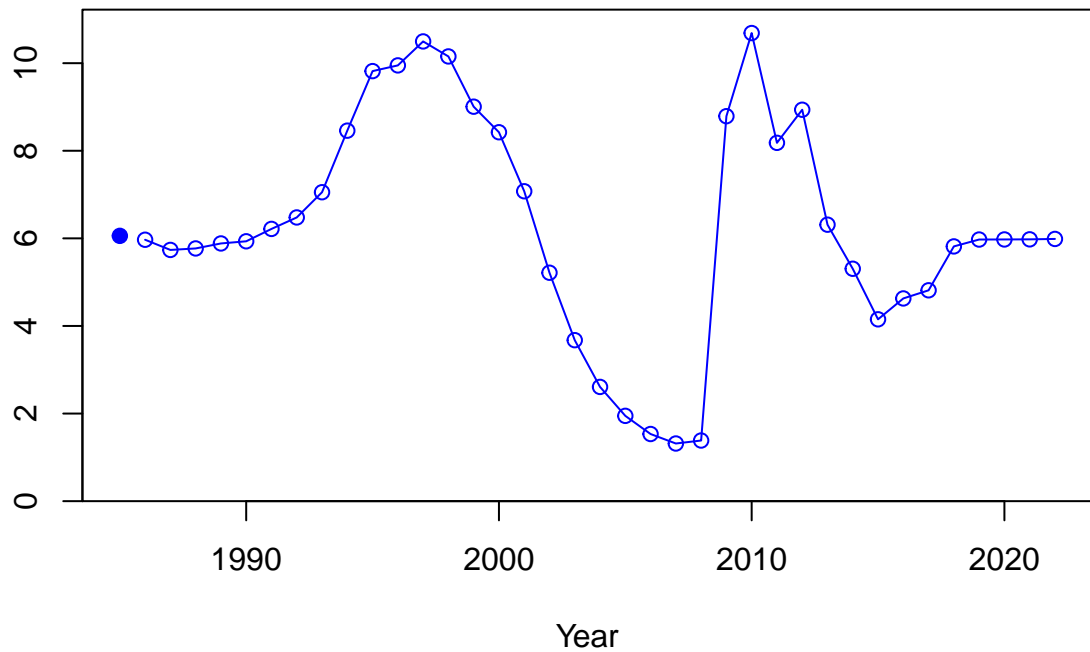
Relative spawning biomass:  $B/B_{MSY}$



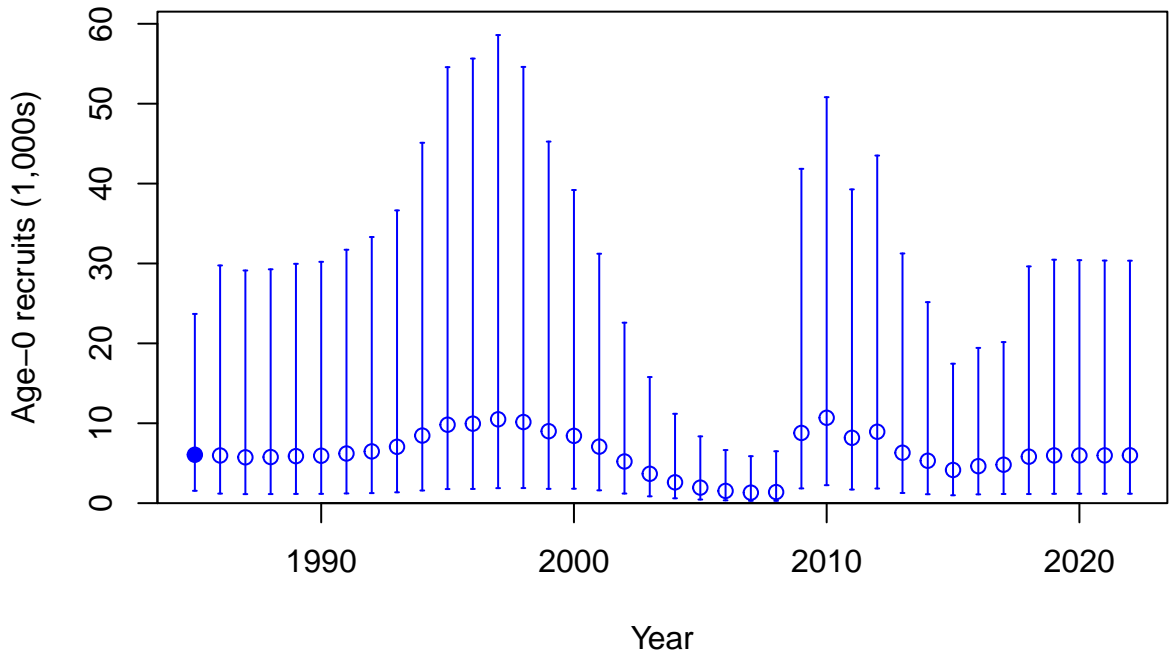




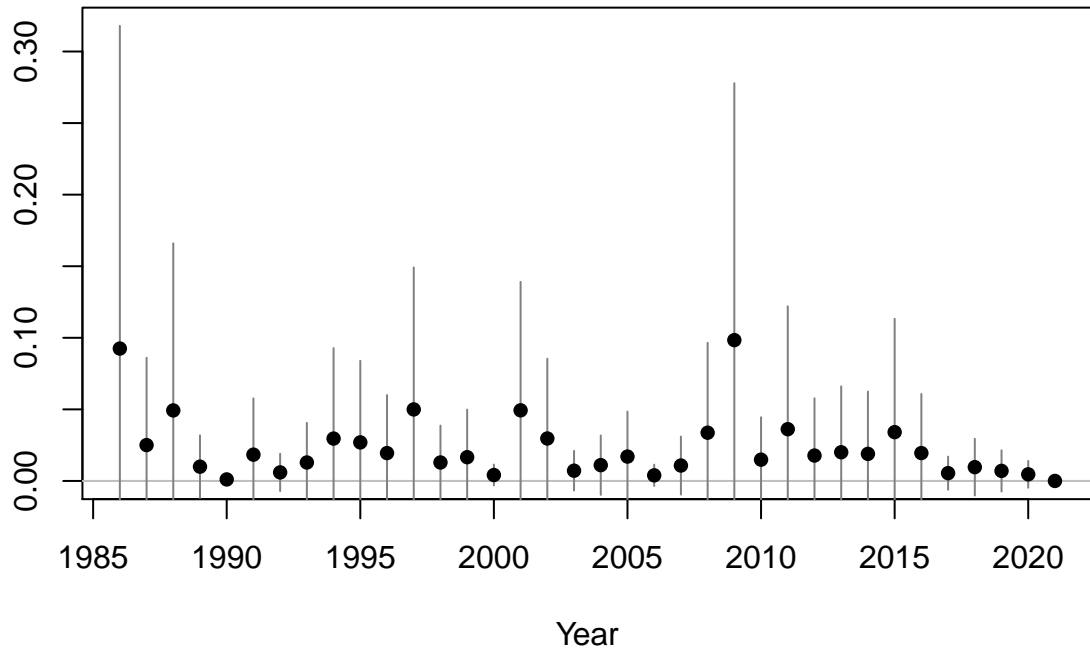
Age-0 recruits (1,000s)

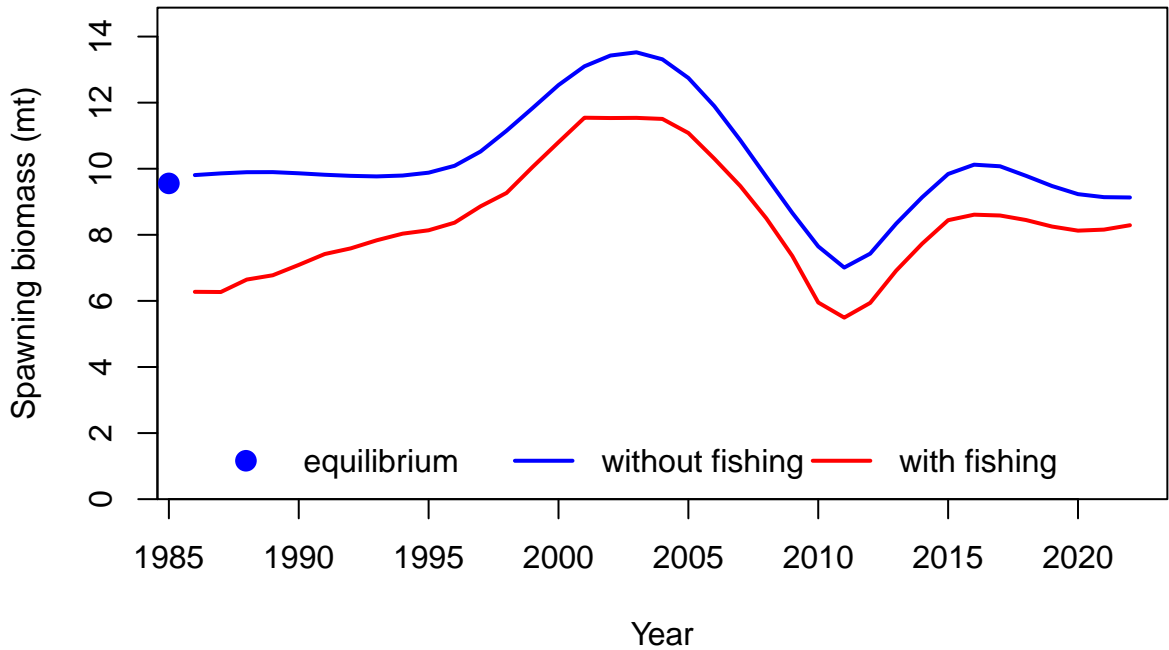




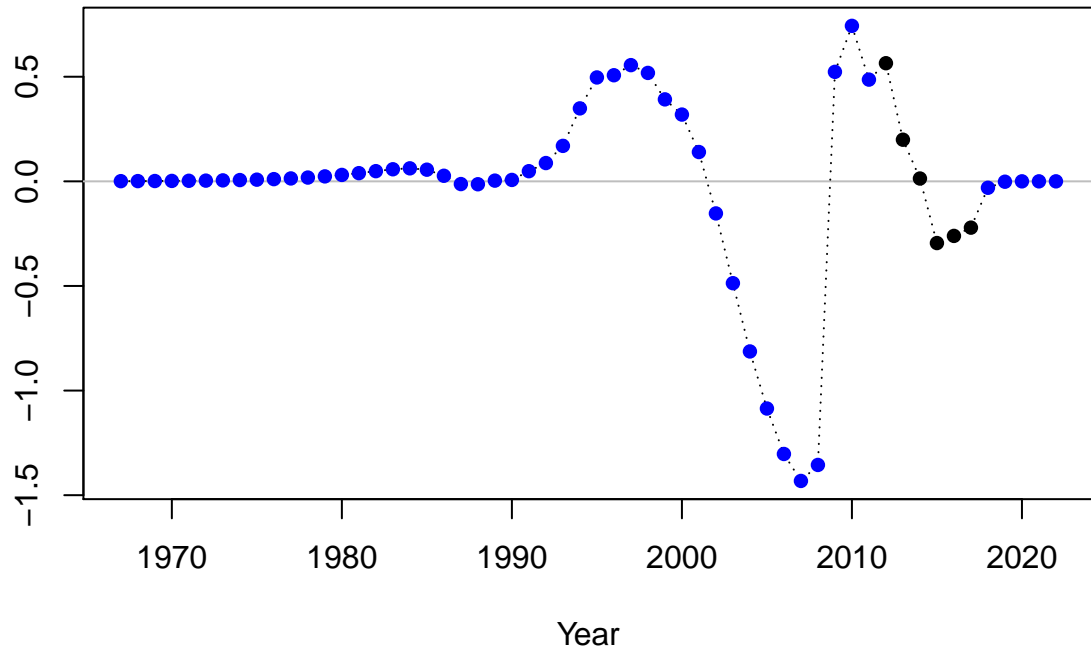


Summary Fishing Mortality

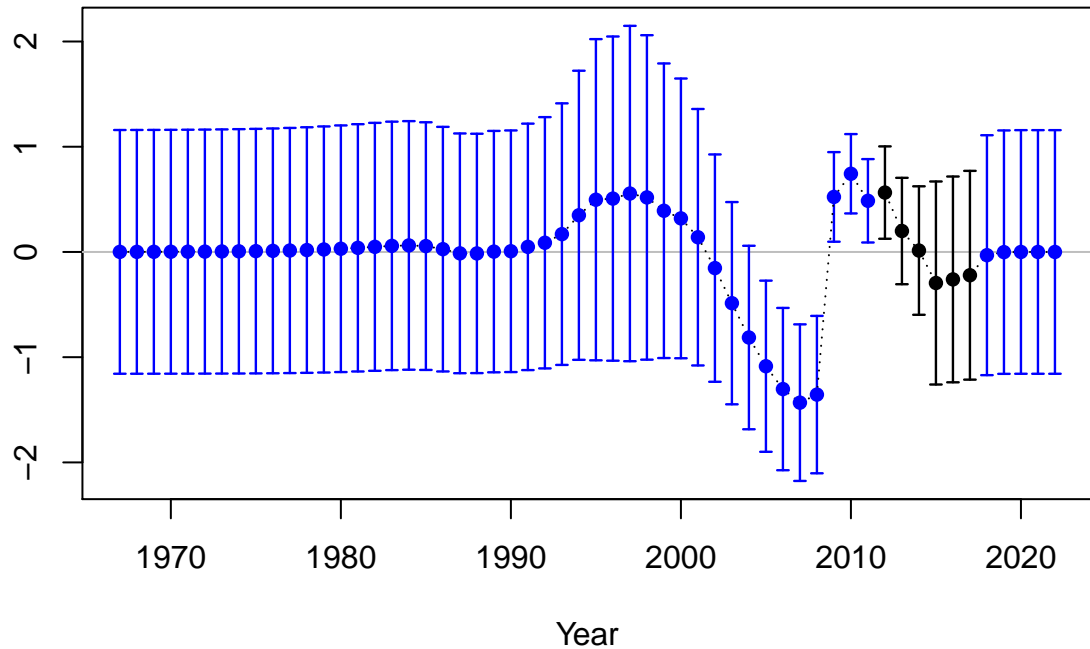




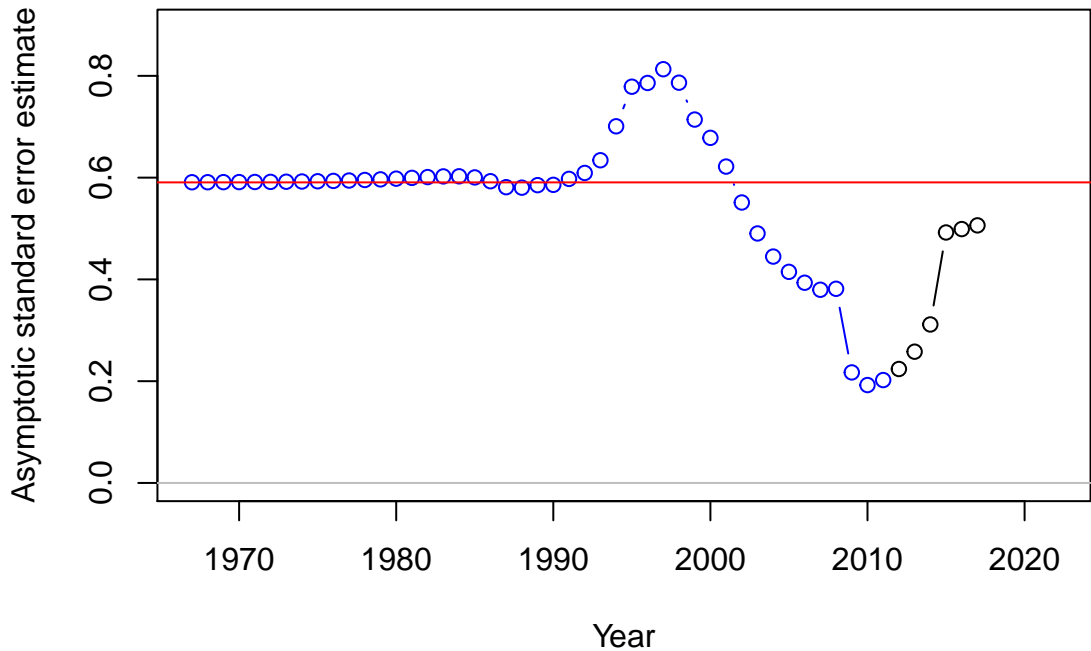
Log recruitment deviation

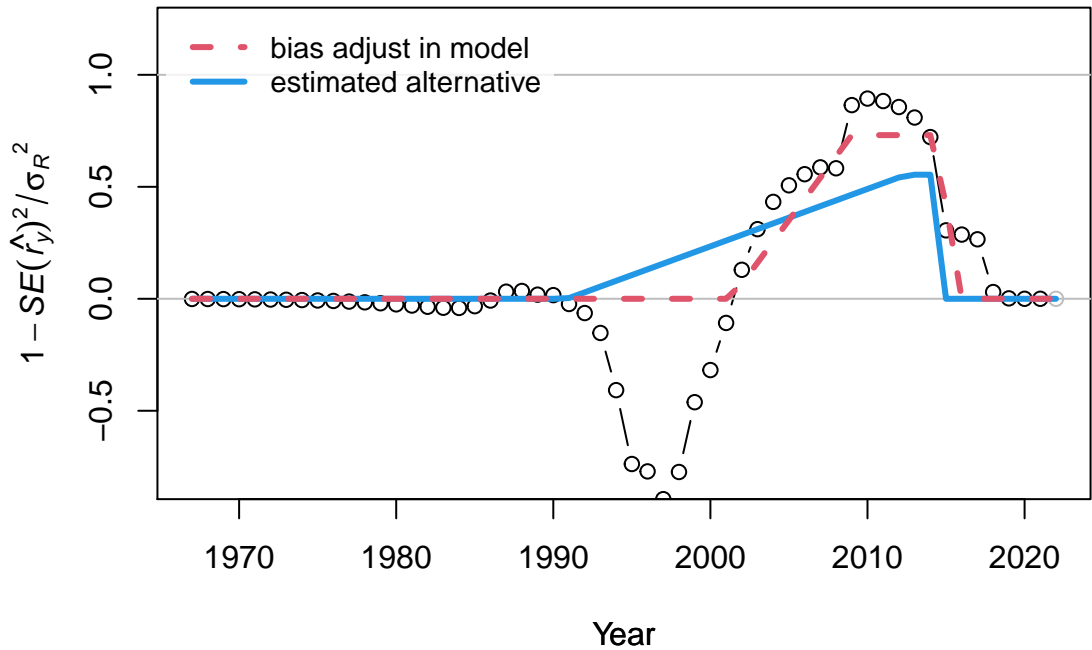


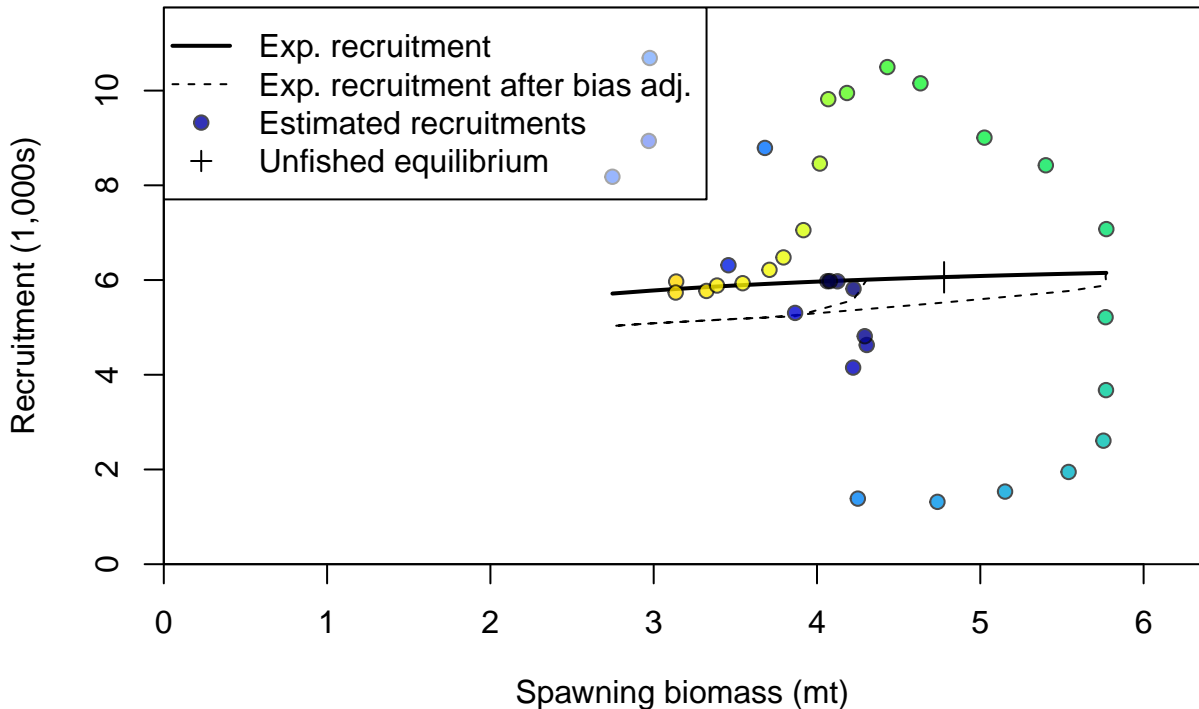
Log recruitment deviation



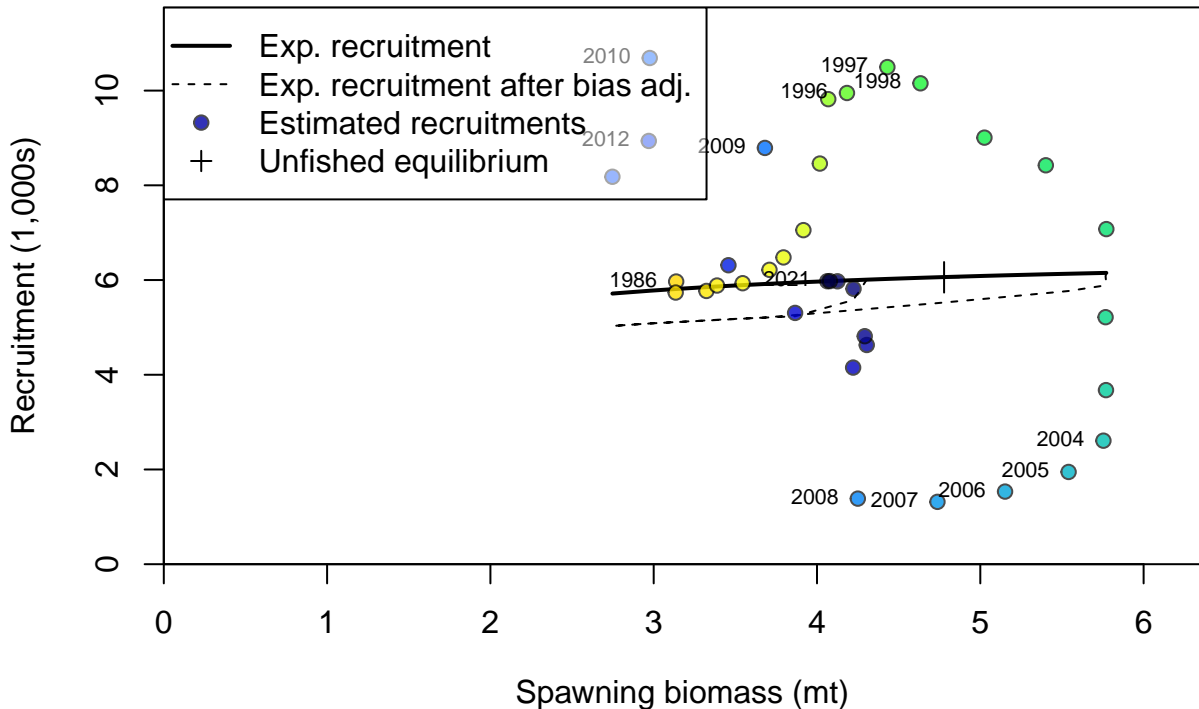
## Recruitment deviation variance



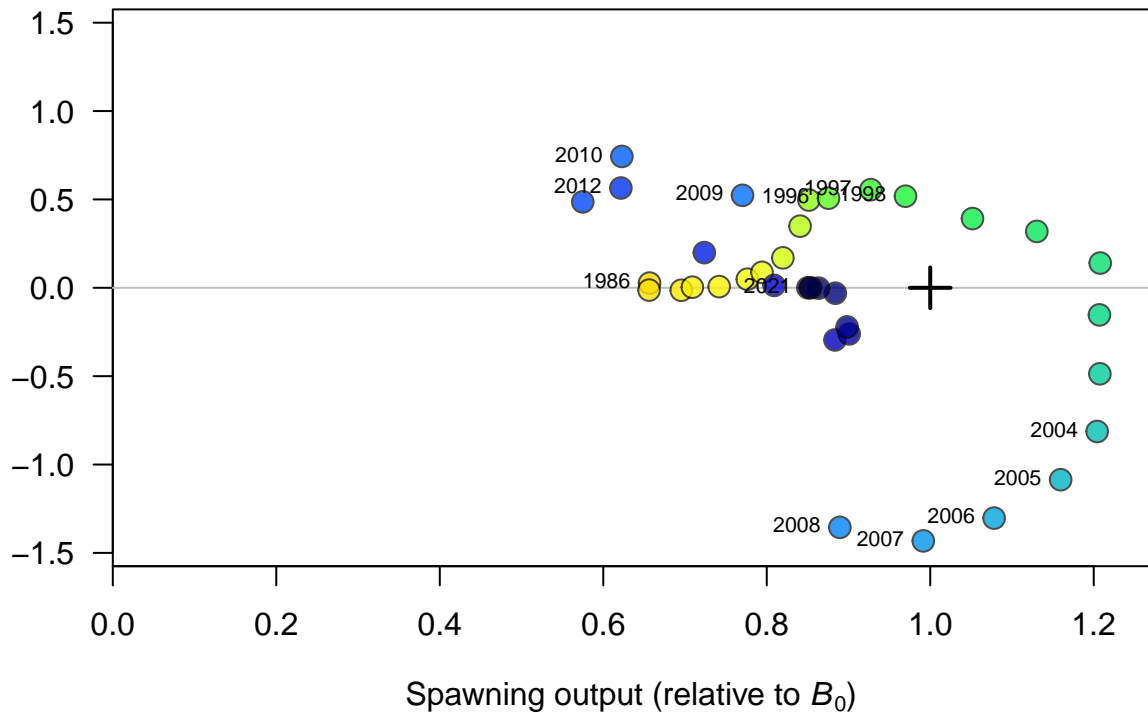


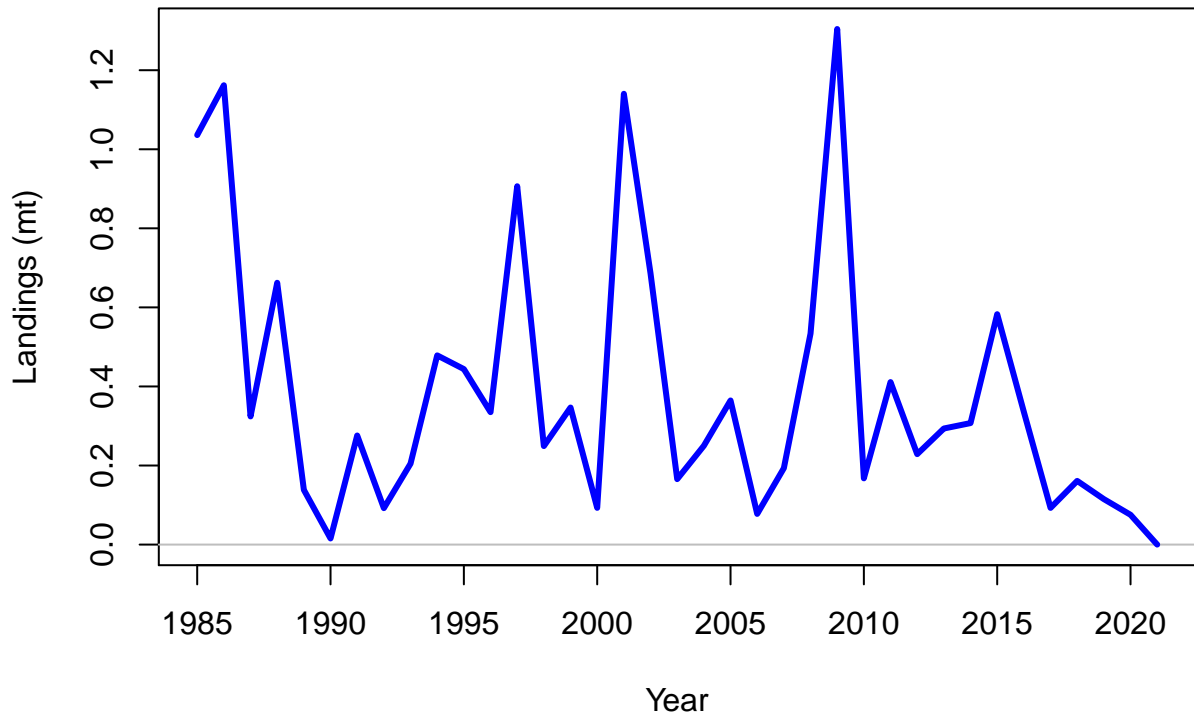


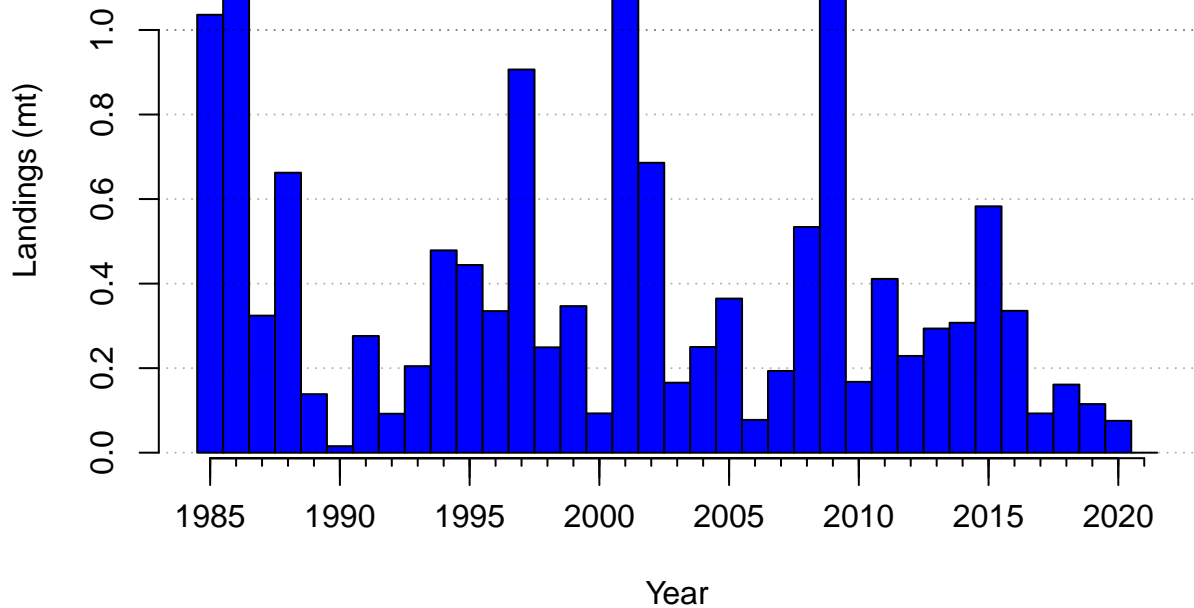


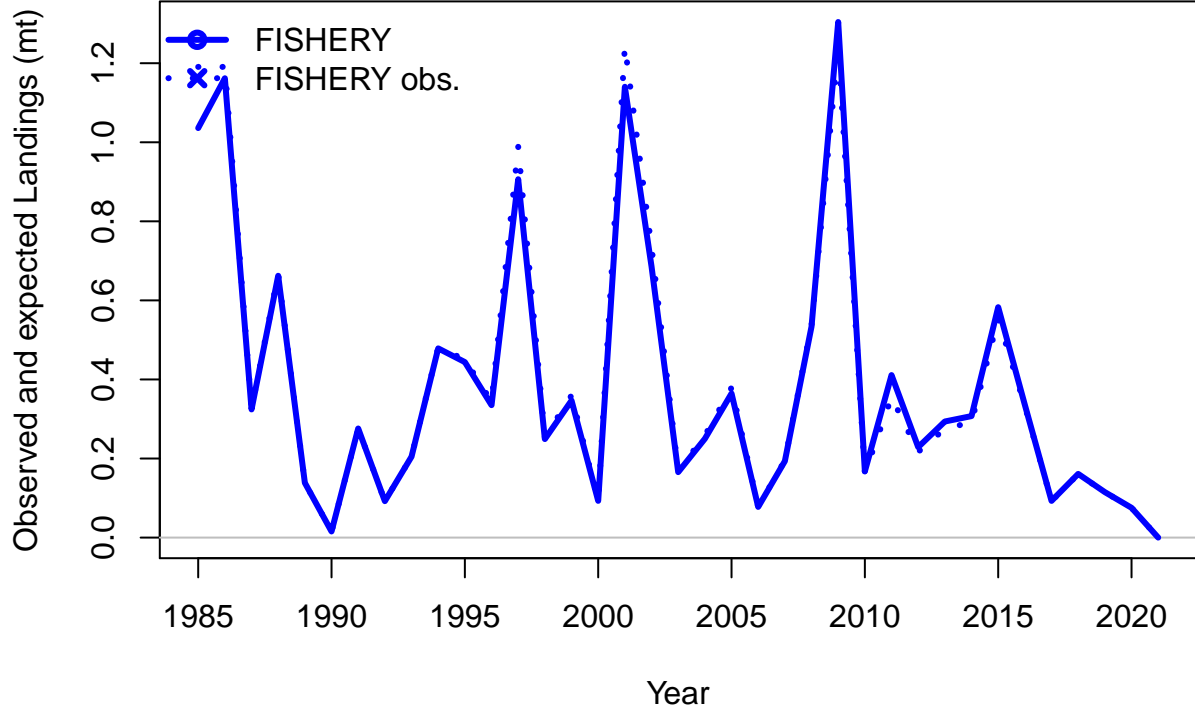


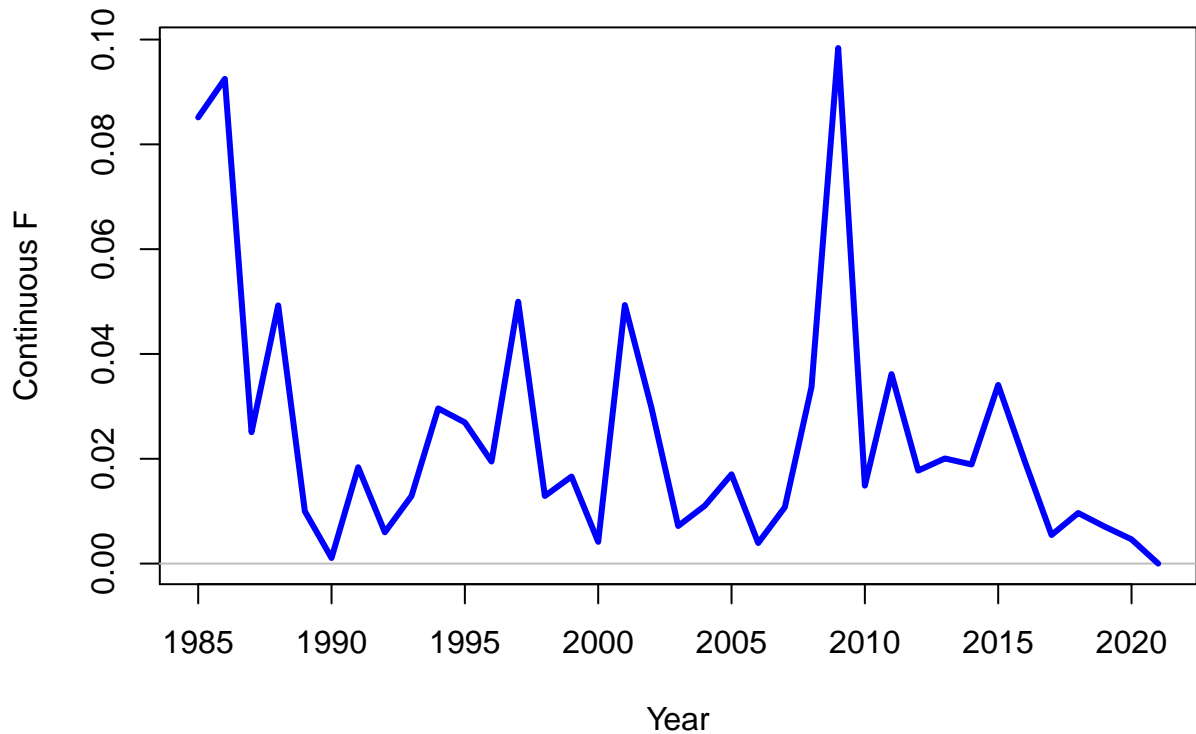
Log recruitment deviation



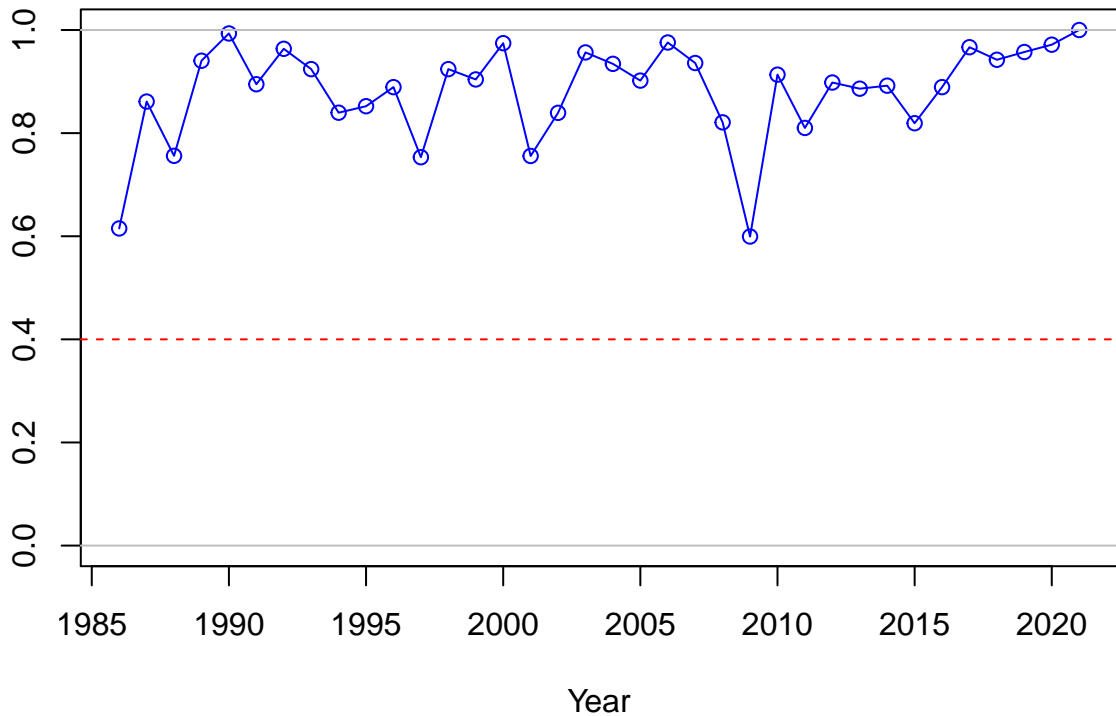




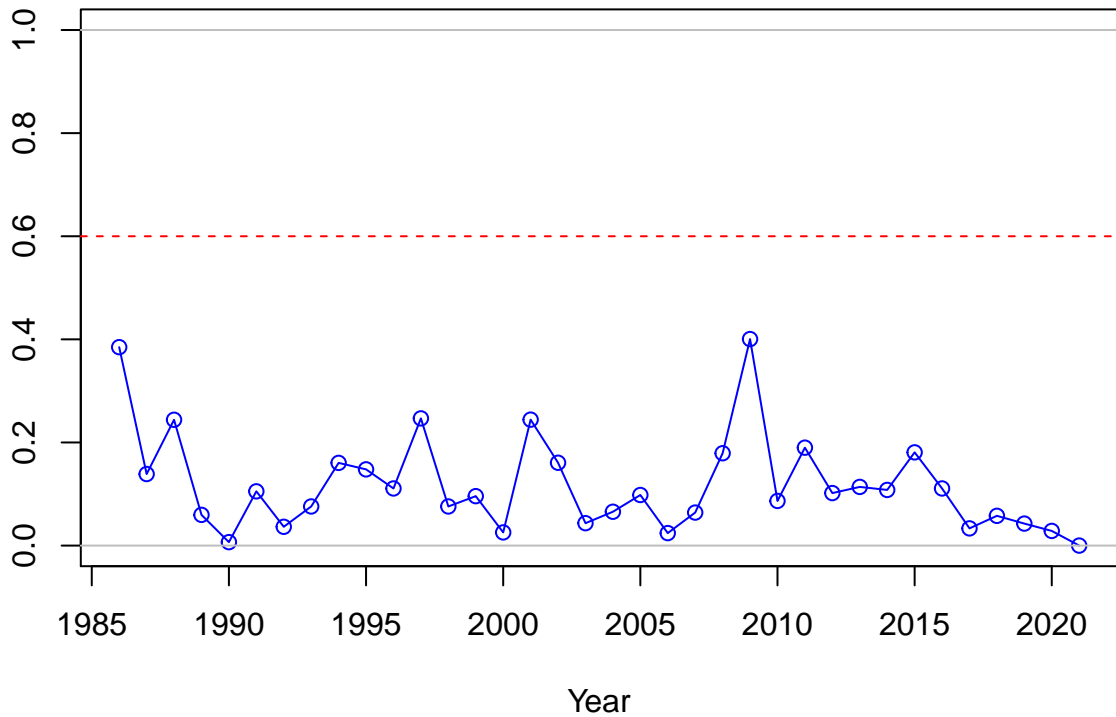




SPR

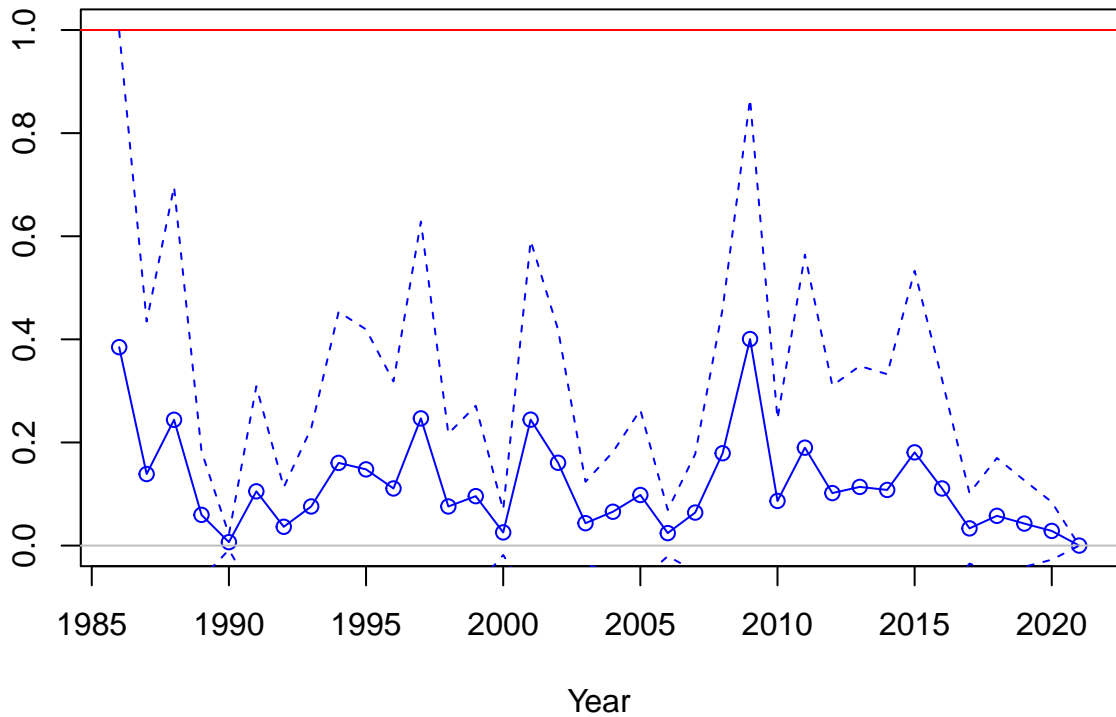


1-SPR

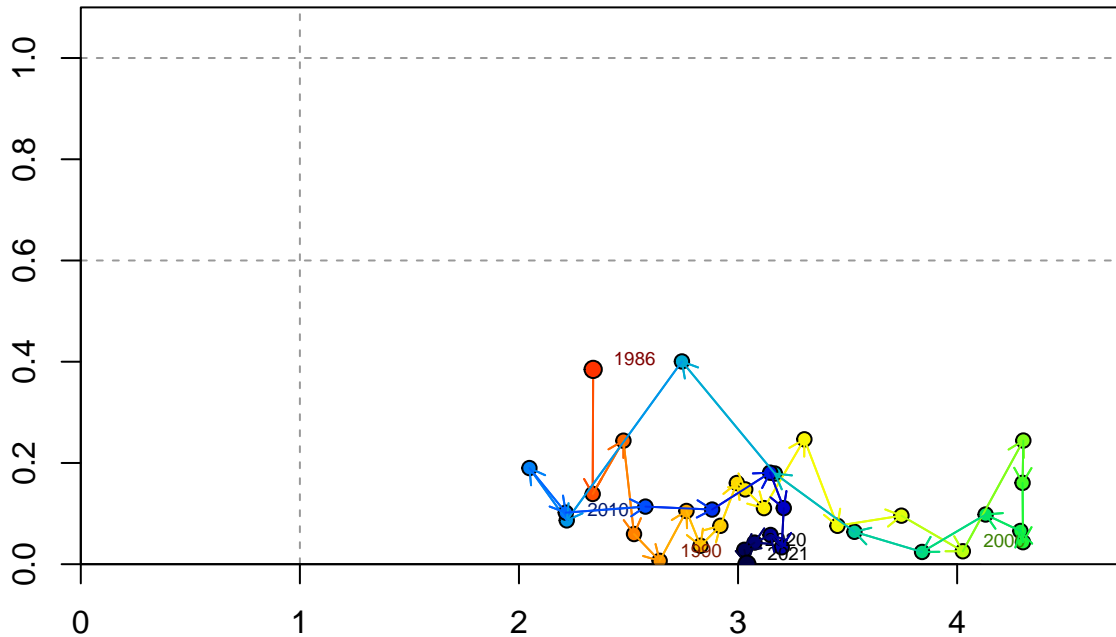




Fishing intensity: 1-SPR



Fishing intensity: 1-SPR



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

Index

15  
10  
5  
0

1990

1995

2000

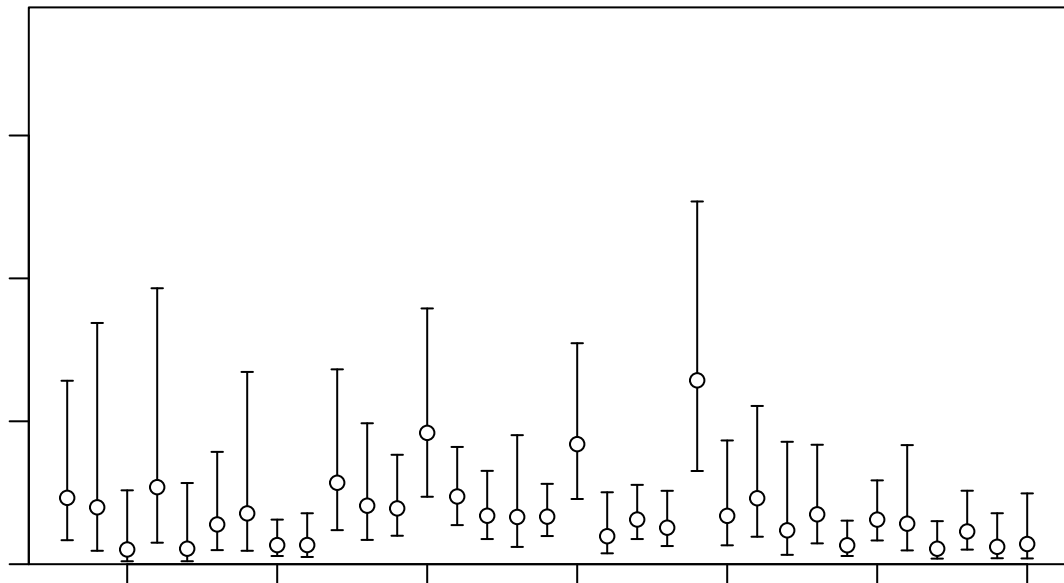
2005

2010

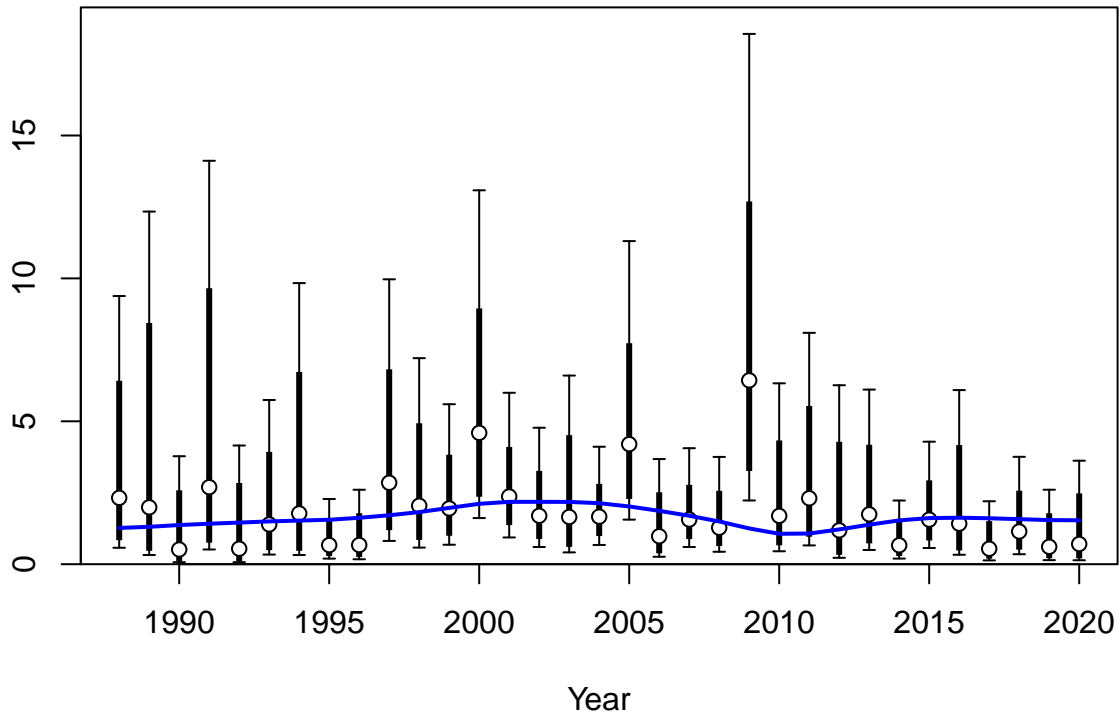
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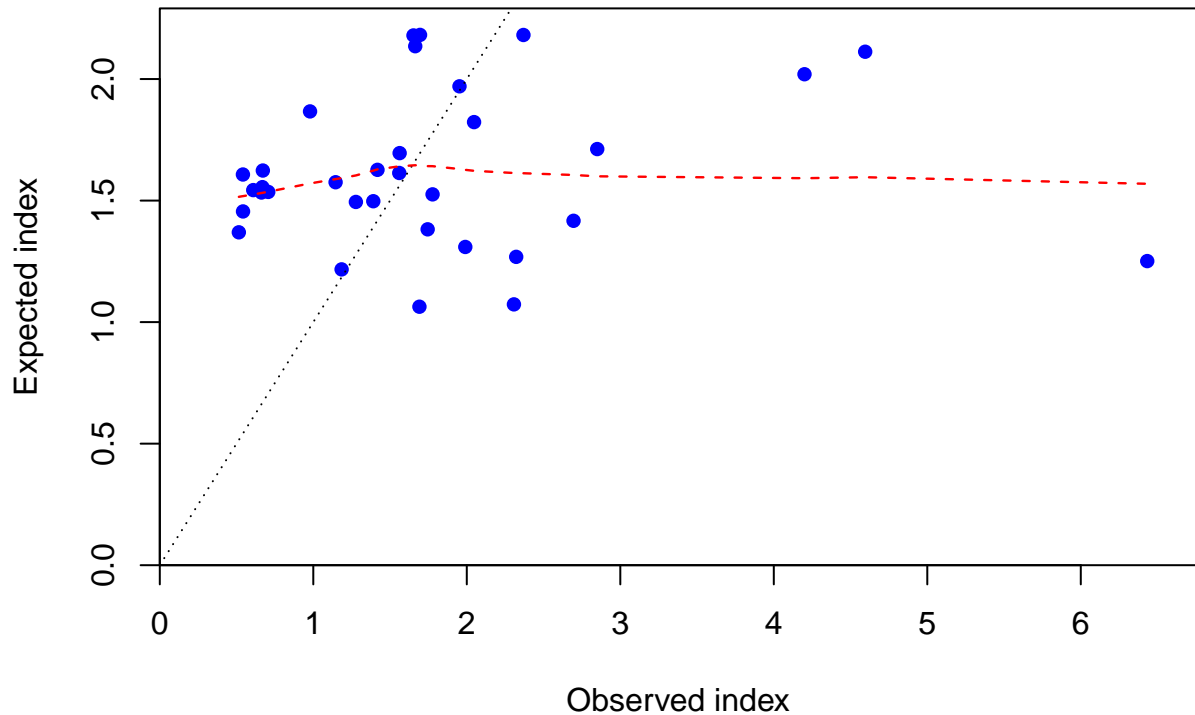
2020

Year

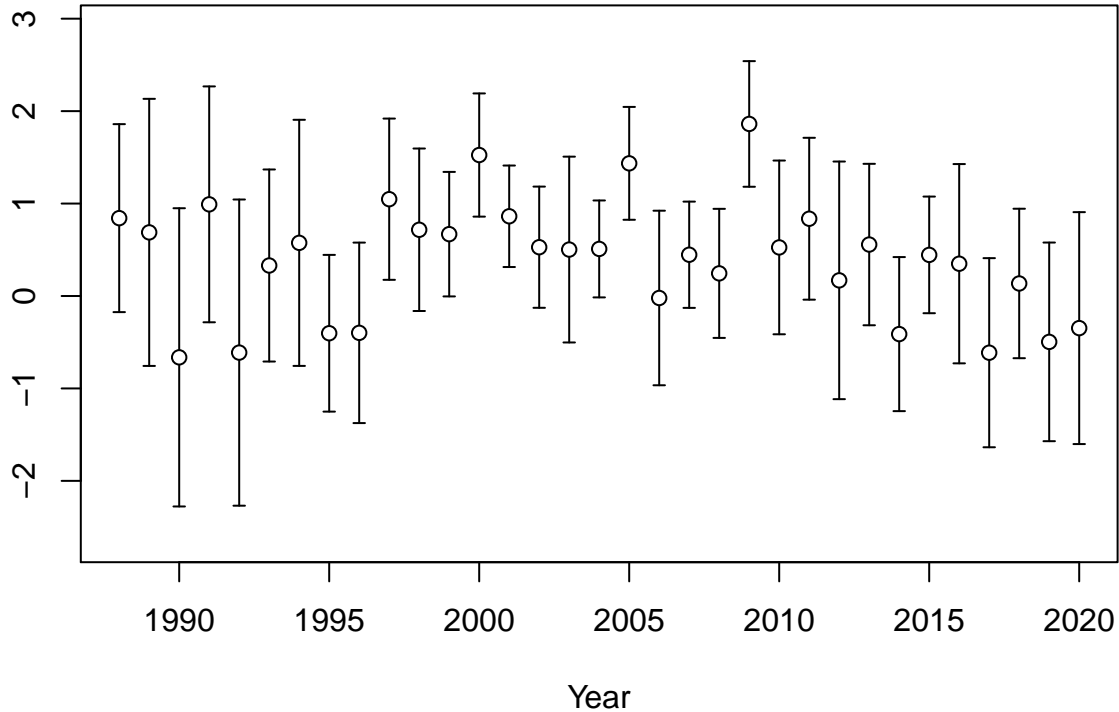


Index

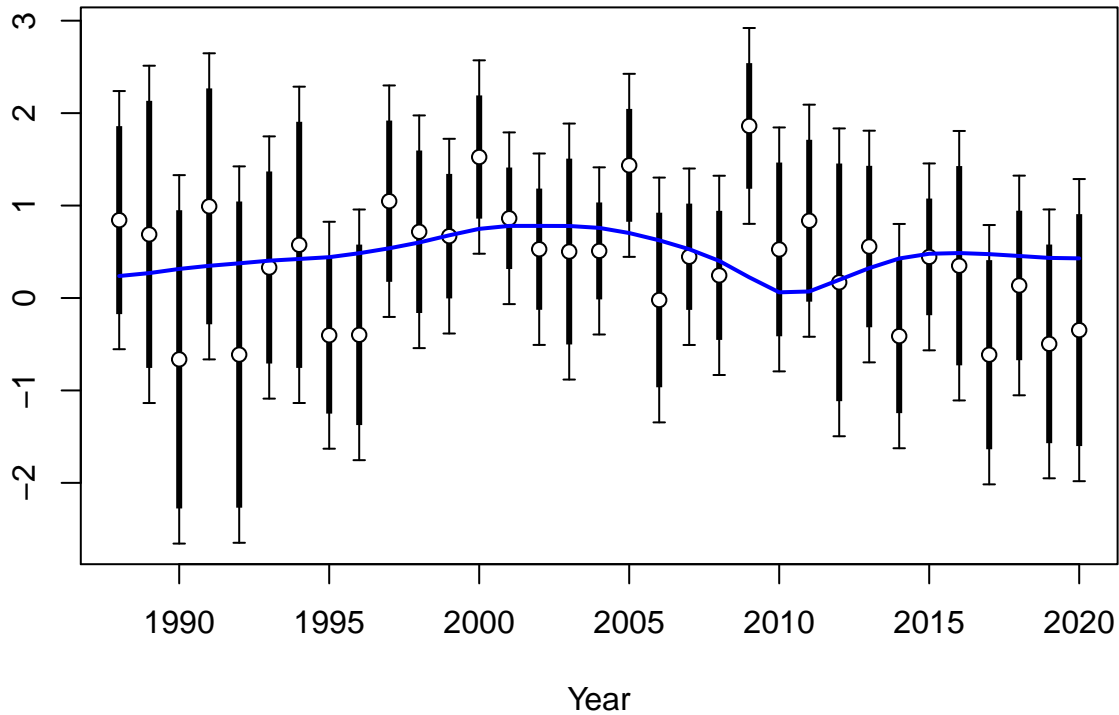




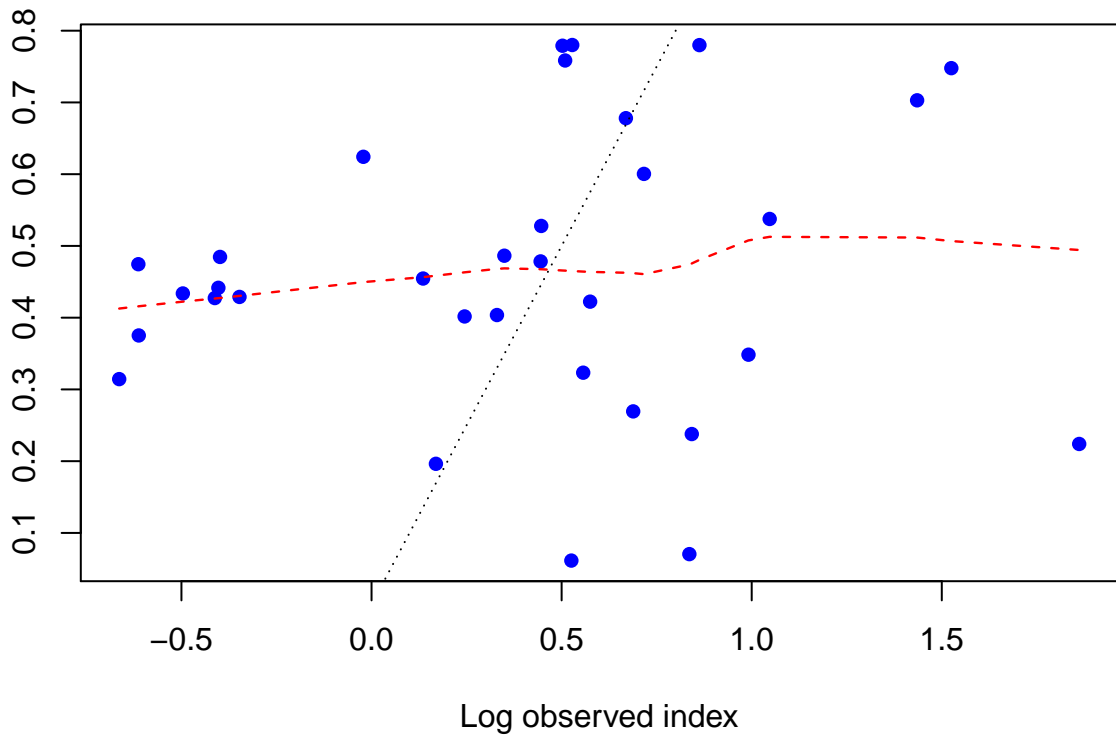
Log index



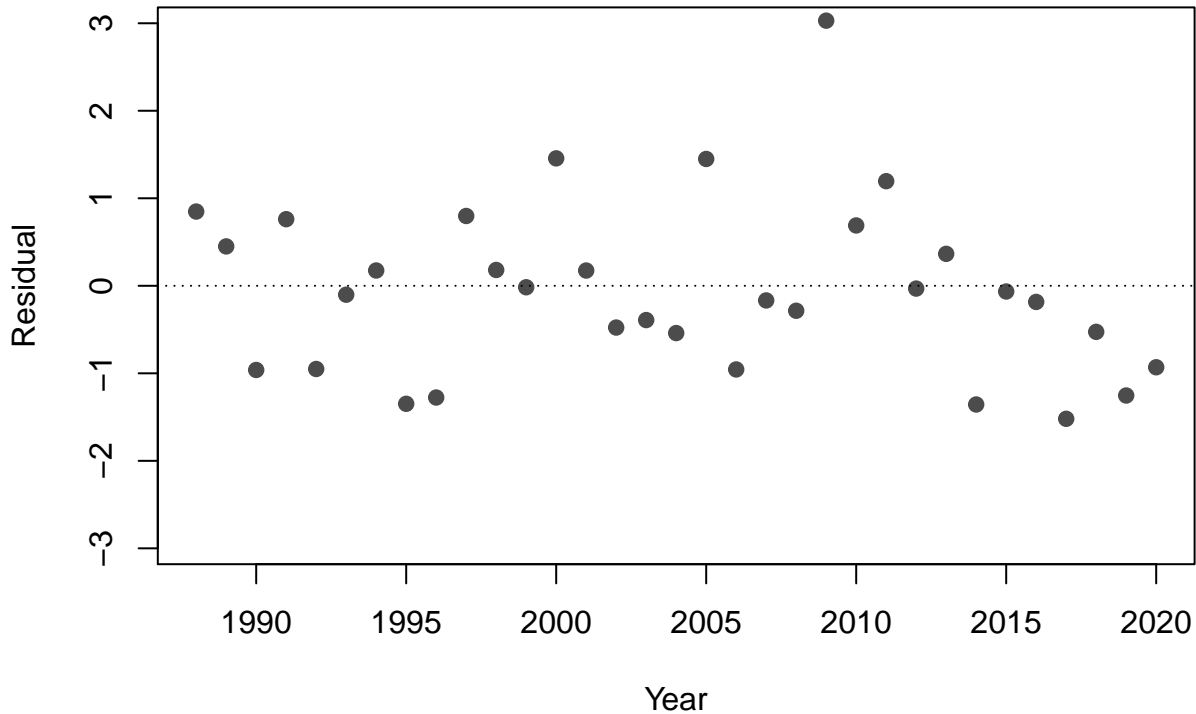
Log index

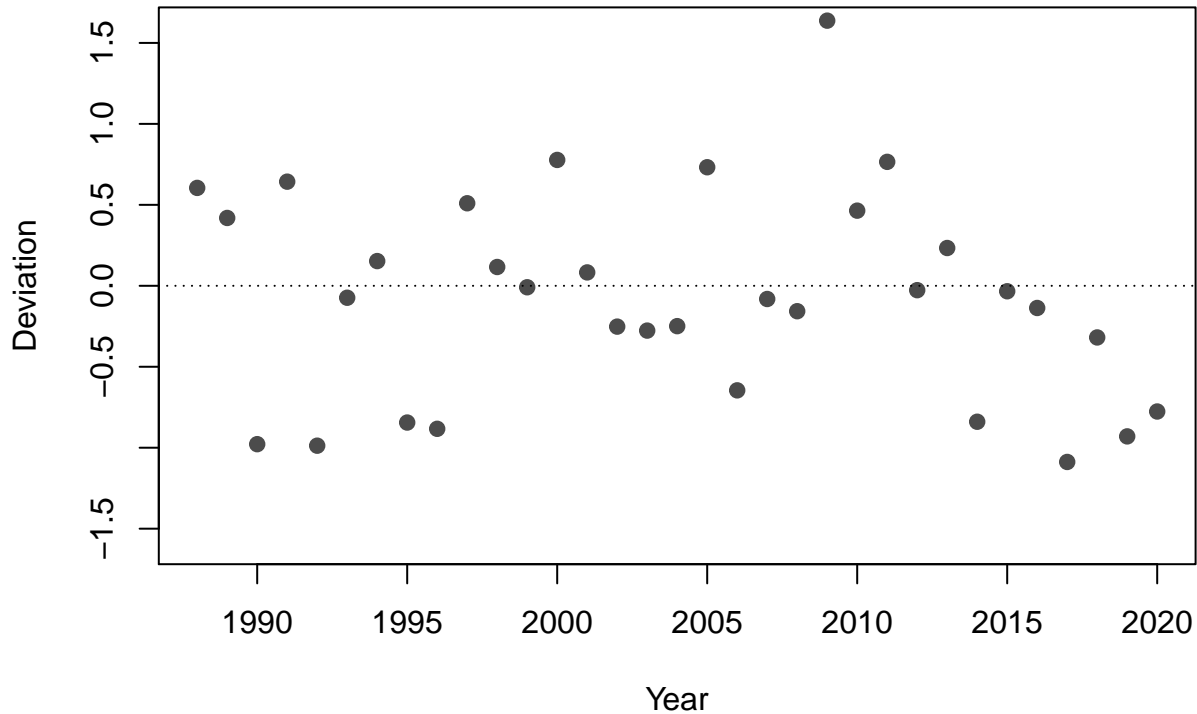


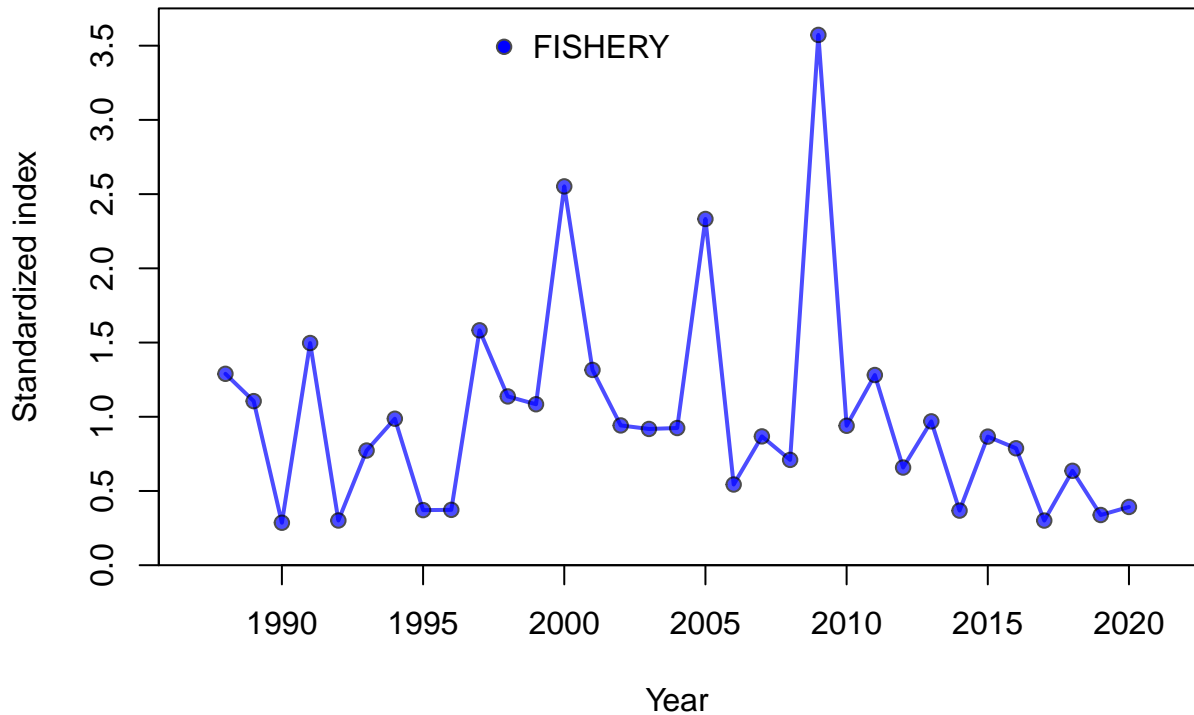
Log expected index

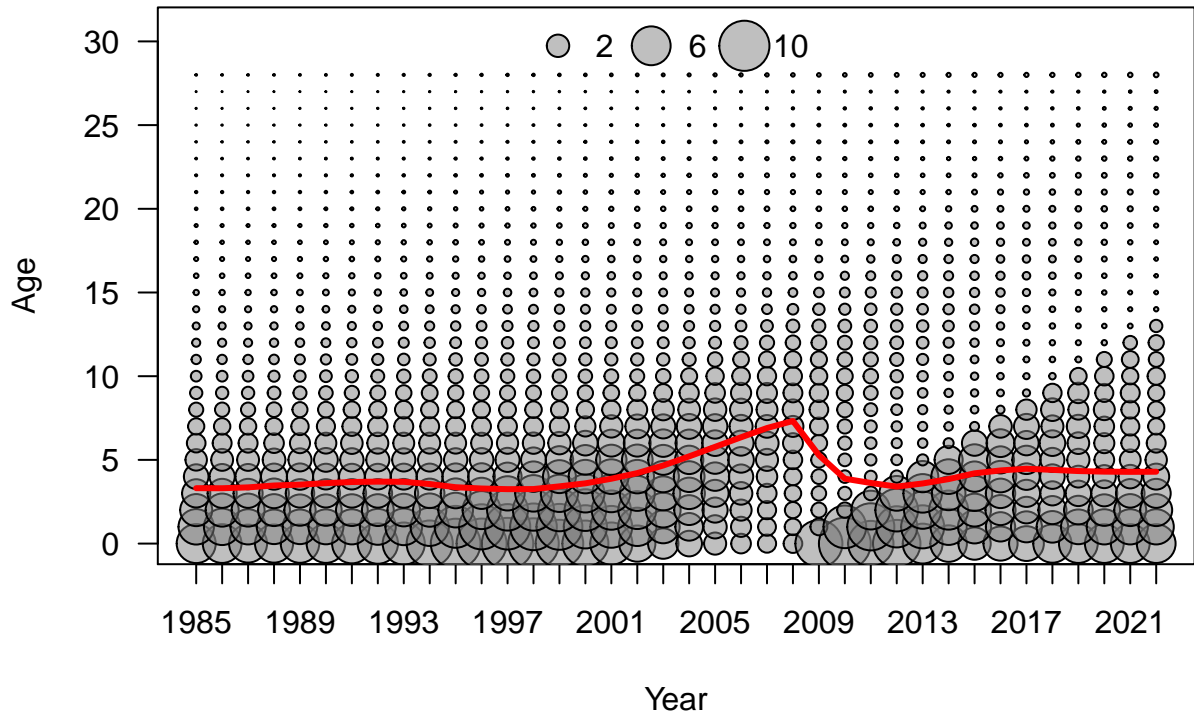


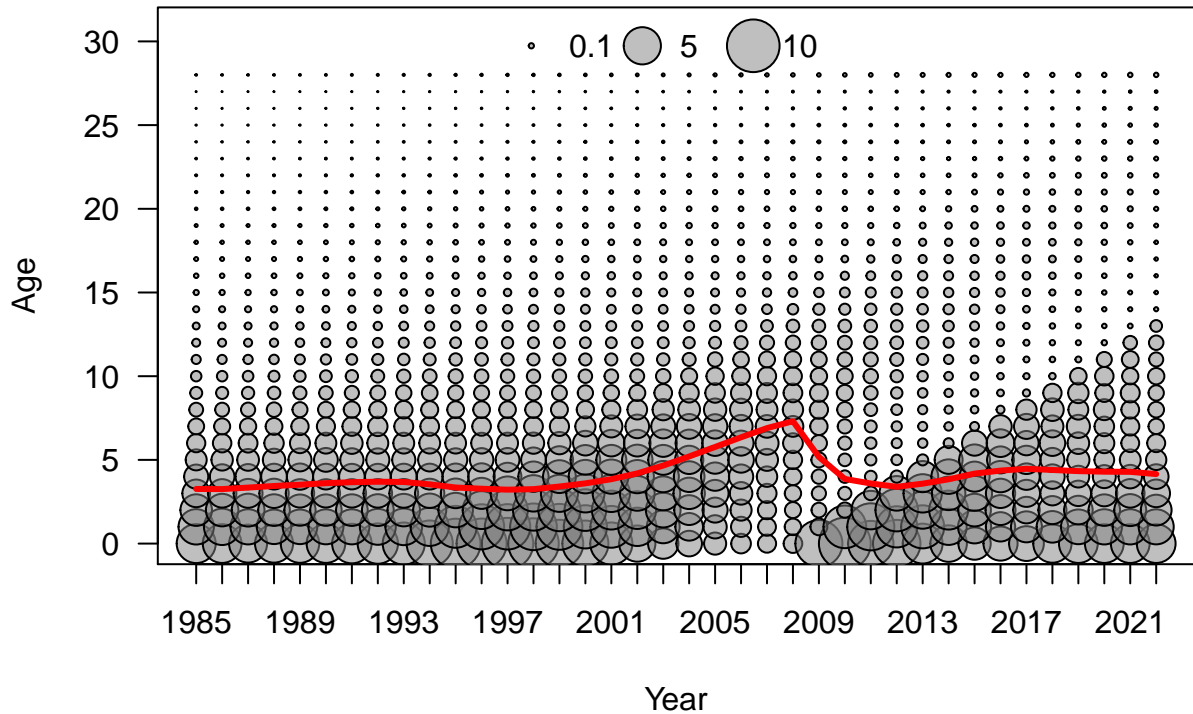


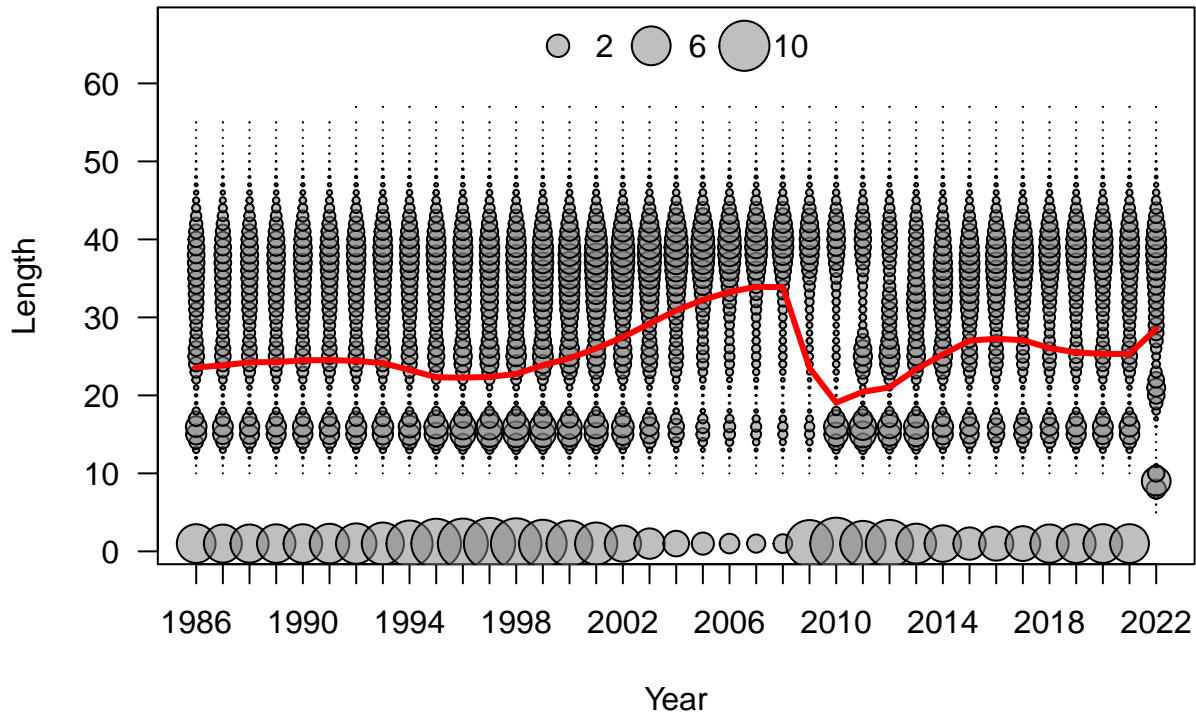


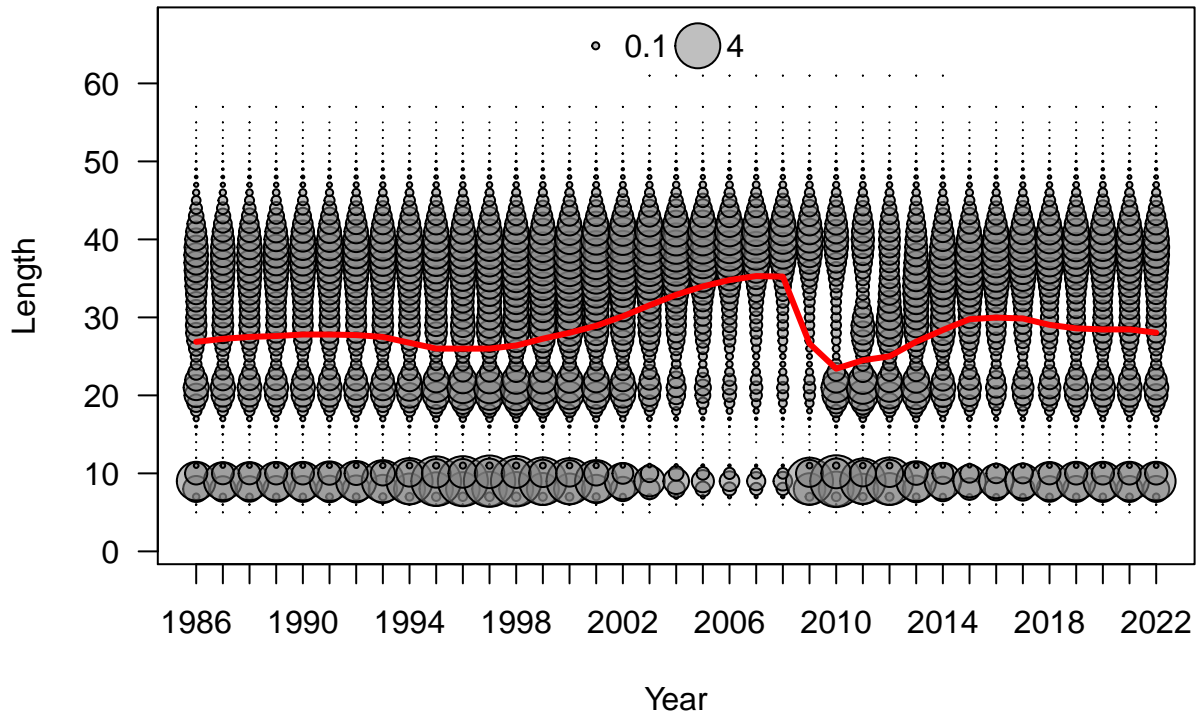


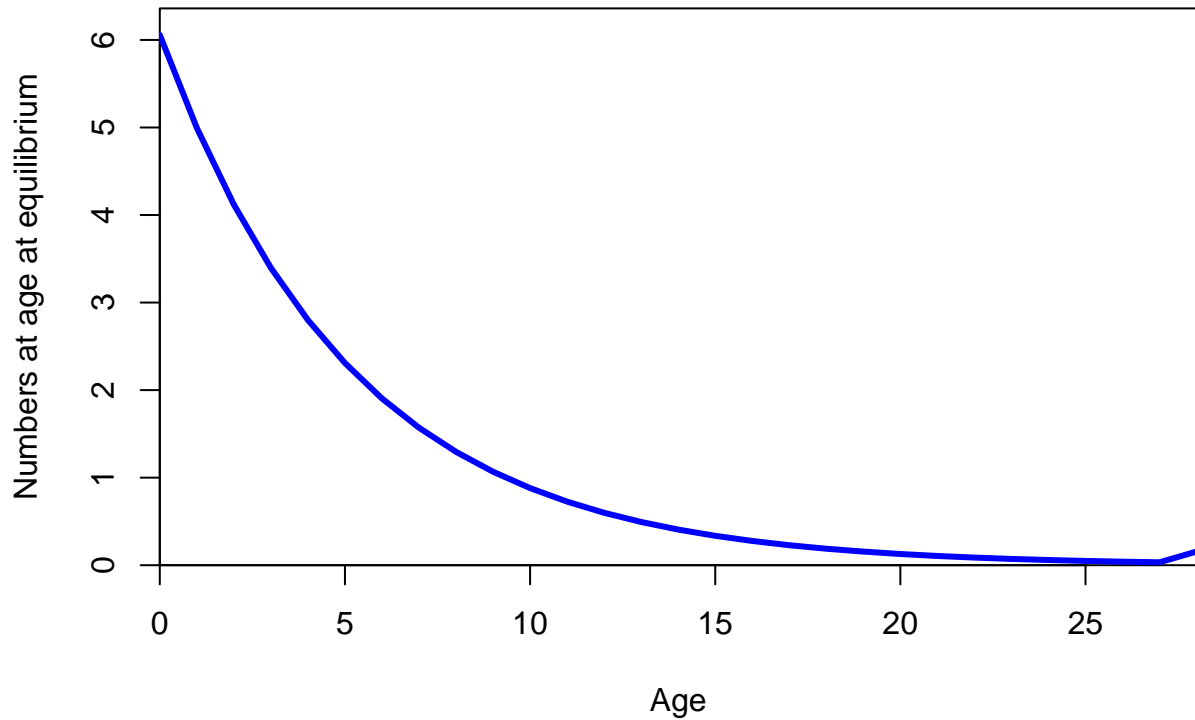




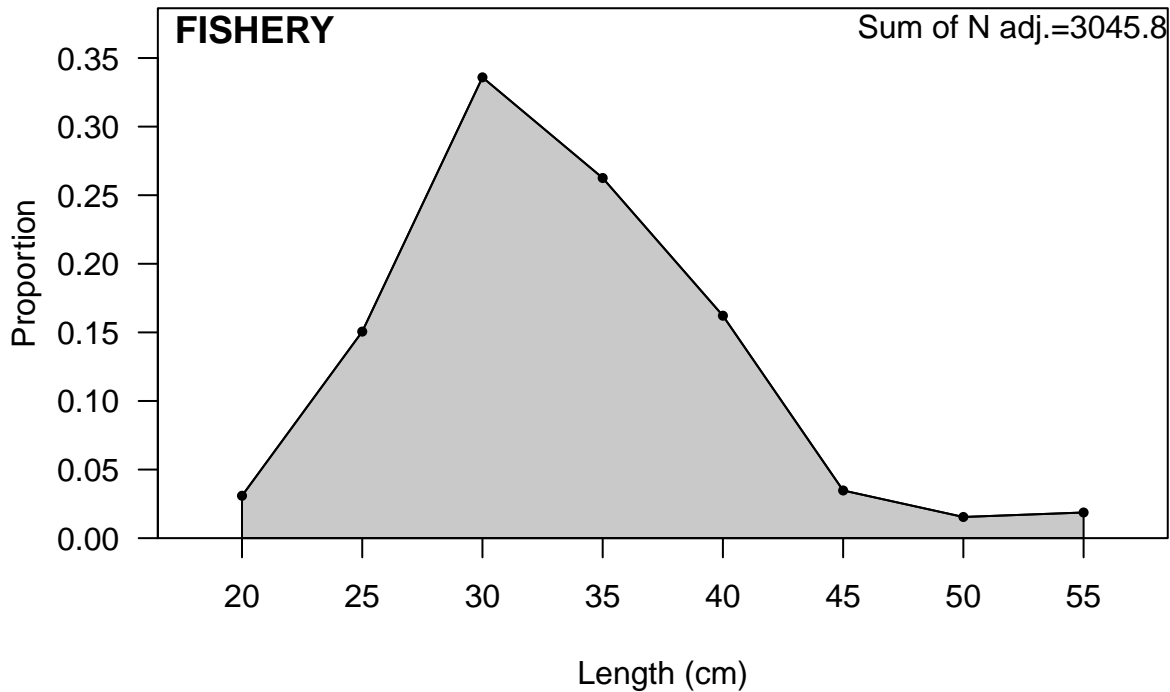


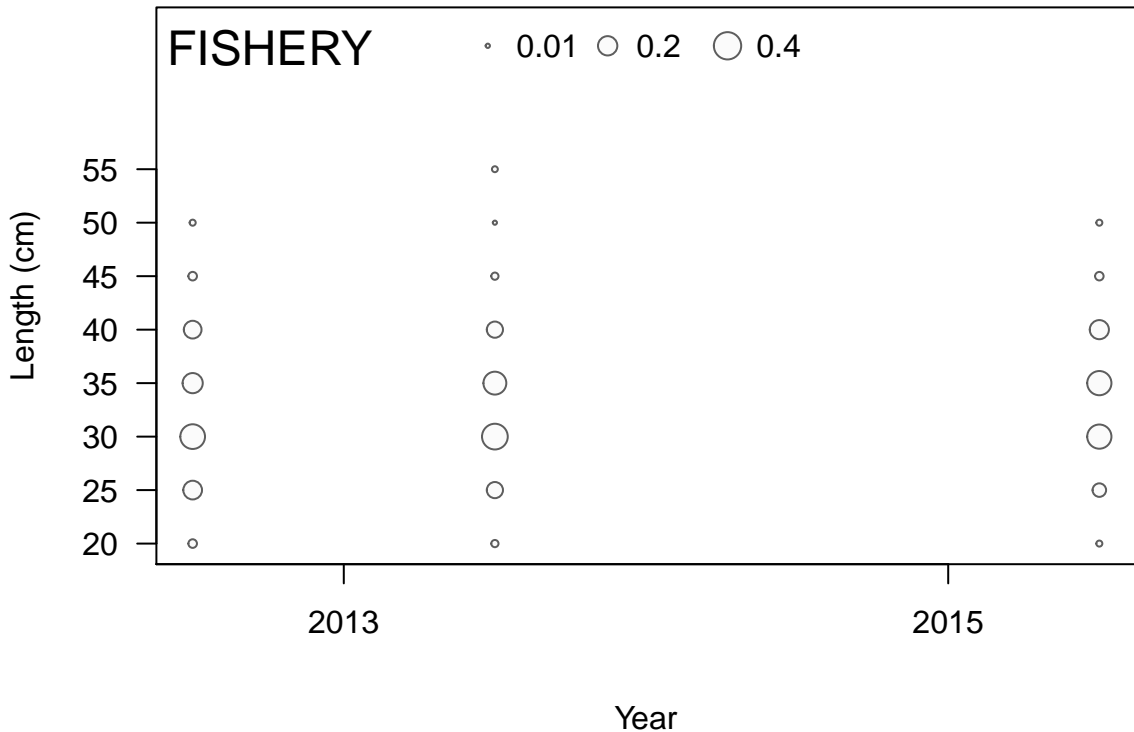




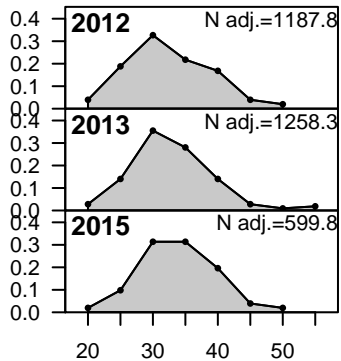




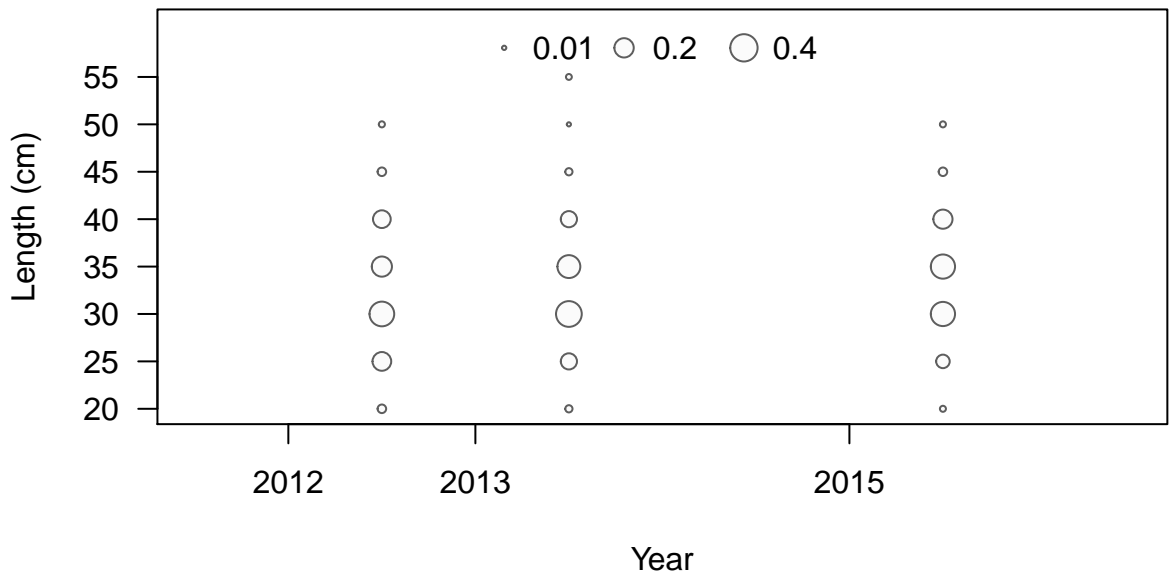




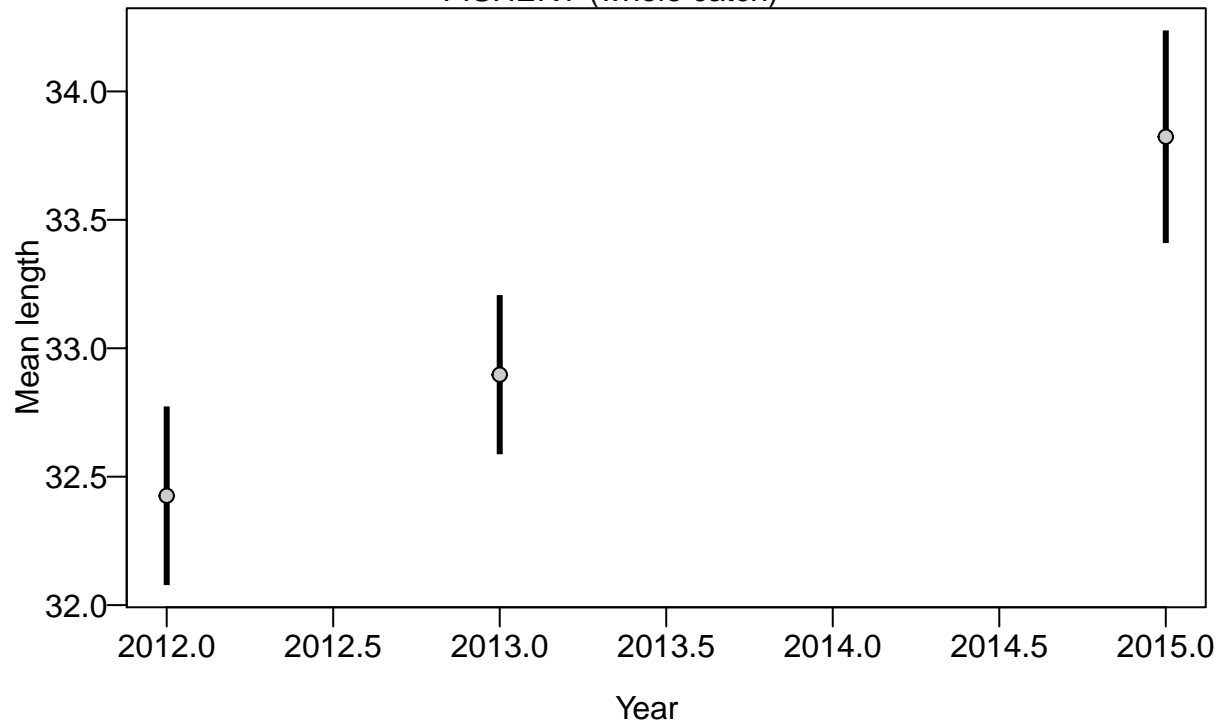
Proportion

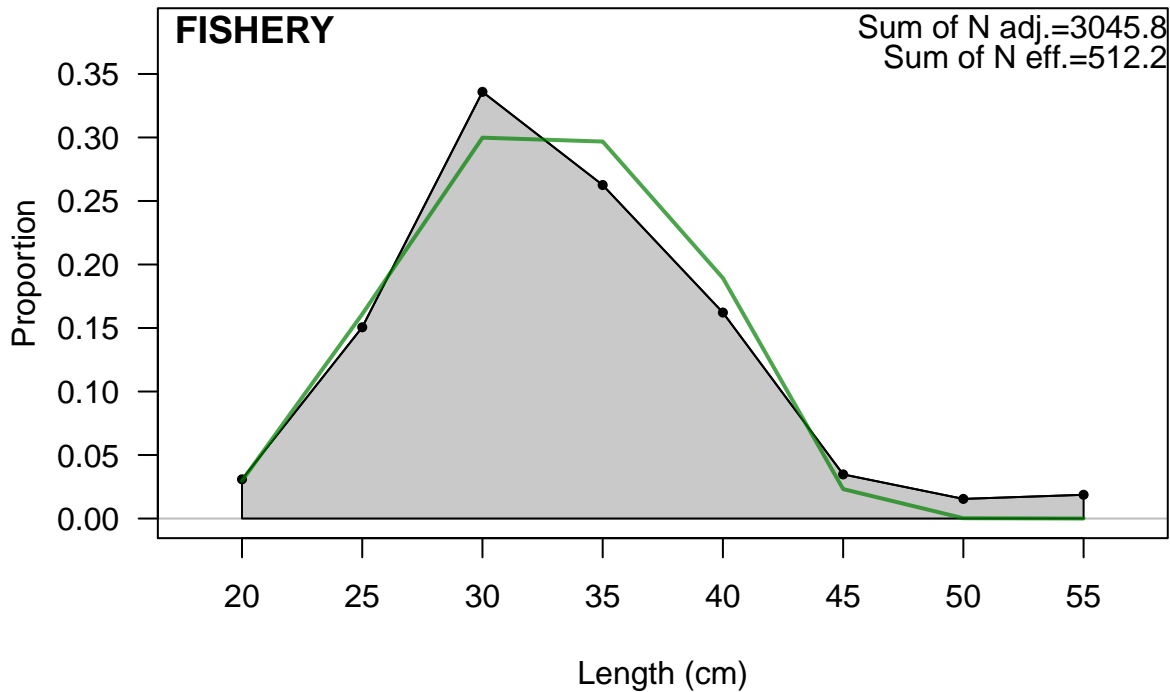


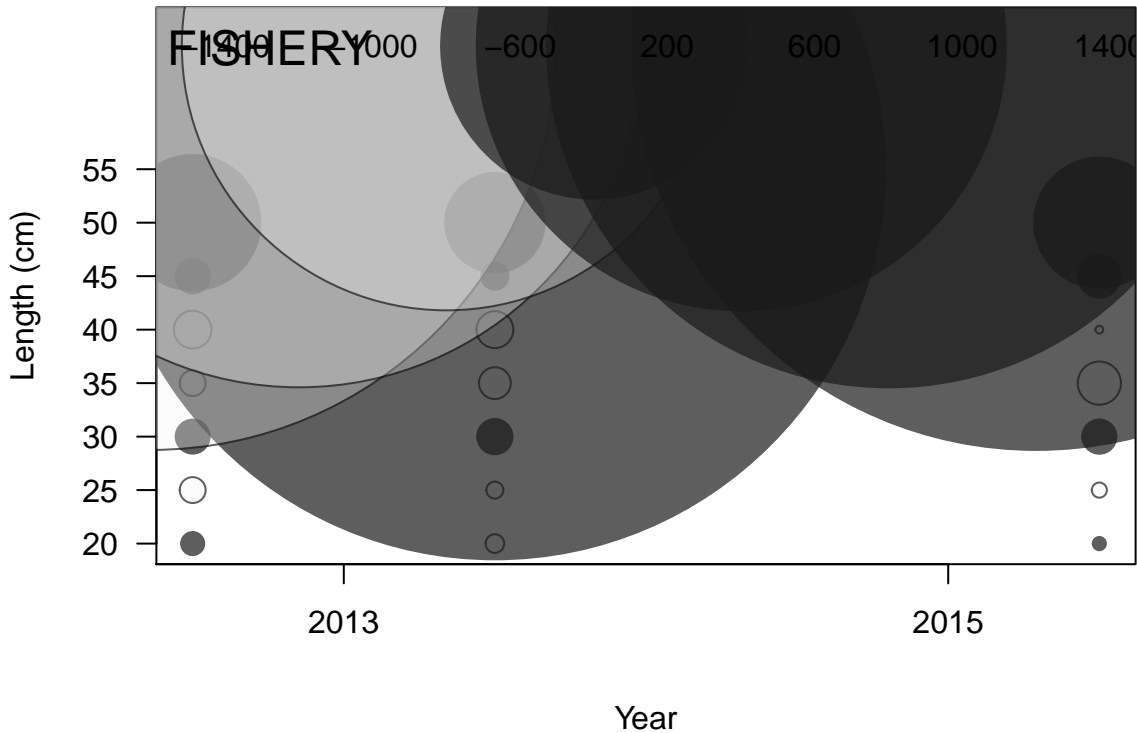
Length (cm)



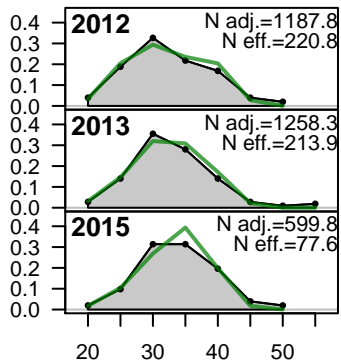
# FISHERY (whole catch)





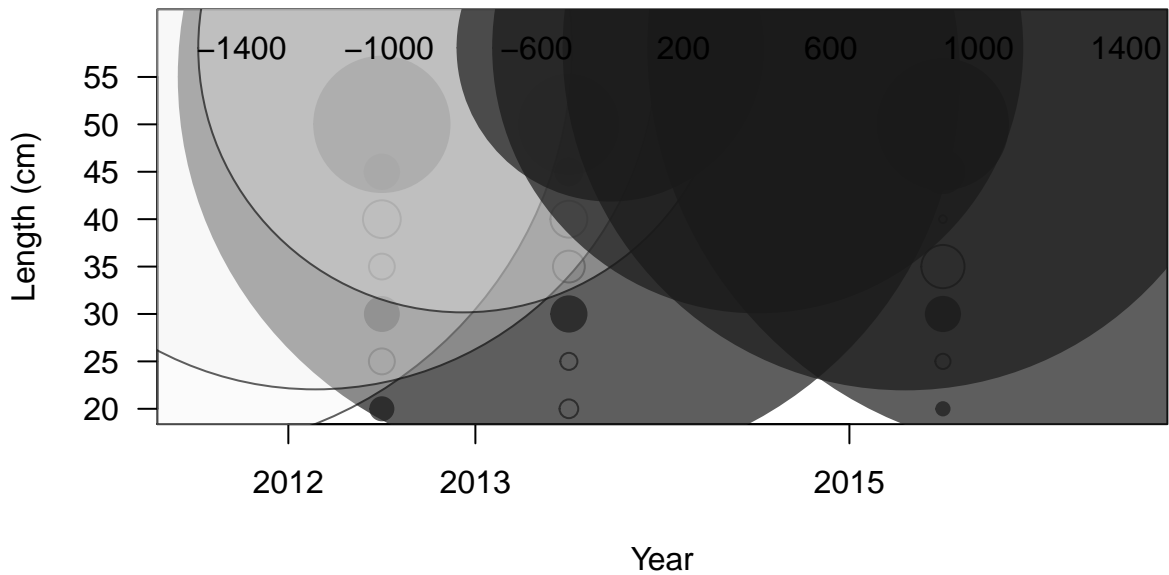


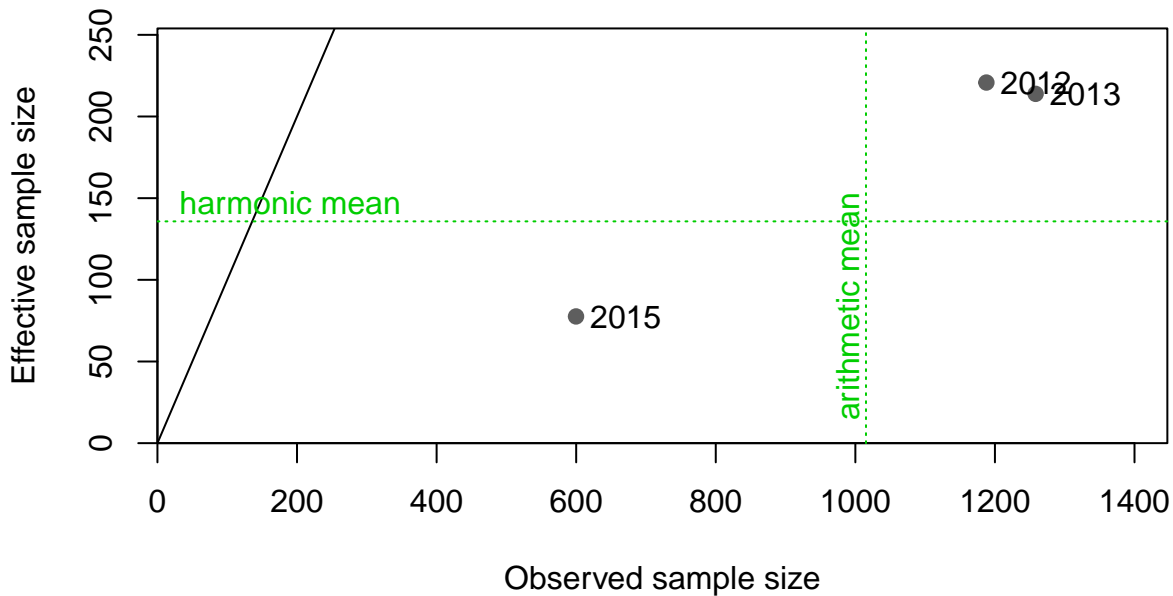
Proportion



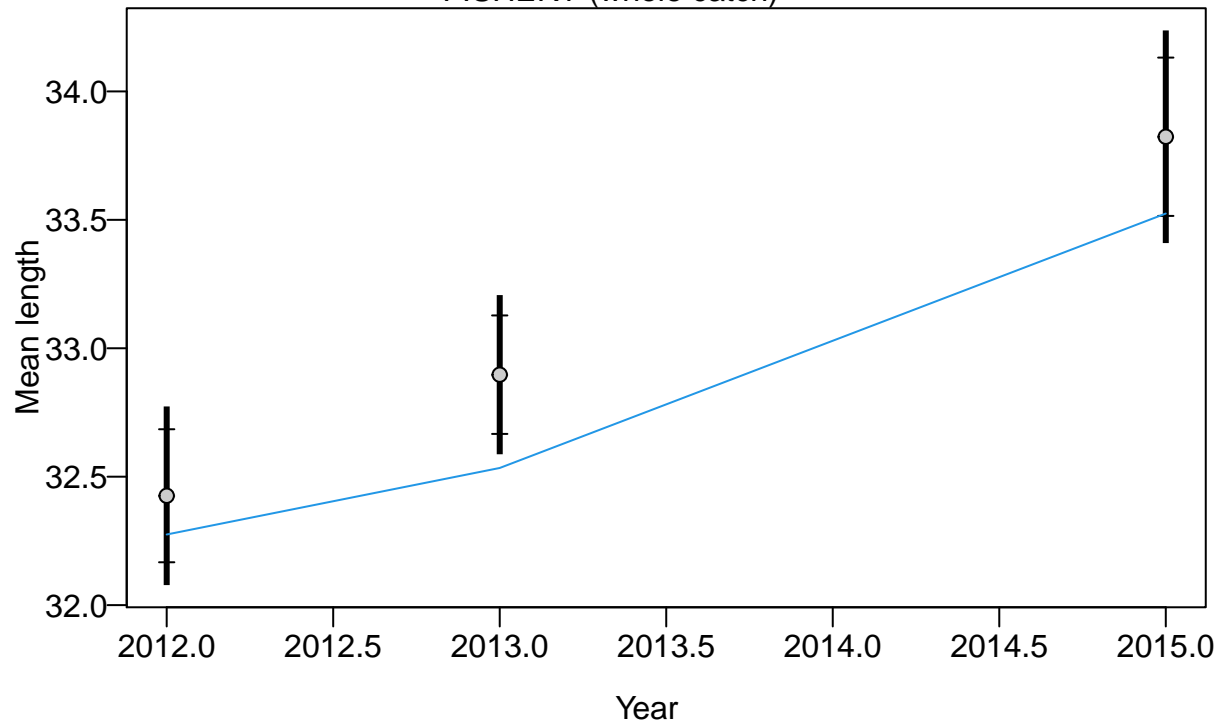
Length (cm)

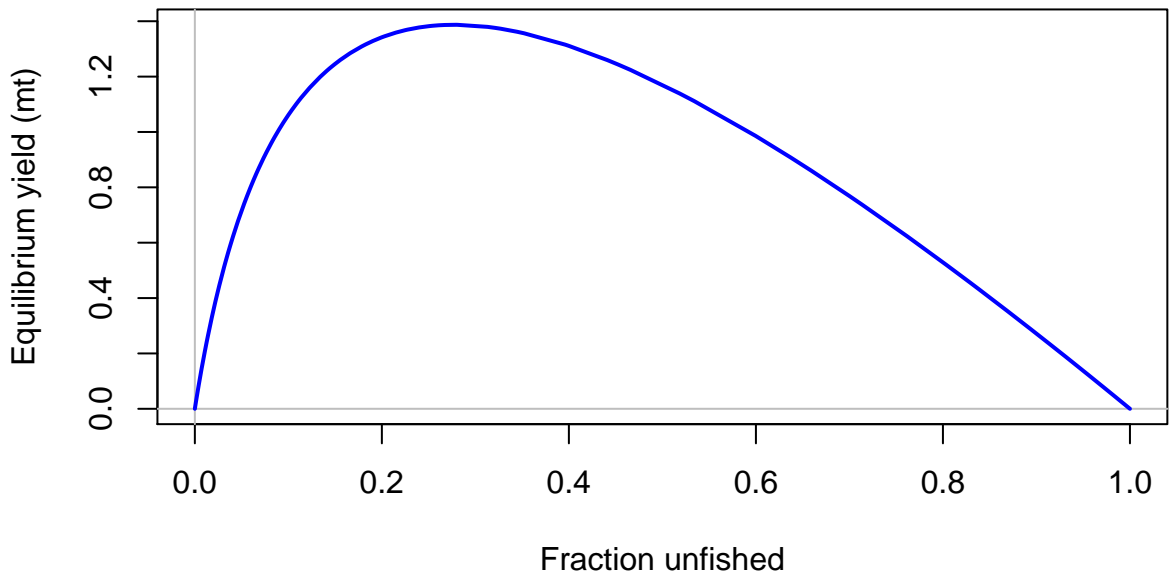


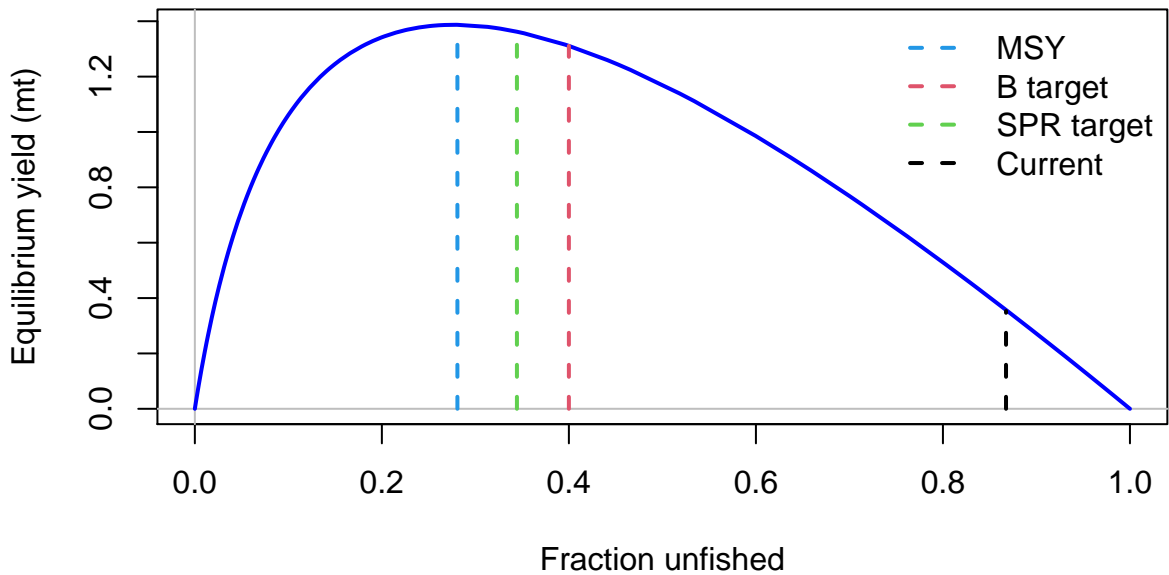


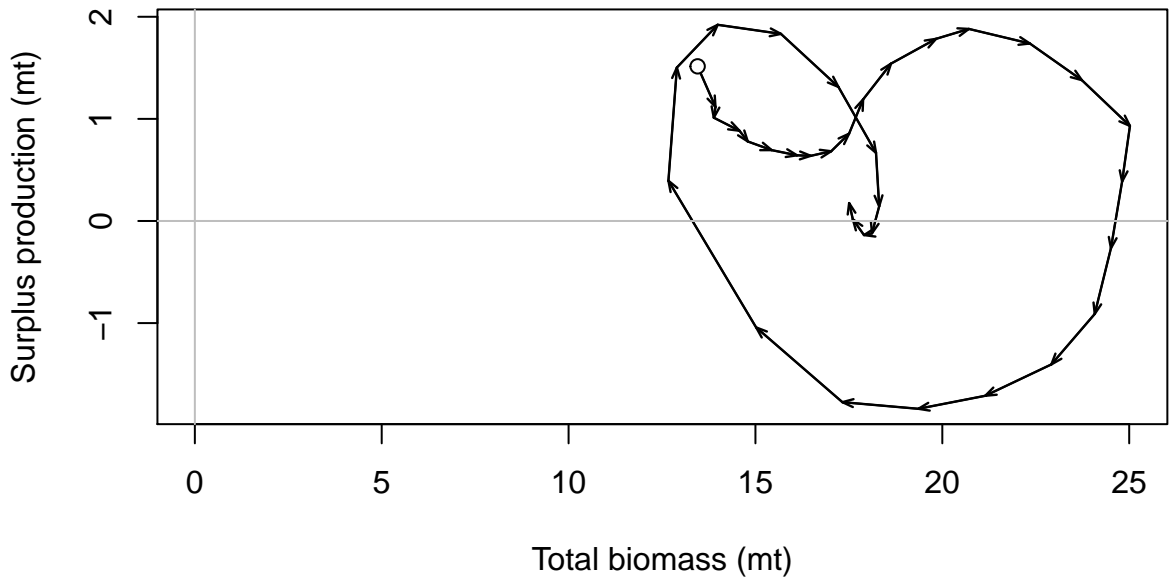


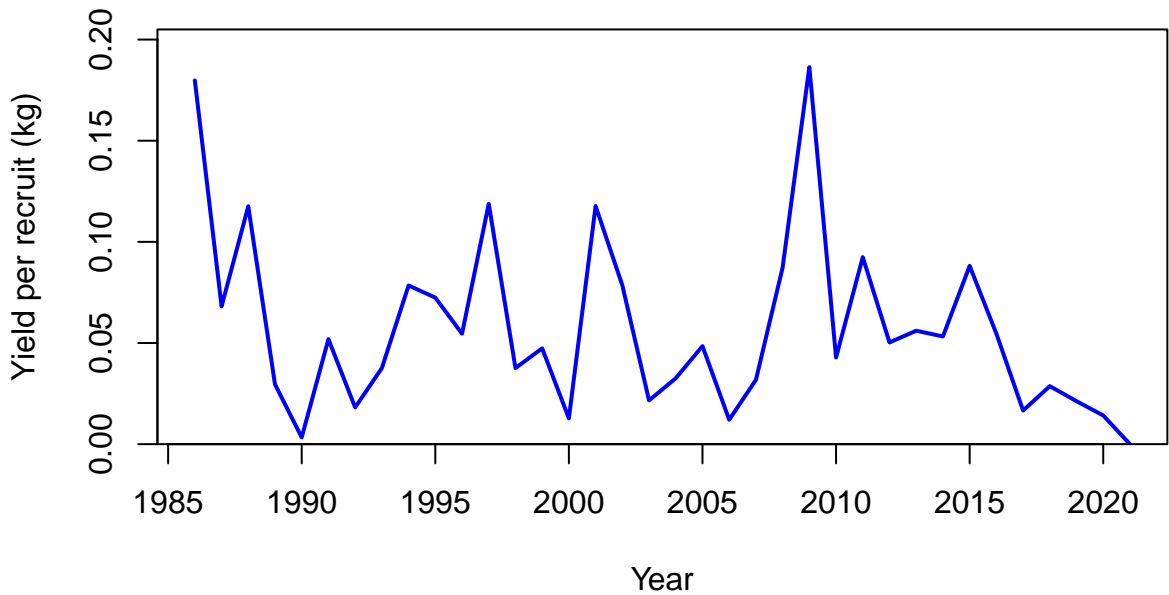
FISHERY (whole catch)

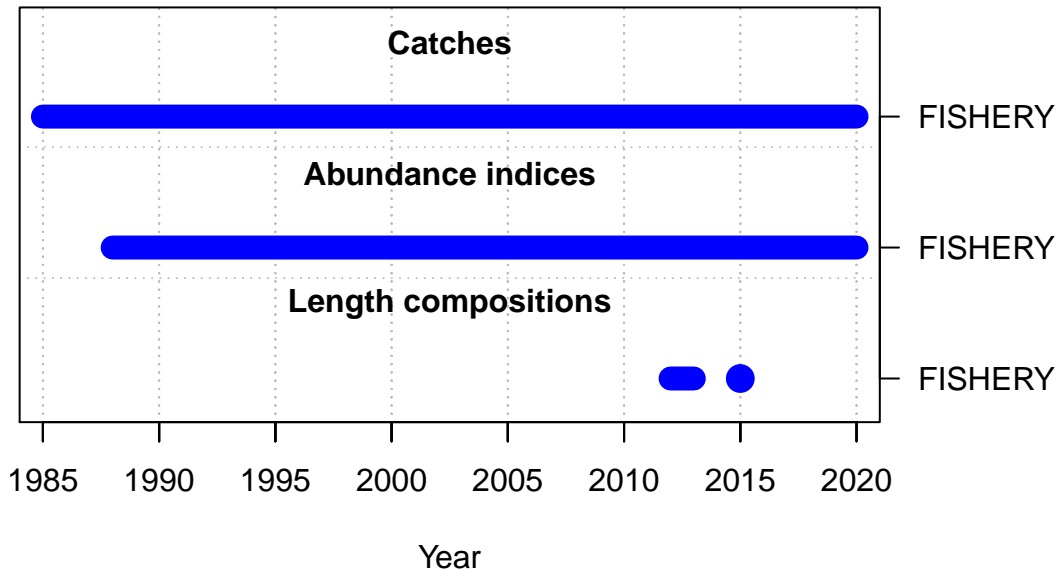




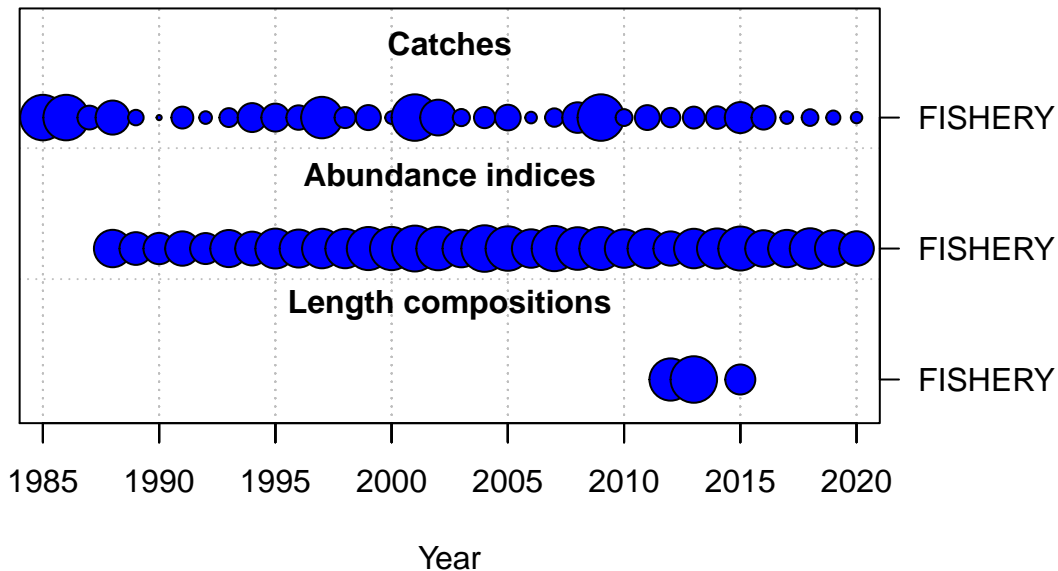




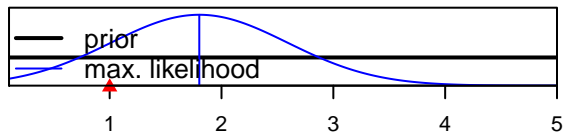




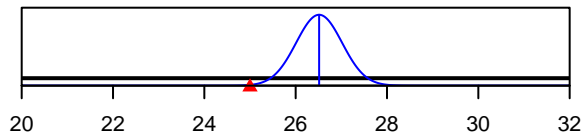




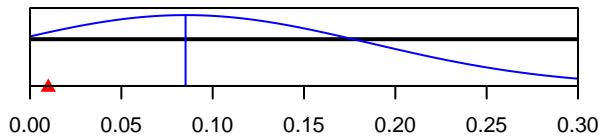
SR\_LN(R0)



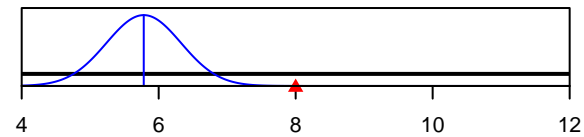
Size\_inflection\_FISHERY(1)



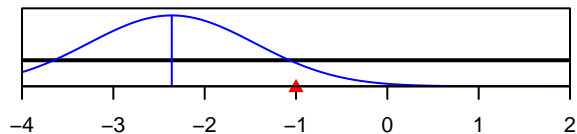
InitF\_seas\_1\_flt\_1FISHERY



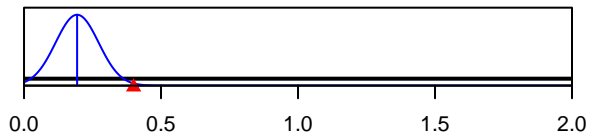
Size\_95%width\_FISHERY(1)



LnQ\_base\_FISHERY(1)



Q\_extraSD\_FISHERY(1)



Parameter value