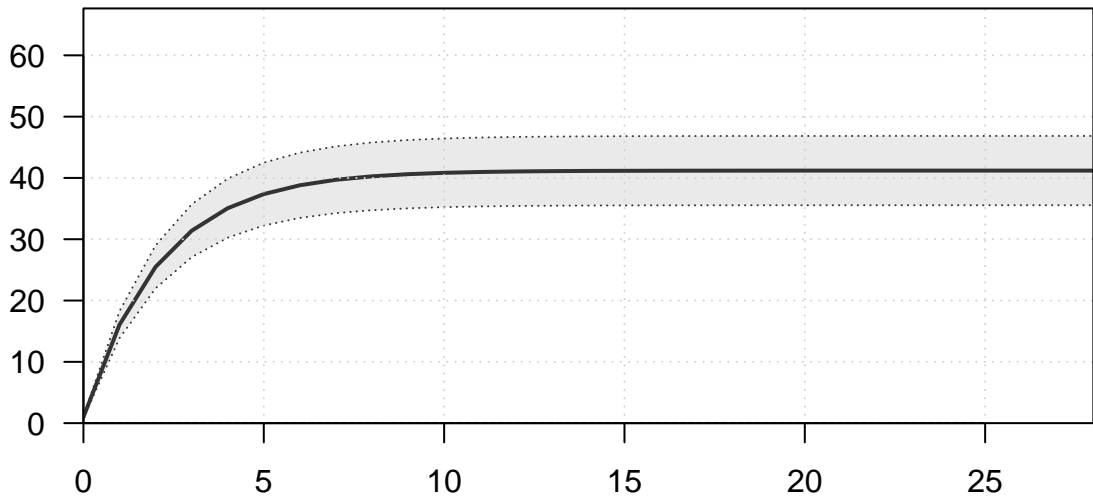
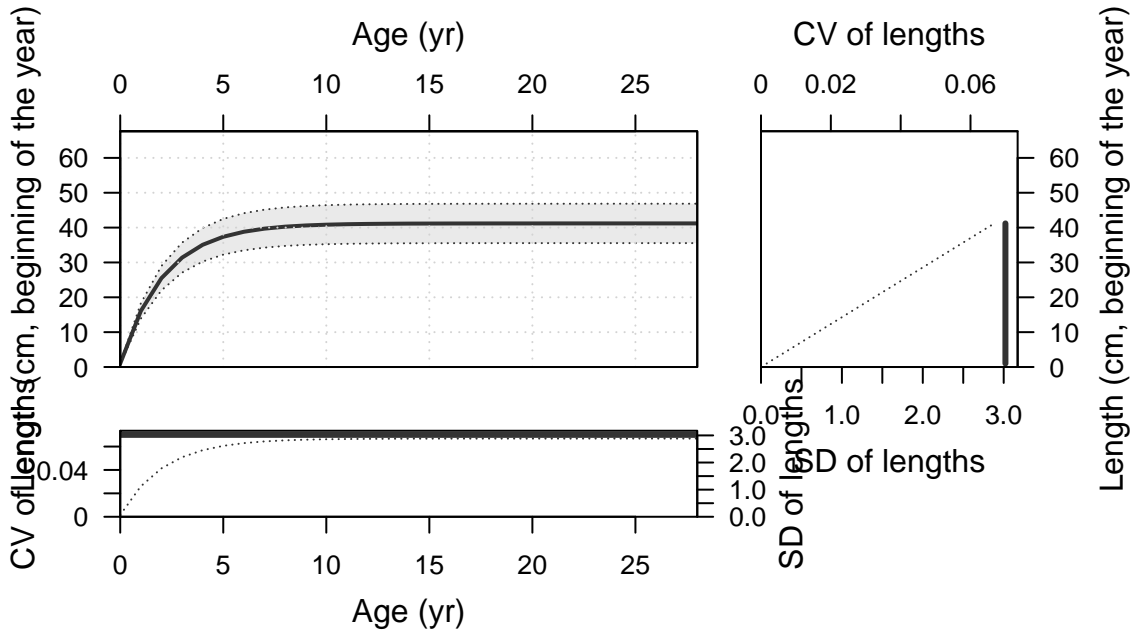


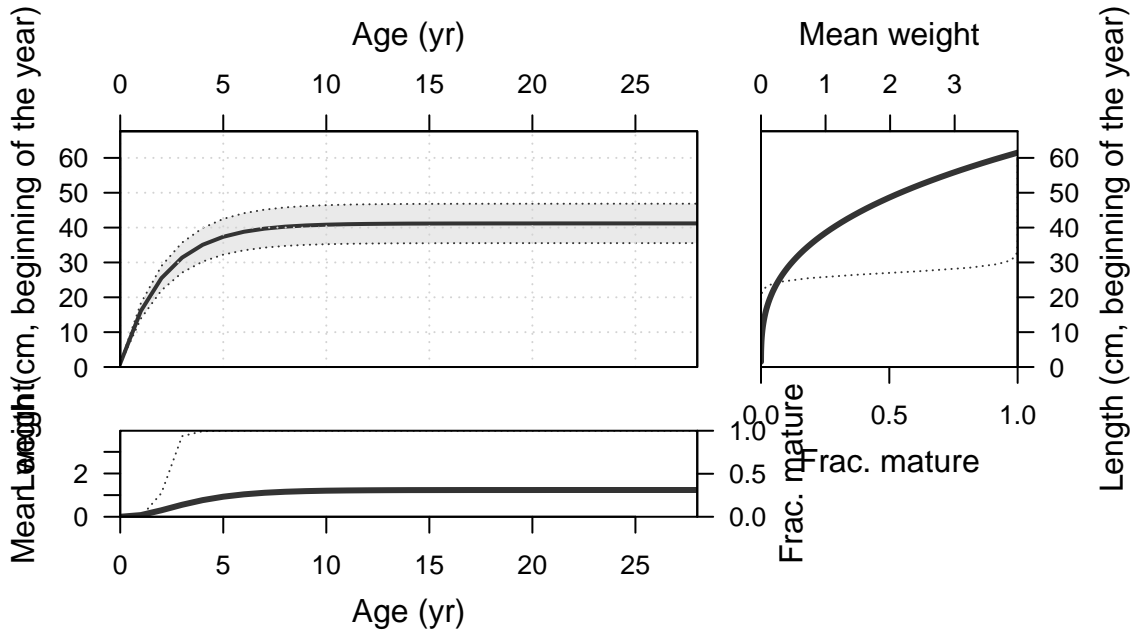
Plots created using the 'r4ss' package in R  
Stock Synthesis version: 3.30.19.0  
StartTime: Thu Jul 28 10:27:57 2022  
Data\_File: data.ss  
Control\_File: control.ss

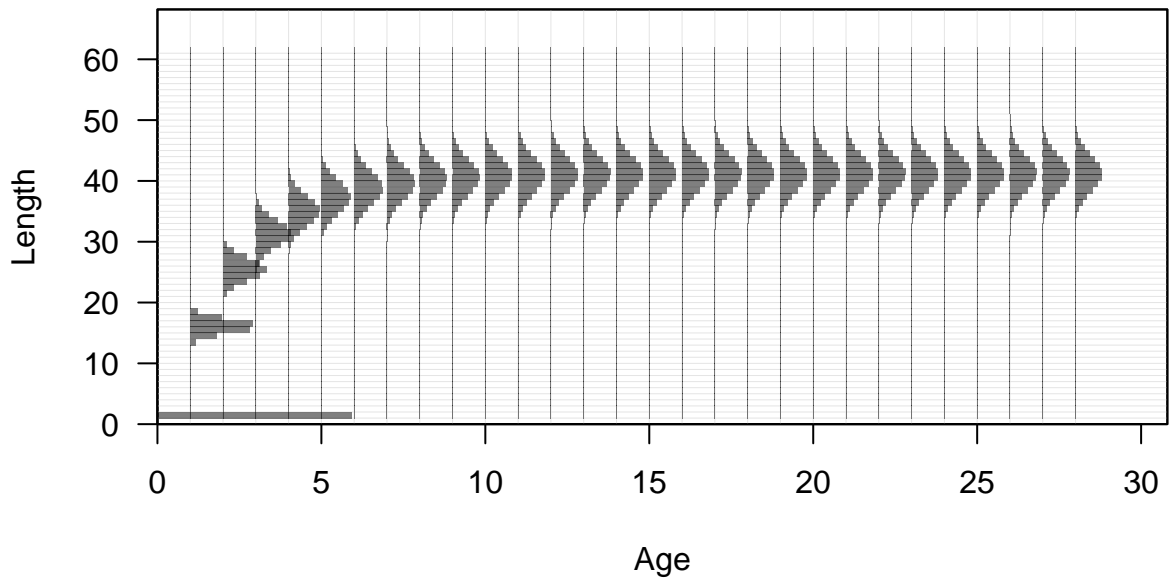
Length (cm, beginning of the year)

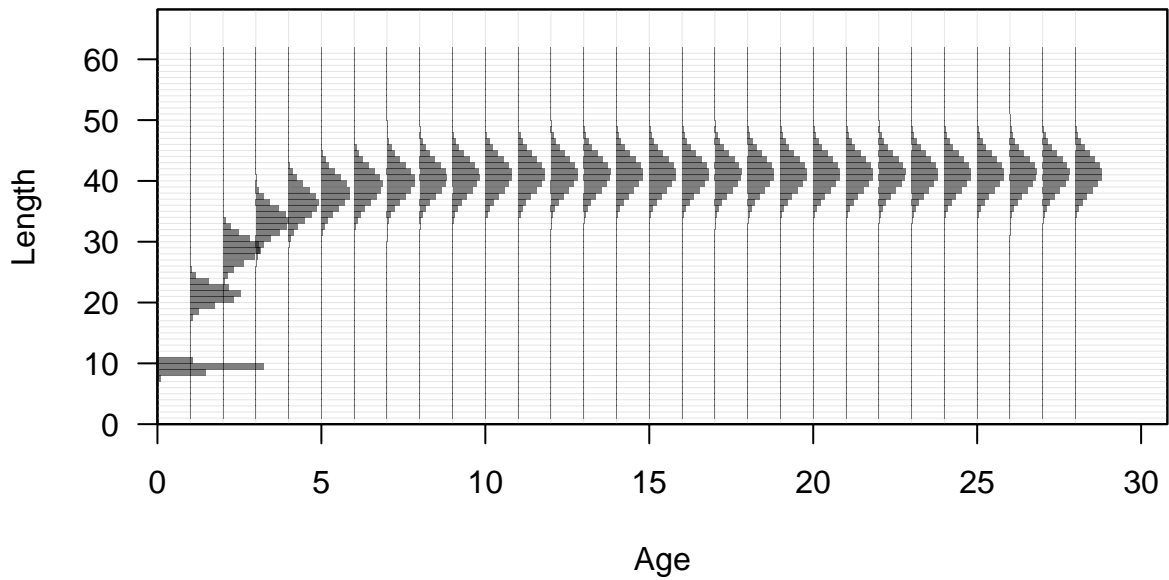


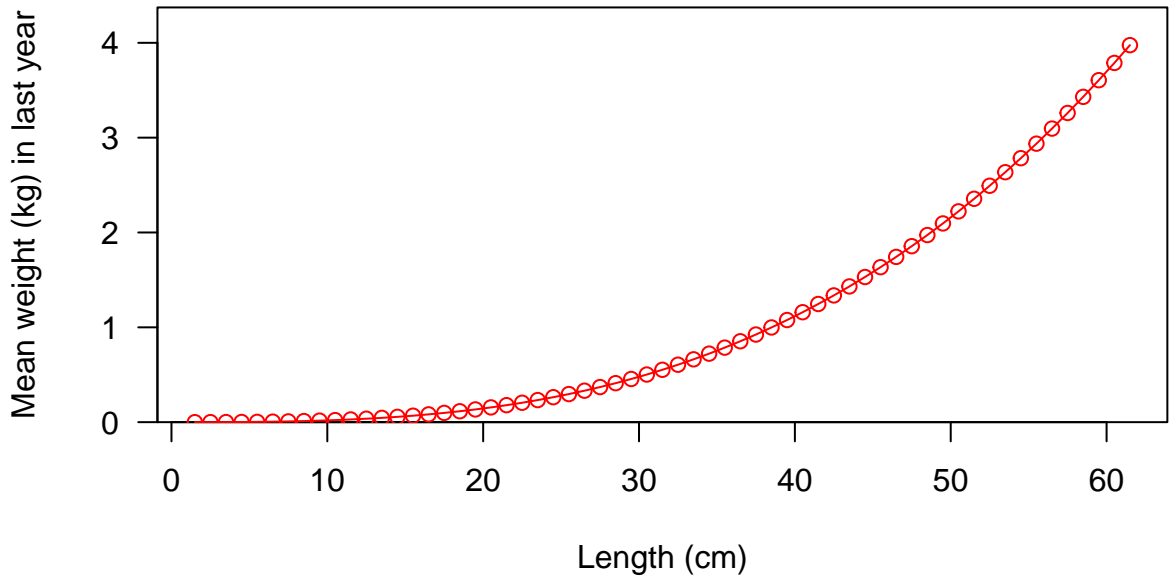
Age (yr)

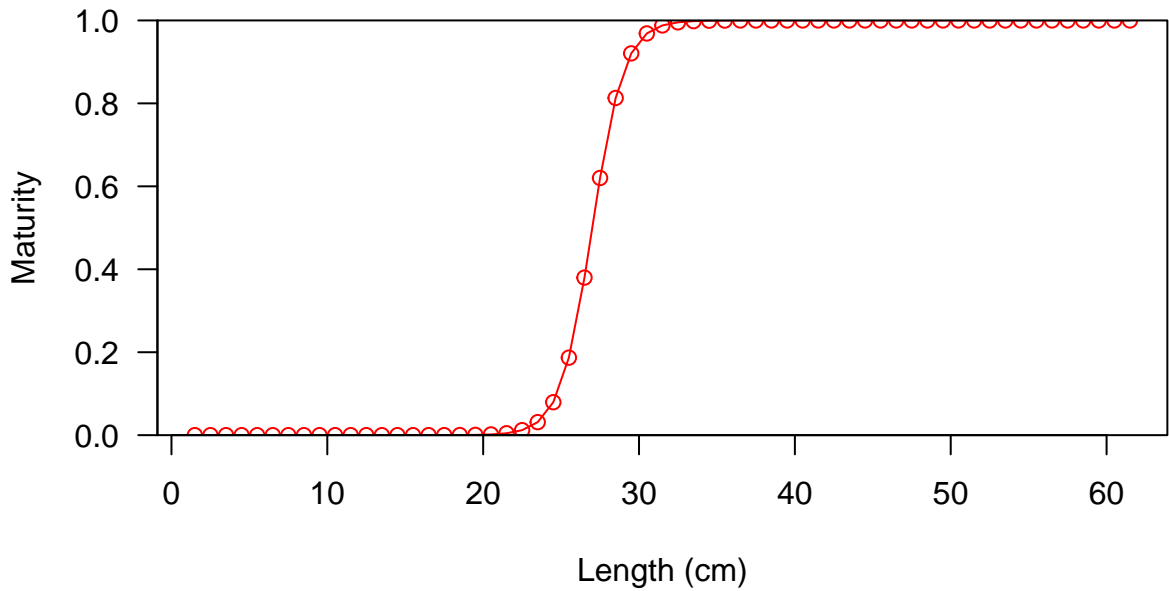




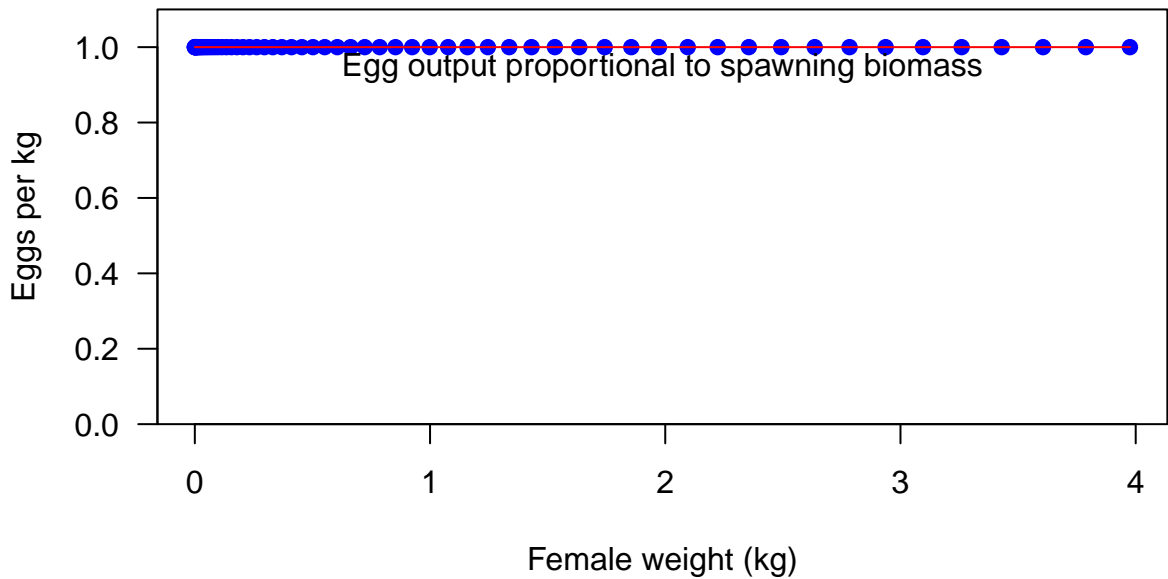




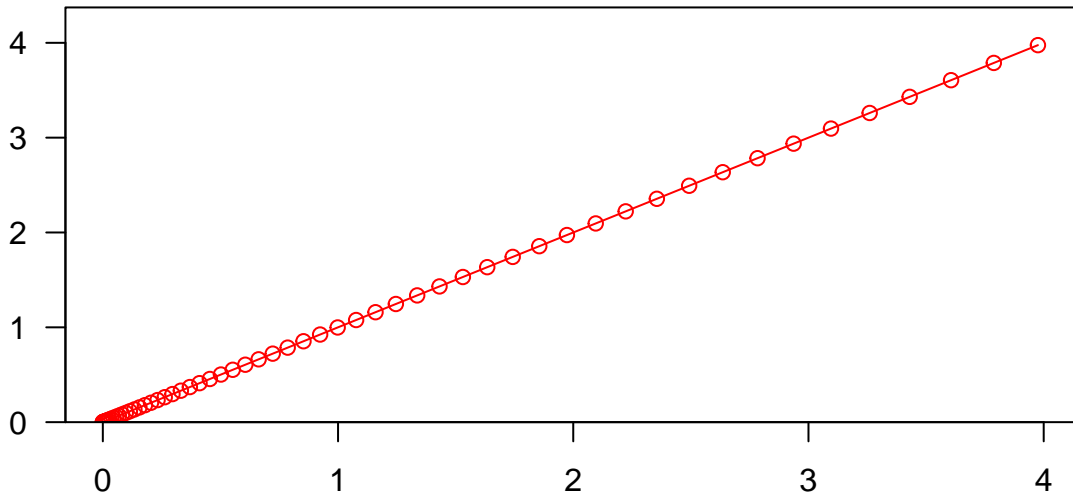






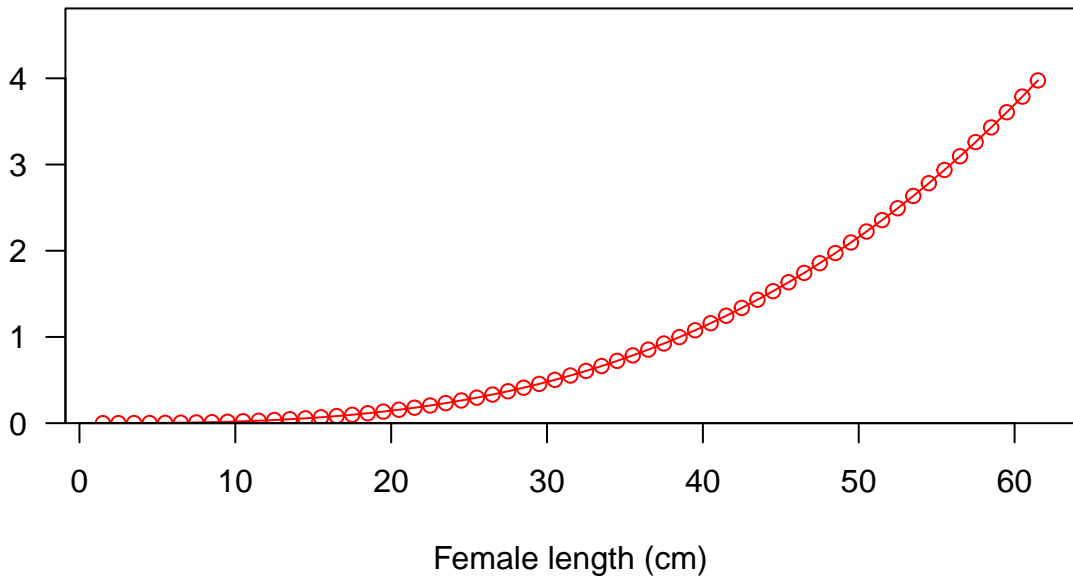


Fecundity

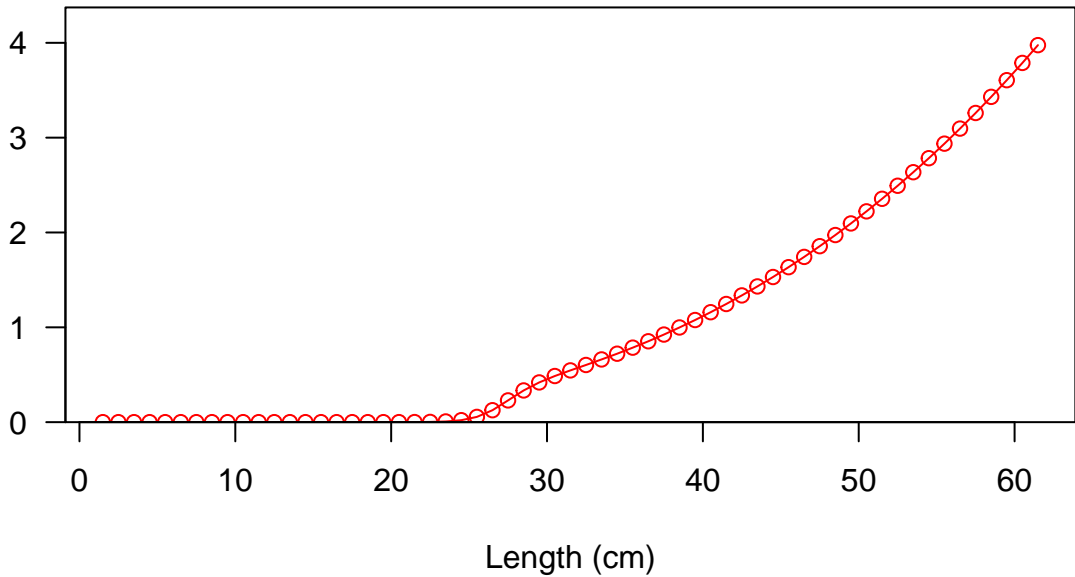


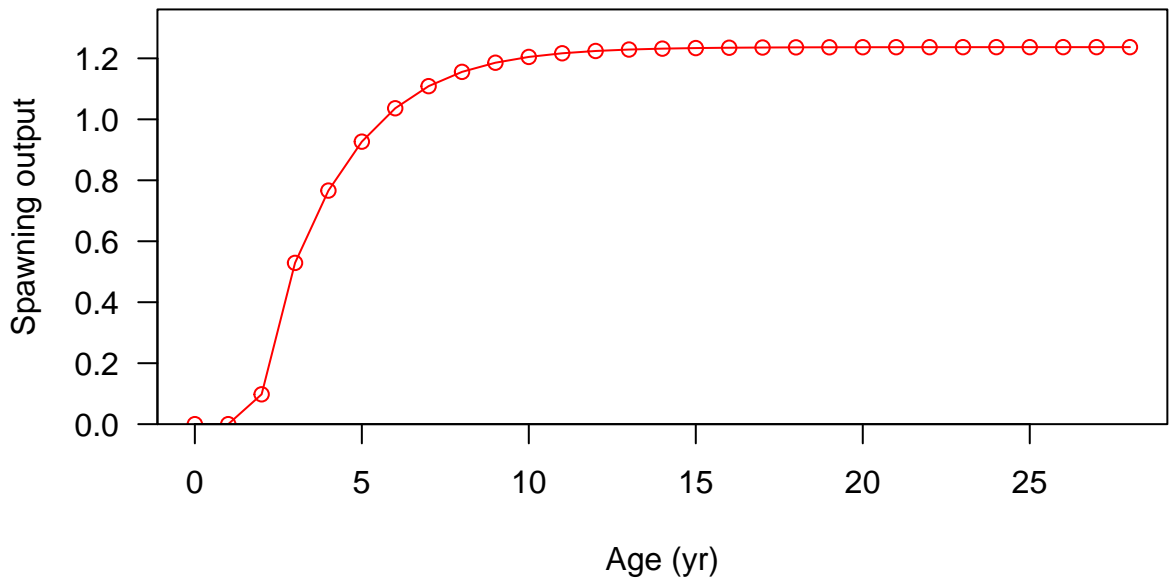
Female weight (kg)

Fecundity

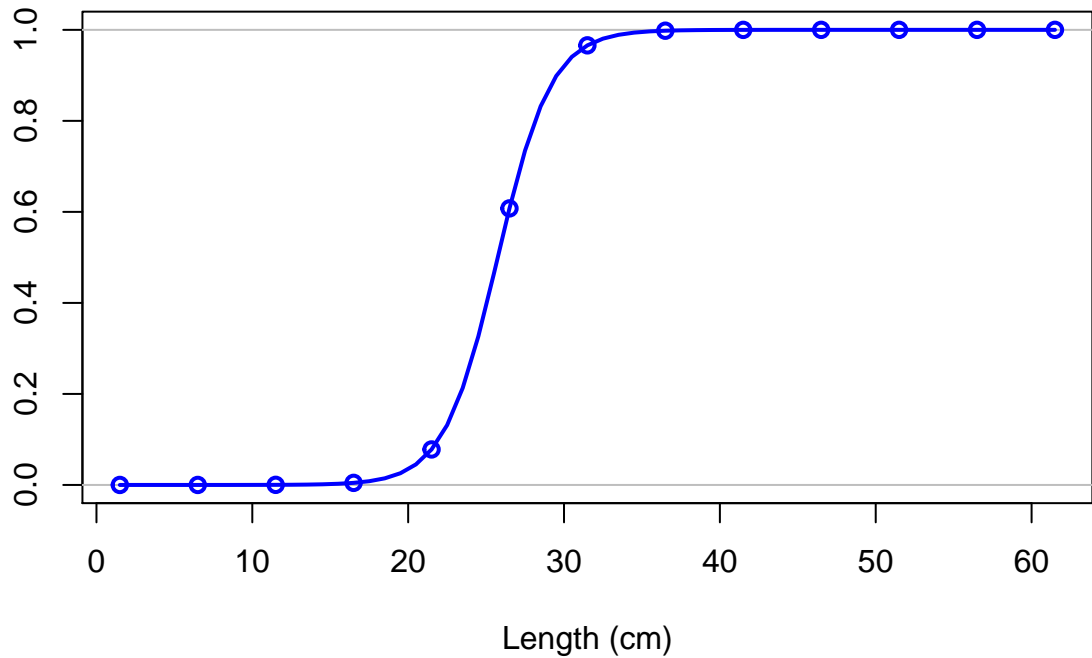


Spawning output

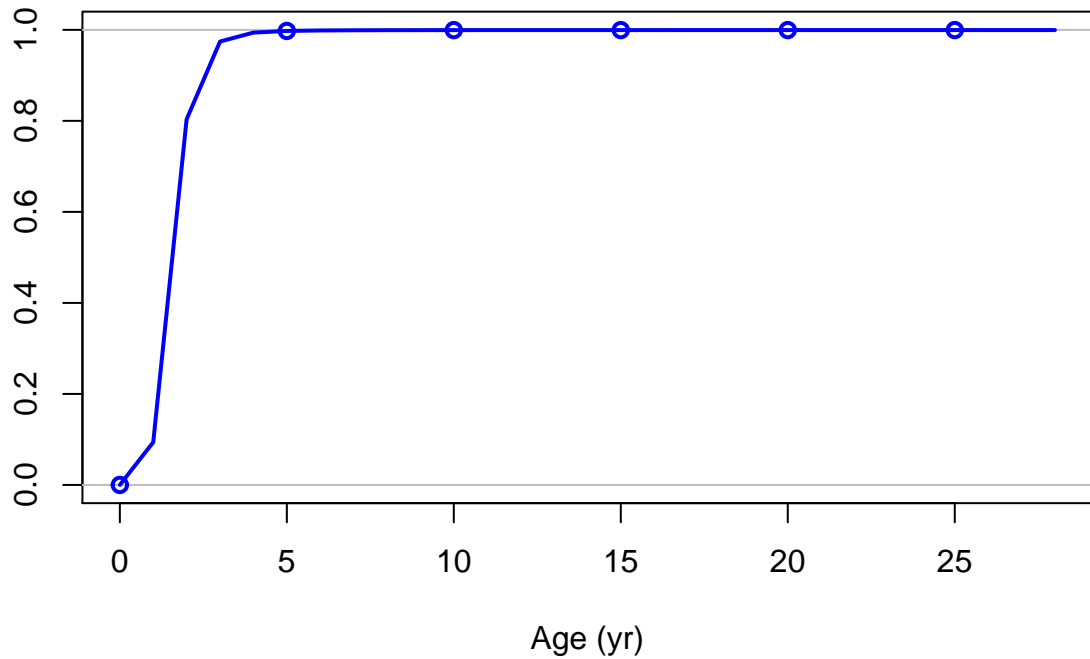




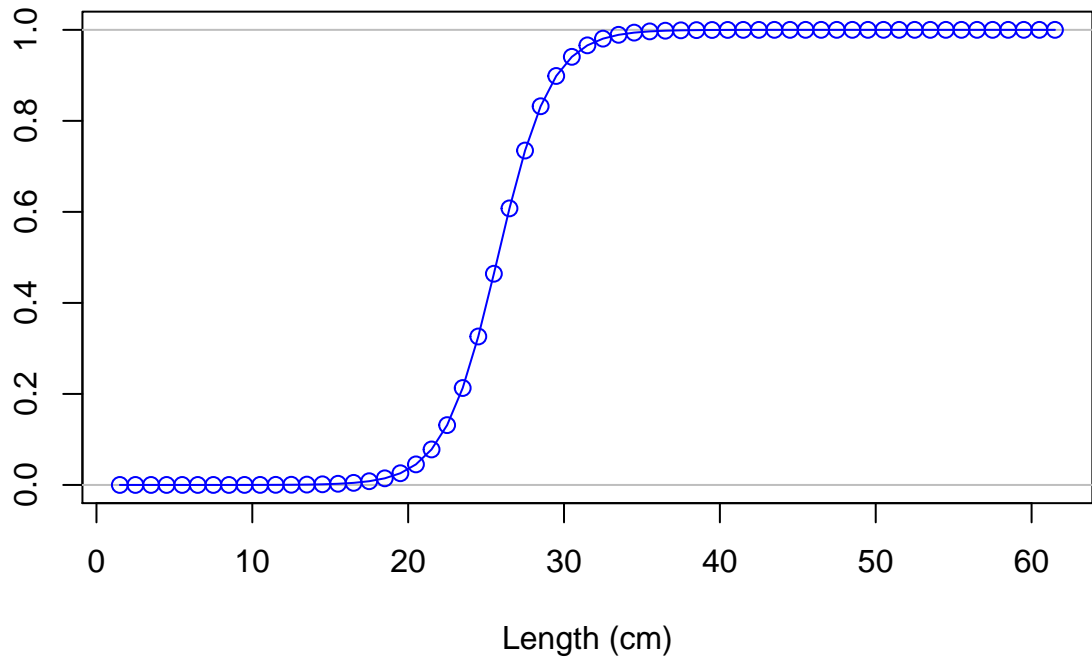
Selectivity



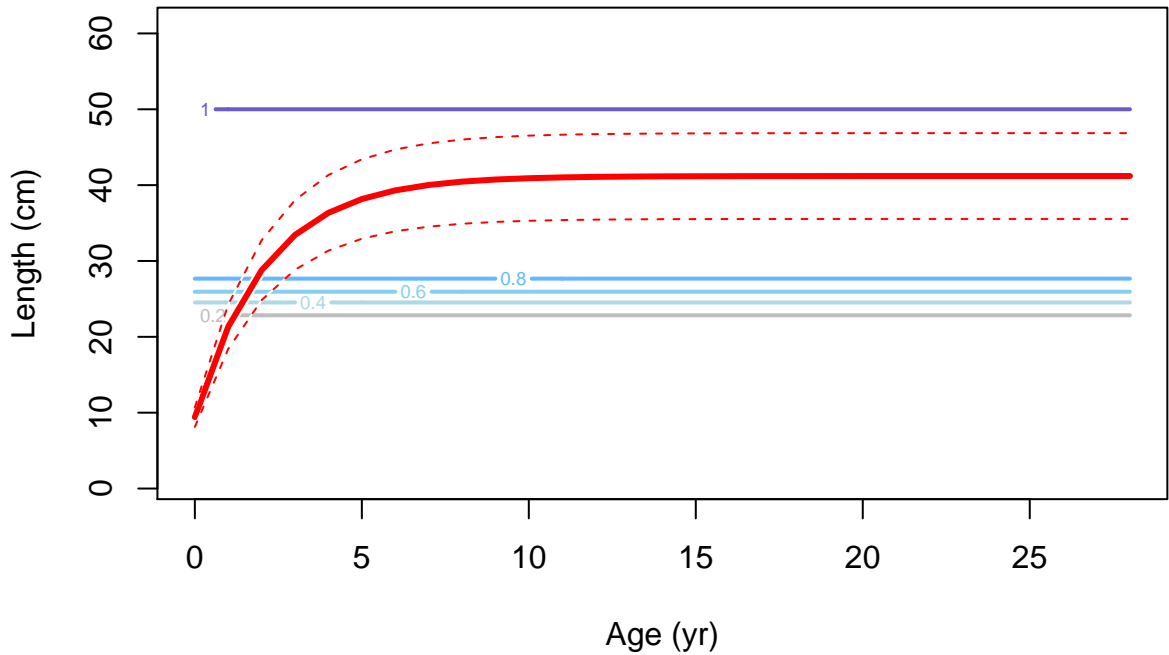
Selectivity

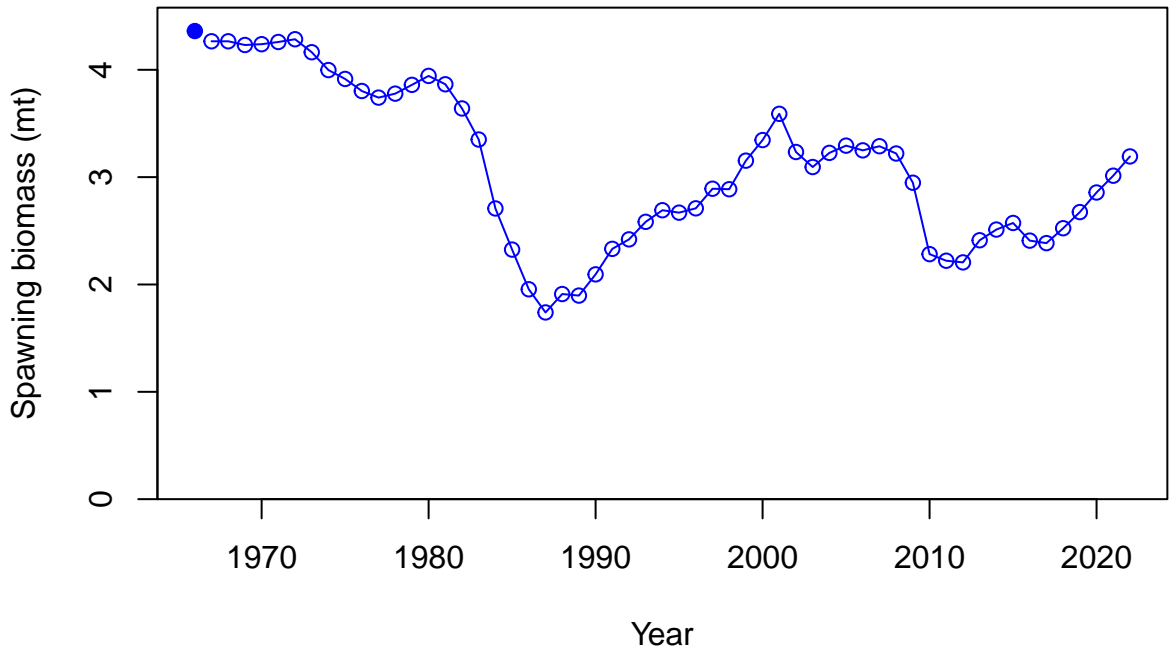


Selectivity

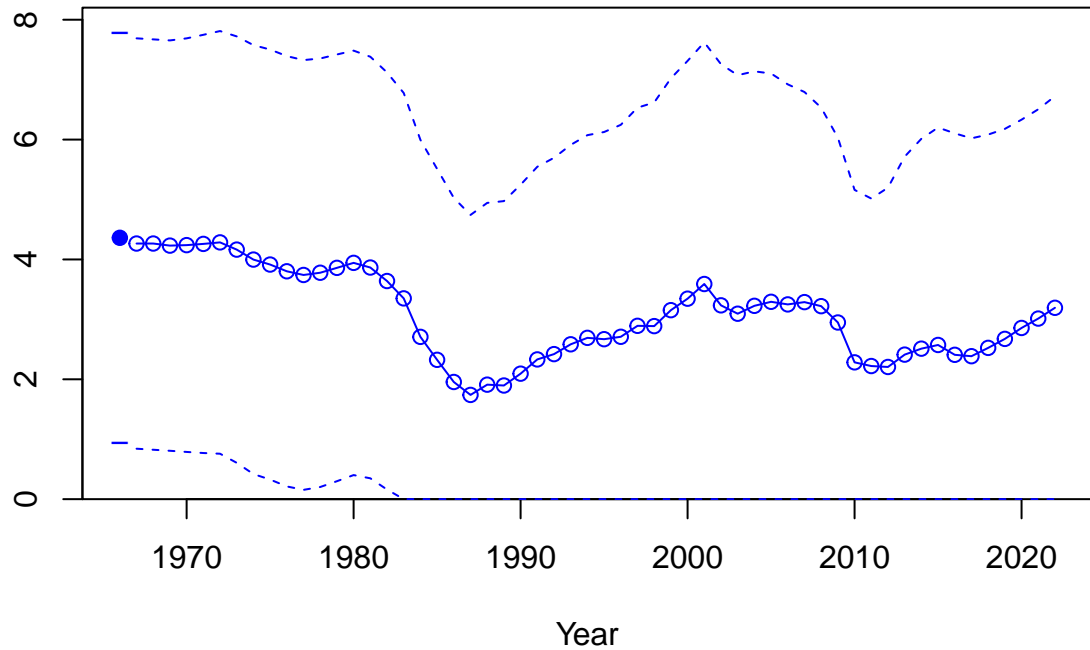




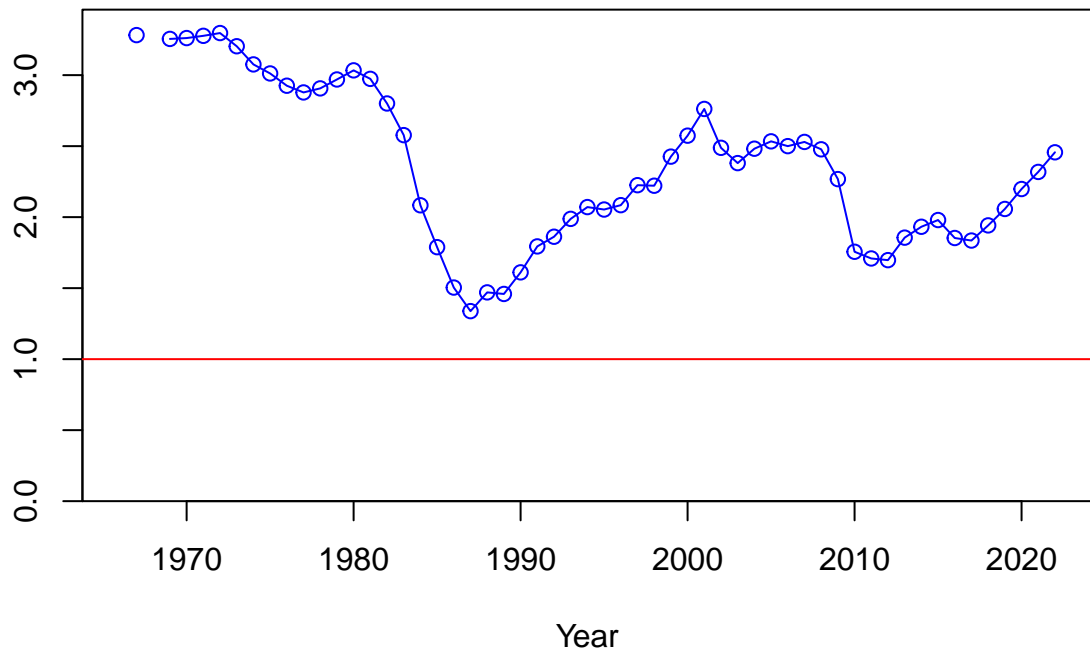




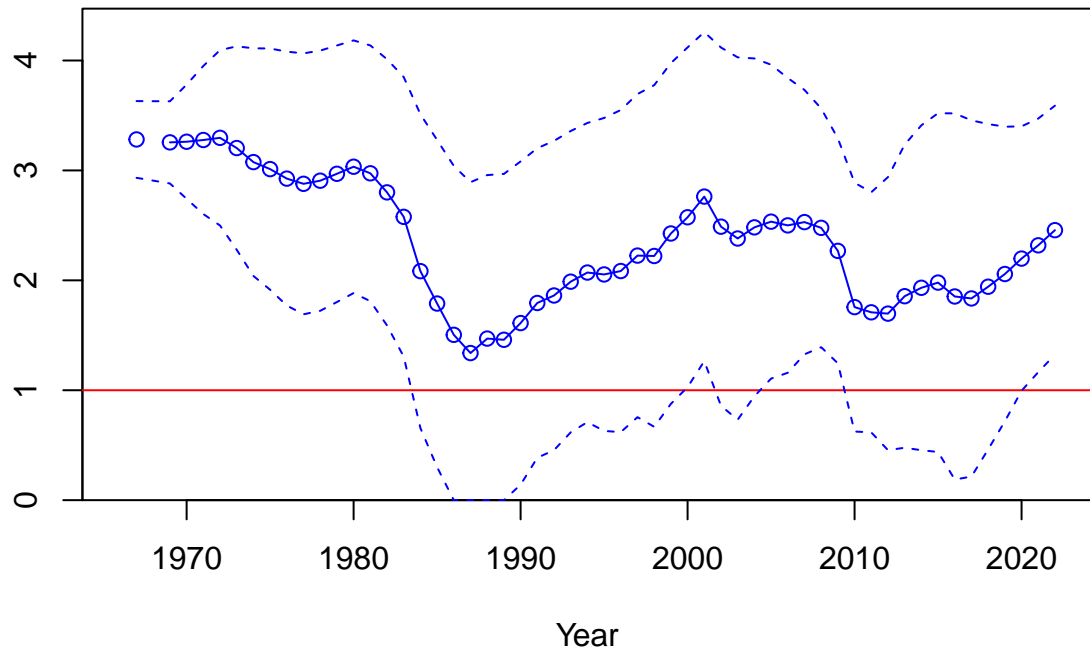
Spawning biomass (mt)

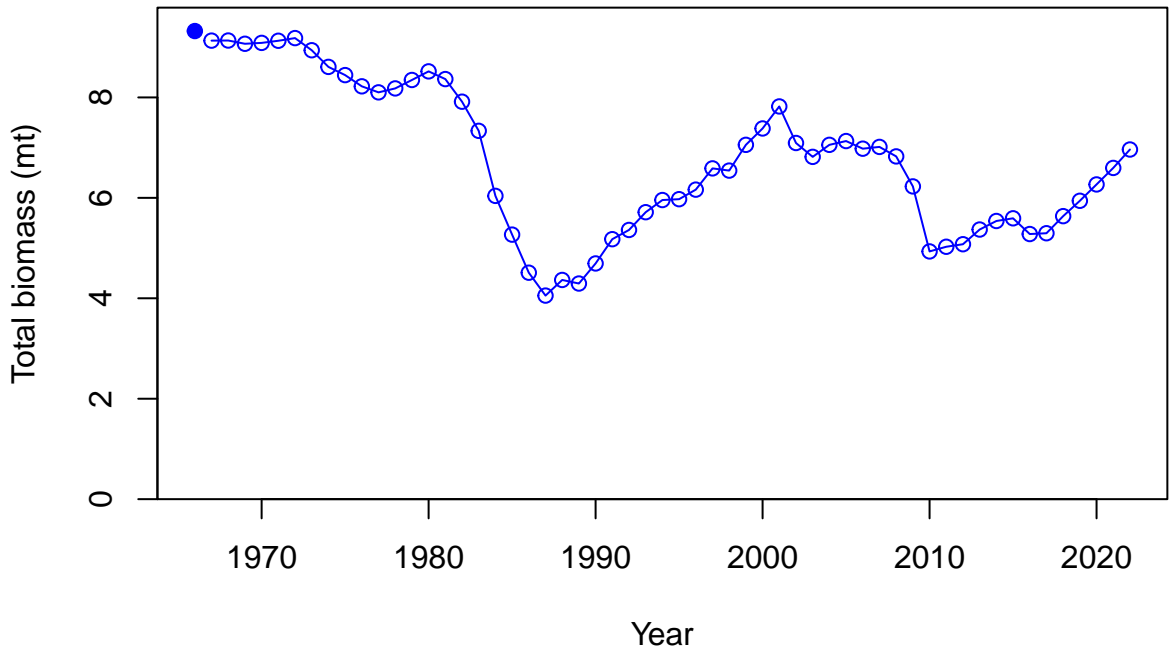


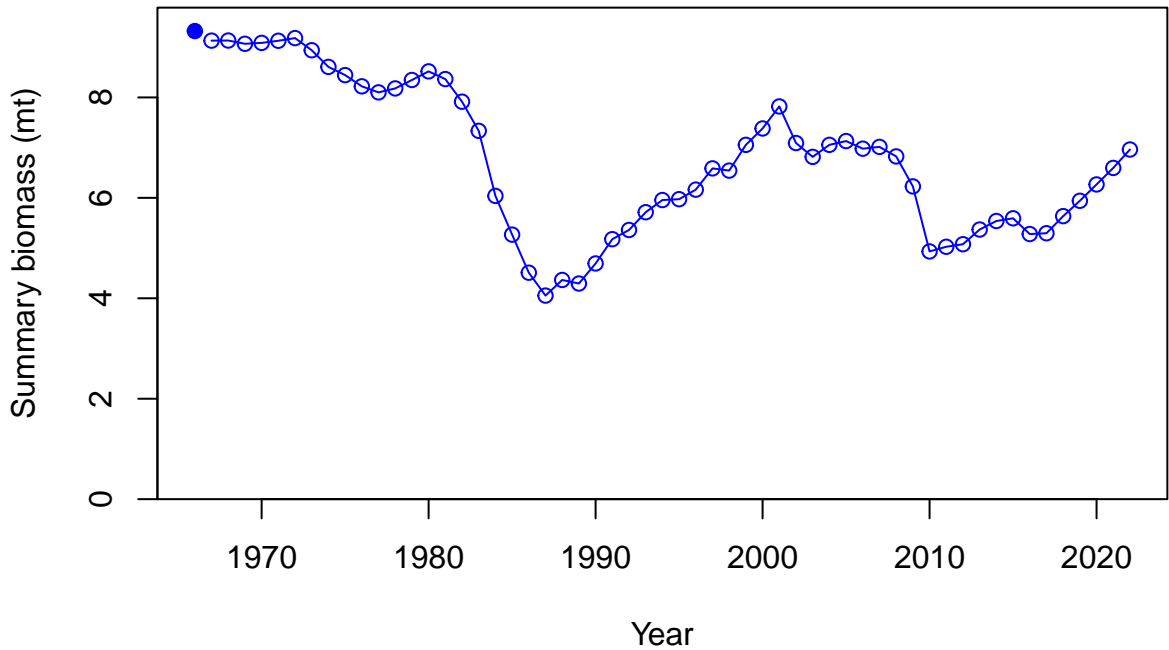
Relative spawning biomass:  $B/B_{MSY}$



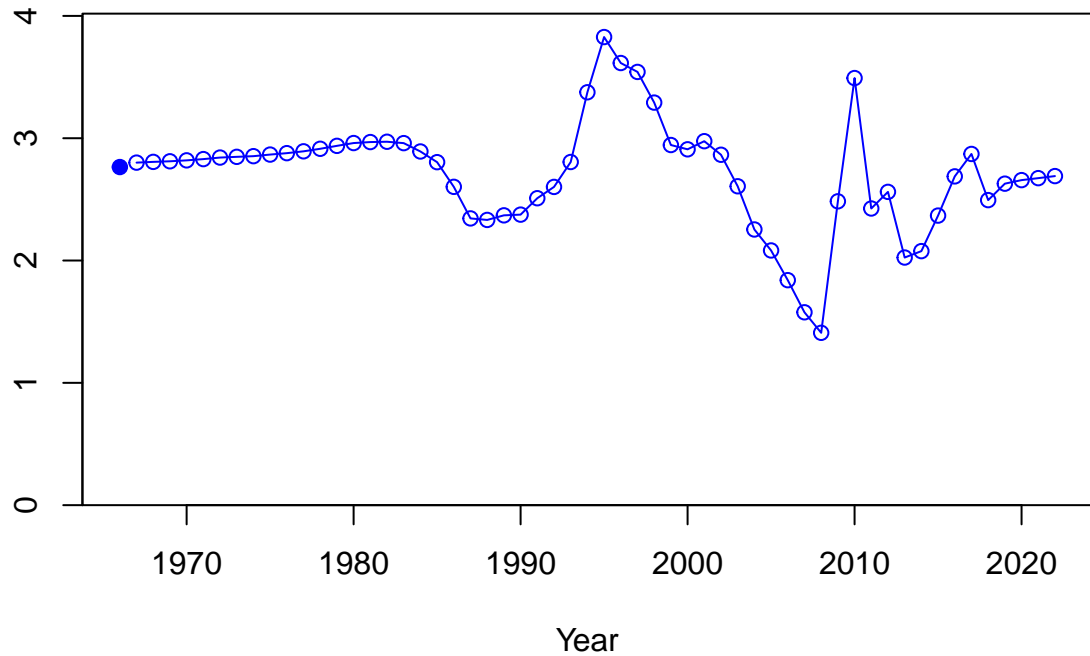
Relative spawning biomass:  $B/B_{MSY}$





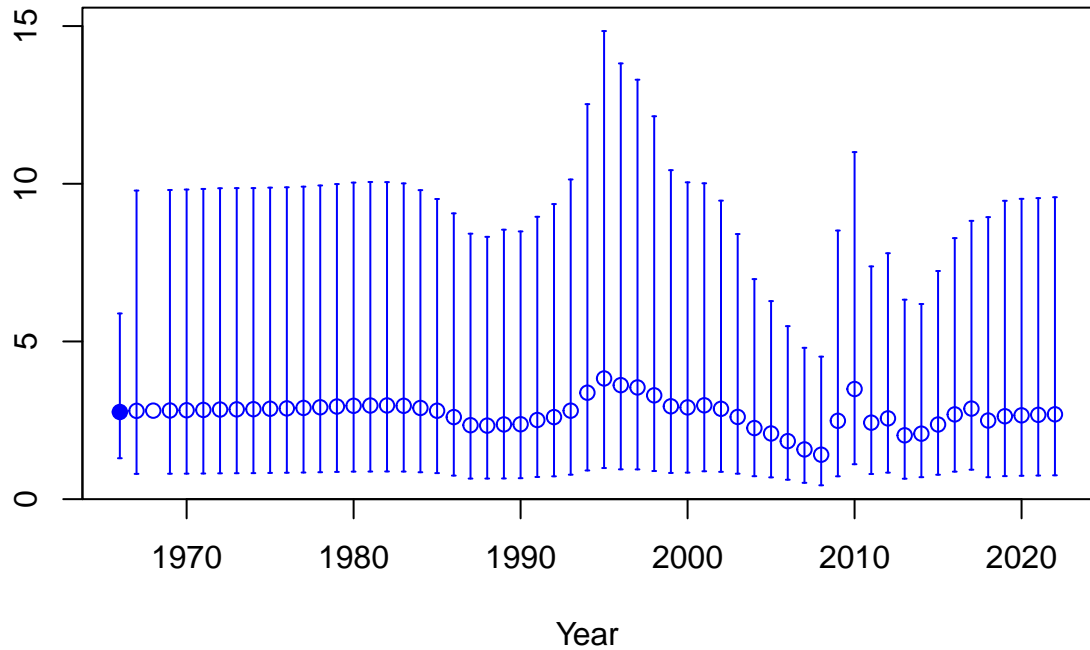


Age-0 recruits (1,000s)

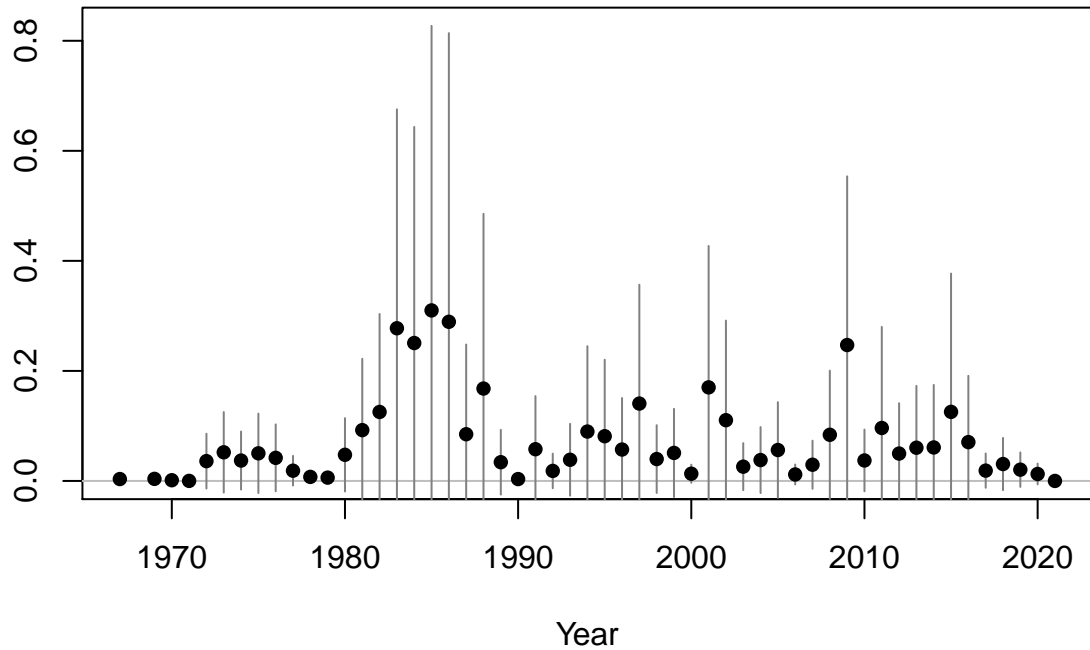


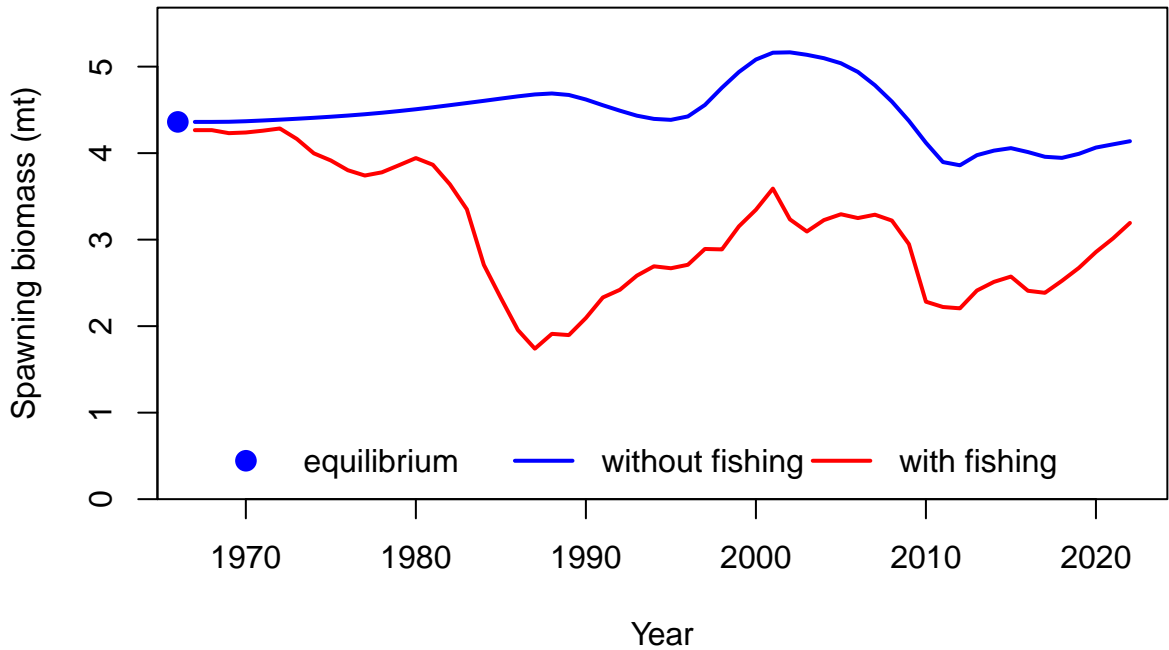


Age-0 recruits (1,000s)

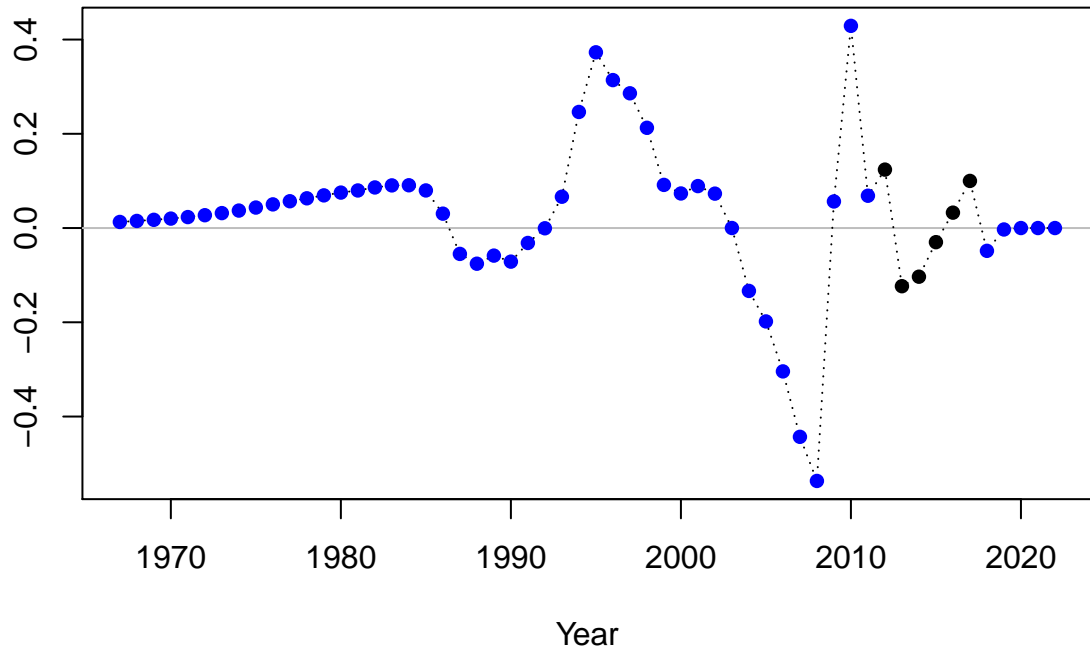


Summary Fishing Mortality

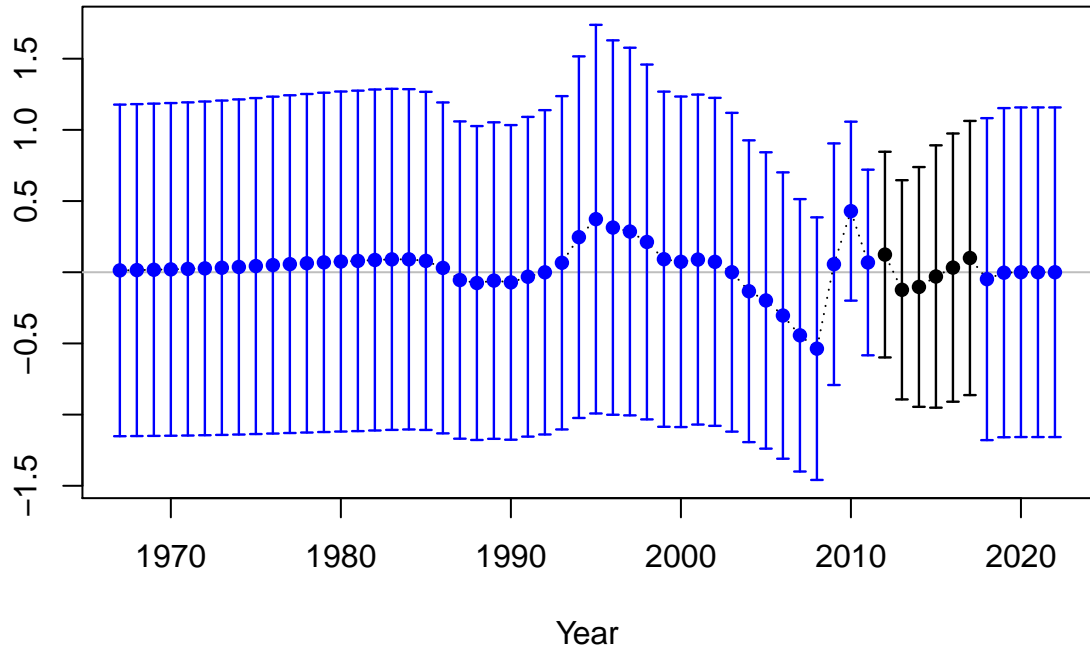




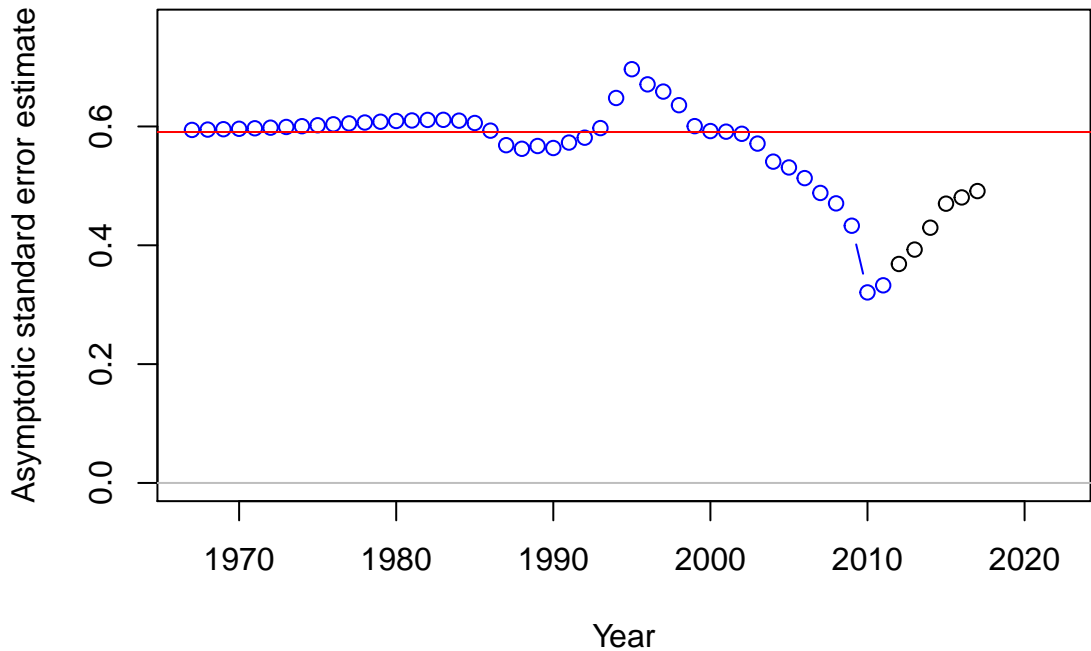
Log recruitment deviation

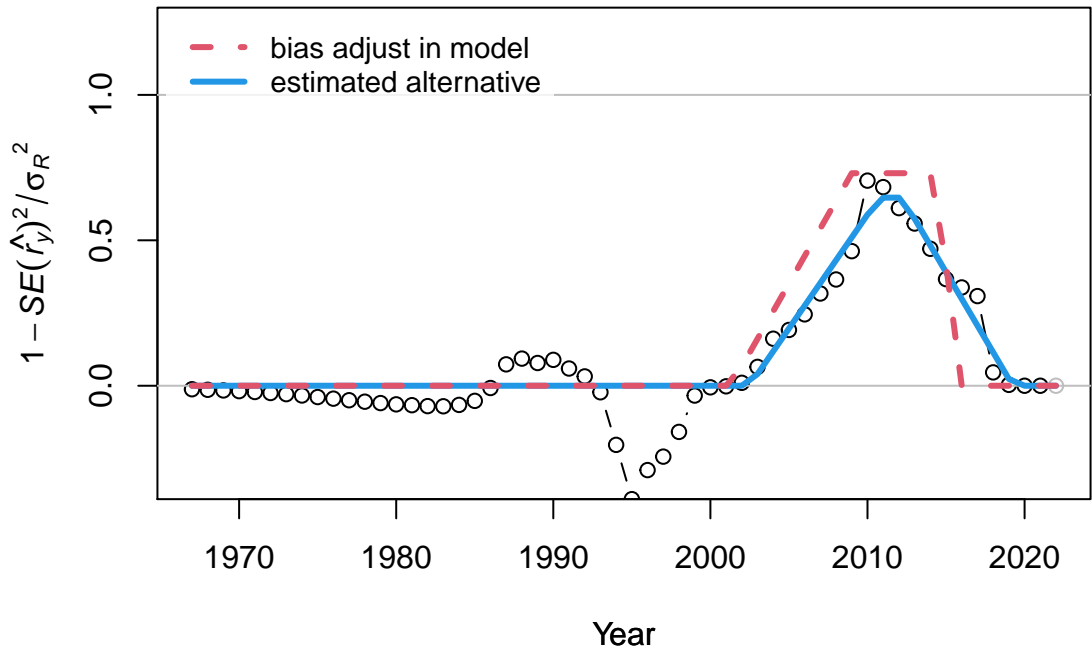


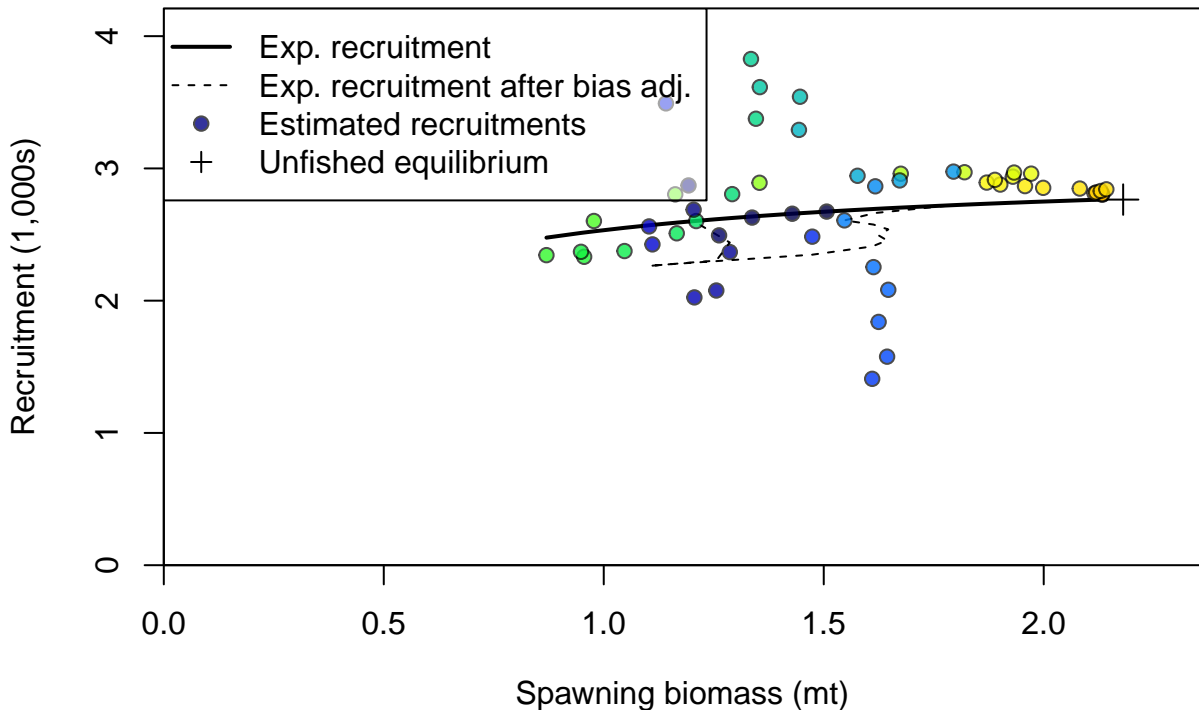
Log recruitment deviation



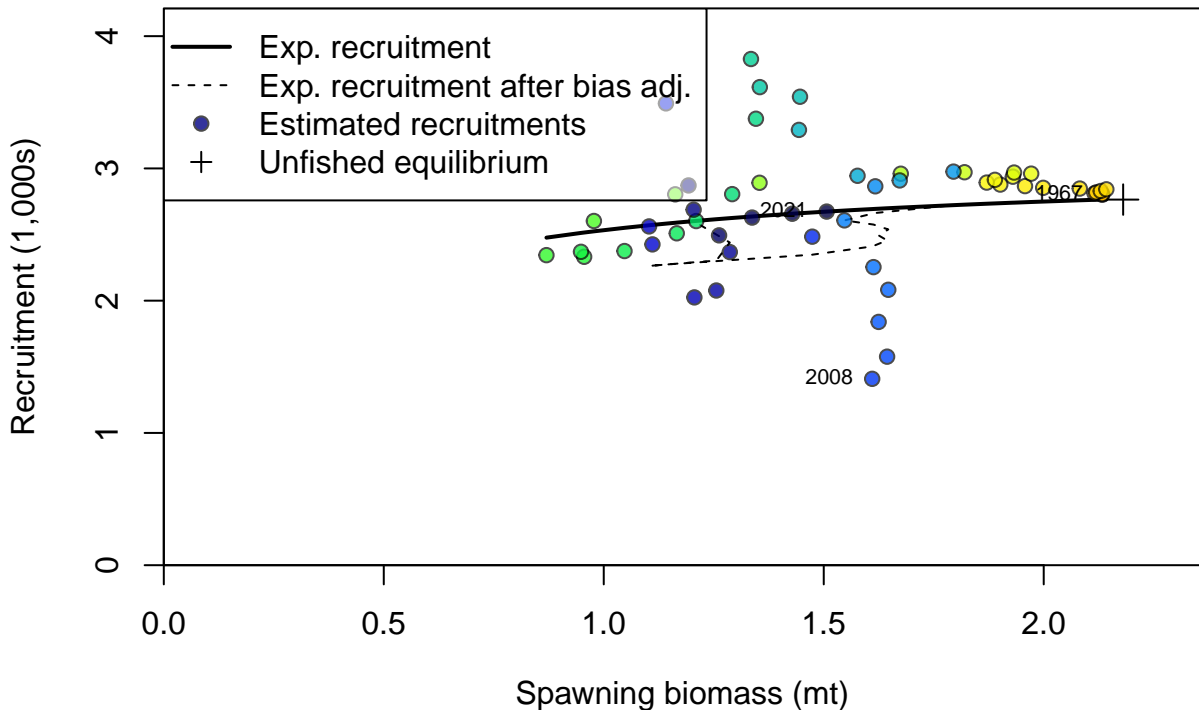
## Recruitment deviation variance











Log recruitment deviation

0.4  
0.2  
0.0  
-0.2  
-0.4

0.0

0.2

0.4

0.6

0.8

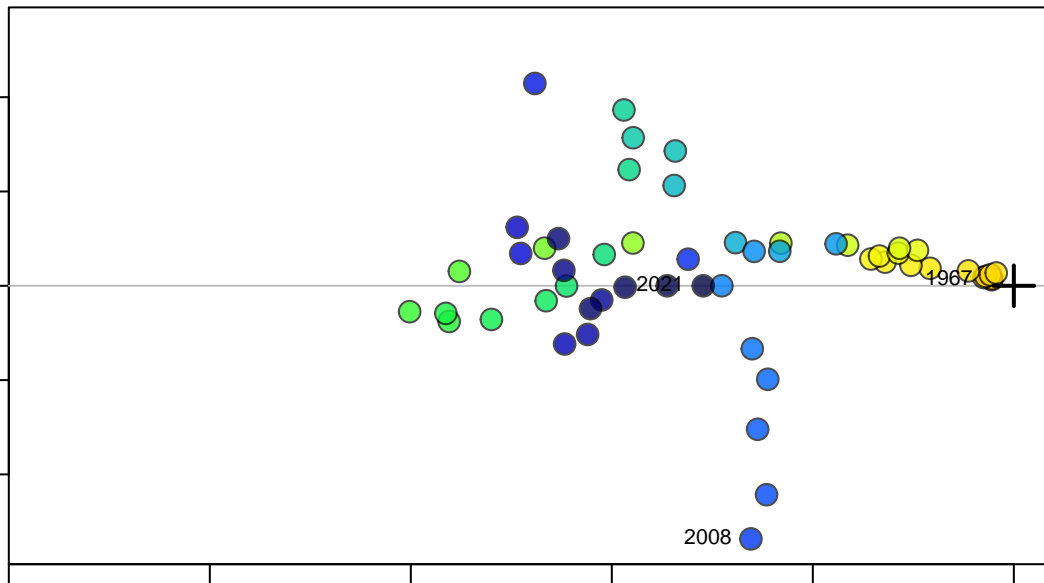
1.0

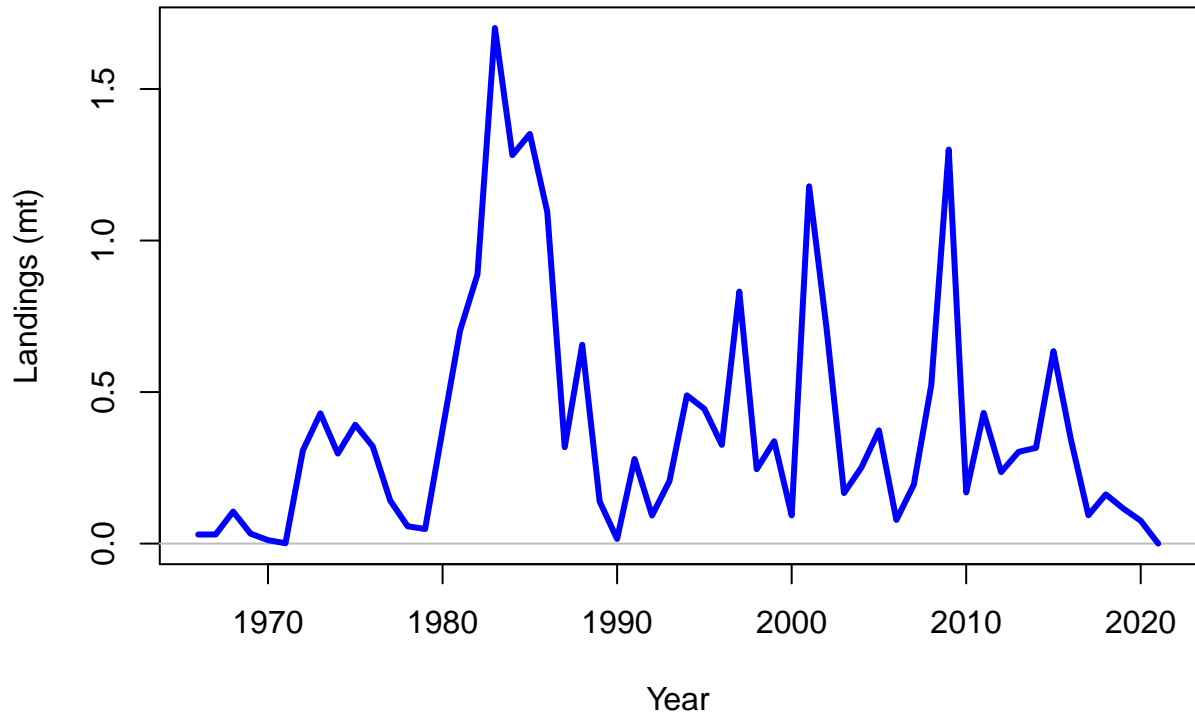
Spawning output (relative to  $B_0$ )

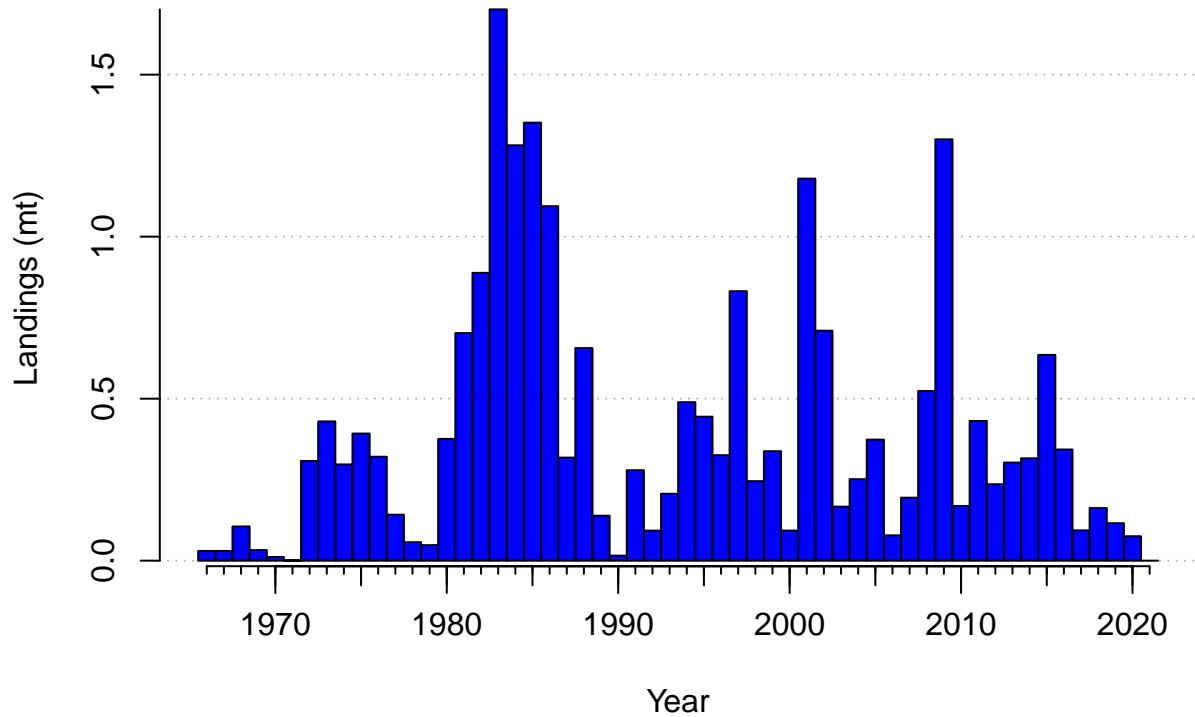
2008

2021

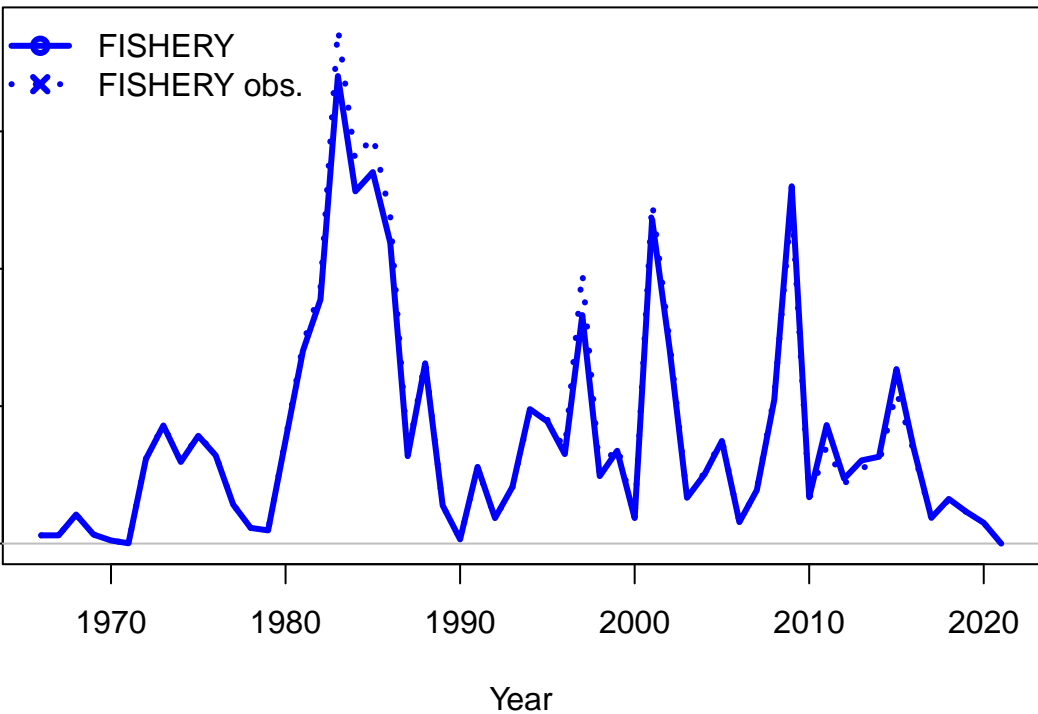
1967

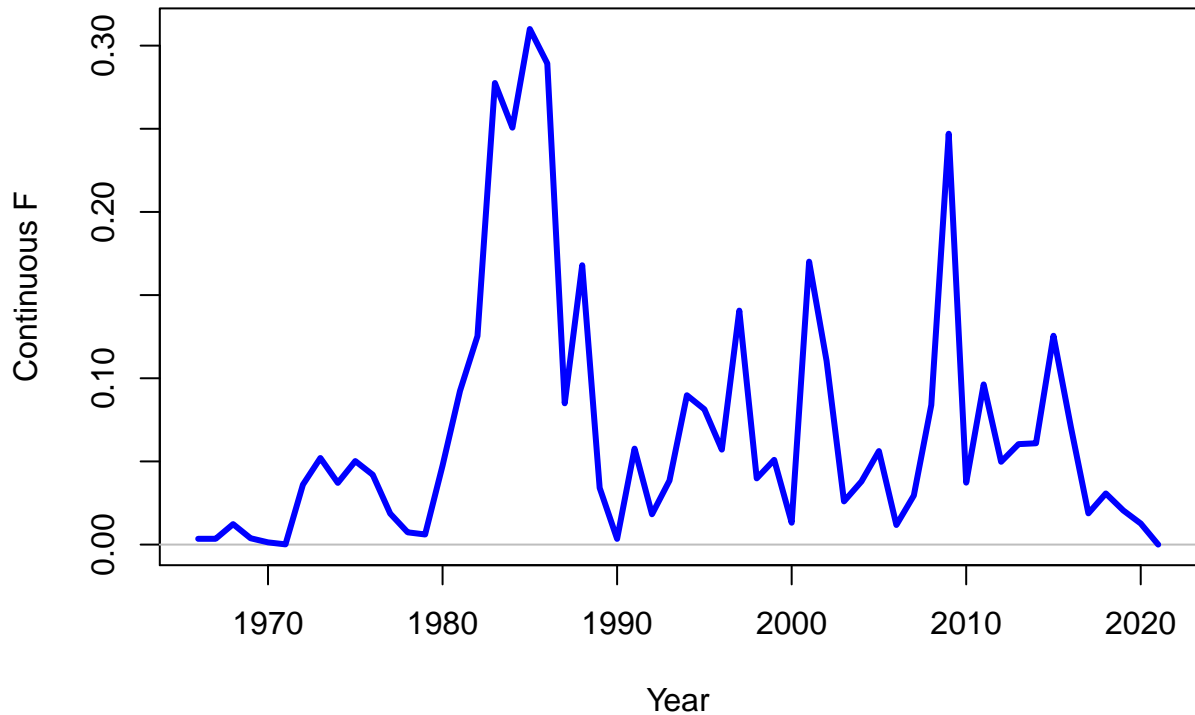




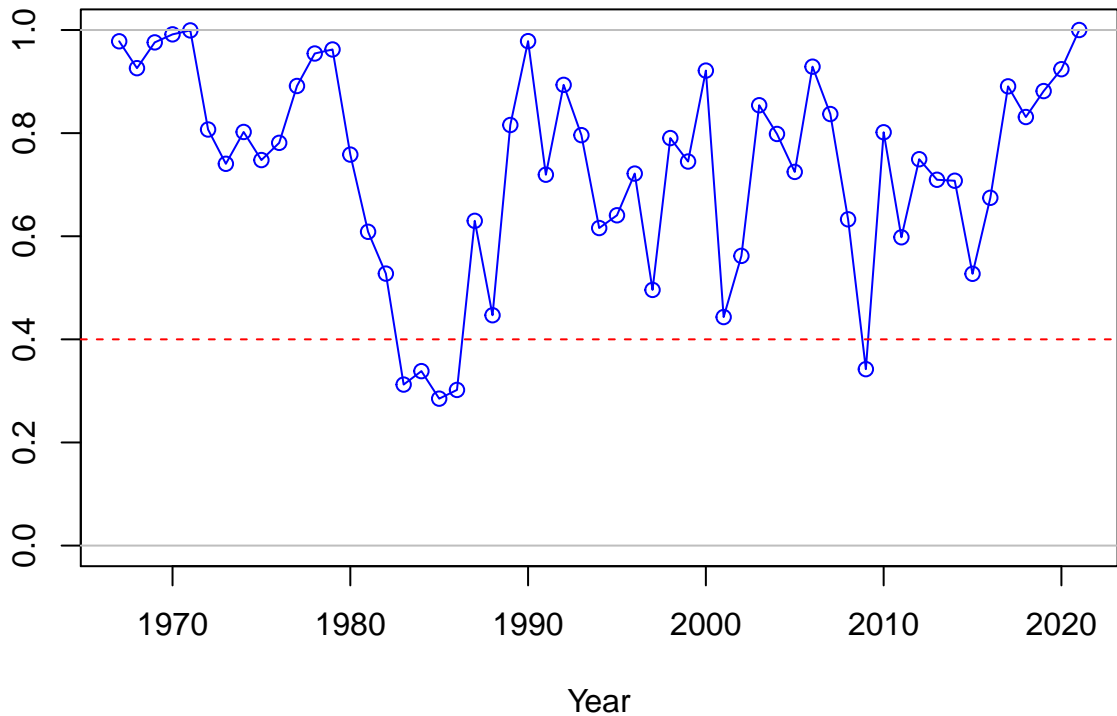


Observed and expected Landings (mt)

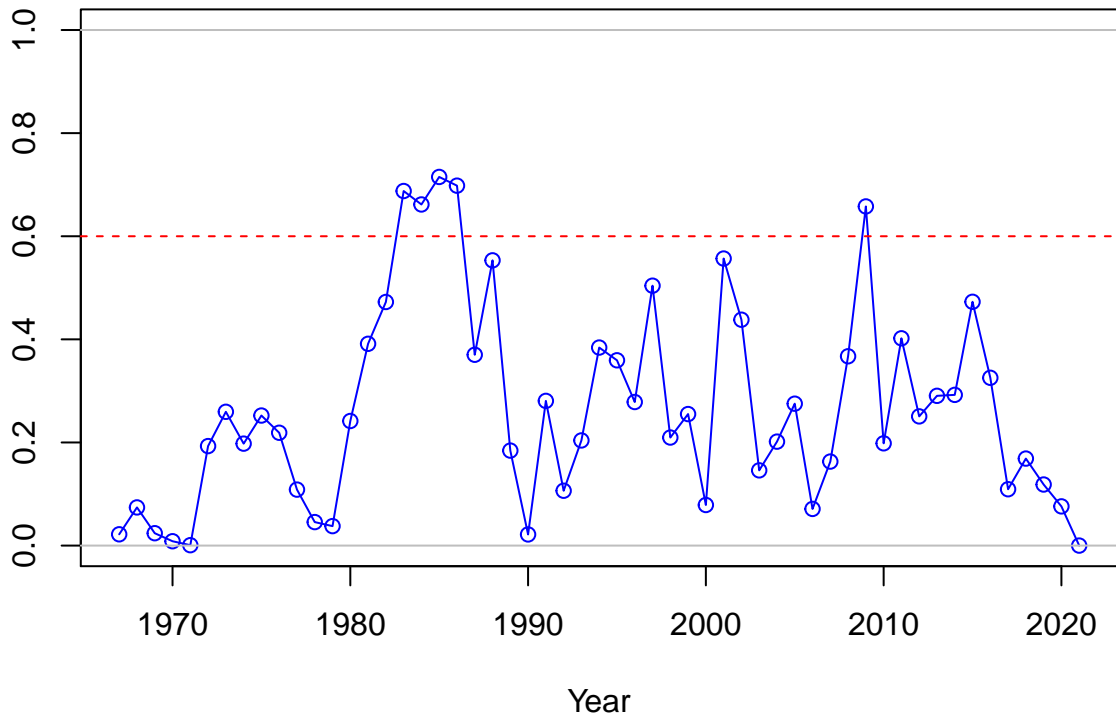




SPR

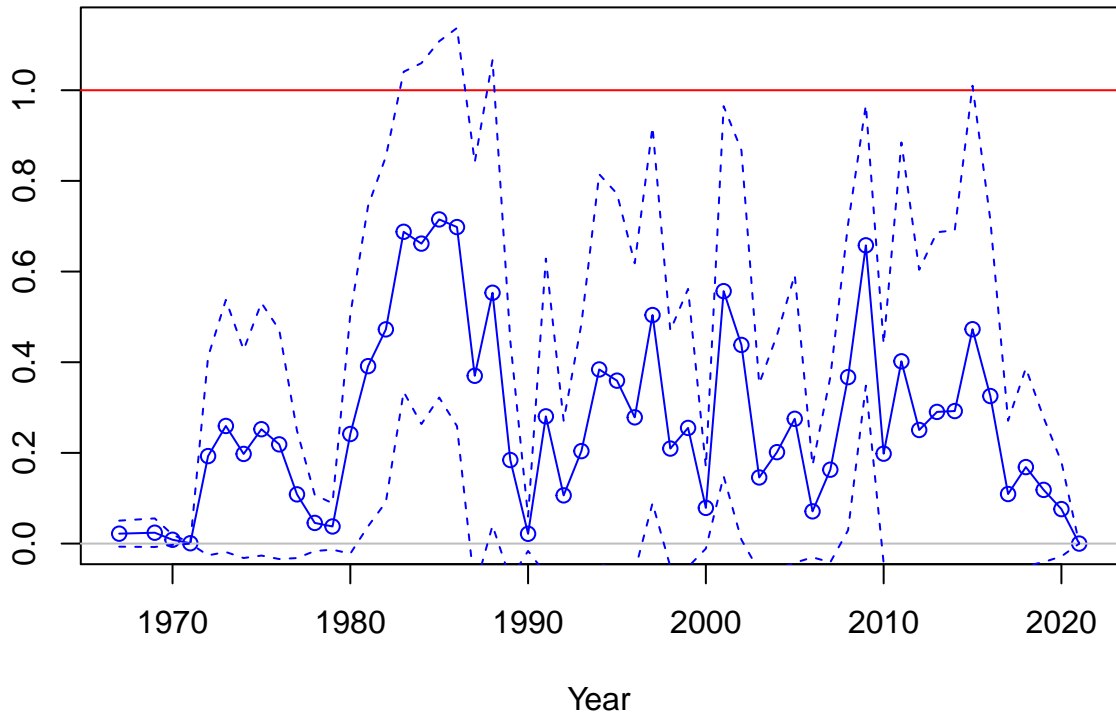


1-SPR

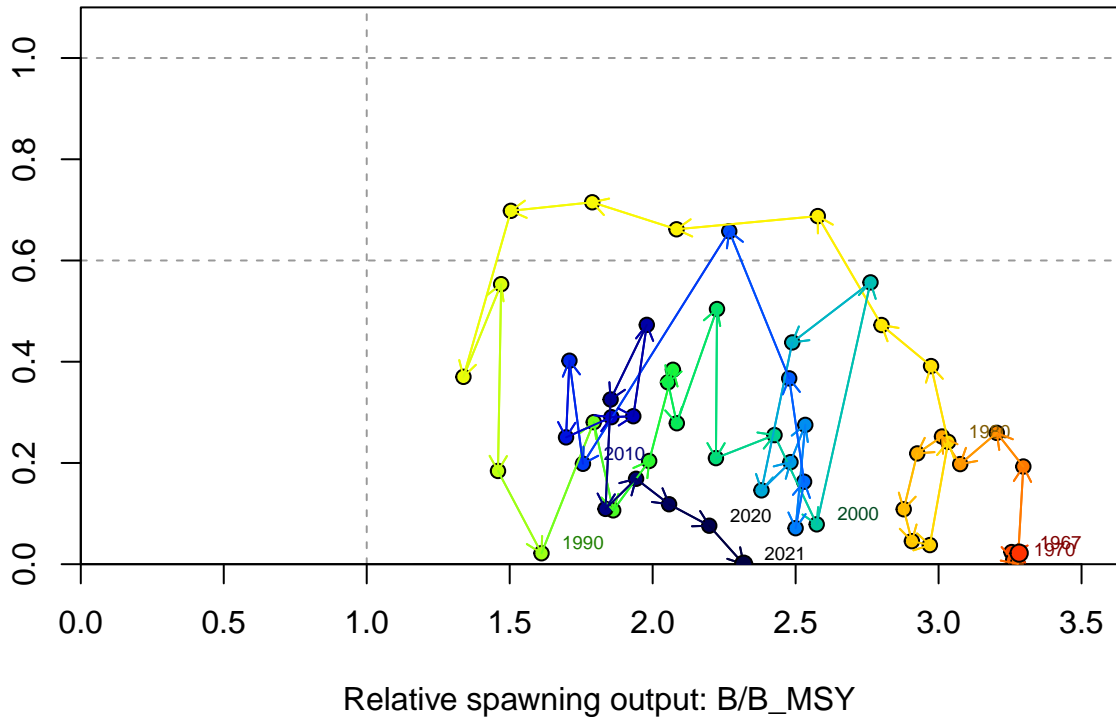




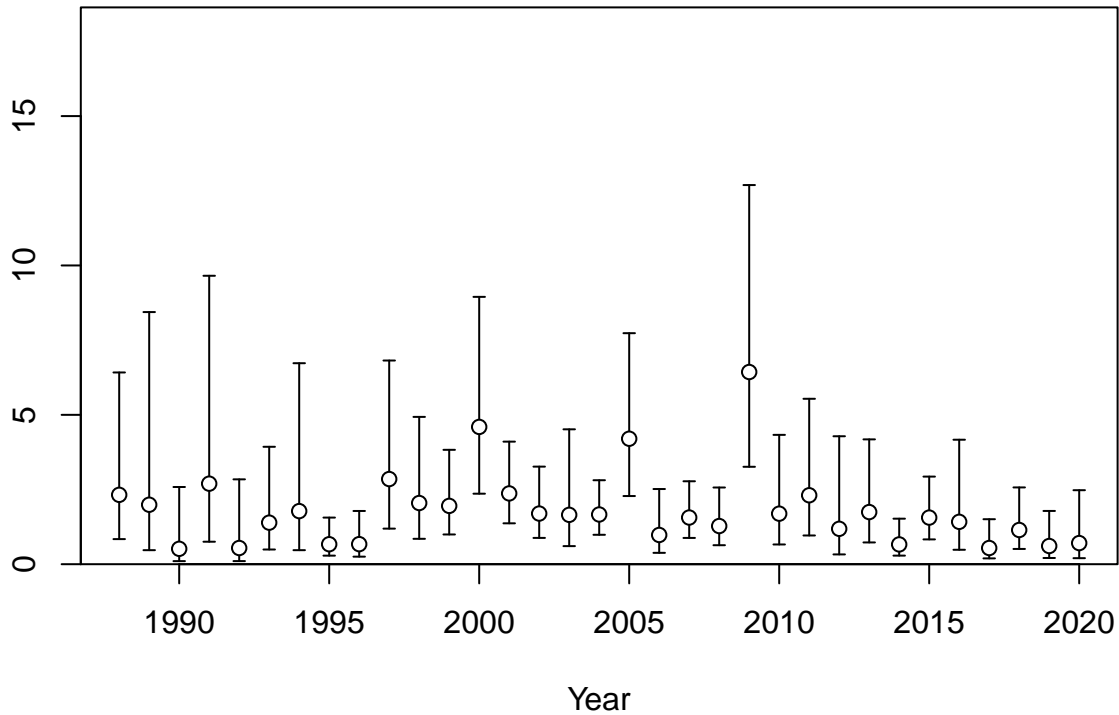
Fishing intensity: 1-SPR



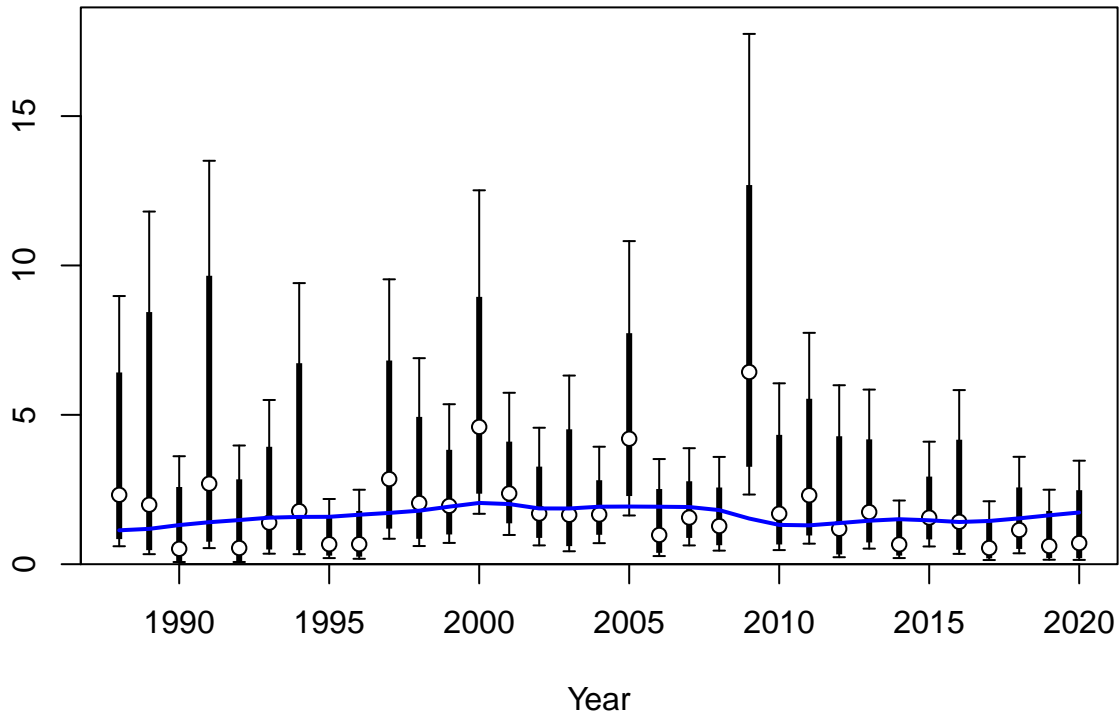
Fishing intensity: 1-SPR

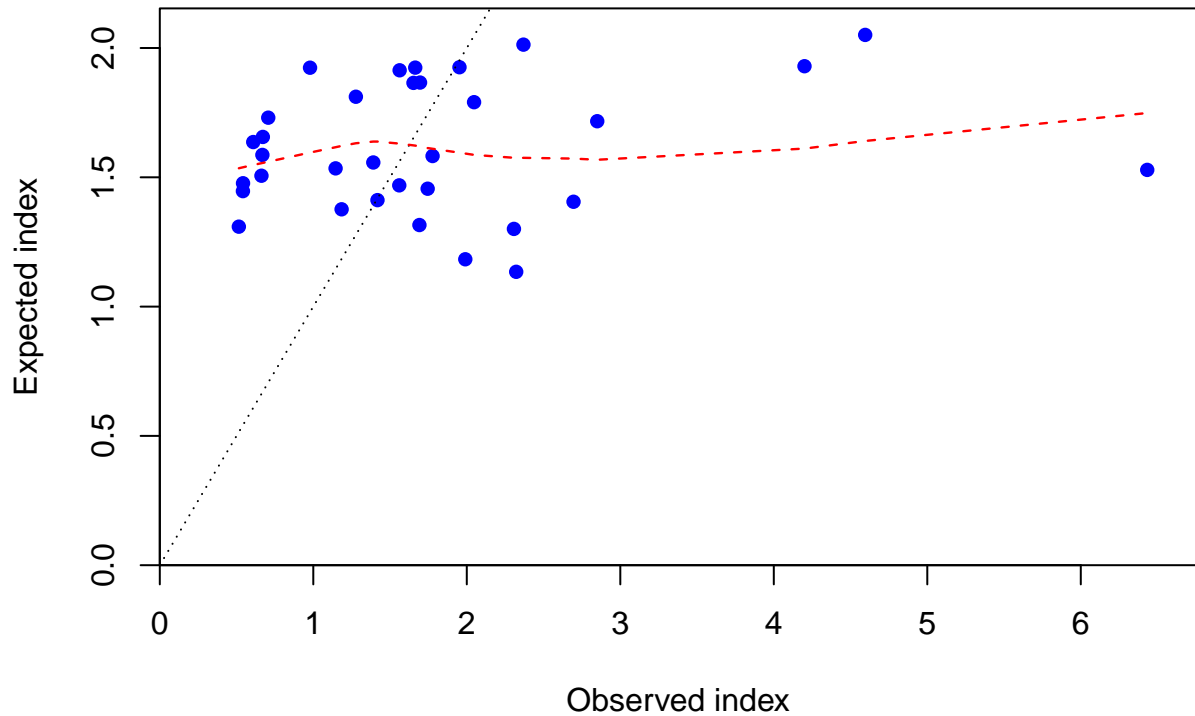


Index

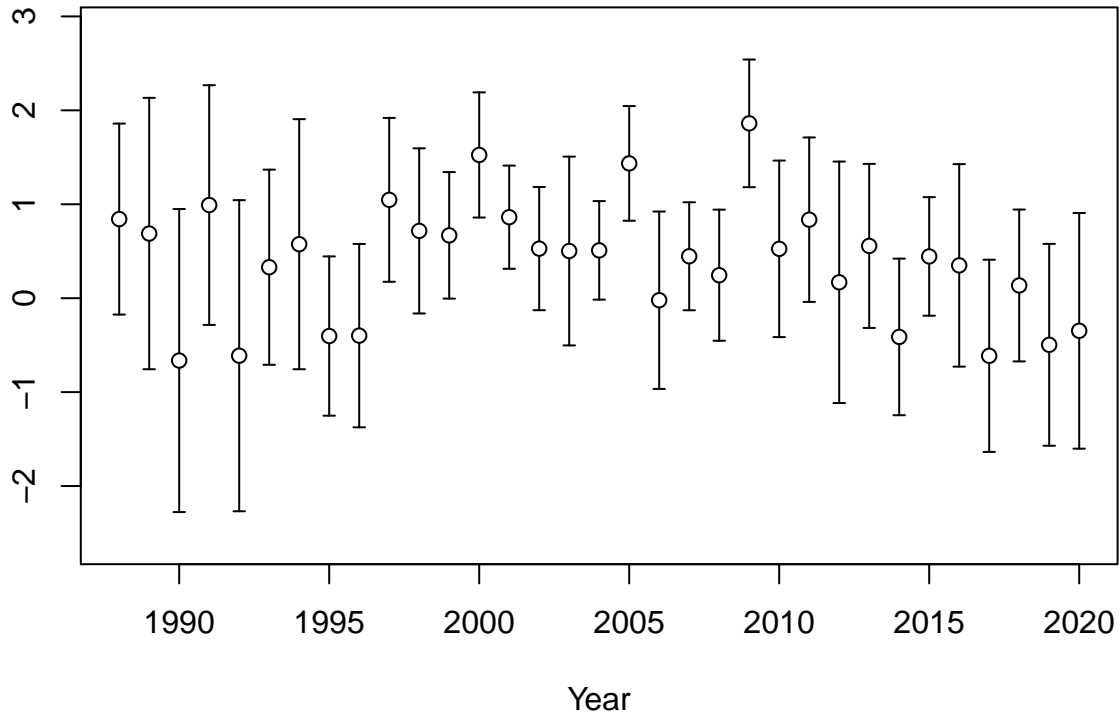


Index

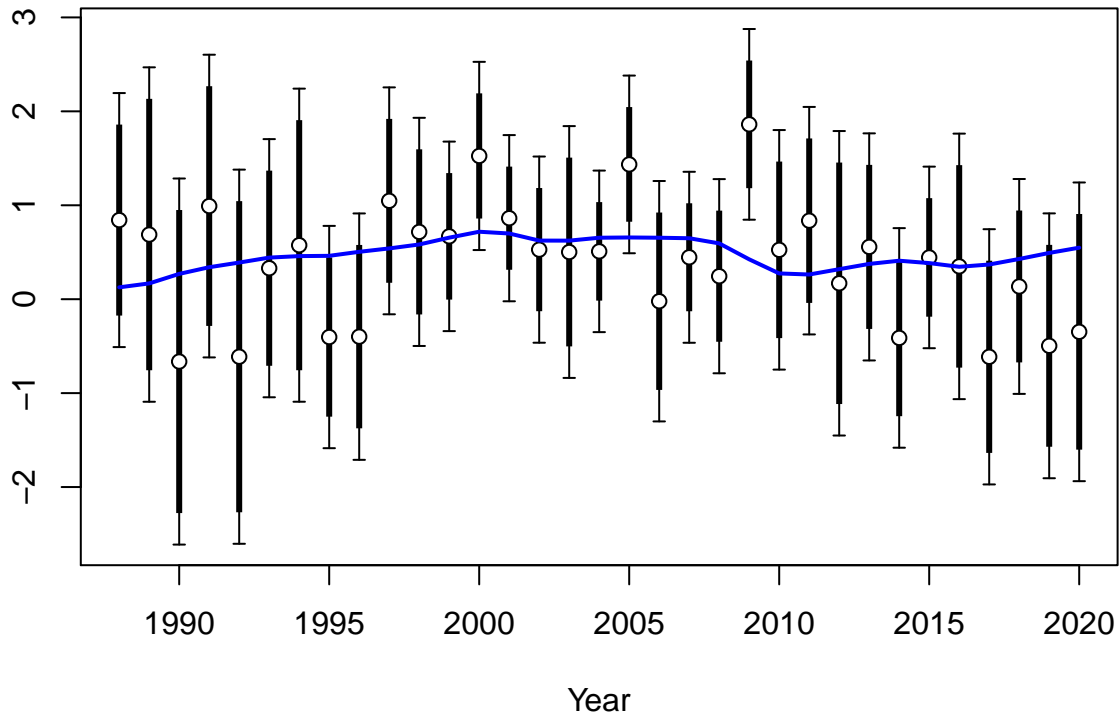


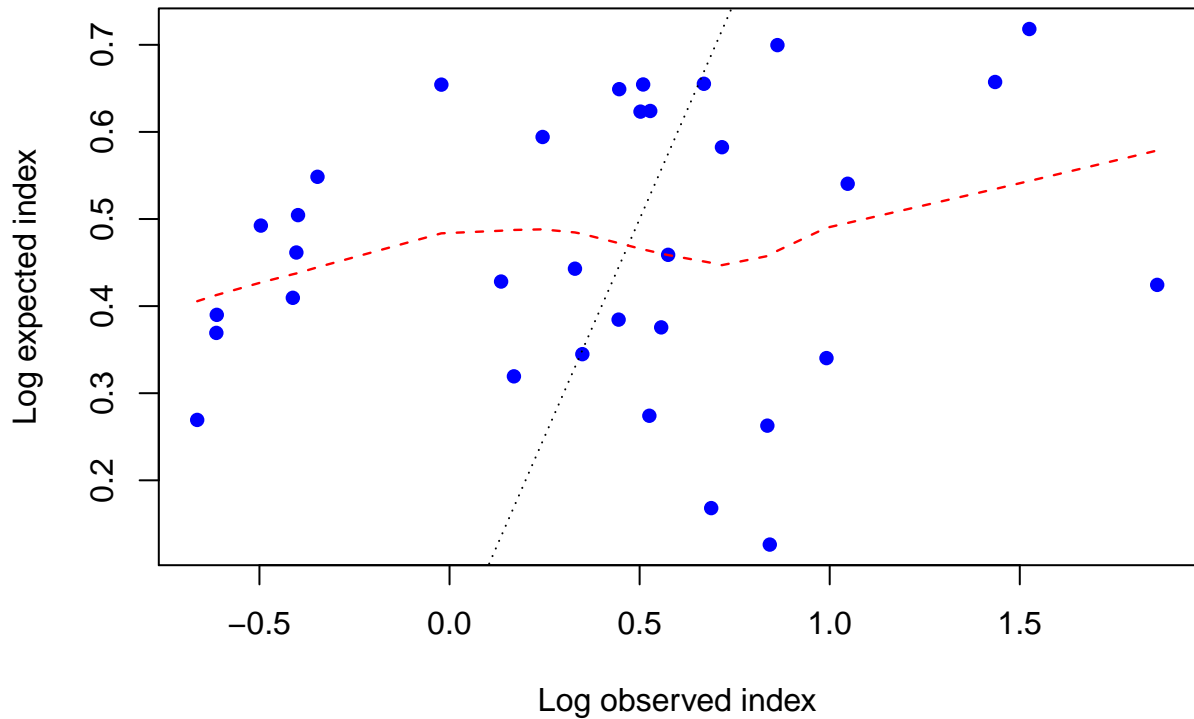


Log index

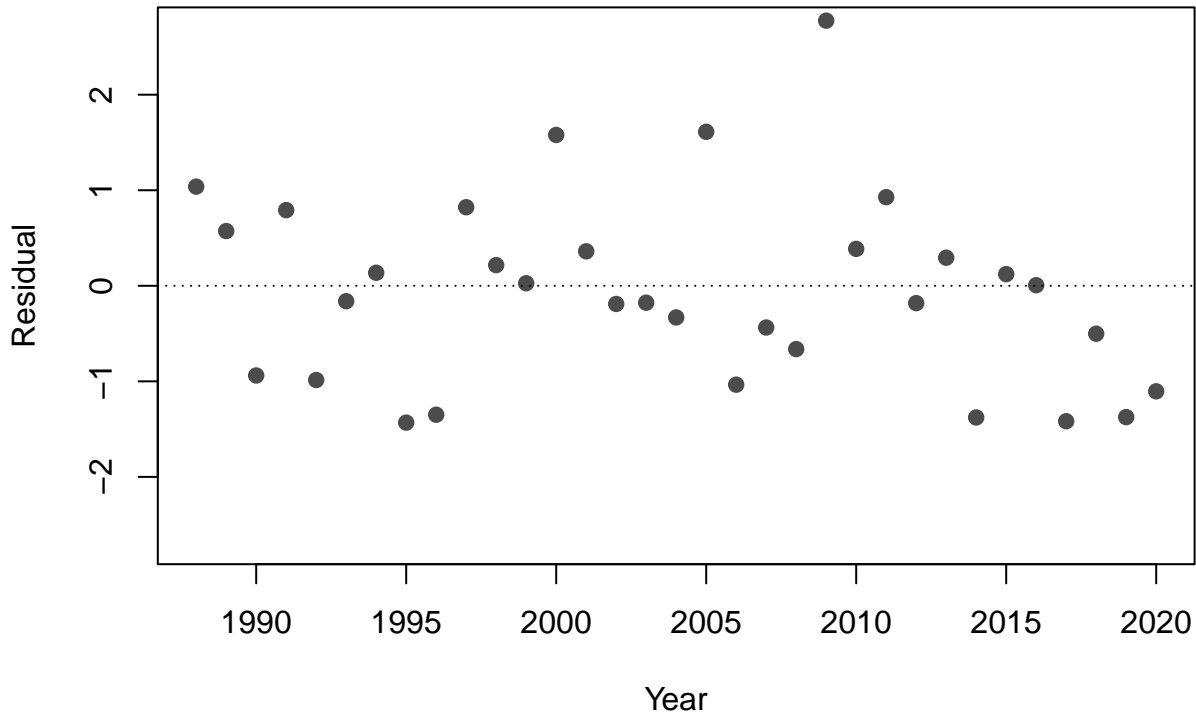


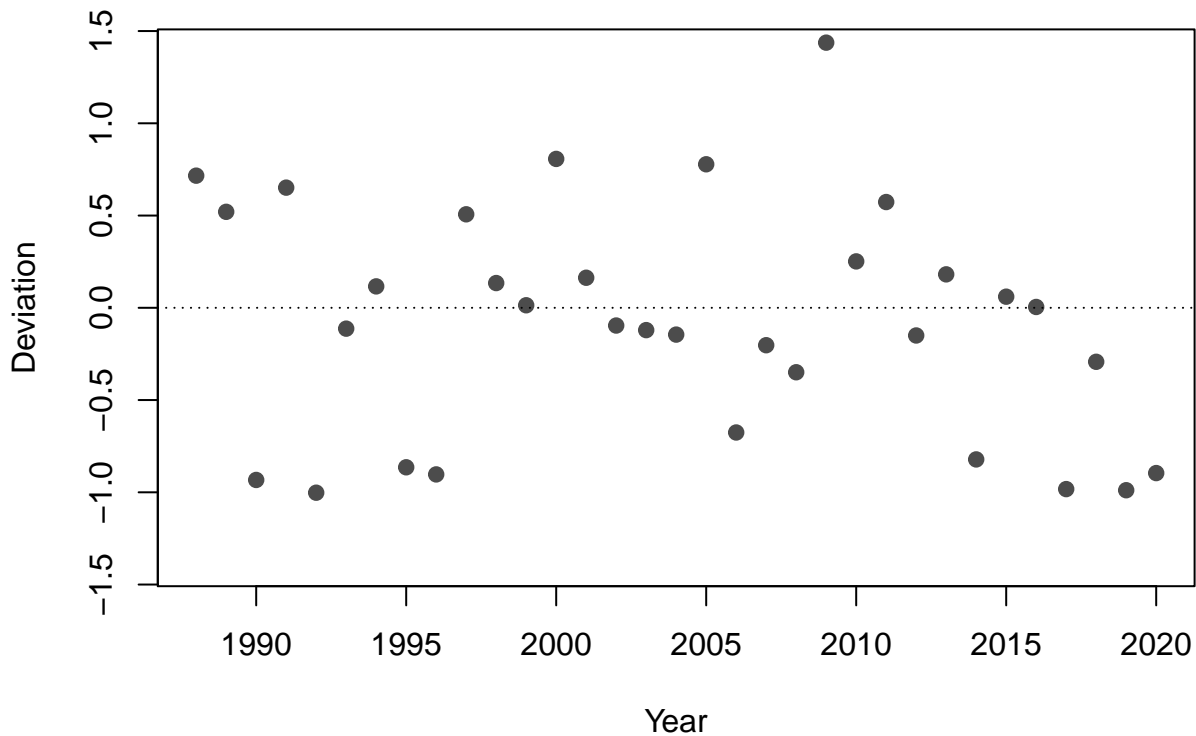
Log index

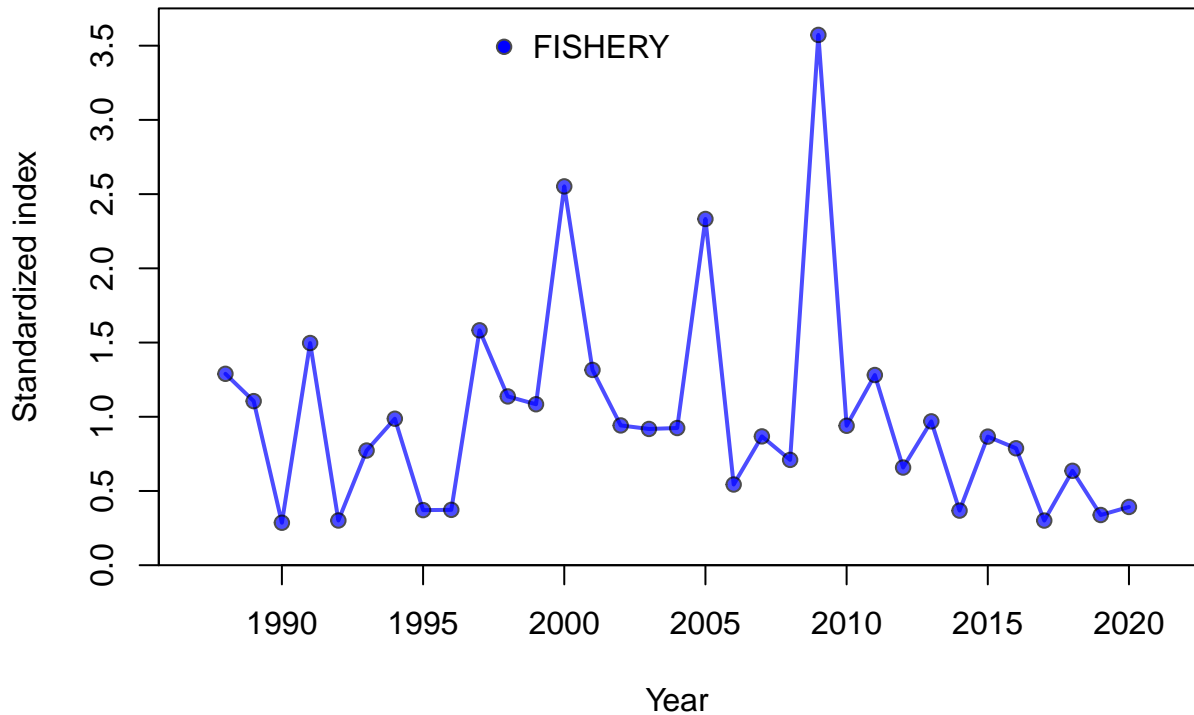


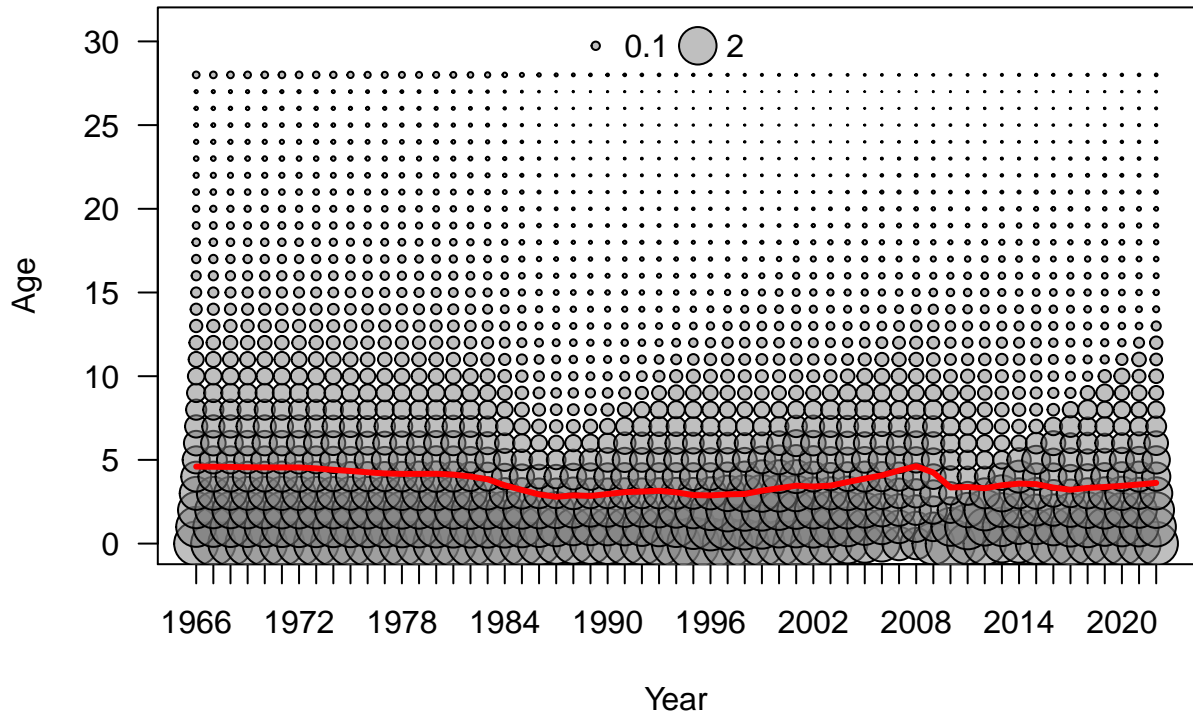


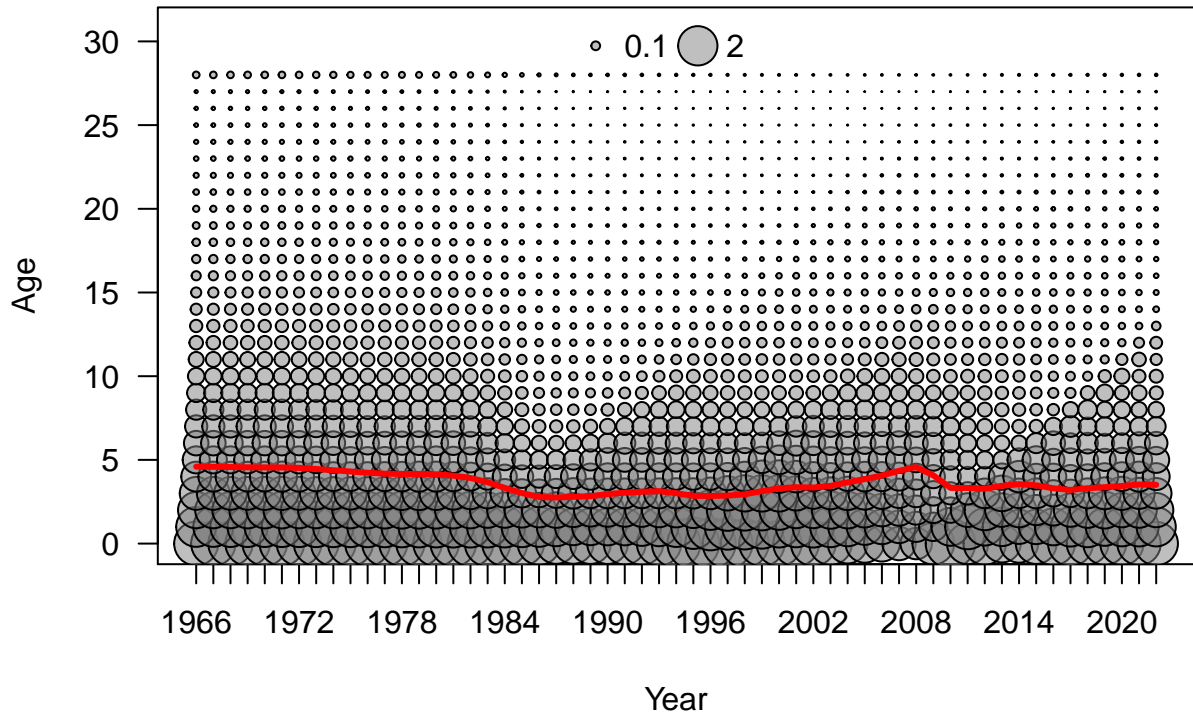


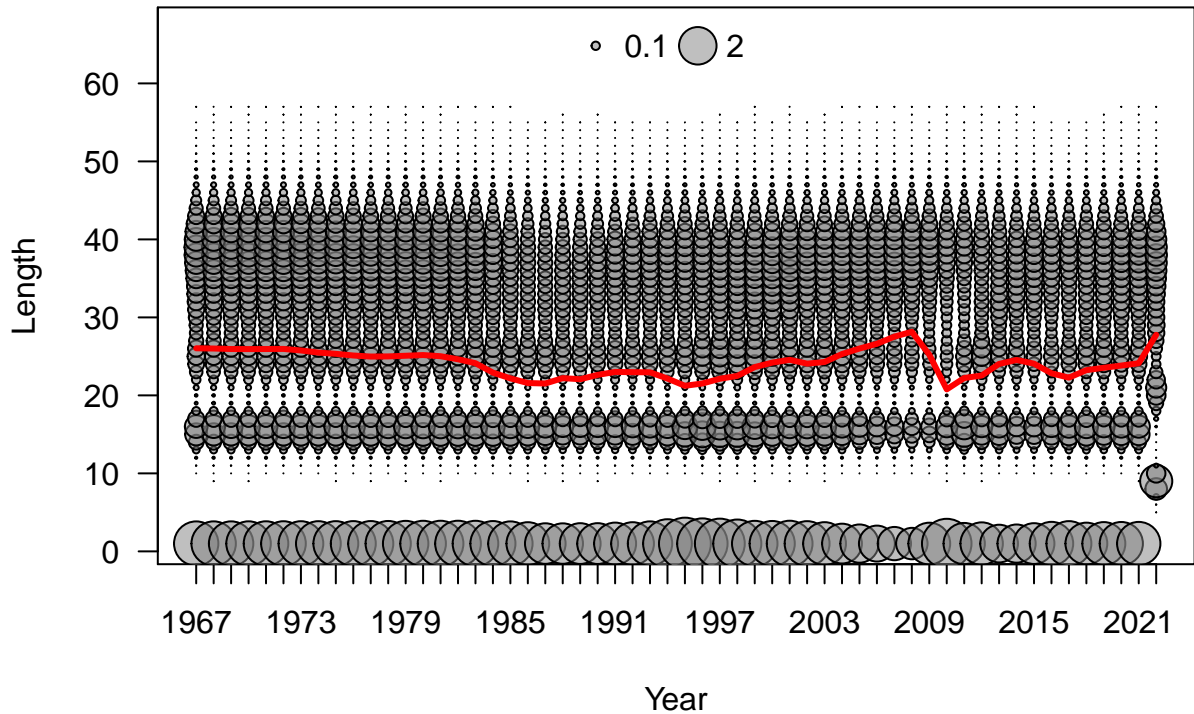


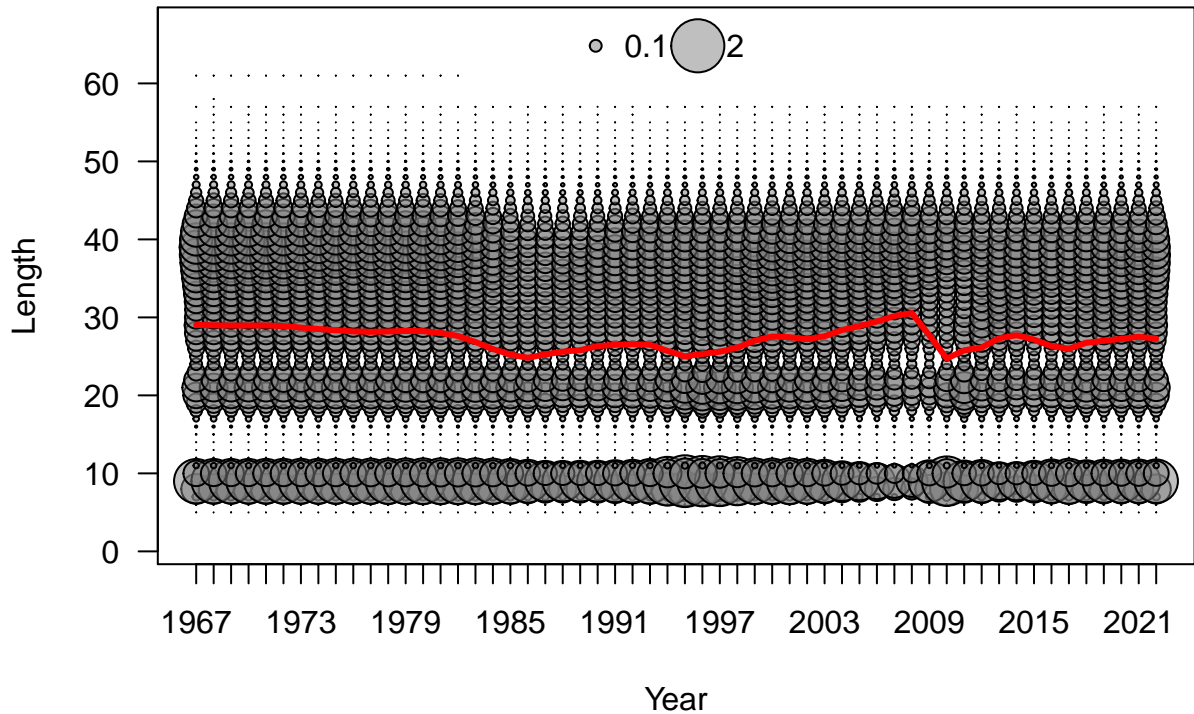


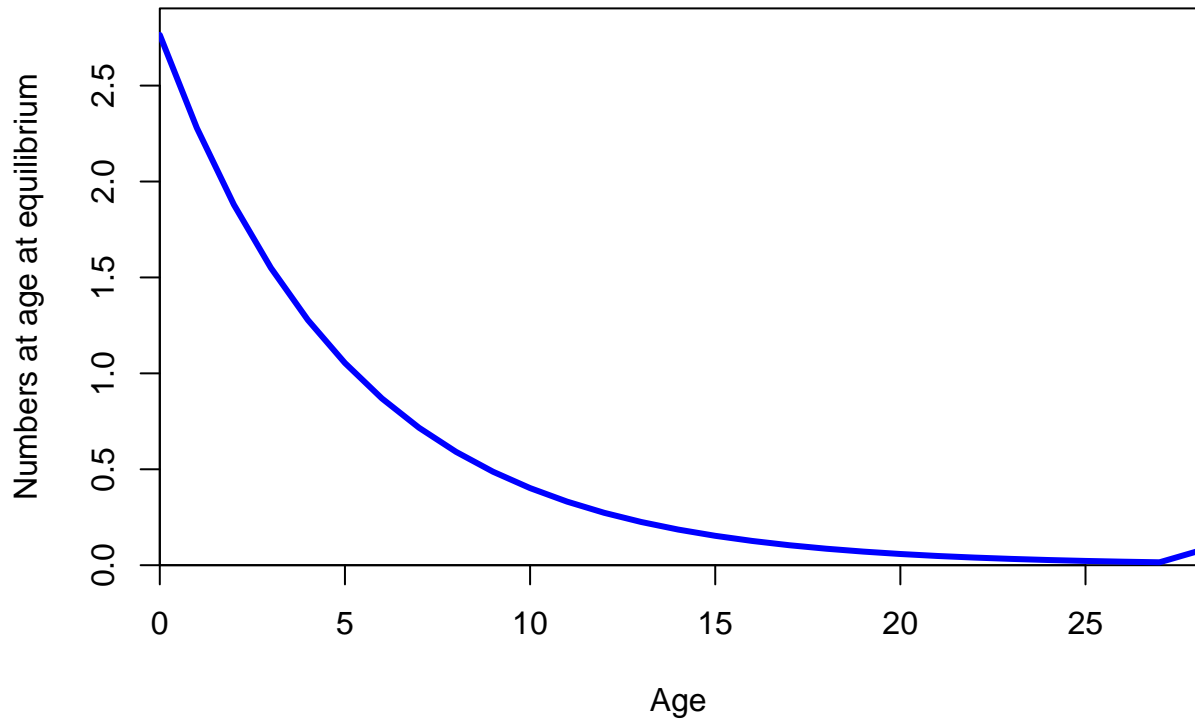




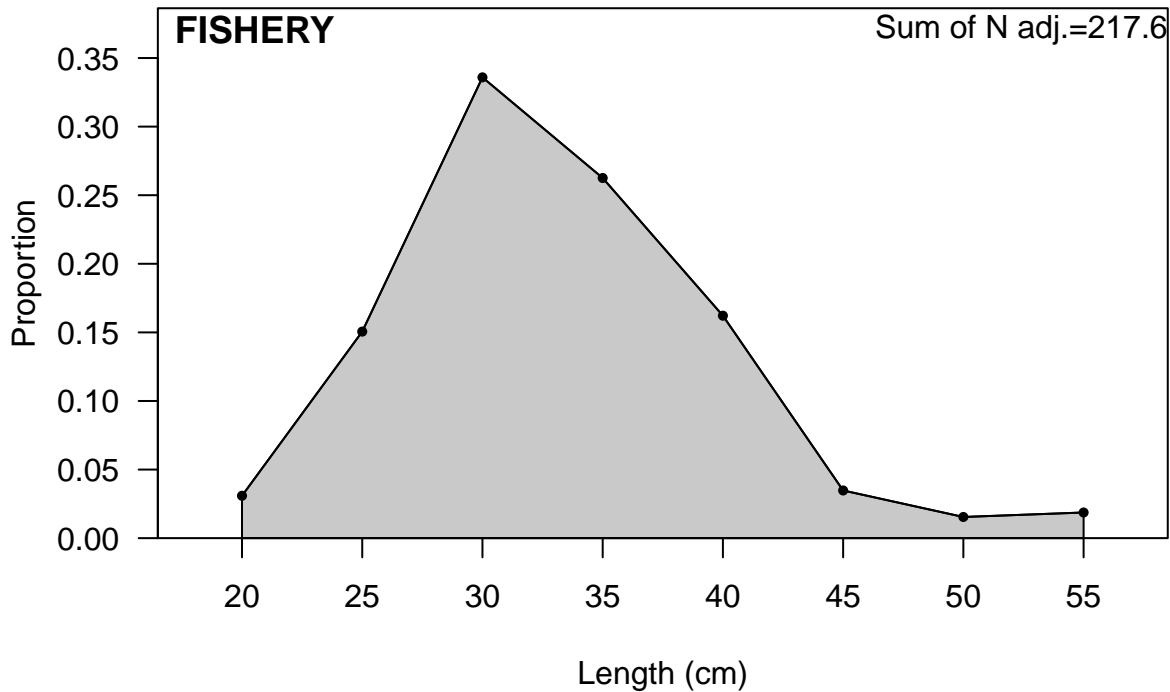


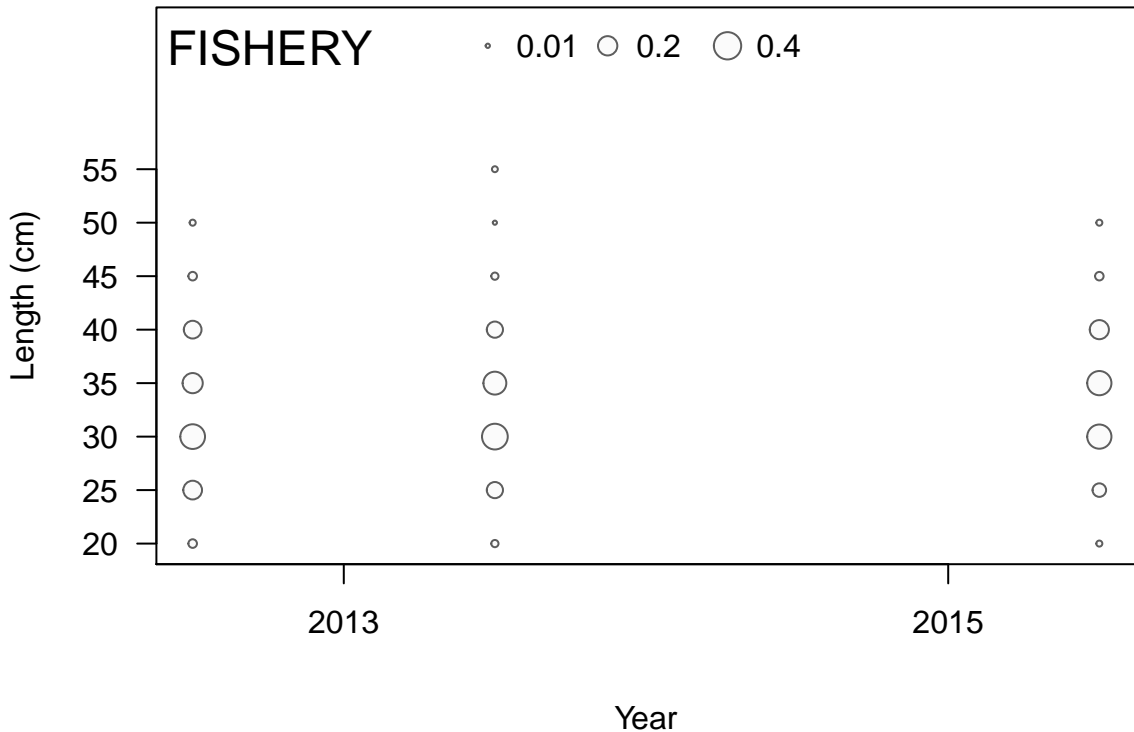




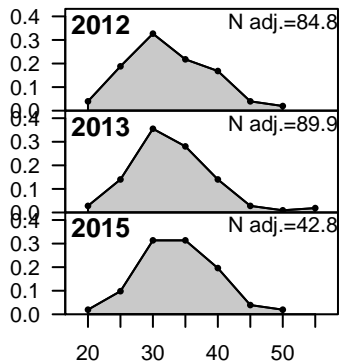




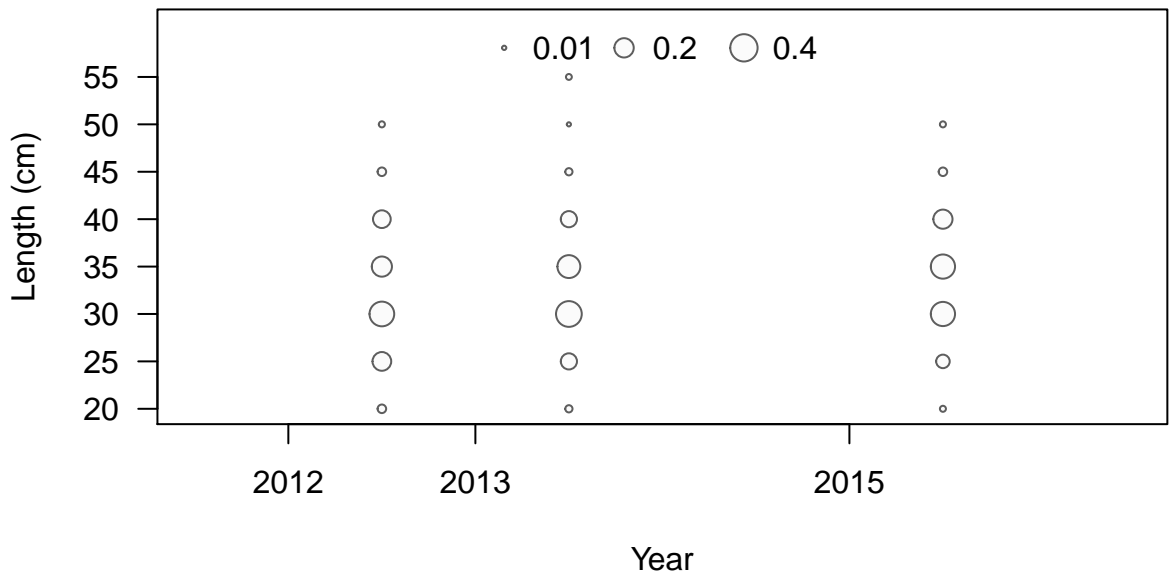




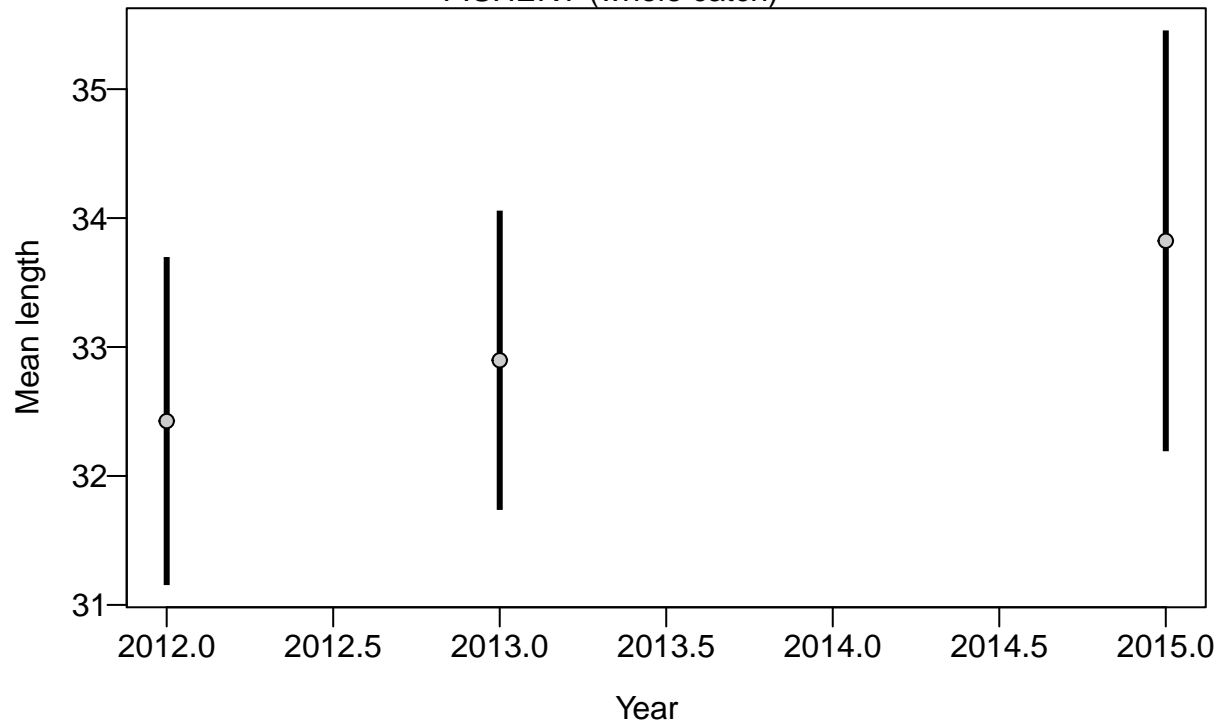
Proportion

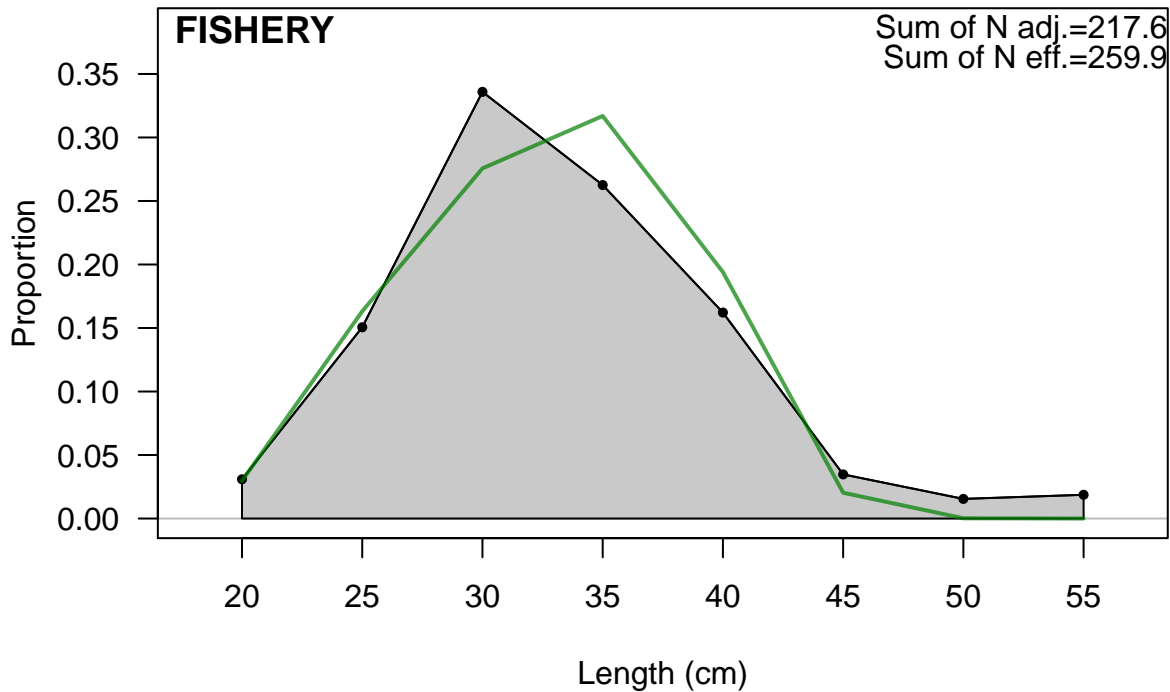


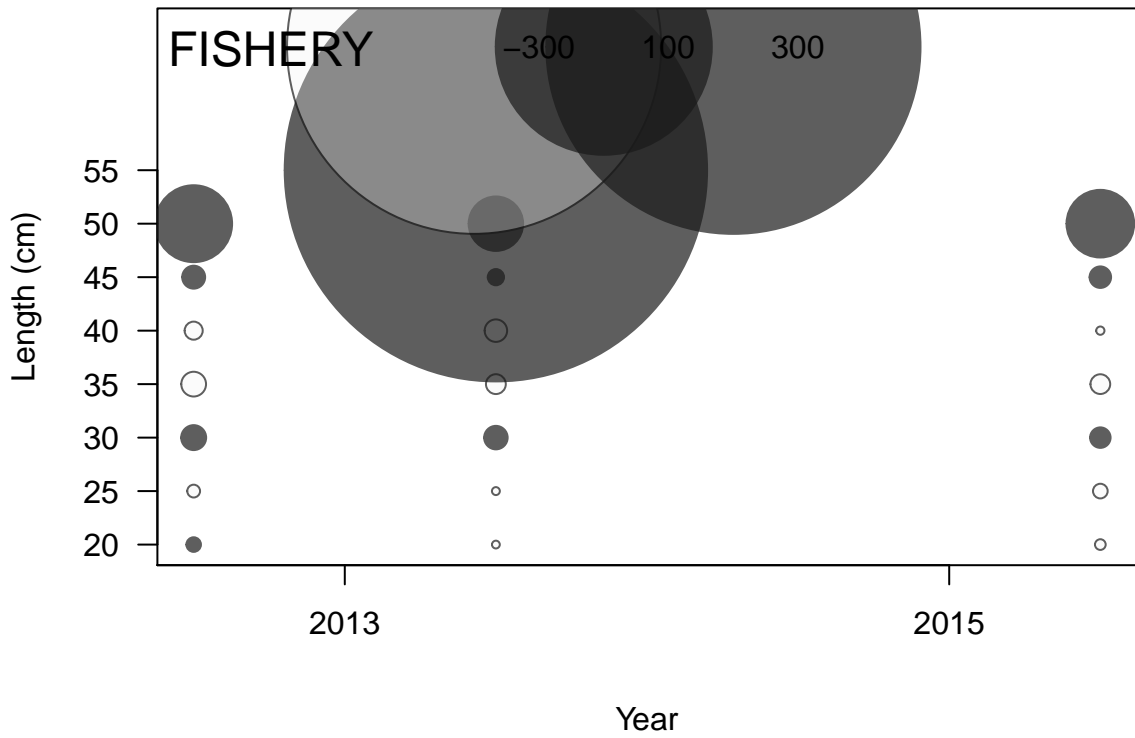
Length (cm)



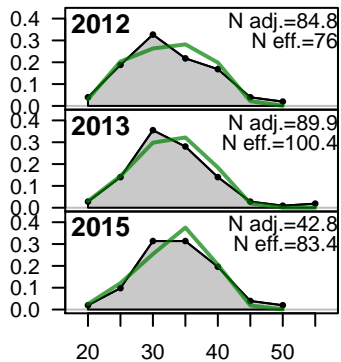
FISHERY (whole catch)





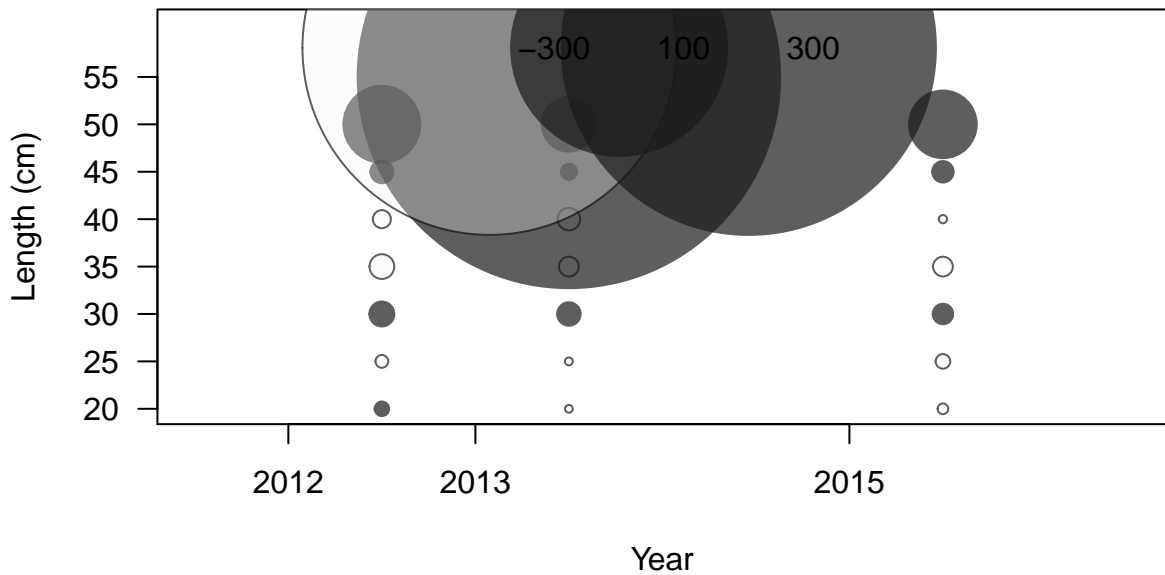


Proportion

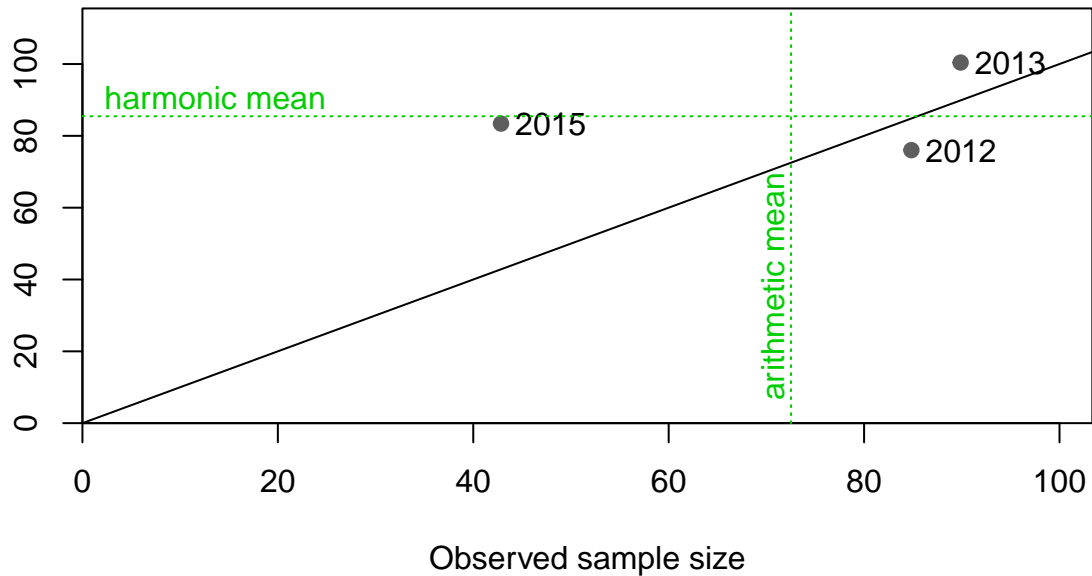


Length (cm)

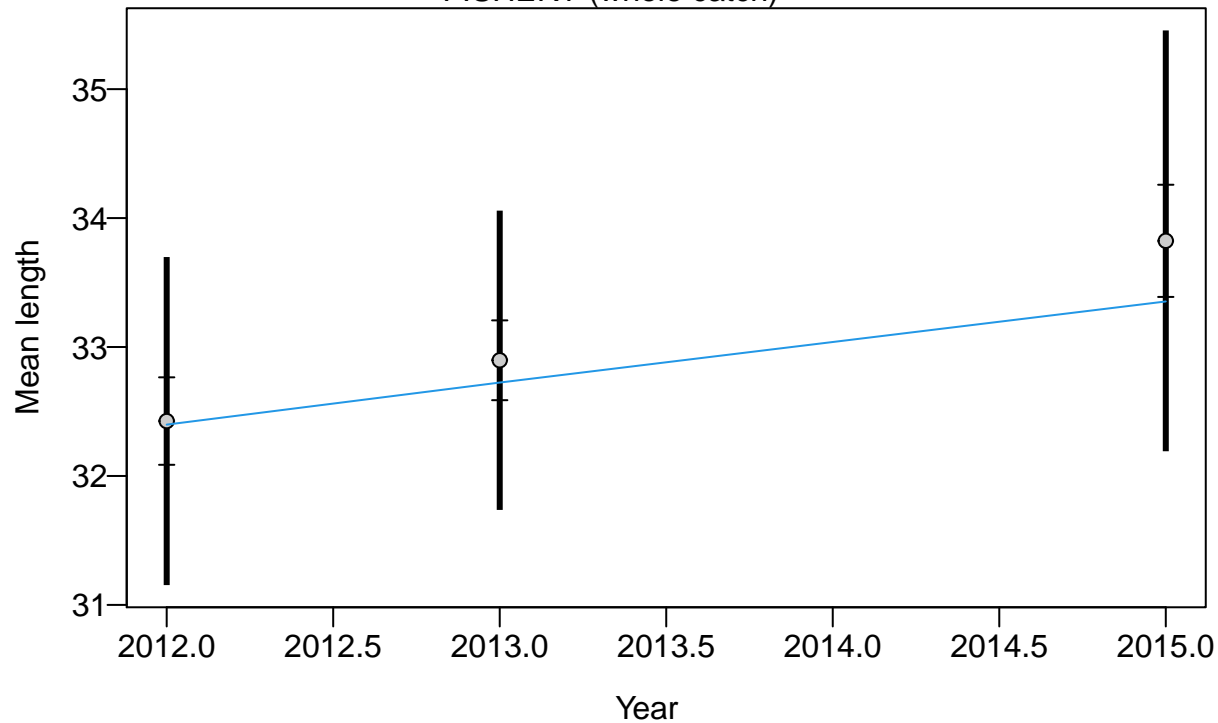


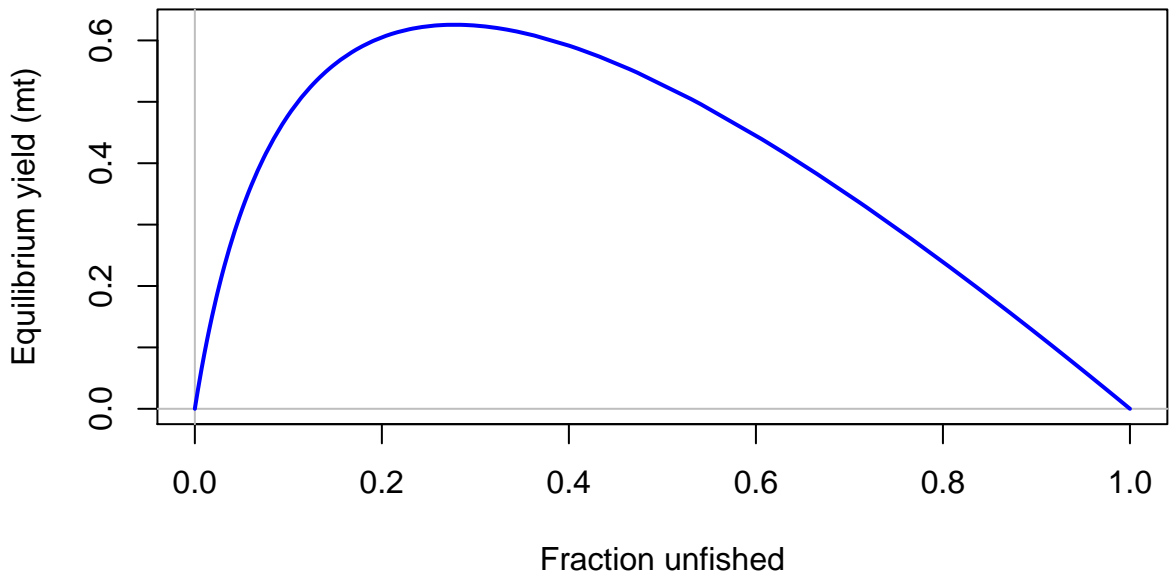


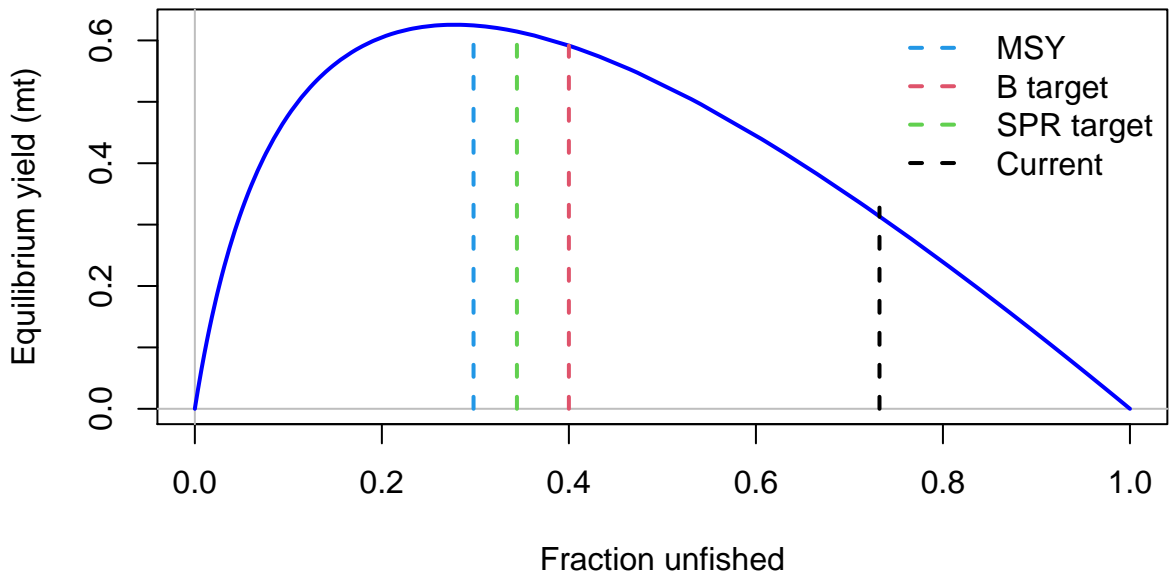
Effective sample size

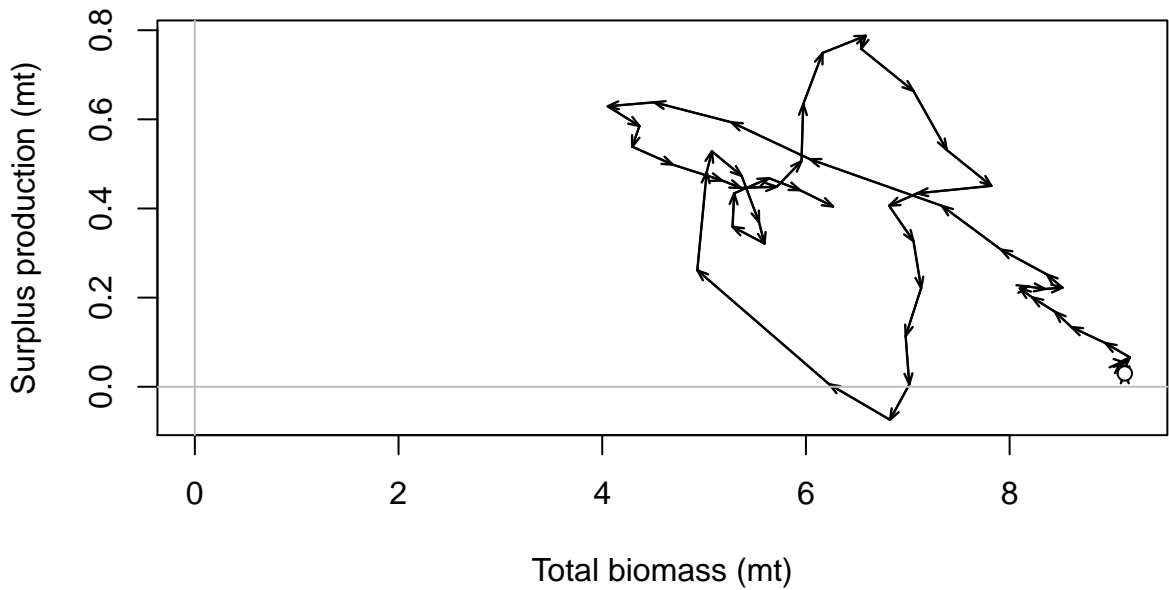


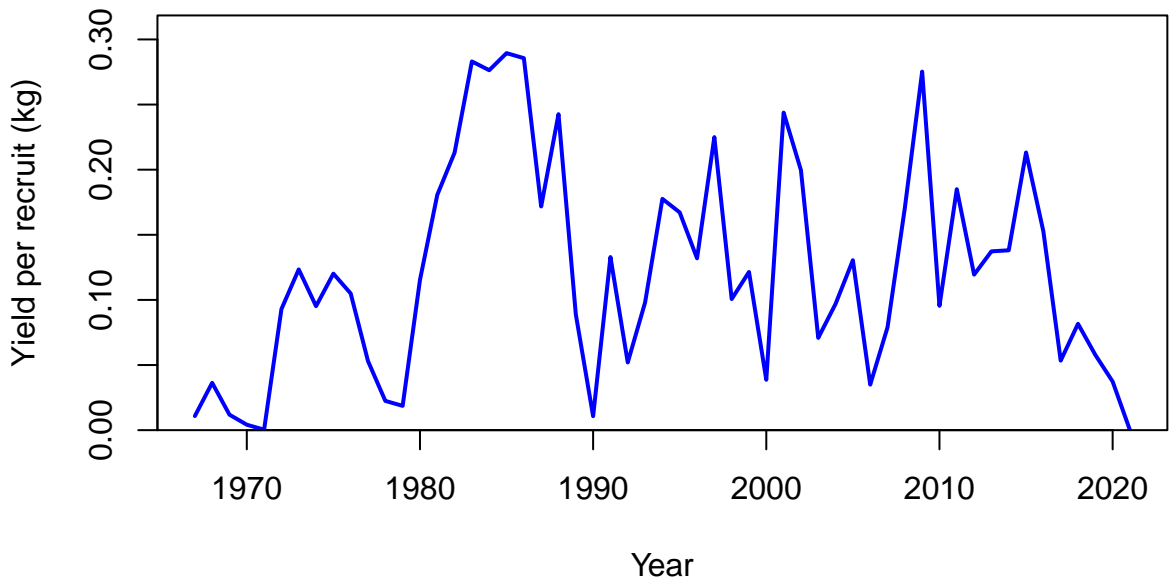
FISHERY (whole catch)

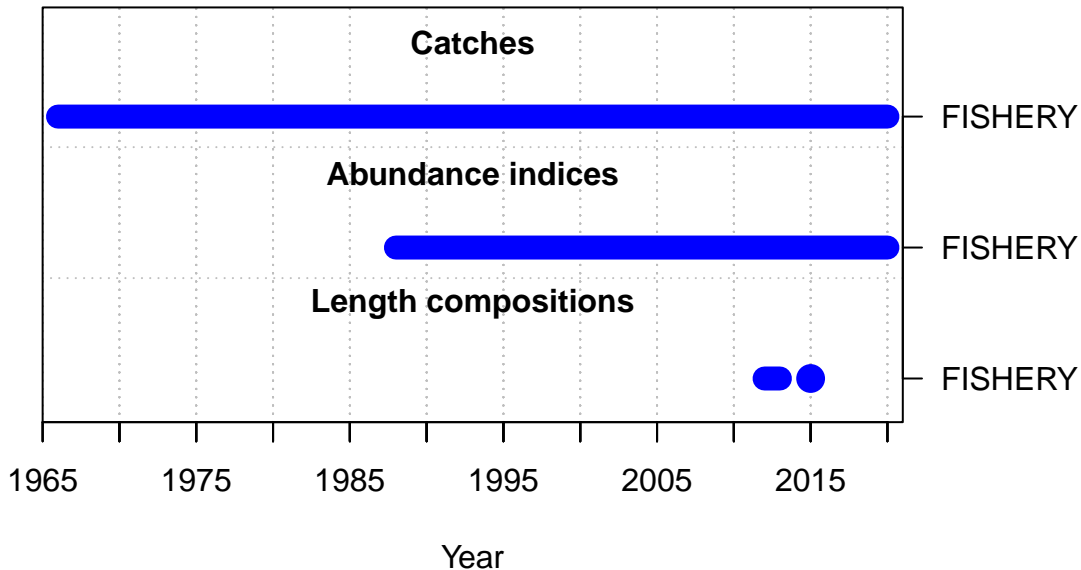




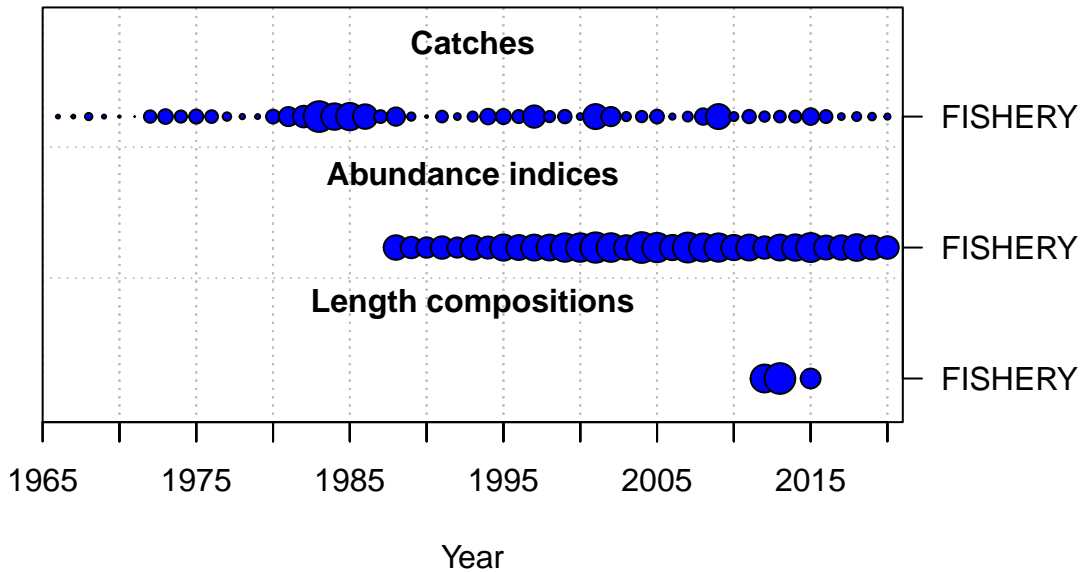








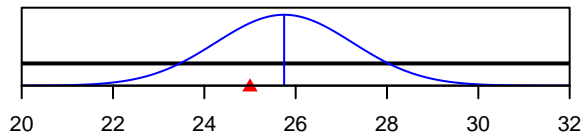




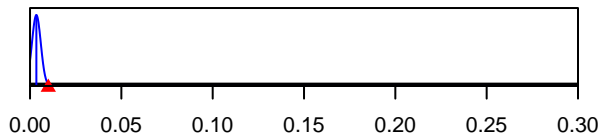
SR\_LN(R0)



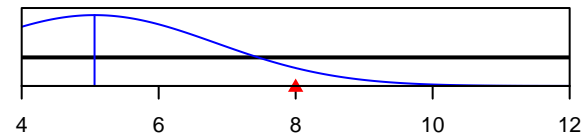
Size\_inflection\_FISHERY(1)



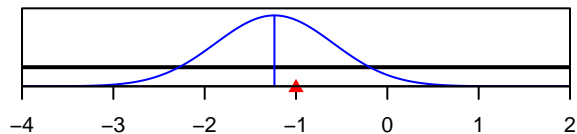
InitF\_seas\_1\_flt\_1FISHERY



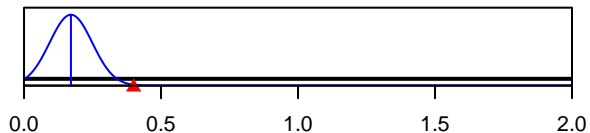
Size\_95%width\_FISHERY(1)



LnQ\_base\_FISHERY(1)



Q\_extraSD\_FISHERY(1)



Parameter value