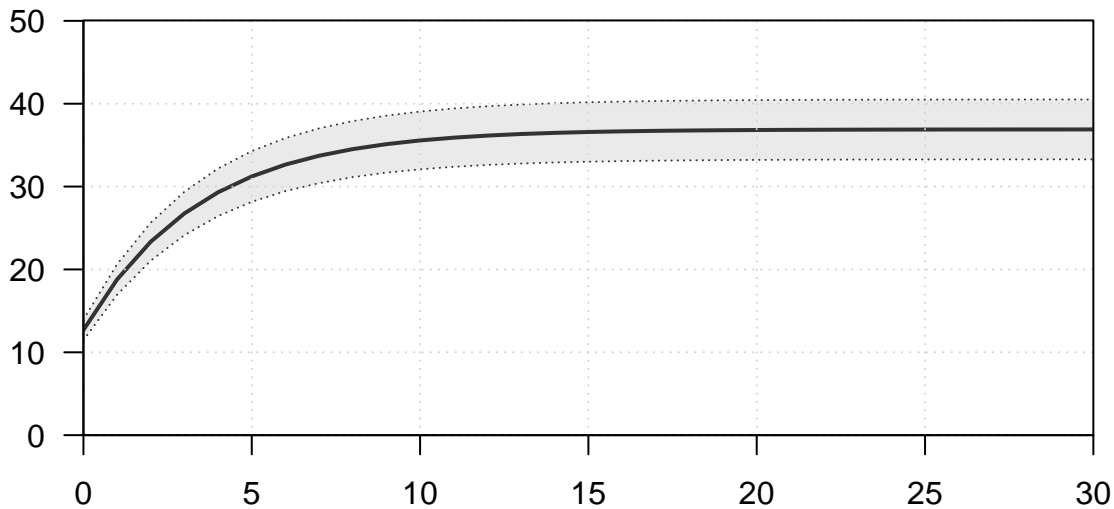
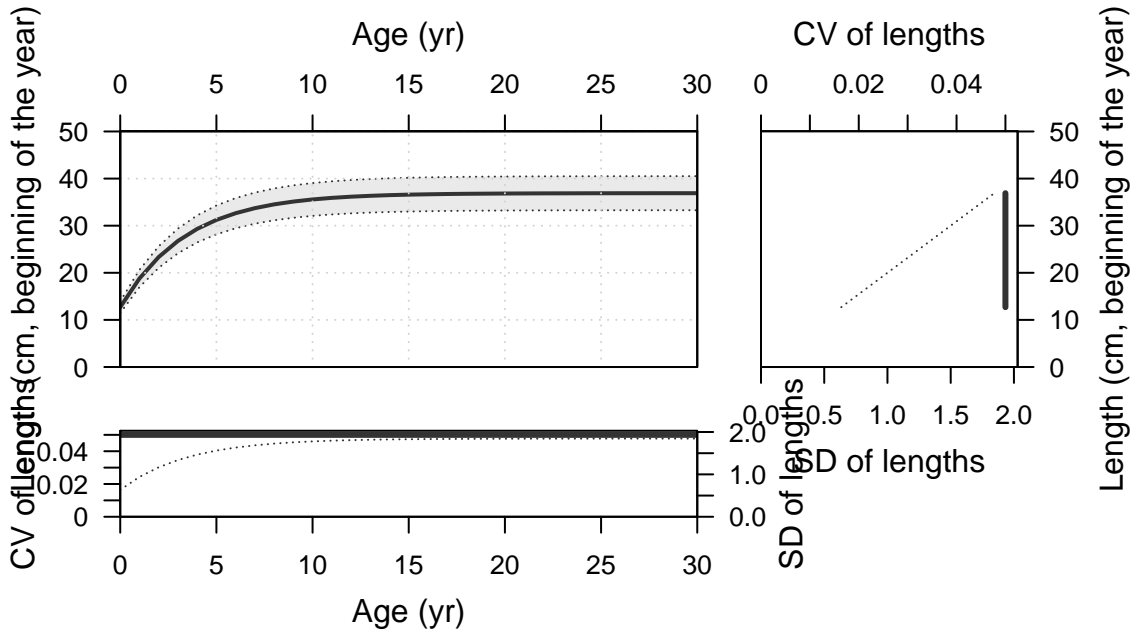


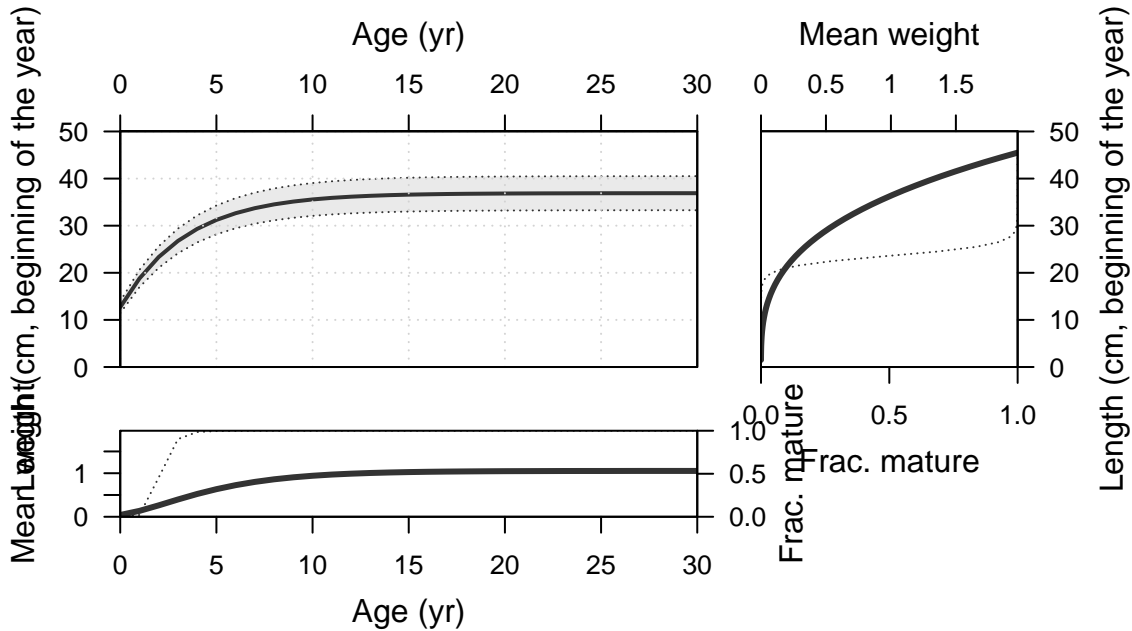
Plots created using the 'r4ss' package in R  
Stock Synthesis version: 3.30.19.0  
StartTime: Thu Jul 14 13:54:39 2022  
Data\_File: data.ss  
Control\_File: control.ss

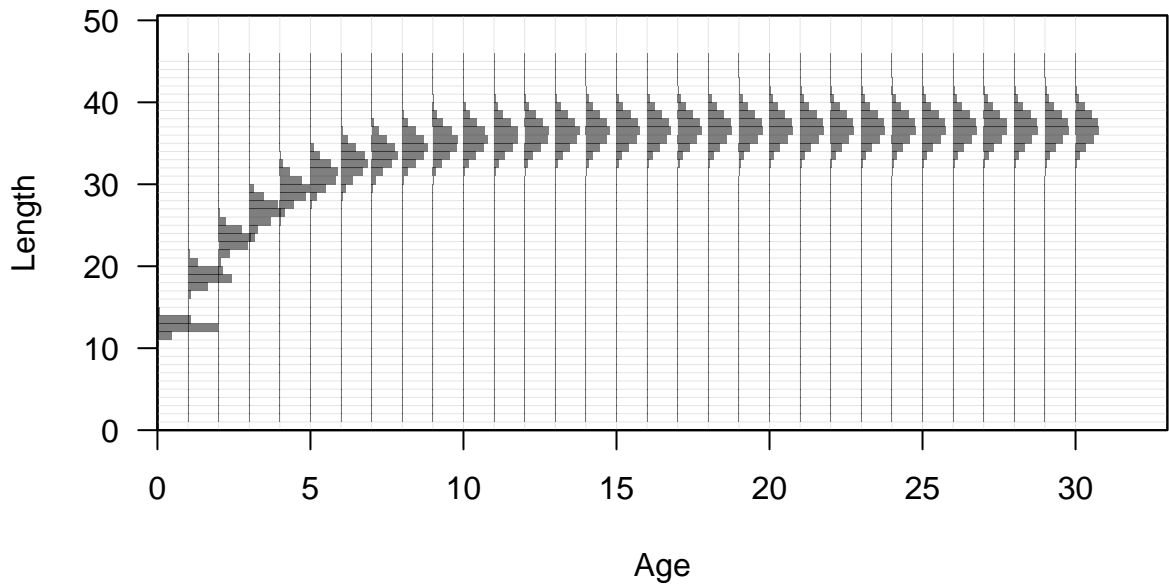
Length (cm, beginning of the year)

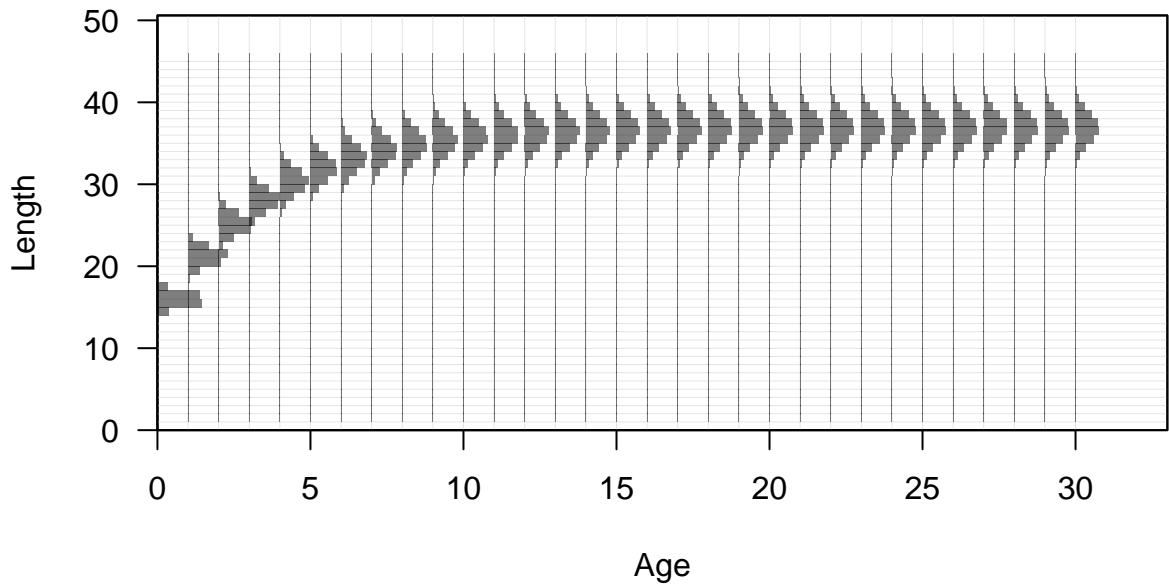


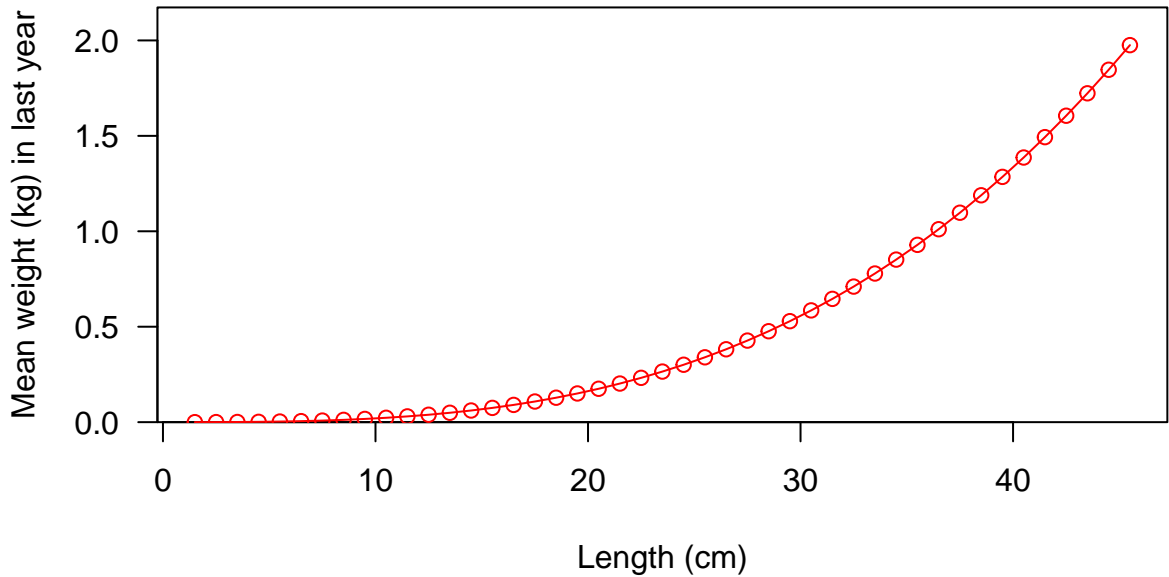
Age (yr)

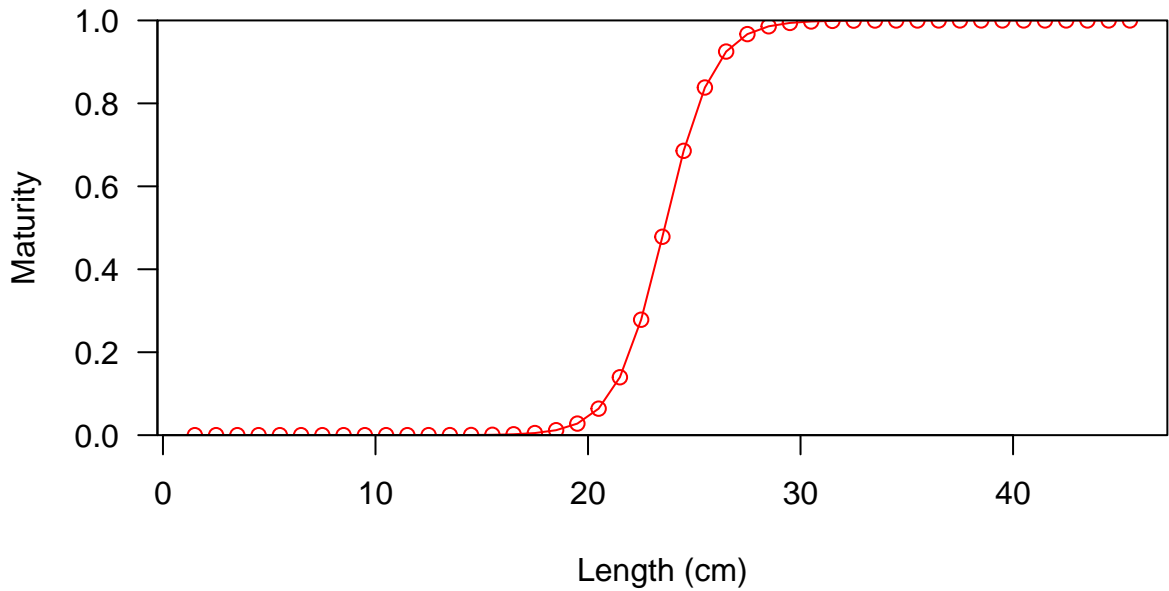




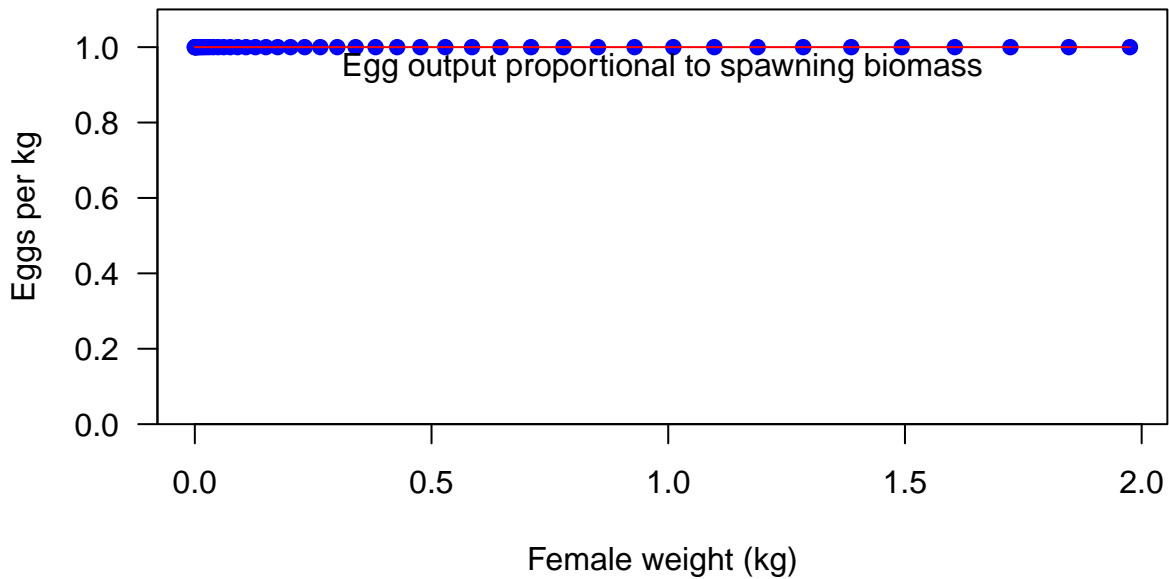


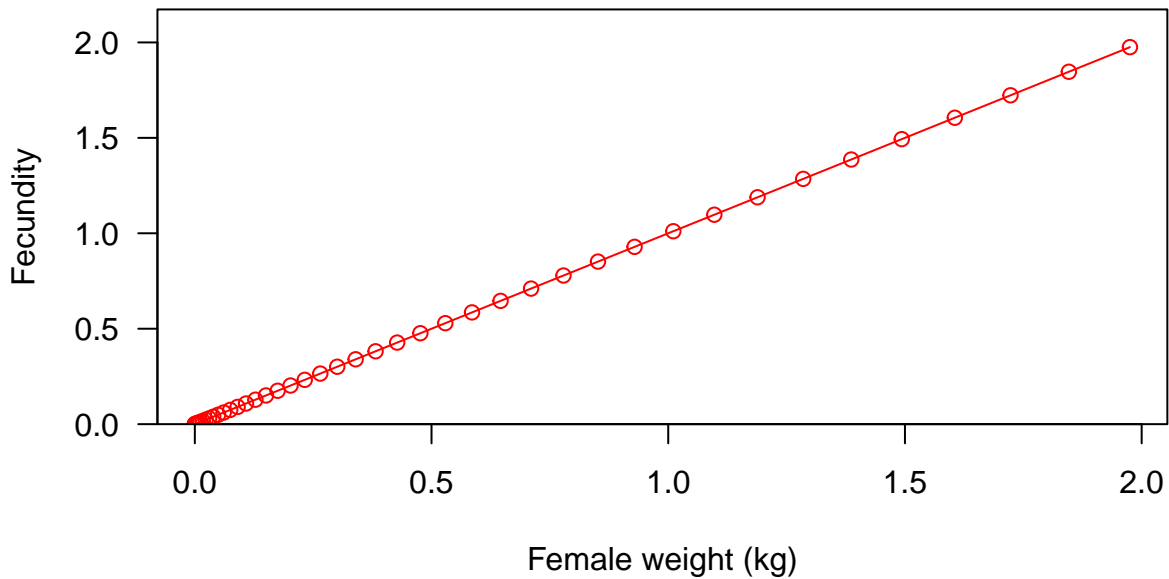


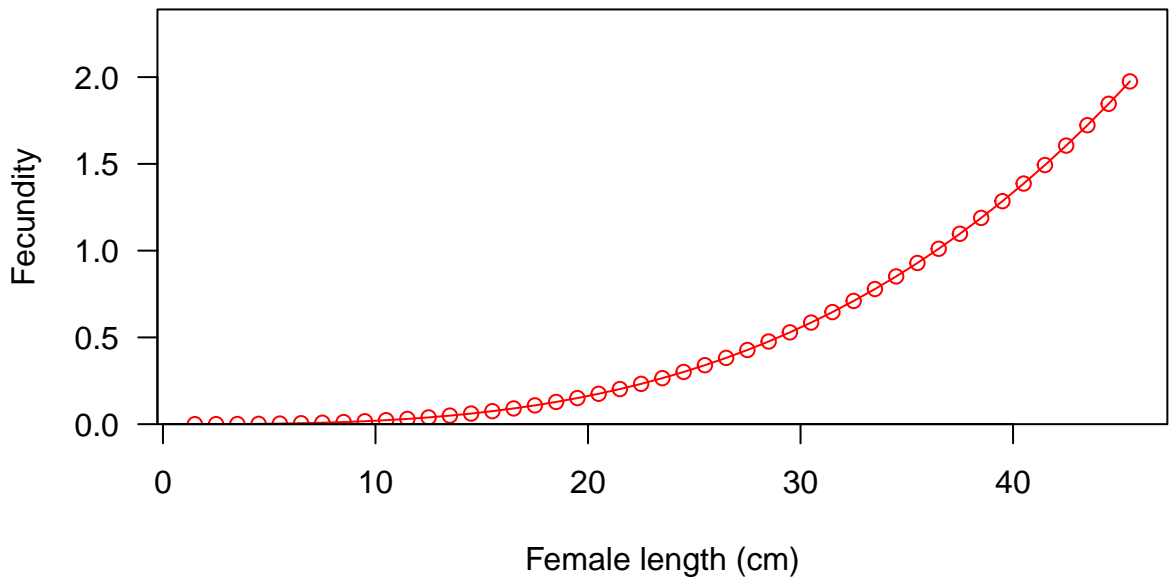


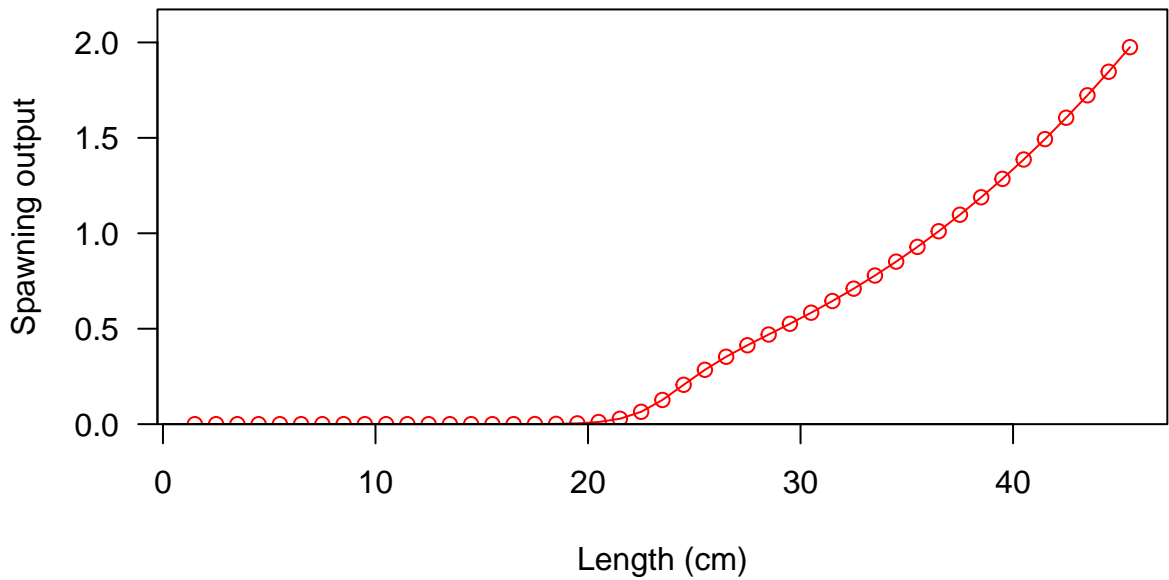


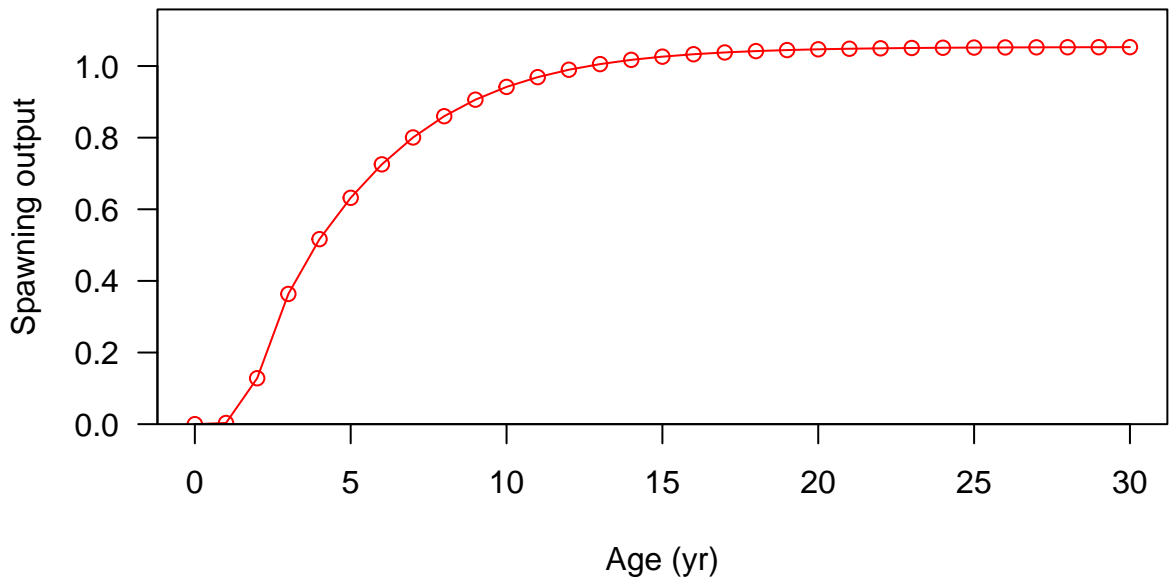




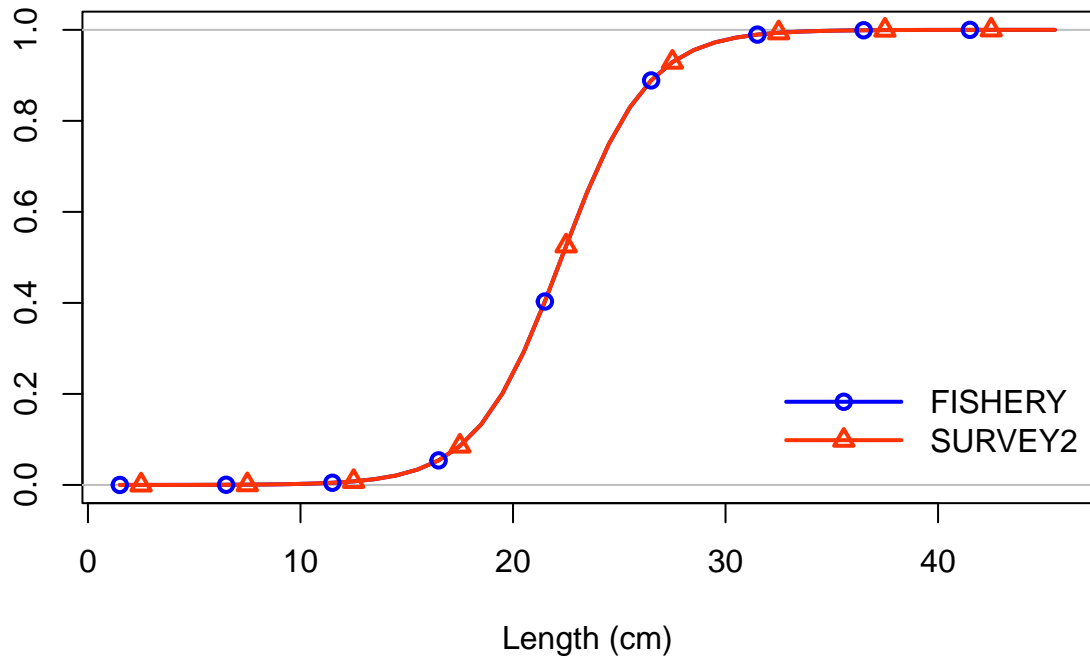




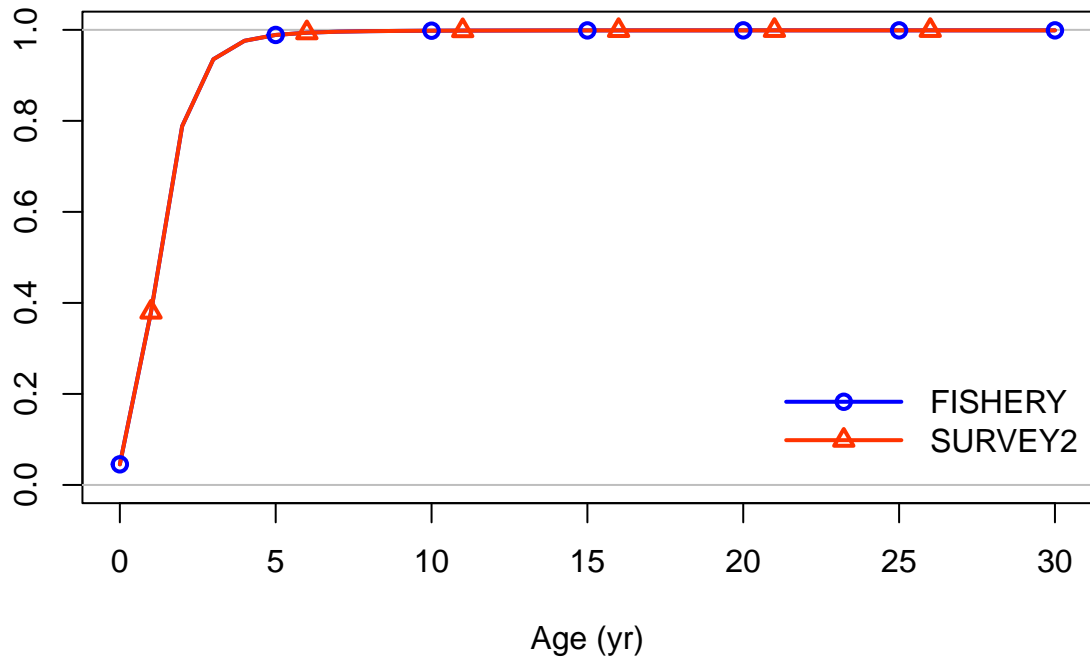




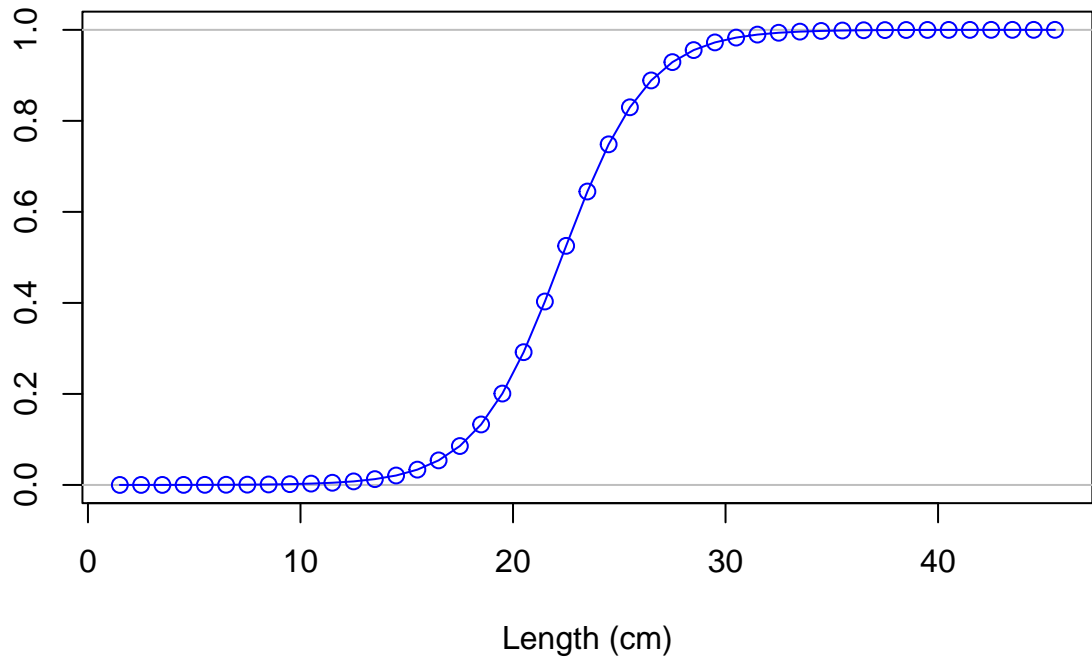
Selectivity



Selectivity

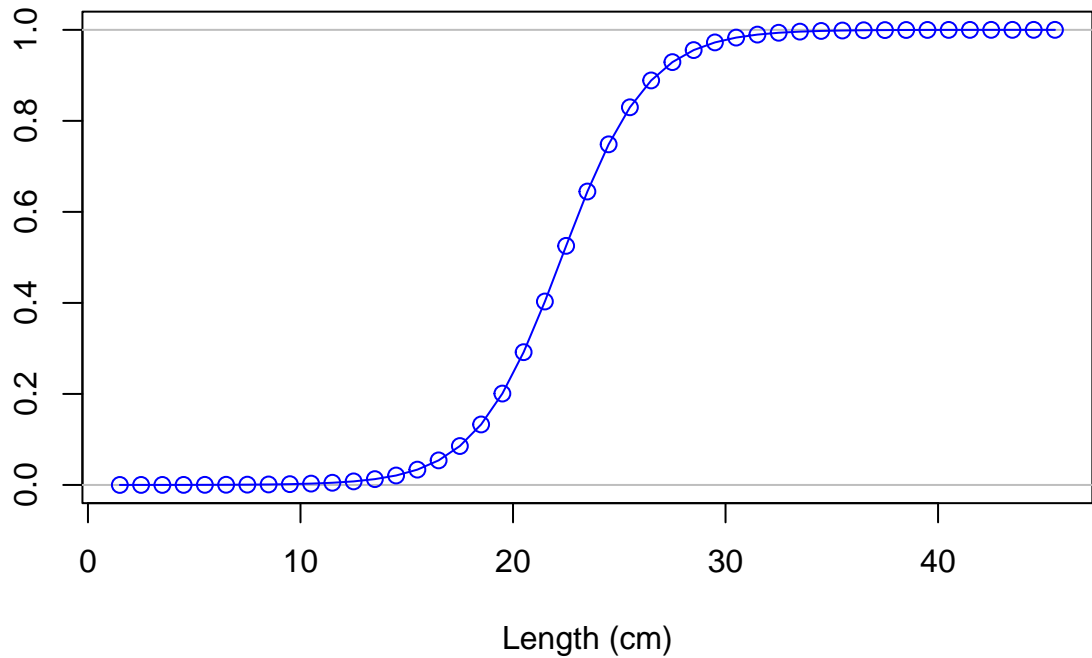


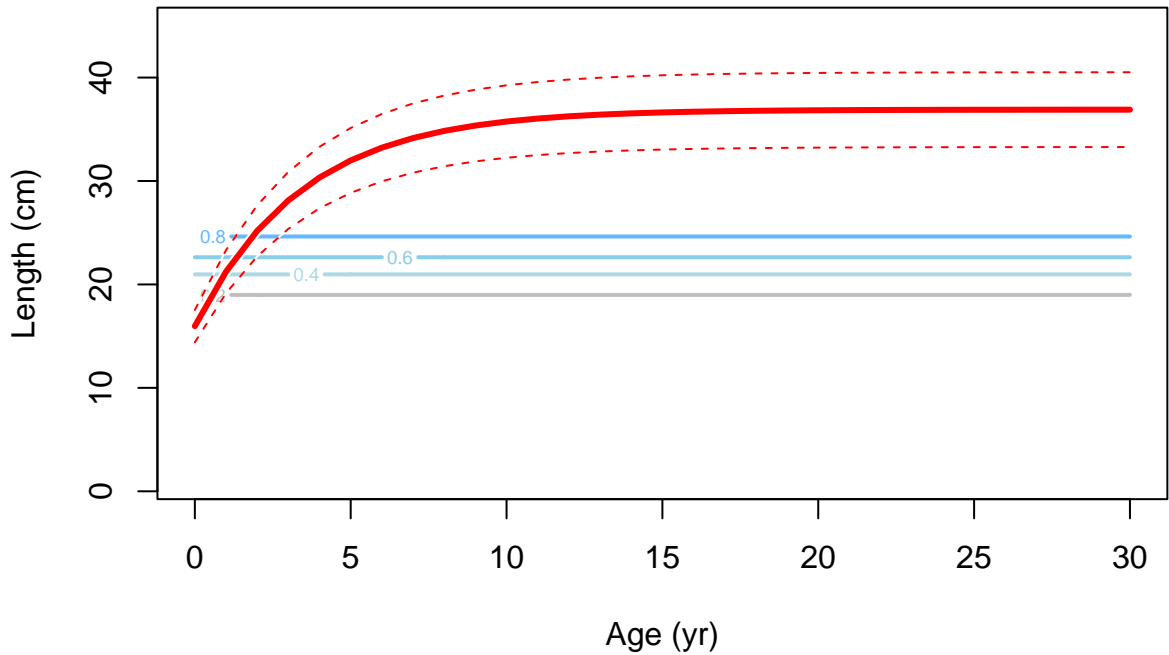
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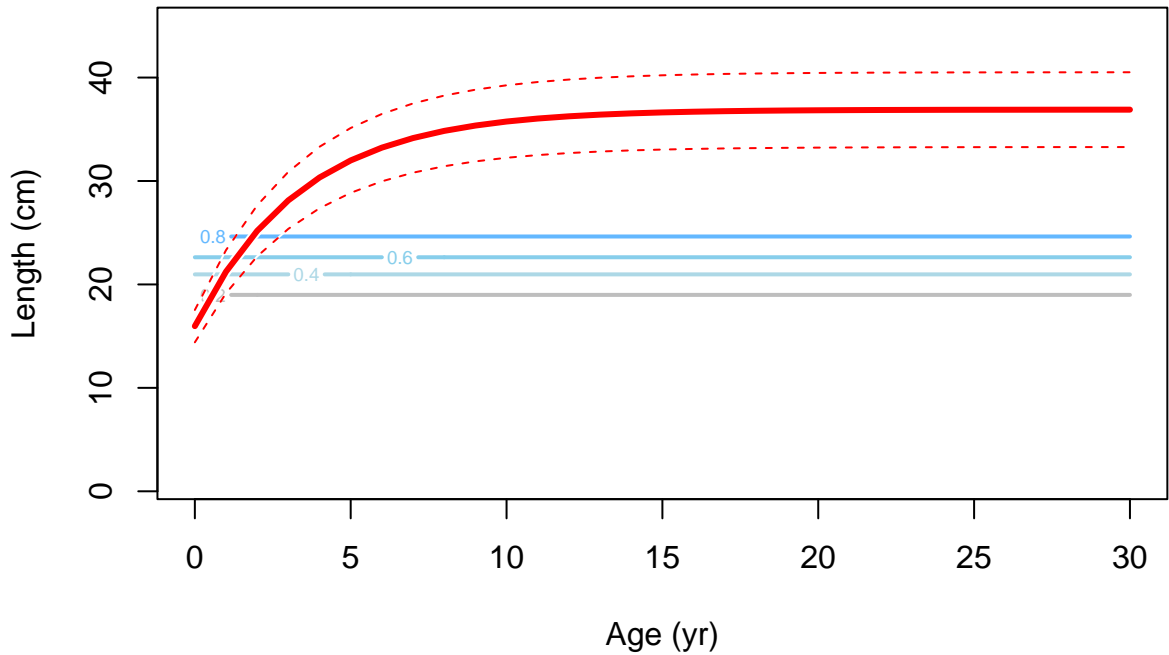


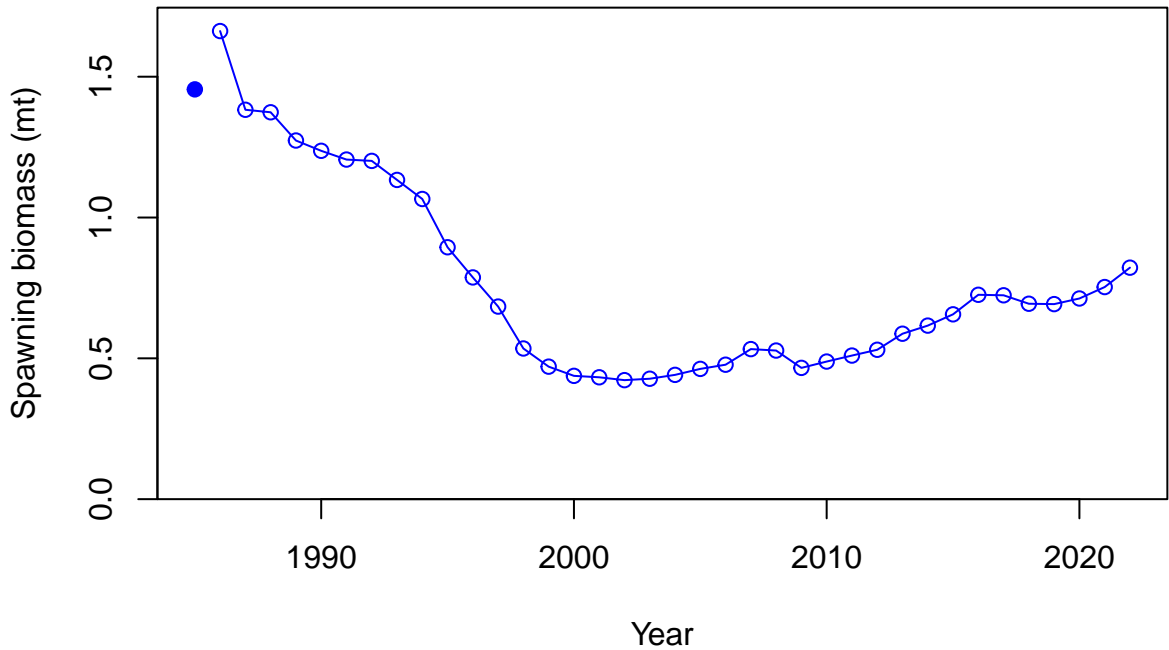


Selectivity

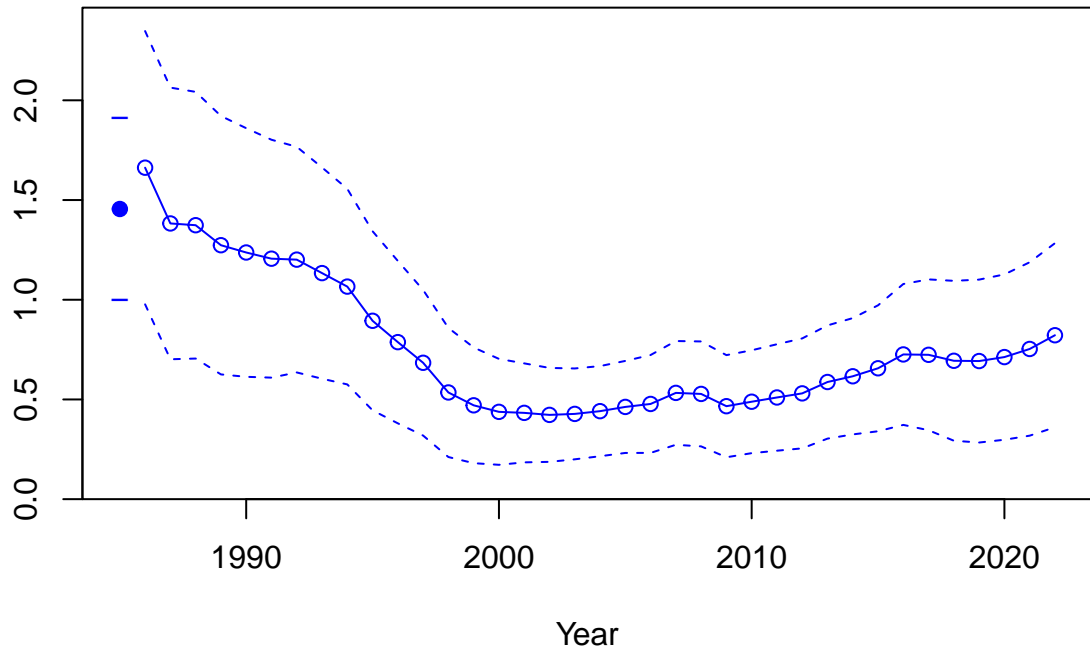




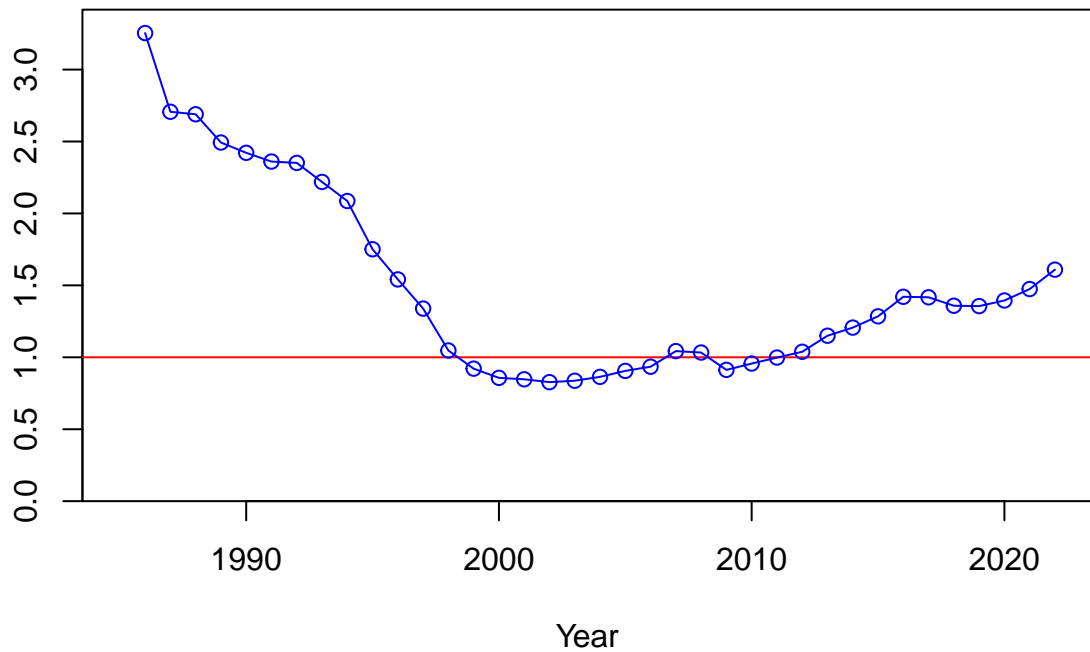




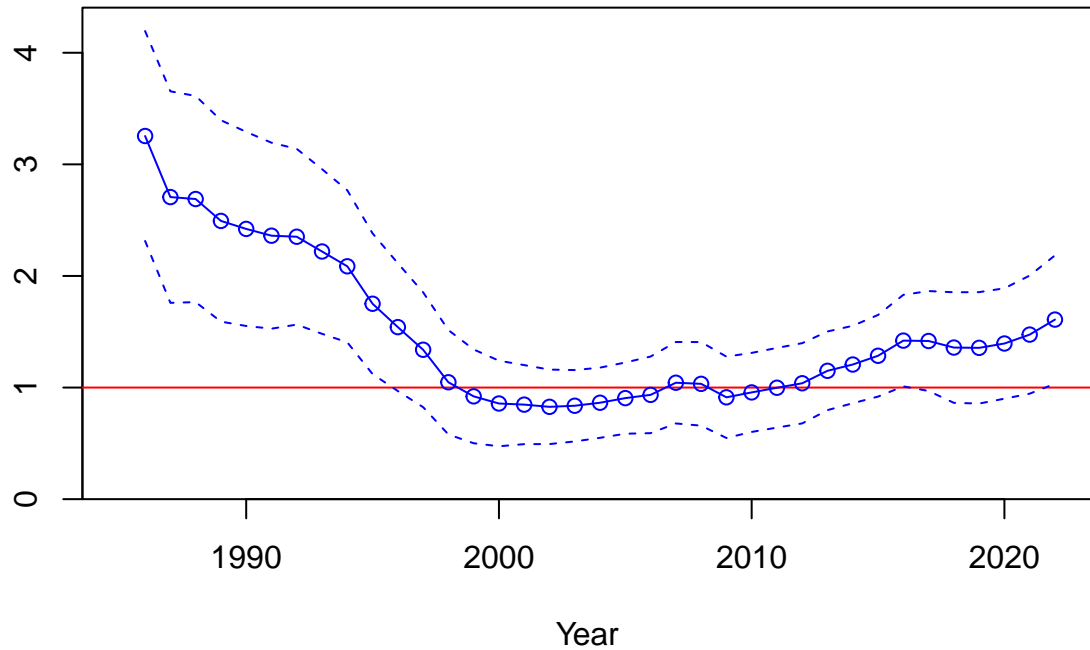
Spawning biomass (mt)

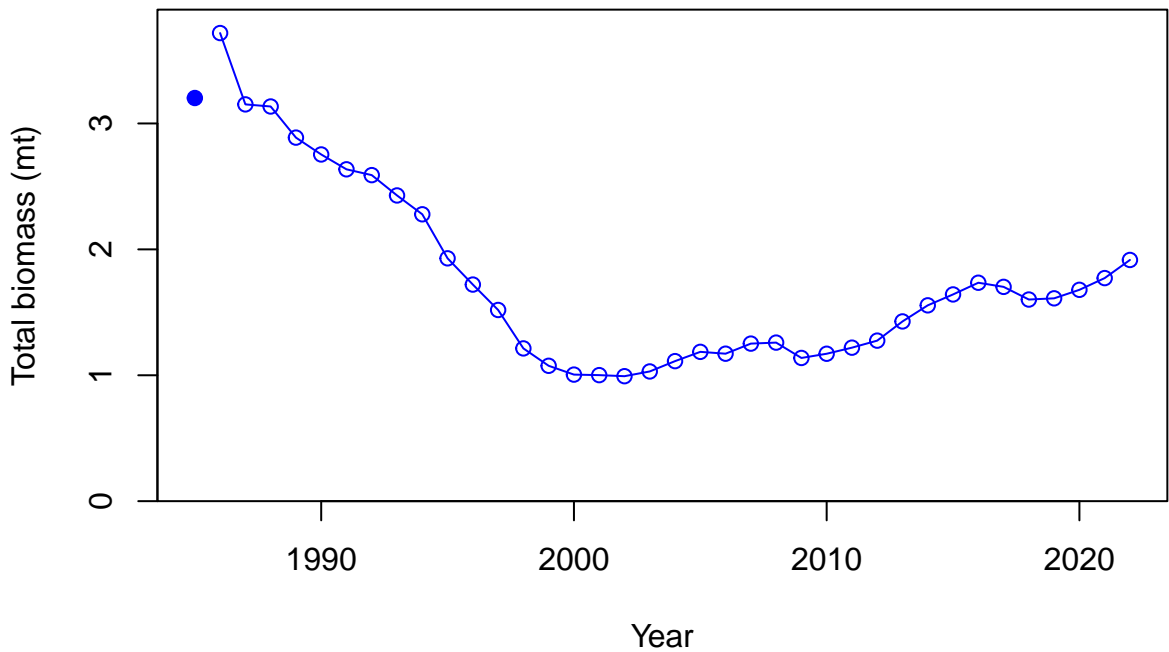


Relative spawning biomass:  $B/B_{MSY}$

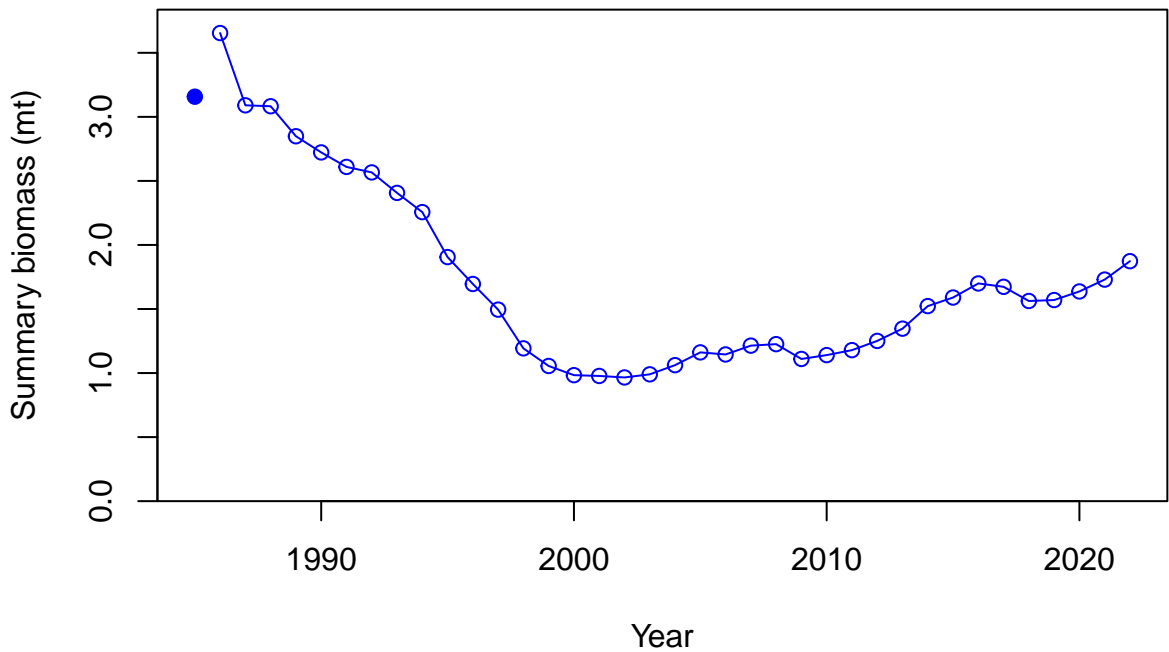


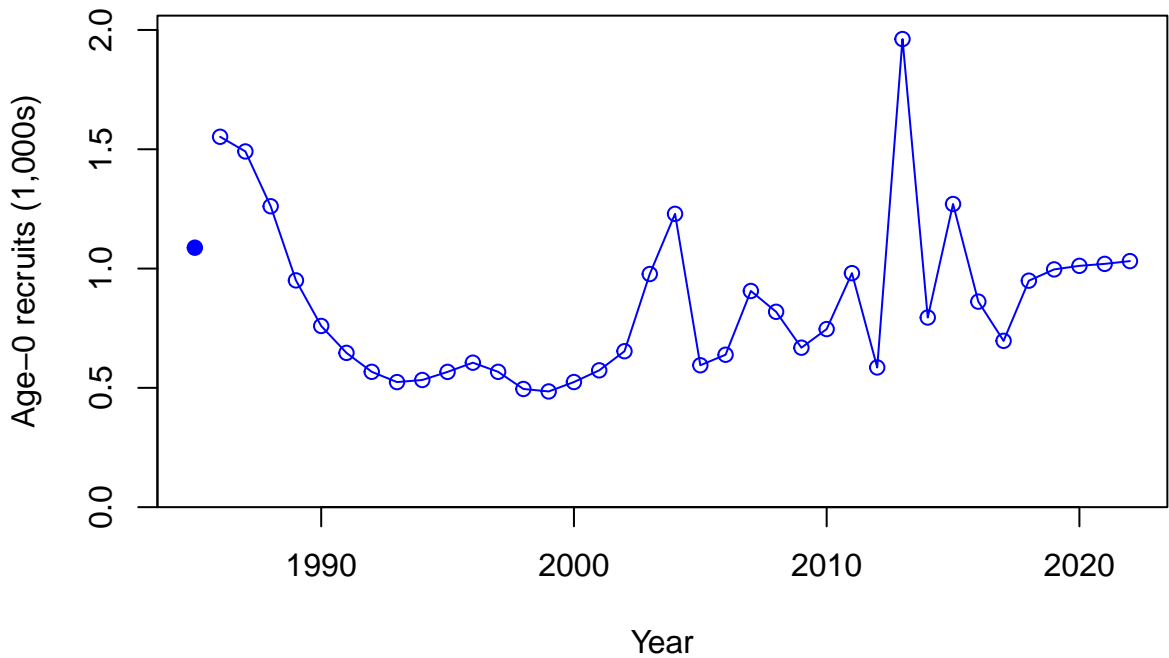
Relative spawning biomass:  $B/B_{MSY}$



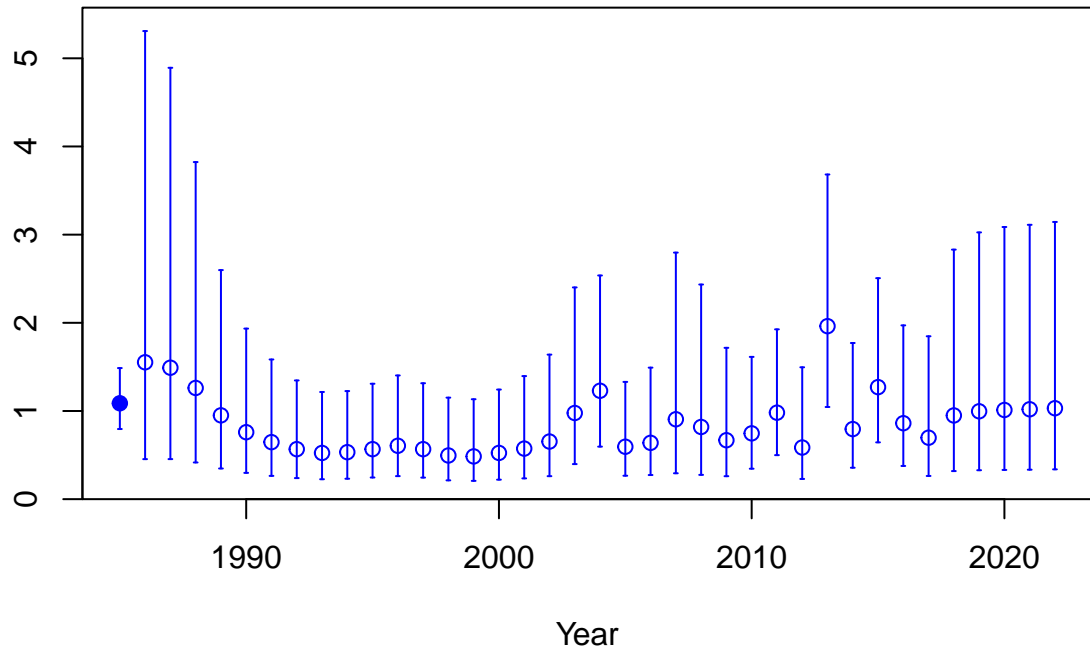




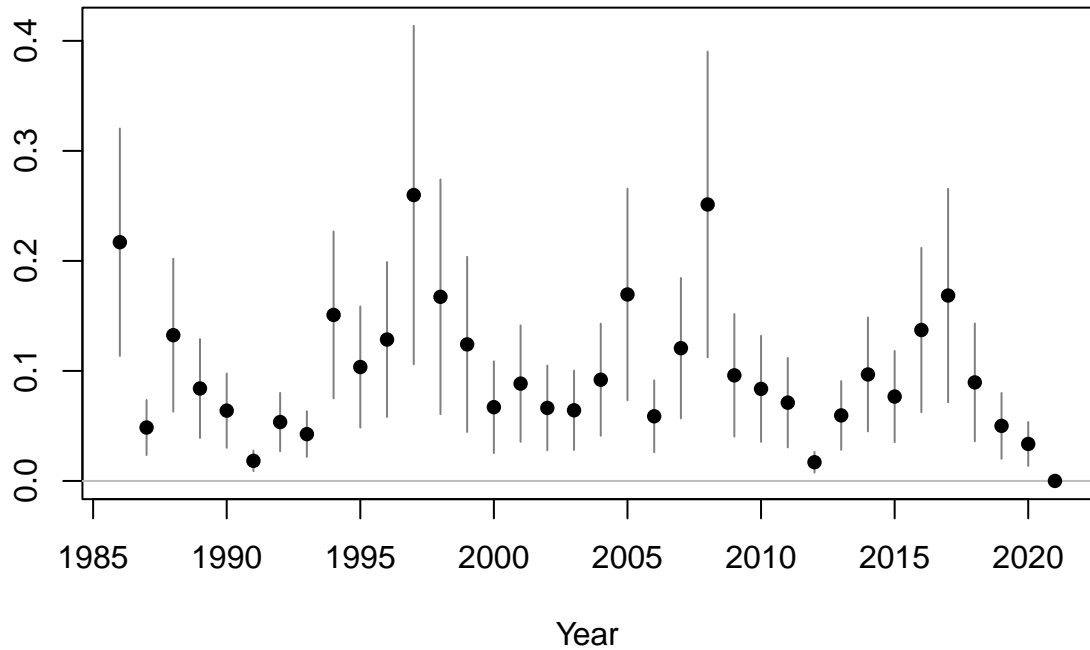


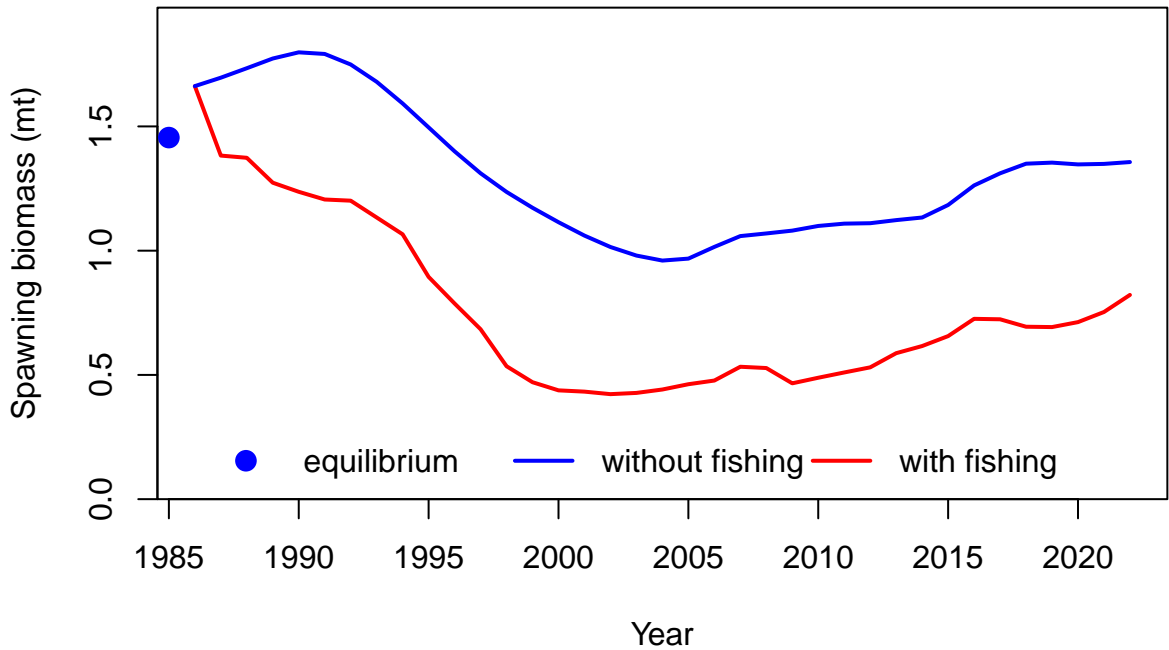


Age-0 recruits (1,000s)



Summary Fishing Mortality





Log recruitment deviation

0.5  
0.0  
-0.5

1970

1980

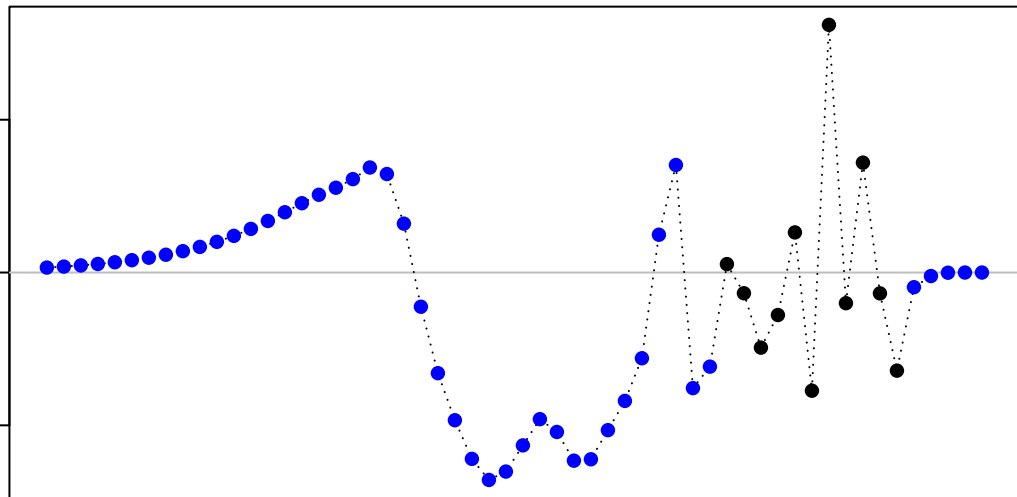
1990

2000

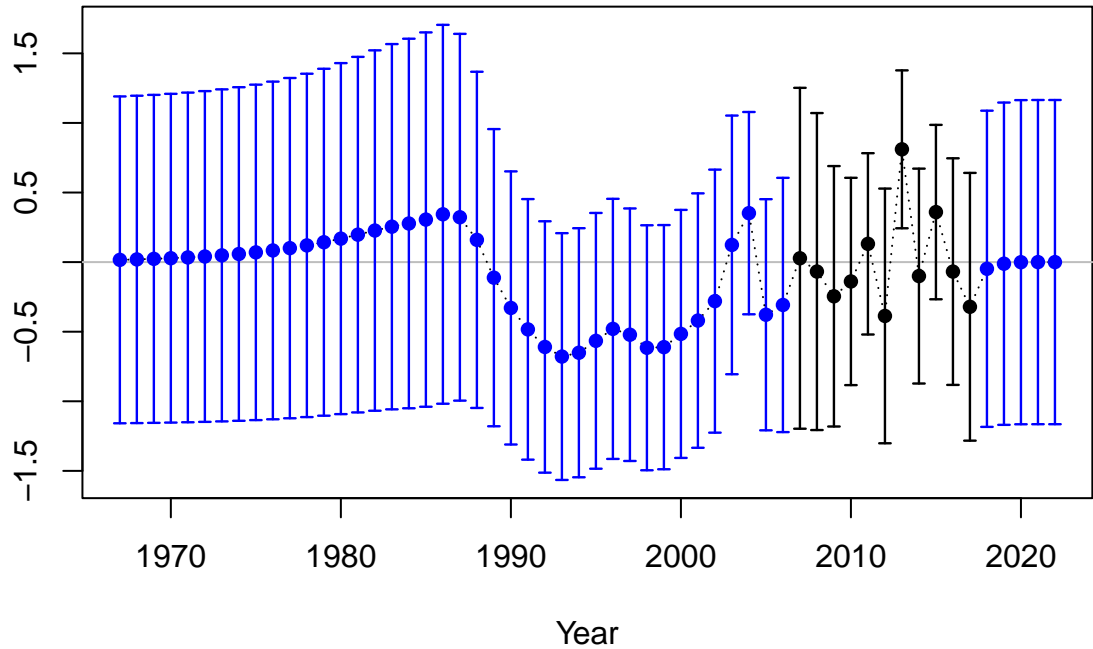
2010

2020

Year

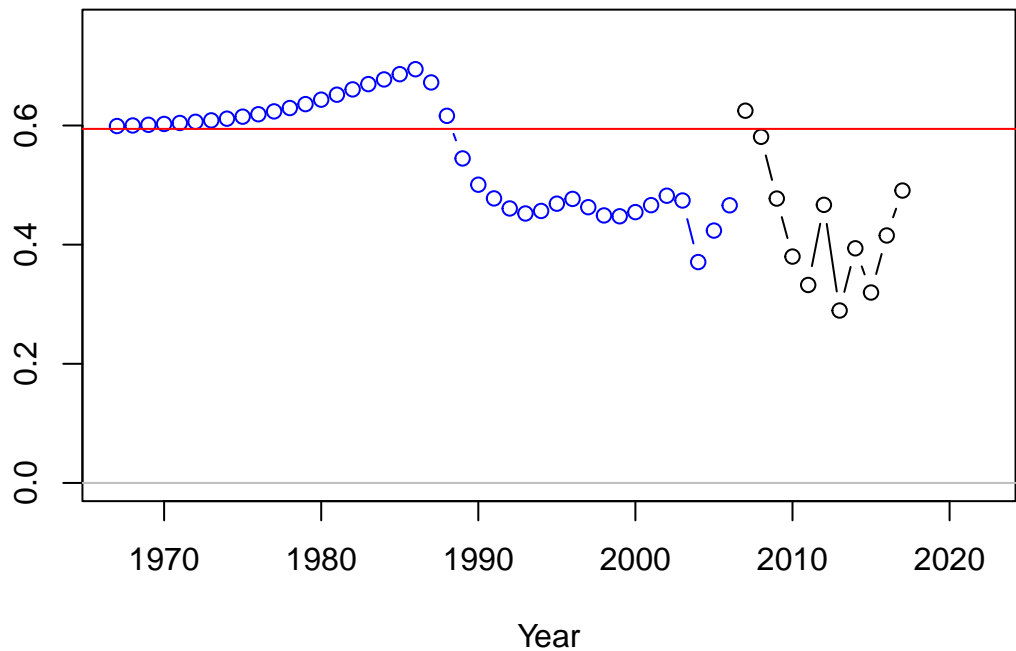


Log recruitment deviation

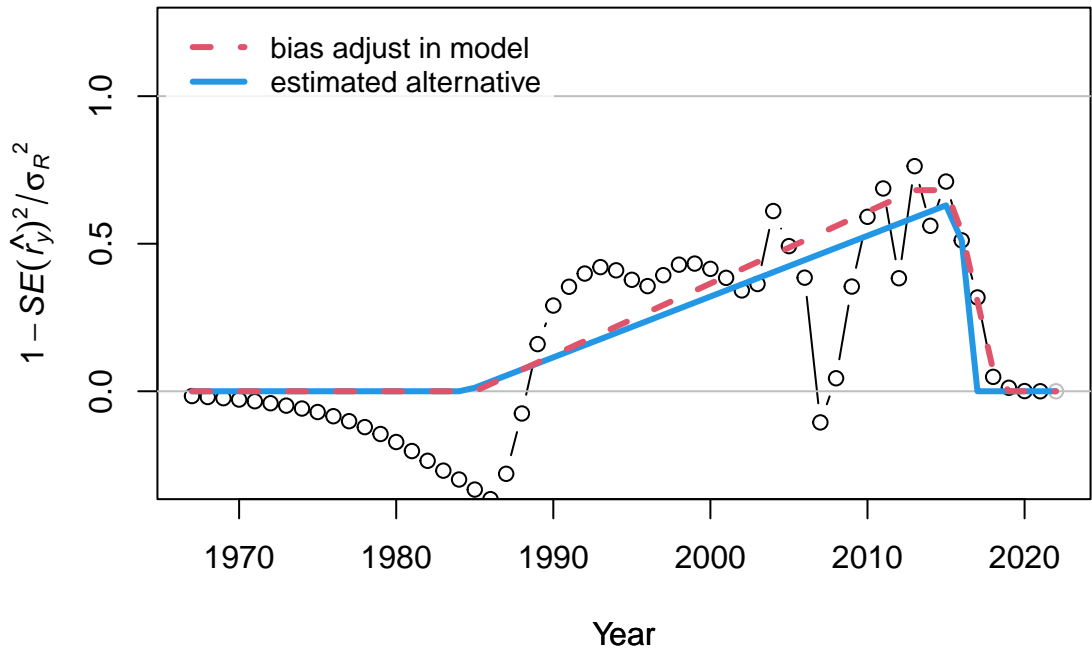


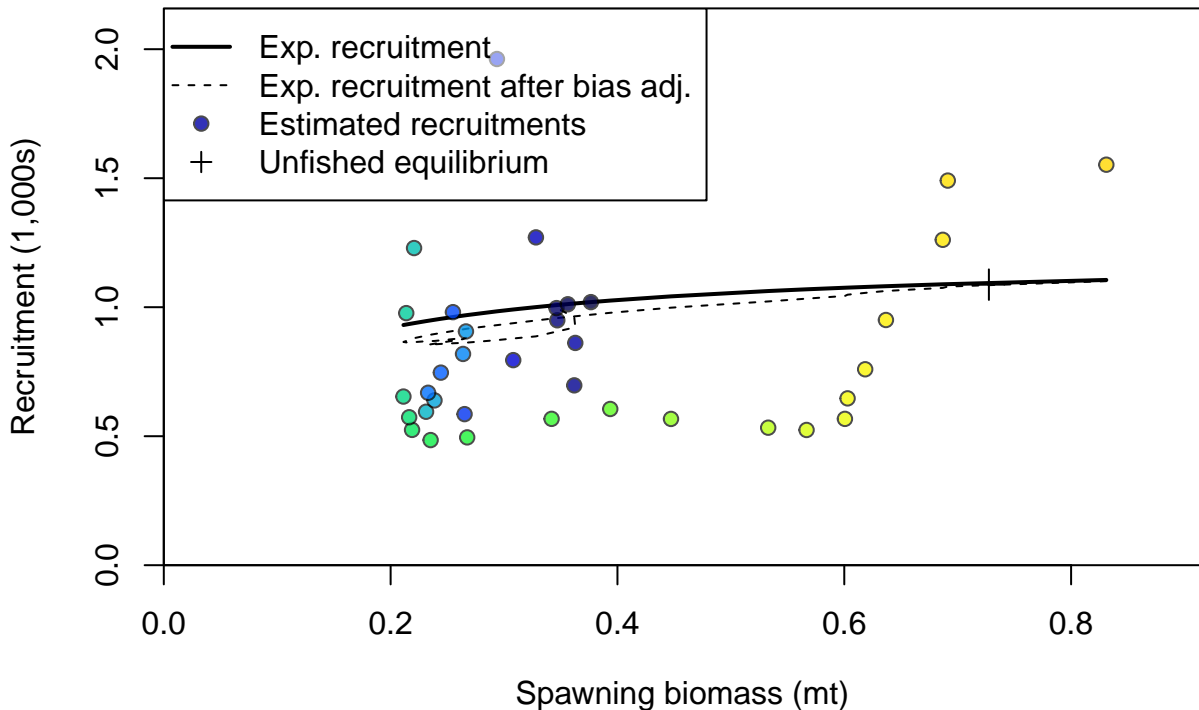
## Recruitment deviation variance

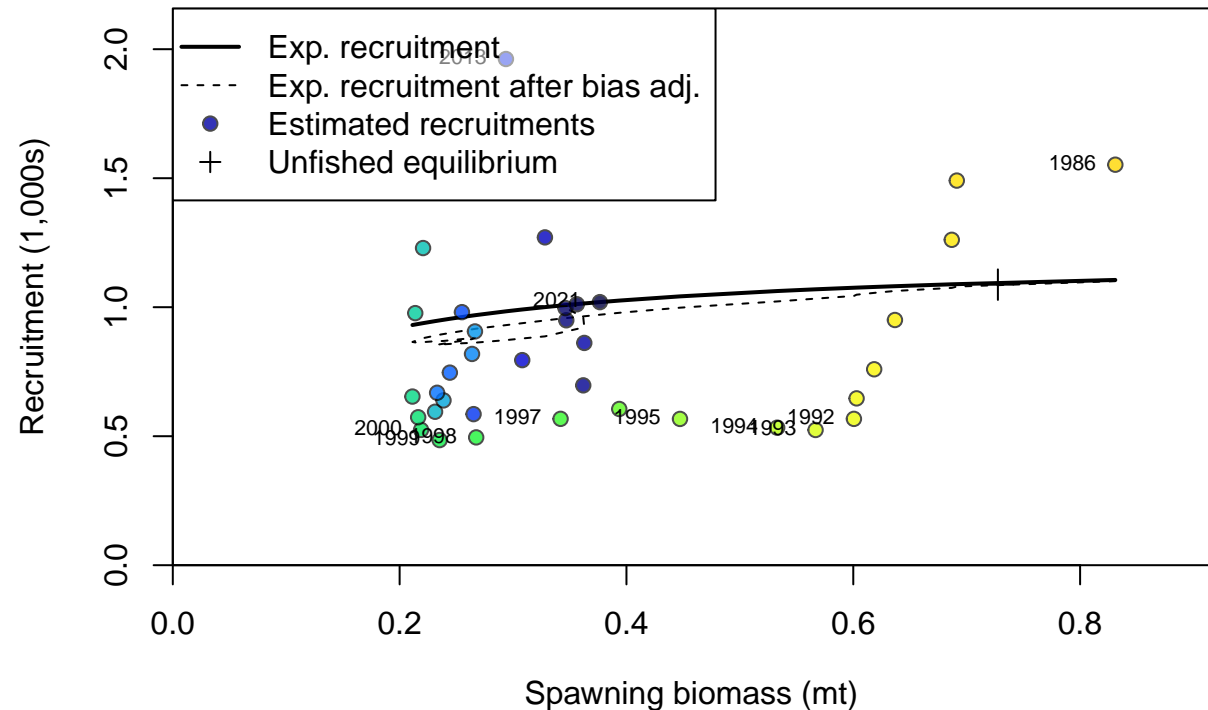
Asymptotic standard error estimate



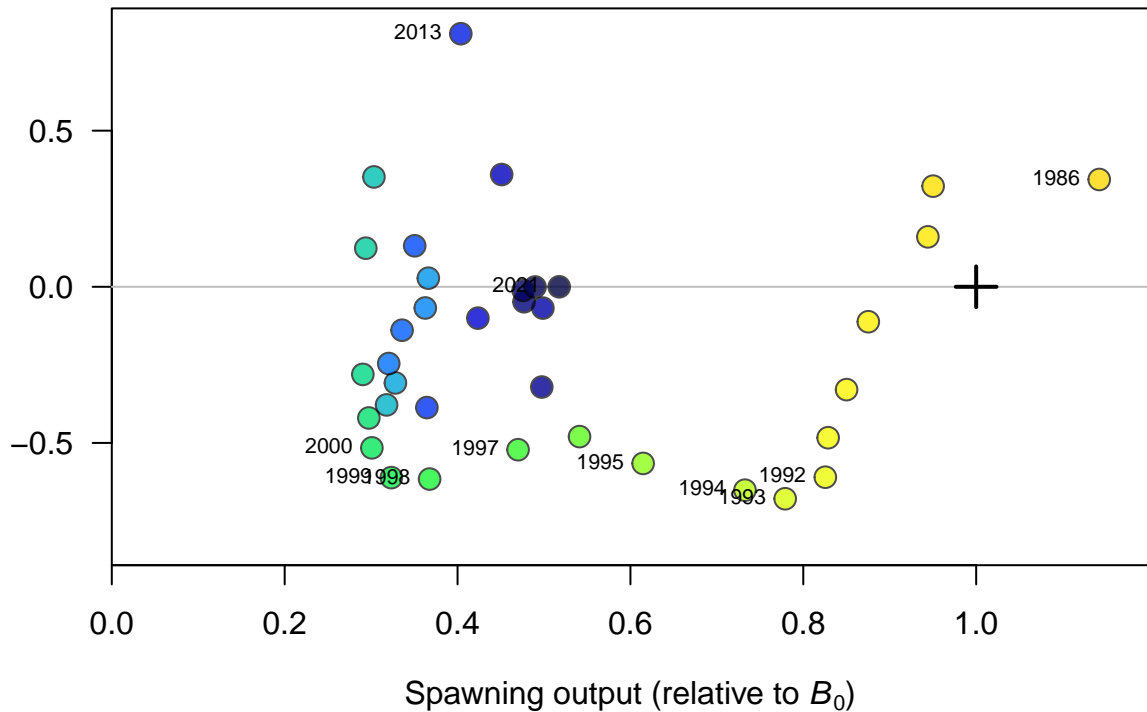


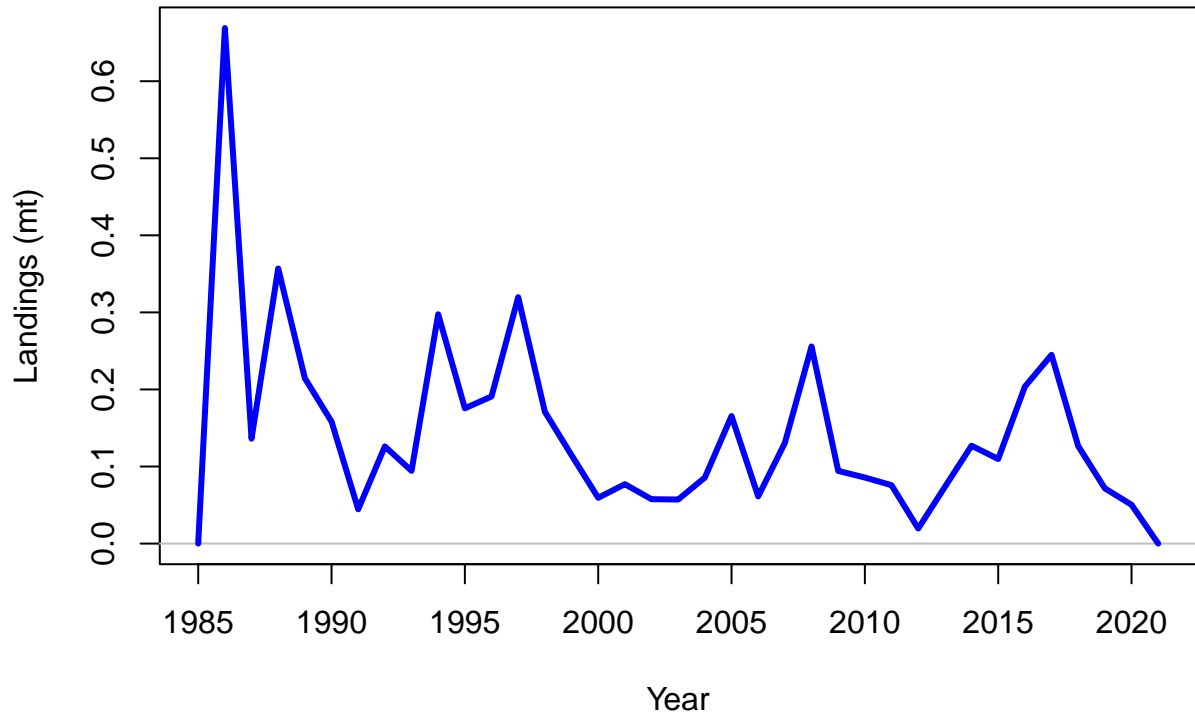


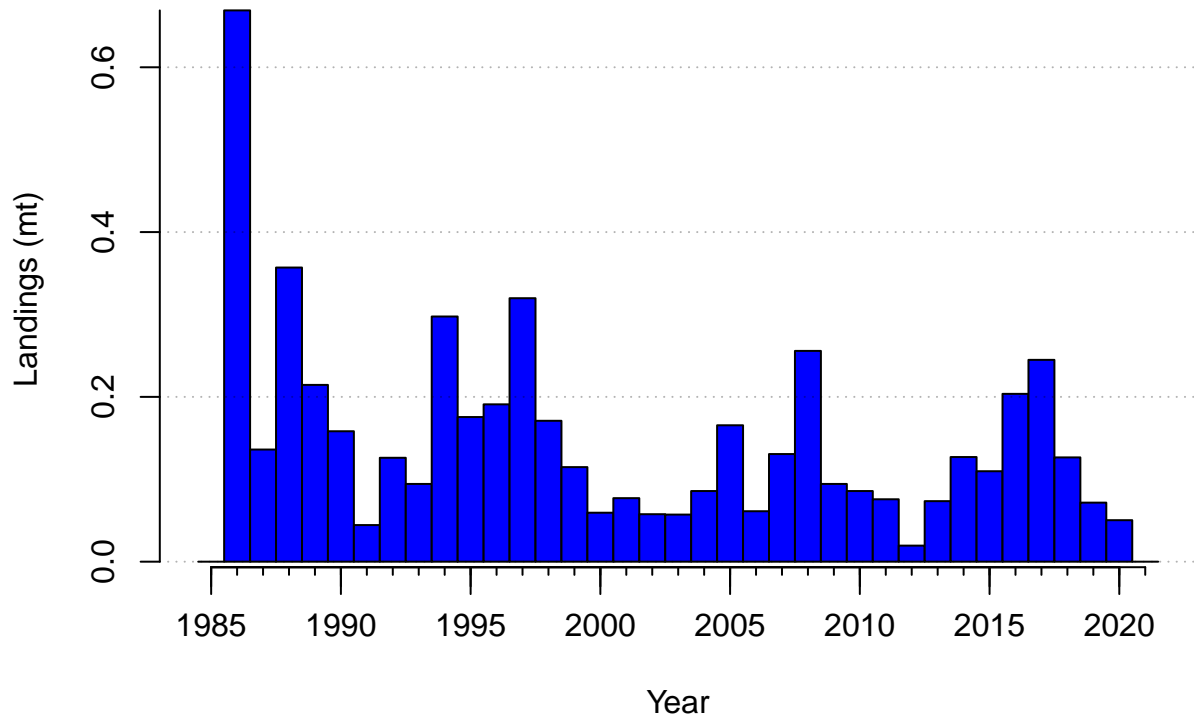


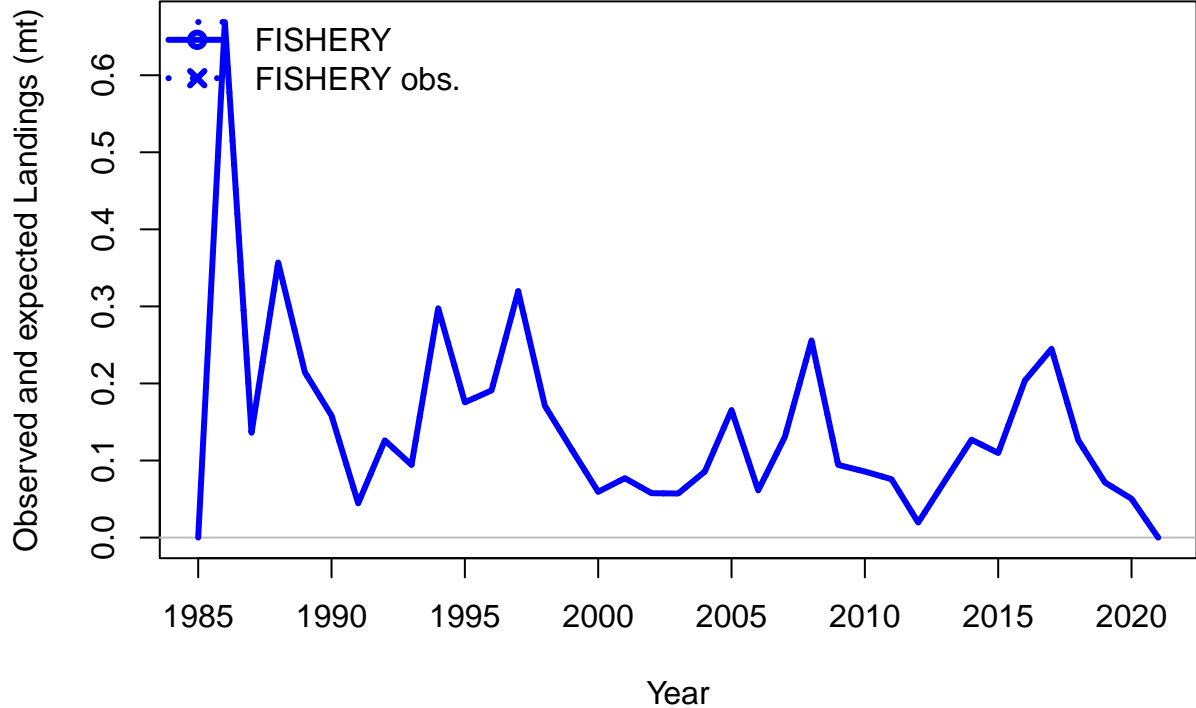


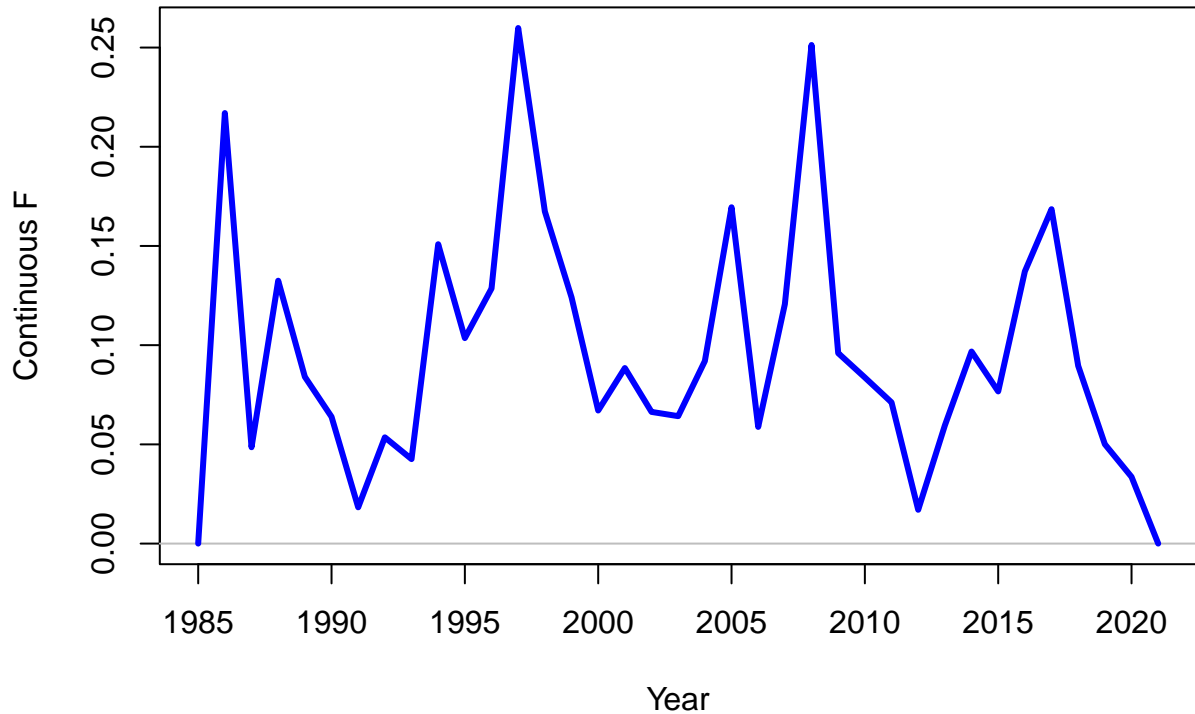
Log recruitment deviation





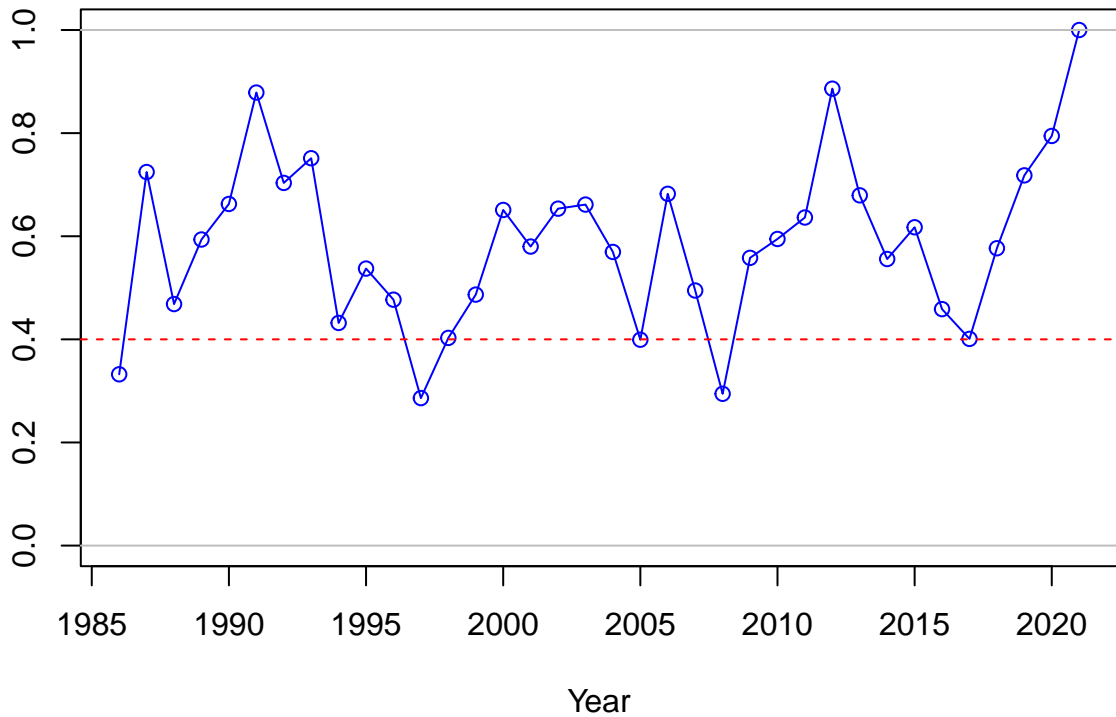


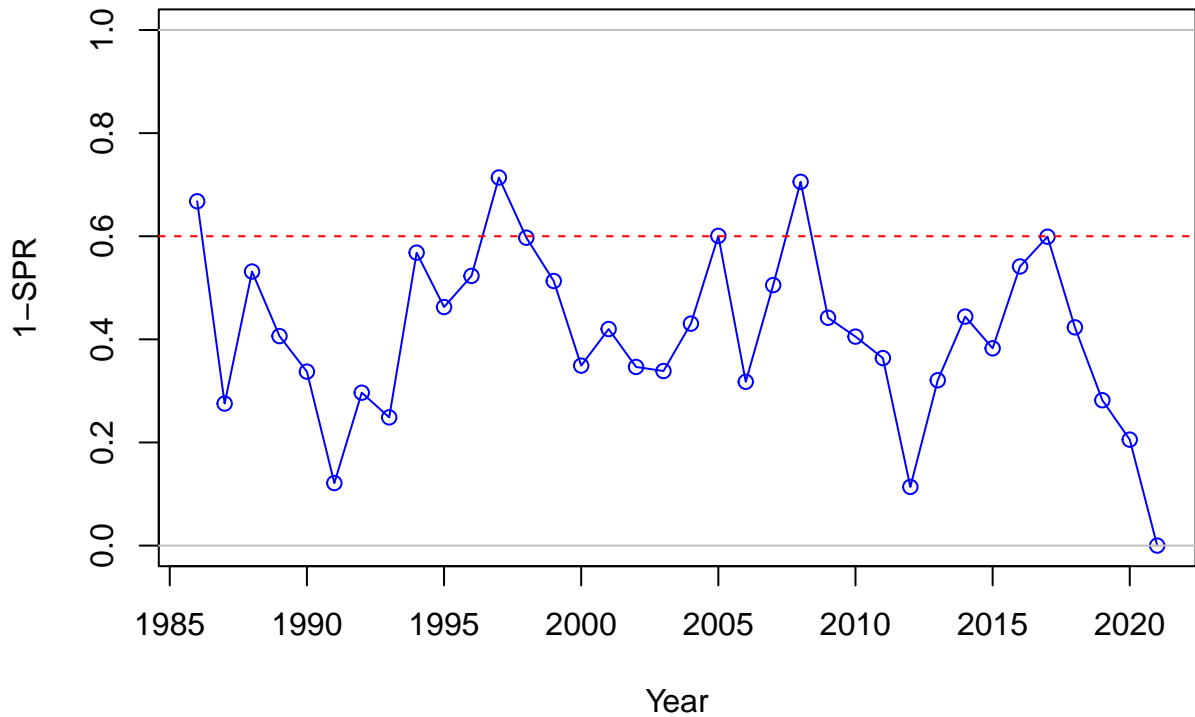




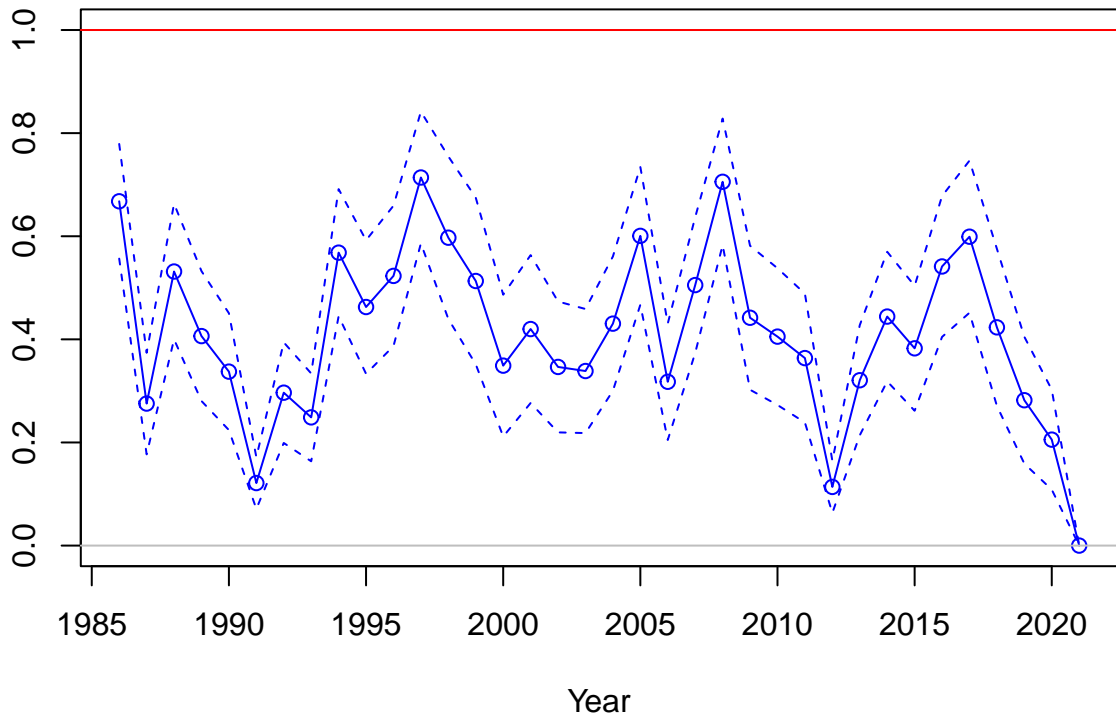


SPR

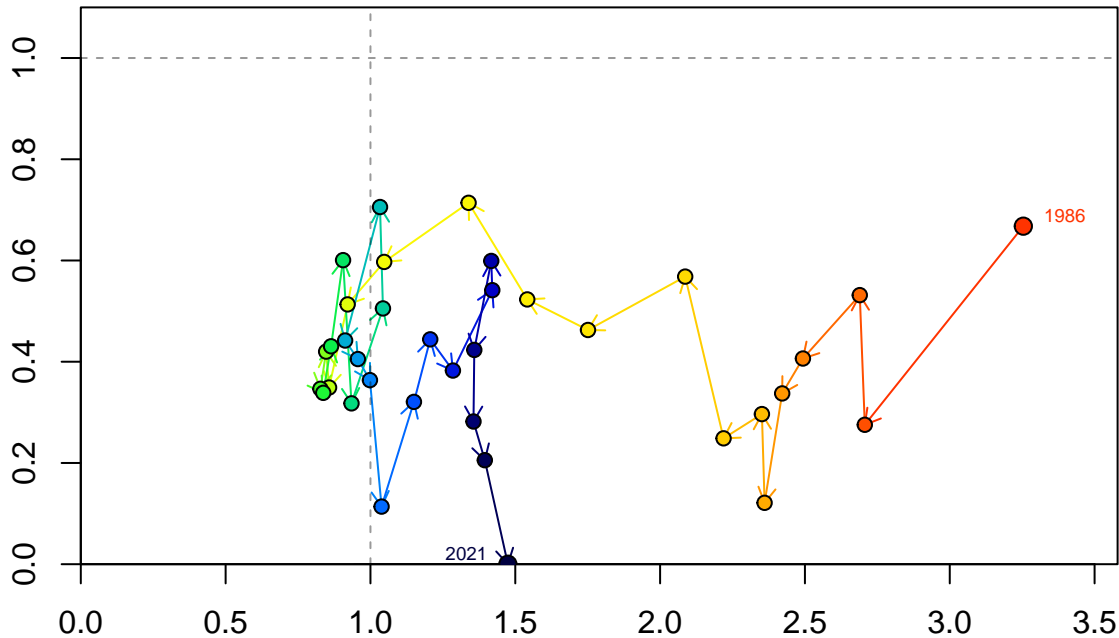




Fishing intensity: 1-SPR

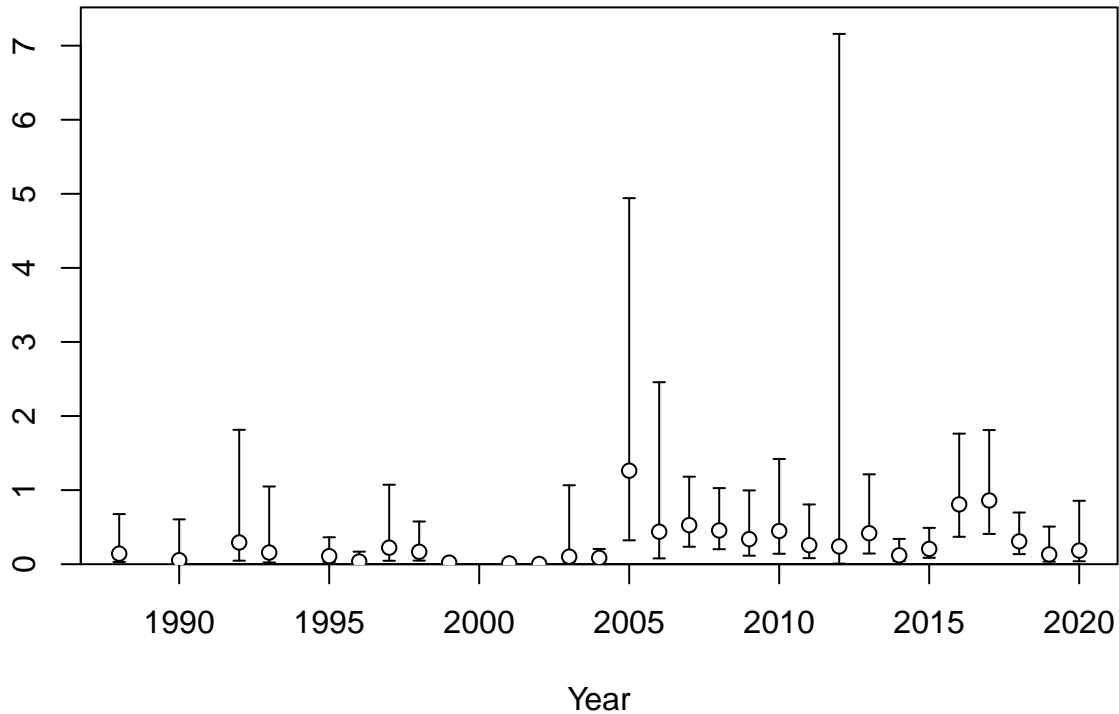


Fishing intensity: 1-SPR

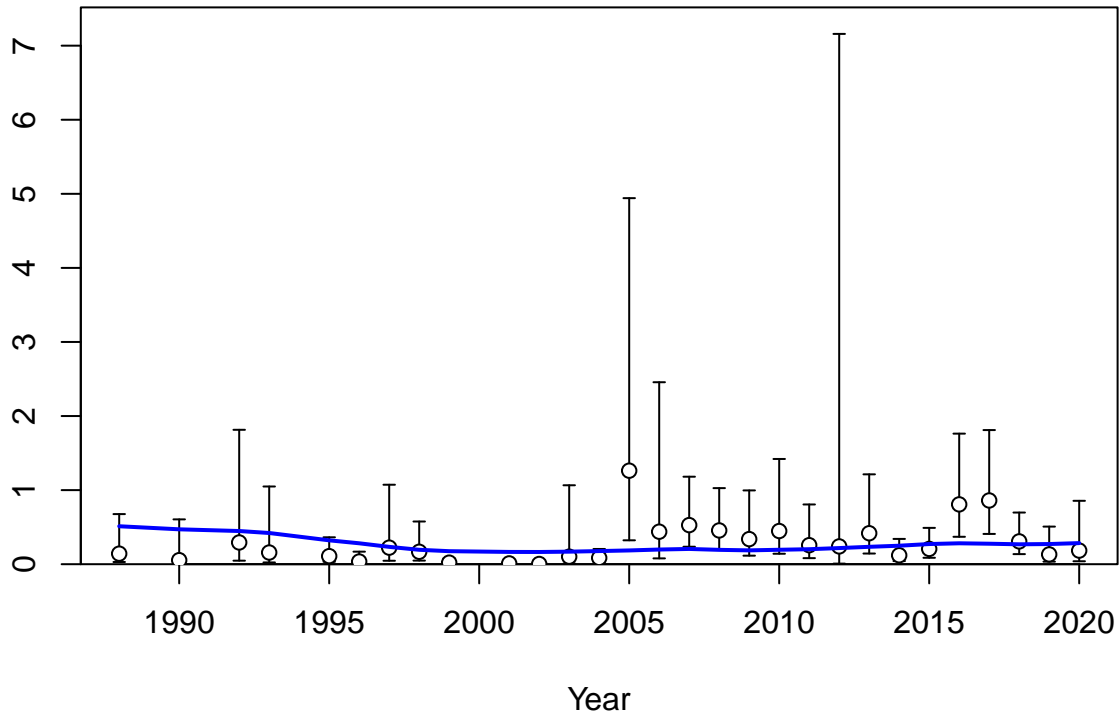


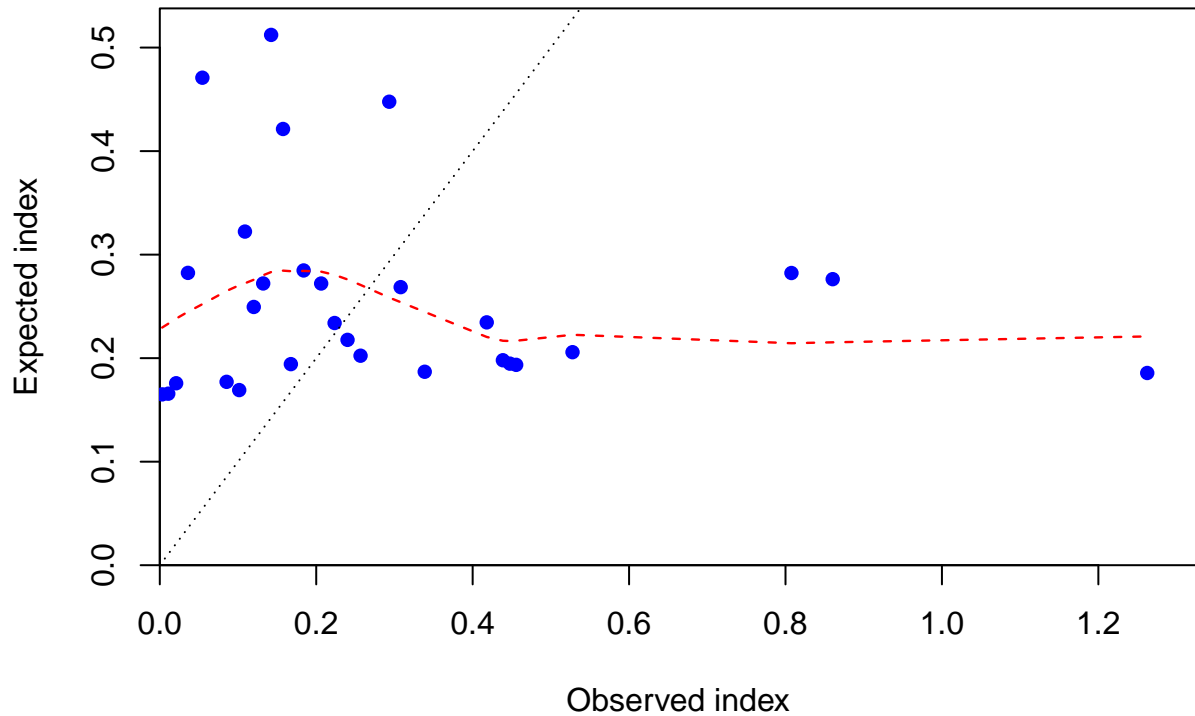
Relative spawning output:  $B/B_{MSY}$

Index

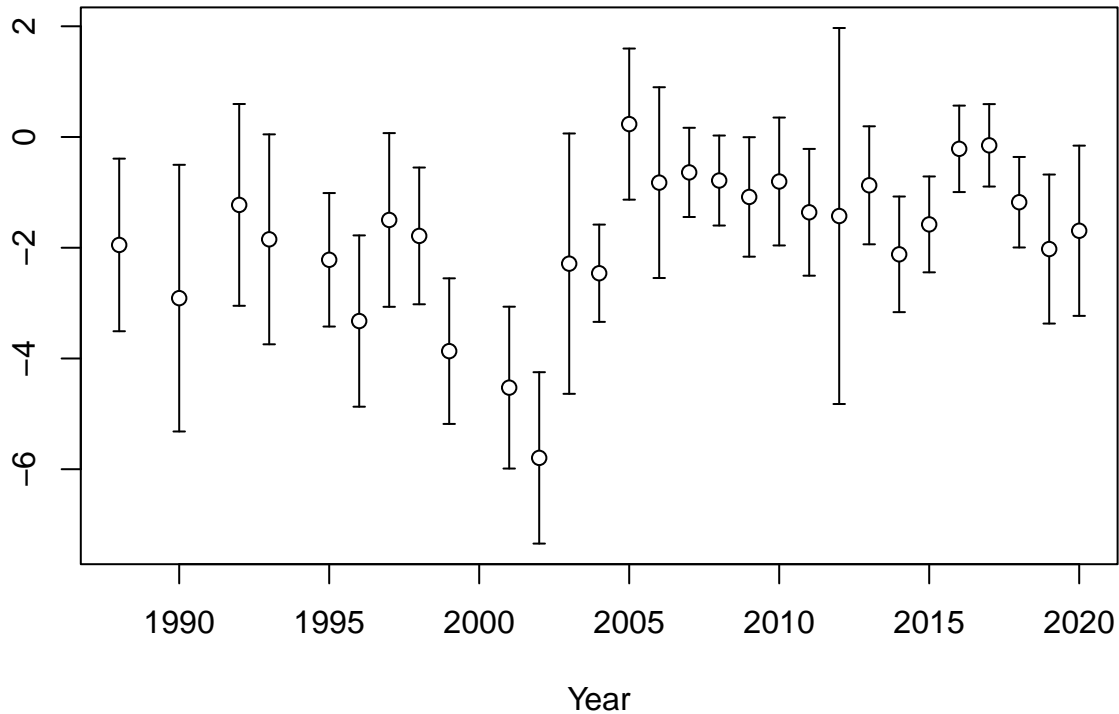


Index



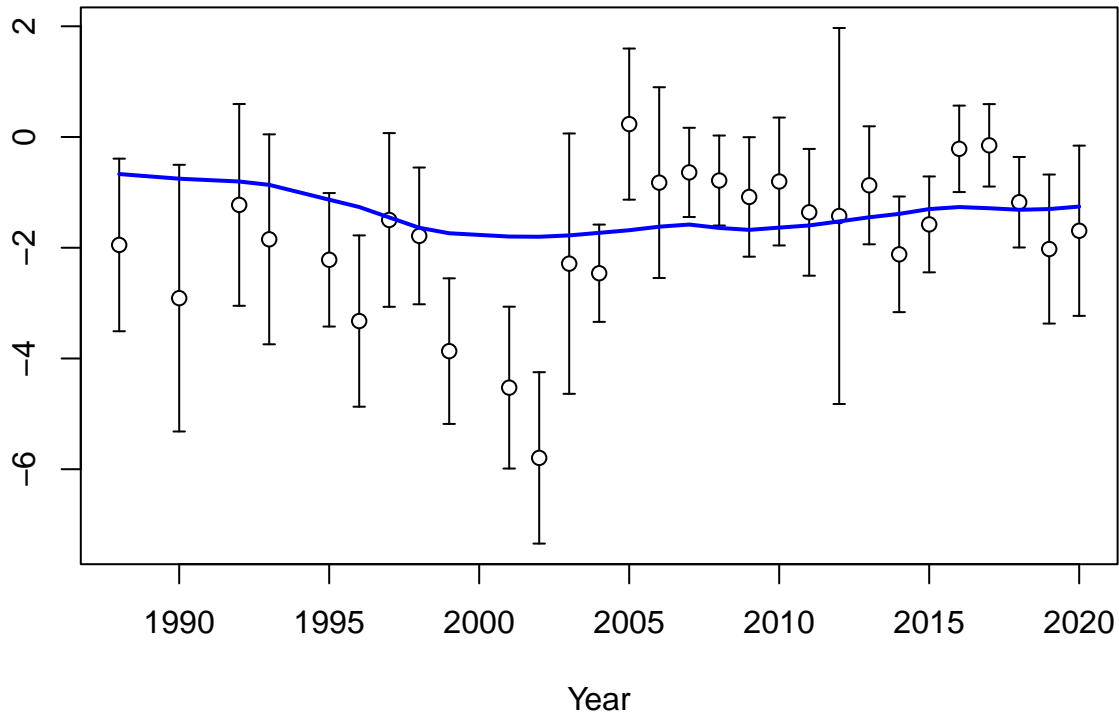


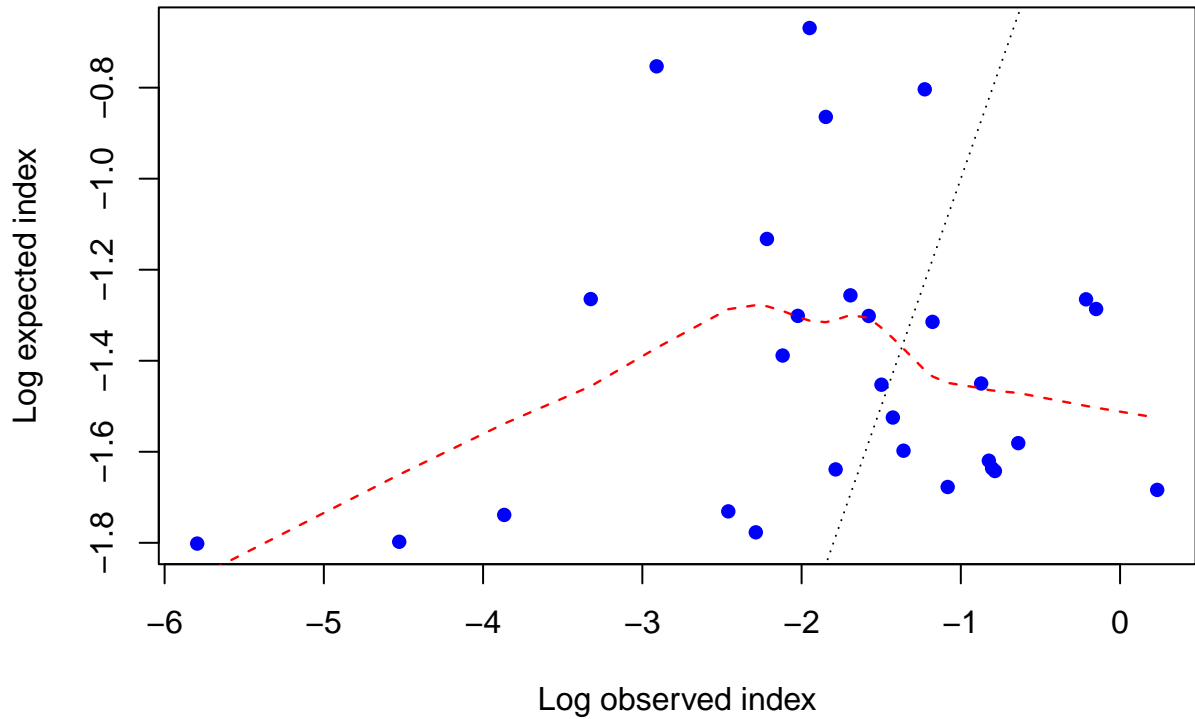
Log index

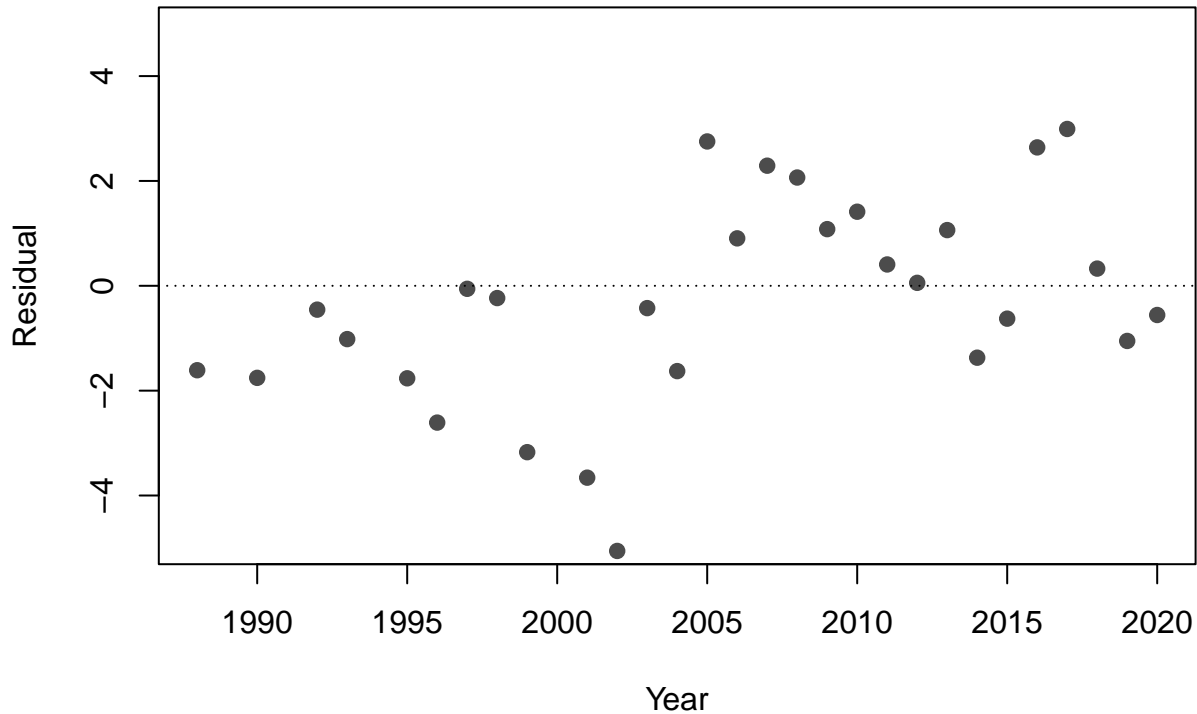




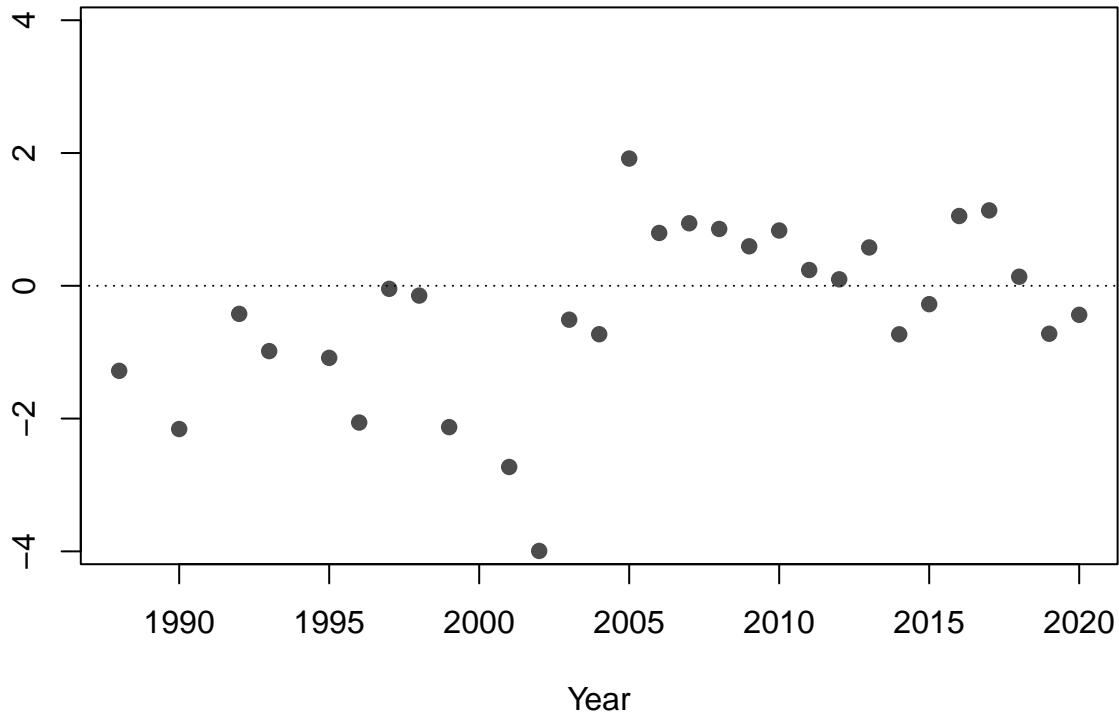
Log index

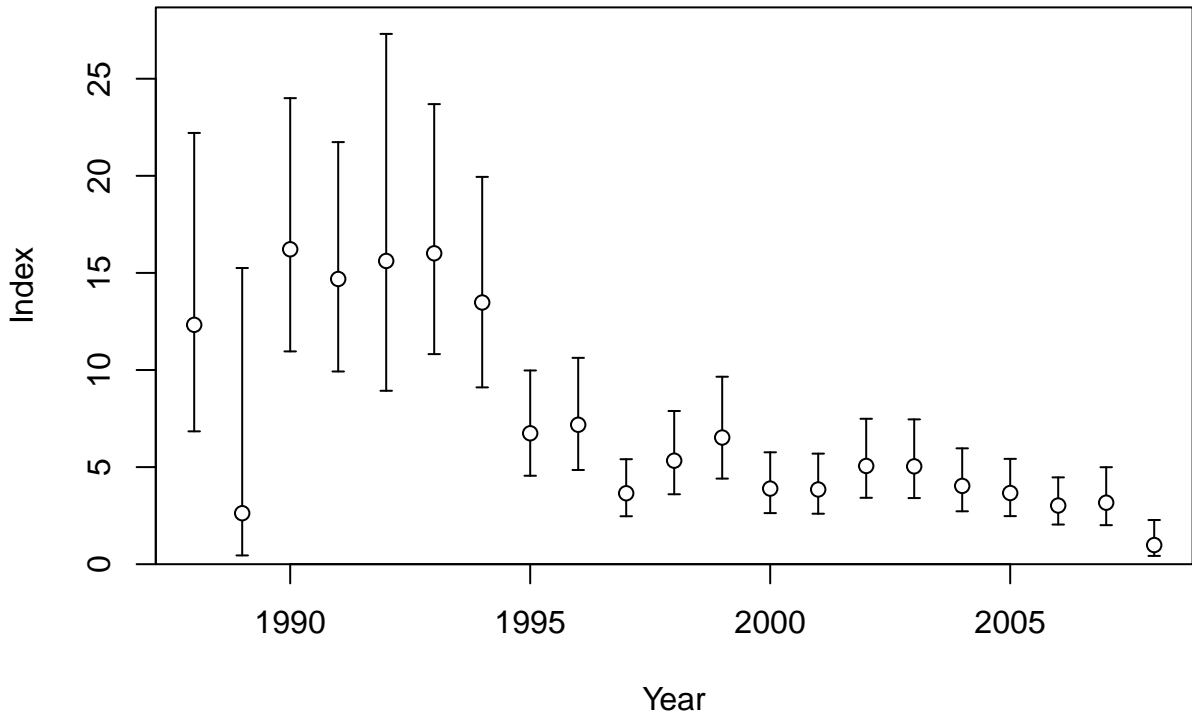


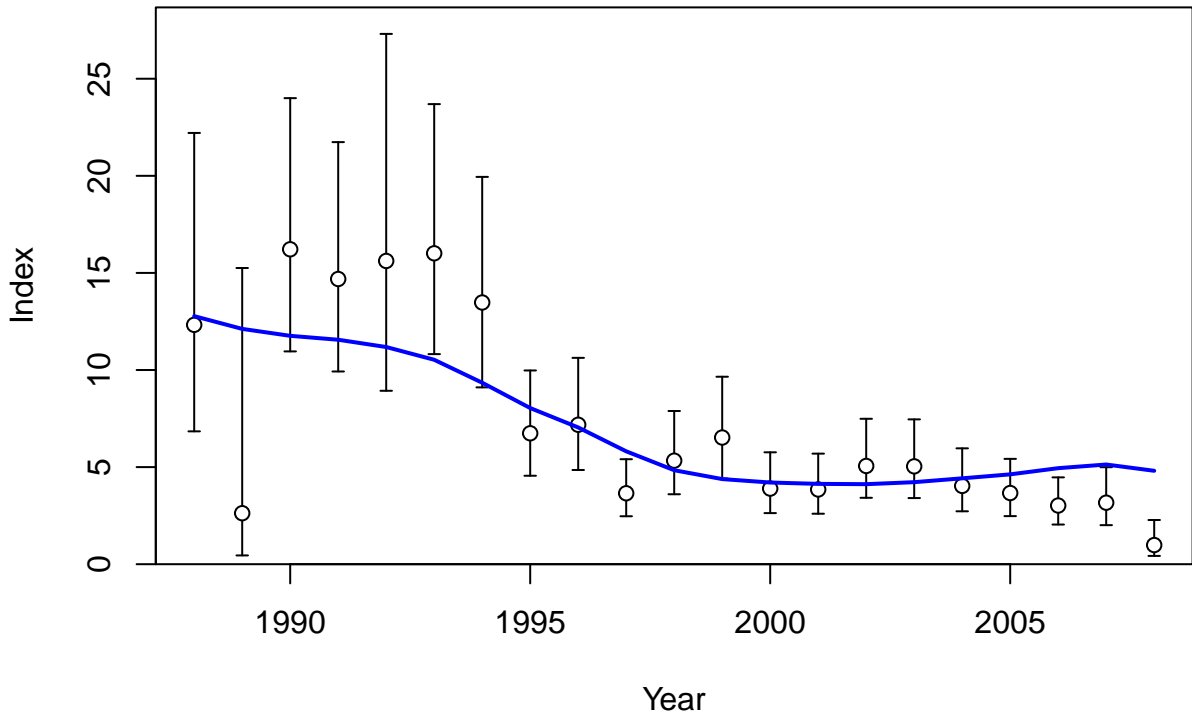


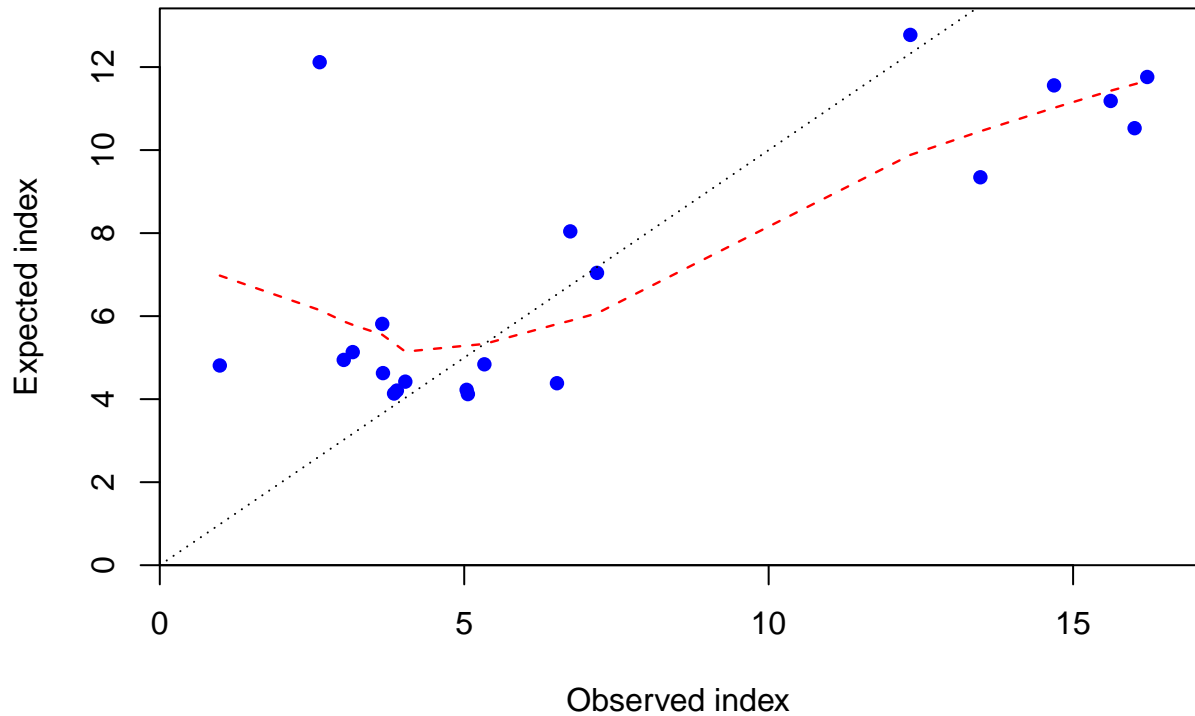


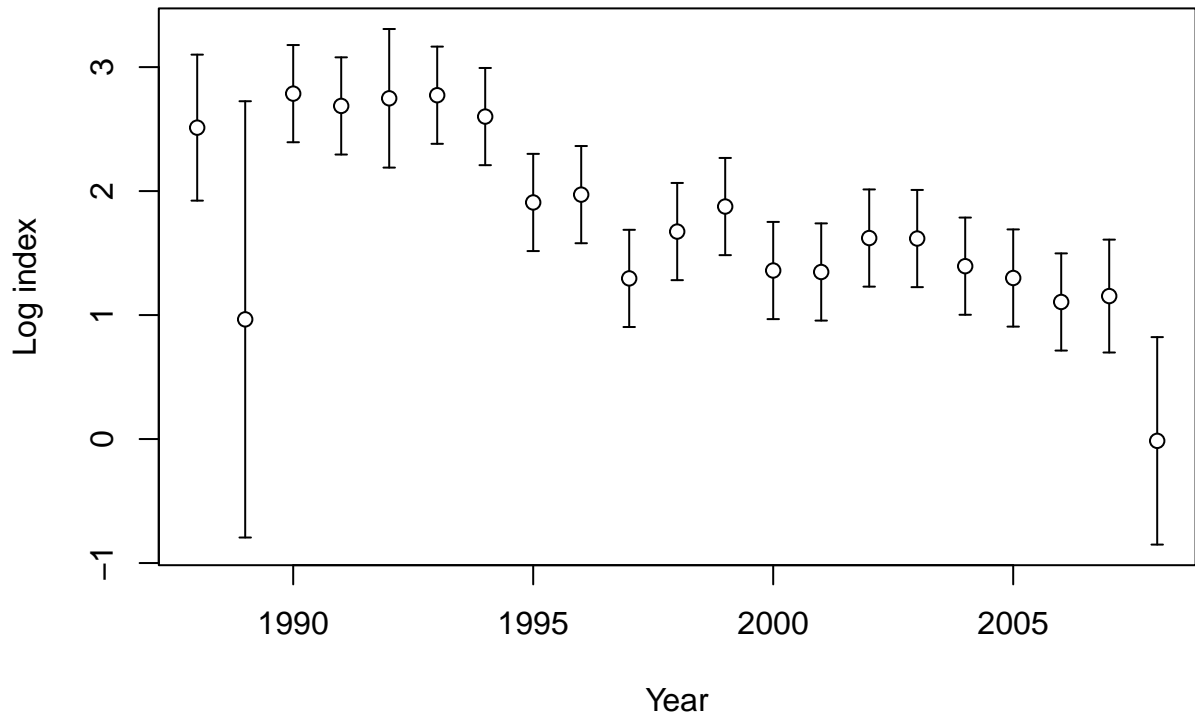
Deviation



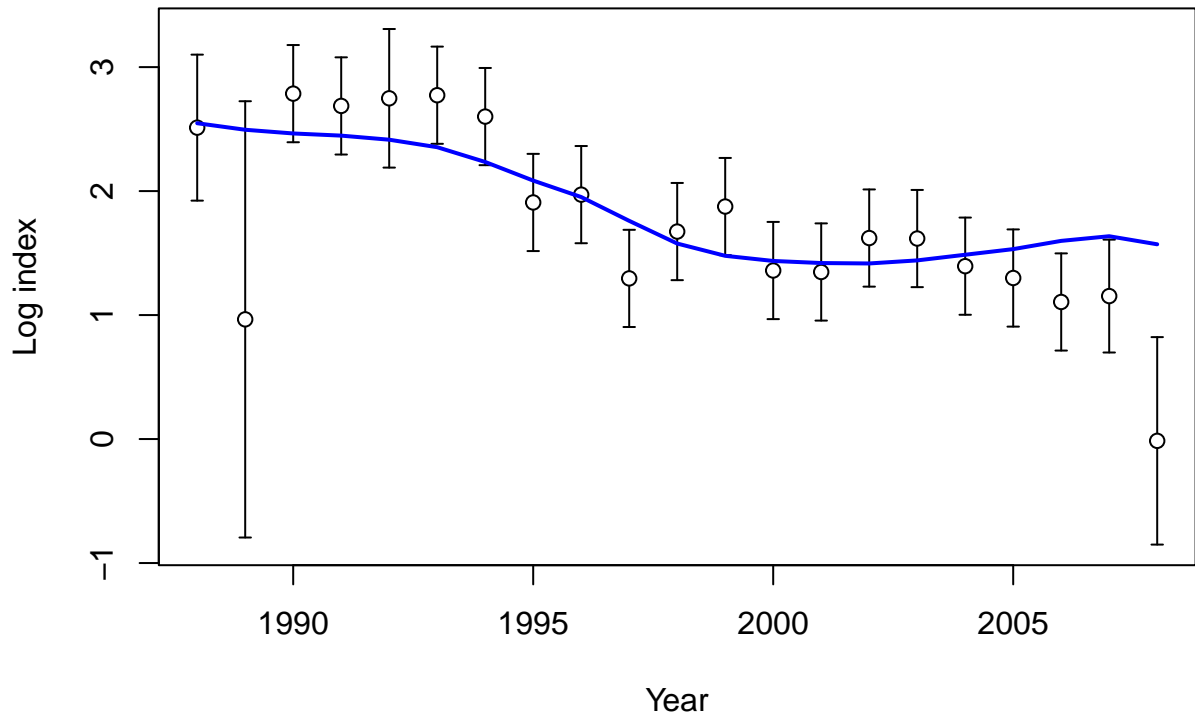


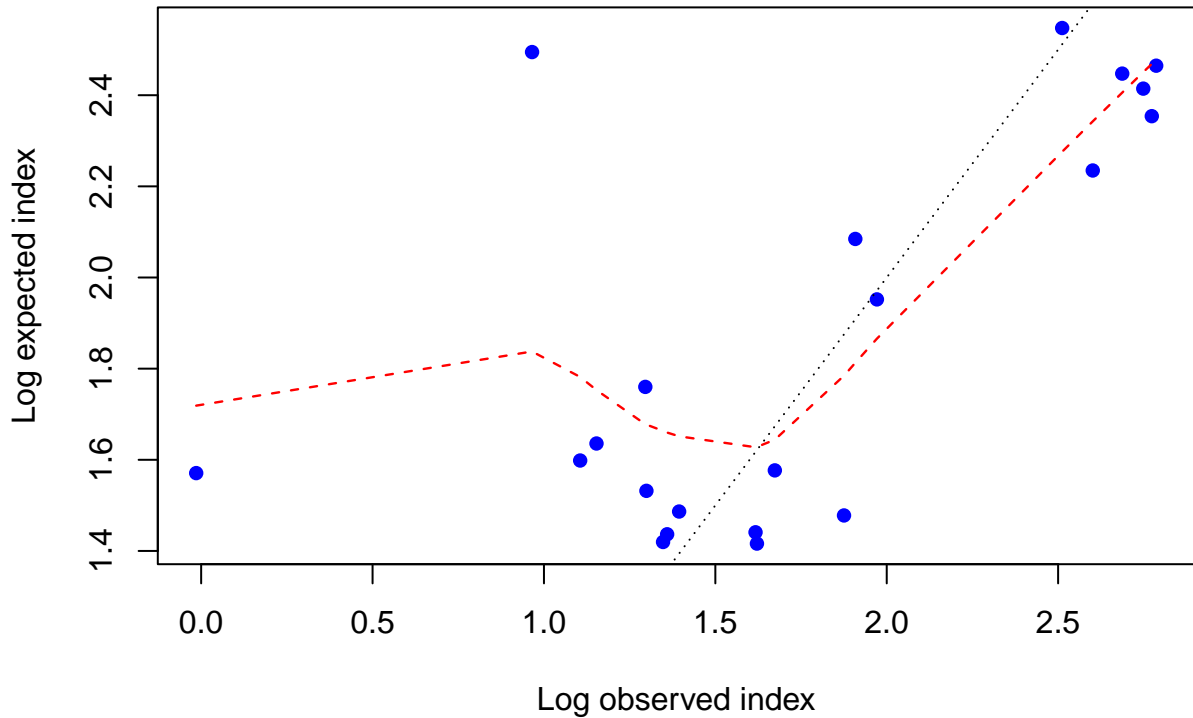


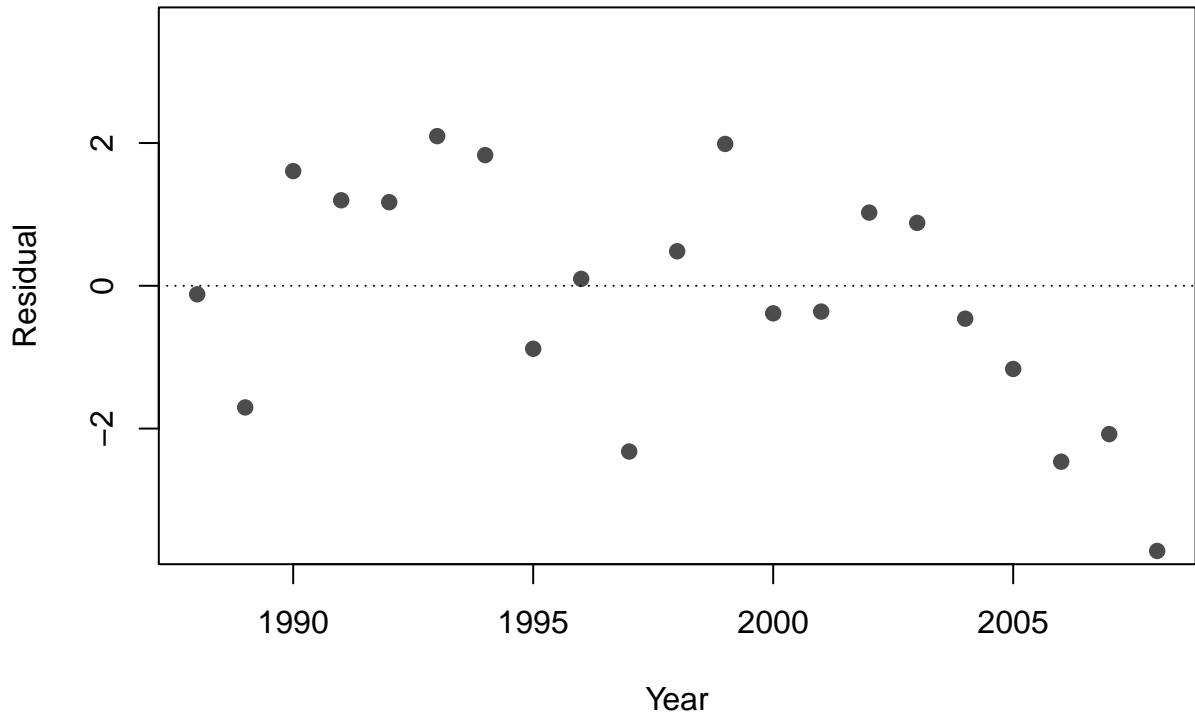


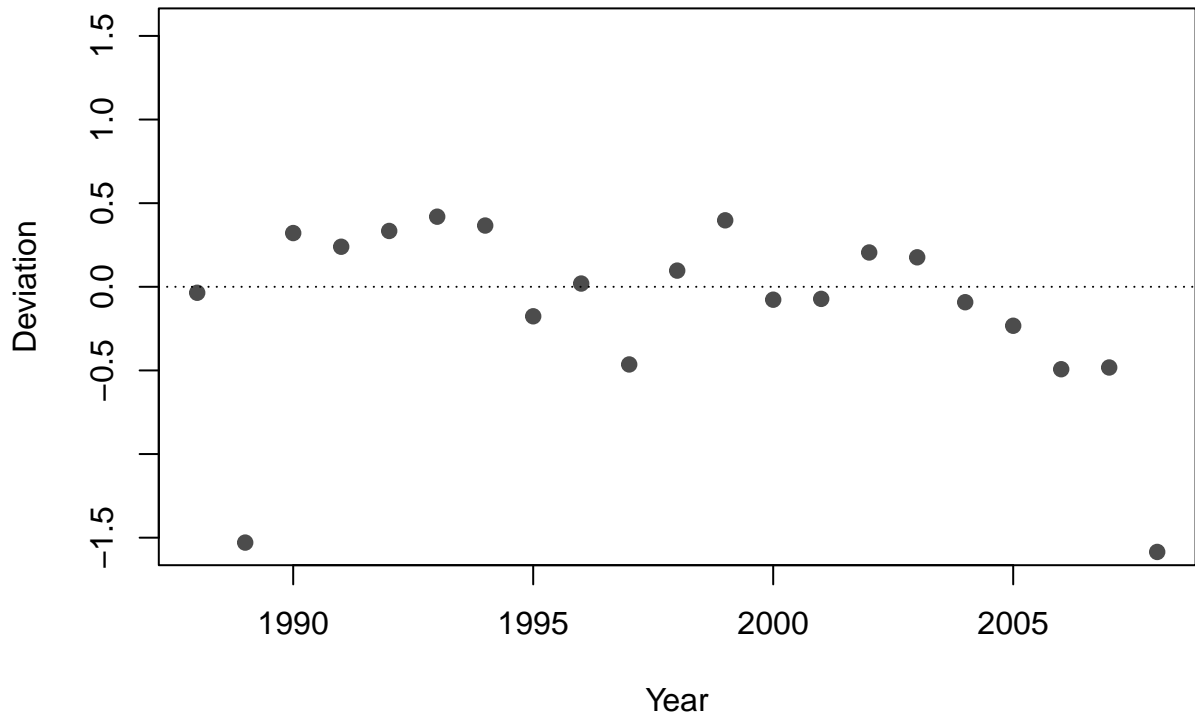


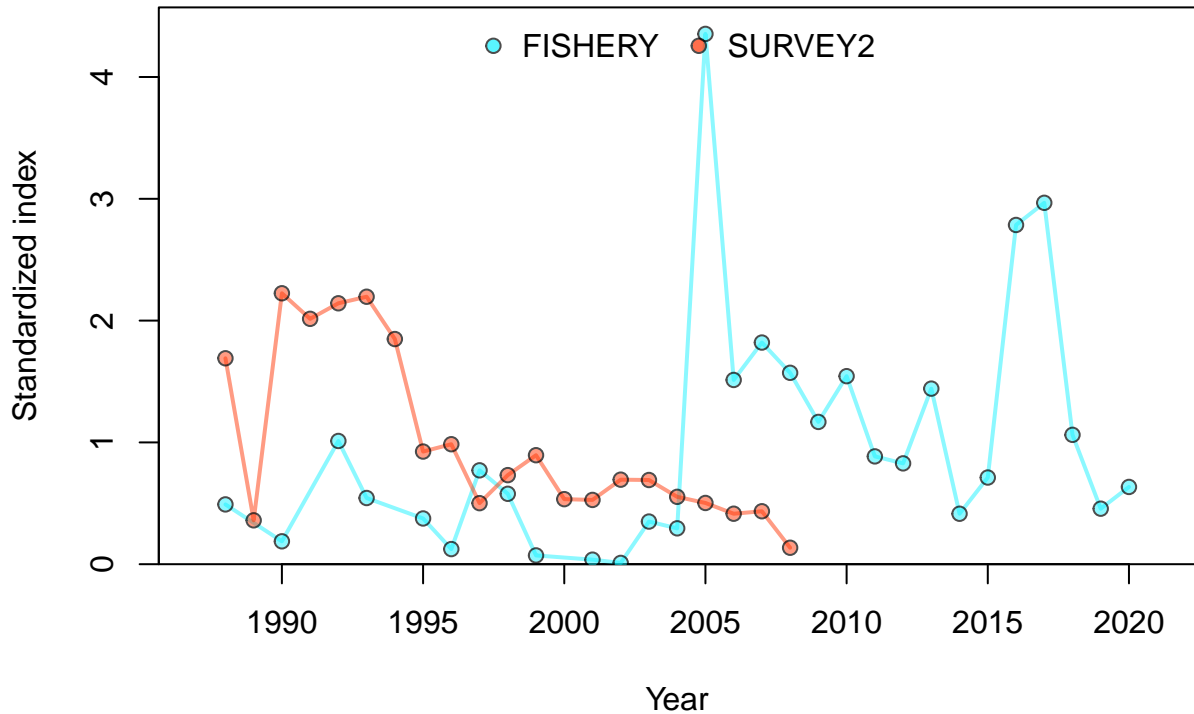


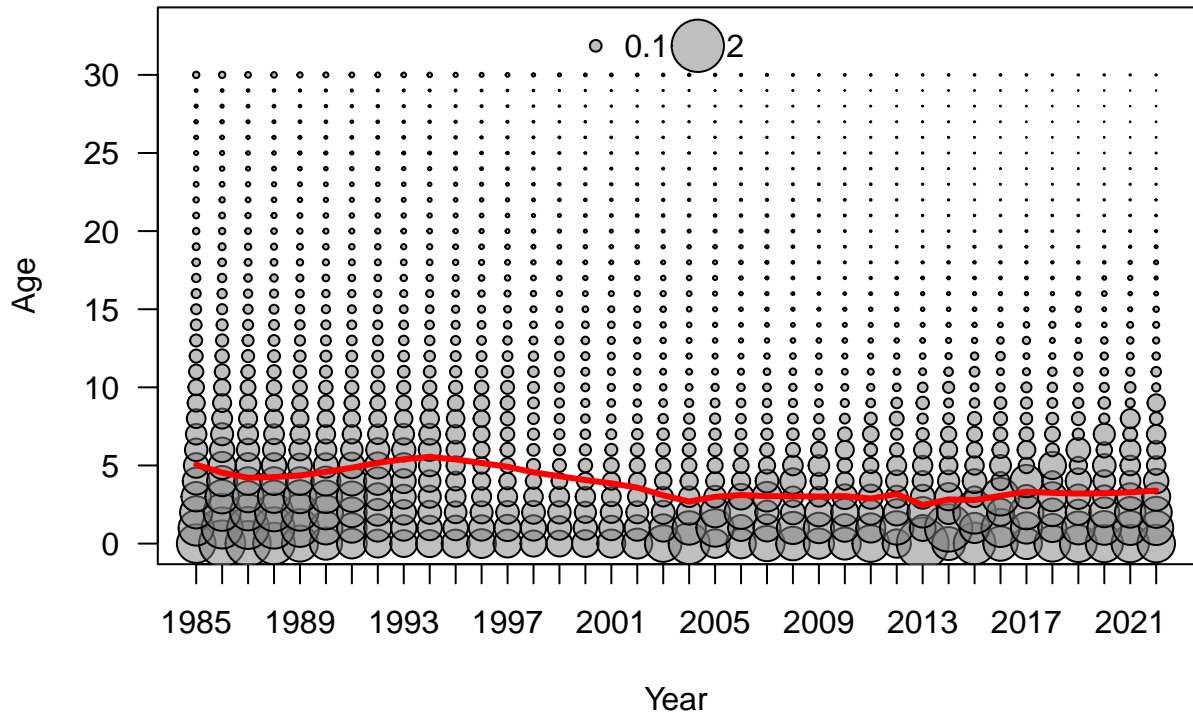


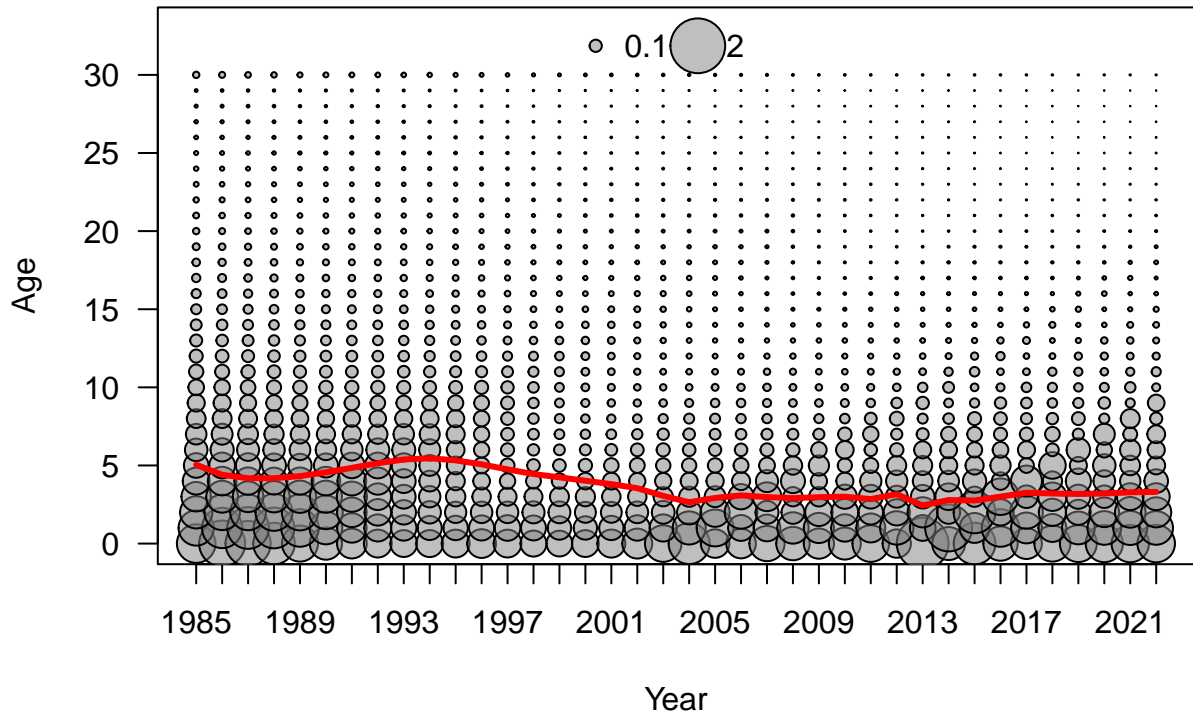


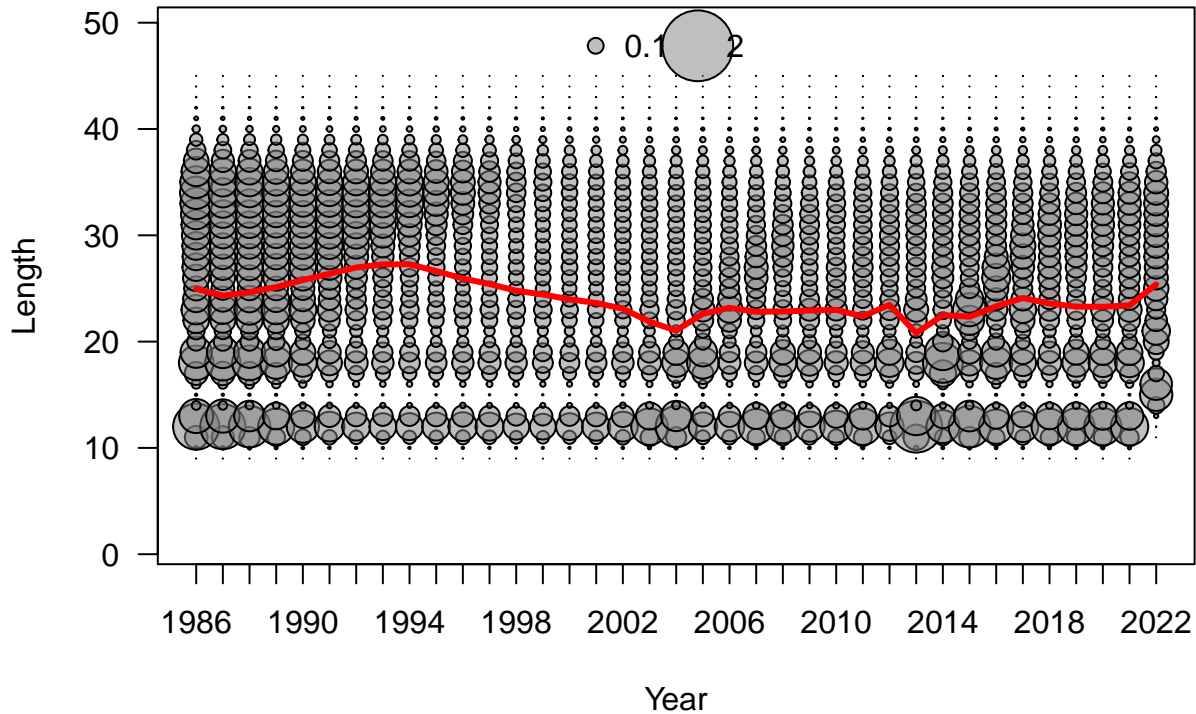




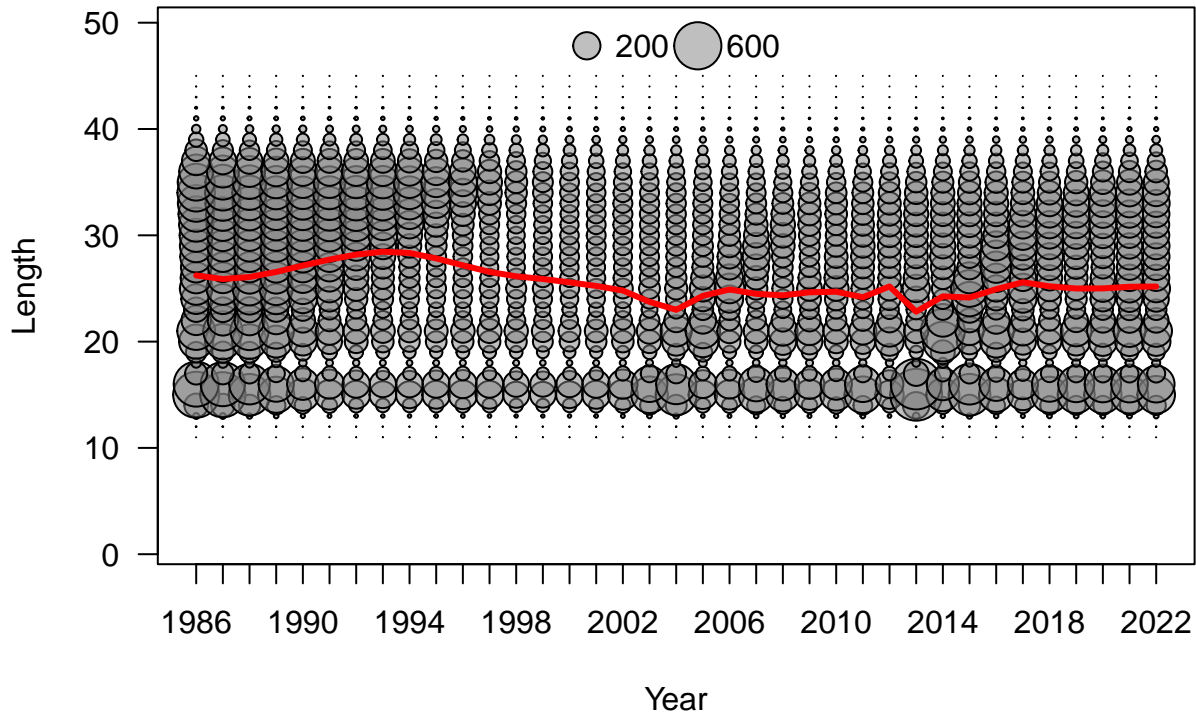


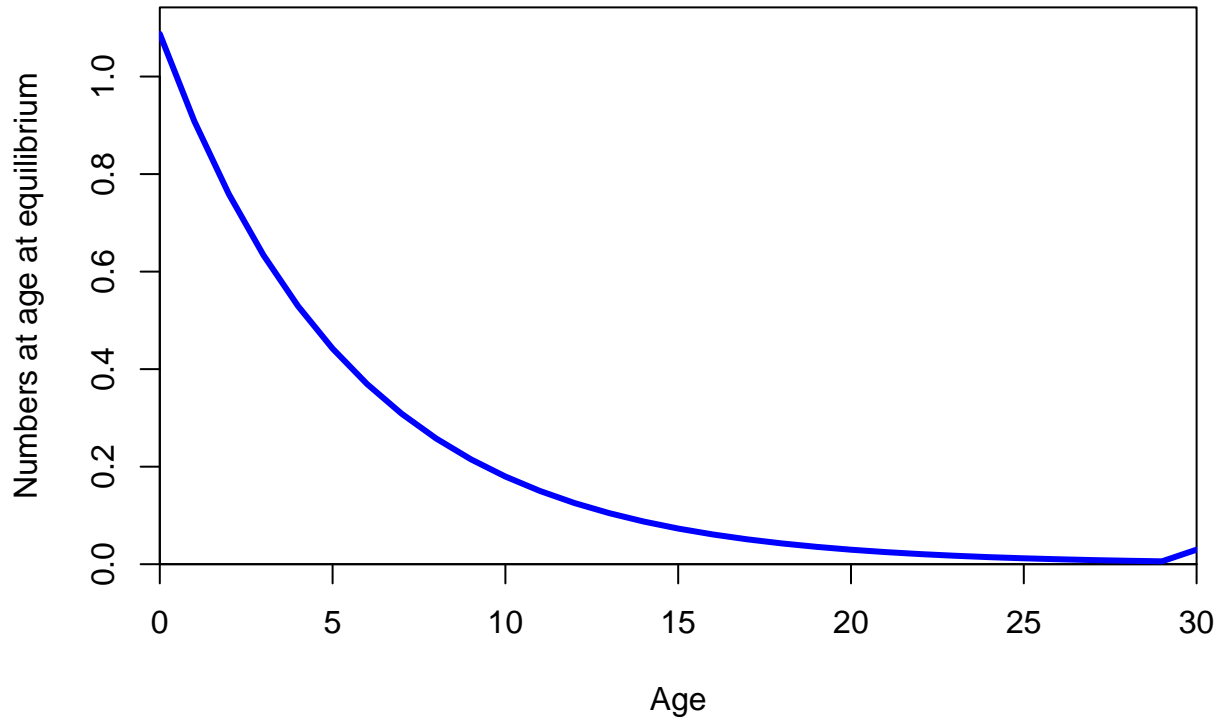


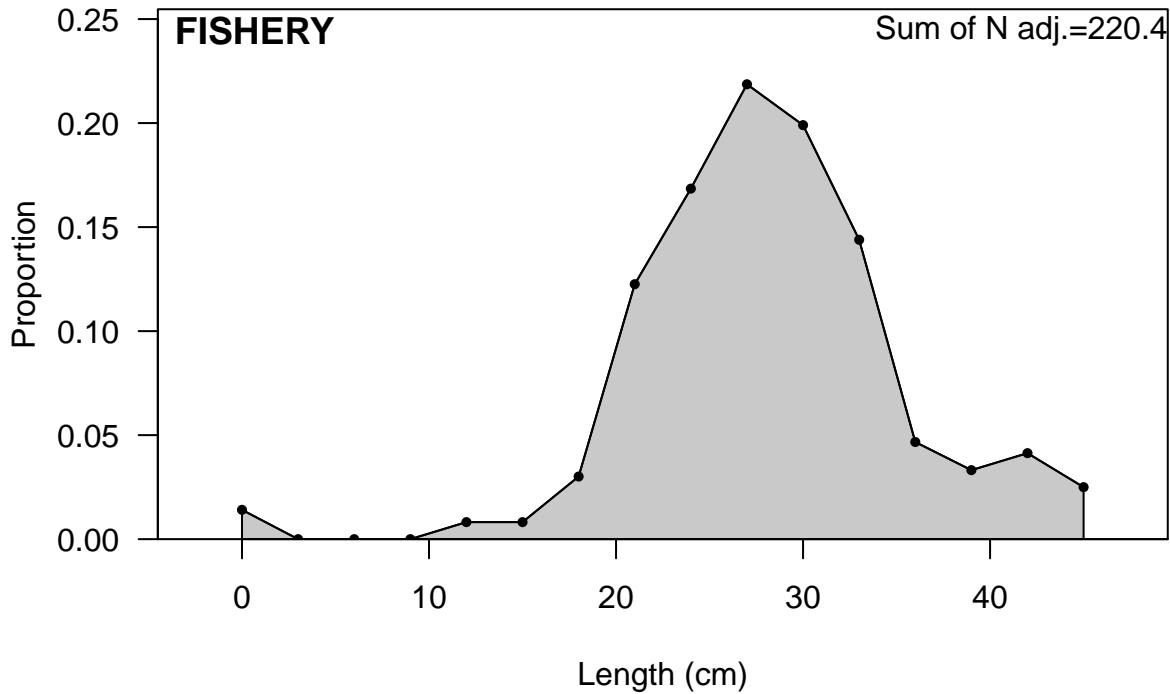


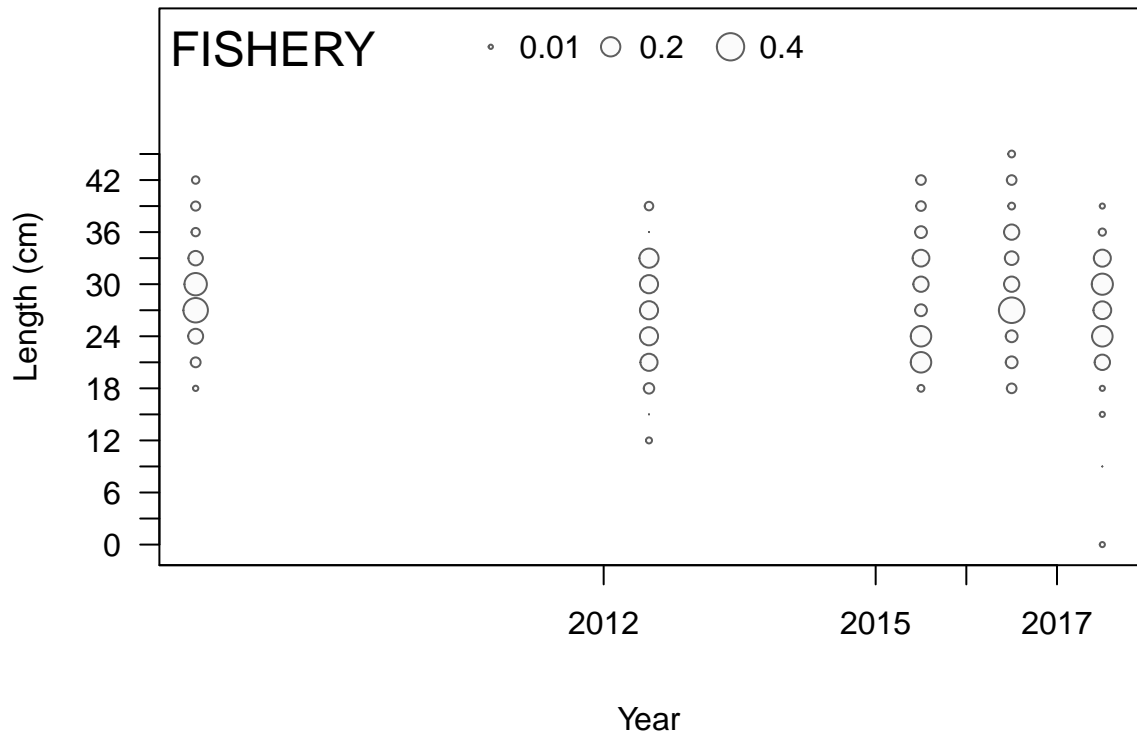




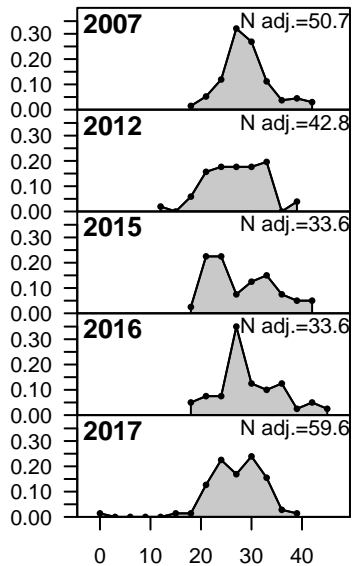




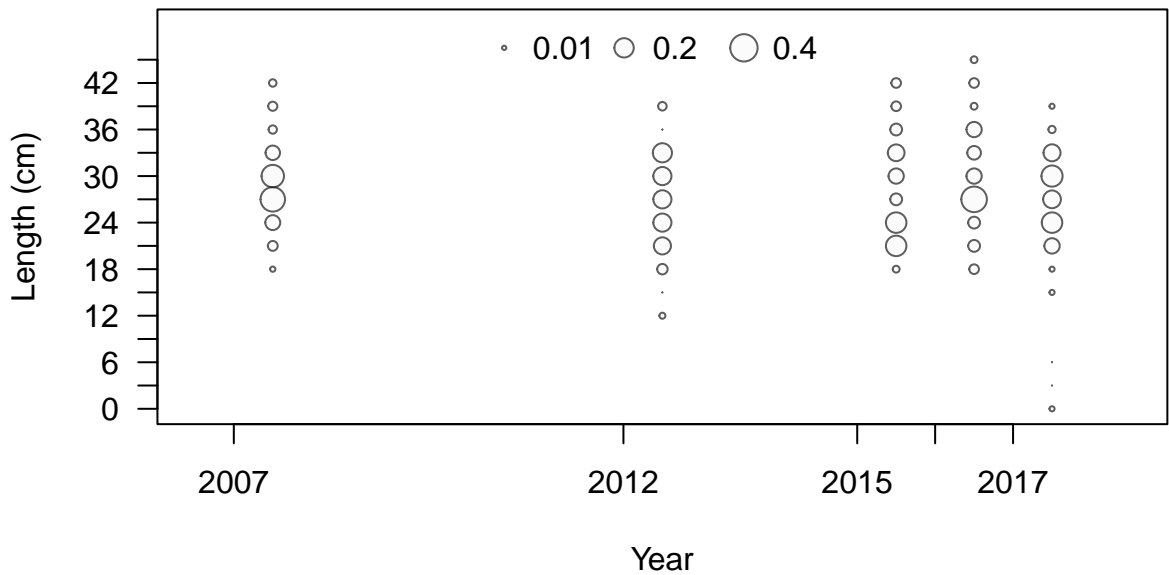




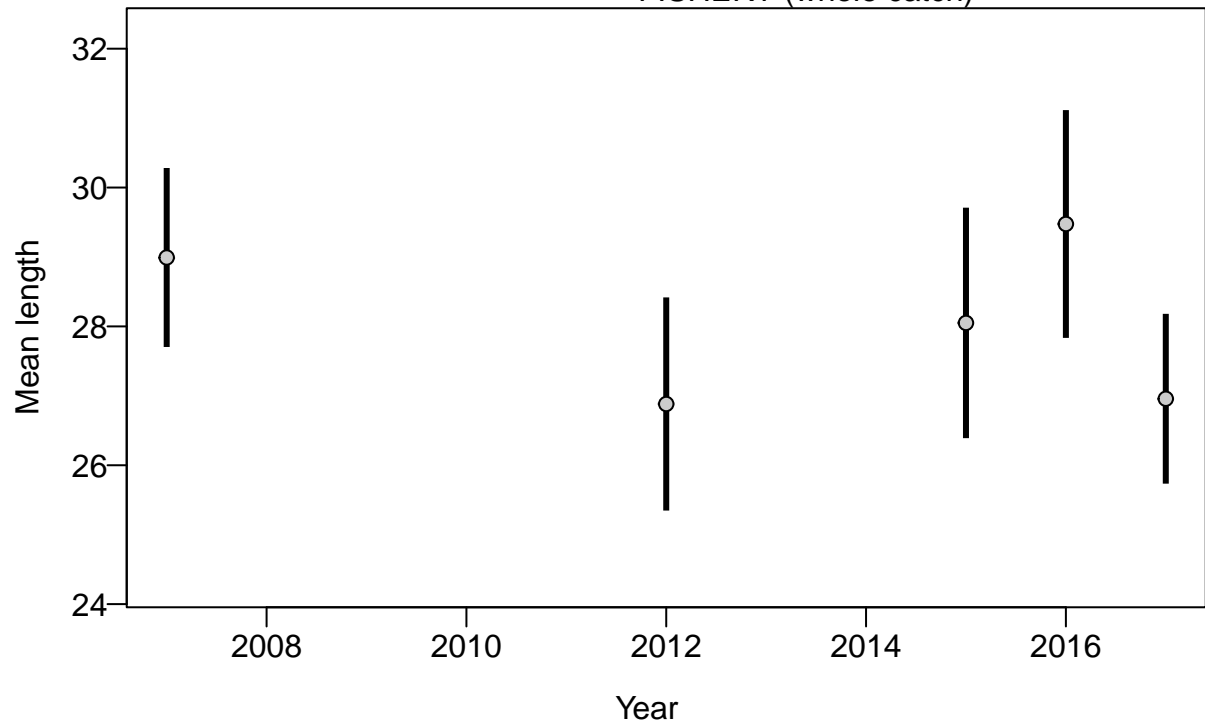
Proportion

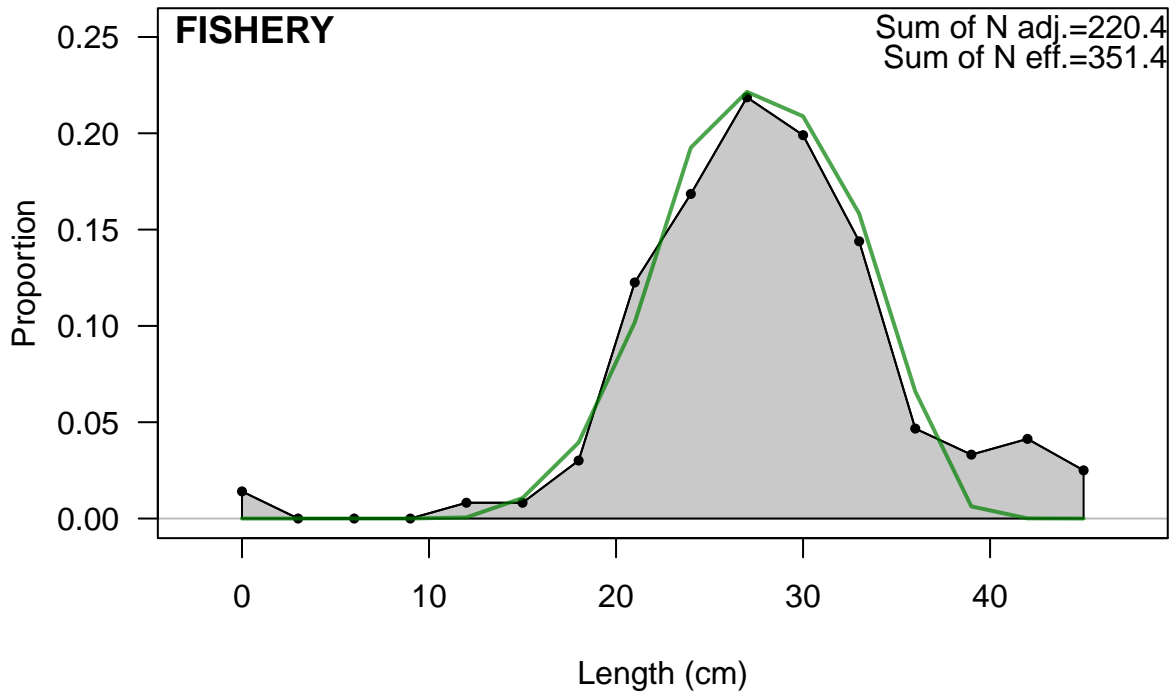


Length (cm)

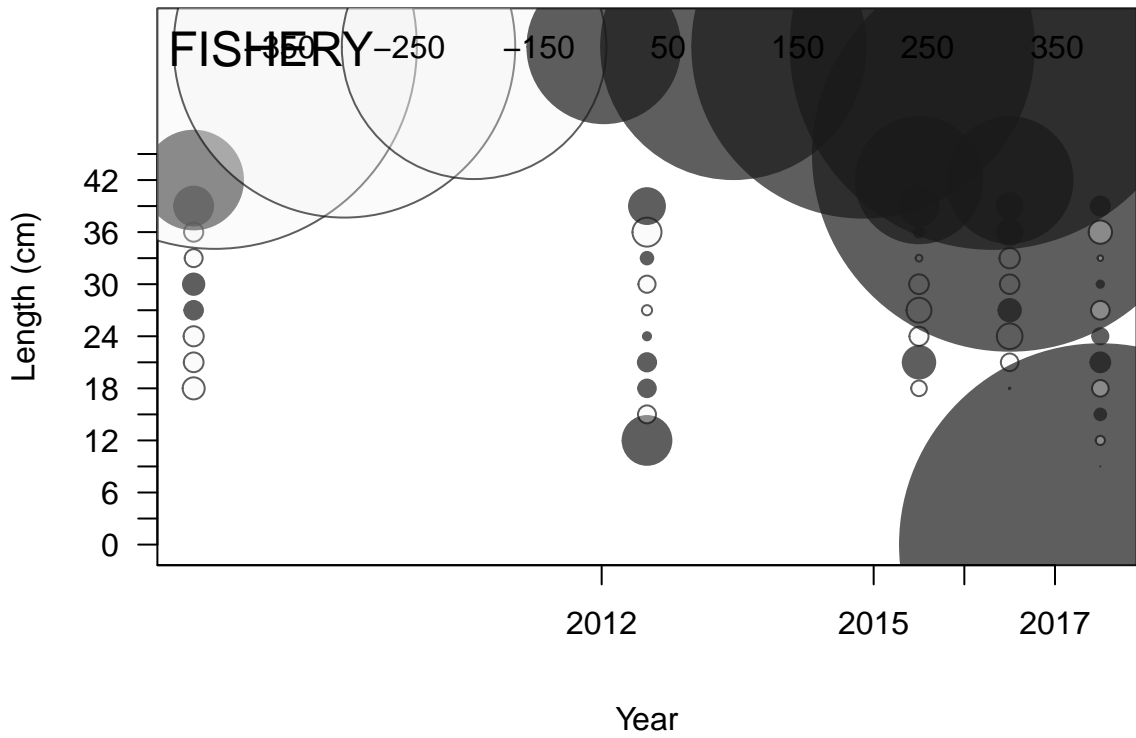


# FISHERY (whole catch)

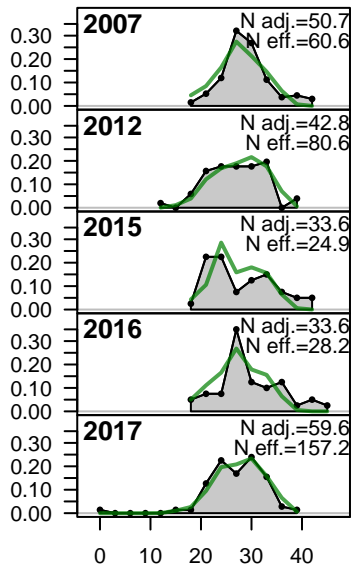




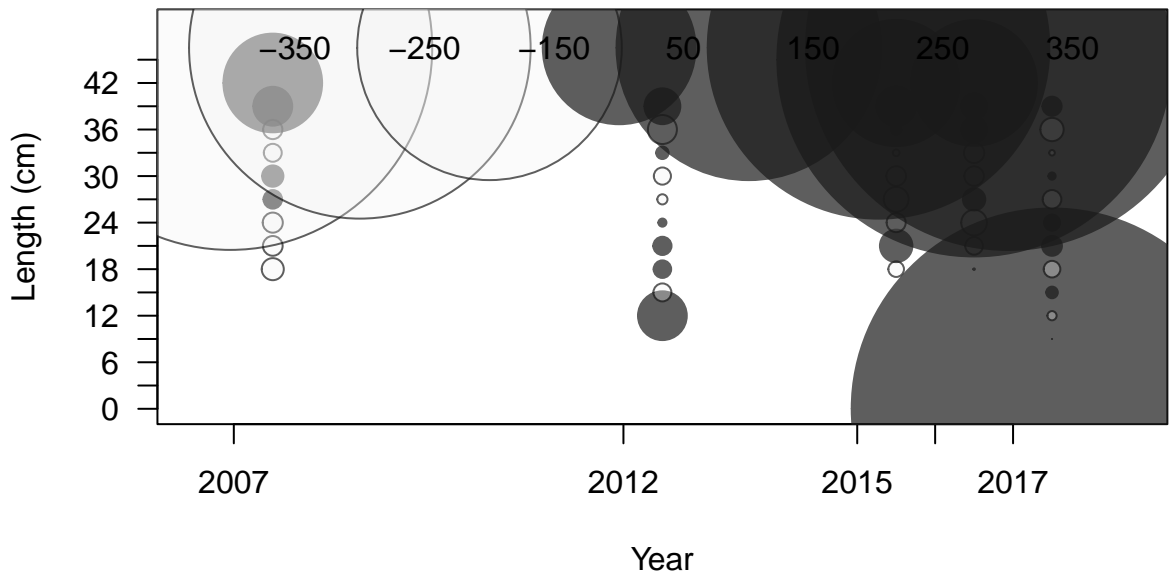




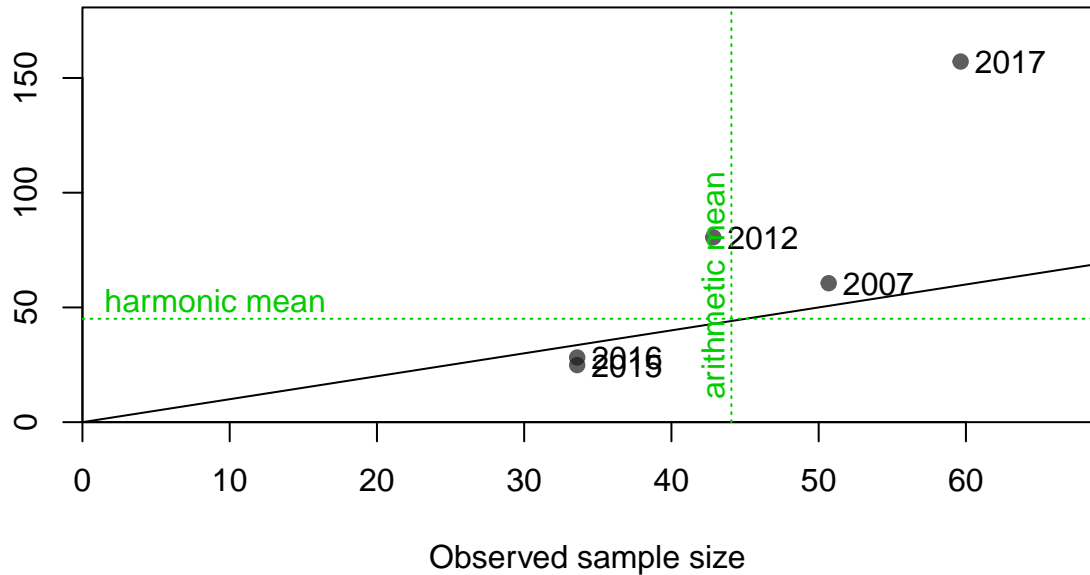
Proportion



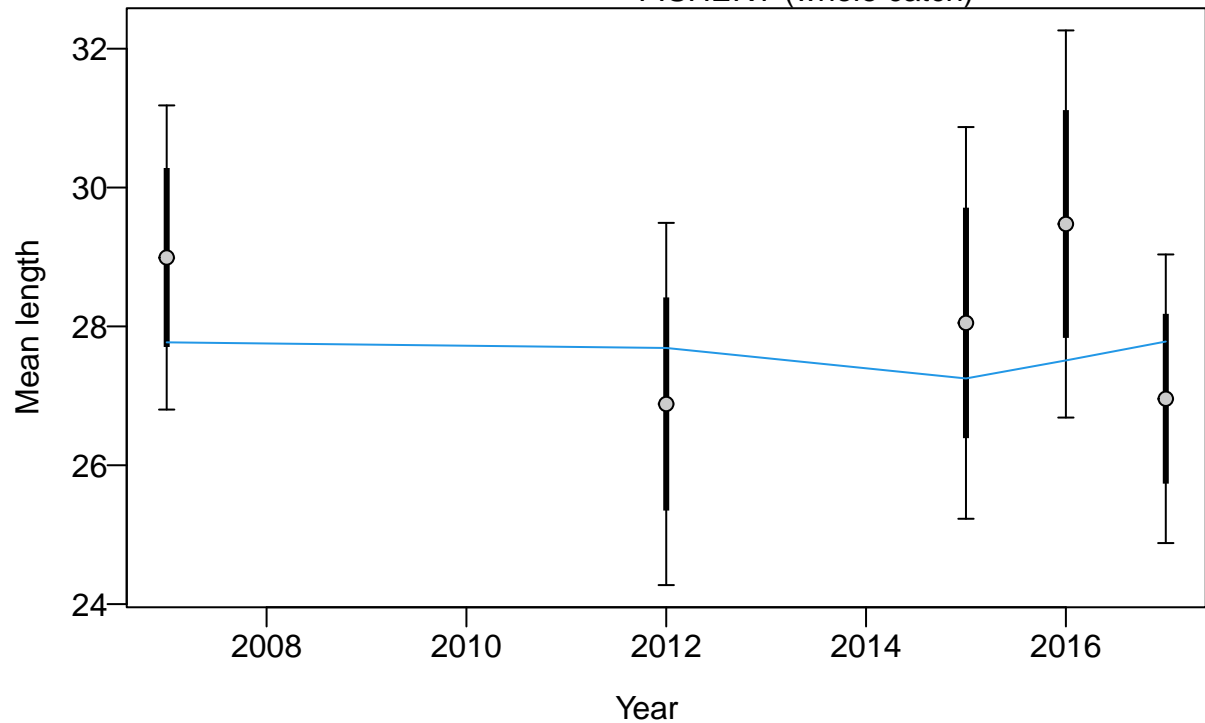
Length (cm)

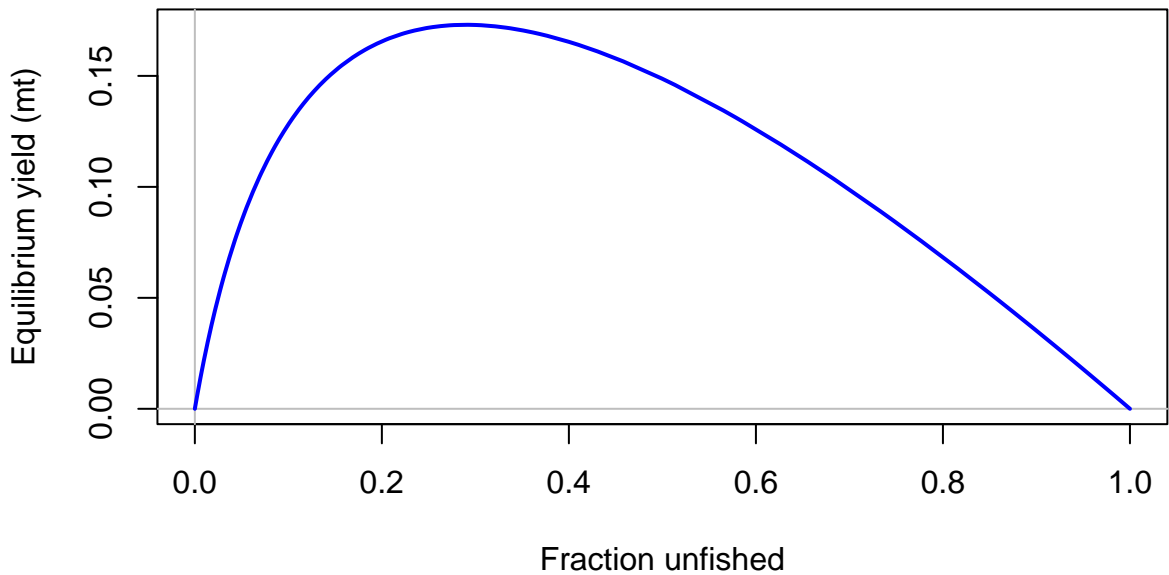


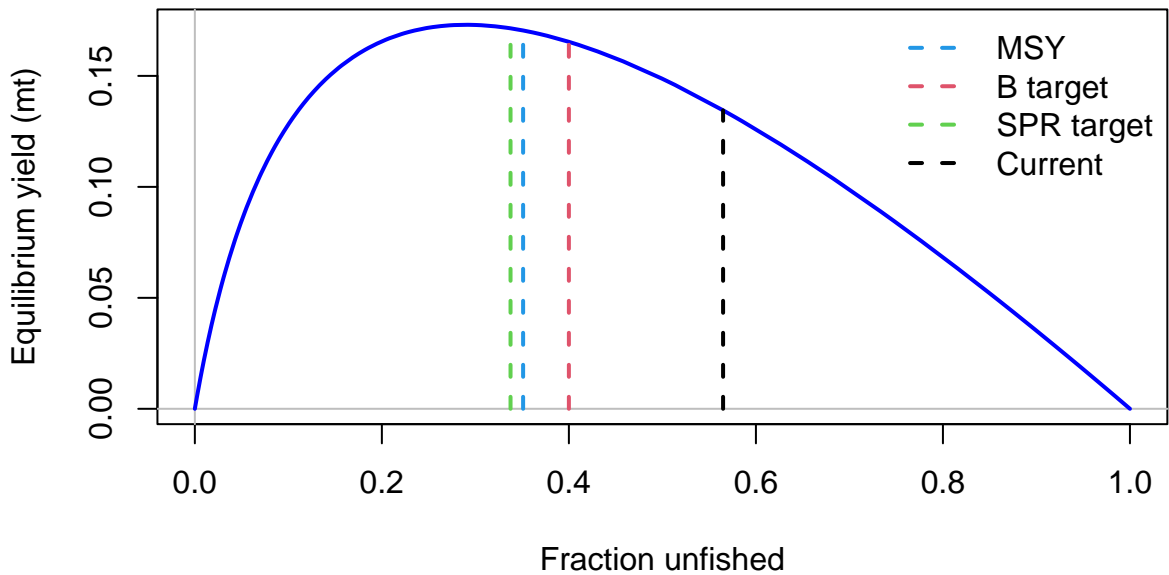
Effective sample size

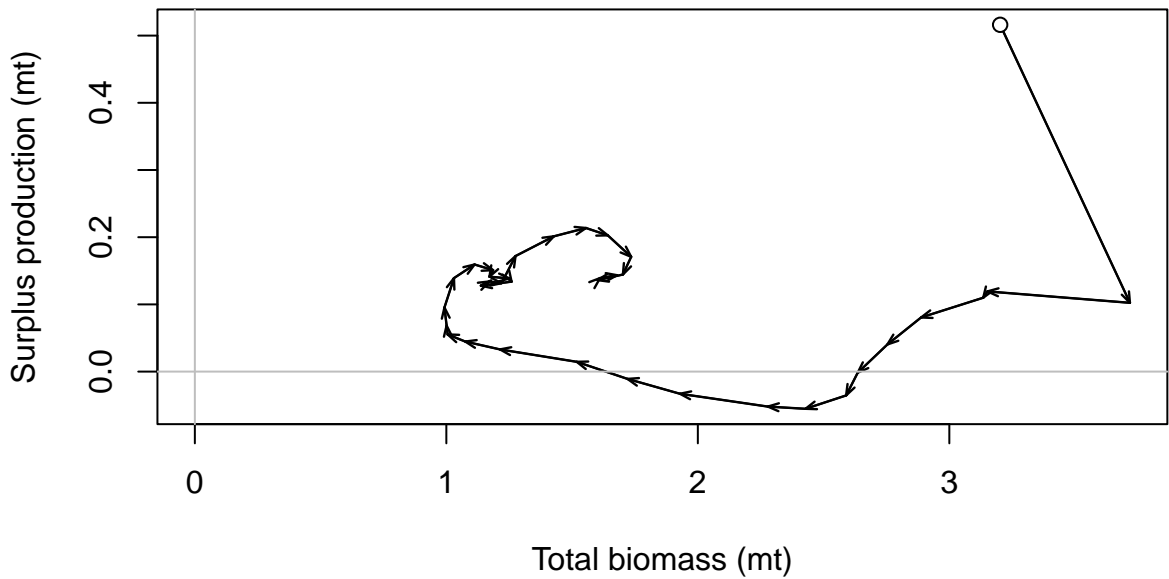


# FISHERY (whole catch)

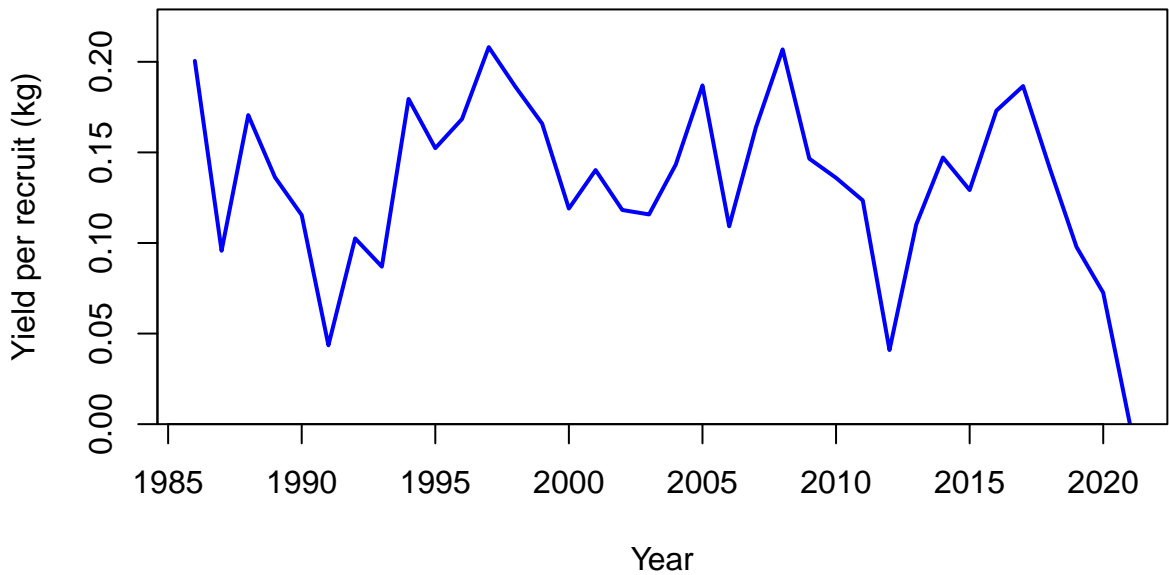


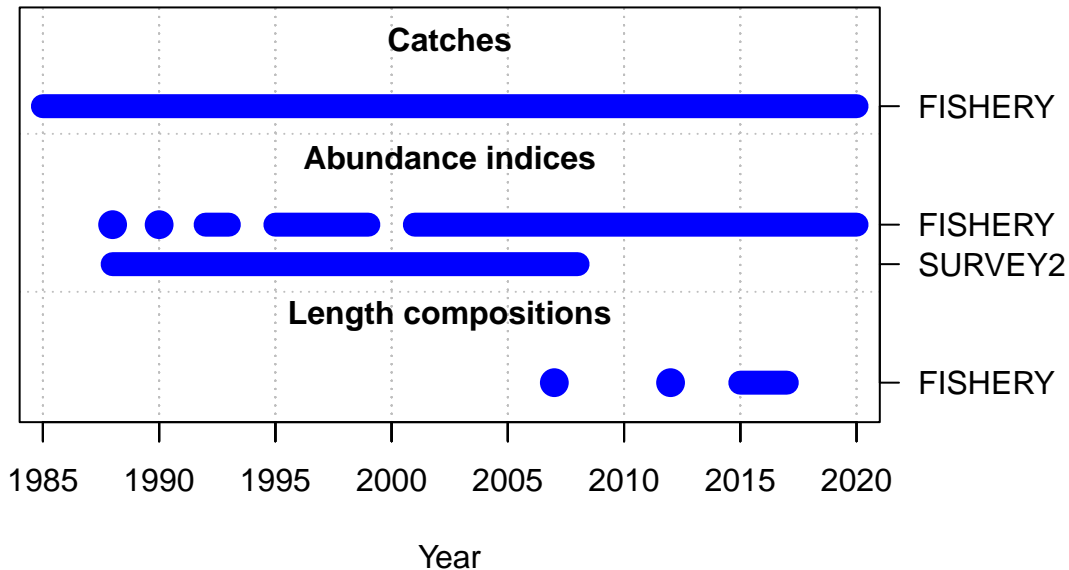


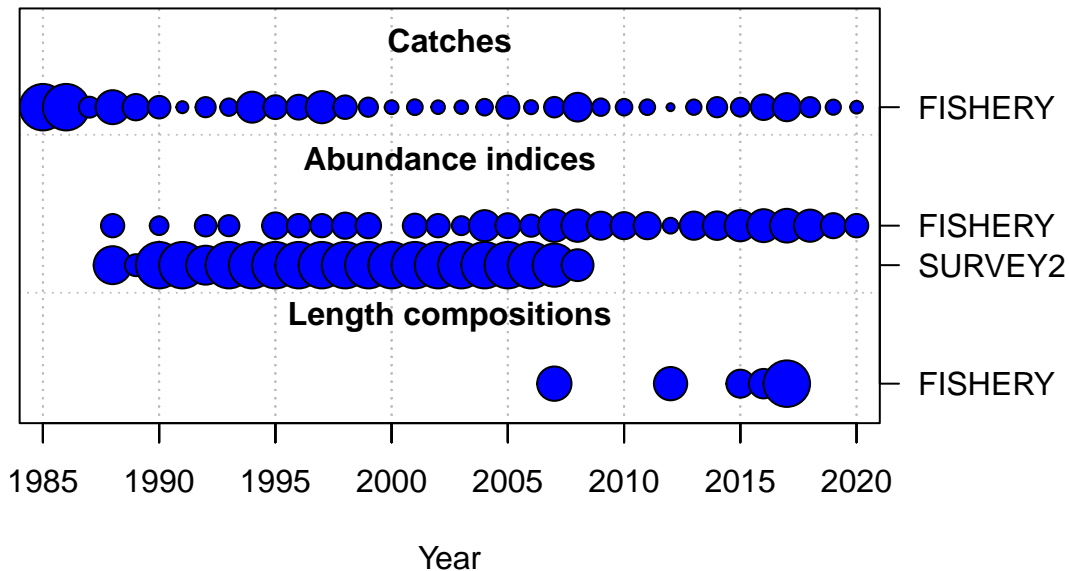










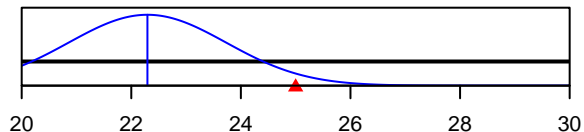


Density

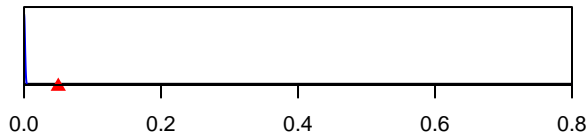
SR\_LN(R0)



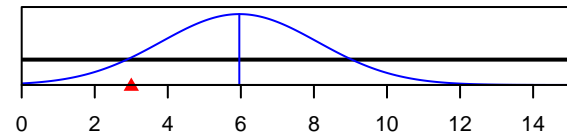
Size\_inflection\_FISHERY(1)



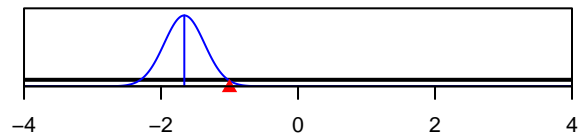
InitF\_seas\_1\_flt\_1FISHERY



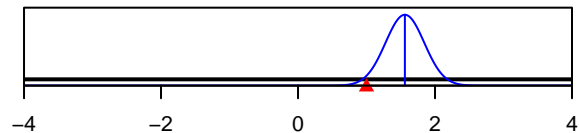
Size\_95%width\_FISHERY(1)



LnQ\_base\_FISHERY(1)



LnQ\_base\_SURVEY2(2)



Parameter value