

Plots created using the 'r4ss' package in R

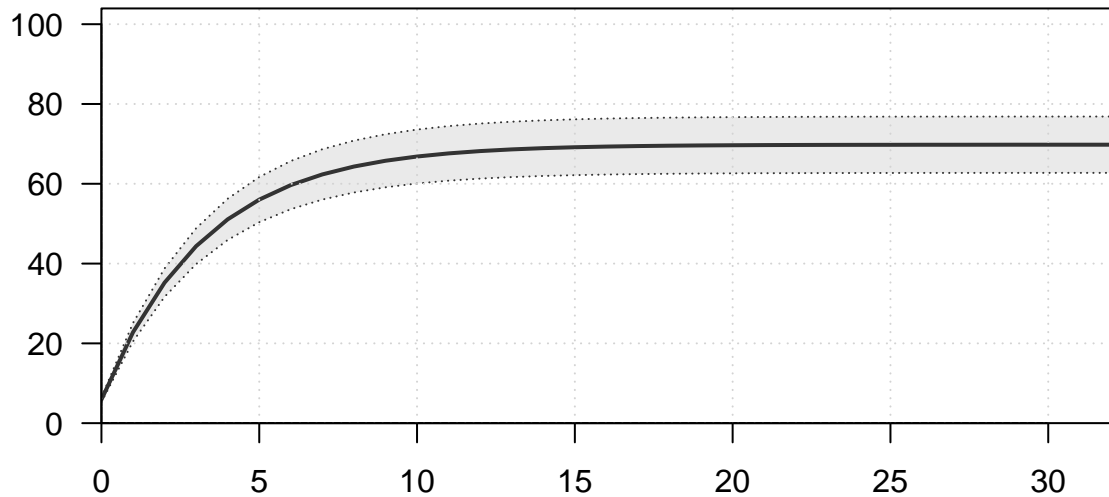
Stock Synthesis version: 3.30.19.0

StartTime: Thu Aug 11 12:20:53 2022

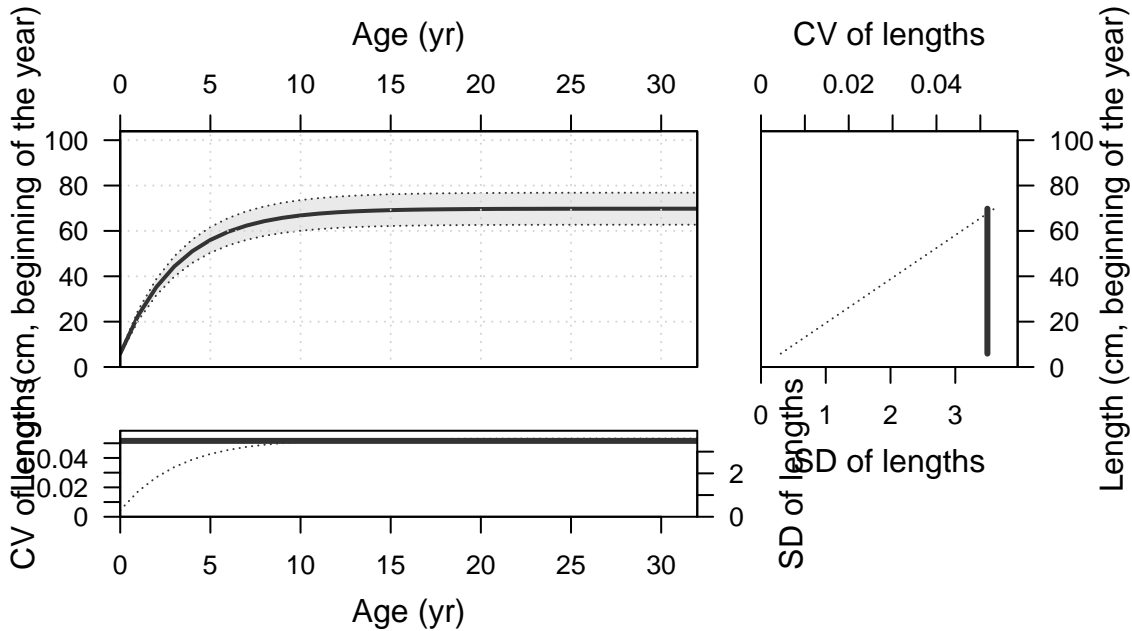
Data\_File: data.ss

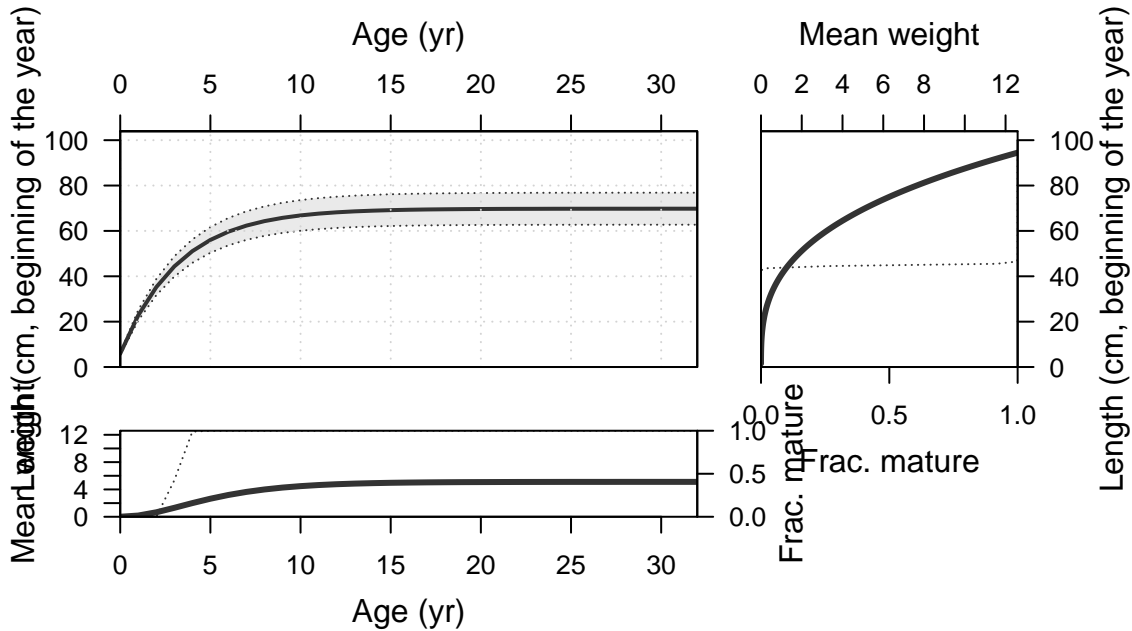
Control\_File: control.ss

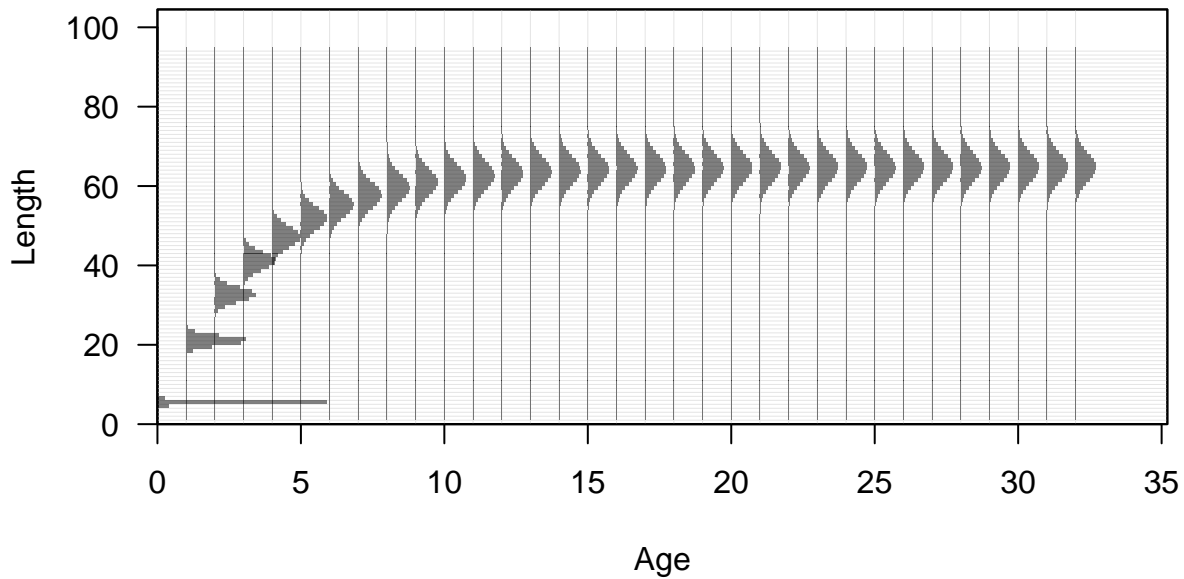
Length (cm, beginning of the year)

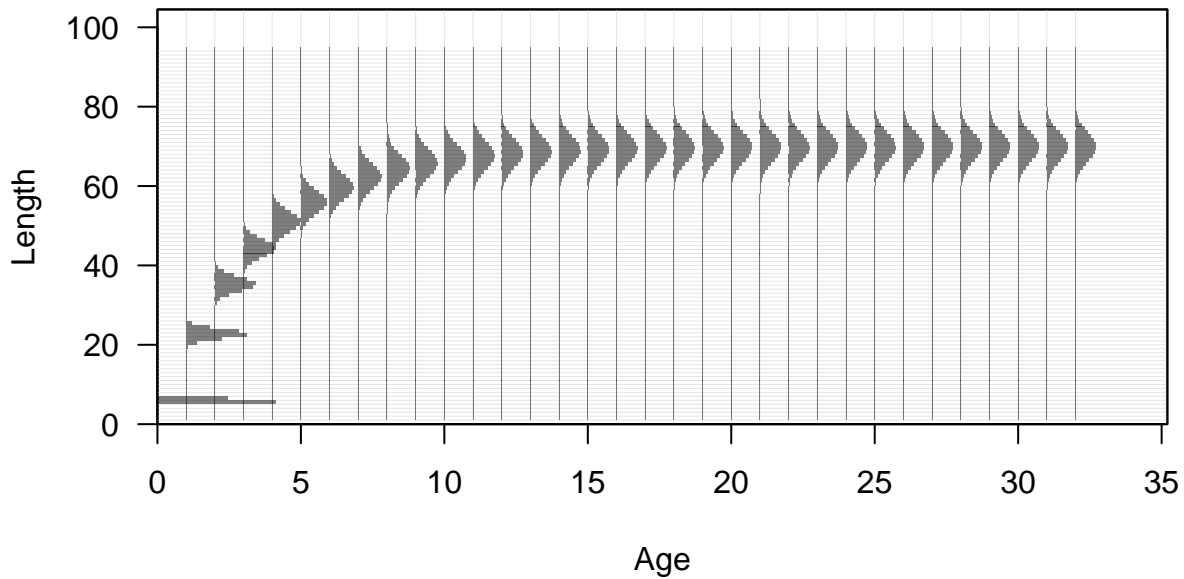


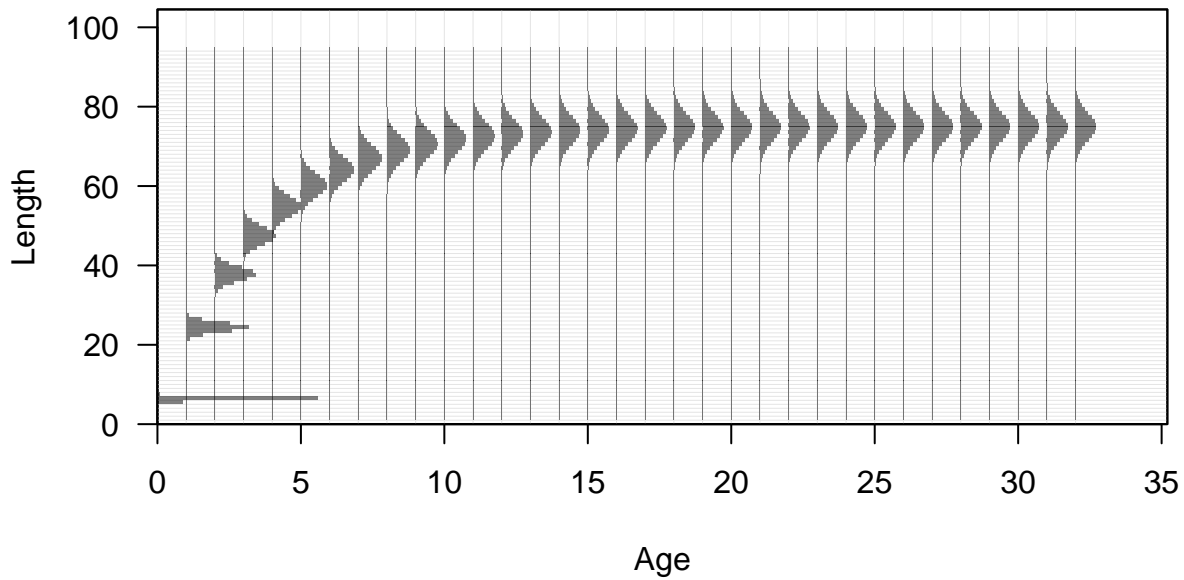
Age (yr)

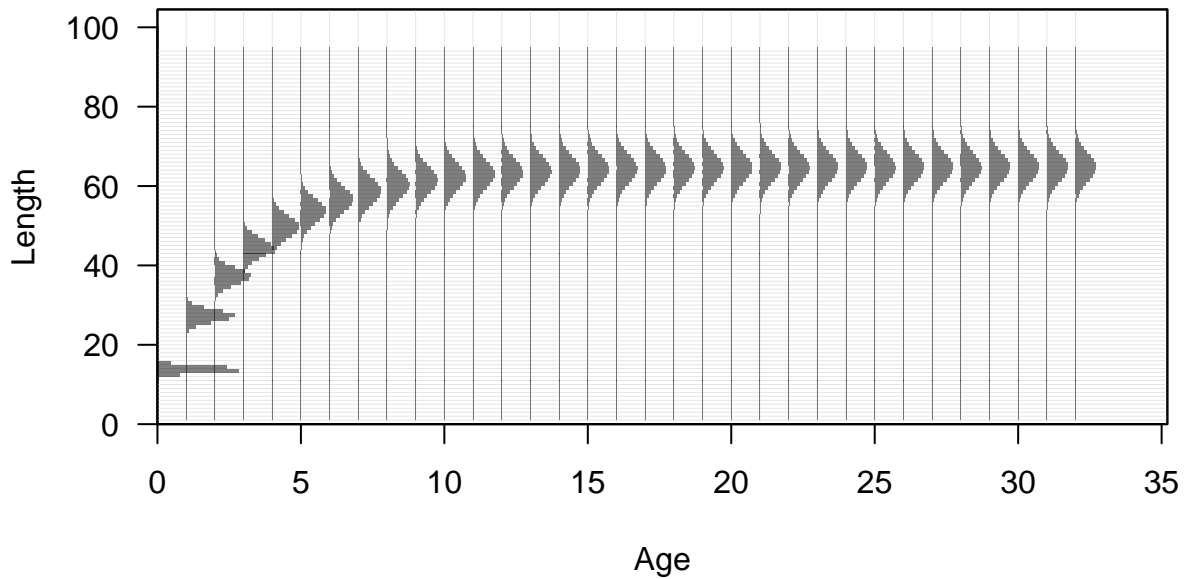




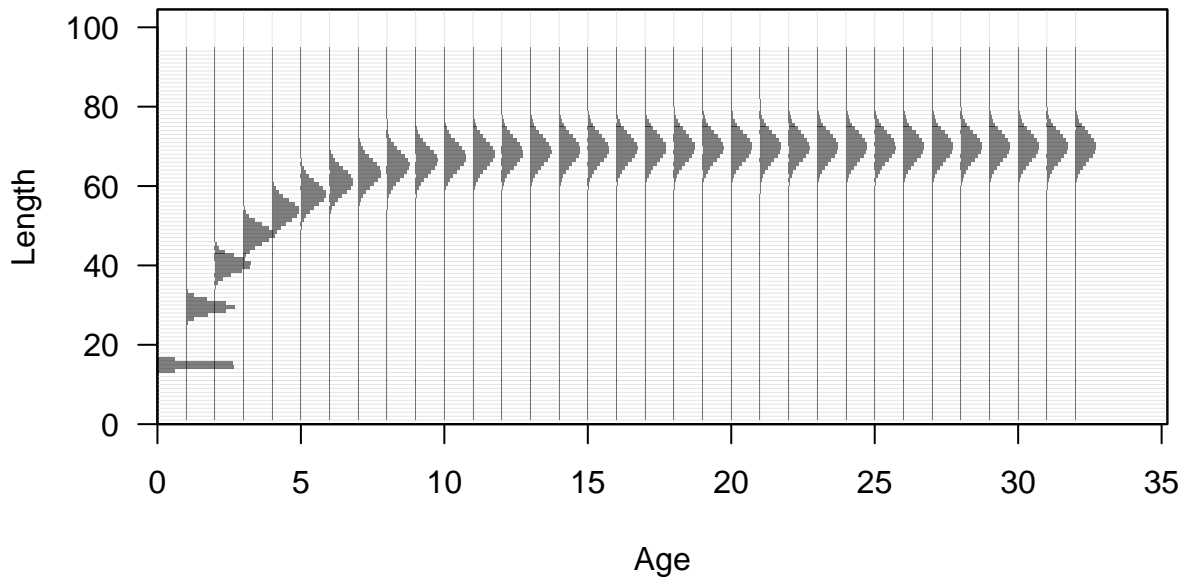


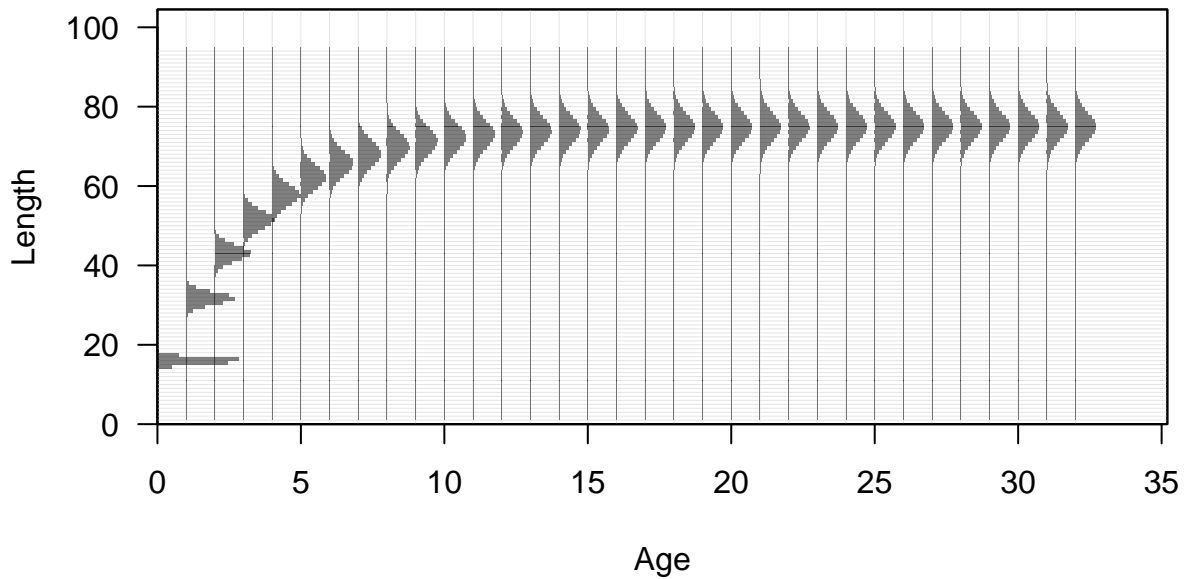


















Fecundity



Fecundity

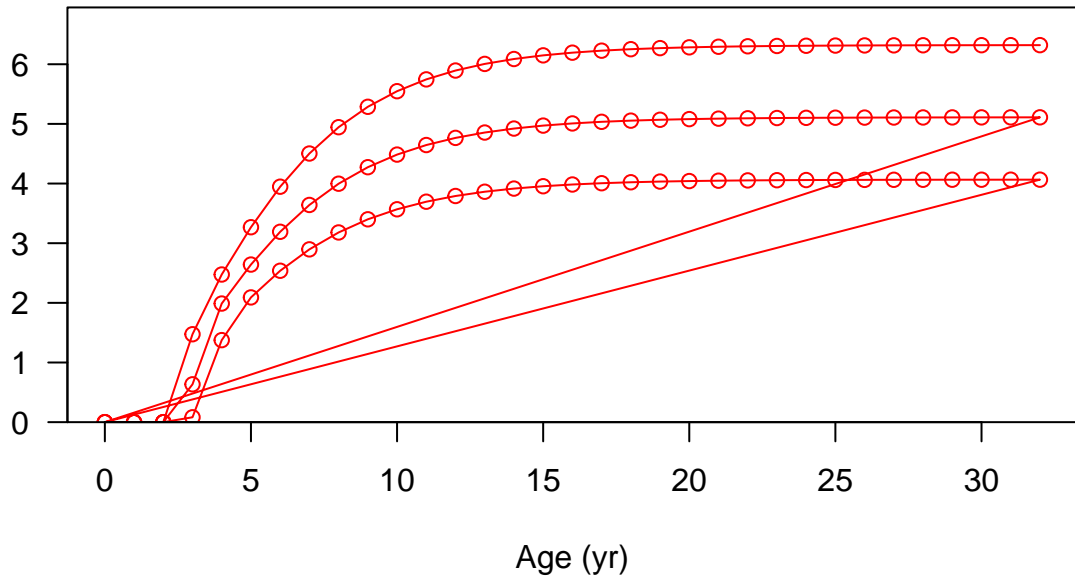


Spawning output

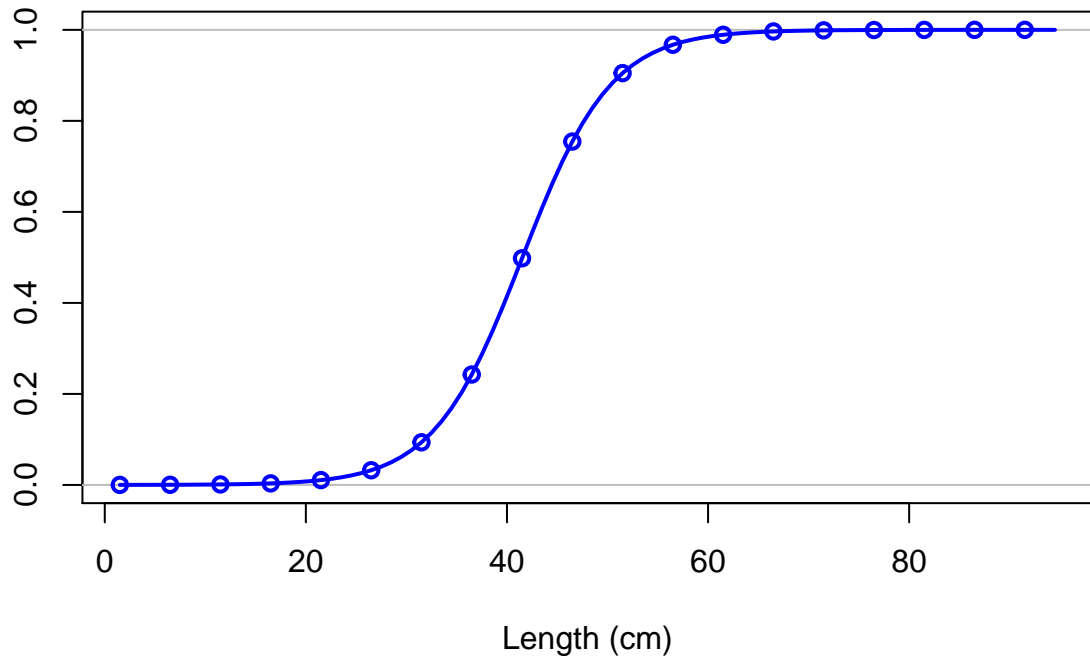




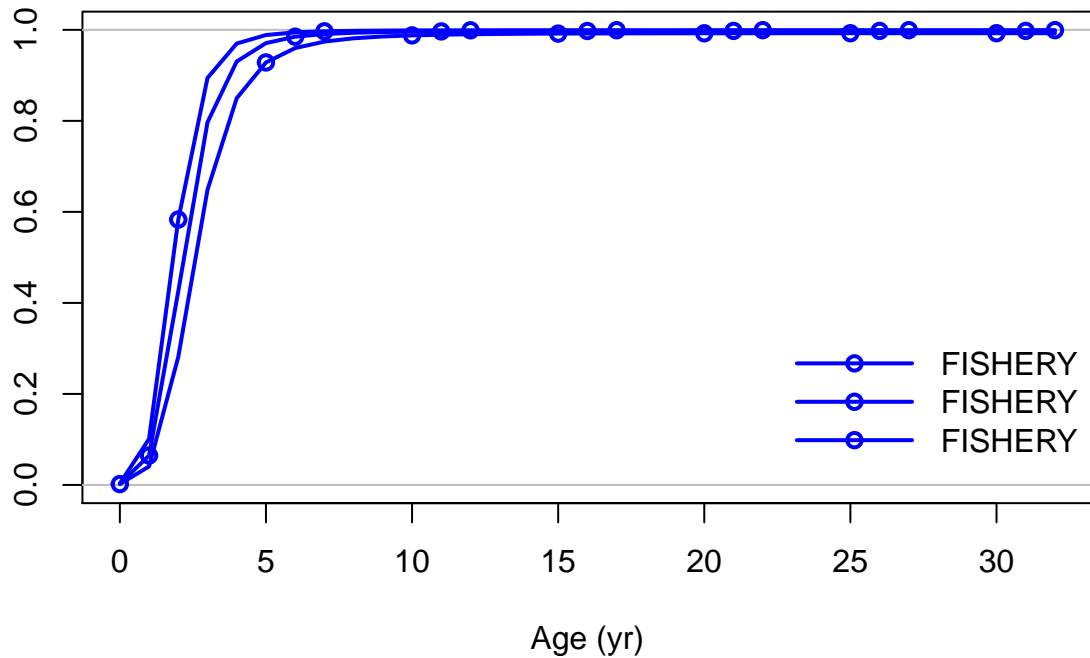
Spawning output



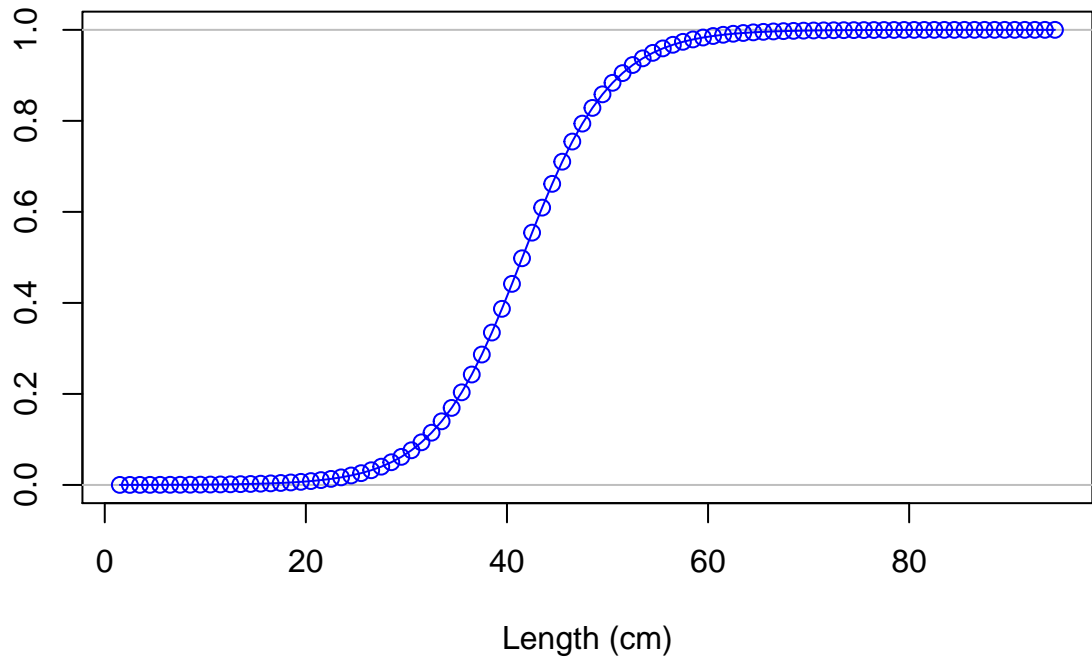
Selectivity

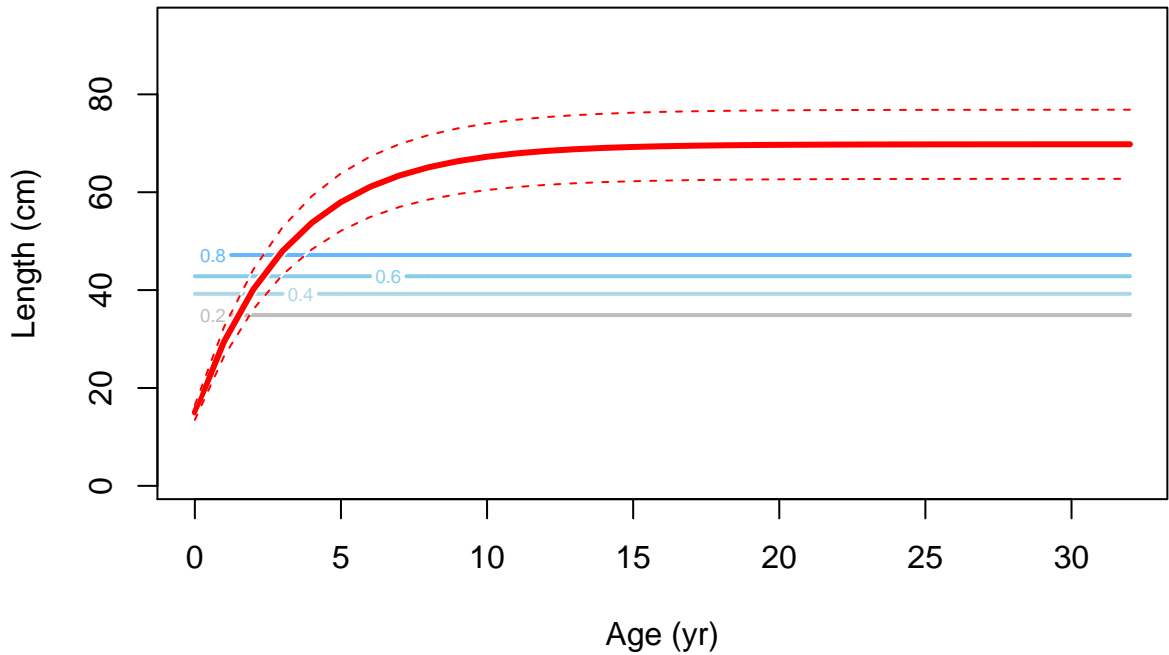


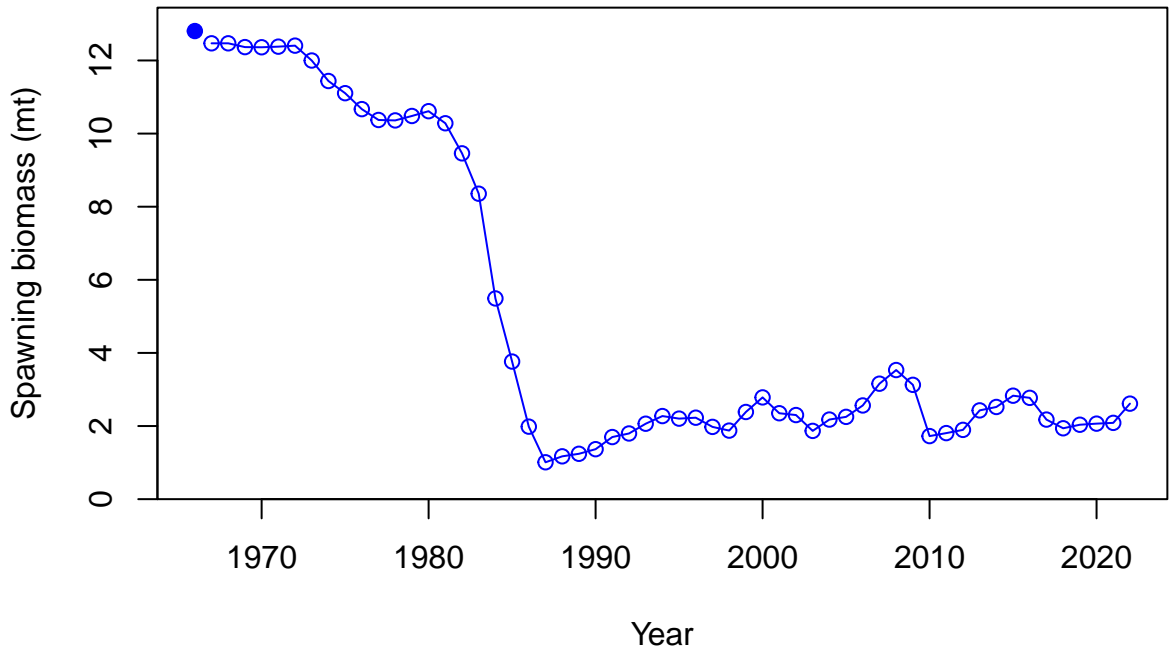
Selectivity



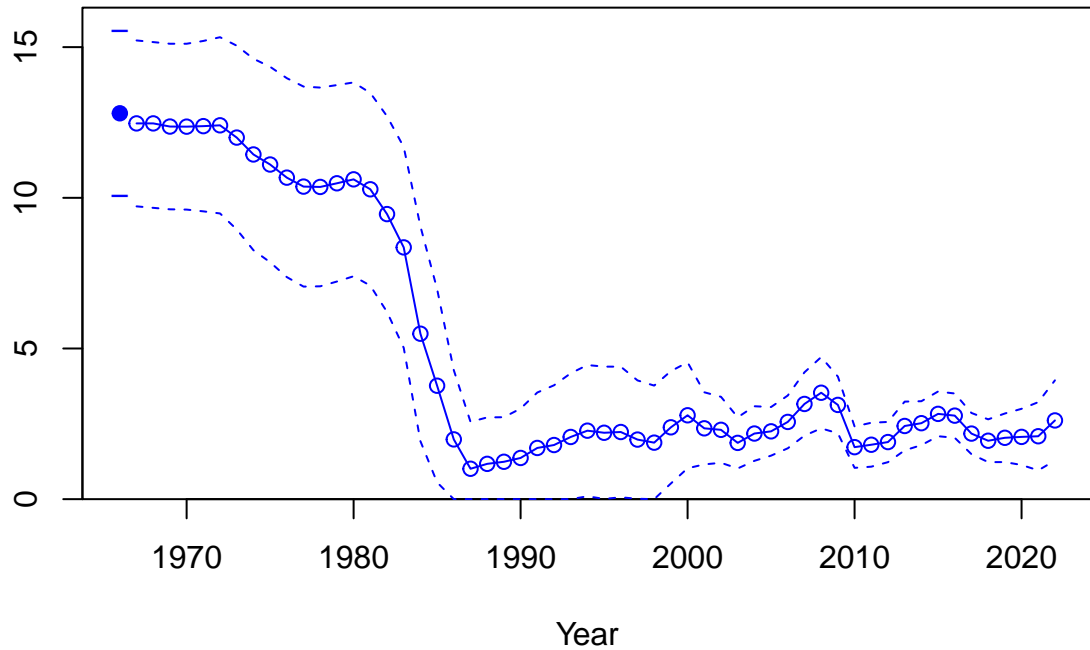
Selectivity



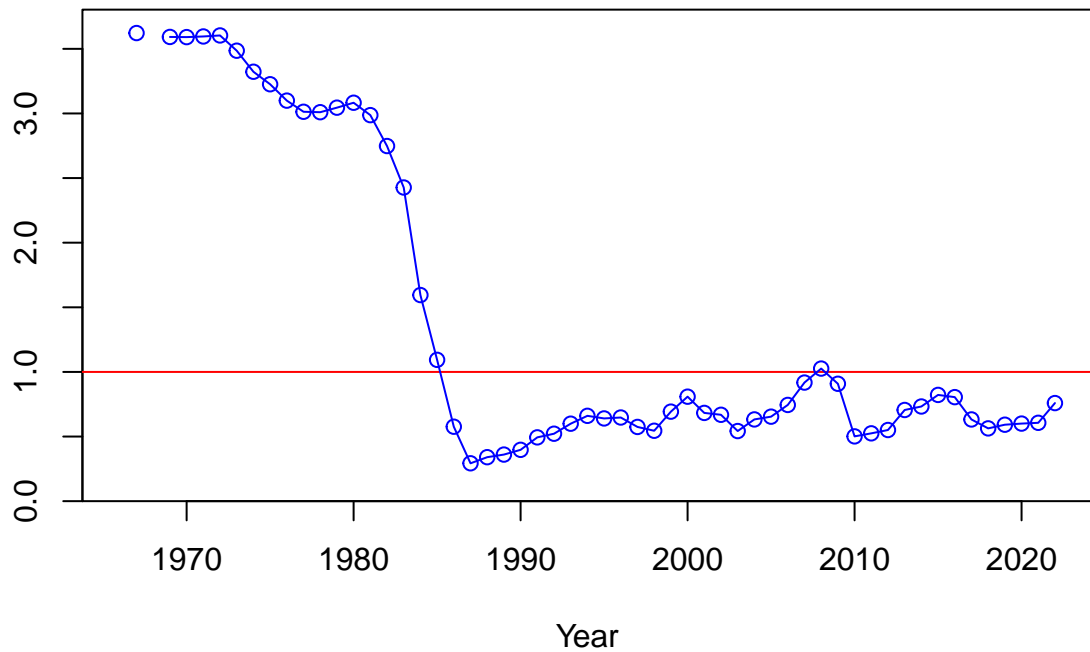




Spawning biomass (mt)

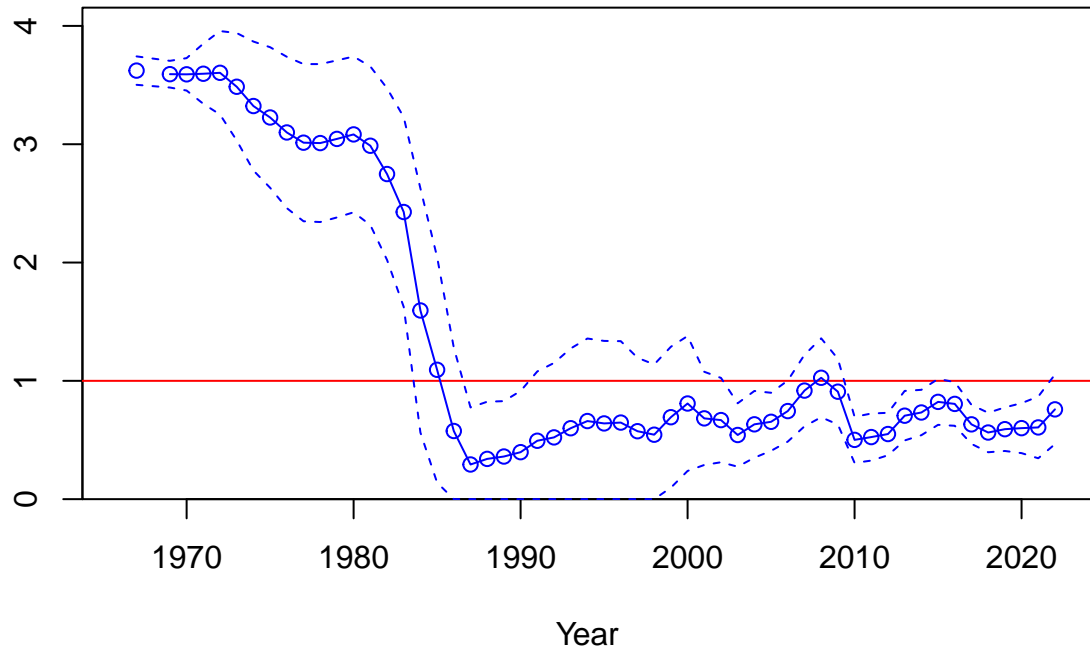


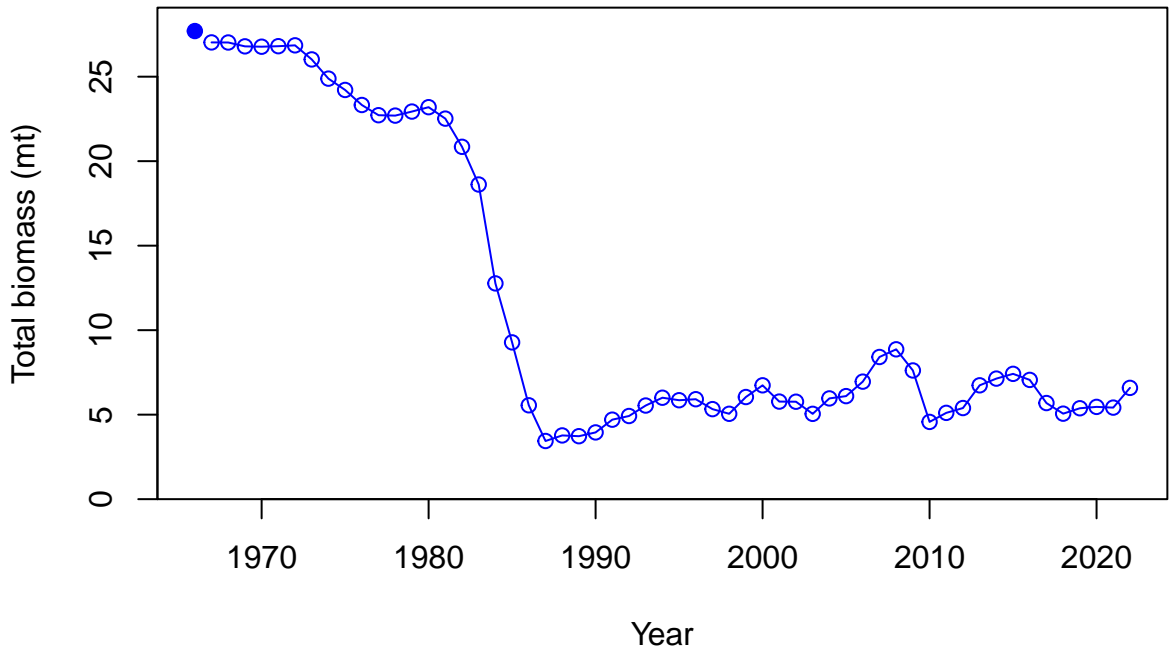
Relative spawning biomass:  $B/B_{MSY}$

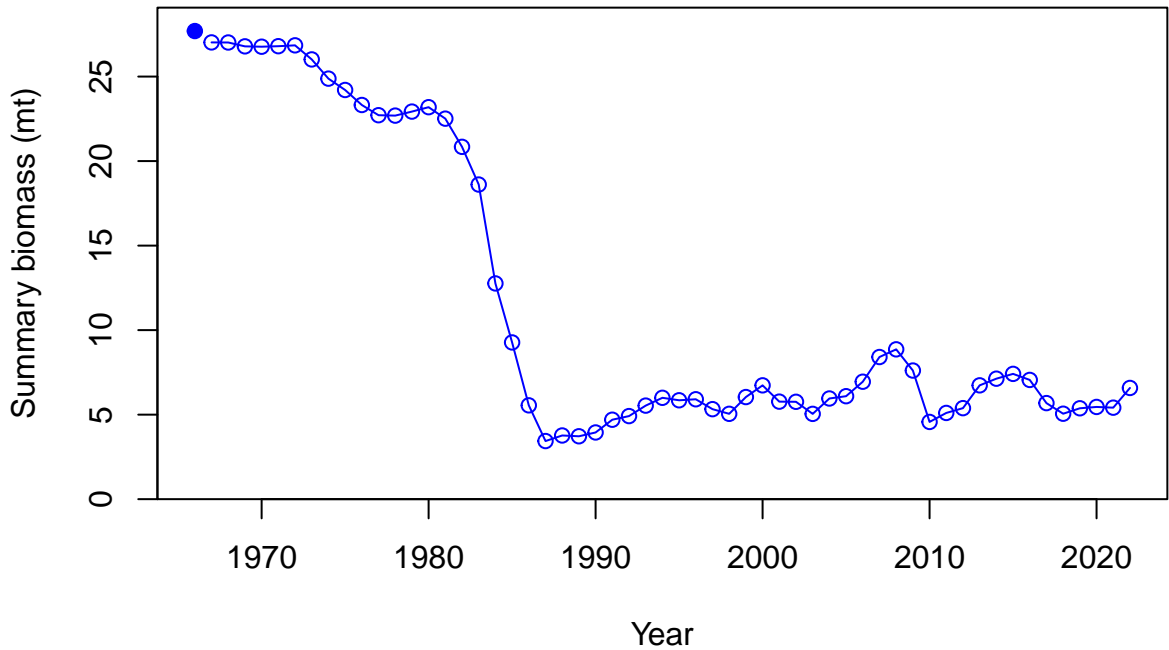


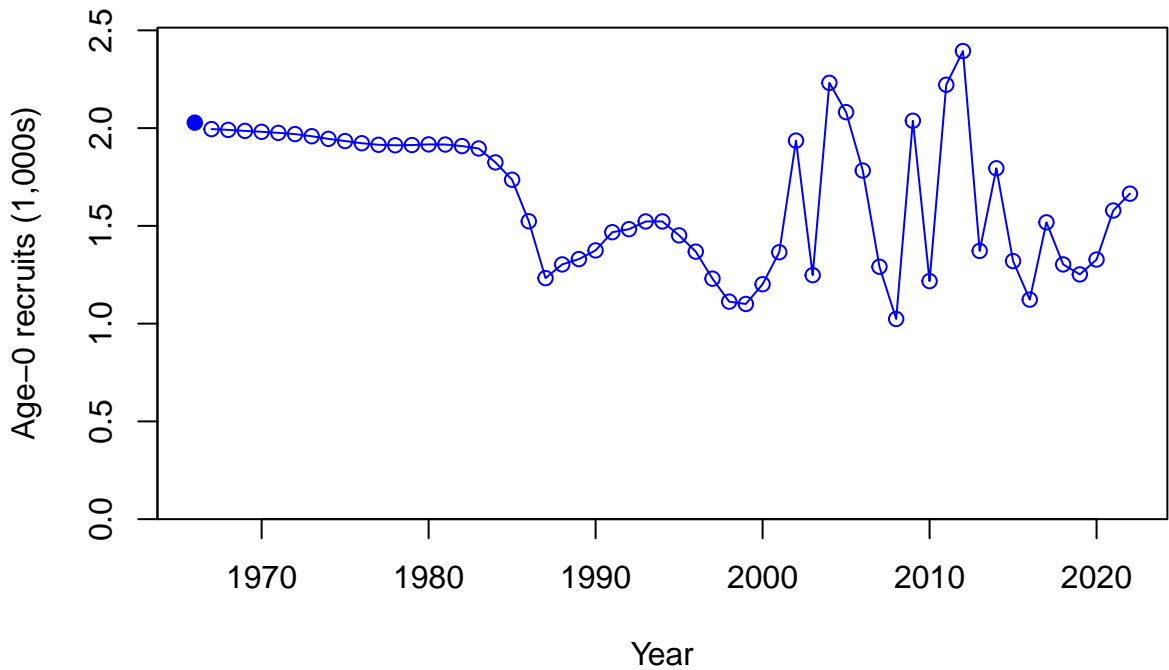


Relative spawning biomass: B/B<sub>MSY</sub>

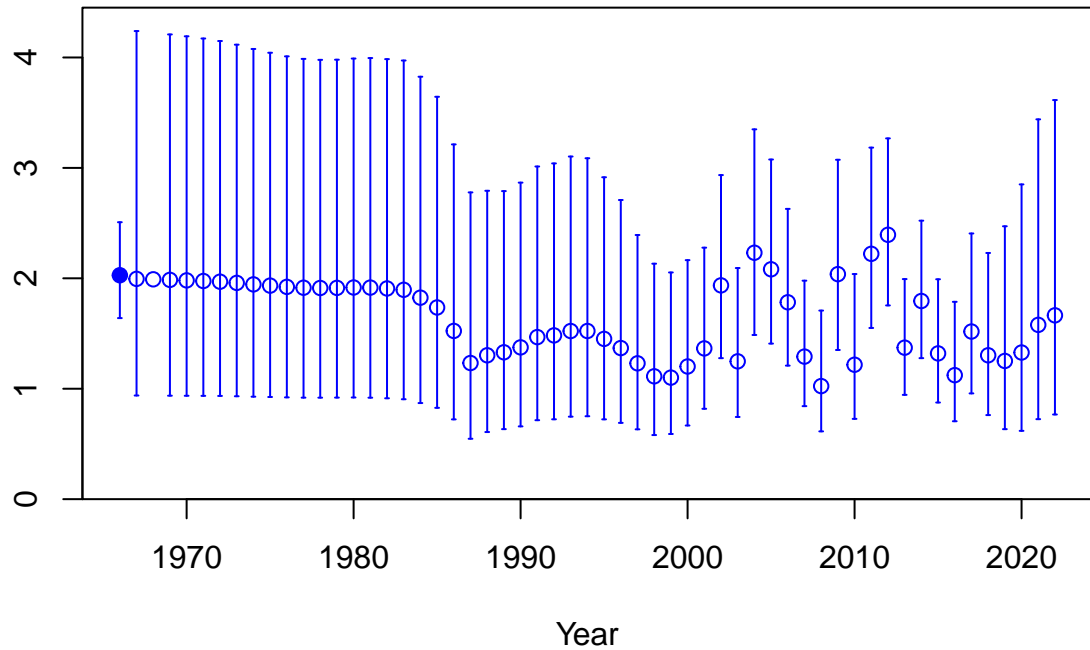




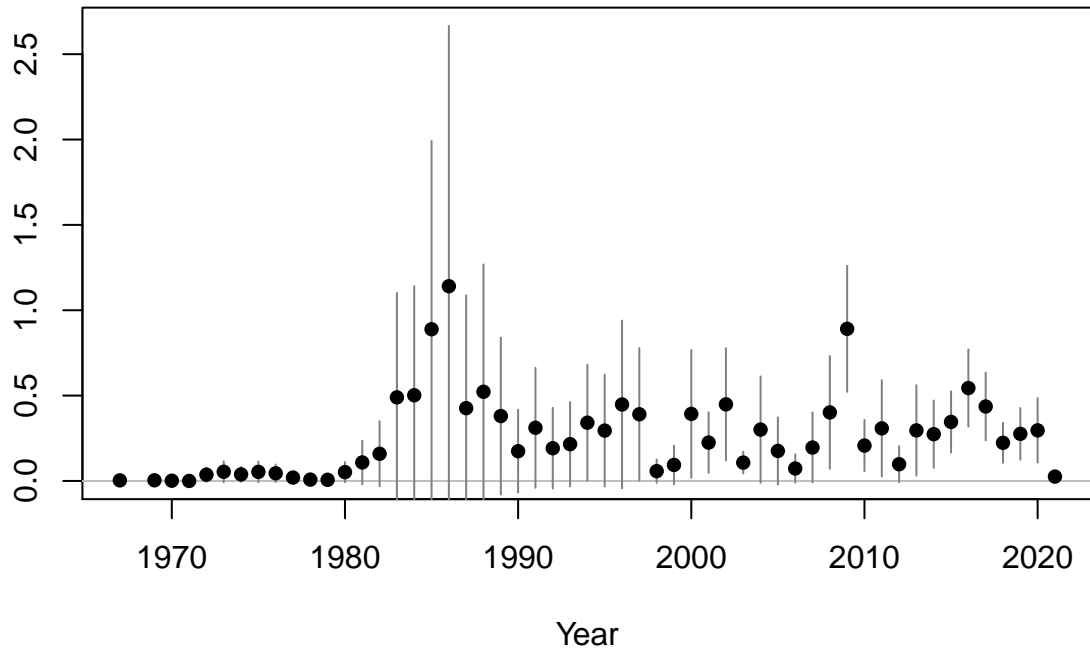


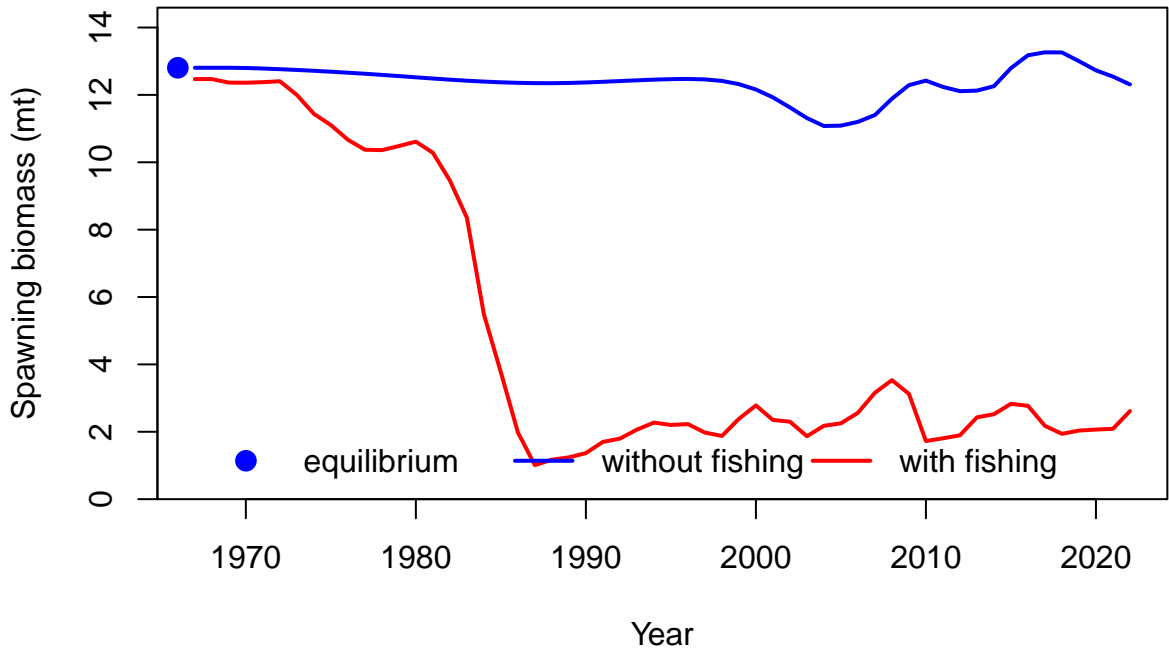


Age-0 recruits (1,000s)



Summary Fishing Mortality





Log recruitment deviation

0.4  
0.2  
0.0  
-0.2  
-0.4

1970

1980

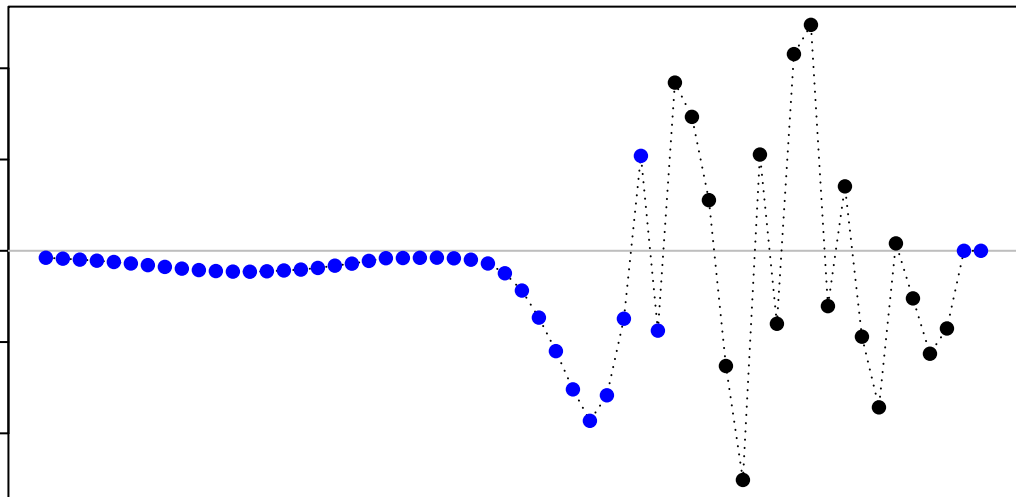
1990

2000

2010

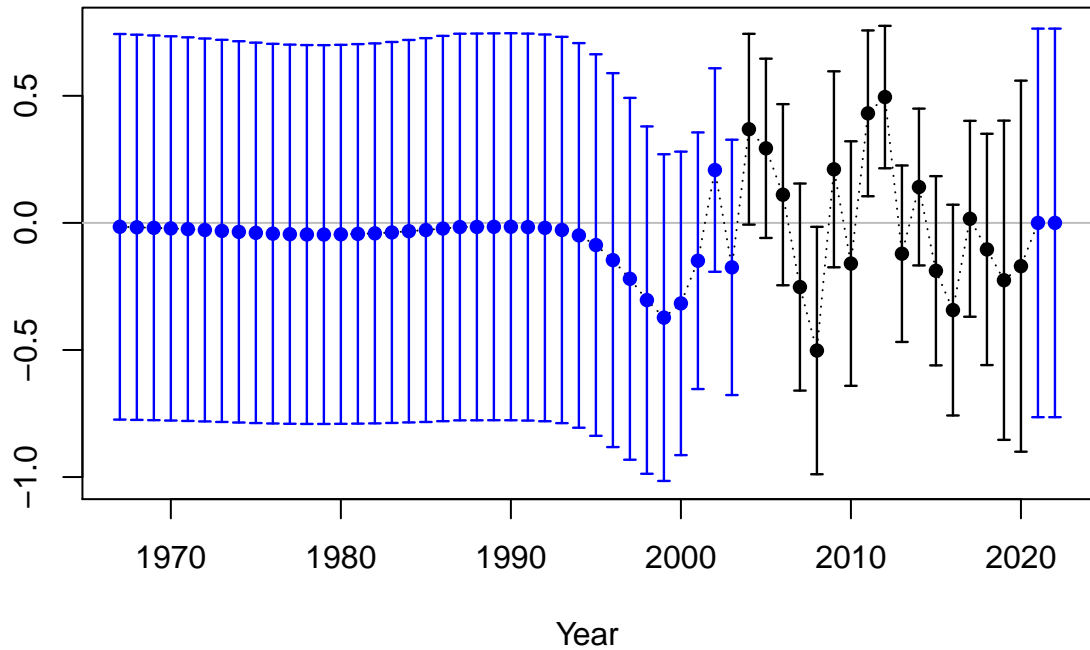
2020

Year

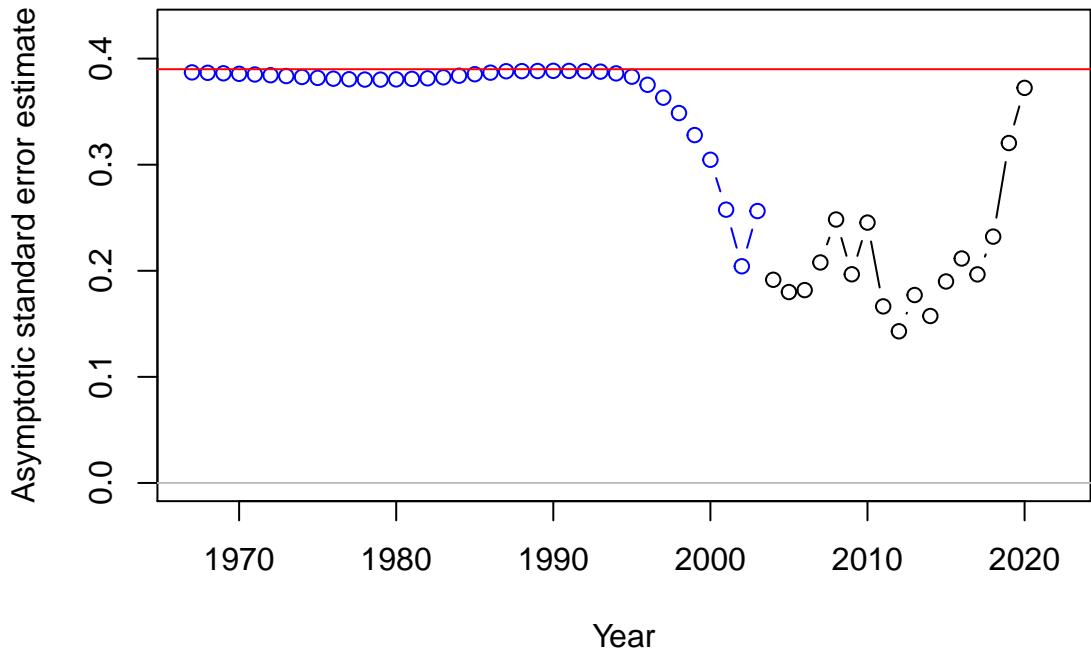


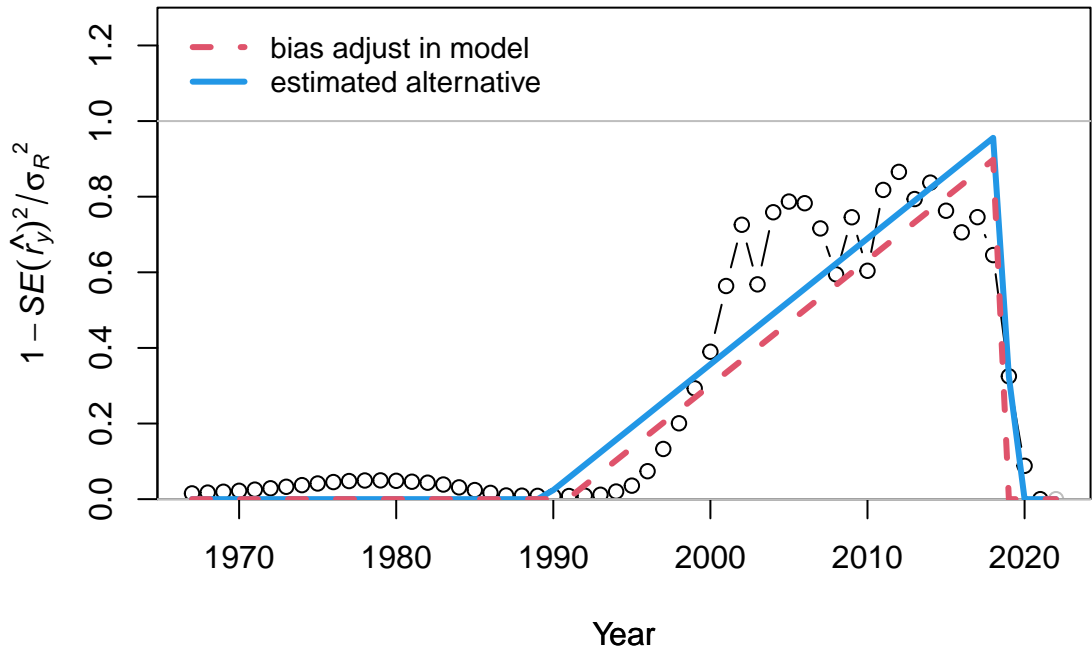


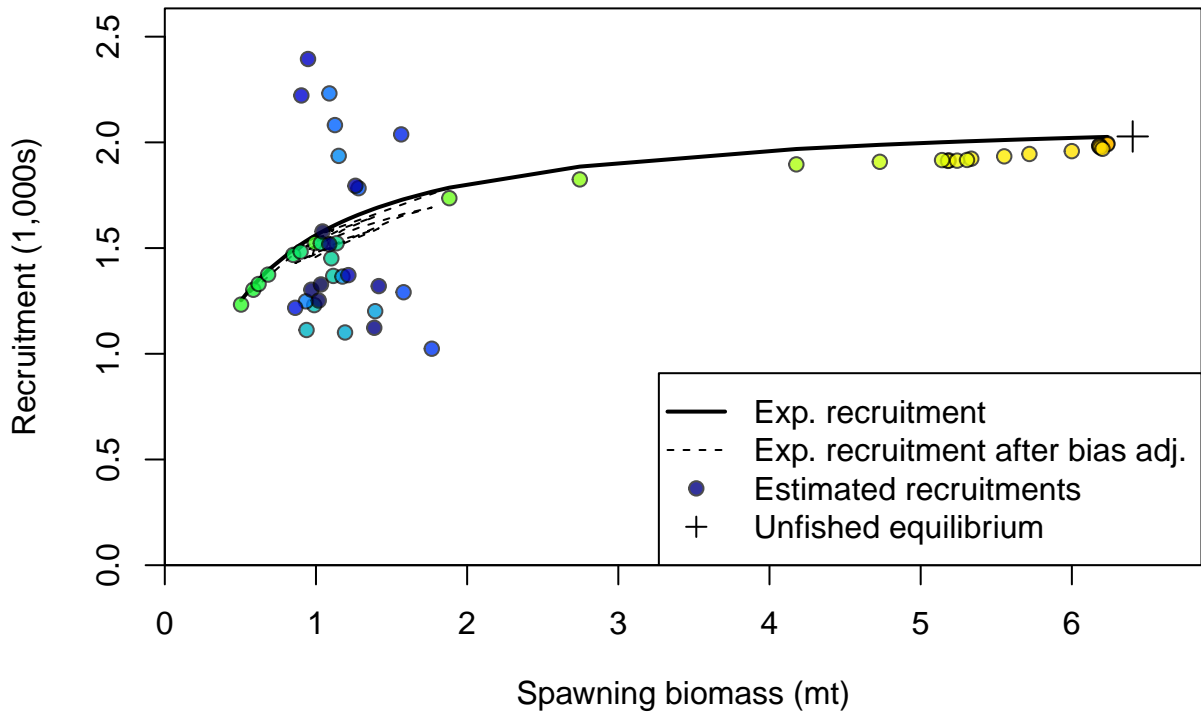
Log recruitment deviation

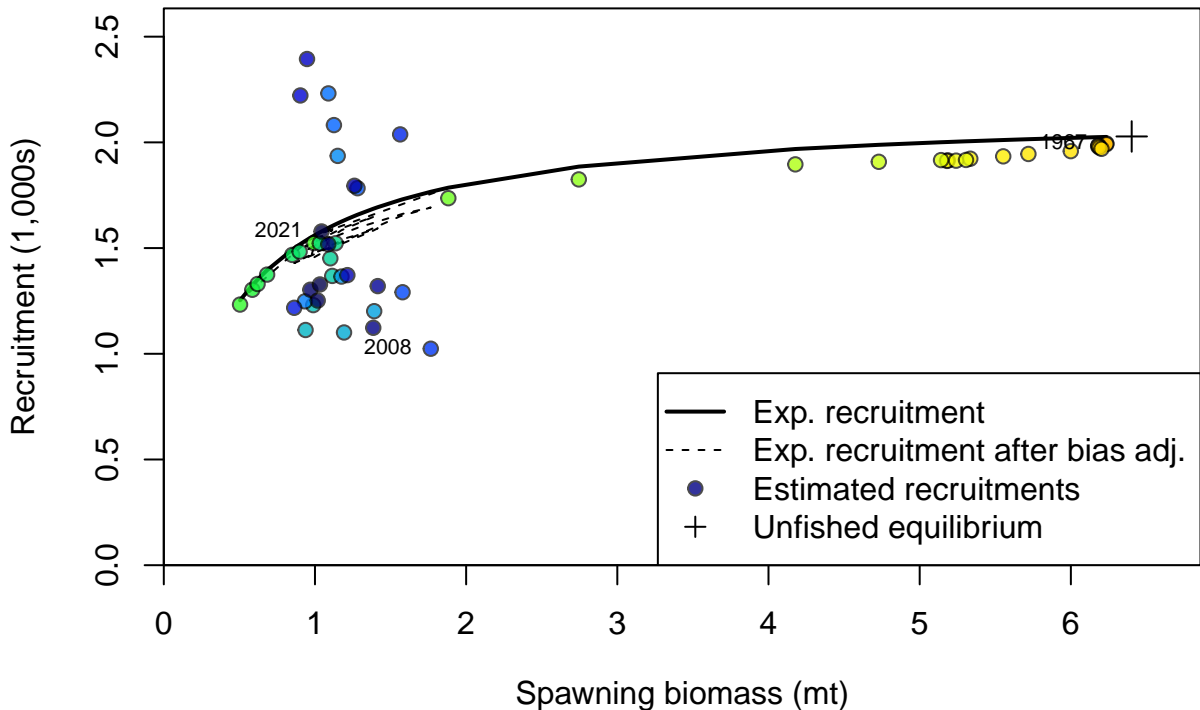


## Recruitment deviation variance

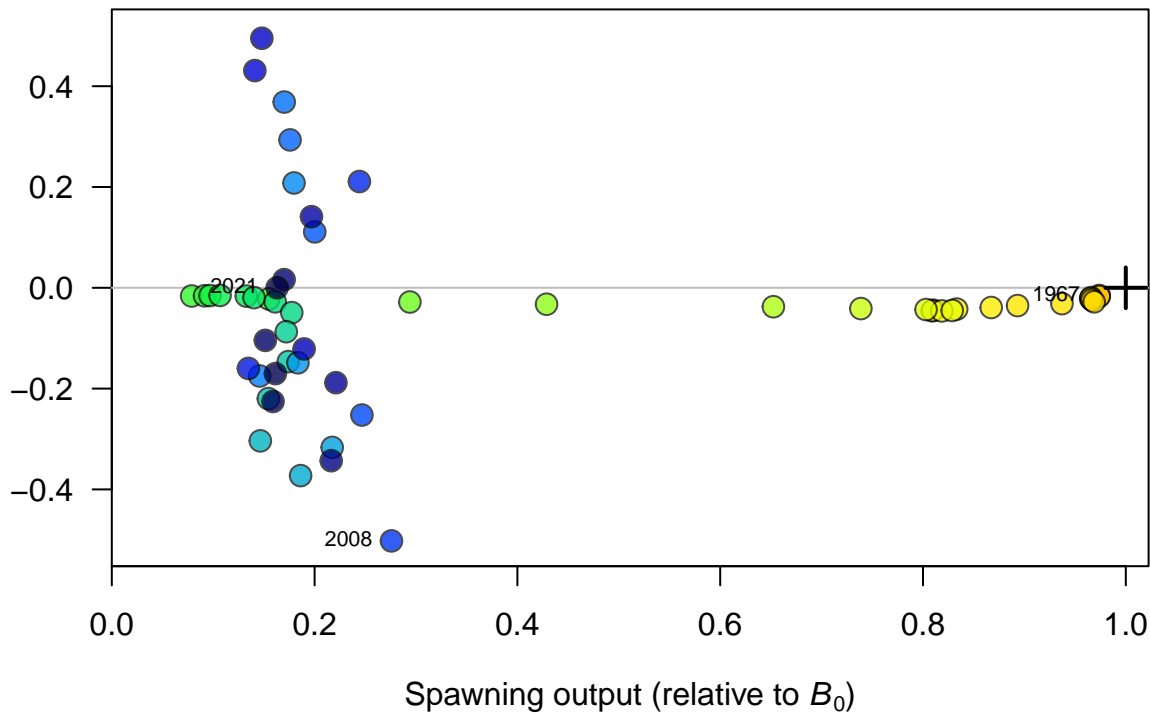


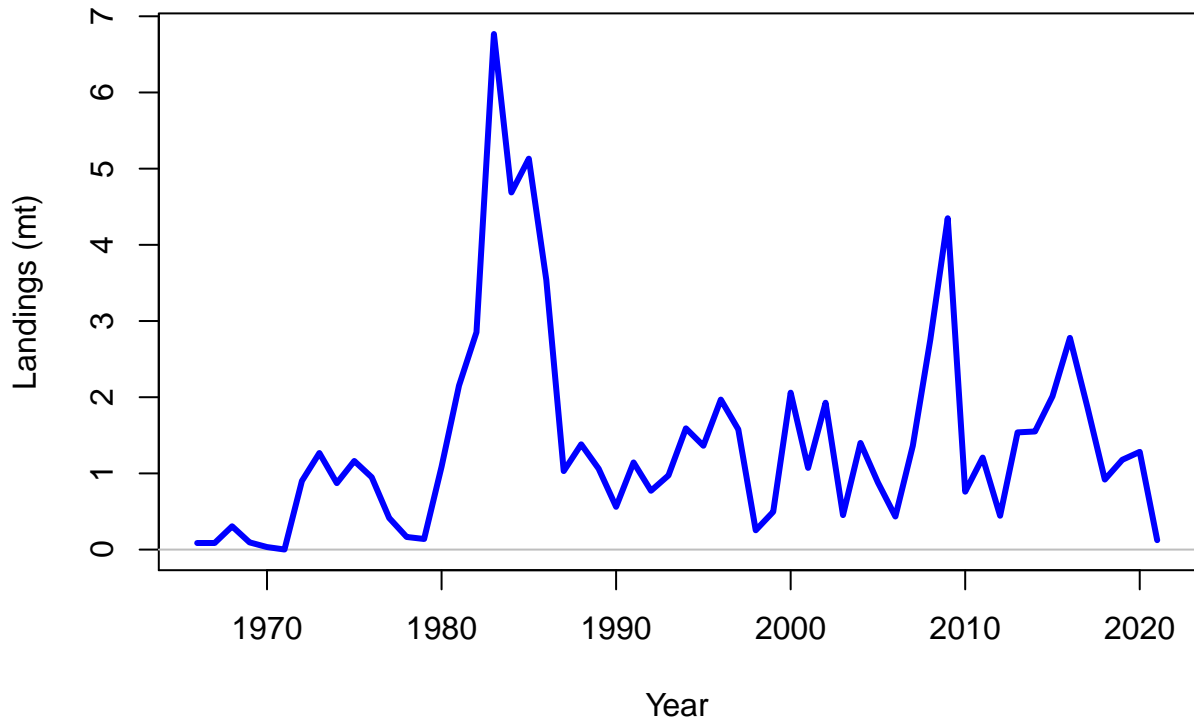


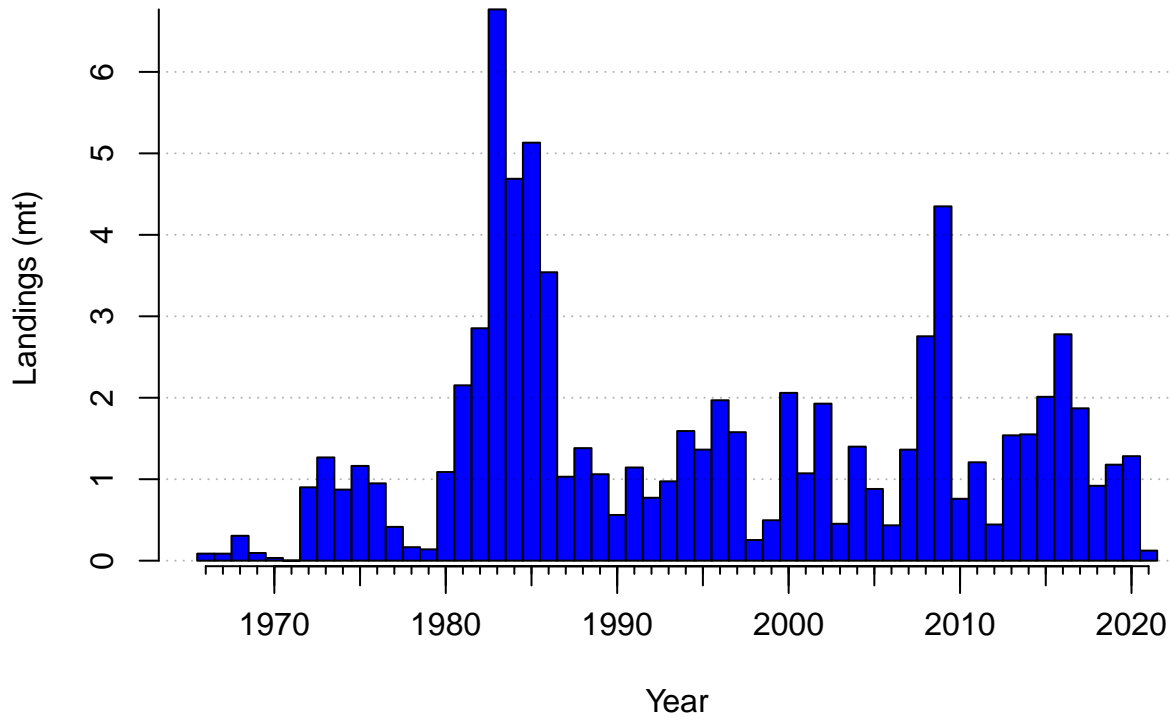




Log recruitment deviation

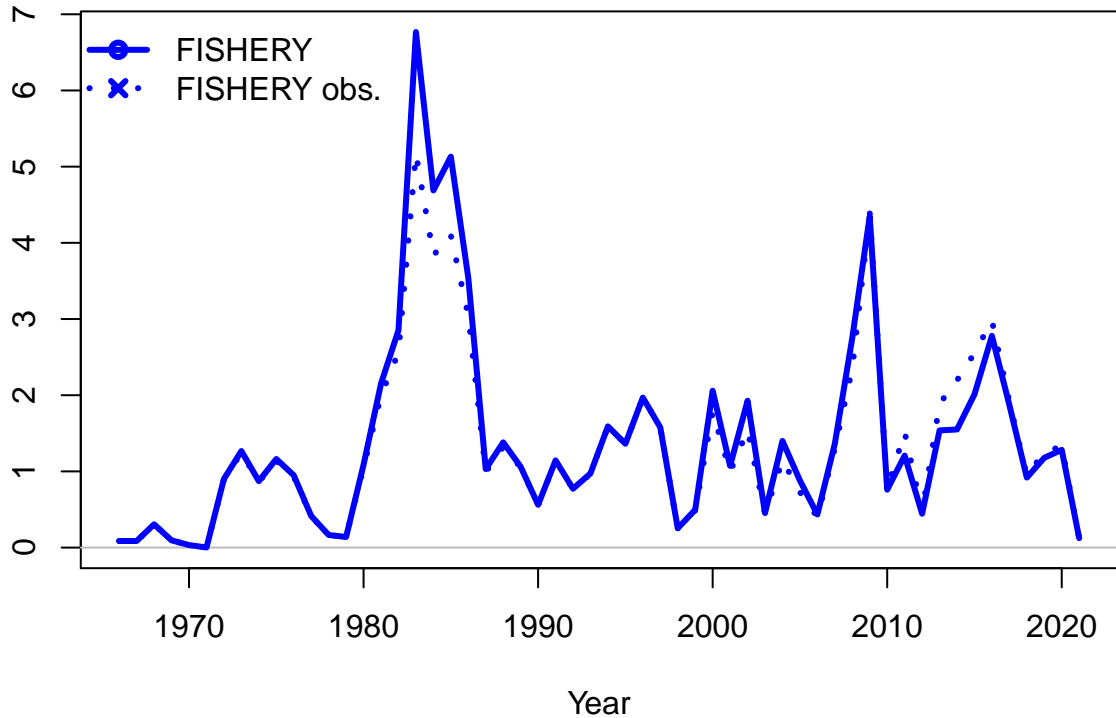


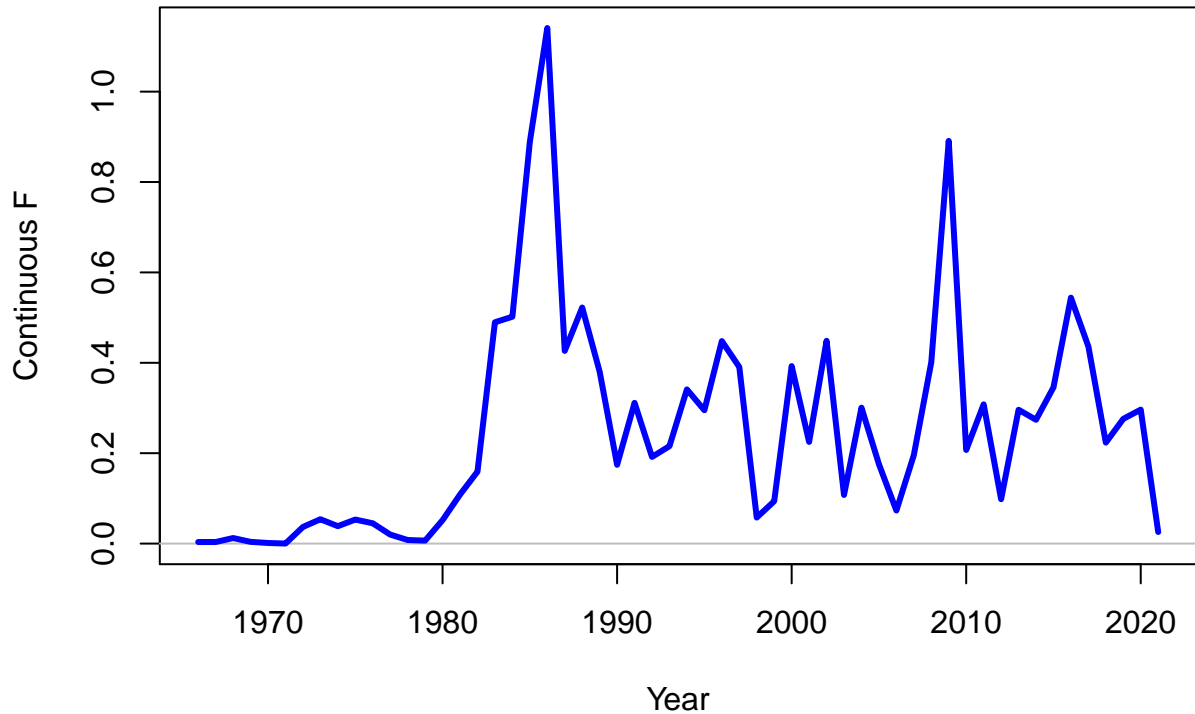




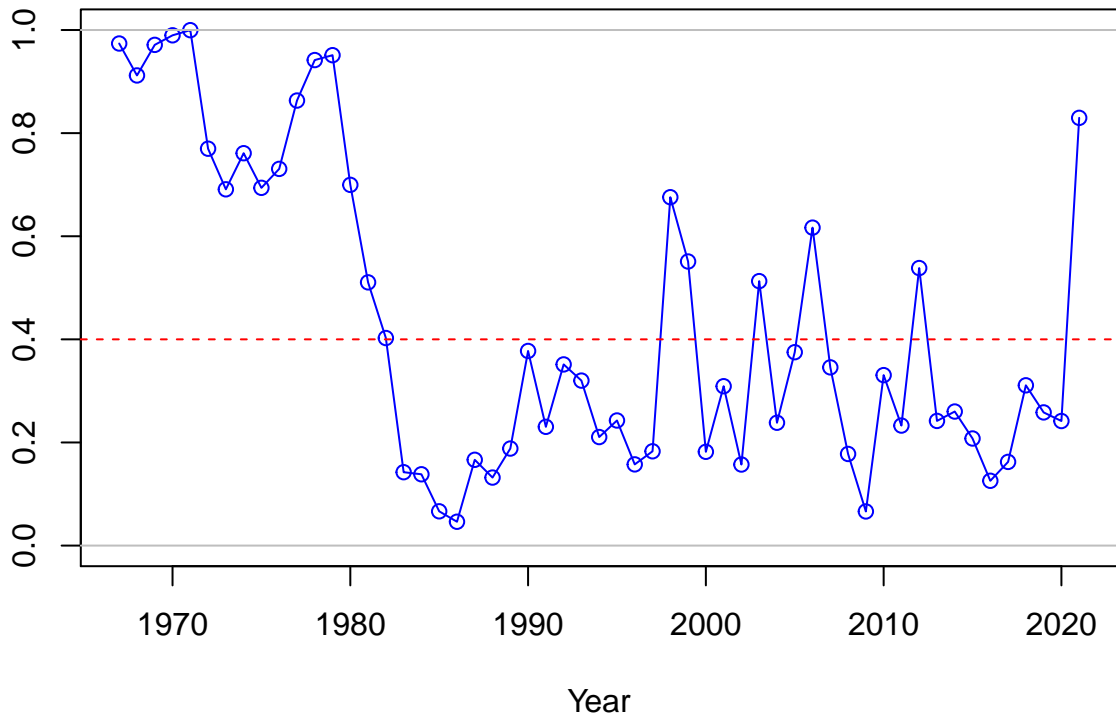


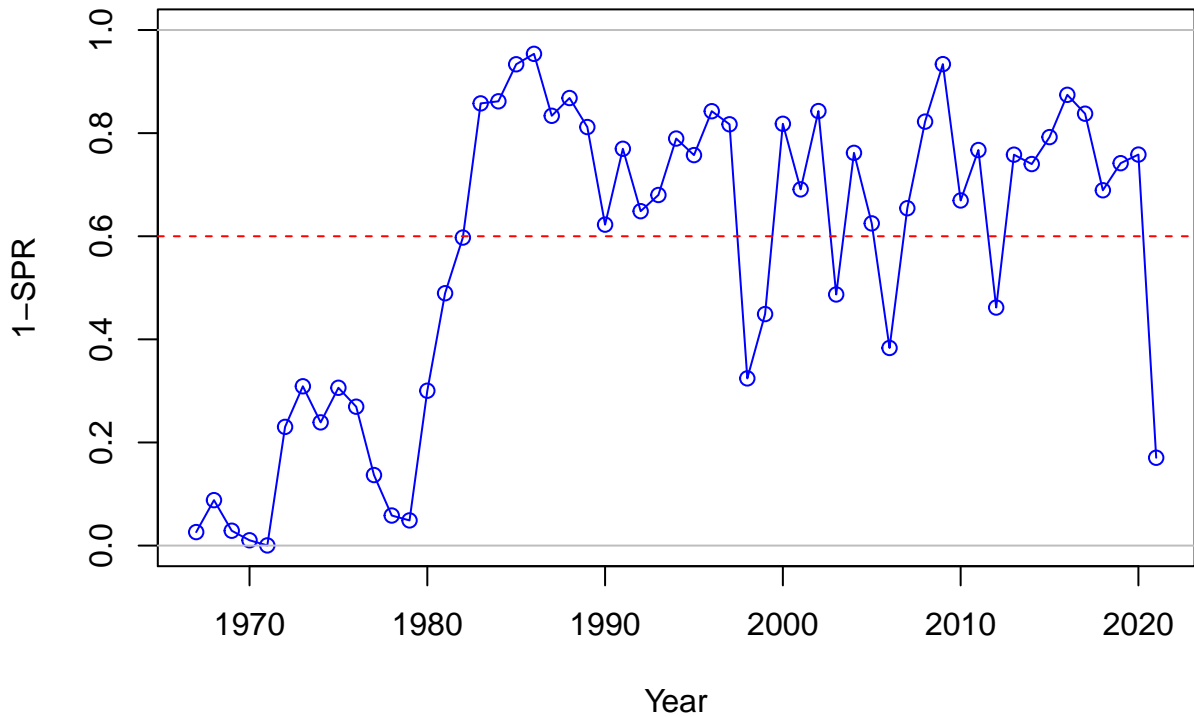
Observed and expected Landings (mt)



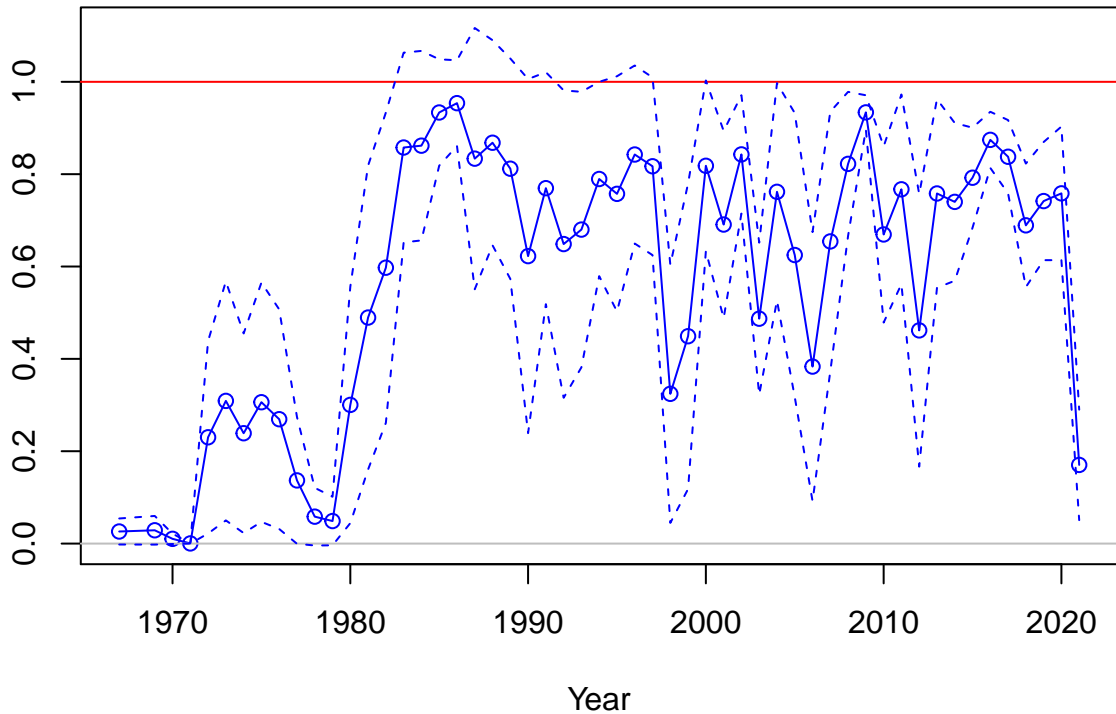


SPR

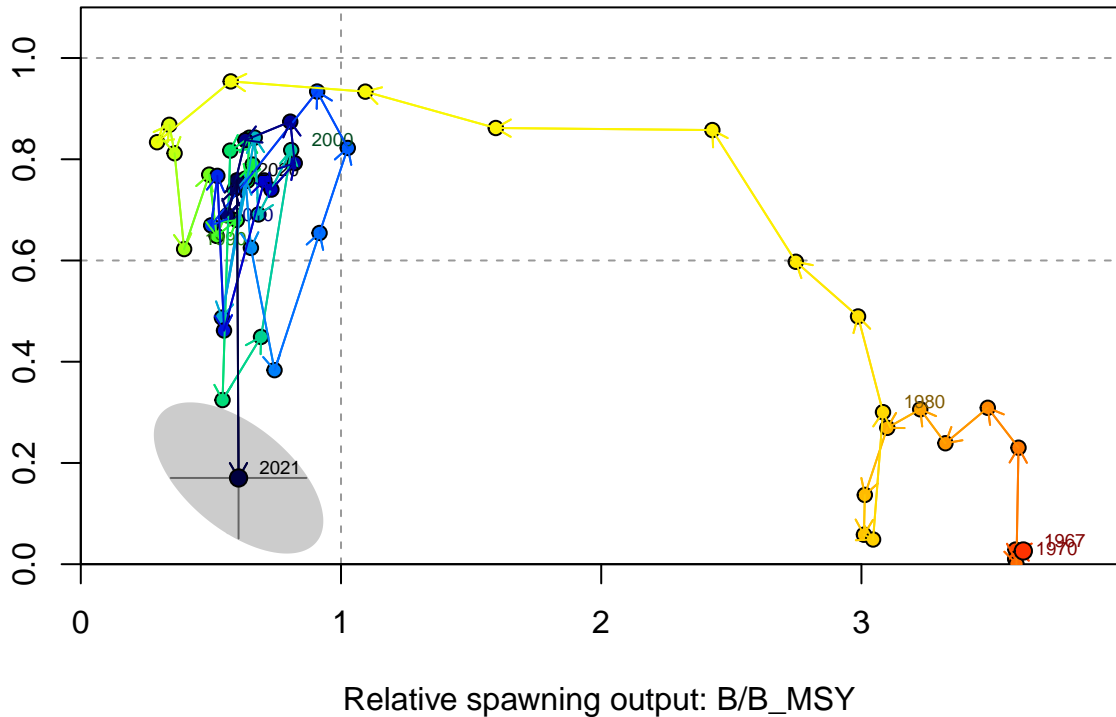


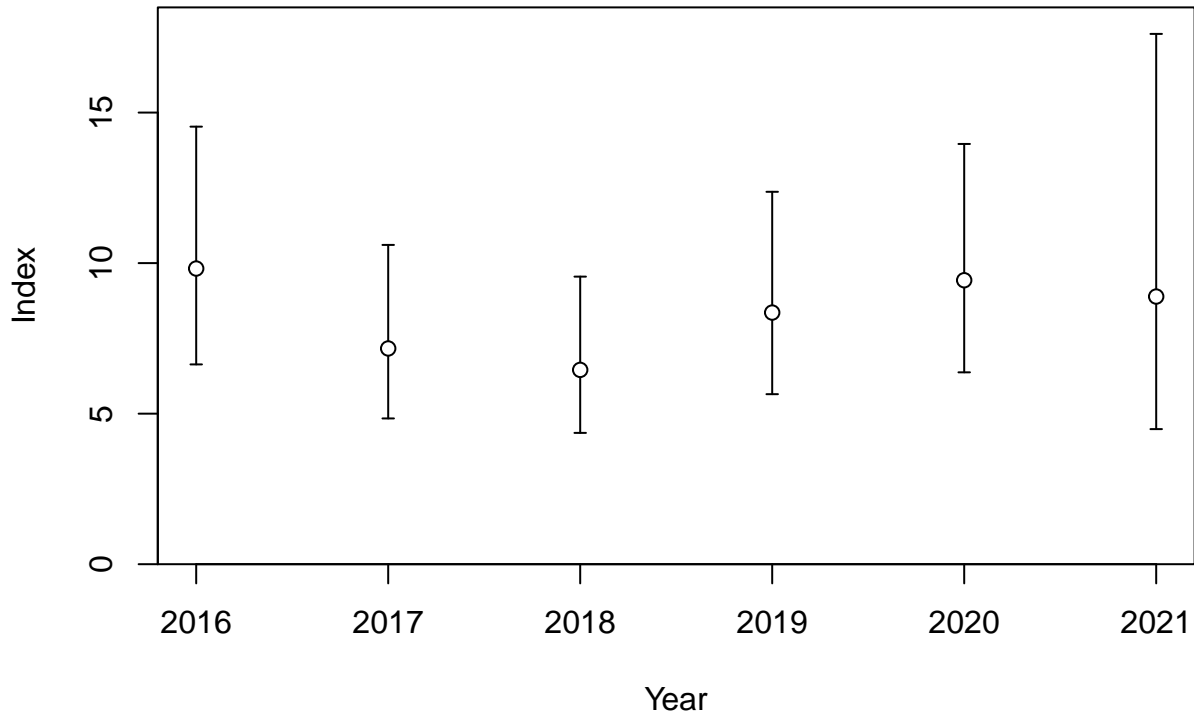


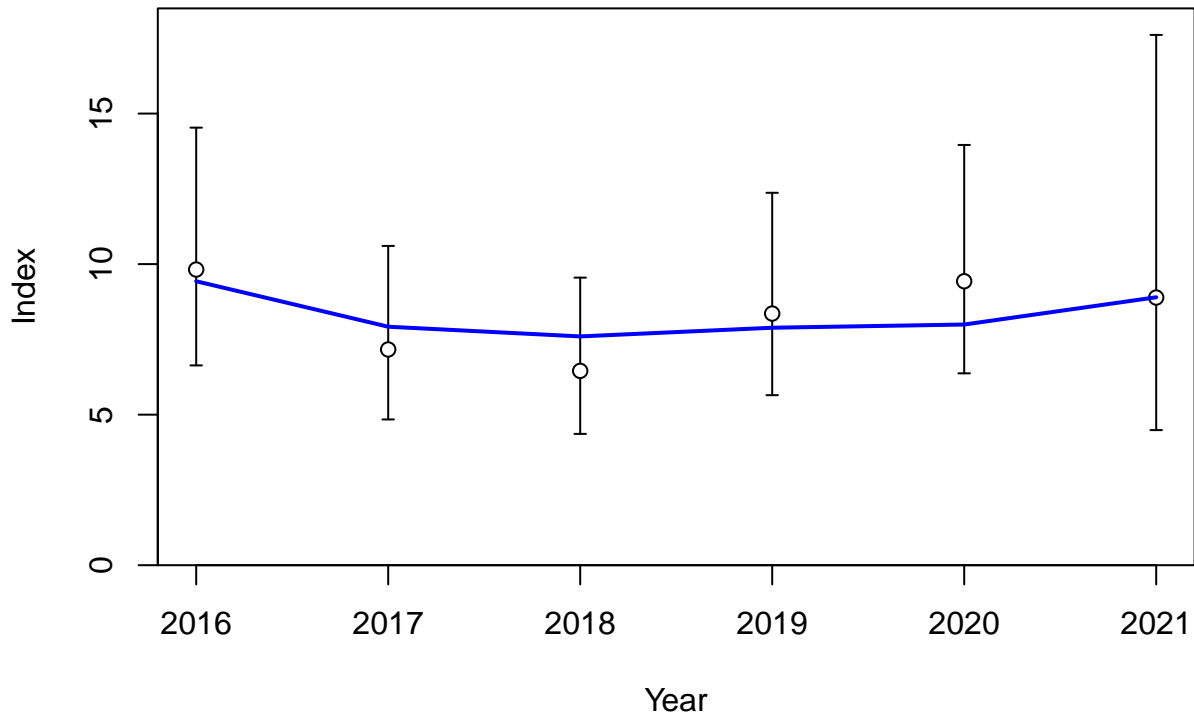
Fishing intensity: 1-SPR



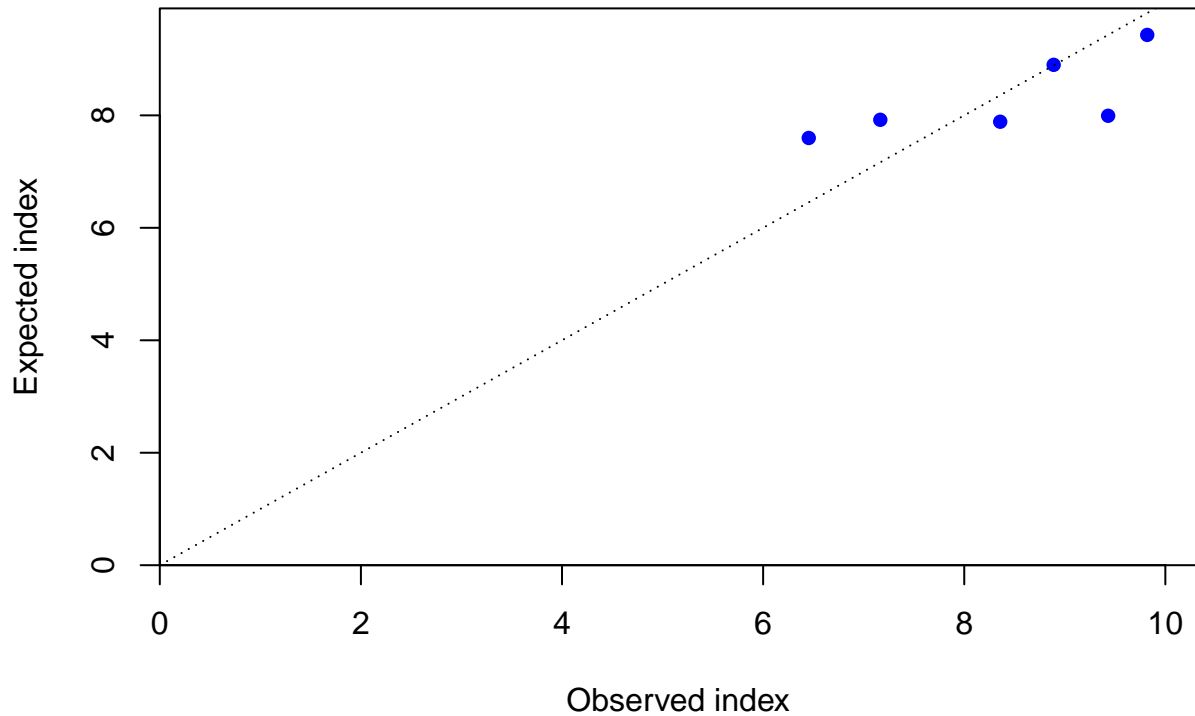
Fishing intensity: 1-SPR

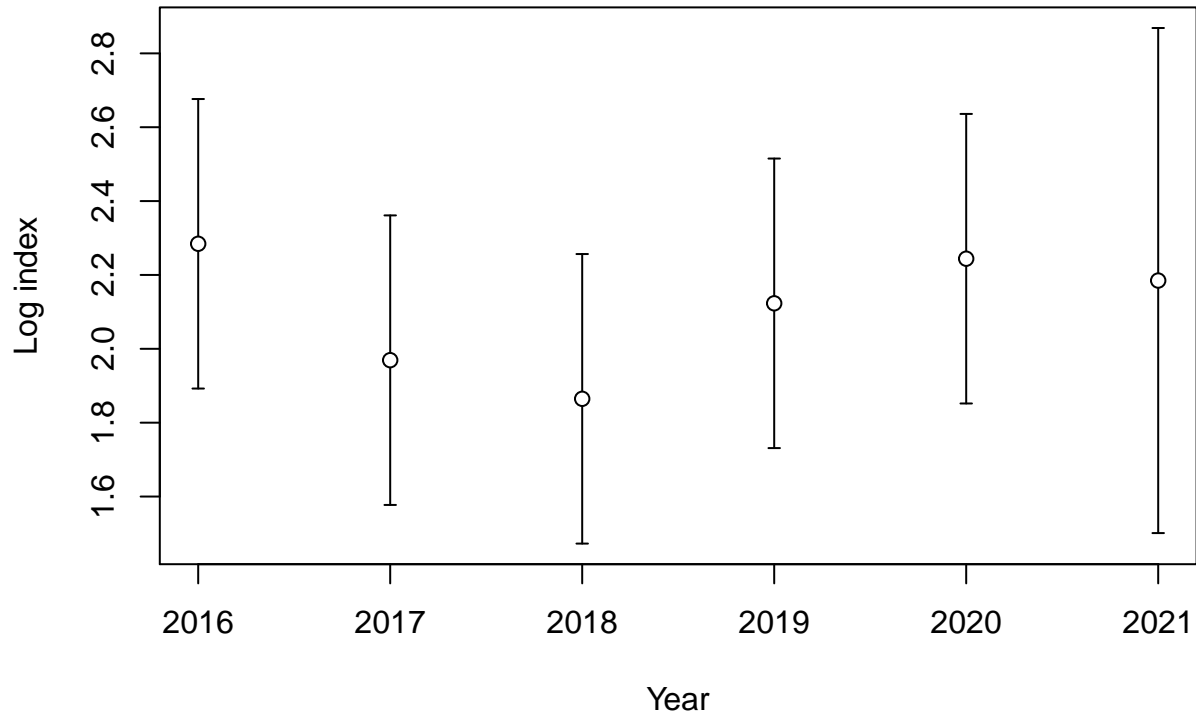












Log index

2.8  
2.6  
2.4  
2.2  
2.0  
1.8  
1.6

2016

2017

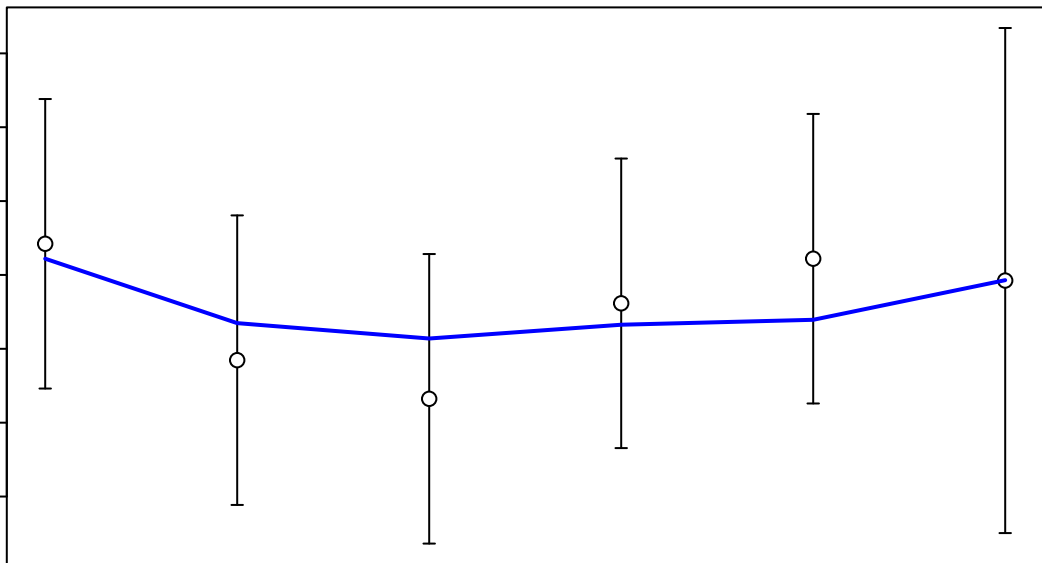
2018

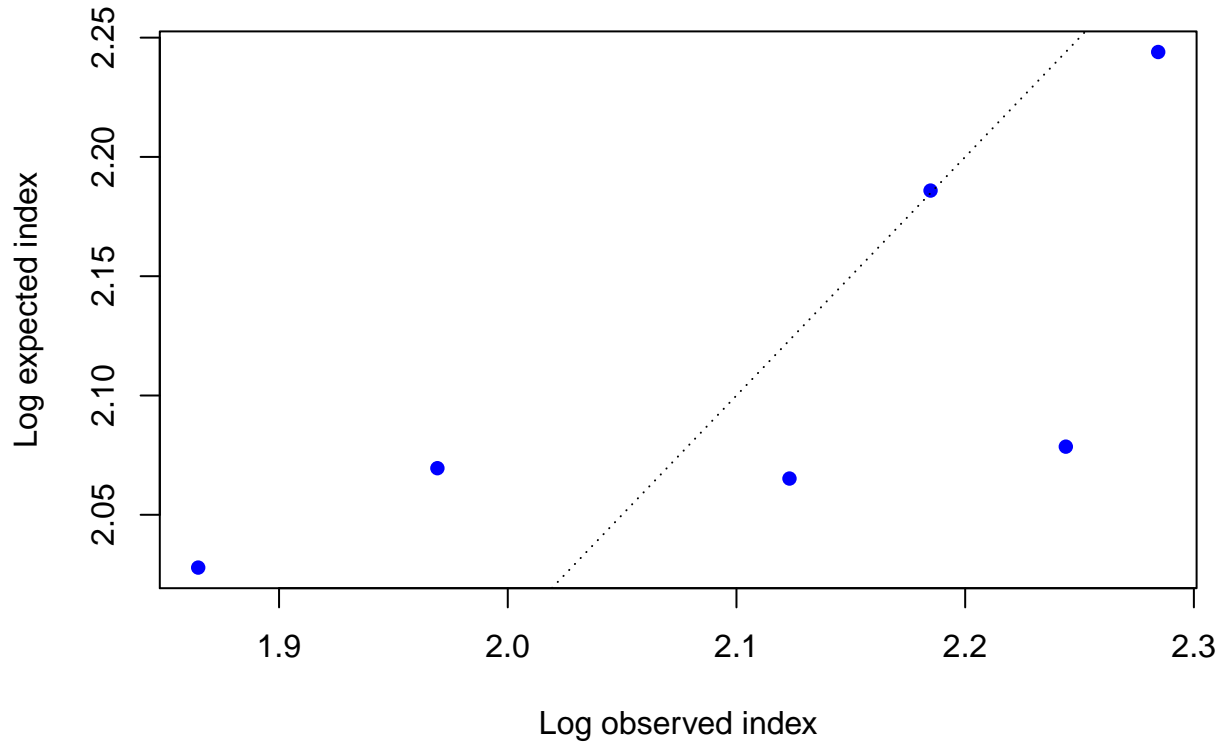
2019

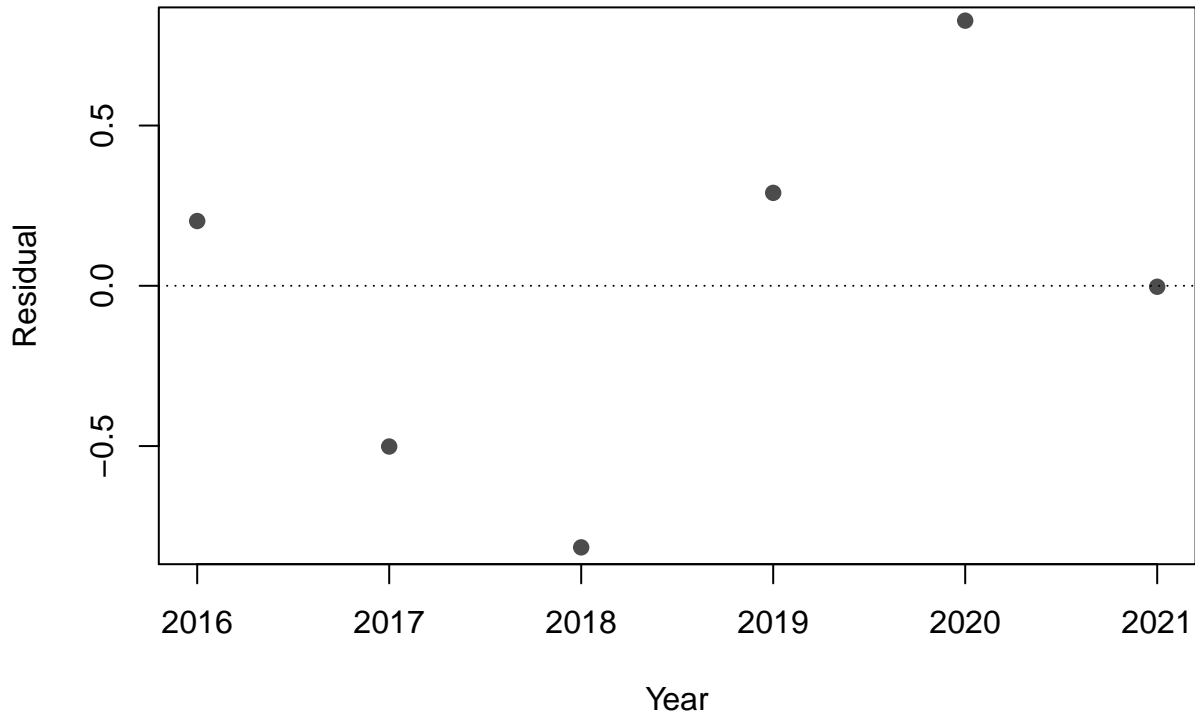
2020

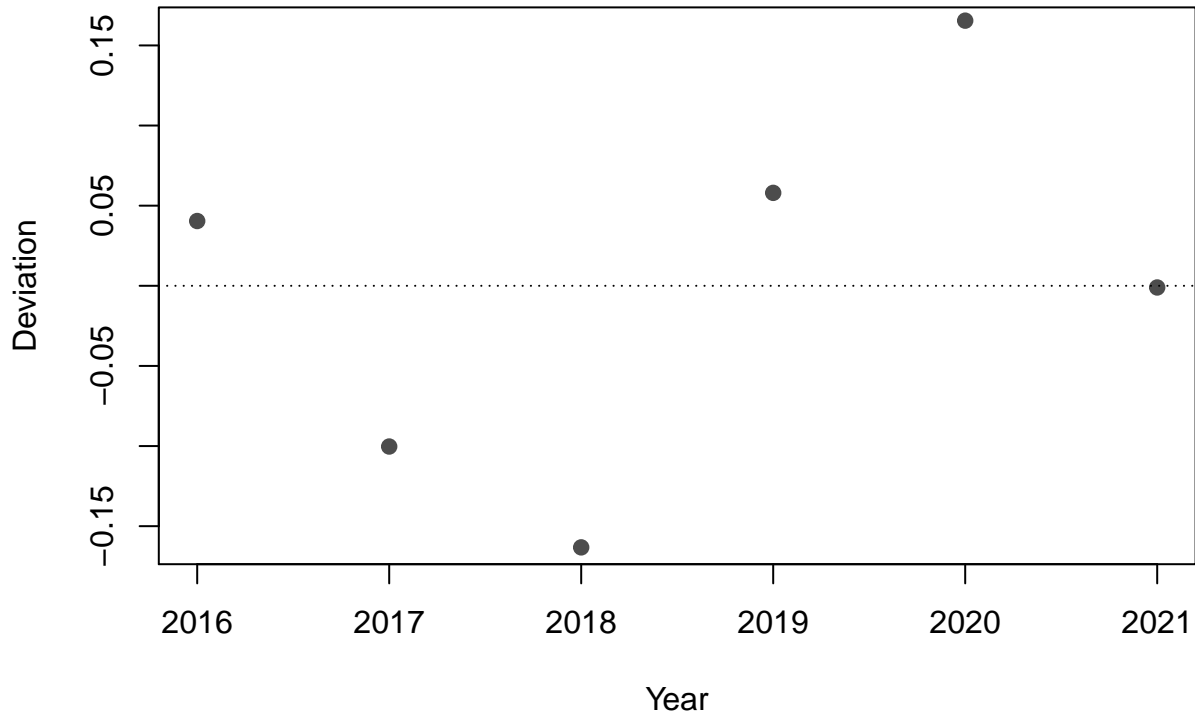
2021

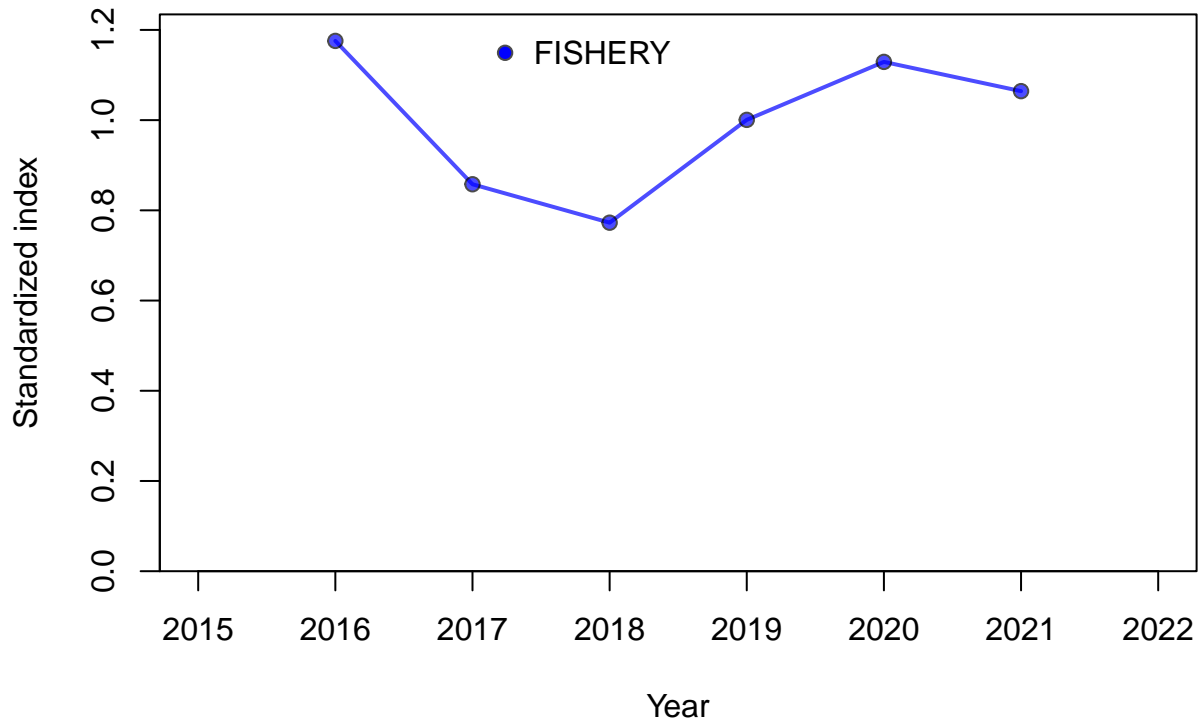
Year

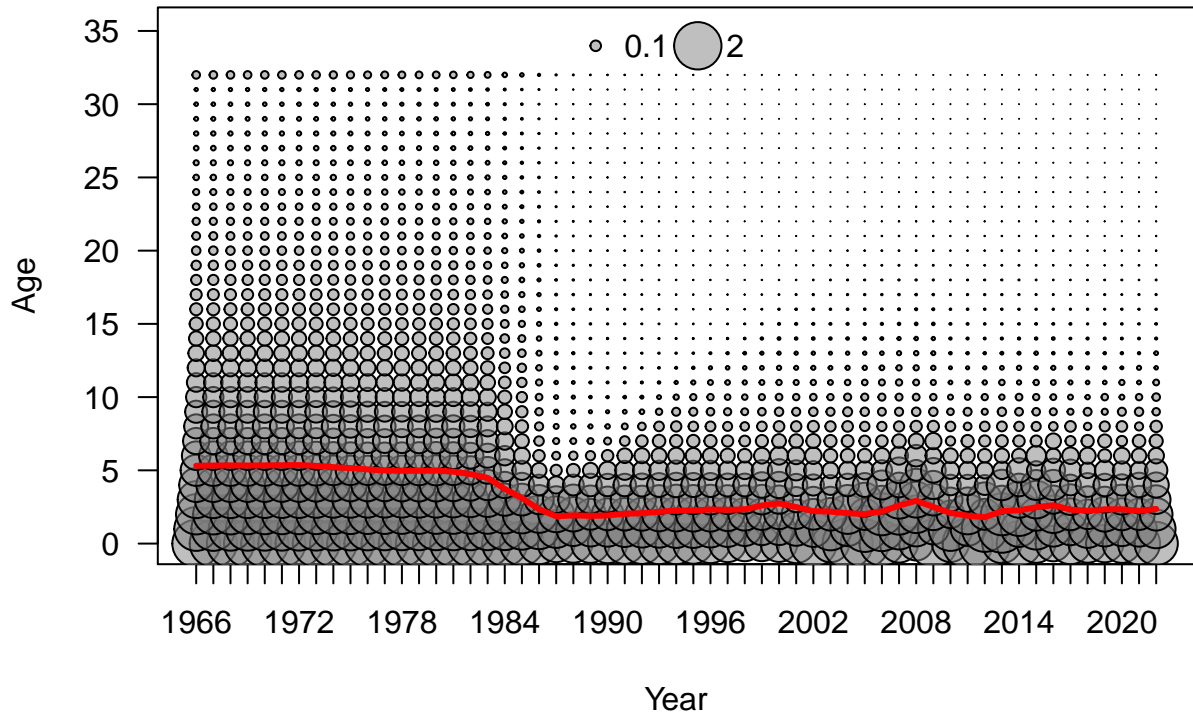




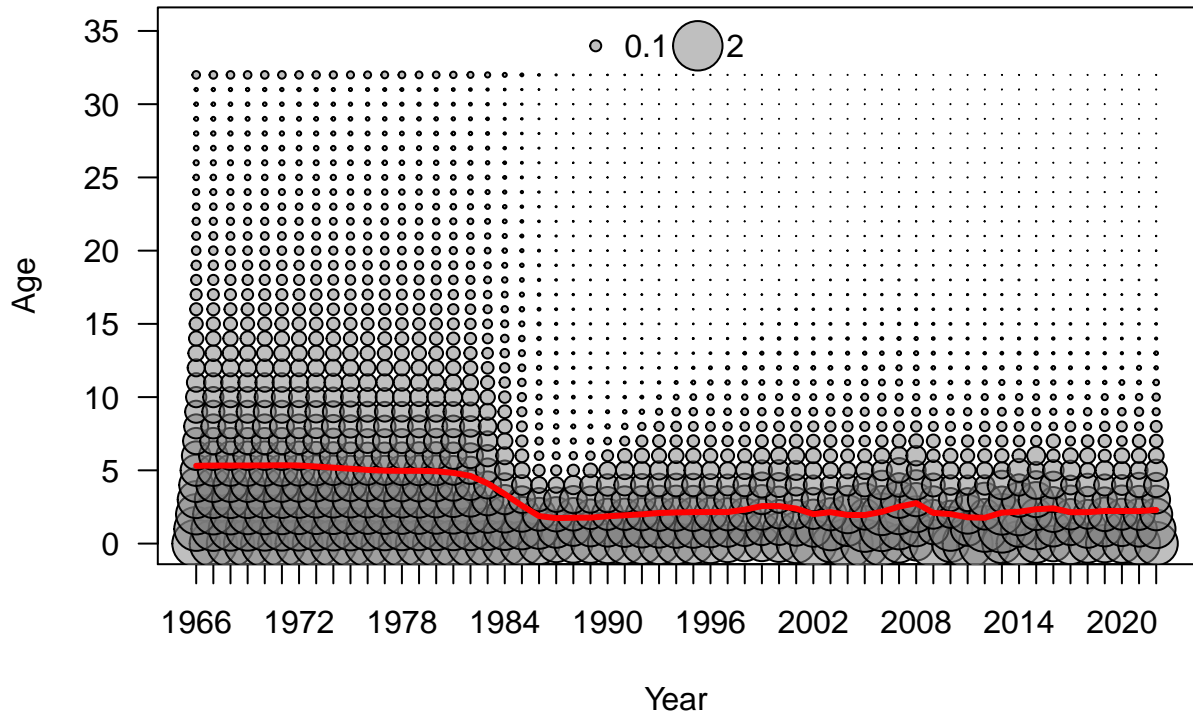


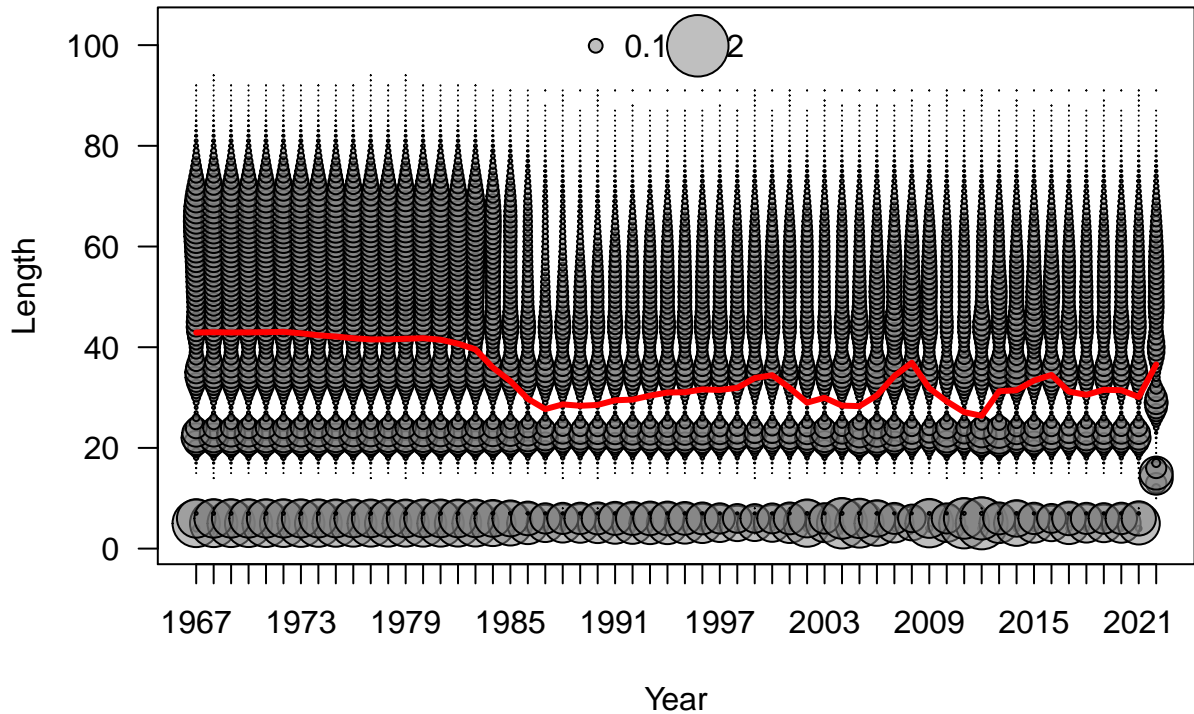


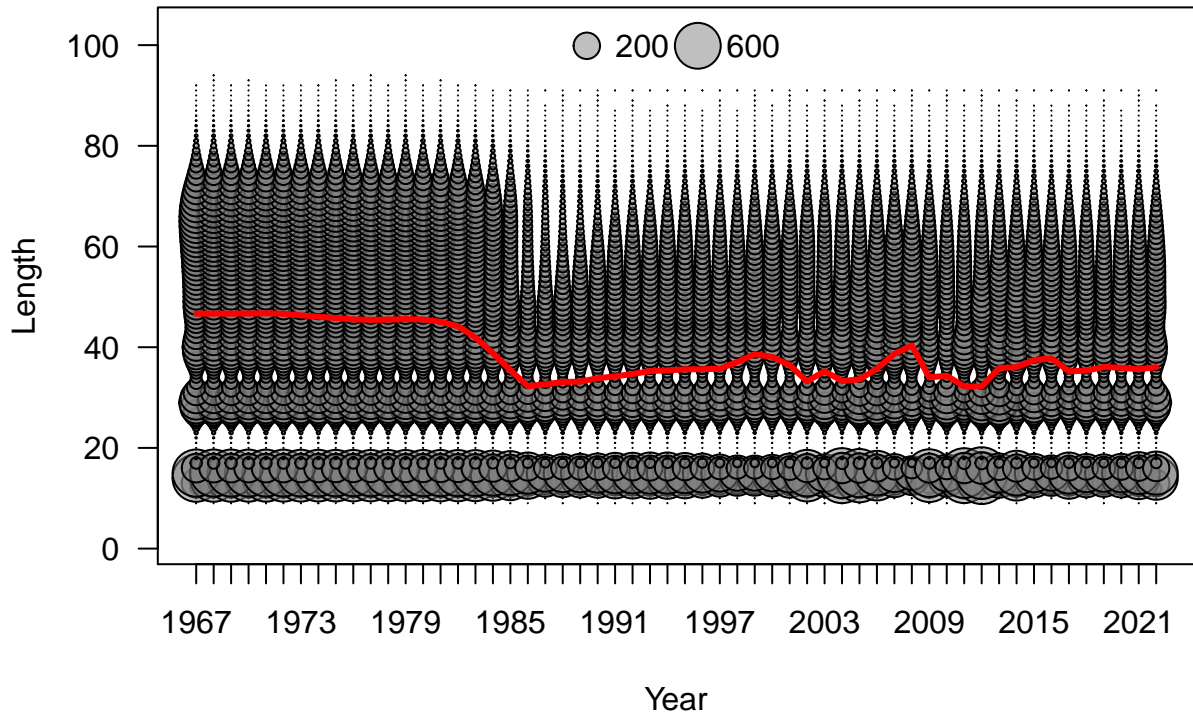


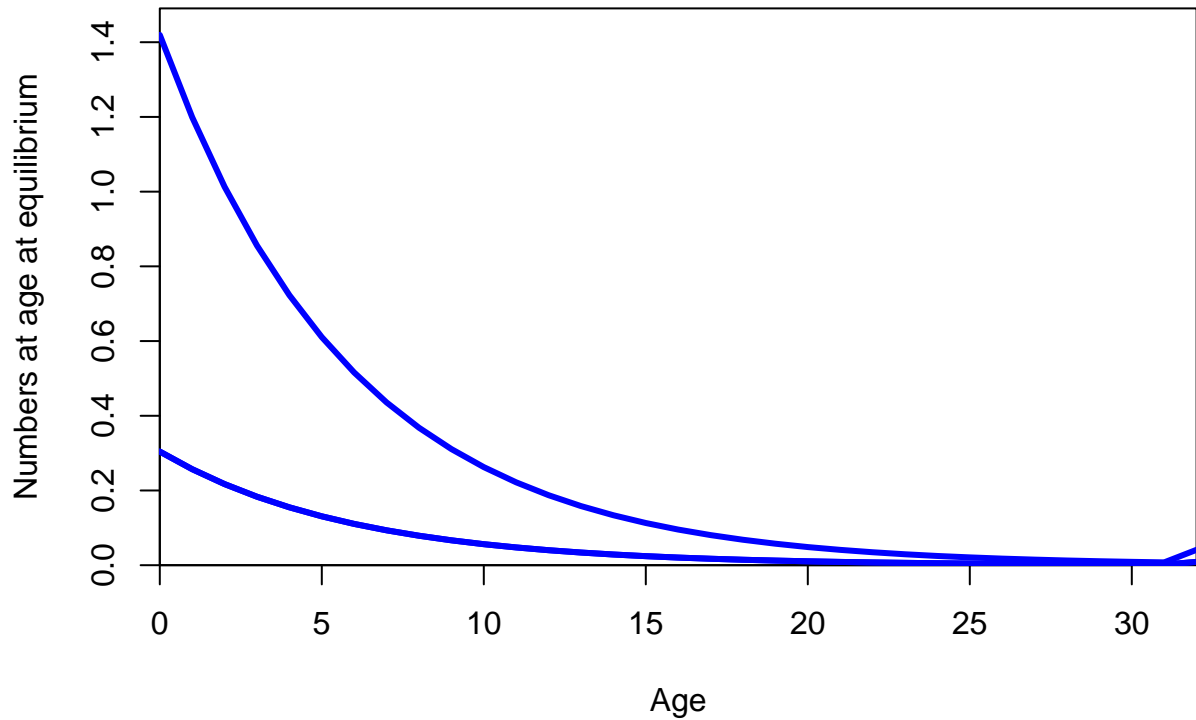


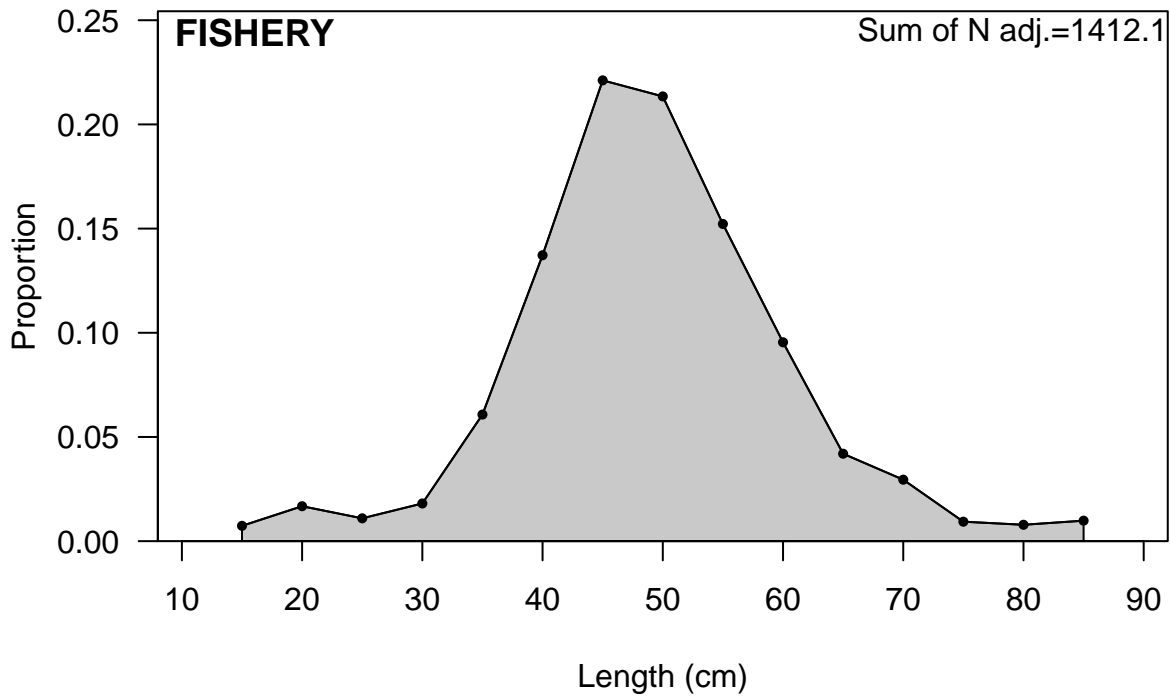


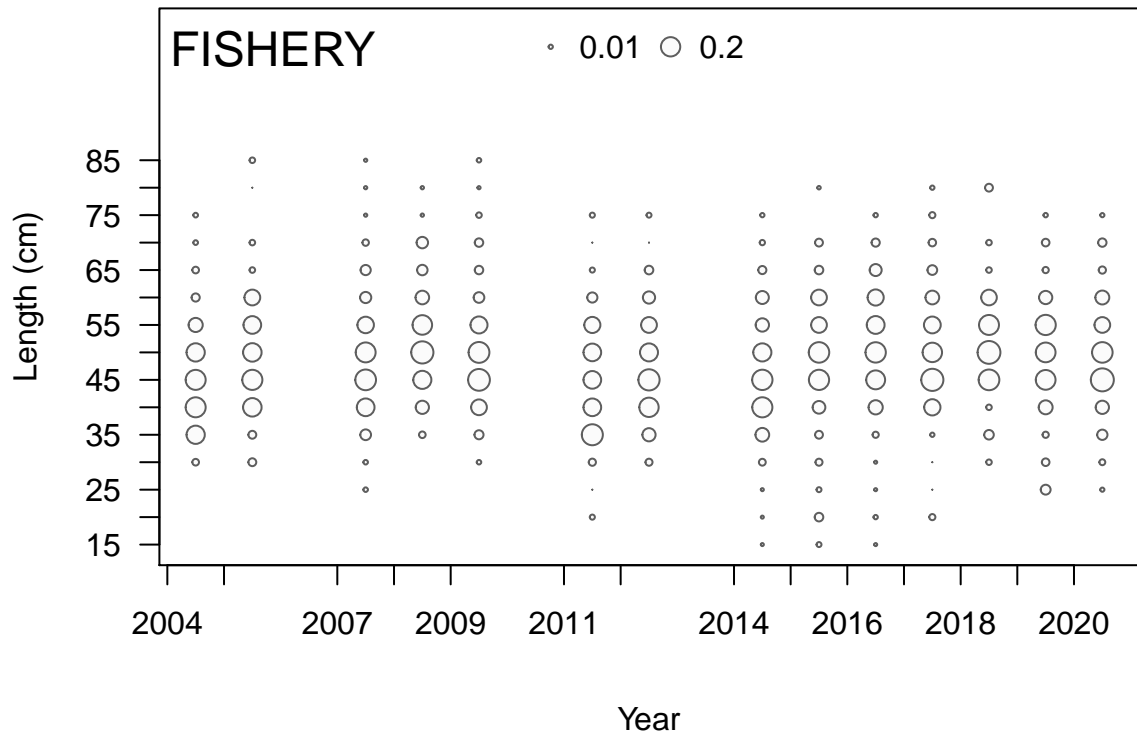




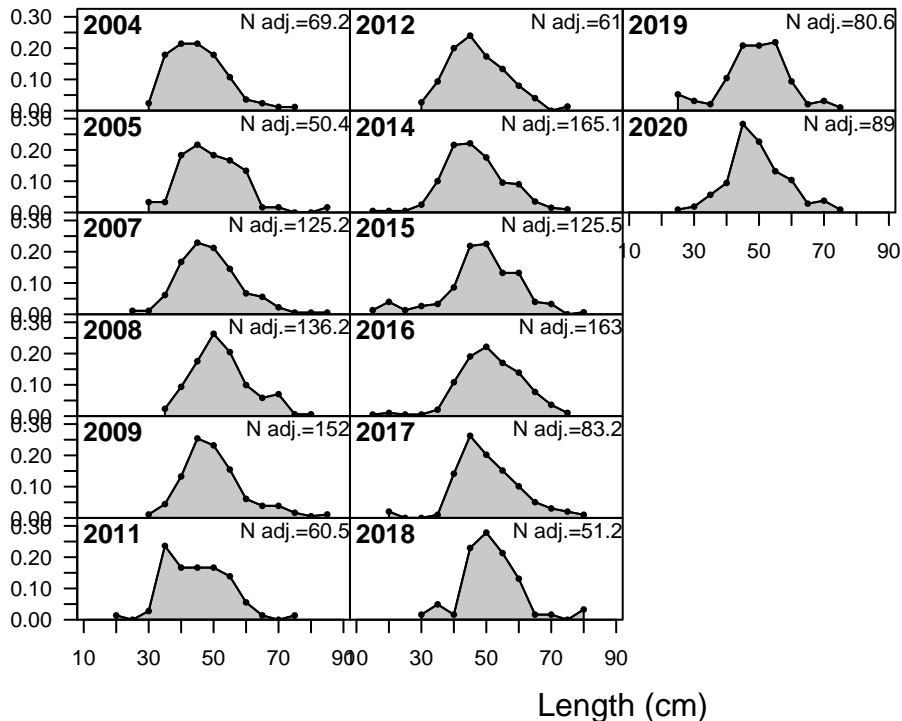


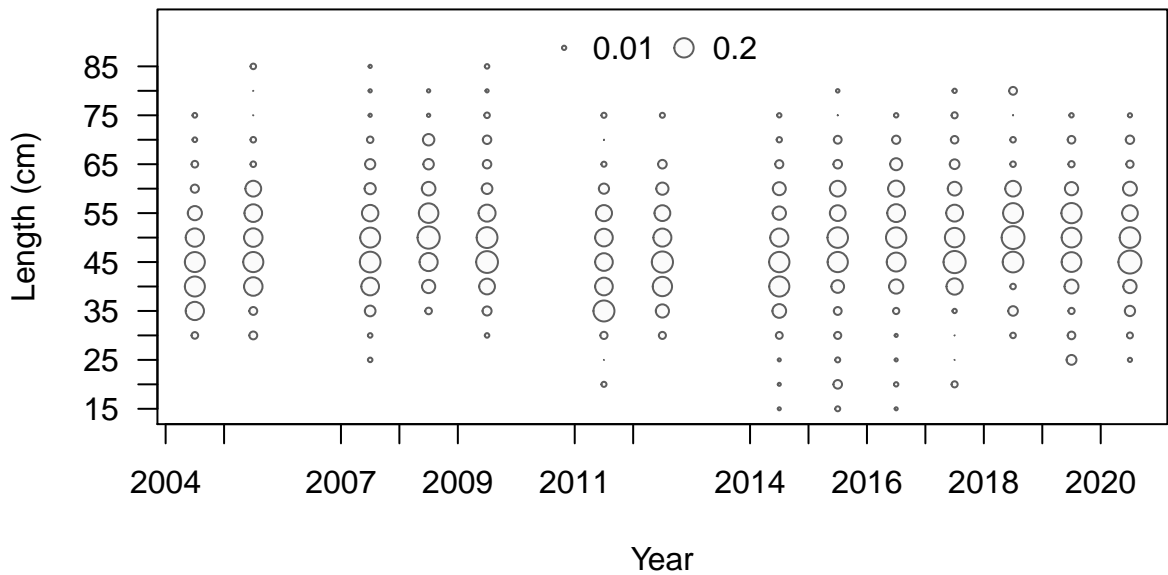






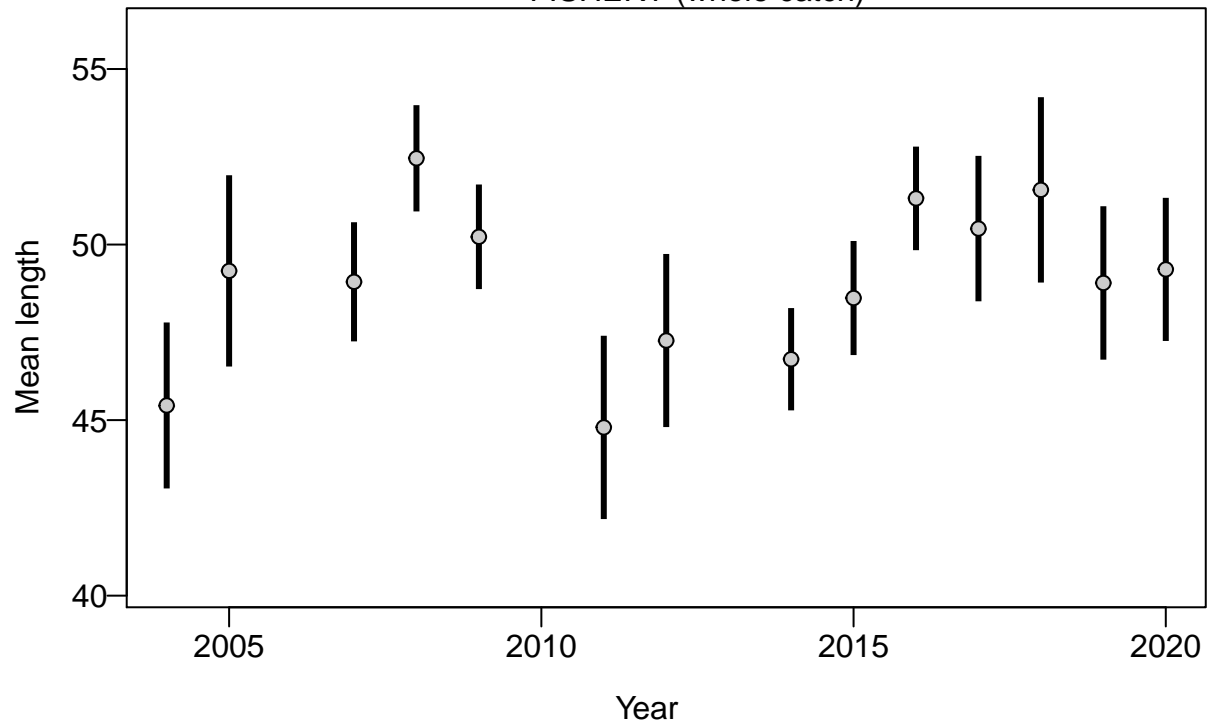
Proportion

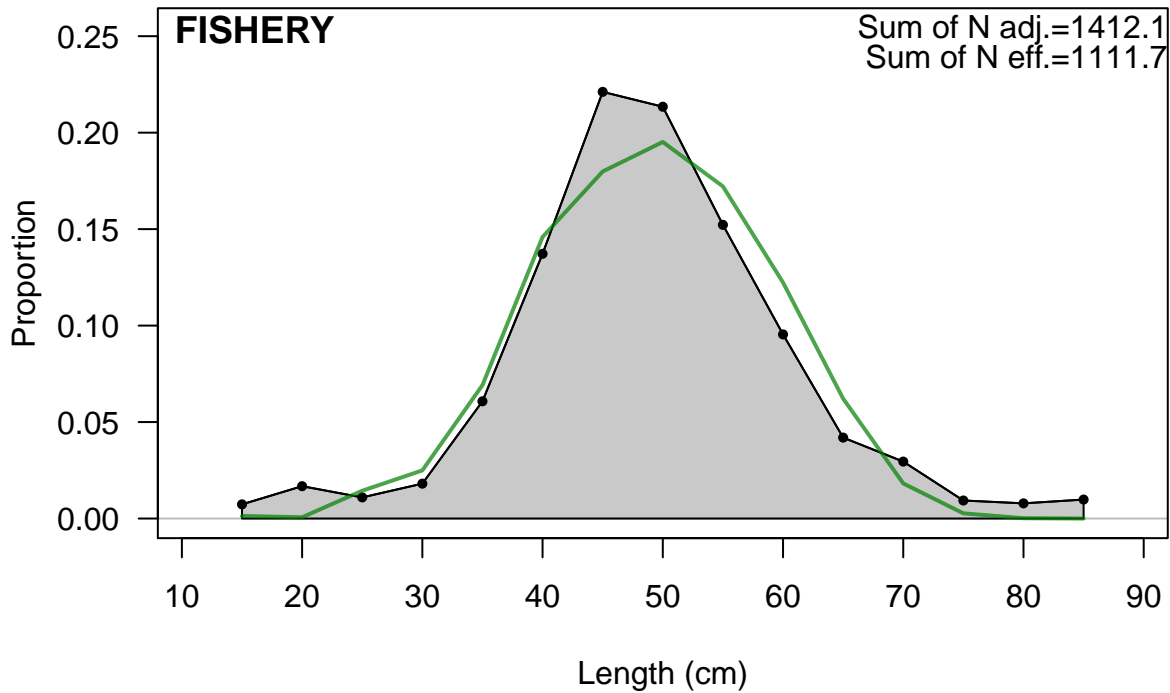


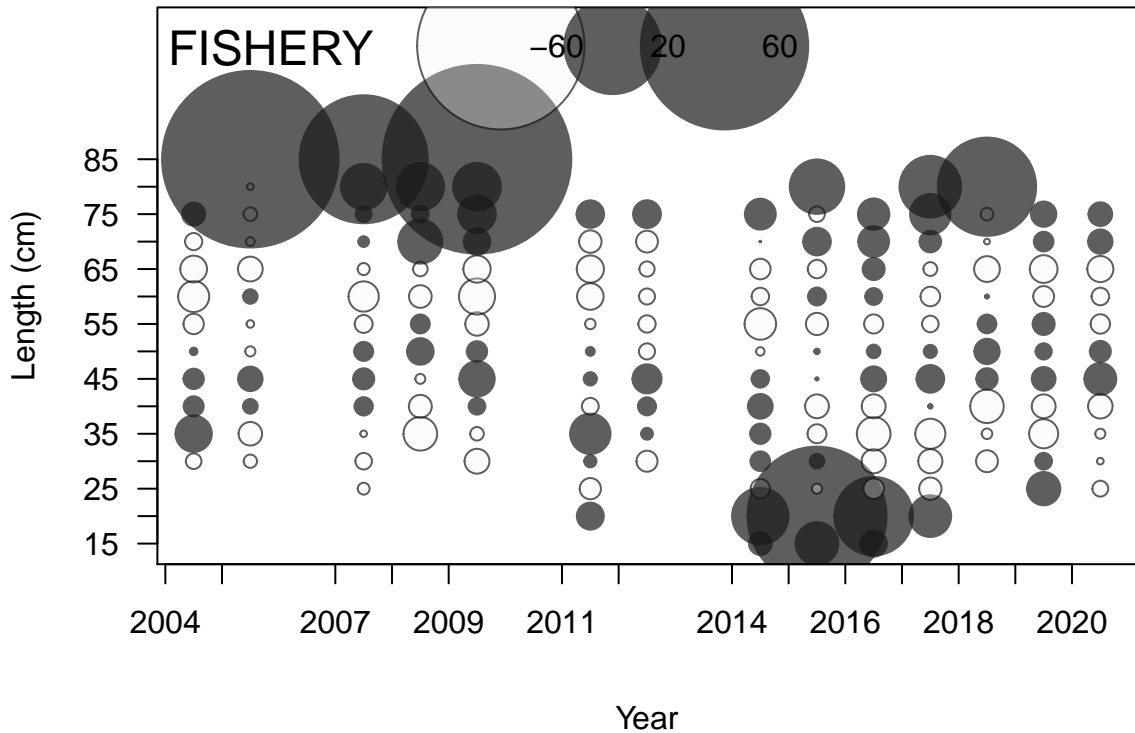




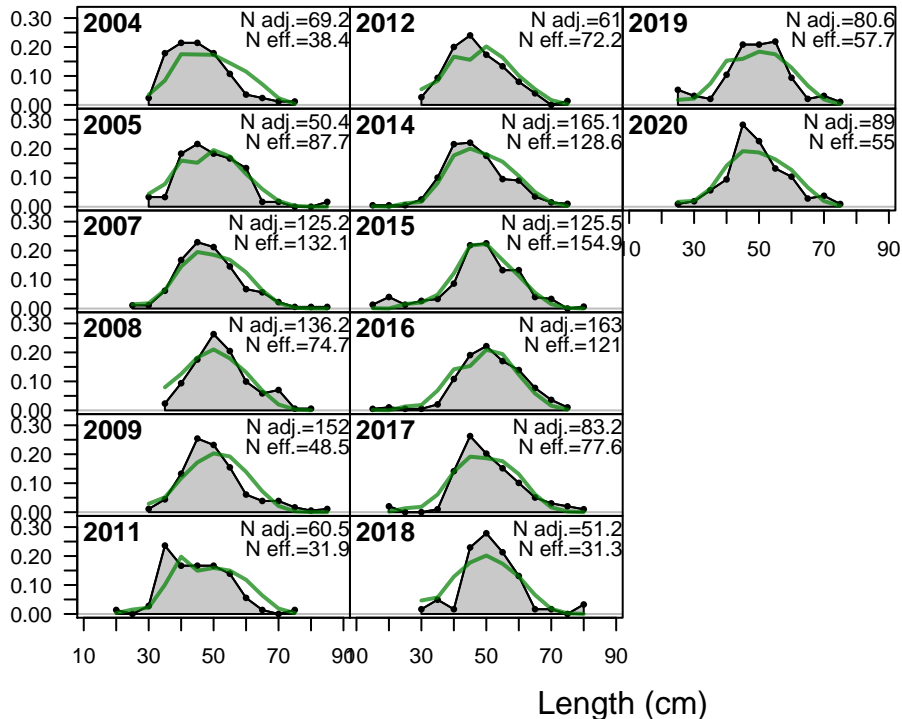
FISHERY (whole catch)

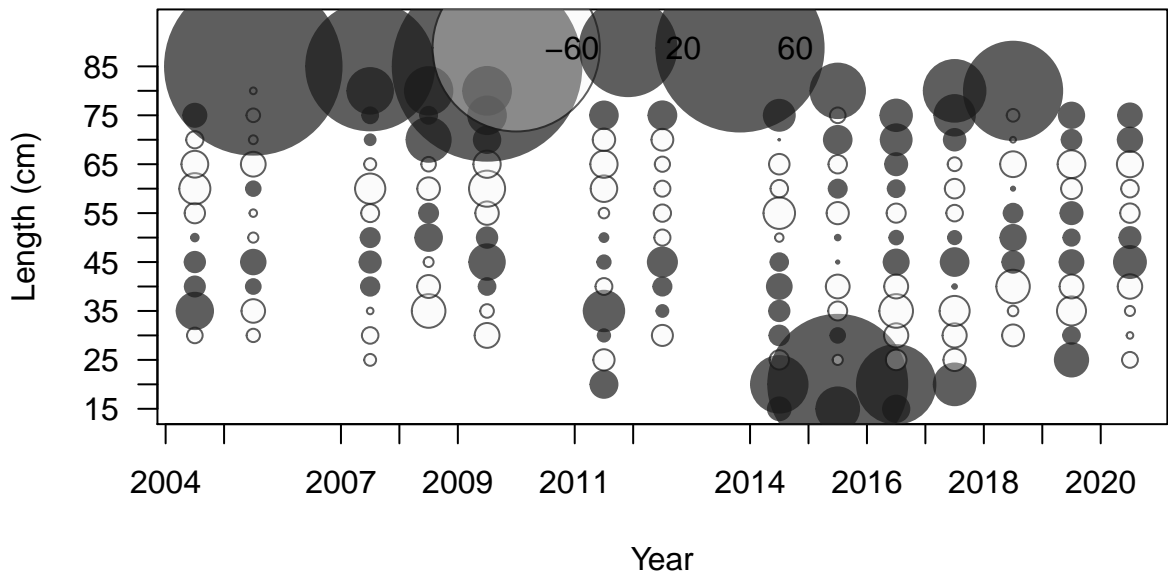




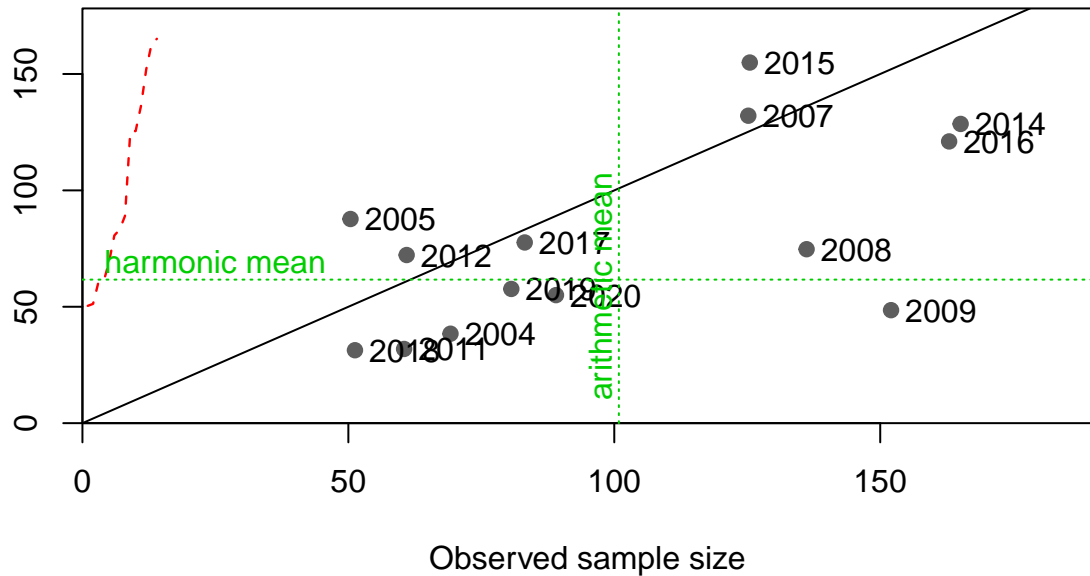


Proportion

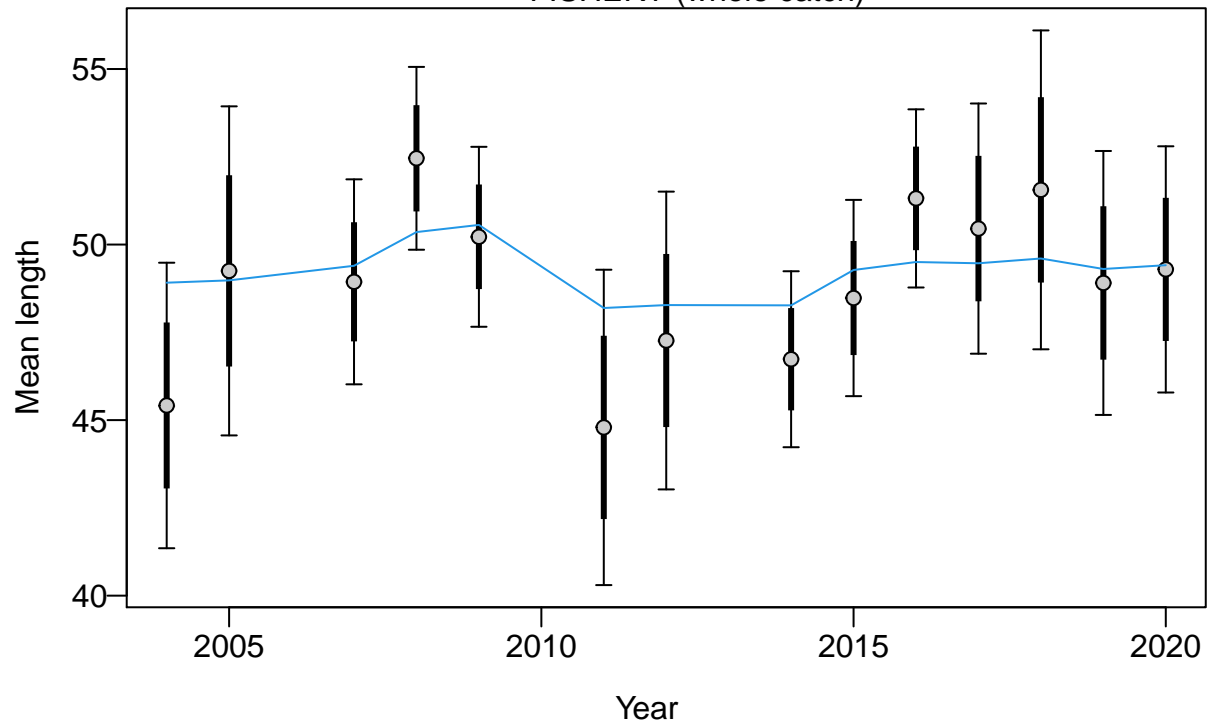


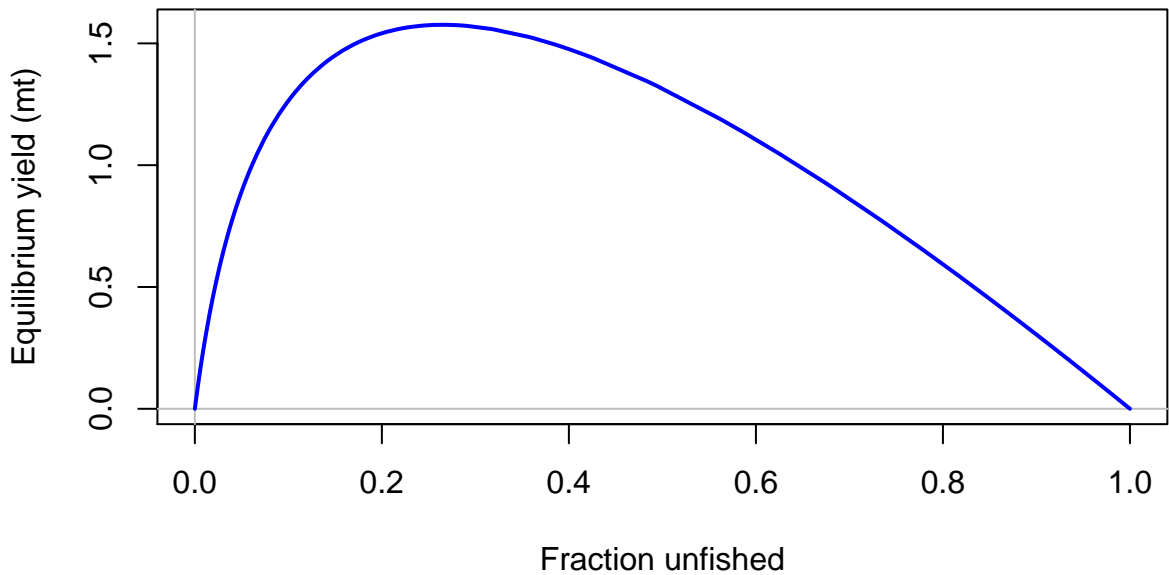


Effective sample size

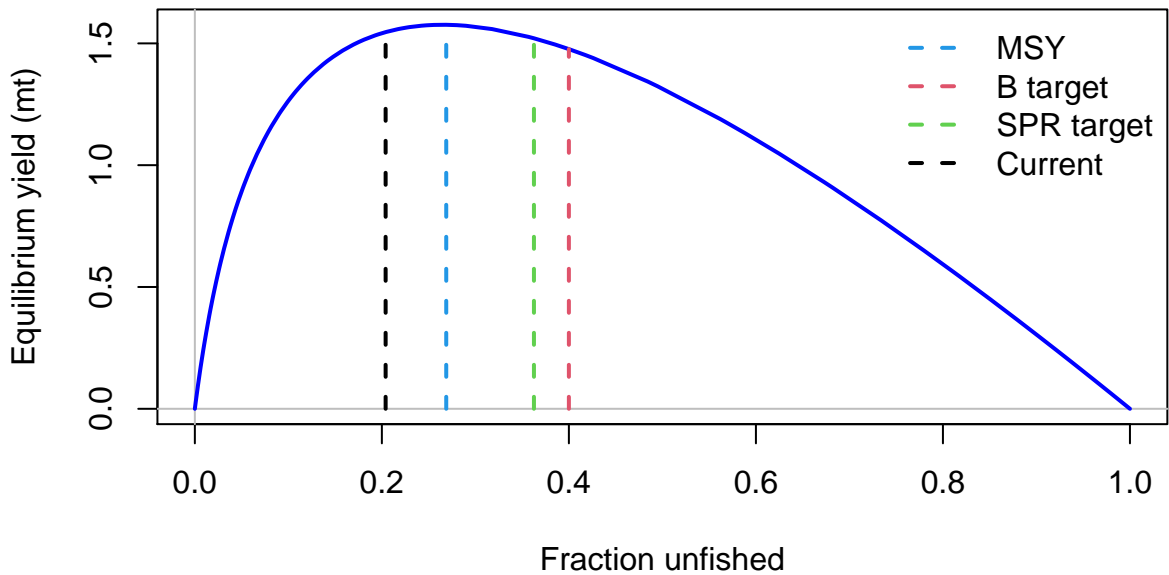


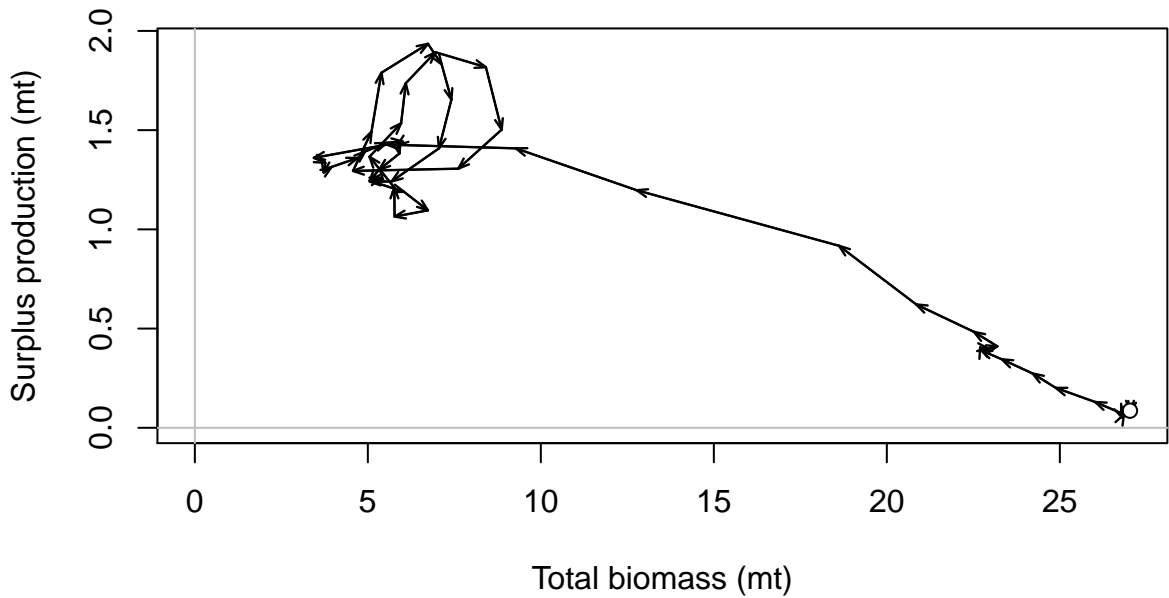
FISHERY (whole catch)

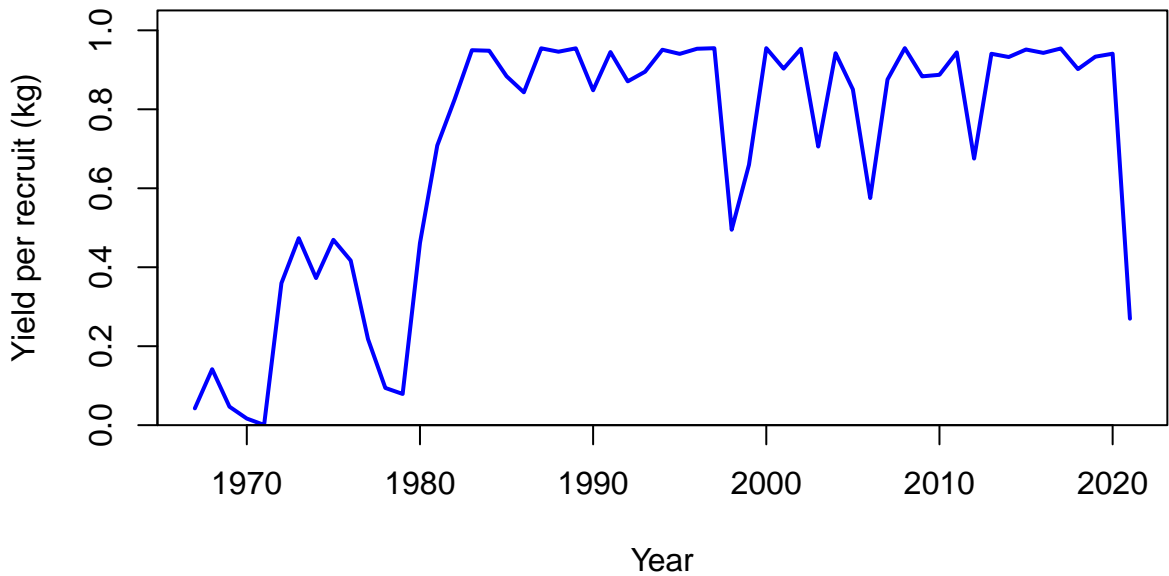


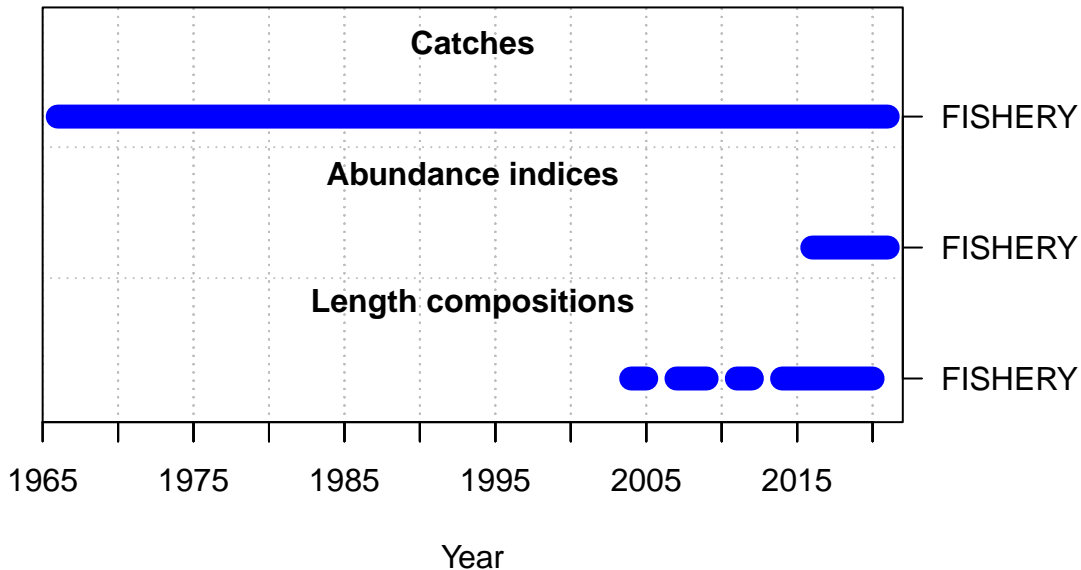


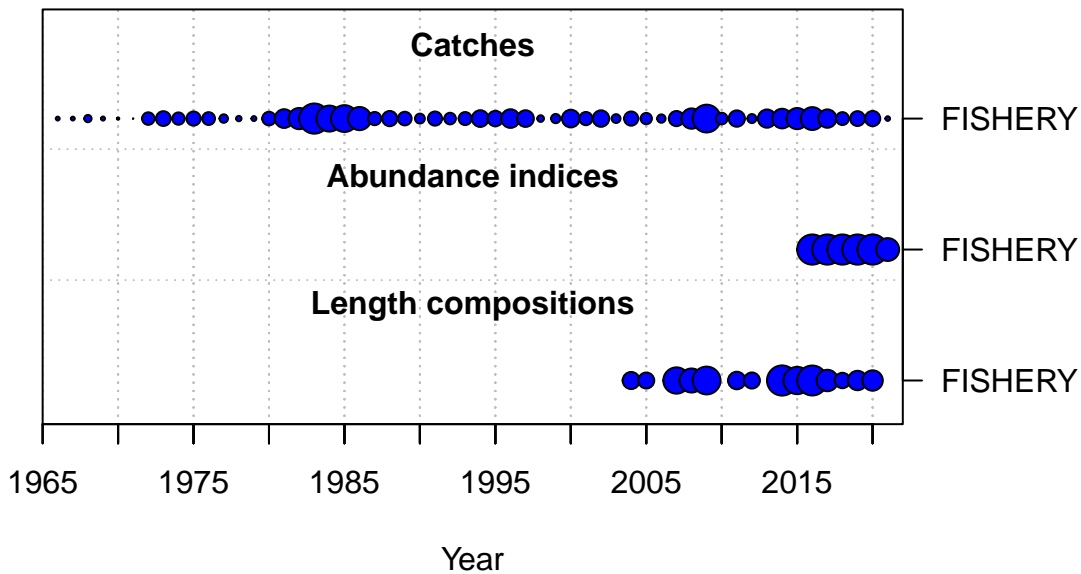




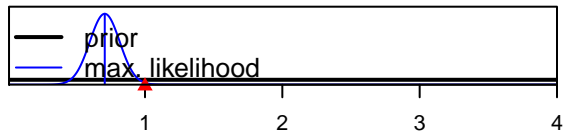




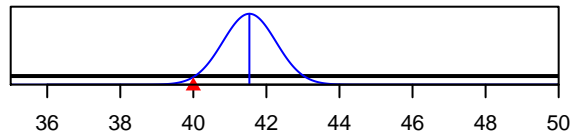




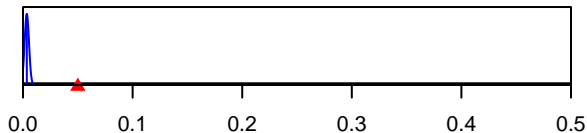
SR\_LN(R0)



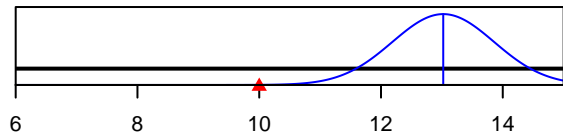
Size\_inflection\_FISHERY(1)



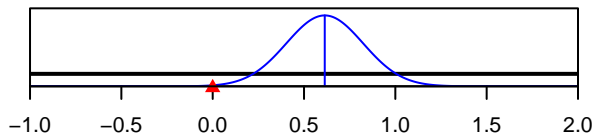
InitF\_seas\_1\_flt\_1FISHERY



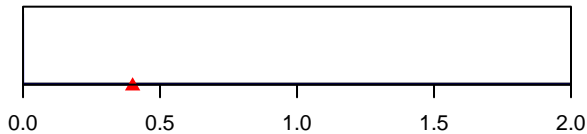
Size\_95%width\_FISHERY(1)



LnQ\_base\_FISHERY(1)



Q\_extraSD\_FISHERY(1)



Parameter value