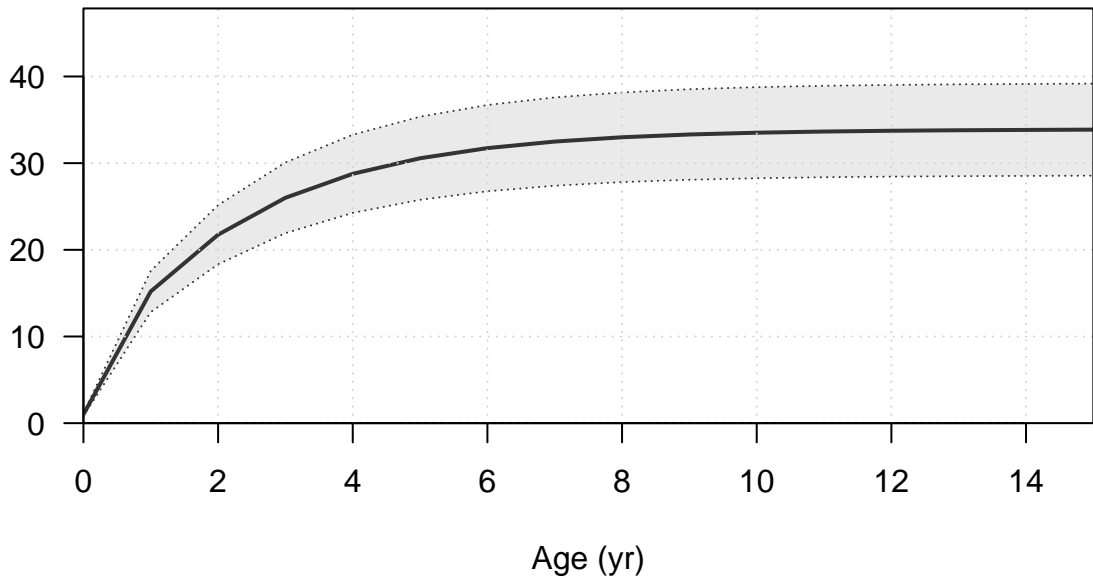
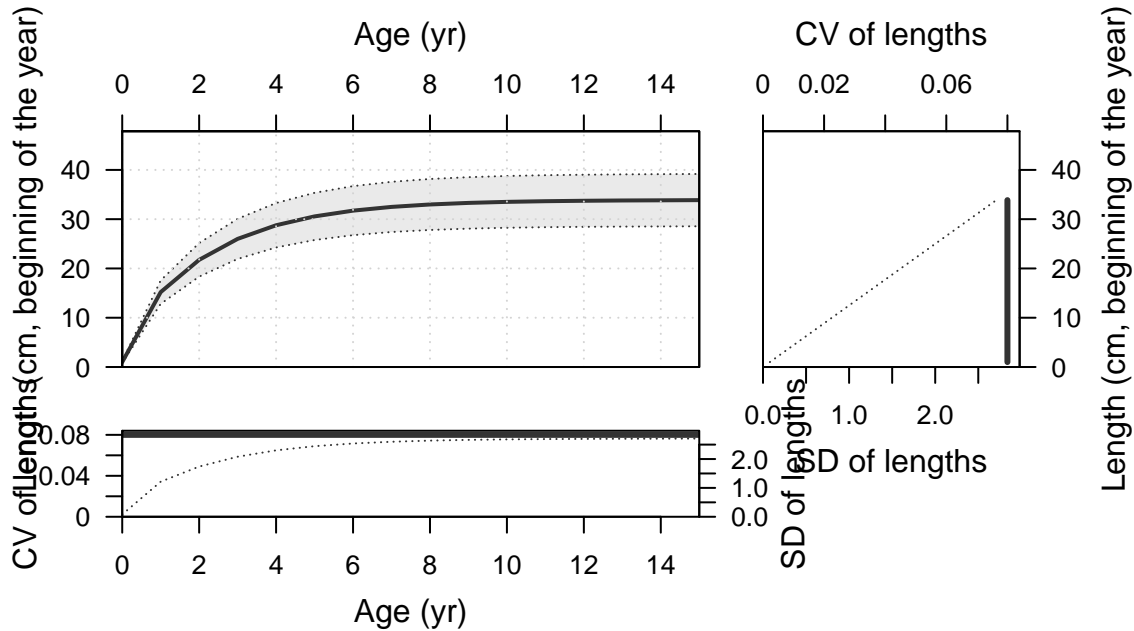
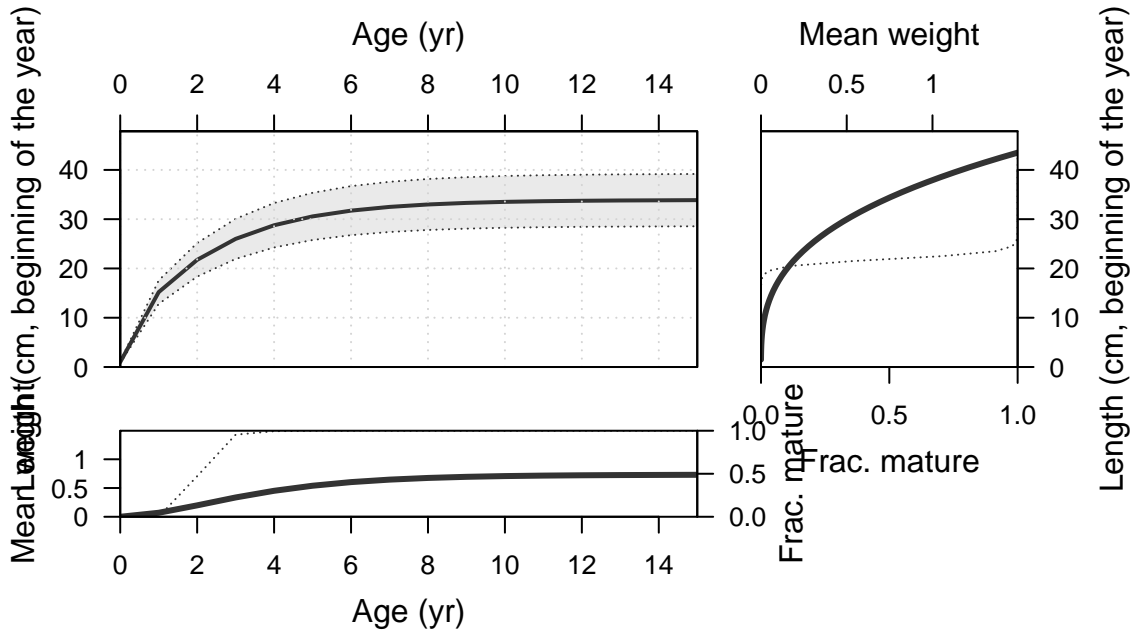


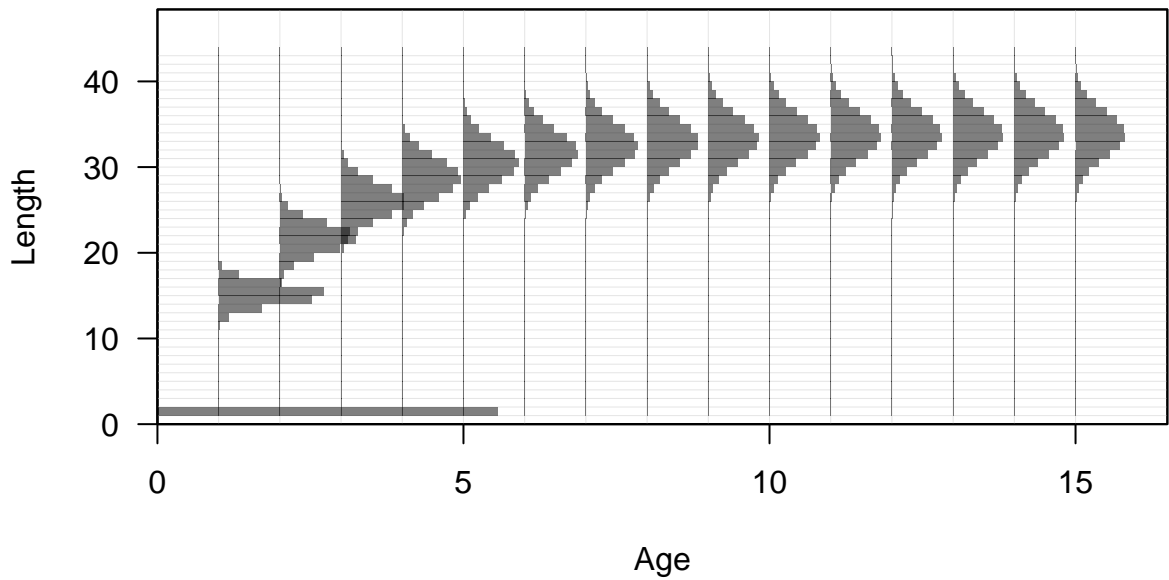
Plots created using the 'r4ss' package in R  
Stock Synthesis version: 3.30.19.0  
StartTime: Mon Aug 01 08:40:31 2022  
Data\_File: data.ss  
Control\_File: control.ss

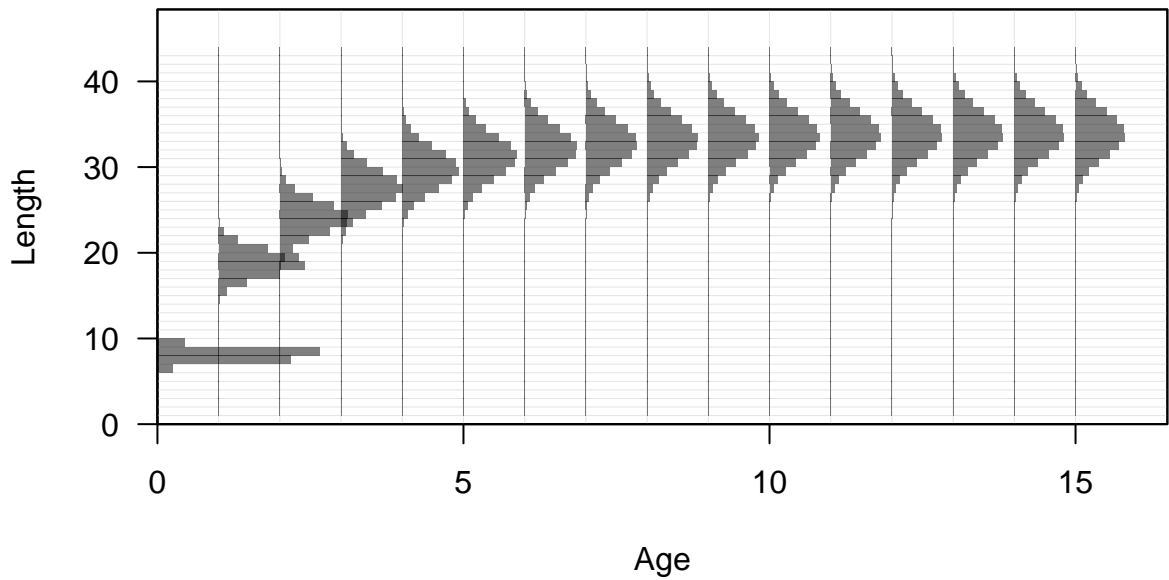
Length (cm, beginning of the year)







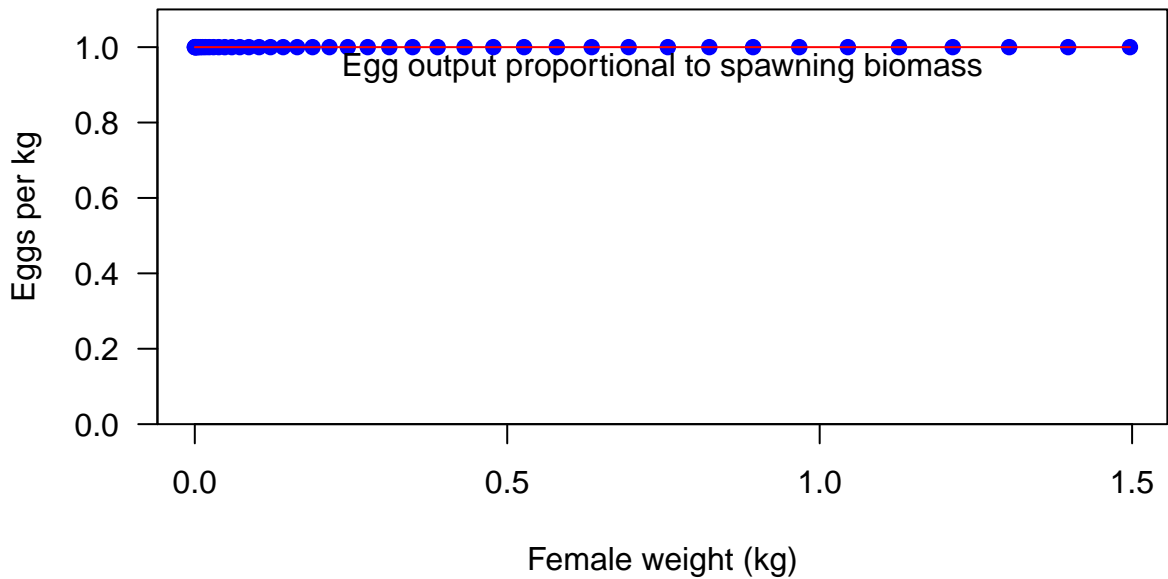






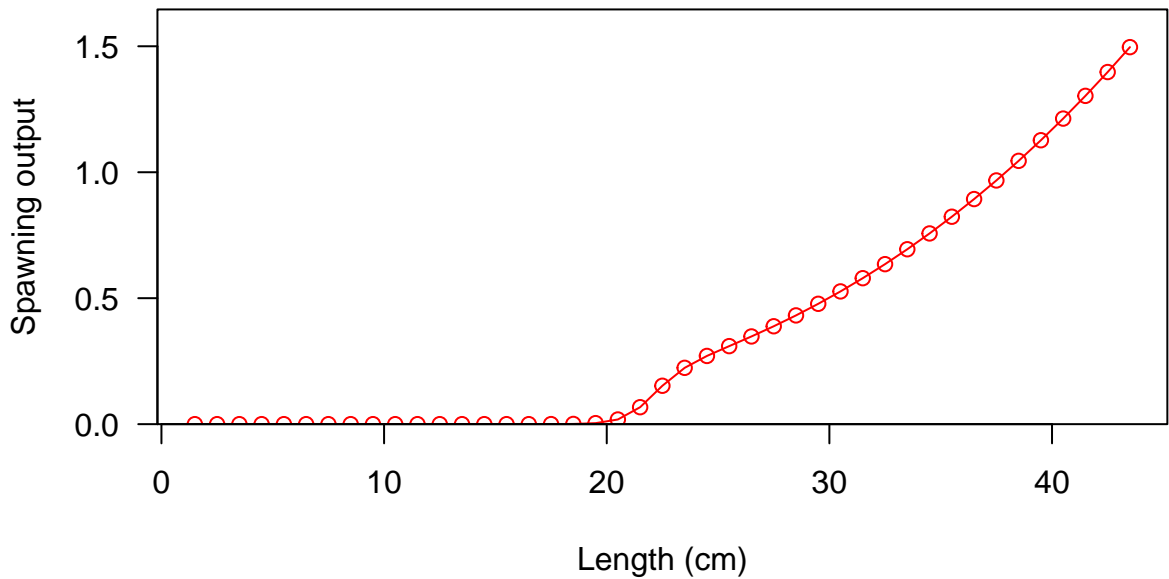


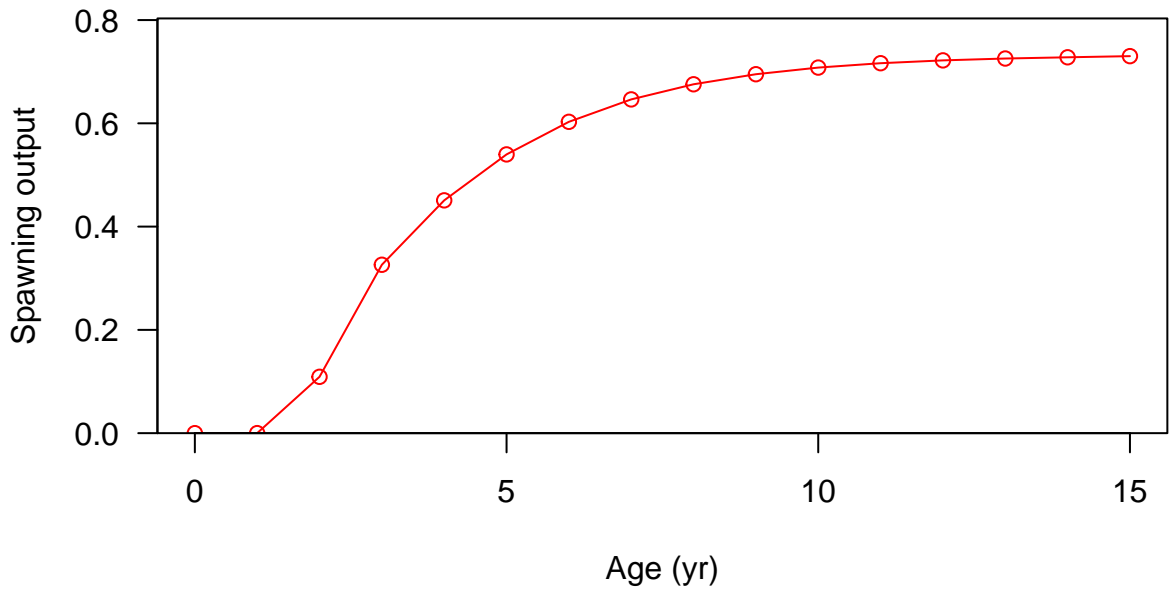


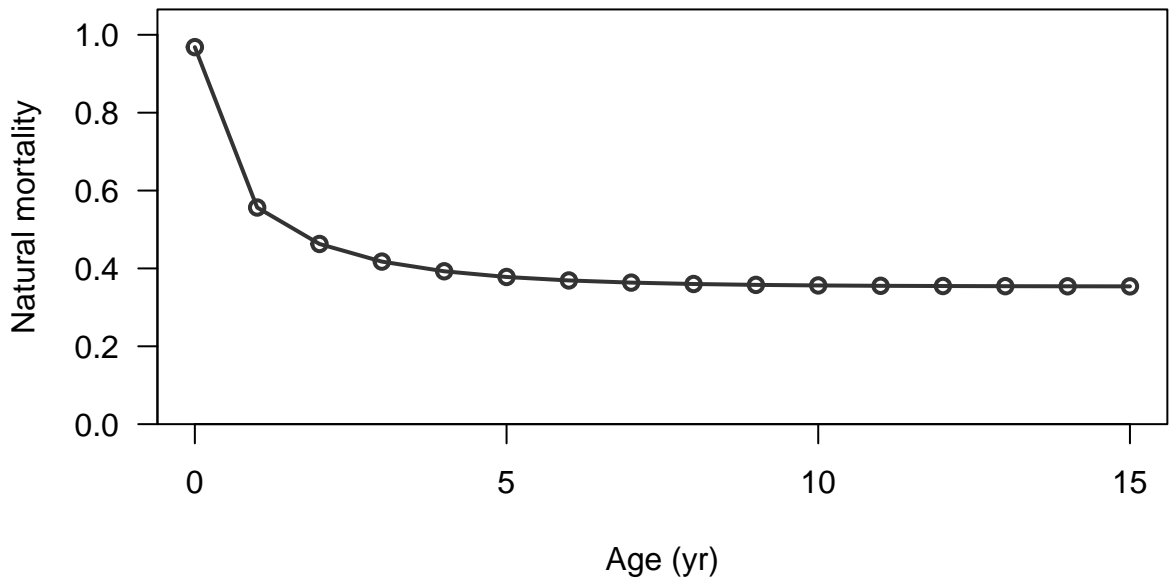




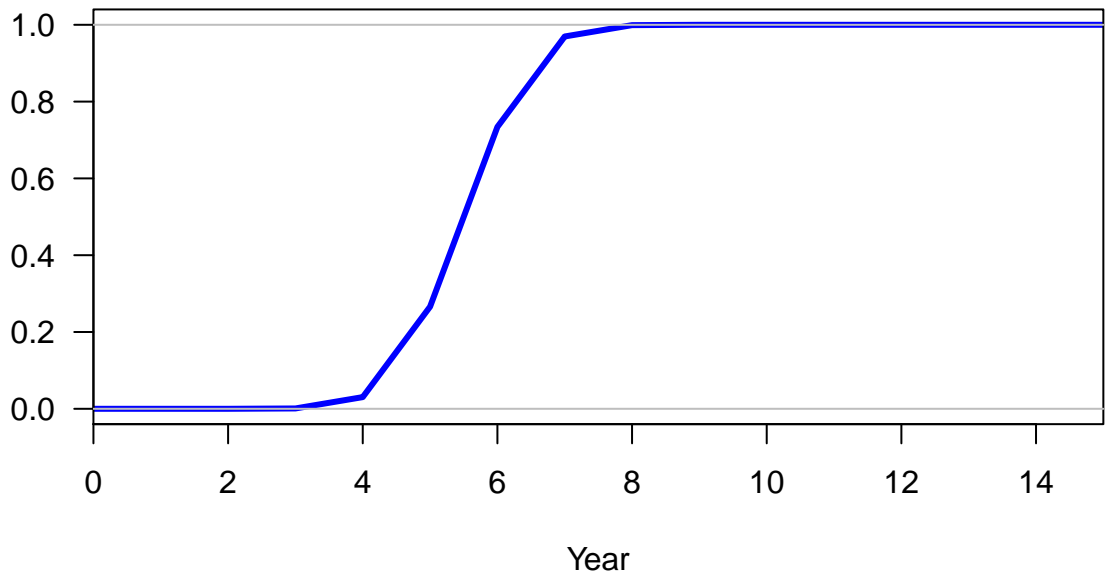




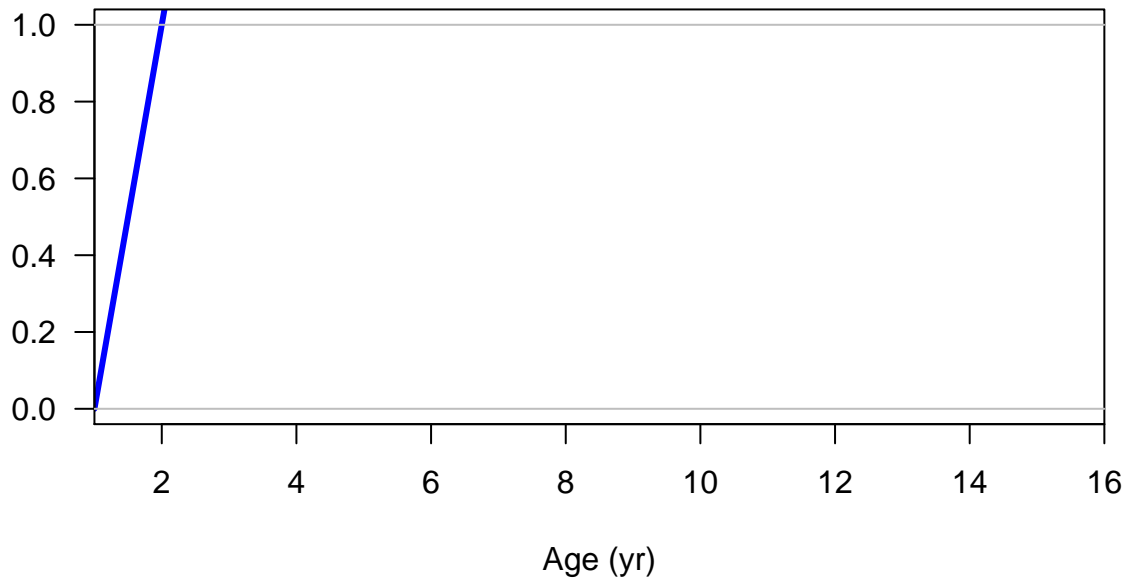




Hermaphroditism transition rate

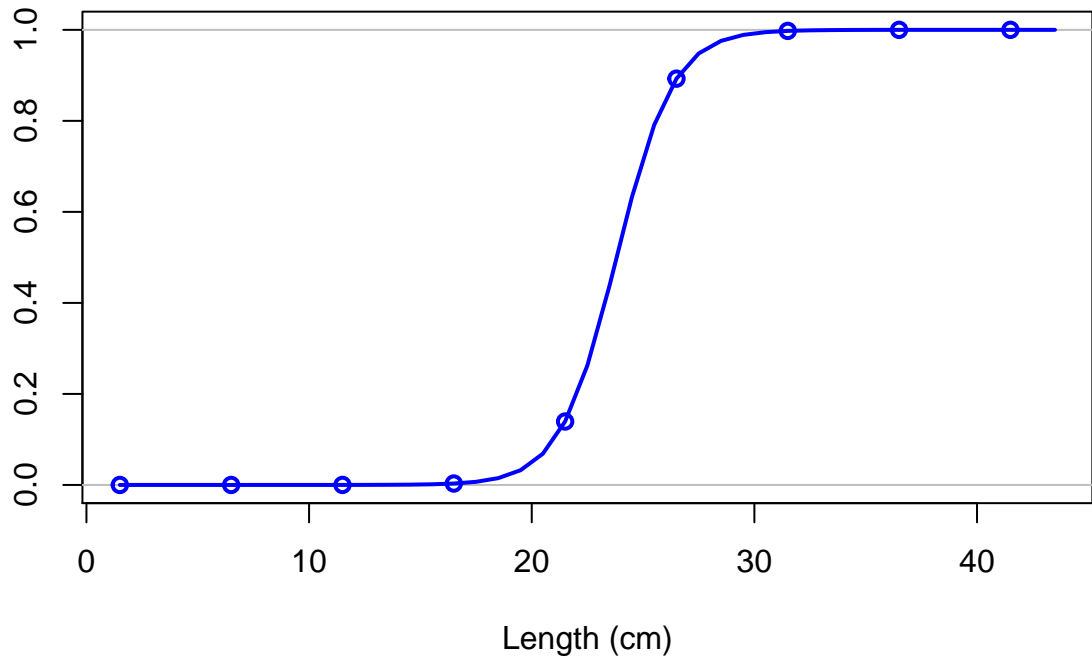


Fraction females by age at equilibrium

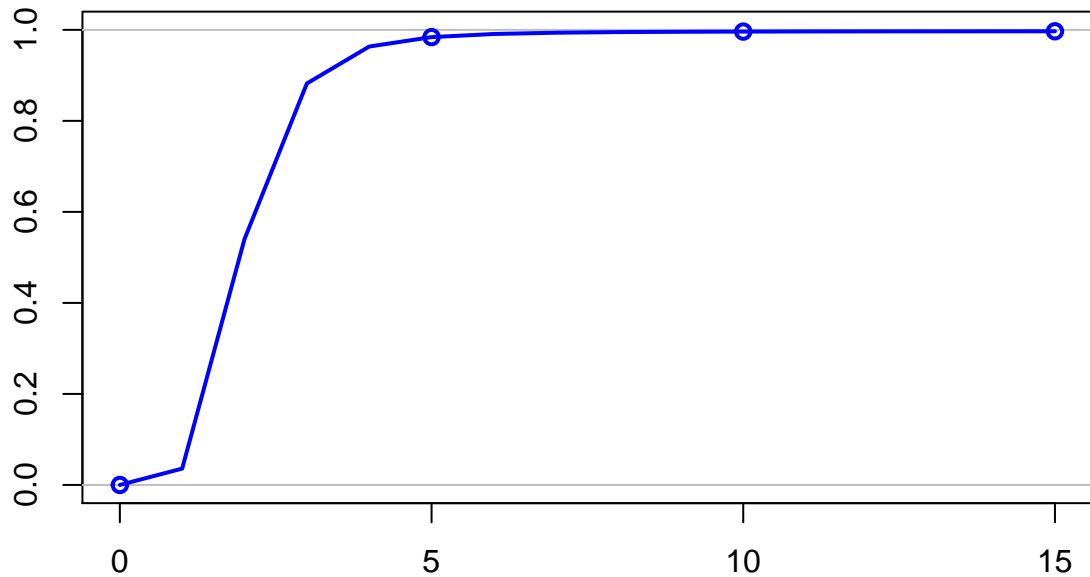




Selectivity

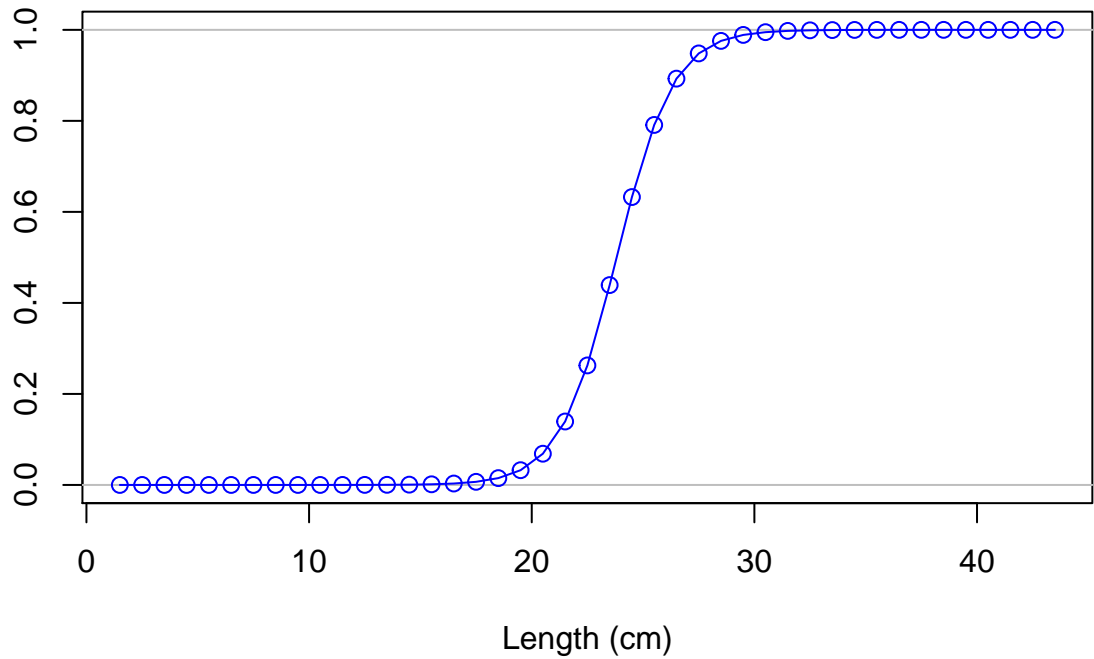


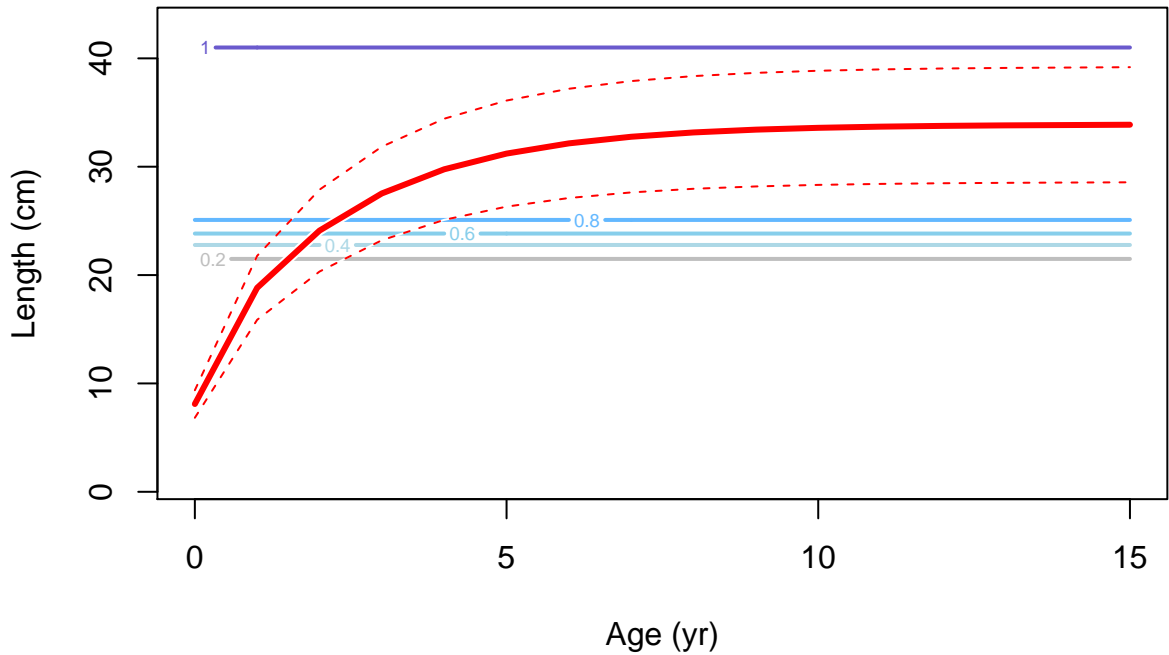
Selectivity



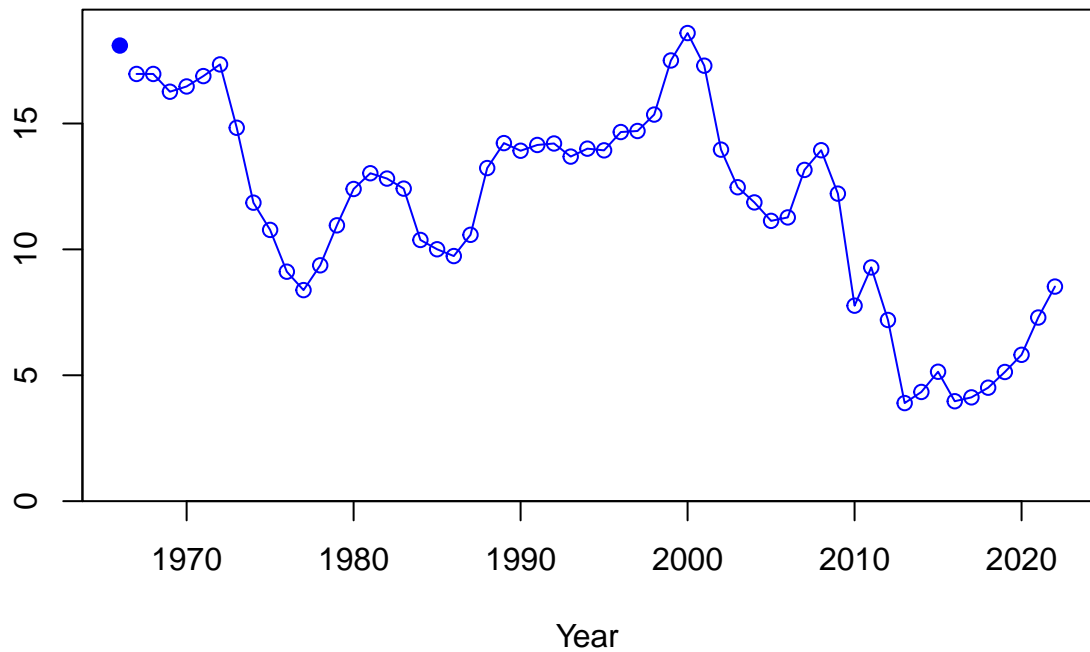
Age (yr)

Selectivity

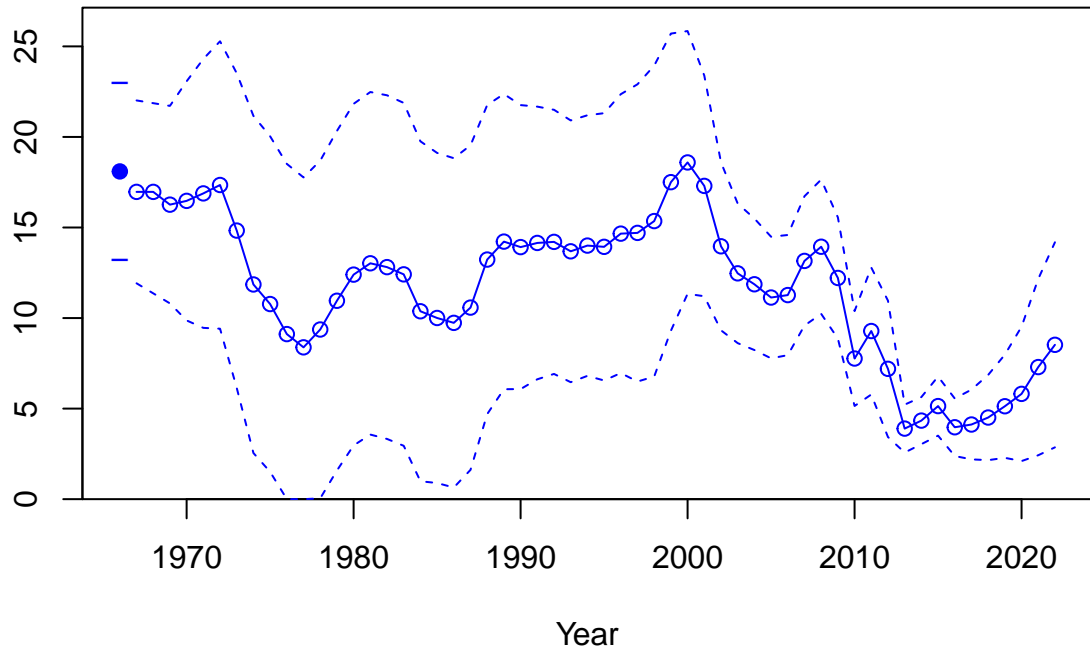




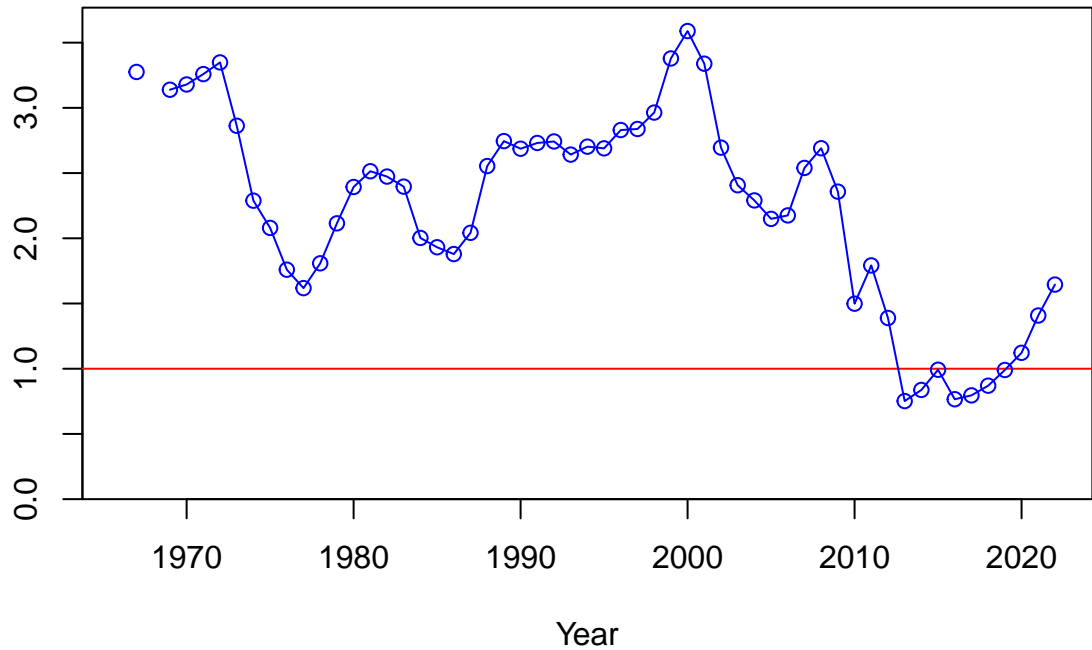
Spawning biomass (mt)



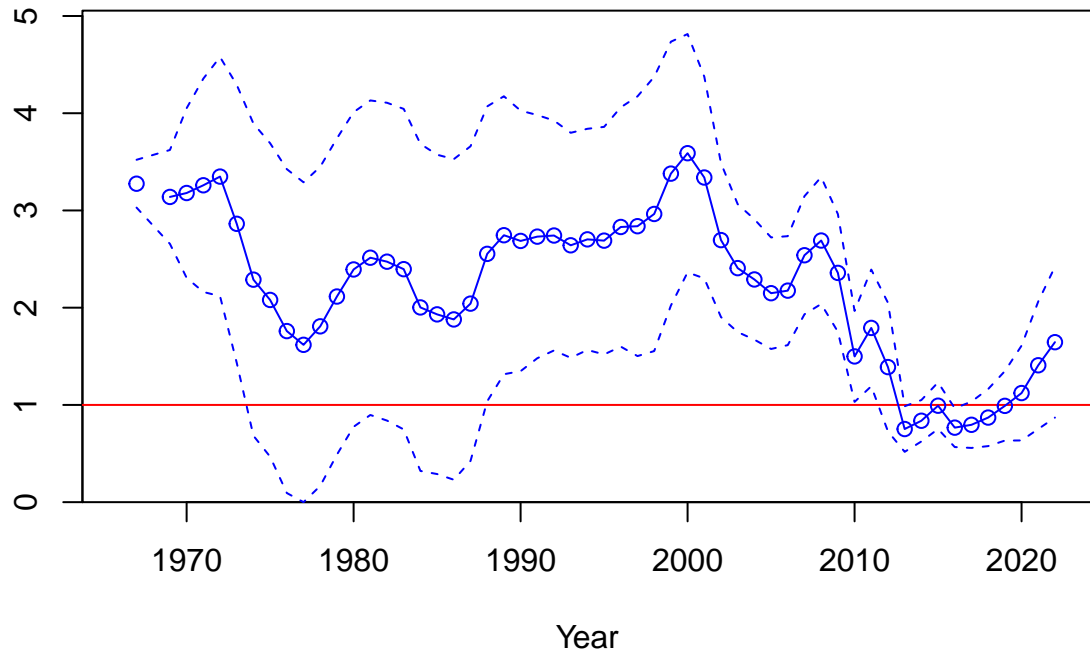
Spawning biomass (mt)



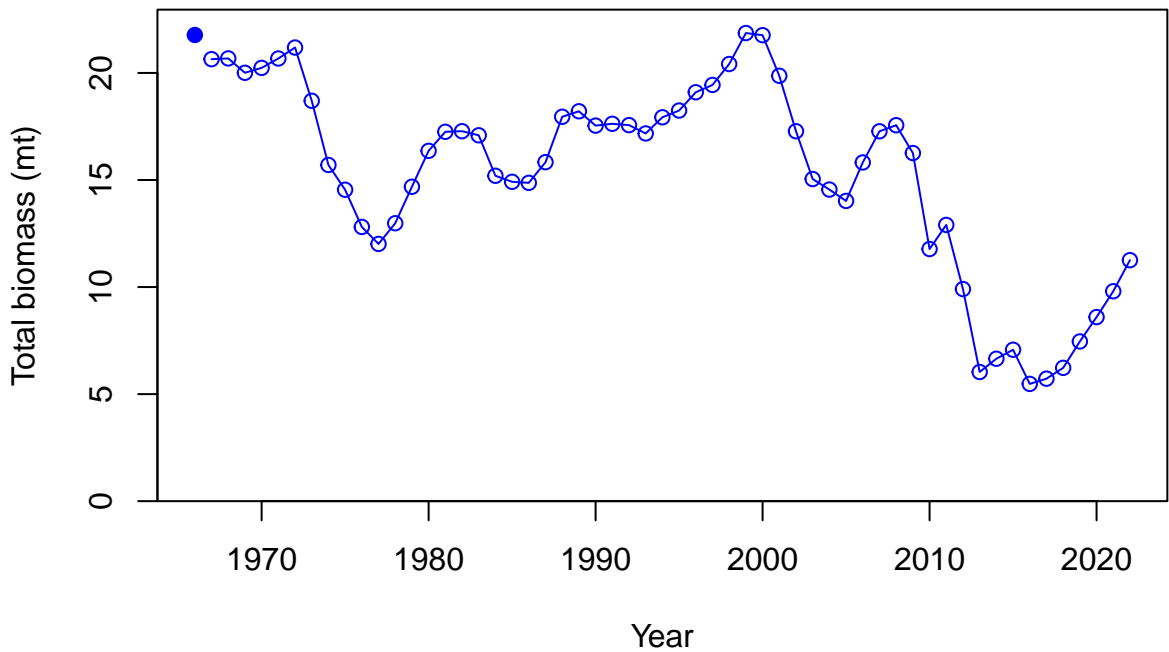
Relative spawning biomass:  $B/B_{MSY}$

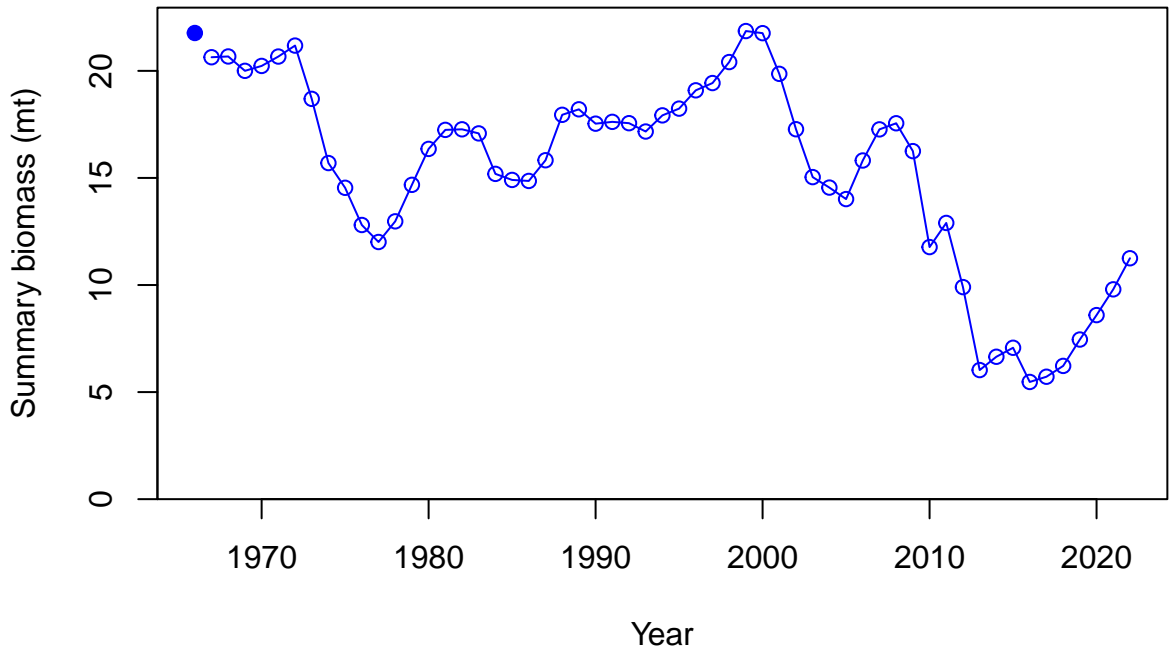


Relative spawning biomass:  $B/B_{MSY}$

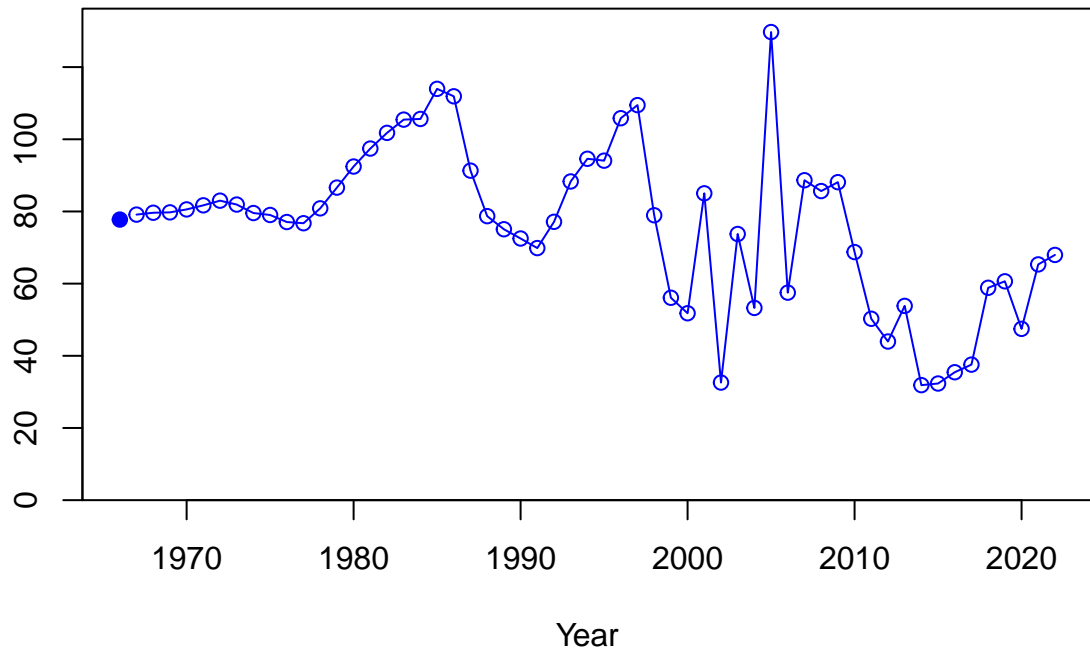




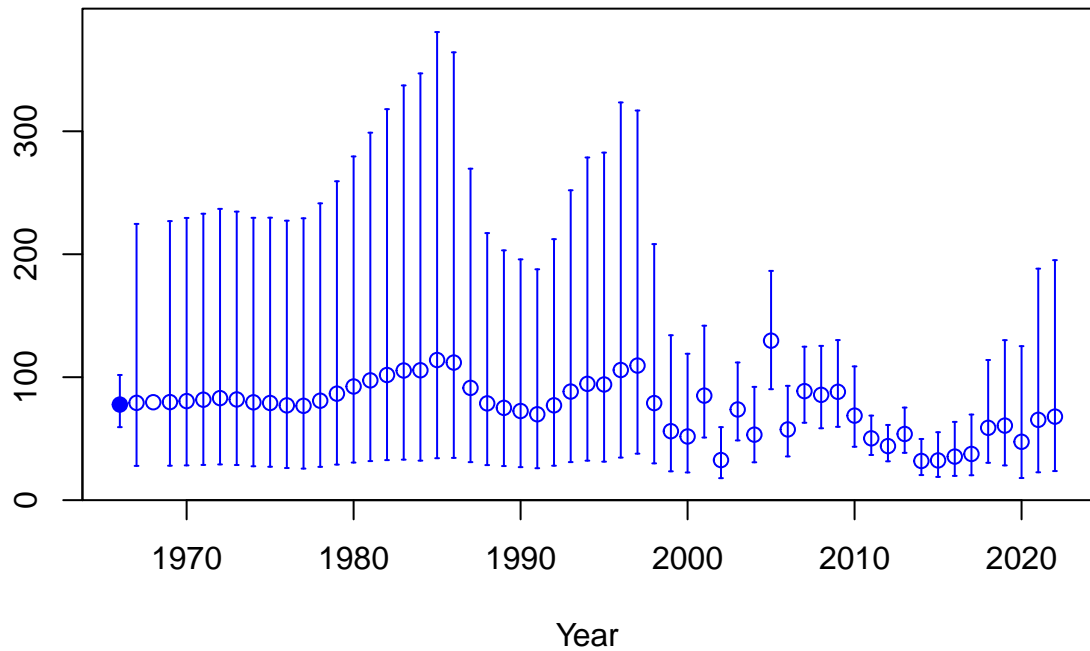




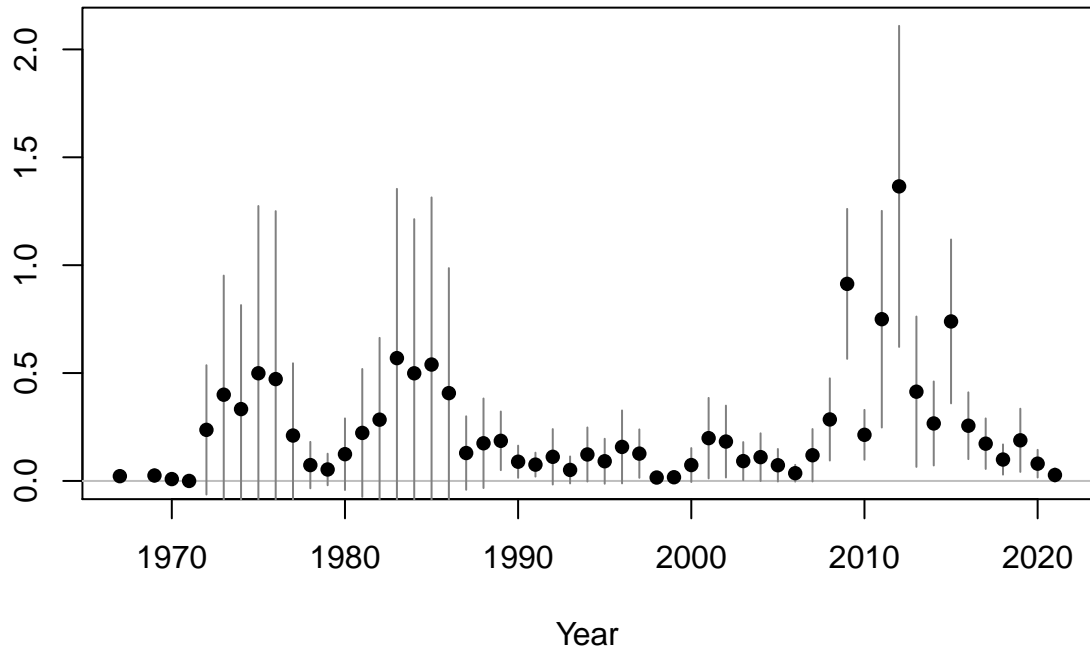
Age-0 recruits (1,000s)

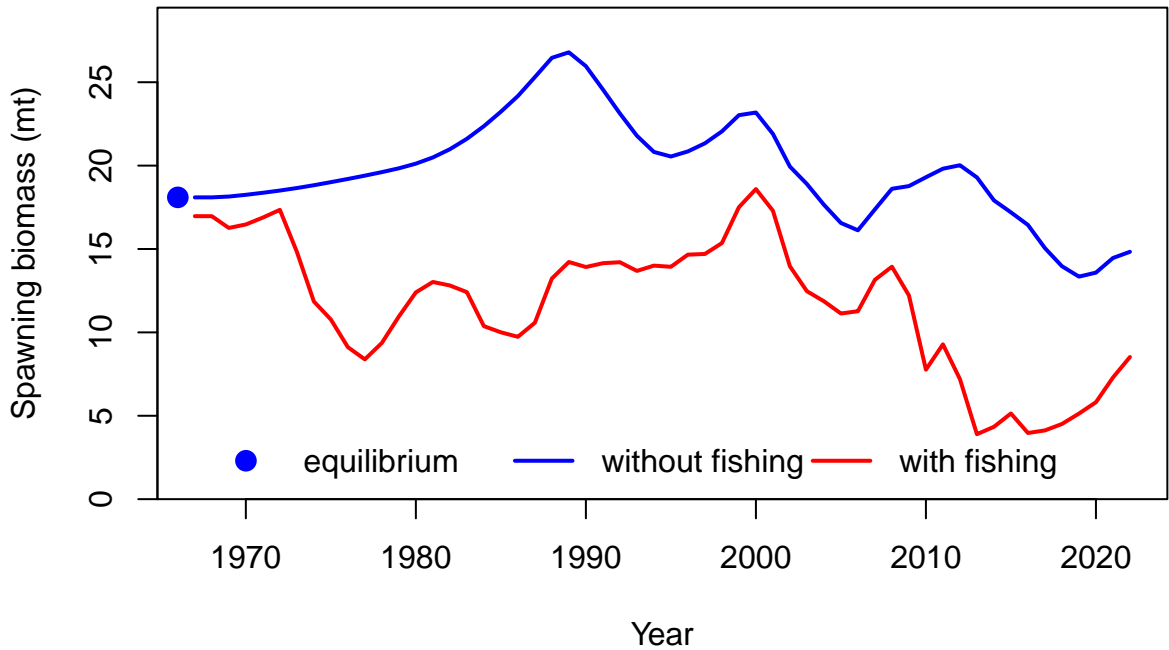


Age-0 recruits (1,000s)



Summary Fishing Mortality





Log recruitment deviation

0.5  
0.0  
-0.5

1970

1980

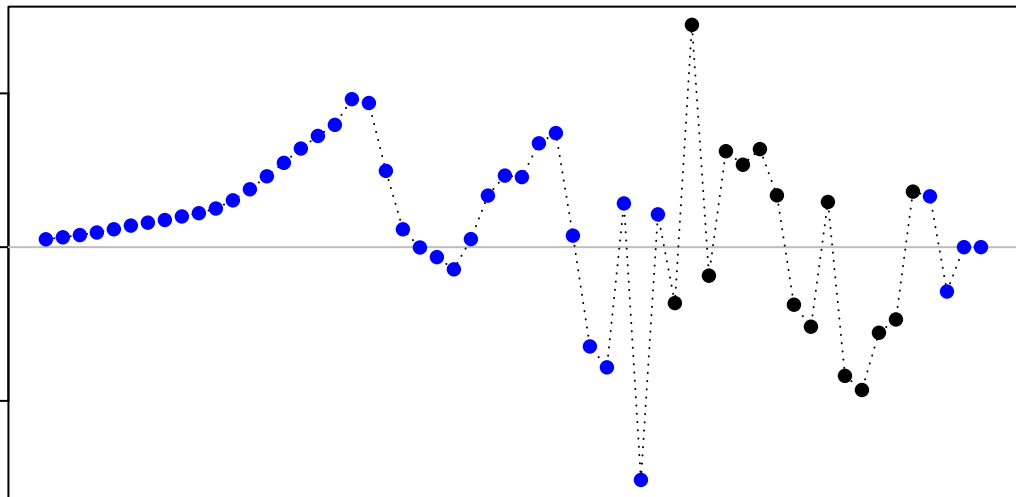
1990

2000

2010

2020

Year



Log recruitment deviation

-1.0 0.0 0.5 1.0 1.5

1970

1980

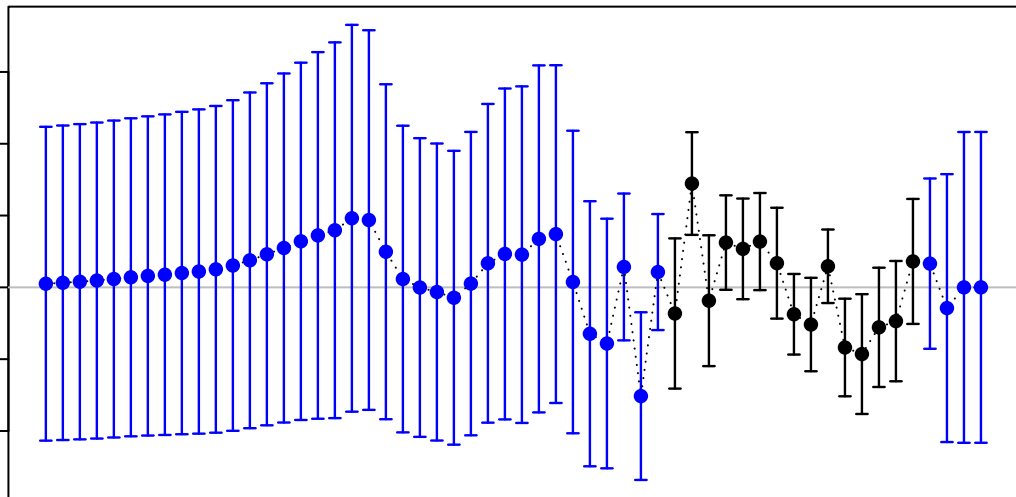
1990

2000

2010

2020

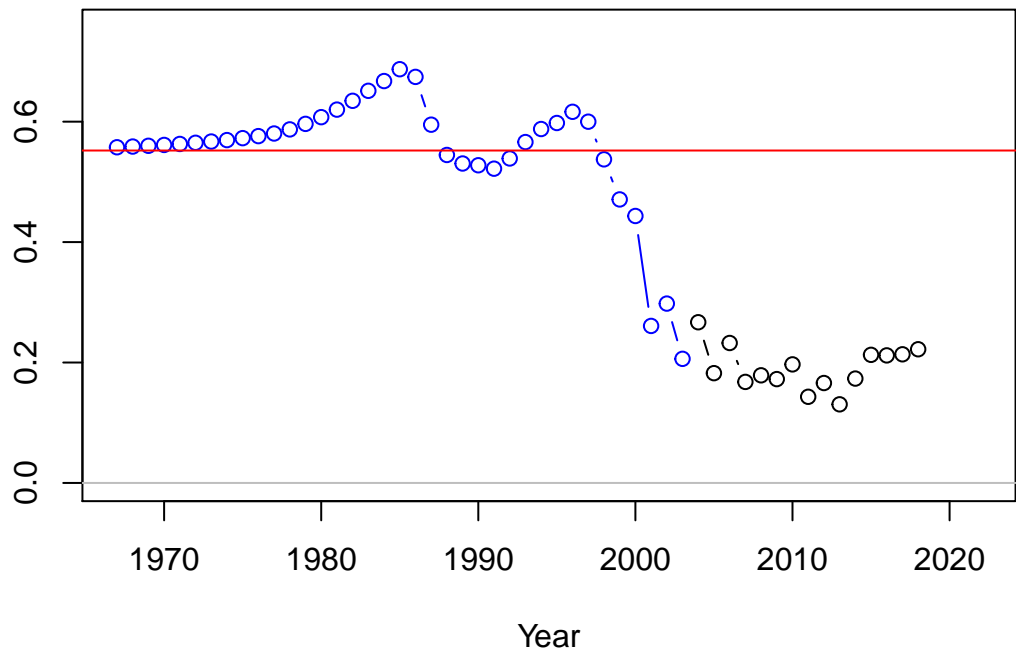
Year

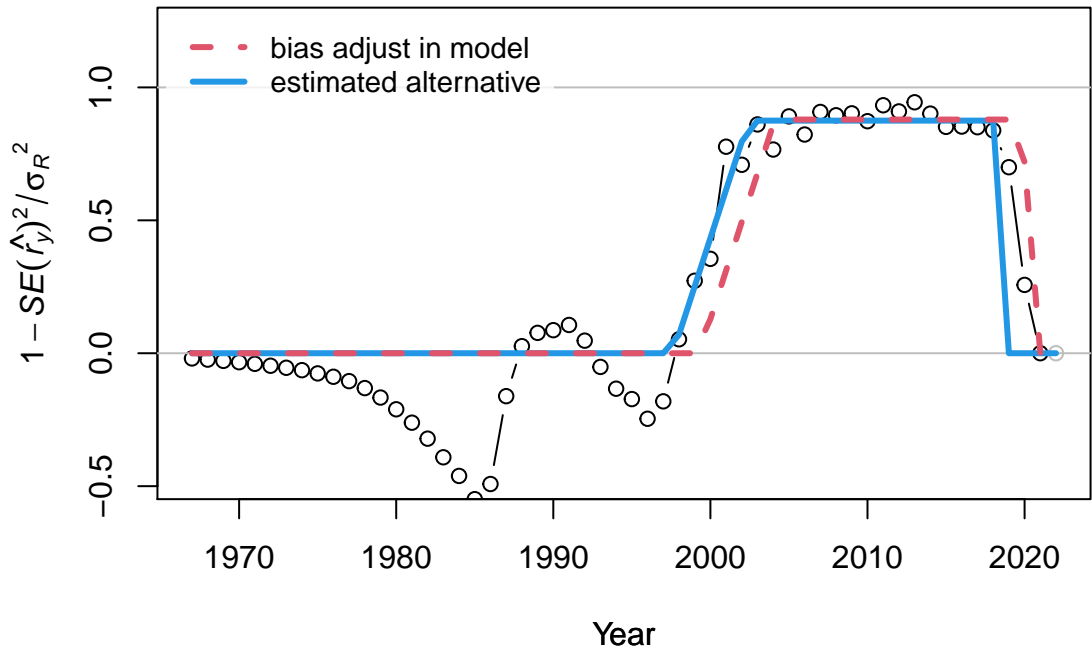




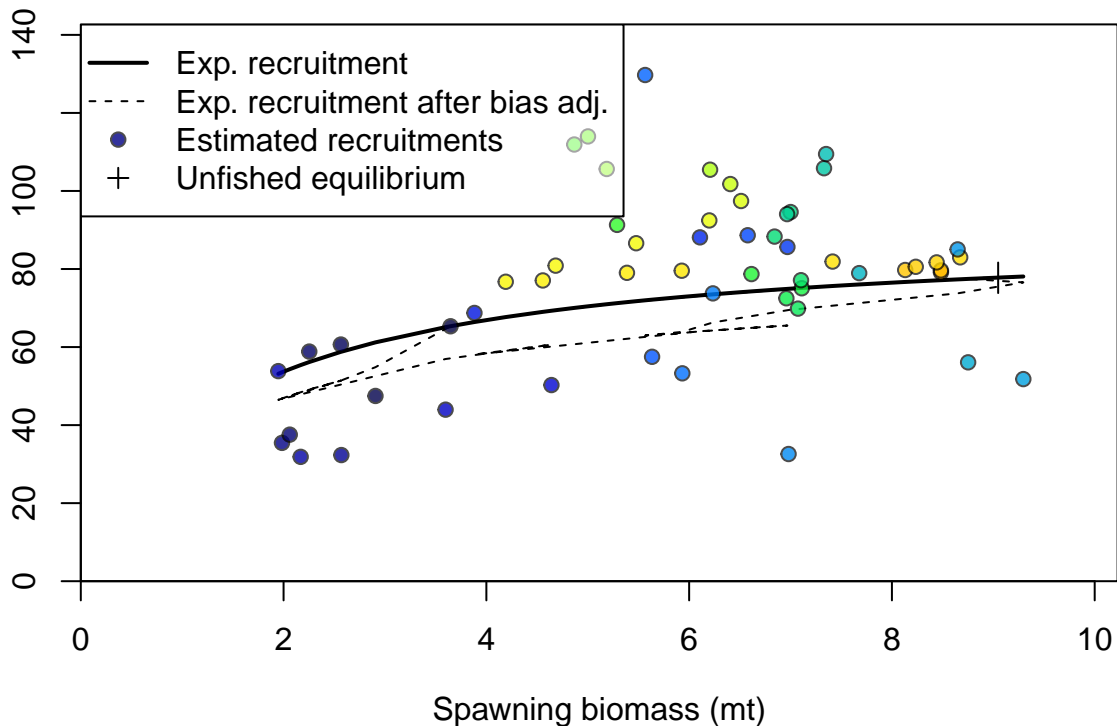
## Recruitment deviation variance

Asymptotic standard error estimate

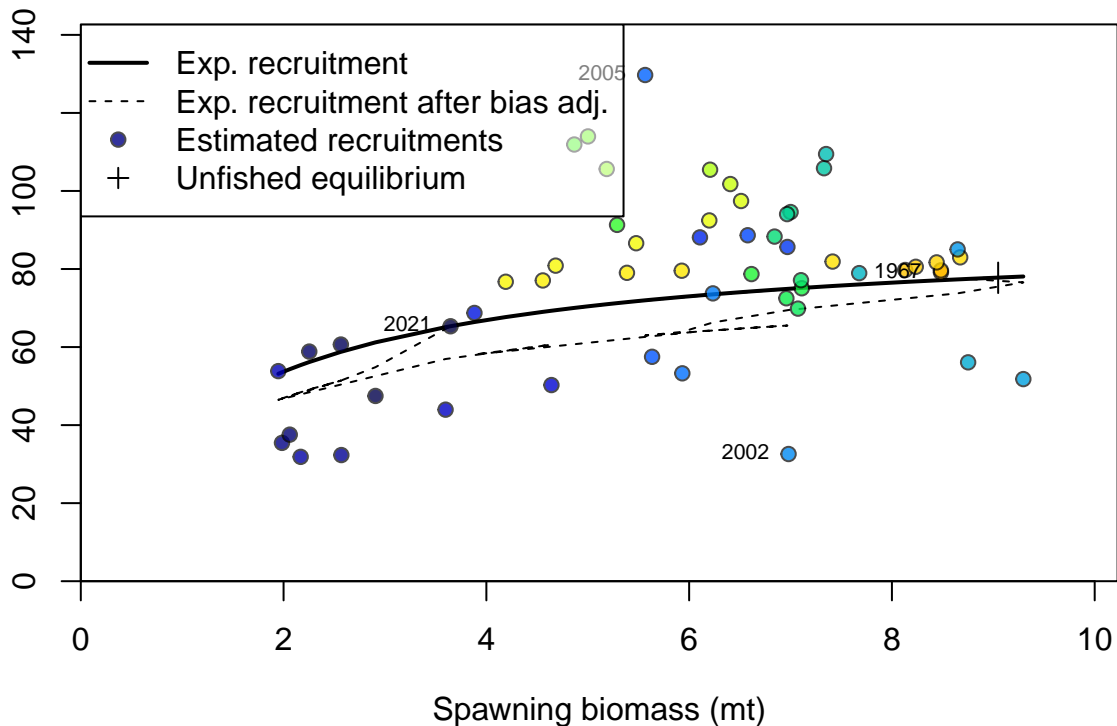


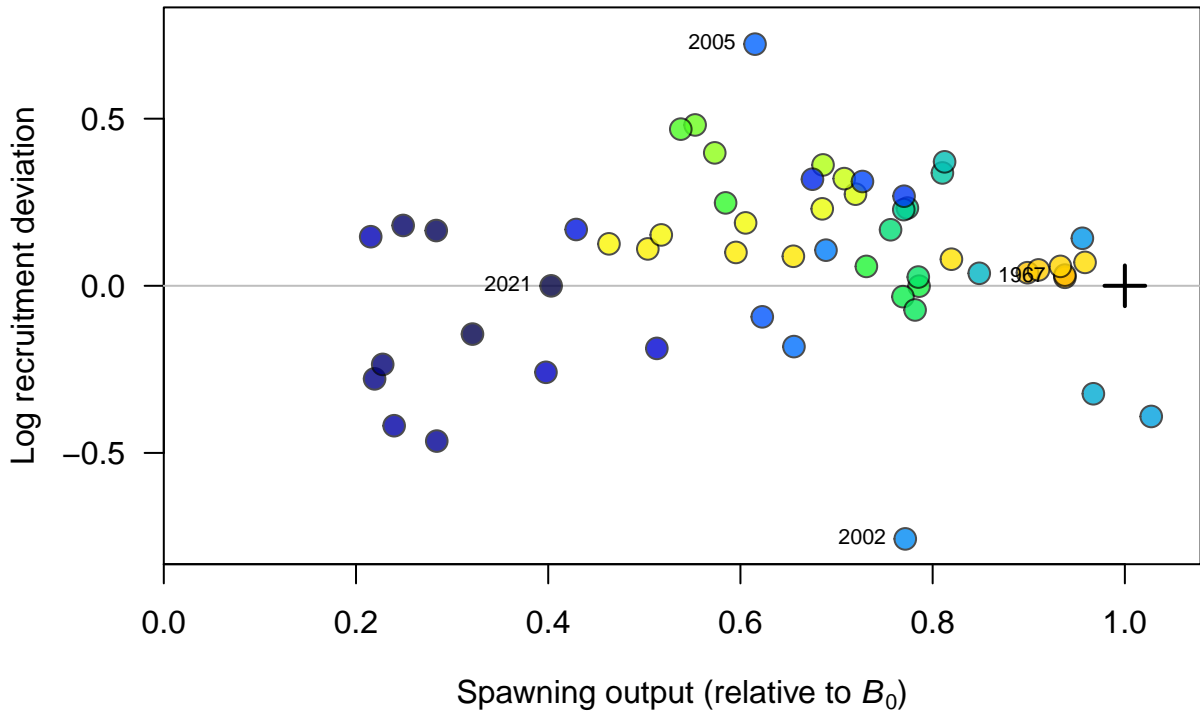


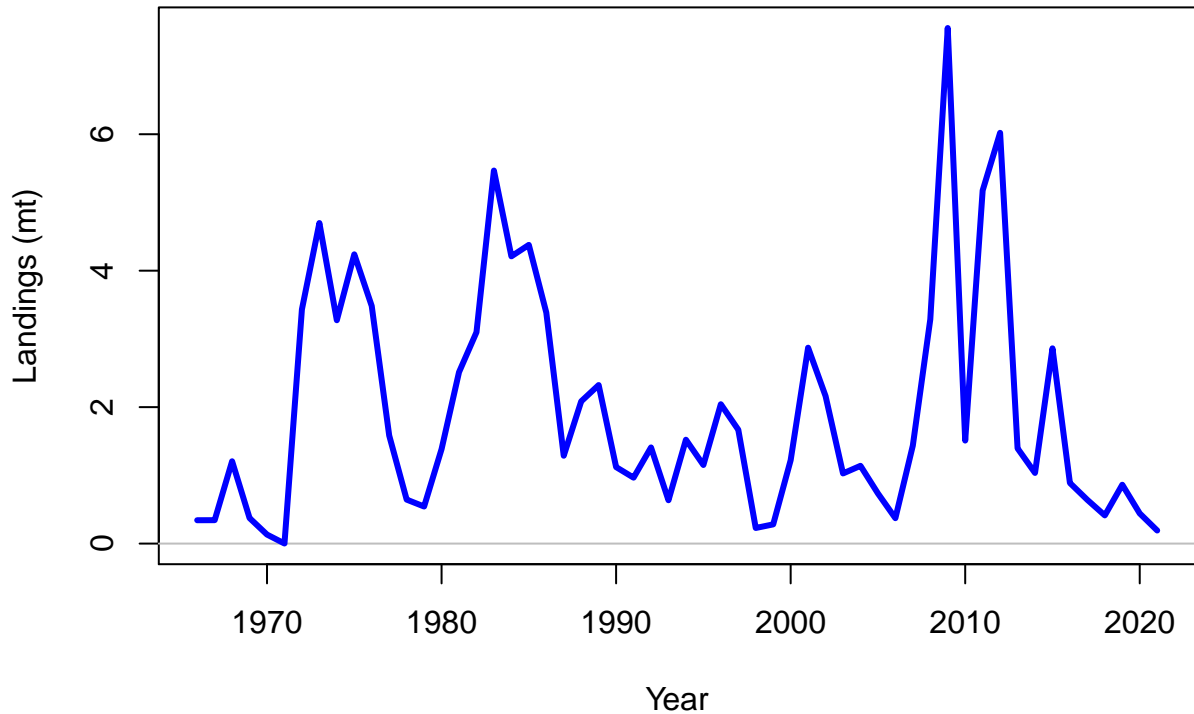
Recruitment (1,000s)

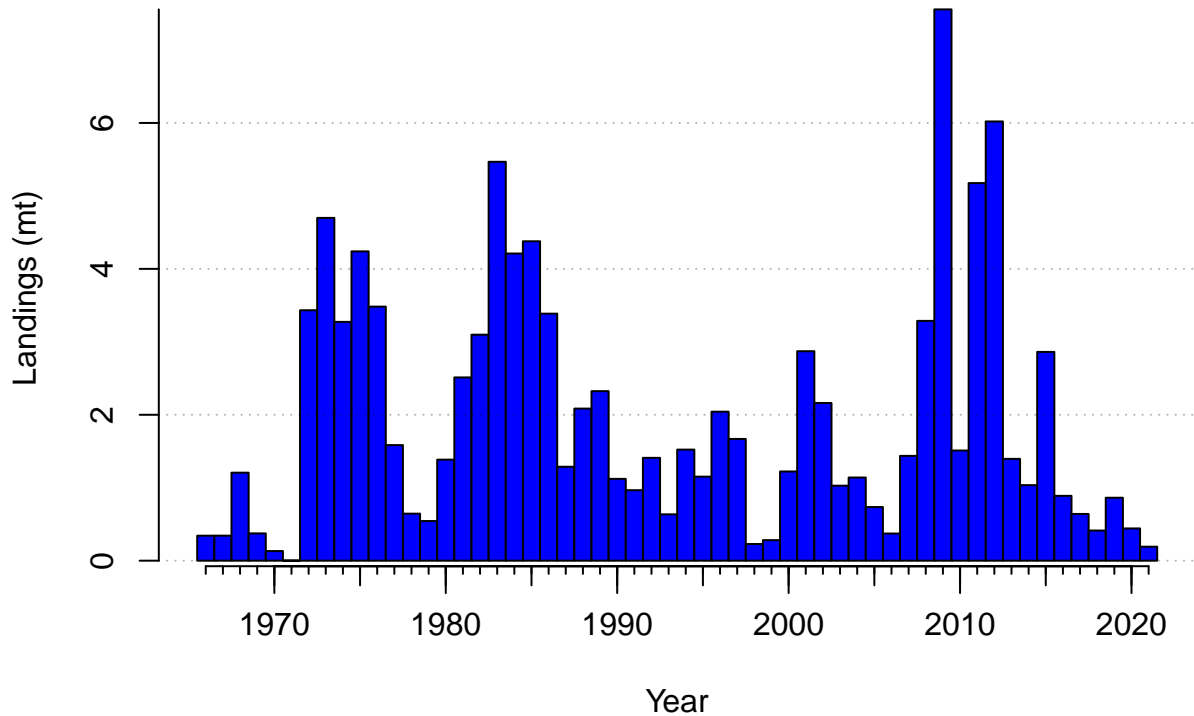


Recruitment (1,000s)

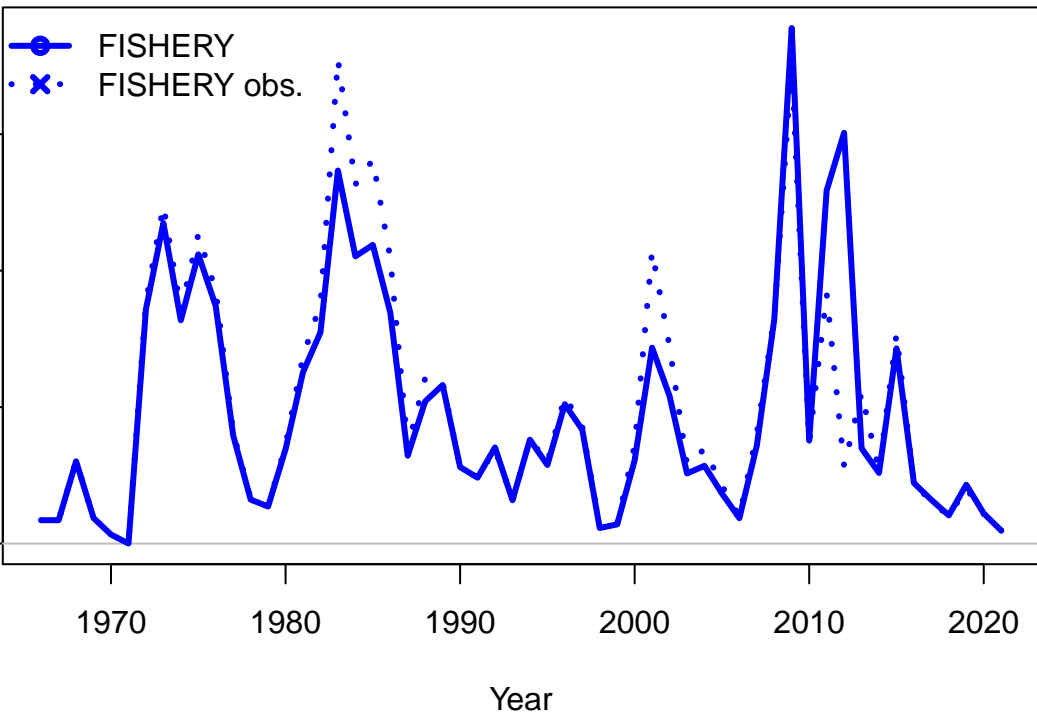




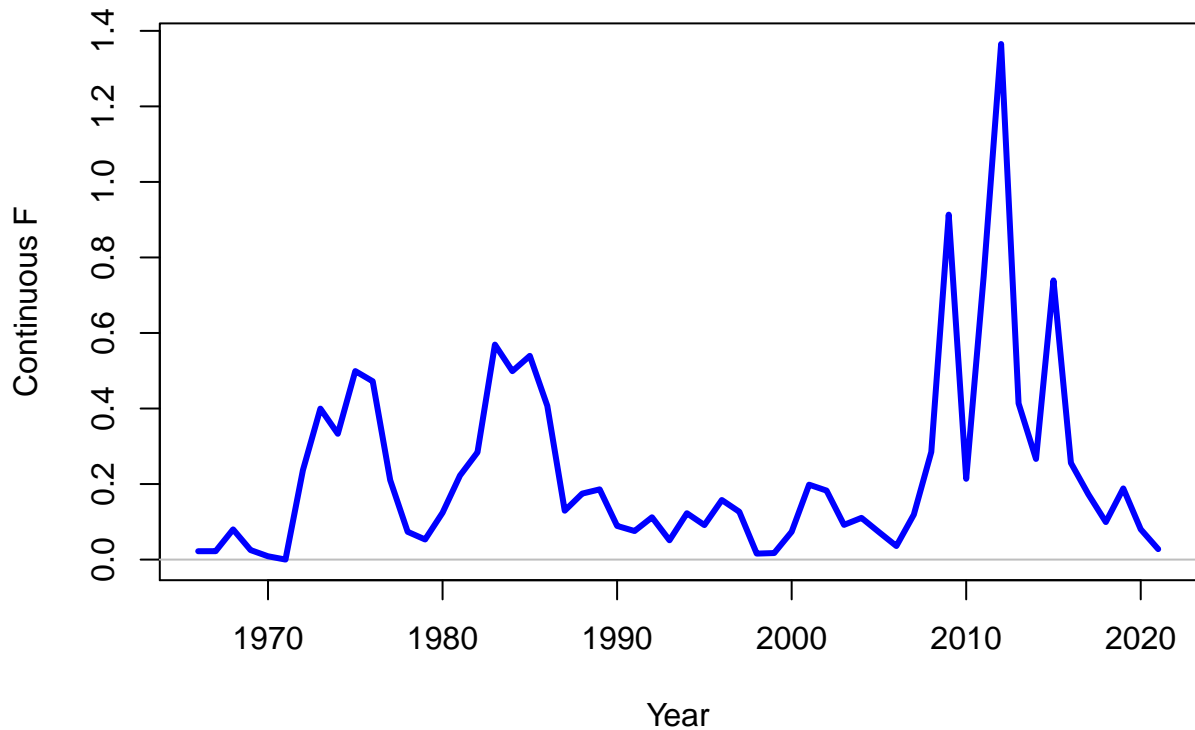




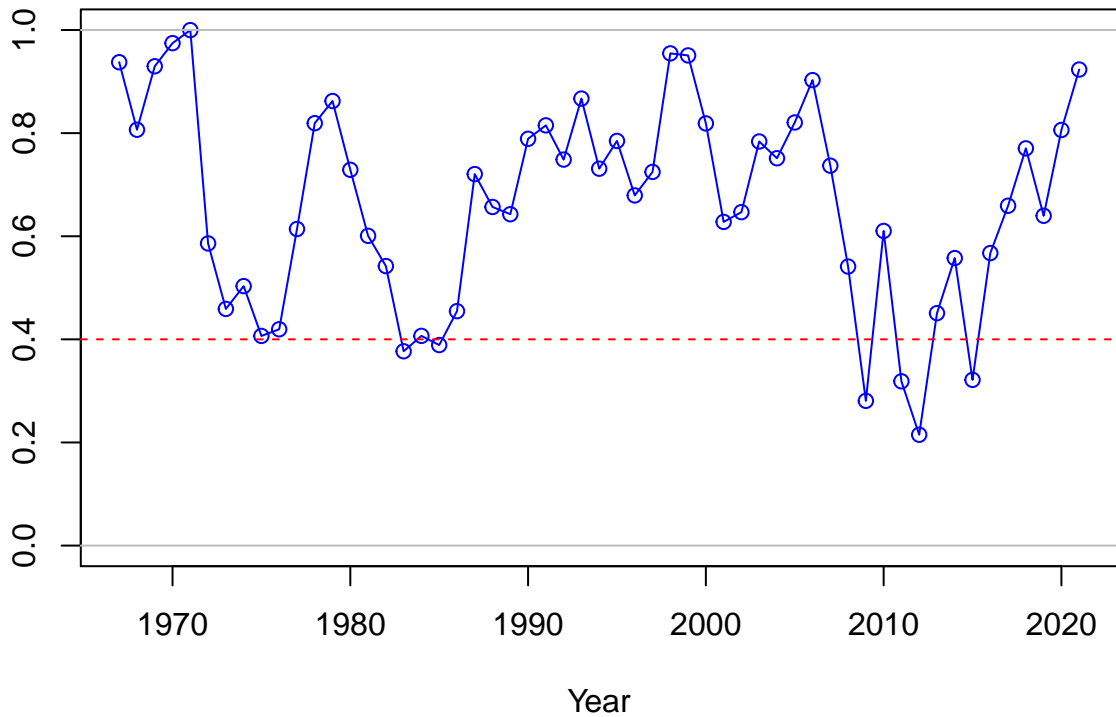
Observed and expected Landings (mt)



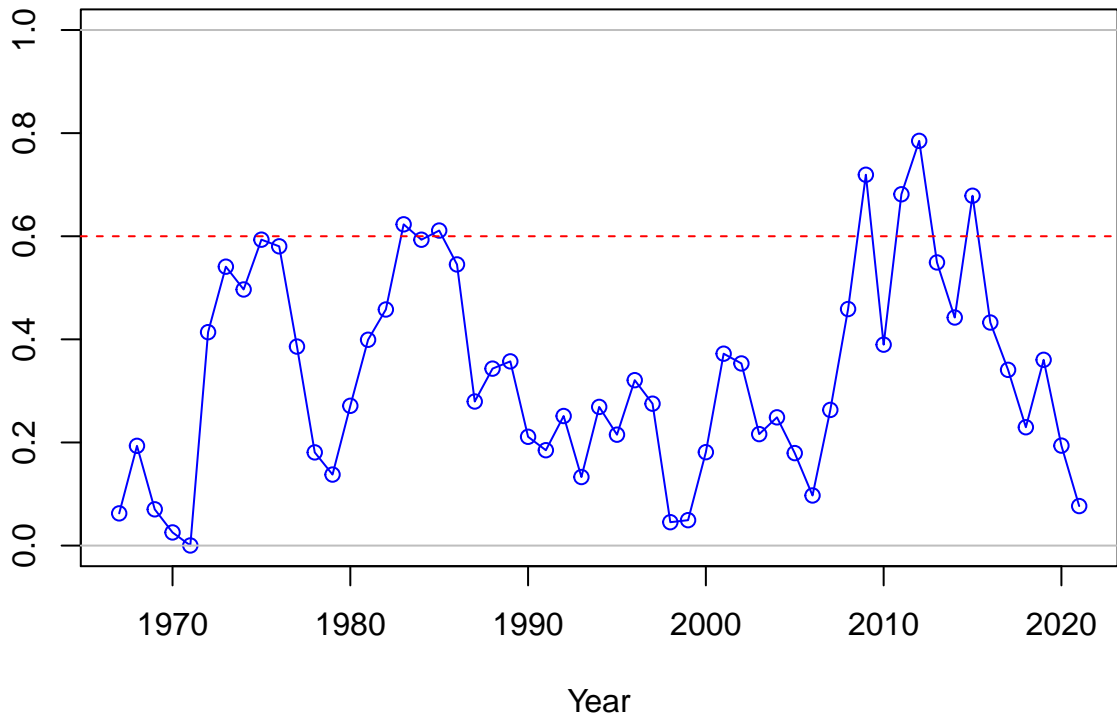




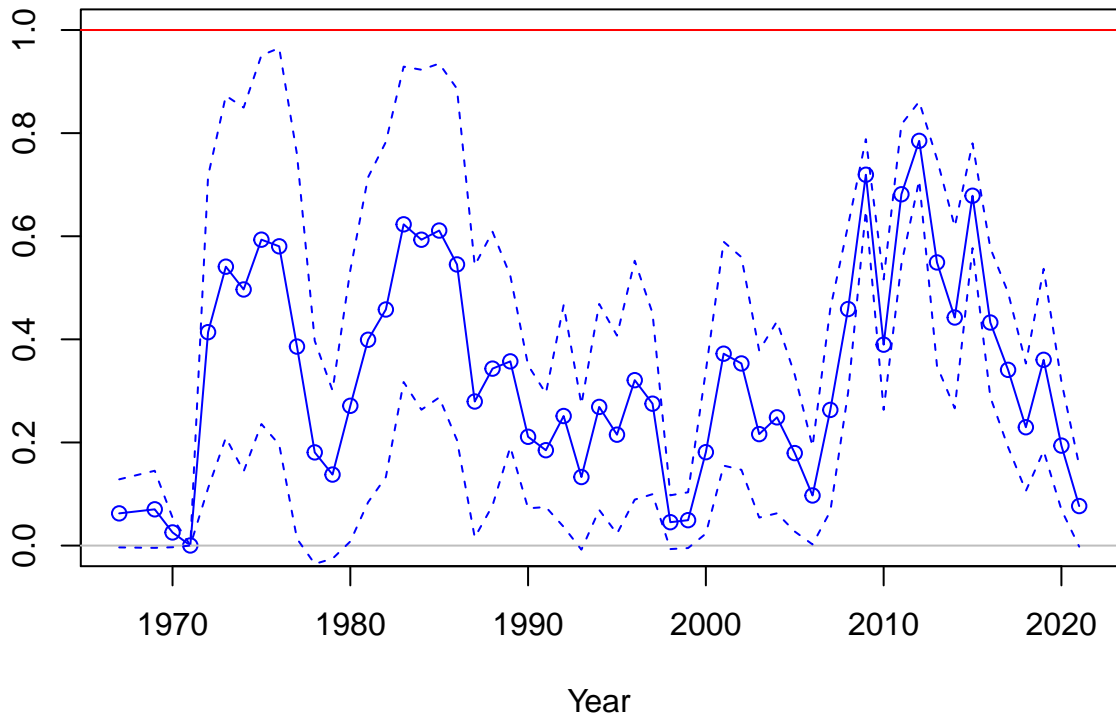
SPR



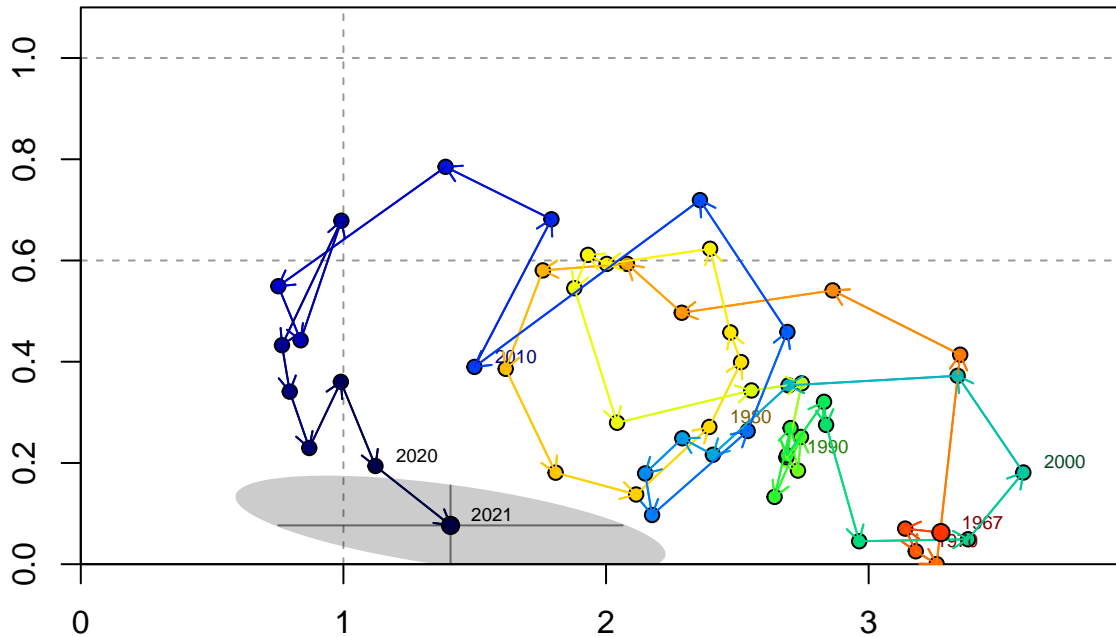
1-SPR



Fishing intensity: 1-SPR

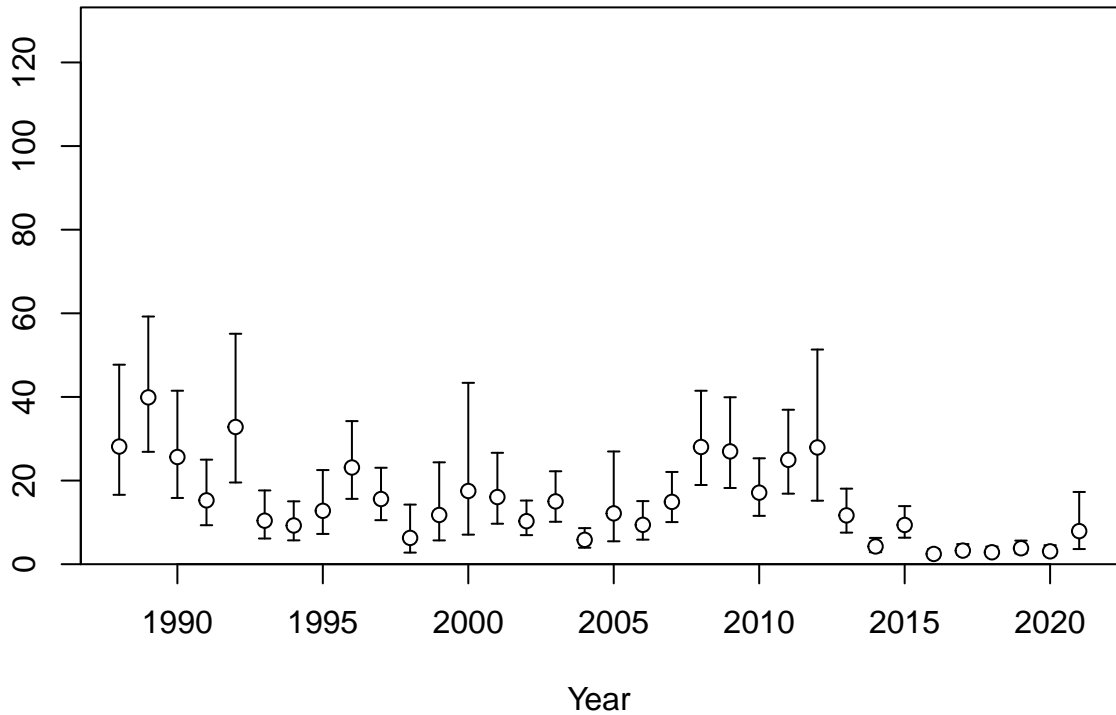


Fishing intensity: 1-SPR

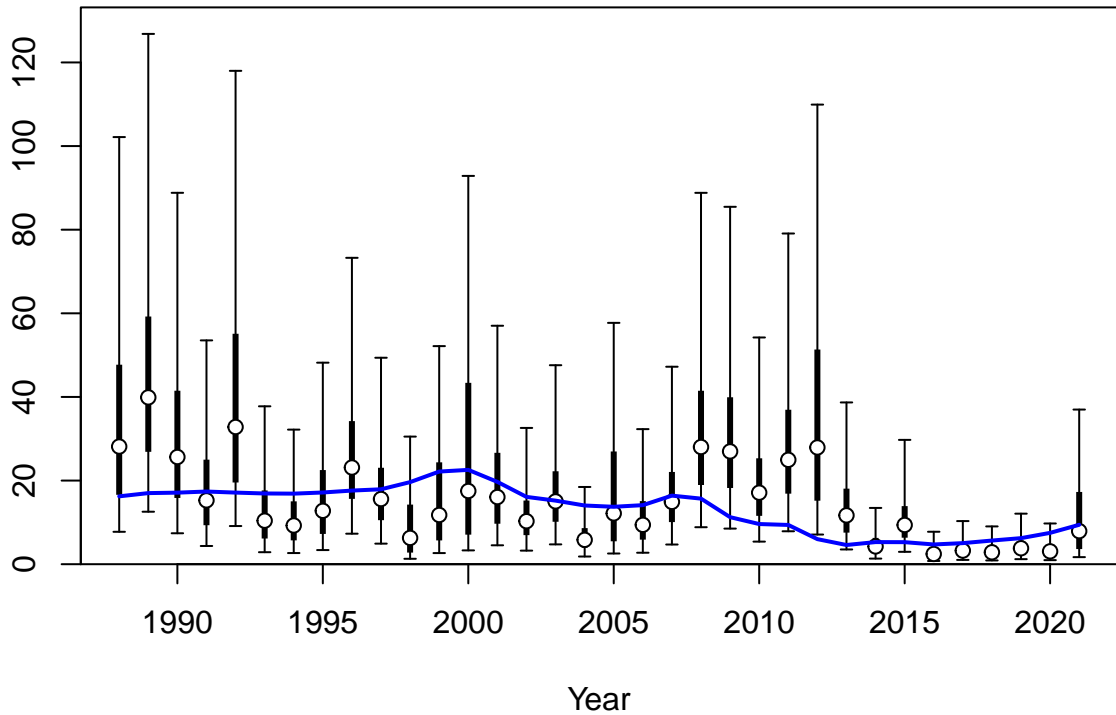


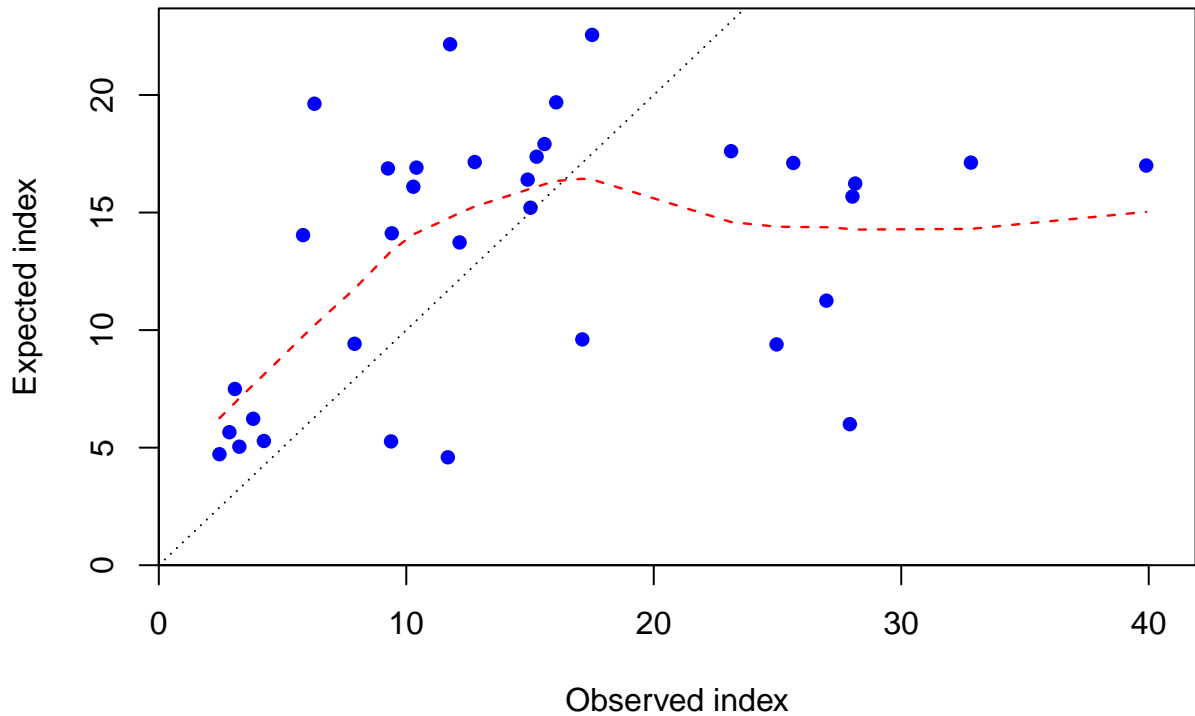
Relative spawning output: B/B\_MSY

Index



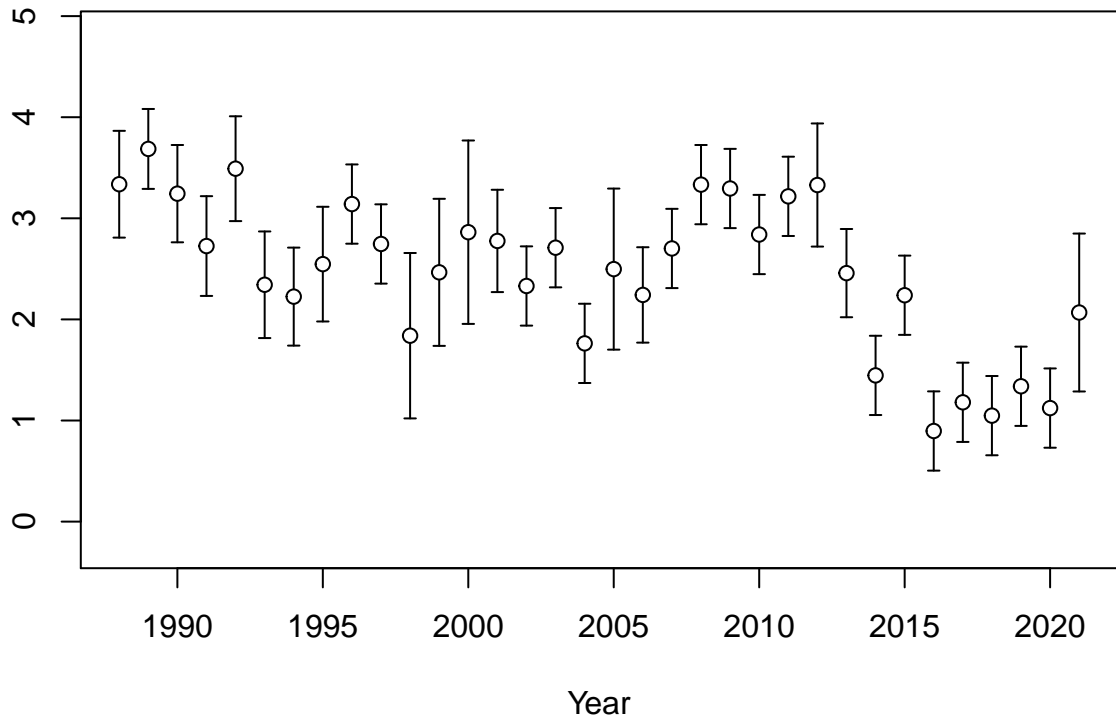
Index



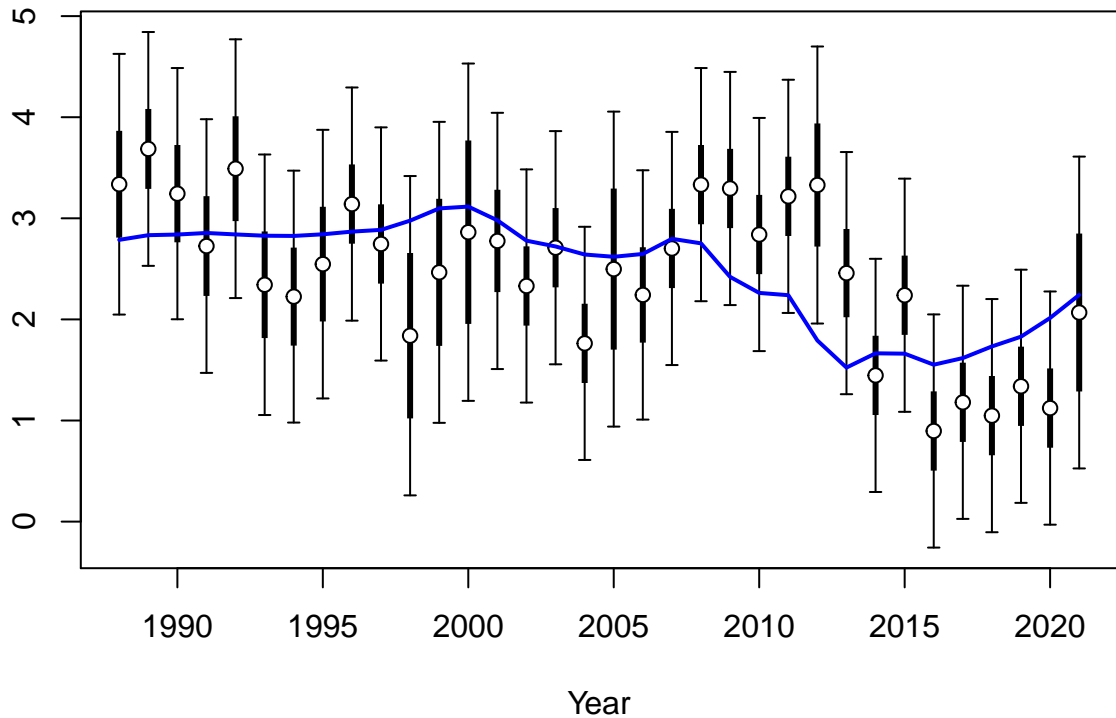


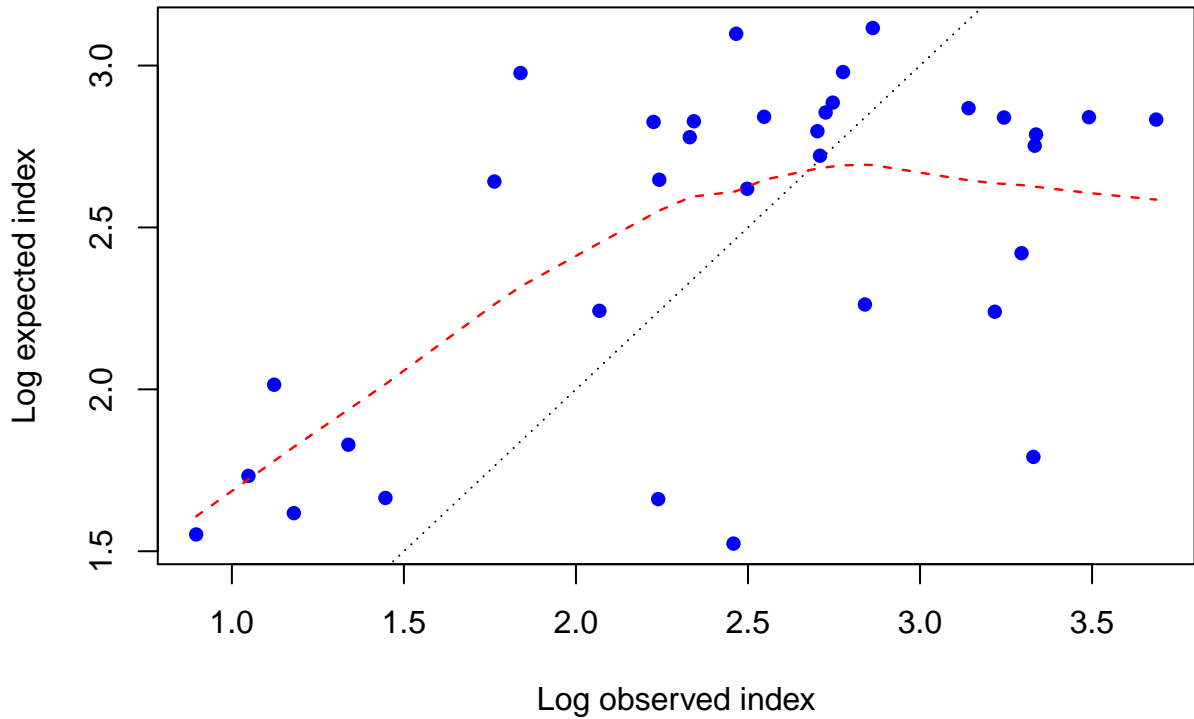


Log index



Log index





Effective catchability

1.360078  
1.360074  
1.360070

4

6

8

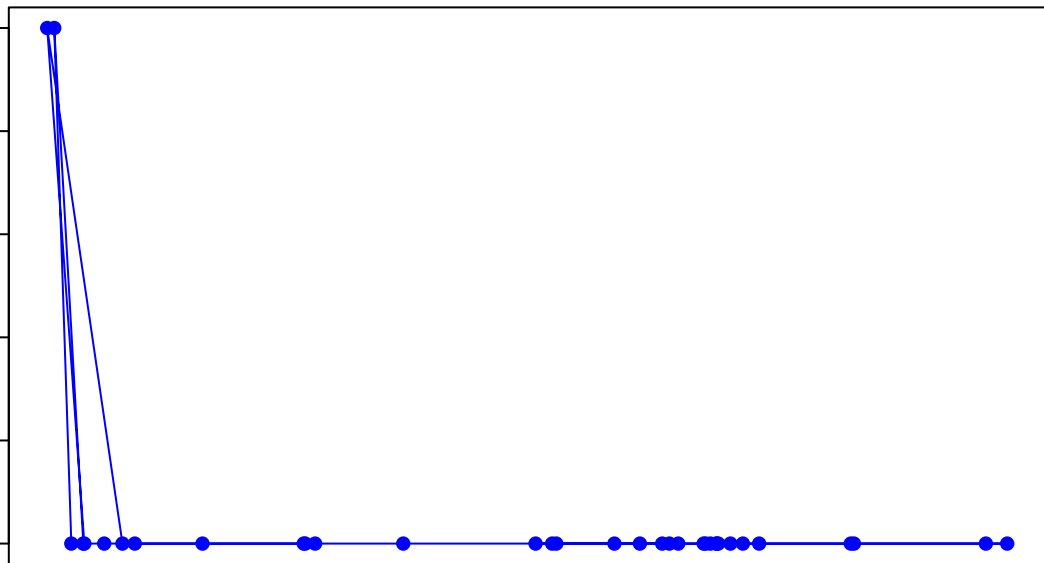
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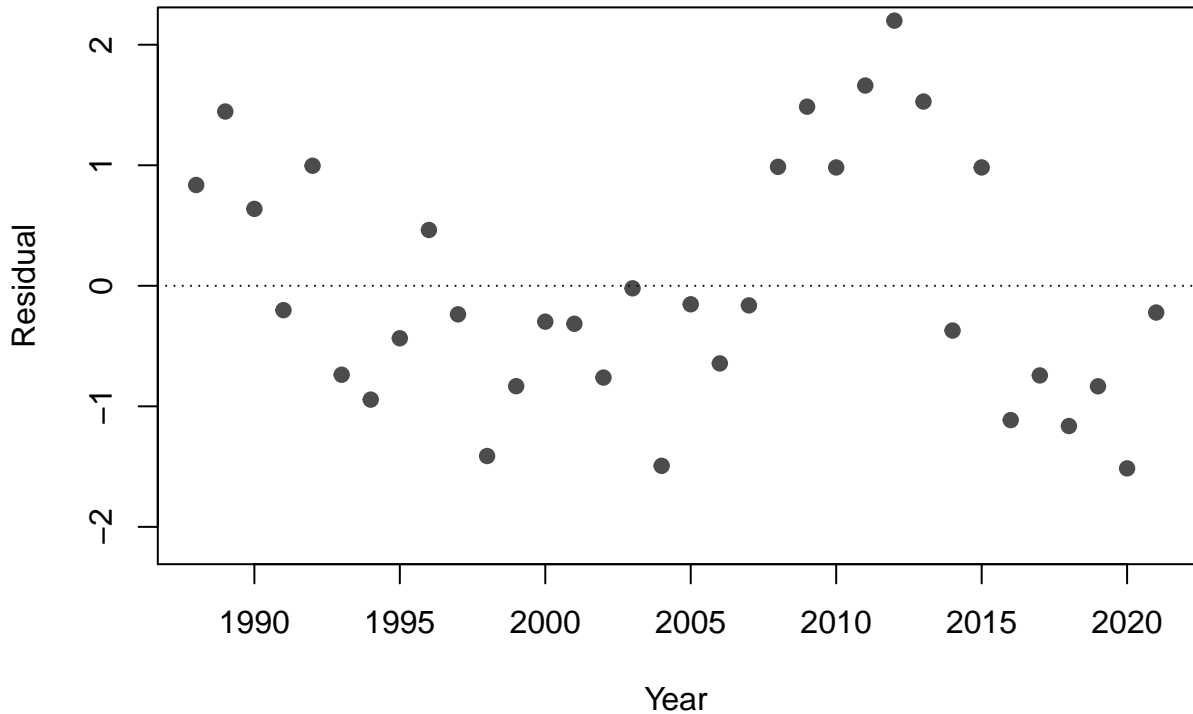
12

14

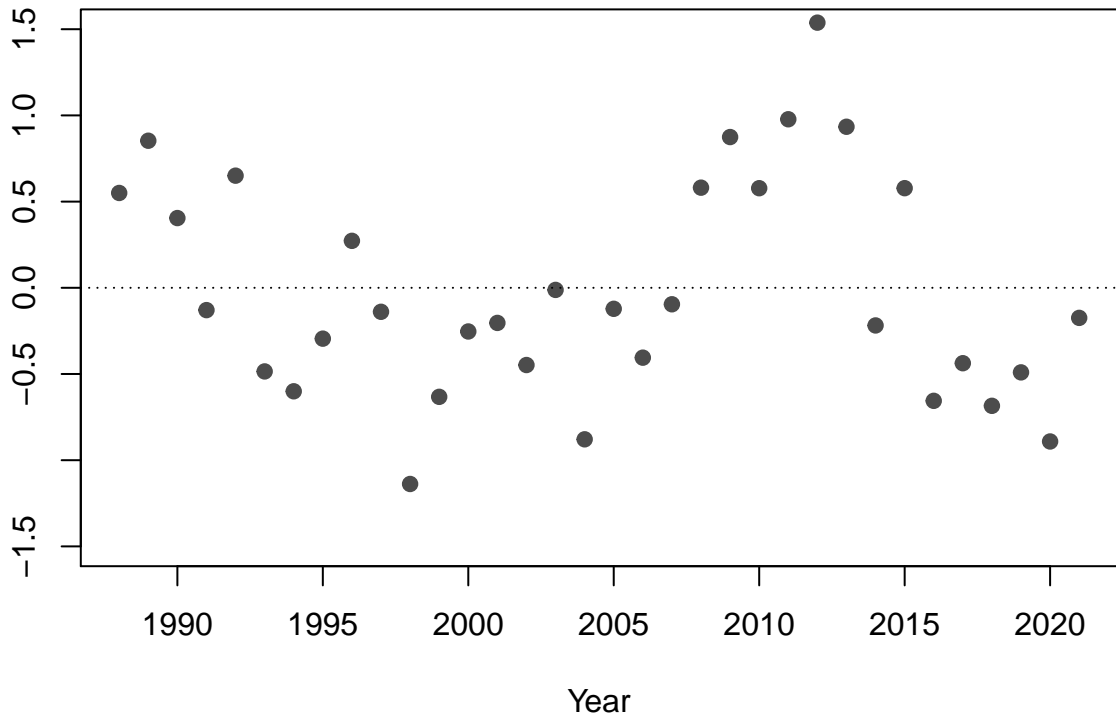
16

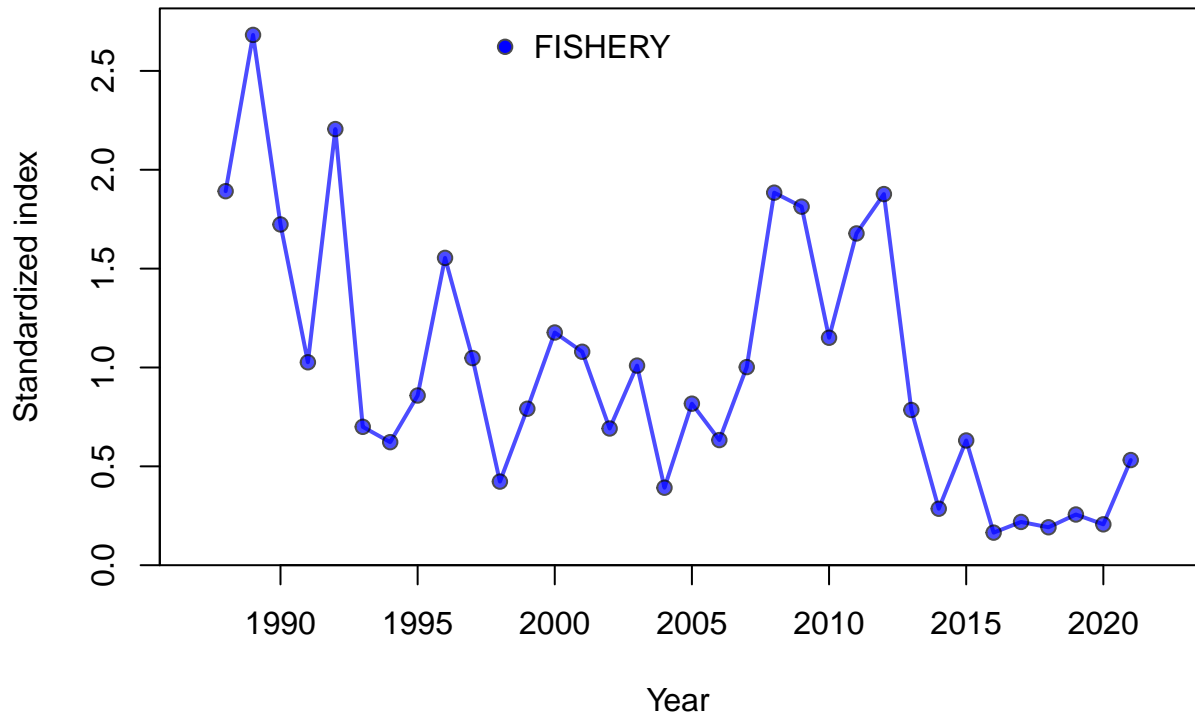
Vulnerable biomass

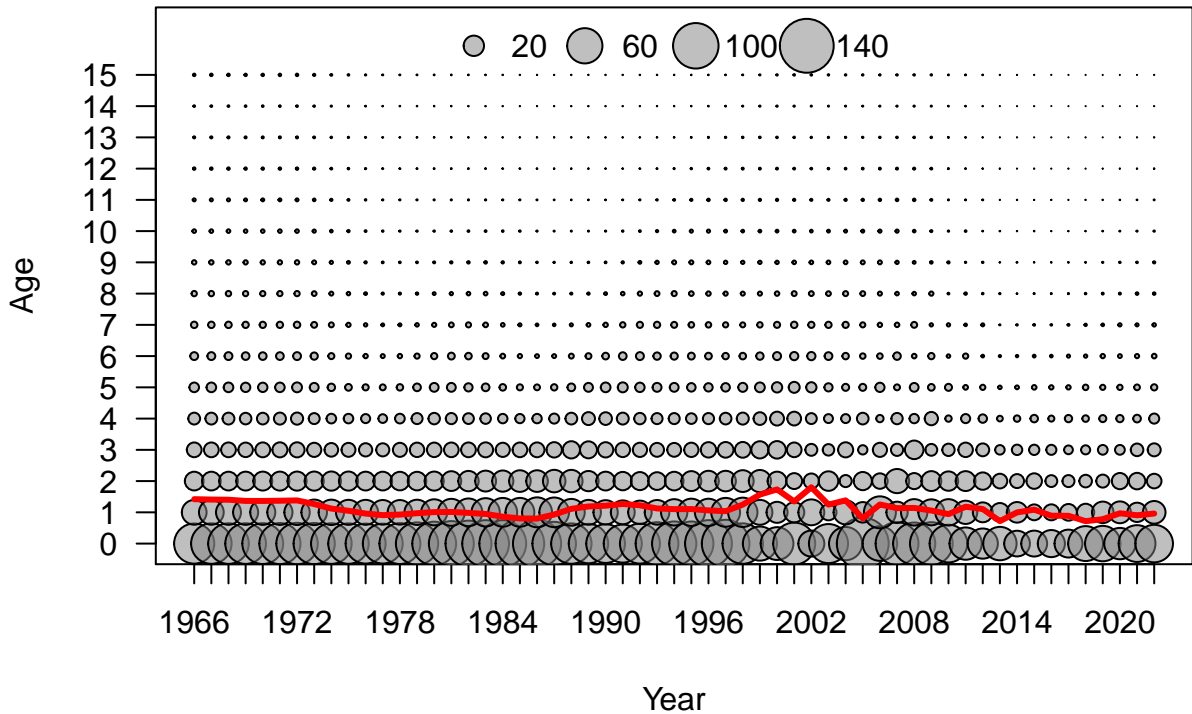




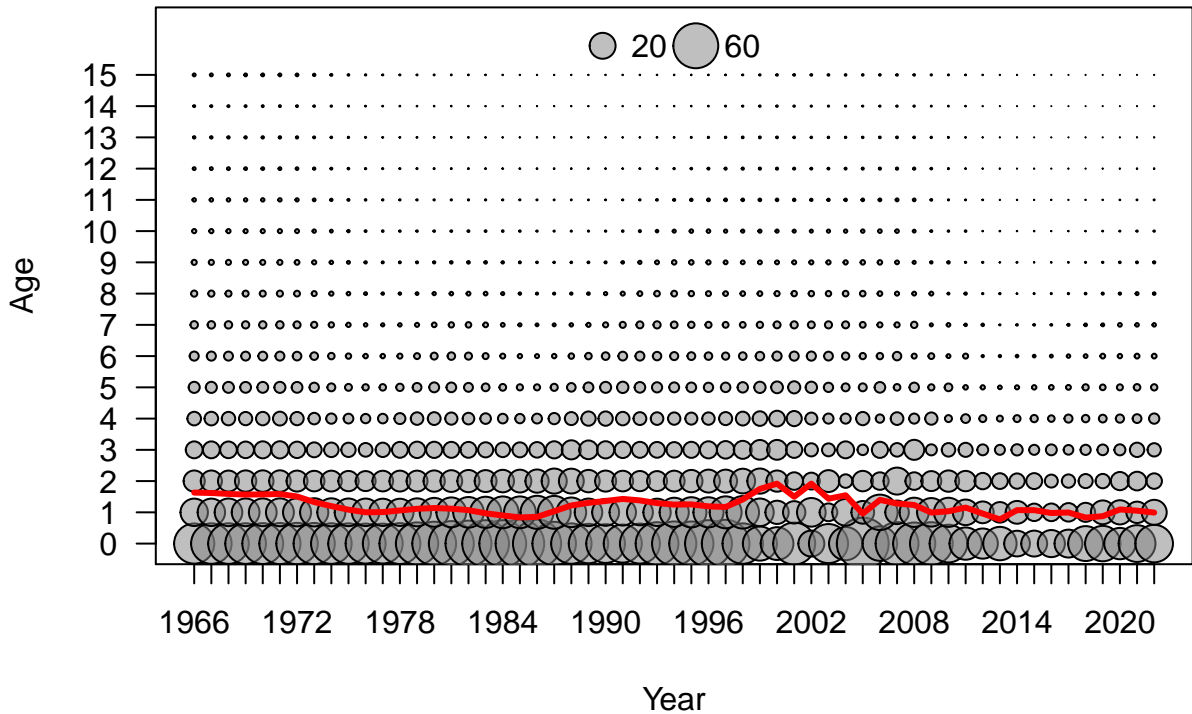
Deviation

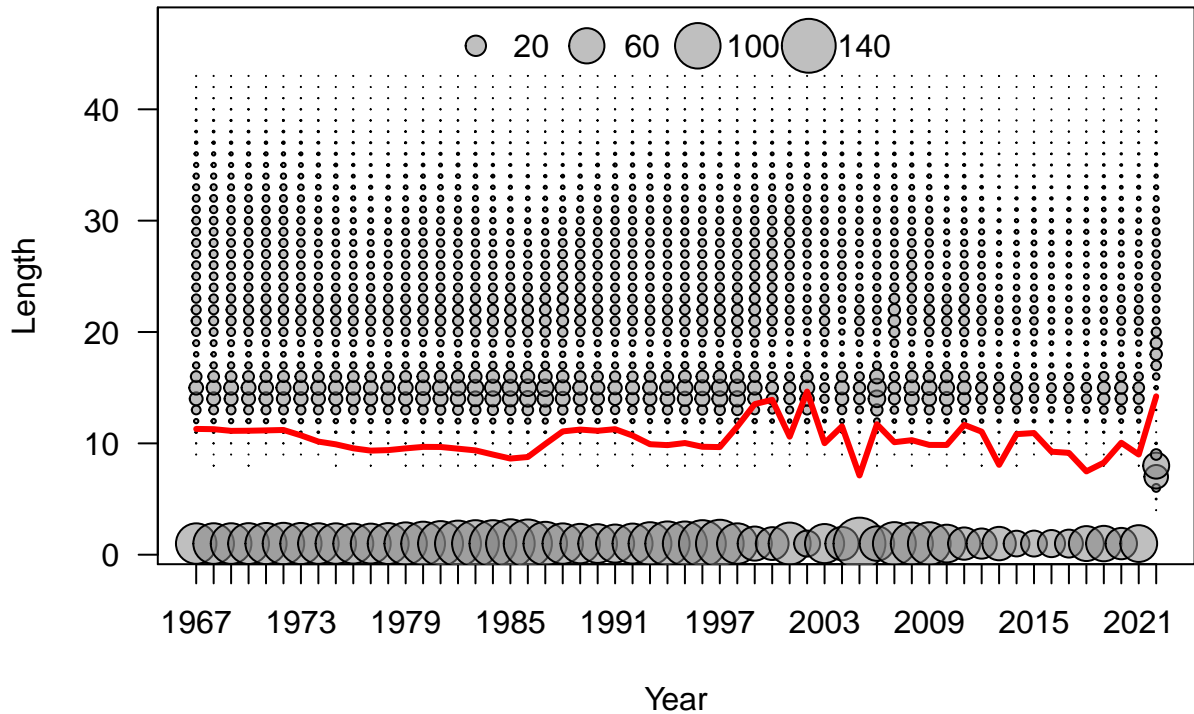


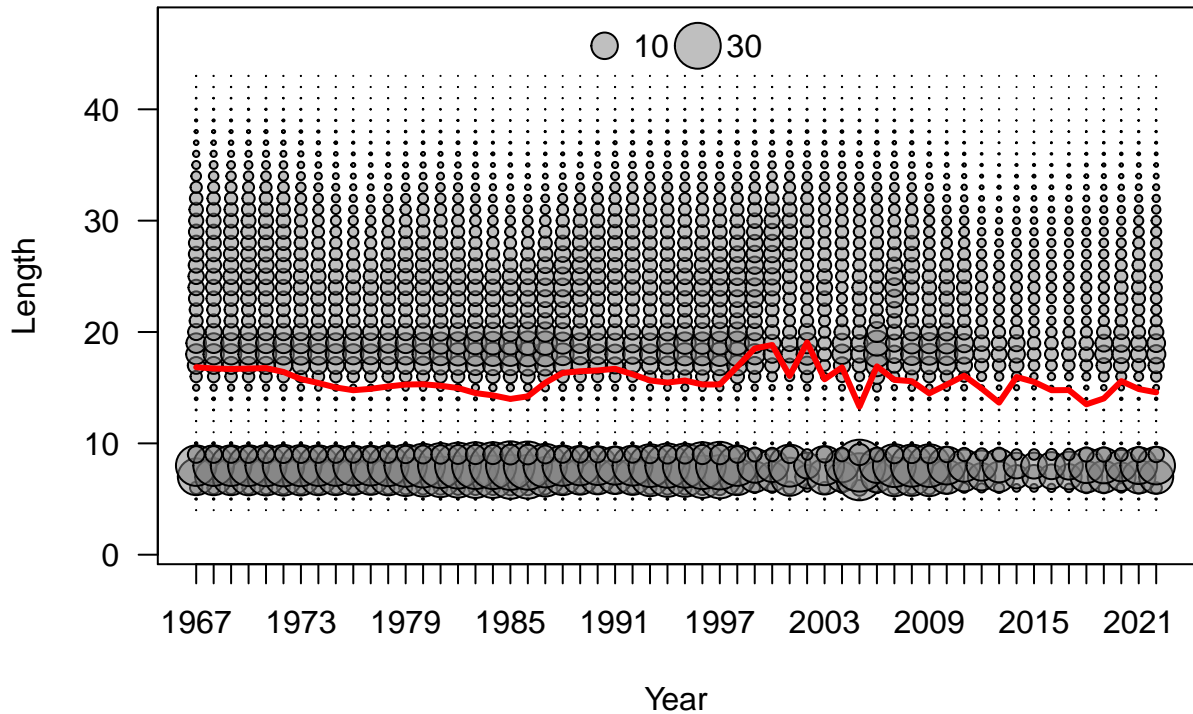


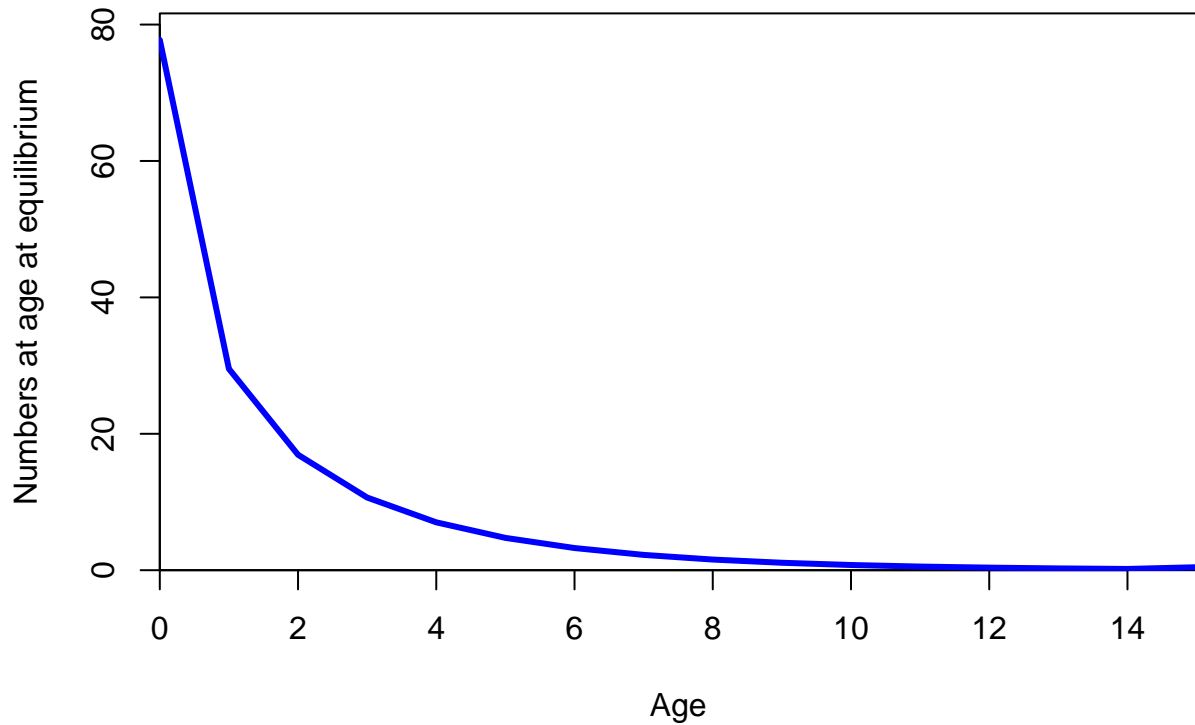


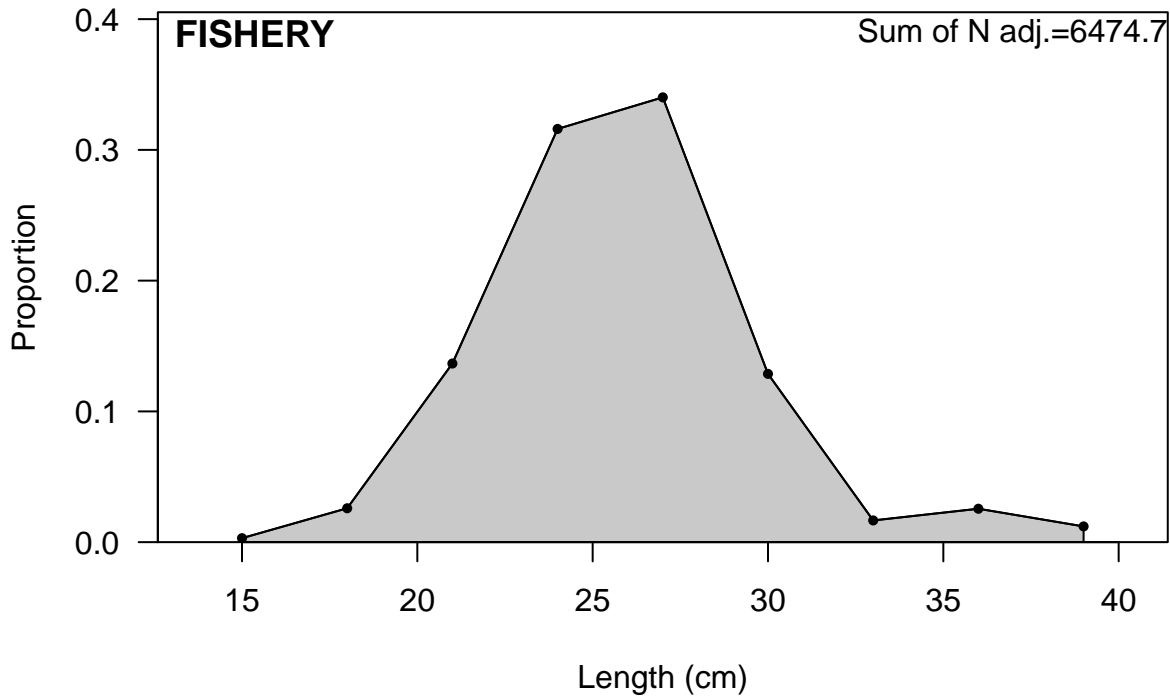


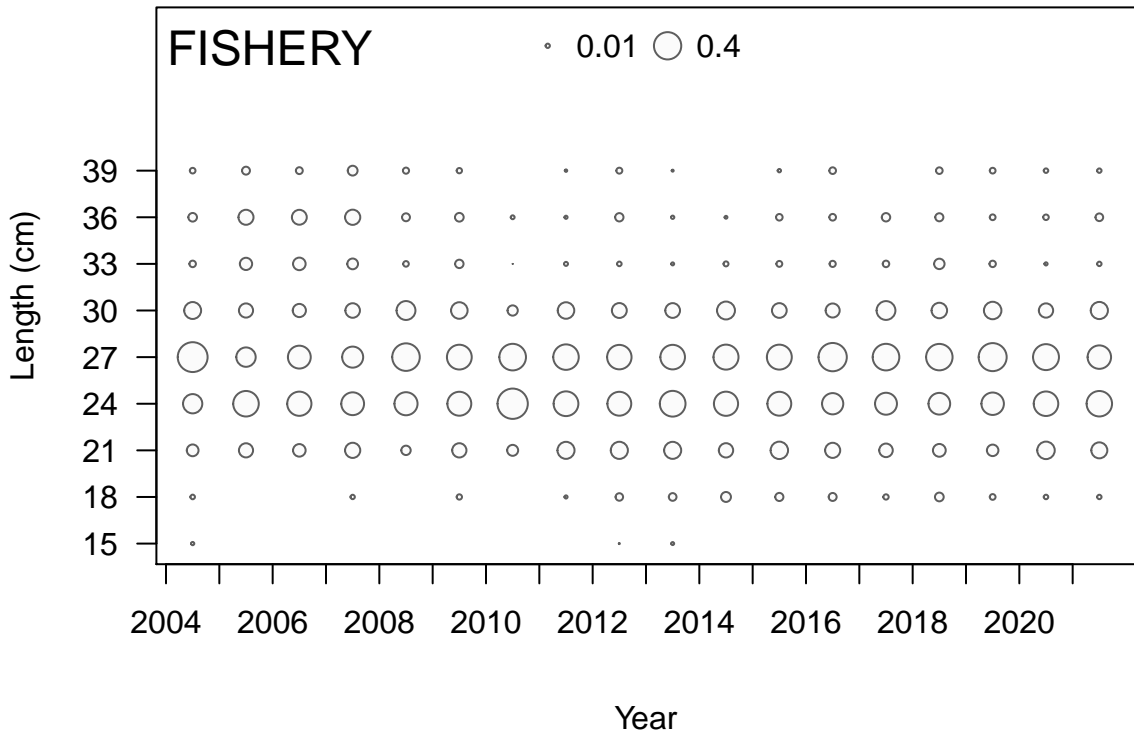




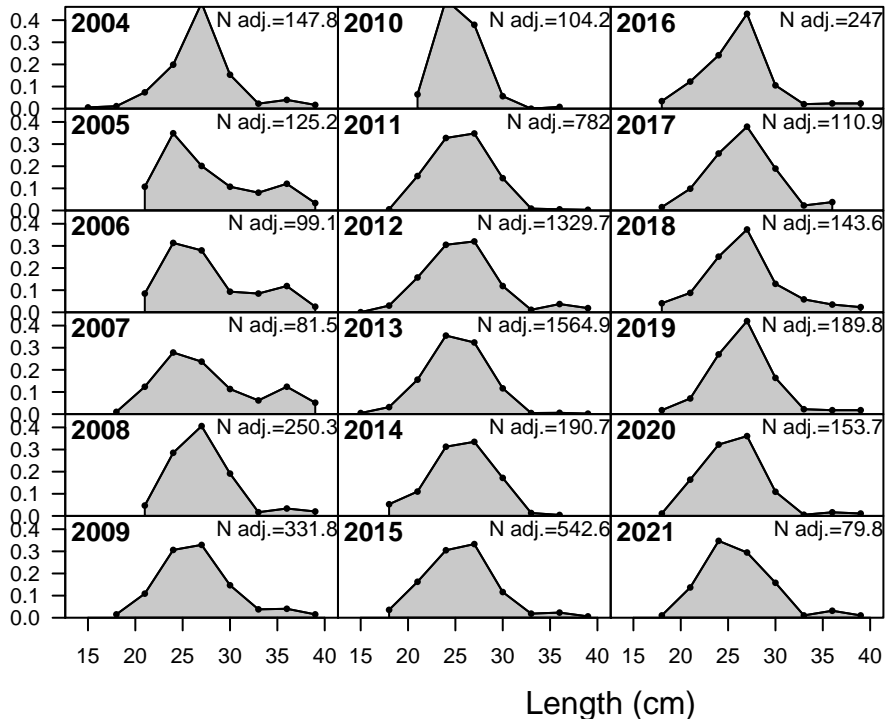


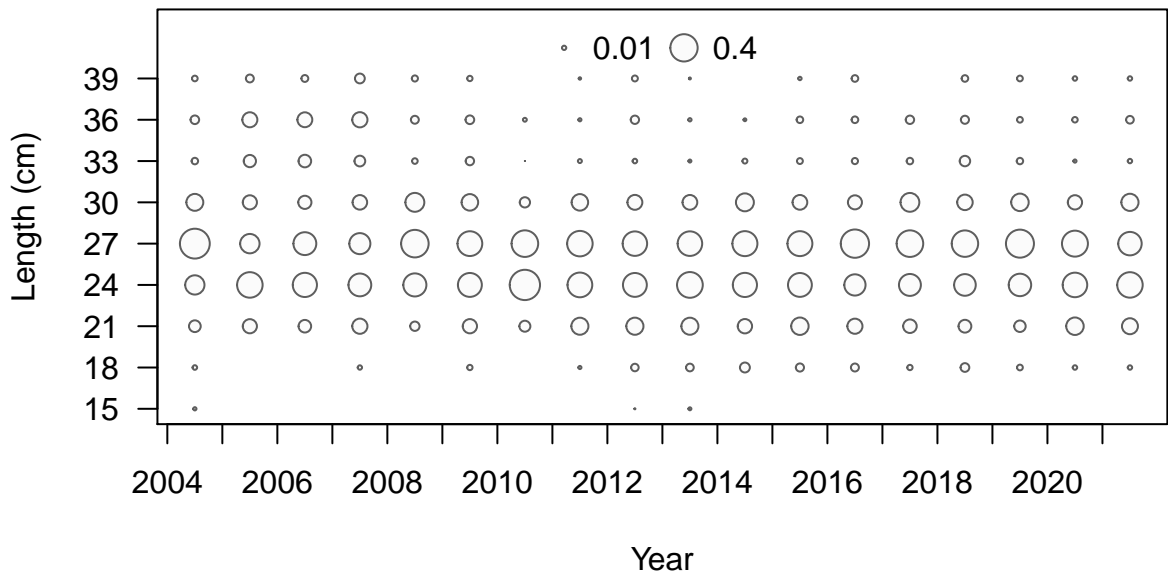






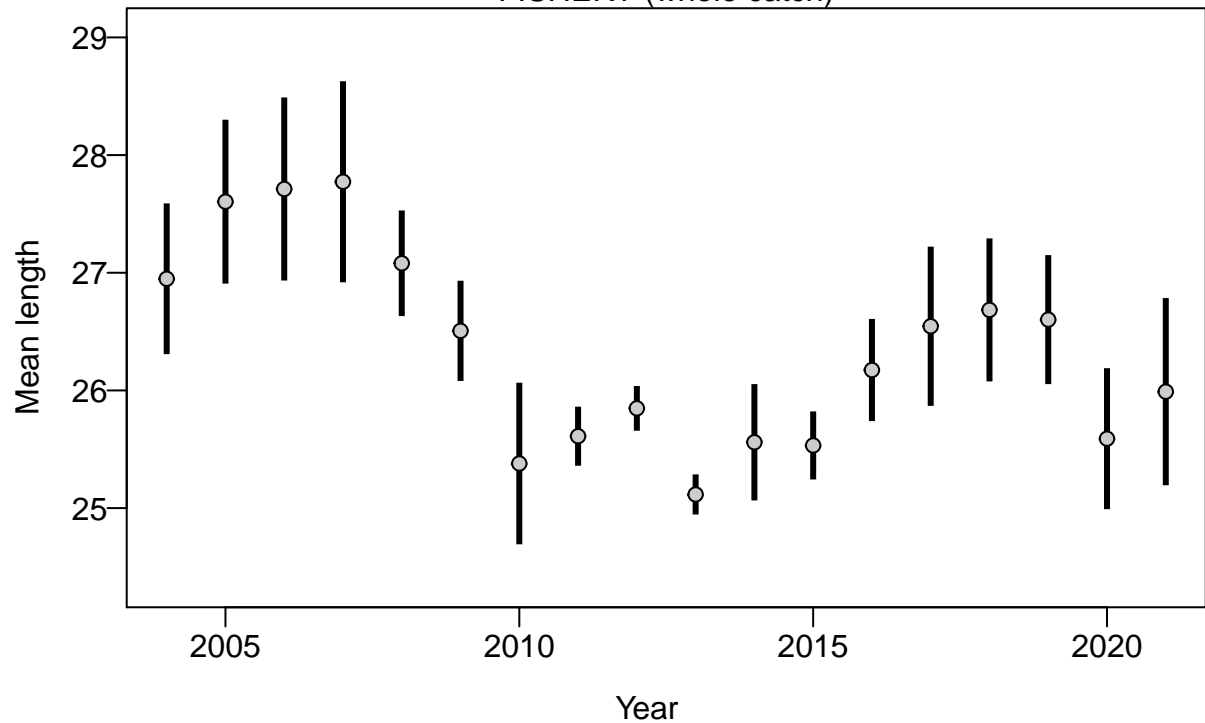
Proportion

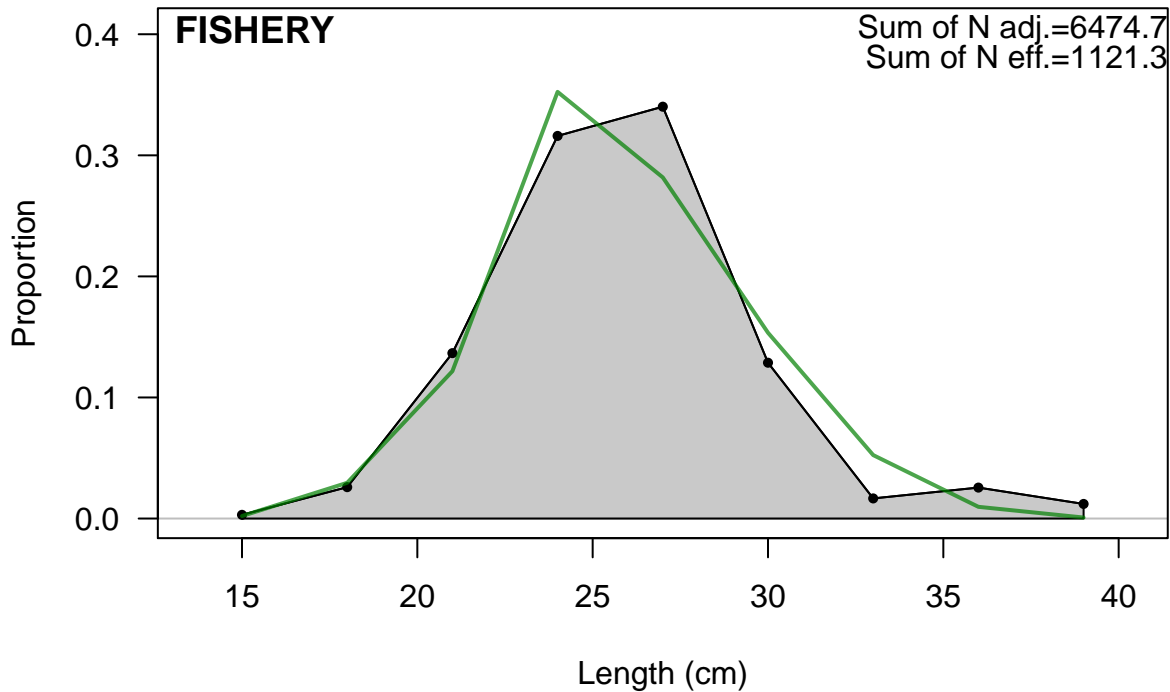


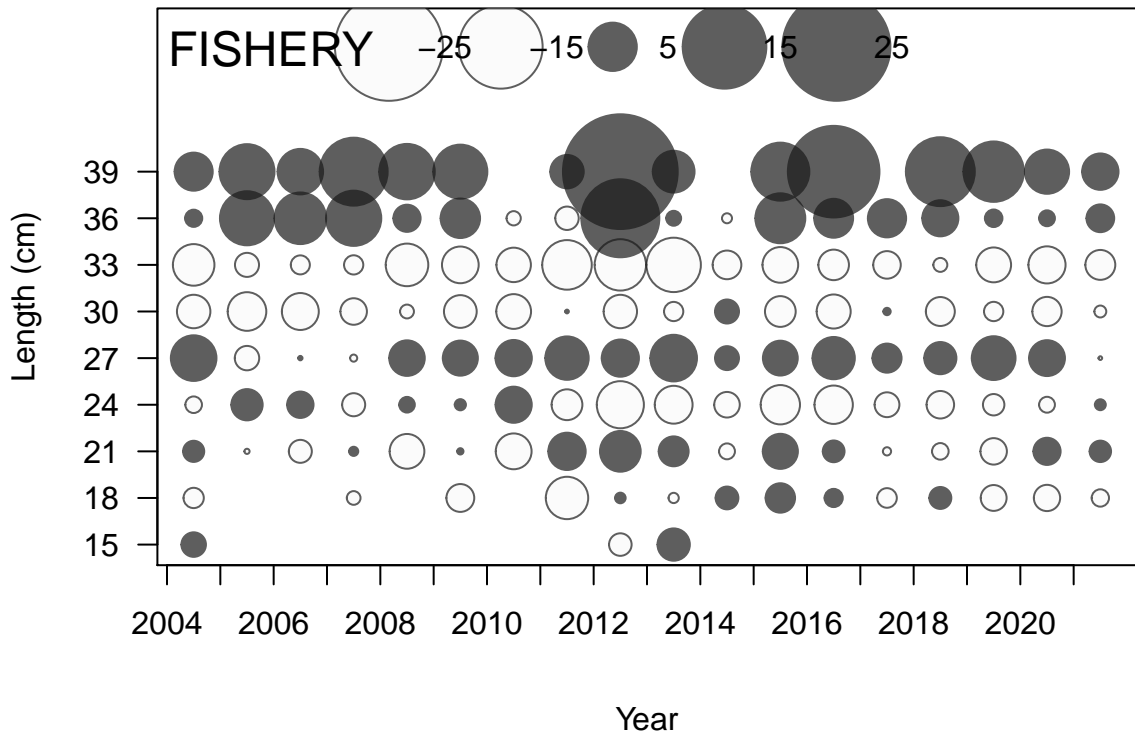




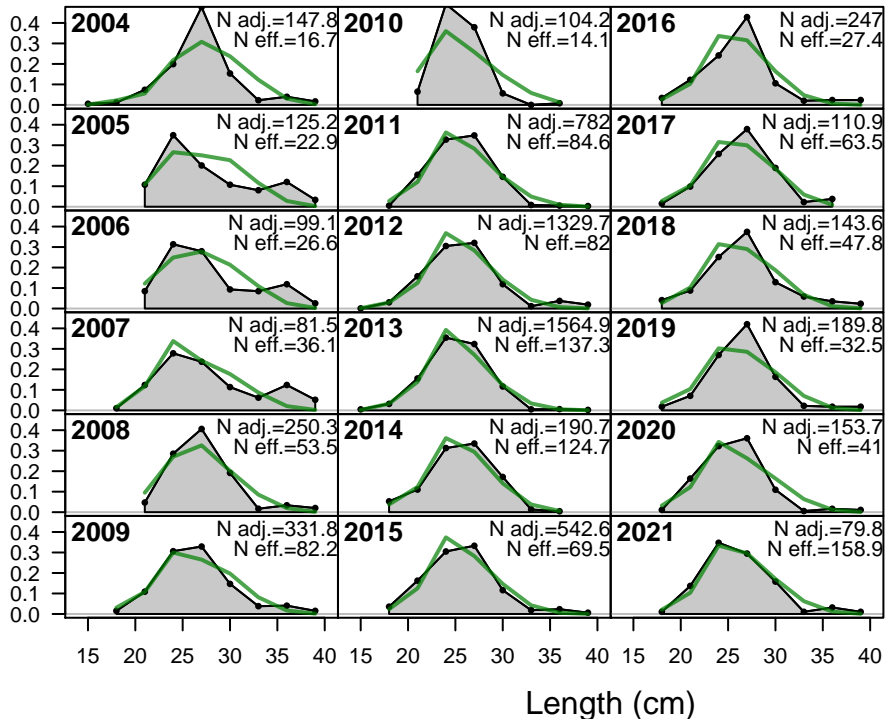
## FISHERY (whole catch)



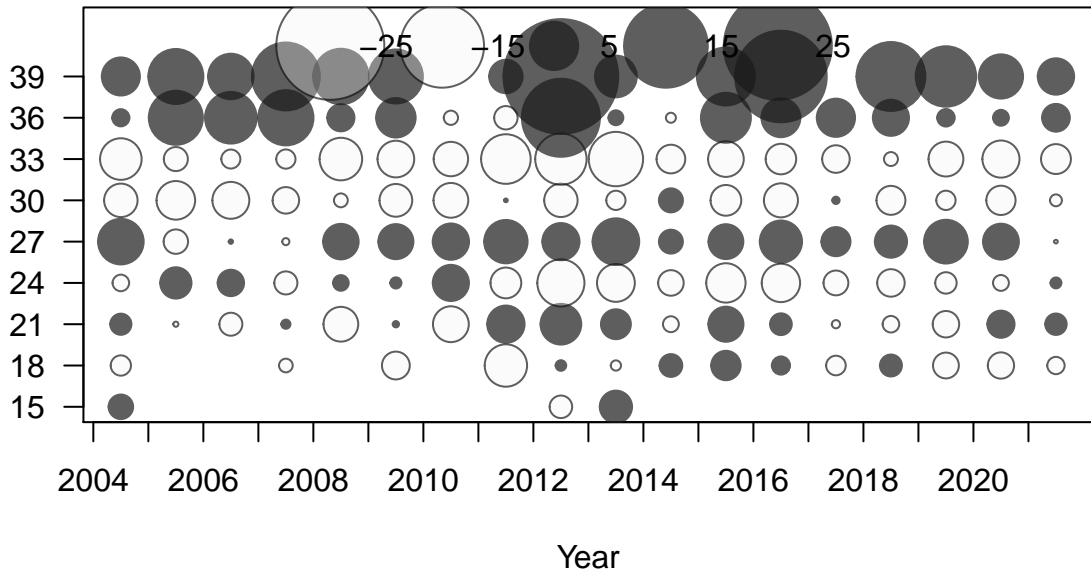




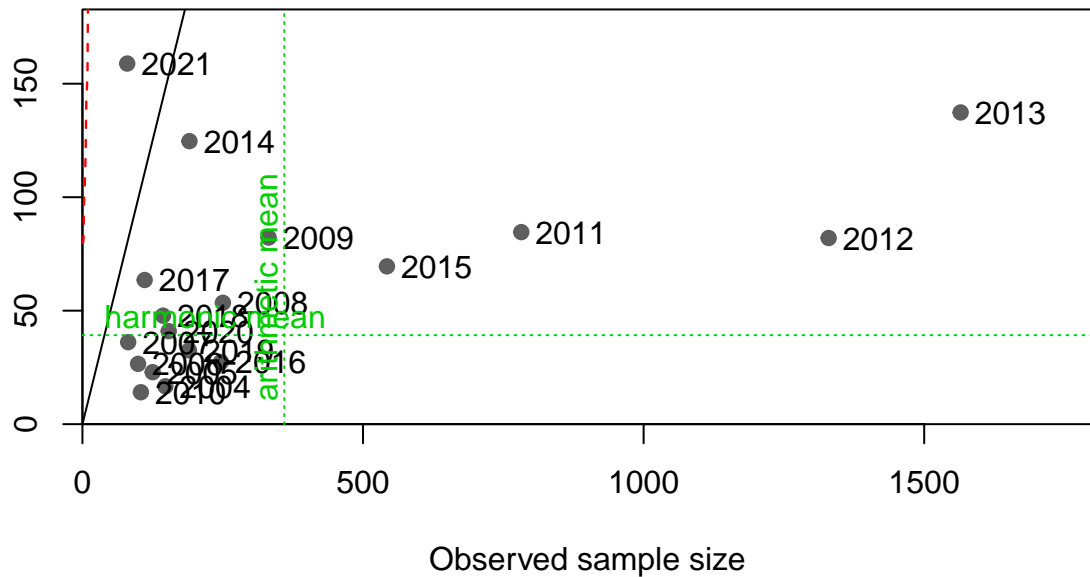
Proportion



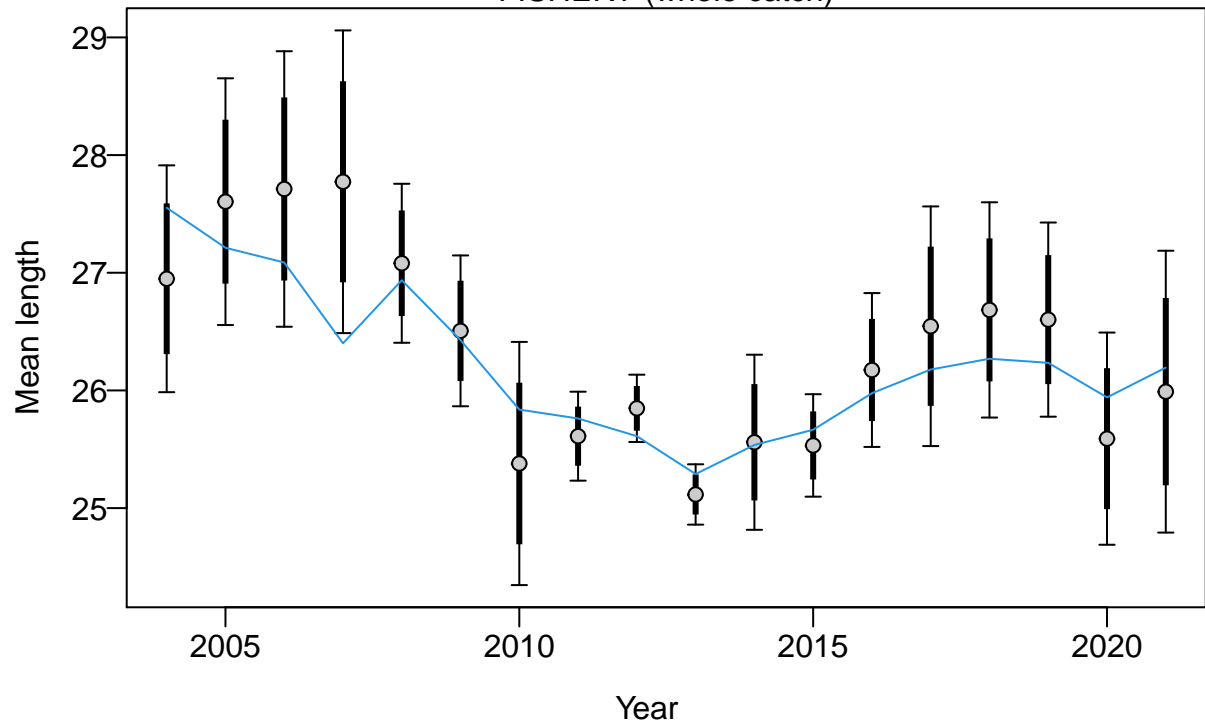
Length (cm)

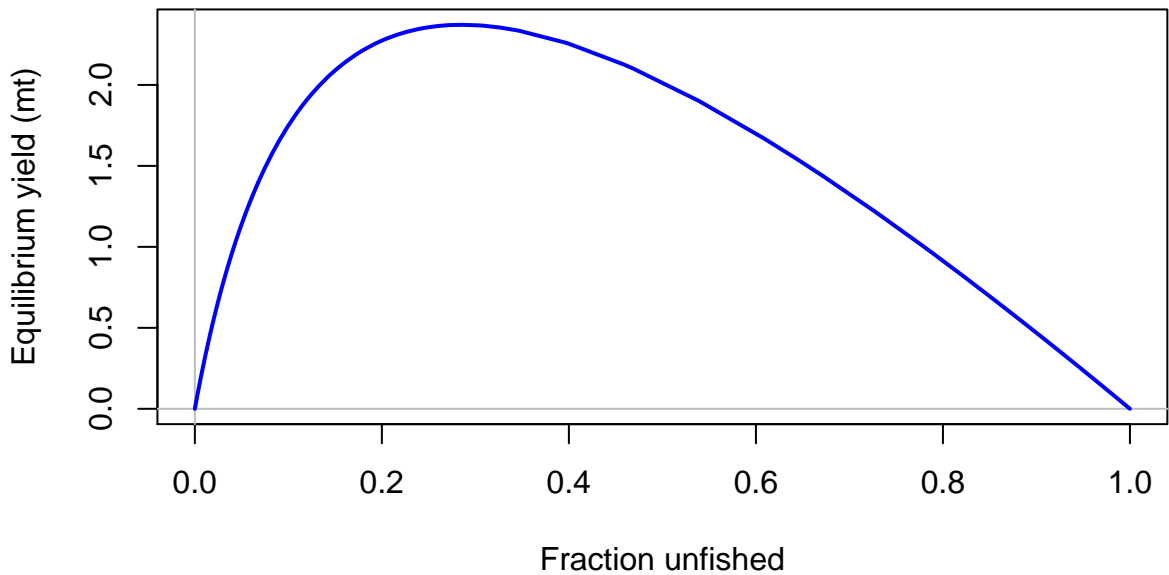


Effective sample size

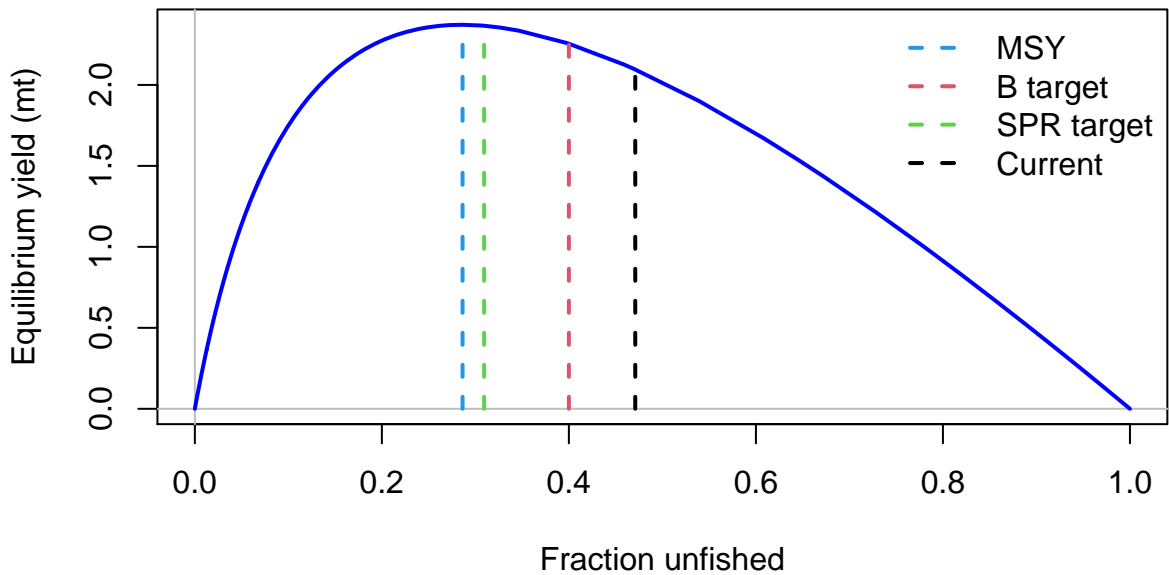


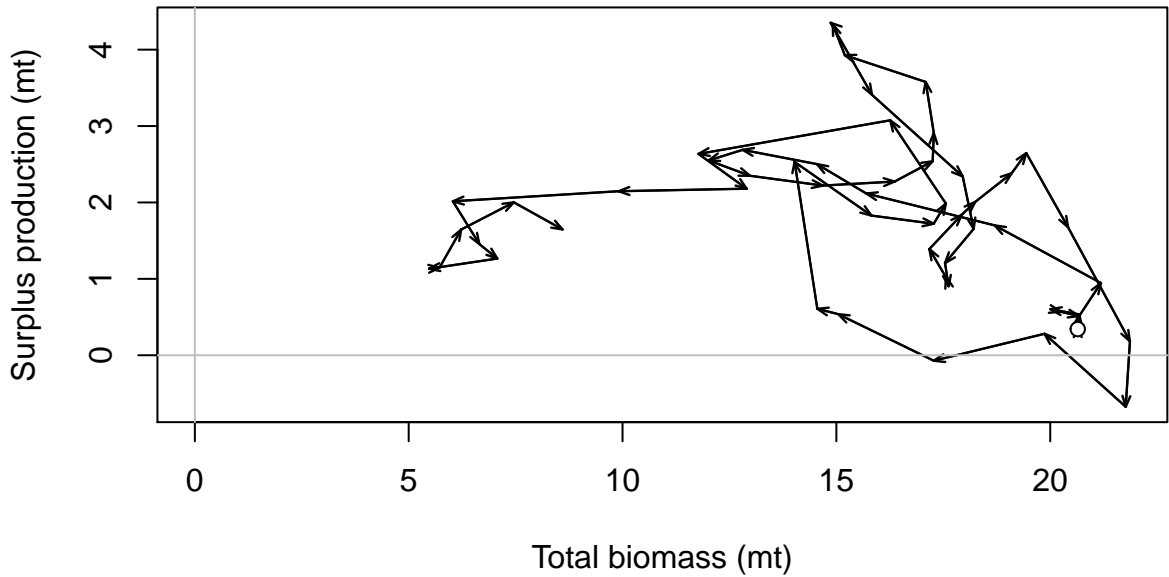
## FISHERY (whole catch)

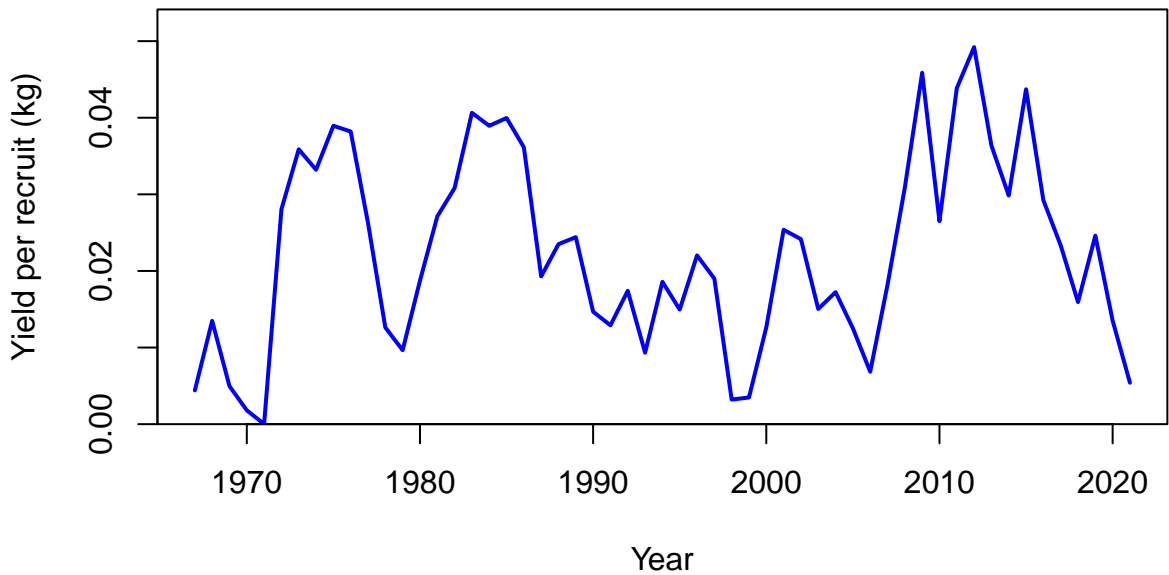


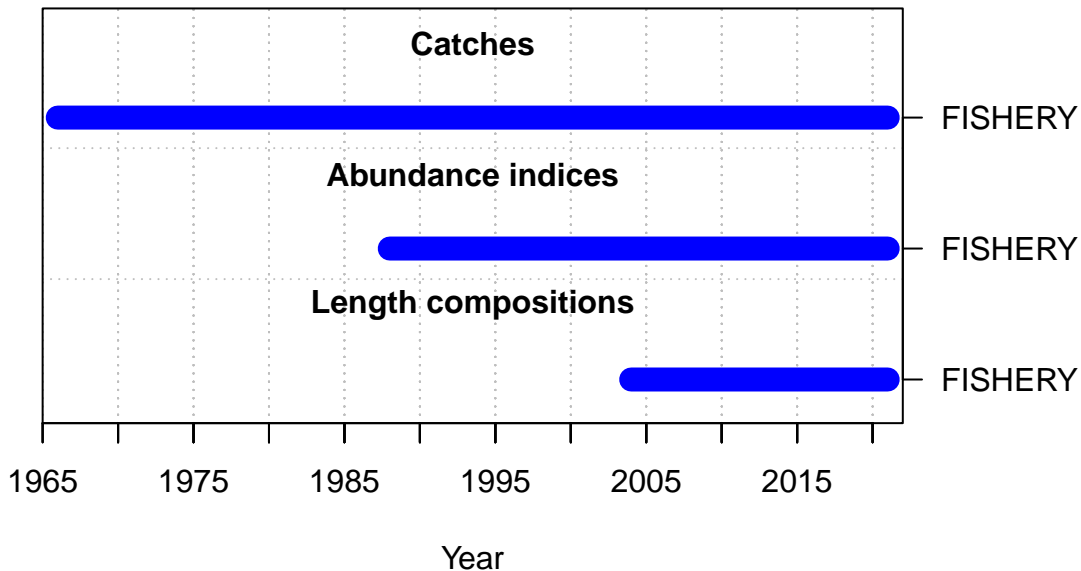


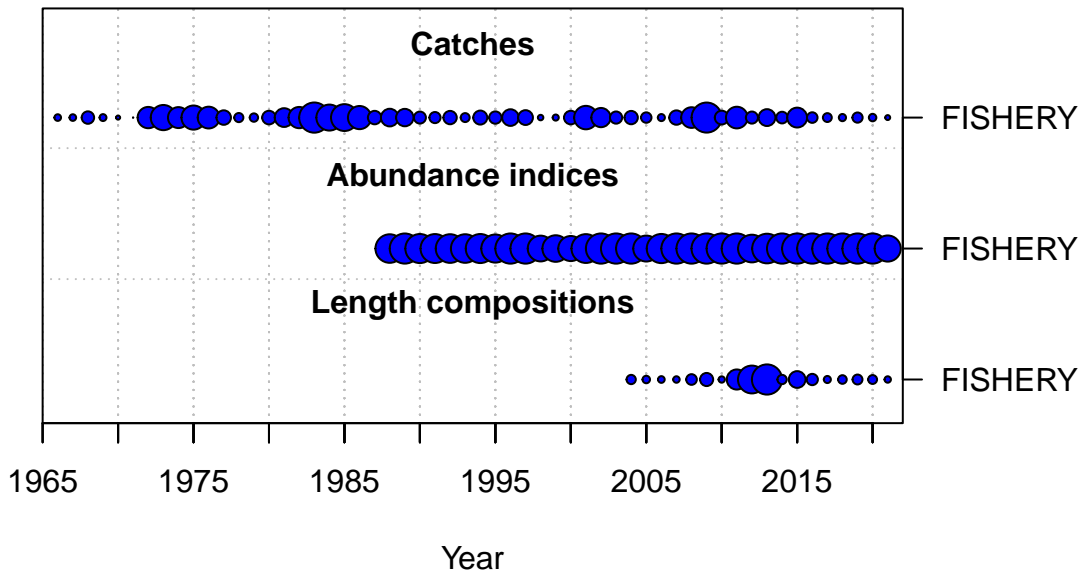




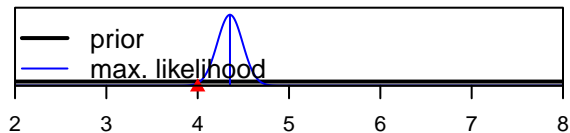








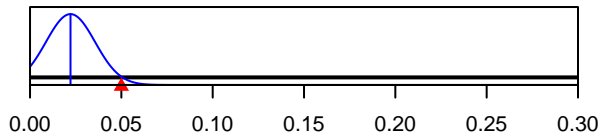
SR\_LN(R0)



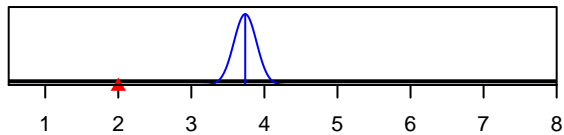
Size\_inflection\_FISHERY(1)



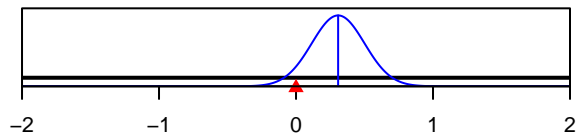
InitF\_seas\_1\_flt\_1FISHERY



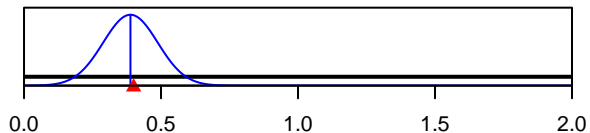
Size\_95%width\_FISHERY(1)



LnQ\_base\_FISHERY(1)



Q\_extraSD\_FISHERY(1)



Parameter value