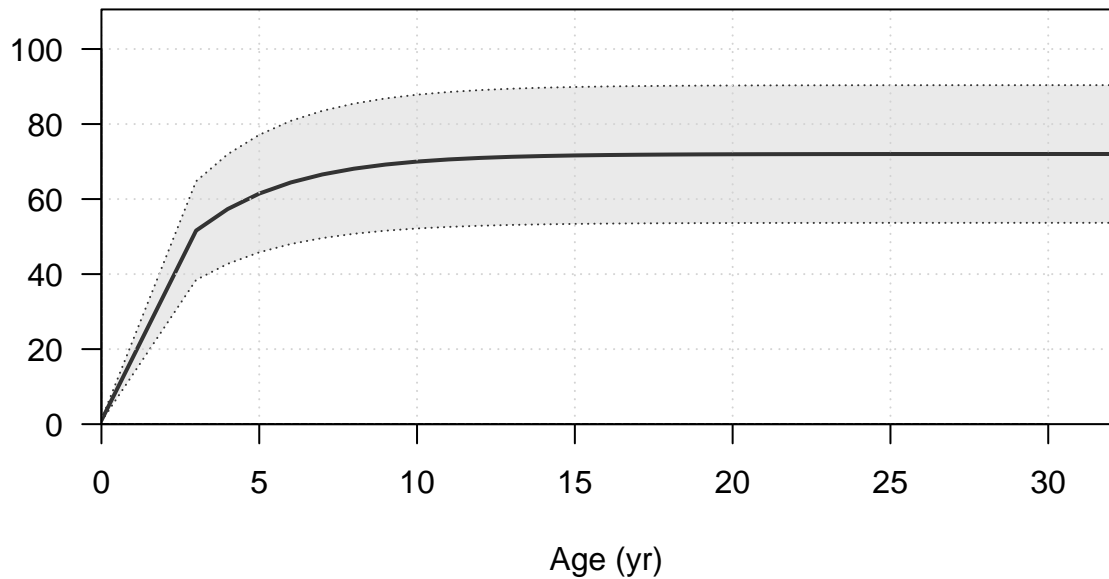
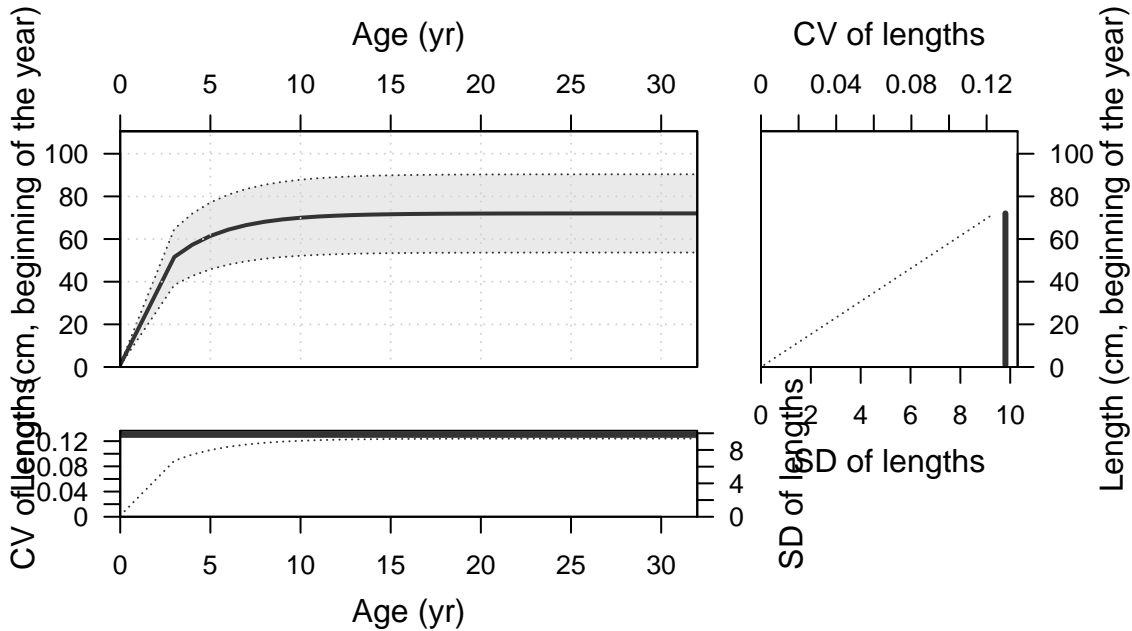
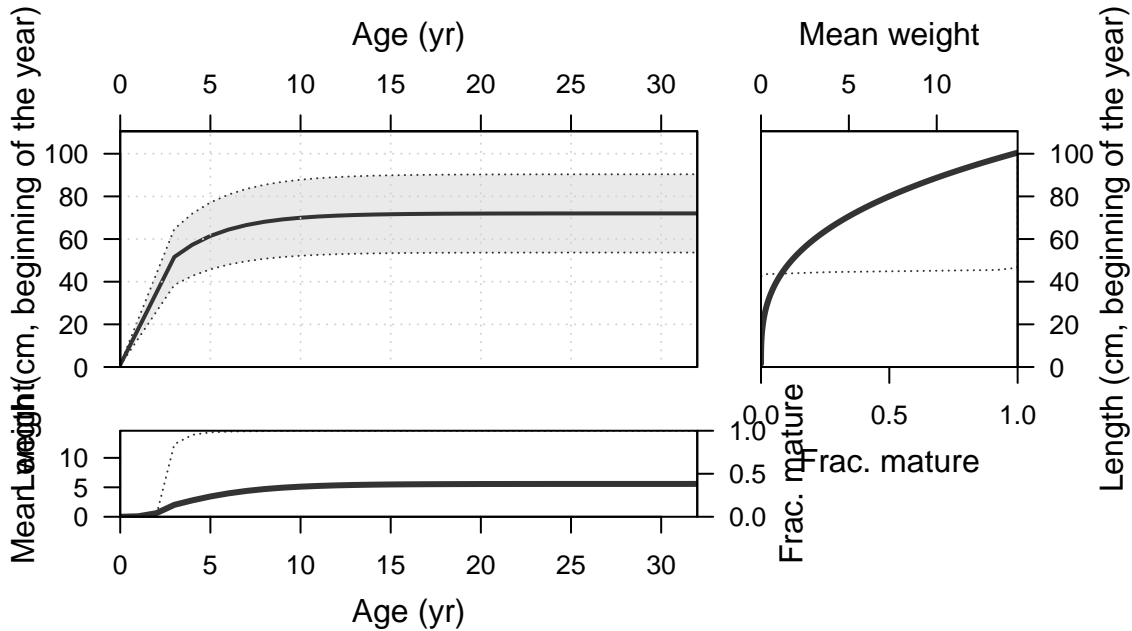


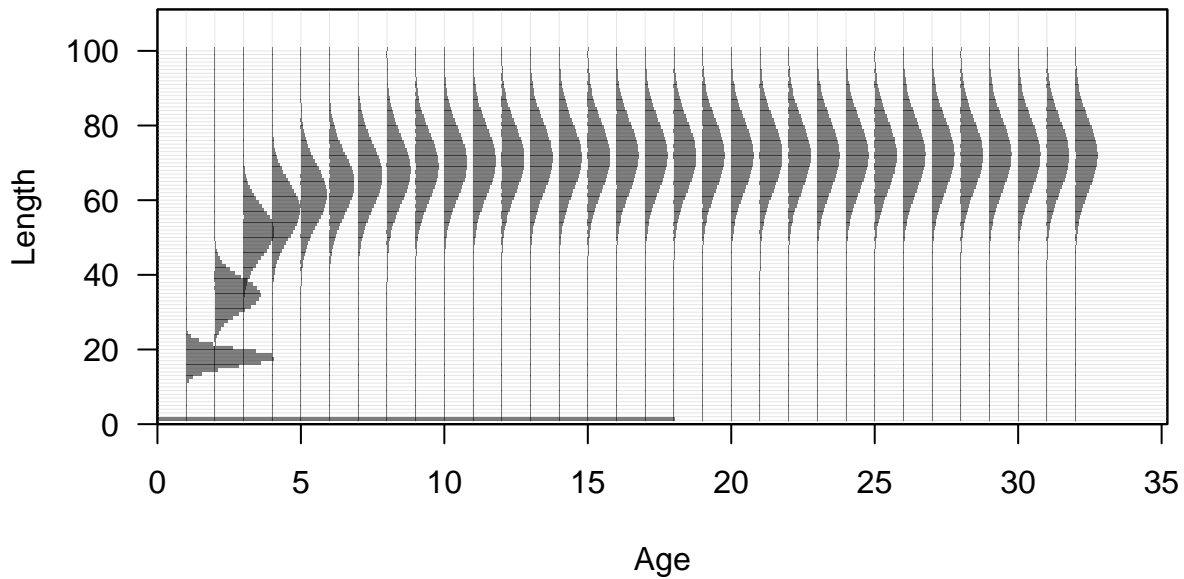
Plots created using the 'r4ss' package in R  
Stock Synthesis version: 3.30.19.0  
StartTime: Fri Jul 08 10:43:32 2022  
Data\_File: data.ss  
Control\_File: control.ss

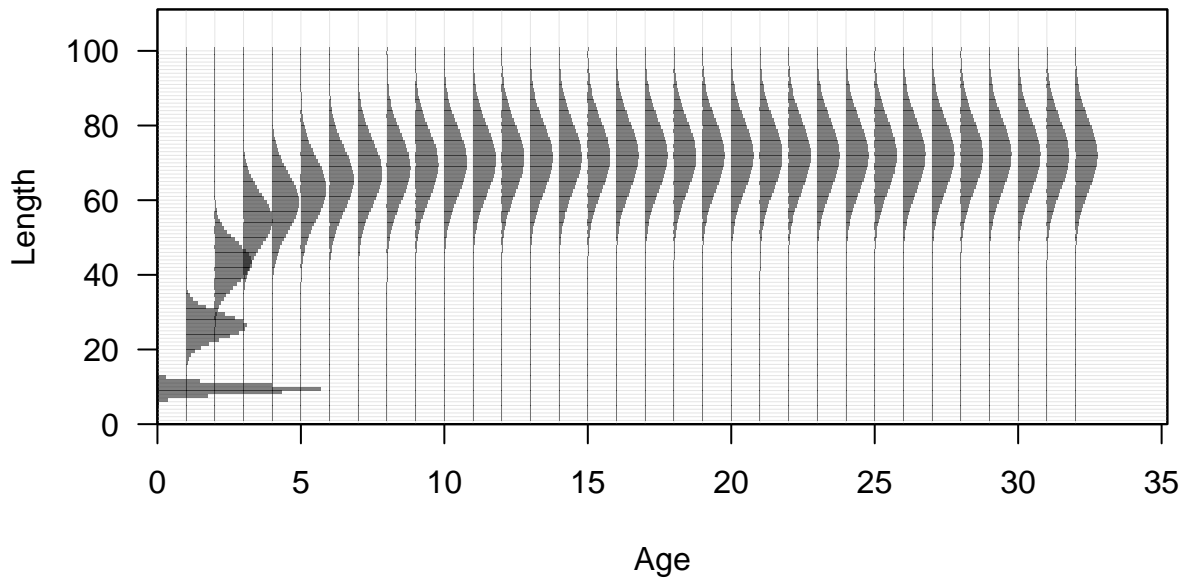
Length (cm, beginning of the year)



















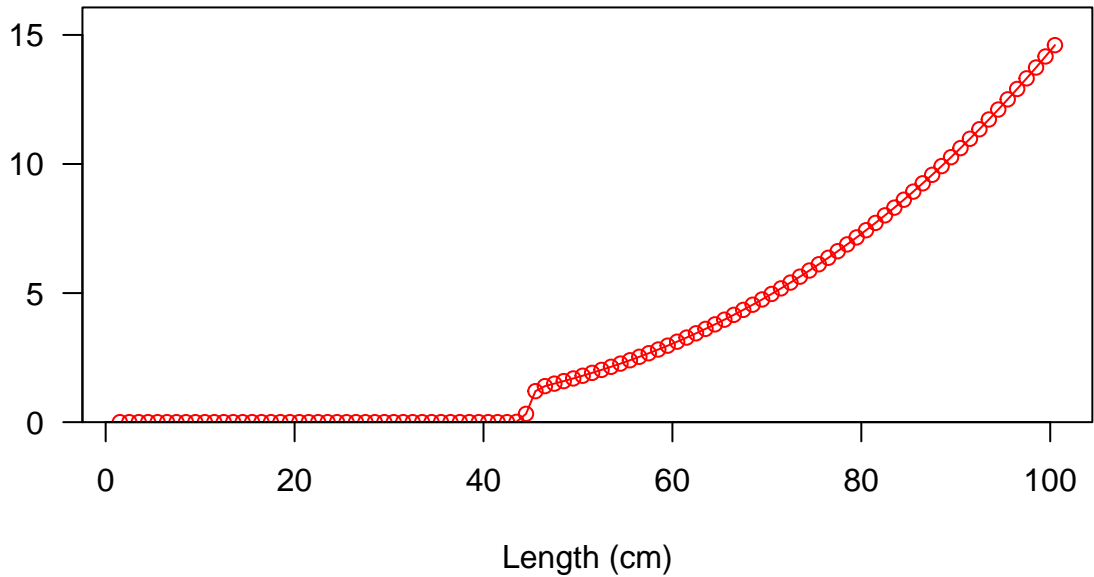
Fecundity



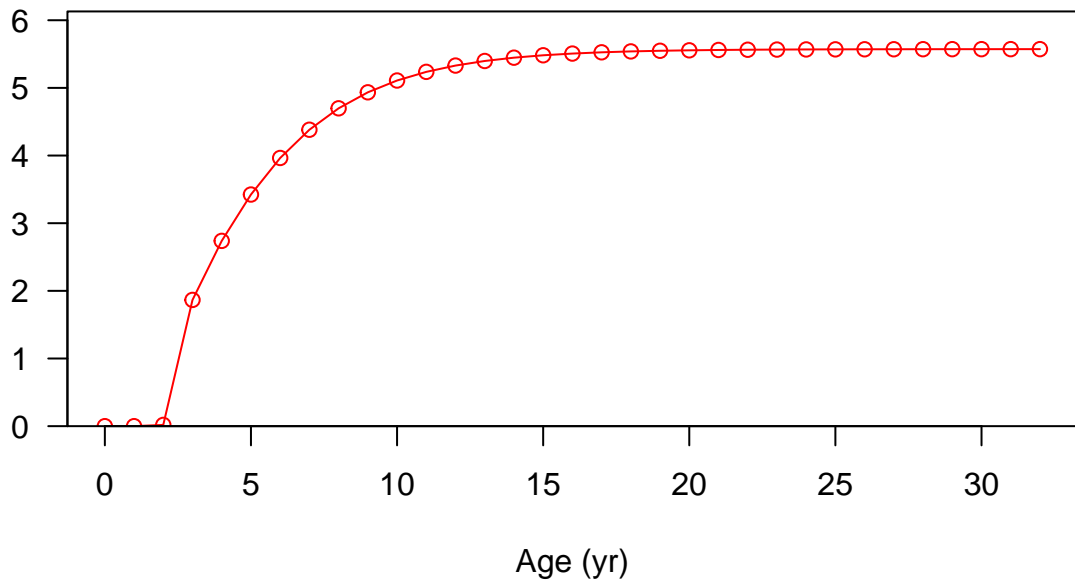
Fecundity



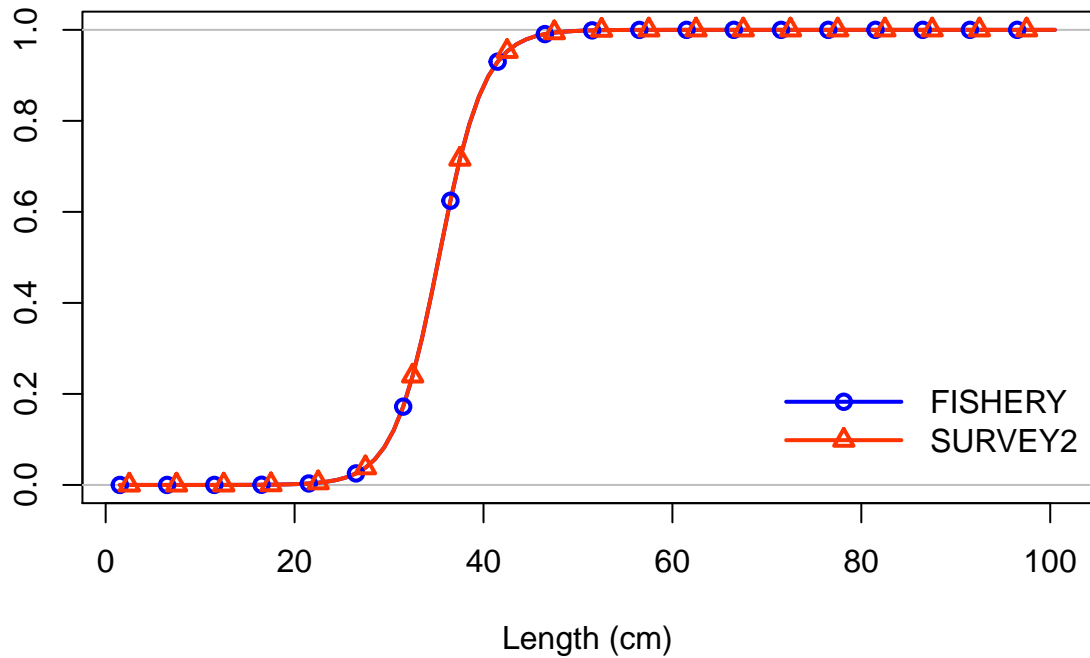
Spawning output



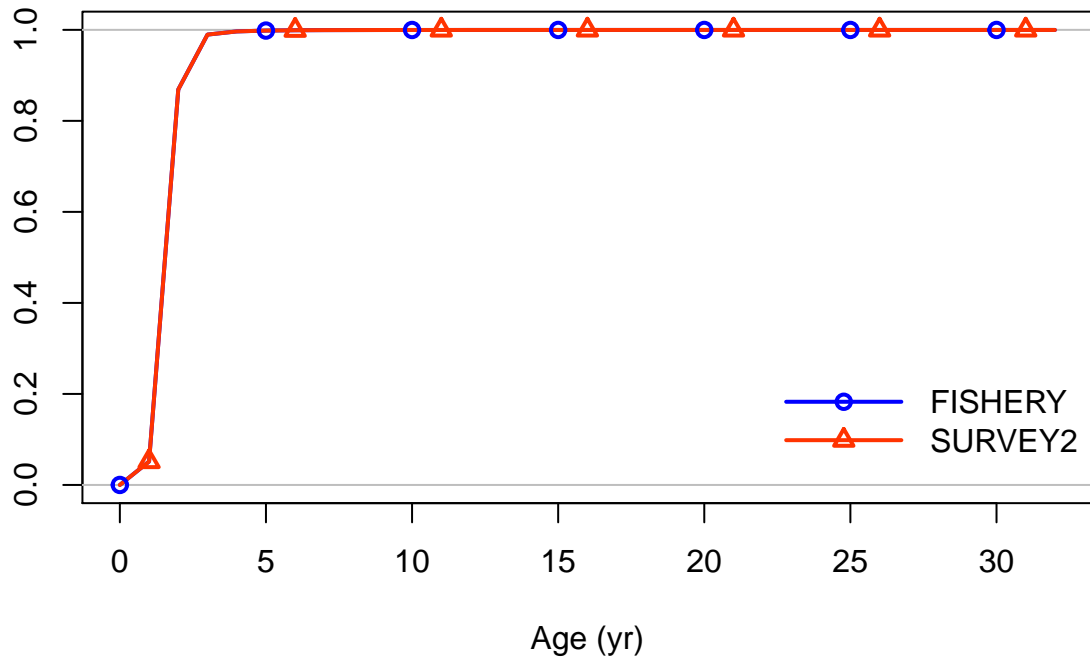
Spawning output



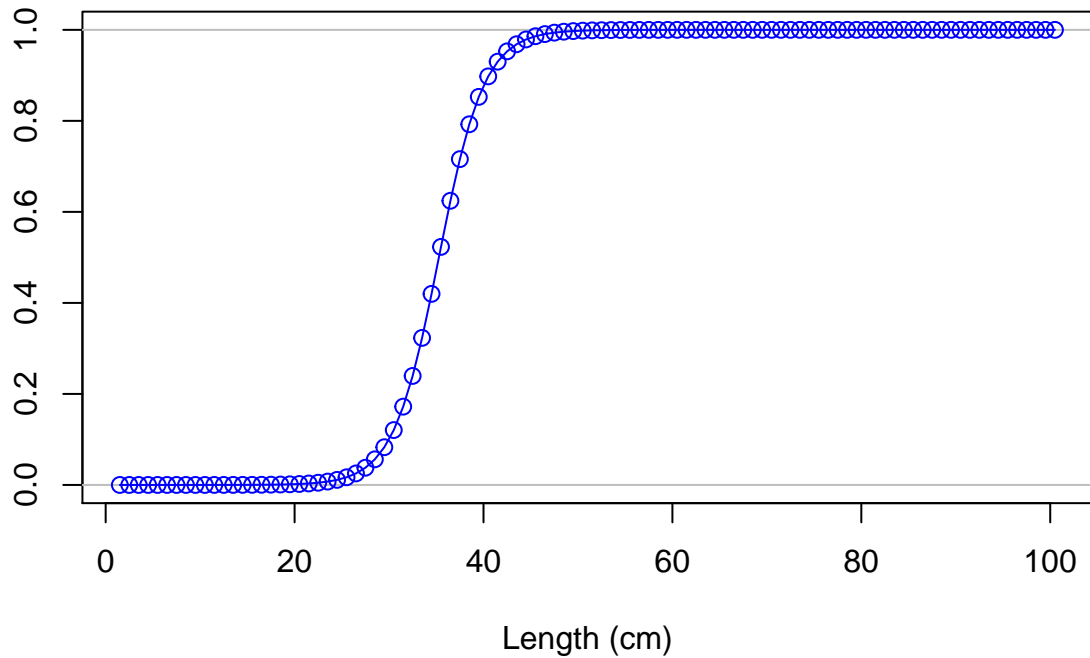
Selectivity



Selectivity

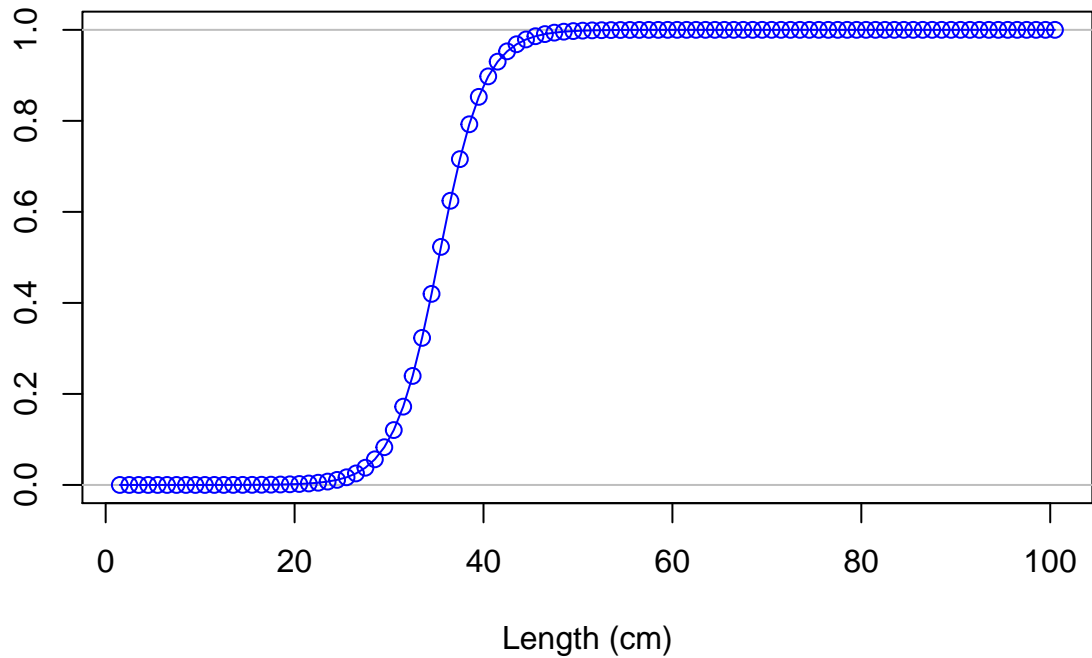


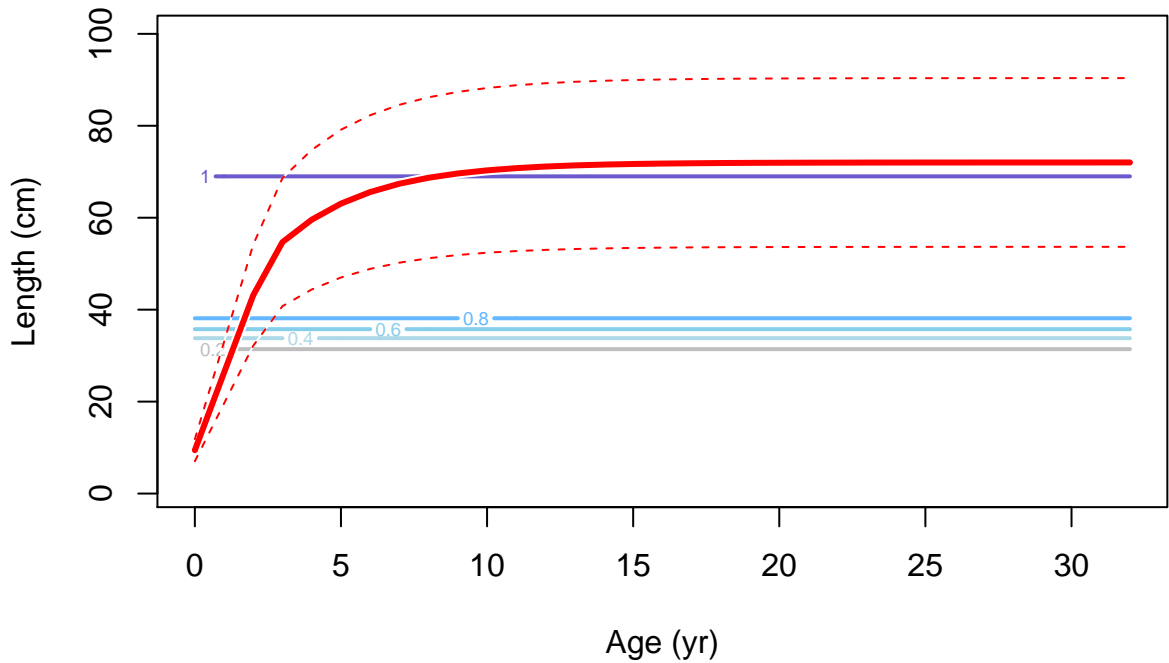
Selectivity

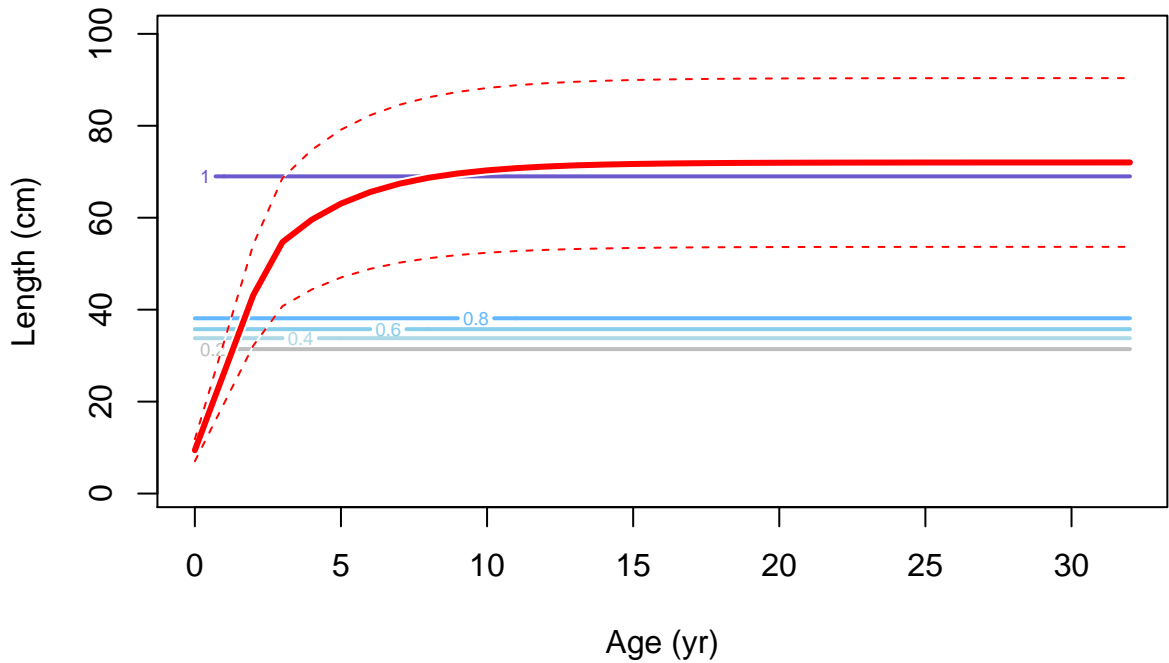


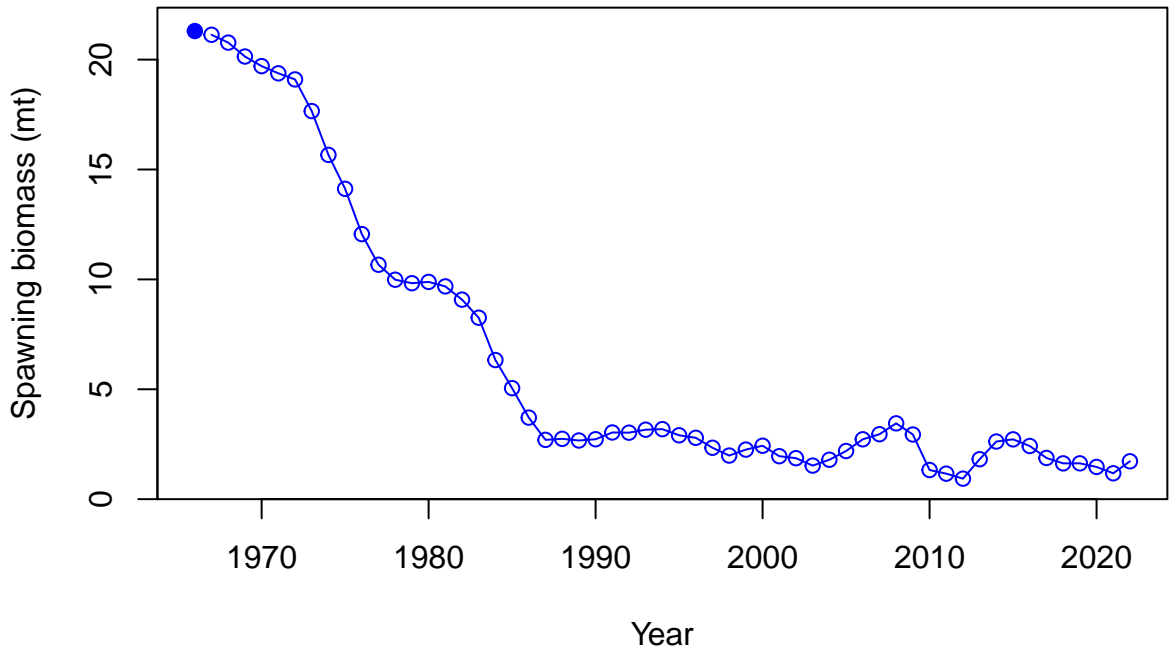


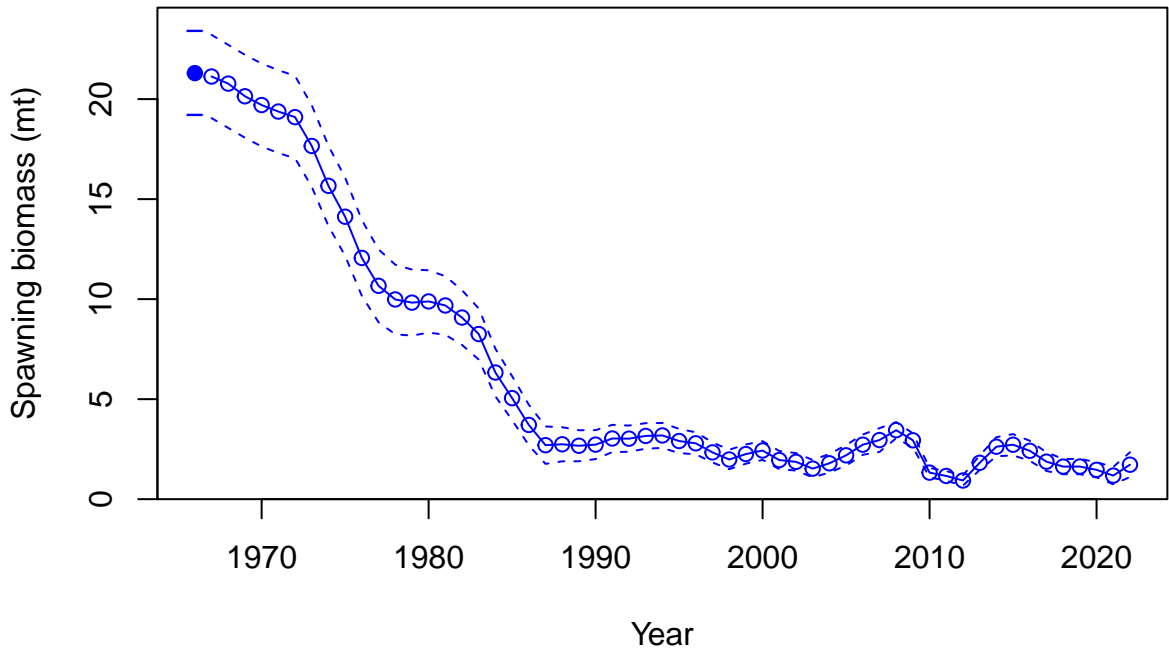
Selectivity



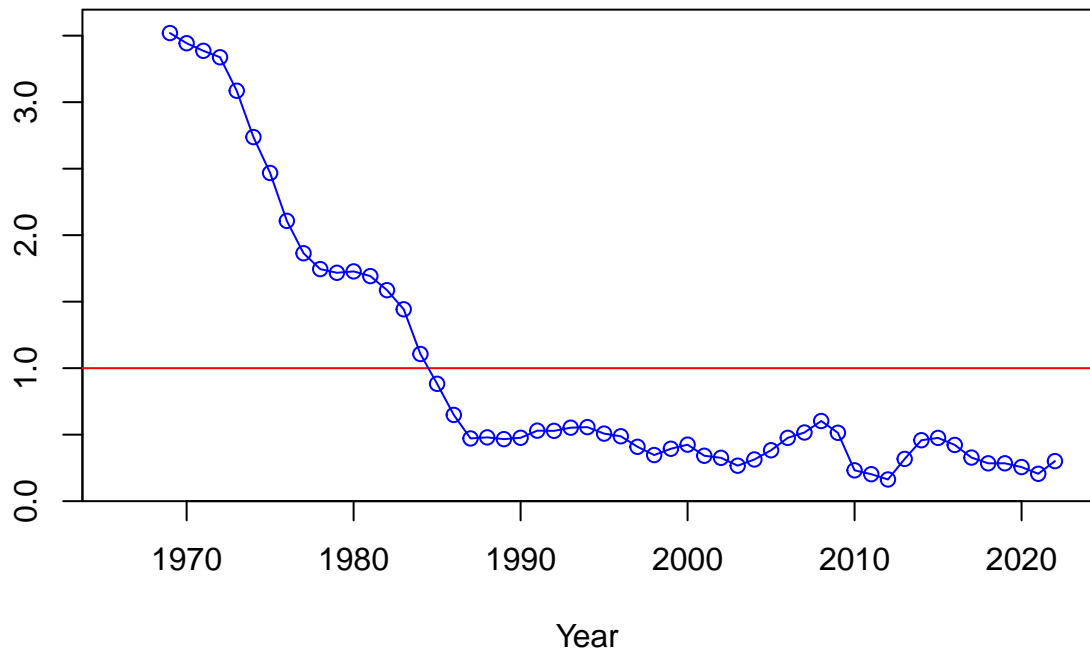




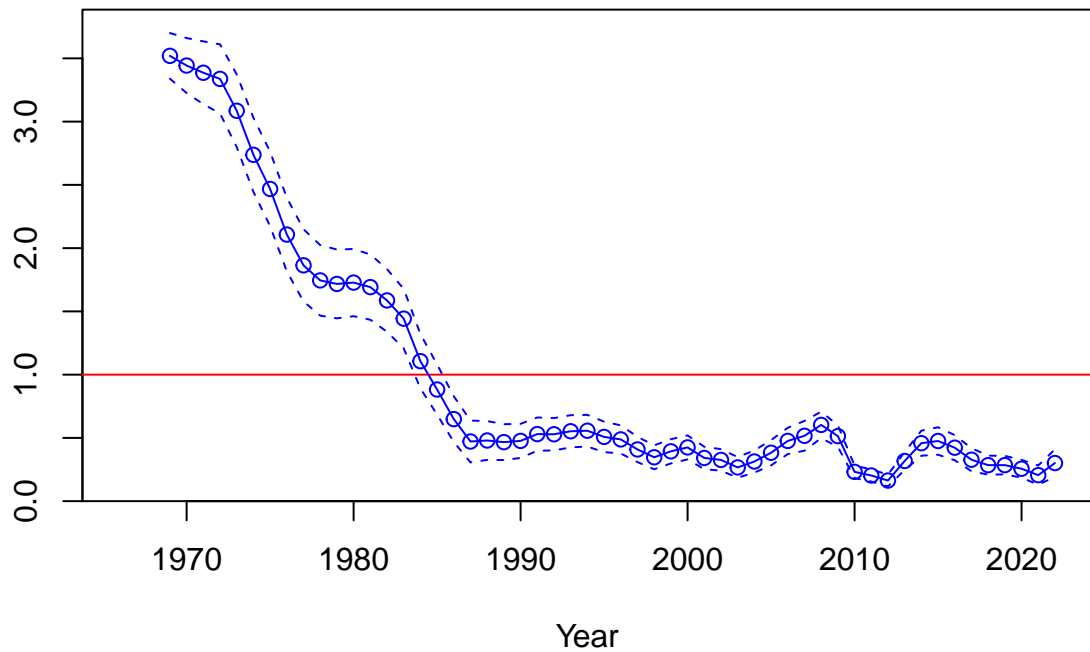


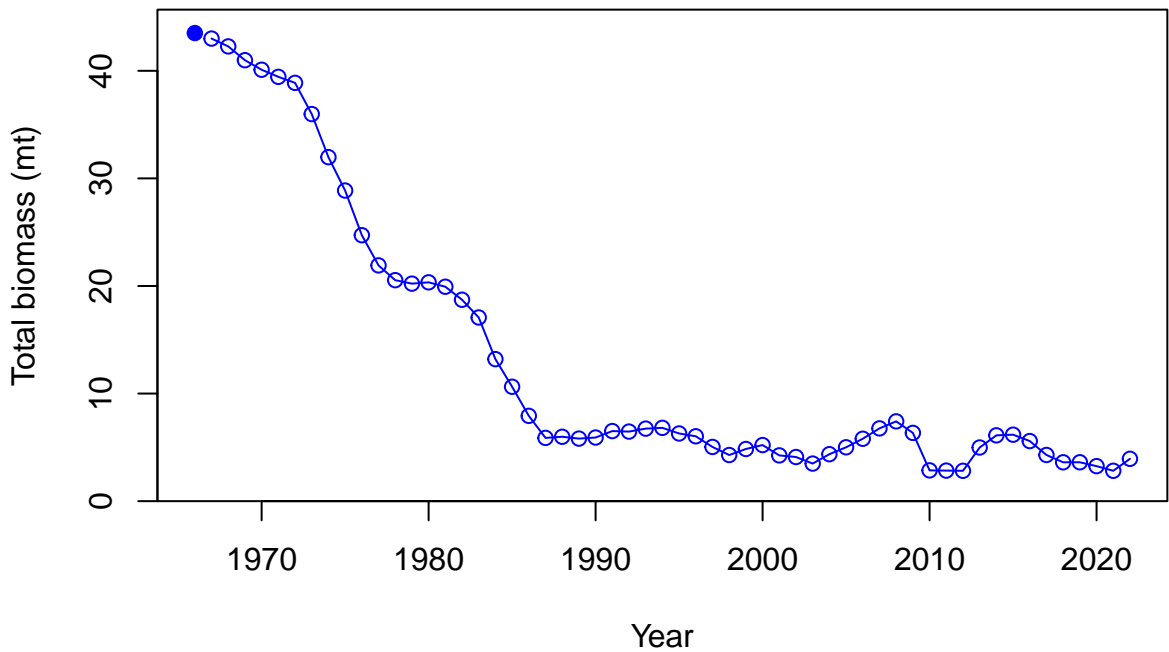


Relative spawning biomass:  $B/B_{MSY}$

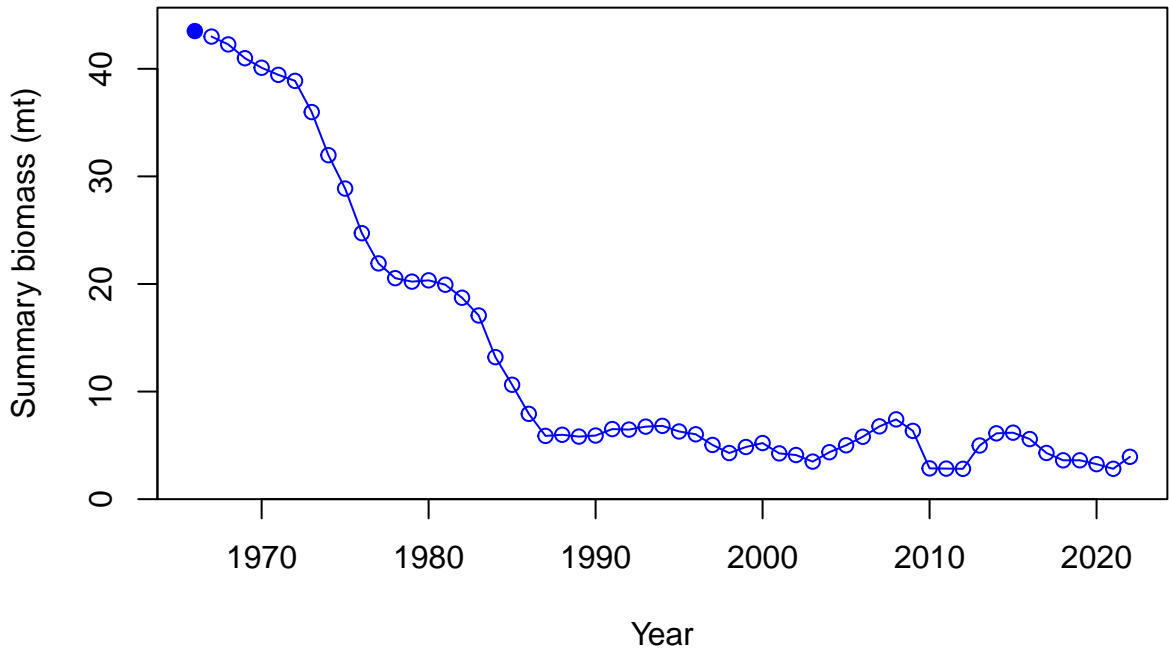


Relative spawning biomass:  $B/B_{MSY}$

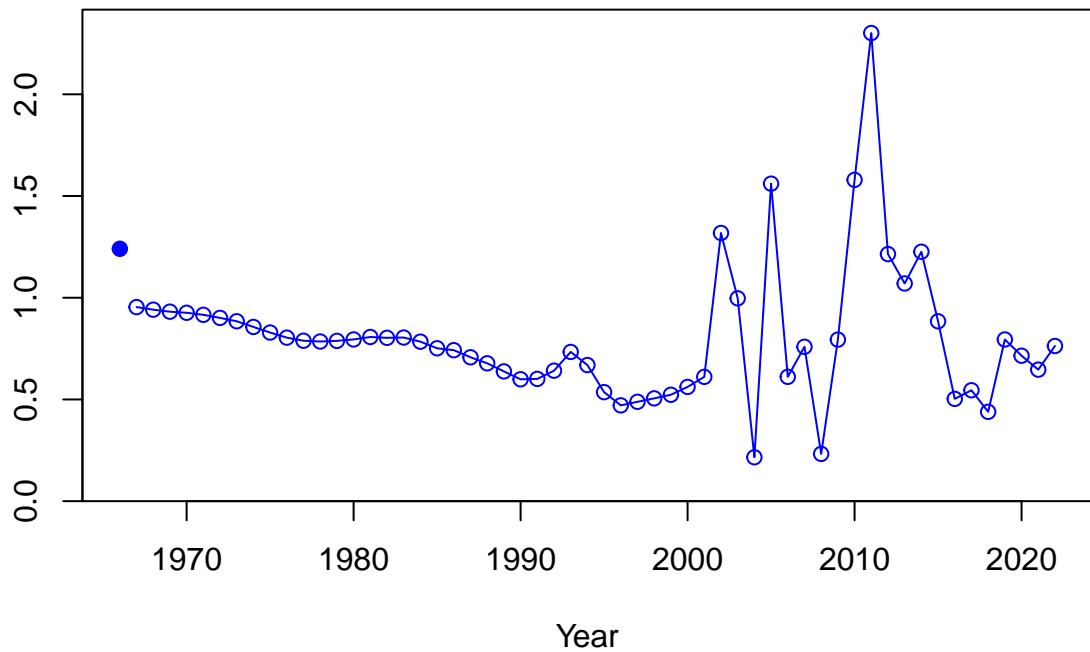




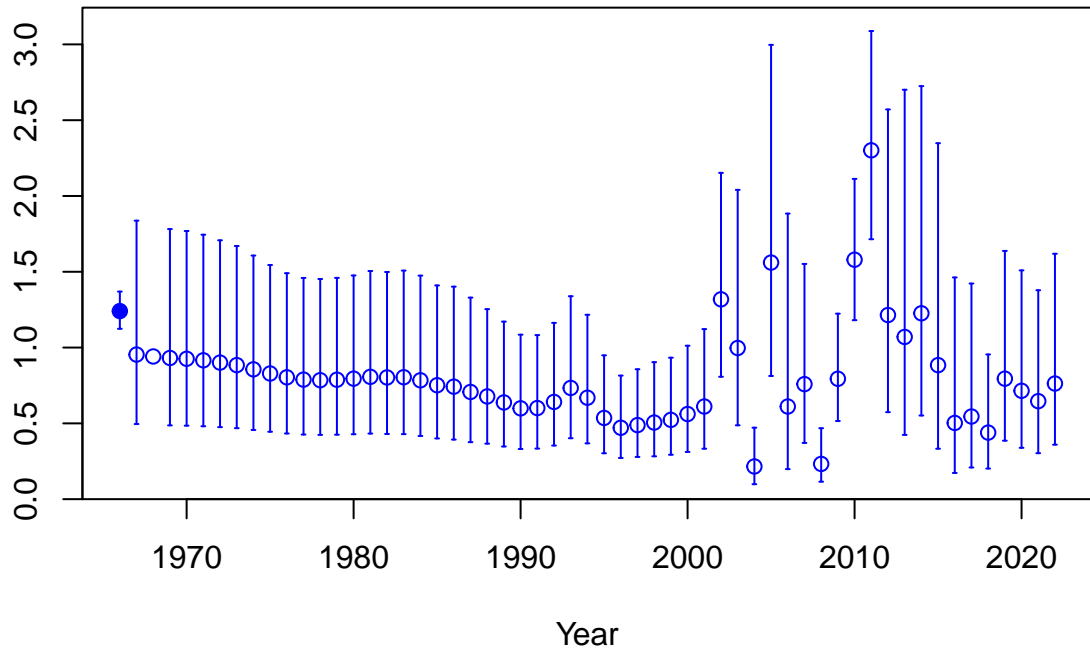




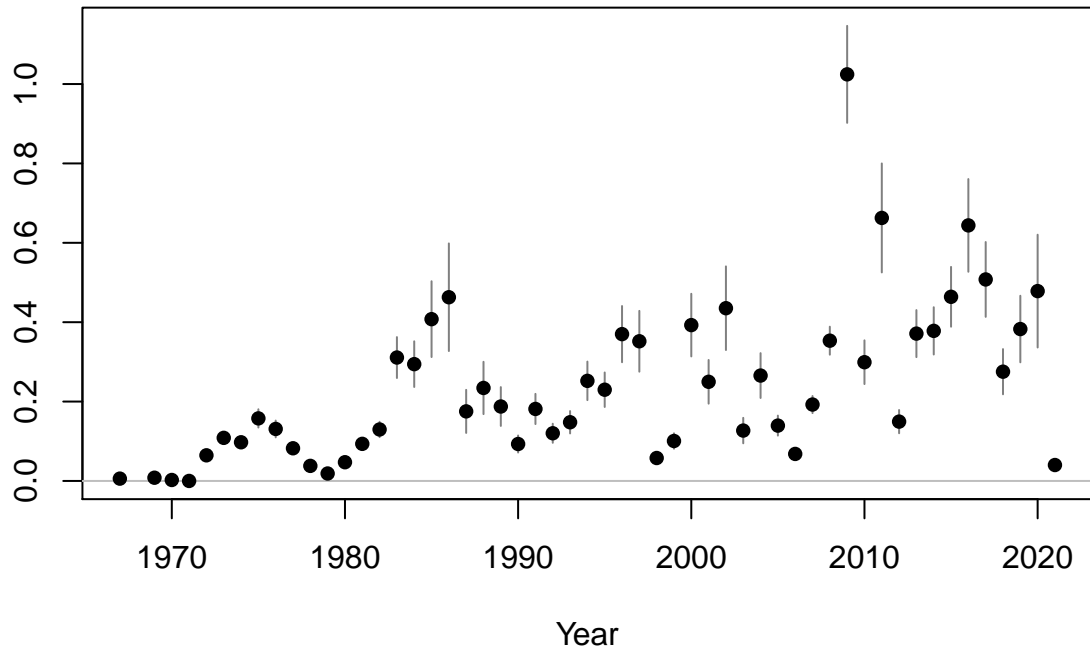
Age-0 recruits (1,000s)

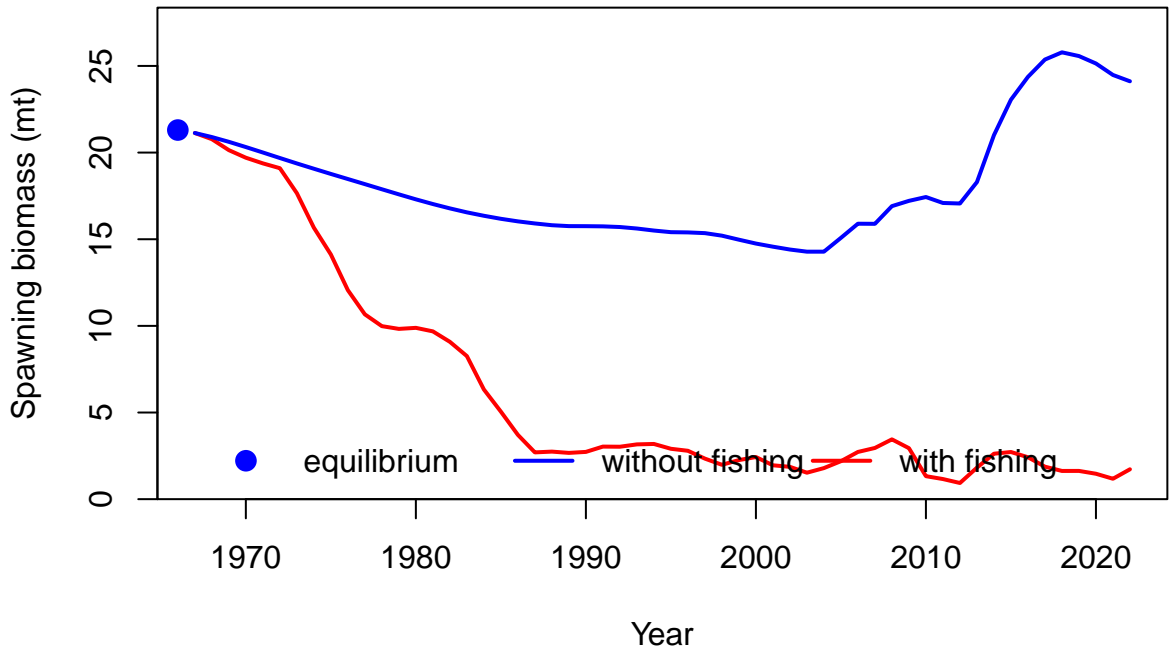


Age-0 recruits (1,000s)



Summary Fishing Mortality





Log recruitment deviation

-1.0  
0.0  
0.5  
1.0

1970

1980

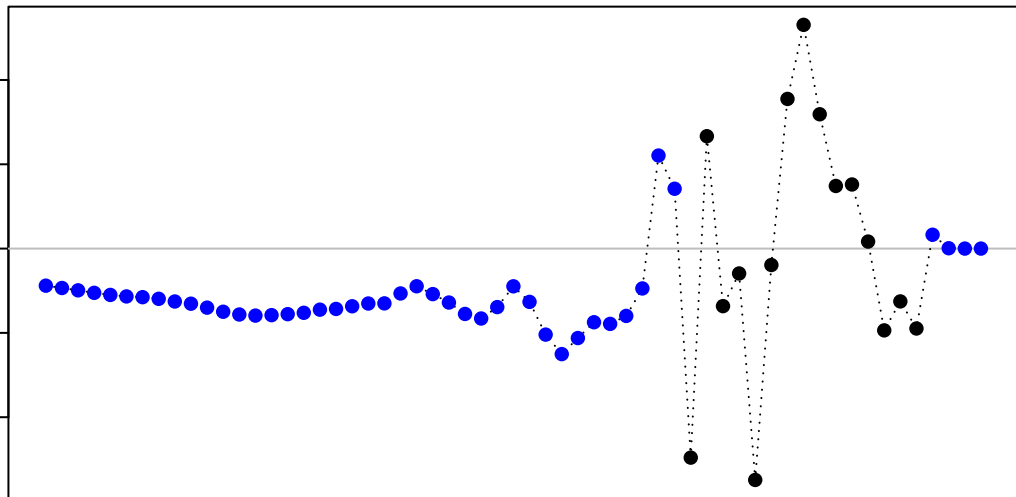
1990

2000

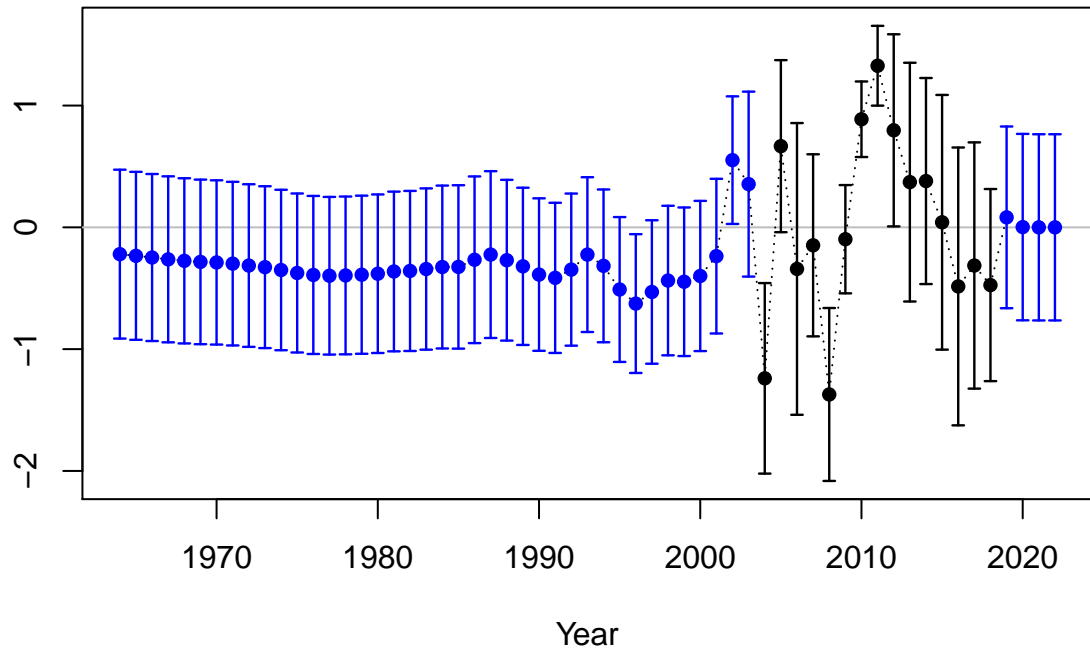
2010

2020

Year

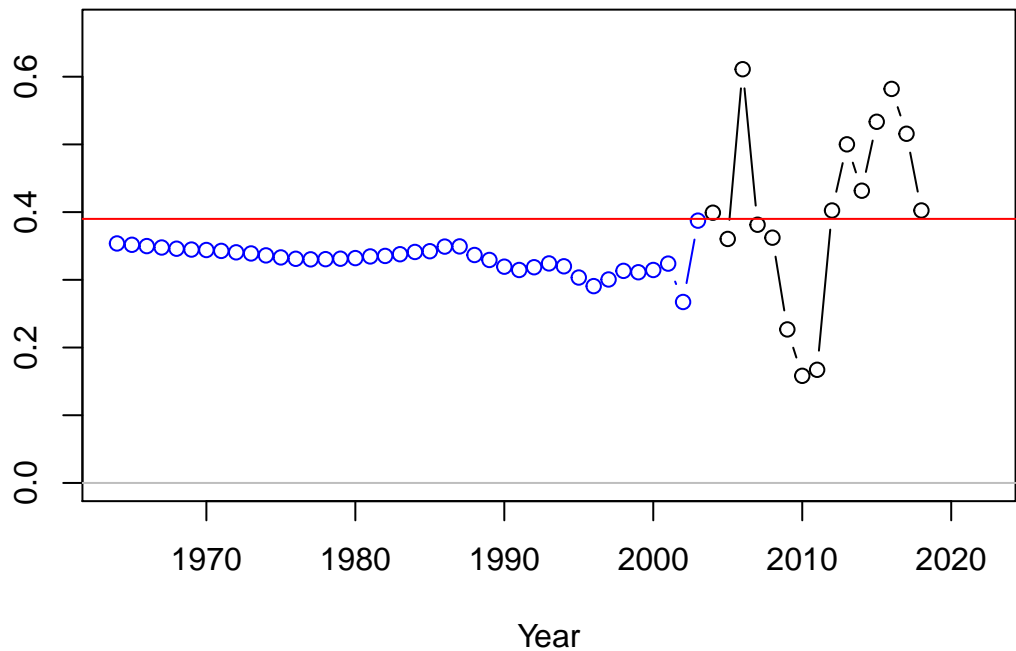


Log recruitment deviation

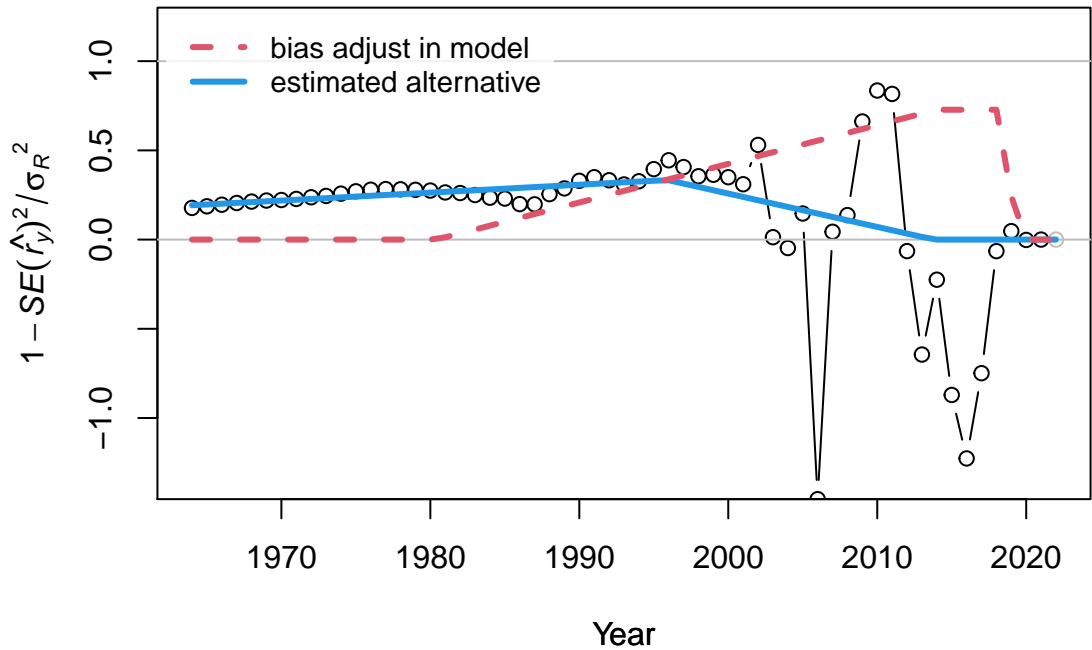


## Recruitment deviation variance

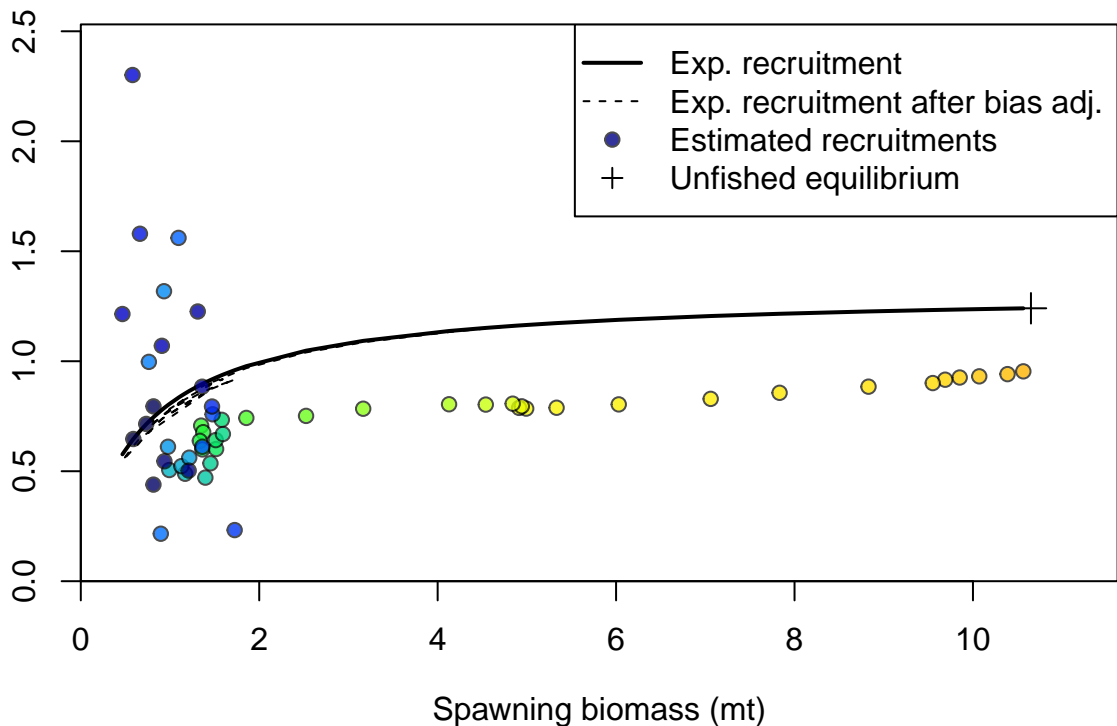
Asymptotic standard error estimate



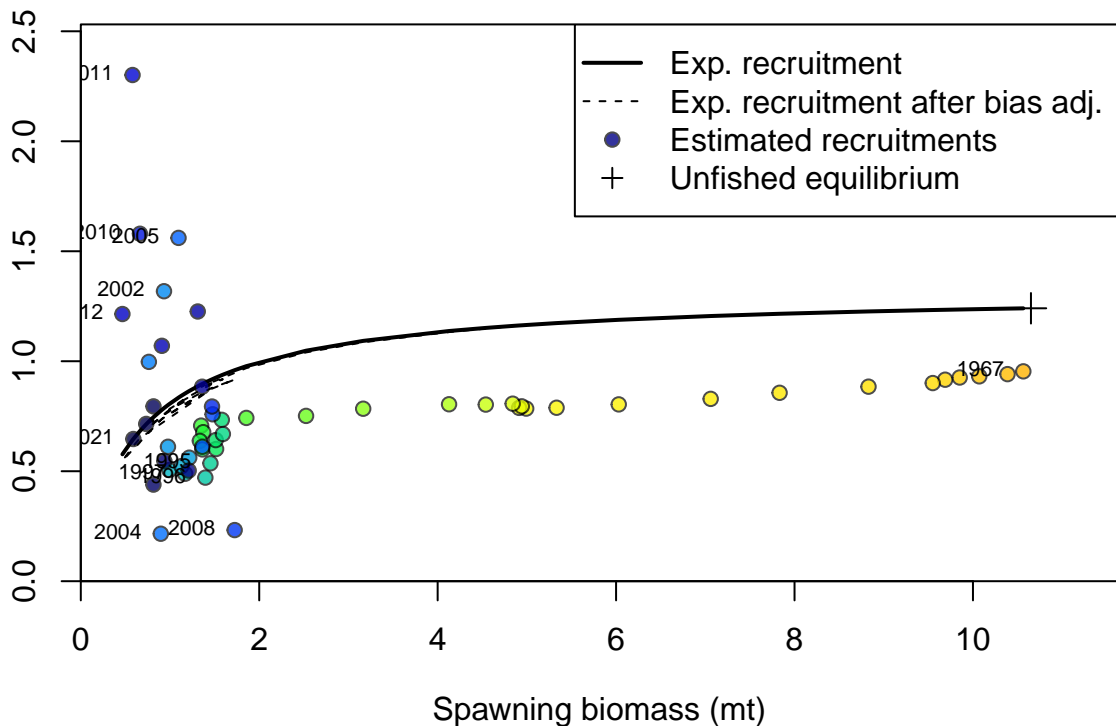


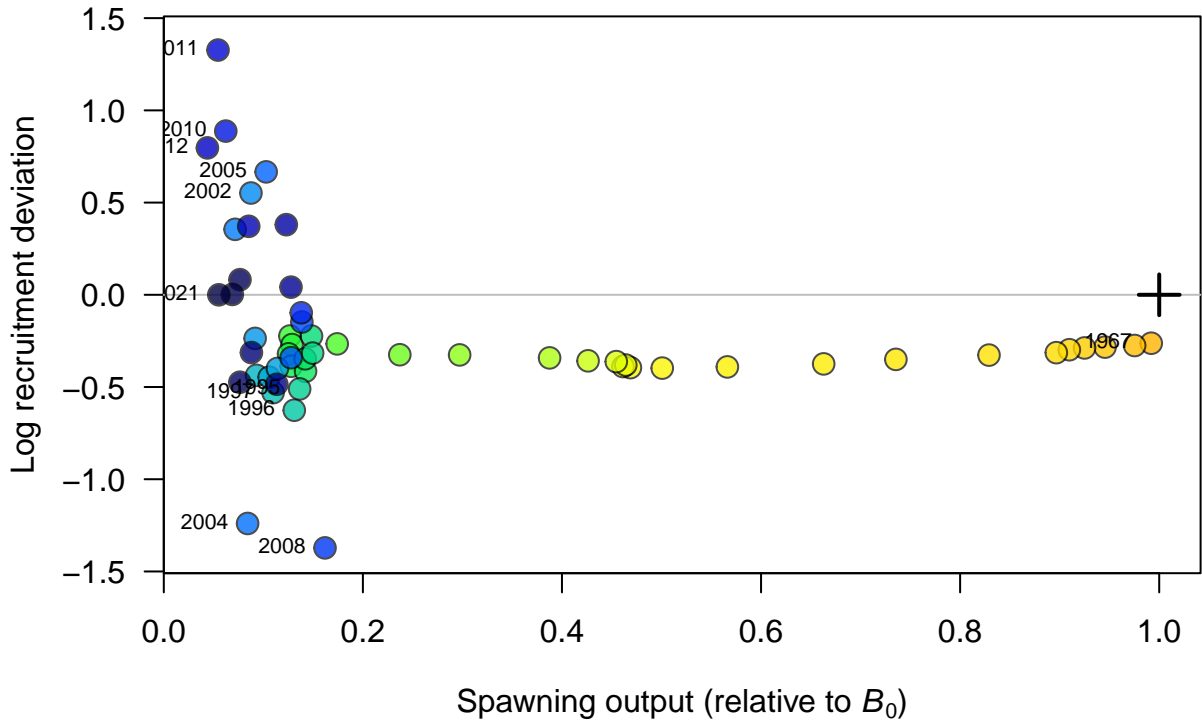


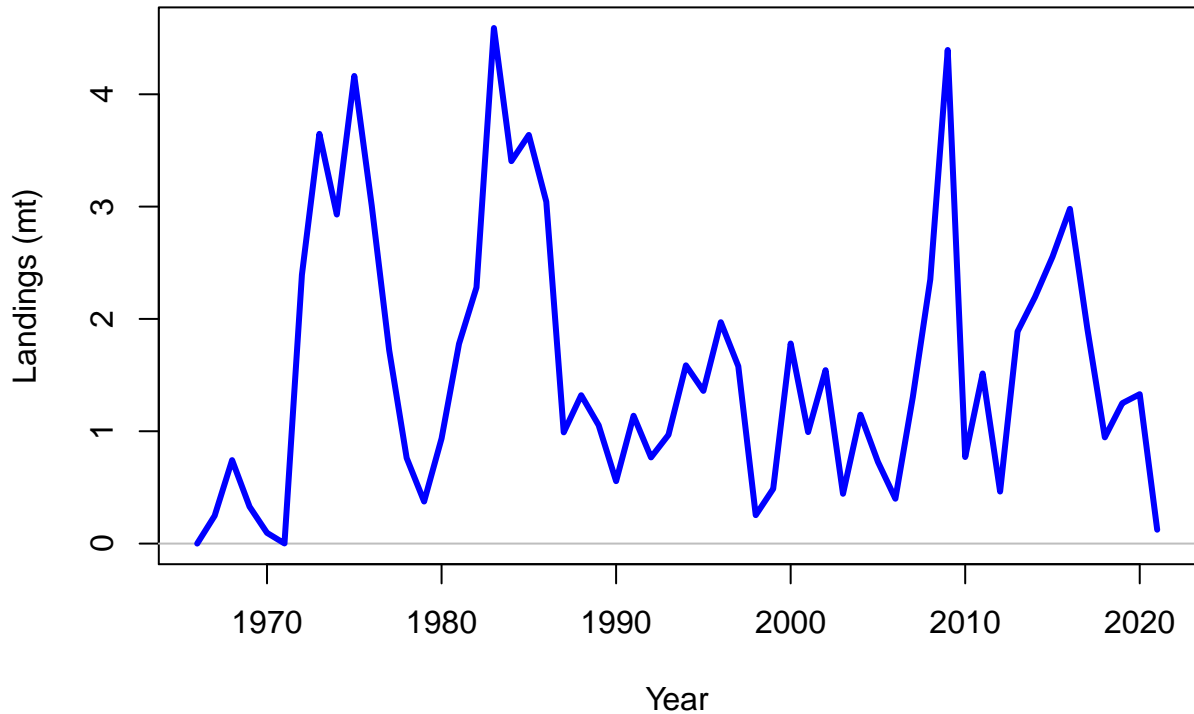
Recruitment (1,000s)

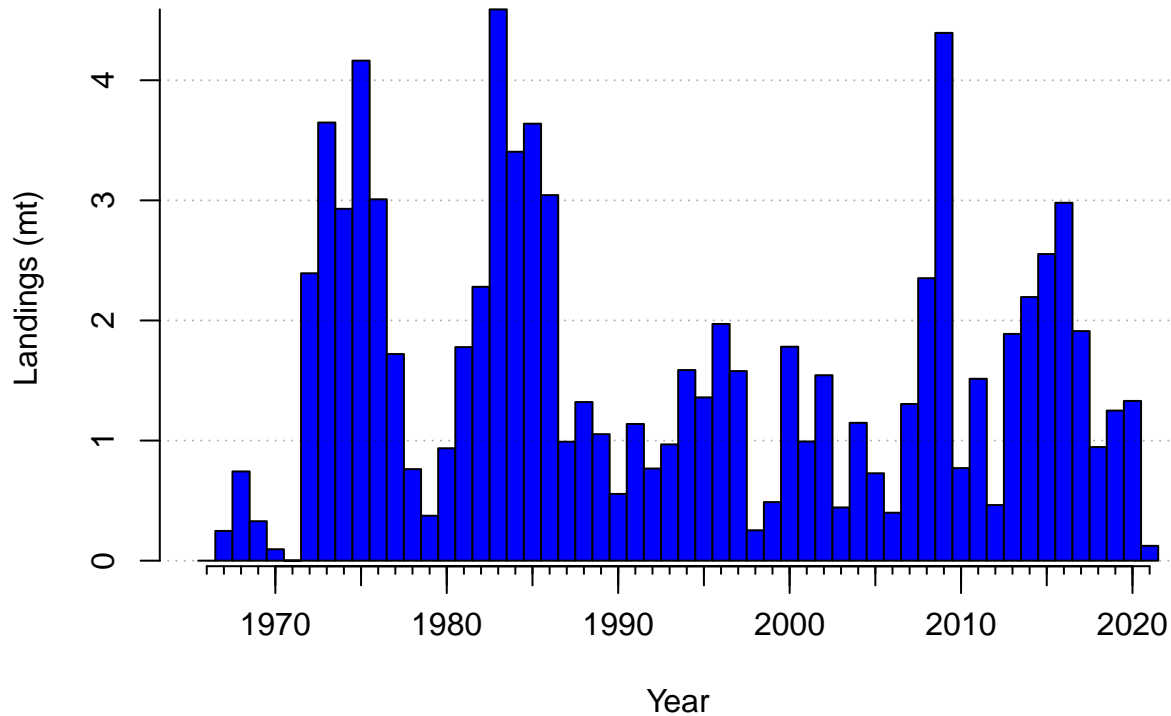


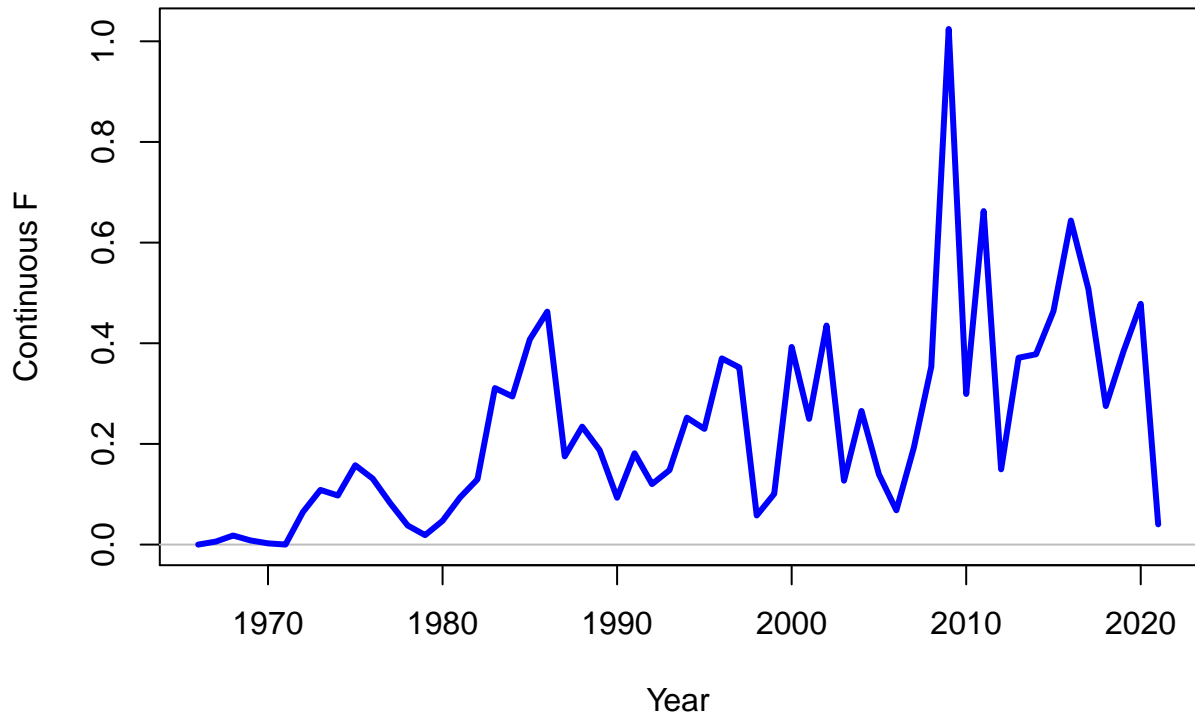
Recruitment (1,000s)



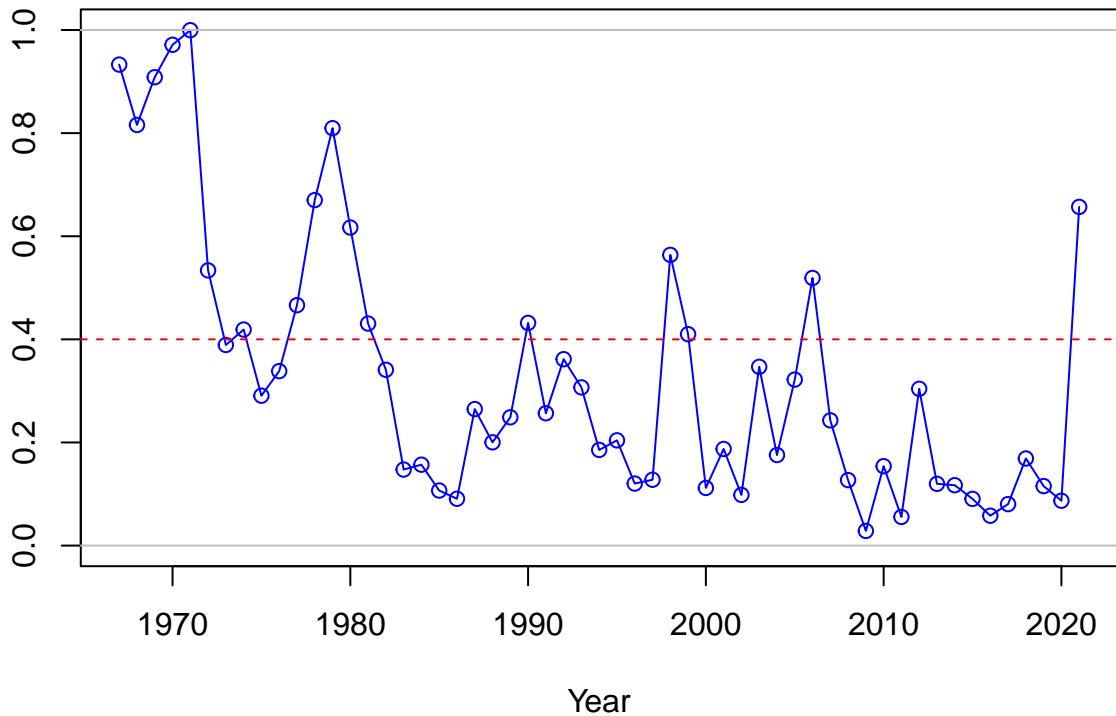




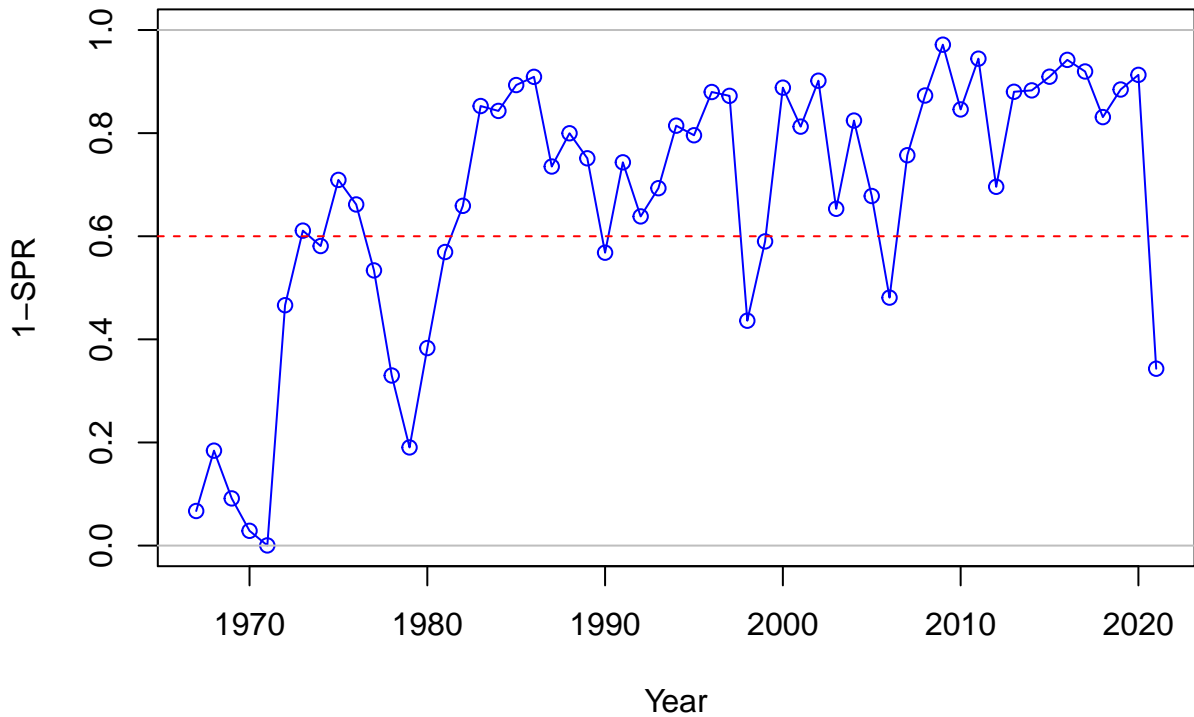




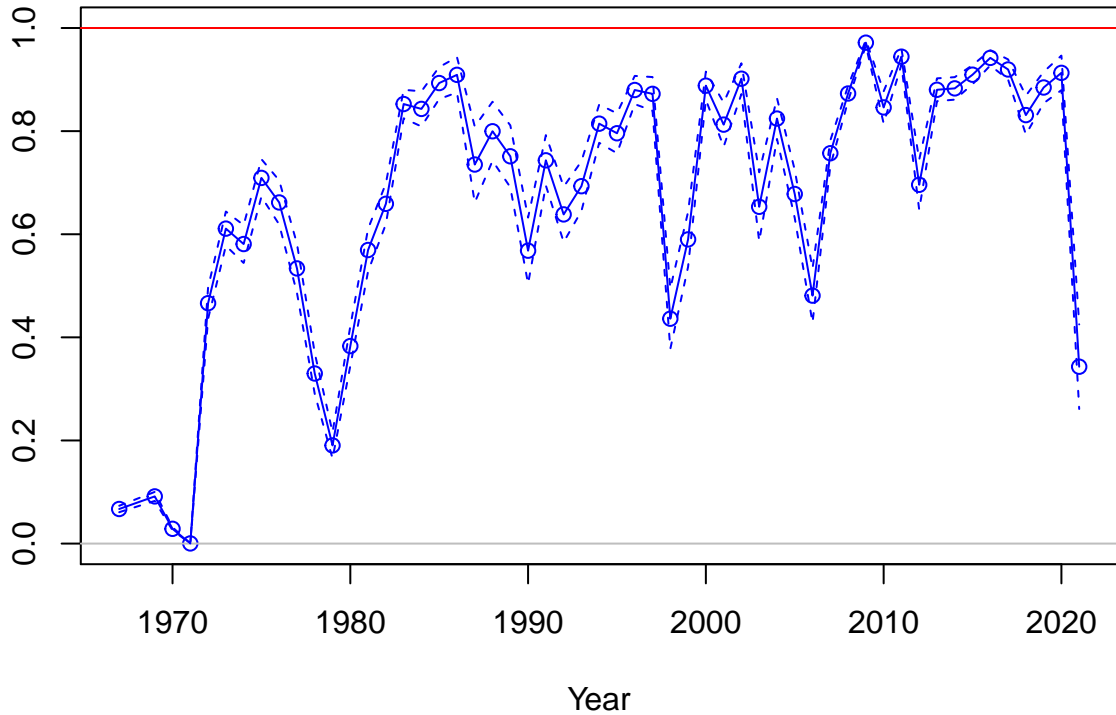
SPR



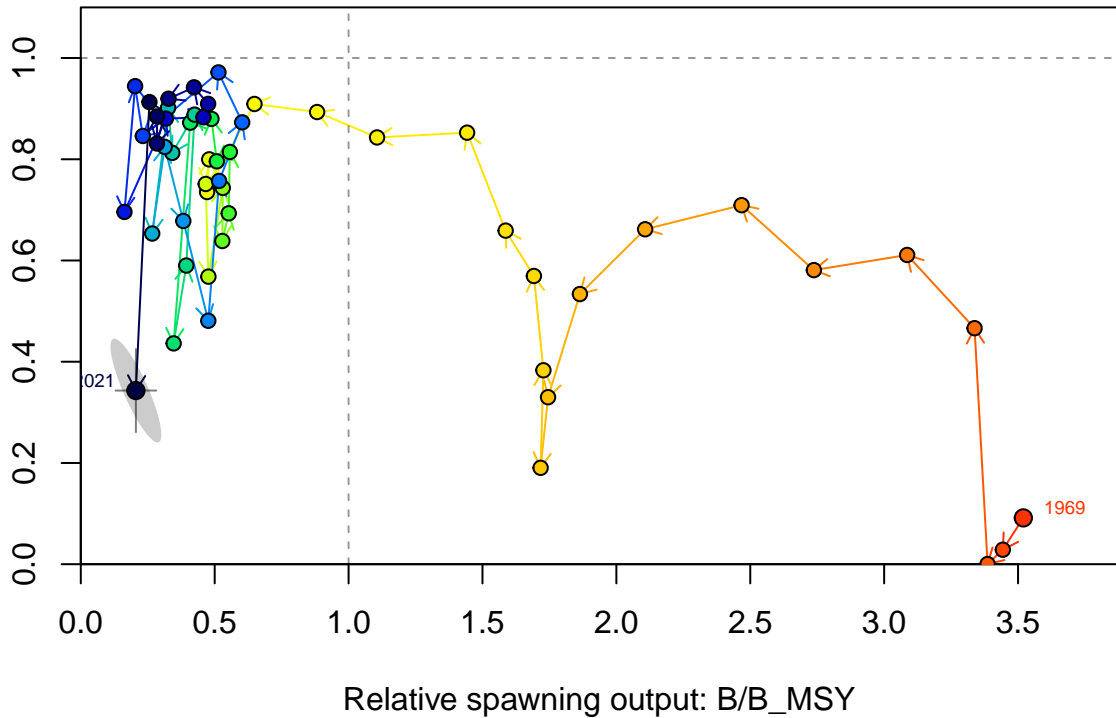




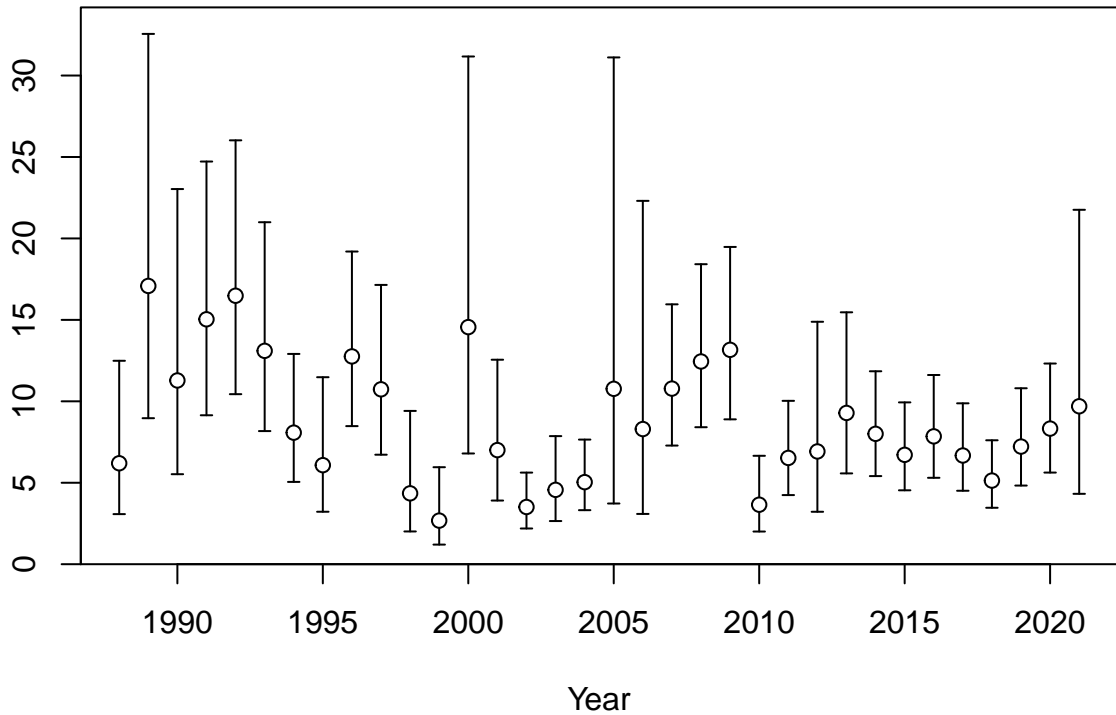
Fishing intensity: 1-SPR



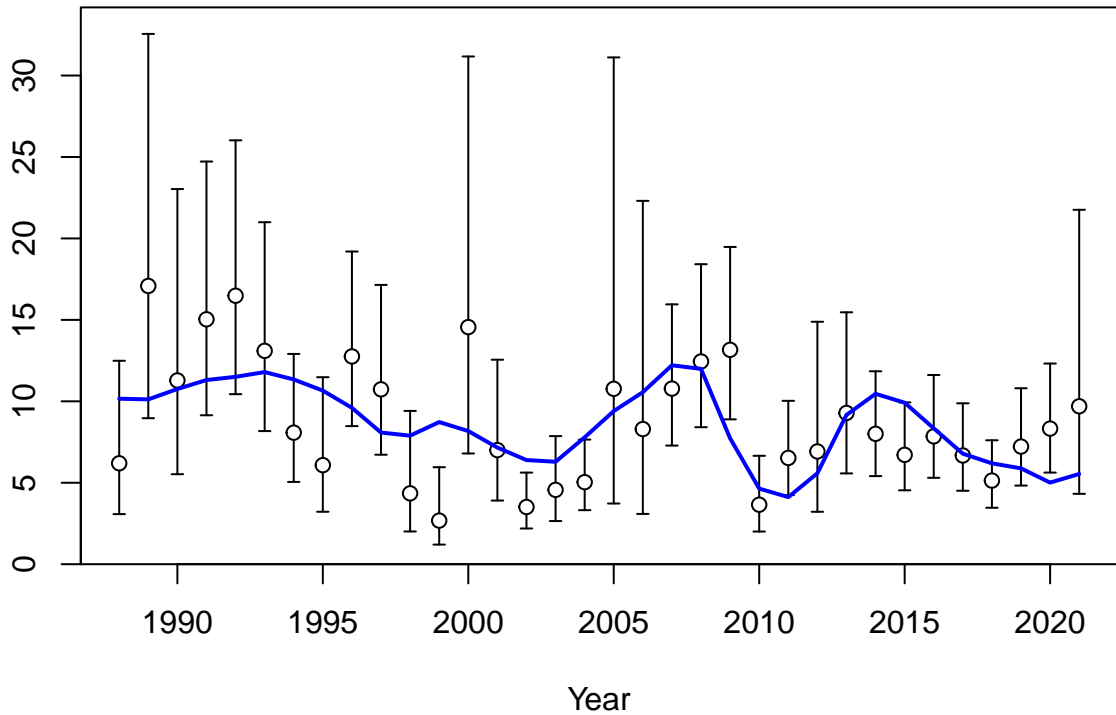
Fishing intensity: 1-SPR

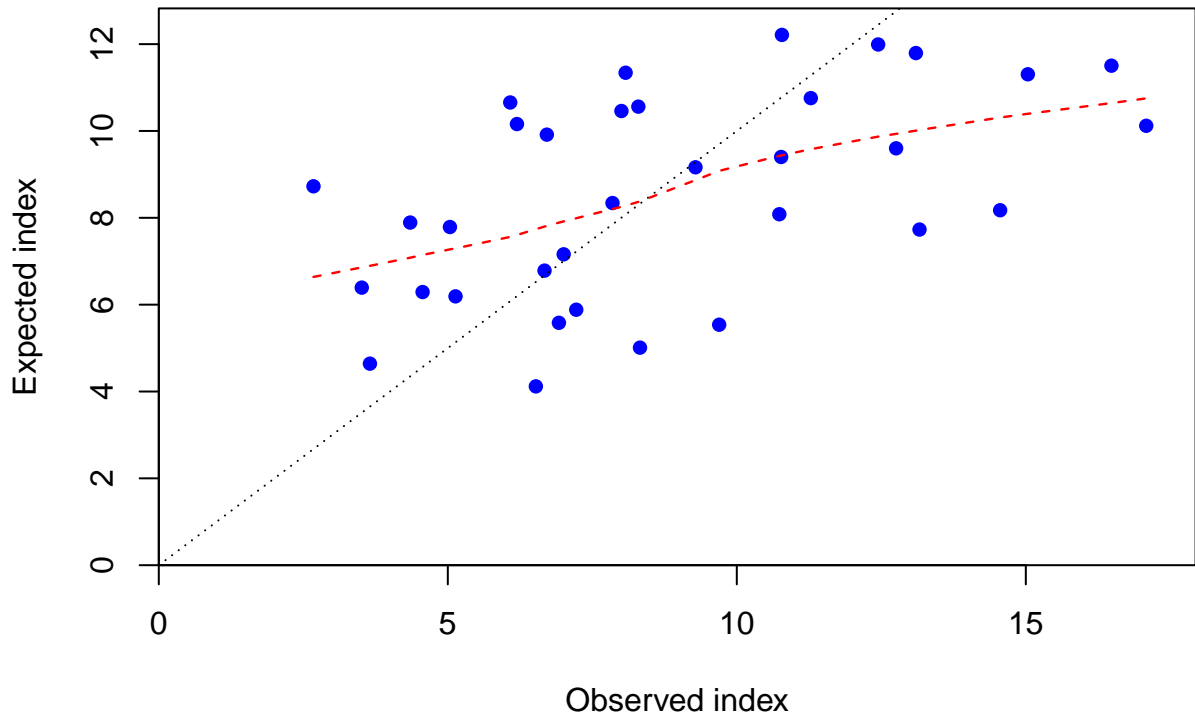


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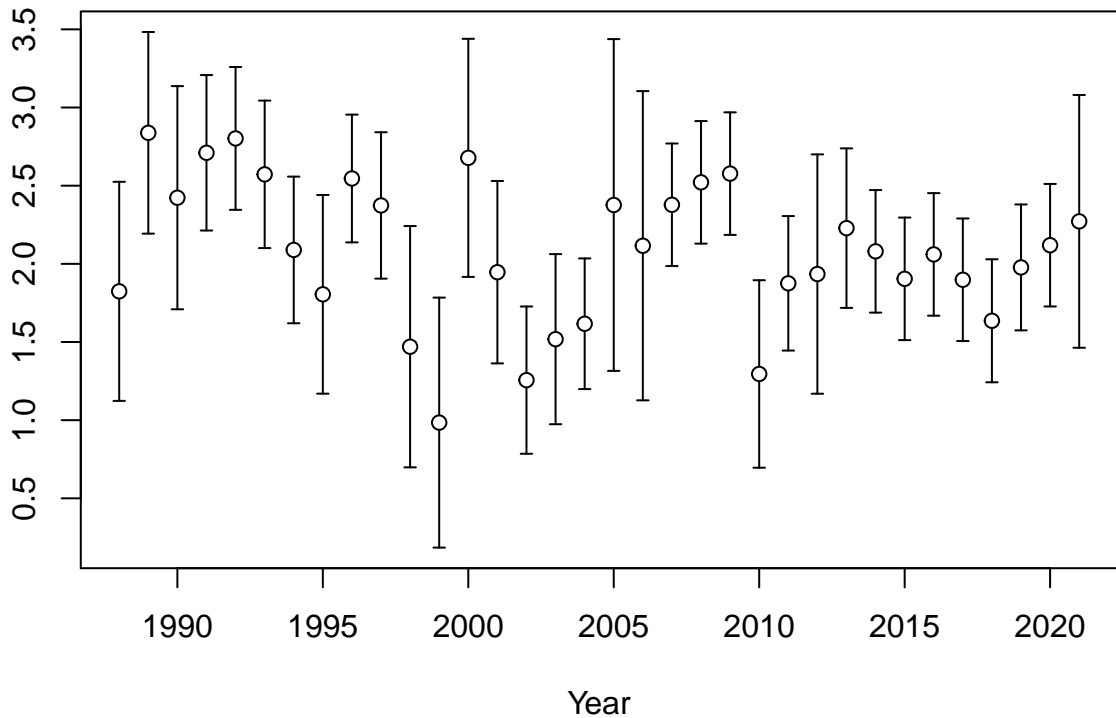


Index

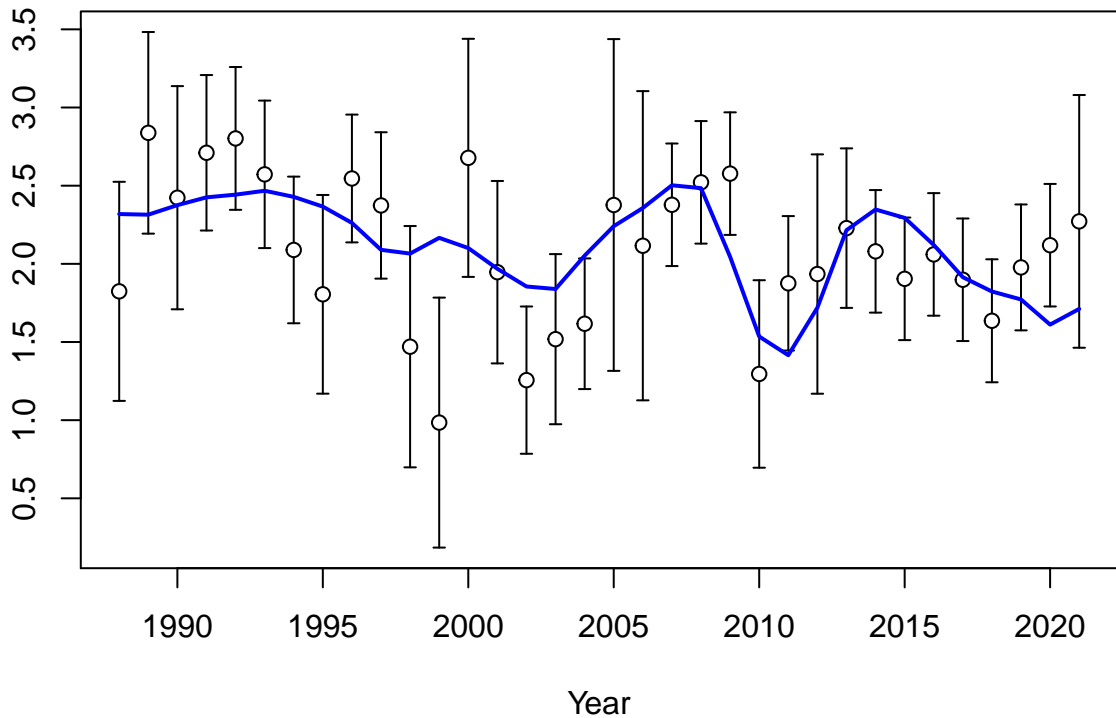




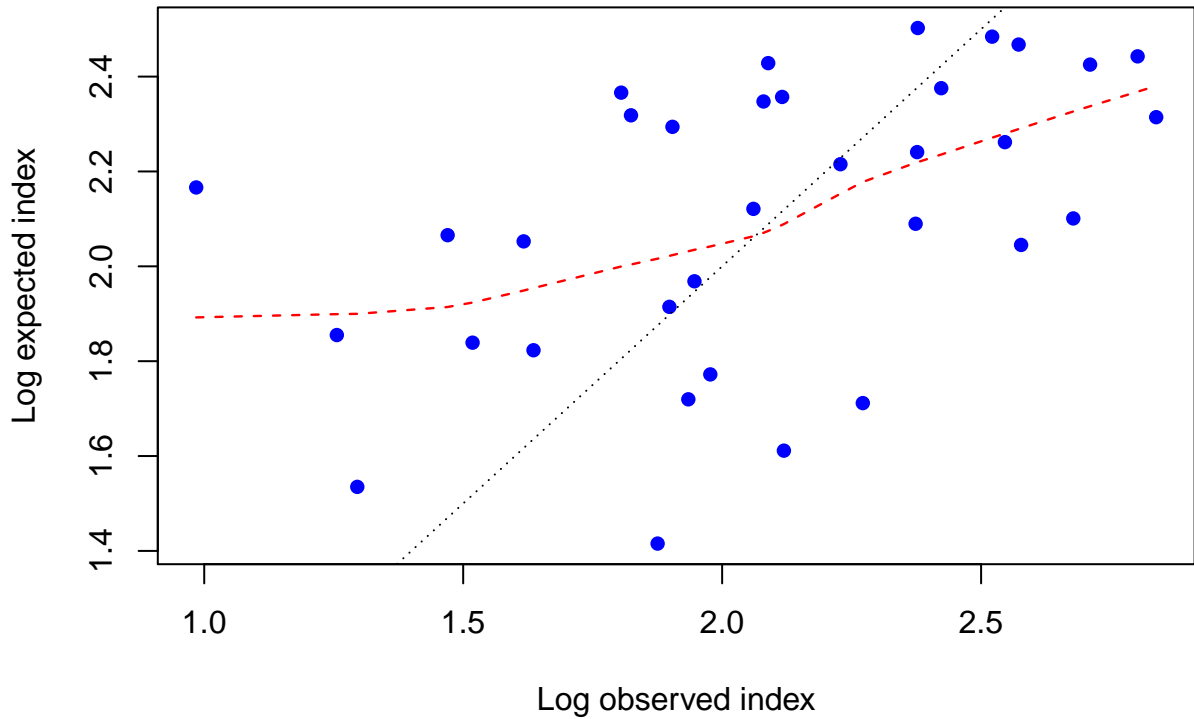
Log index



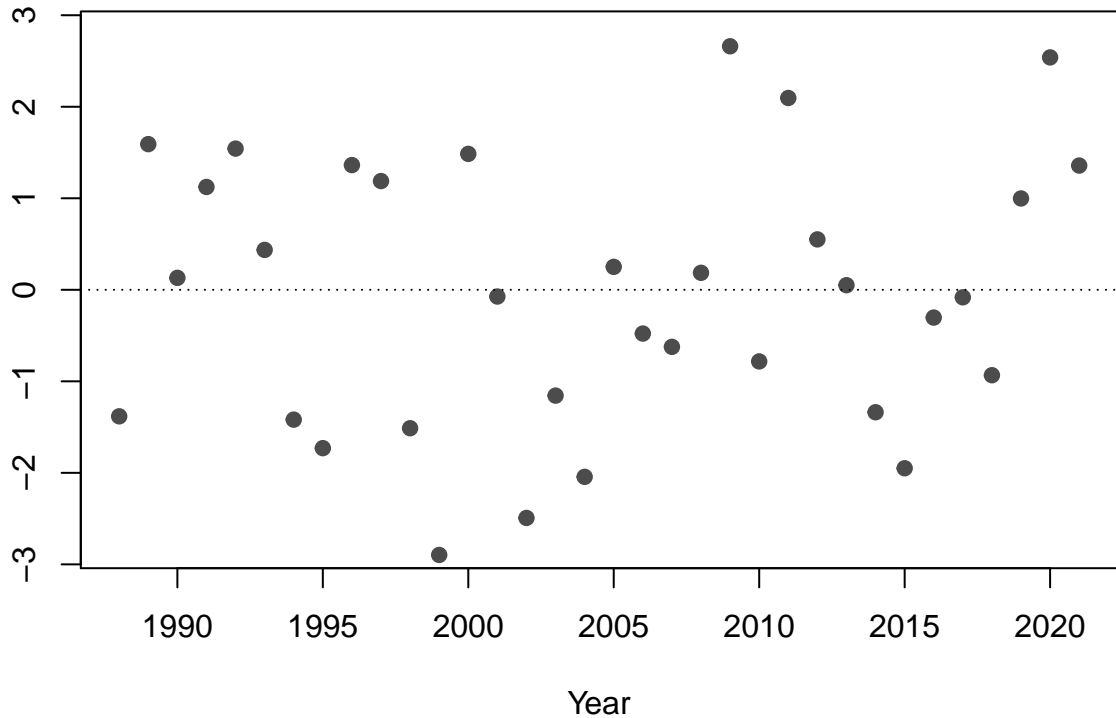
Log index

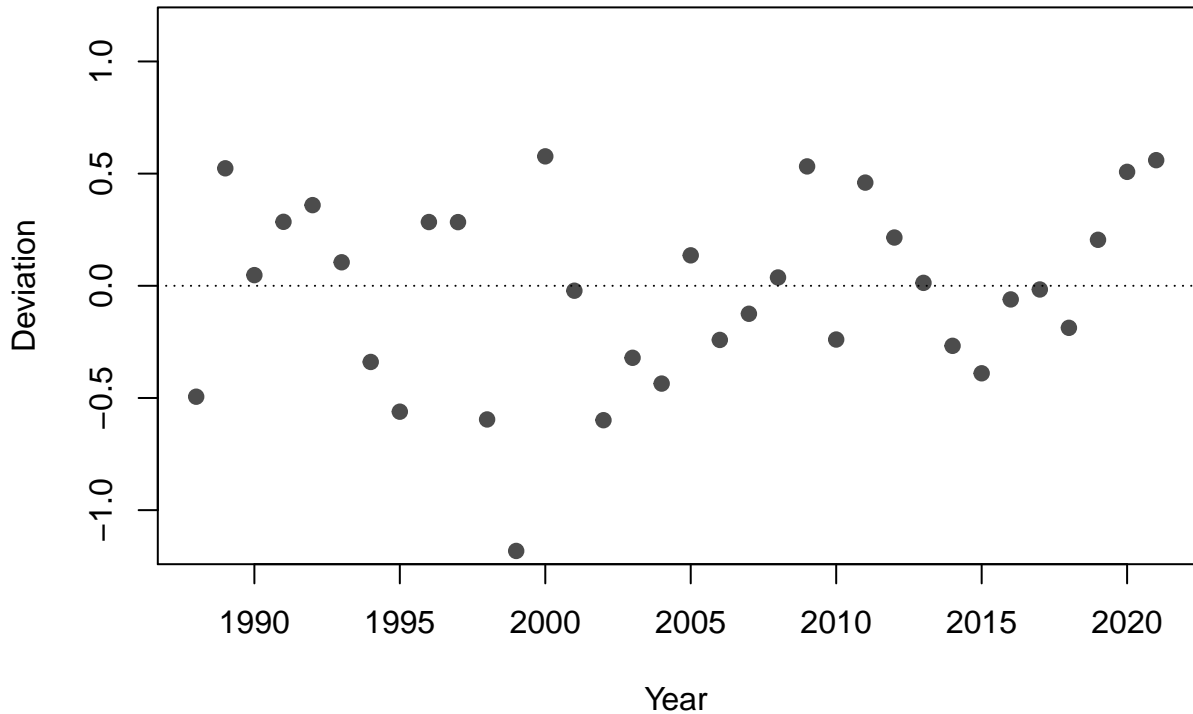


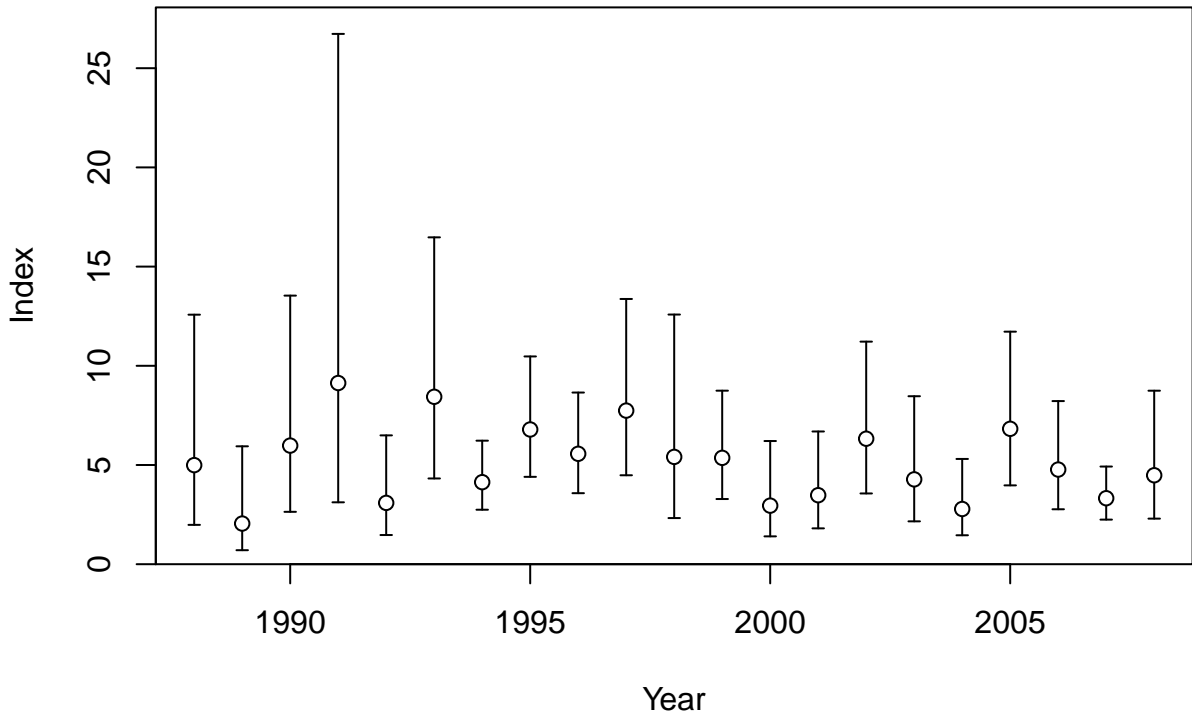




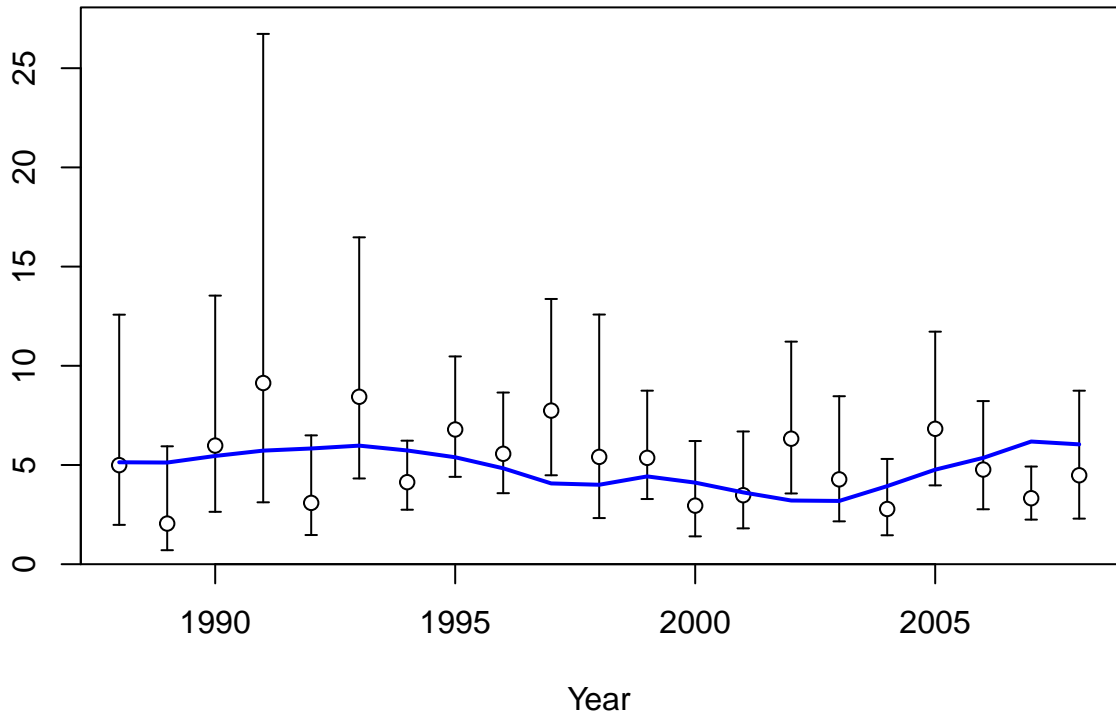
Residual

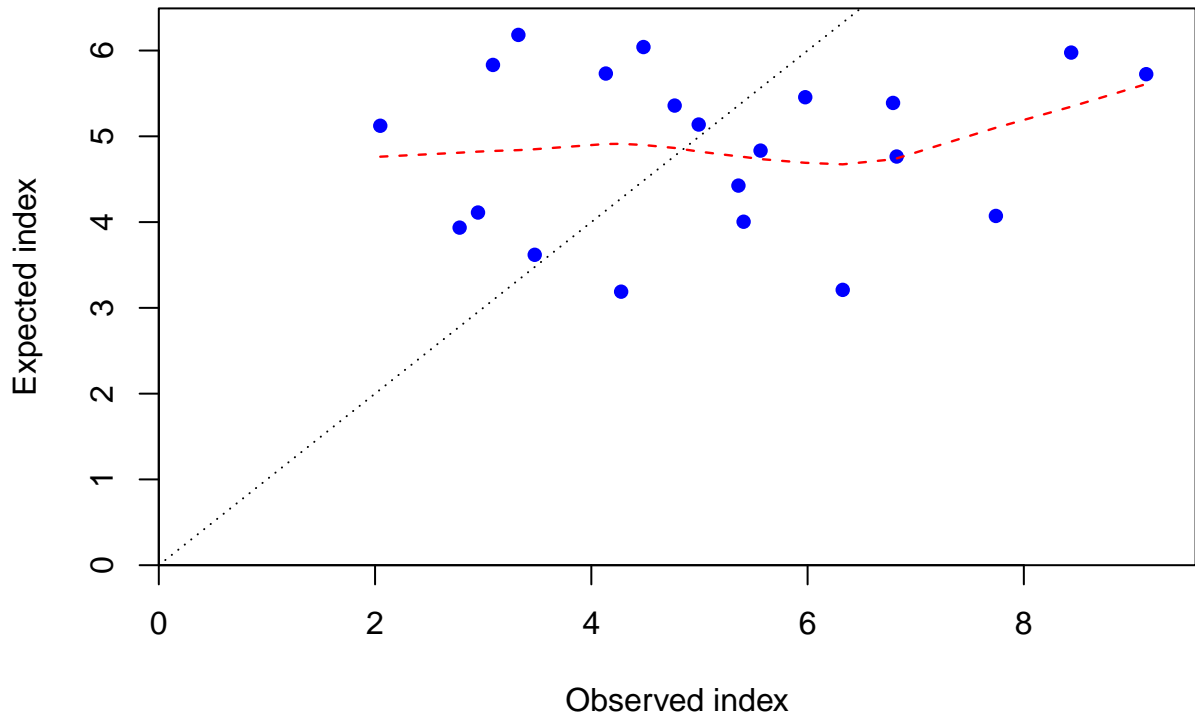


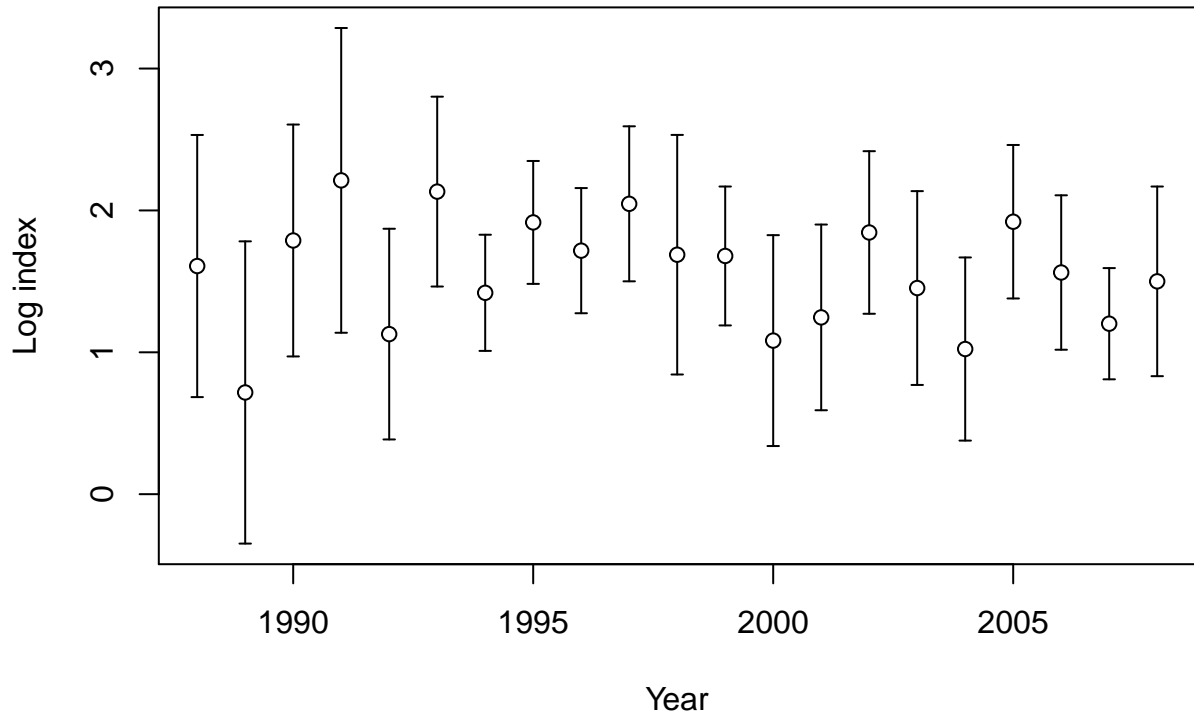


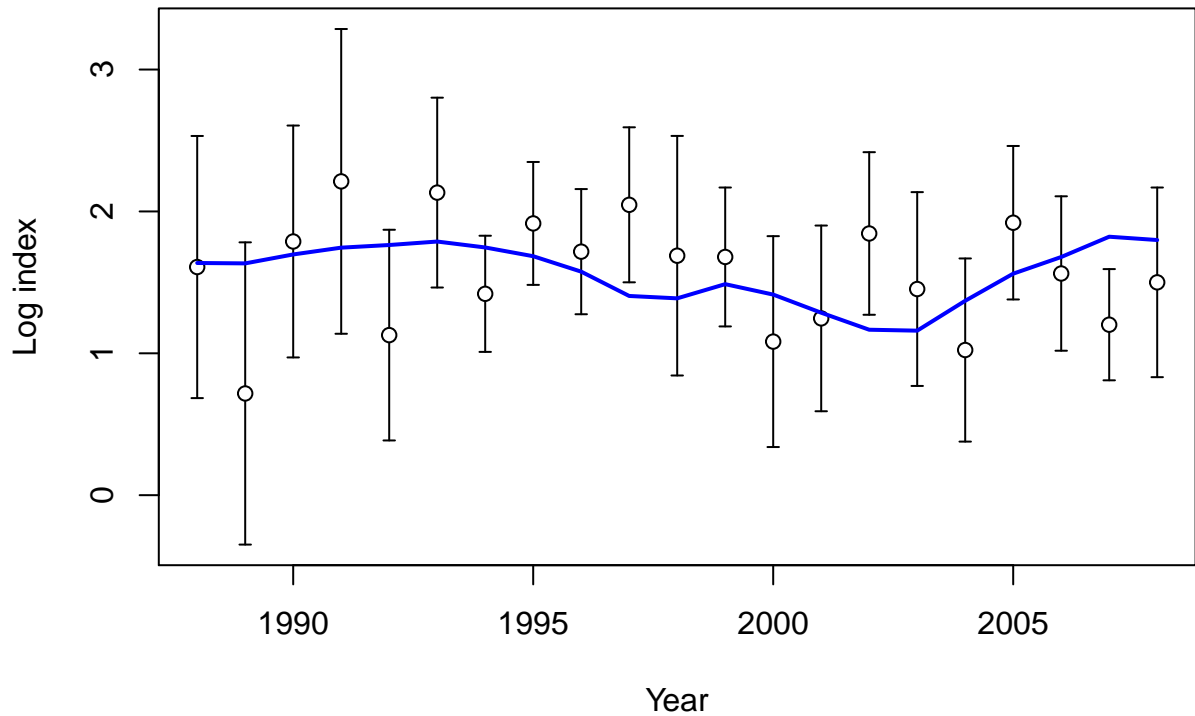


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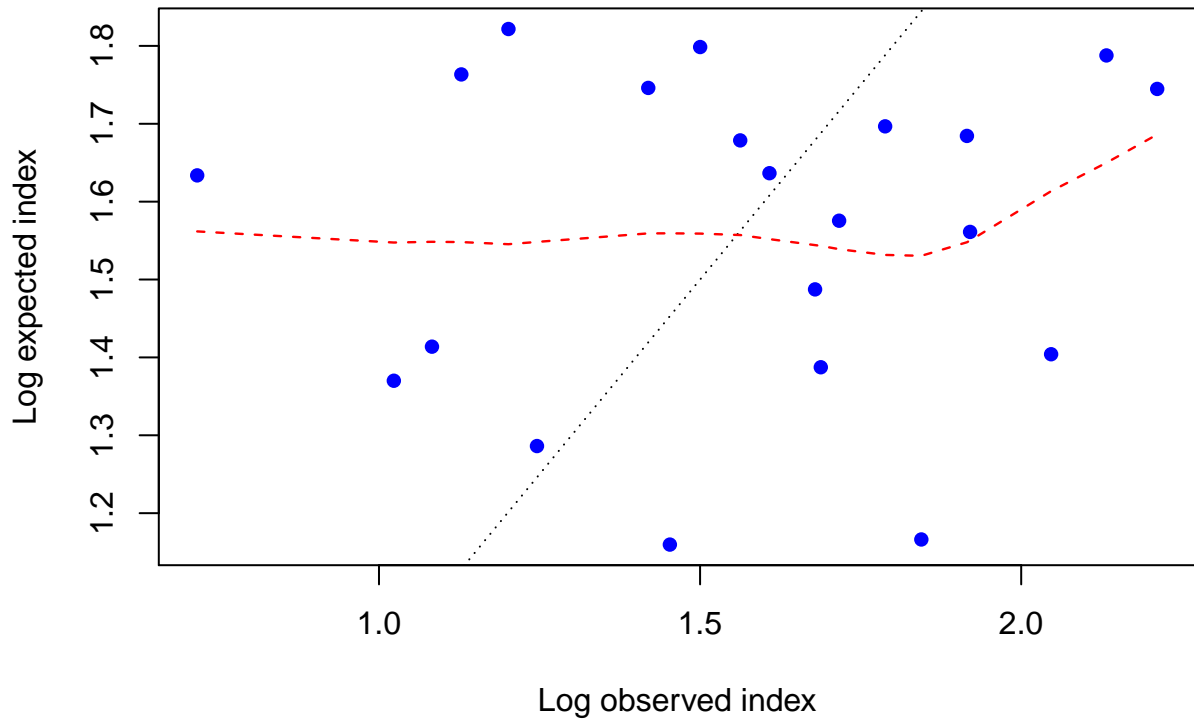


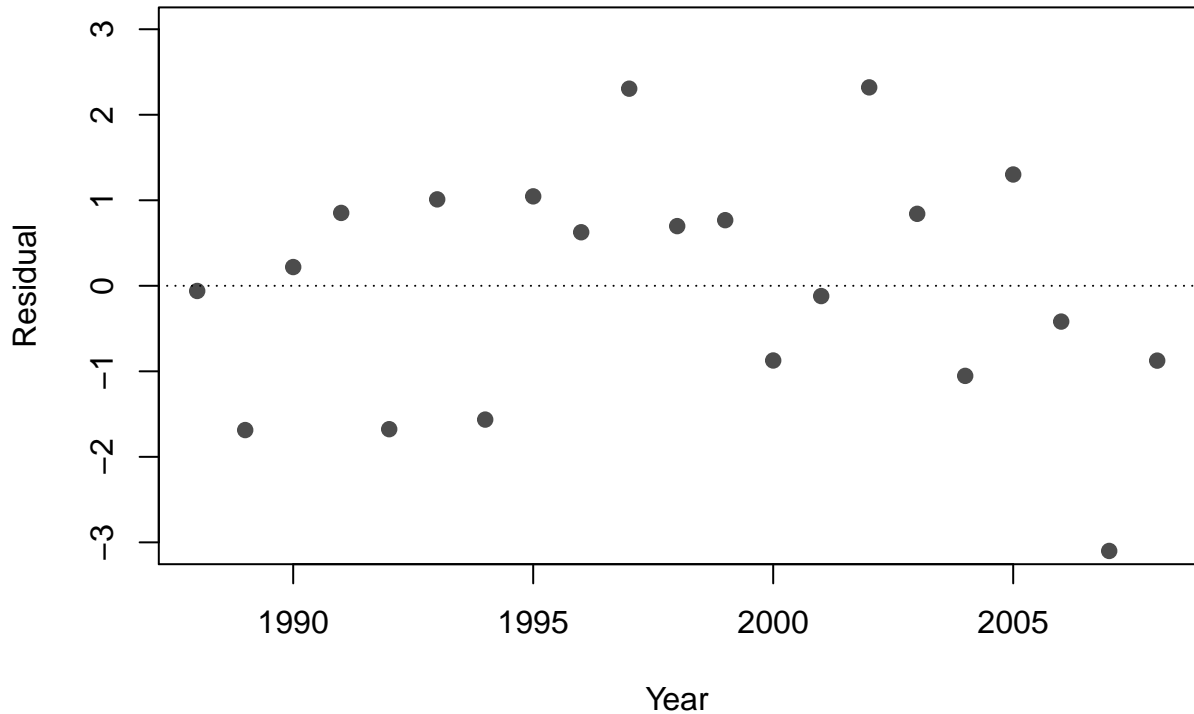


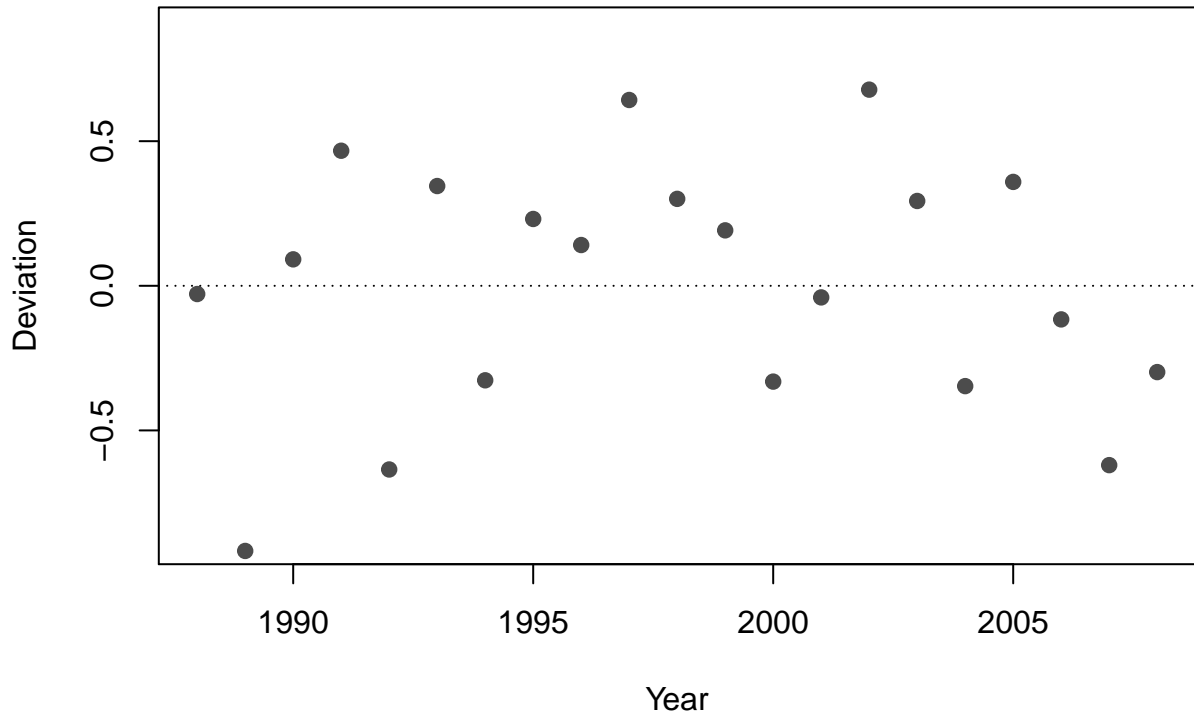




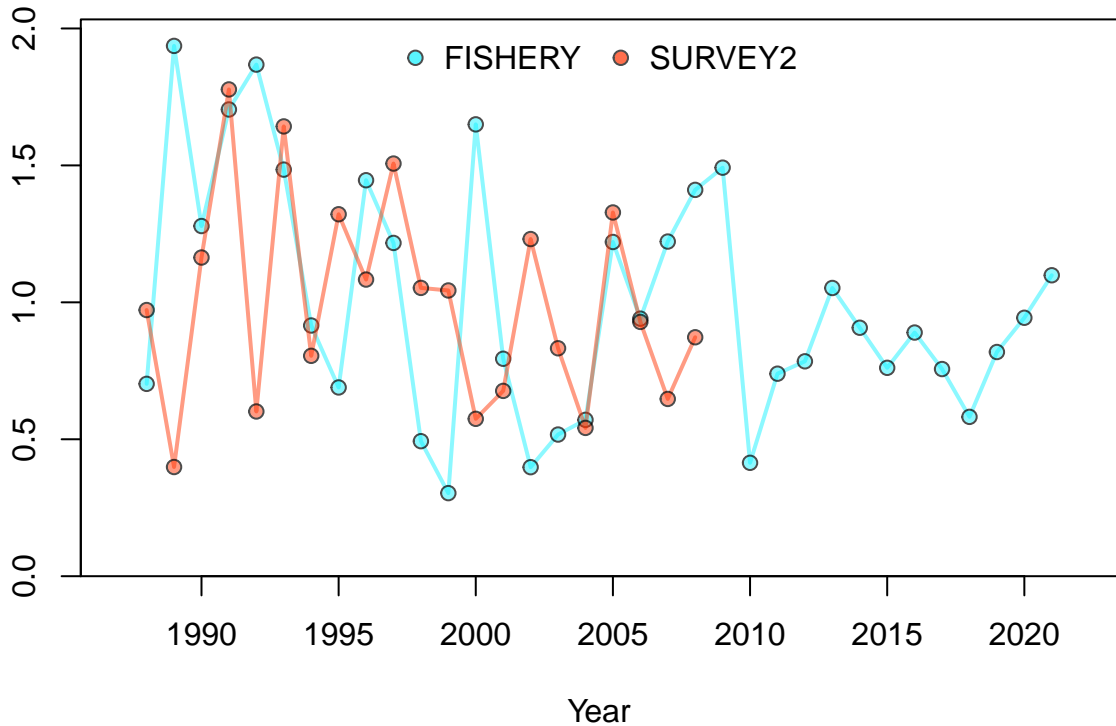


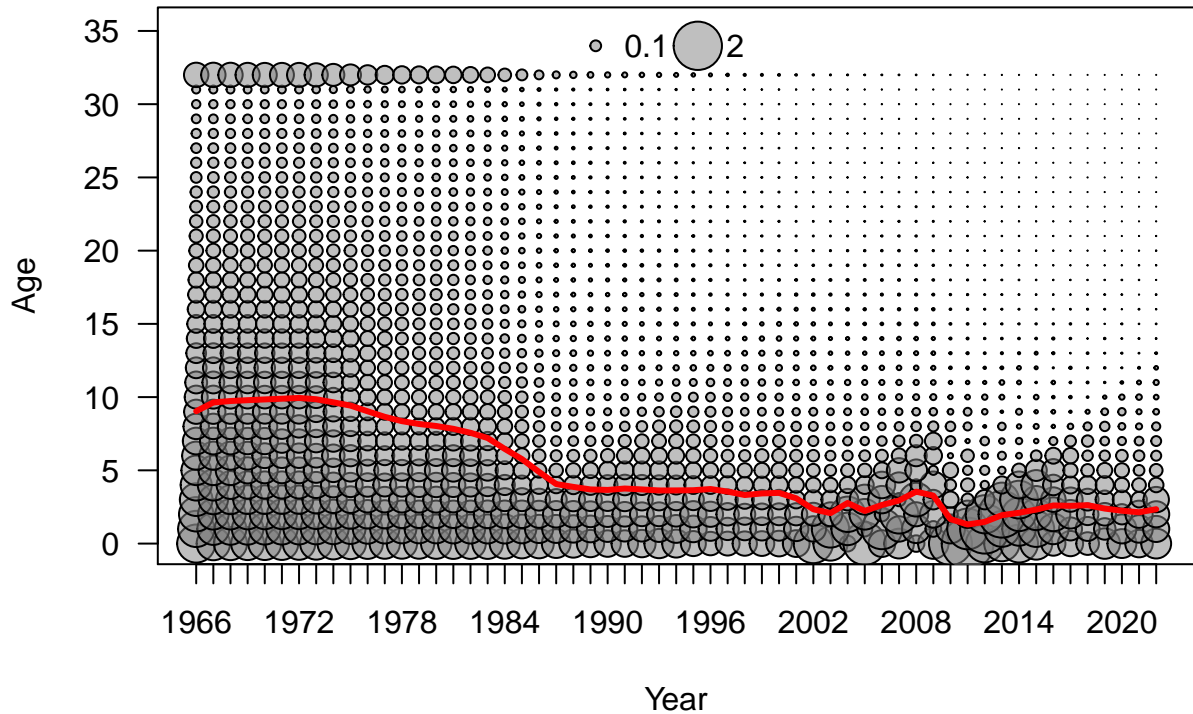


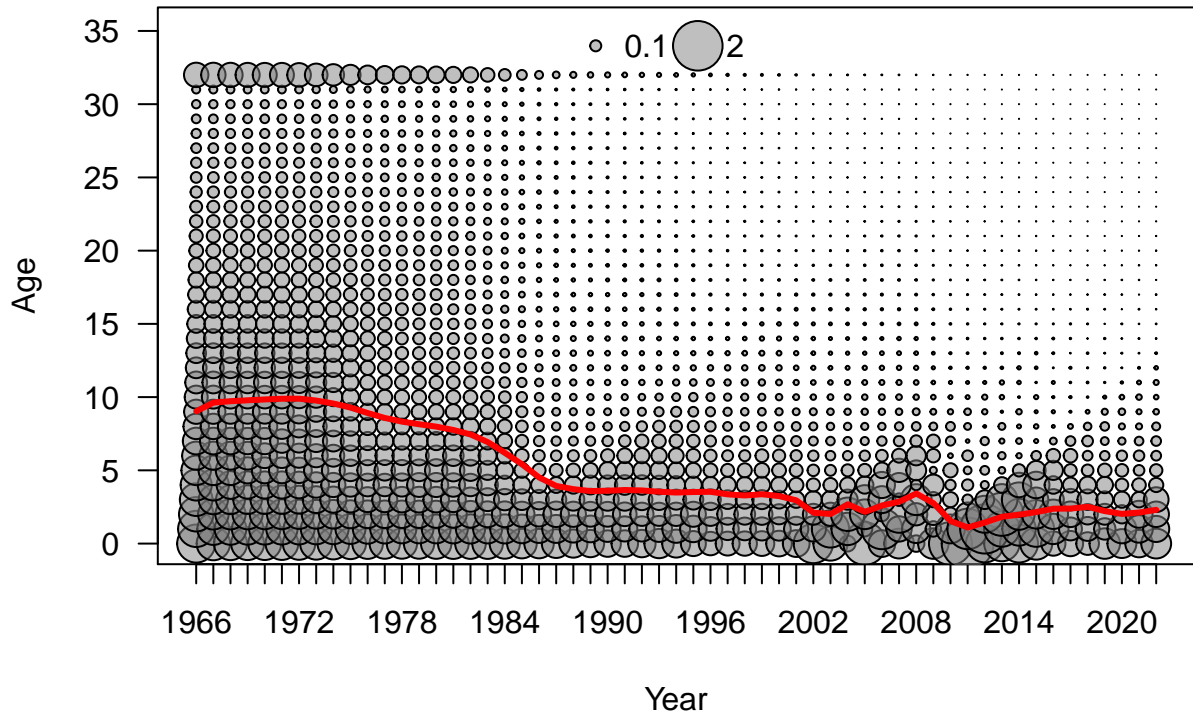


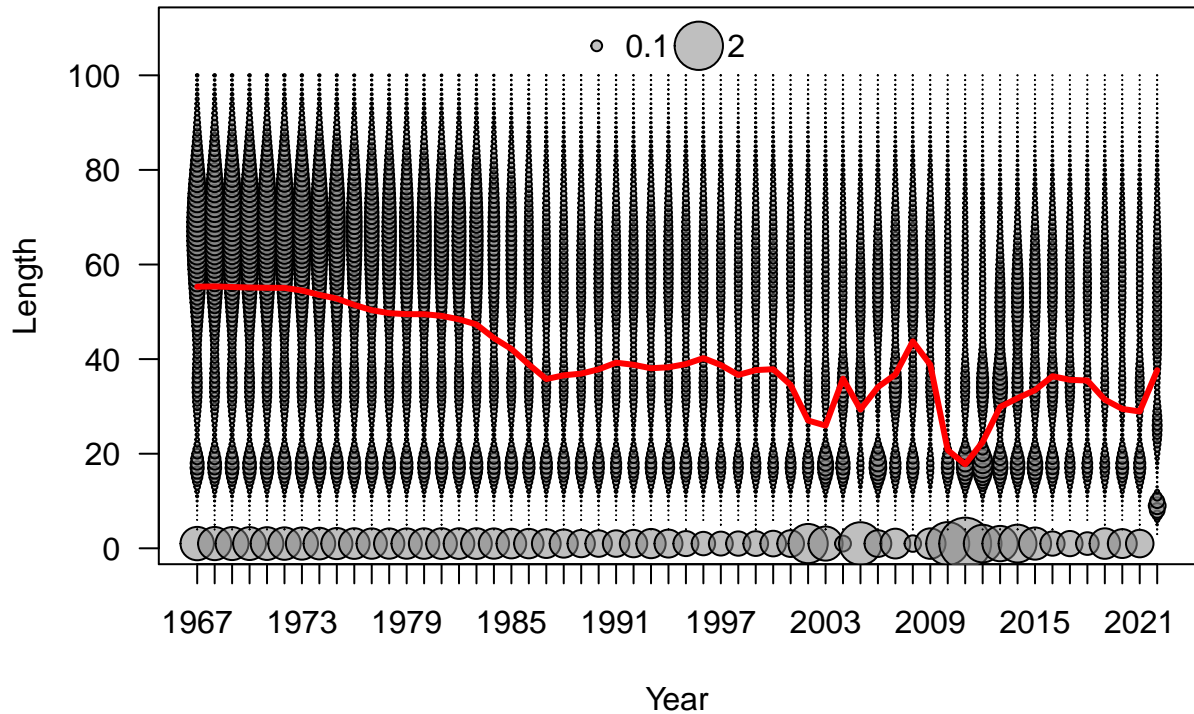


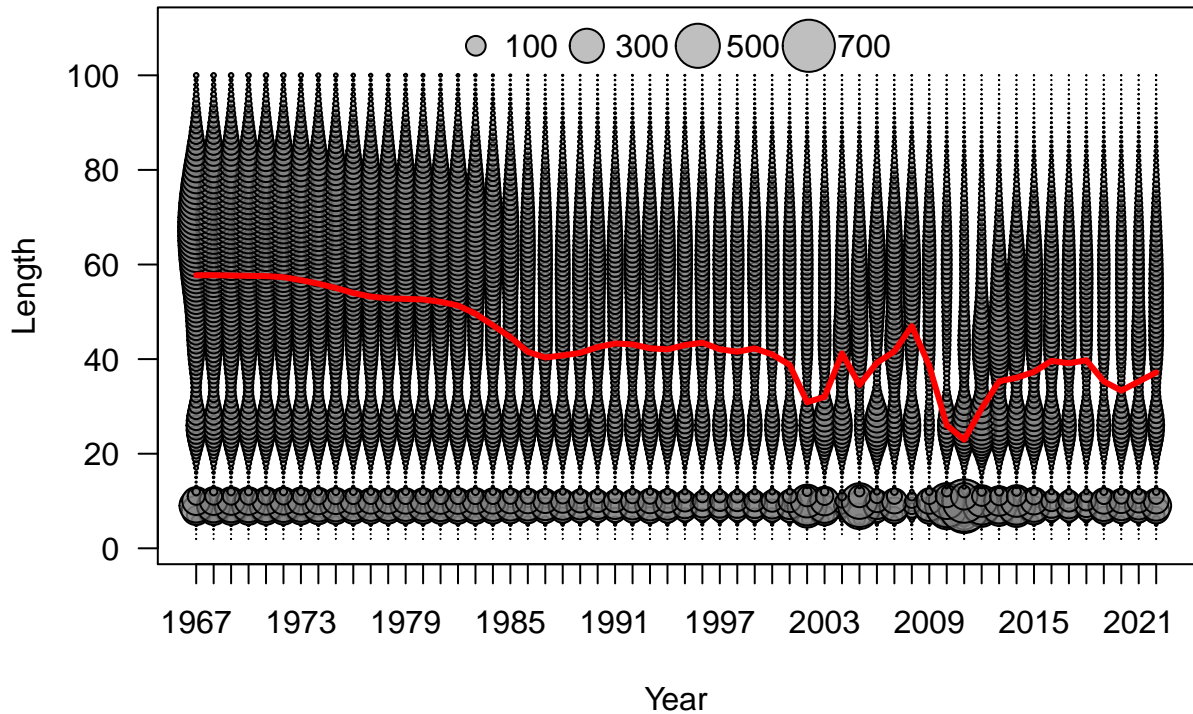
Standardized index



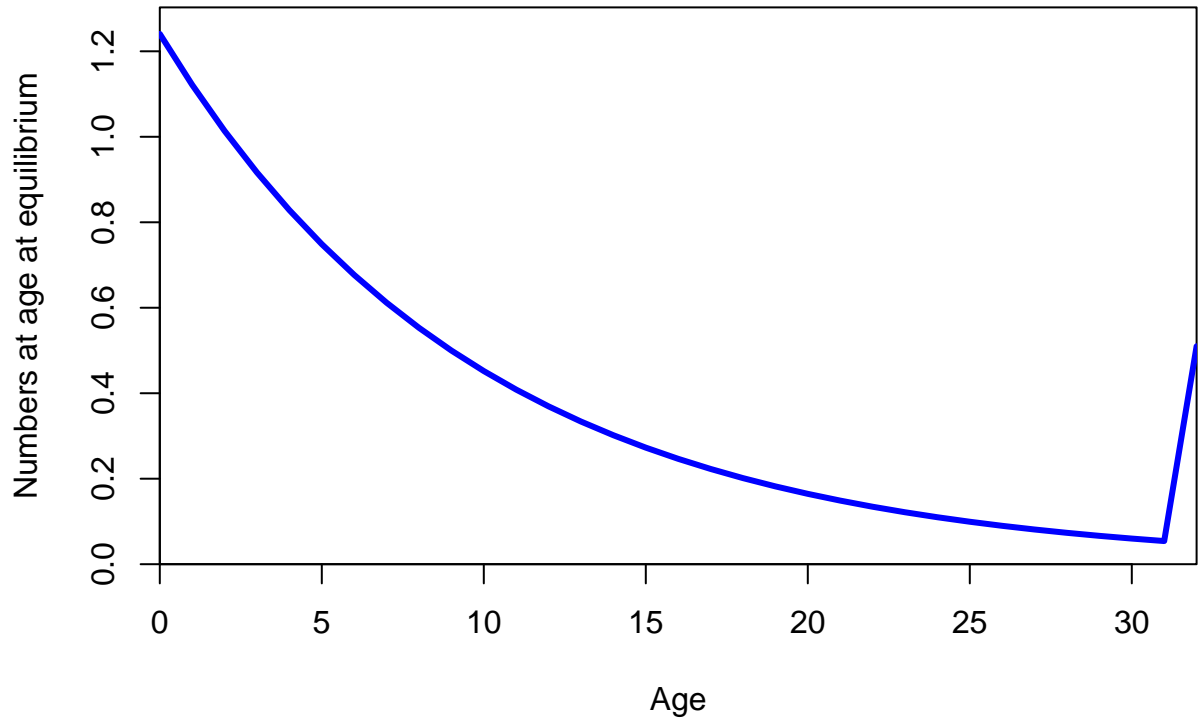


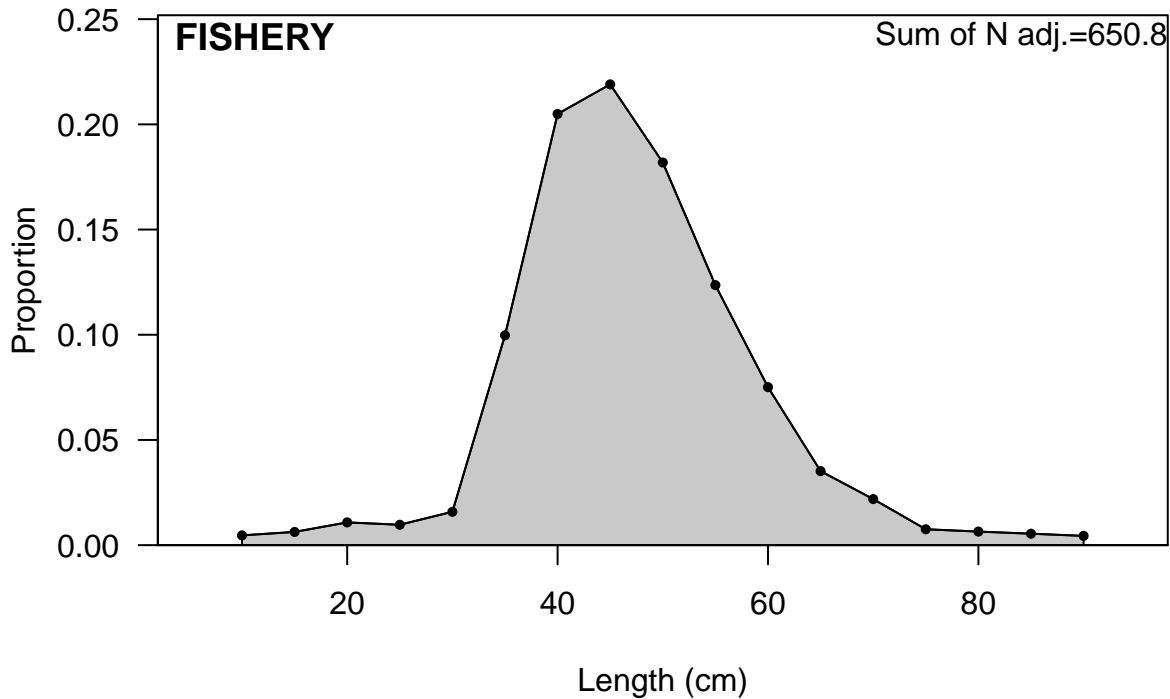






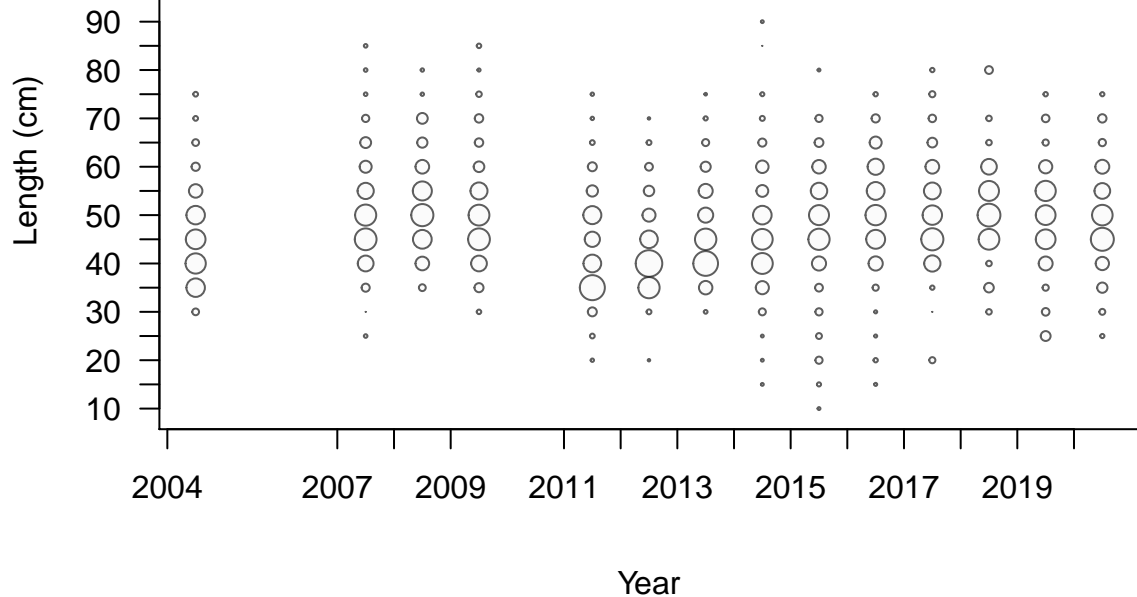




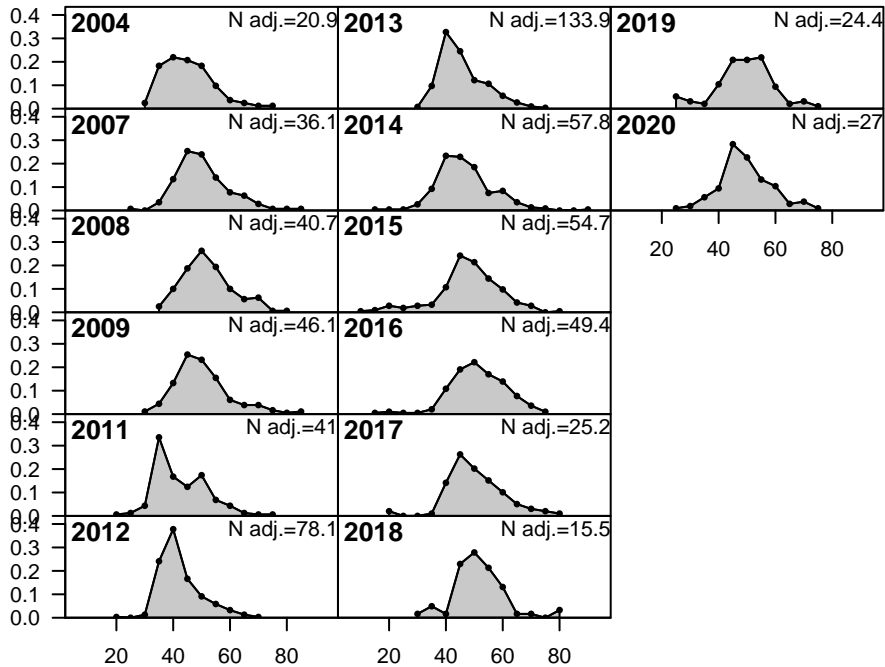


# FISHERY

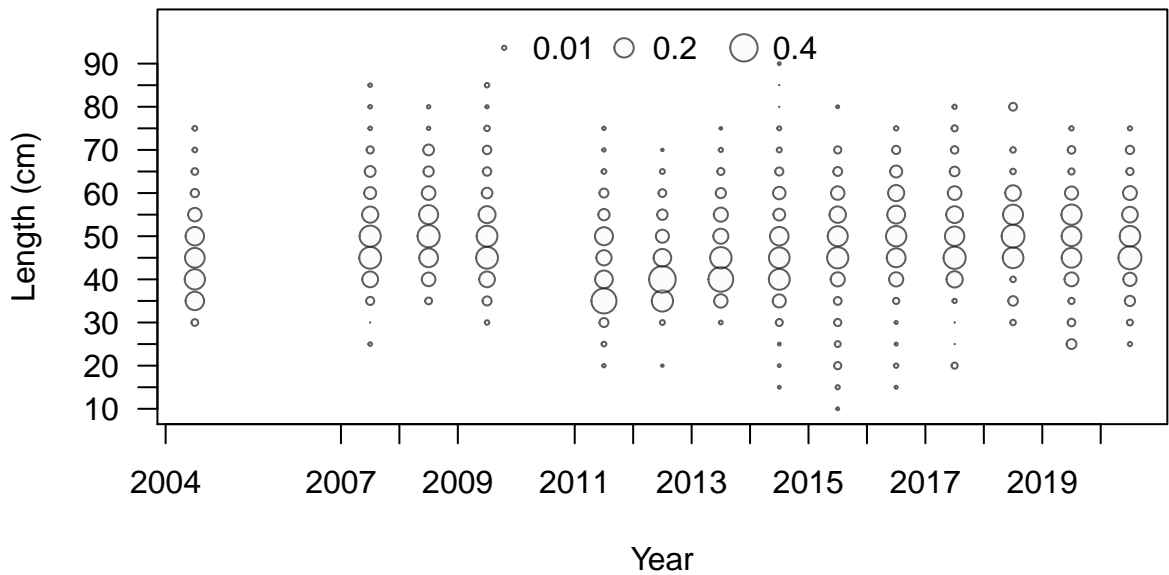
• 0.01 ○ 0.2 ○ 0.4



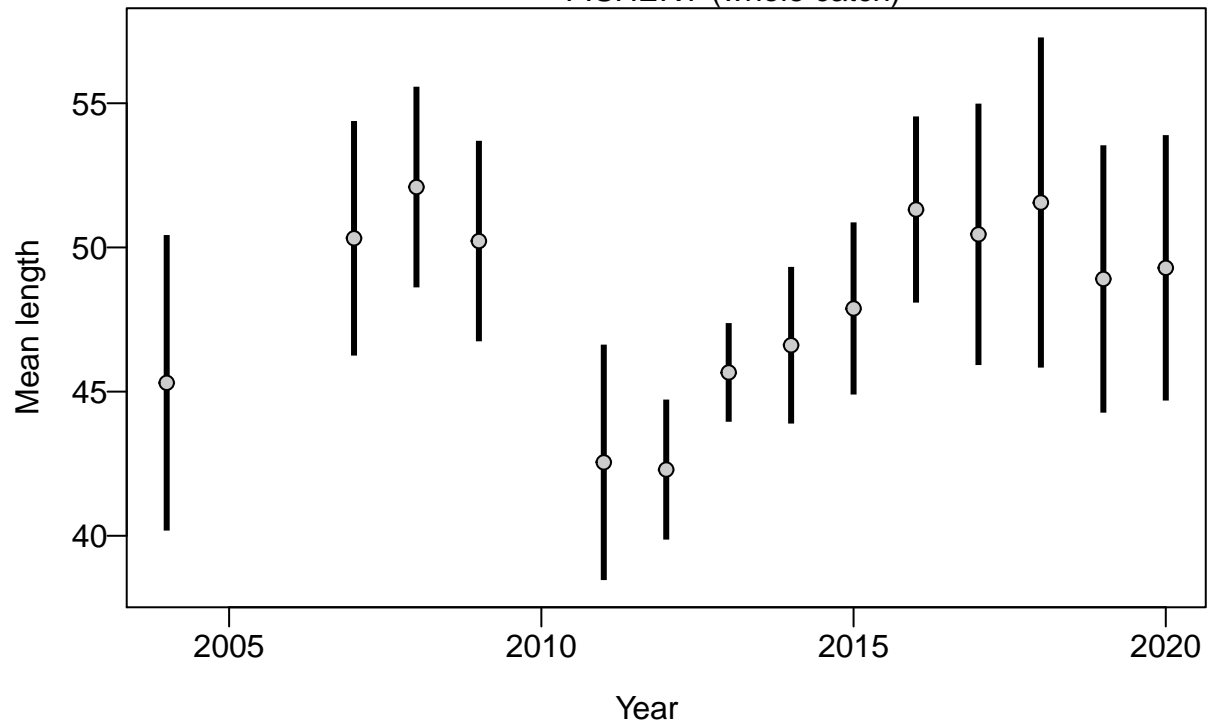
Proportion

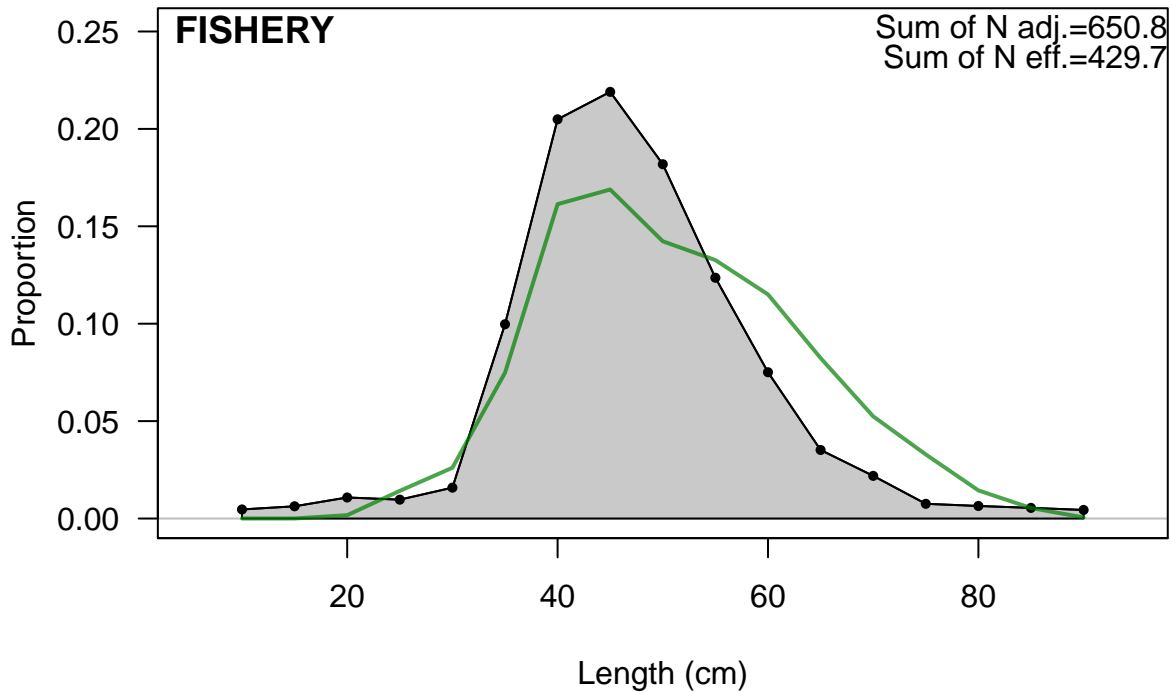


Length (cm)



# FISHERY (whole catch)



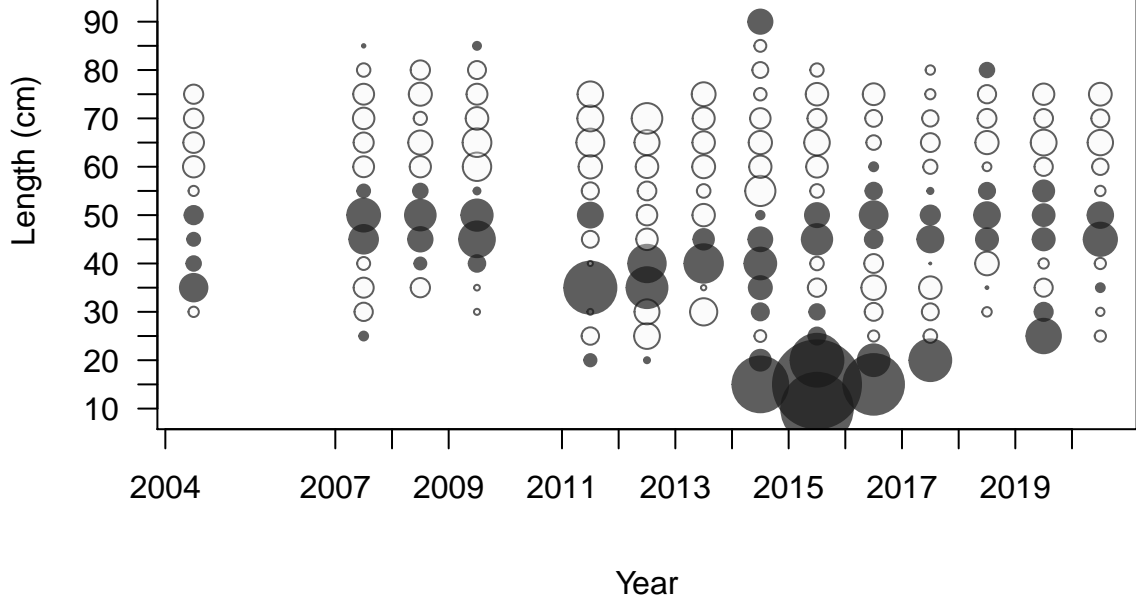


FISHERY

-15

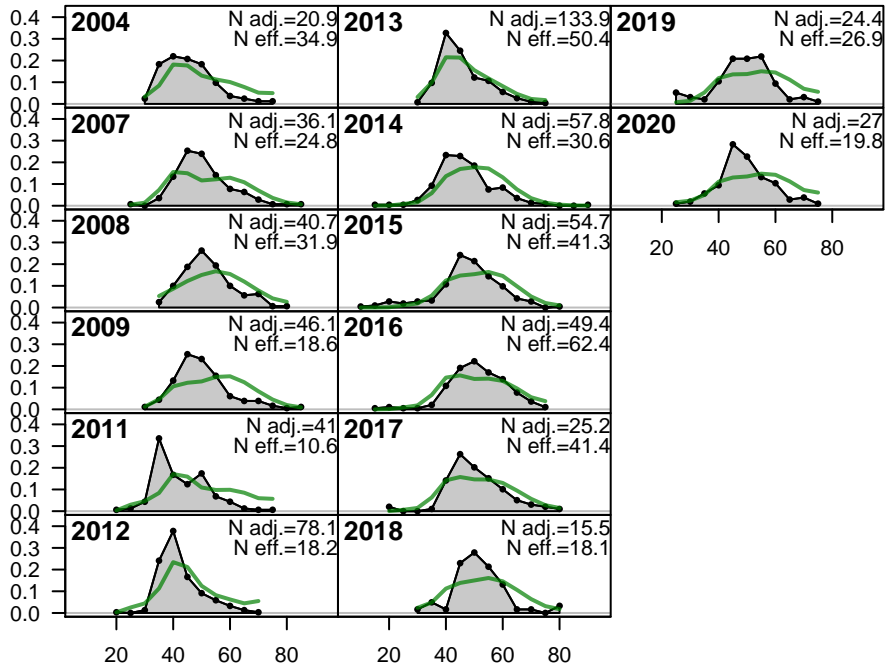
5

15



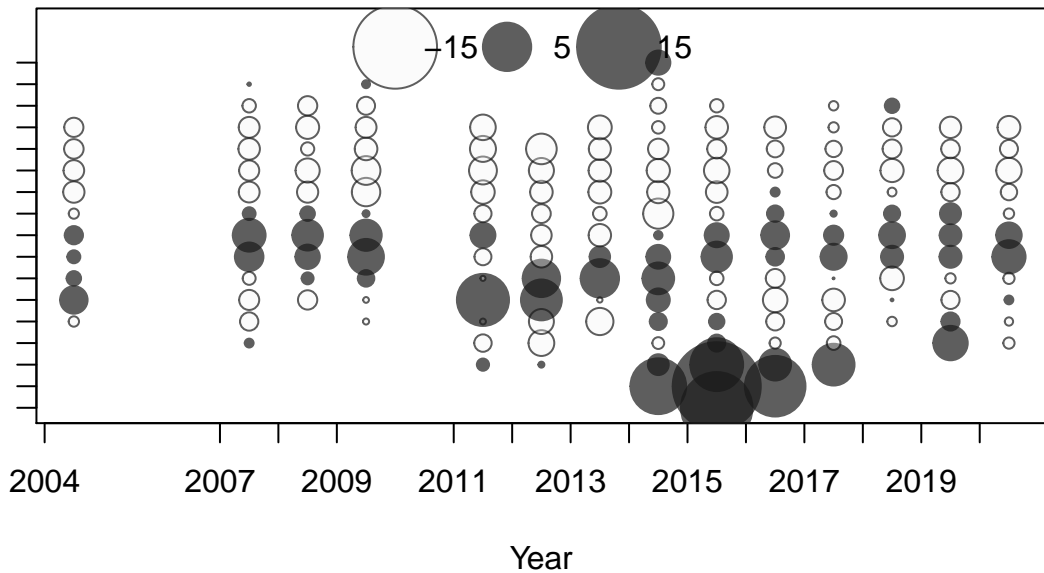


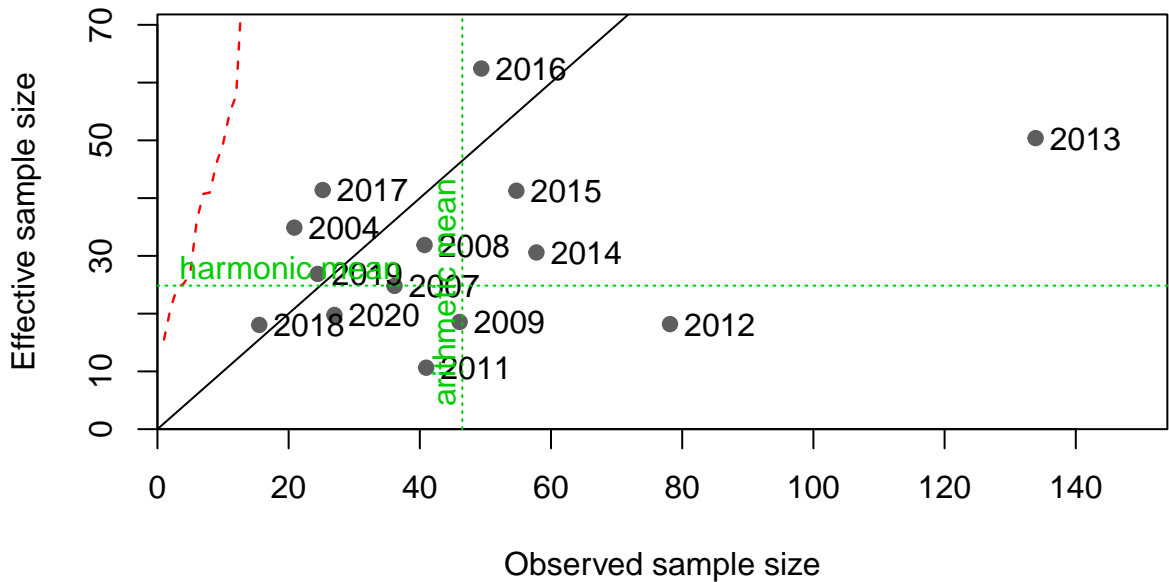
Proportion



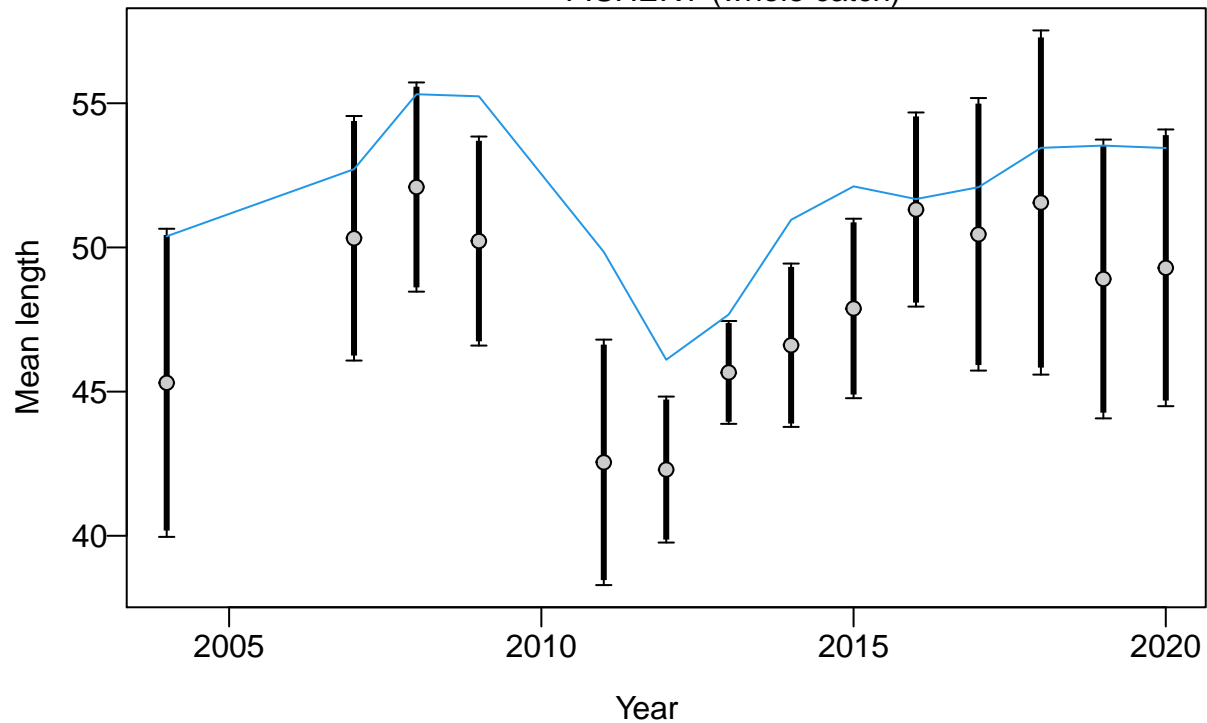
Length (cm)

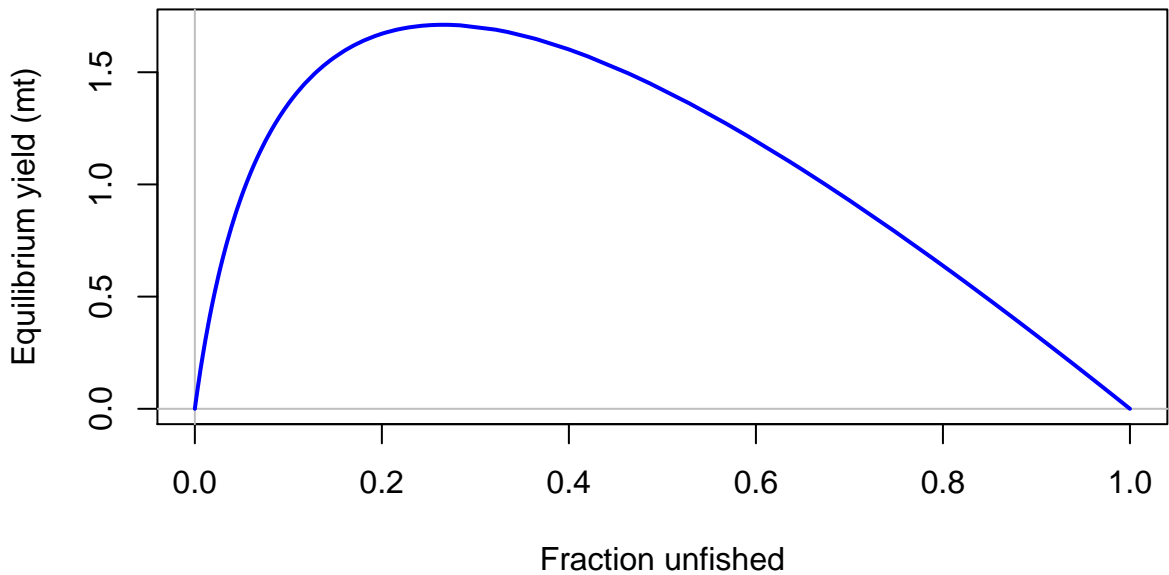
Length (cm)

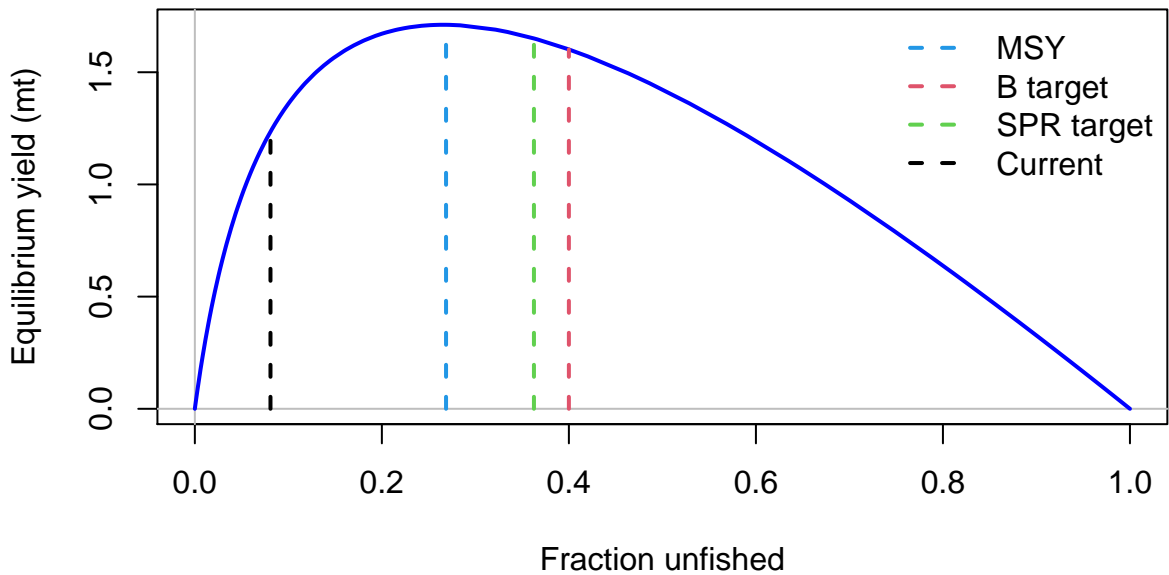


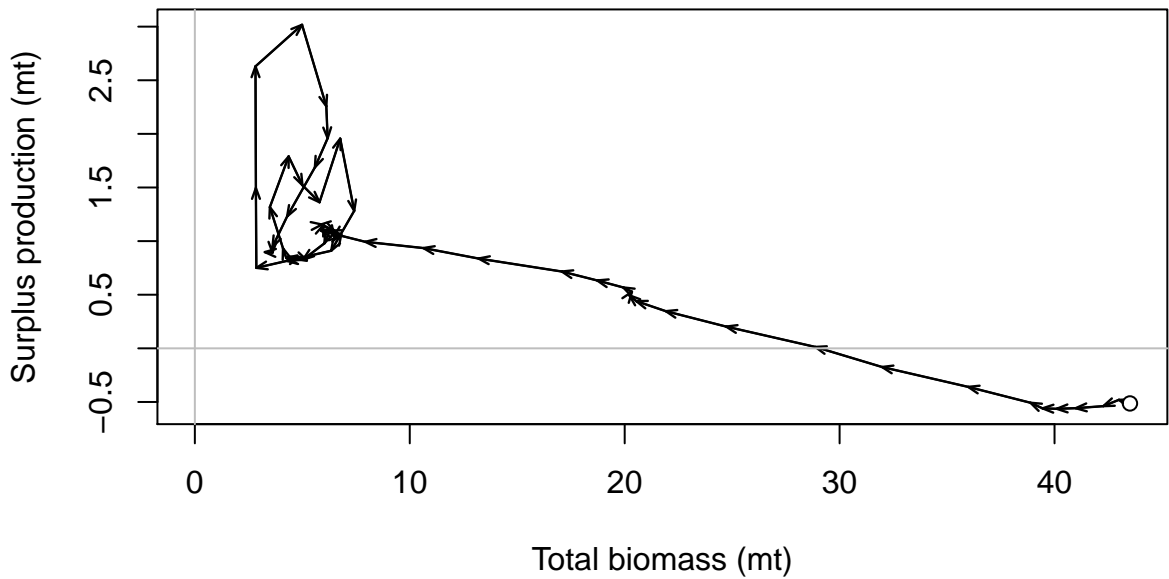


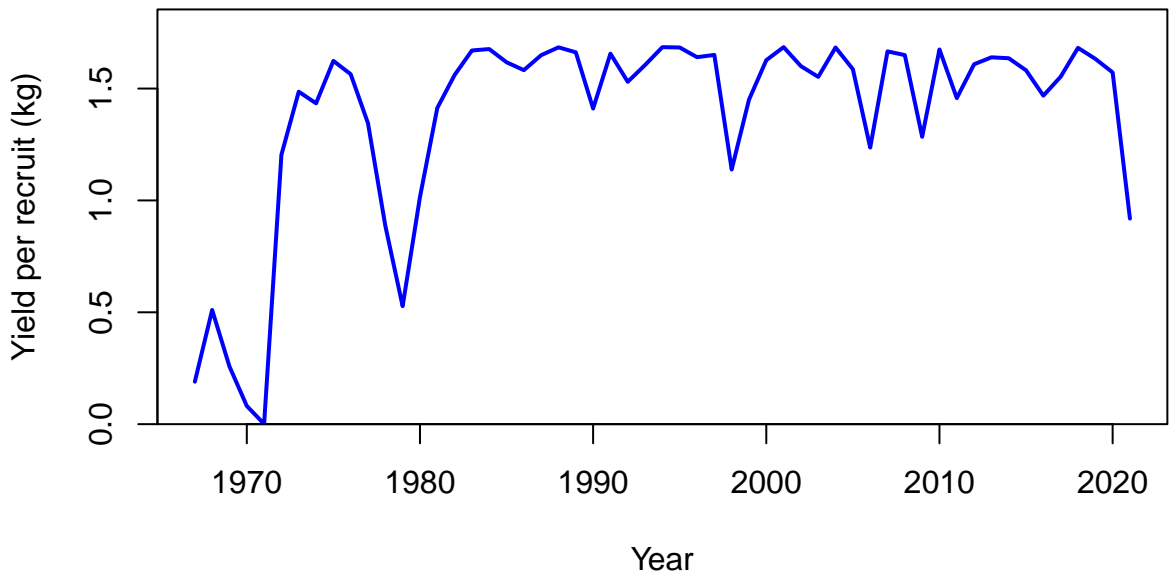
FISHERY (whole catch)



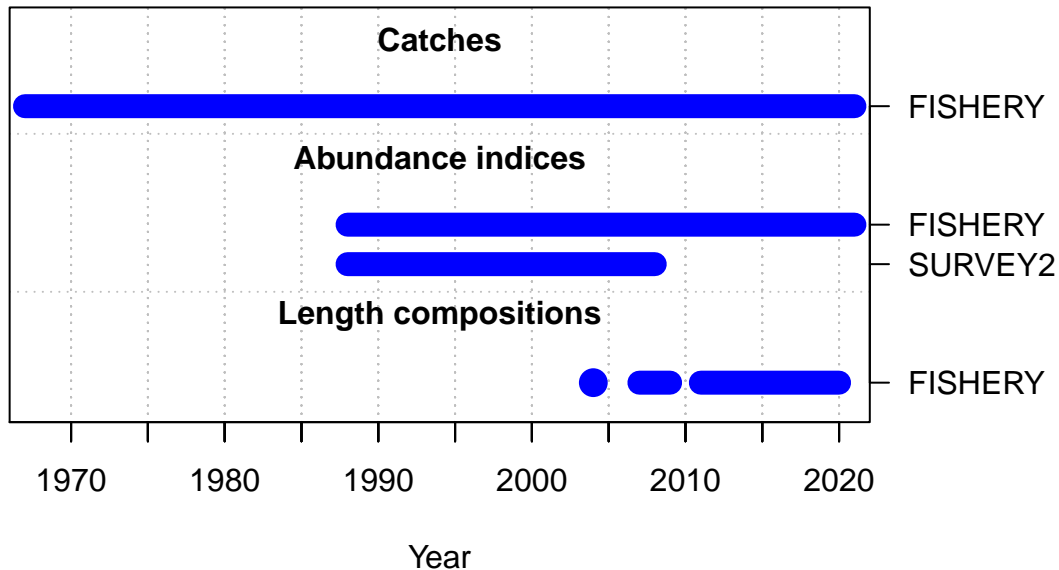


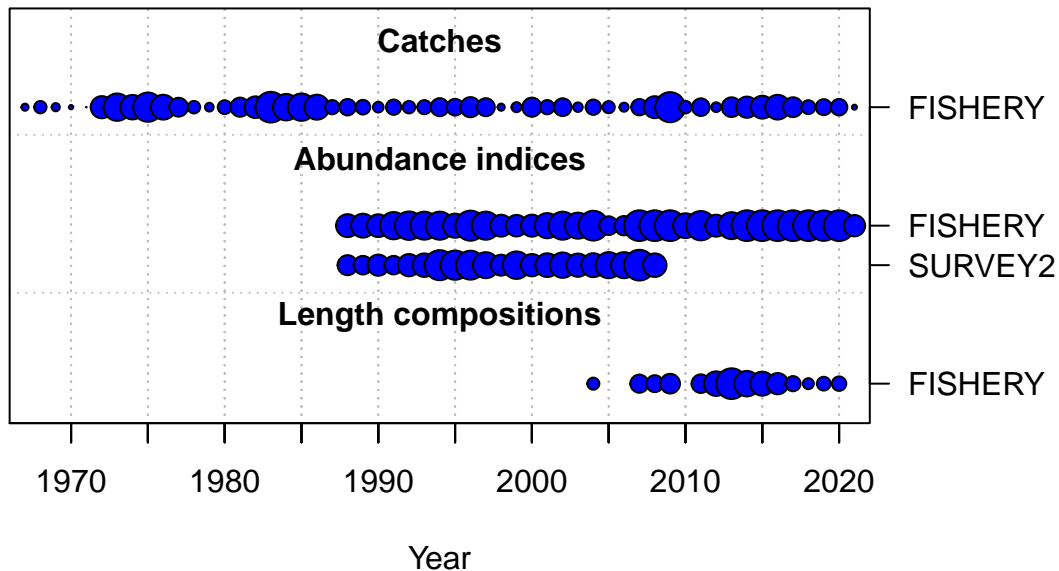




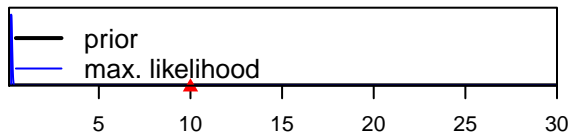




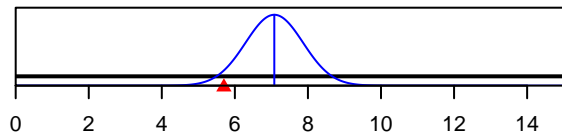




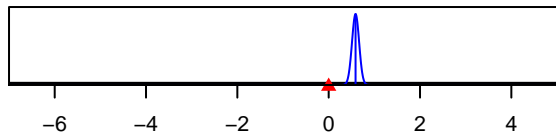
SR\_LN(R0)



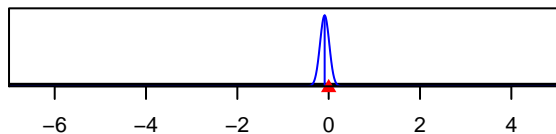
Size\_95%width\_FISHERY(1)



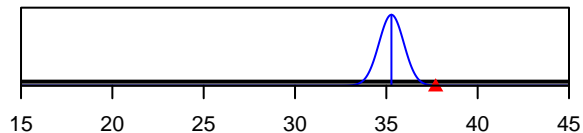
LnQ\_base\_FISHERY(1)



LnQ\_base\_SURVEY2(2)



Size\_inflection\_FISHERY(1)



Parameter value