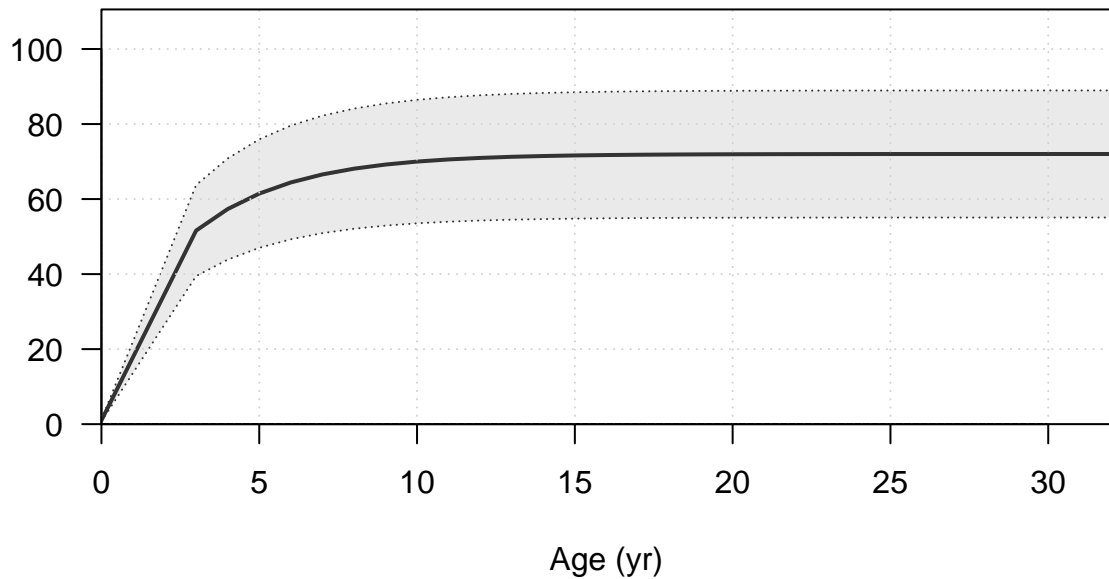
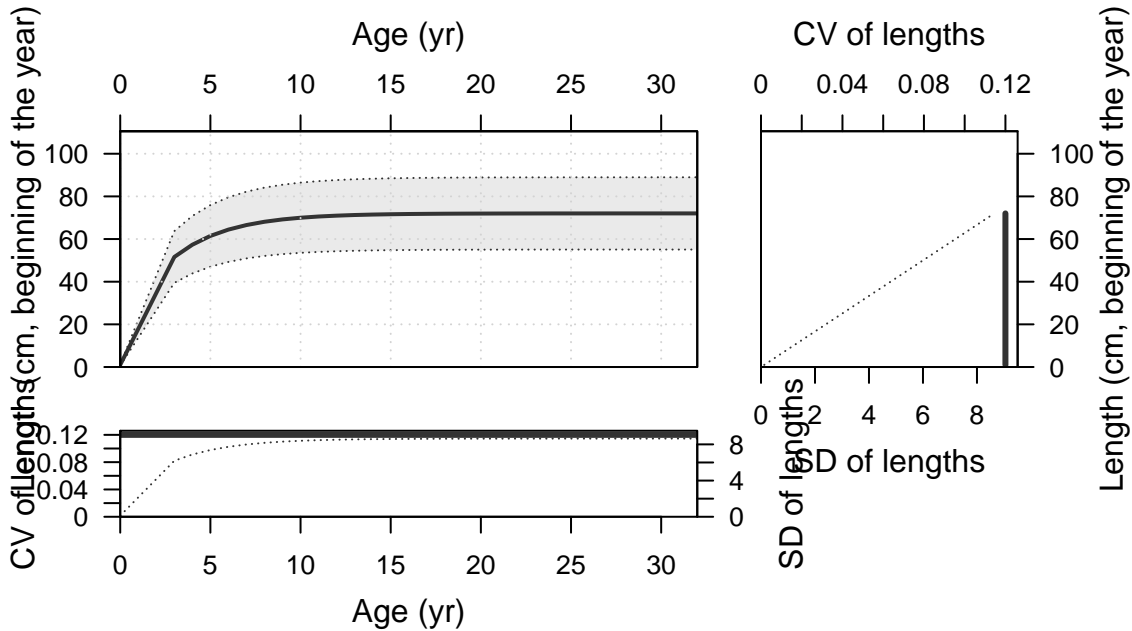
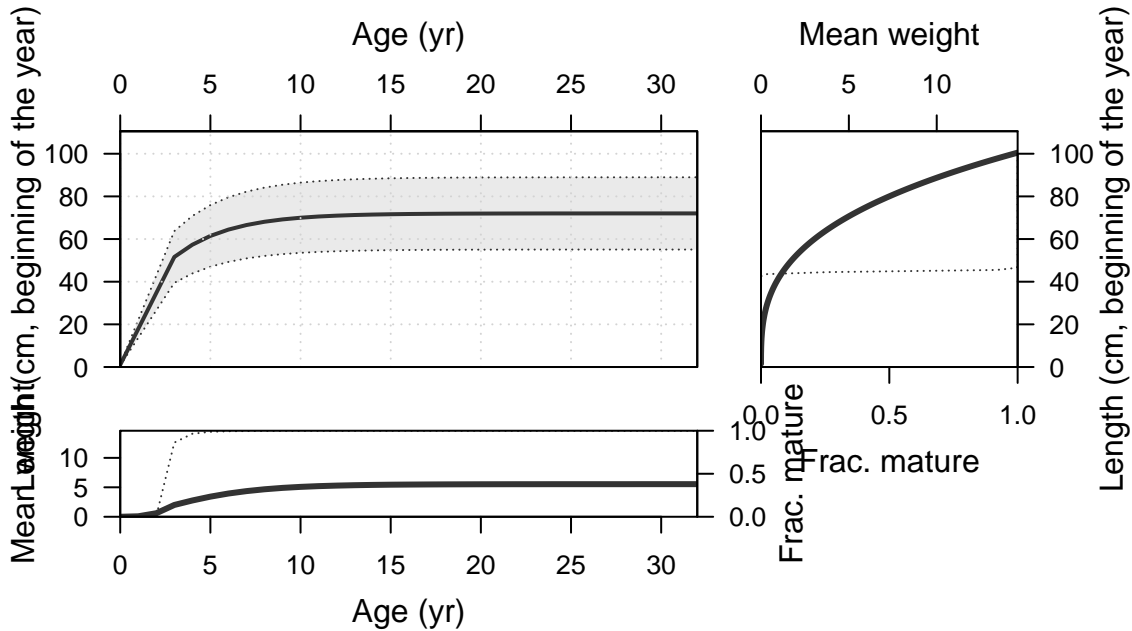


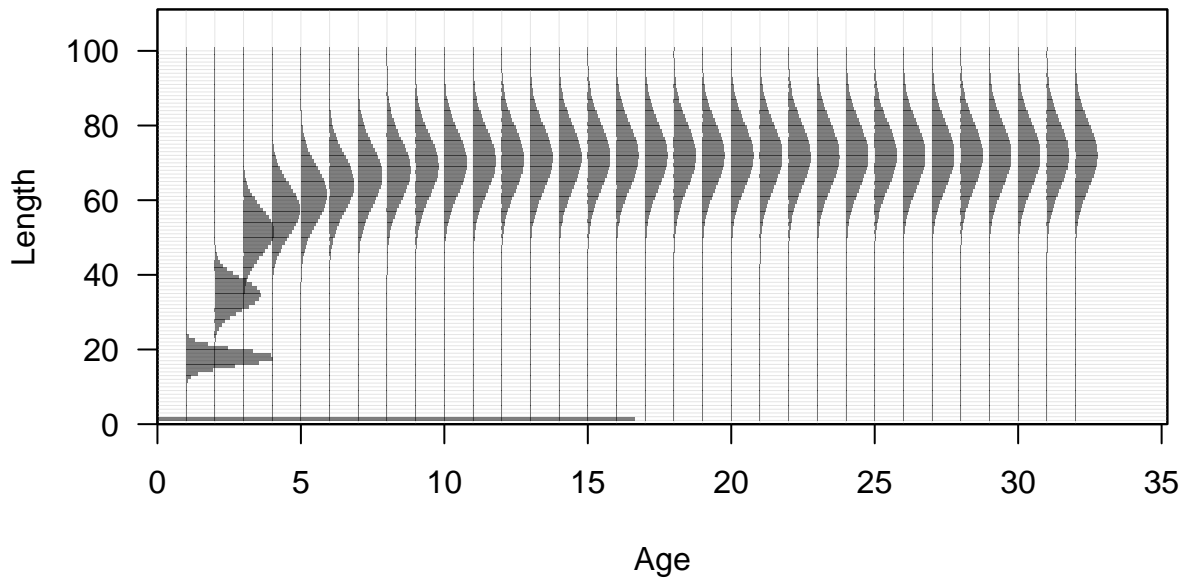
Plots created using the 'r4ss' package in R  
Stock Synthesis version: 3.30.19.0  
StartTime: Fri Jun 17 12:16:24 2022  
Data\_File: data.ss  
Control\_File: control.ss

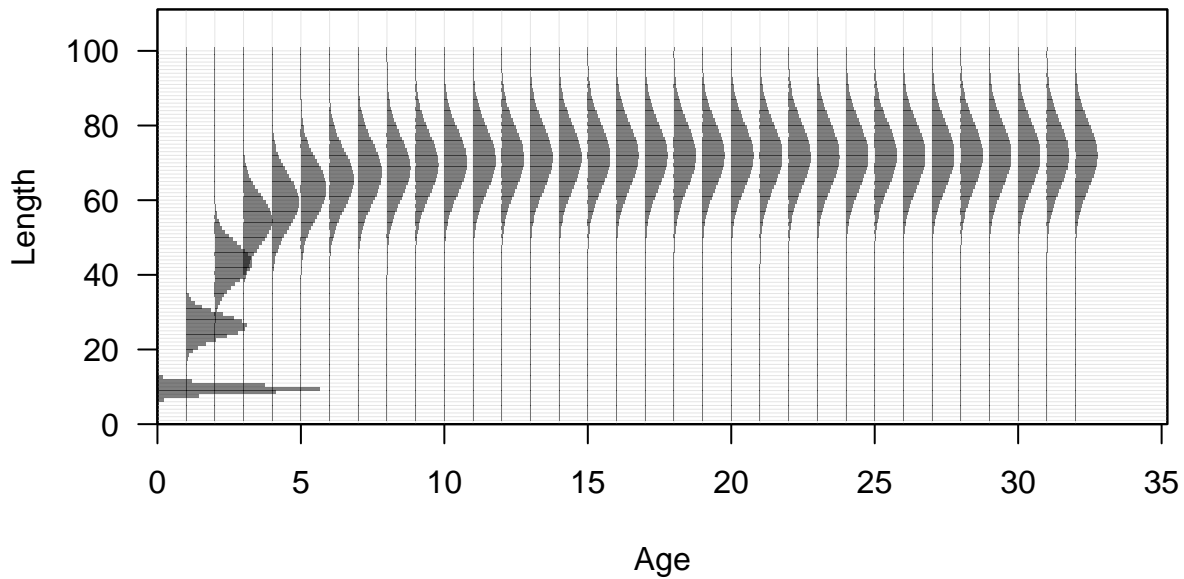
Length (cm, beginning of the year)



















Fecundity

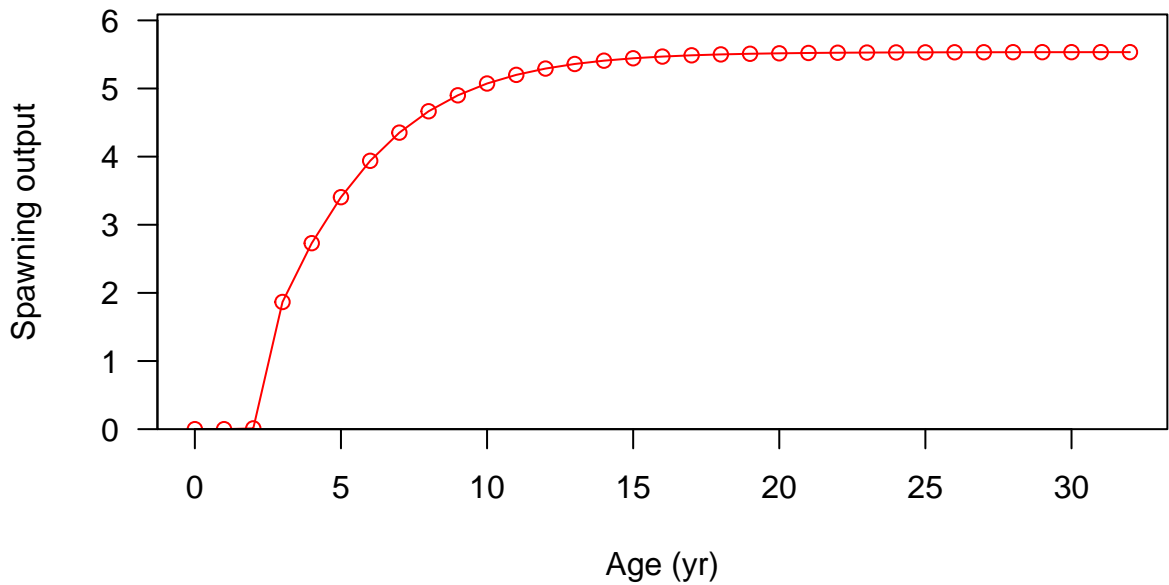


Fecundity

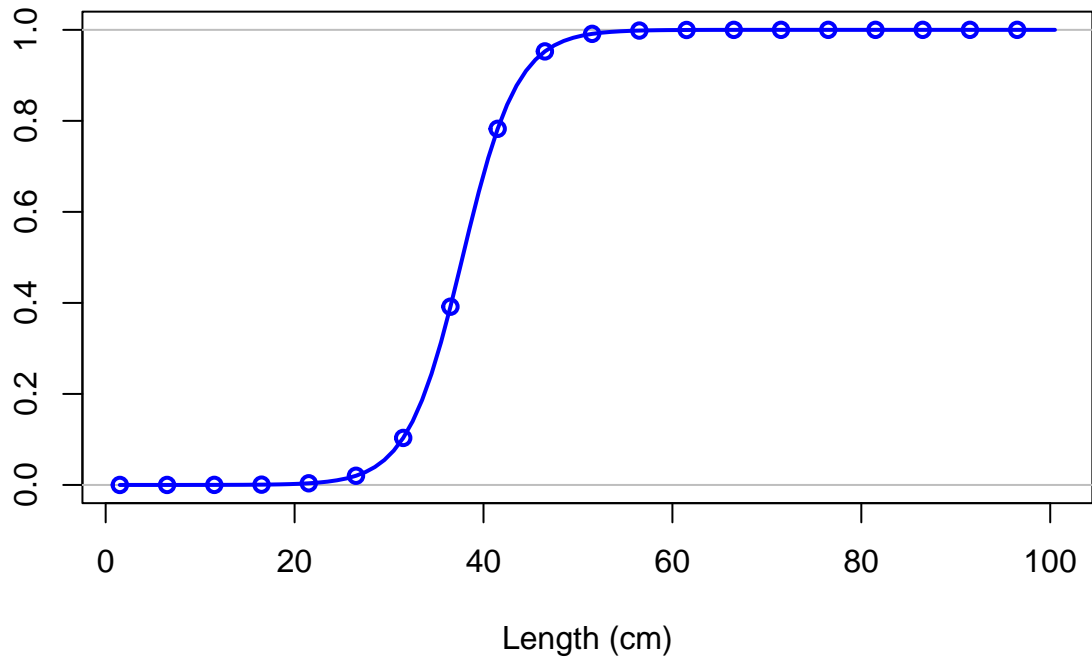


Spawning output

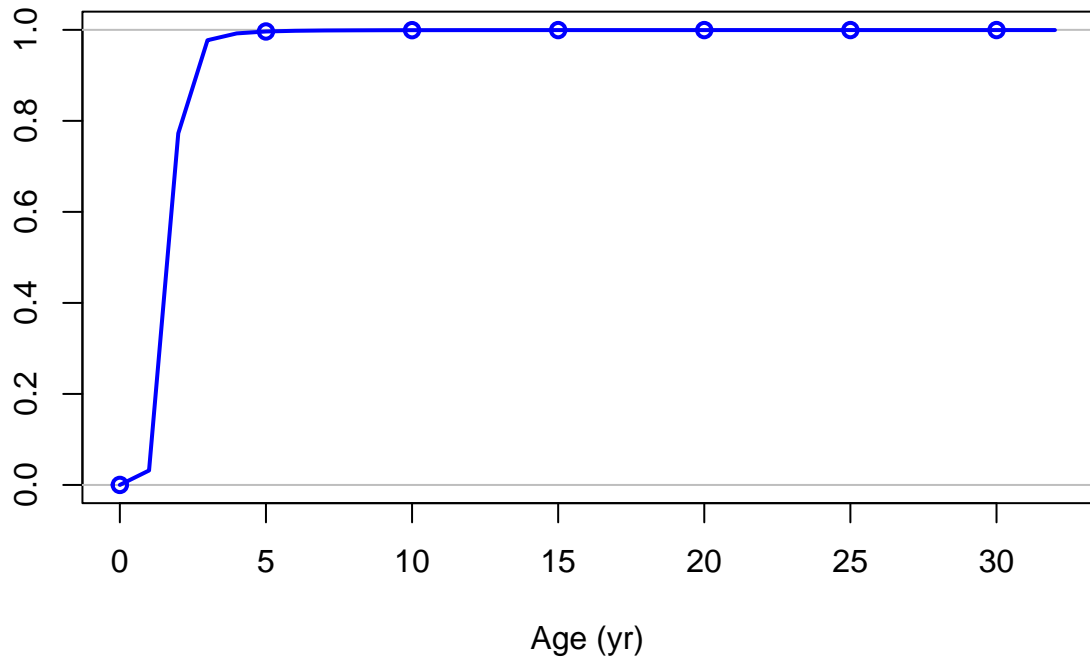




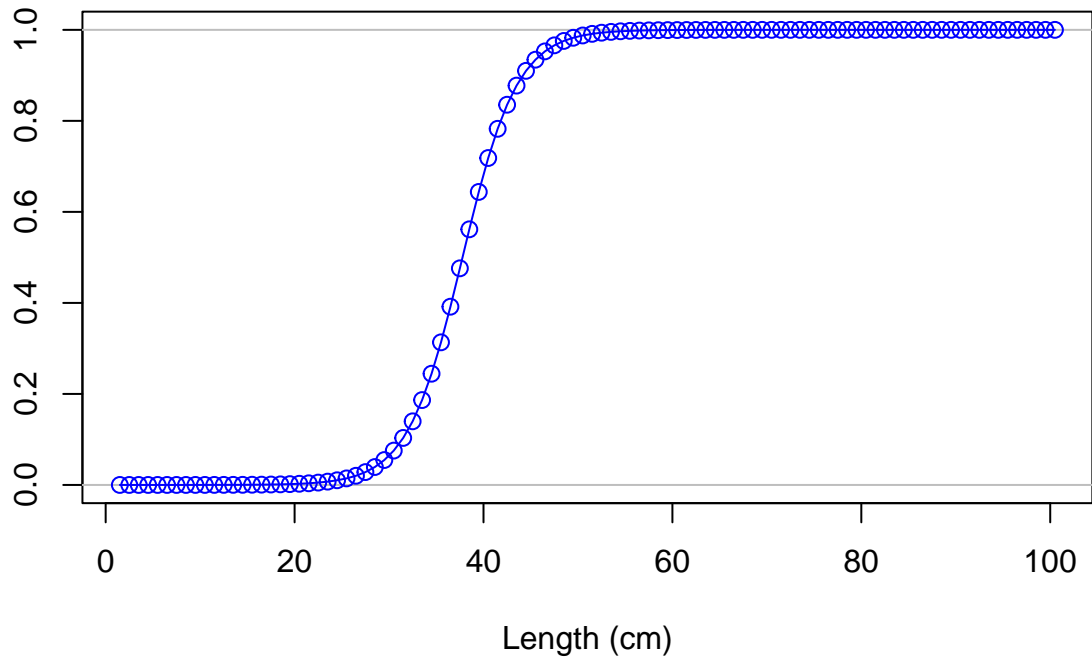
Selectivity



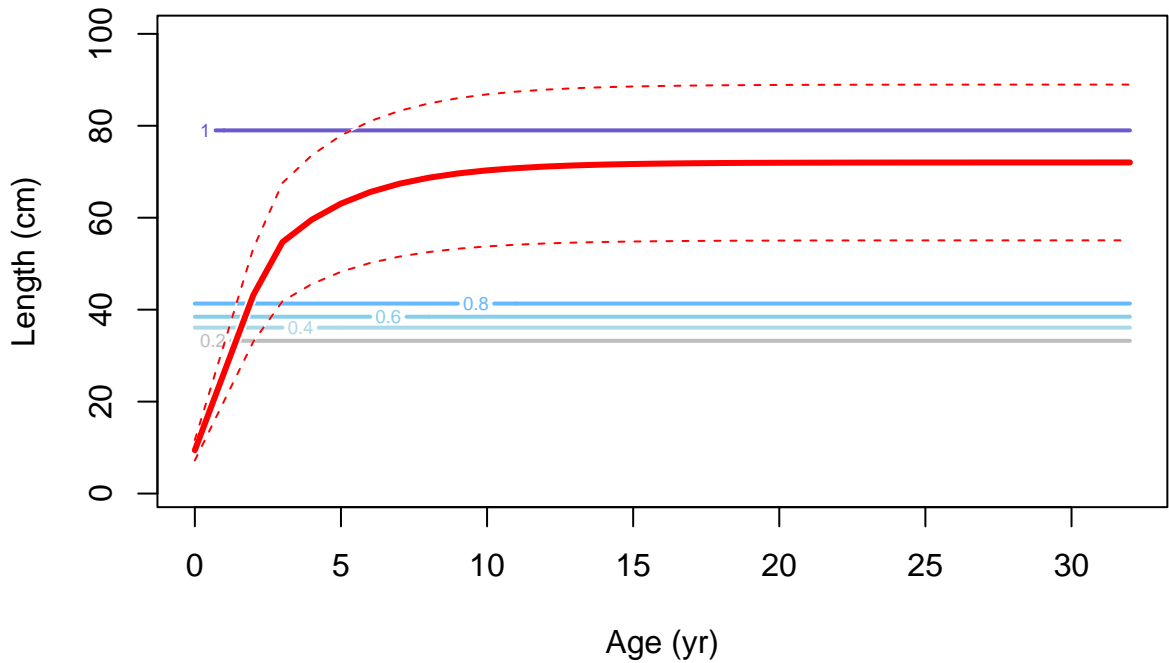
Selectivity

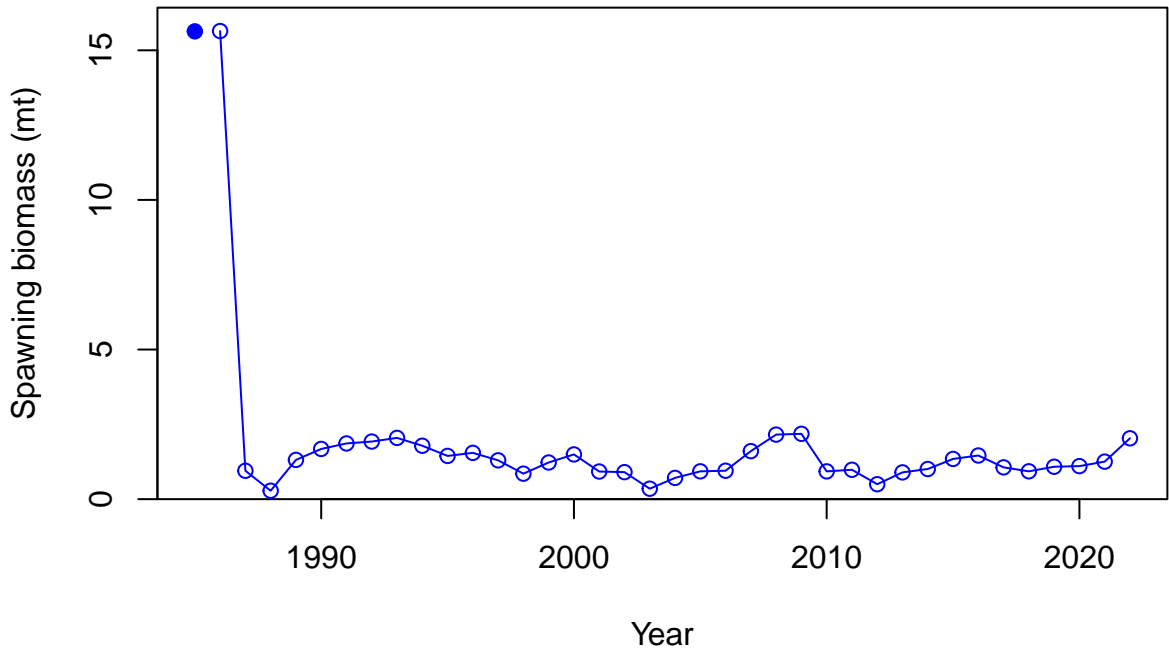


Selectivity

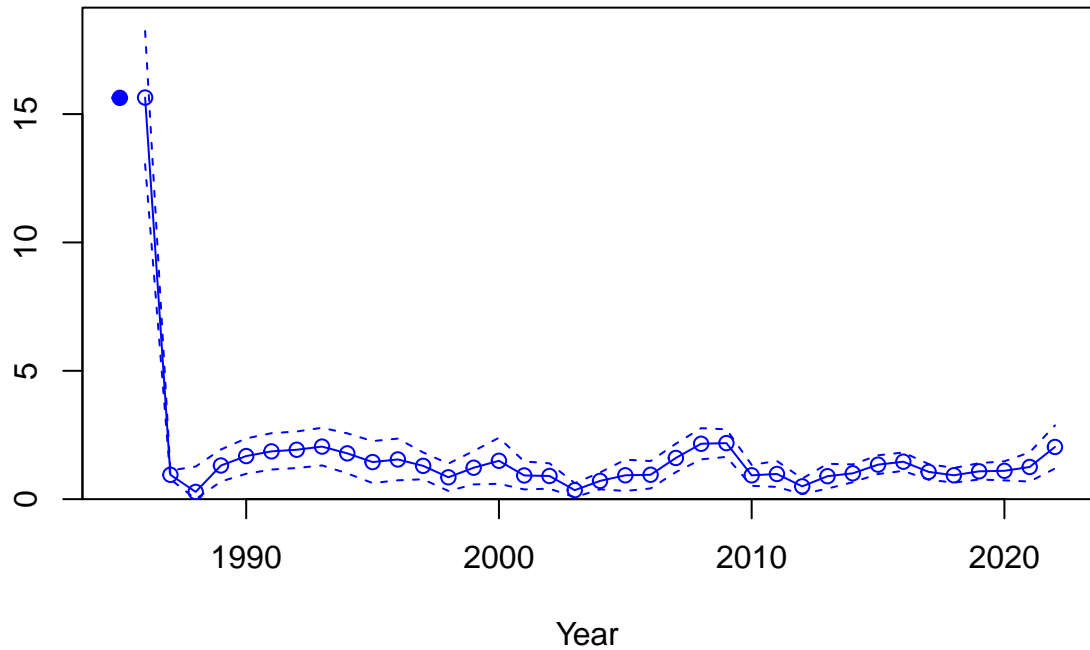




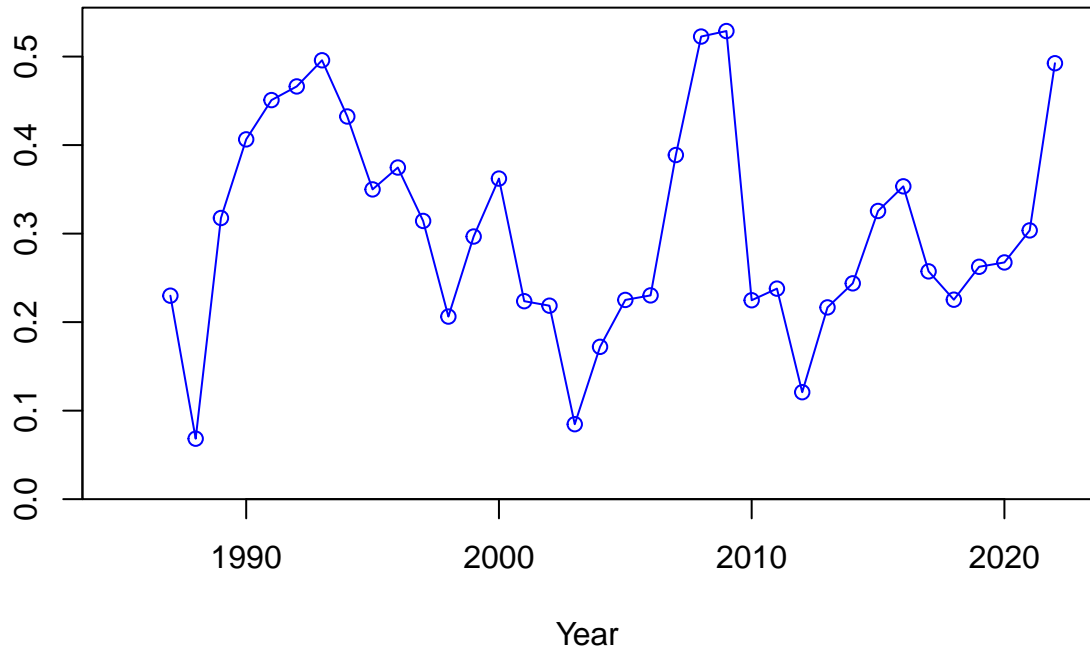




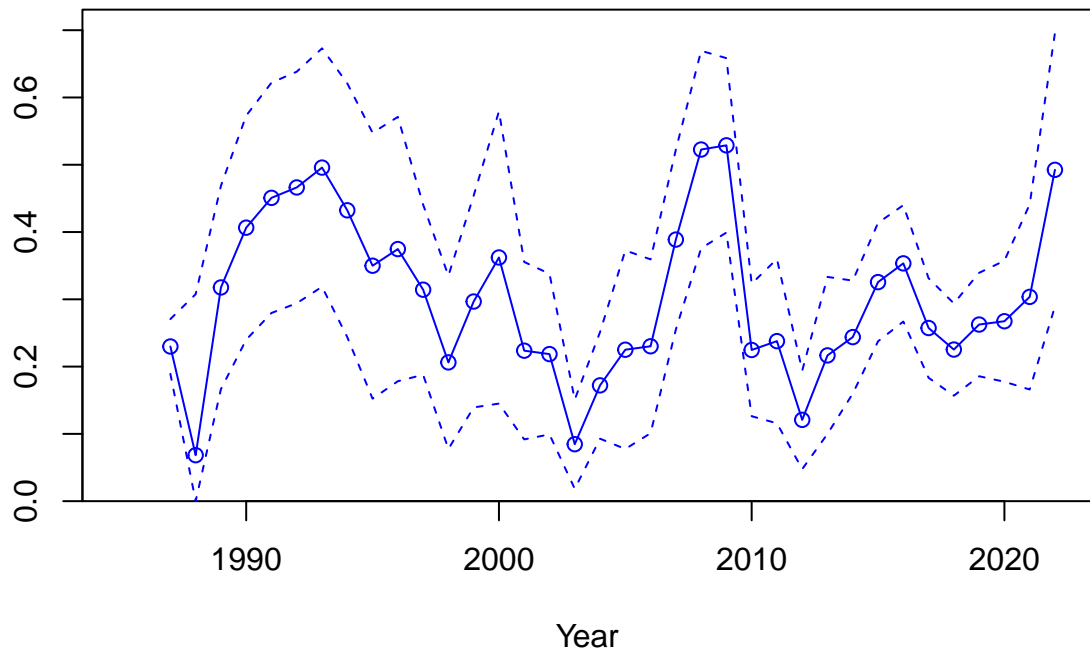
Spawning biomass (mt)

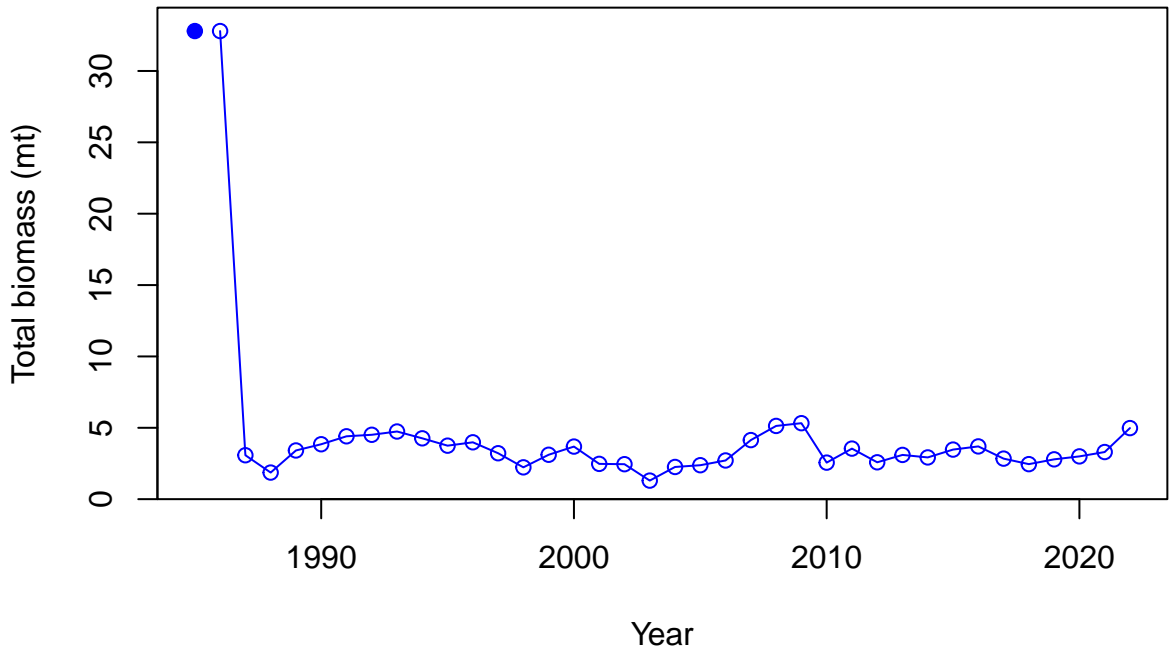


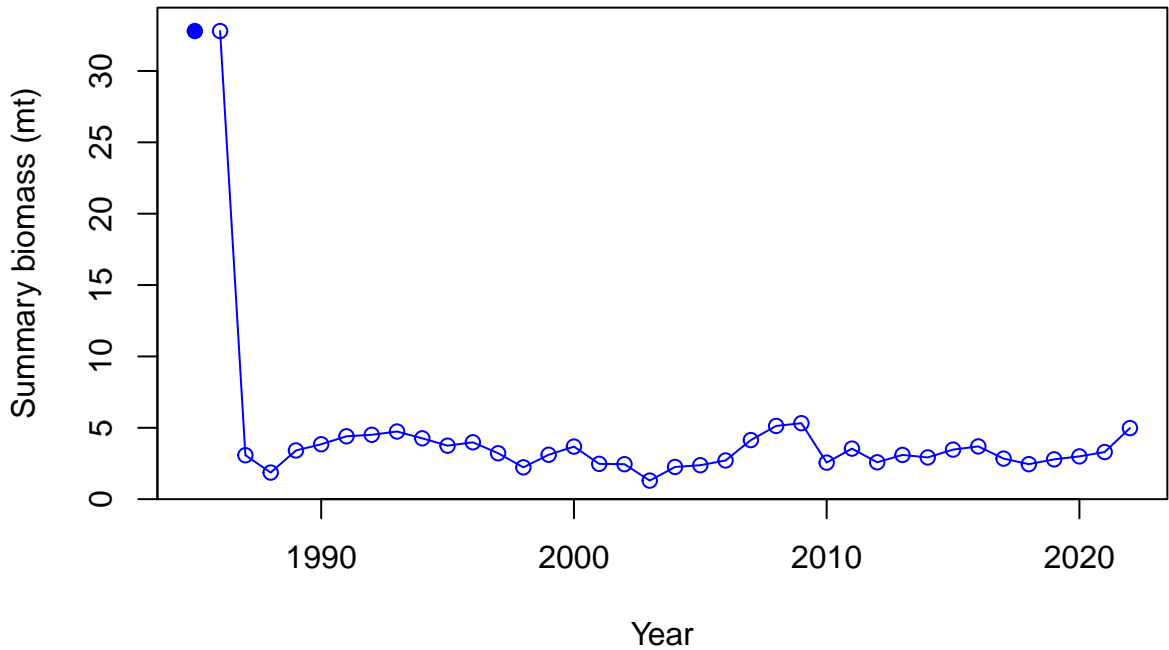
Relative spawning biomass:  $B/B_{MSY}$



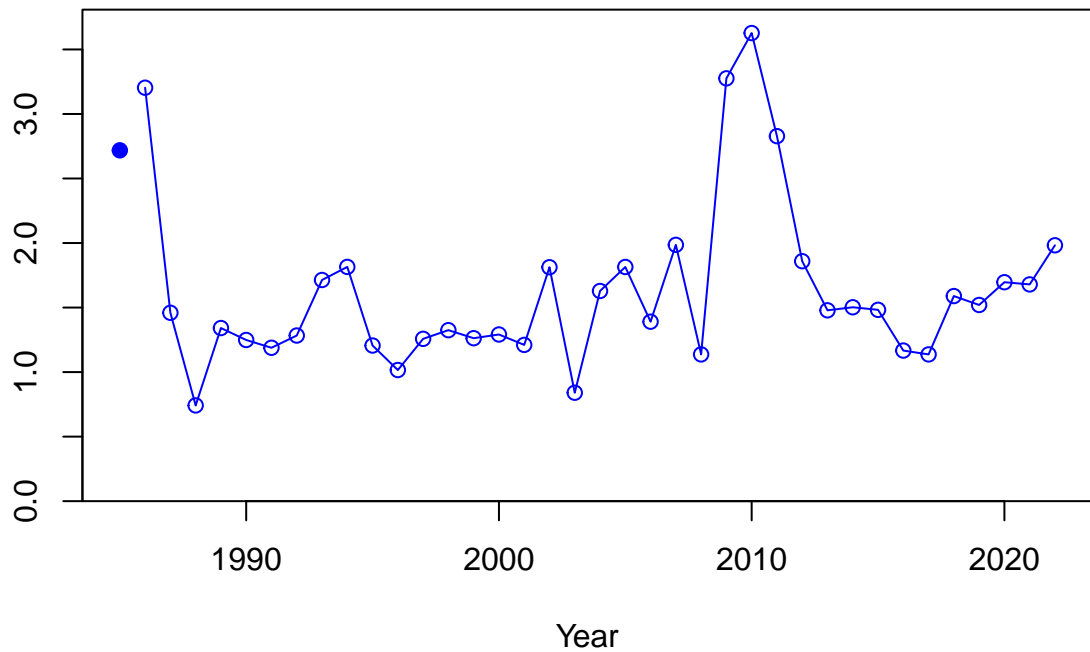
Relative spawning biomass:  $B/B_{MSY}$





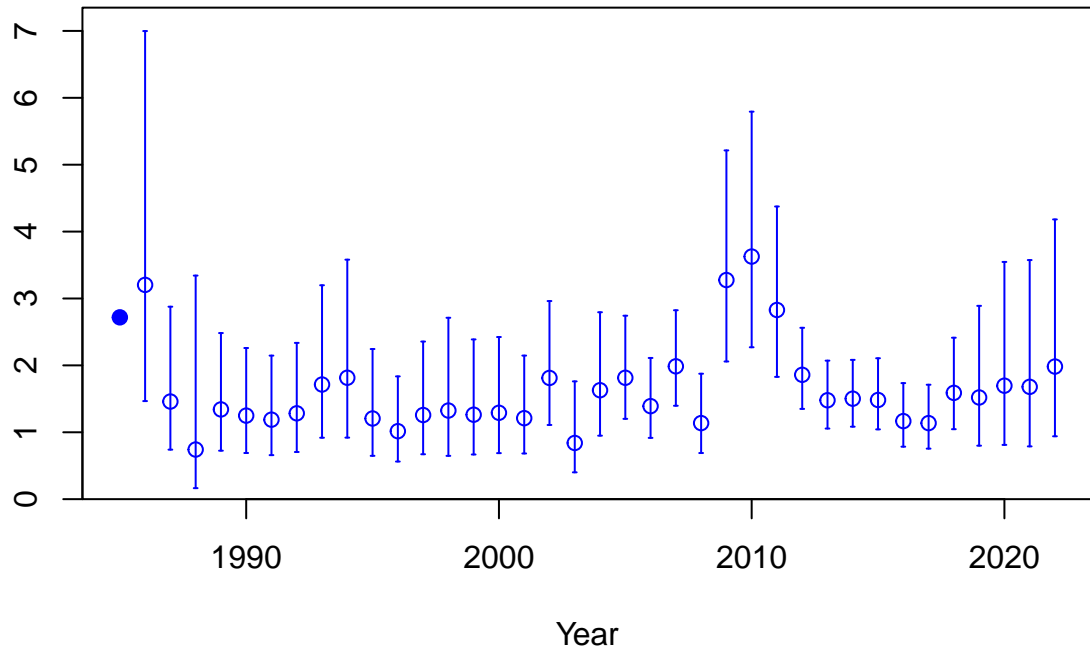


Age-0 recruits (1,000s)

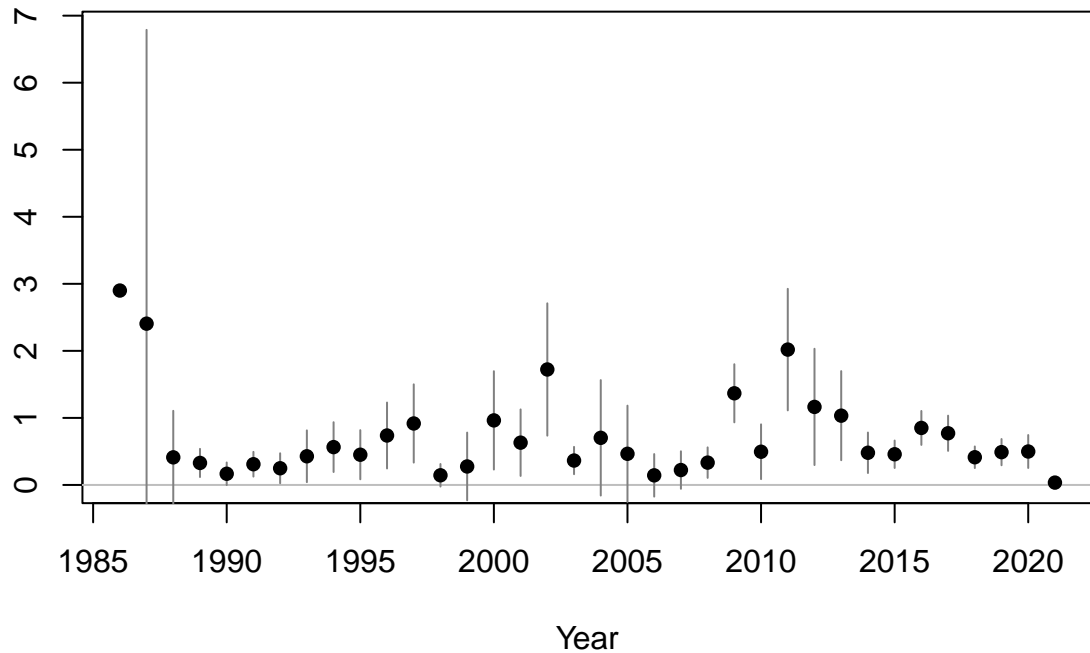


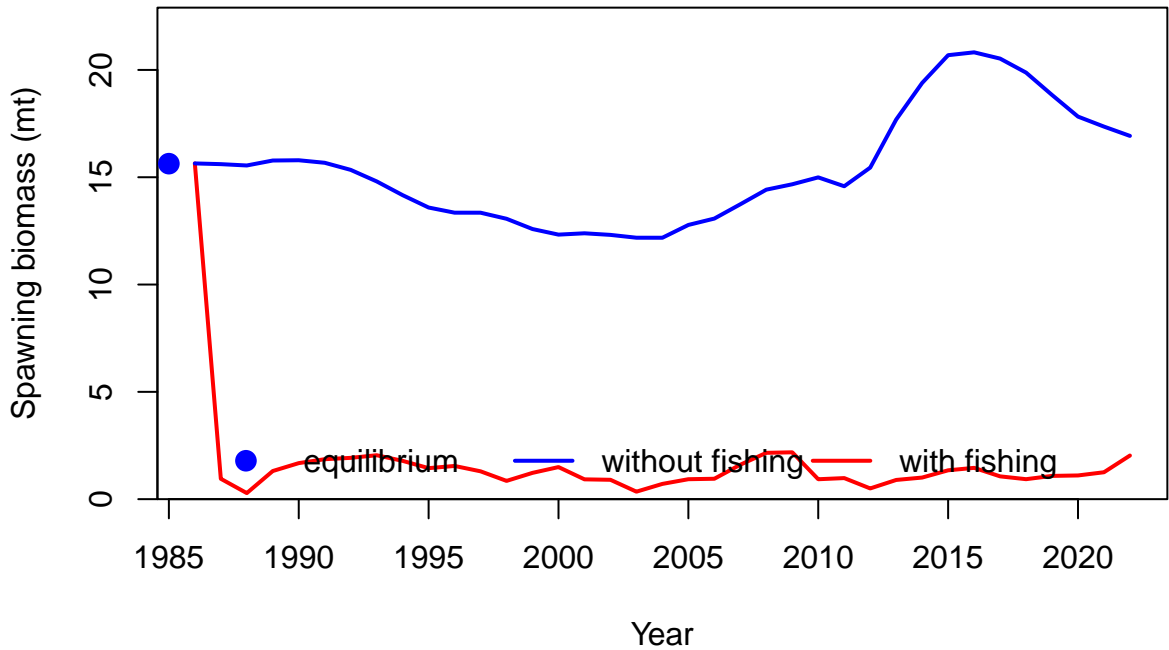


Age-0 recruits (1,000s)

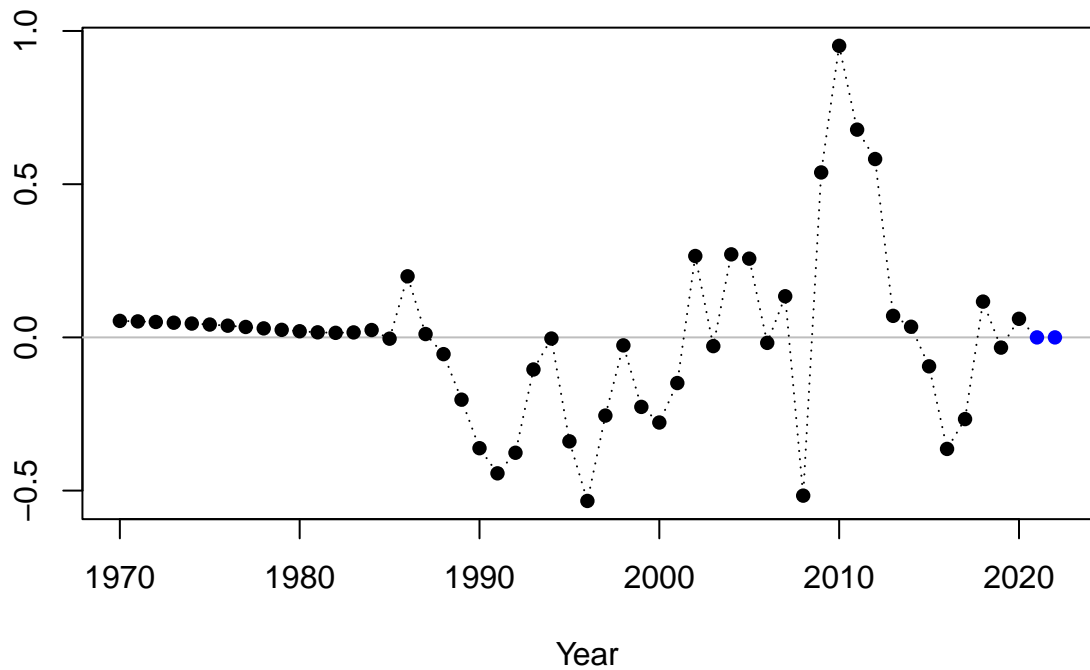


Summary Fishing Mortality

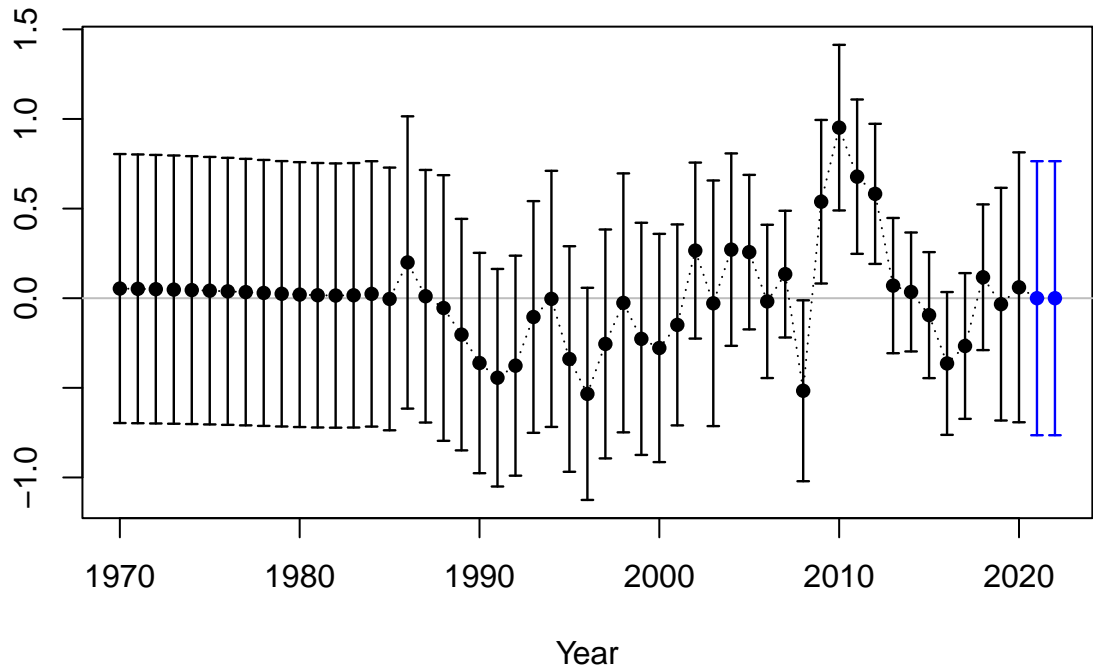




Log recruitment deviation

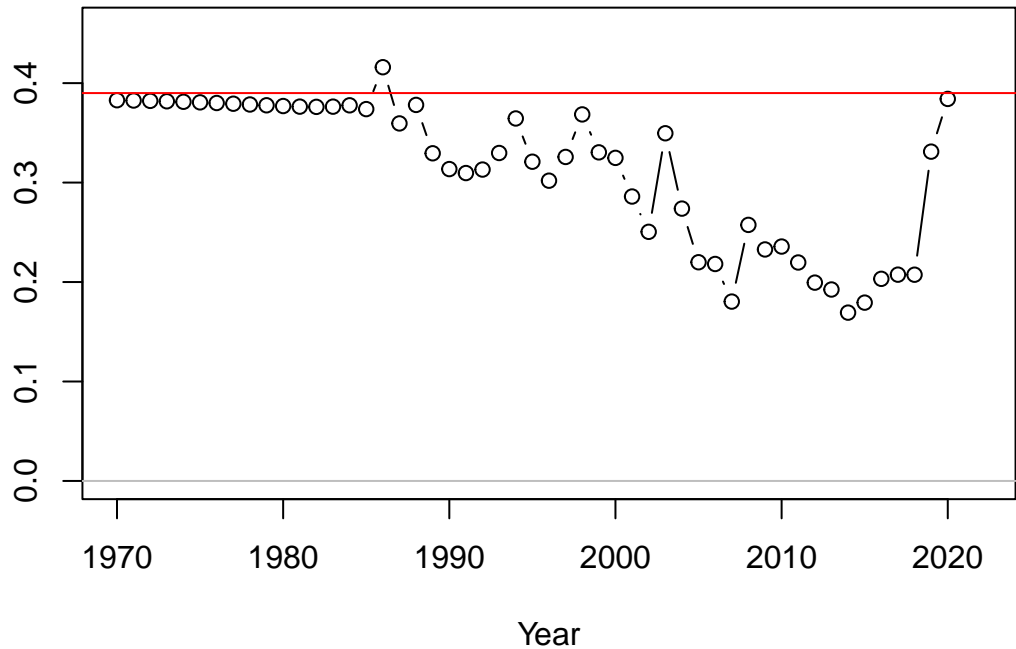


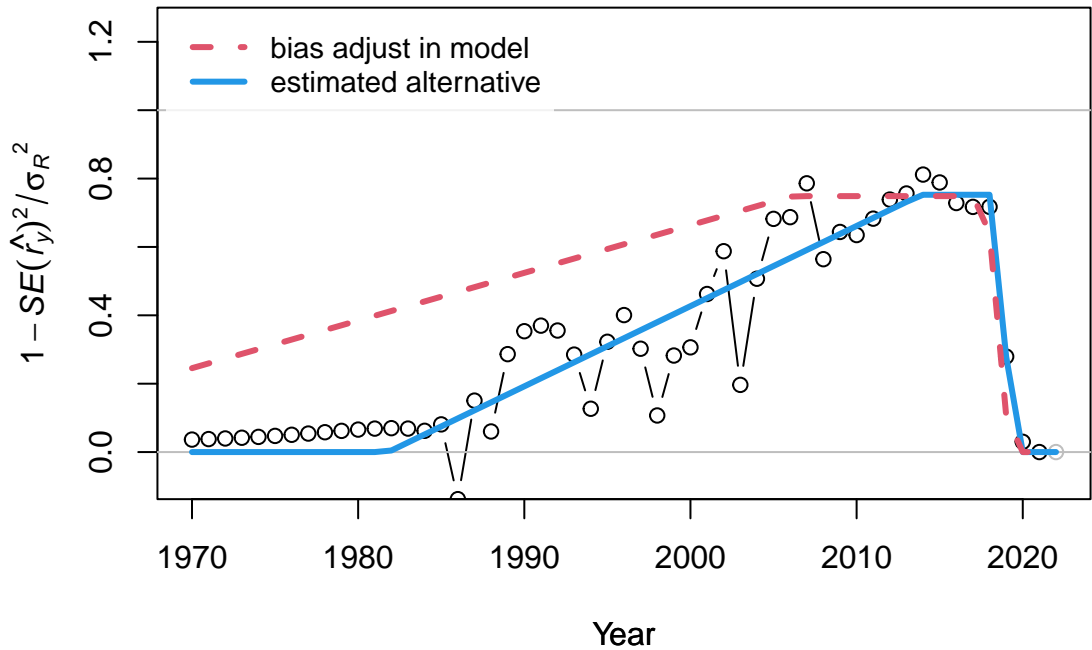
Log recruitment deviation

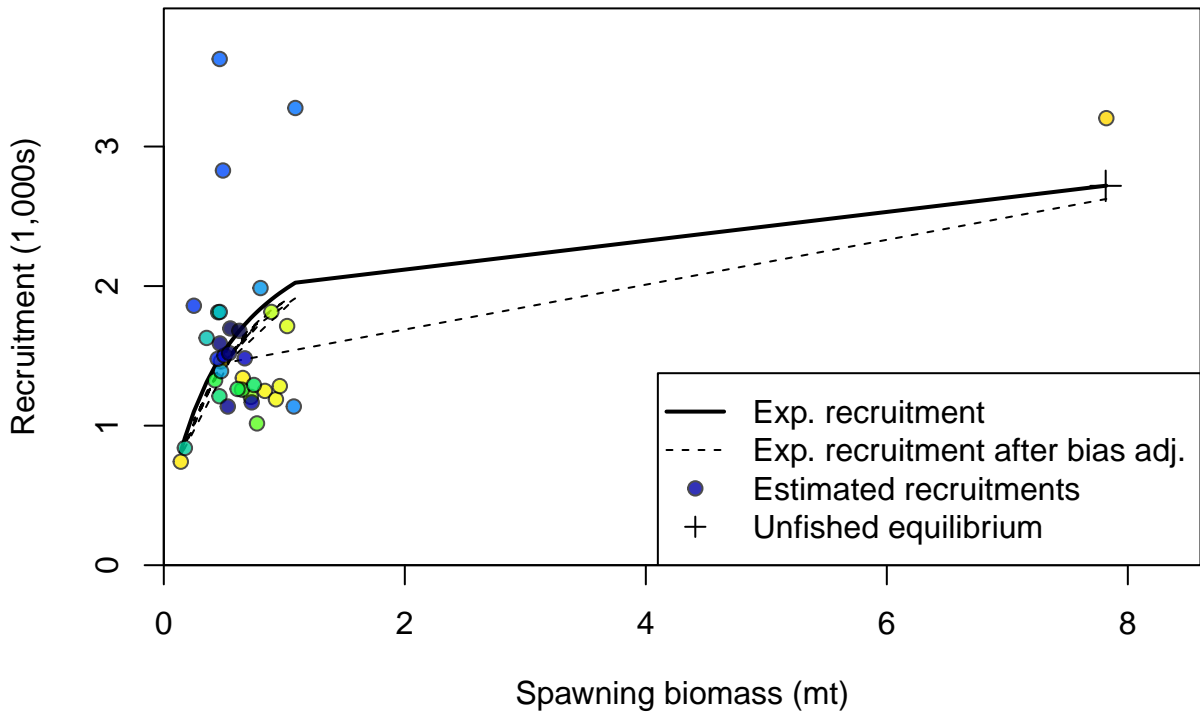


## Recruitment deviation variance

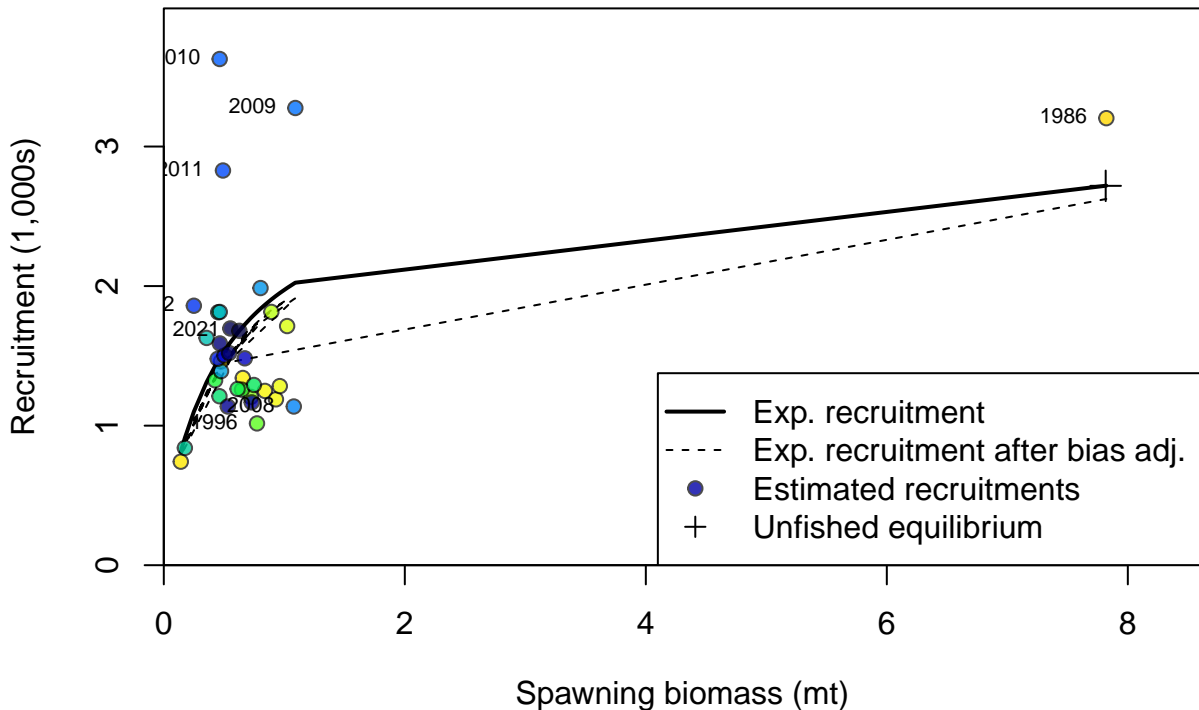
Asymptotic standard error estimate



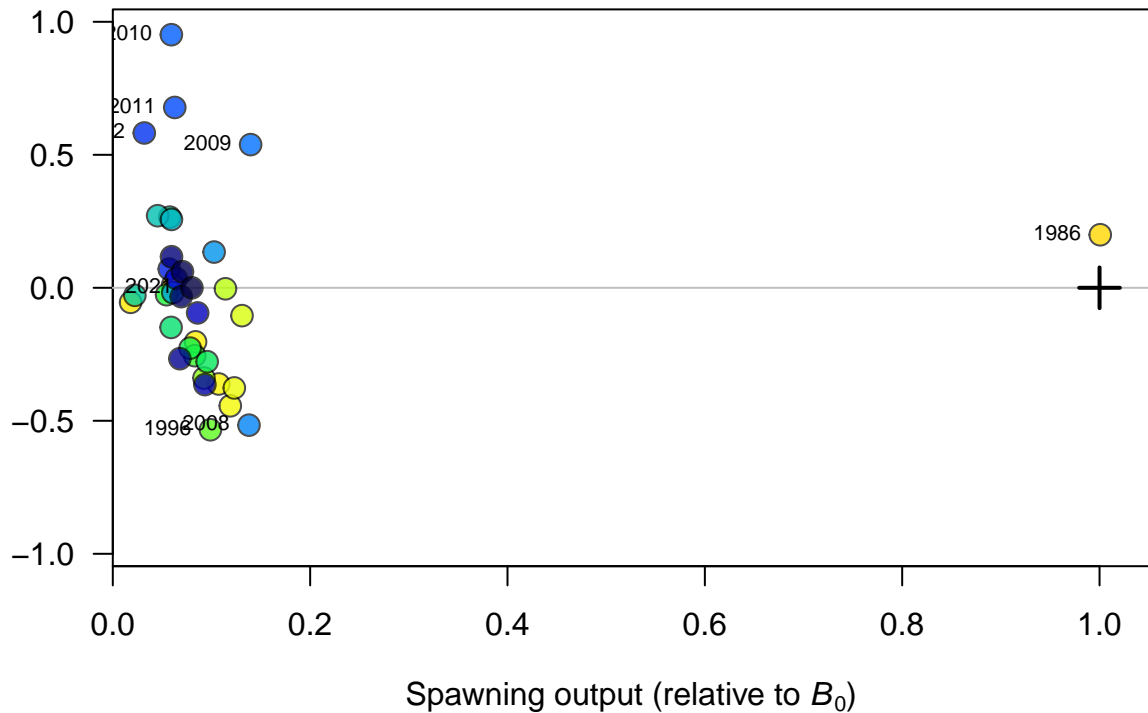


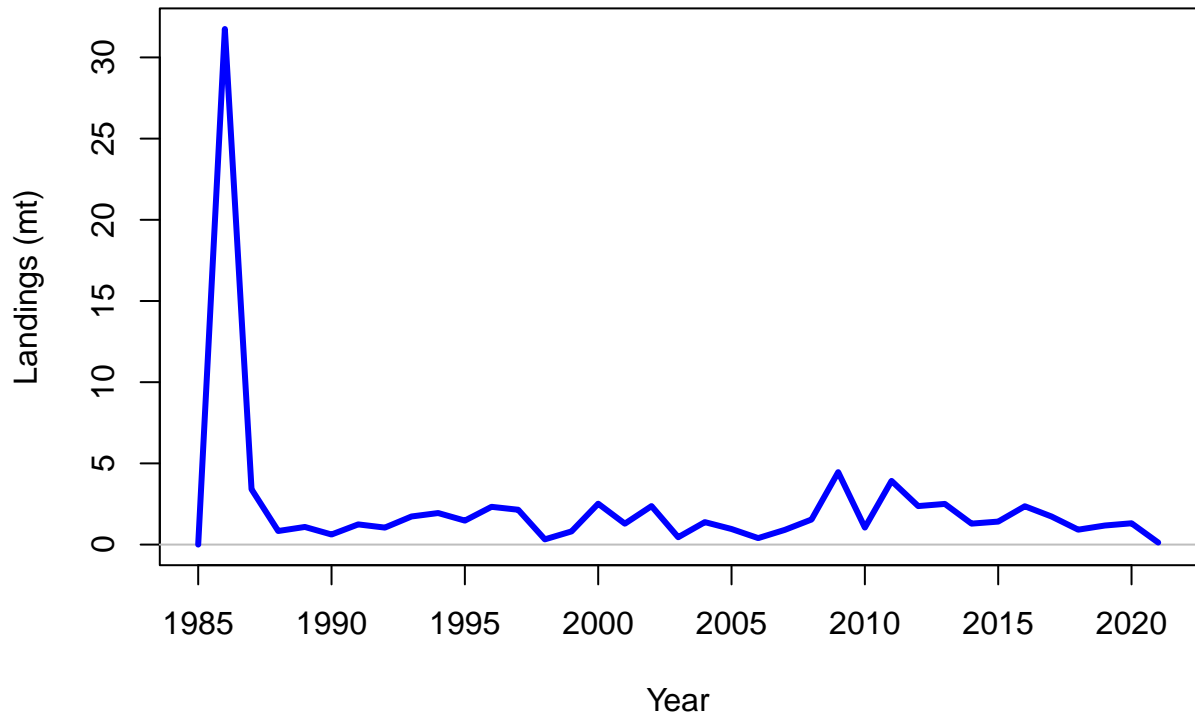


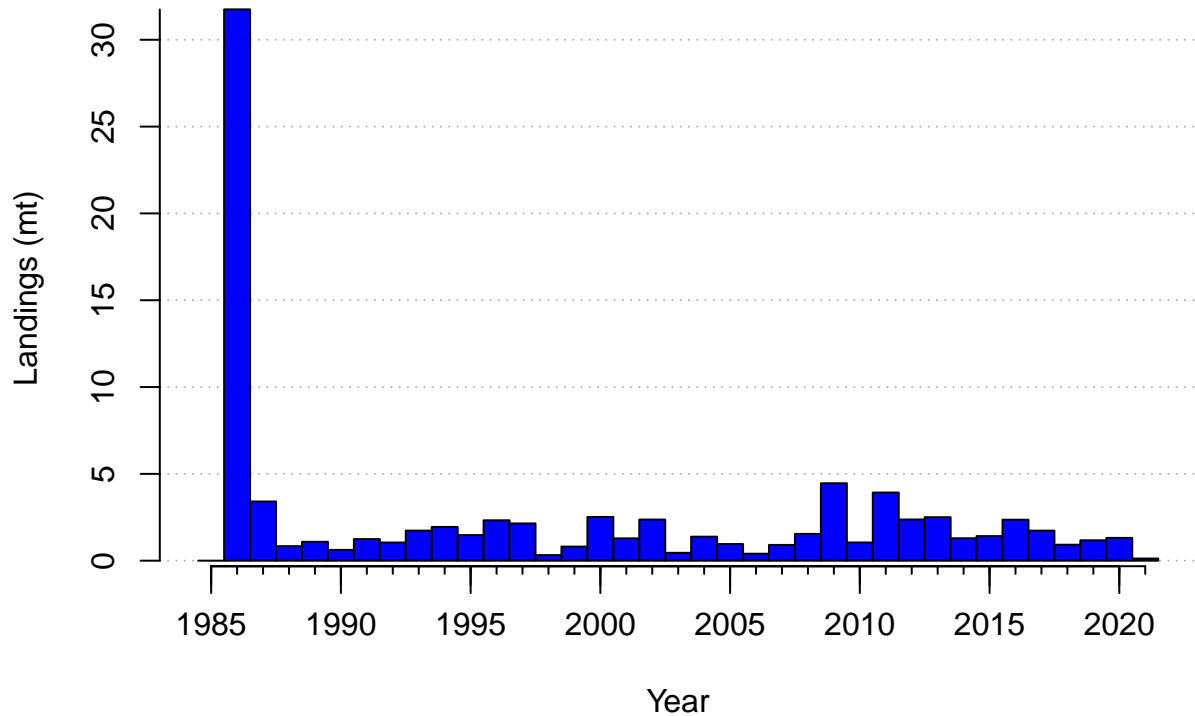


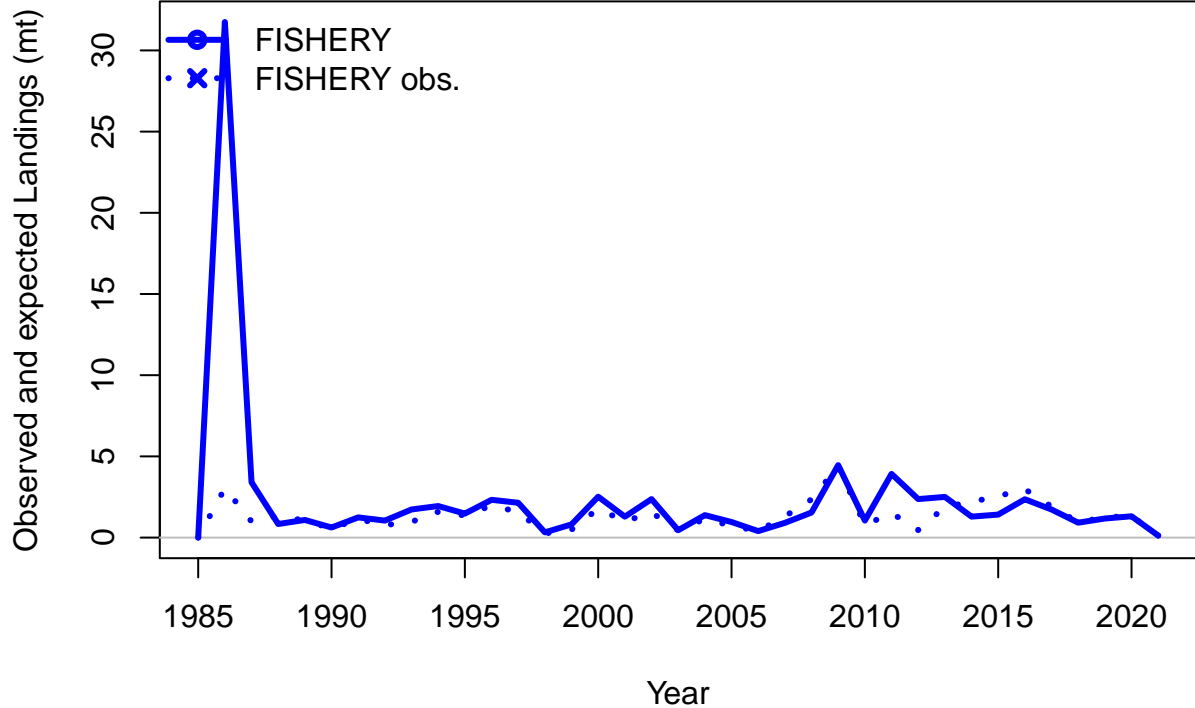


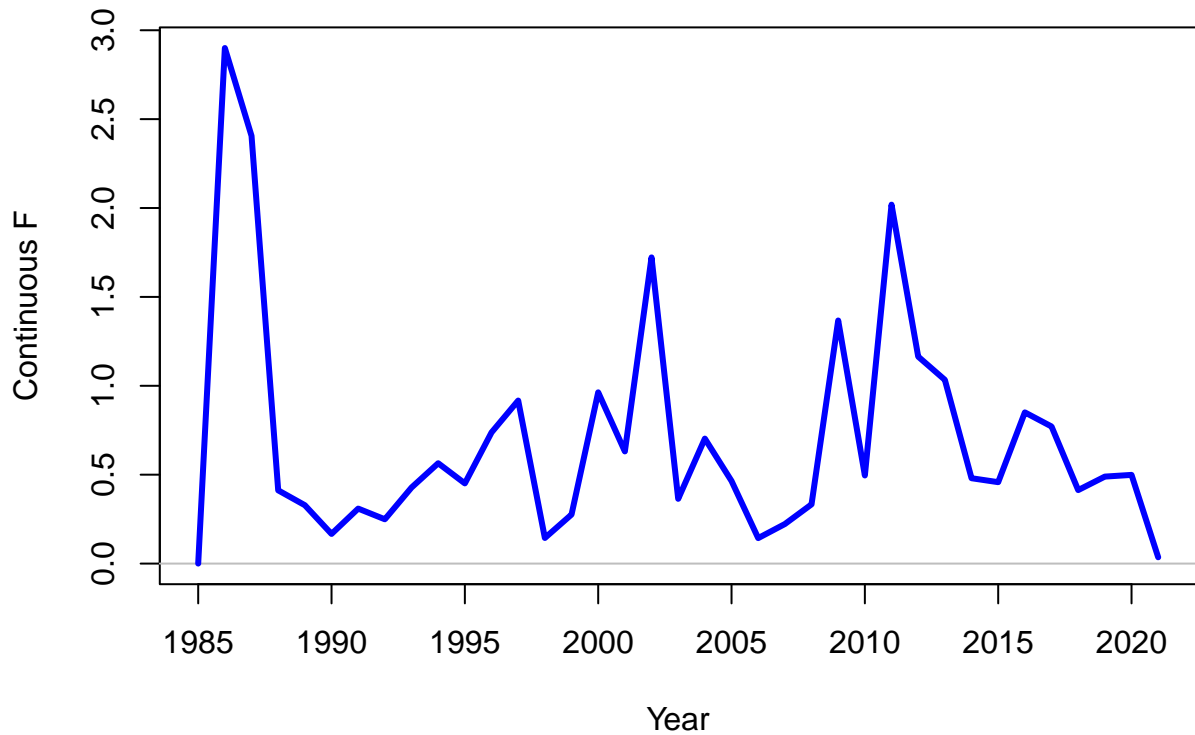
Log recruitment deviation



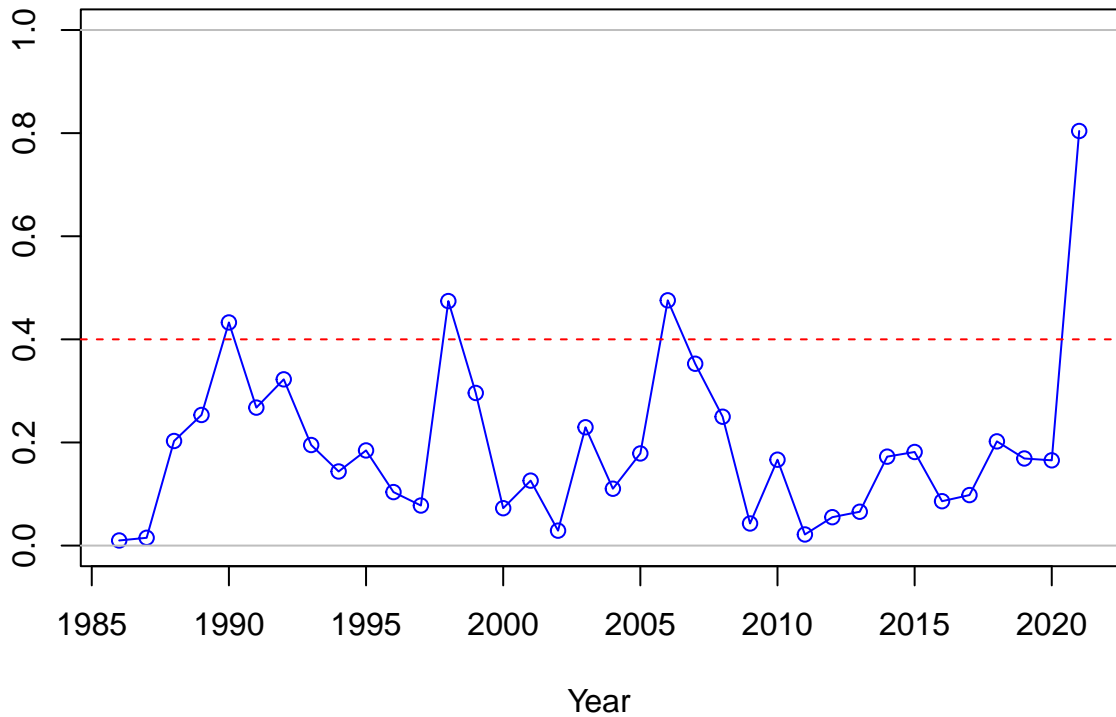




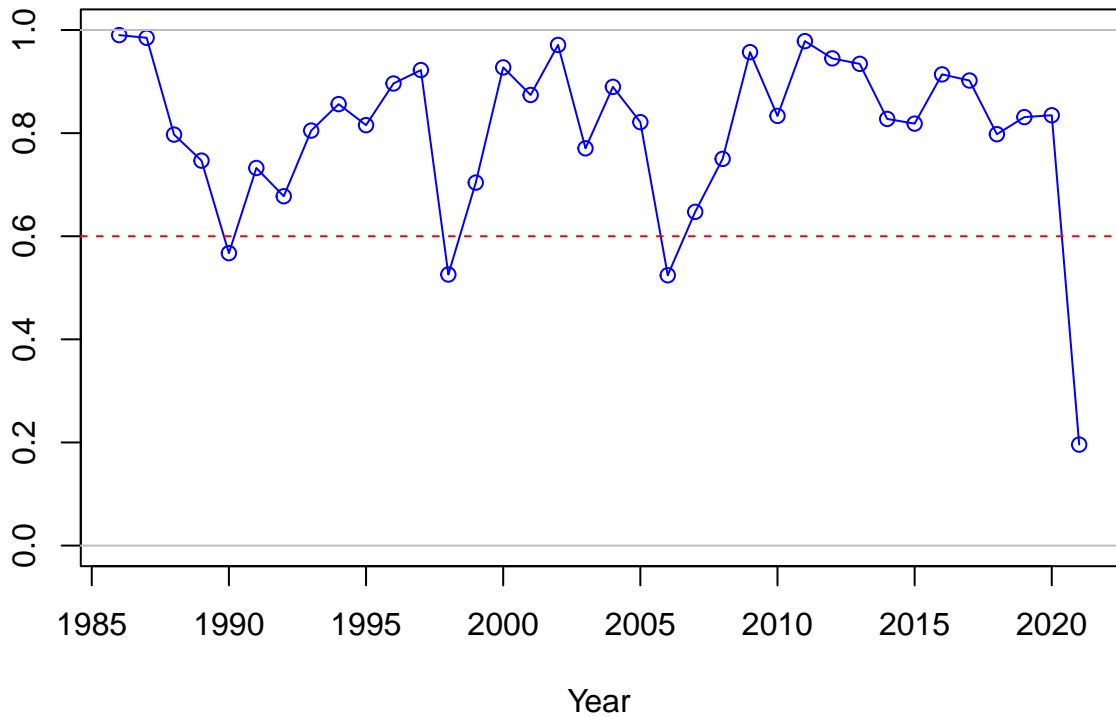




SPR

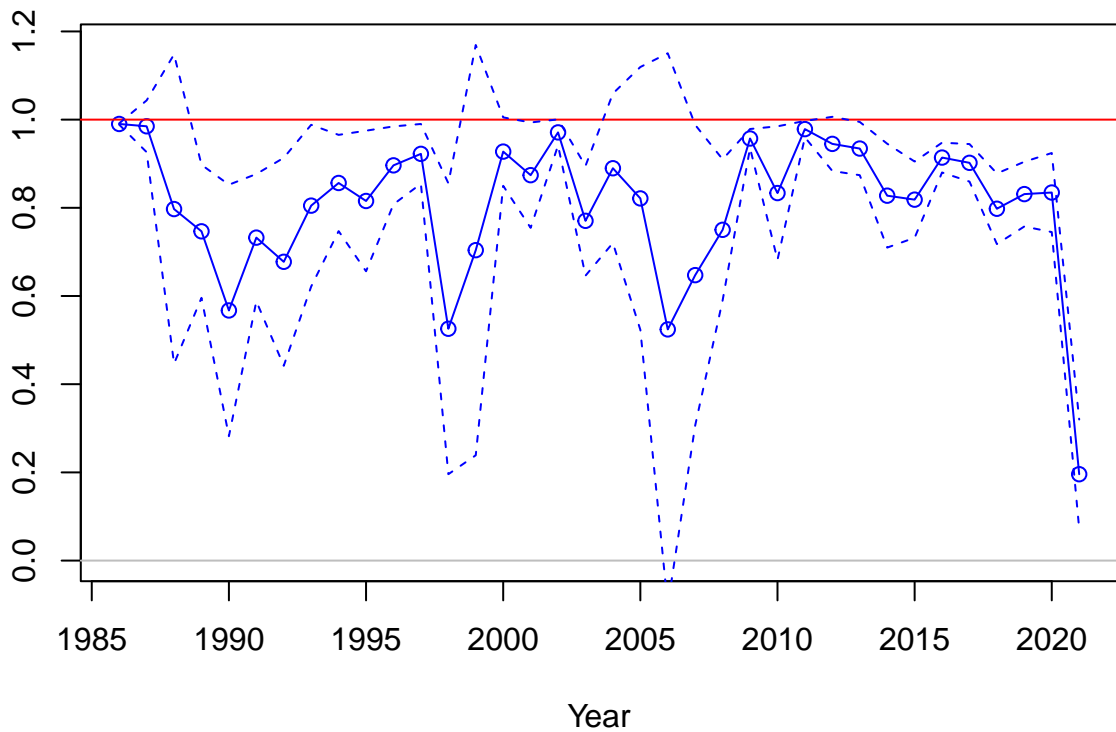


1-SPR

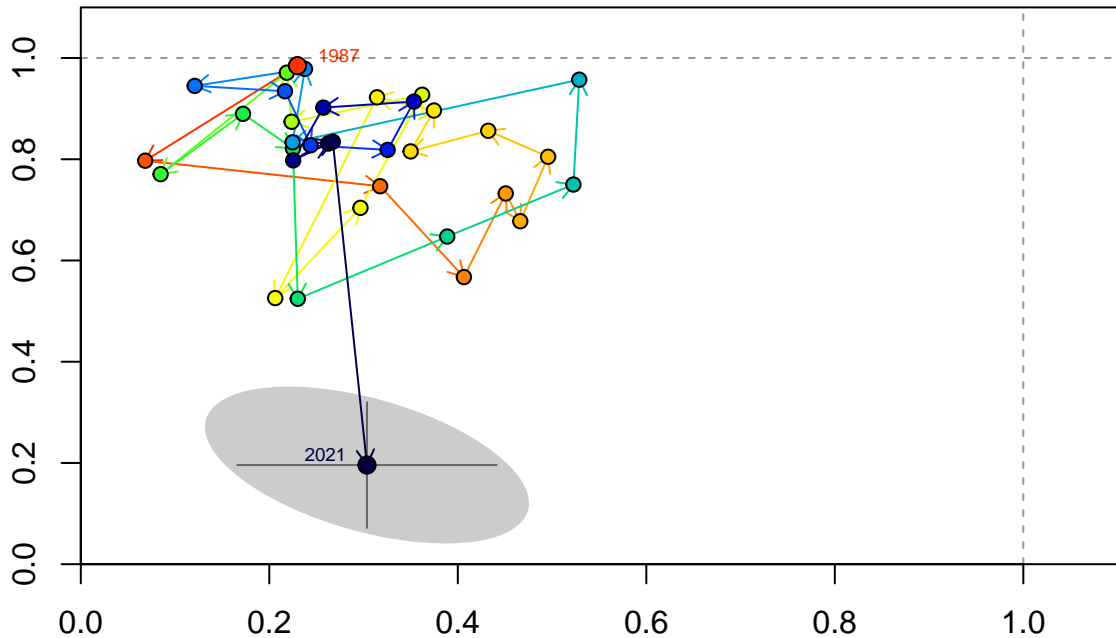




Fishing intensity: 1-SPR

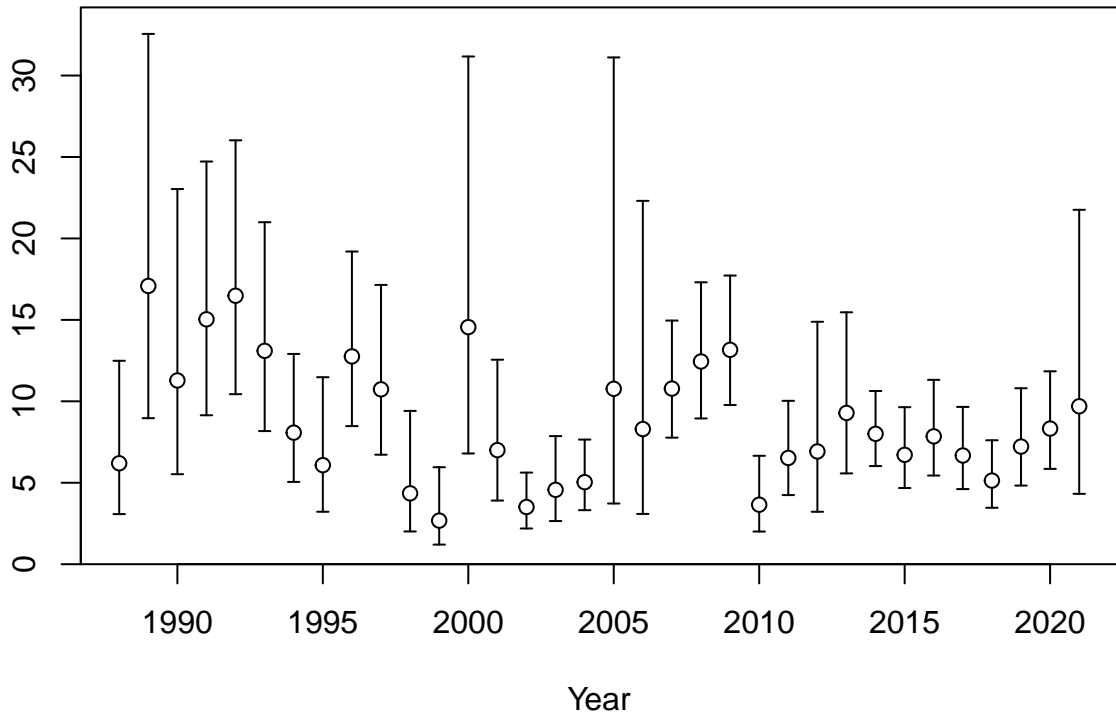


Fishing intensity: 1-SPR

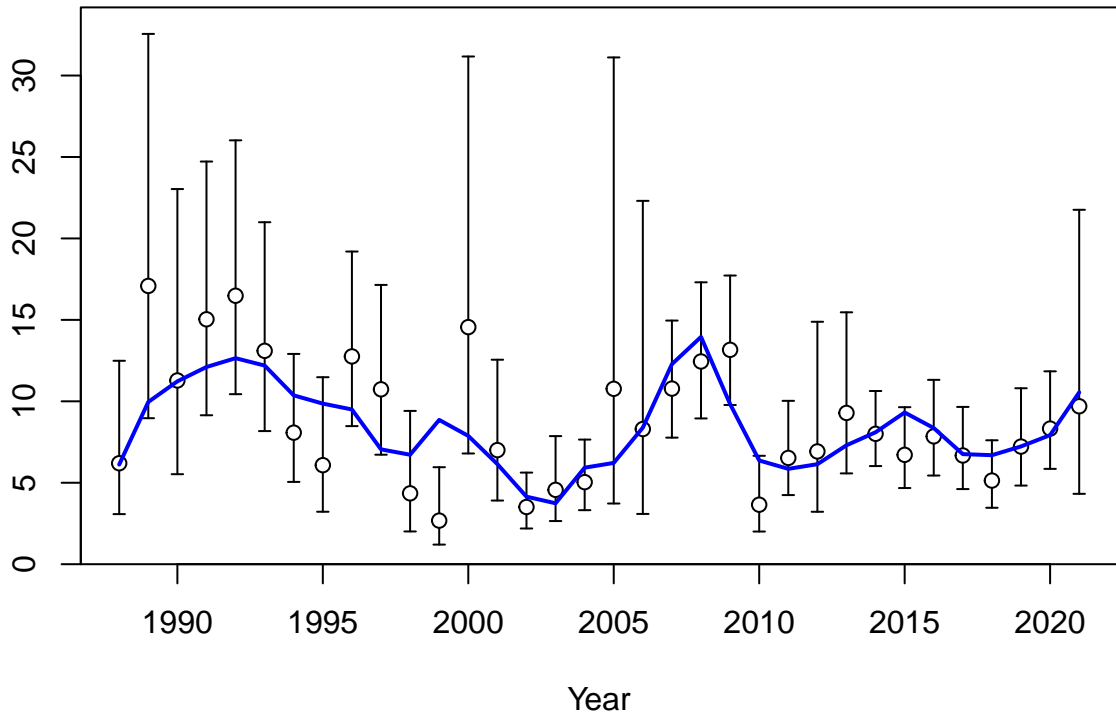


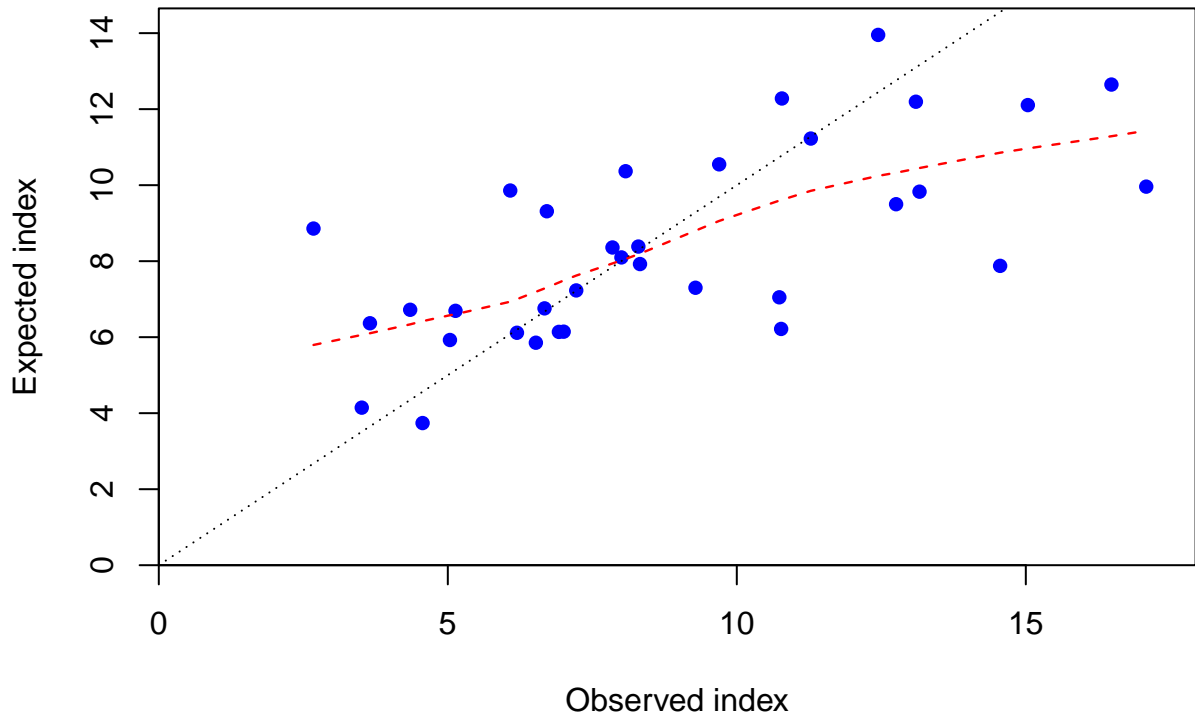
Relative spawning output:  $B/B_{MSY}$

Index

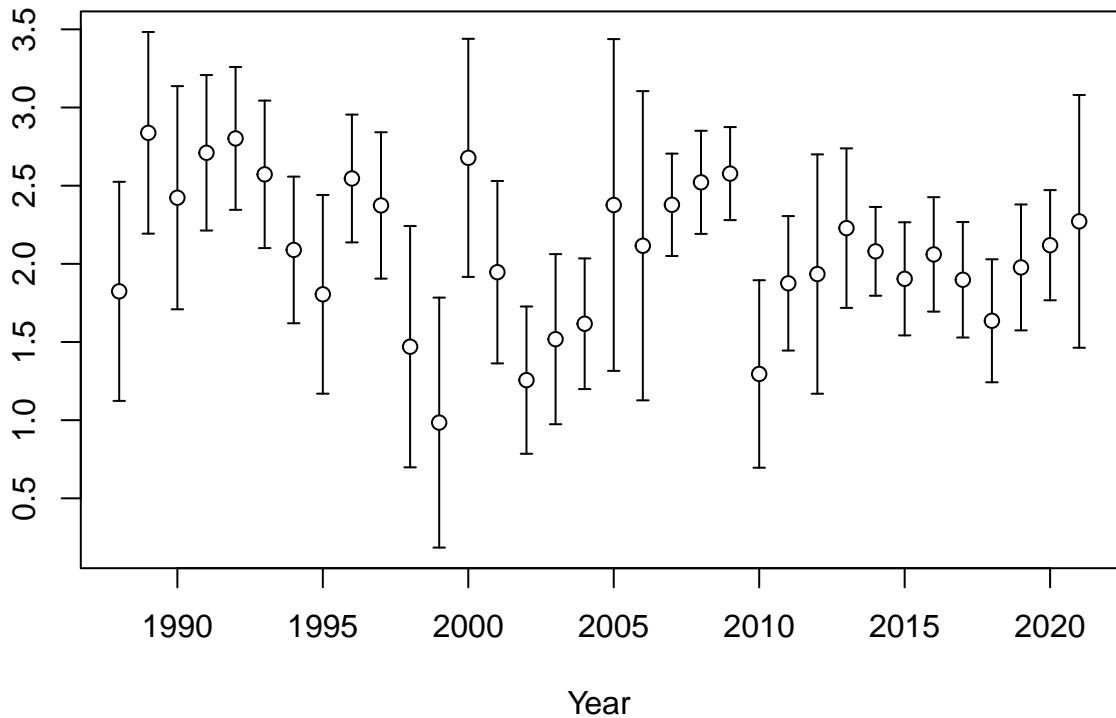


Index

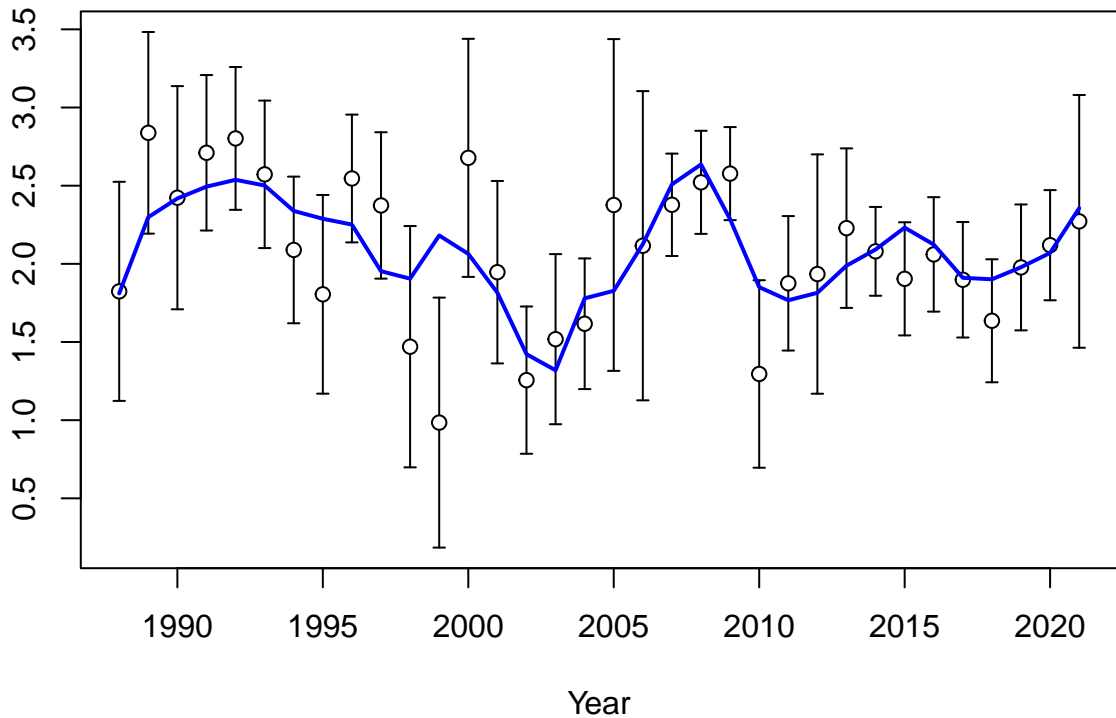


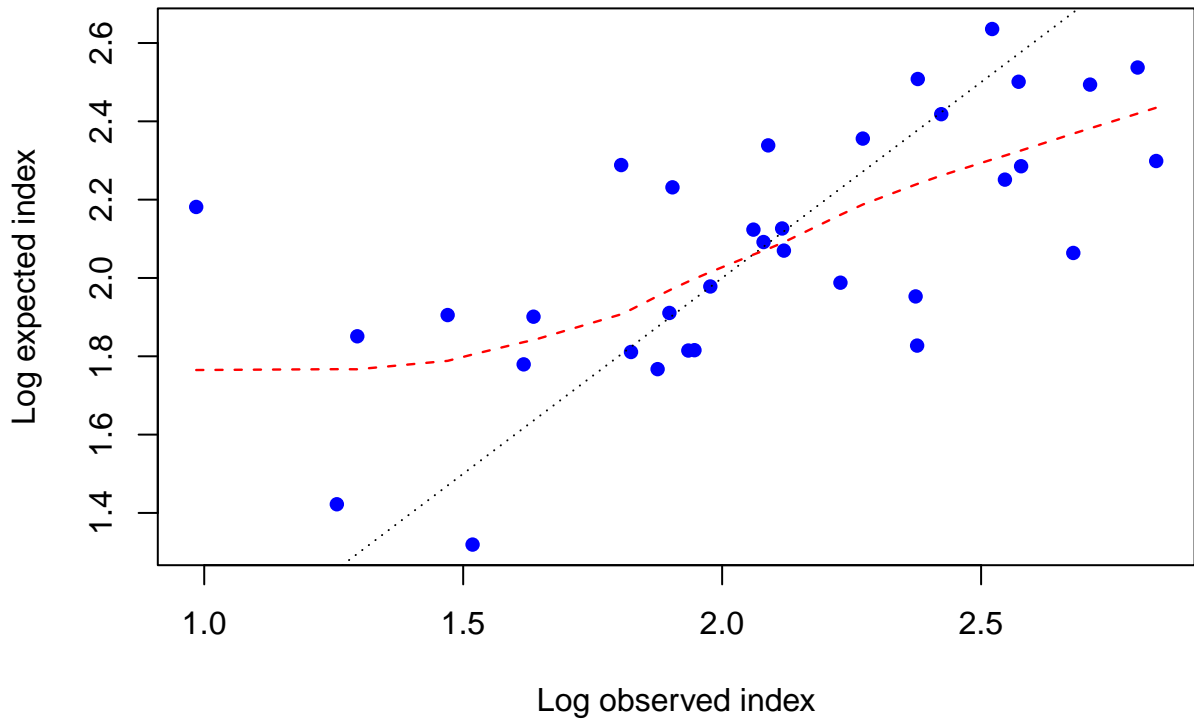


Log index



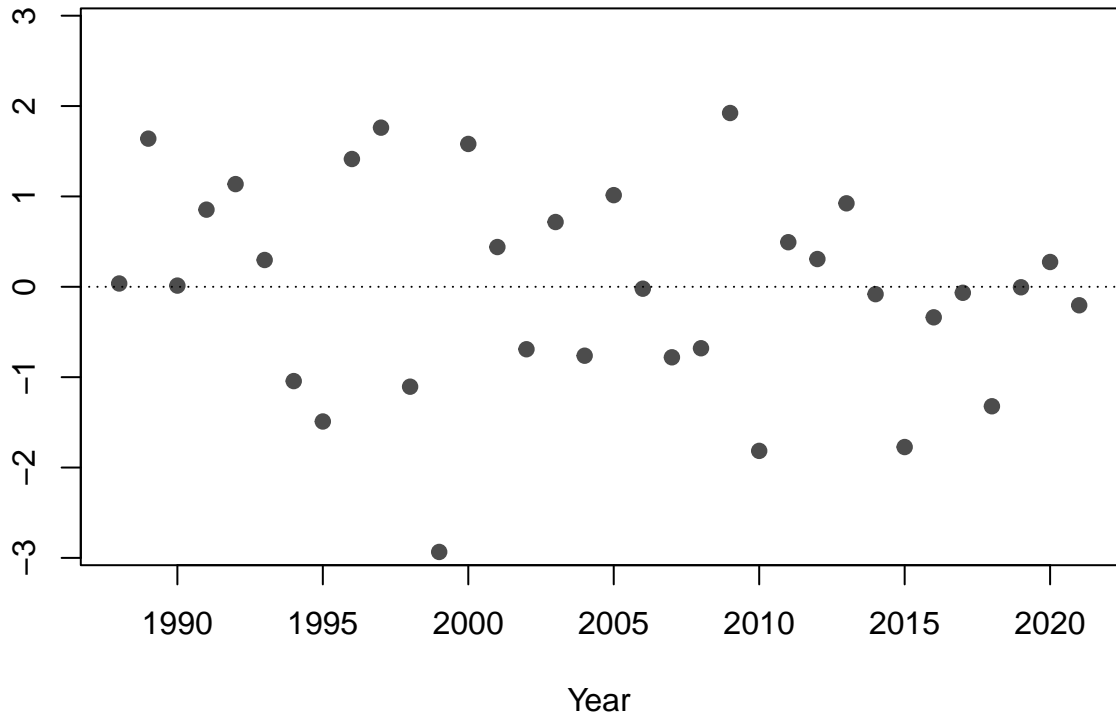
Log index

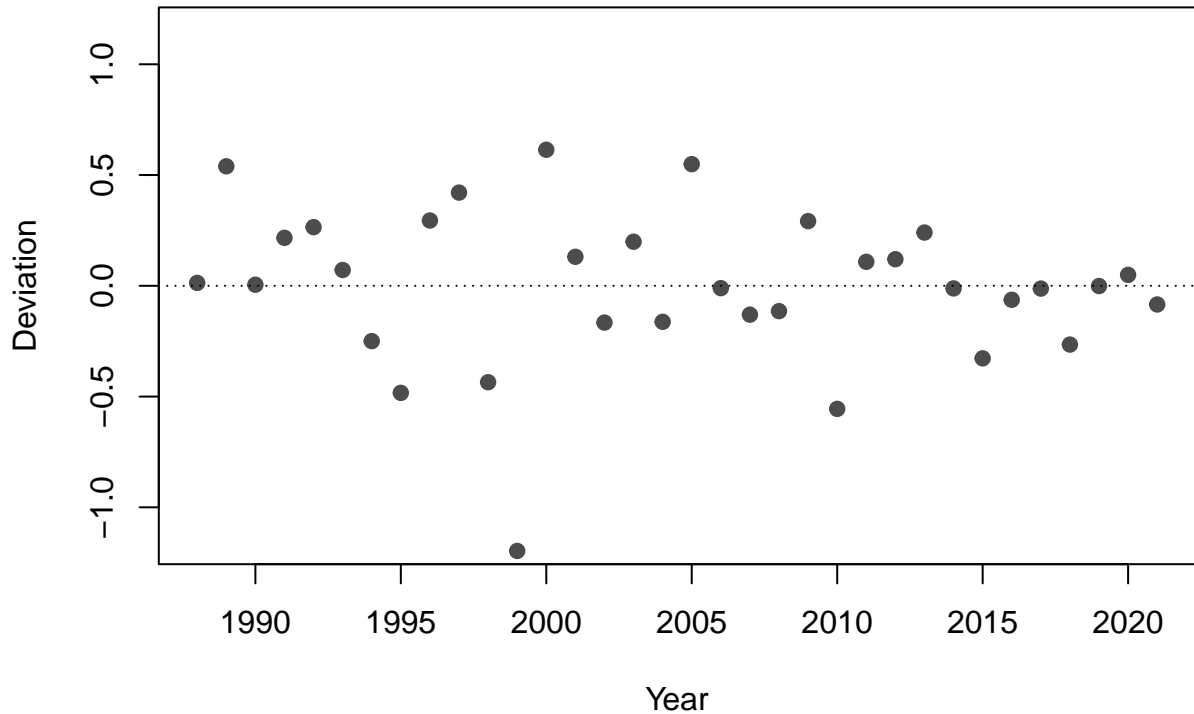




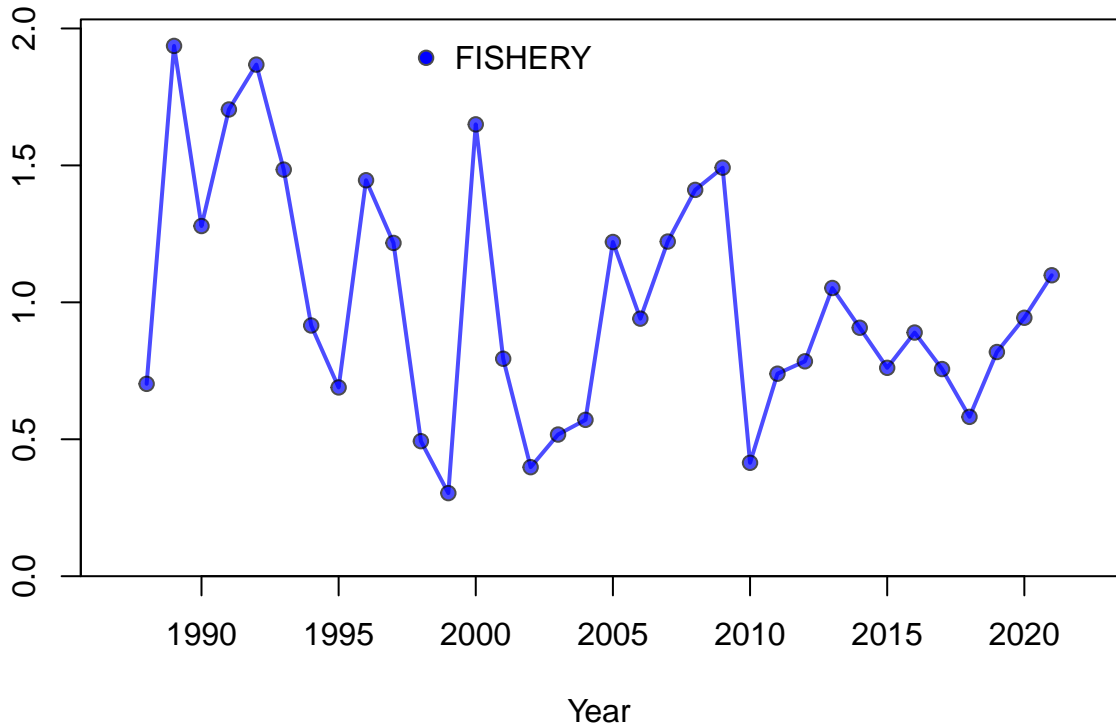


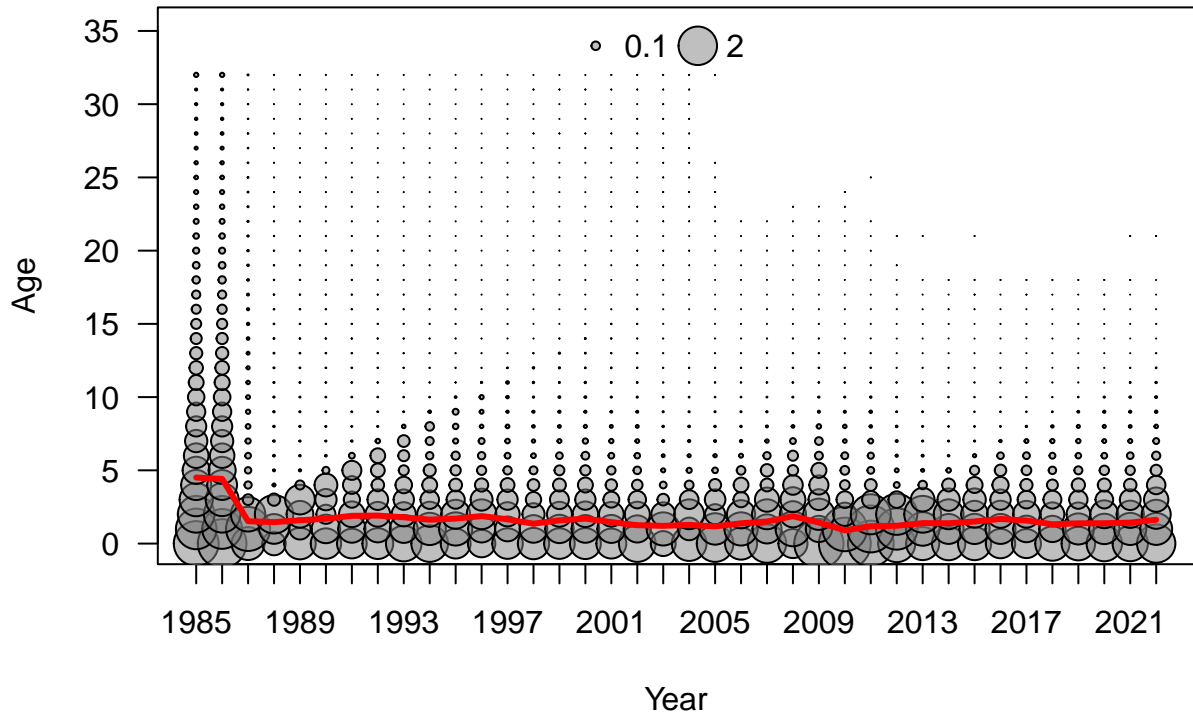
Residual

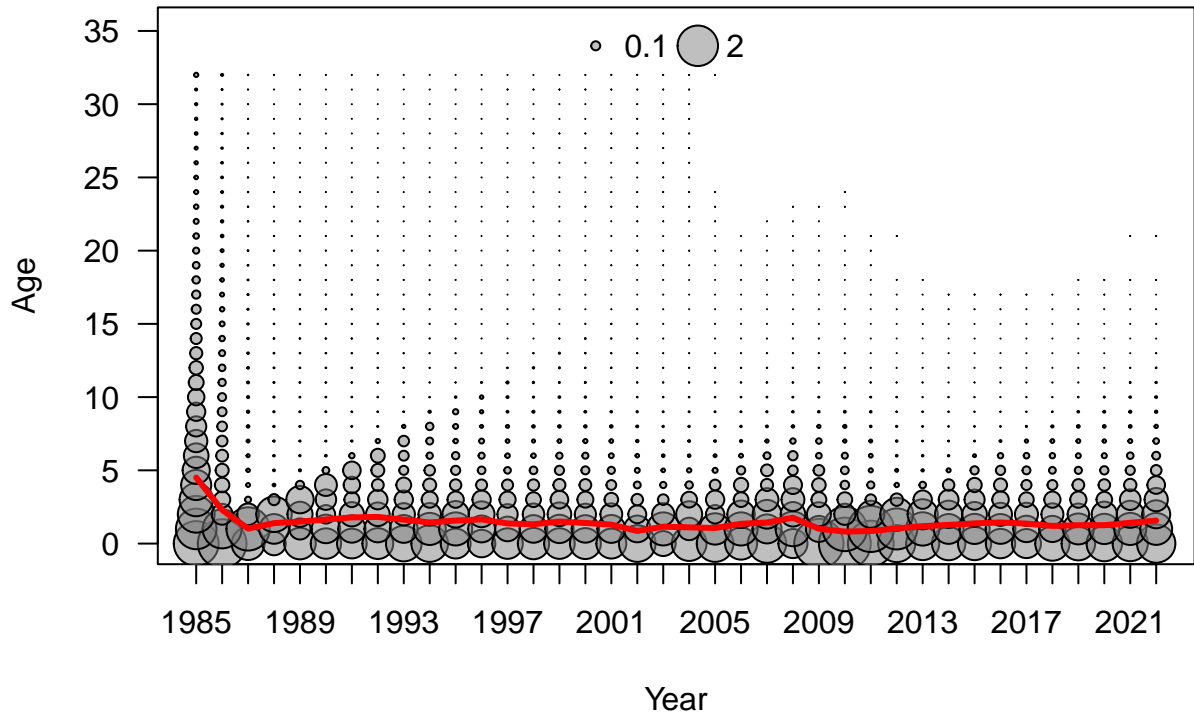


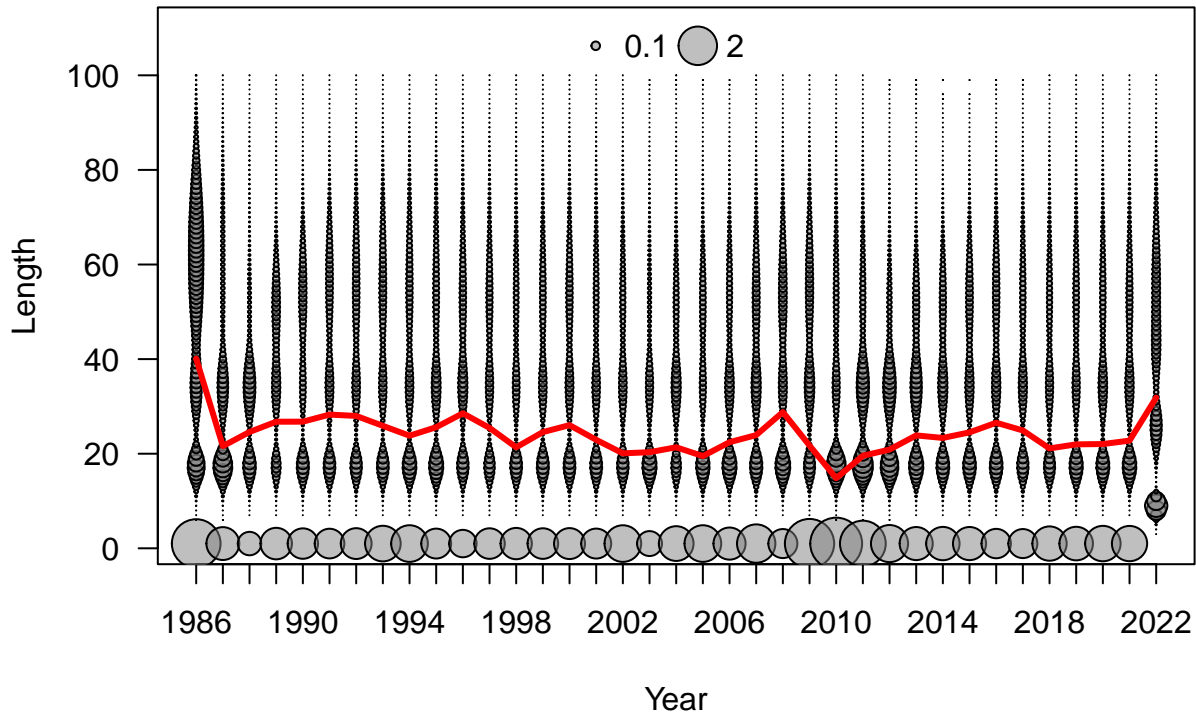


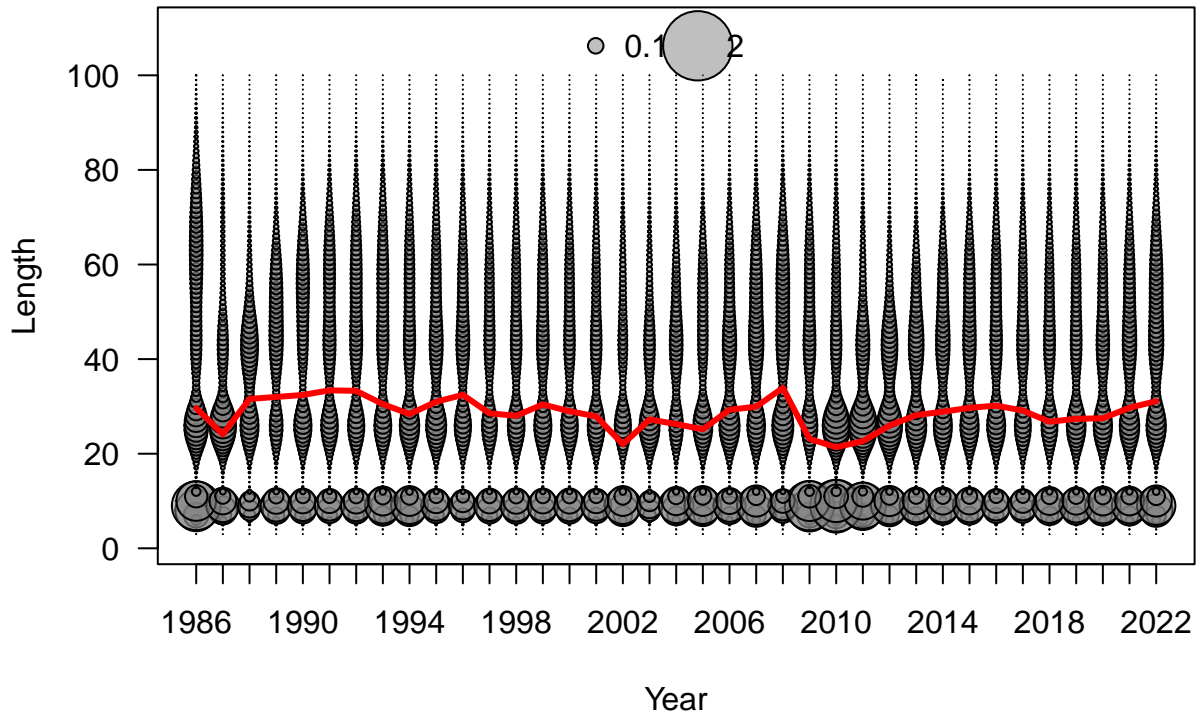
Standardized index

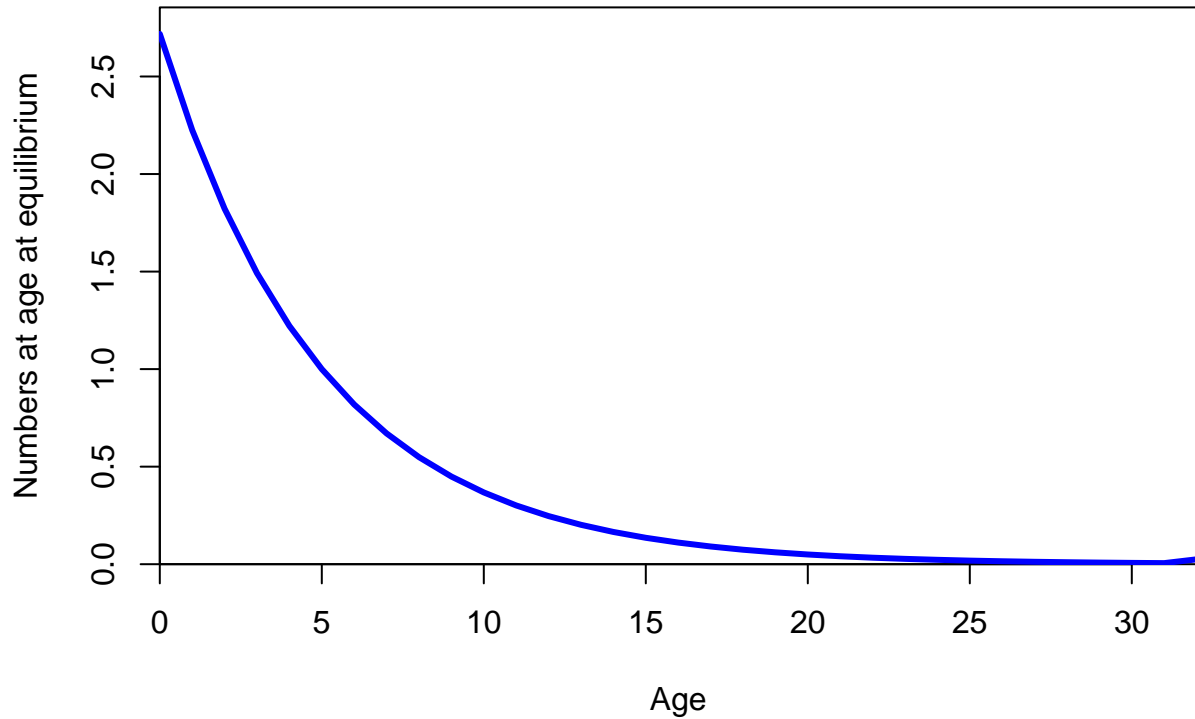




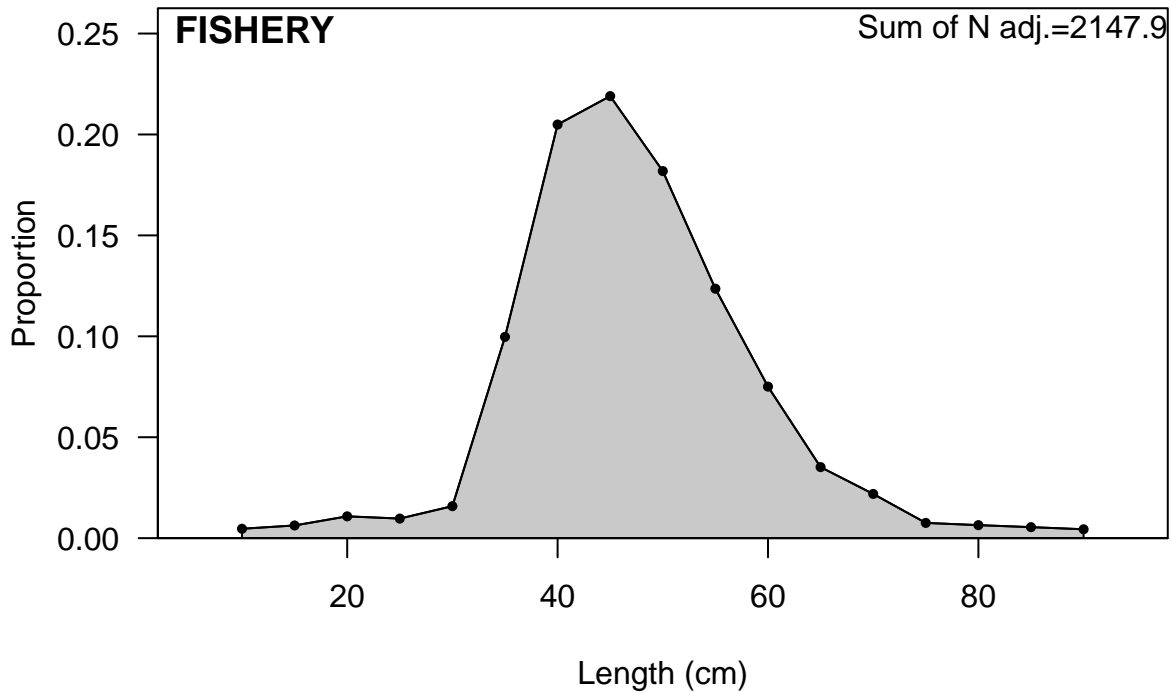






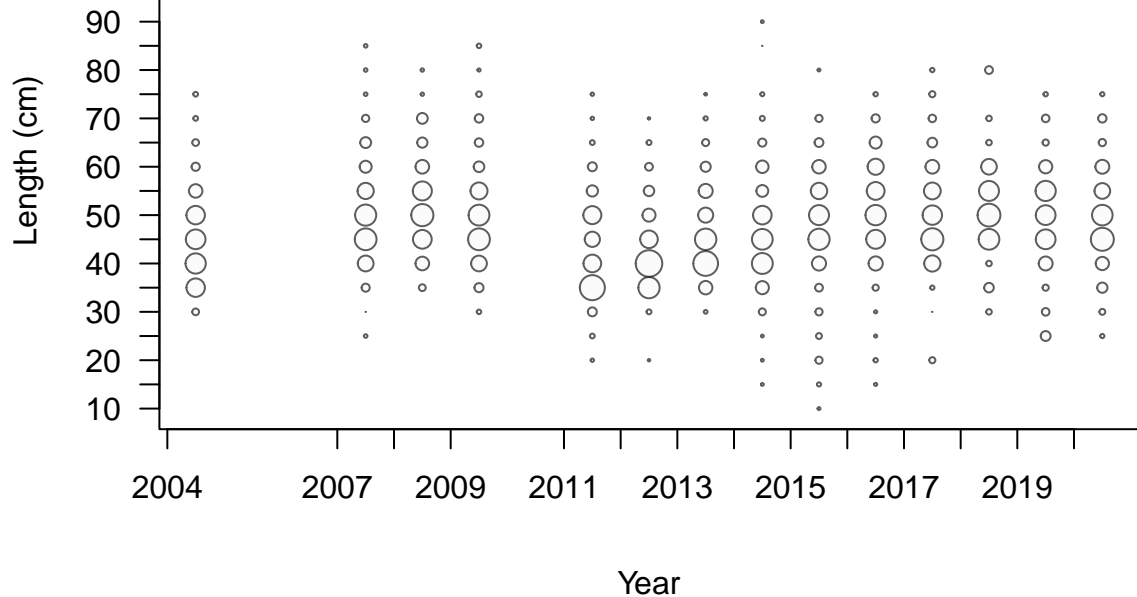




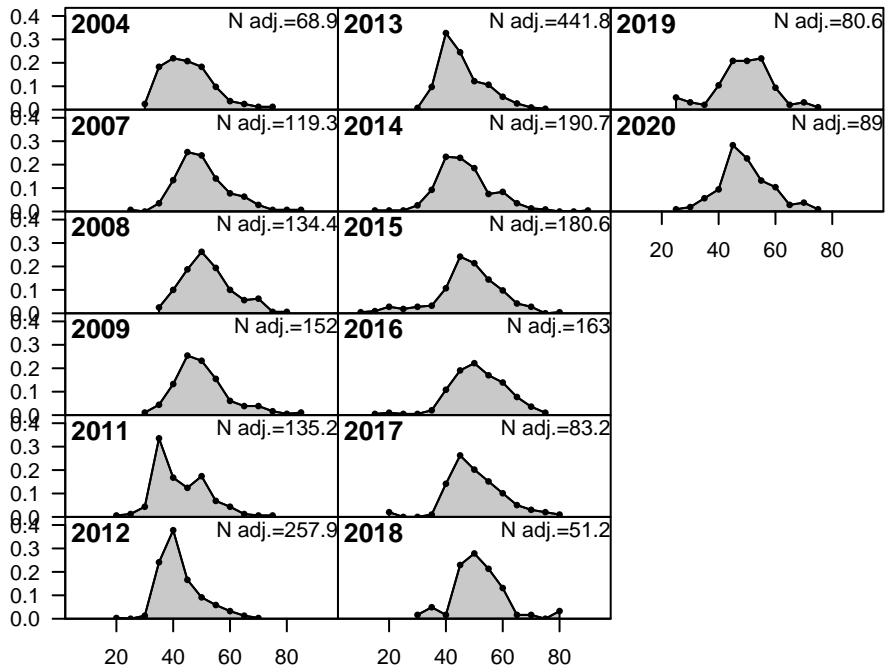


# FISHERY

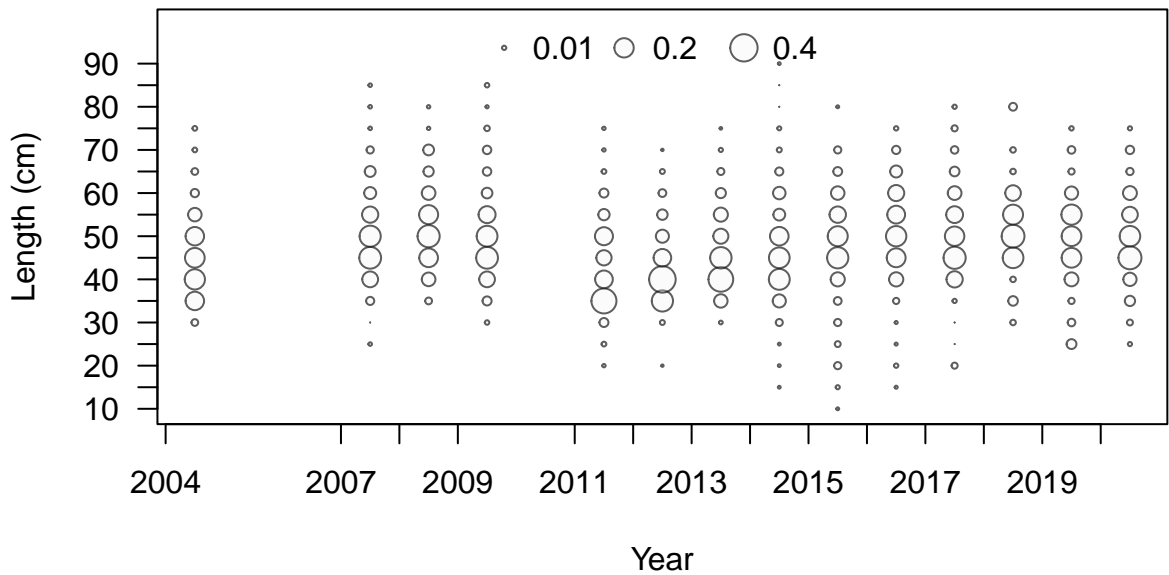
• 0.01 ○ 0.2 ○ 0.4



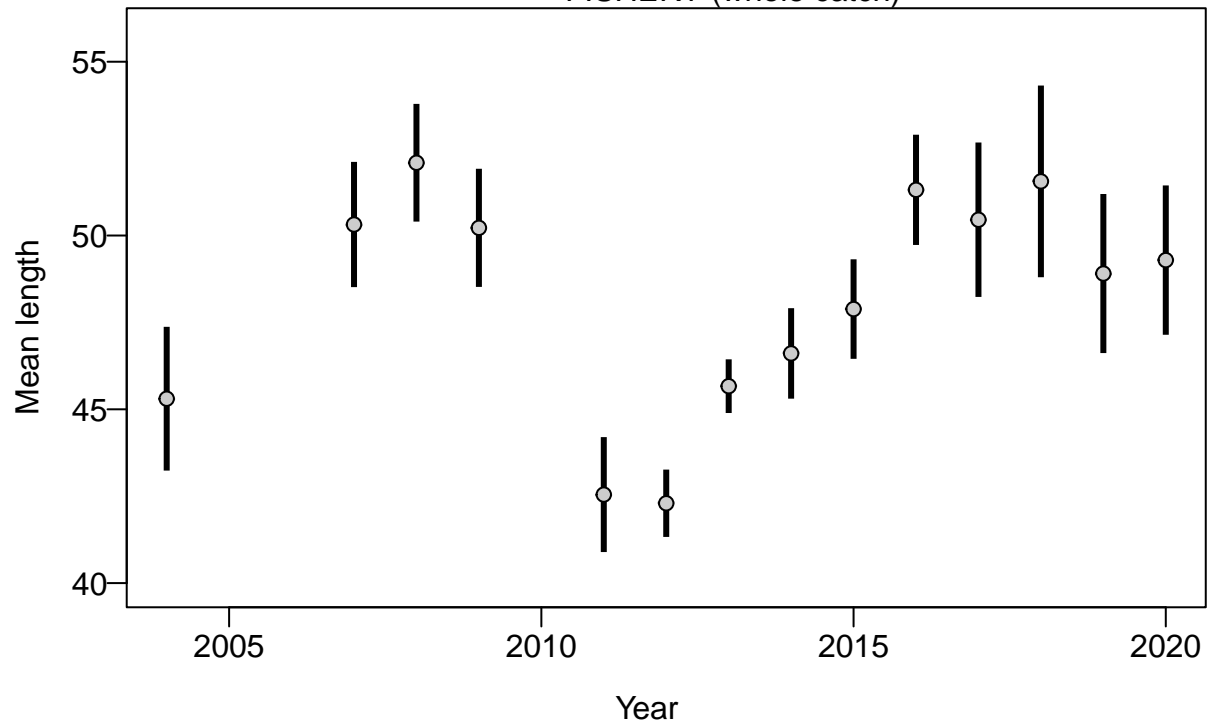
Proportion

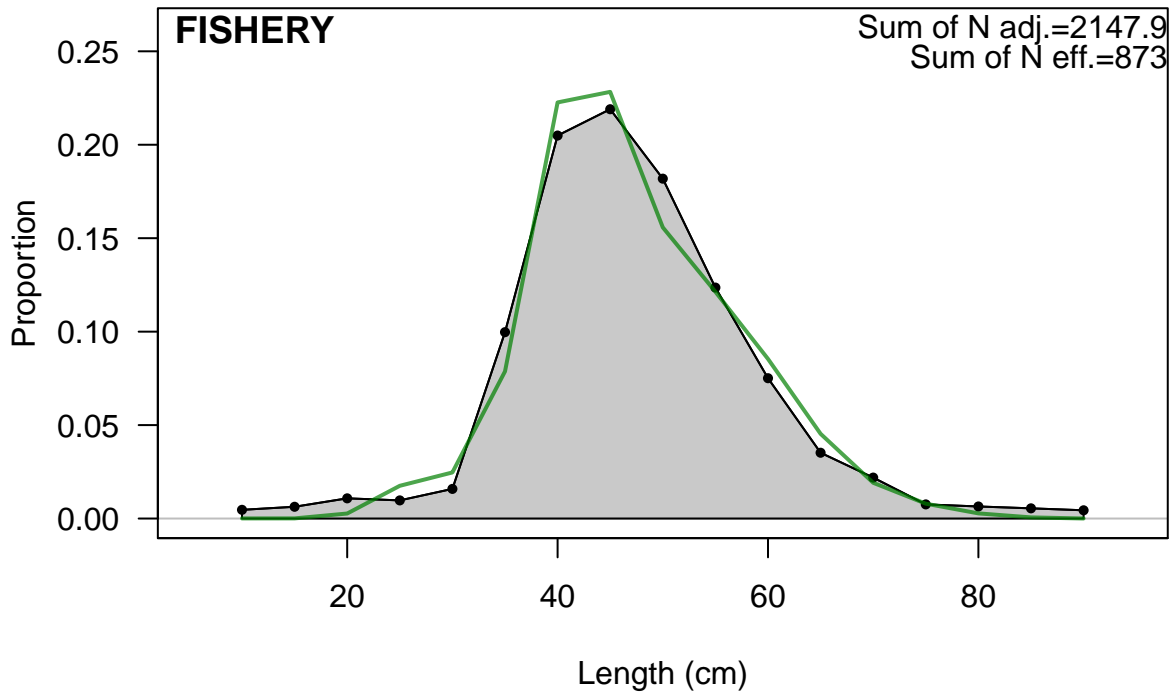


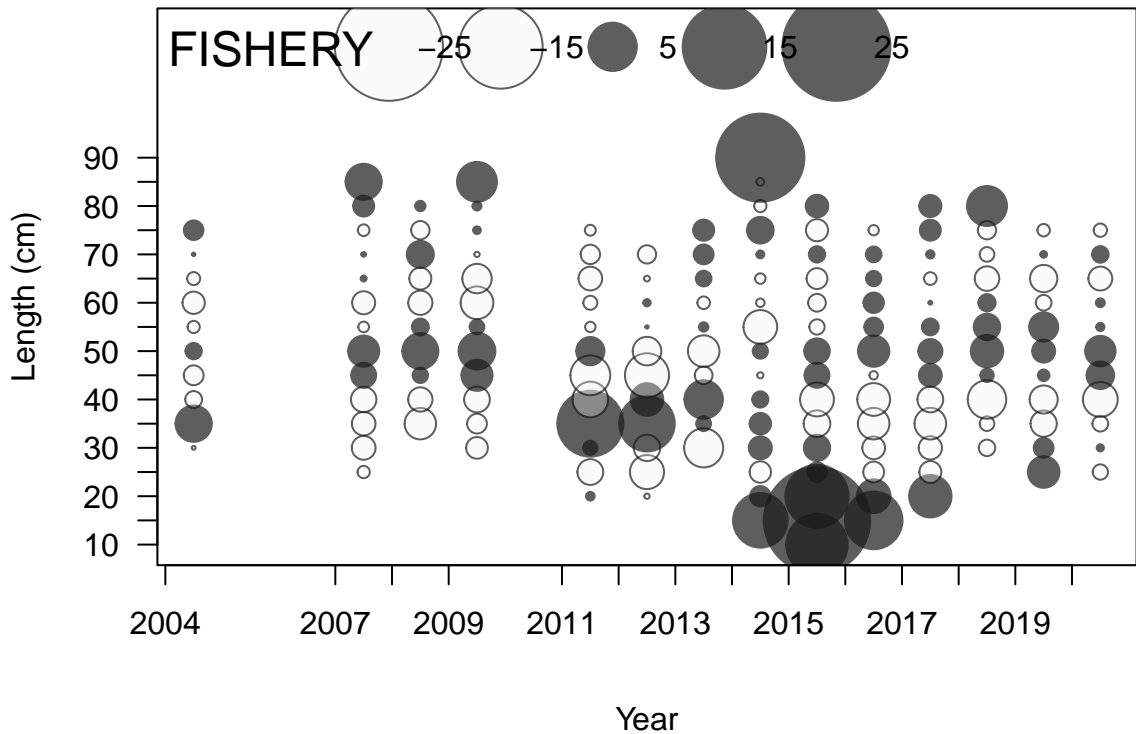
Length (cm)



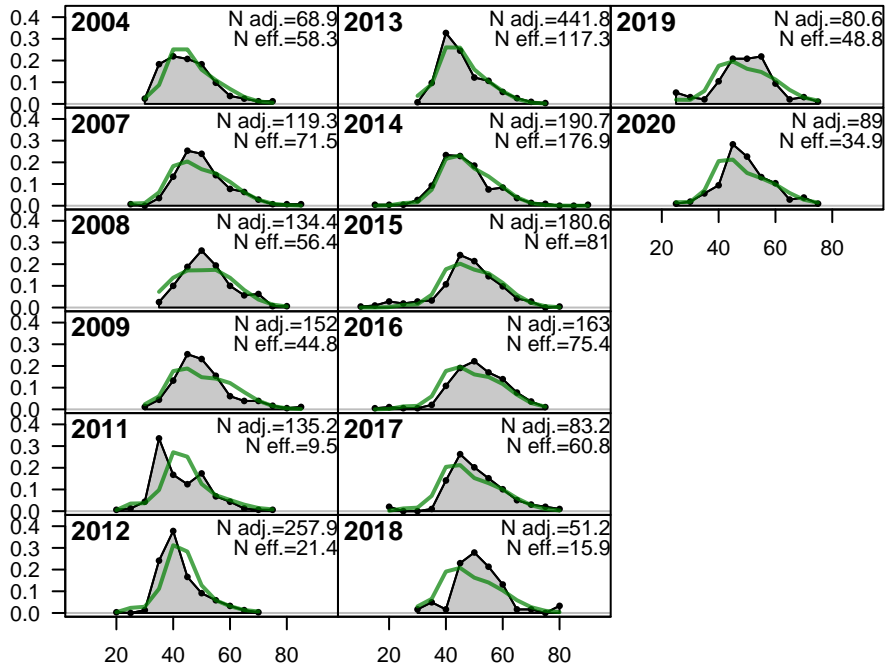
# FISHERY (whole catch)





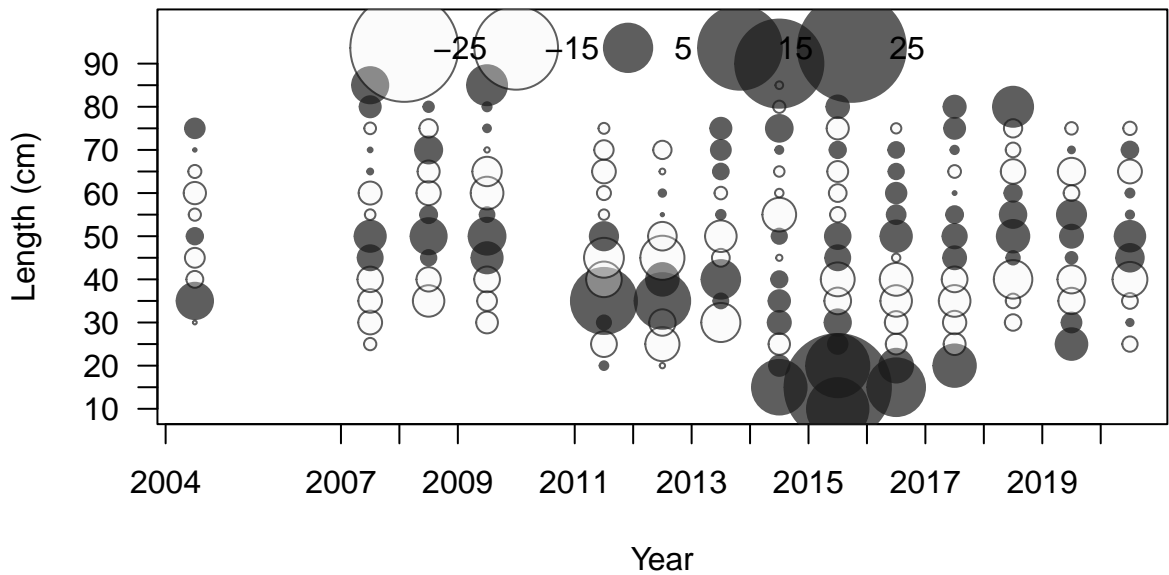


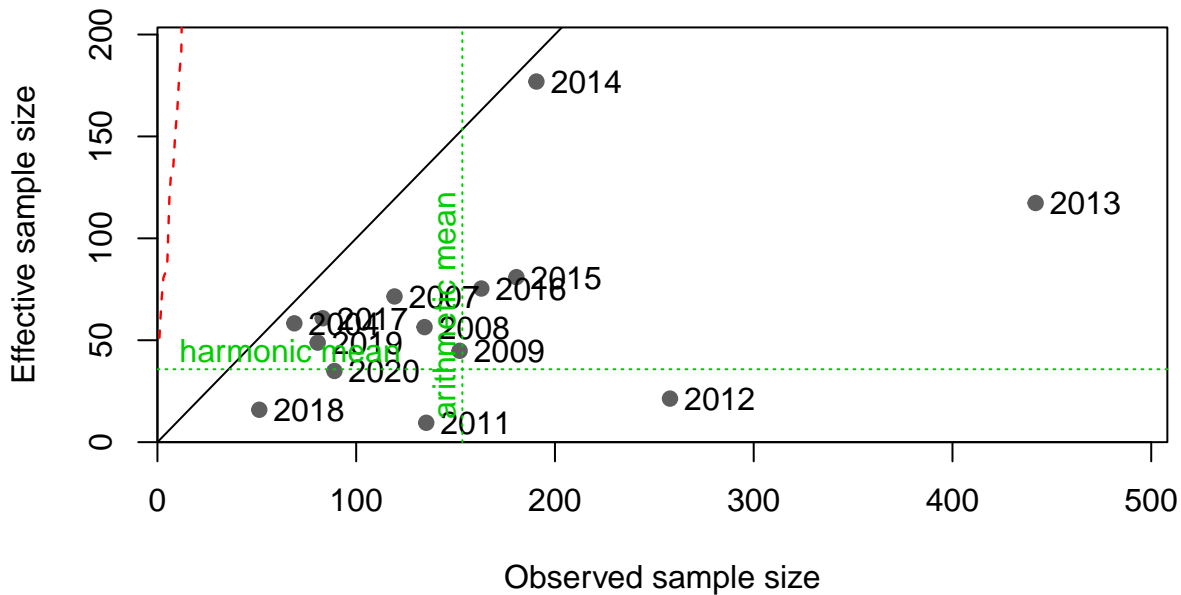
Proportion



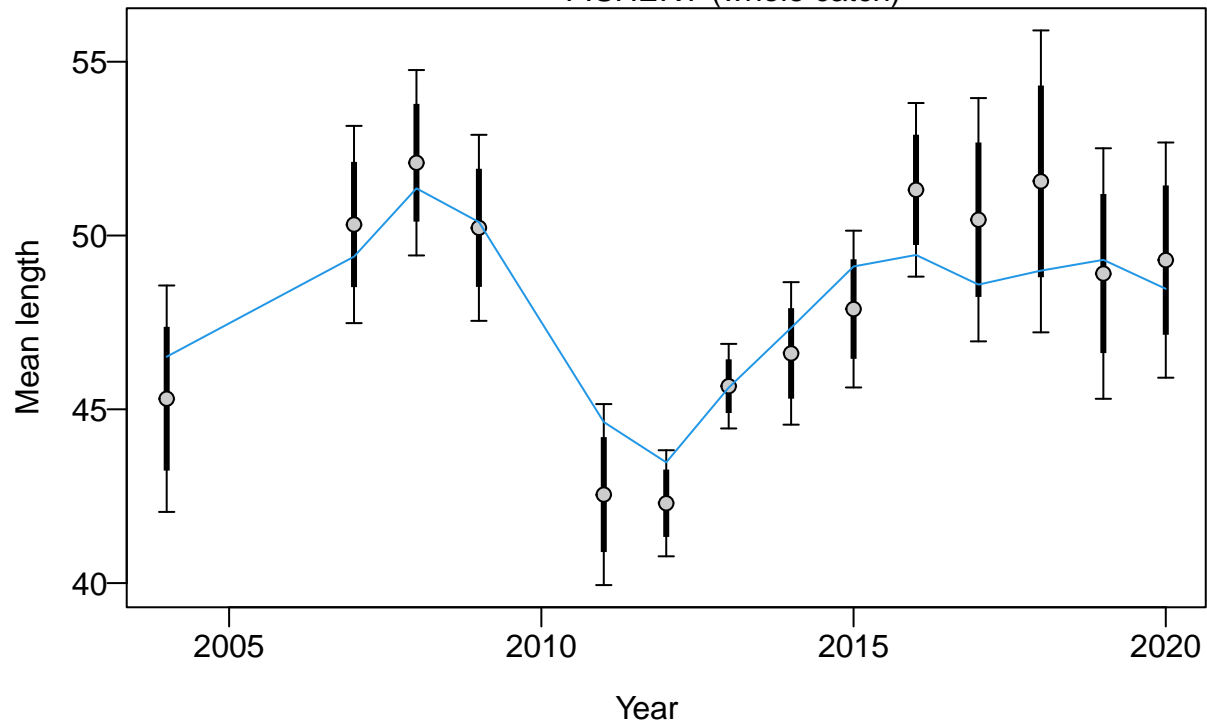
Length (cm)

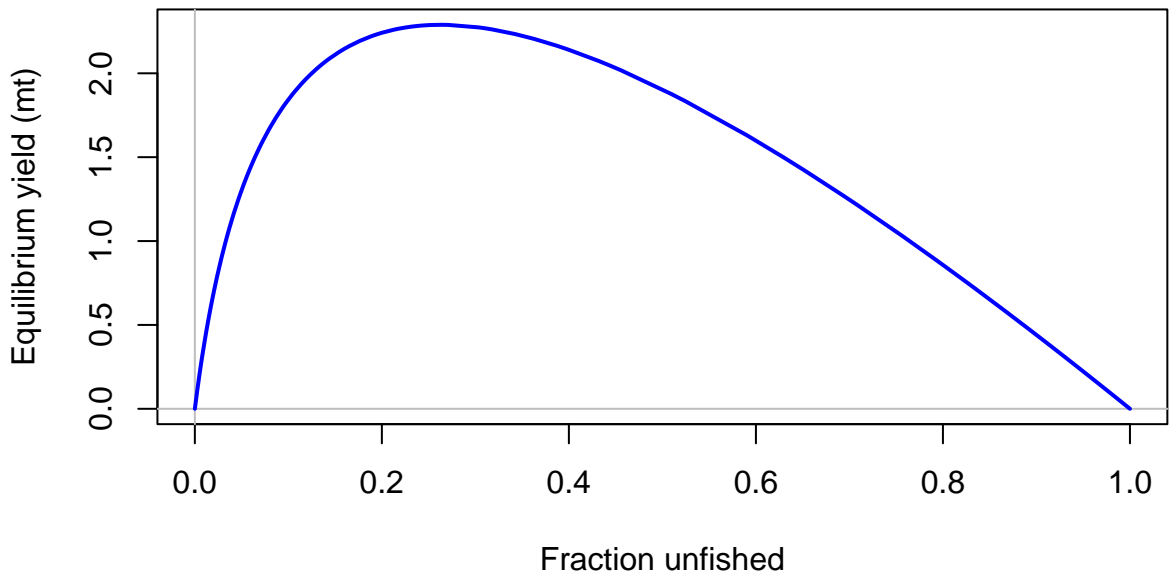


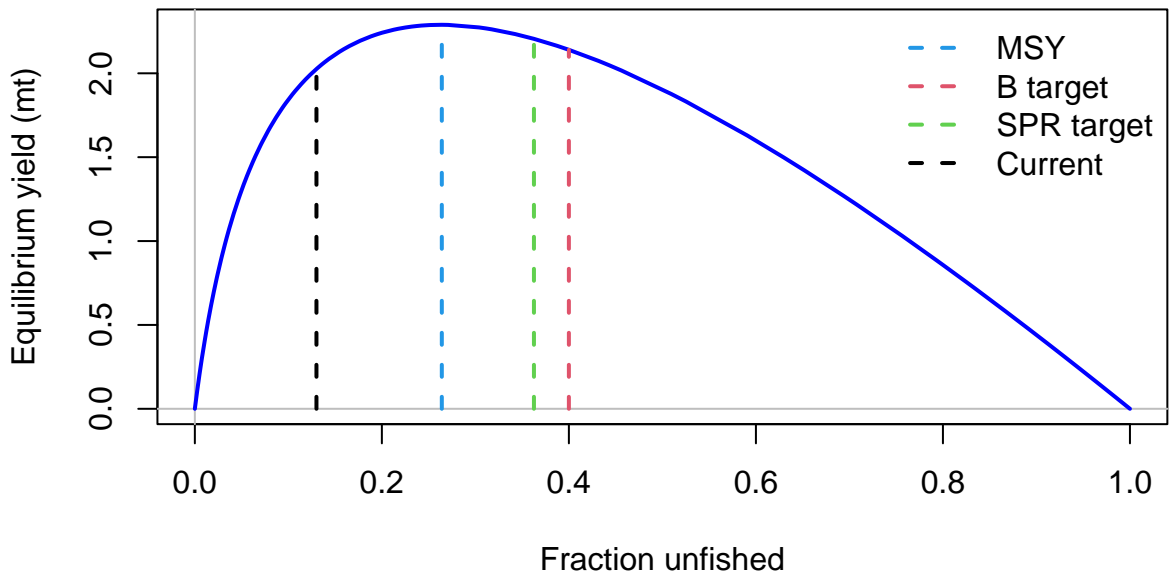


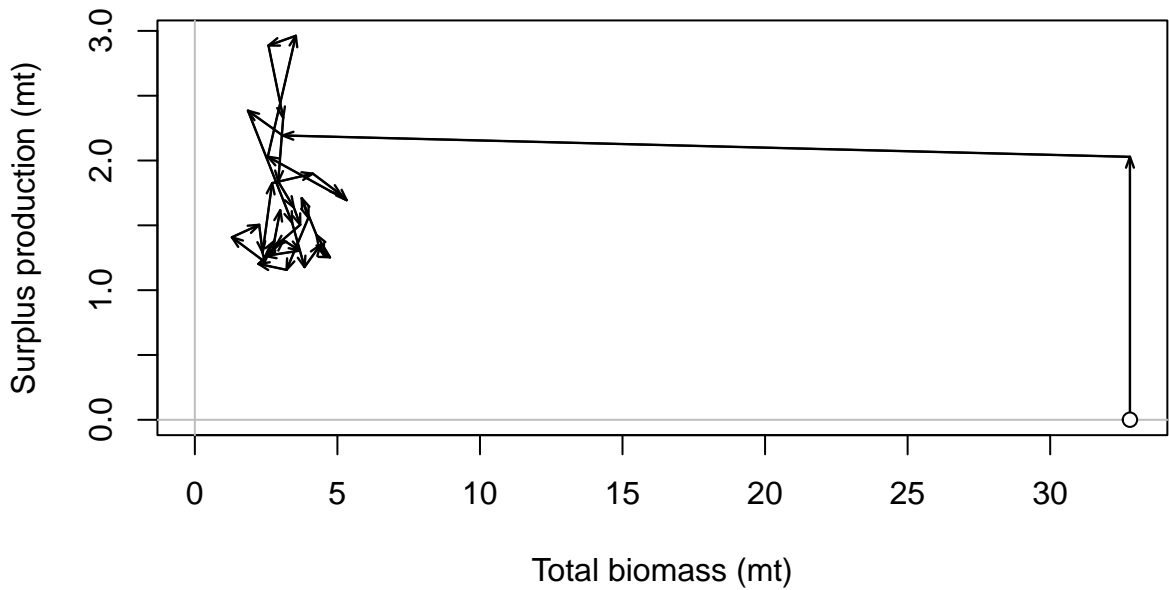


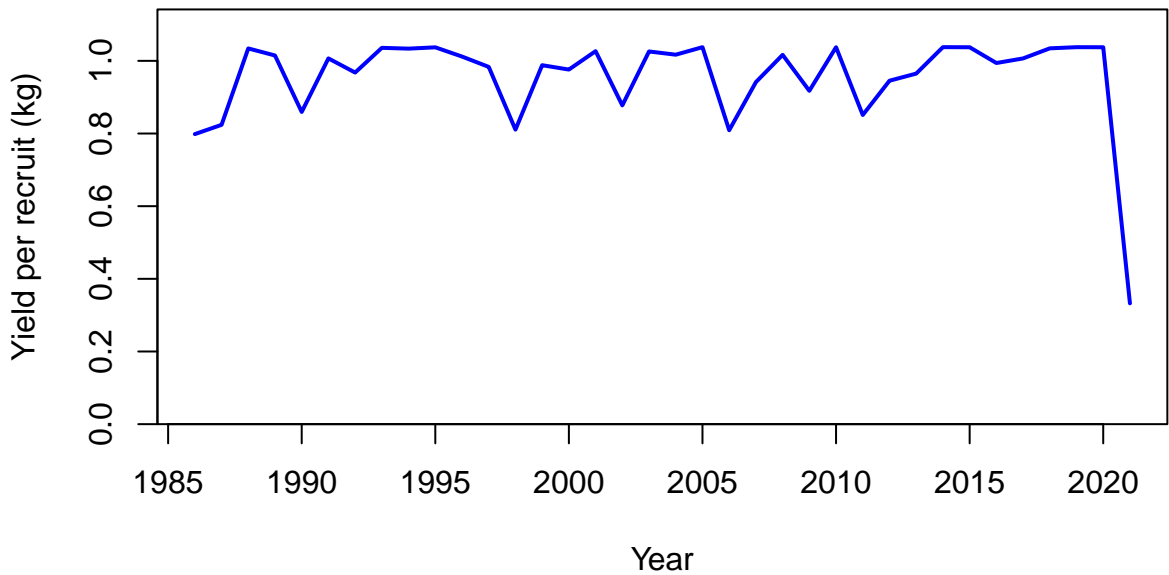
## FISHERY (whole catch)

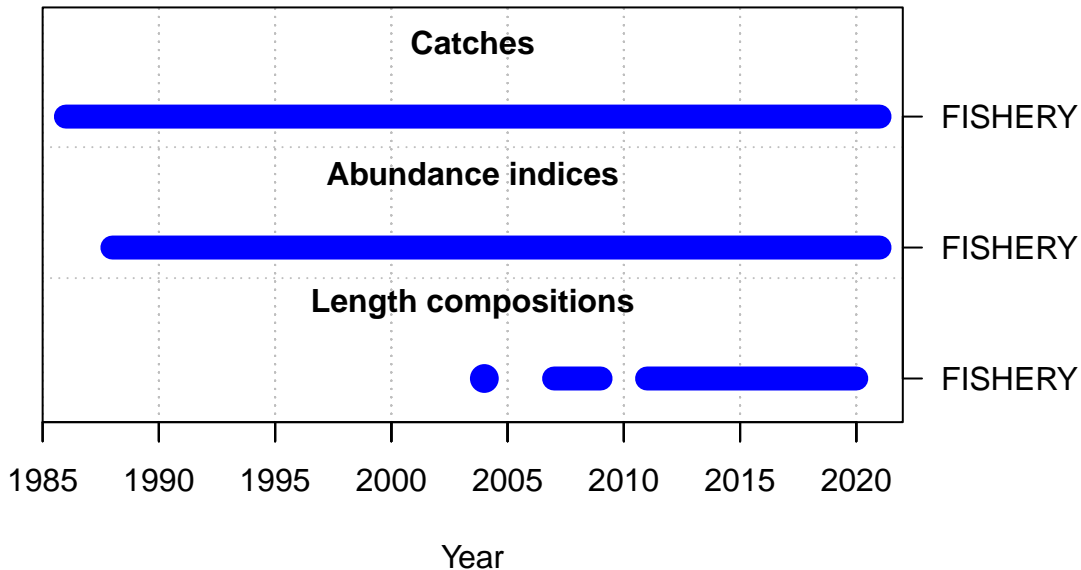




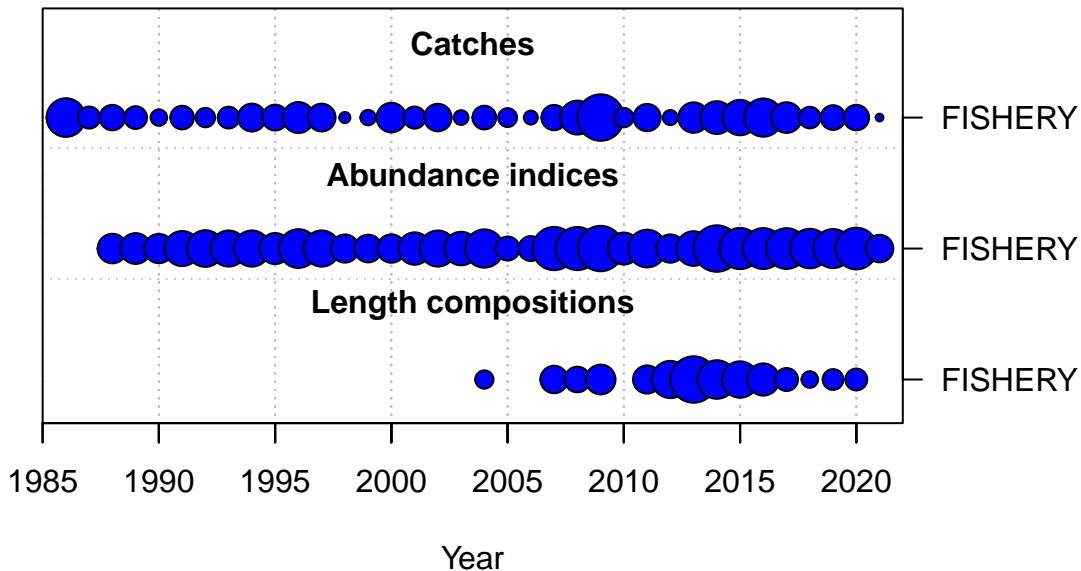




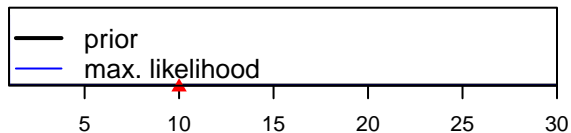




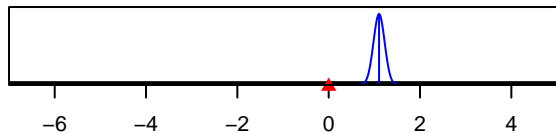




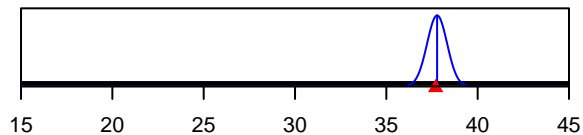
SR\_LN(R0)



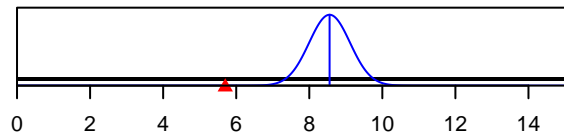
LnQ\_base\_FISHERY(1)



Size\_inflection\_FISHERY(1)



Size\_95%width\_FISHERY(1)



Parameter value

Density