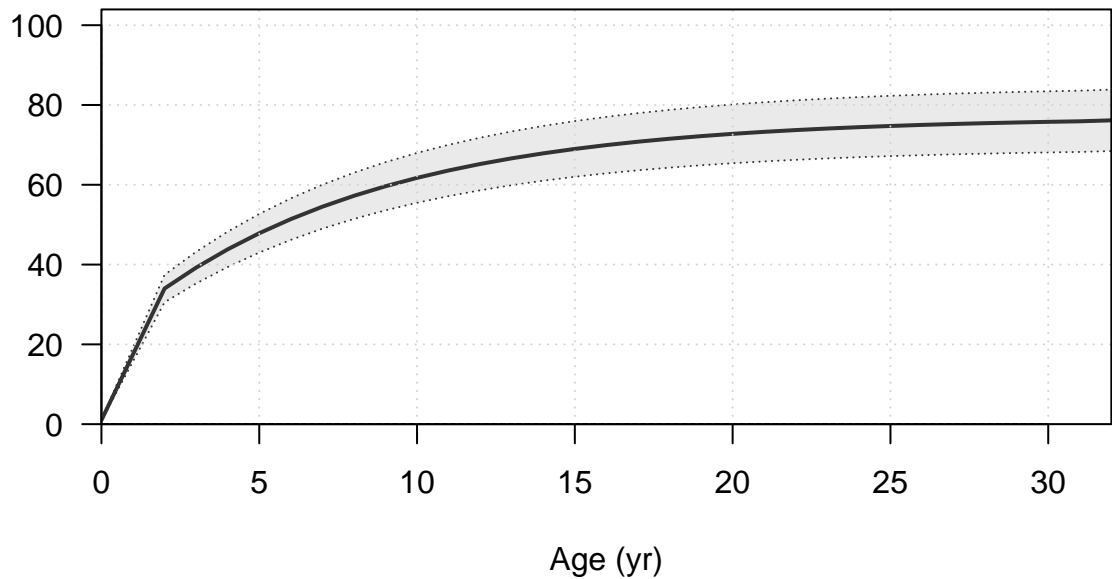
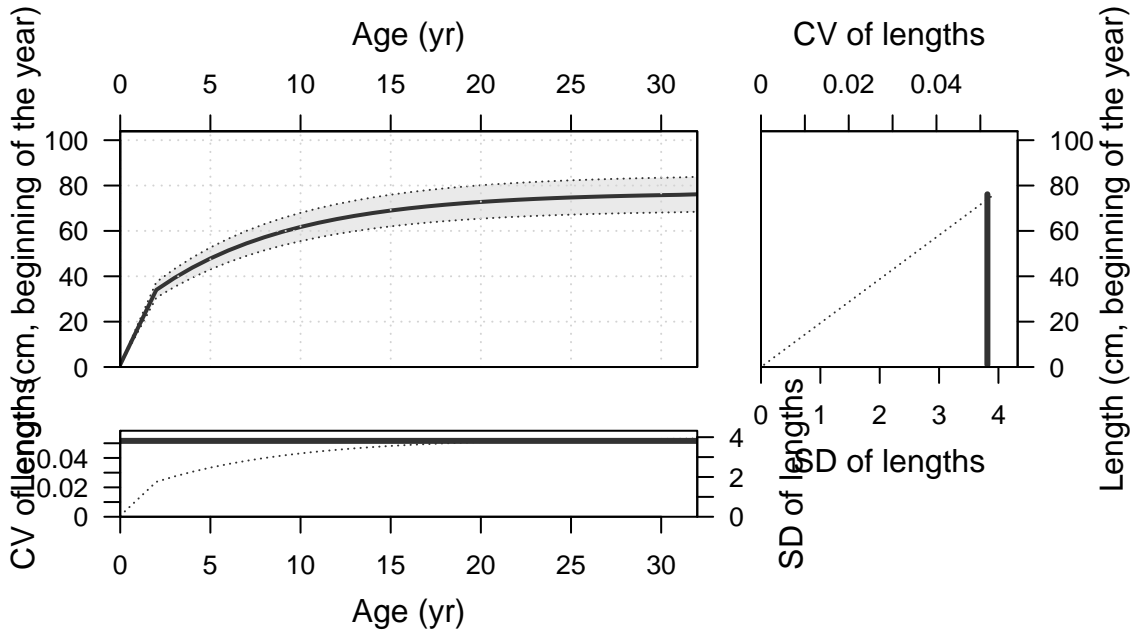
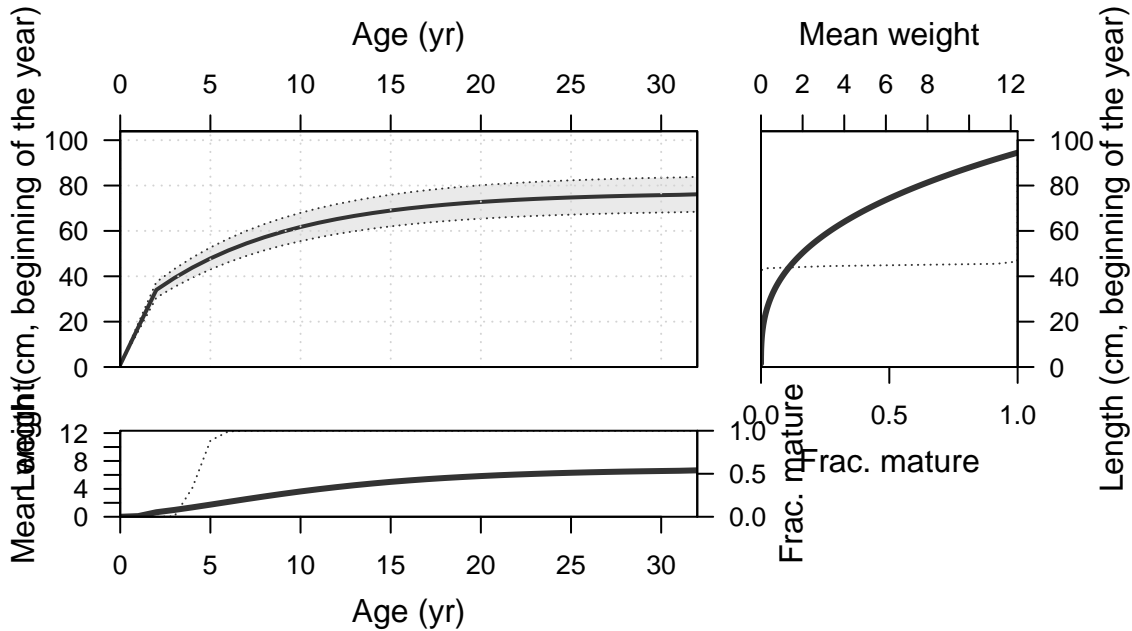


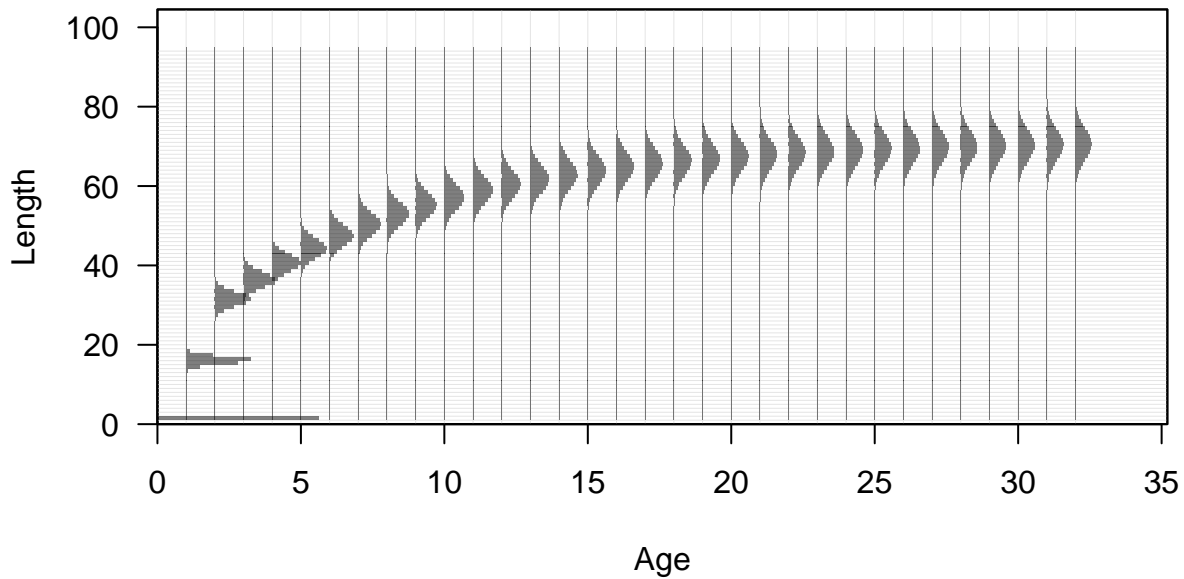
Plots created using the 'r4ss' package in R  
Stock Synthesis version: 3.30.19.0  
StartTime: Sun Feb 19 14:59:14 2023  
Data\_File: data.ss  
Control\_File: control.ss

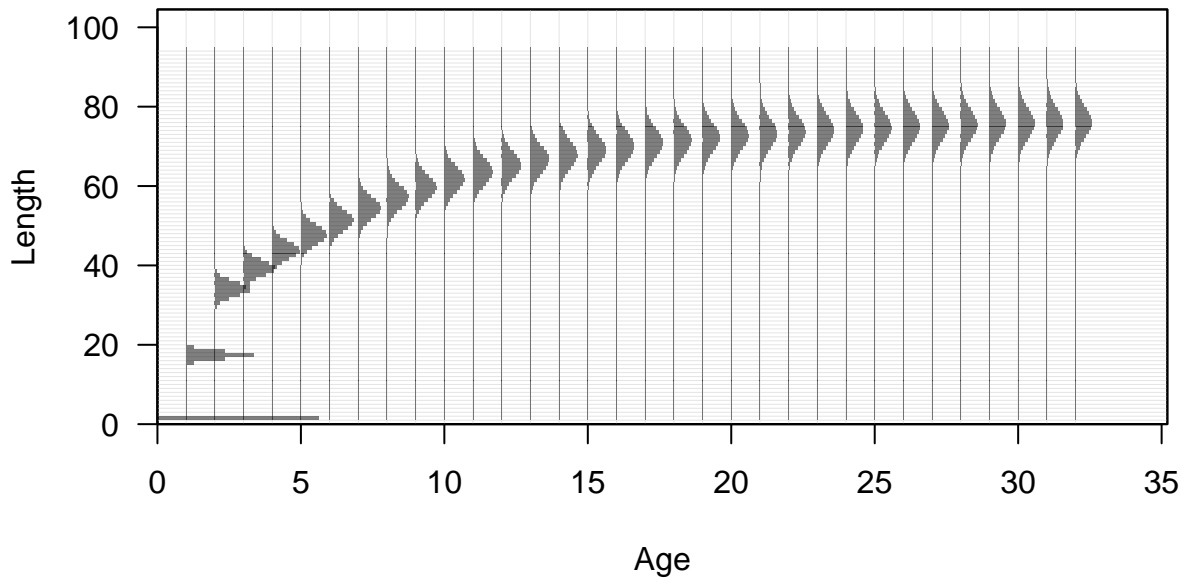
Length (cm, beginning of the year)

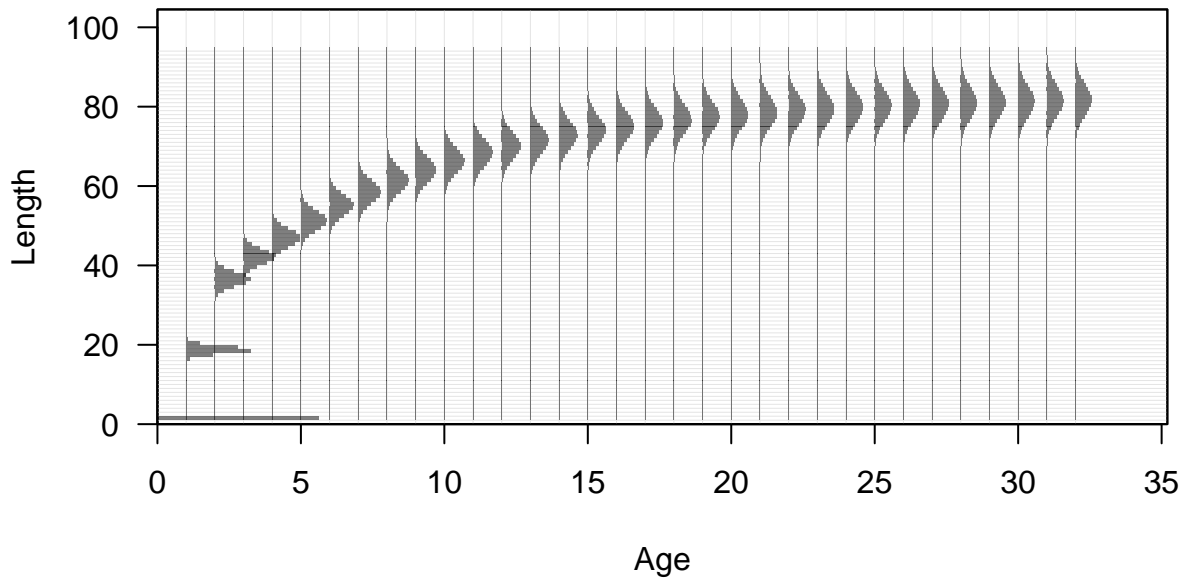


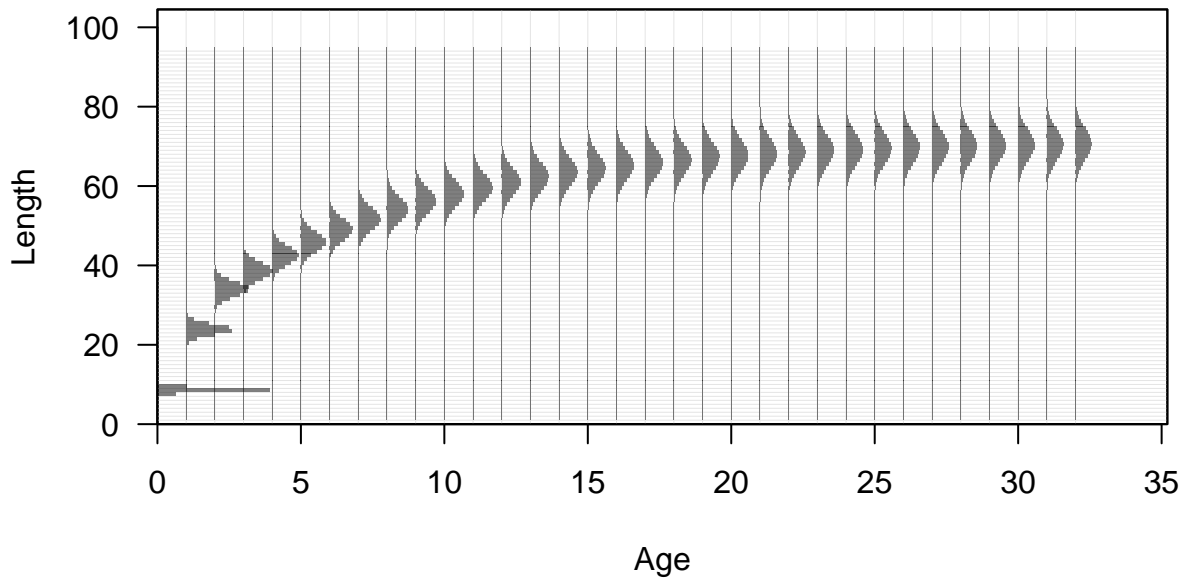




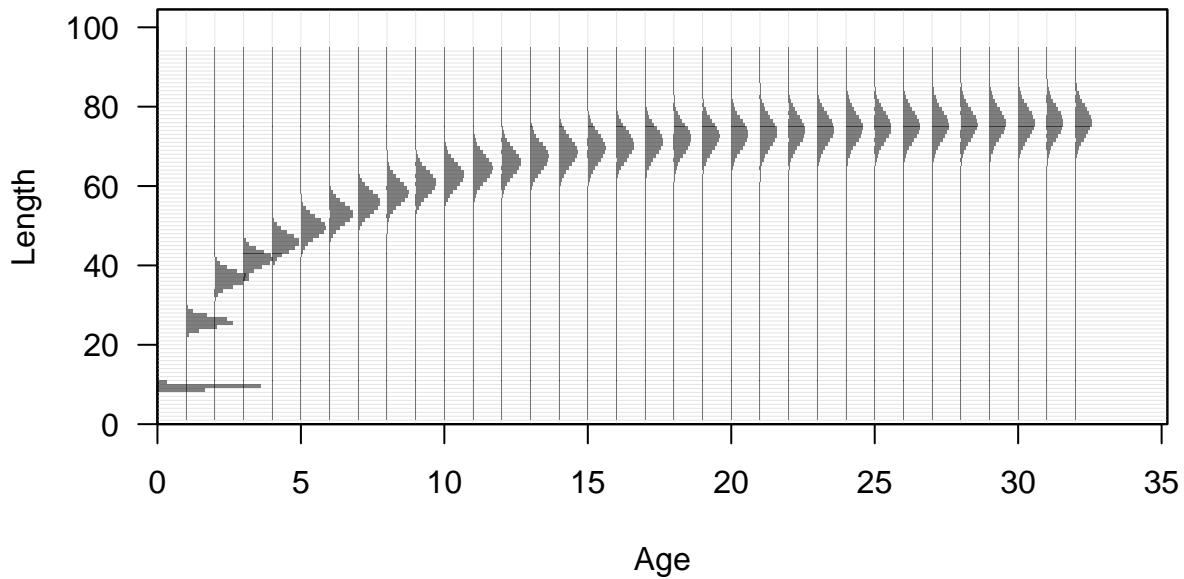


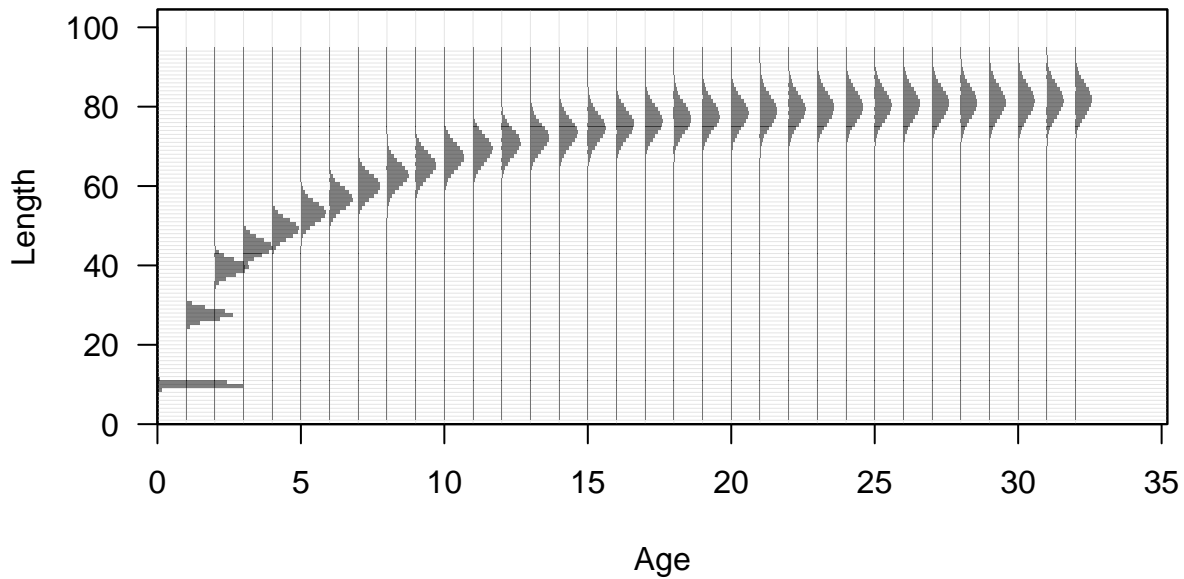


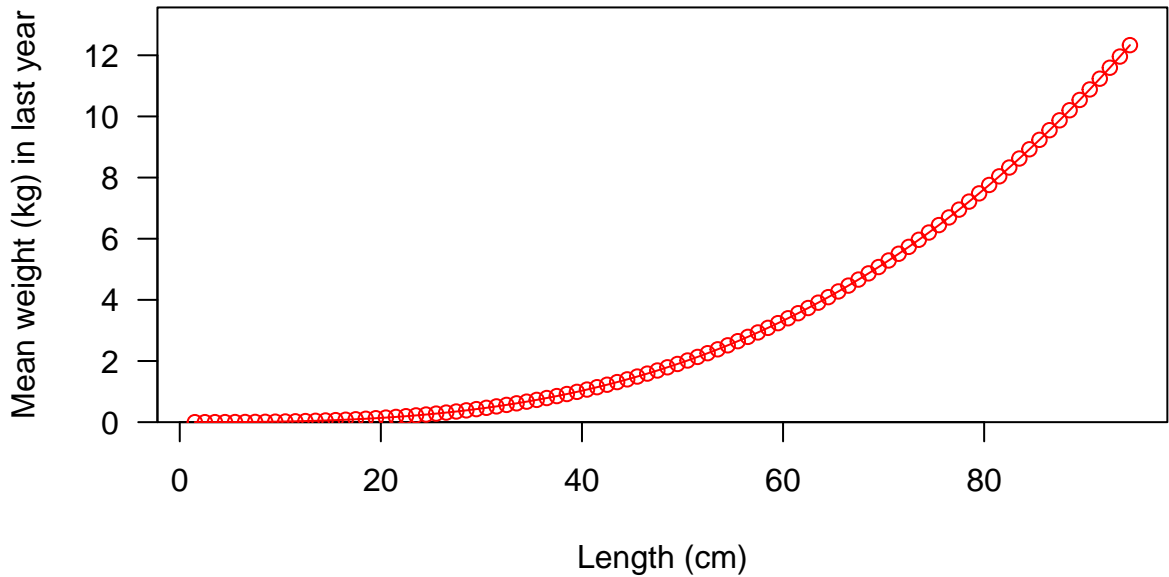


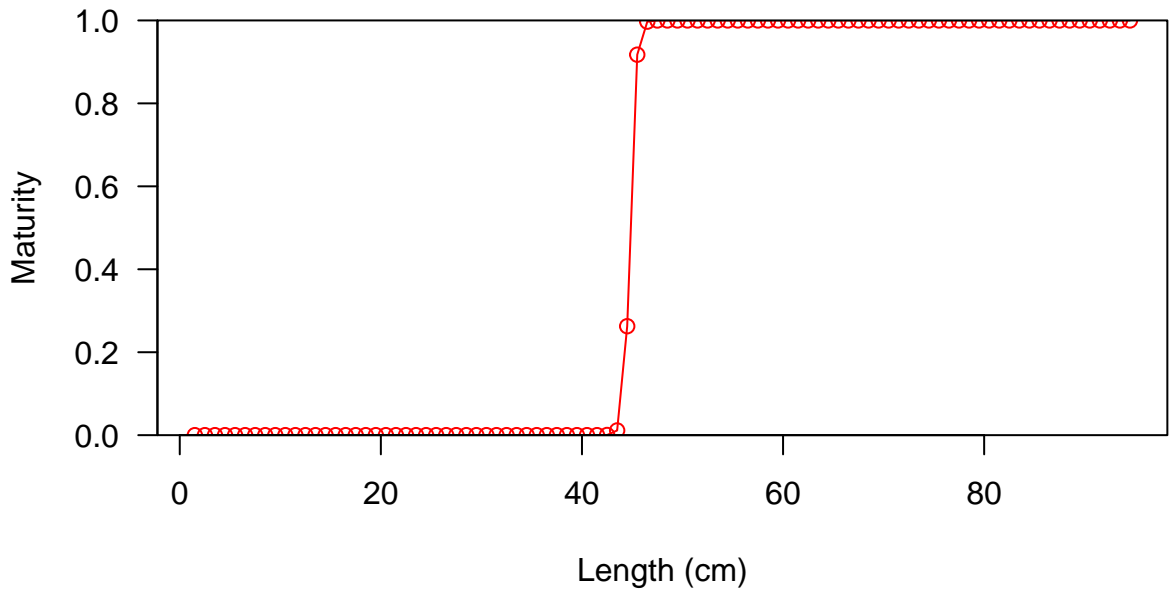


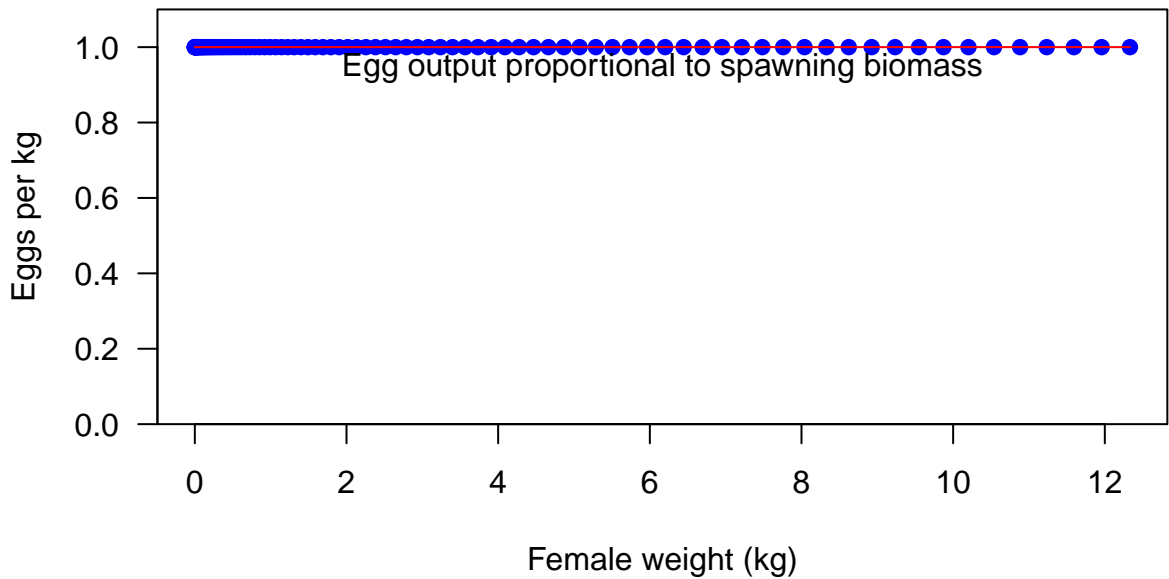




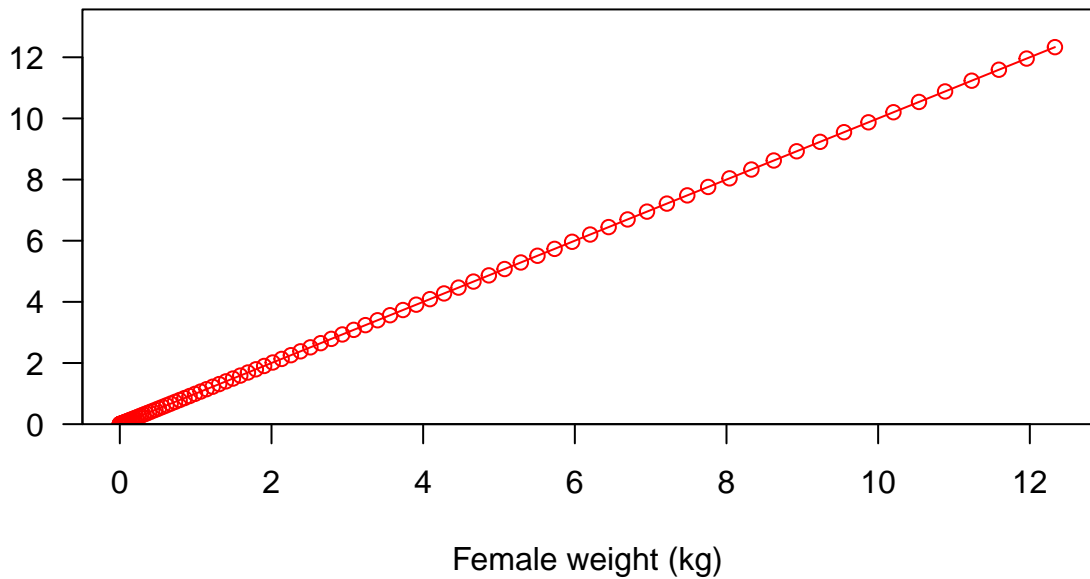




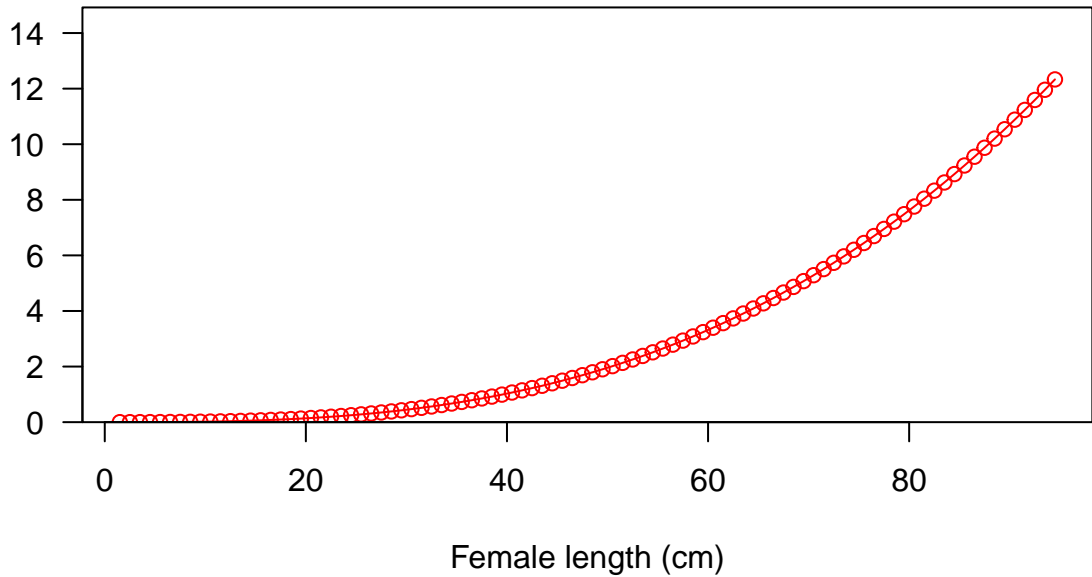




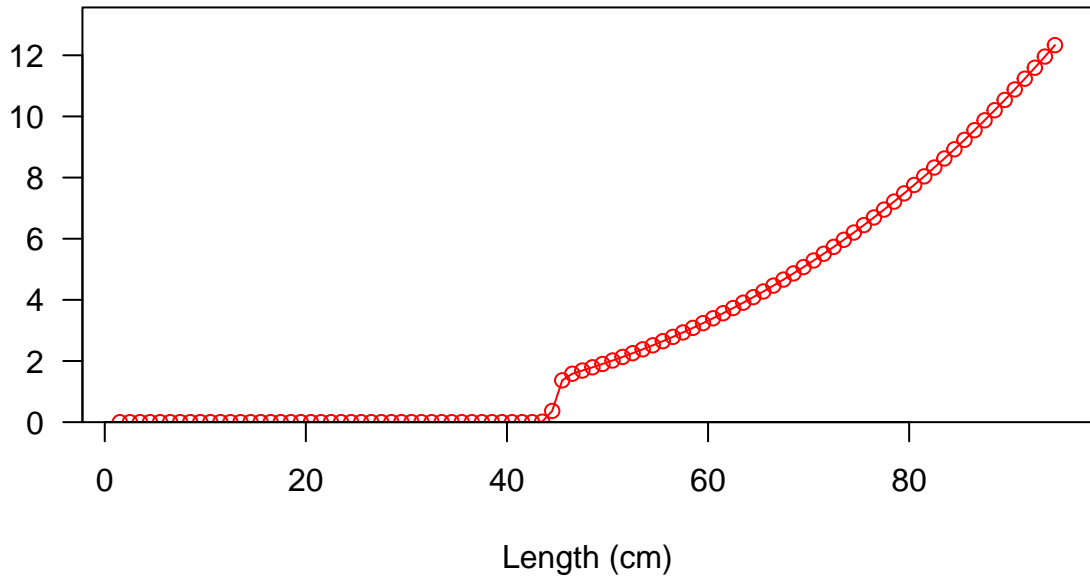
Fecundity



Fecundity

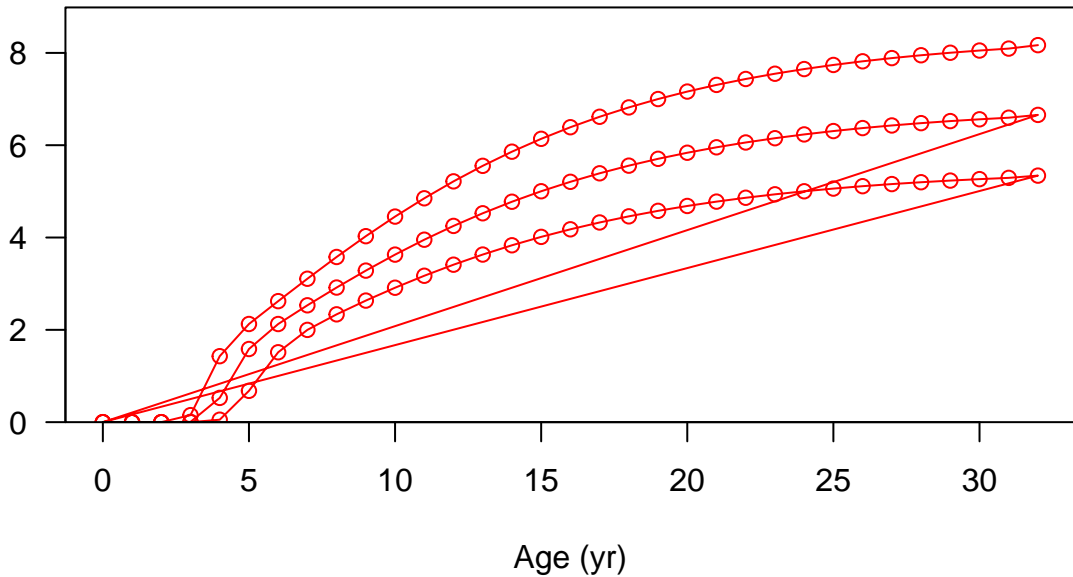


Spawning output

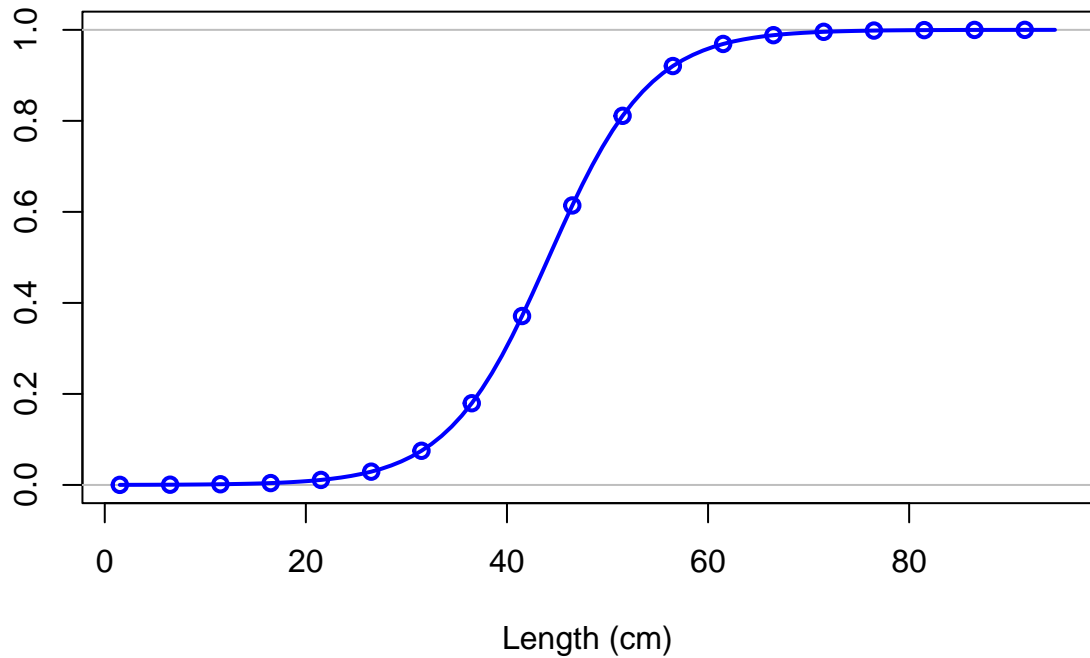




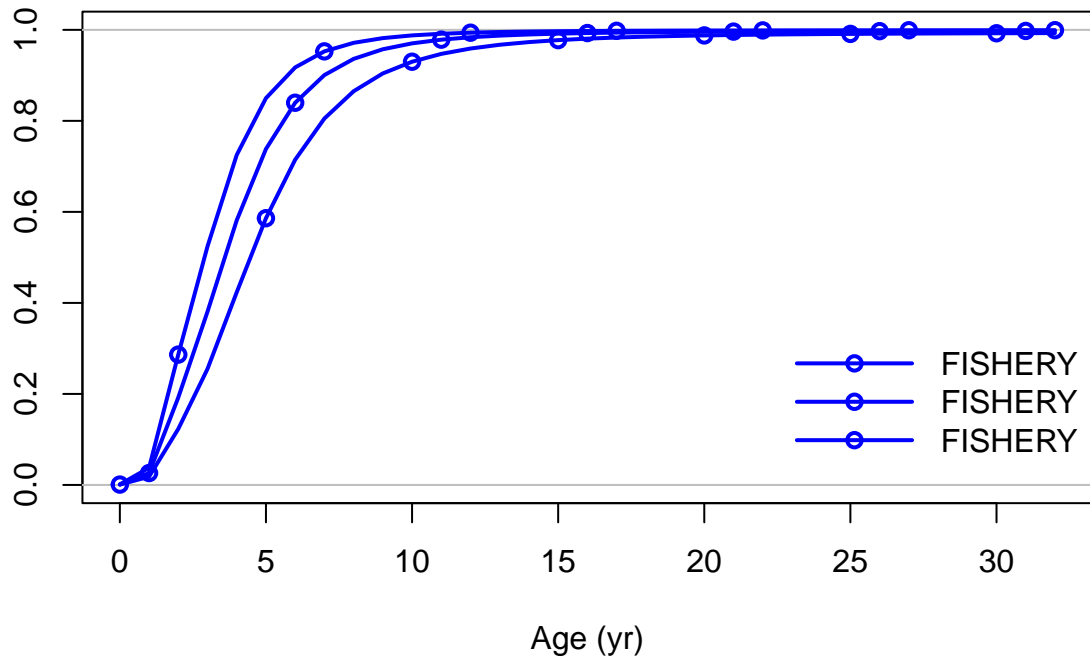
Spawning output



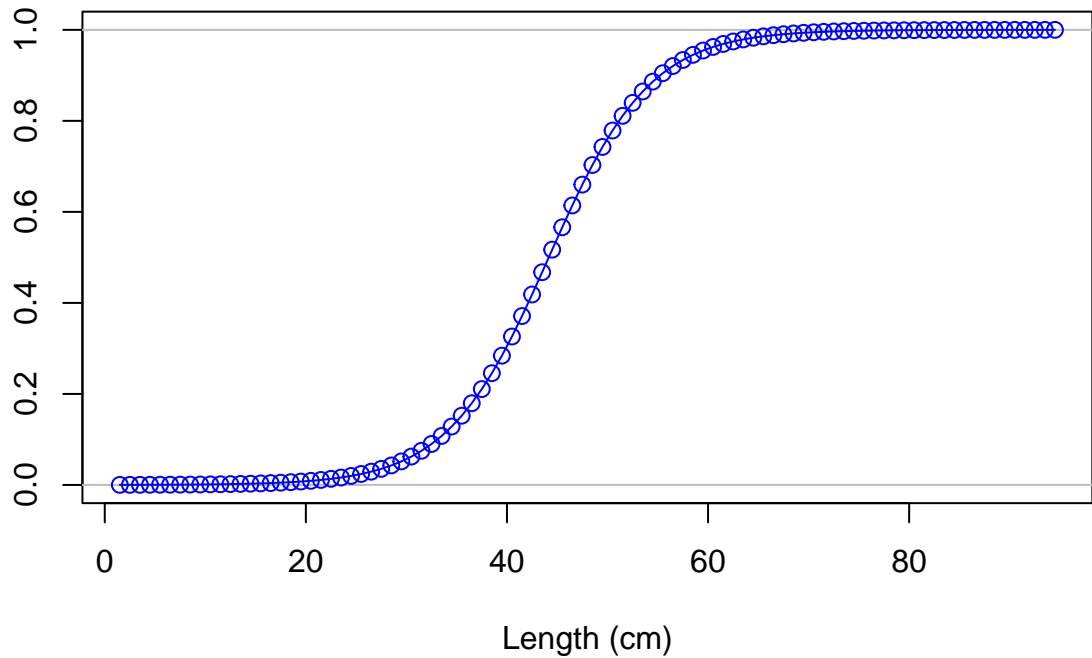
Selectivity

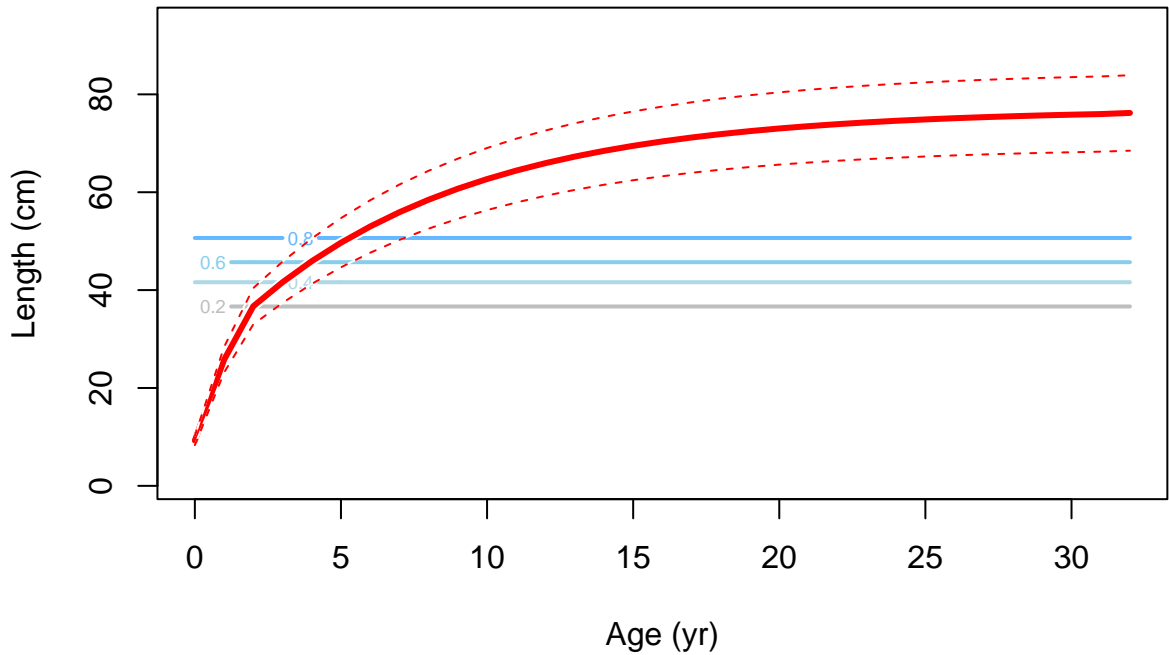


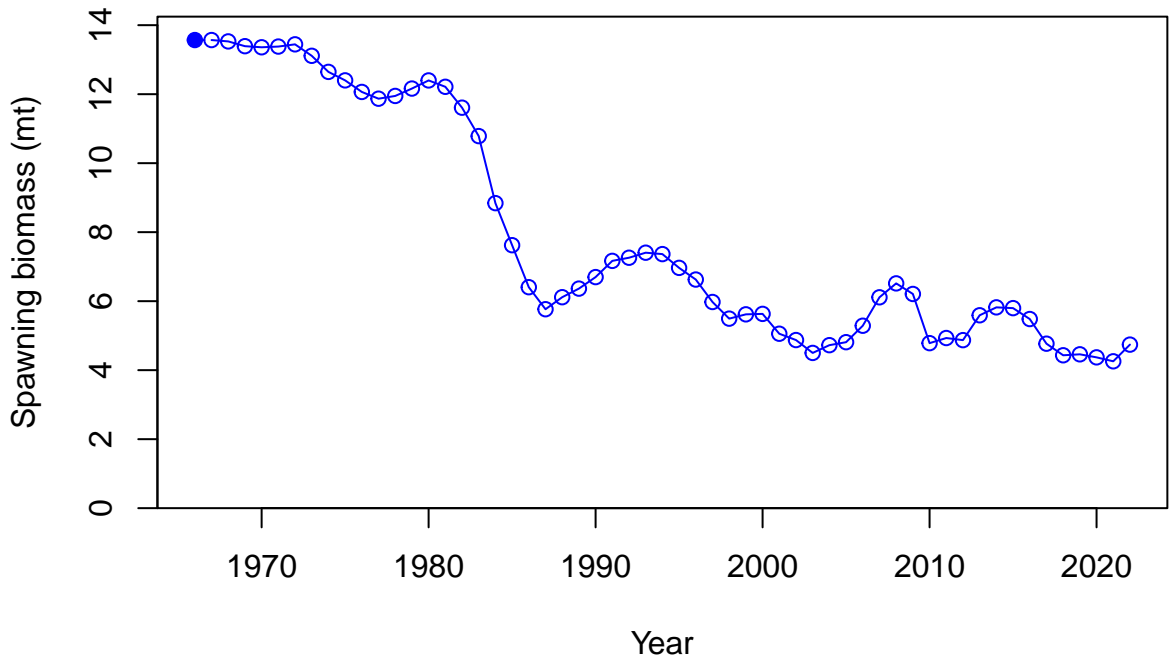
Selectivity



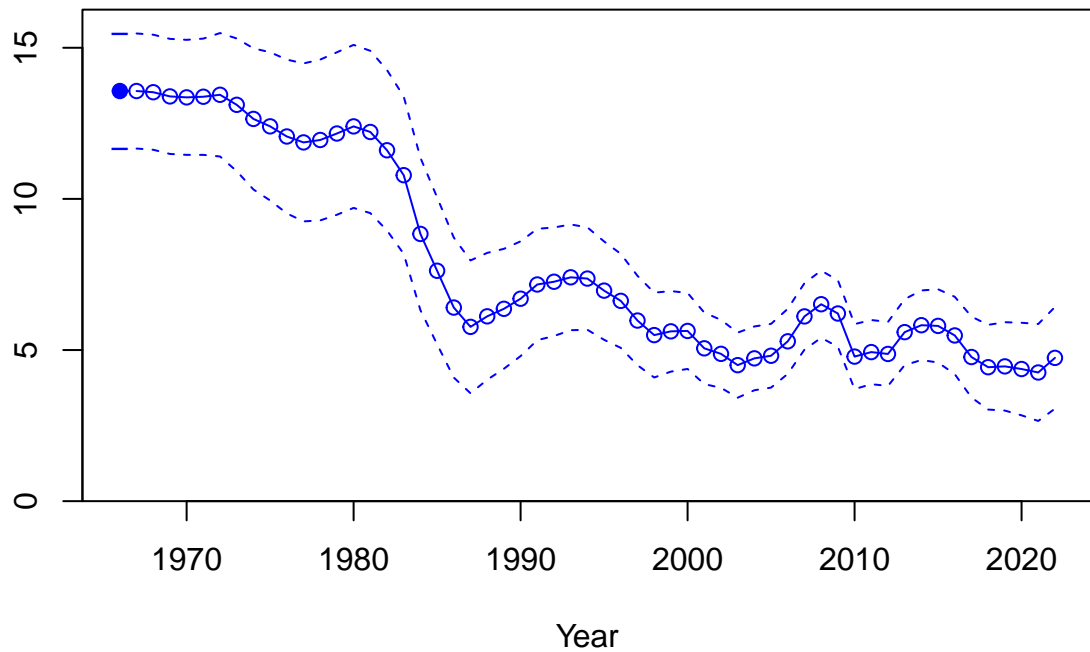
Selectivity



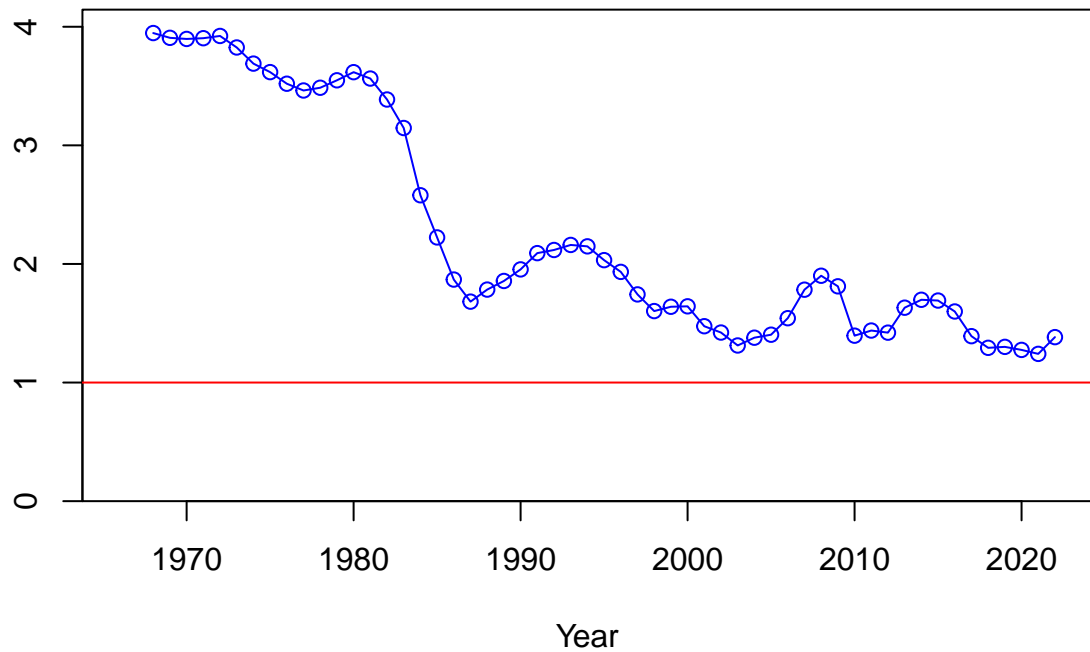




Spawning biomass (mt)

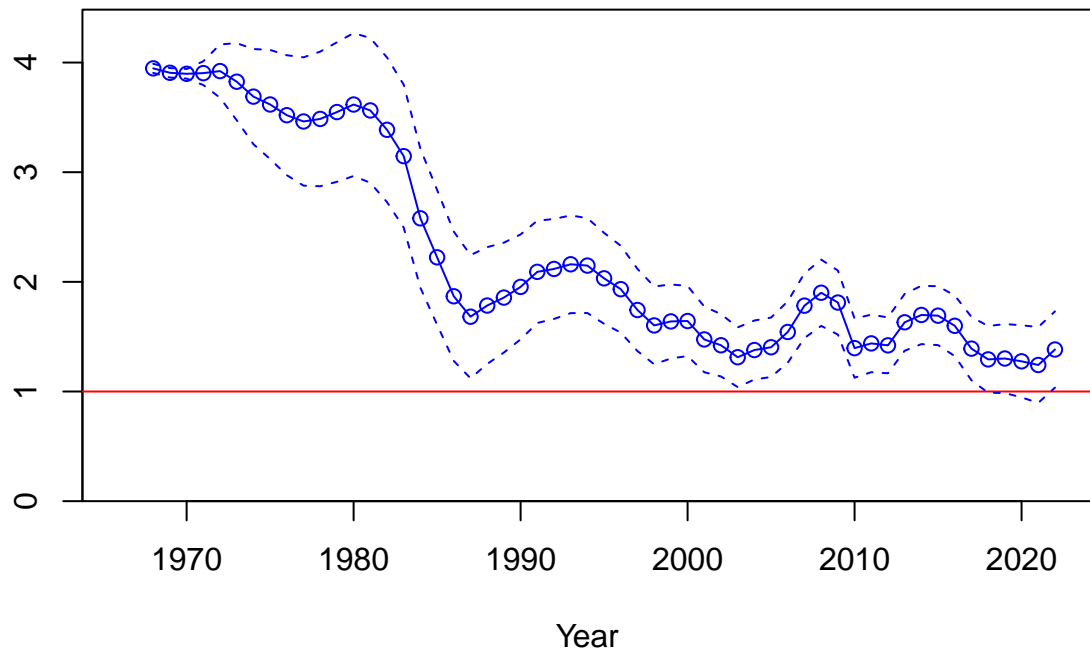


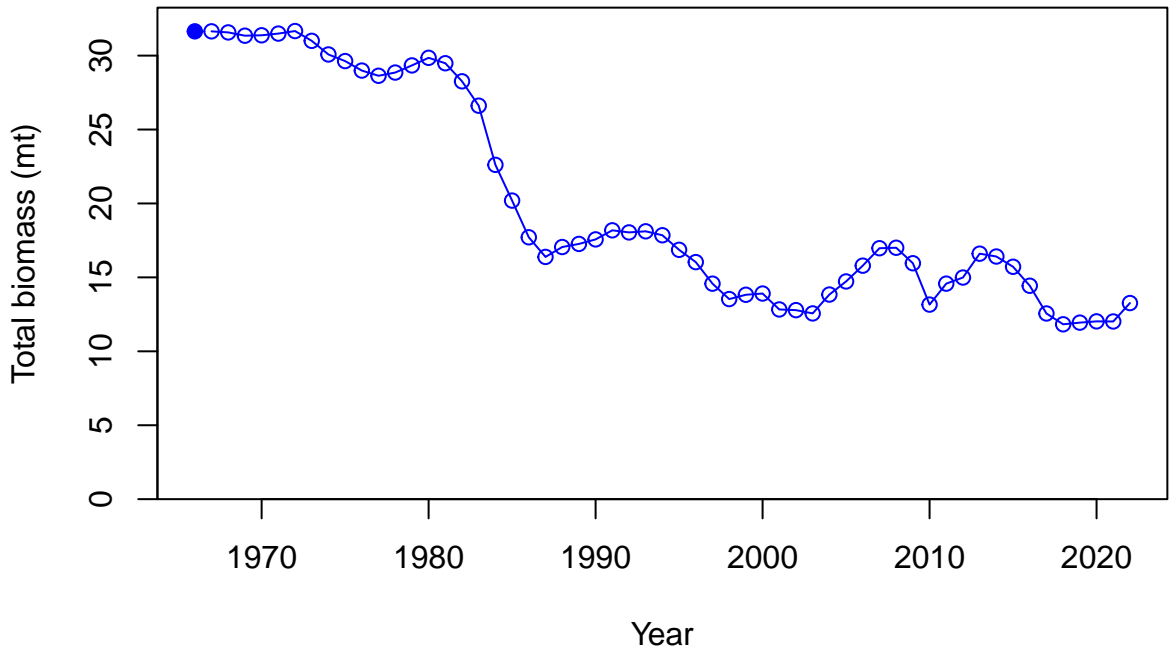
Relative spawning biomass:  $B/B_{MSY}$



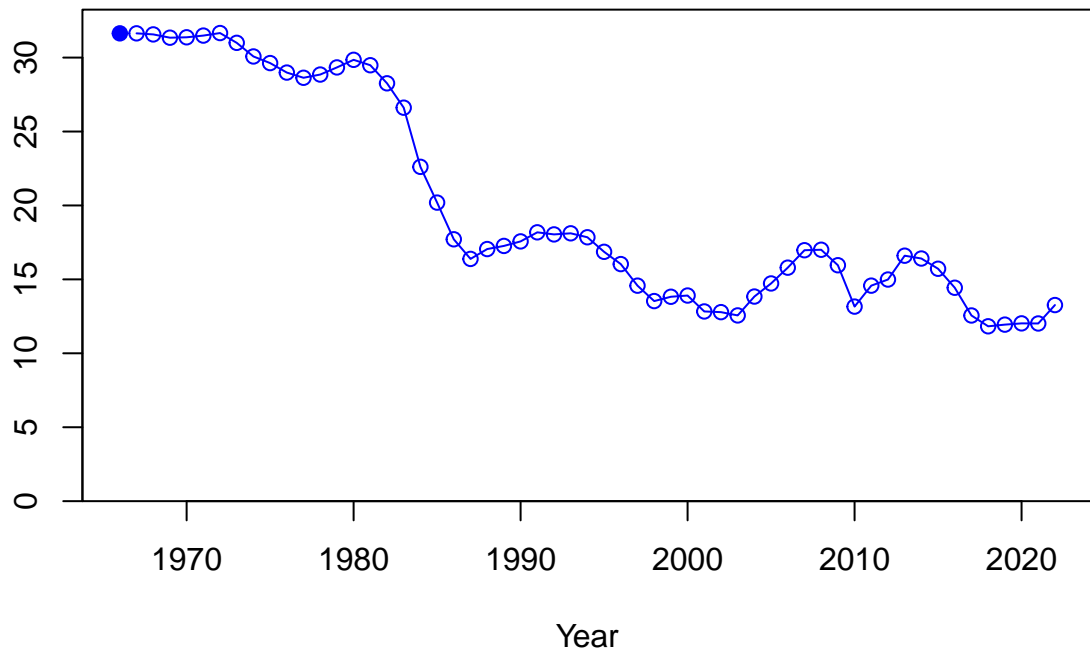


Relative spawning biomass:  $B/B_{MSY}$

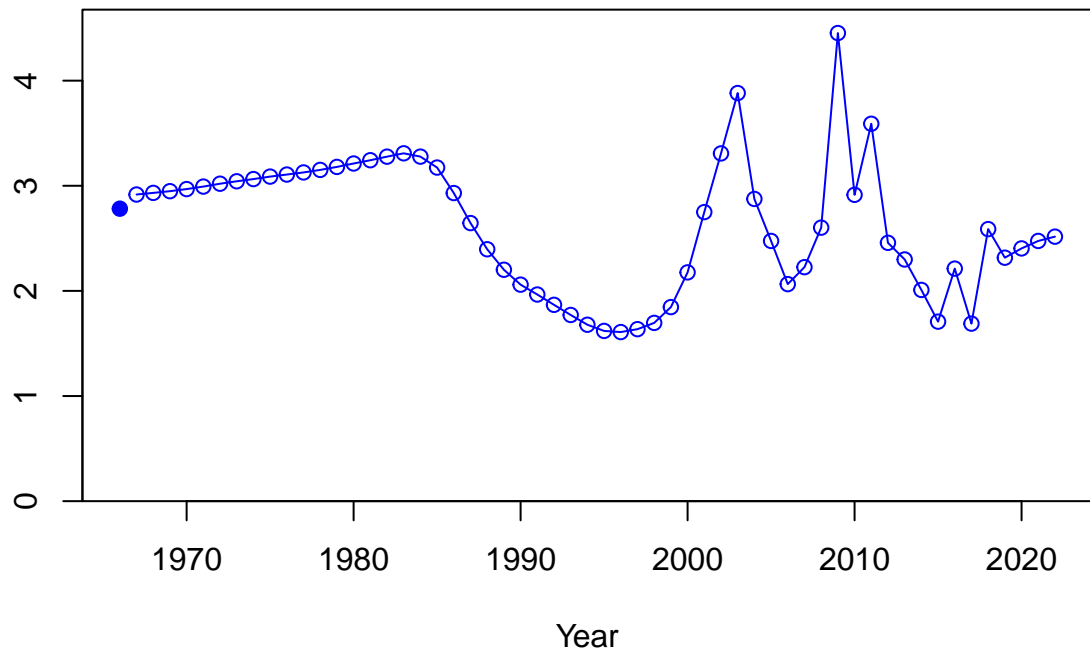




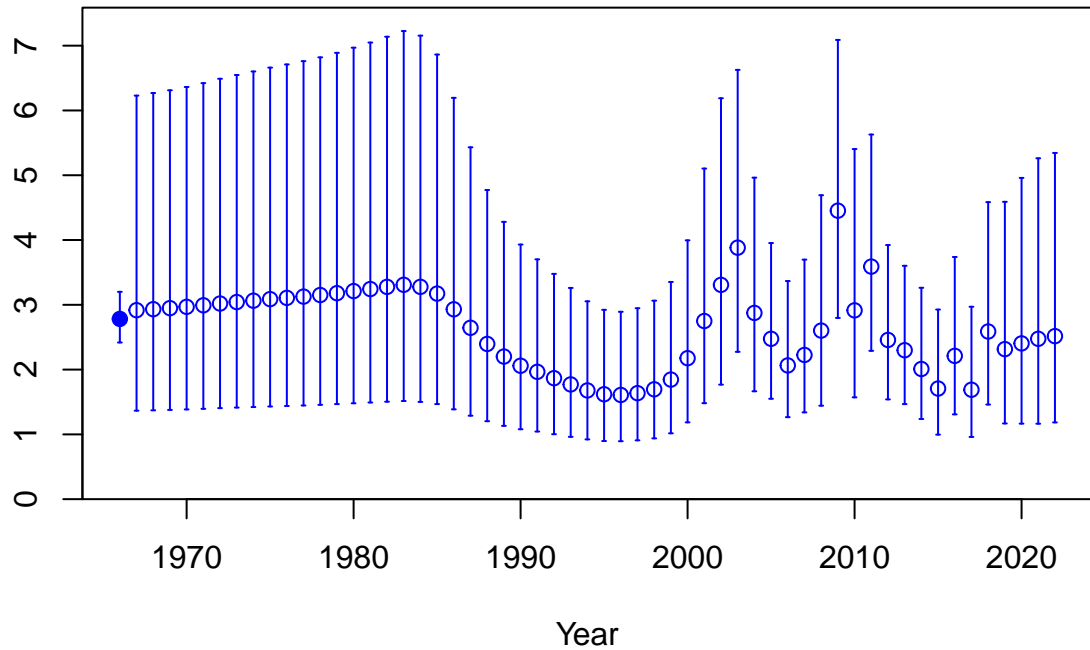
Summary biomass (mt)



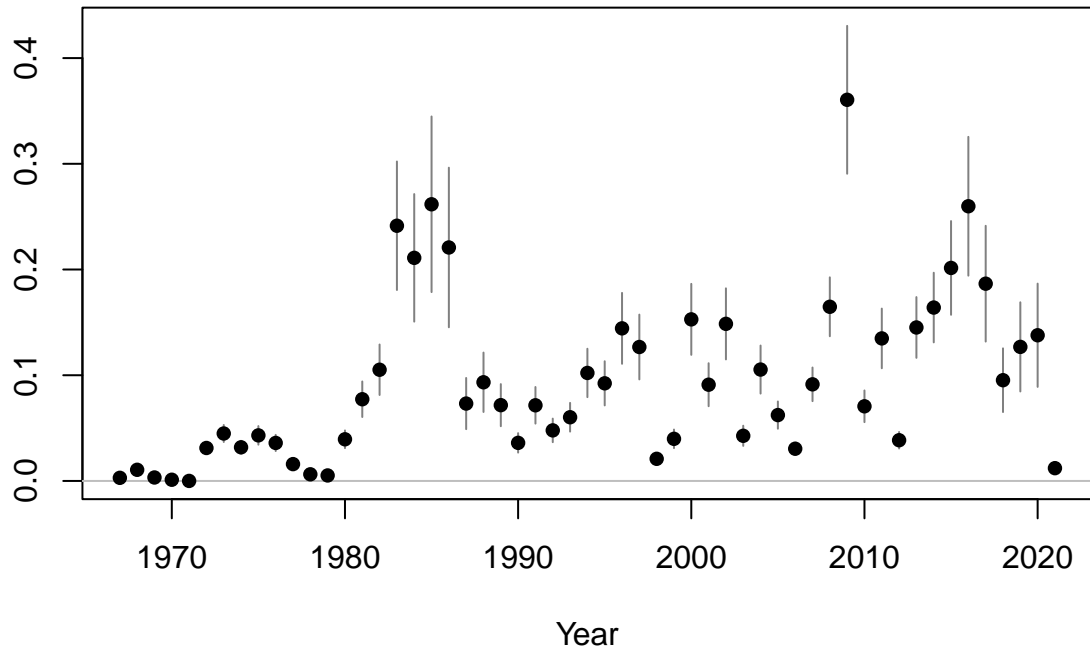
Age-0 recruits (1,000s)

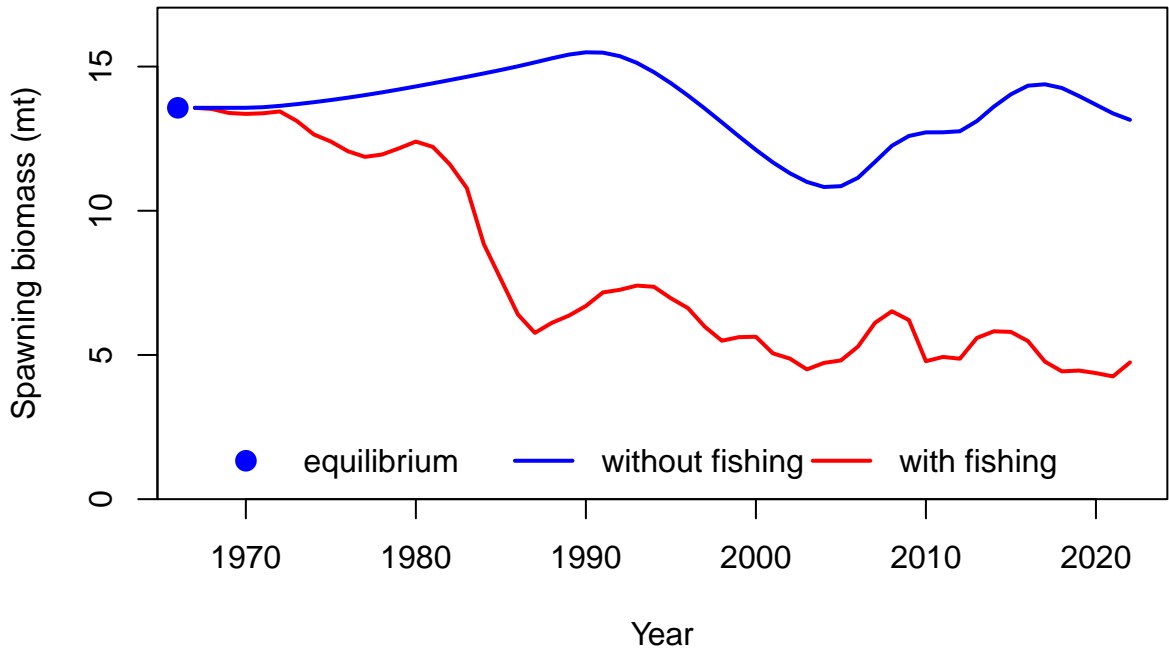


Age-0 recruits (1,000s)

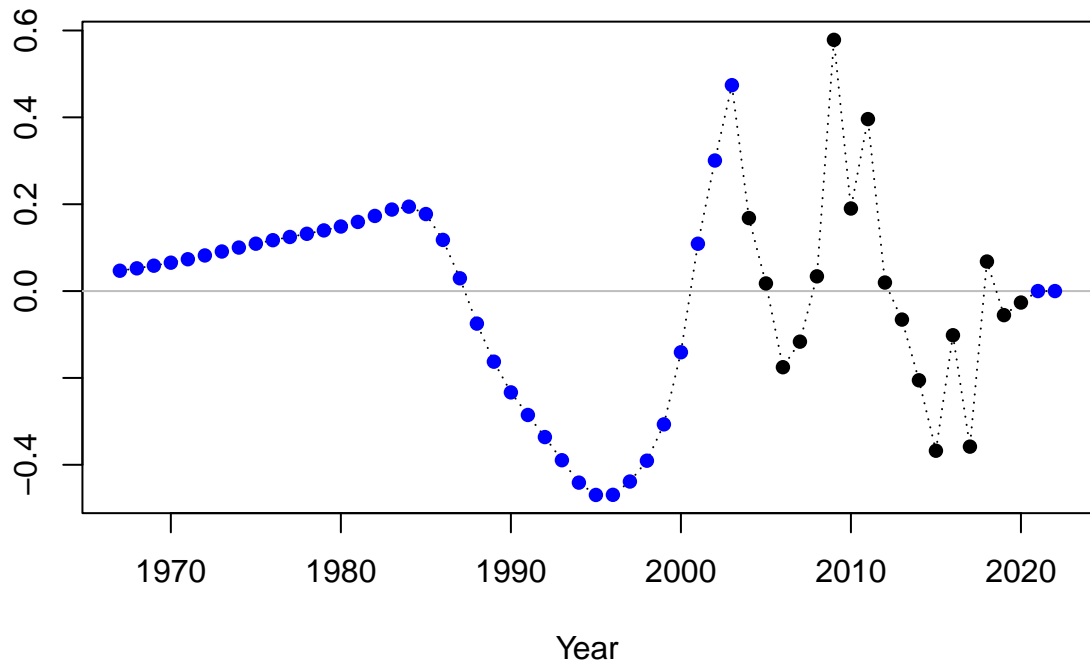


Summary Fishing Mortality



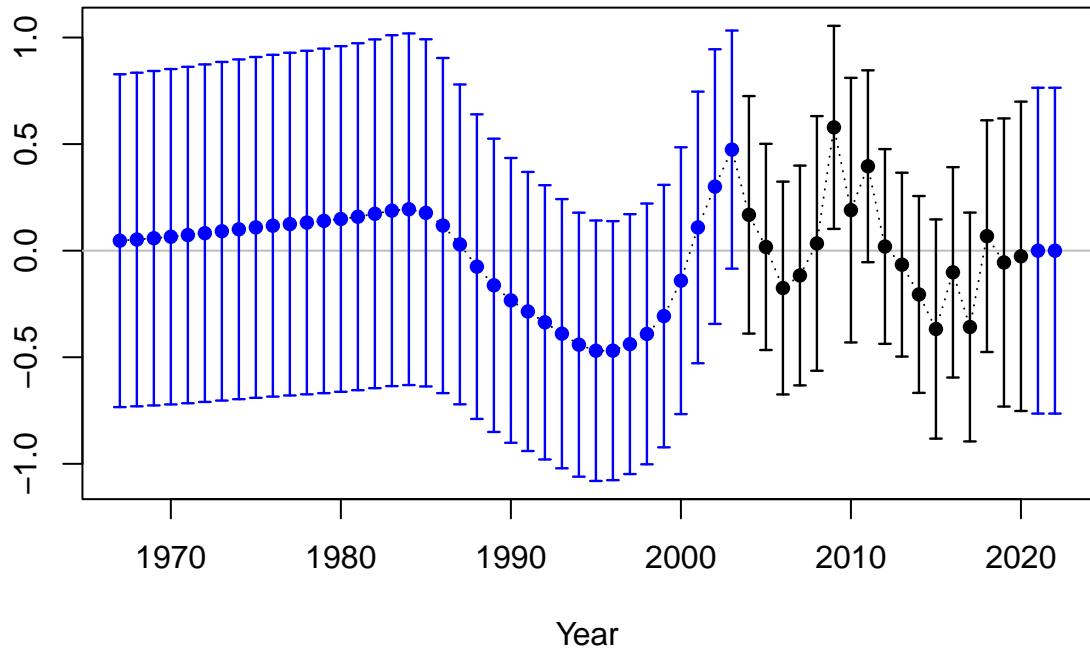


Log recruitment deviation



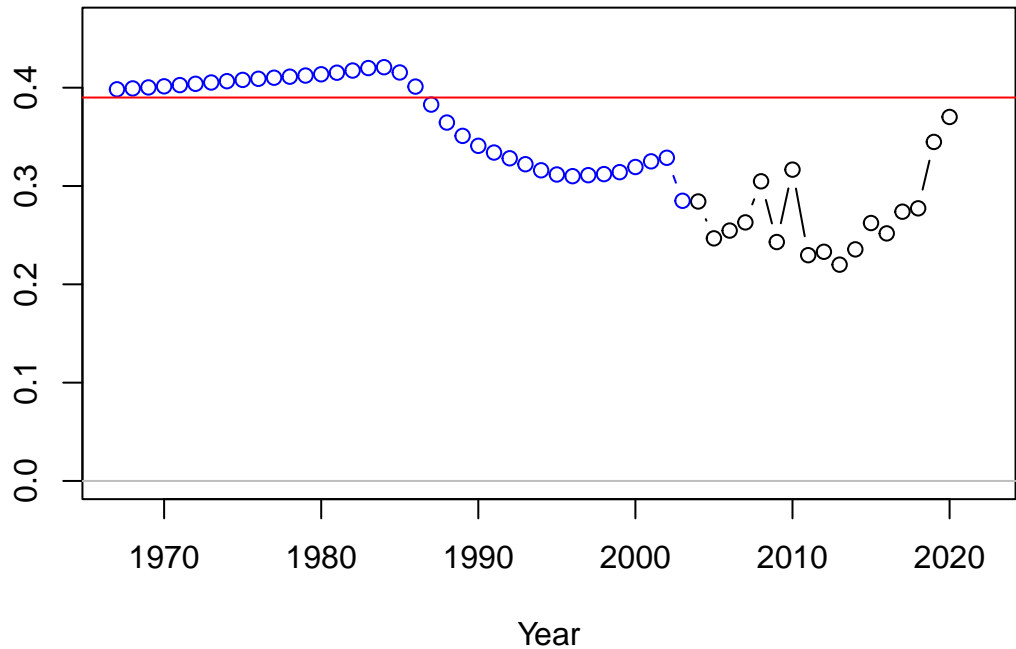


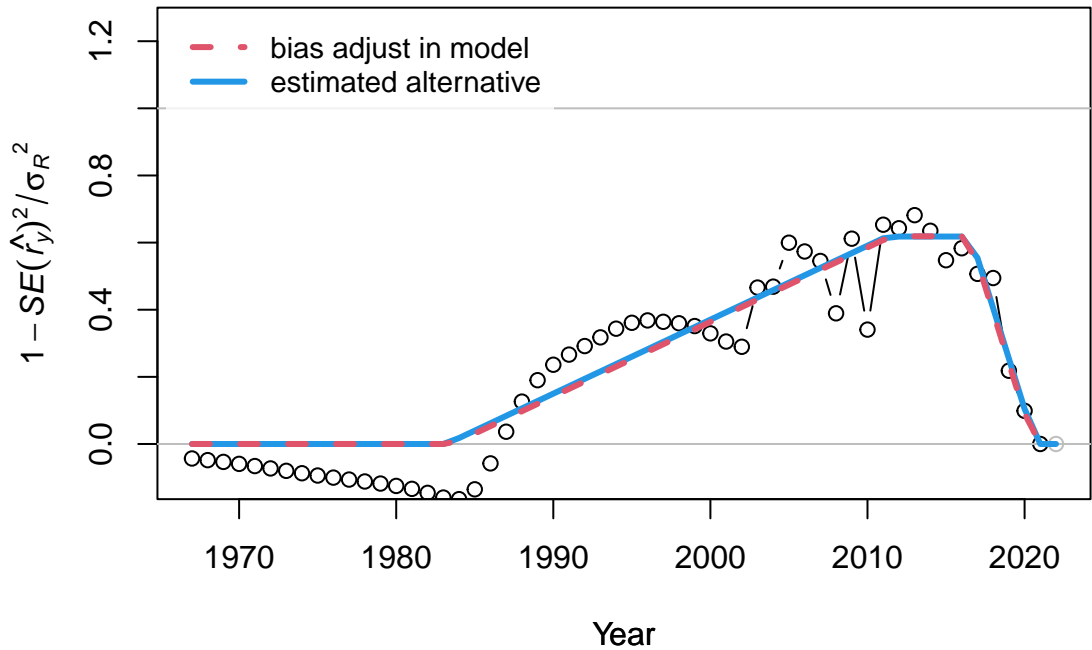
Log recruitment deviation

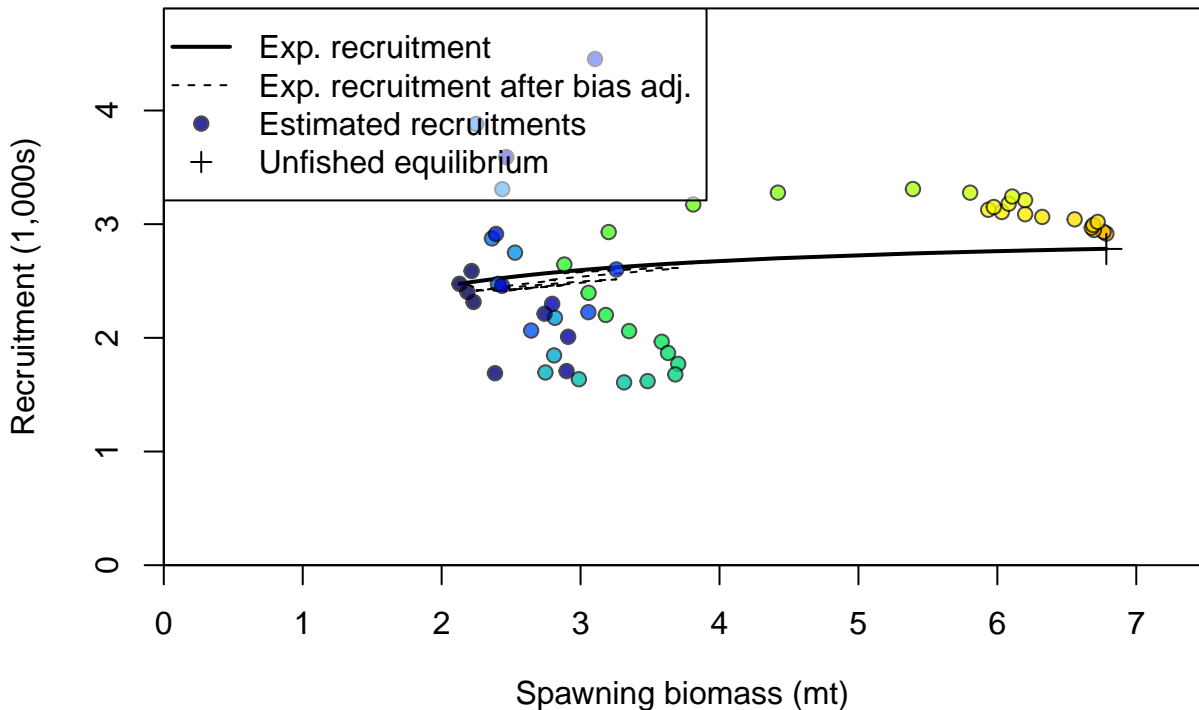


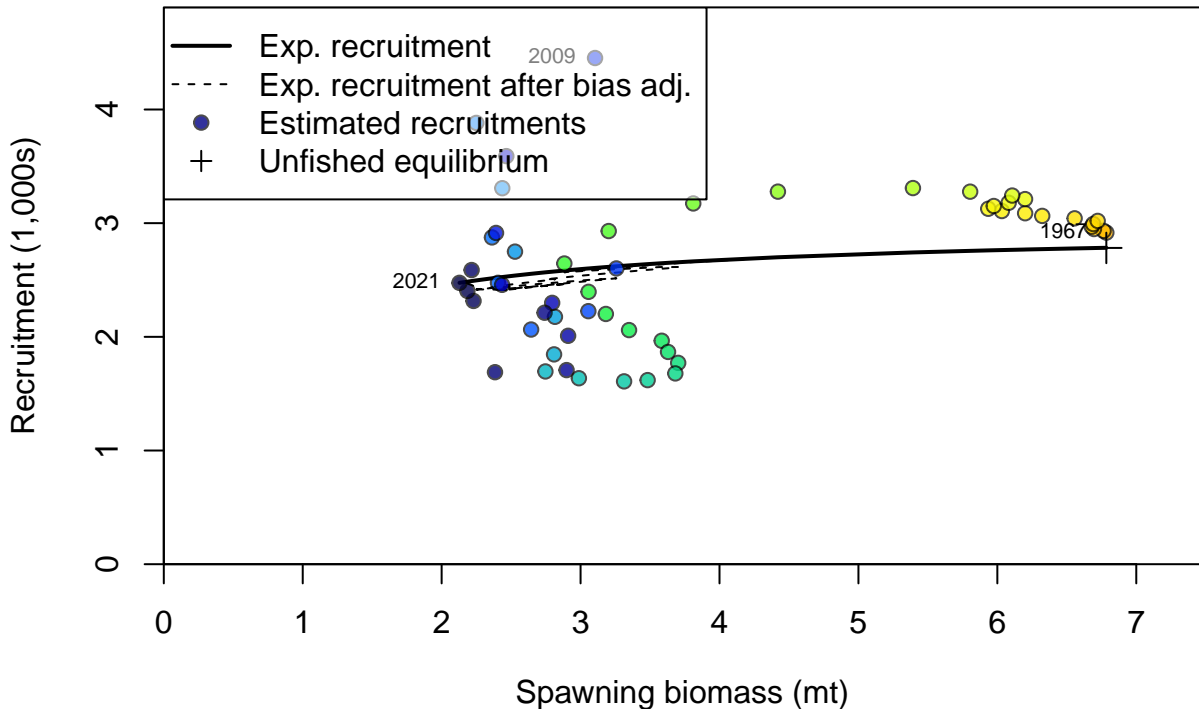
## Recruitment deviation variance

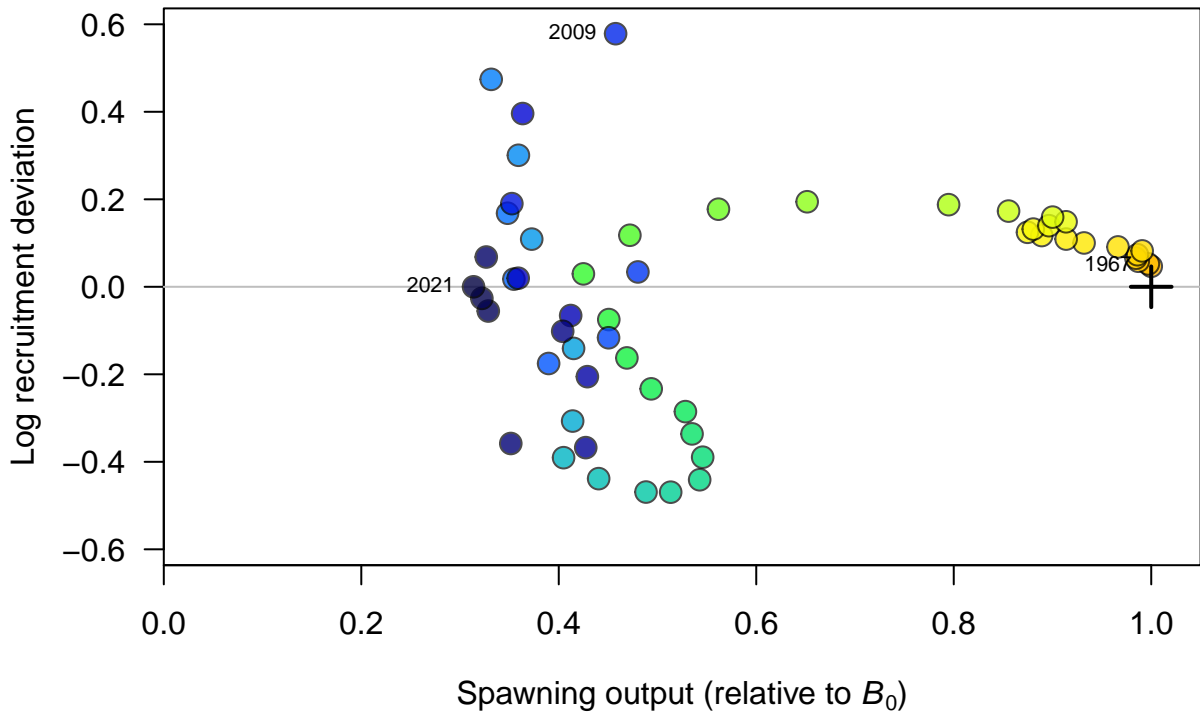
Asymptotic standard error estimate

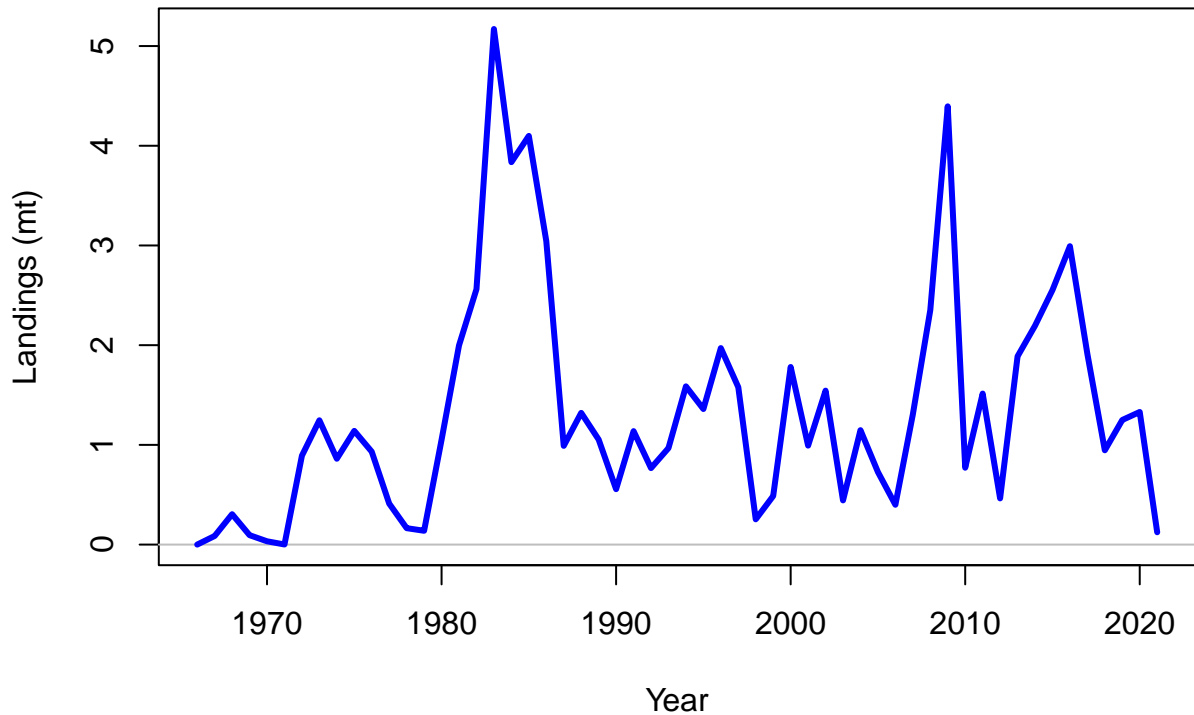


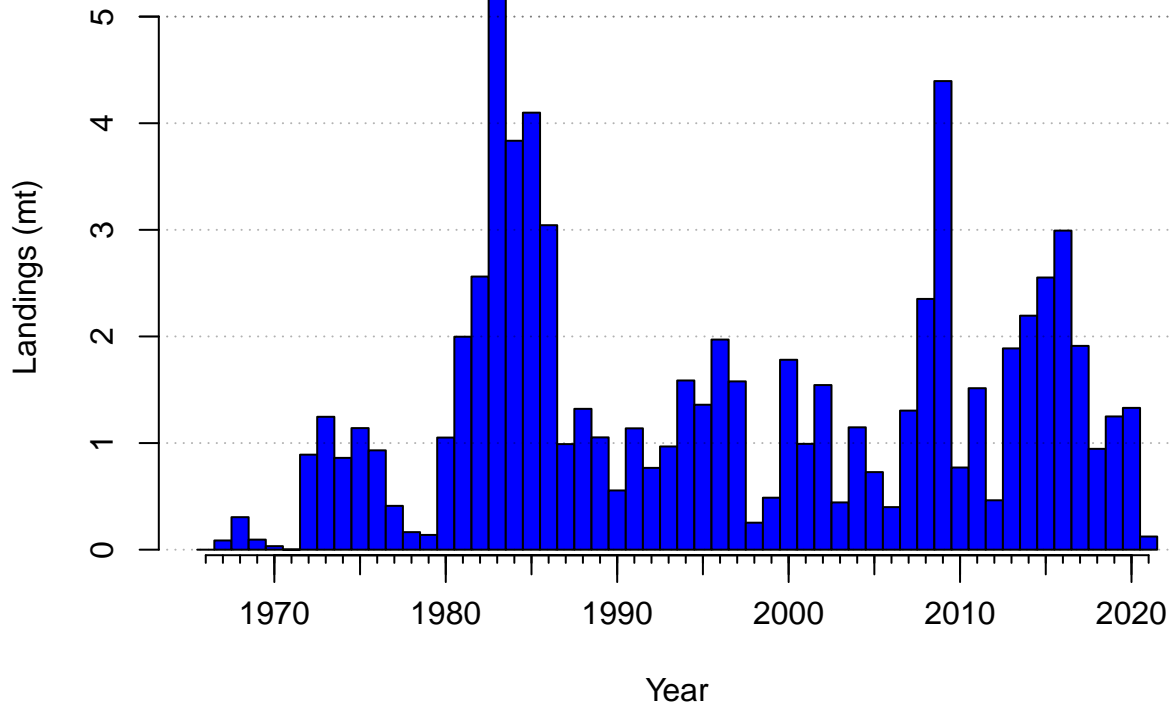




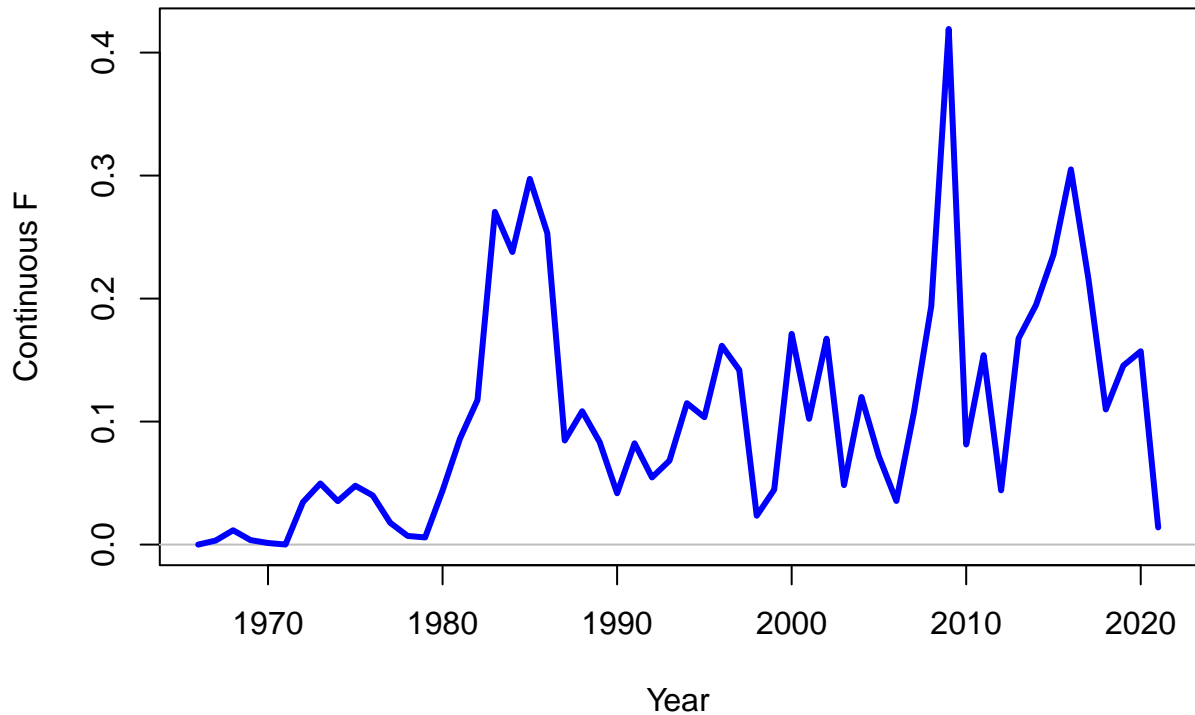




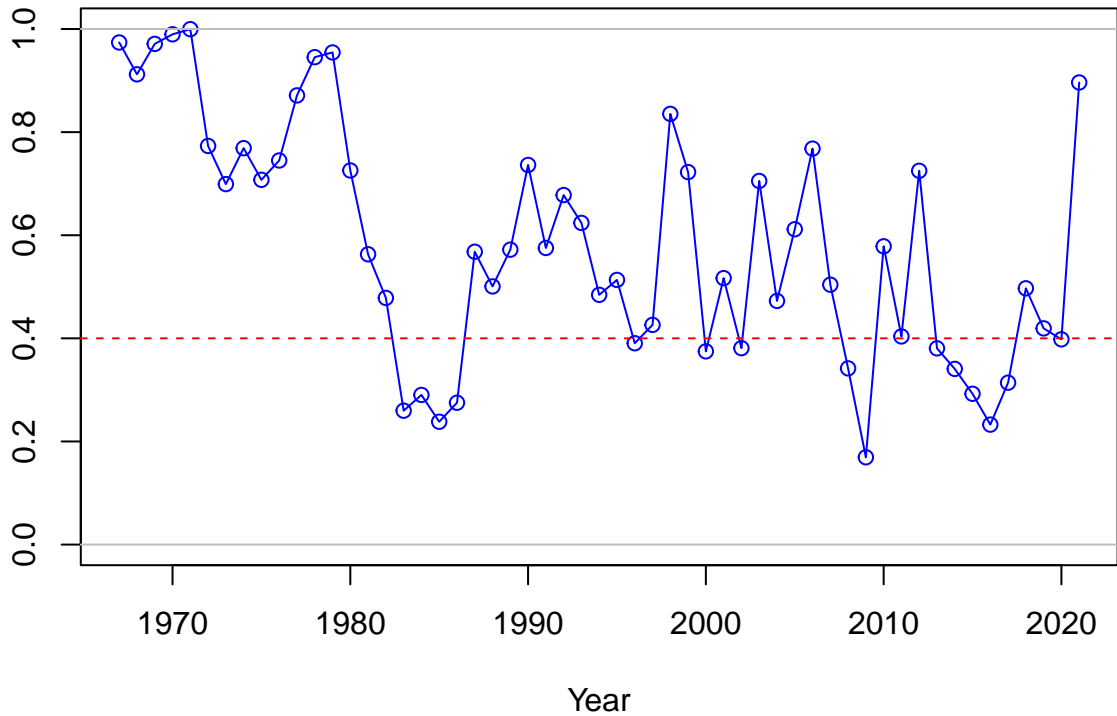




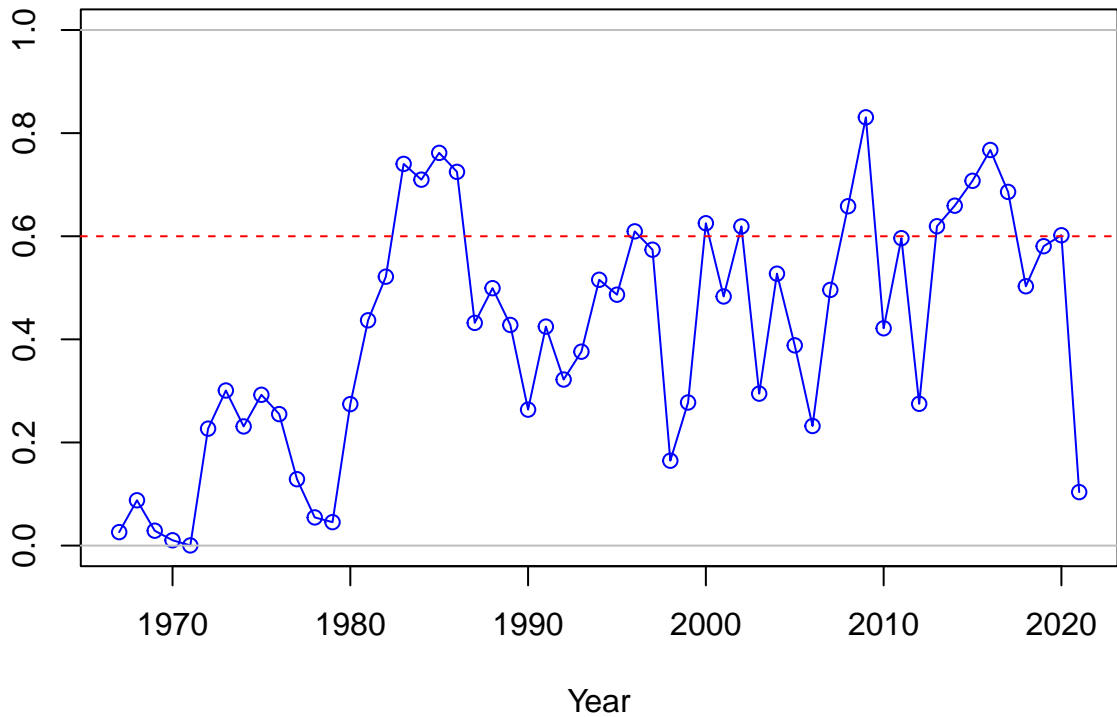




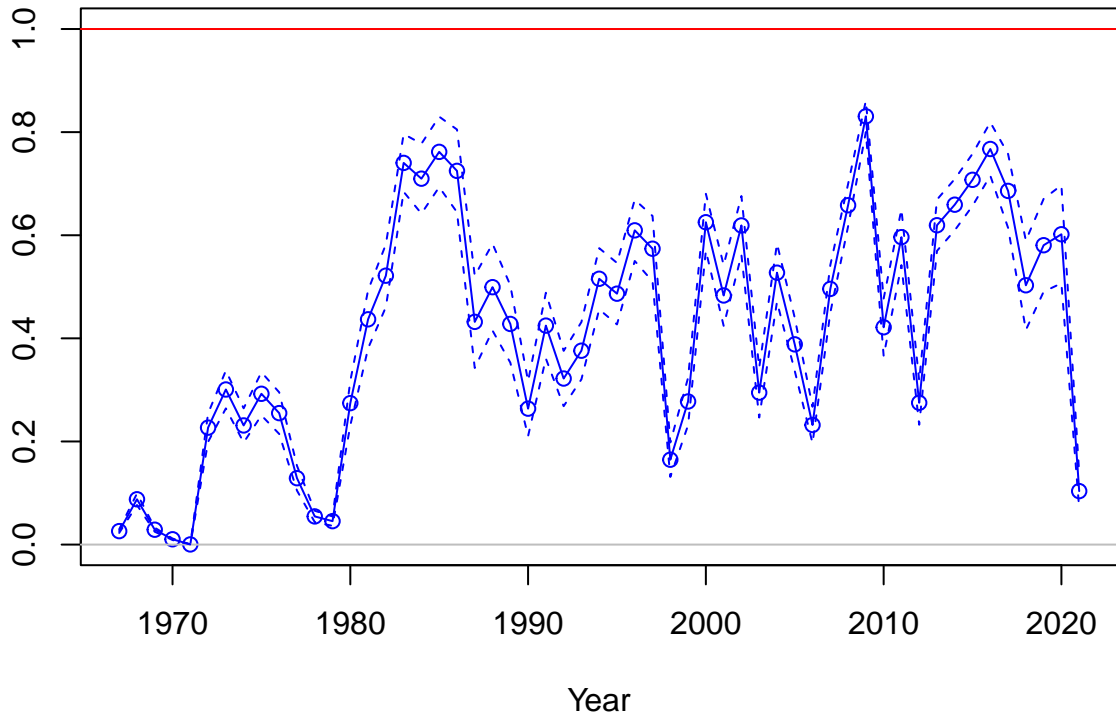
SPR



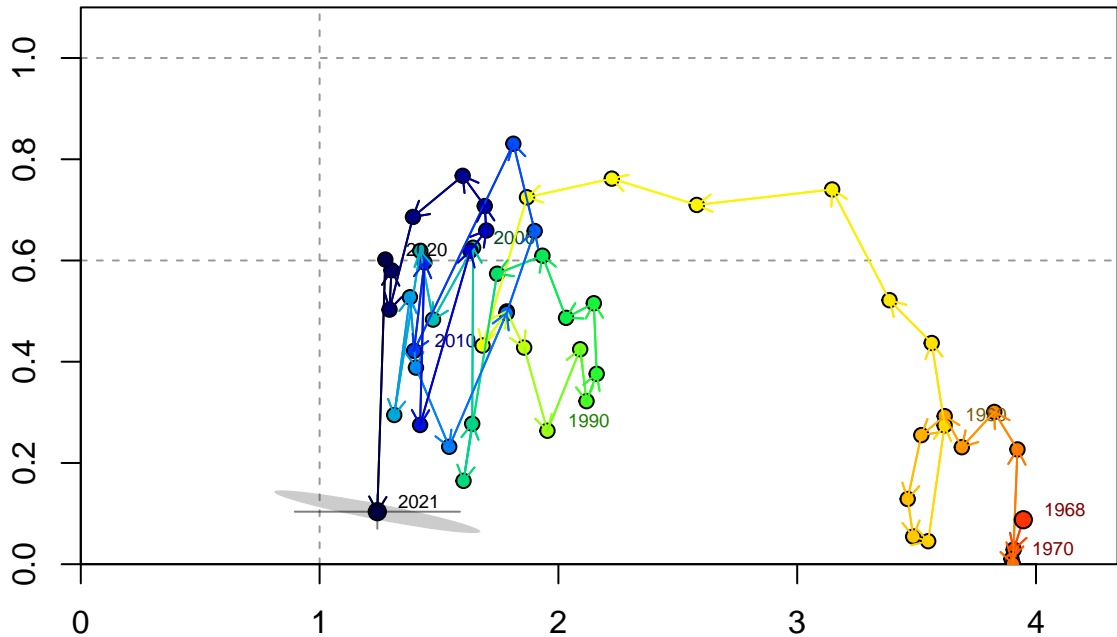
1-SPR



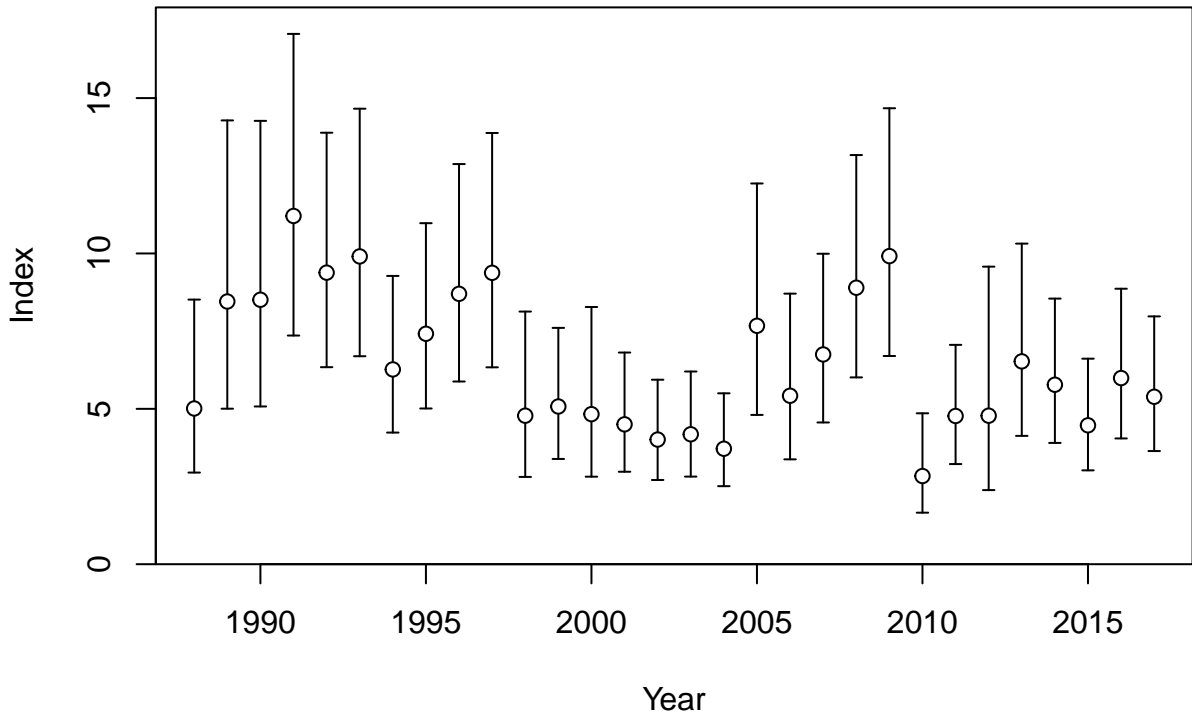
Fishing intensity: 1-SPR

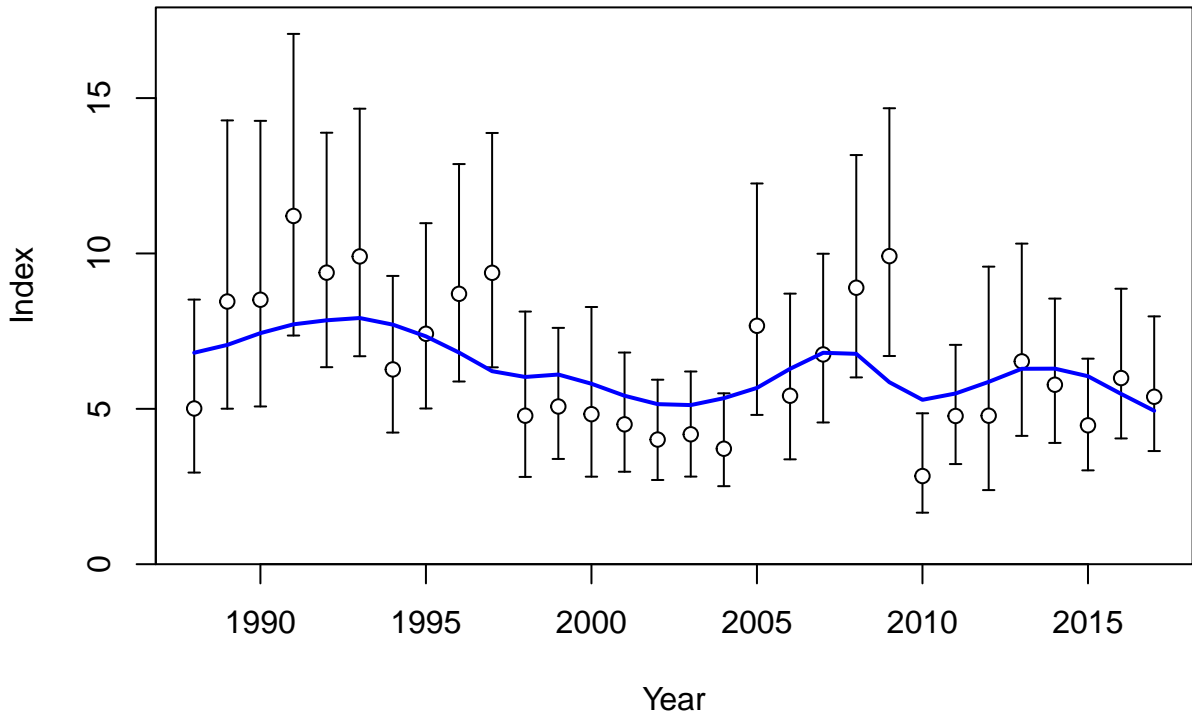


Fishing intensity: 1-SPR

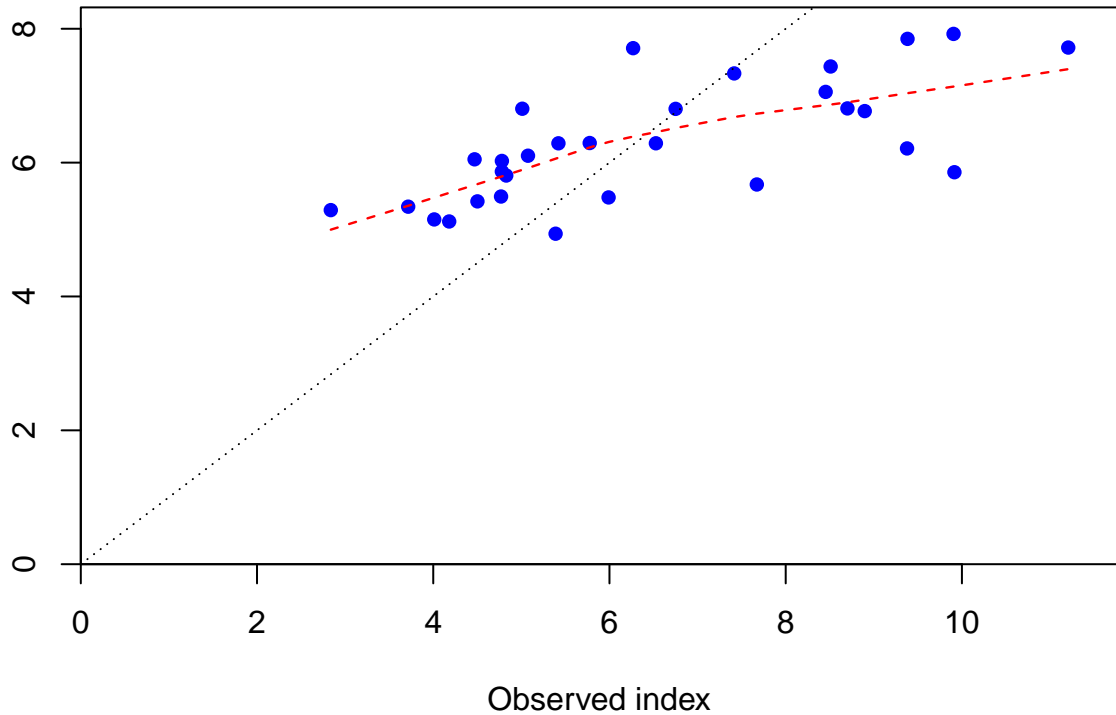


Relative spawning output: B/B\_MSY

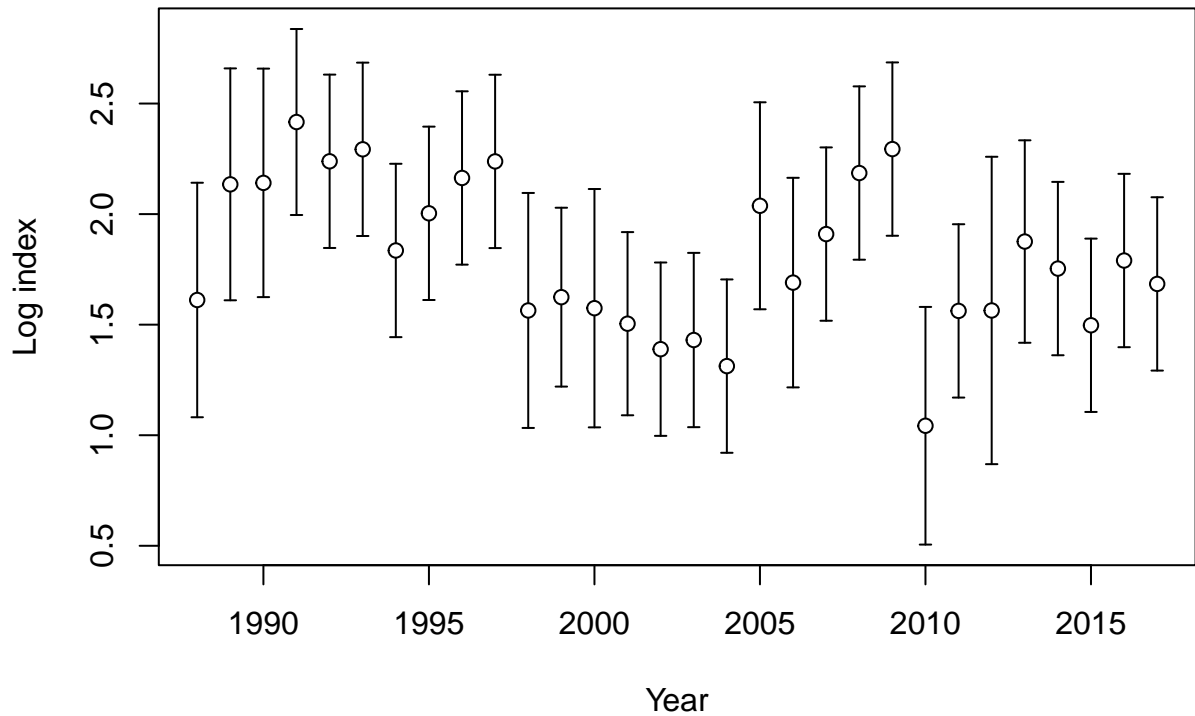


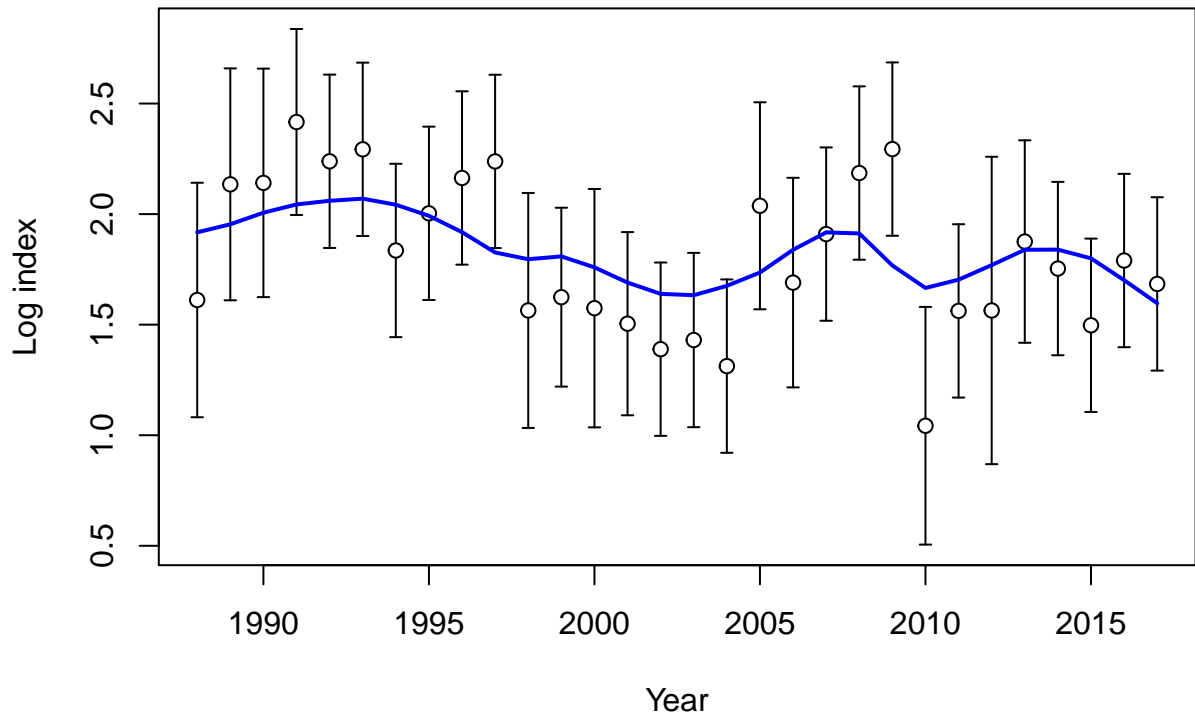


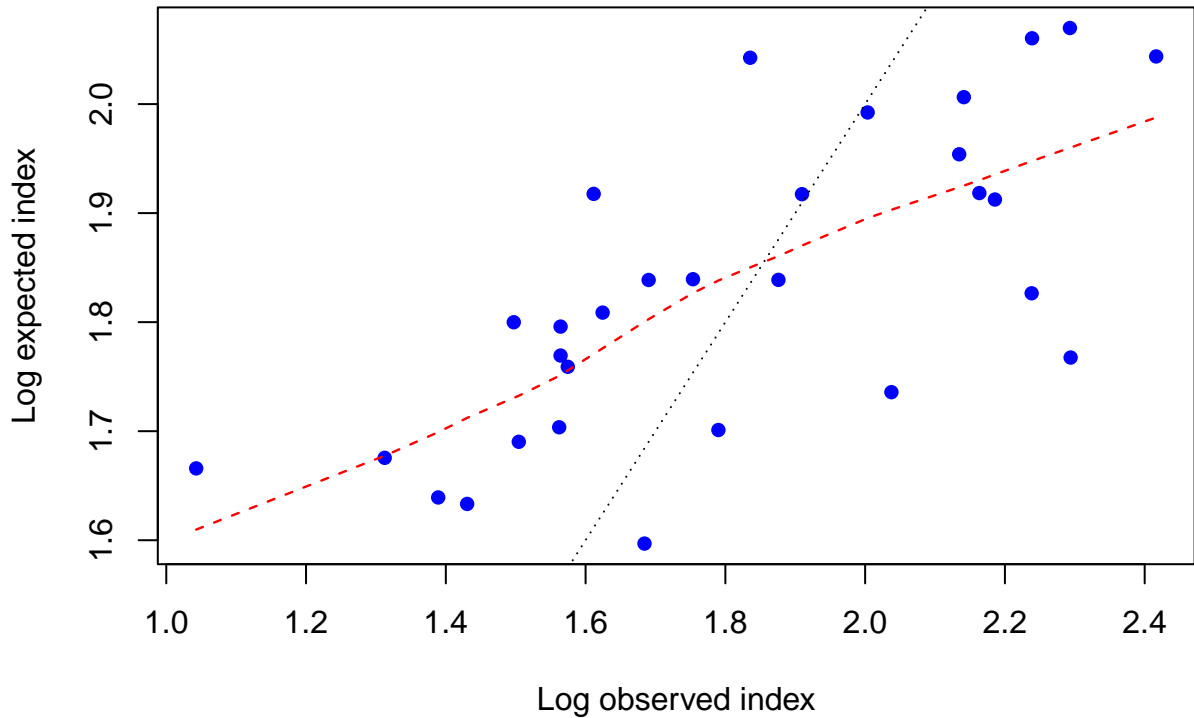
Expected index

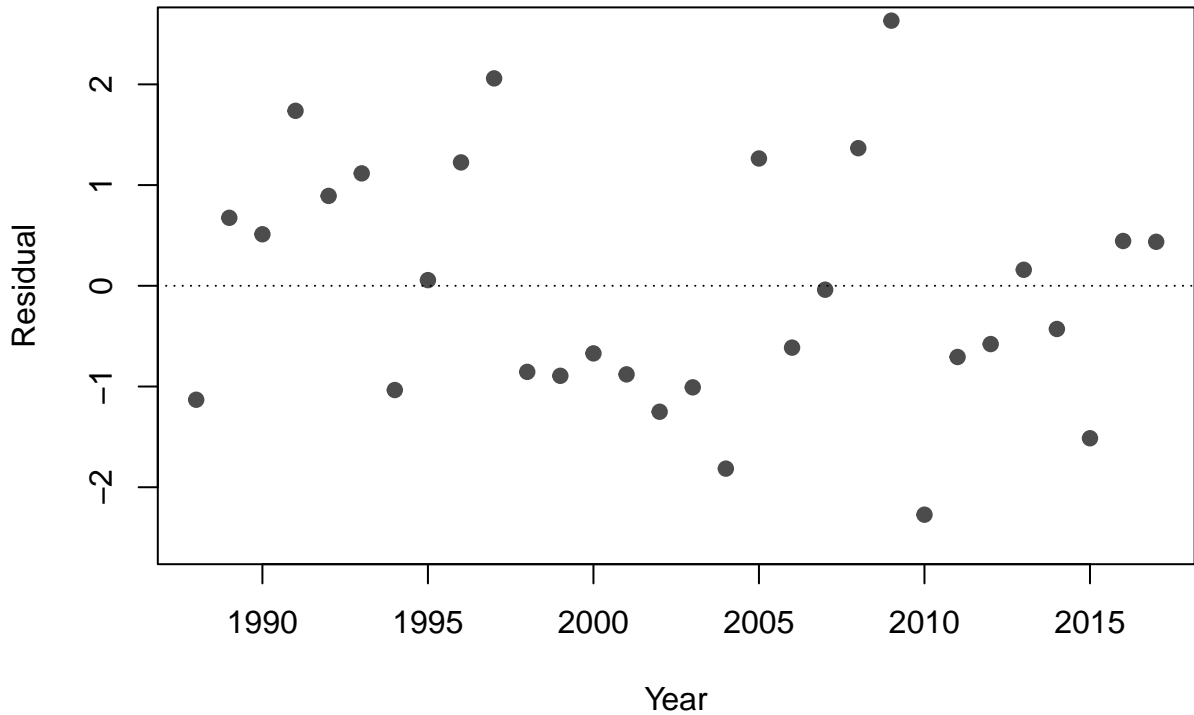


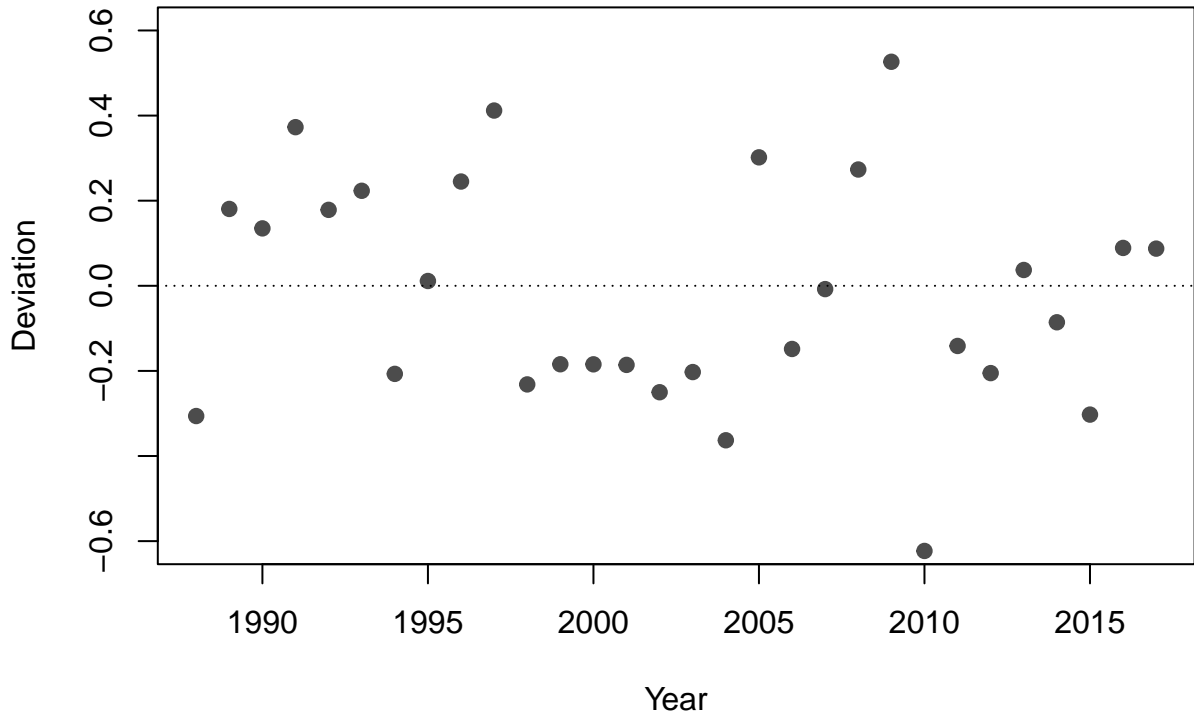


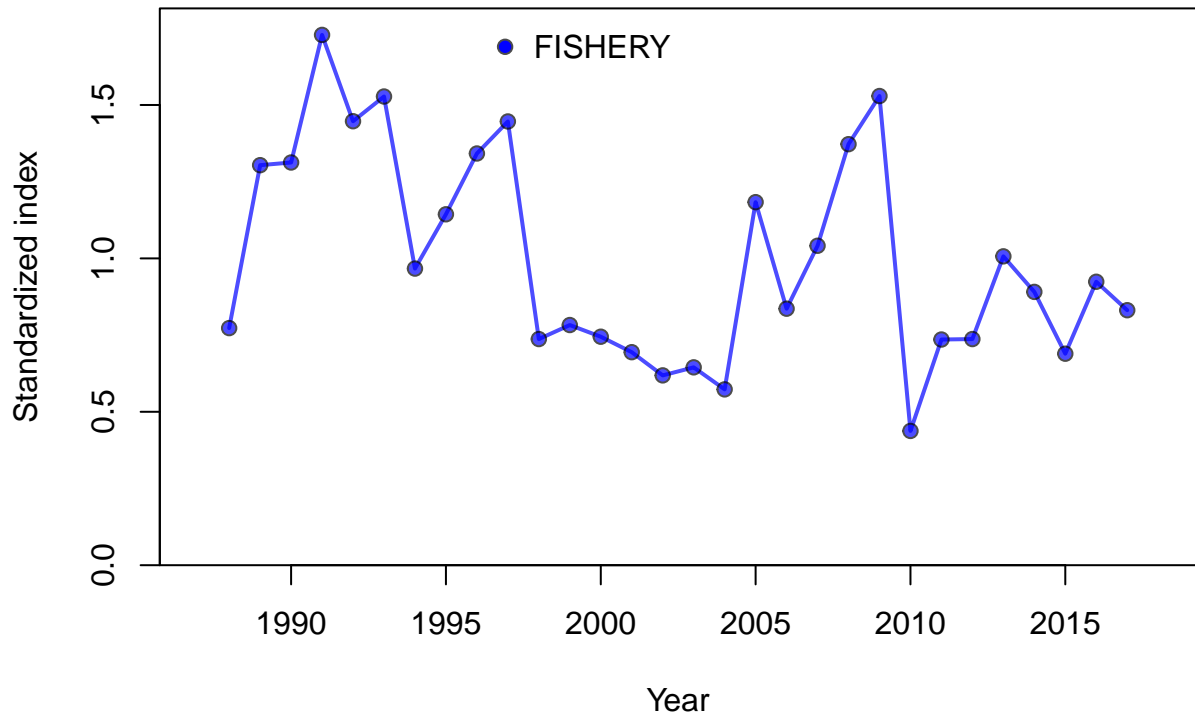


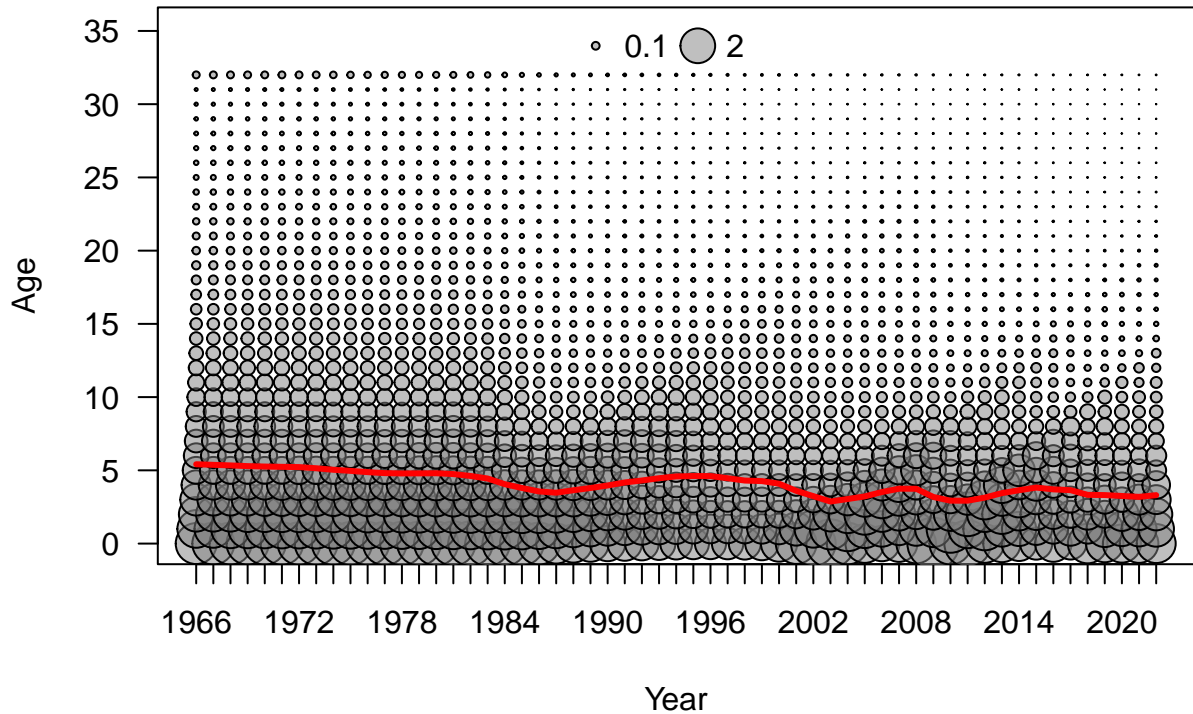


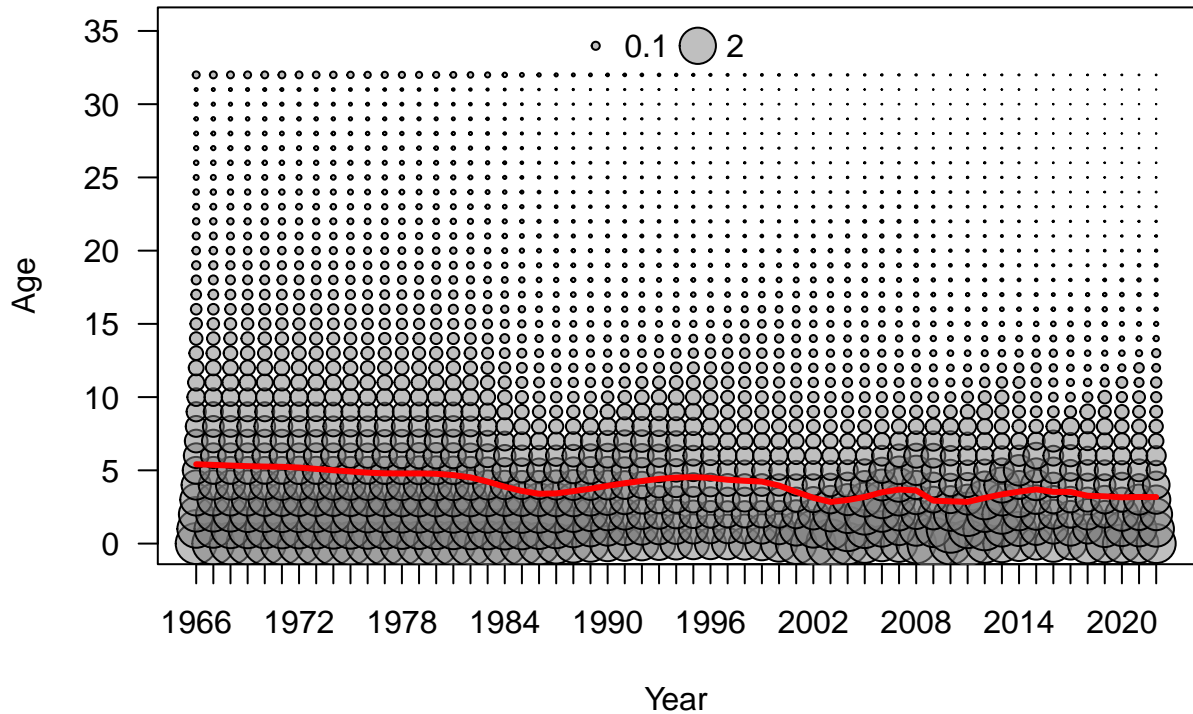




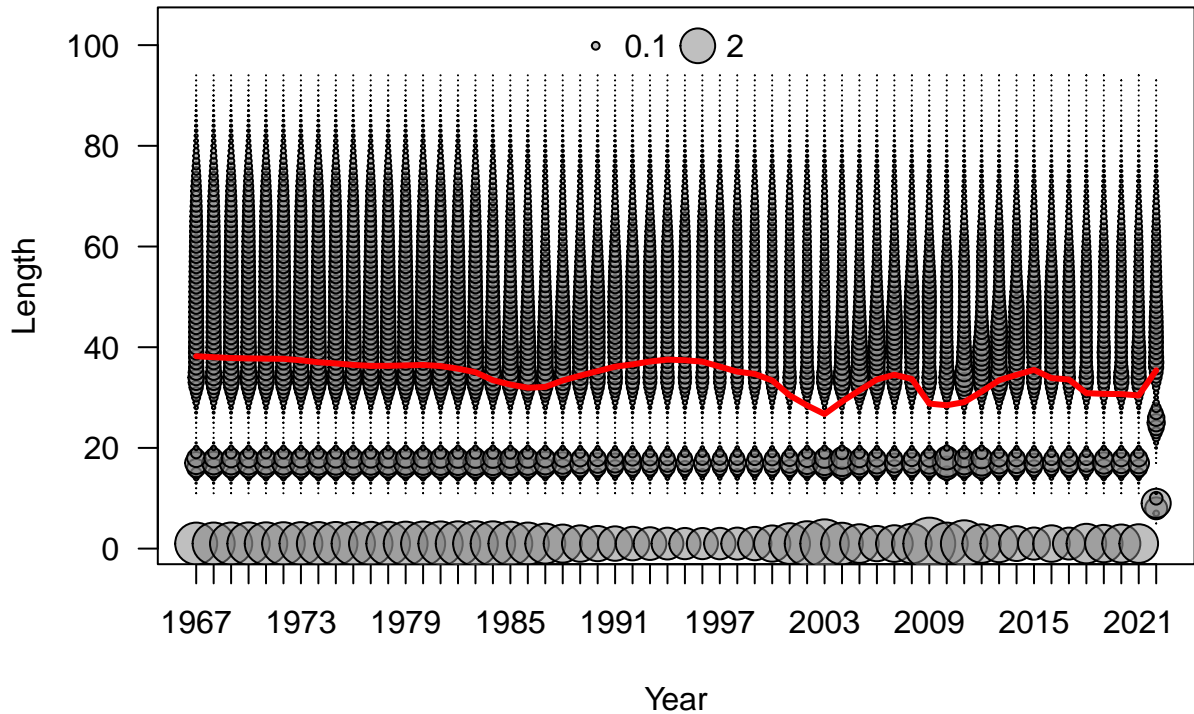


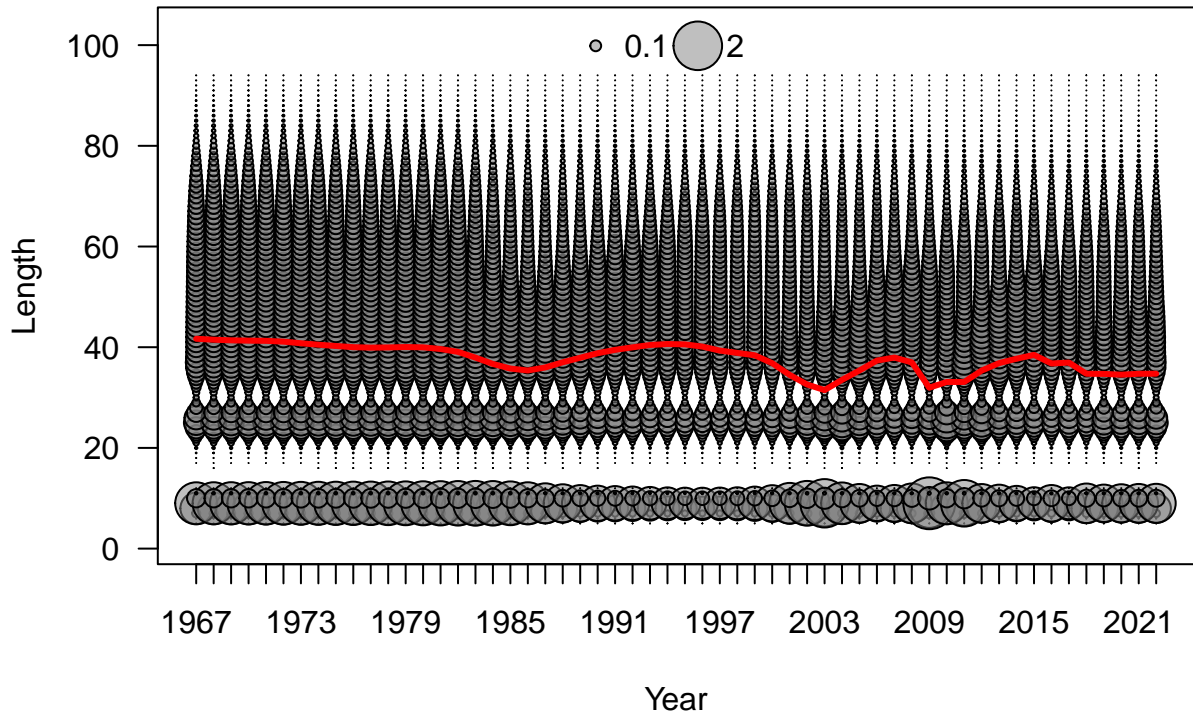


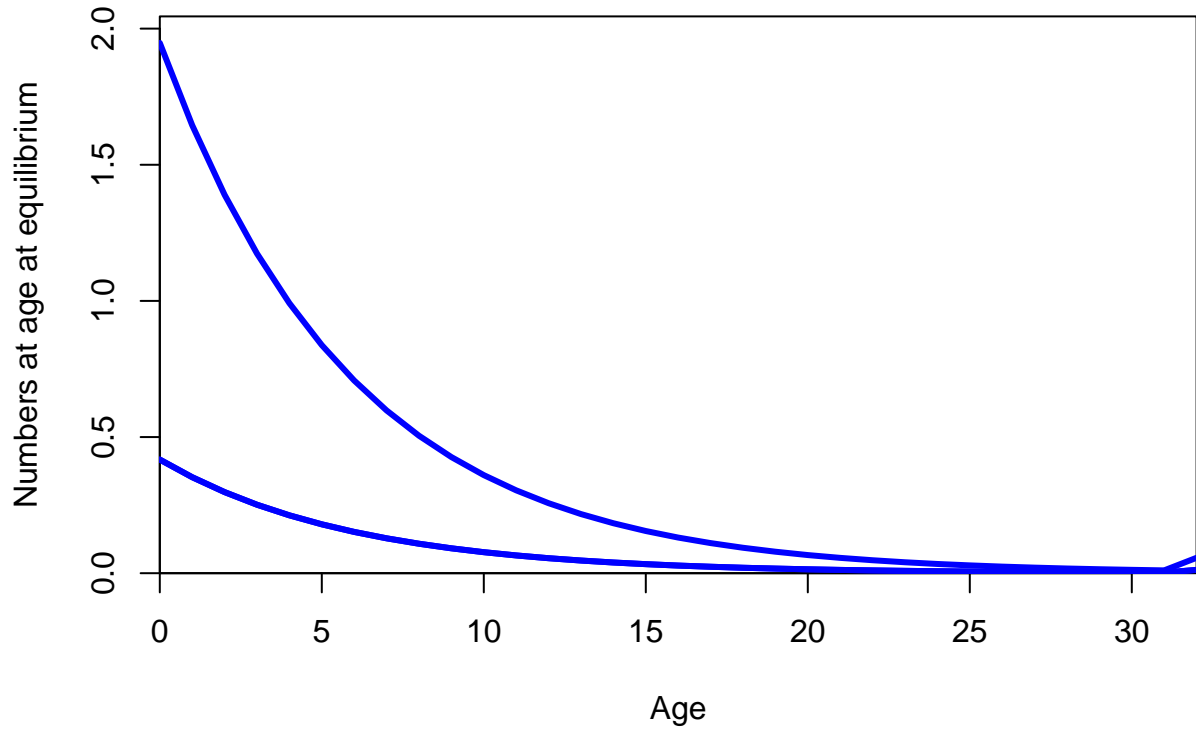






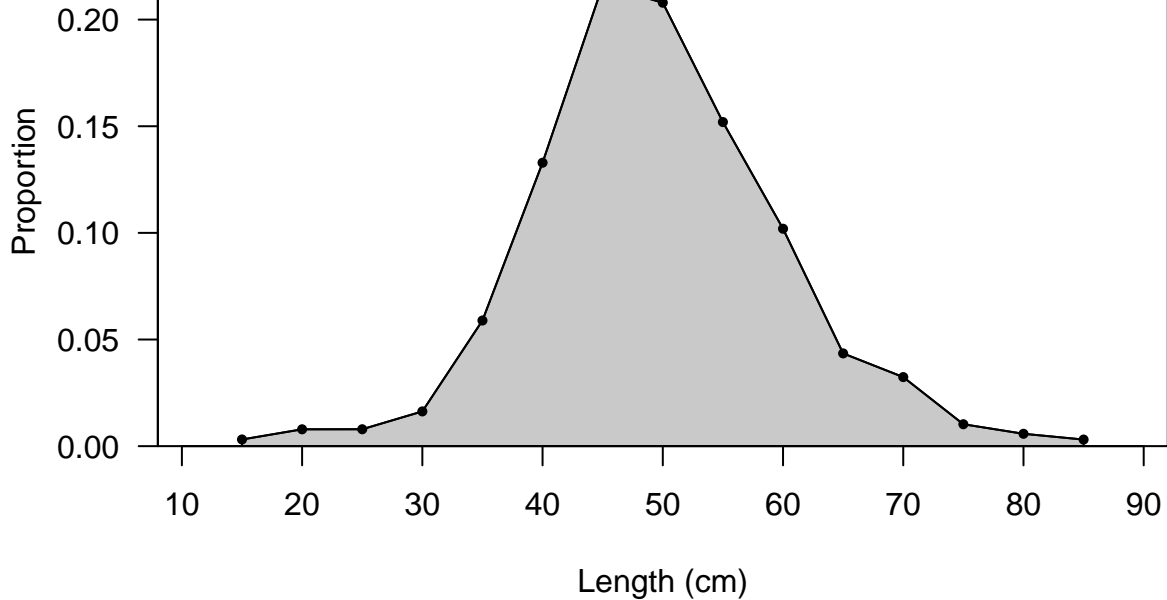


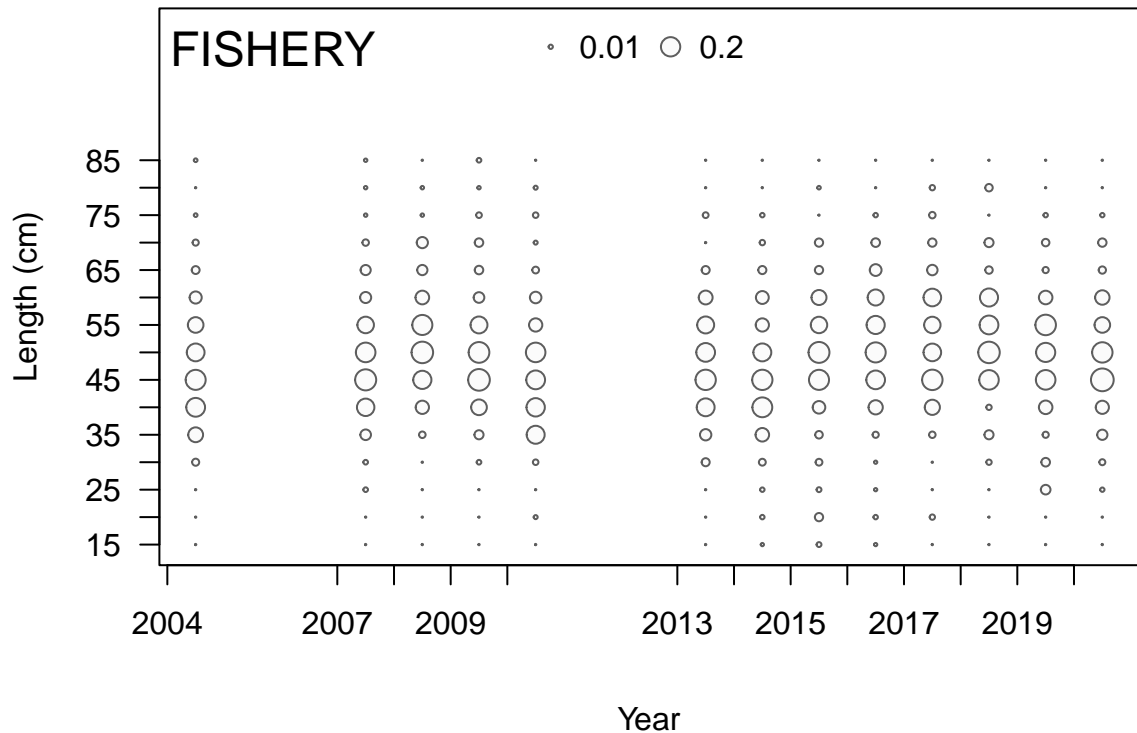




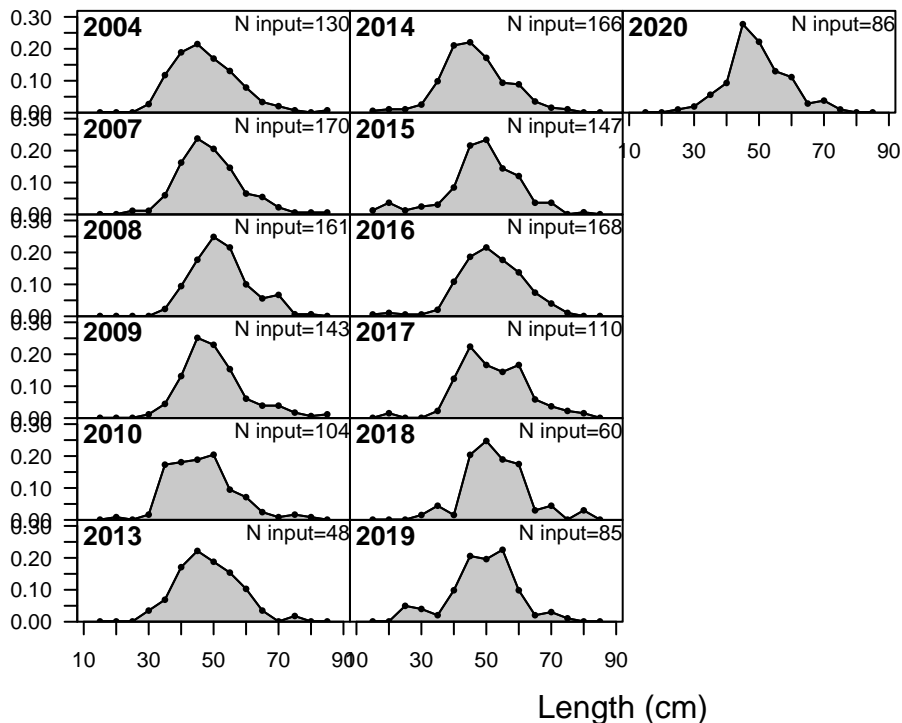
# FISHERY

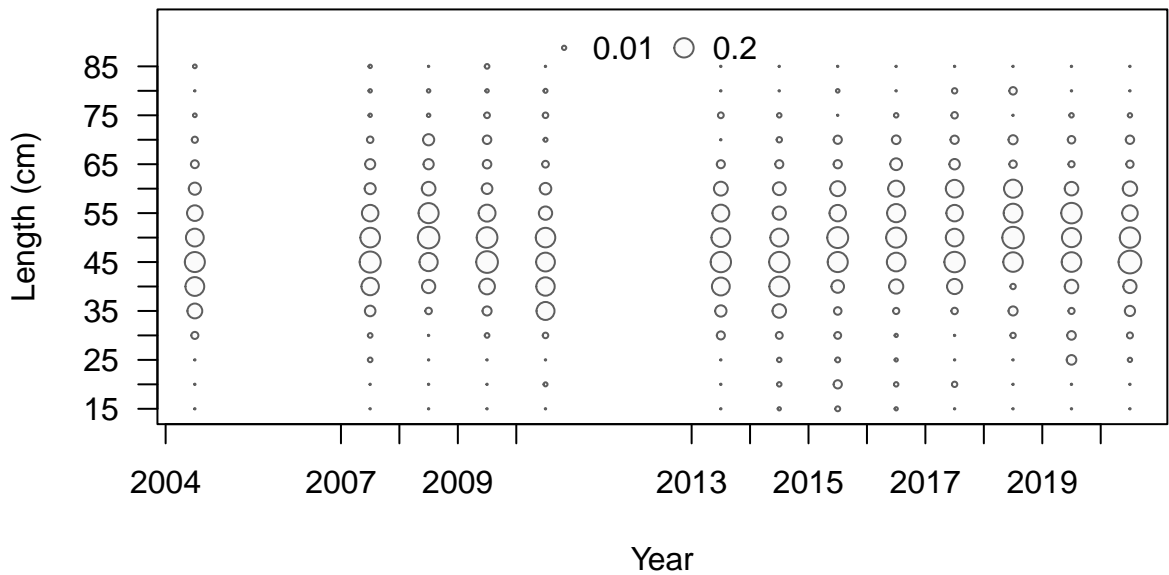
Sum of N input=1578



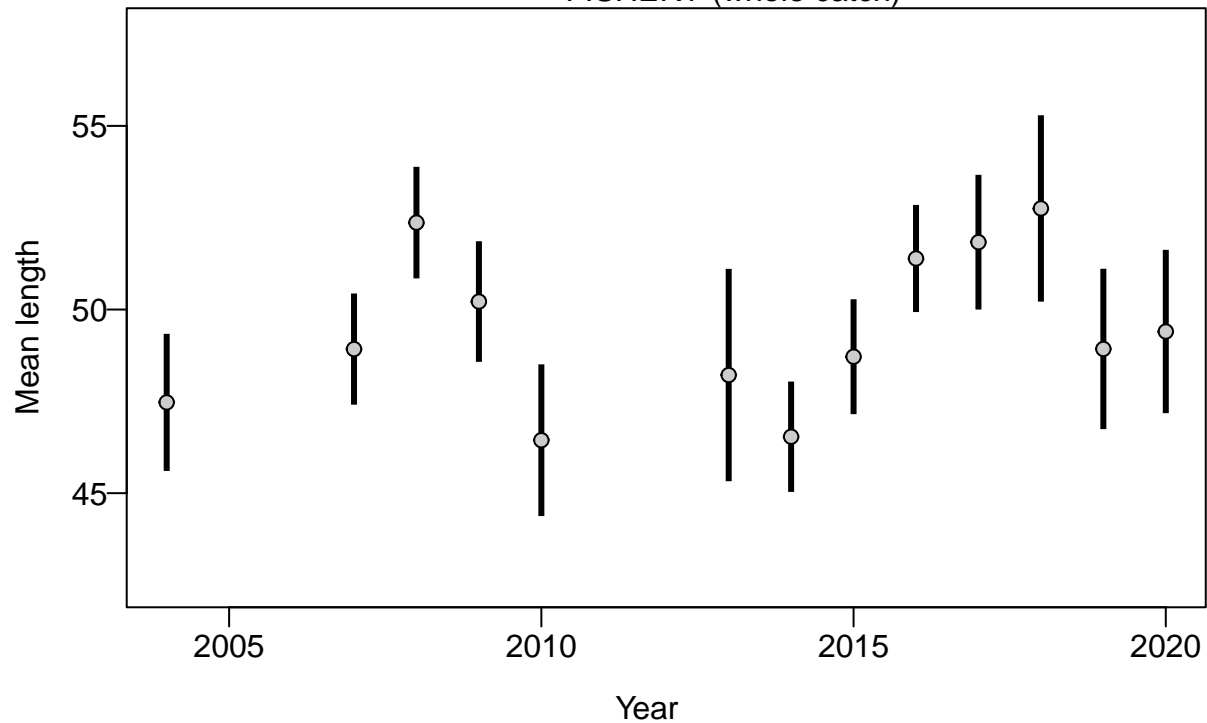


Proportion

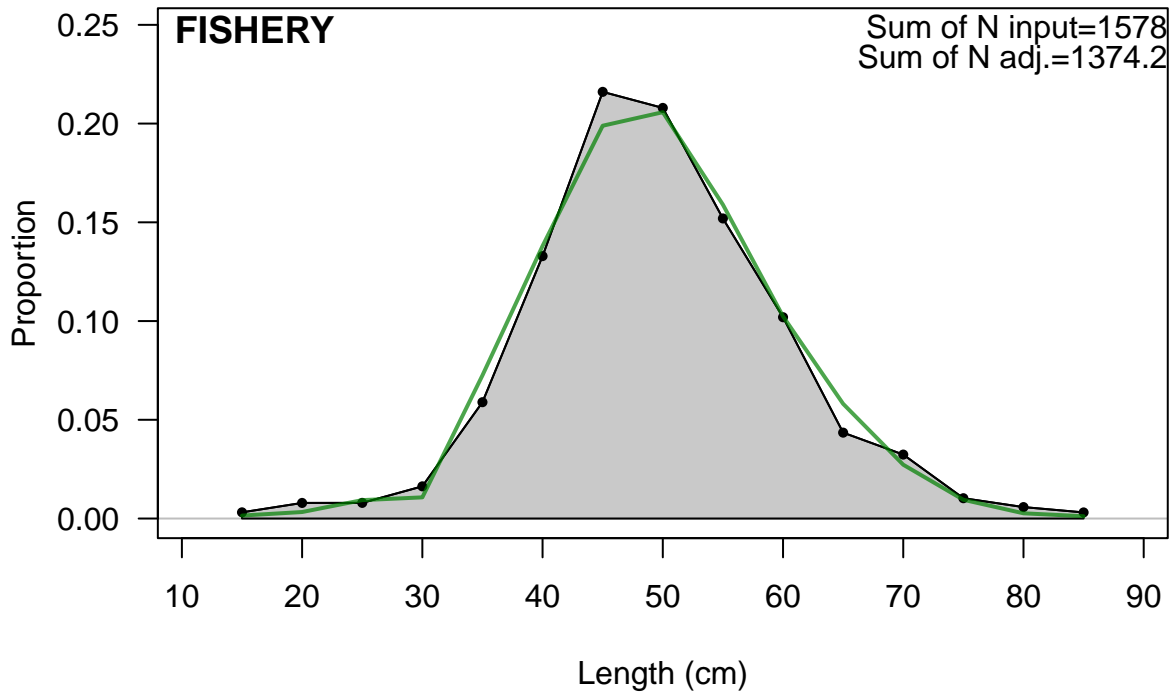


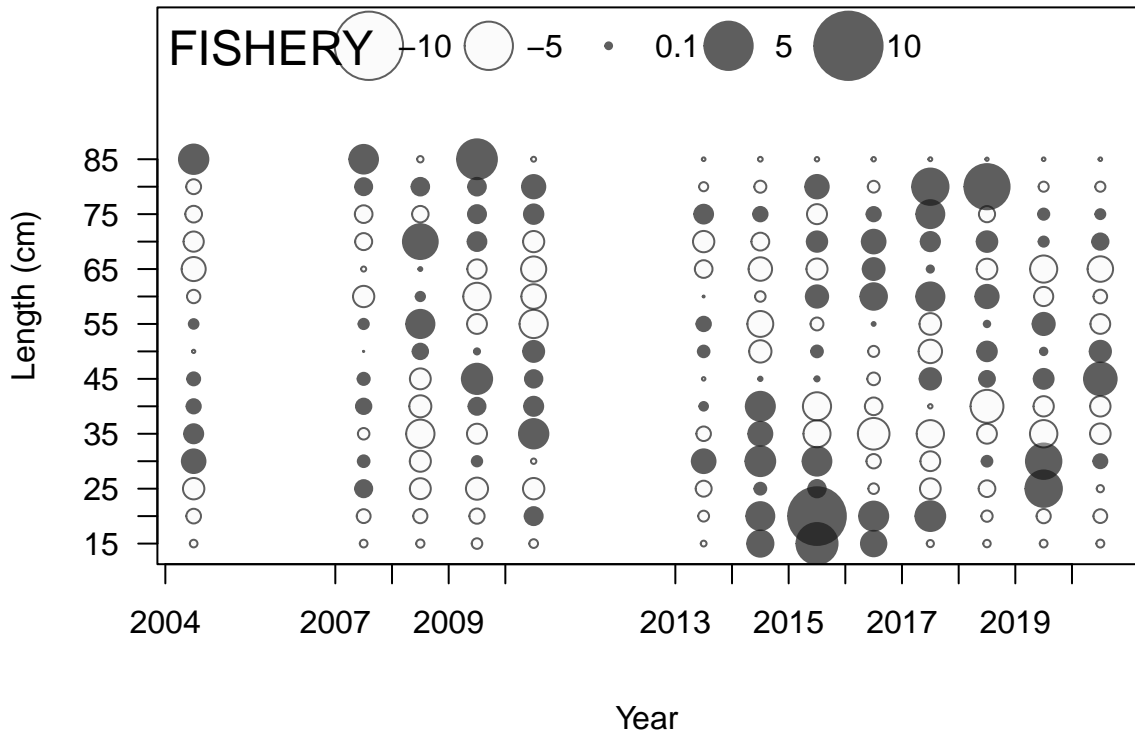


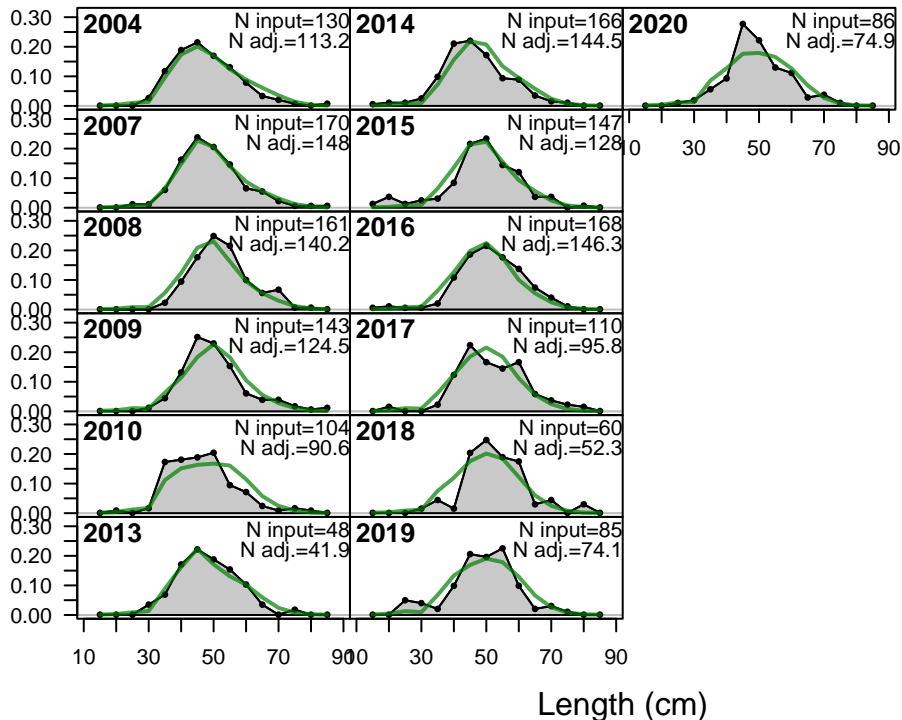
FISHERY (whole catch)

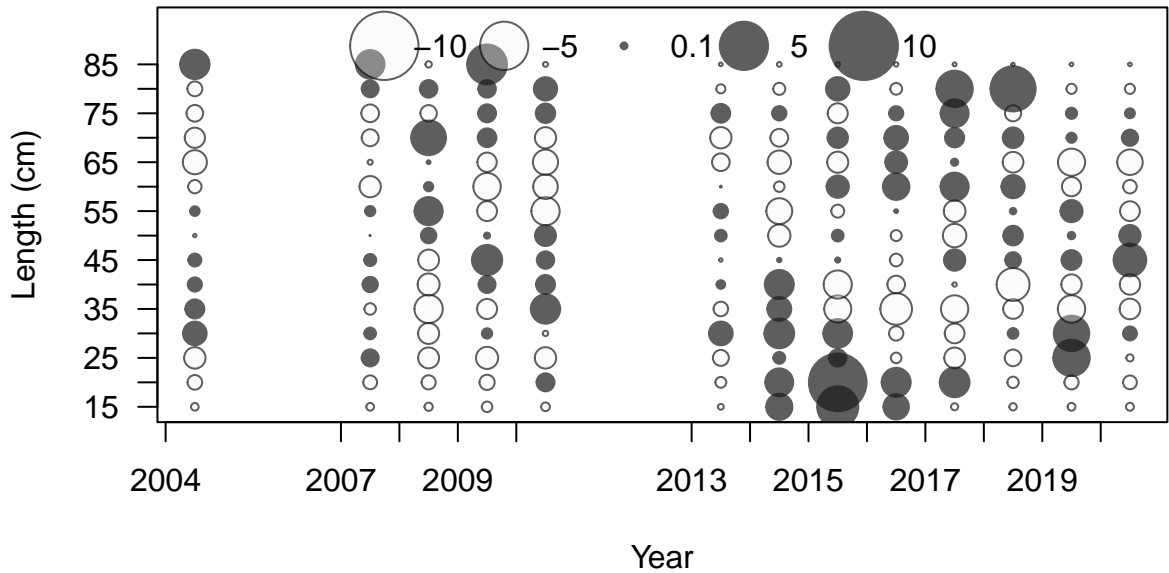




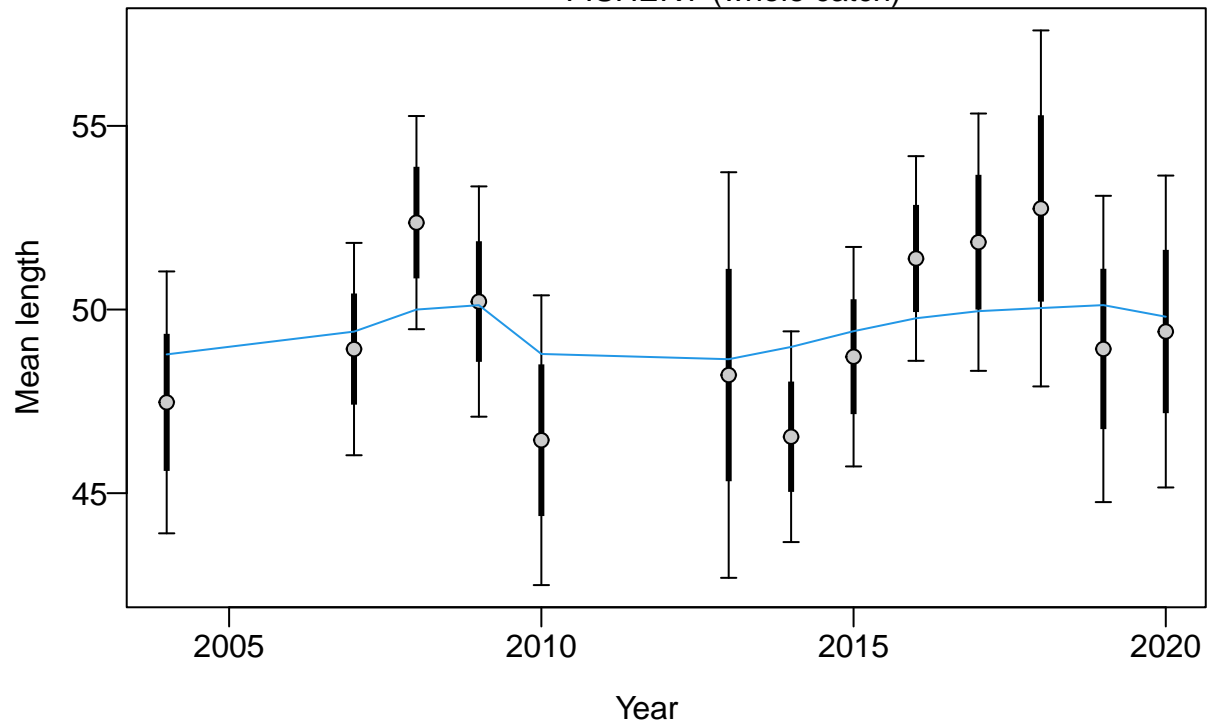


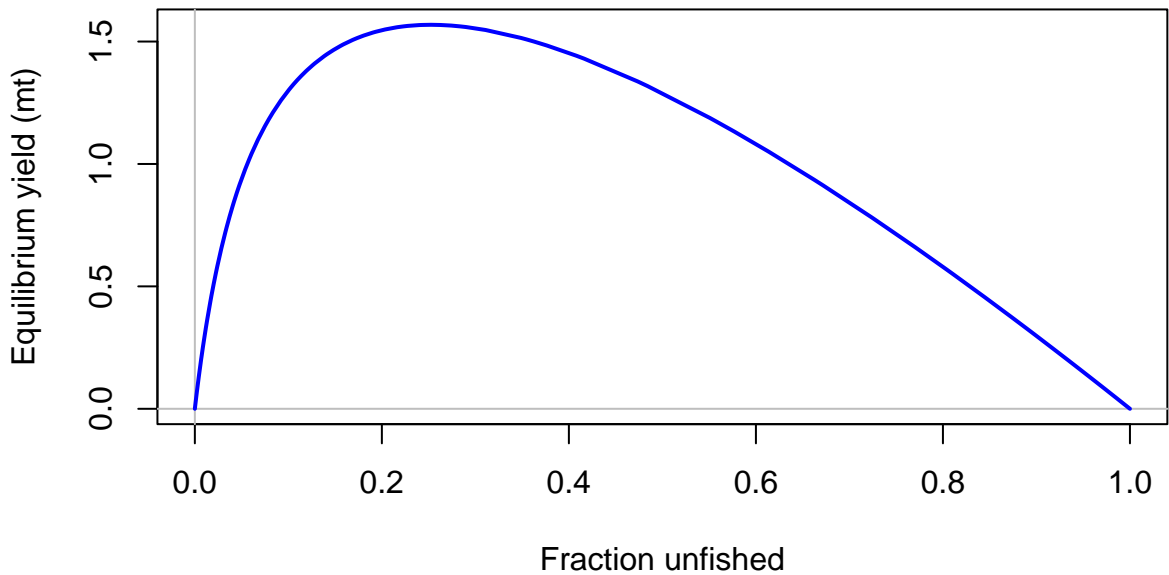


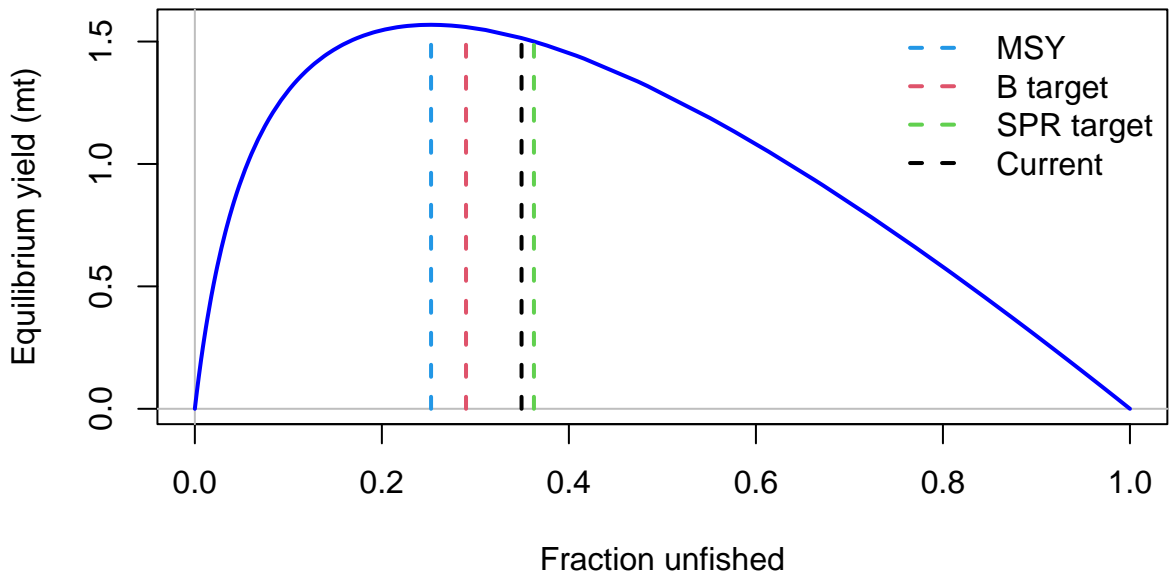


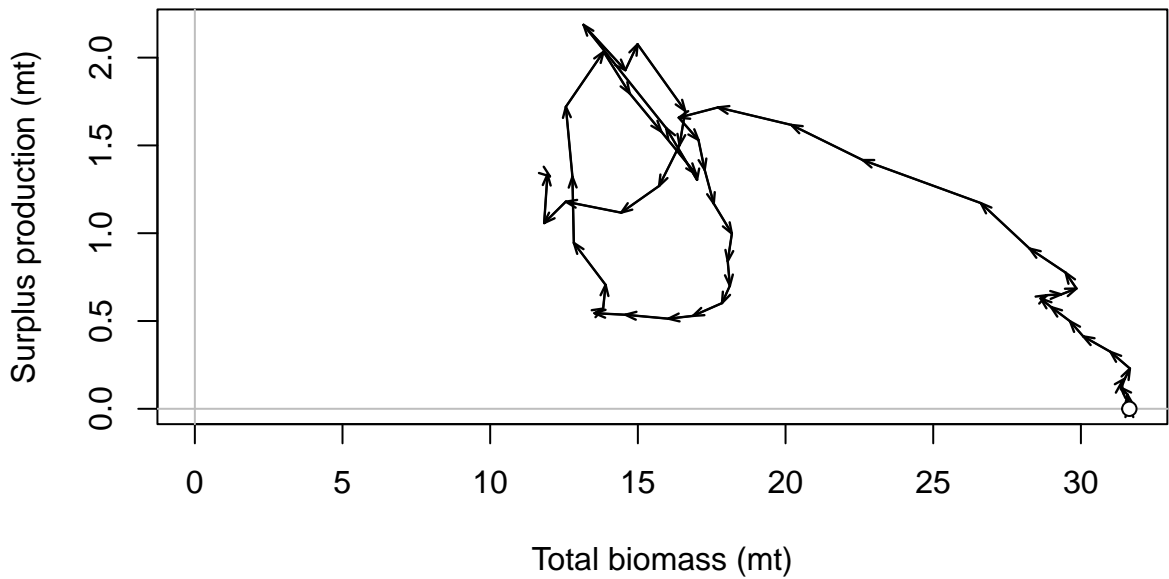


## FISHERY (whole catch)

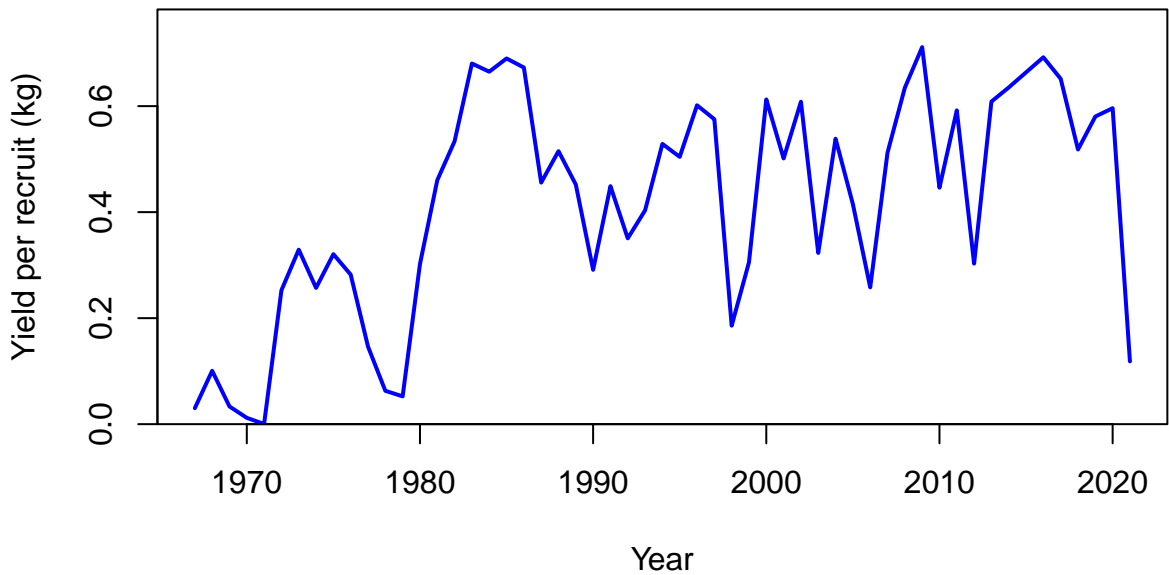


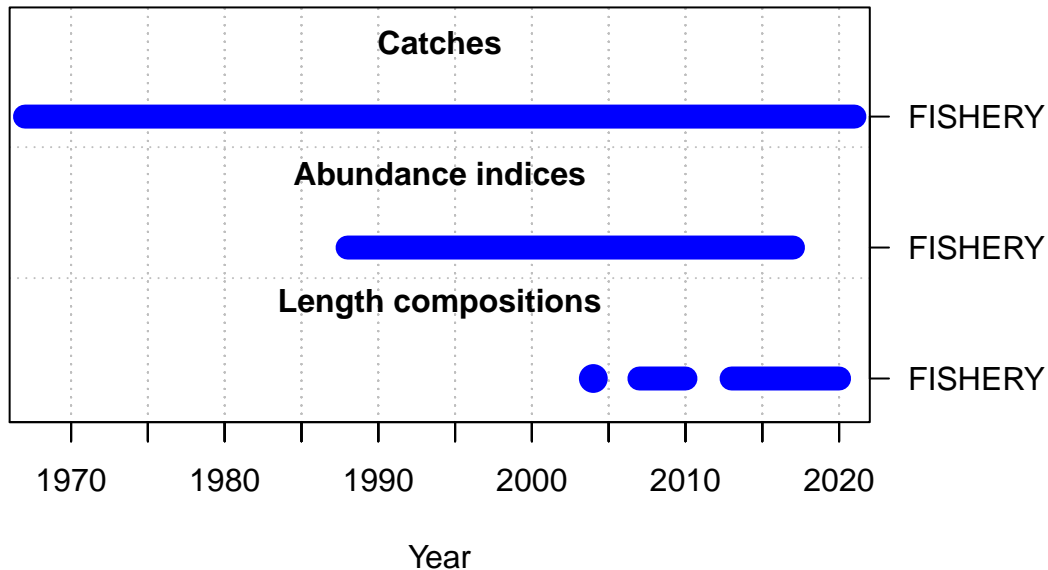


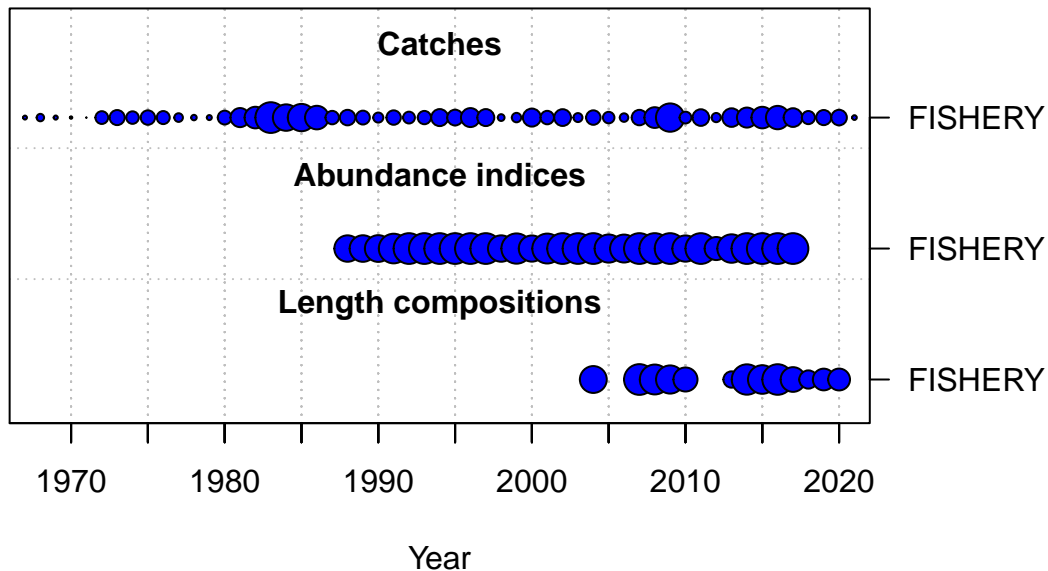




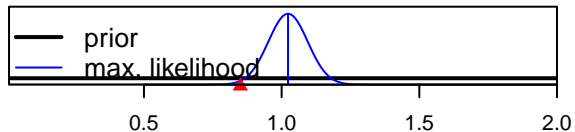




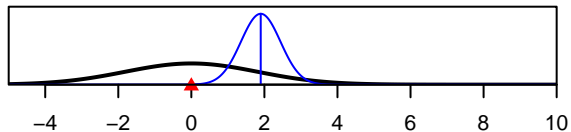




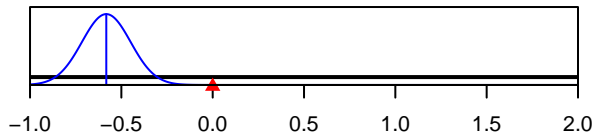
SR\_LN(R0)



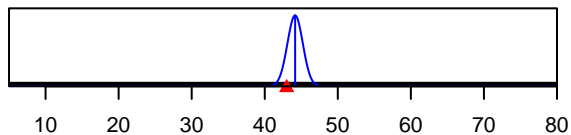
ln(DM\_theta)\_1



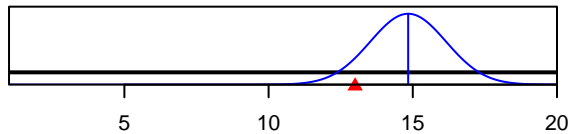
LnQ\_base\_FISHERY(1)



Size\_inflection\_FISHERY(1)



Size\_95%width\_FISHERY(1)



Parameter value