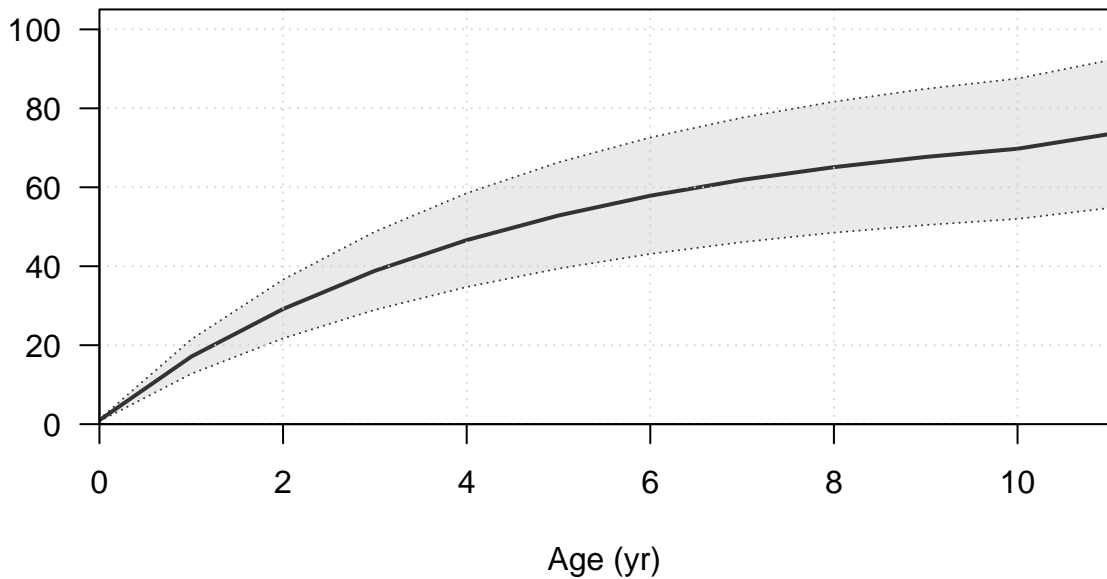
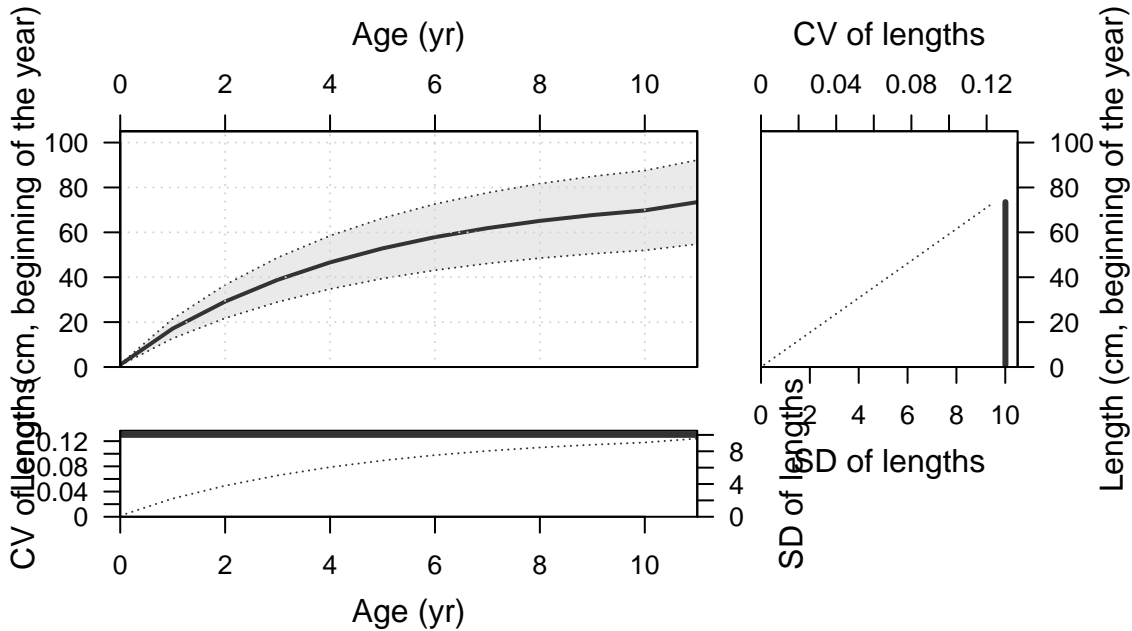
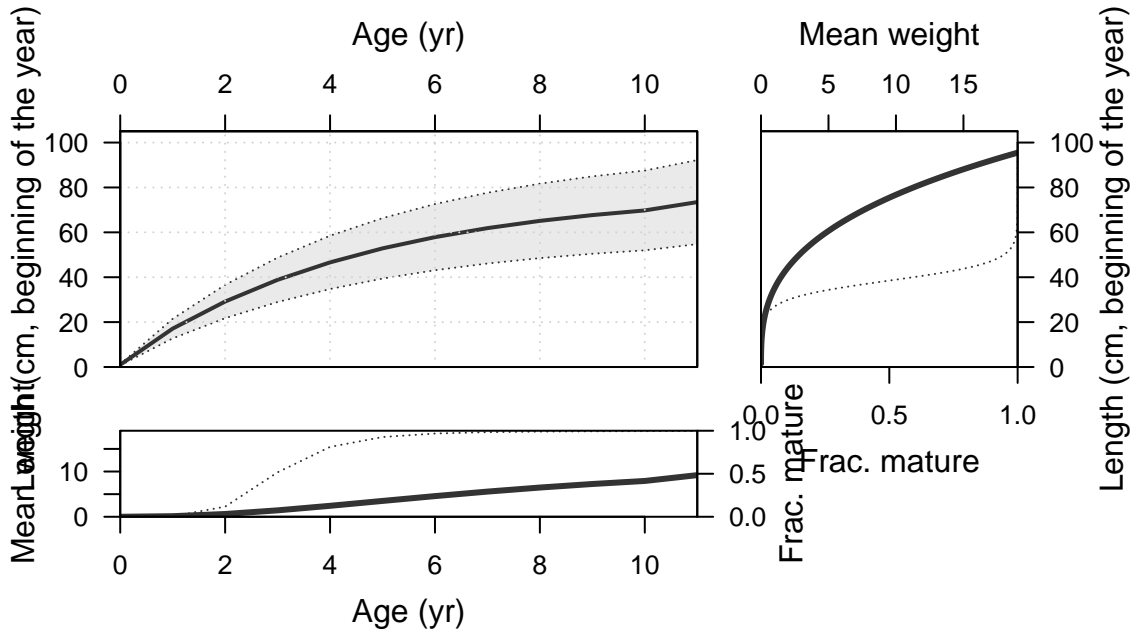


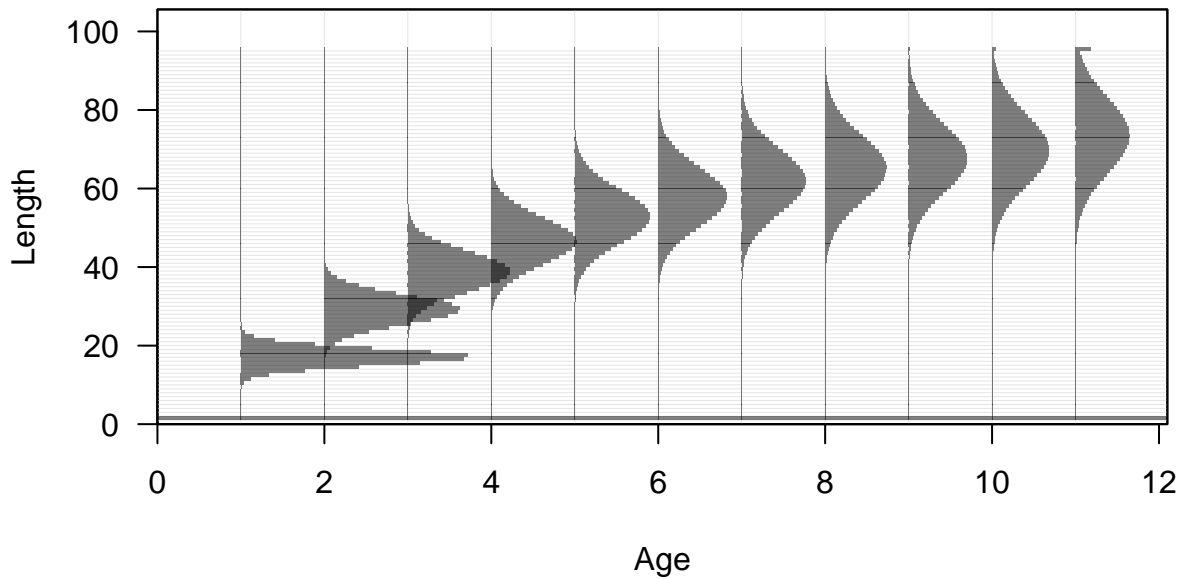
Plots created using the 'r4ss' package in R  
Stock Synthesis version: 3.30.19.0  
StartTime: Mon Jul 11 16:05:39 2022  
Data\_File: data.ss  
Control\_File: control.ss

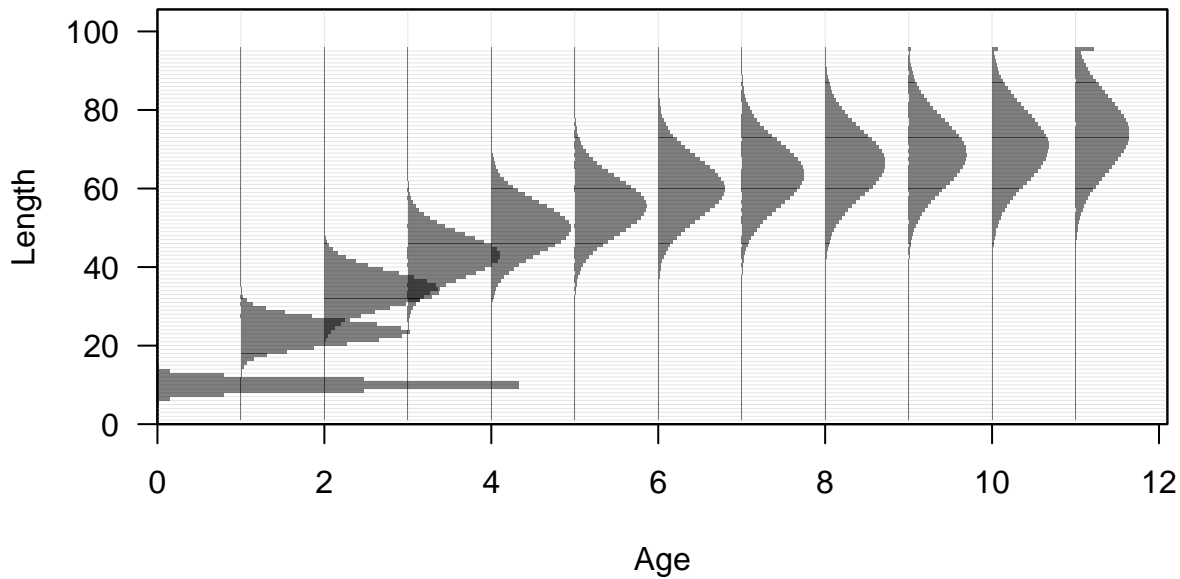
Length (cm, beginning of the year)







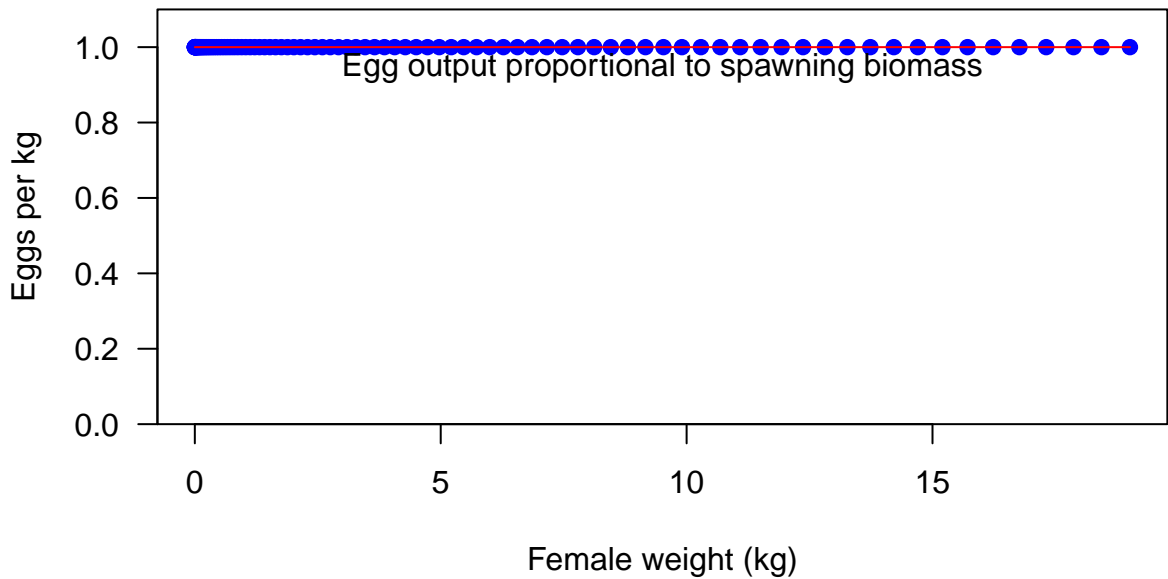












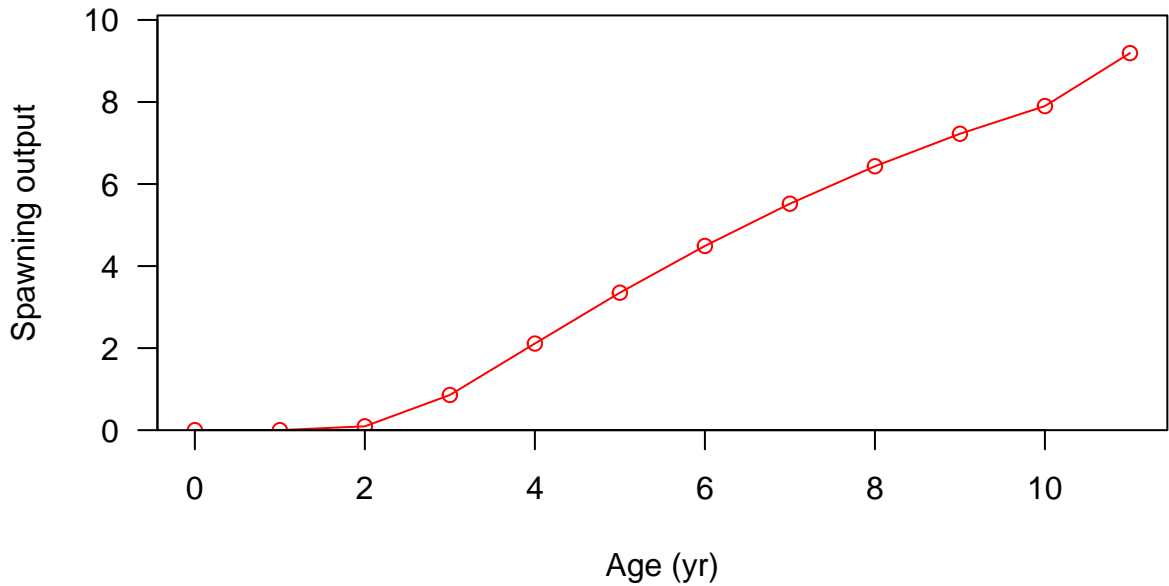
Fecundity



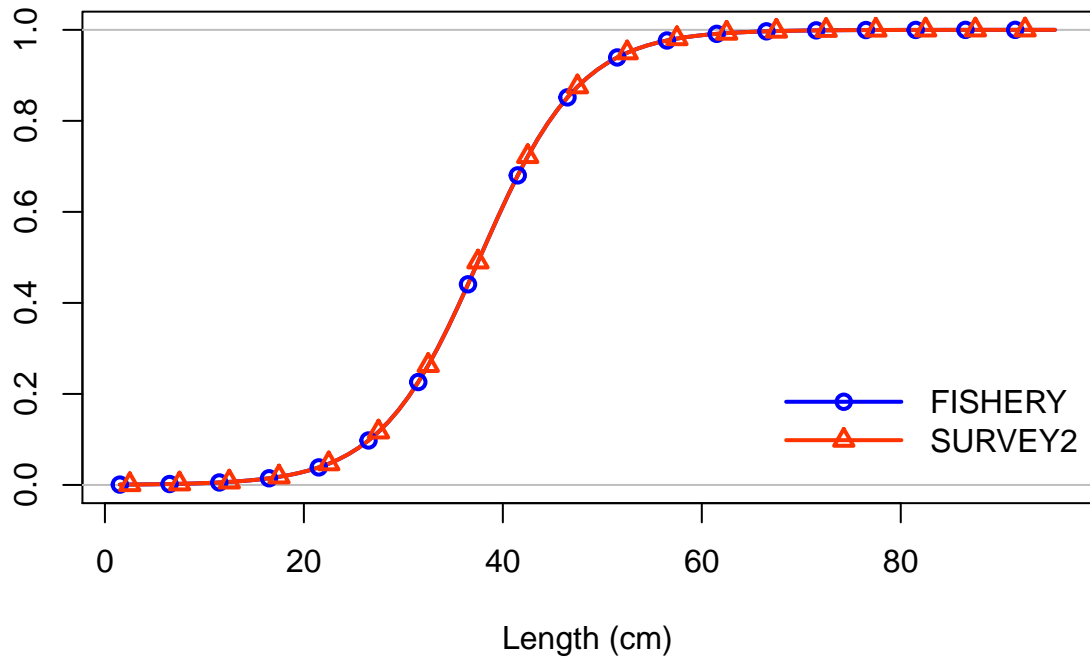


Spawning output

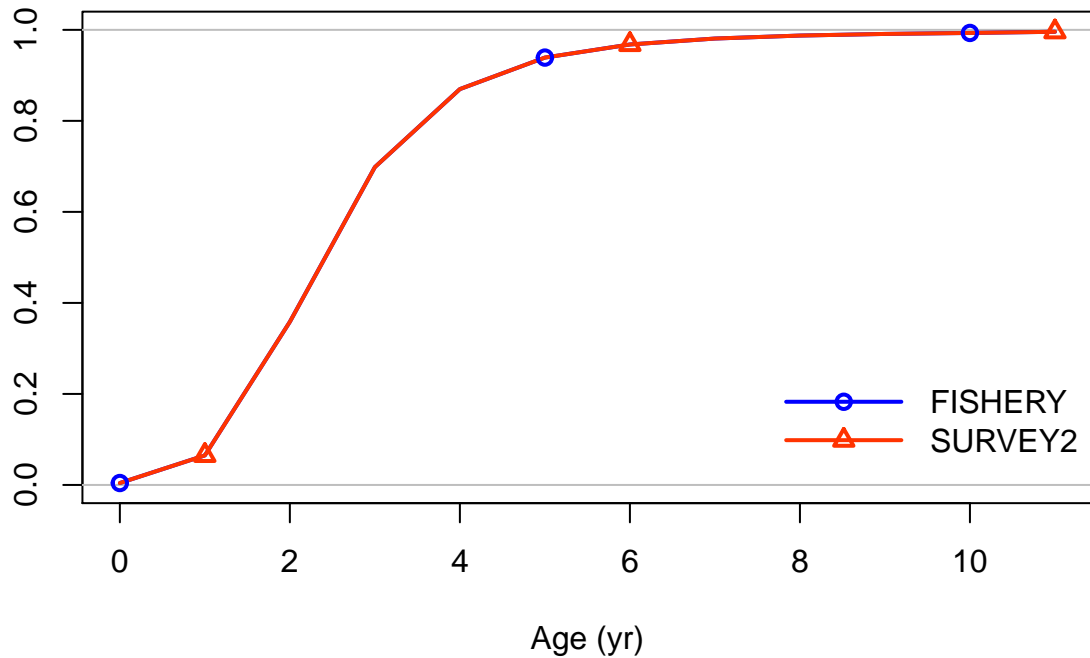




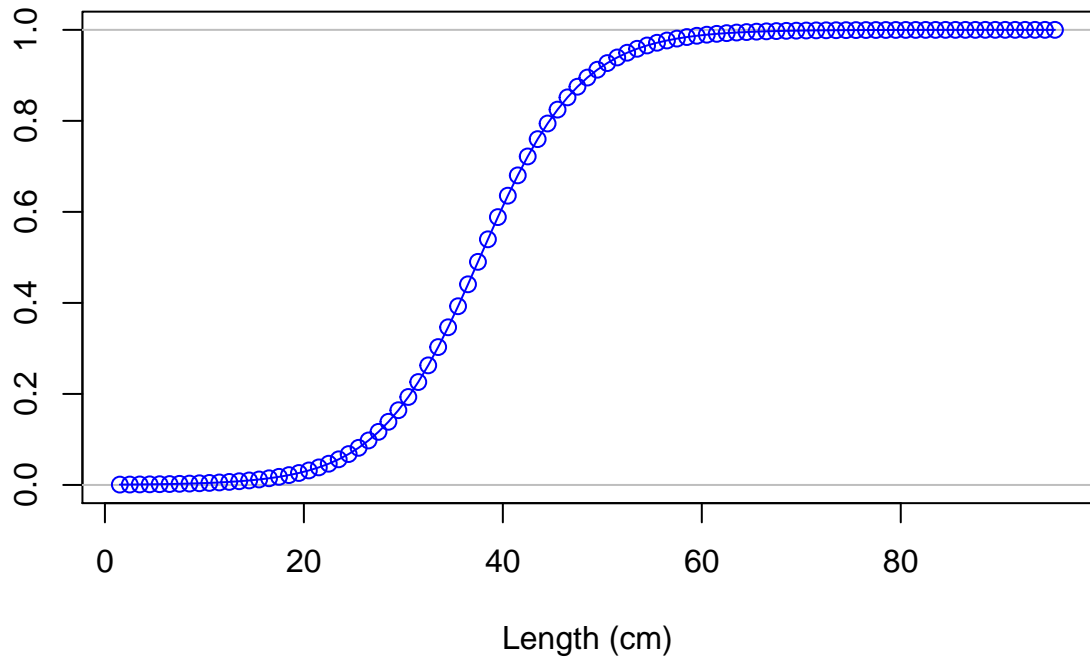
Selectivity



Selectivity

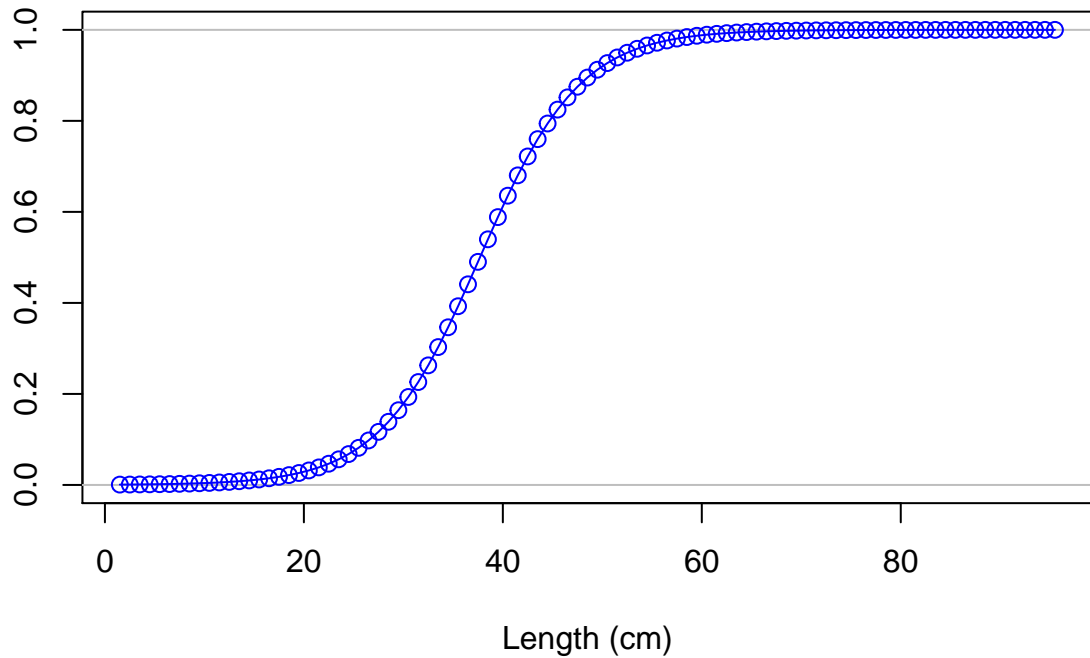


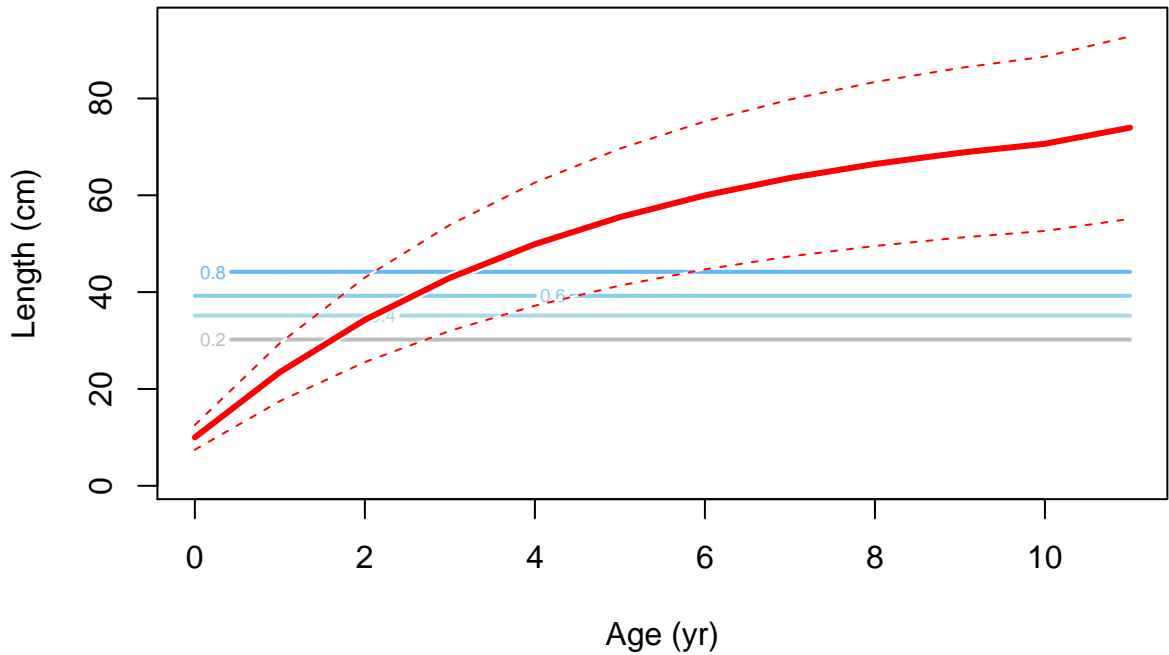
Selectivity

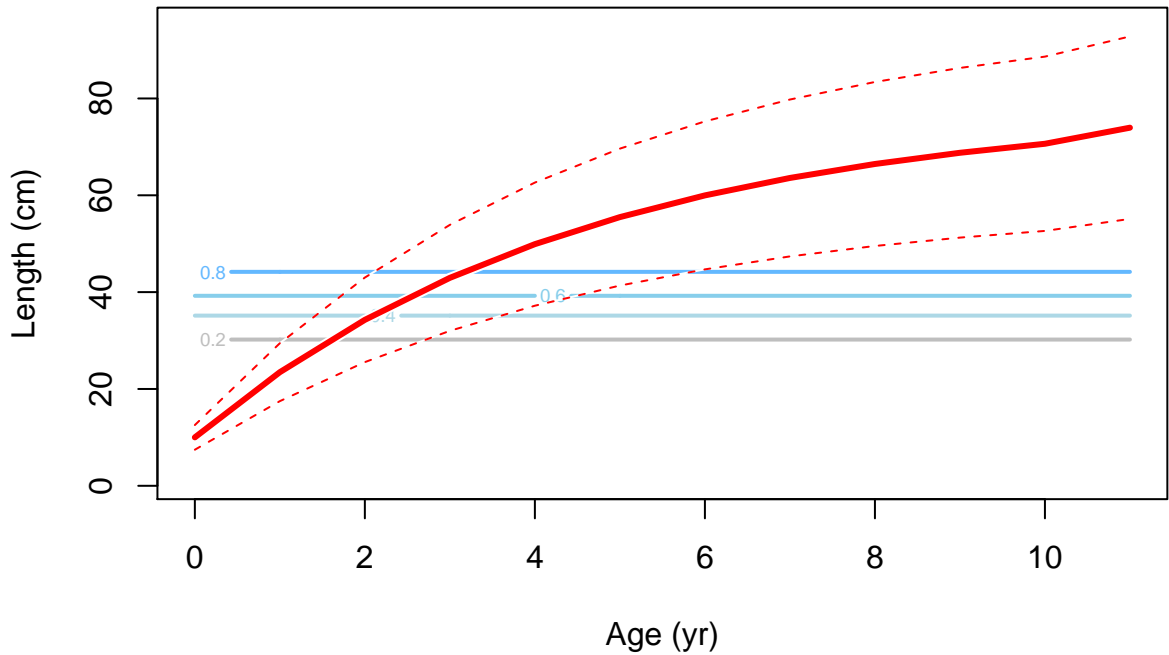




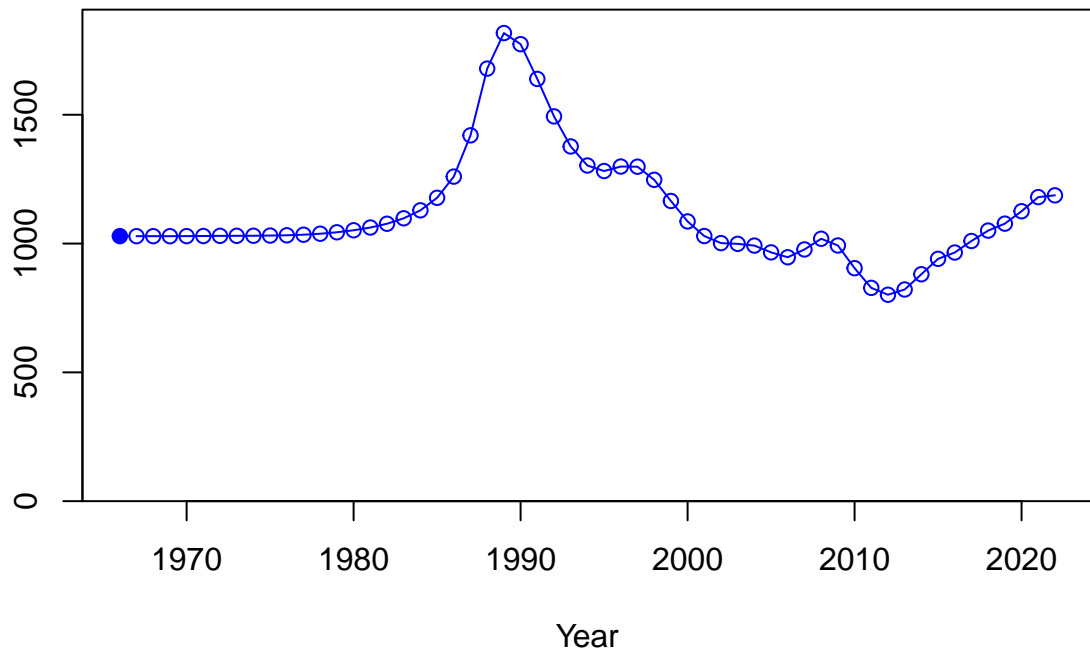
Selectivity



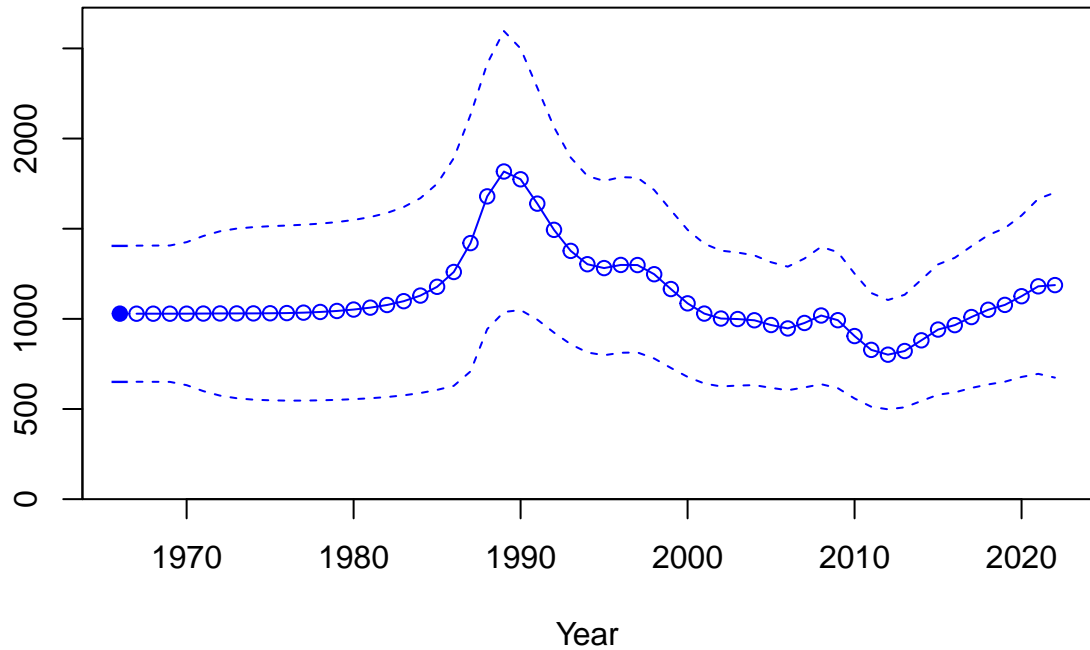




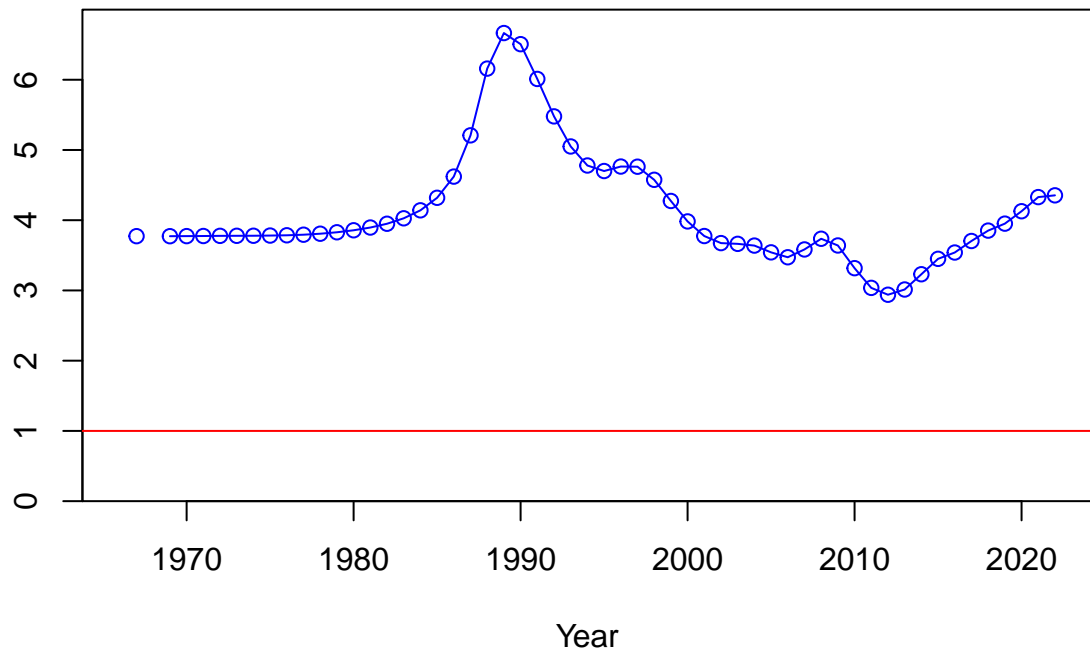
Spawning biomass (mt)



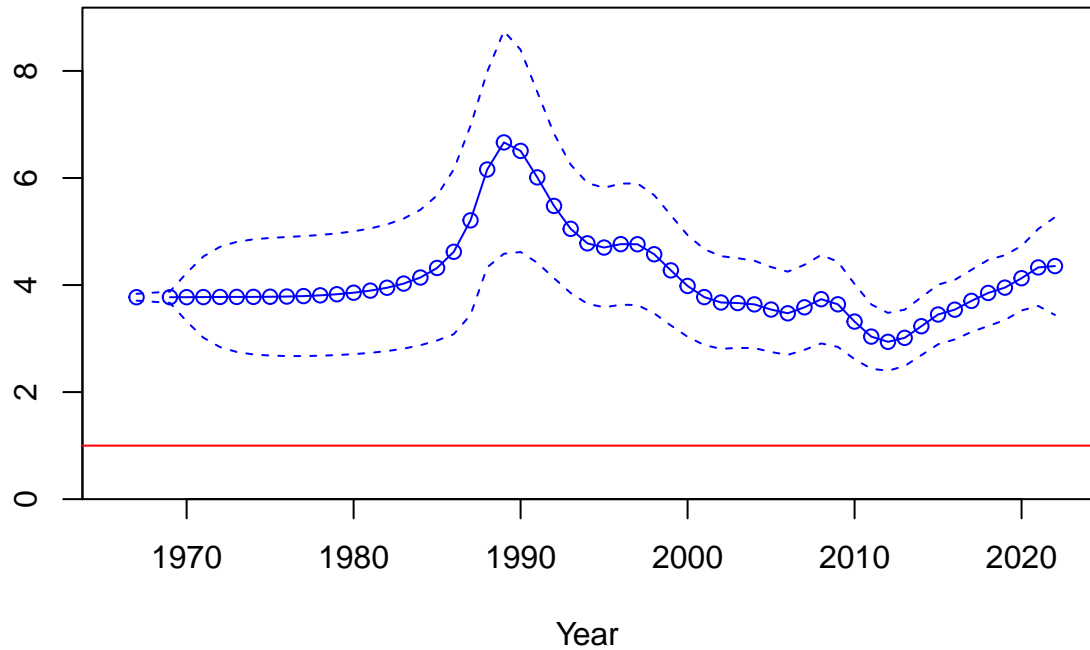
Spawning biomass (mt)

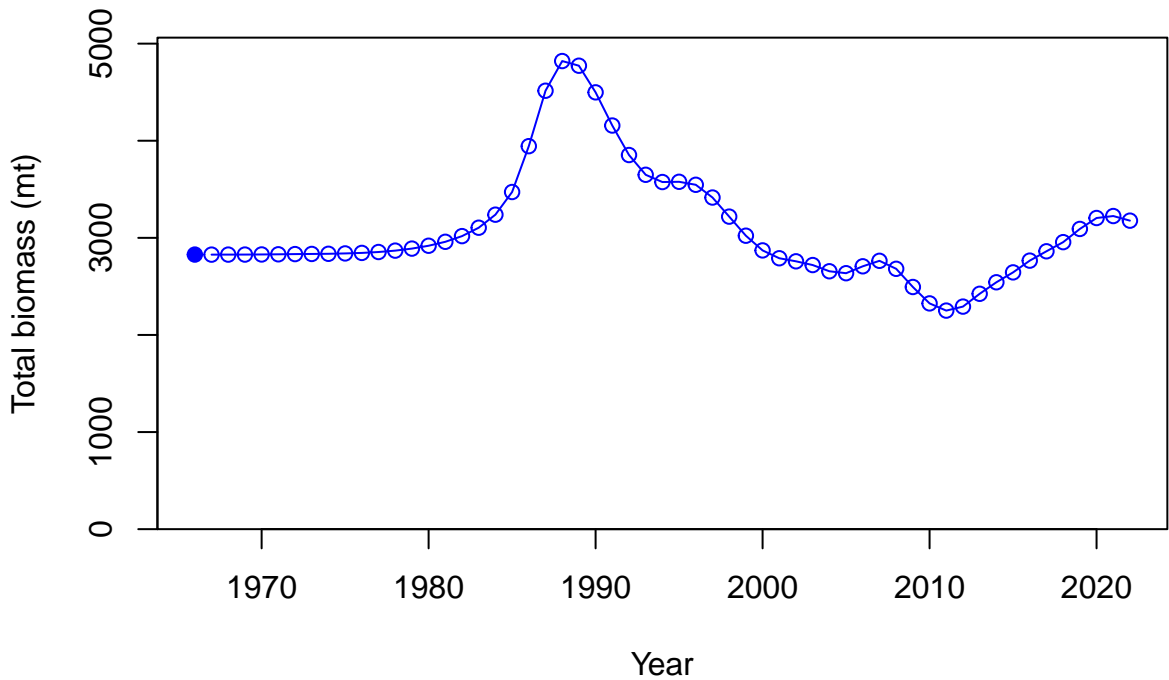


Relative spawning biomass:  $B/B_{MSY}$

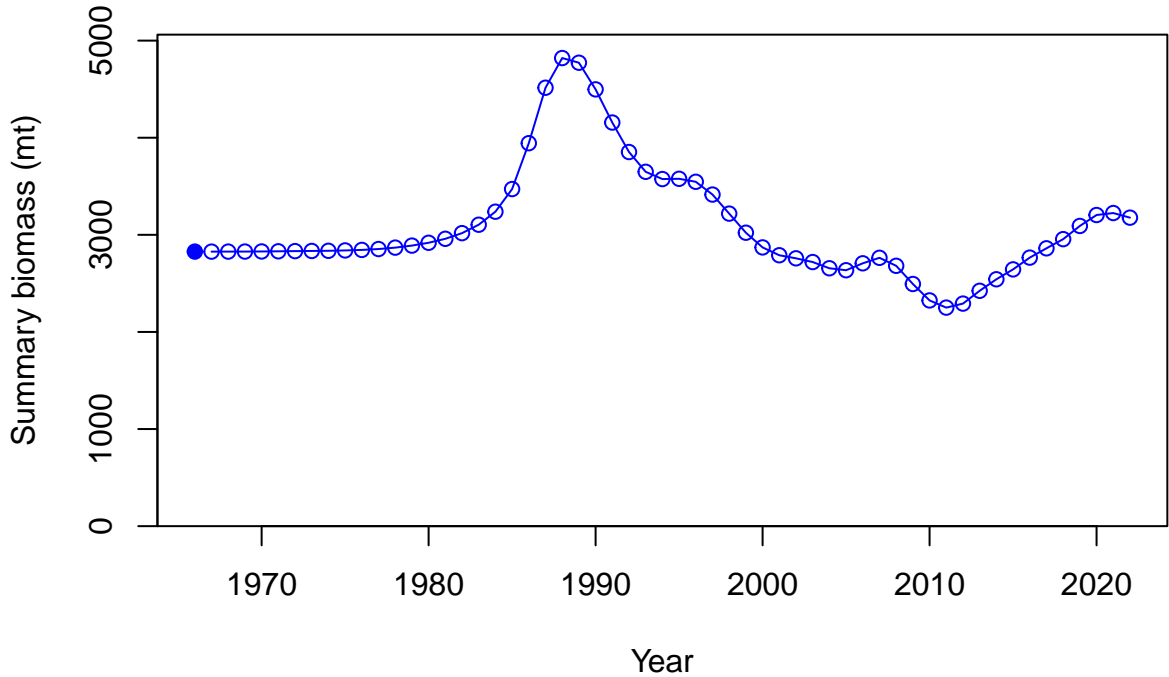


Relative spawning biomass:  $B/B_{MSY}$

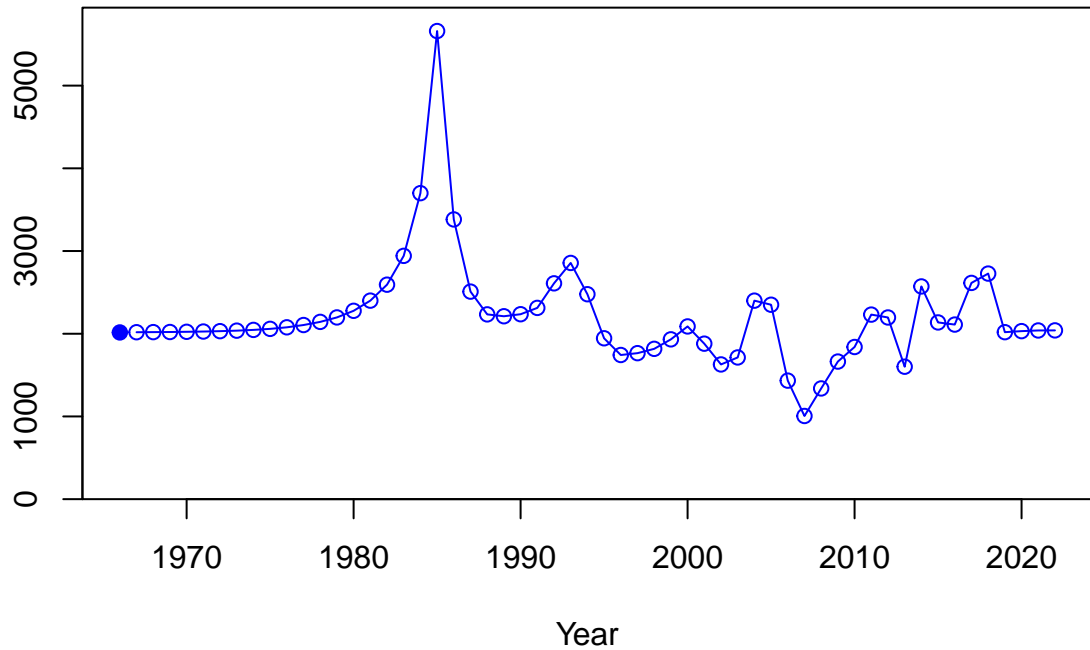




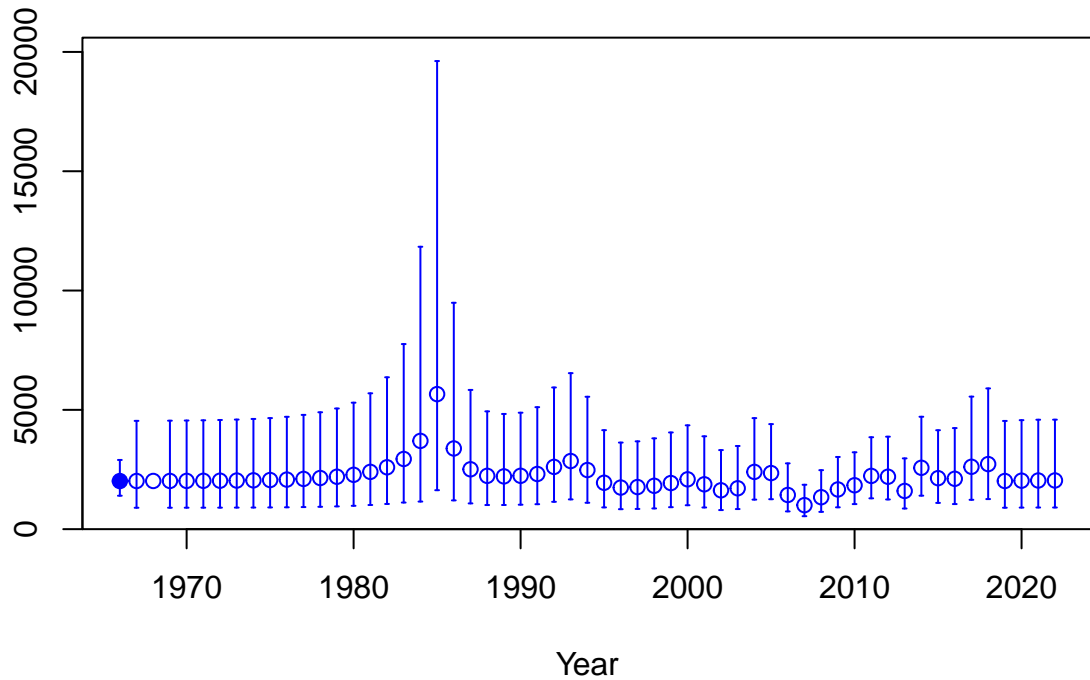




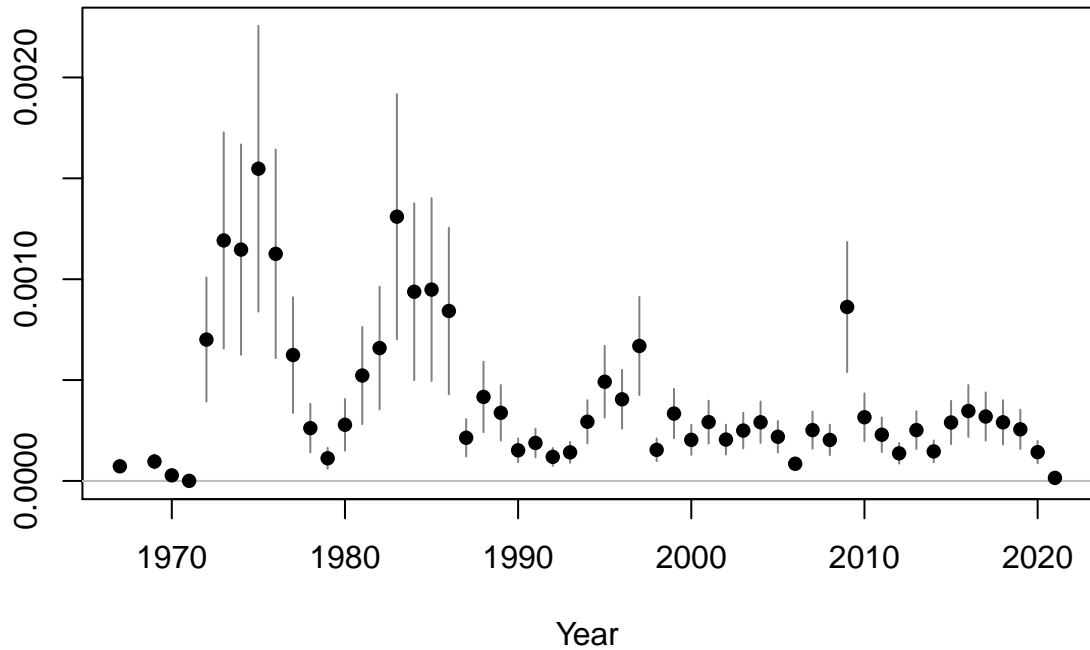
Age-0 recruits (1,000s)

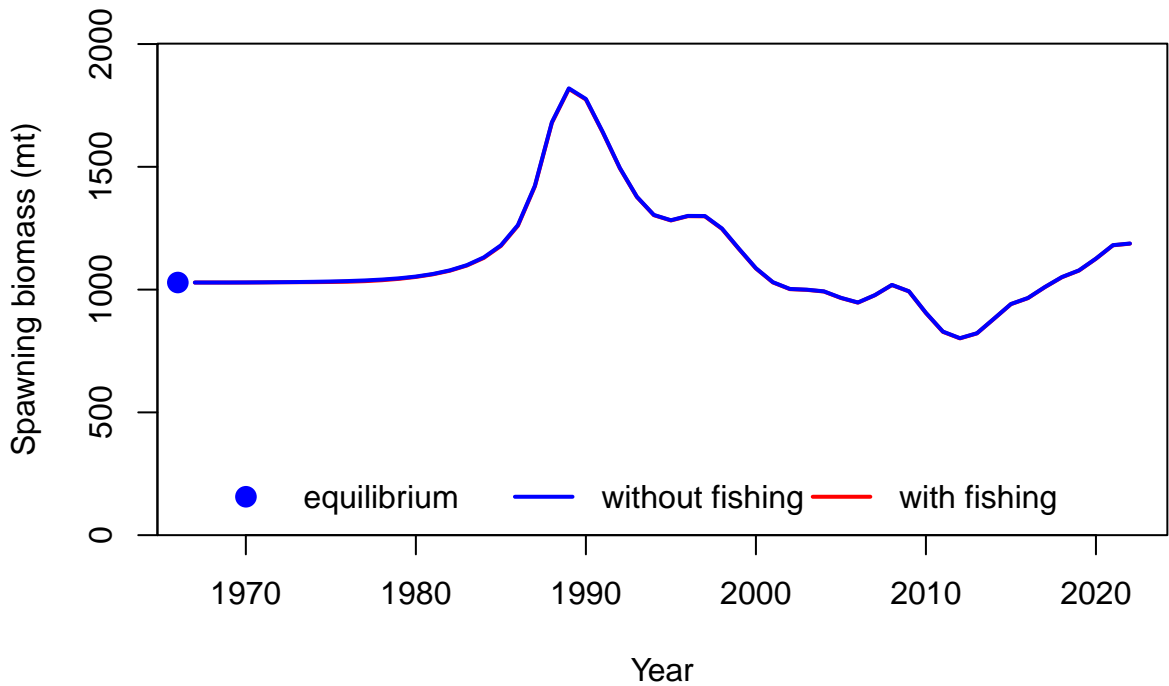


Age-0 recruits (1,000s)

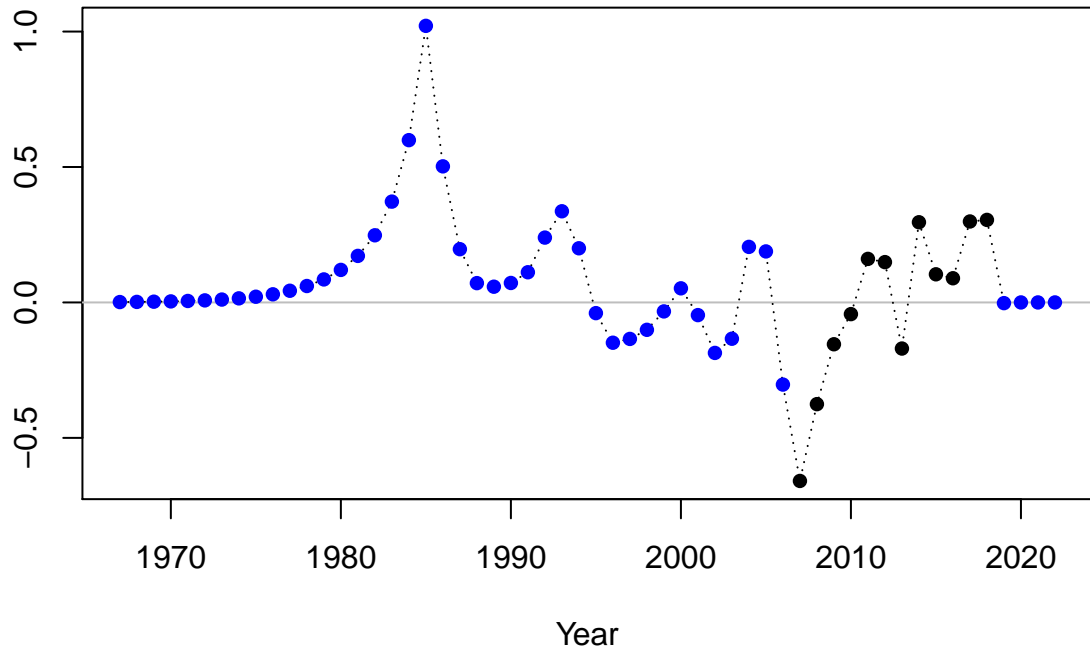


Summary Fishing Mortality

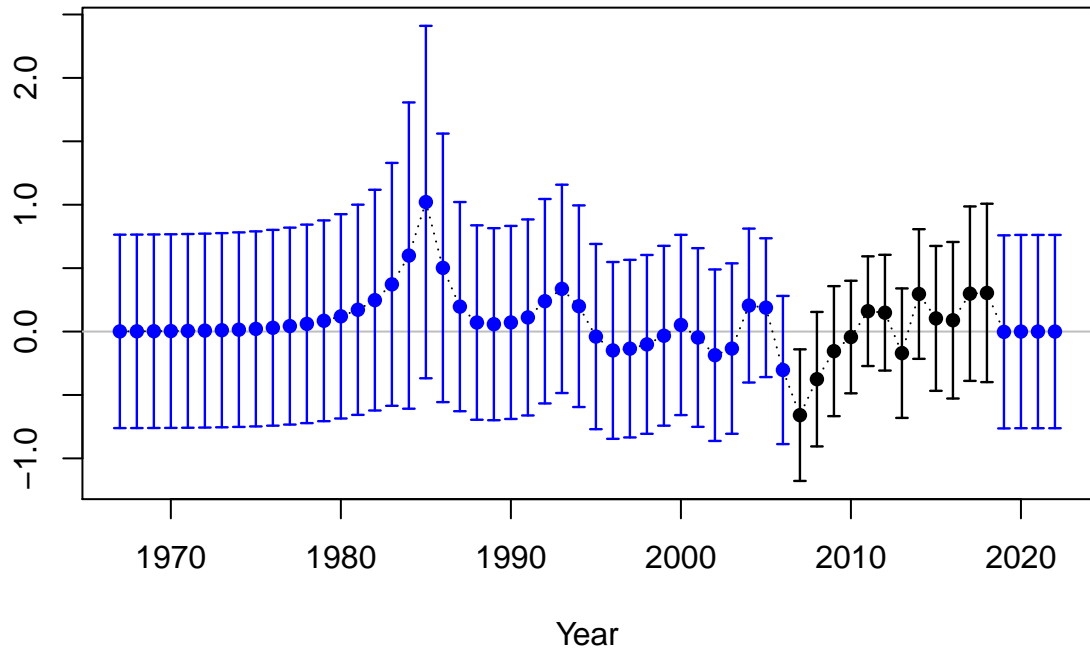




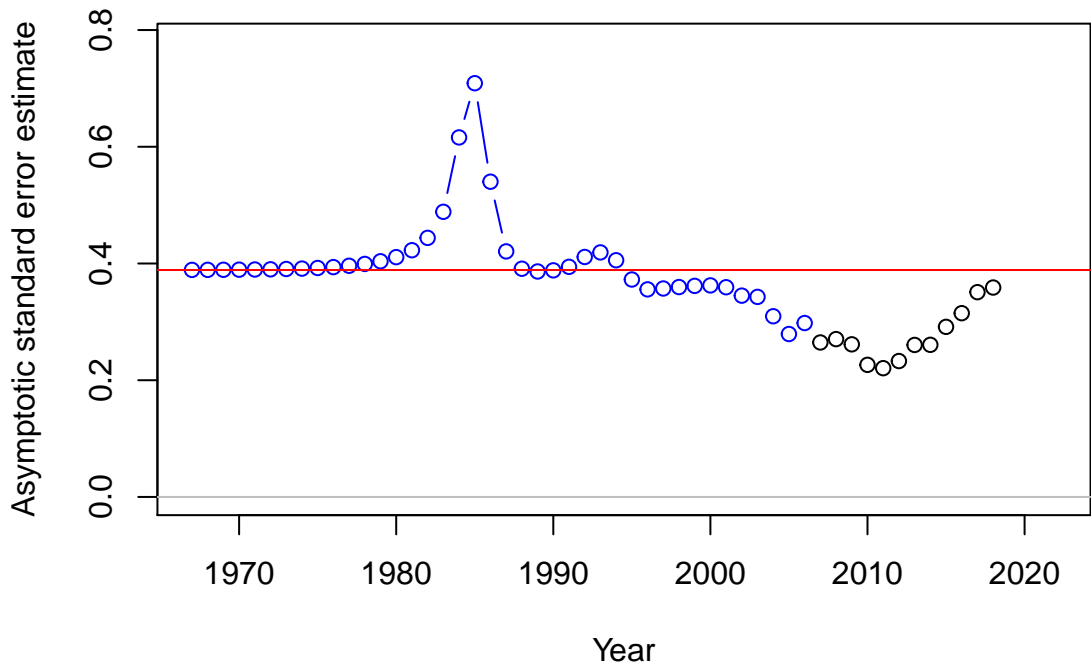
Log recruitment deviation



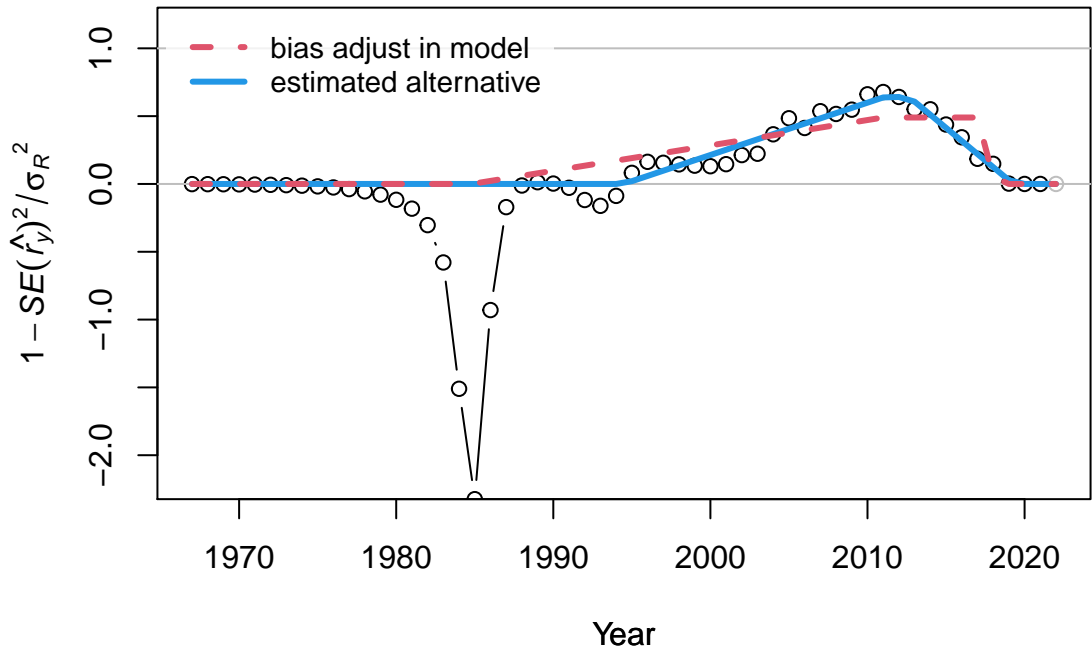
Log recruitment deviation

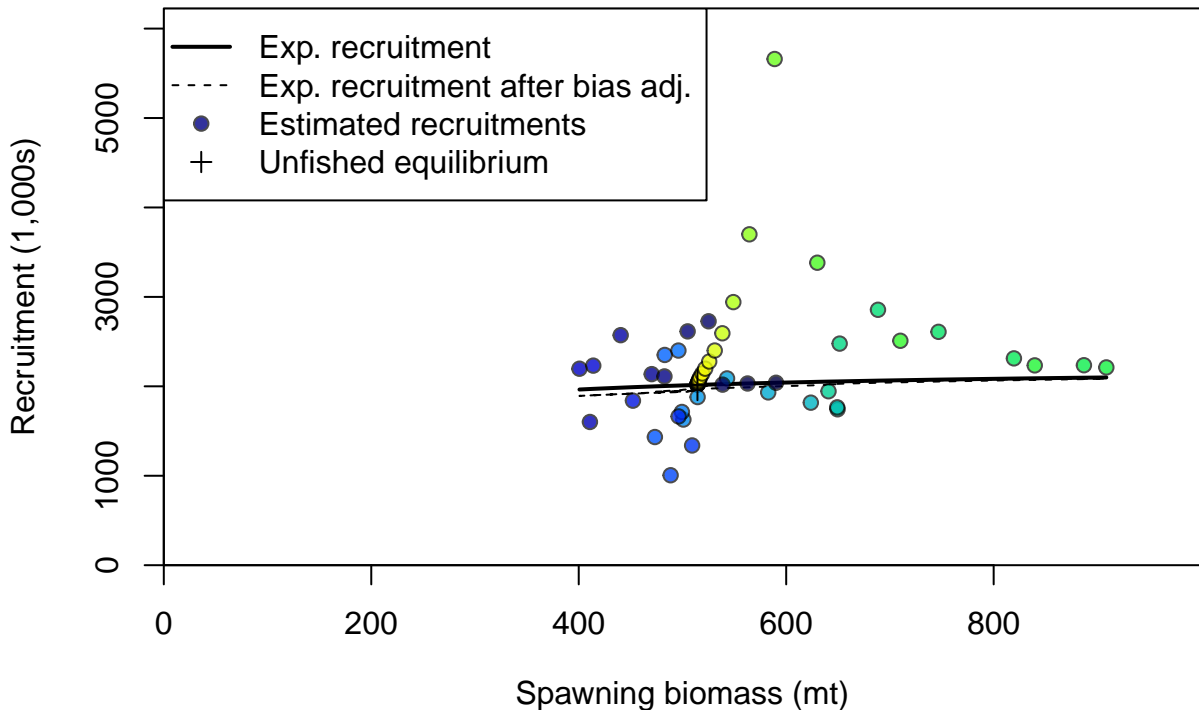


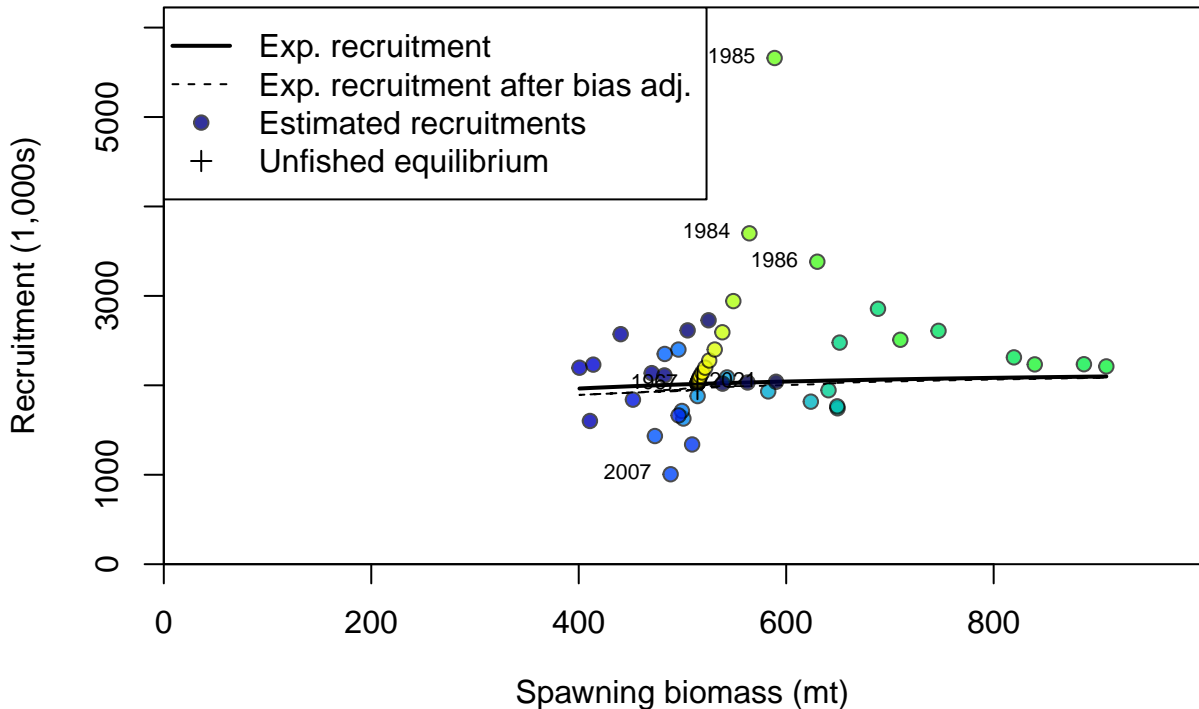
## Recruitment deviation variance



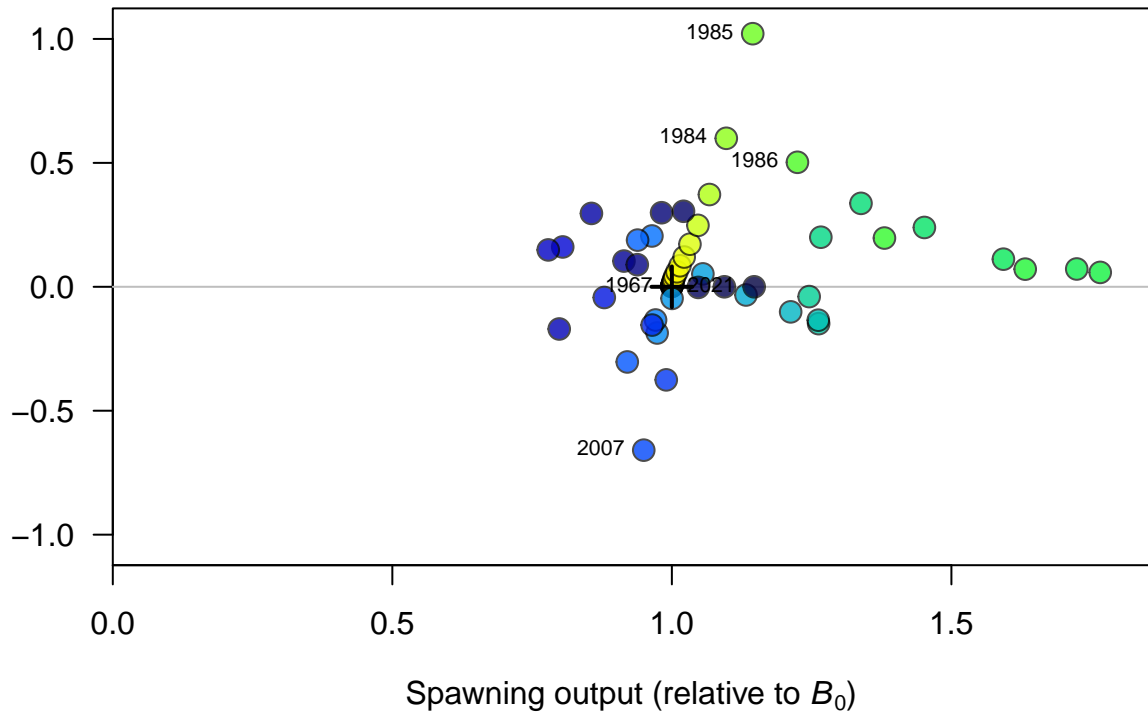


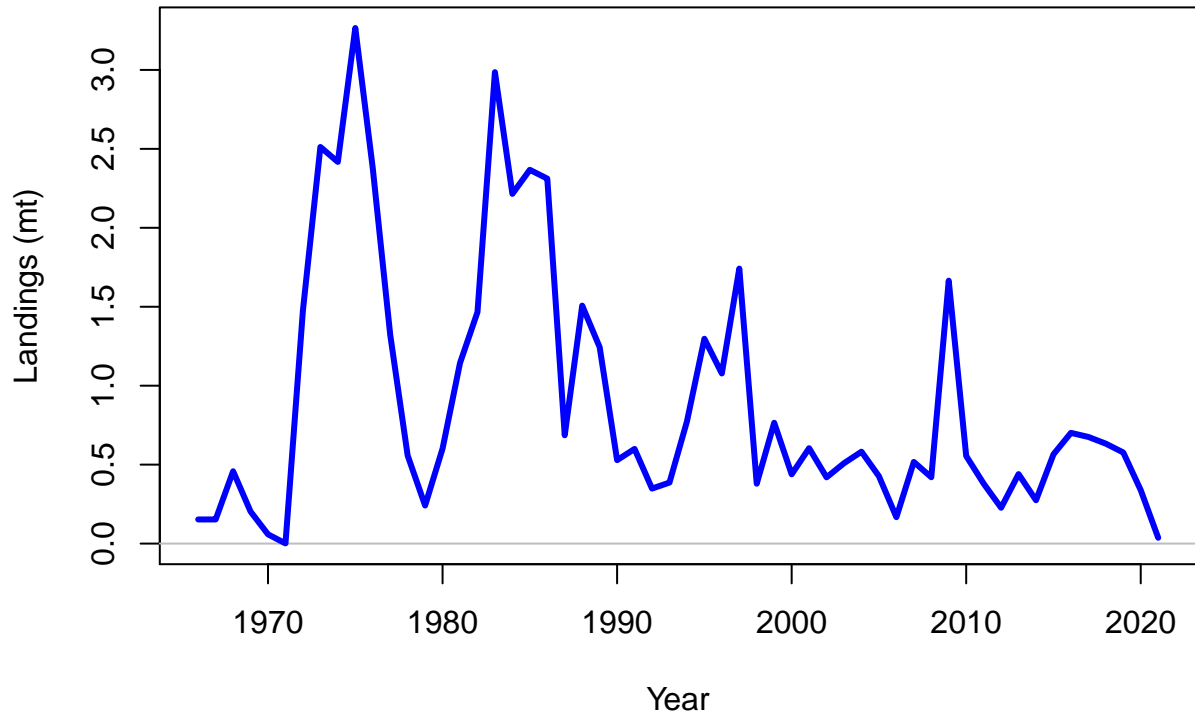


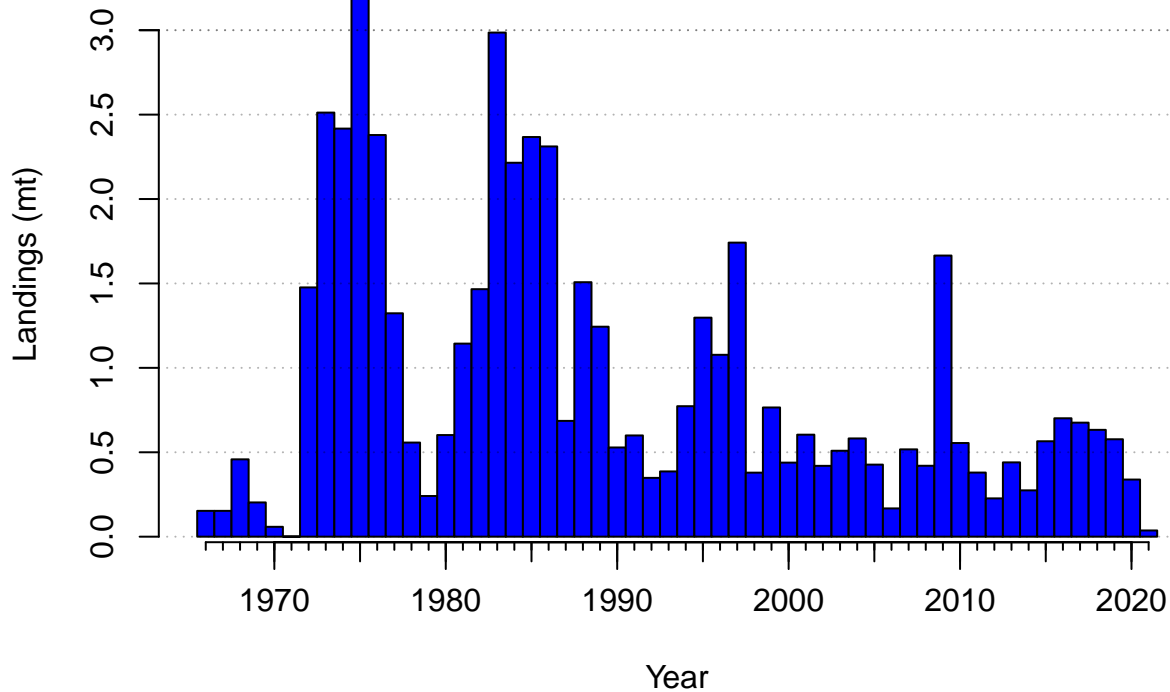




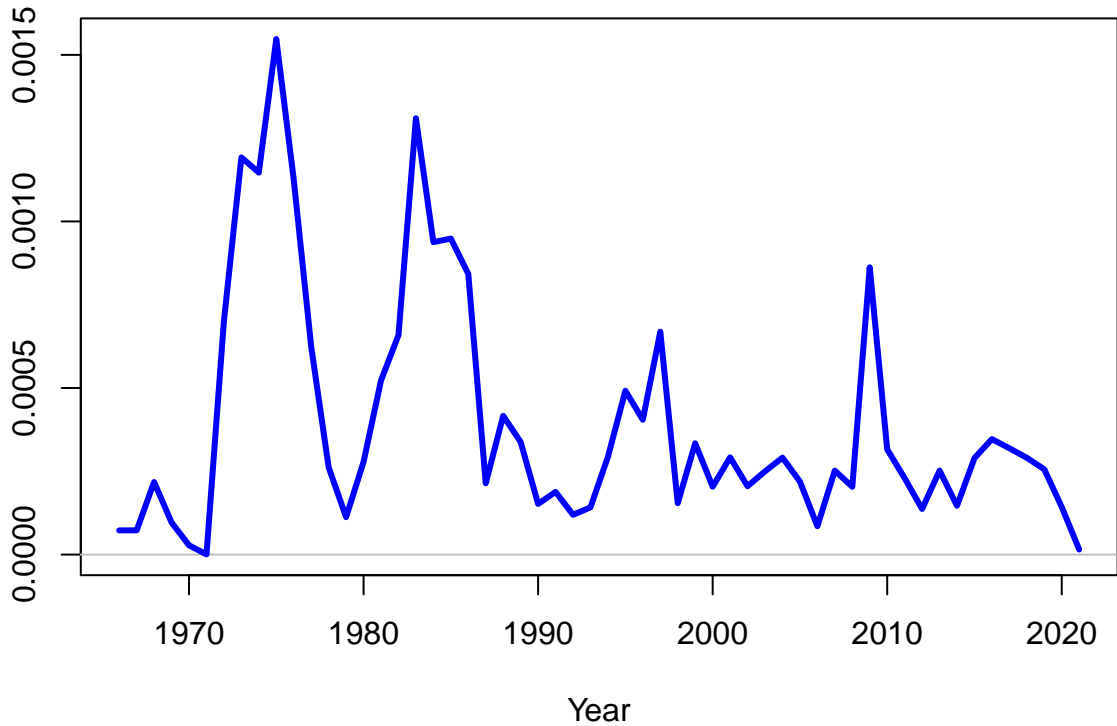
Log recruitment deviation



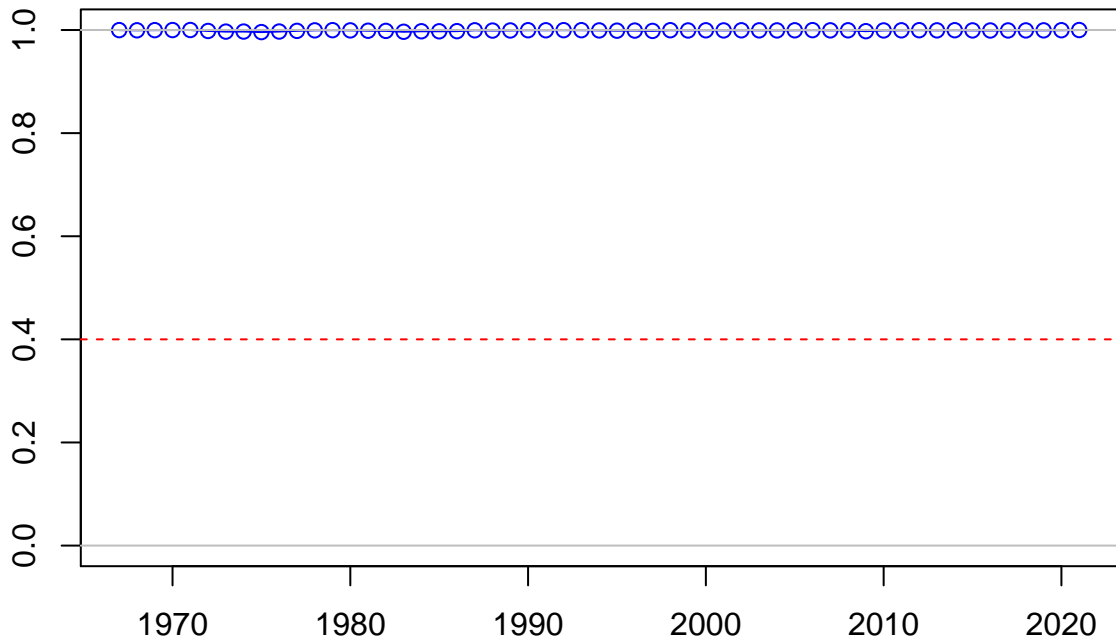




Continuous F

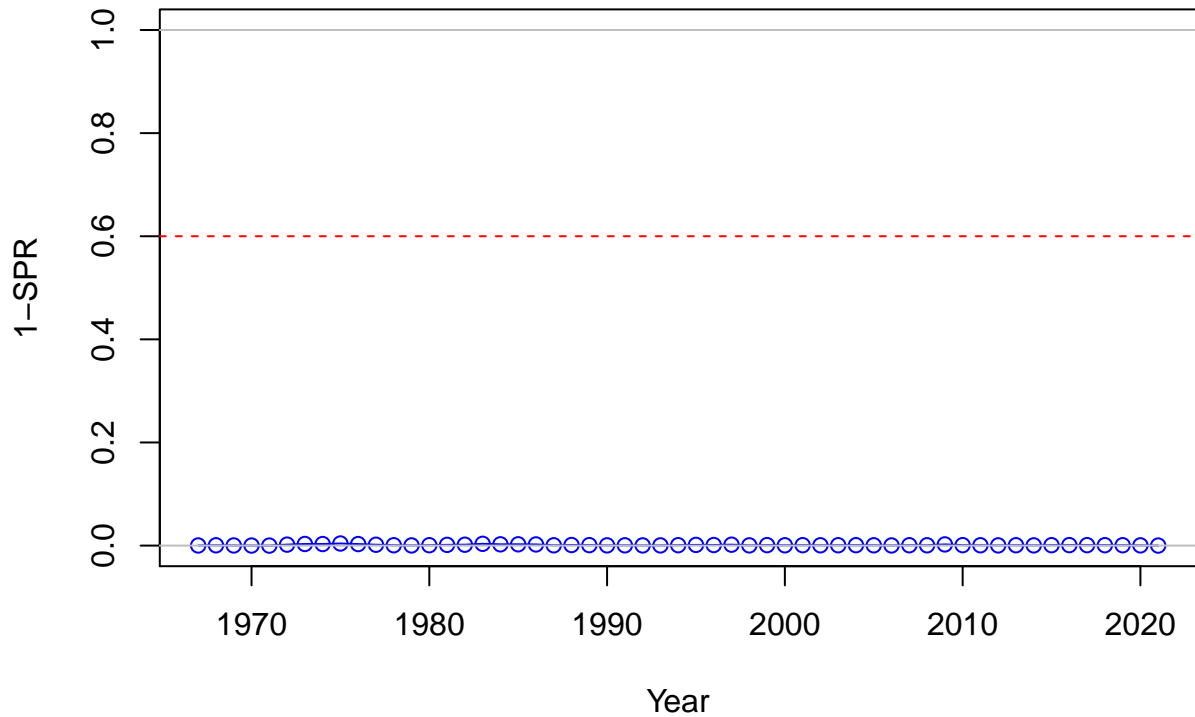


SPR

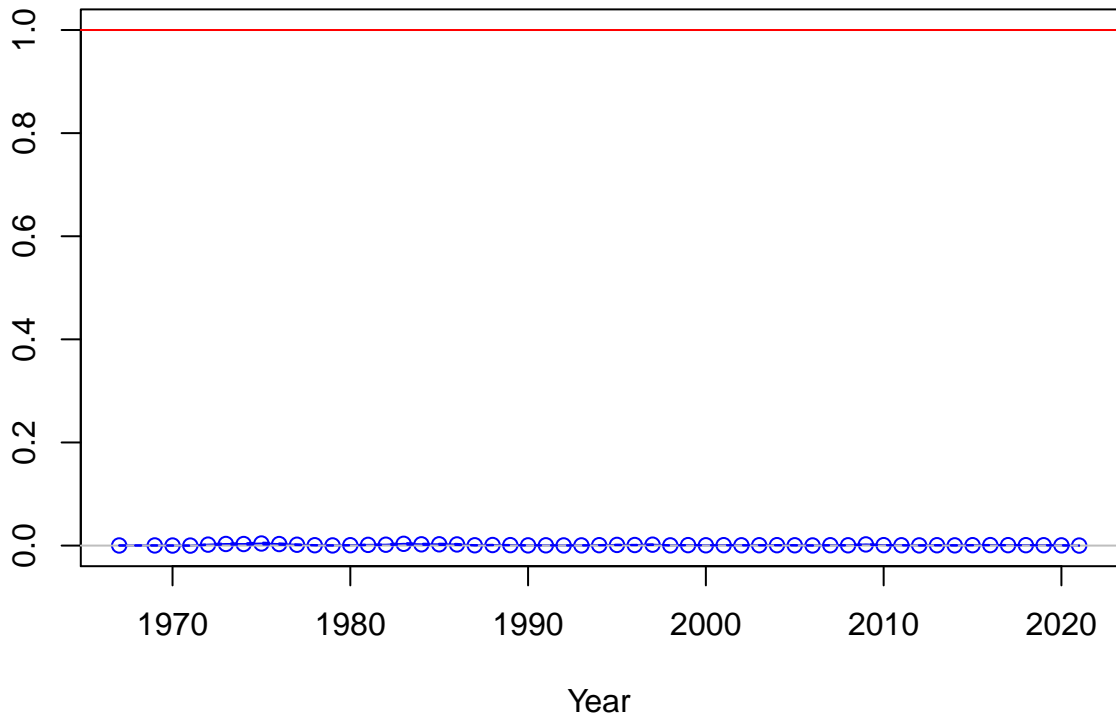


Year

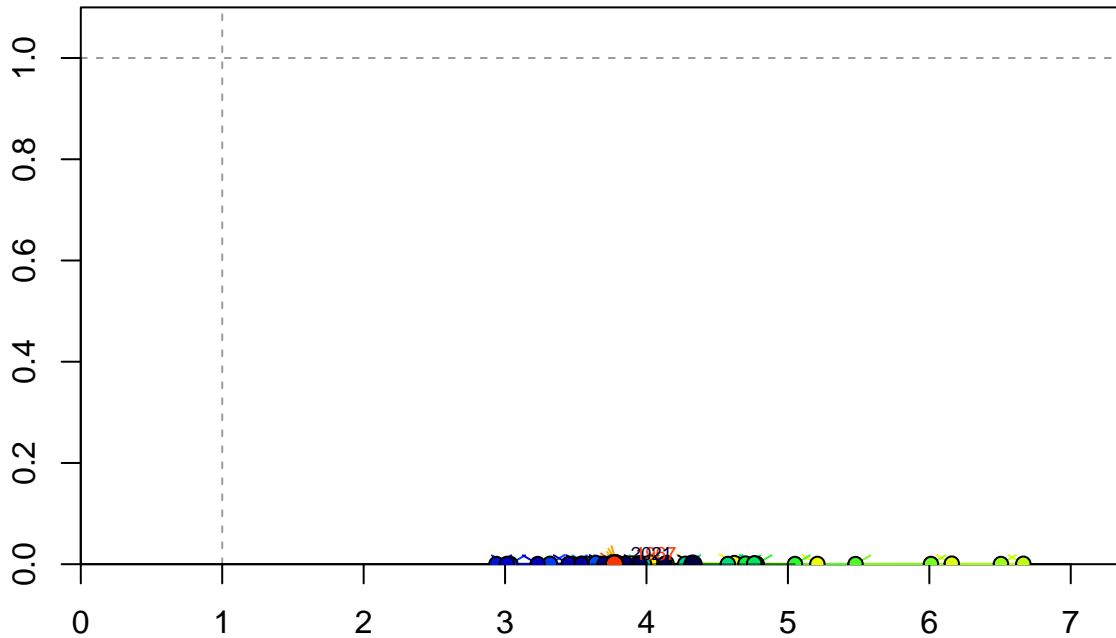




Fishing intensity: 1-SPR

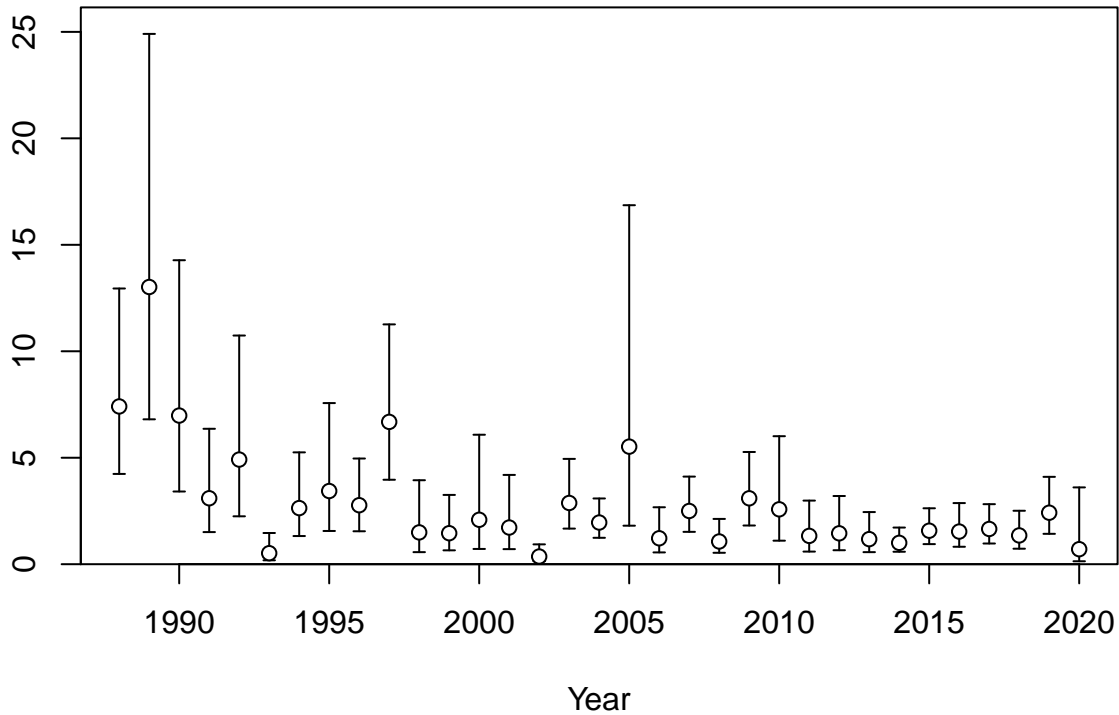


Fishing intensity: 1-SPR

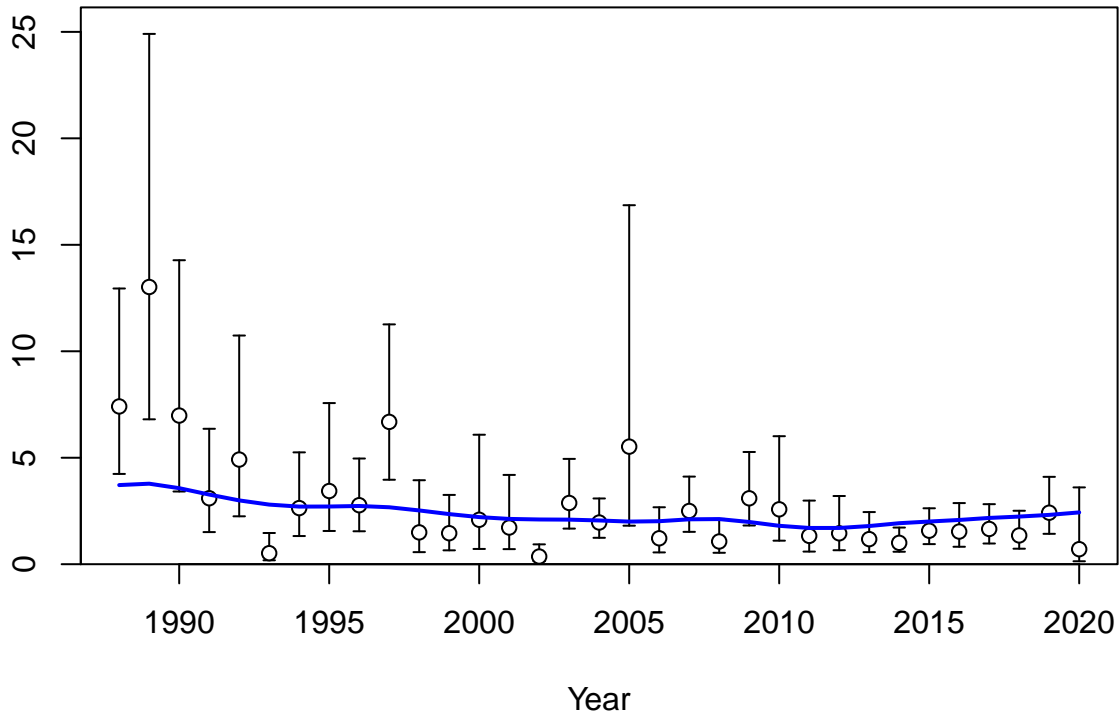


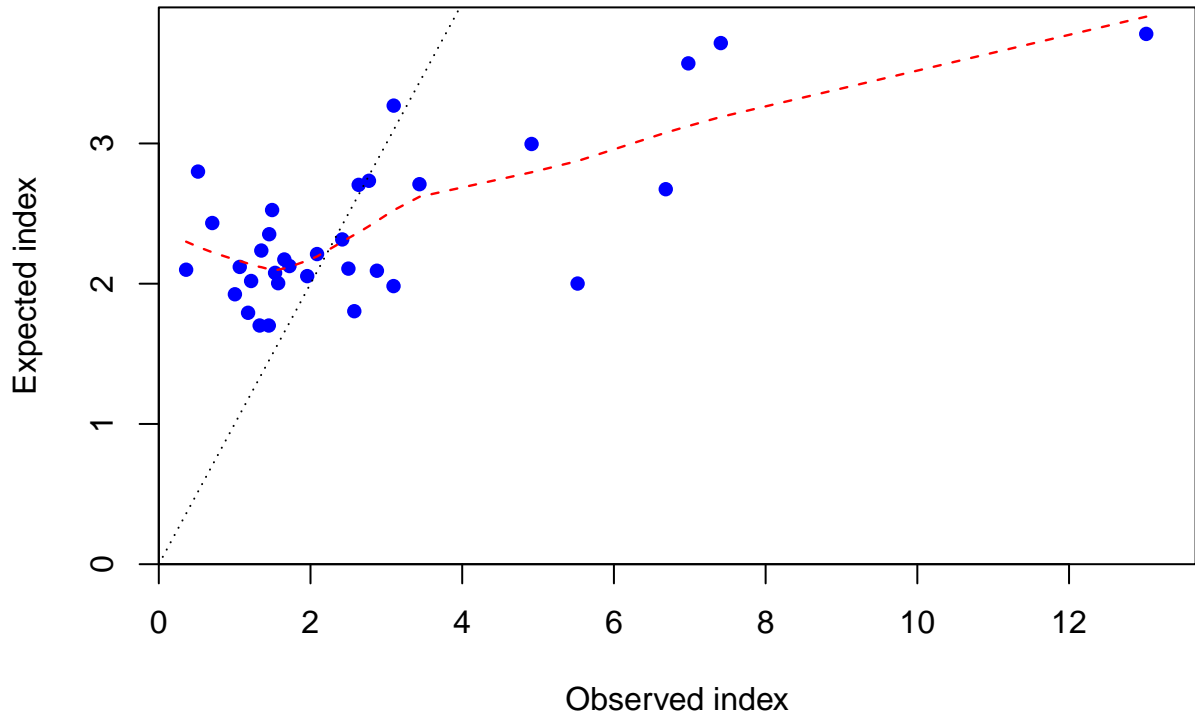
Relative spawning output:  $B/B_{MSY}$

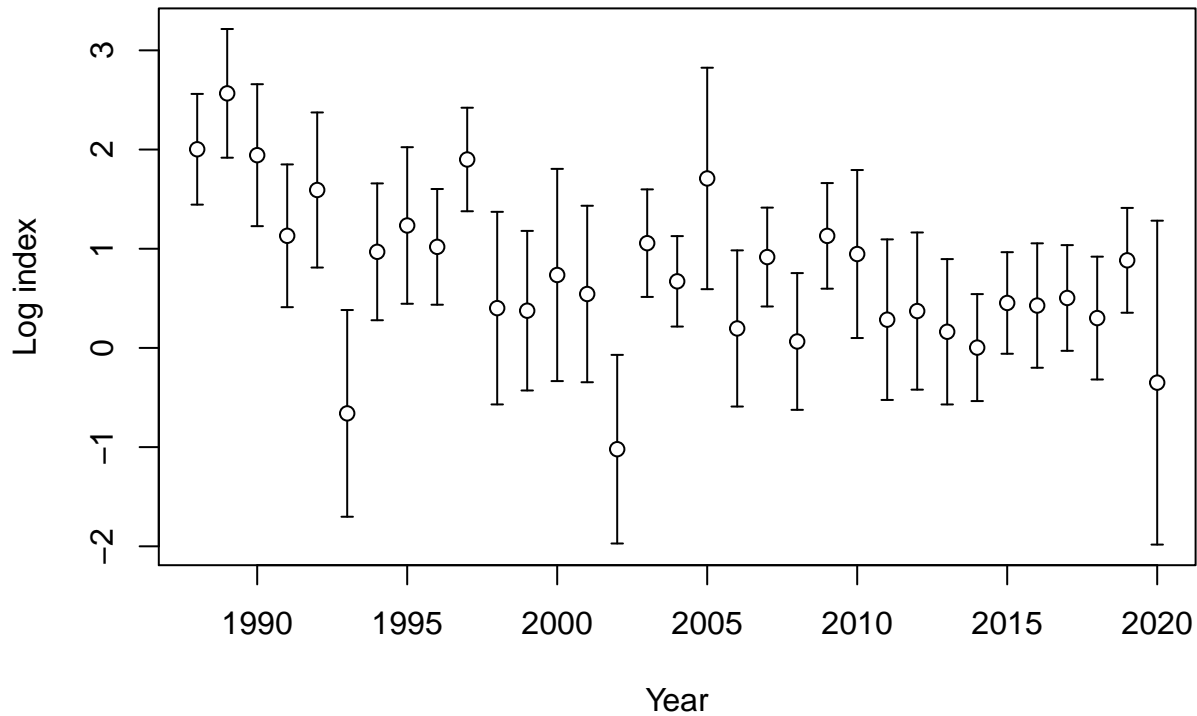
Index

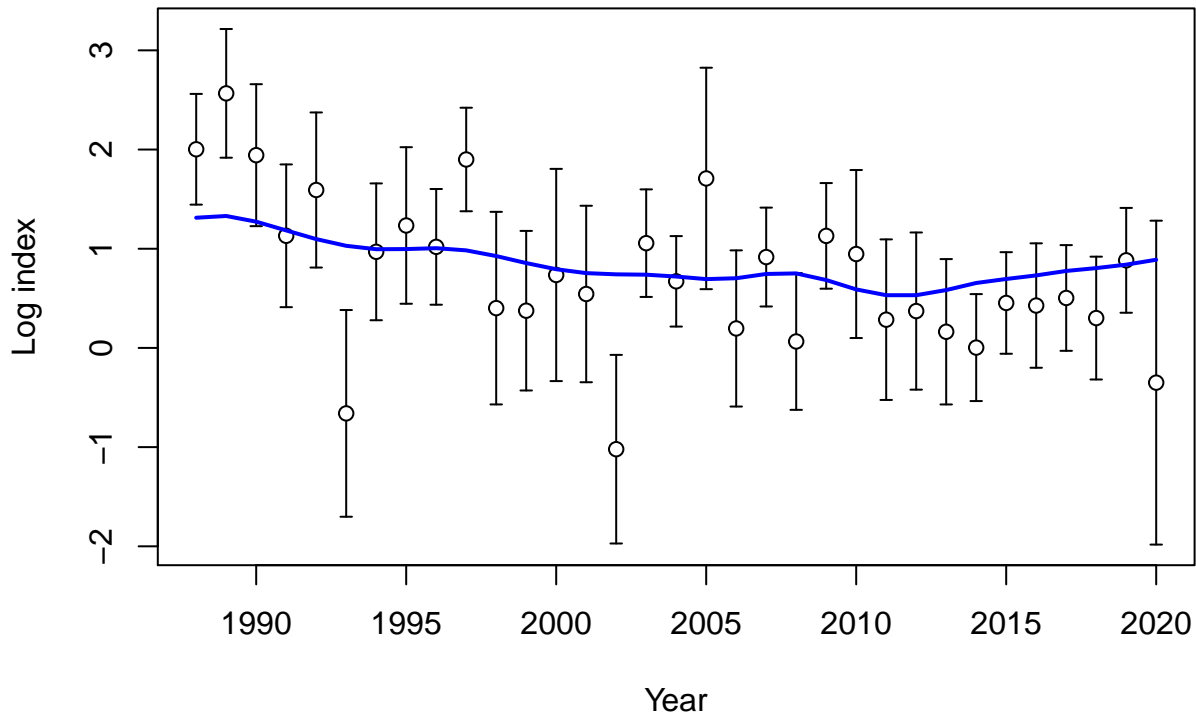


Index

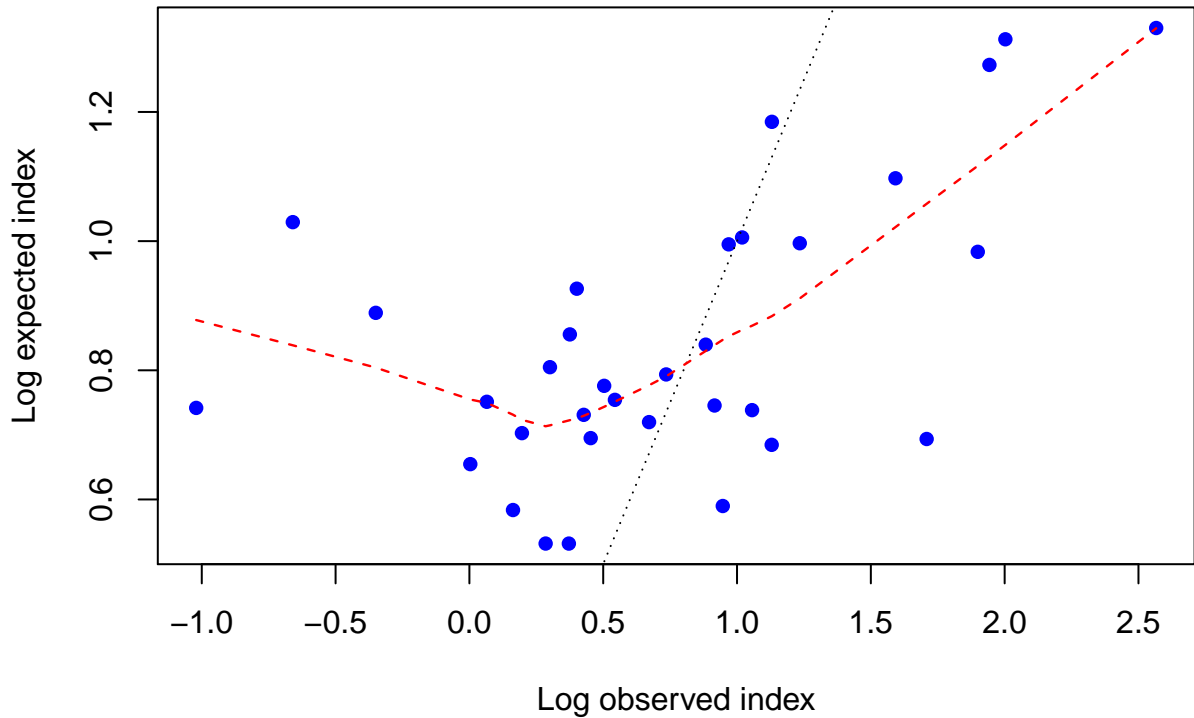


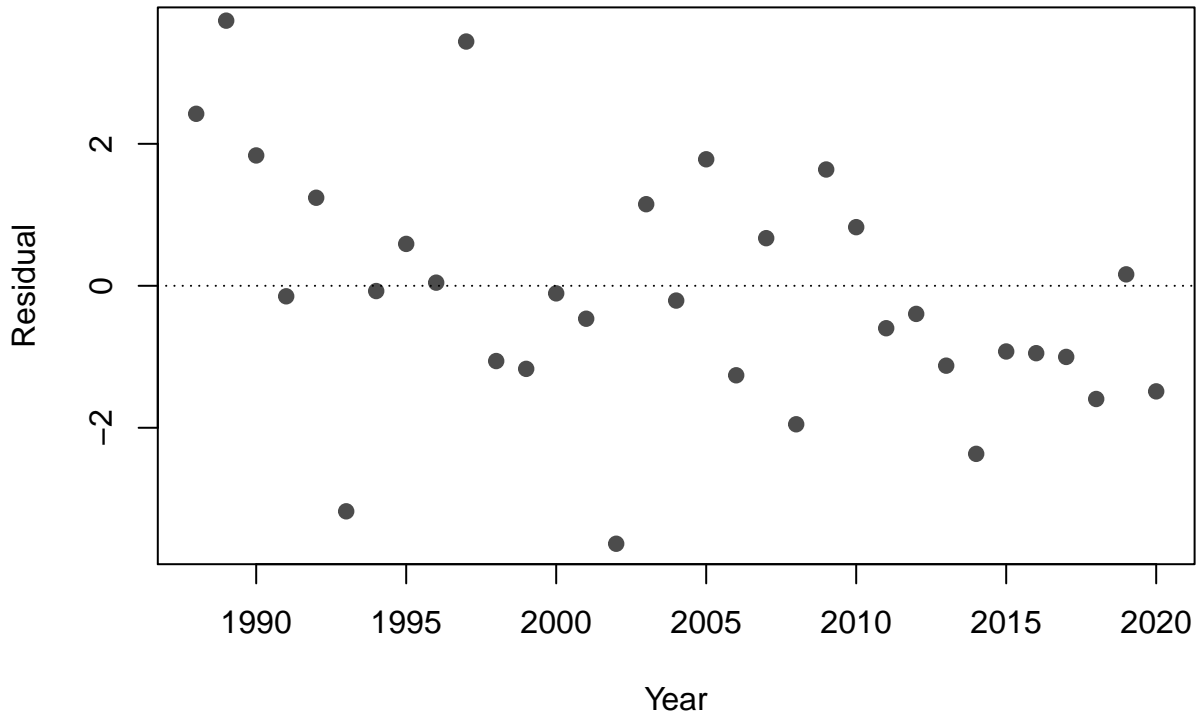


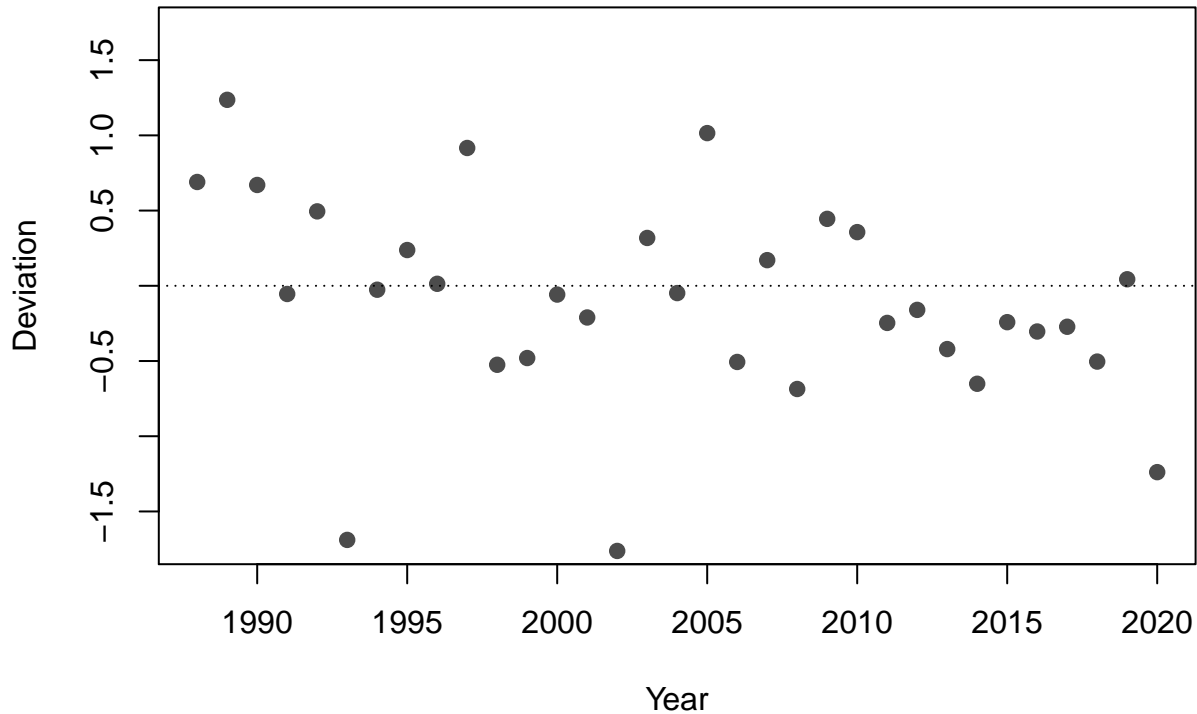


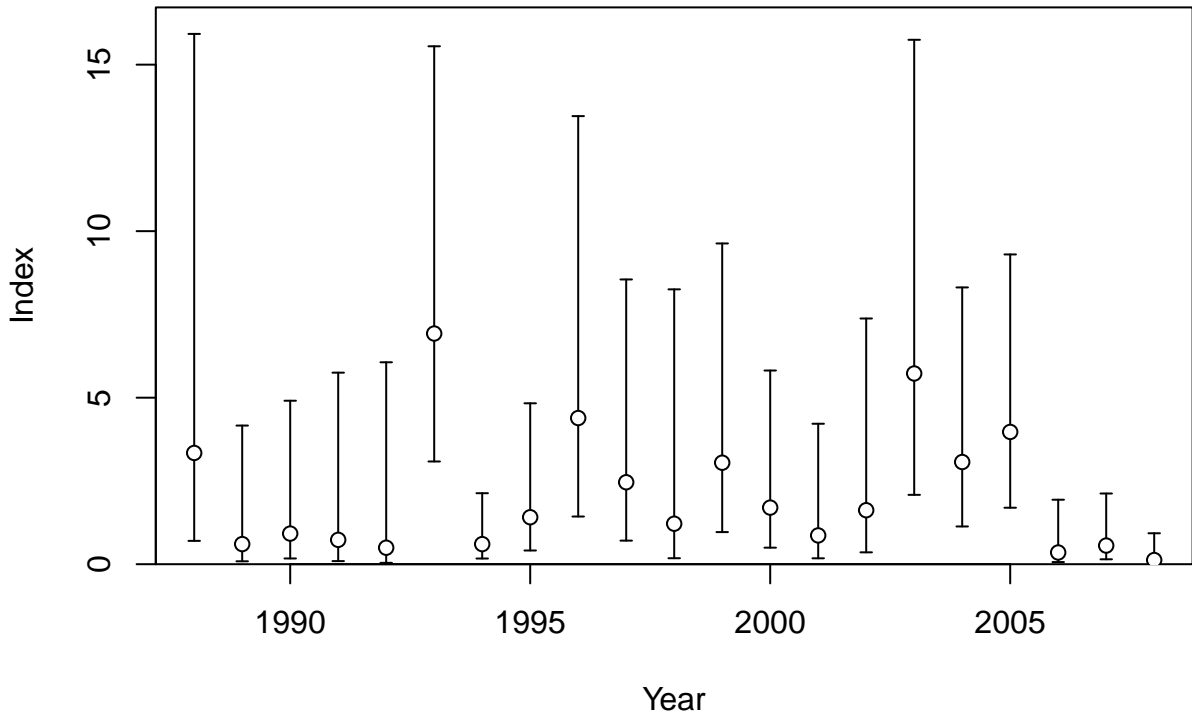


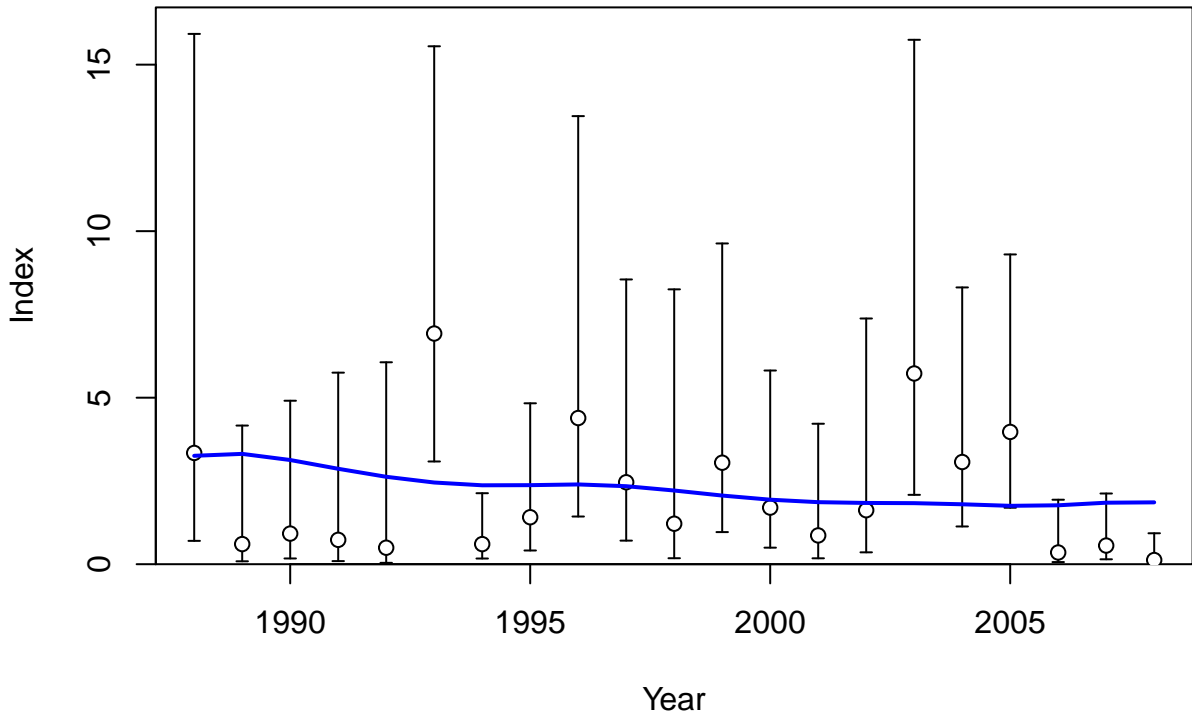


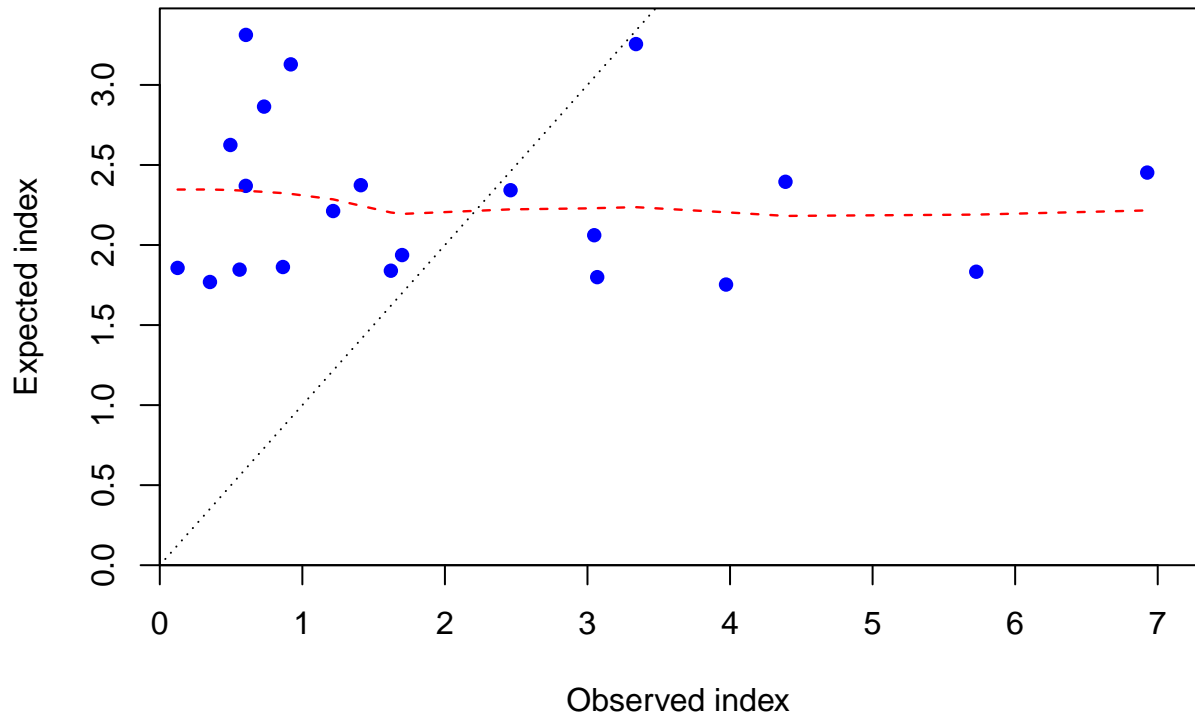




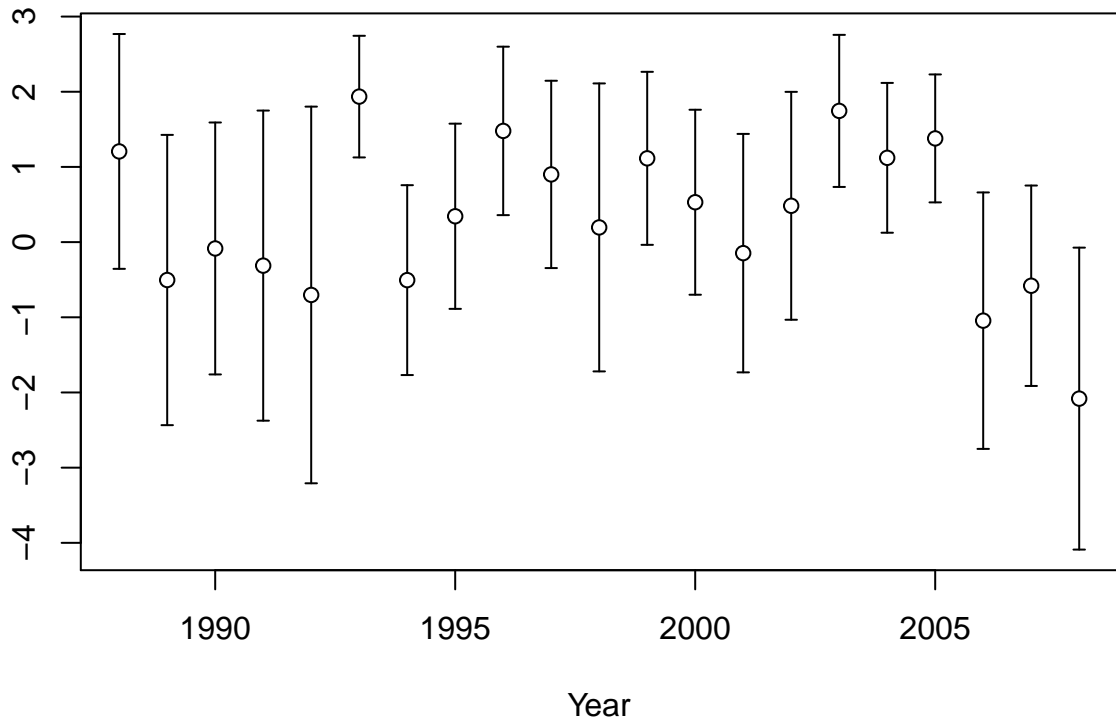




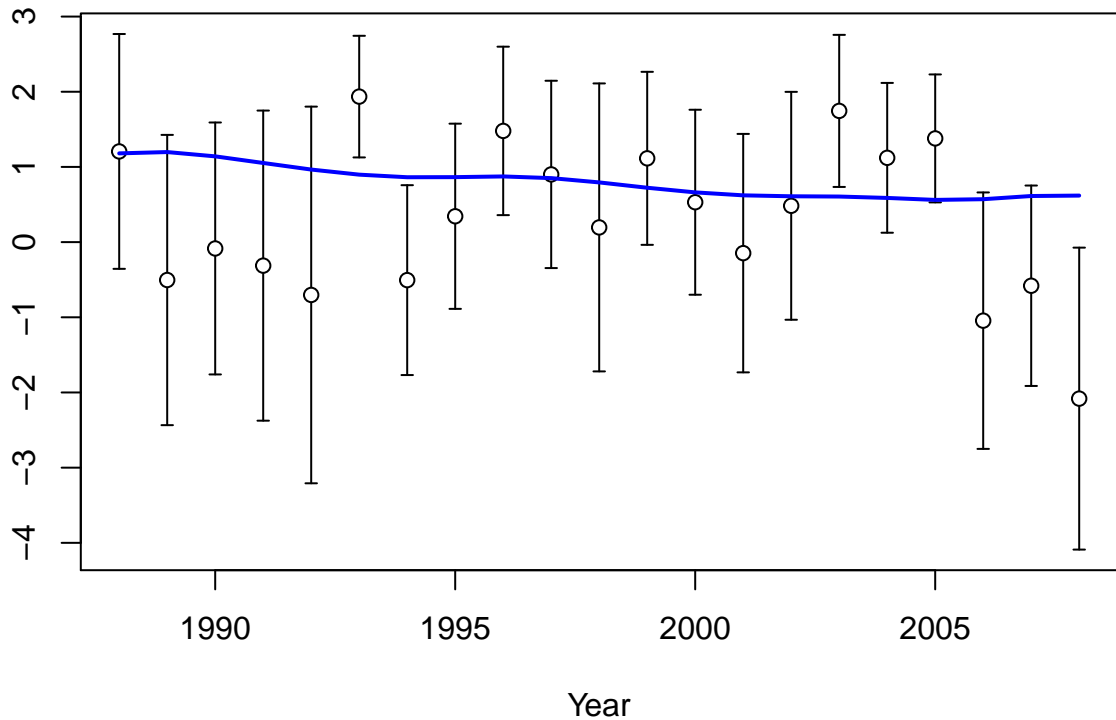




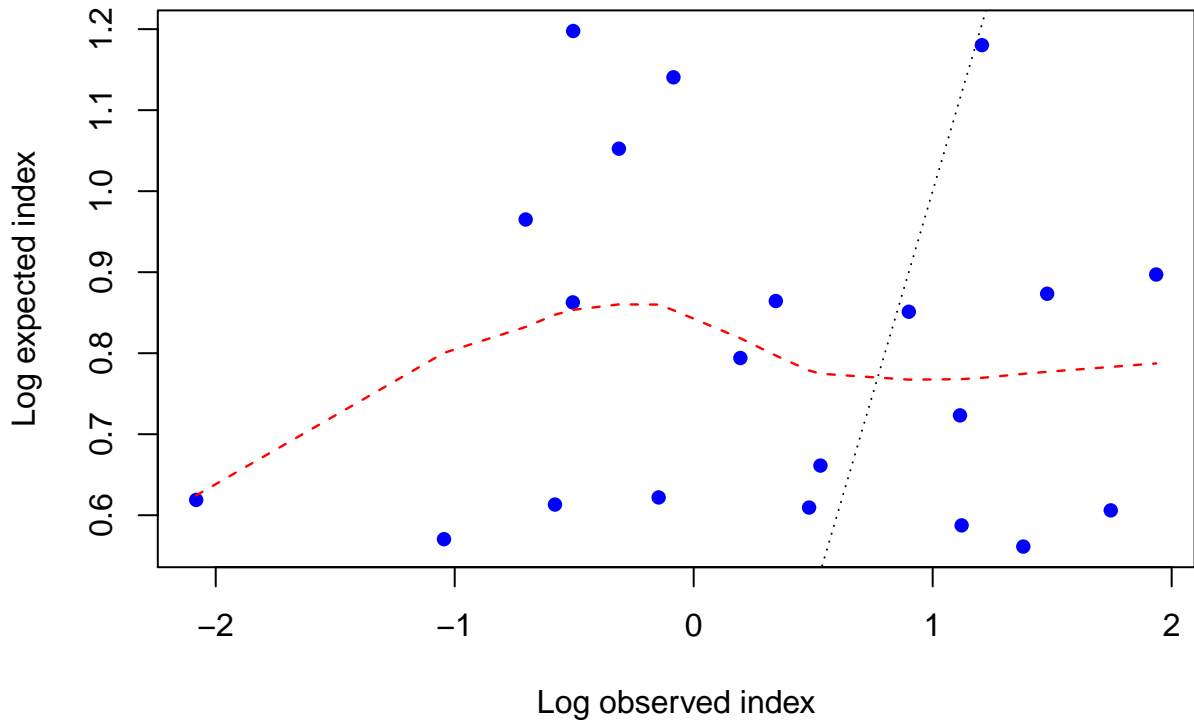
Log index

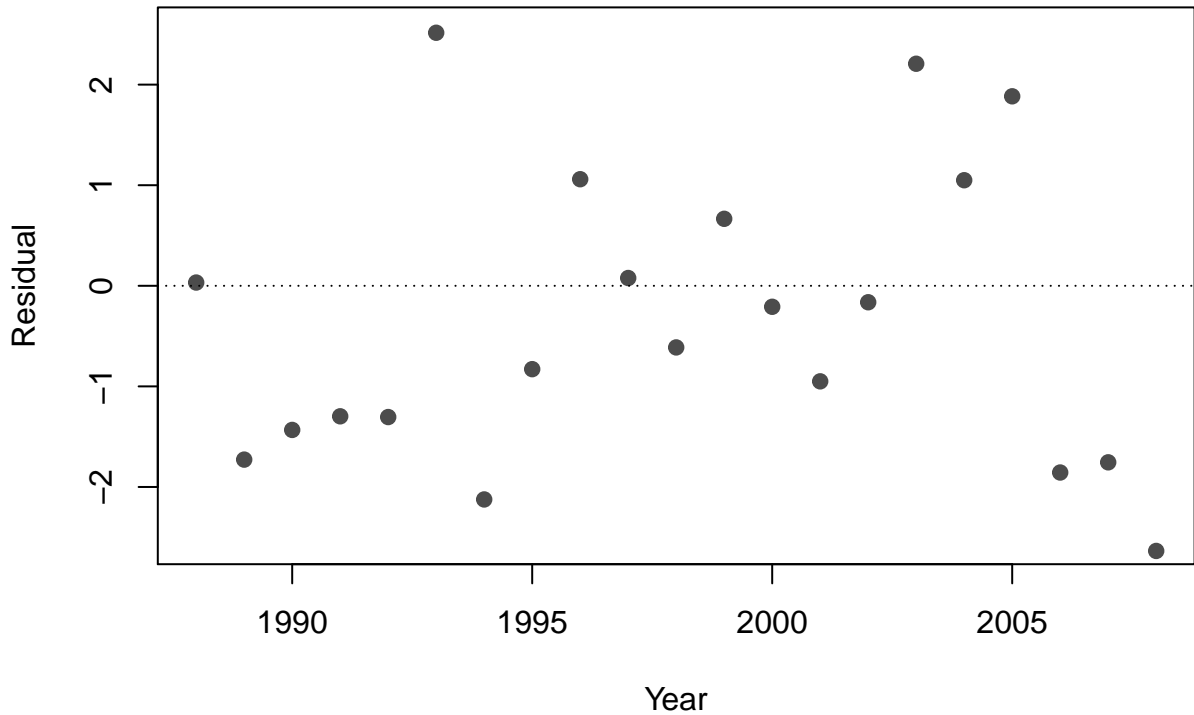


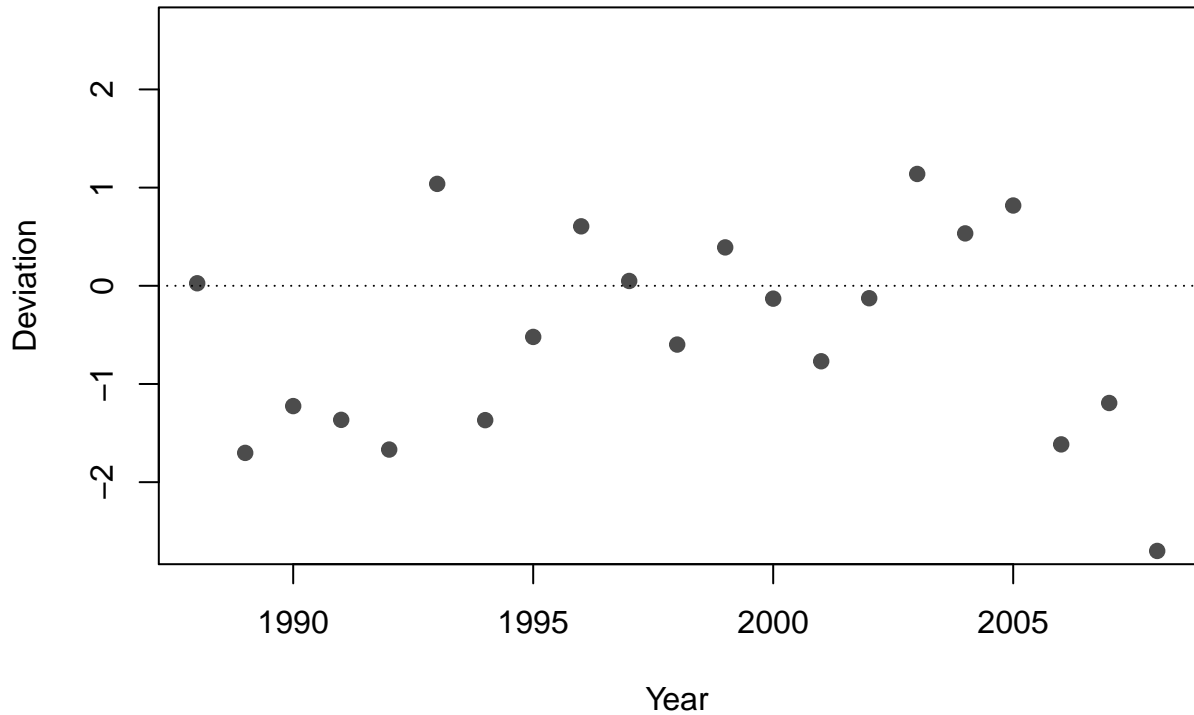
Log index

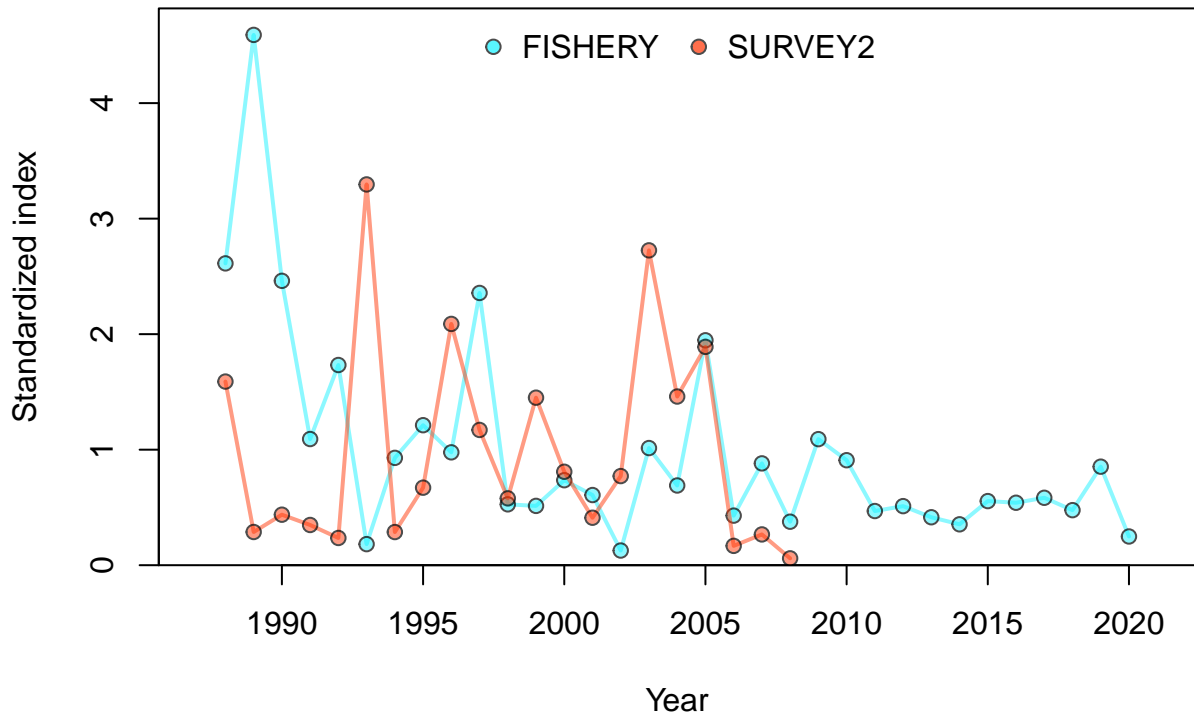




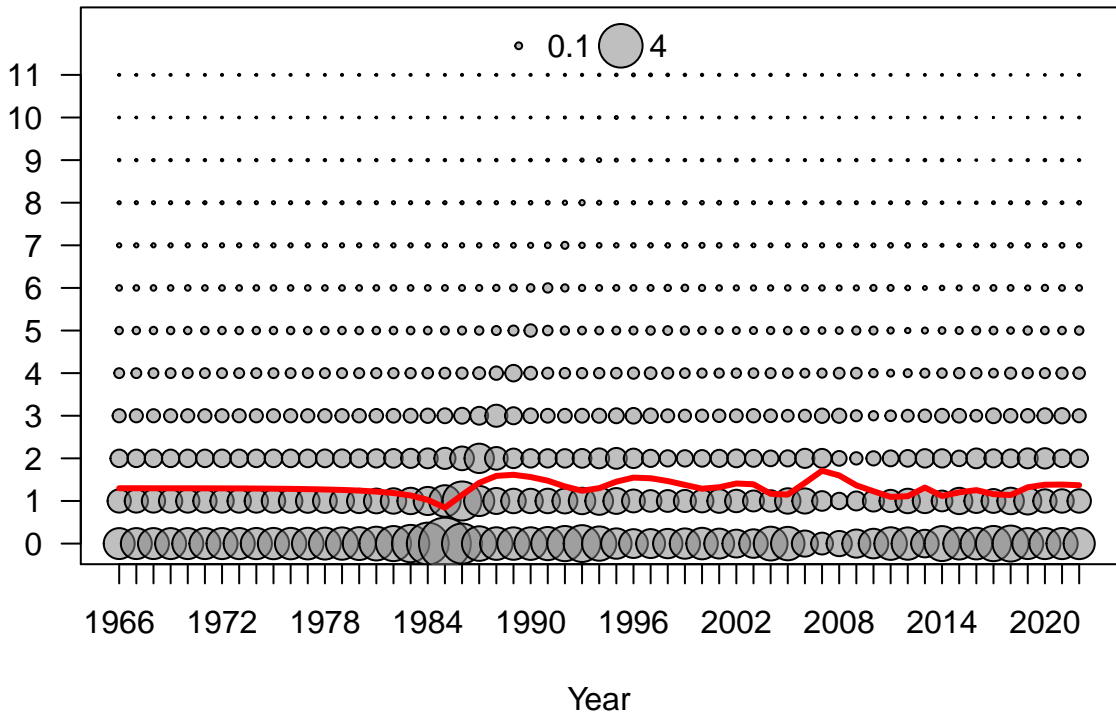


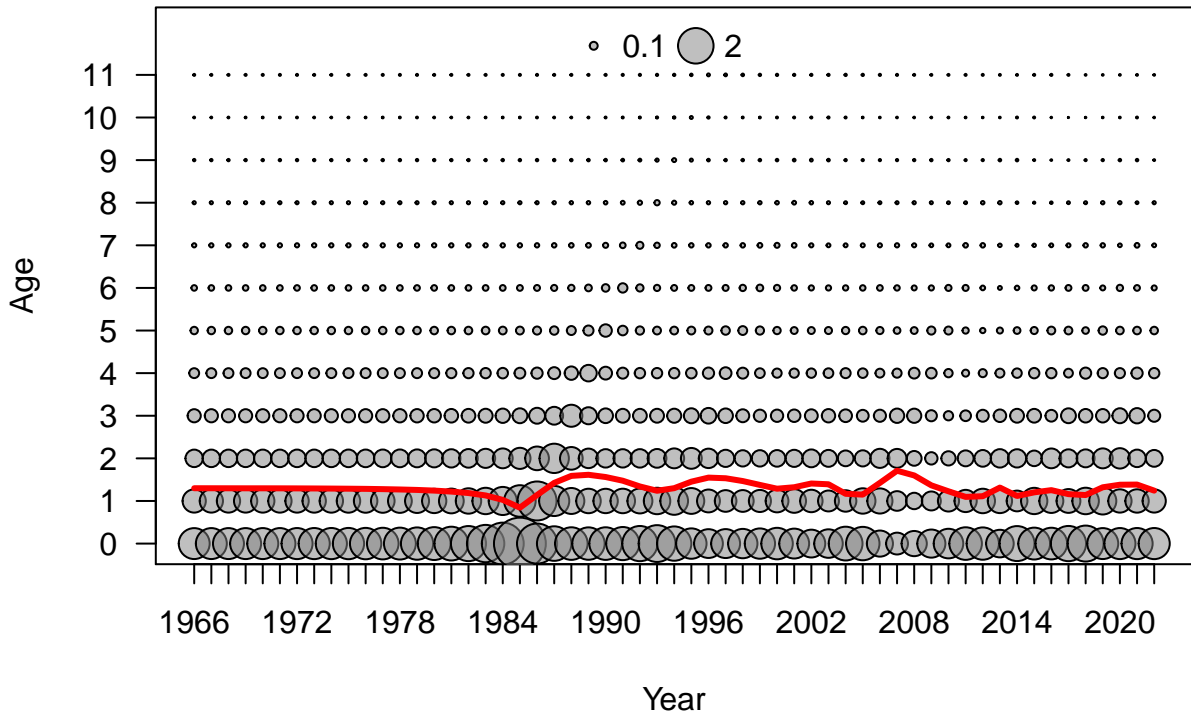


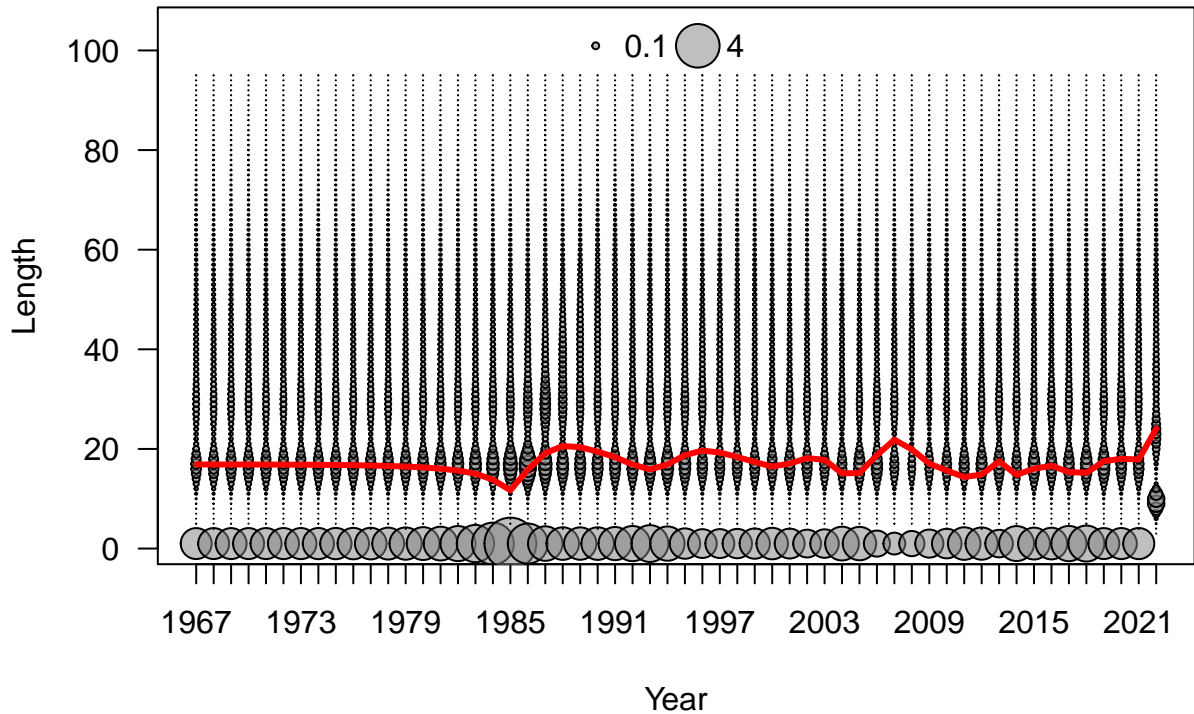


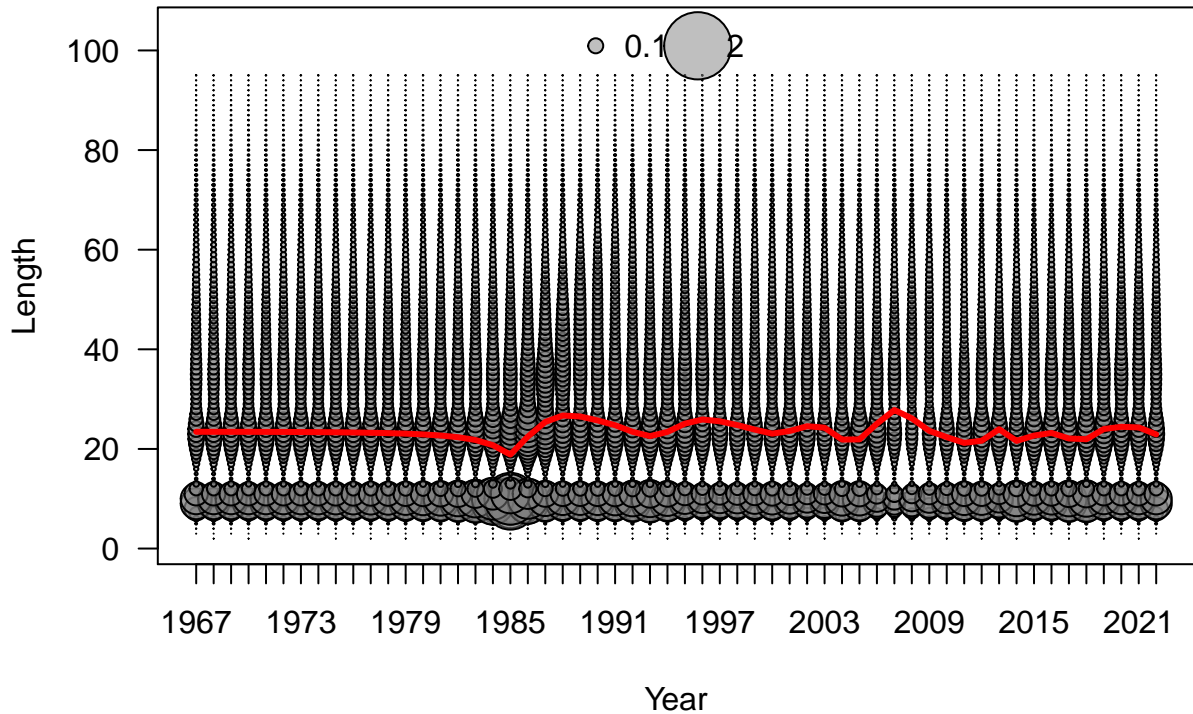


Age

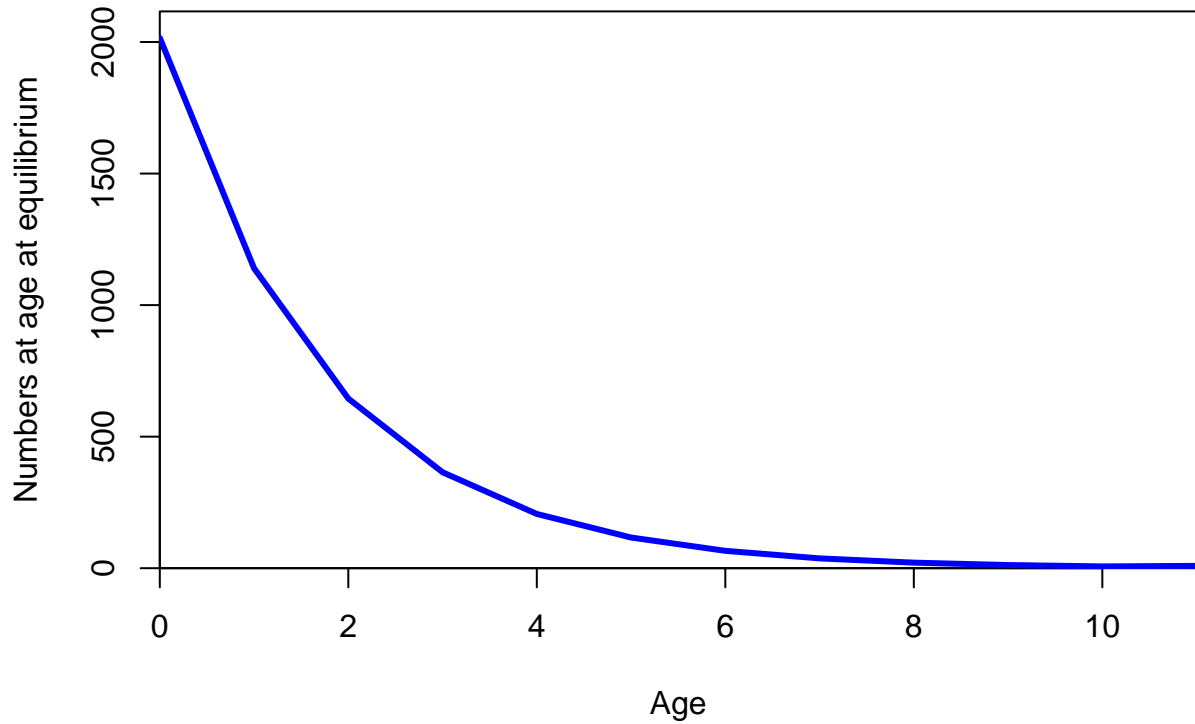






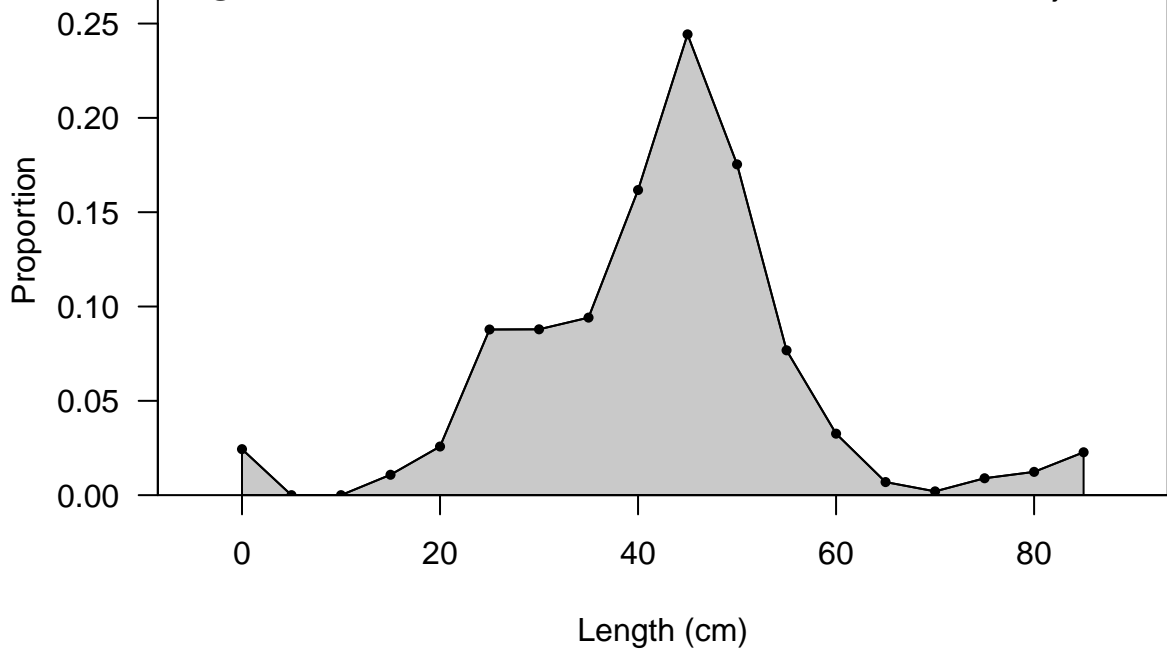


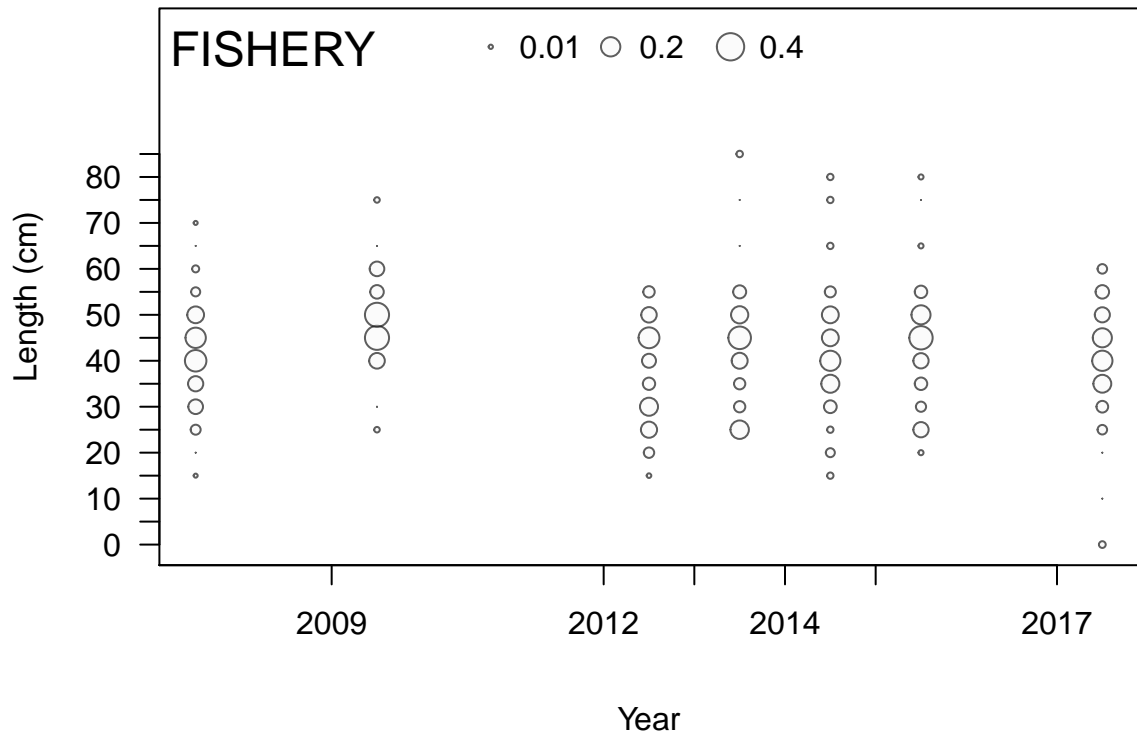




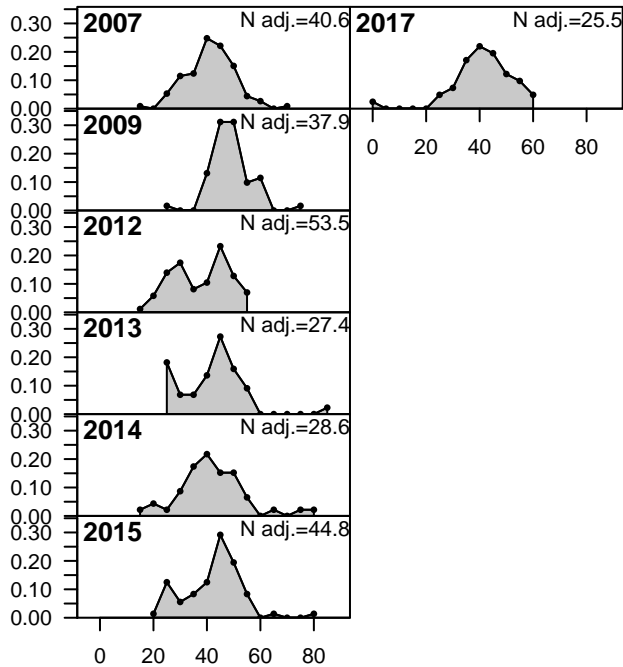
# FISHERY

Sum of N adj.=258.1

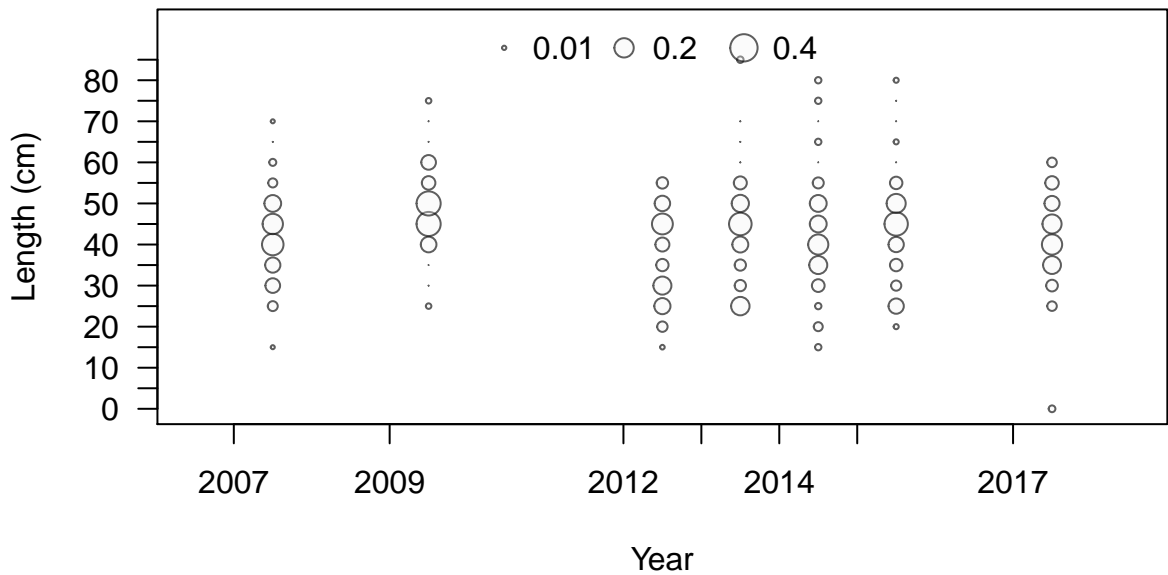




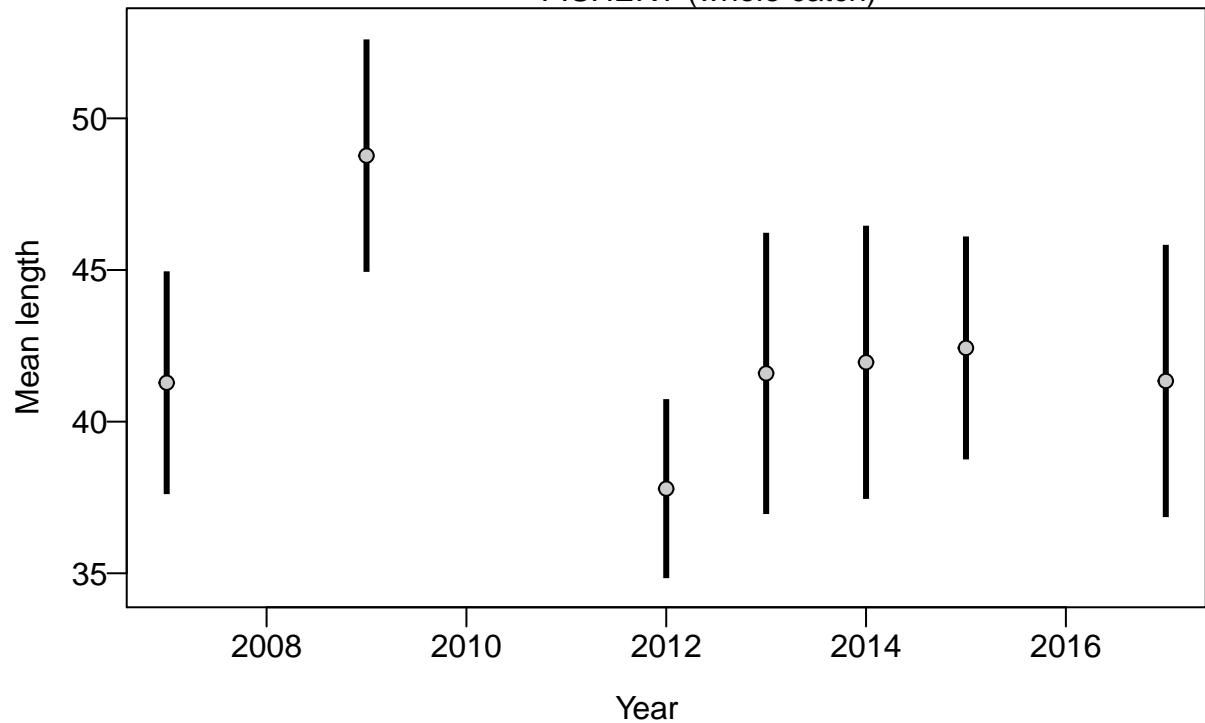
Proportion



Length (cm)

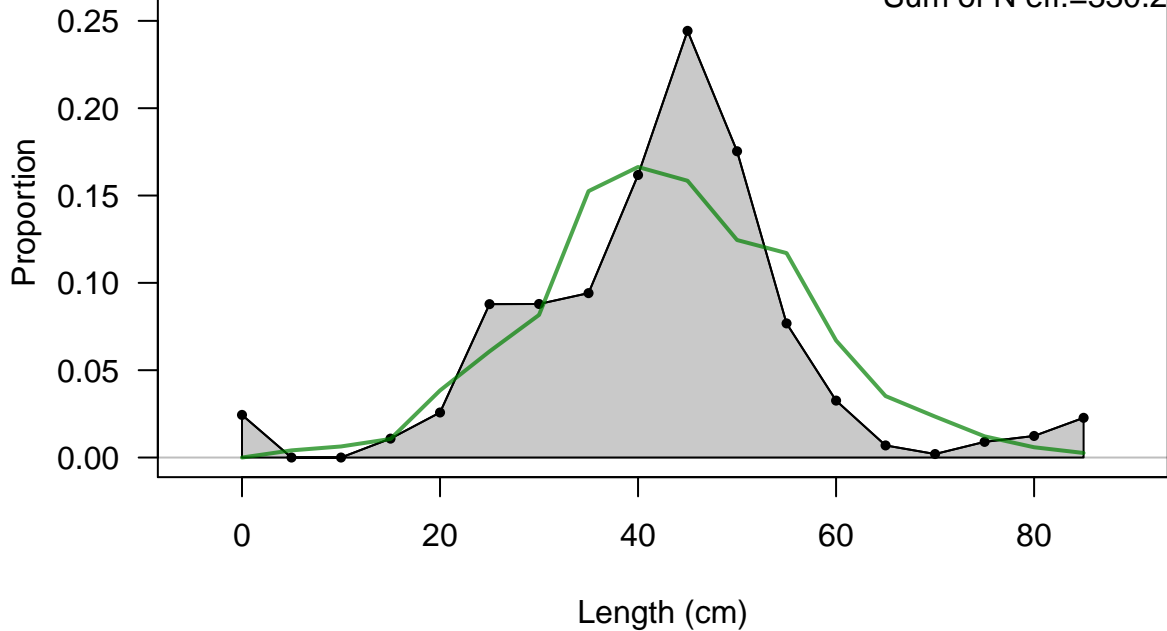


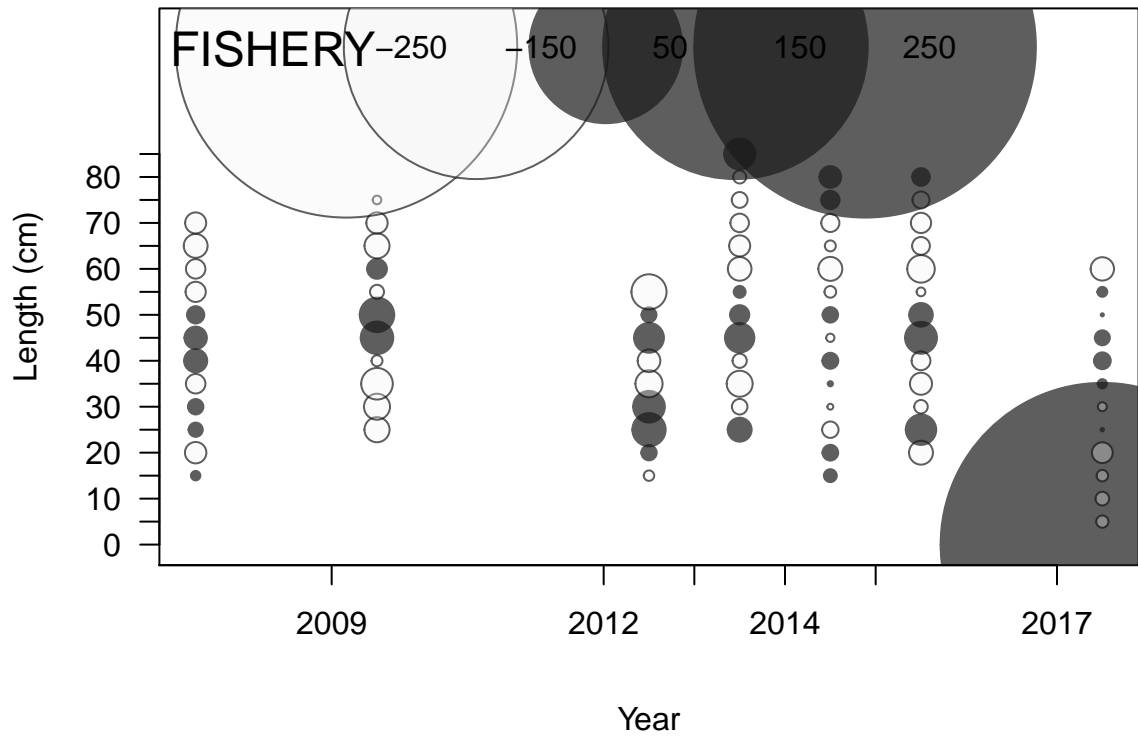
# FISHERY (whole catch)



# FISHERY

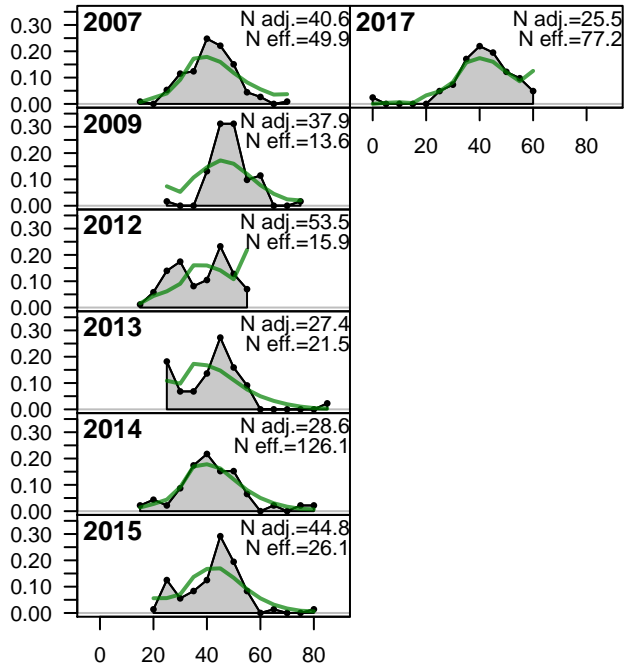
Sum of N adj.=258.1  
Sum of N eff.=330.2



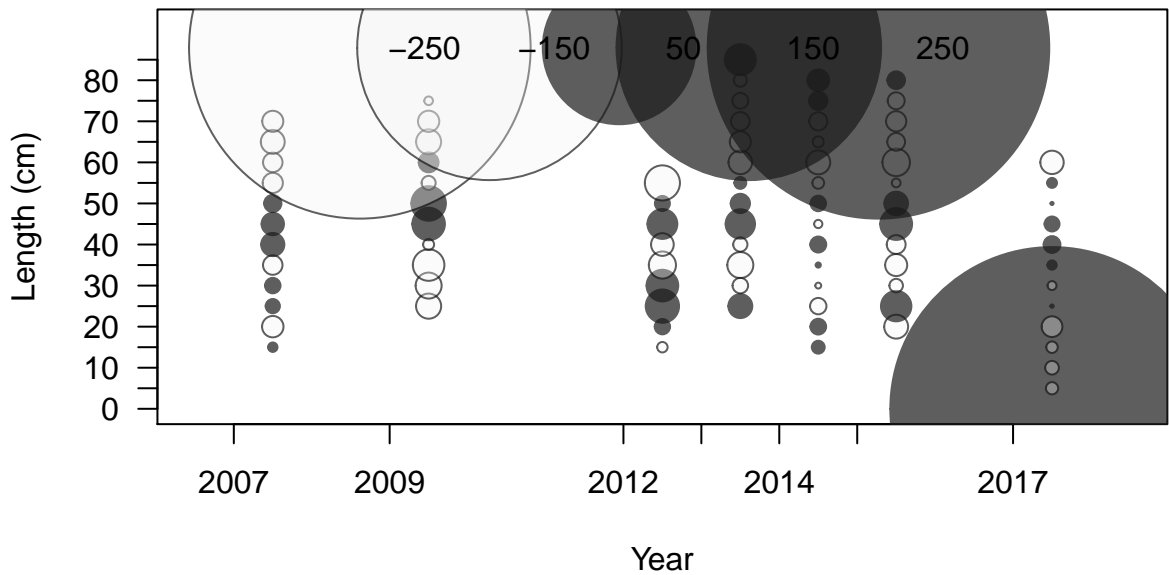


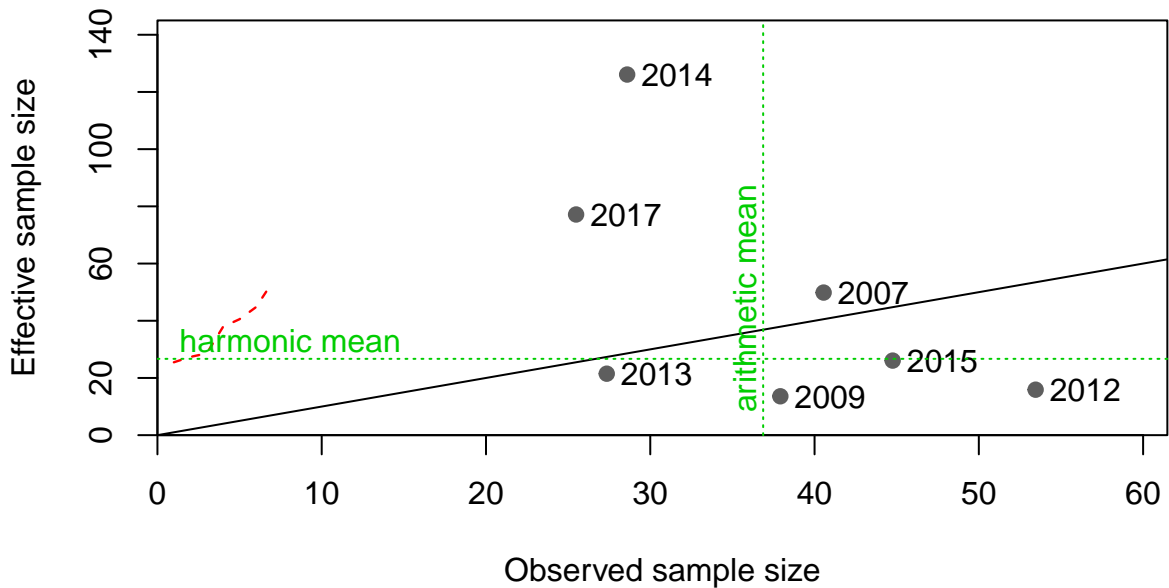


Proportion

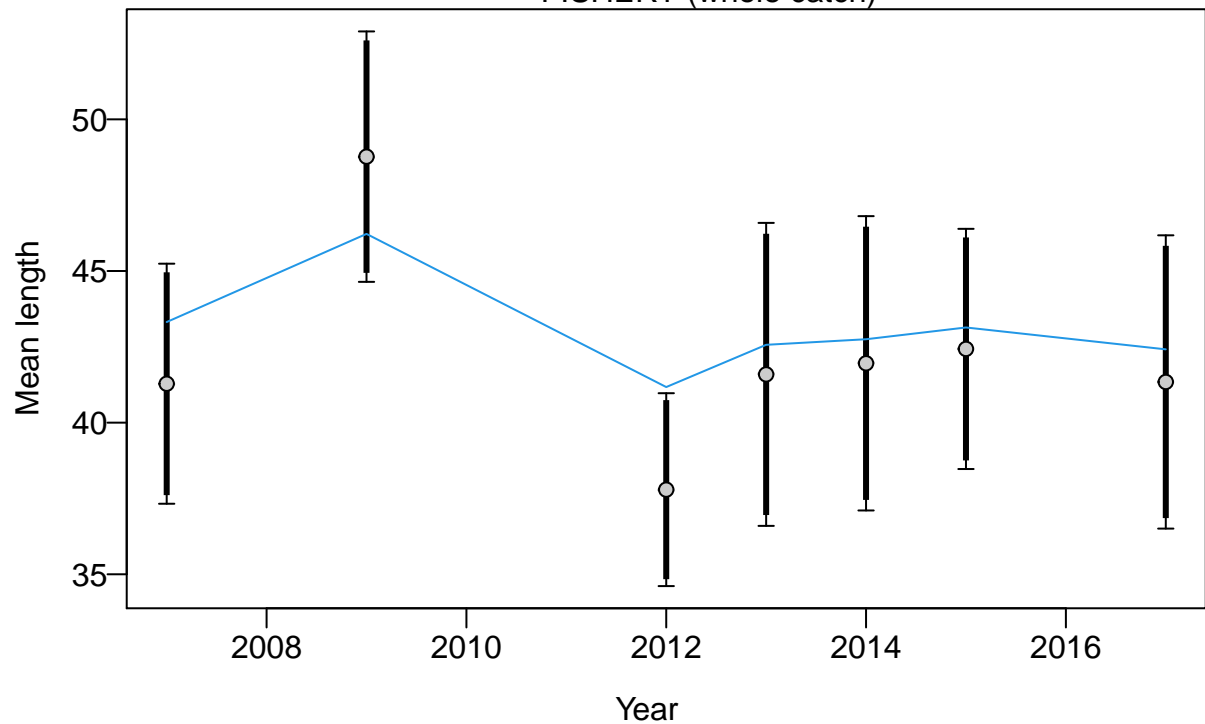


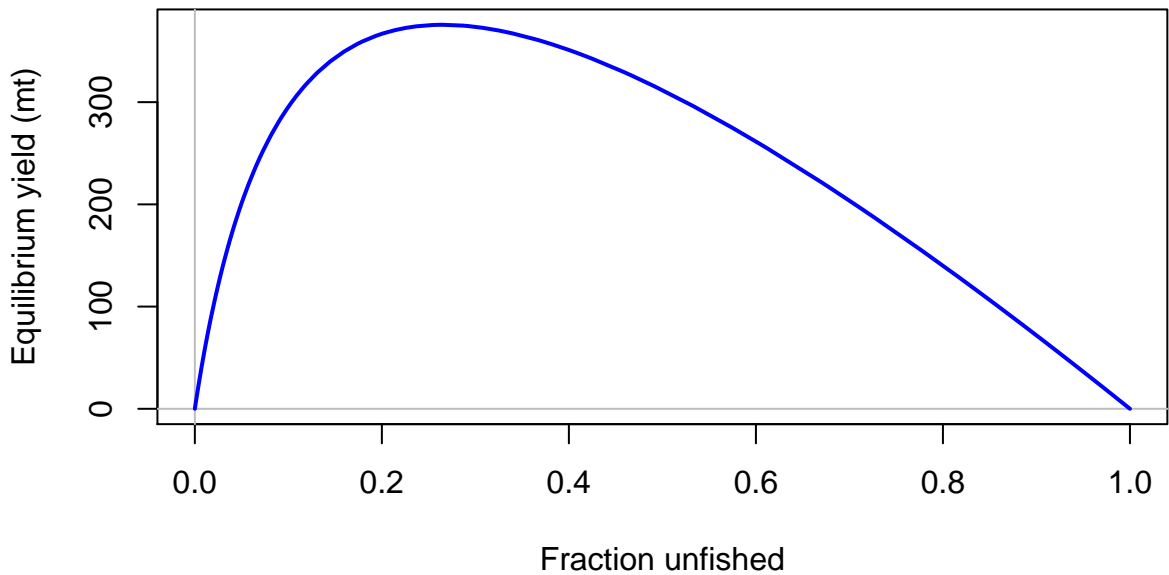
Length (cm)

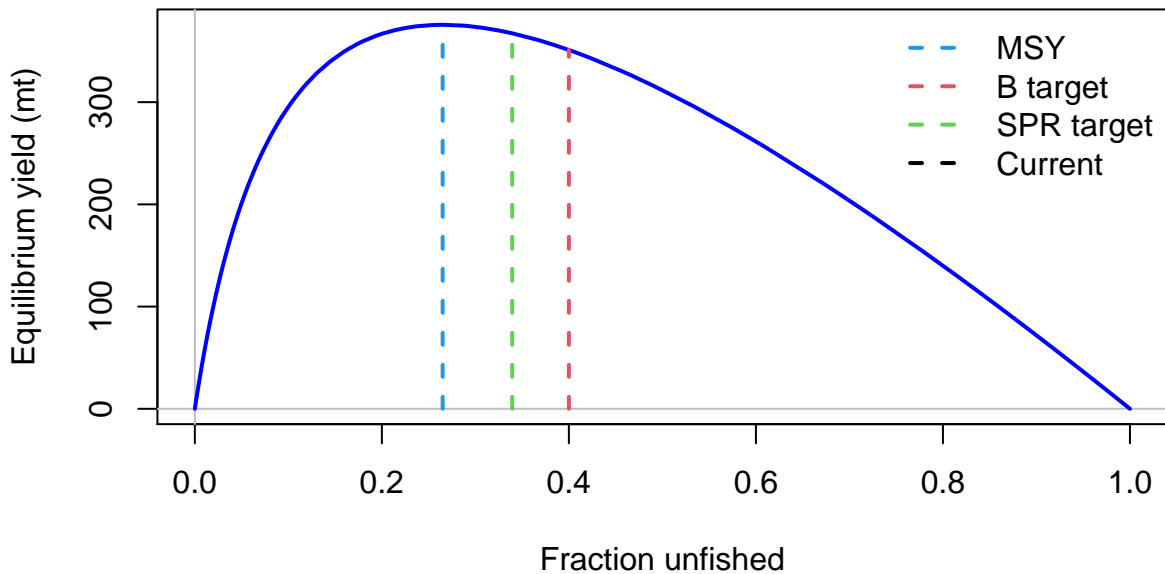


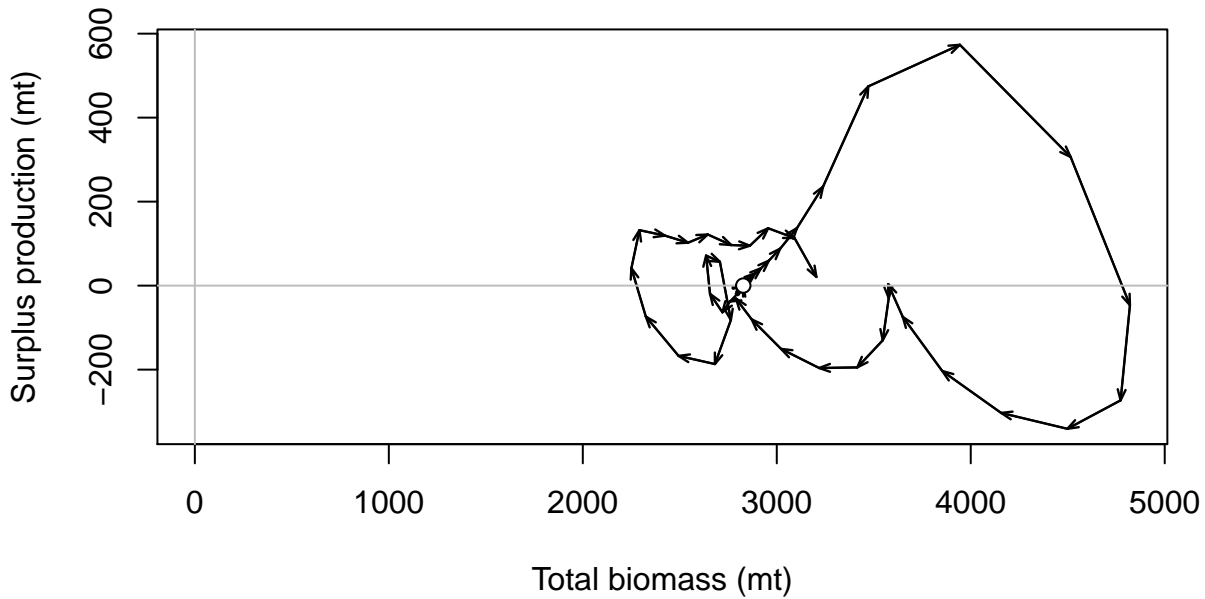


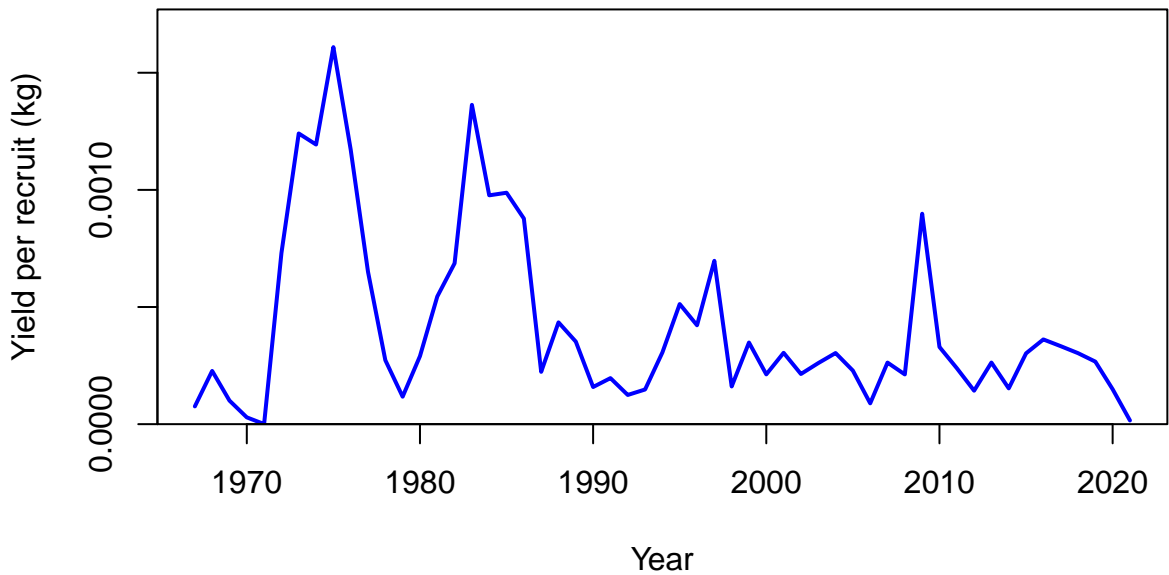
FISHERY (whole catch)



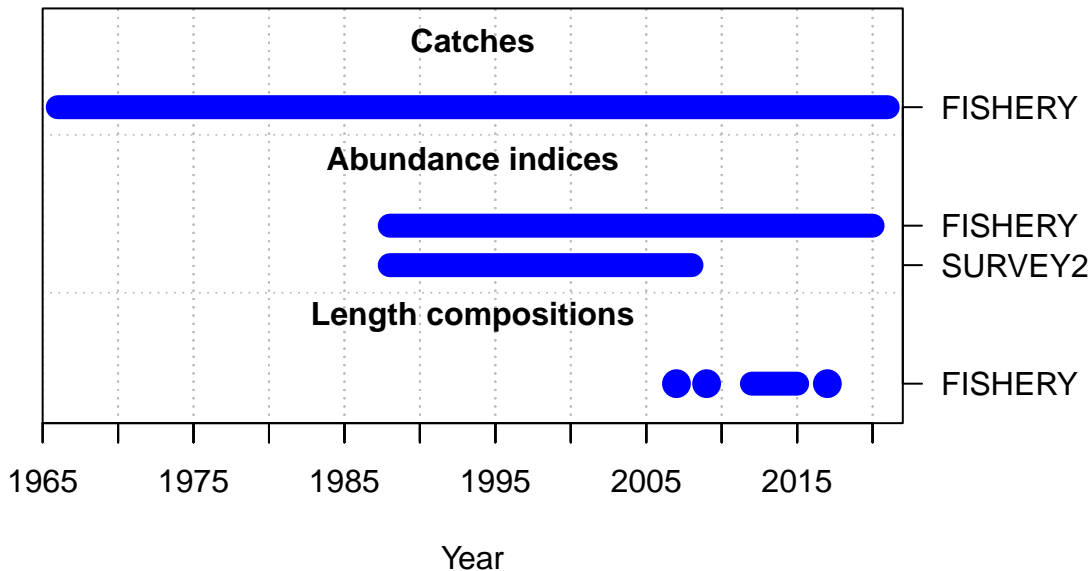


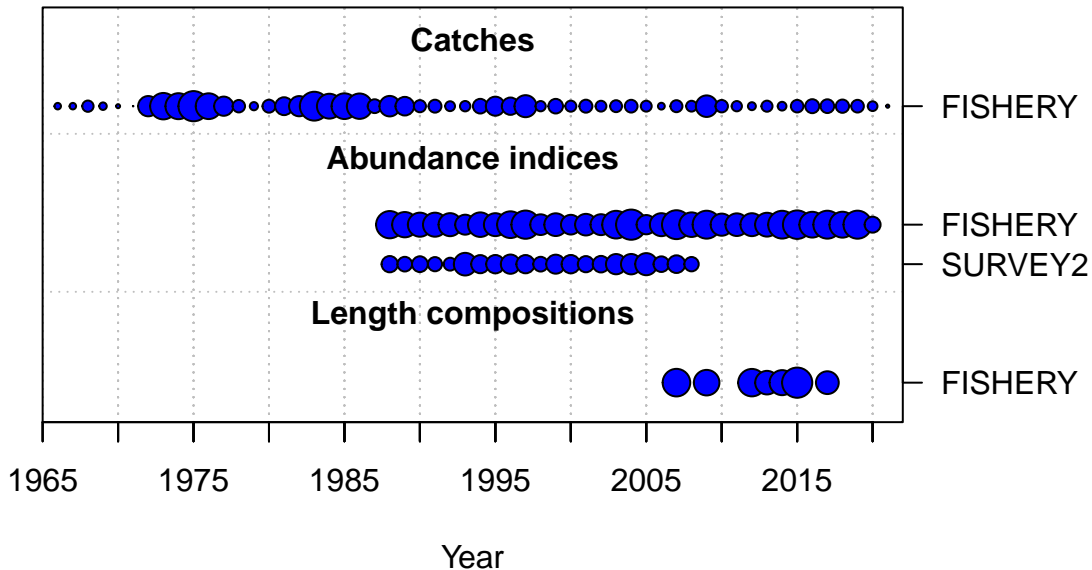




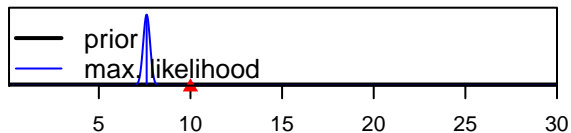




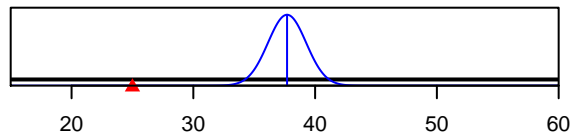




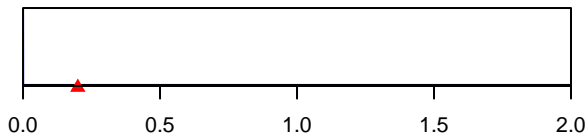
SR\_LN(R0)



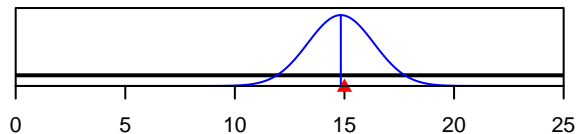
Size\_inflection\_FISHERY(1)



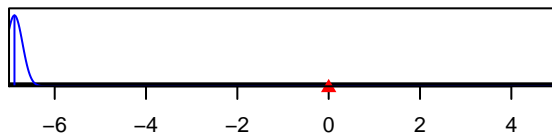
InitF\_seas\_1\_flt\_1FISHERY



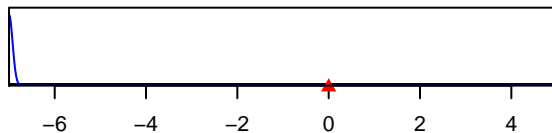
Size\_95%width\_FISHERY(1)



LnQ\_base\_FISHERY(1)



LnQ\_base\_SURVEY2(2)



Parameter value