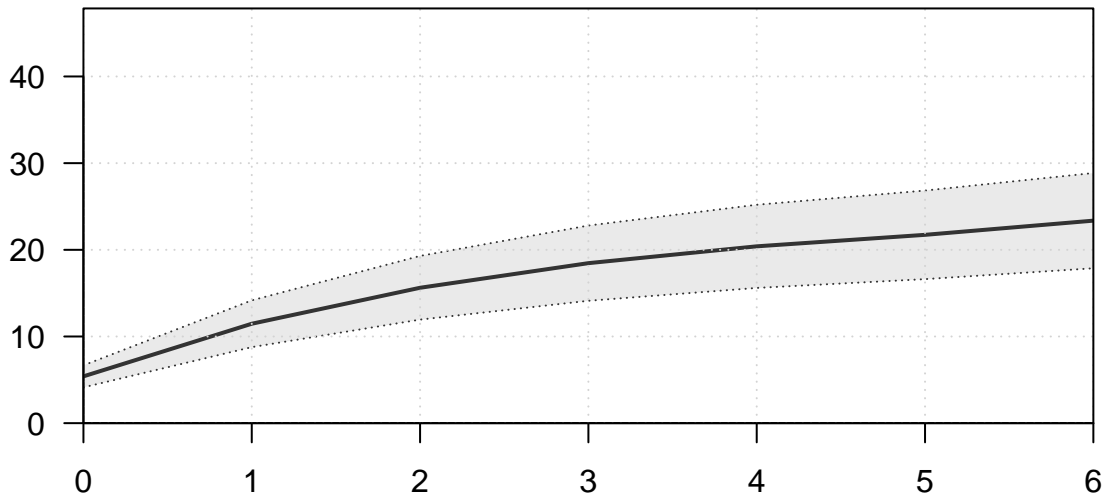
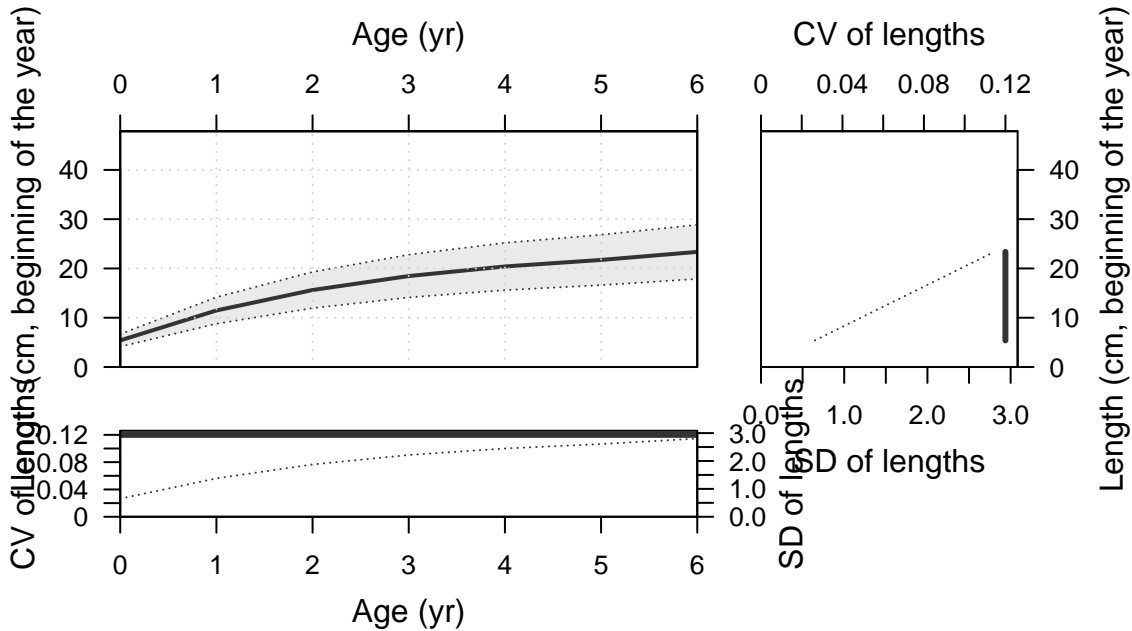


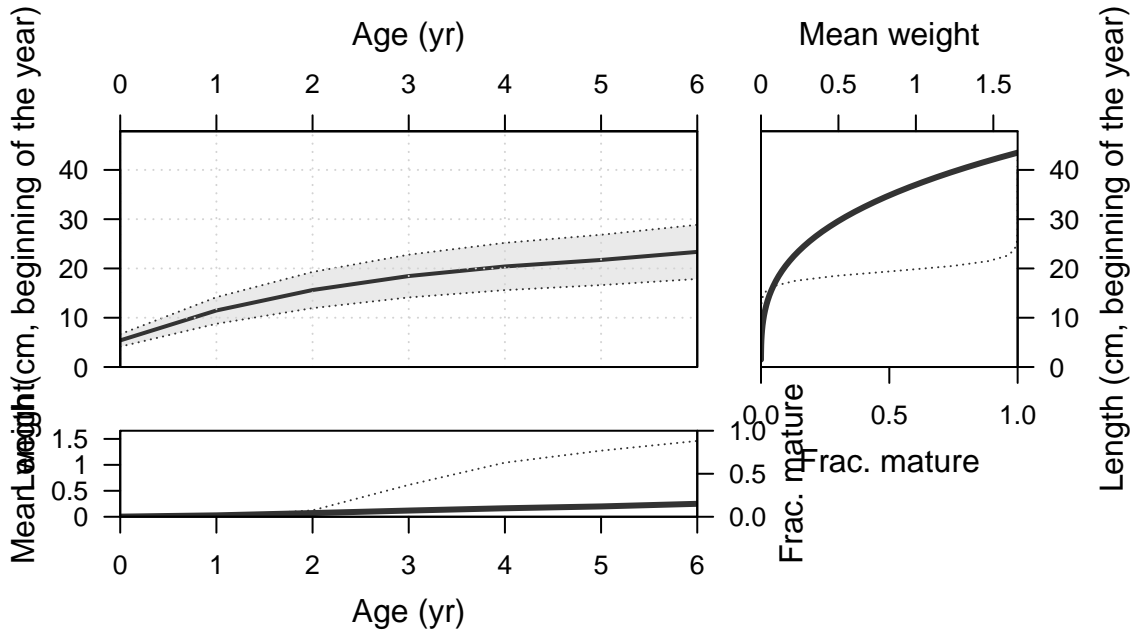
Plots created using the 'r4ss' package in R  
Stock Synthesis version: 3.30.19.0  
StartTime: Fri Jul 22 14:23:30 2022  
Data\_File: data.ss  
Control\_File: control.ss

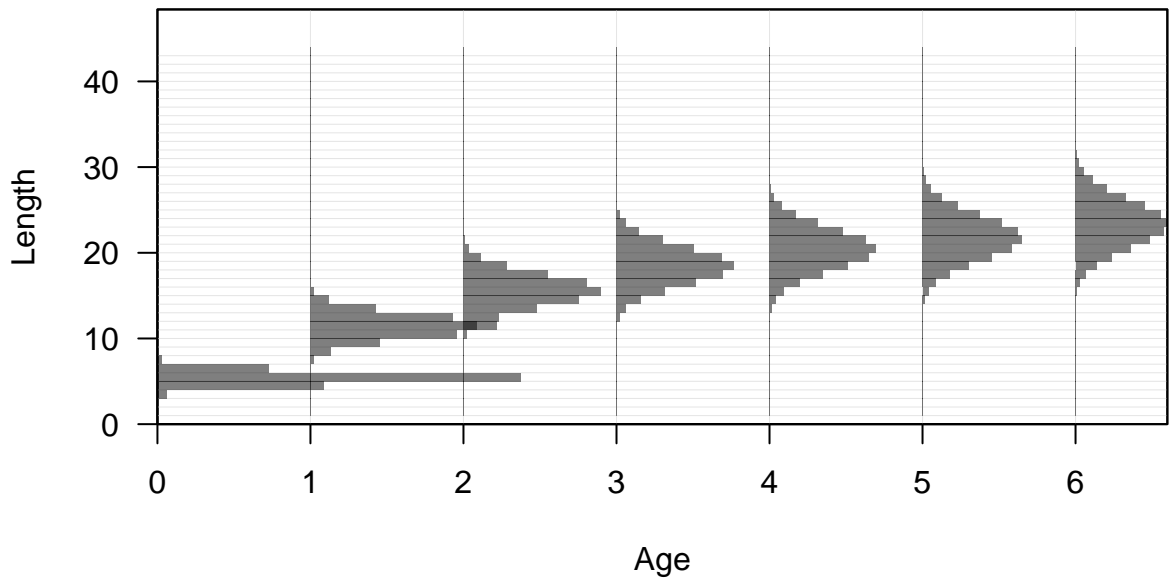
Length (cm, beginning of the year)

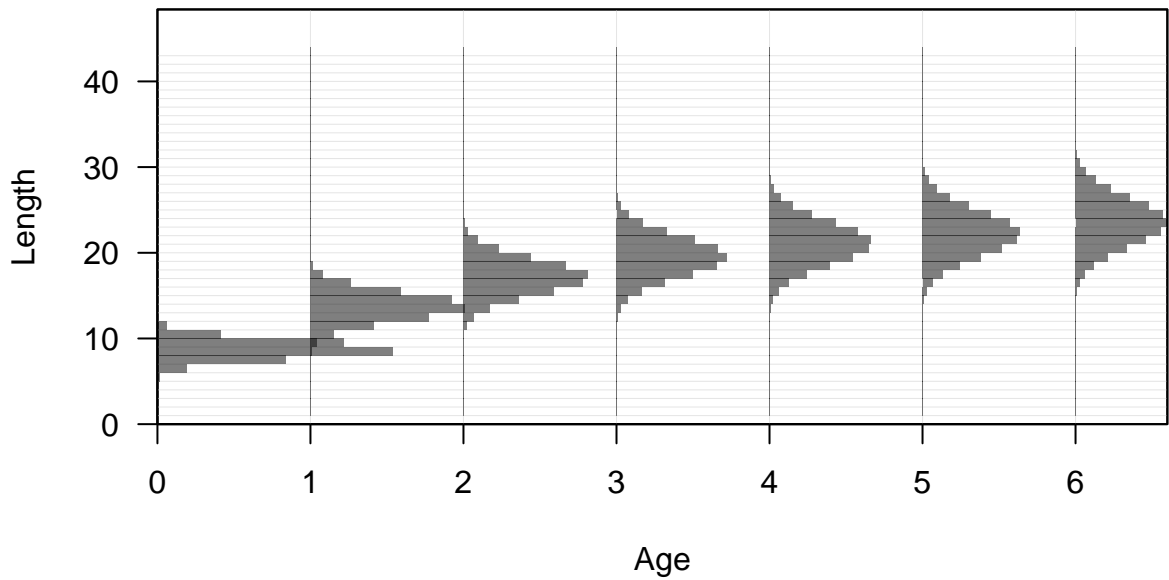


Age (yr)

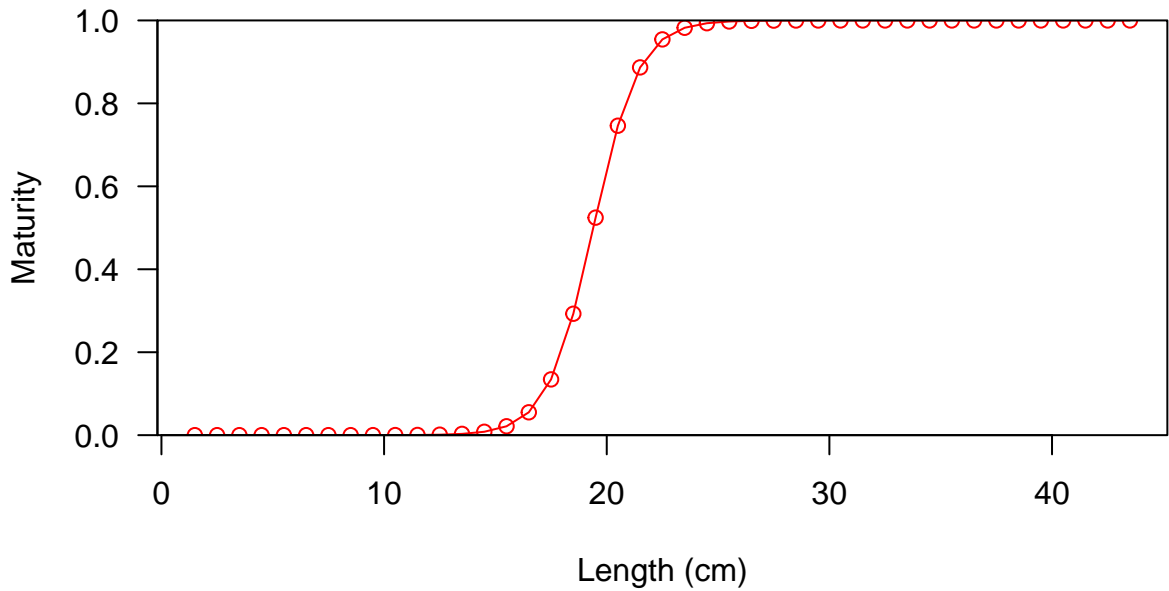










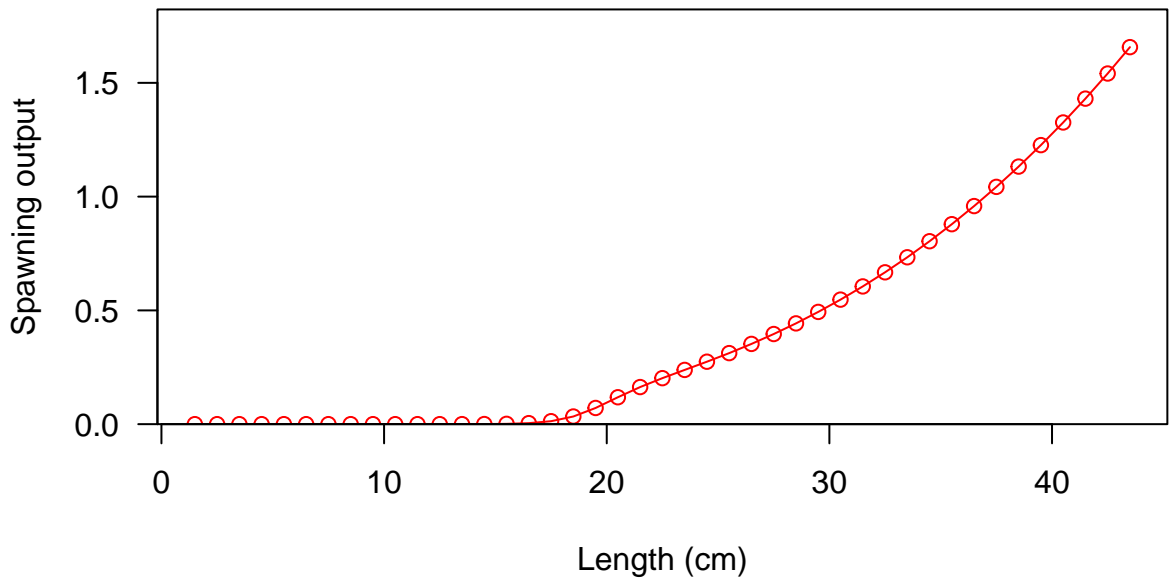


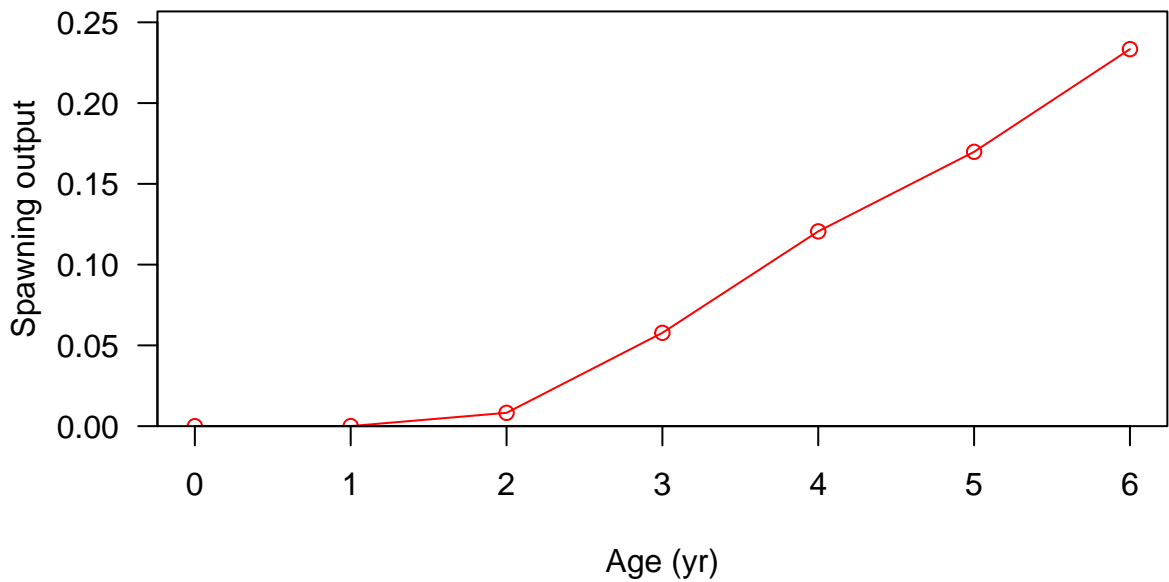




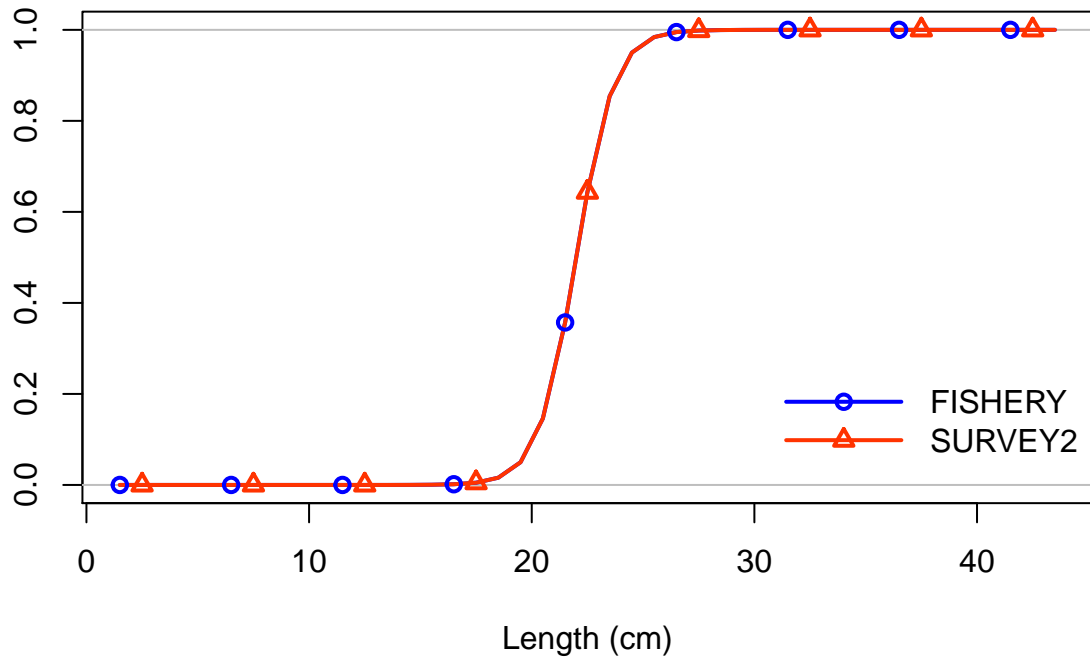




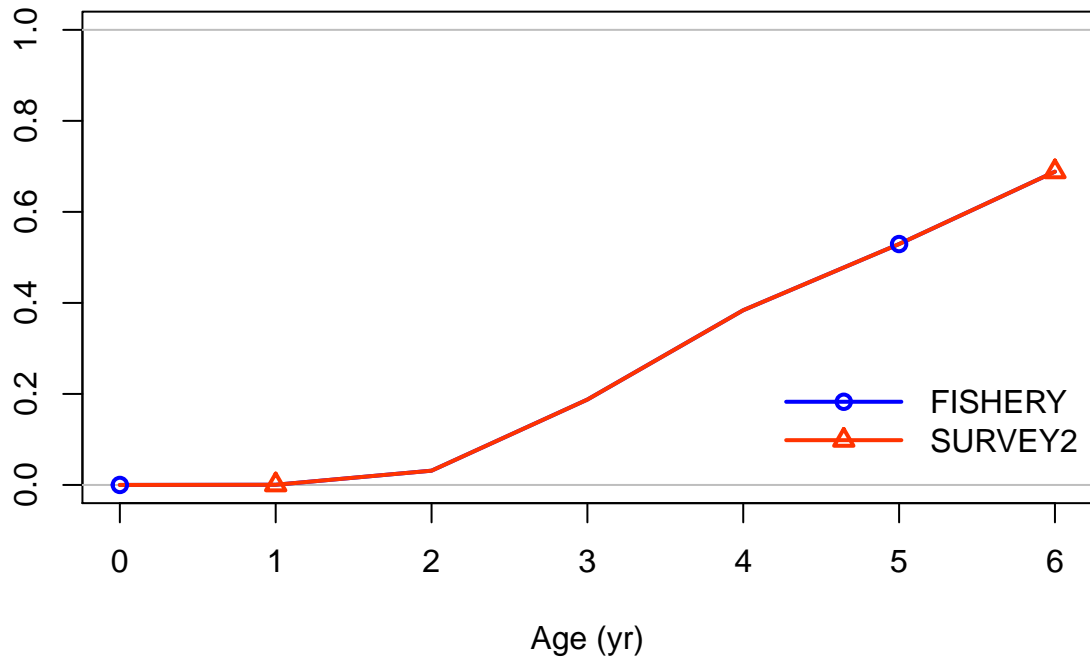




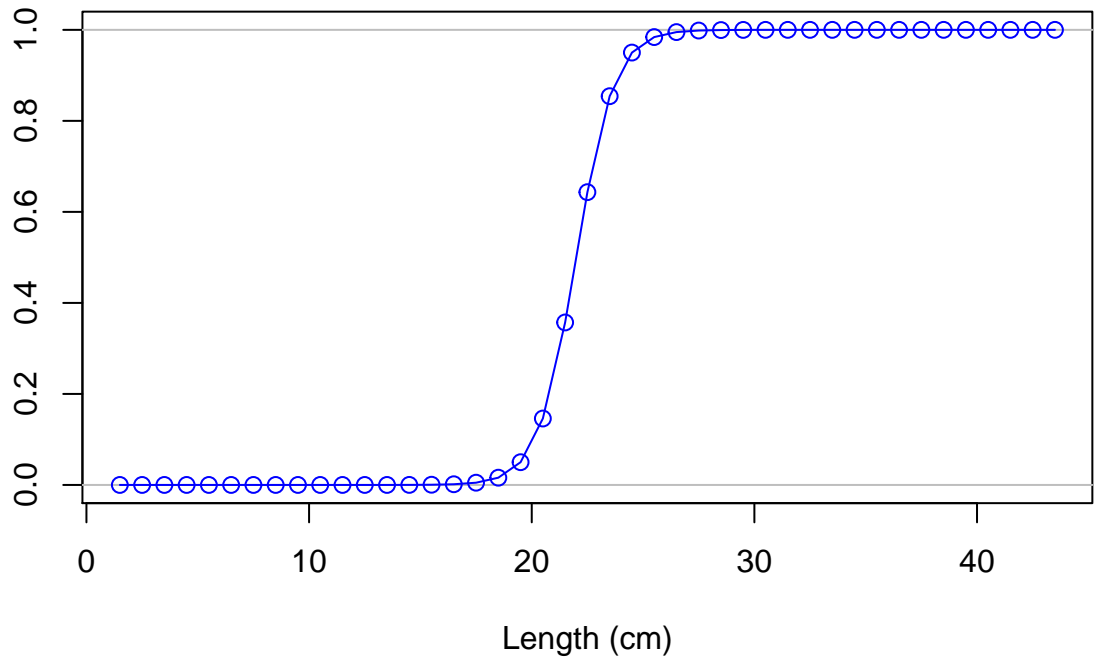
Selectivity



Selectivity

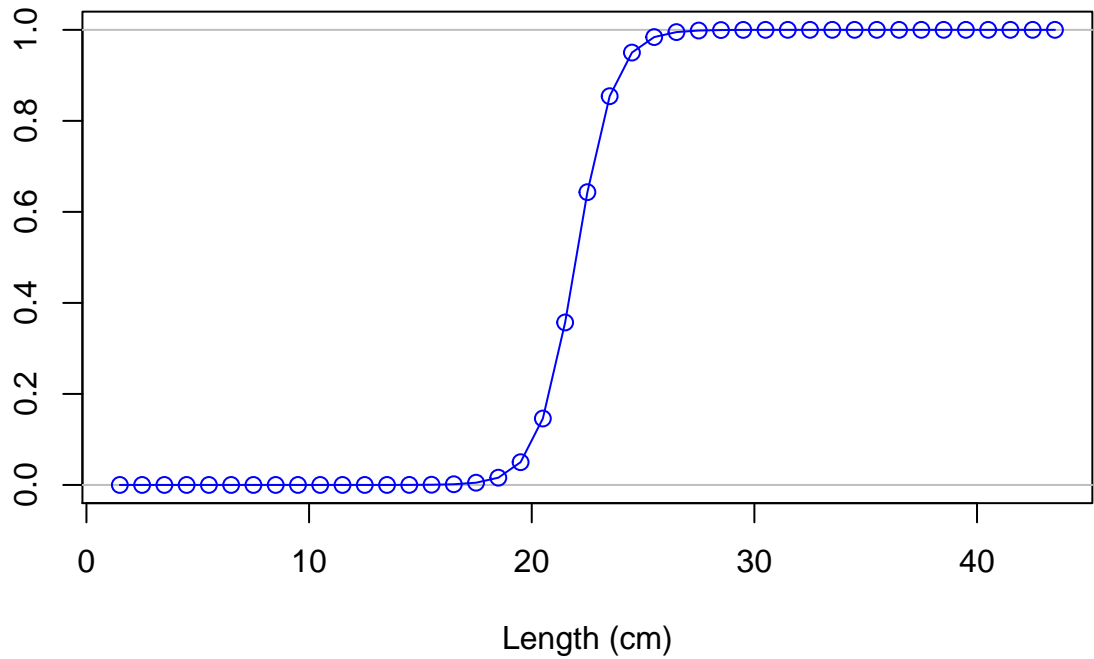


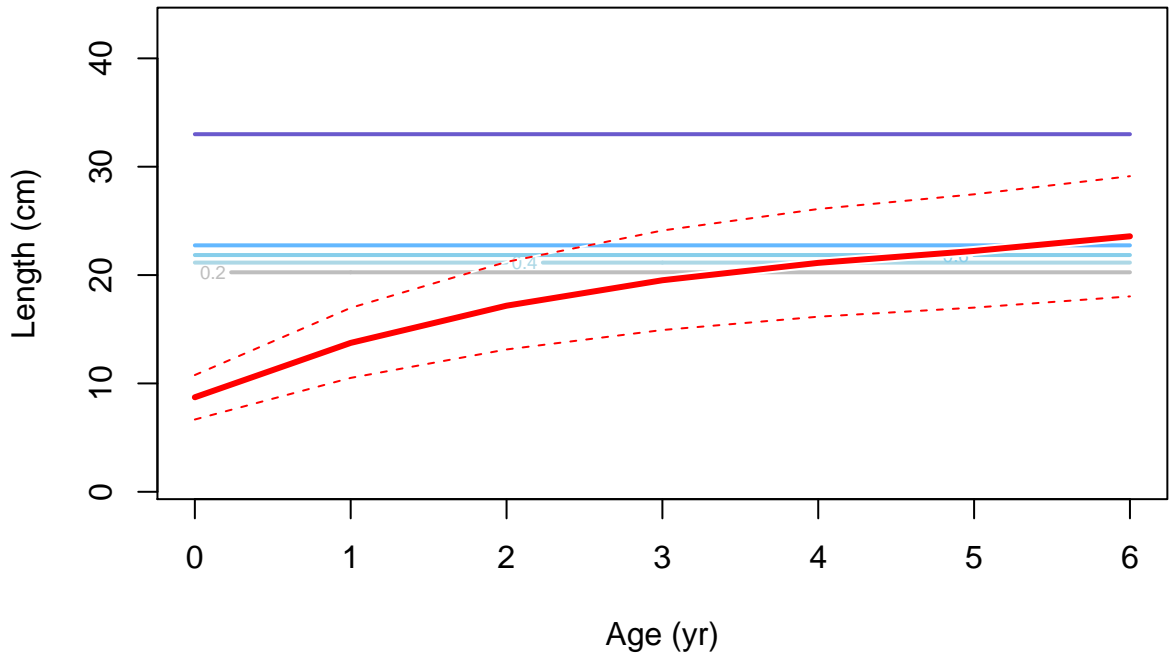
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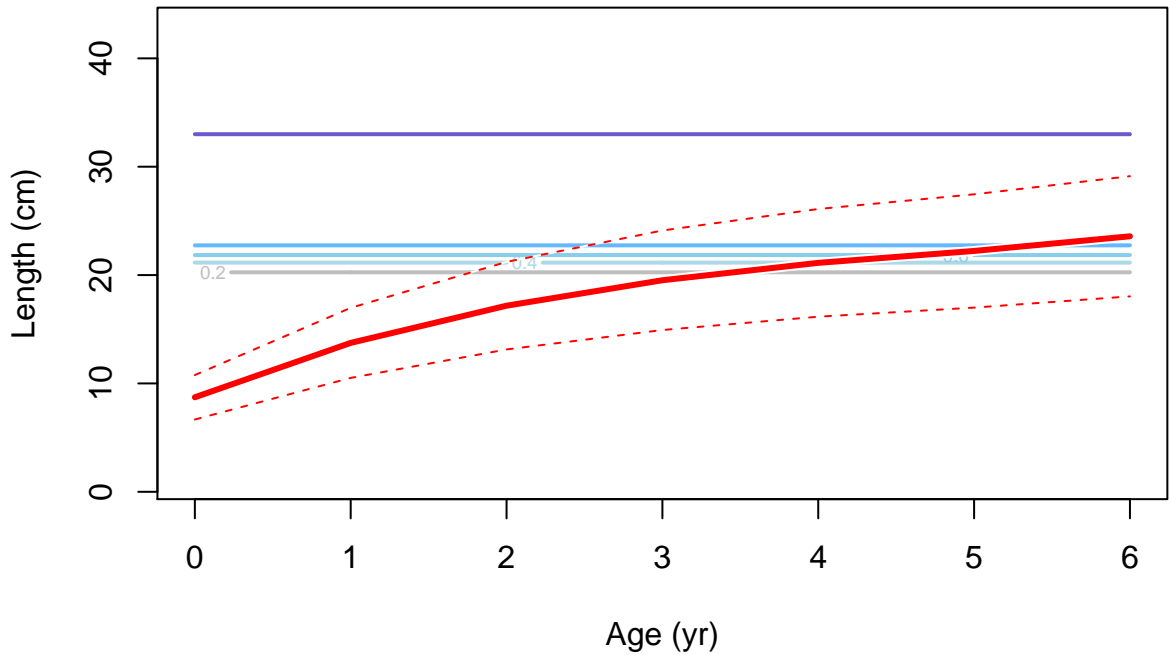




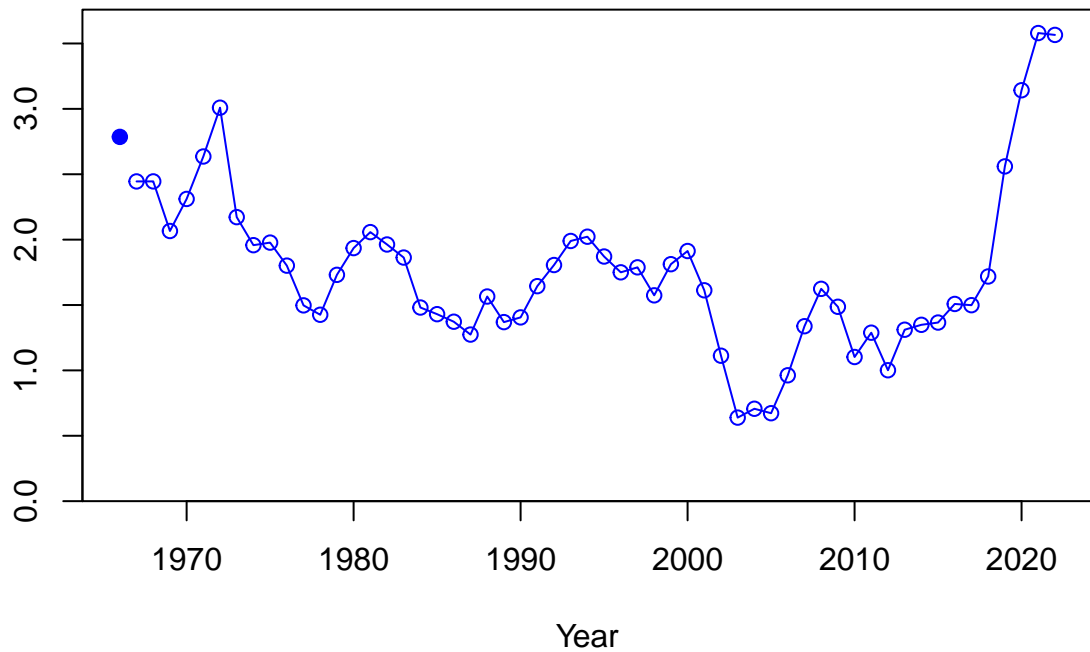
Selectivity



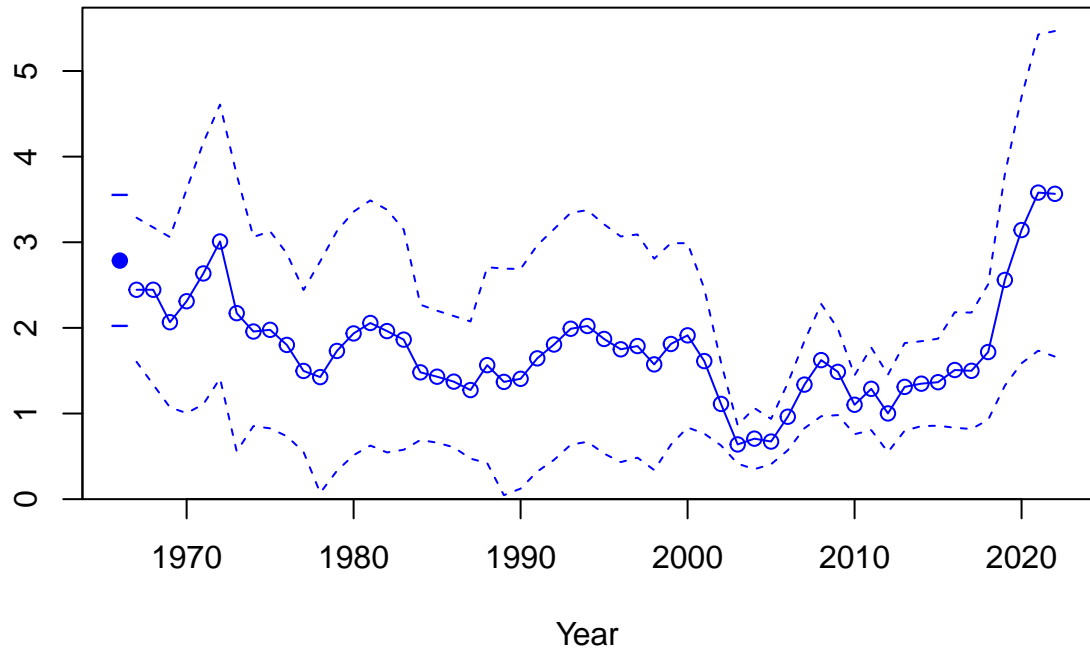




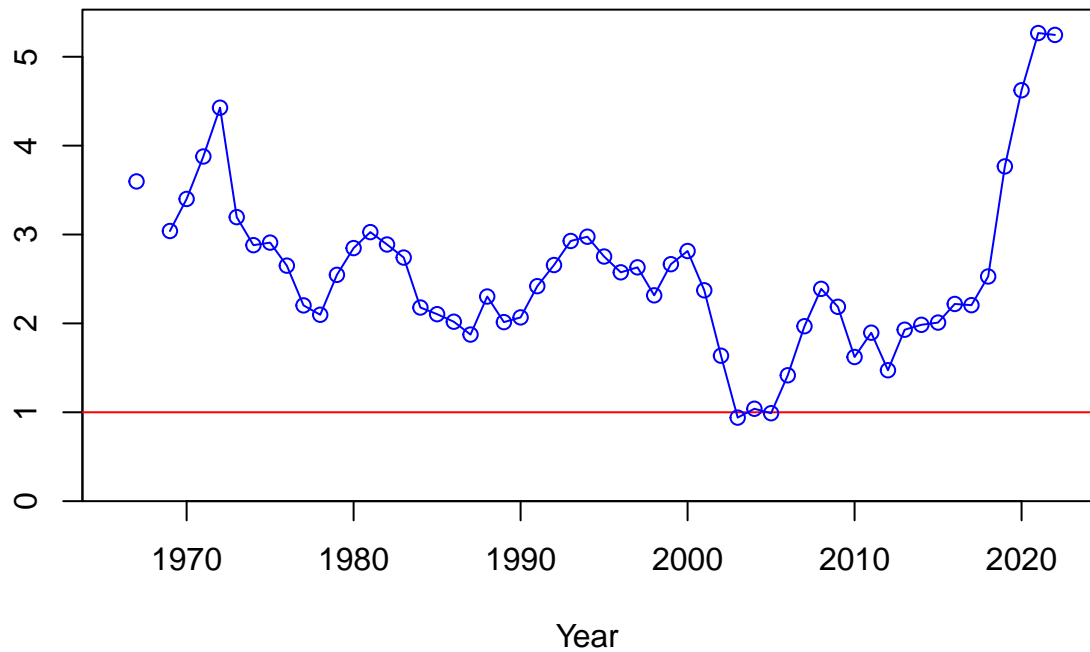
Spawning biomass (mt)



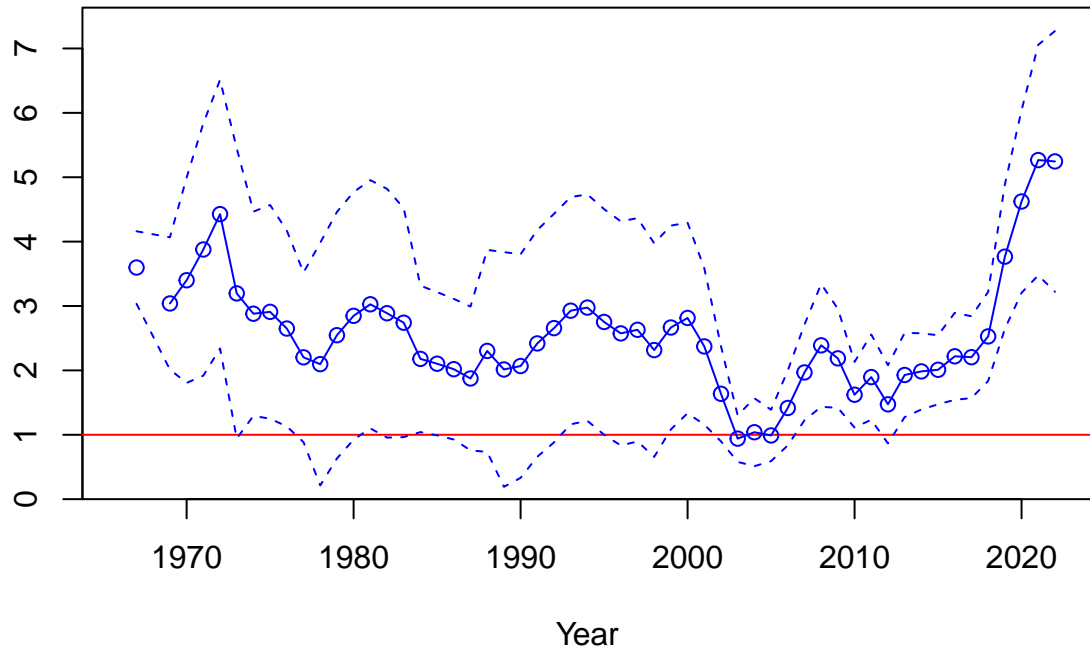
Spawning biomass (mt)

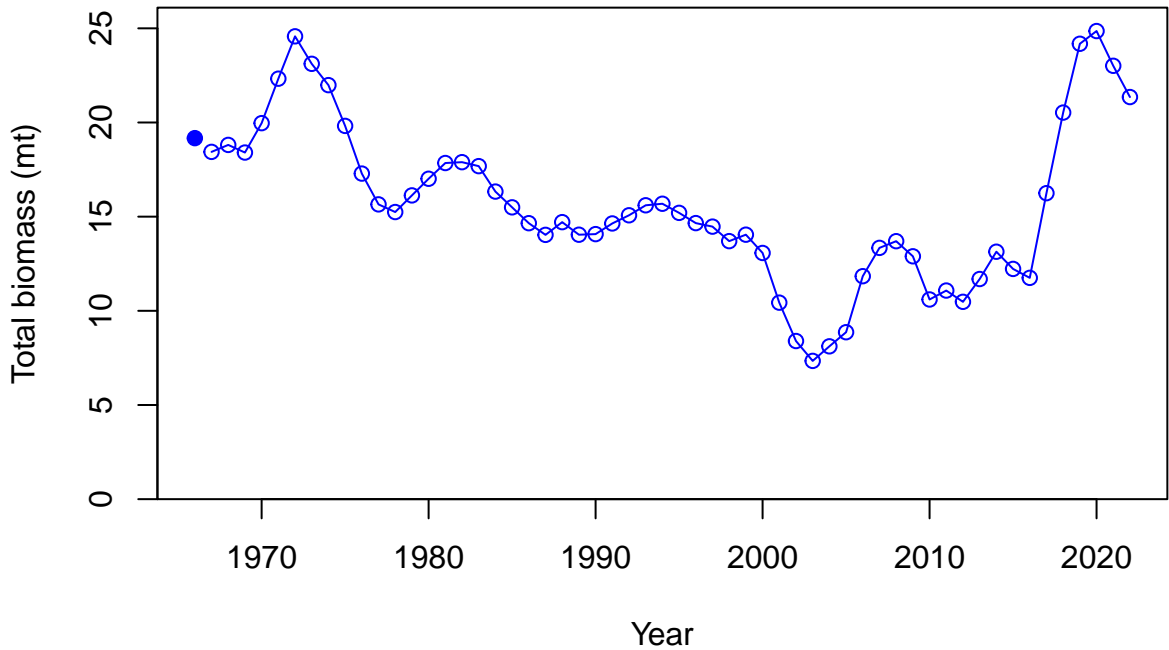


Relative spawning biomass:  $B/B_{MSY}$



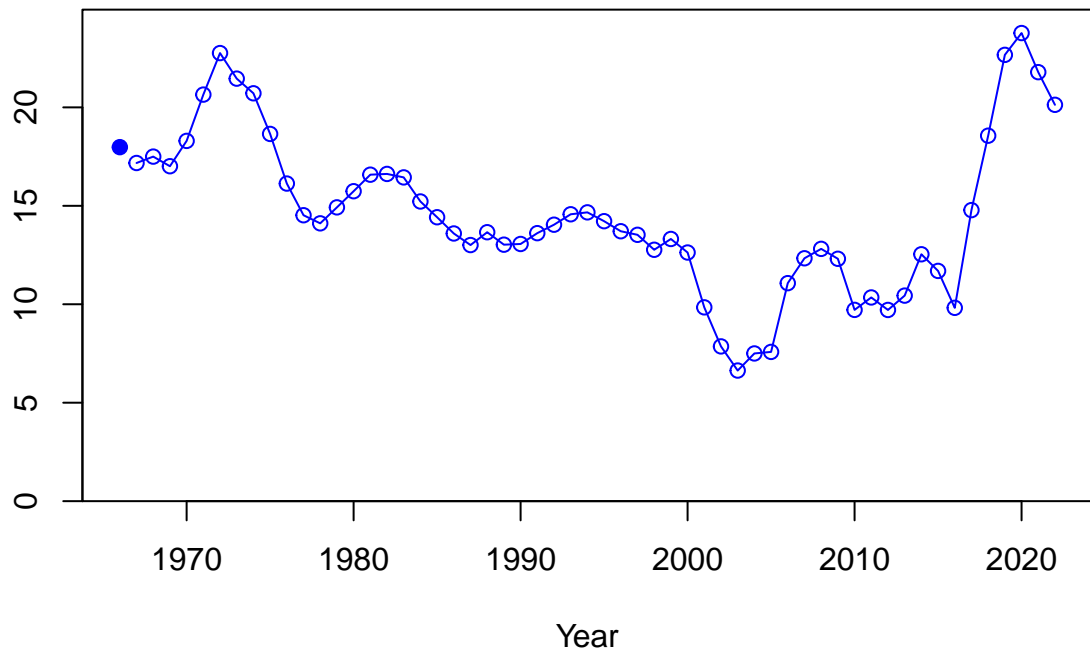
Relative spawning biomass:  $B/B_{MSY}$



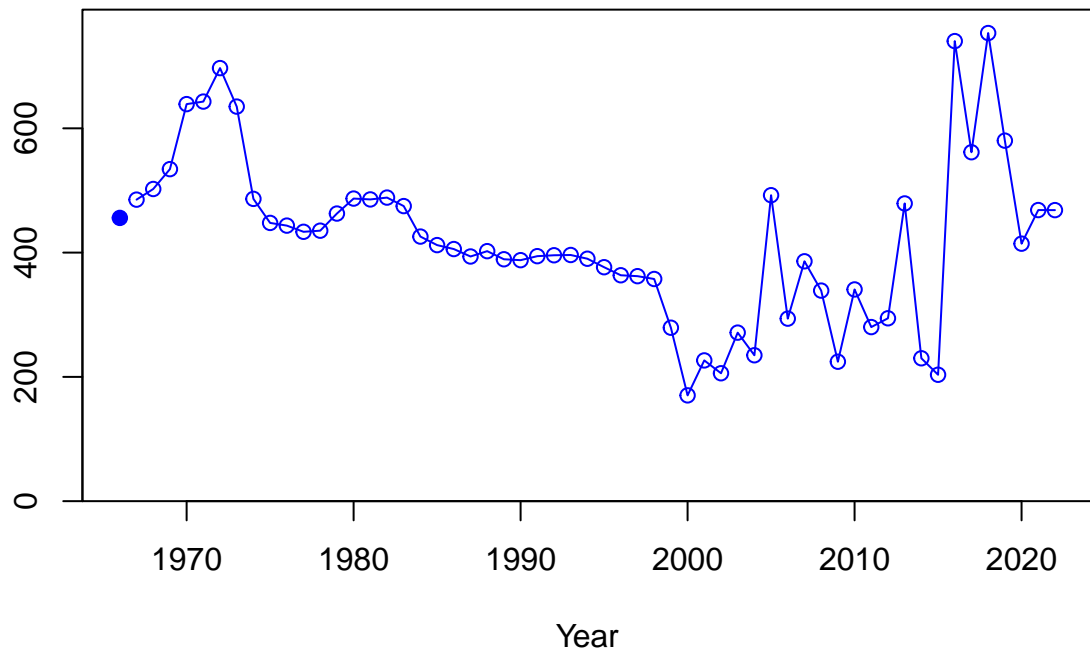




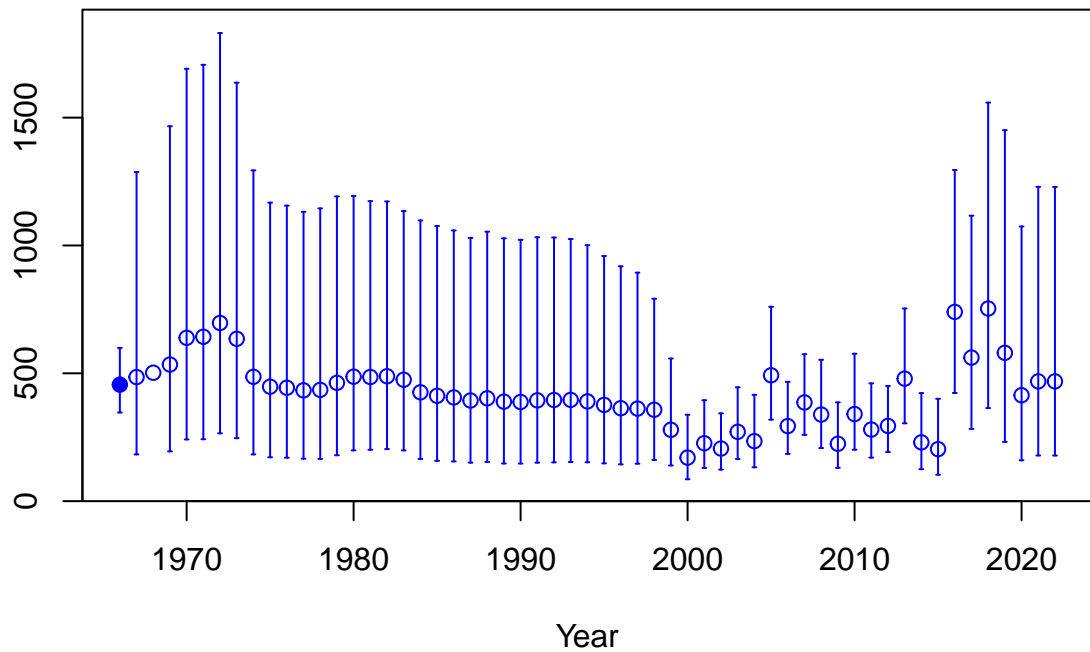
Summary biomass (mt)



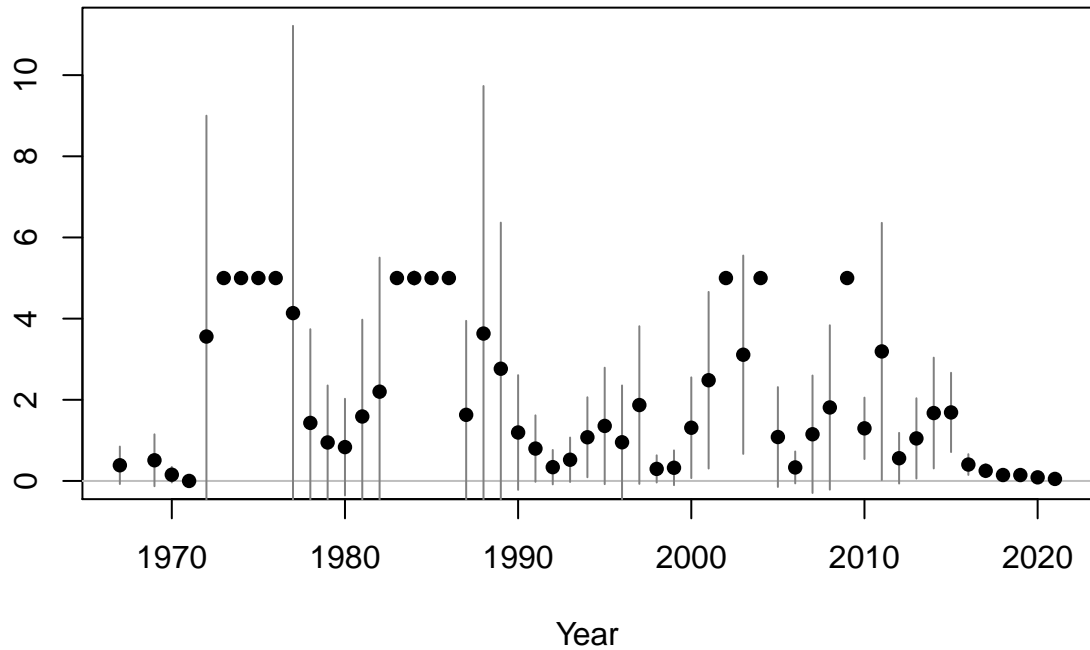
Age-0 recruits (1,000s)

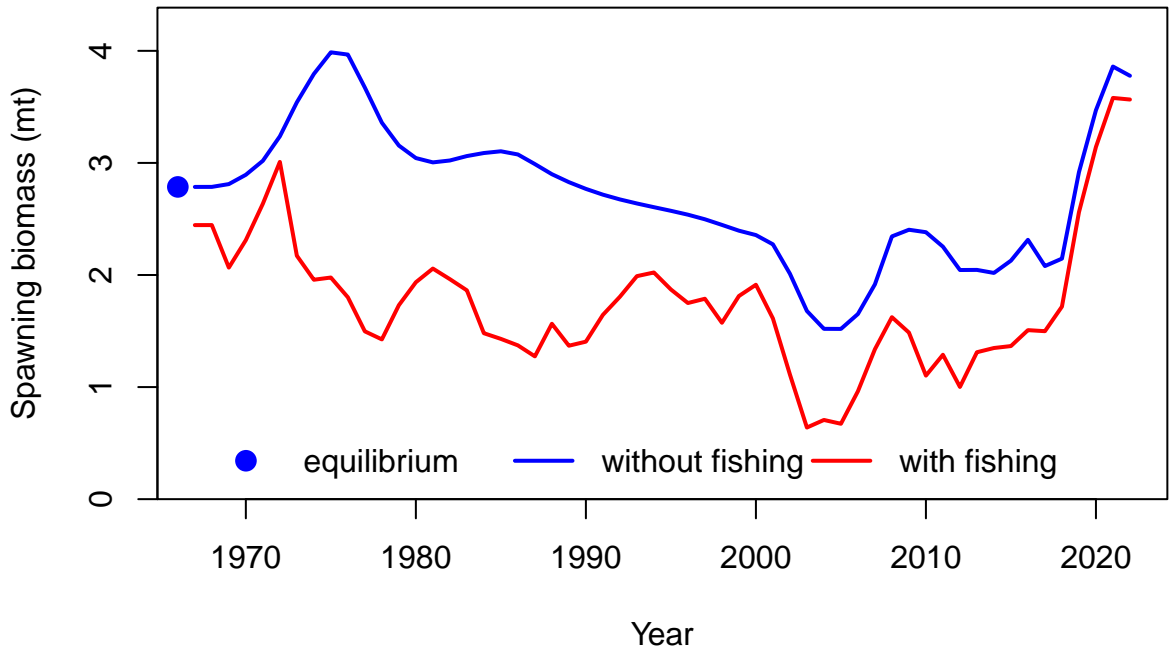


Age-0 recruits (1,000s)

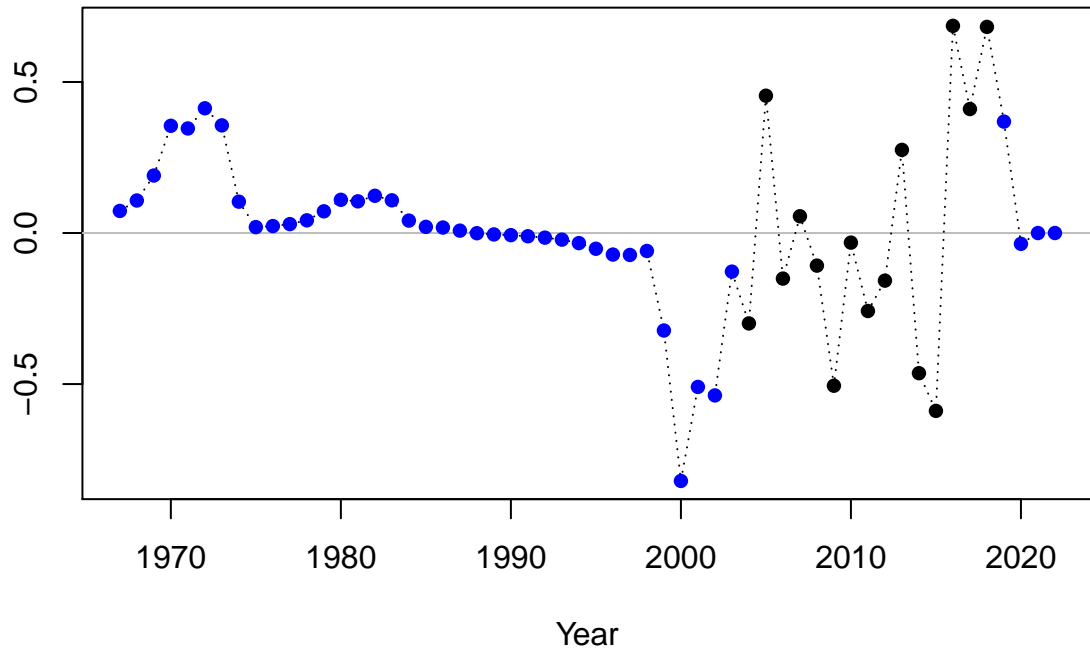


Summary Fishing Mortality

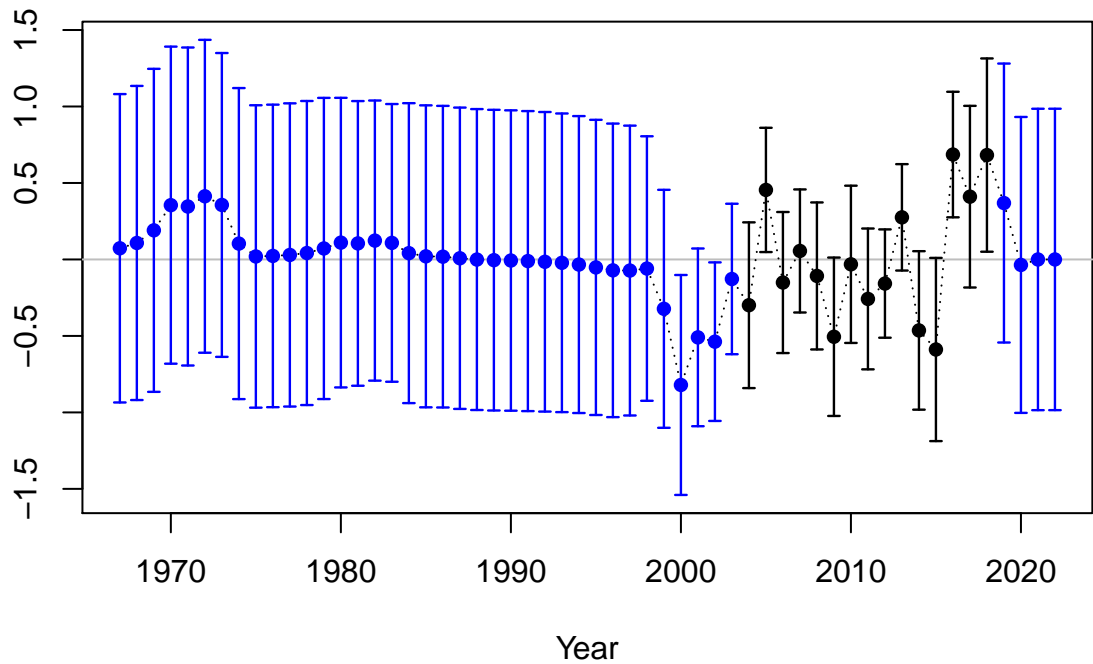




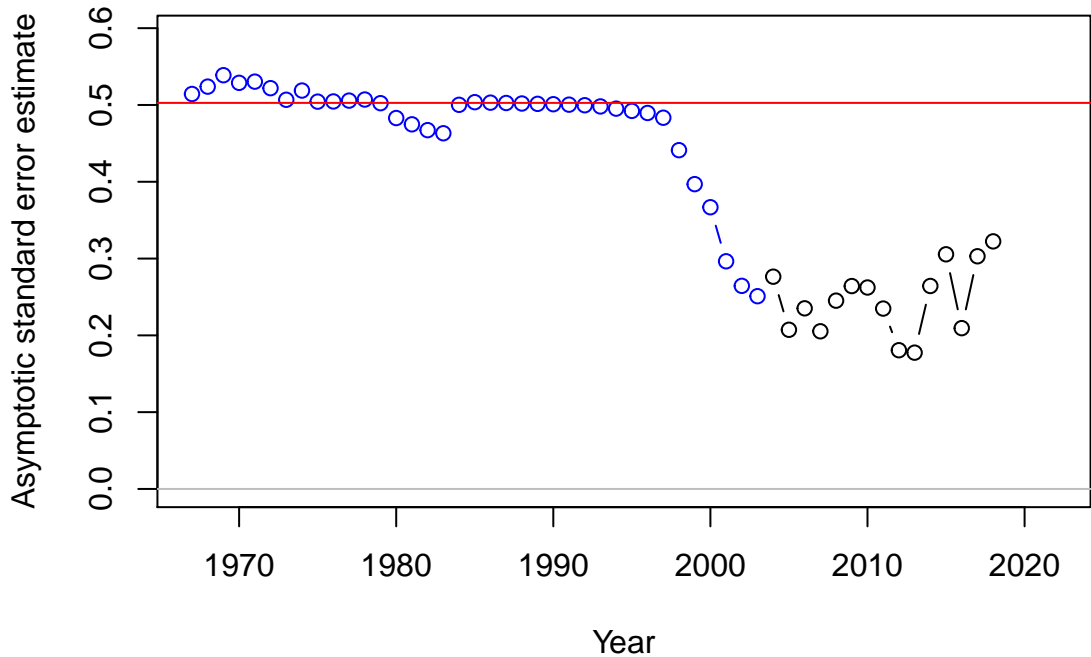
Log recruitment deviation



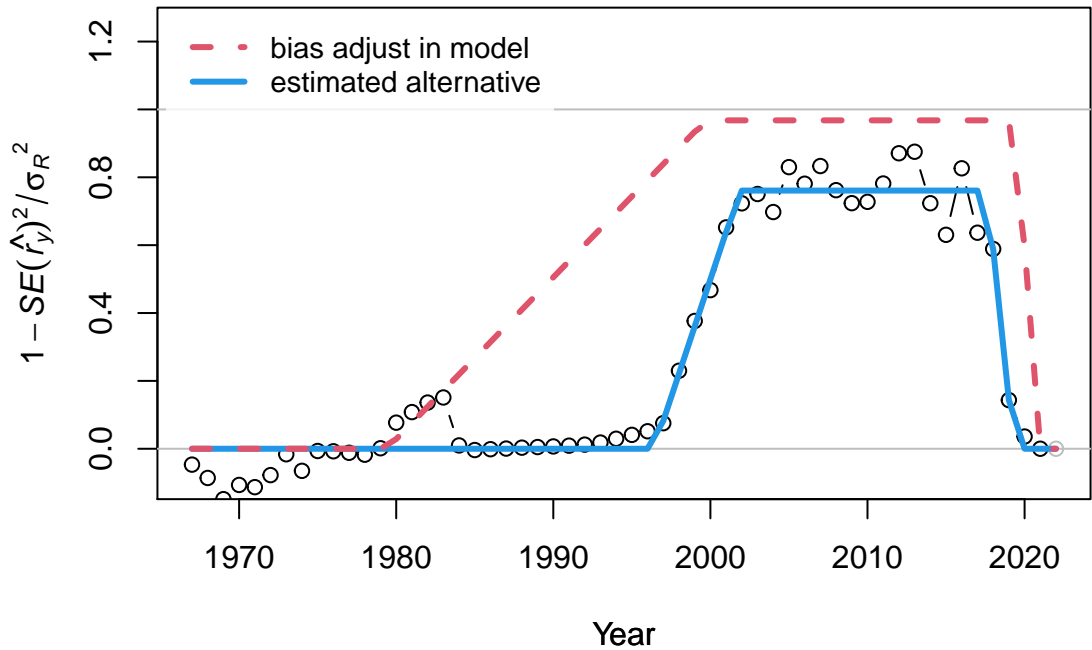
Log recruitment deviation

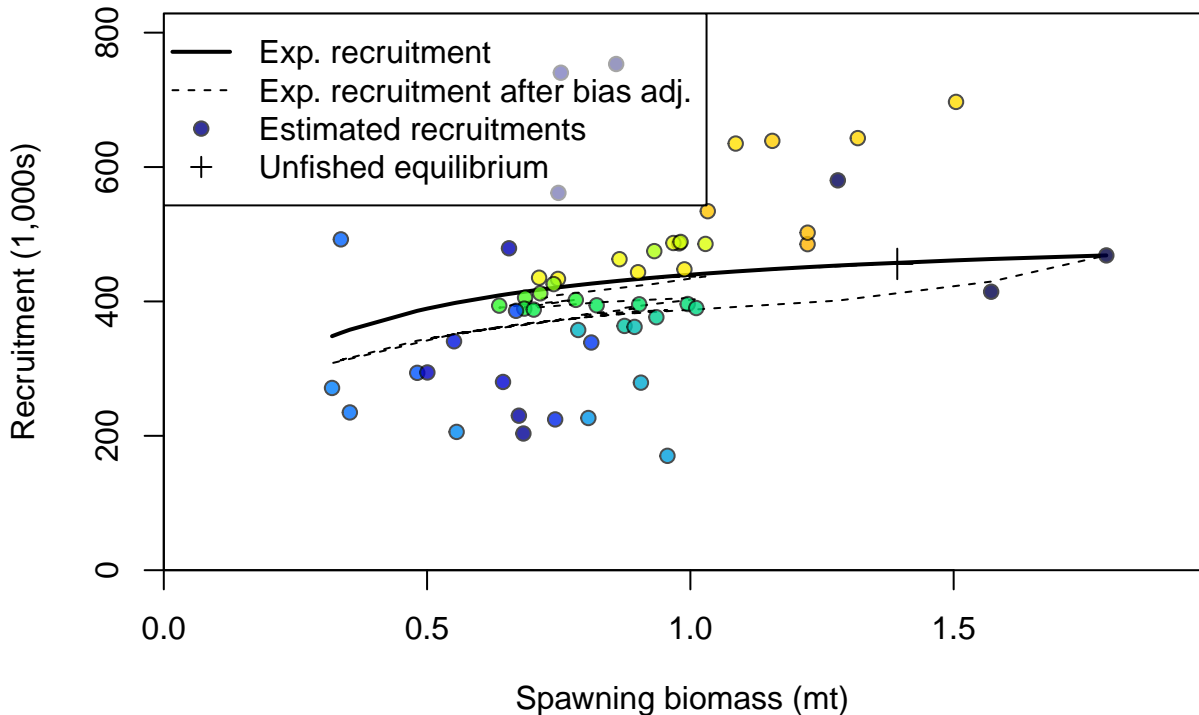


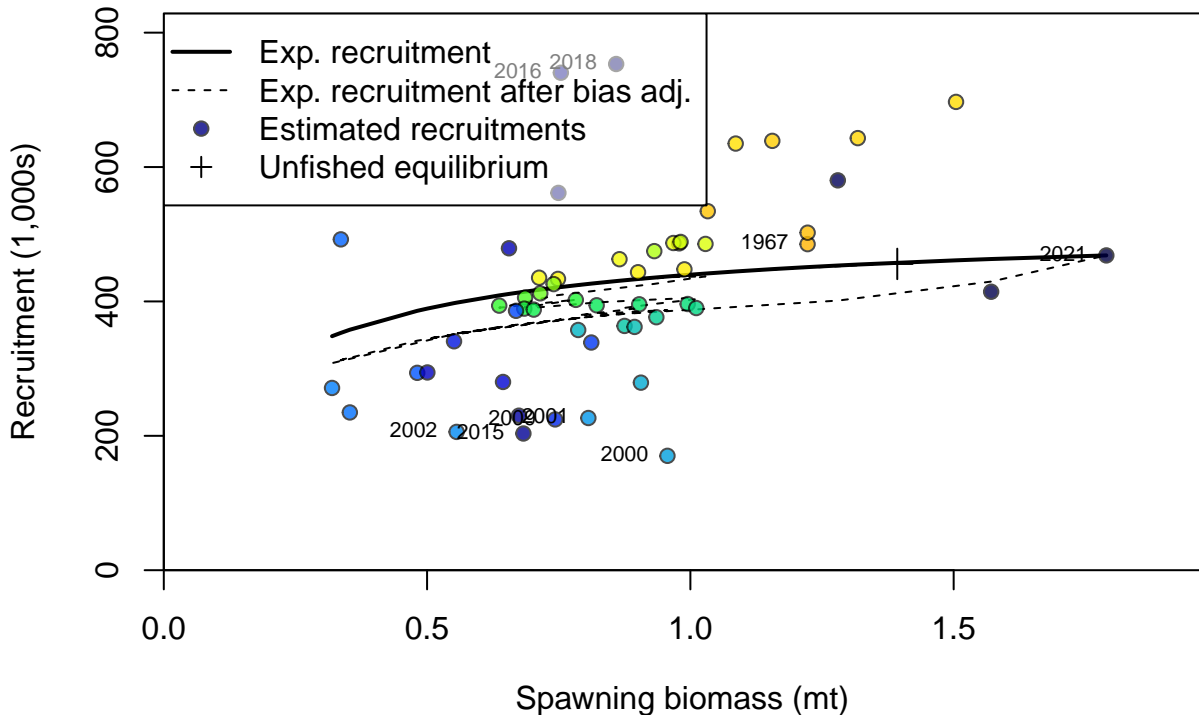
## Recruitment deviation variance

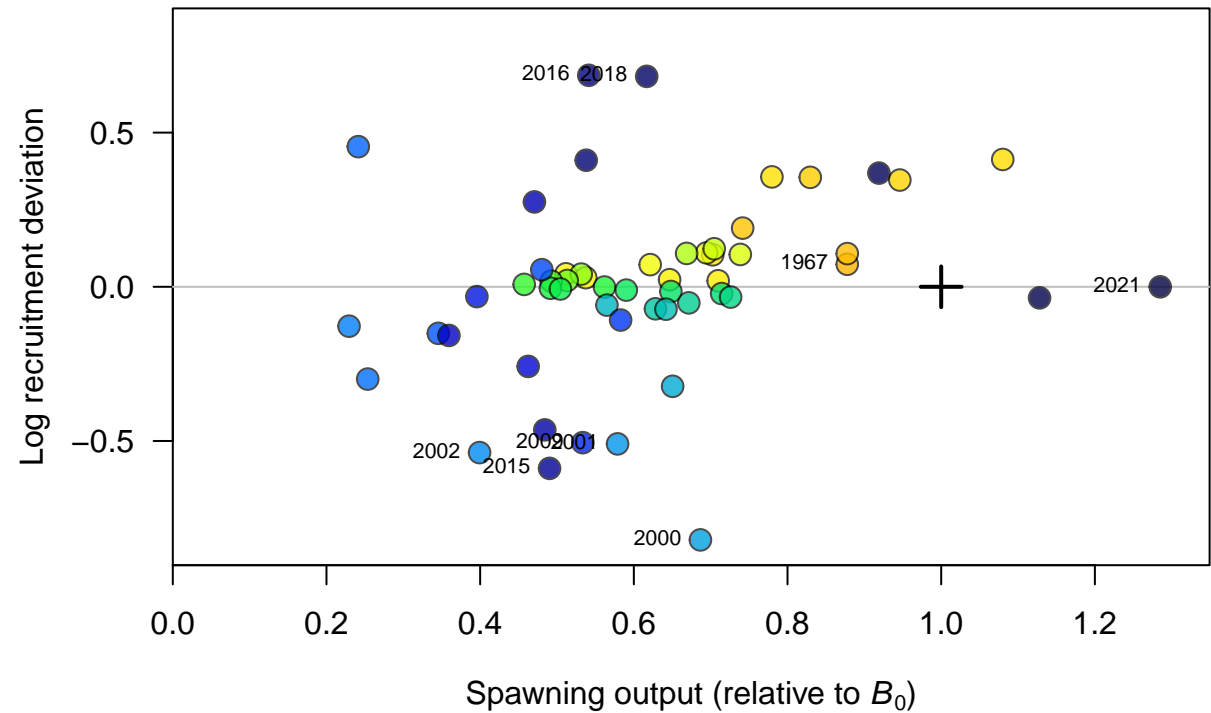


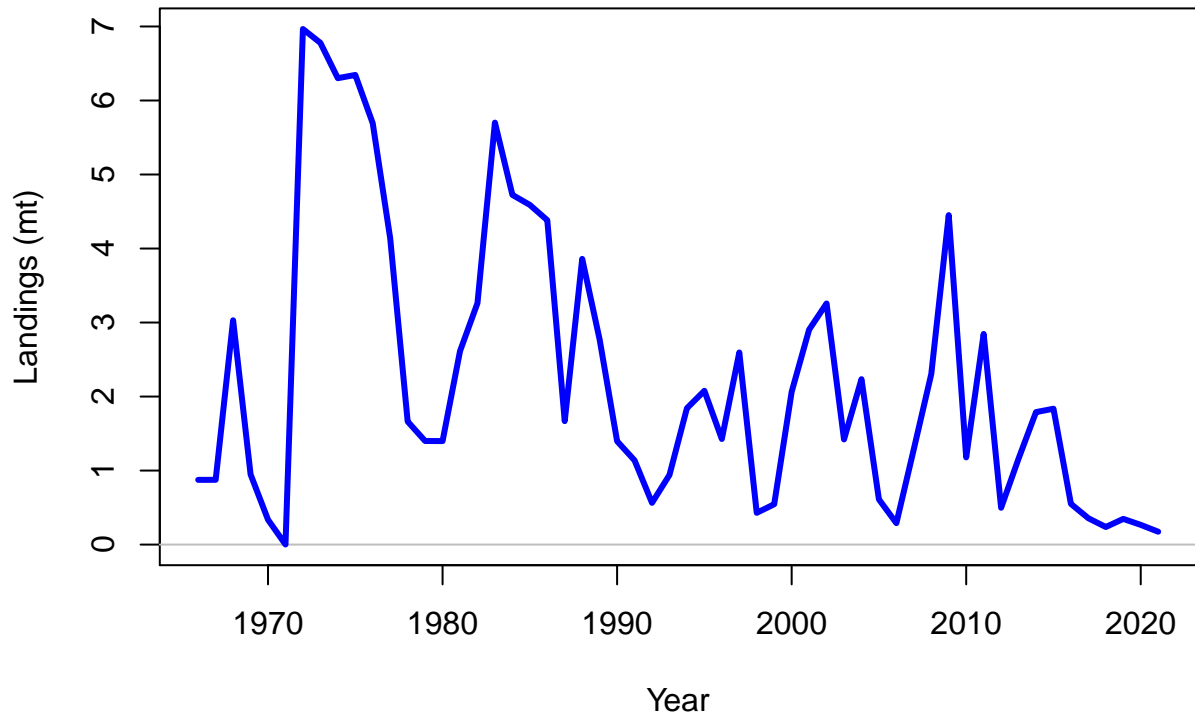


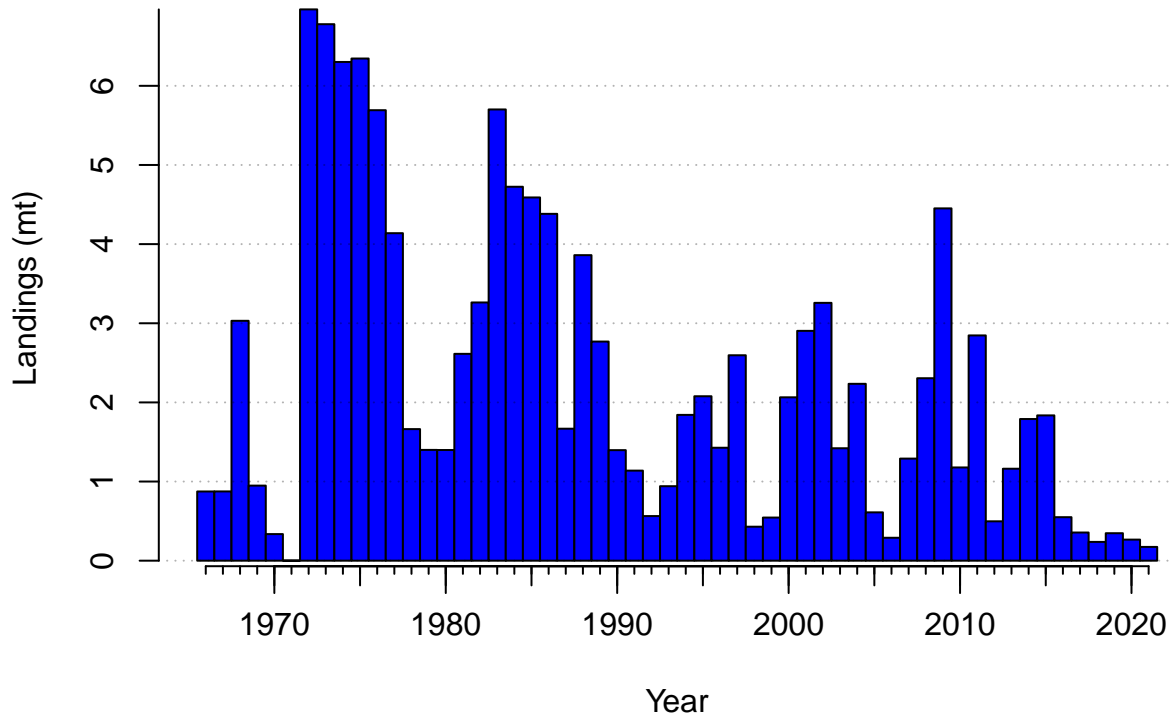




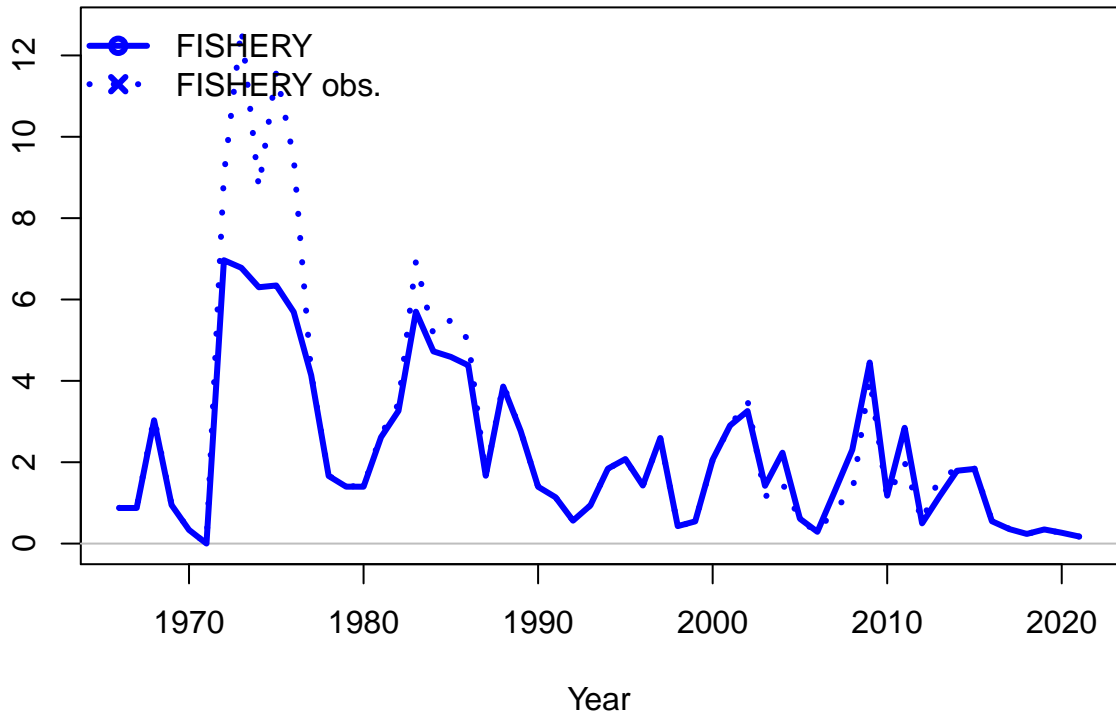


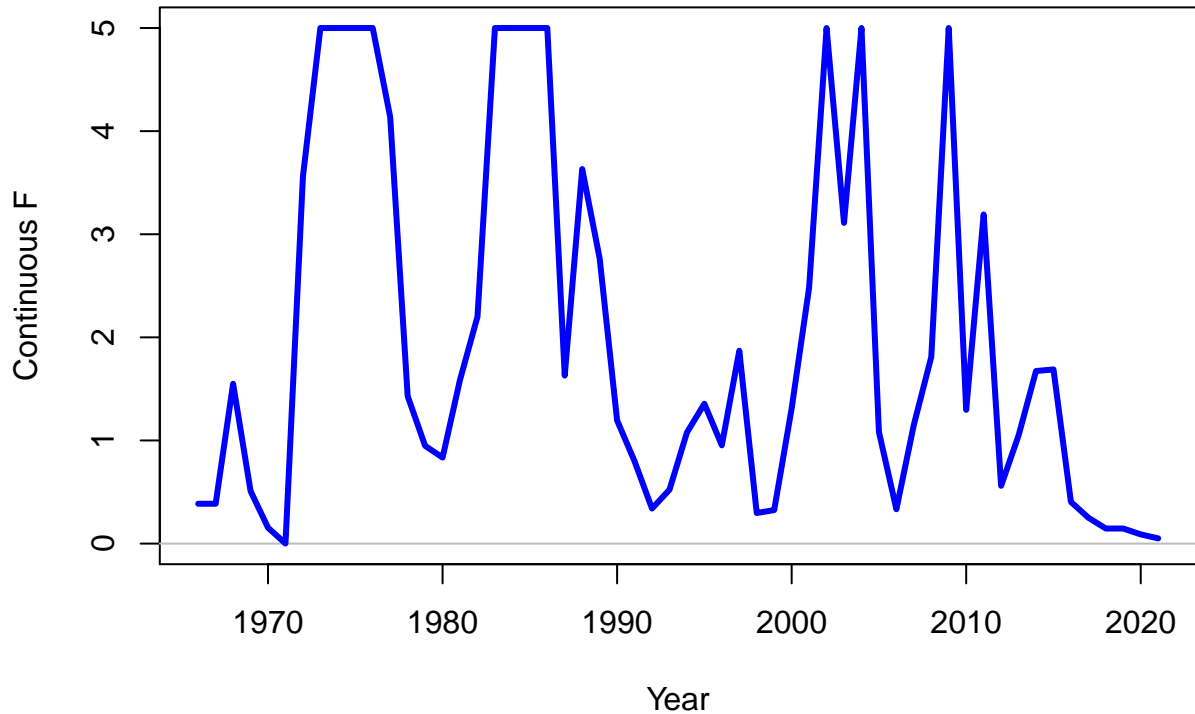






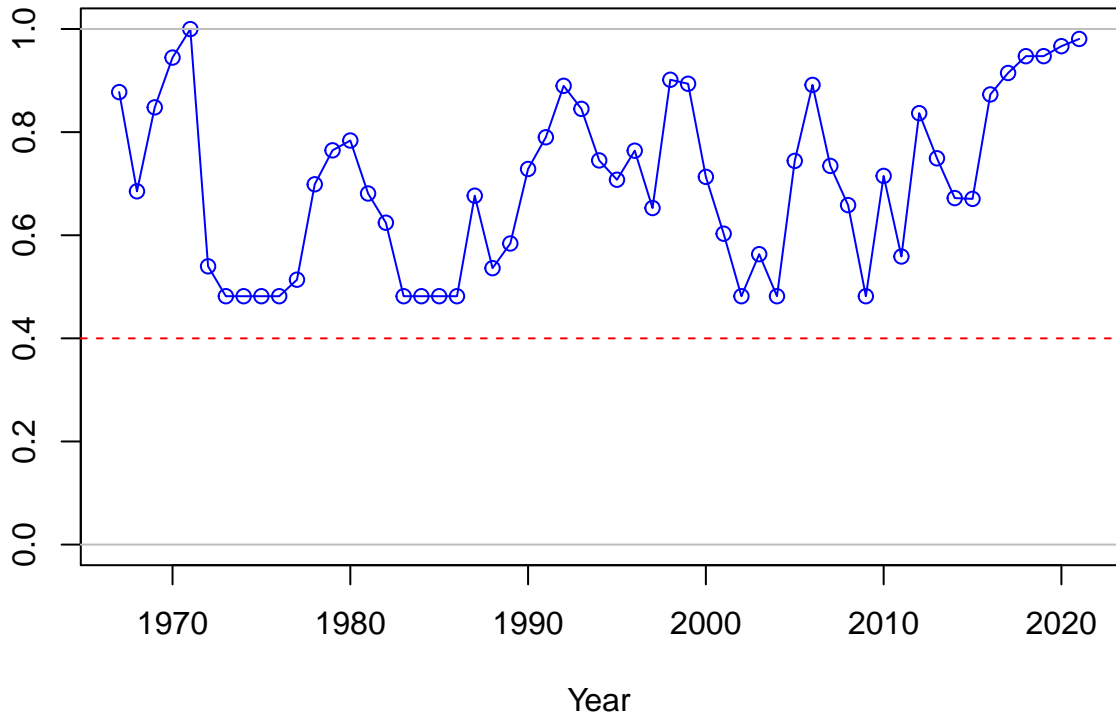
Observed and expected Landings (mt)

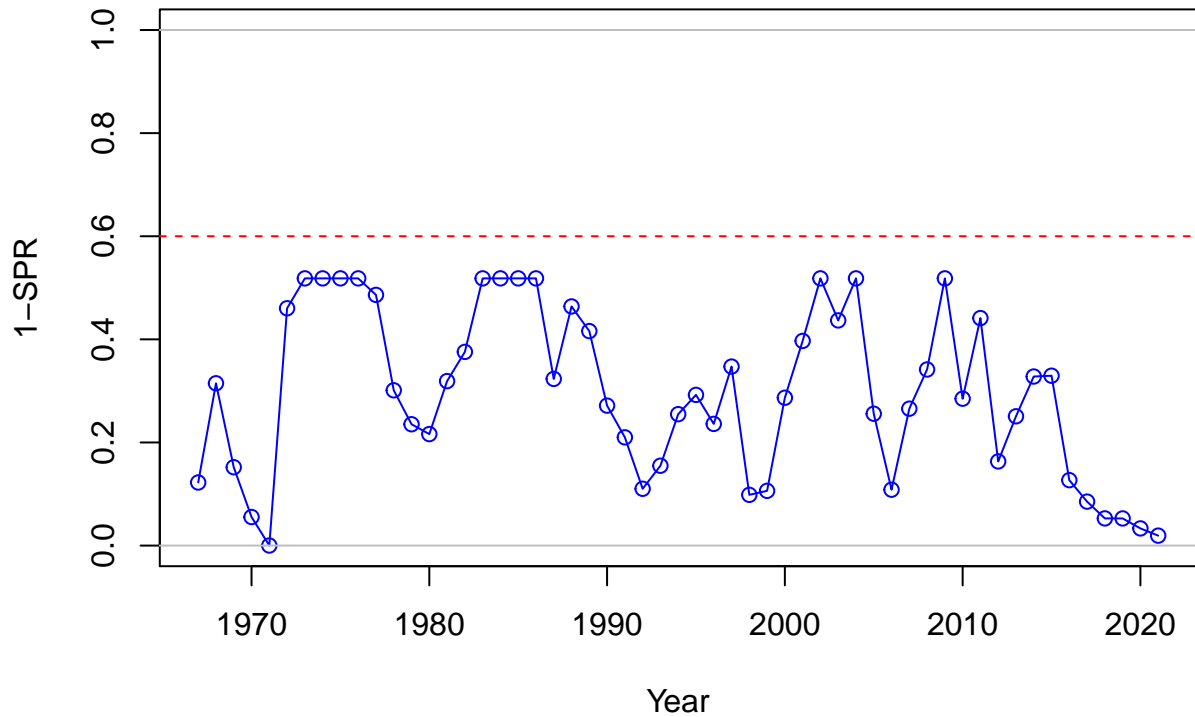




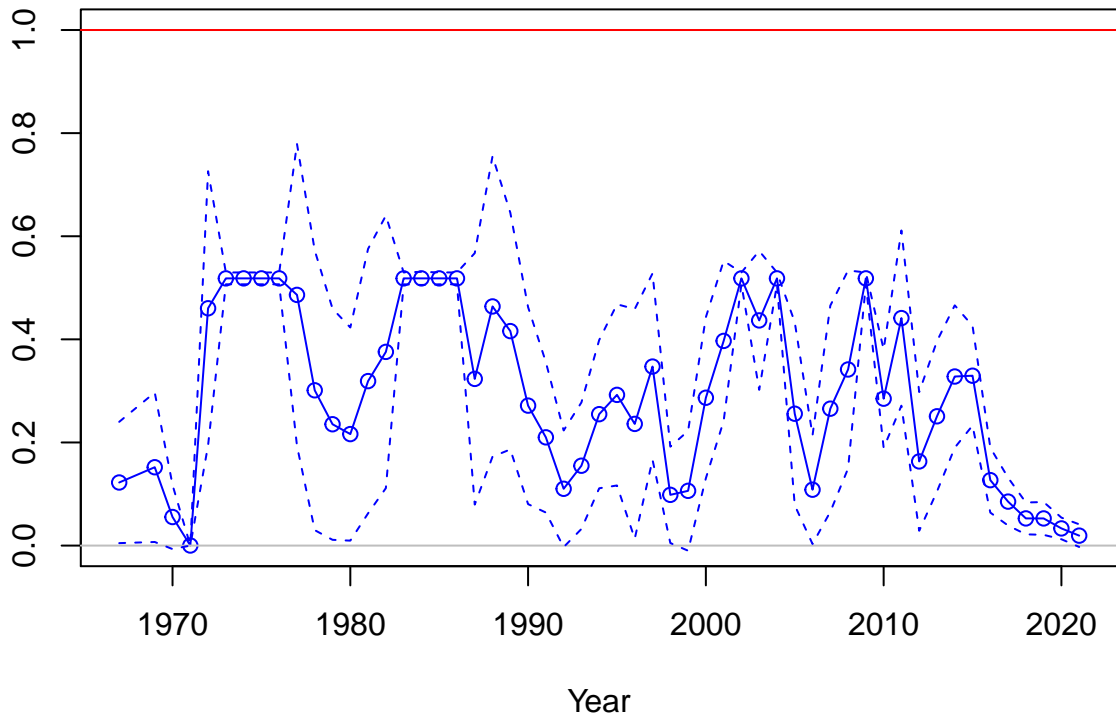


SPR

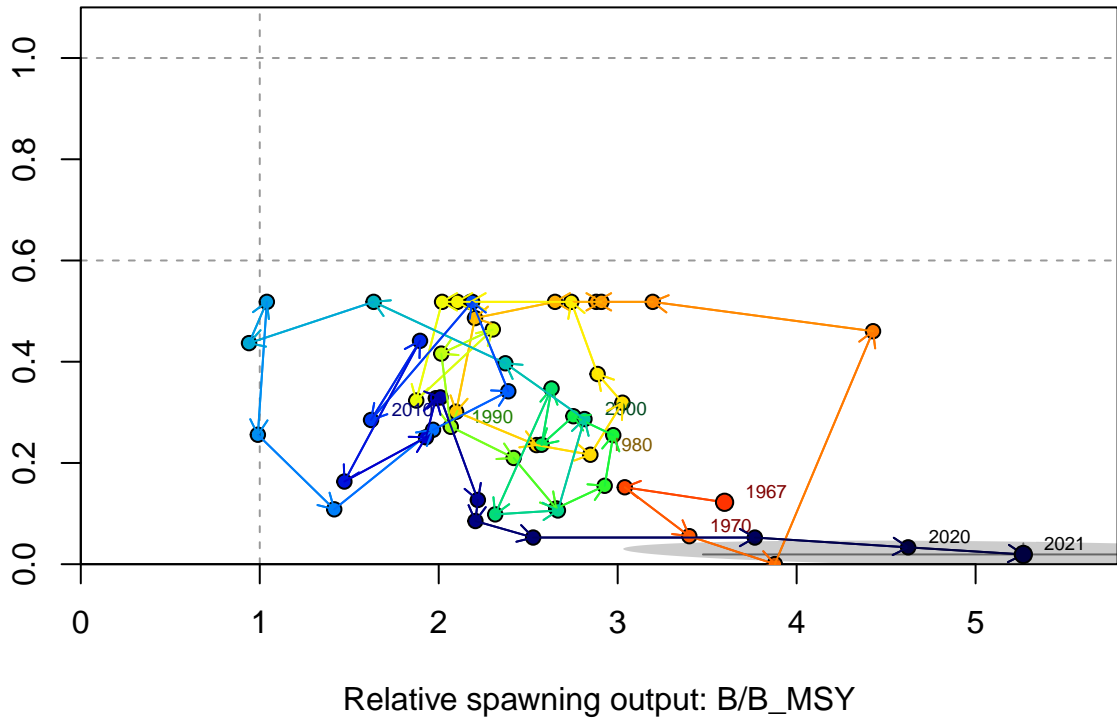




Fishing intensity: 1-SPR



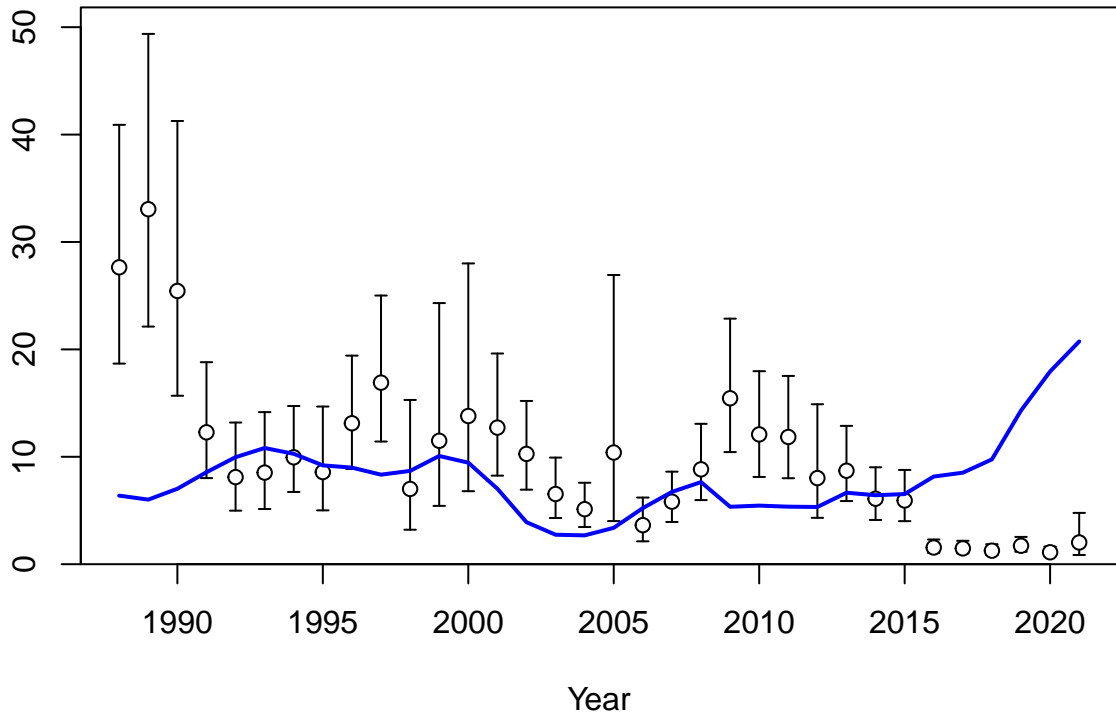
Fishing intensity: 1-SPR

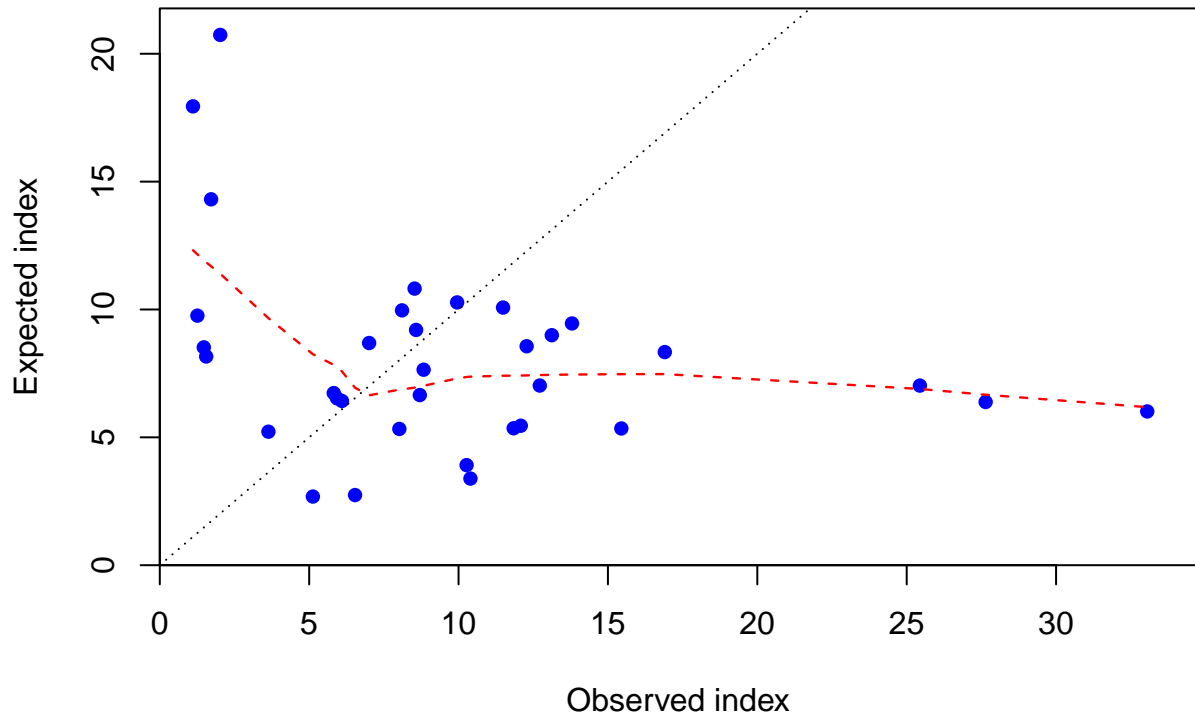


Index



Index



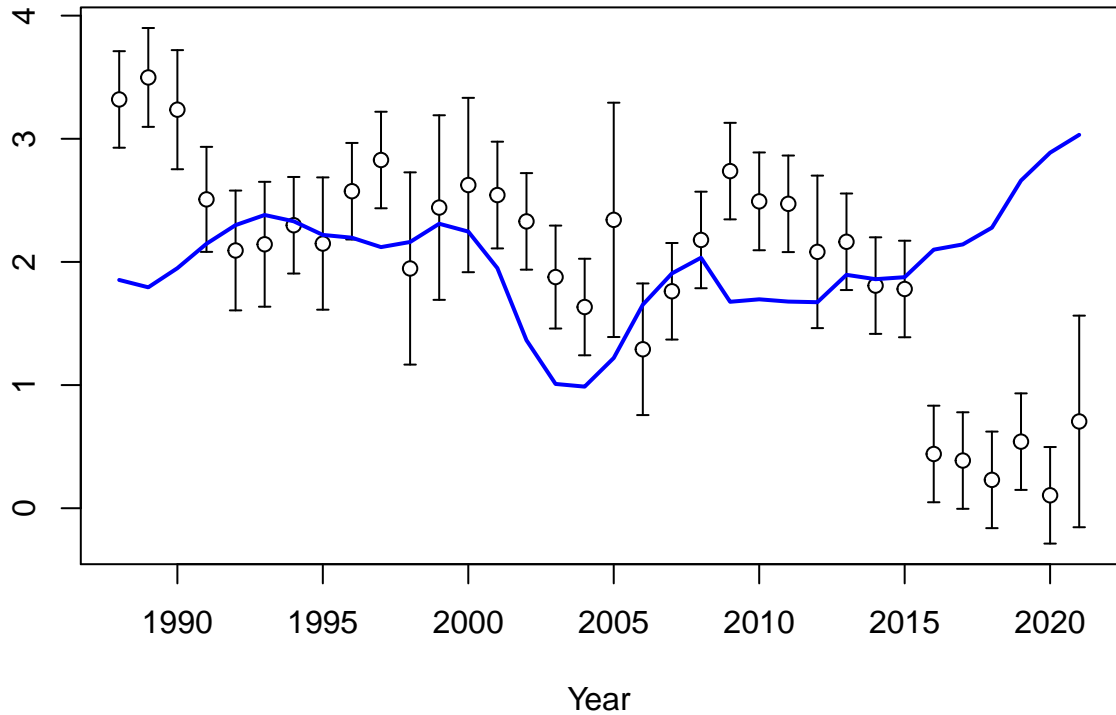


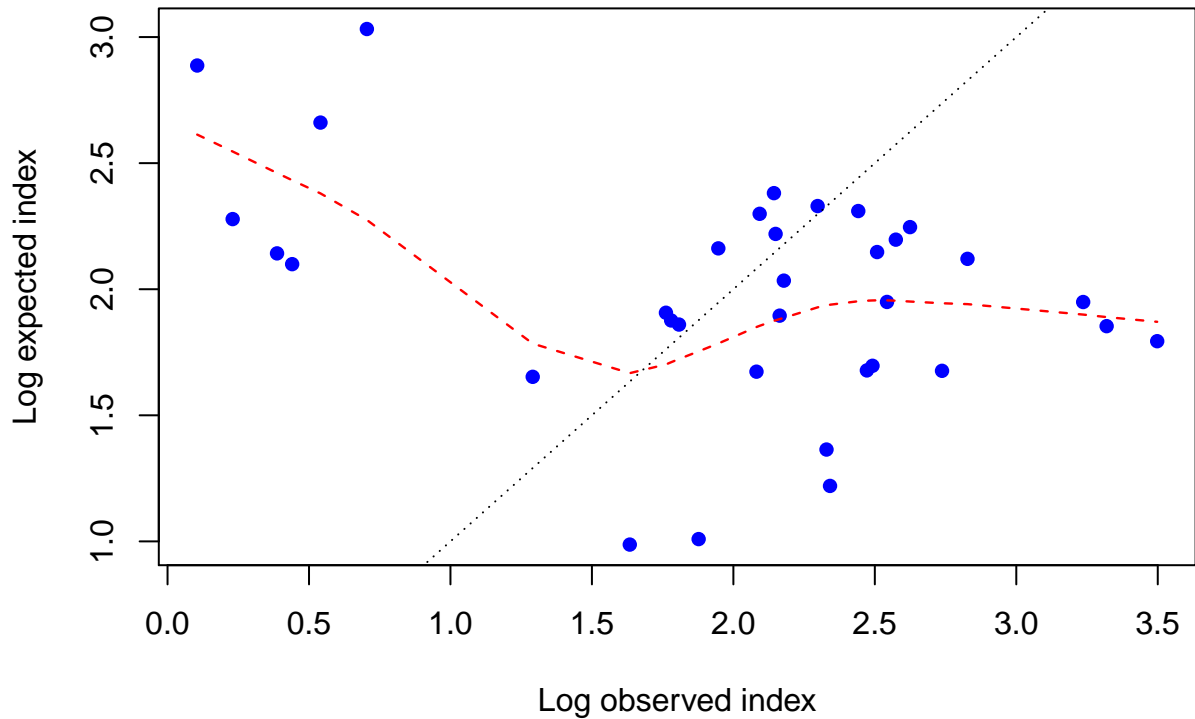
Log index

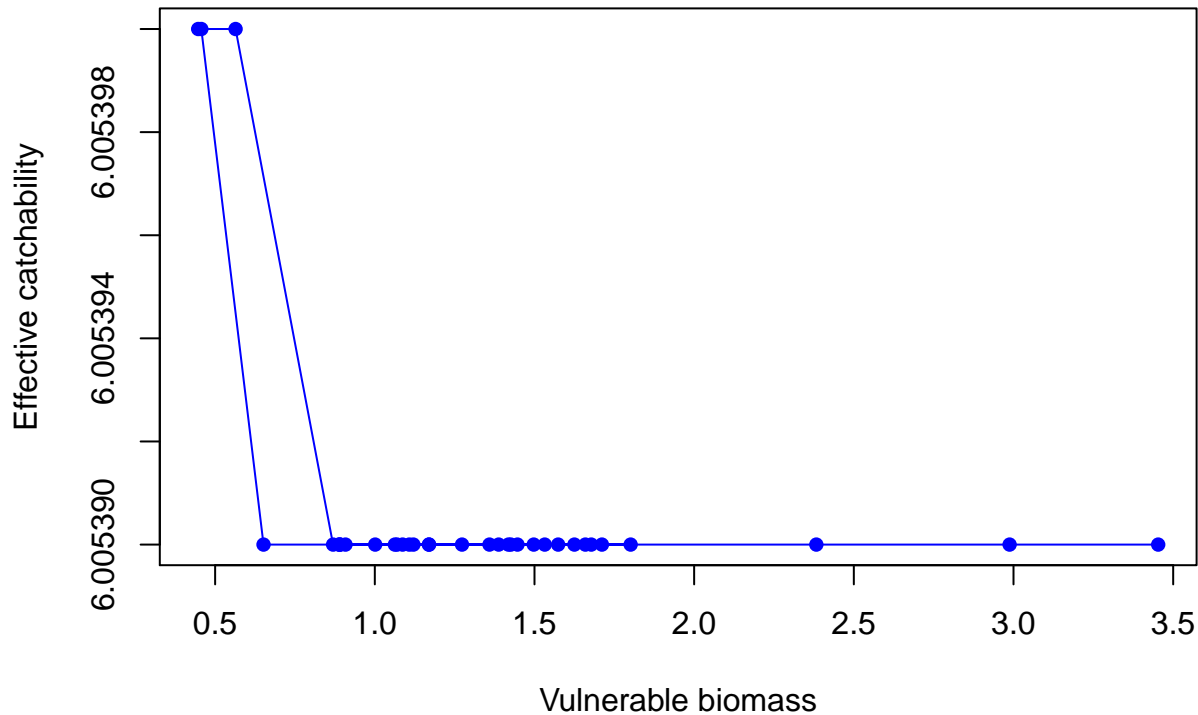


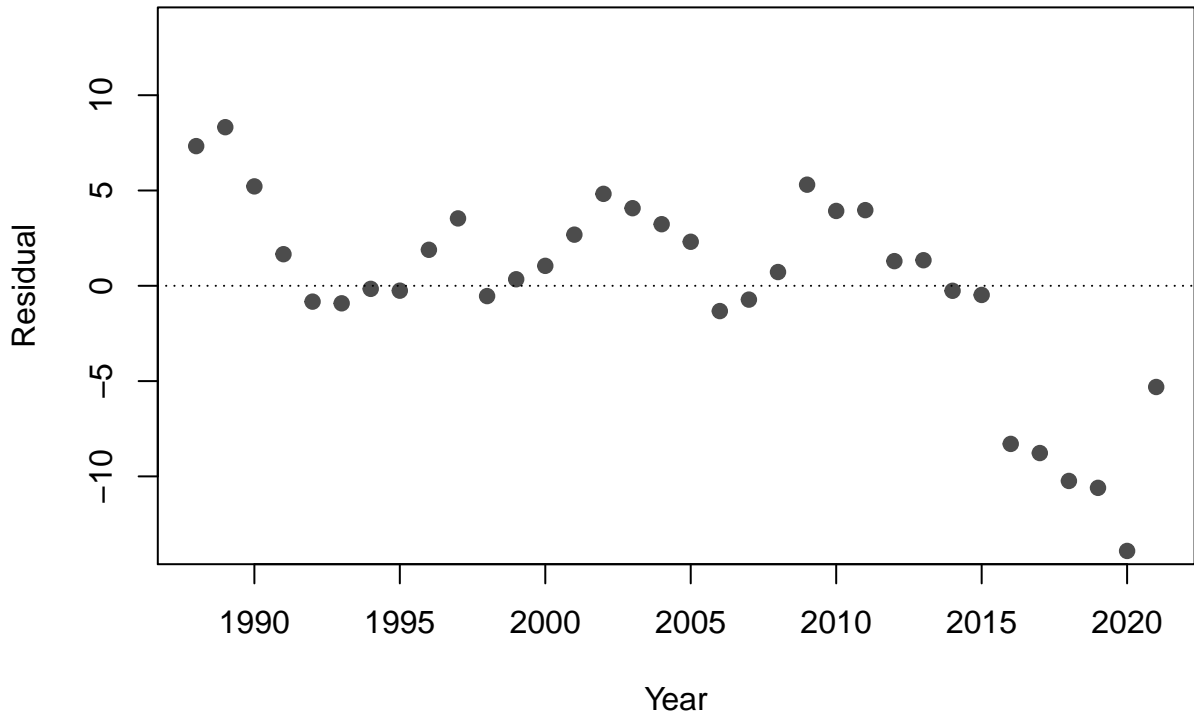


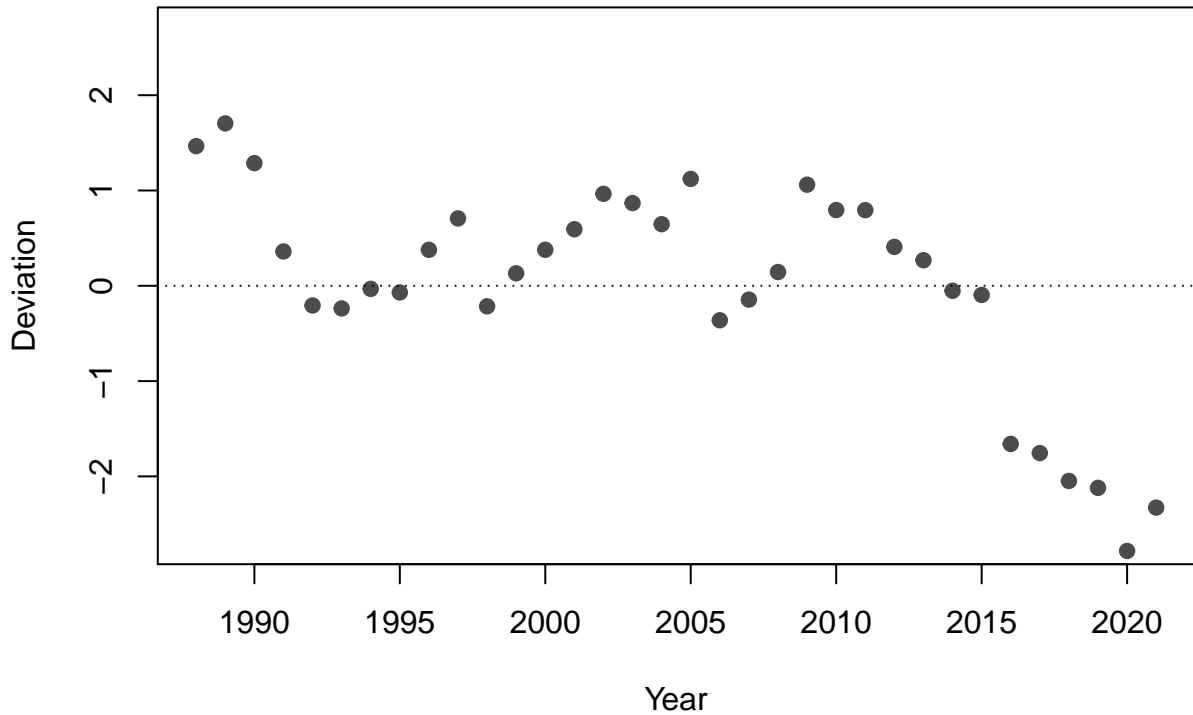
Log index



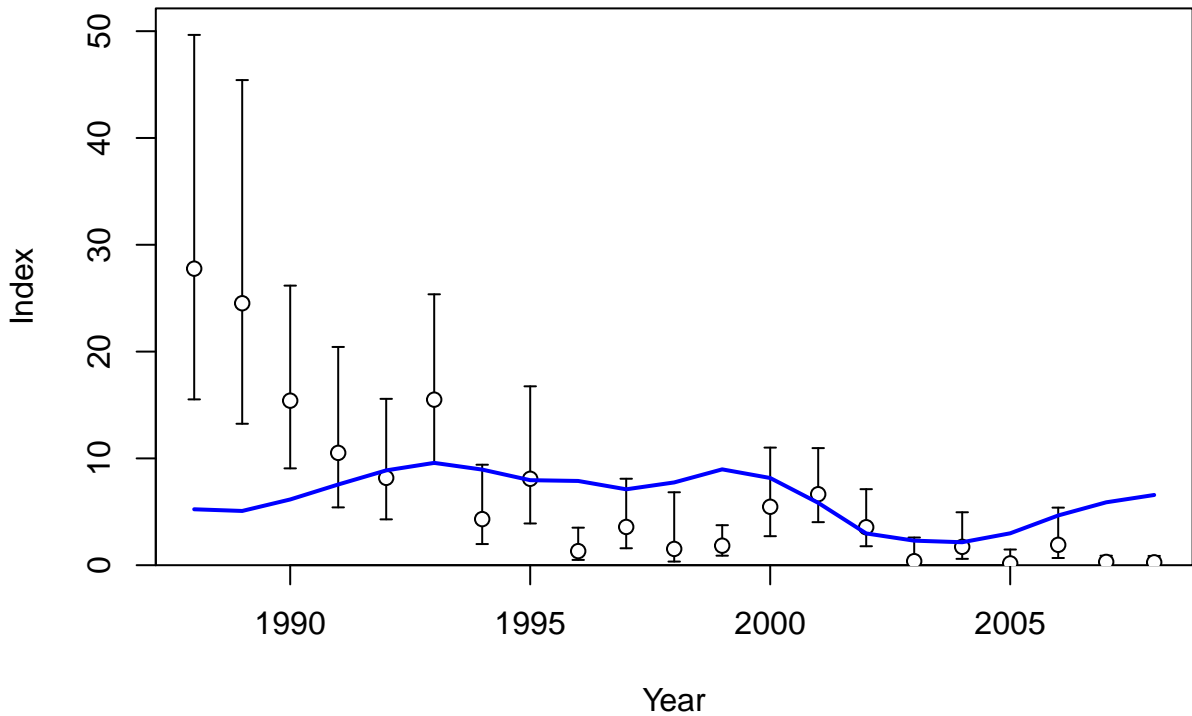




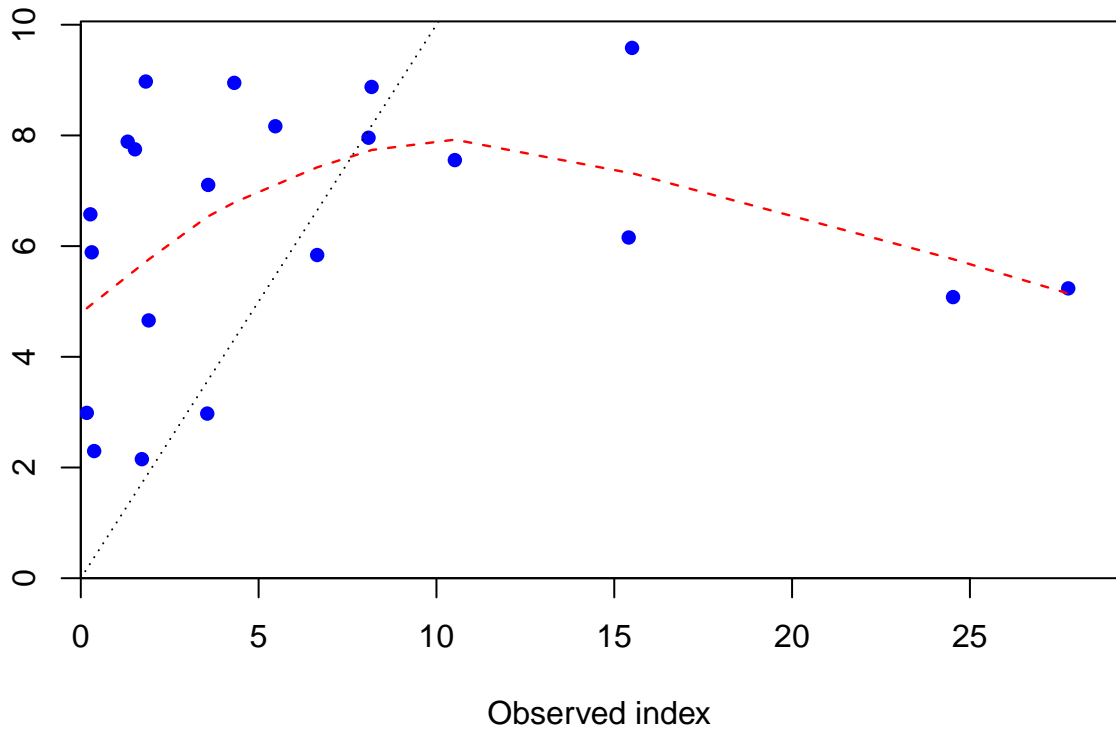




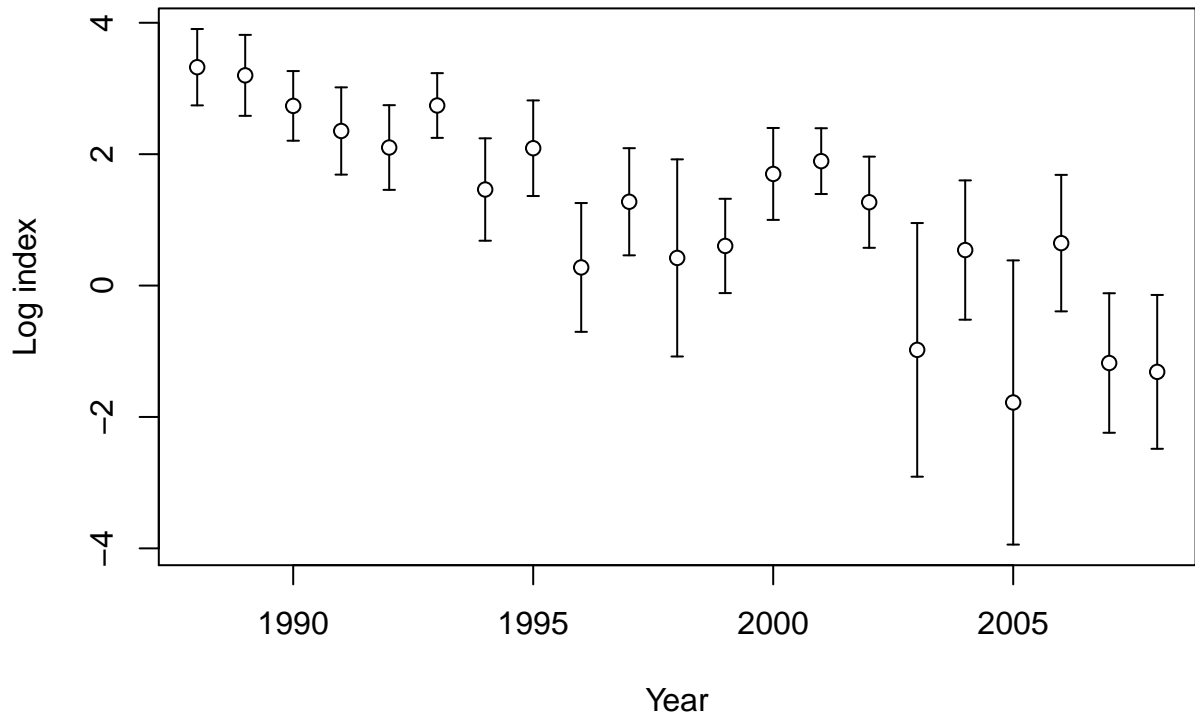


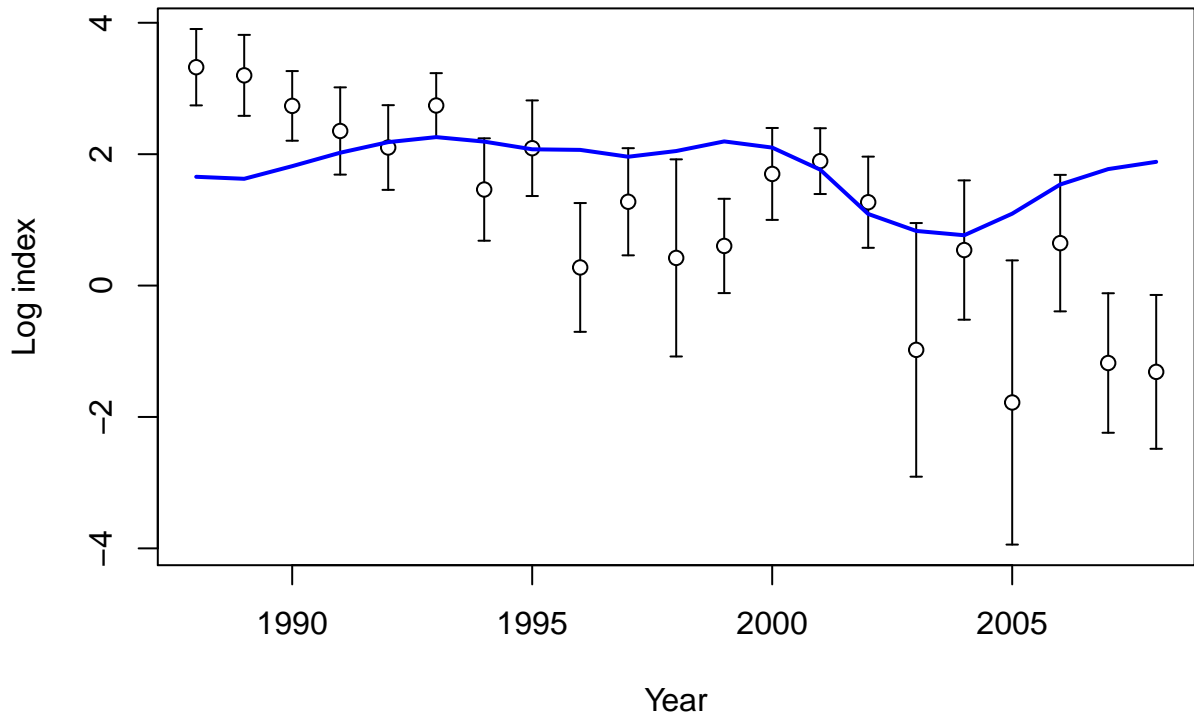


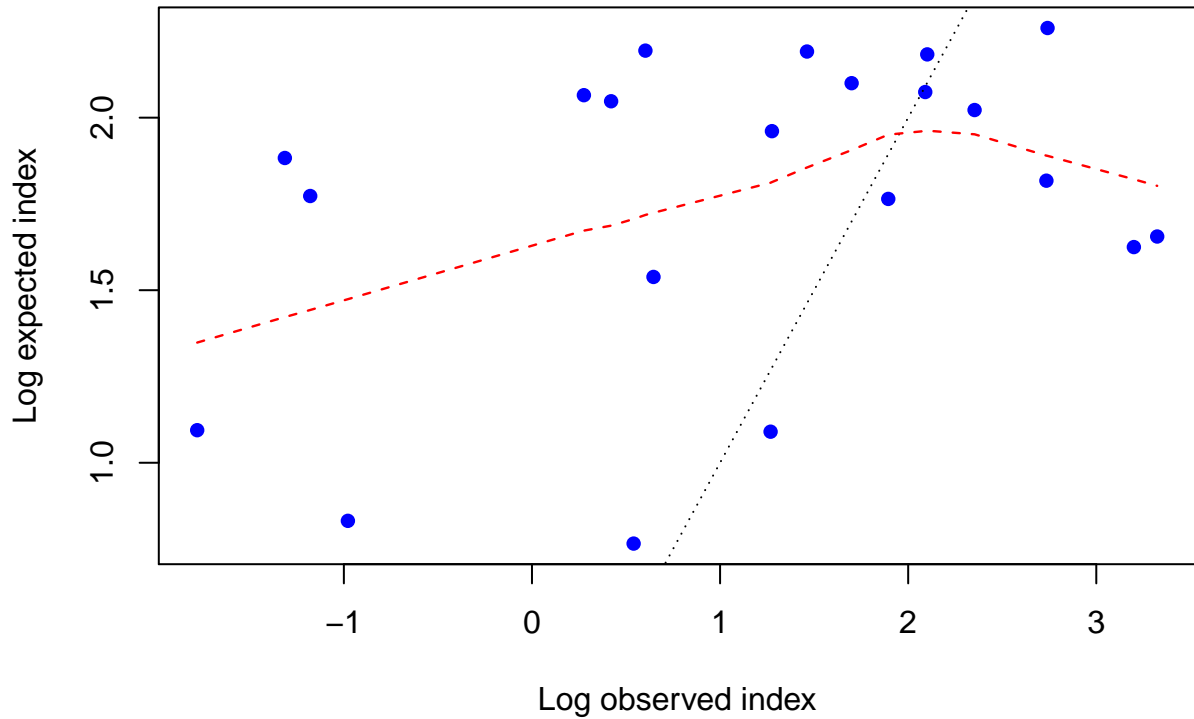
Expected index

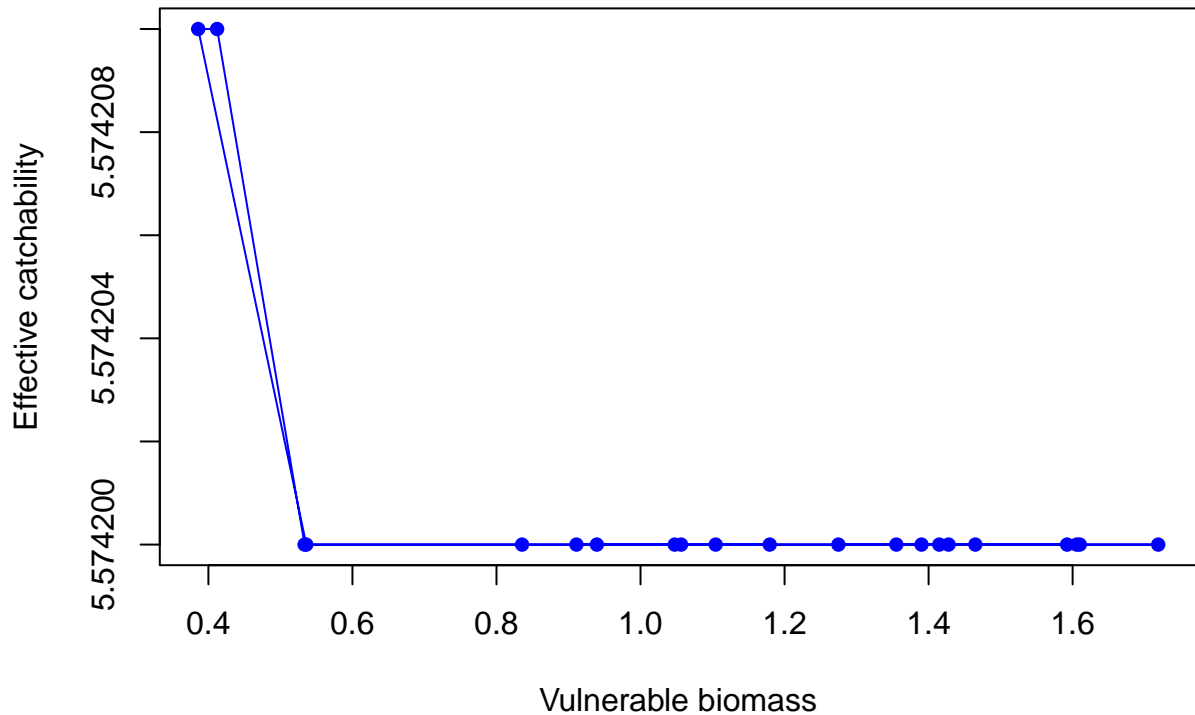


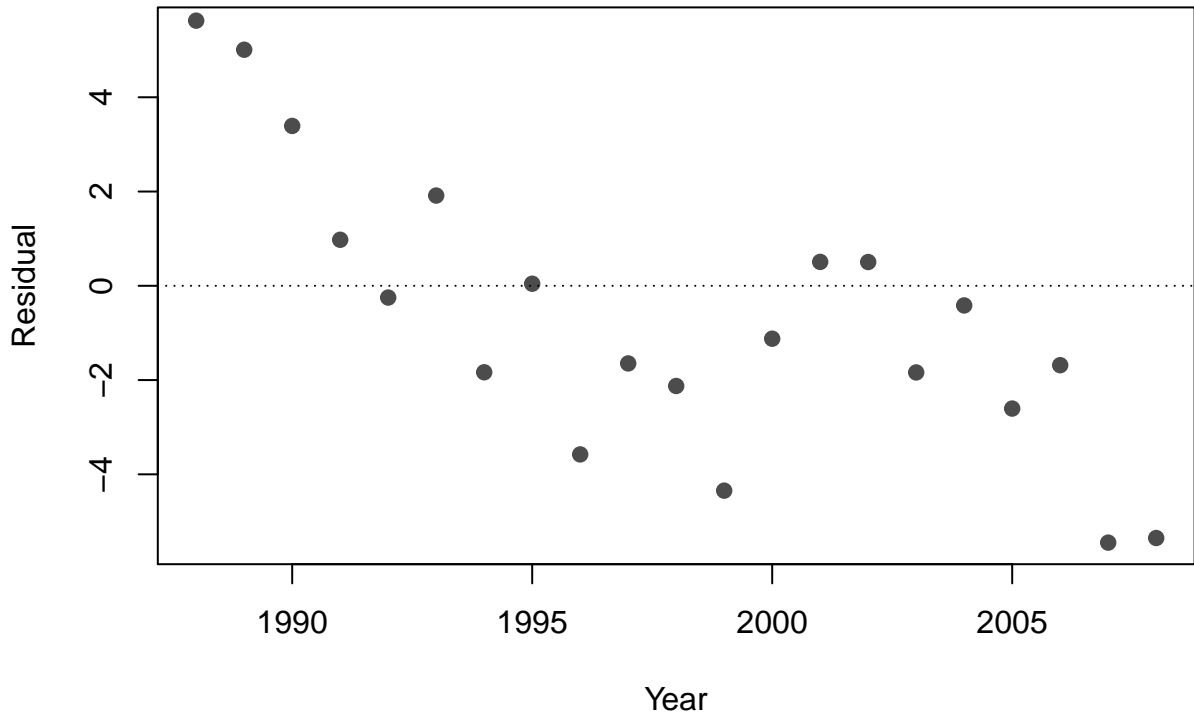


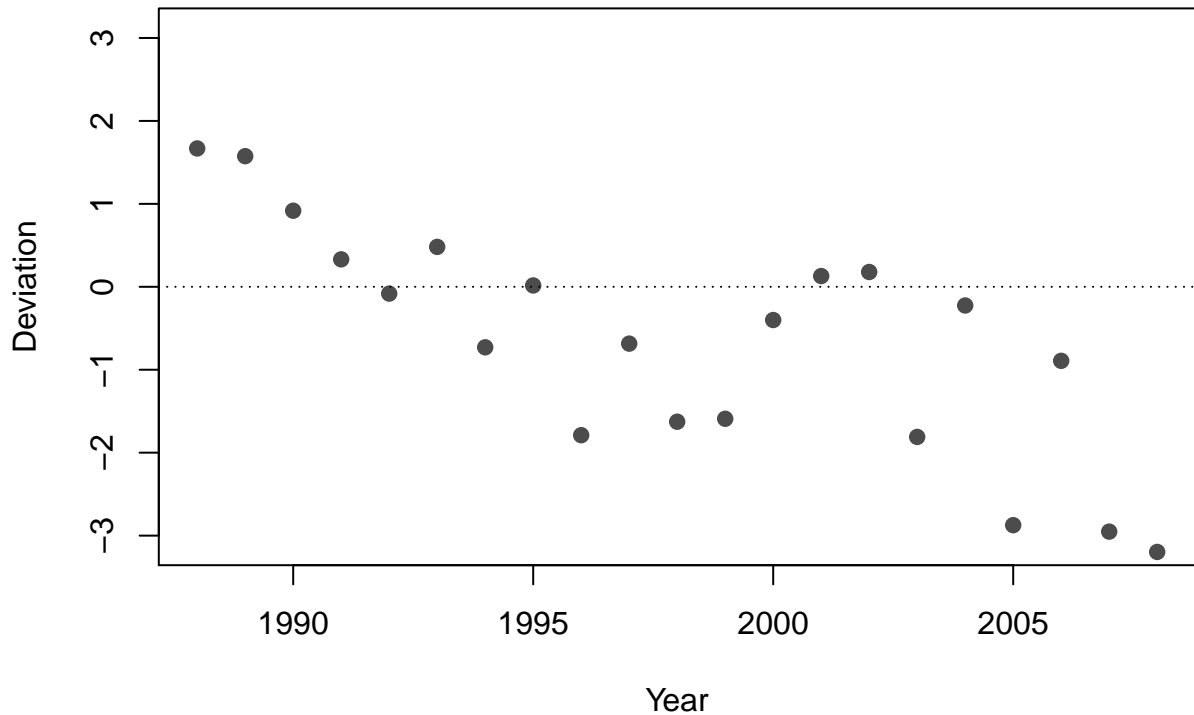






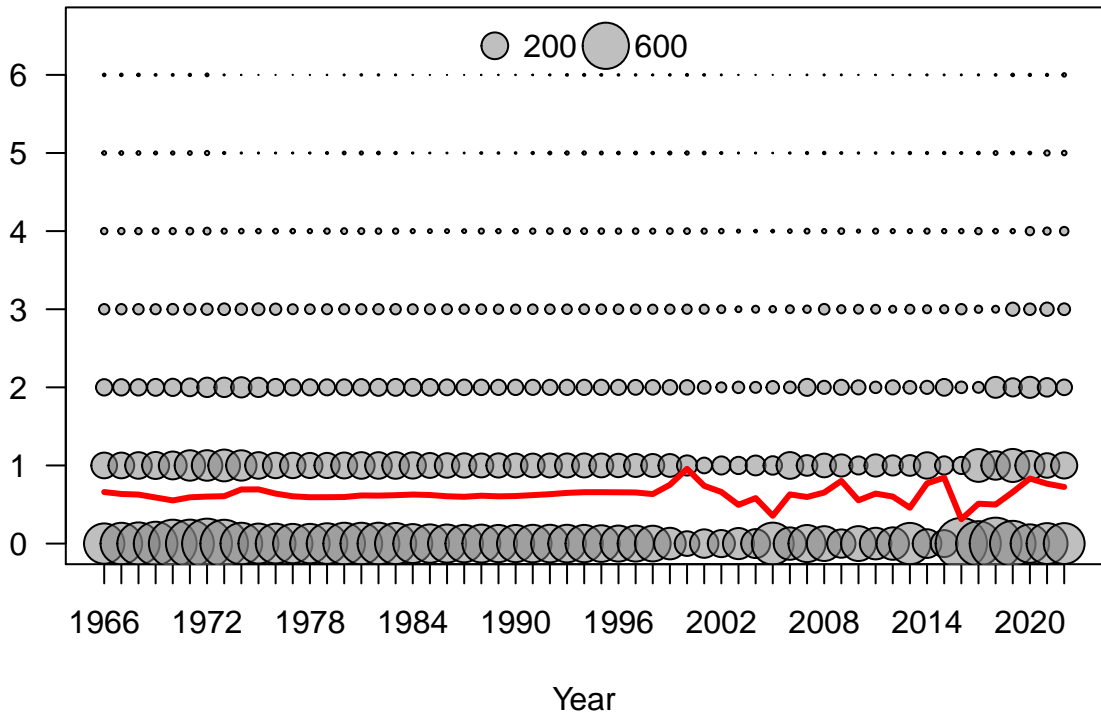




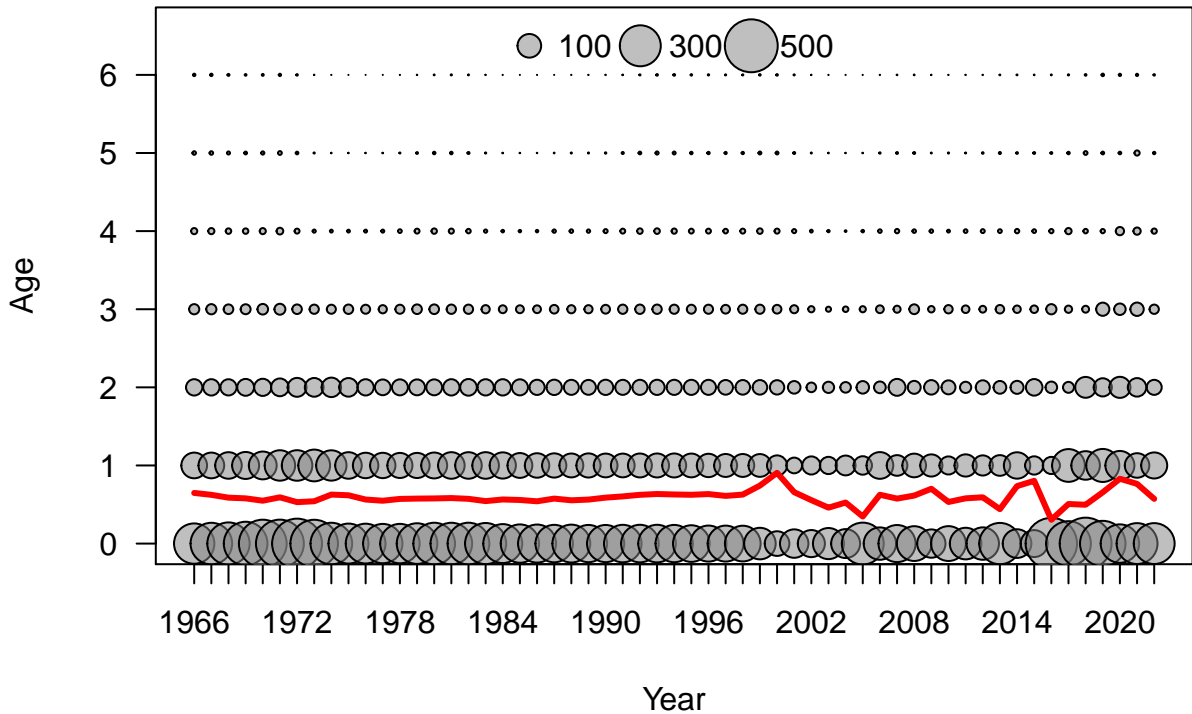


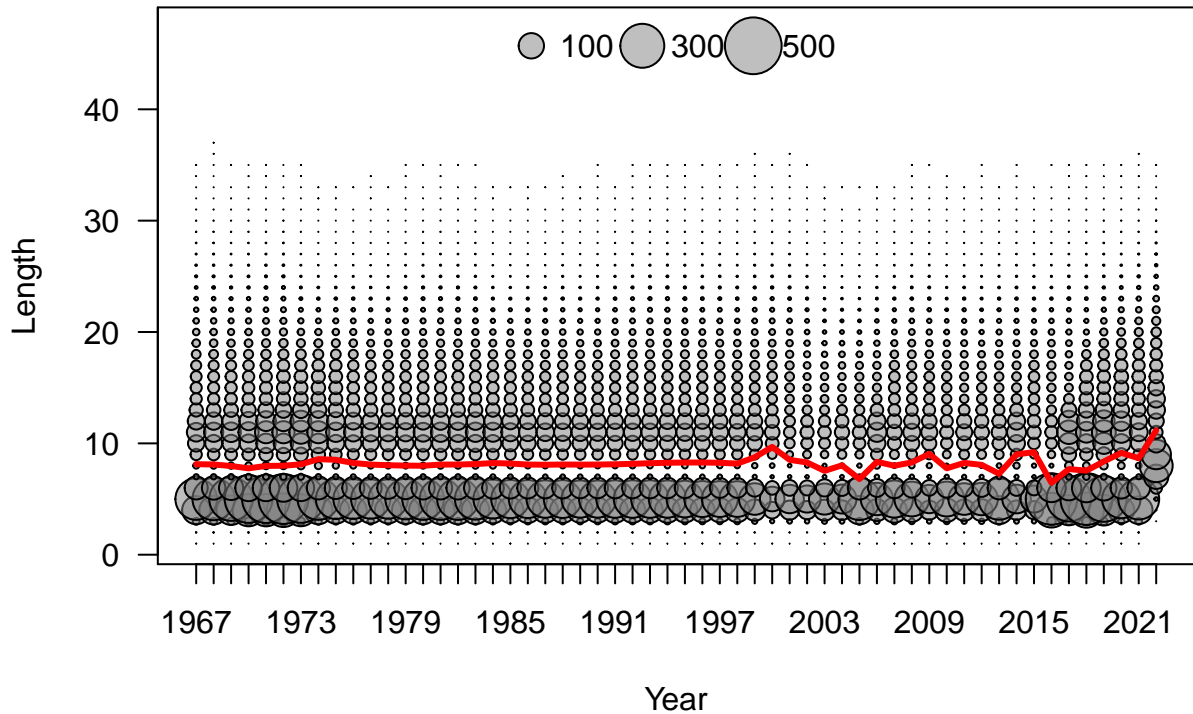


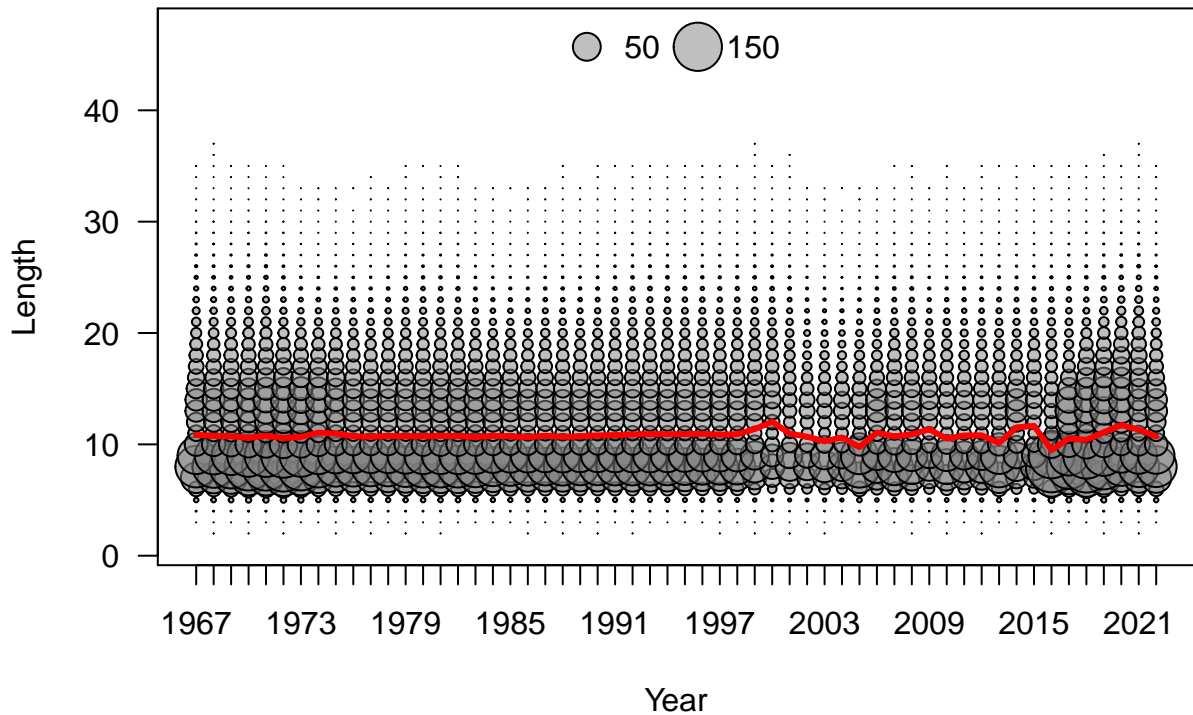
Age

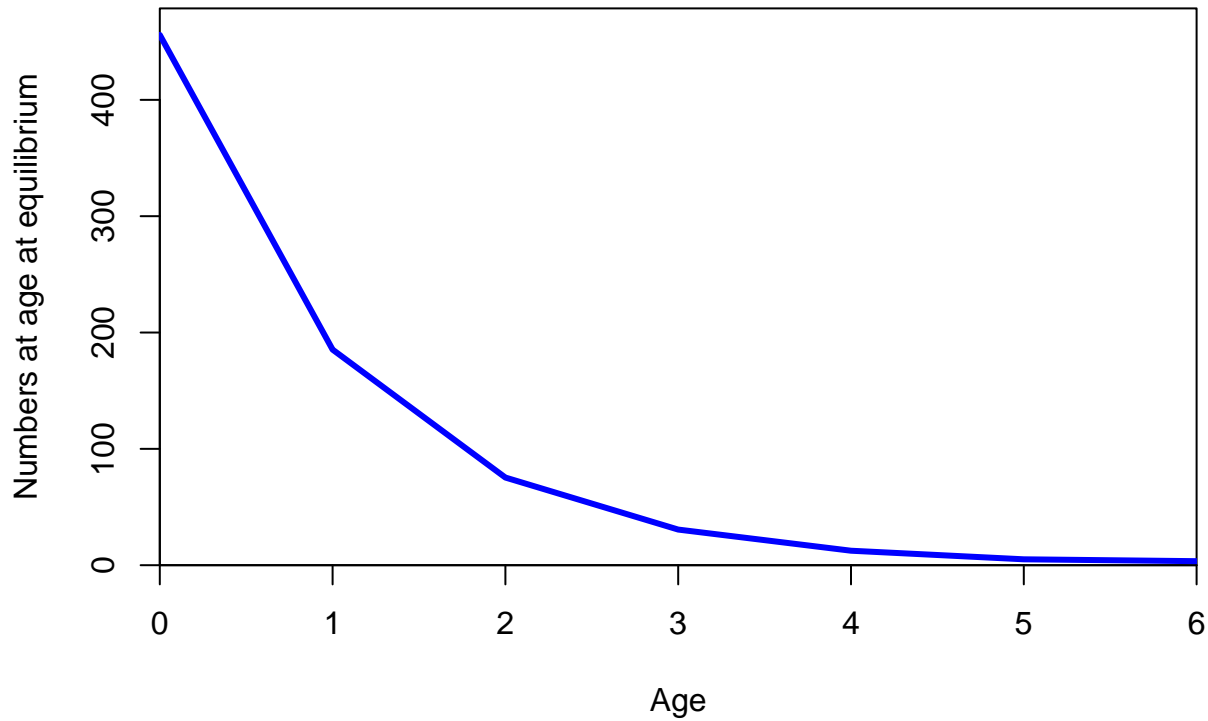






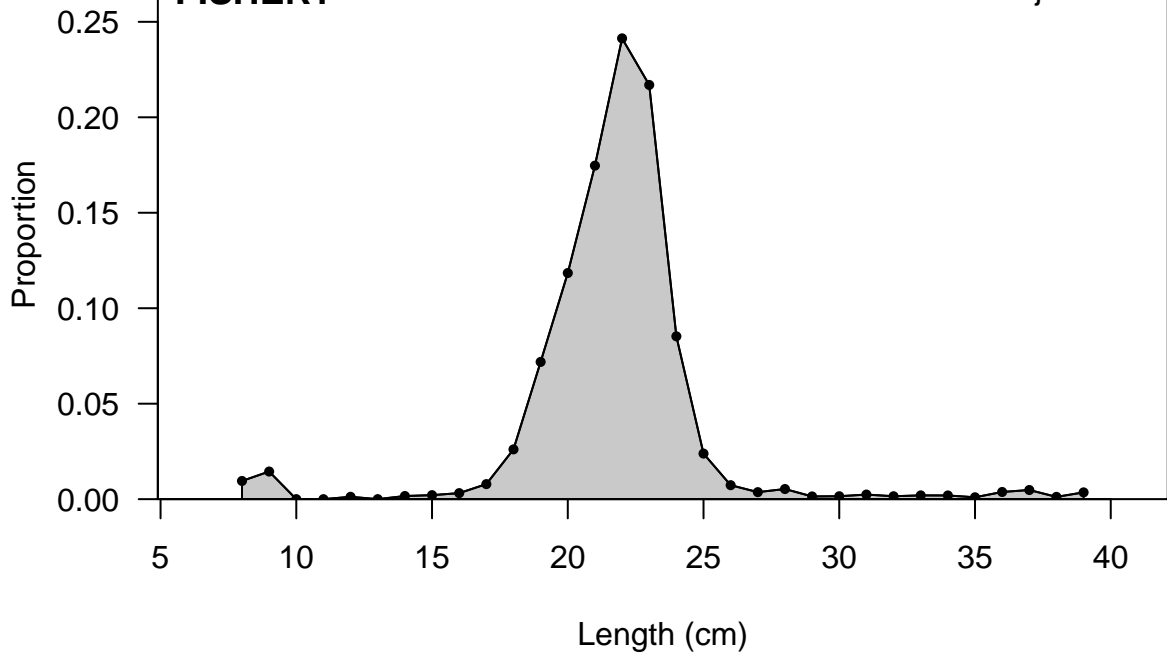


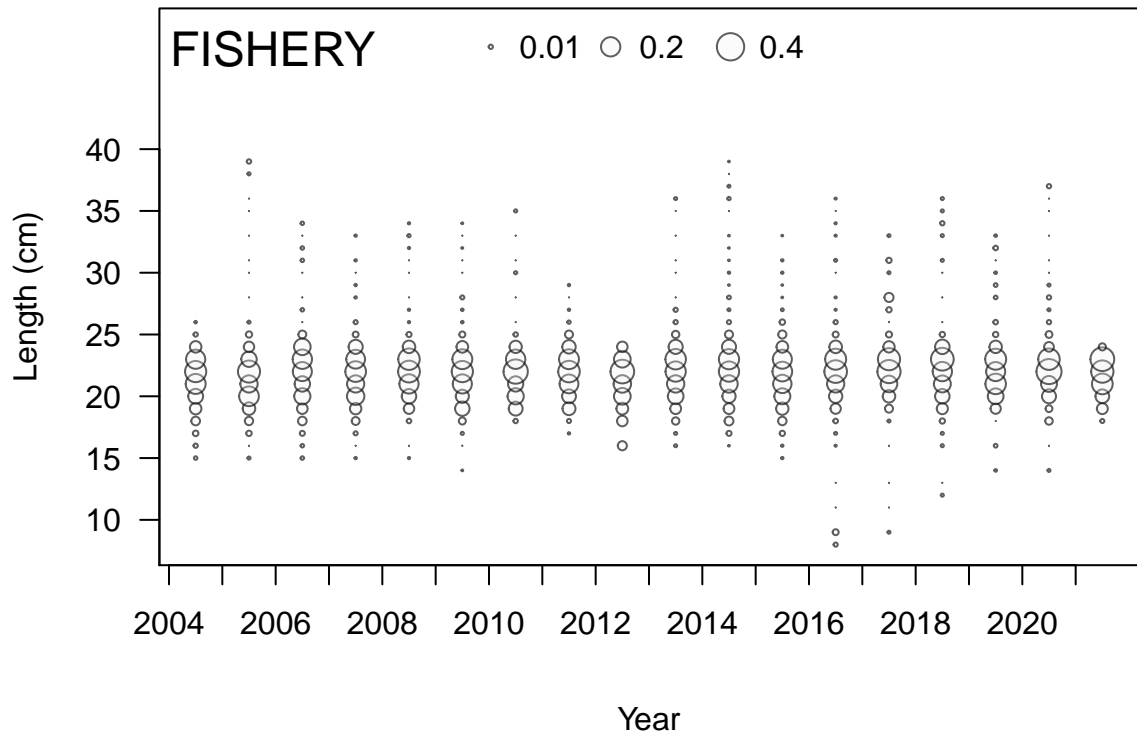


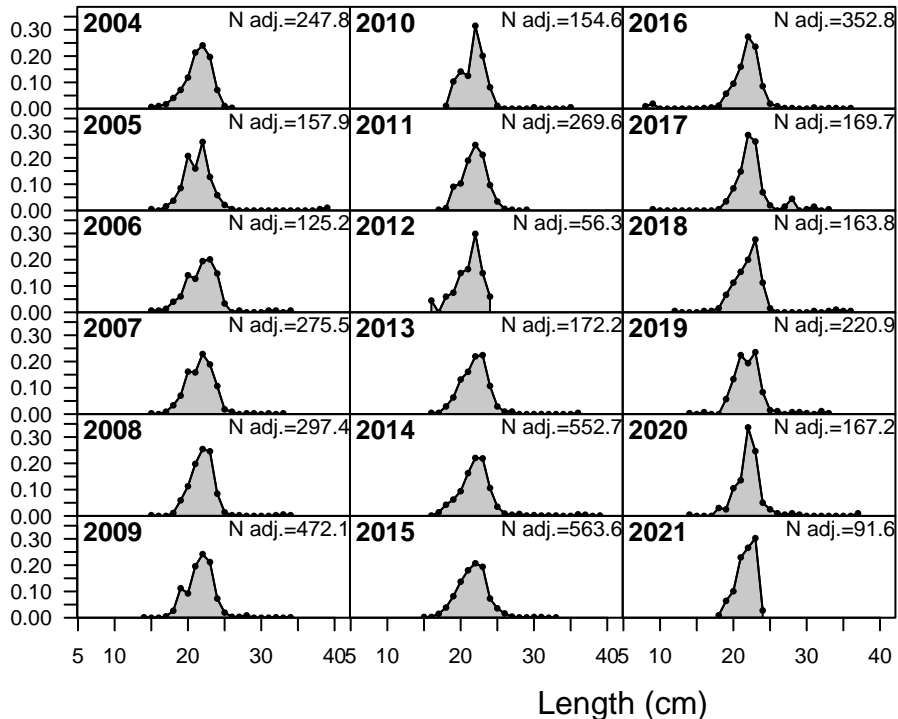


# FISHERY

Sum of N adj.=4510.8



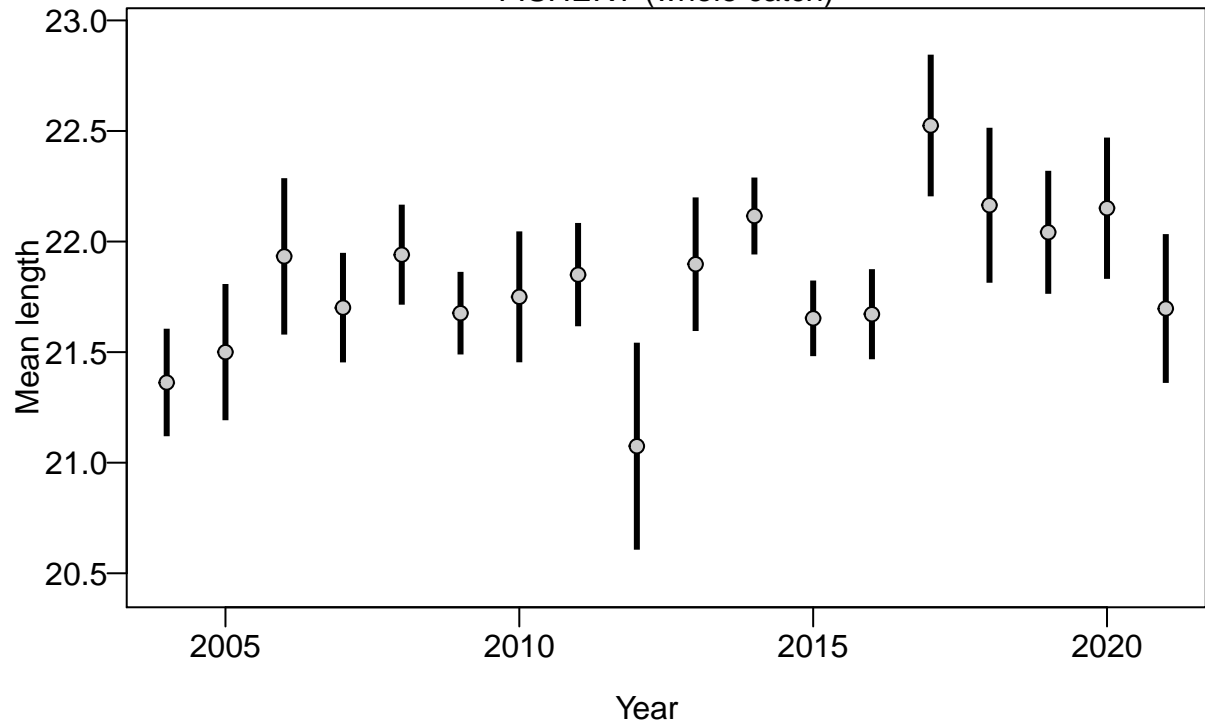






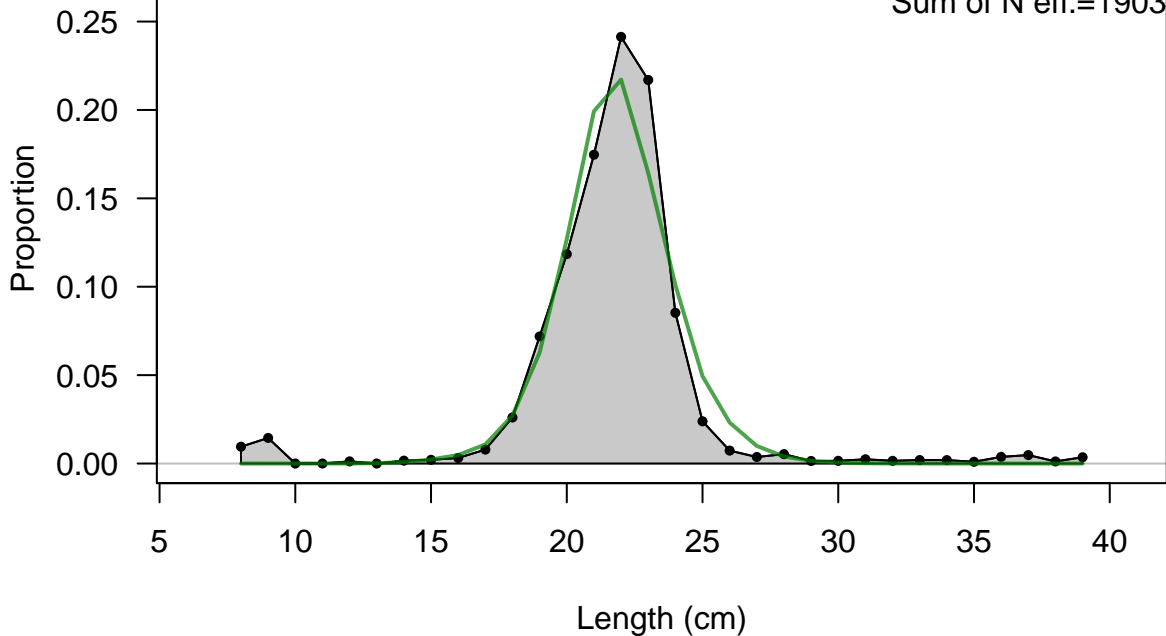


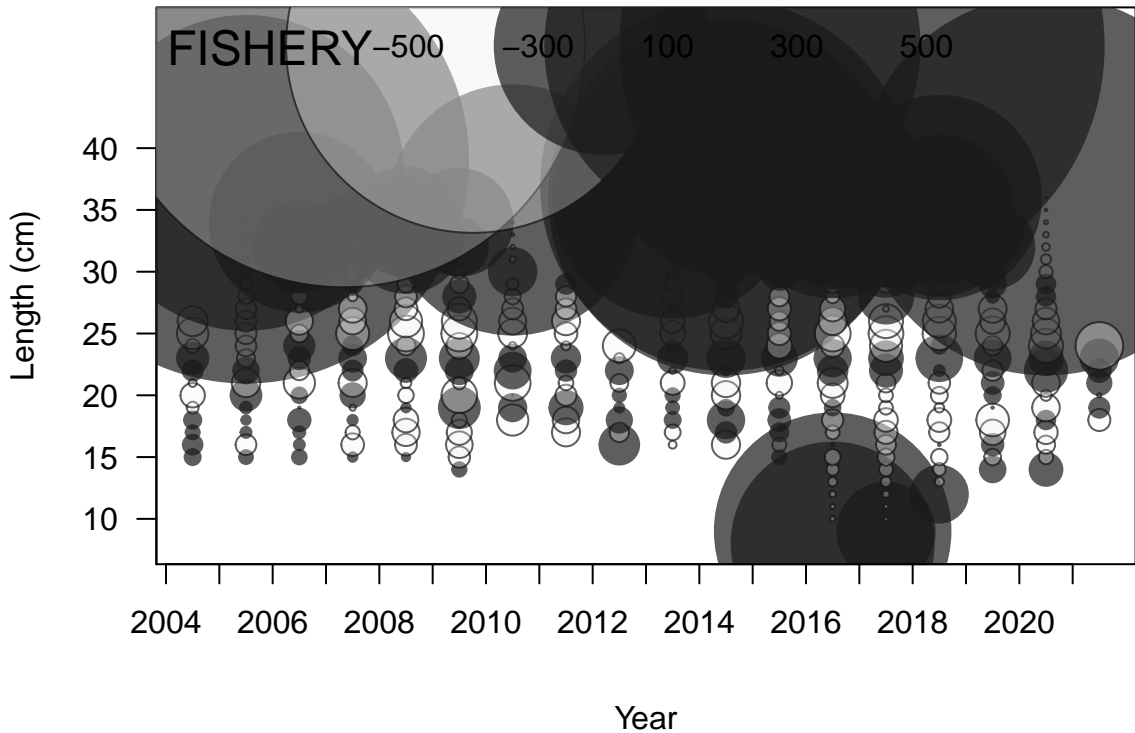
FISHERY (whole catch)

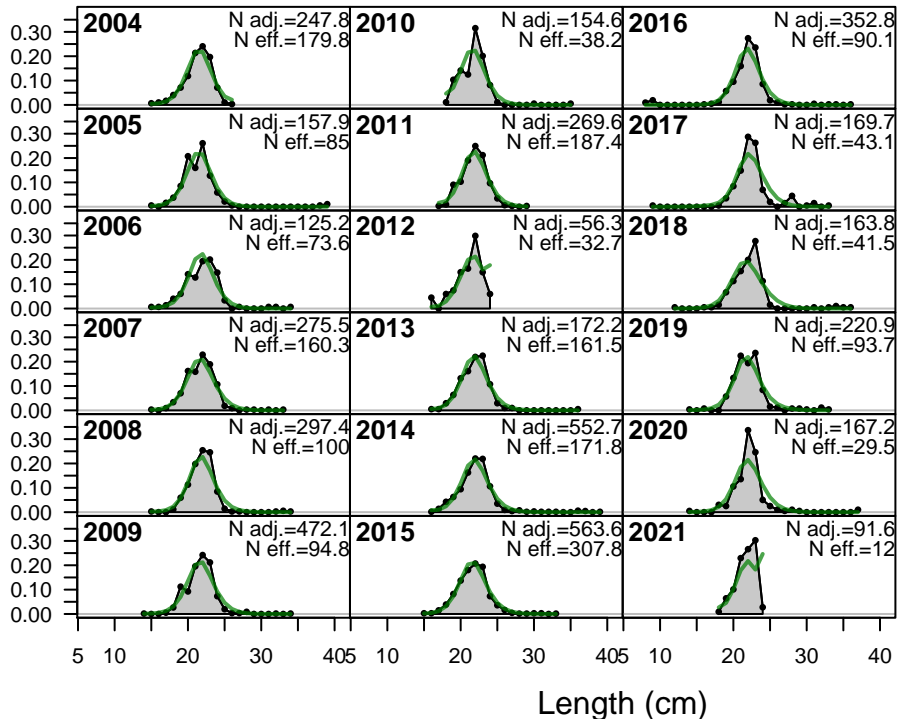


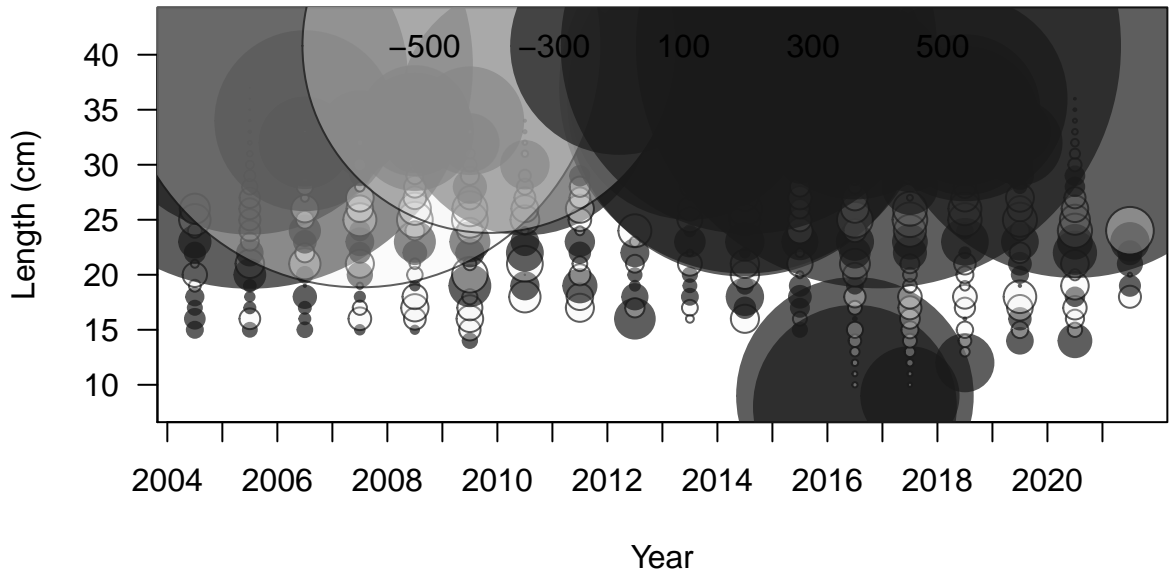
# FISHERY

Sum of N adj.=4510.8  
Sum of N eff.=1903

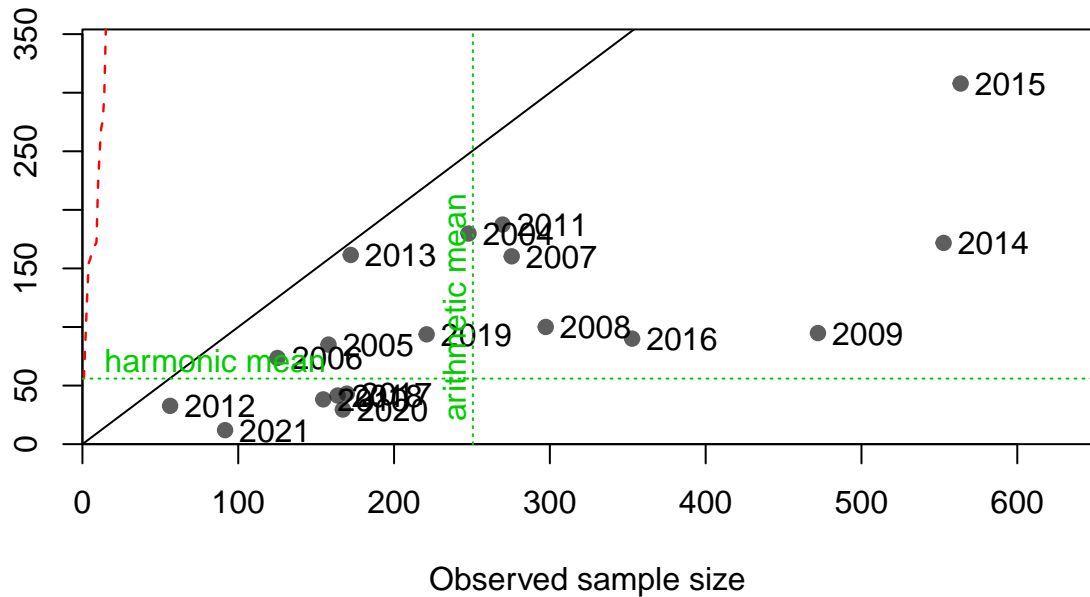




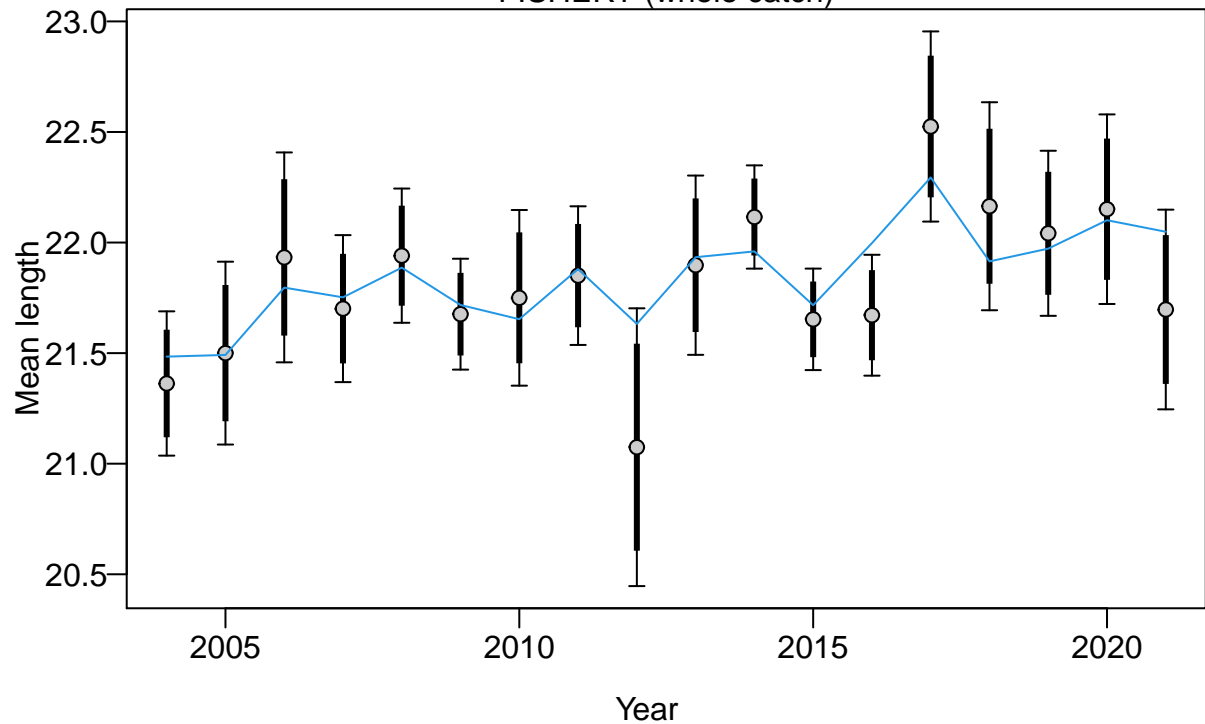


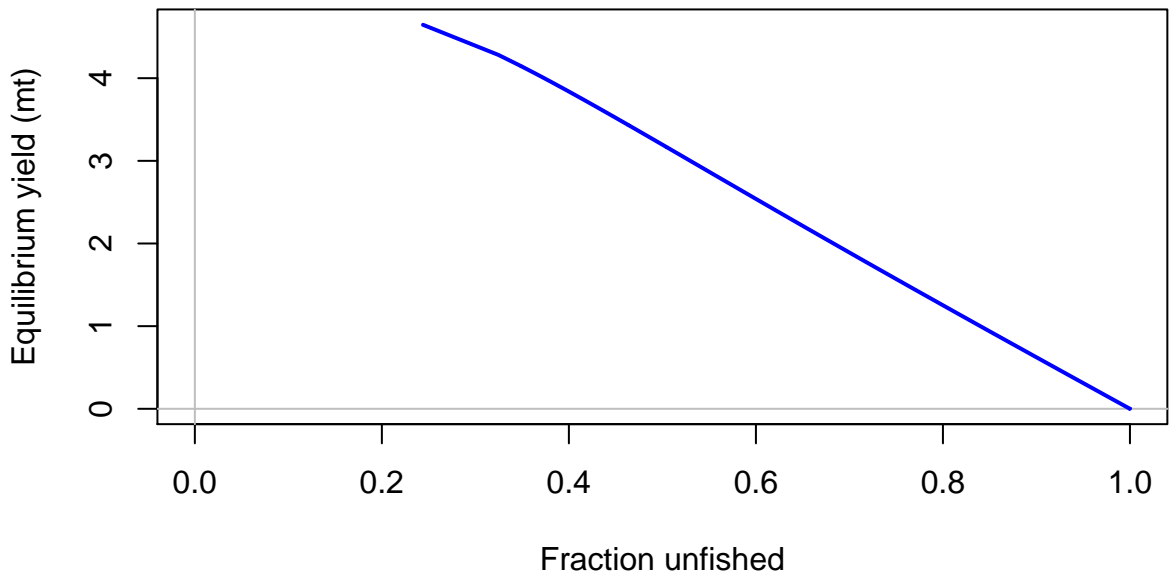


Effective sample size

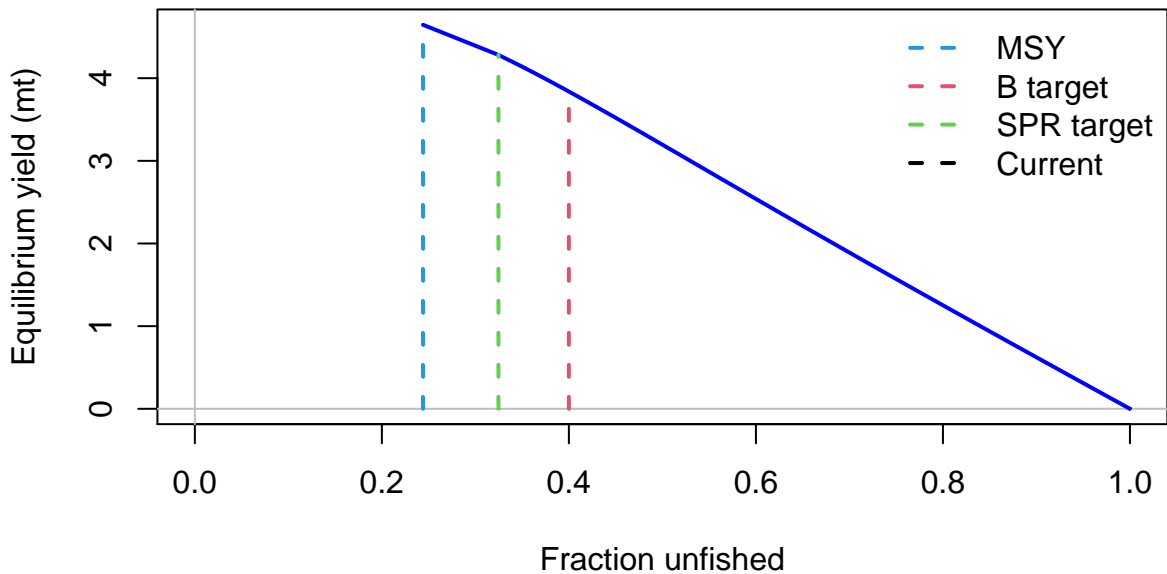


FISHERY (whole catch)

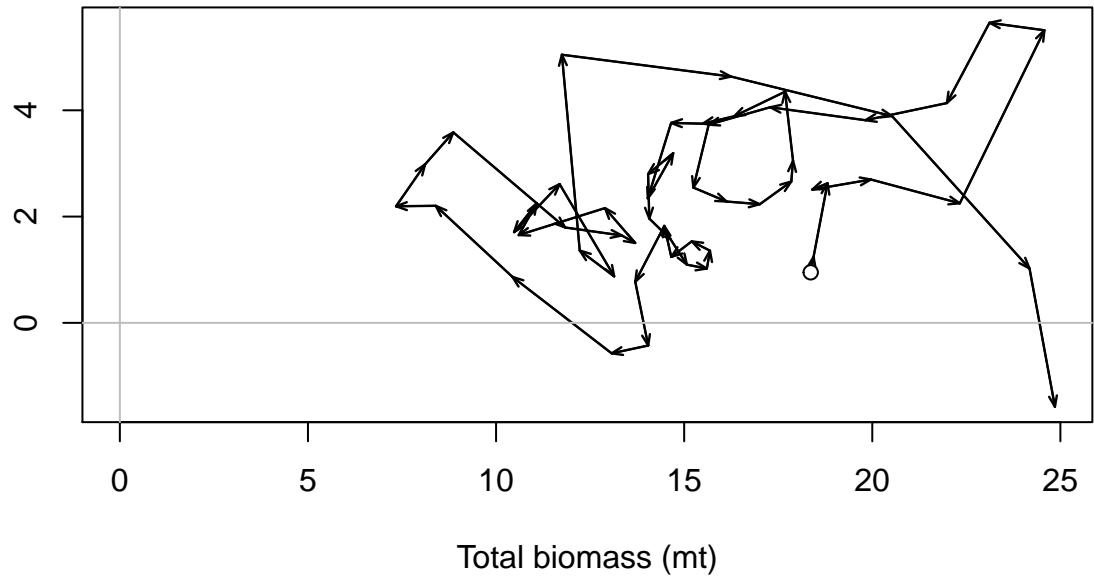


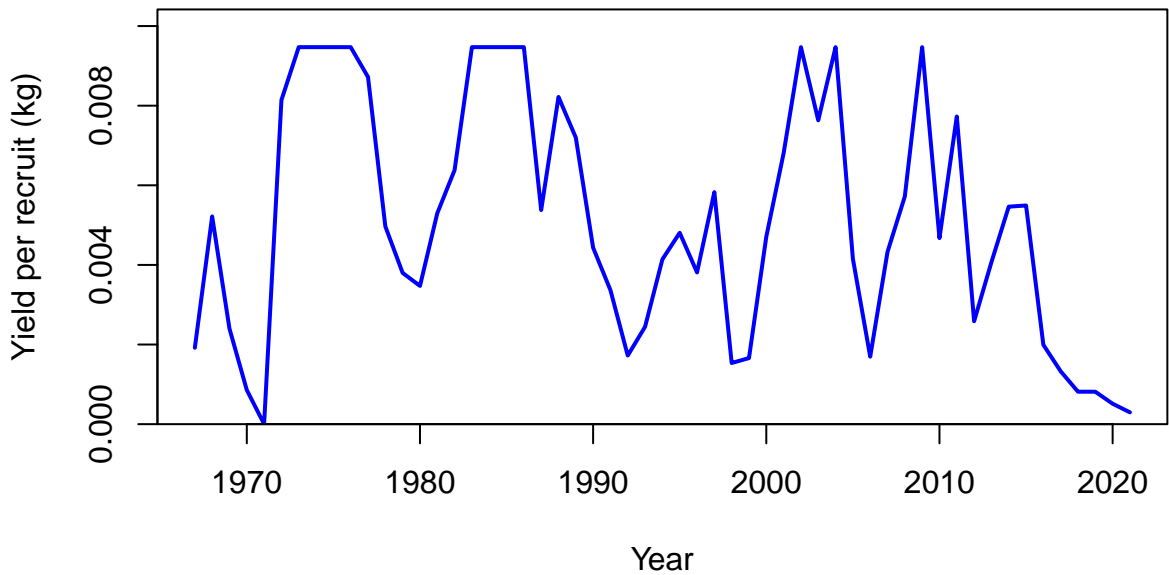




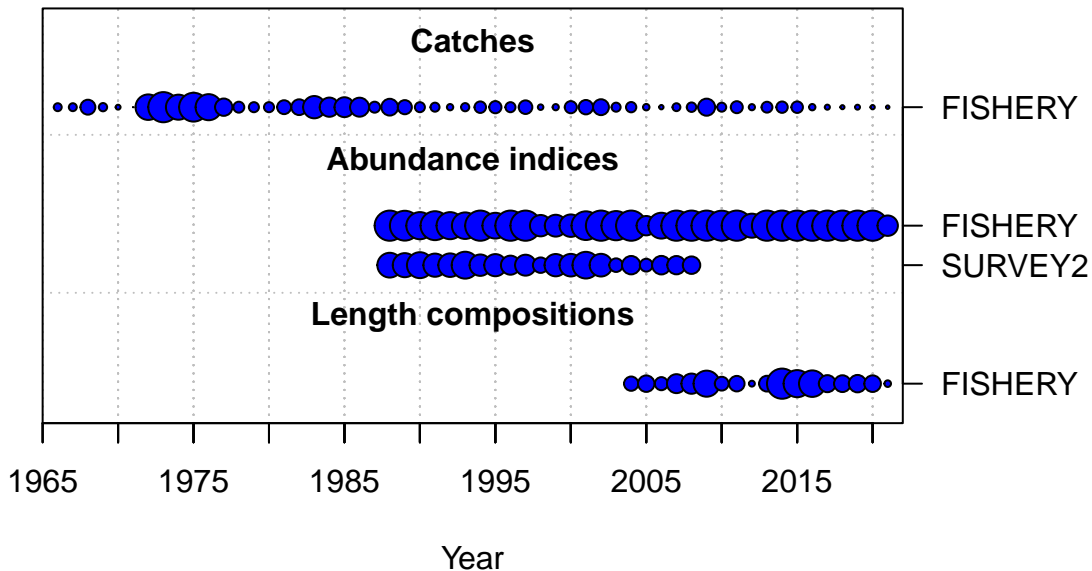


Surplus production (mt)





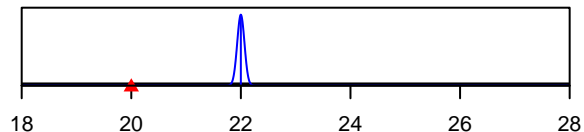




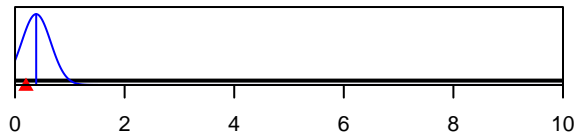
SR\_LN(R0)



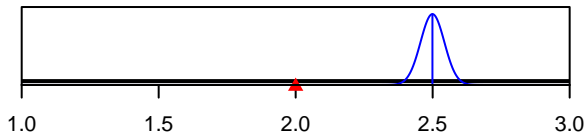
Size\_inflection\_FISHERY(1)



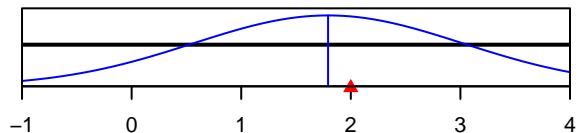
InitF\_seas\_1\_flt\_1FISHERY



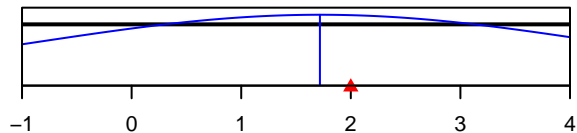
Size\_95%width\_FISHERY(1)



LnQ\_base\_FISHERY(1)



LnQ\_base\_SURVEY2(2)



Parameter value