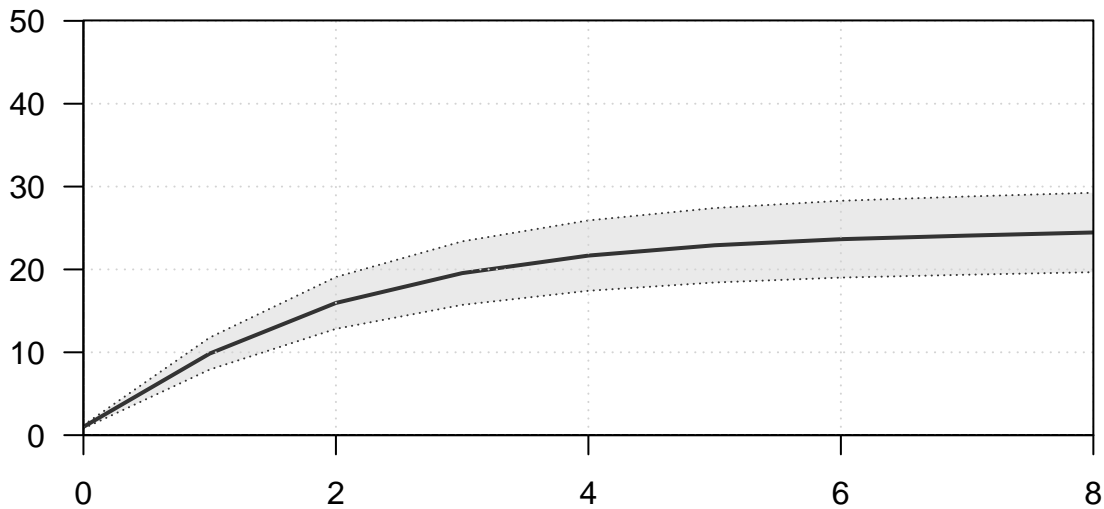
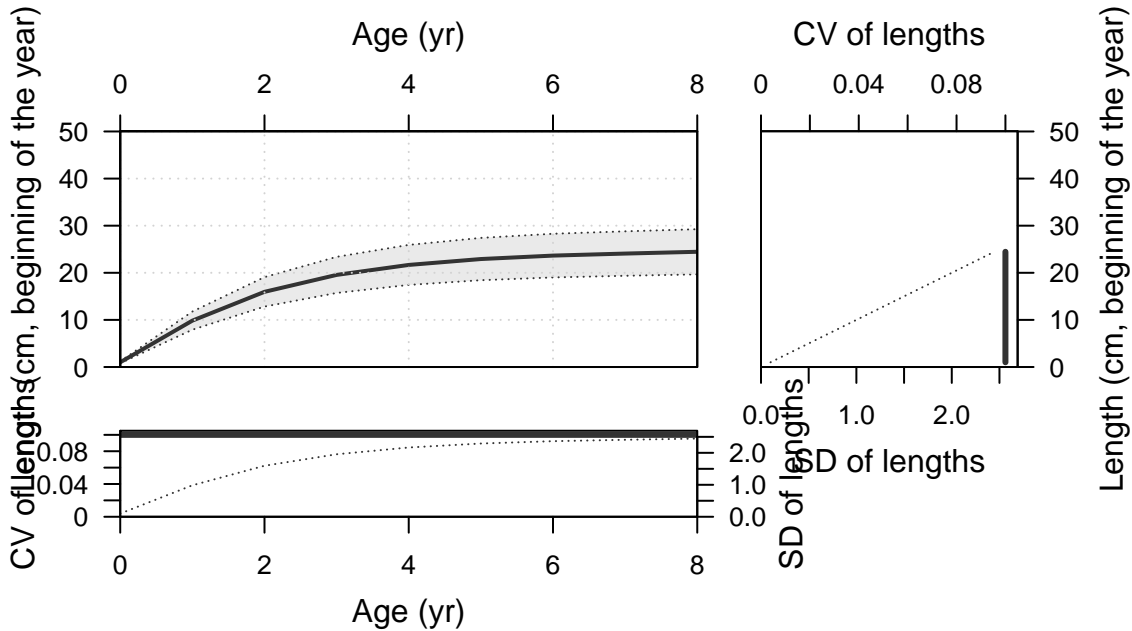


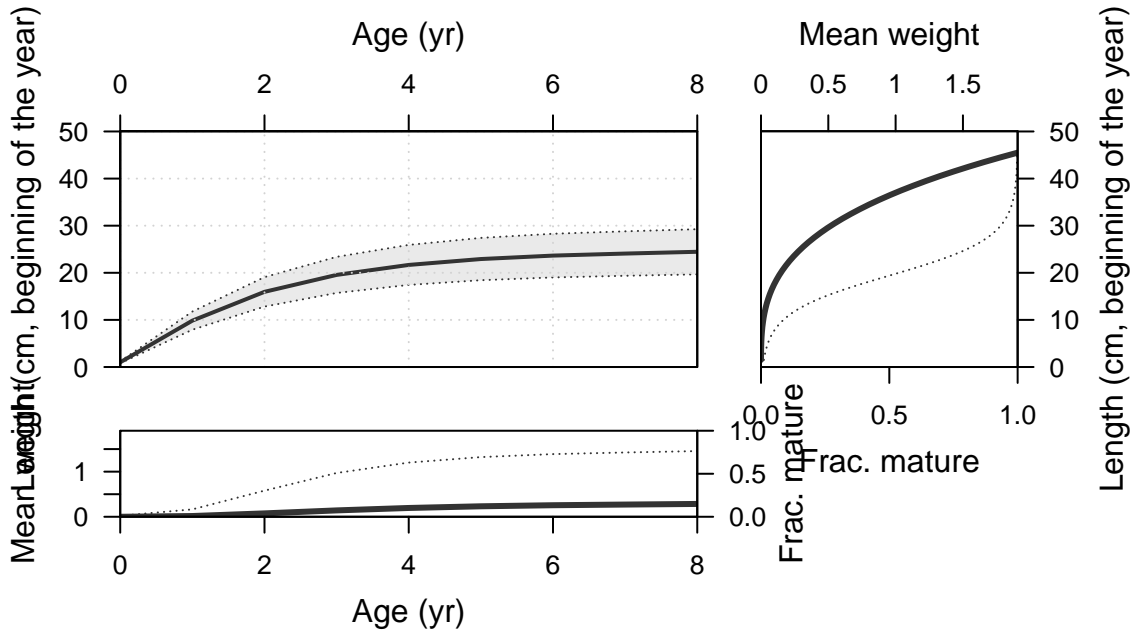
Plots created using the 'r4ss' package in R  
Stock Synthesis version: 3.30.19.0  
StartTime: Thu Jul 07 14:02:53 2022  
Data\_File: data.ss  
Control\_File: control.ss

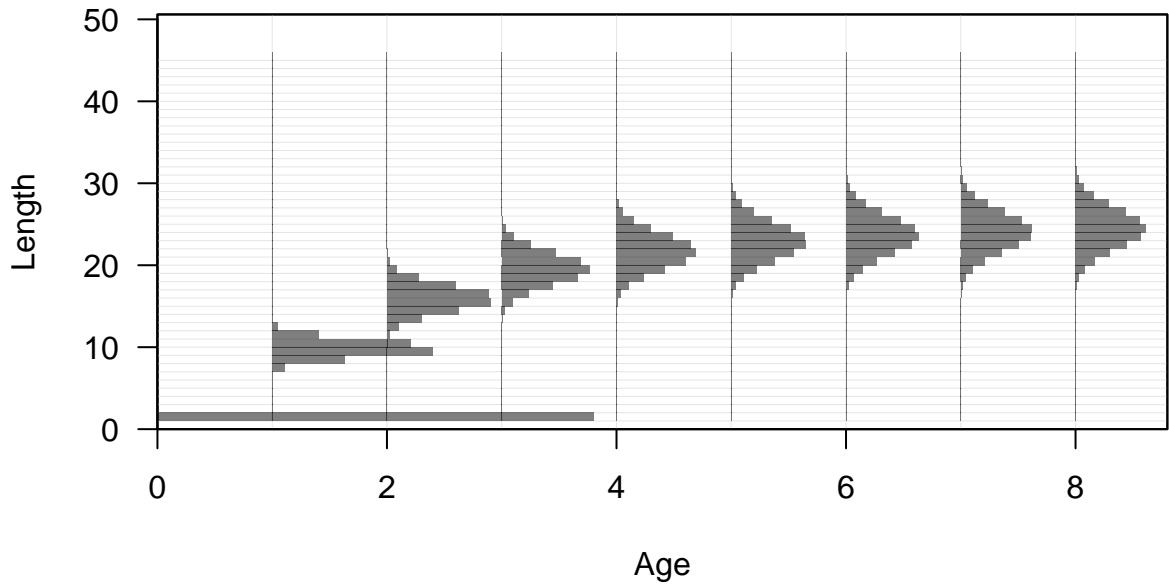
Length (cm, beginning of the year)

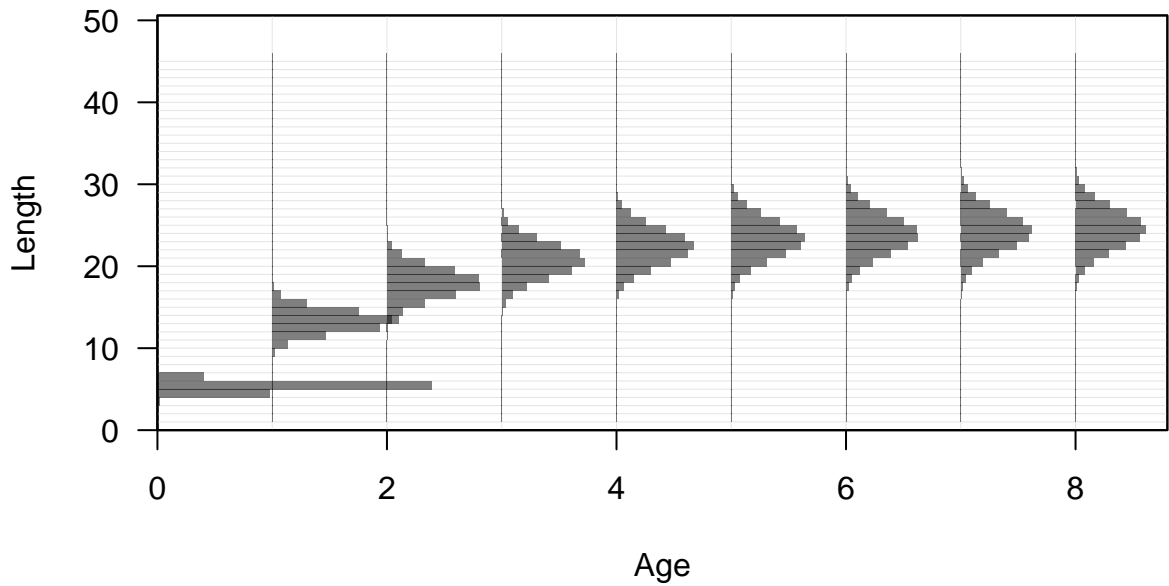


Age (yr)

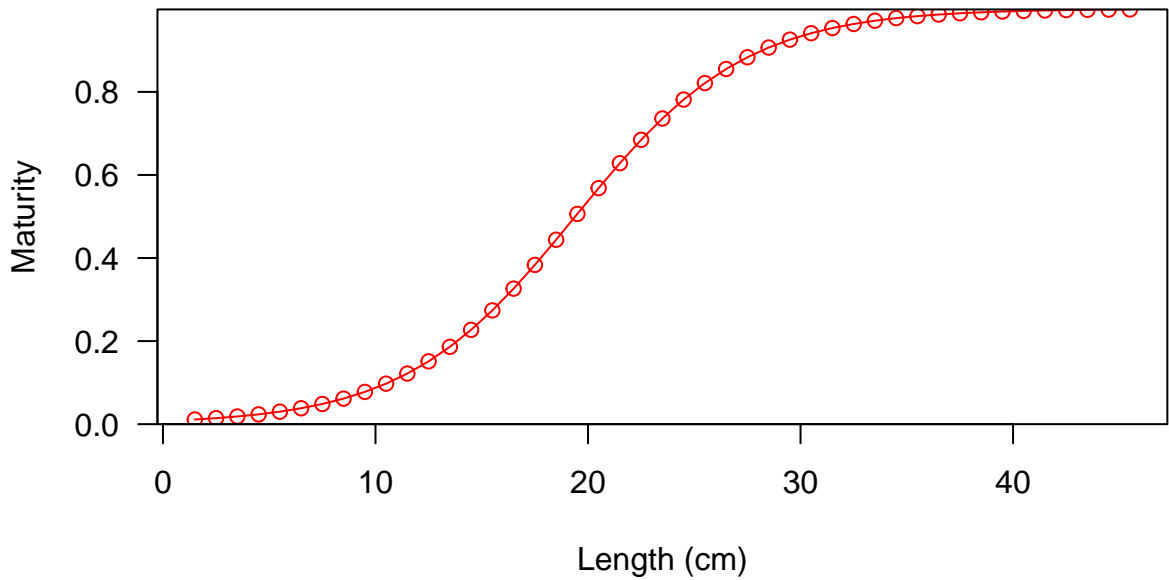






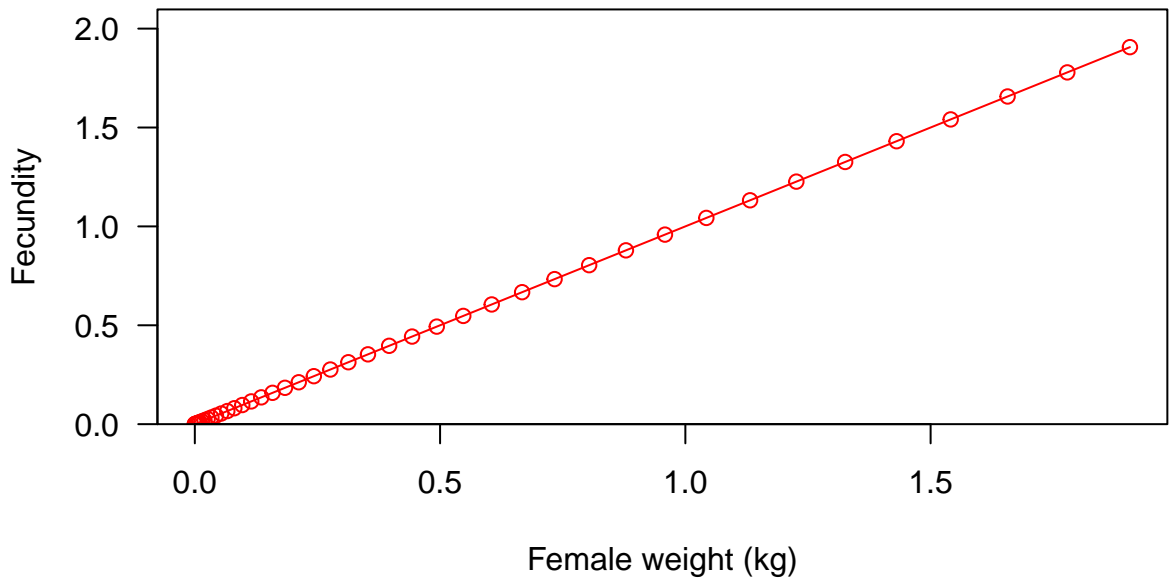




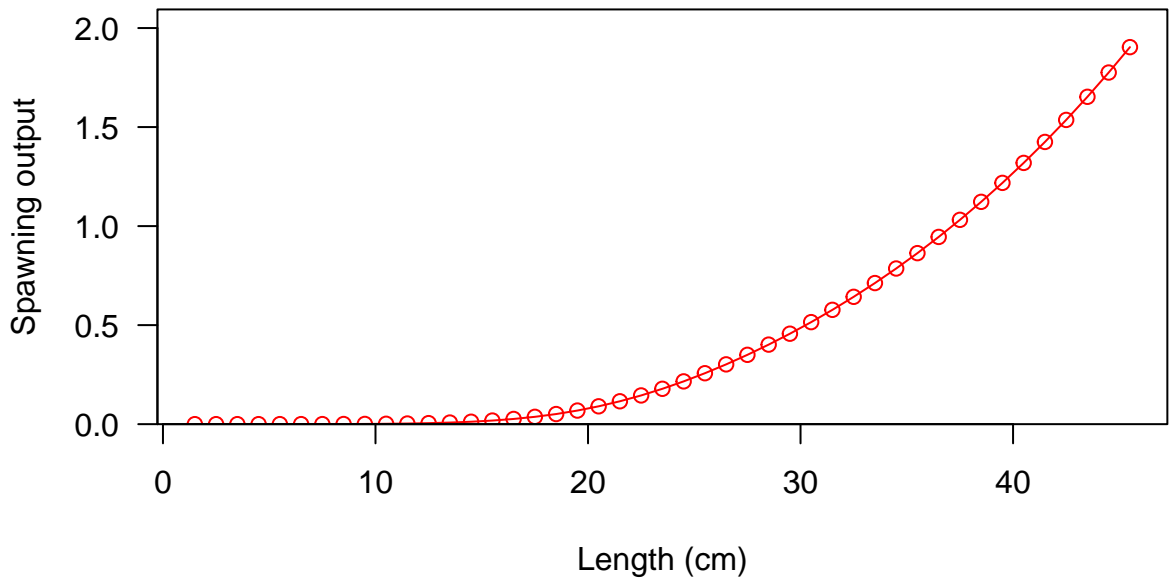


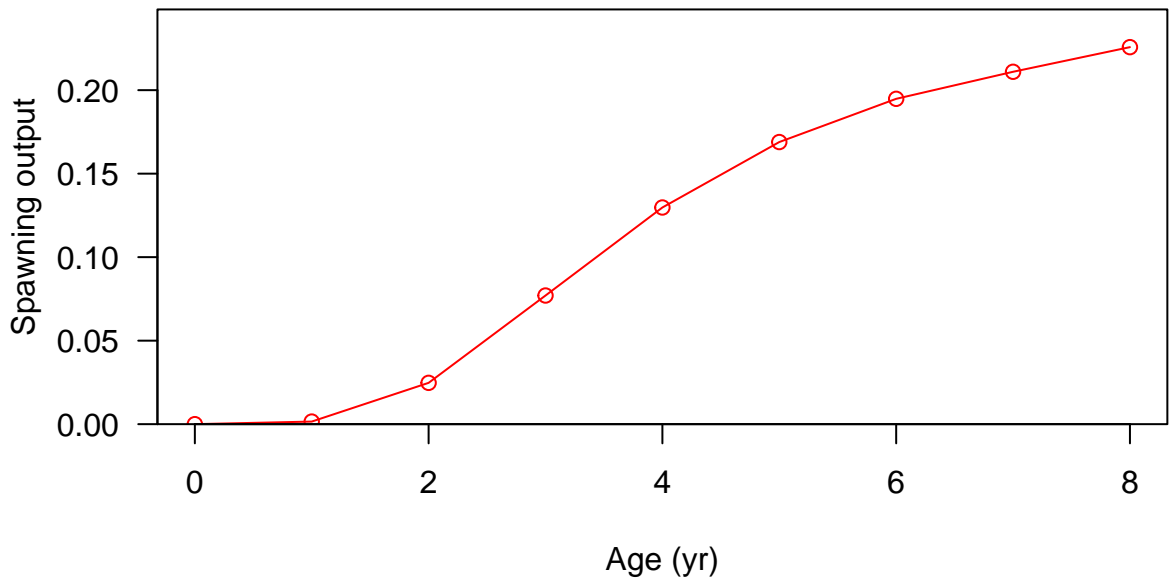




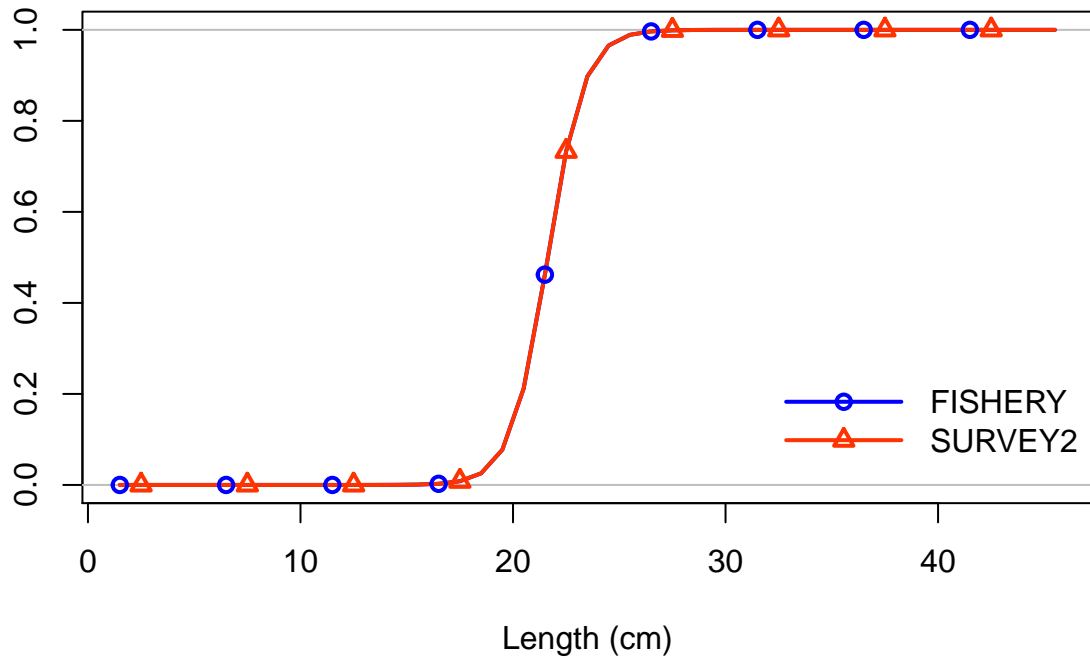




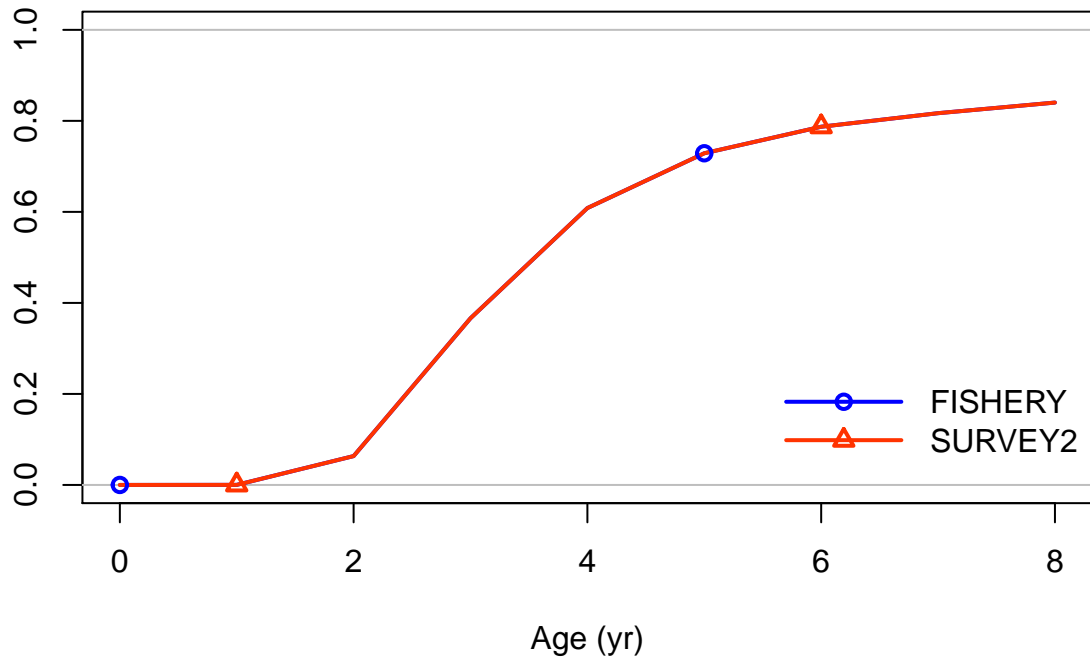




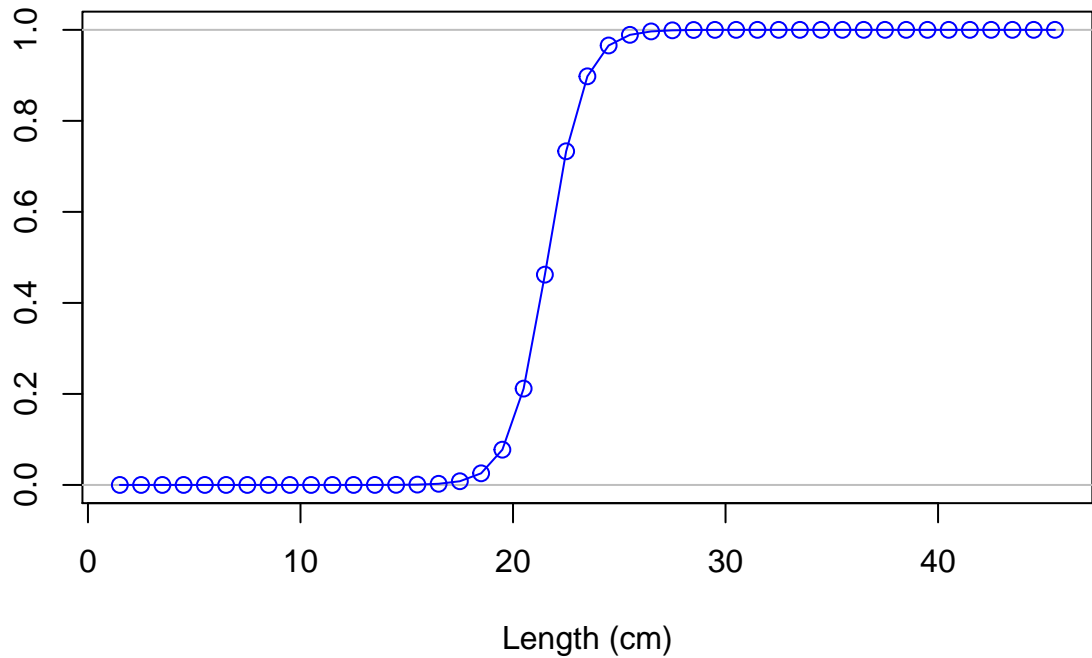
Selectivity



Selectivity

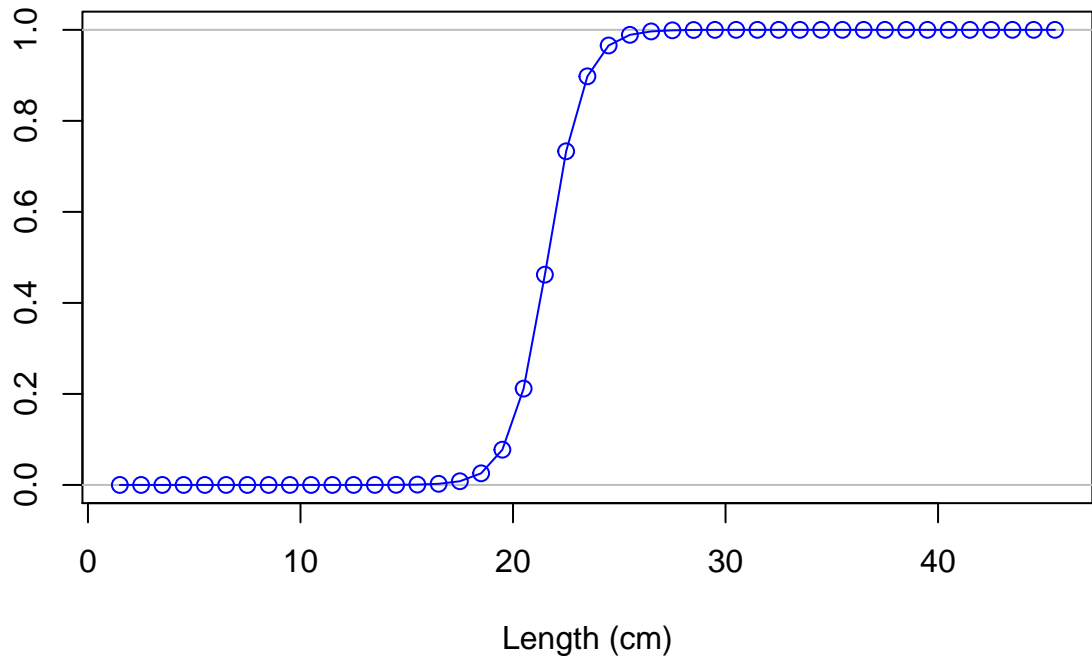


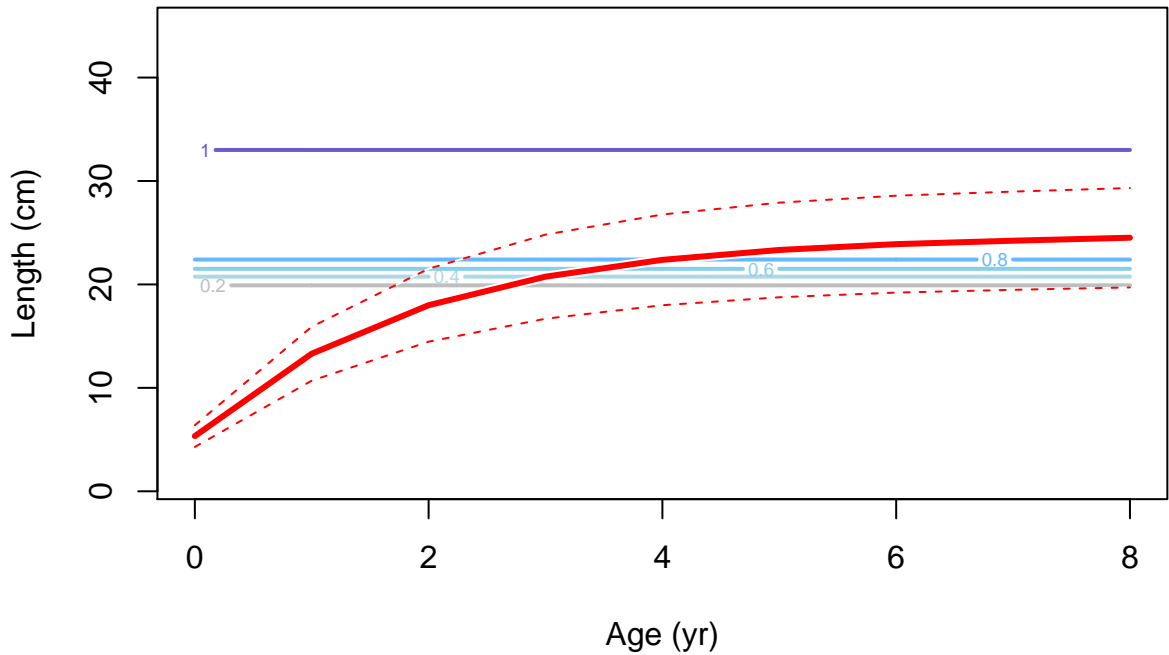
Selectivity

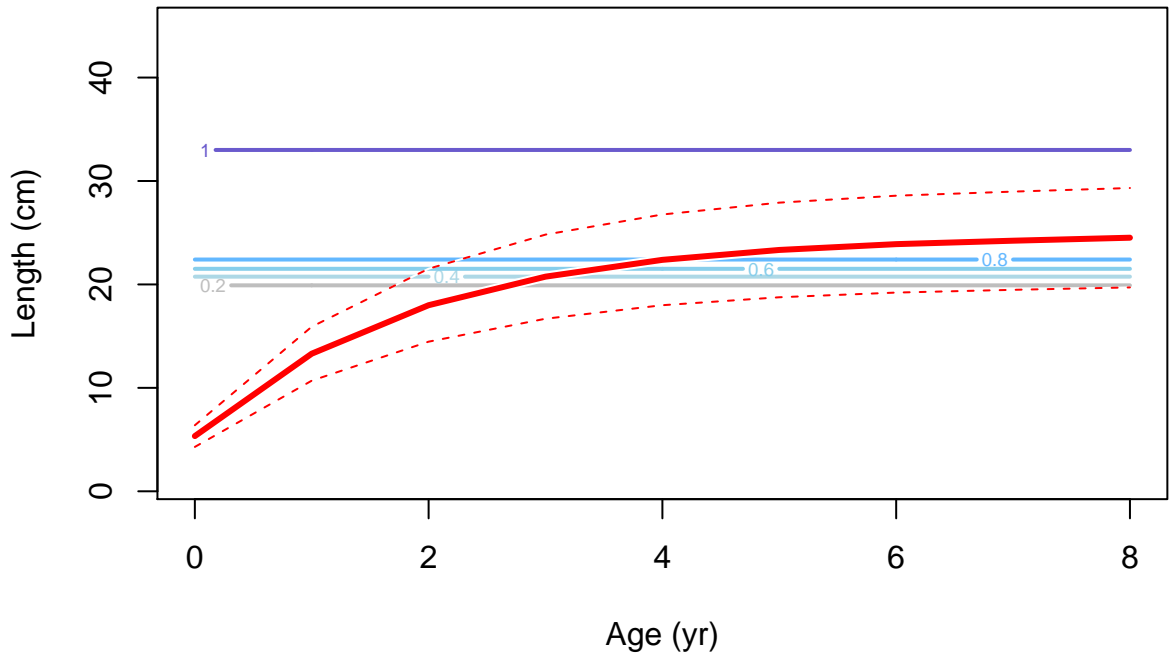




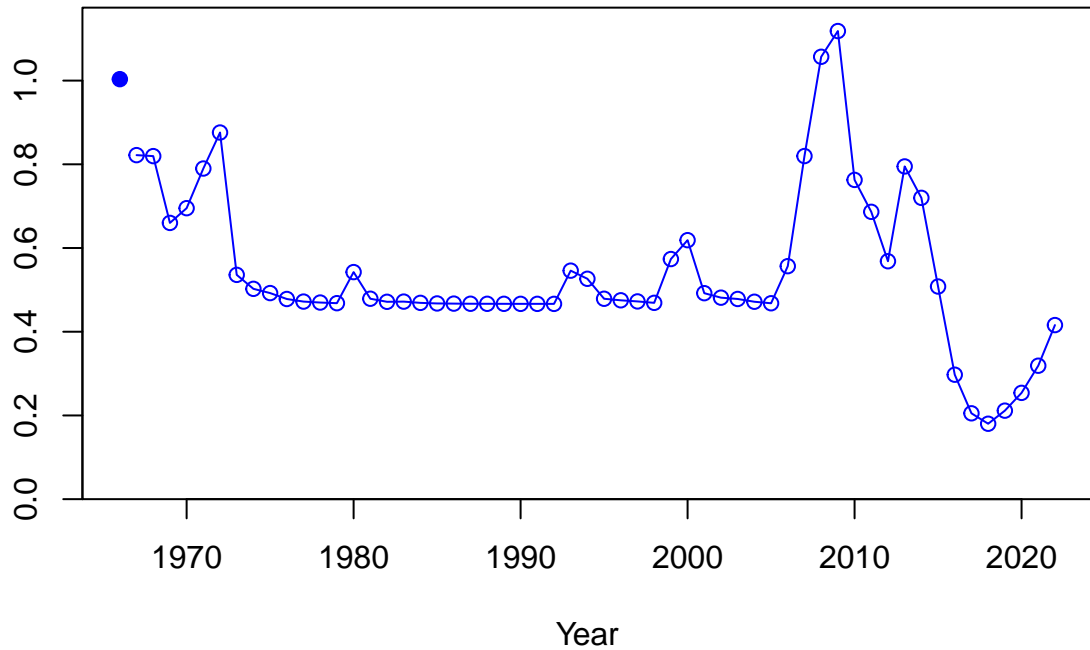
Selectivity



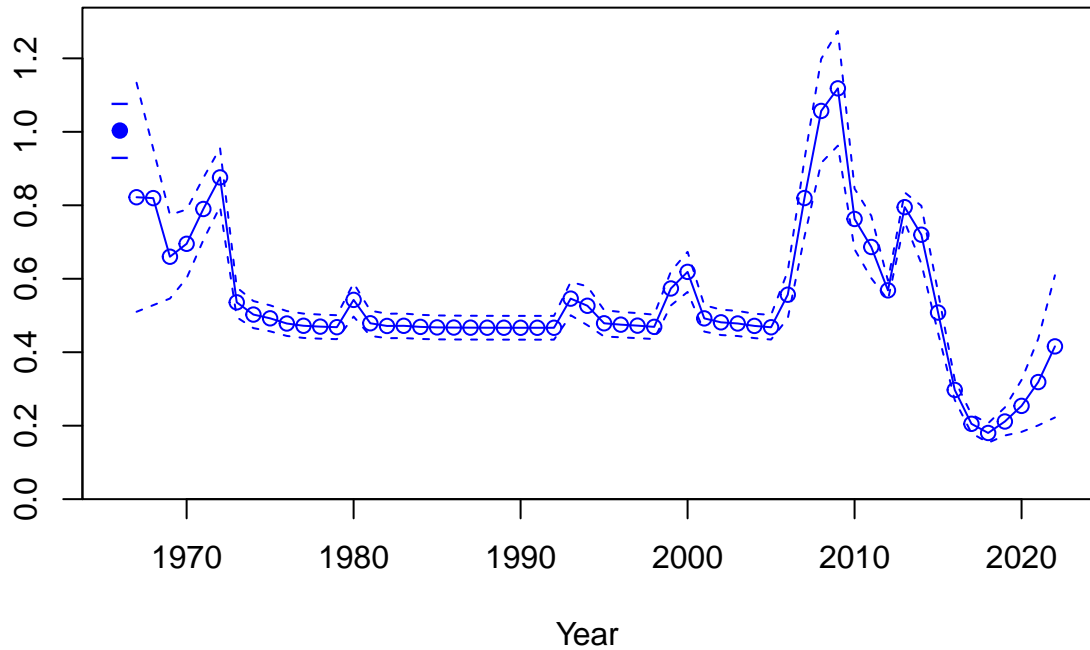




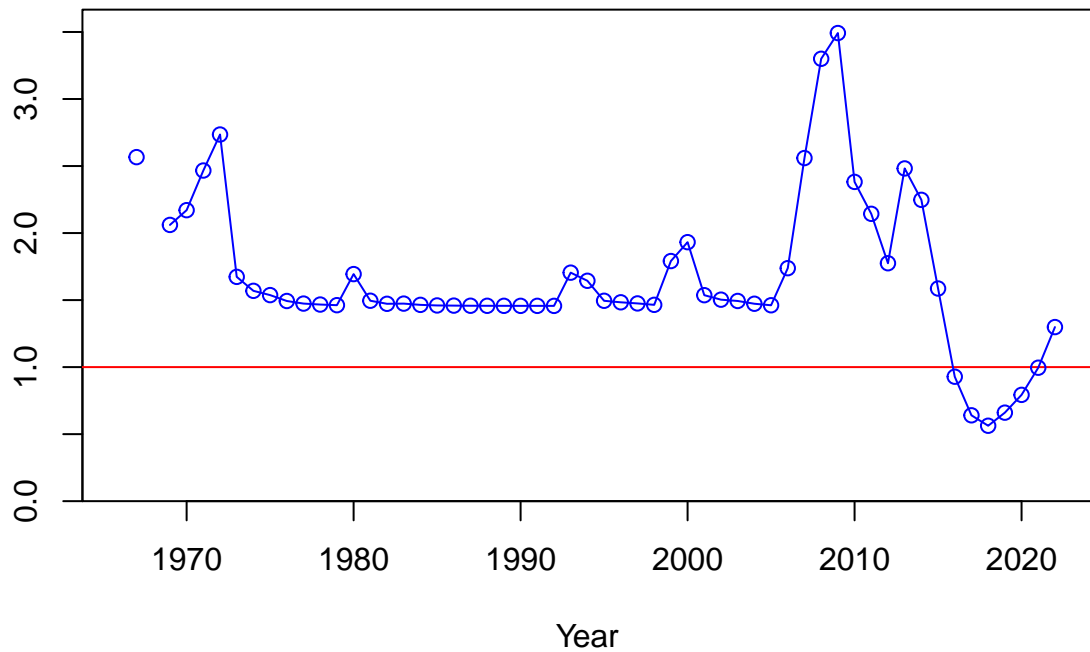
Spawning biomass (mt)



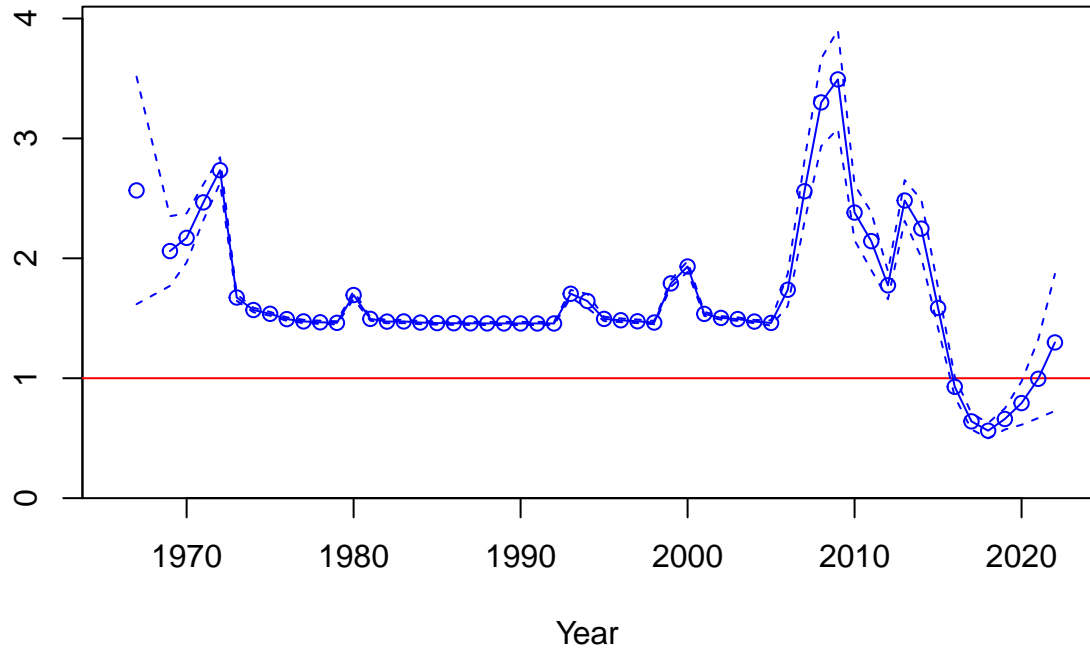
Spawning biomass (mt)

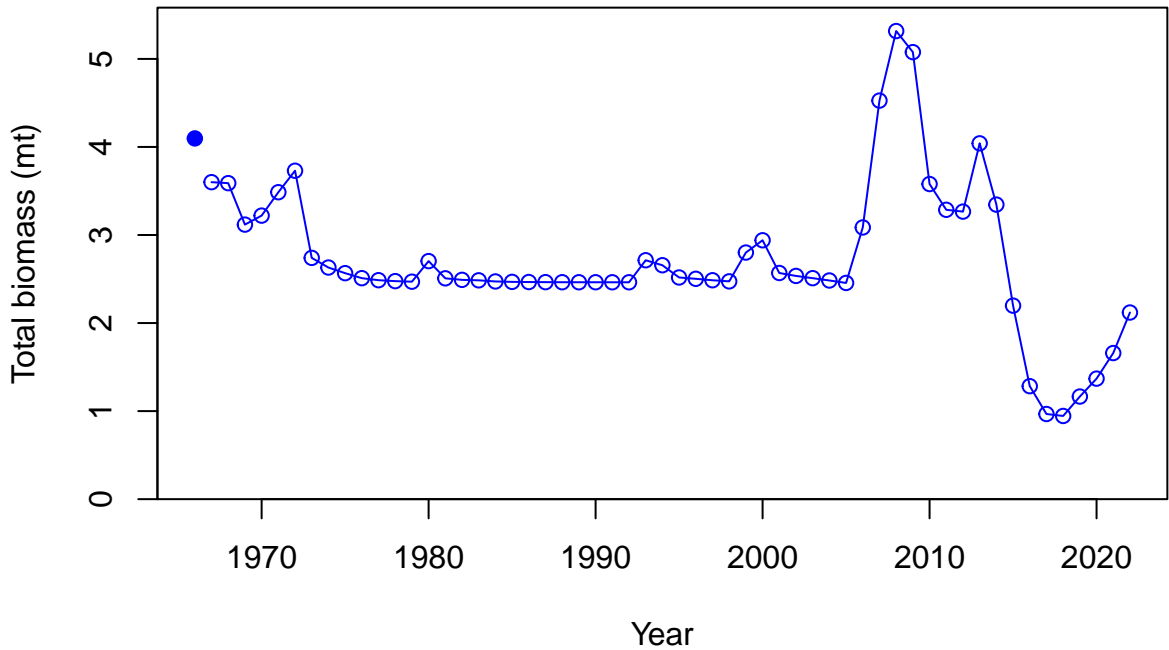


Relative spawning biomass:  $B/B_{MSY}$



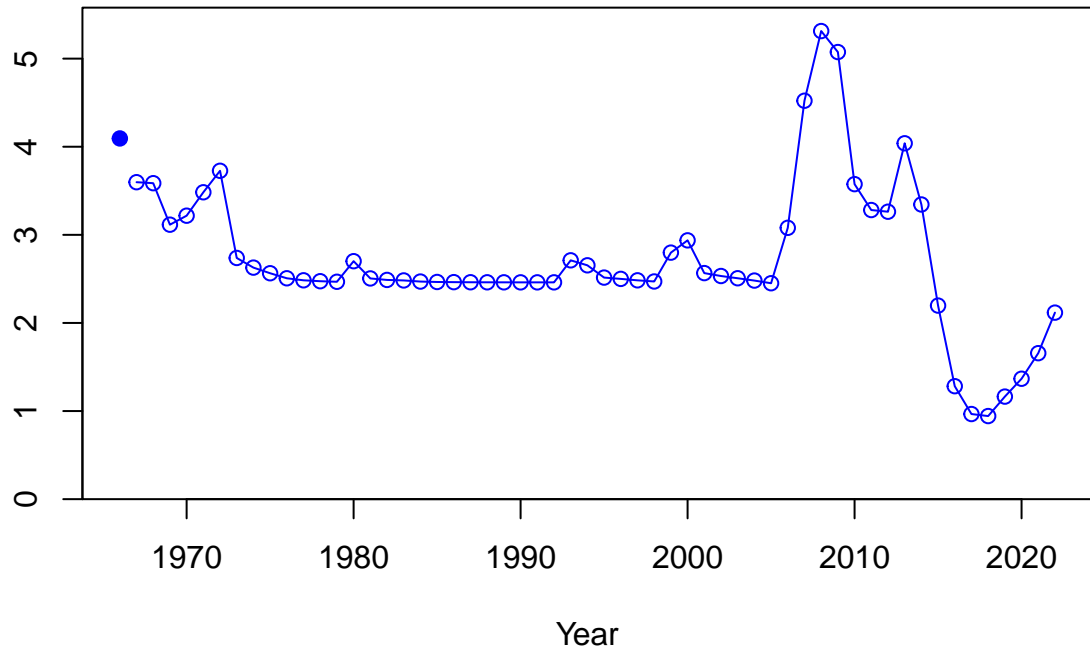
Relative spawning biomass:  $B/B_{MSY}$



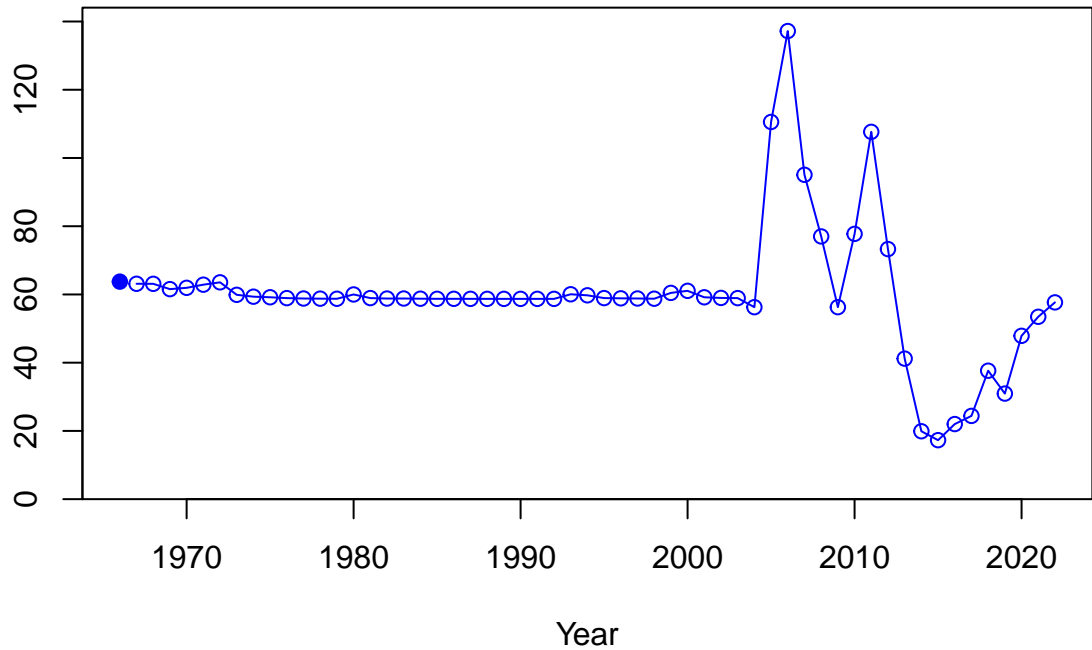




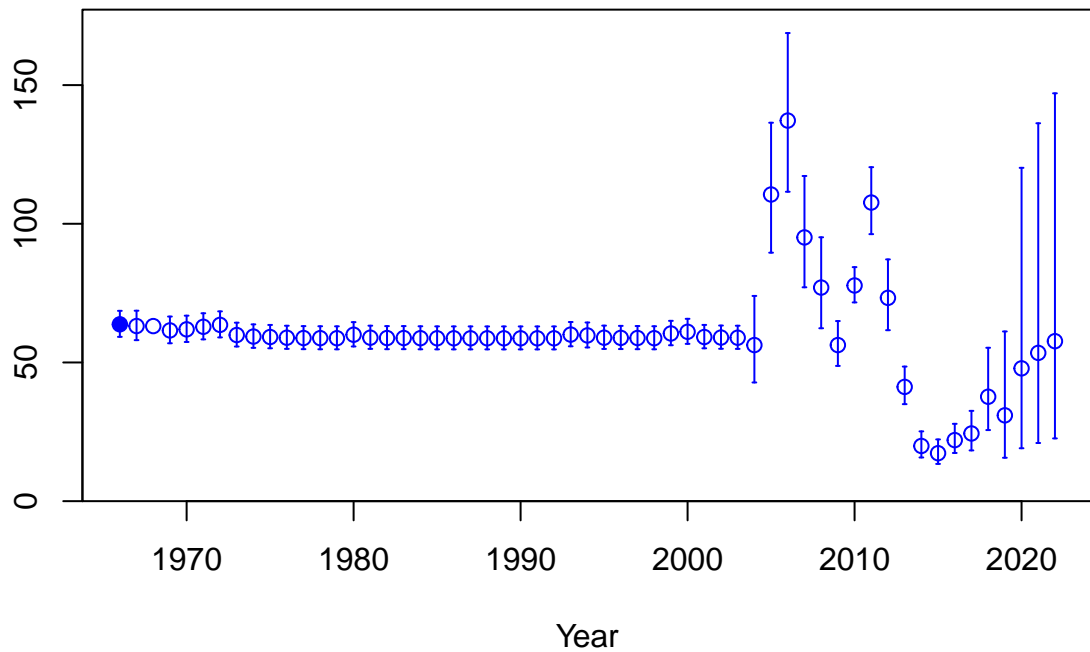
Summary biomass (mt)



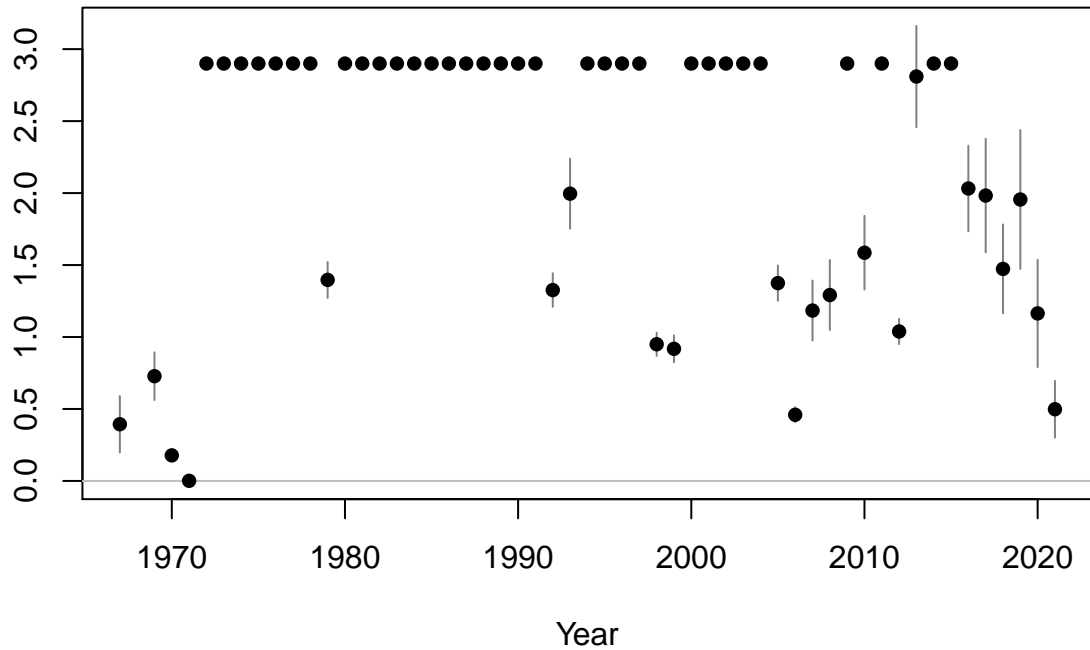
Age-0 recruits (1,000s)



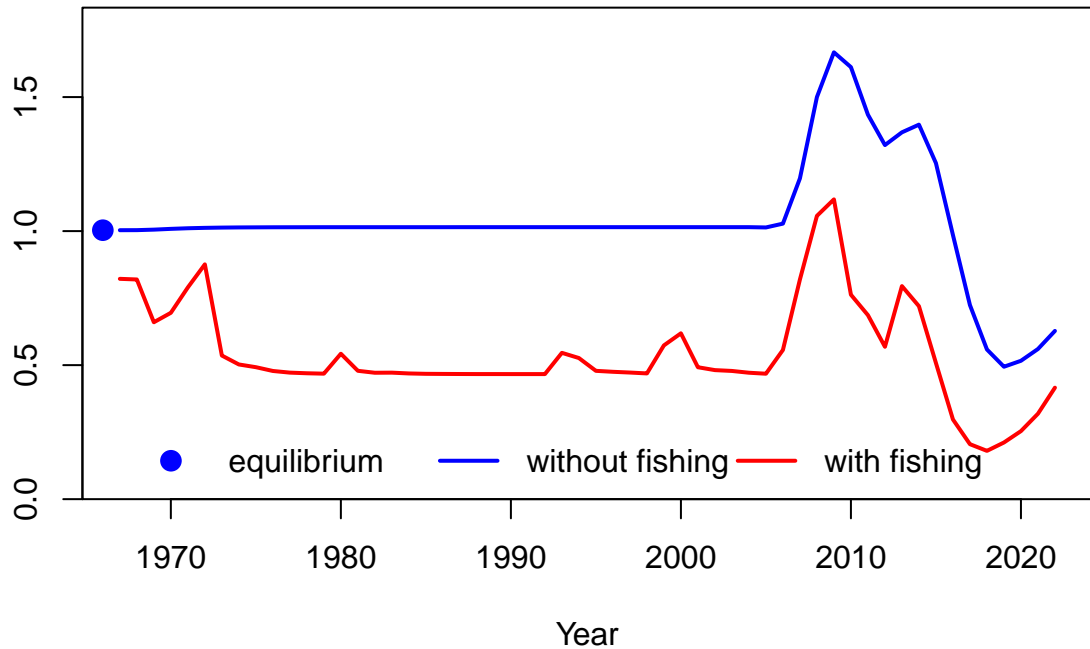
Age-0 recruits (1,000s)

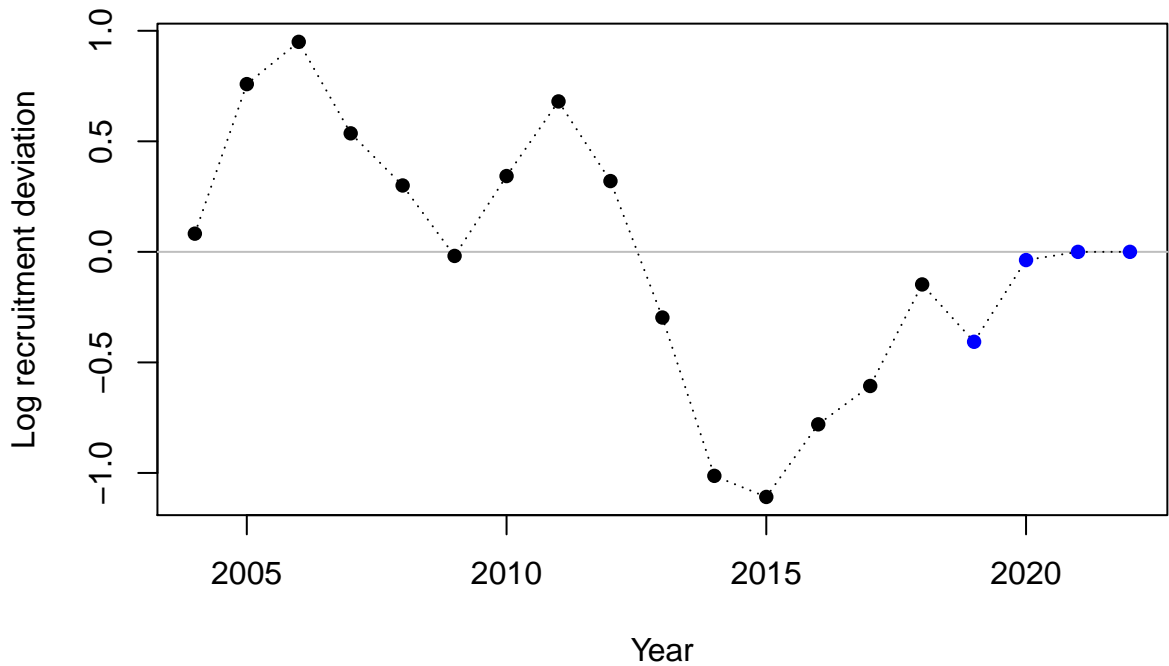


Summary Fishing Mortality

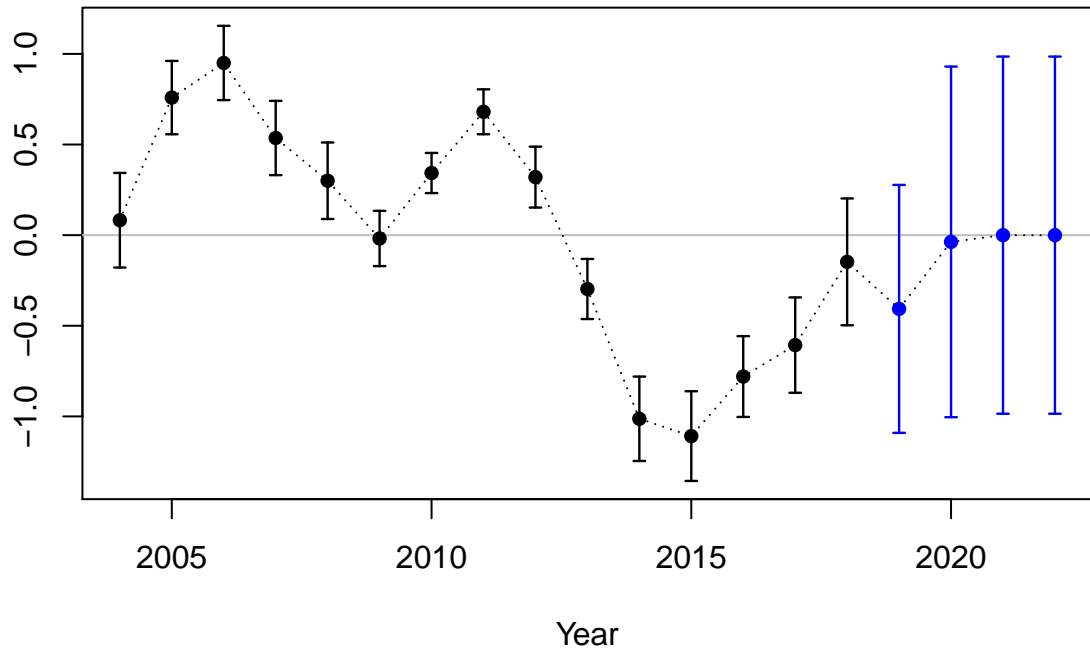


Spawning biomass (mt)

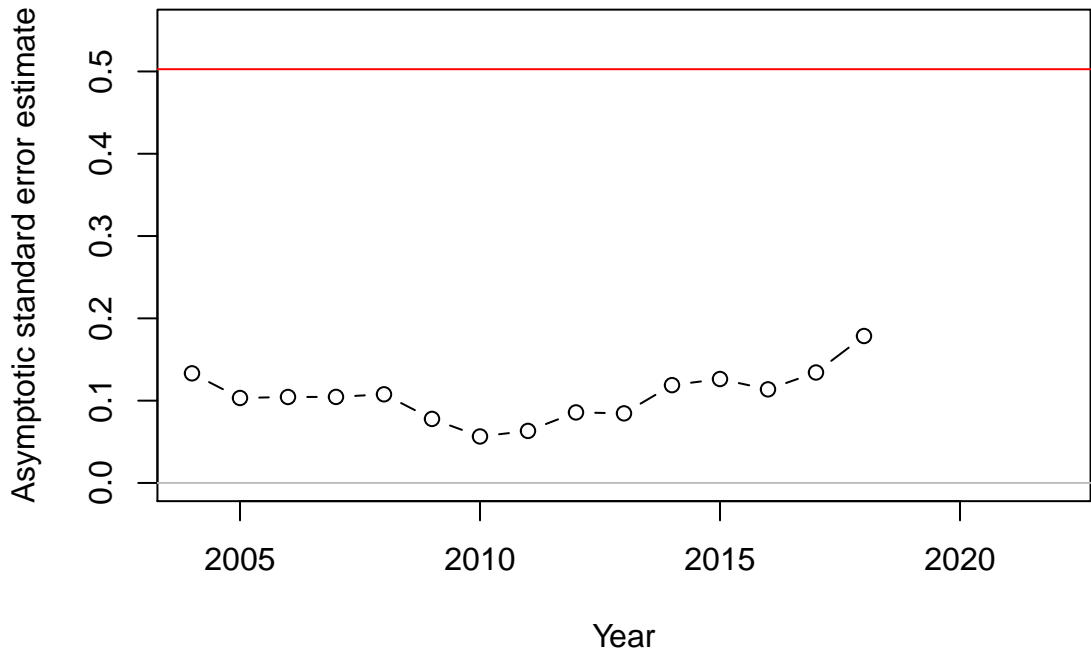




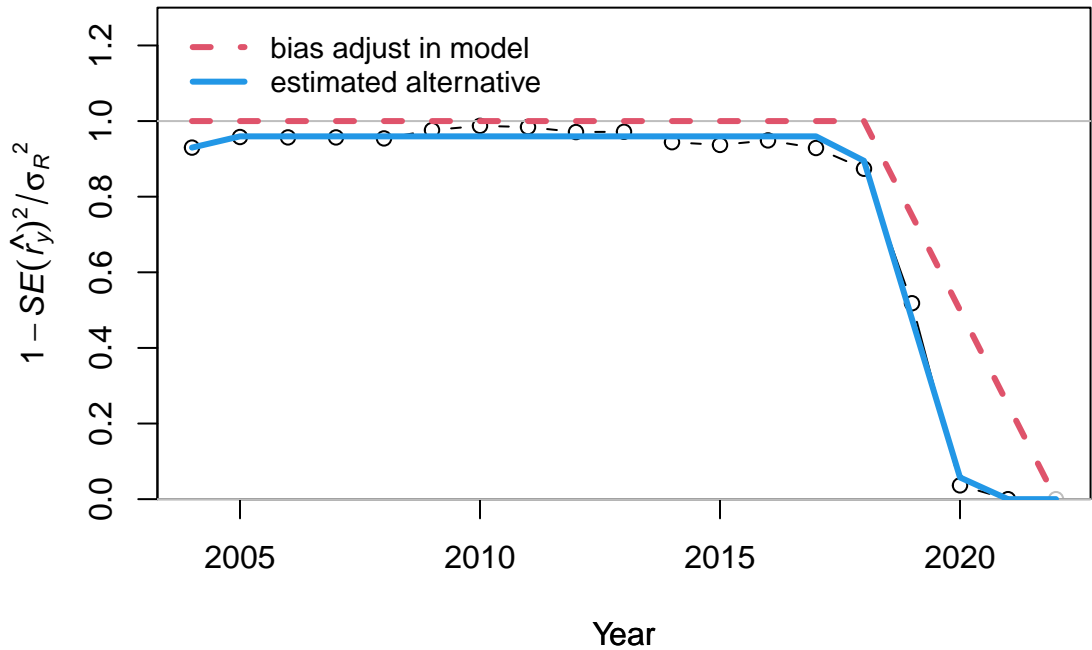
Log recruitment deviation

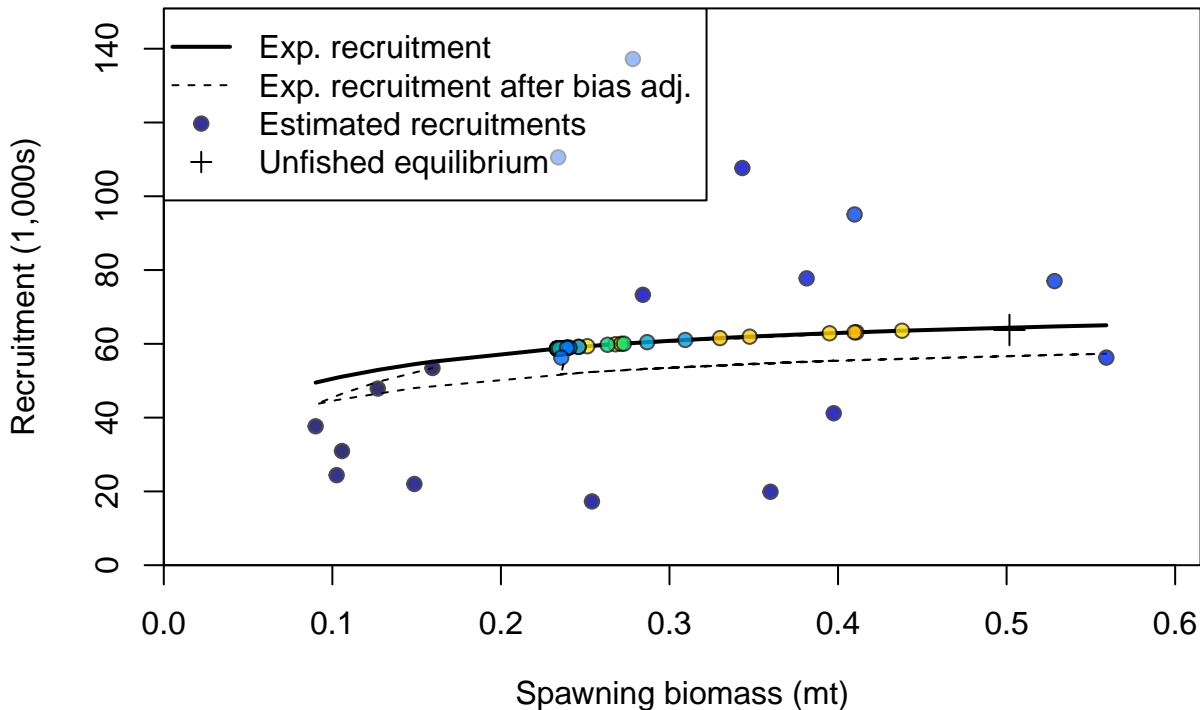


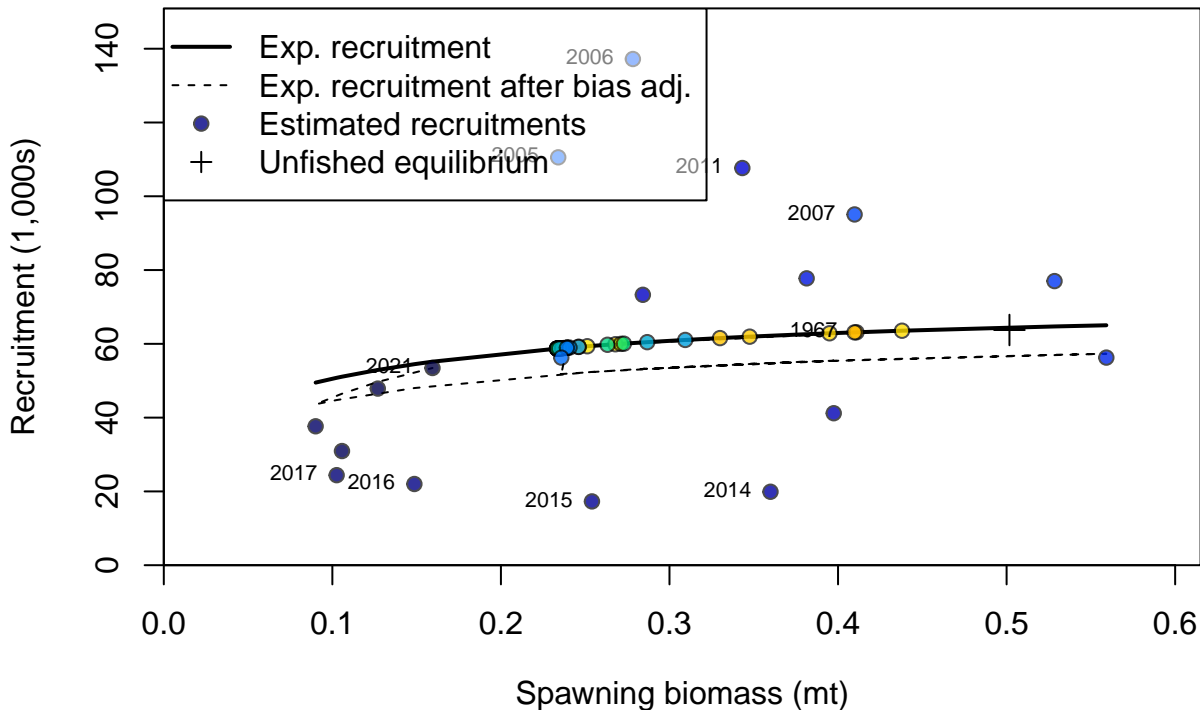
## Recruitment deviation variance



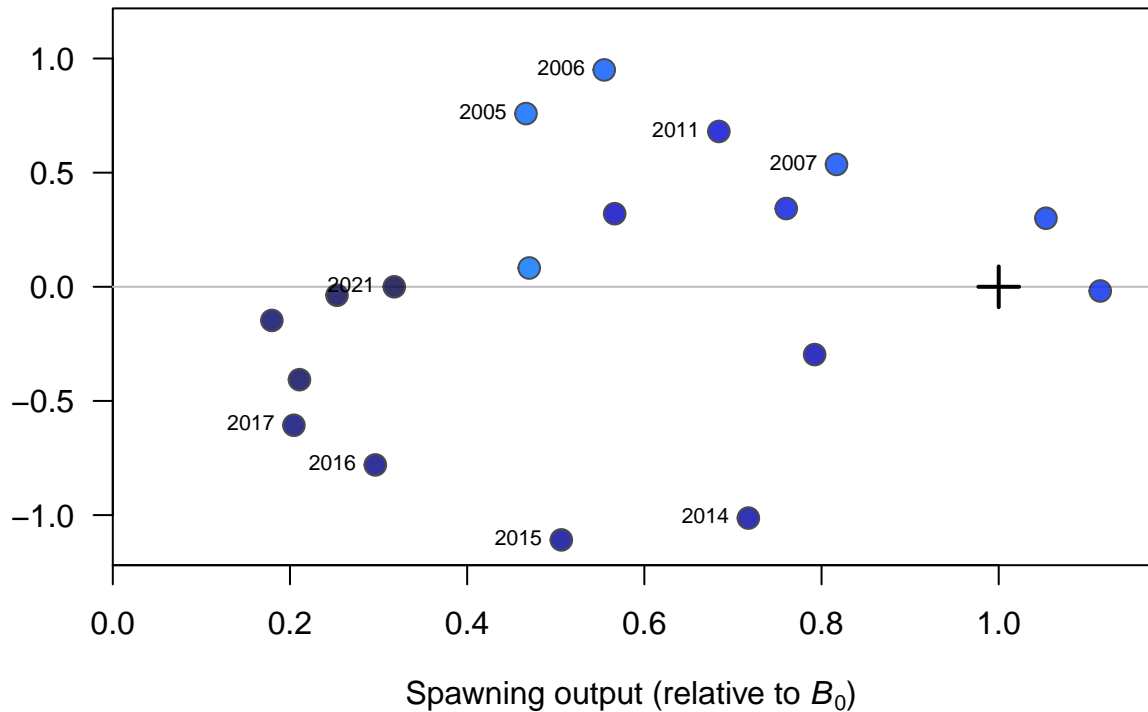


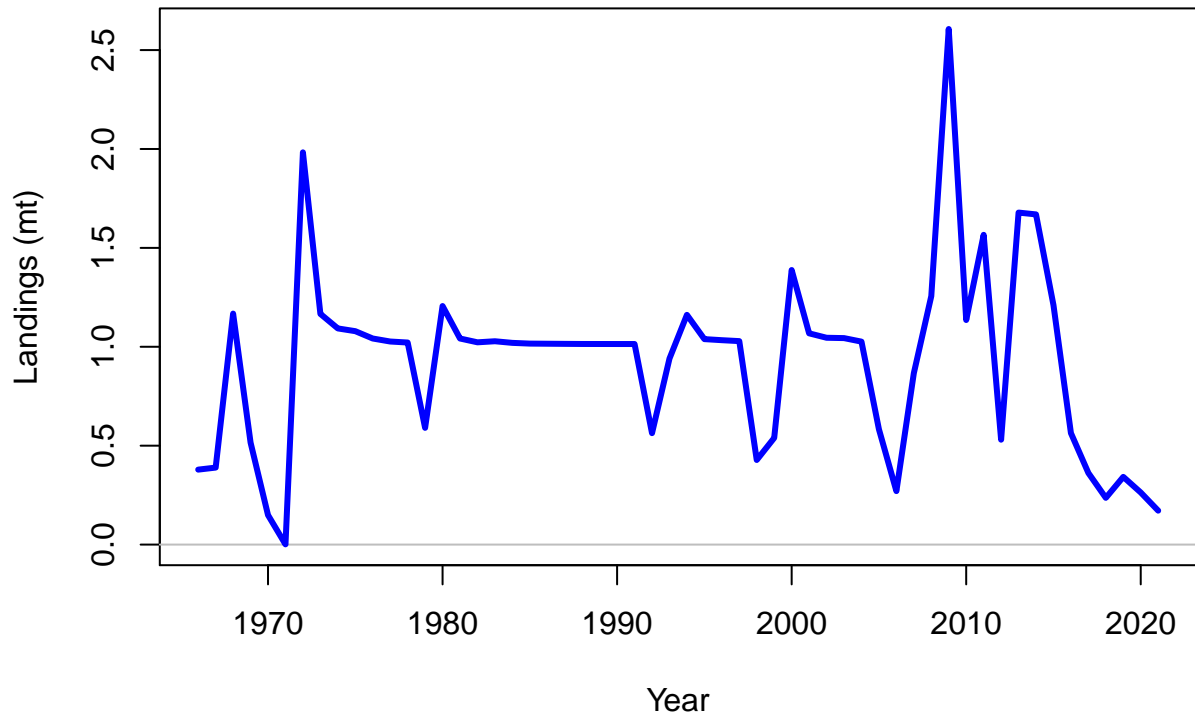


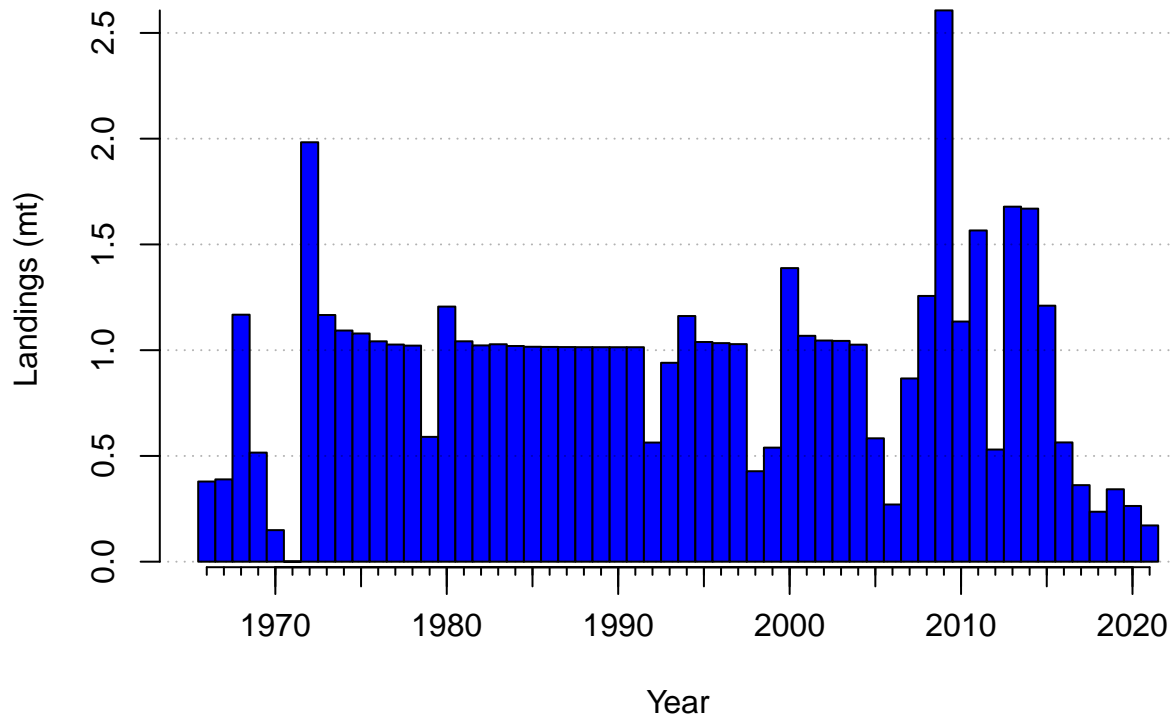




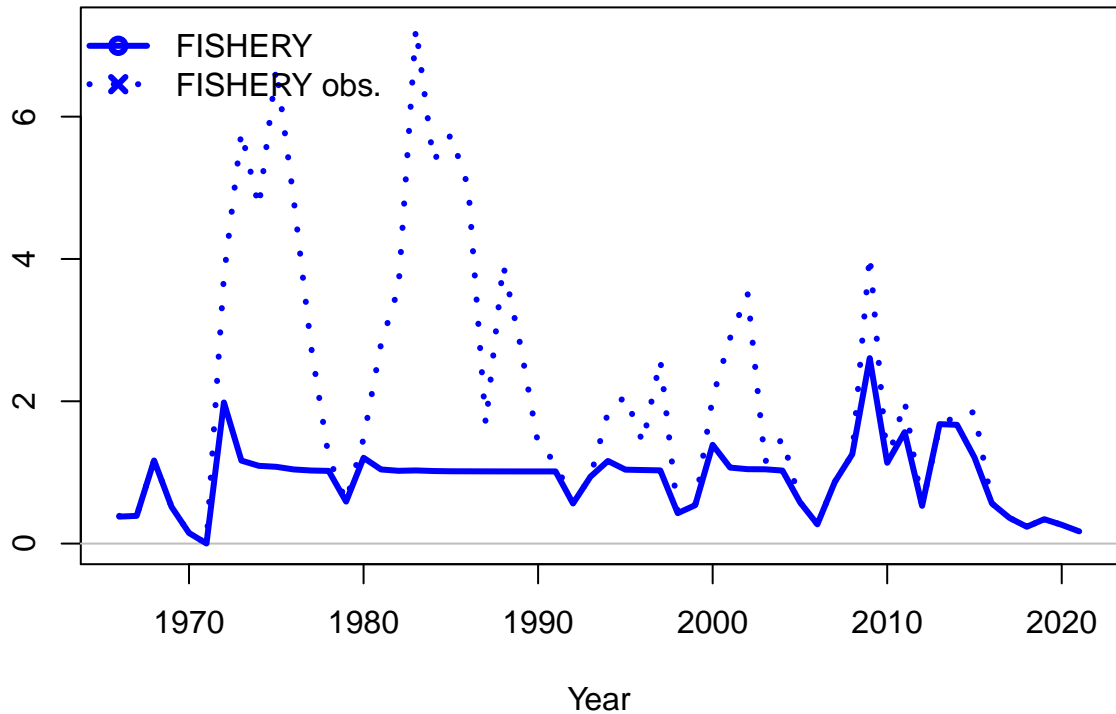
Log recruitment deviation

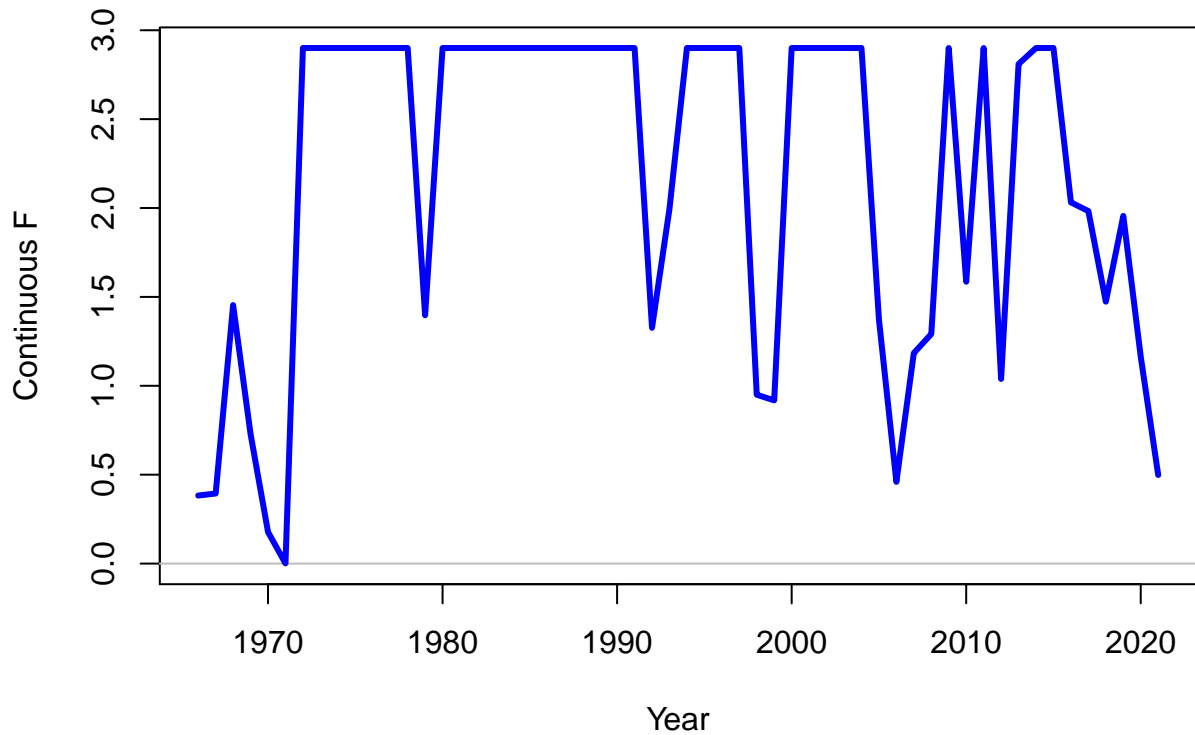






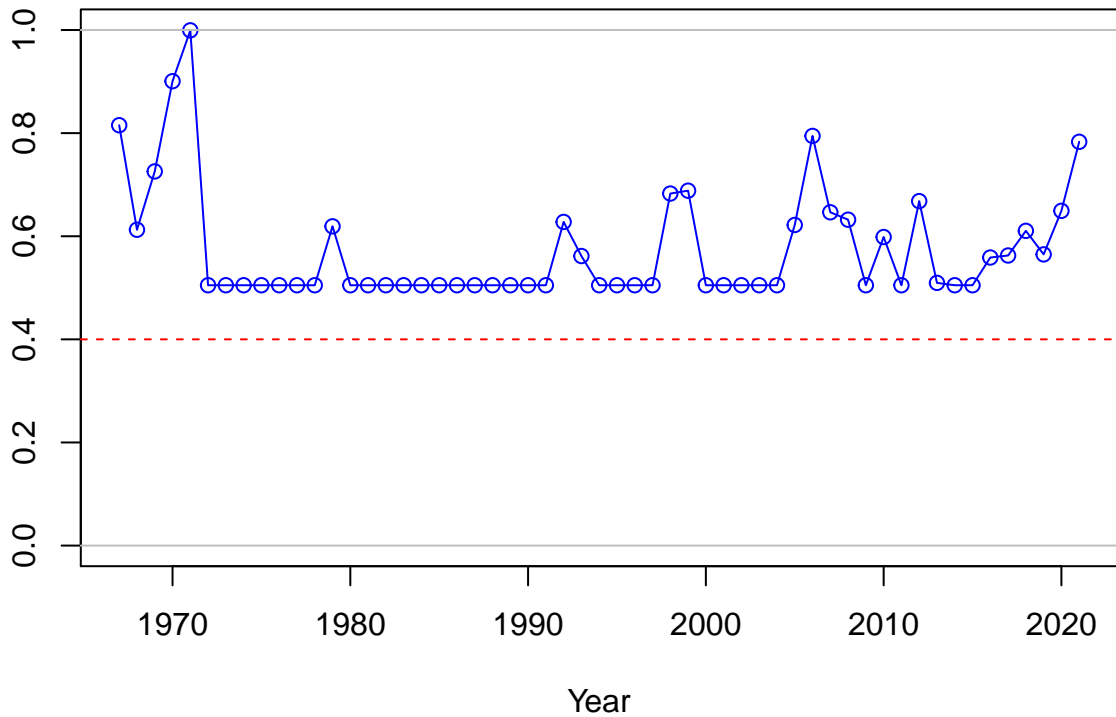
Observed and expected Landings (mt)



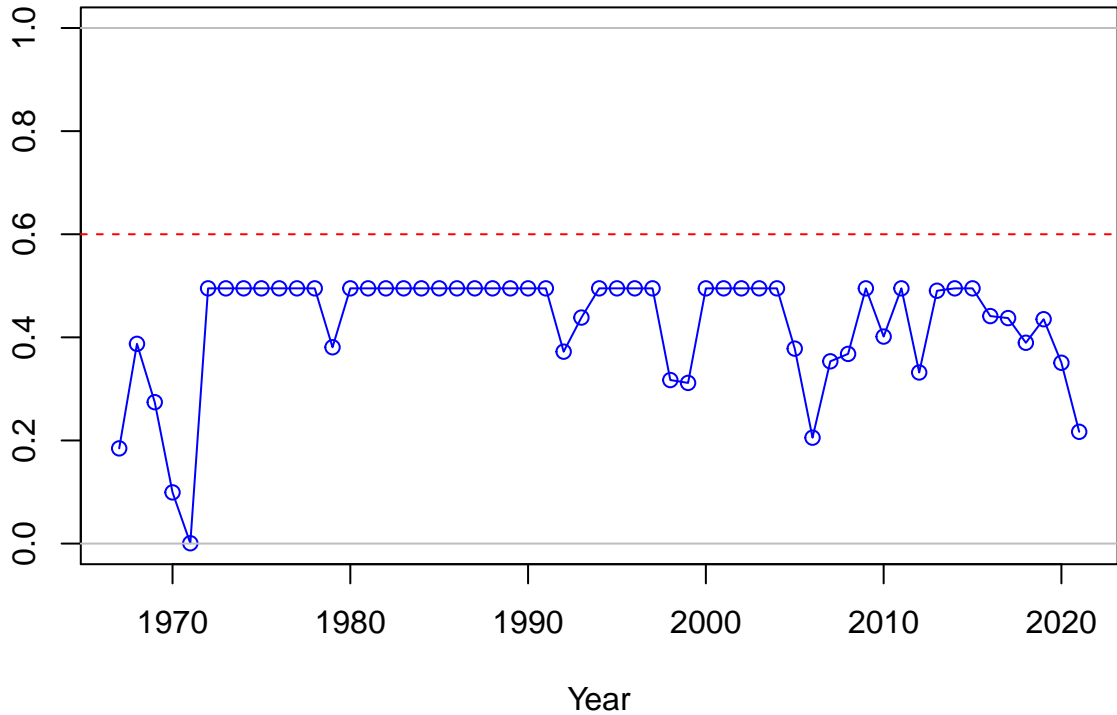




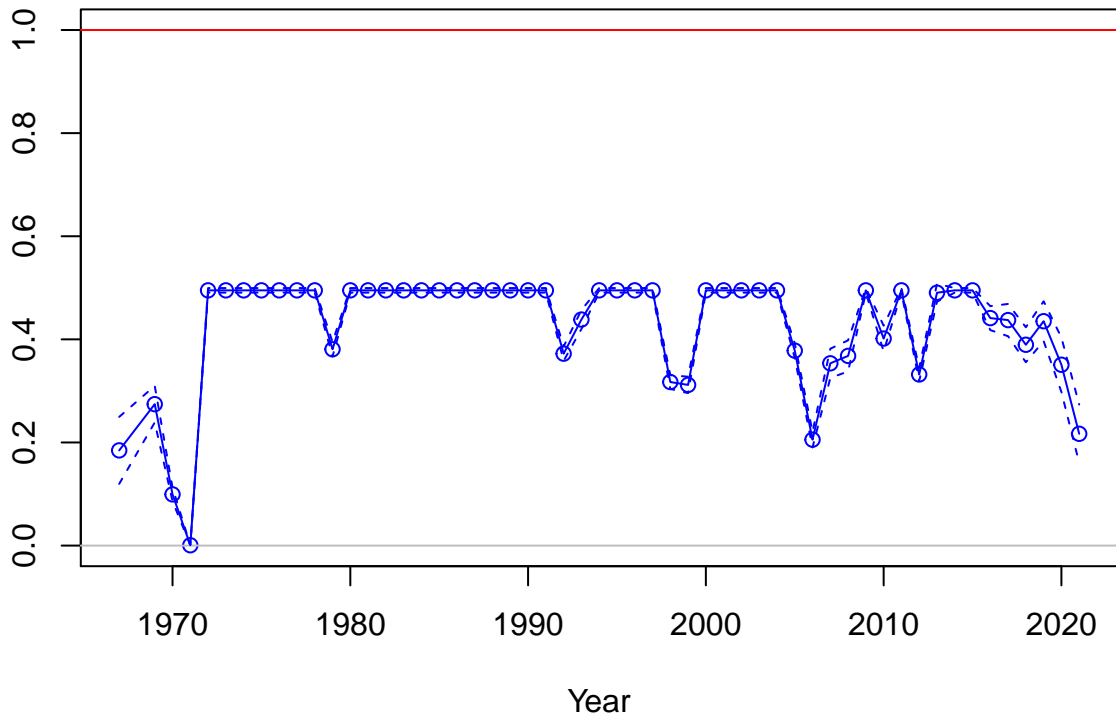
SPR



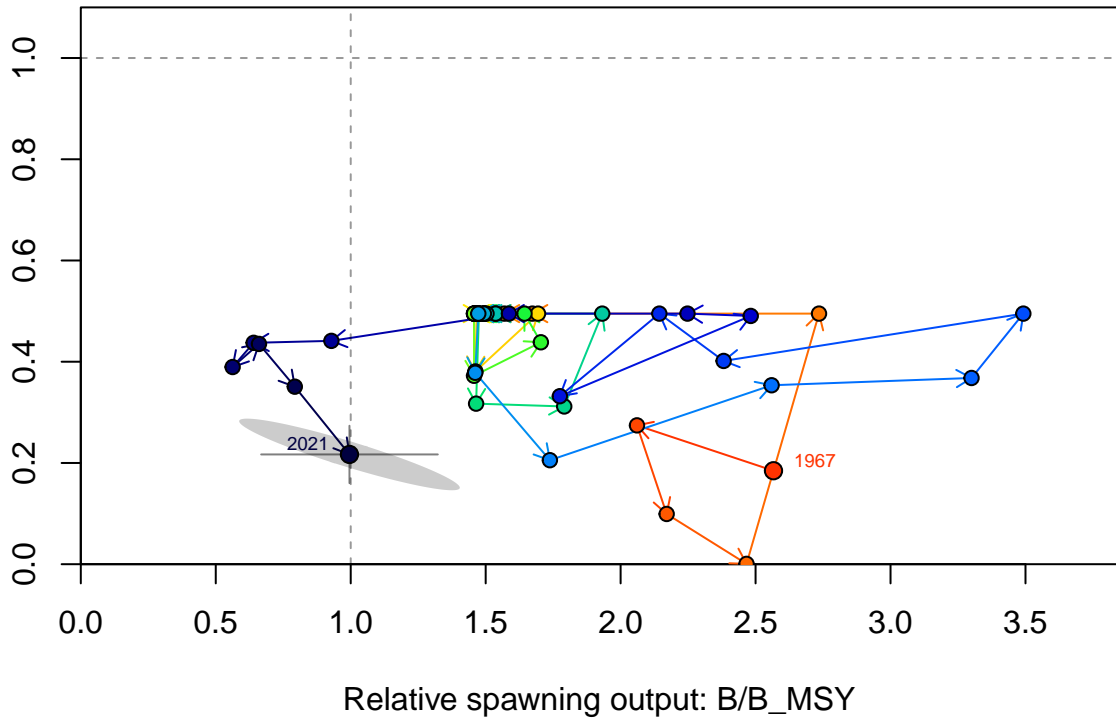
1-SPR



Fishing intensity: 1-SPR



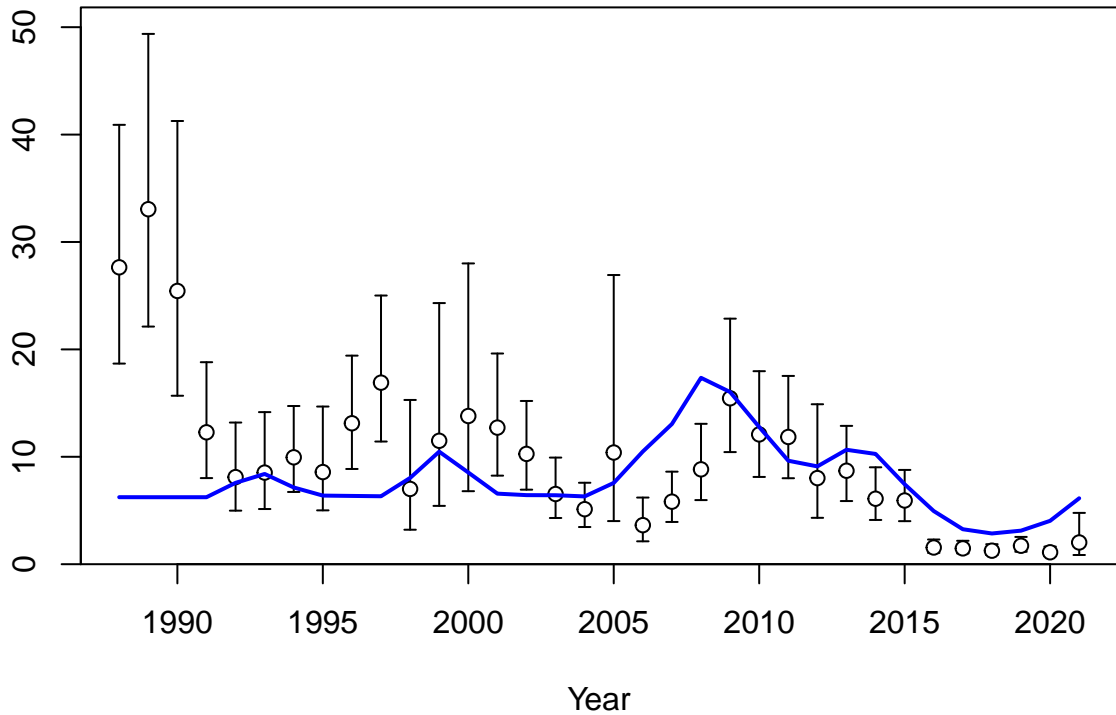
Fishing intensity: 1-SPR

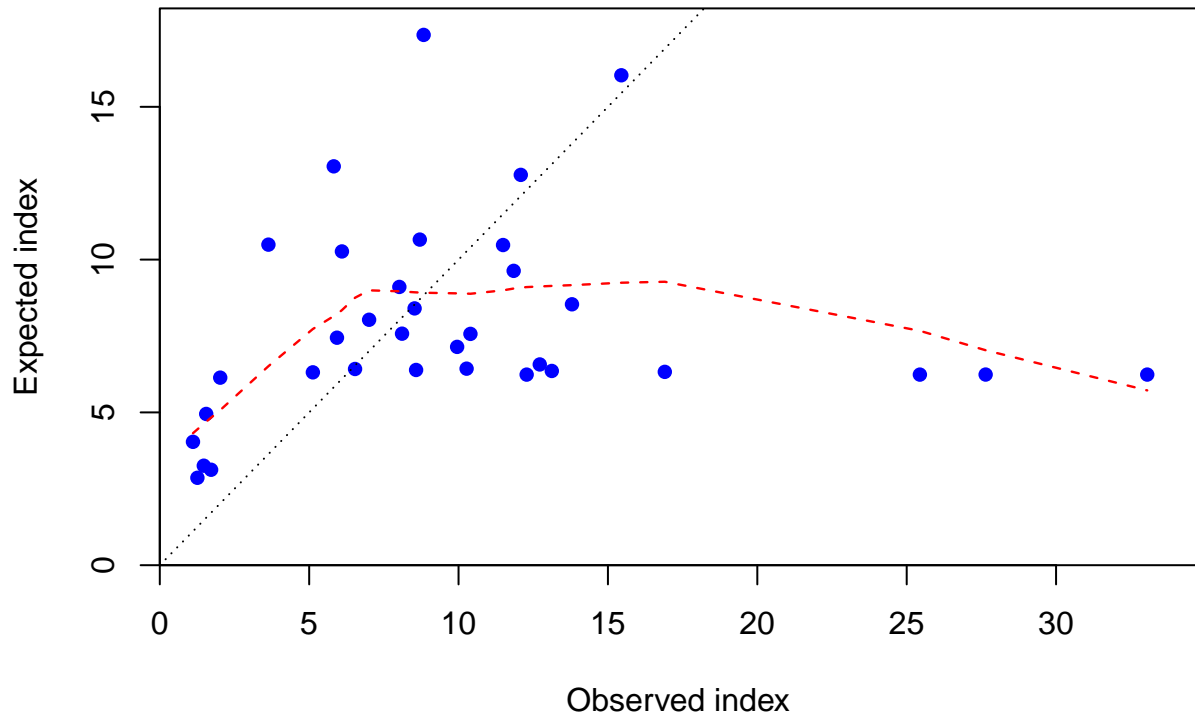


Index



Index



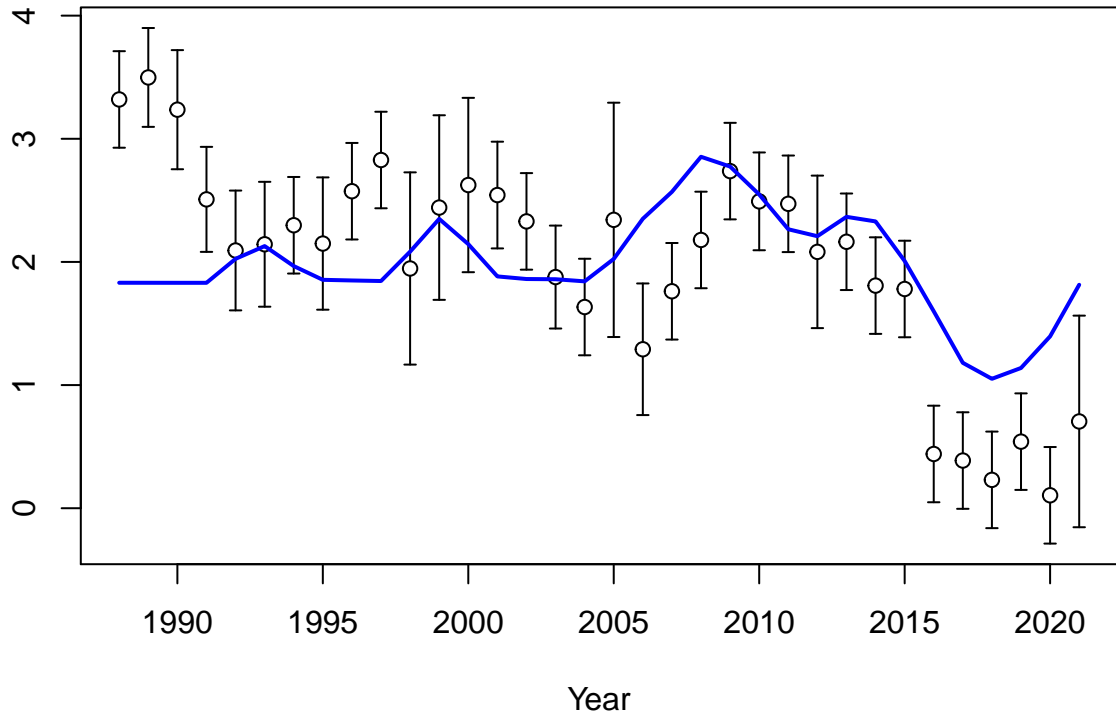


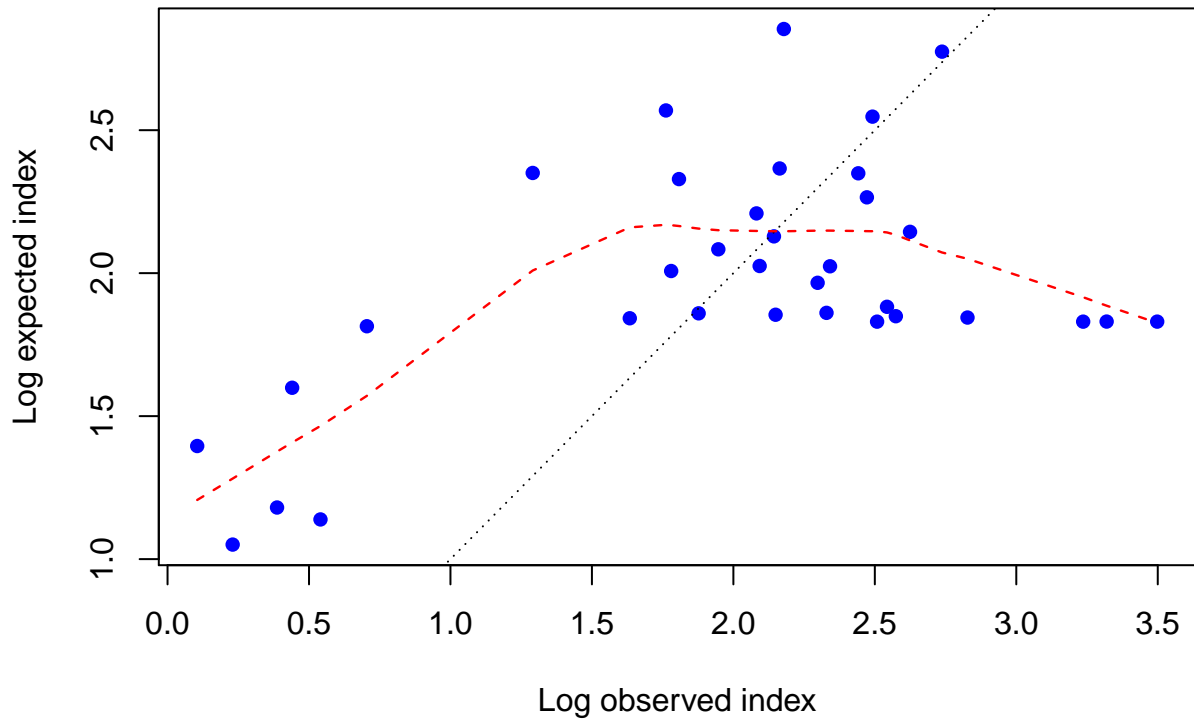
Log index

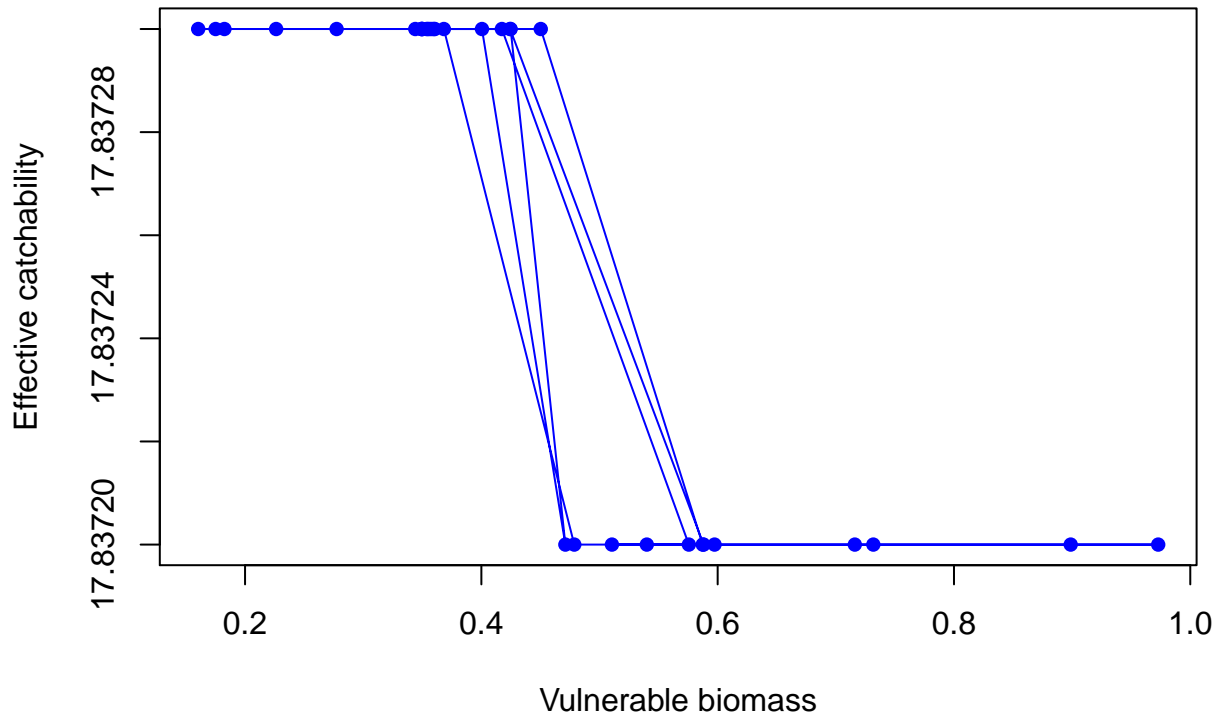


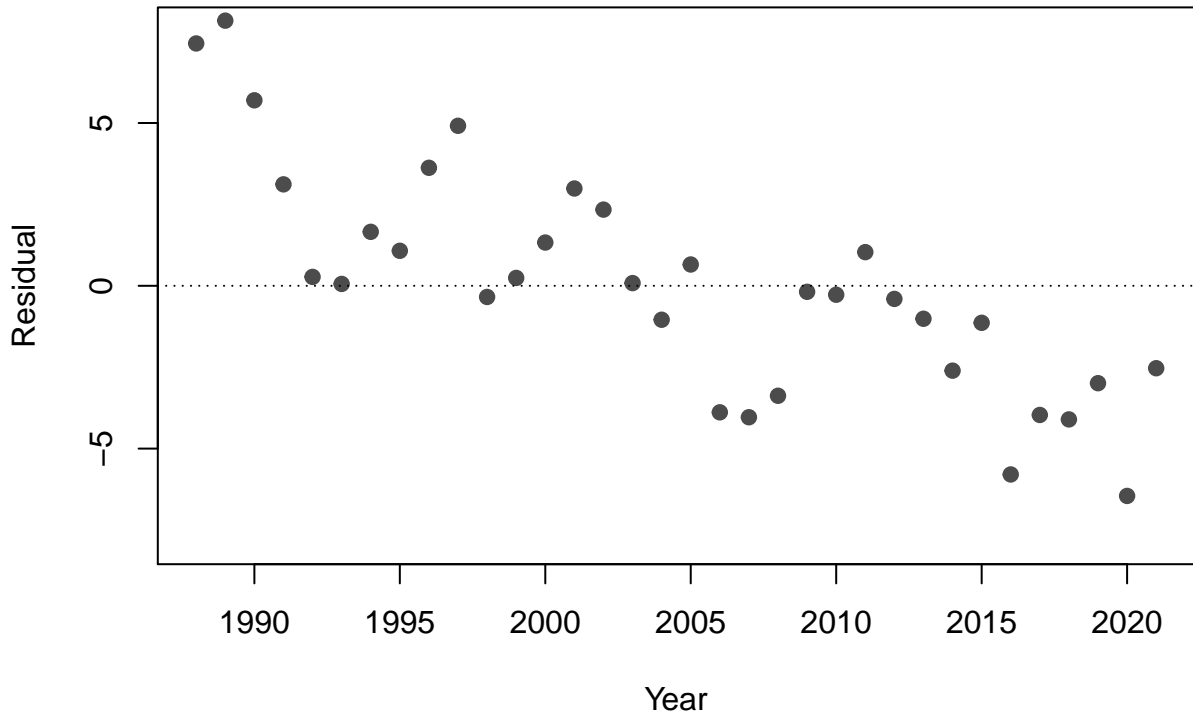


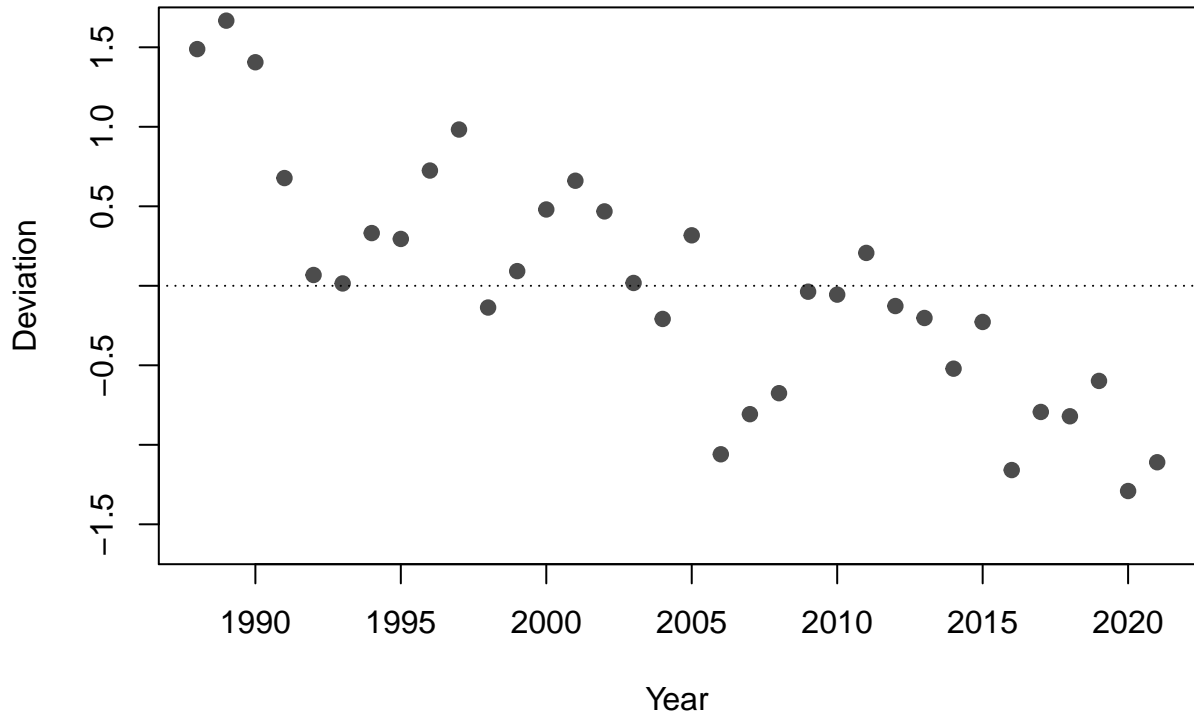
Log index



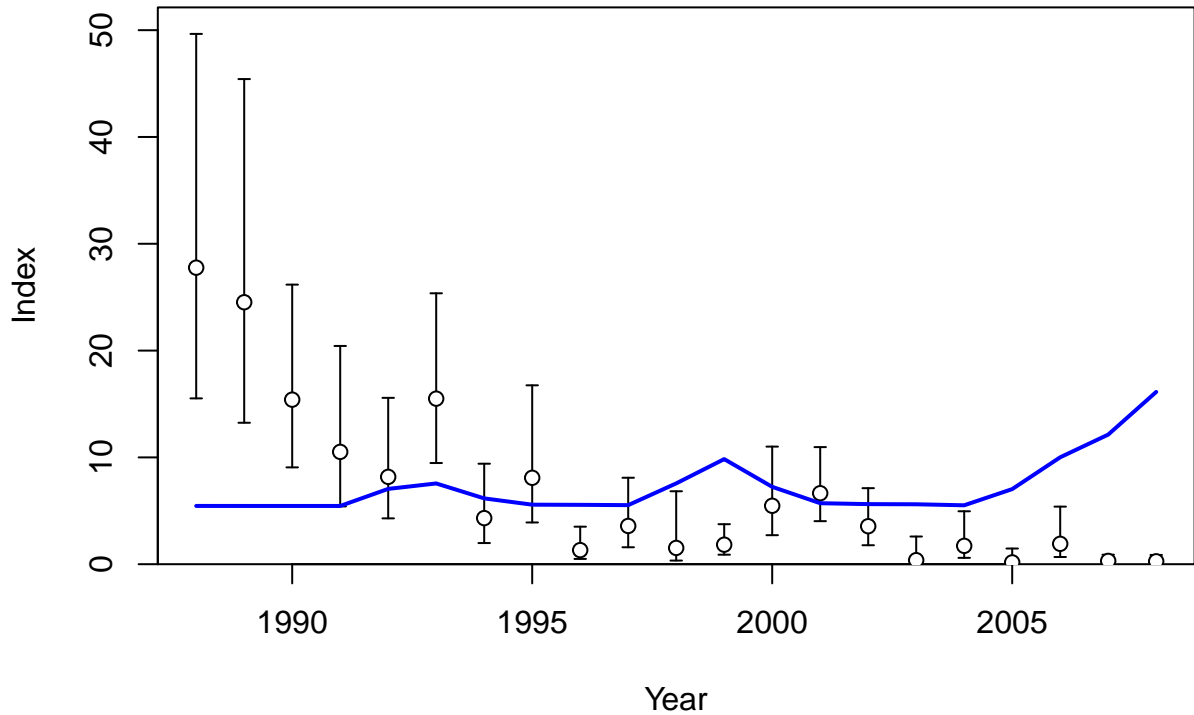


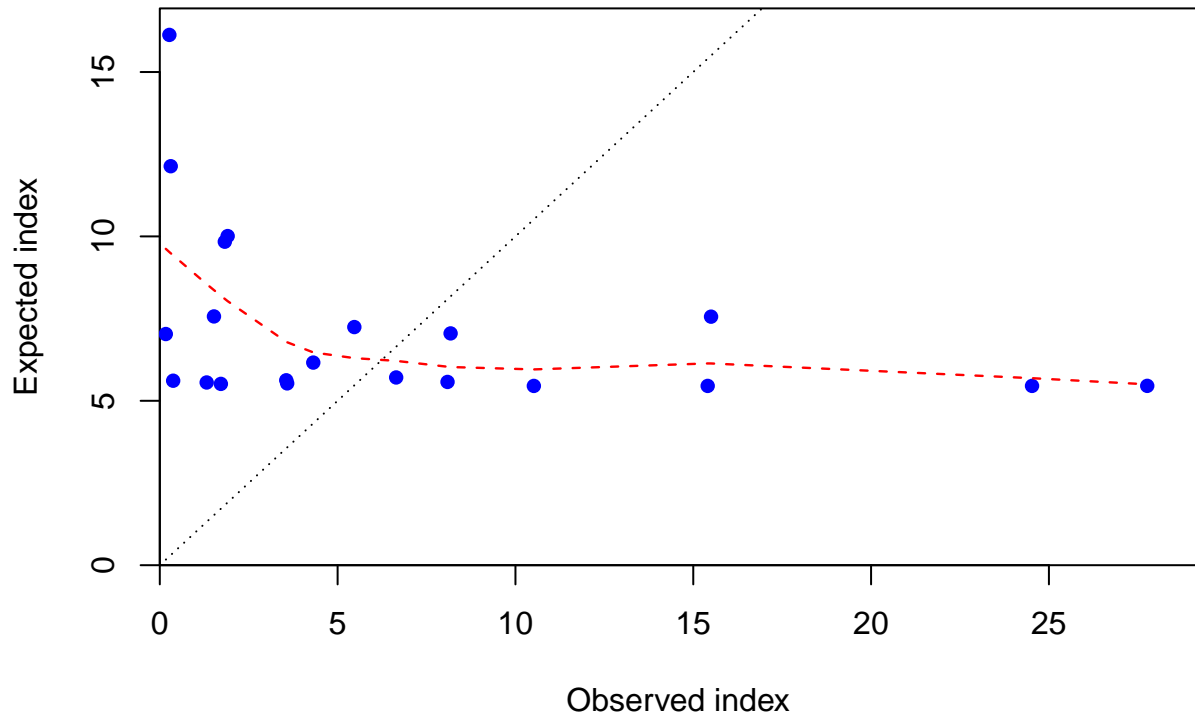






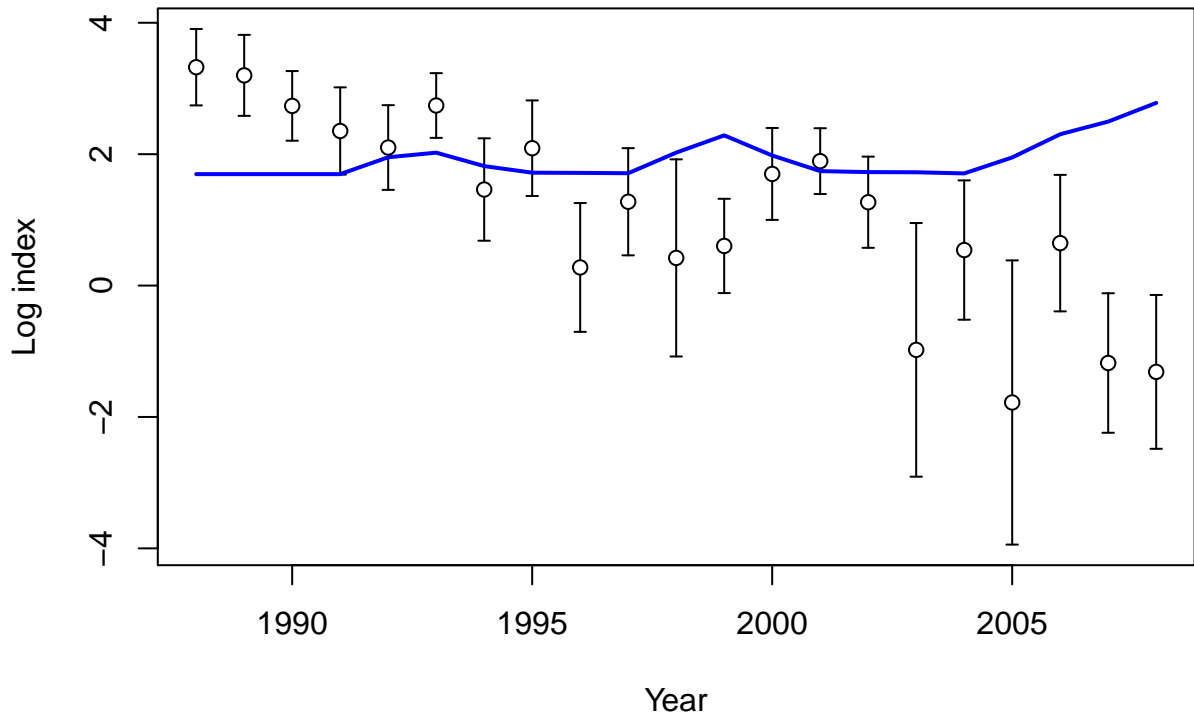




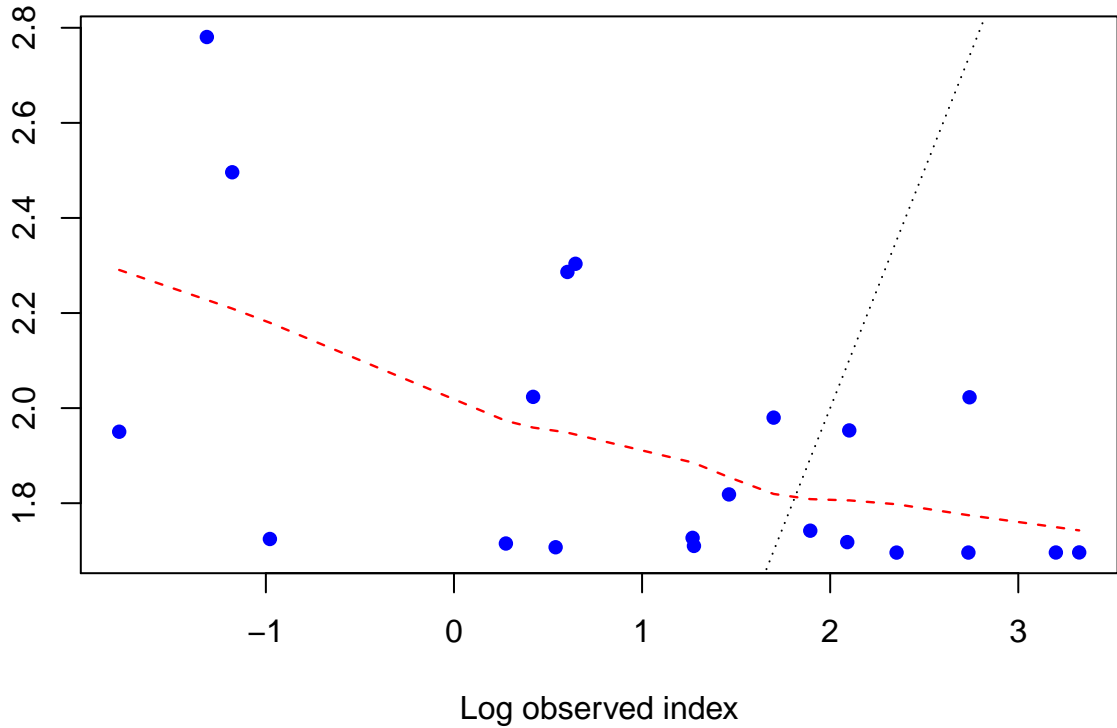


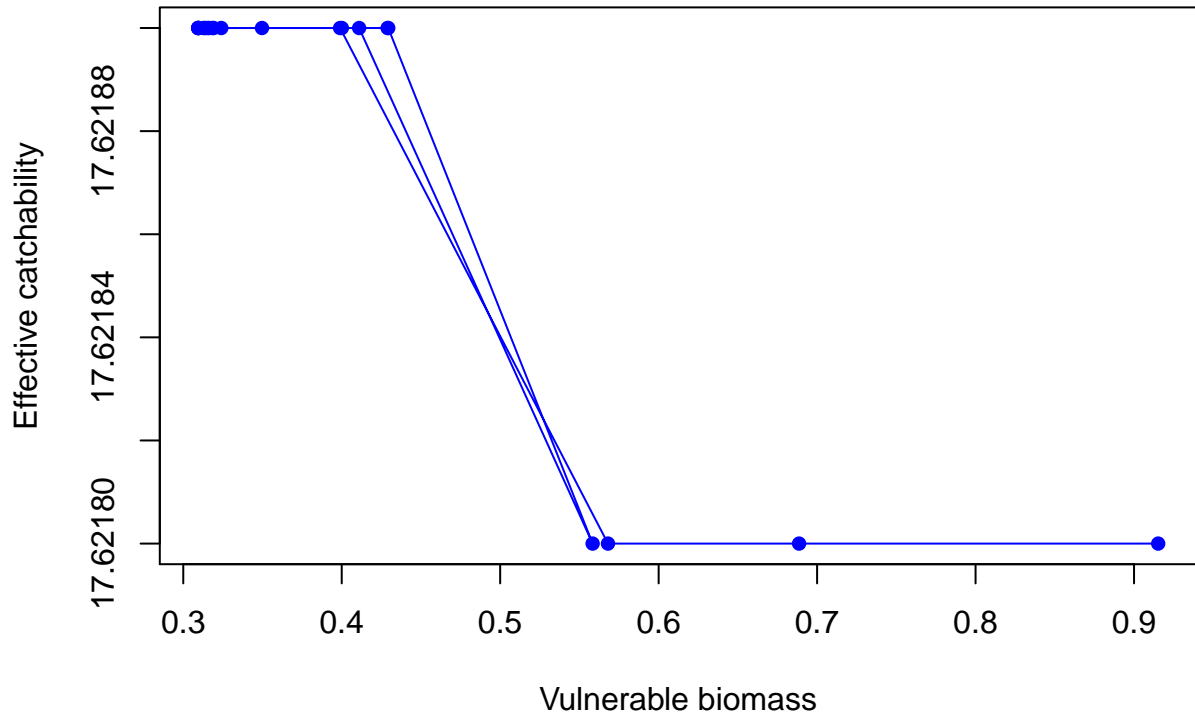


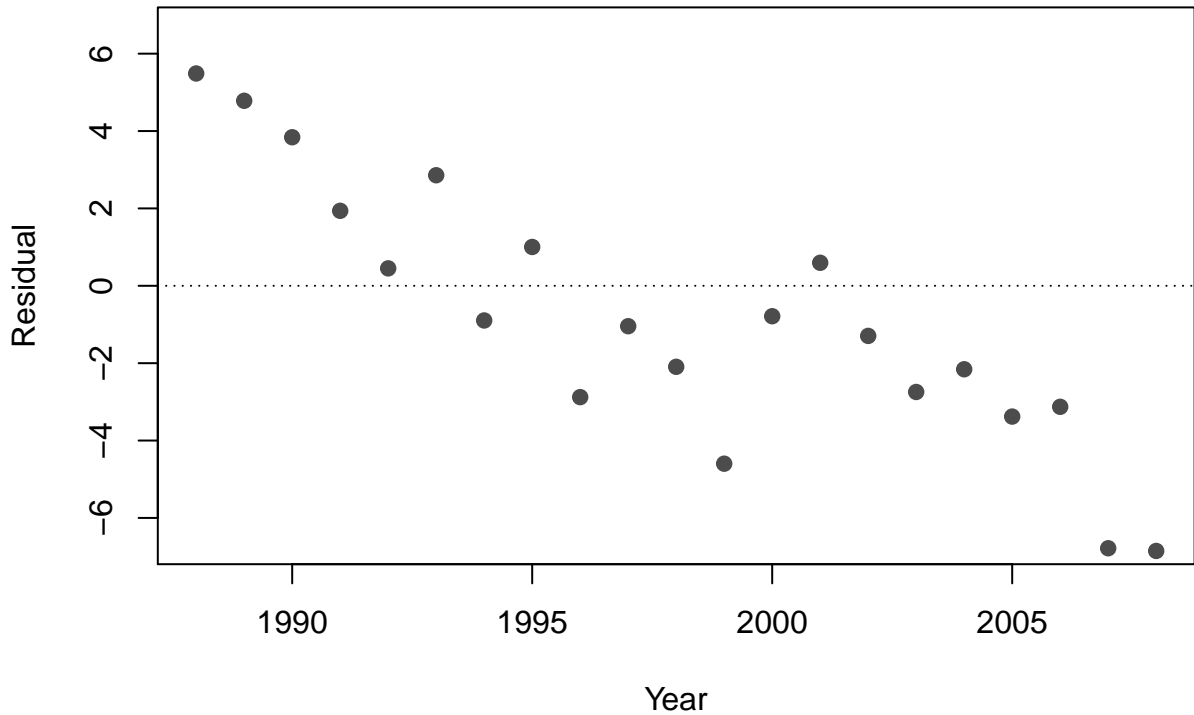


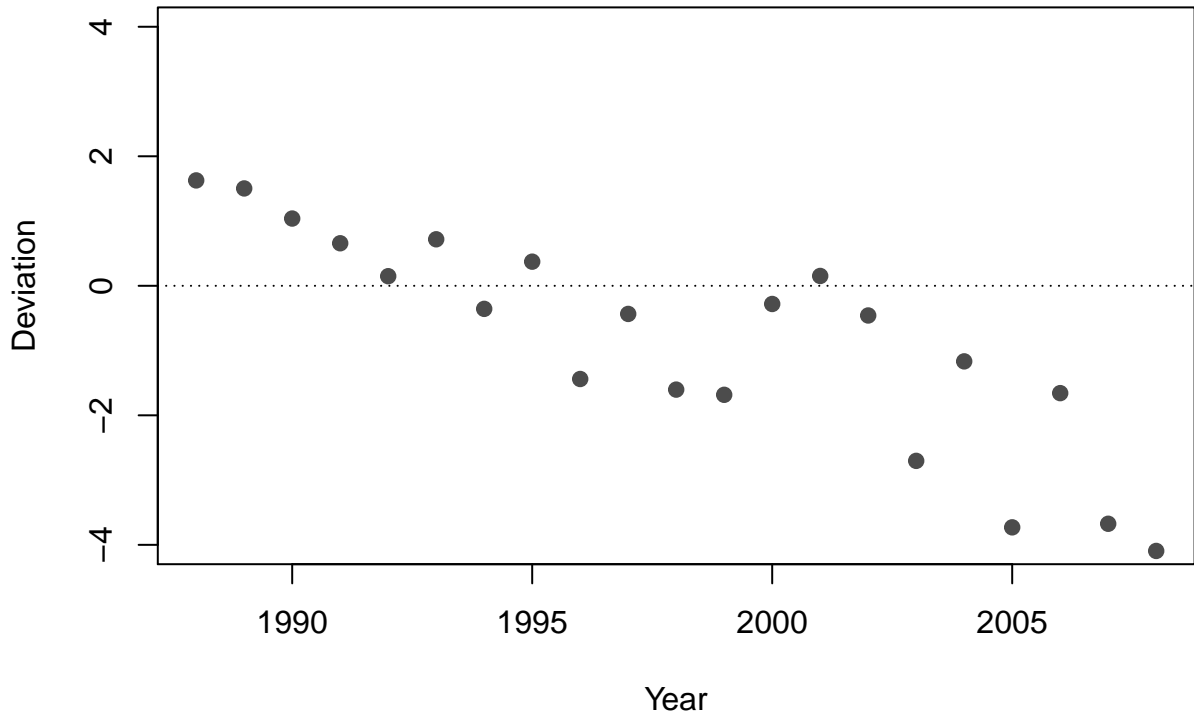


Log expected index



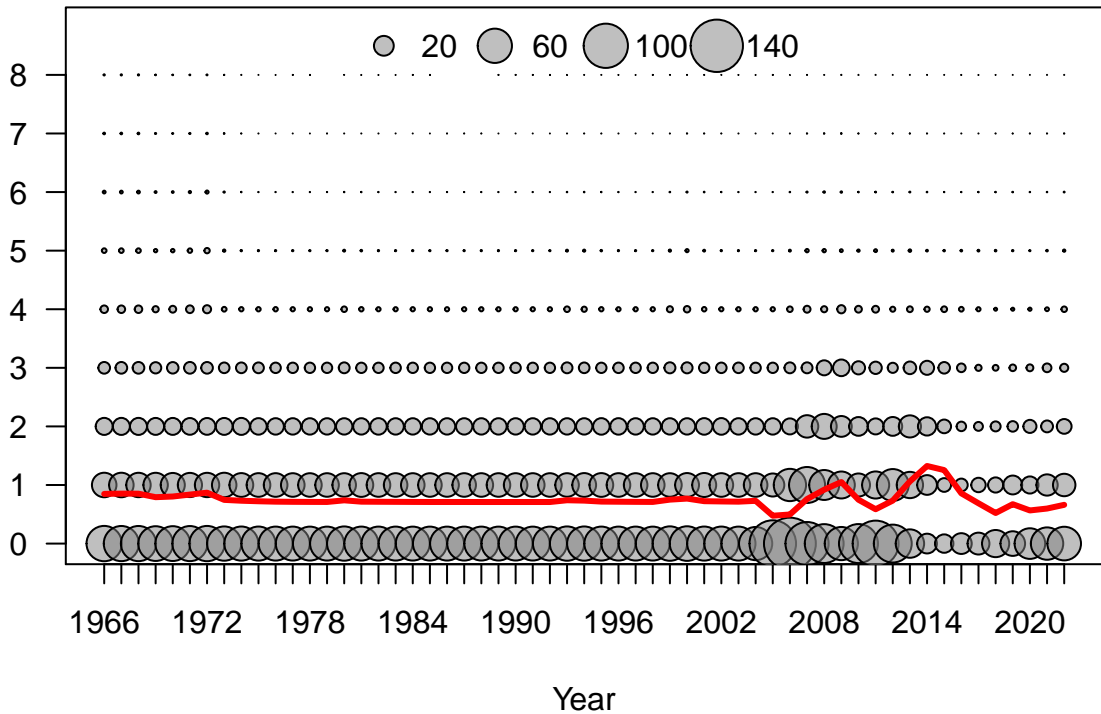




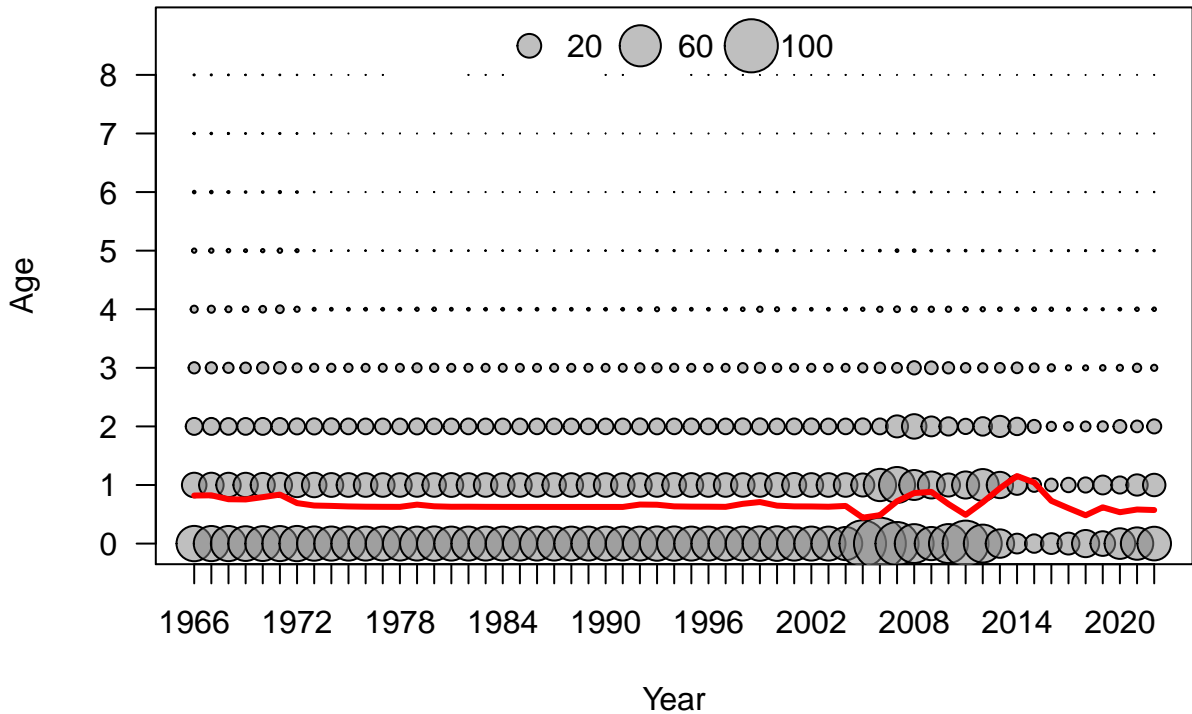


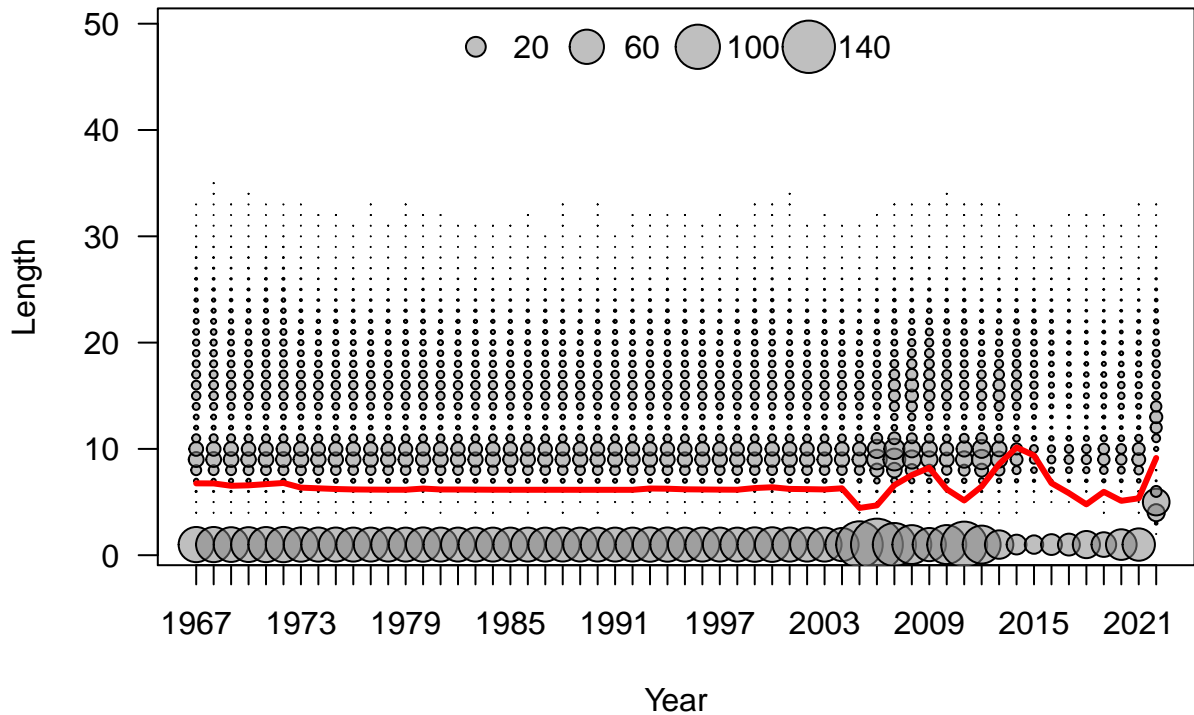


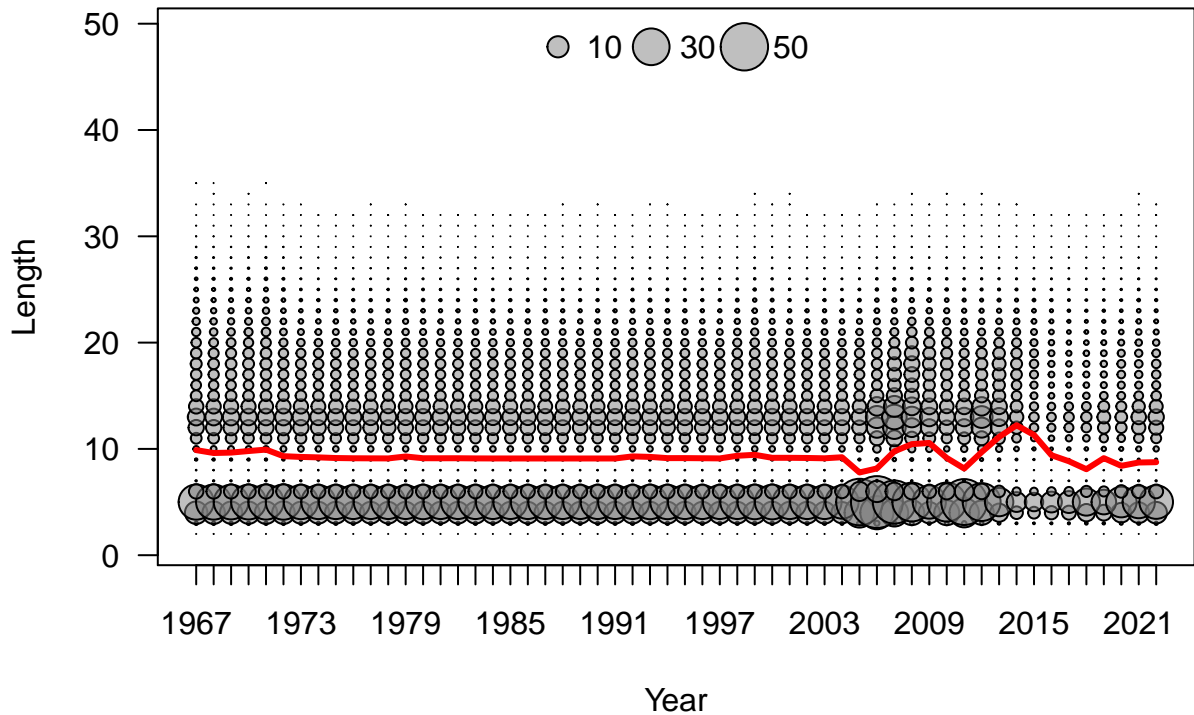
Age

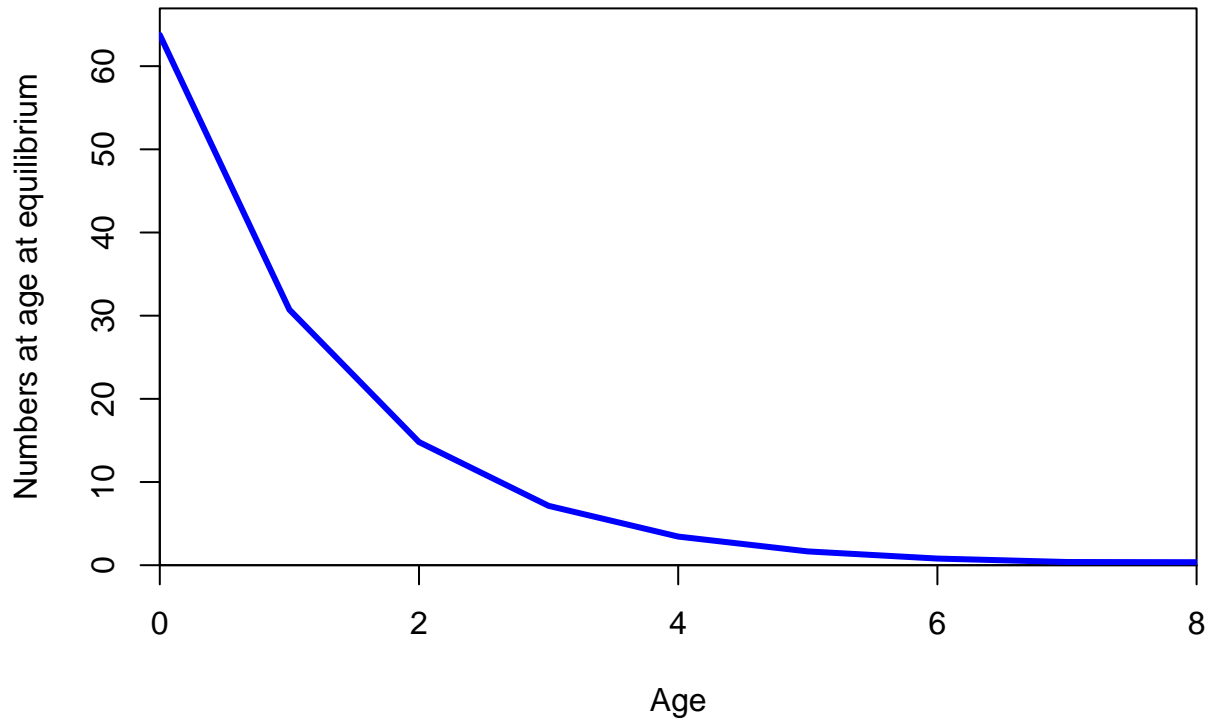






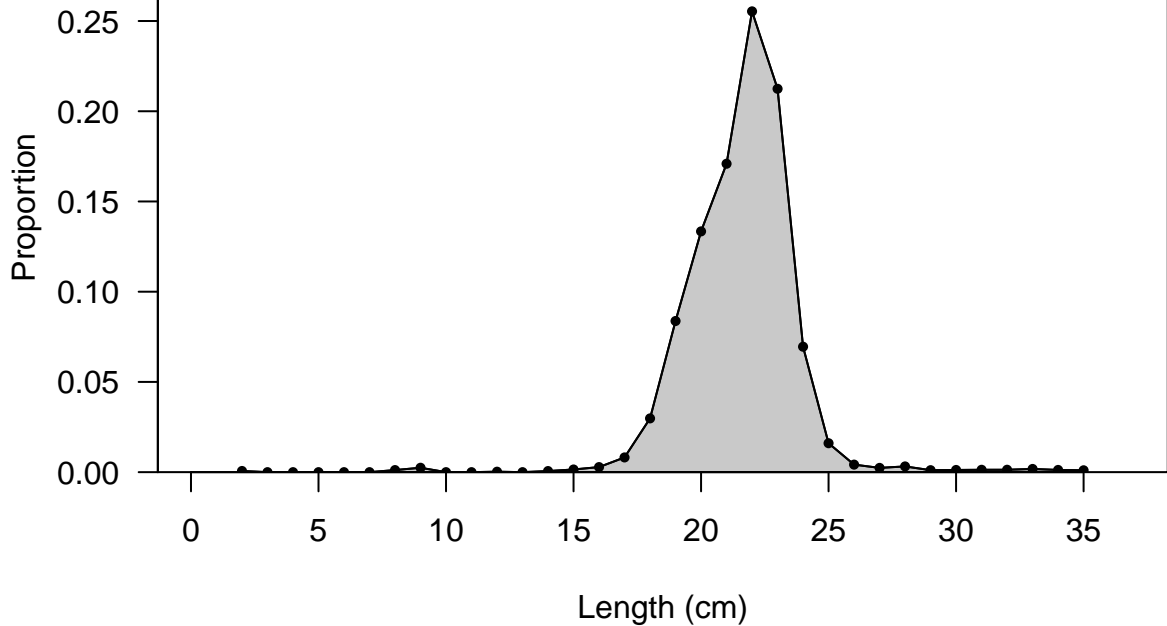


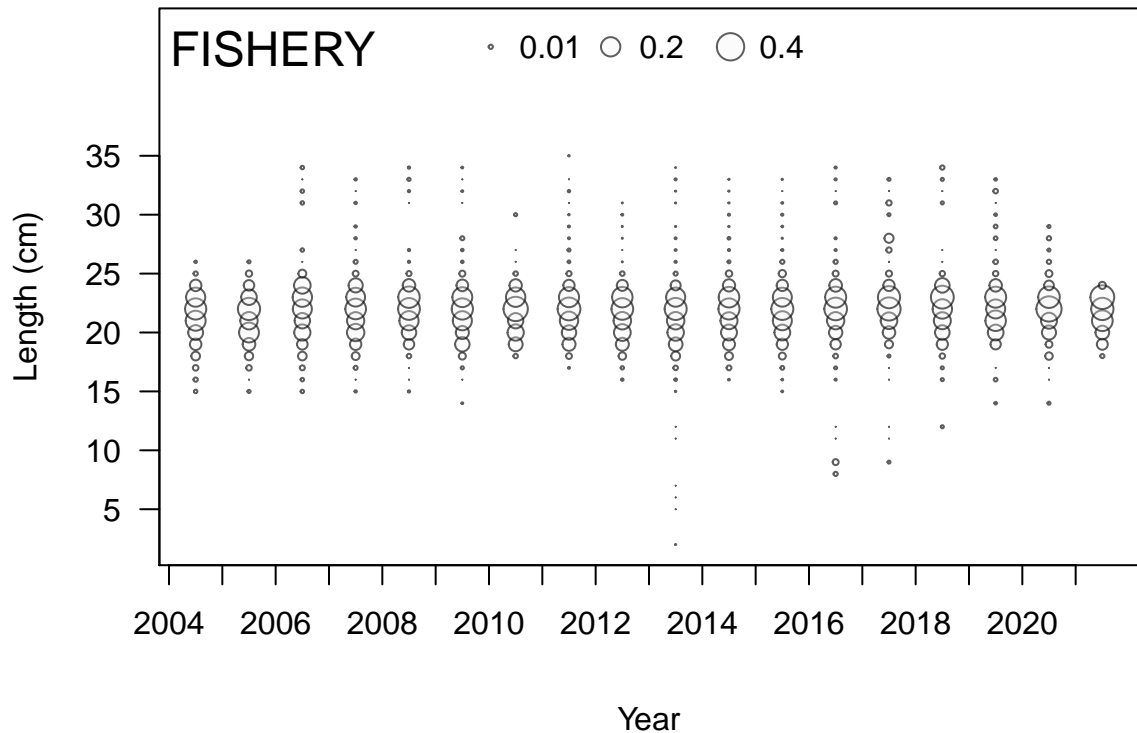


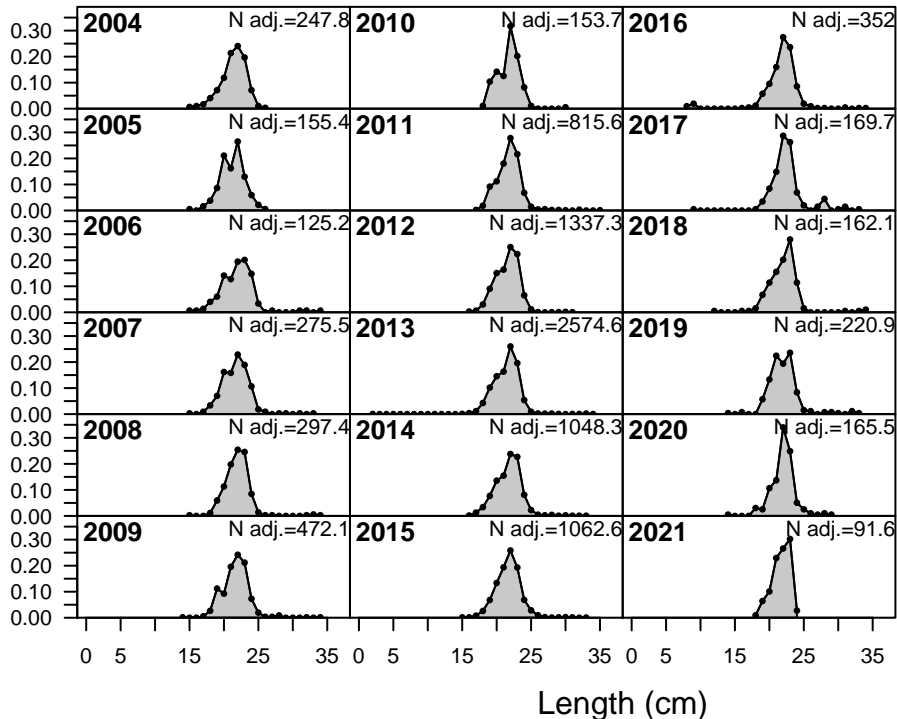


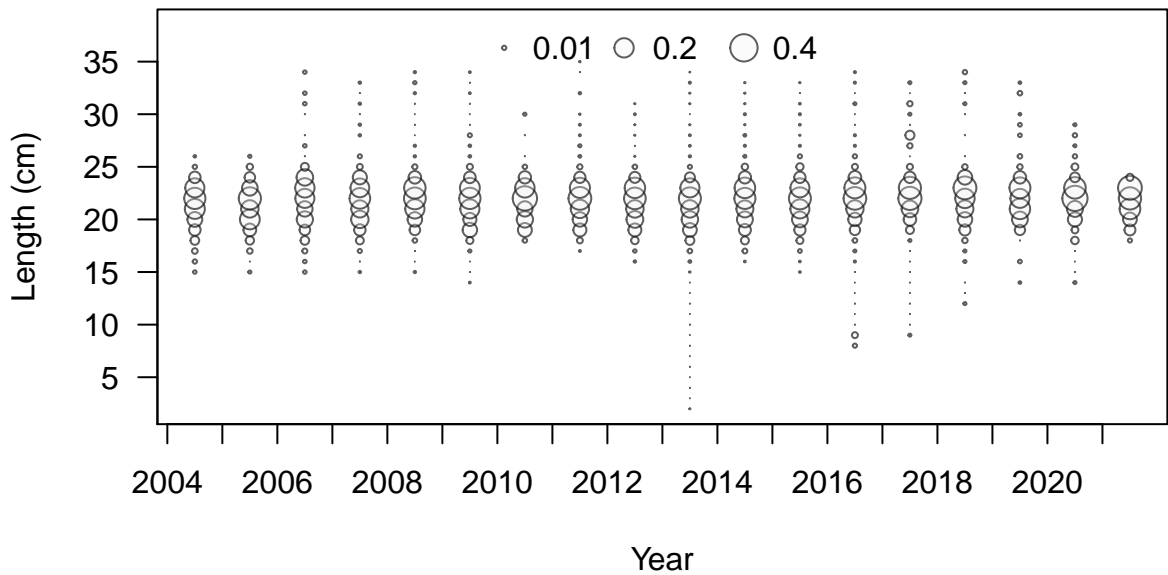
# FISHERY

Sum of N adj.=9727.2



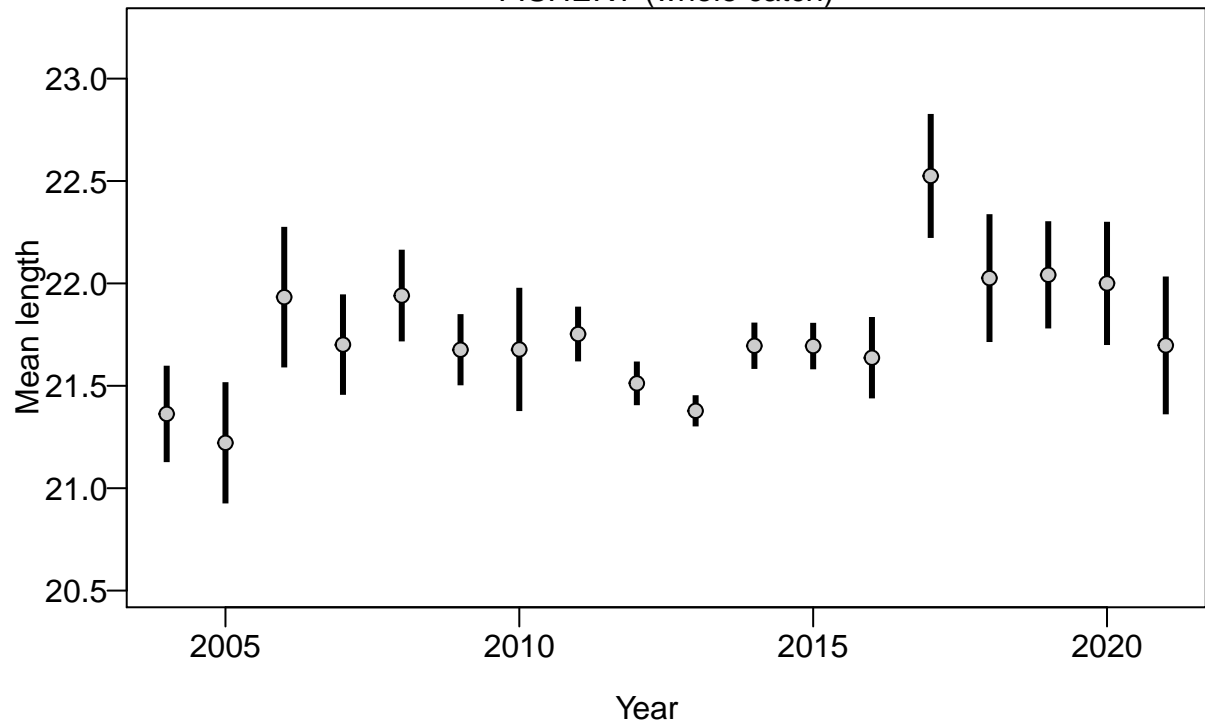


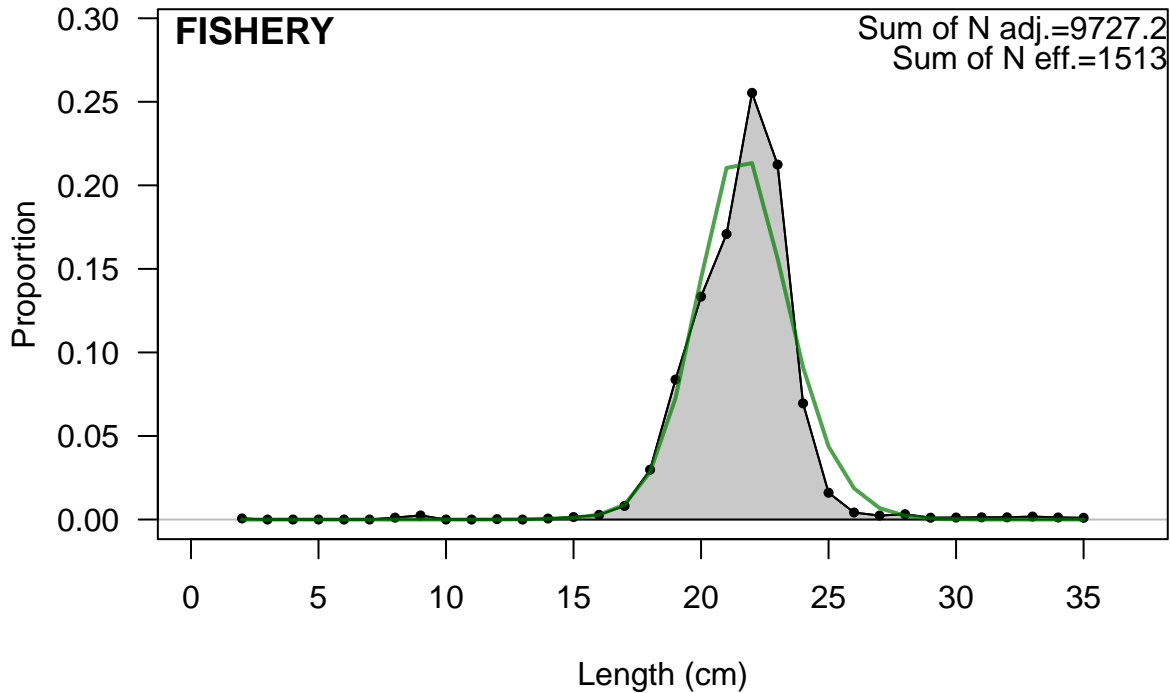


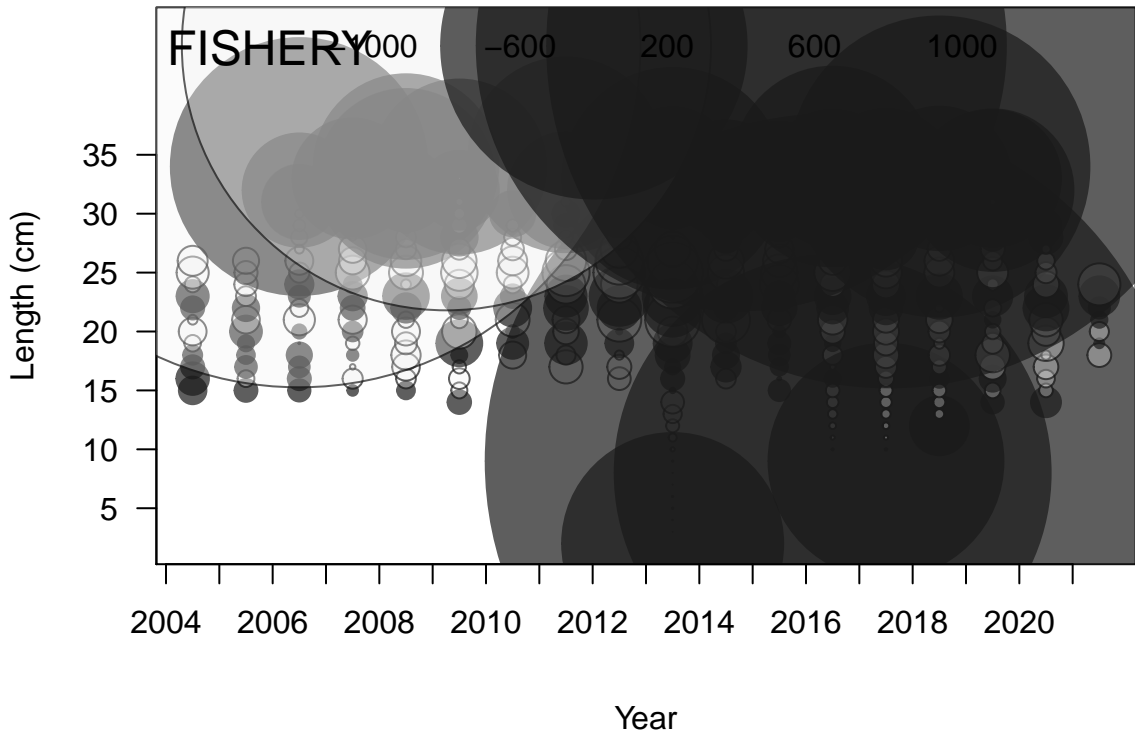


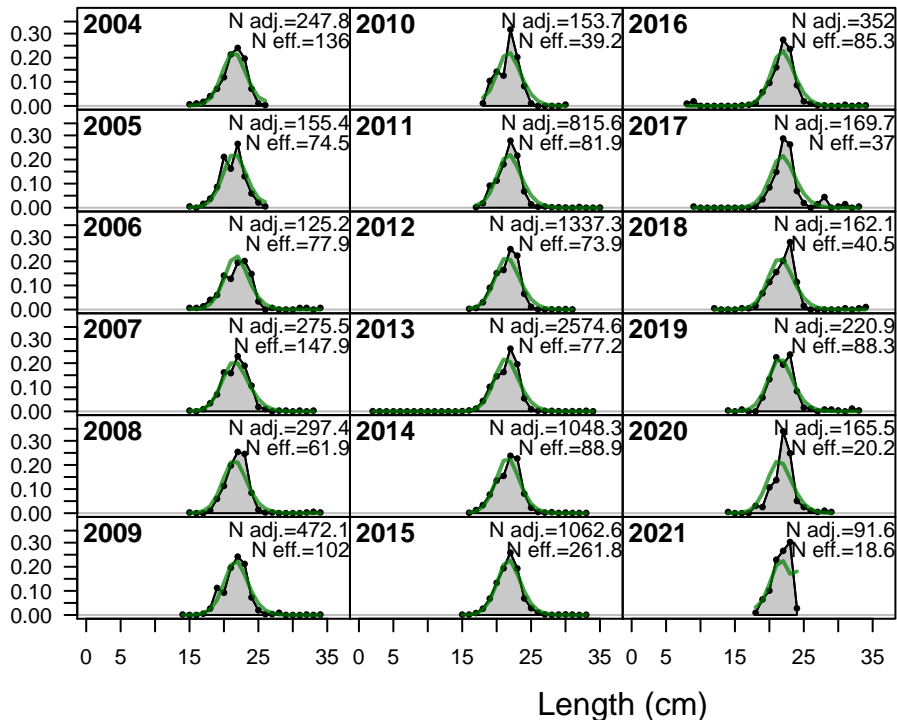


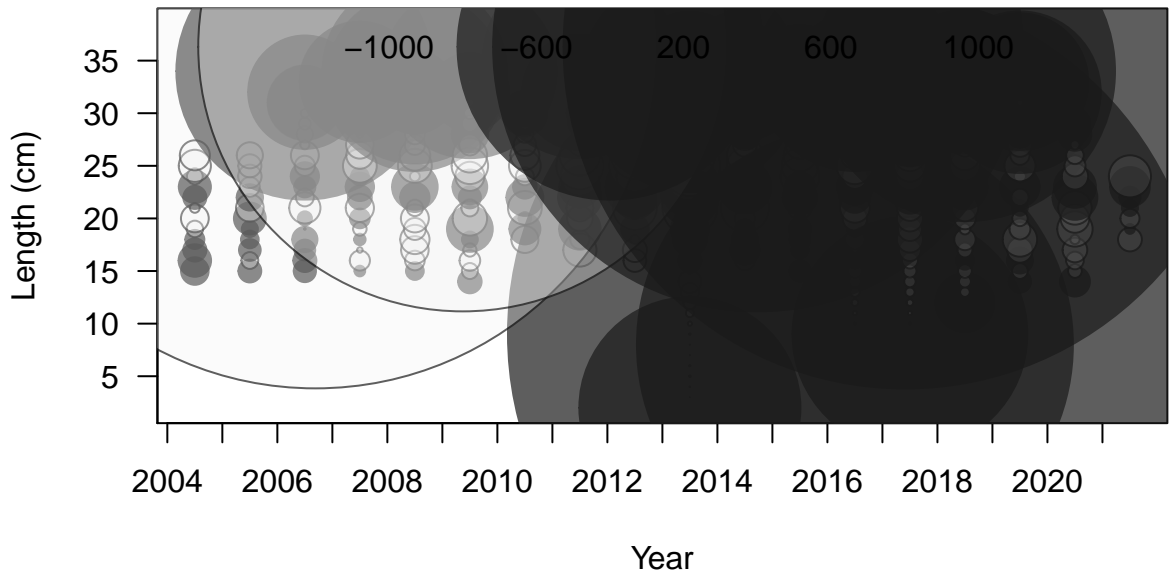
FISHERY (whole catch)



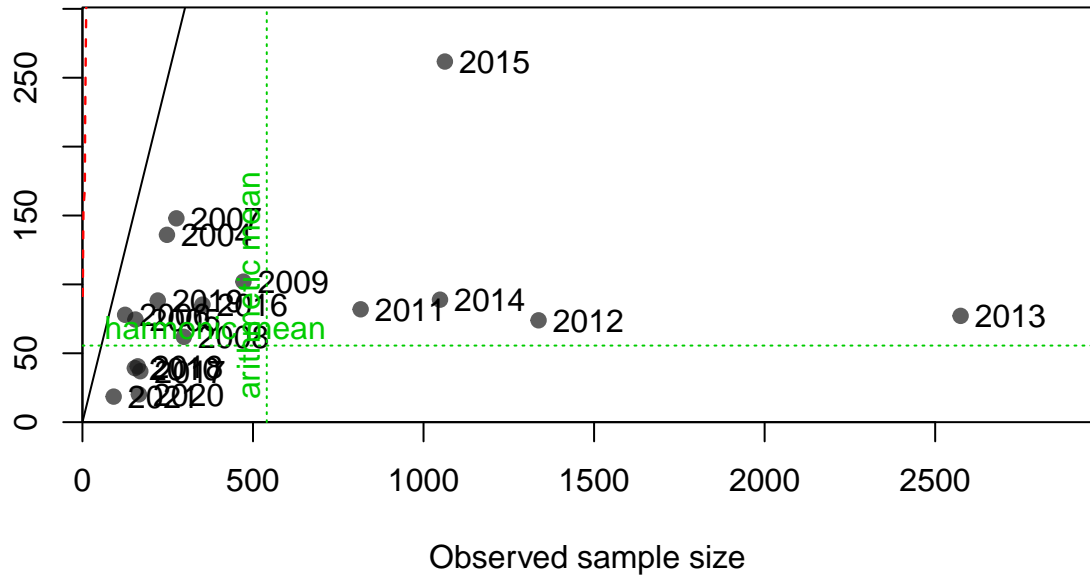




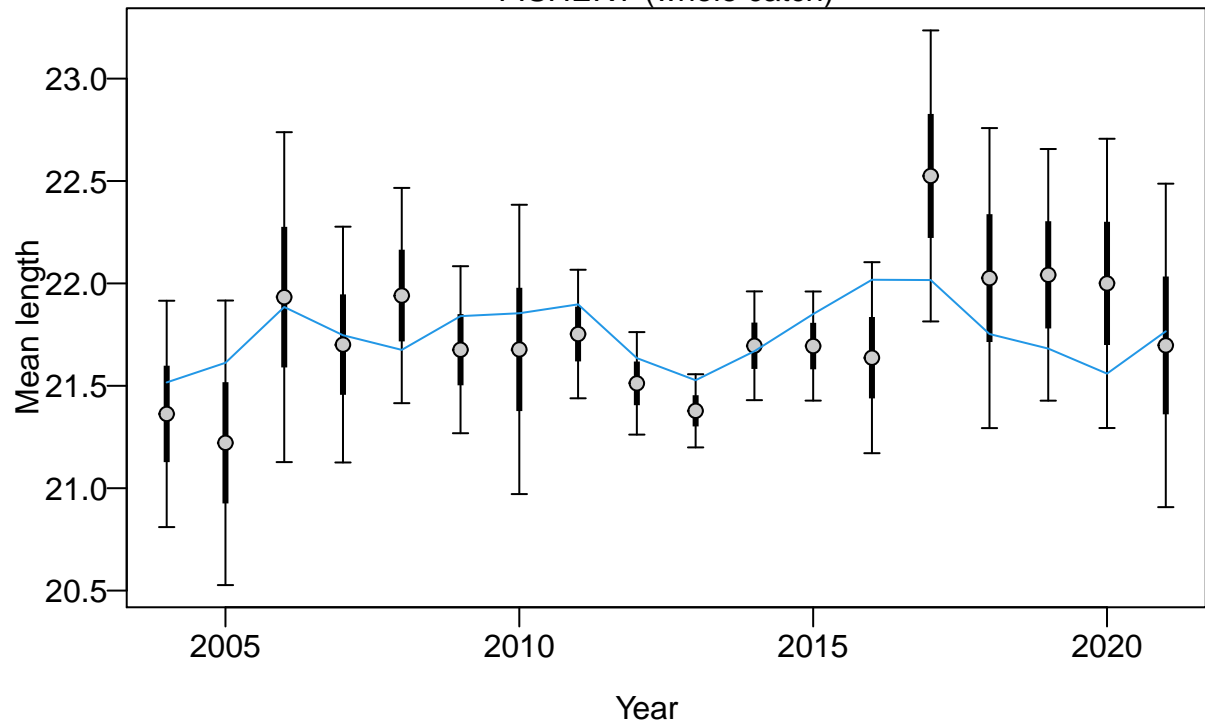


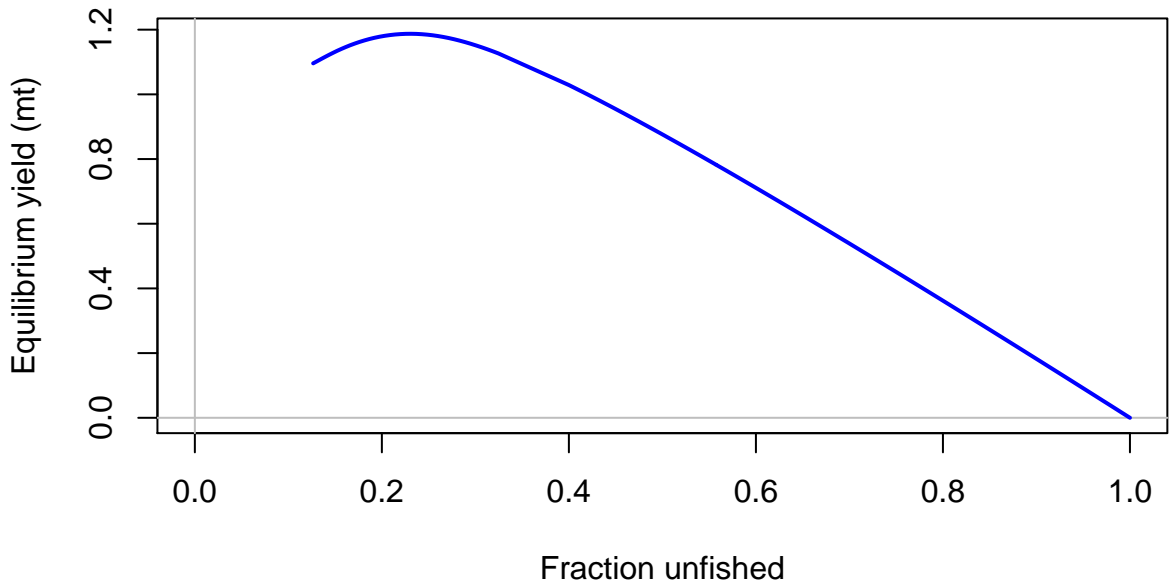


Effective sample size

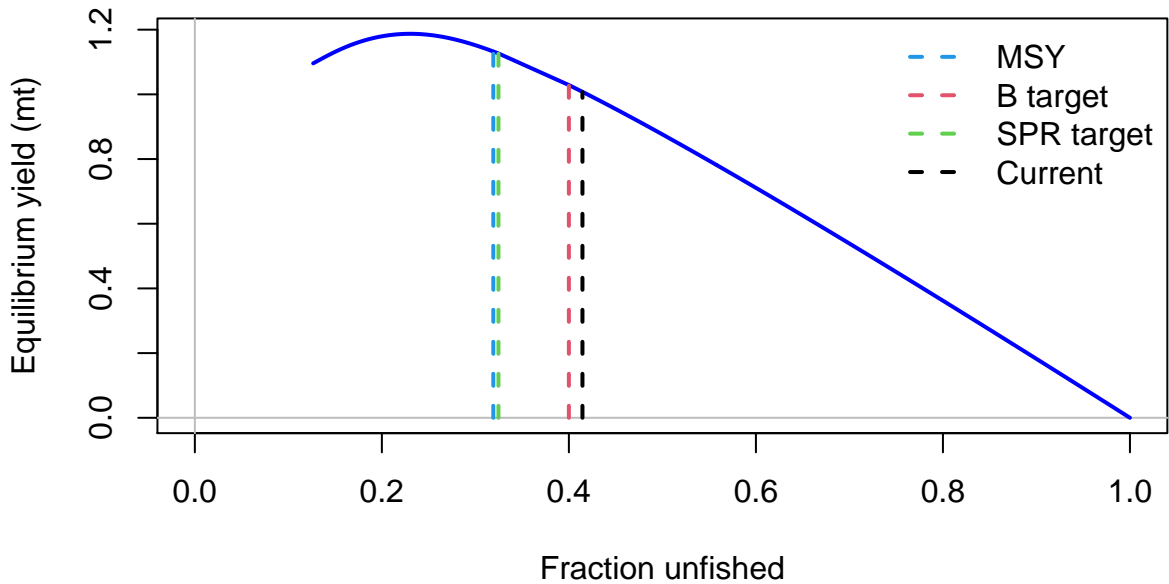


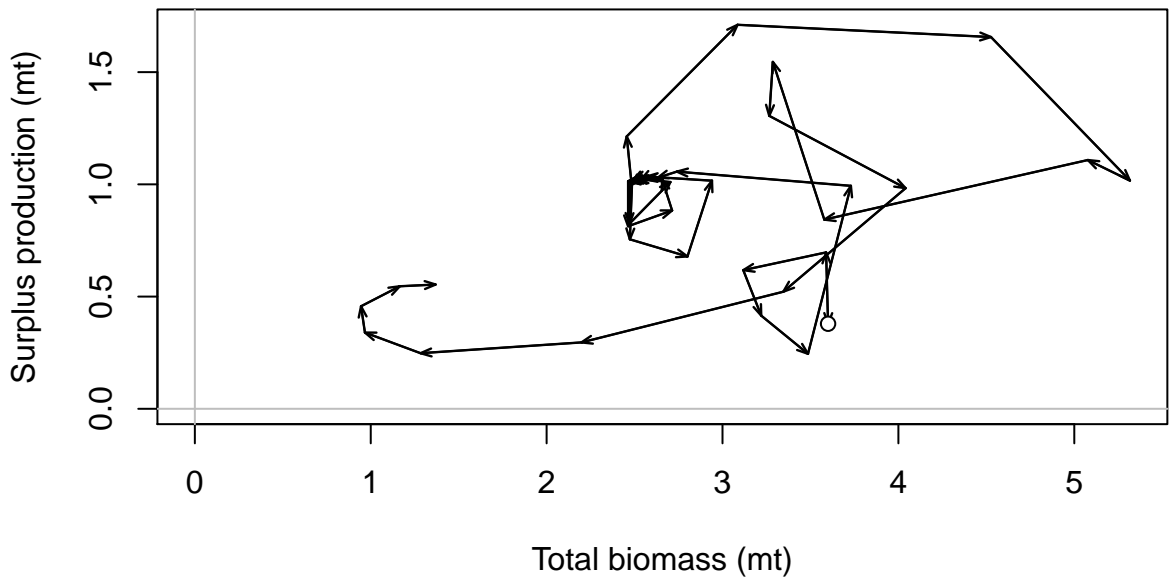
FISHERY (whole catch)

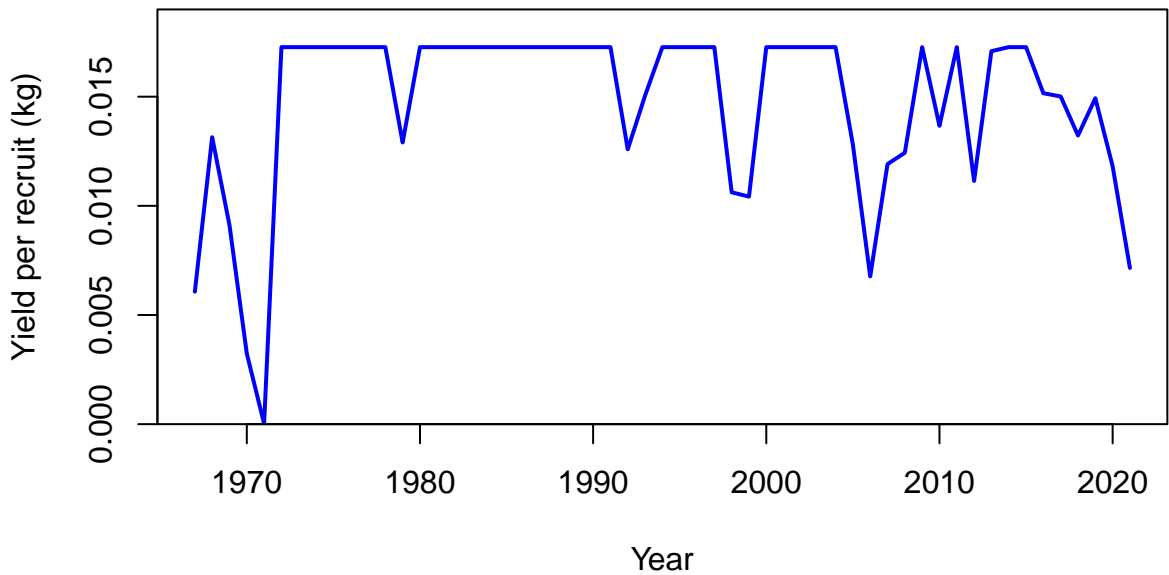




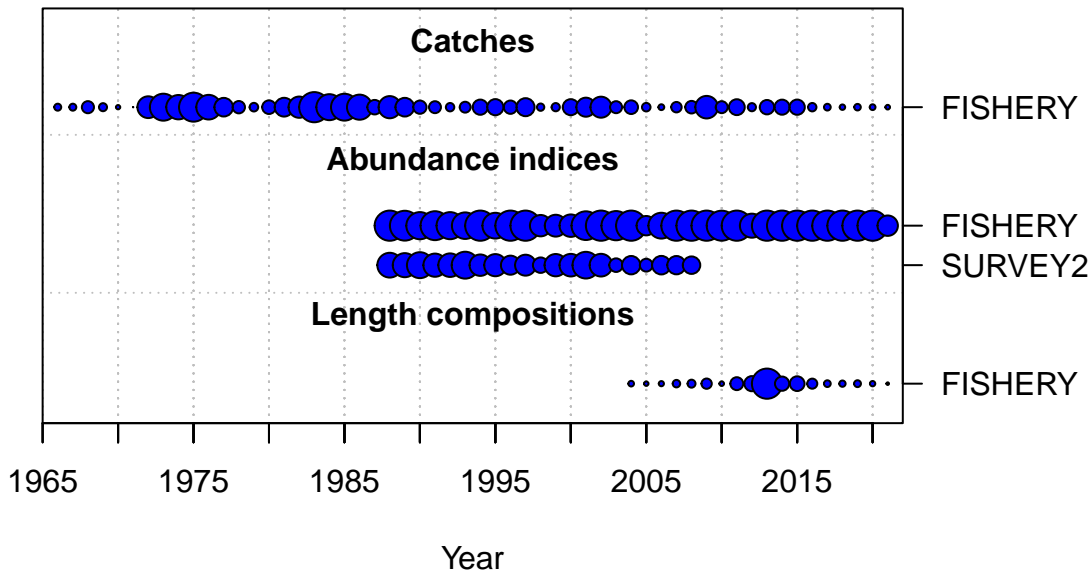




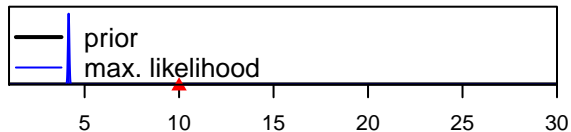




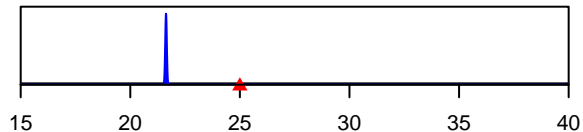




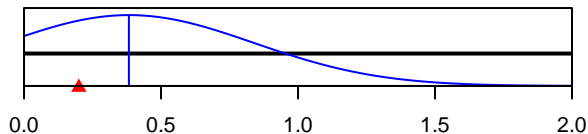
SR\_LN(R0)



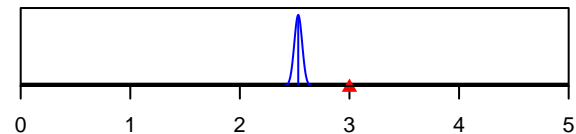
Size\_inflection\_FISHERY(1)



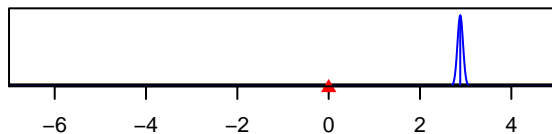
InitF\_seas\_1\_flt\_1FISHERY



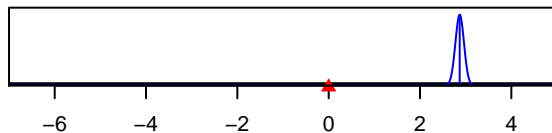
Size\_95%width\_FISHERY(1)



LnQ\_base\_FISHERY(1)



LnQ\_base\_SURVEY2(2)



Parameter value