

Plots created using the 'r4ss' package in R

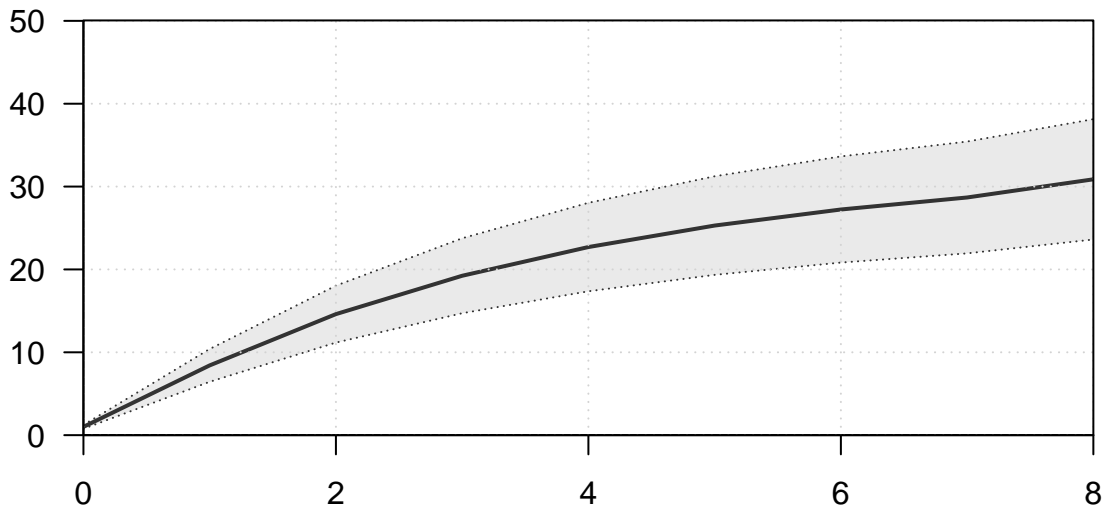
Stock Synthesis version: 3.30.19.0

StartTime: Sat Jul 09 09:27:39 2022

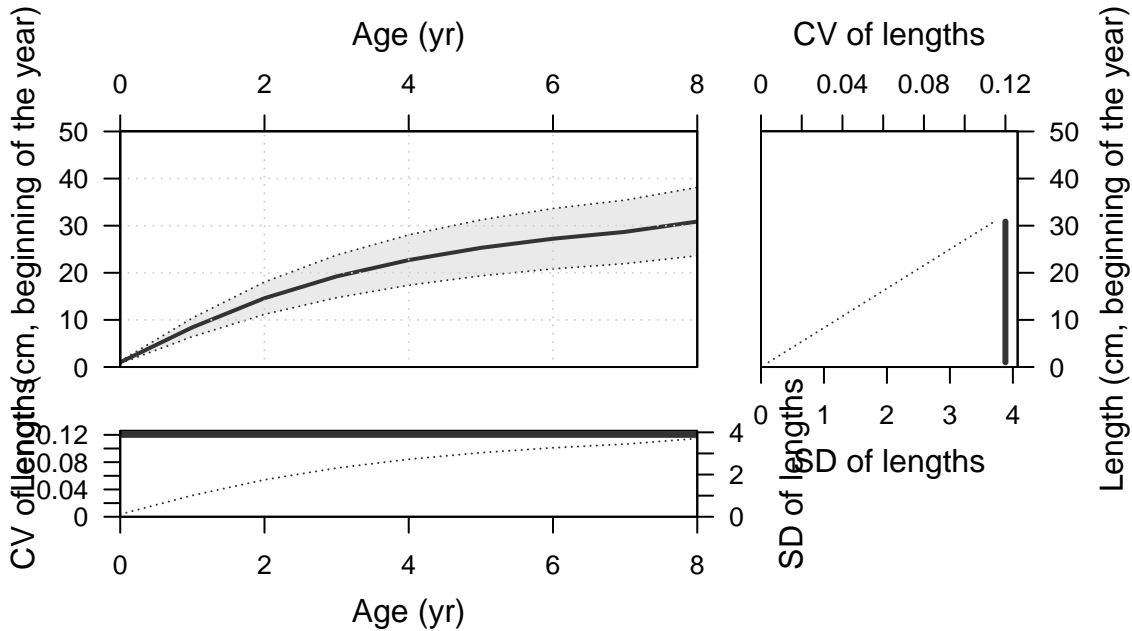
Data\_File: data.ss

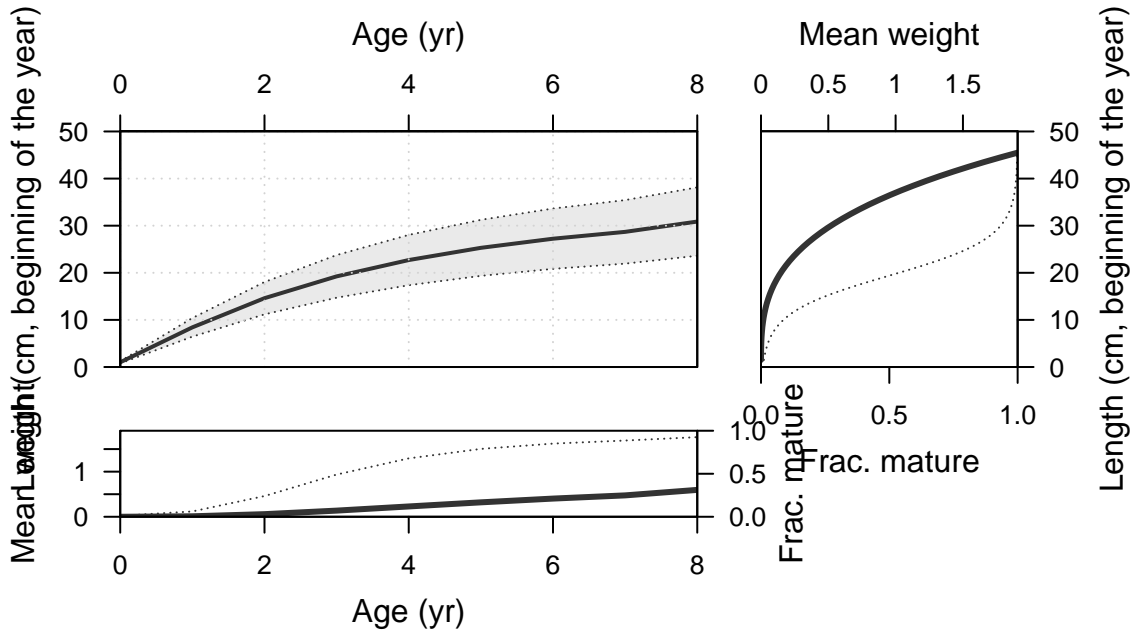
Control\_File: control.ss

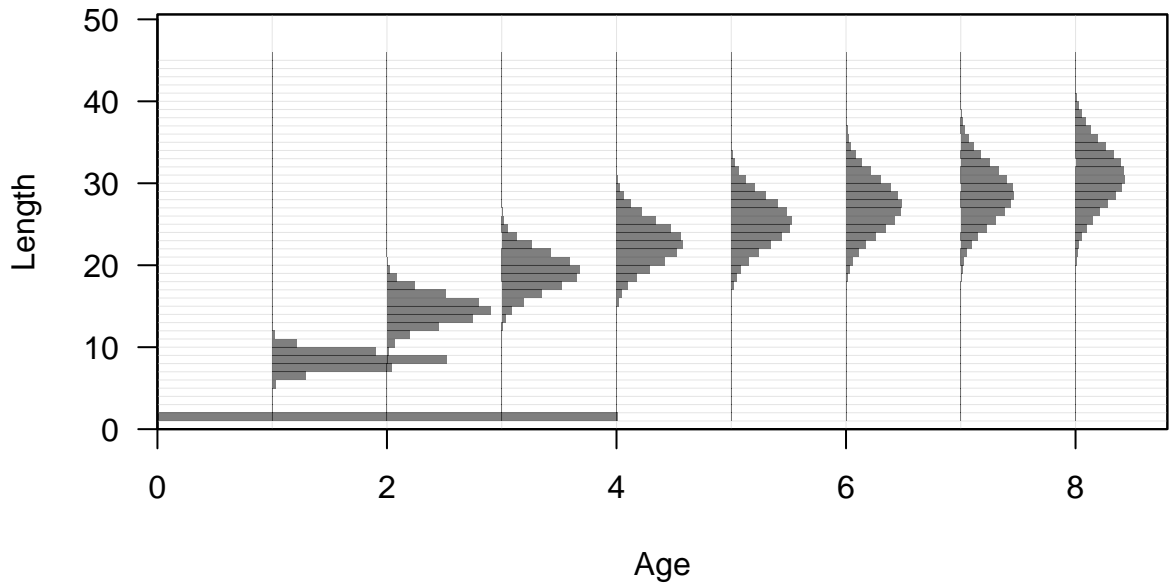
Length (cm, beginning of the year)

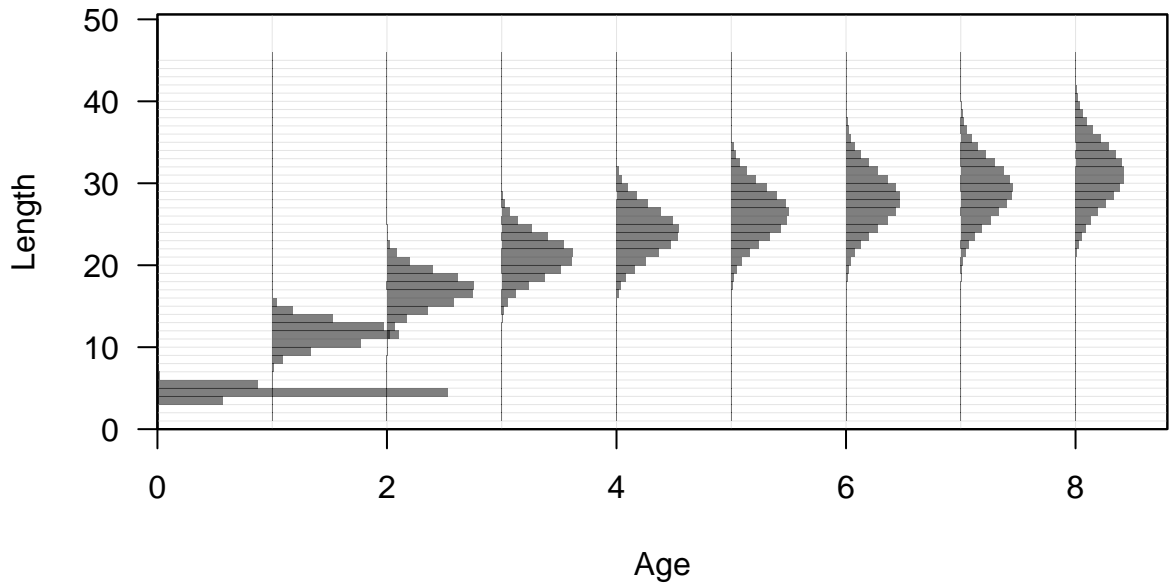


Age (yr)

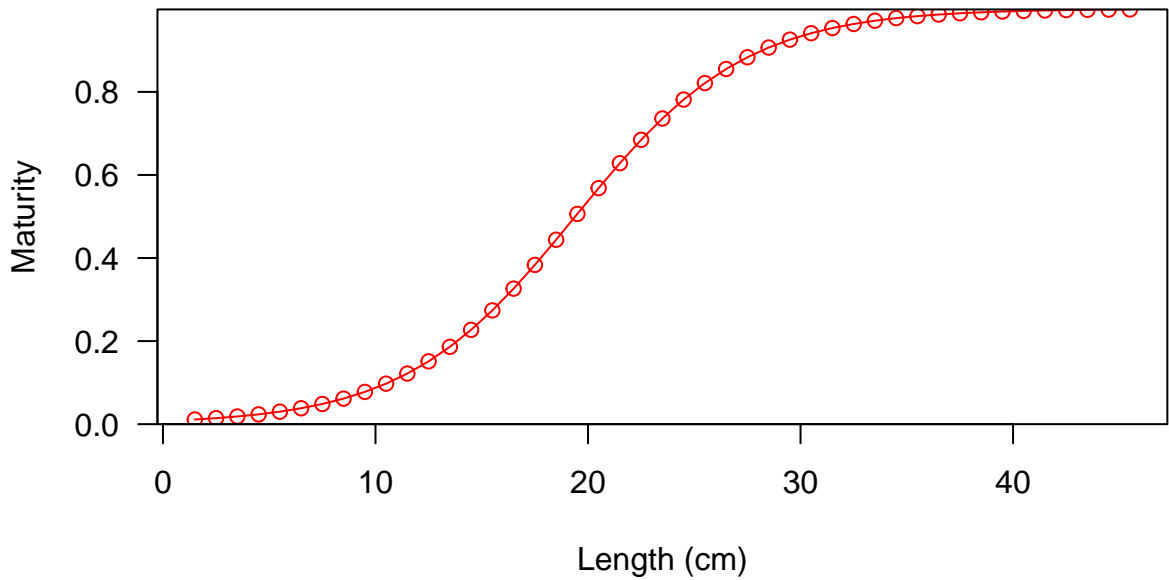






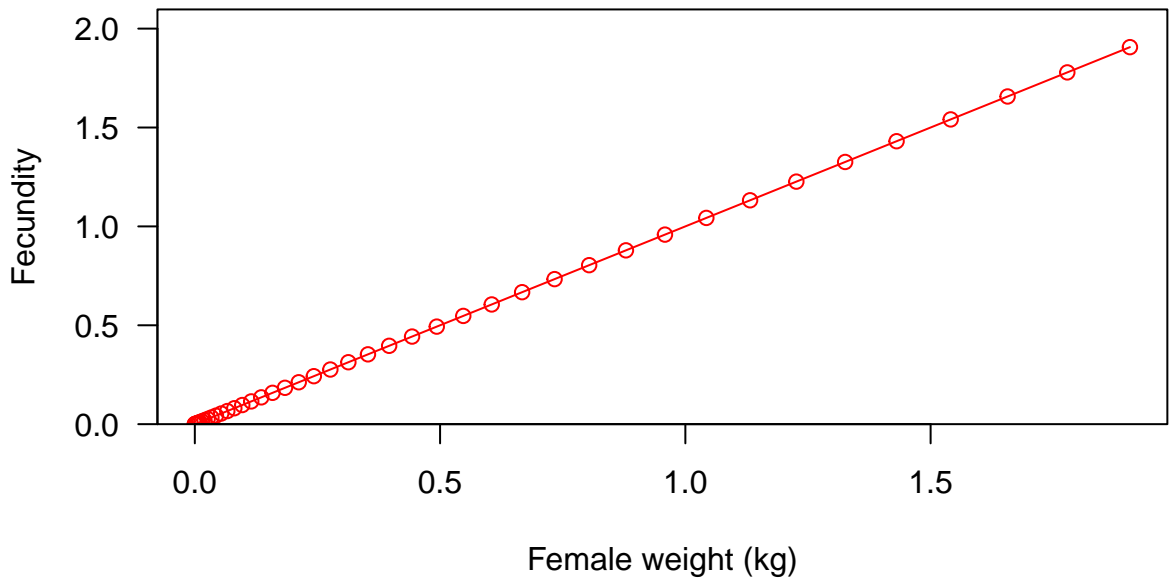




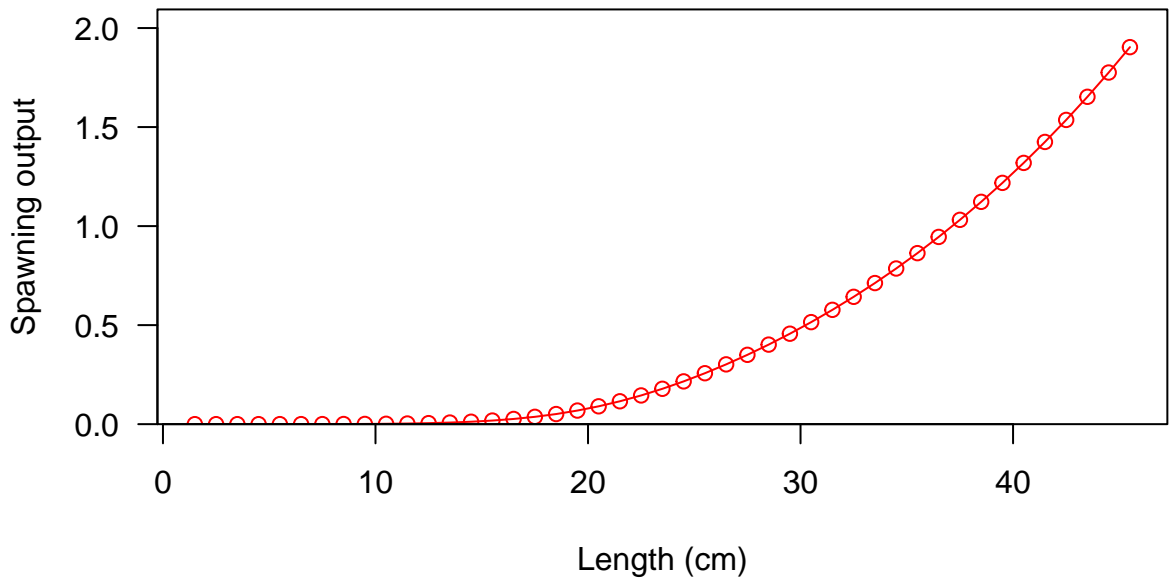


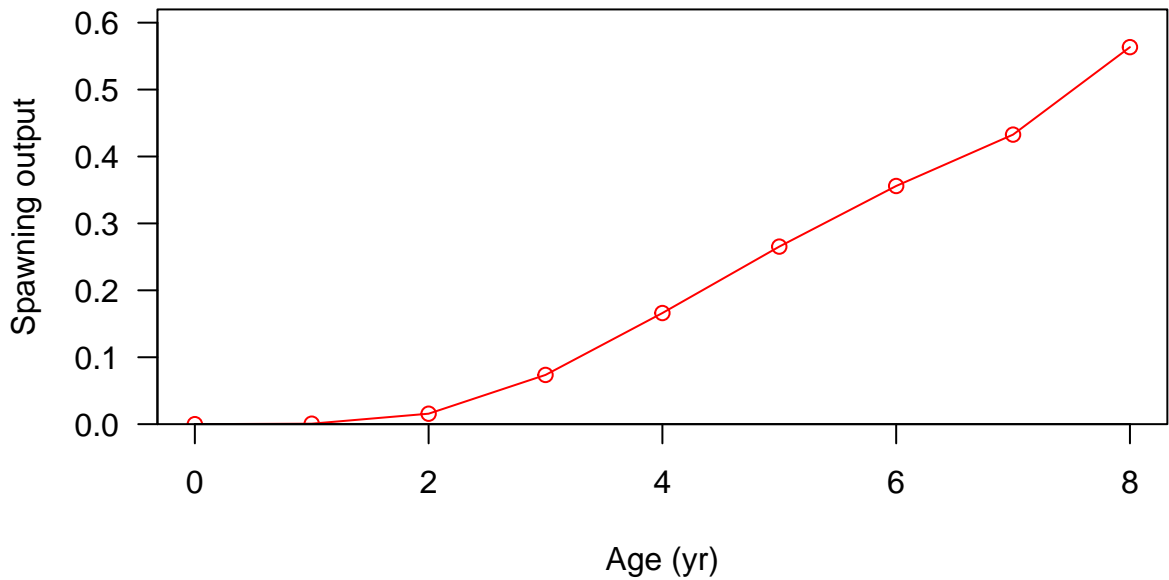




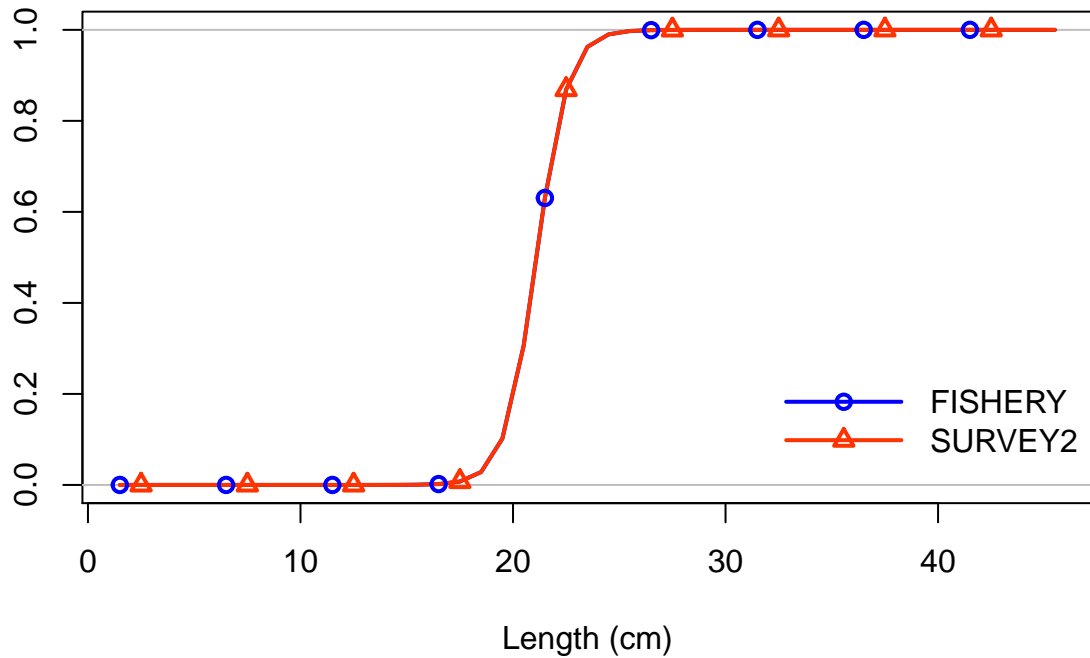




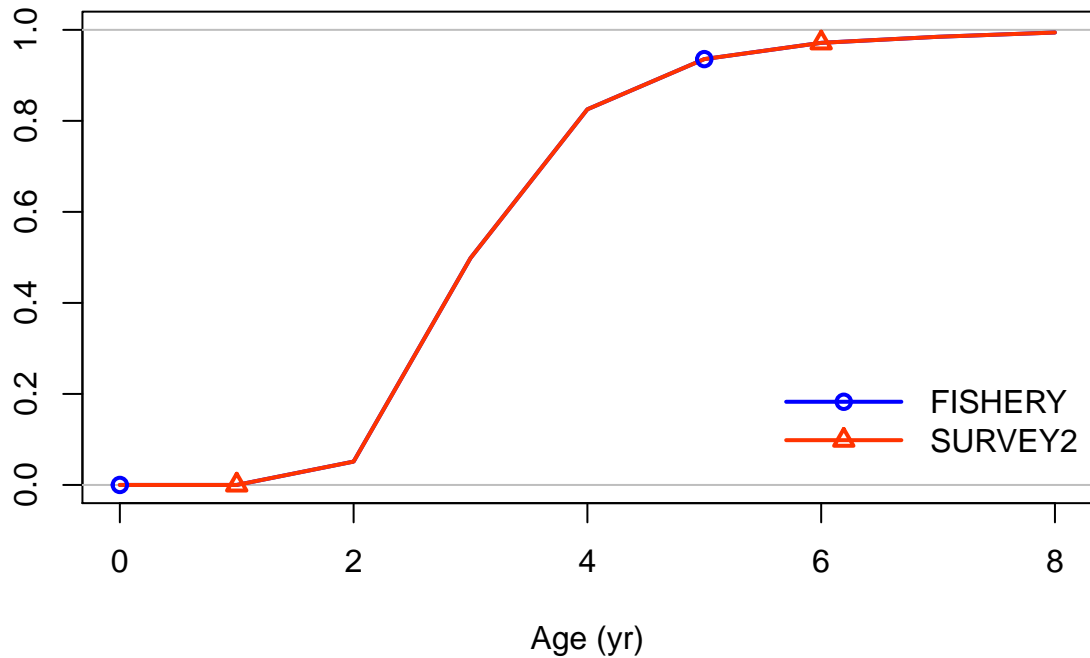




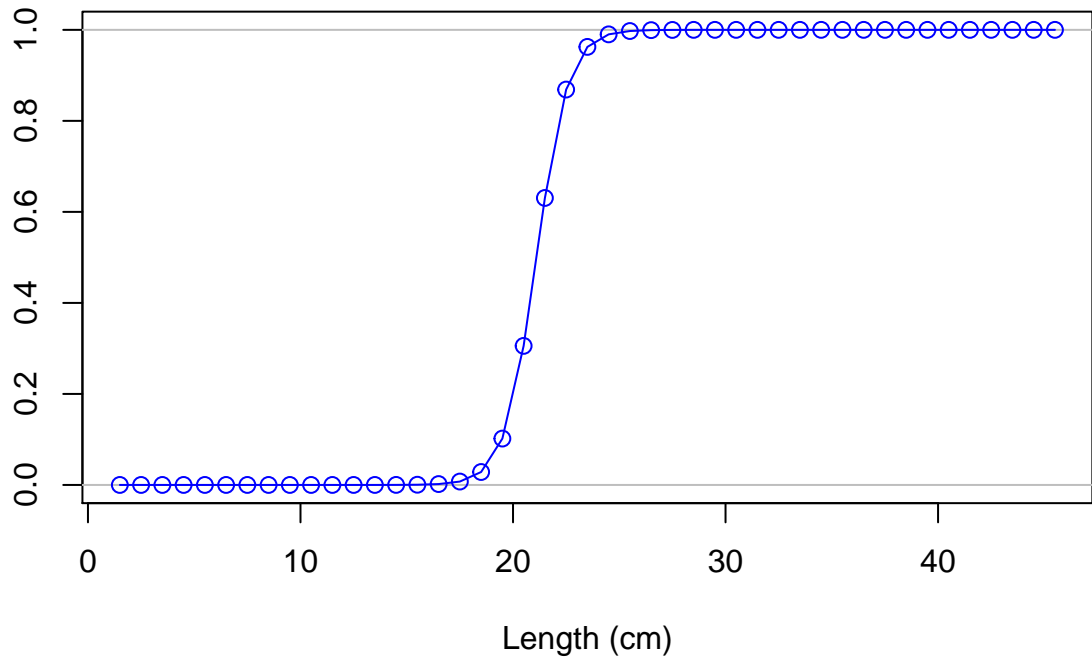
Selectivity



Selectivity

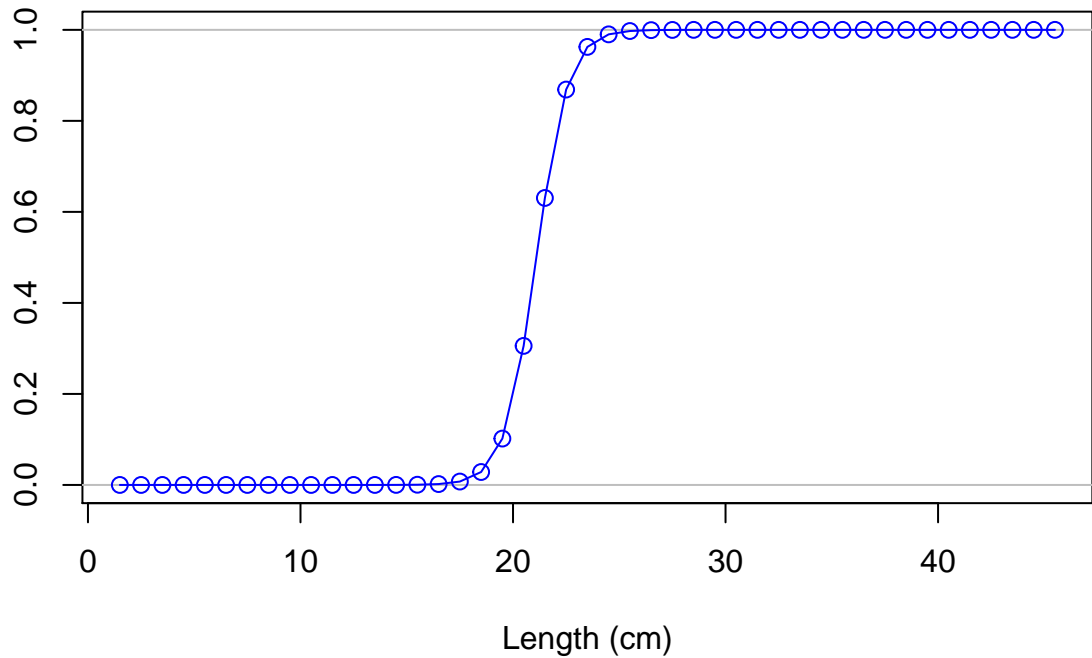


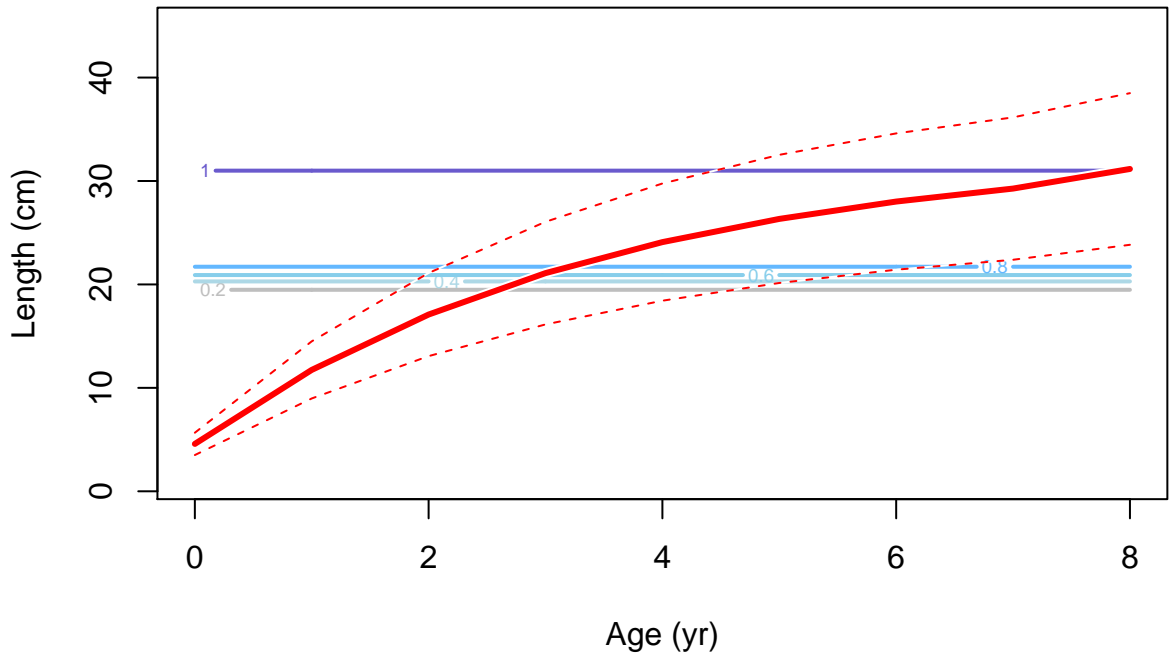
Selectivity

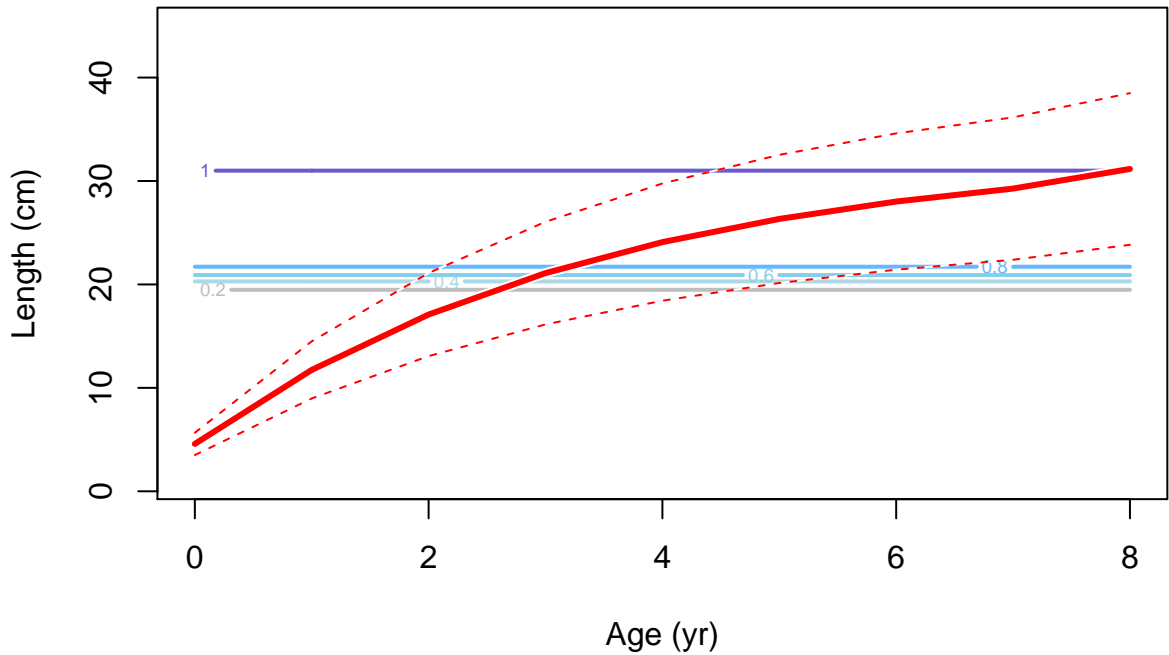




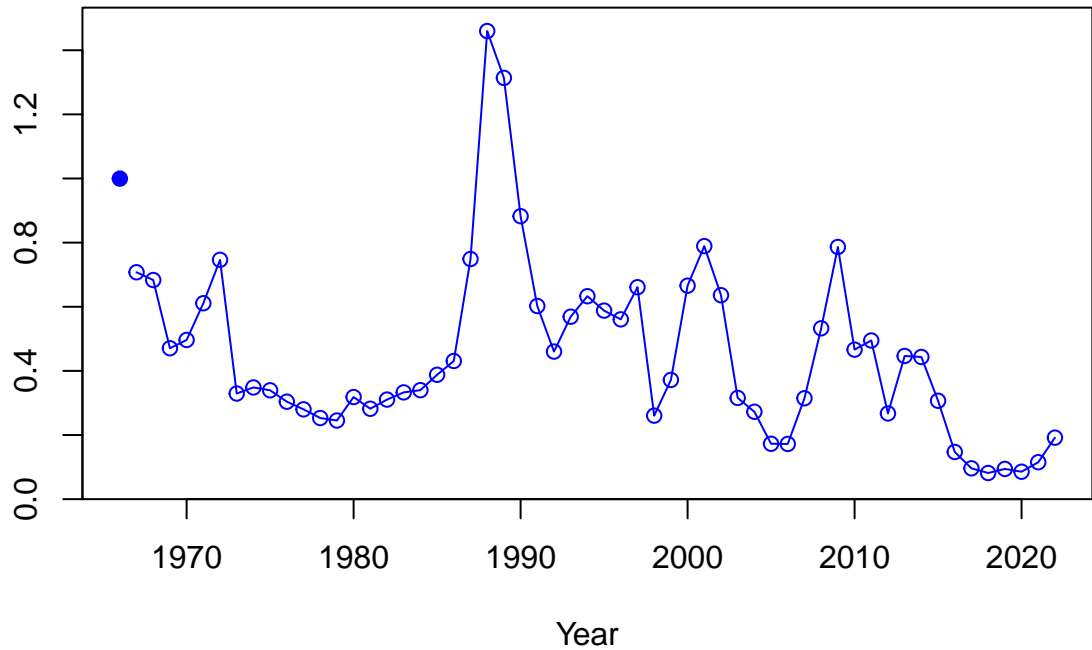
Selectivity



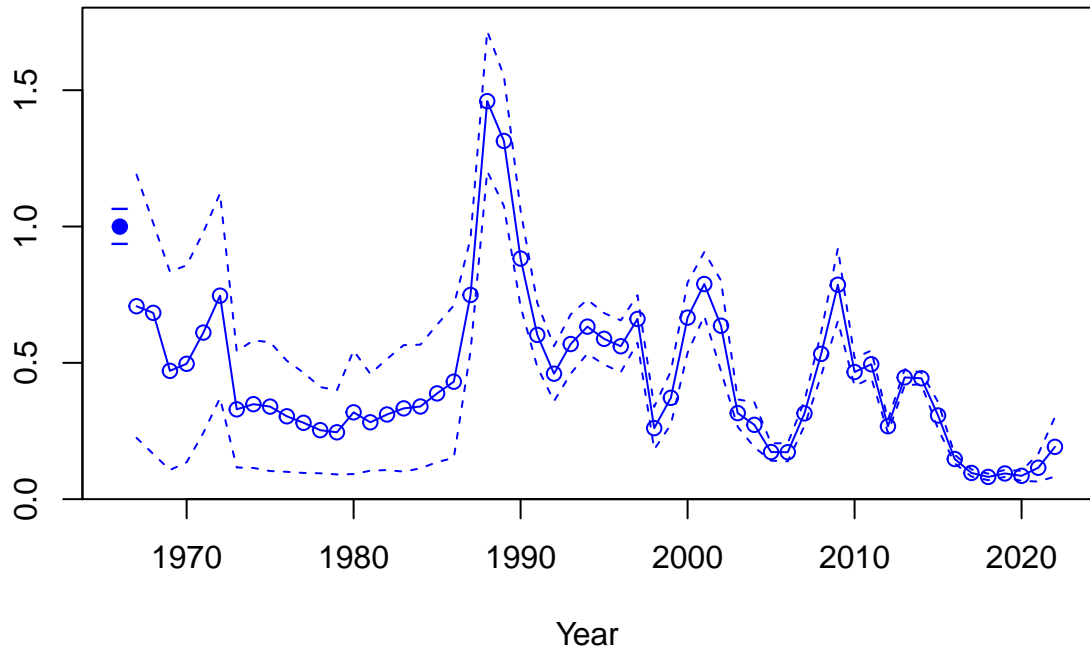




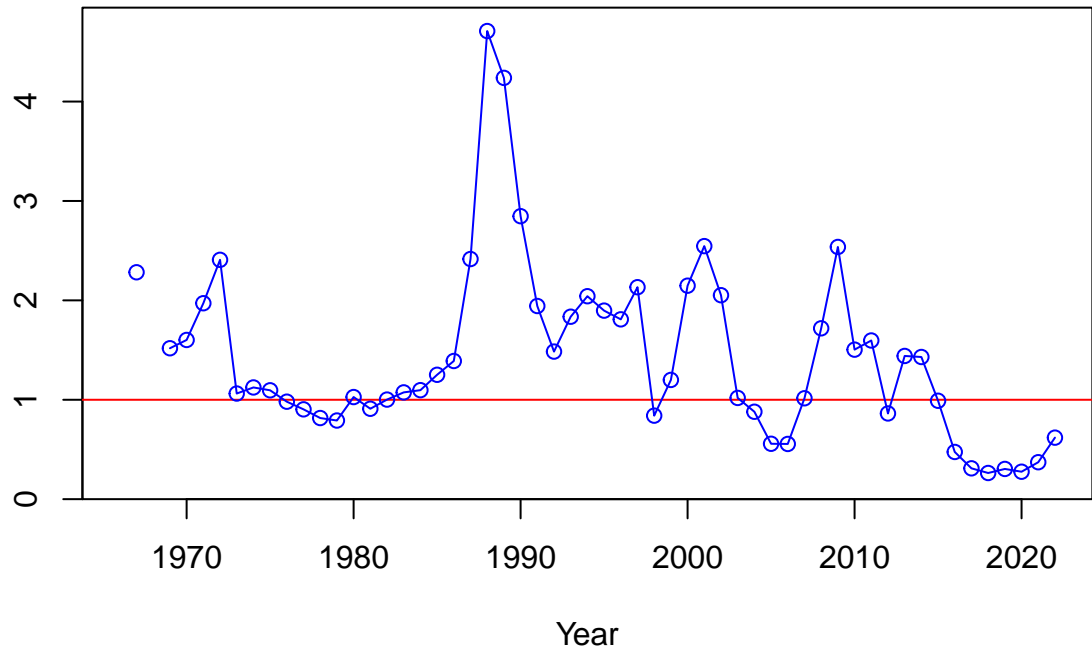
Spawning biomass (mt)



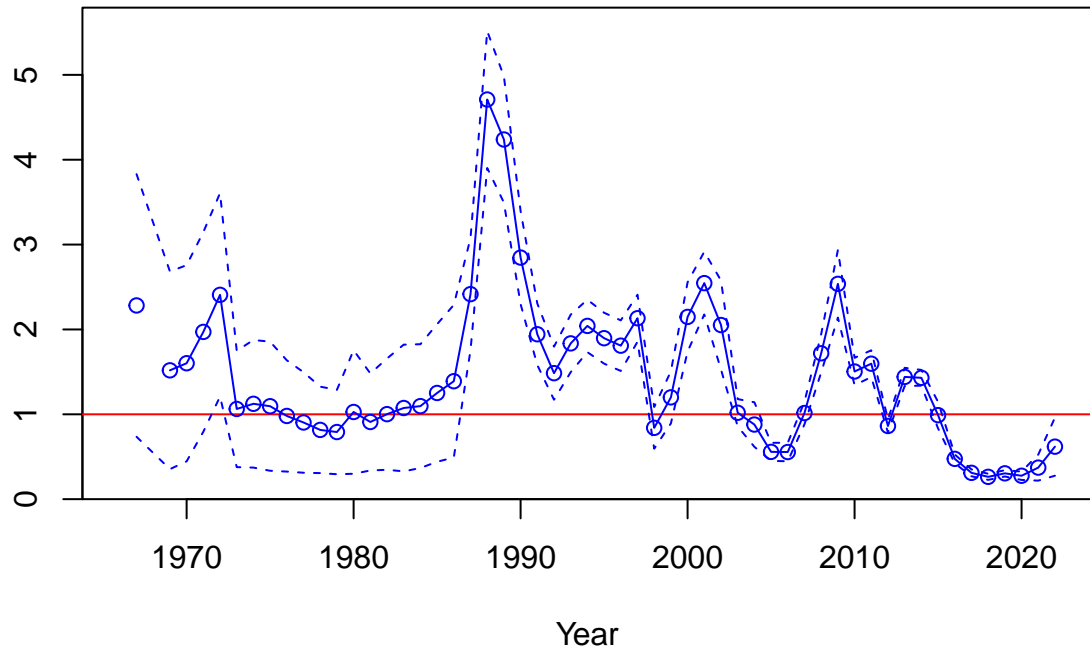
Spawning biomass (mt)

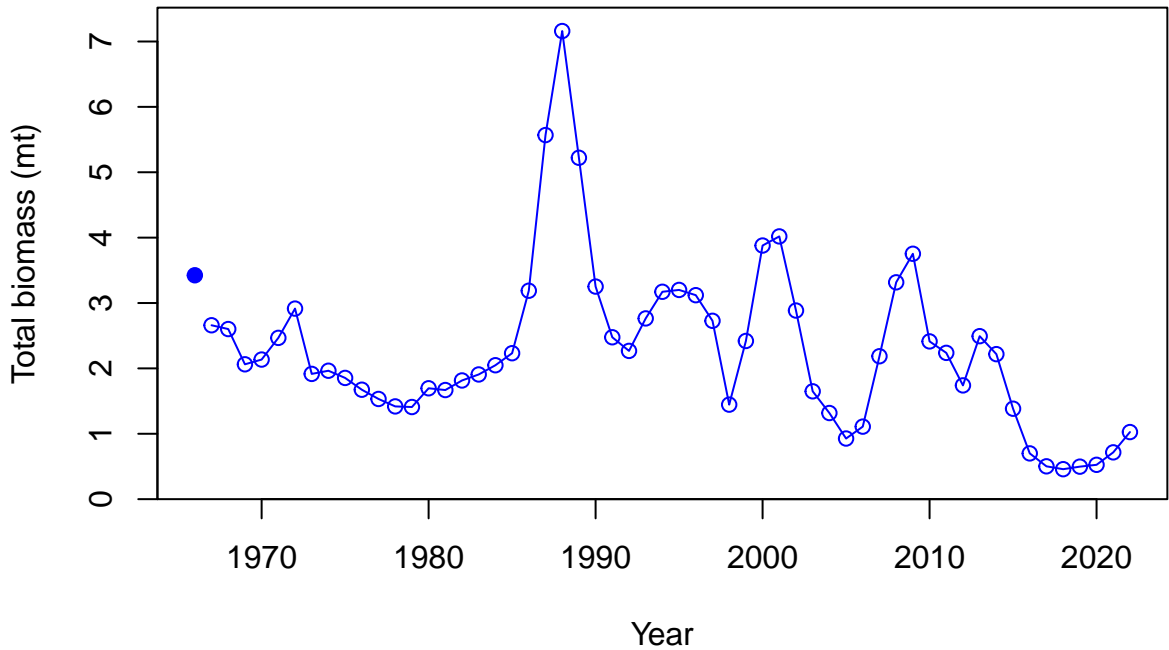


Relative spawning biomass:  $B/B_{MSY}$



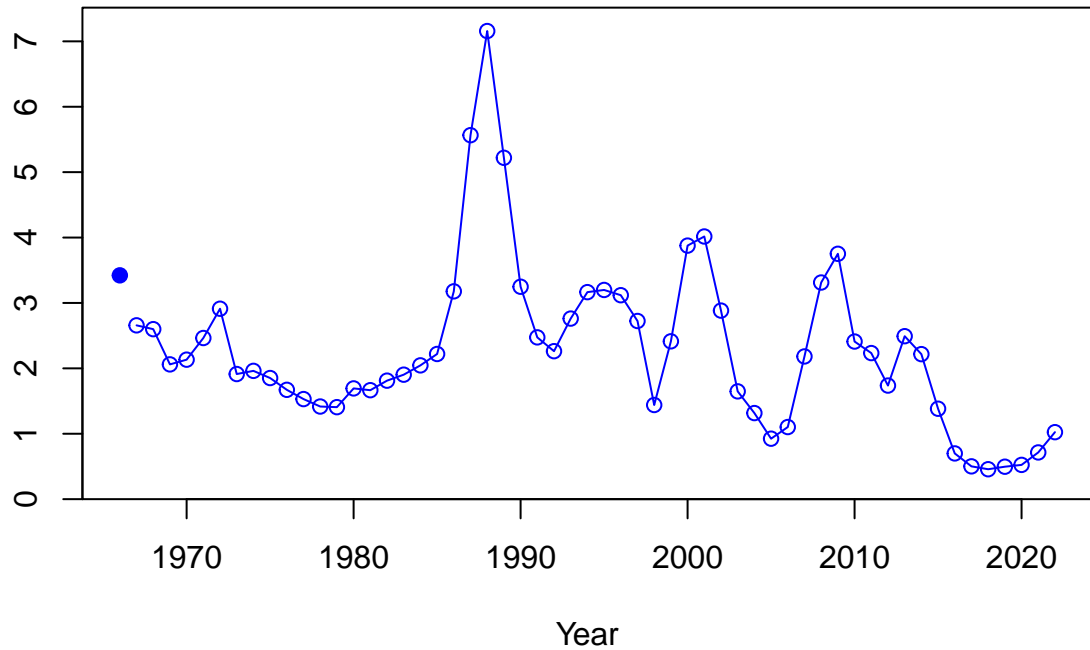
Relative spawning biomass:  $B/B_{MSY}$



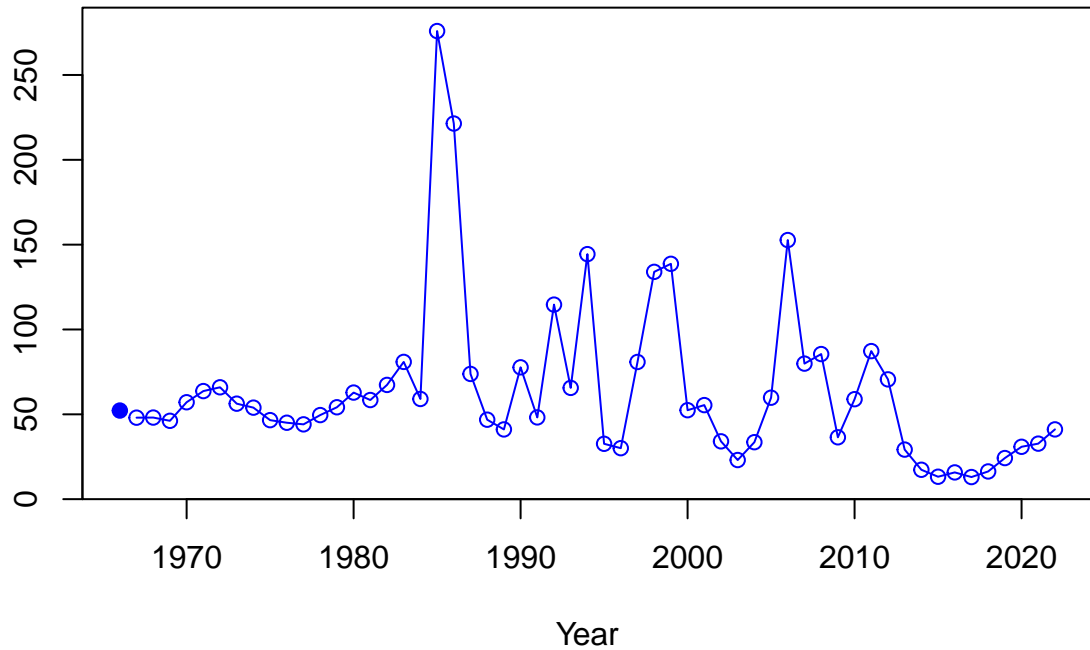


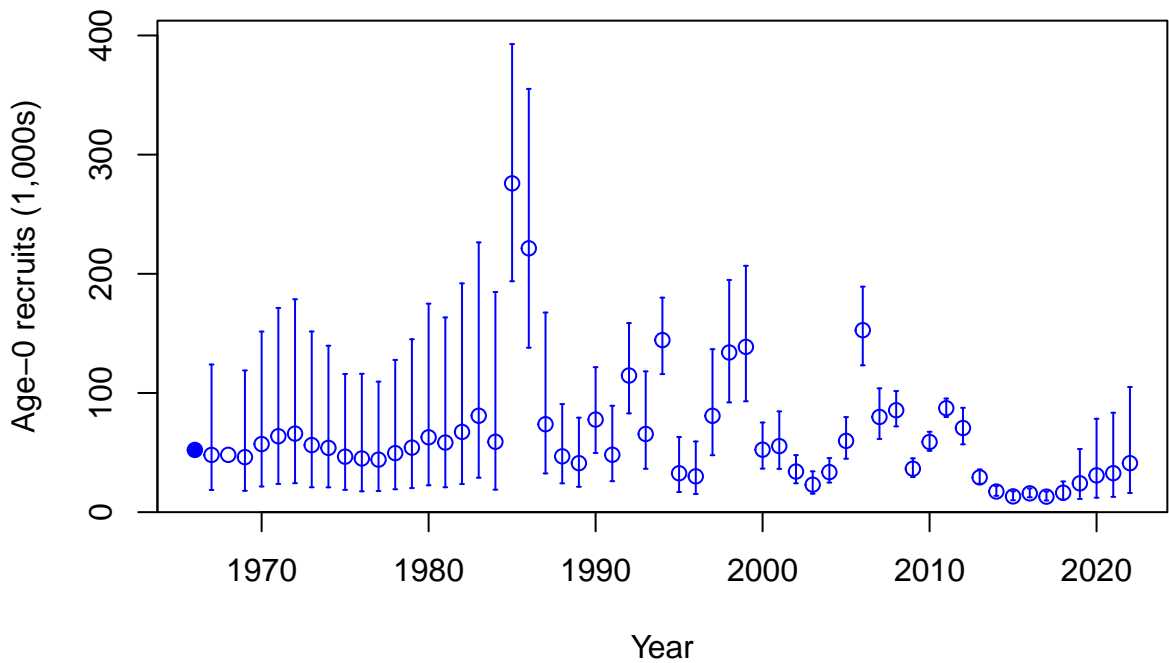


Summary biomass (mt)

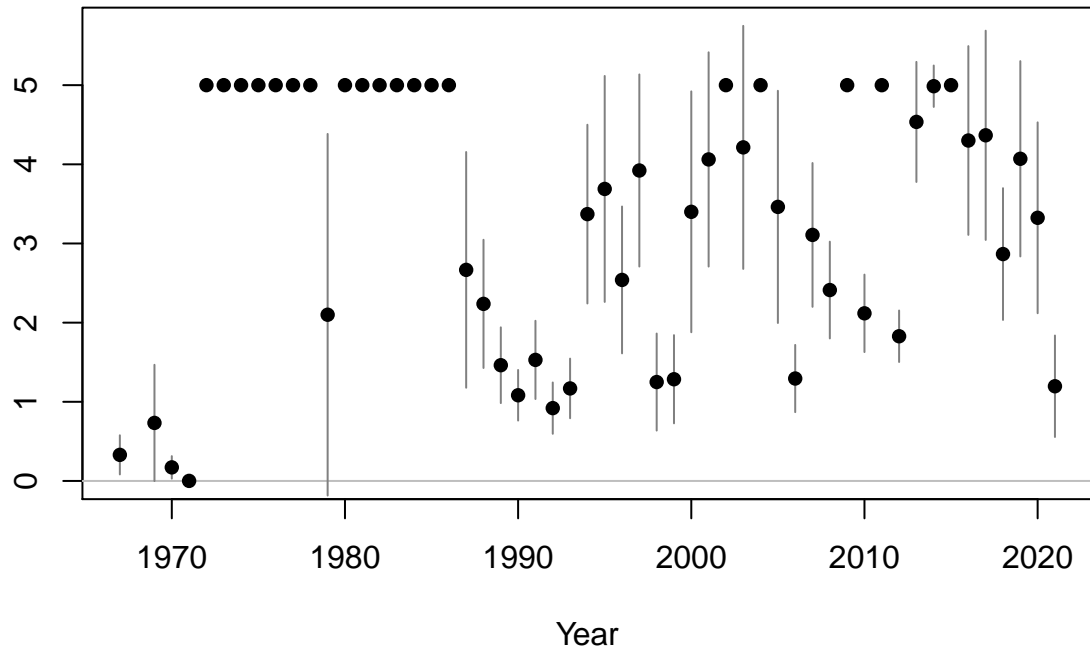


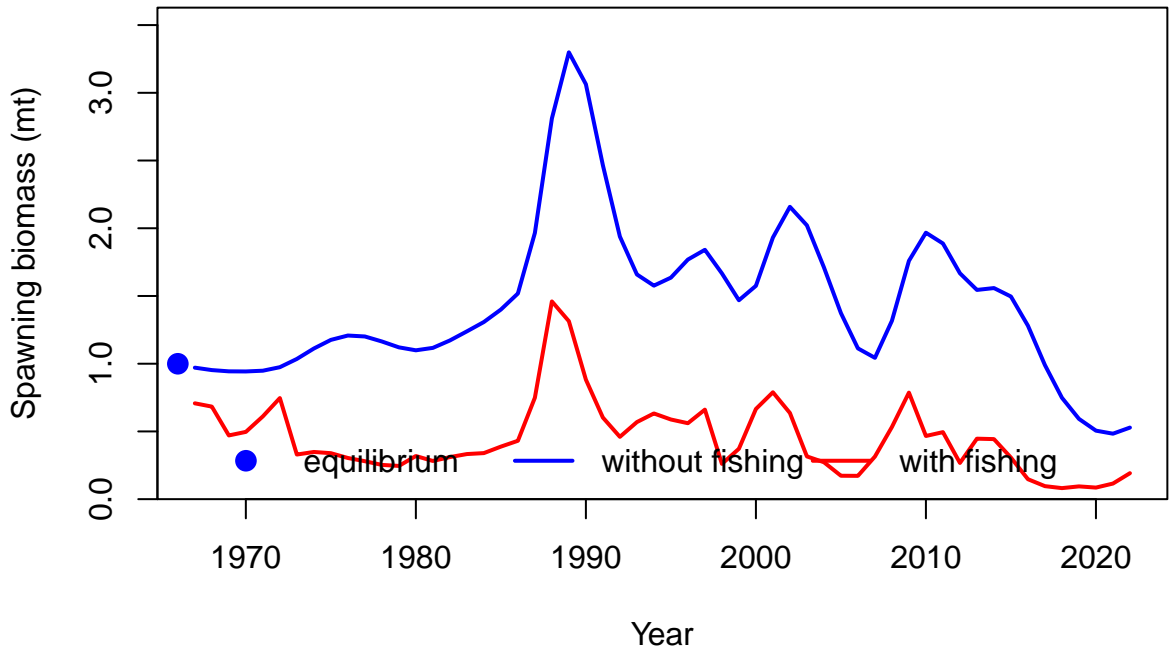
Age-0 recruits (1,000s)



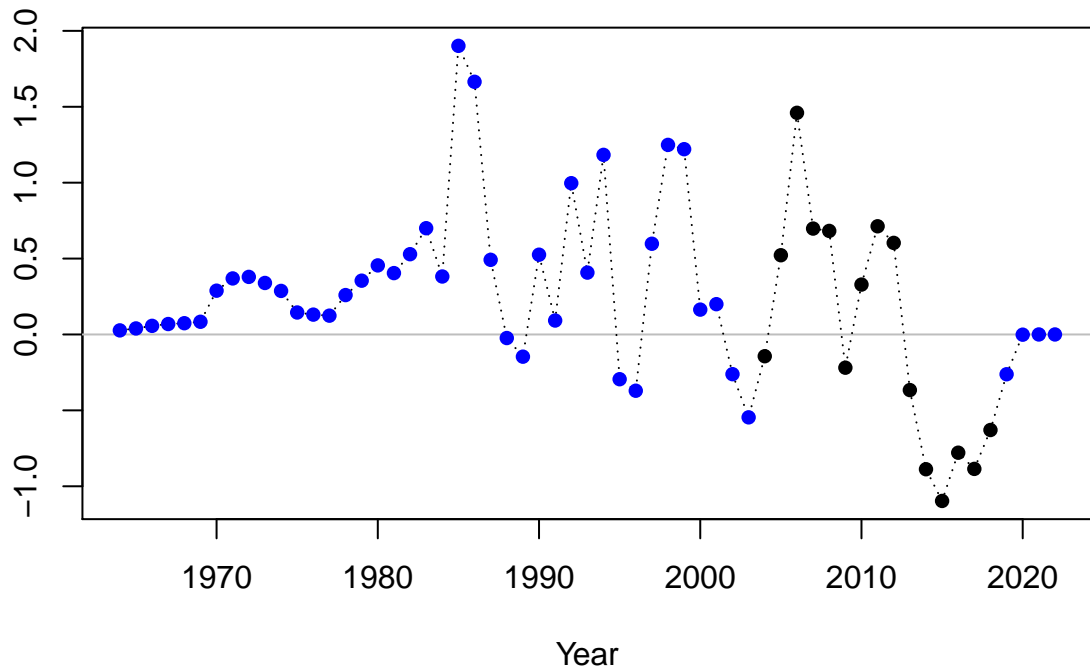


Summary Fishing Mortality



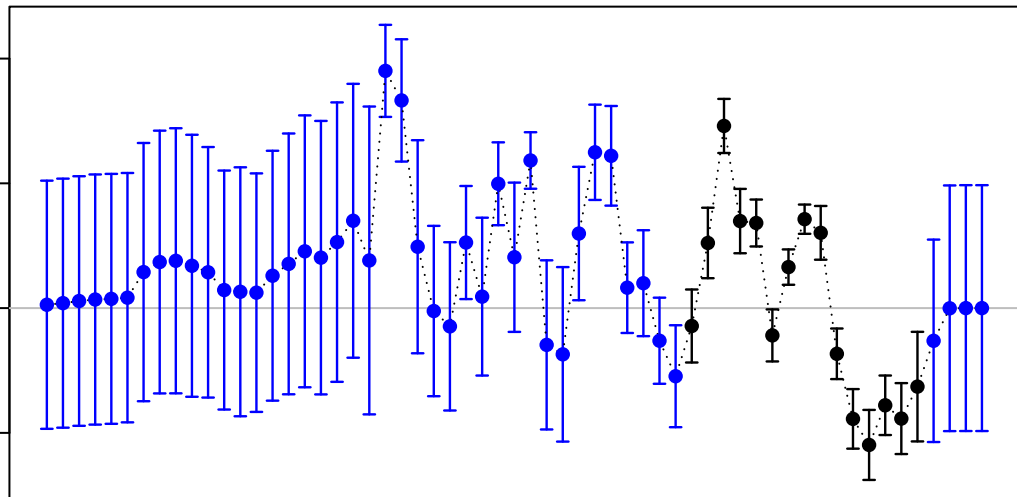


Log recruitment deviation



Log recruitment deviation

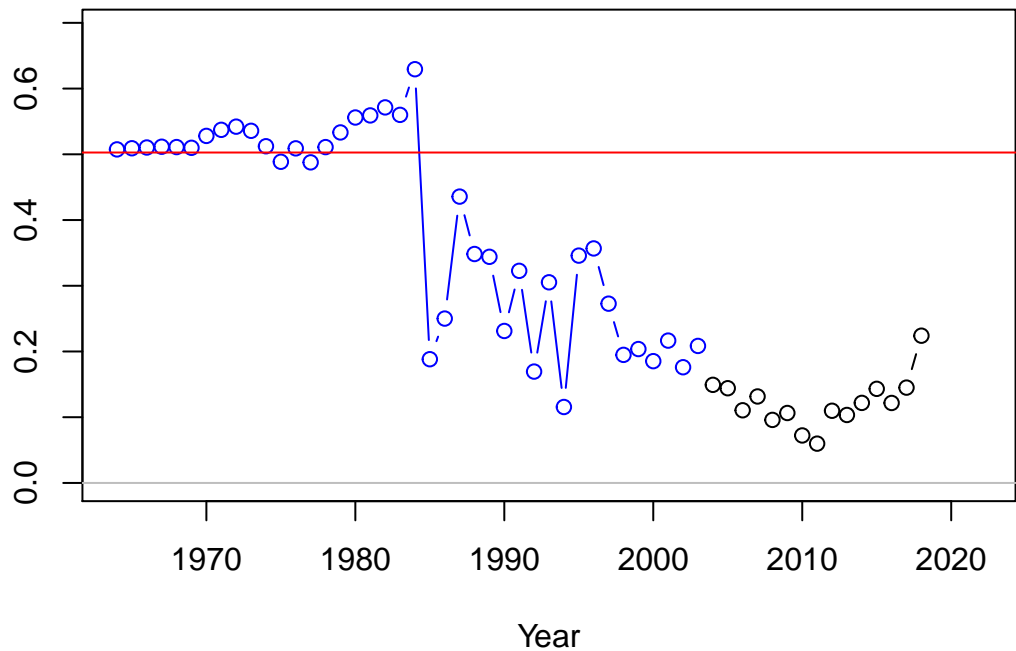
2  
1  
0  
-1



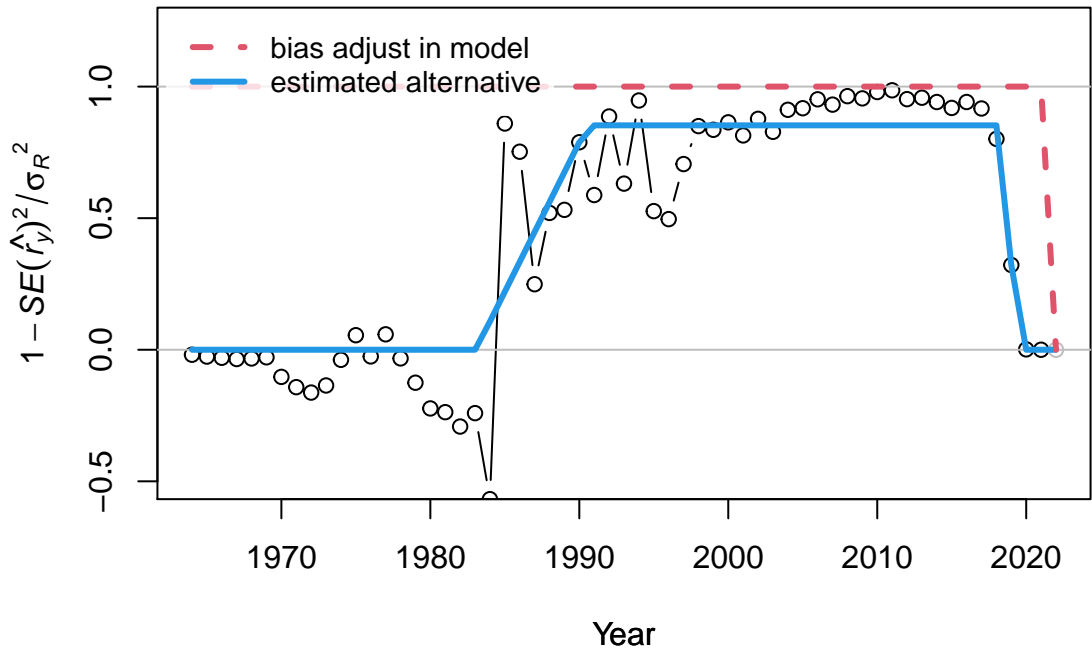
Year

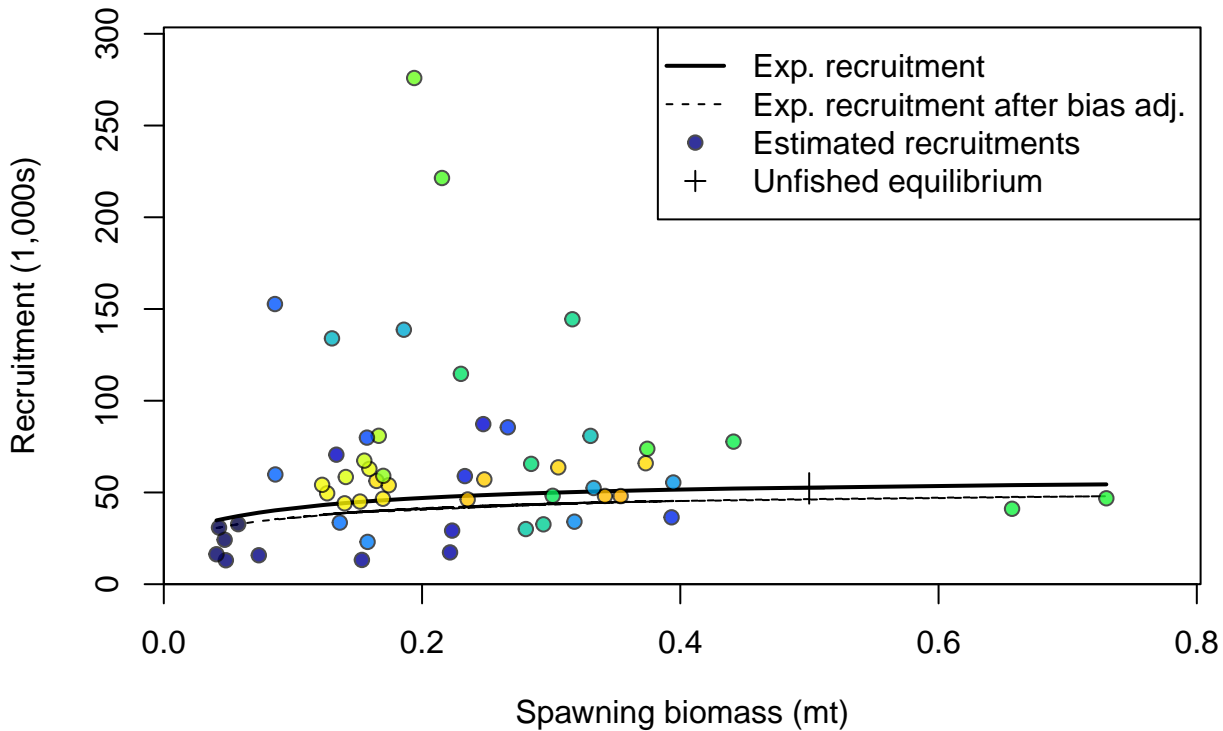
## Recruitment deviation variance

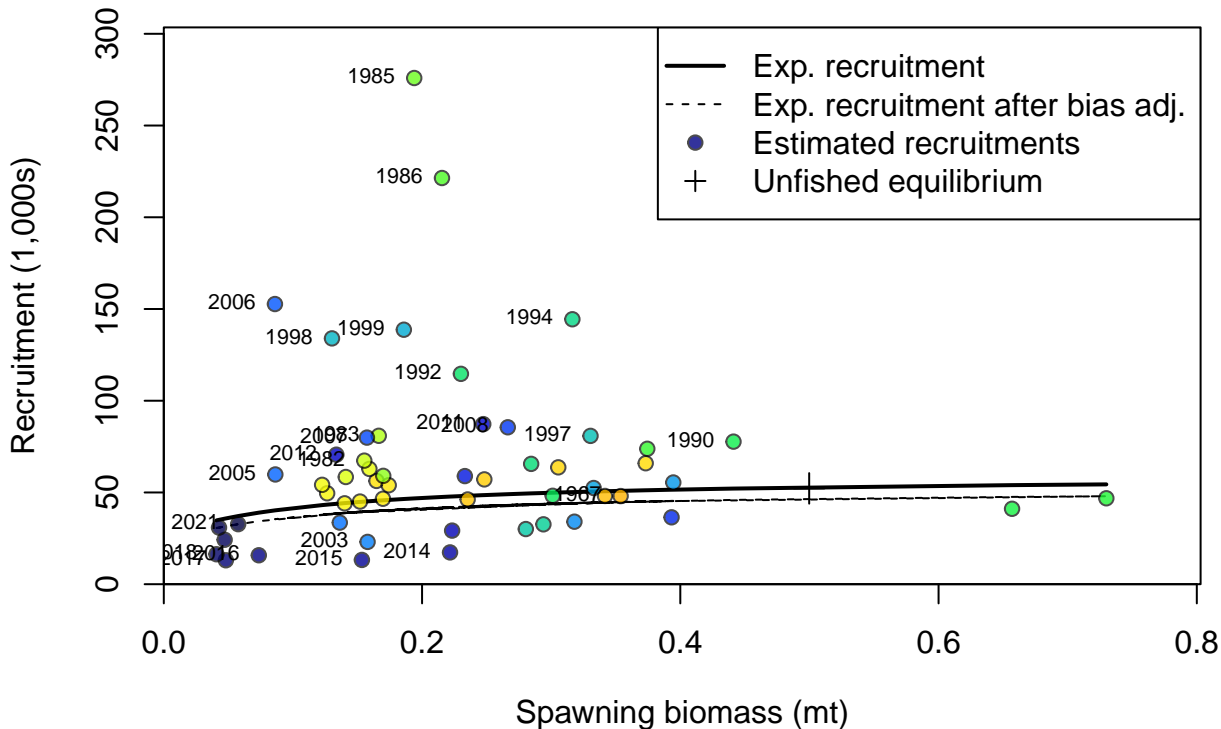
Asymptotic standard error estimate



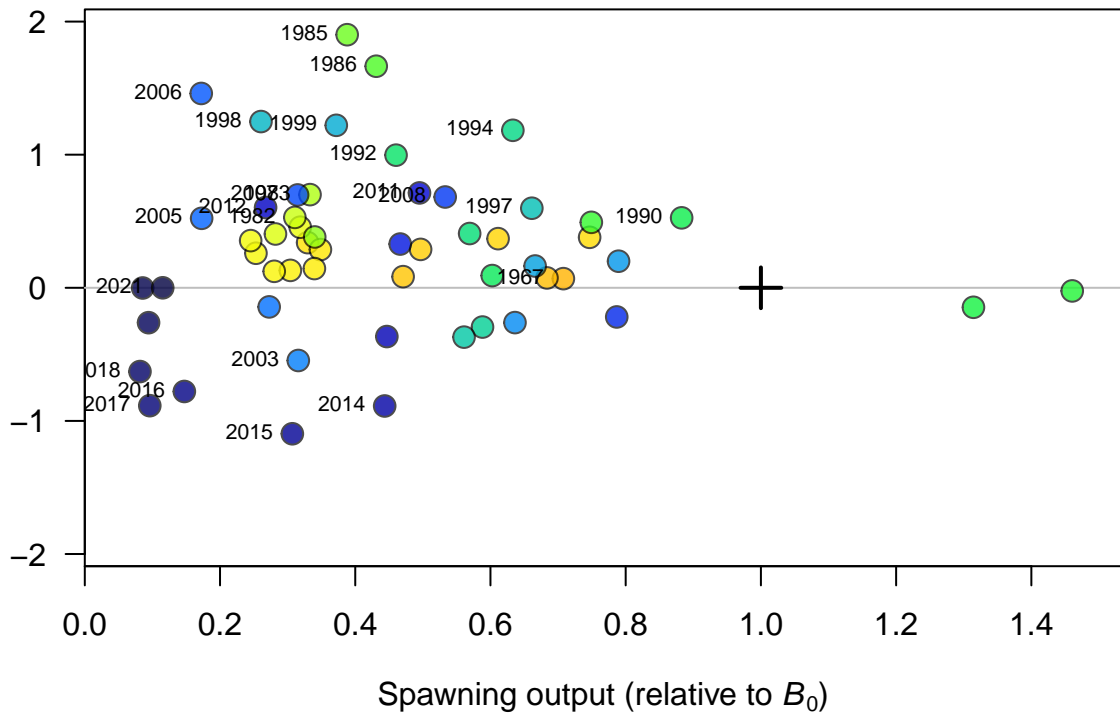


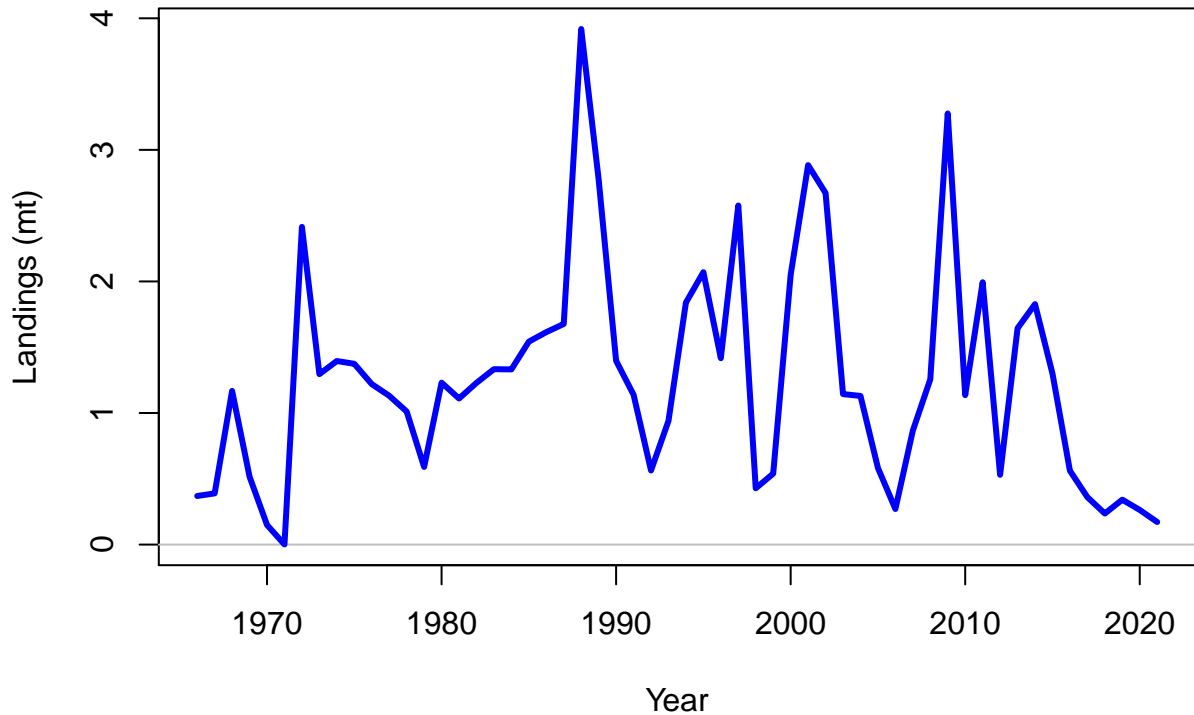


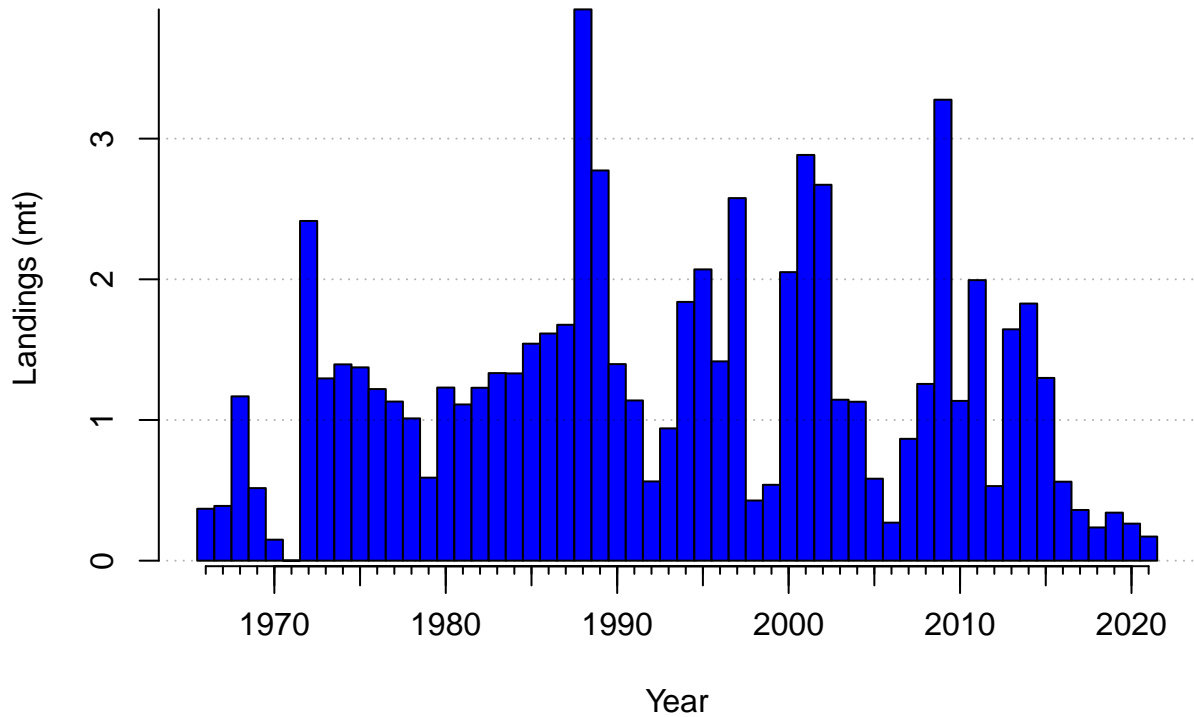




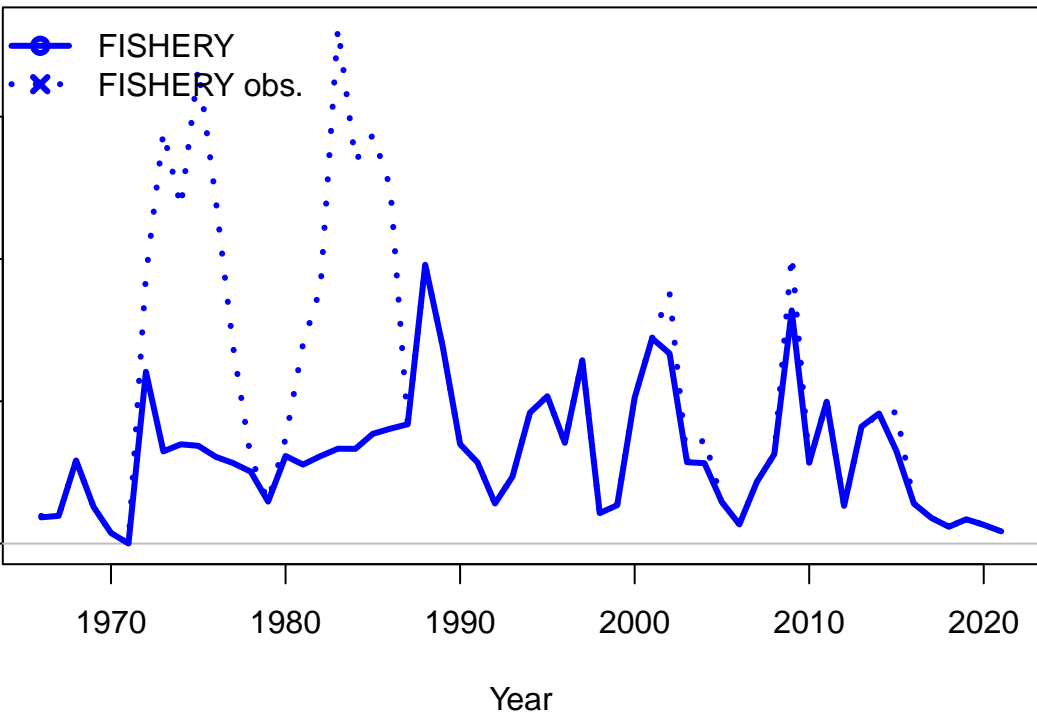
Log recruitment deviation

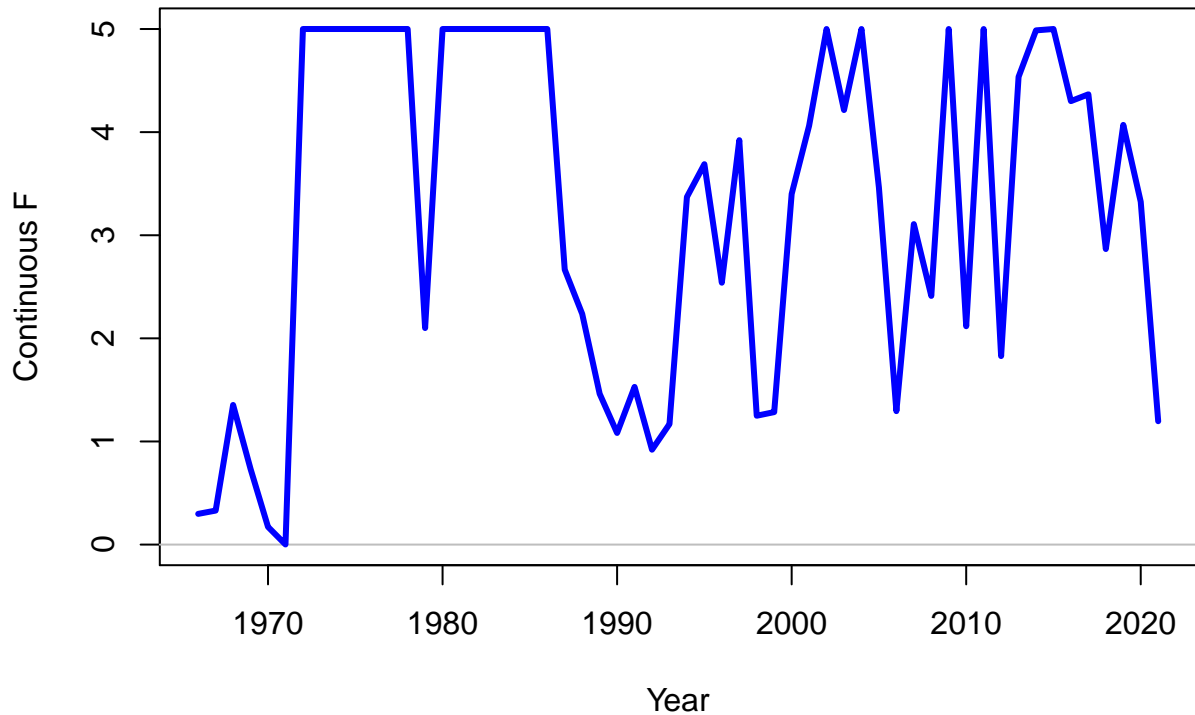






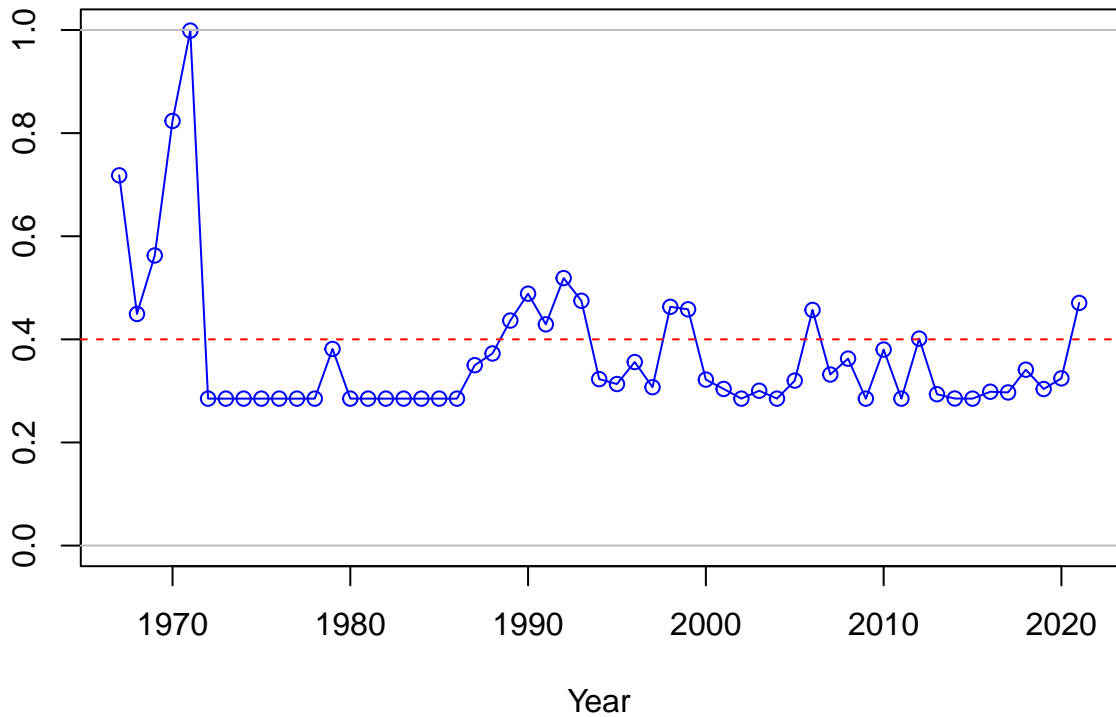
Observed and expected Landings (mt)

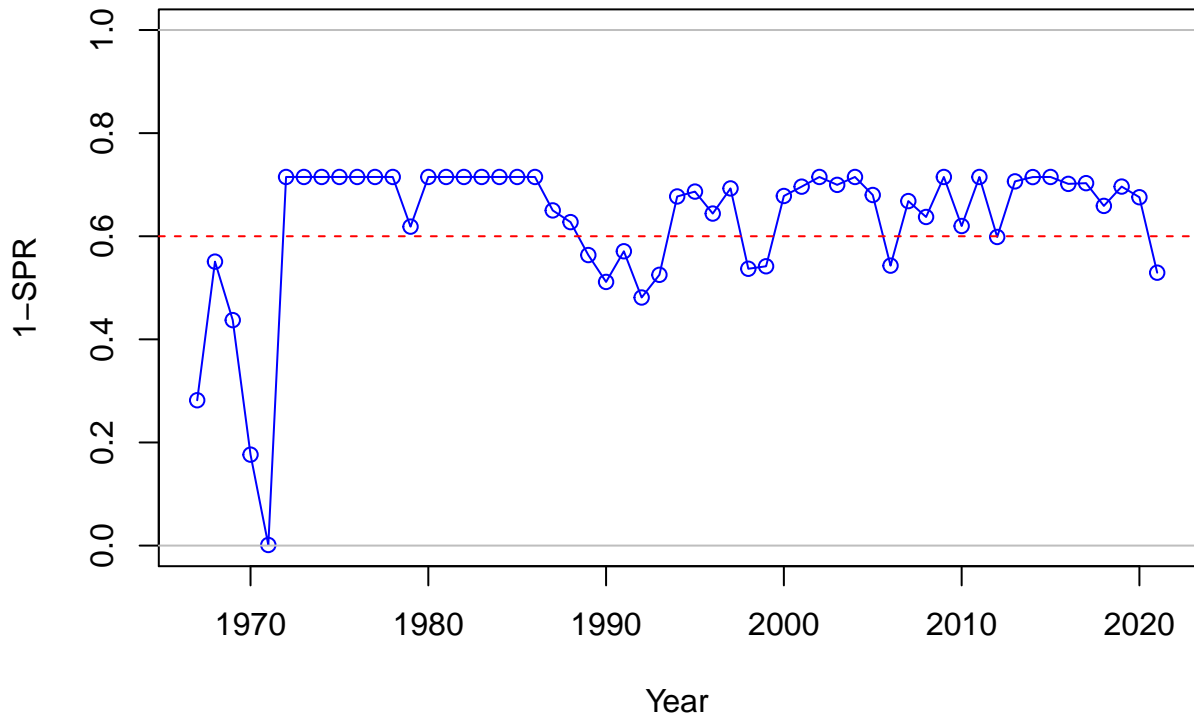




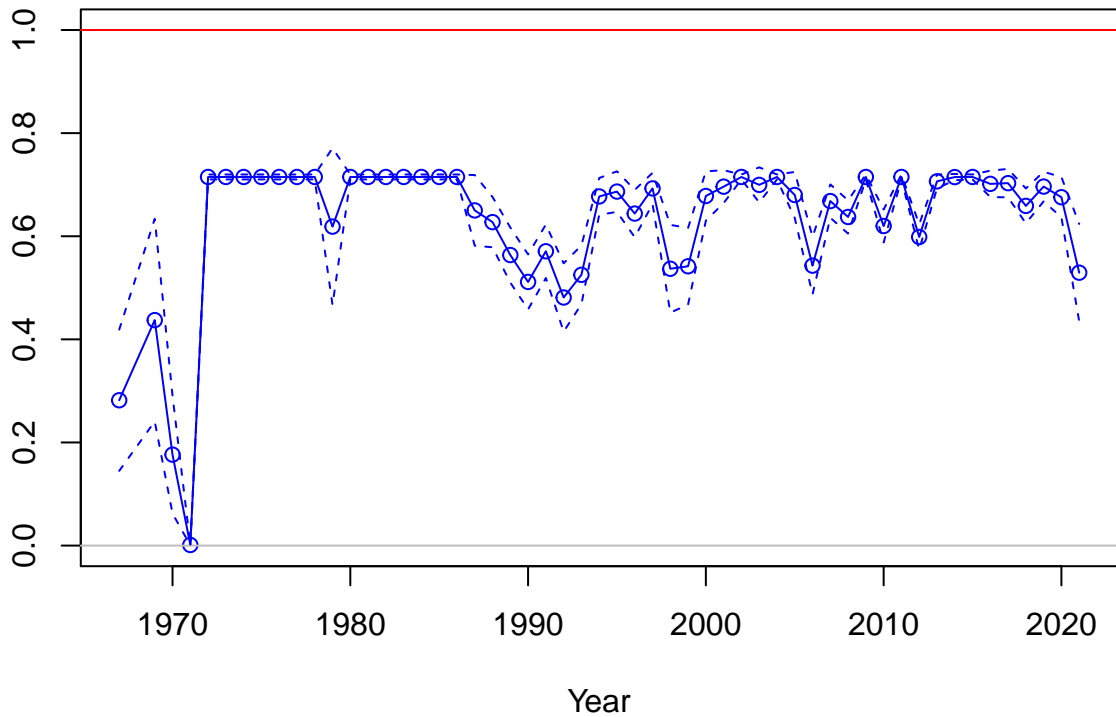


SPR

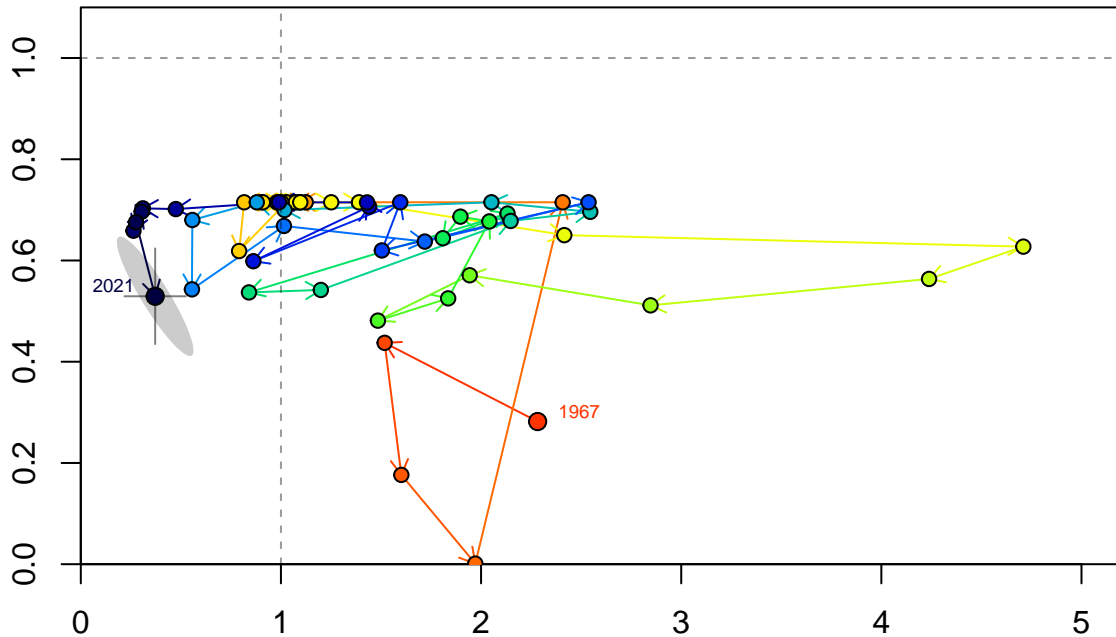




Fishing intensity: 1-SPR



Fishing intensity: 1-SPR

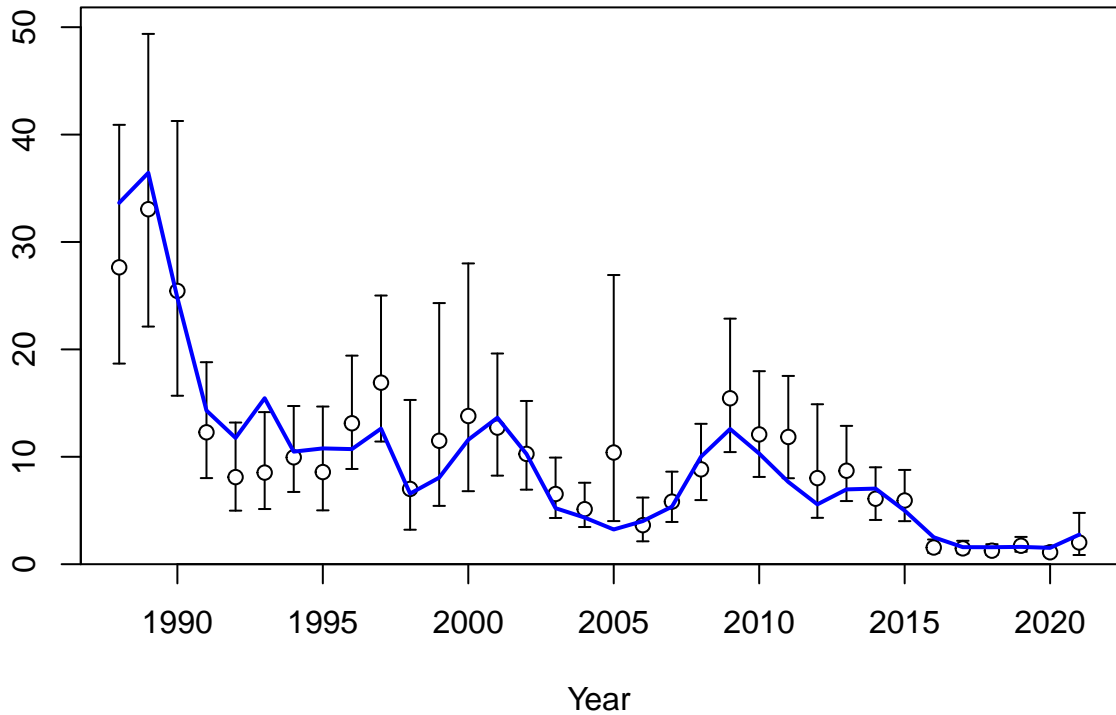


Relative spawning output: B/B\_MSY

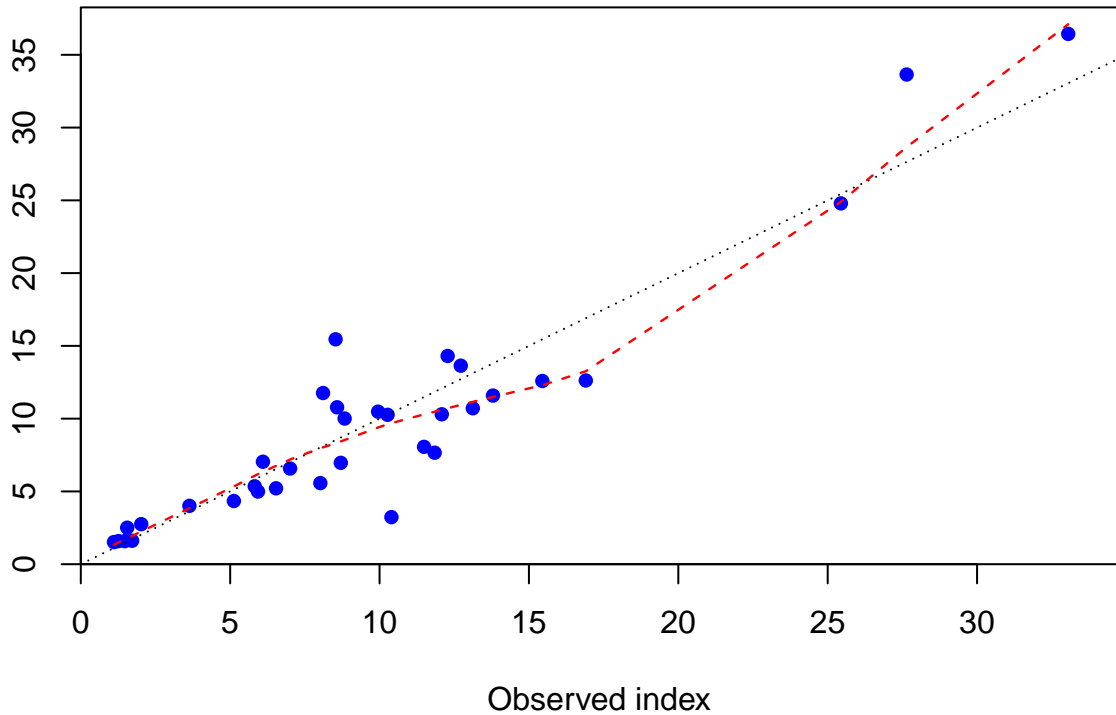
Index



Index



Expected index

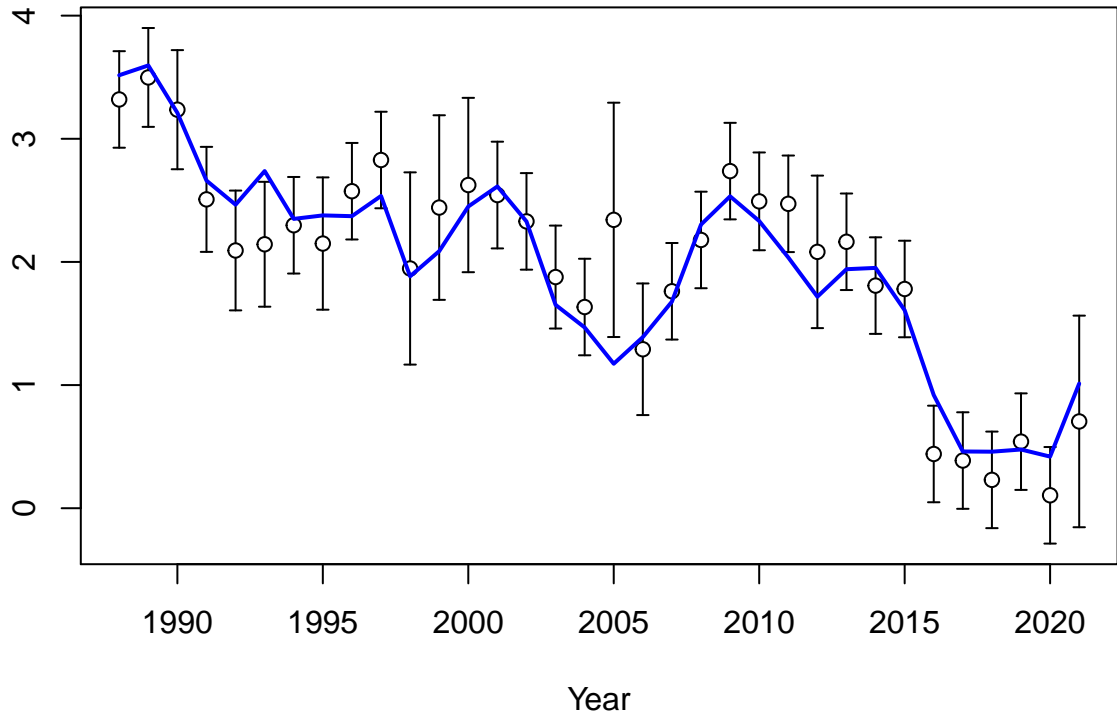


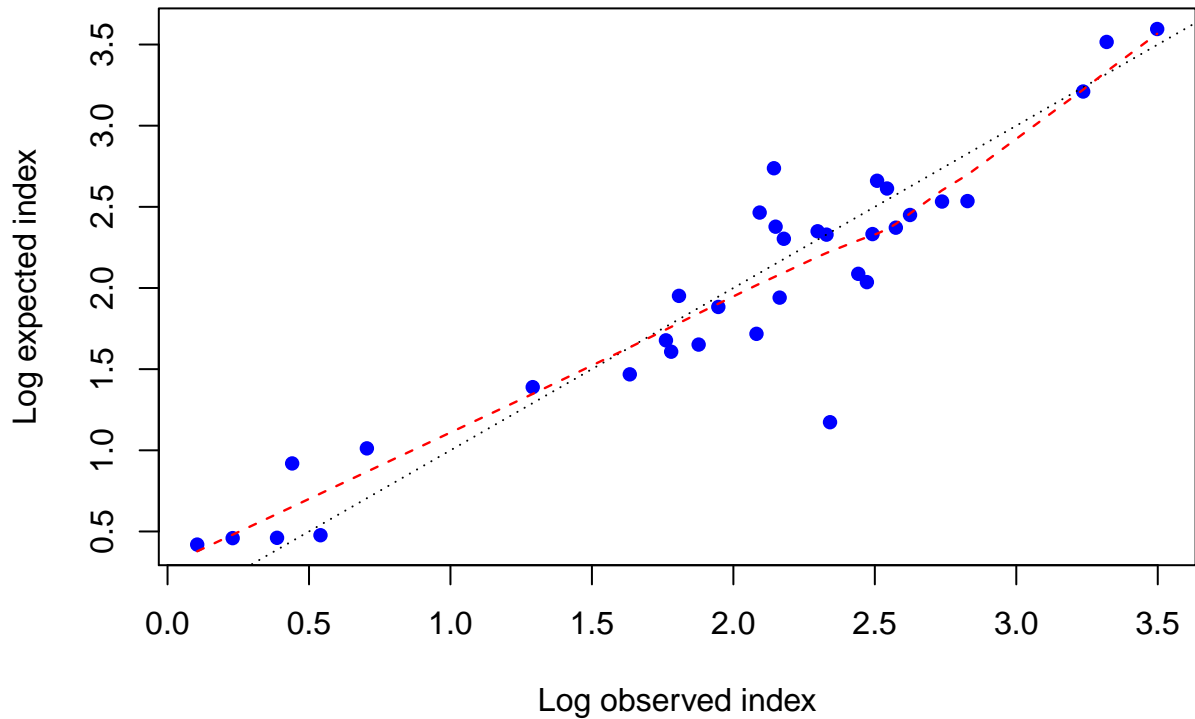
Log index



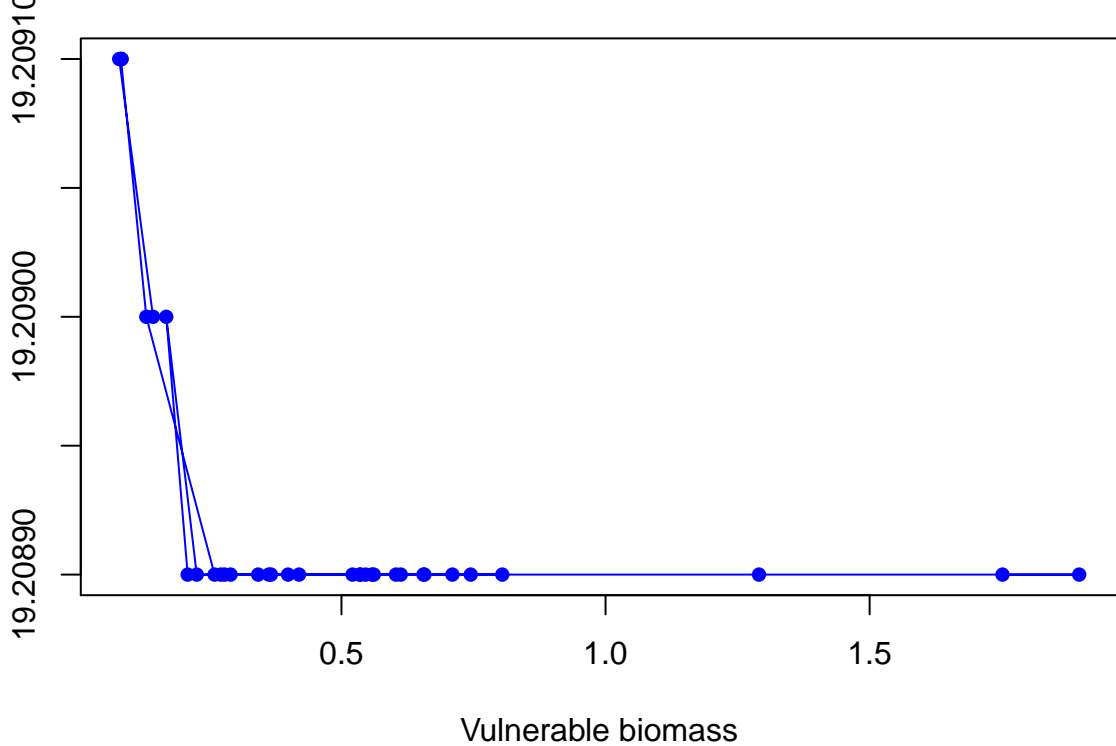


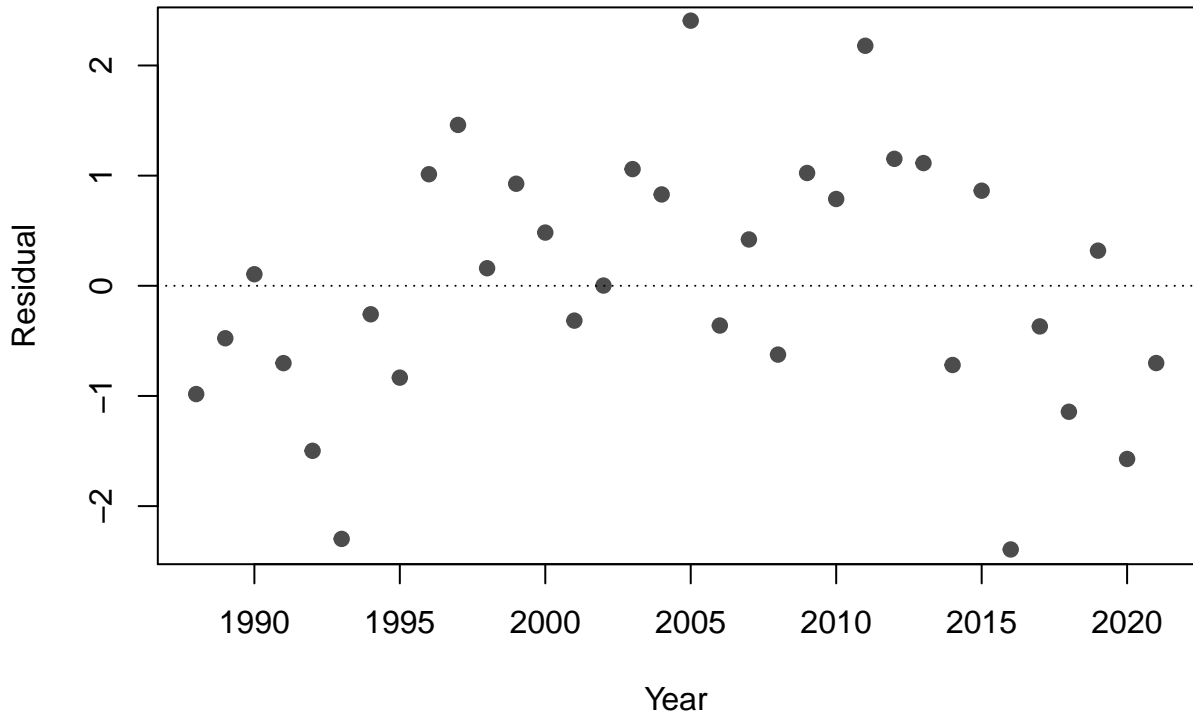
Log index

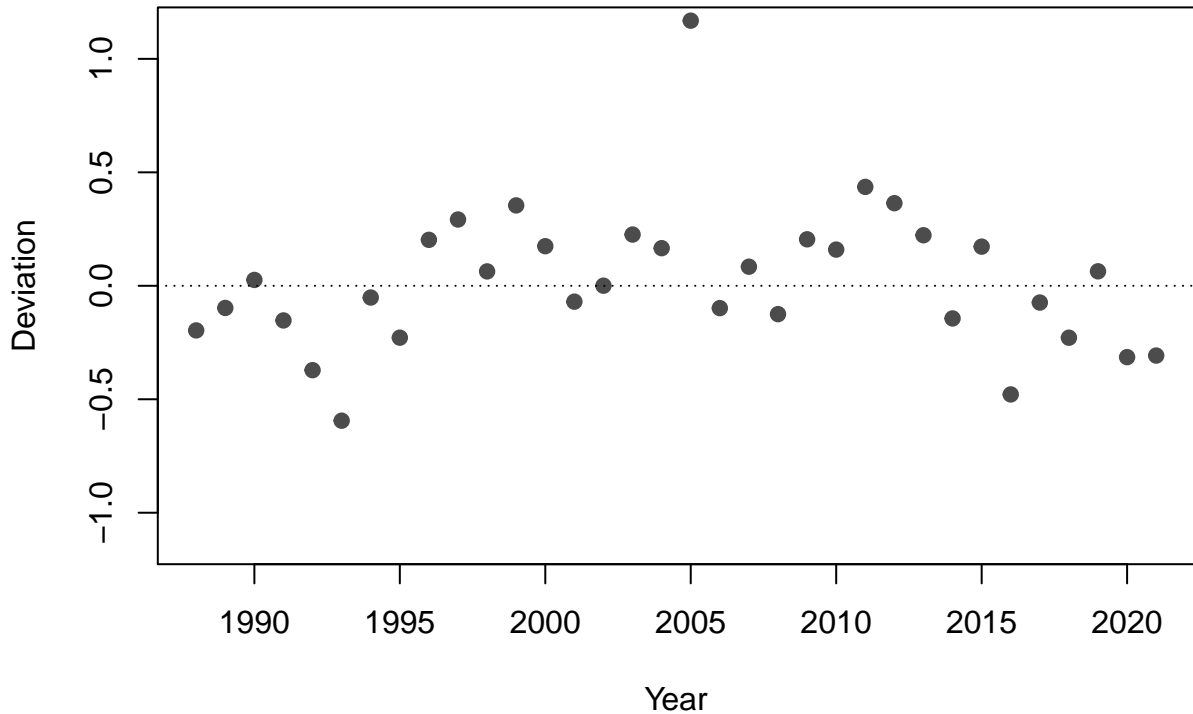




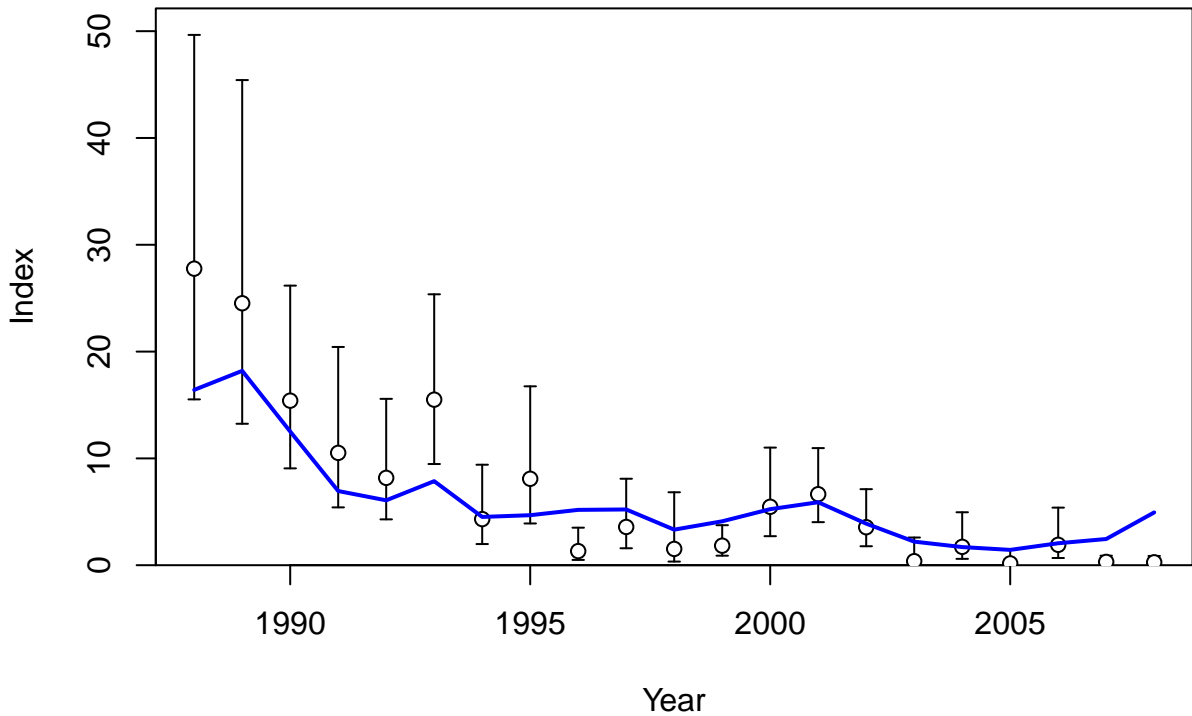
Effective catchability

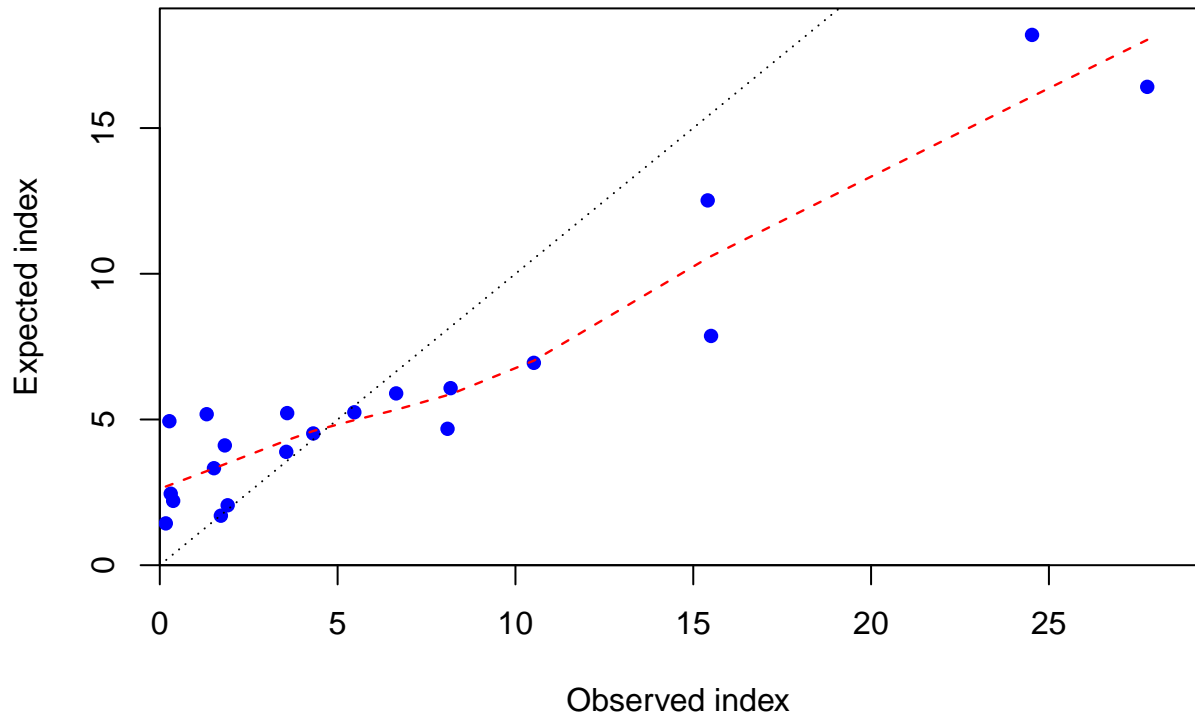






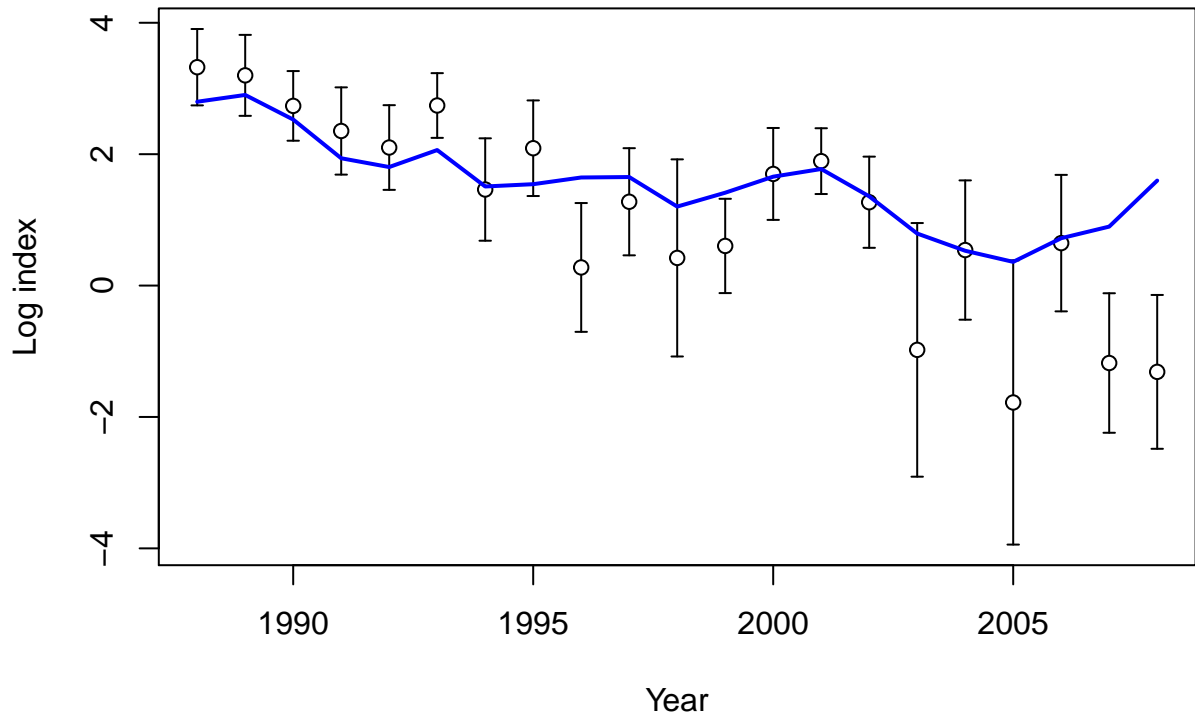


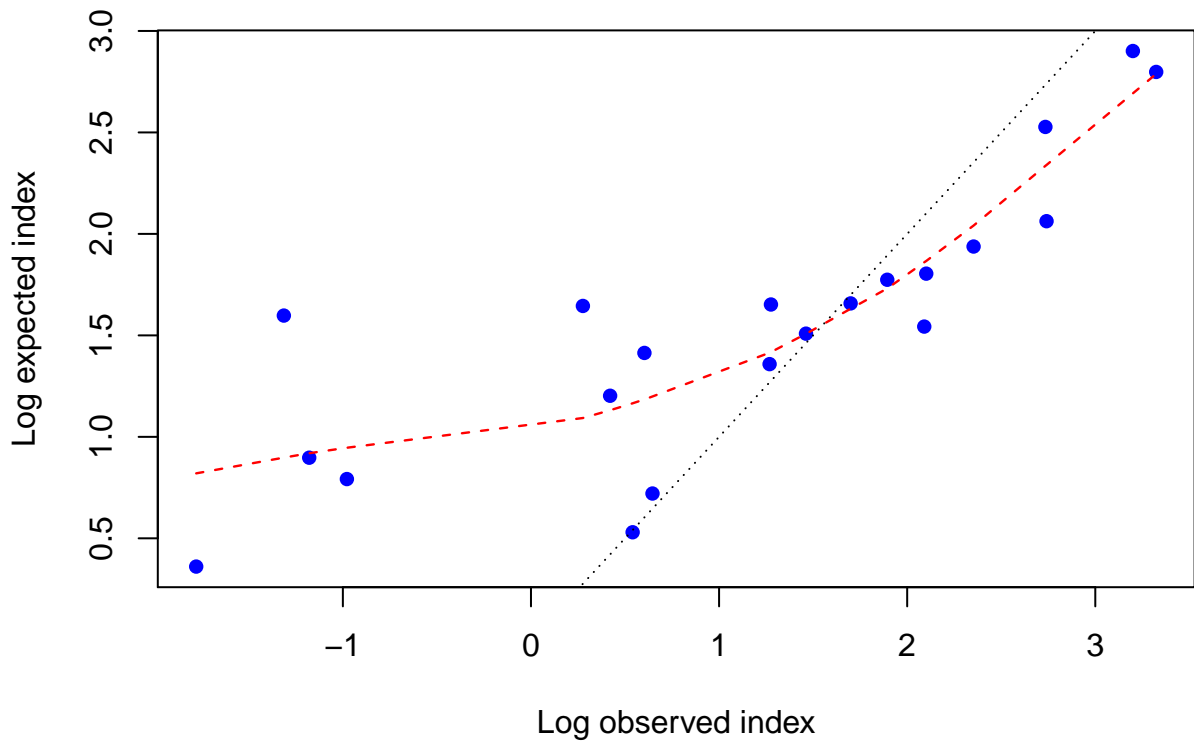


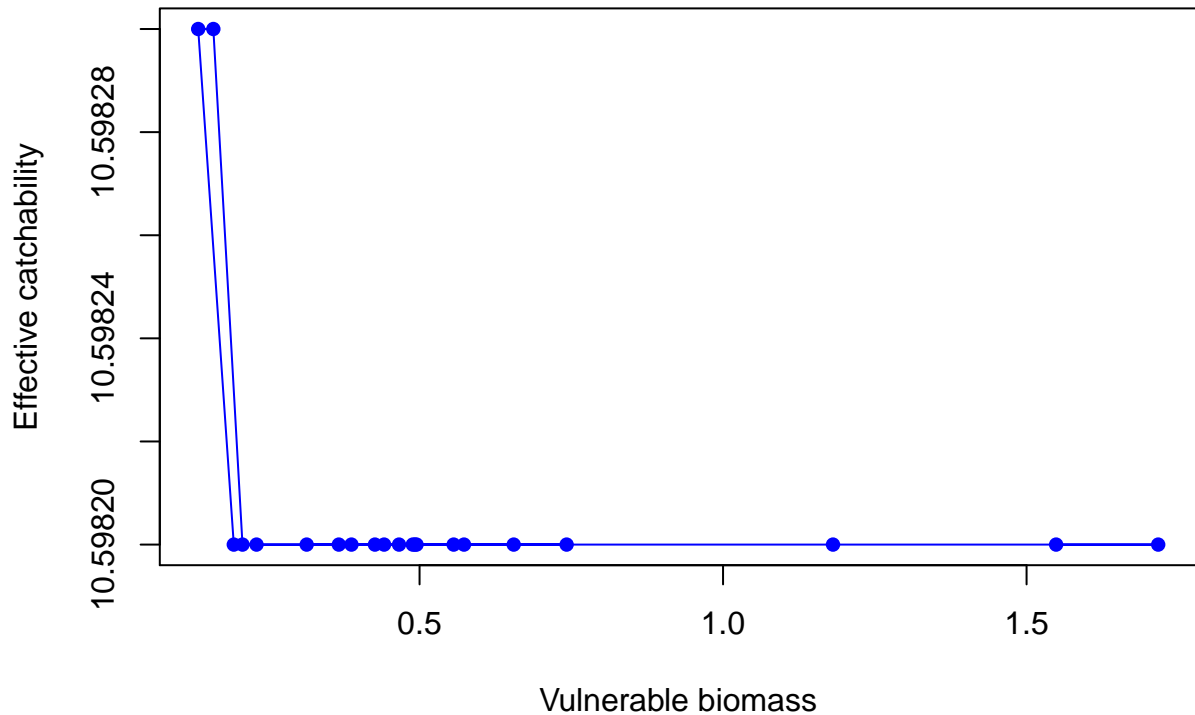


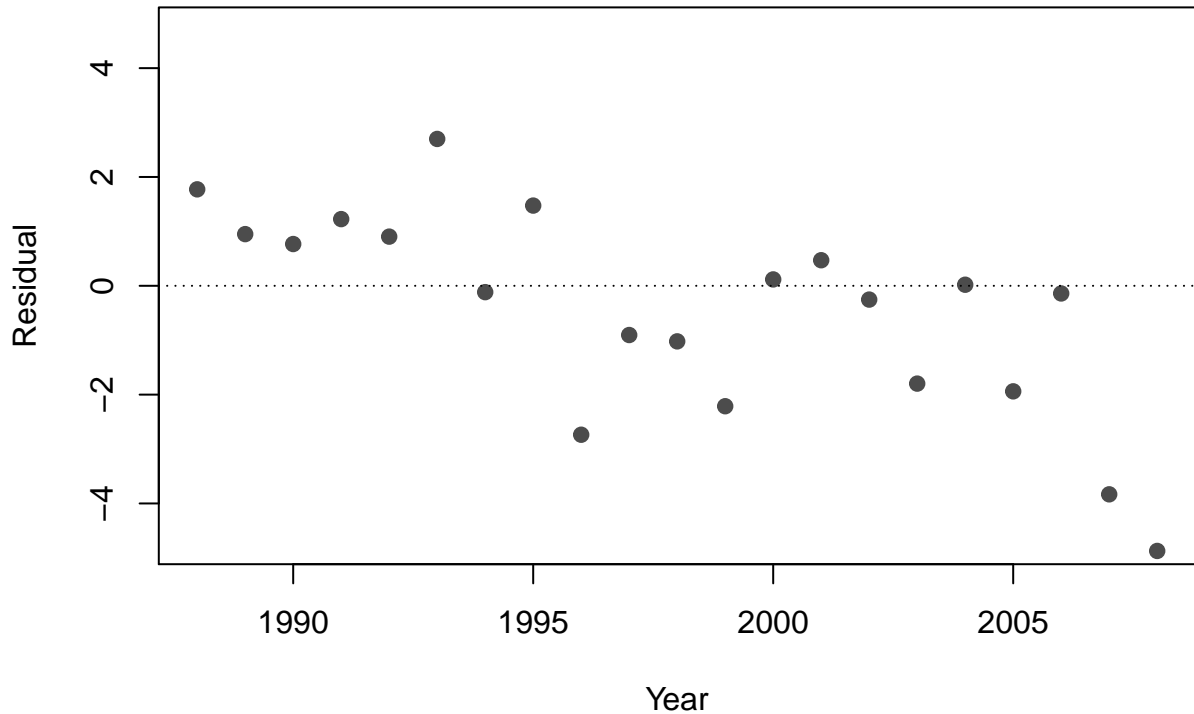




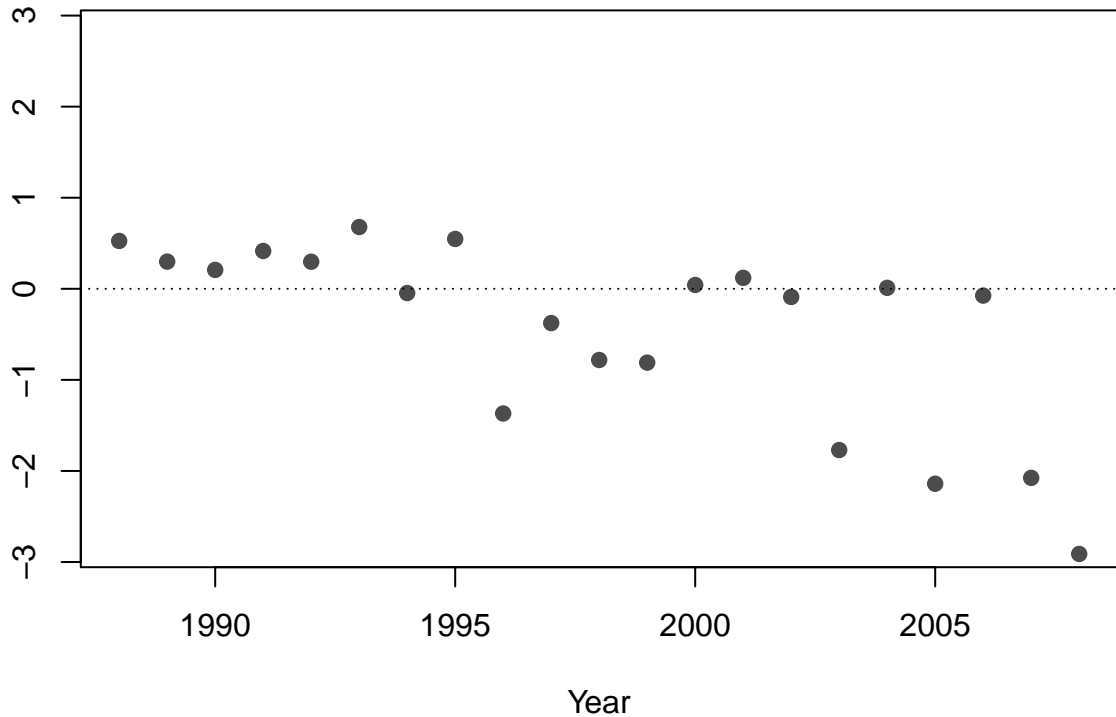






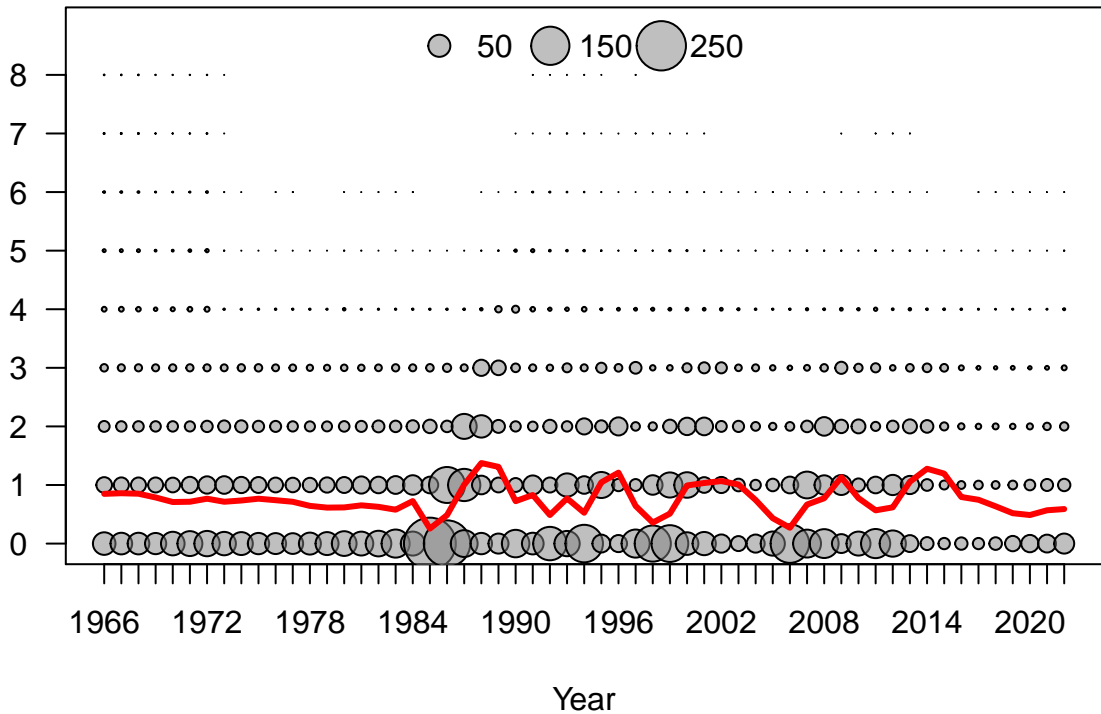


Deviation



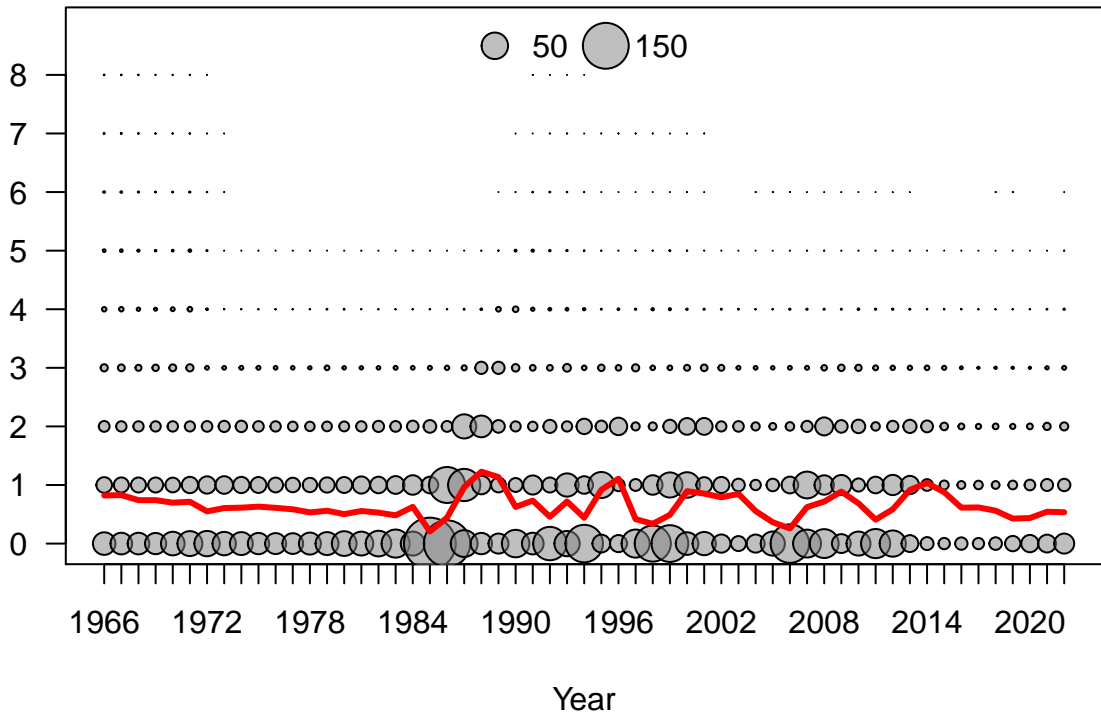


Age

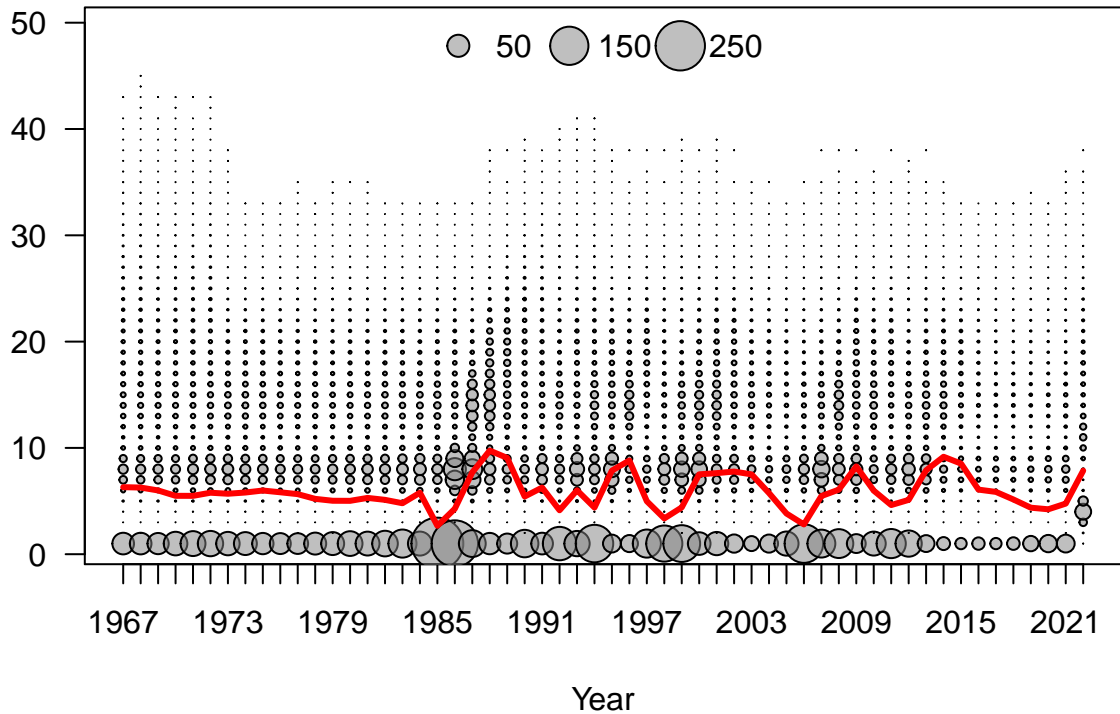


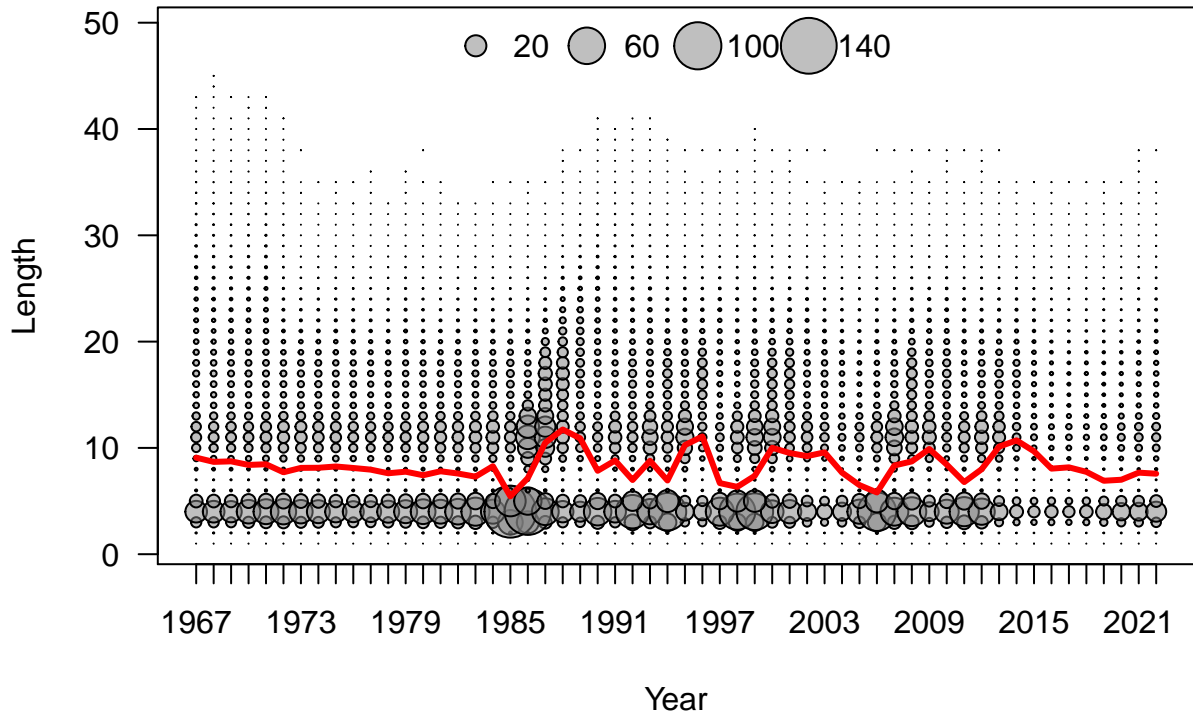


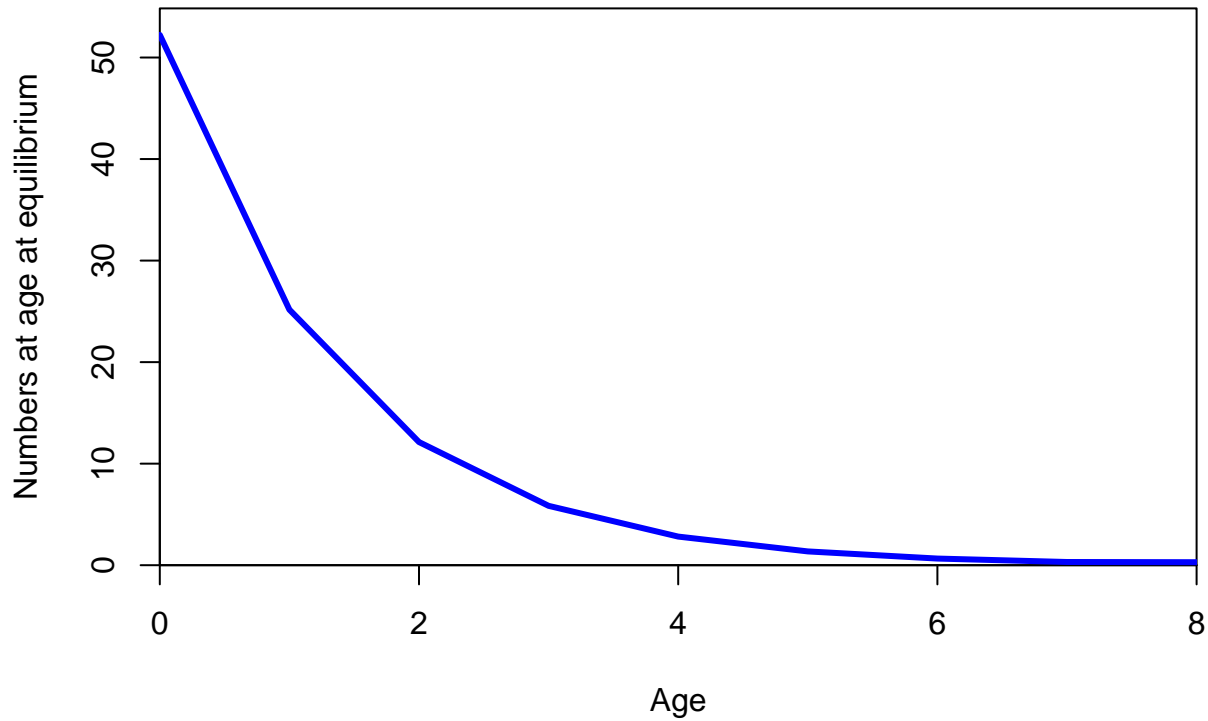
Age



Length

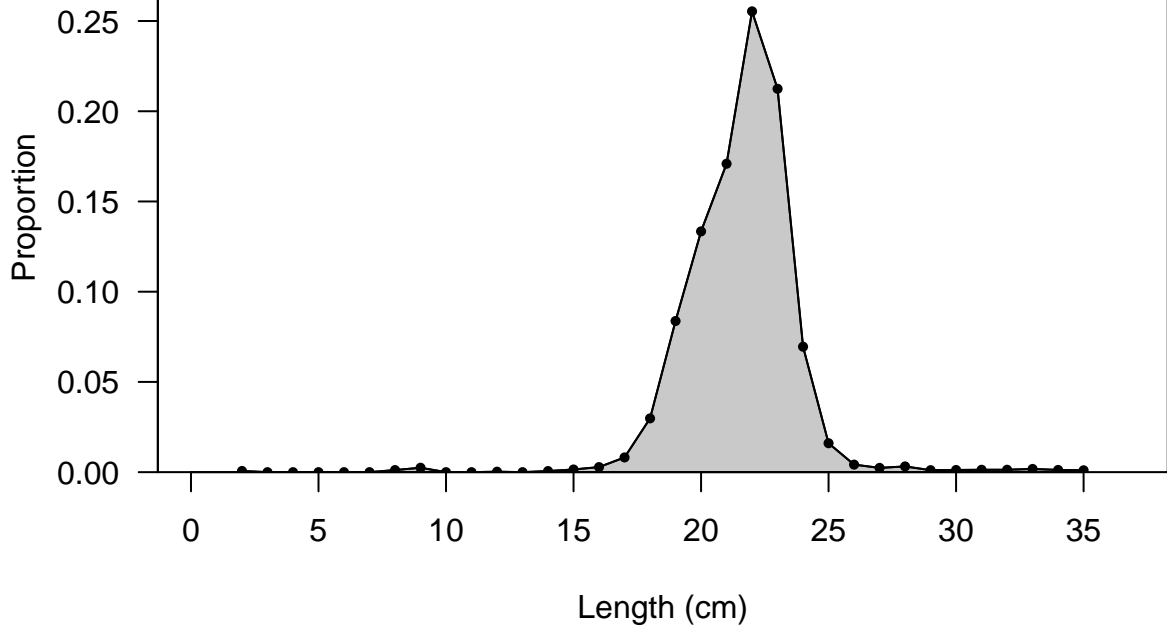


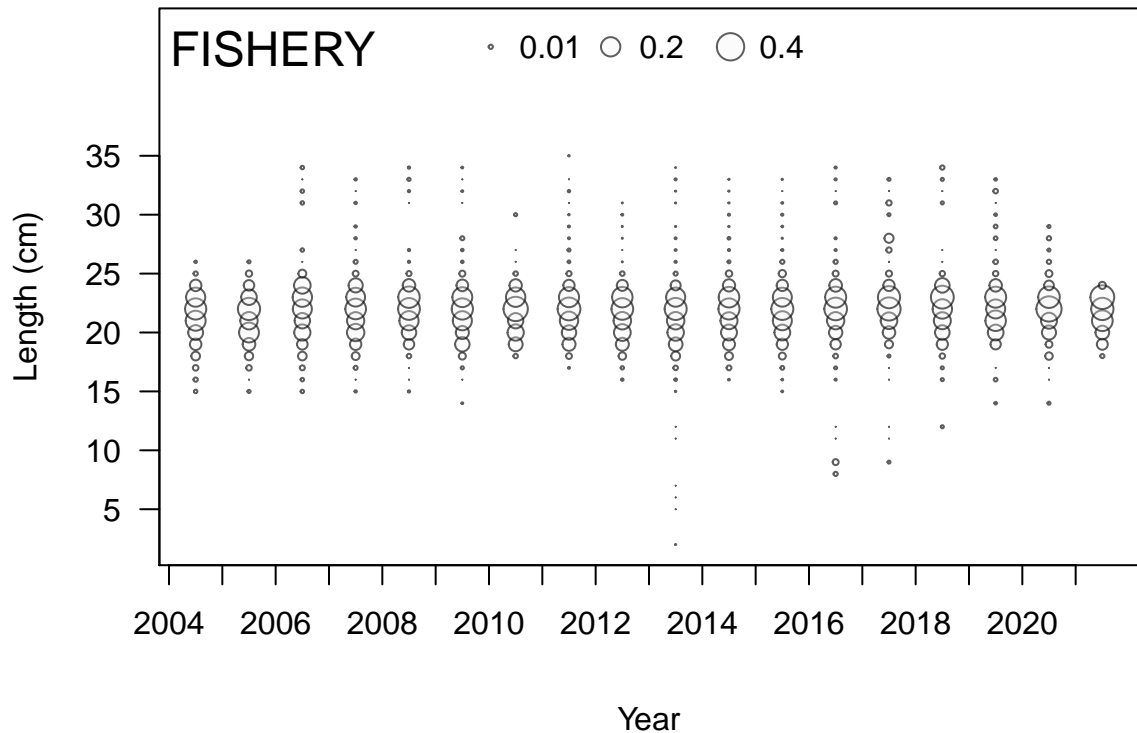


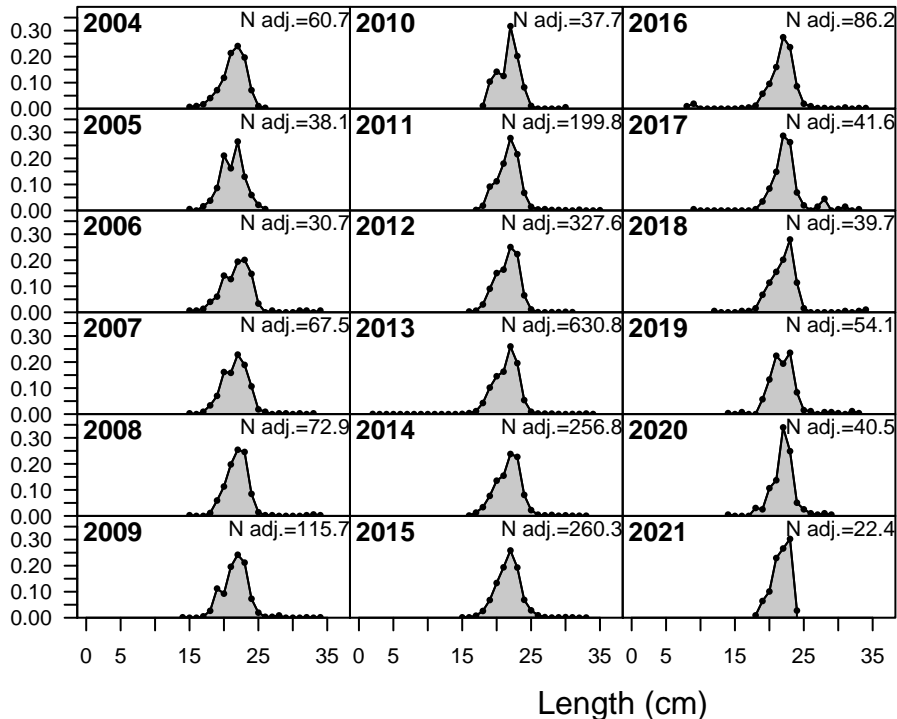


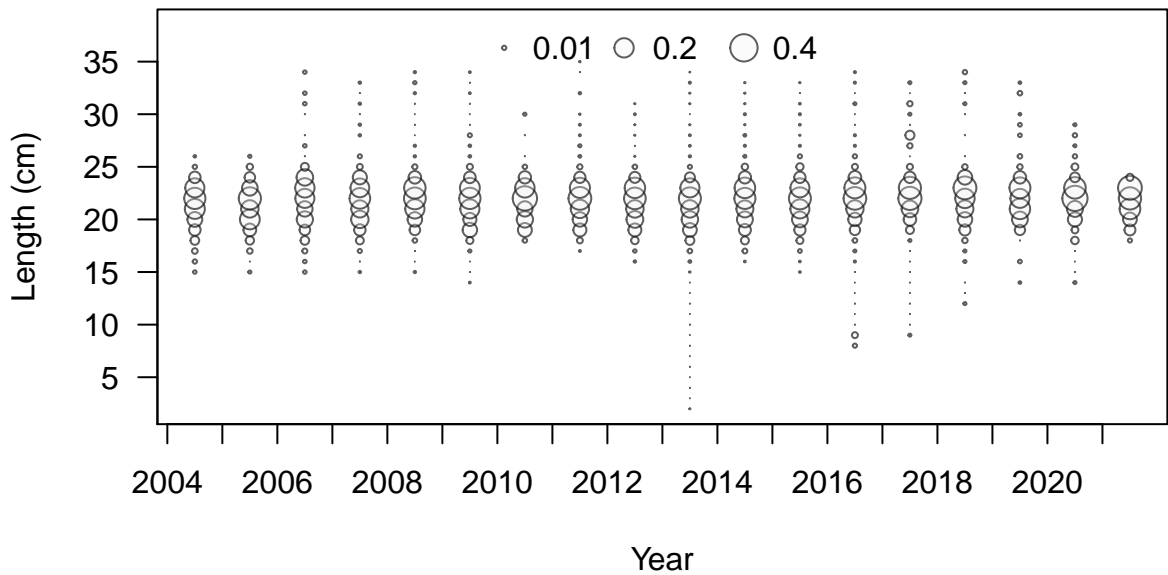
# FISHERY

Sum of N adj.=2383.2



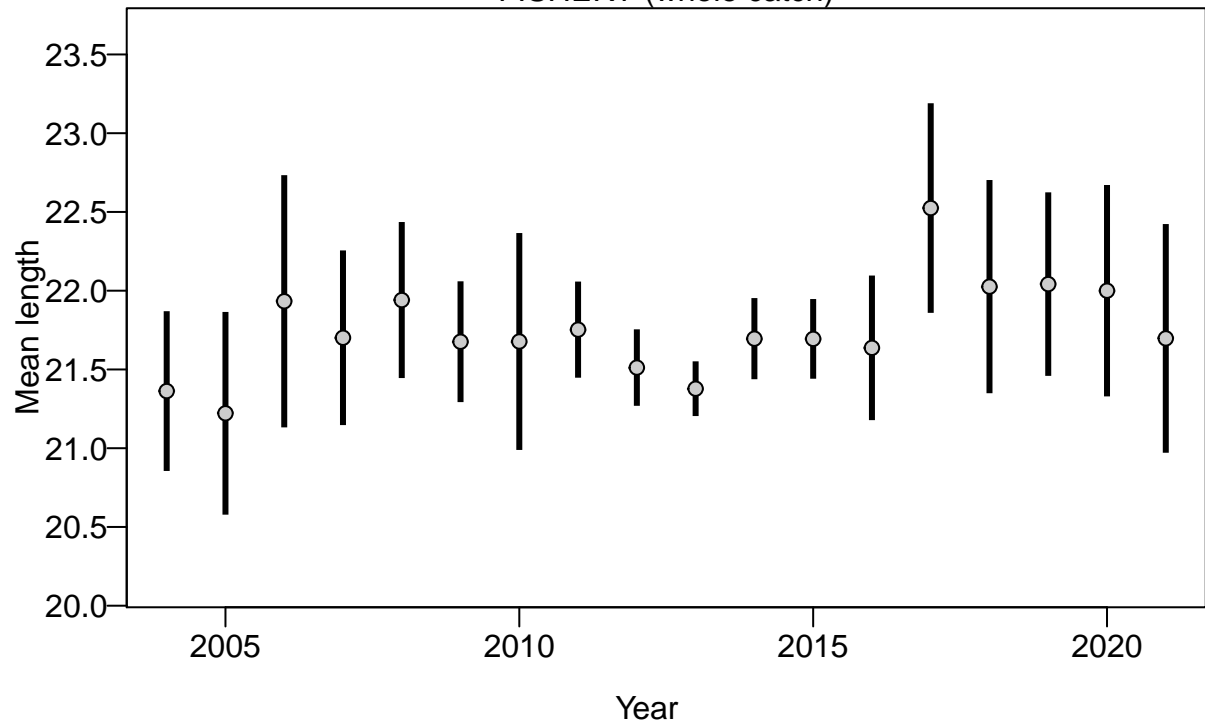


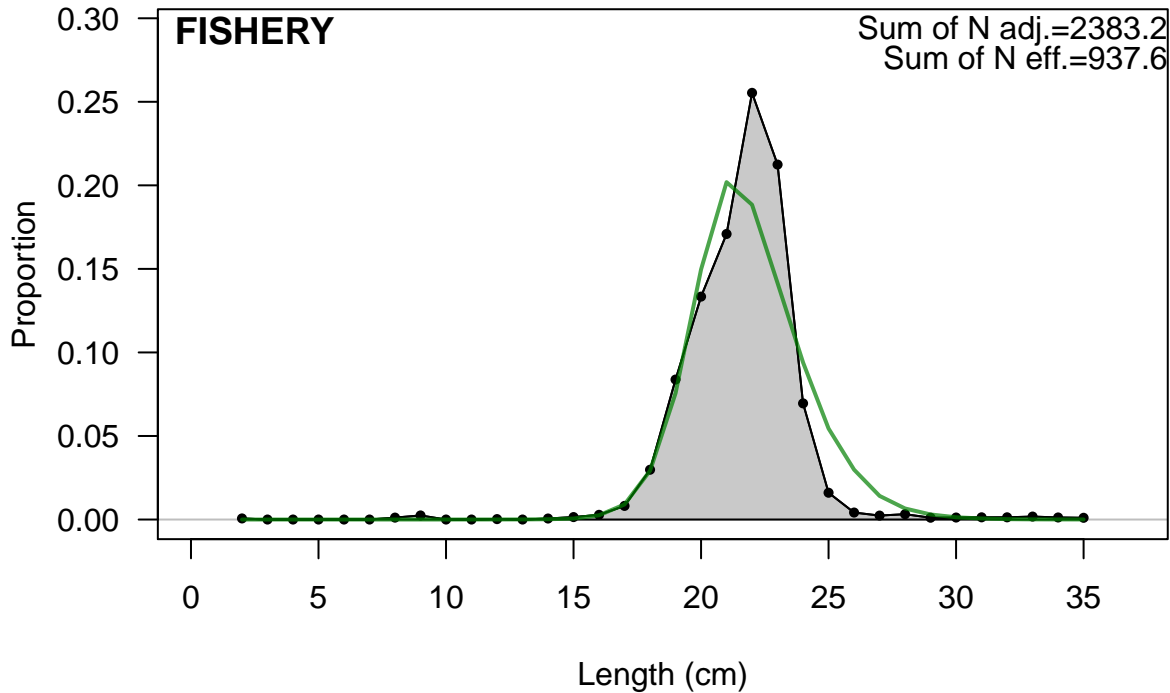


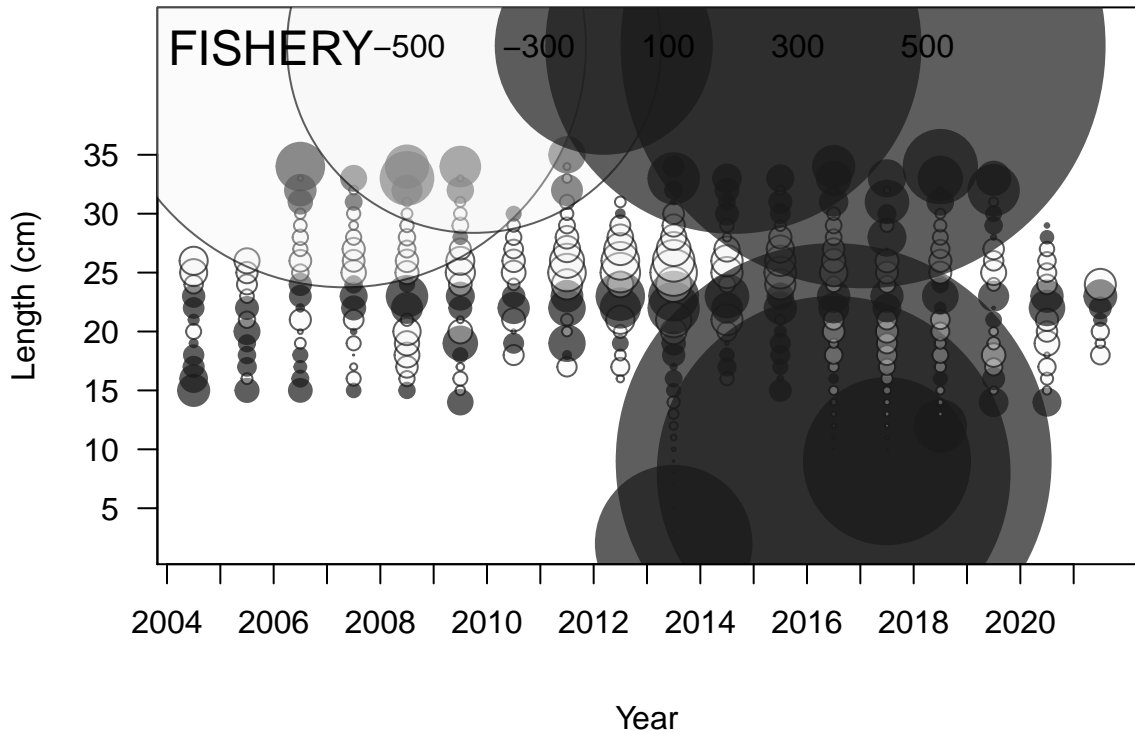


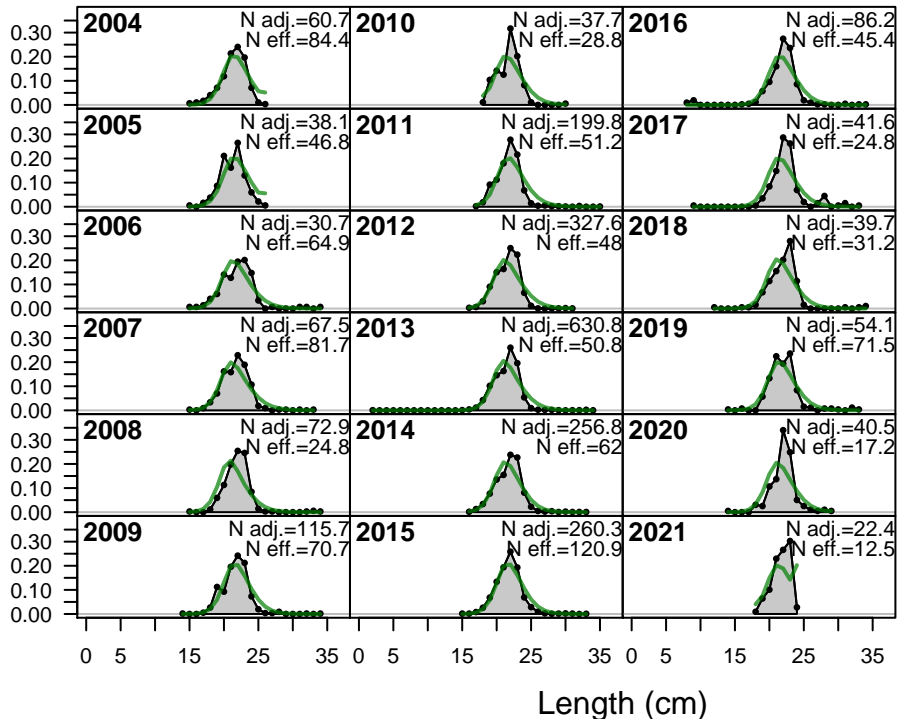


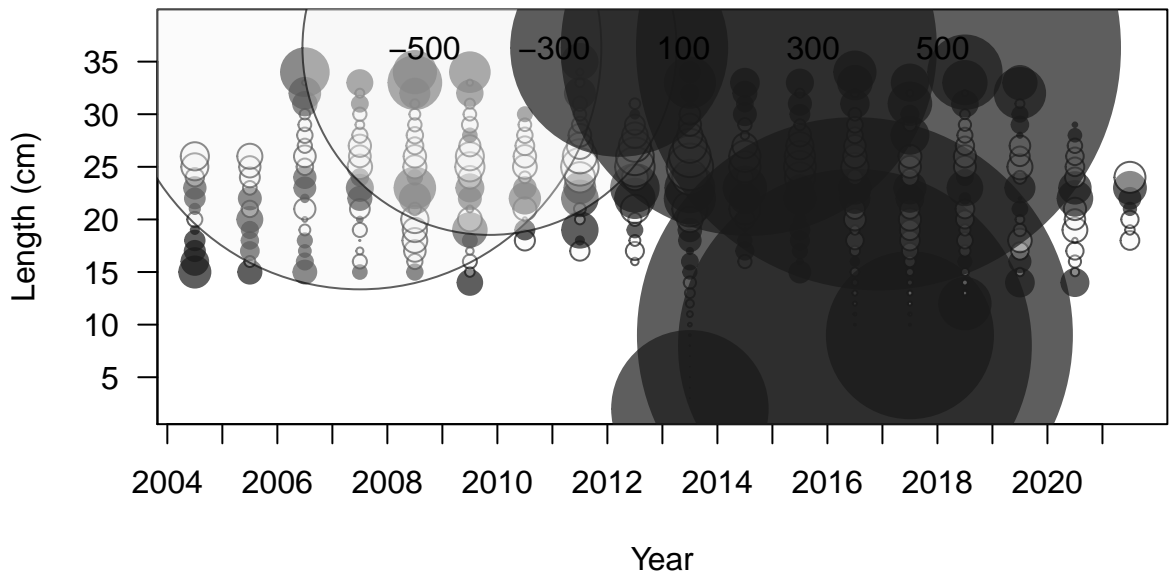
FISHERY (whole catch)



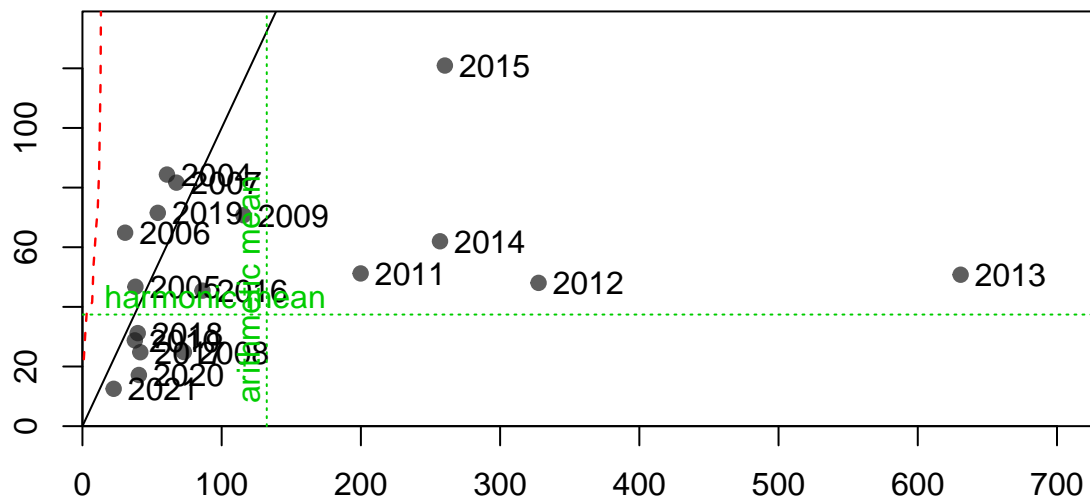






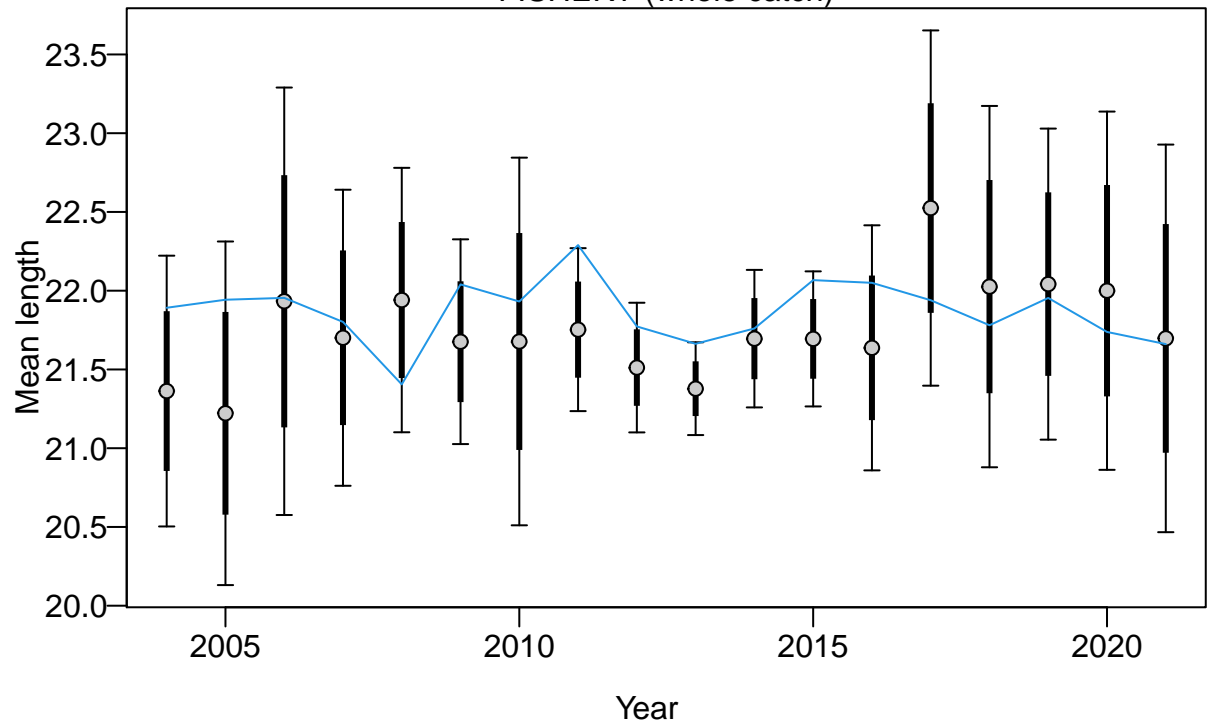


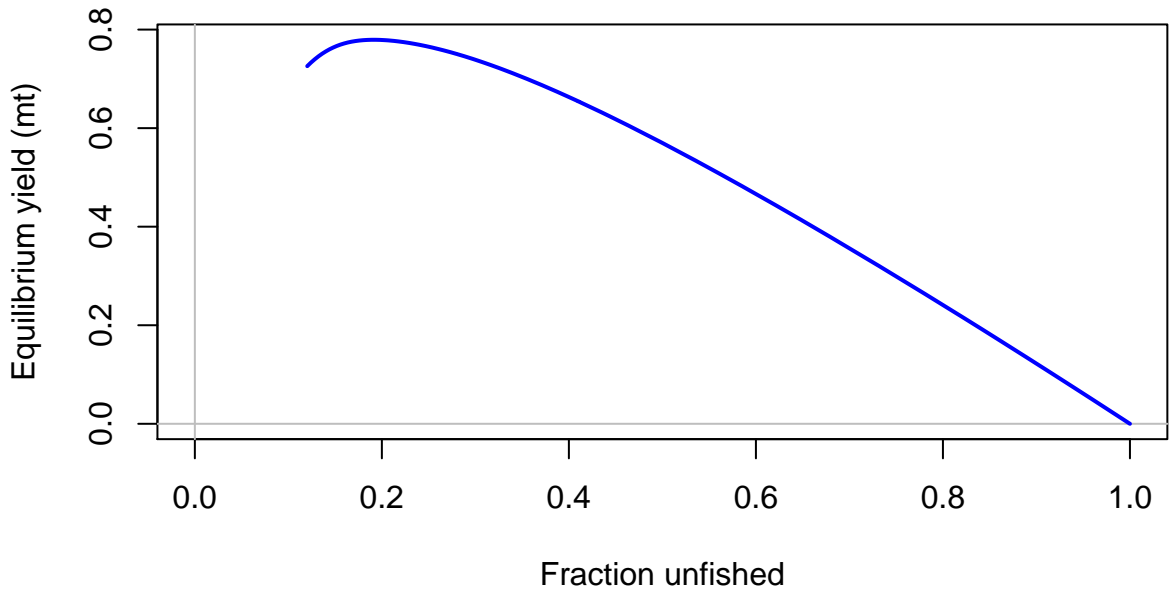
Effective sample size



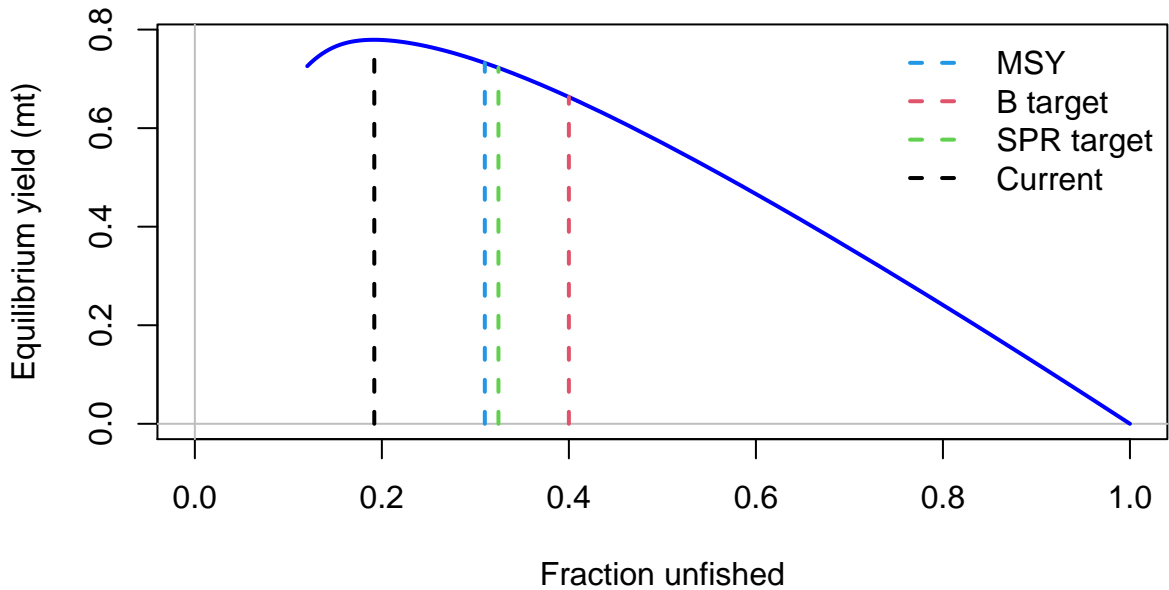
Observed sample size

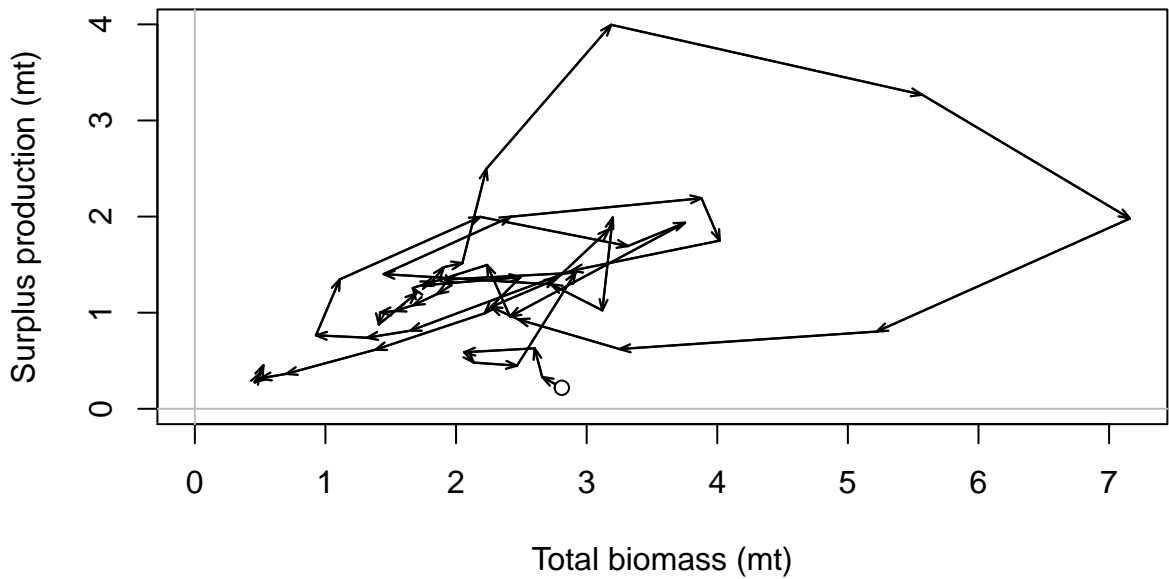
## FISHERY (whole catch)

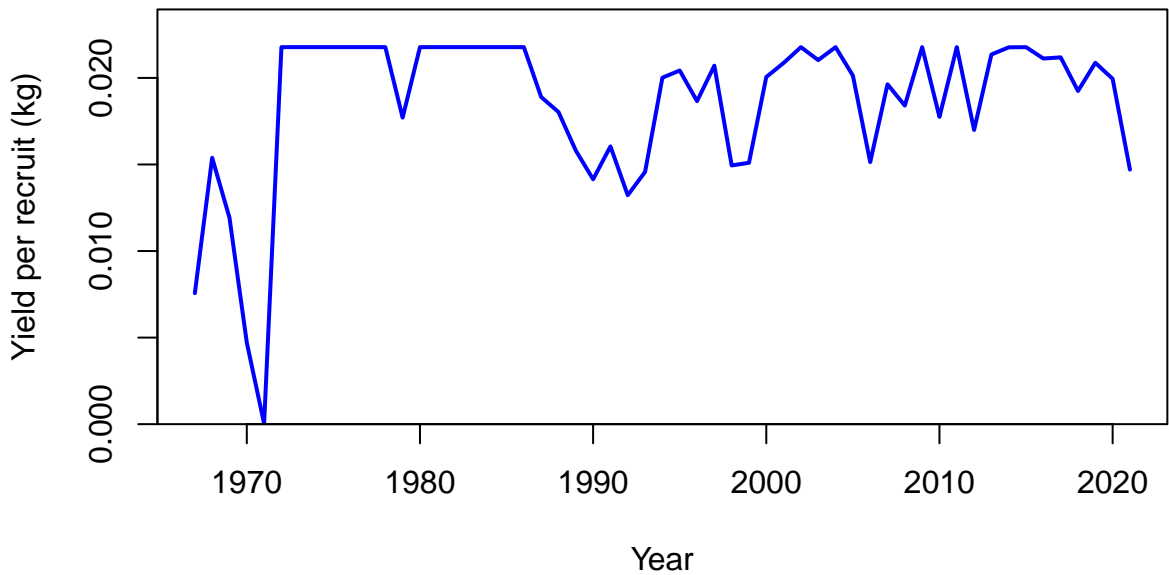




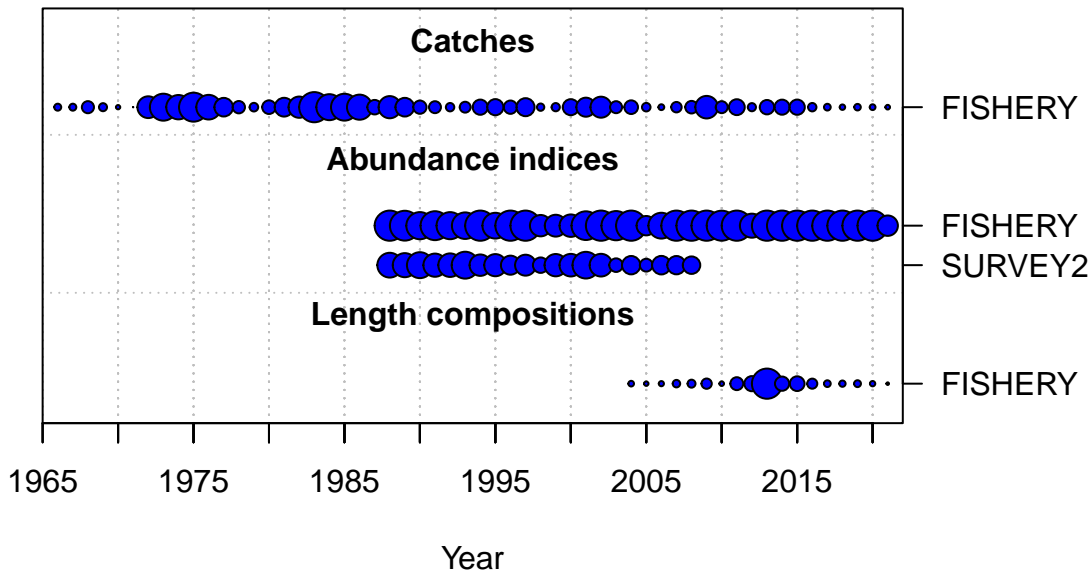




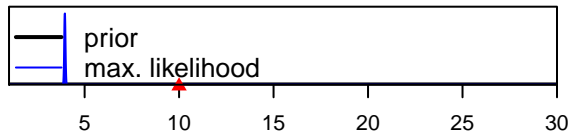




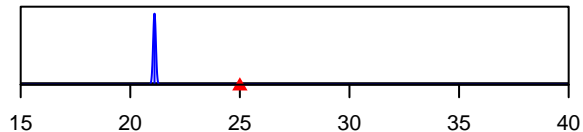




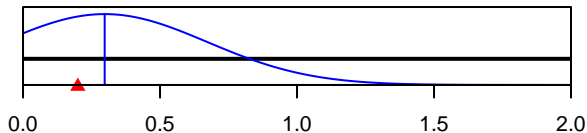
SR\_LN(R0)



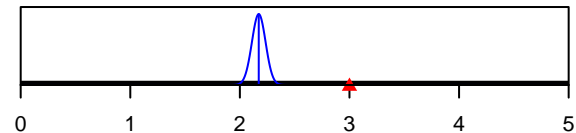
Size\_inflection\_FISHERY(1)



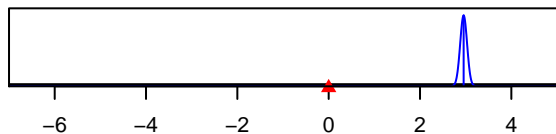
InitF\_seas\_1\_flt\_1FISHERY



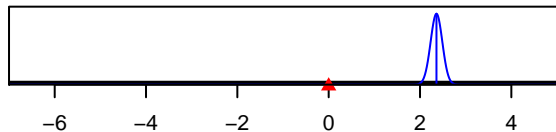
Size\_95%width\_FISHERY(1)



LnQ\_base\_FISHERY(1)



LnQ\_base\_SURVEY2(2)



Parameter value