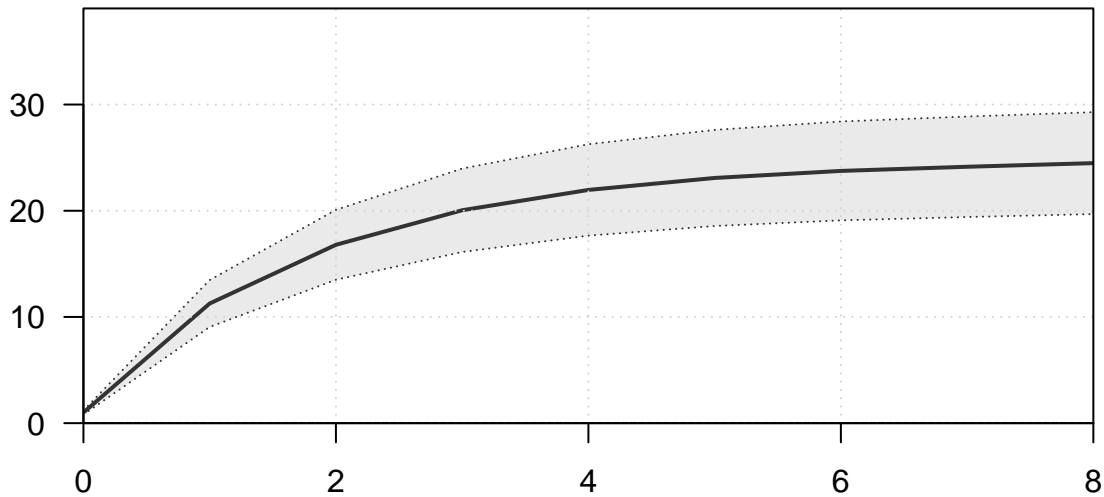
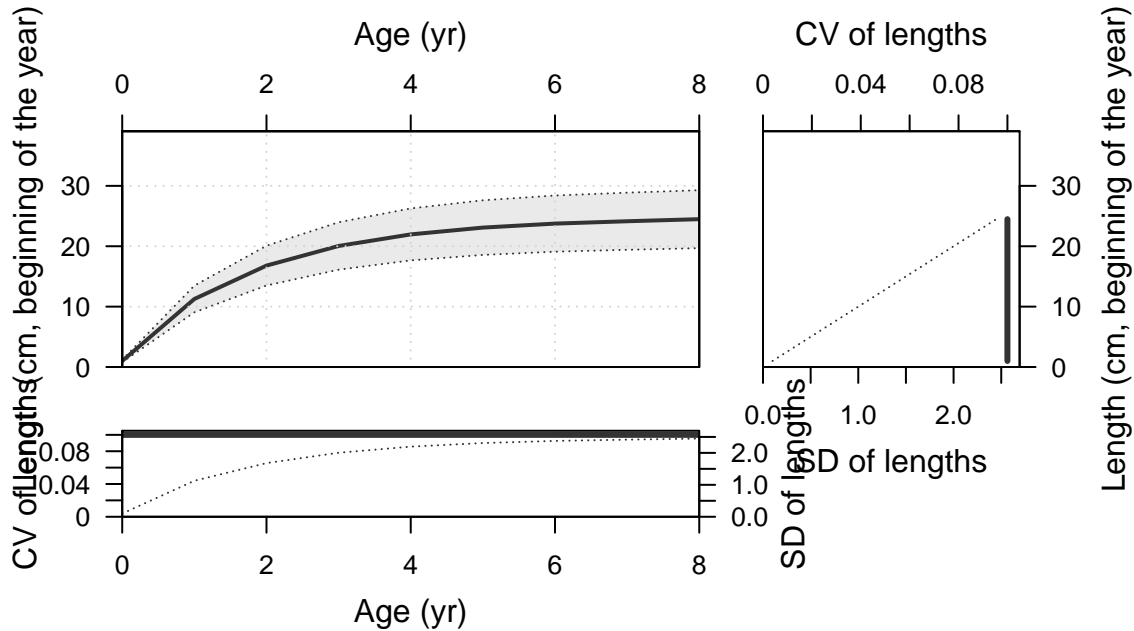


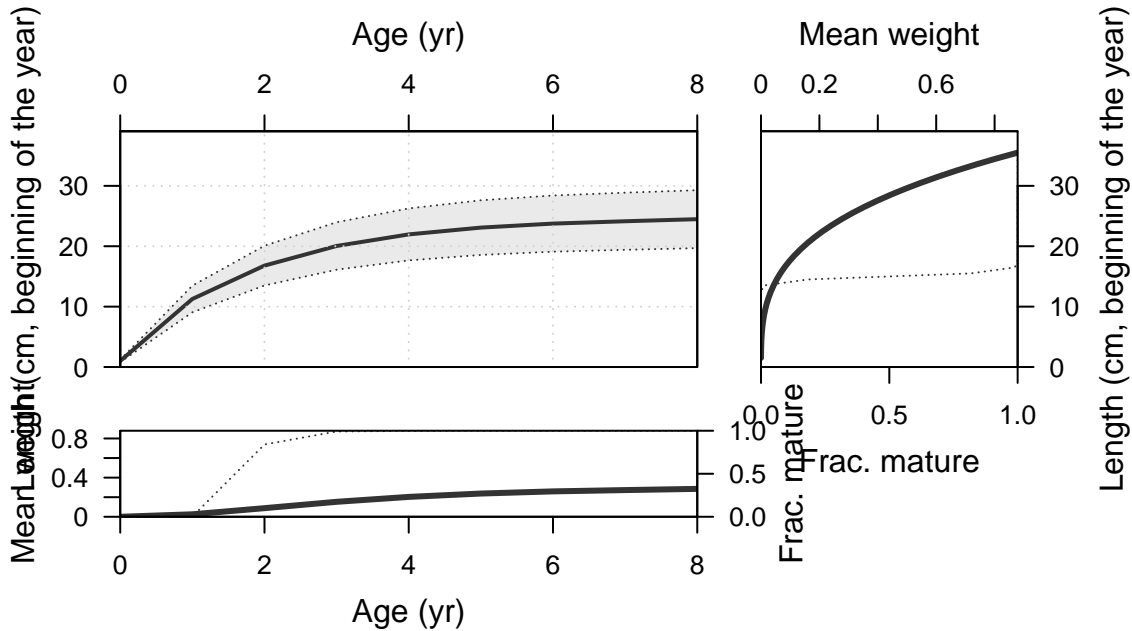
Plots created using the 'r4ss' package in R  
Stock Synthesis version: 3.30.19.0  
StartTime: Thu Jul 14 16:48:25 2022  
Data\_File: data.ss  
Control\_File: control.ss

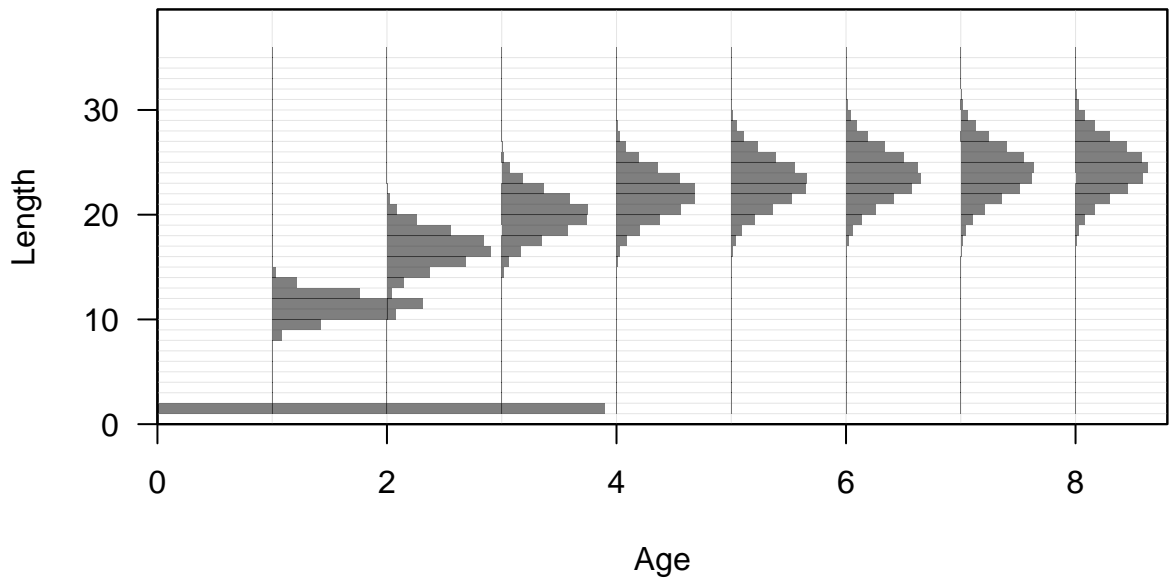
Length (cm, beginning of the year)

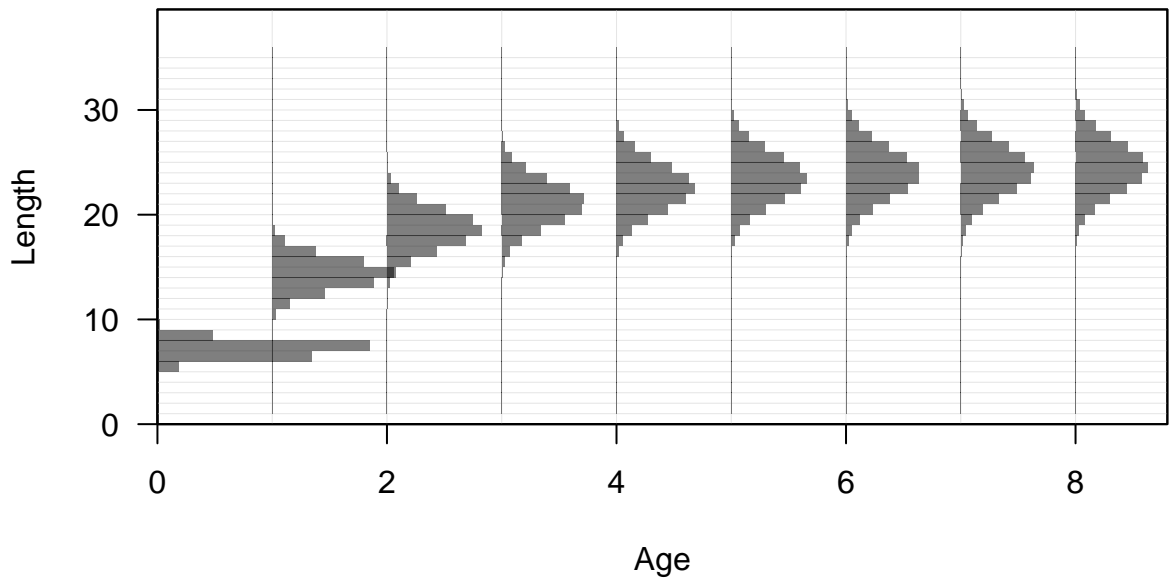


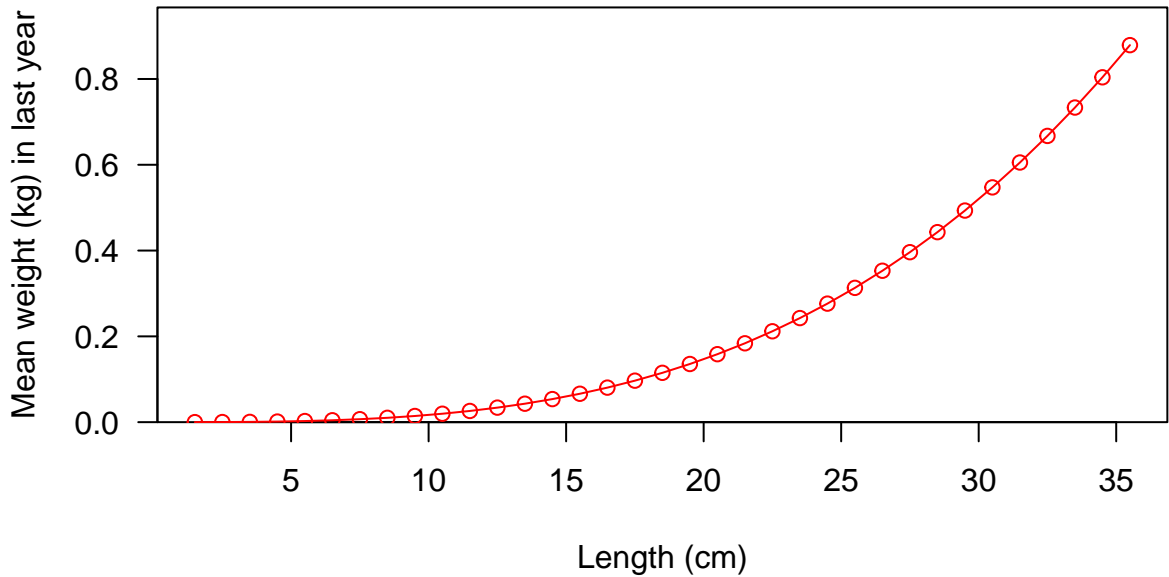
Age (yr)

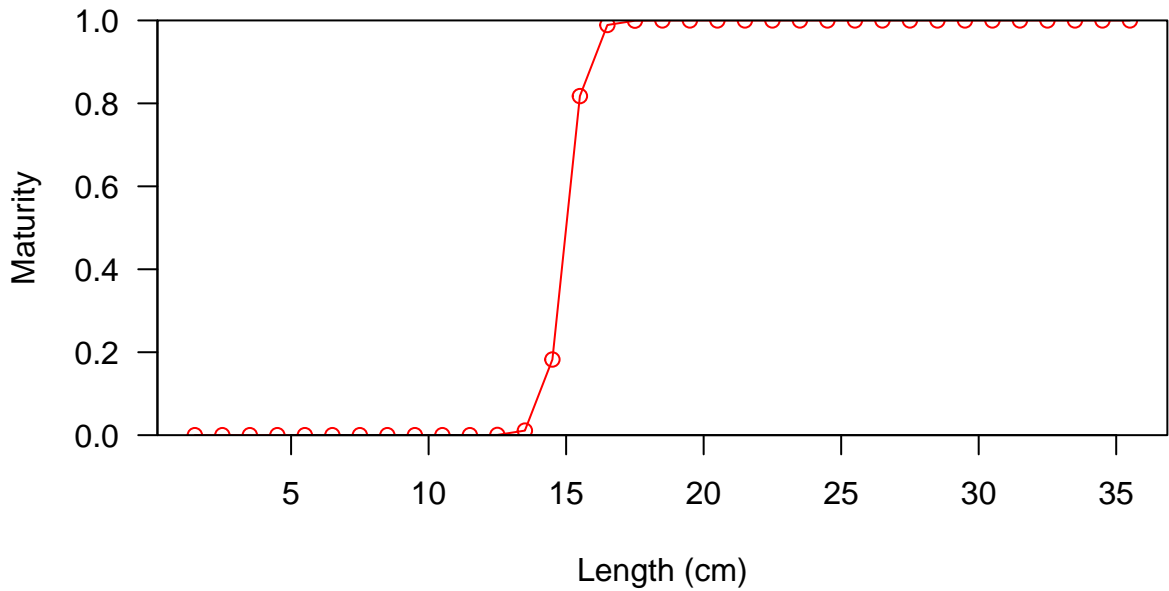




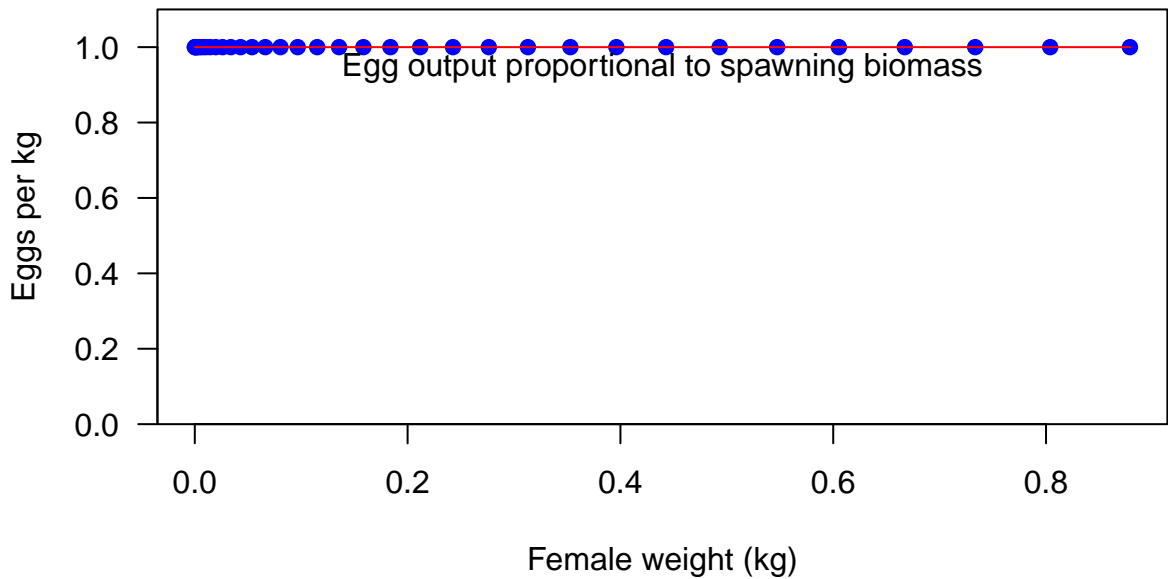


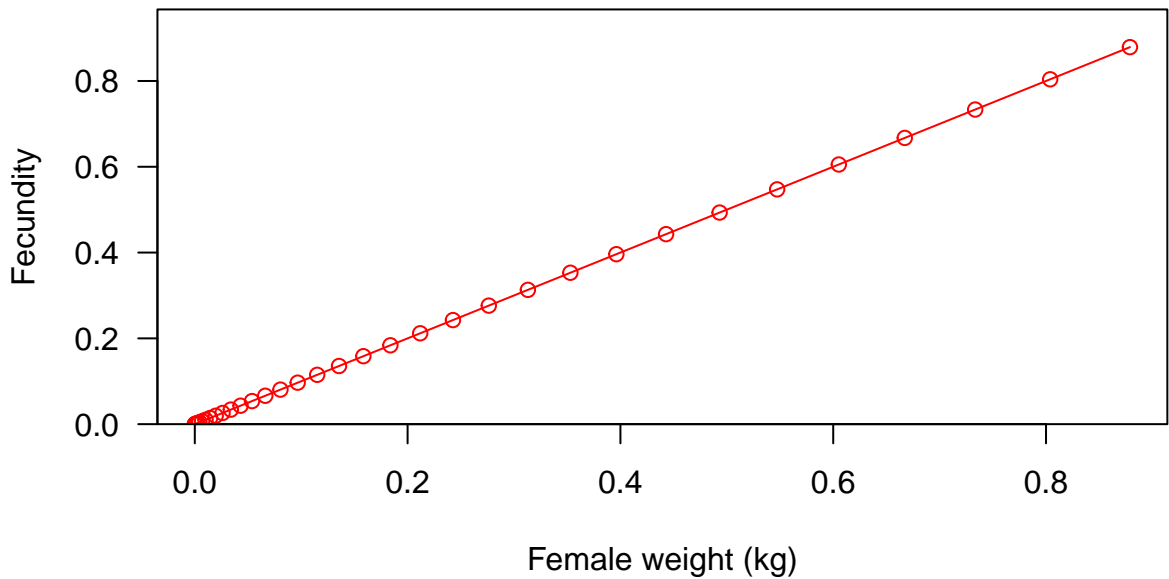


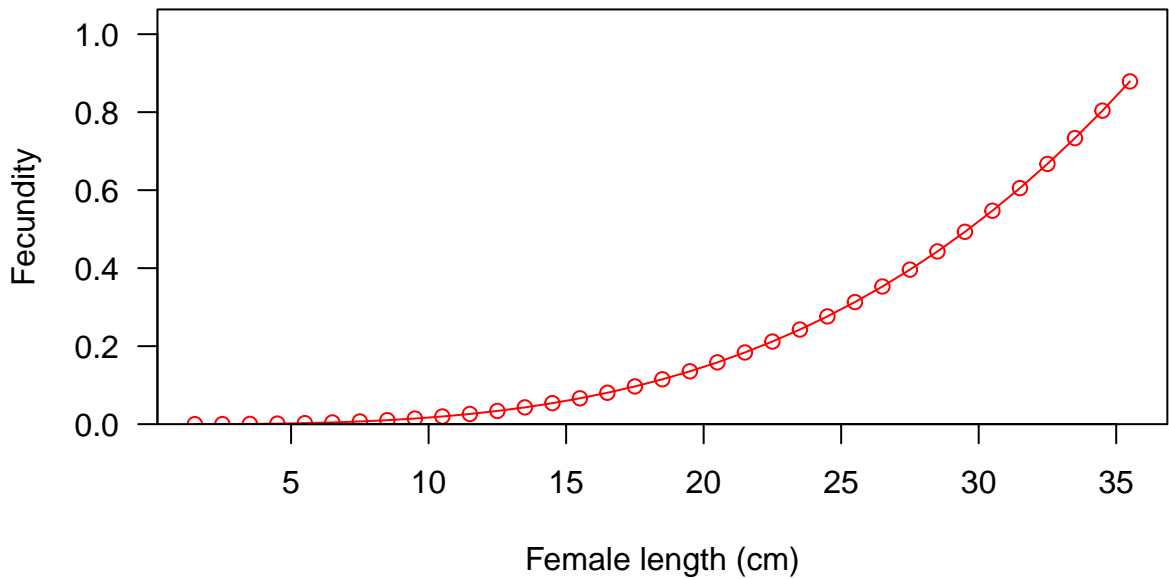


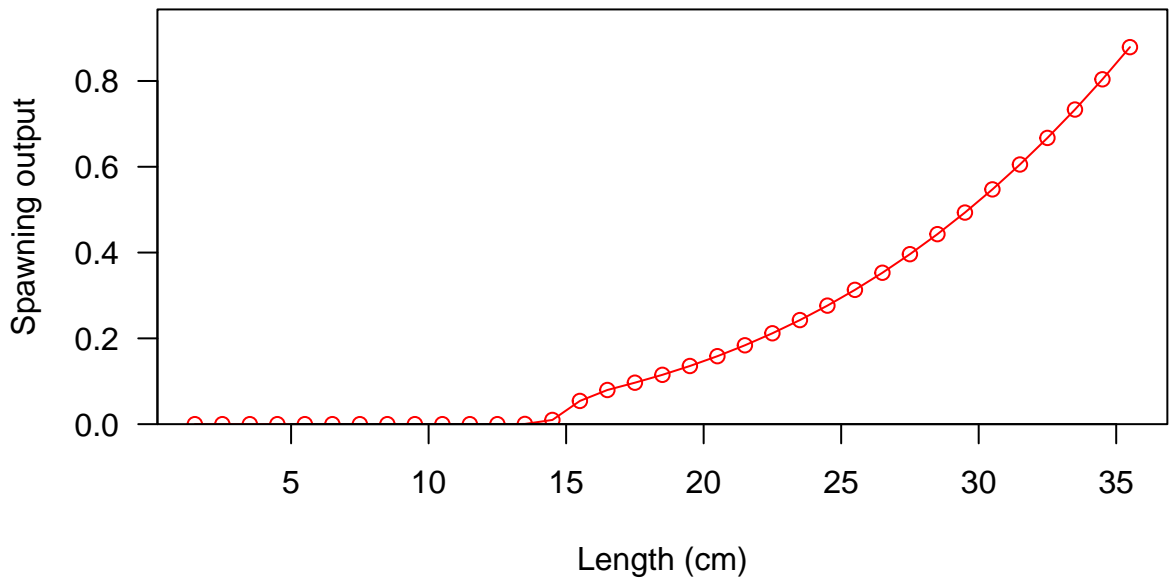


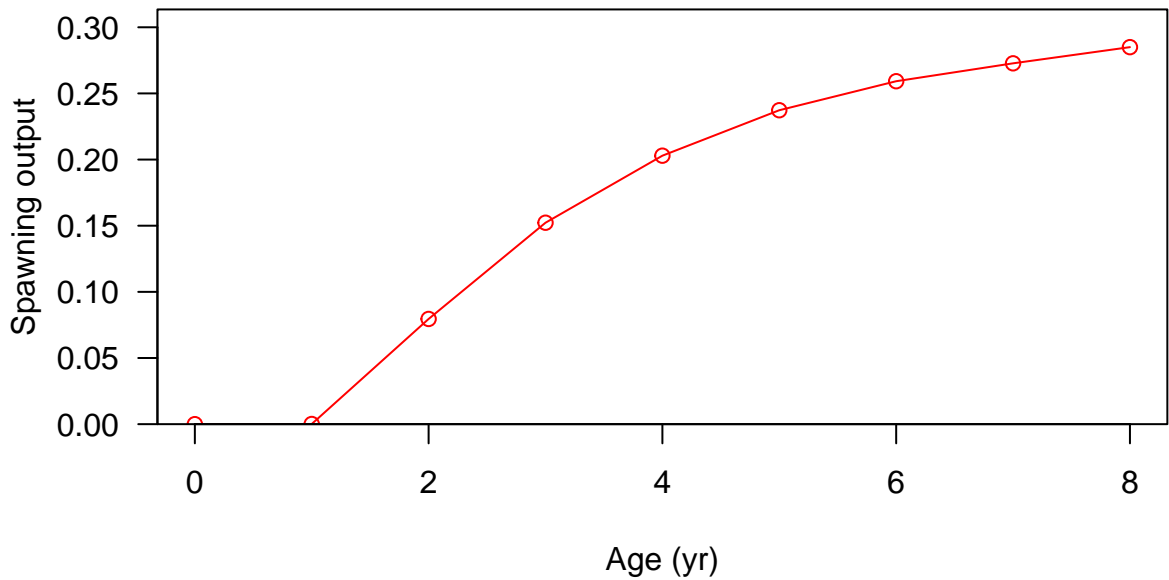




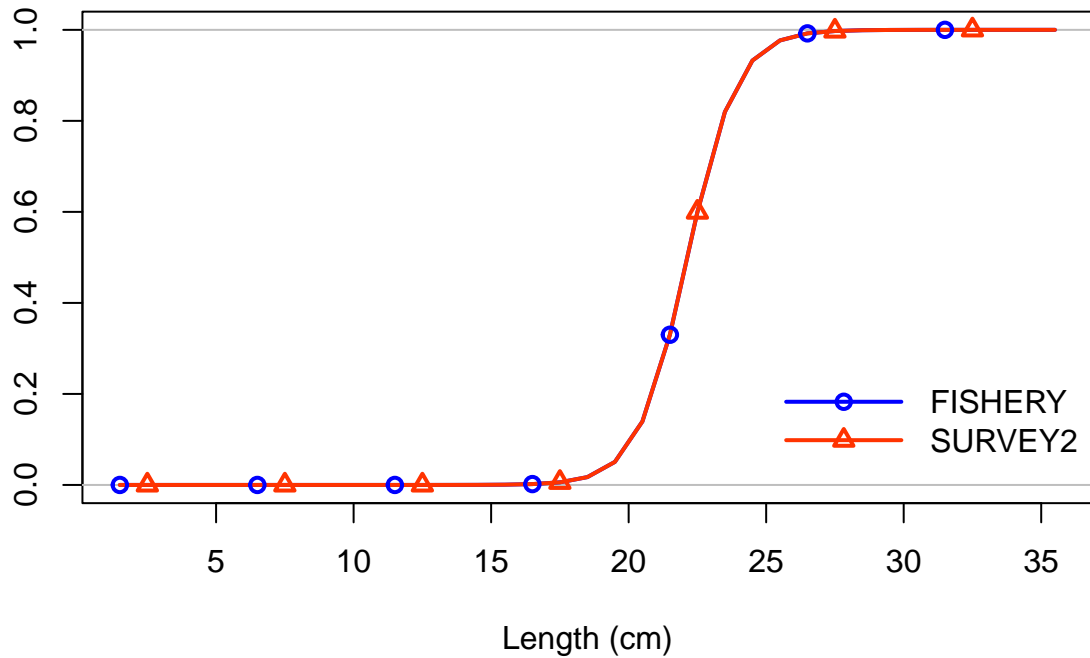




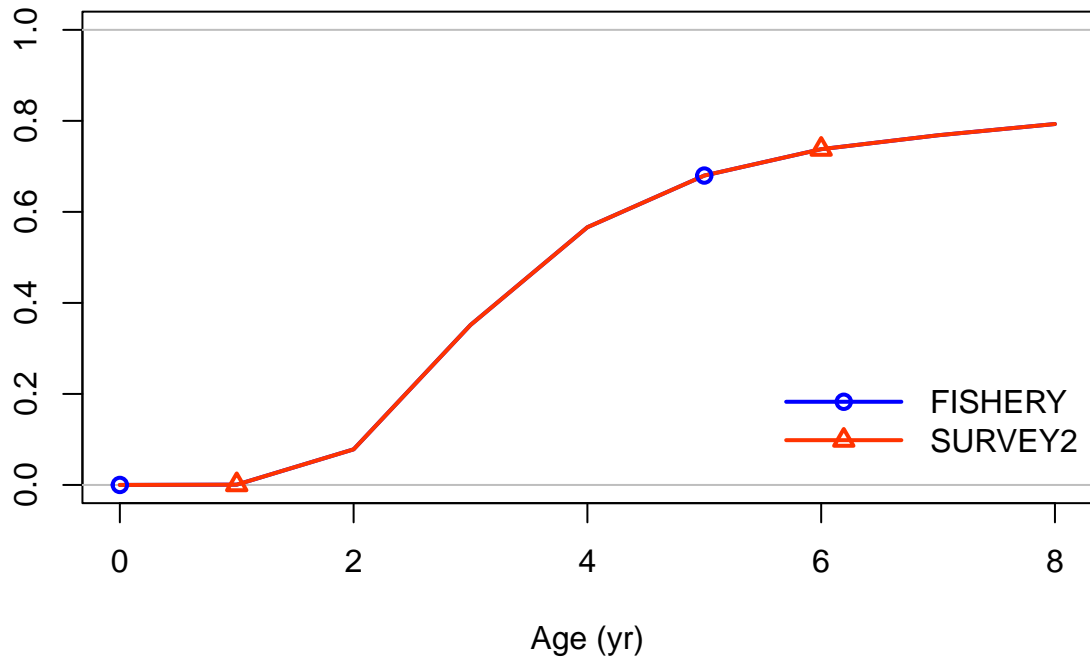




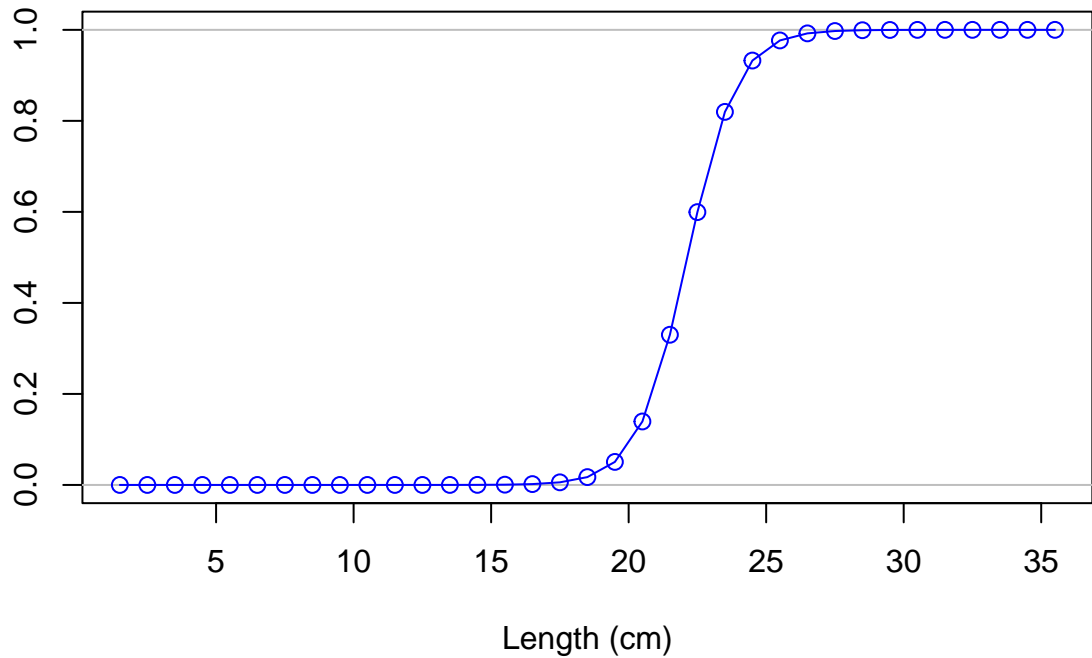
Selectivity



Selectivity

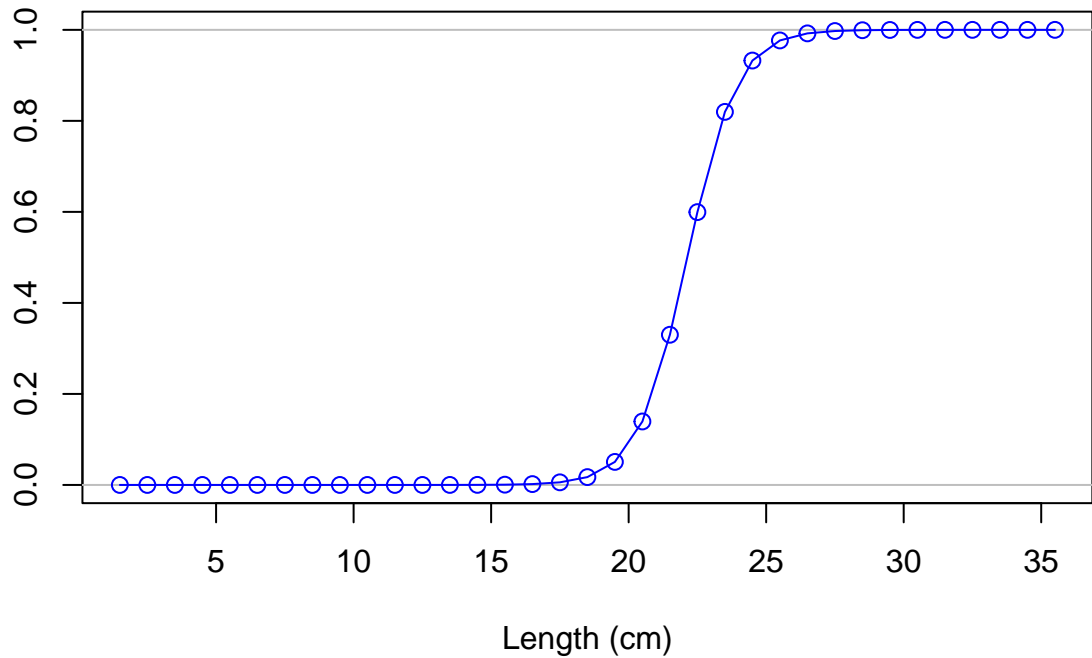


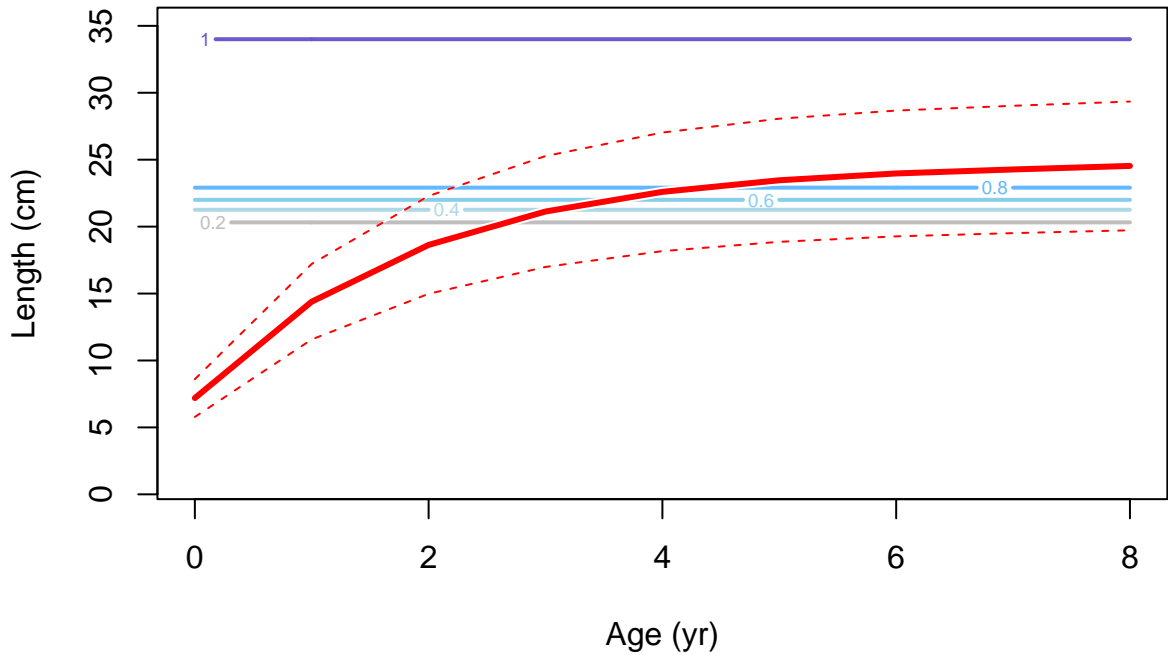
Selectivity

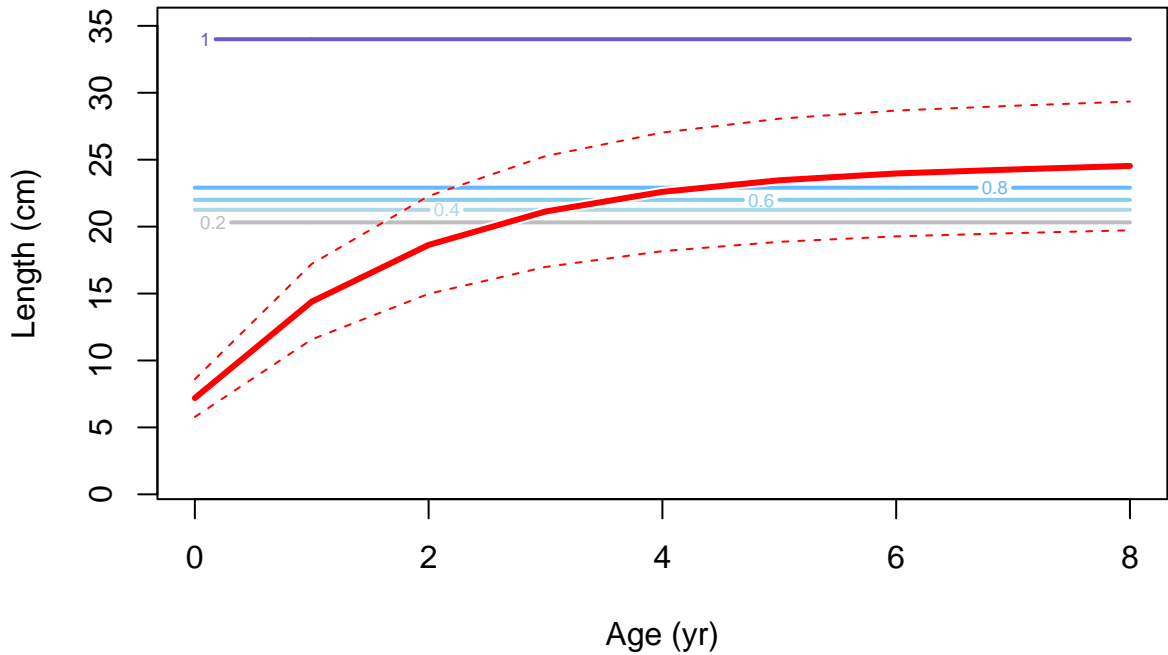




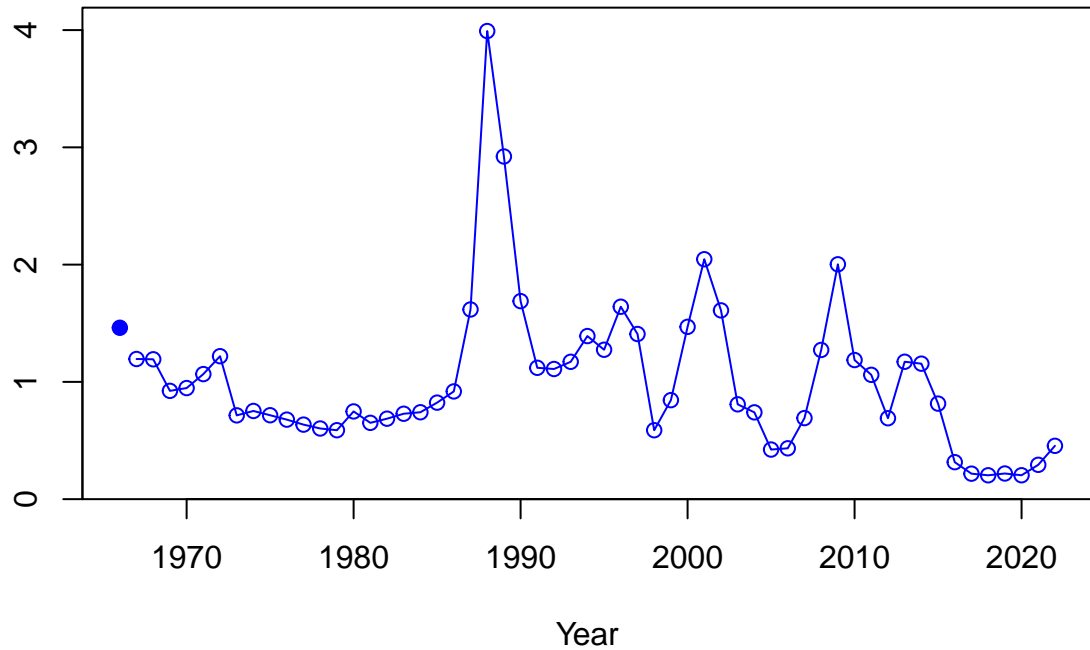
Selectivity



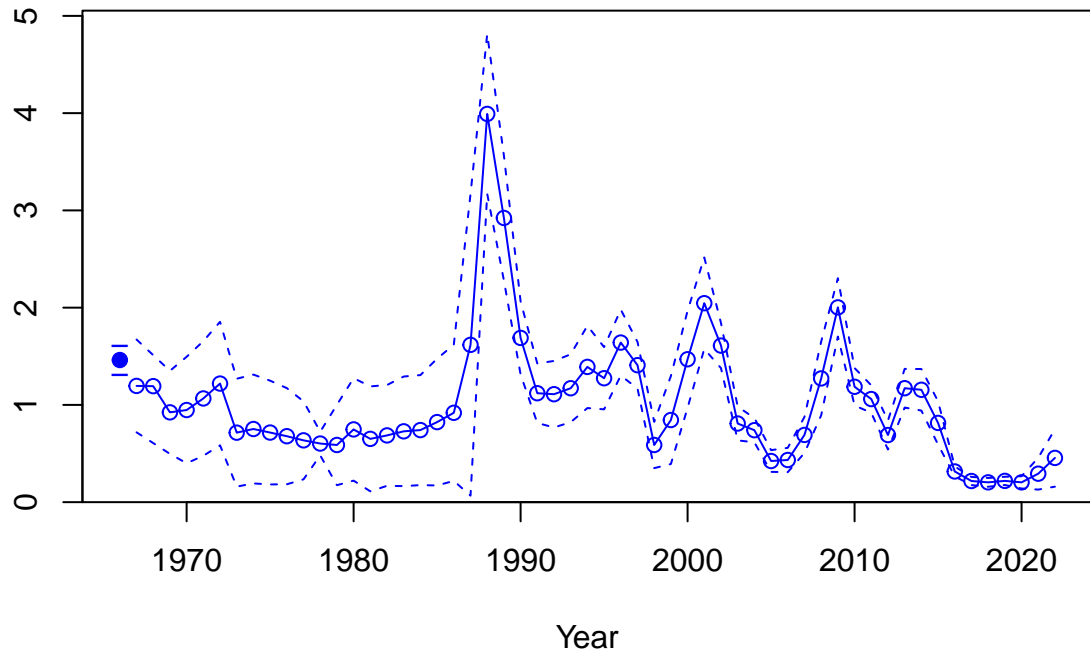




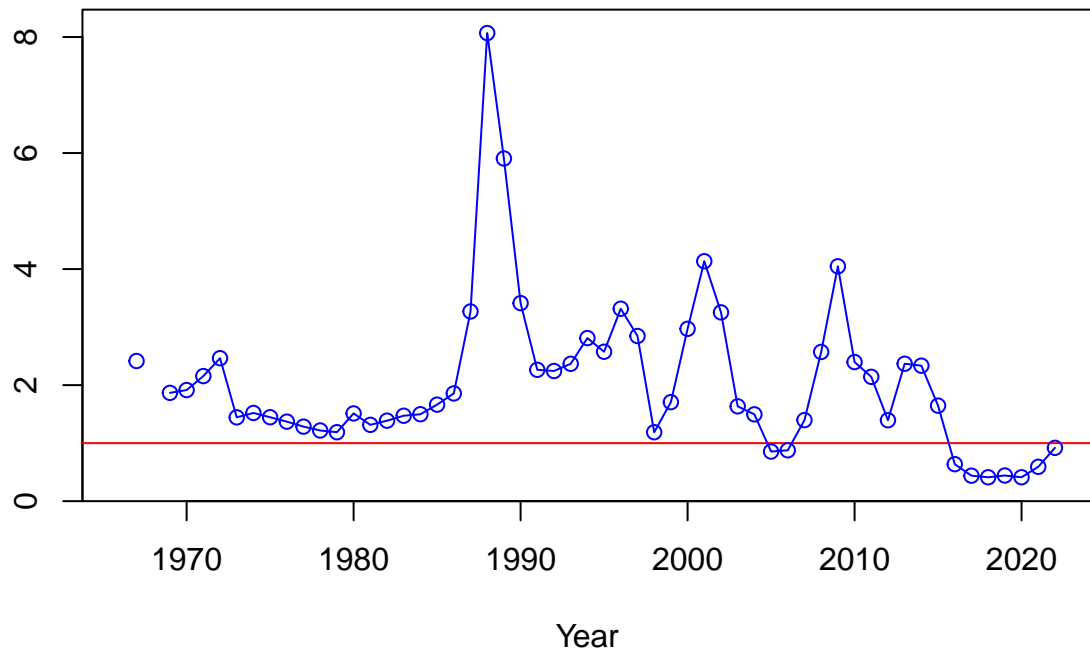
Spawning biomass (mt)



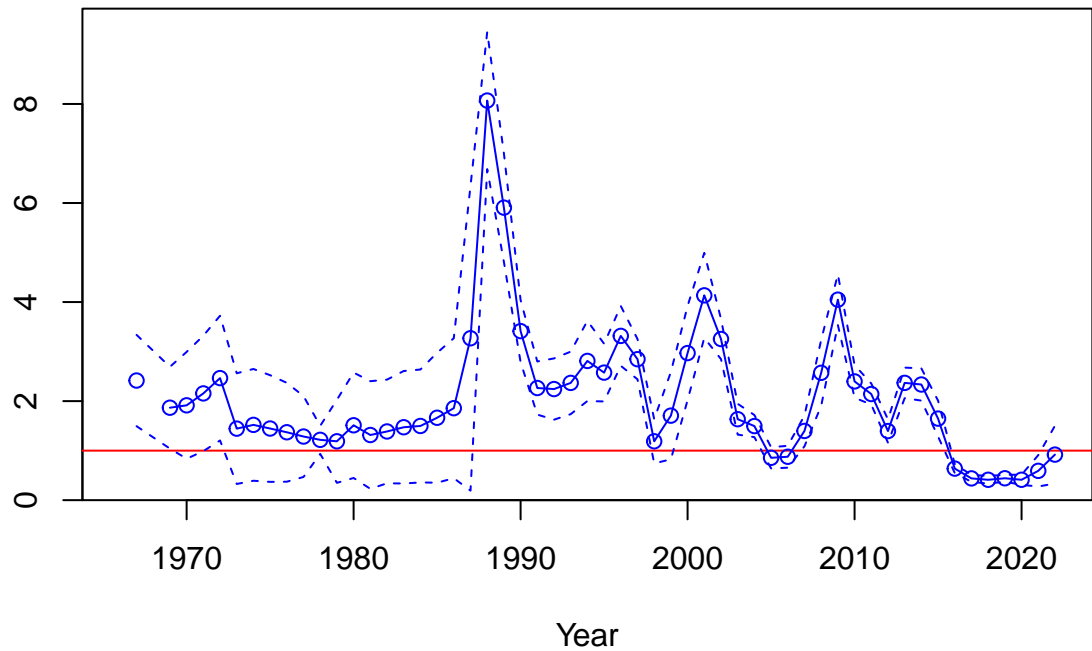
Spawning biomass (mt)

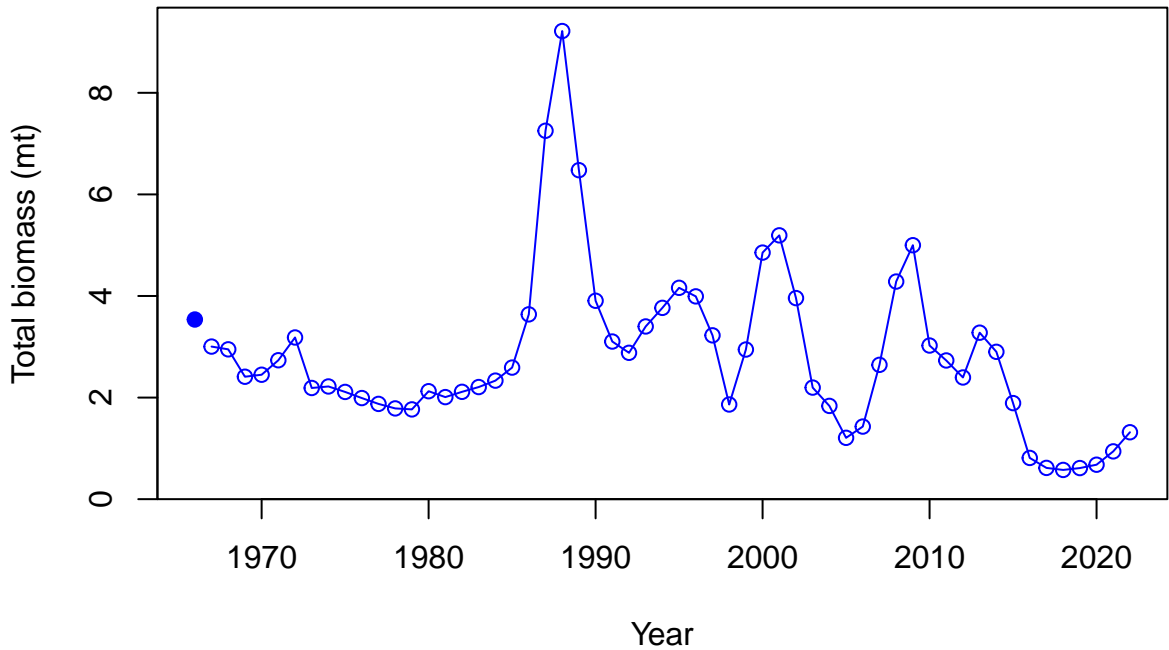


Relative spawning biomass:  $B/B_{MSY}$



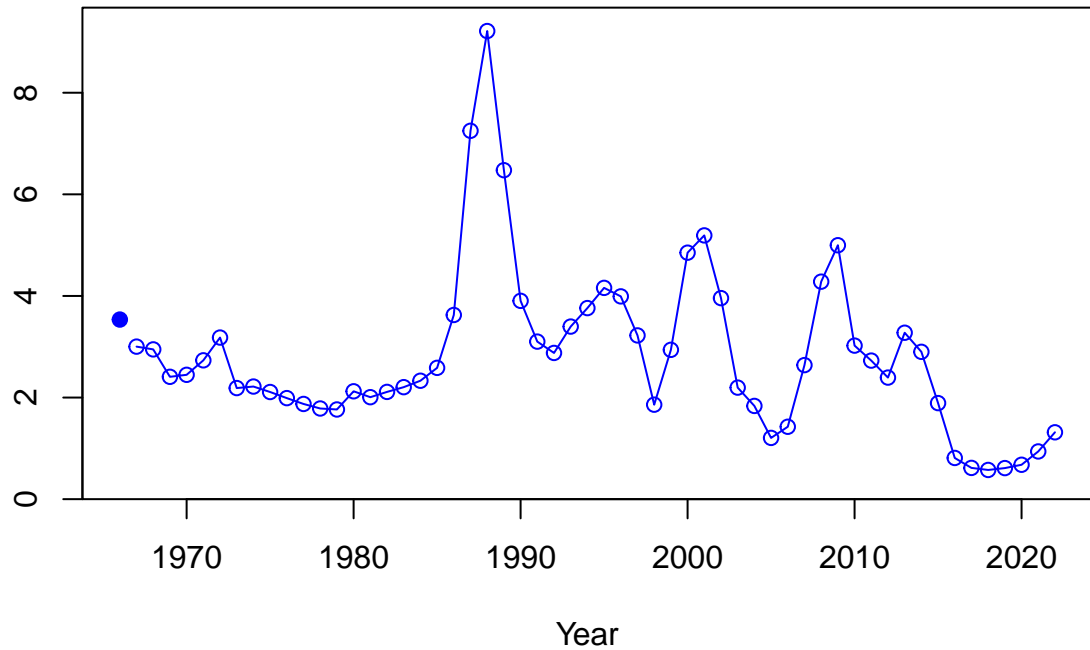
Relative spawning biomass:  $B/B_{MSY}$

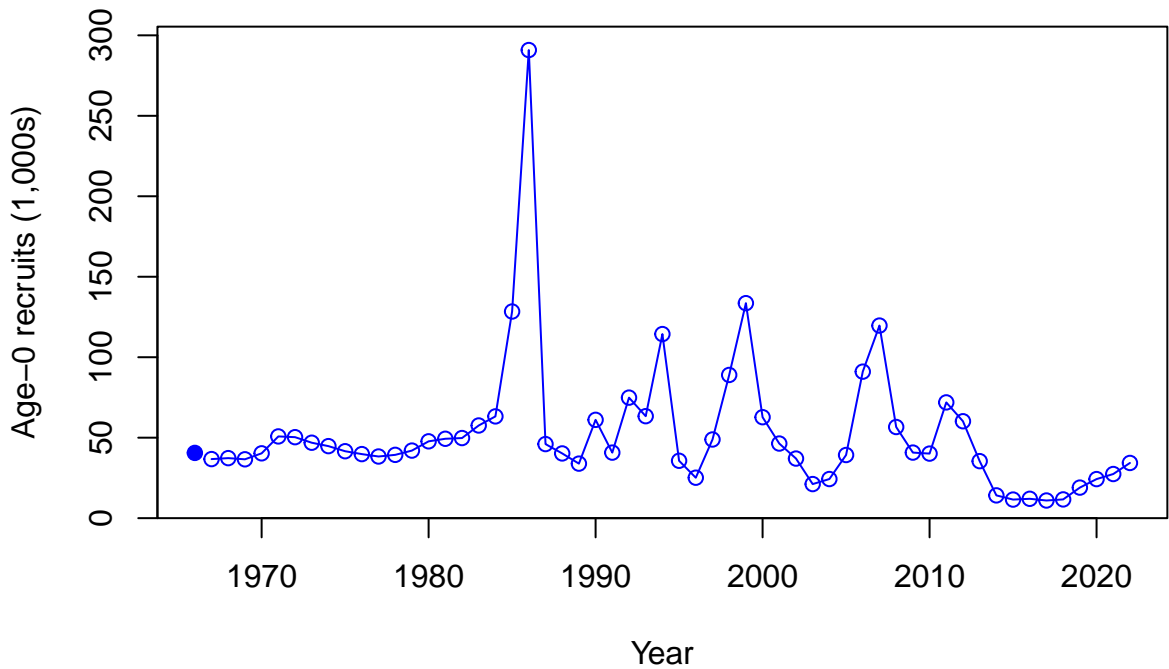


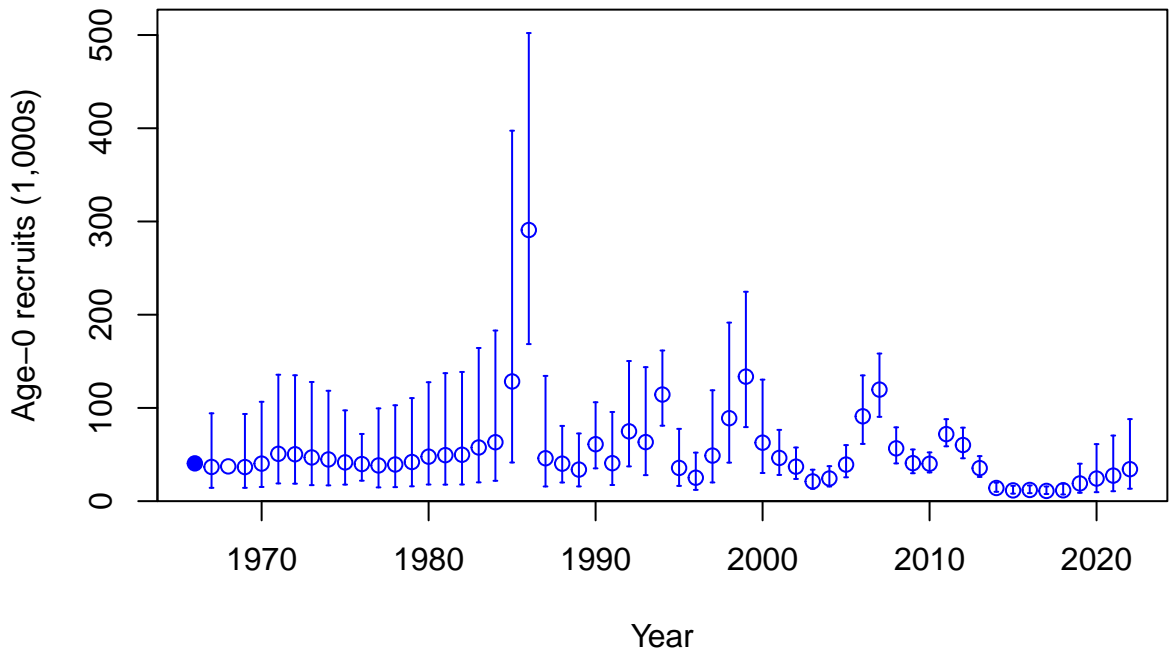




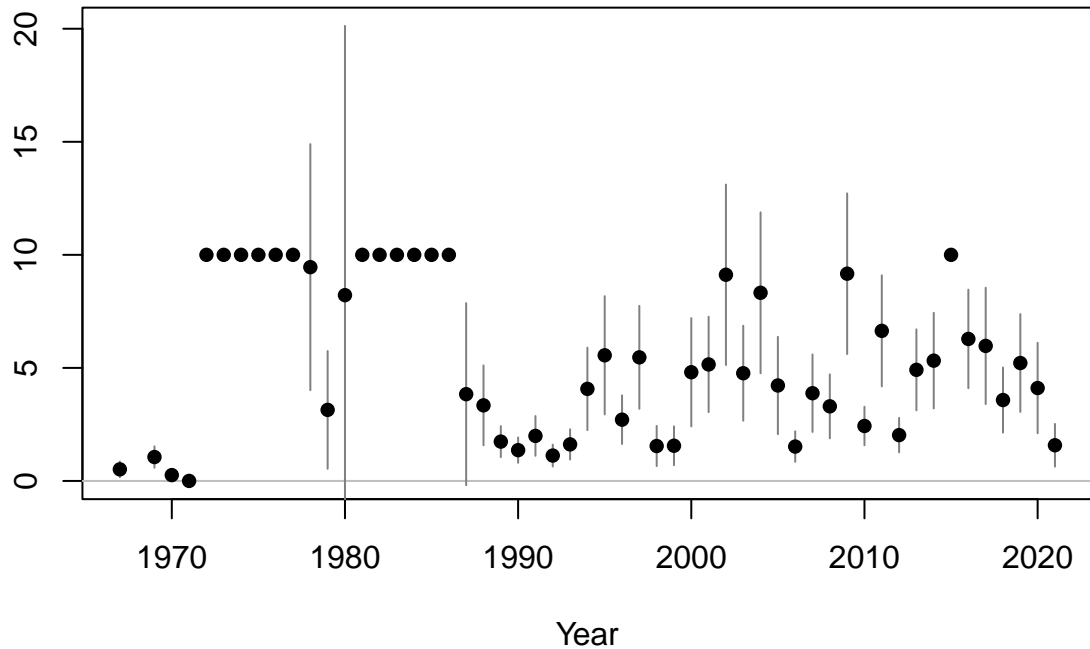
Summary biomass (mt)



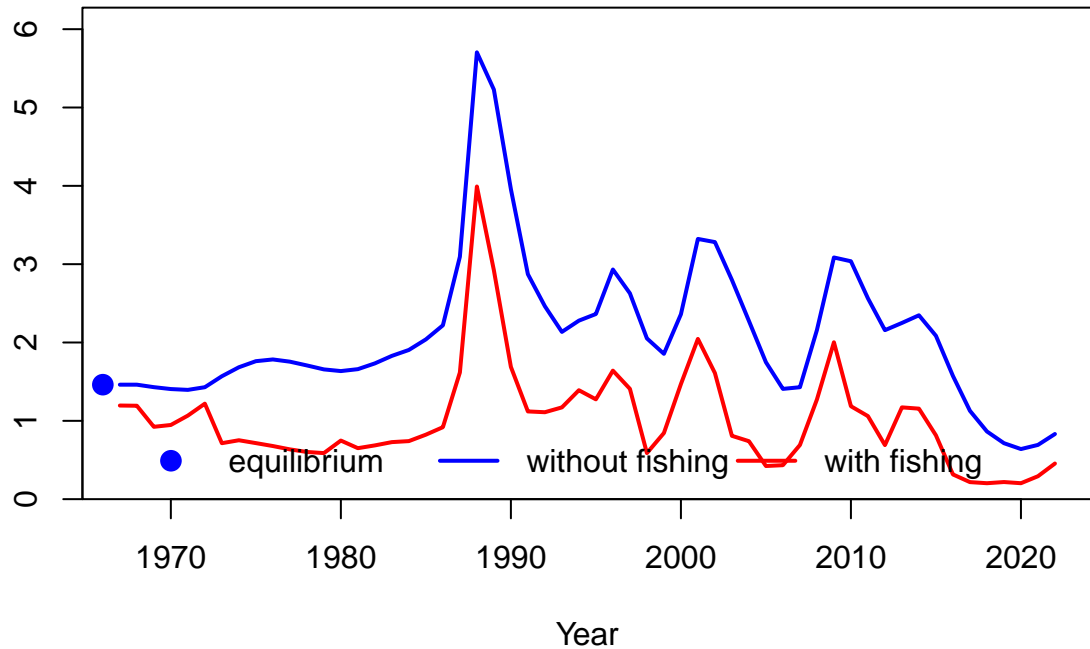




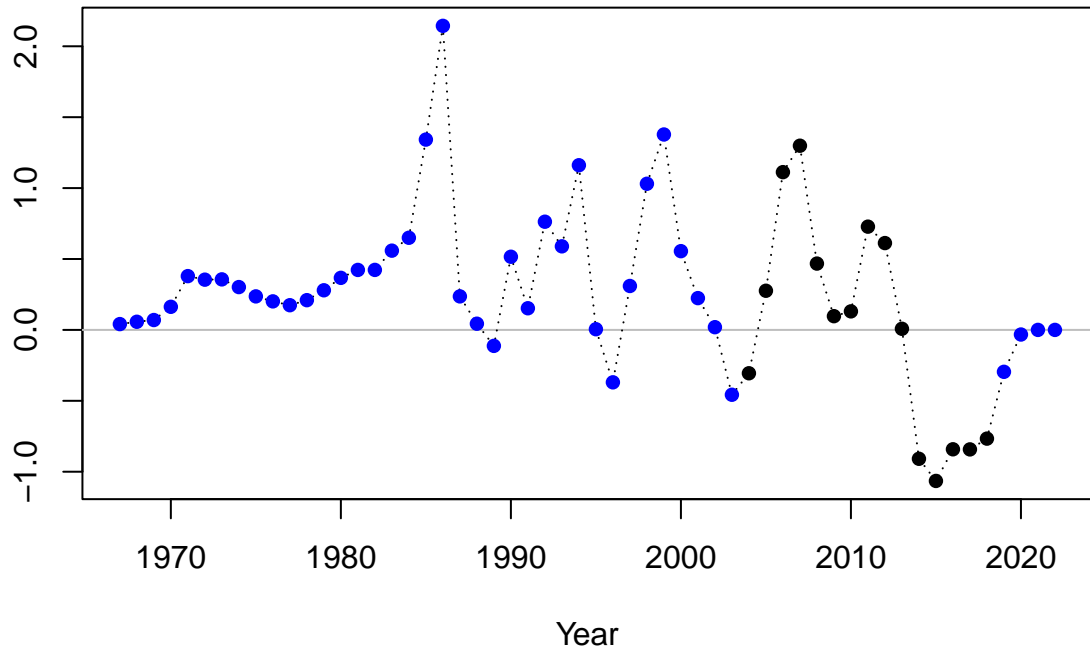
Summary Fishing Mortality



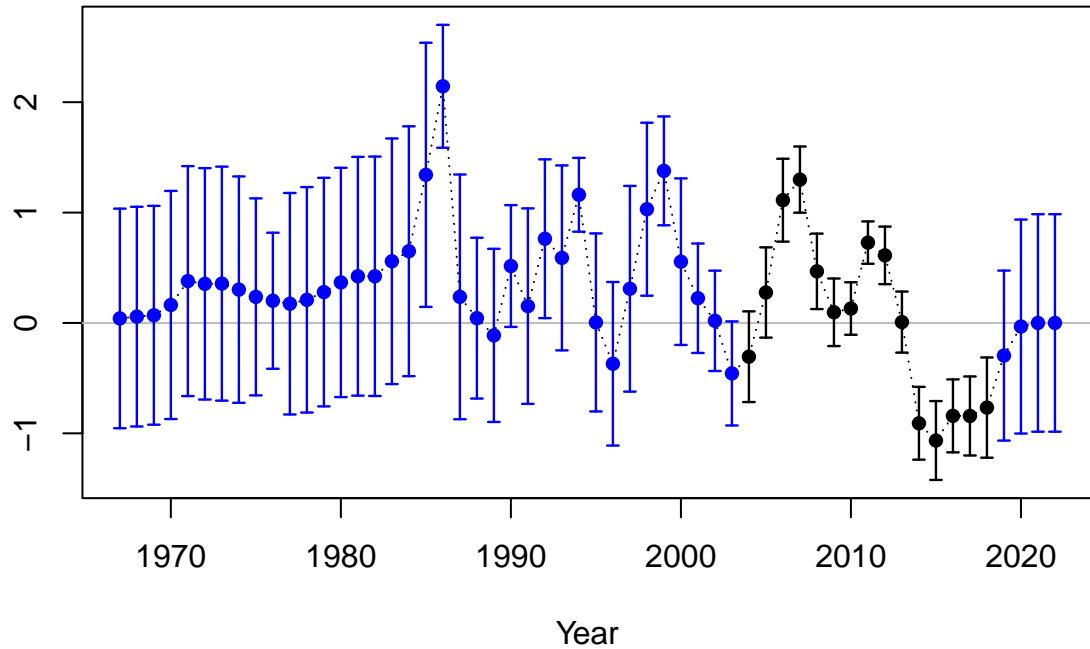
Spawning biomass (mt)



Log recruitment deviation

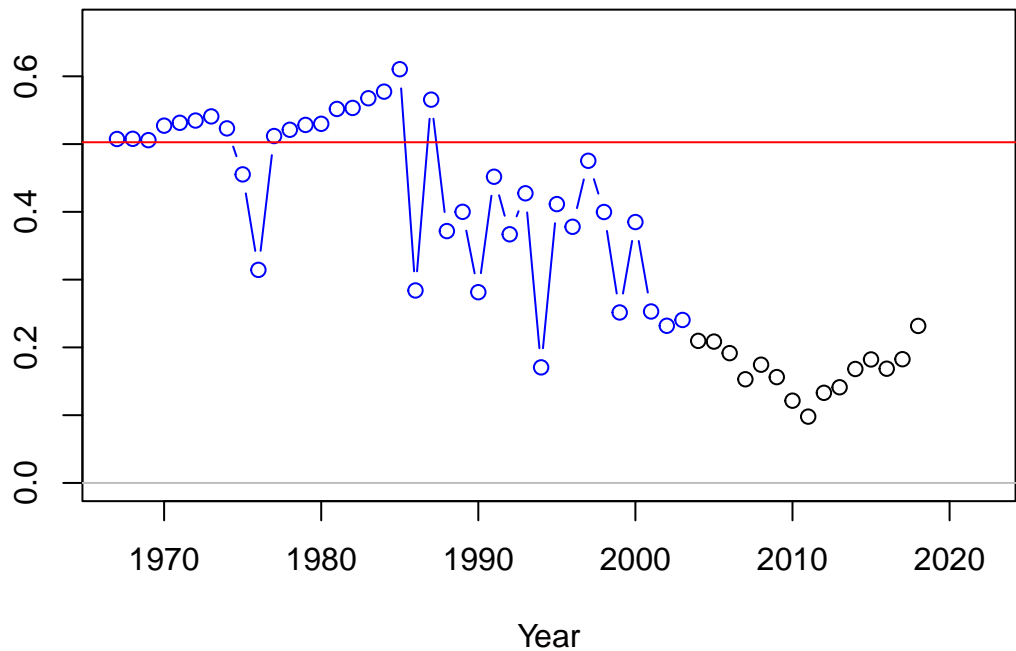


Log recruitment deviation

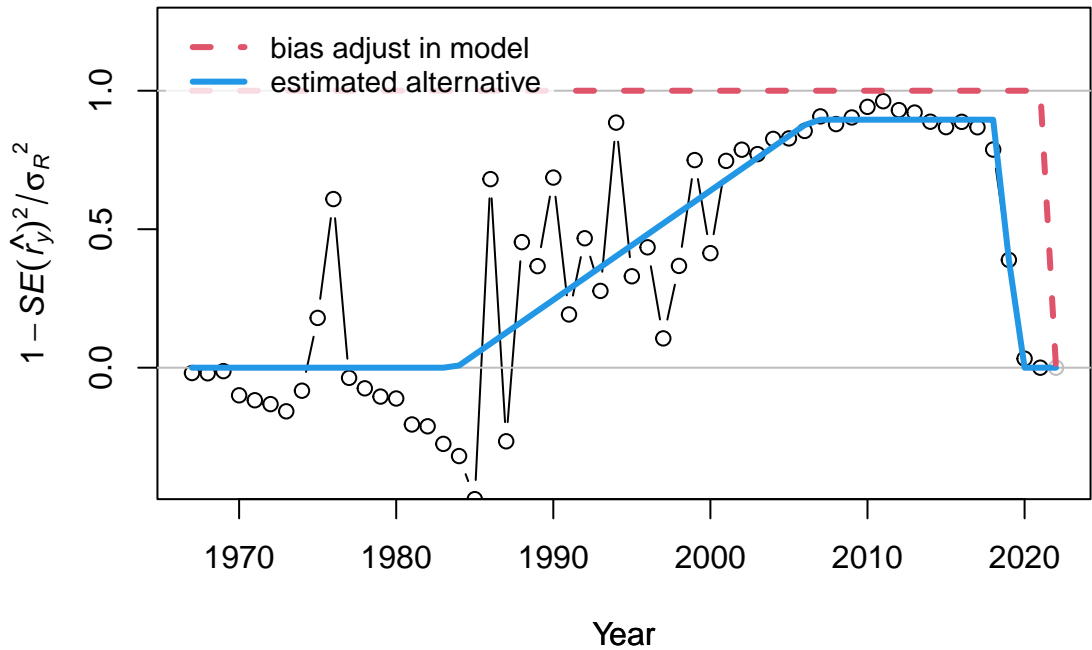


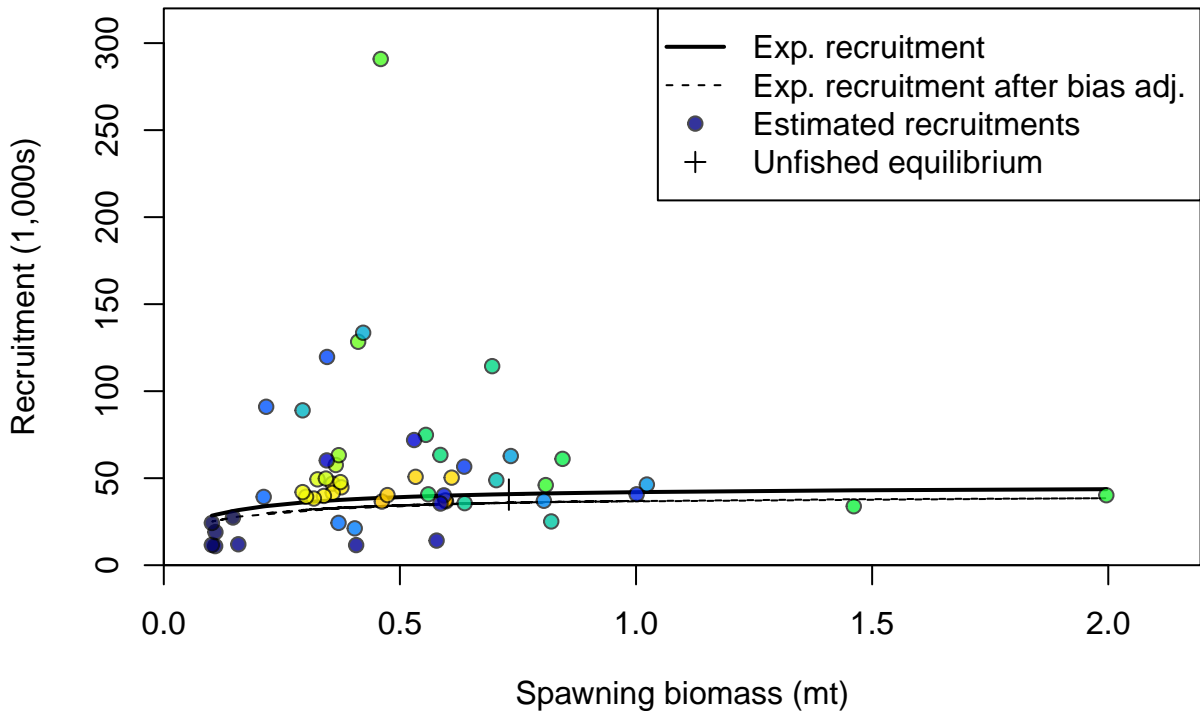
## Recruitment deviation variance

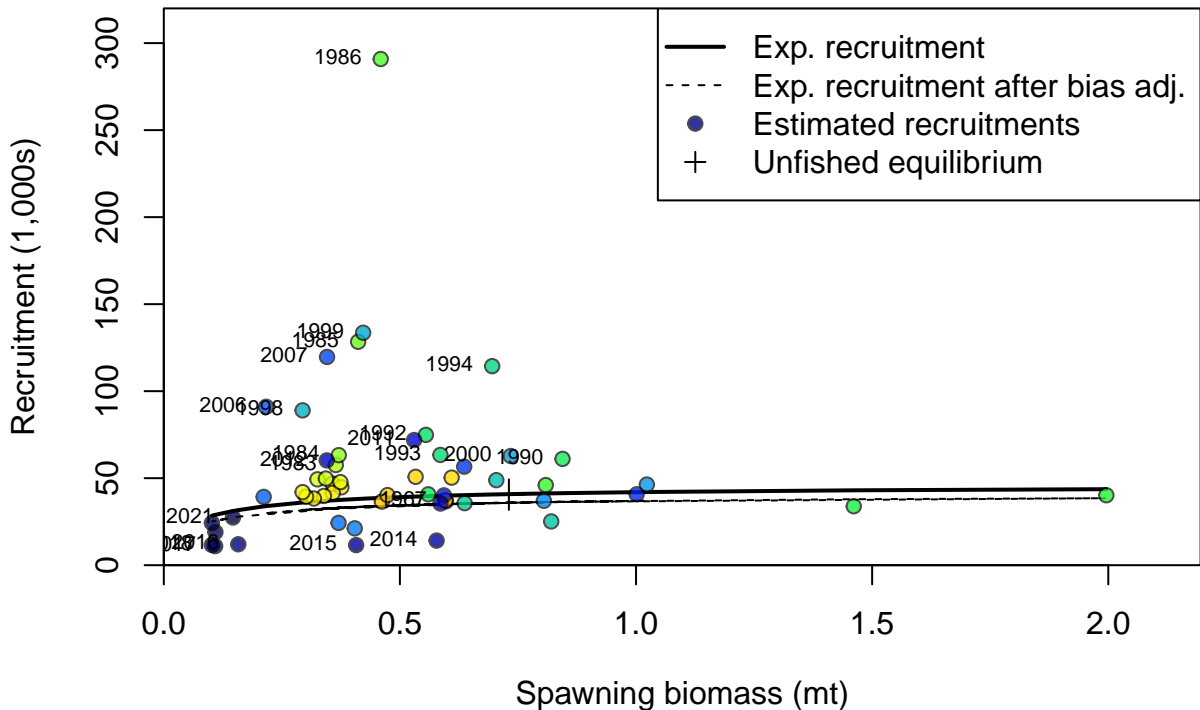
Asymptotic standard error estimate



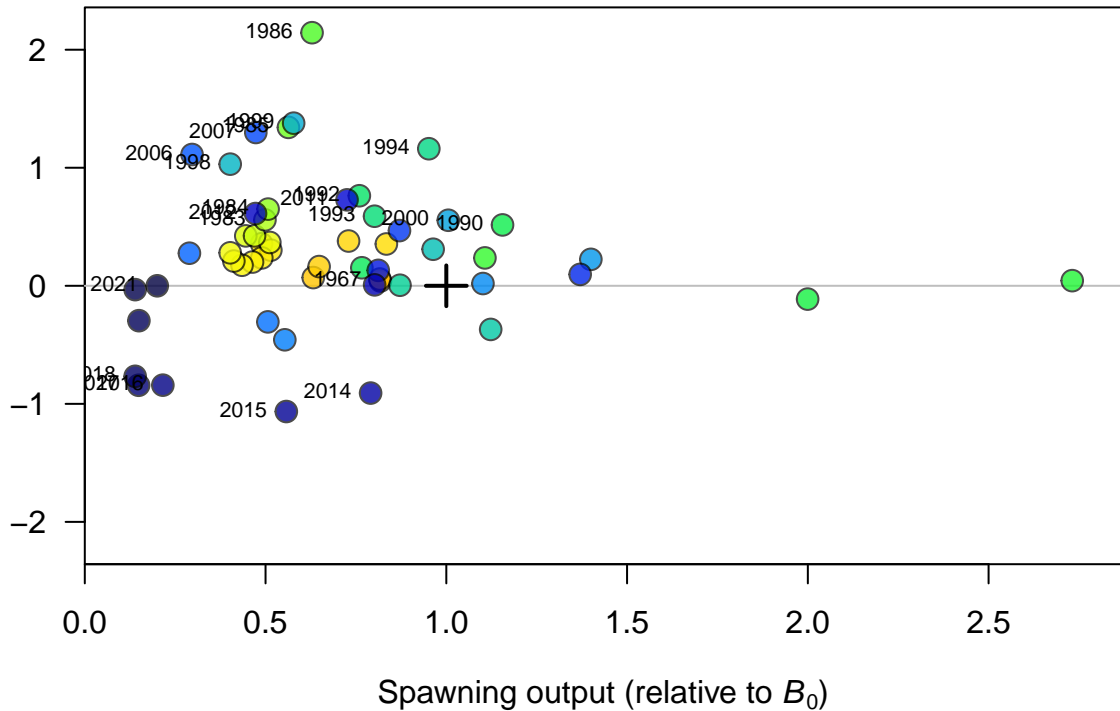


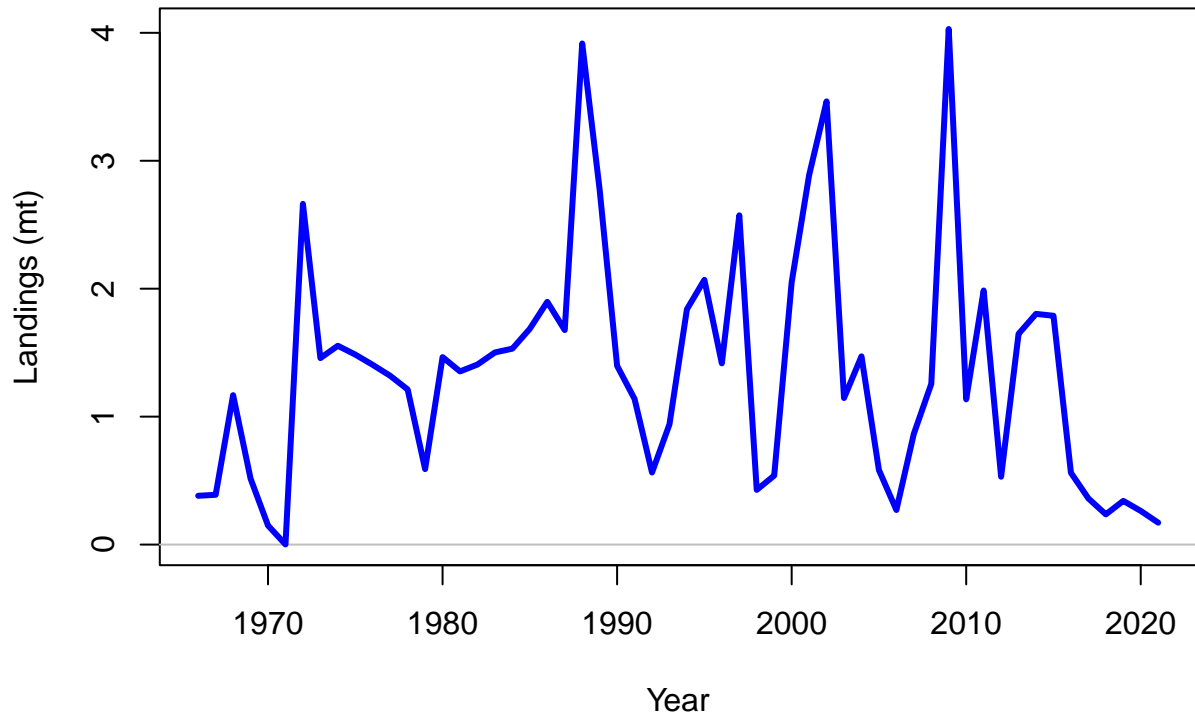


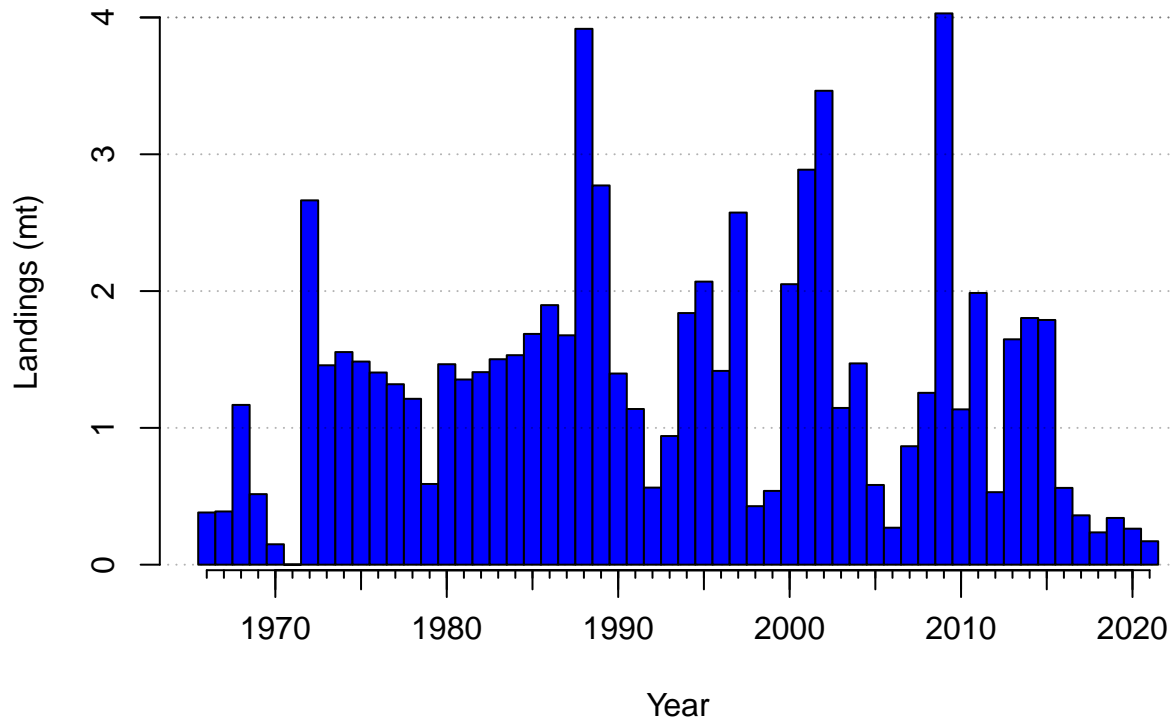




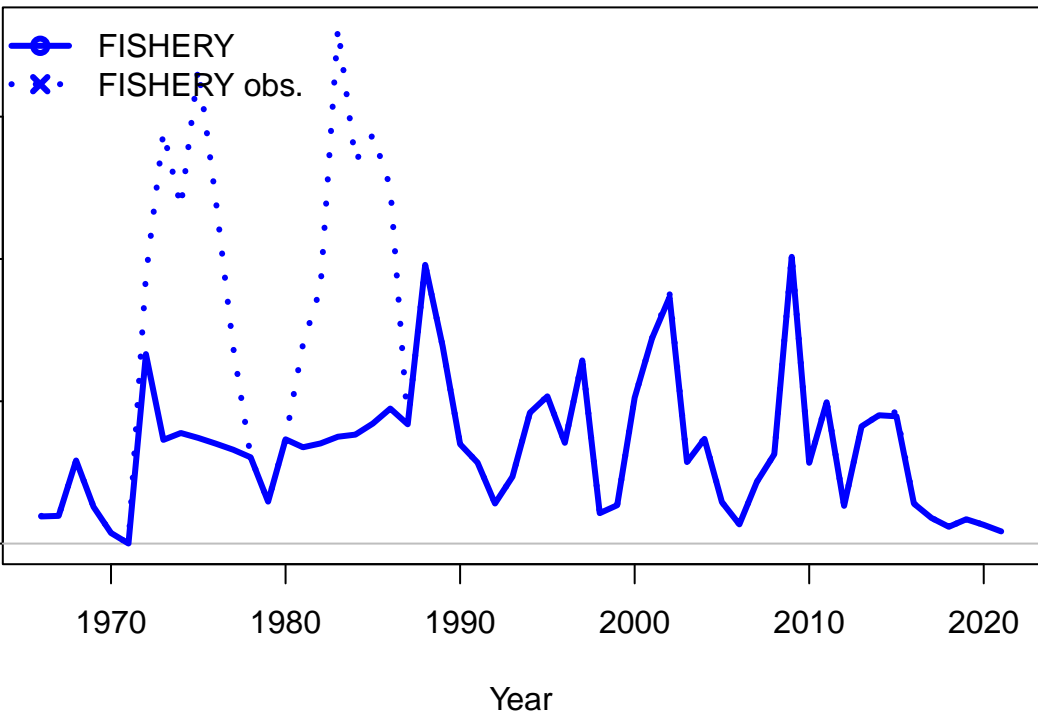
Log recruitment deviation

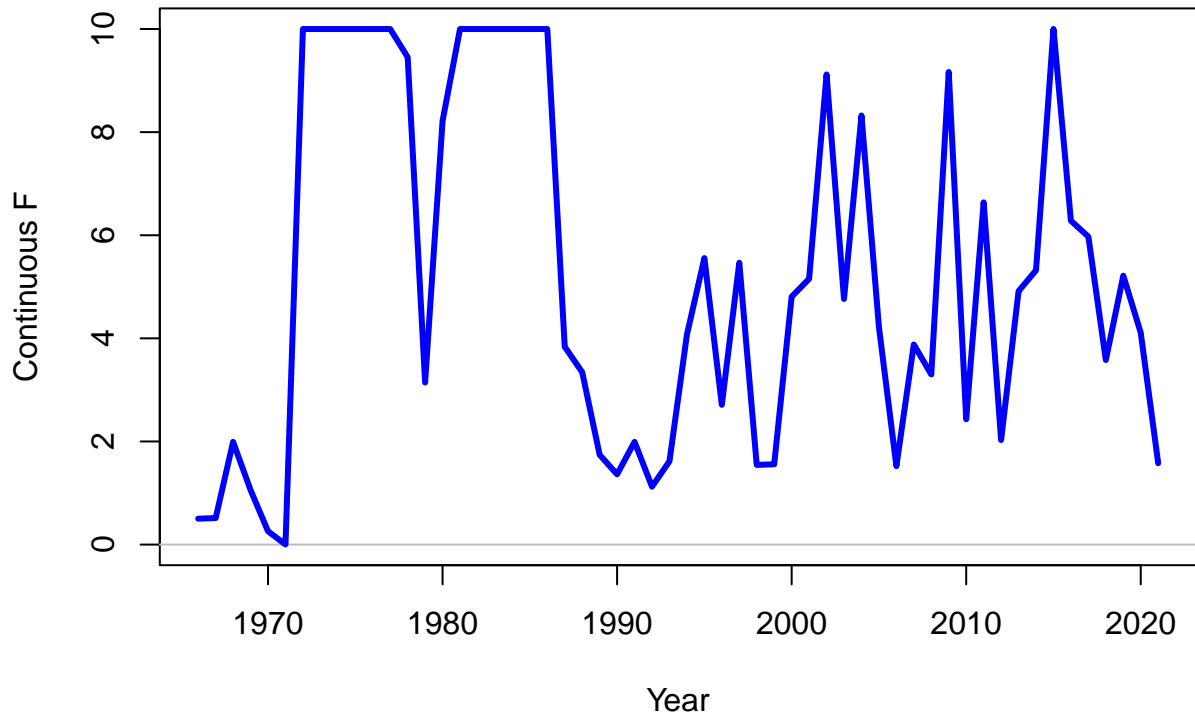






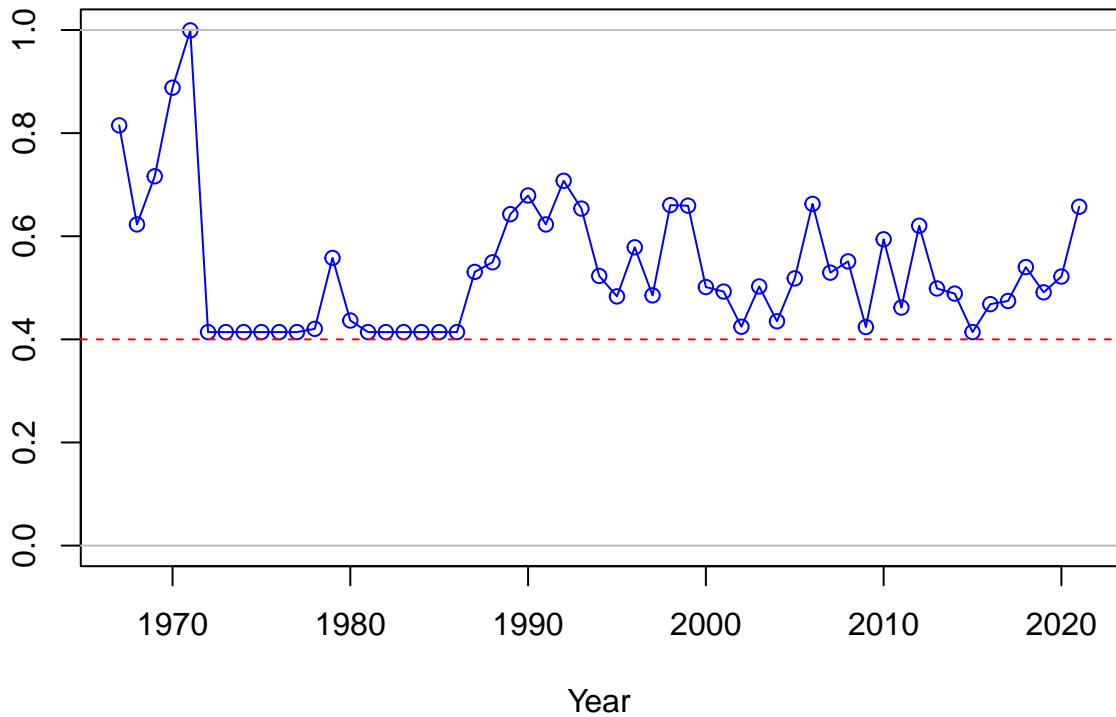
Observed and expected Landings (mt)

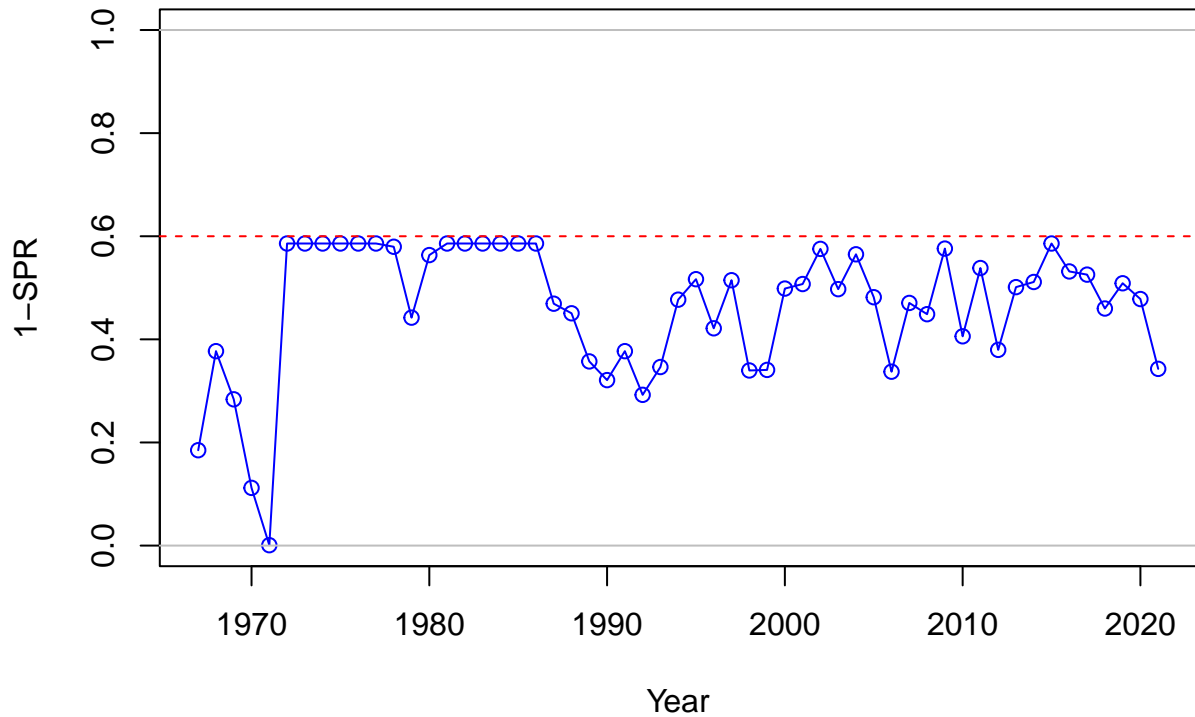




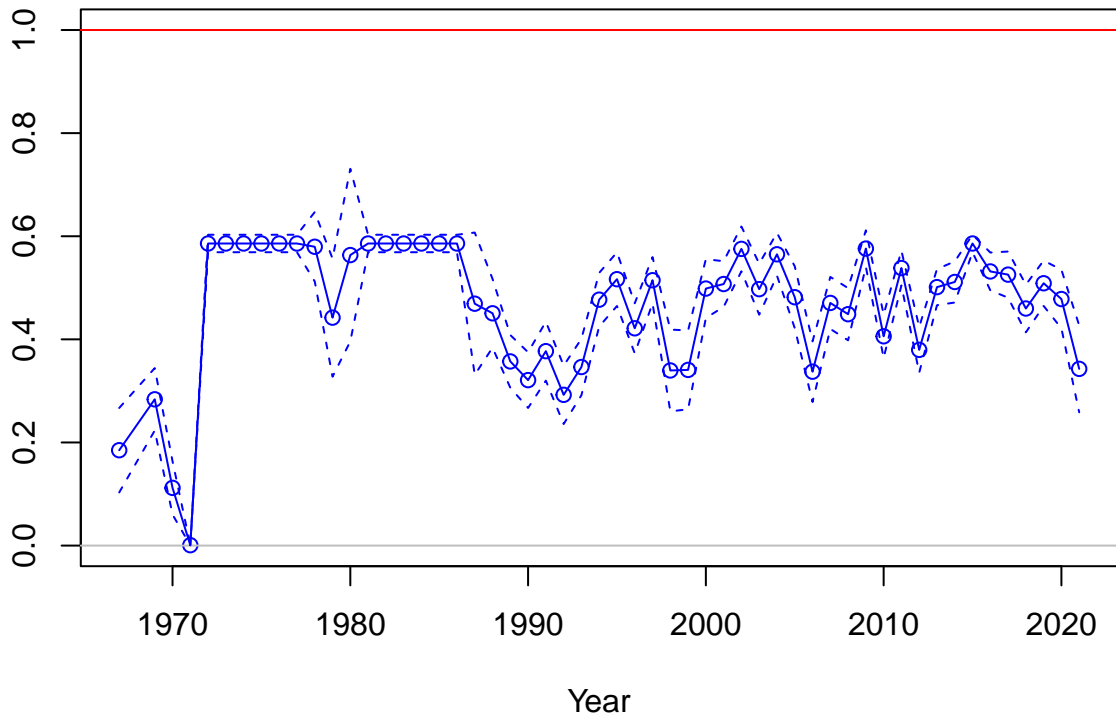


SPR

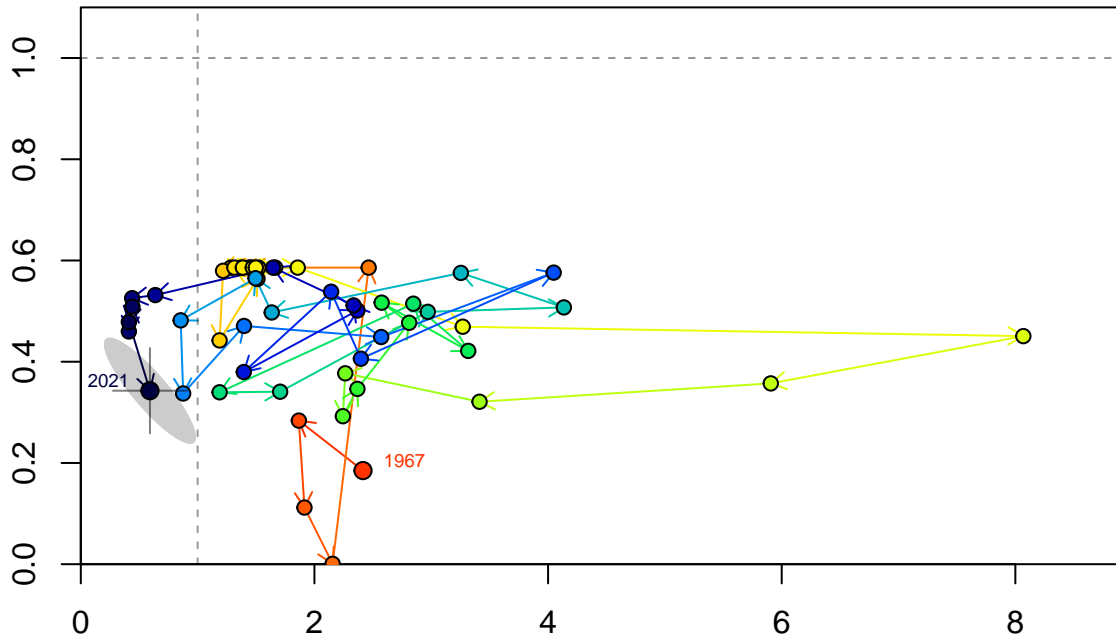




Fishing intensity: 1-SPR

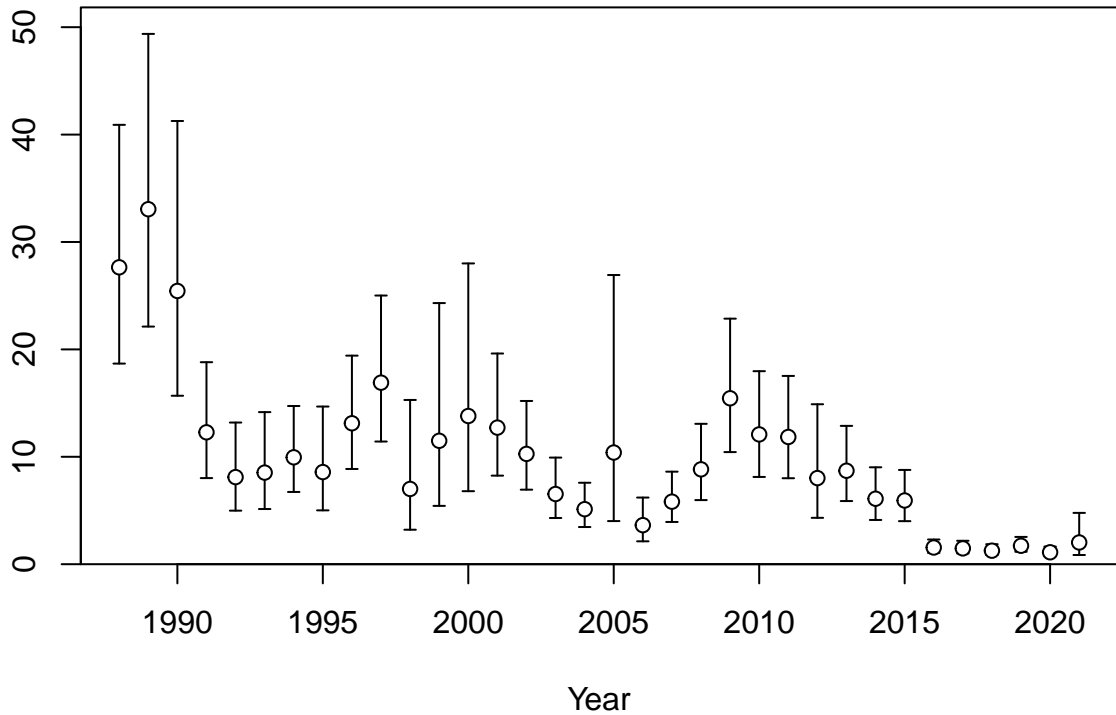


Fishing intensity: 1-SPR

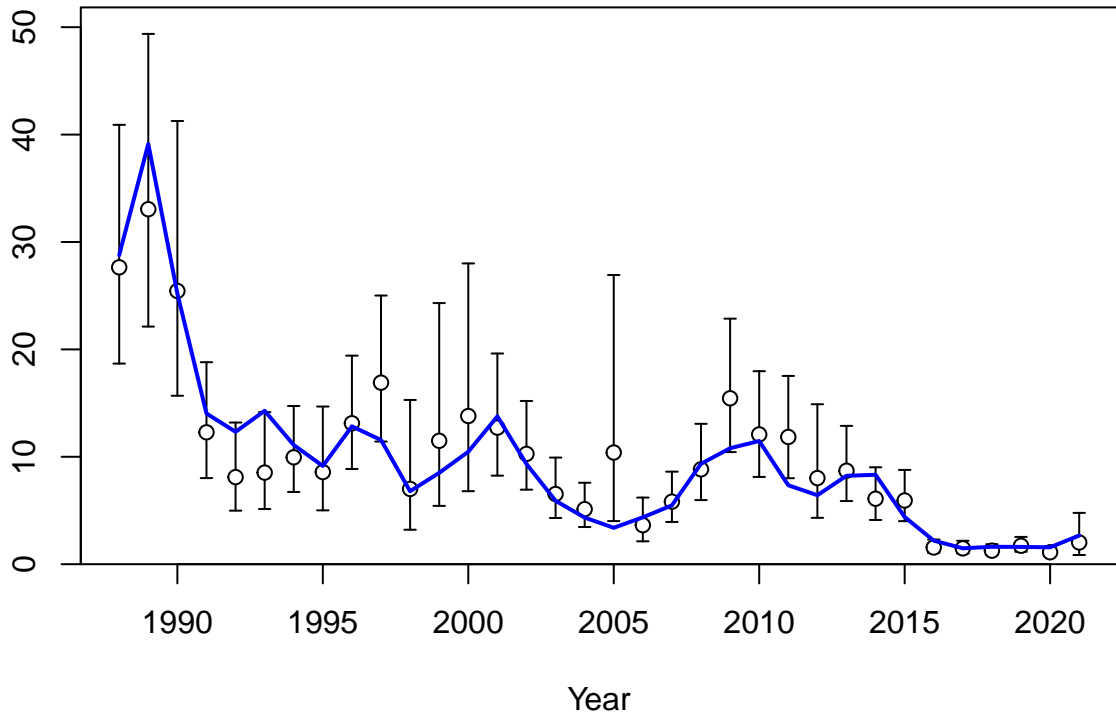


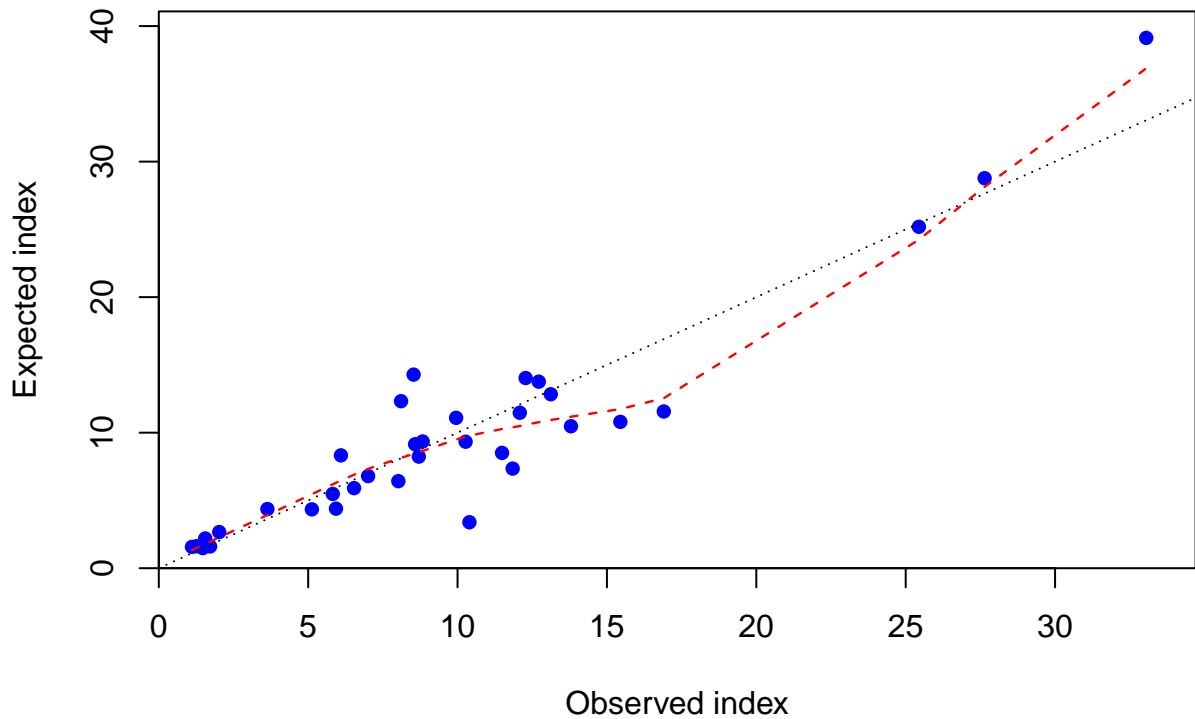
Relative spawning output: B/B<sub>MS</sub>

Index

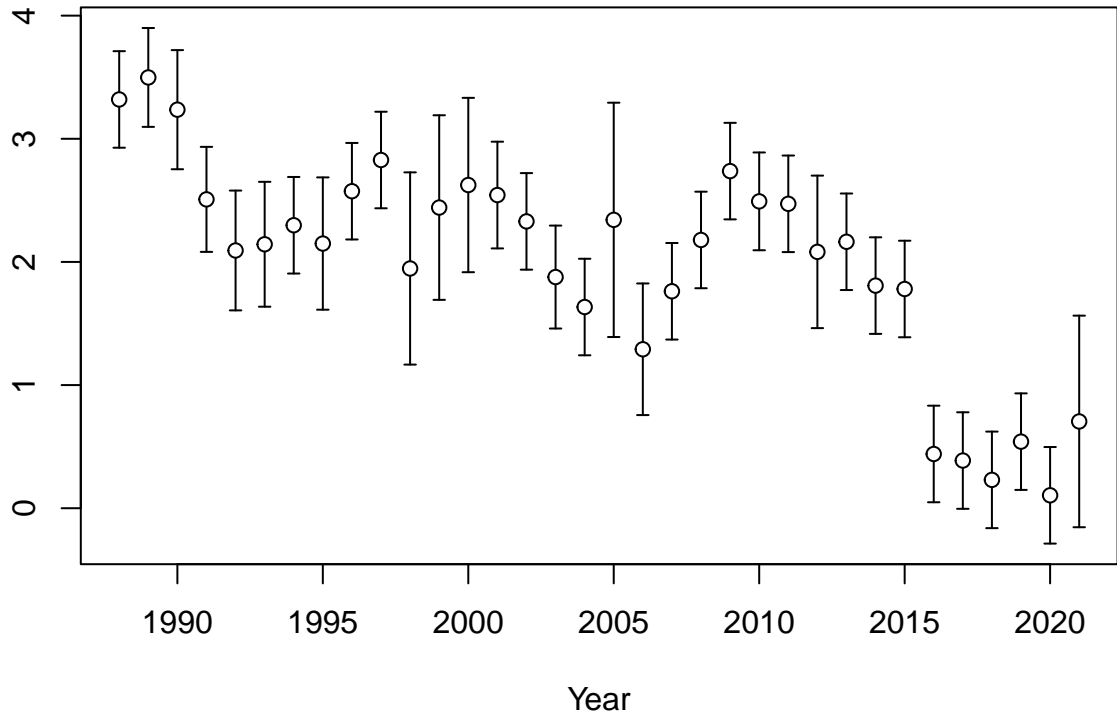


Index



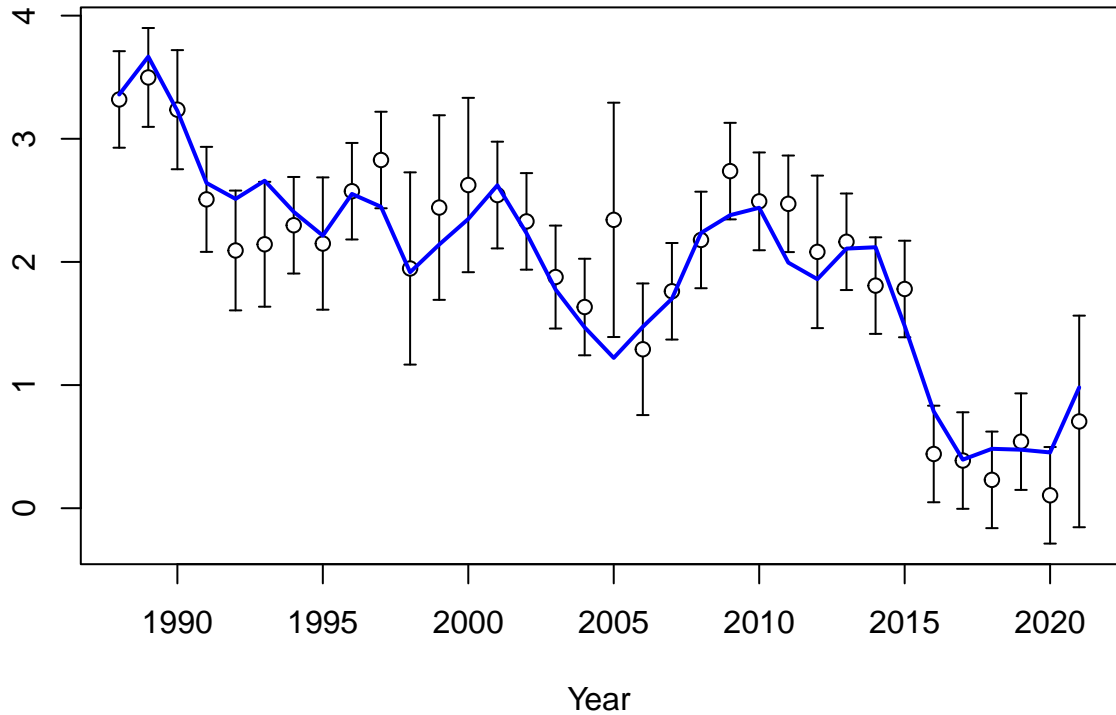


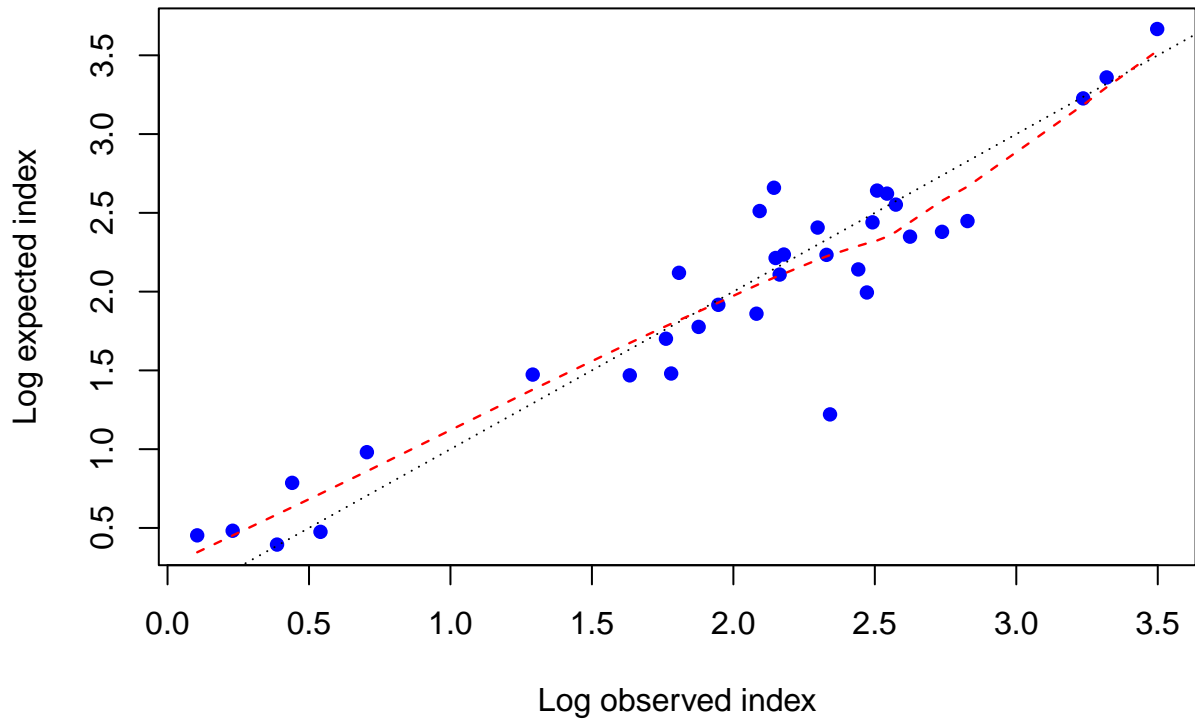
Log index

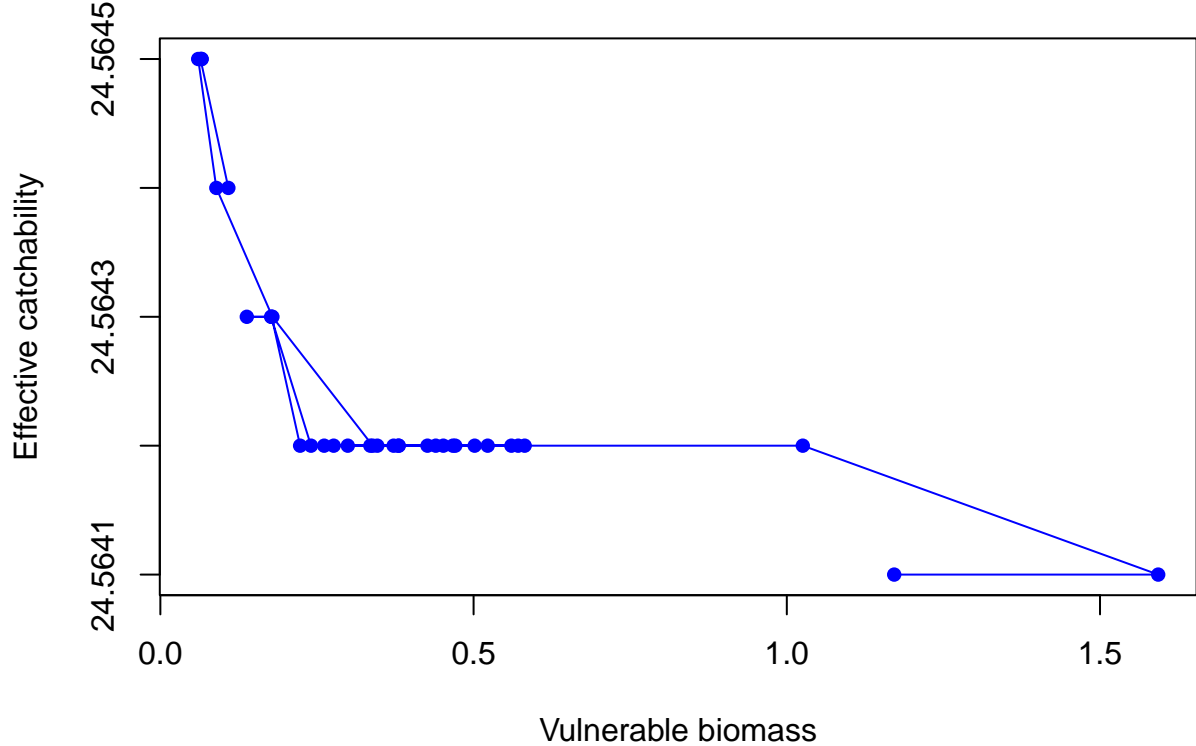


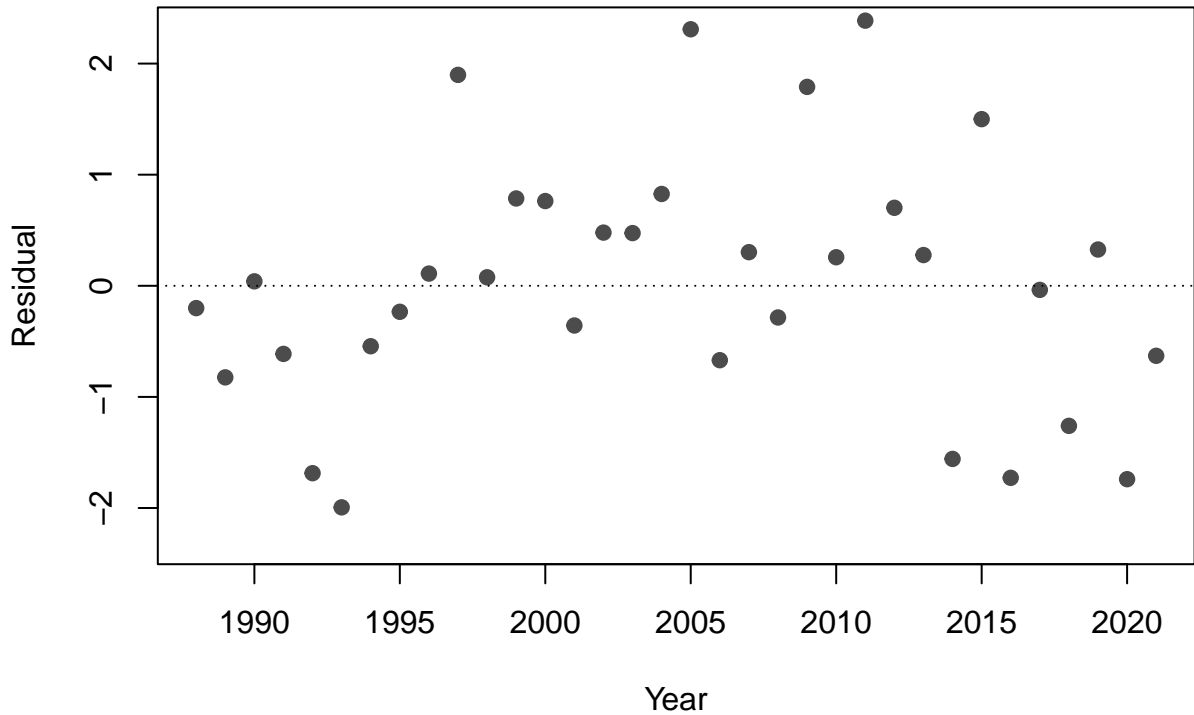


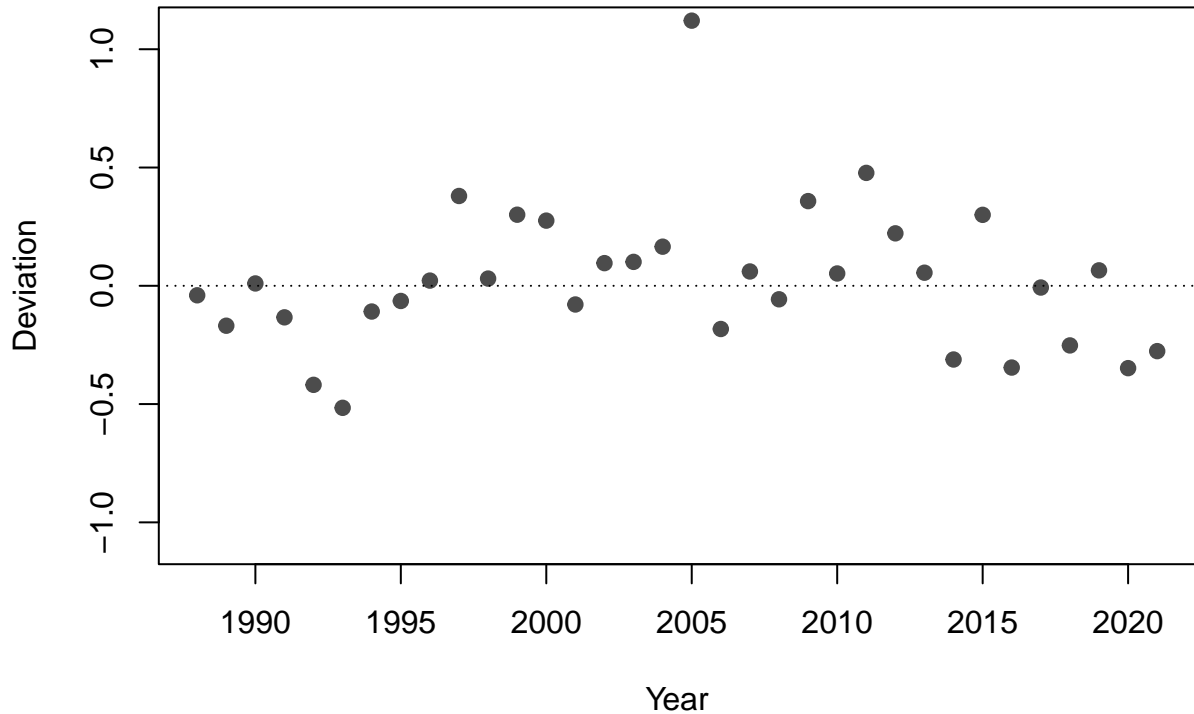
Log index

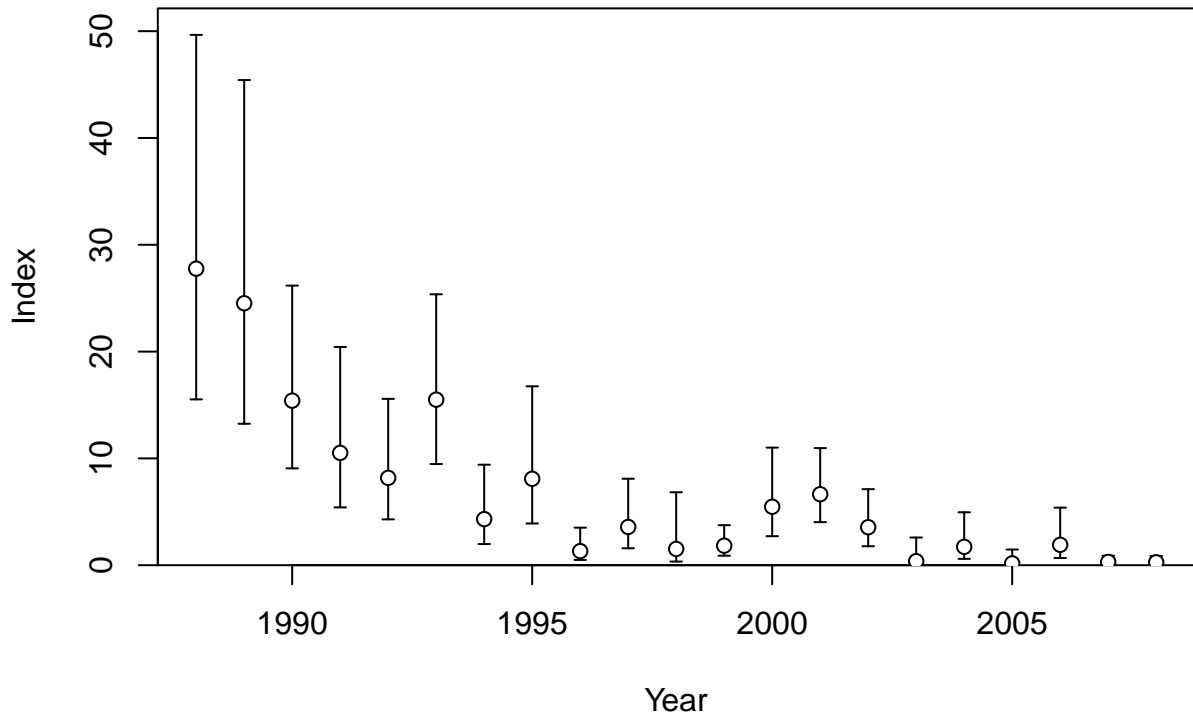


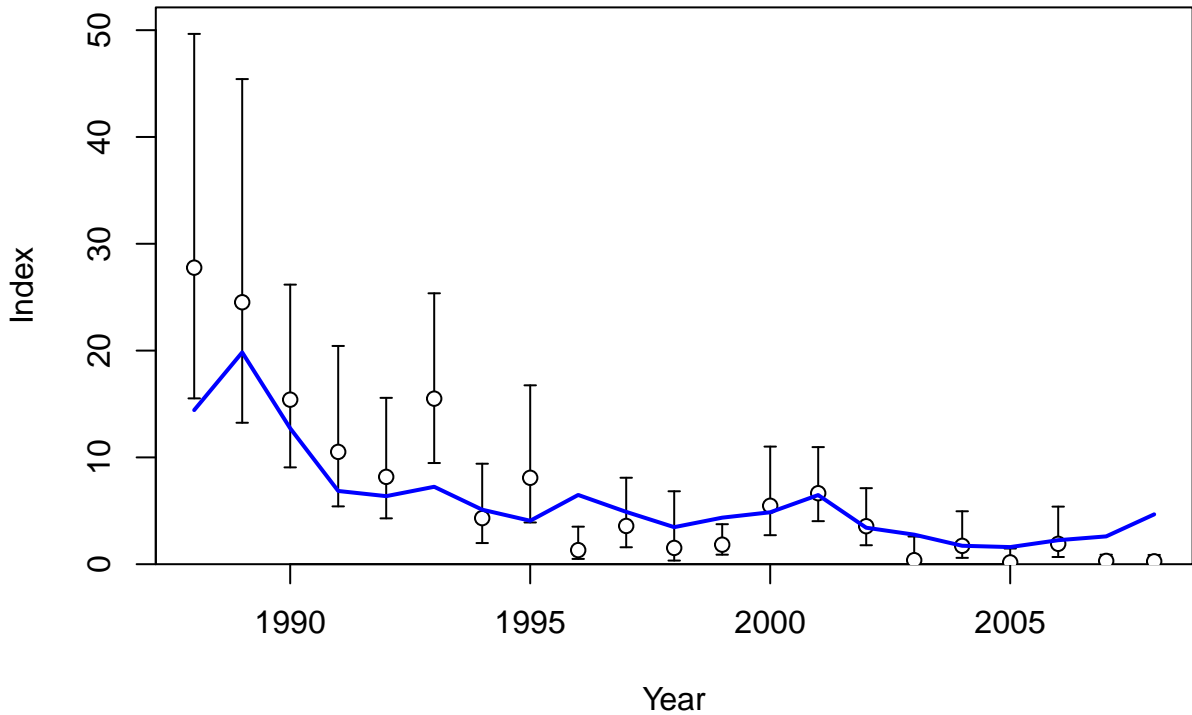


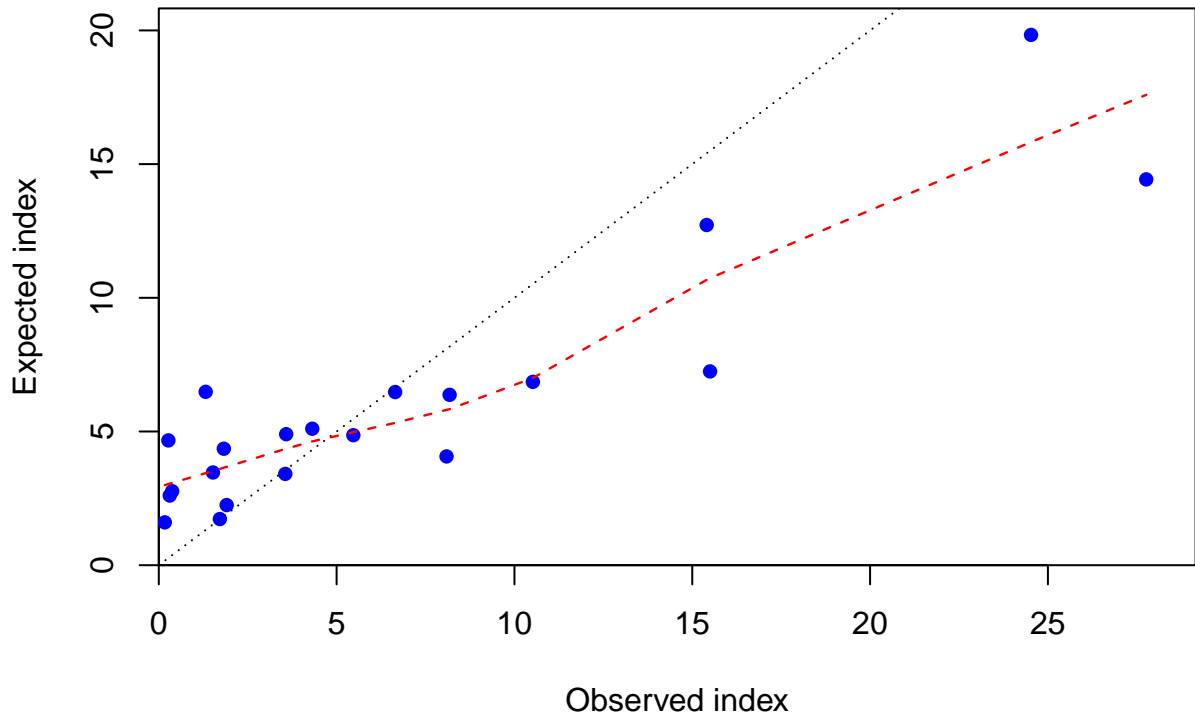




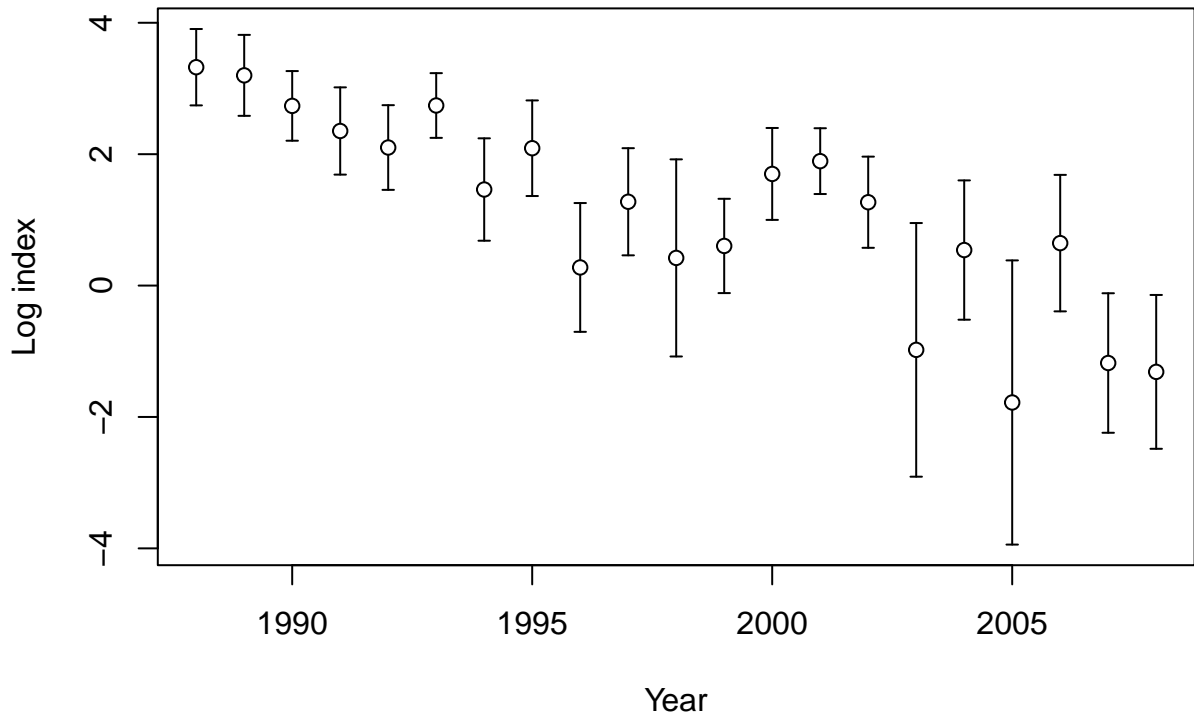


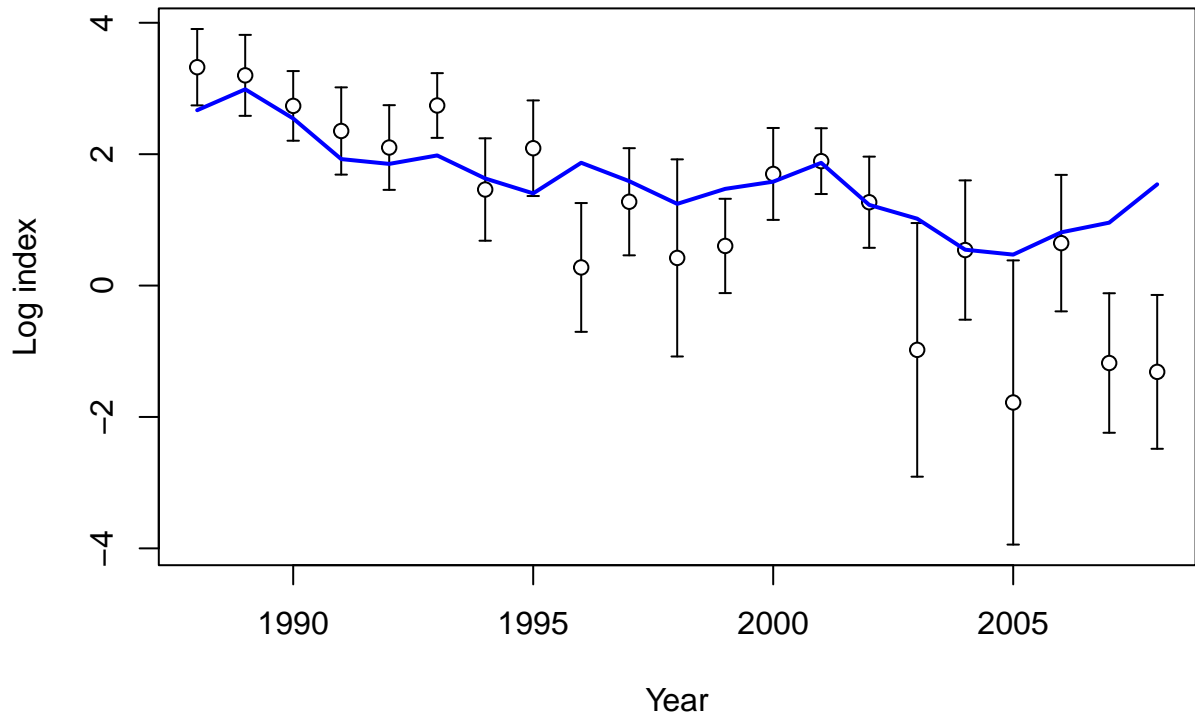


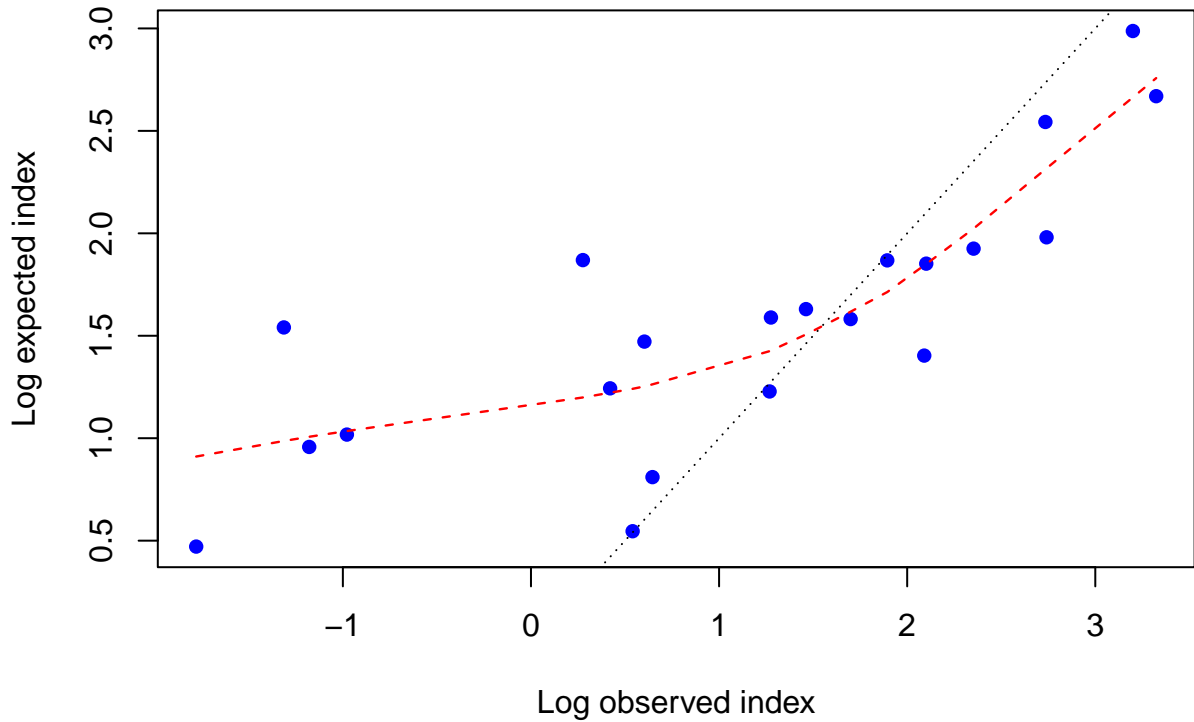


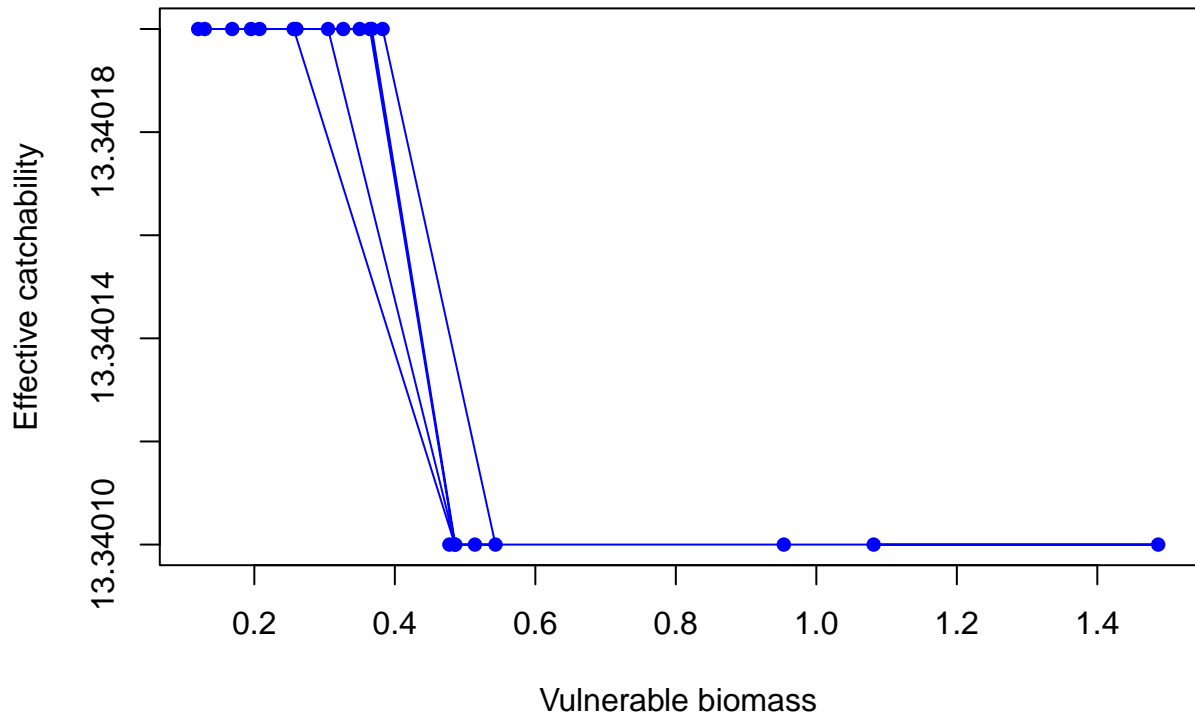


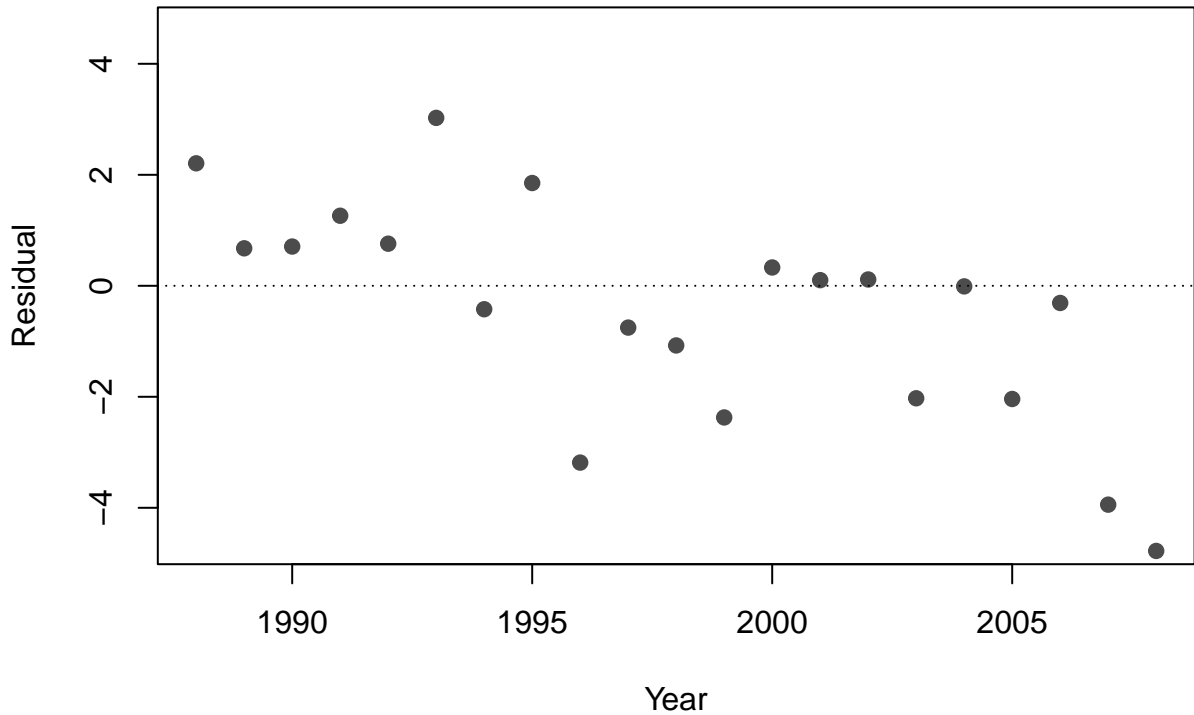


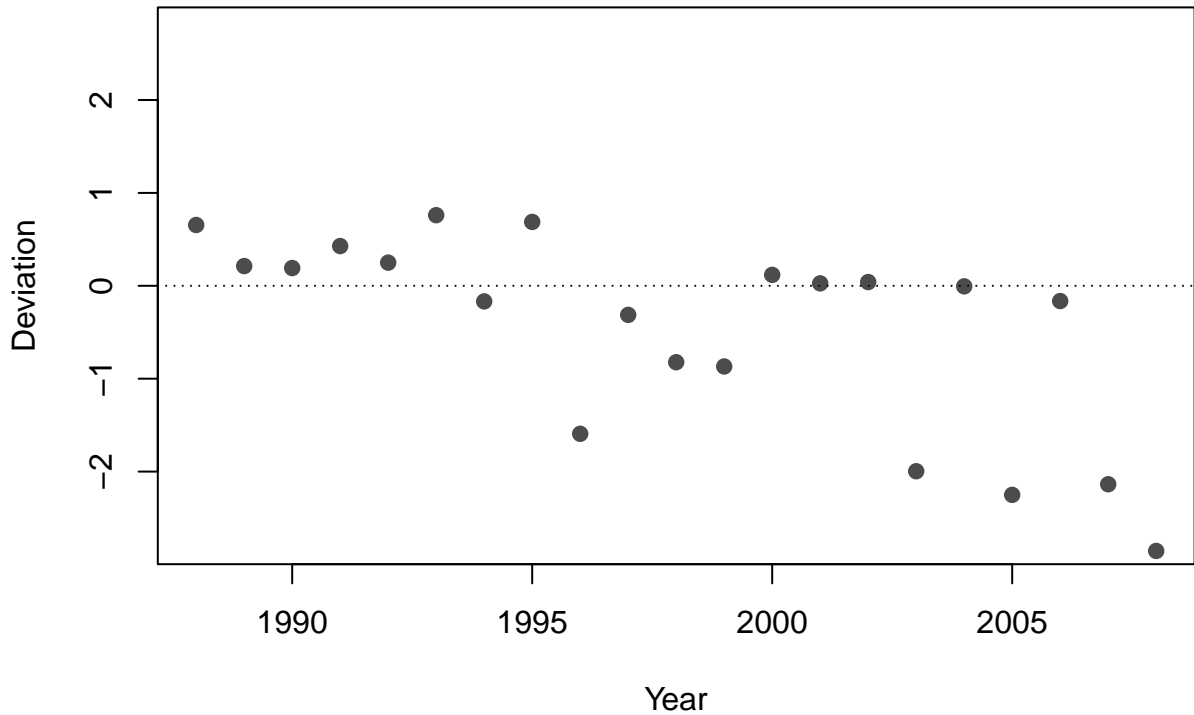


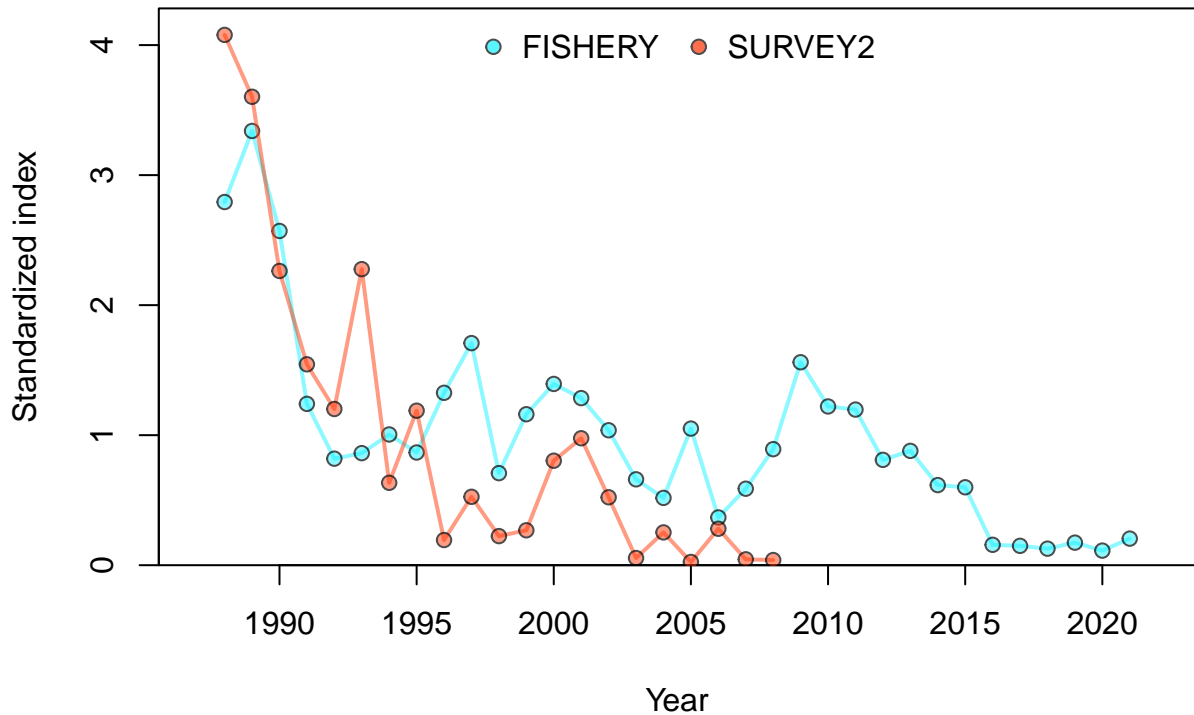




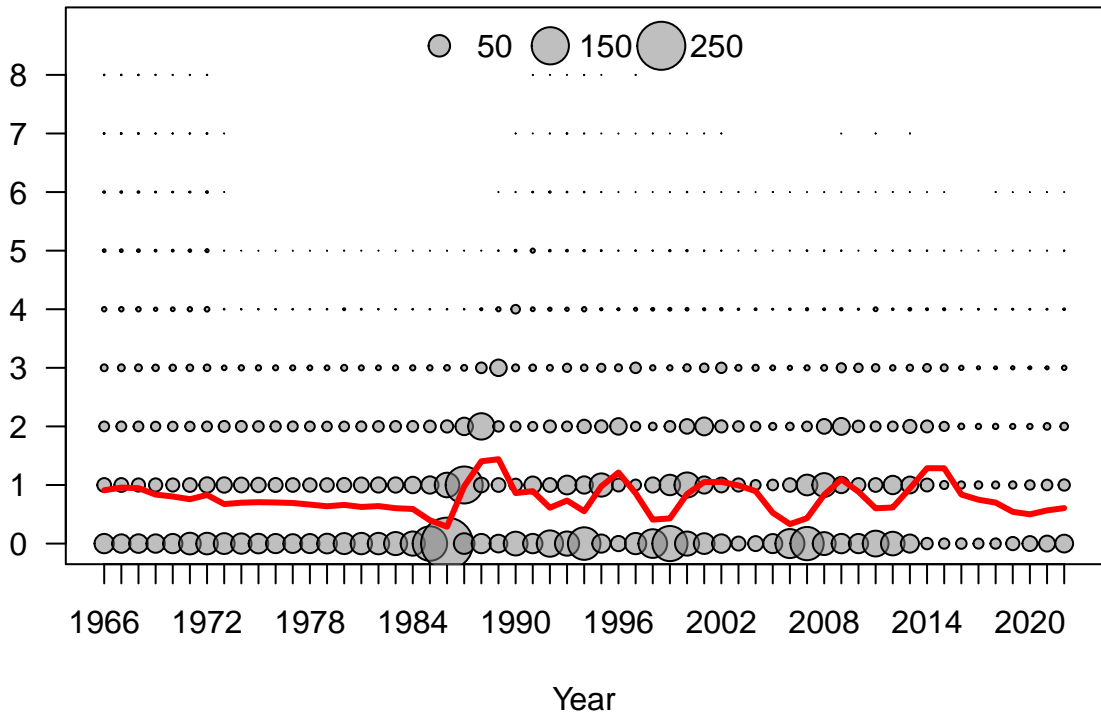






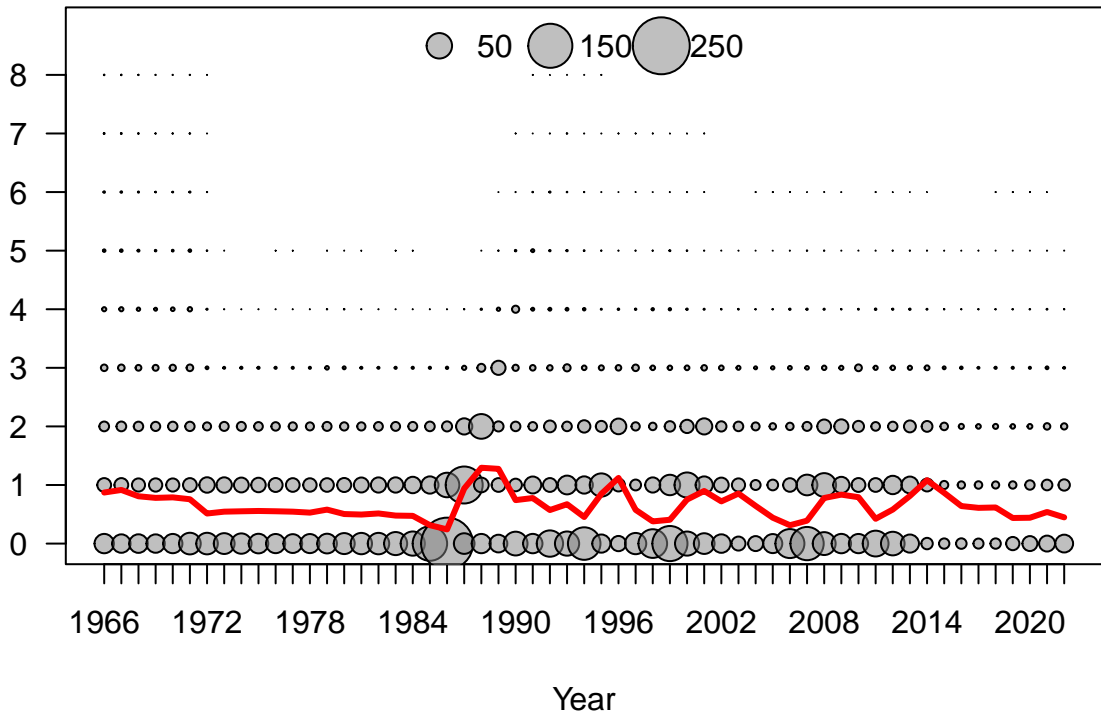


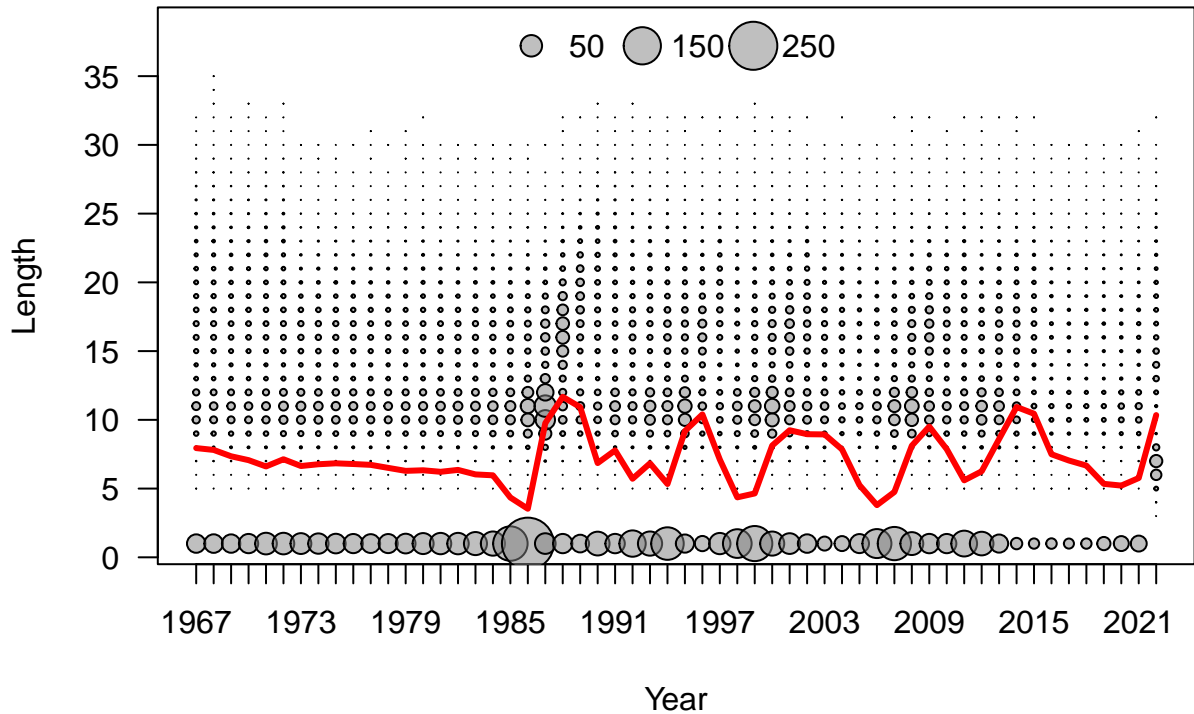
Age

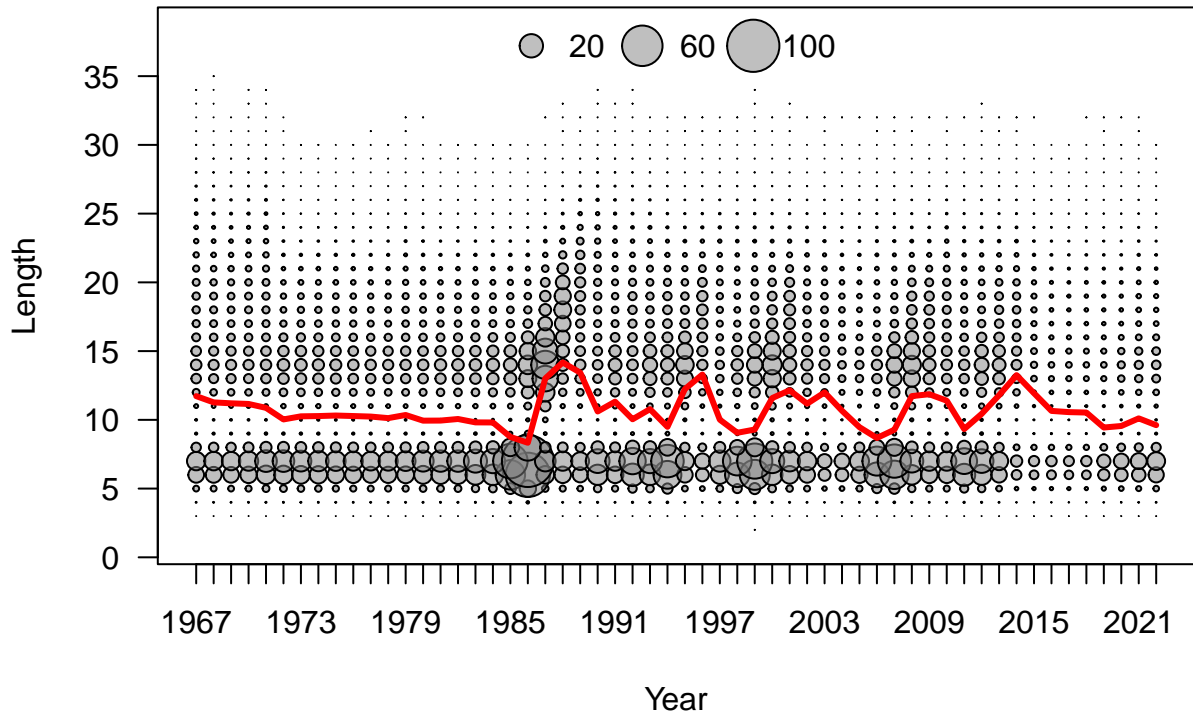


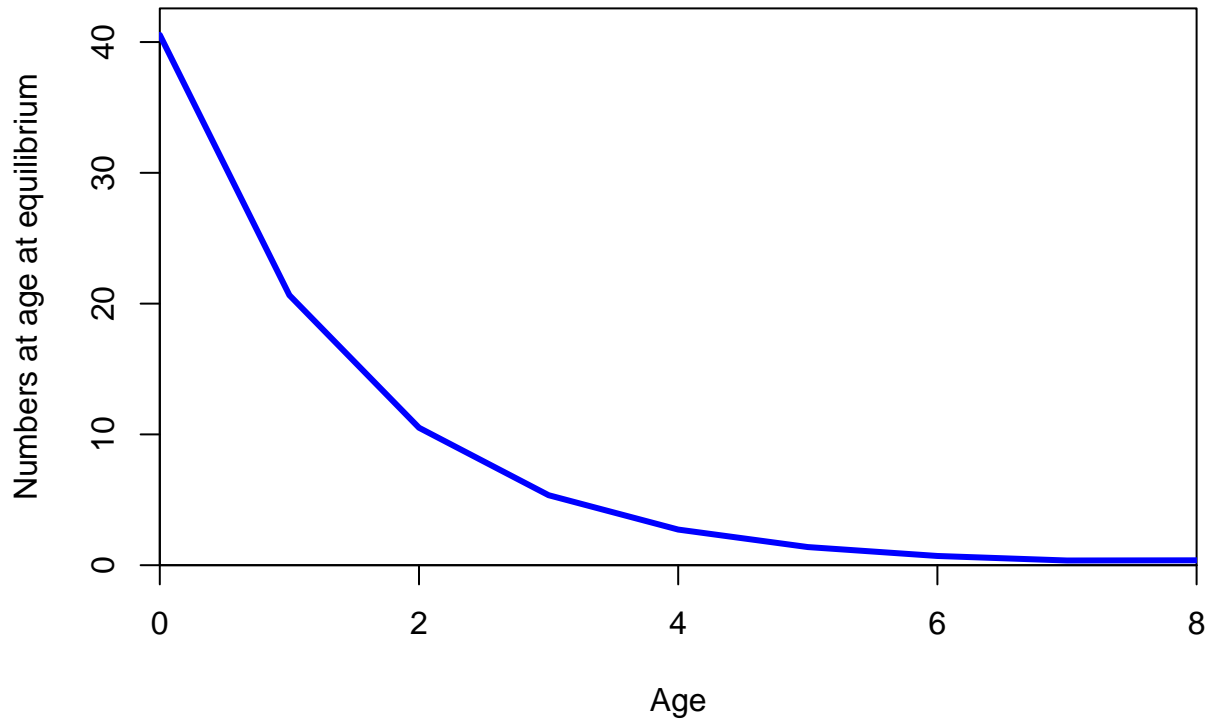


Age



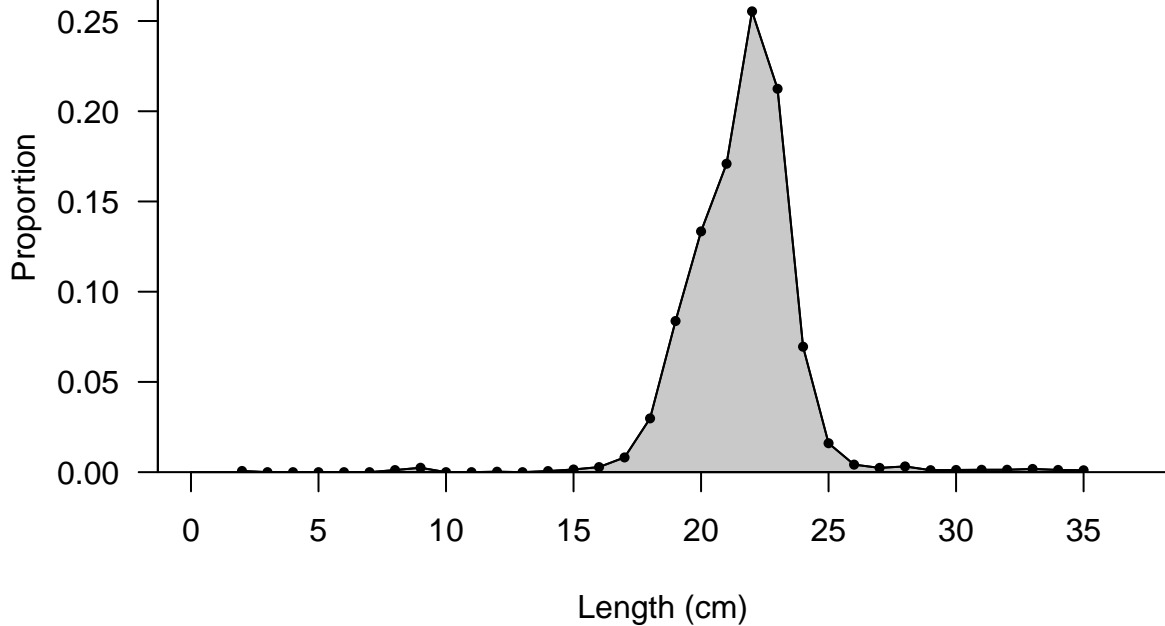


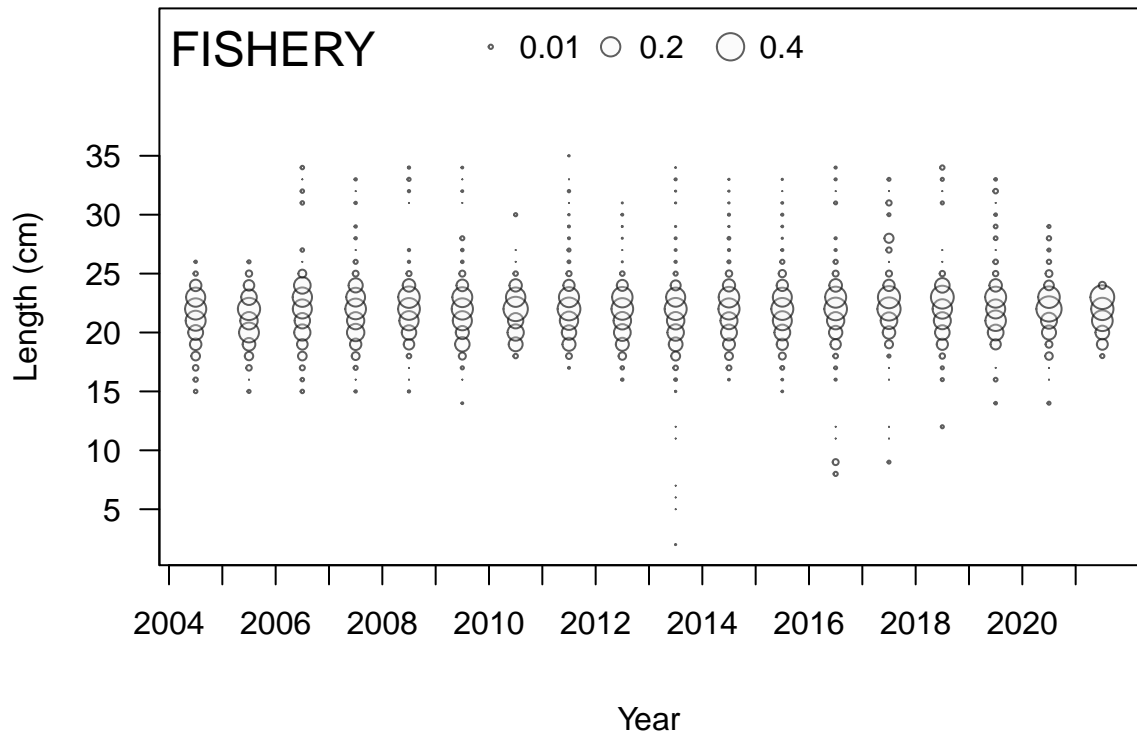


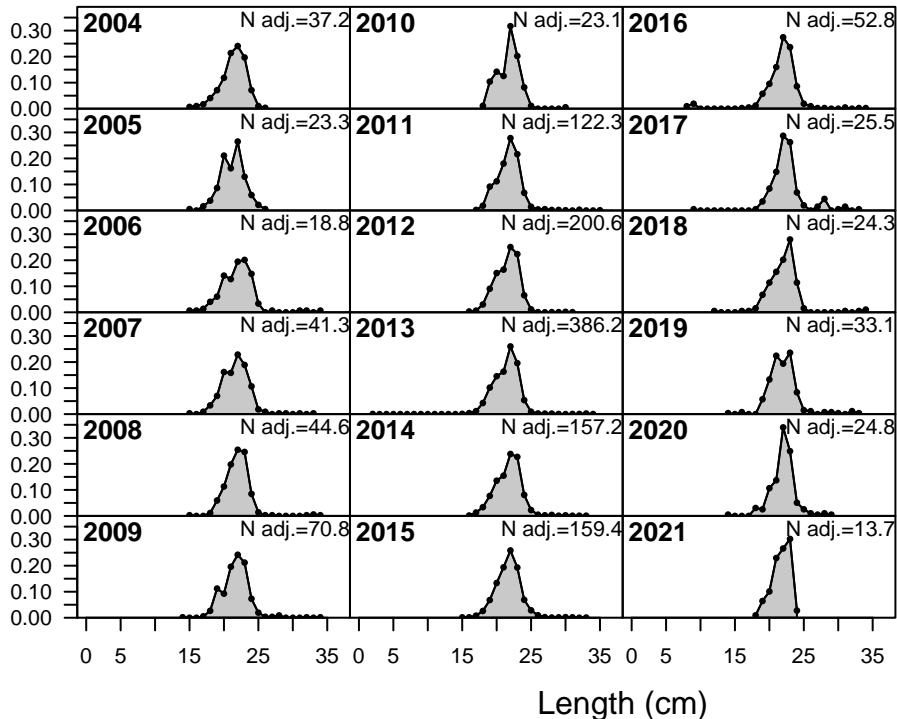


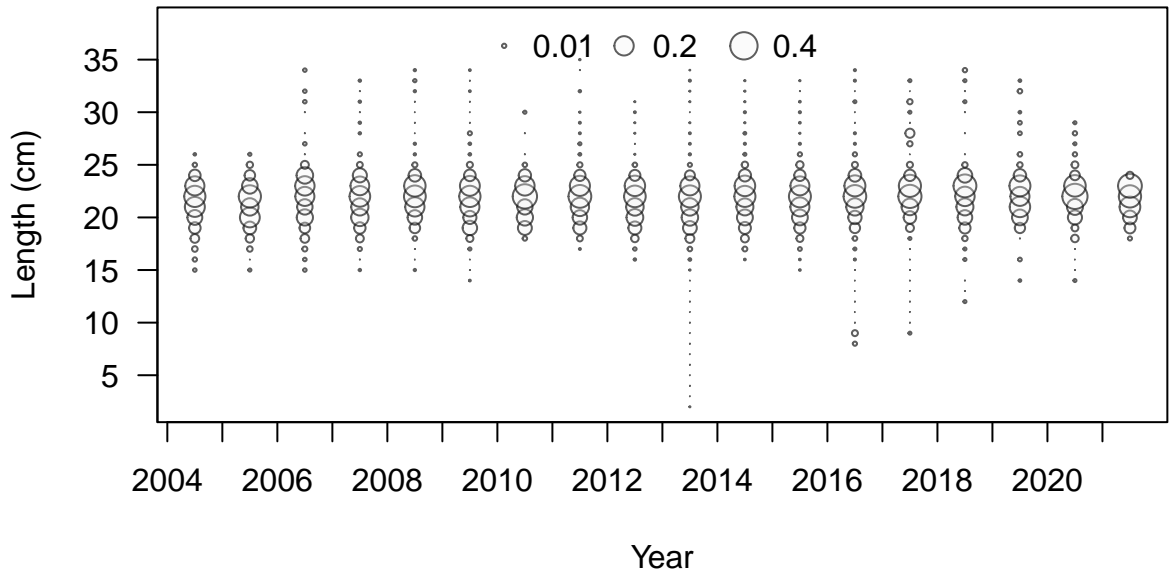
# FISHERY

Sum of N adj.=1459.1



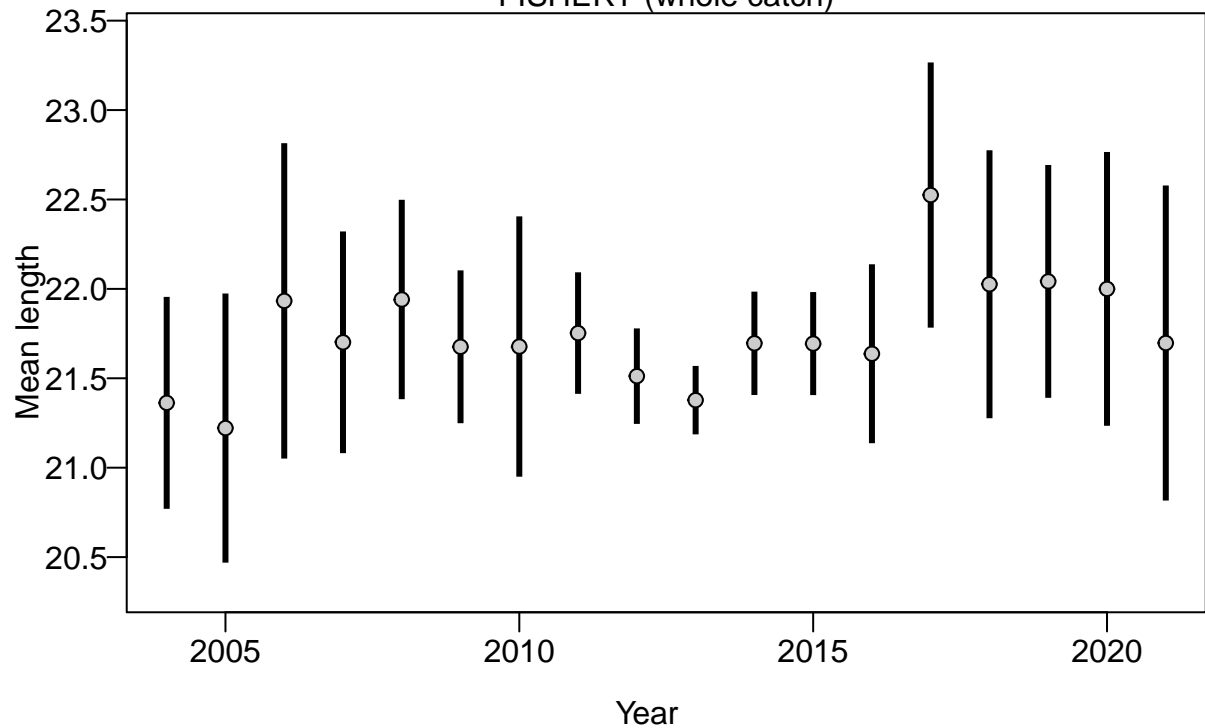


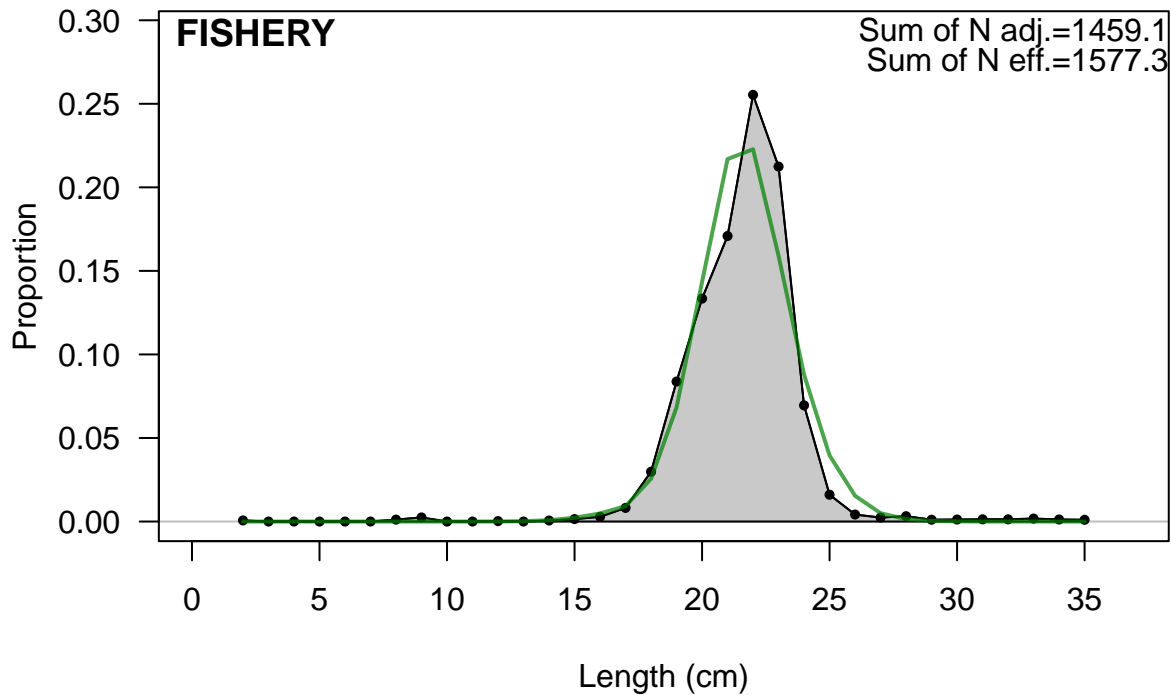


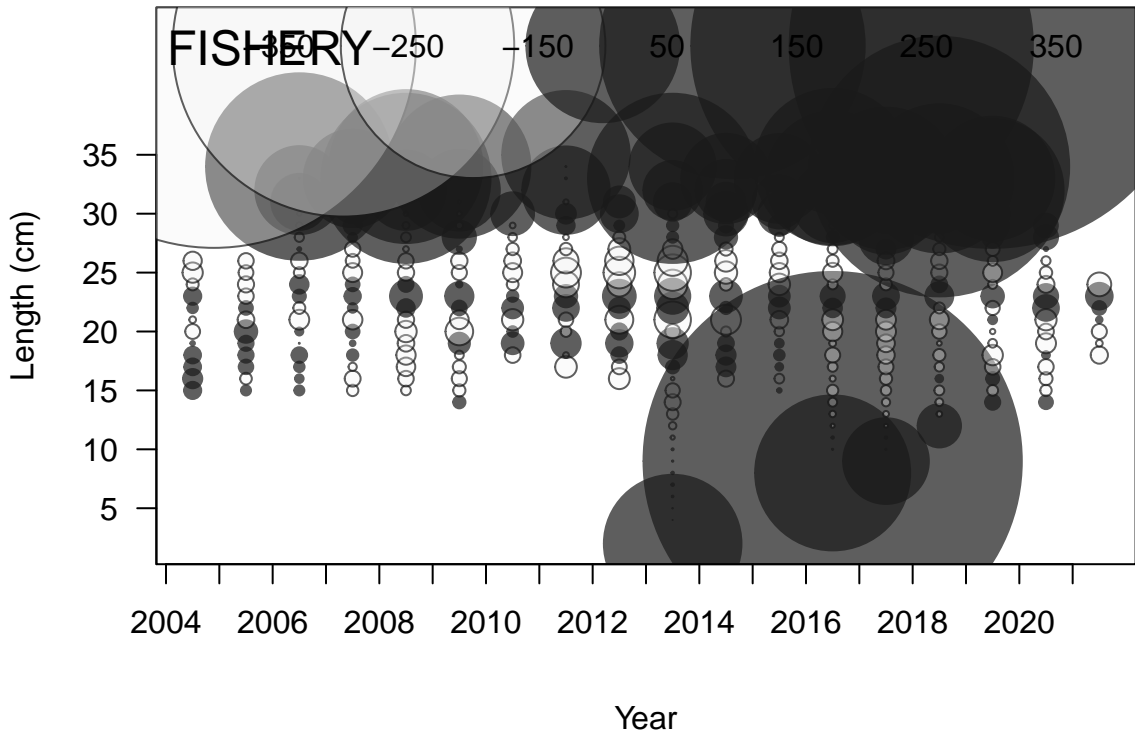


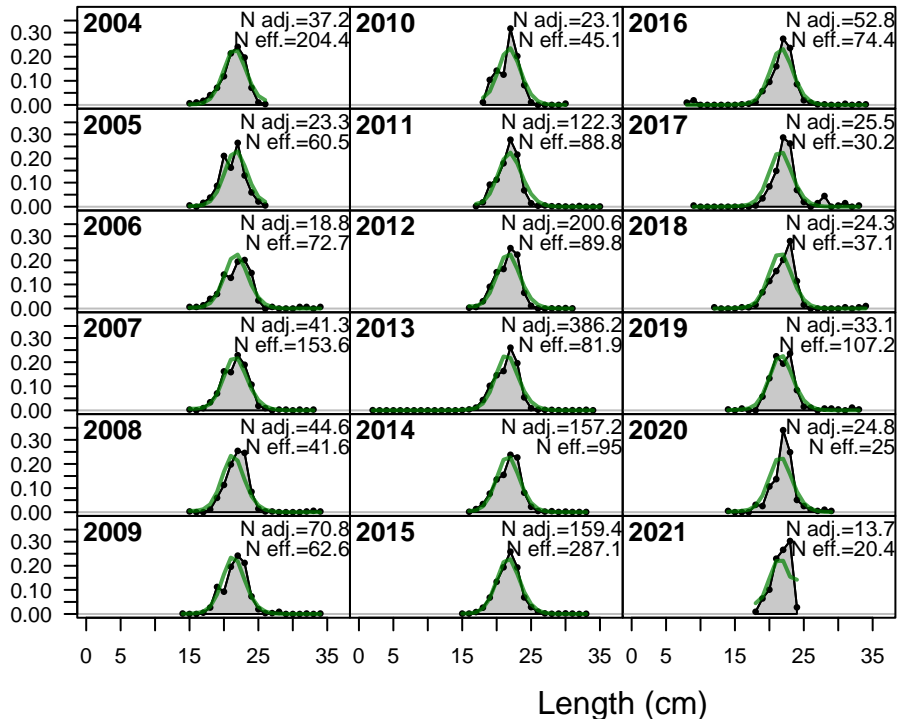


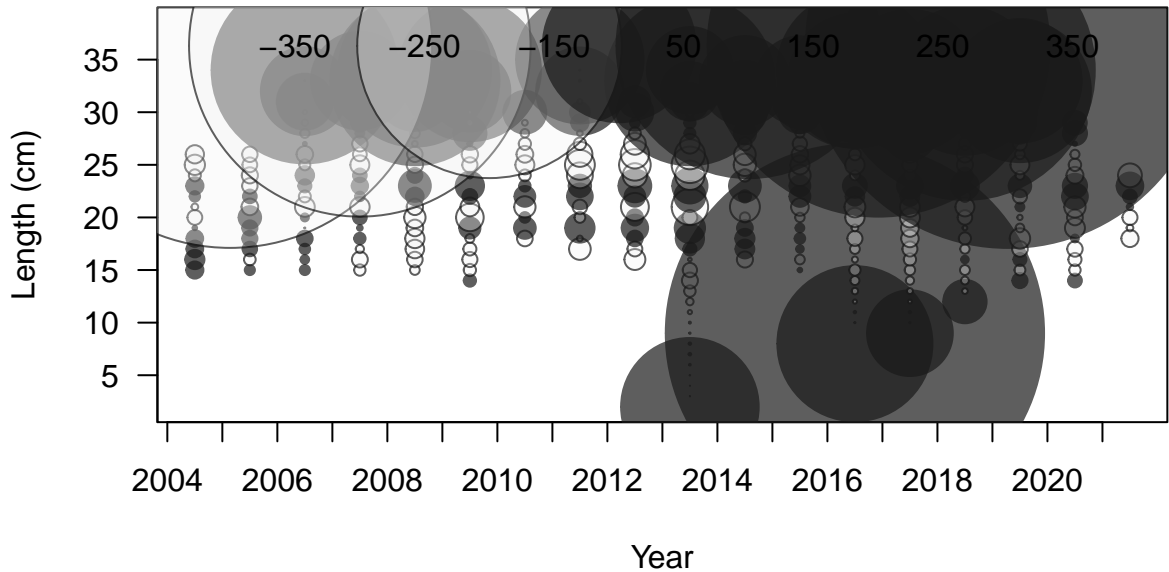
## FISHERY (whole catch)



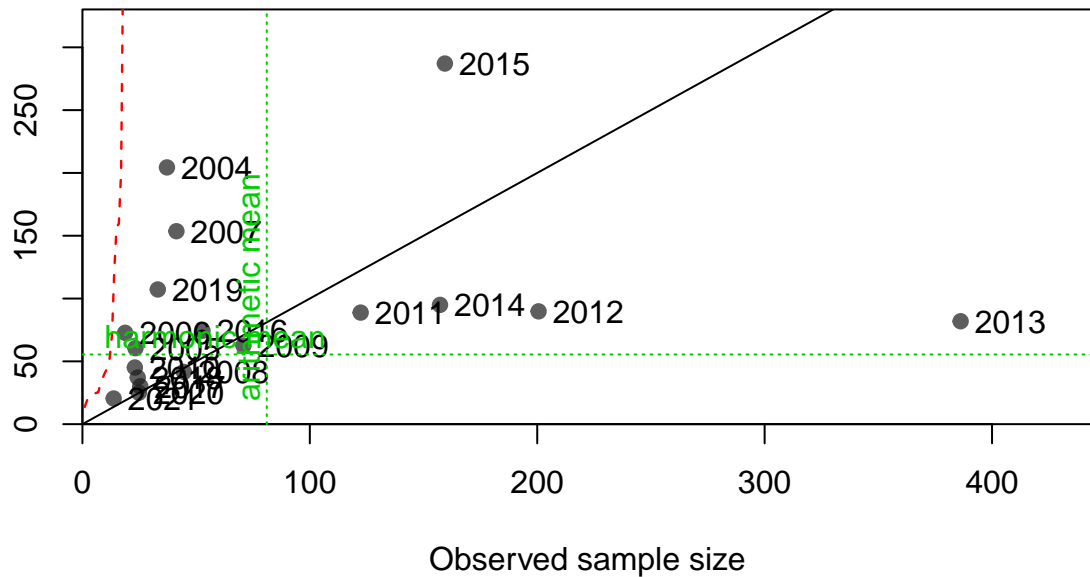




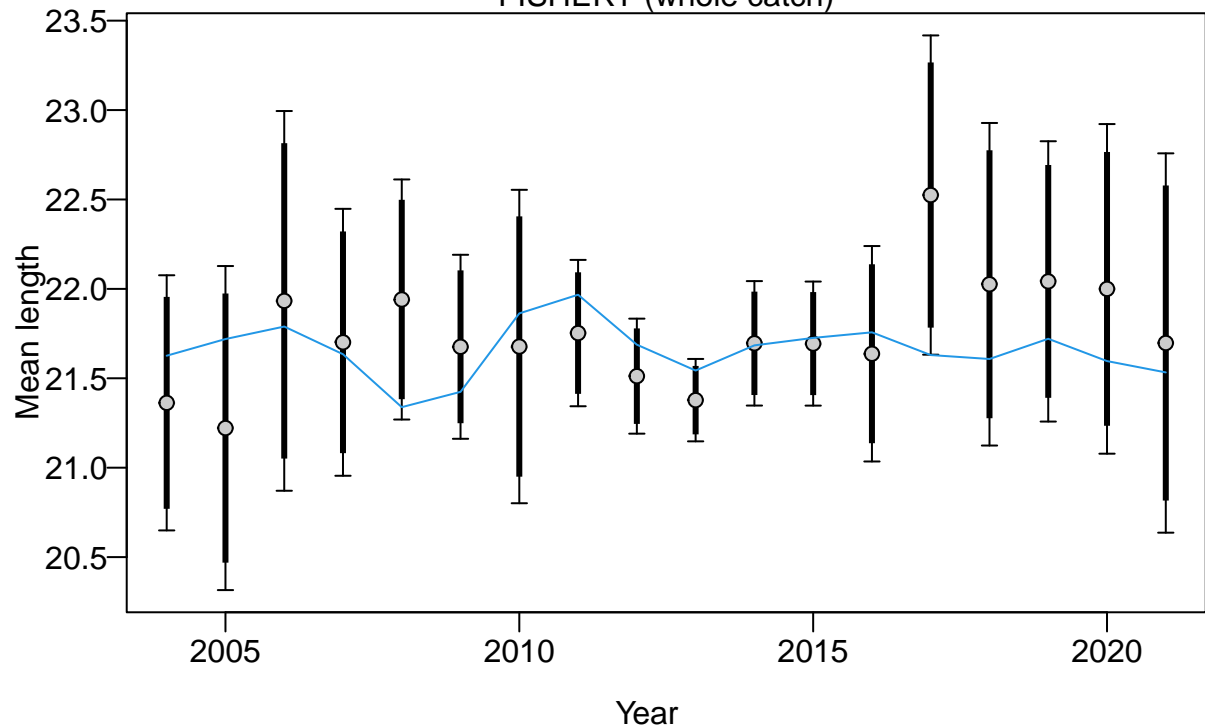


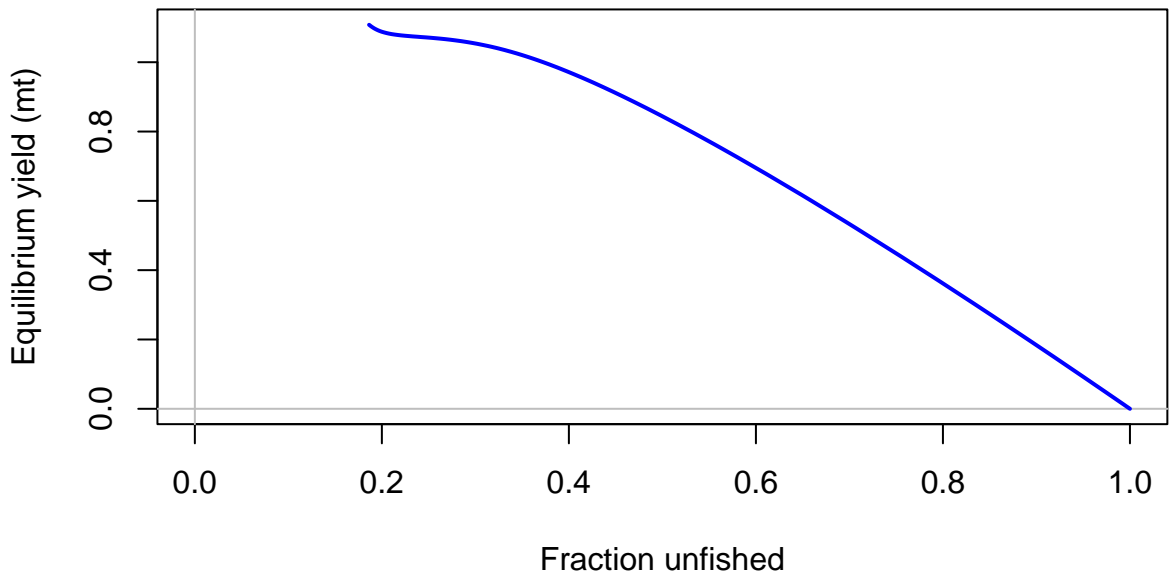


Effective sample size

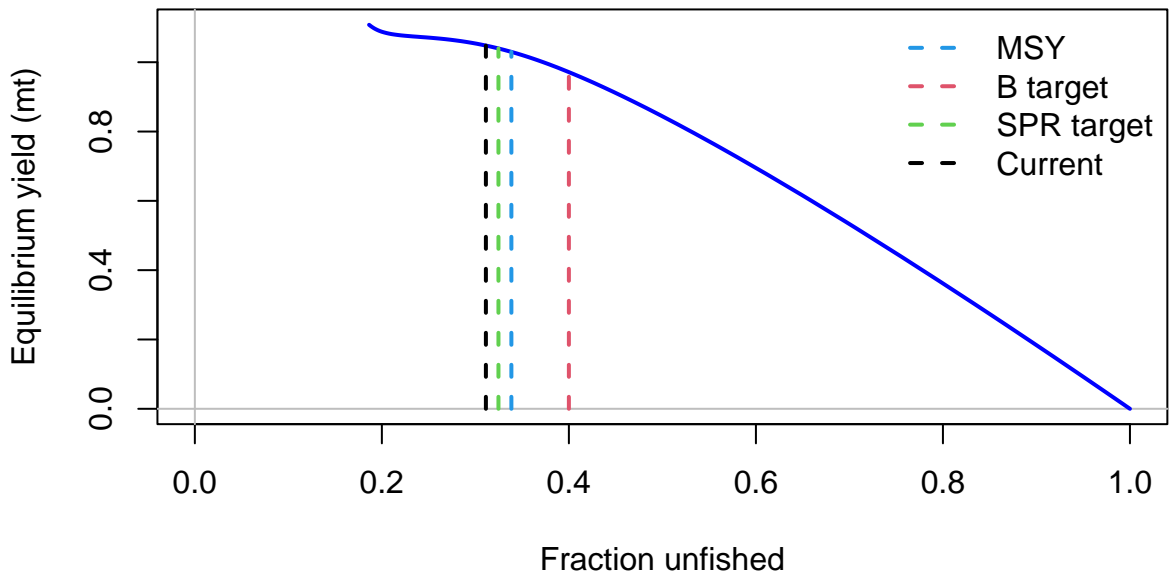


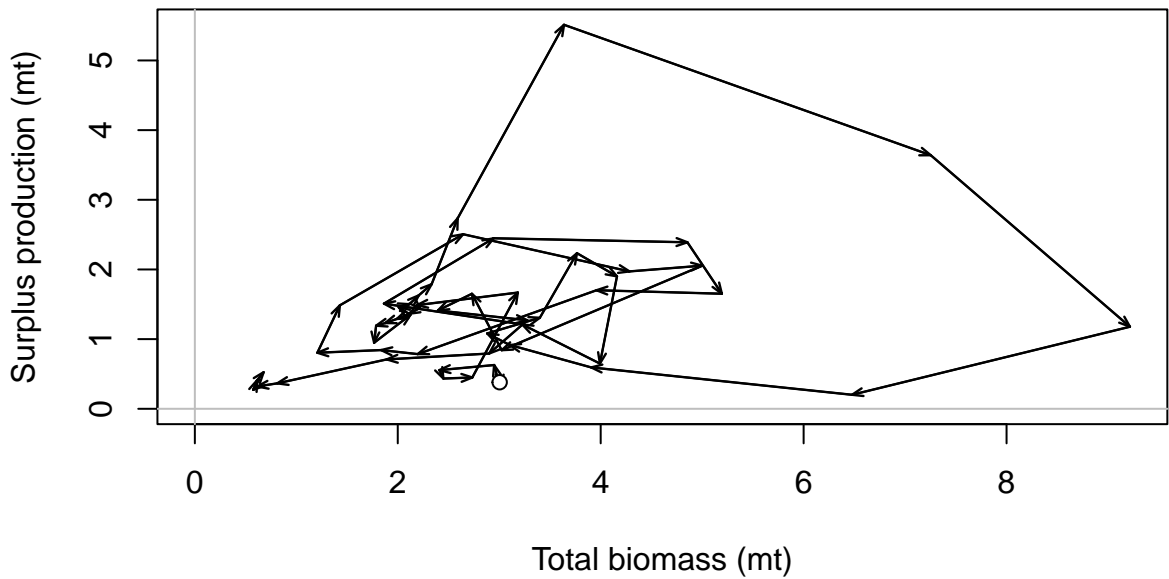
FISHERY (whole catch)

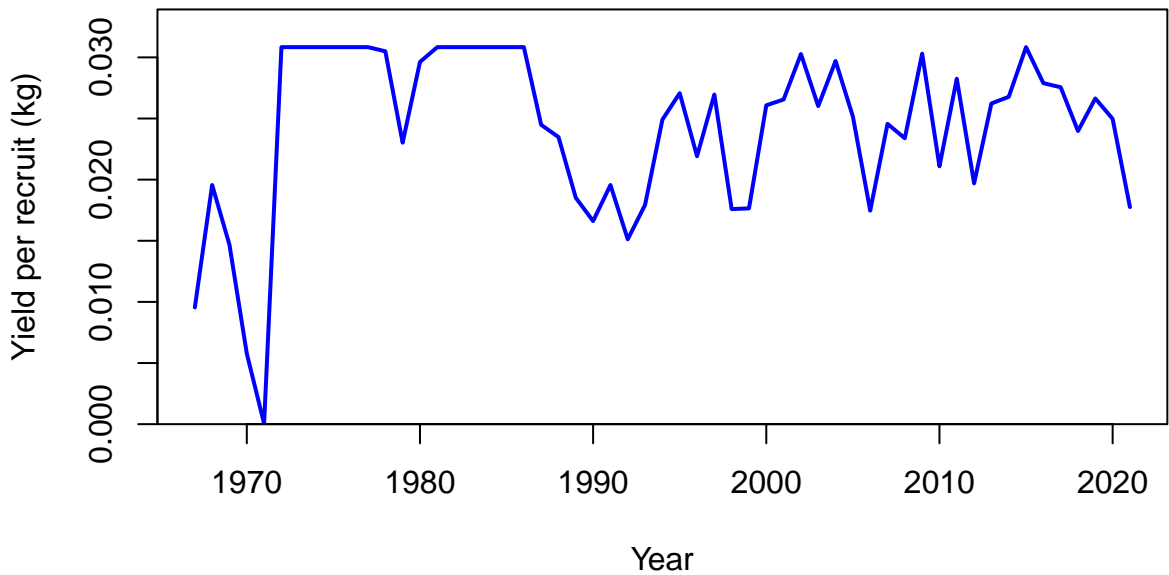


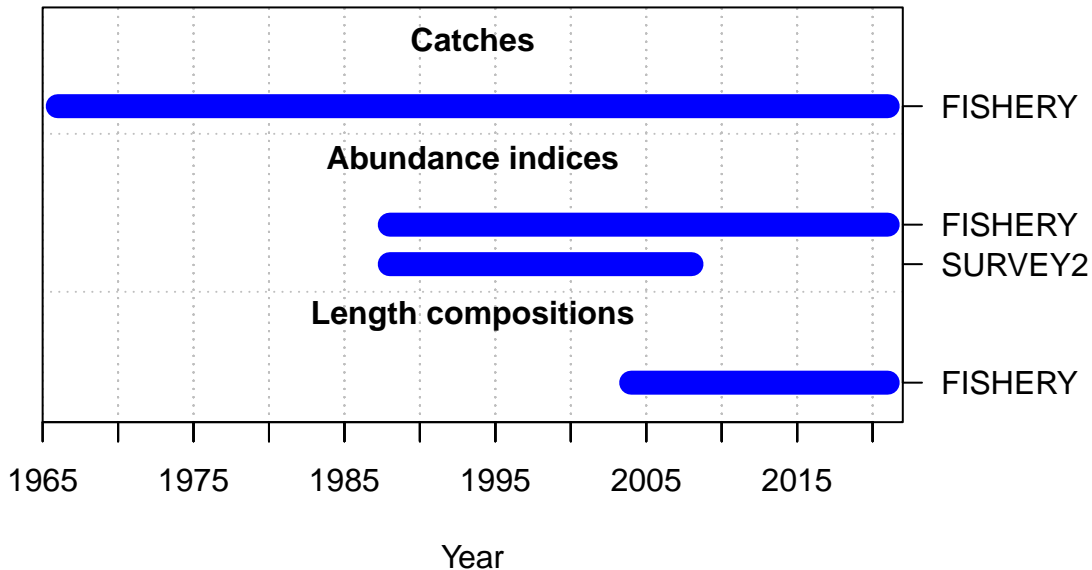


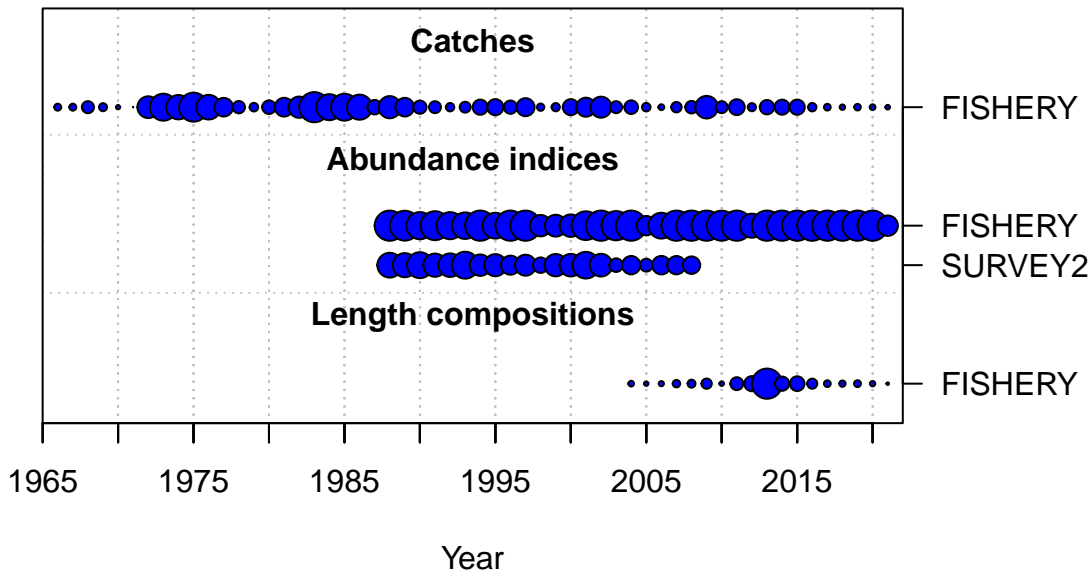






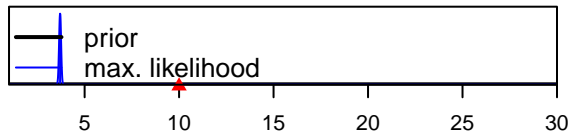




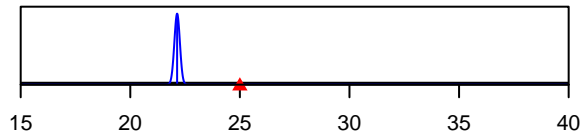


Density

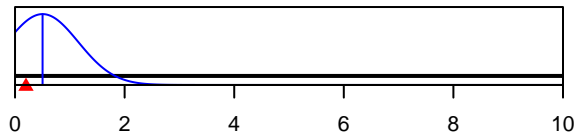
SR\_LN(R0)



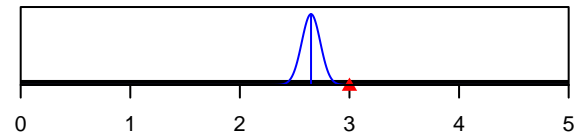
Size\_inflection\_FISHERY(1)



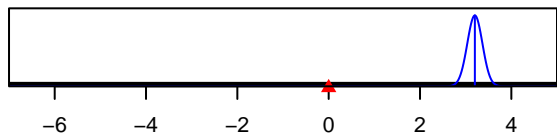
InitF\_seas\_1\_flt\_1FISHERY



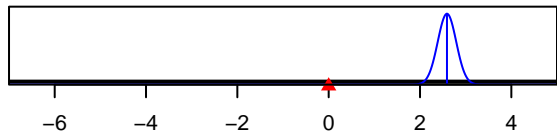
Size\_95%width\_FISHERY(1)



LnQ\_base\_FISHERY(1)



LnQ\_base\_SURVEY2(2)



Parameter value