

Plots created using the 'r4ss' package in R

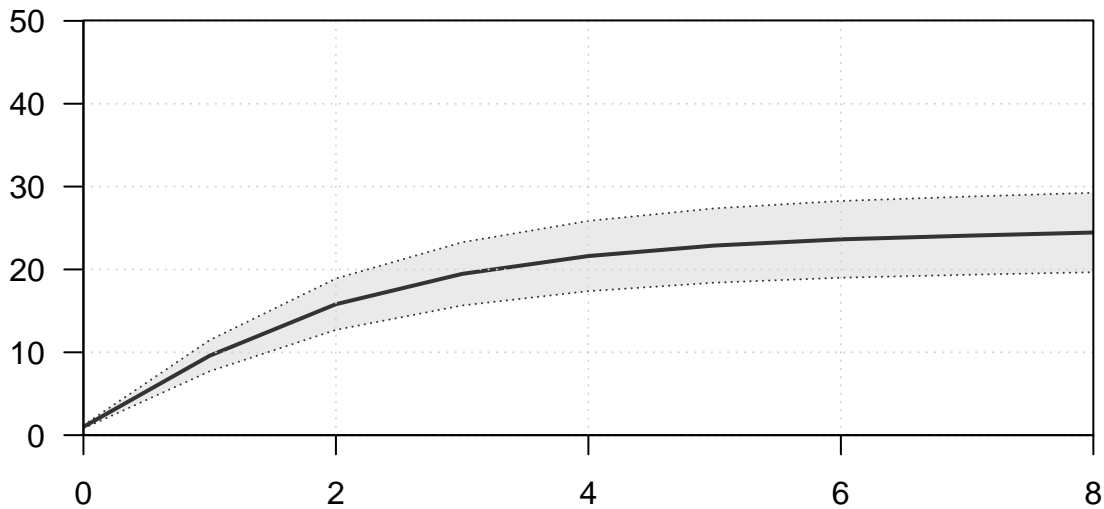
Stock Synthesis version: 3.30.19.0

StartTime: Wed Jun 29 15:08:35 2022

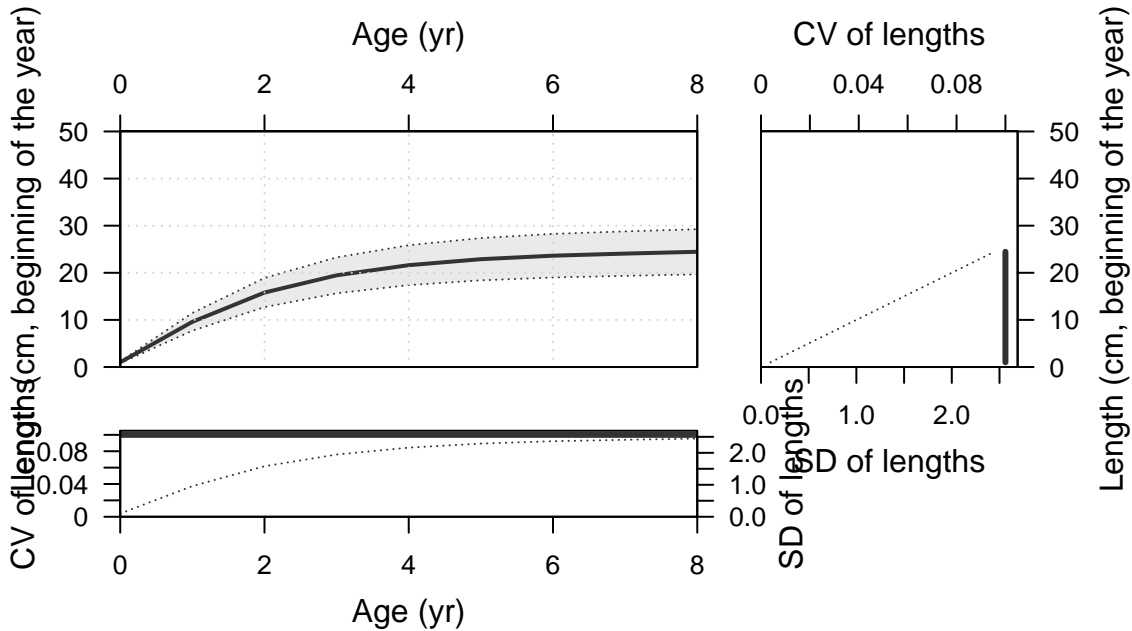
Data\_File: data.ss

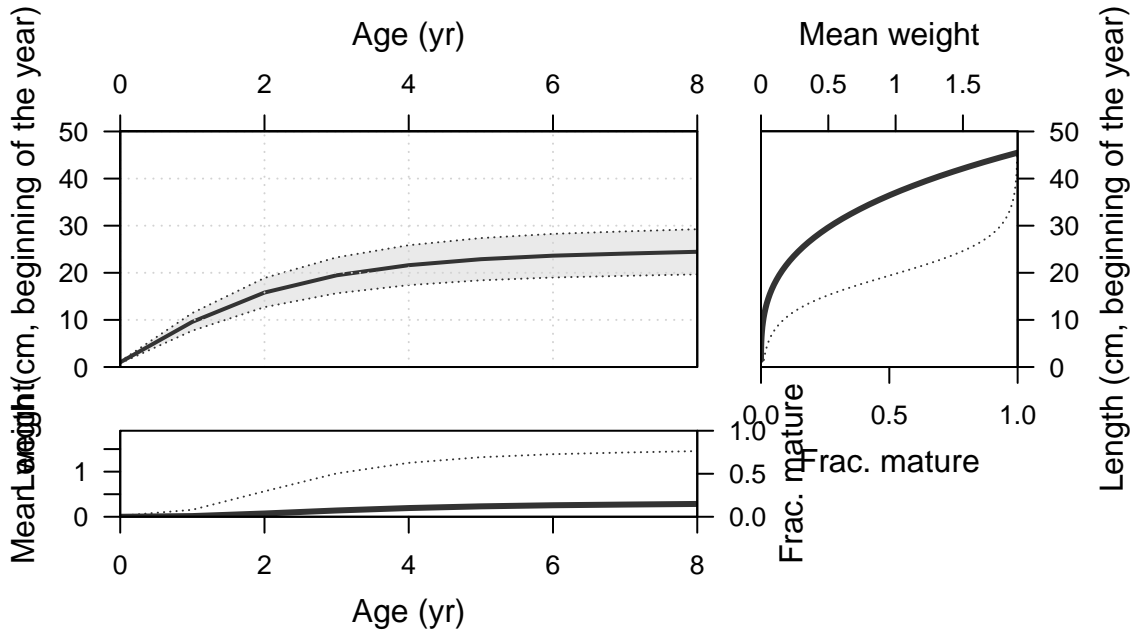
Control\_File: control.ss

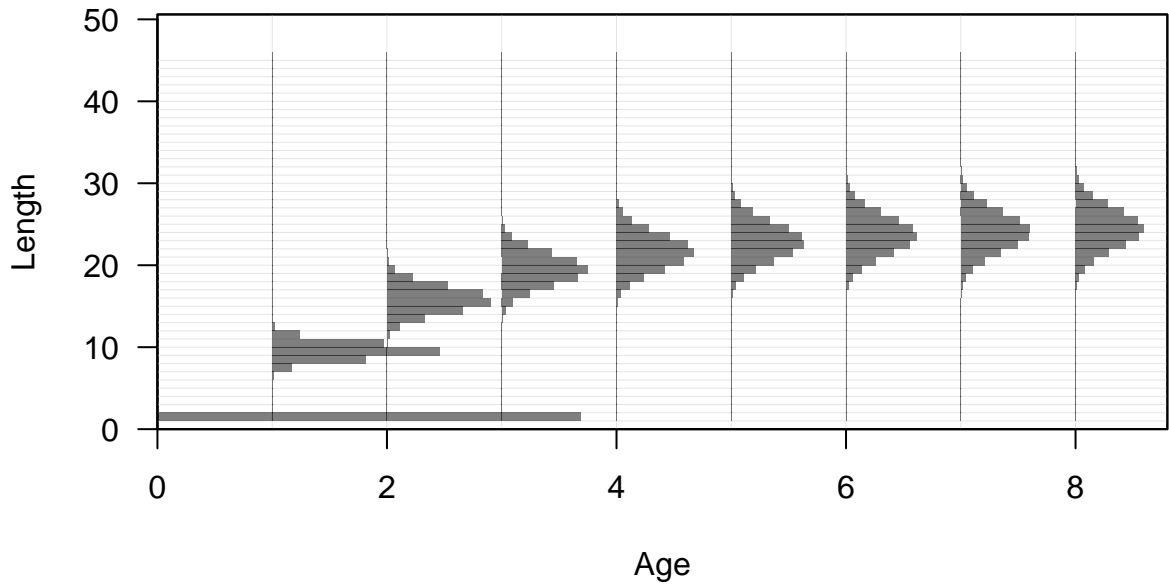
Length (cm, beginning of the year)

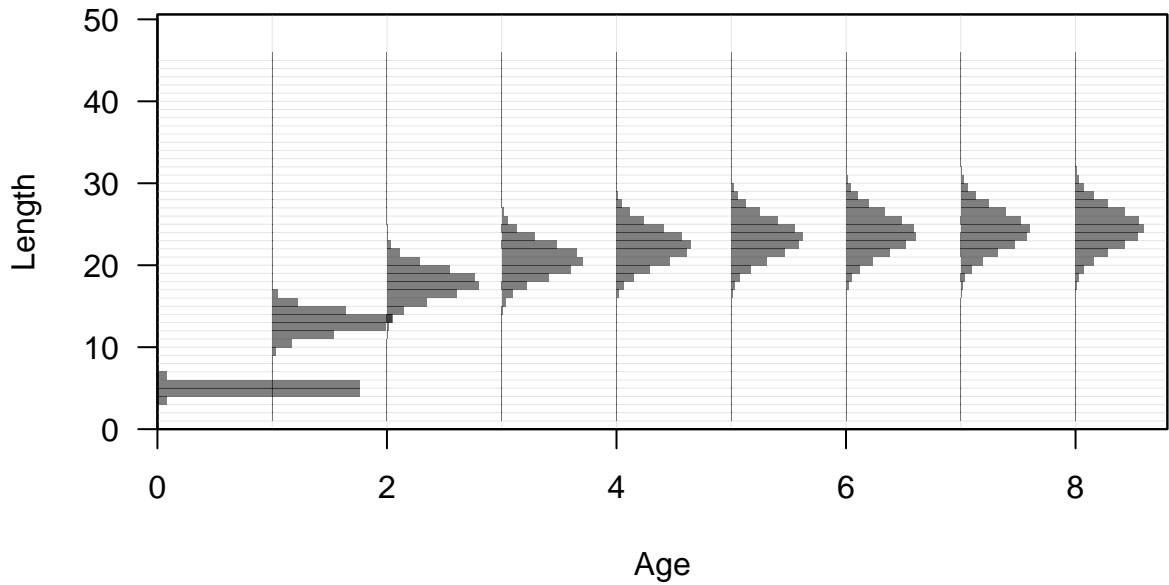


Age (yr)

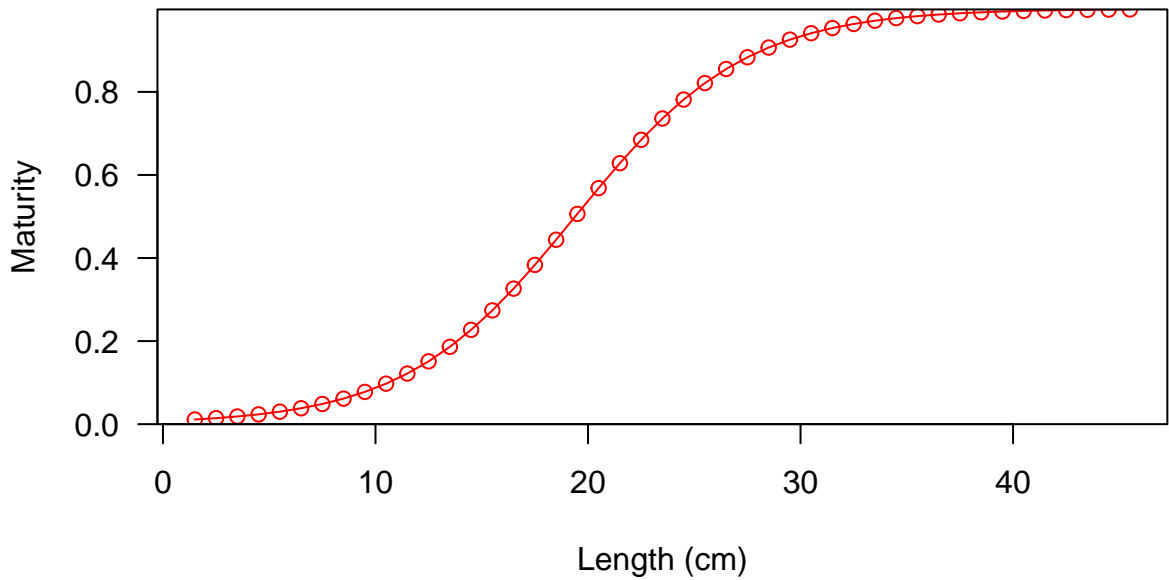






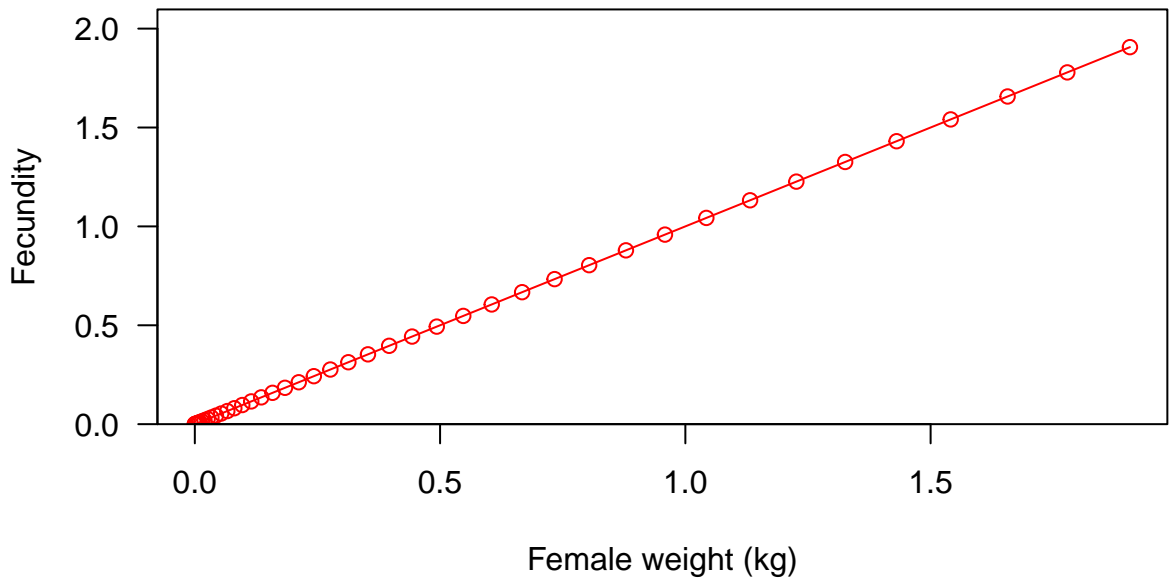




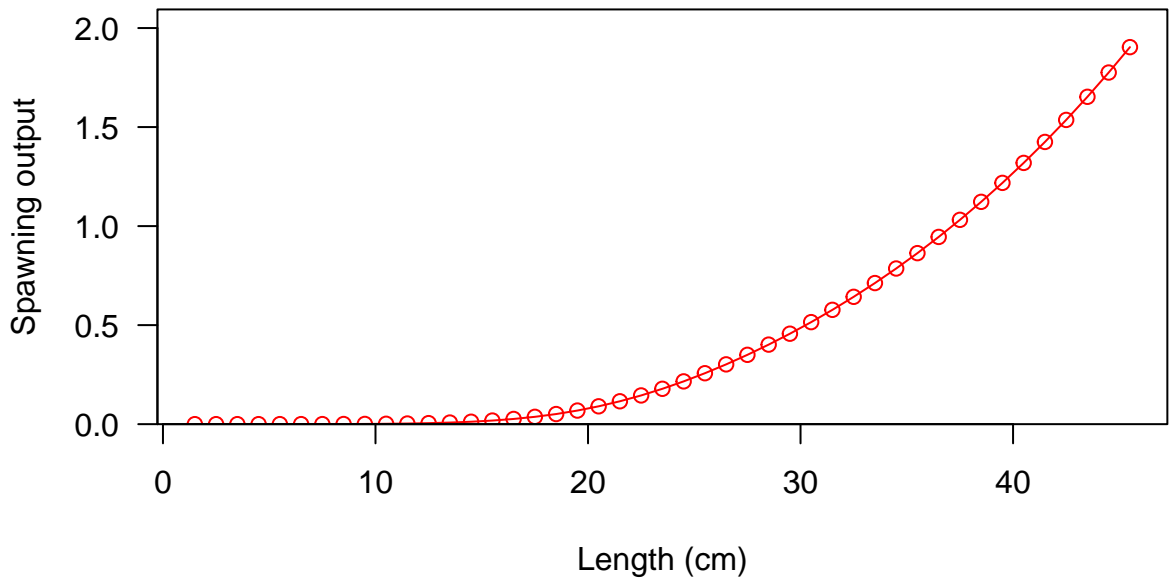


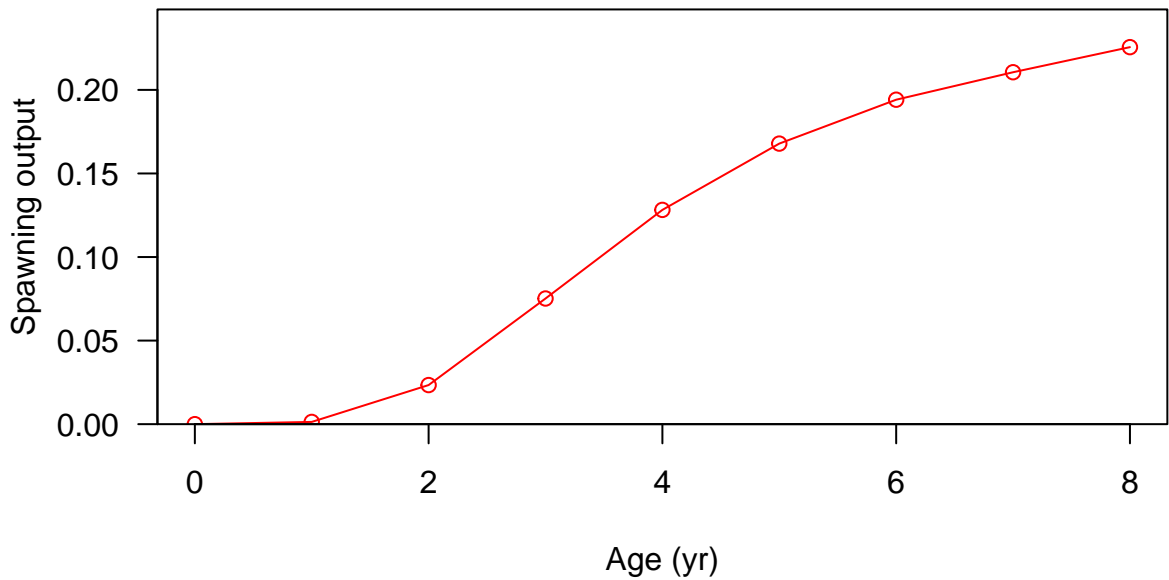




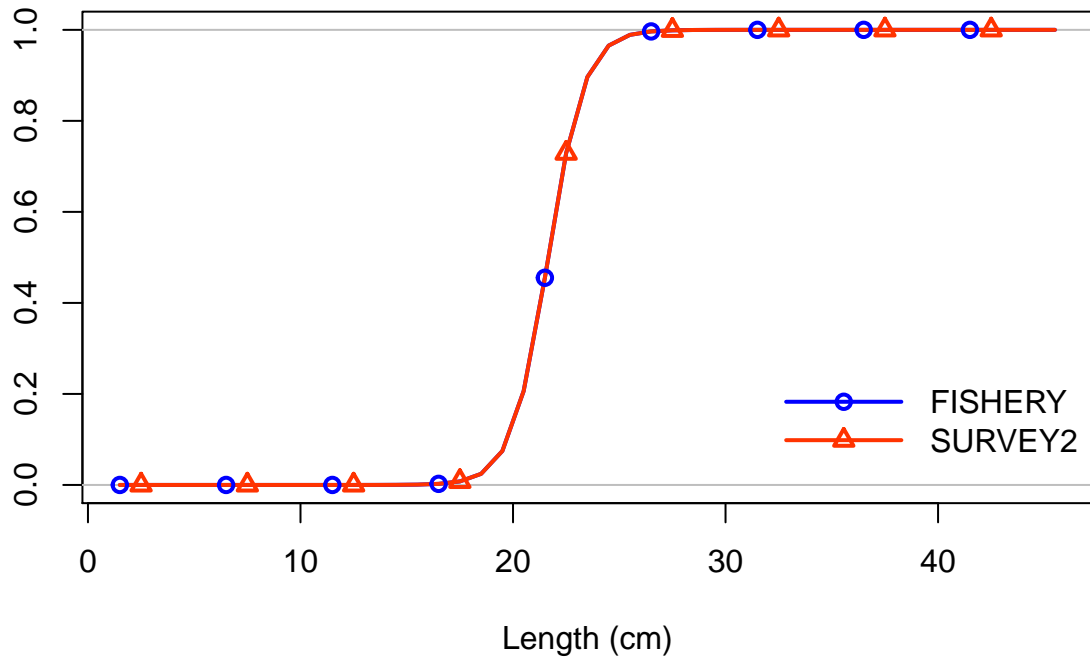




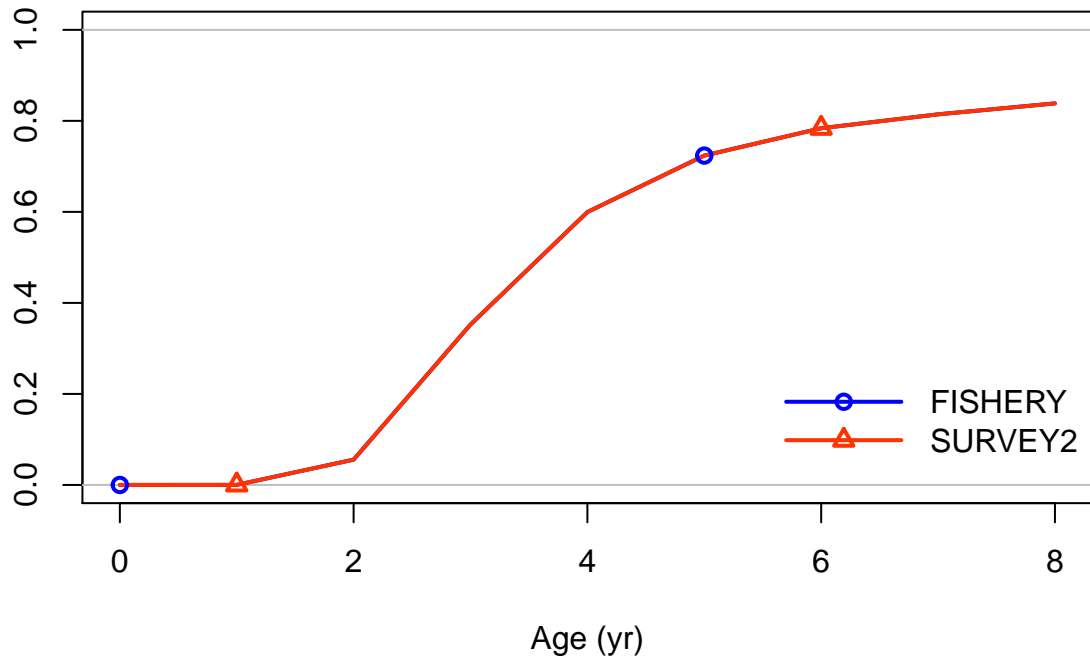




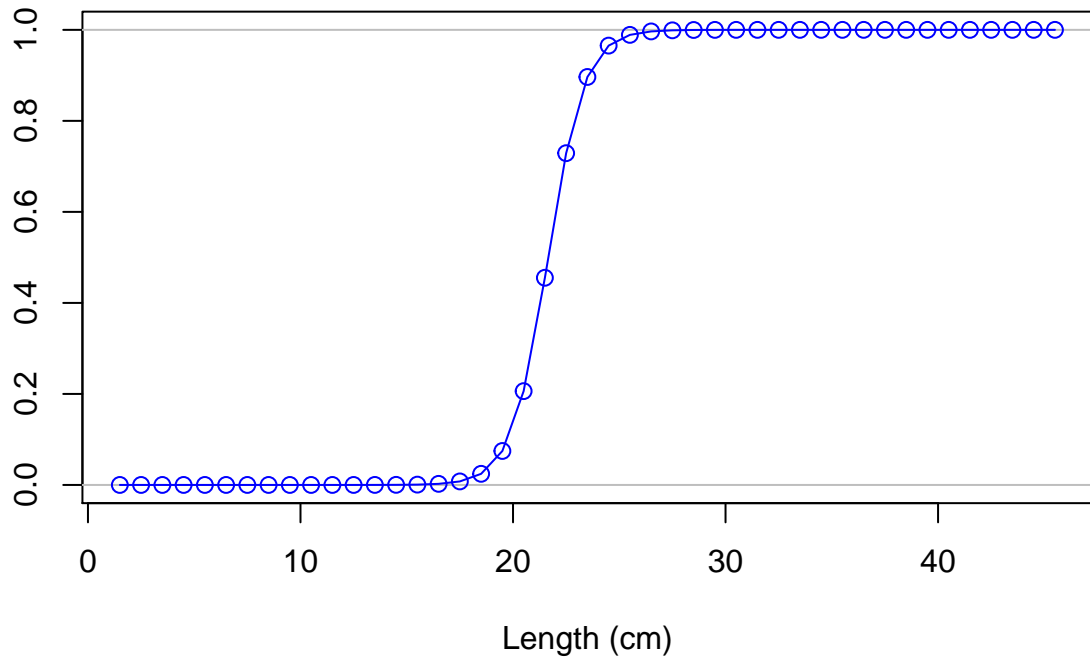
Selectivity



Selectivity

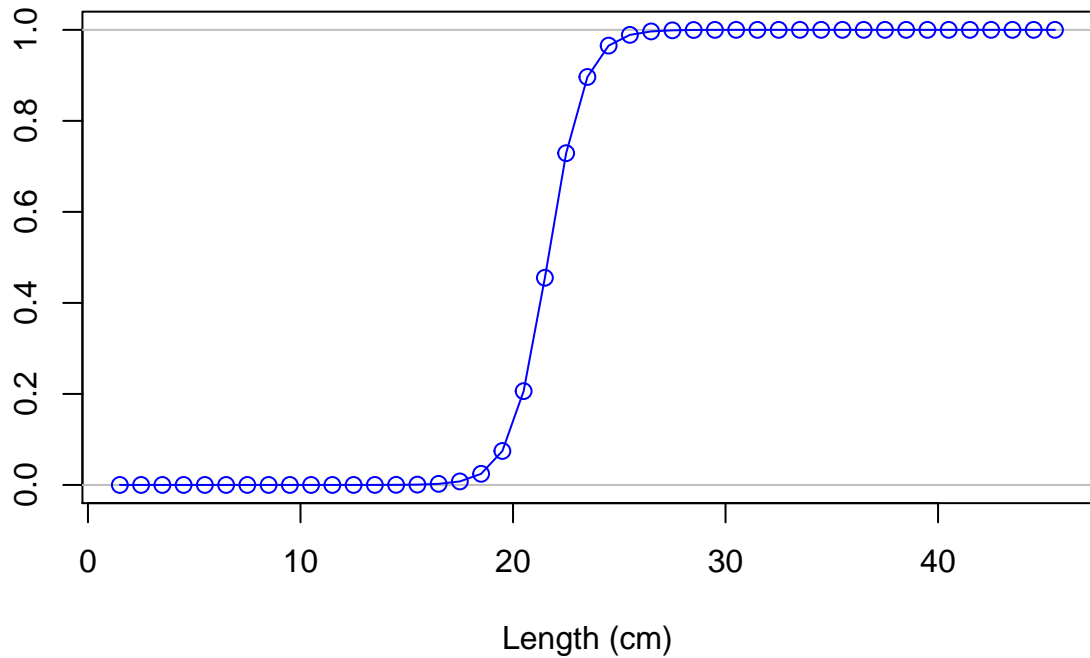


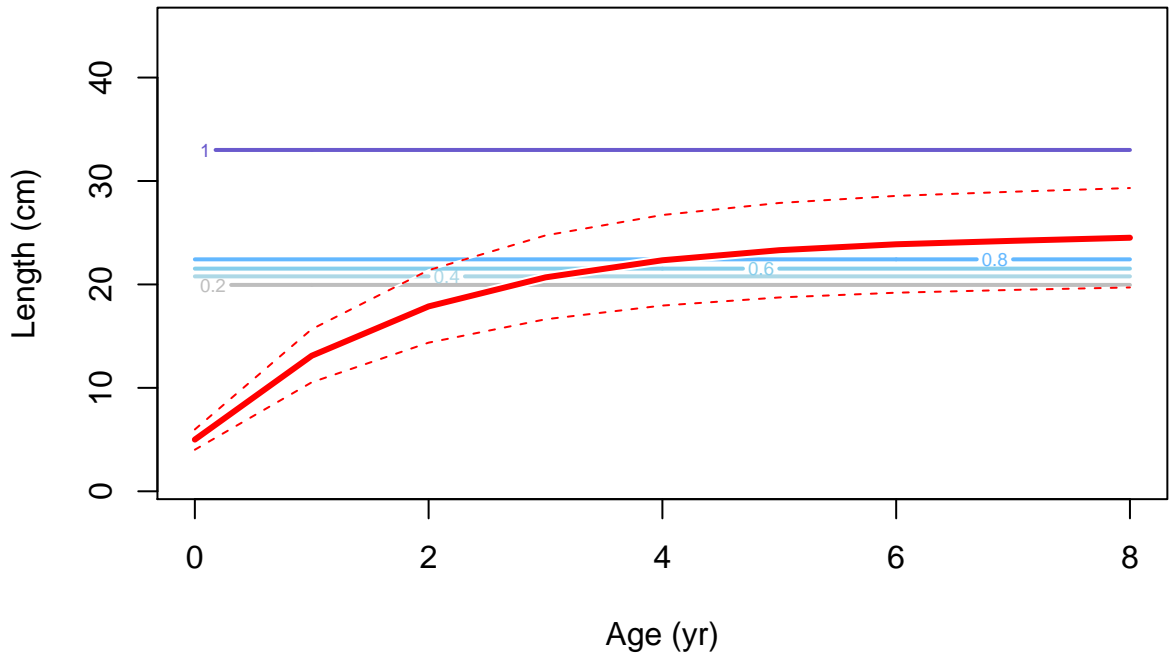
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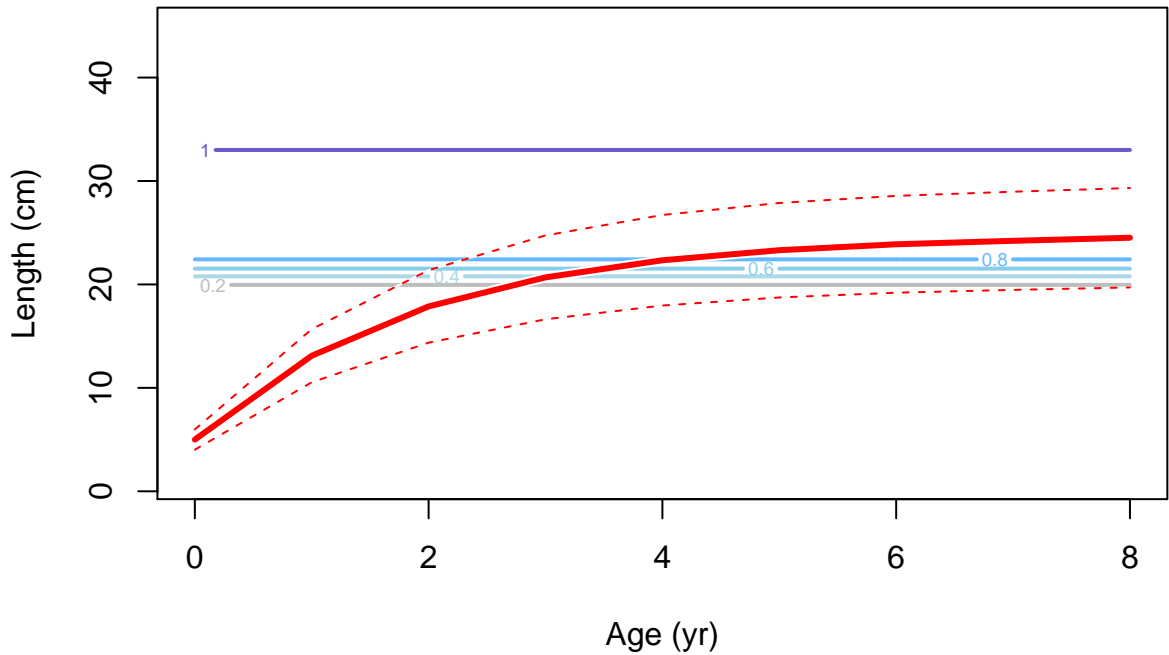




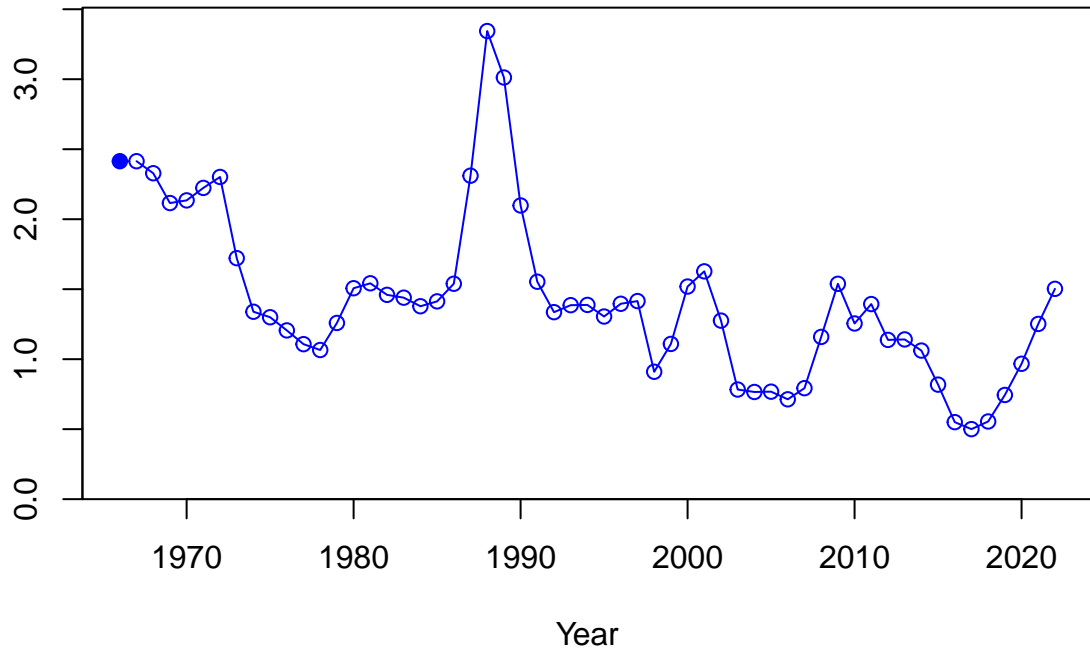
Selectivity



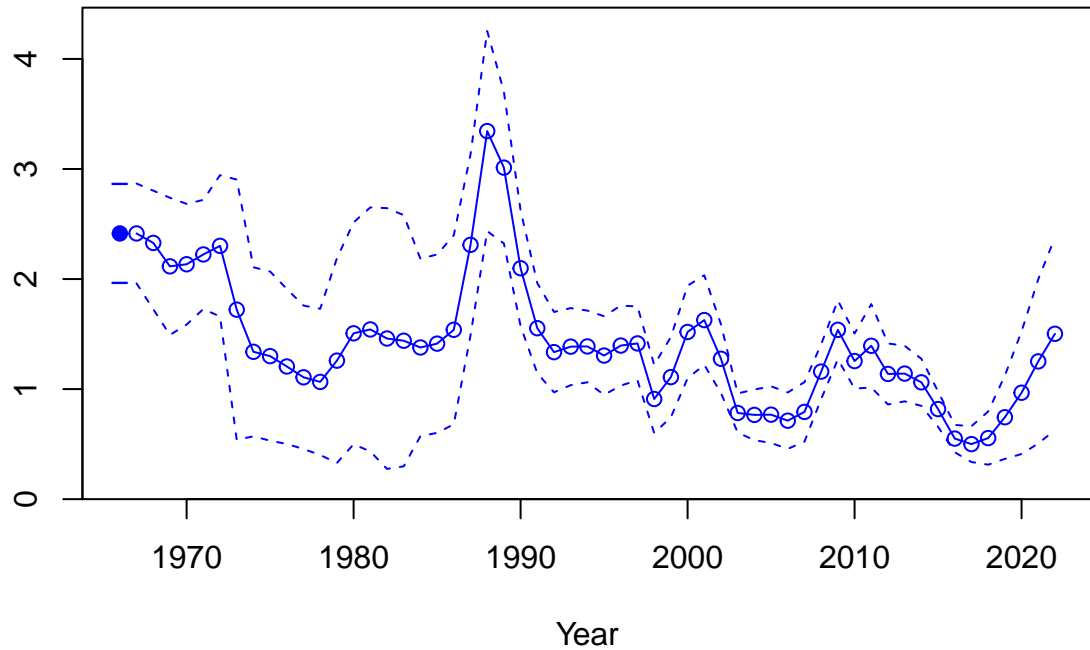




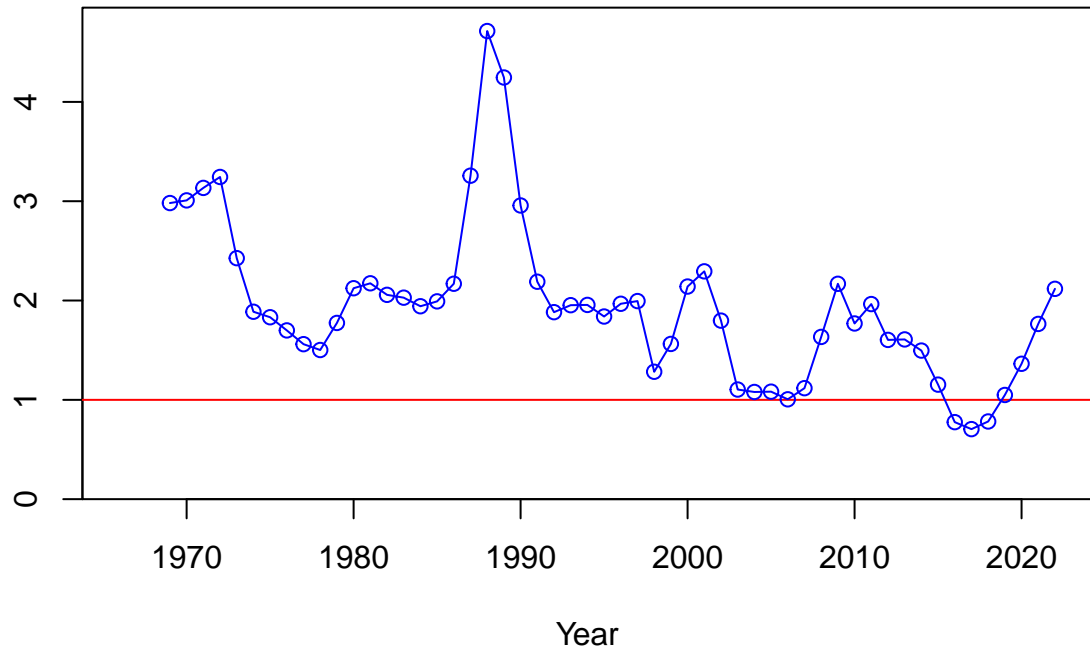
Spawning biomass (mt)



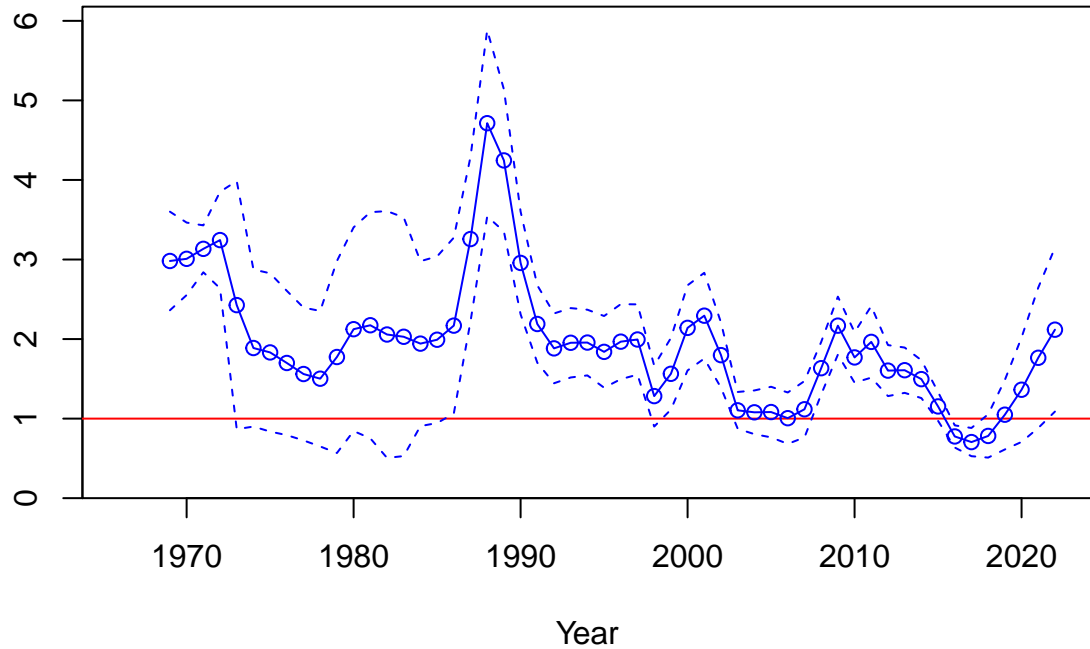
Spawning biomass (mt)

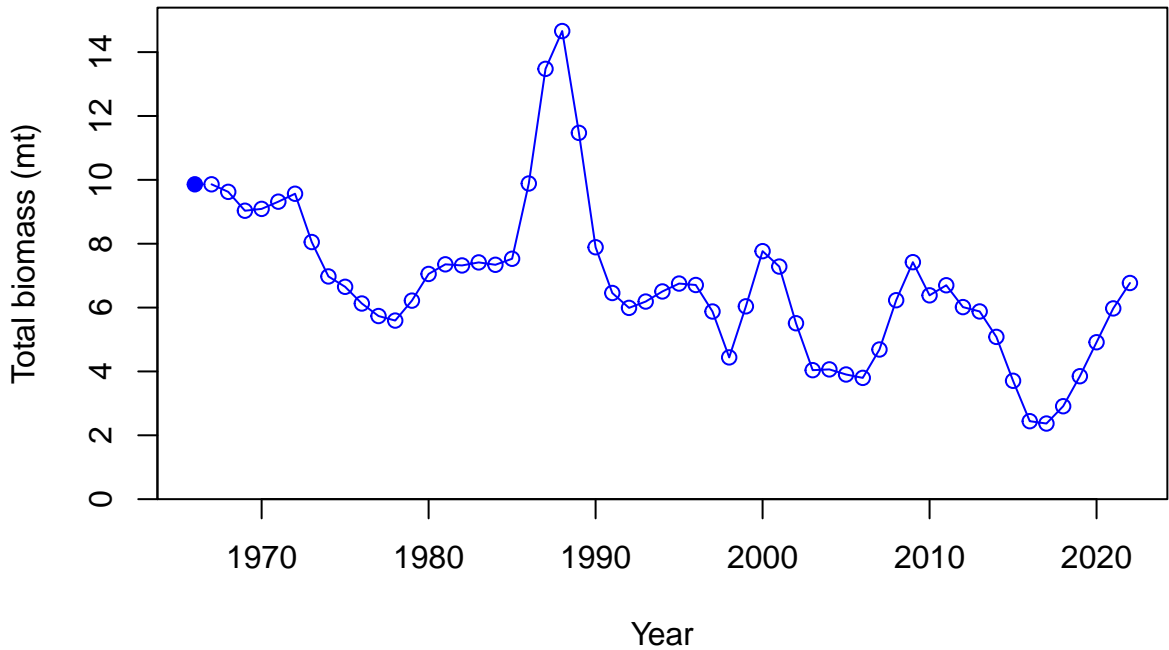


Relative spawning biomass:  $B/B_{MSY}$



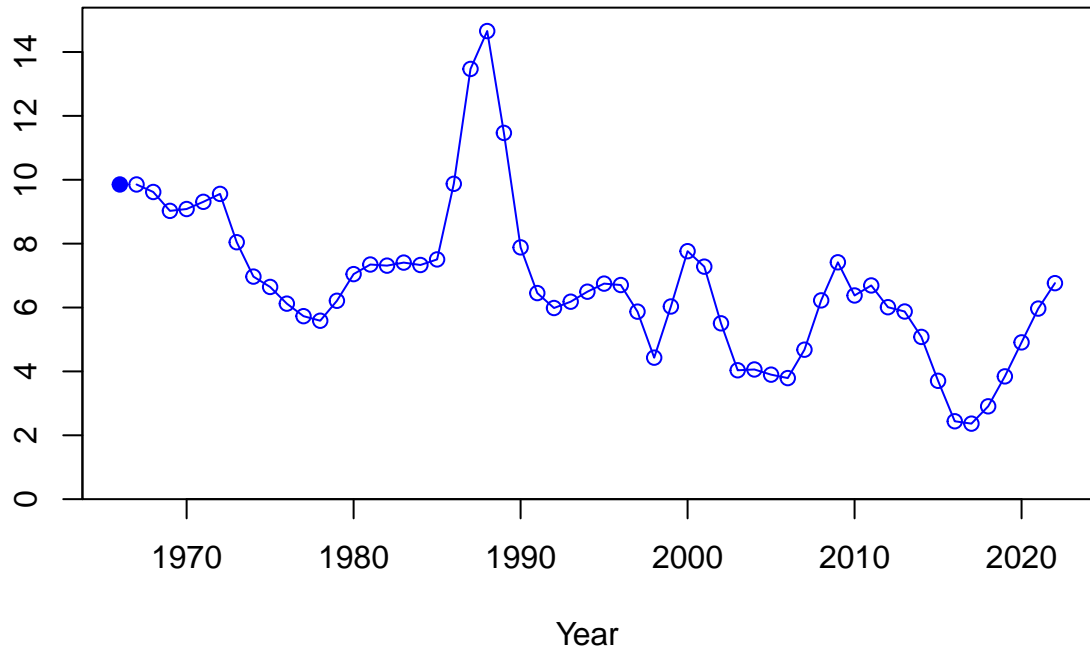
Relative spawning biomass:  $B/B_{MSY}$

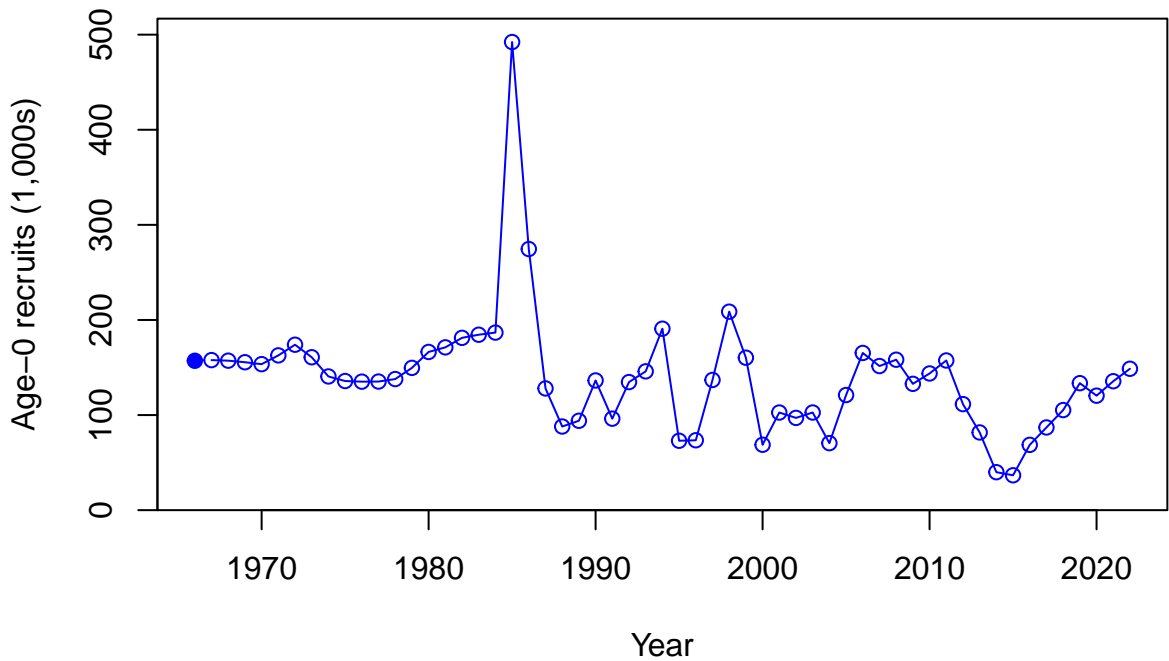


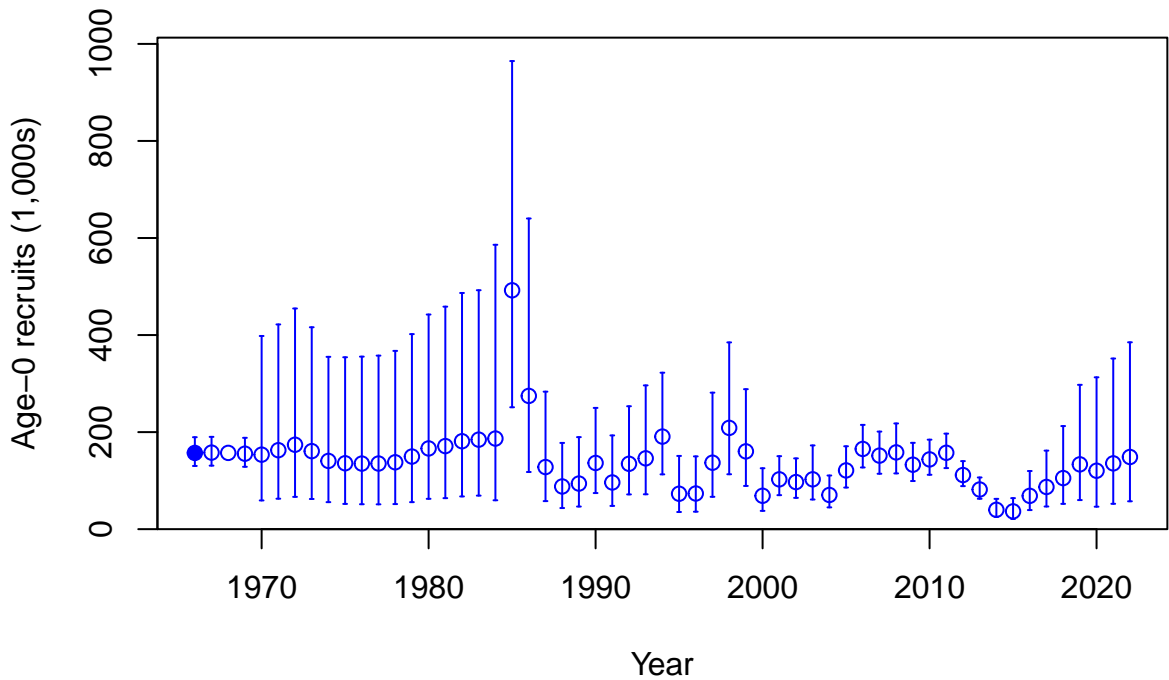




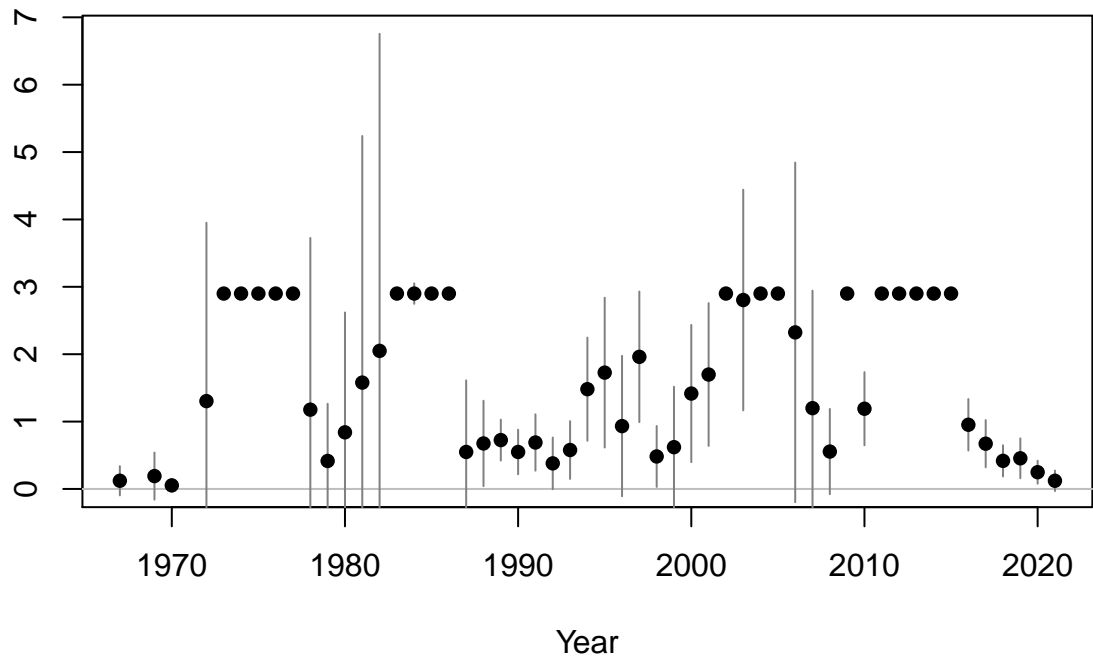
Summary biomass (mt)

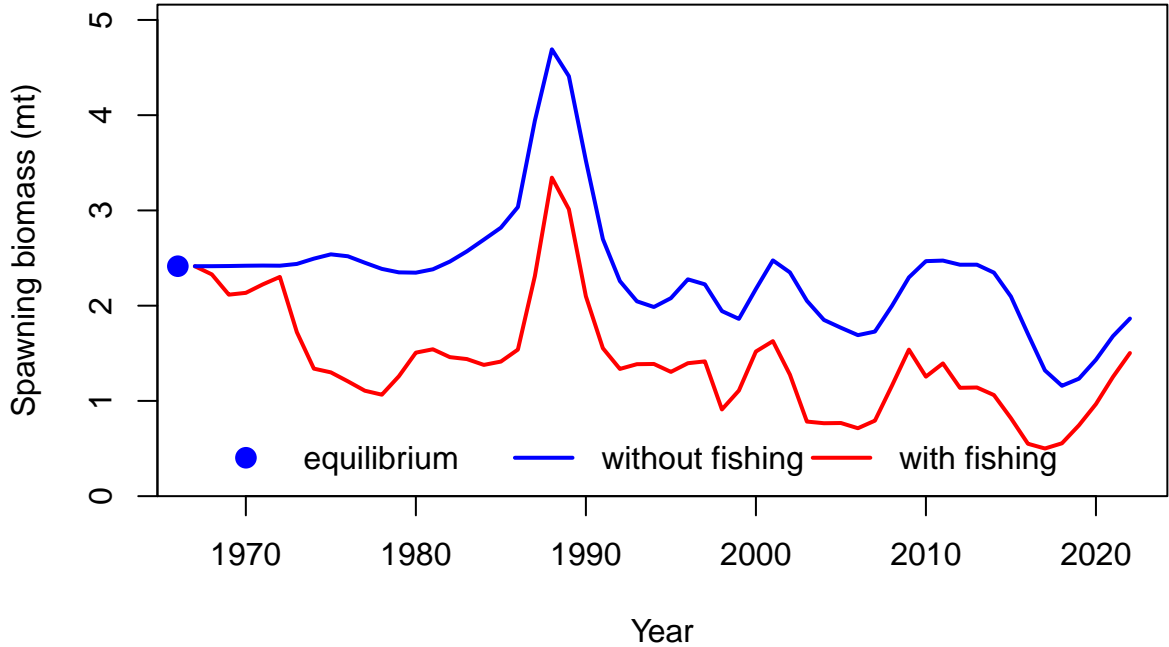




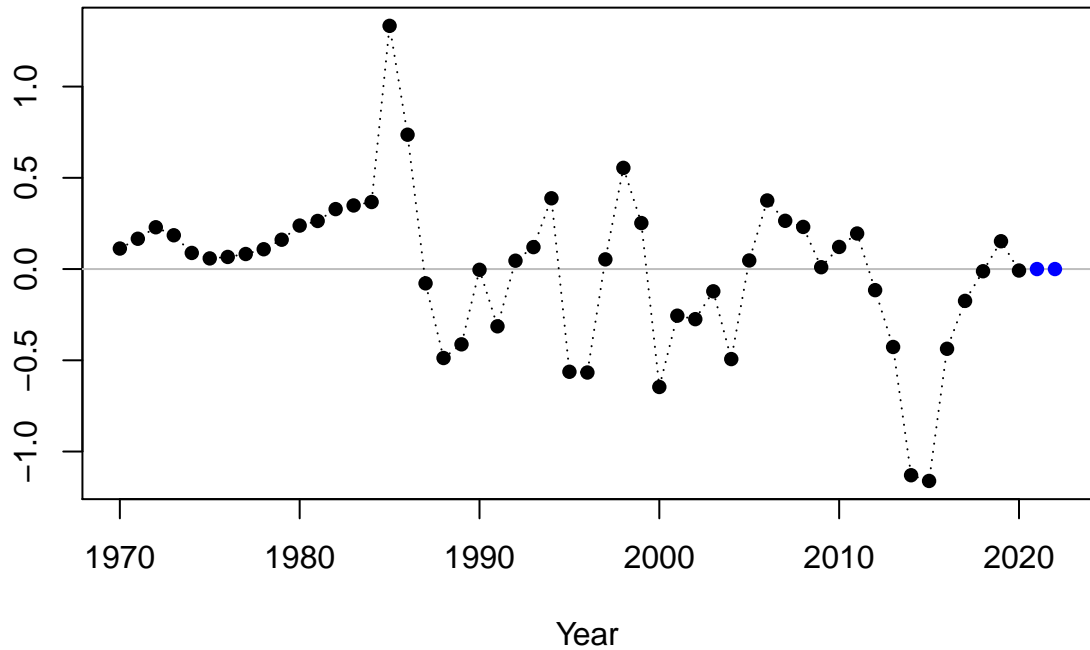


Summary Fishing Mortality

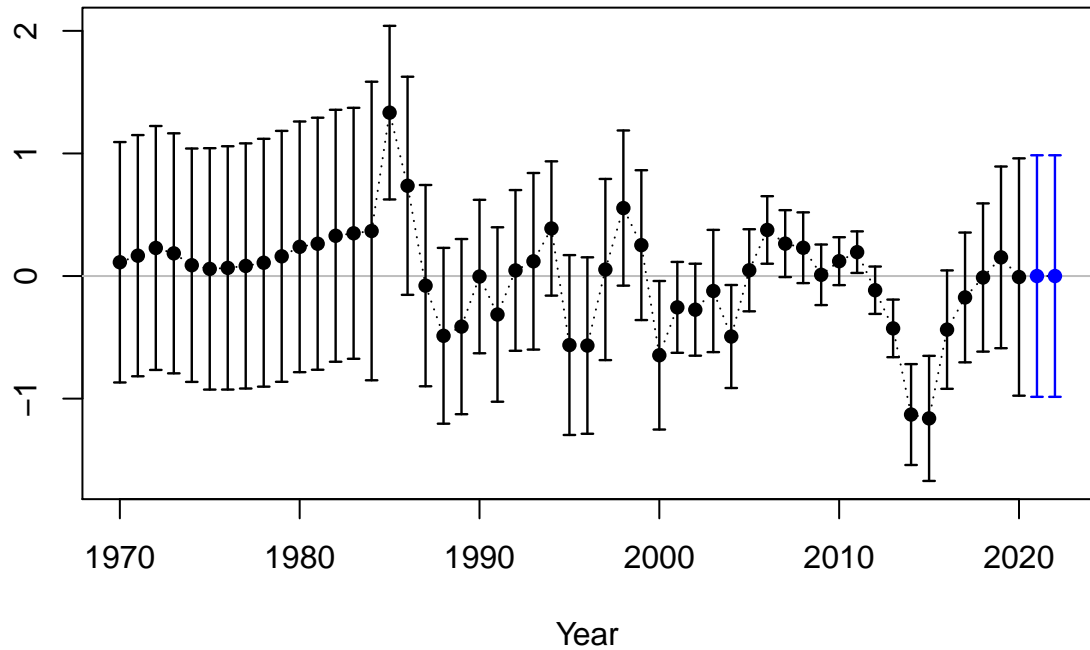




Log recruitment deviation

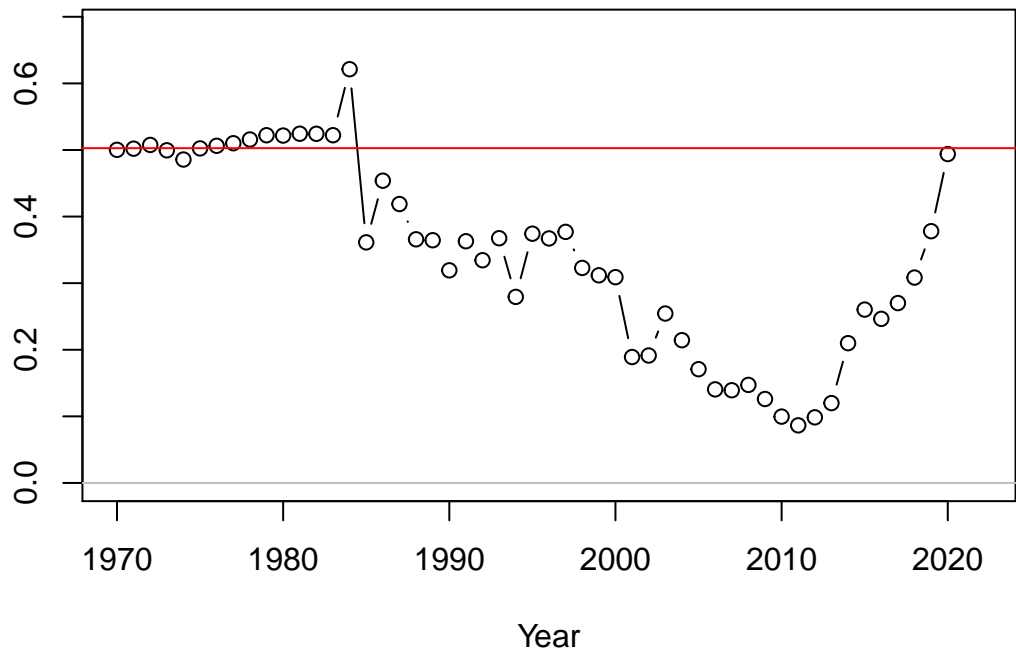


Log recruitment deviation

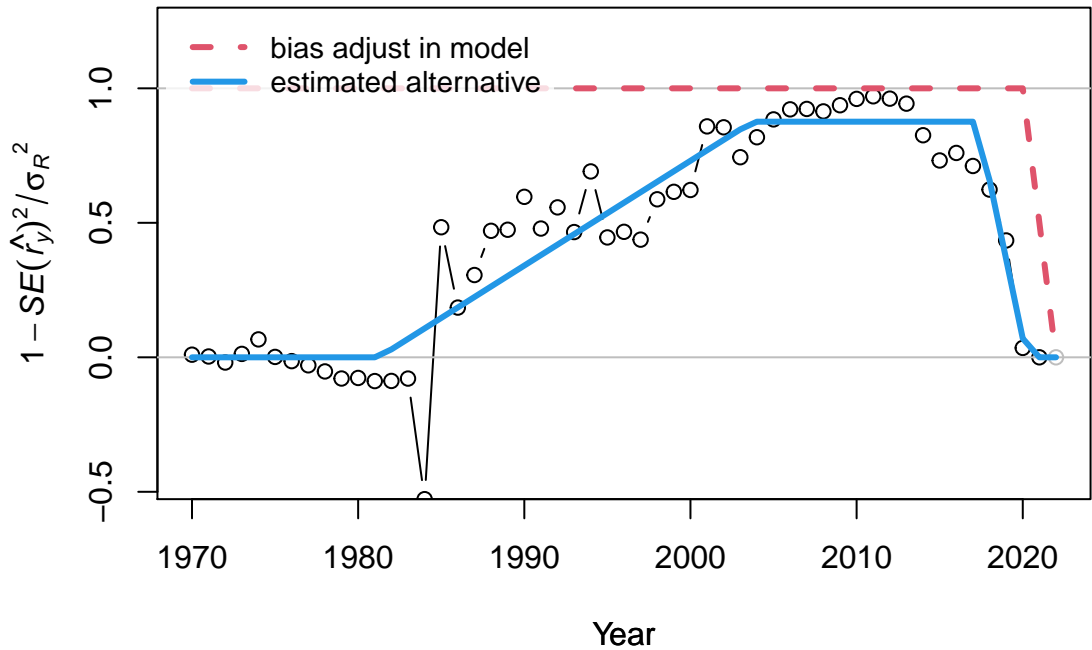


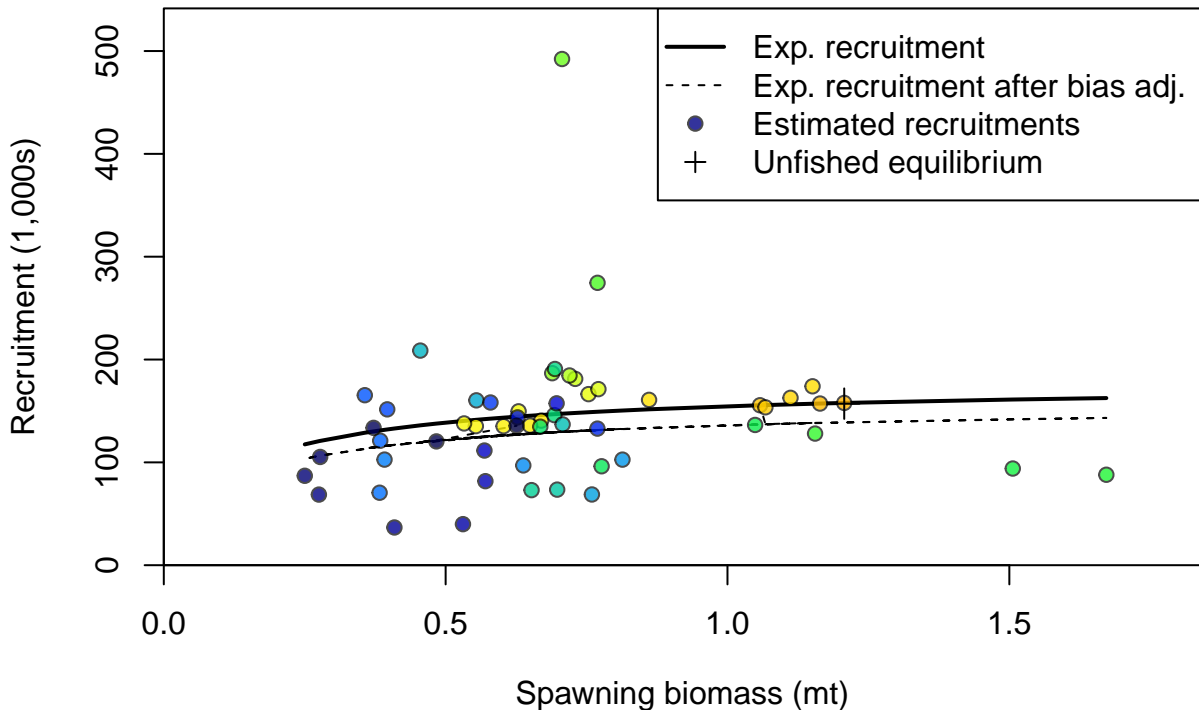
## Recruitment deviation variance

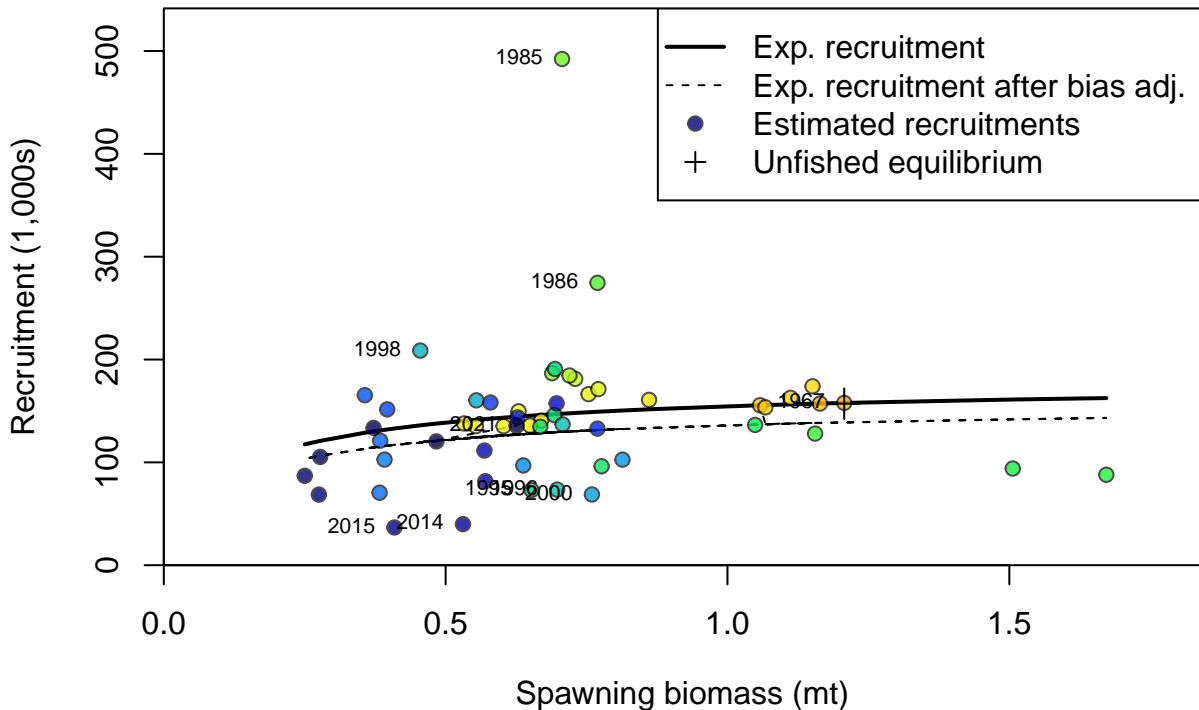
Asymptotic standard error estimate



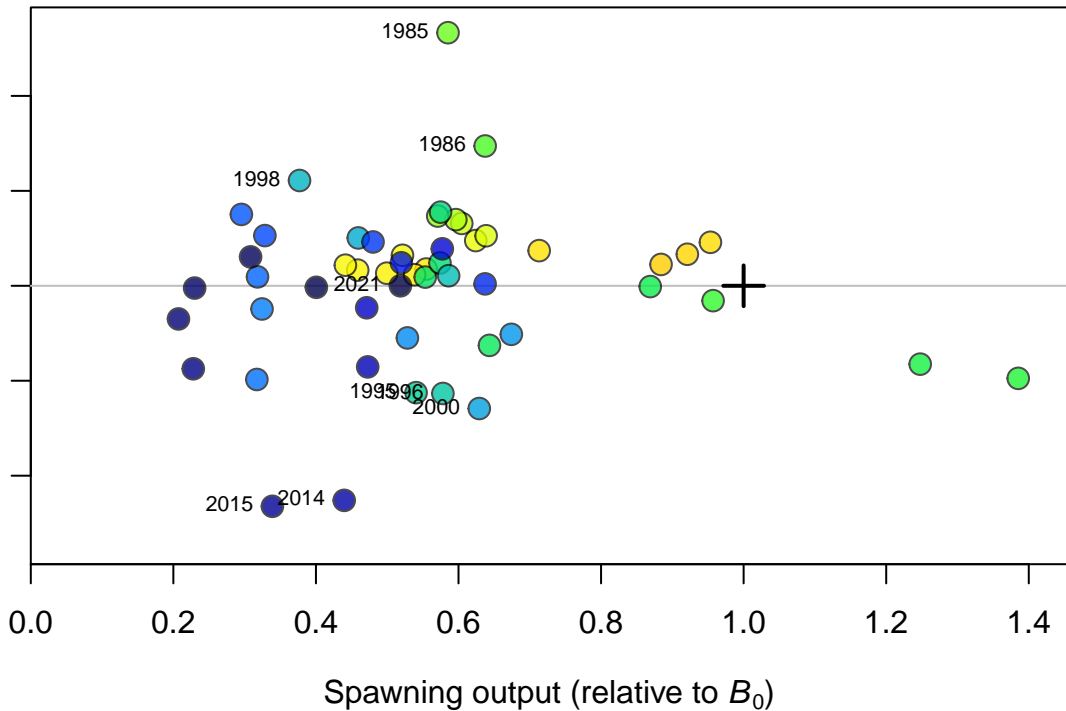


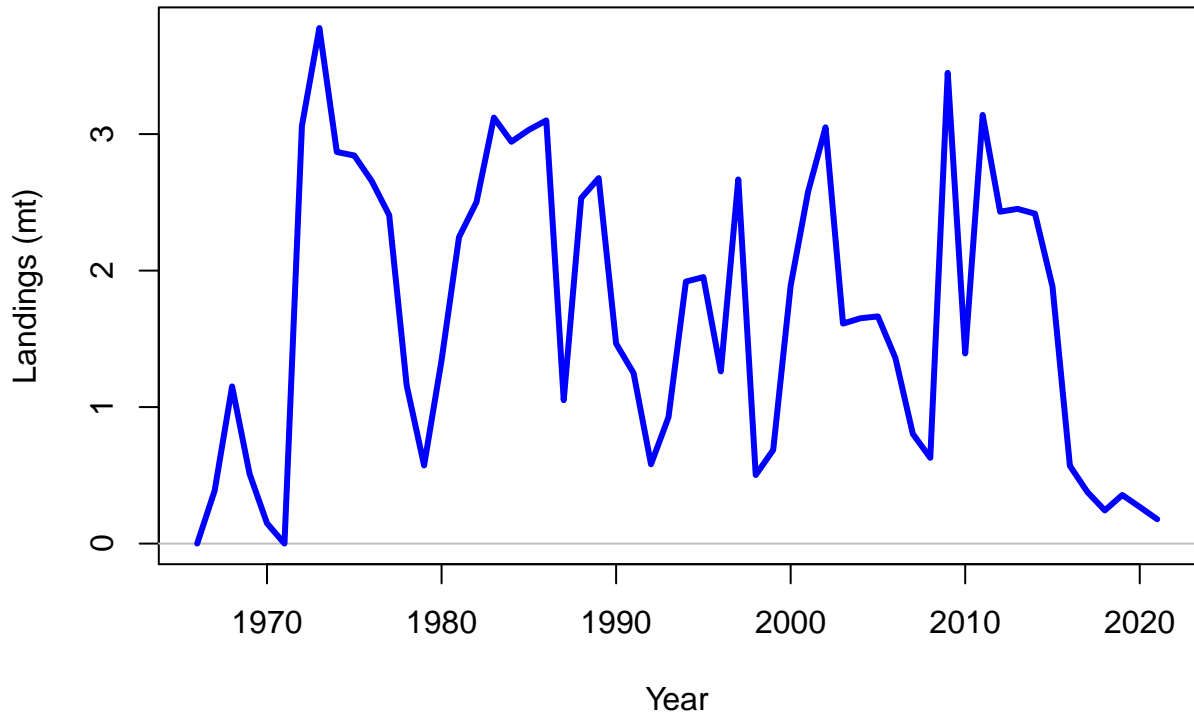


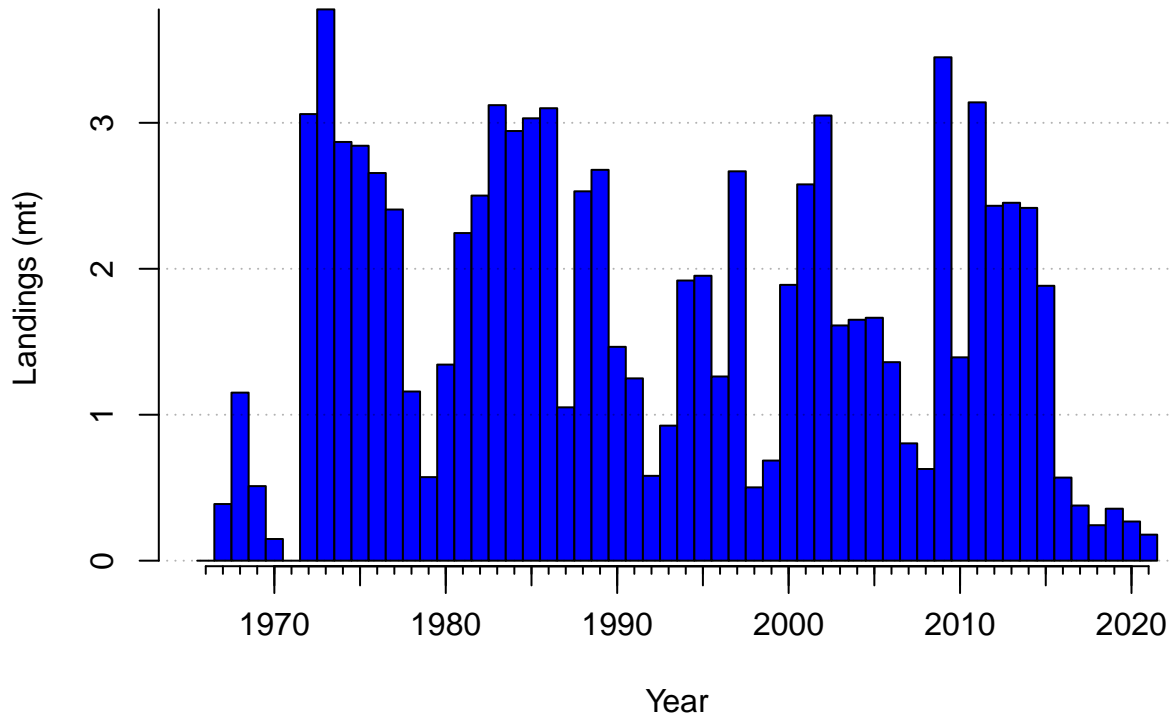




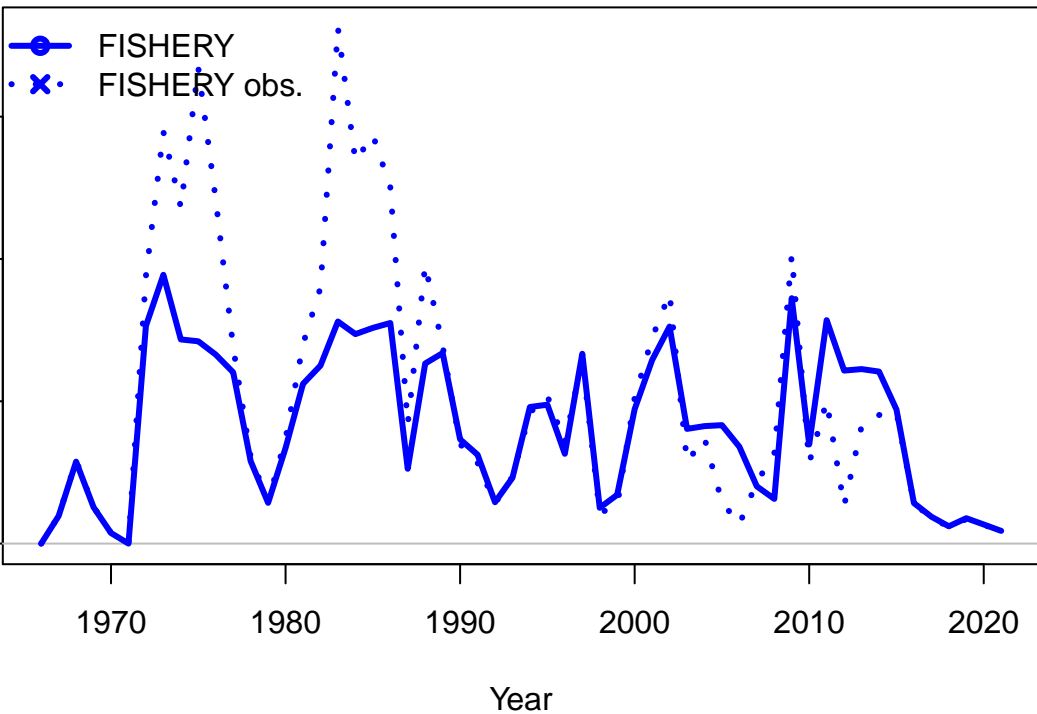
Log recruitment deviation

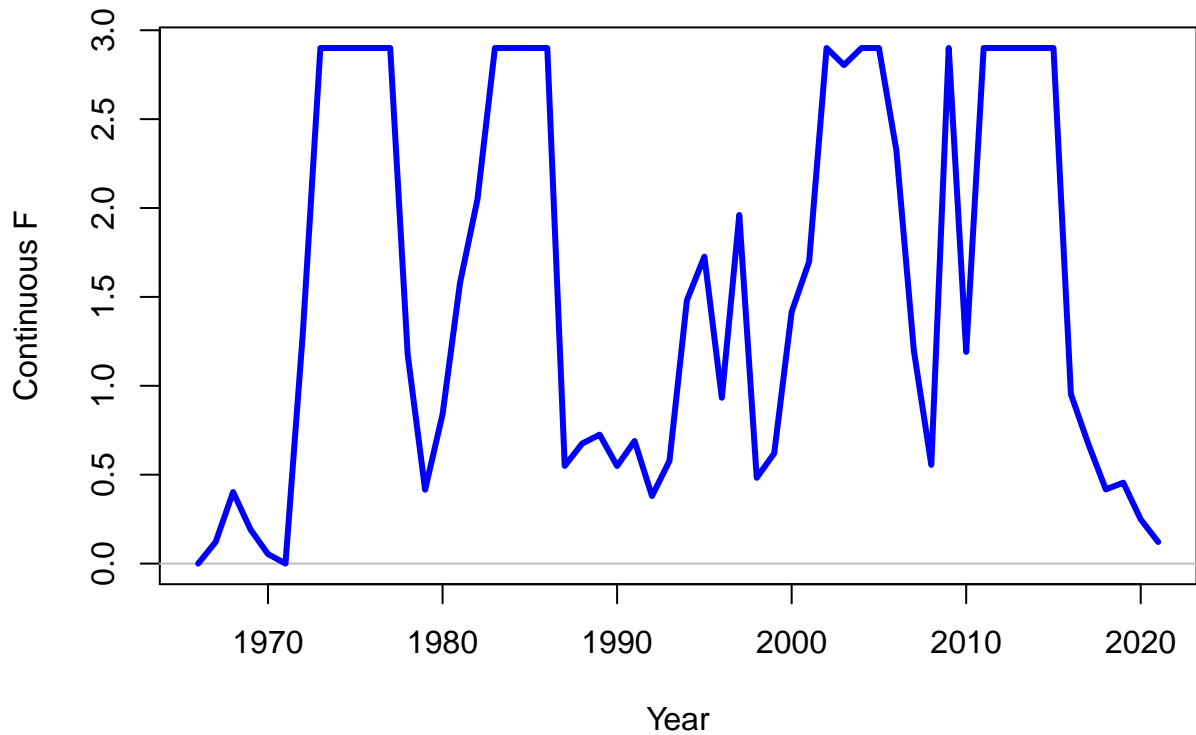






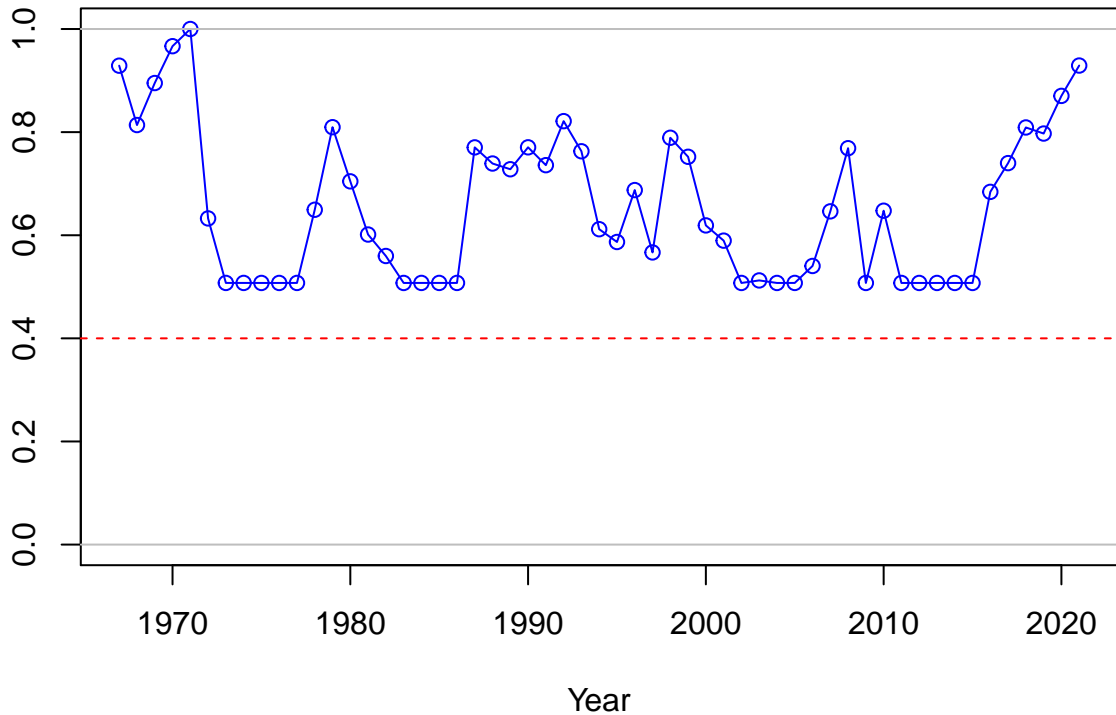
Observed and expected Landings (mt)



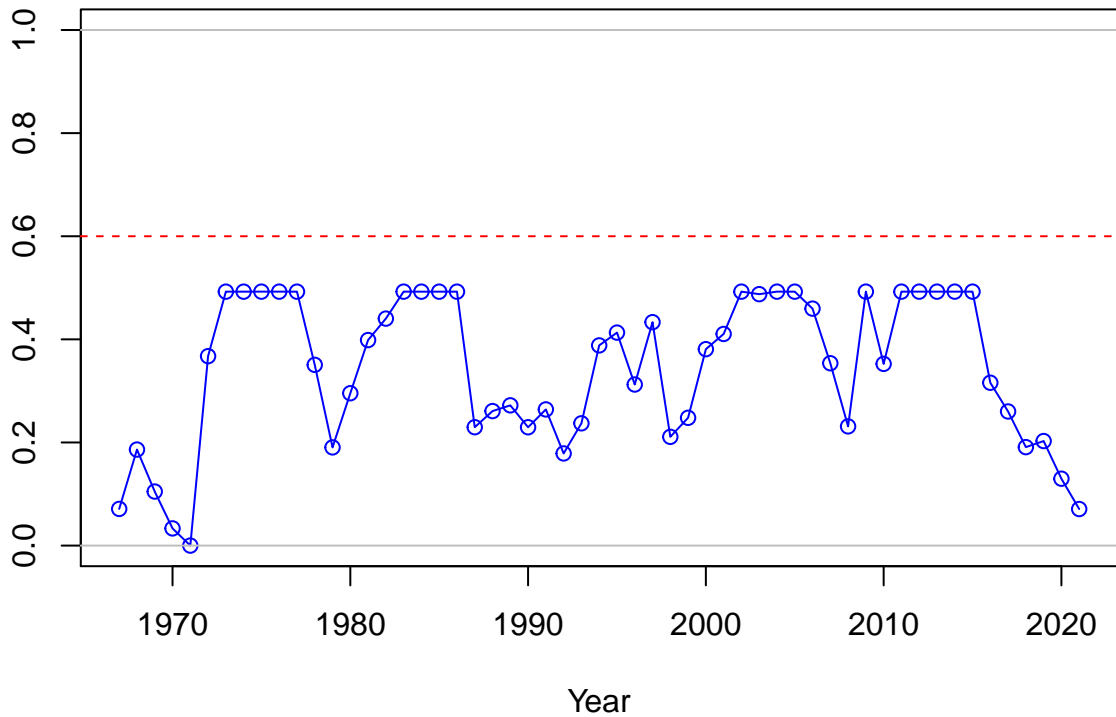




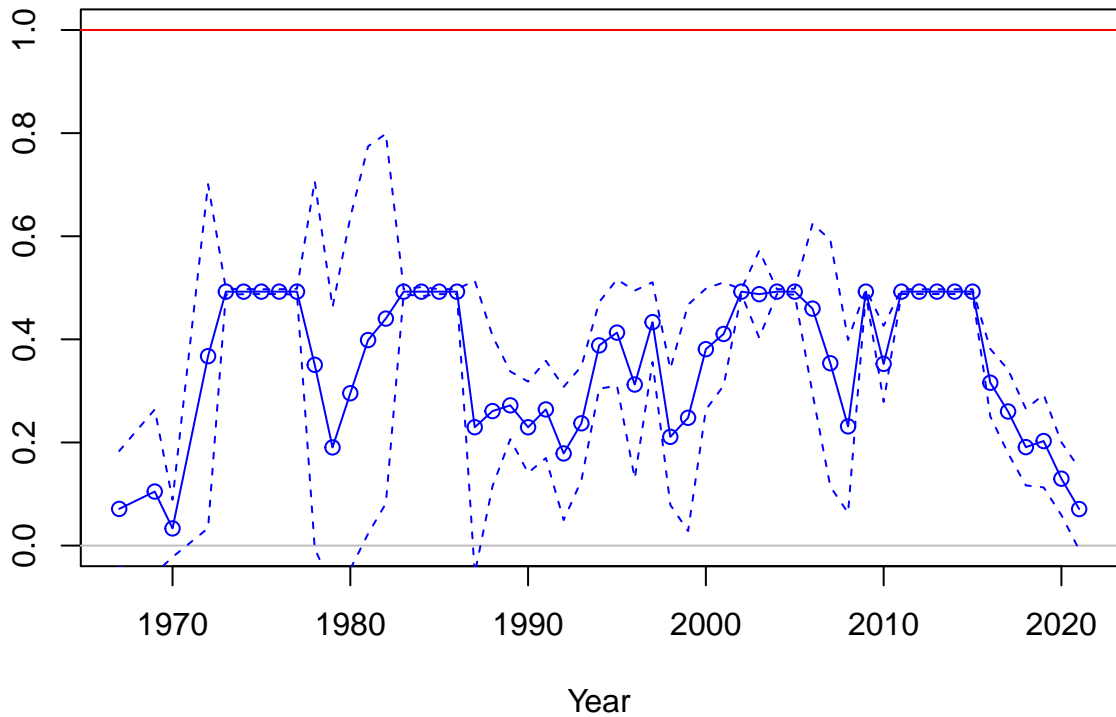
SPR



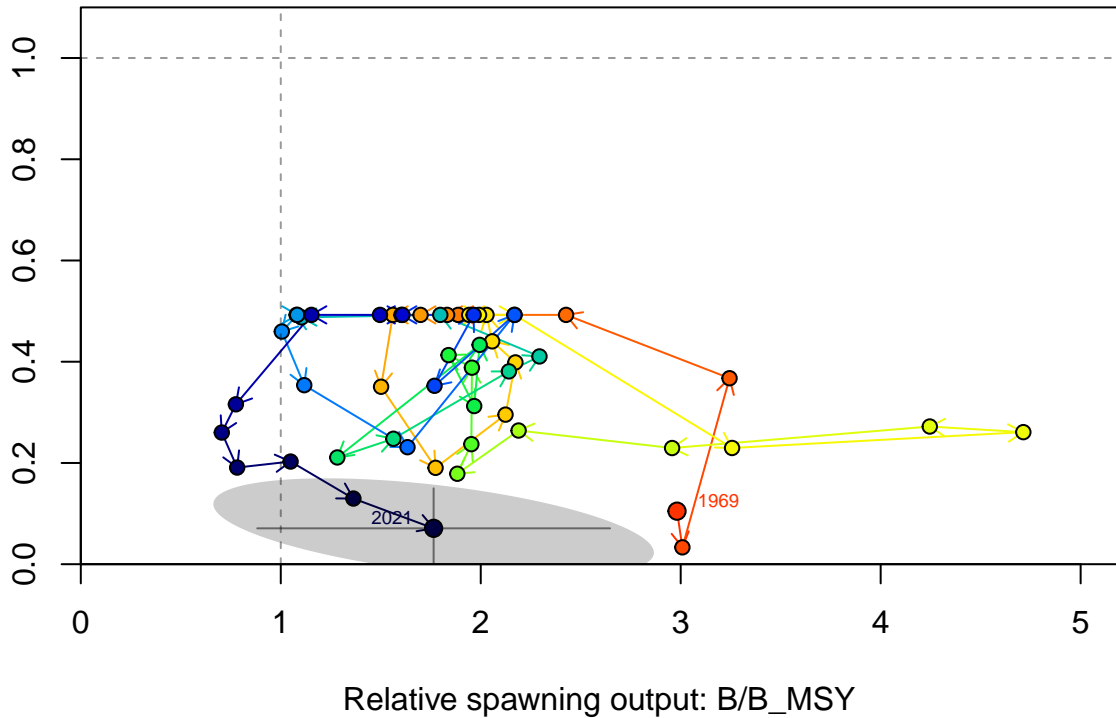
1-SPR



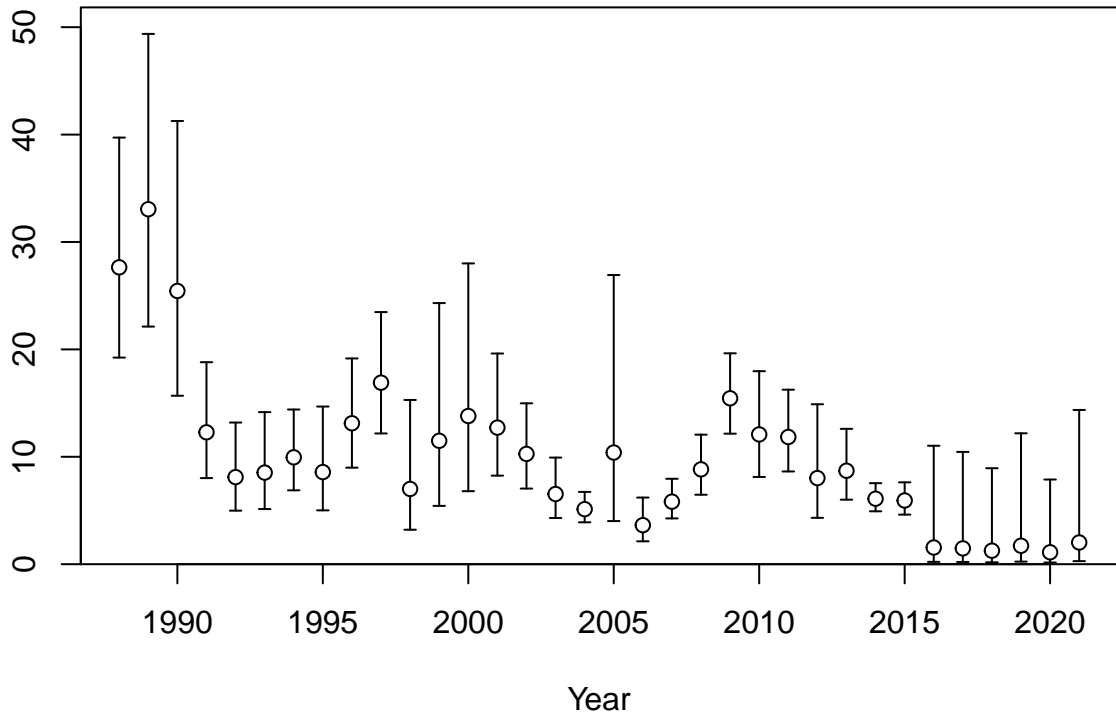
Fishing intensity: 1-SPR



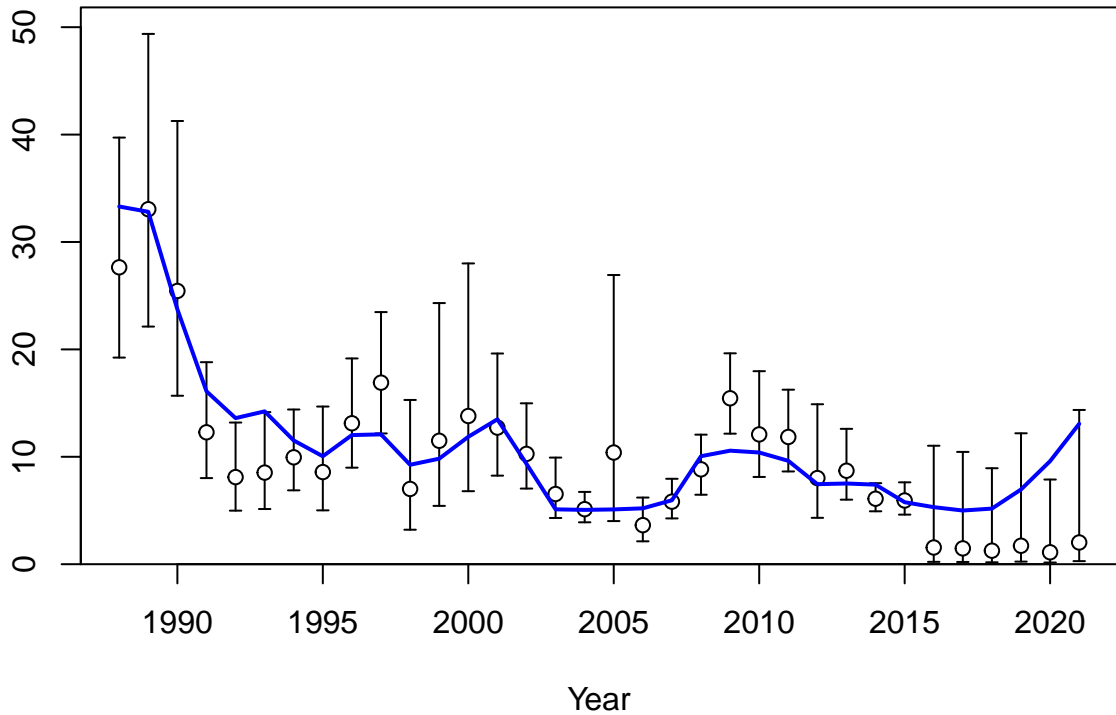
Fishing intensity: 1-SPR

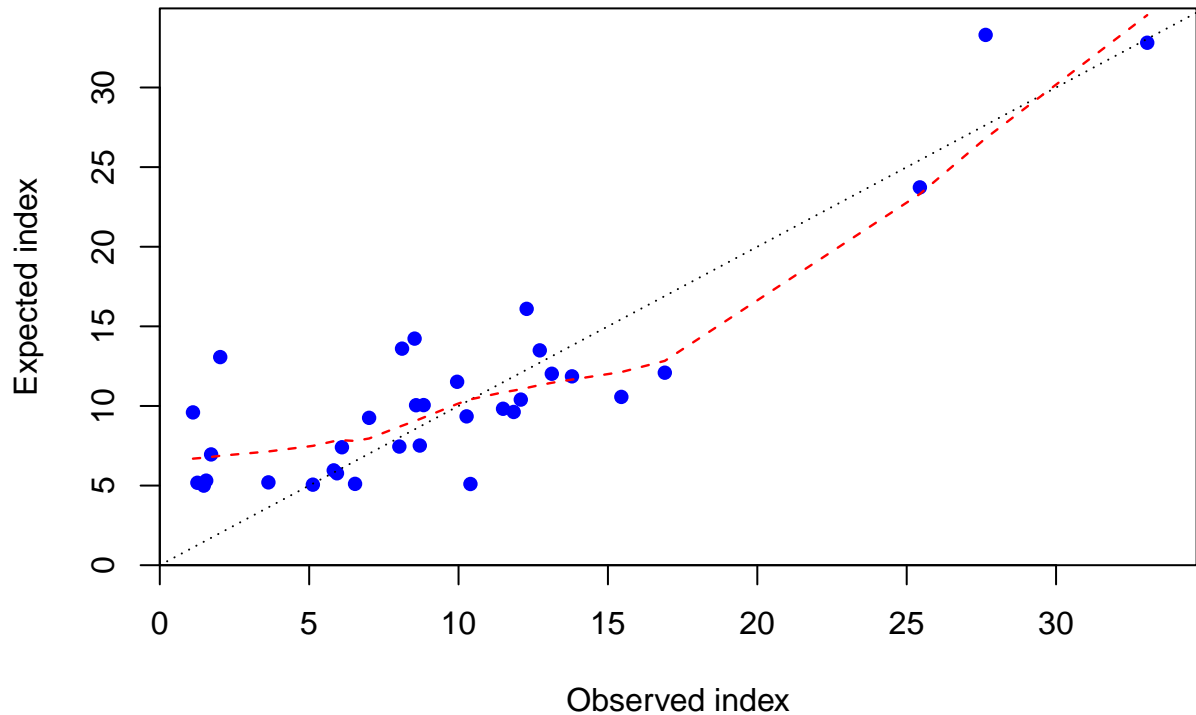


Index

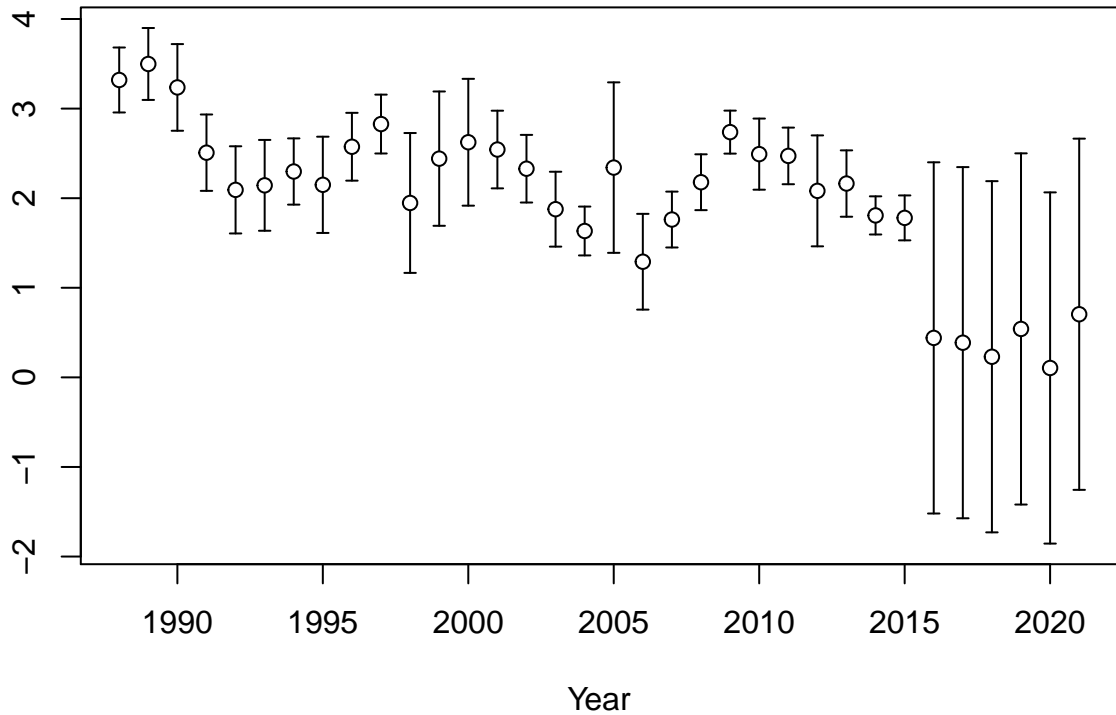


Index



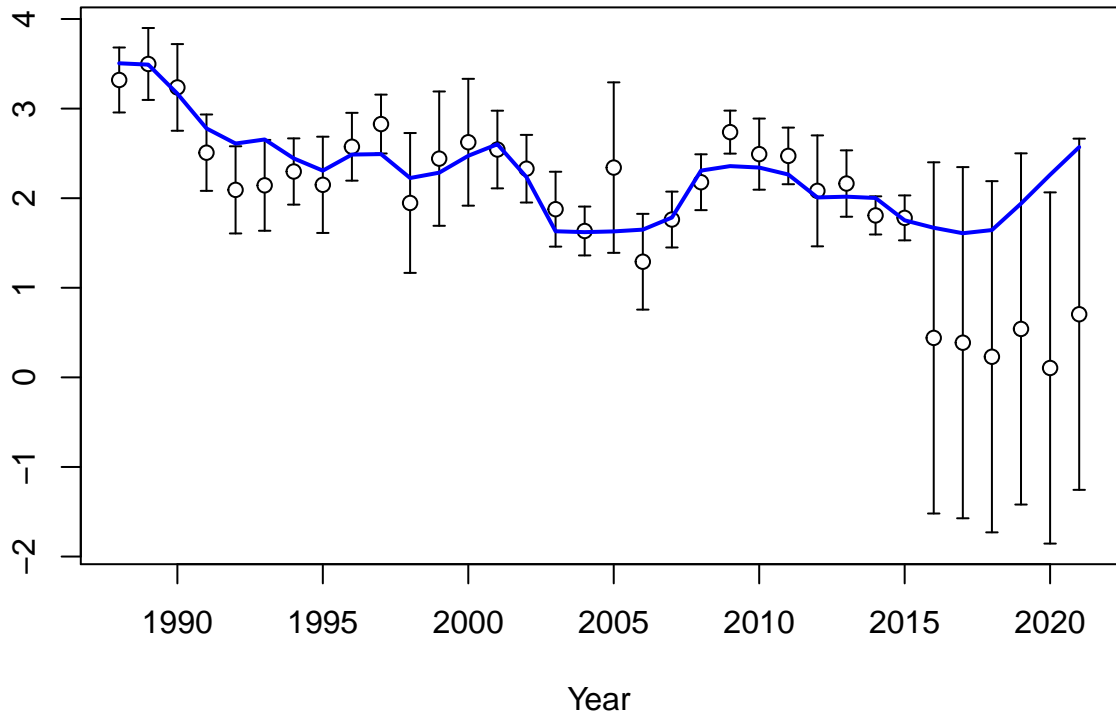


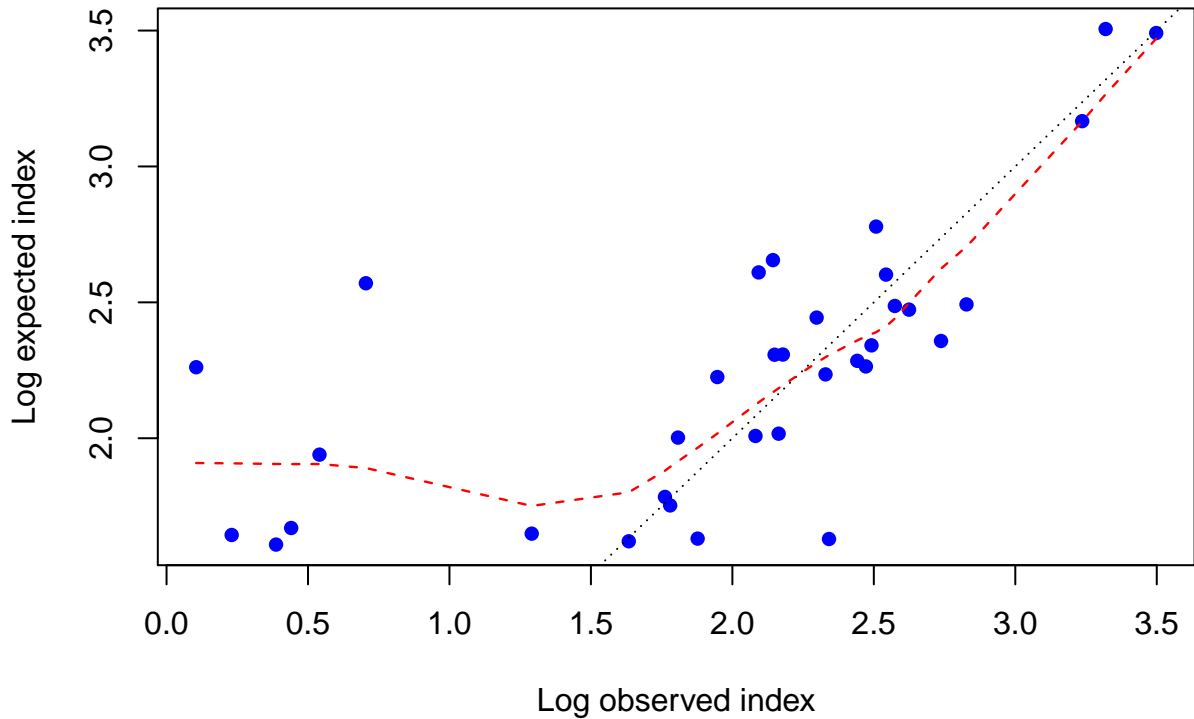
Log index



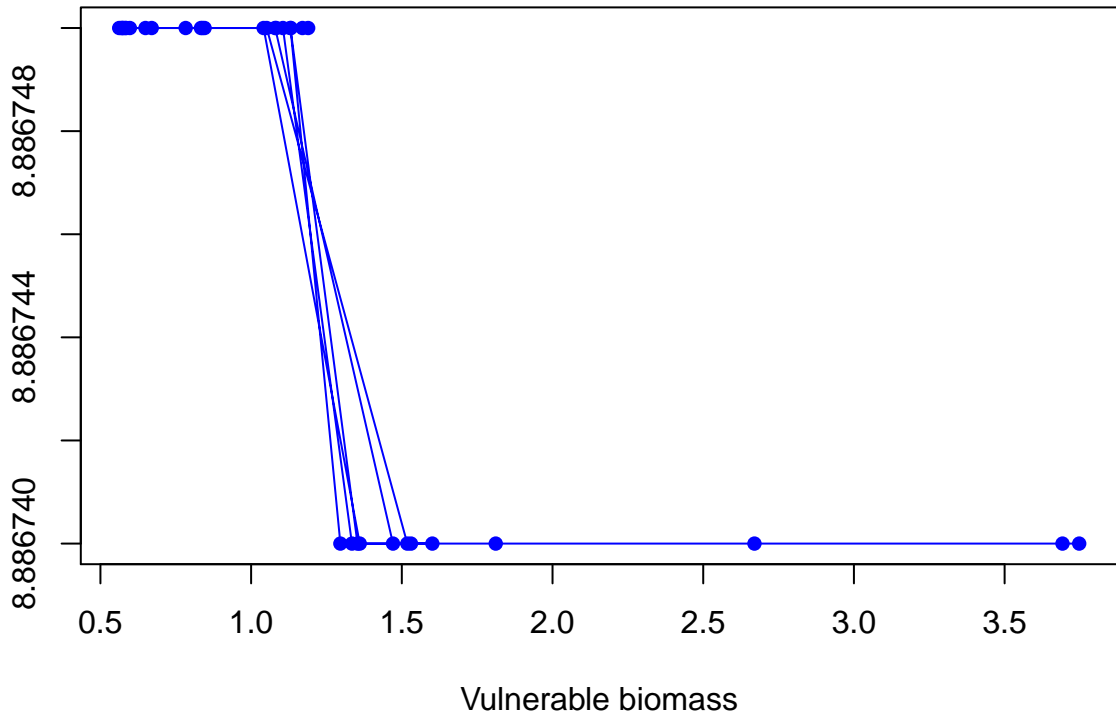


Log index

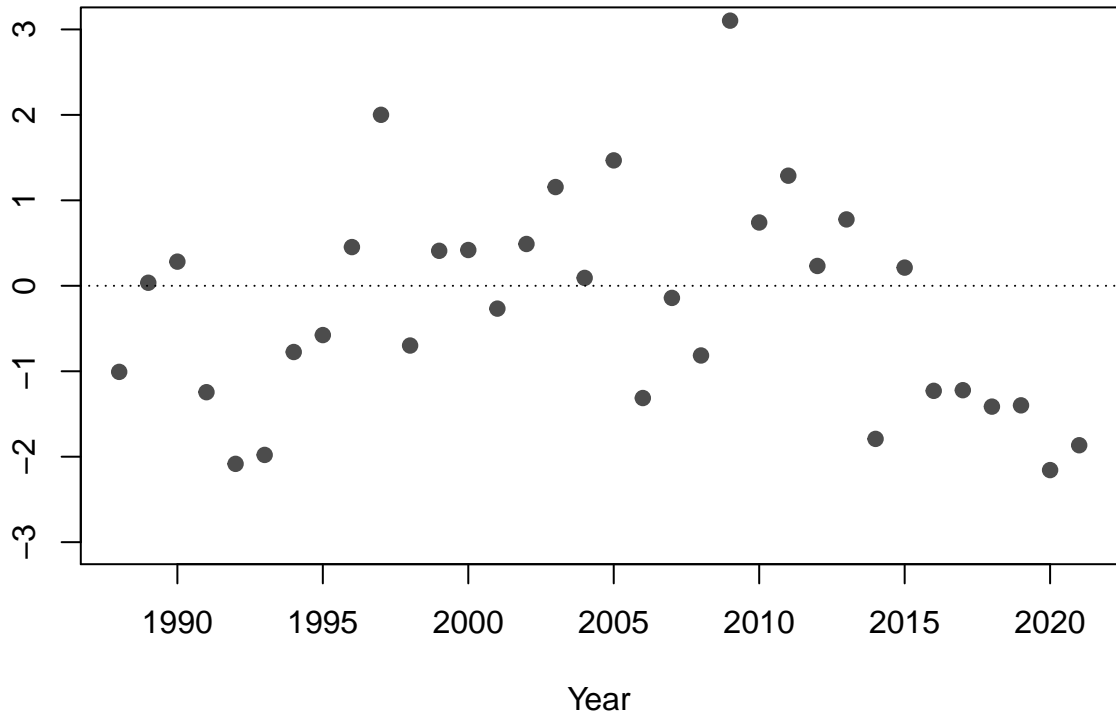




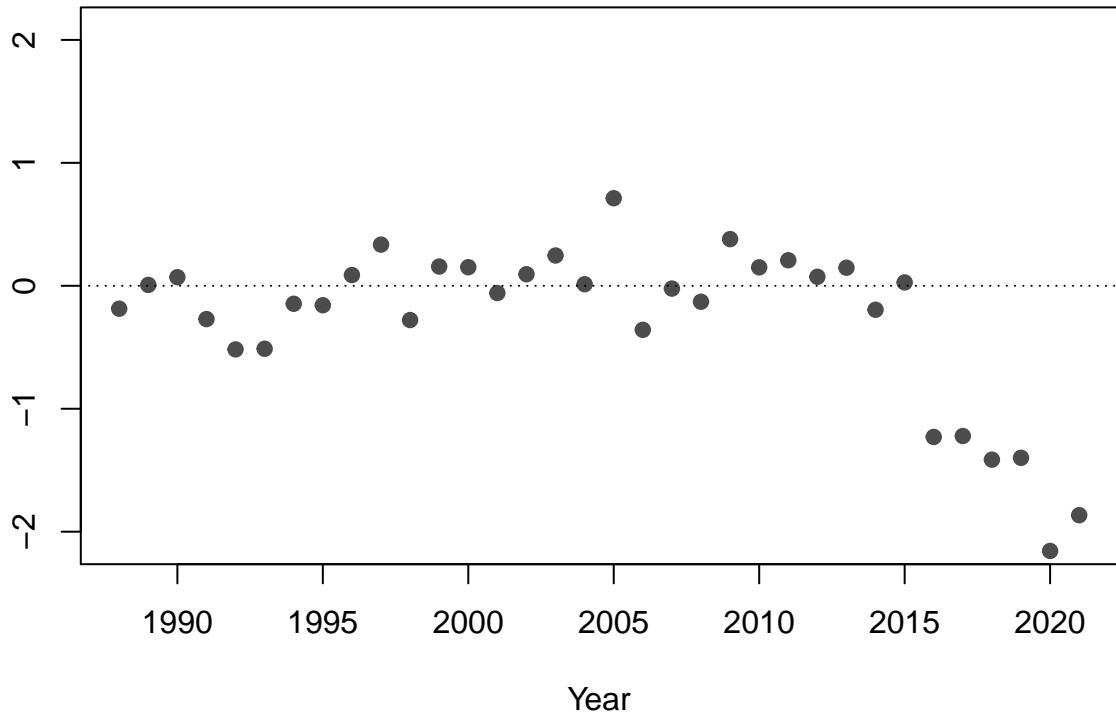
Effective catchability



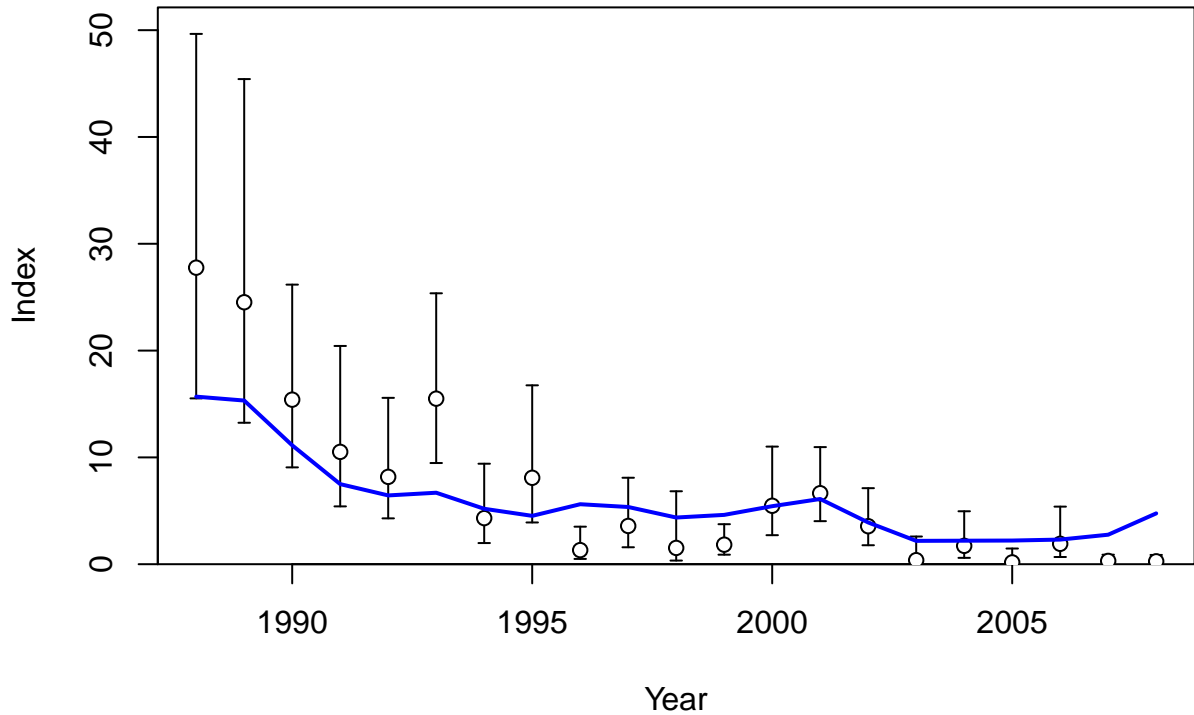
Residual

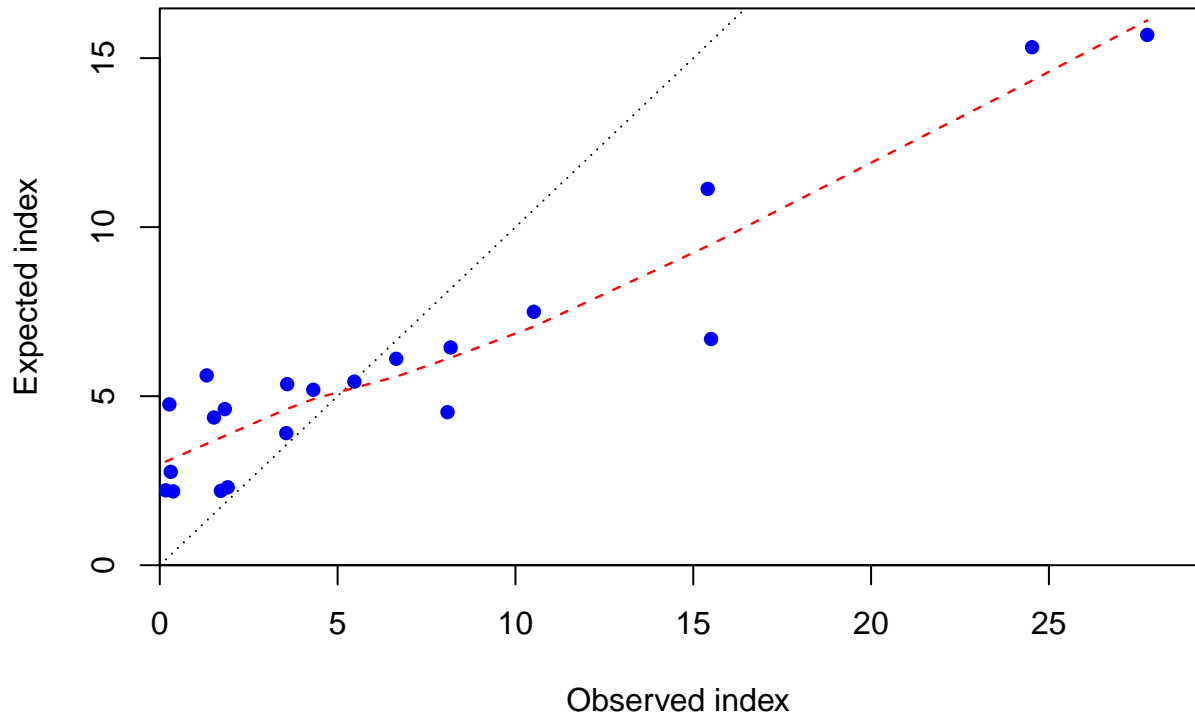


Deviation



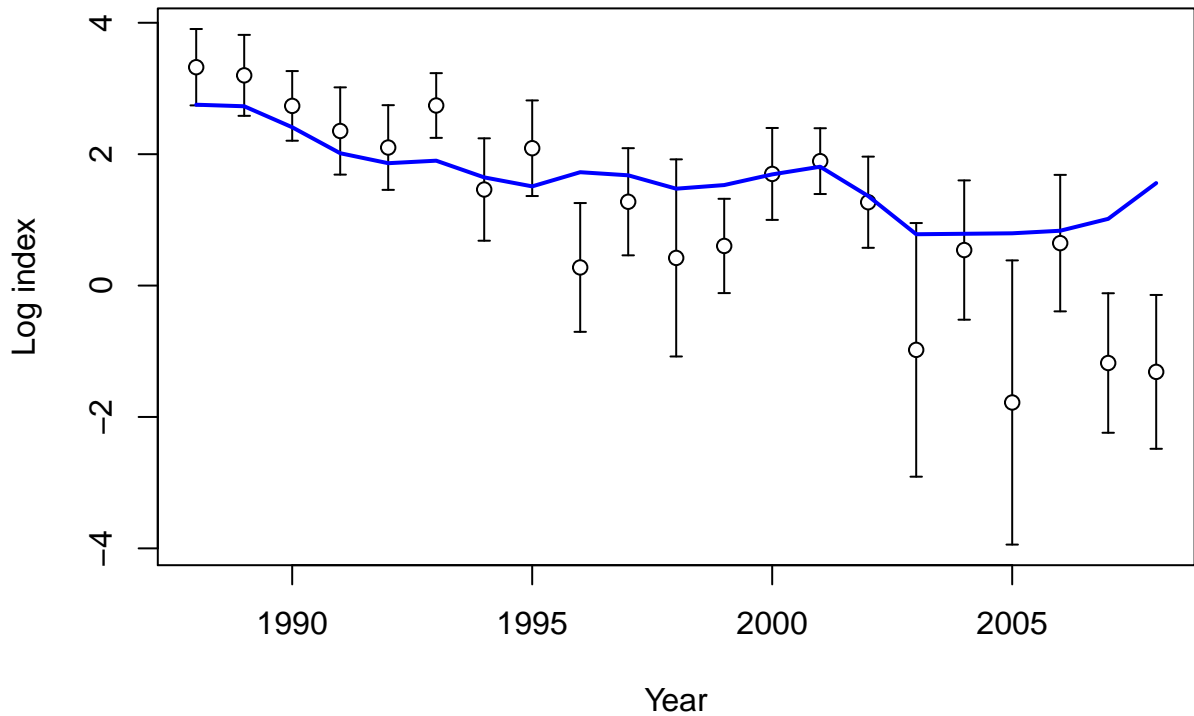


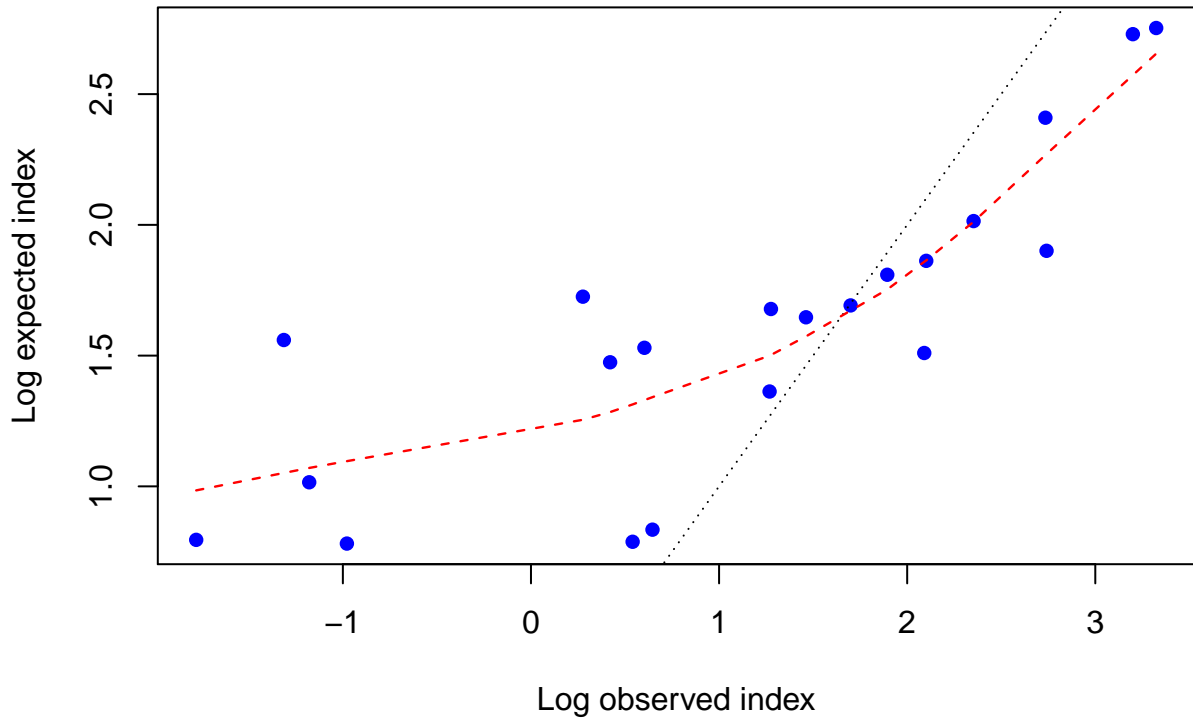












Effective catchability

4.358398  
4.358394  
4.358390

0.5

1.0

1.5

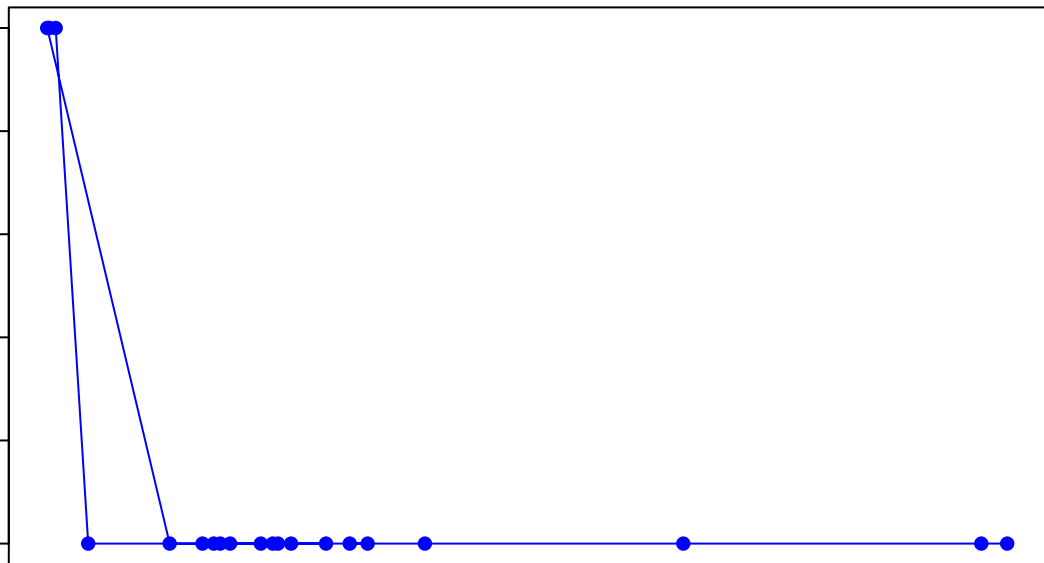
2.0

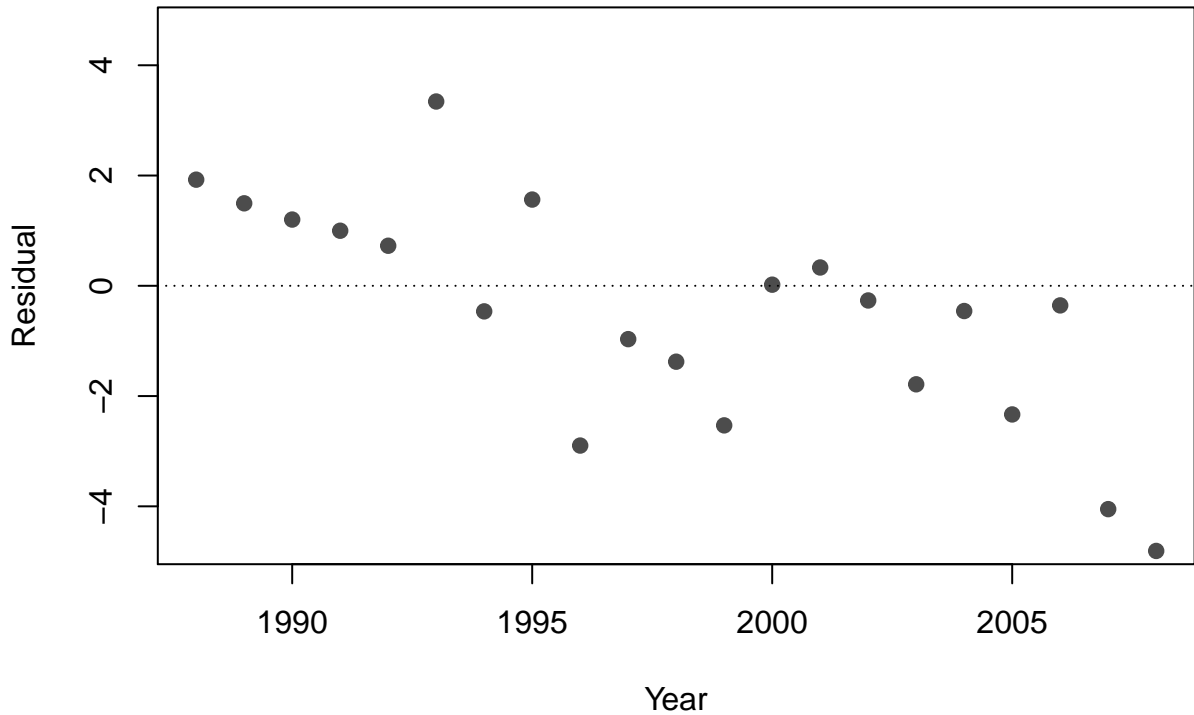
2.5

3.0

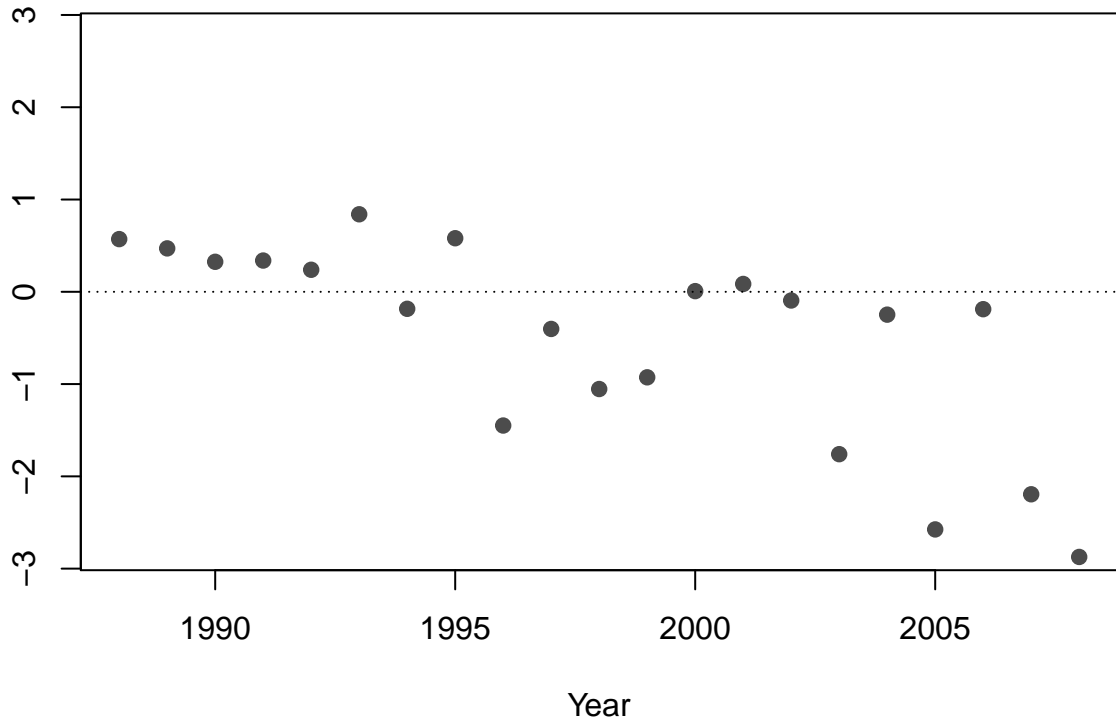
3.5

Vulnerable biomass



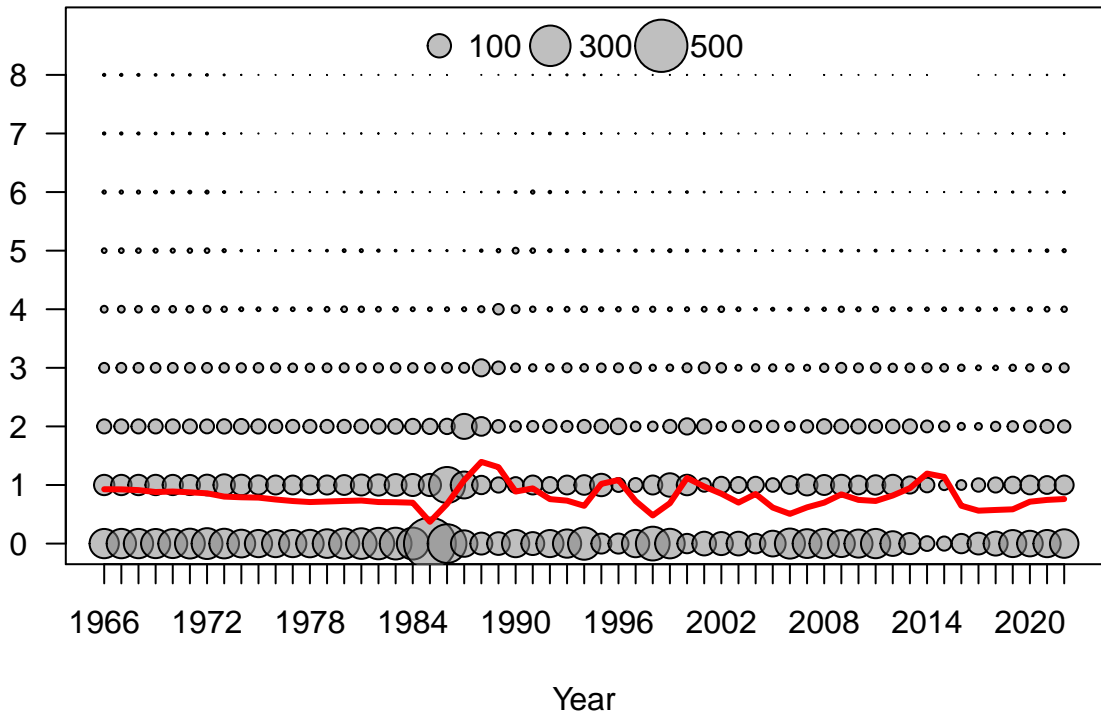


Deviation



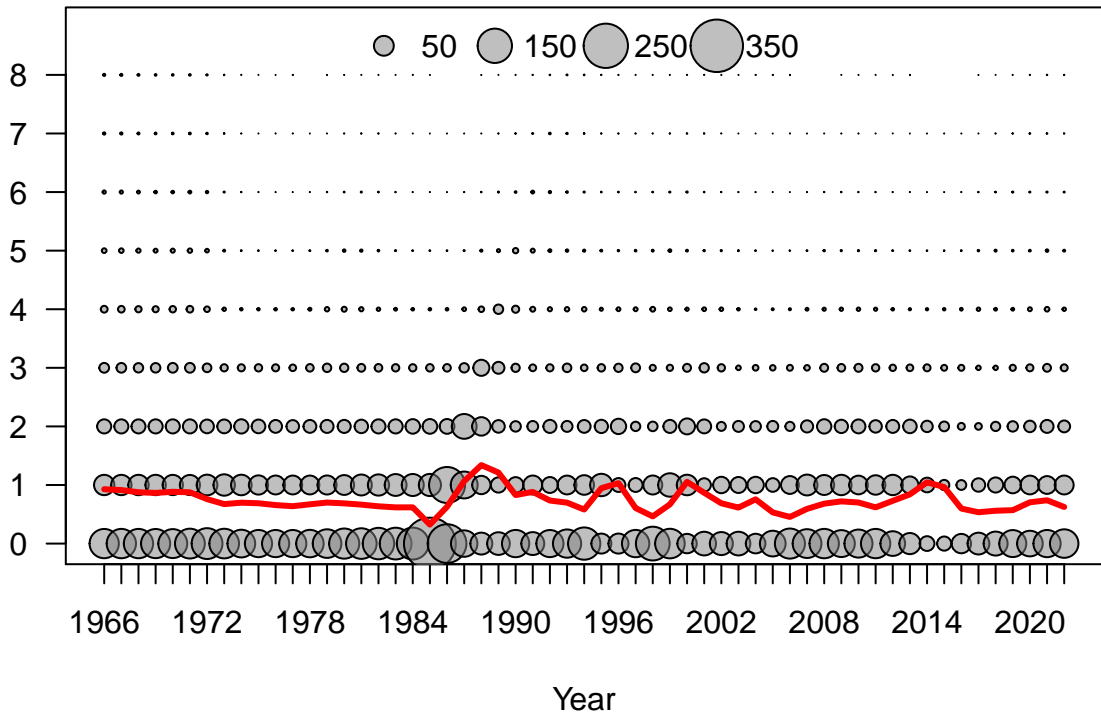


Age

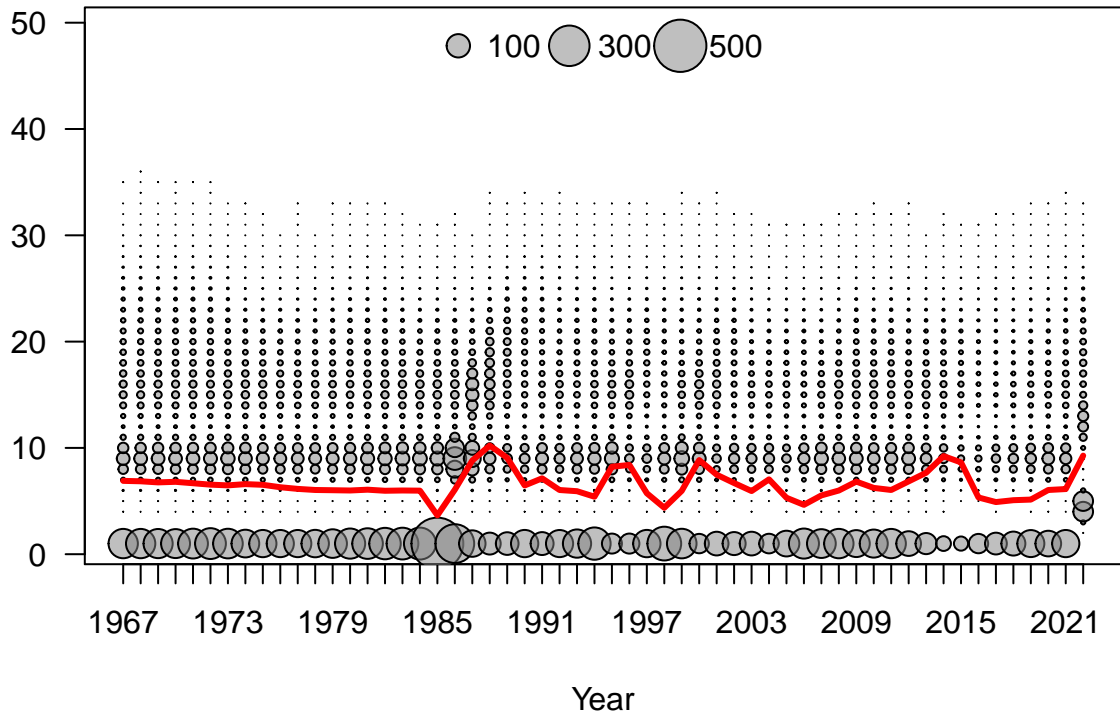


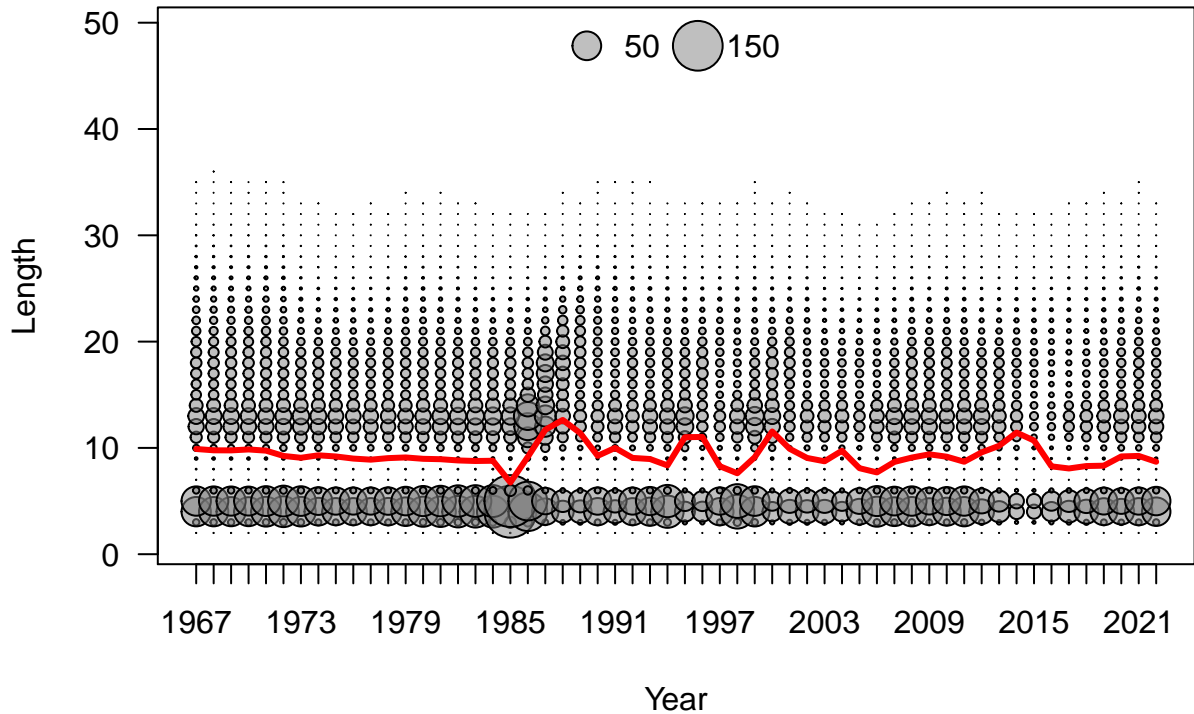


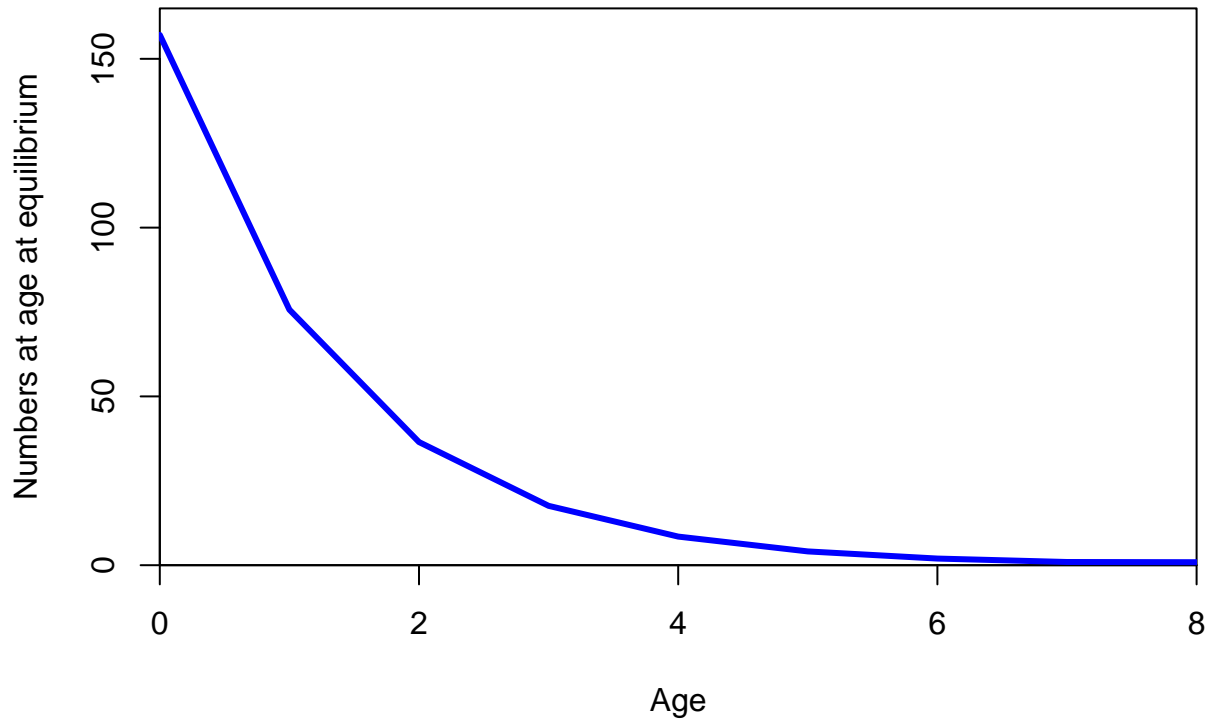
Age



Length

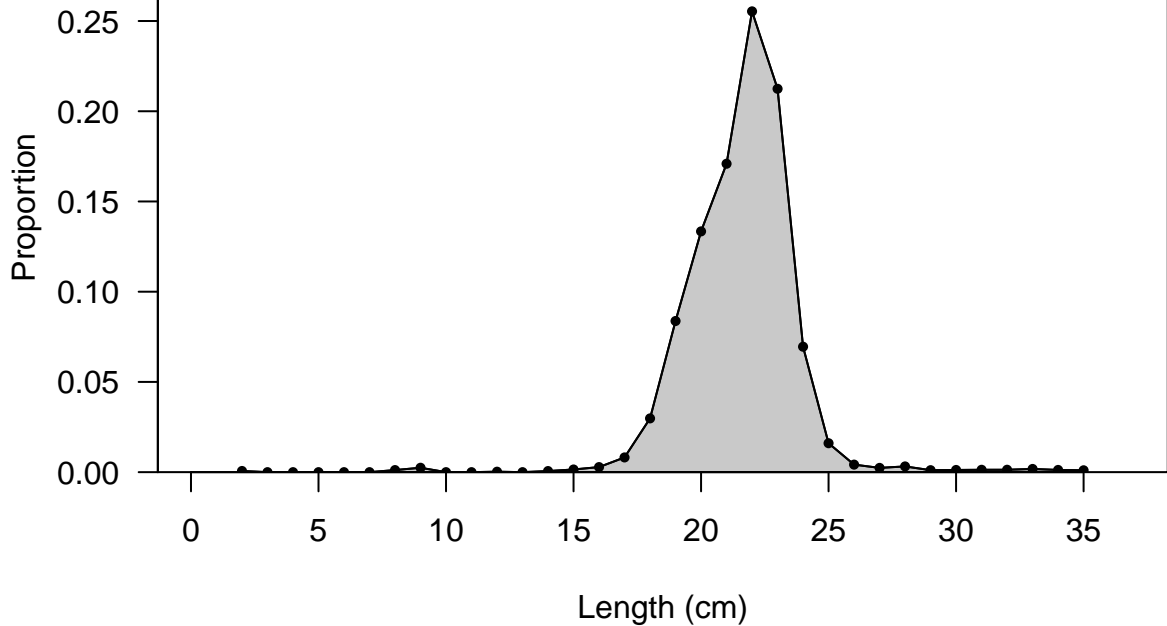


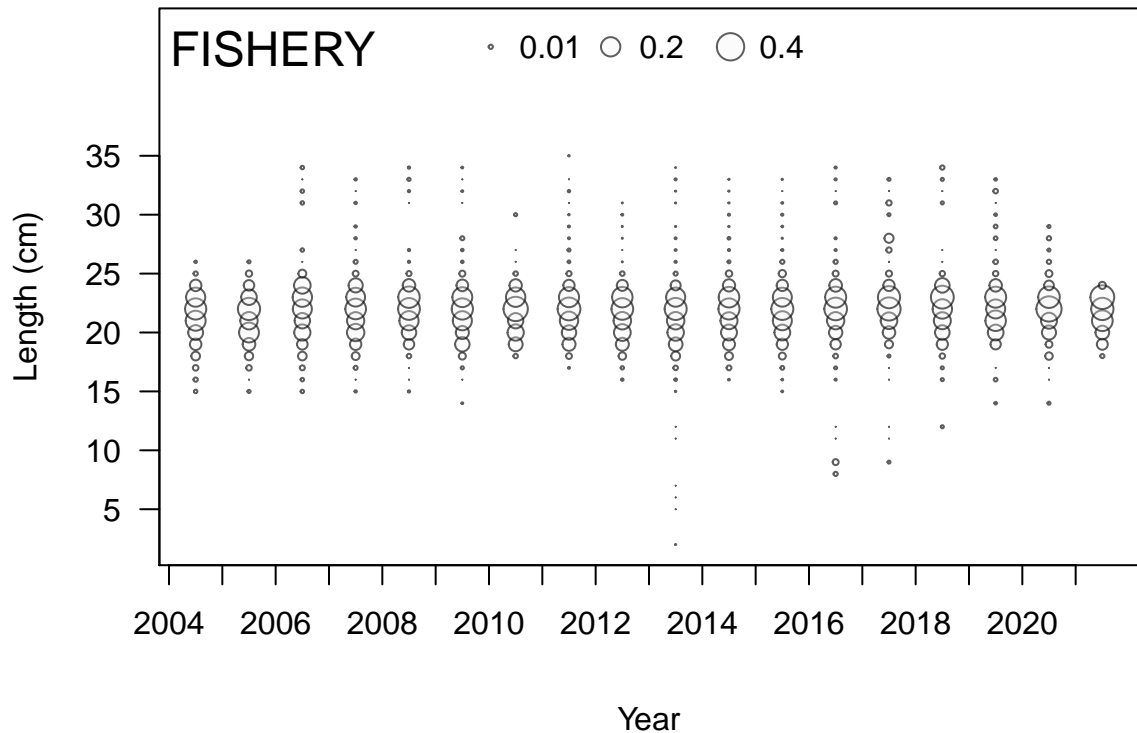




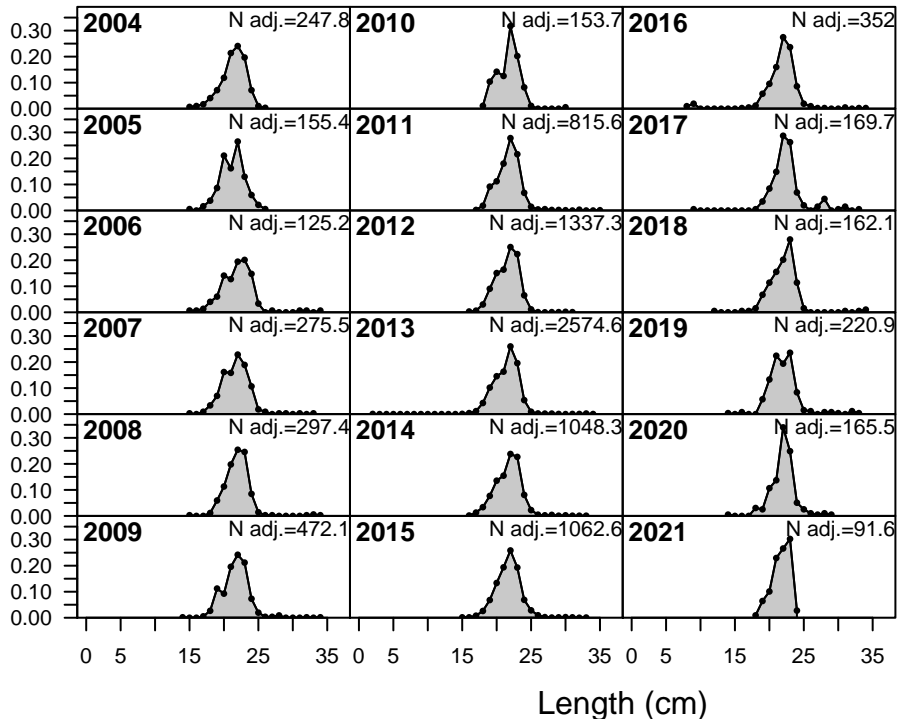
# FISHERY

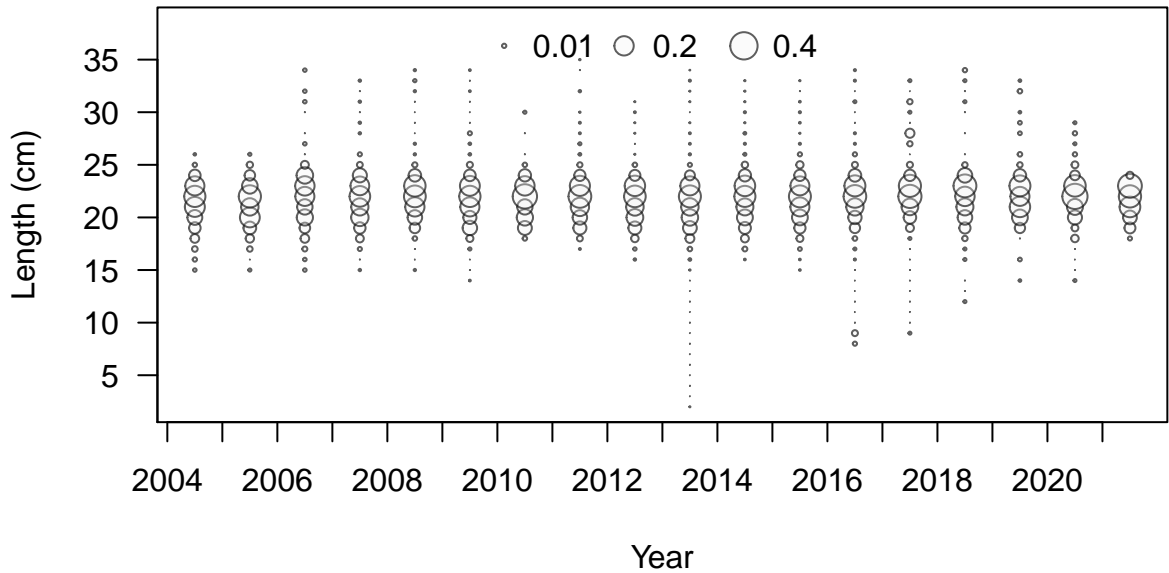
Sum of N adj.=9727.2





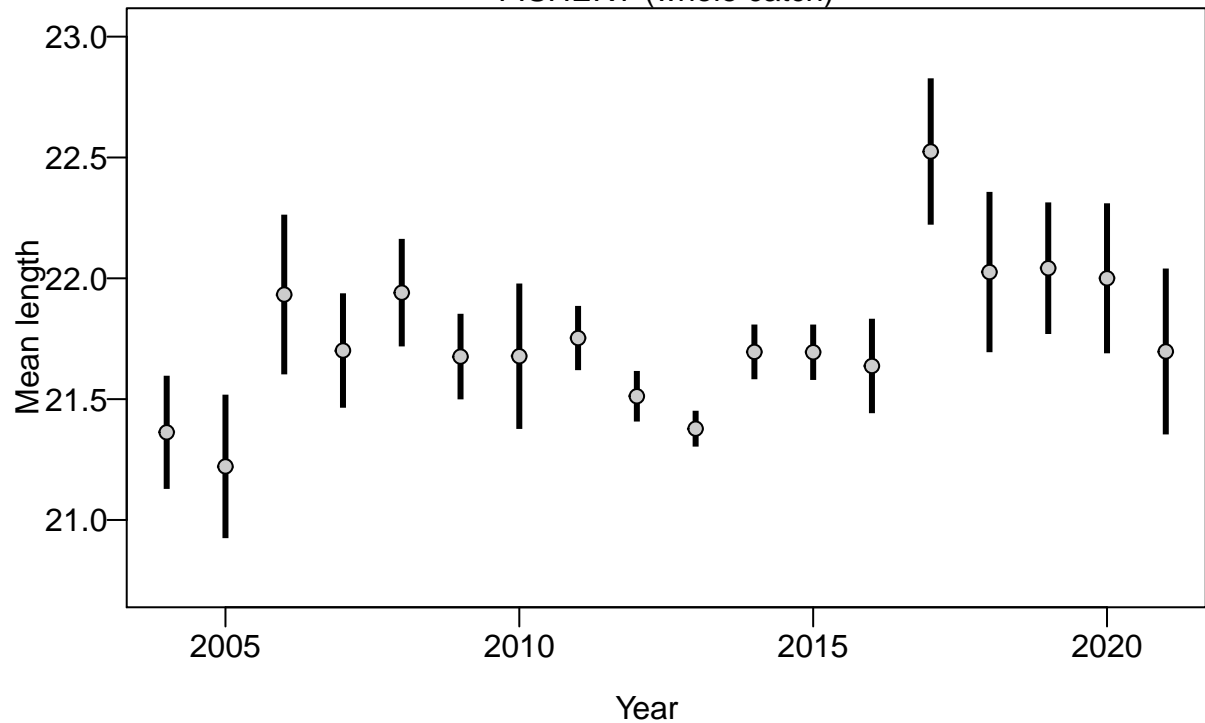
Proportion

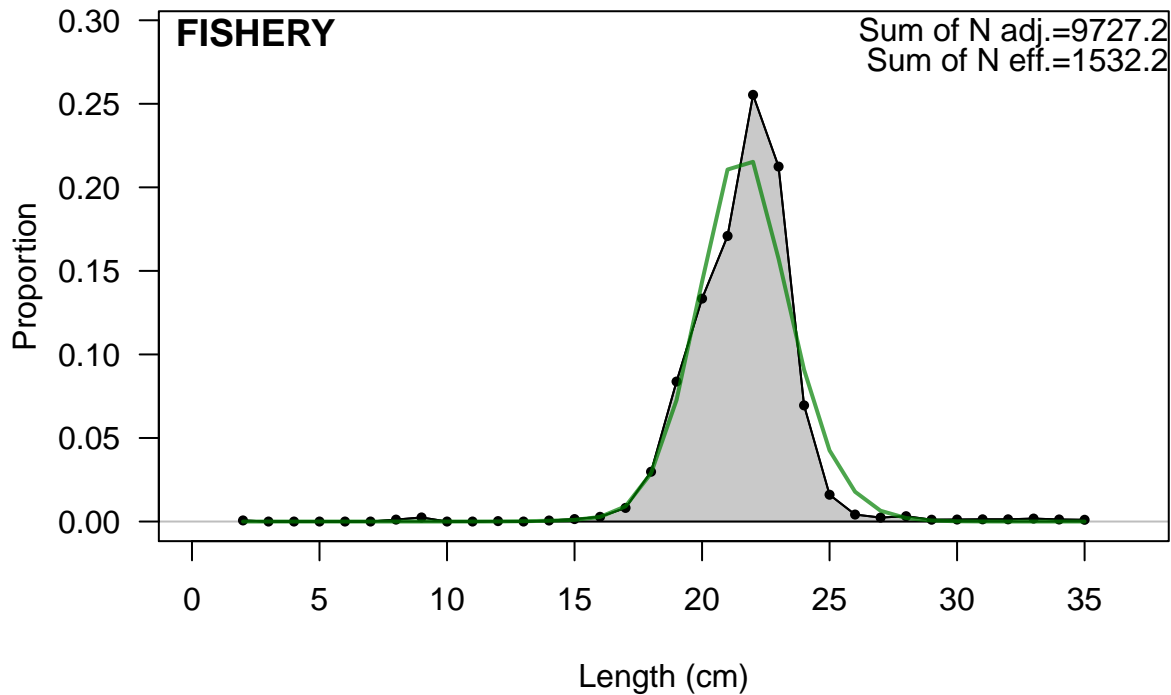


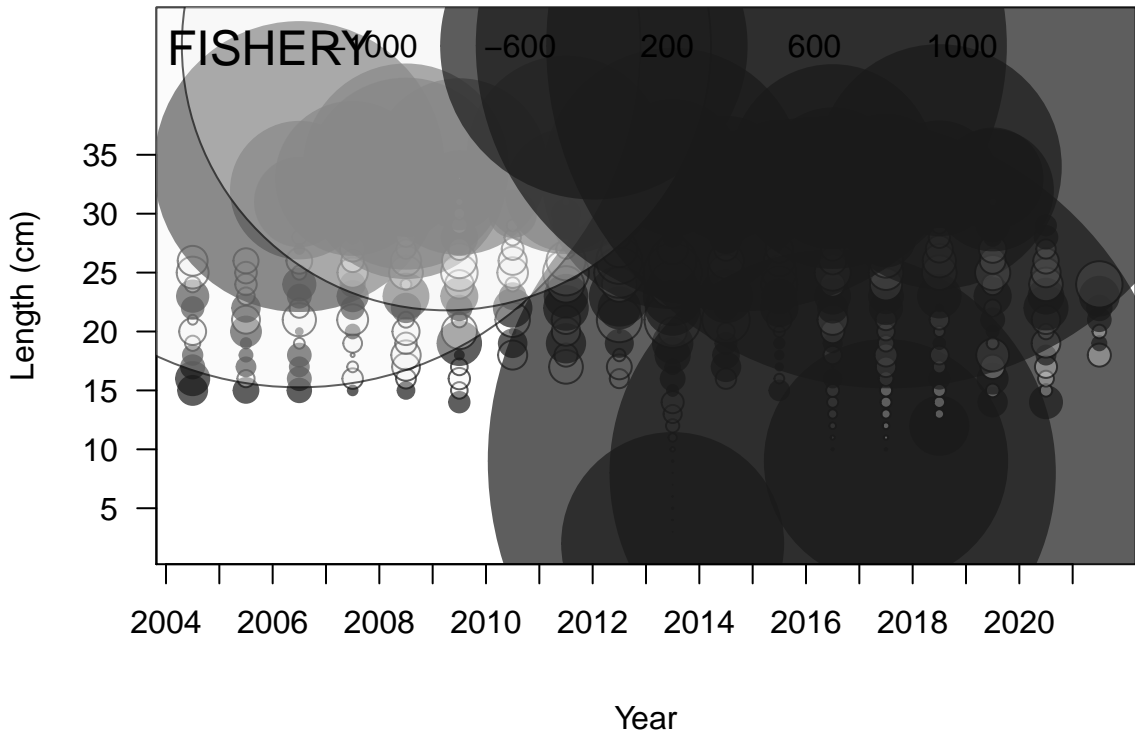


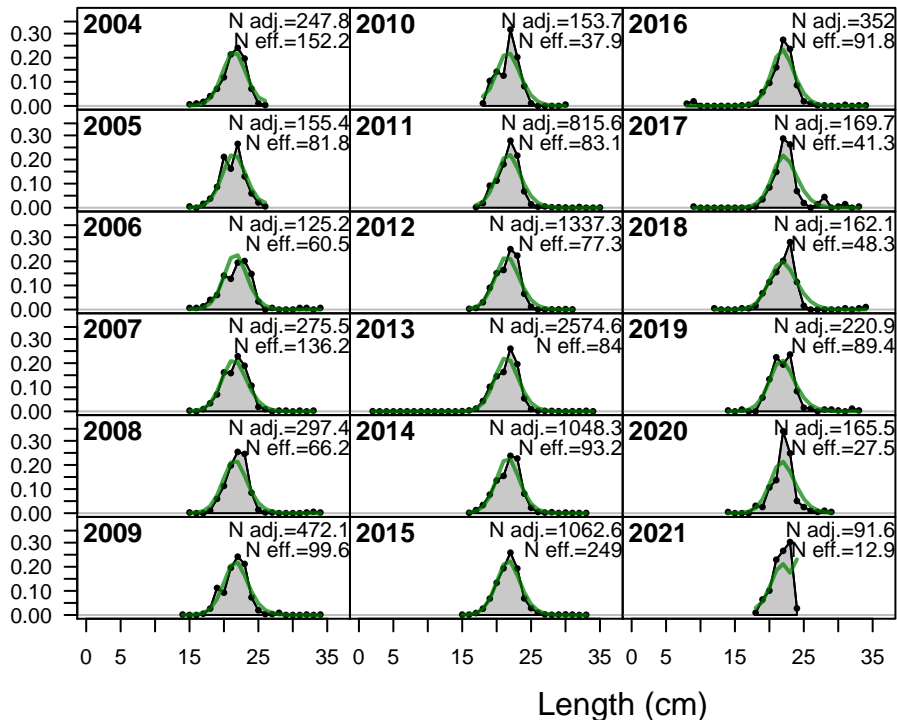


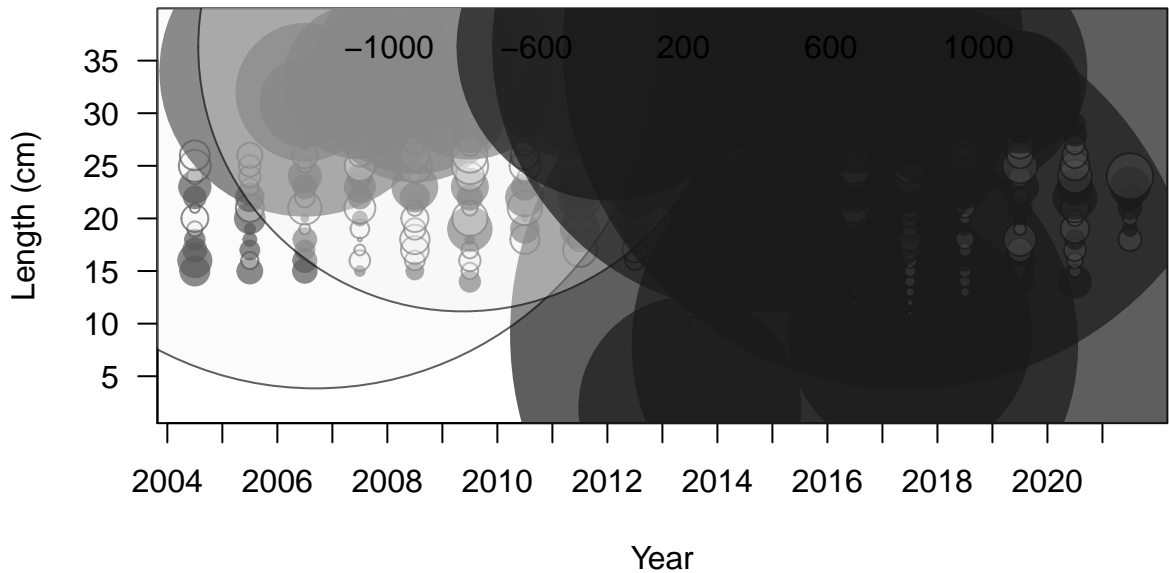
FISHERY (whole catch)



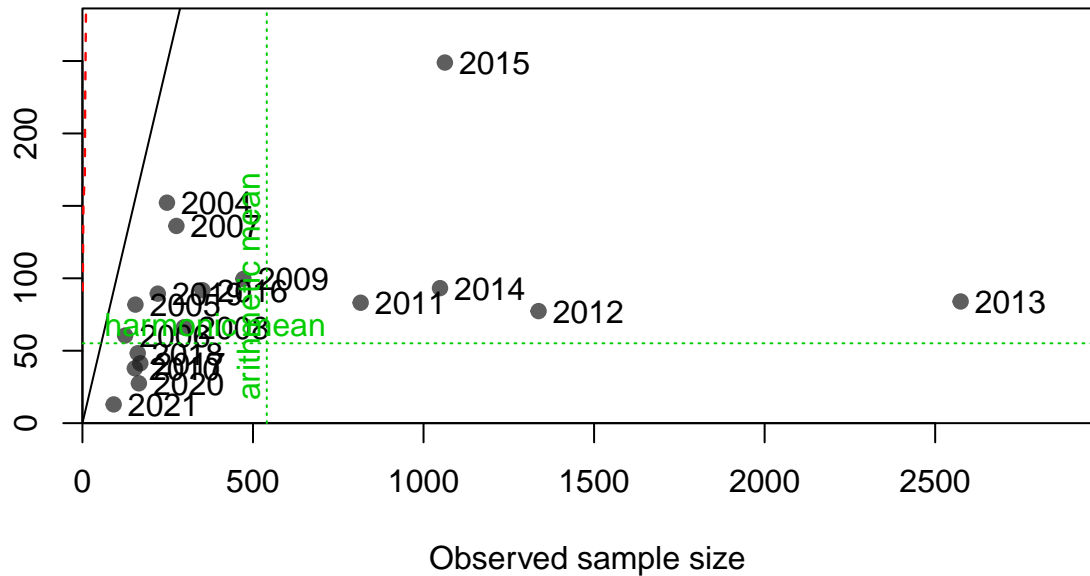




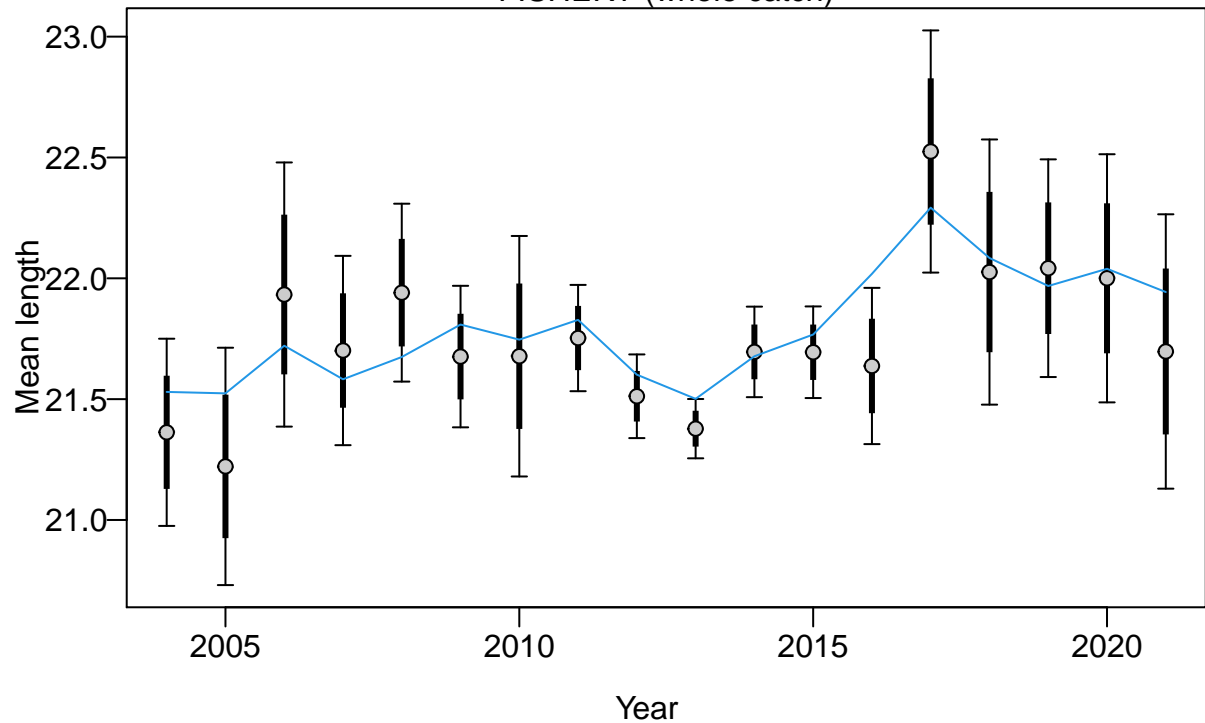


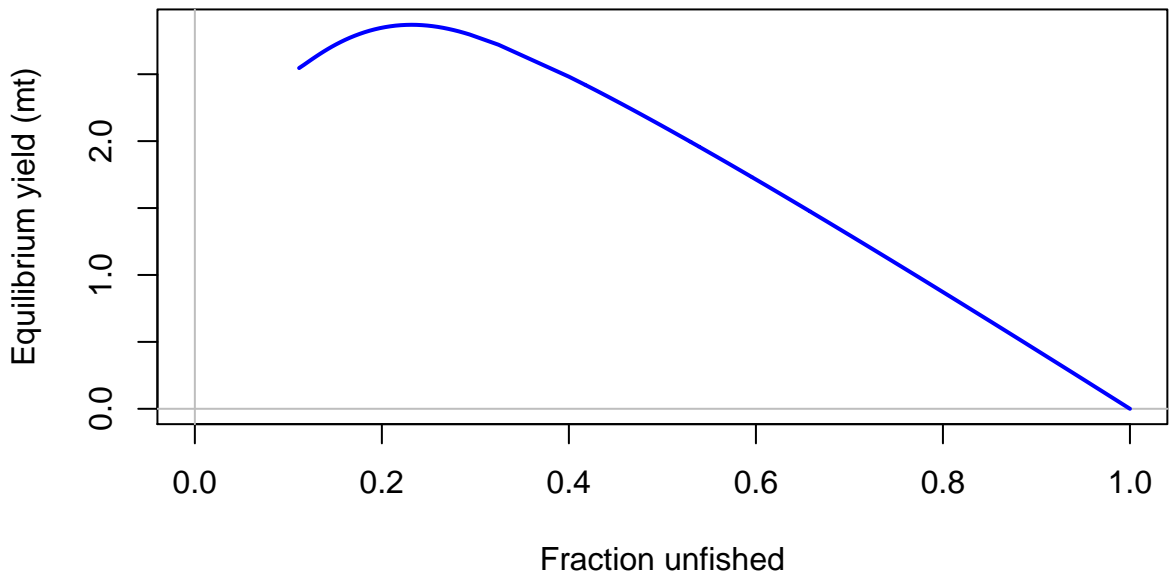


Effective sample size

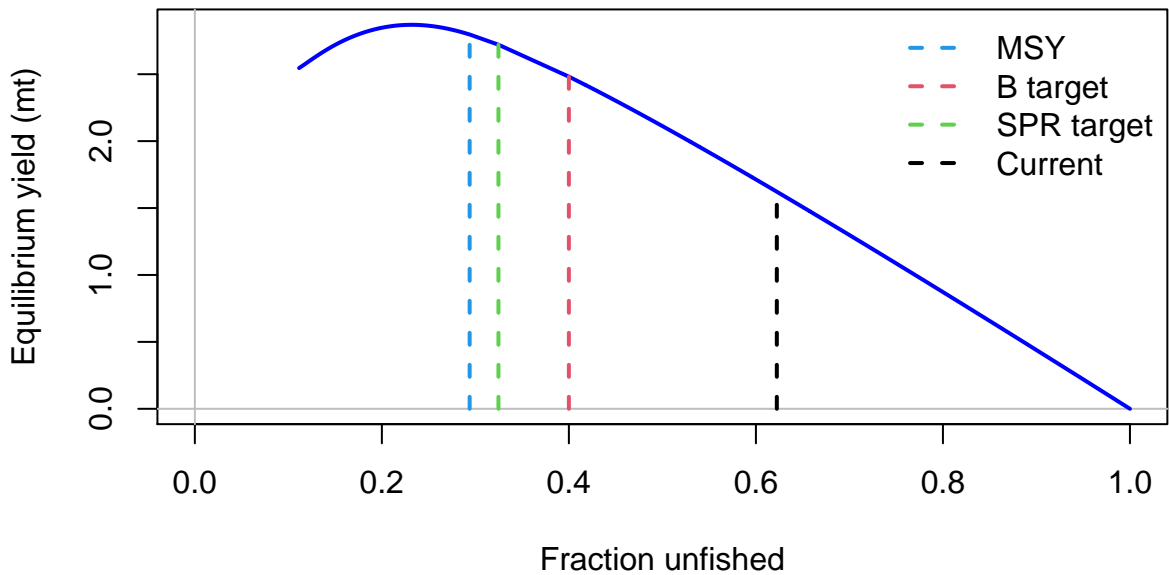


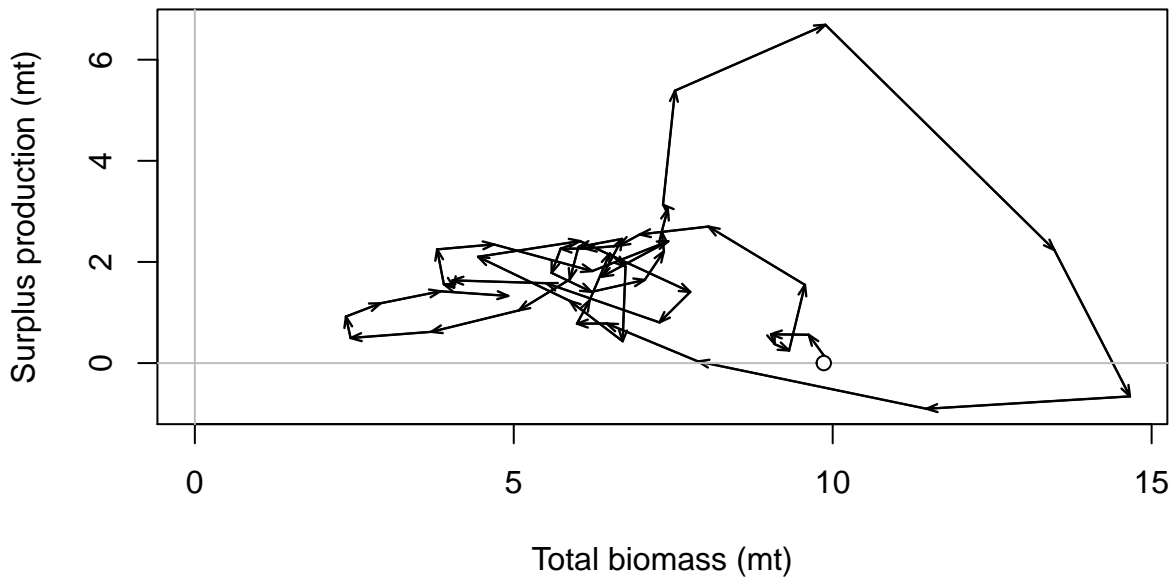
## FISHERY (whole catch)

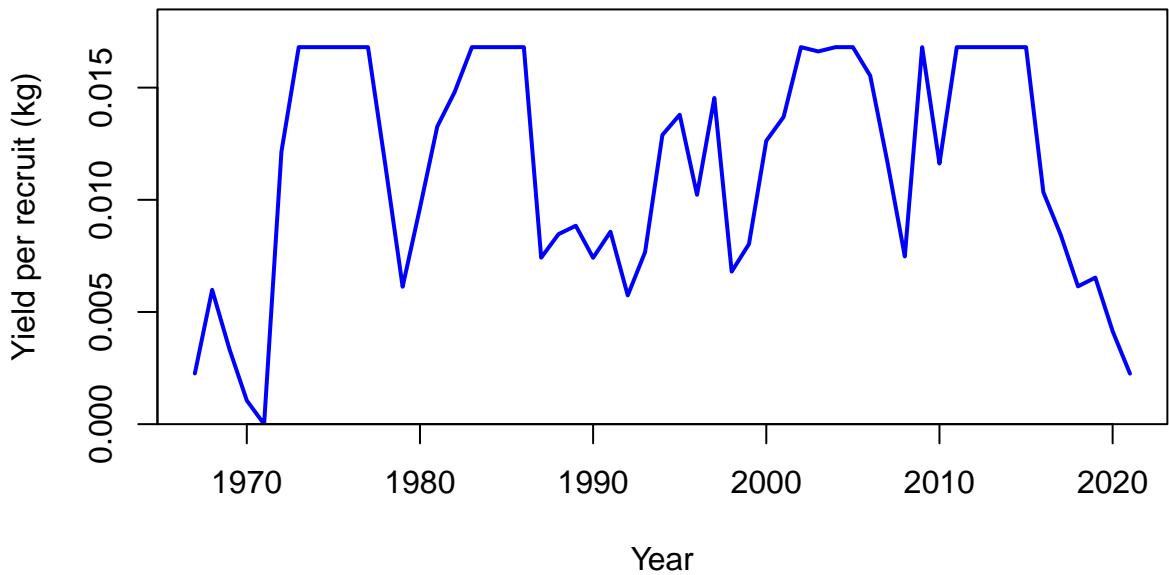


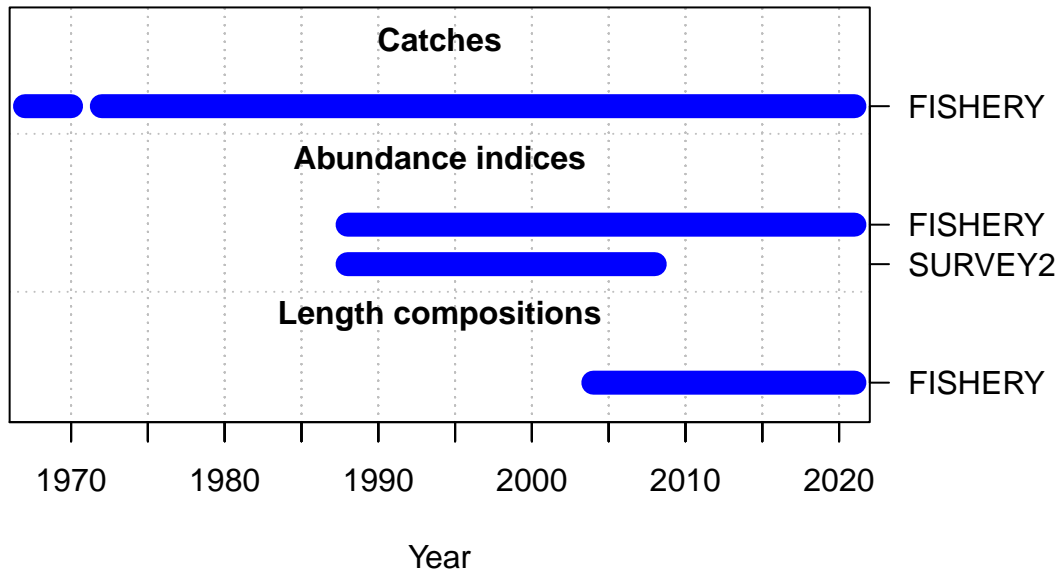


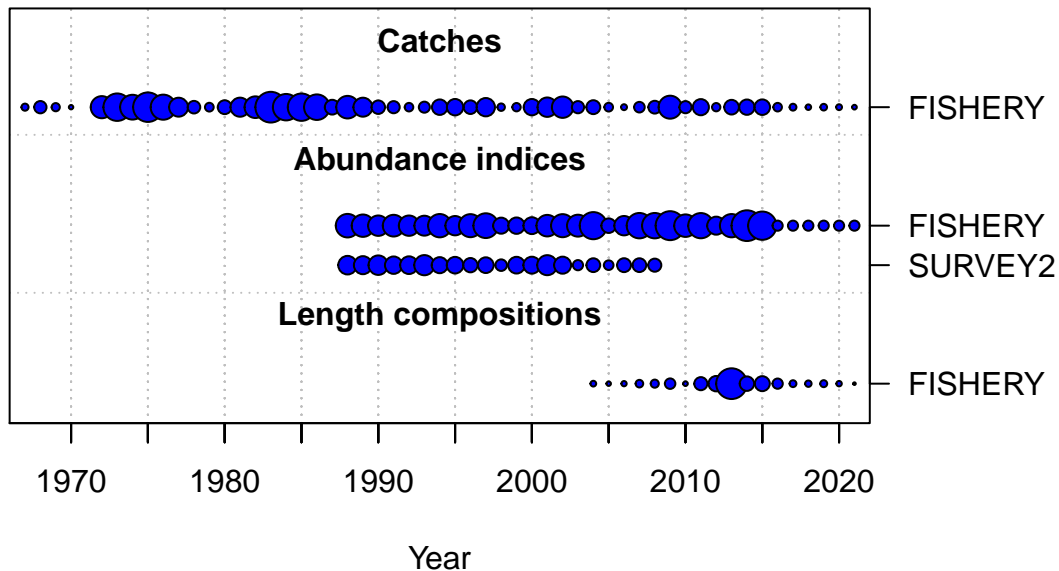




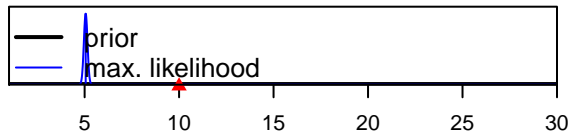




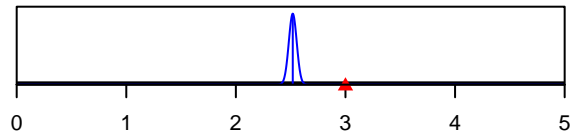




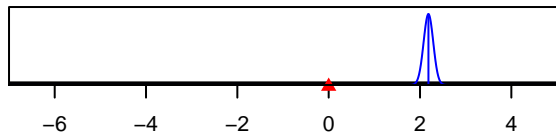
SR\_LN(R0)



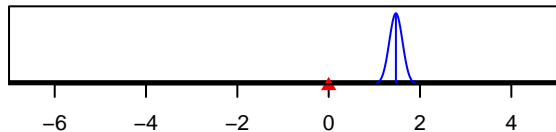
Size\_95%width\_FISHERY(1)



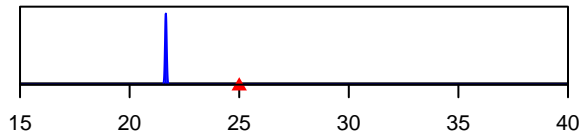
LnQ\_base\_FISHERY(1)



LnQ\_base\_SURVEY2(2)



Size\_inflection\_FISHERY(1)



Parameter value