

Plots created using the 'r4ss' package in R

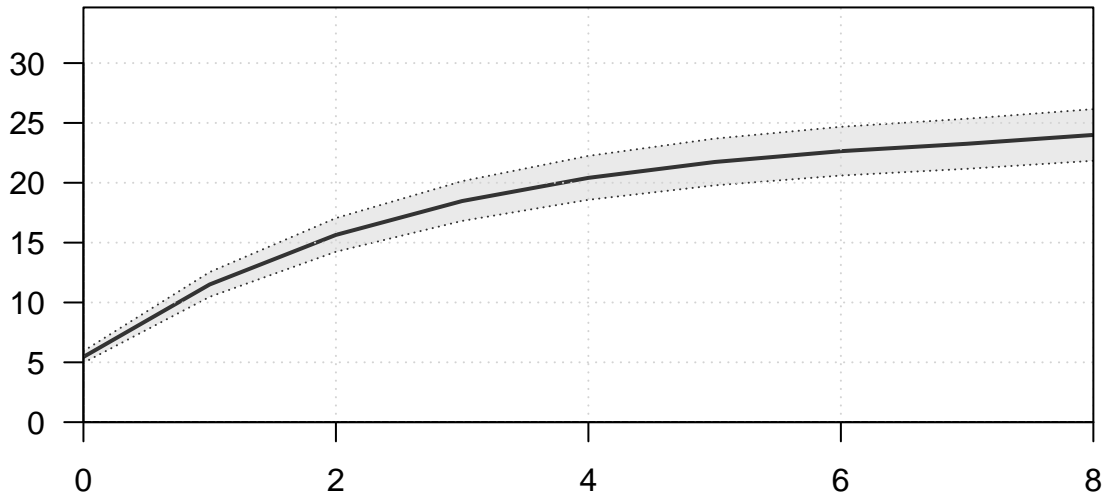
Stock Synthesis version: 3.30.19.0

StartTime: Thu Aug 11 09:22:03 2022

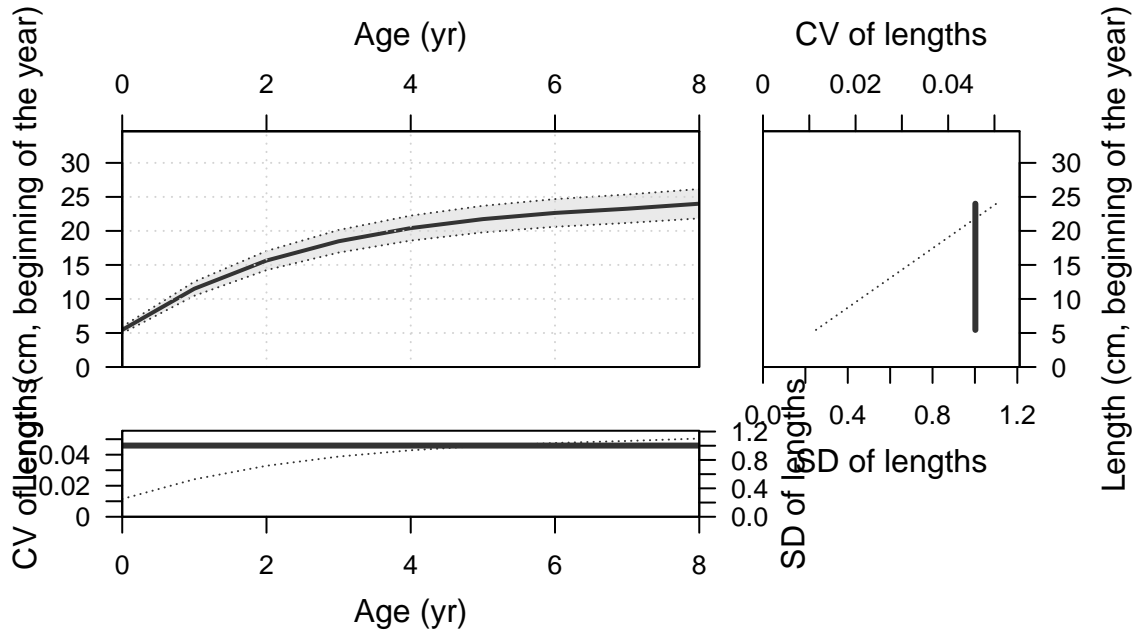
Data\_File: data.ss

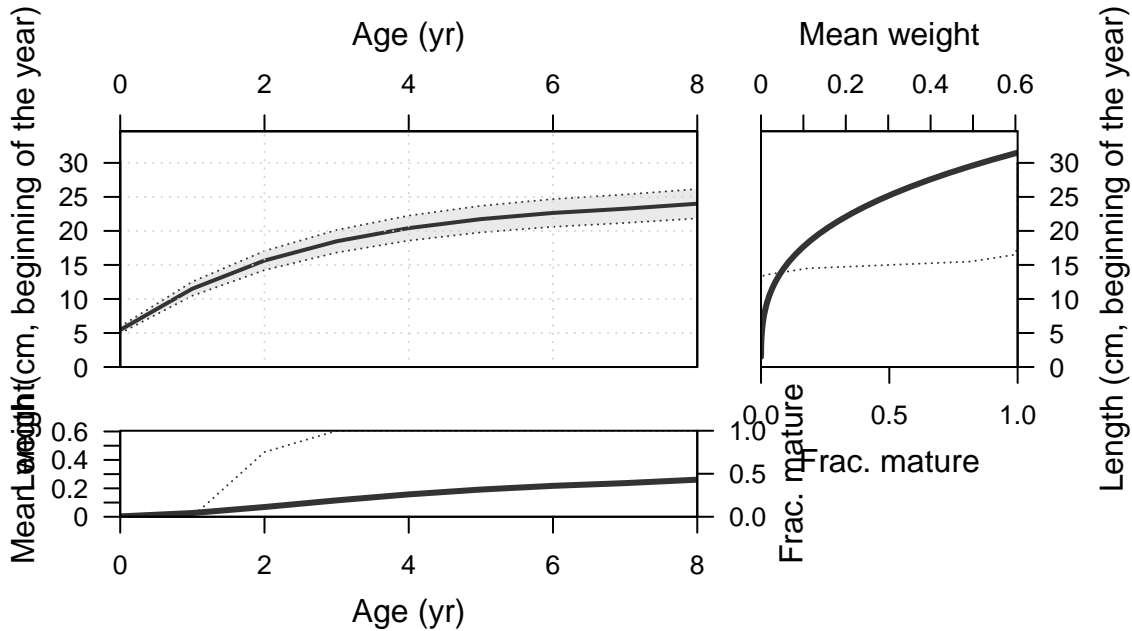
Control\_File: control.ss

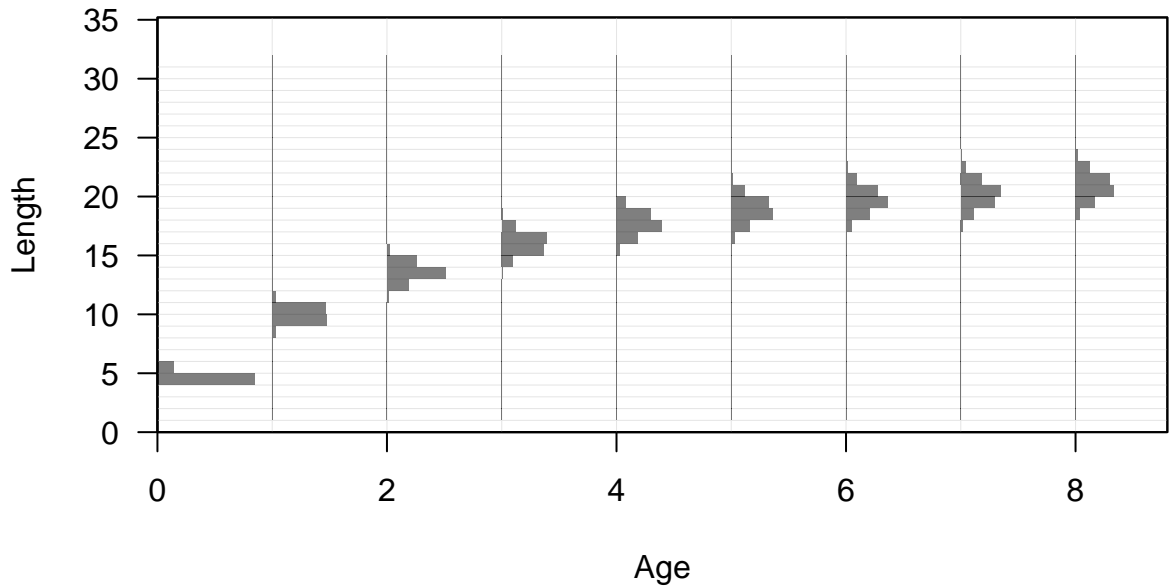
Length (cm, beginning of the year)

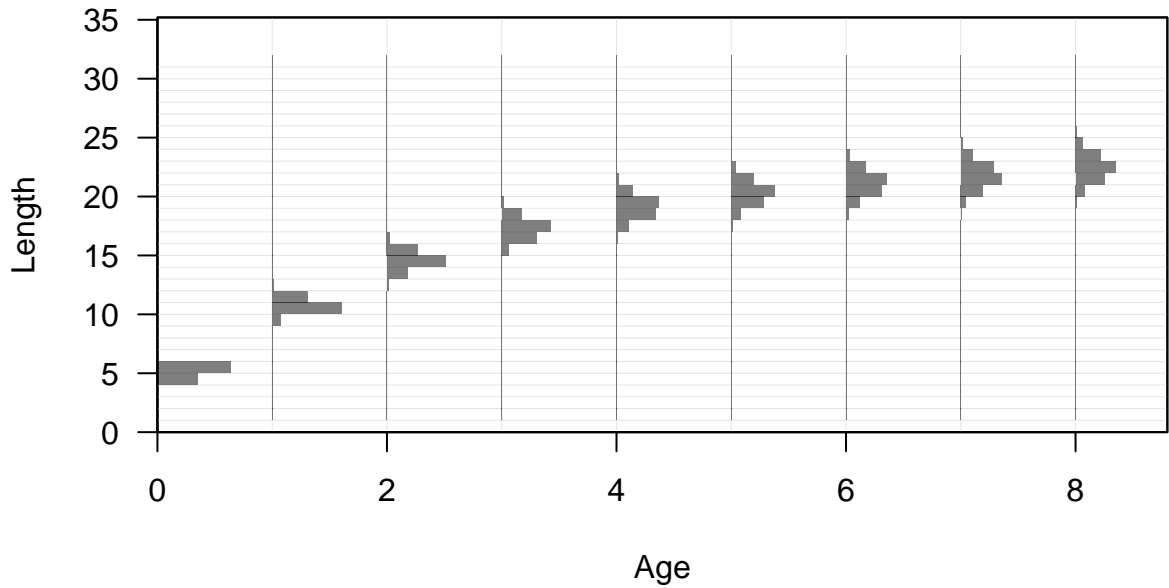


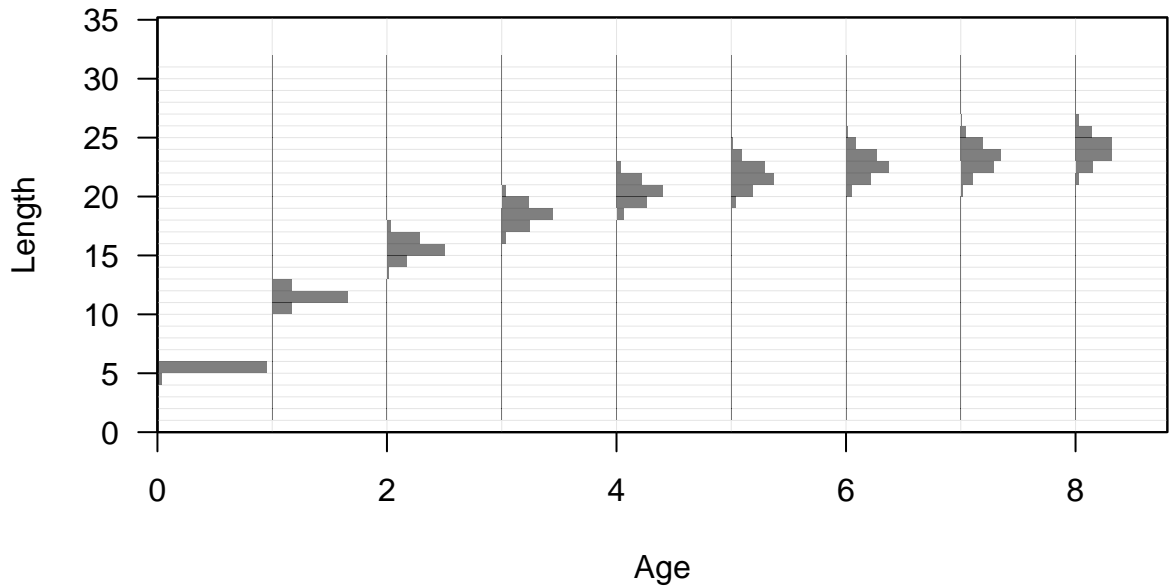
Age (yr)

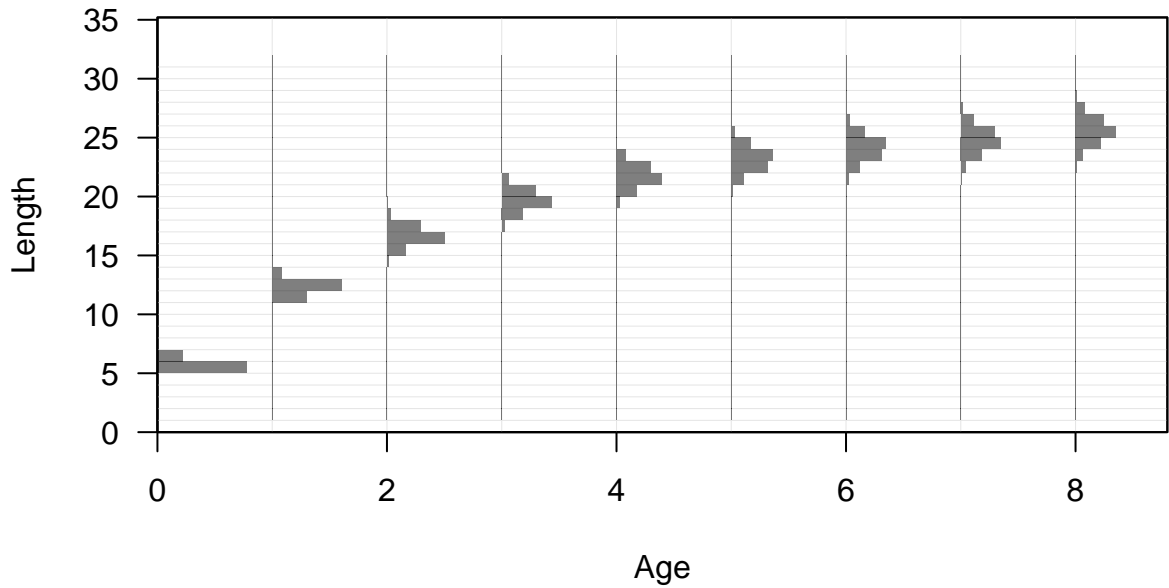




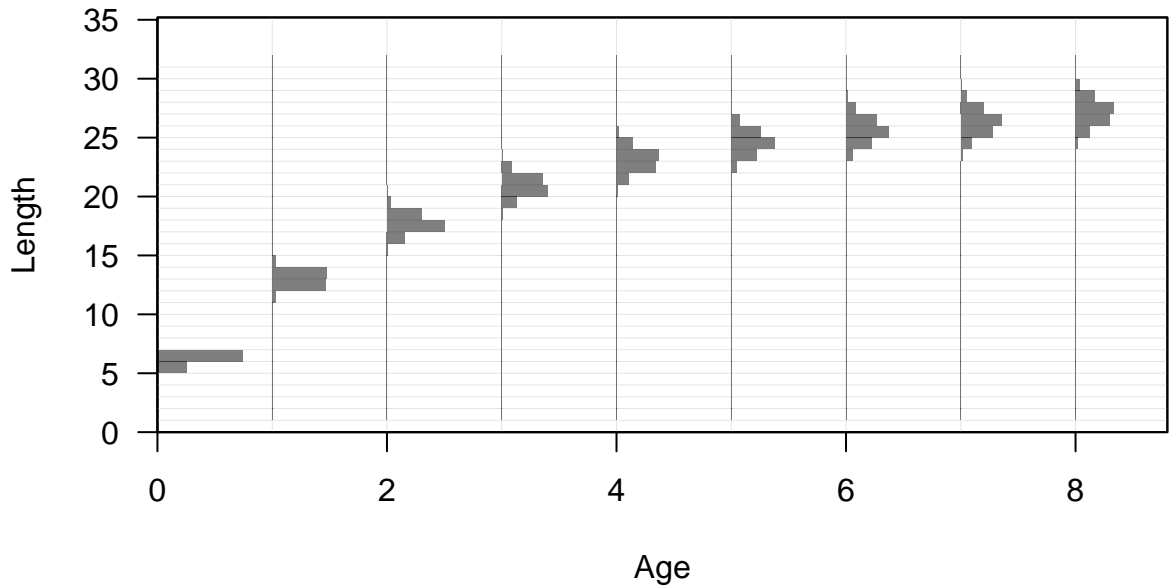


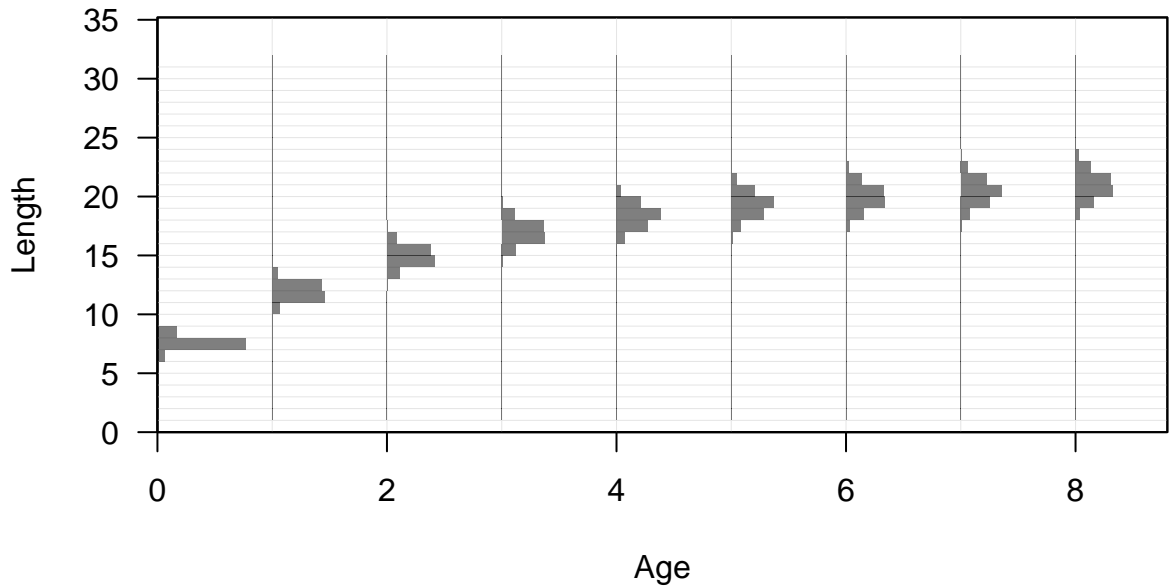


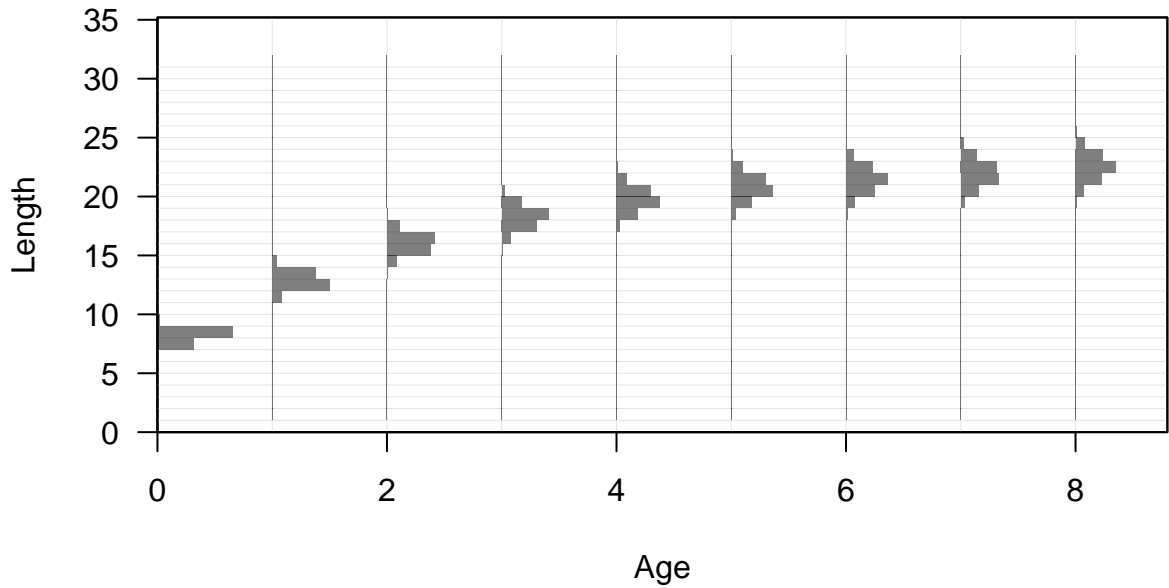


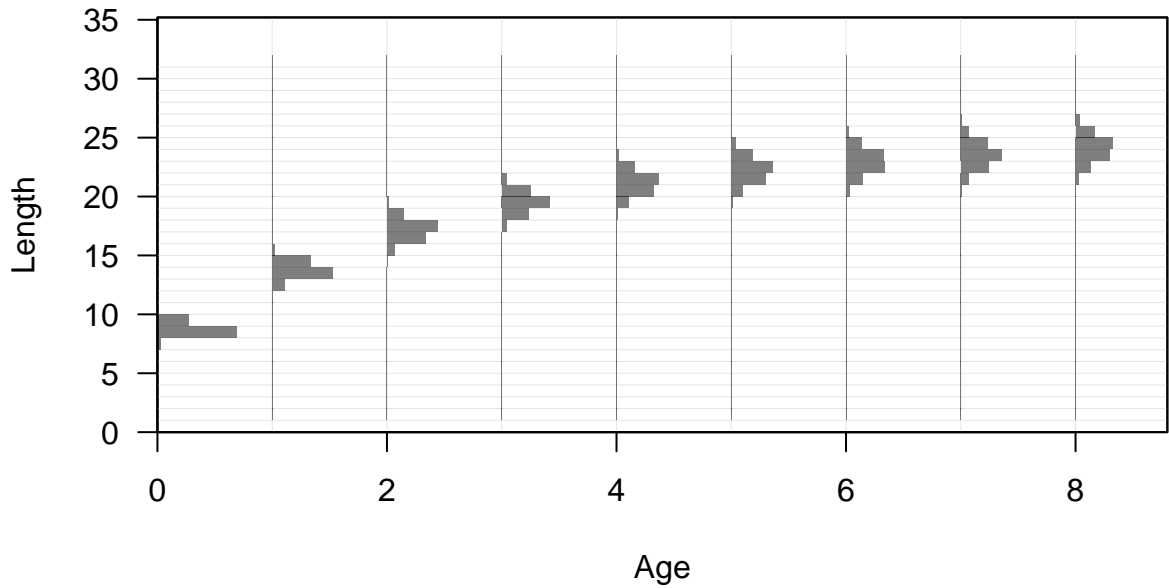


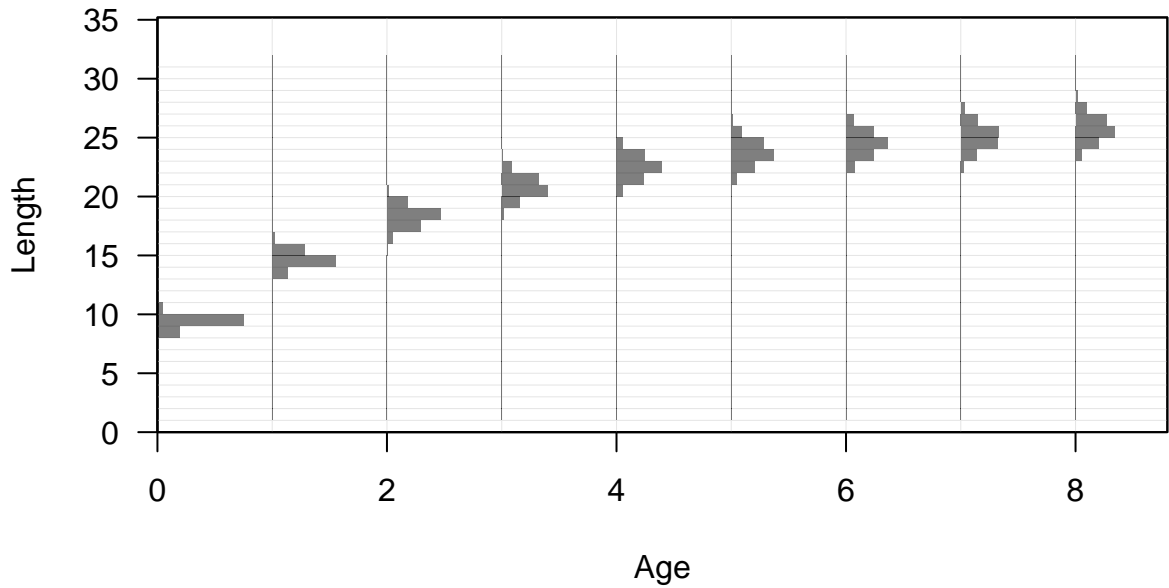


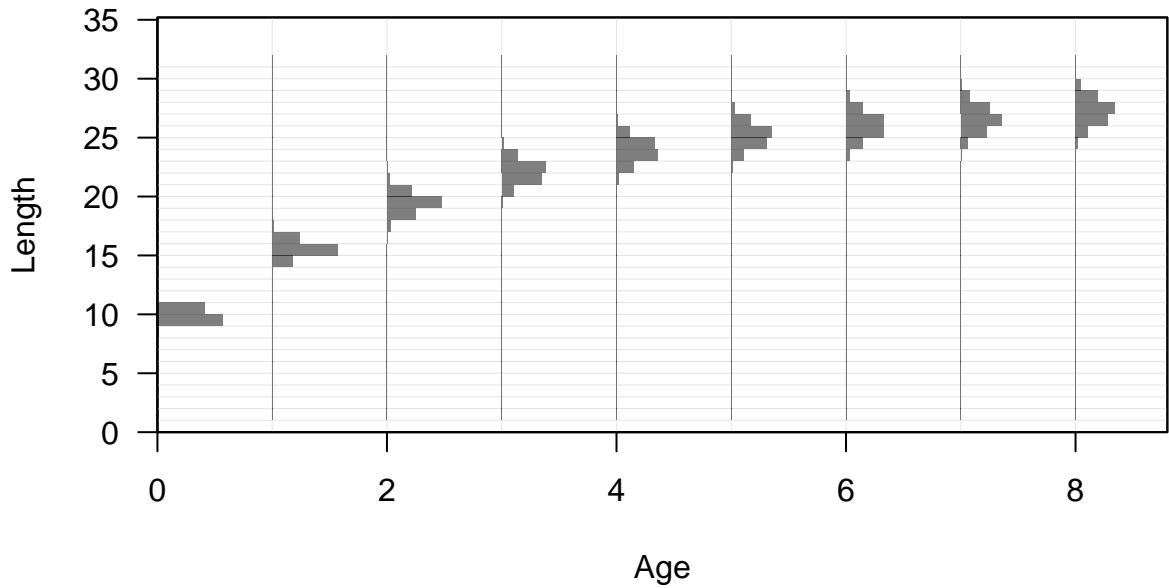


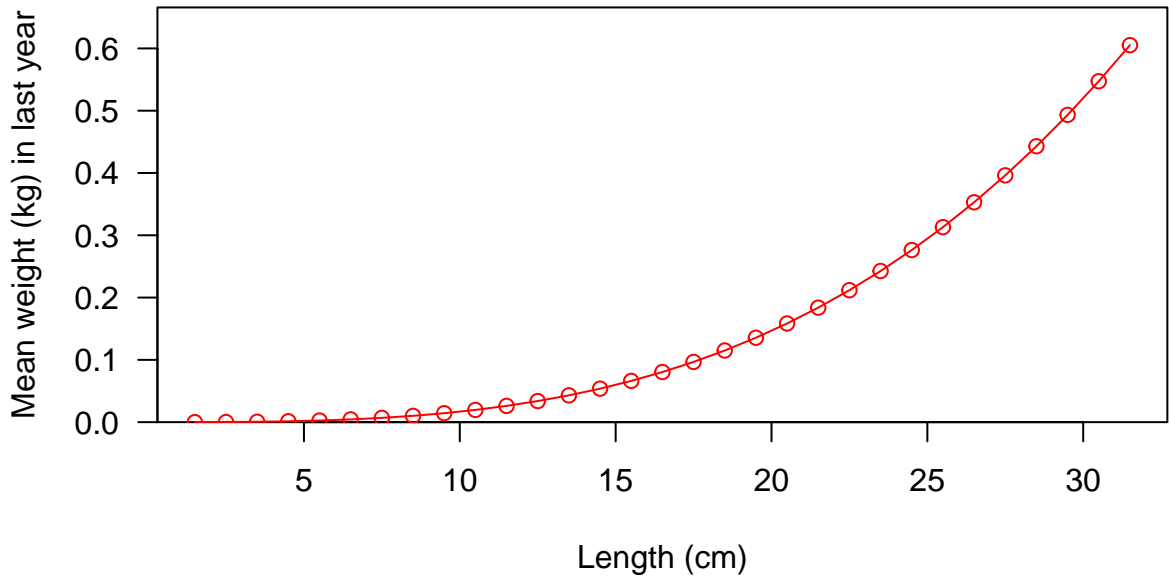


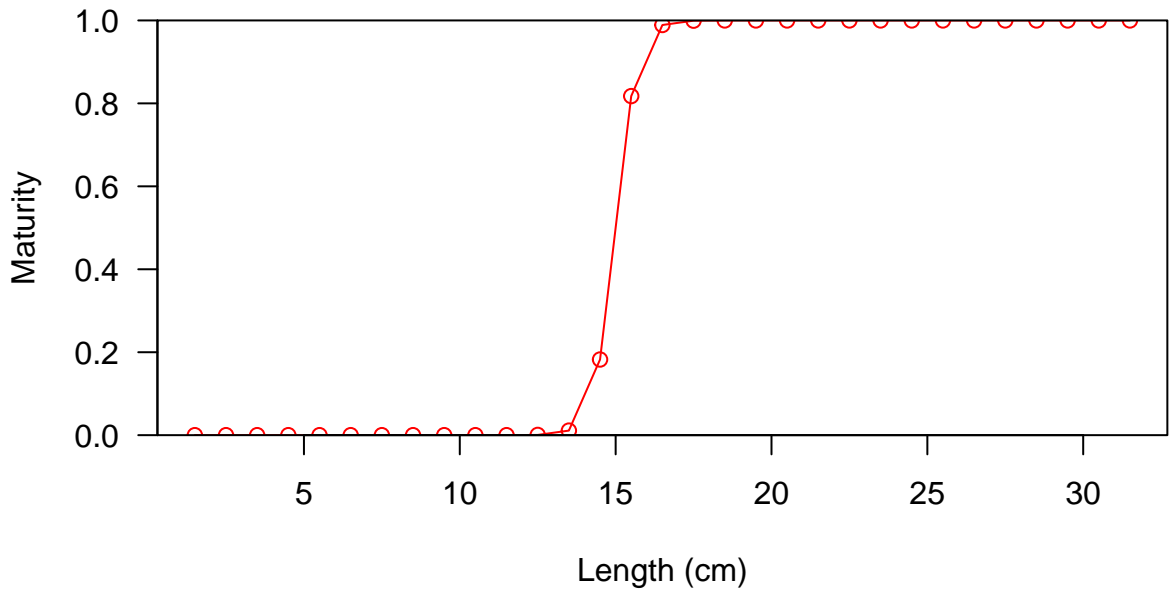




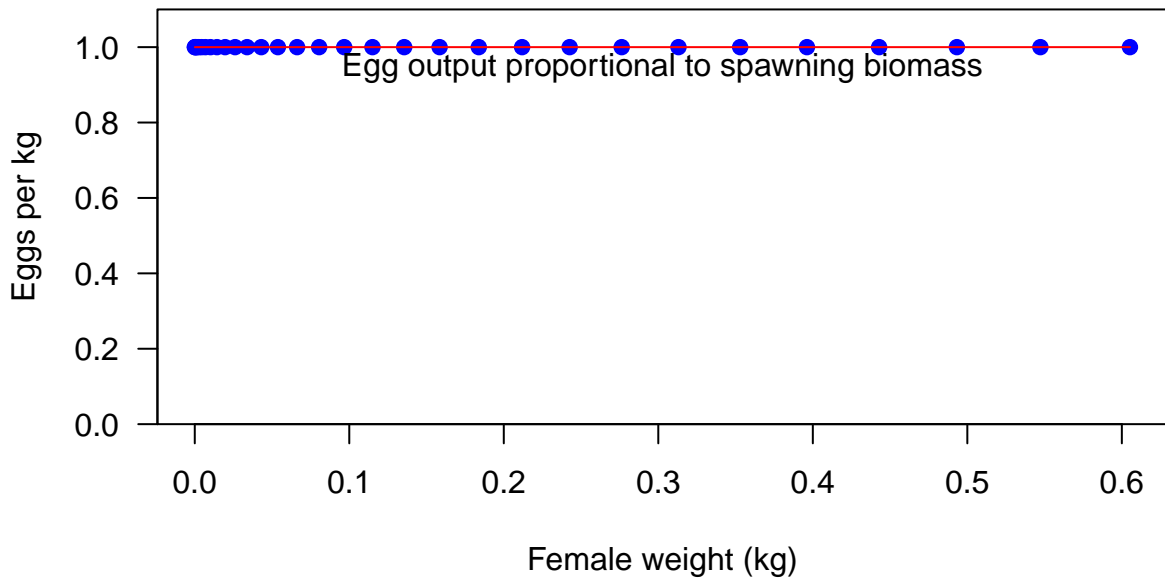


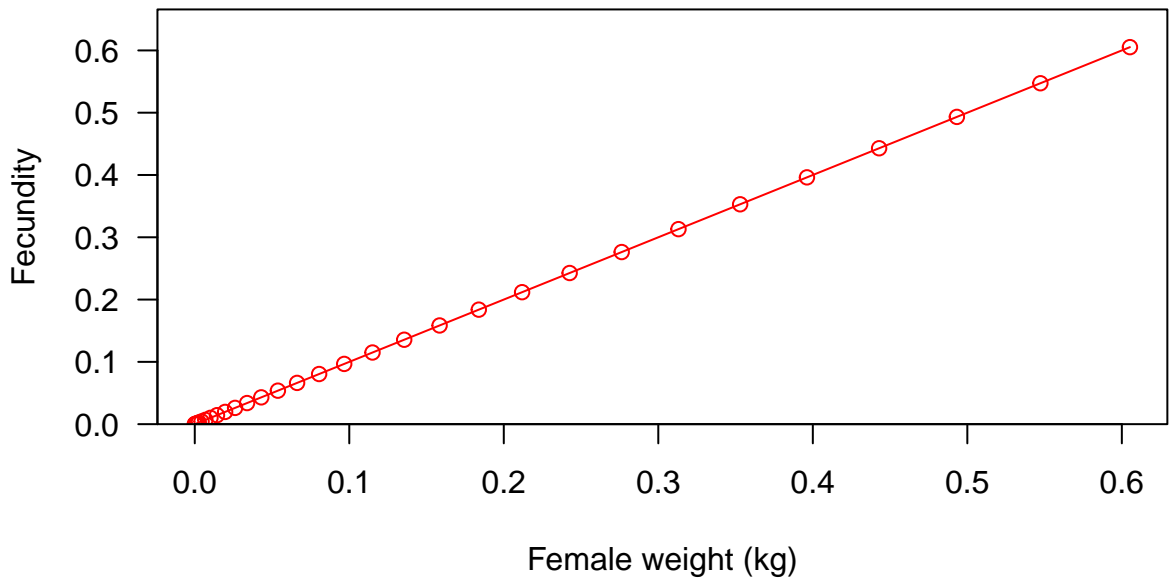


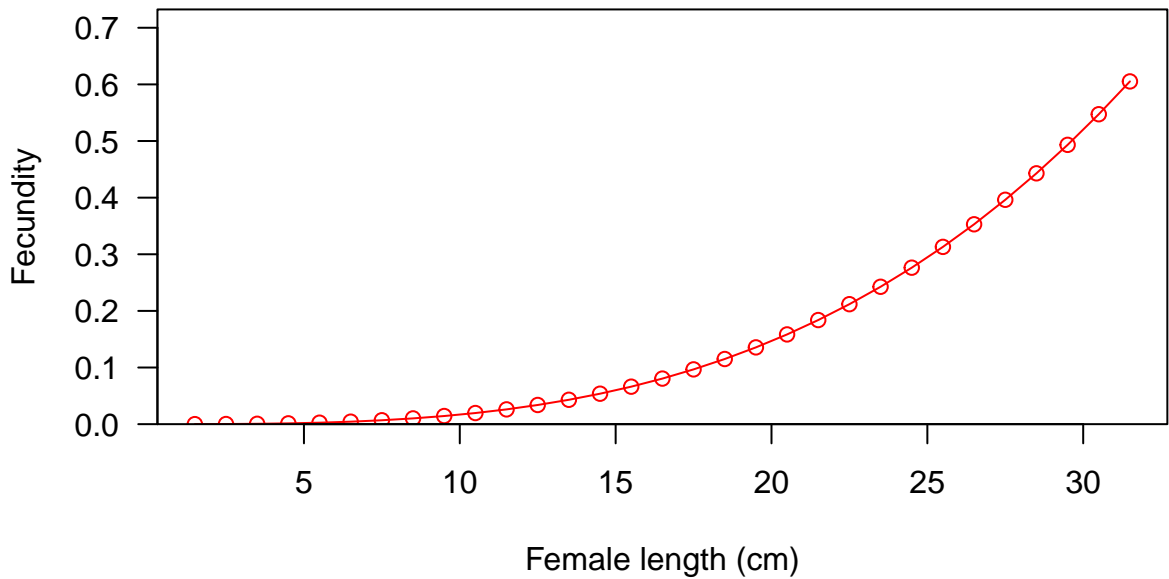




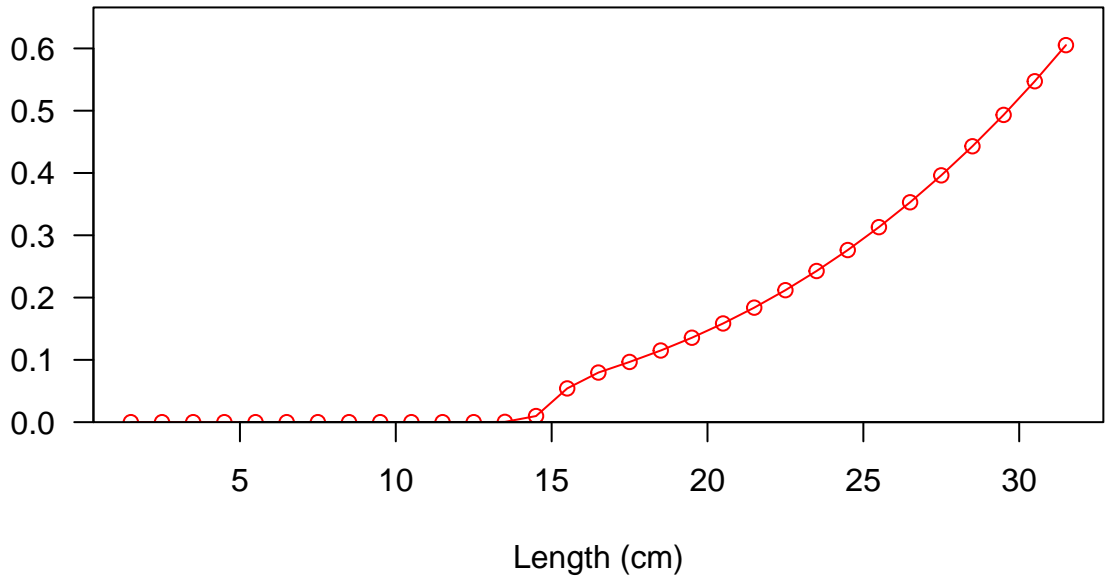




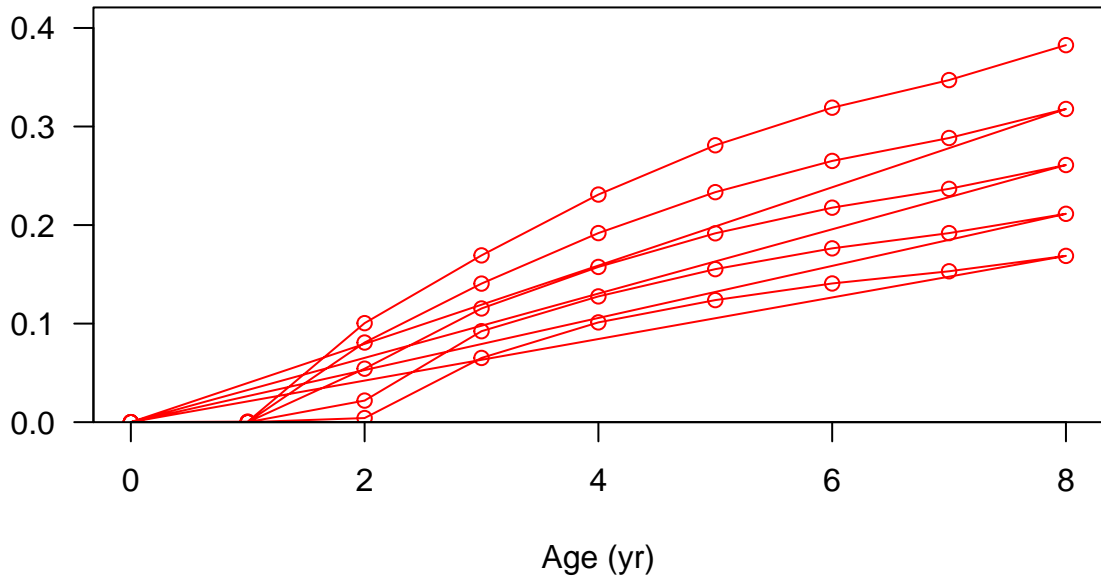




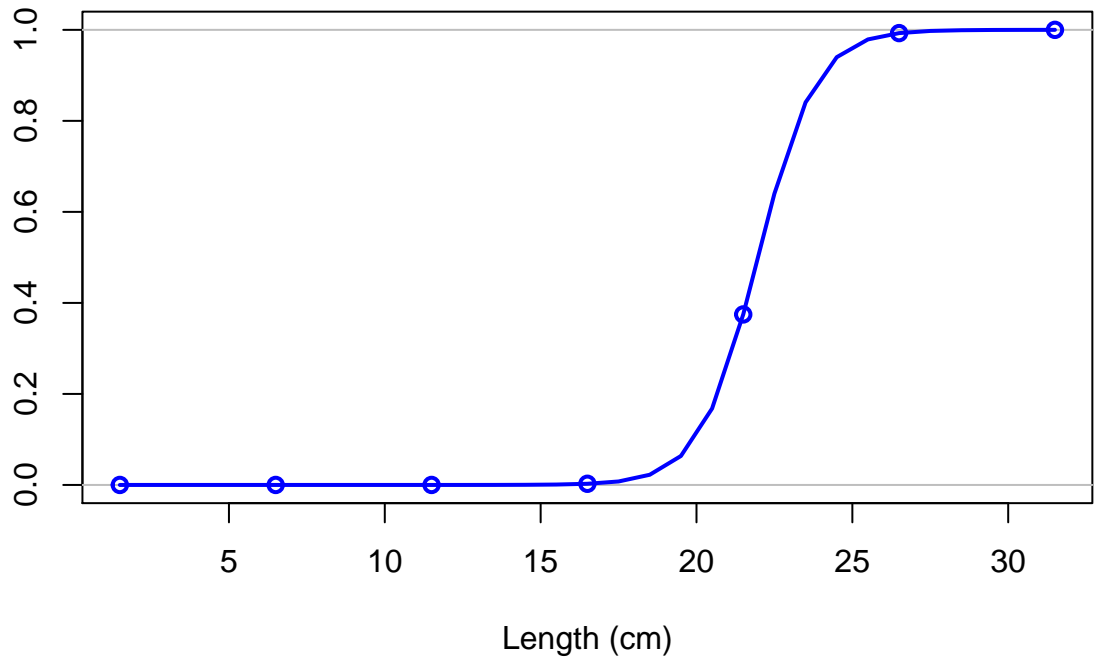
Spawning output



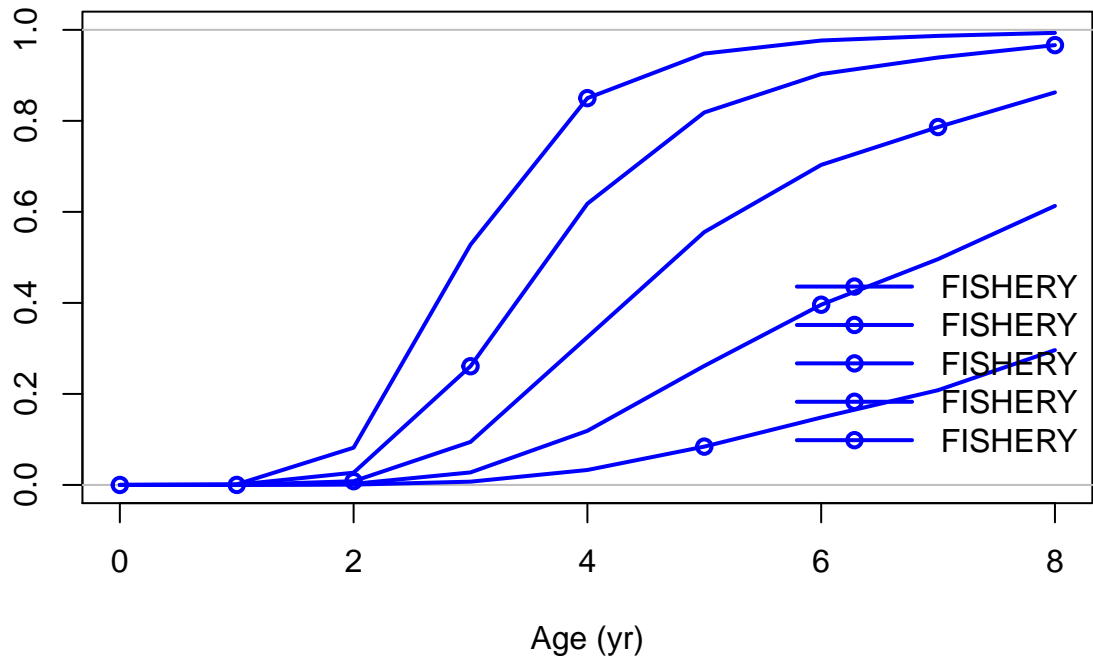
Spawning output



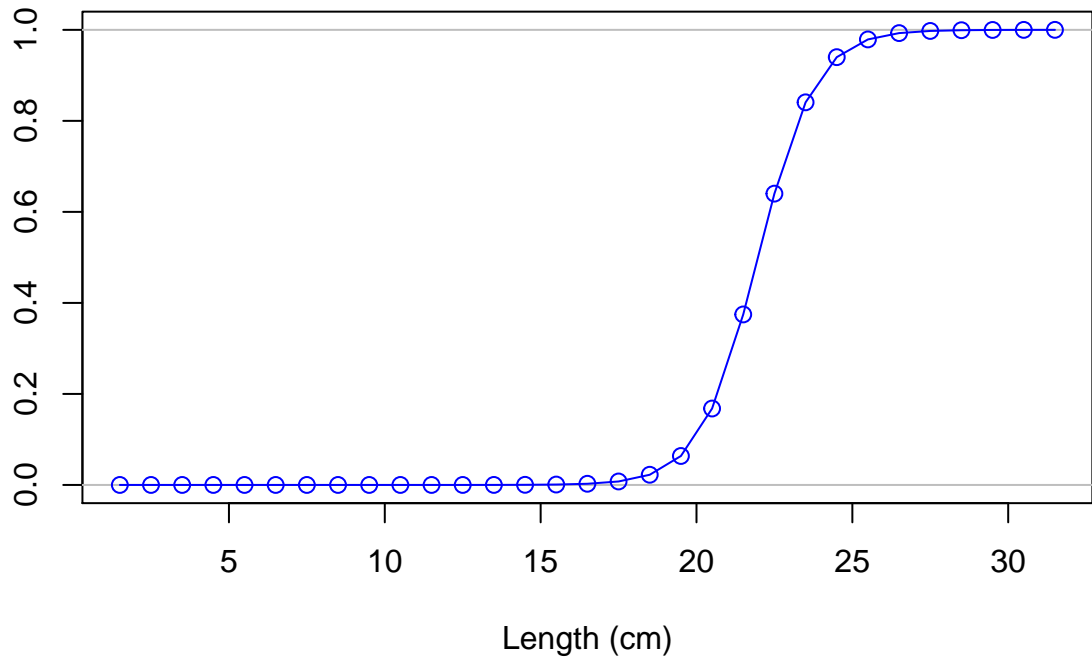
Selectivity



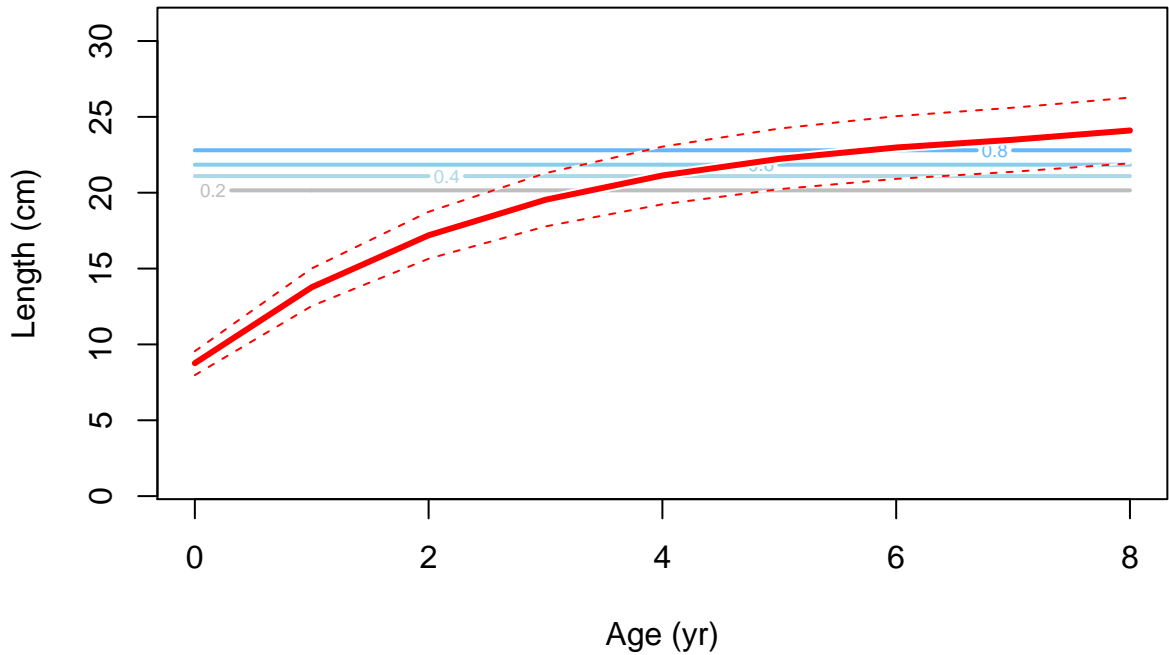
Selectivity



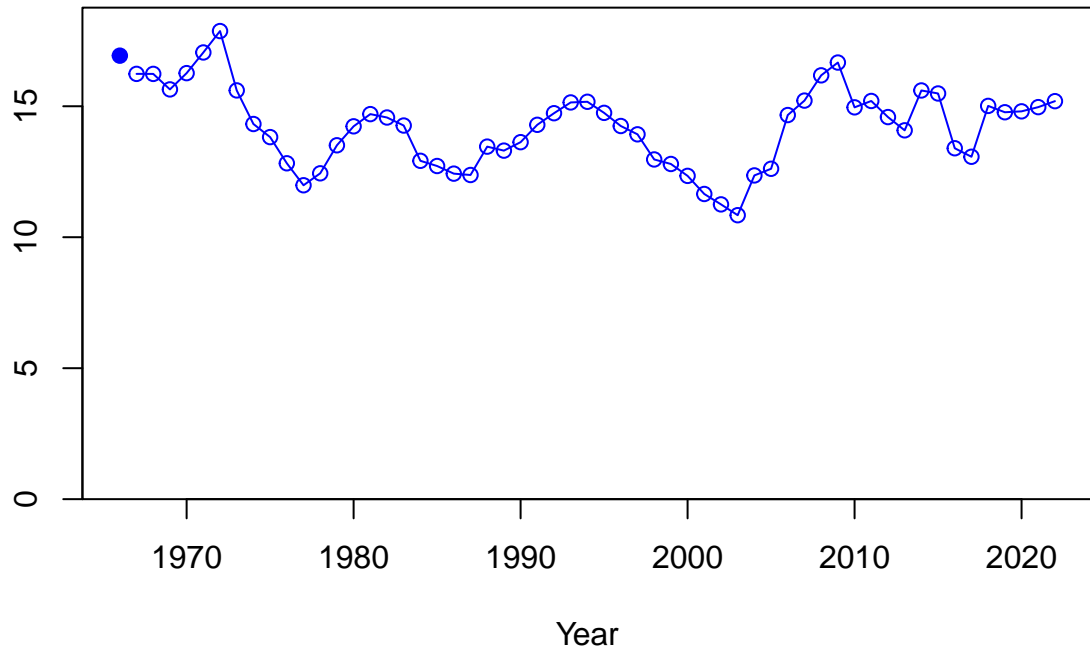
Selectivity



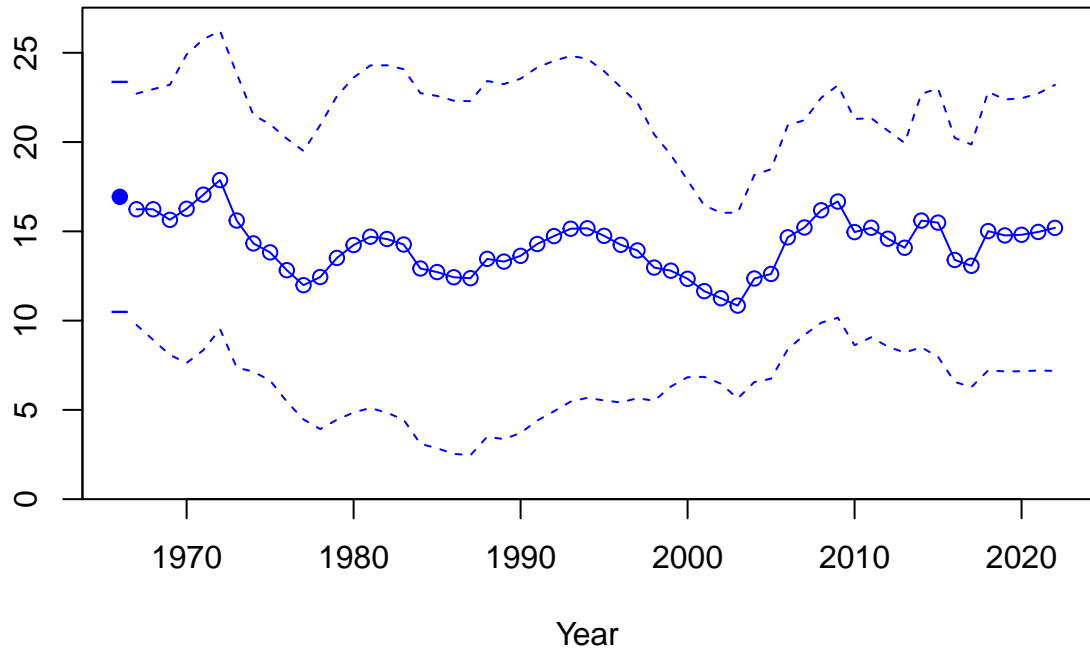




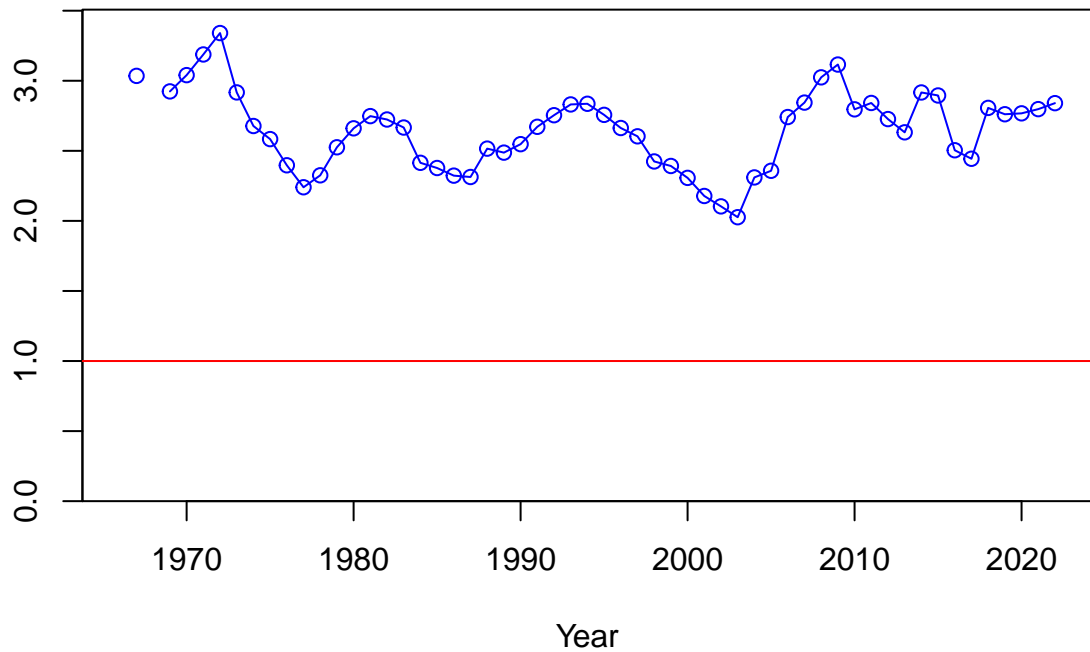
Spawning biomass (mt)



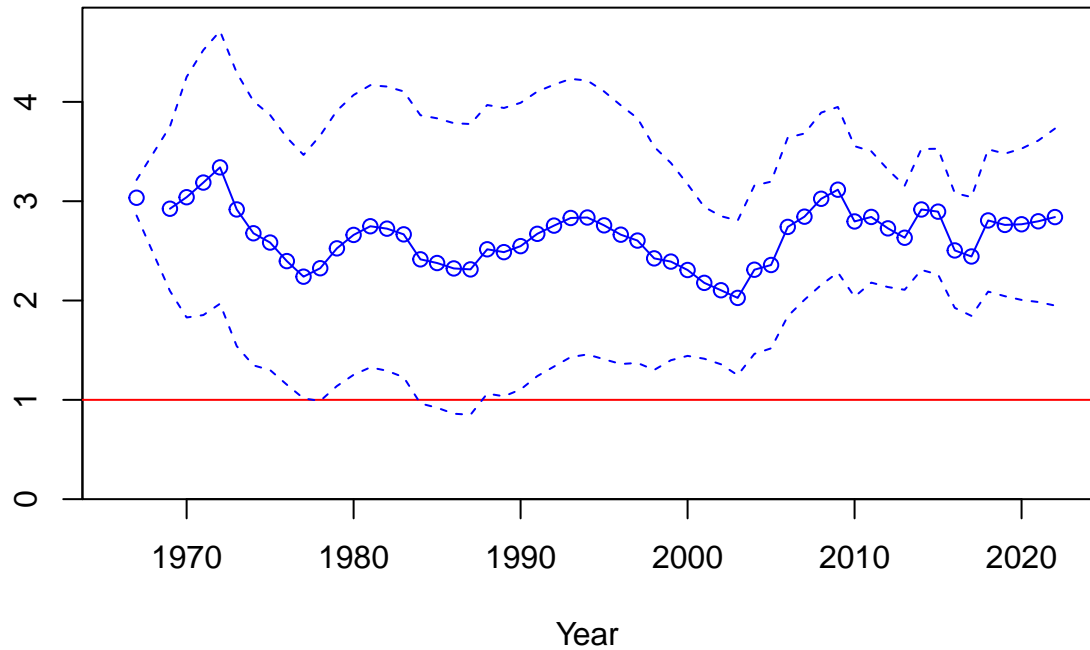
Spawning biomass (mt)

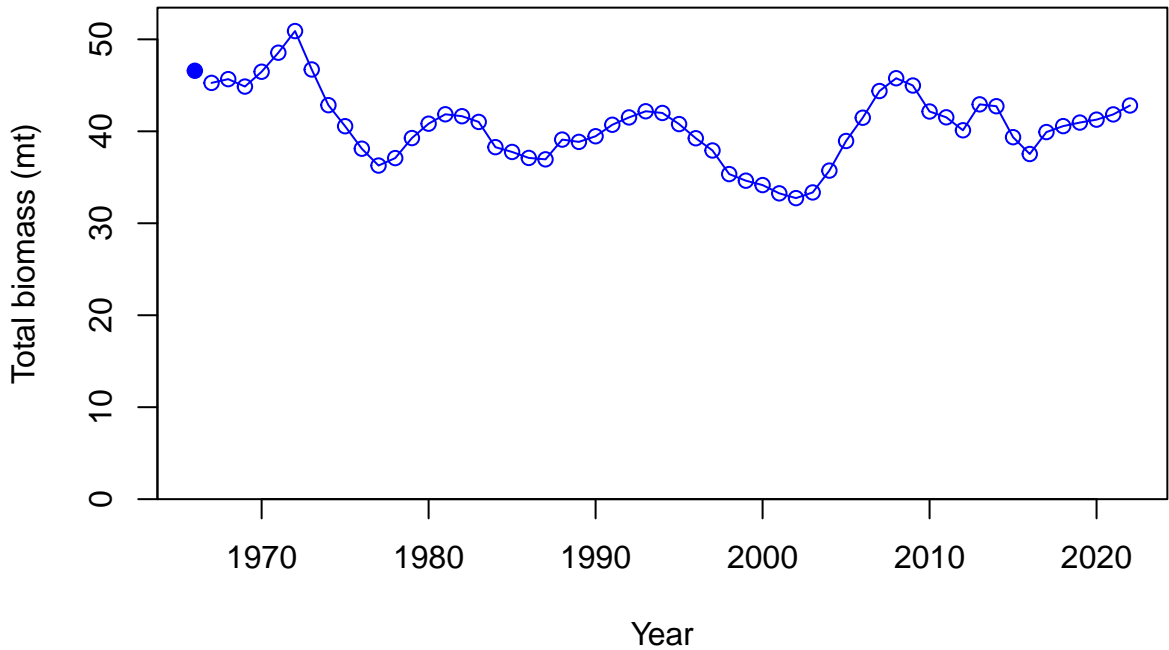


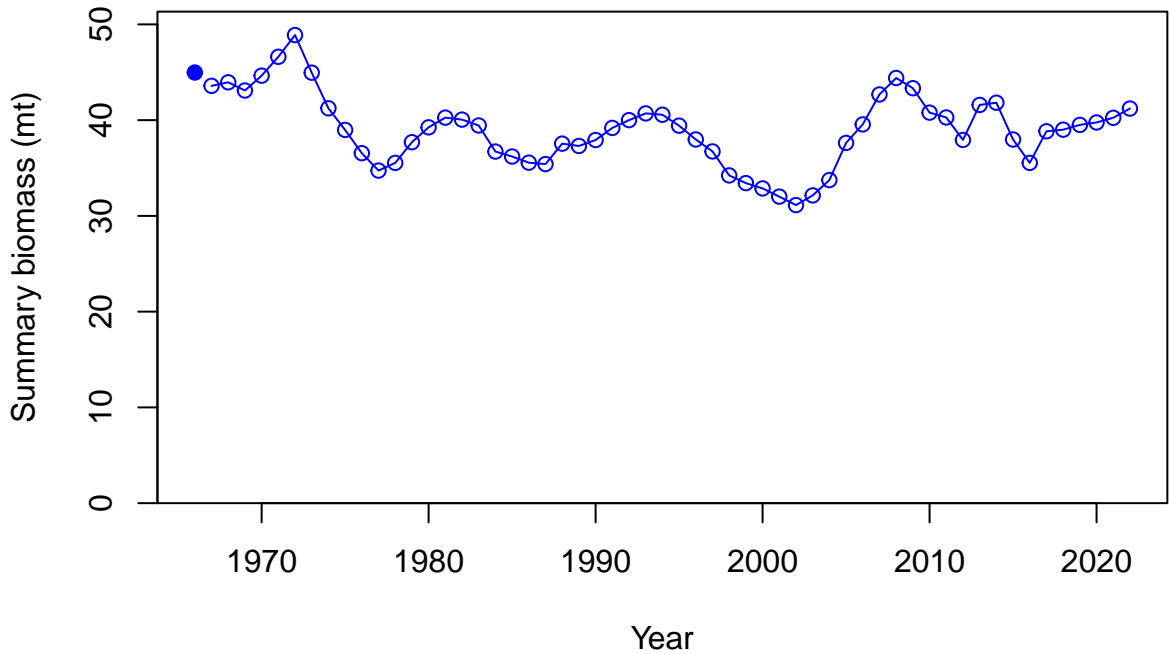
Relative spawning biomass:  $B/B_{MSY}$

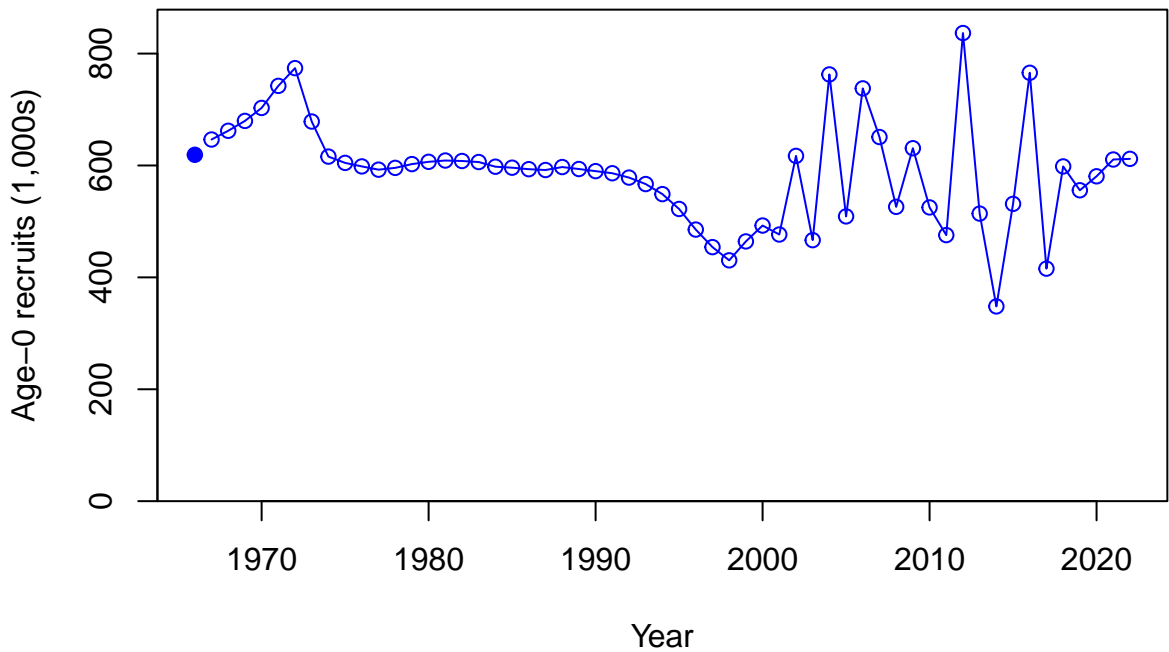


Relative spawning biomass:  $B/B_{MSY}$

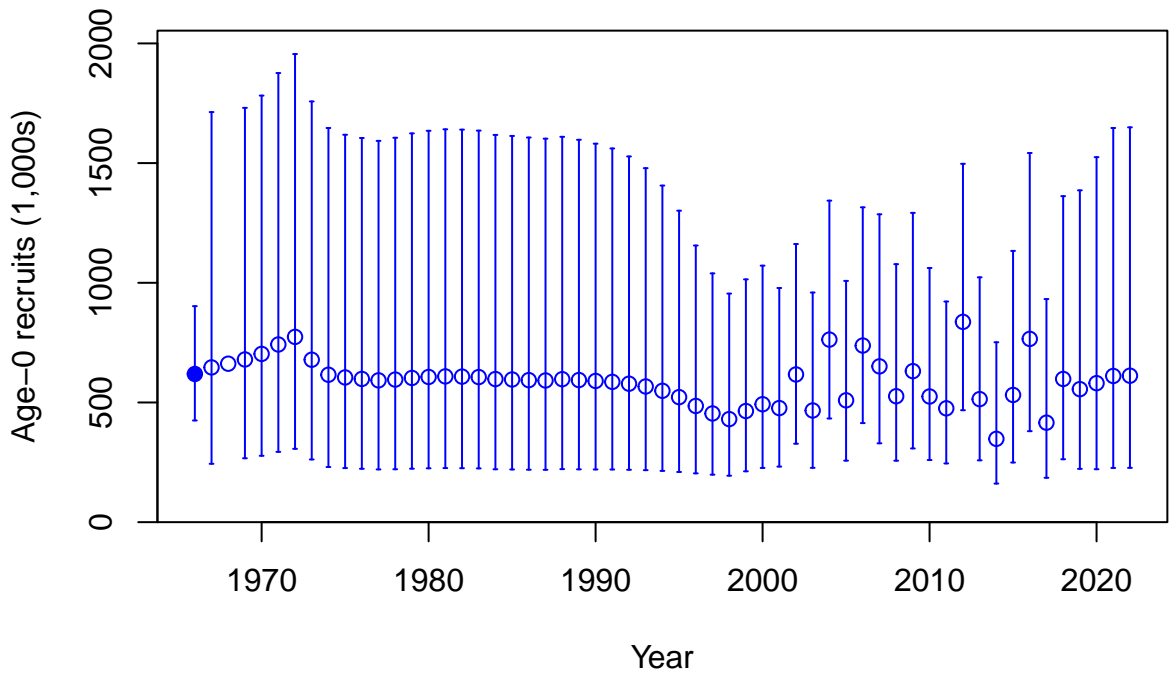




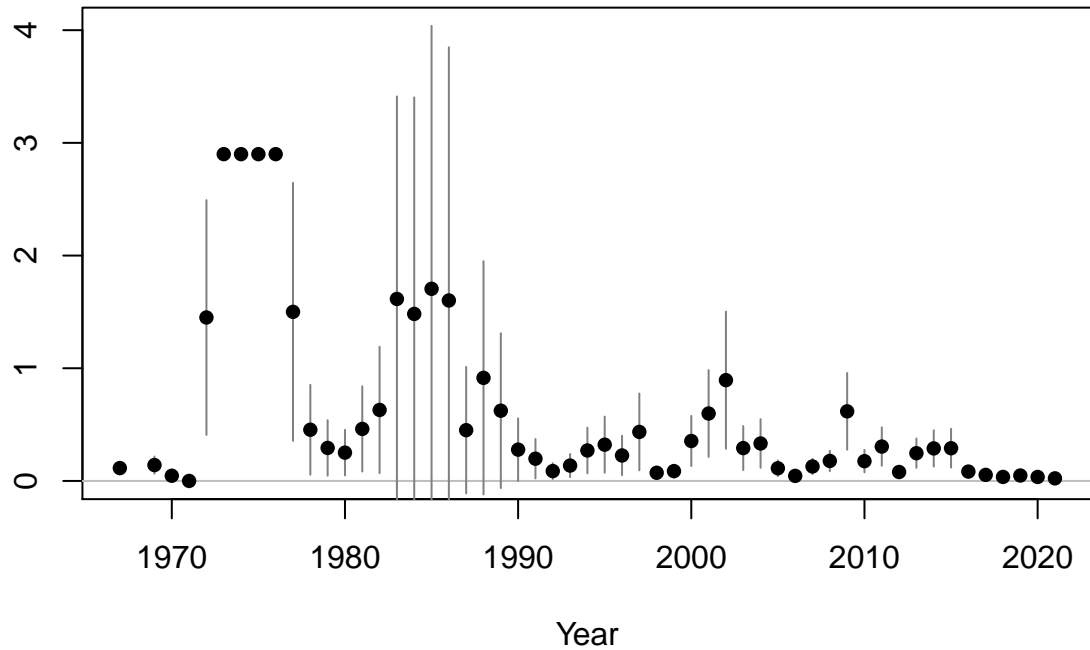


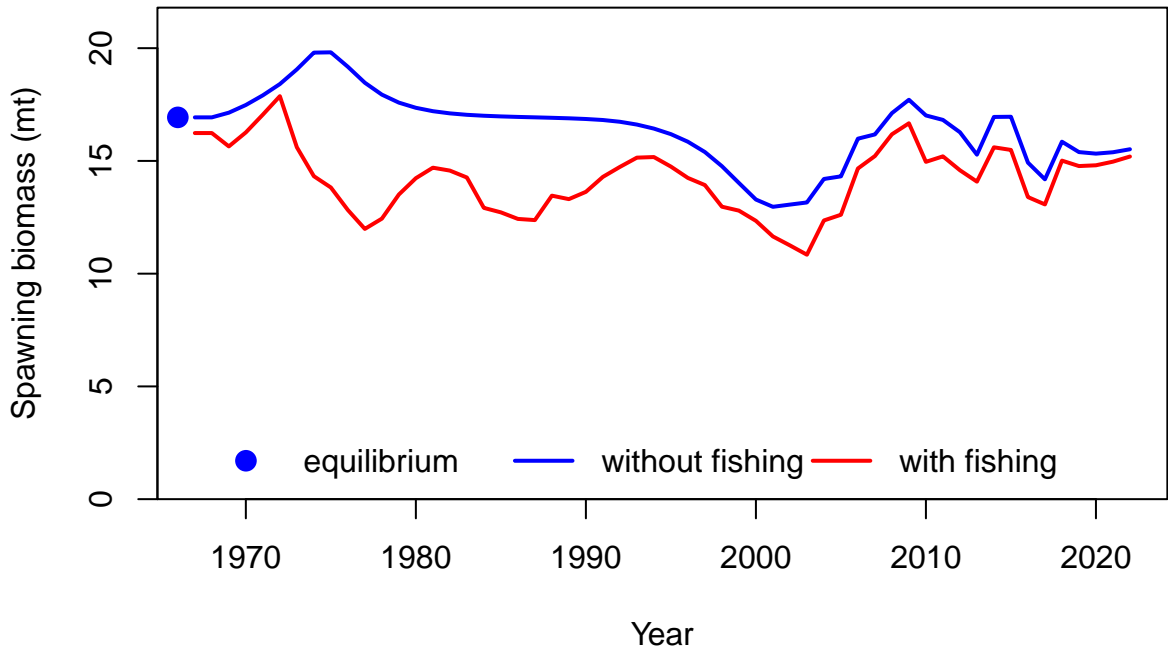




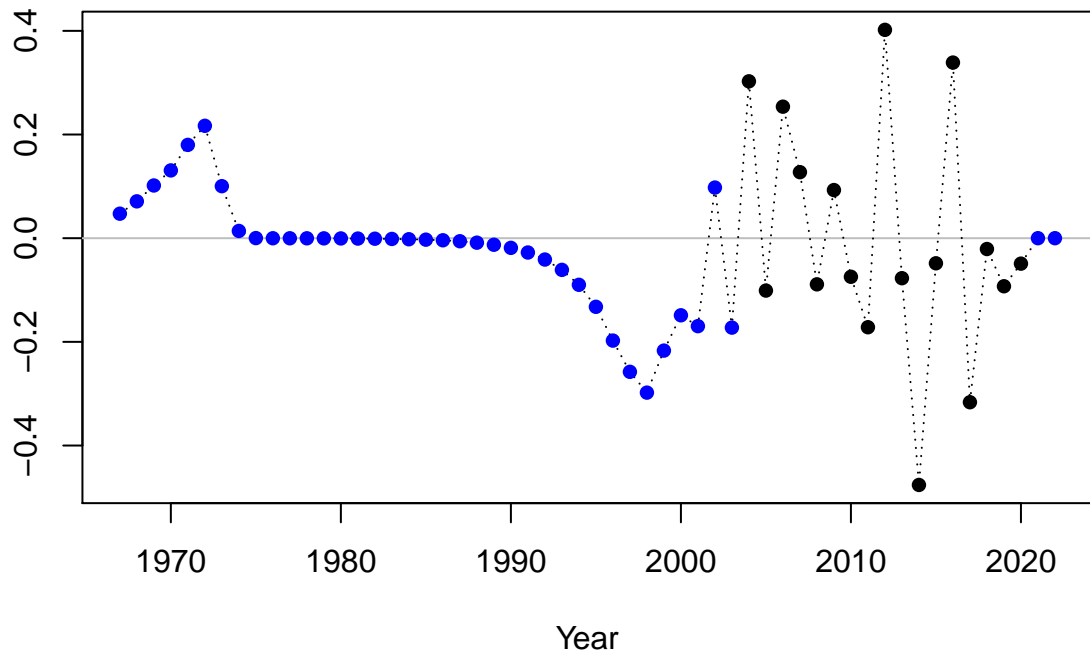


Summary Fishing Mortality

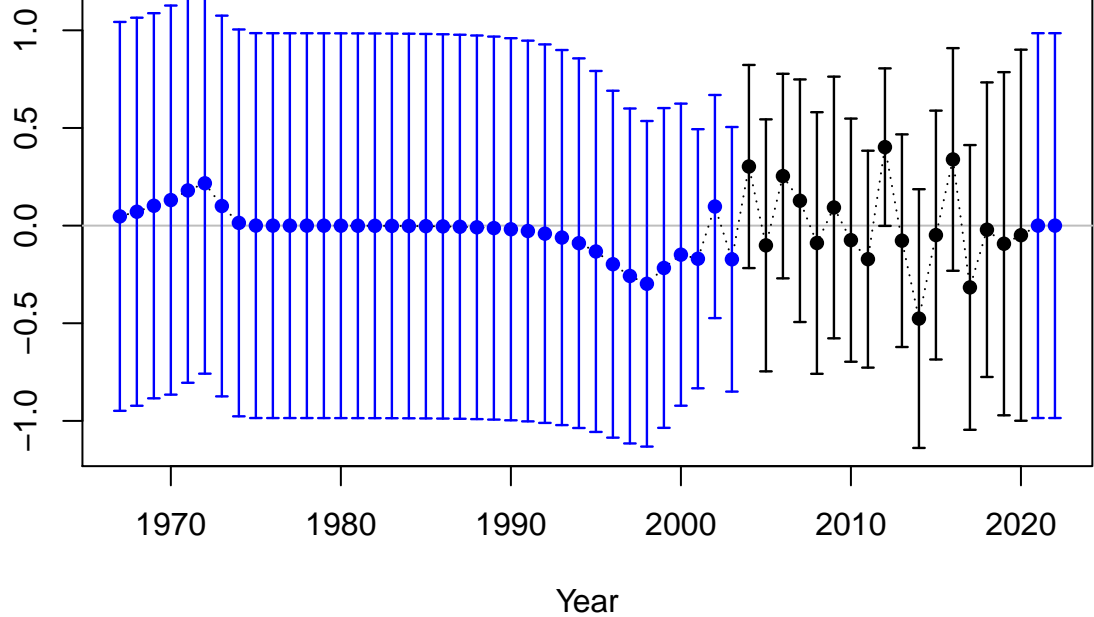




Log recruitment deviation

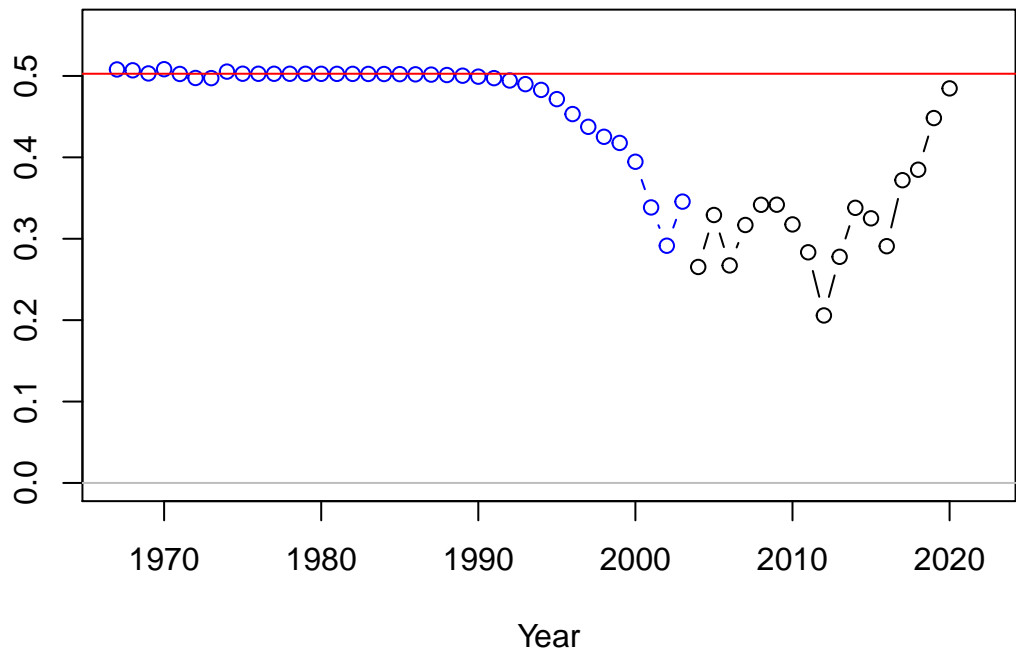


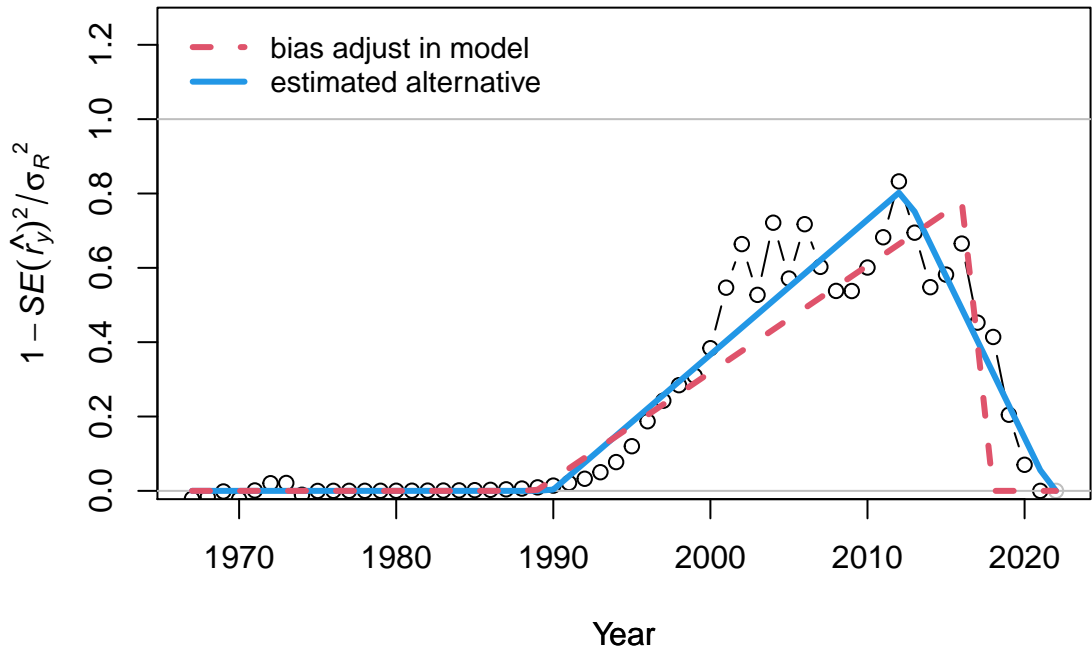
Log recruitment deviation

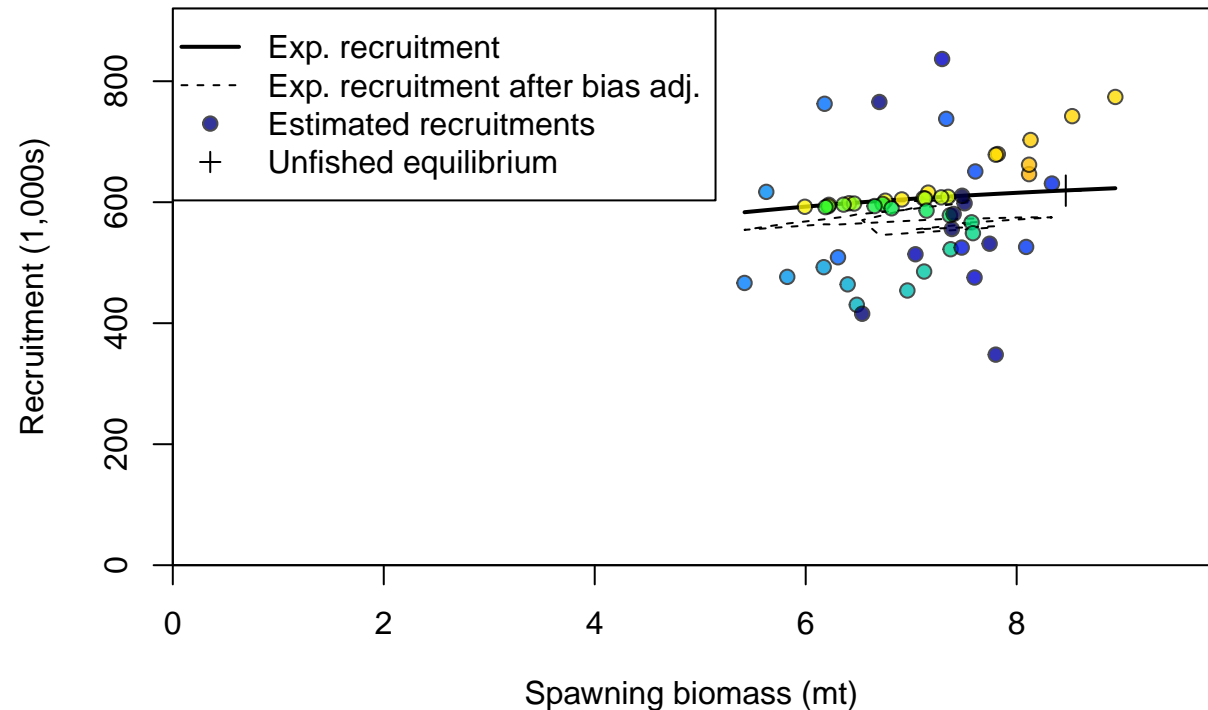


## Recruitment deviation variance

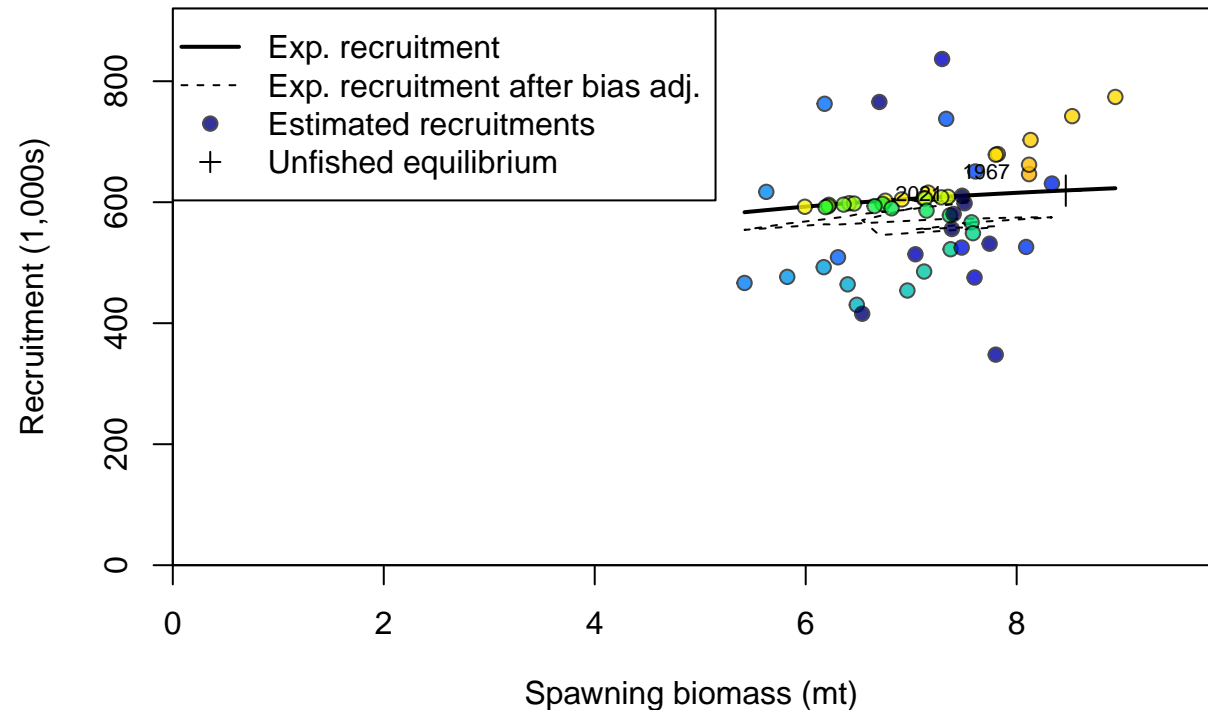
Asymptotic standard error estimate

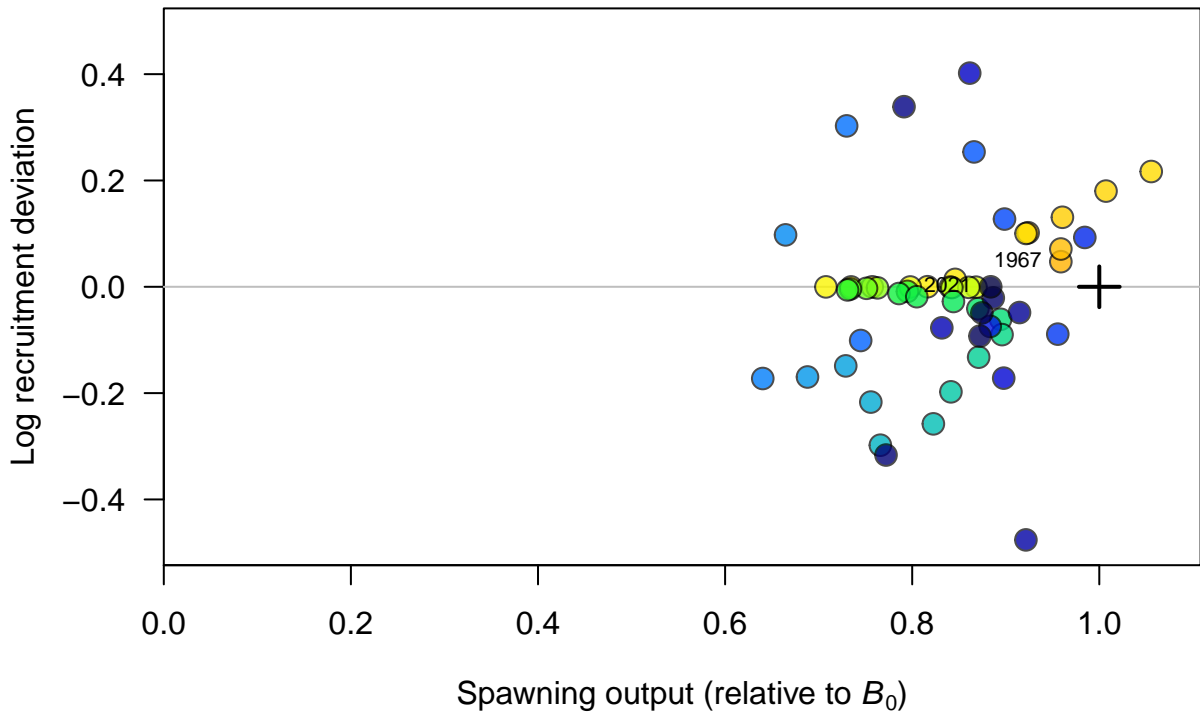


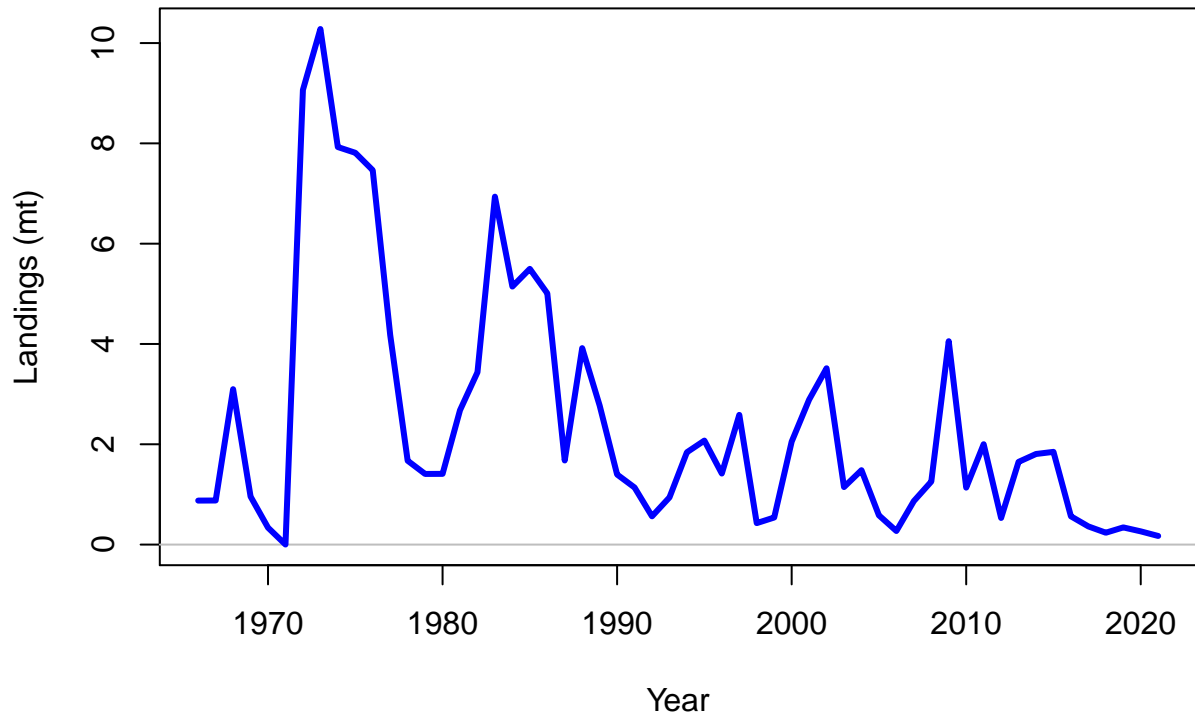


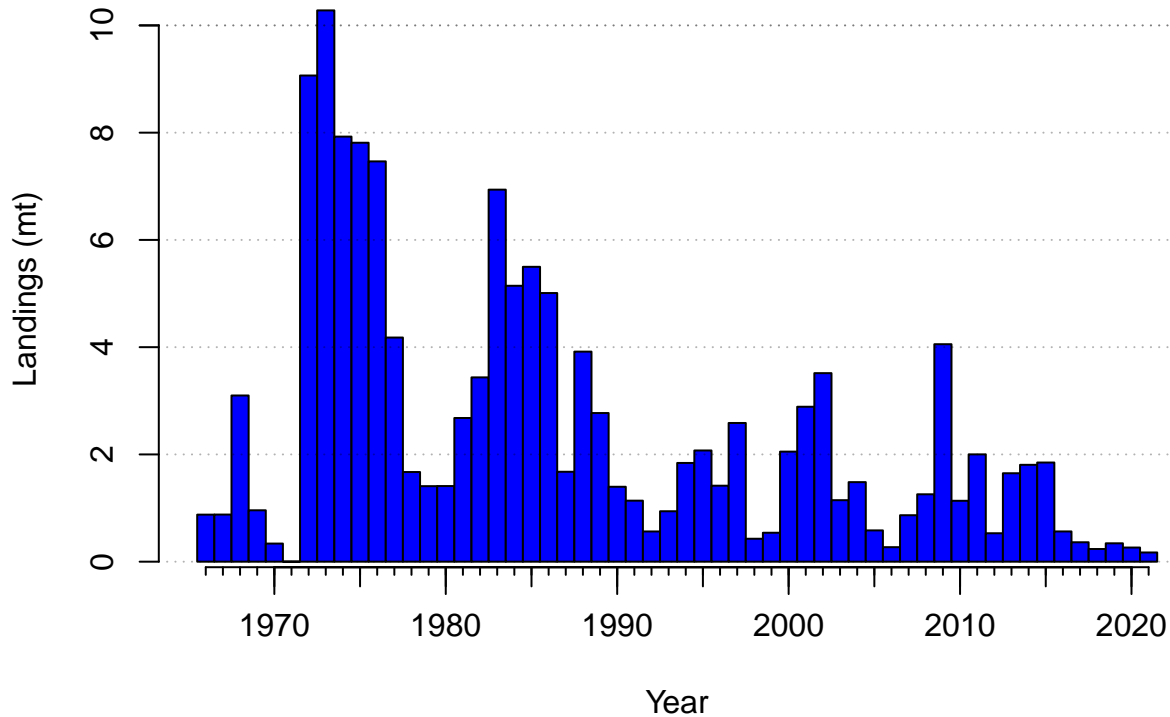


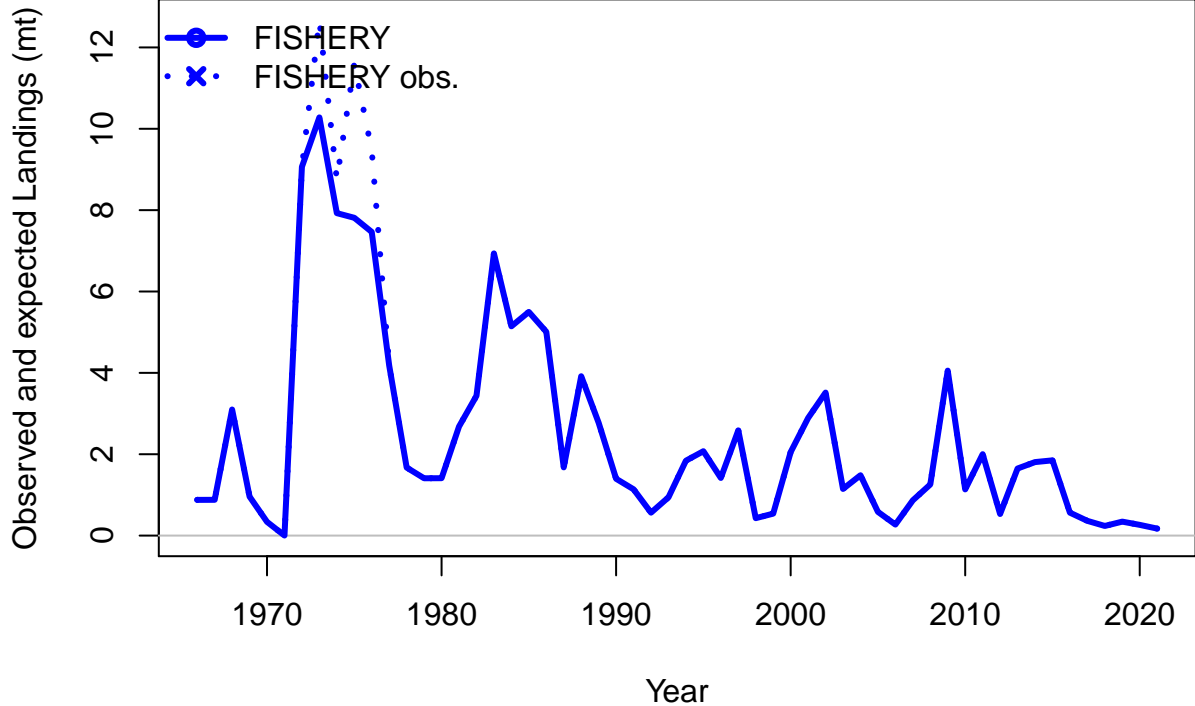


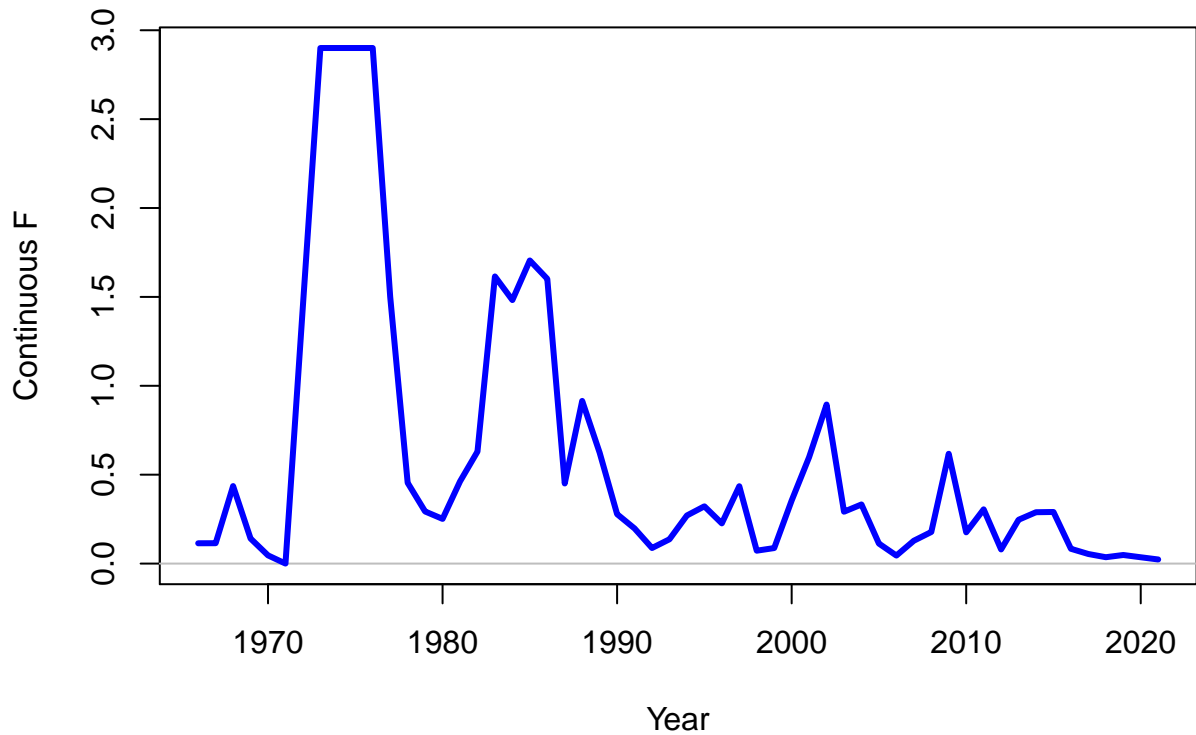




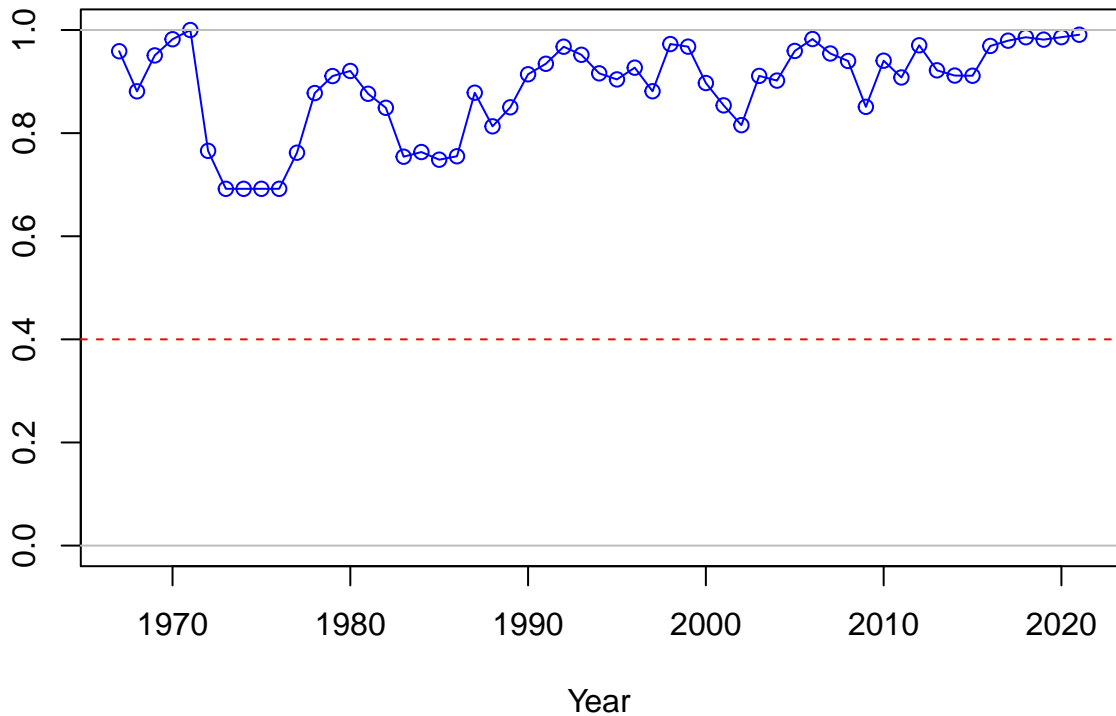




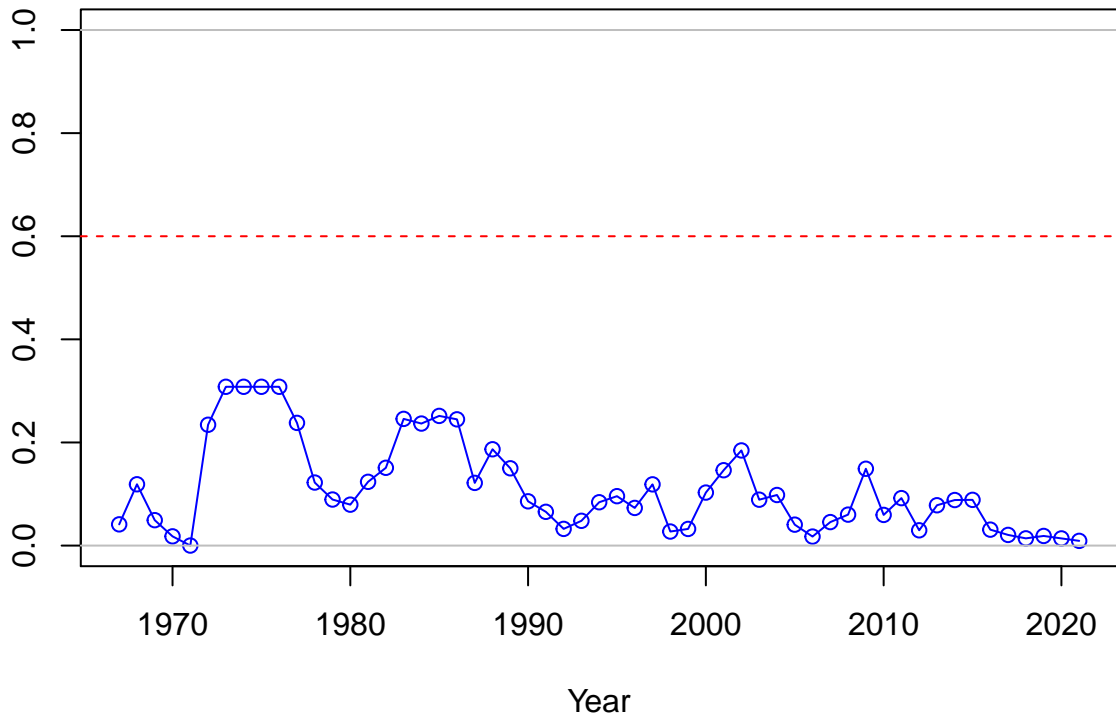




SPR

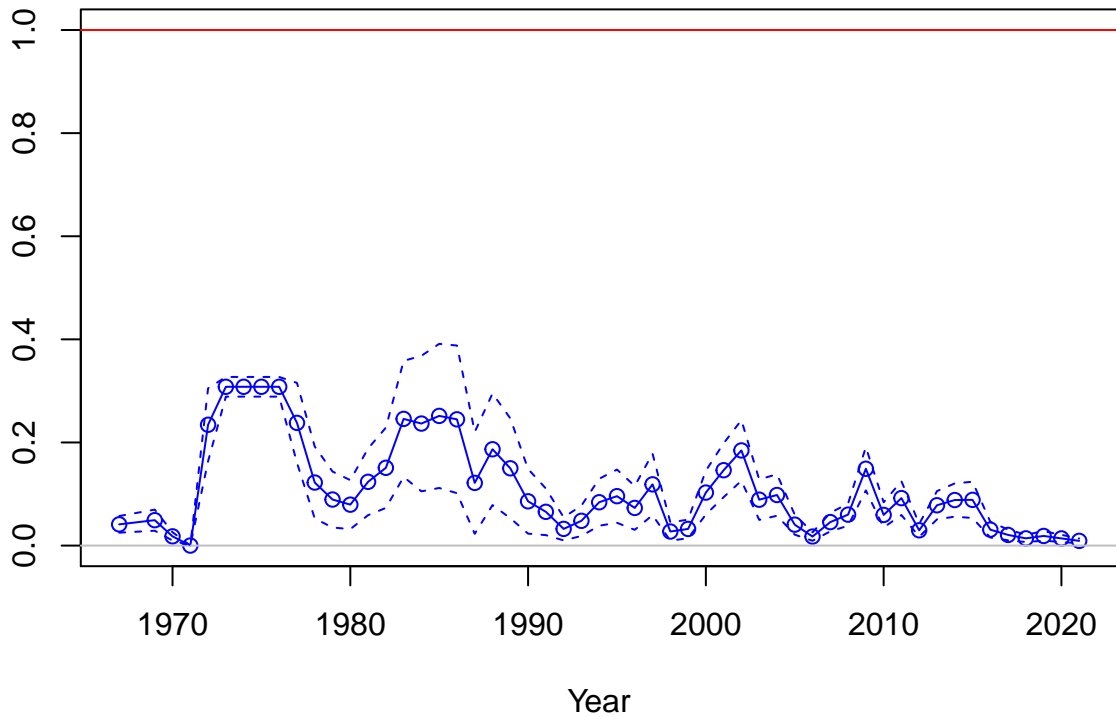


1-SPR

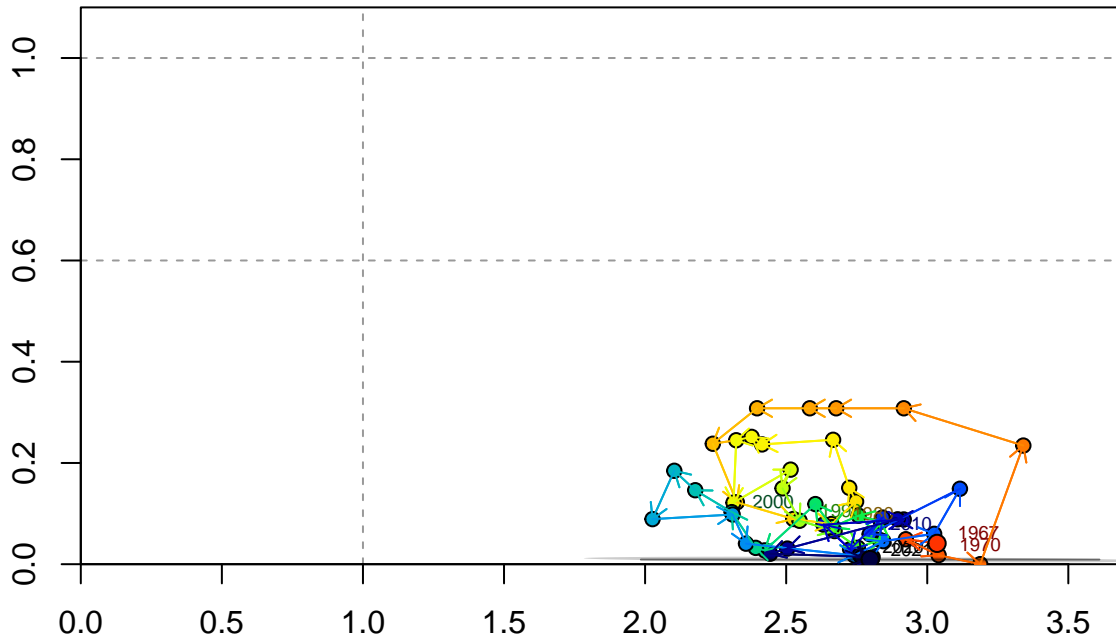




Fishing intensity: 1-SPR

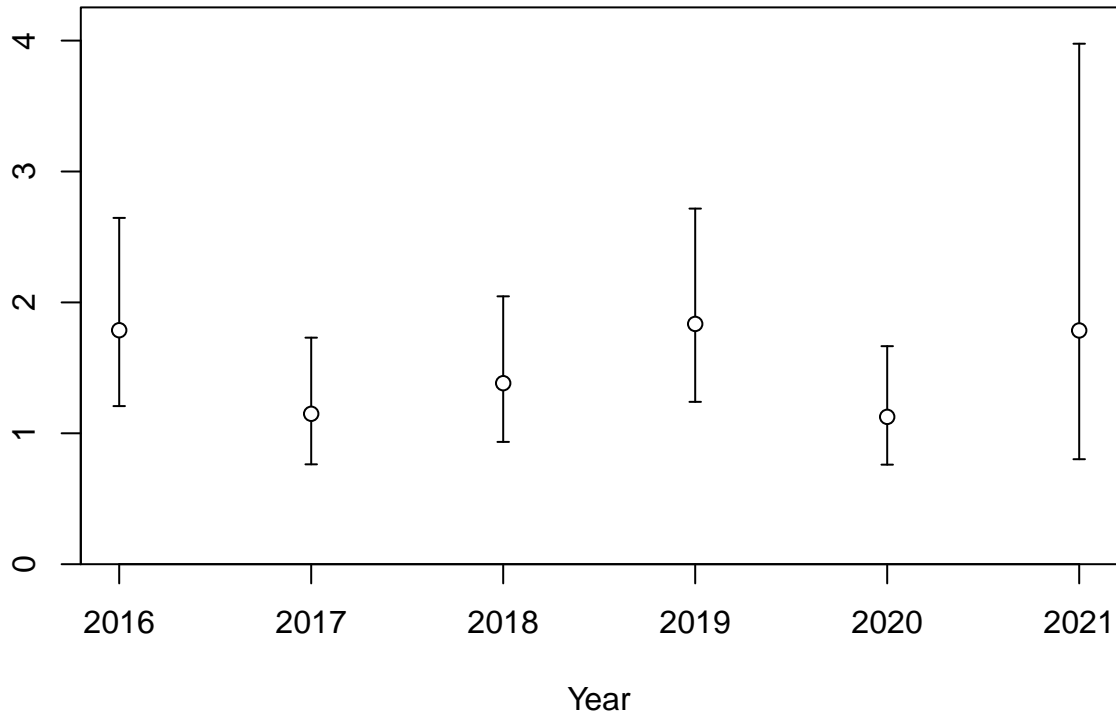


Fishing intensity: 1-SPR

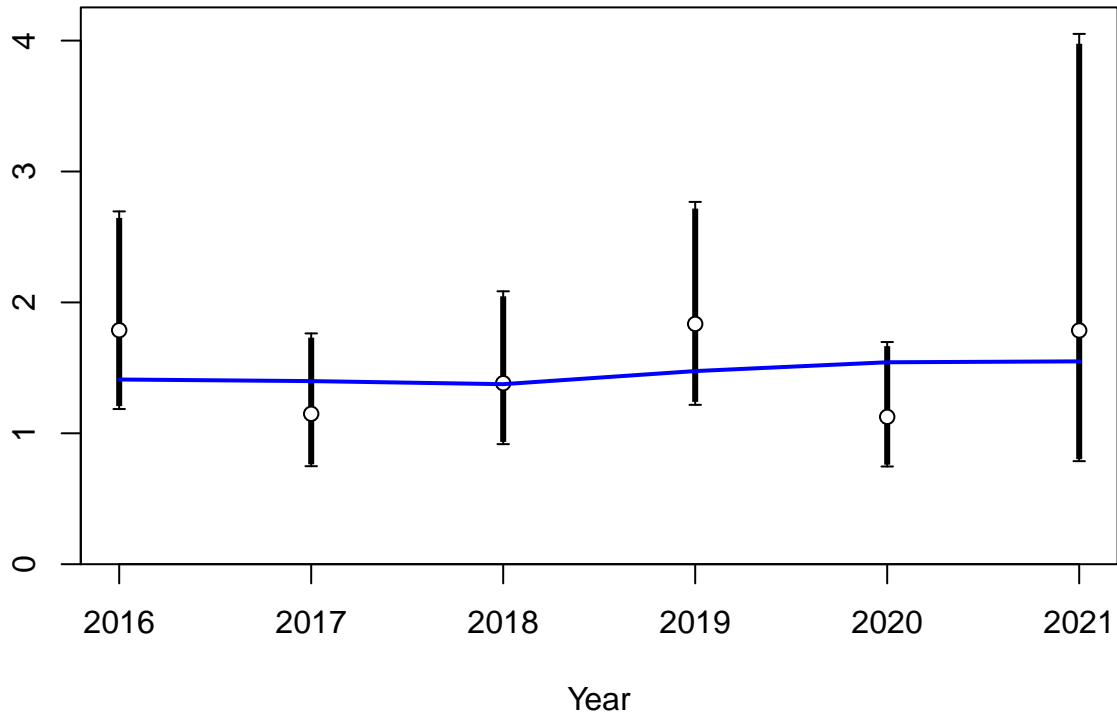


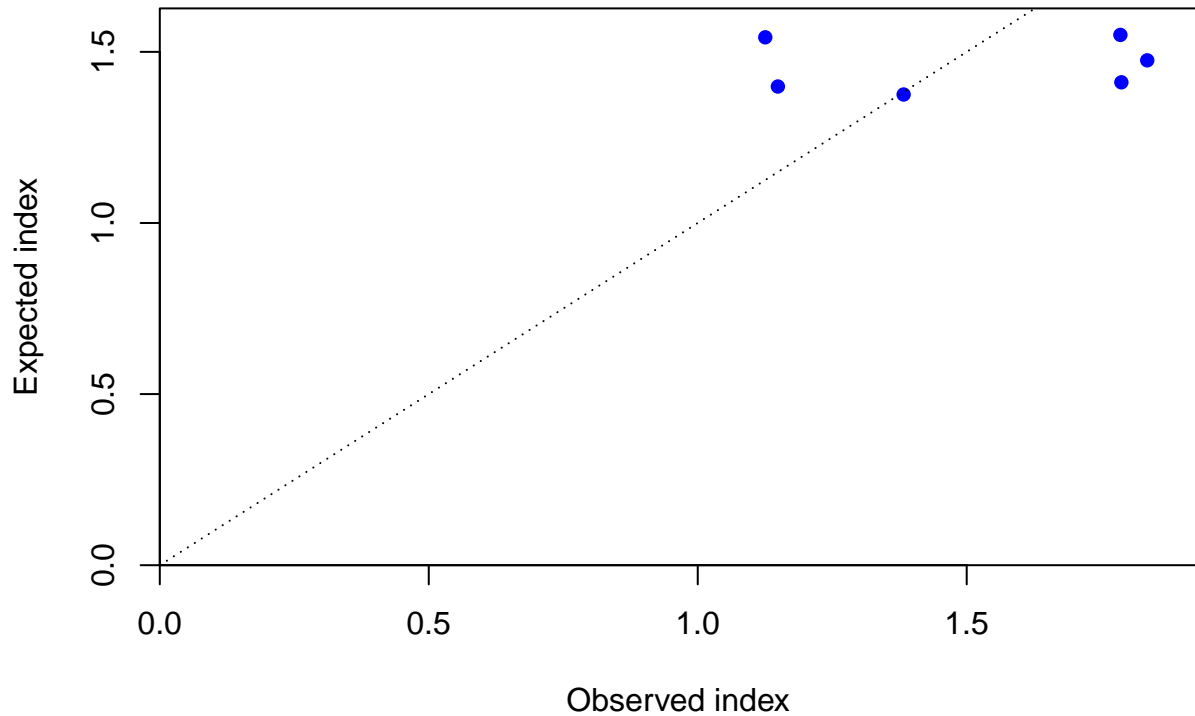
Relative spawning output:  $B/B_{MSY}$

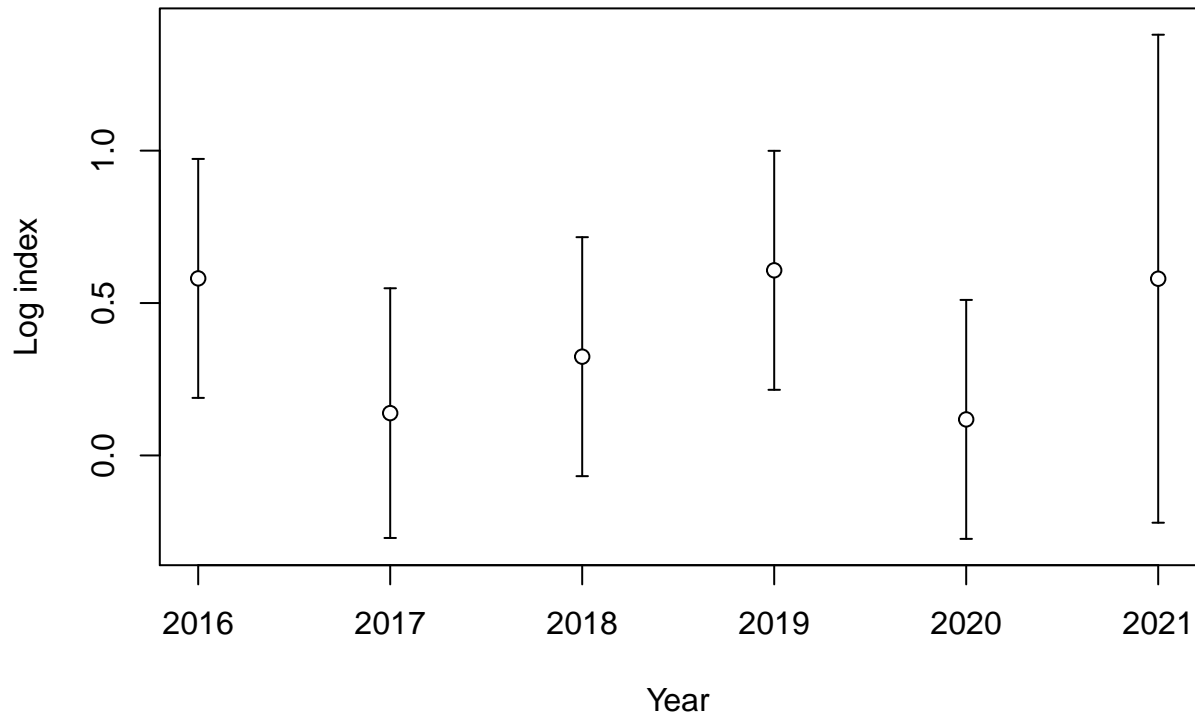
Index

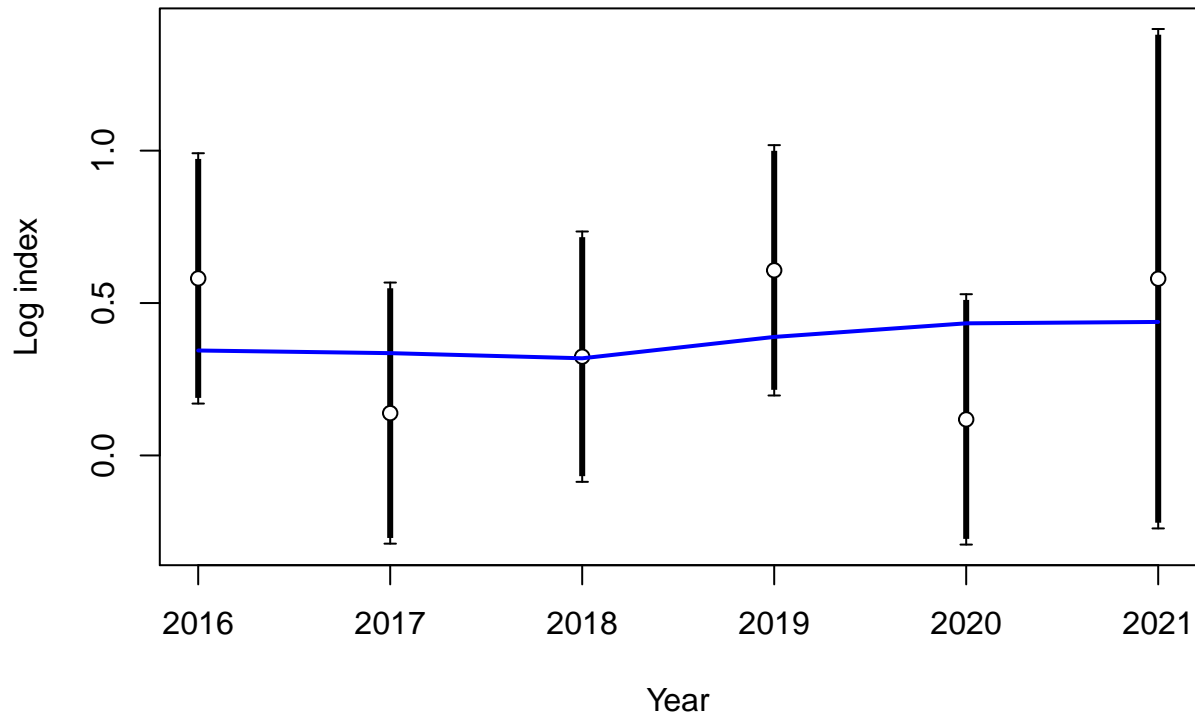


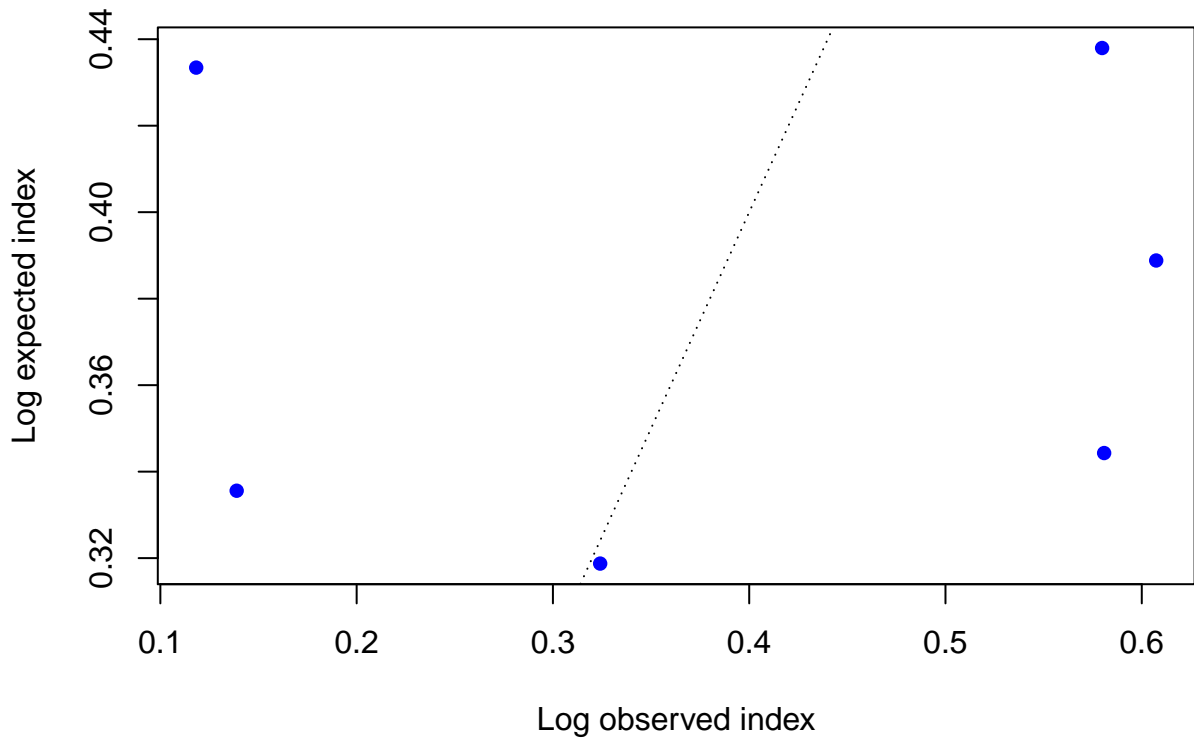
Index





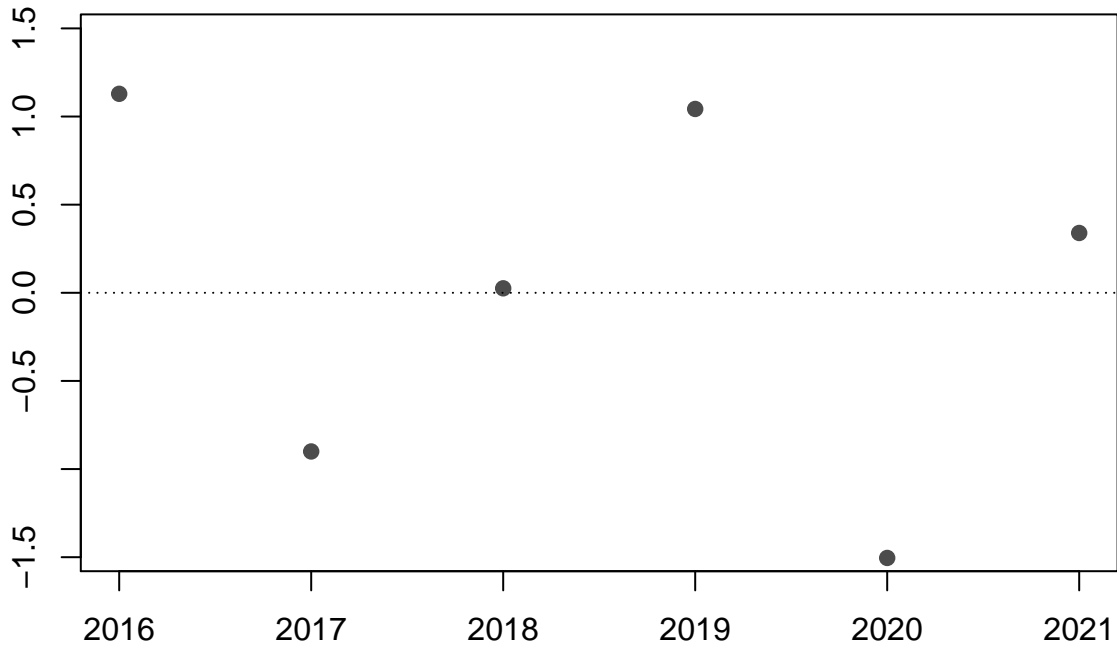




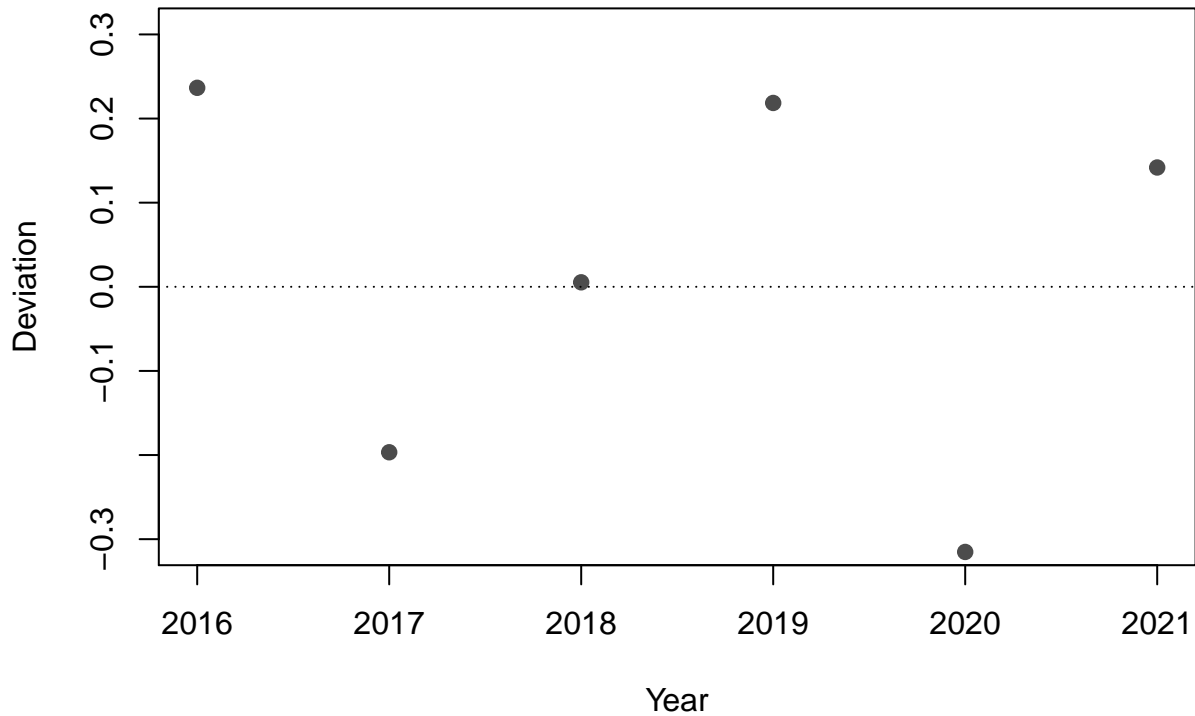


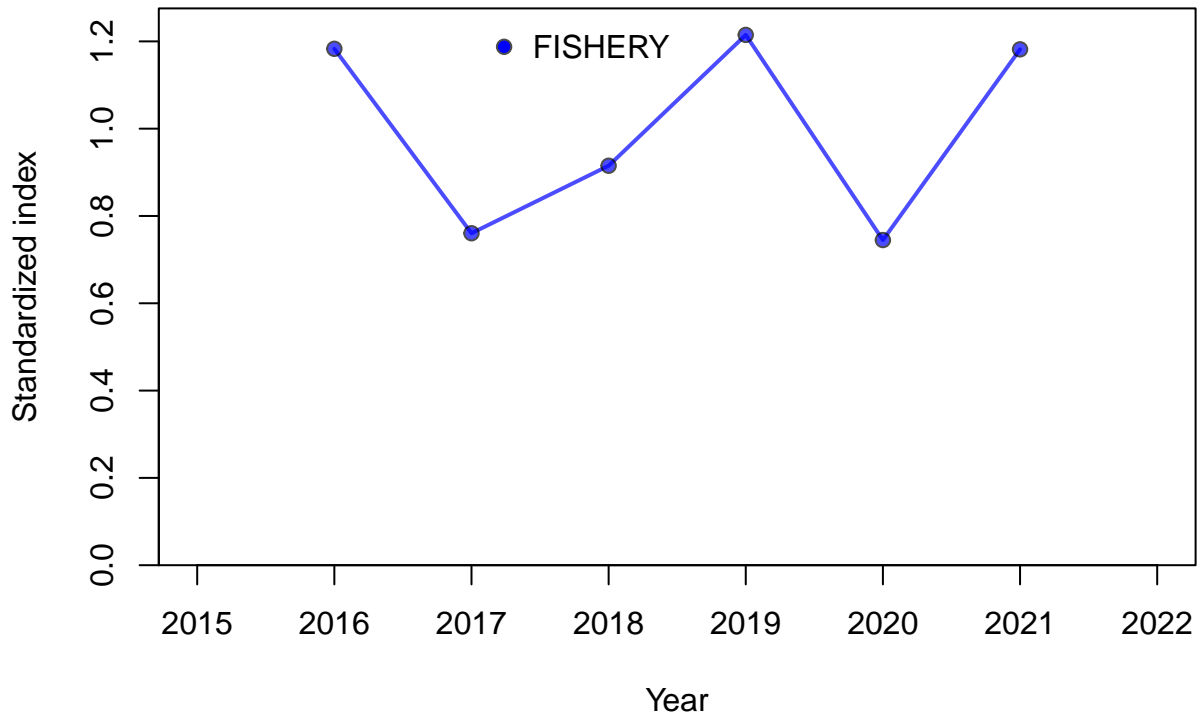


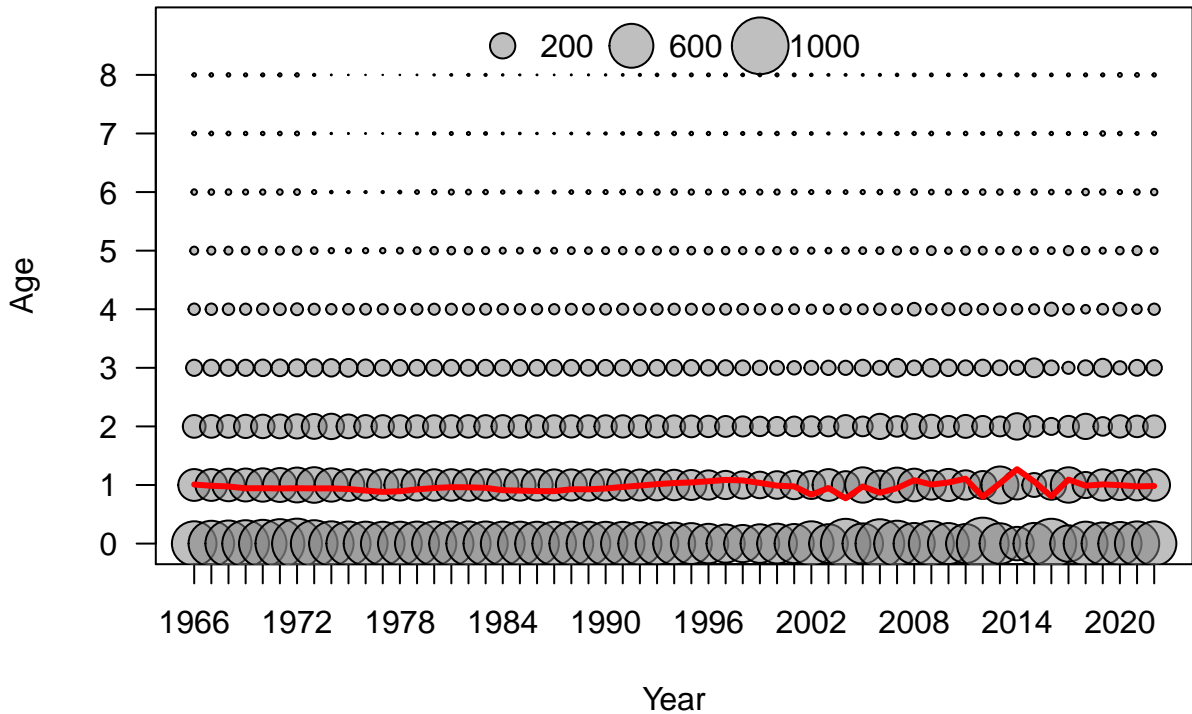
Residual



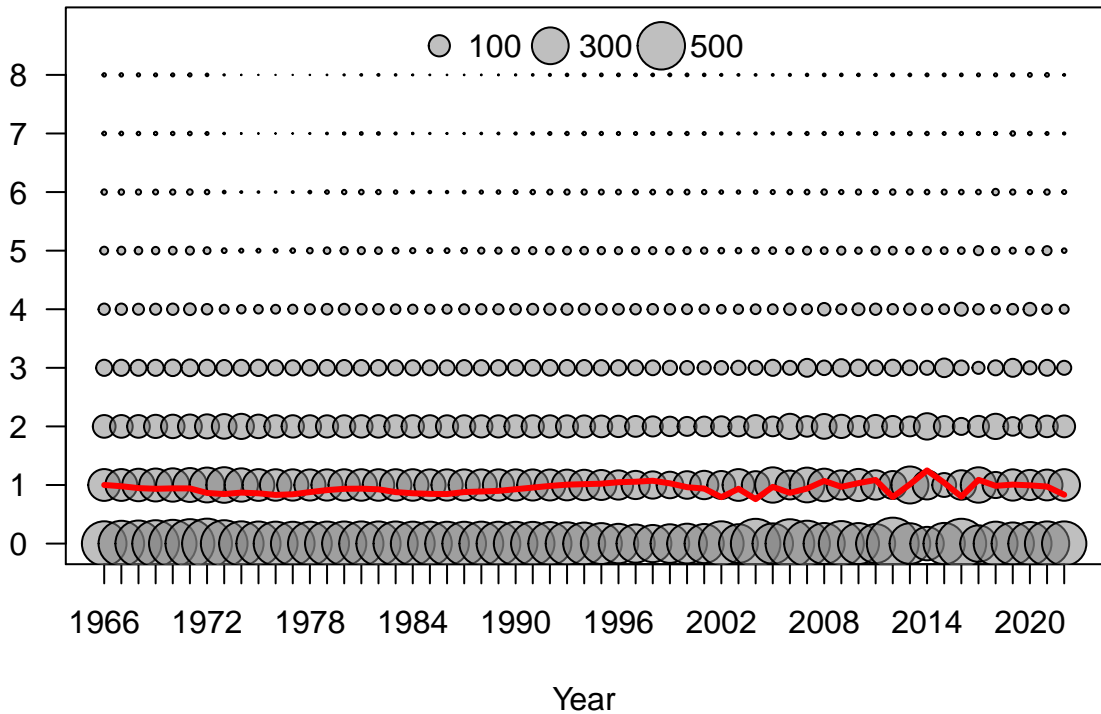
Year

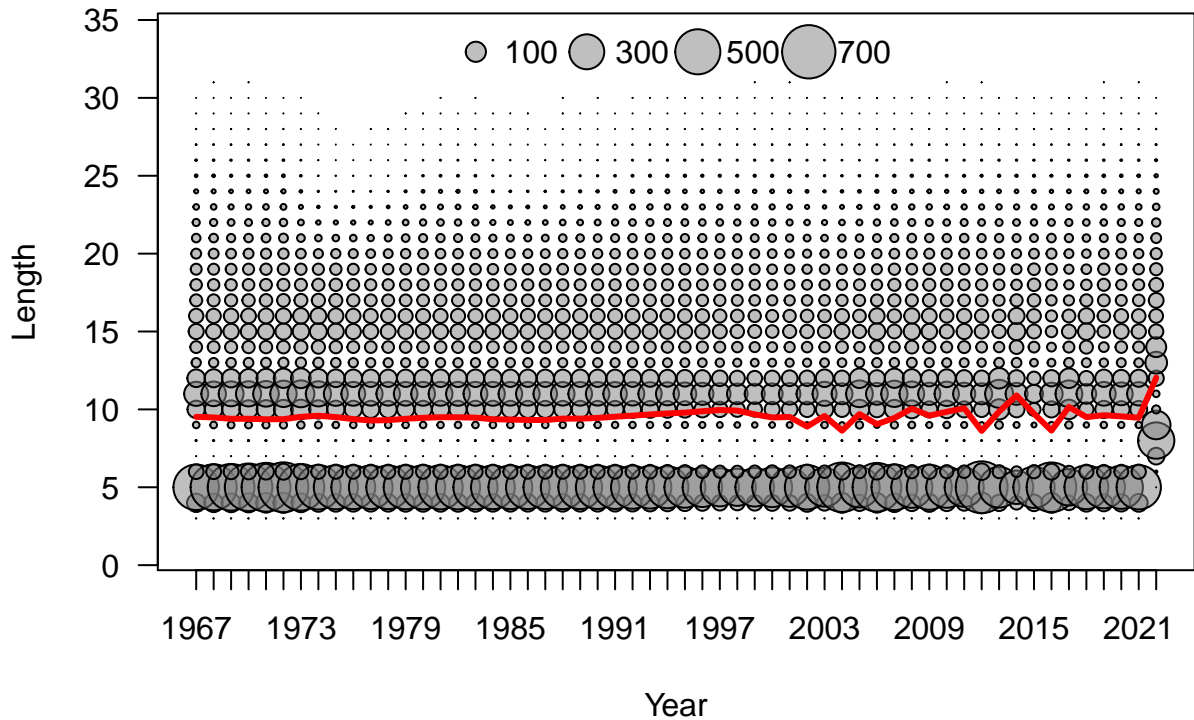


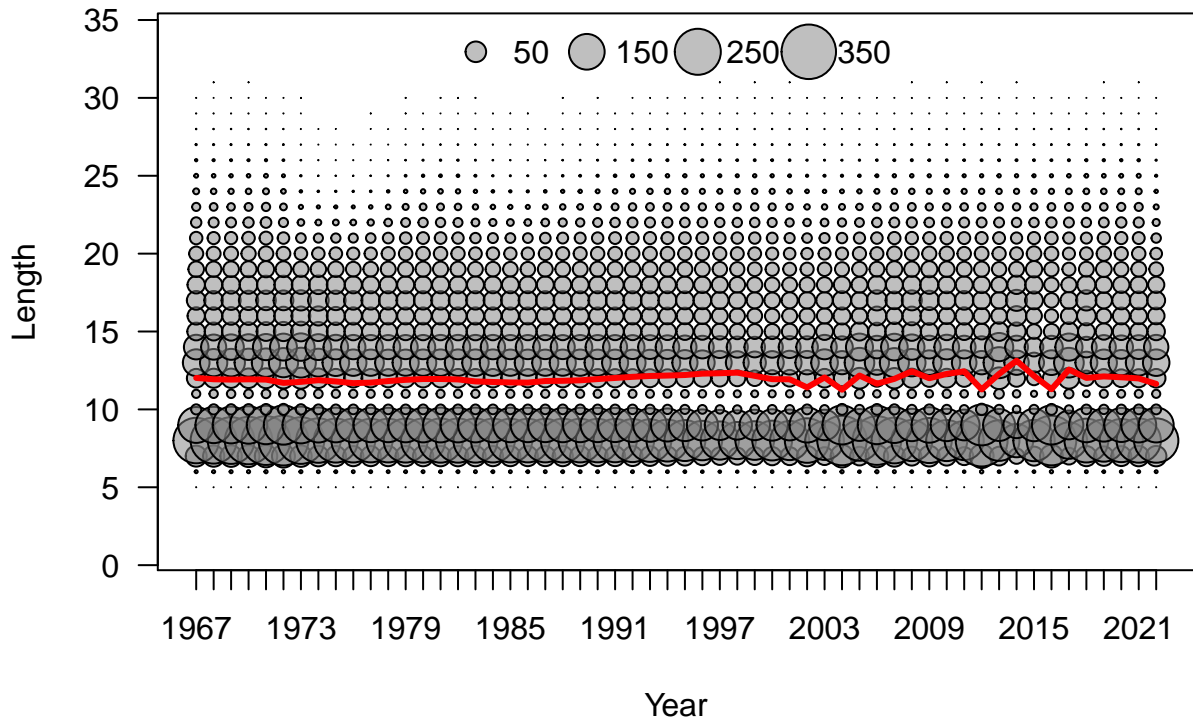




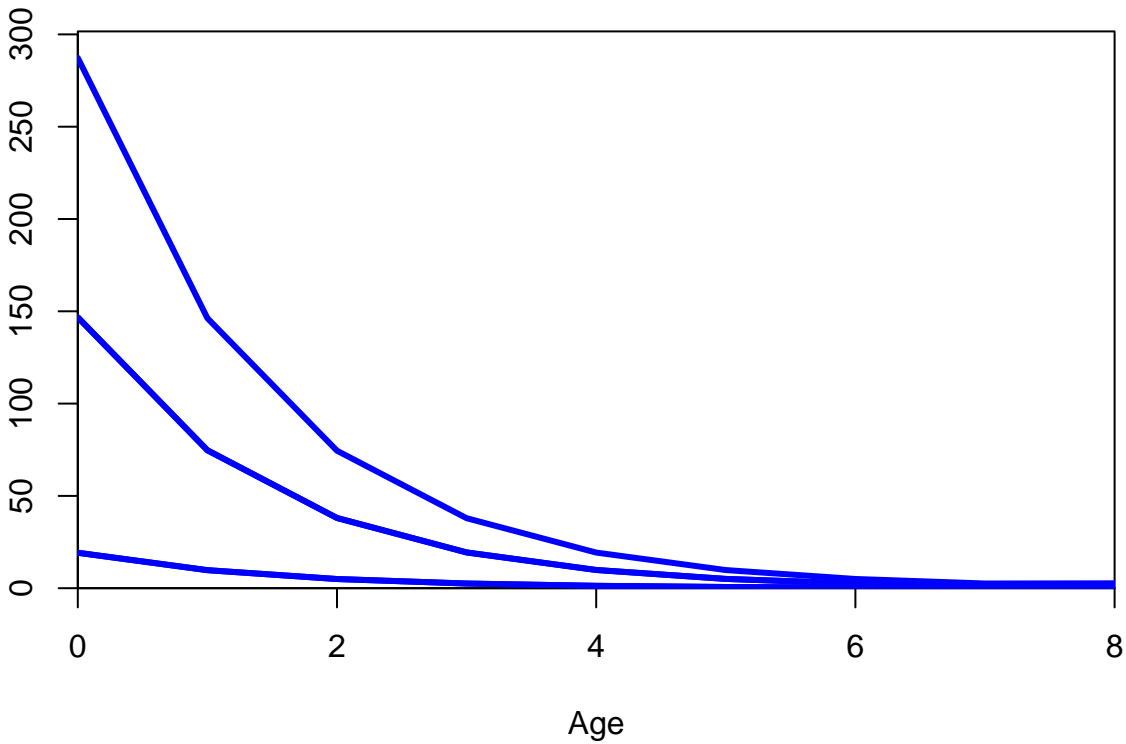
Age



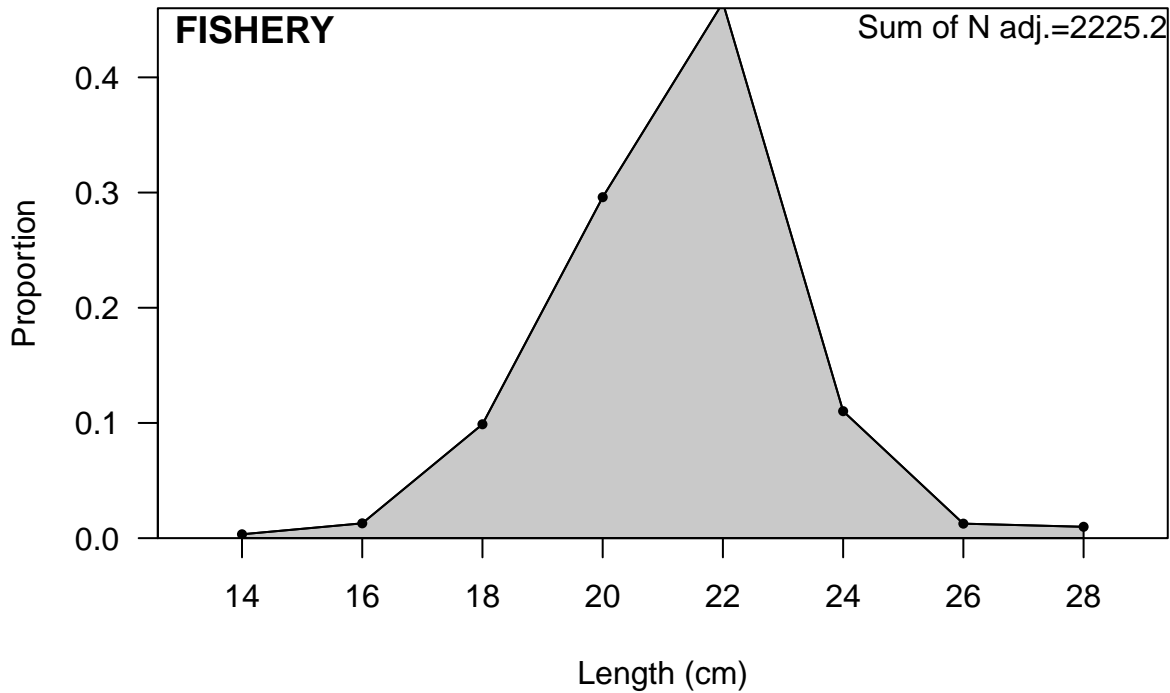


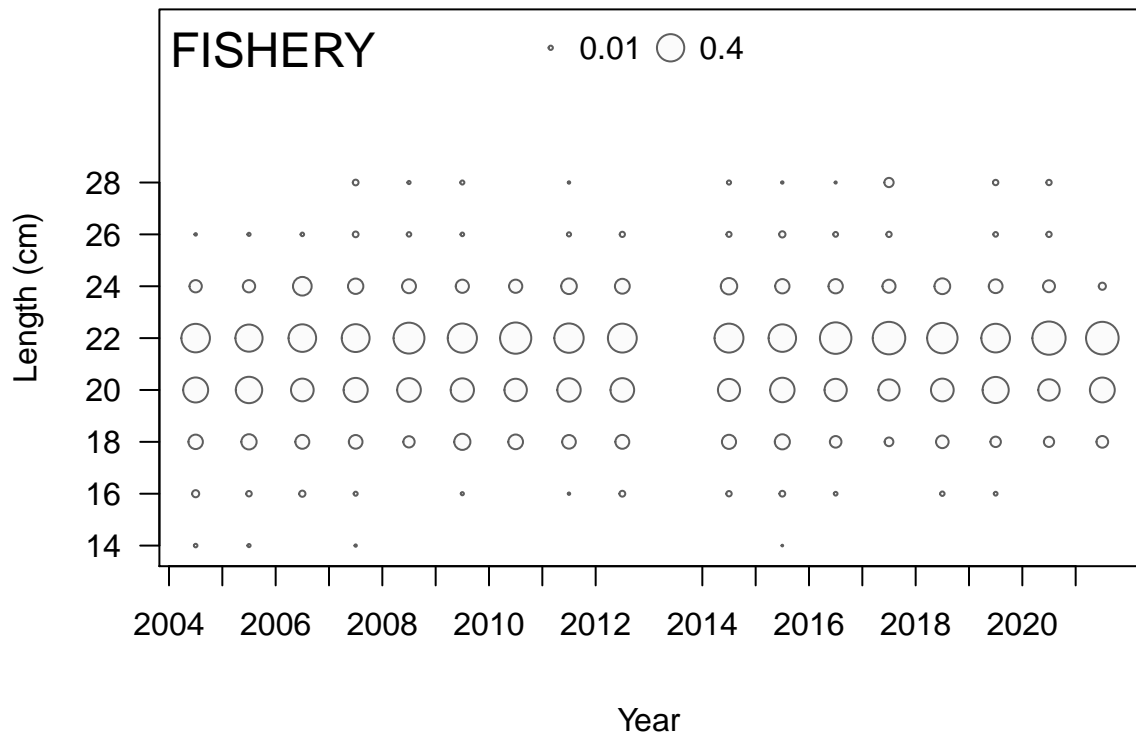


Numbers at age at equilibrium

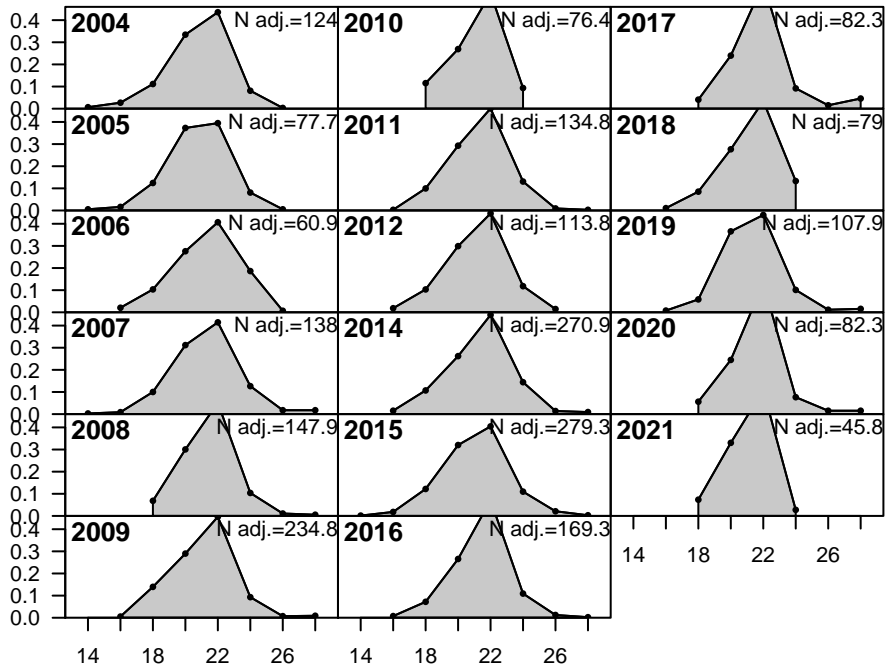




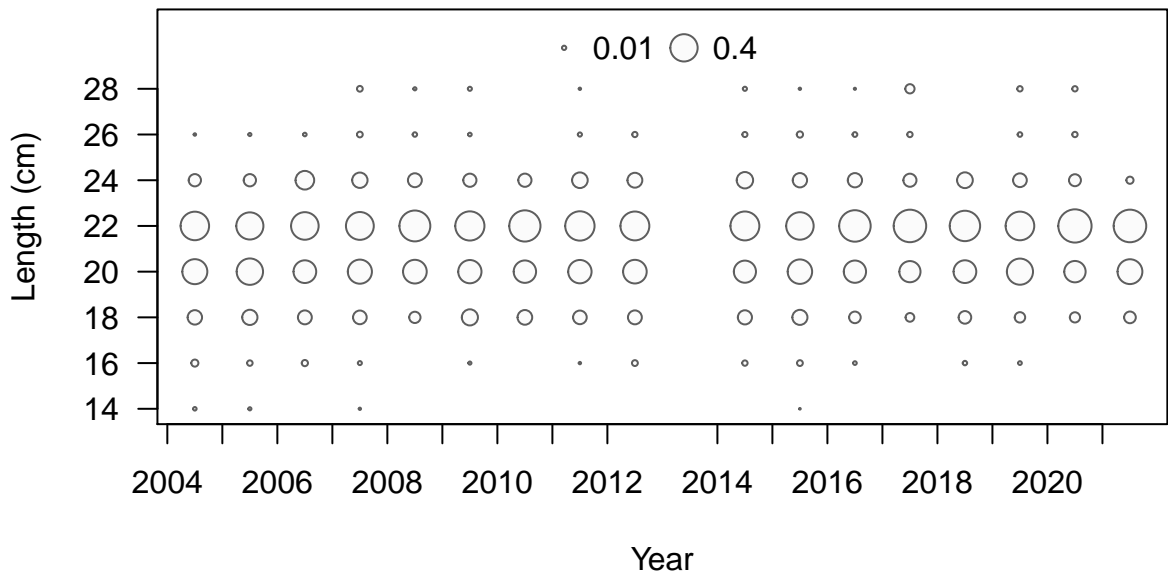




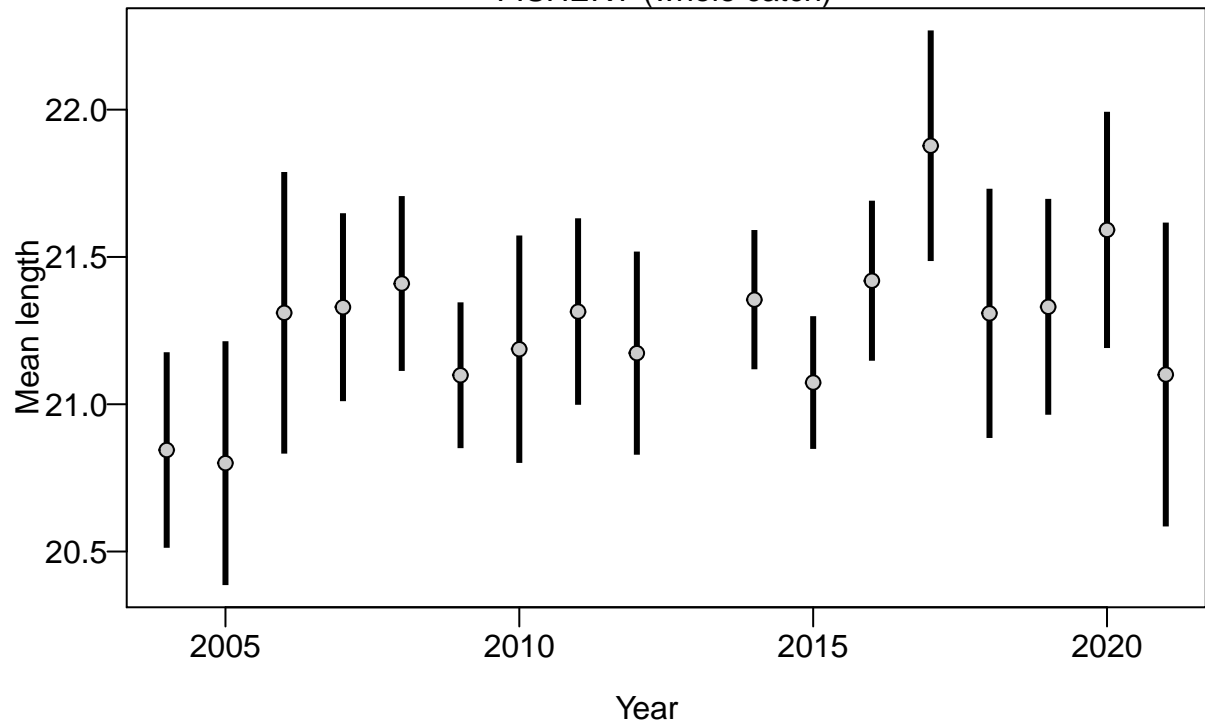
Proportion

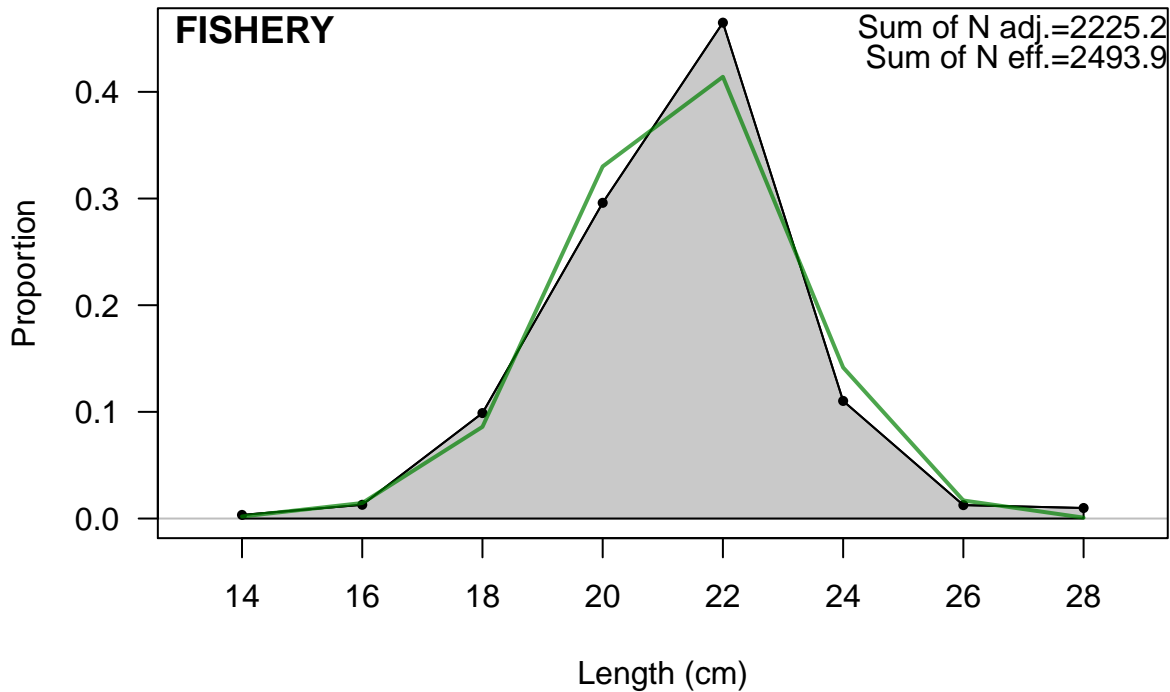


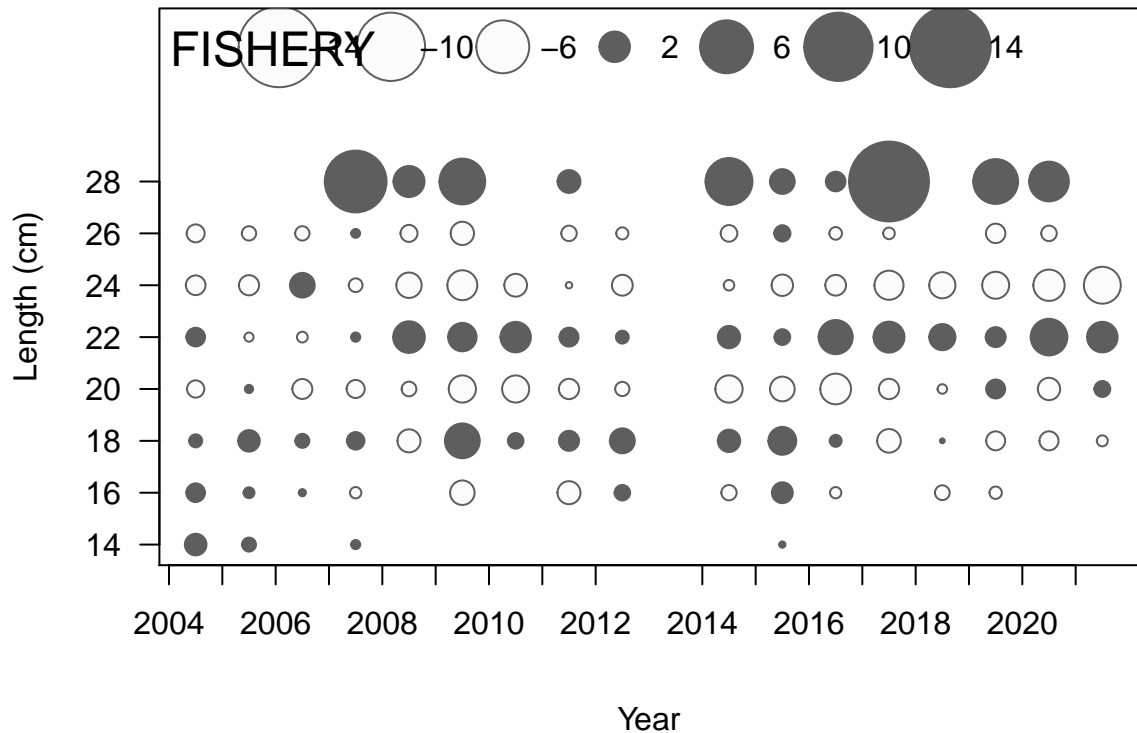
Length (cm)



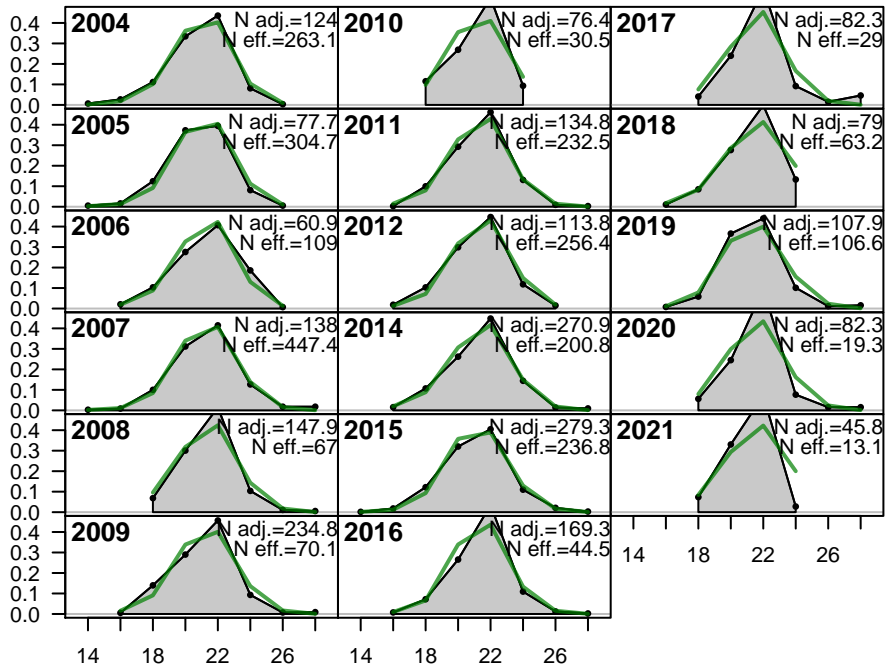
FISHERY (whole catch)







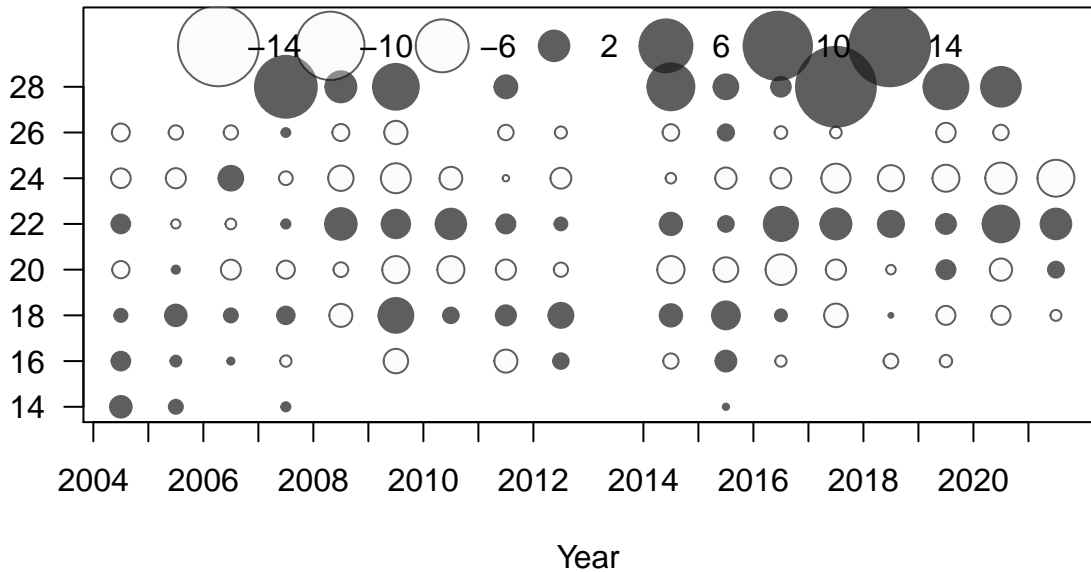
Proportion



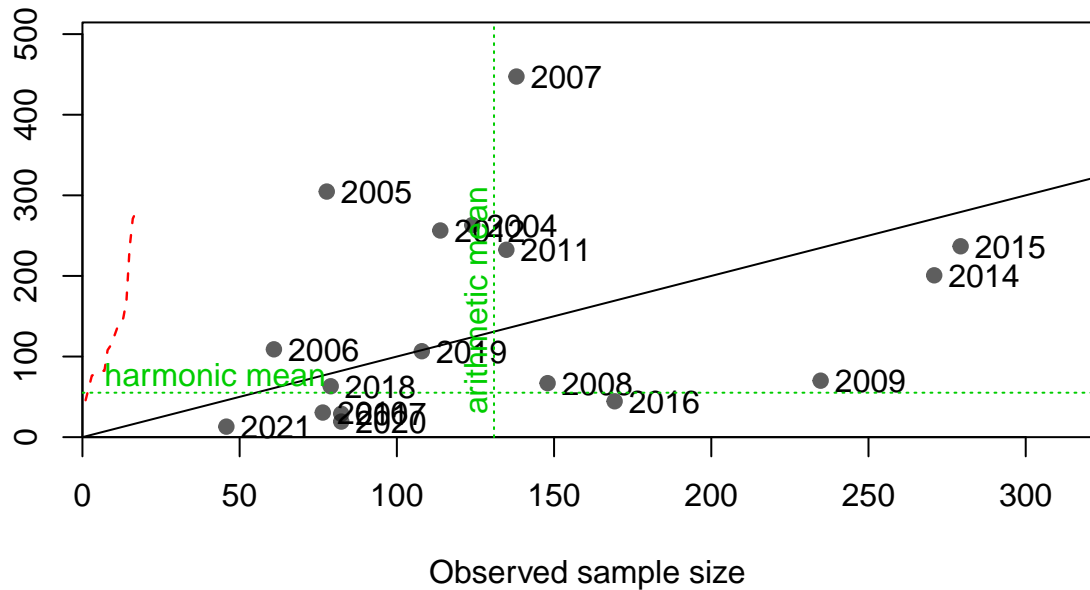
Length (cm)



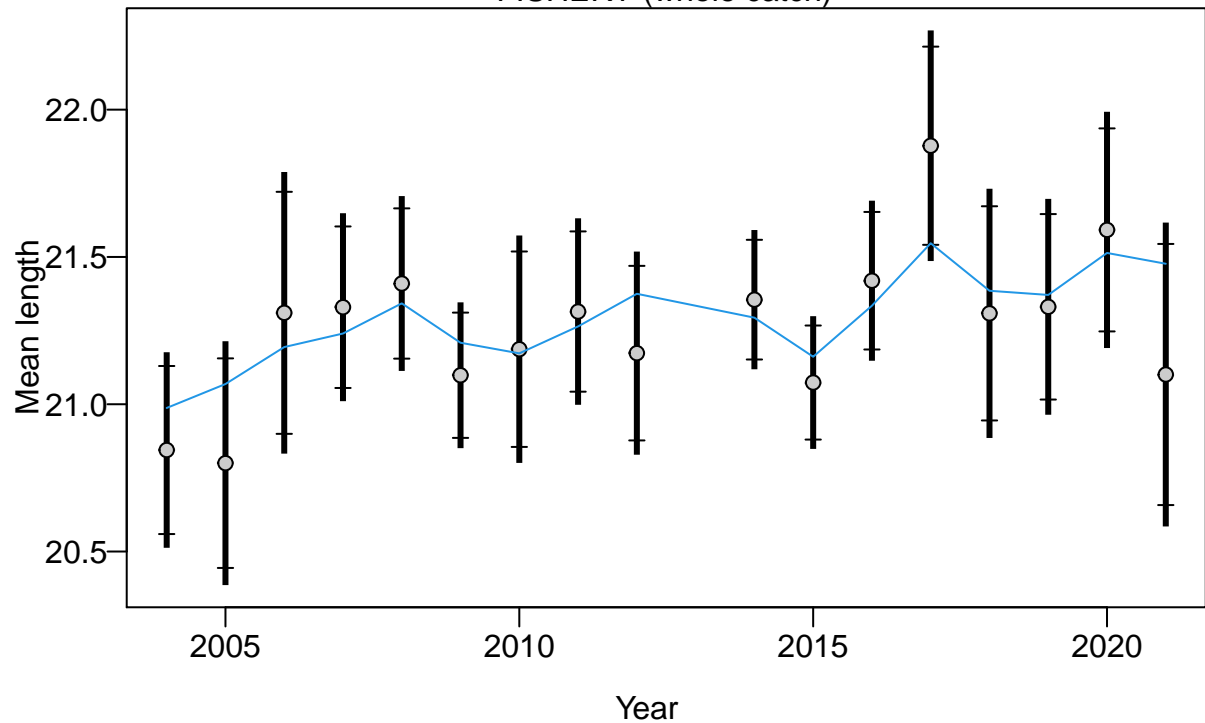
Length (cm)

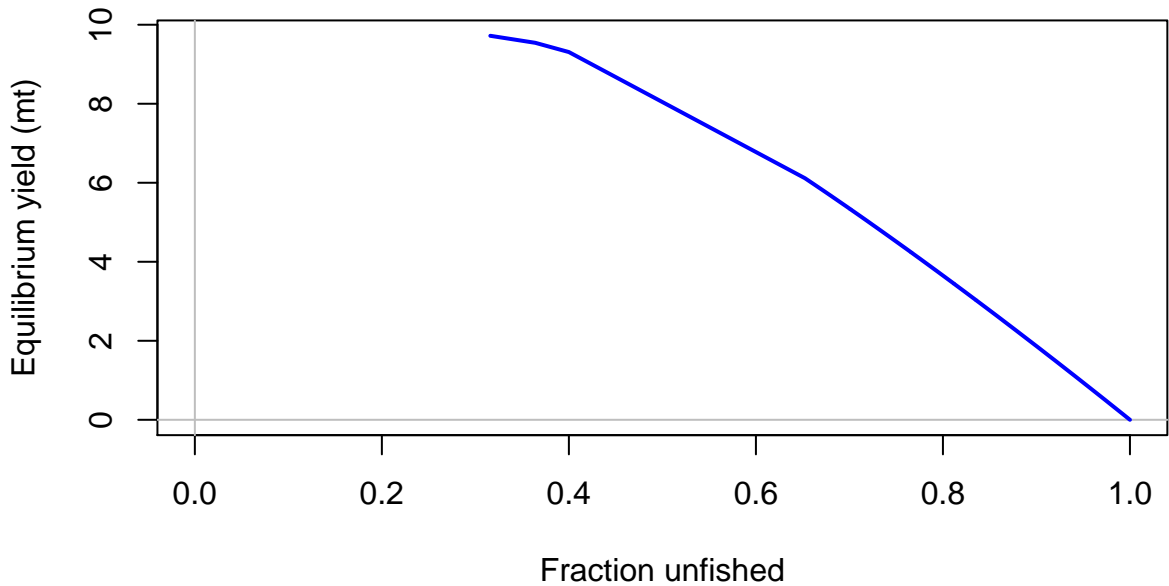


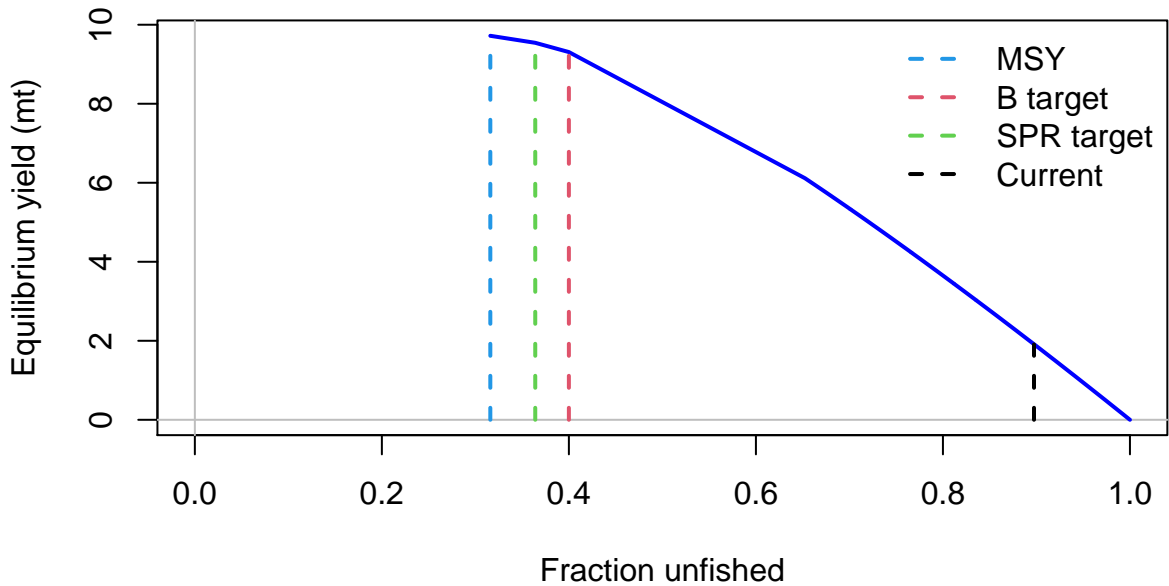
Effective sample size

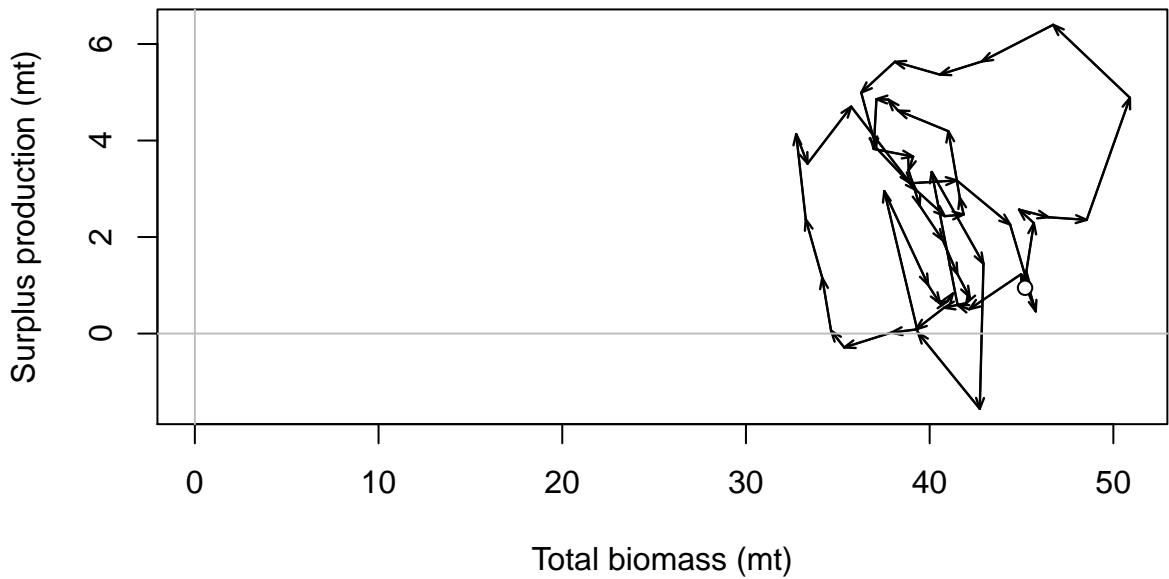


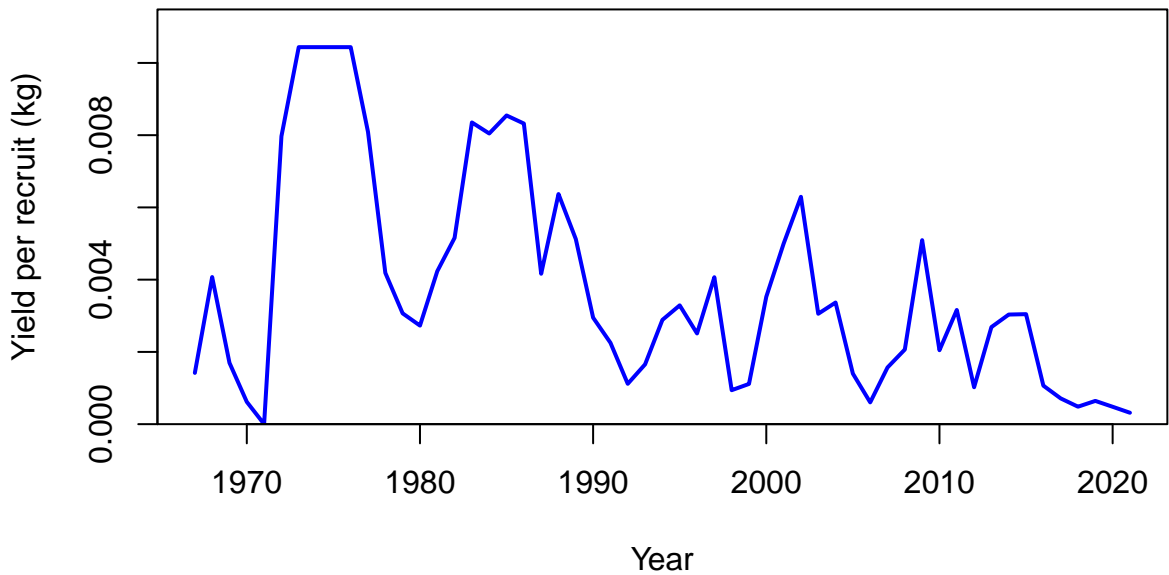
FISHERY (whole catch)

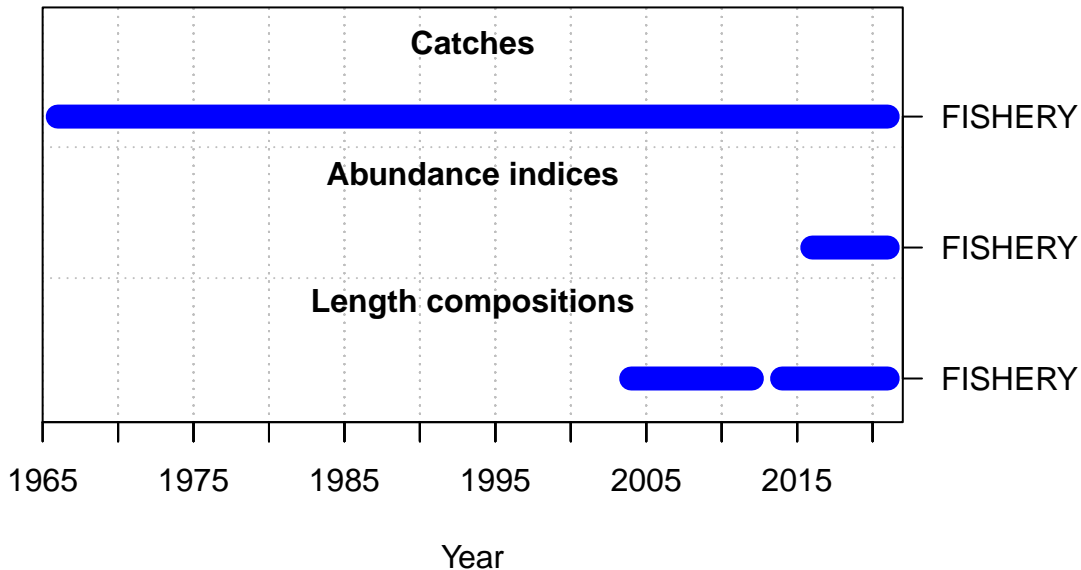




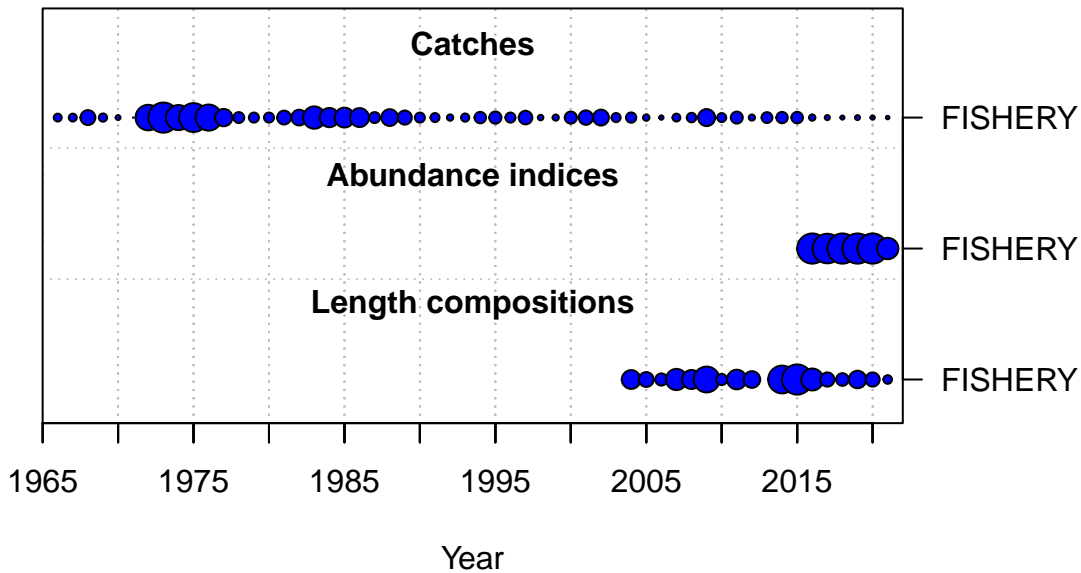






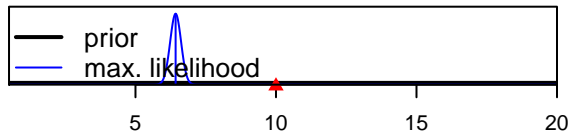




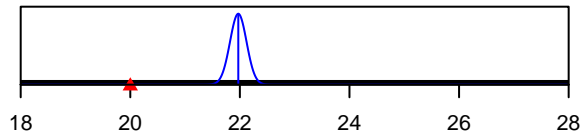


Density

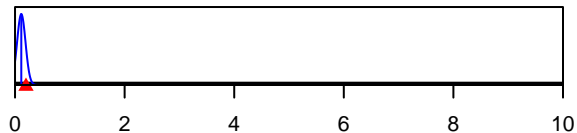
SR\_LN(R0)



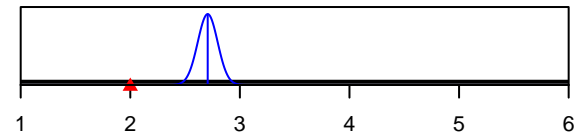
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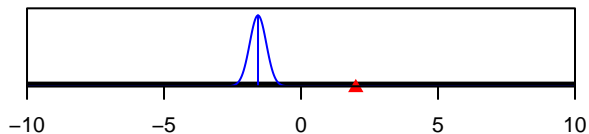
InitF\_seas\_1\_flt\_1FISHERY



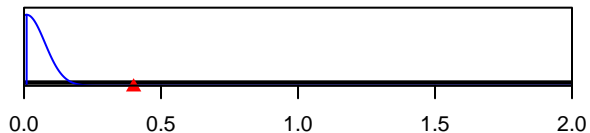
Size\_95%width\_FISHERY(1)



LnQ\_base\_FISHERY(1)



Q\_extraSD\_FISHERY(1)



Parameter value