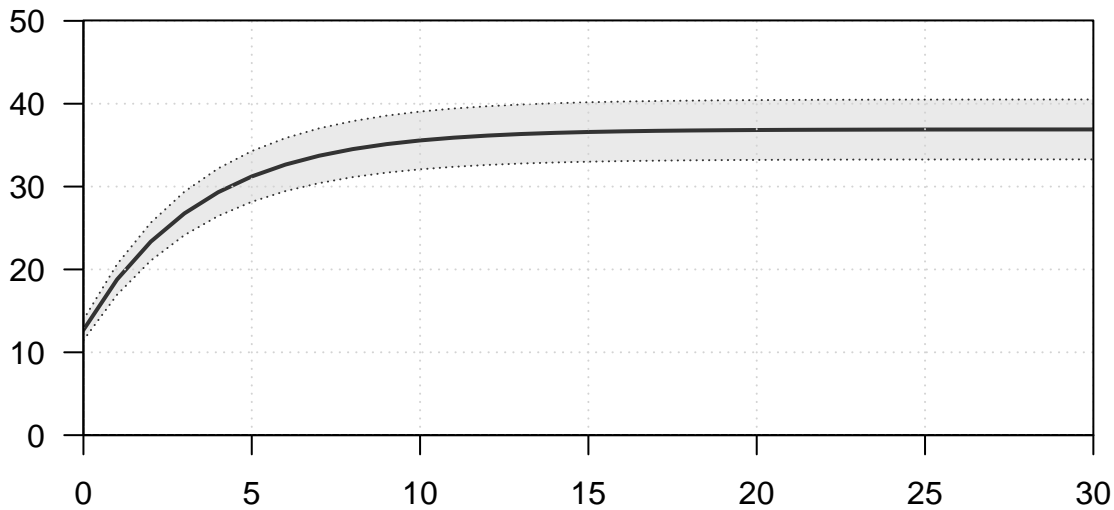
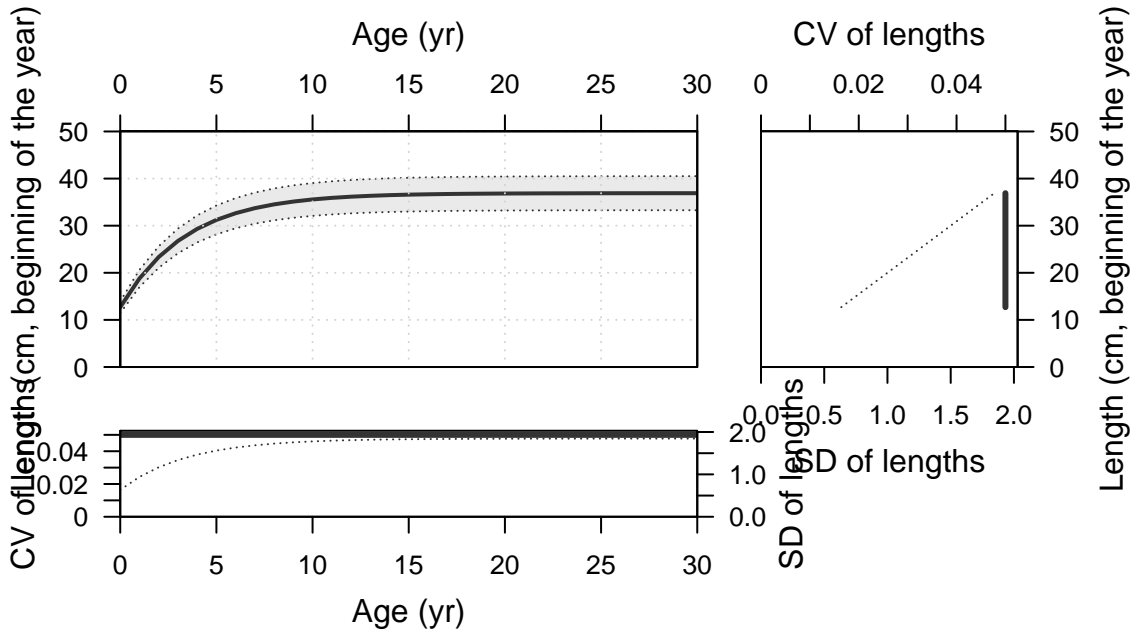


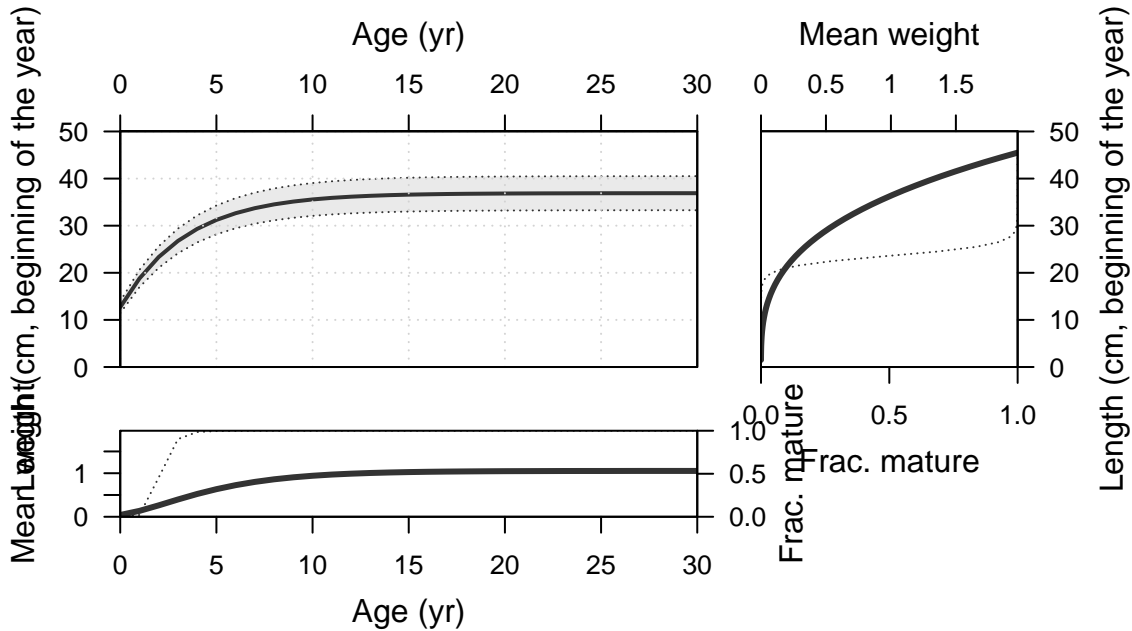
Plots created using the 'r4ss' package in R  
Stock Synthesis version: 3.30.19.0  
StartTime: Thu Jul 14 13:22:03 2022  
Data\_File: data.ss  
Control\_File: control.ss

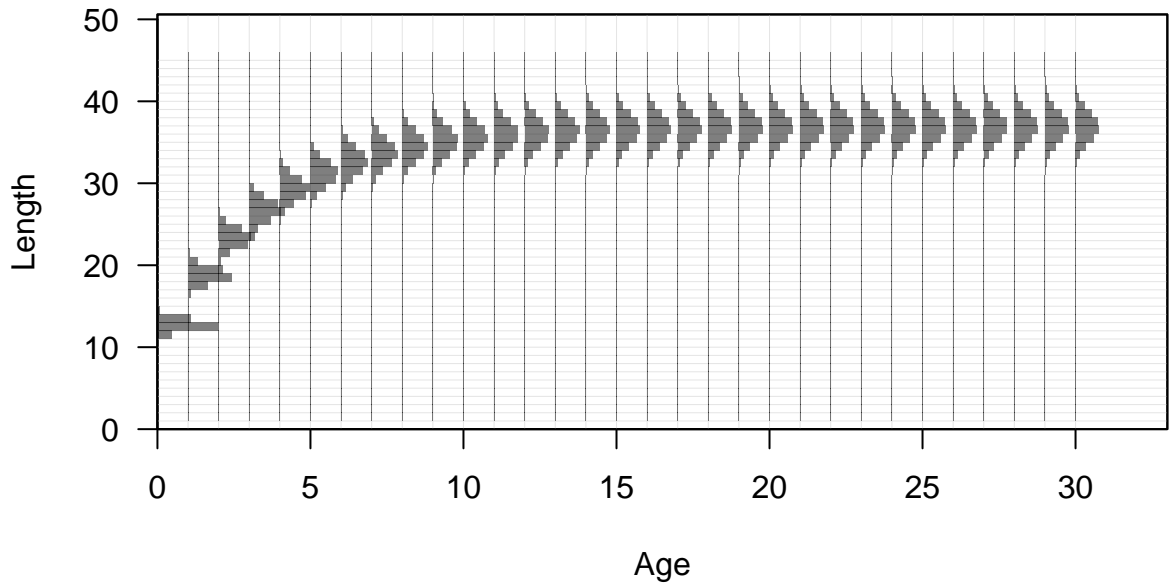
Length (cm, beginning of the year)

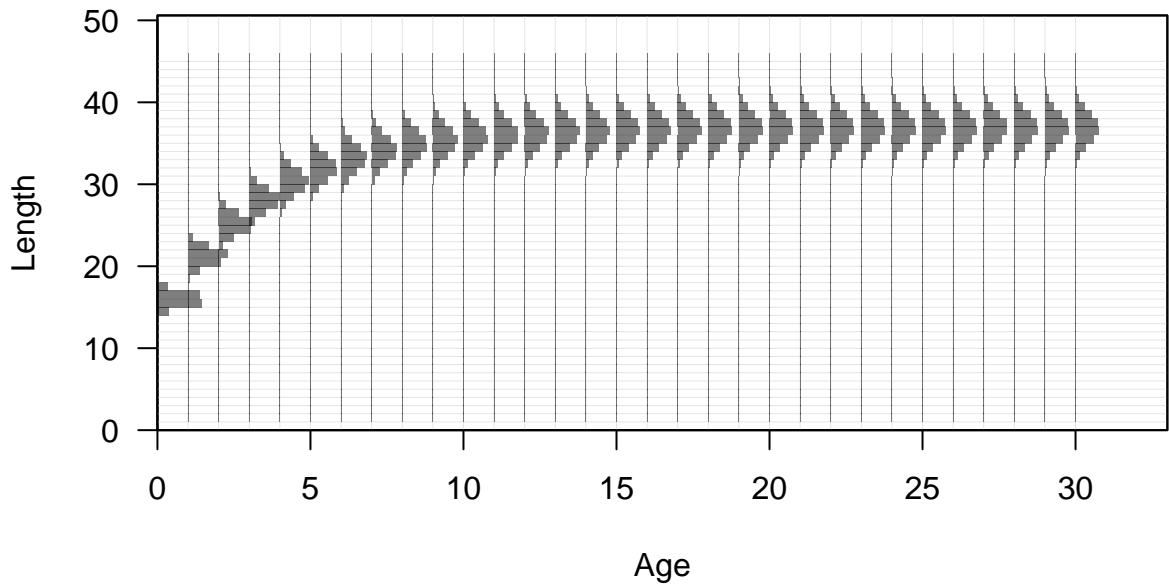


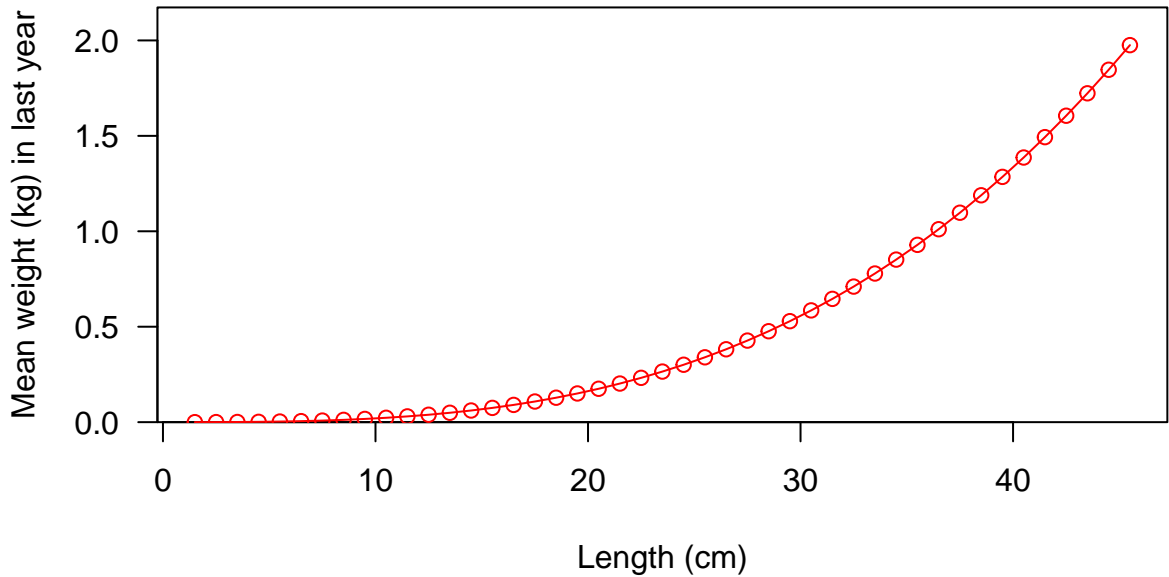
Age (yr)

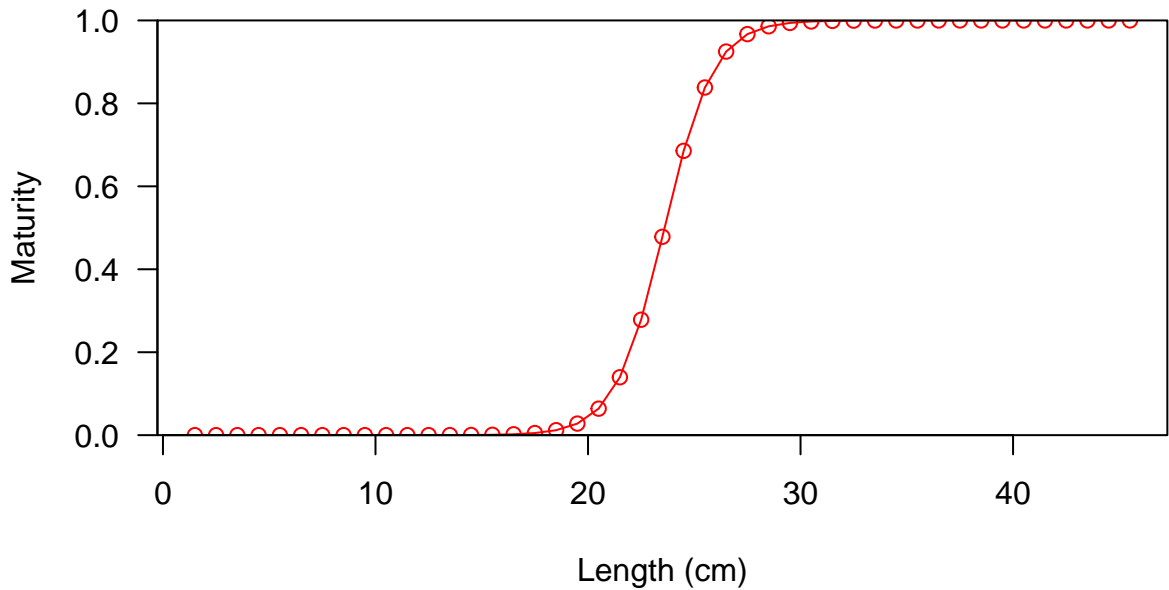




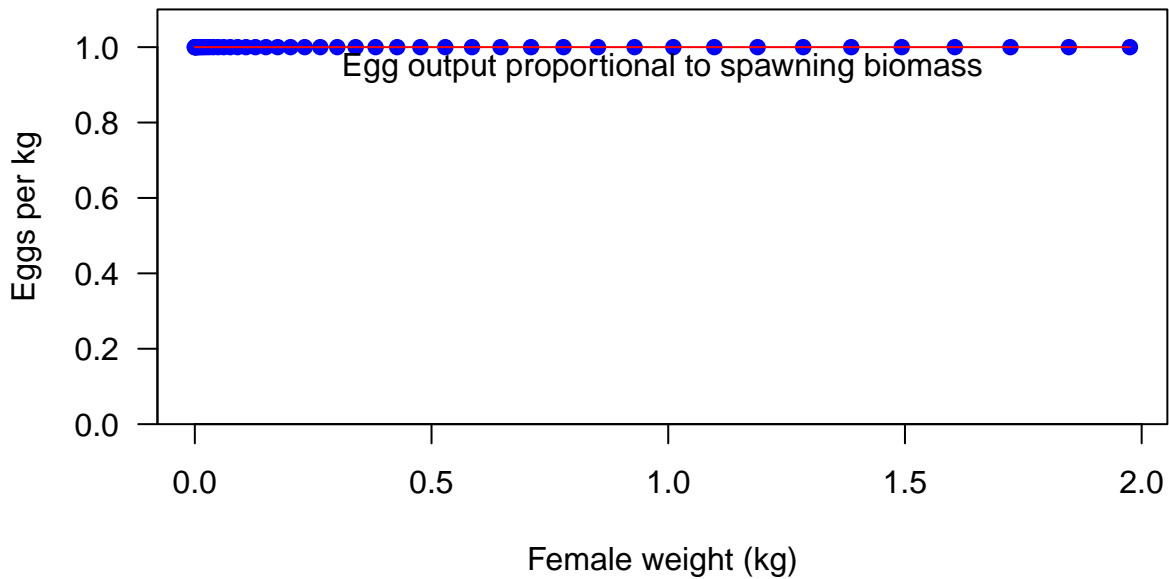


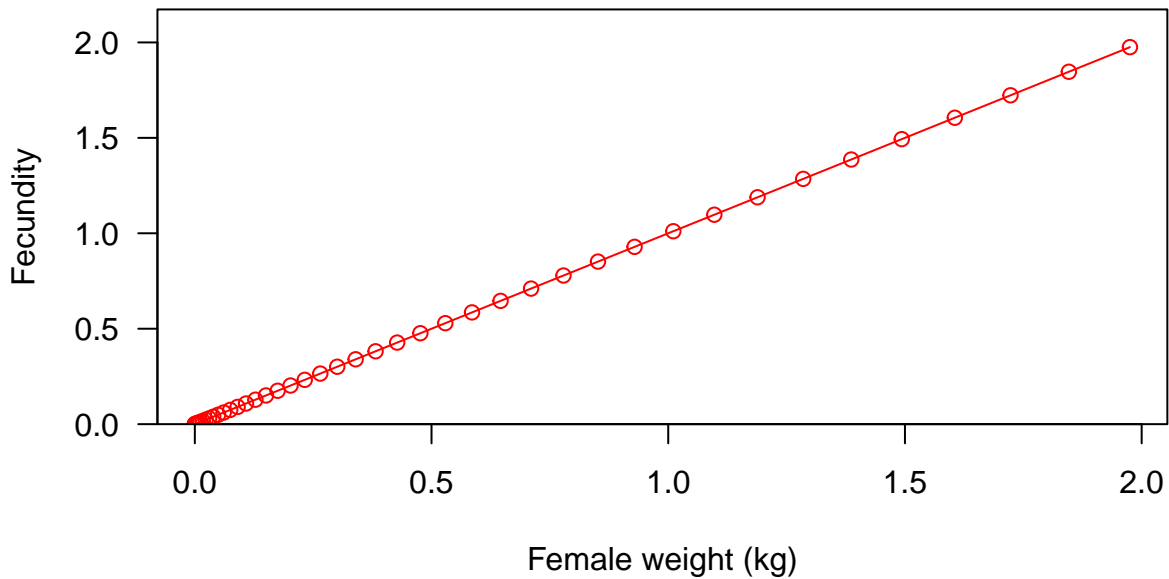


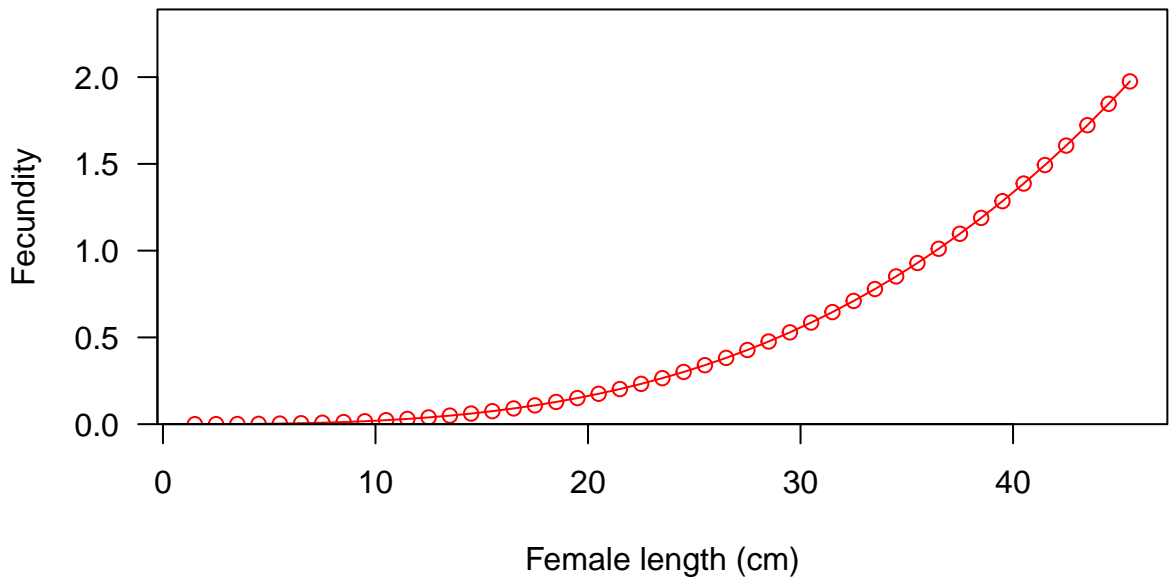


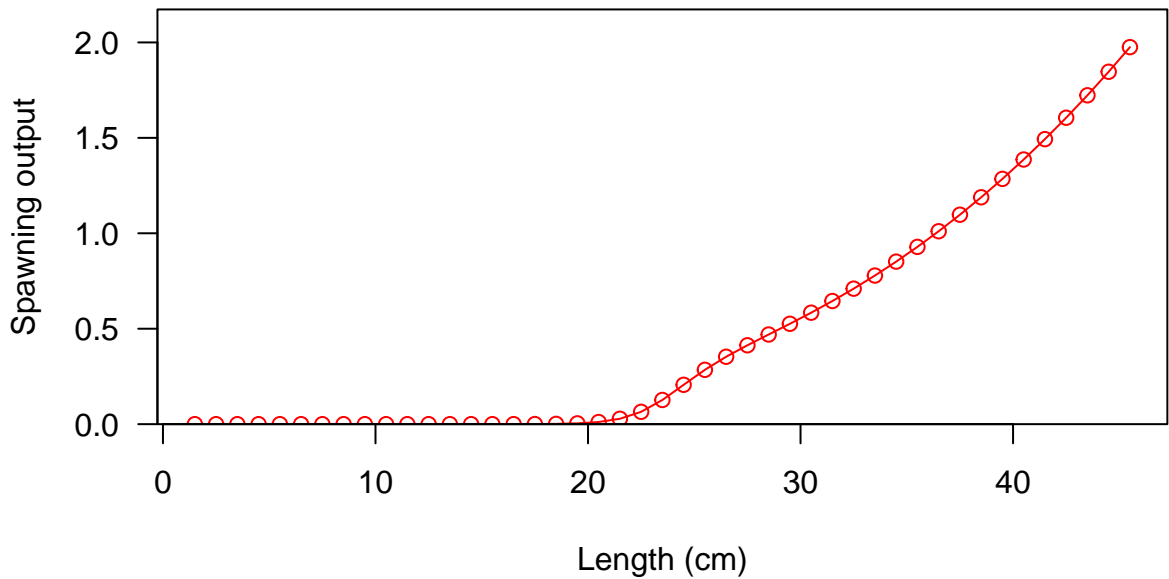


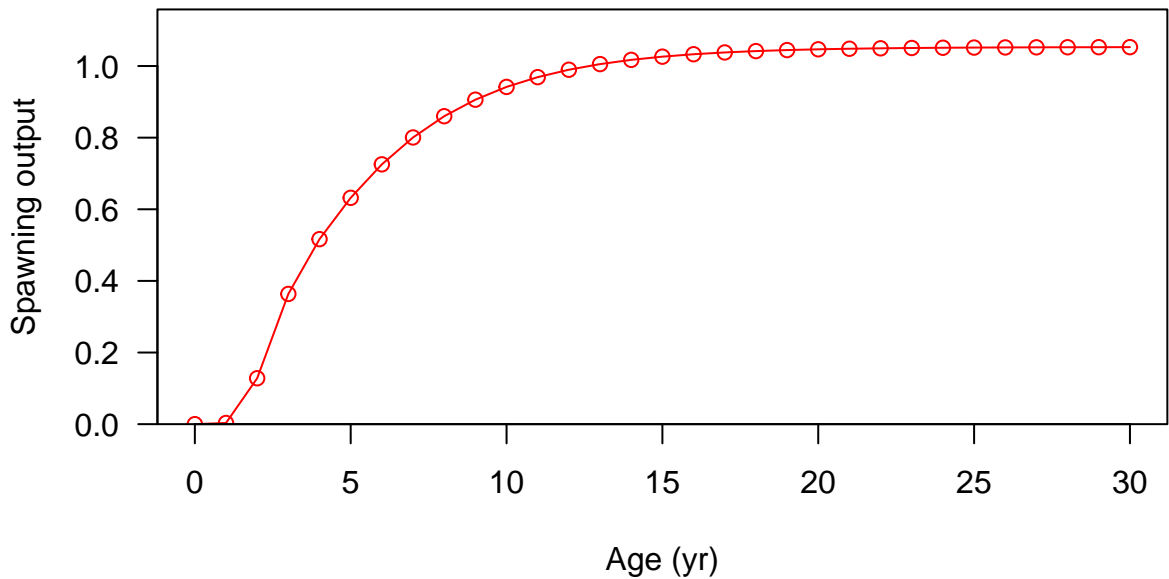




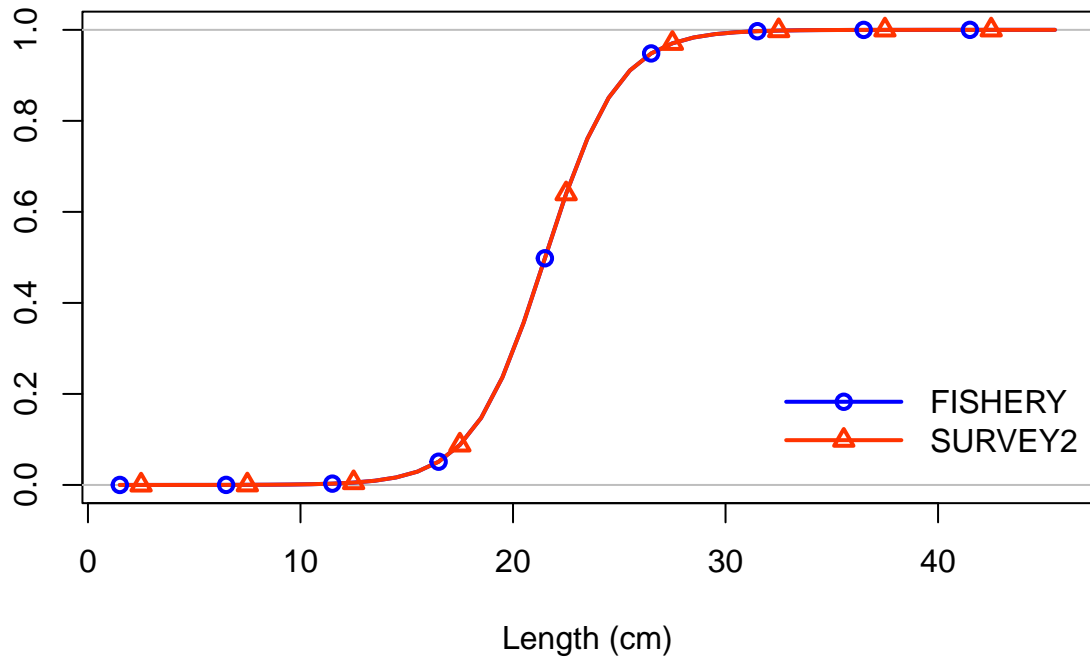




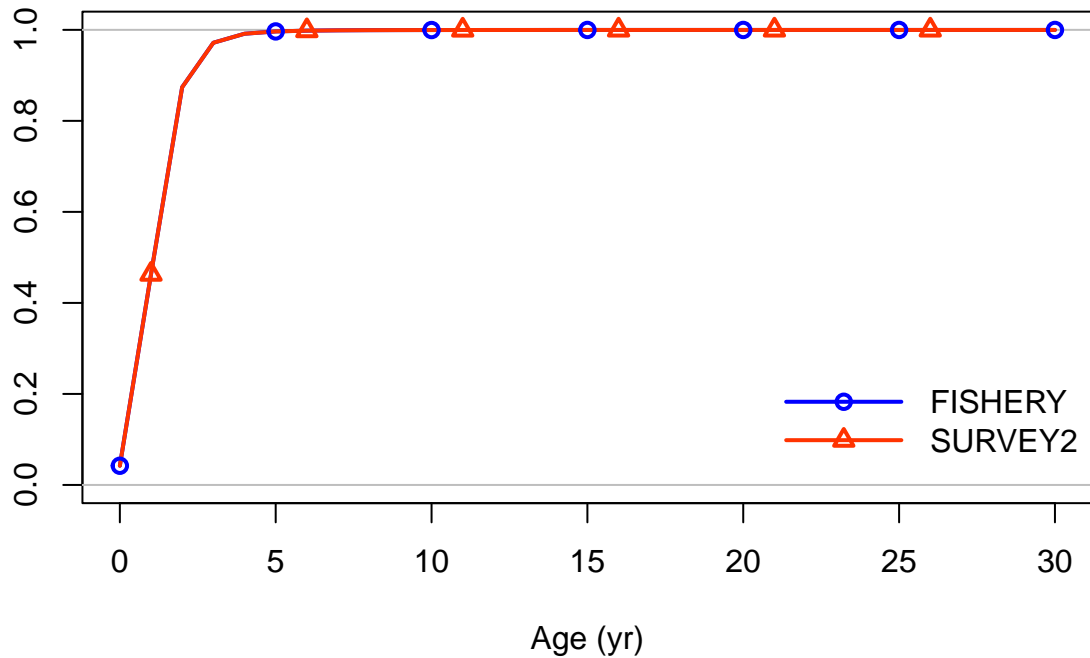




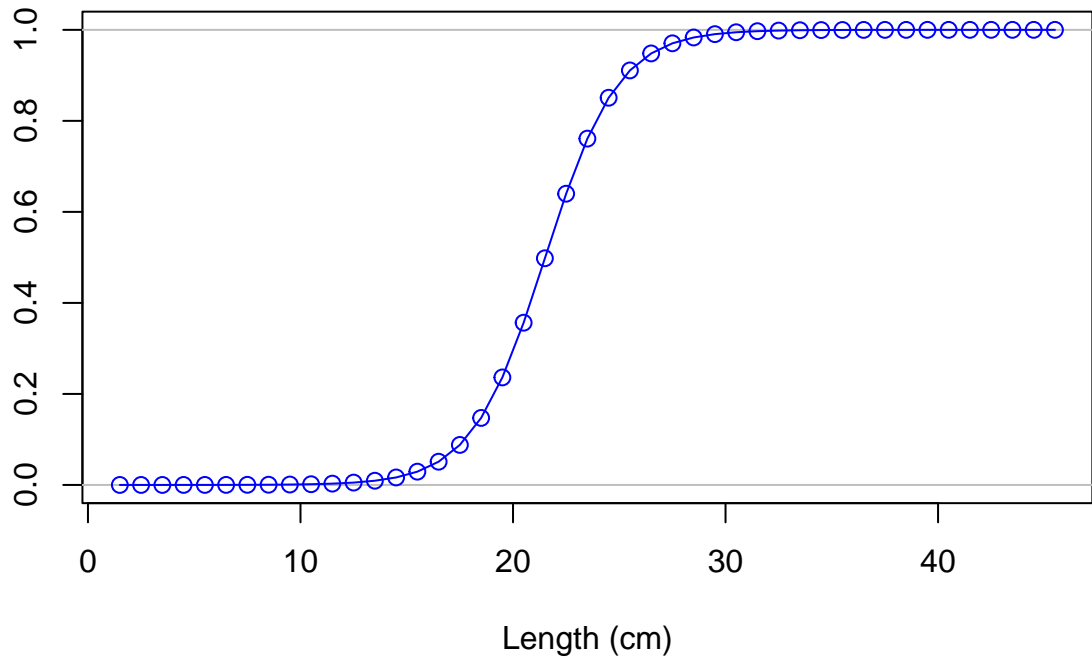
Selectivity



Selectivity

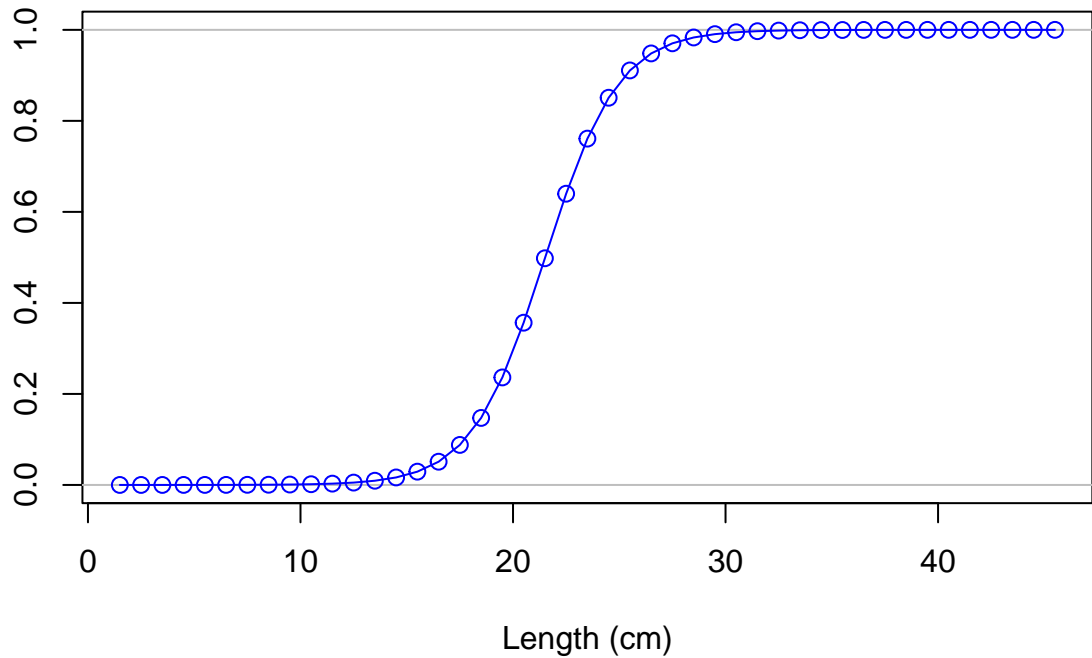


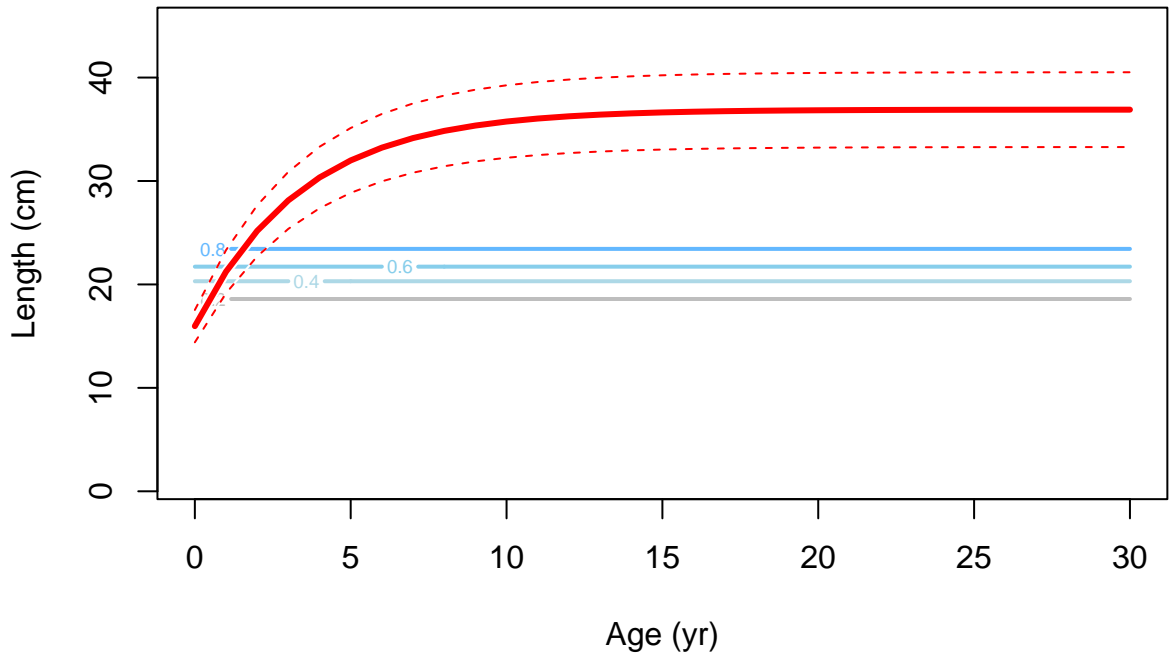
Selectivity

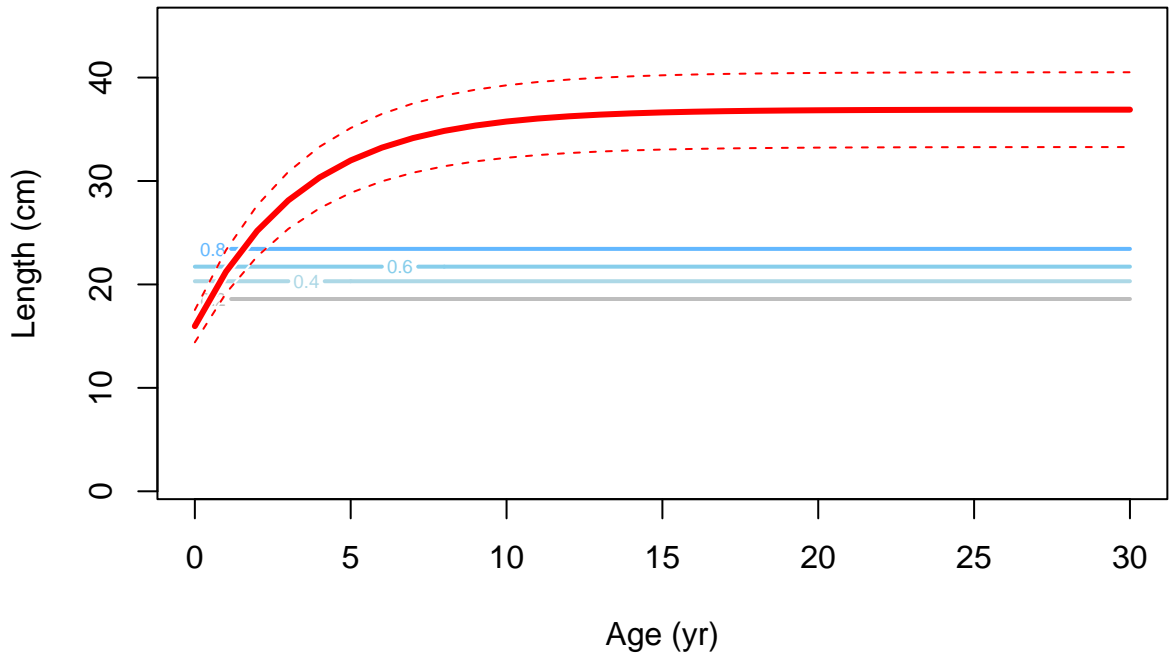


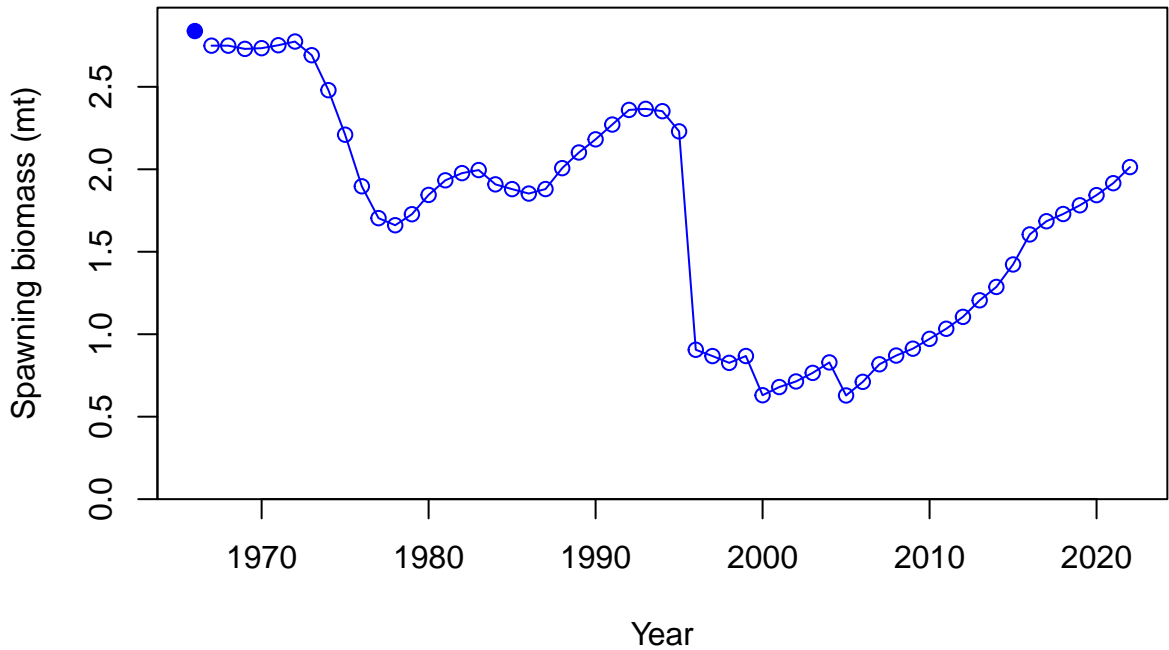


Selectivity

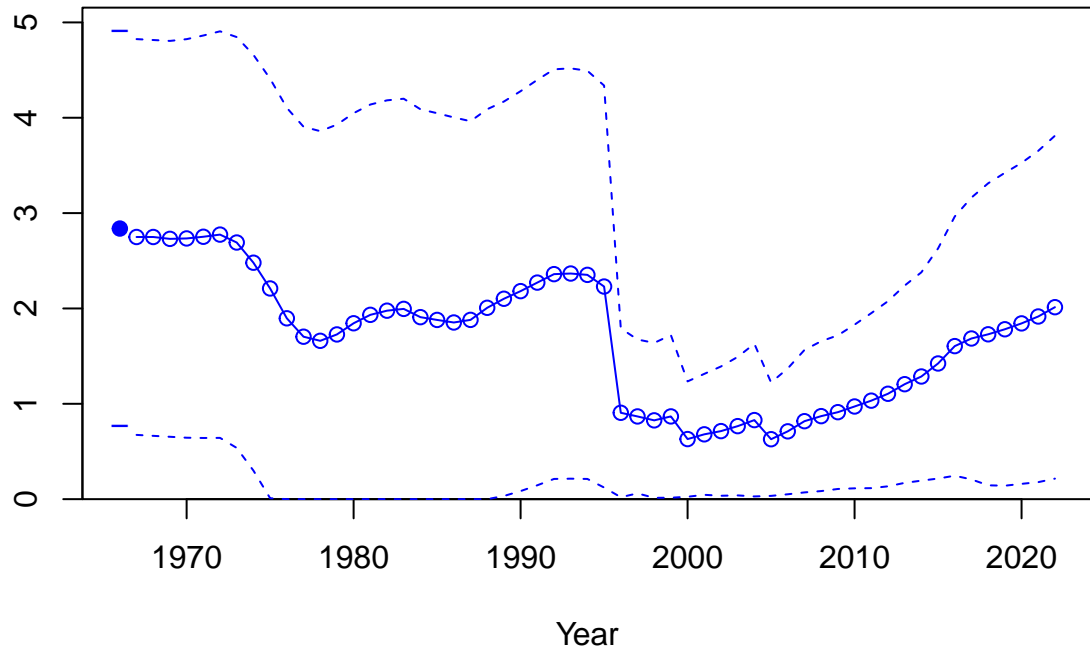




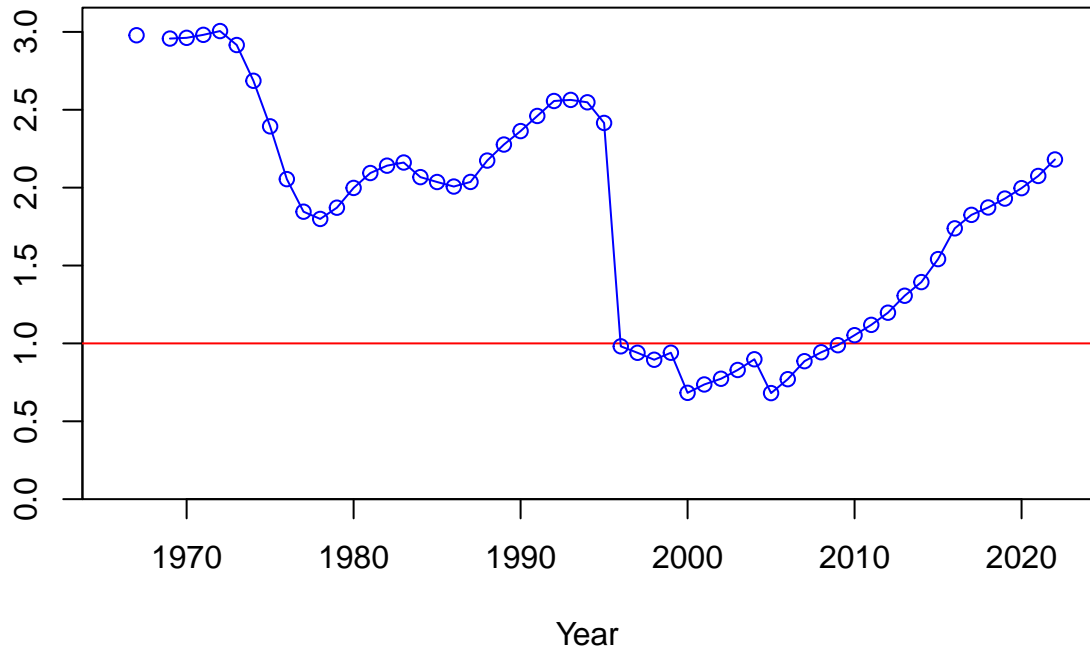




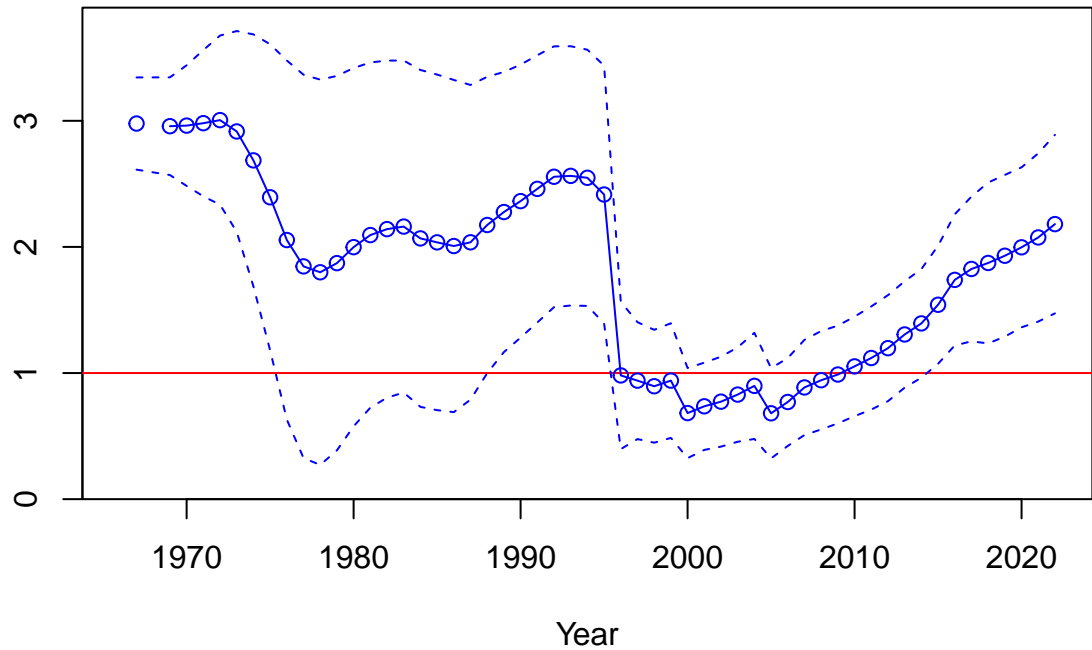
Spawning biomass (mt)

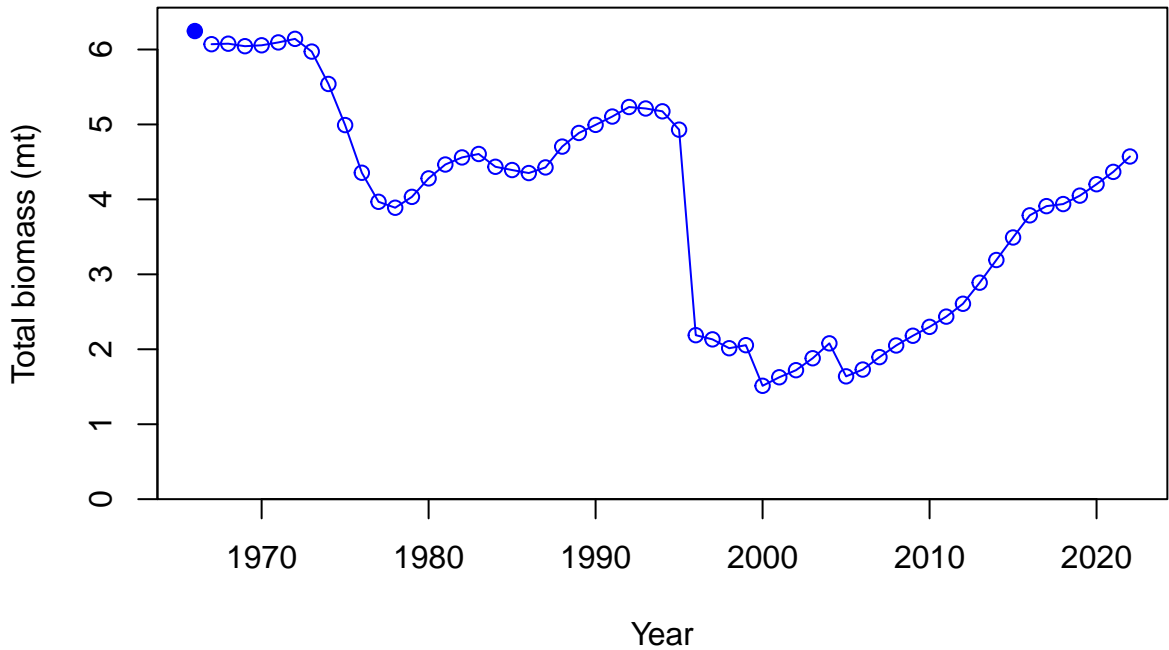


Relative spawning biomass:  $B/B_{MSY}$



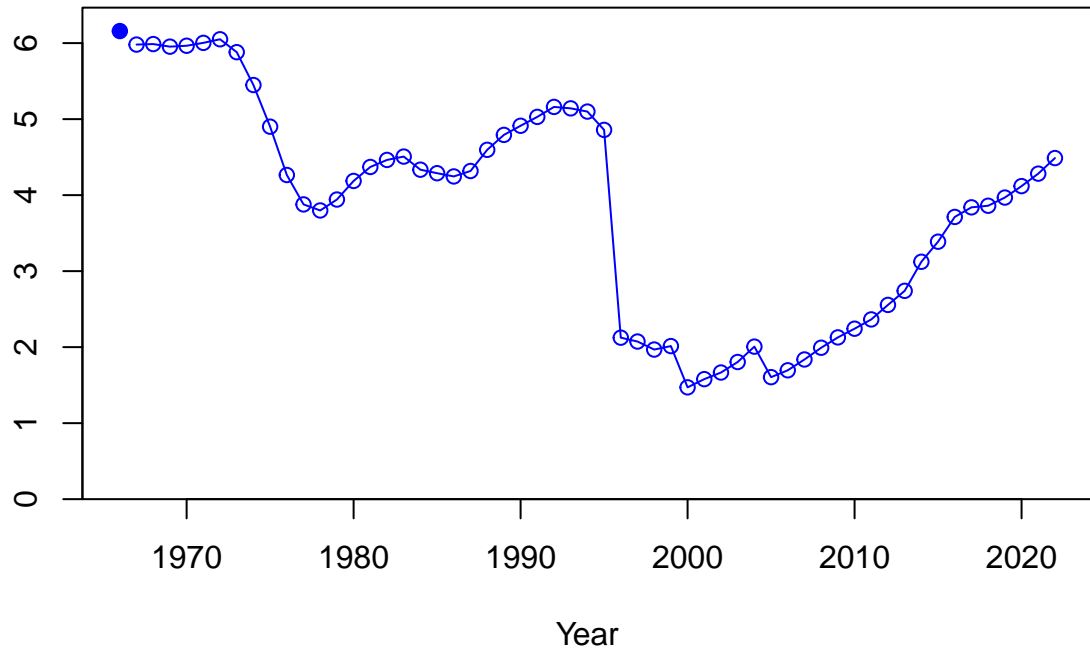
Relative spawning biomass:  $B/B_{MSY}$



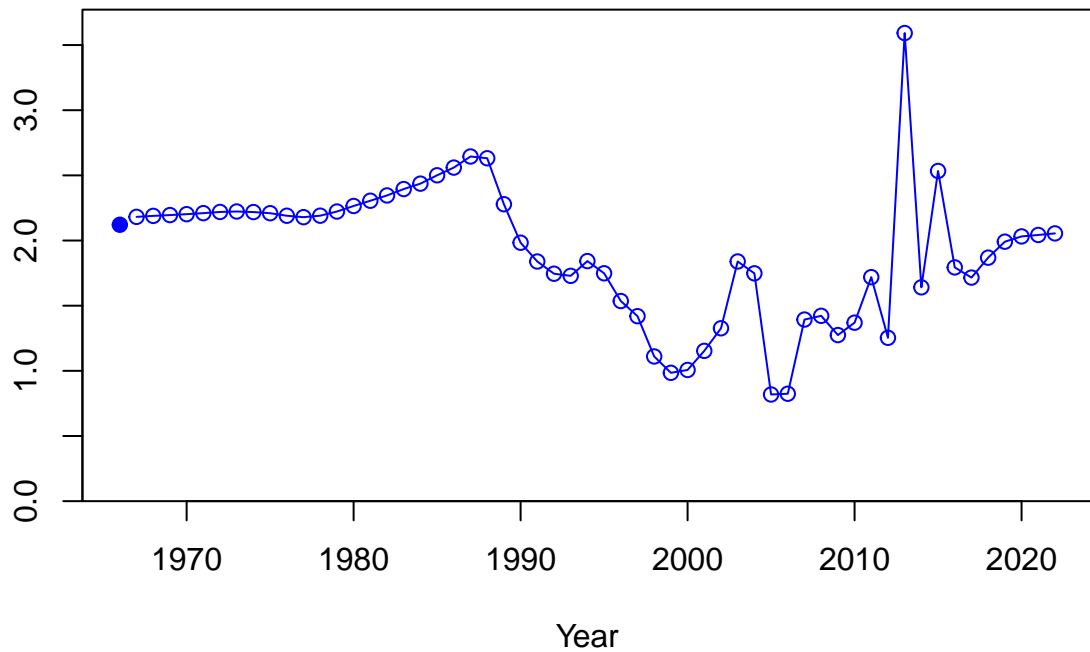


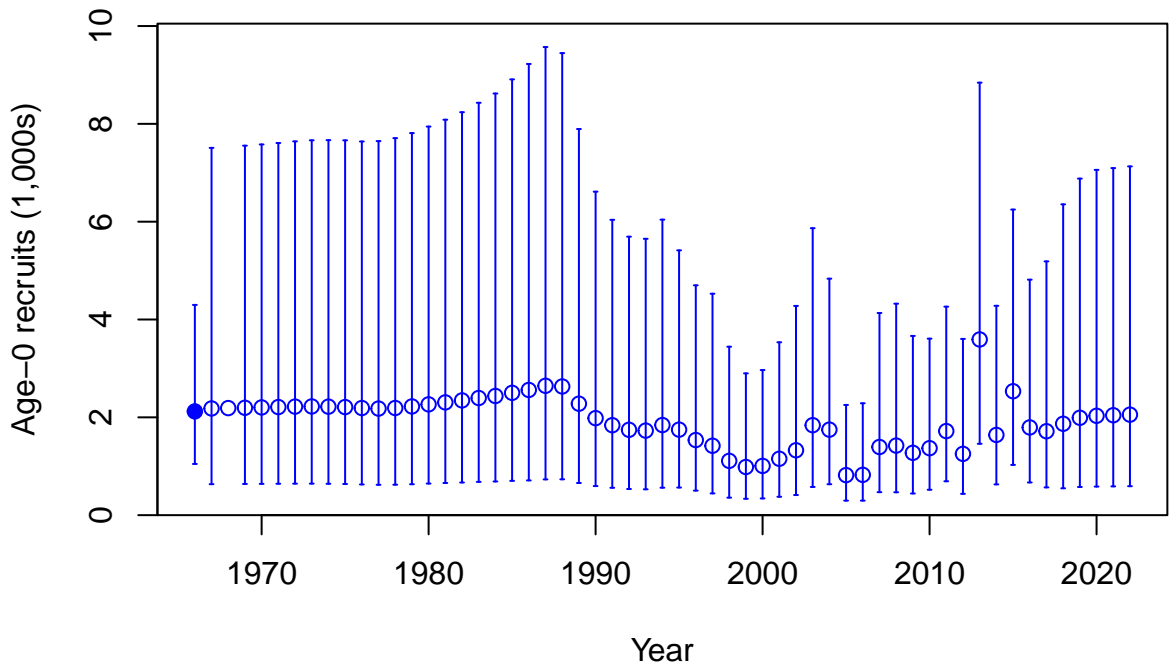


Summary biomass (mt)

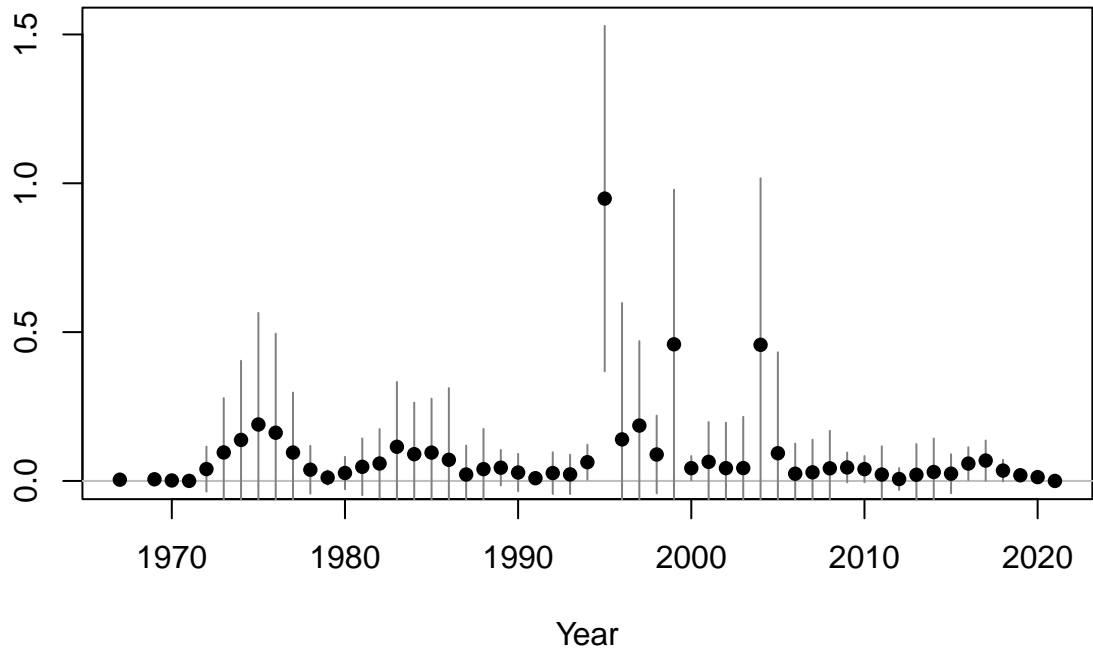


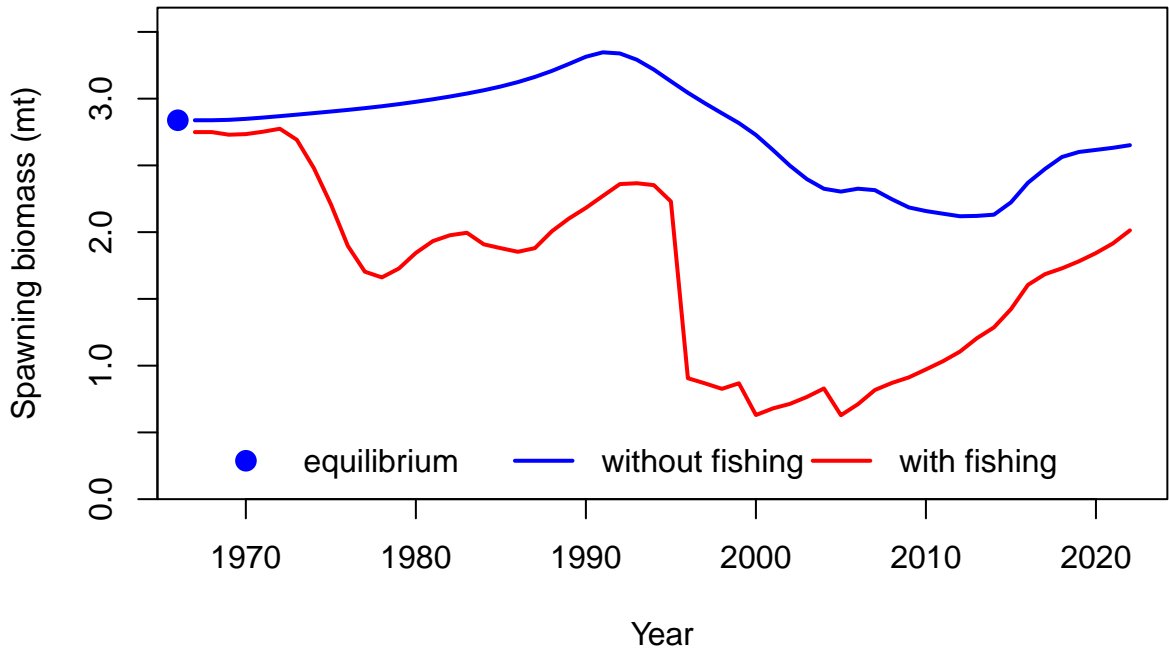
Age-0 recruits (1,000s)



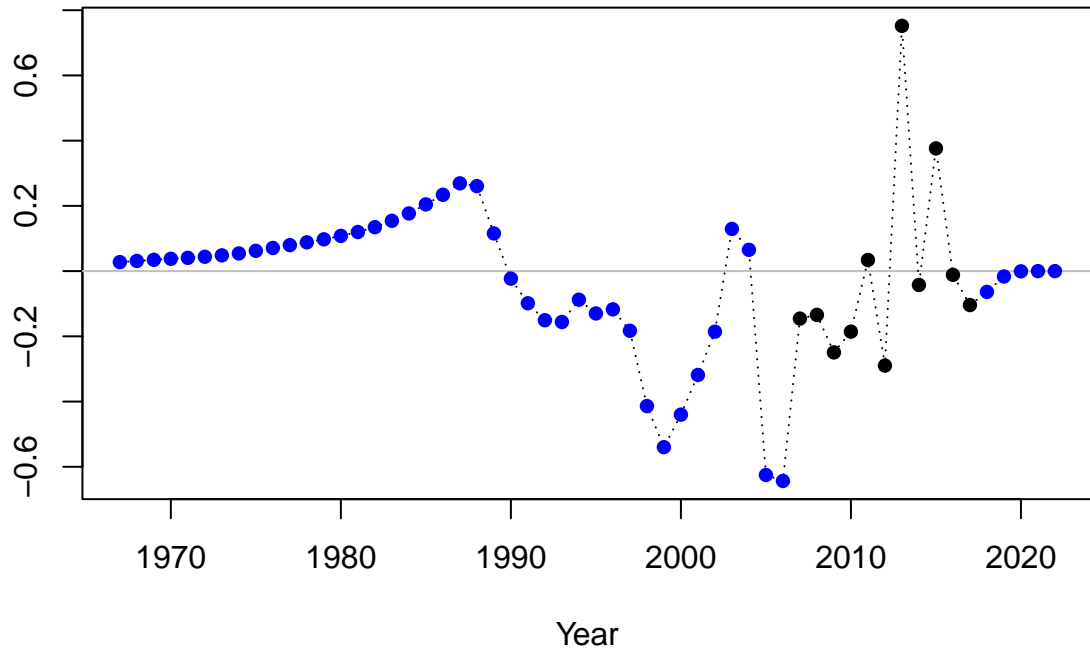


Summary Fishing Mortality

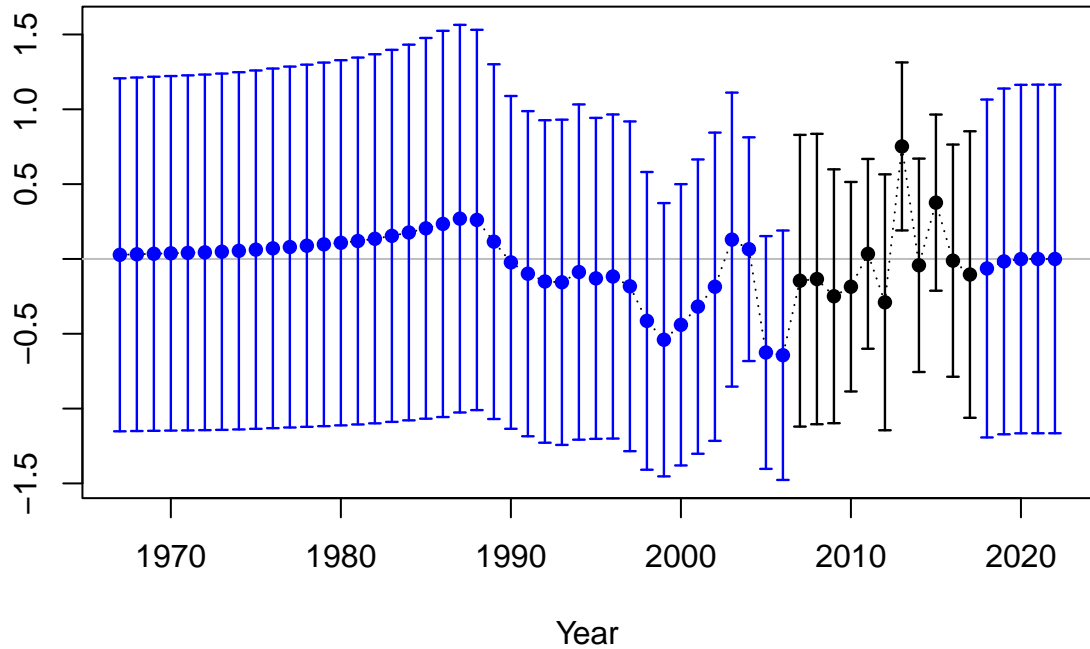




Log recruitment deviation

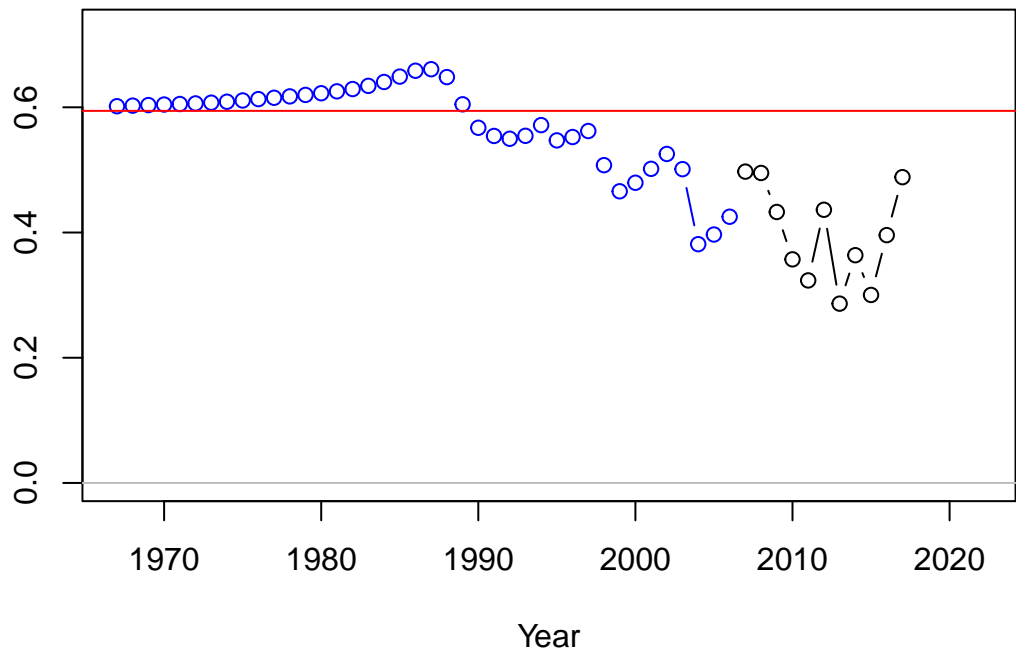


Log recruitment deviation

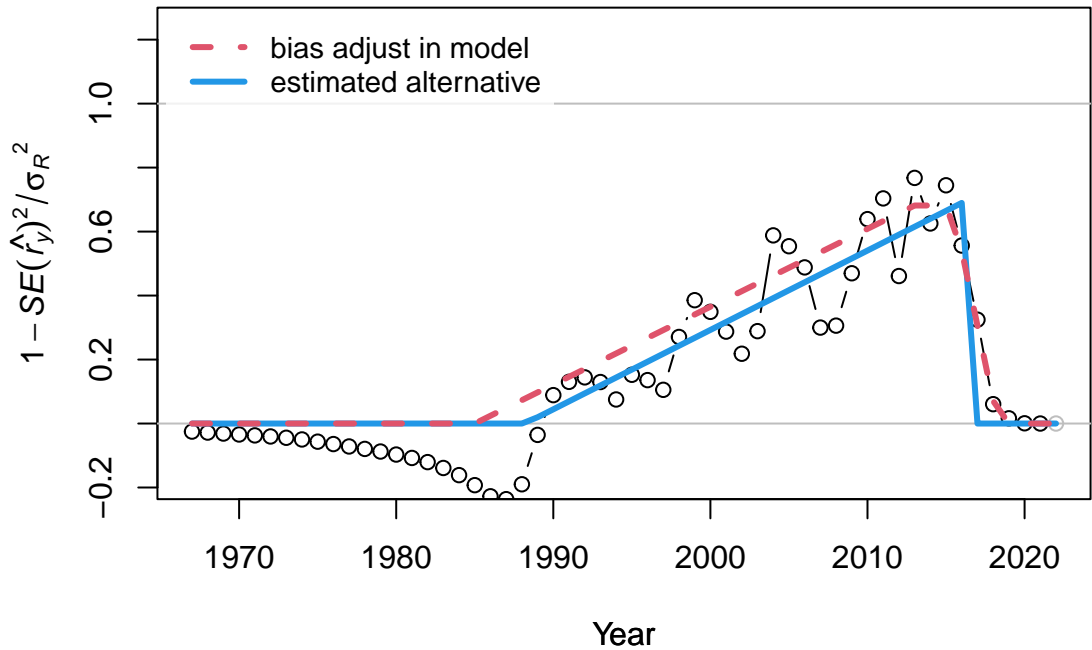


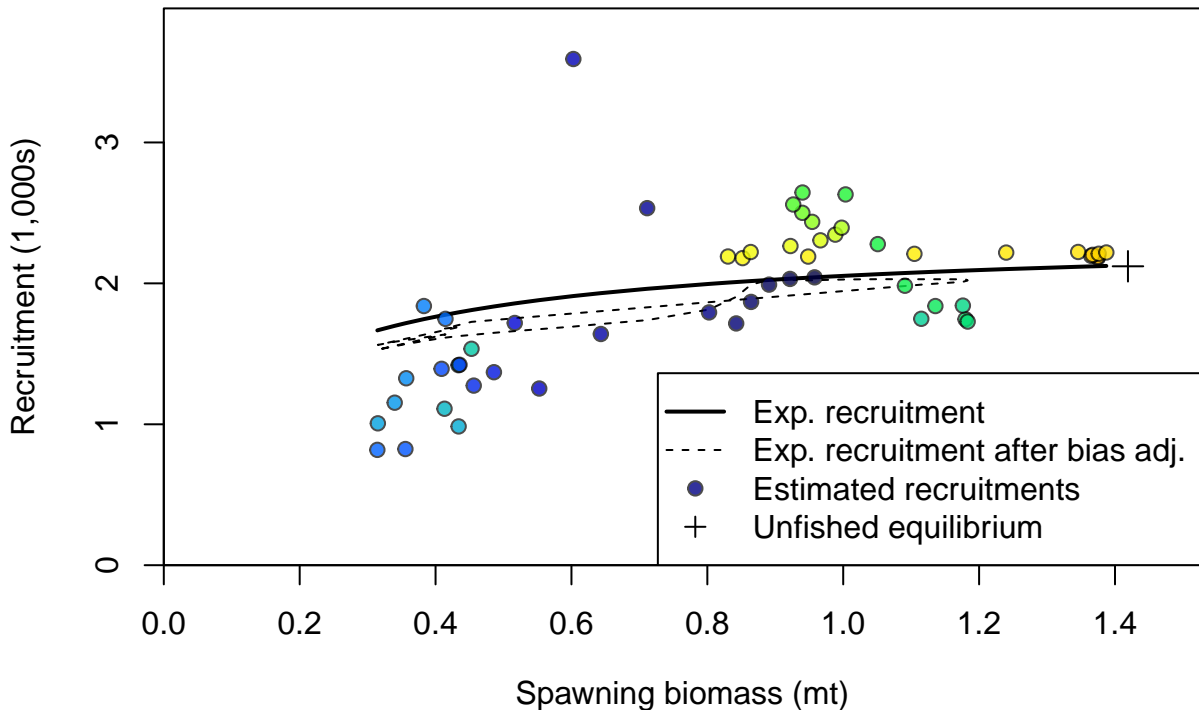
## Recruitment deviation variance

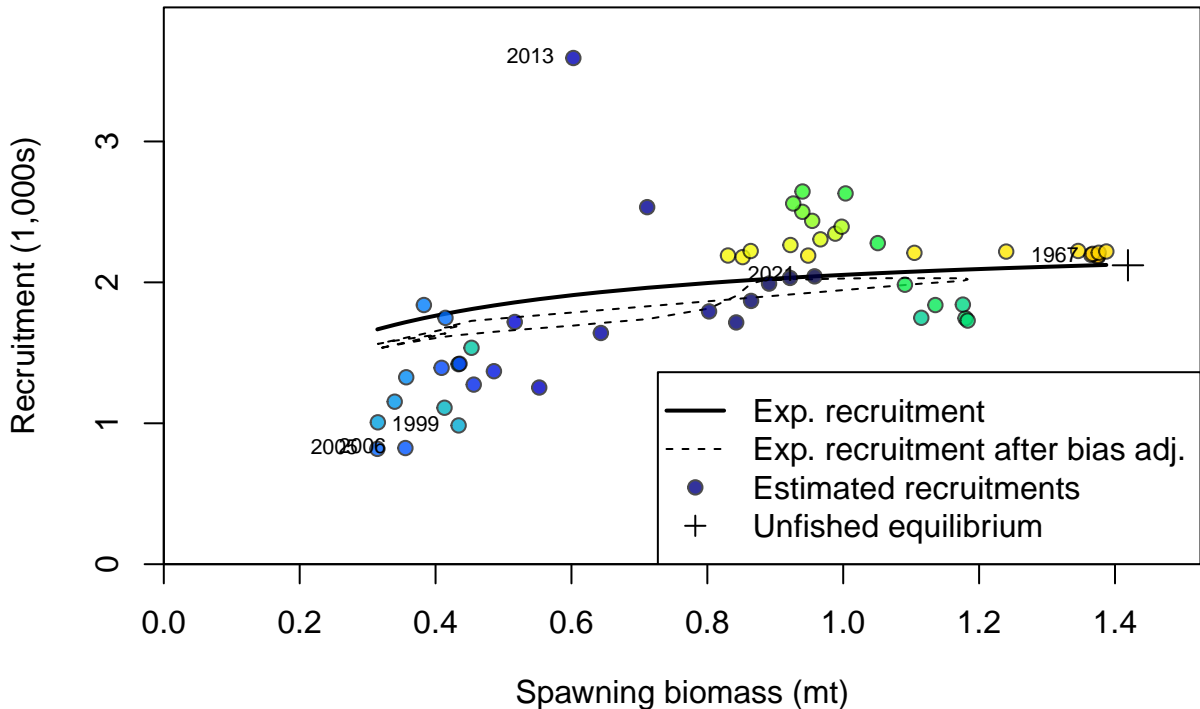
Asymptotic standard error estimate

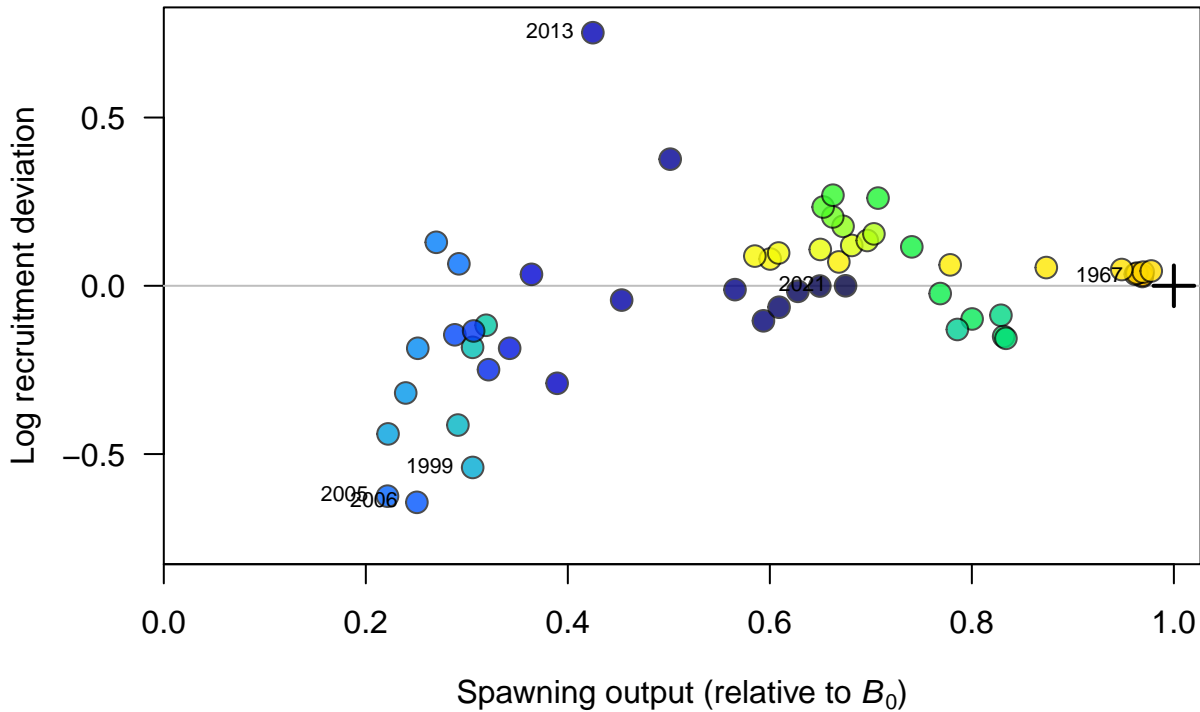


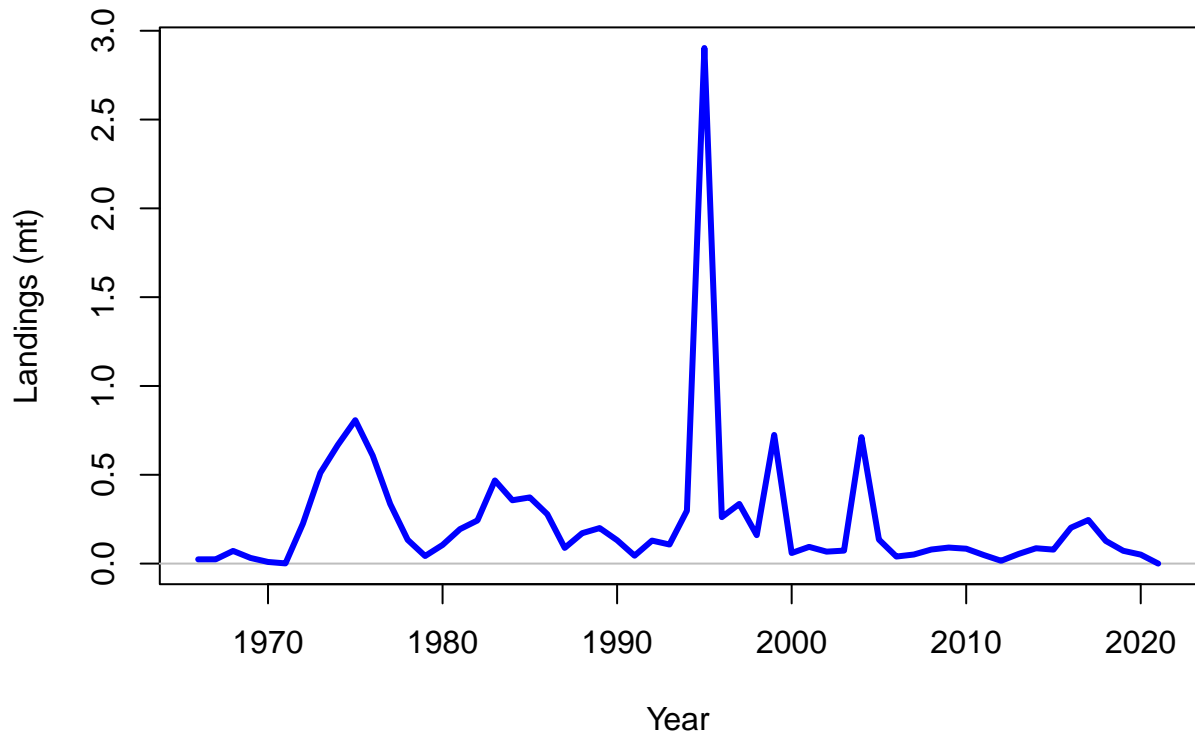


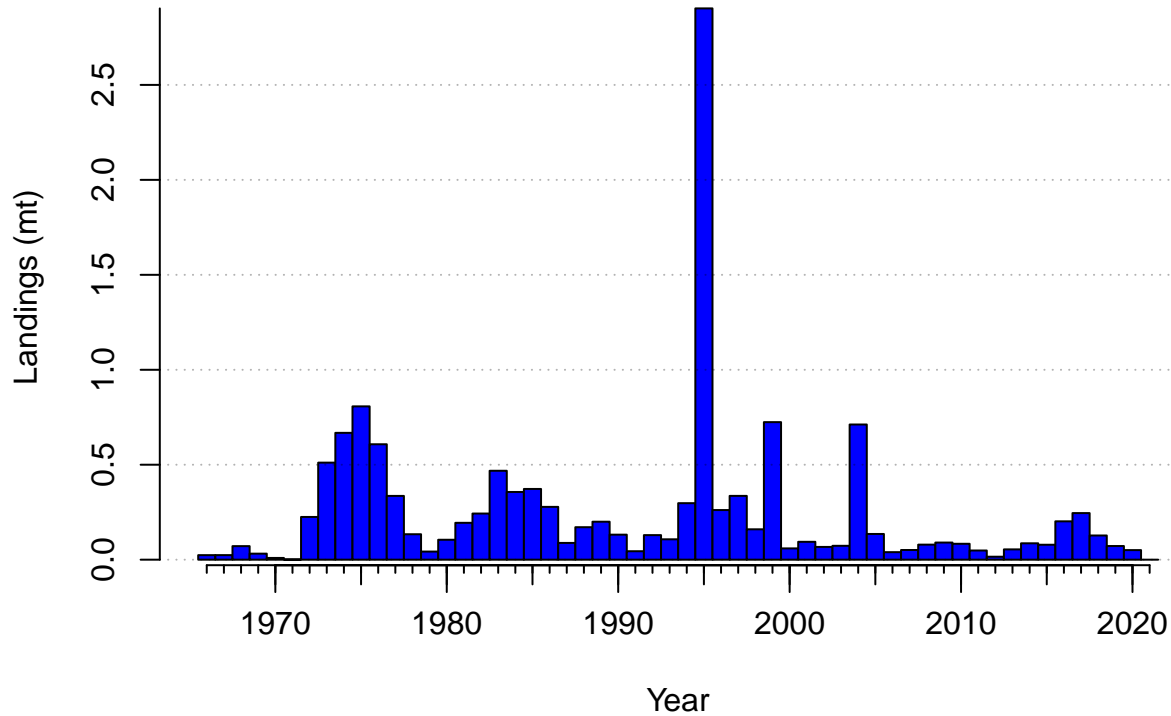


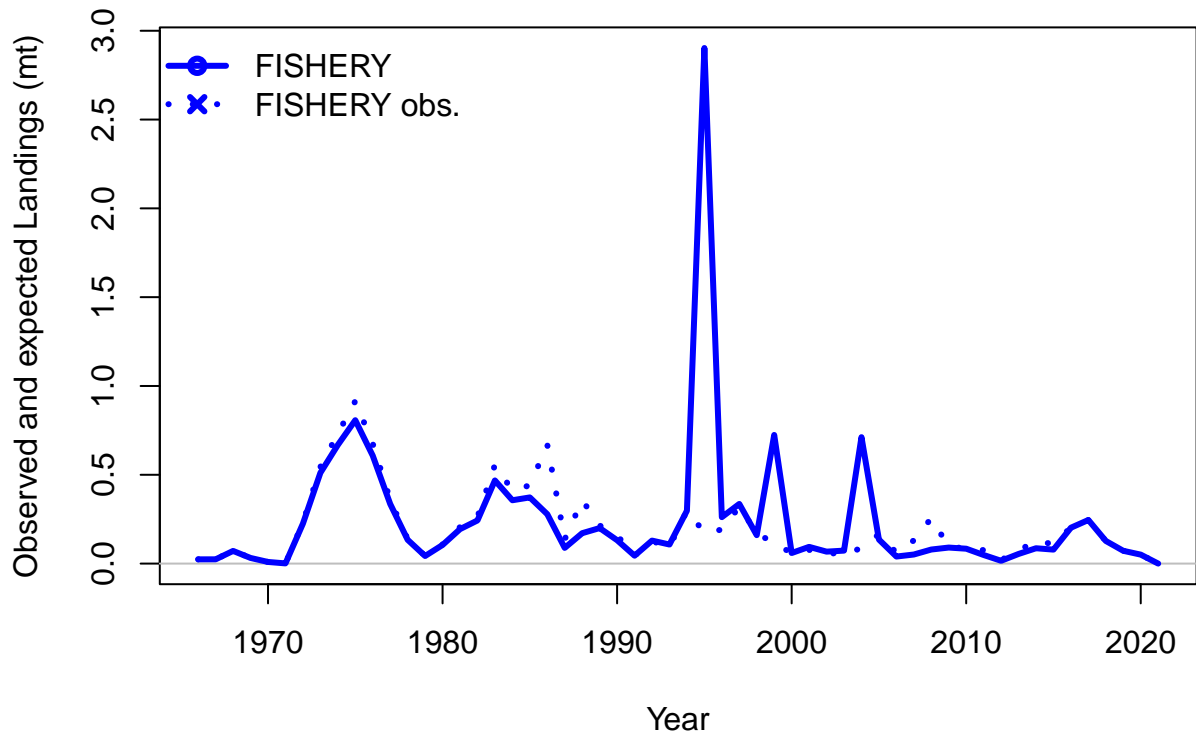


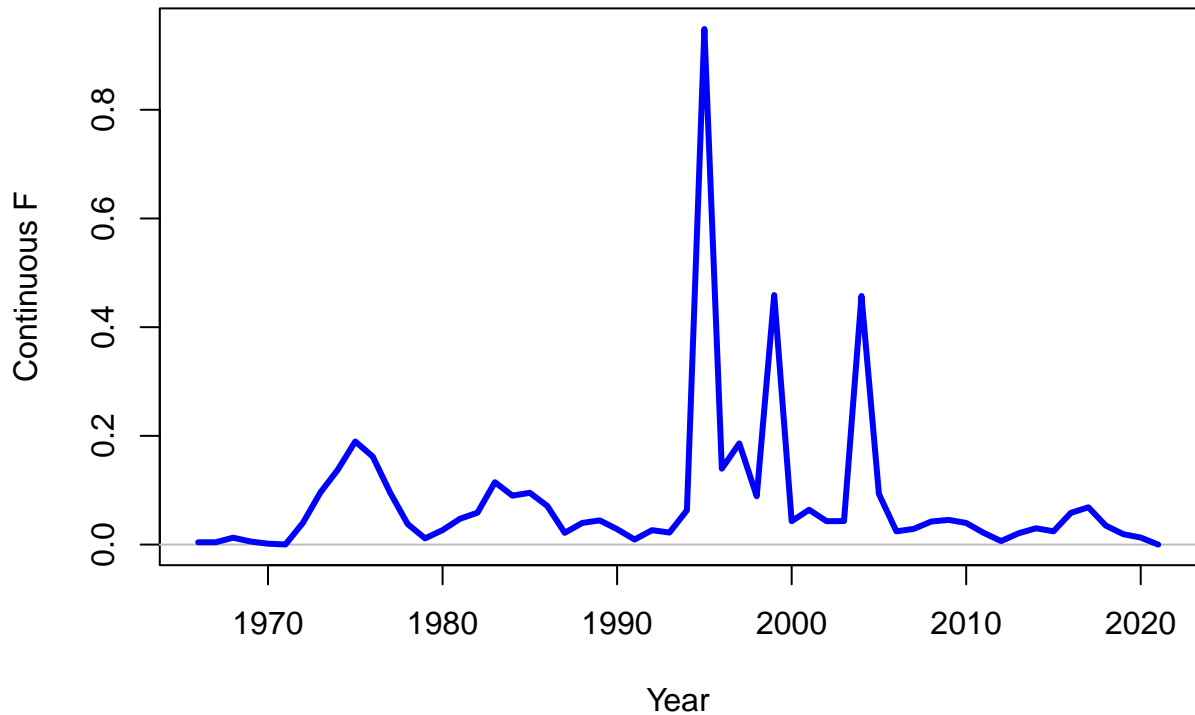






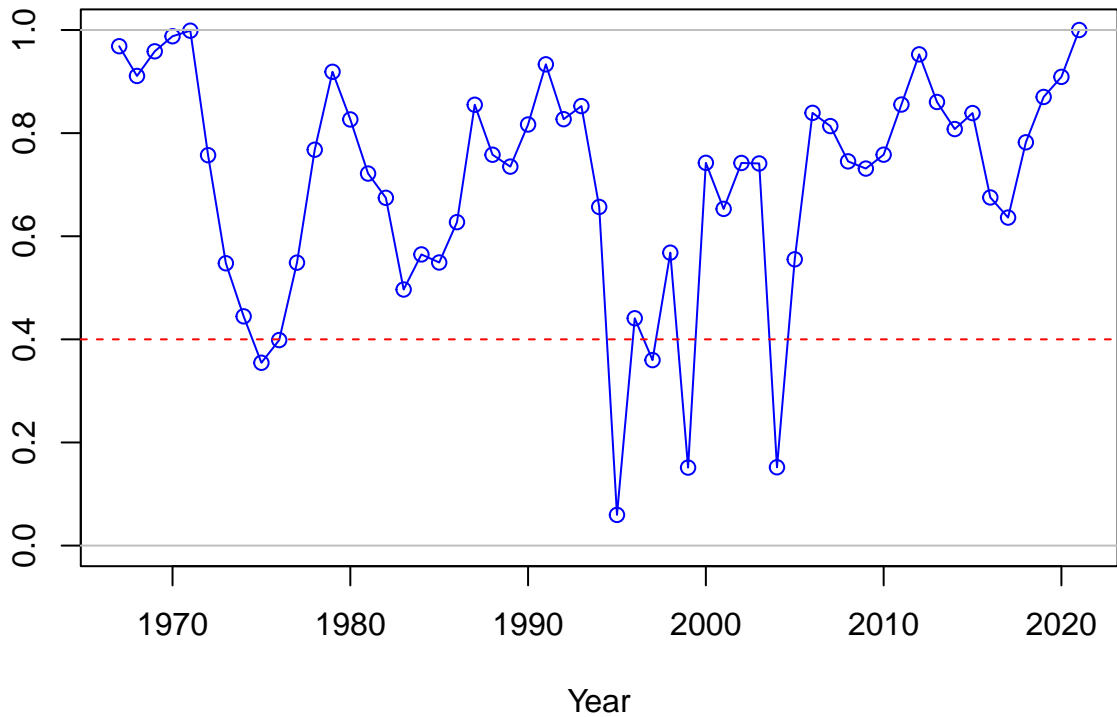


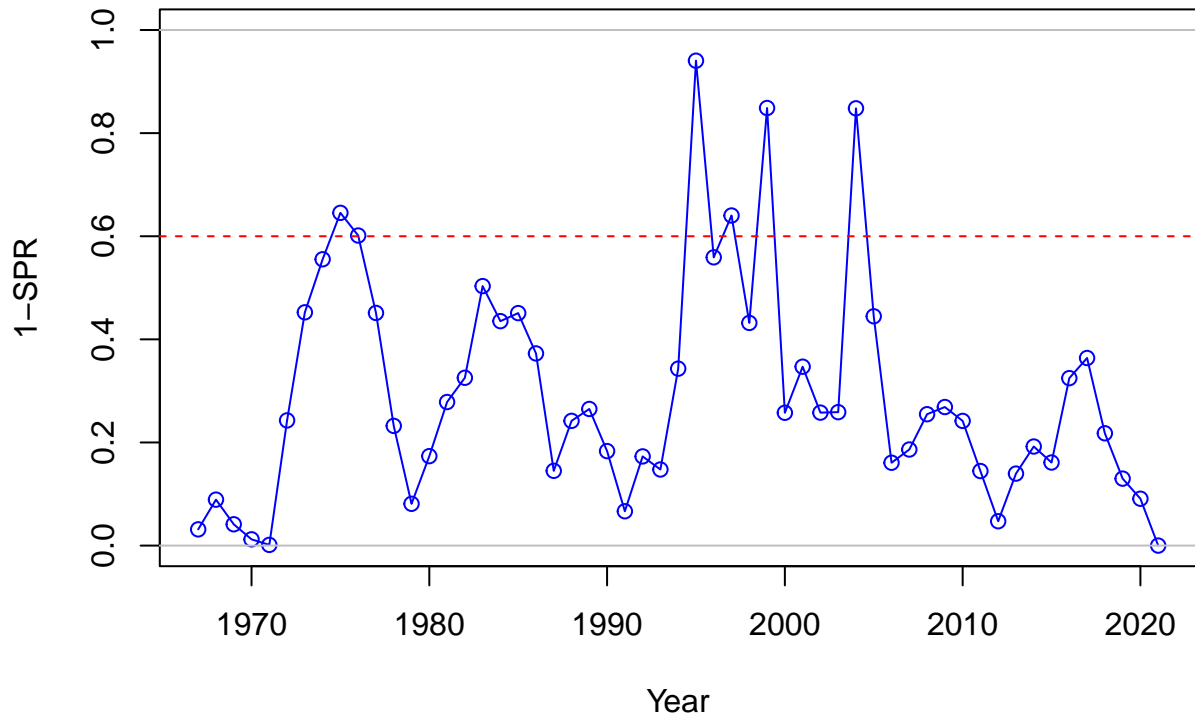




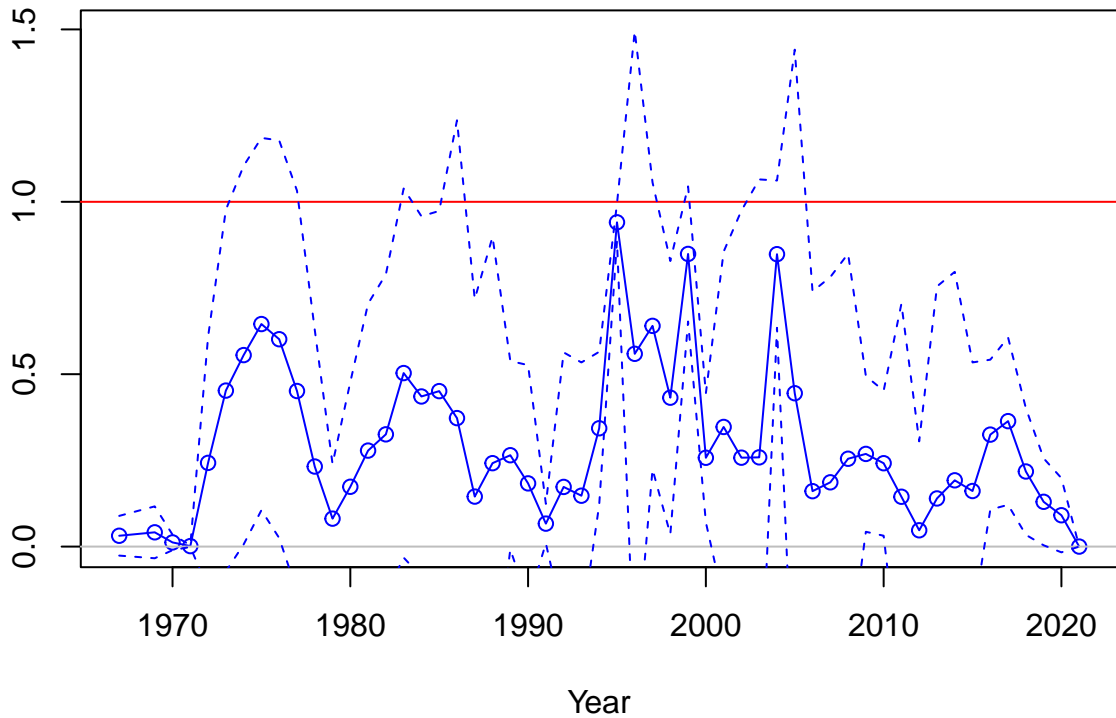


SPR

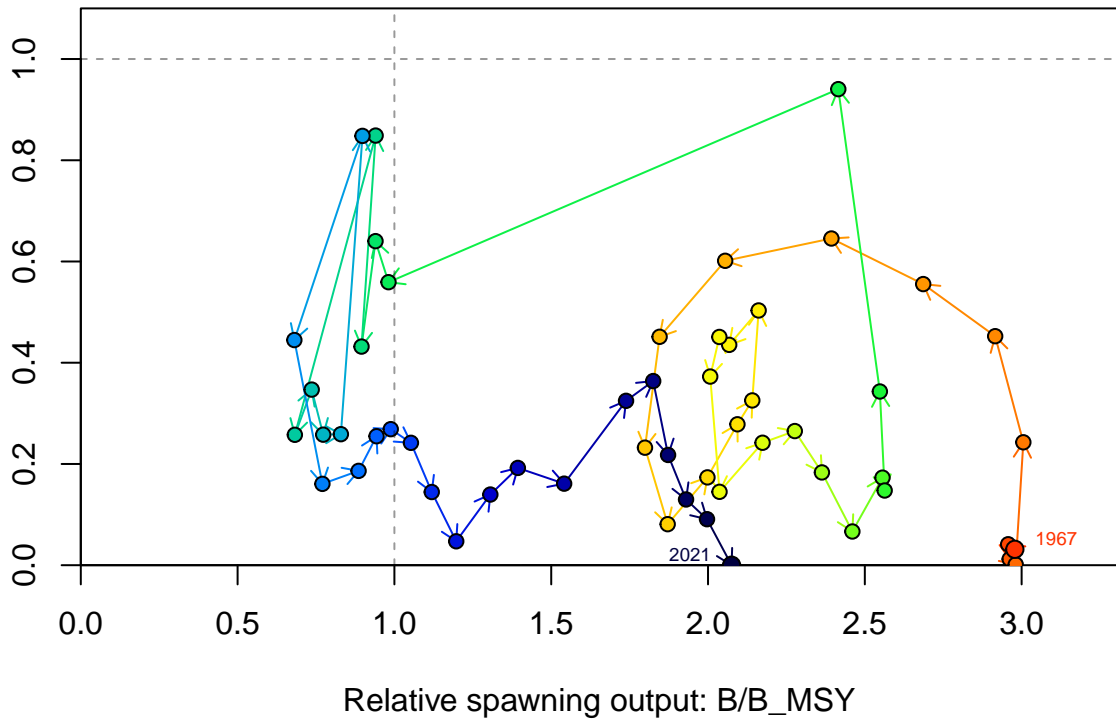




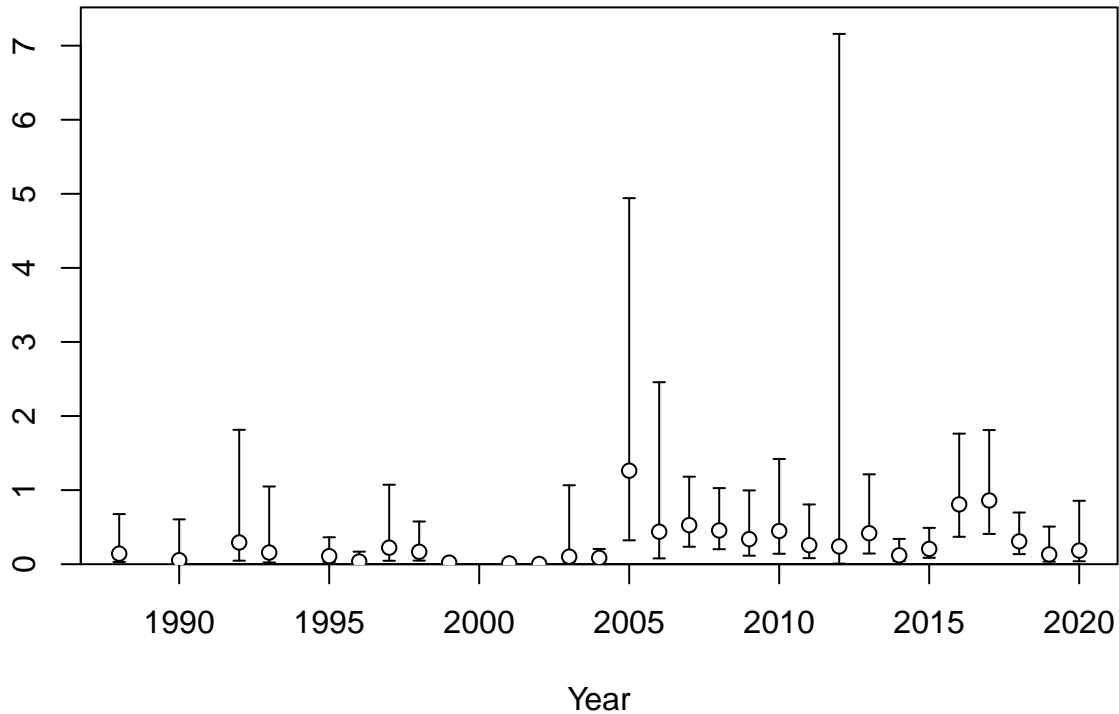
Fishing intensity: 1-SPR



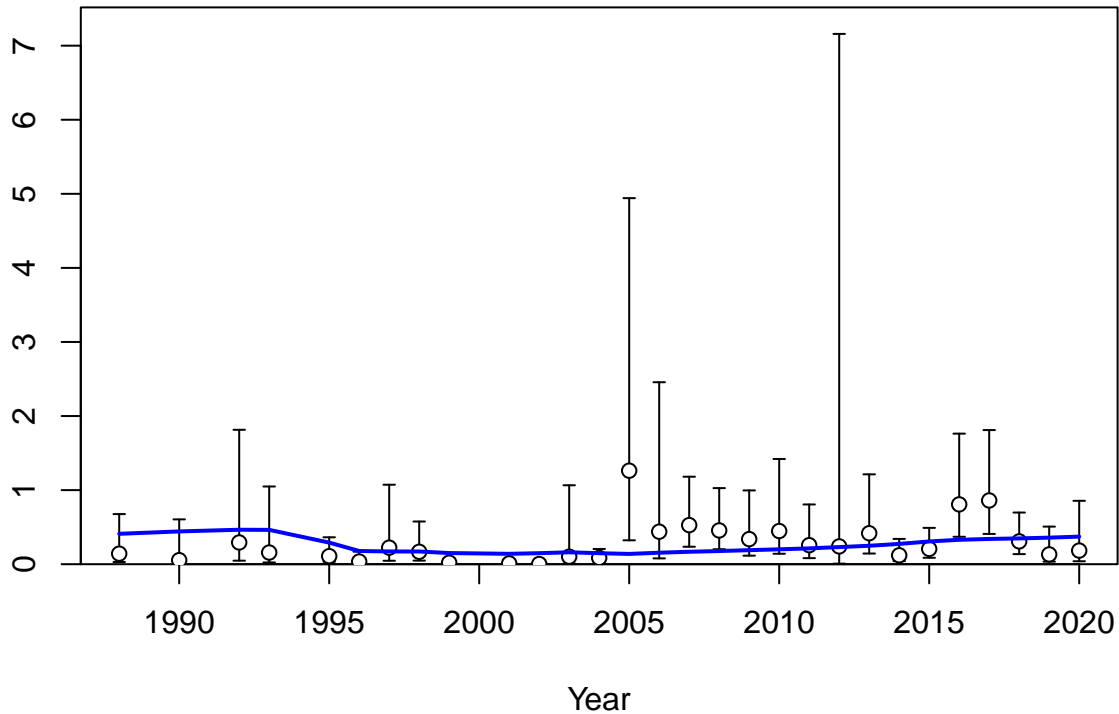
Fishing intensity: 1-SPR

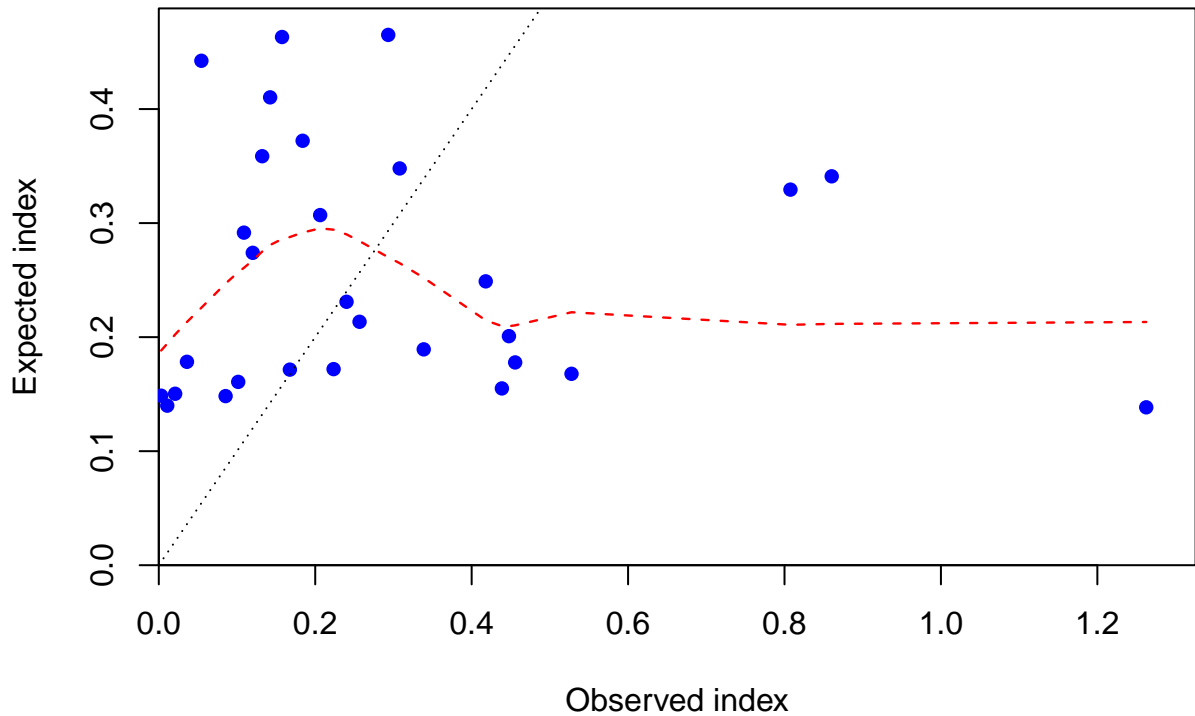


Index

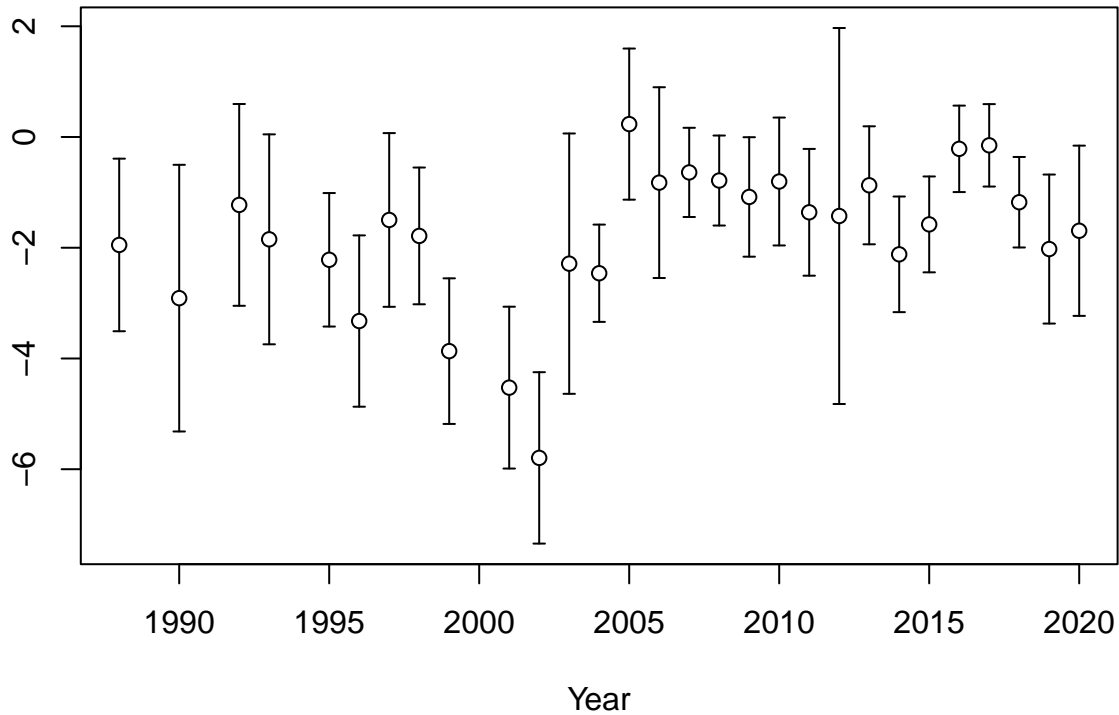


Index



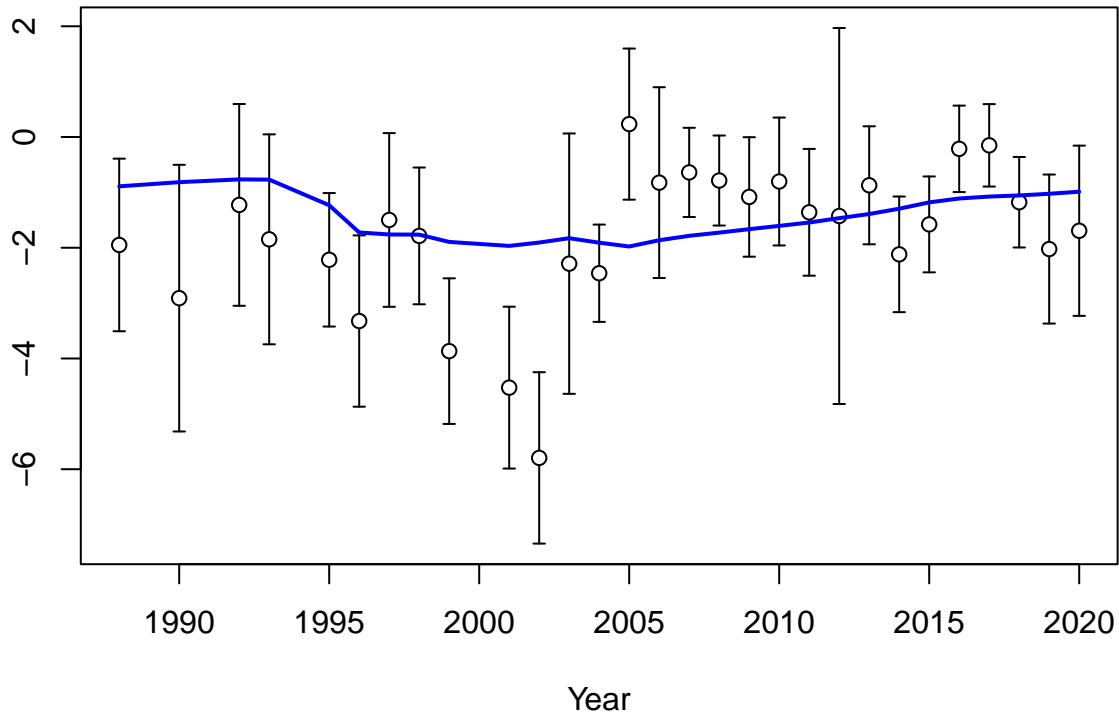


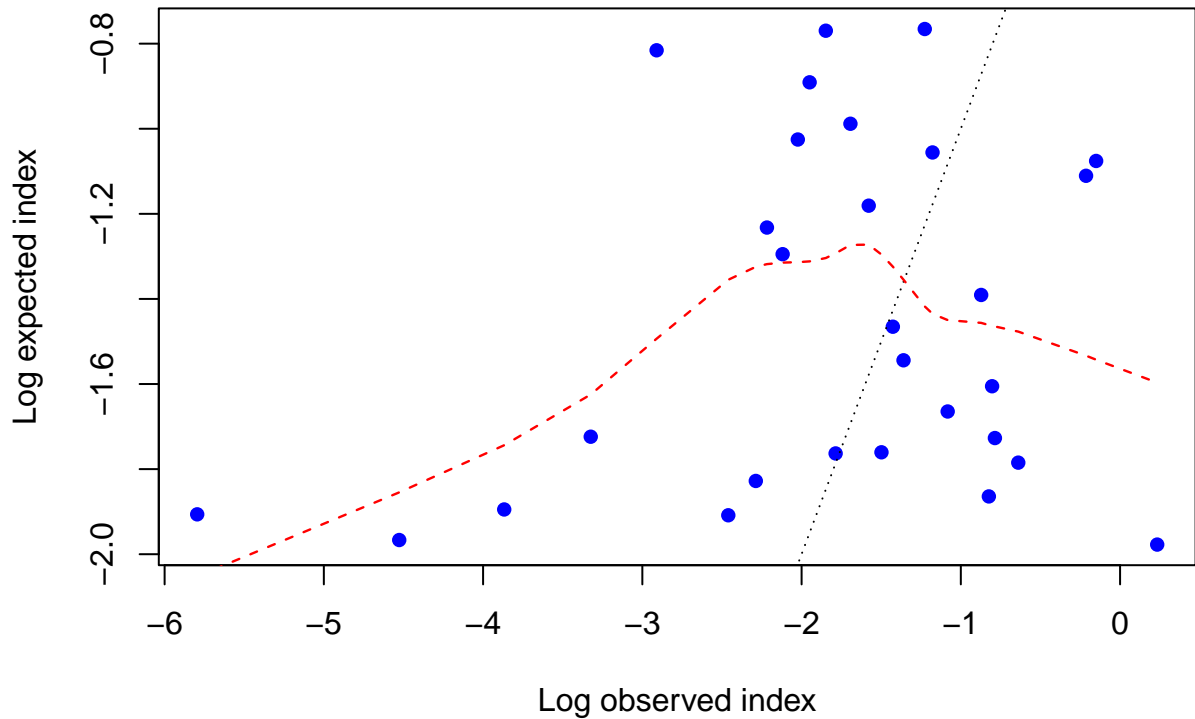
Log index

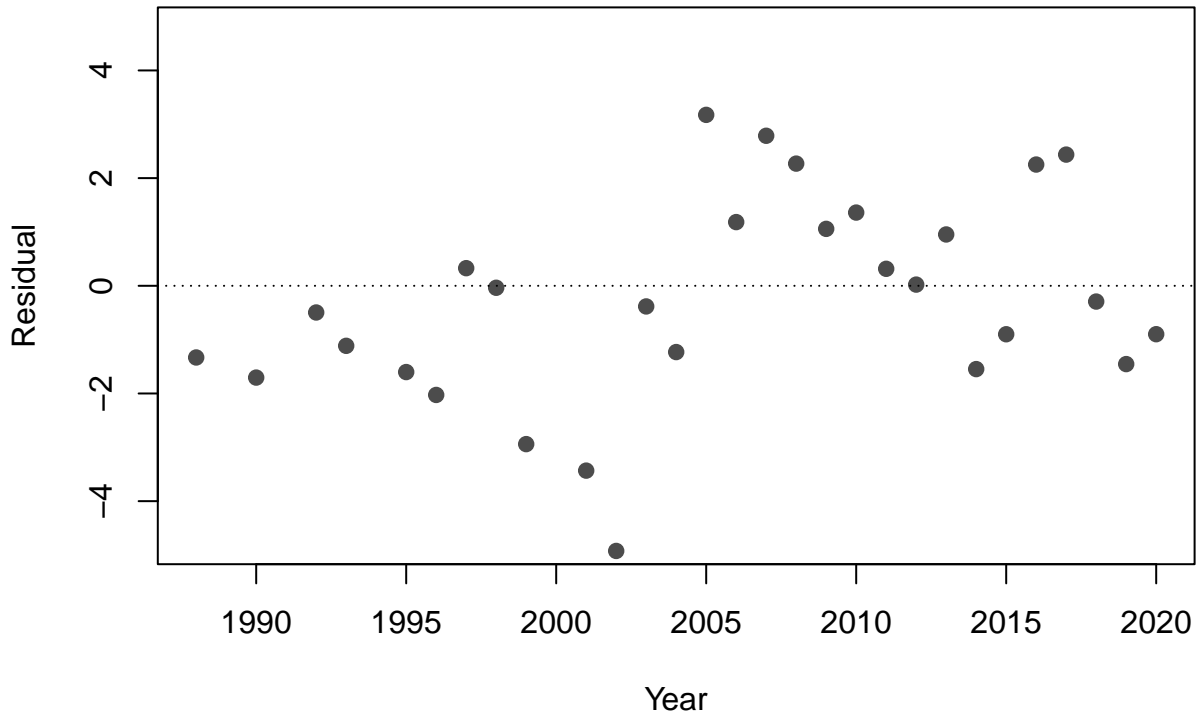




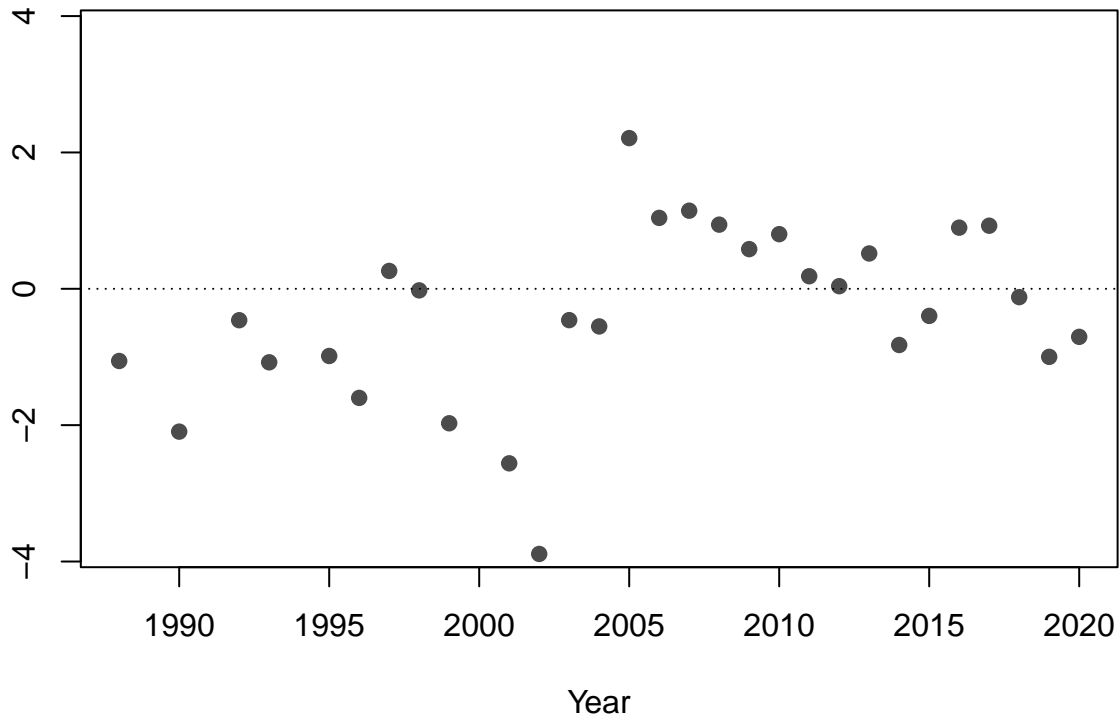
Log index

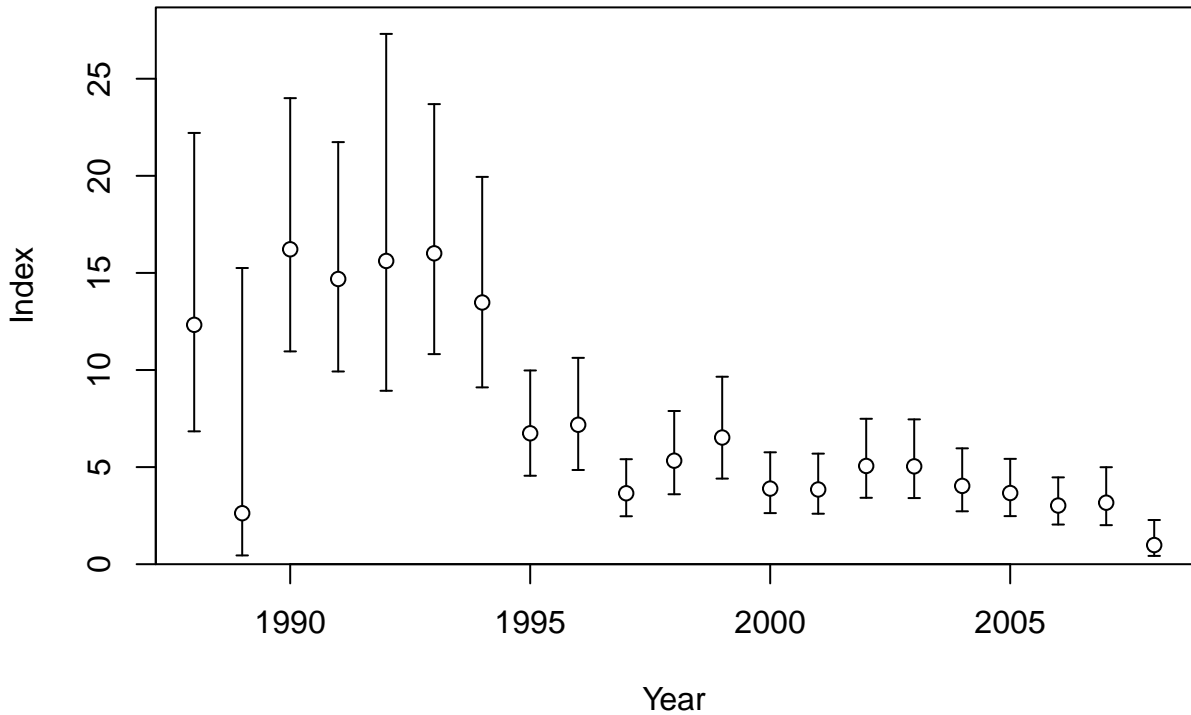


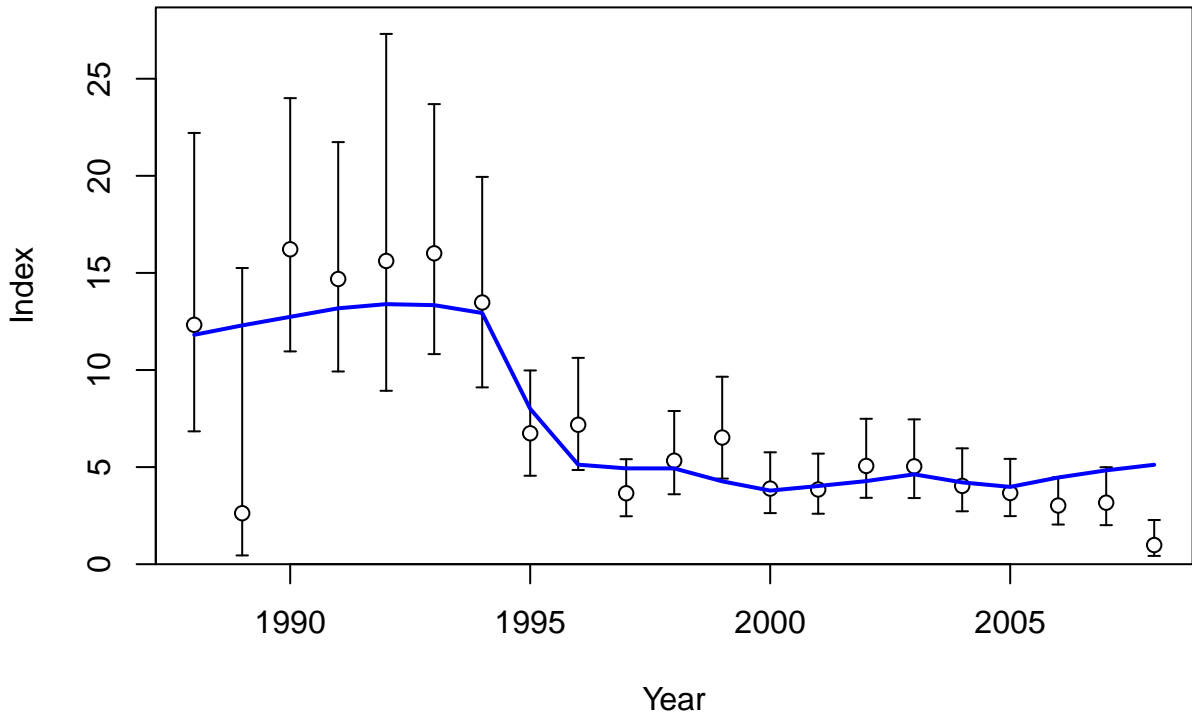




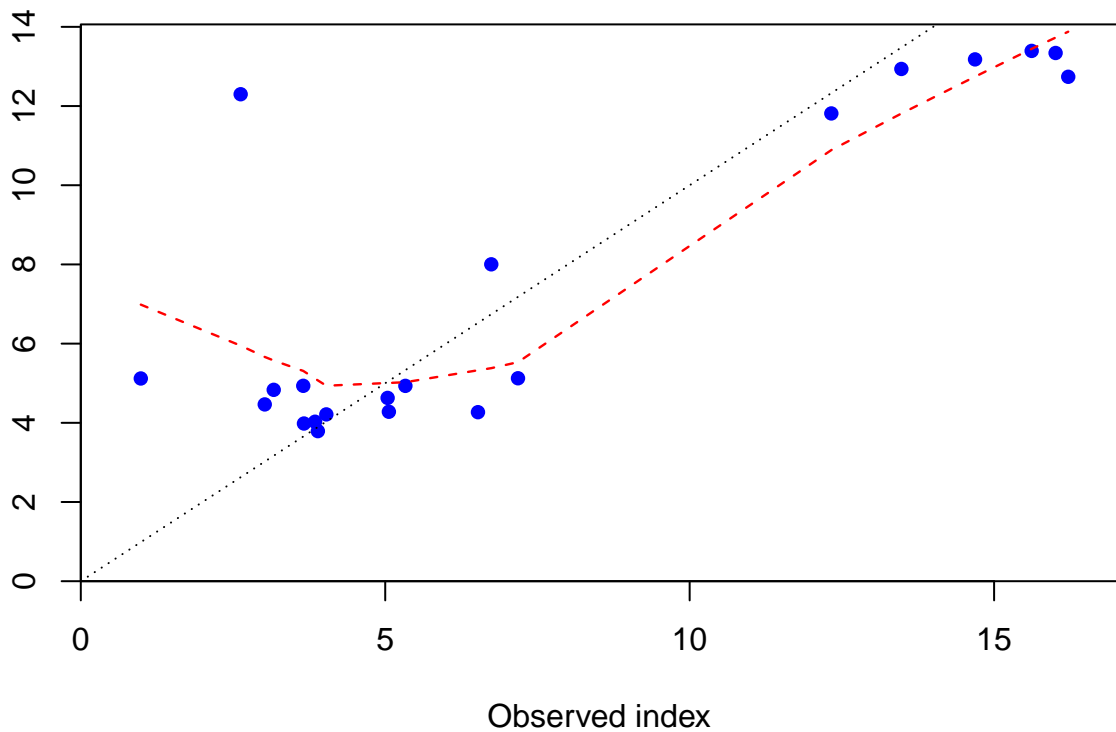
Deviation

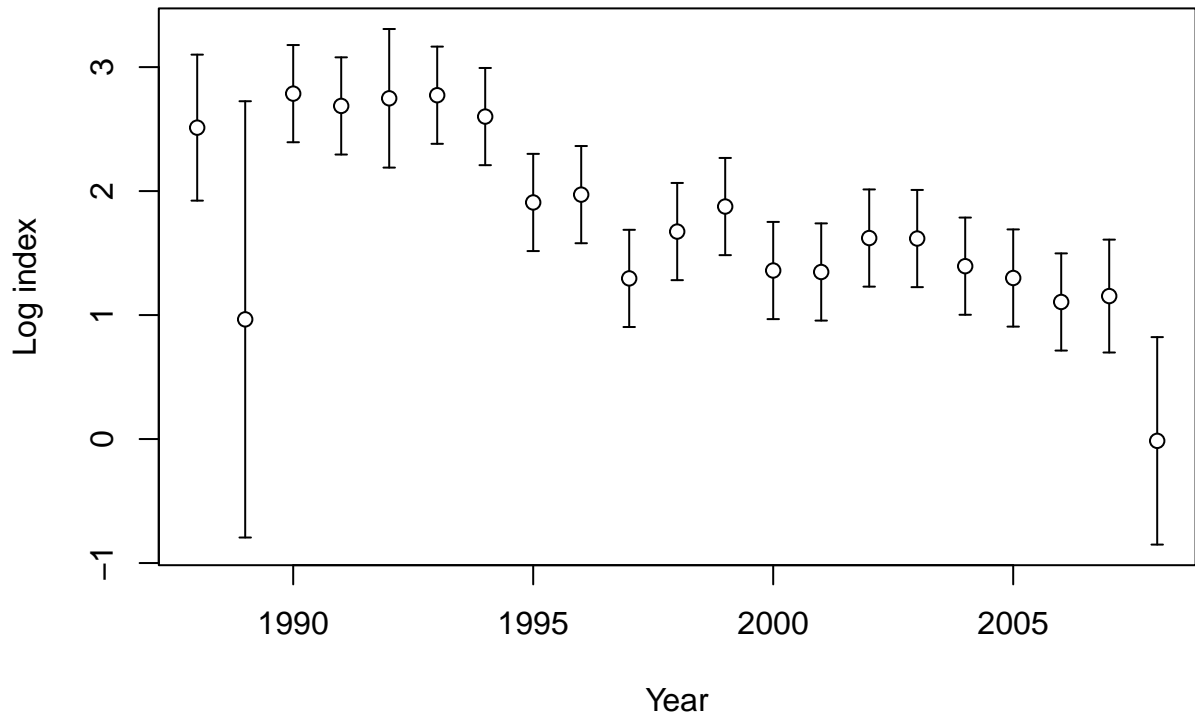




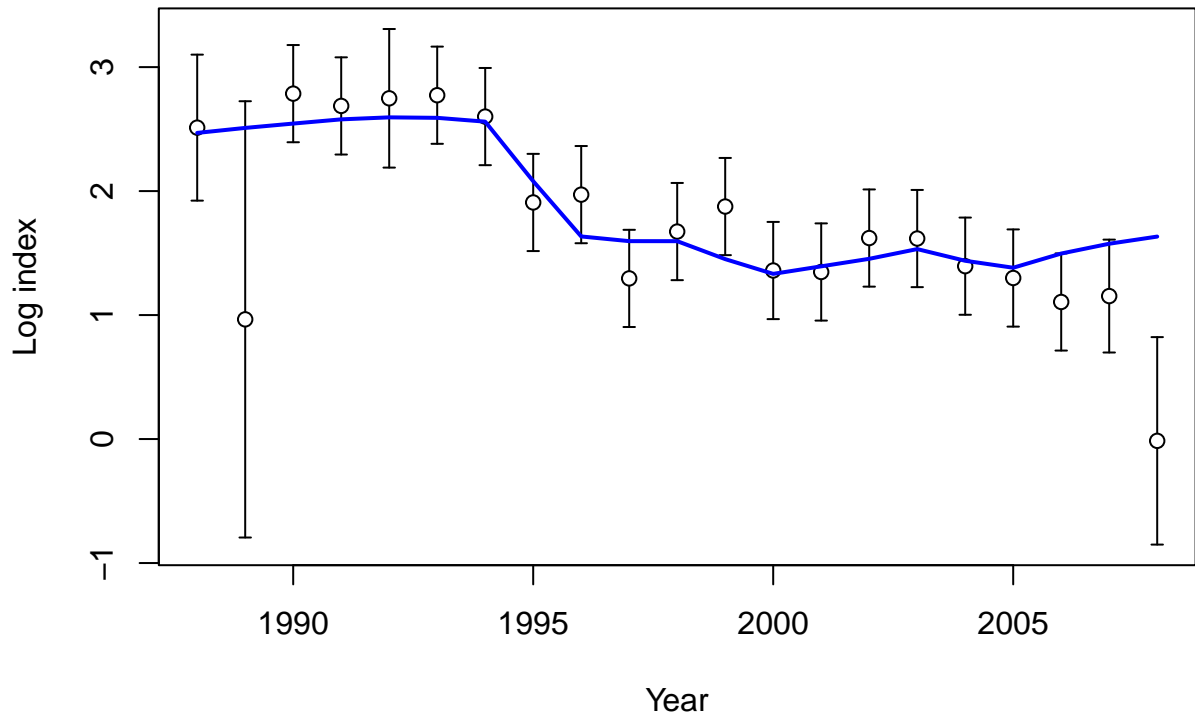


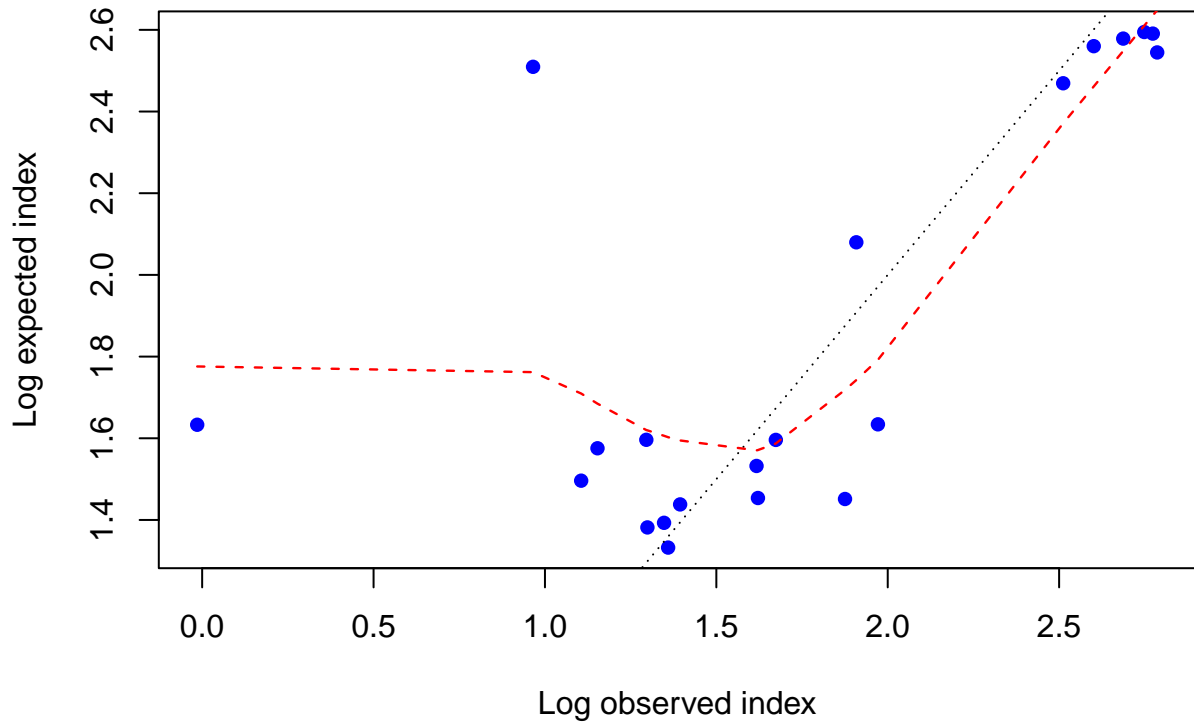
Expected index



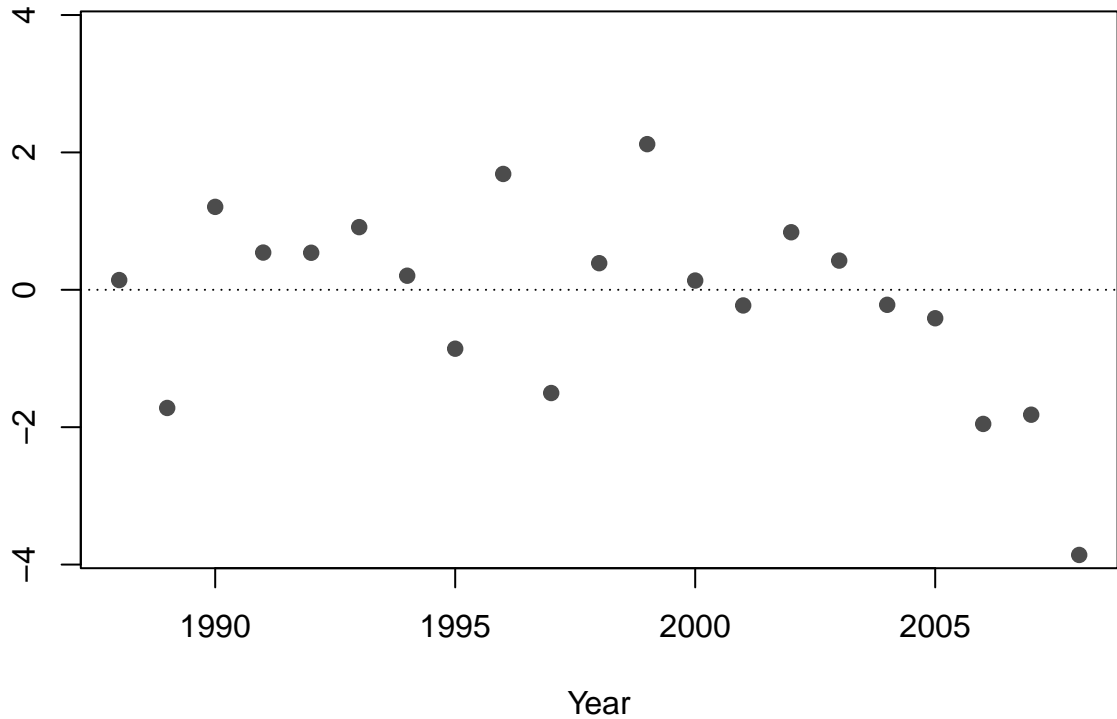


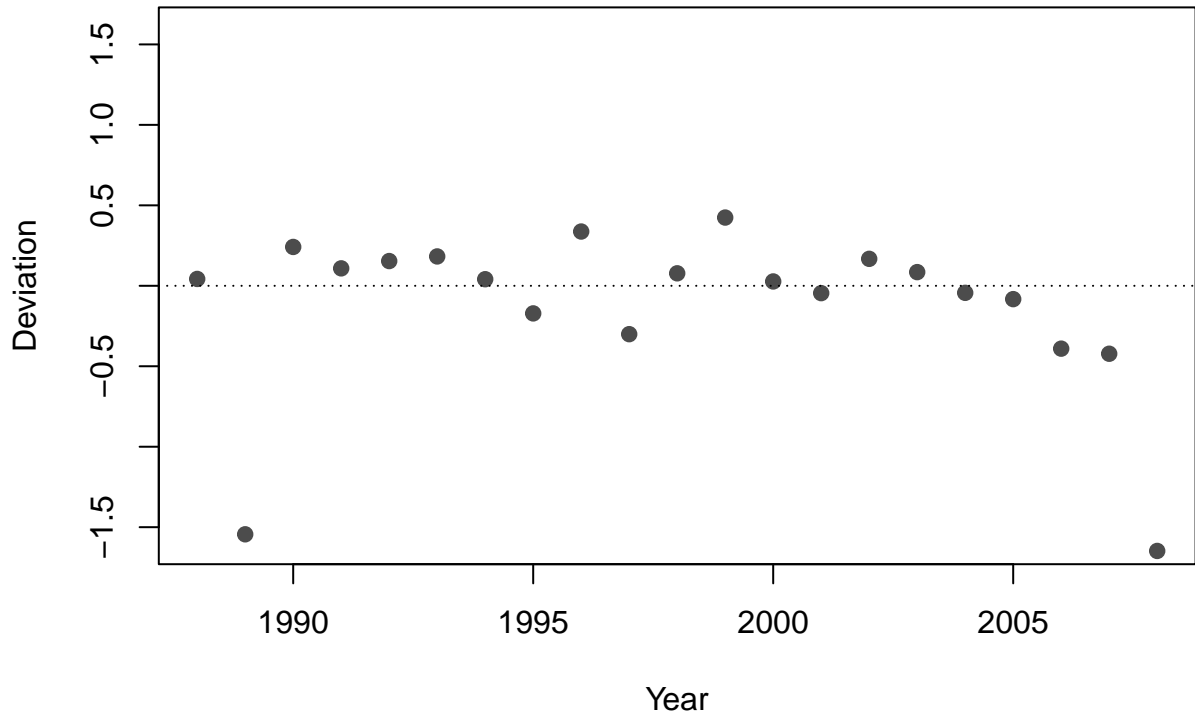


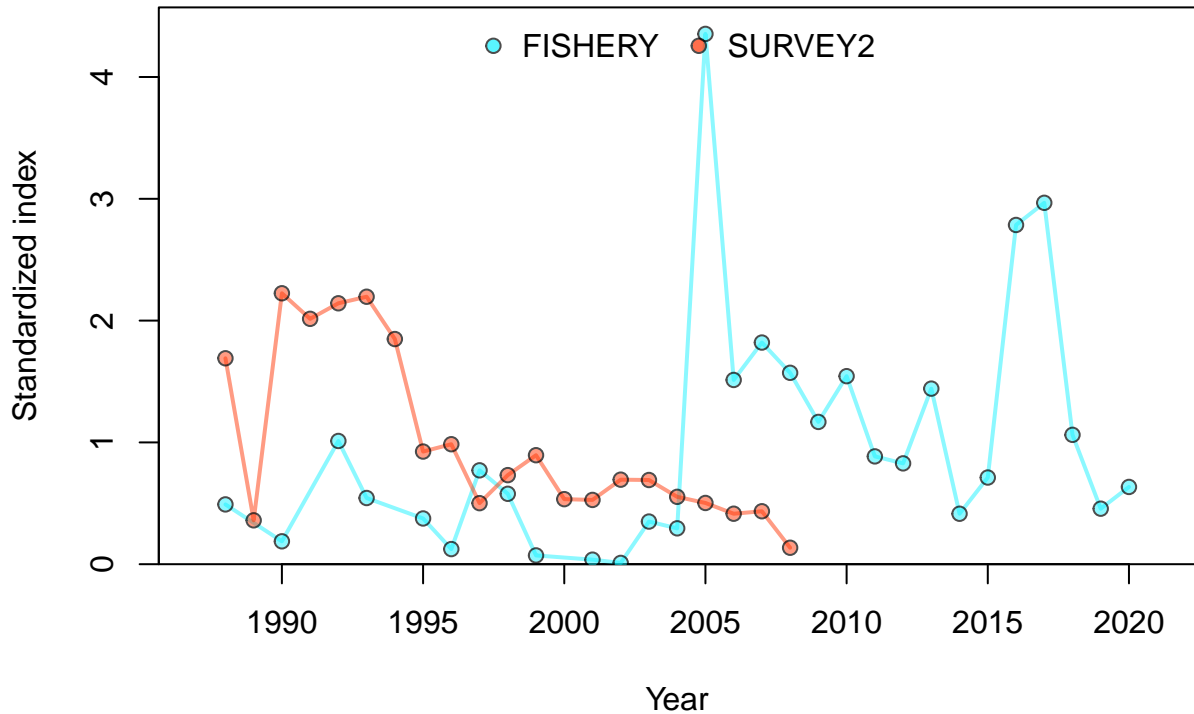


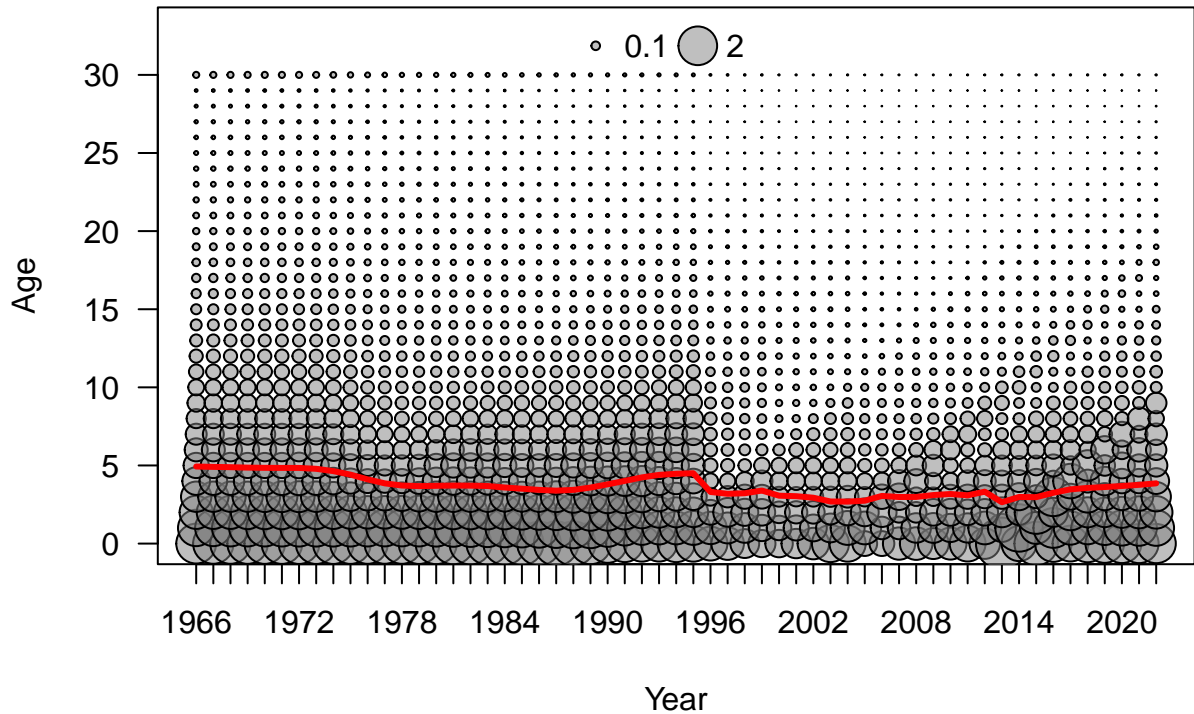


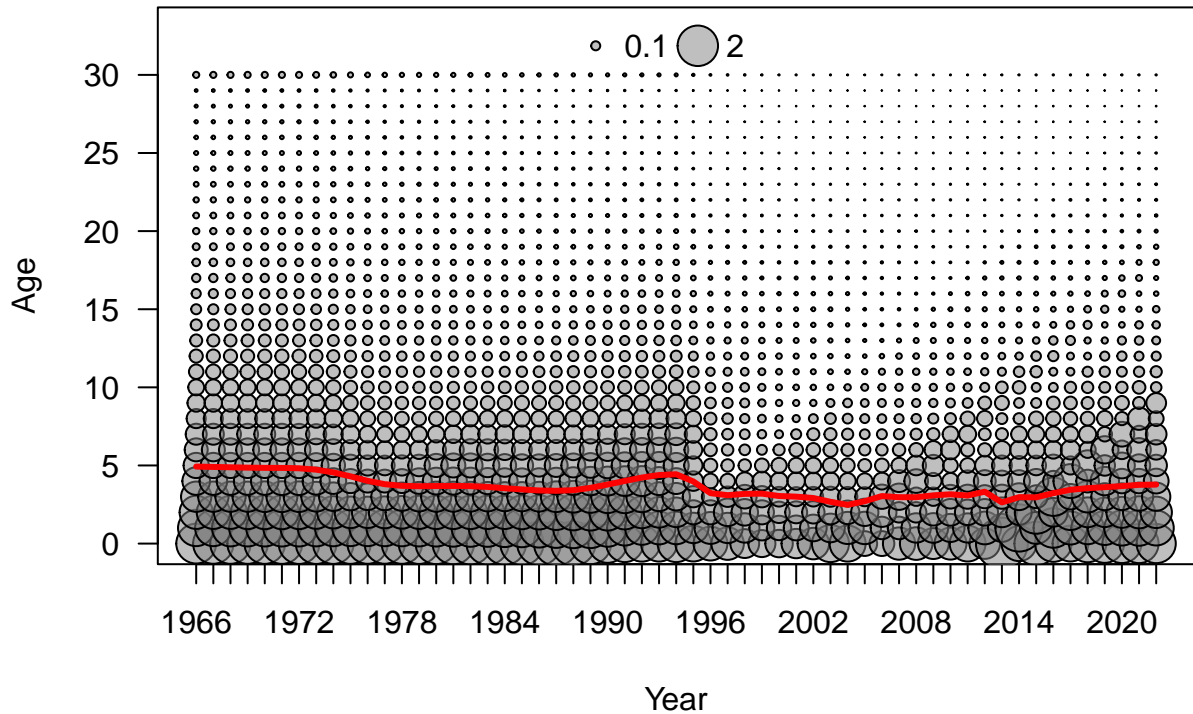
Residual

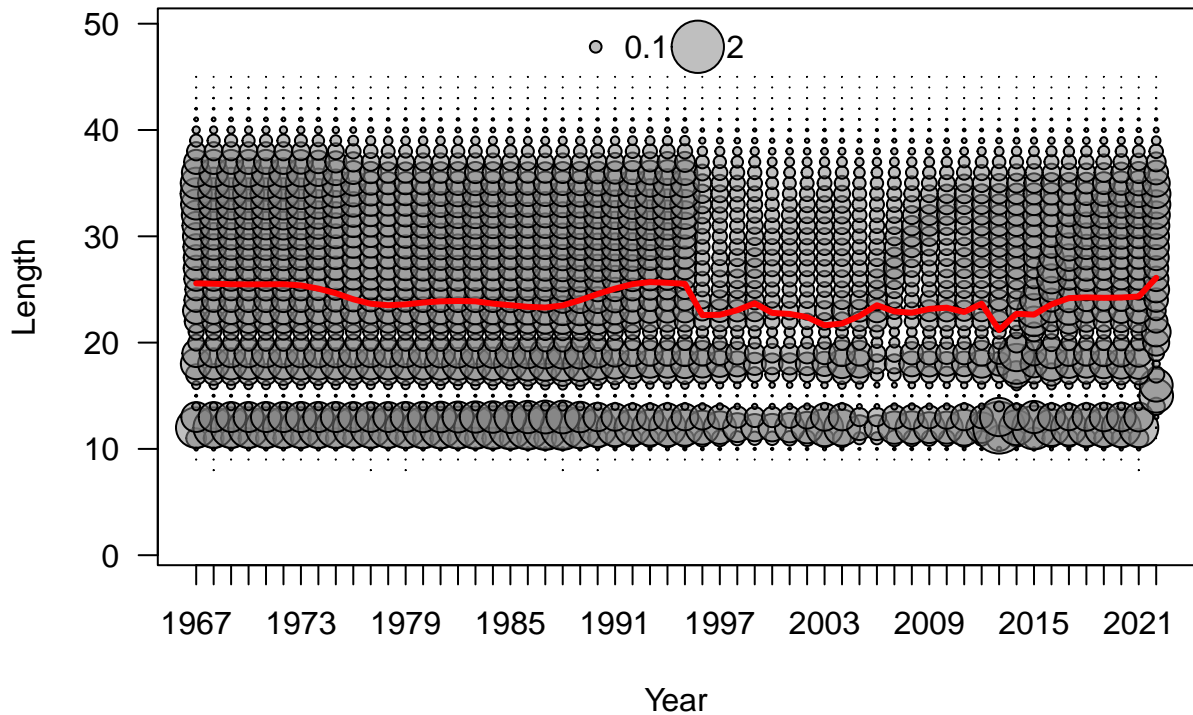




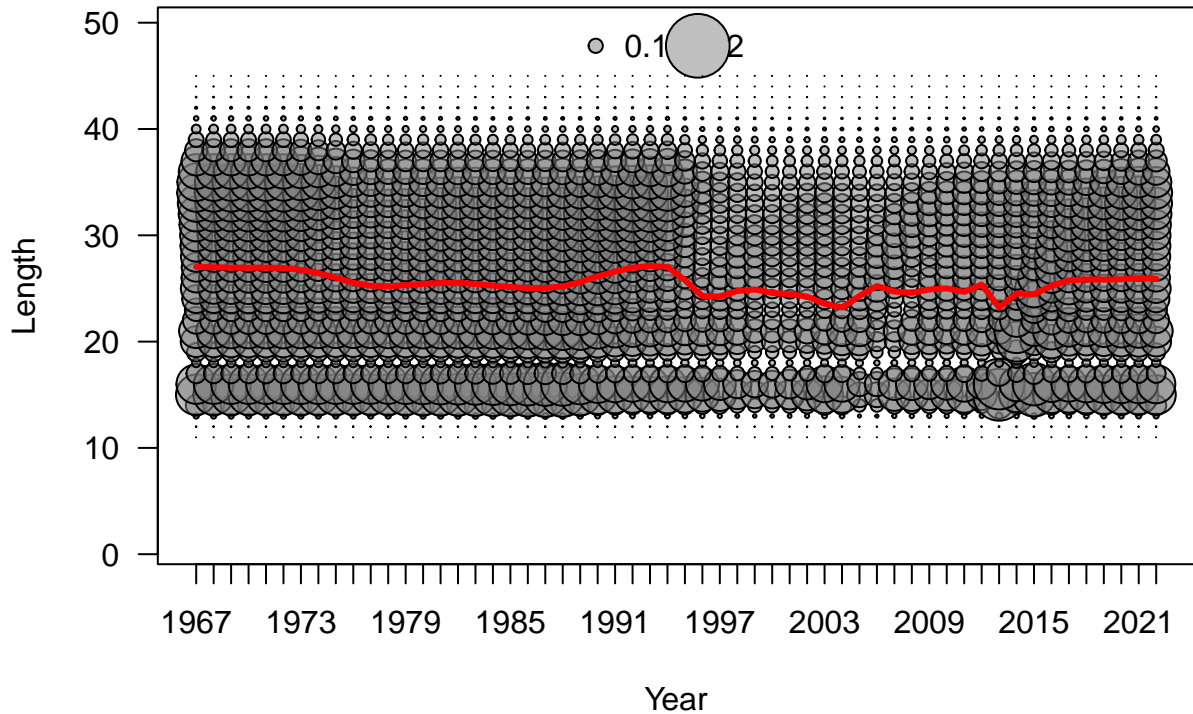


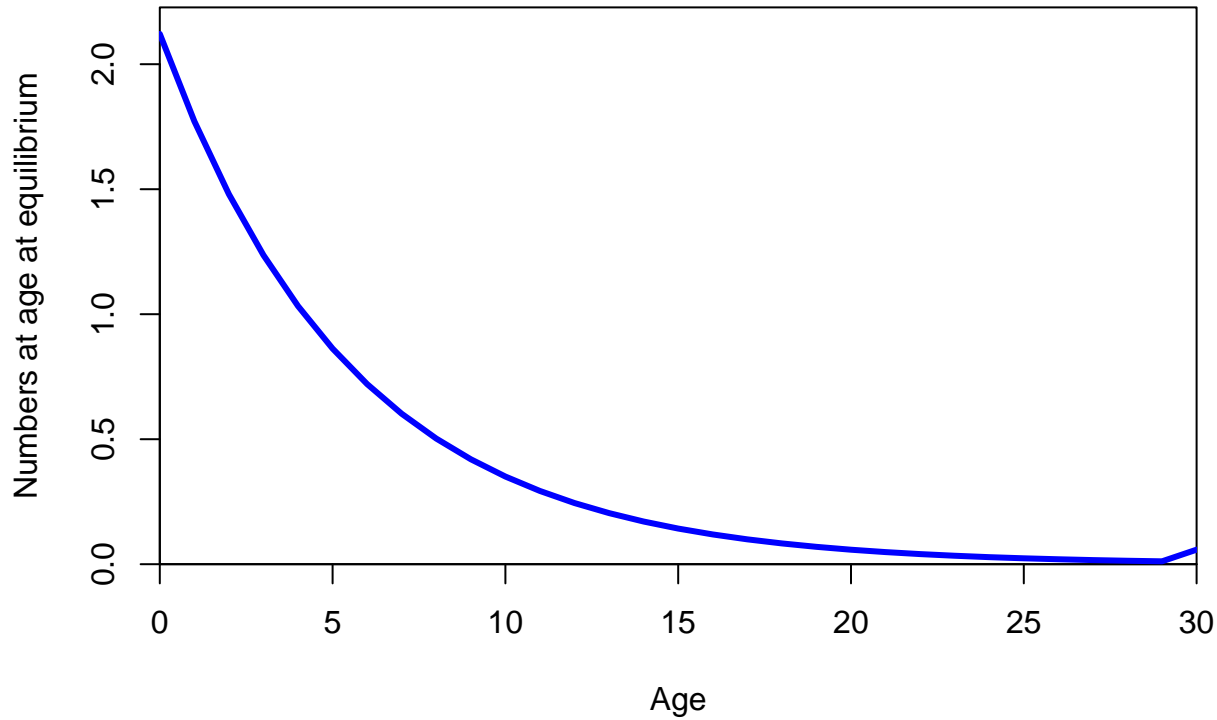


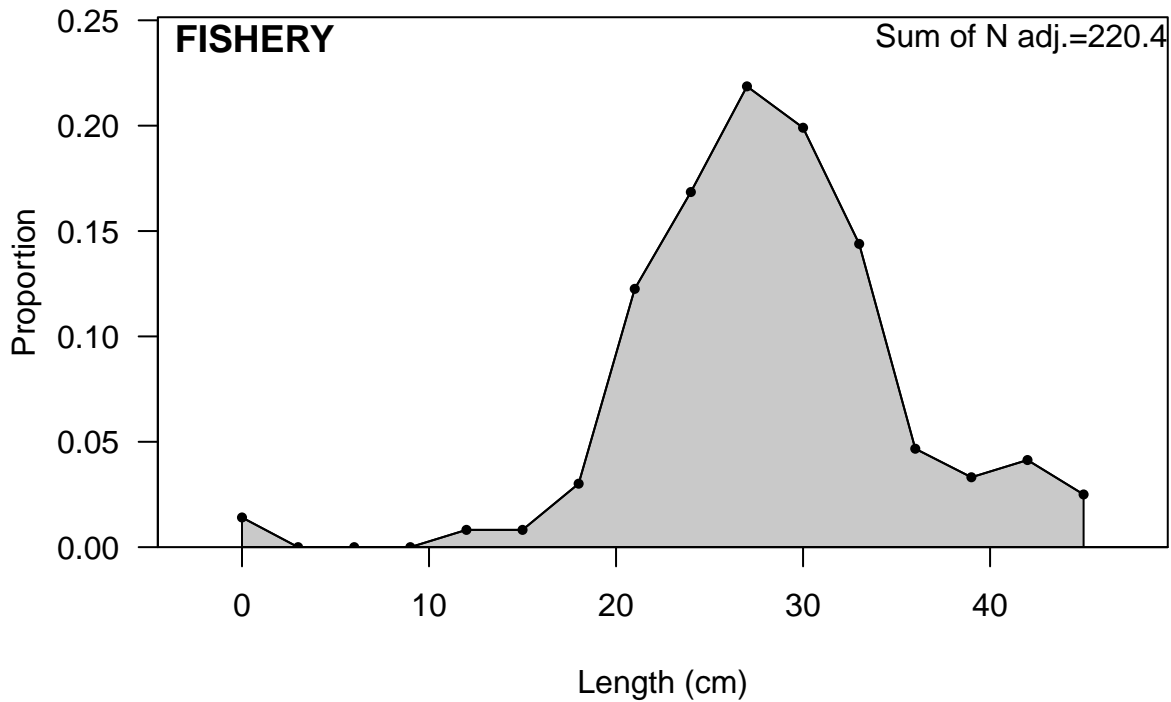


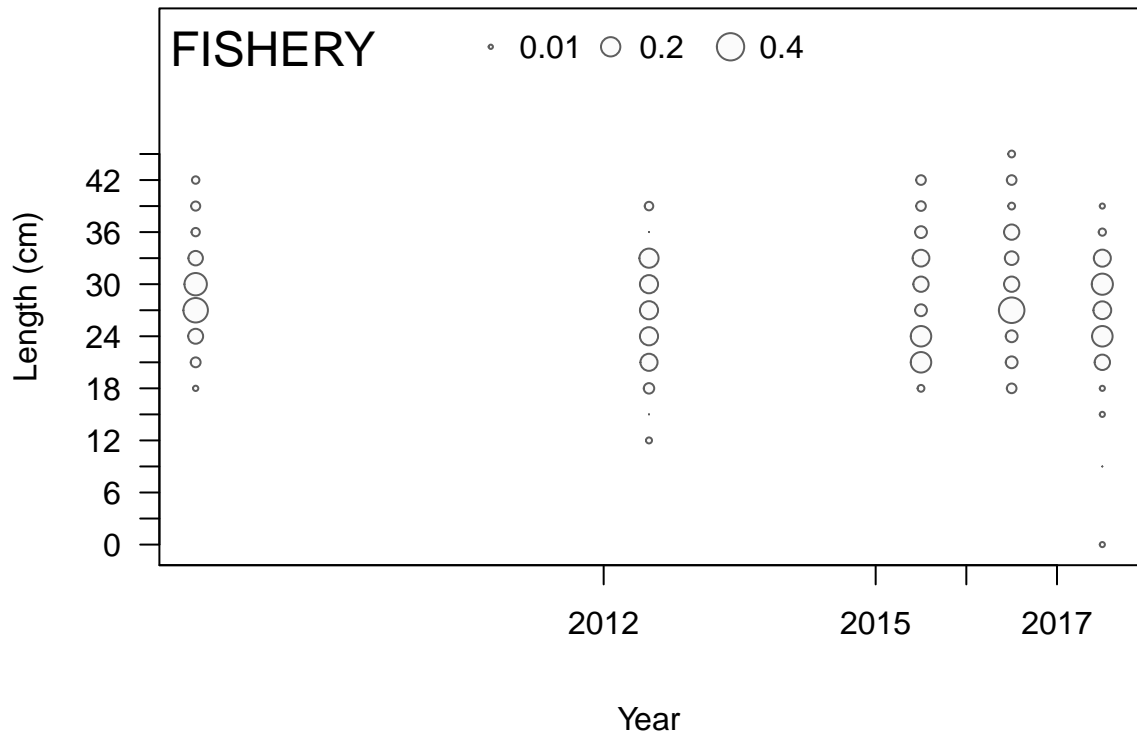




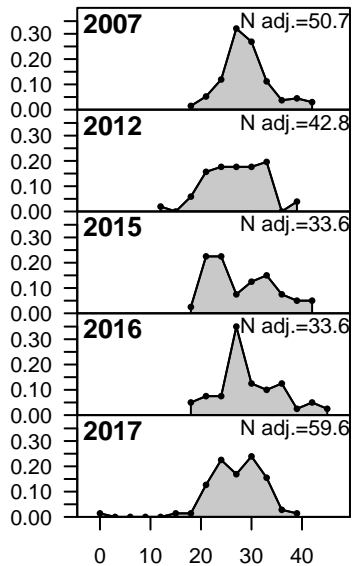




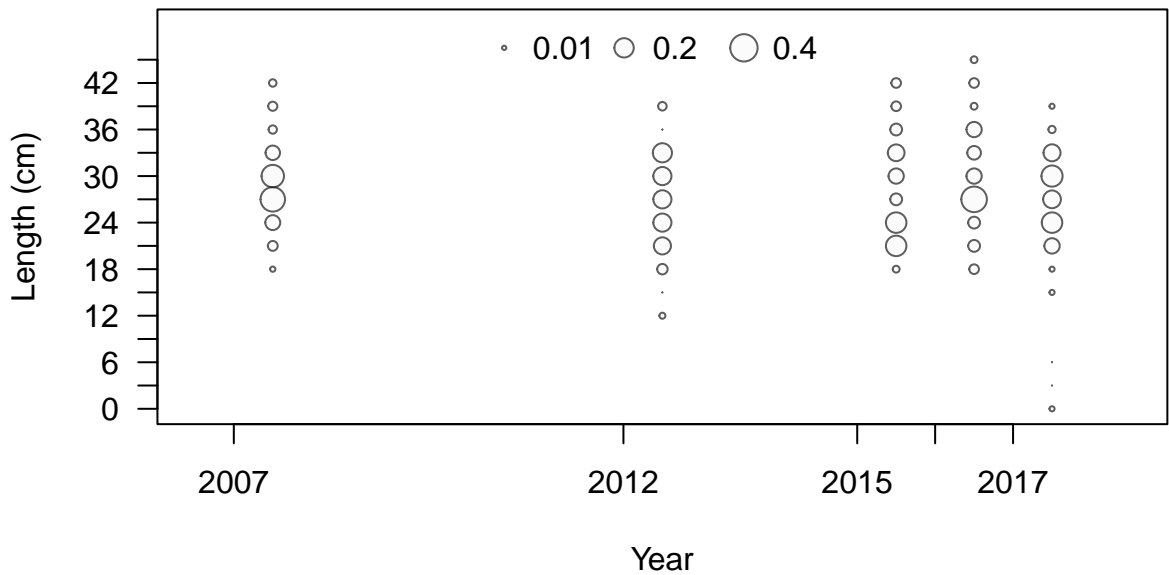




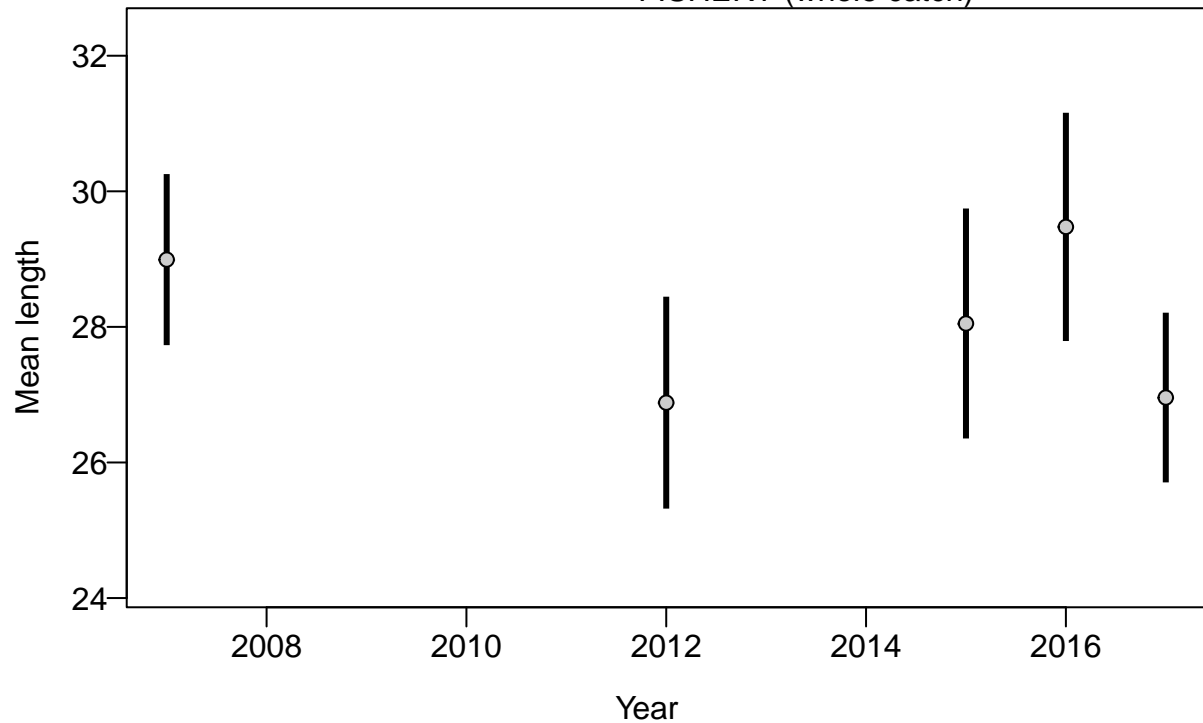
Proportion

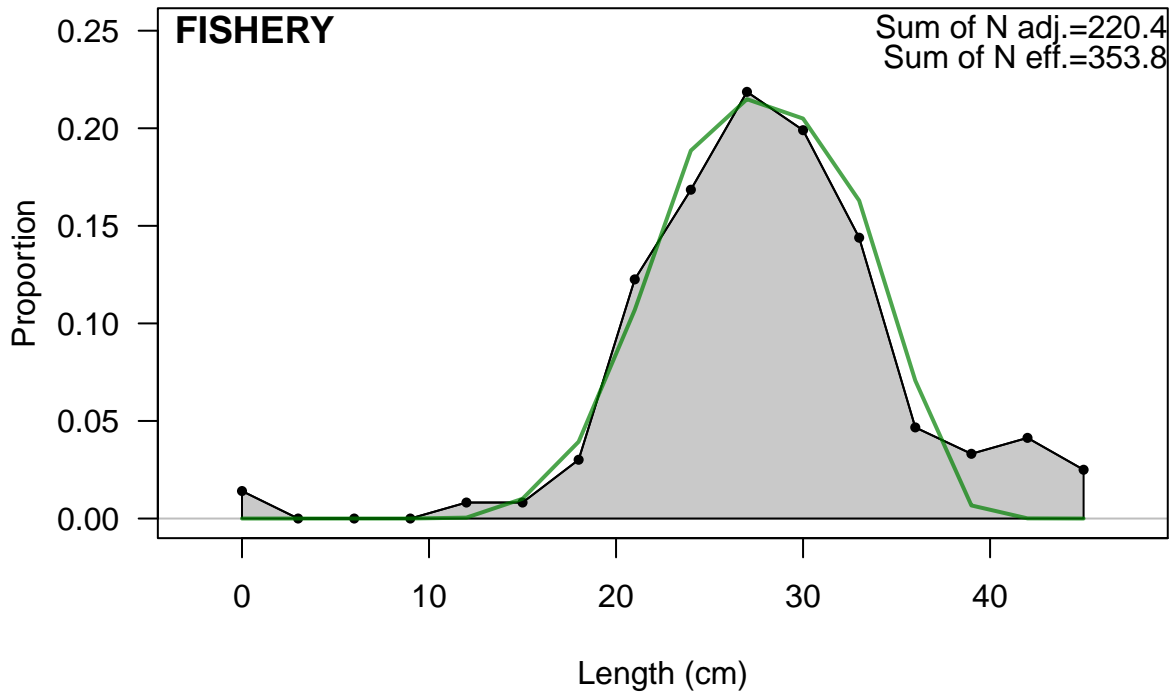


Length (cm)

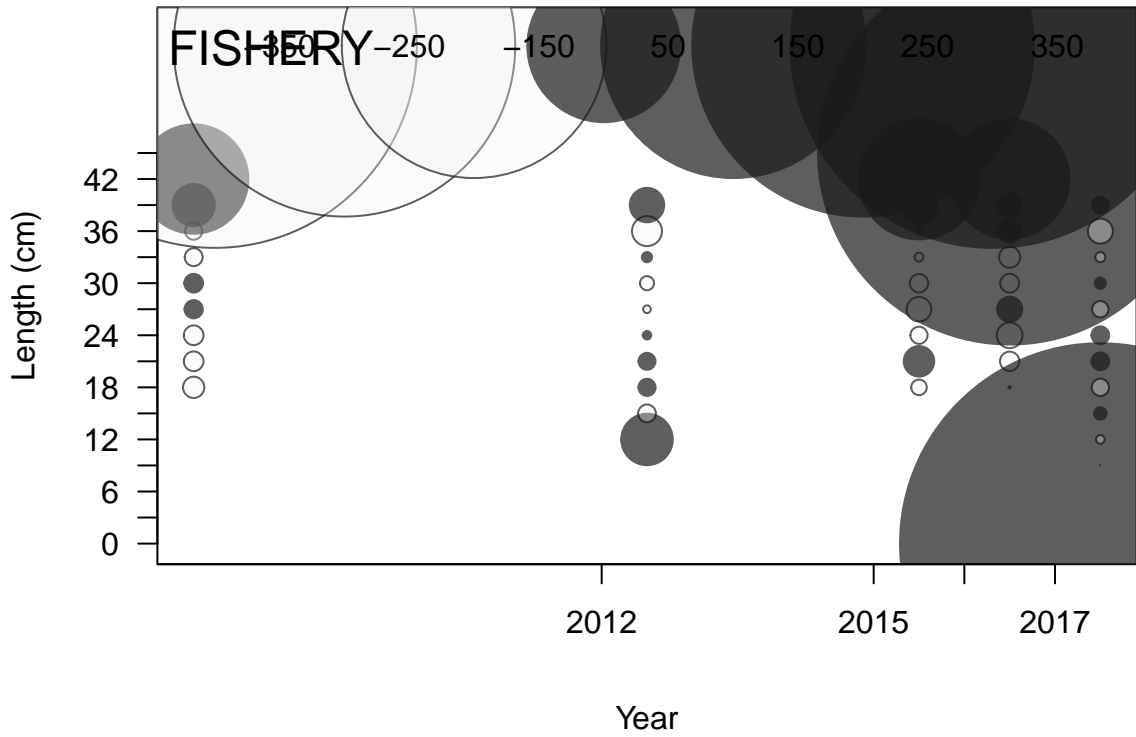


FISHERY (whole catch)

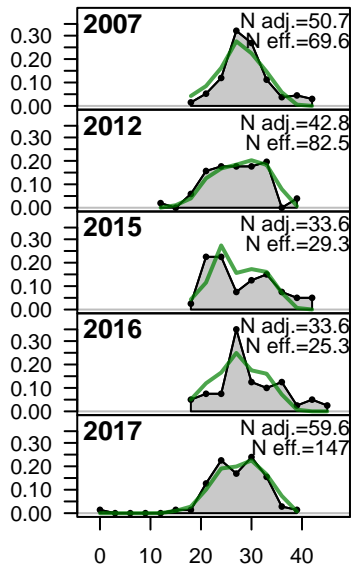




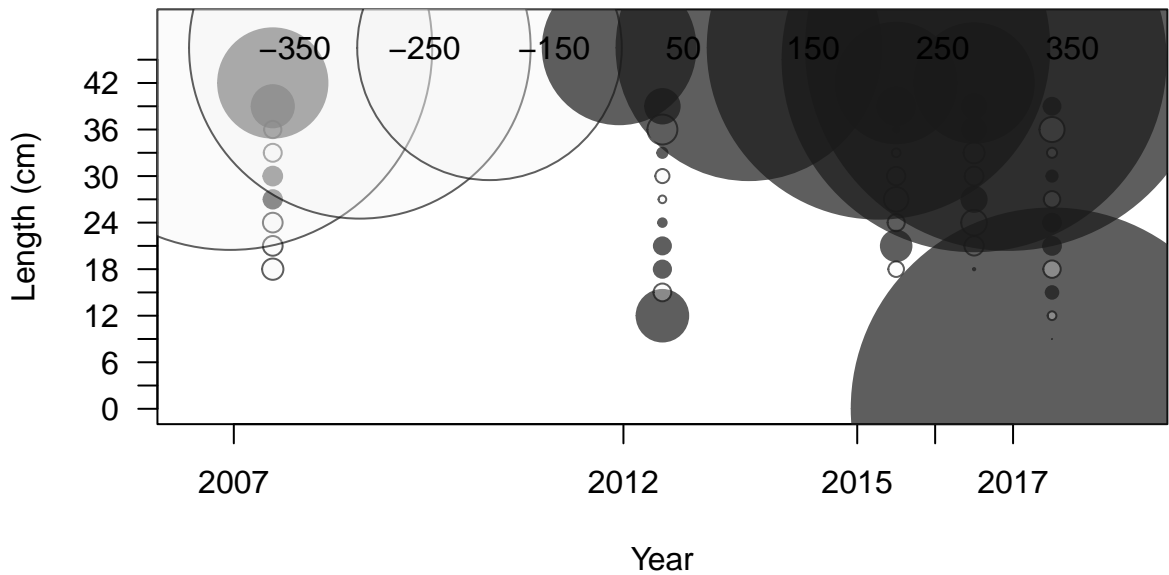




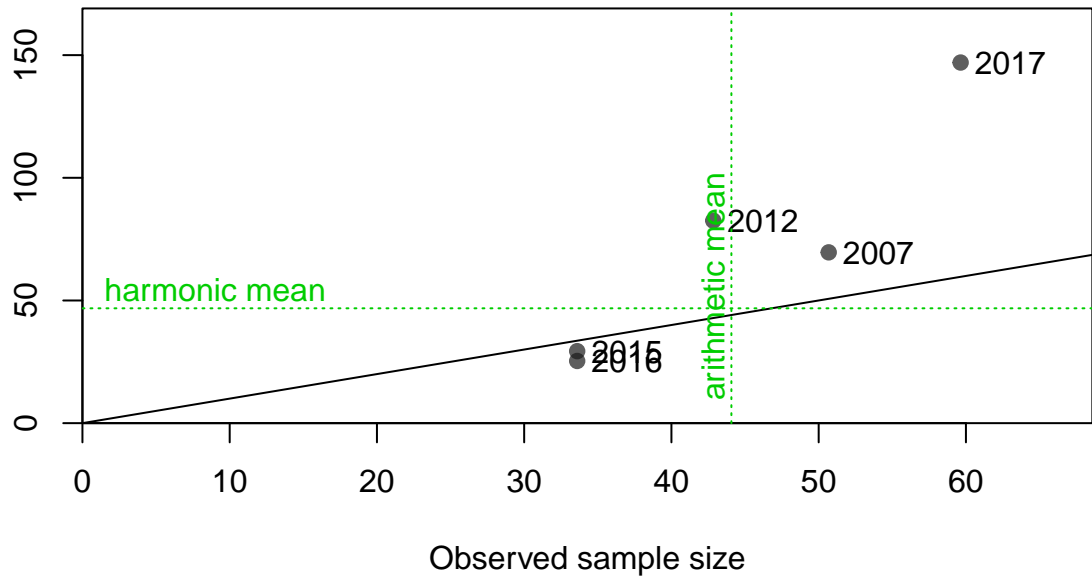
Proportion



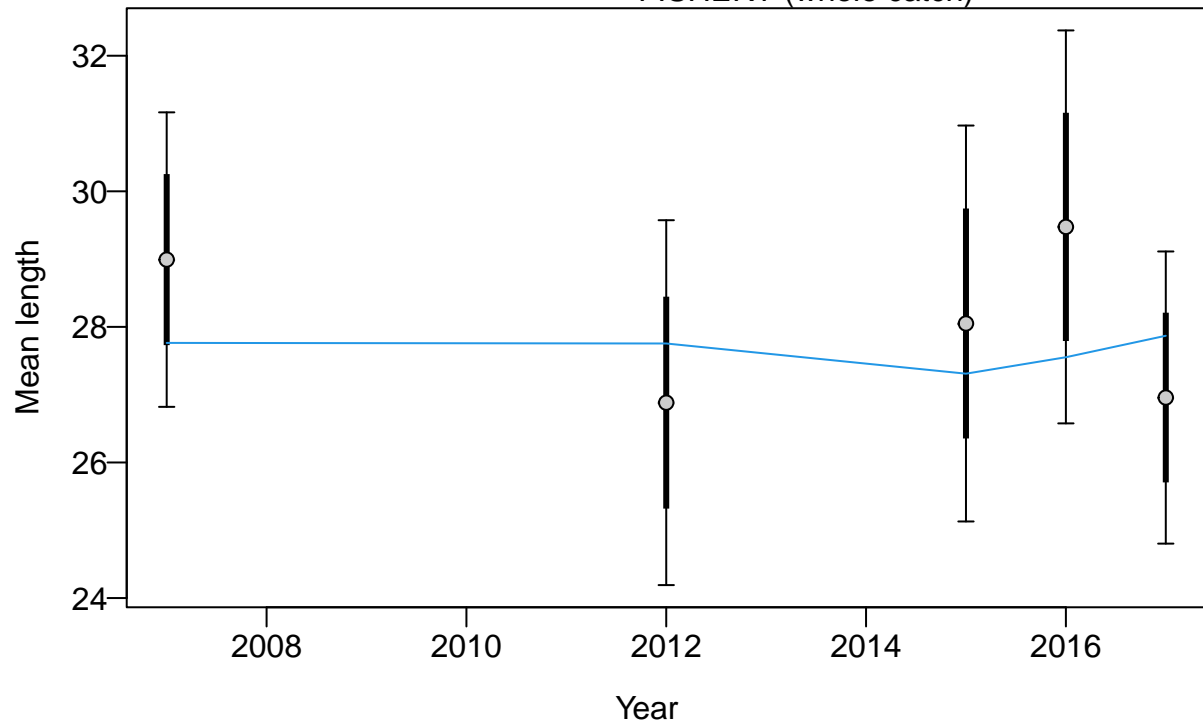
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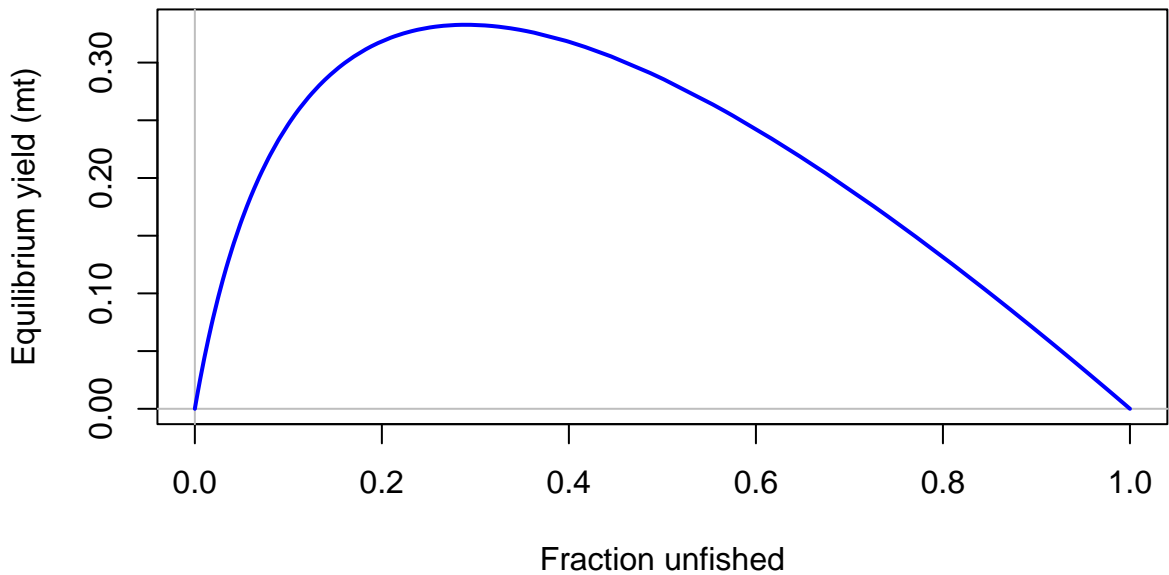


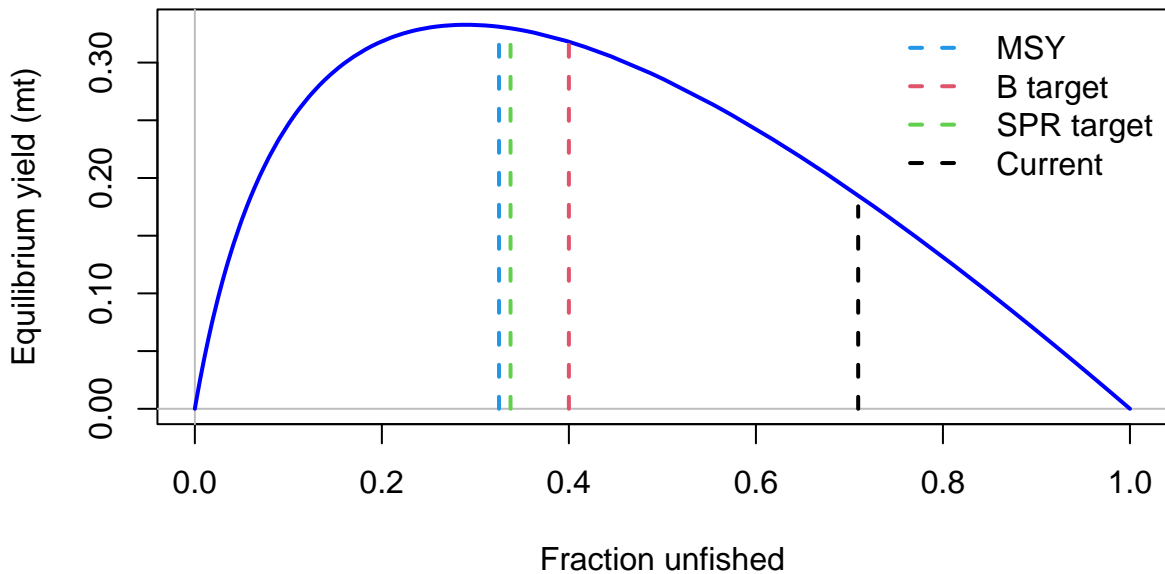
Effective sample size

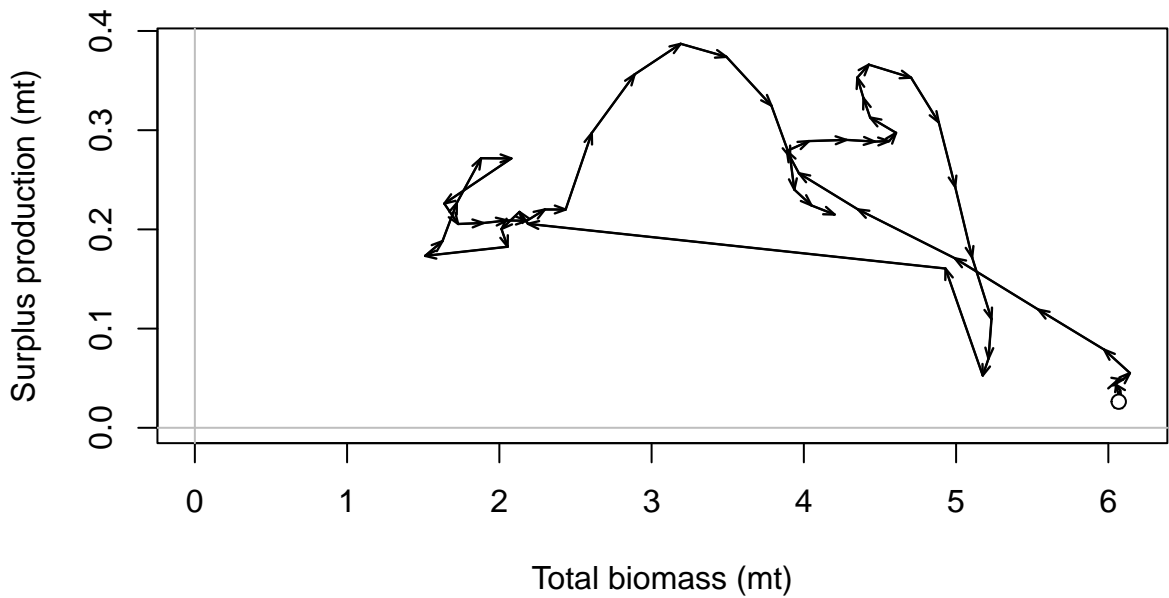


## FISHERY (whole catch)

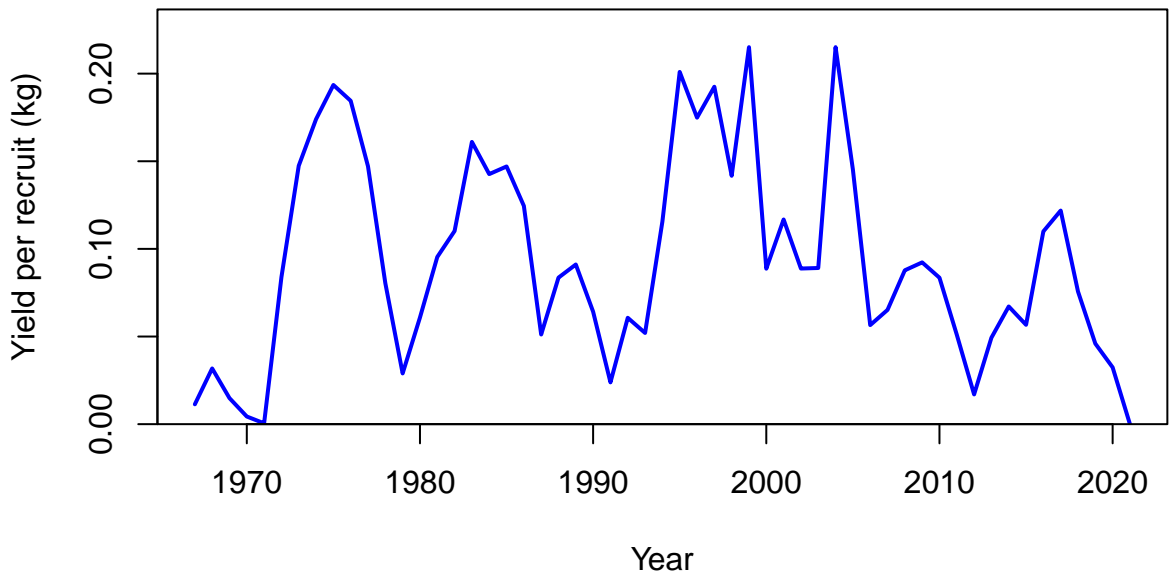


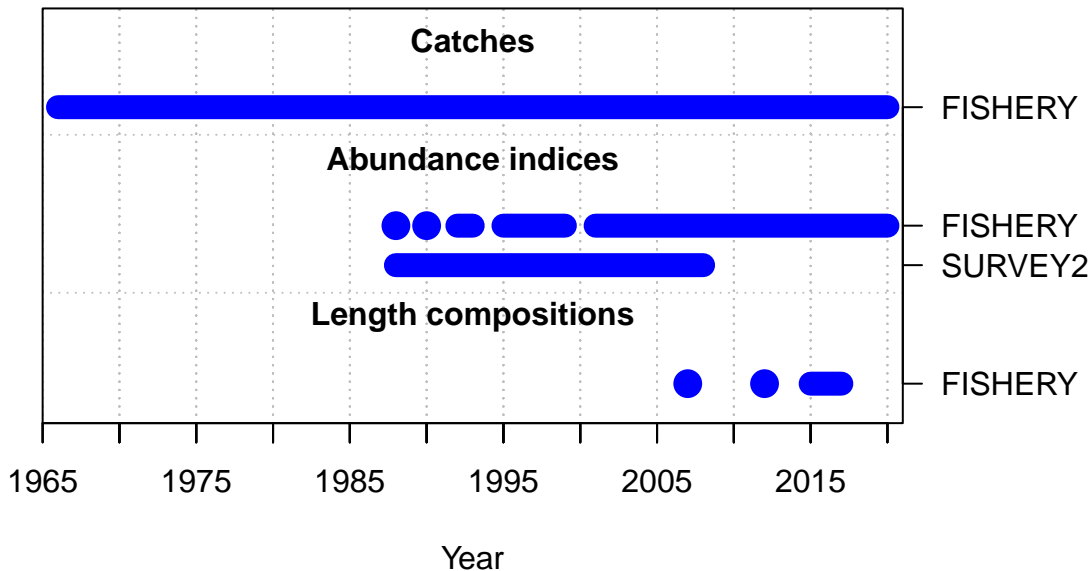


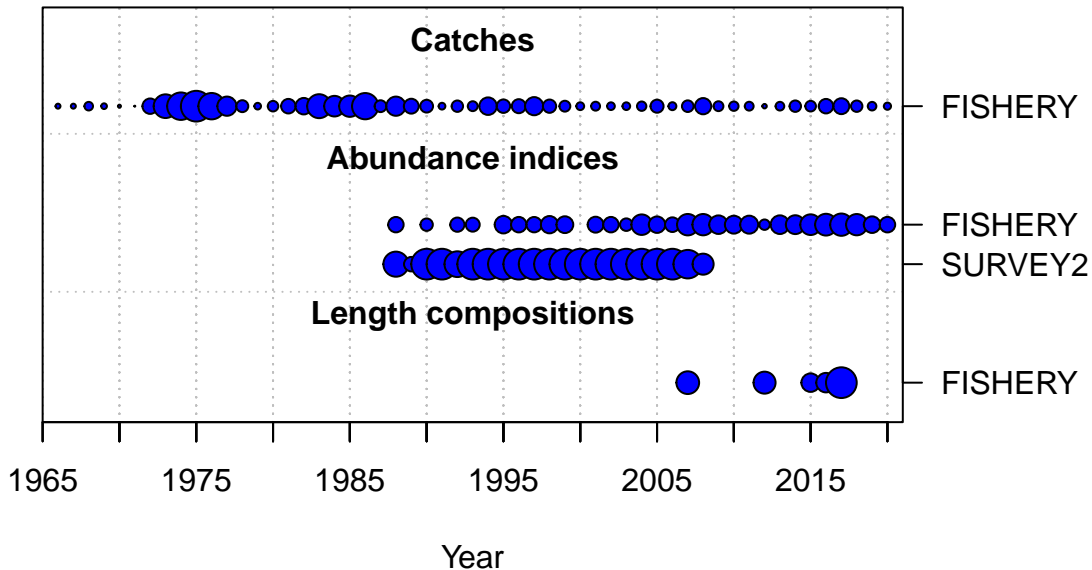










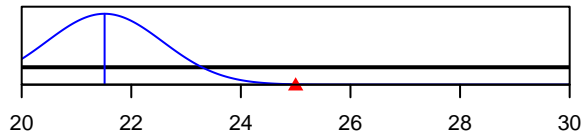


Density

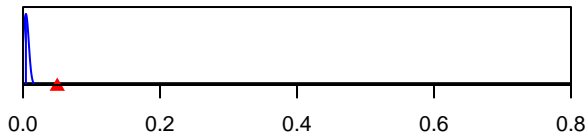
SR\_LN(R0)



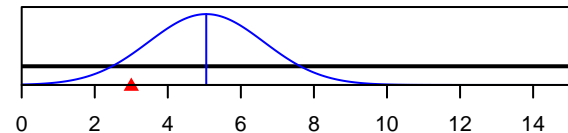
Size\_inflection\_FISHERY(1)



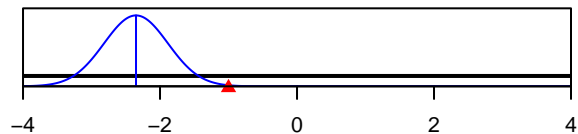
InitF\_seas\_1\_flt\_1FISHERY



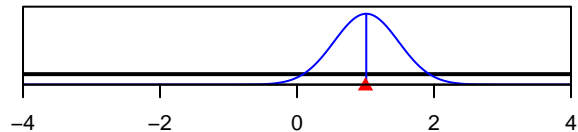
Size\_95%width\_FISHERY(1)



LnQ\_base\_FISHERY(1)



LnQ\_base\_SURVEY2(2)



Parameter value