

Plots created using the 'r4ss' package in R

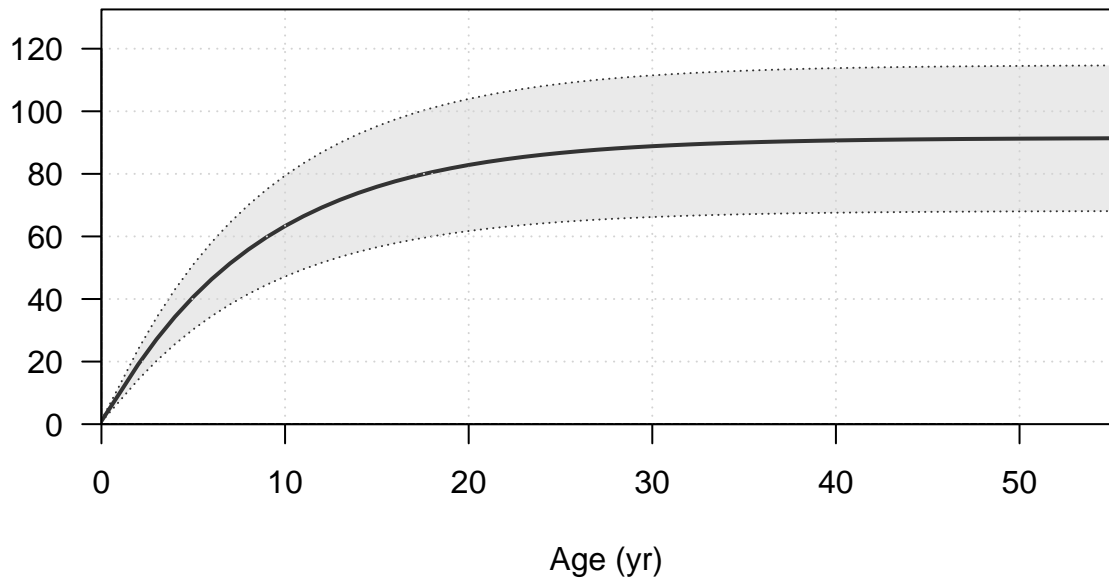
Stock Synthesis version: 3.30.19.0

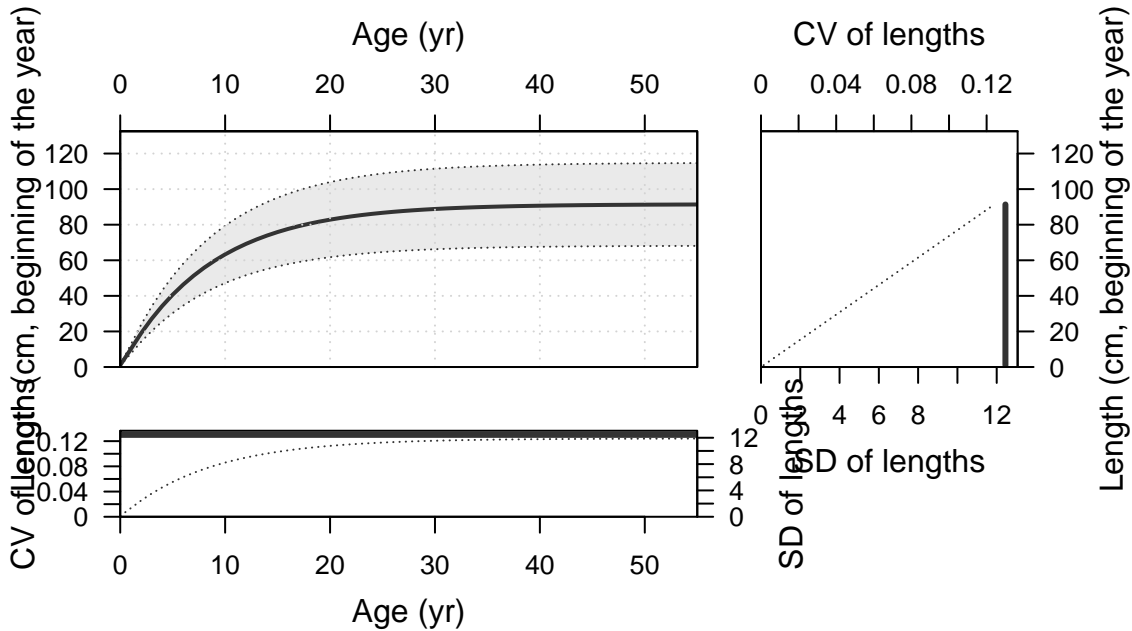
StartTime: Fri Jul 01 08:01:38 2022

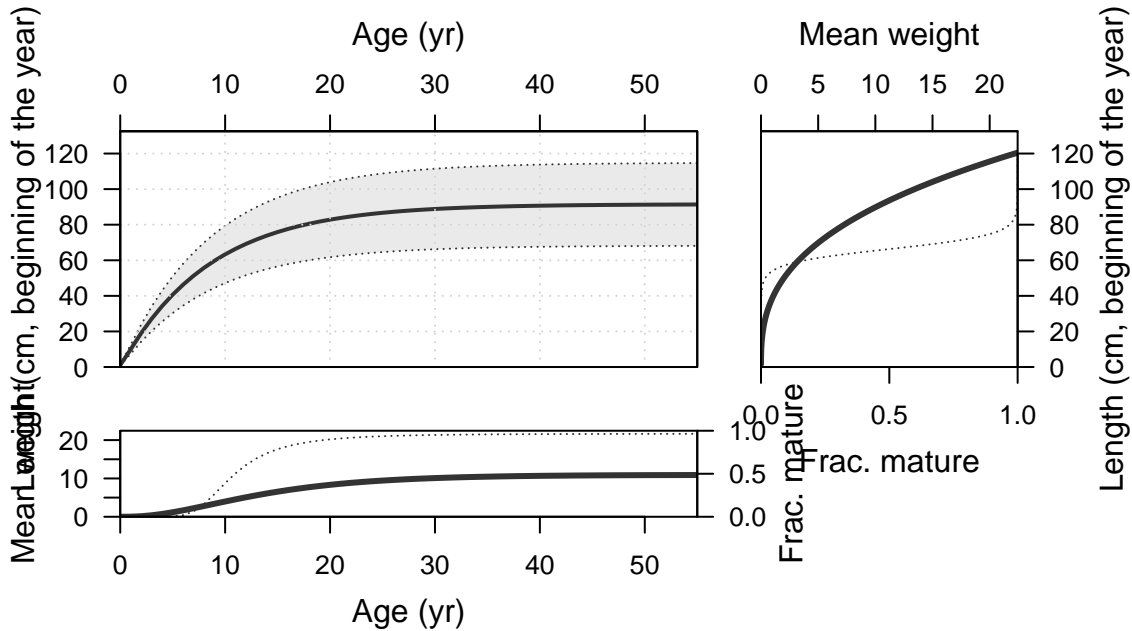
Data\_File: data.ss

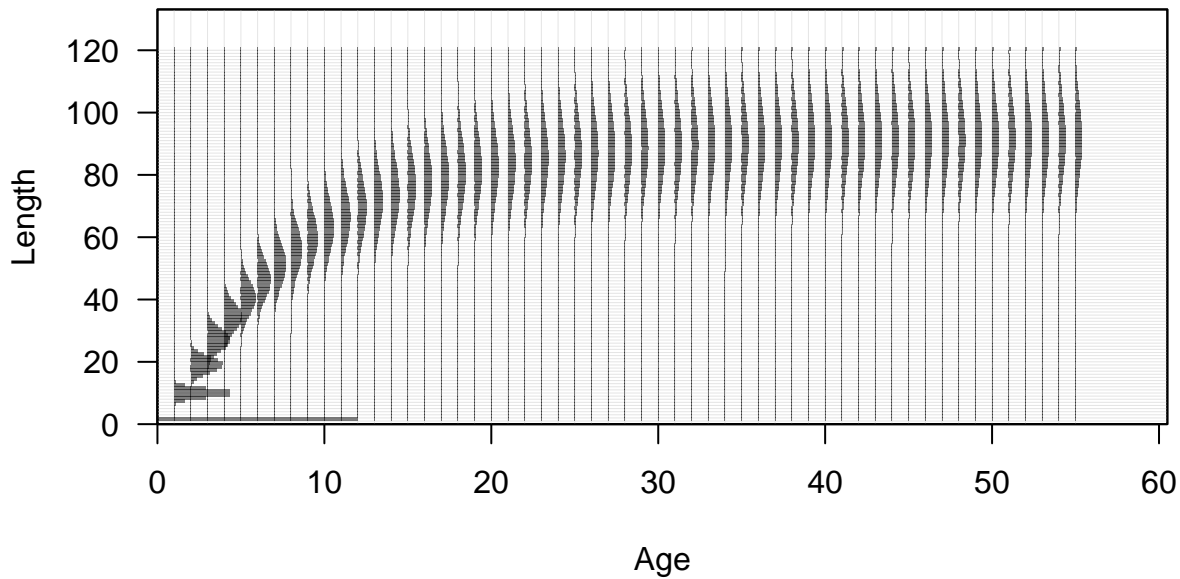
Control\_File: control.ss

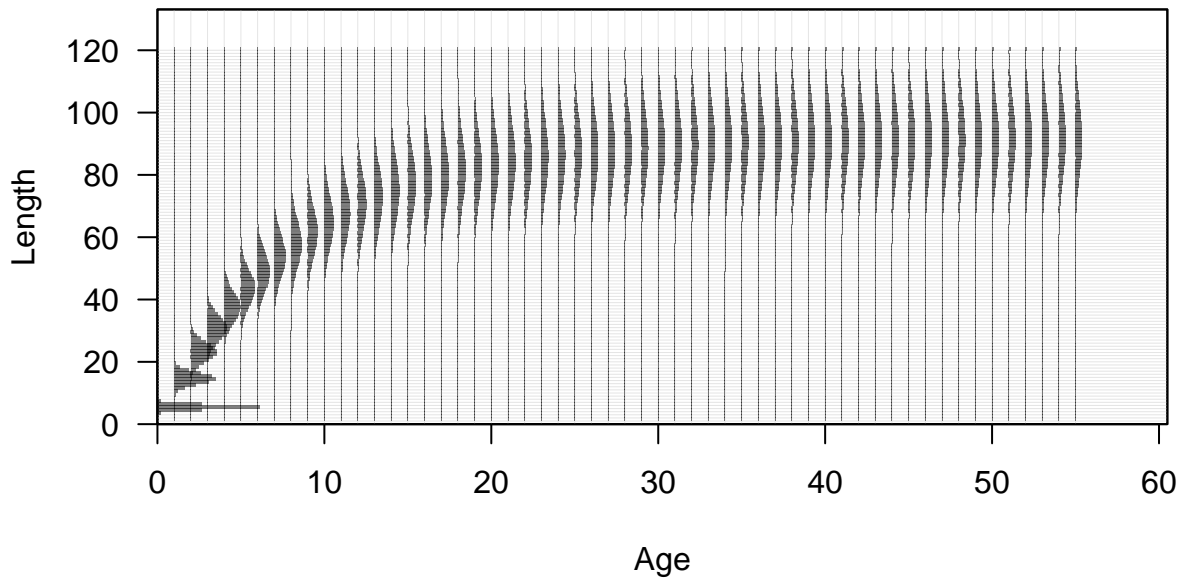
Length (cm, beginning of the year)



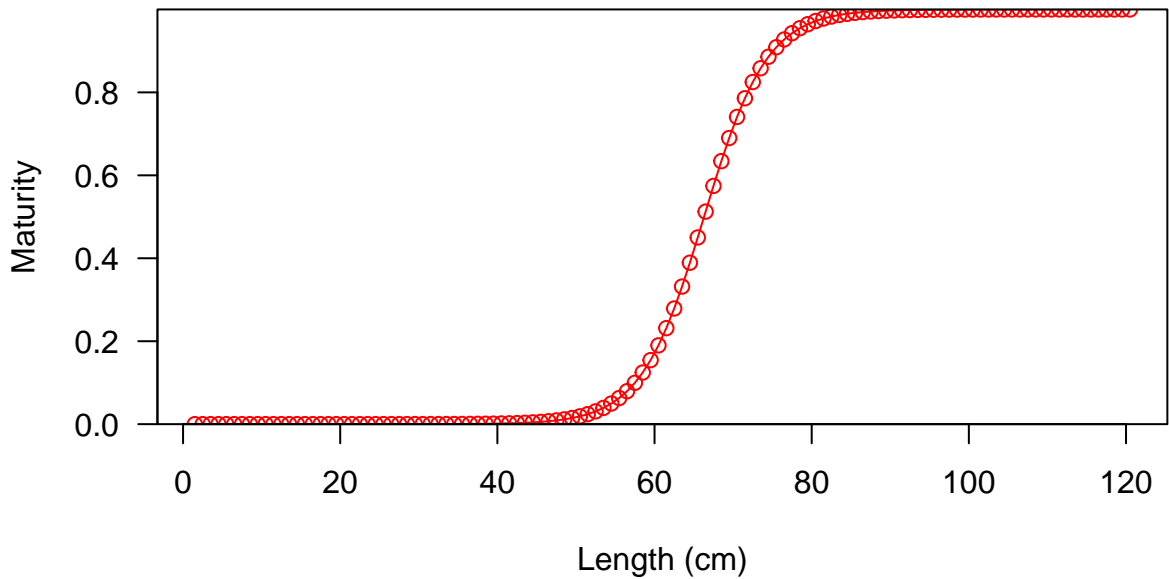












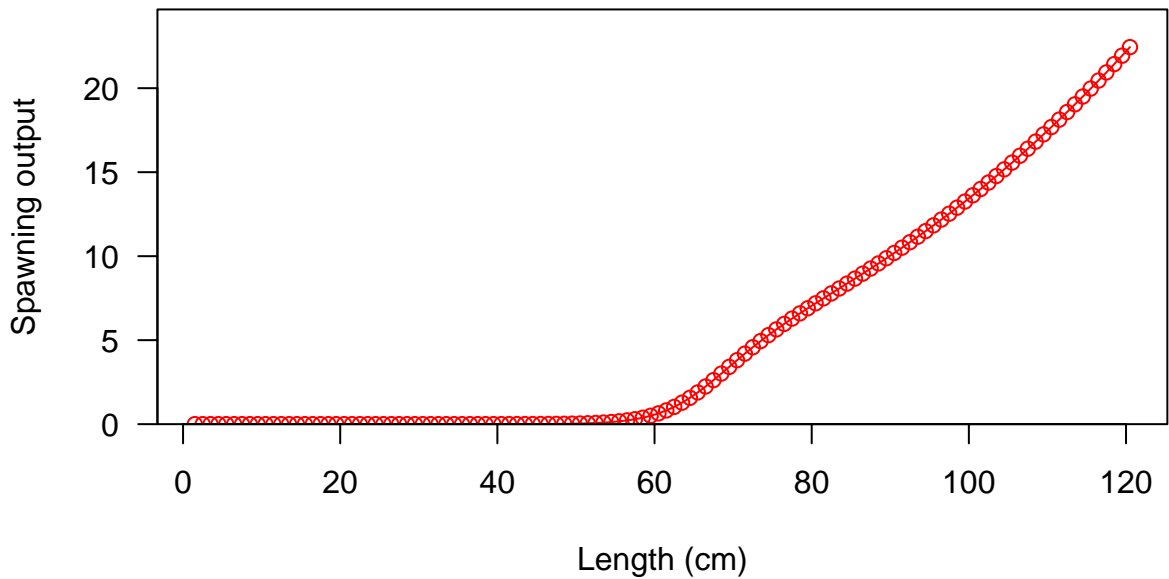




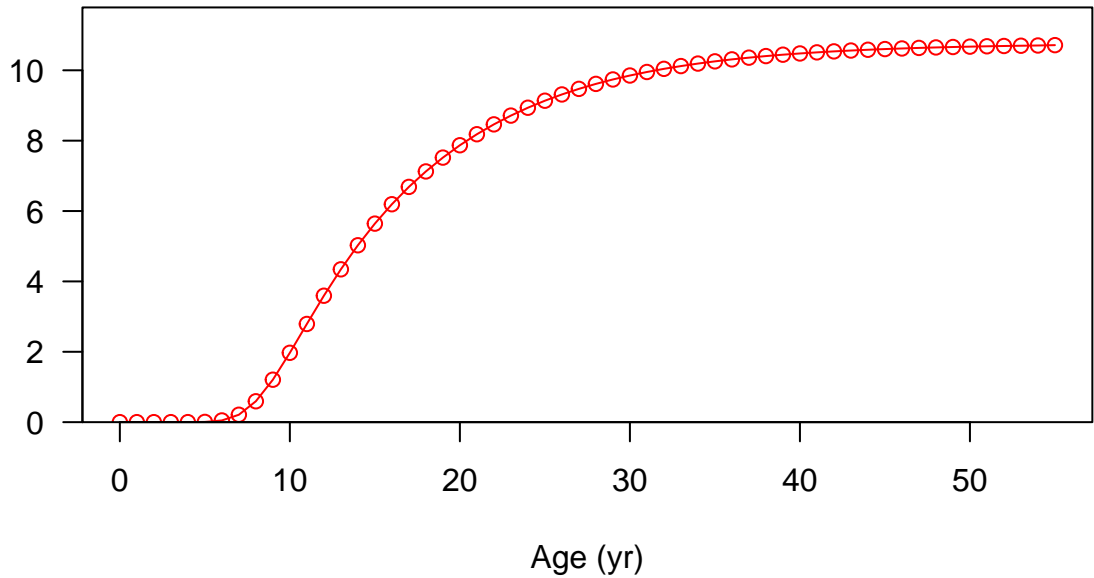


Fecundity

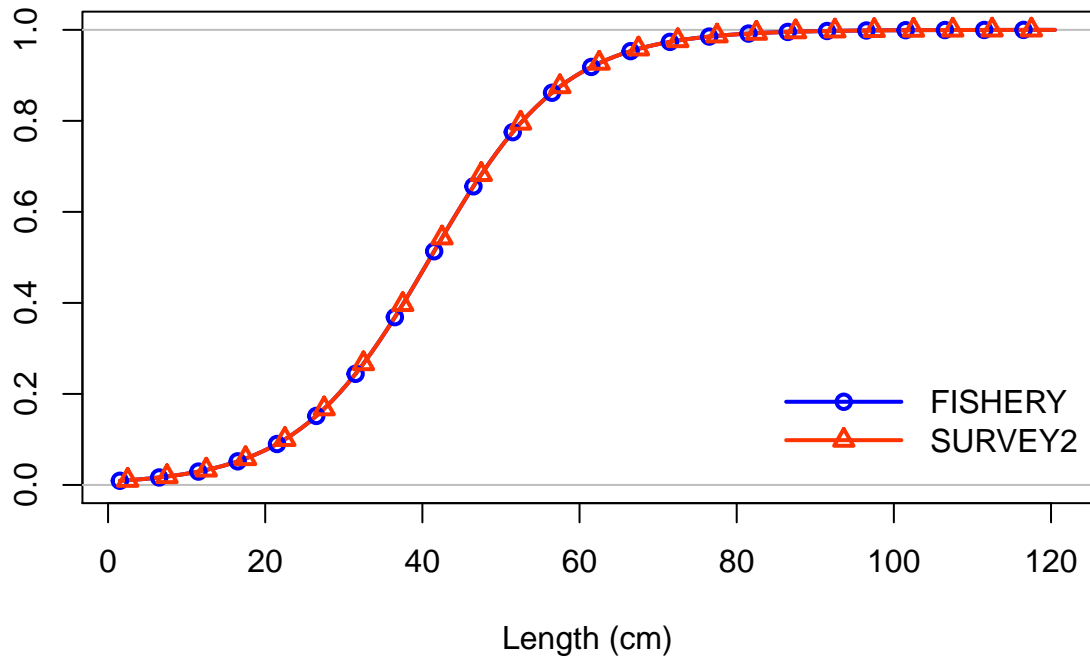




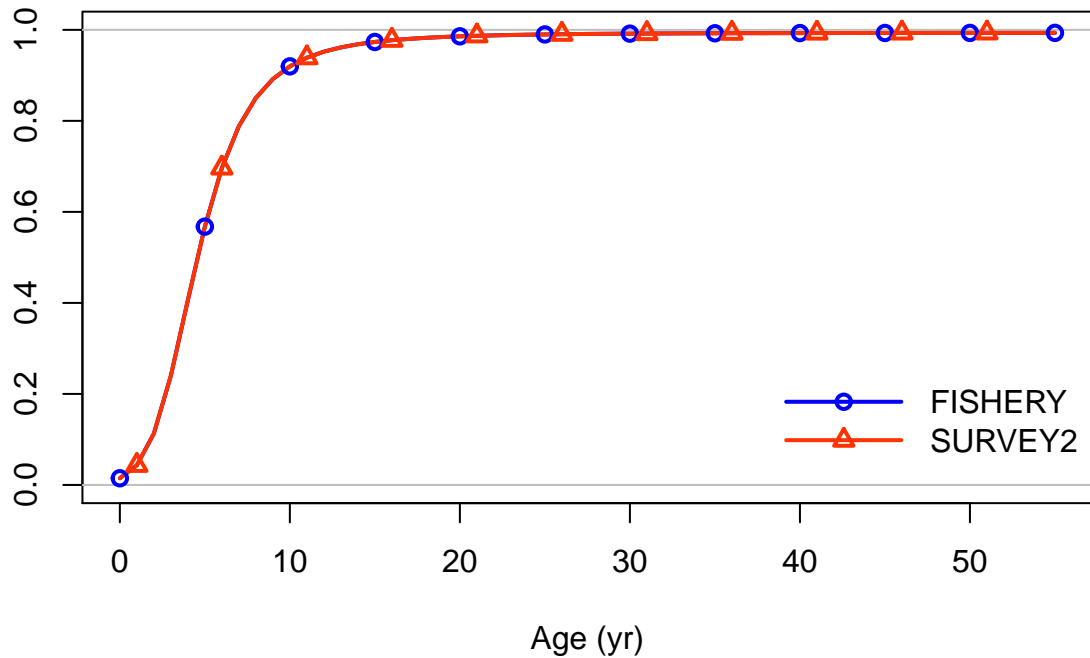
Spawning output



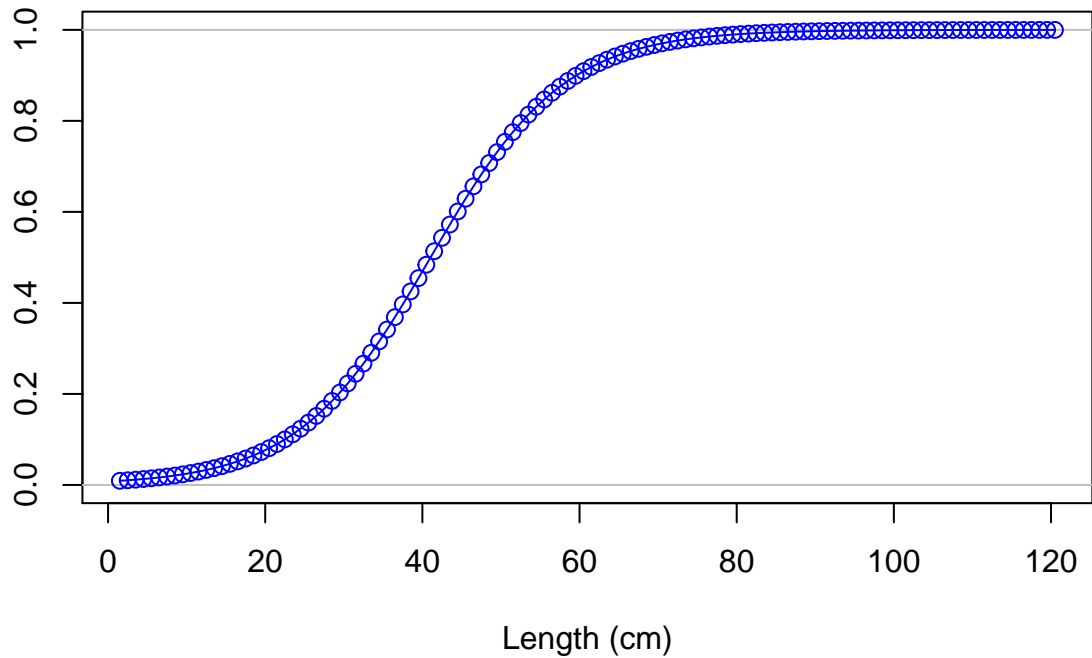
Selectivity



Selectivity

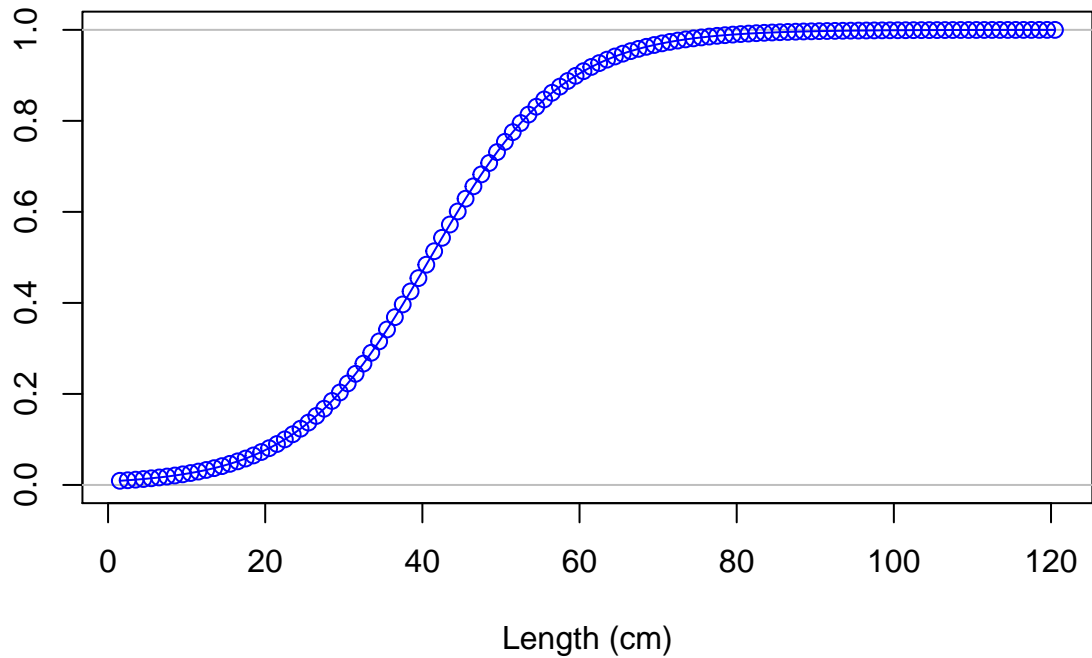


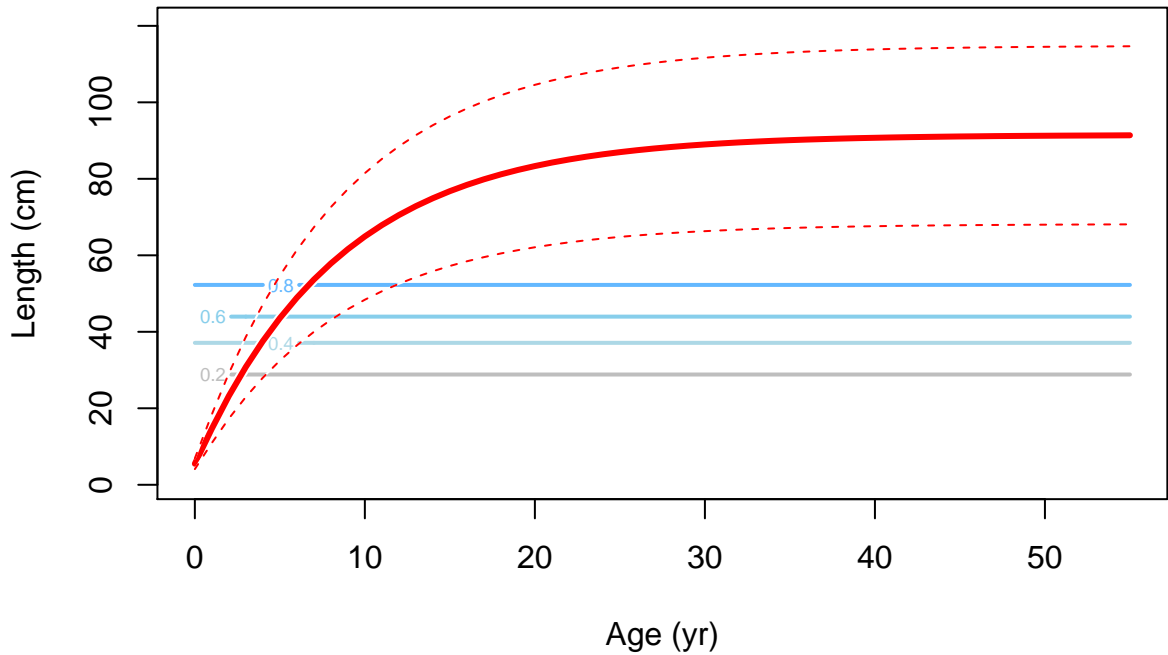
Selectivity

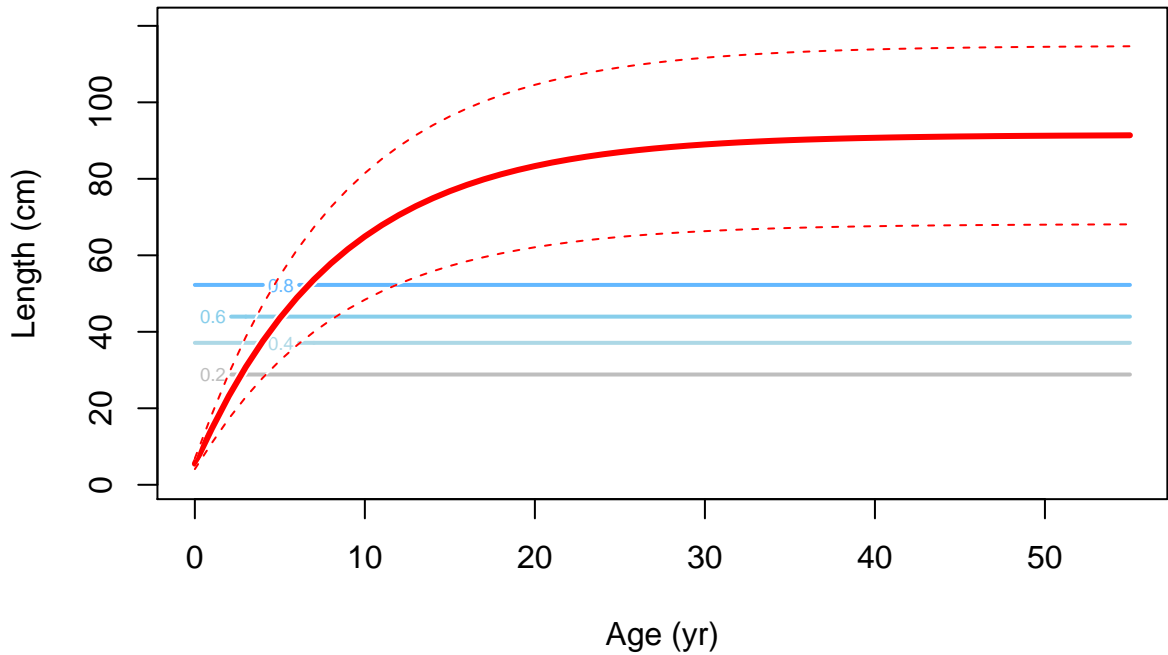




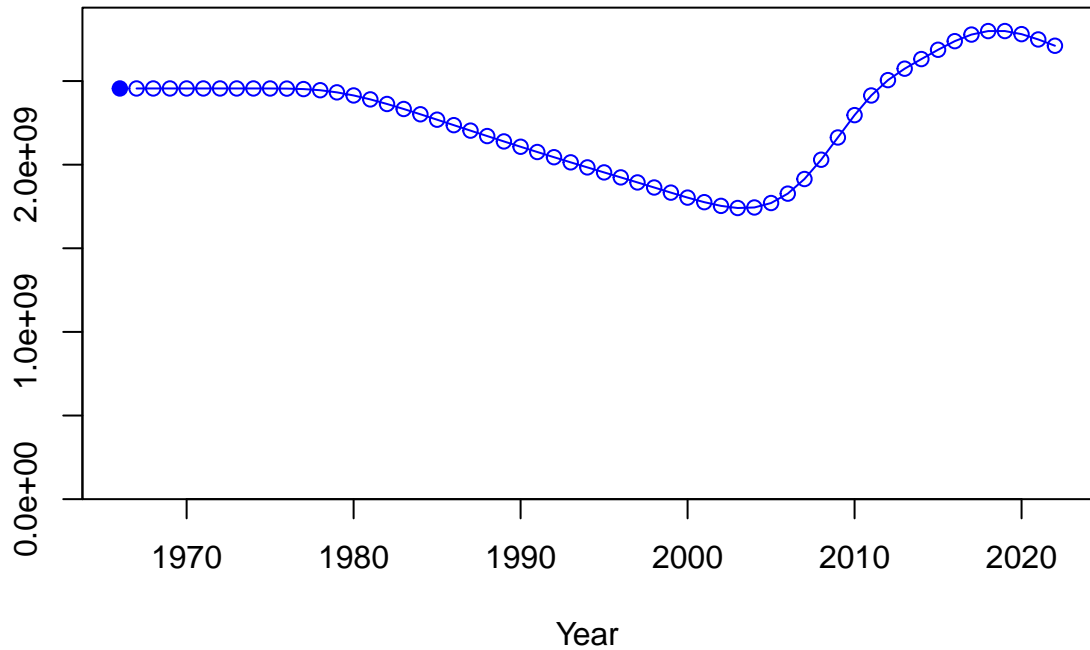
Selectivity



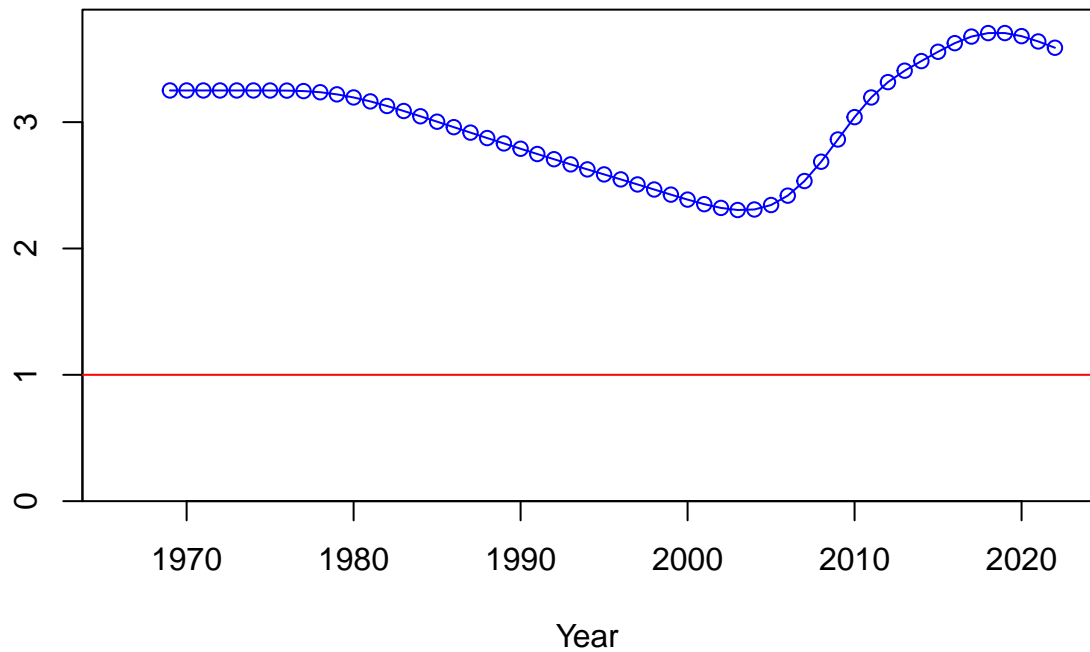


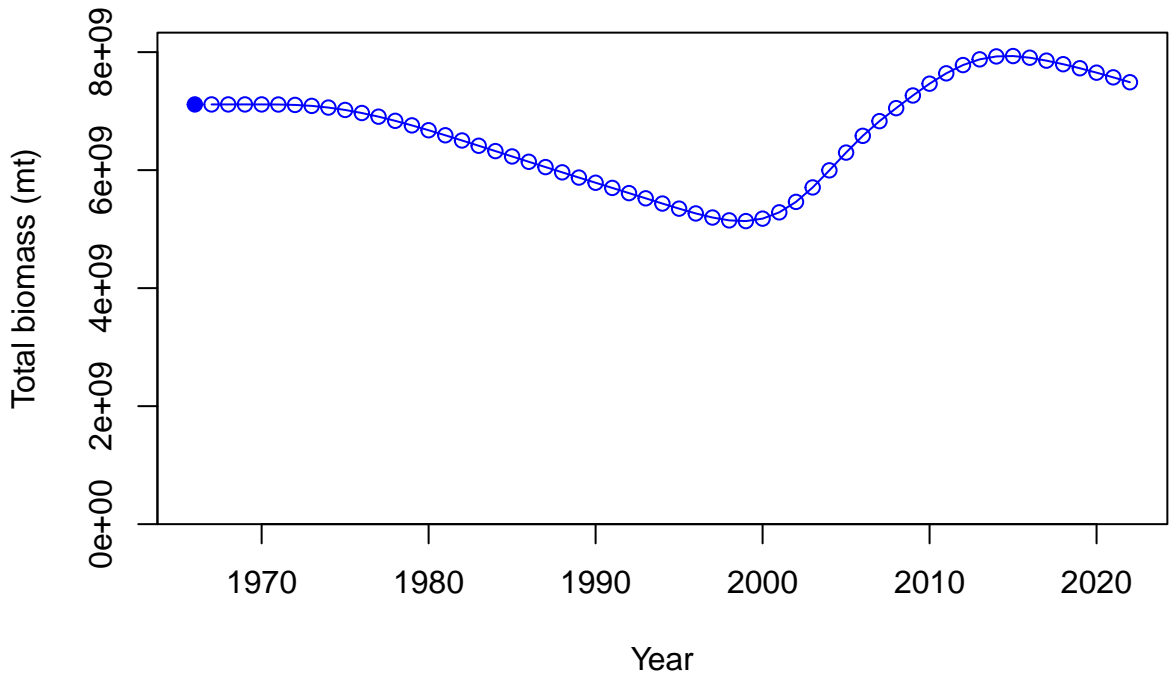


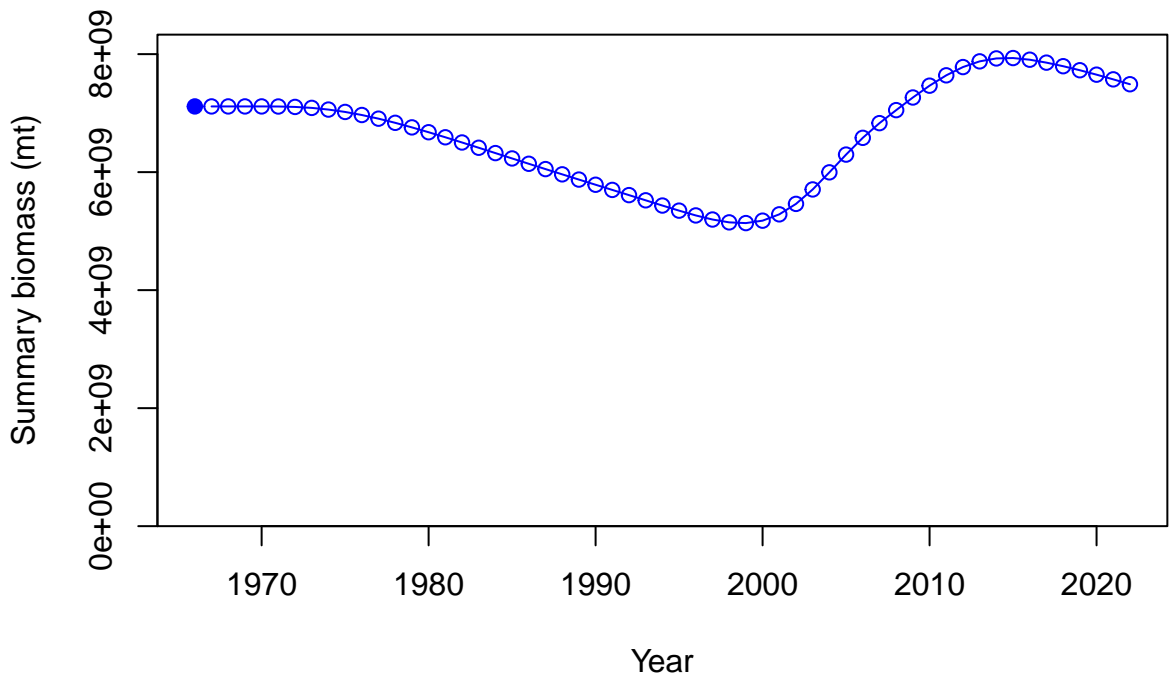
Spawning biomass (mt)

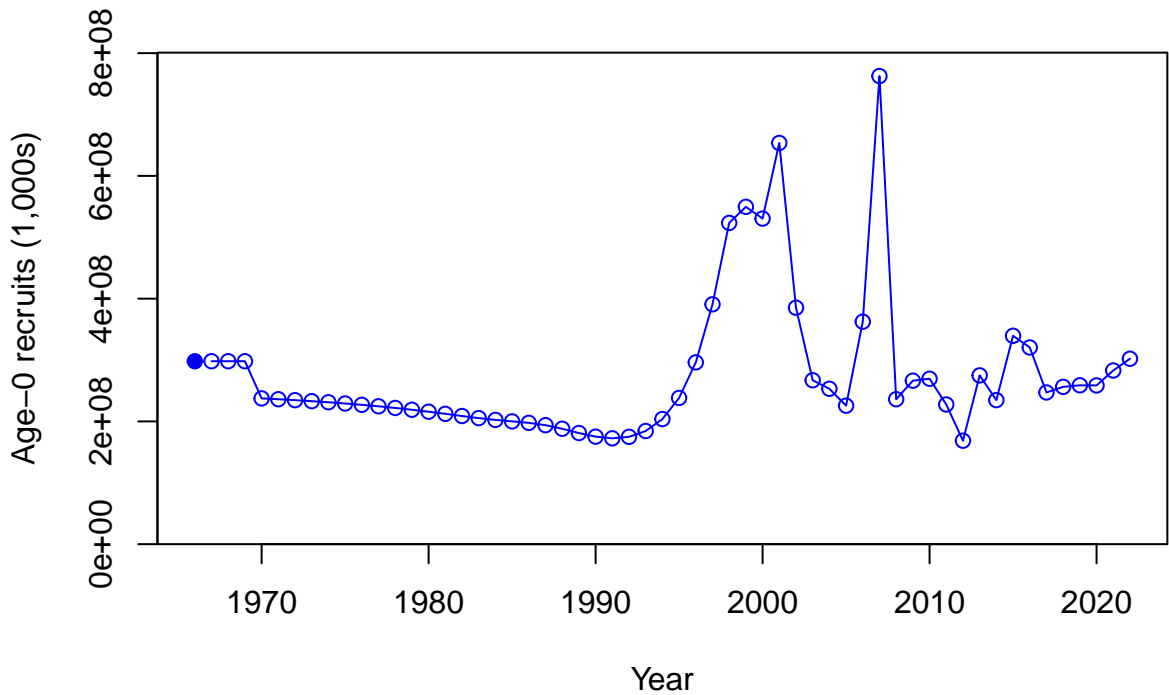


Relative spawning biomass:  $B/B_{MSY}$



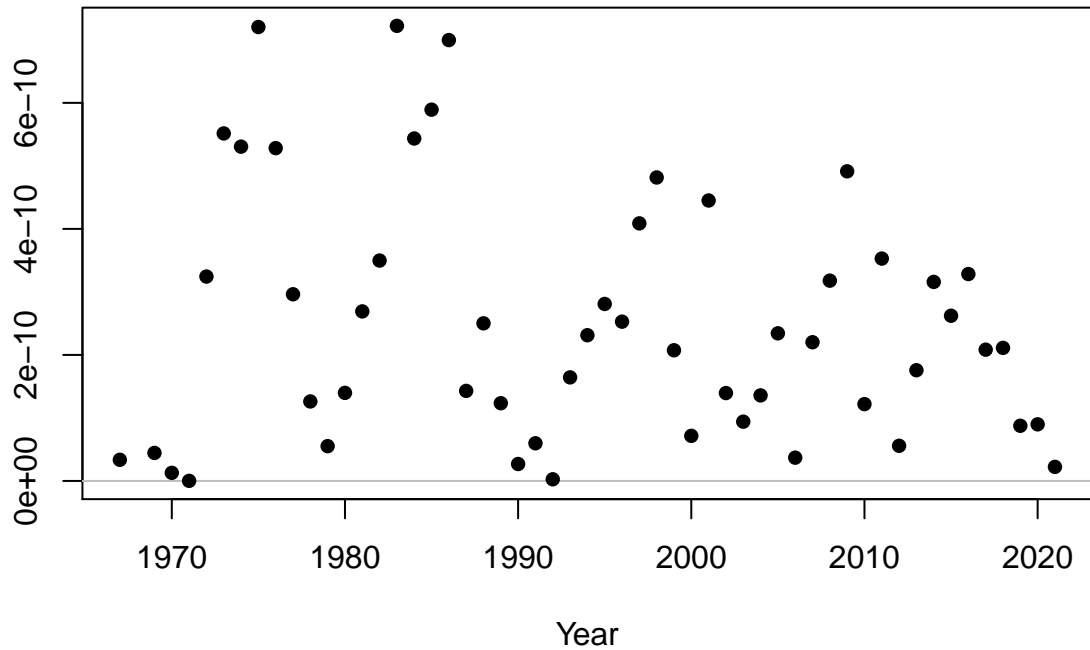


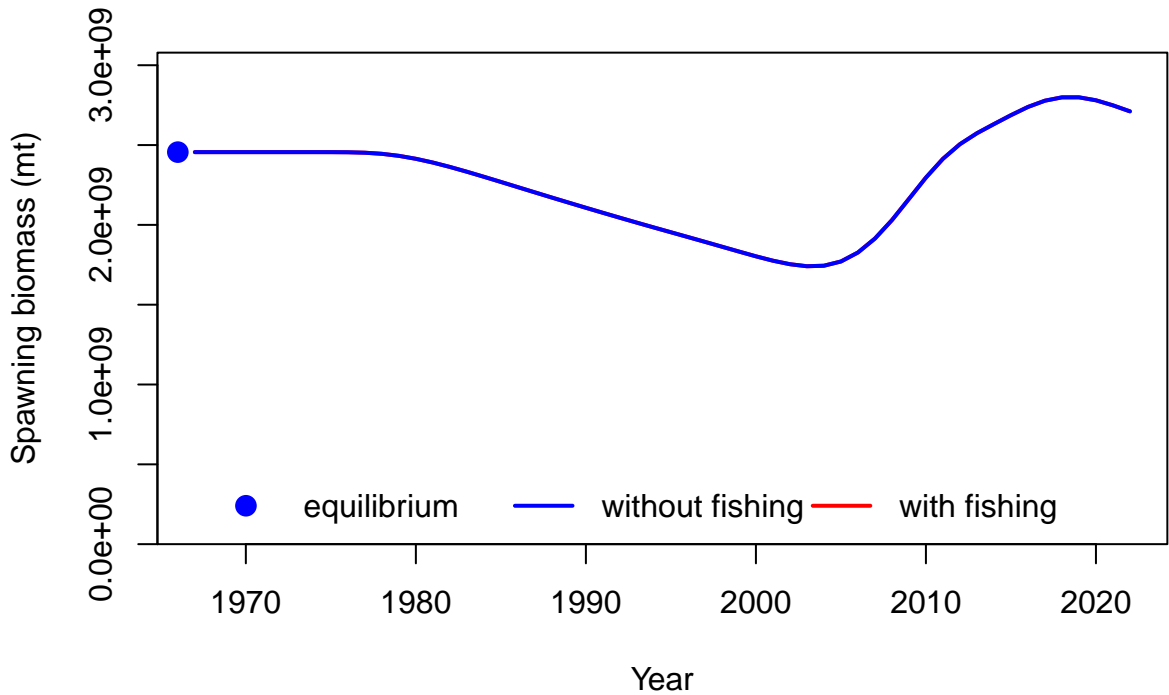




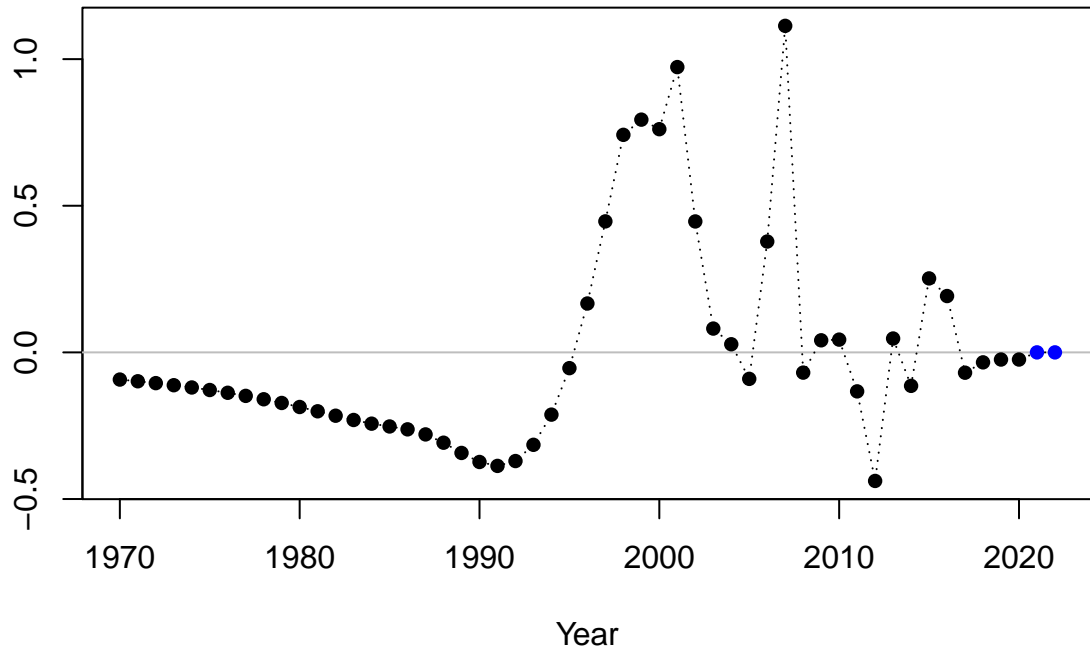


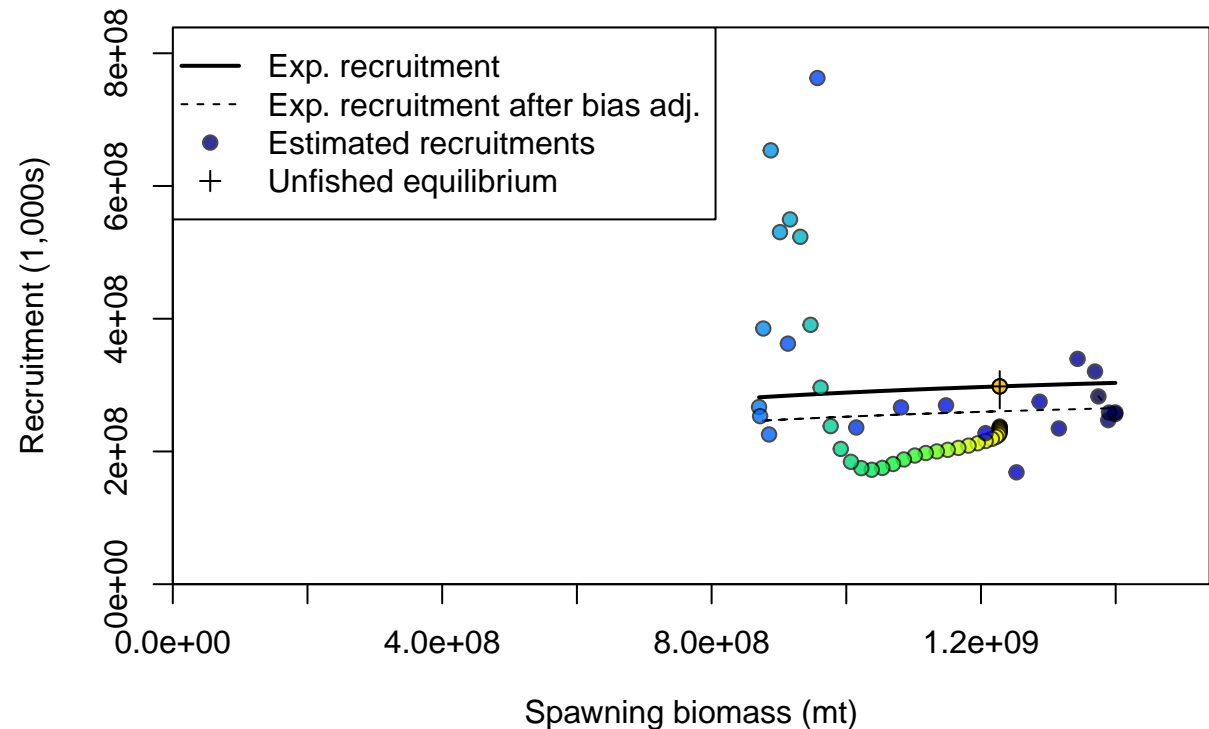
Summary Fishing Mortality

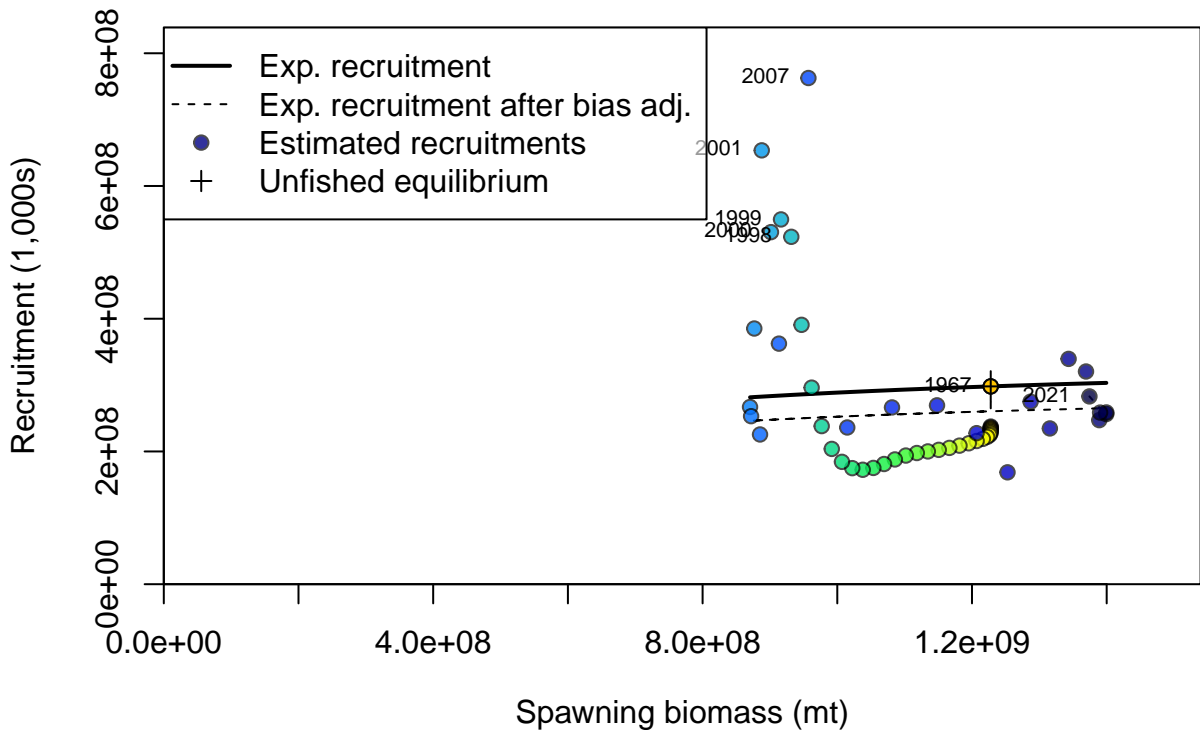




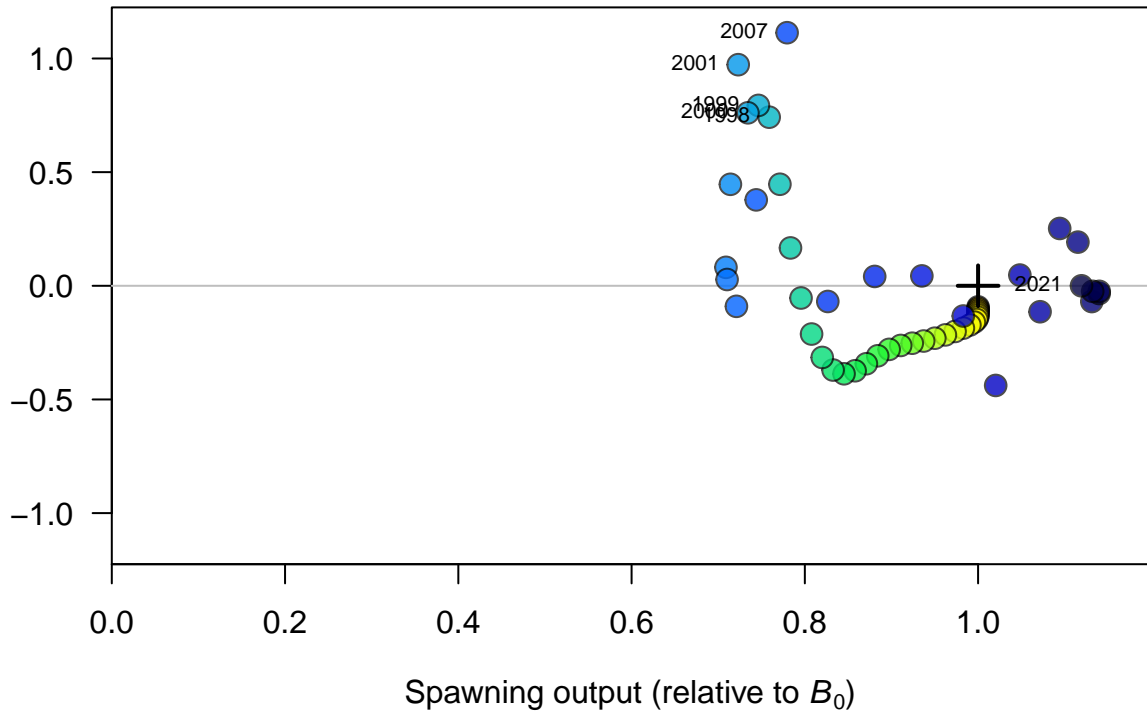
Log recruitment deviation

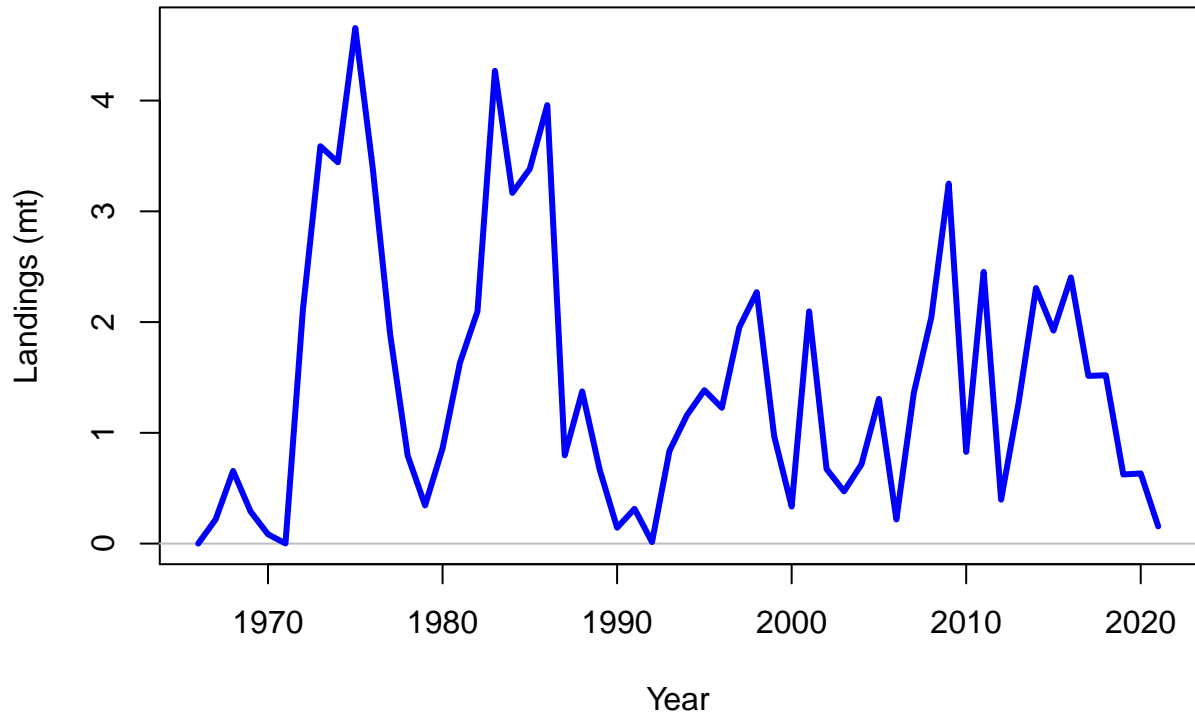


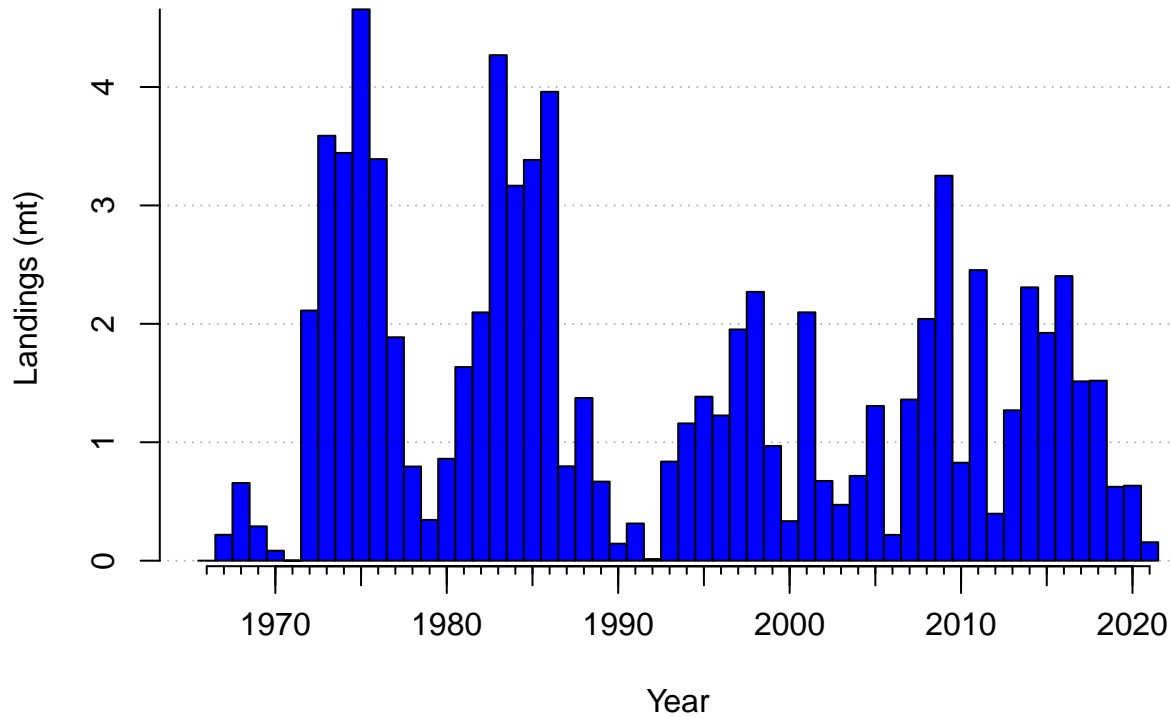




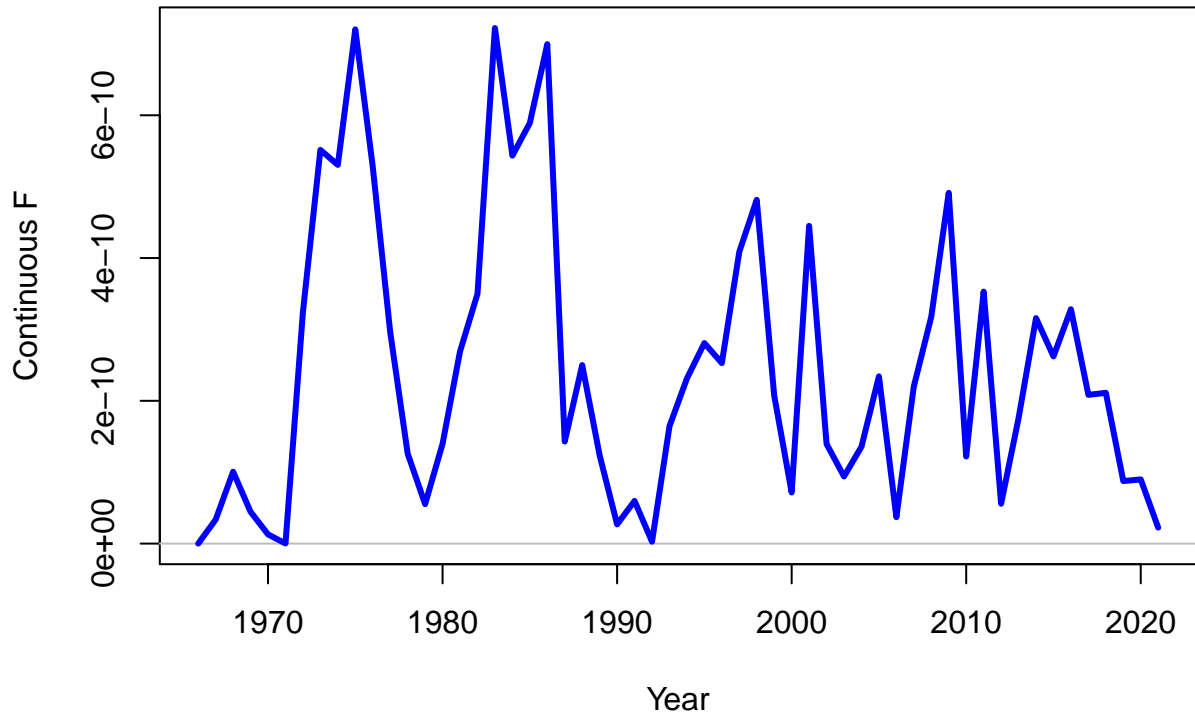
Log recruitment deviation



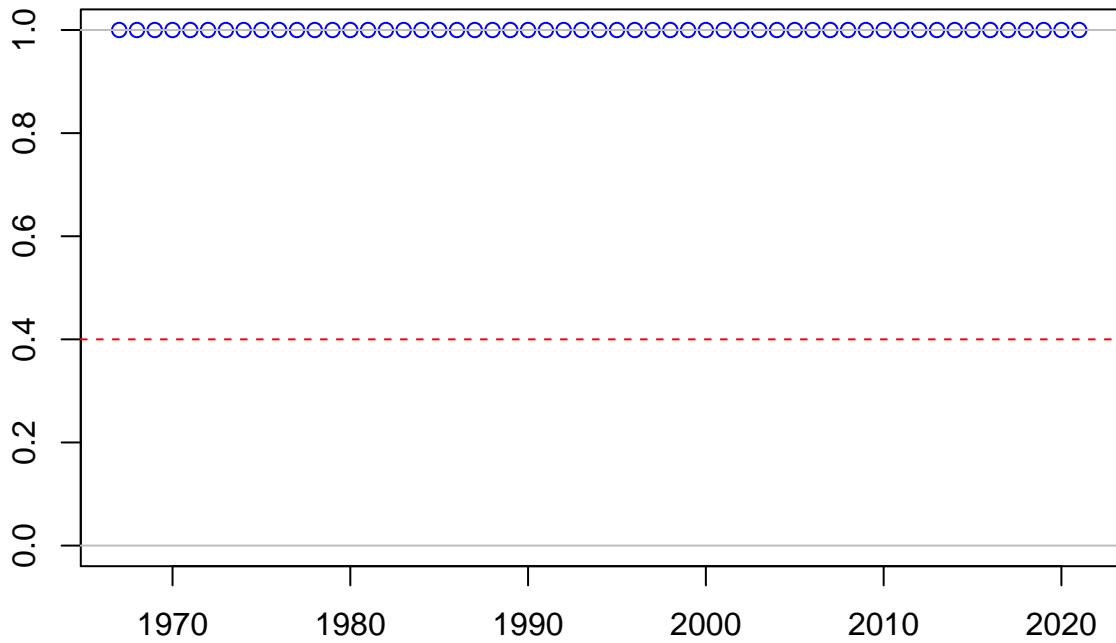




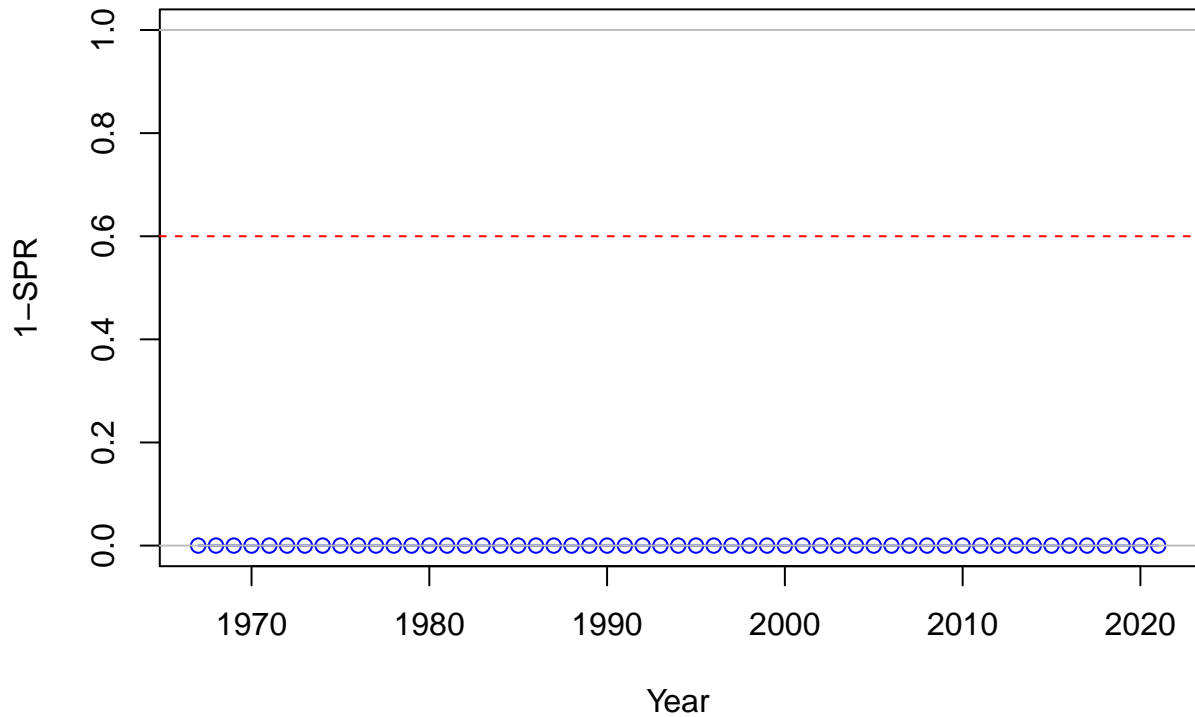




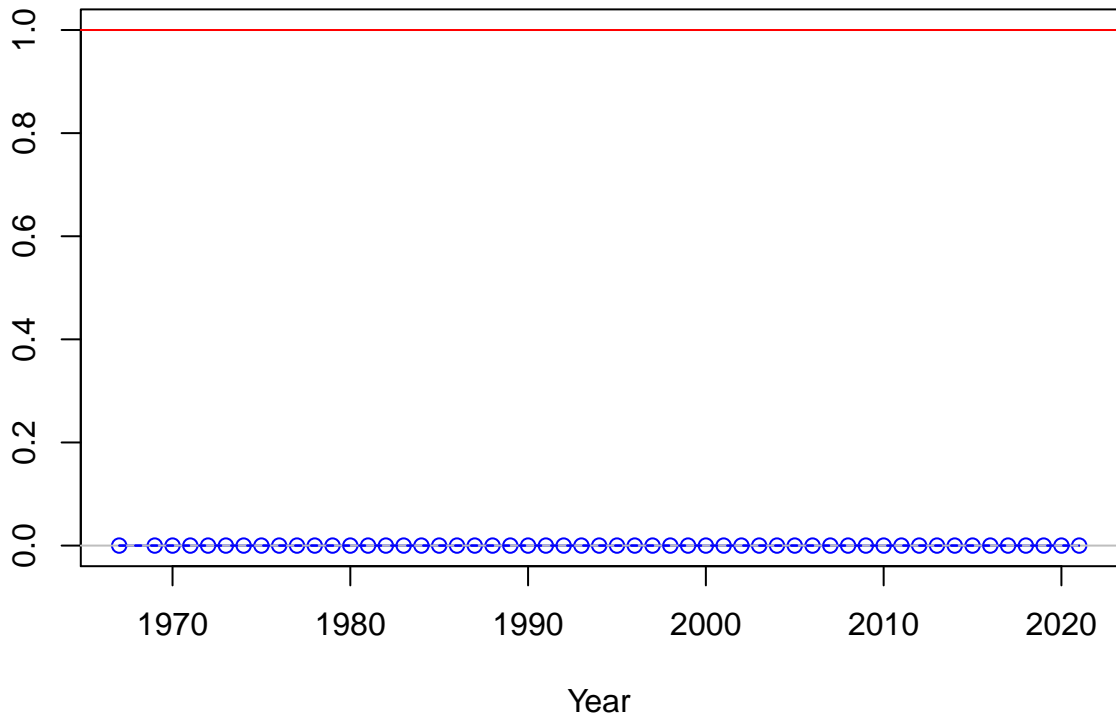
SPR



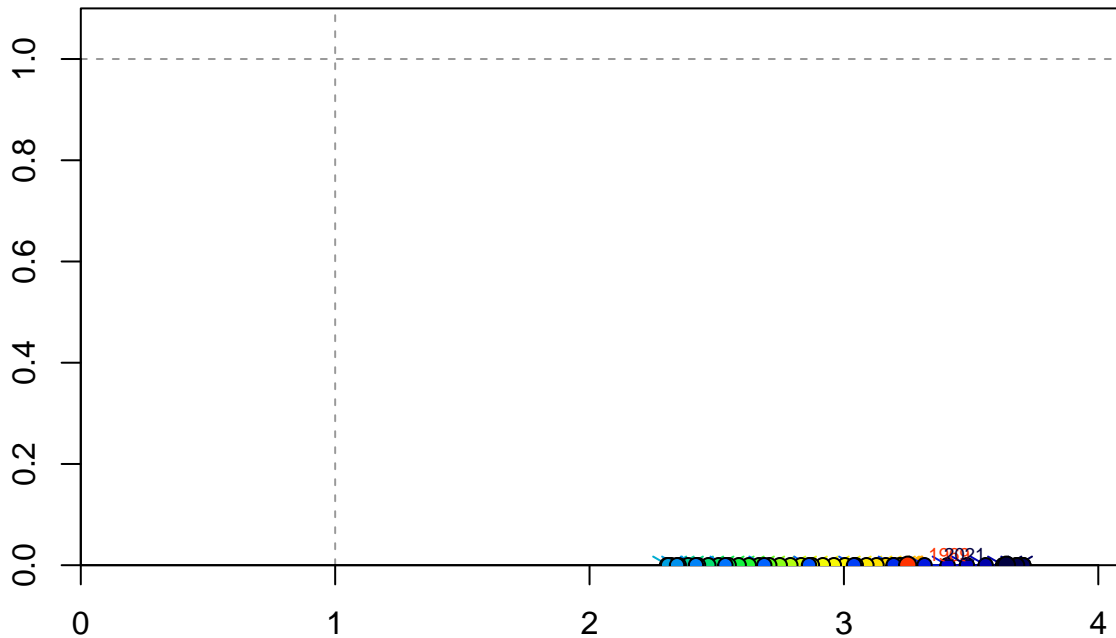
Year



Fishing intensity: 1-SPR

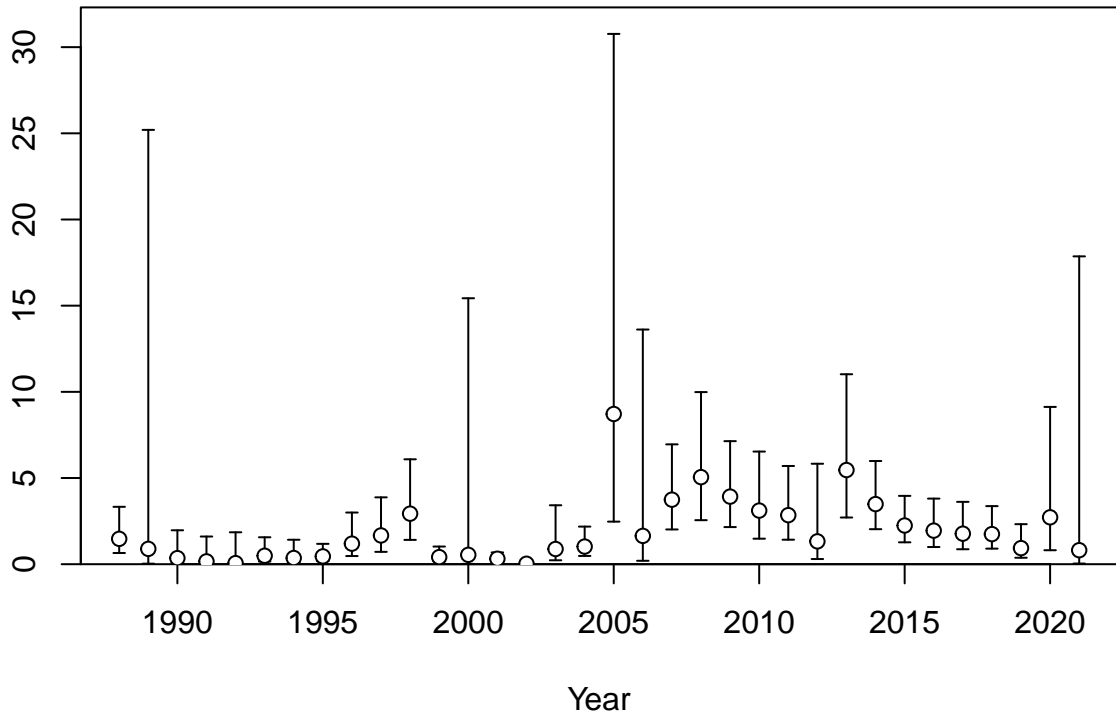


Fishing intensity: 1-SPR

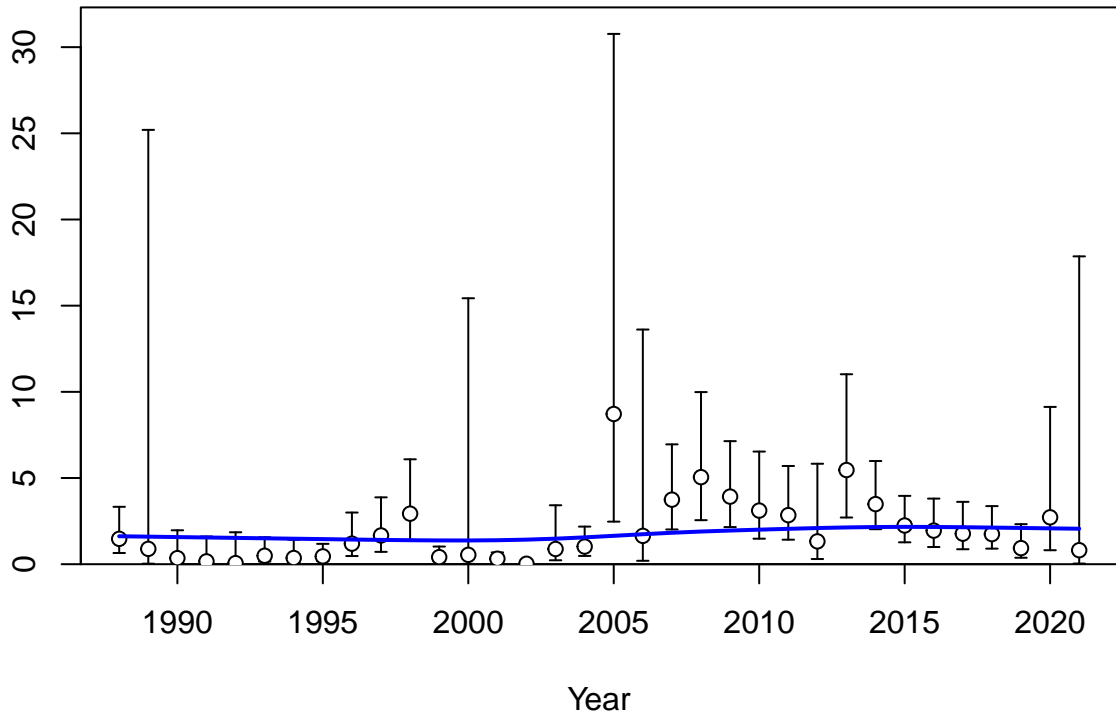


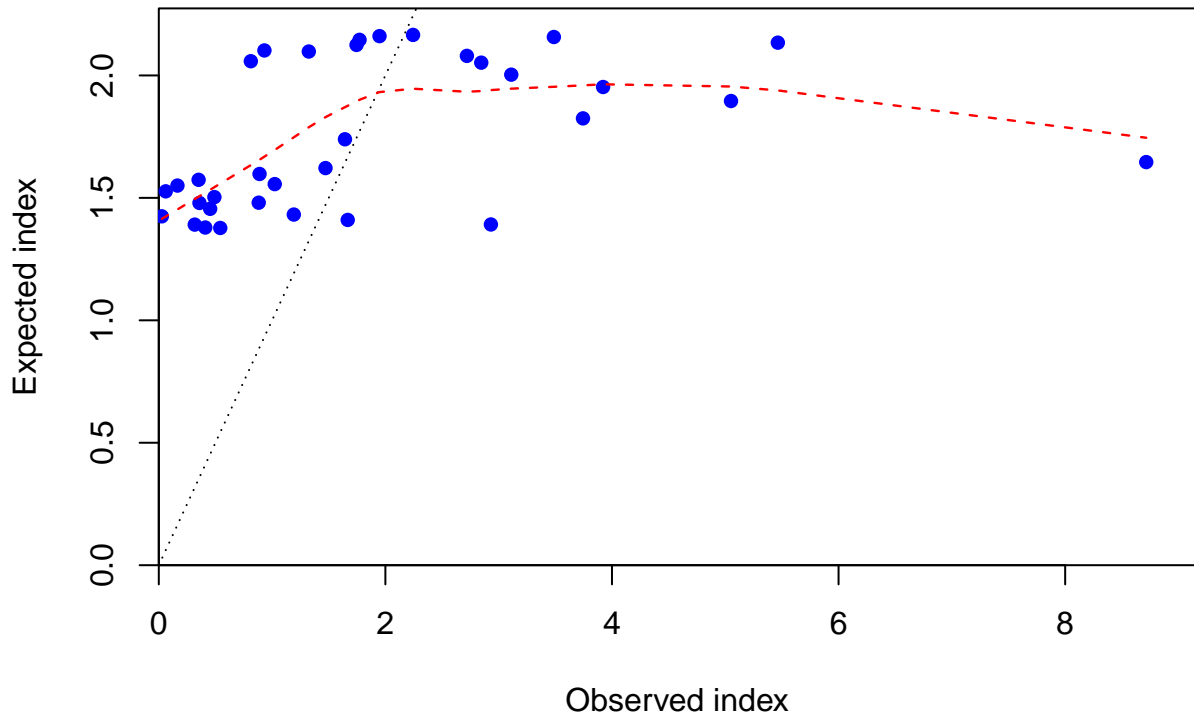
Relative spawning output:  $B/B_{MSY}$

Index



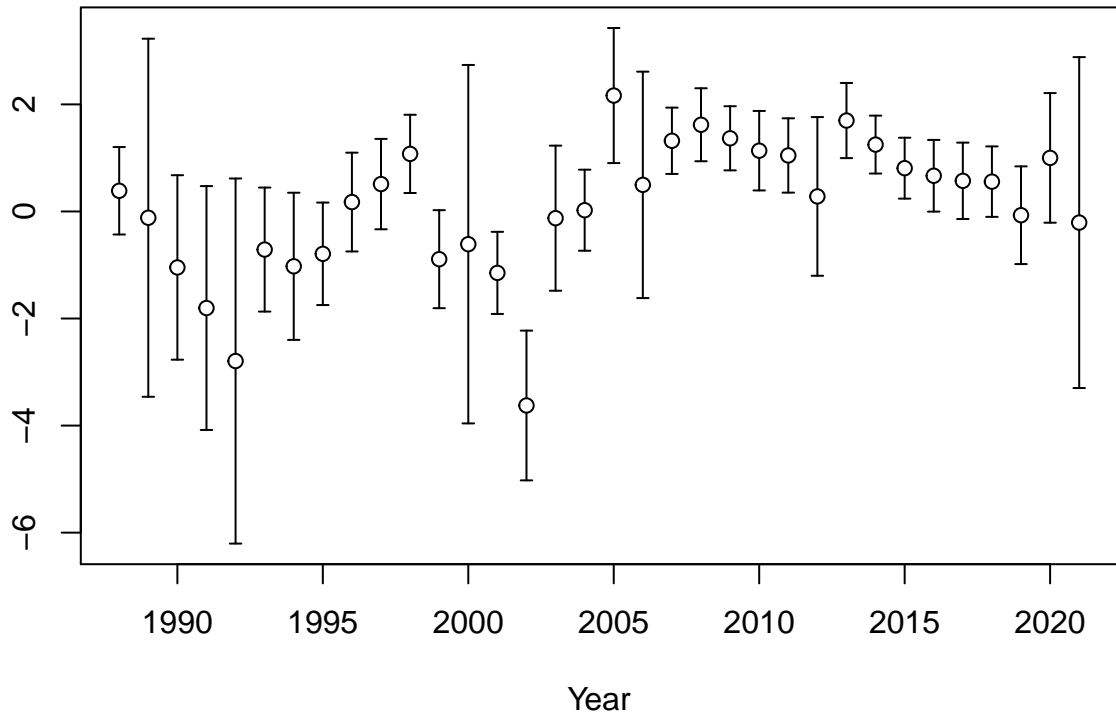
Index



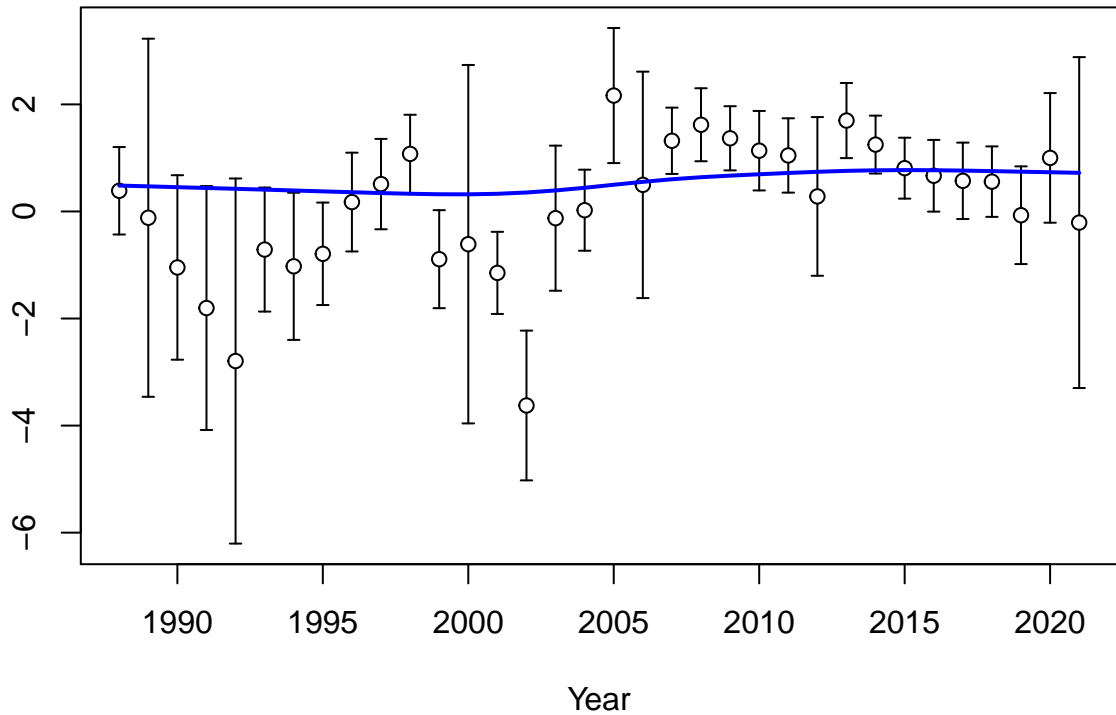


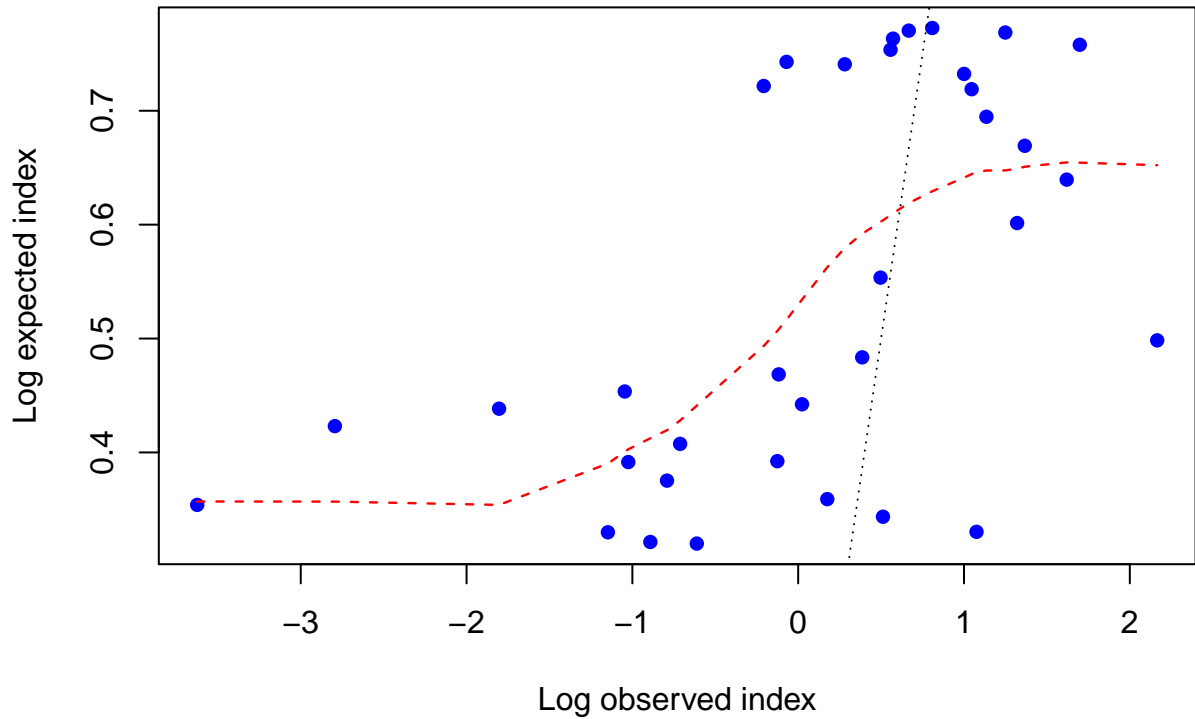


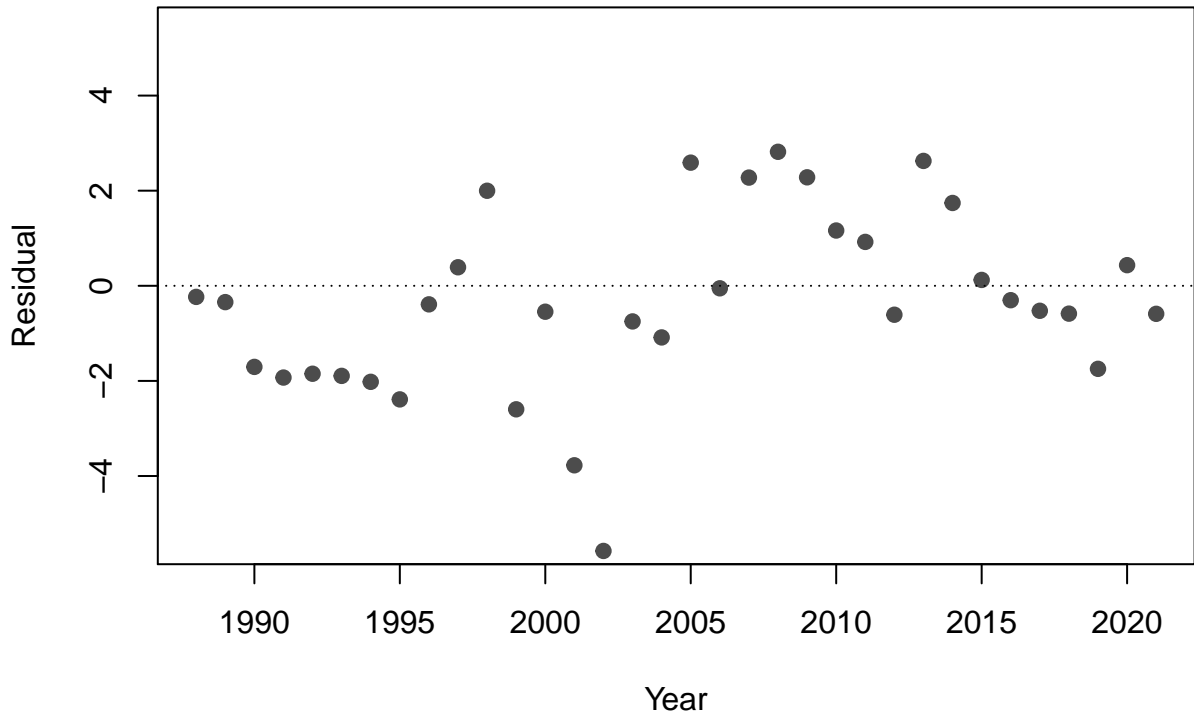
Log index

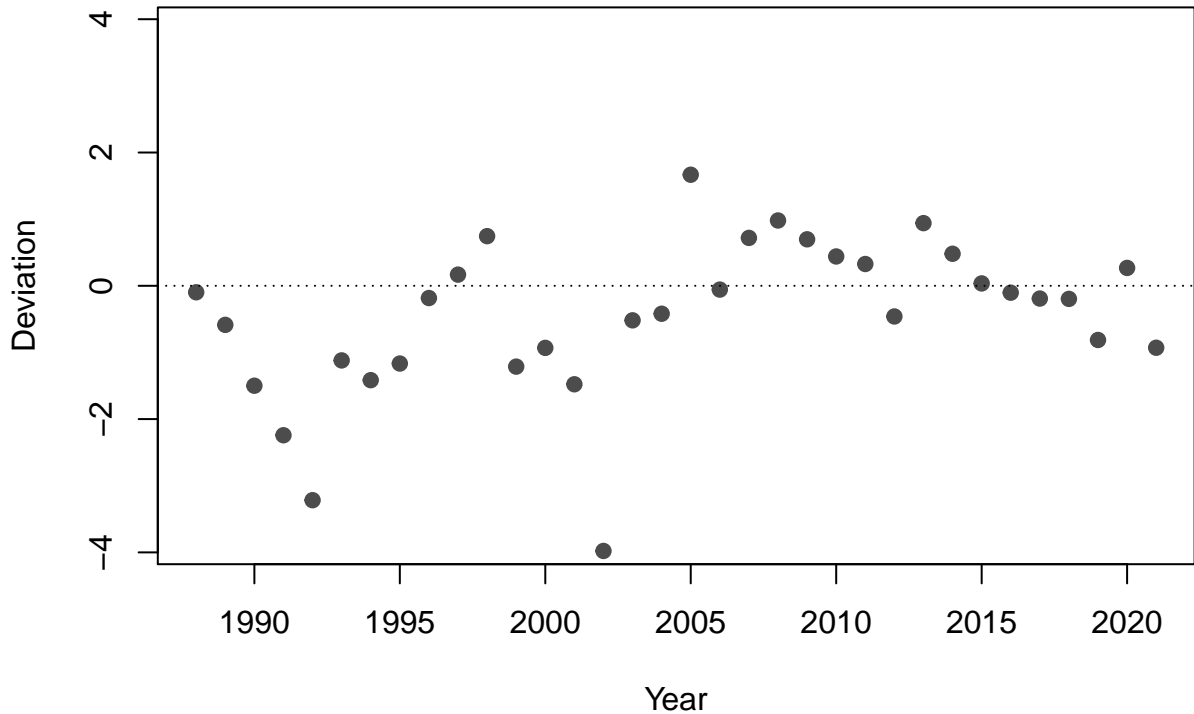


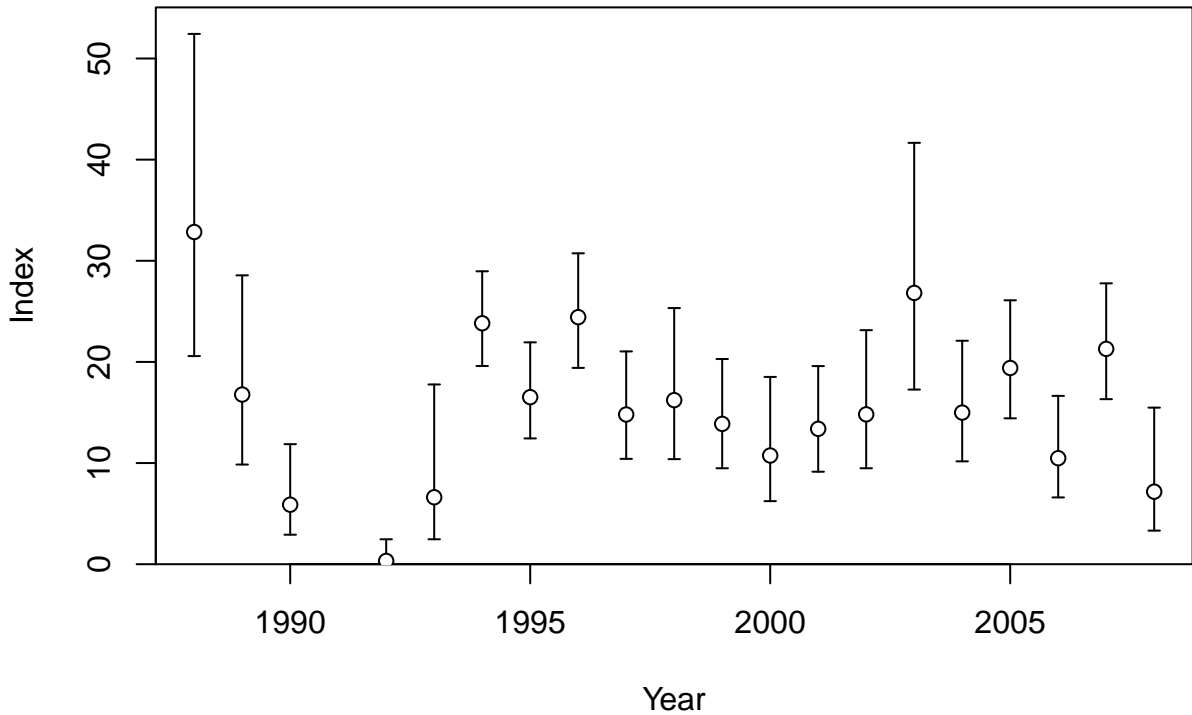
Log index

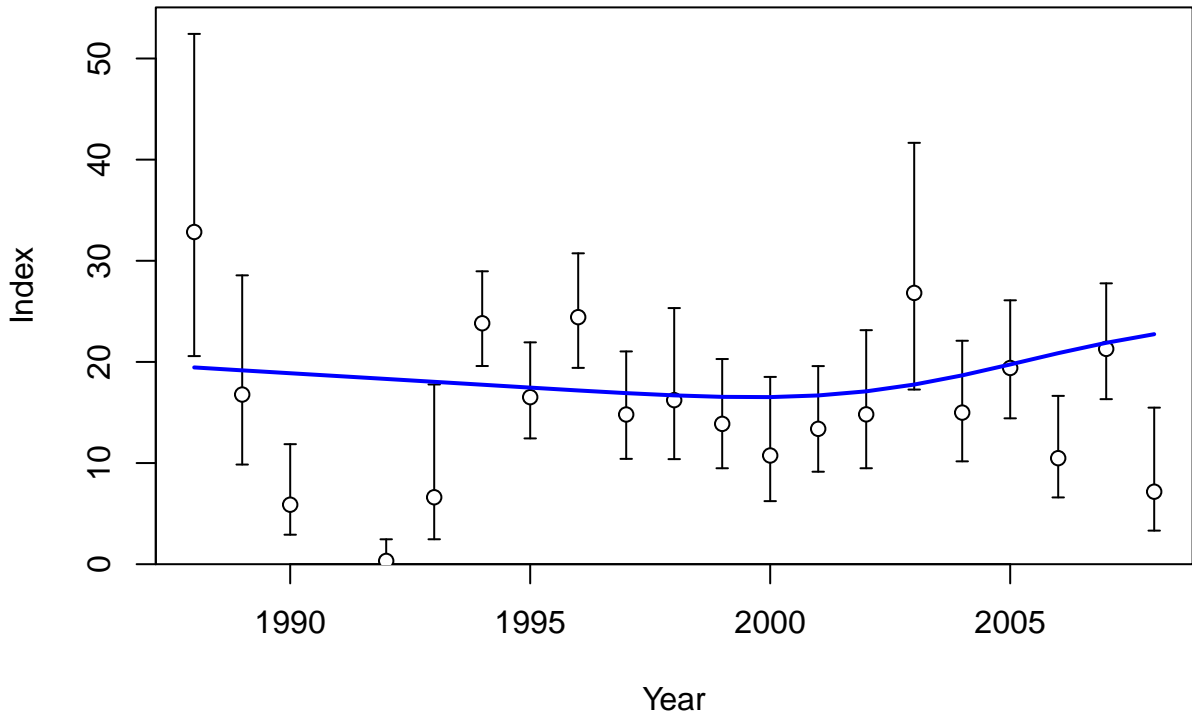


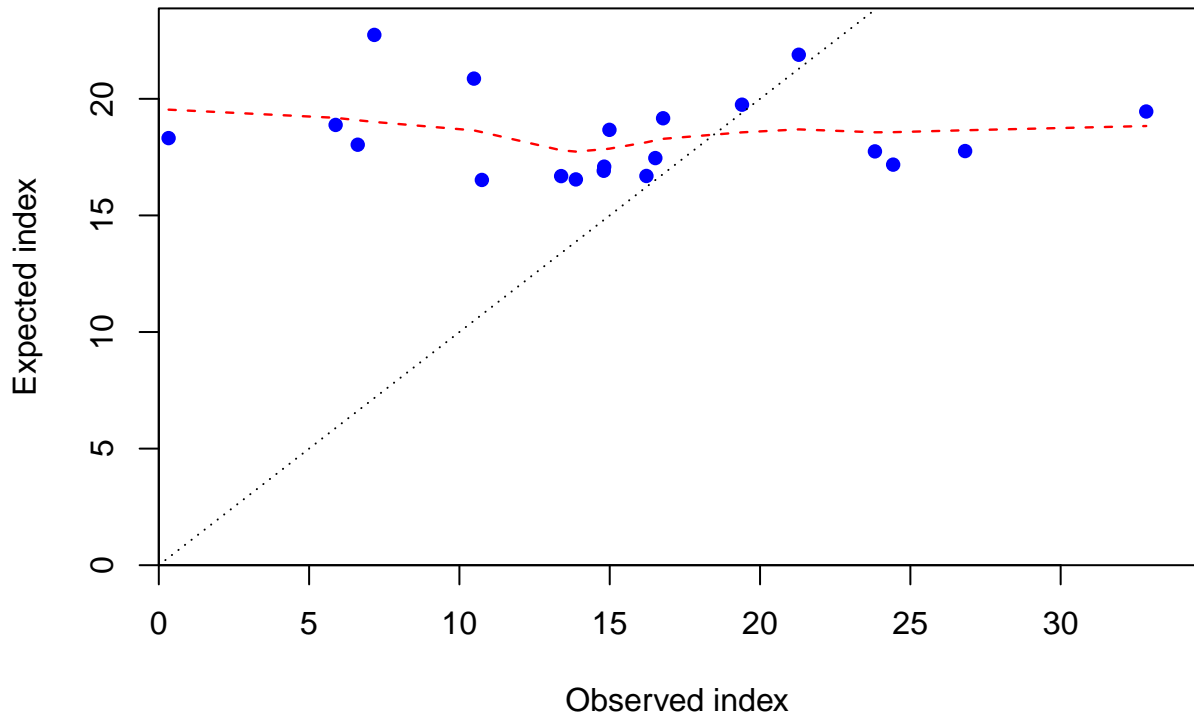






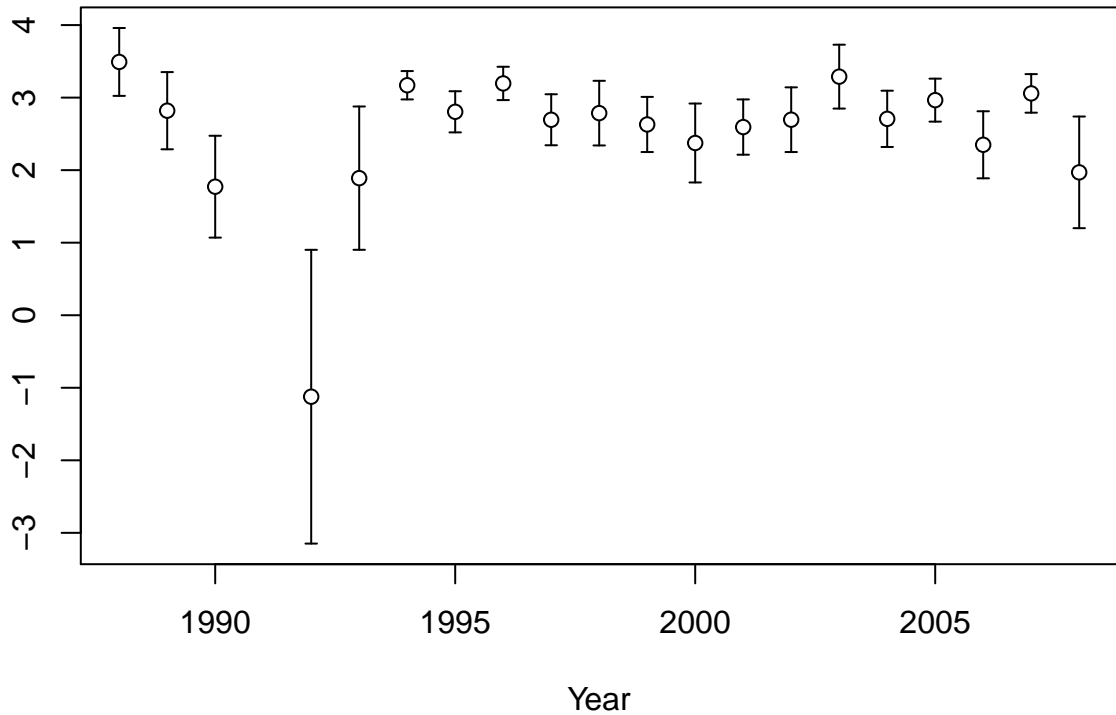




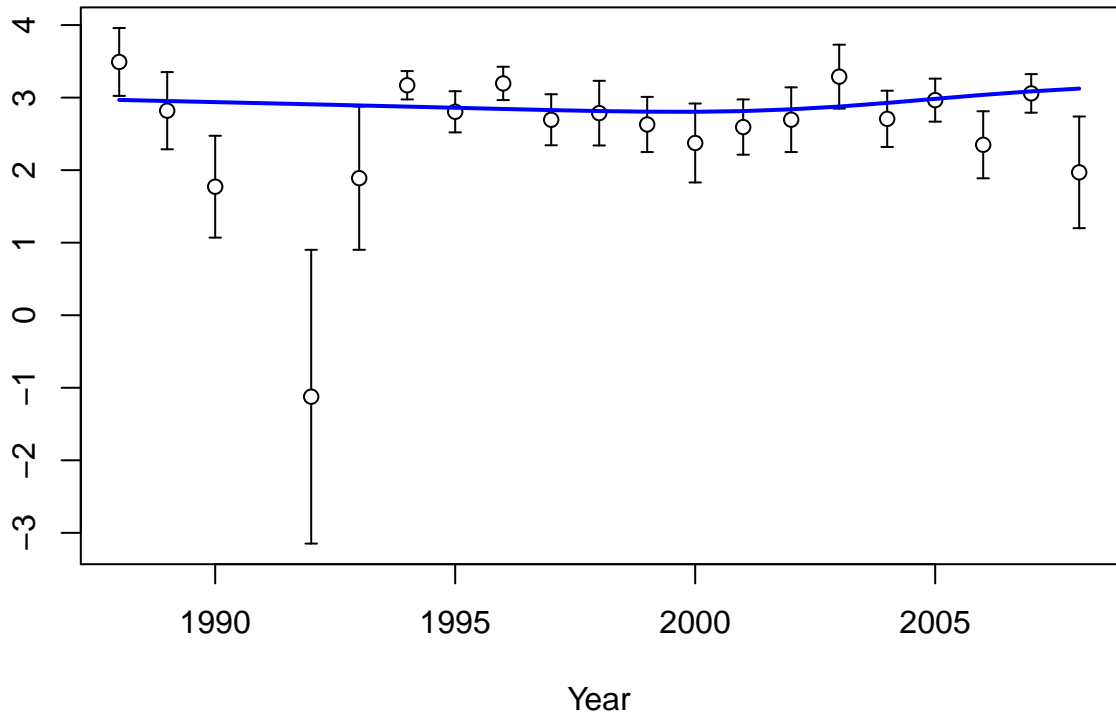


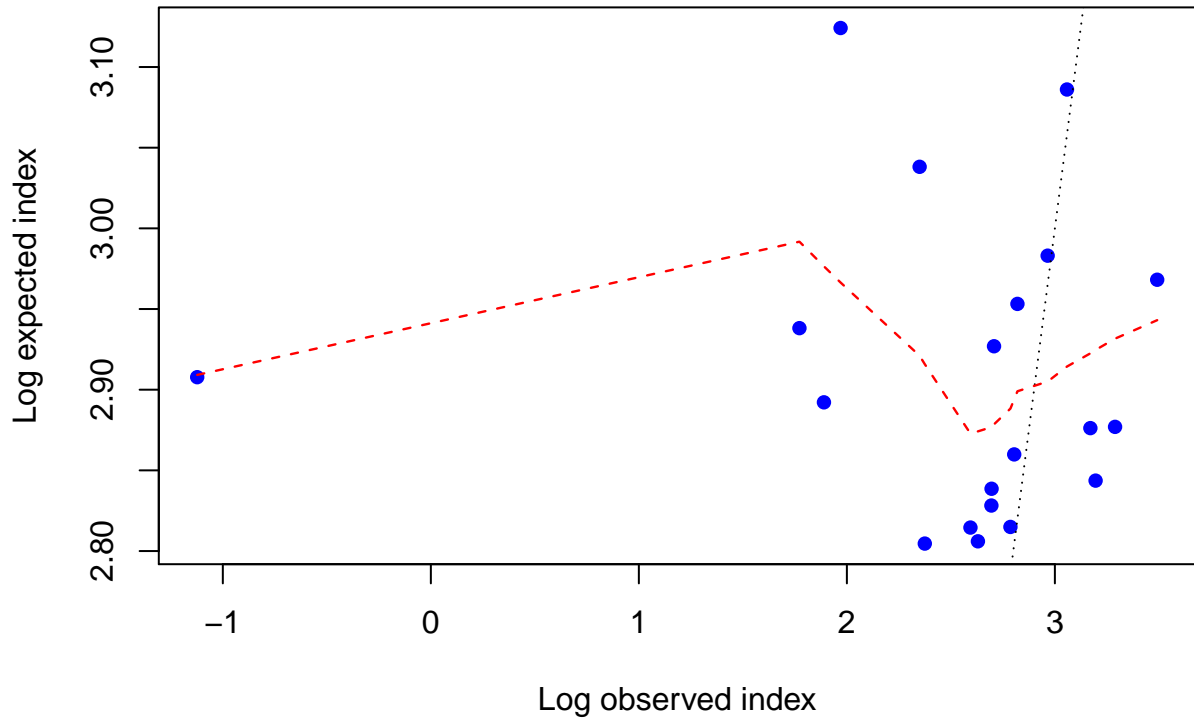


Log index

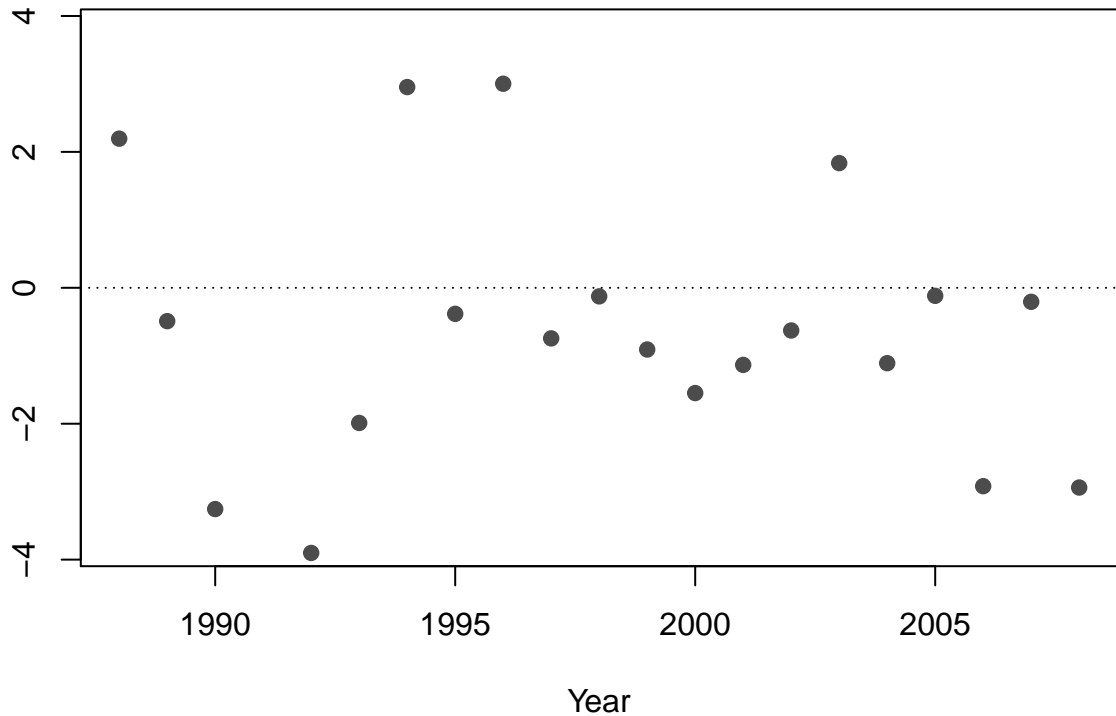


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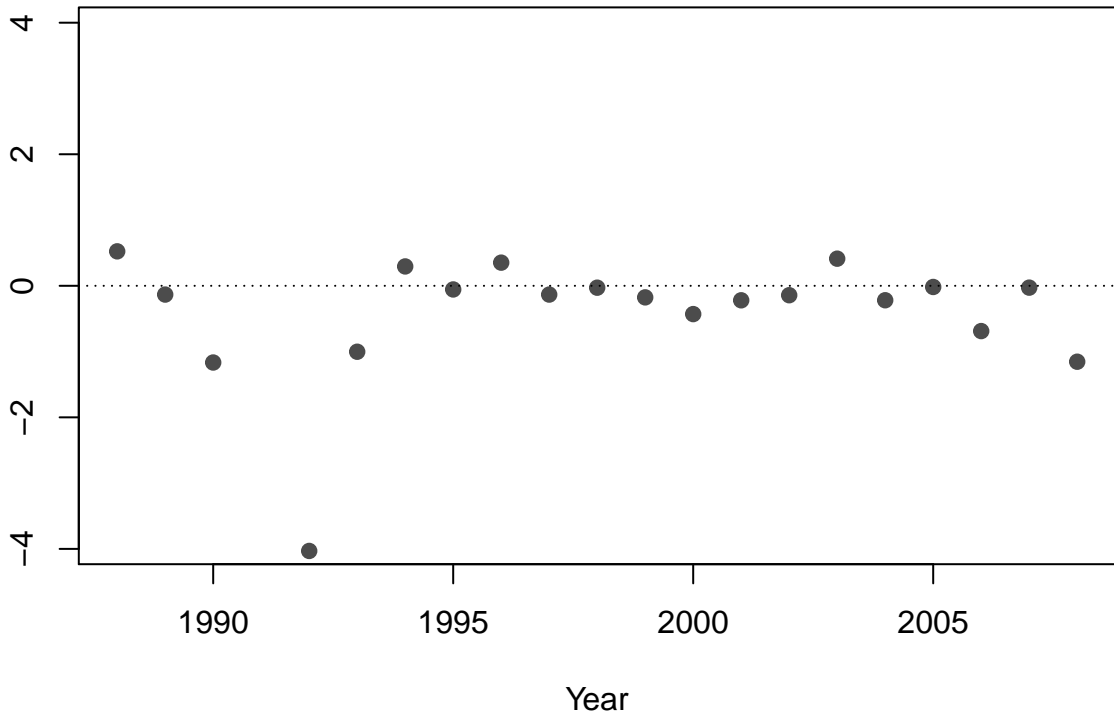


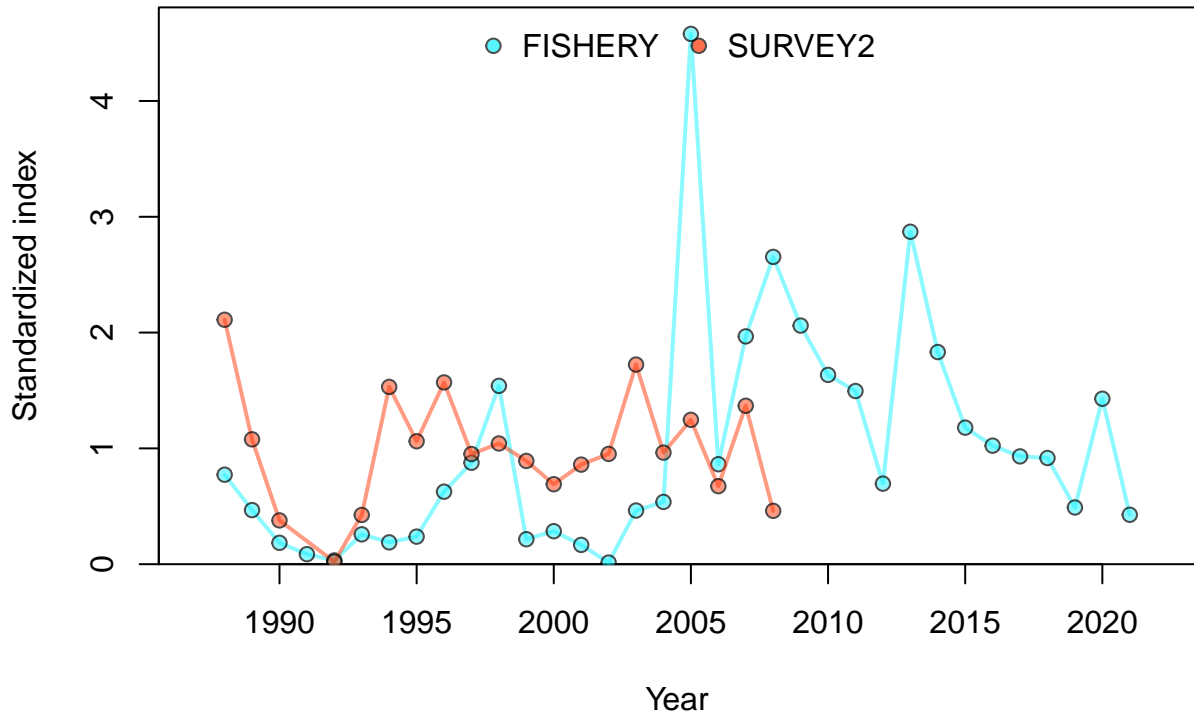


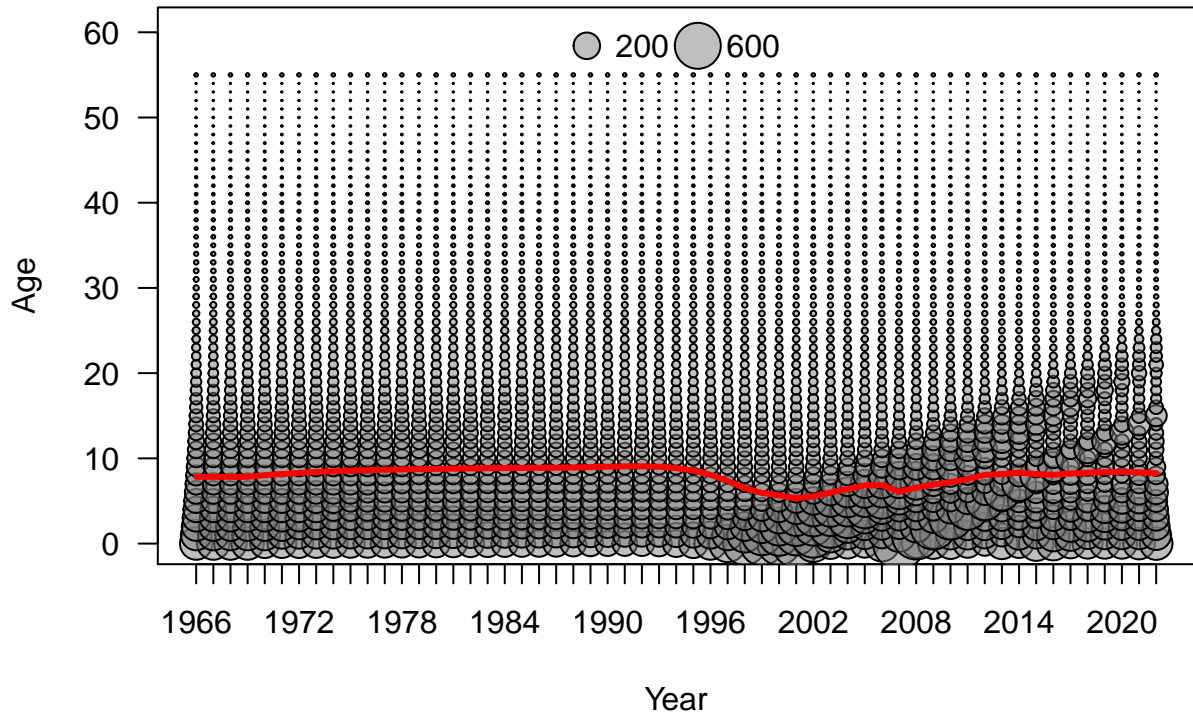
Residual

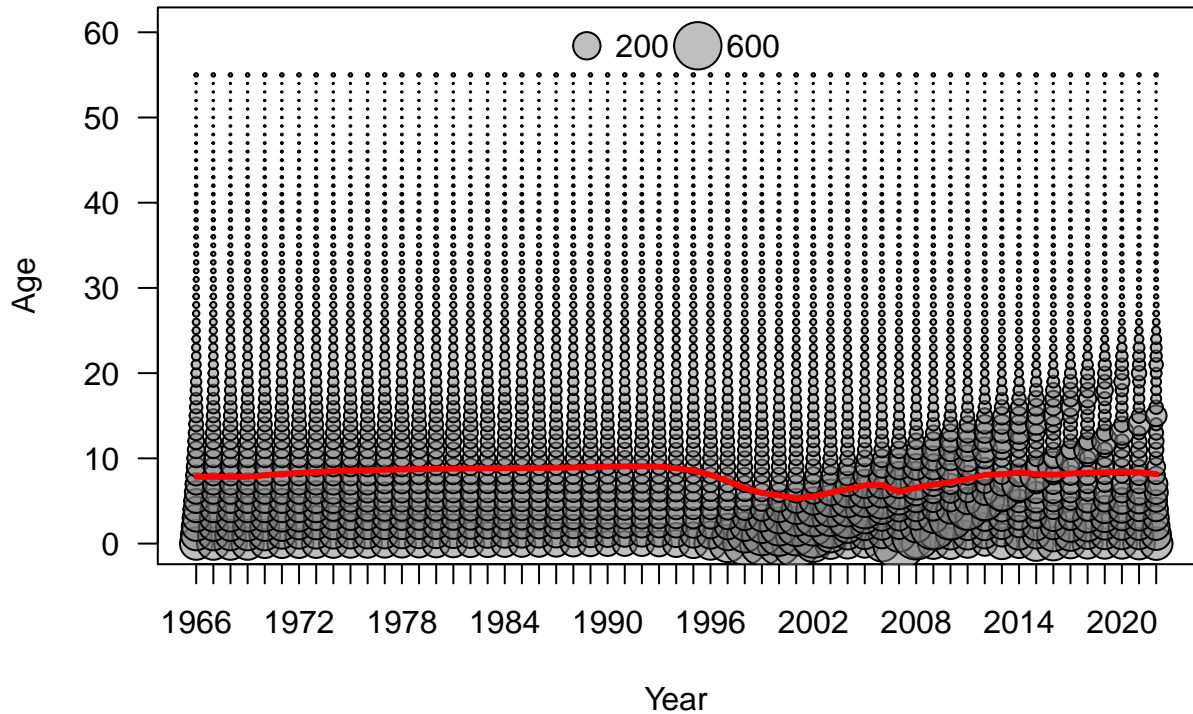


Deviation

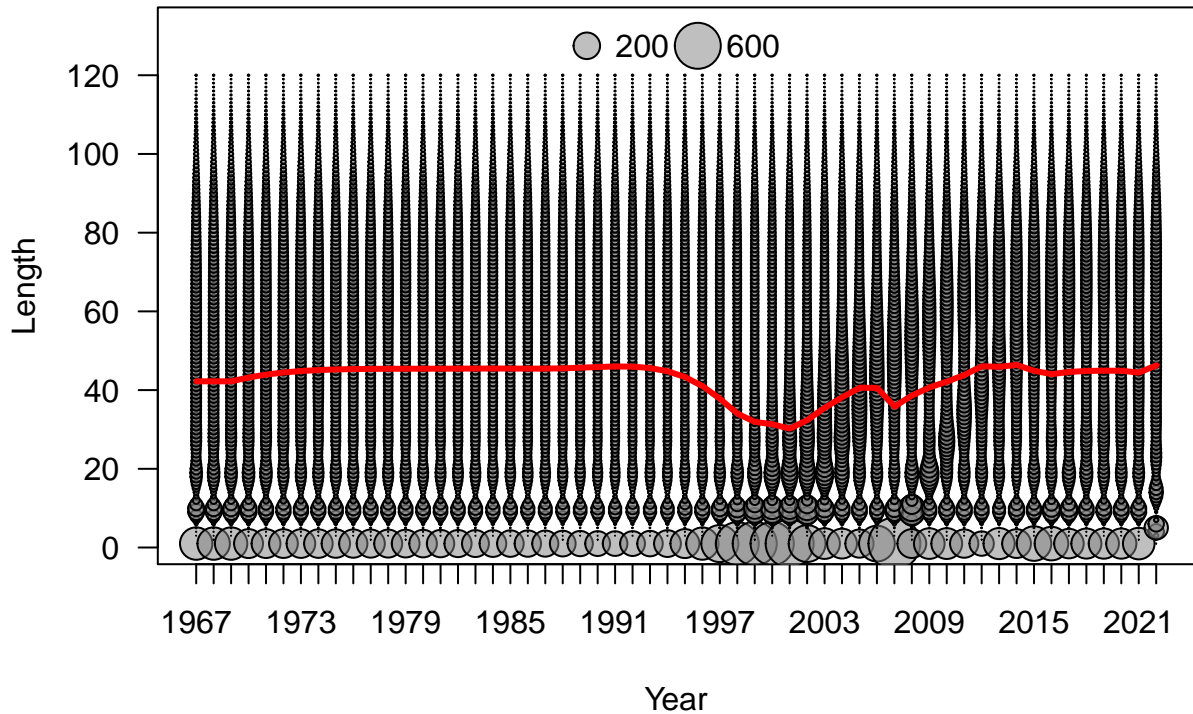


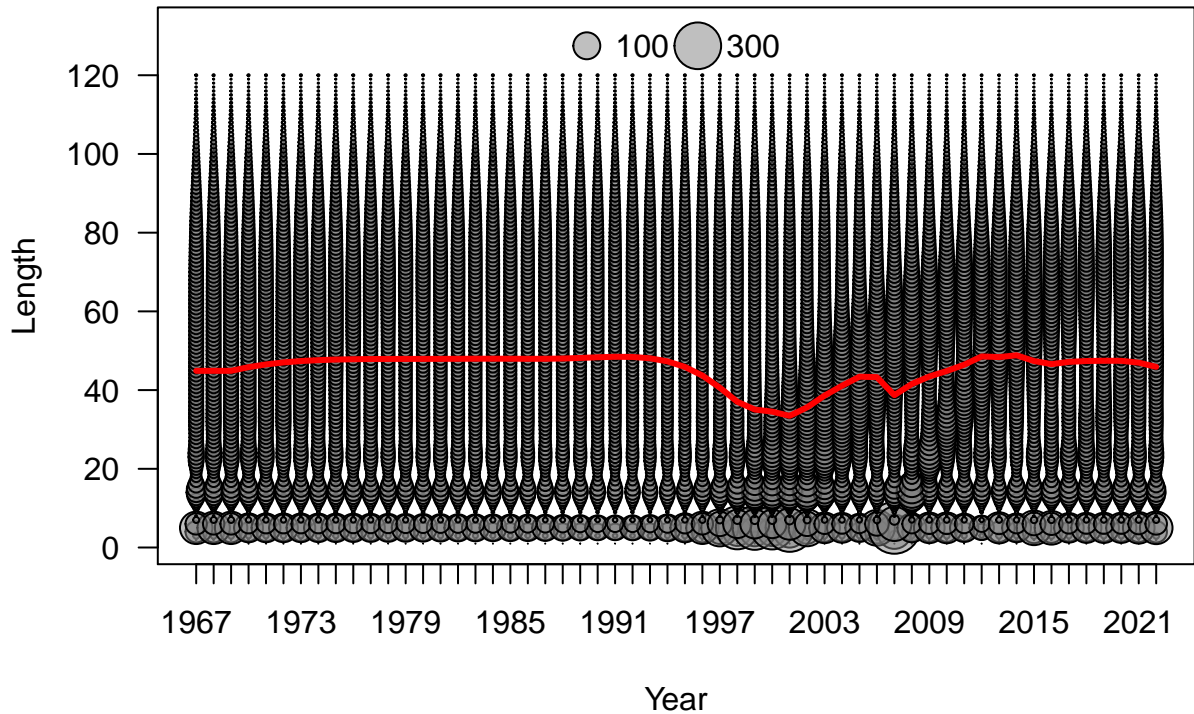


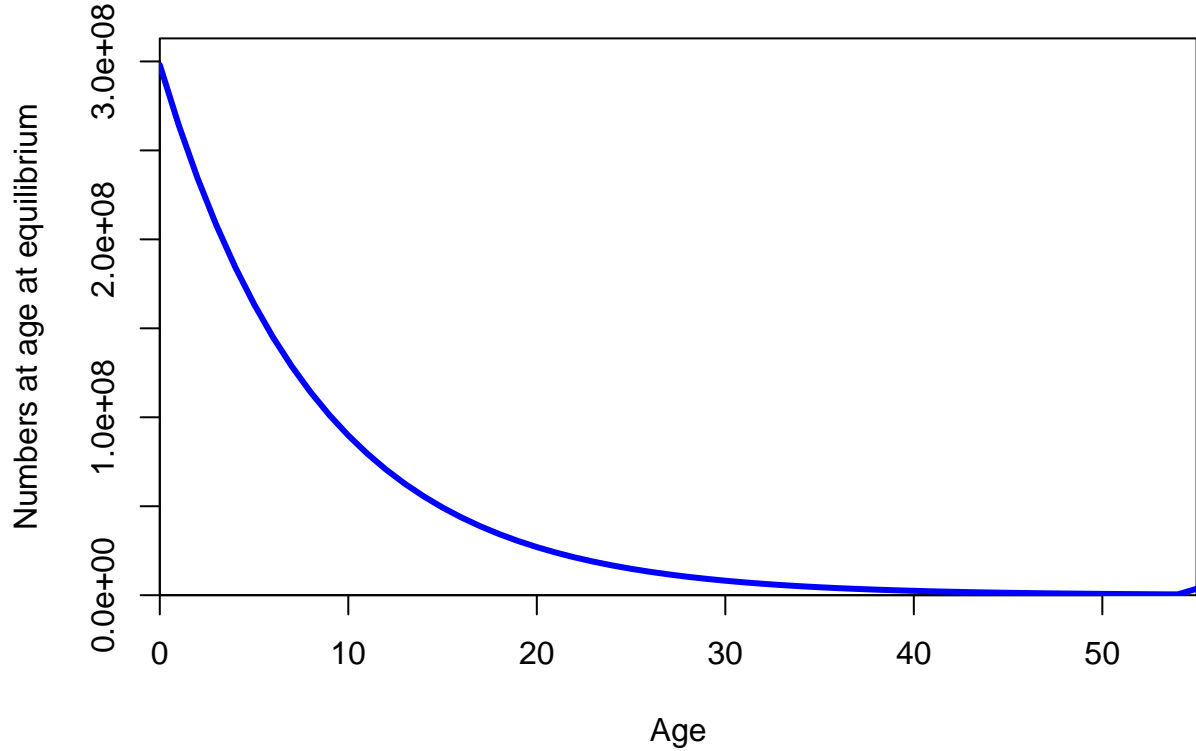






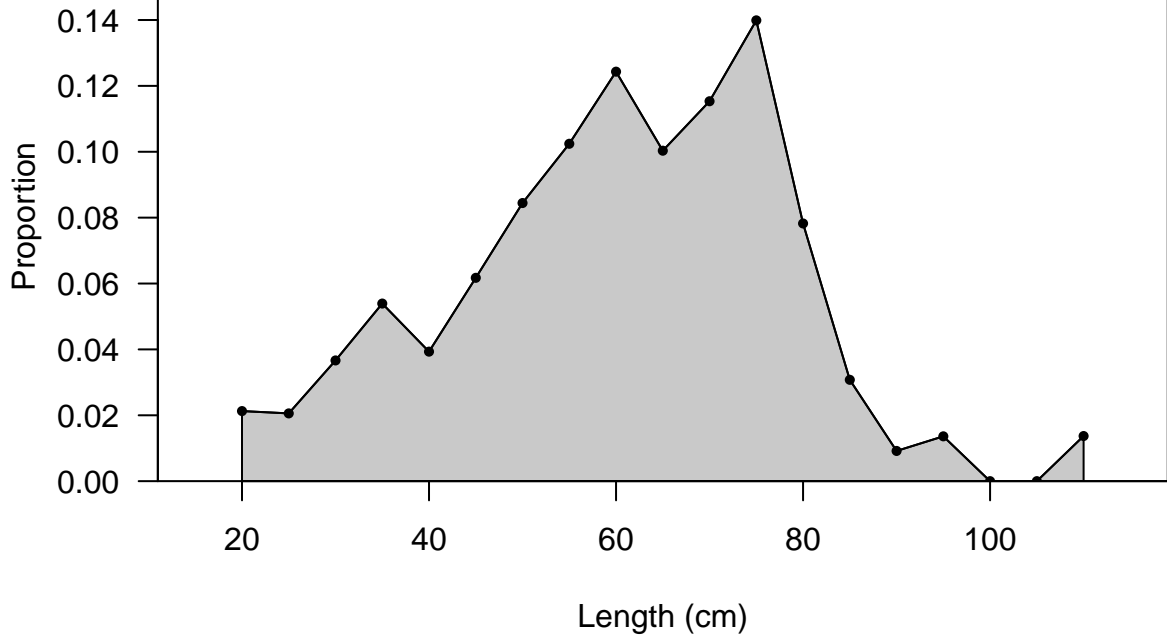






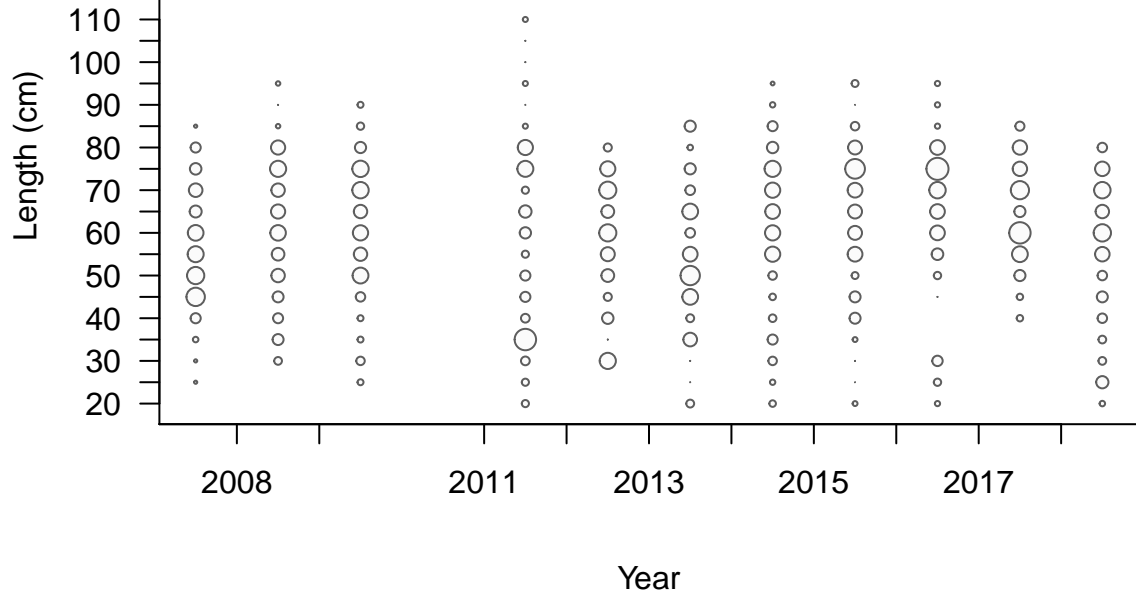
# FISHERY

Sum of N adj.=712.5

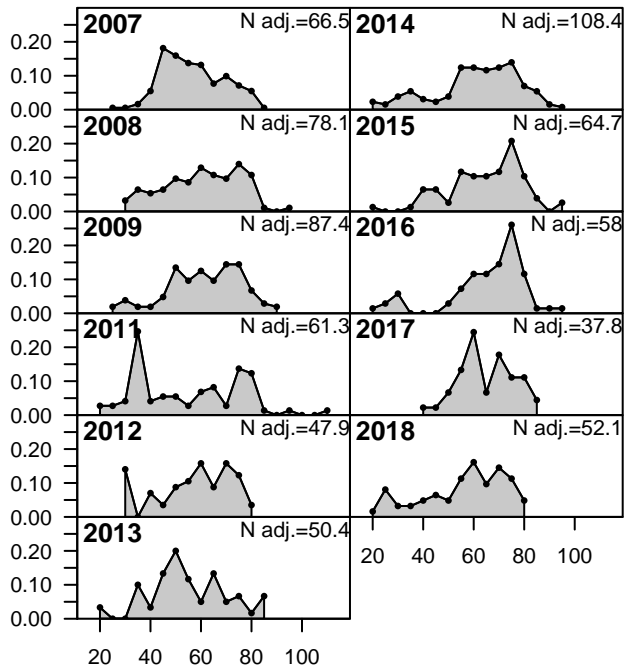


FISHERY

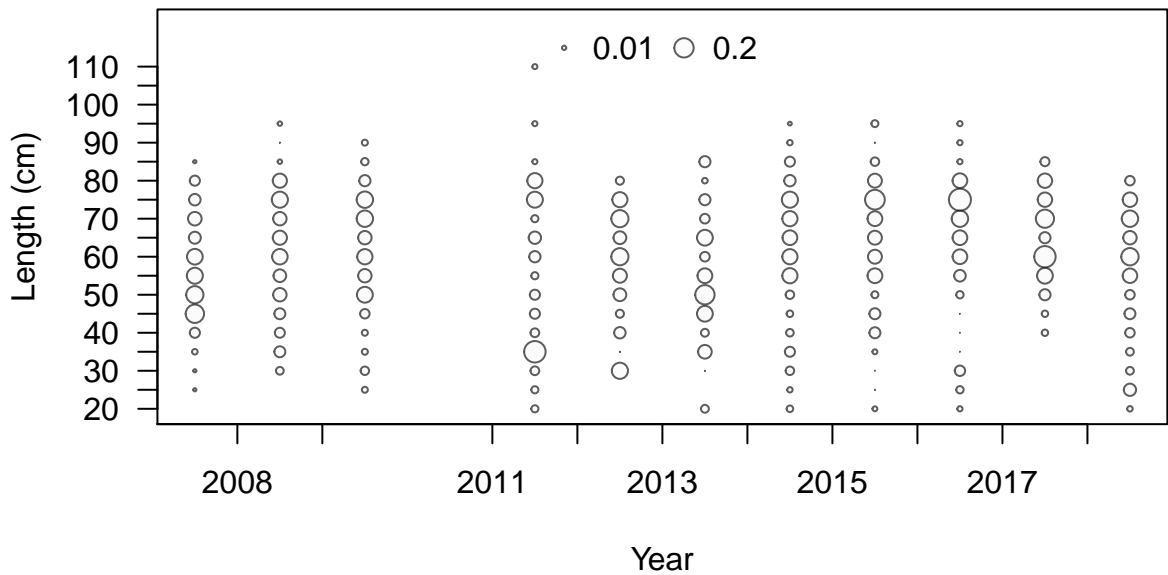
◦ 0.01 ○ 0.2



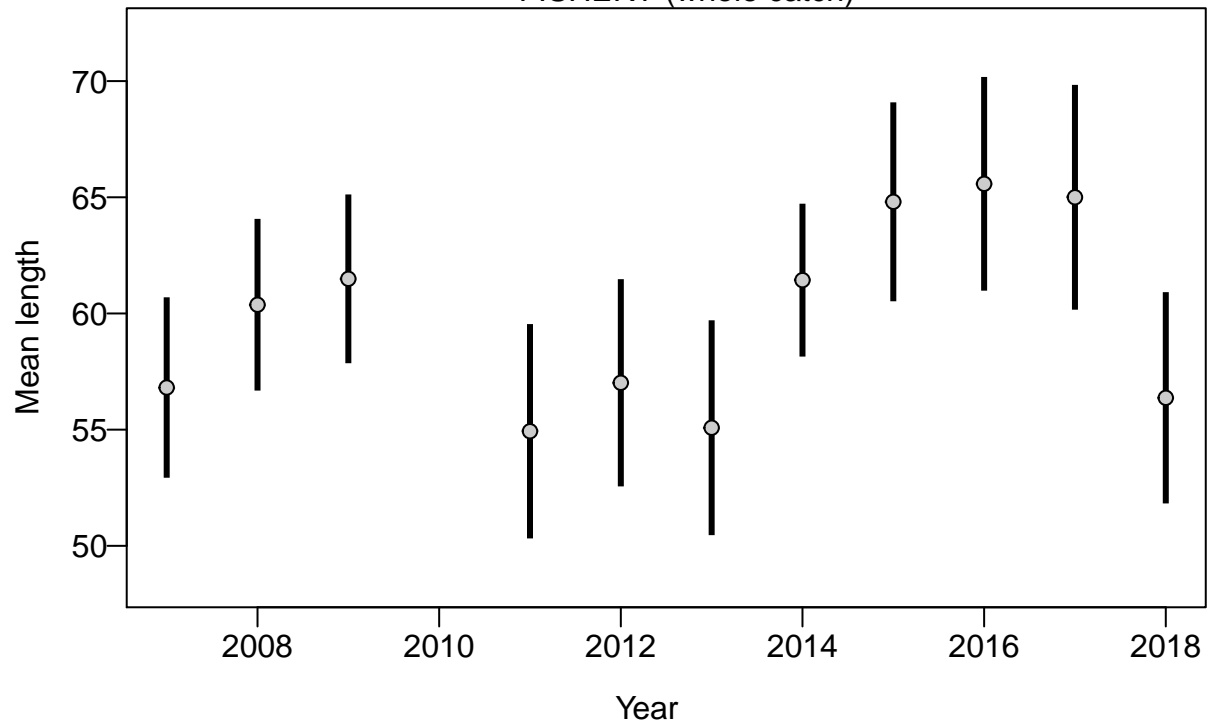
Proportion



Length (cm)



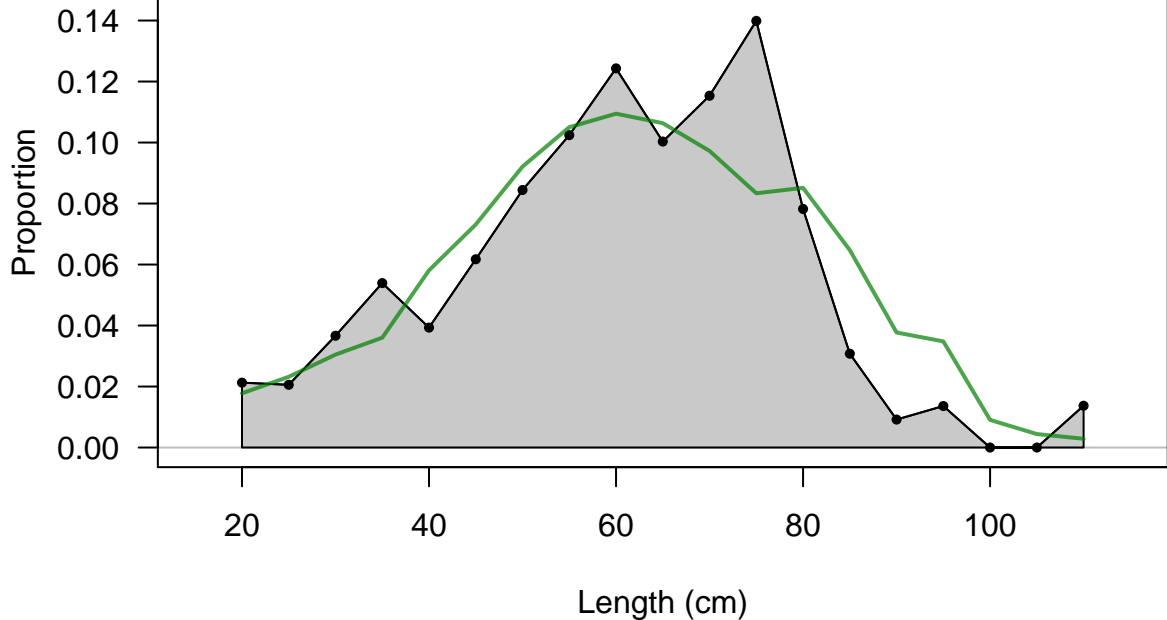
FISHERY (whole catch)

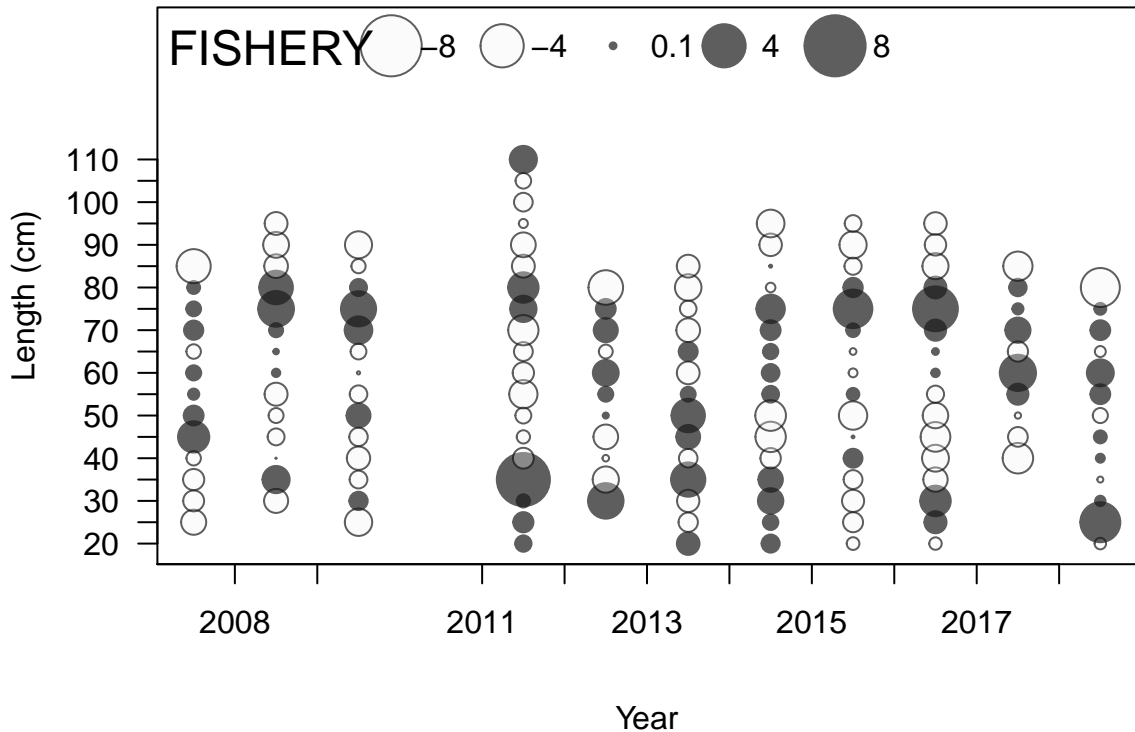




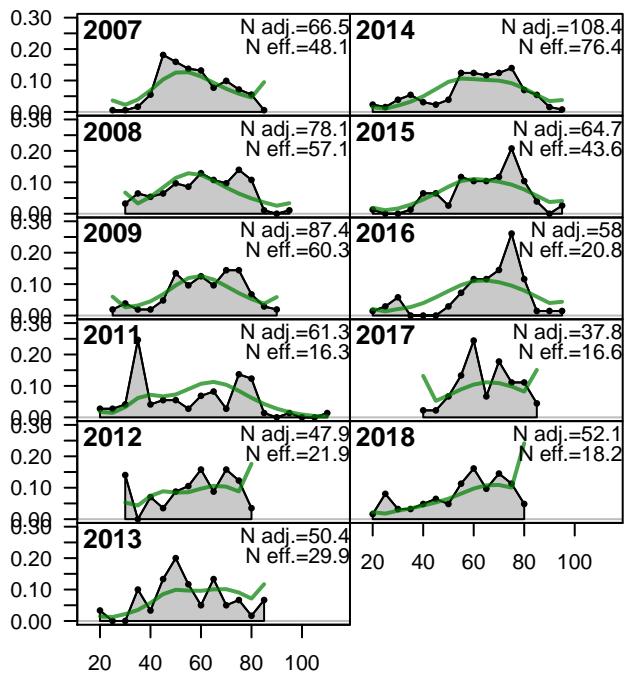
# FISHERY

Sum of N adj.=712.5  
Sum of N eff.=409.2

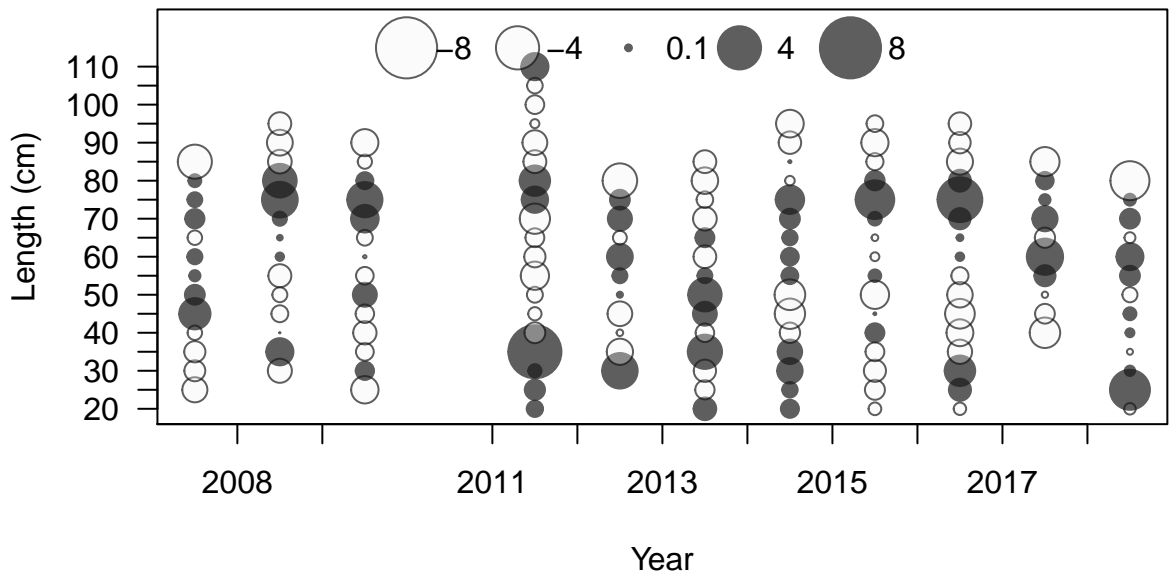




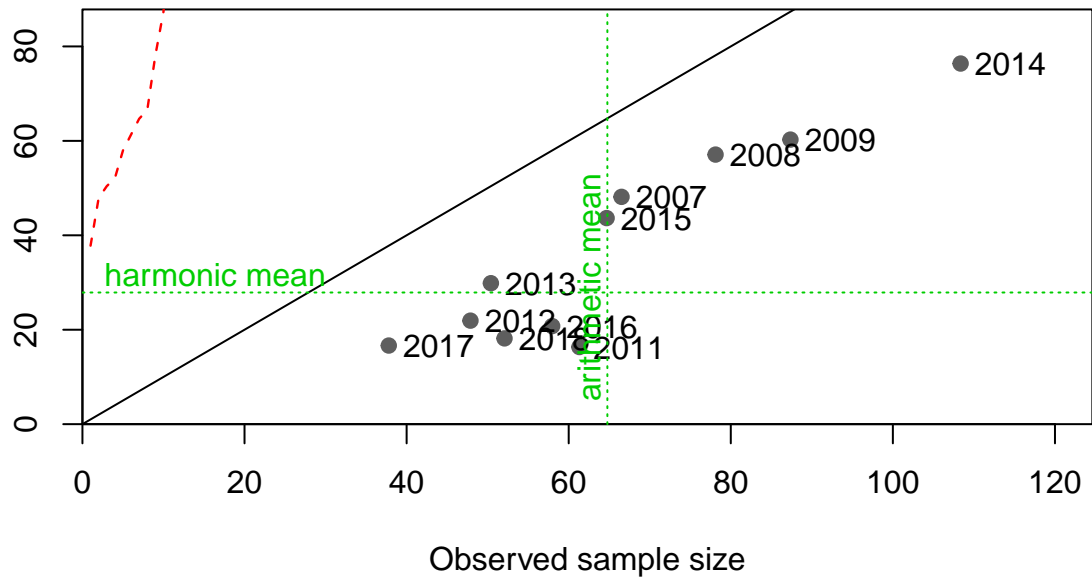
Proportion



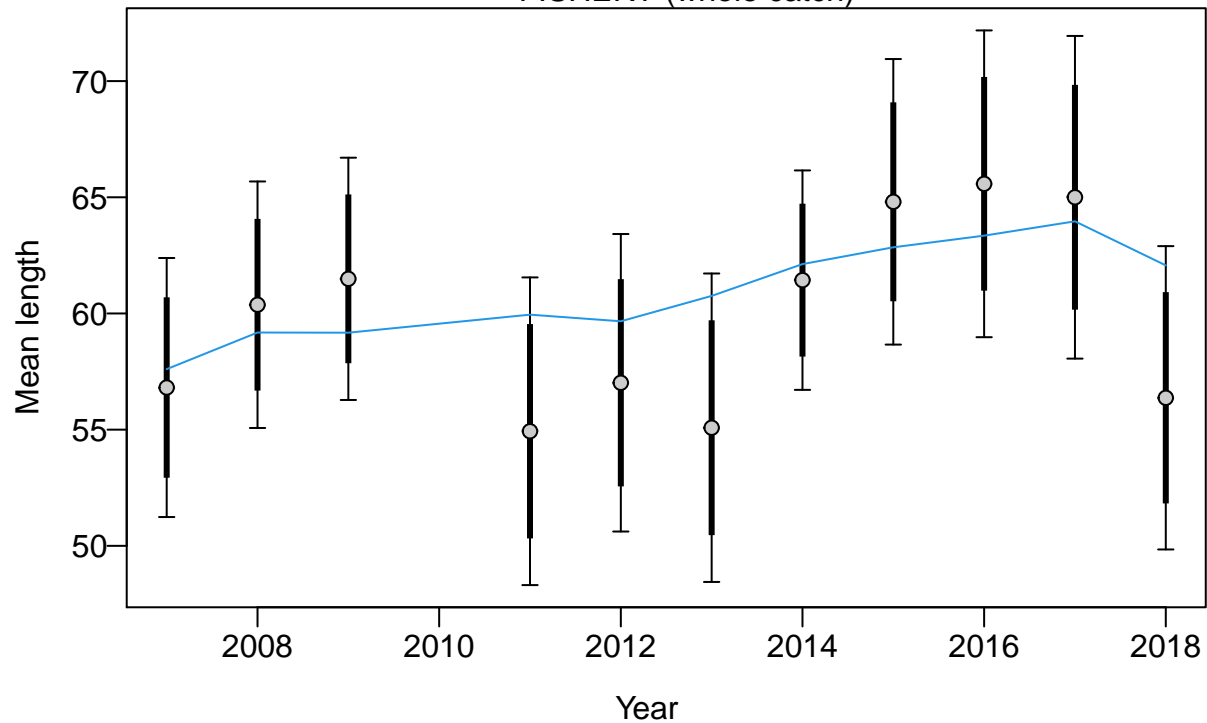
Length (cm)

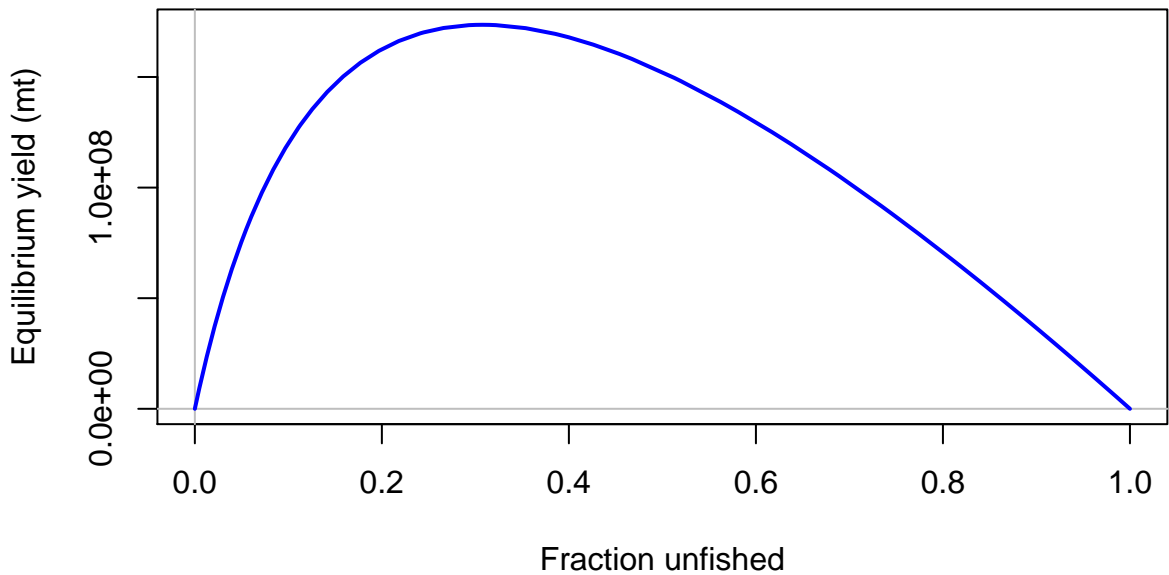


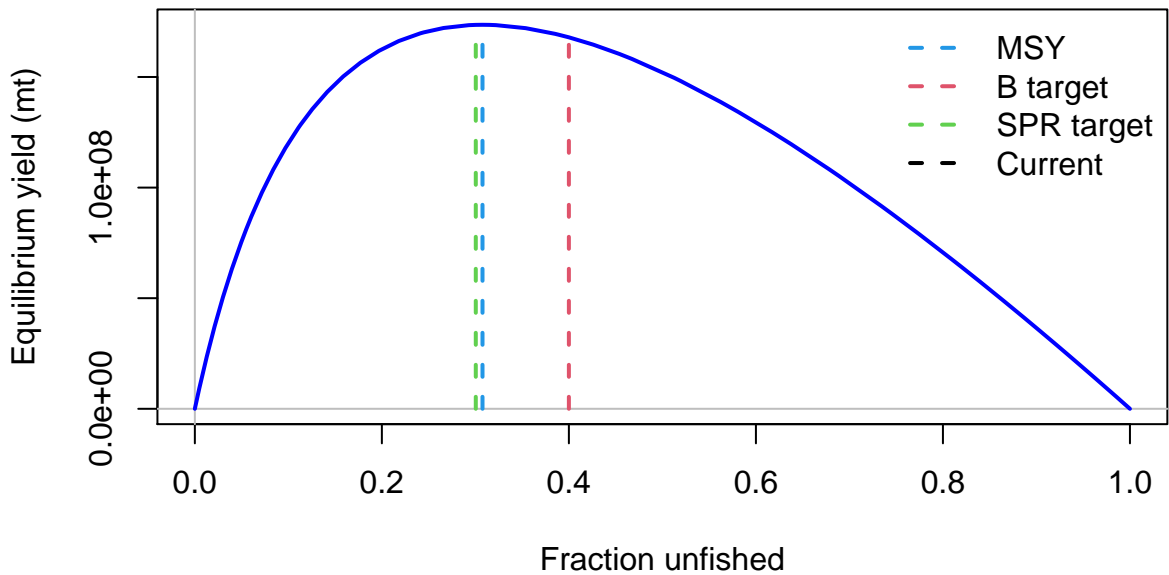
Effective sample size



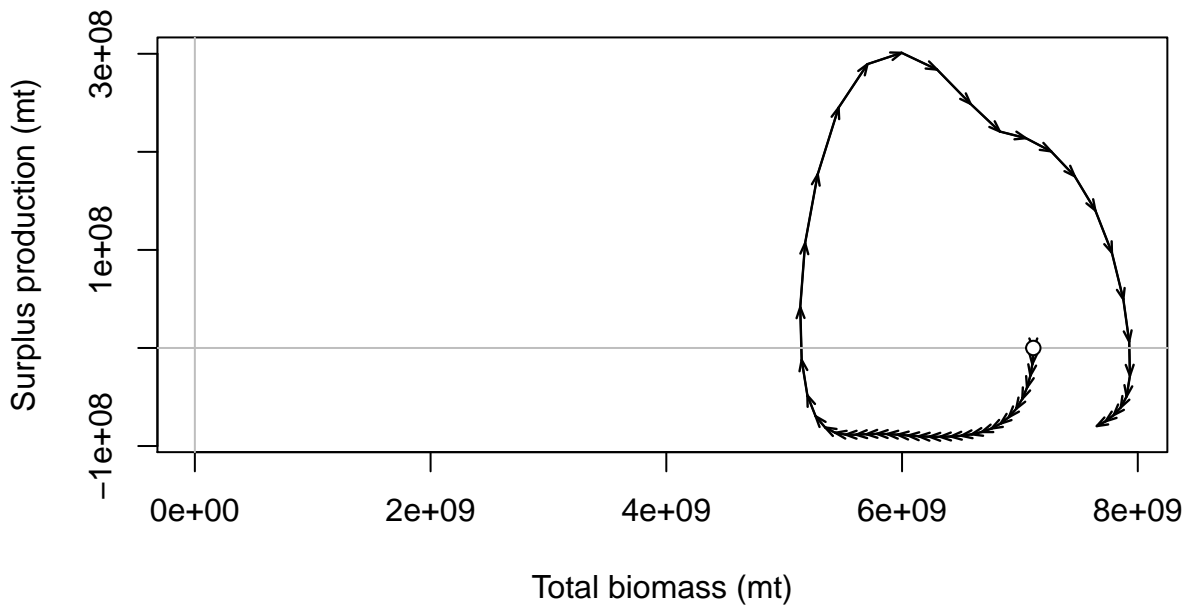
FISHERY (whole catch)

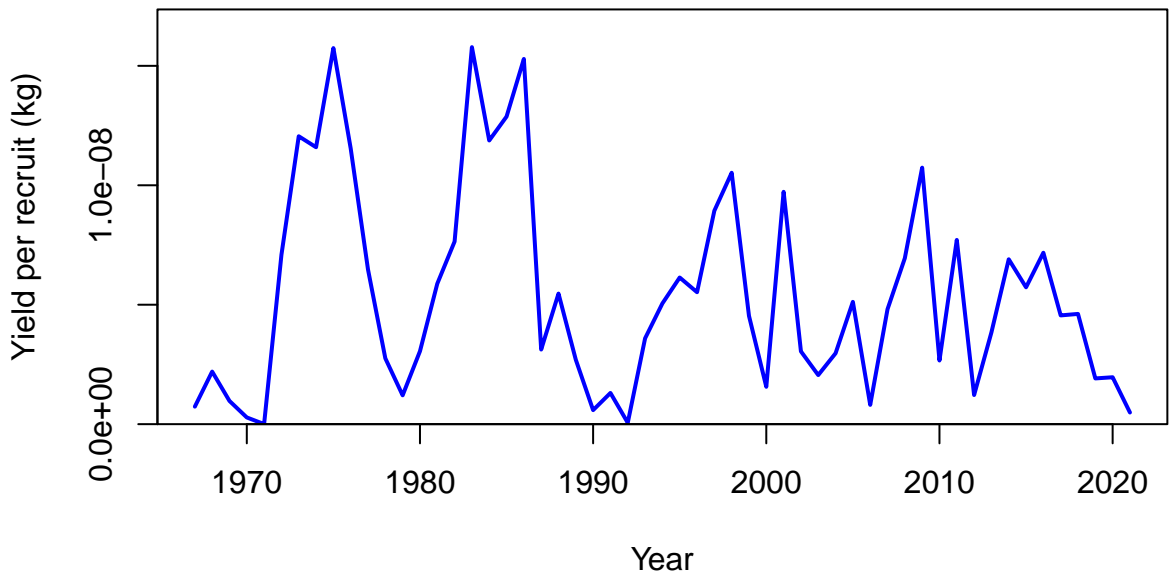


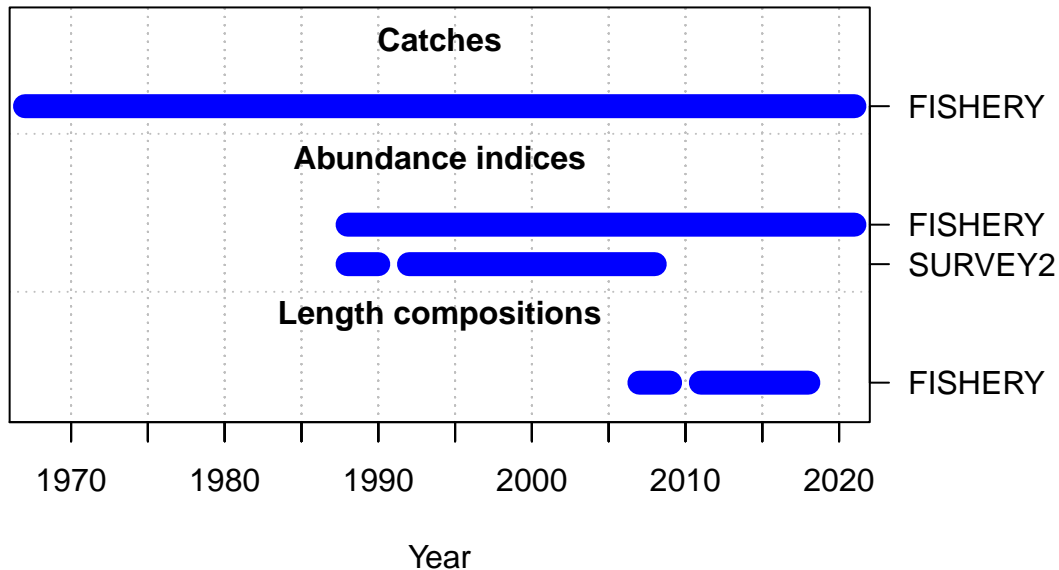


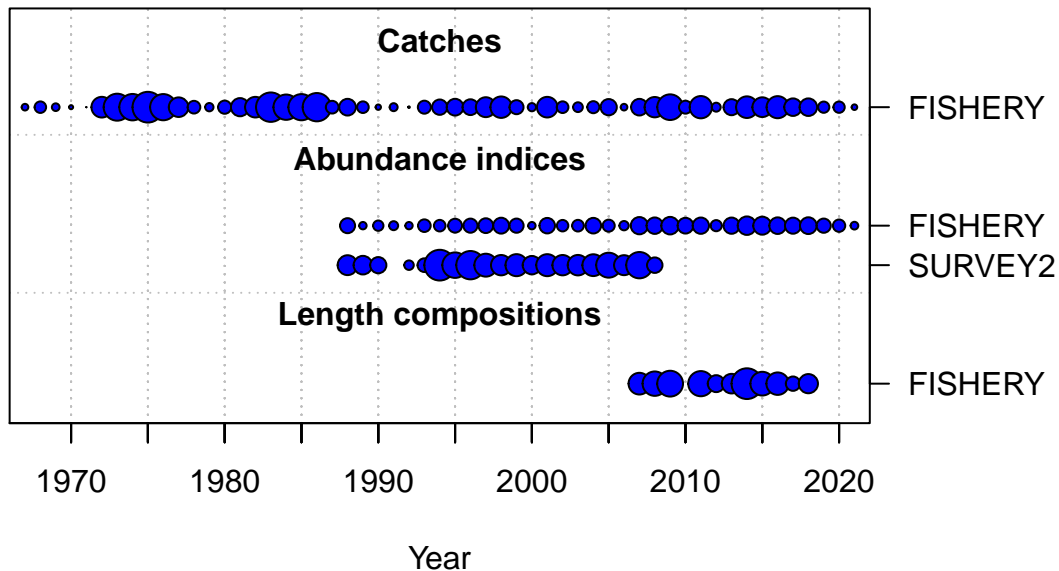




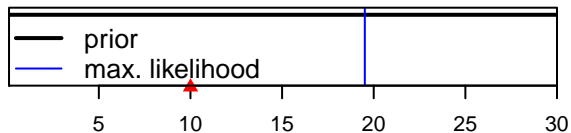




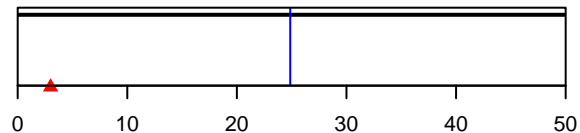




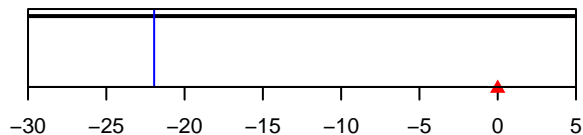
SR\_LN(R0)



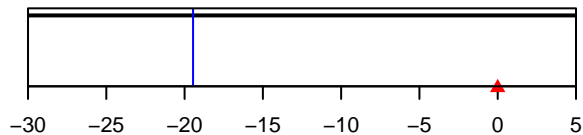
Size\_95%width\_FISHERY(1)



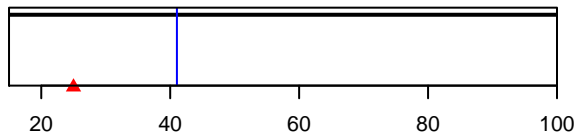
LnQ\_base\_FISHERY(1)



LnQ\_base\_SURVEY2(2)



Size\_inflection\_FISHERY(1)



Parameter value