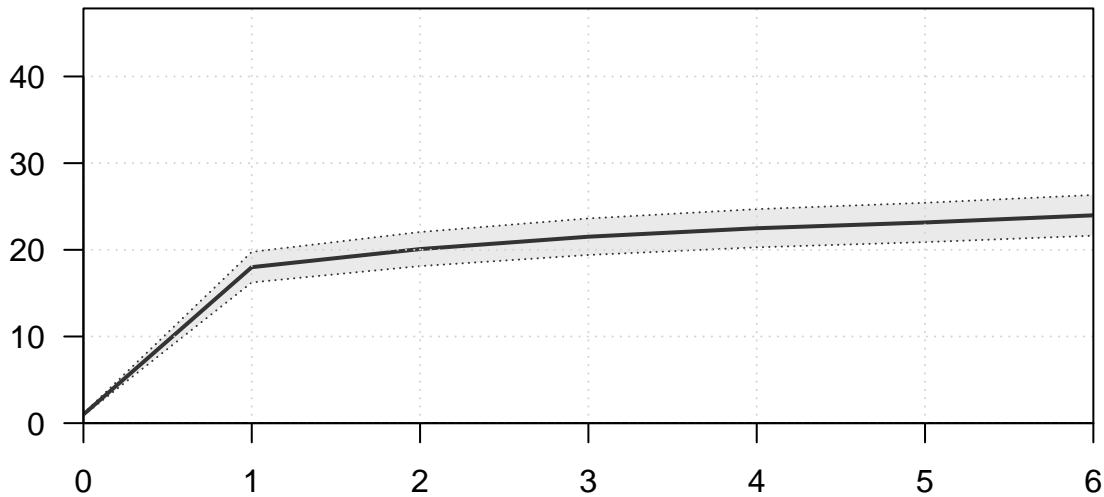
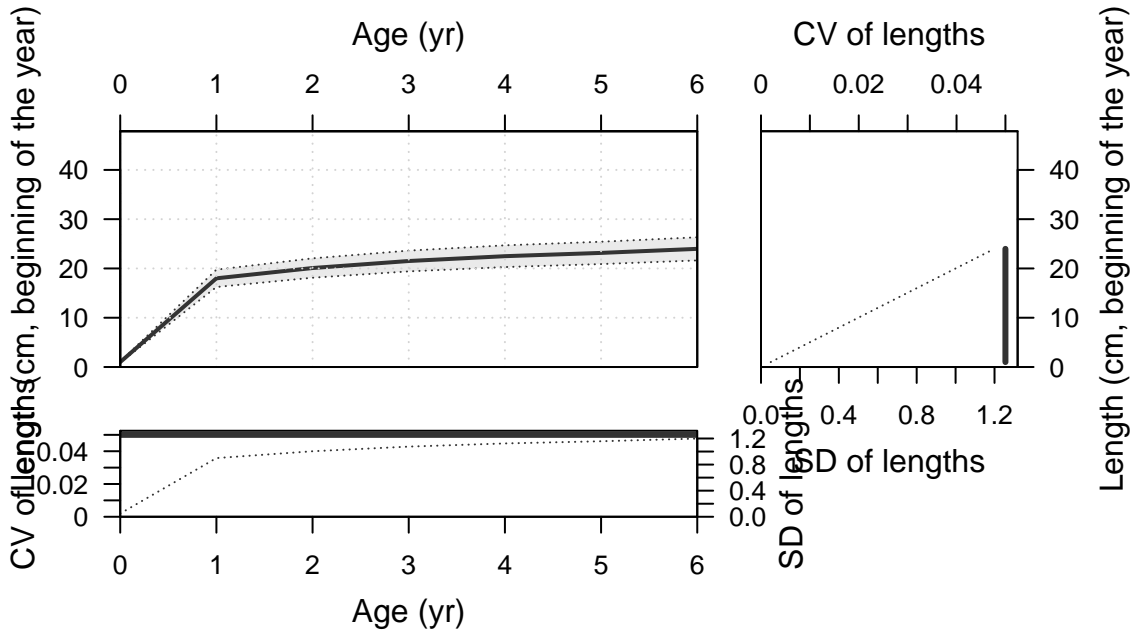


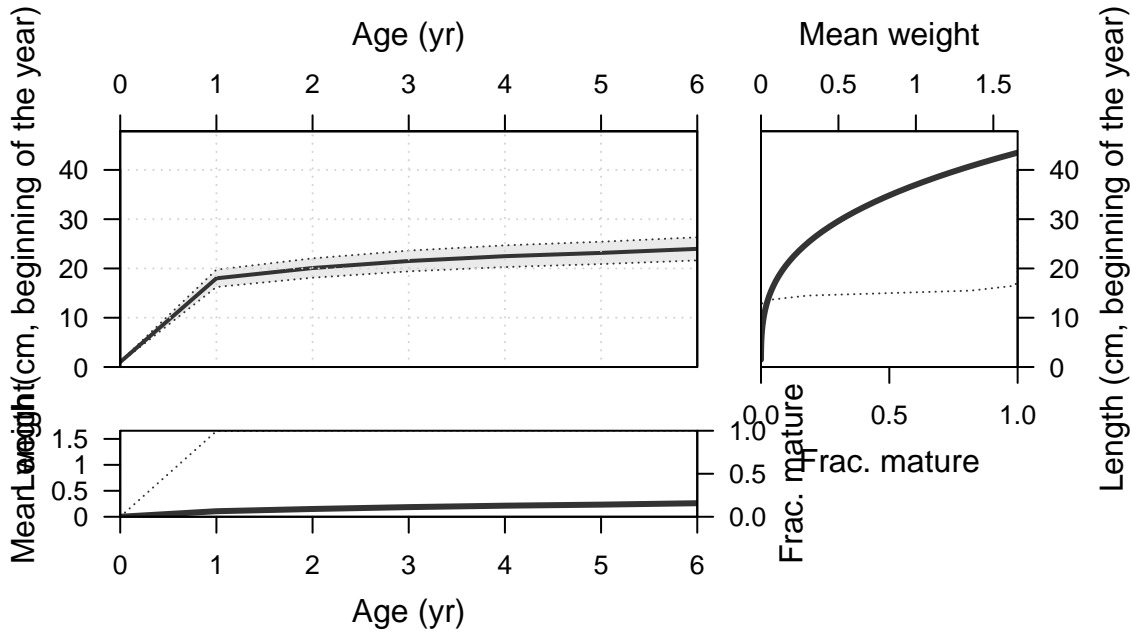
Plots created using the 'r4ss' package in R  
Stock Synthesis version: 3.30.19.0  
StartTime: Sat Jul 23 09:01:52 2022  
Data\_File: data.ss  
Control\_File: control.ss

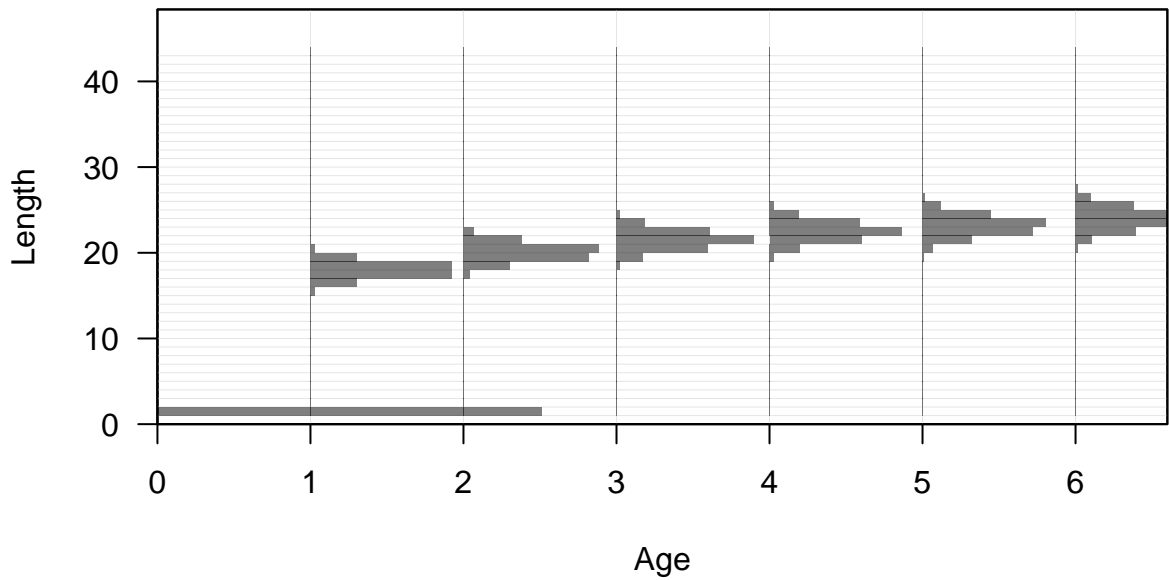
Length (cm, beginning of the year)

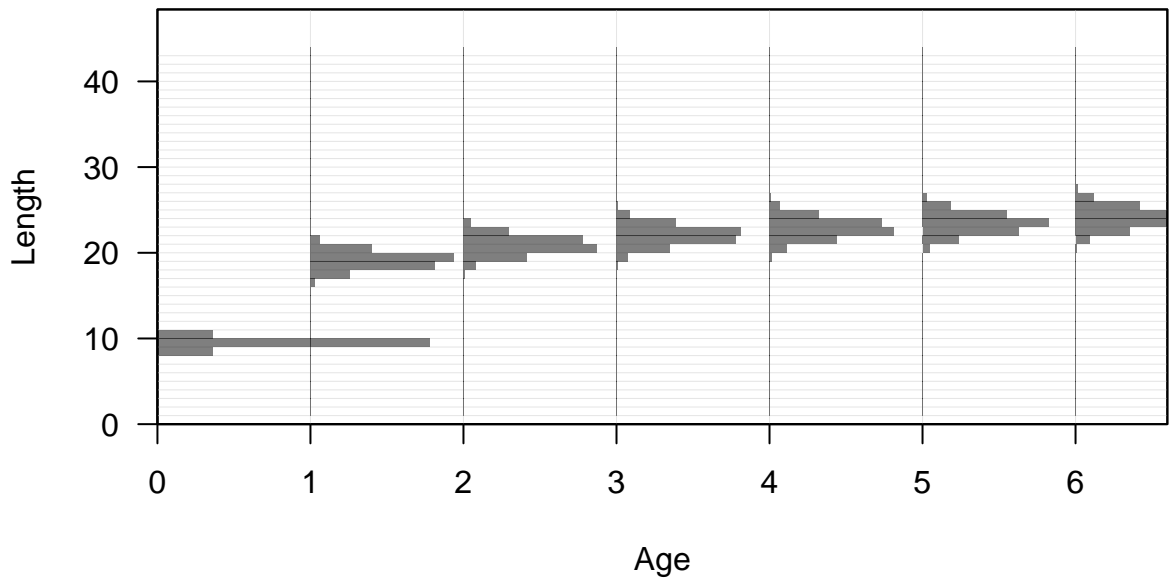


Age (yr)













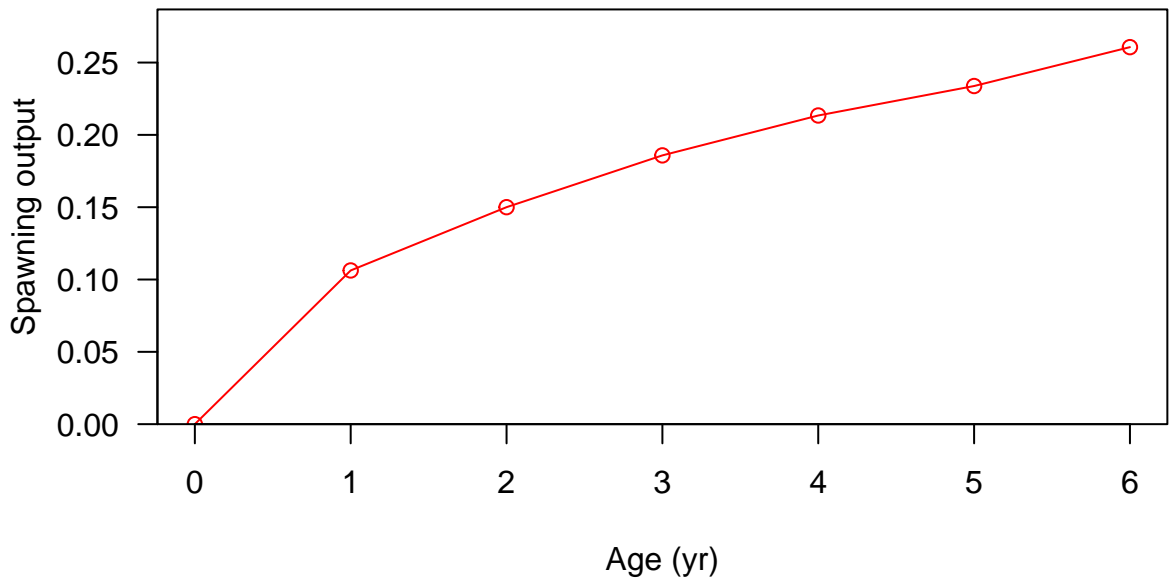




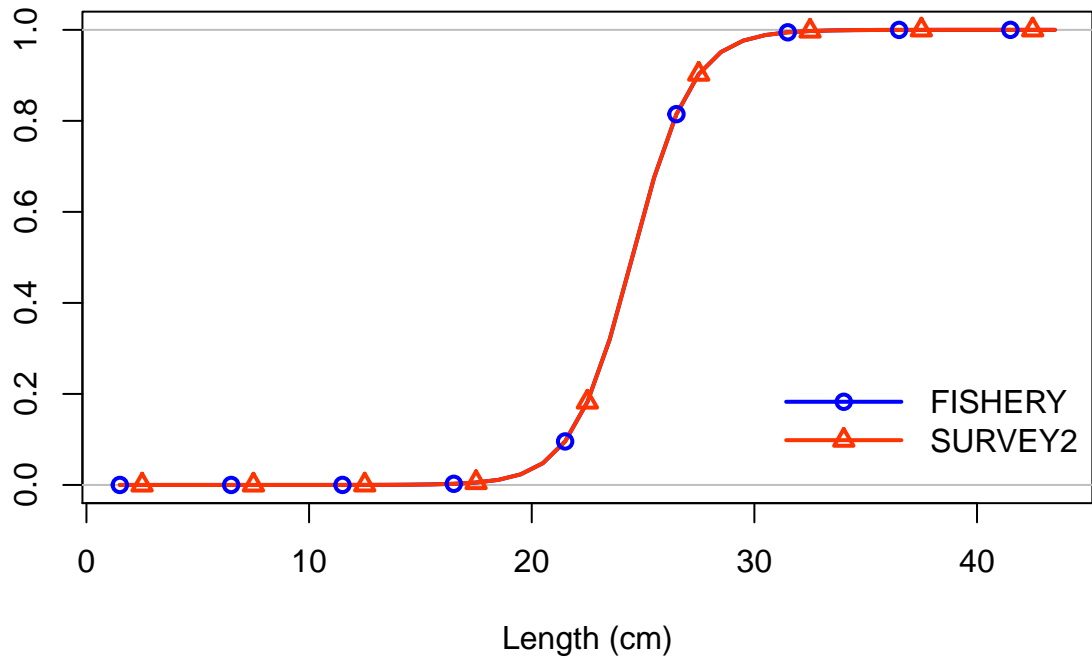




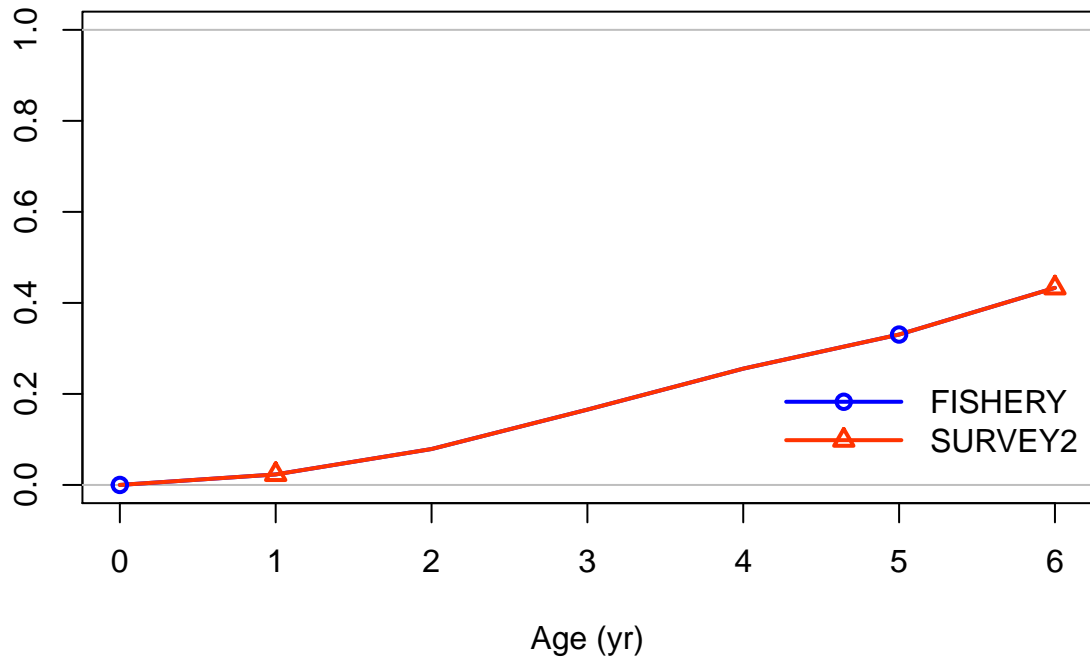




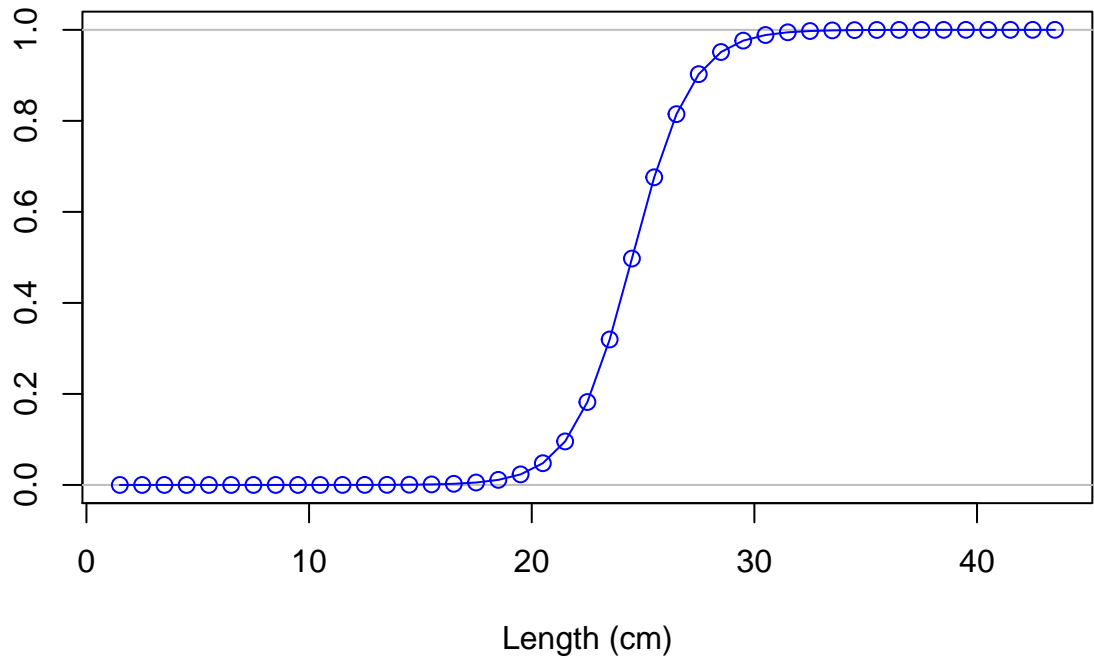
Selectivity



Selectivity

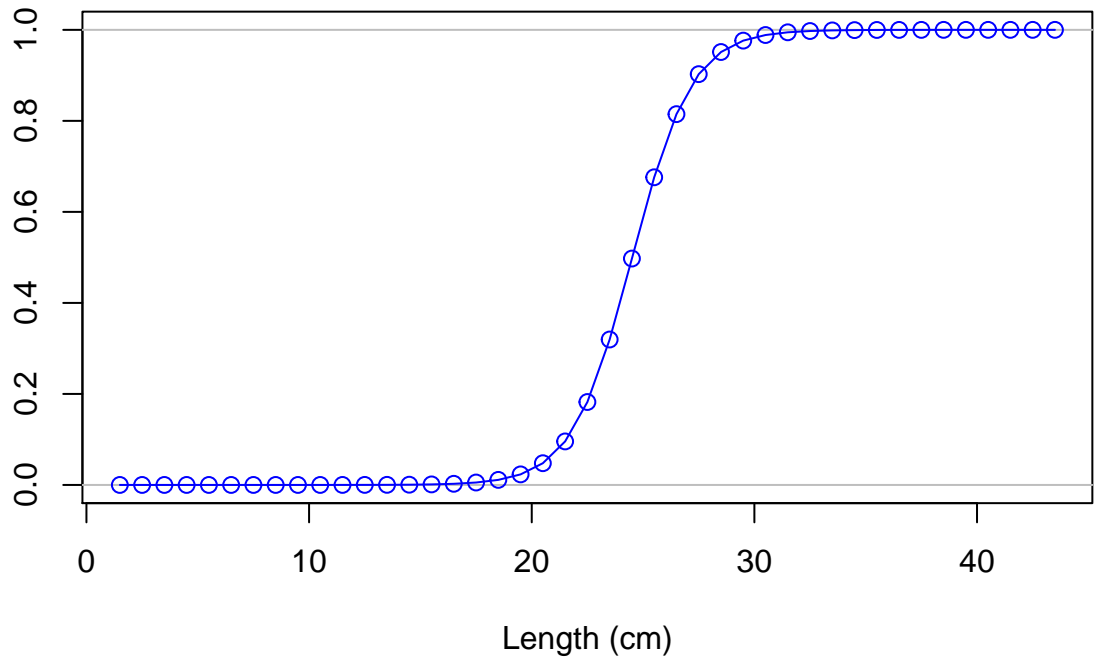


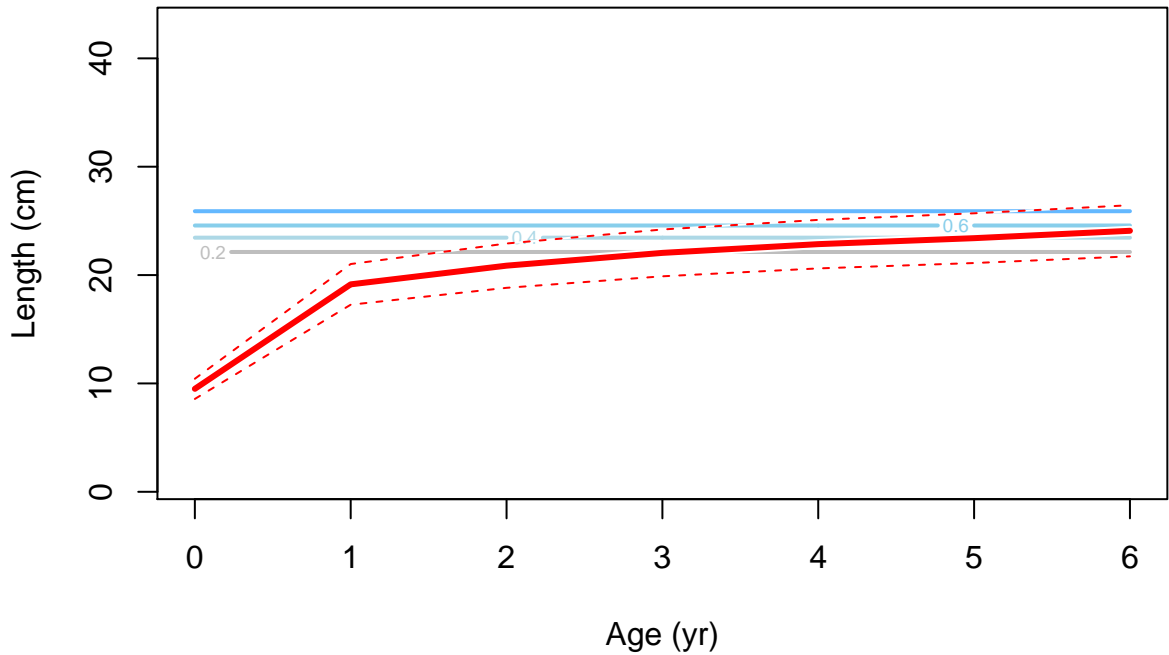
Selectivity

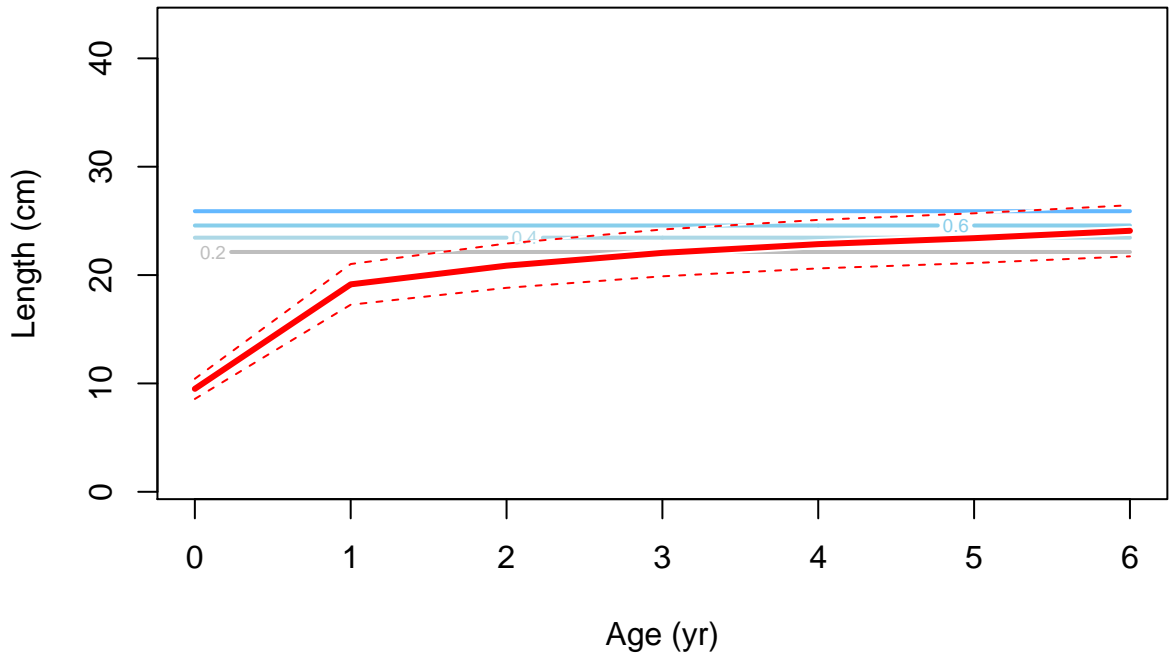




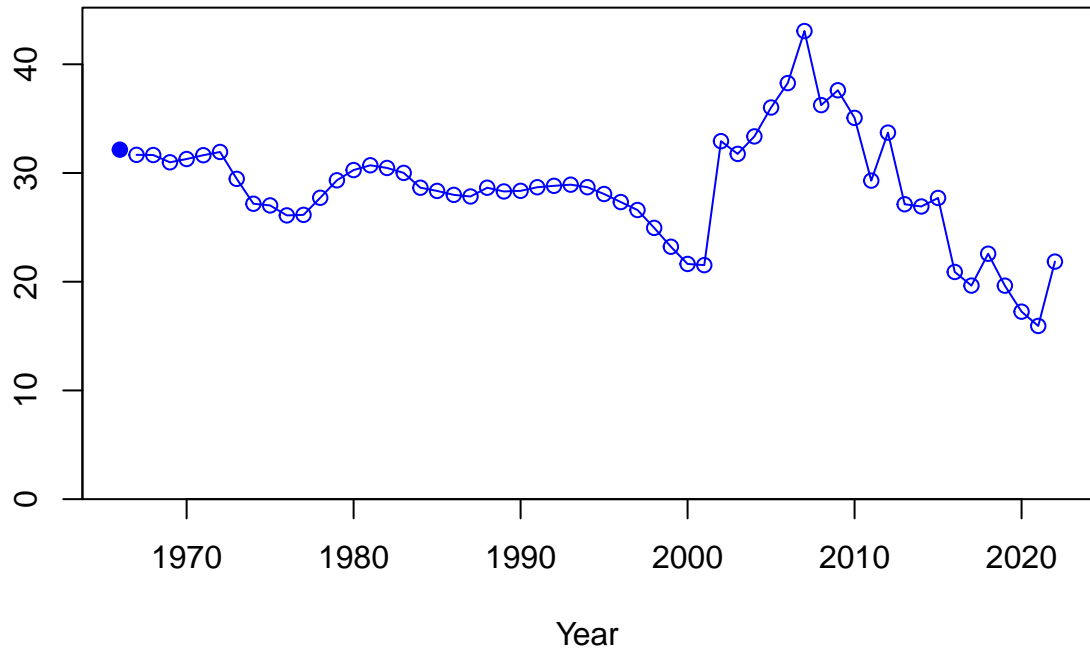
Selectivity



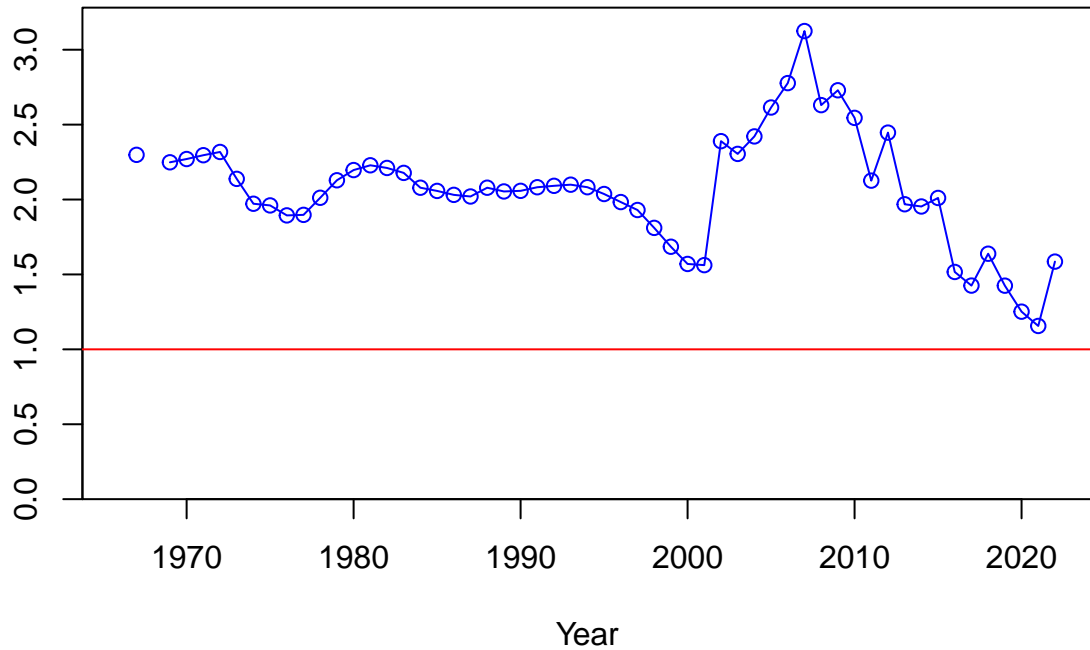


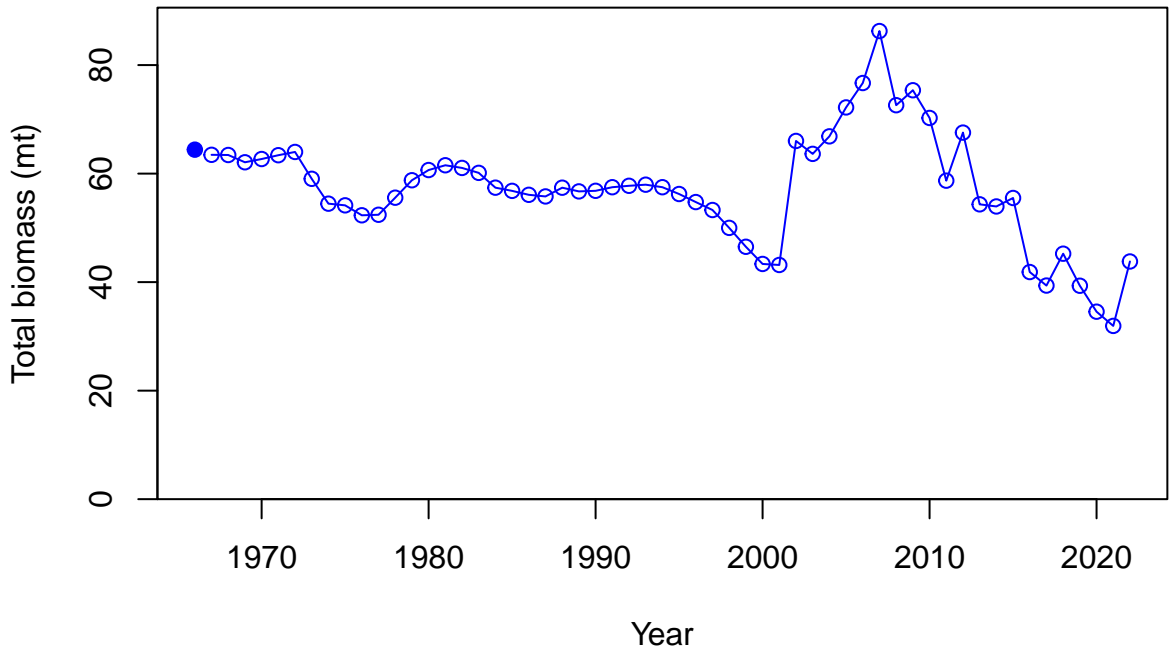


Spawning biomass (mt)

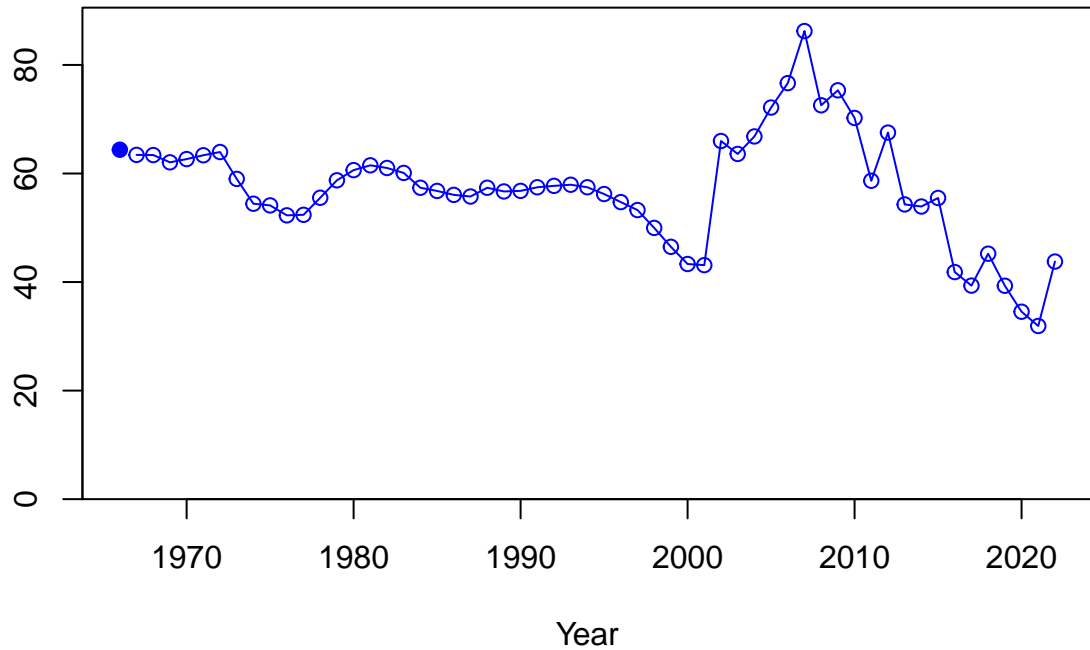


Relative spawning biomass:  $B/B_{MSY}$

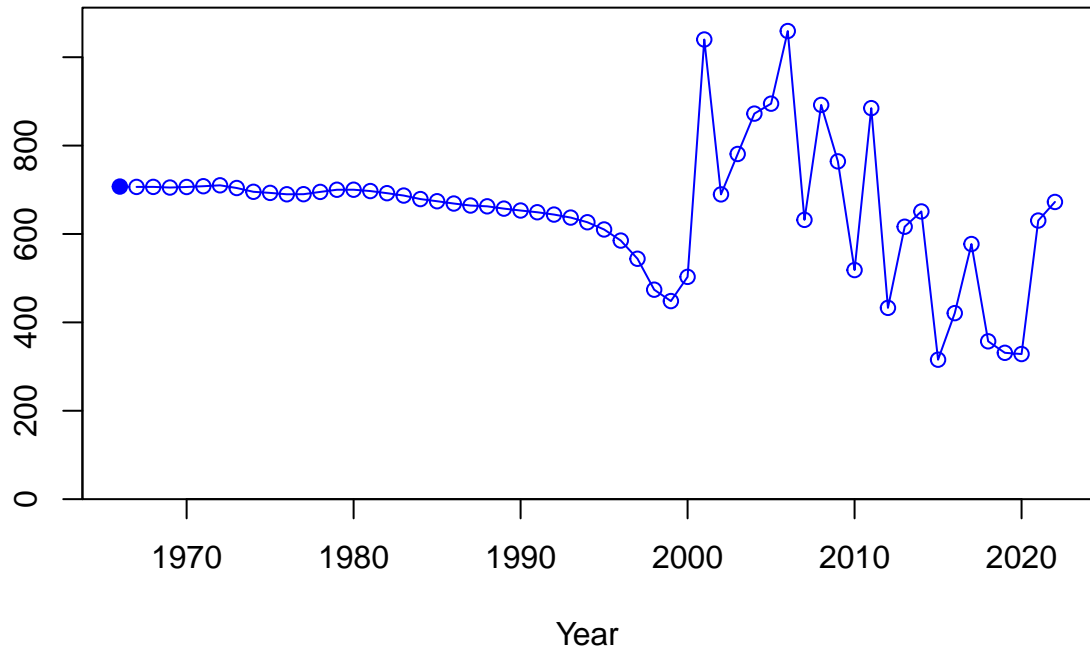




Summary biomass (mt)

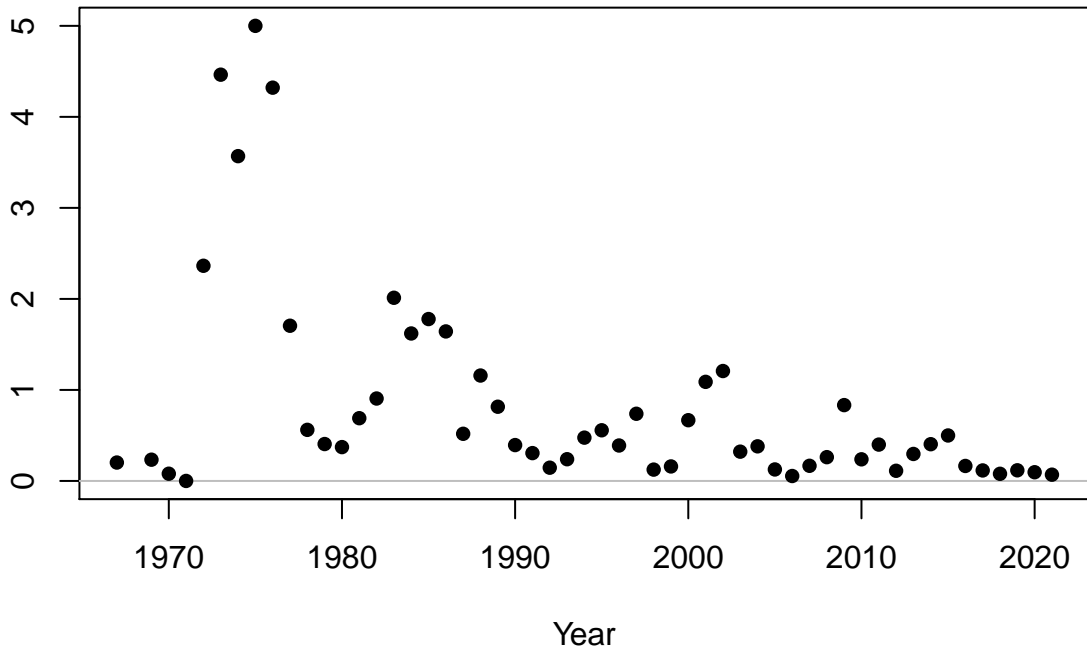


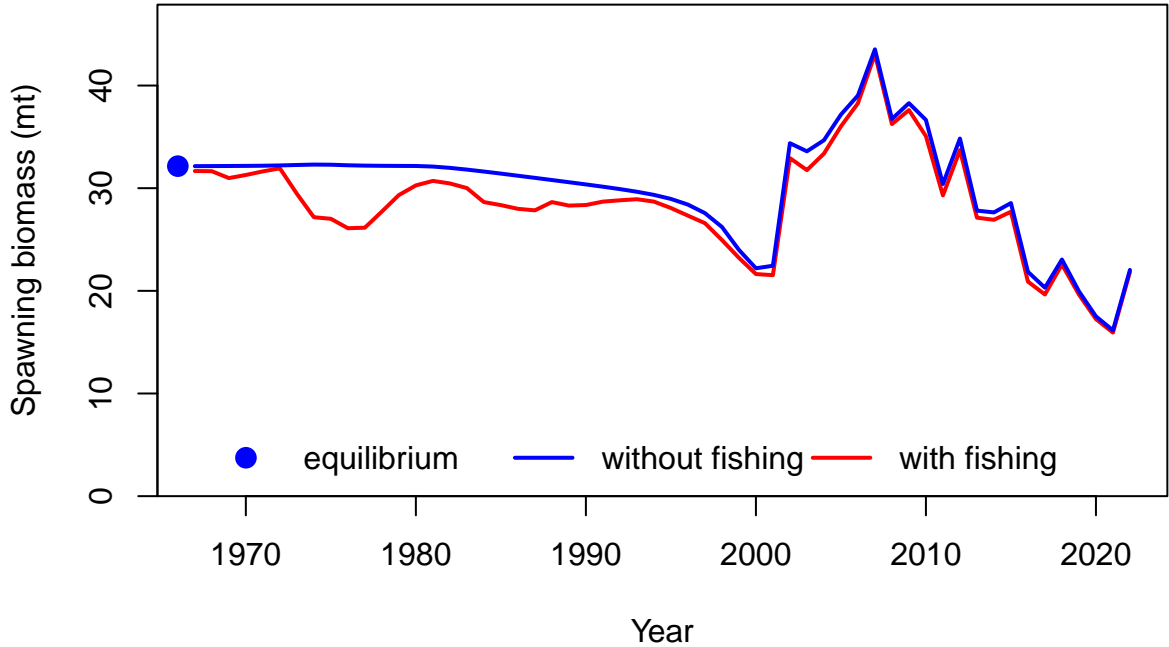
Age-0 recruits (1,000s)



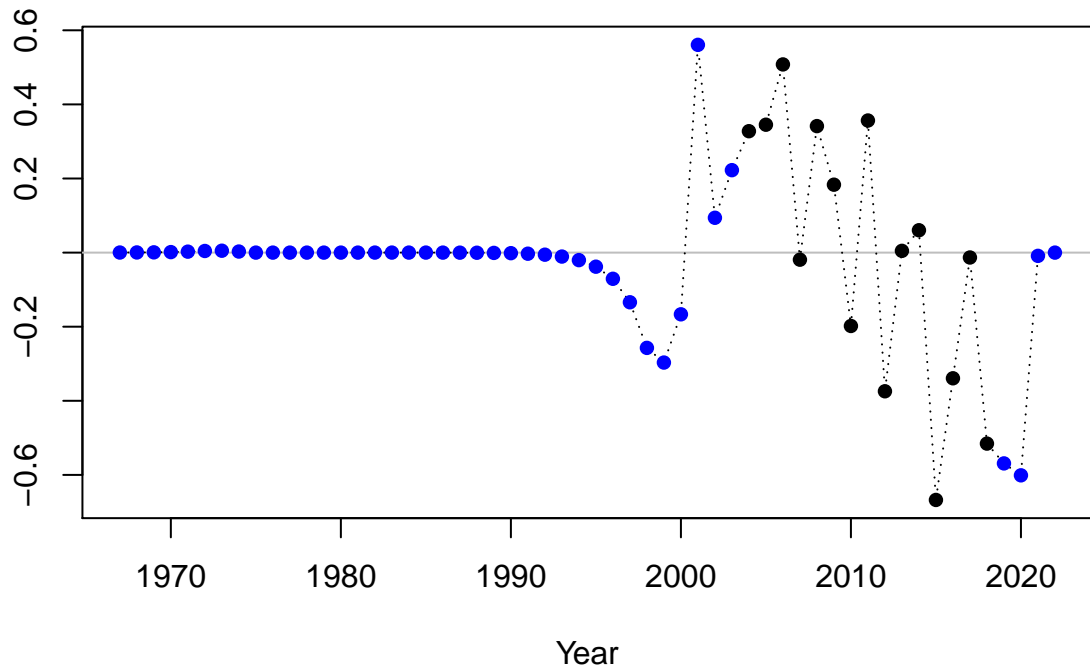


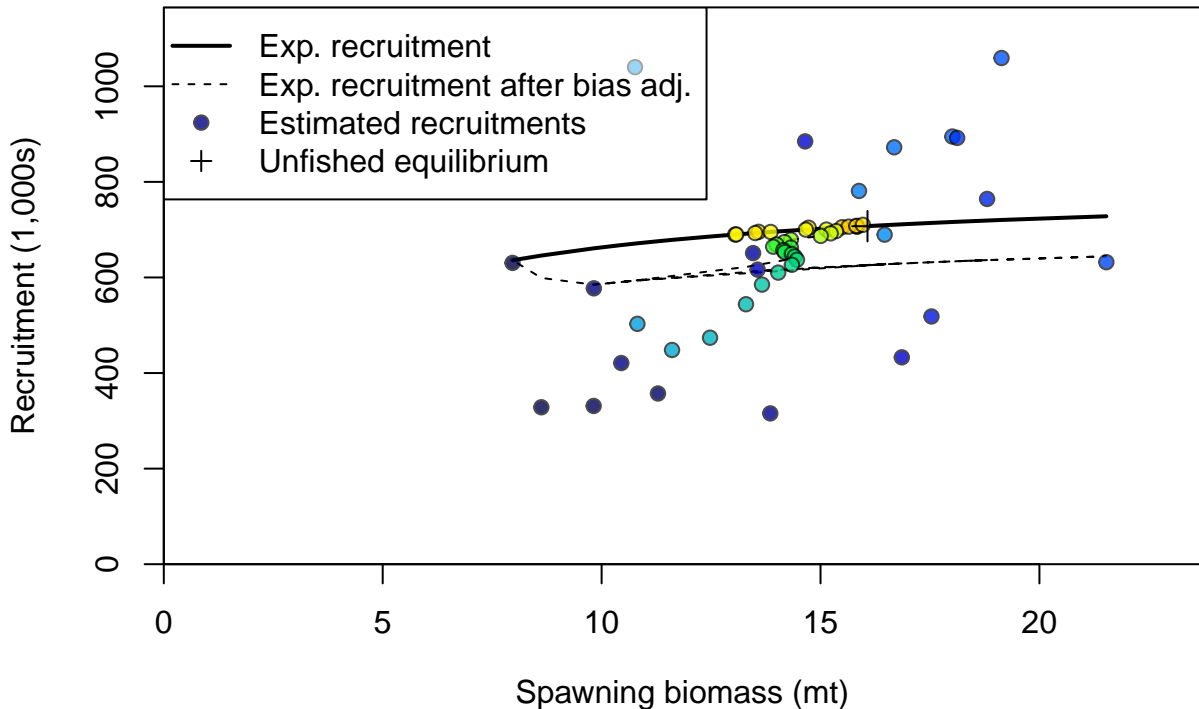
Summary Fishing Mortality

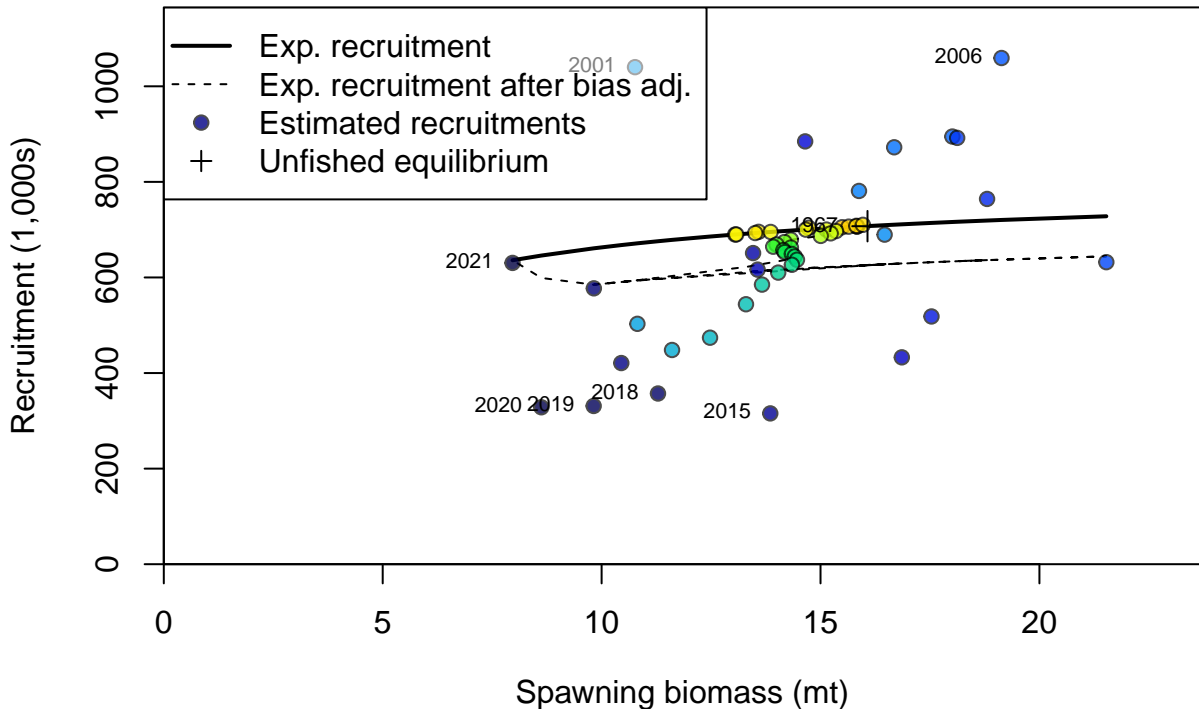




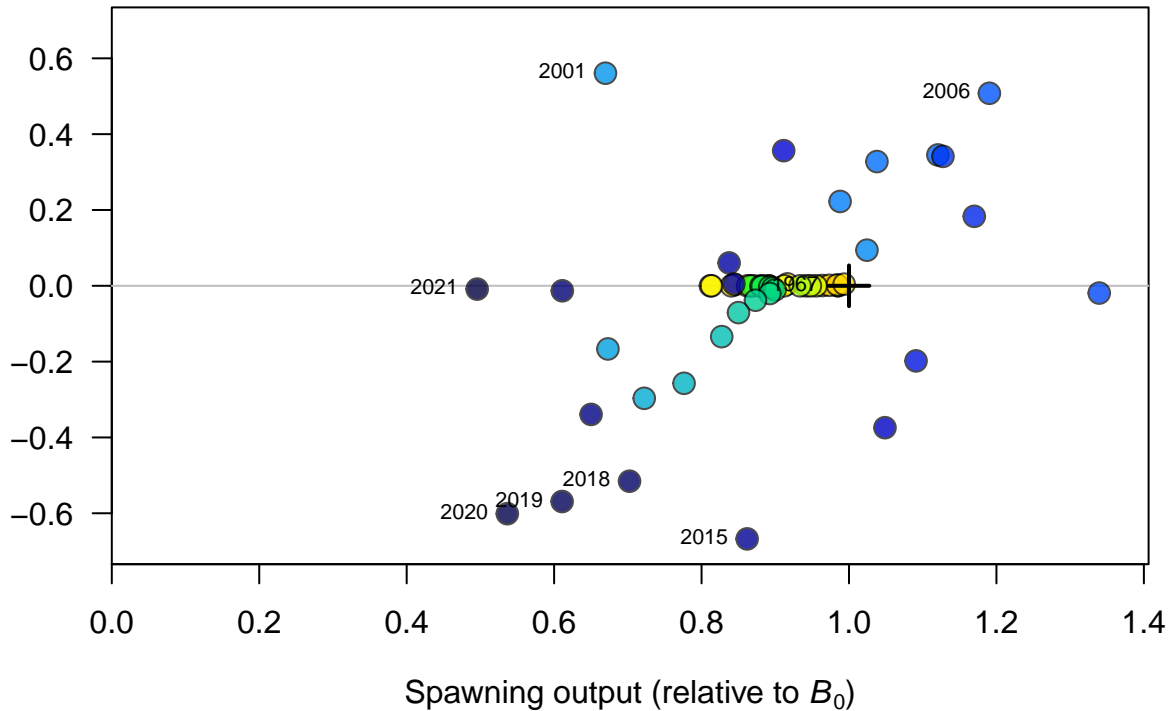
Log recruitment deviation

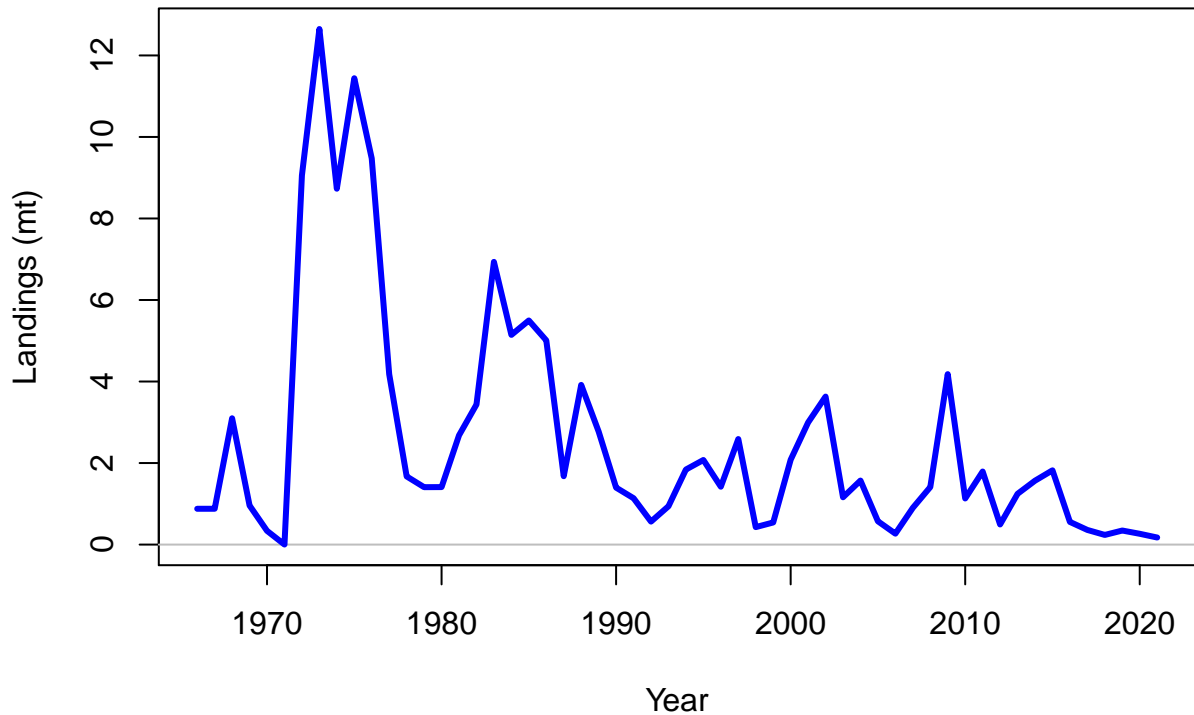


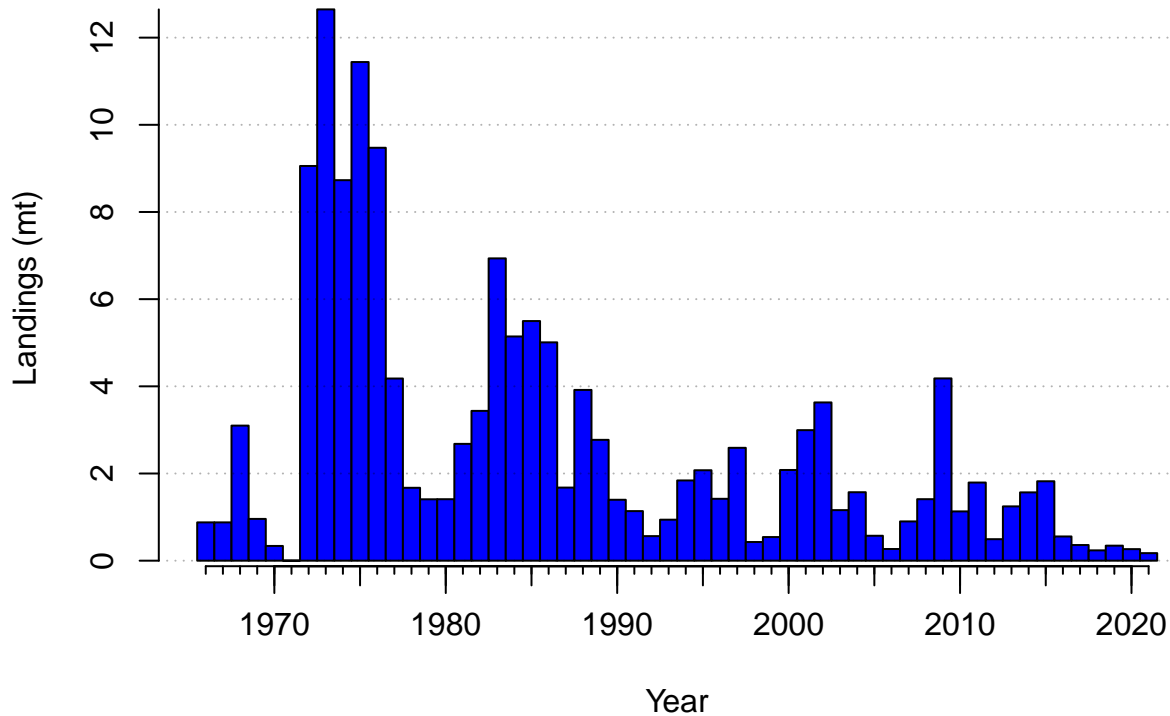




Log recruitment deviation

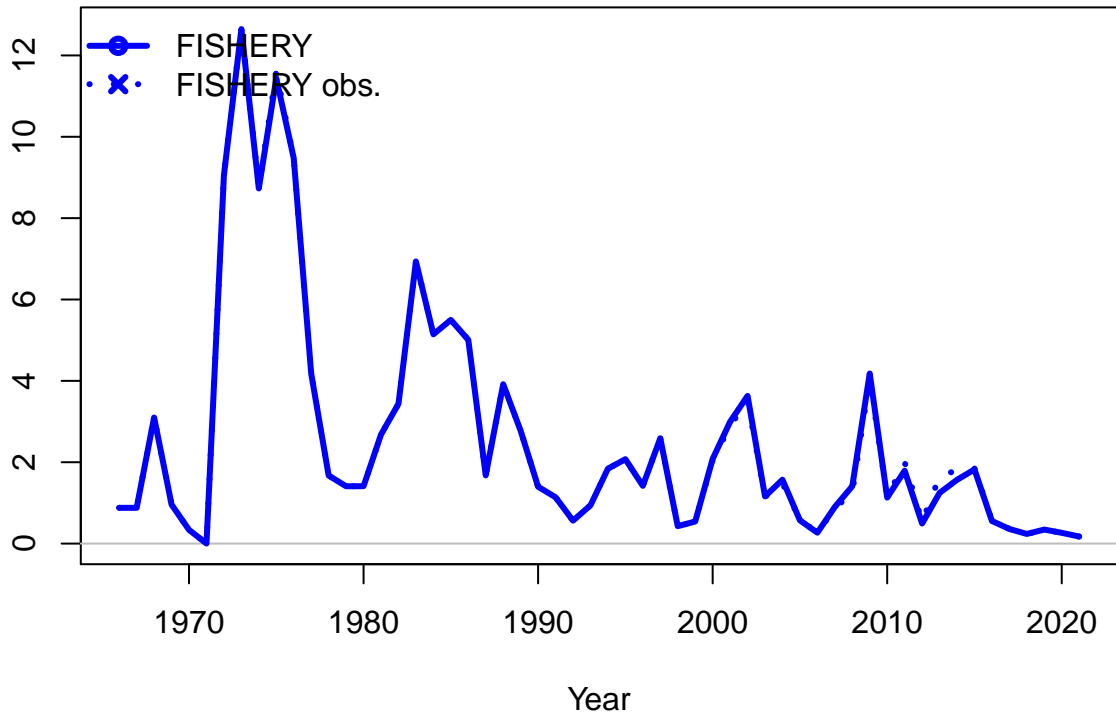


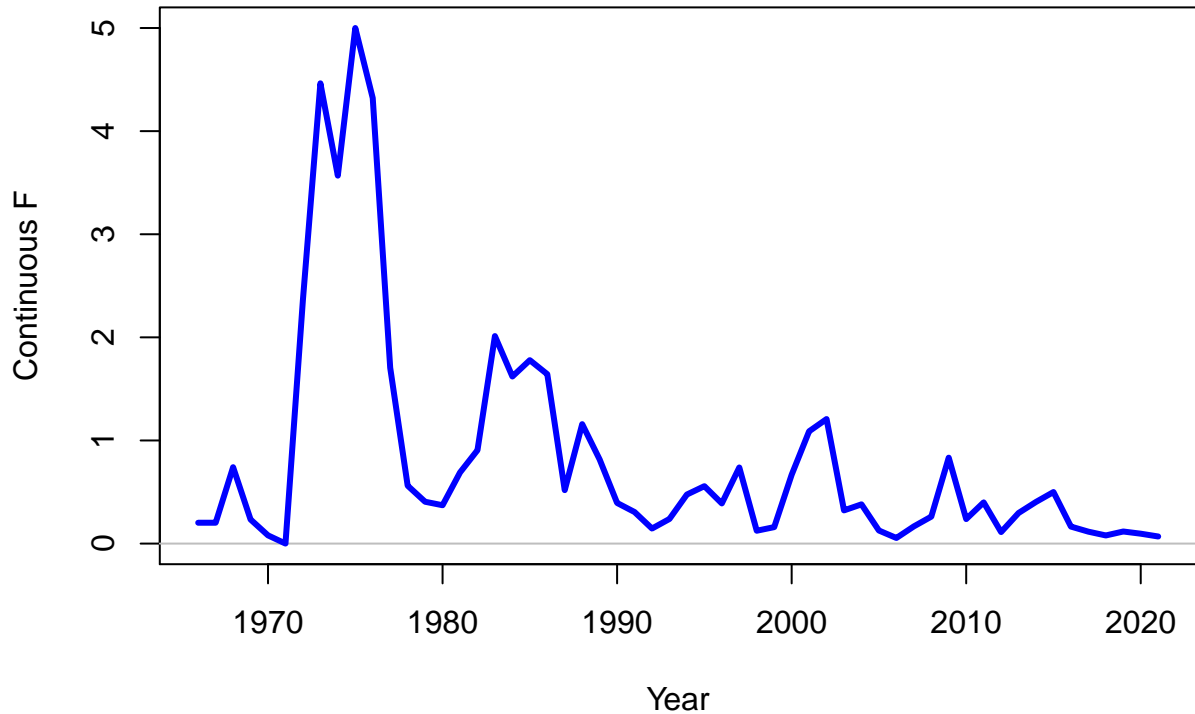




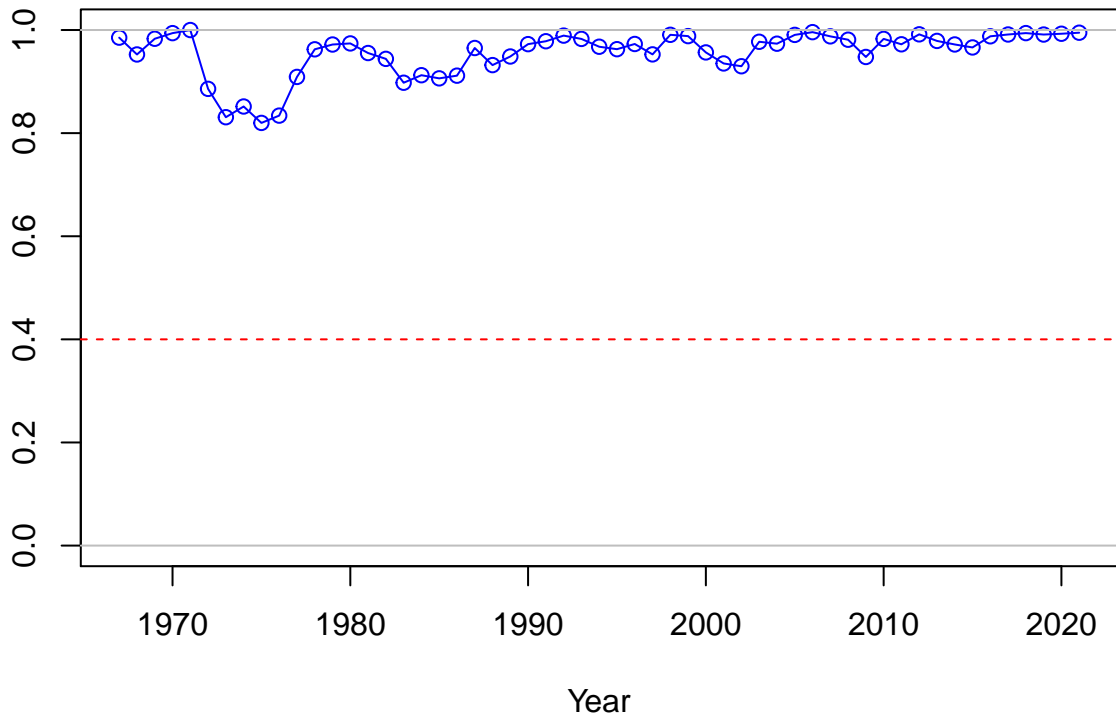


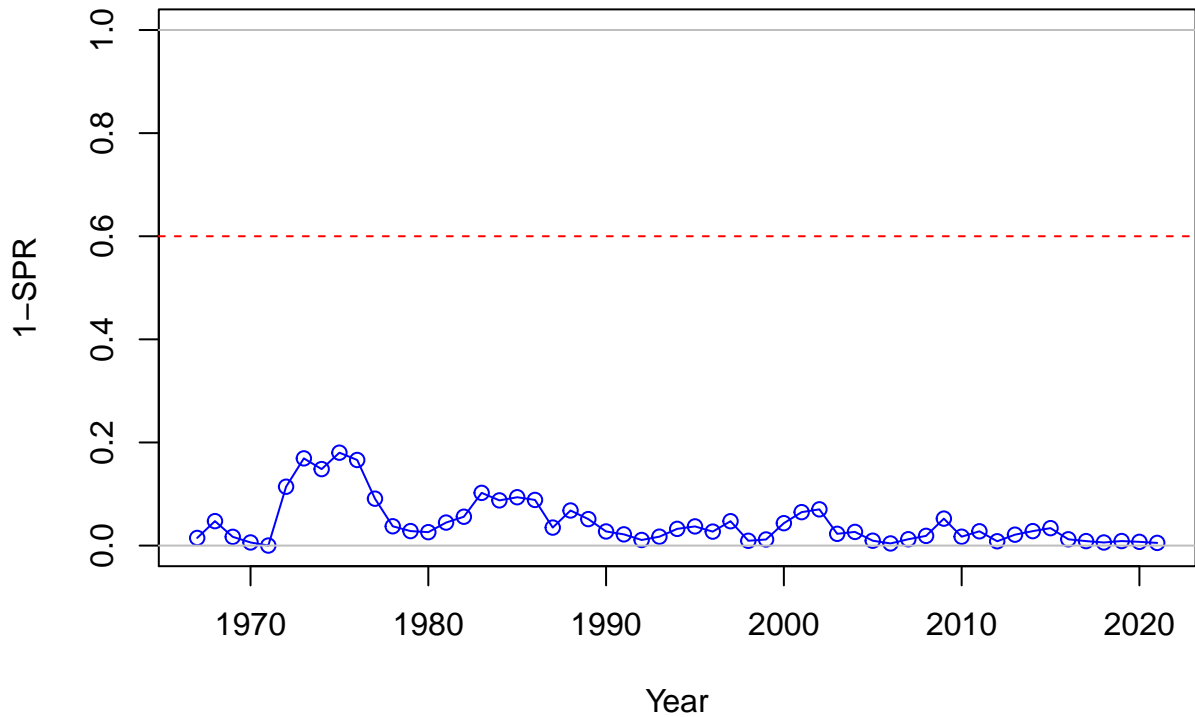
Observed and expected Landings (mt)



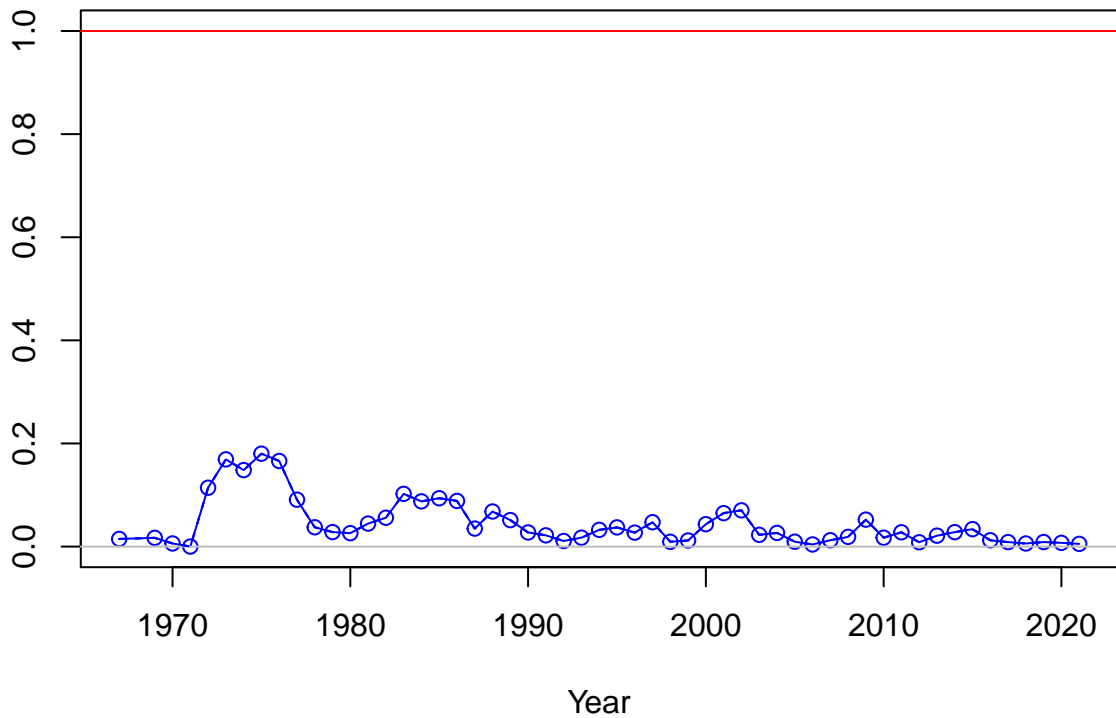


SPR

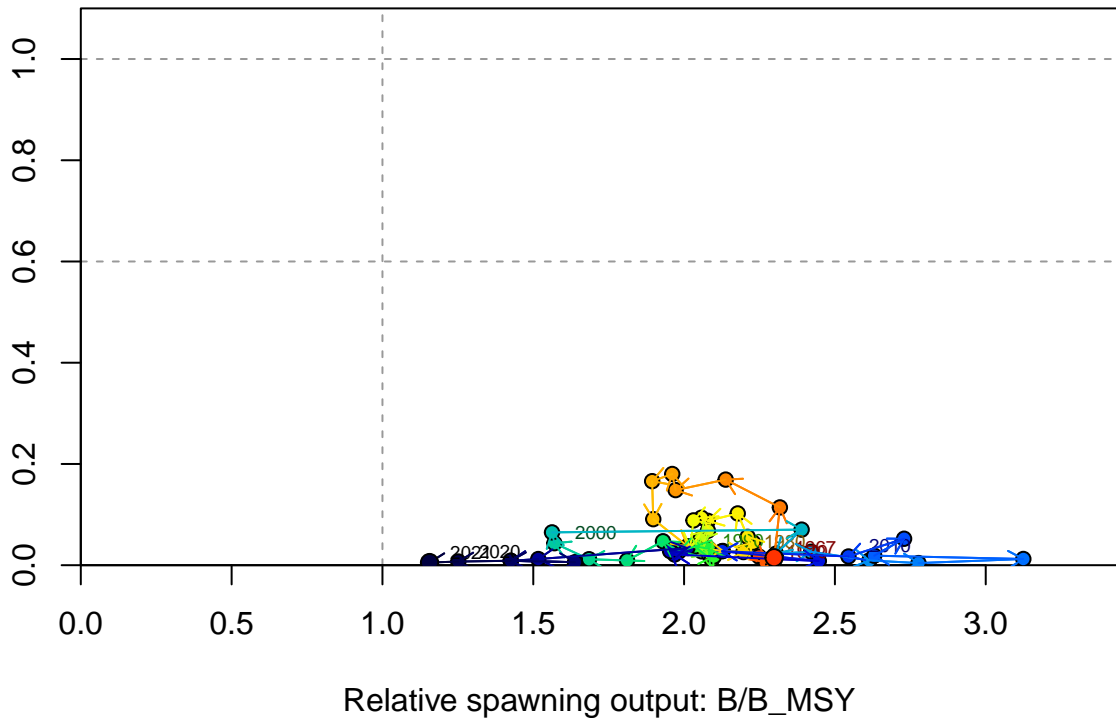




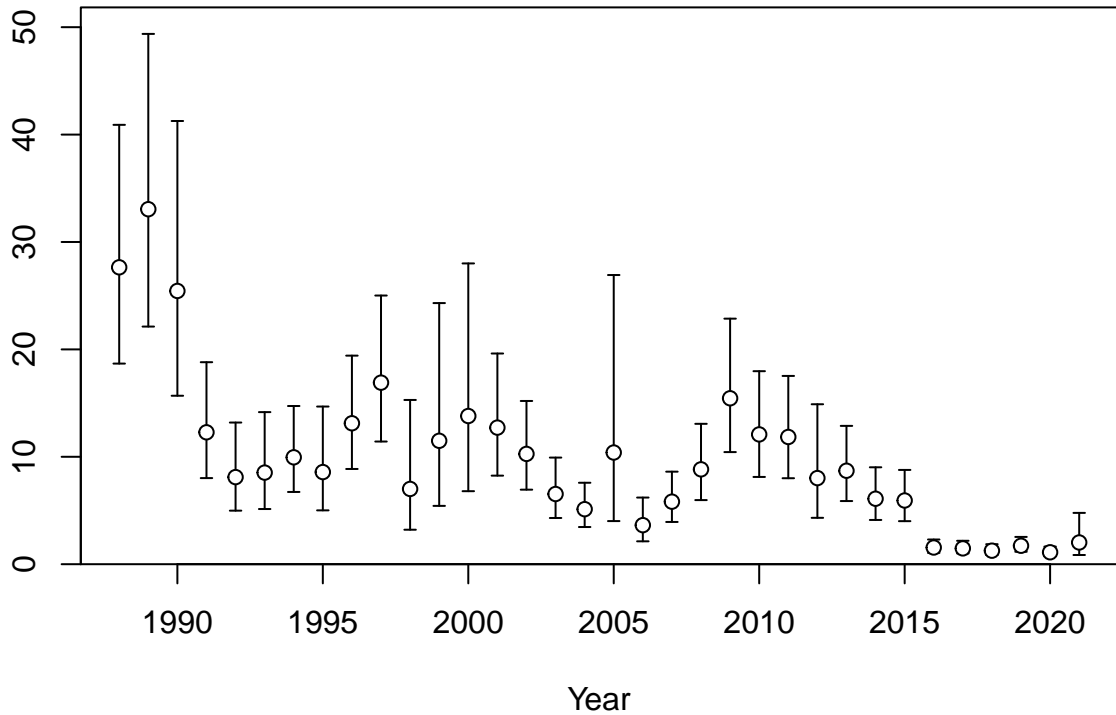
Fishing intensity: 1-SPR



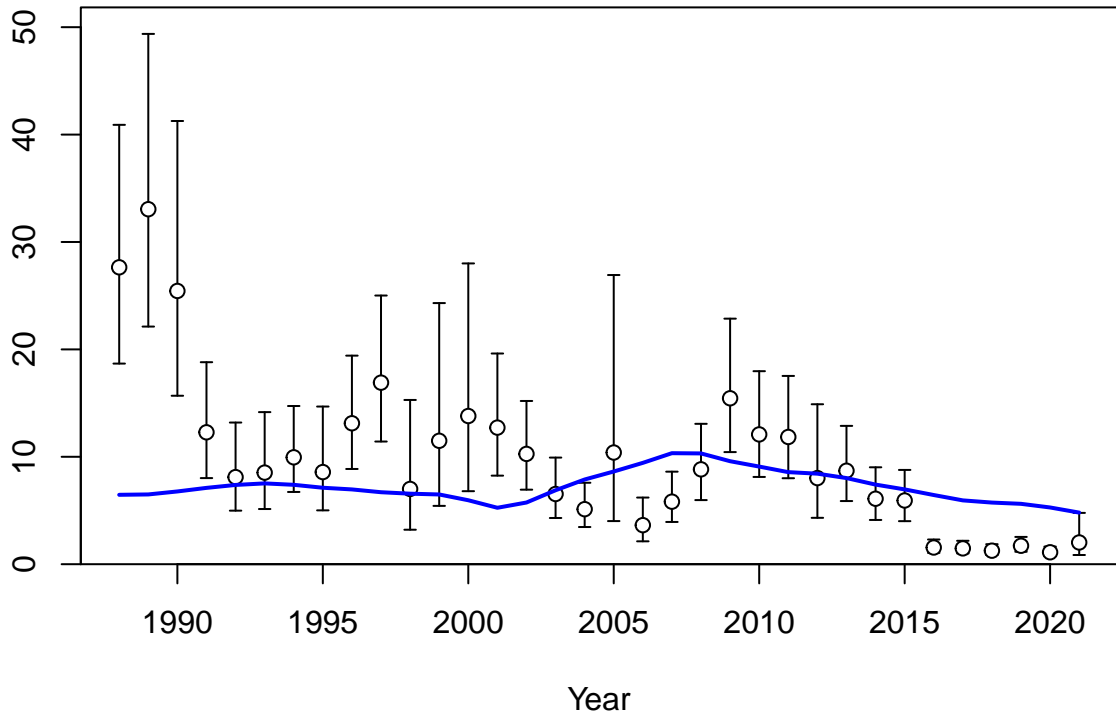
Fishing intensity: 1-SPR



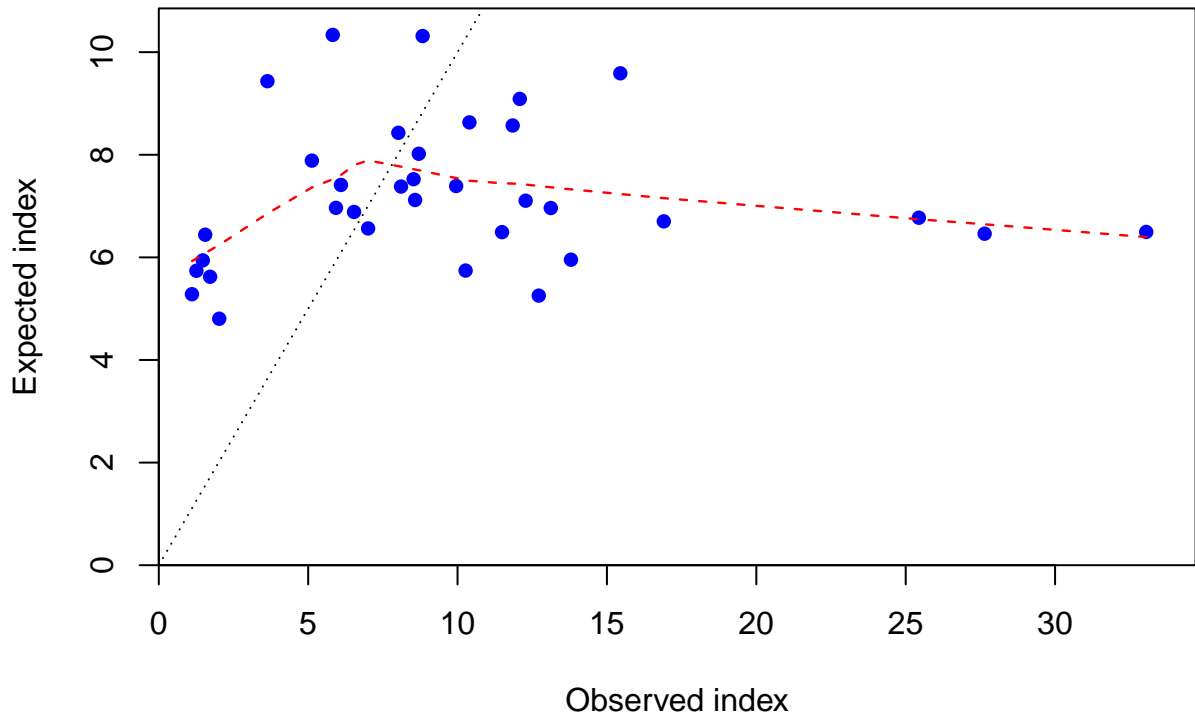
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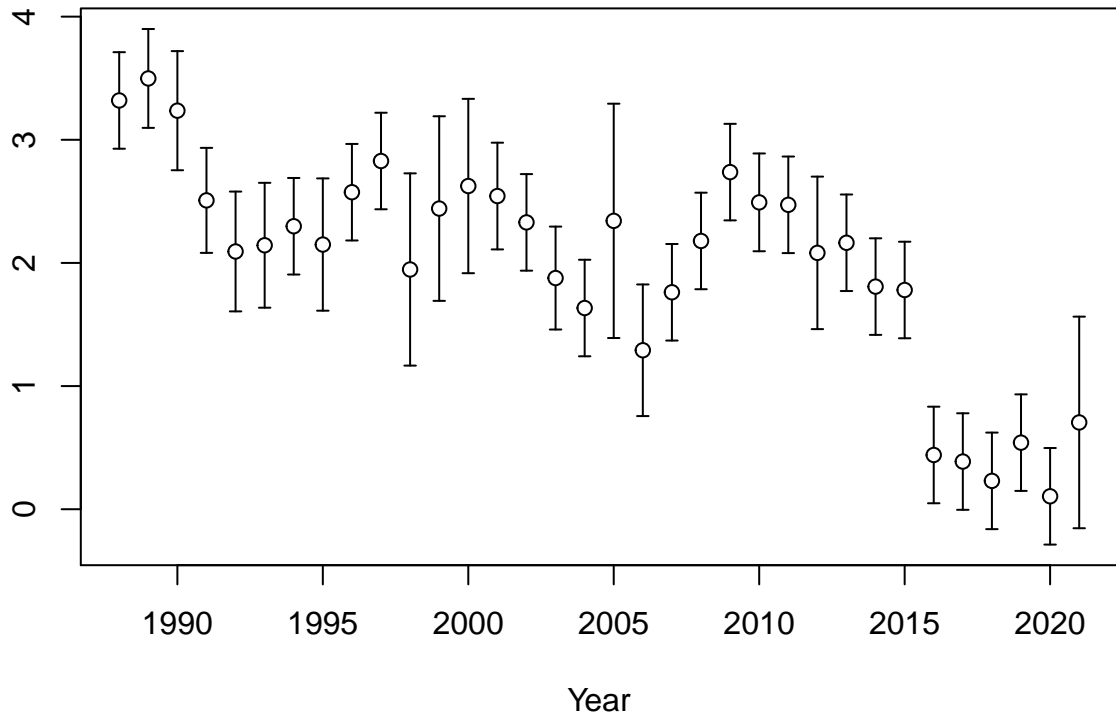
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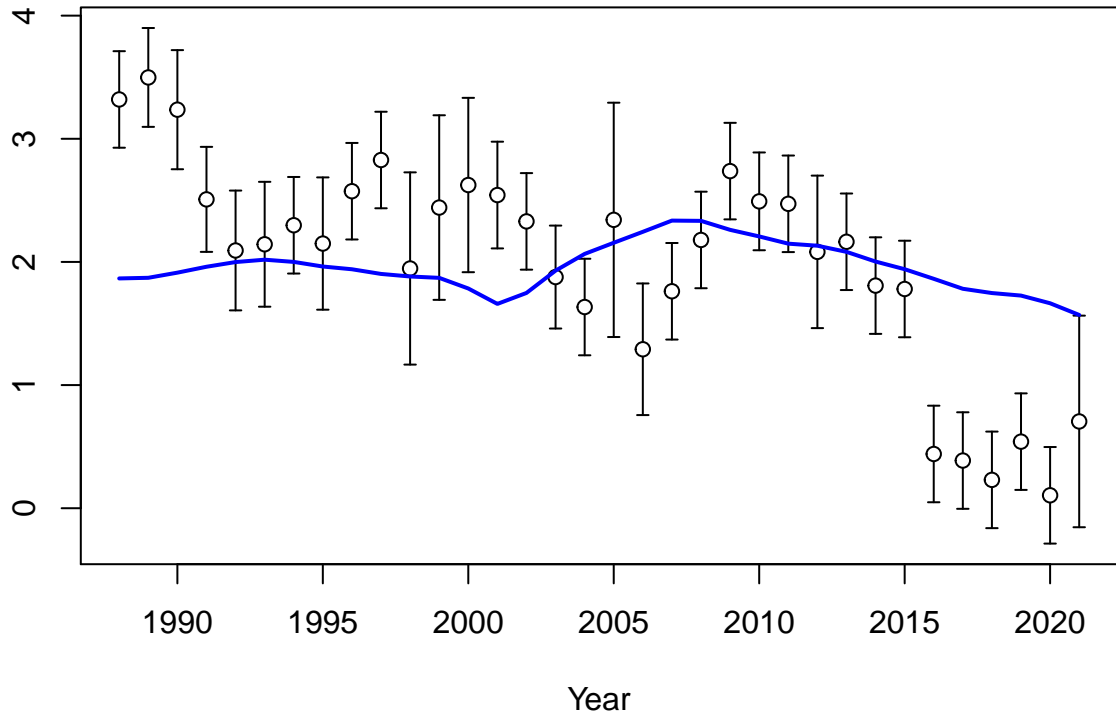


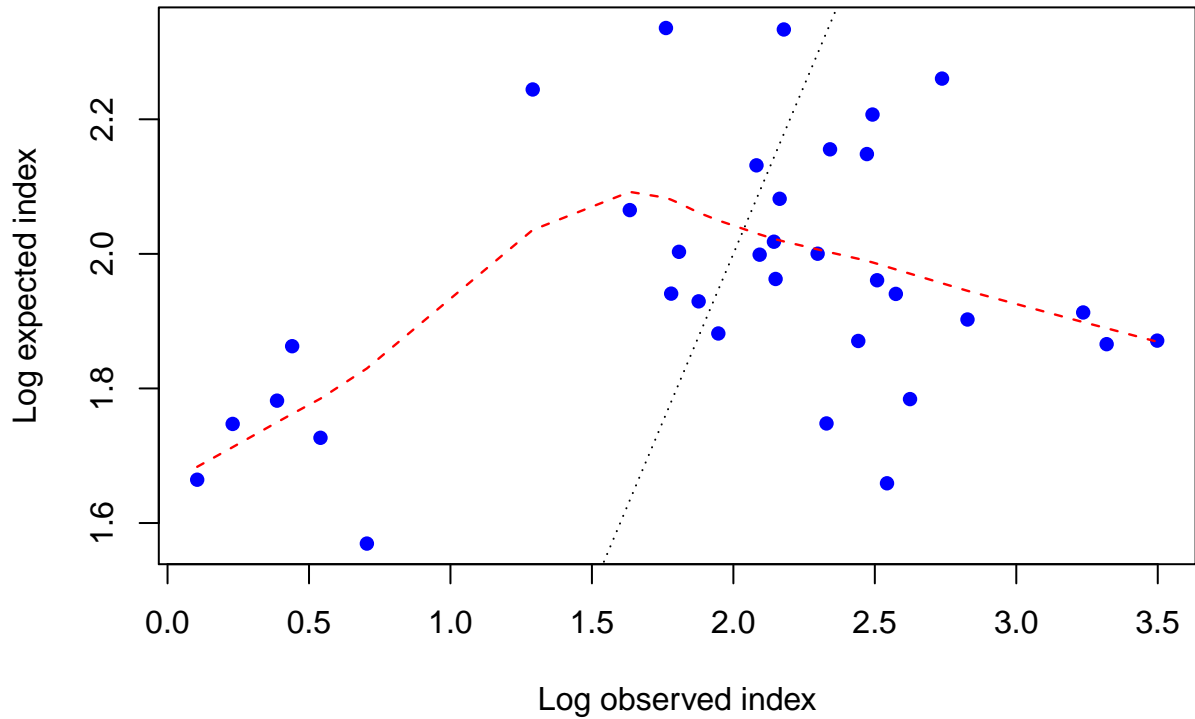


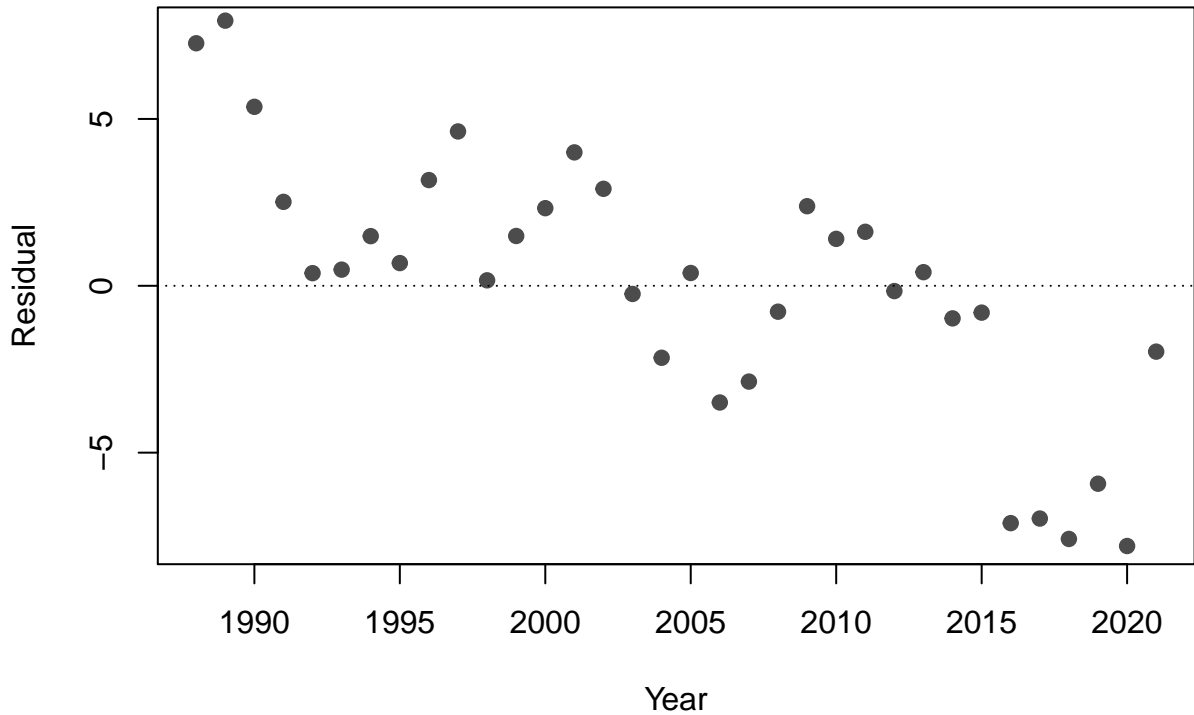
Log index

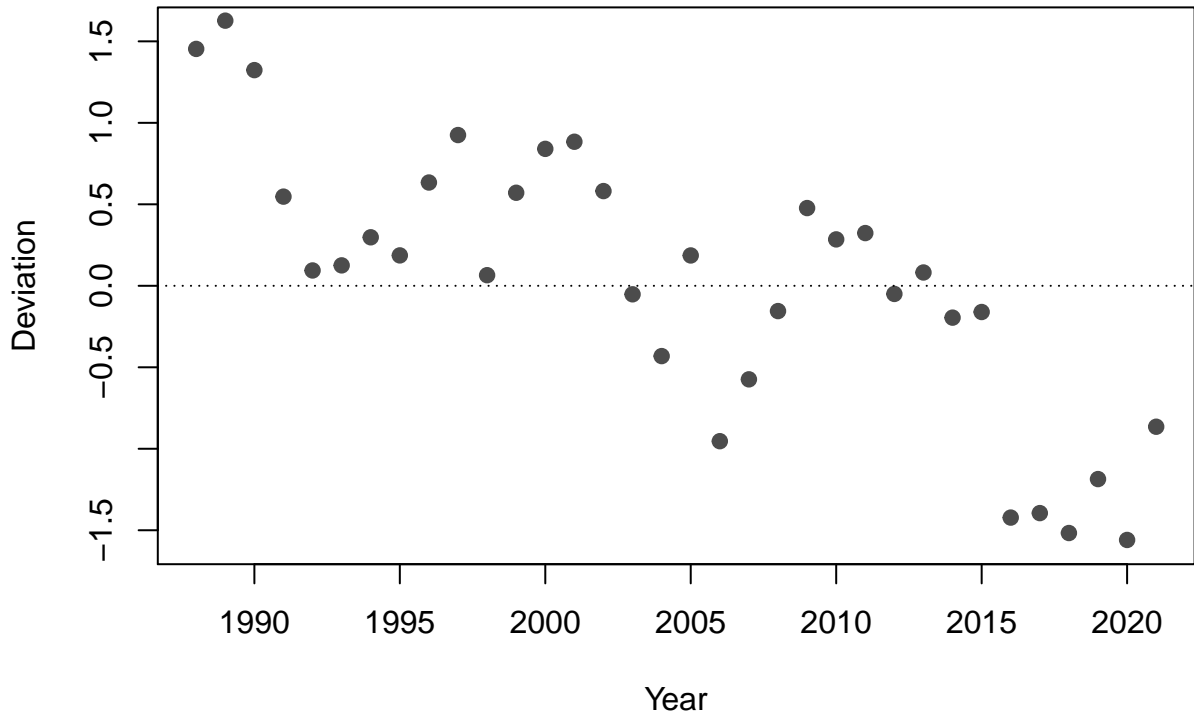


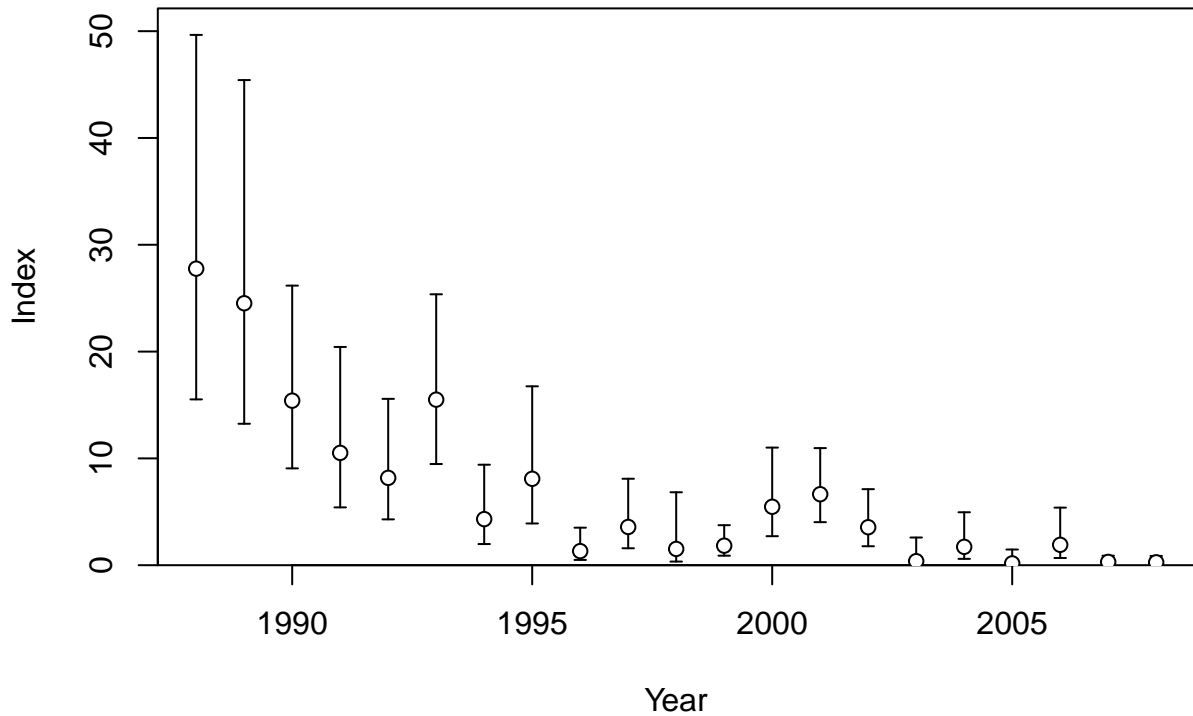
Log index

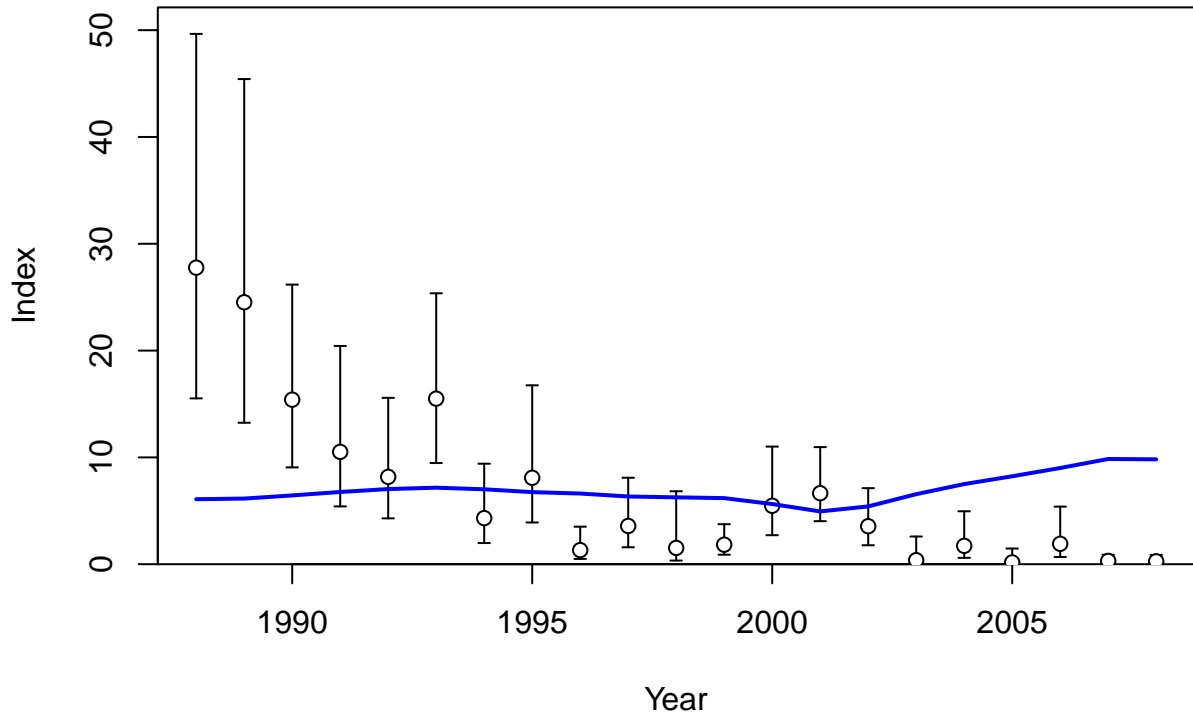




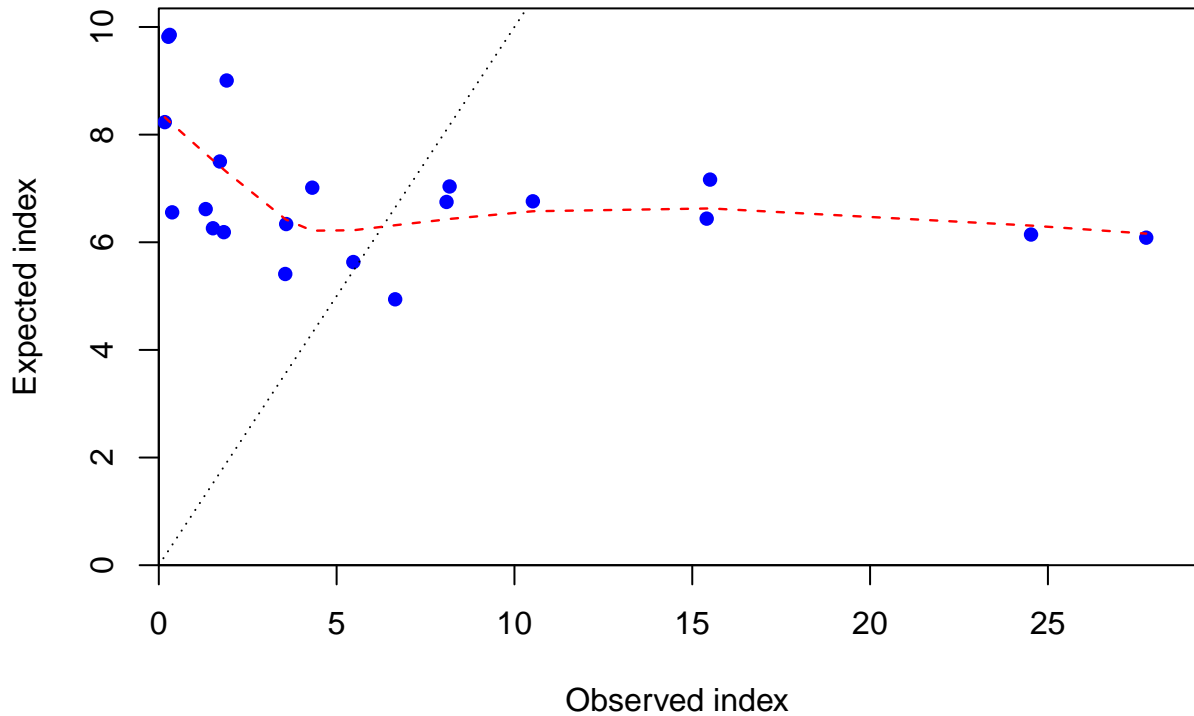


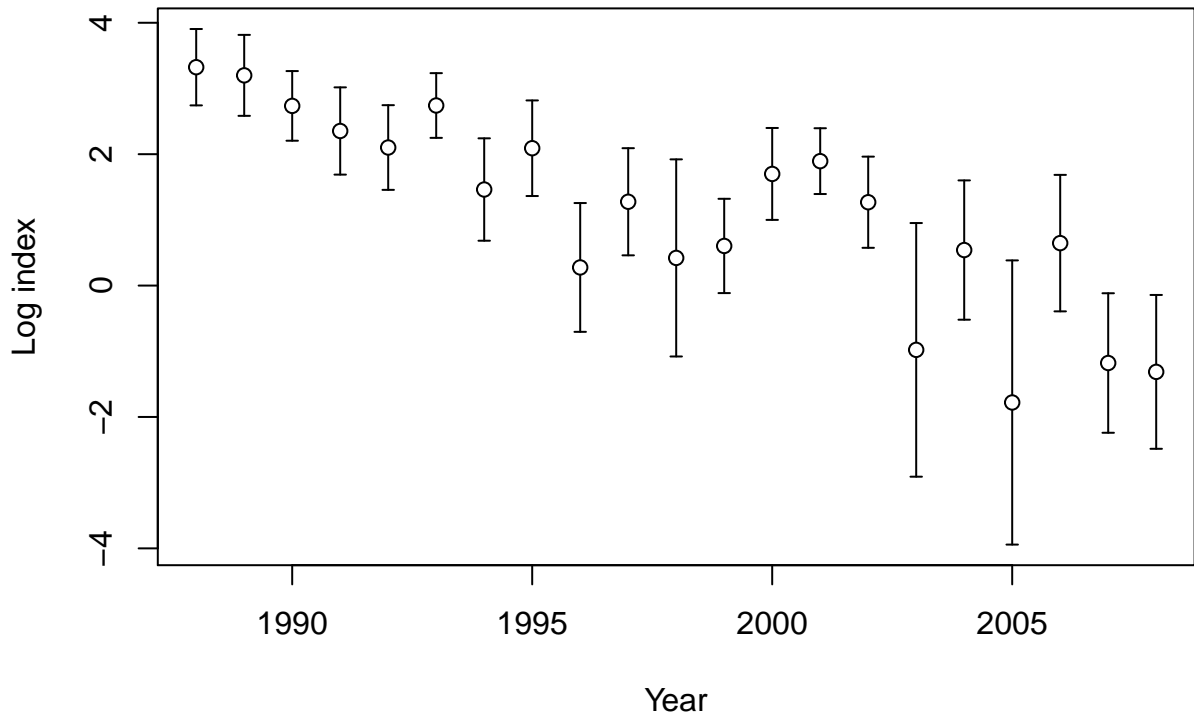




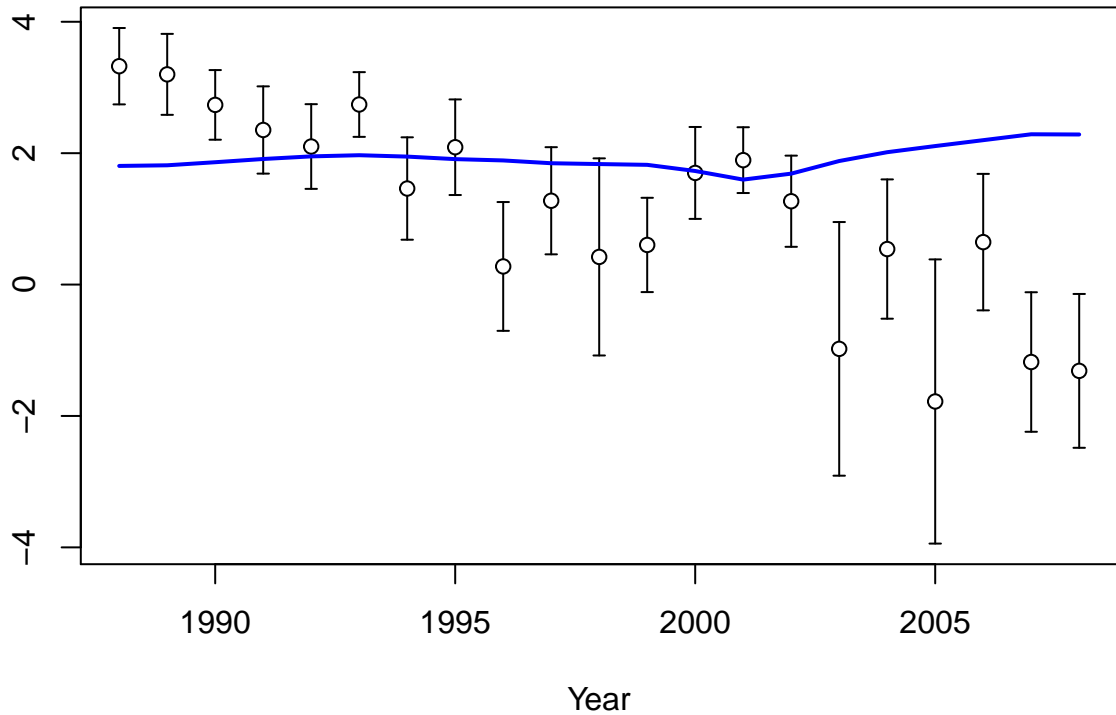




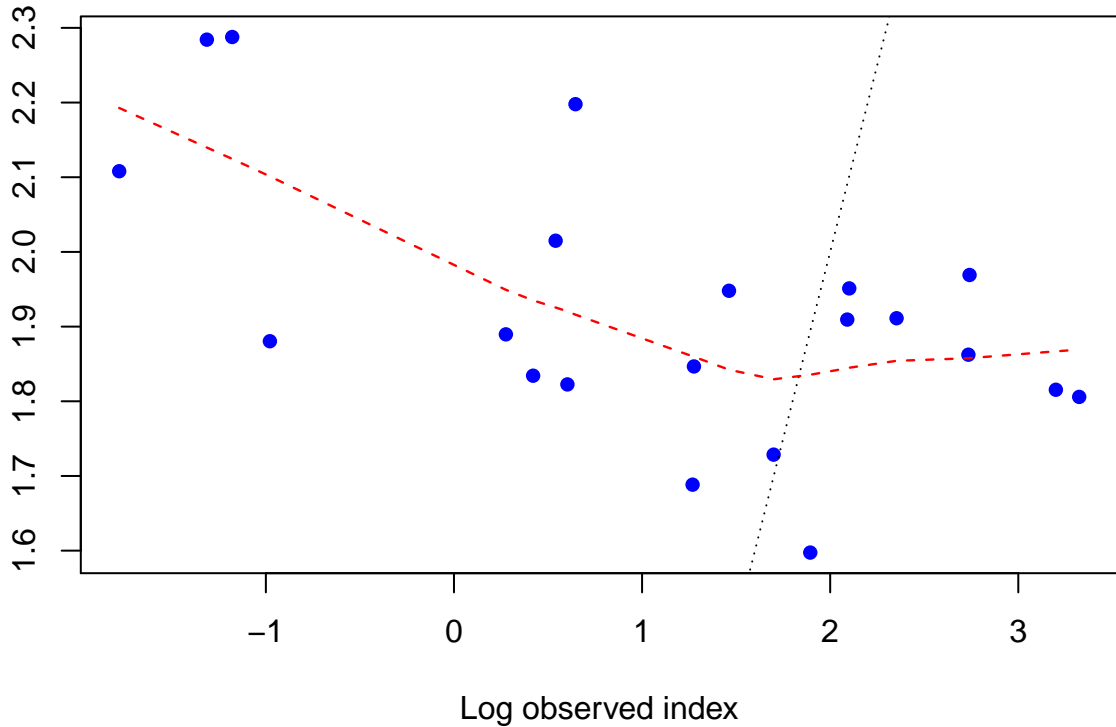


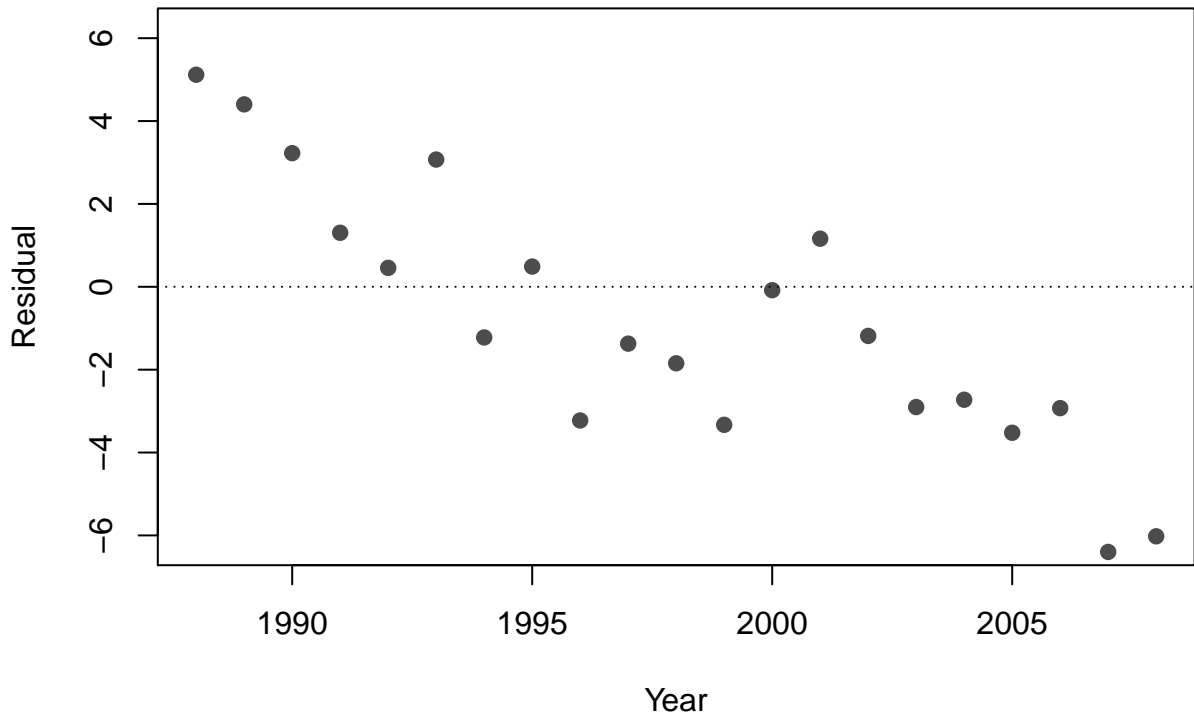


Log index

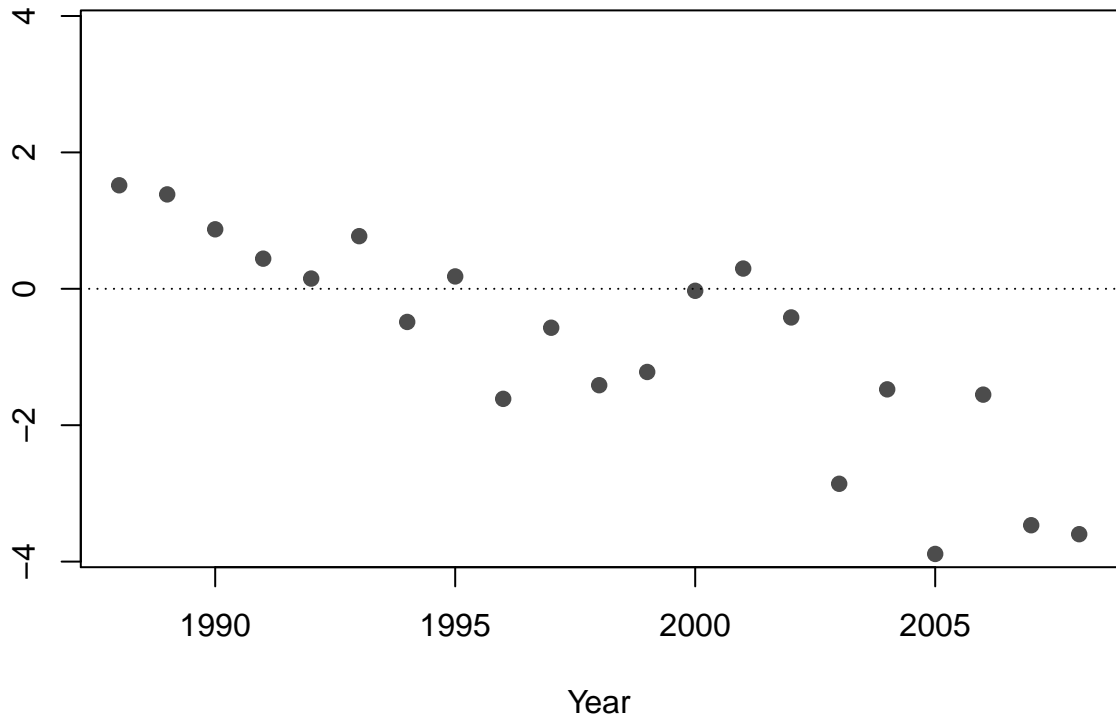


Log expected index



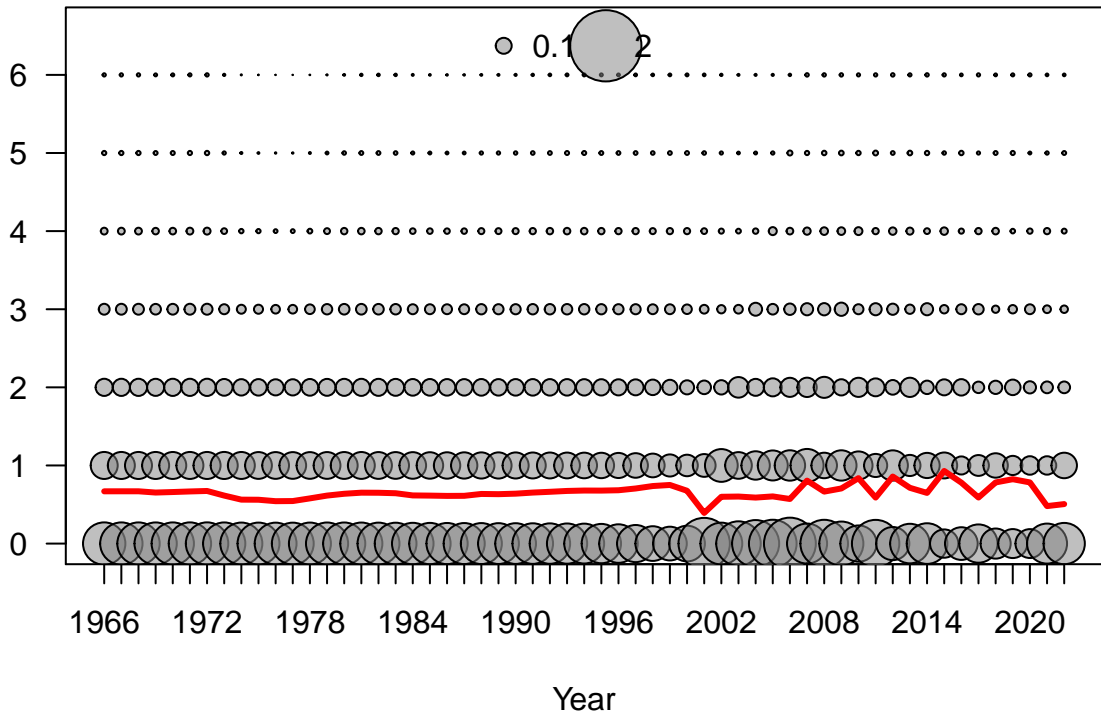


Deviation



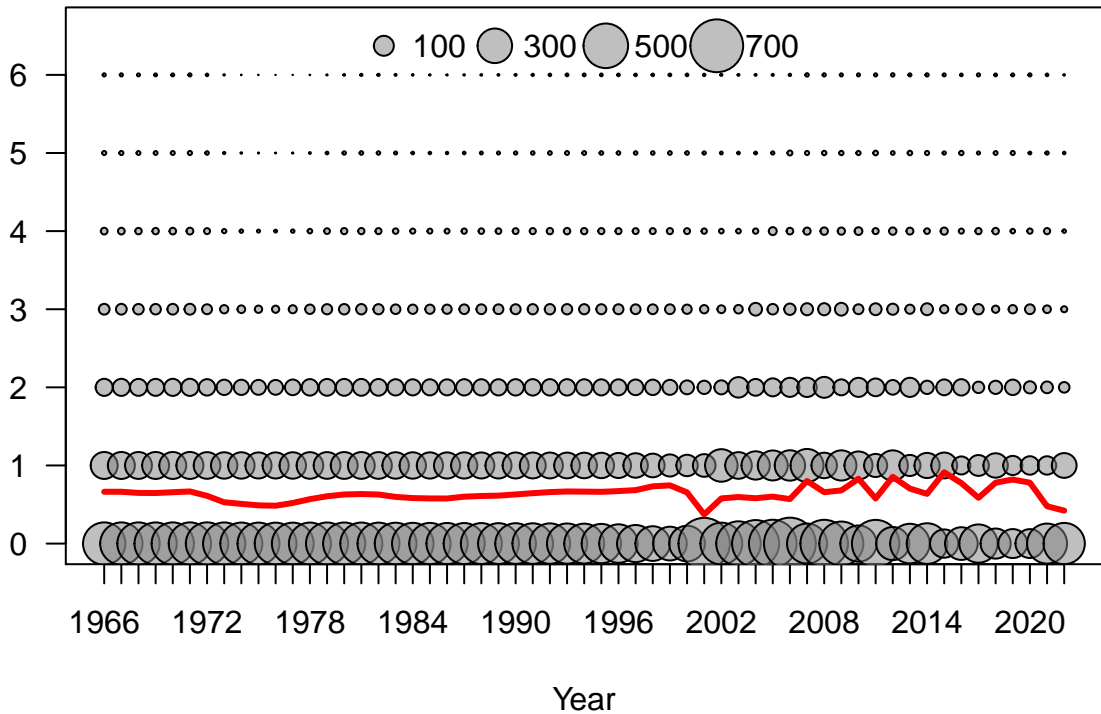


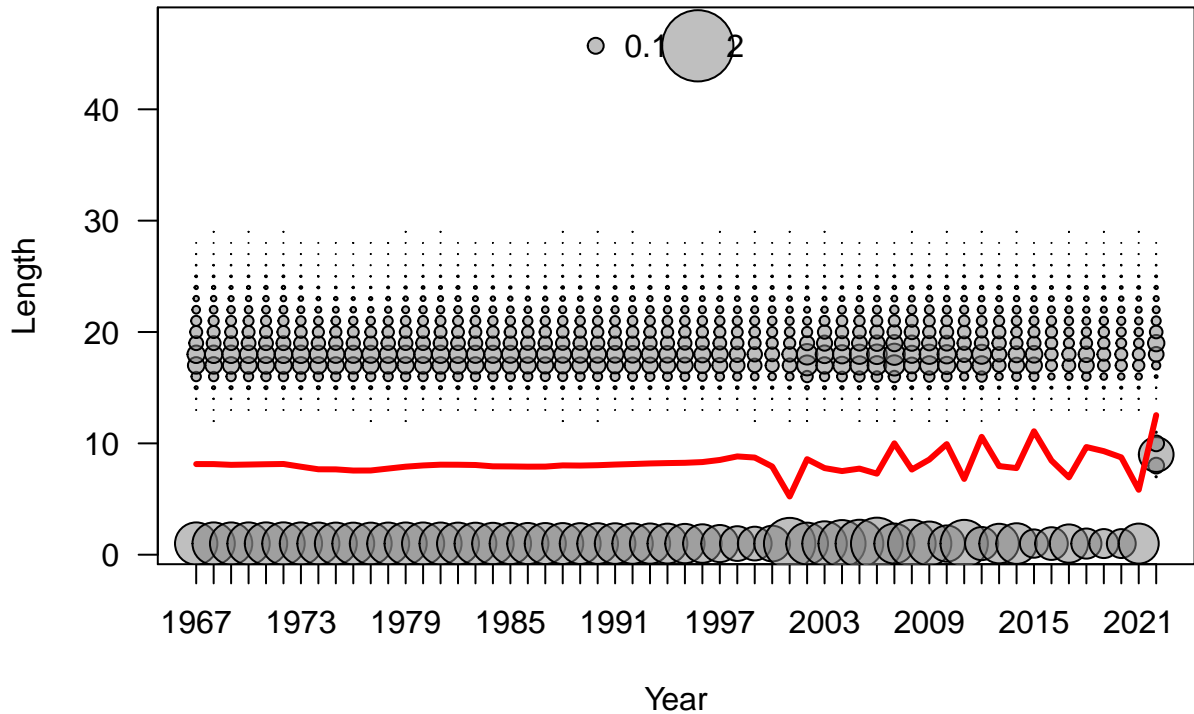
Age

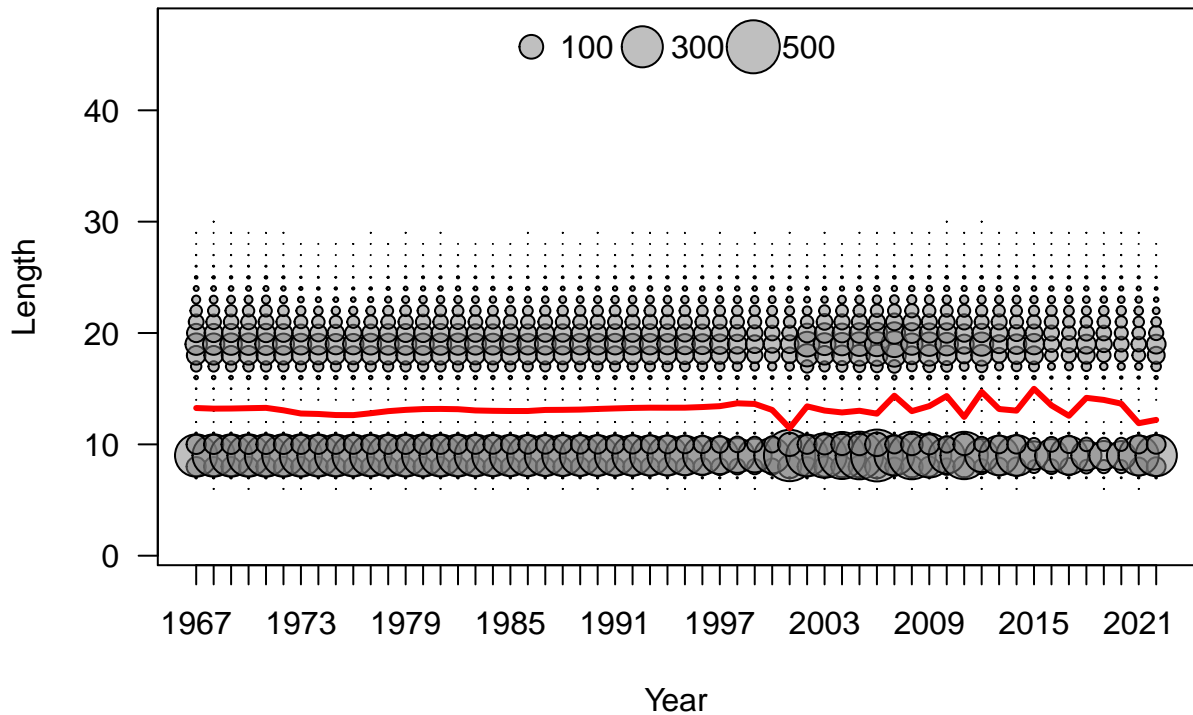


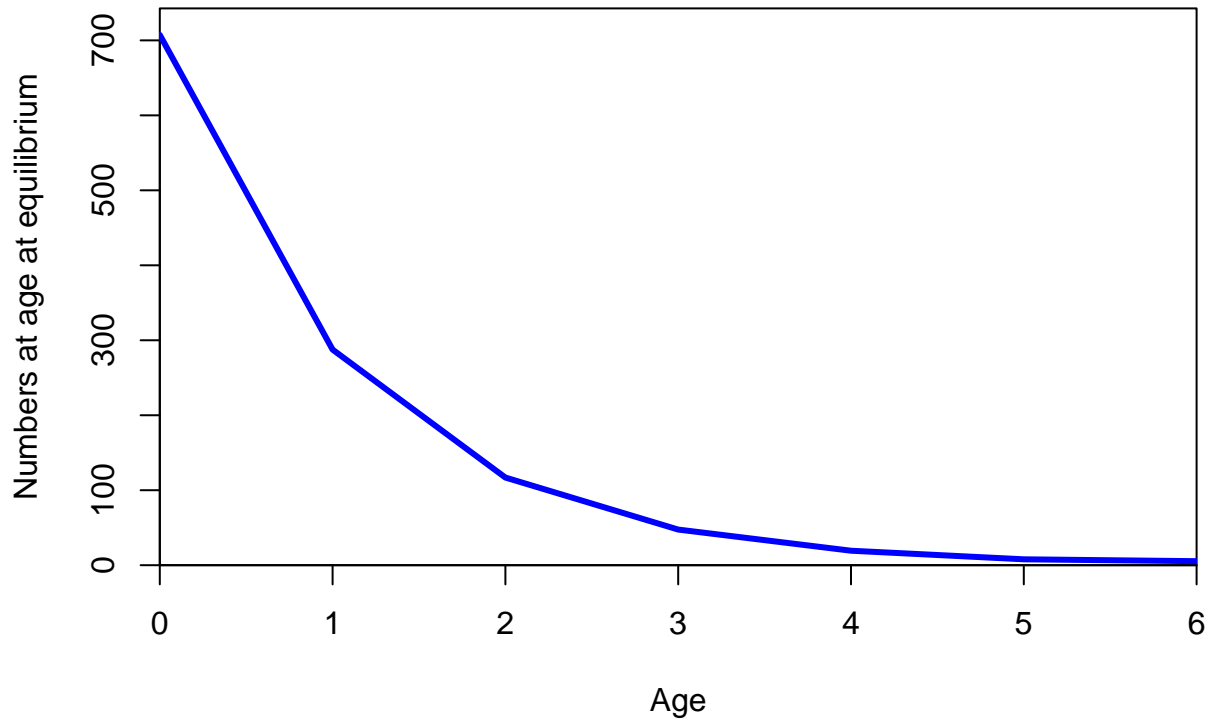


Age



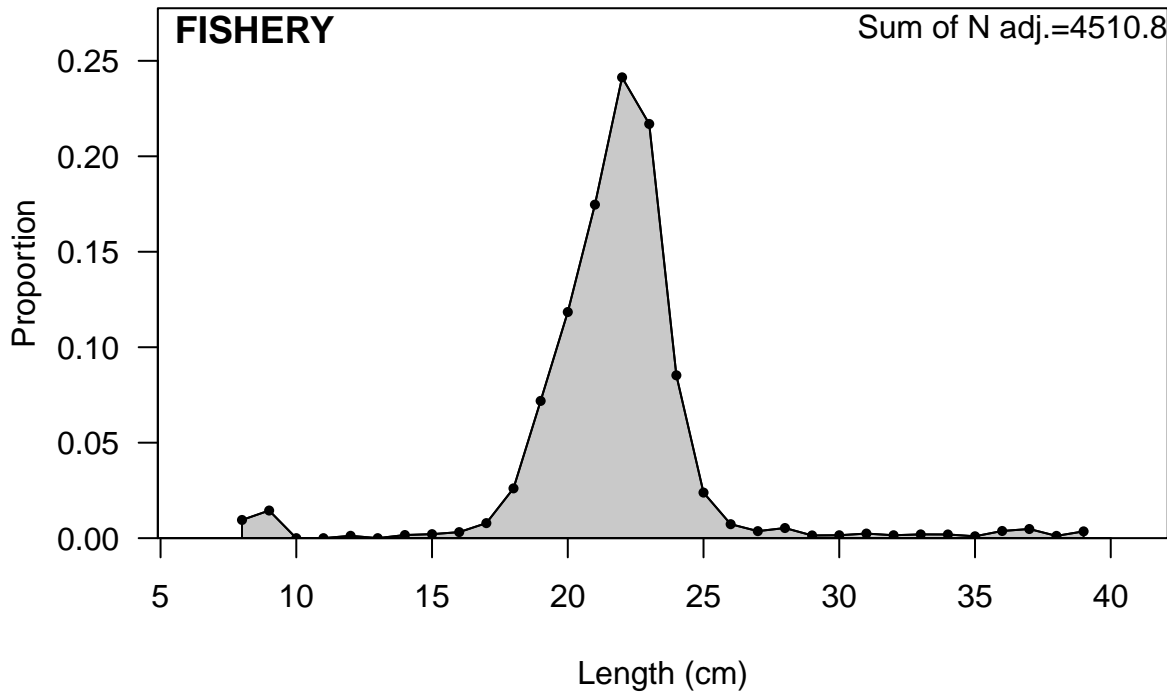


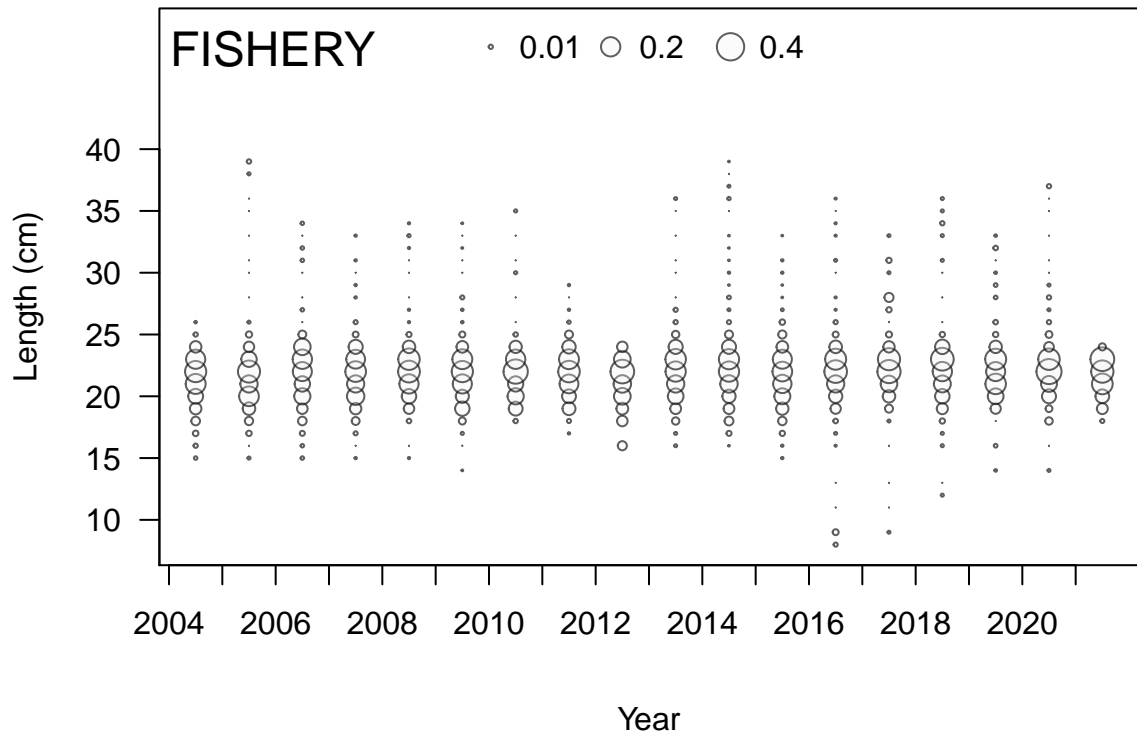


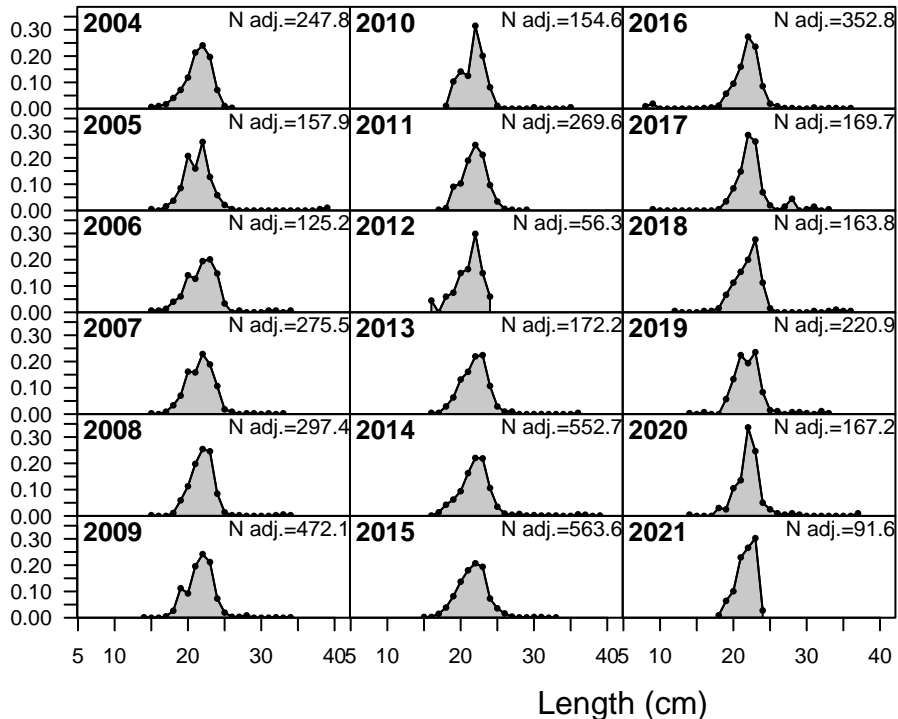


# FISHERY

Sum of N adj.=4510.8



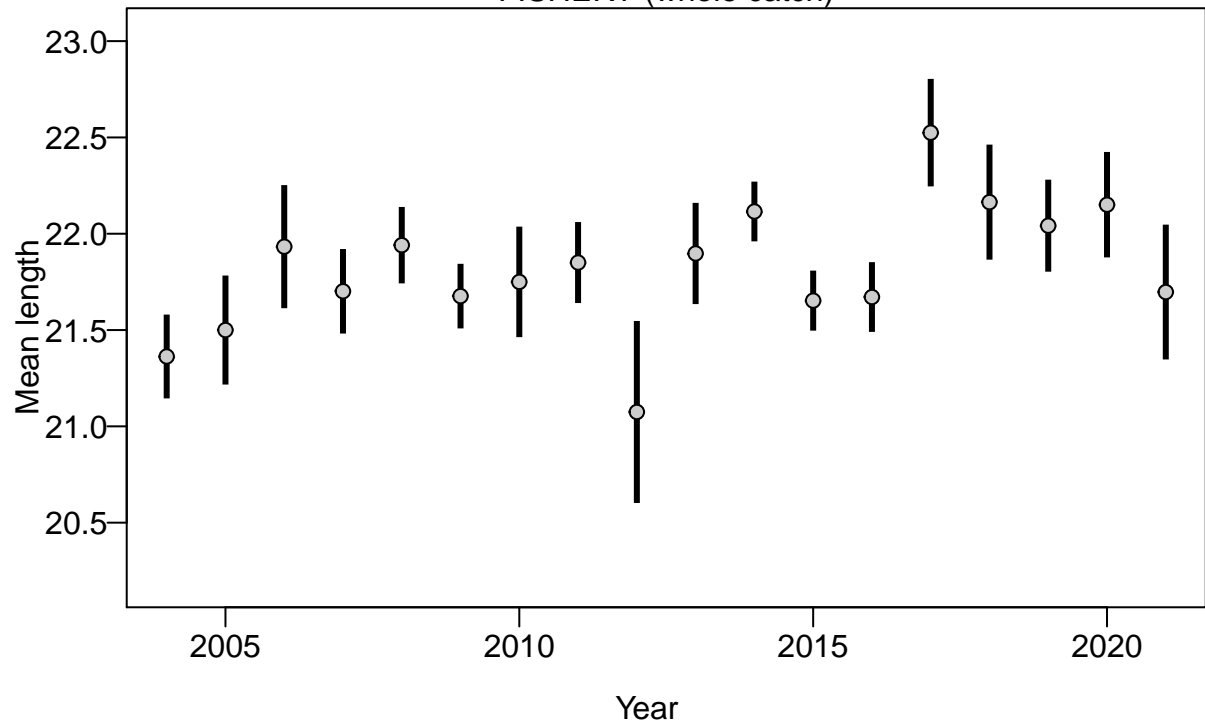






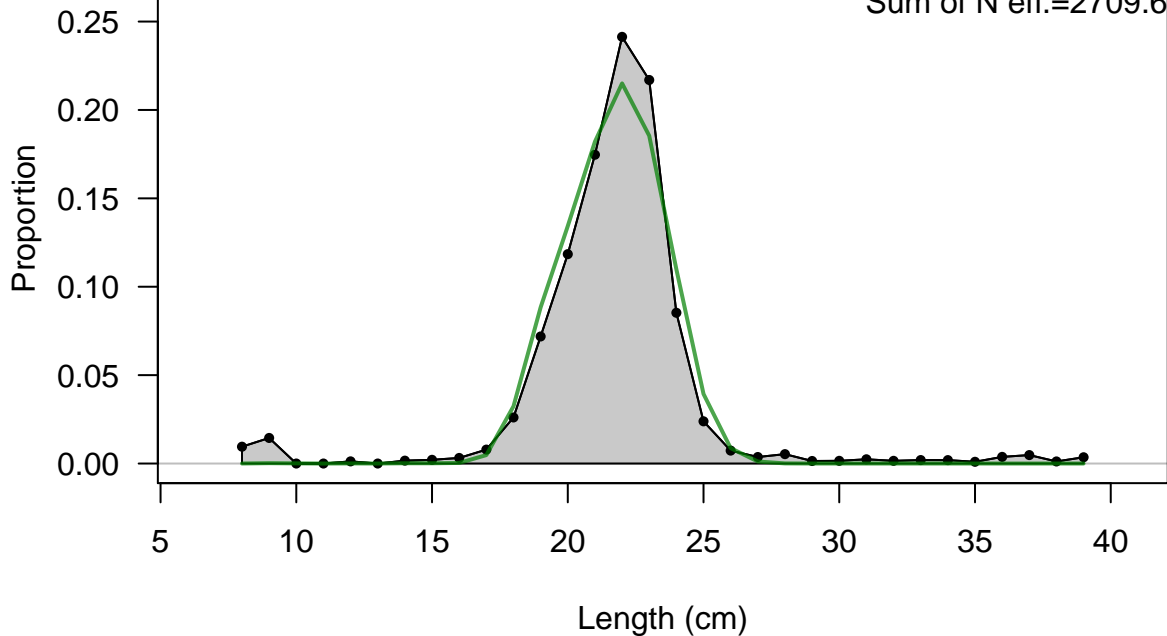


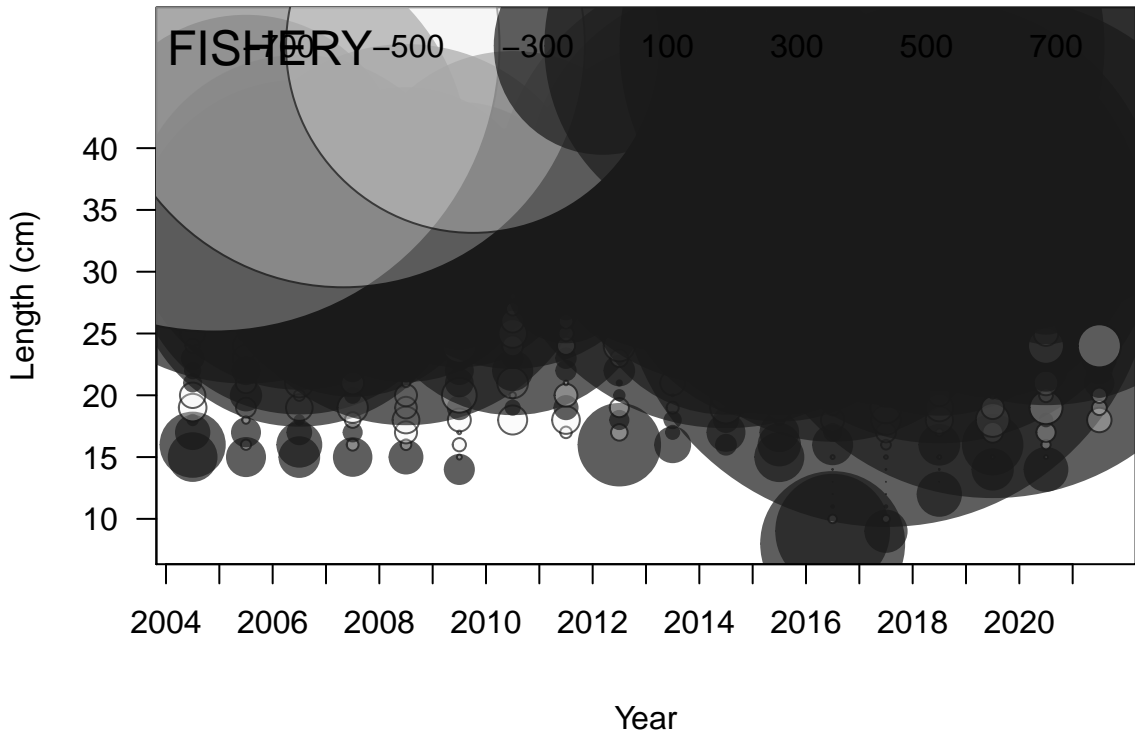
FISHERY (whole catch)

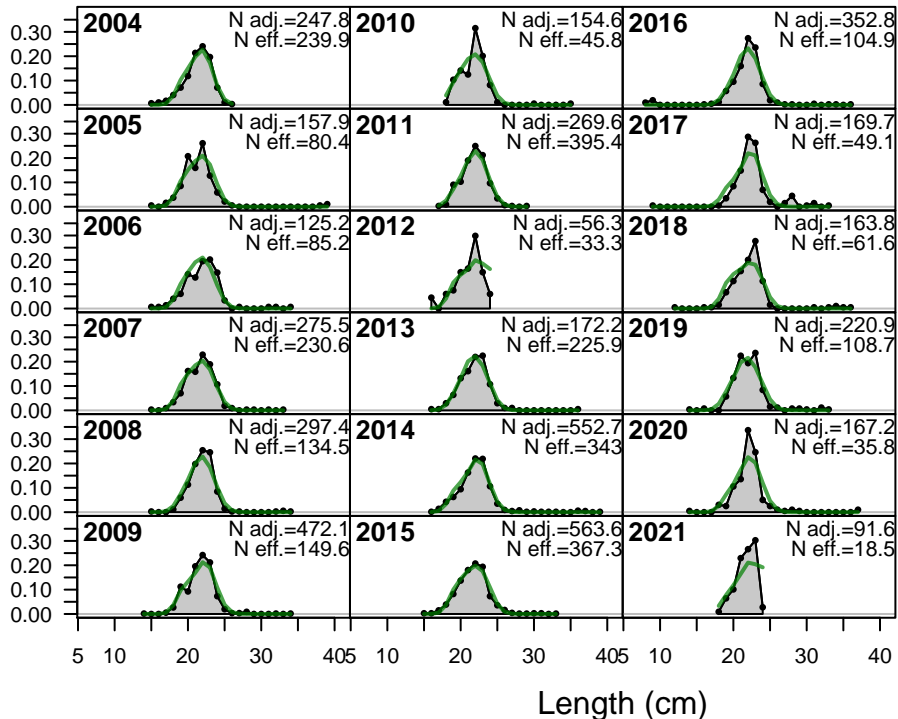


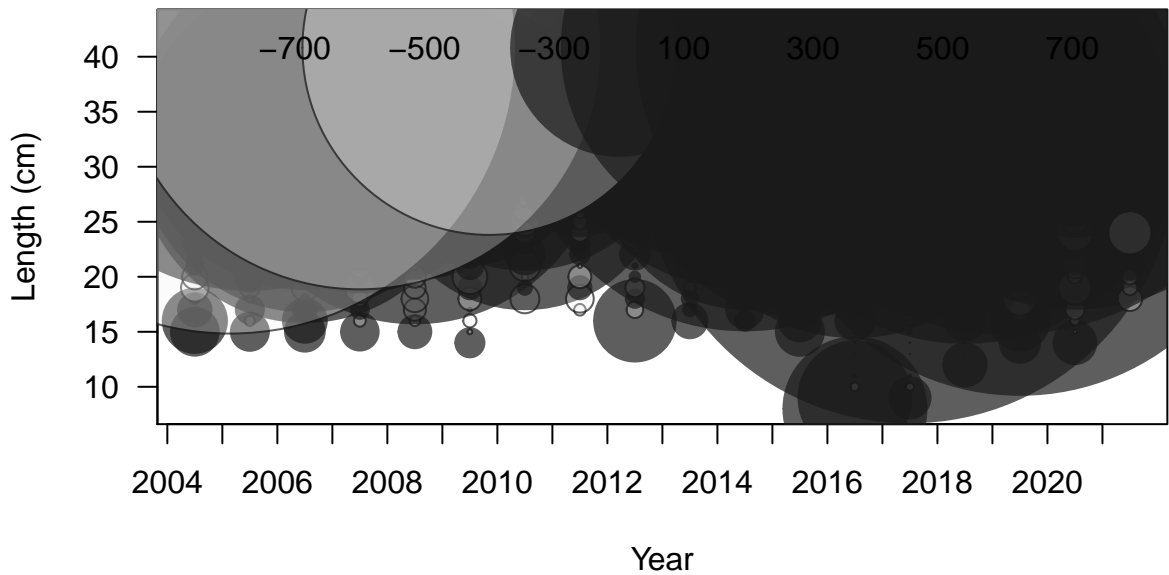
# FISHERY

Sum of N adj.=4510.8  
Sum of N eff.=2709.6

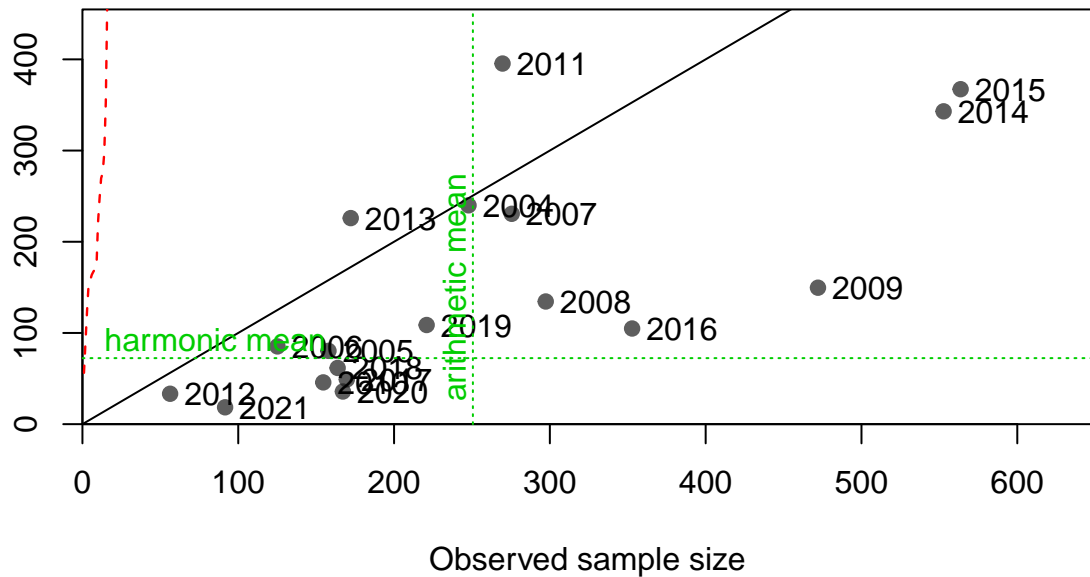




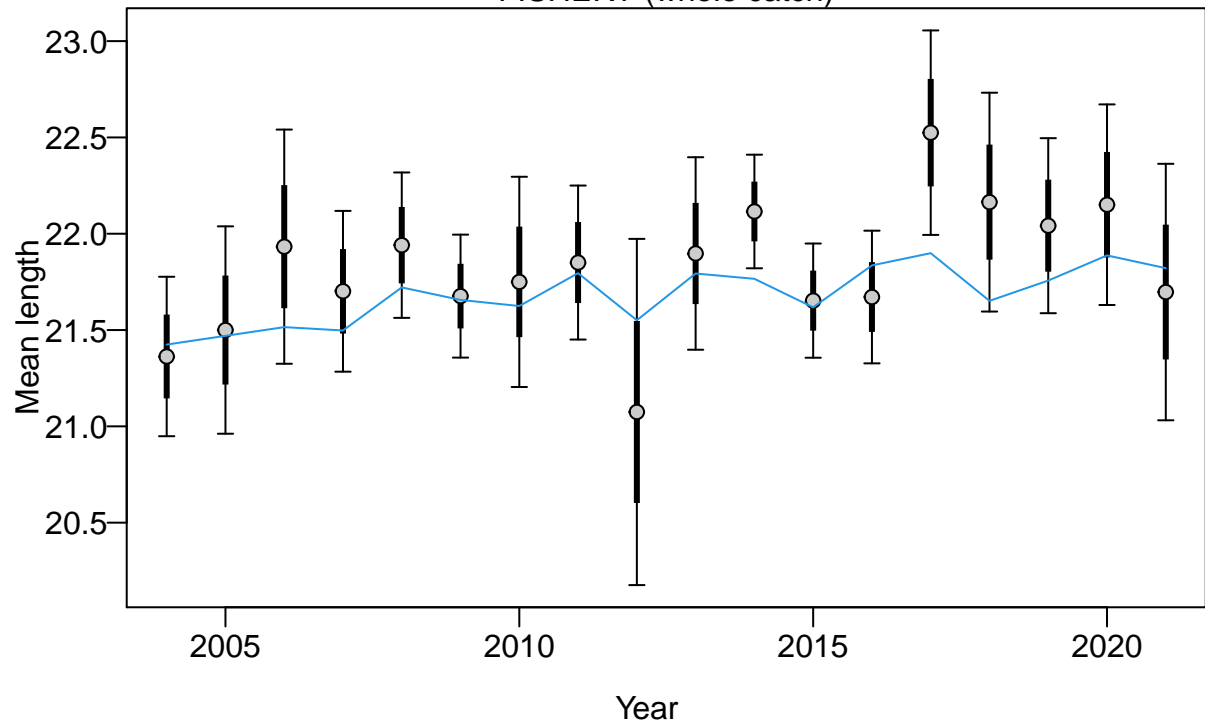


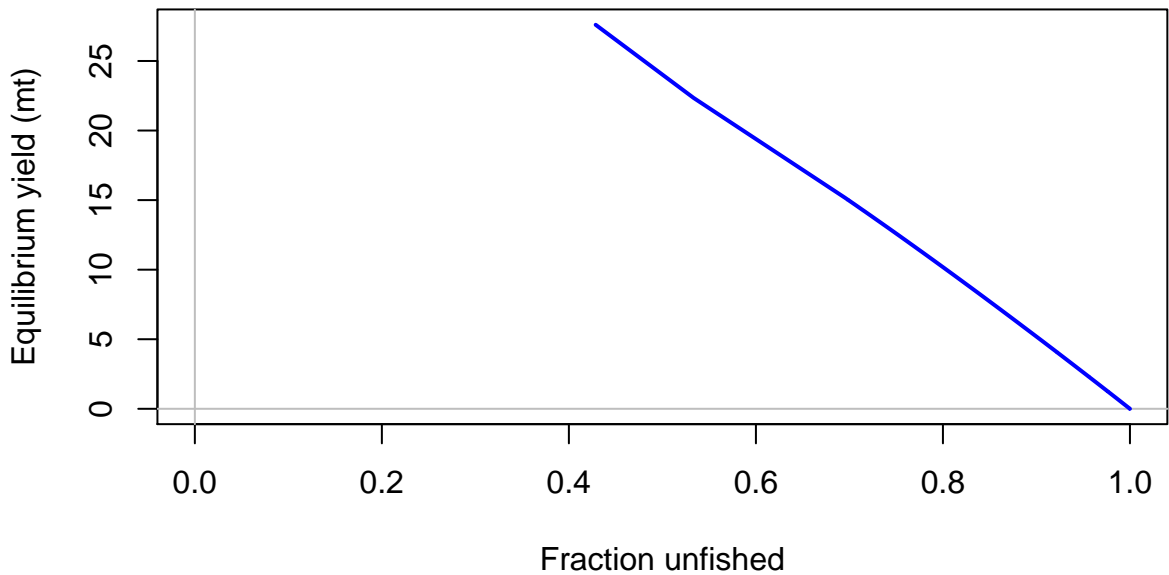


Effective sample size

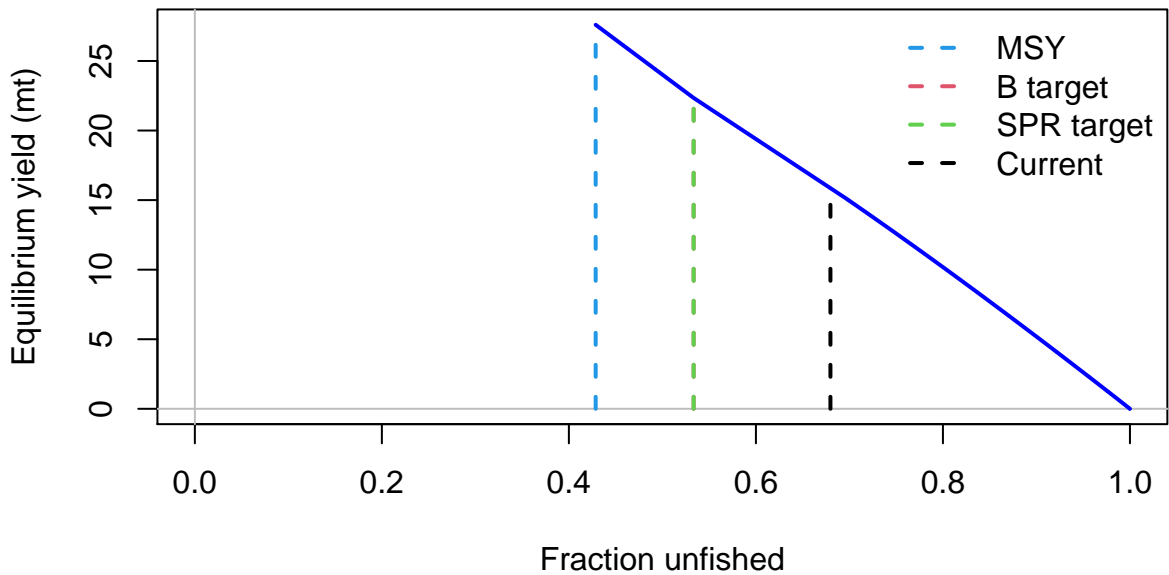


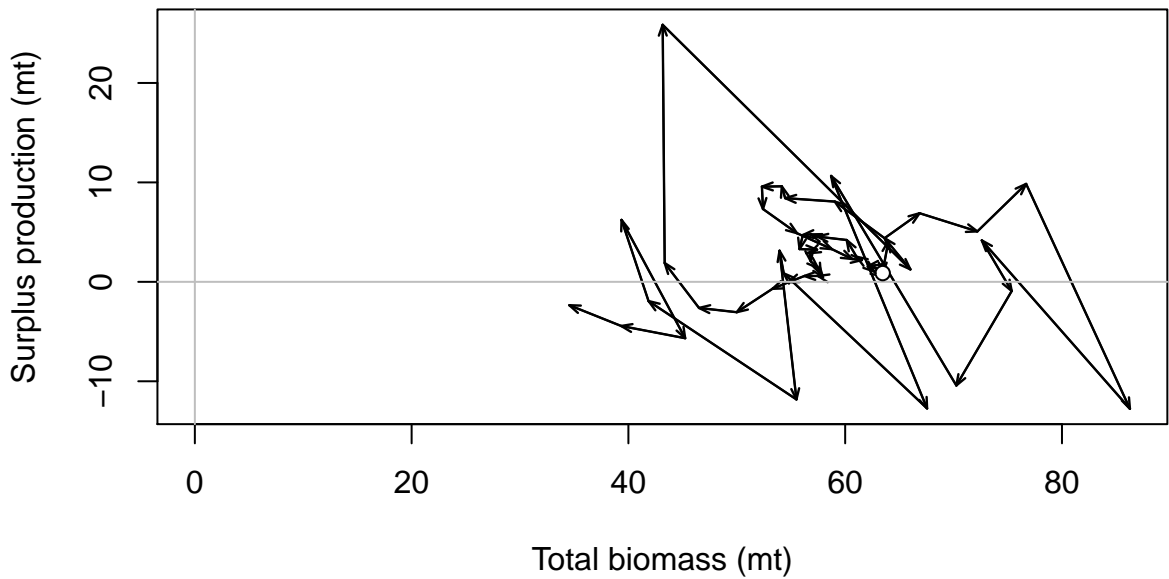
FISHERY (whole catch)

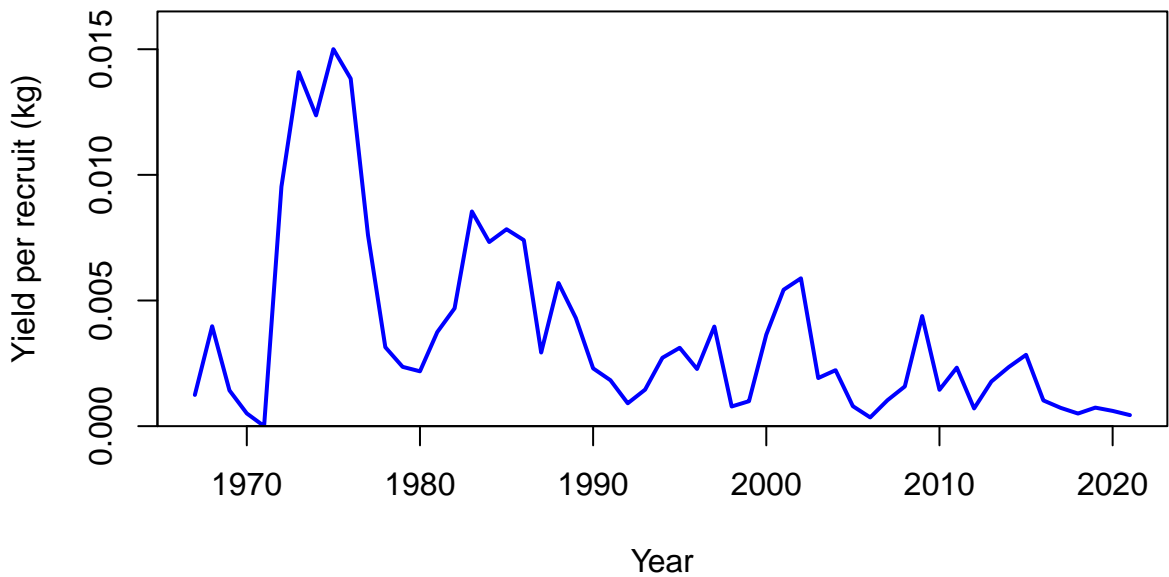




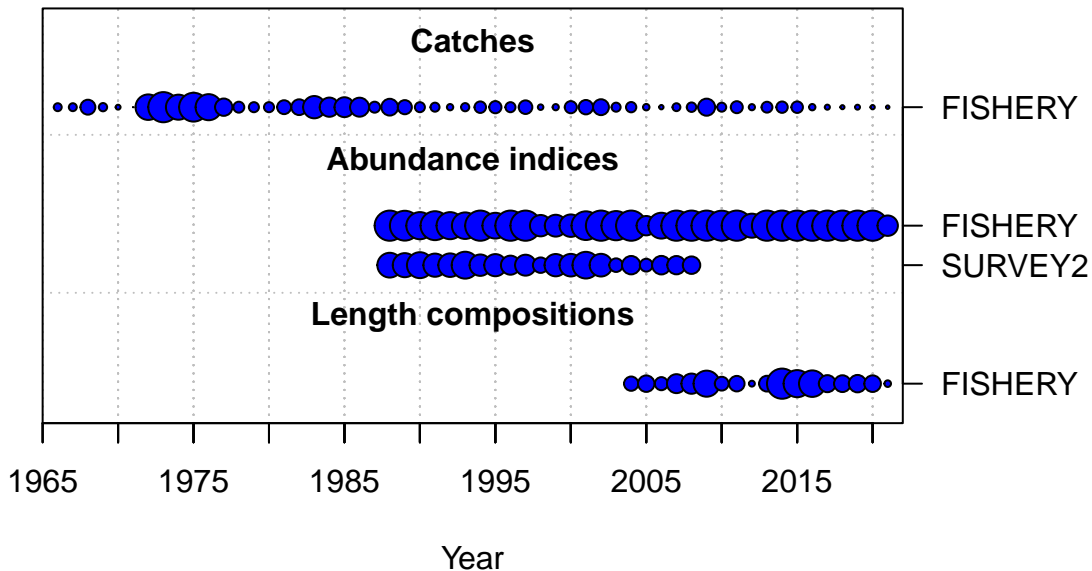






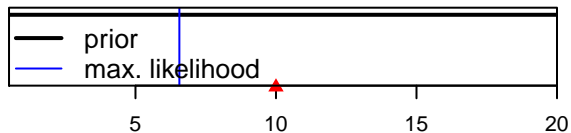




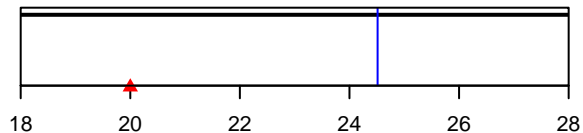


Density

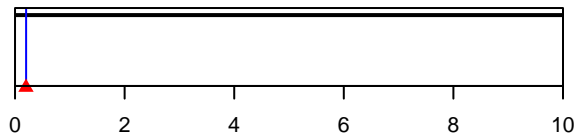
SR\_LN(R0)



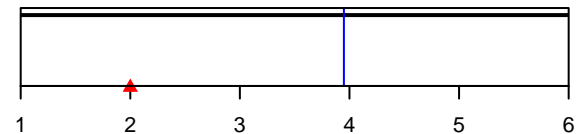
Size\_inflection\_FISHERY(1)



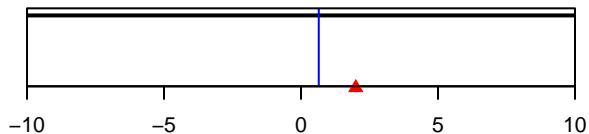
InitF\_seas\_1\_flt\_1FISHERY



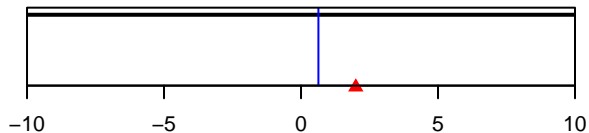
Size\_95%width\_FISHERY(1)



LnQ\_base\_FISHERY(1)



LnQ\_base\_SURVEY2(2)



Parameter value