

Plots created using the 'r4ss' package in R

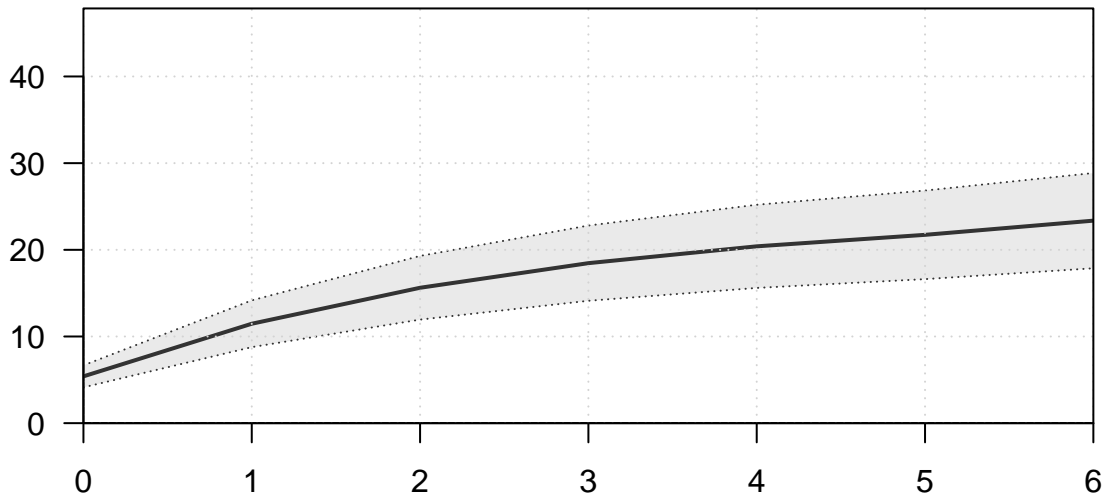
Stock Synthesis version: 3.30.19.0

StartTime: Fri Jul 22 14:24:53 2022

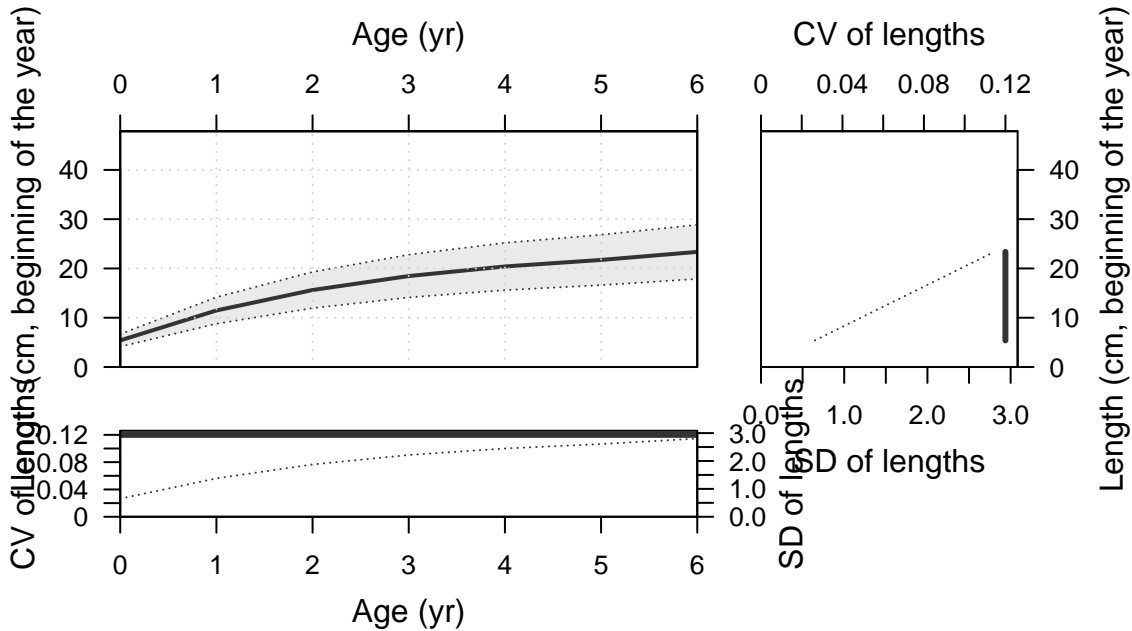
Data_File: data.ss

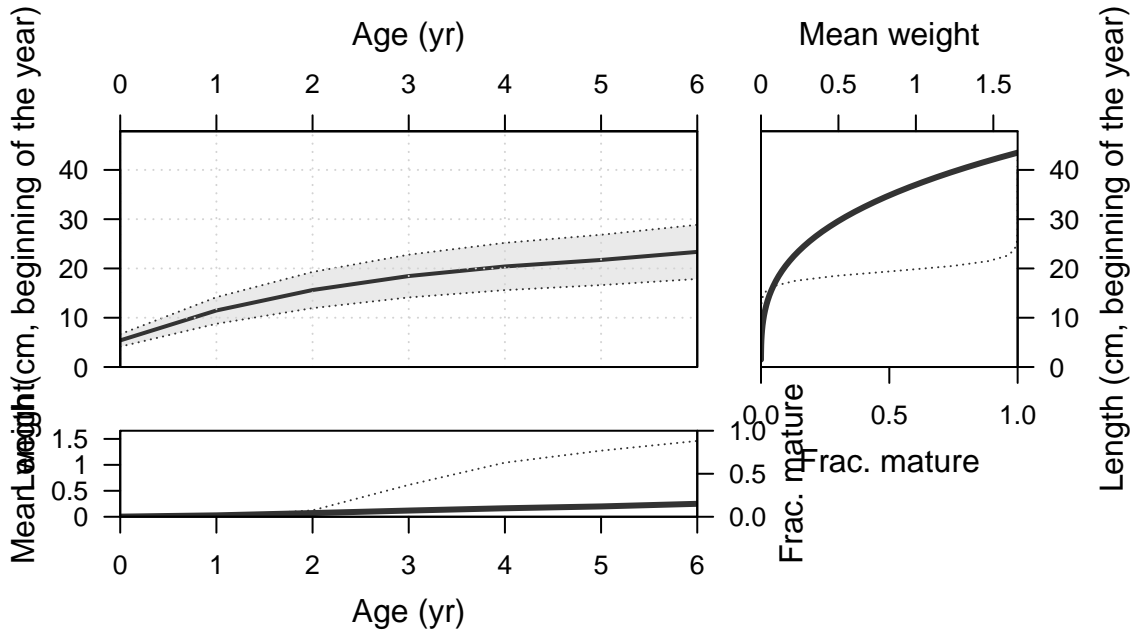
Control_File: control.ss

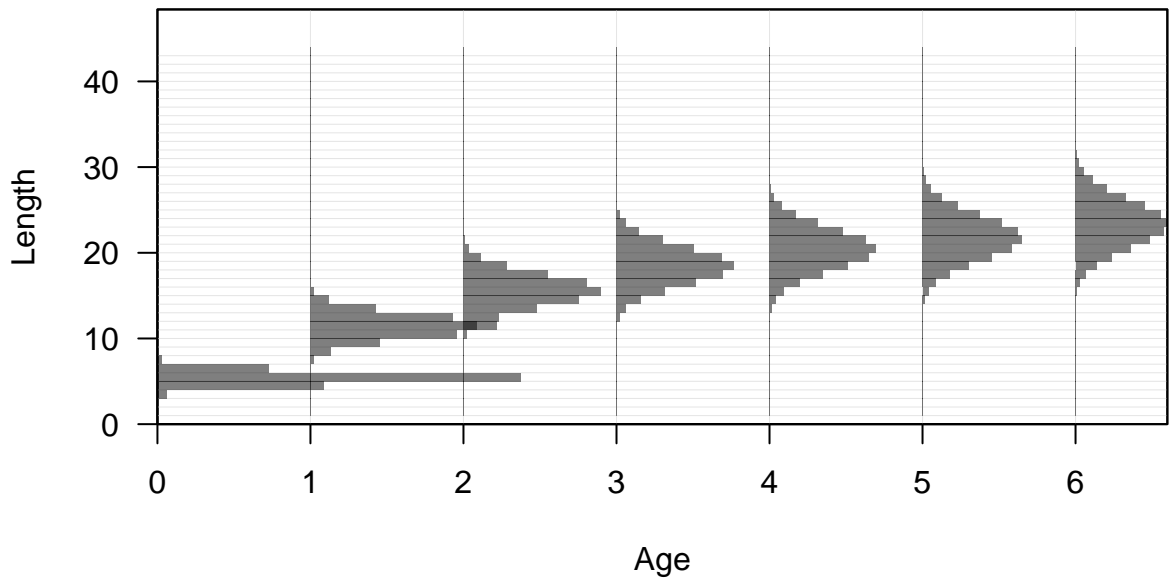
Length (cm, beginning of the year)

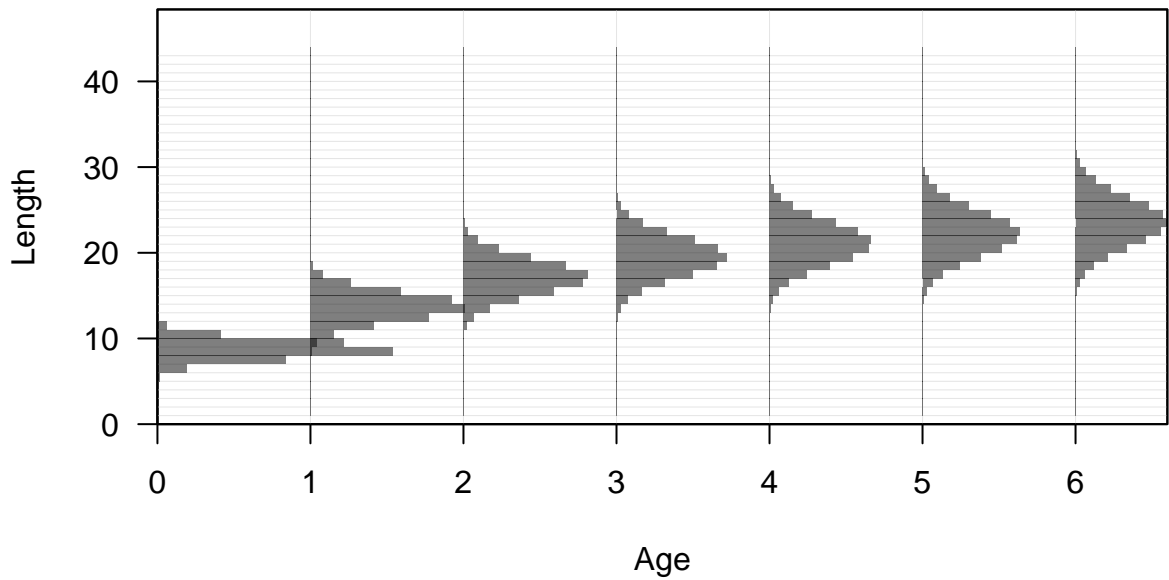


Age (yr)

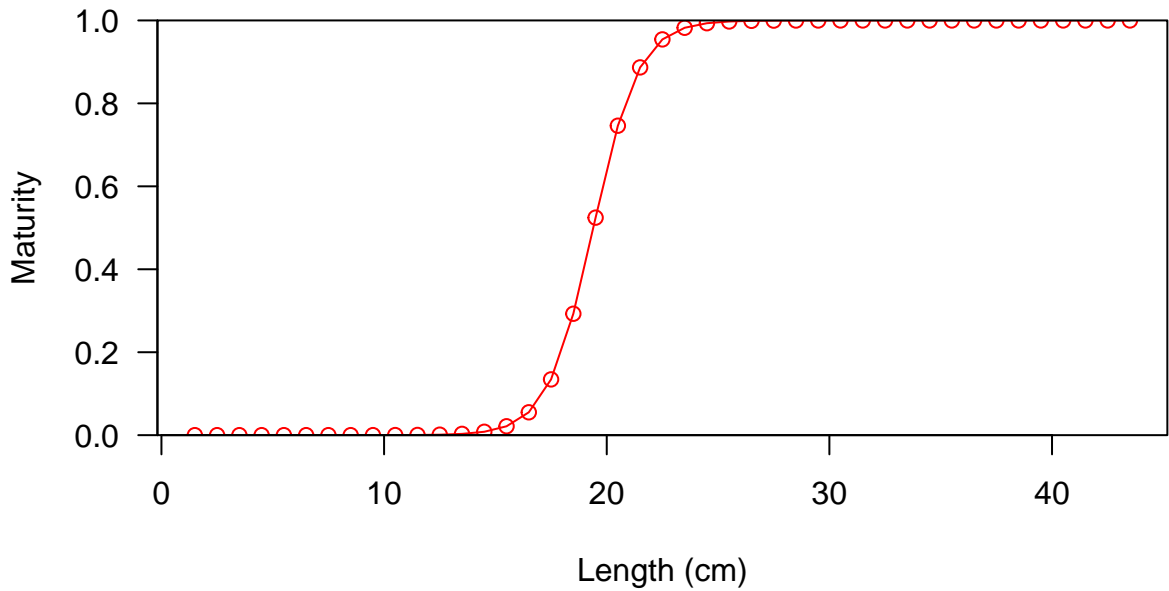








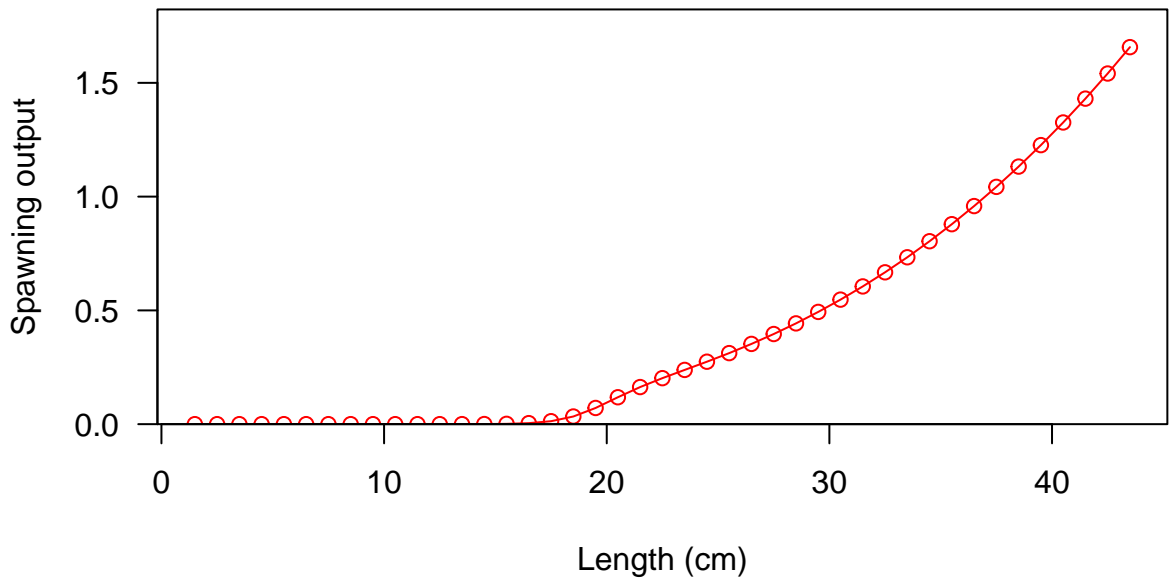


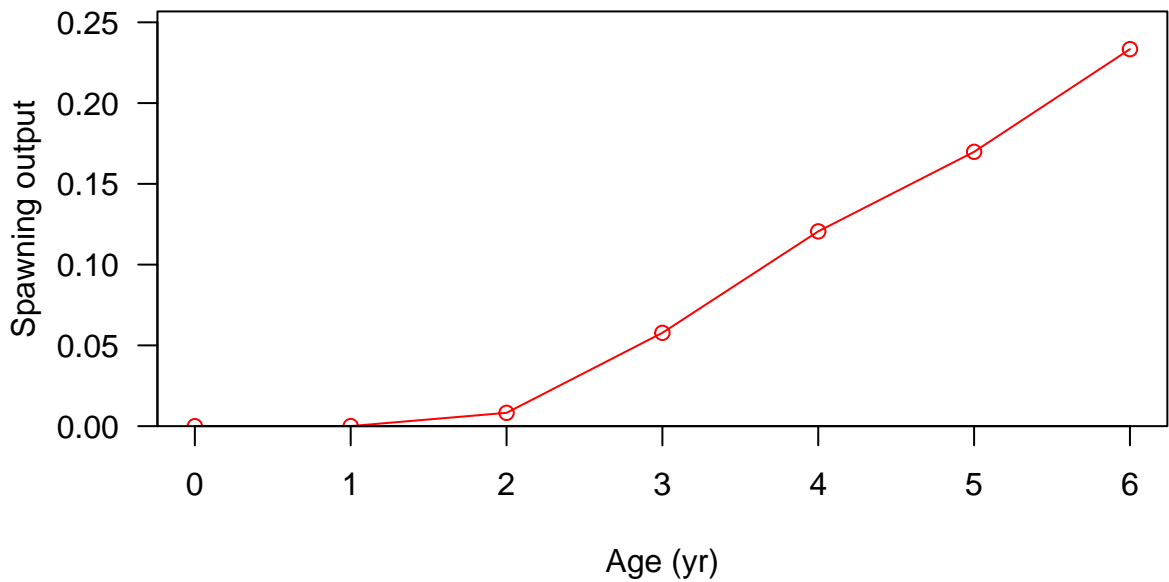




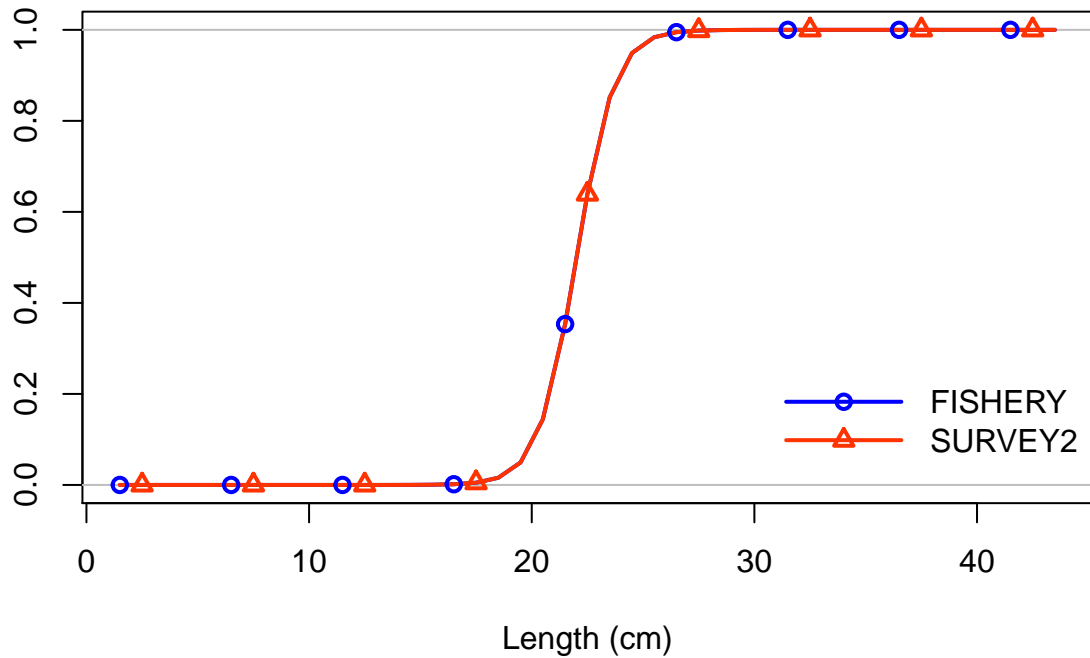




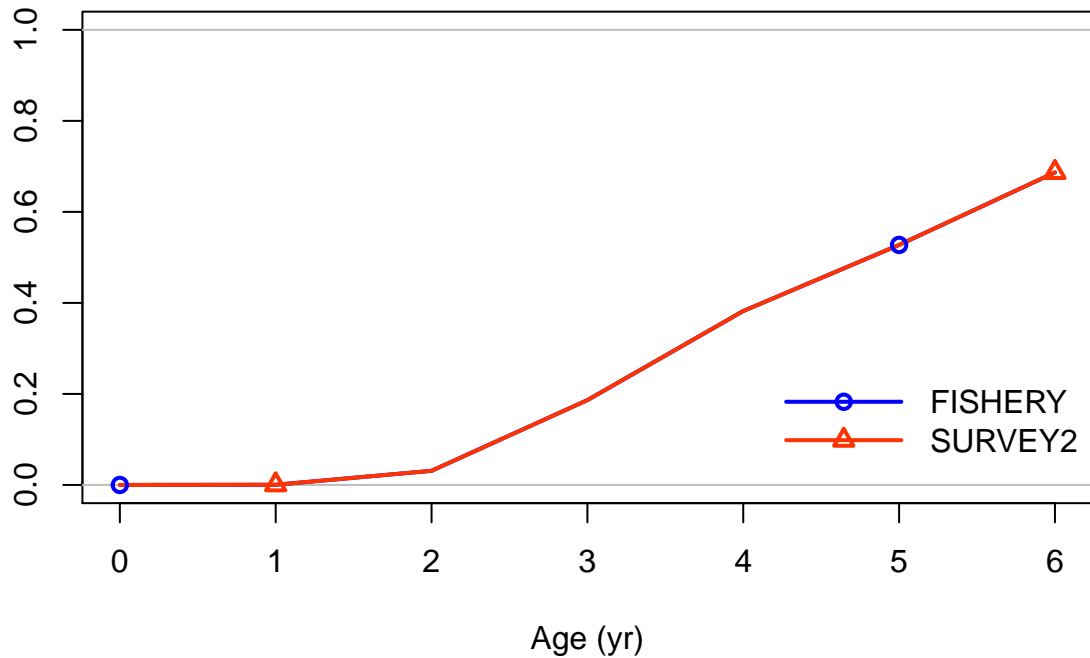




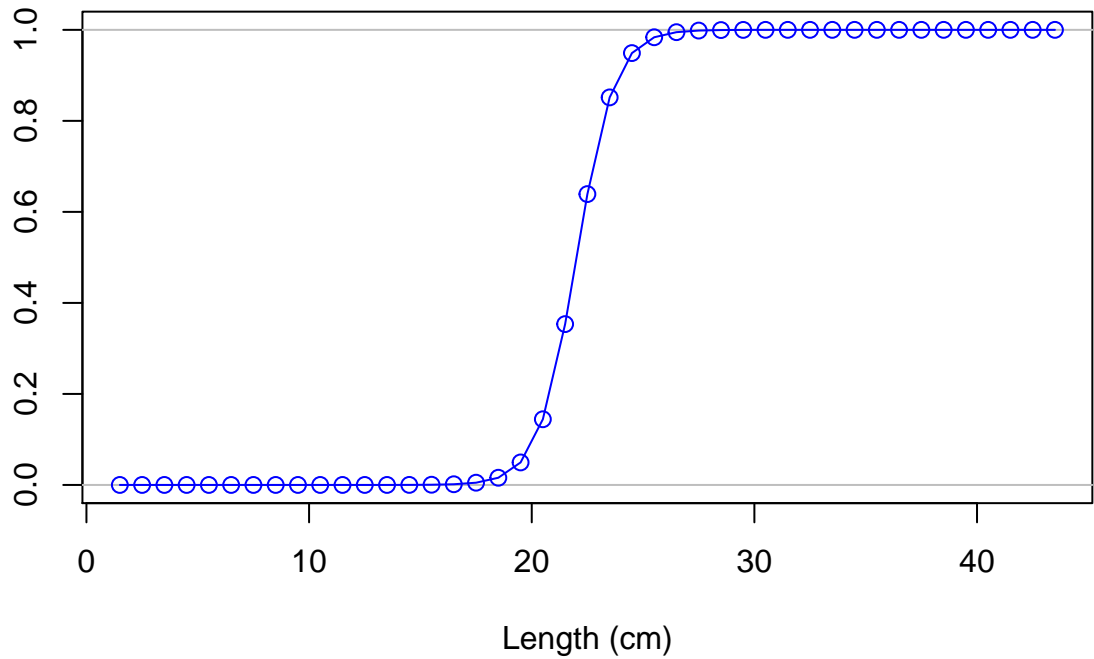
Selectivity



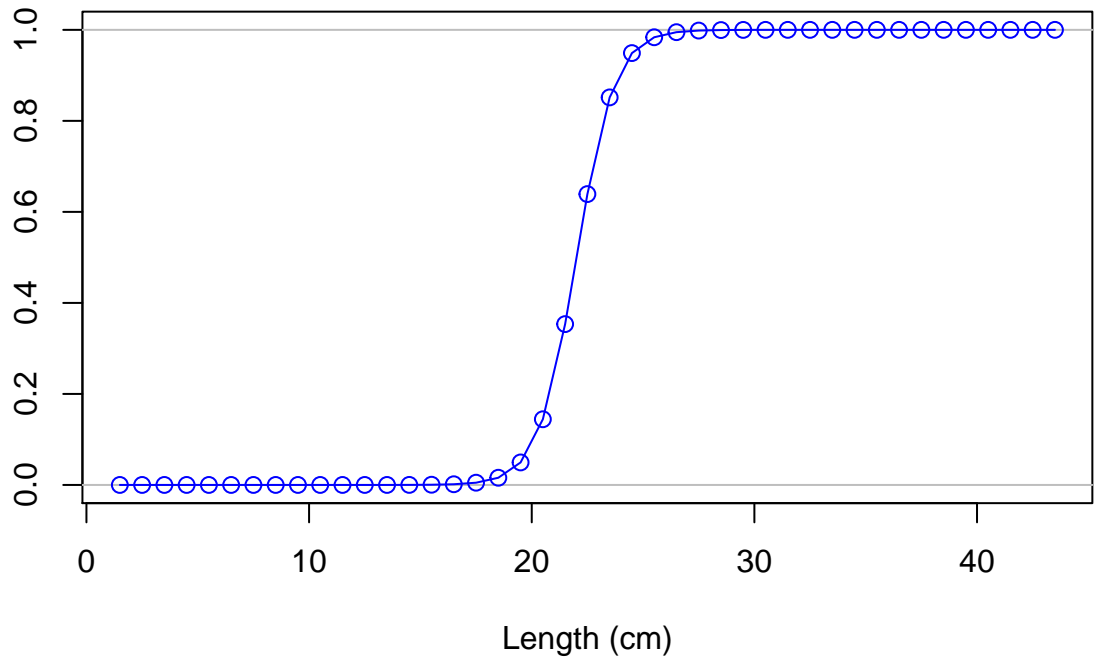
Selectivity

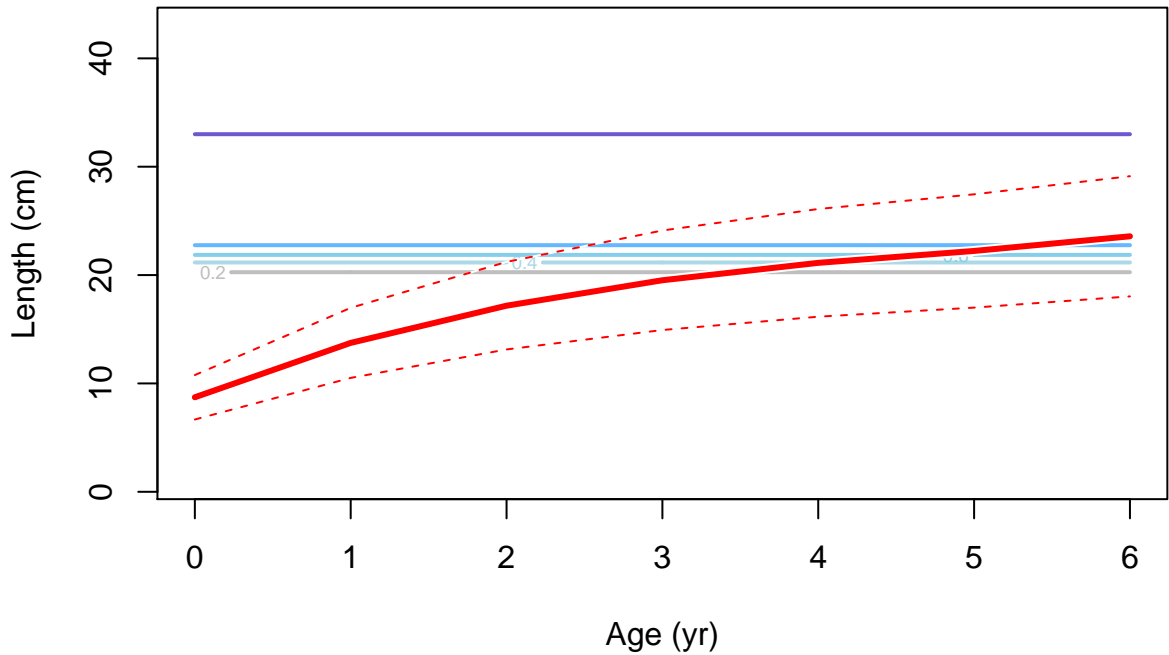


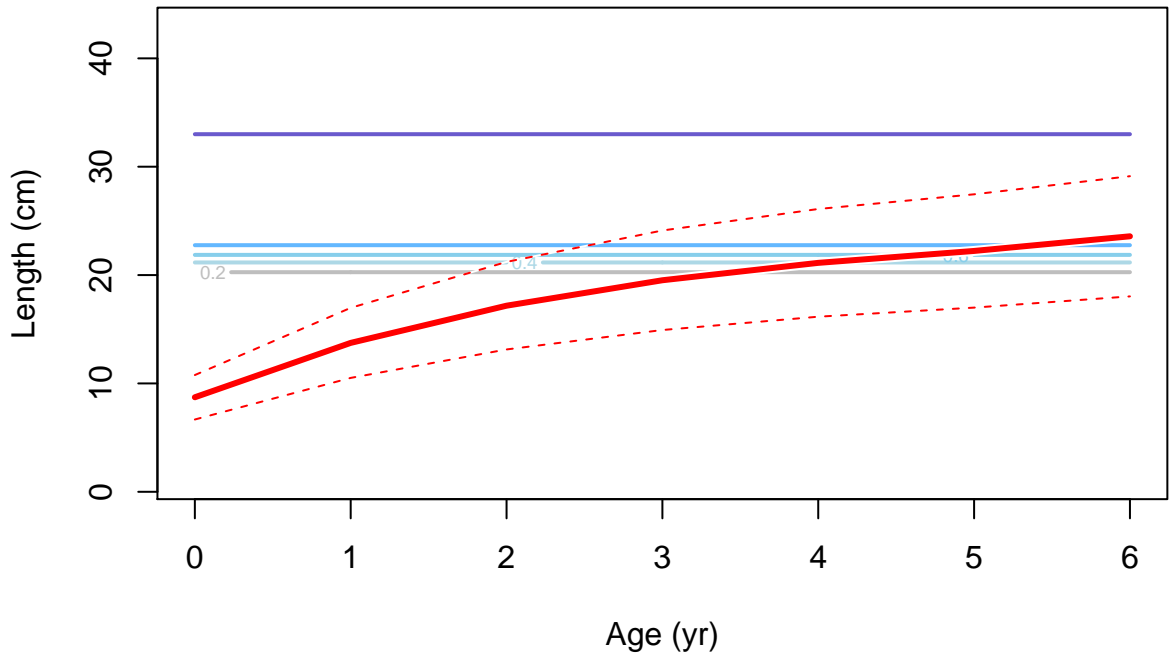
Selectivity



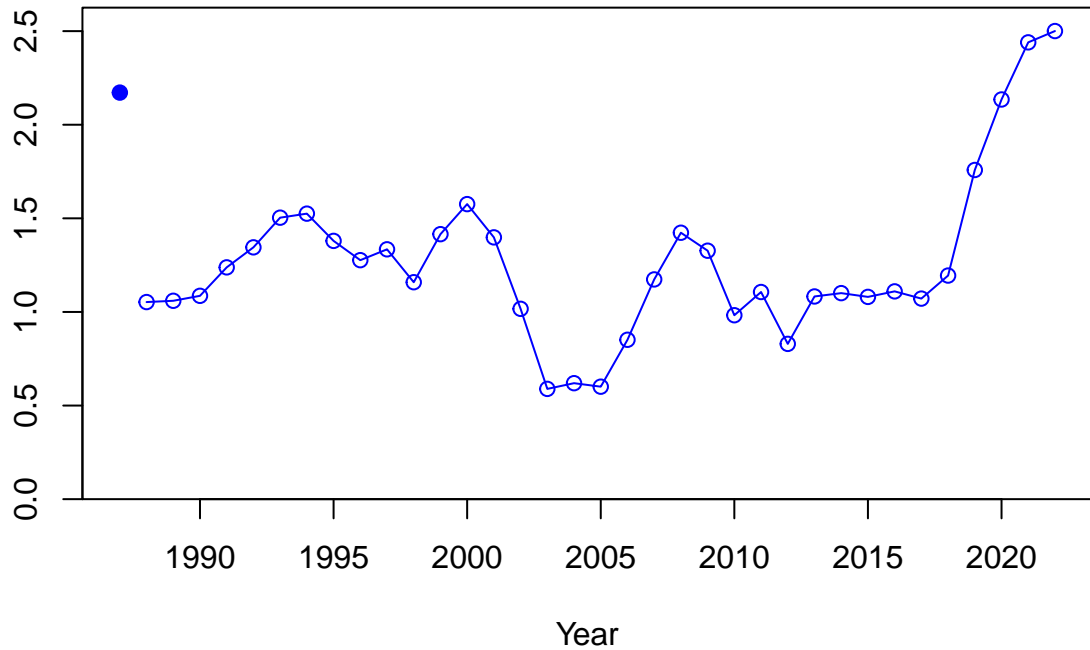
Selectivity



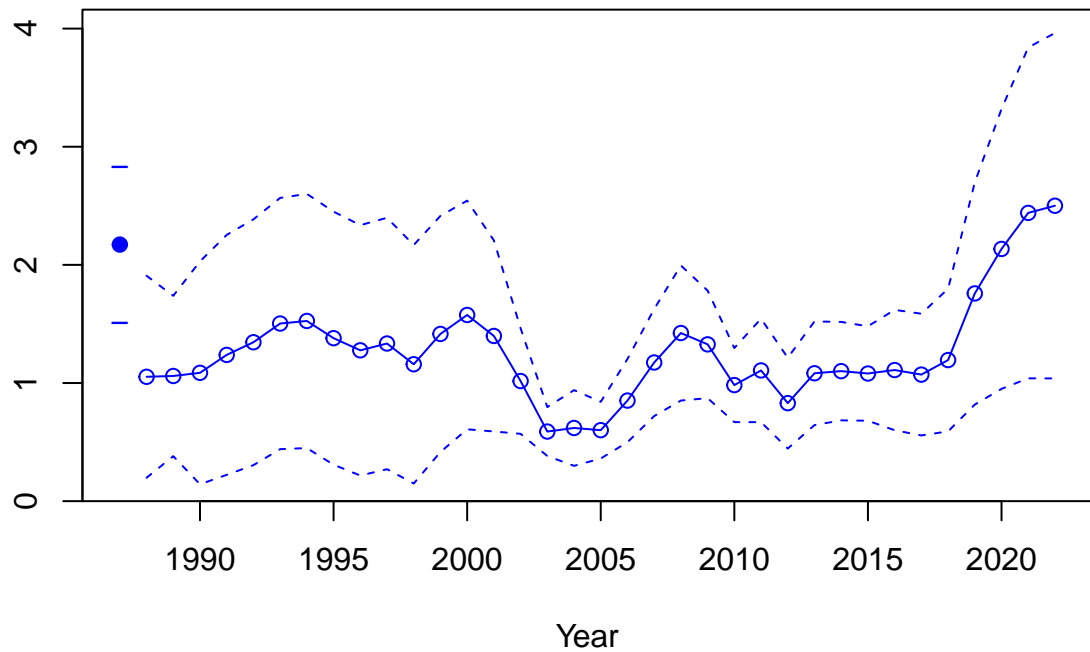




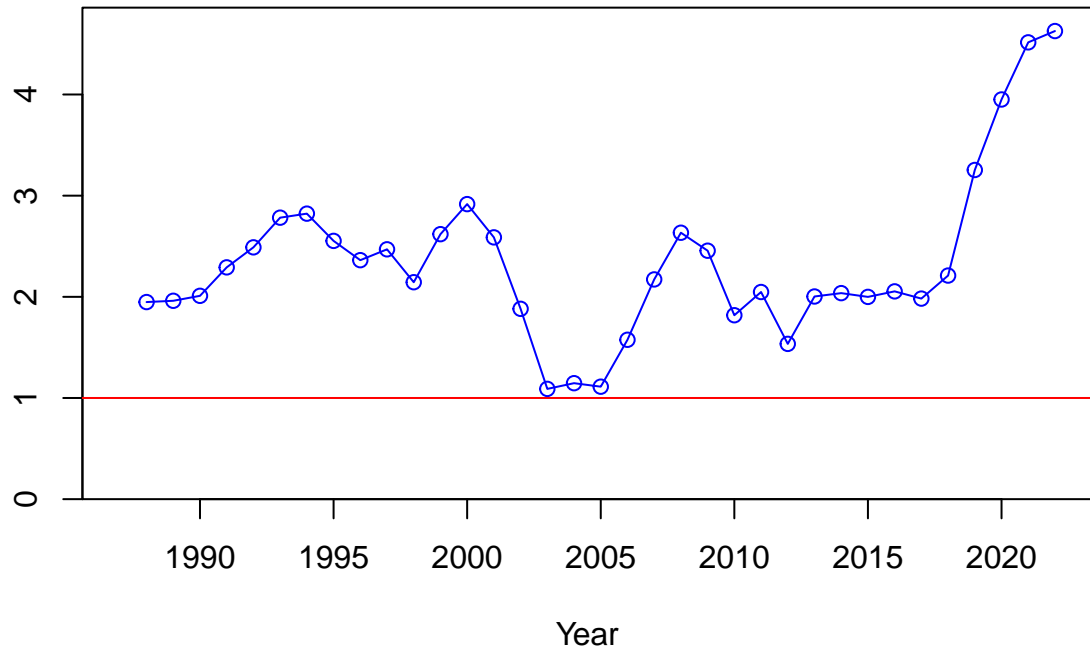
Spawning biomass (mt)



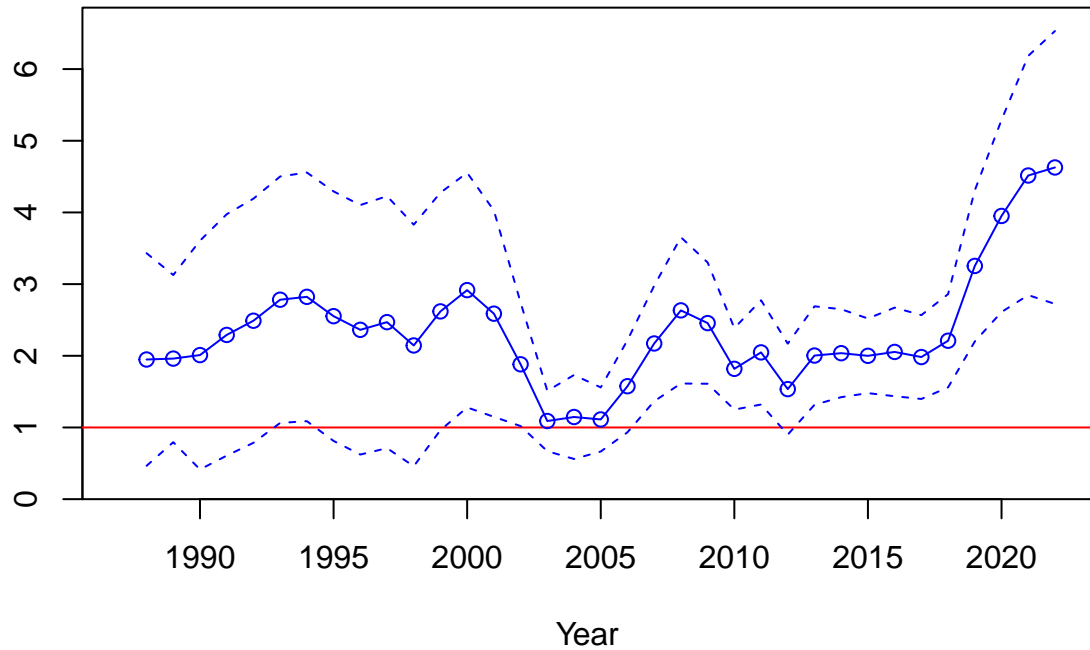
Spawning biomass (mt)

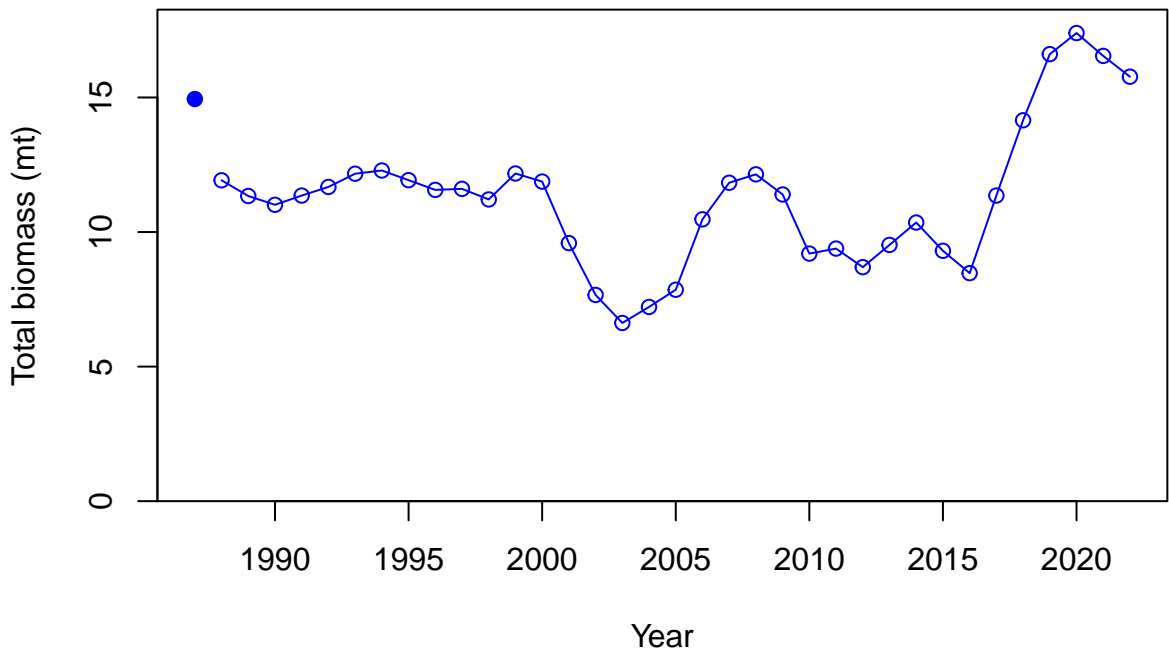


Relative spawning biomass: B/B_{MSY}

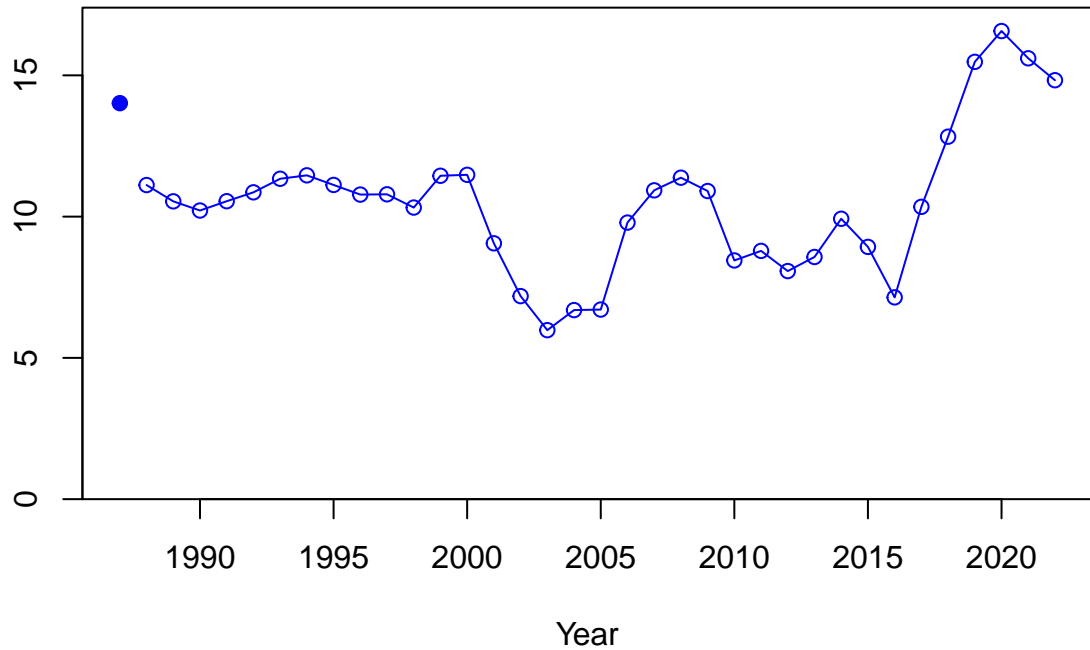


Relative spawning biomass: B/B_{MSY}

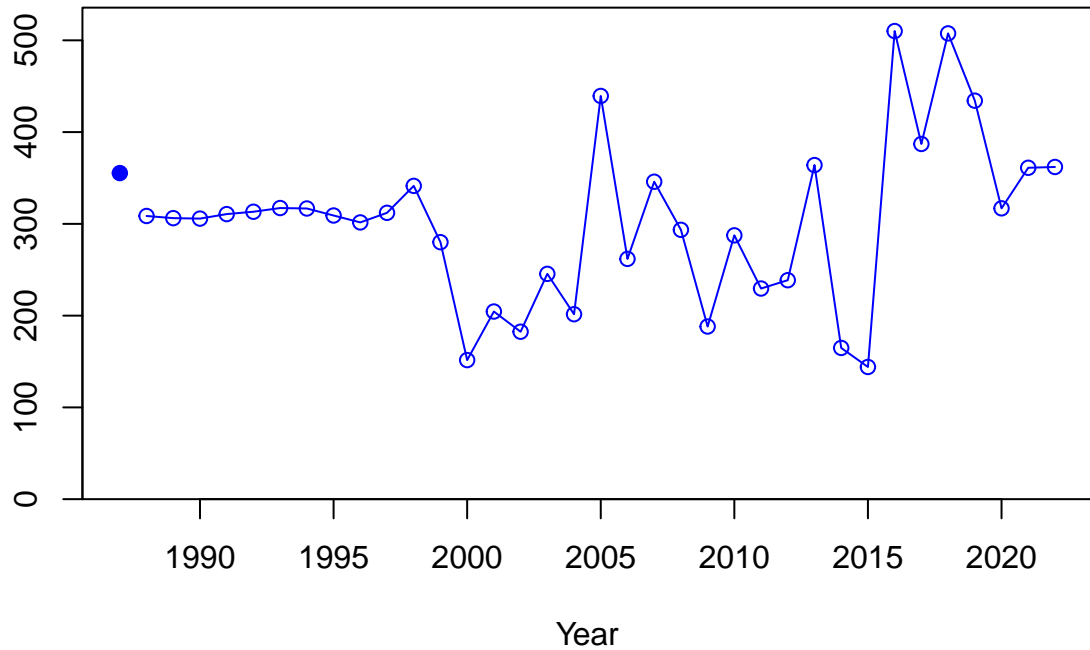




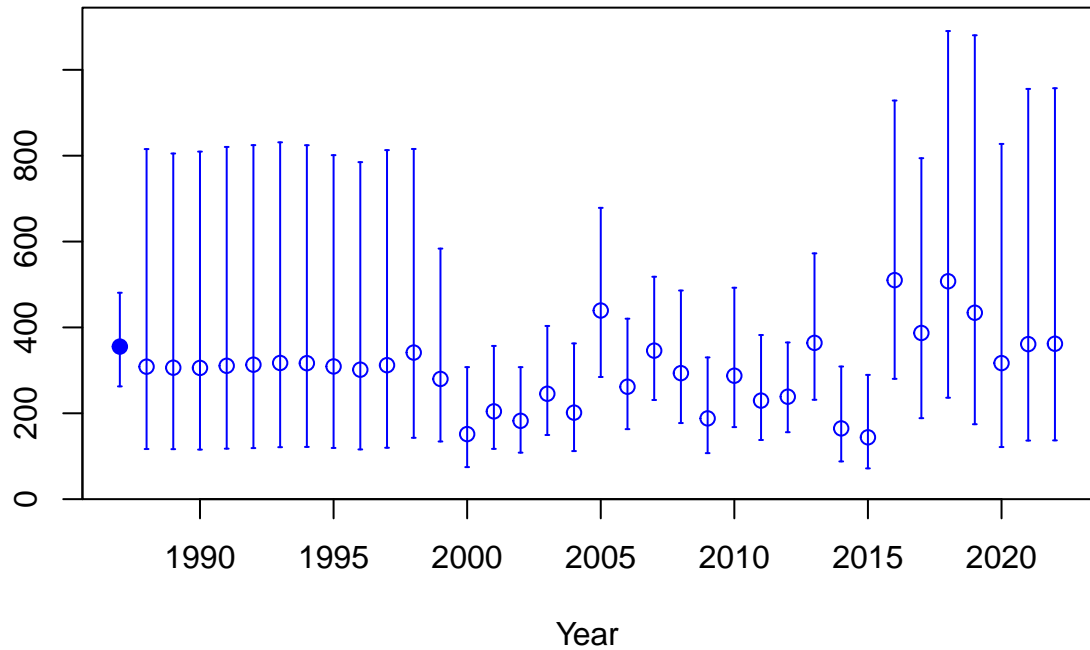
Summary biomass (mt)



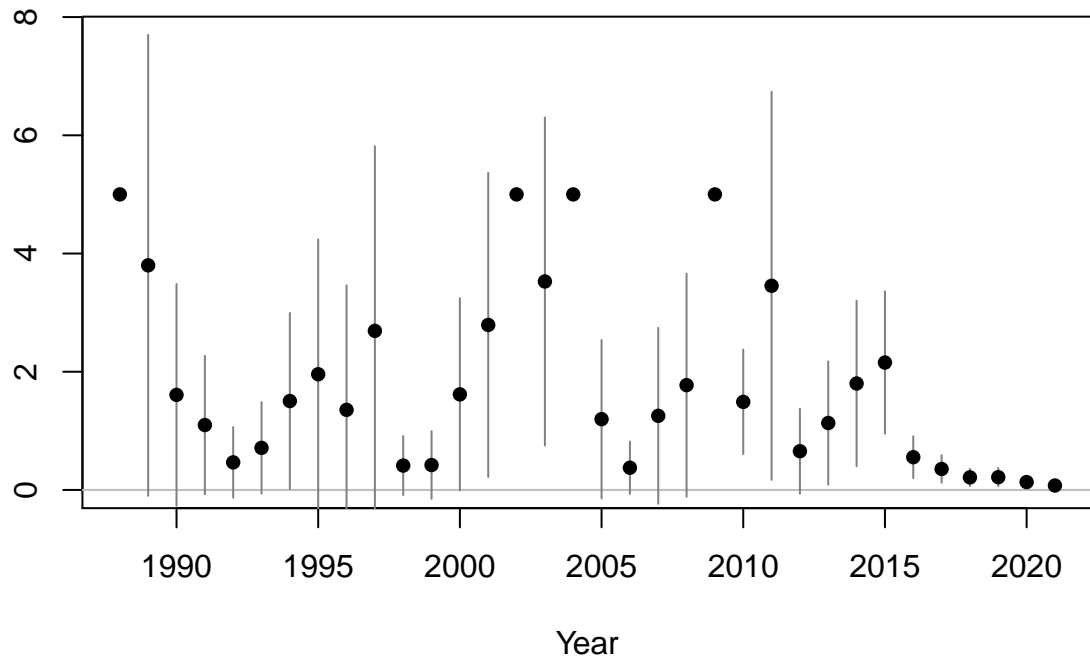
Age-0 recruits (1,000s)

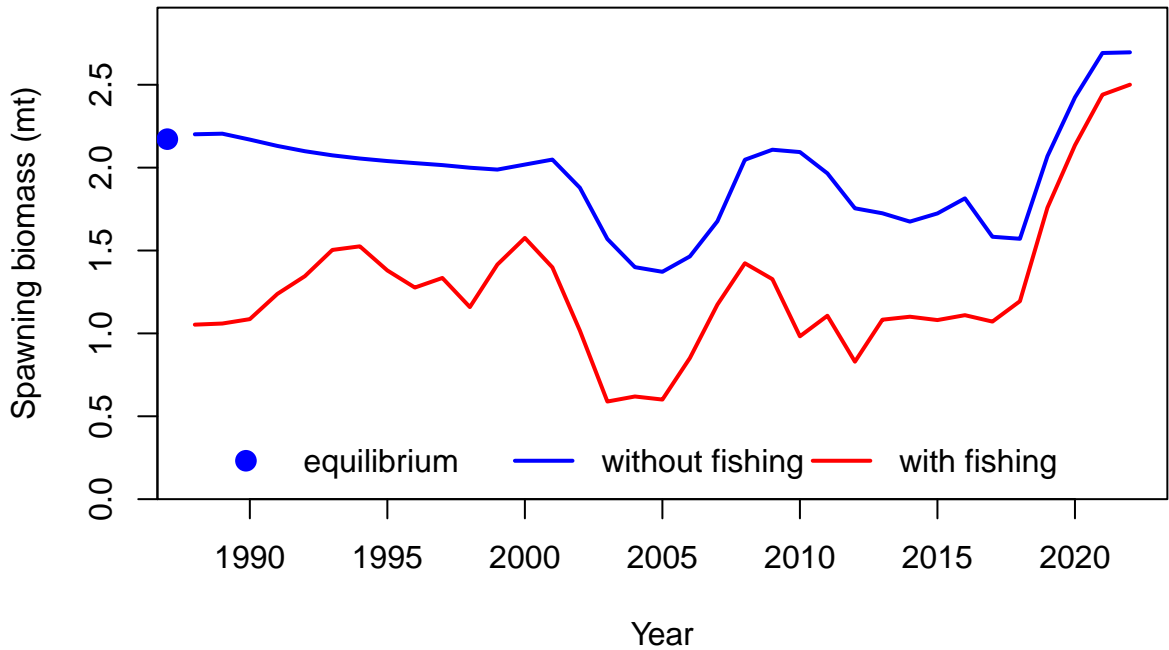


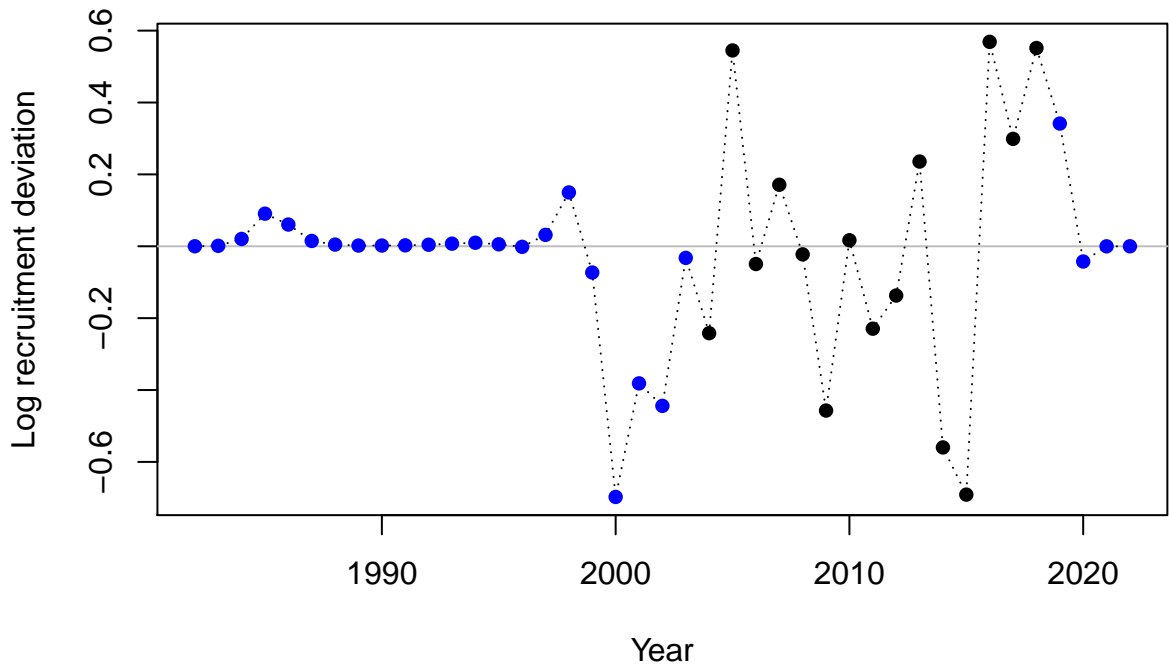
Age-0 recruits (1,000s)



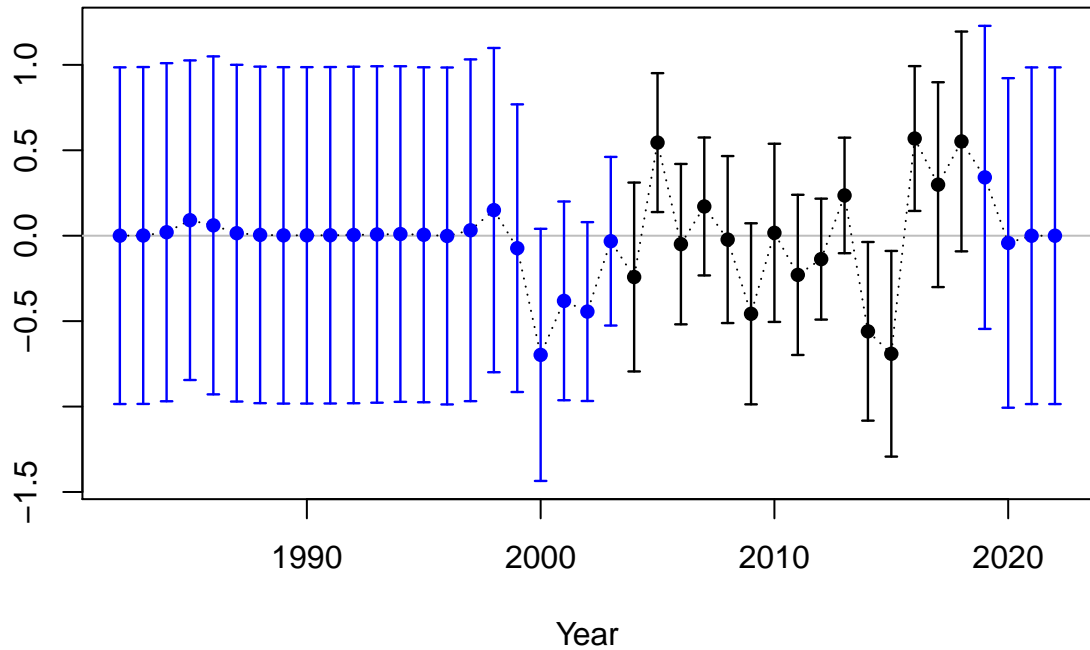
Summary Fishing Mortality





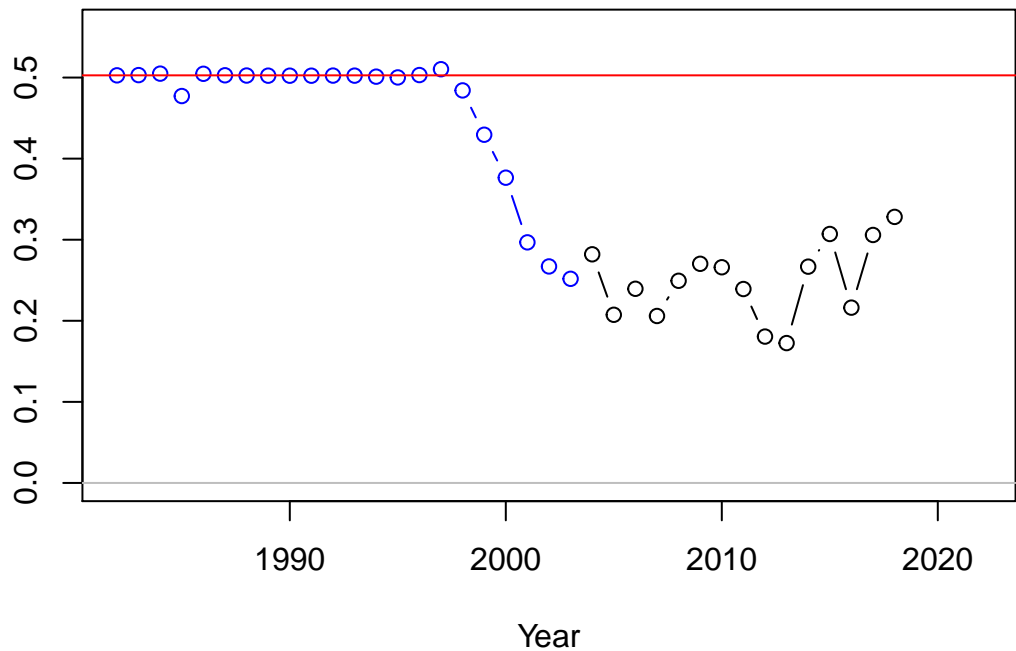


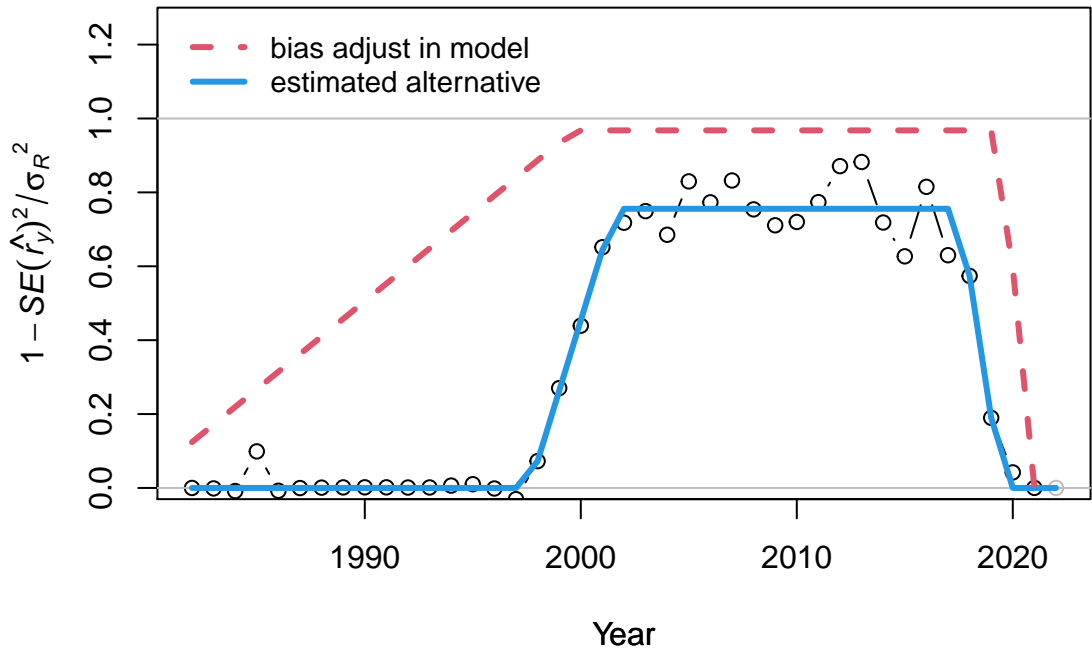
Log recruitment deviation

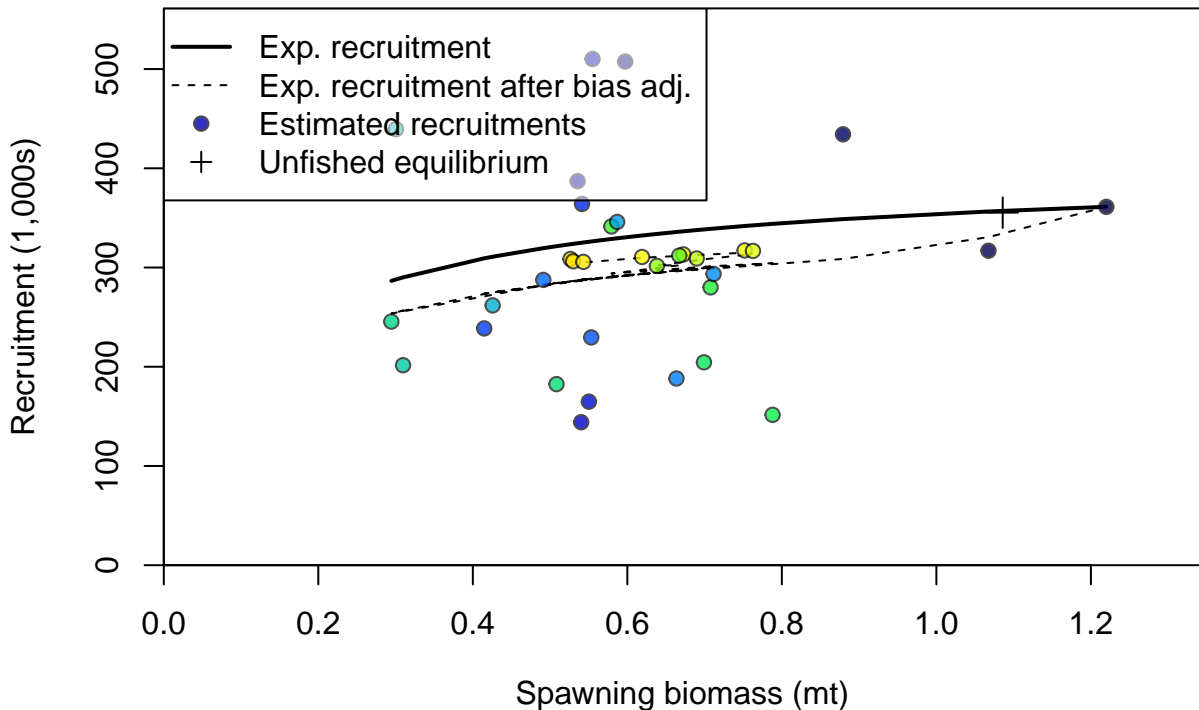


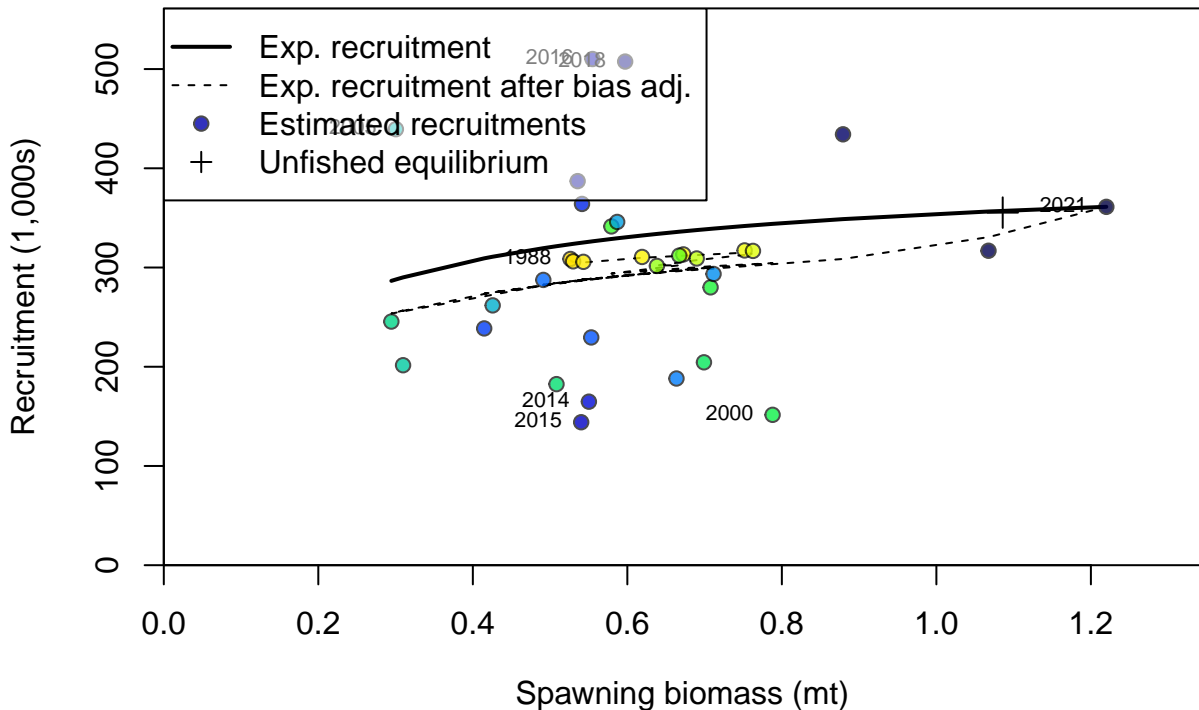
Recruitment deviation variance

Asymptotic standard error estimate

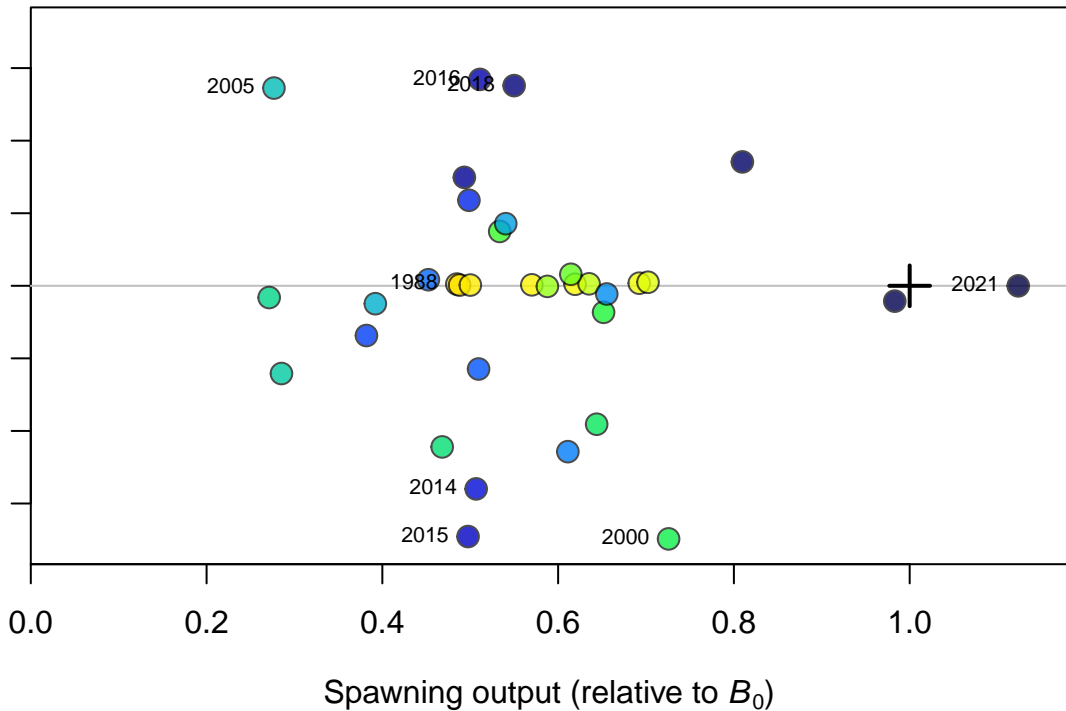


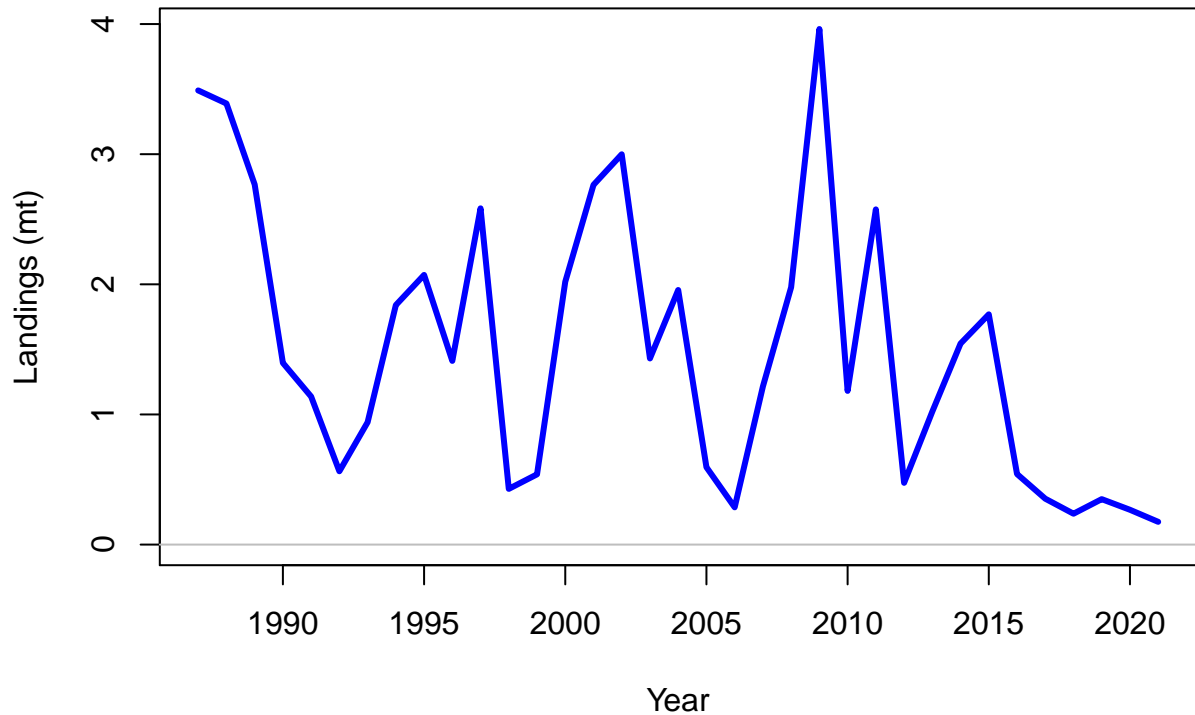


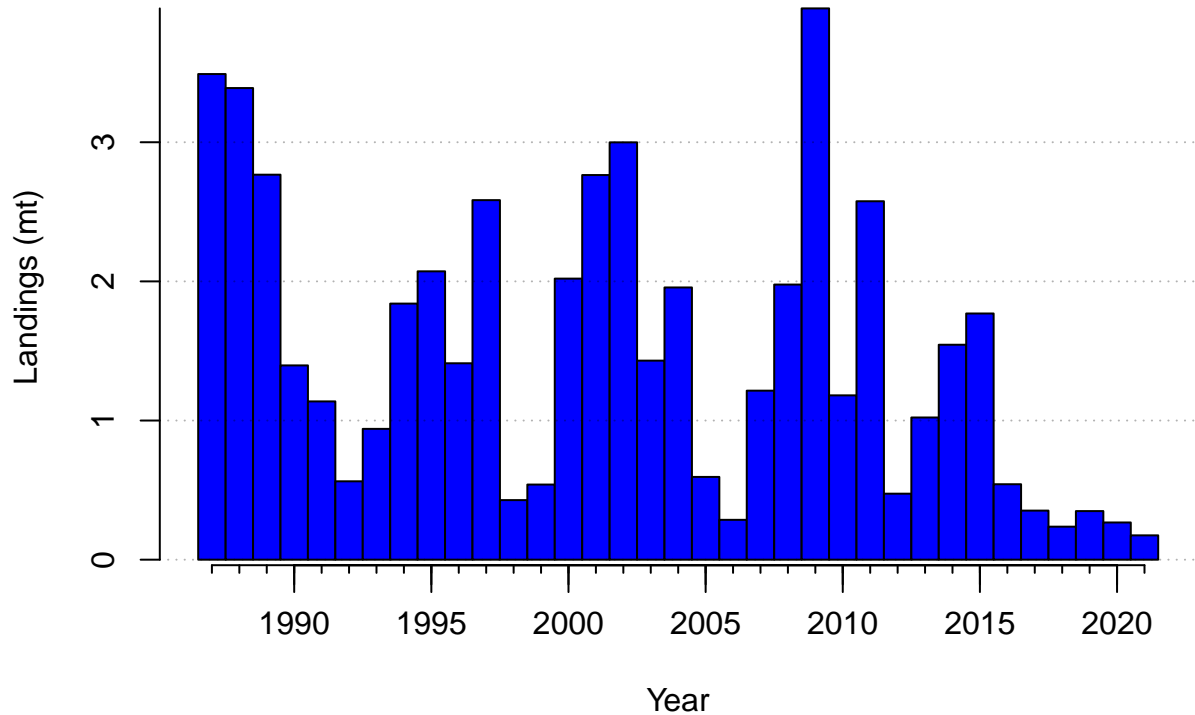


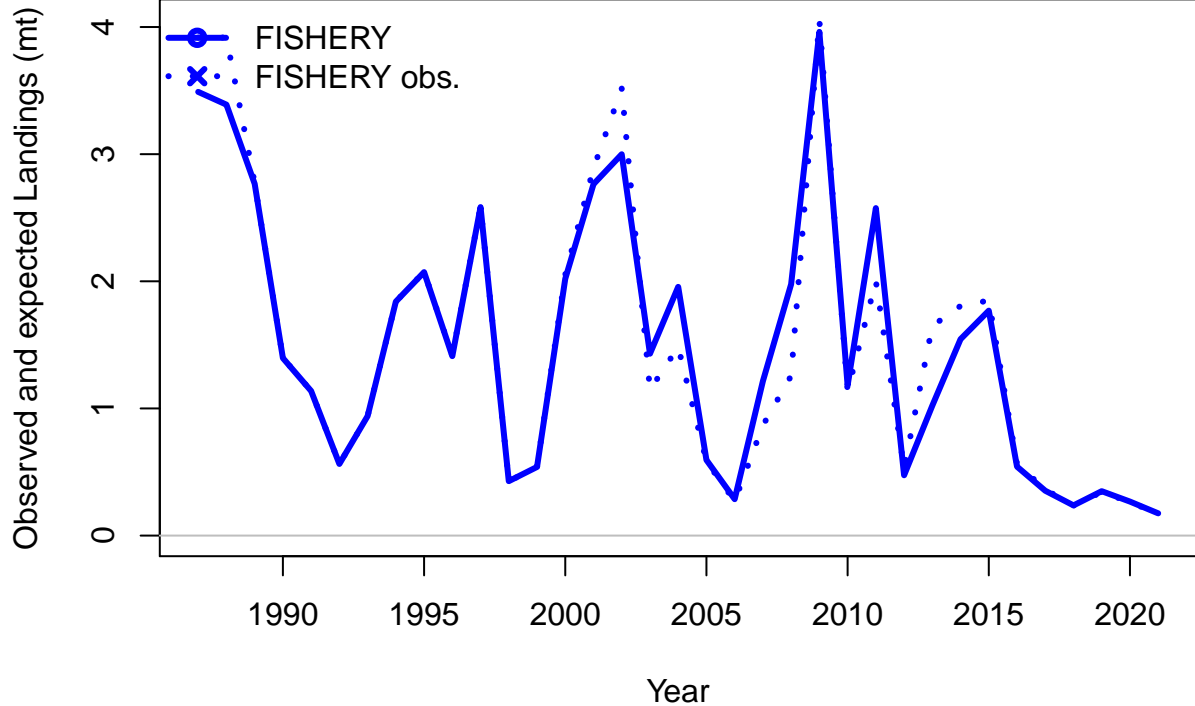


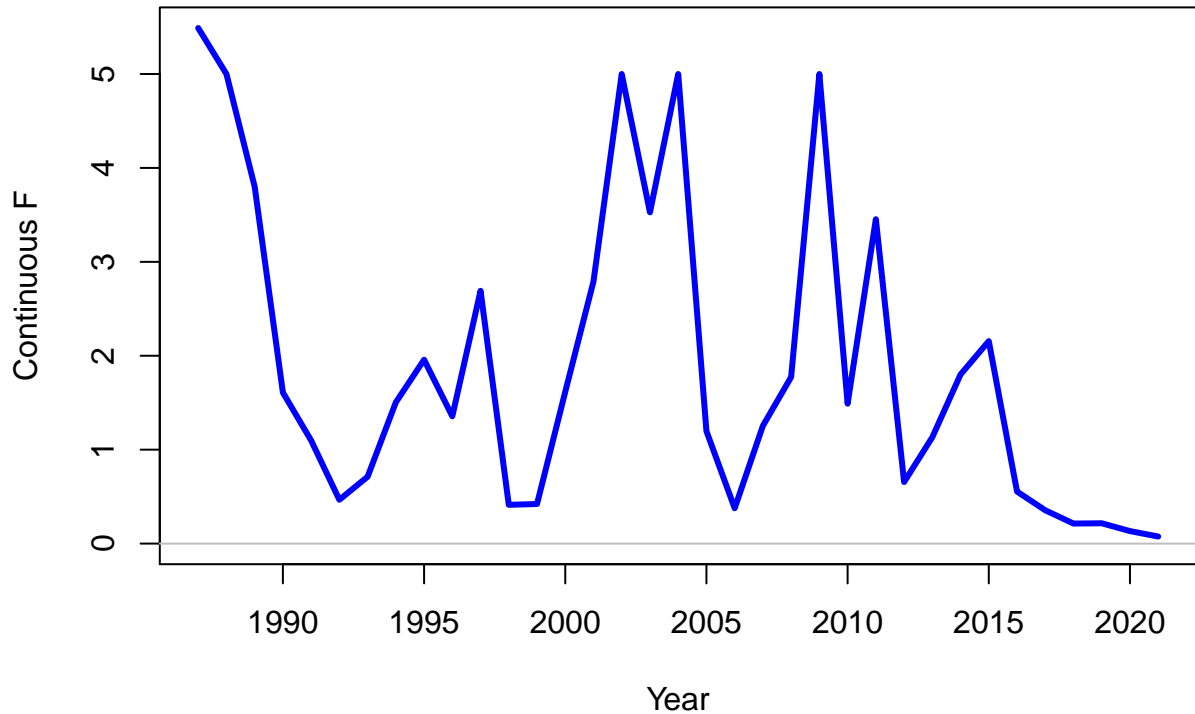
Log recruitment deviation



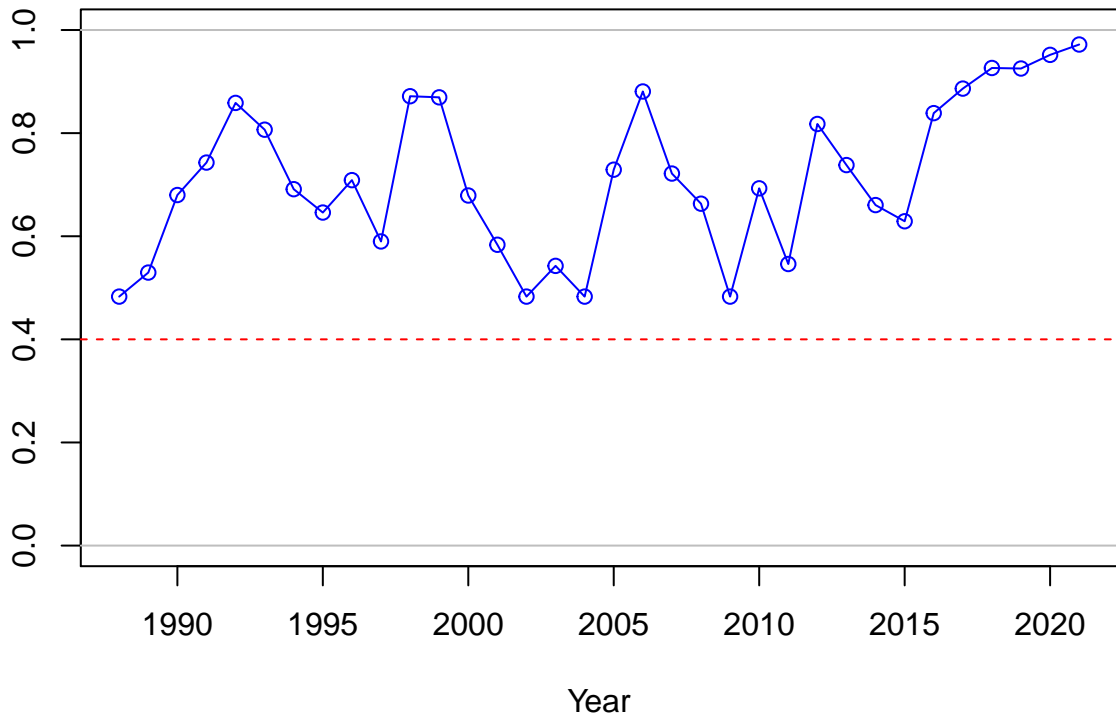


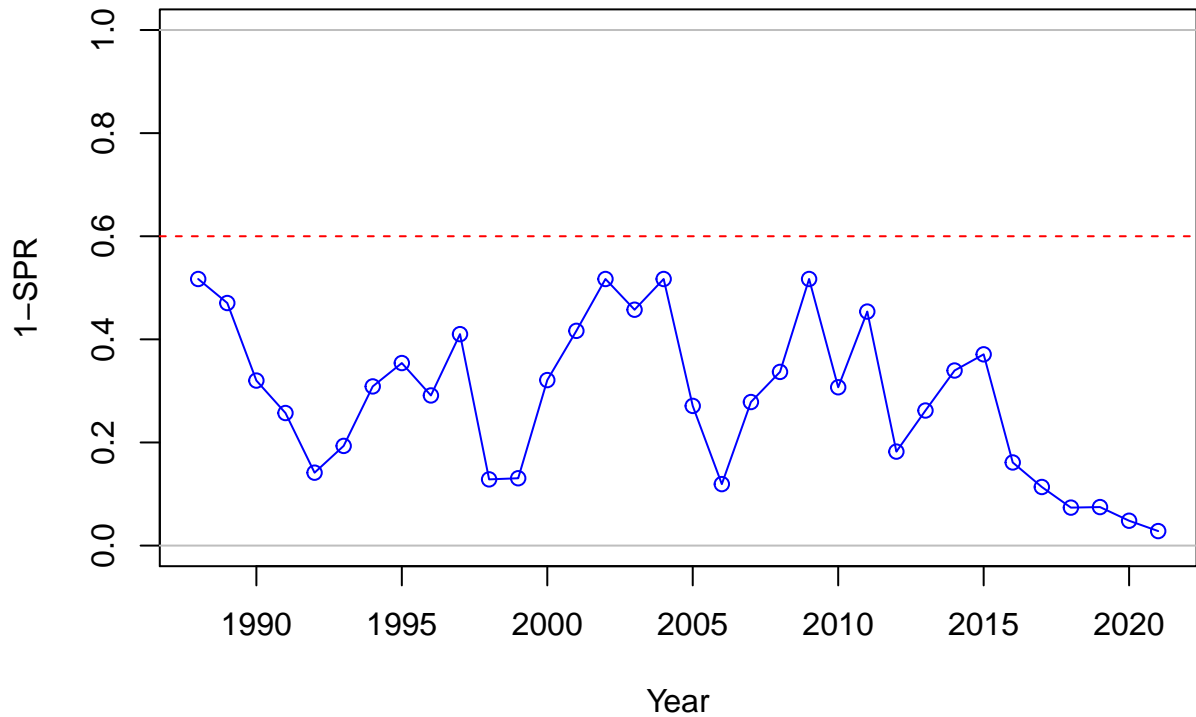




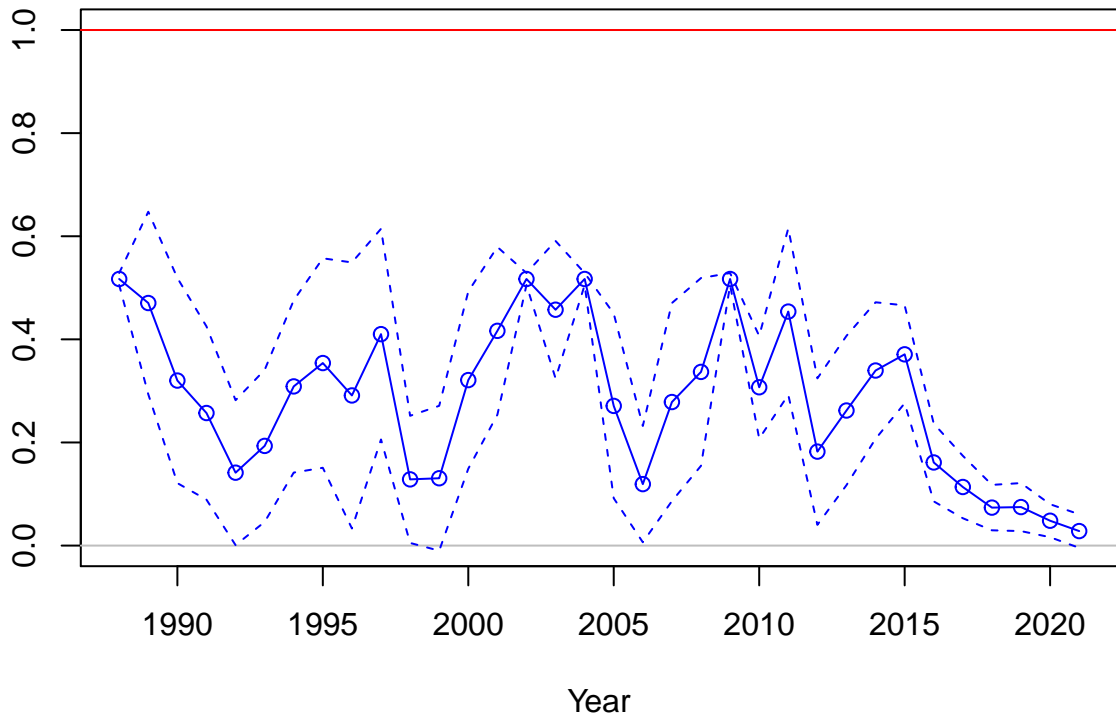


SPR

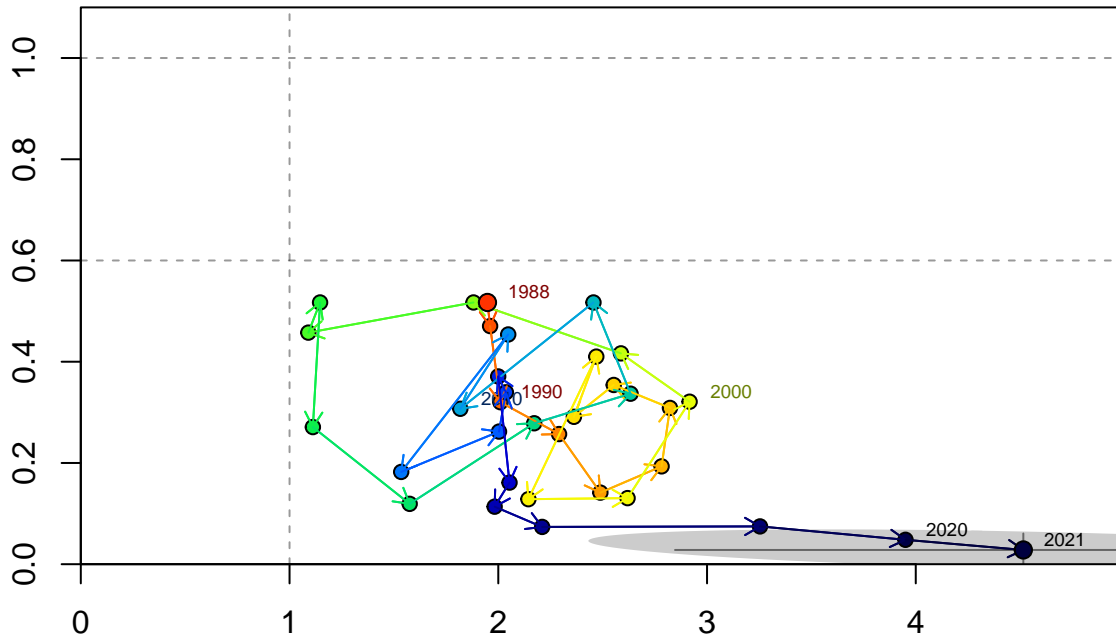




Fishing intensity: 1-SPR



Fishing intensity: 1-SPR

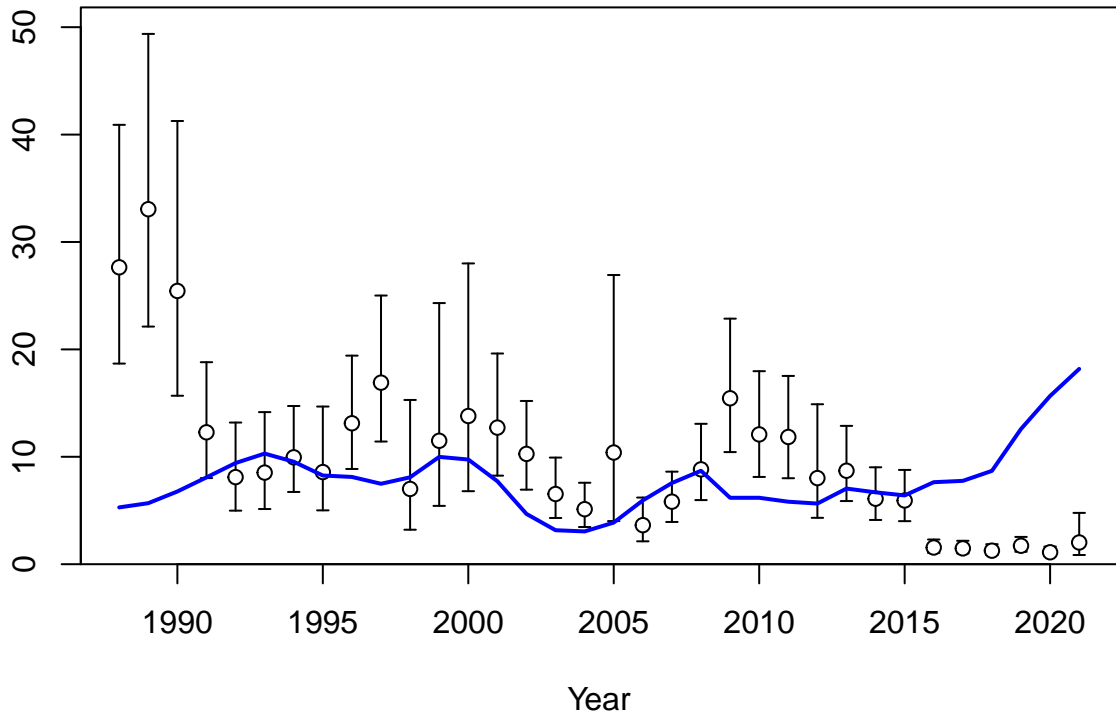


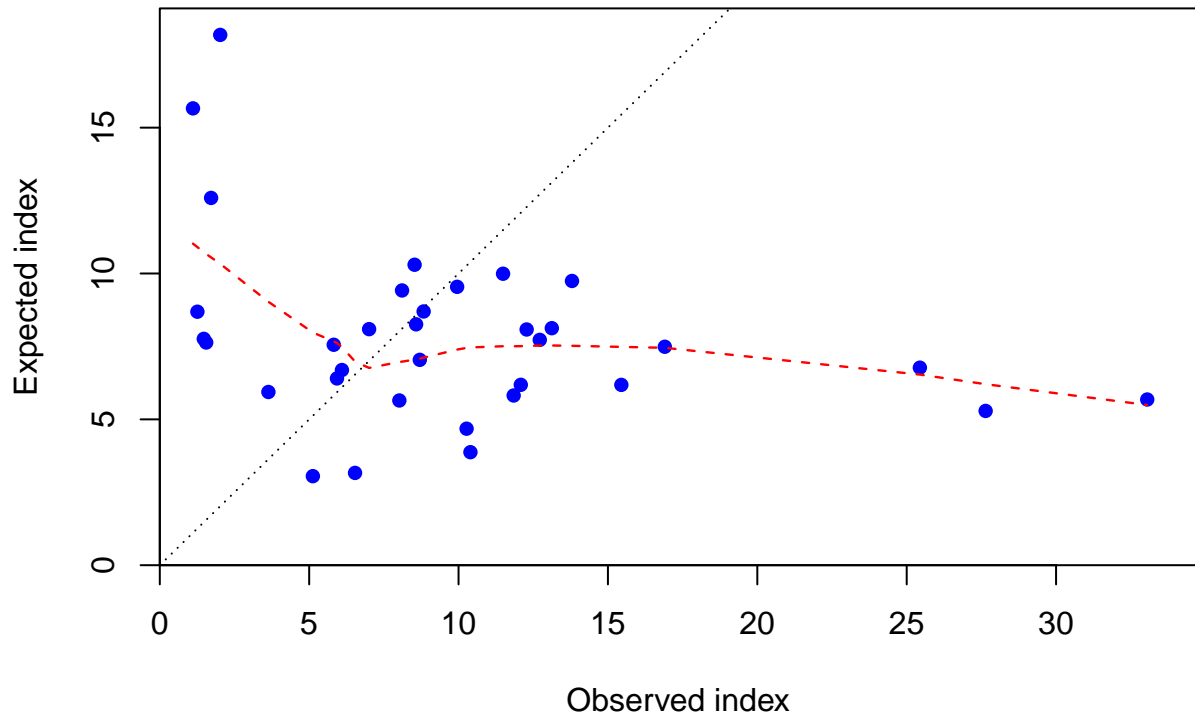
Relative spawning output: B/B_{MSY}

Index



Index

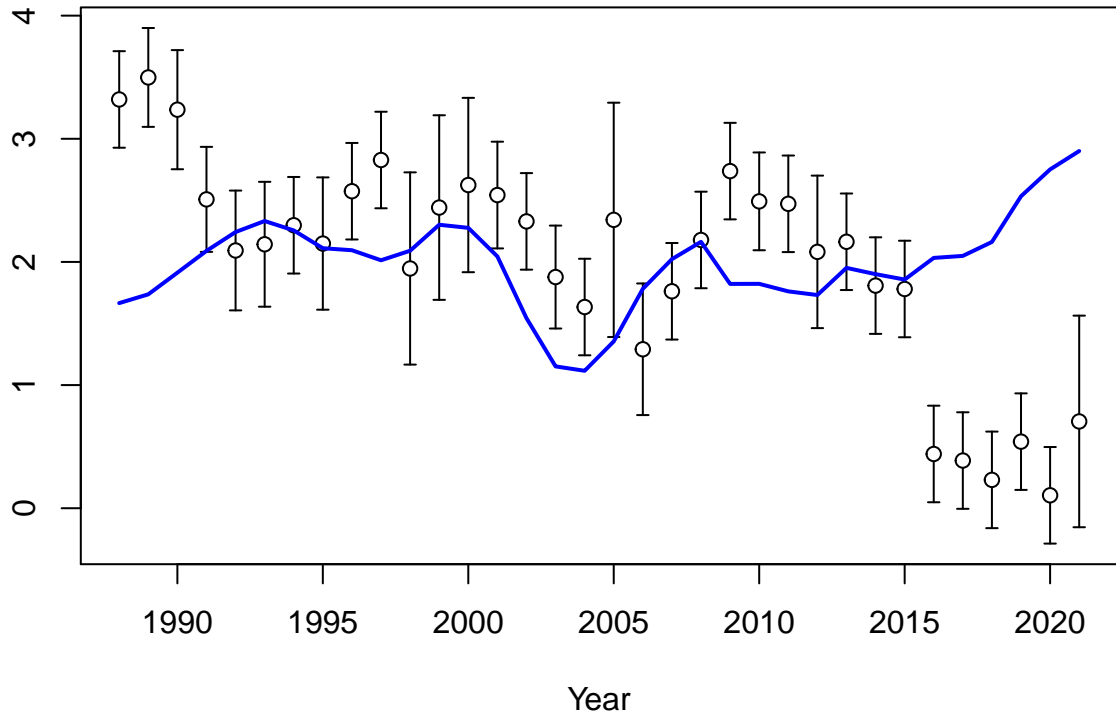


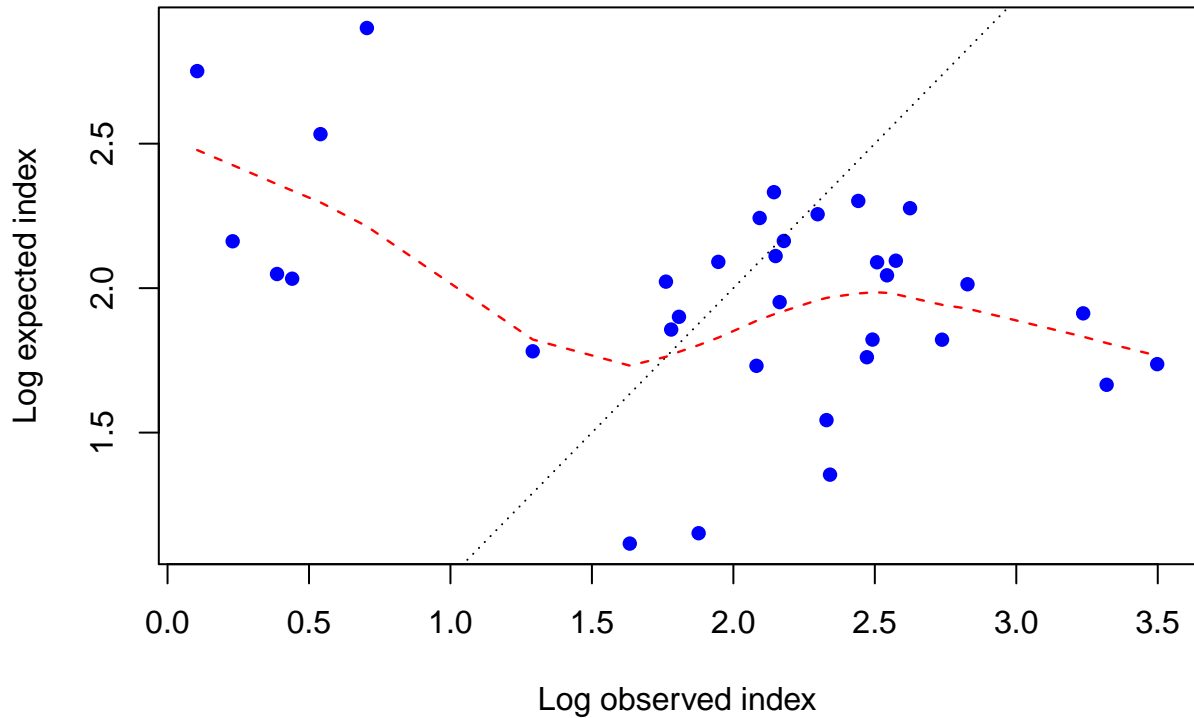


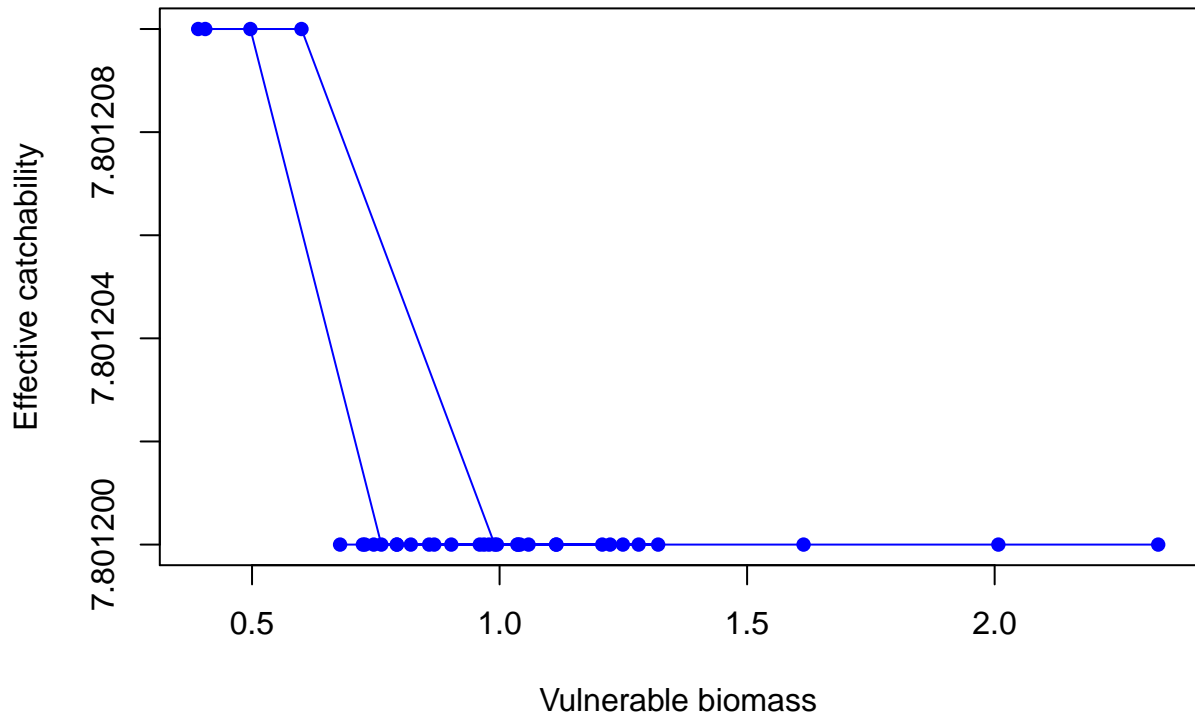
Log index

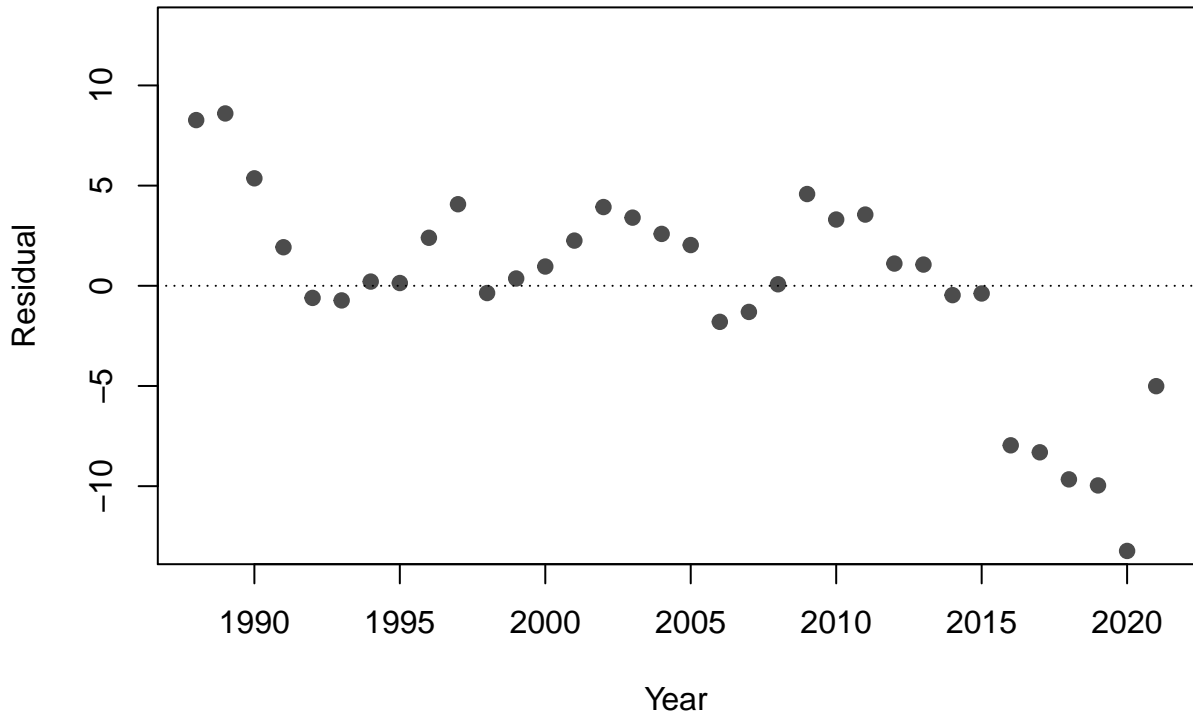


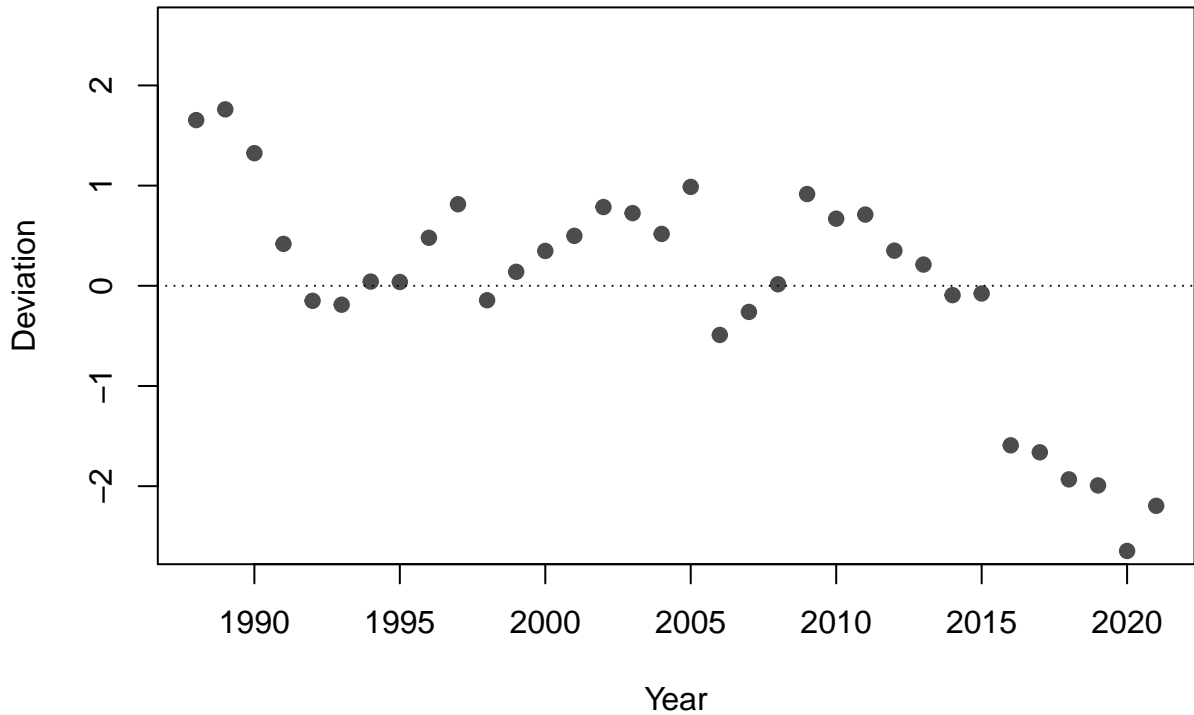
Log index



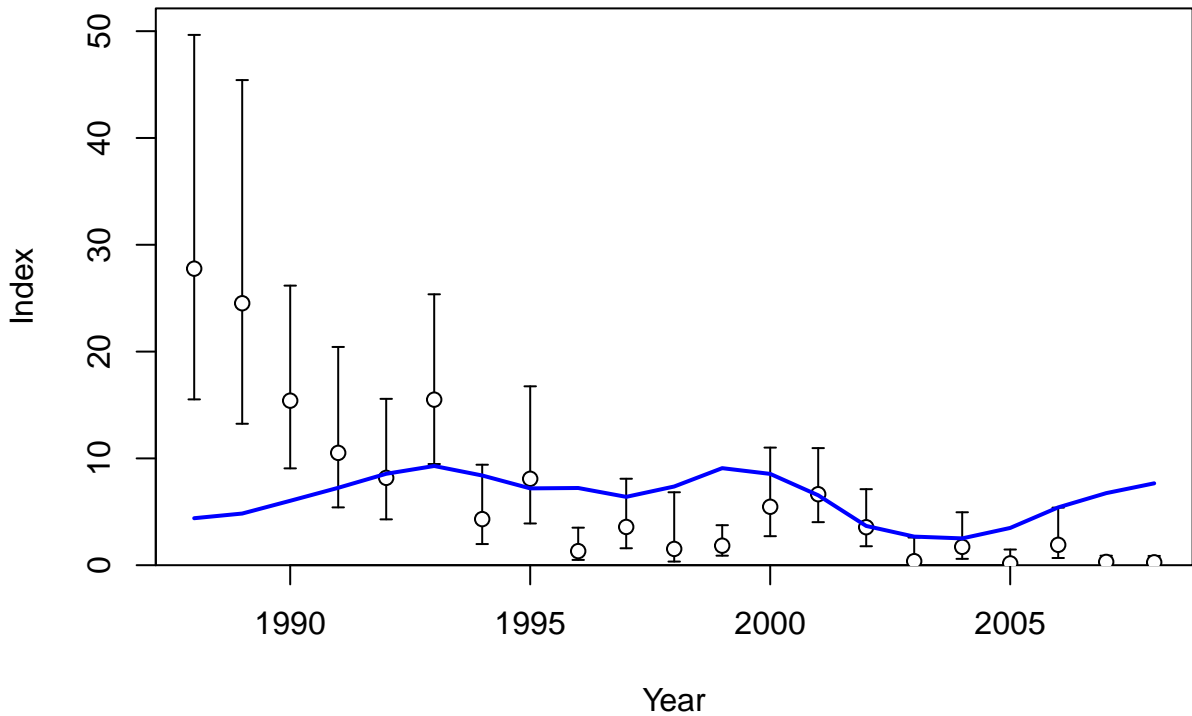


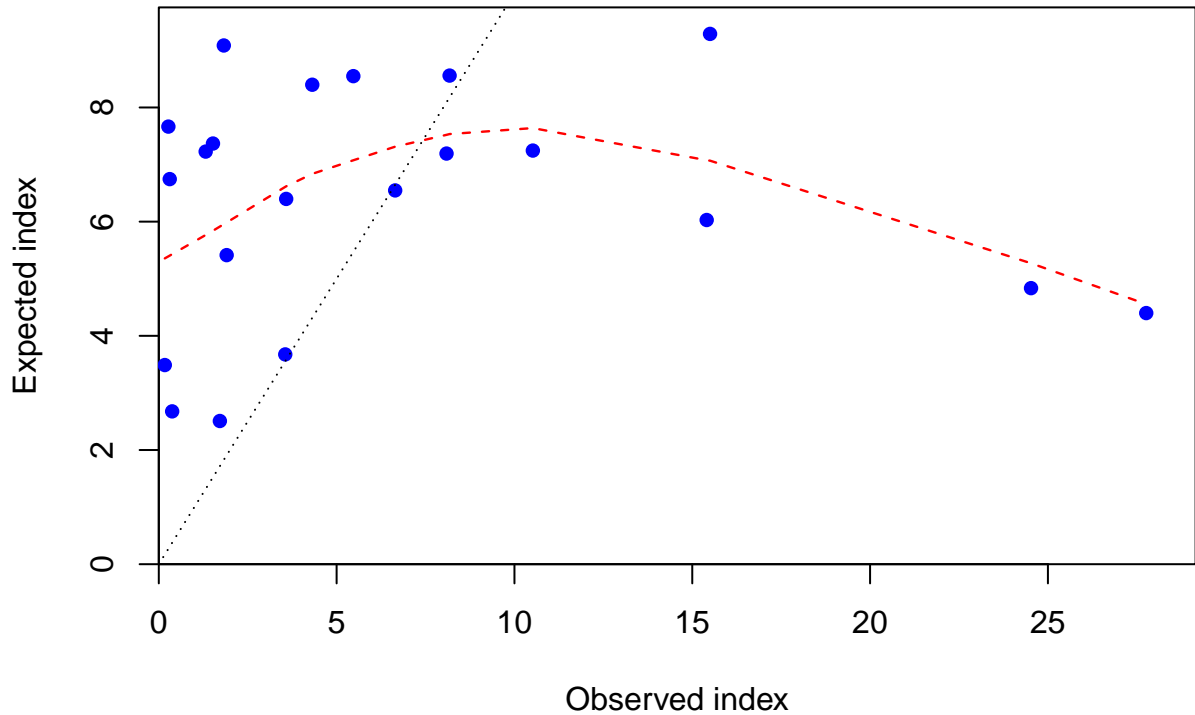




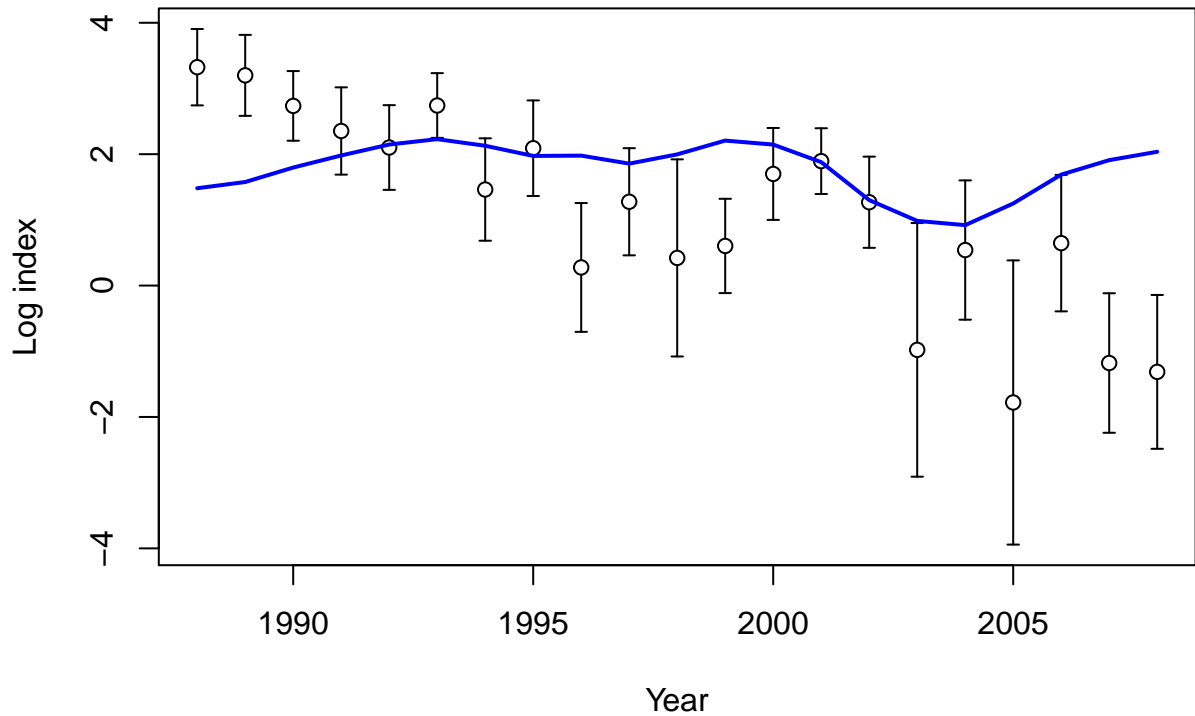


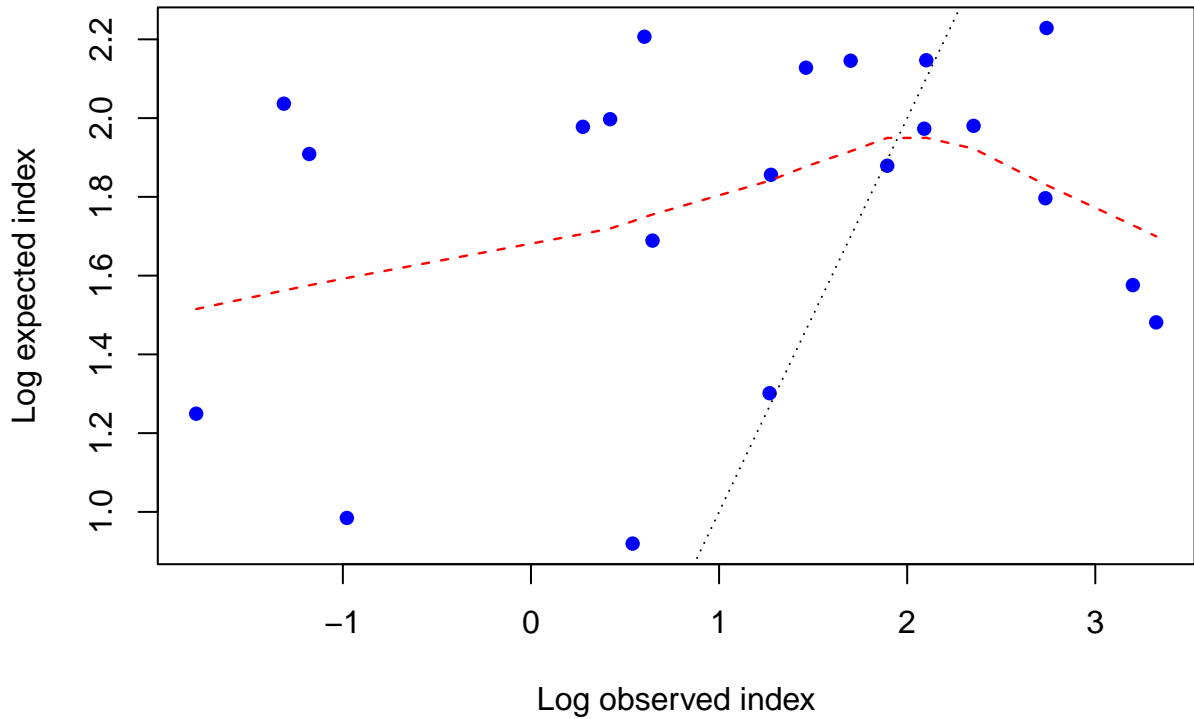




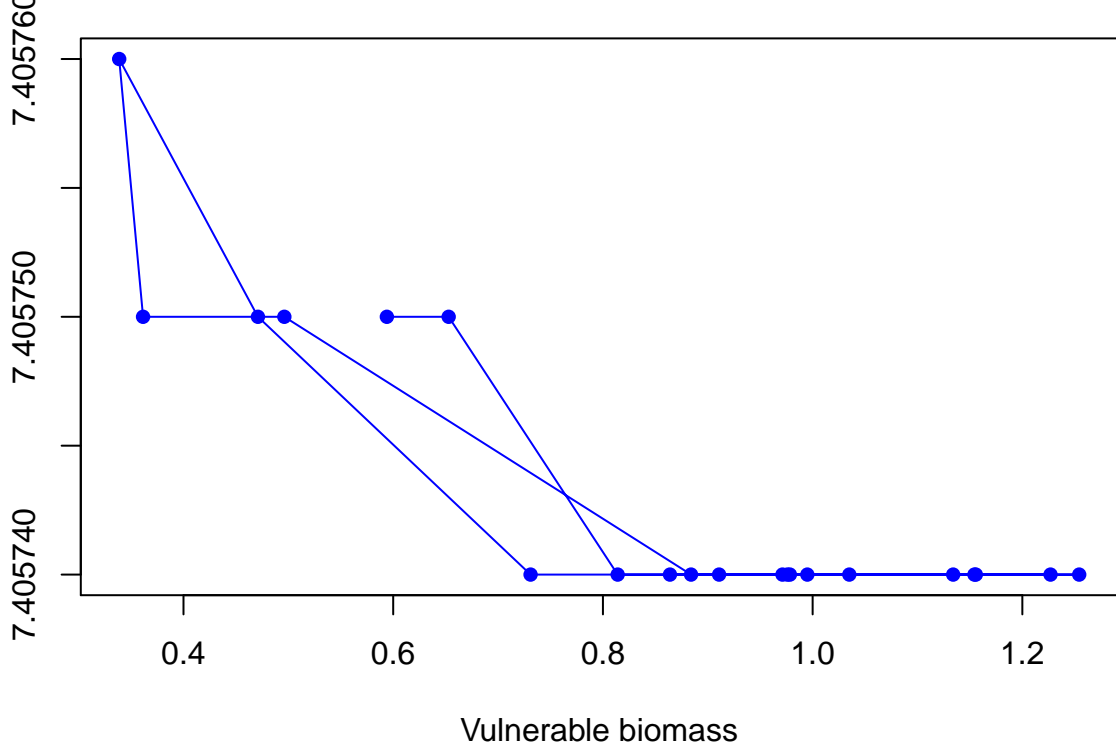


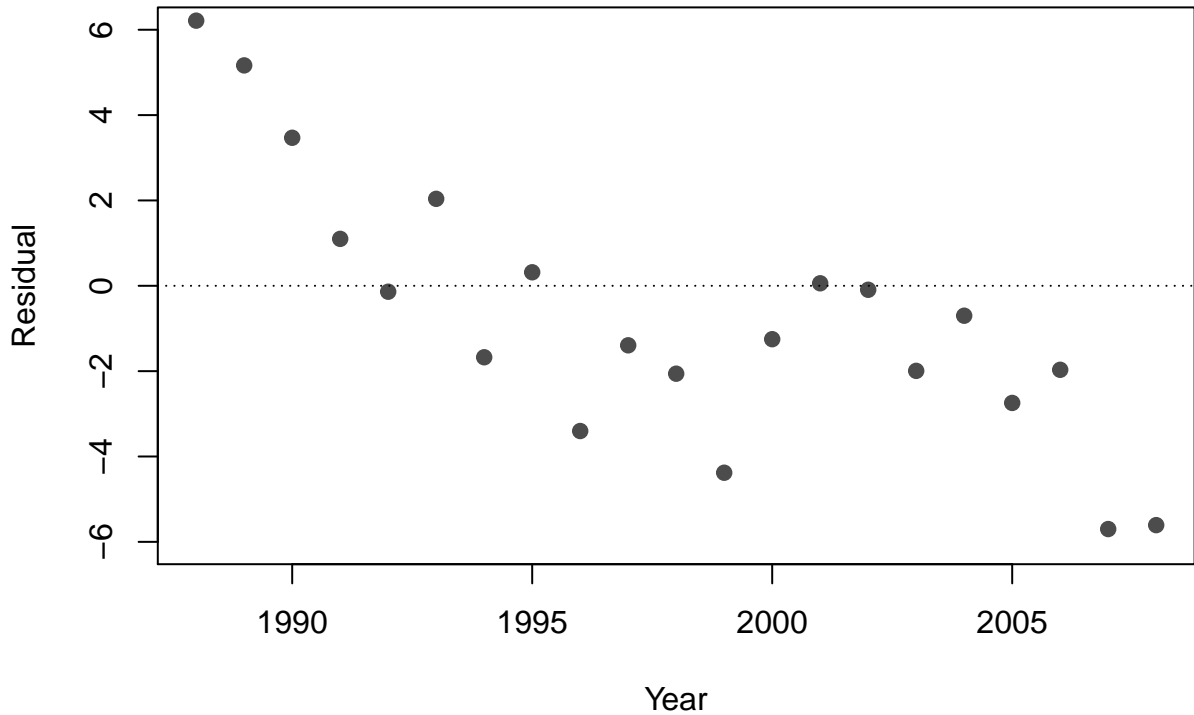


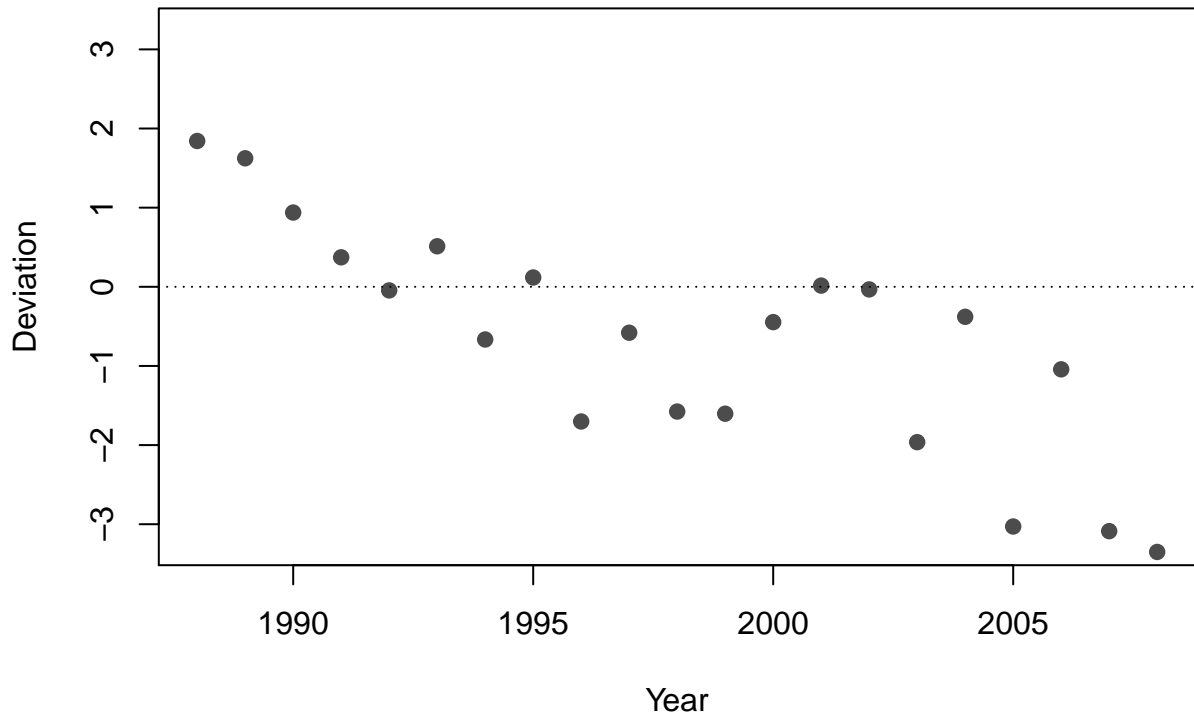




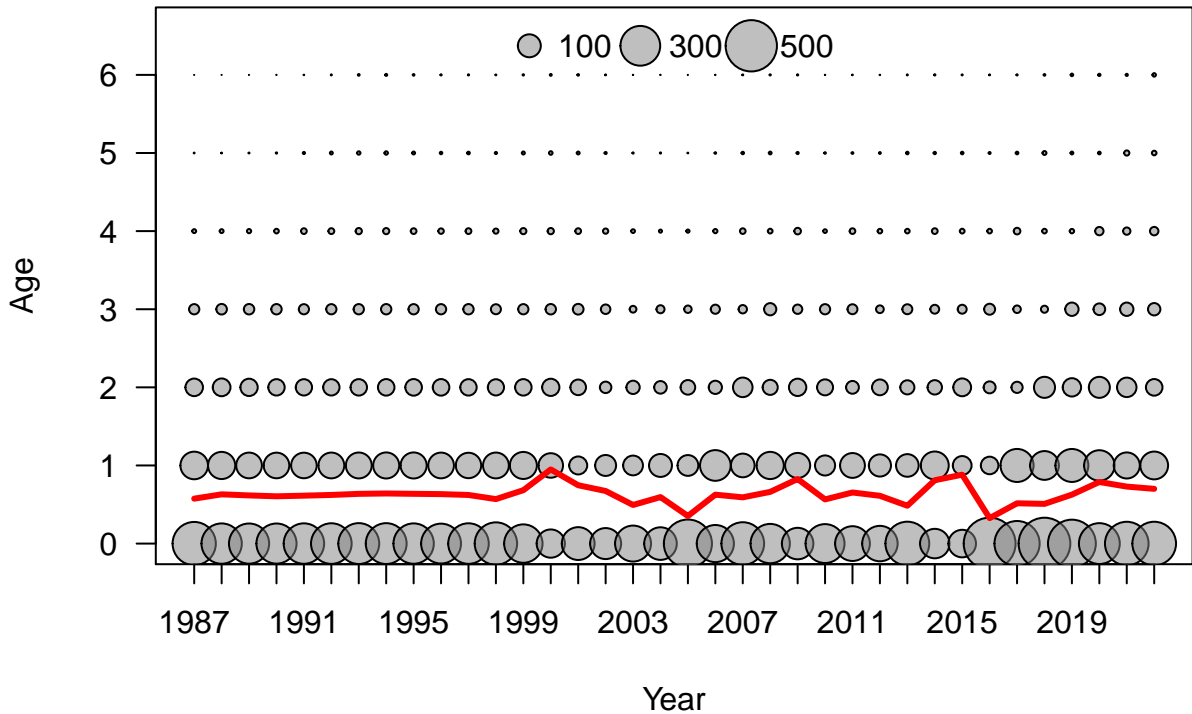
Effective catchability



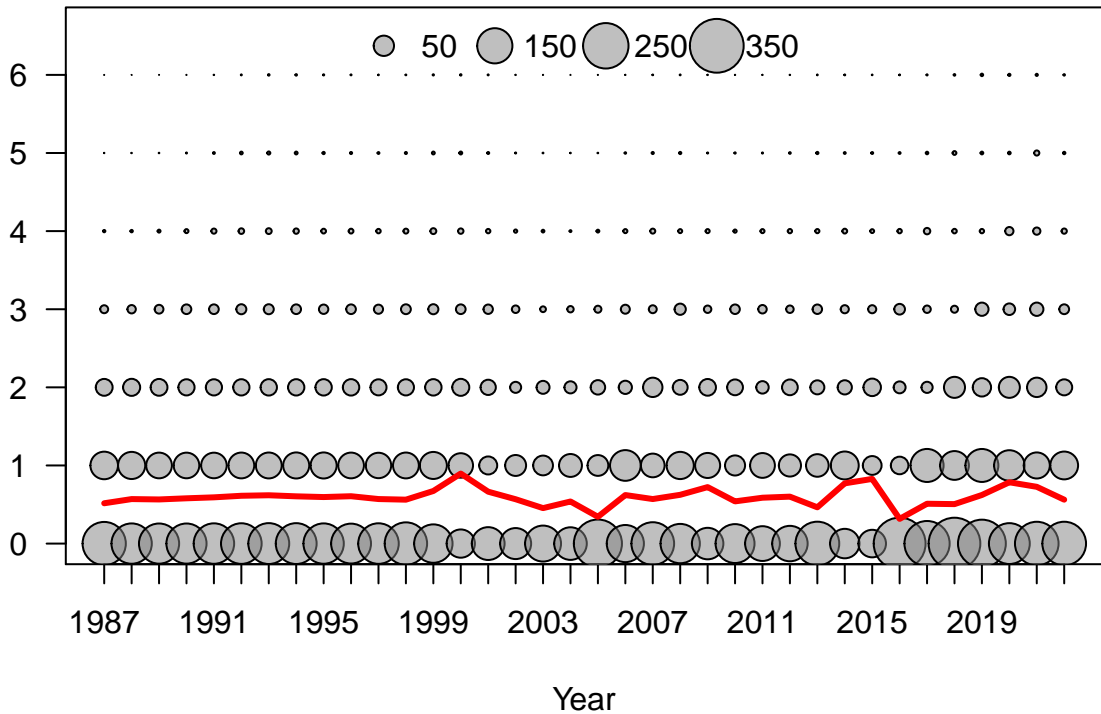


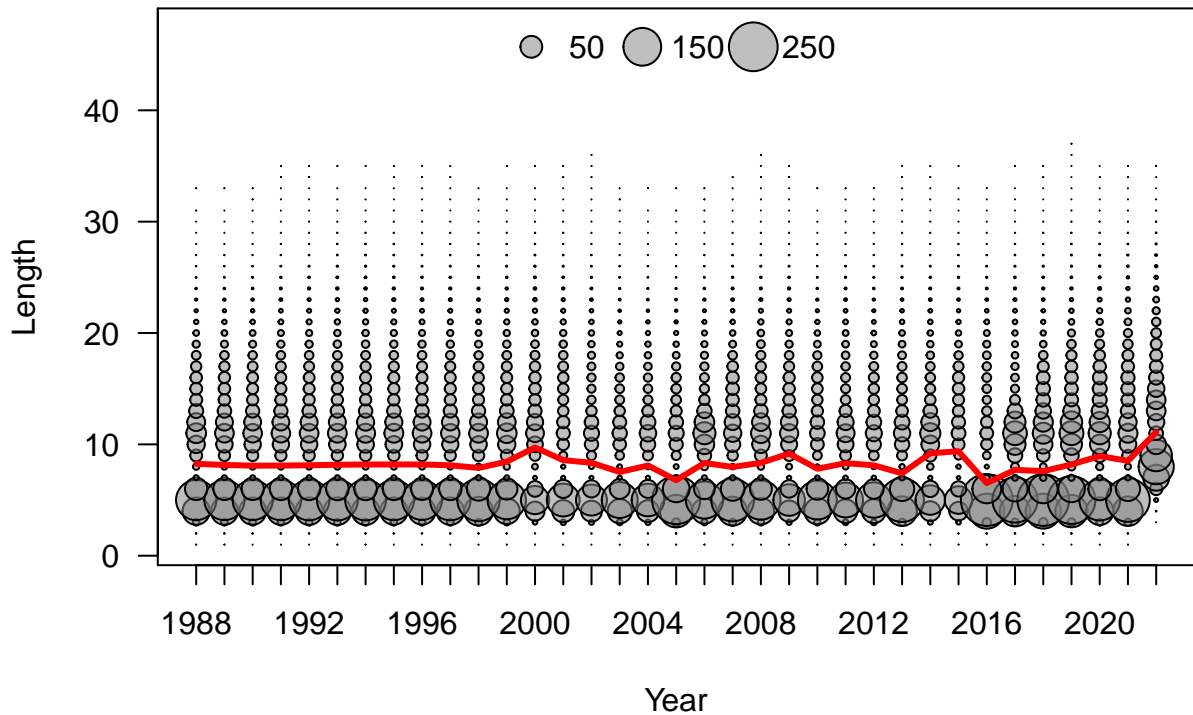


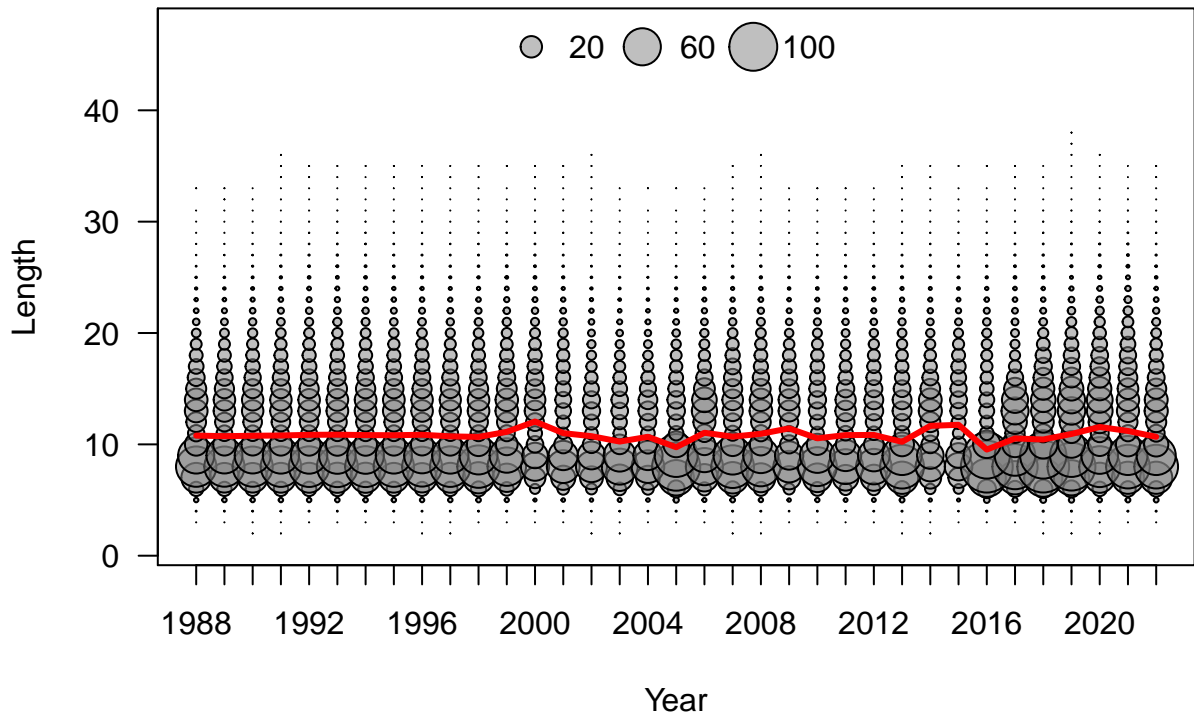


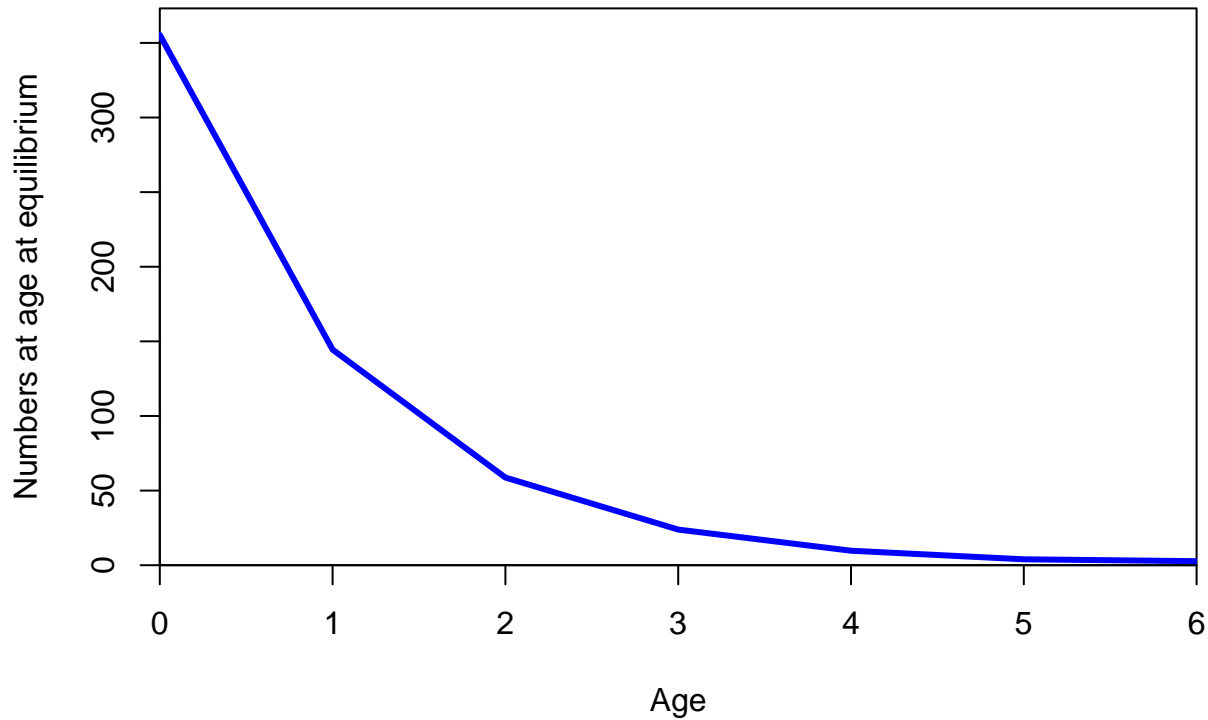


Age



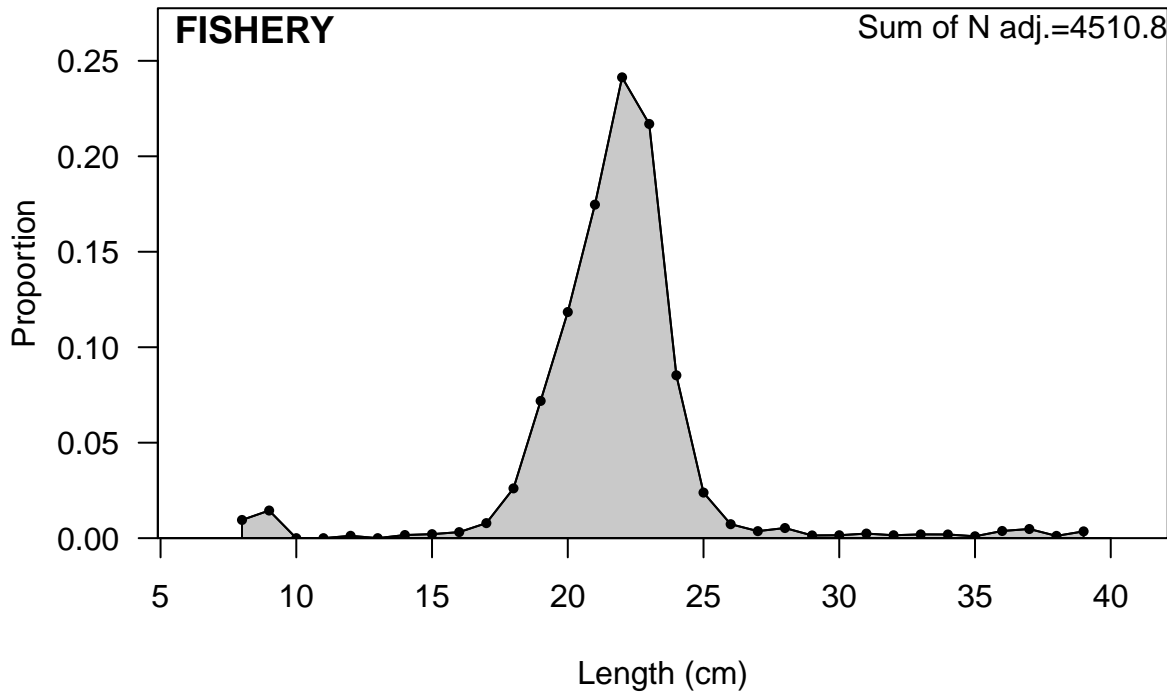


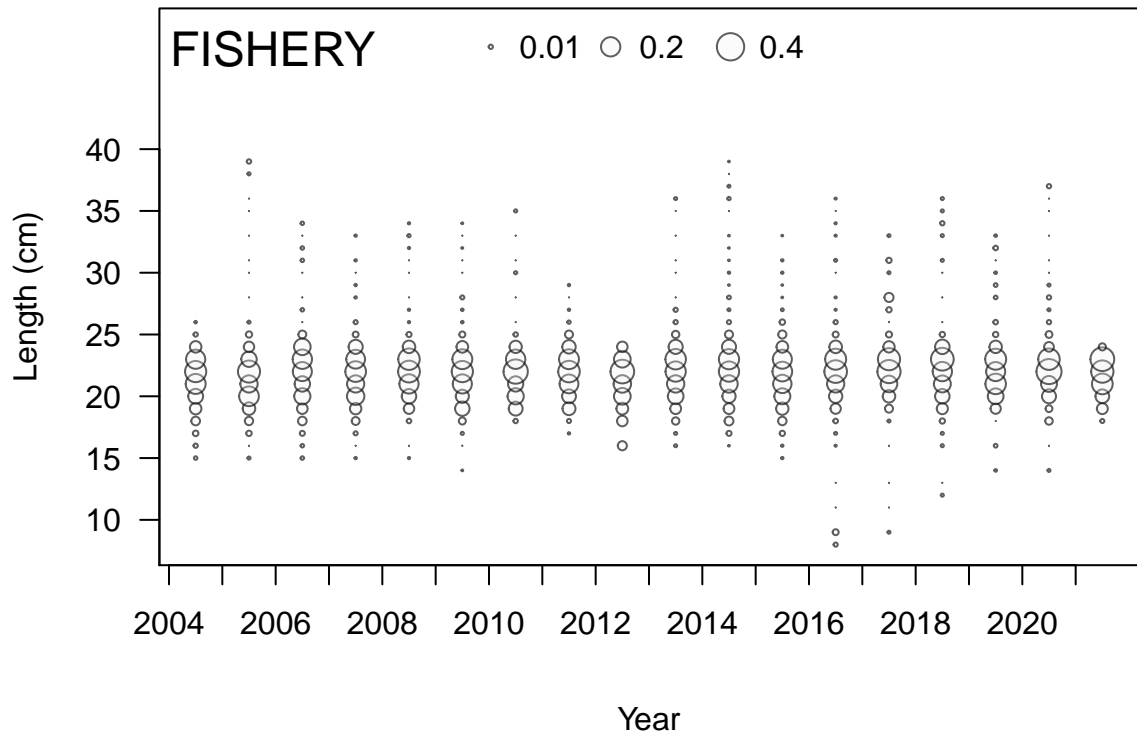


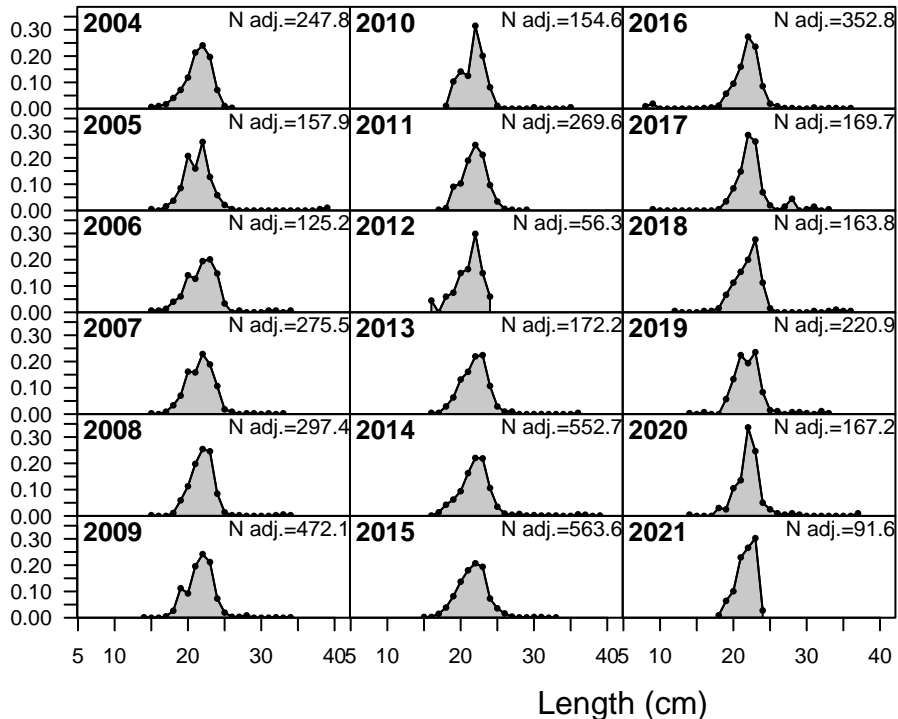


FISHERY

Sum of N adj.=4510.8

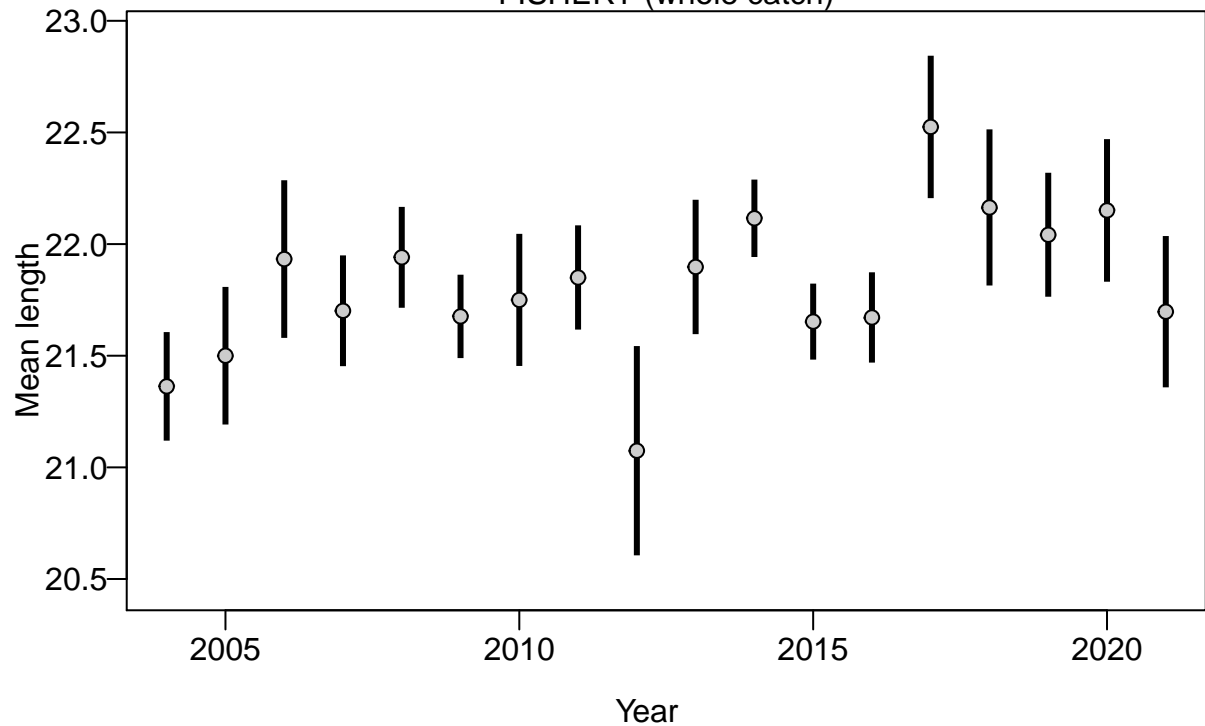






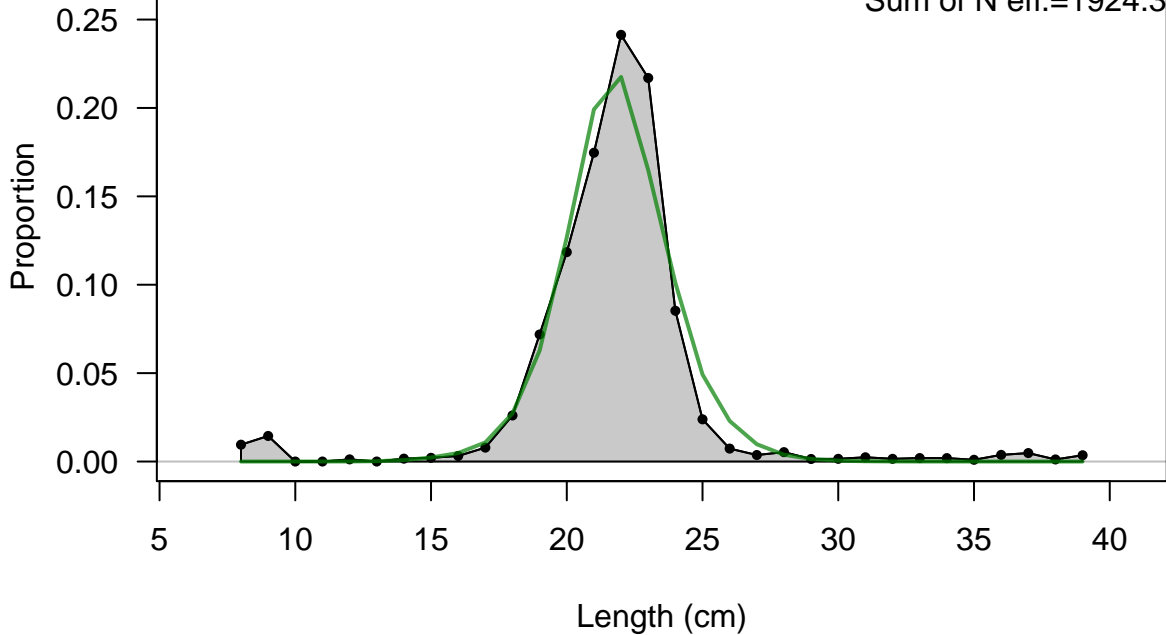


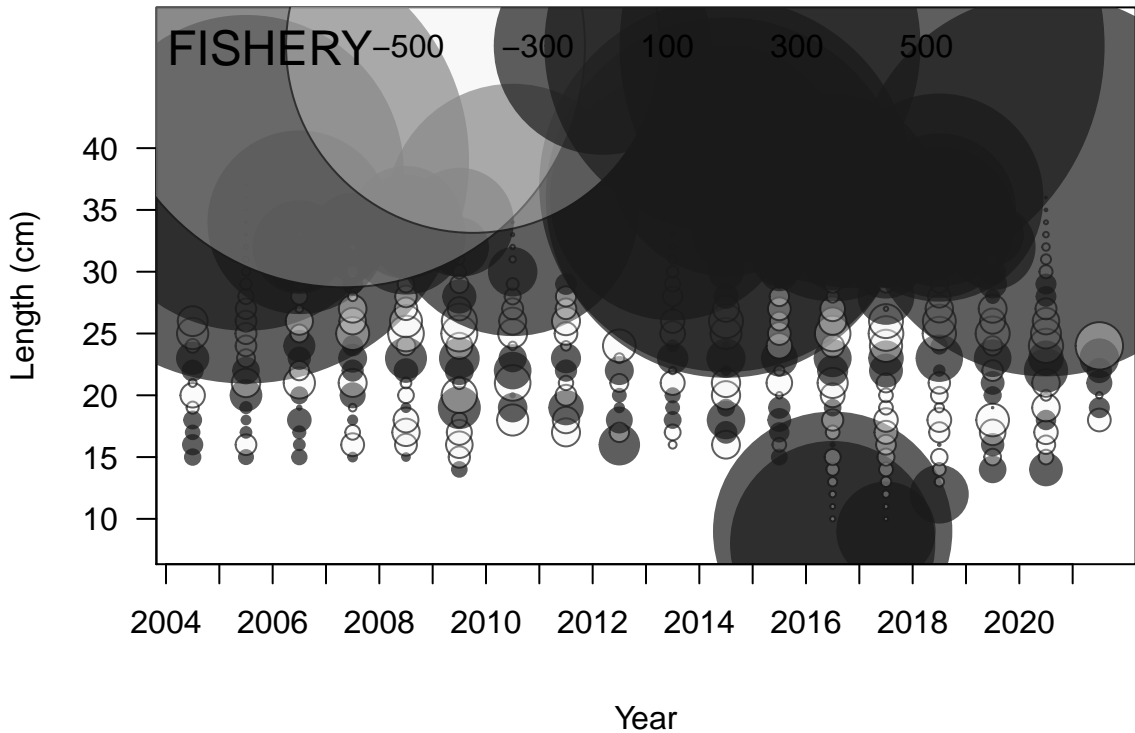
FISHERY (whole catch)

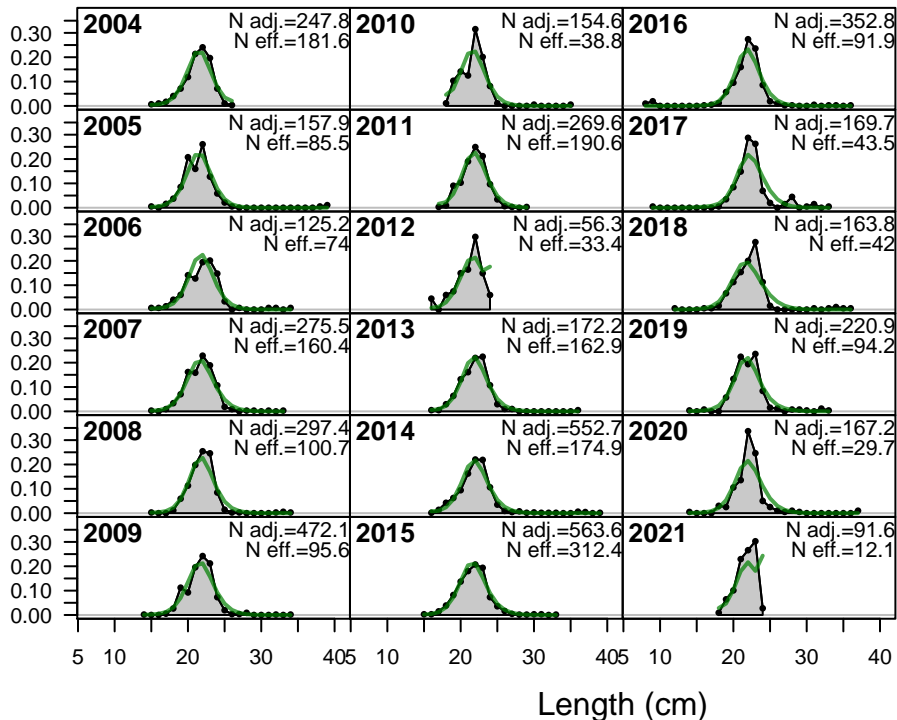


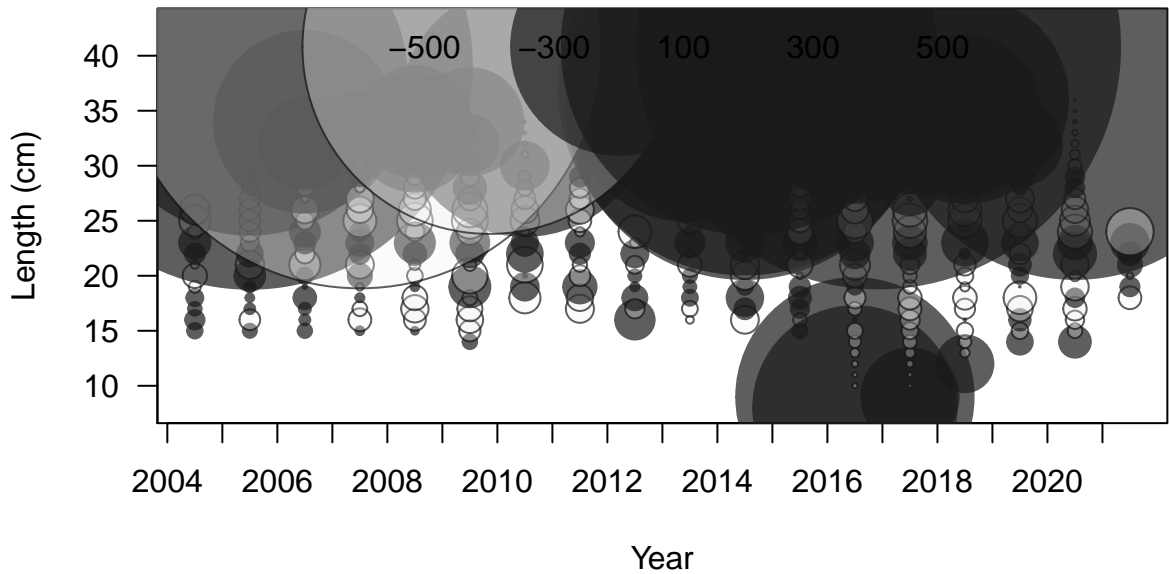
FISHERY

Sum of N adj.=4510.8
Sum of N eff.=1924.3

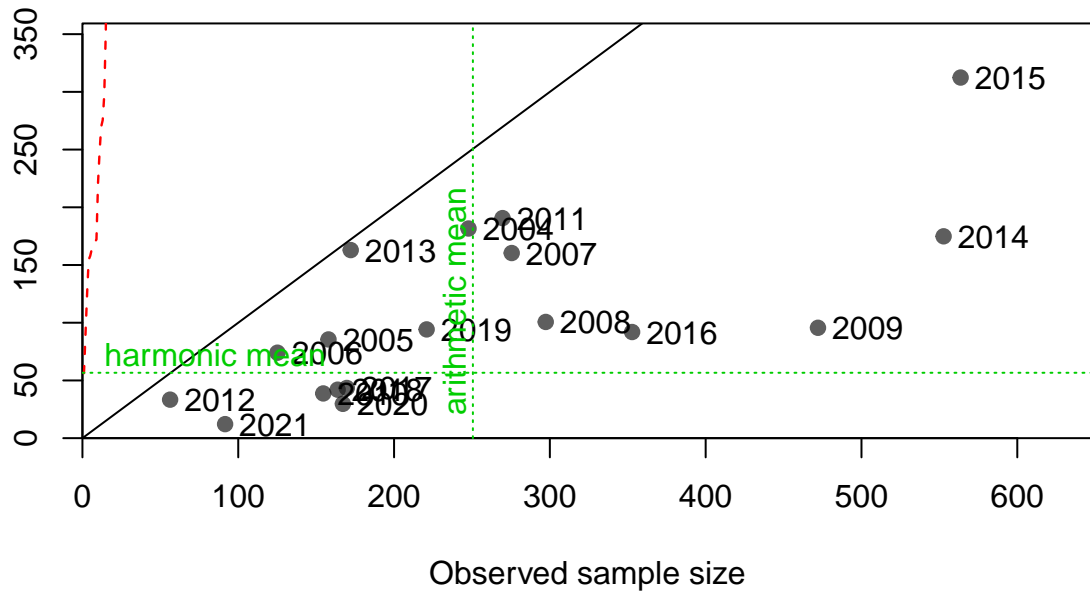




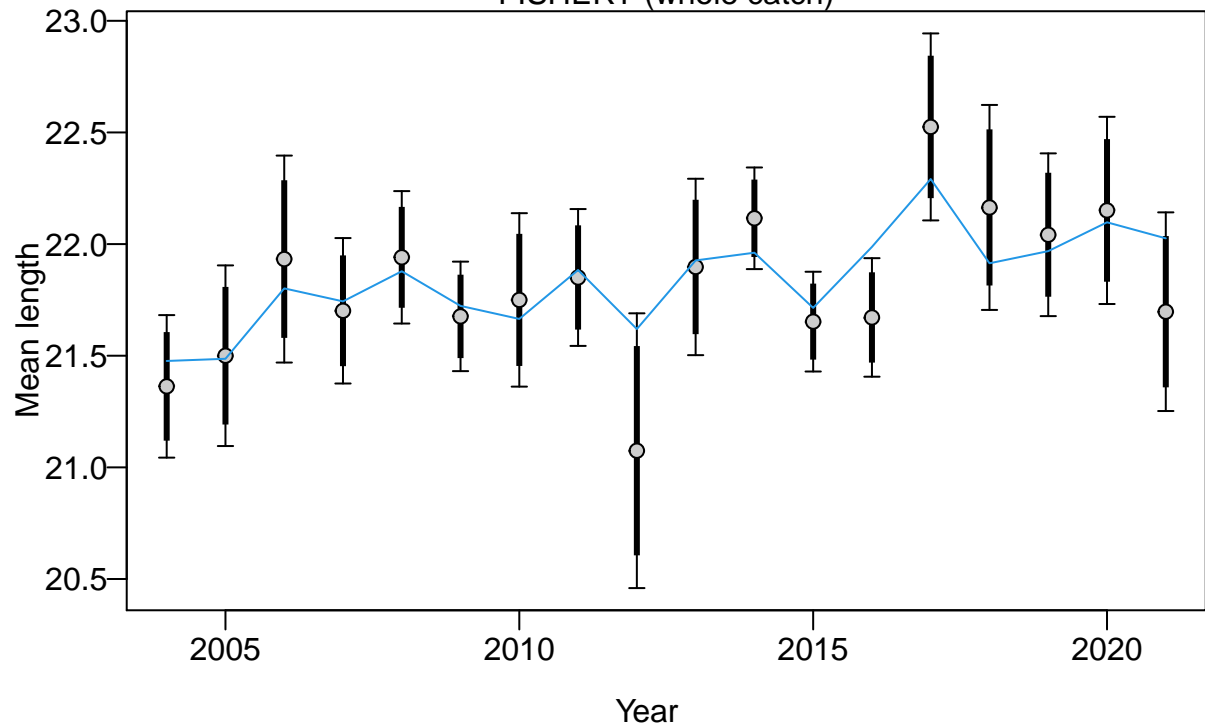


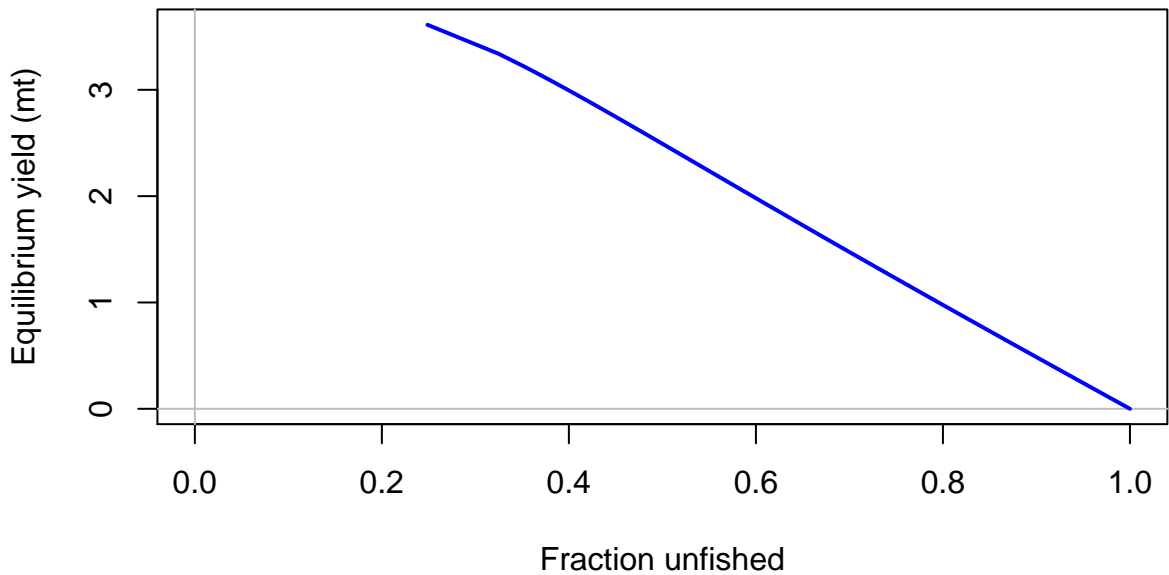


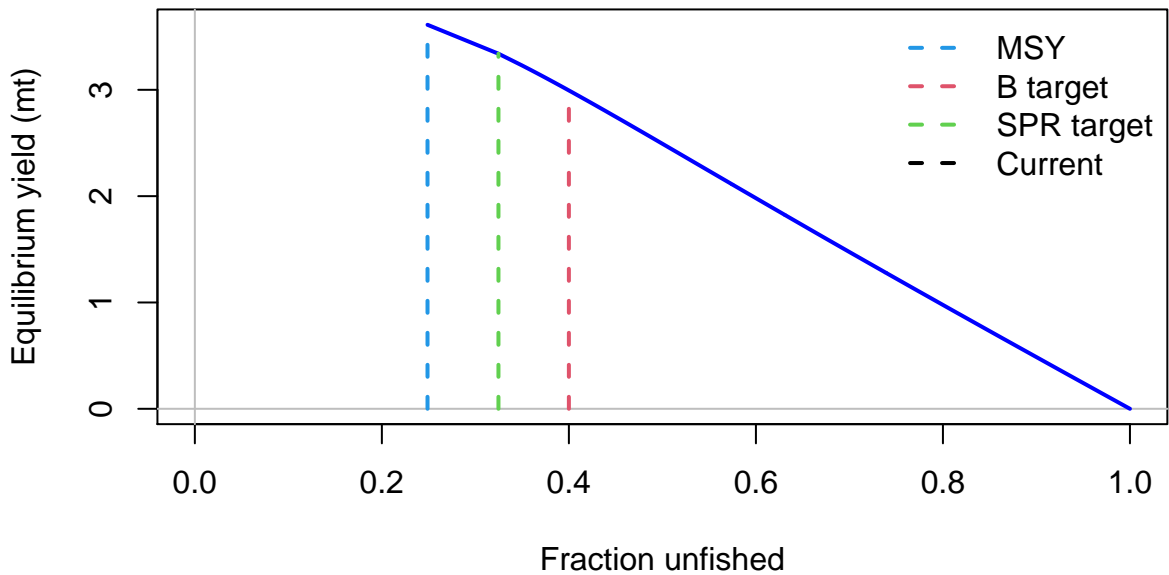
Effective sample size



FISHERY (whole catch)







Surplus production (mt)

3
2
1
0

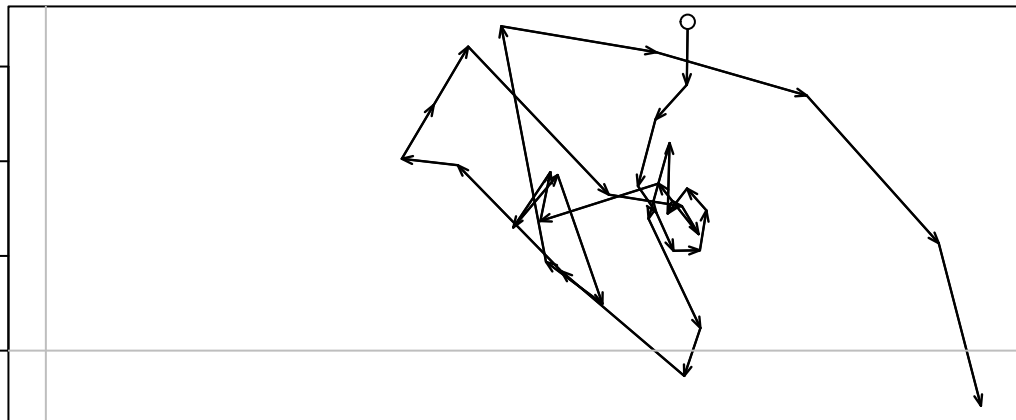
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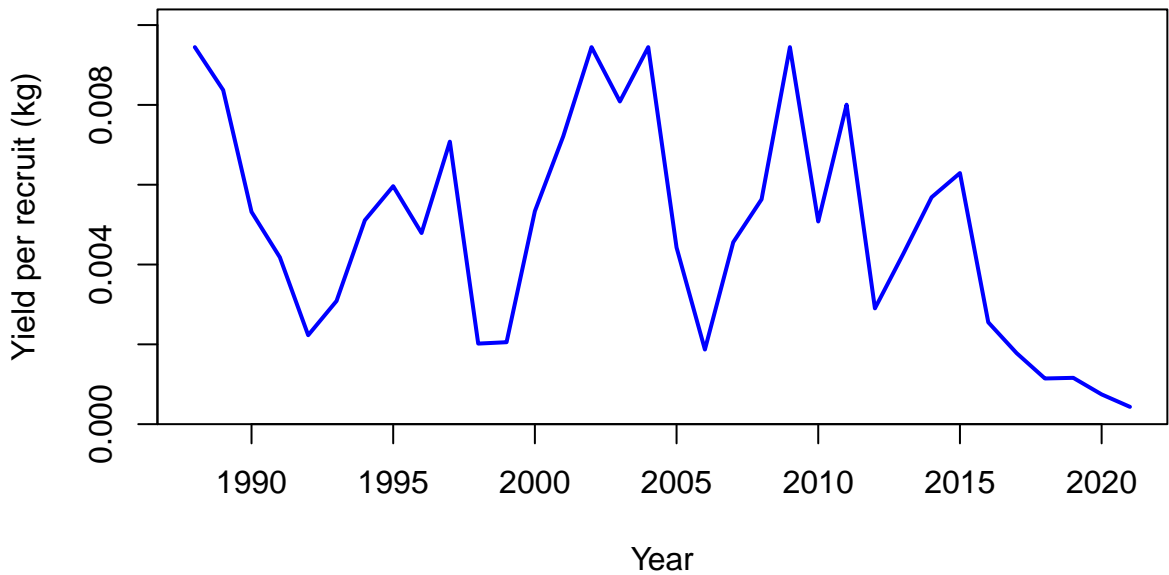
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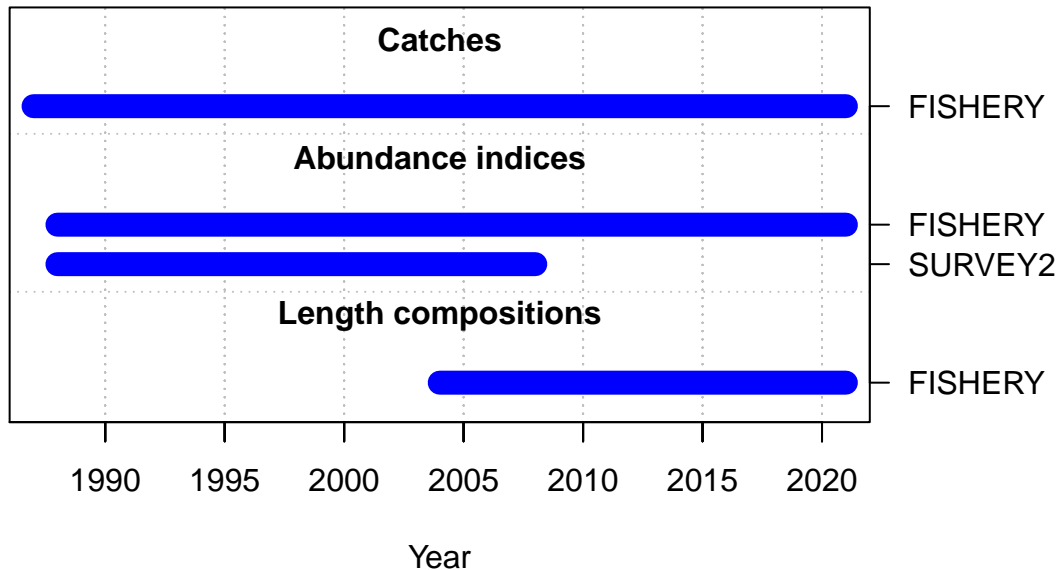
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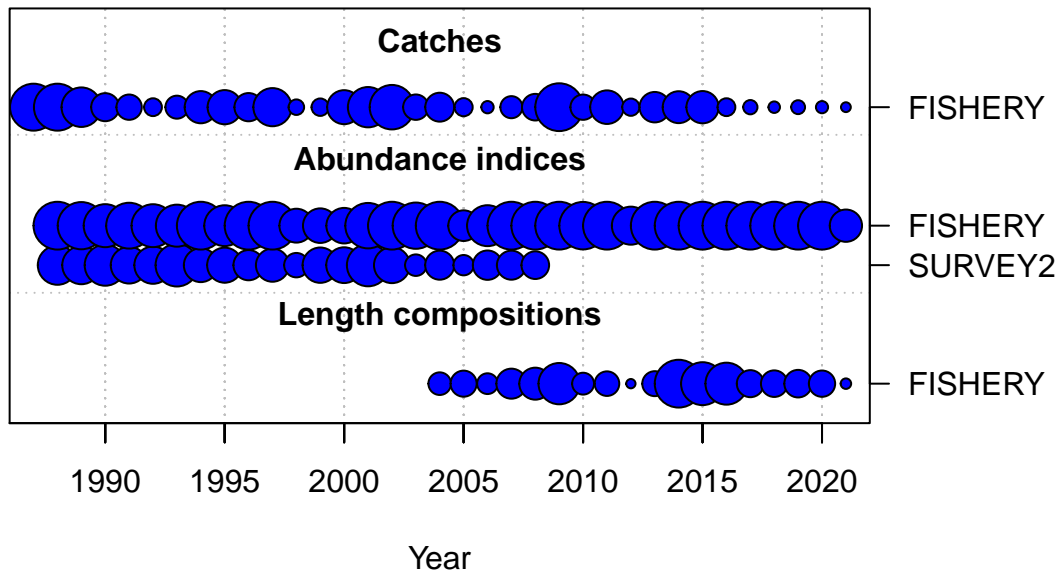
15

Total biomass (mt)





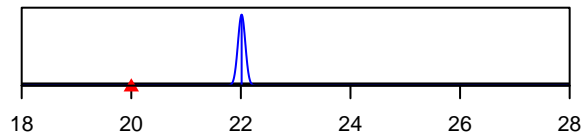




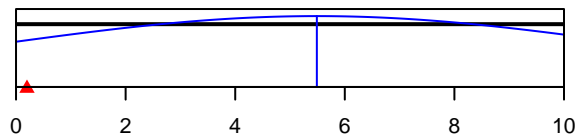
SR_LN(R0)



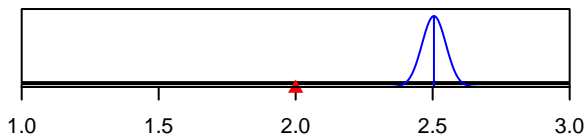
Size_inflection_FISHERY(1)



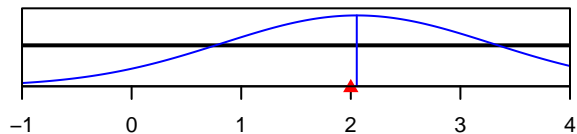
InitF_seas_1_flt_1FISHERY



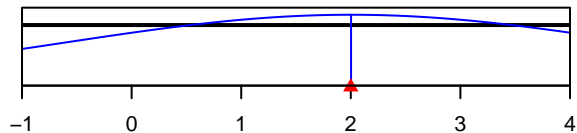
Size_95%width_FISHERY(1)



LnQ_base_FISHERY(1)



LnQ_base_SURVEY2(2)



Parameter value