

Plots created using the 'r4ss' package in R
Stock Synthesis version: 3.30.19.0
StartTime: Mon Jul 11 15:30:31 2022
Data_File: data.ss
Control_File: control.ss

Length (cm, beginning of the year)

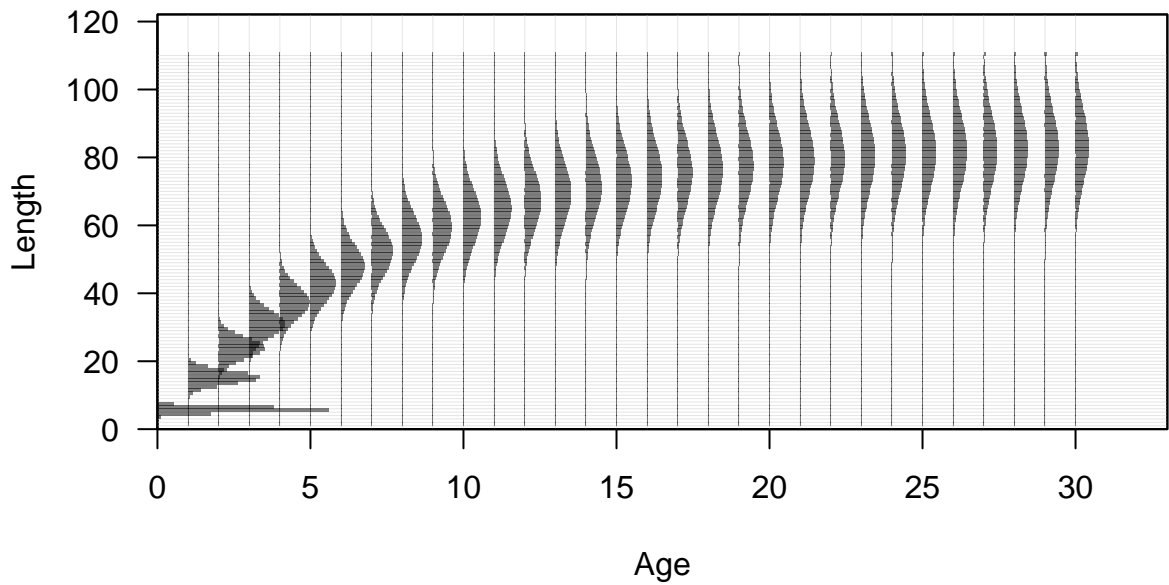


Age (yr)

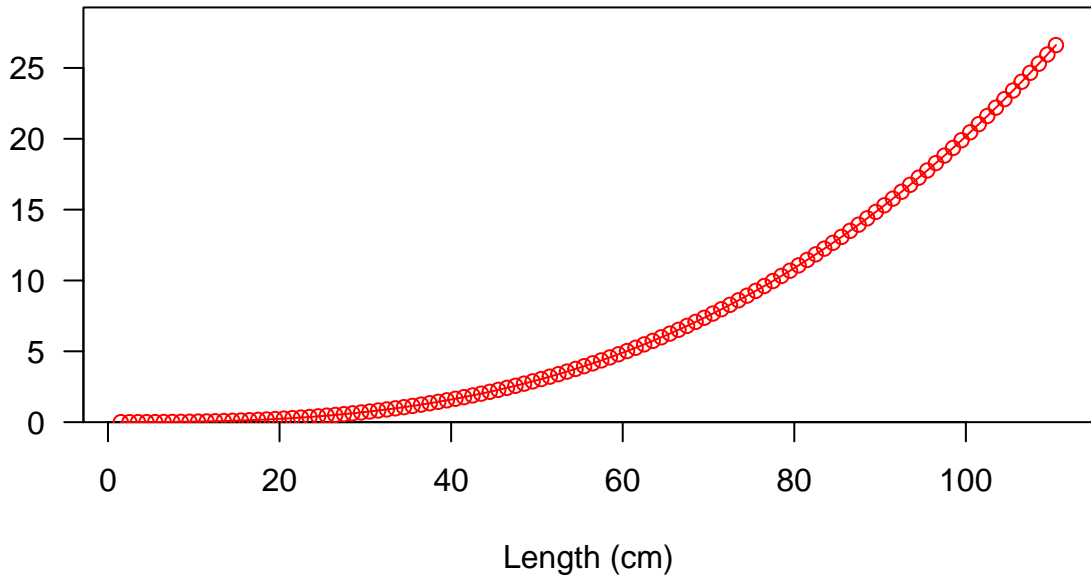






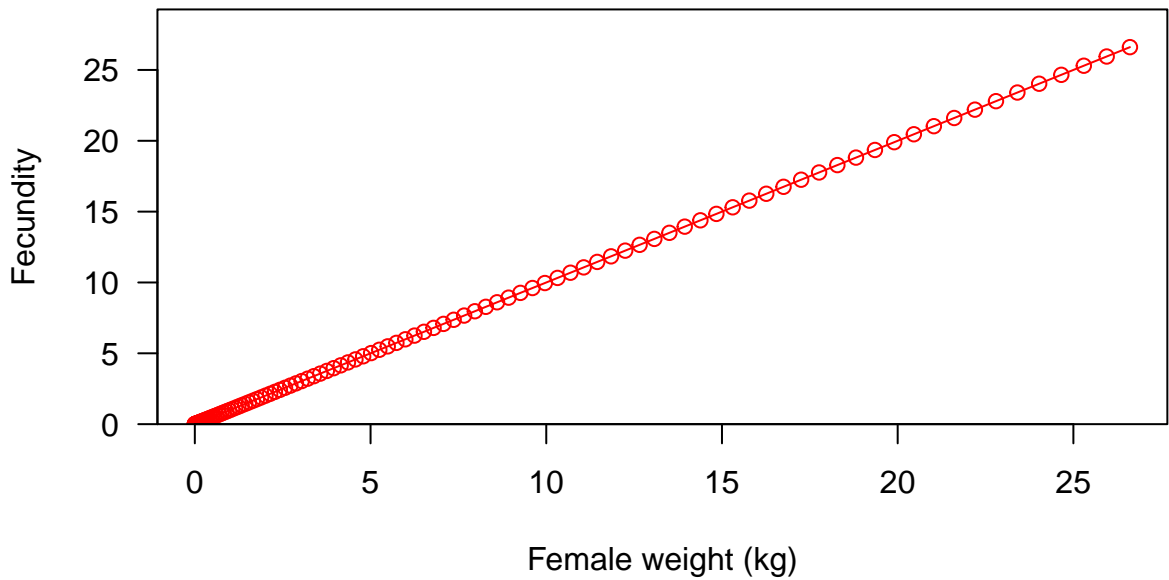


Mean weight (kg) in last year

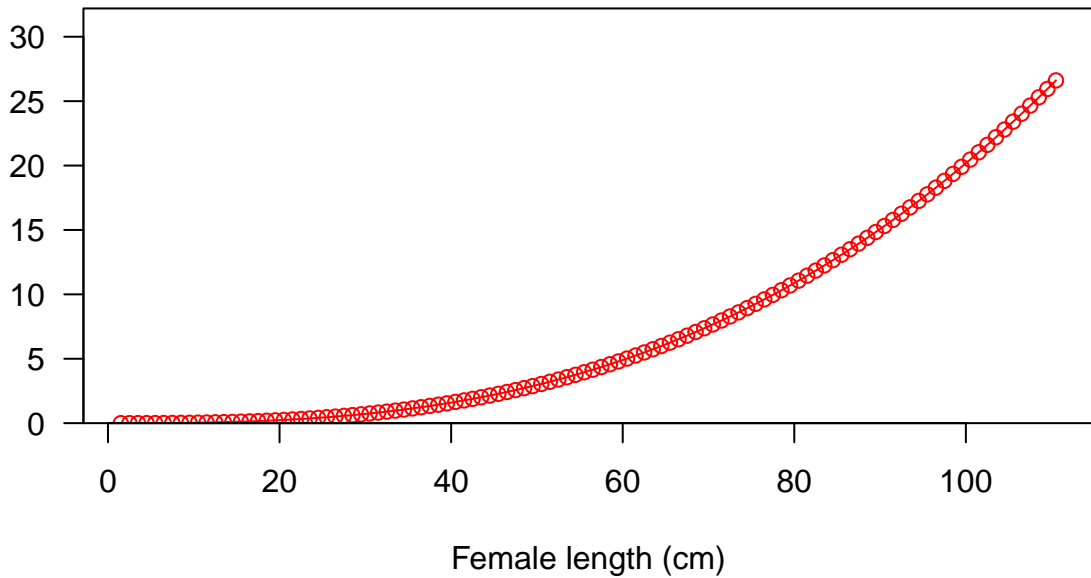




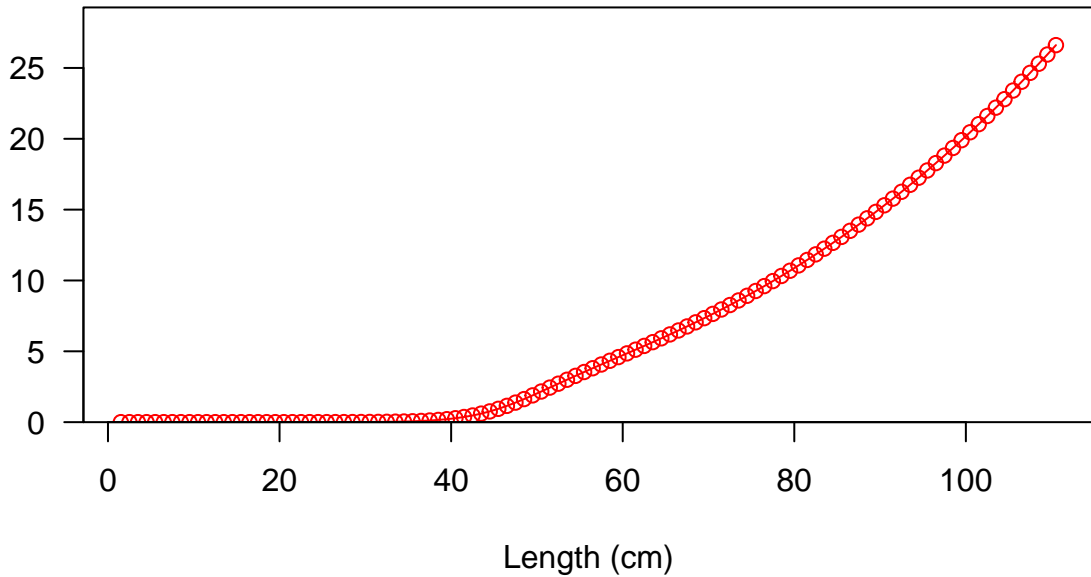




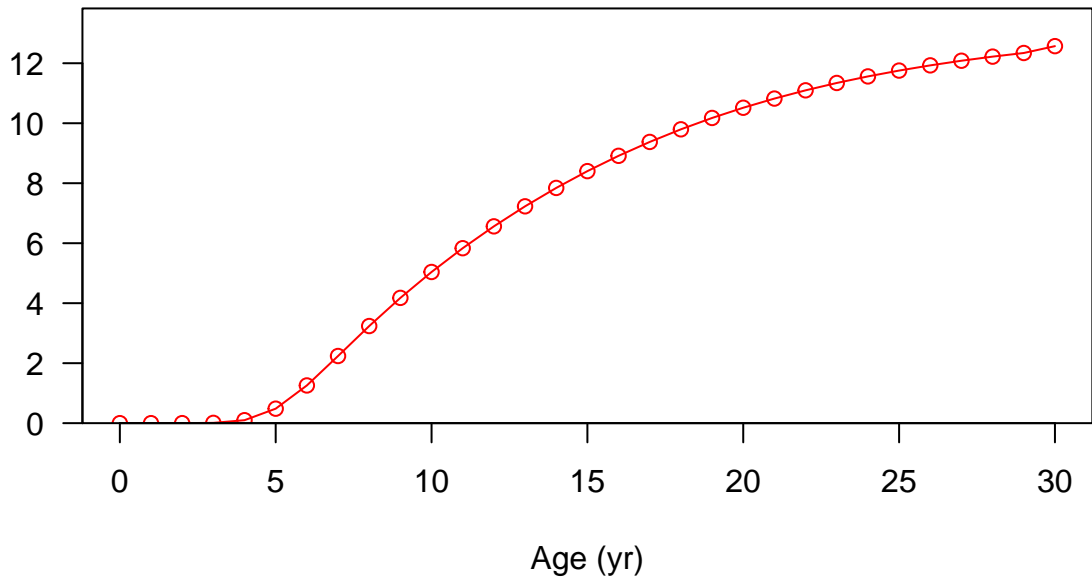
Fecundity



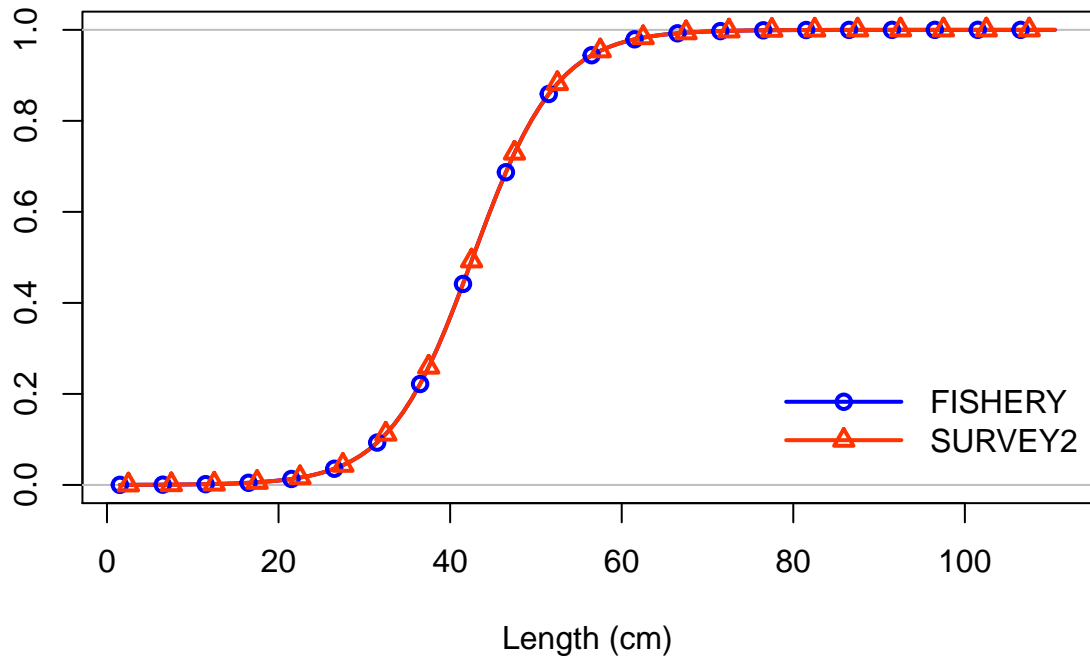
Spawning output



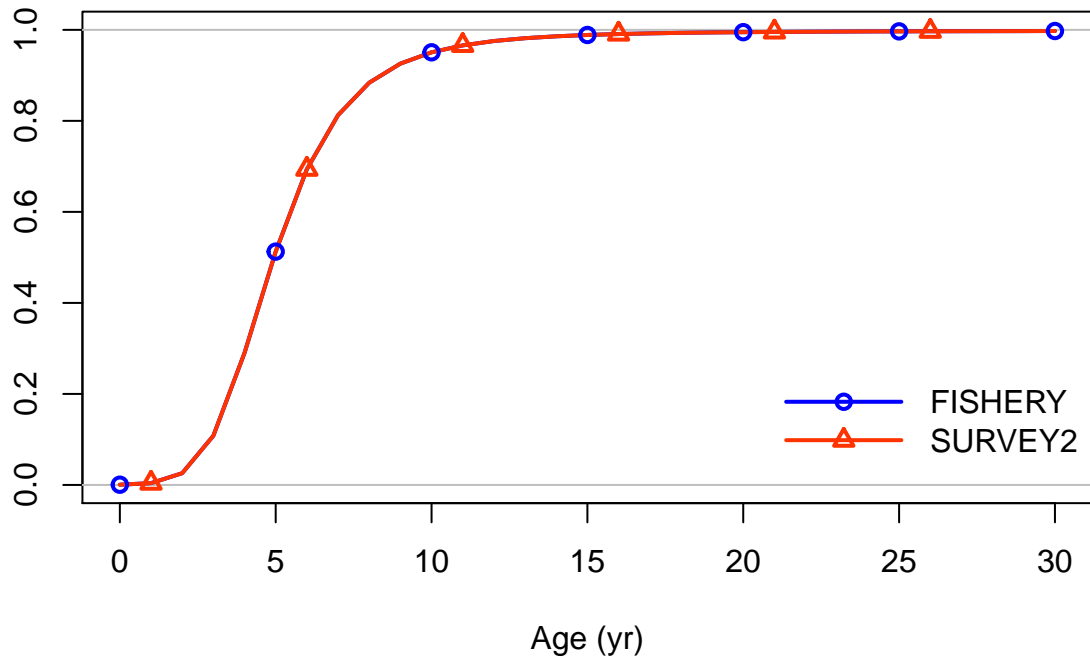
Spawning output



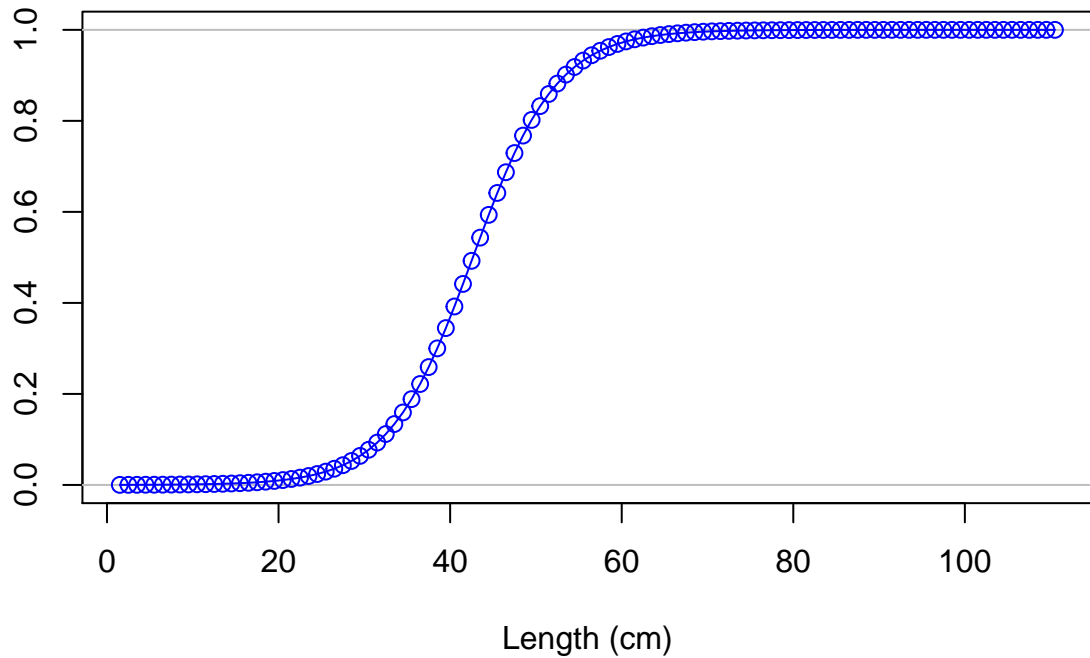
Selectivity



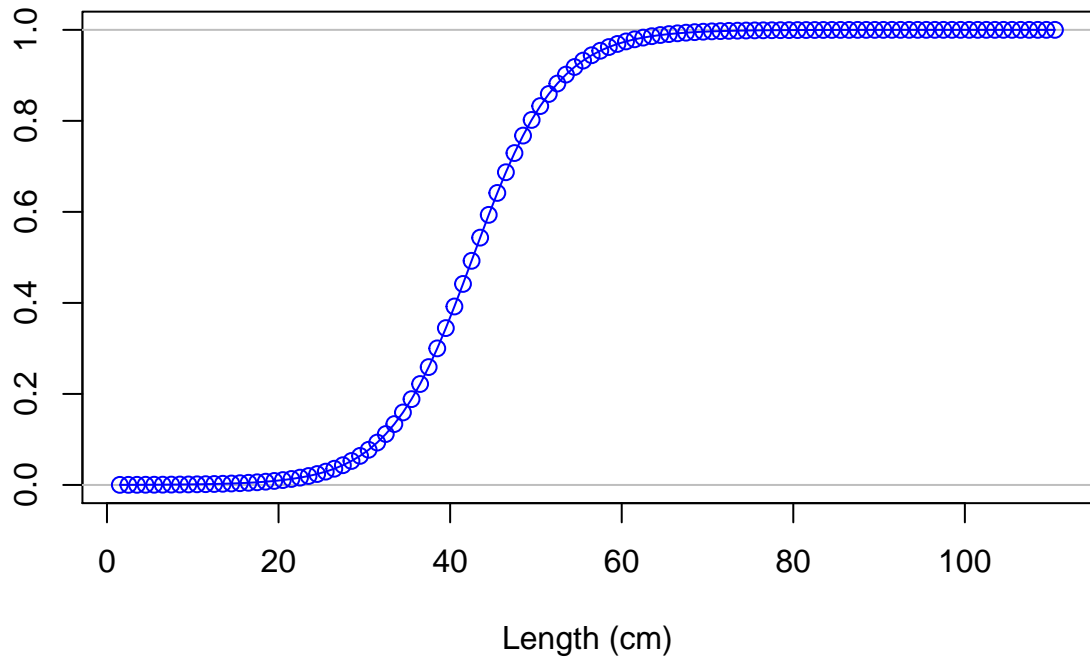
Selectivity

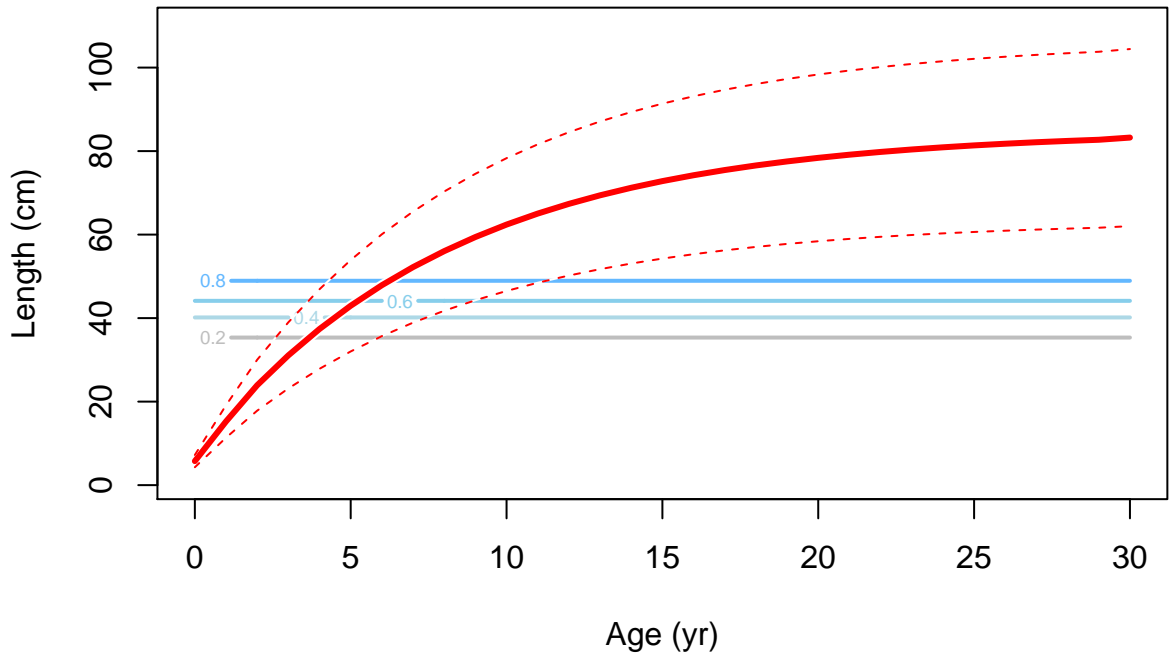


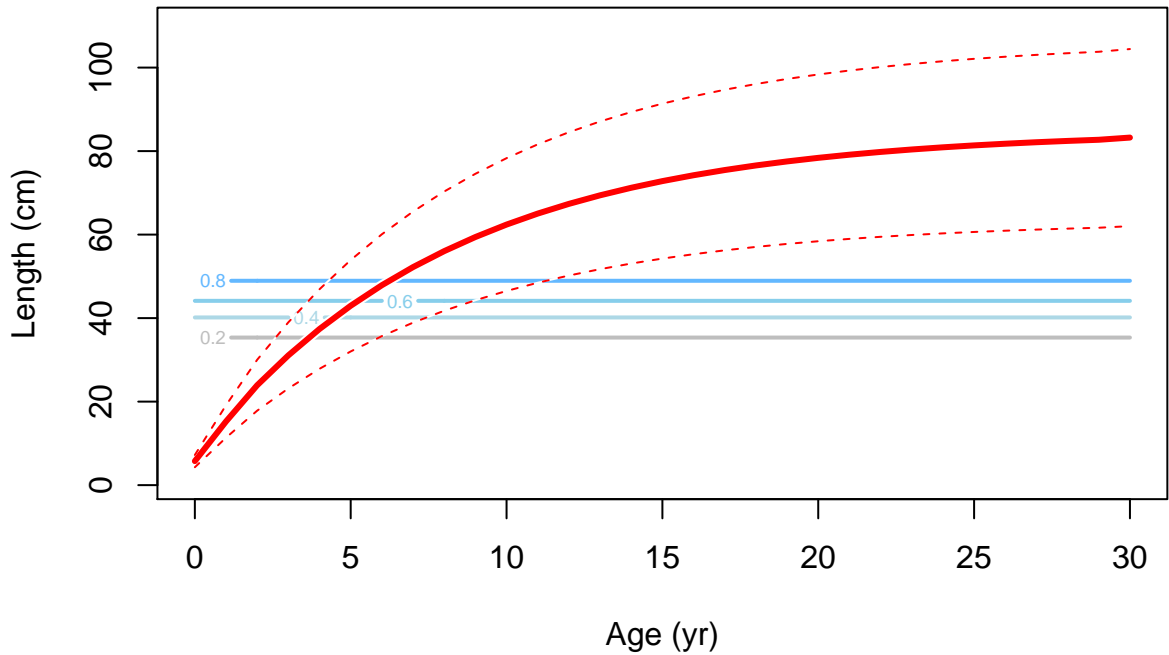
Selectivity



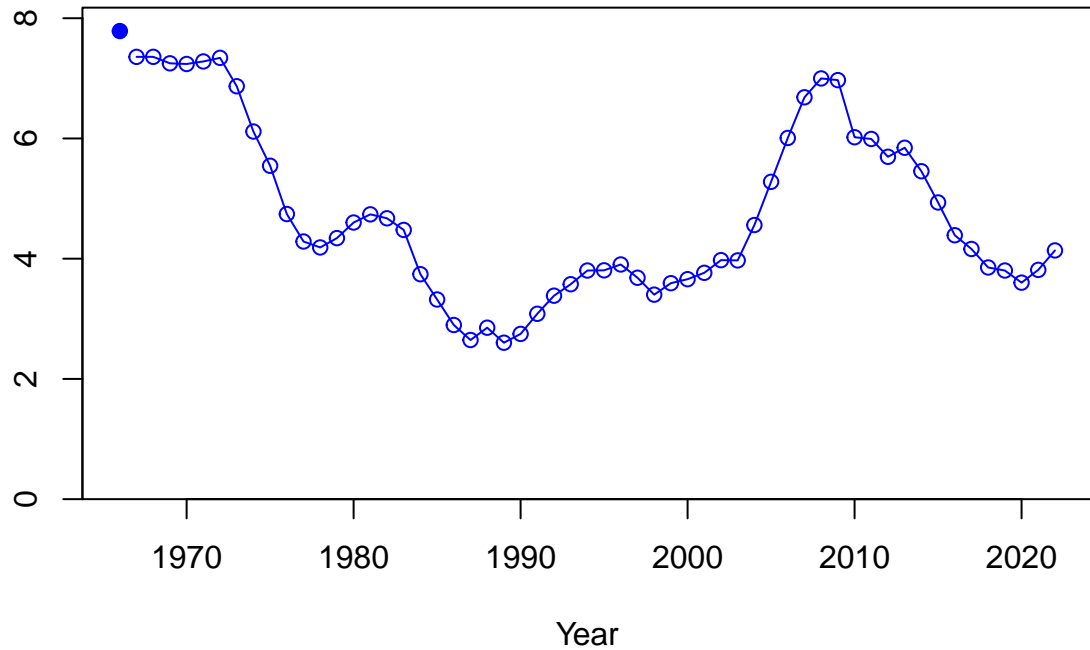
Selectivity

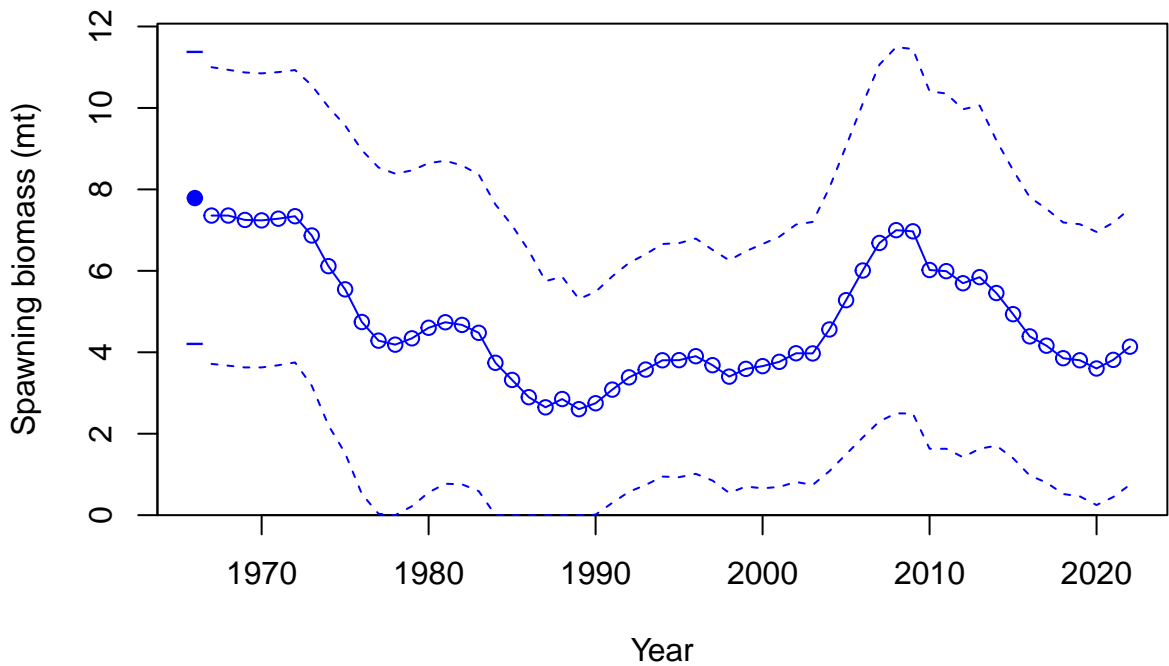




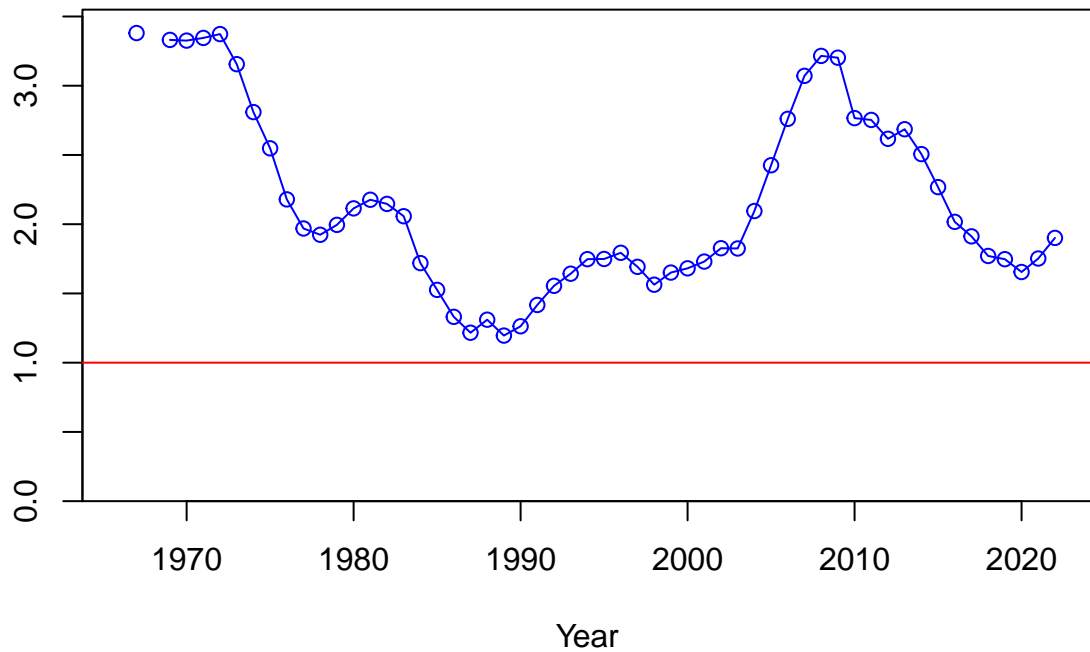


Spawning biomass (mt)

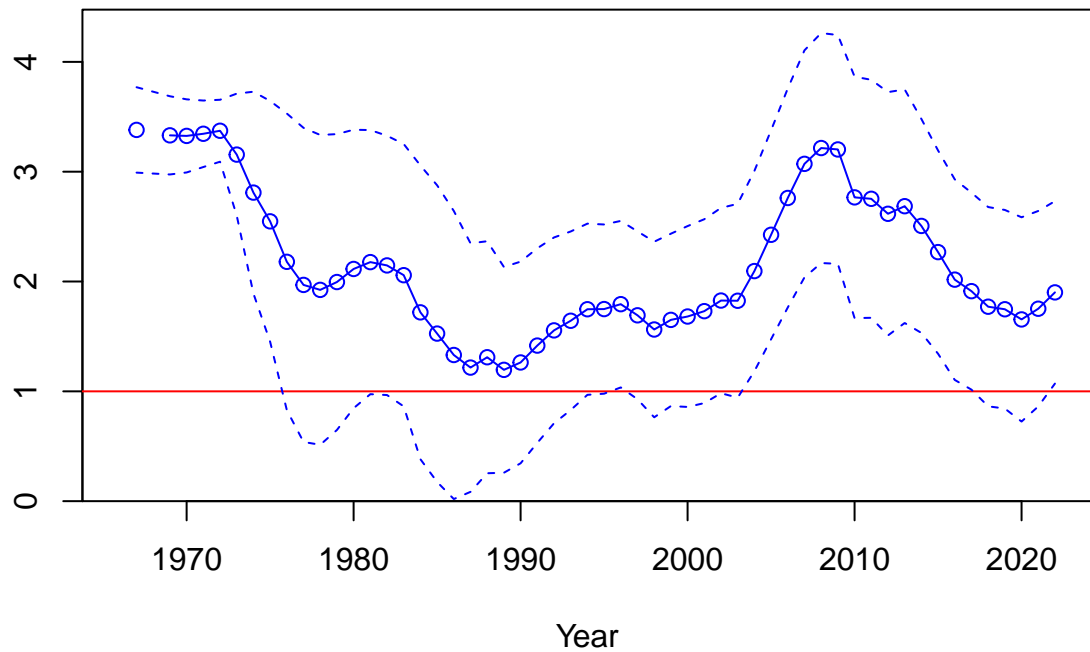


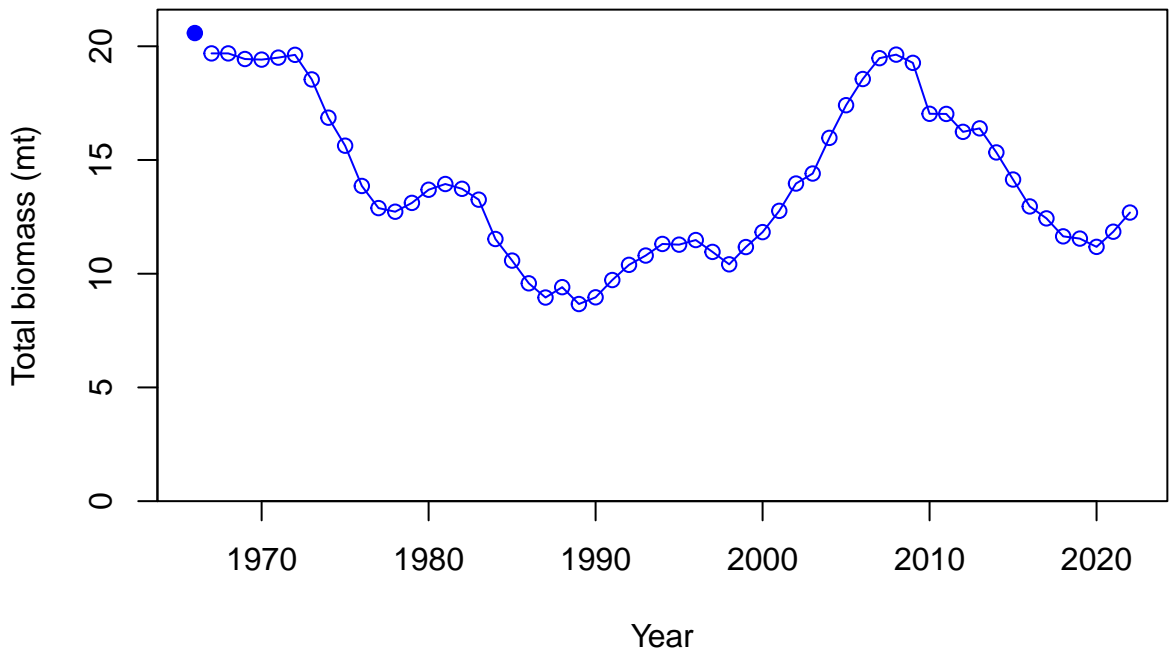


Relative spawning biomass: B/B_{MSY}

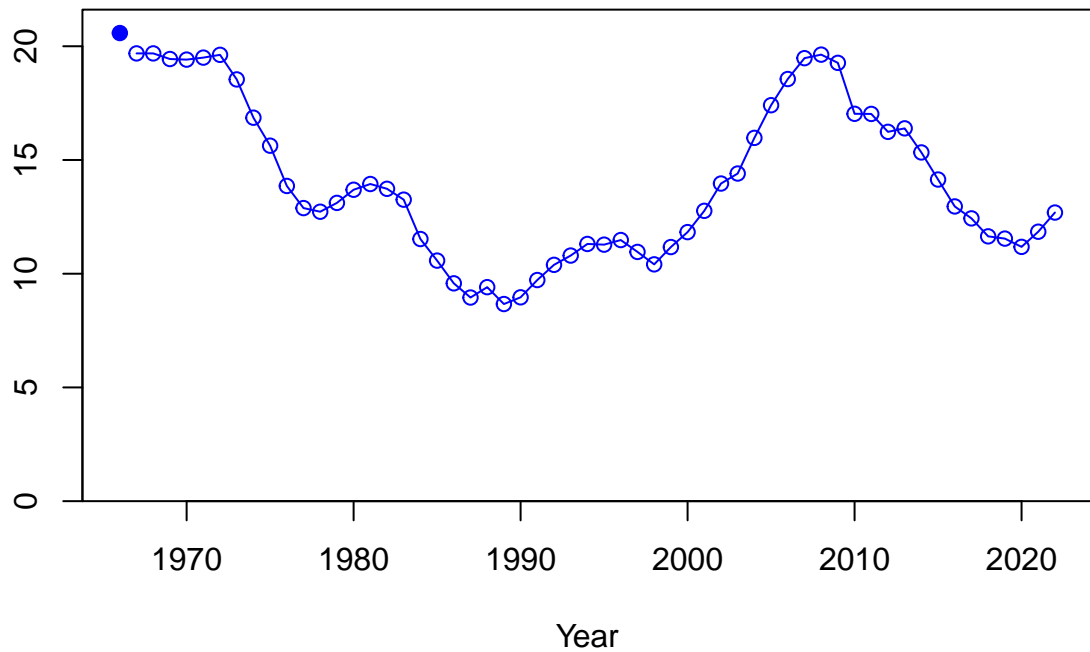


Relative spawning biomass: B/B_{MSY}

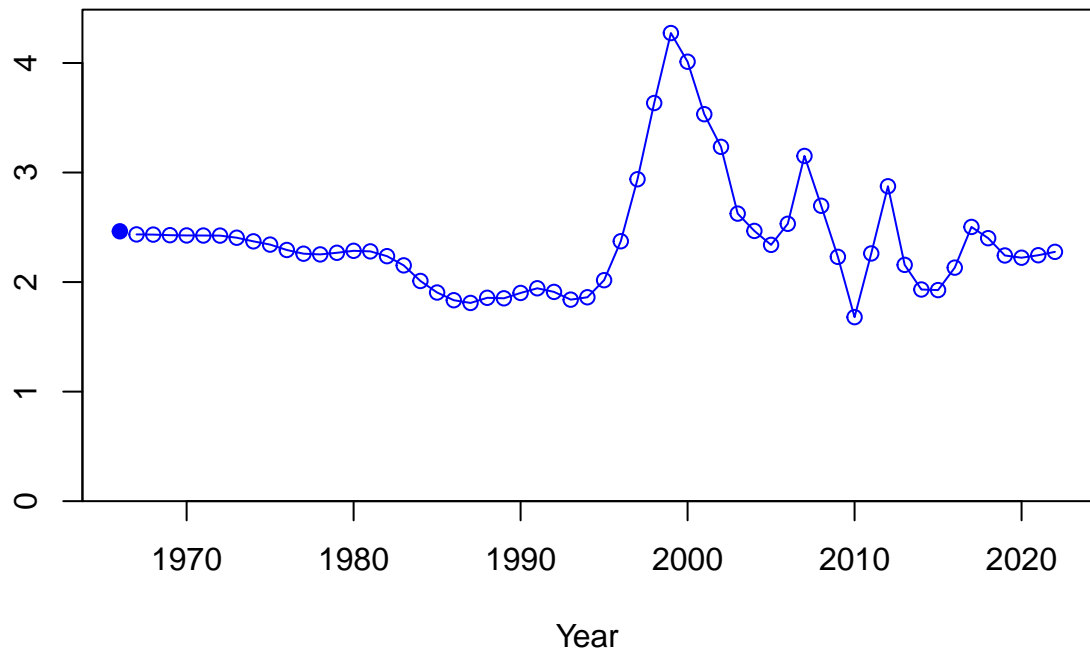




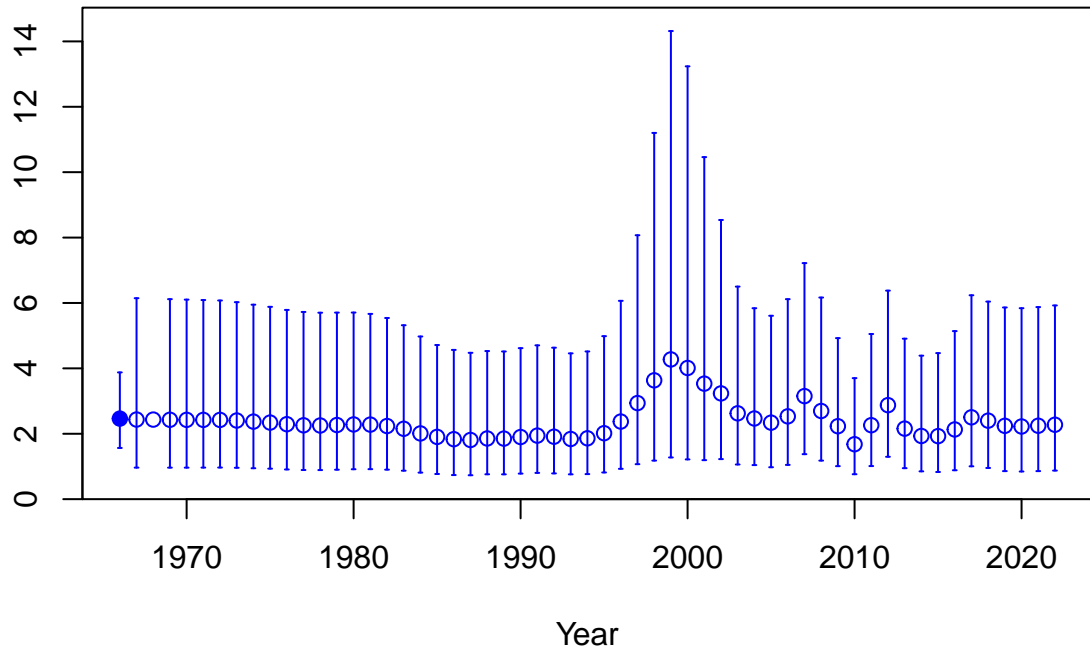
Summary biomass (mt)



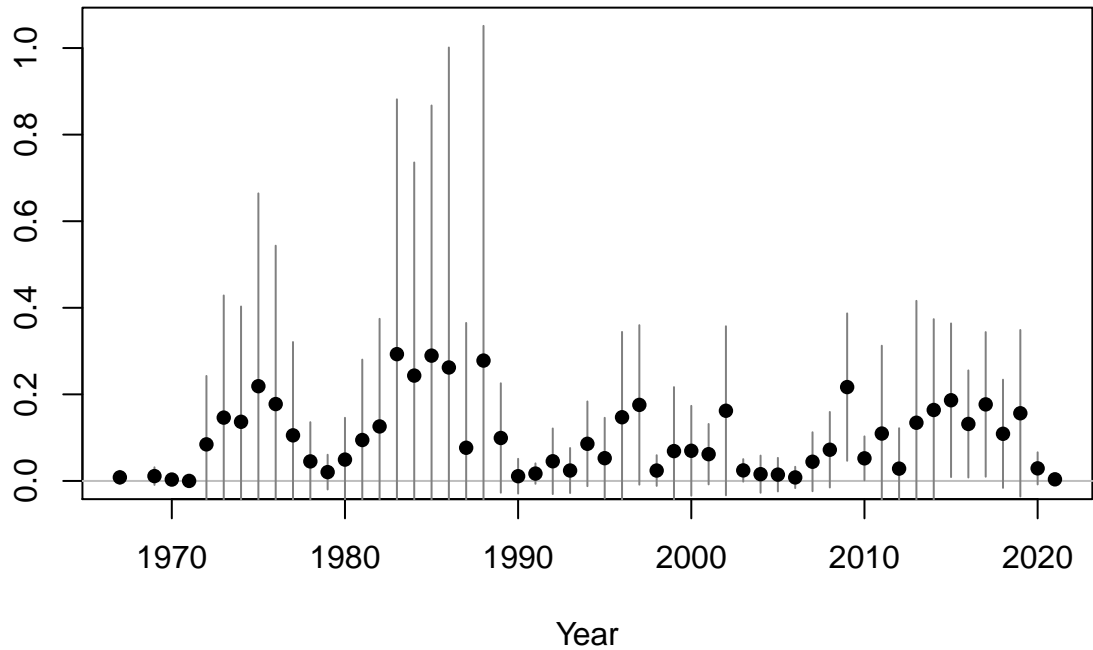
Age-0 recruits (1,000s)

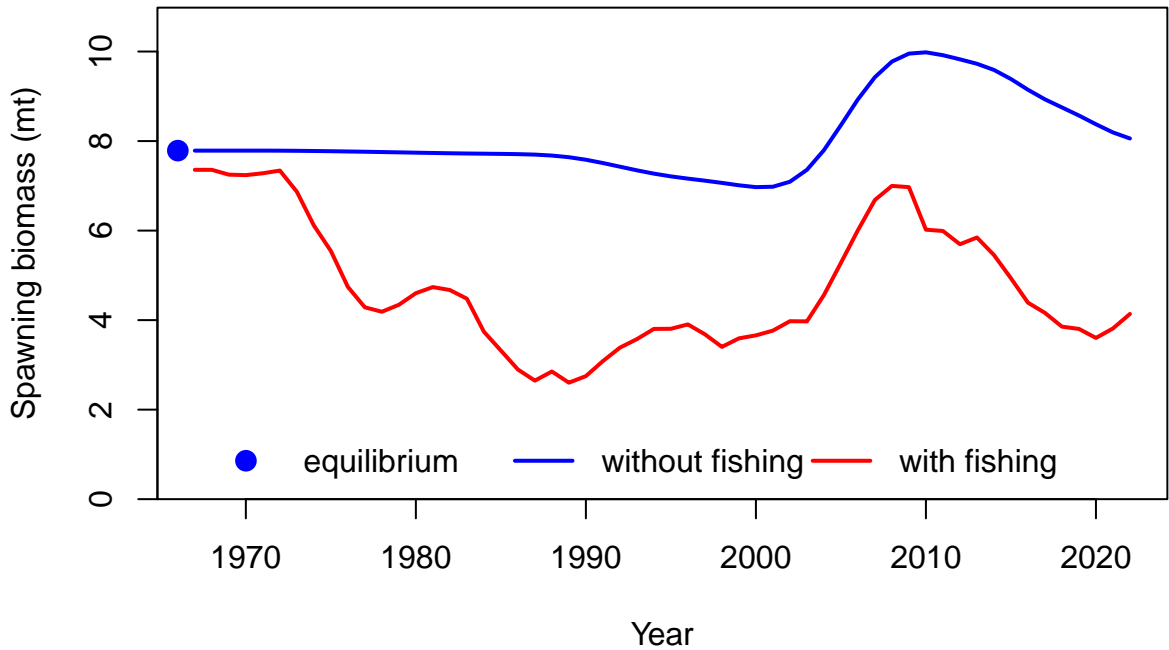


Age-0 recruits (1,000s)

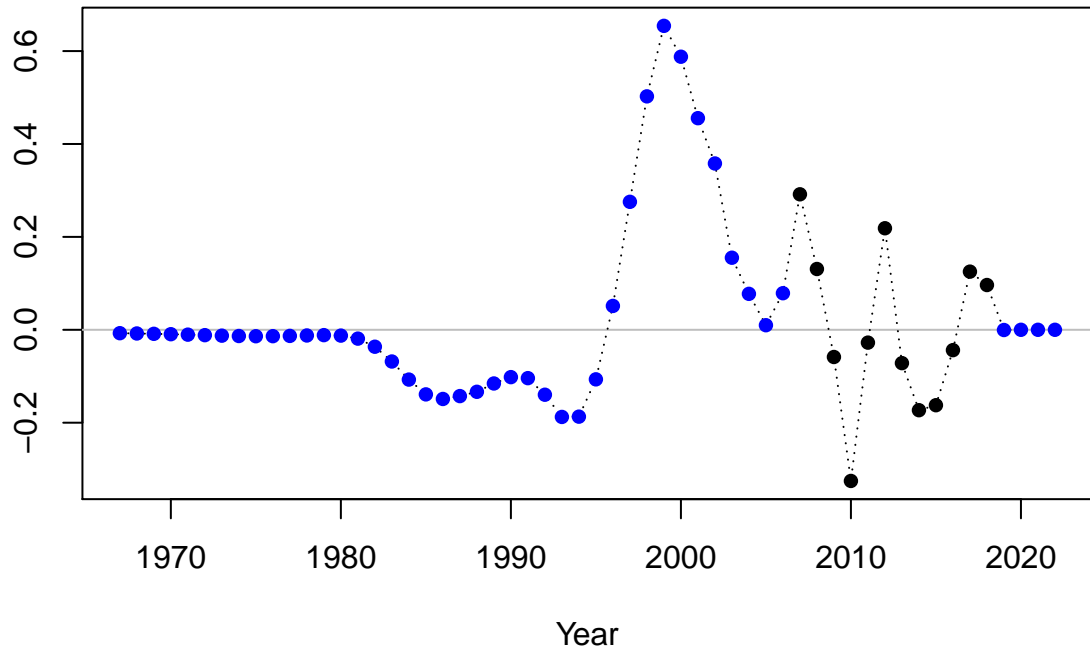


Summary Fishing Mortality

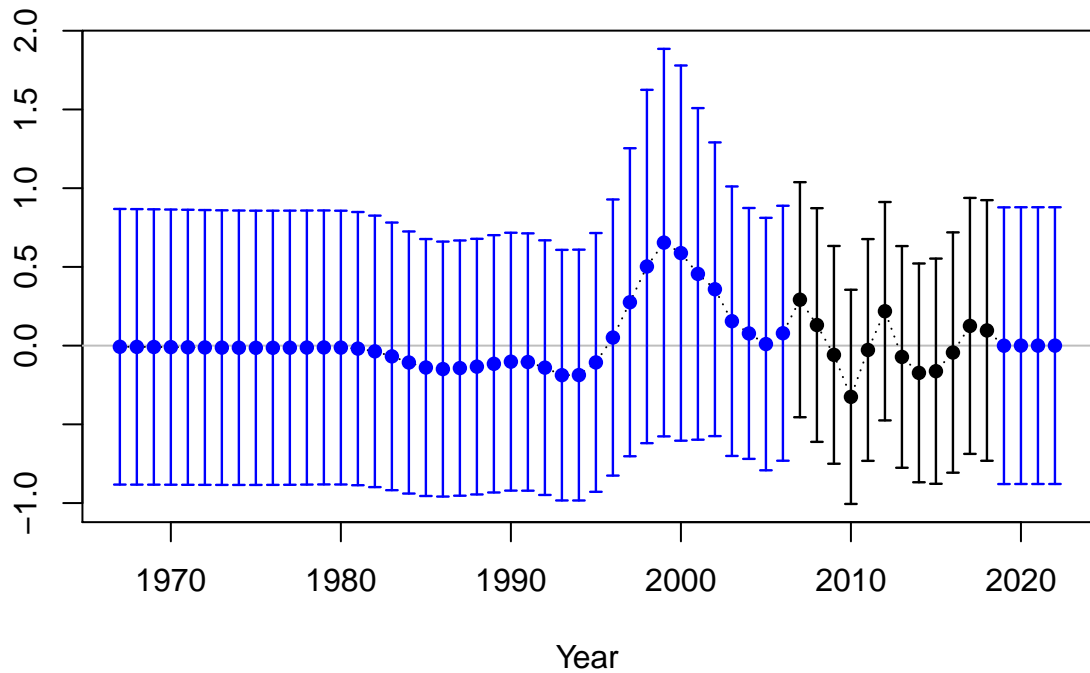




Log recruitment deviation

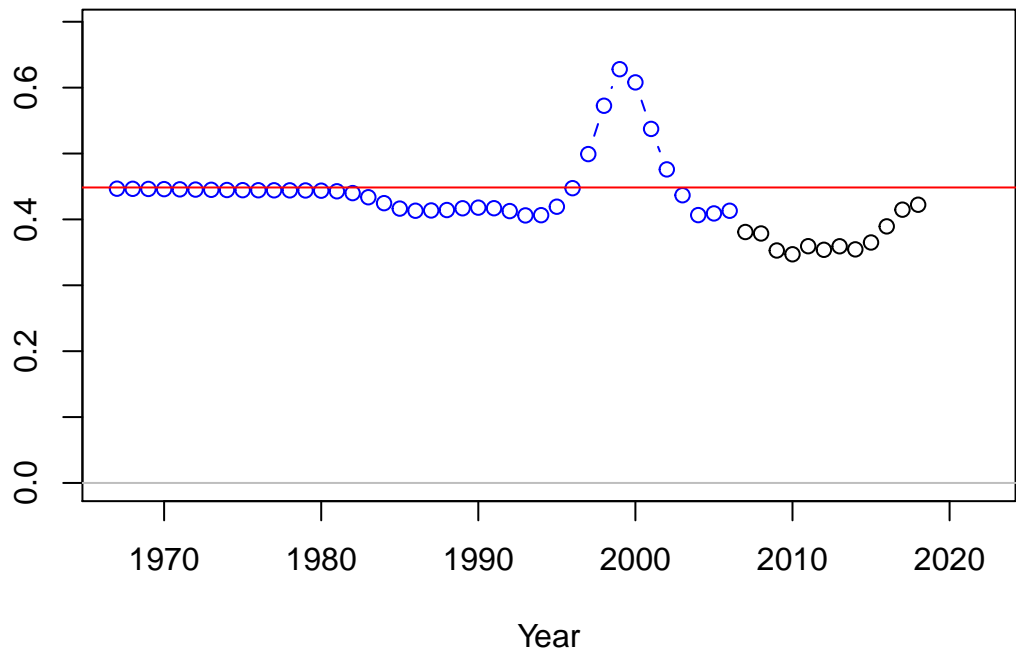


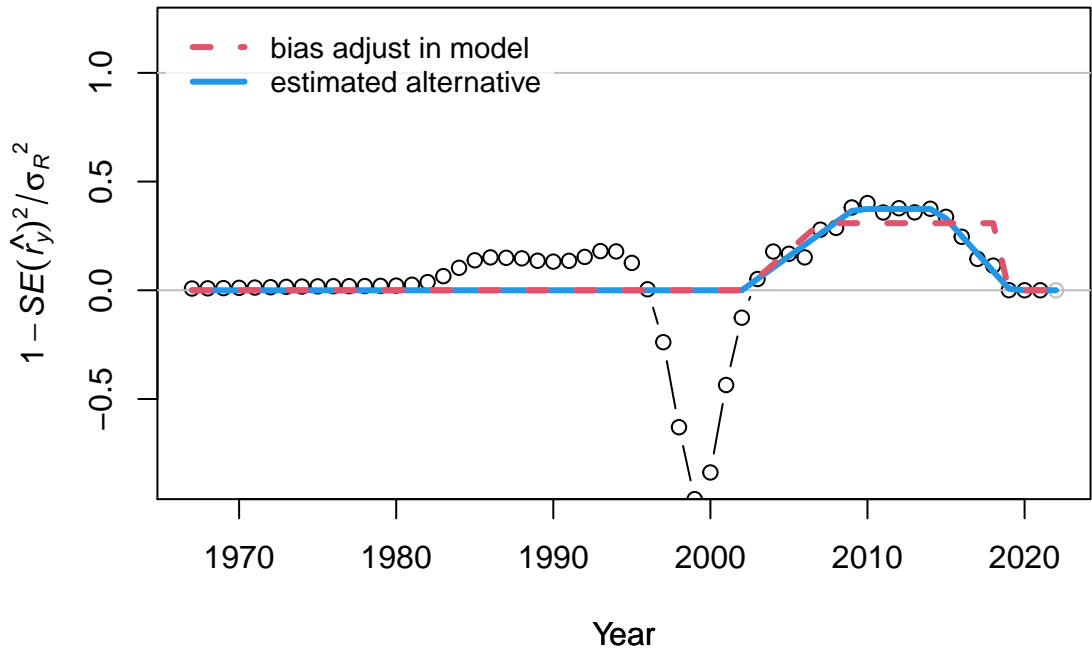
Log recruitment deviation



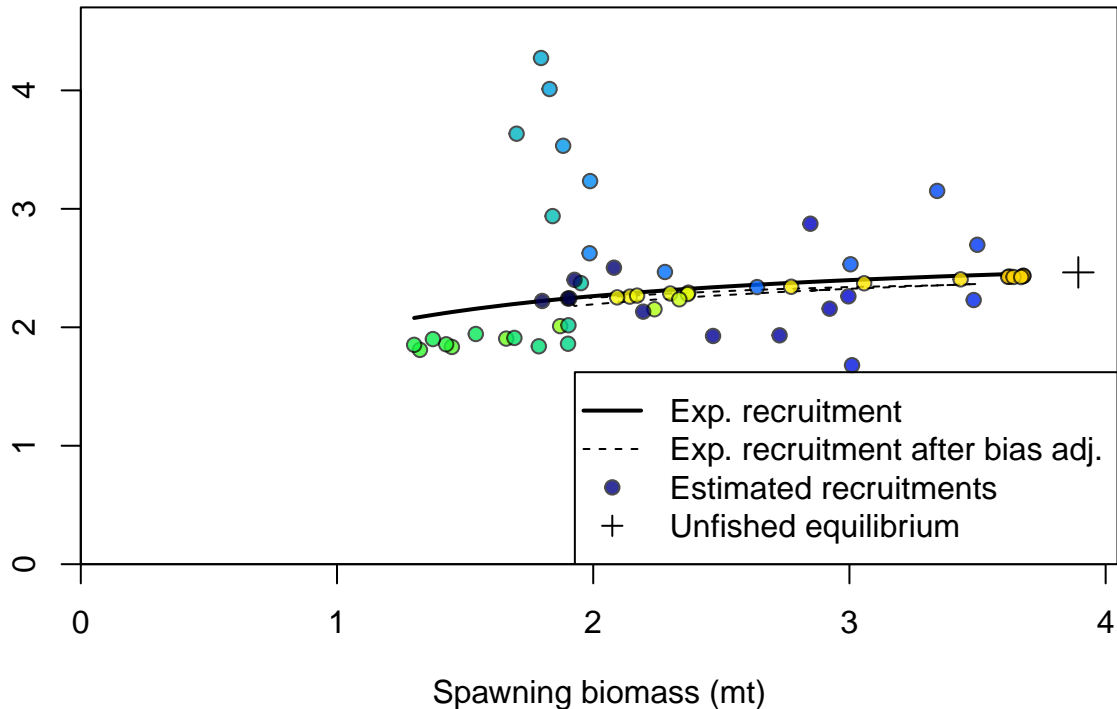
Recruitment deviation variance

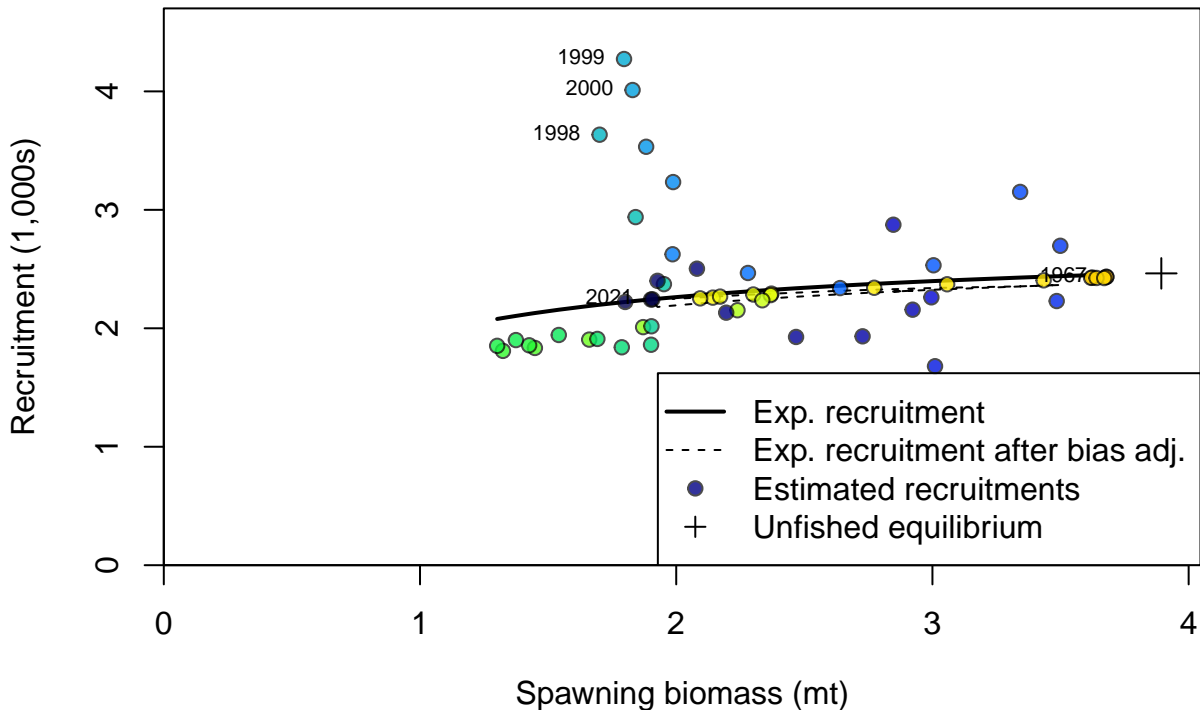
Asymptotic standard error estimate

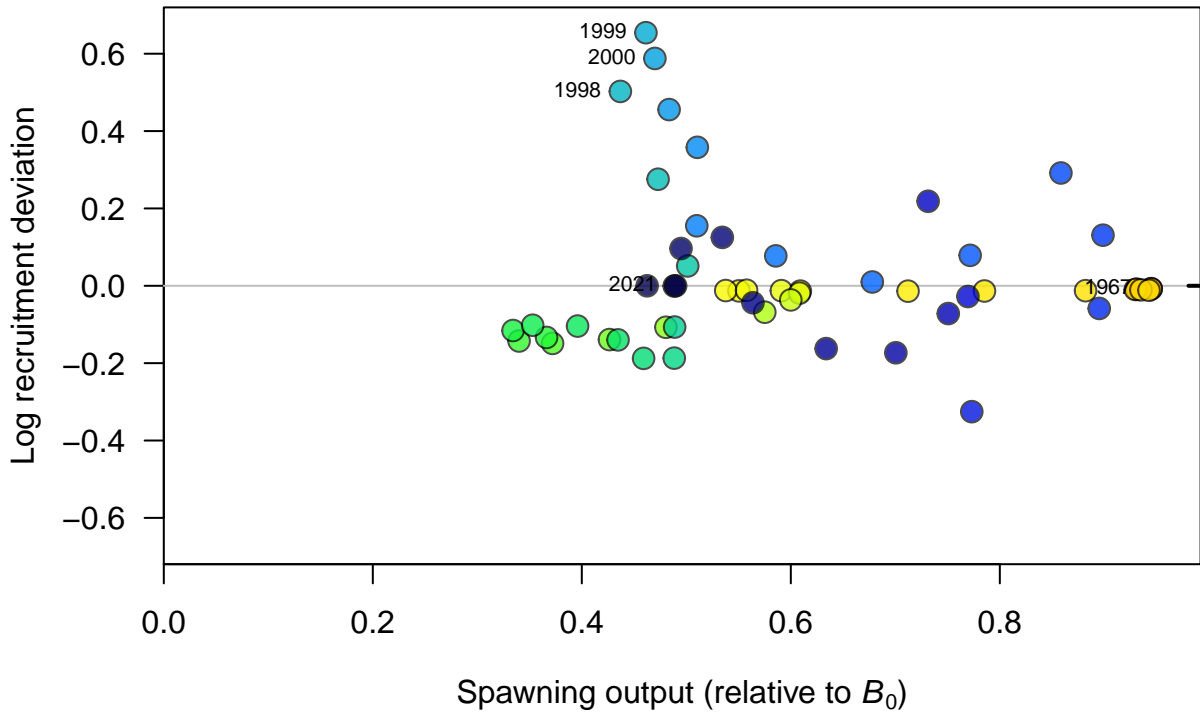


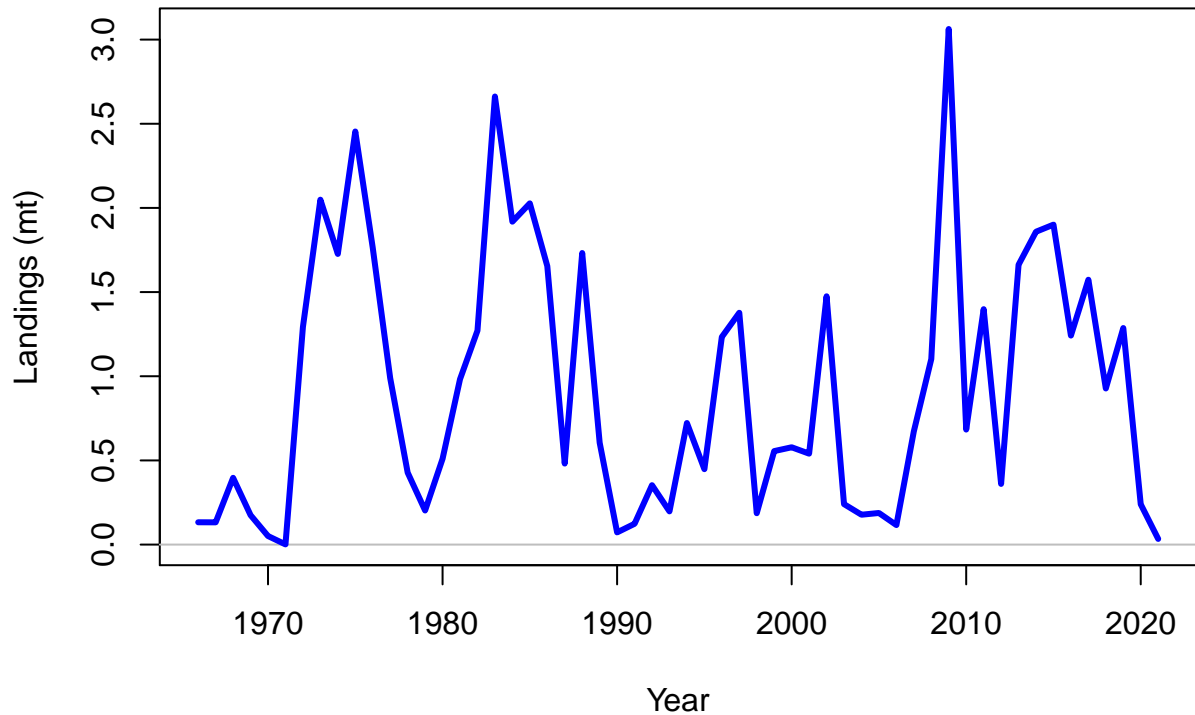


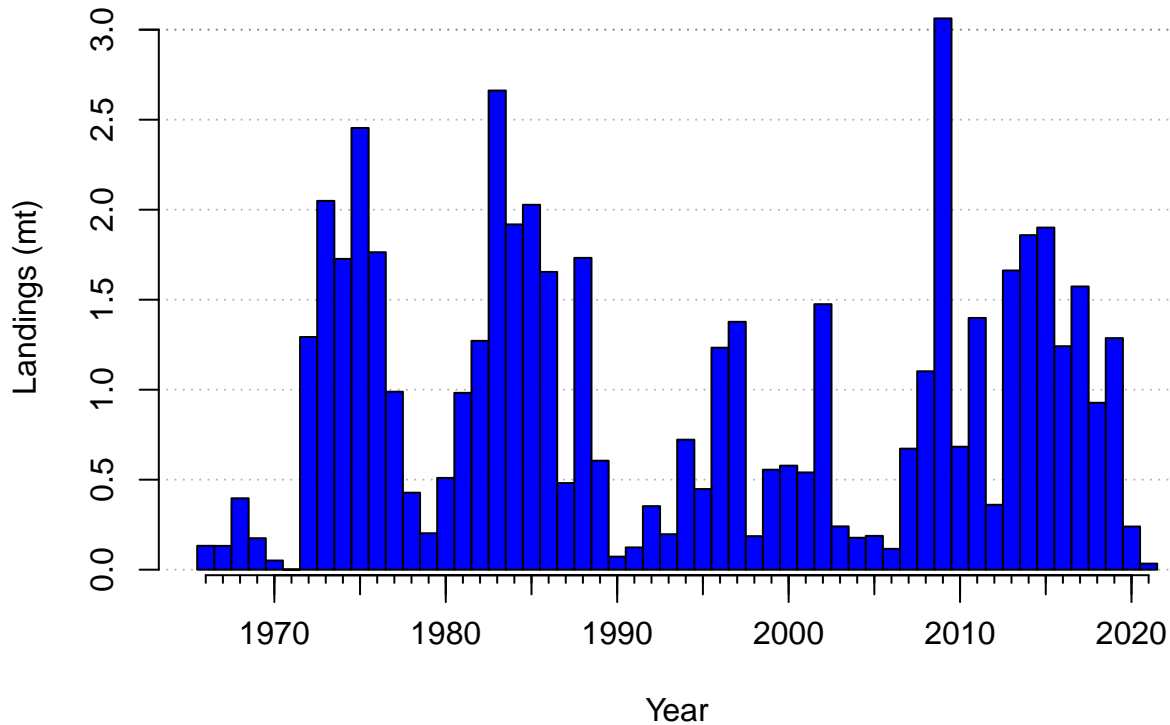
Recruitment (1,000s)

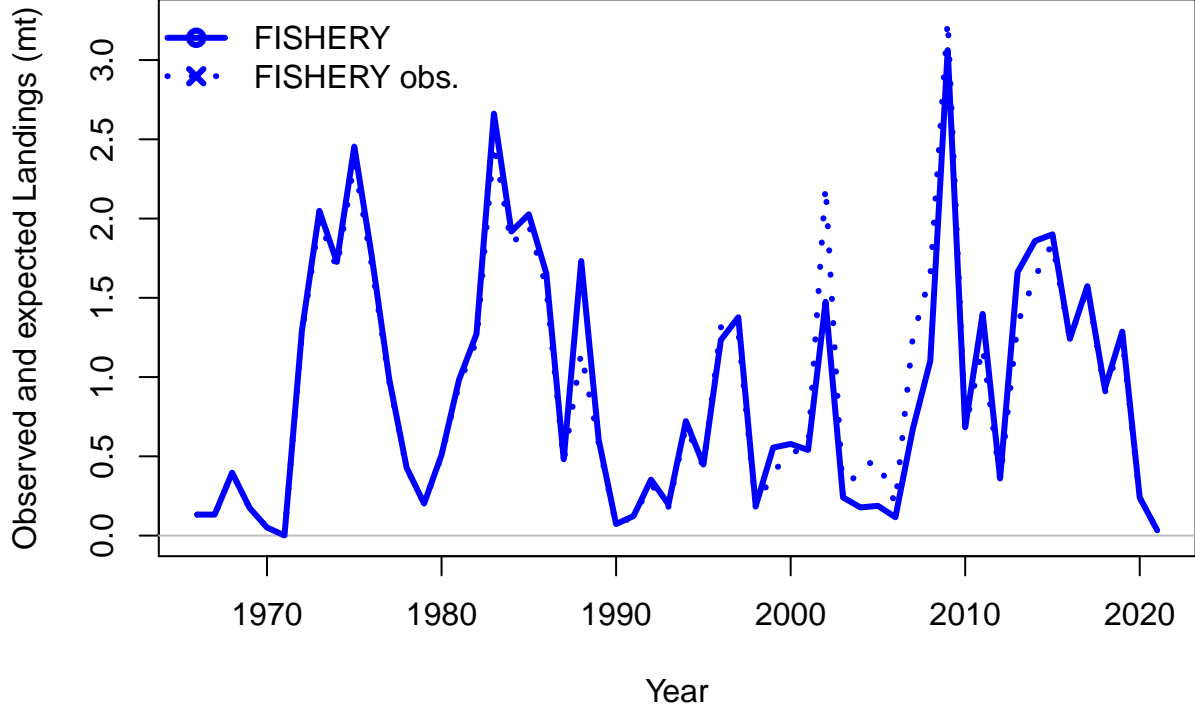


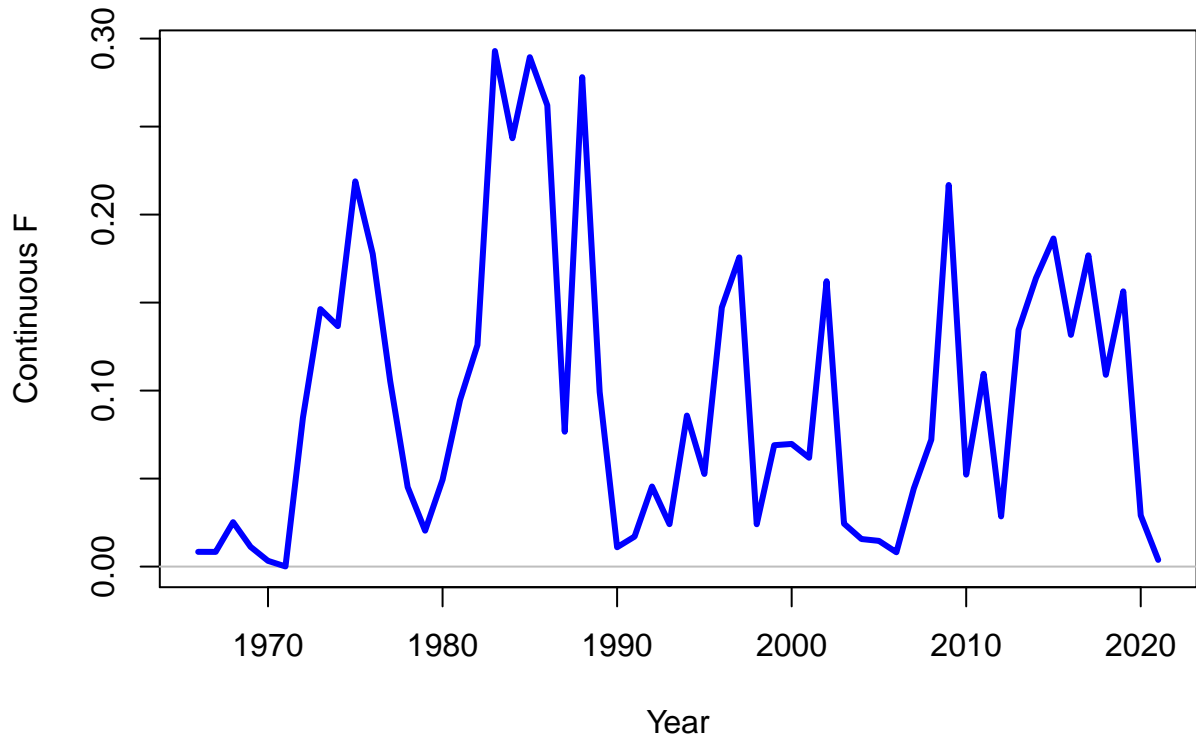




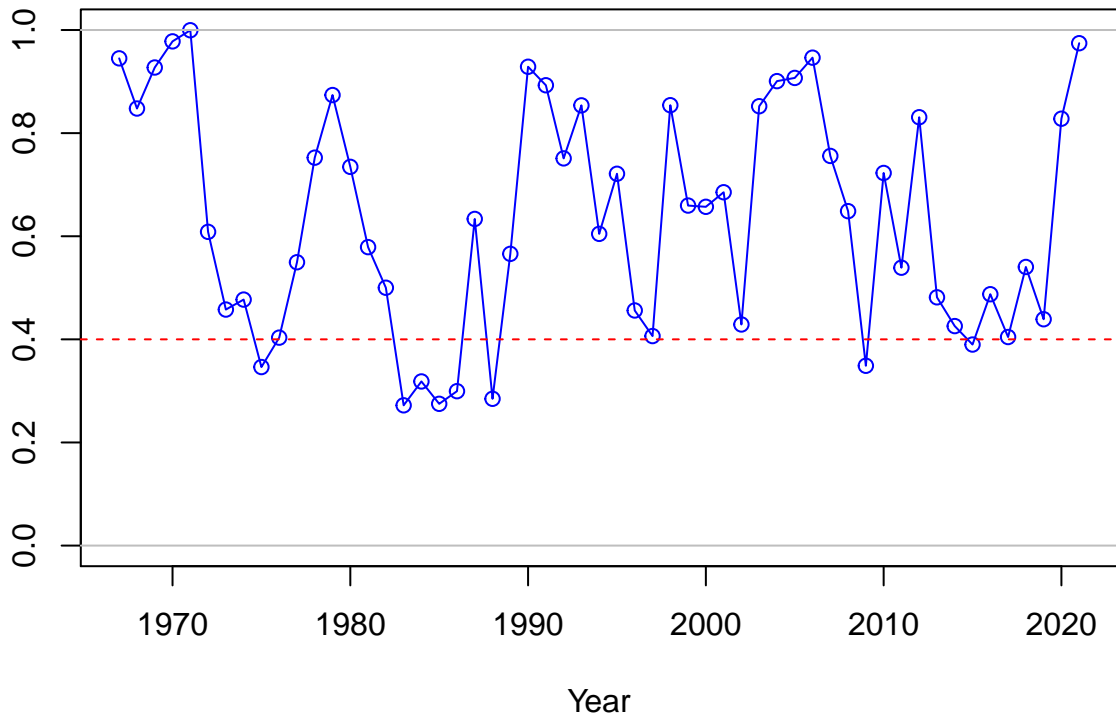




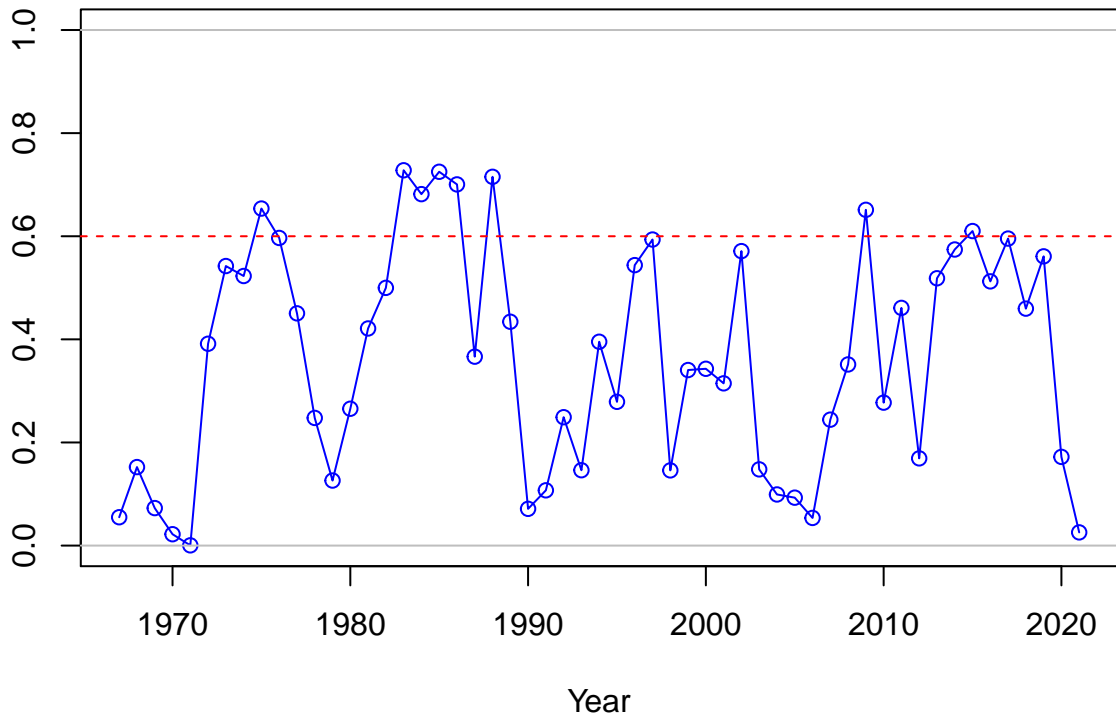




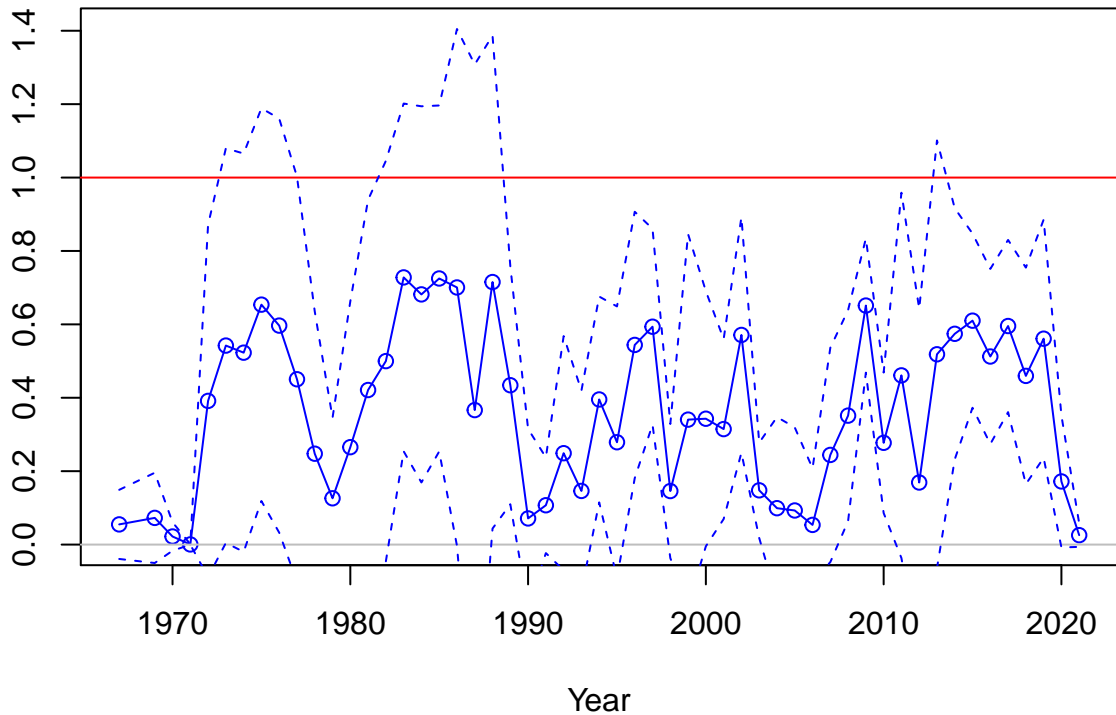
SPR



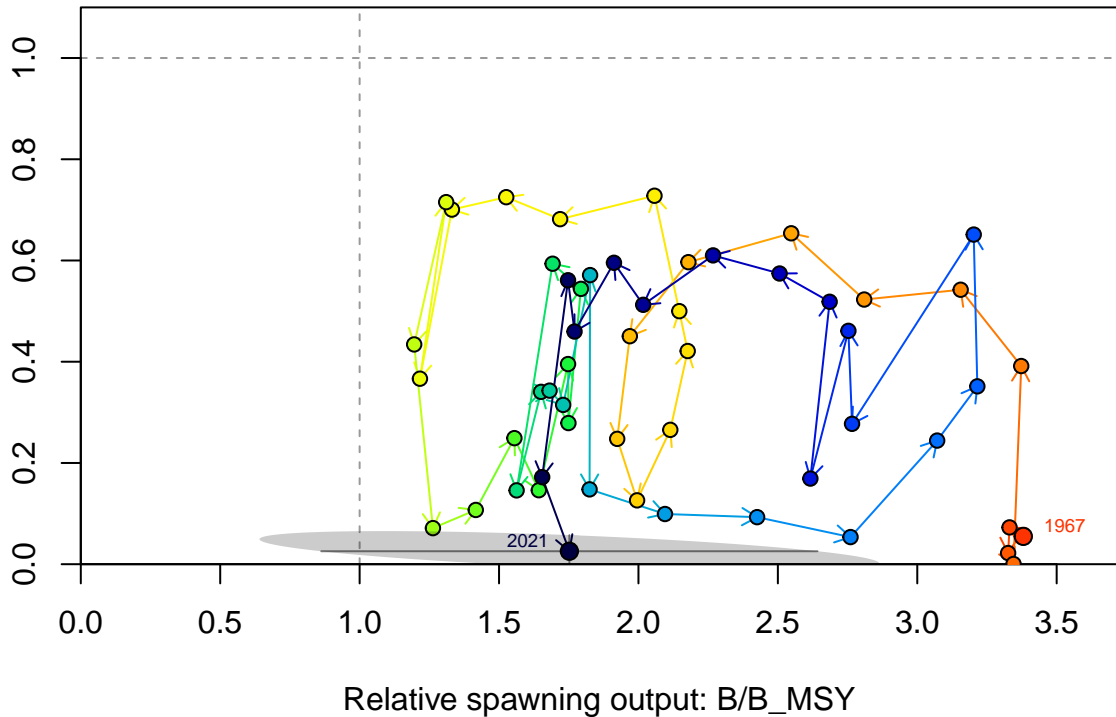
1-SPR



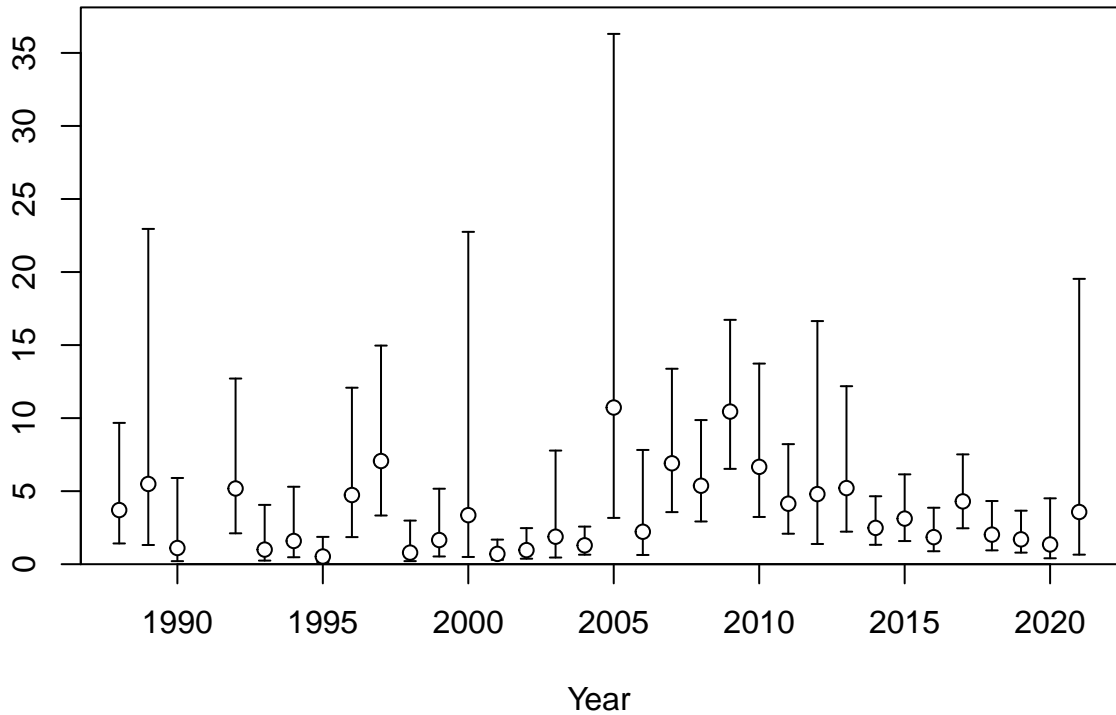
Fishing intensity: 1-SPR



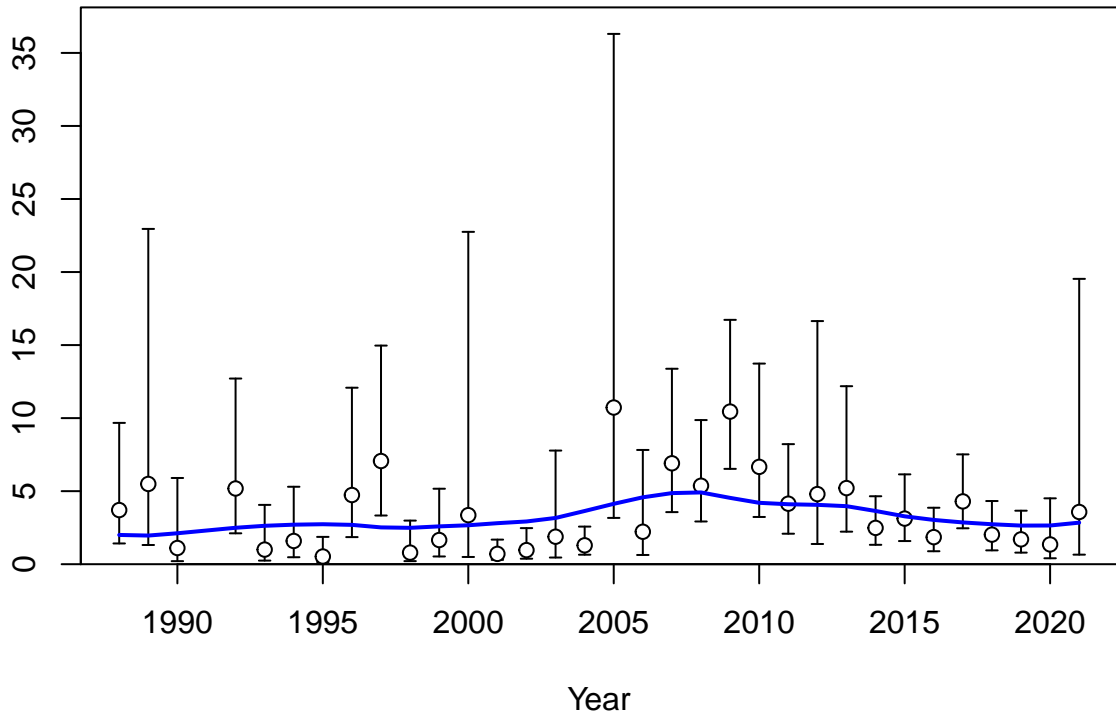
Fishing intensity: 1-SPR

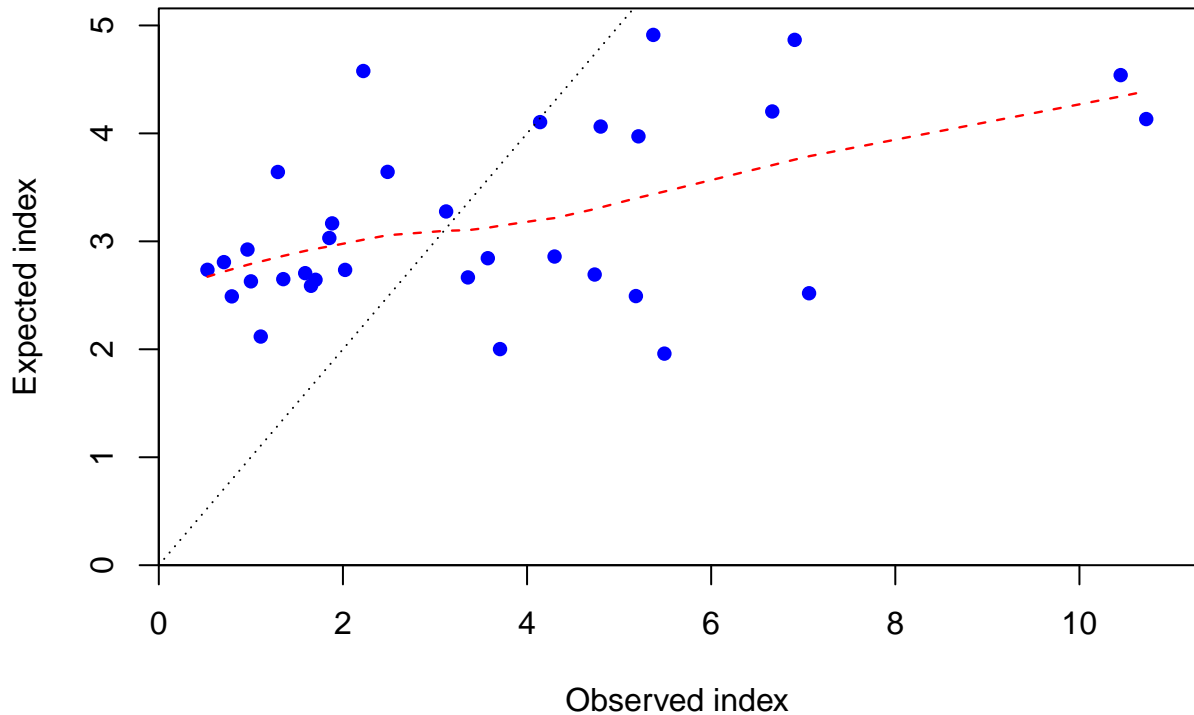


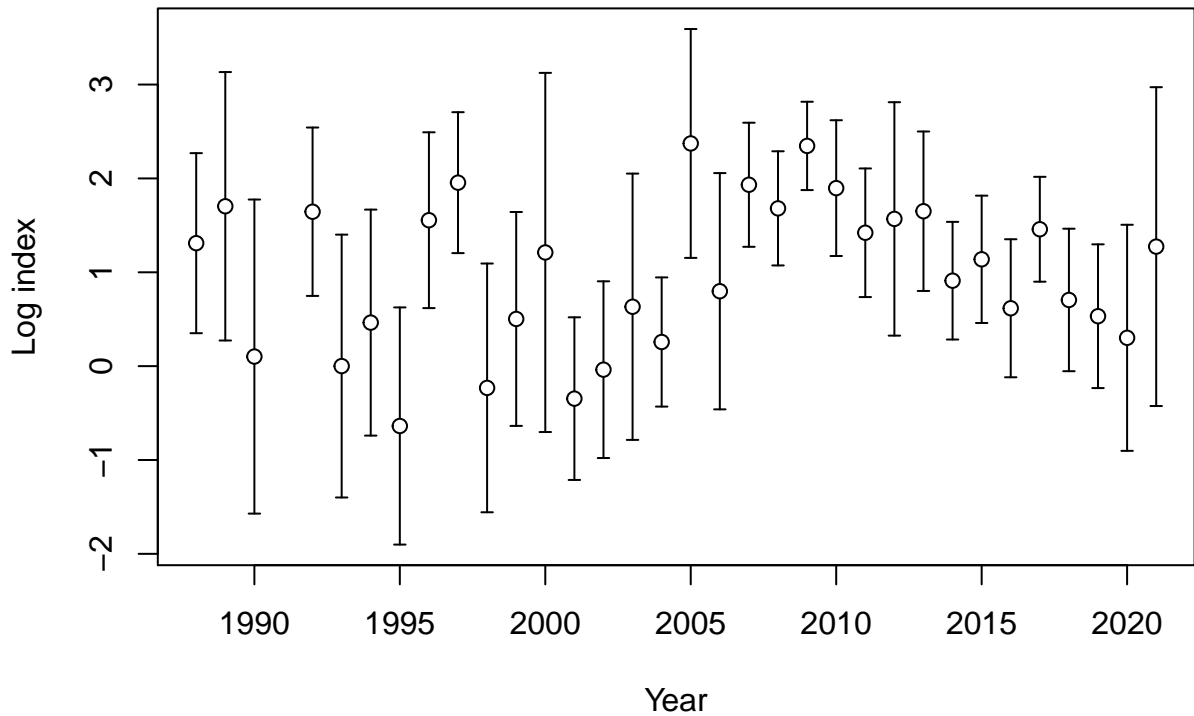
Index

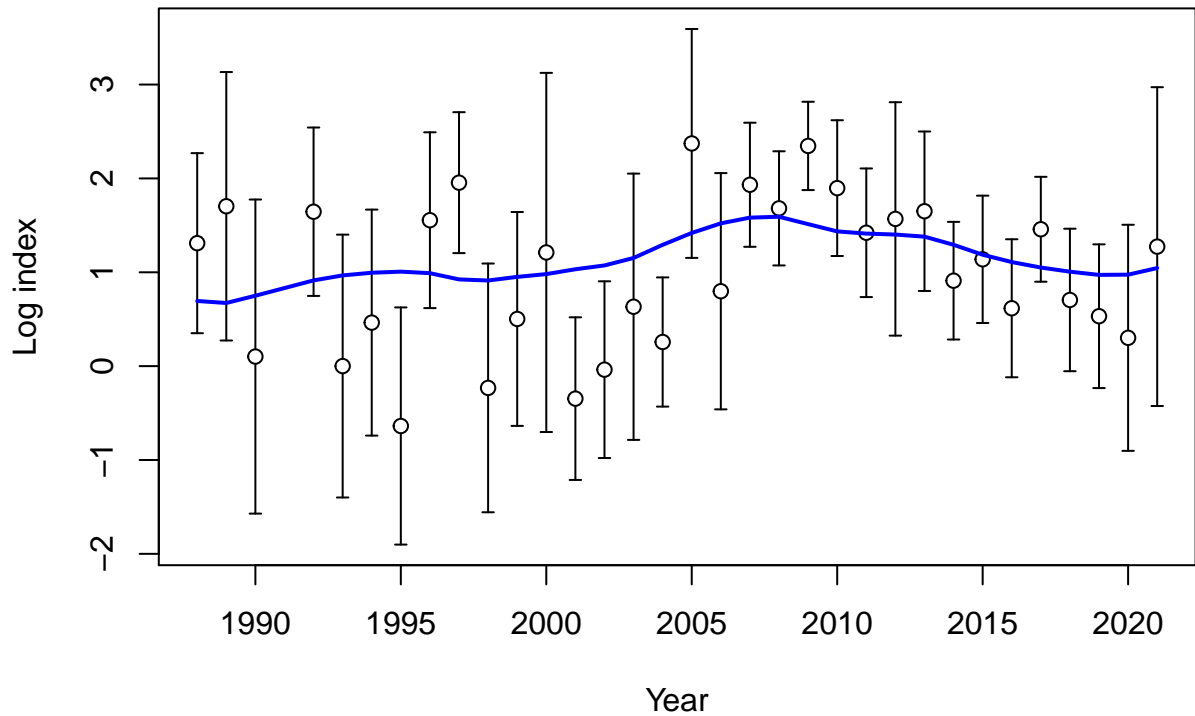


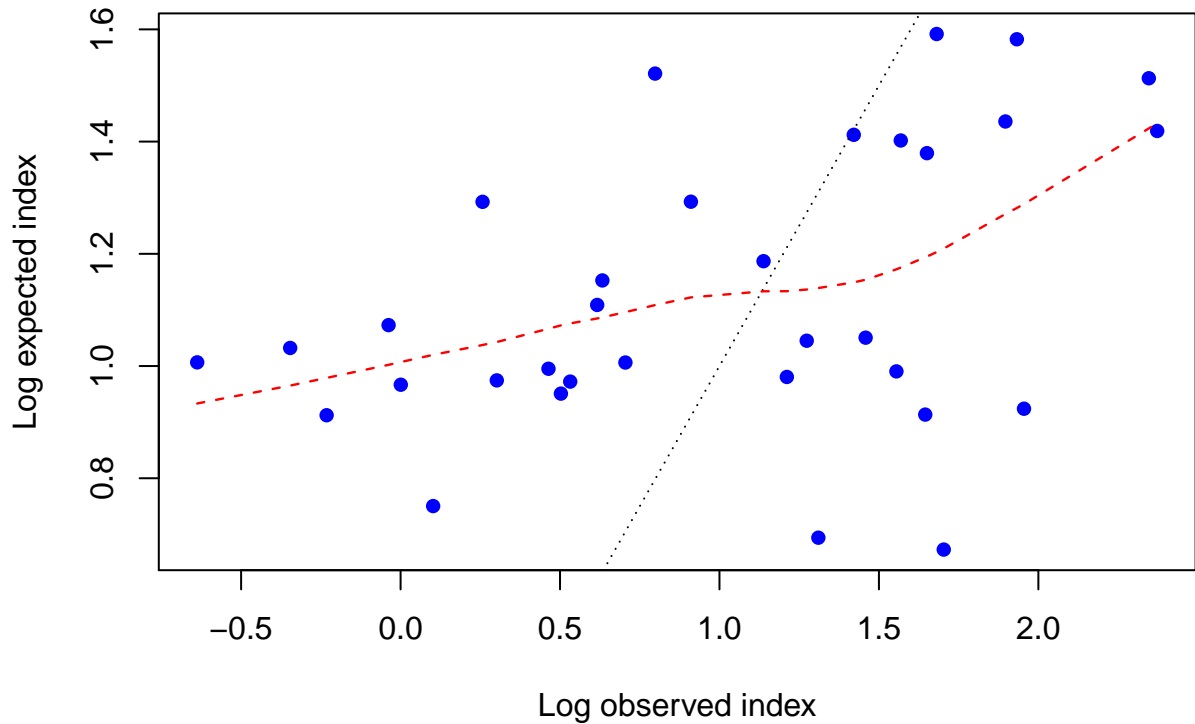
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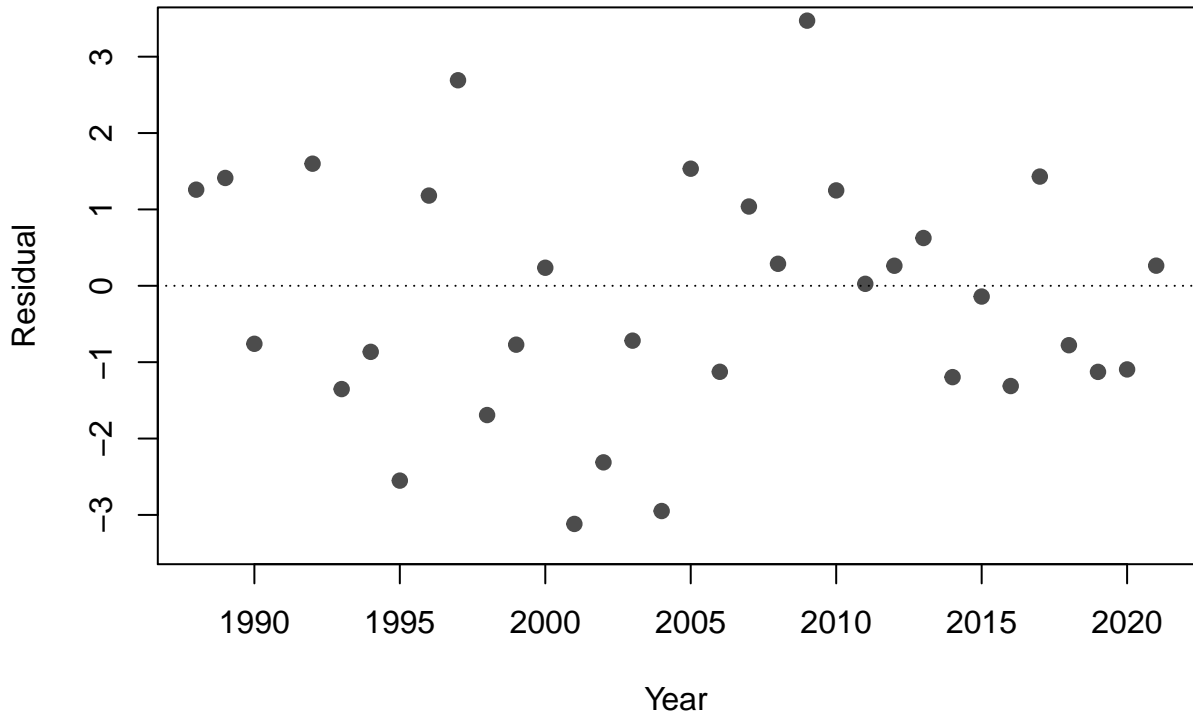


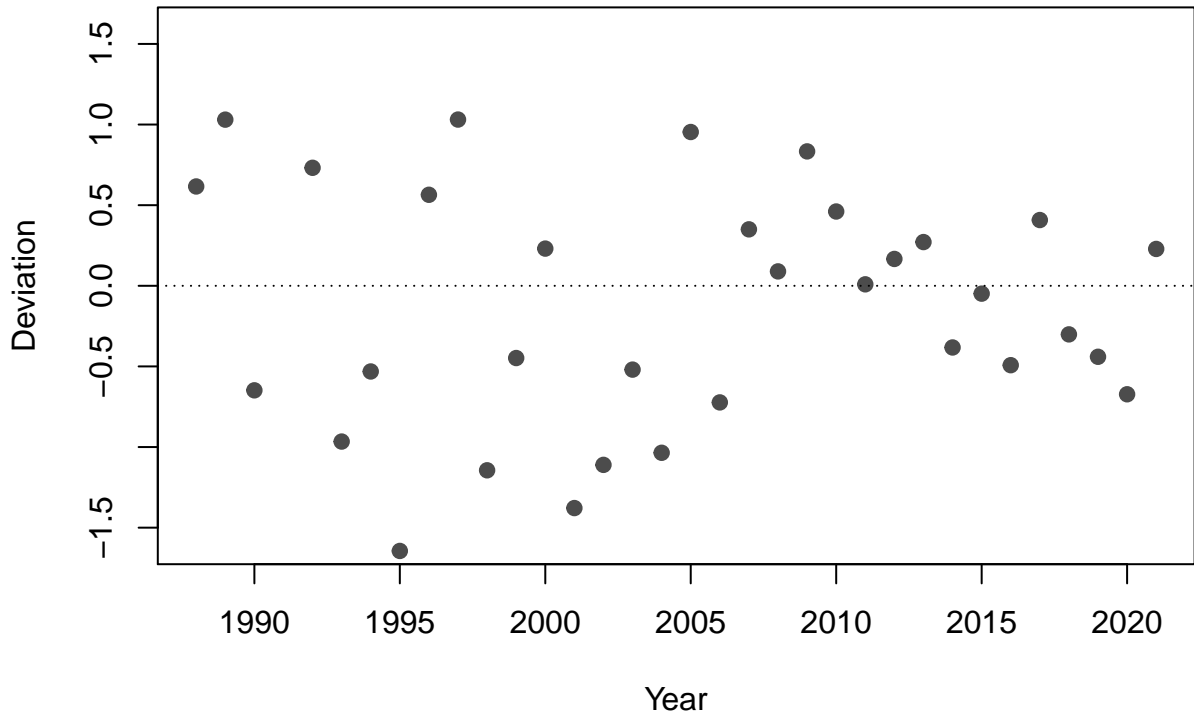


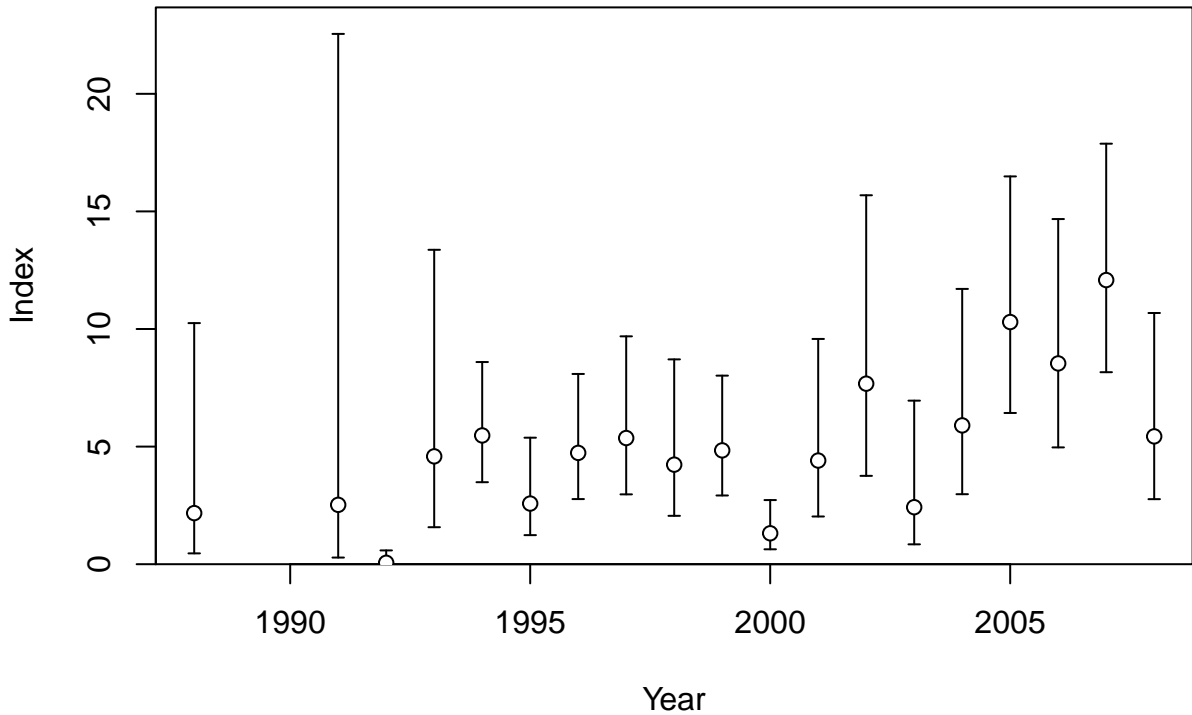


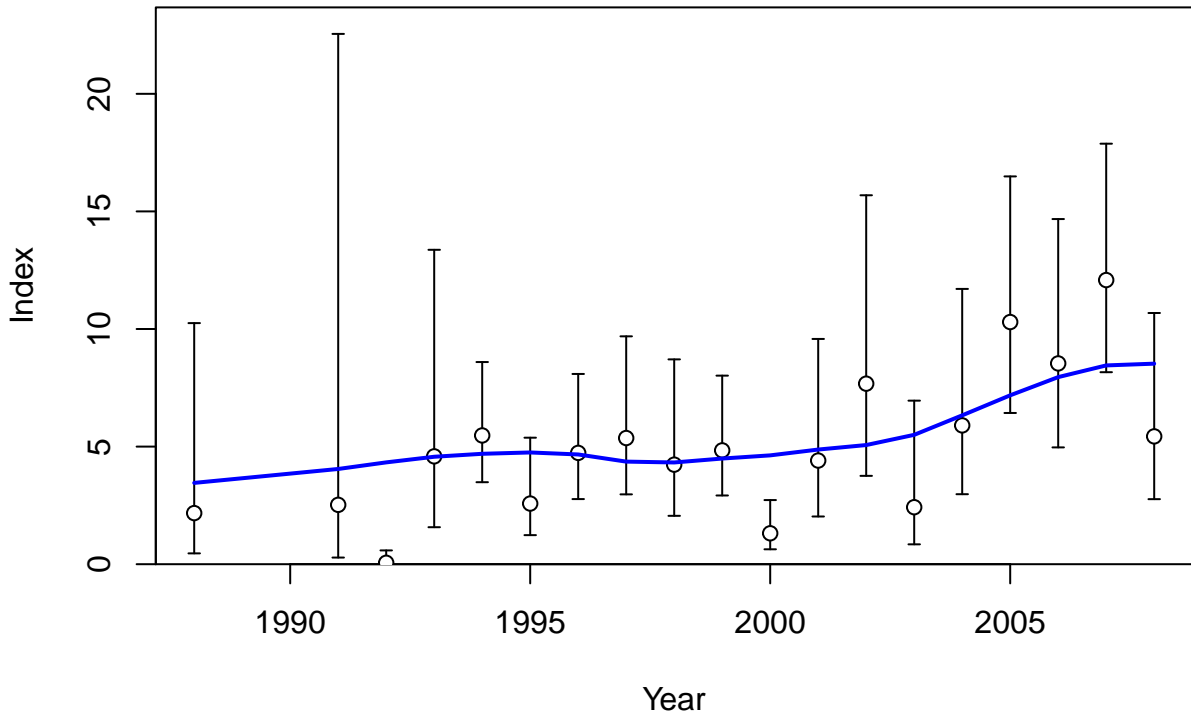


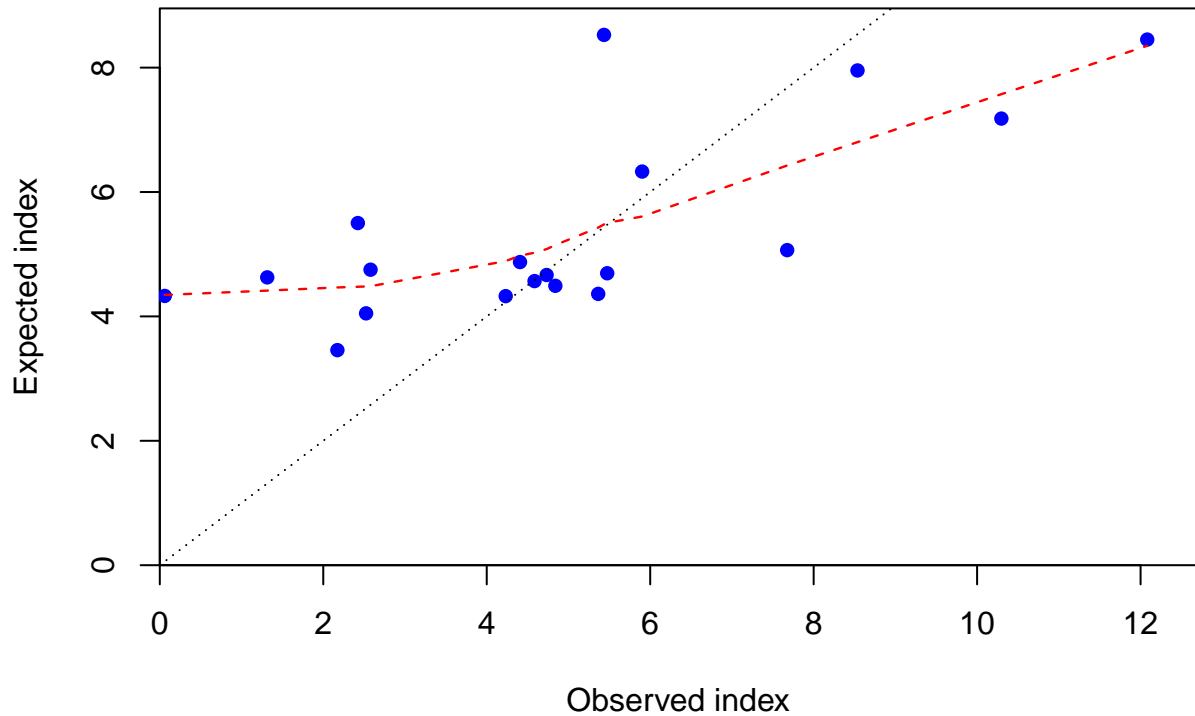


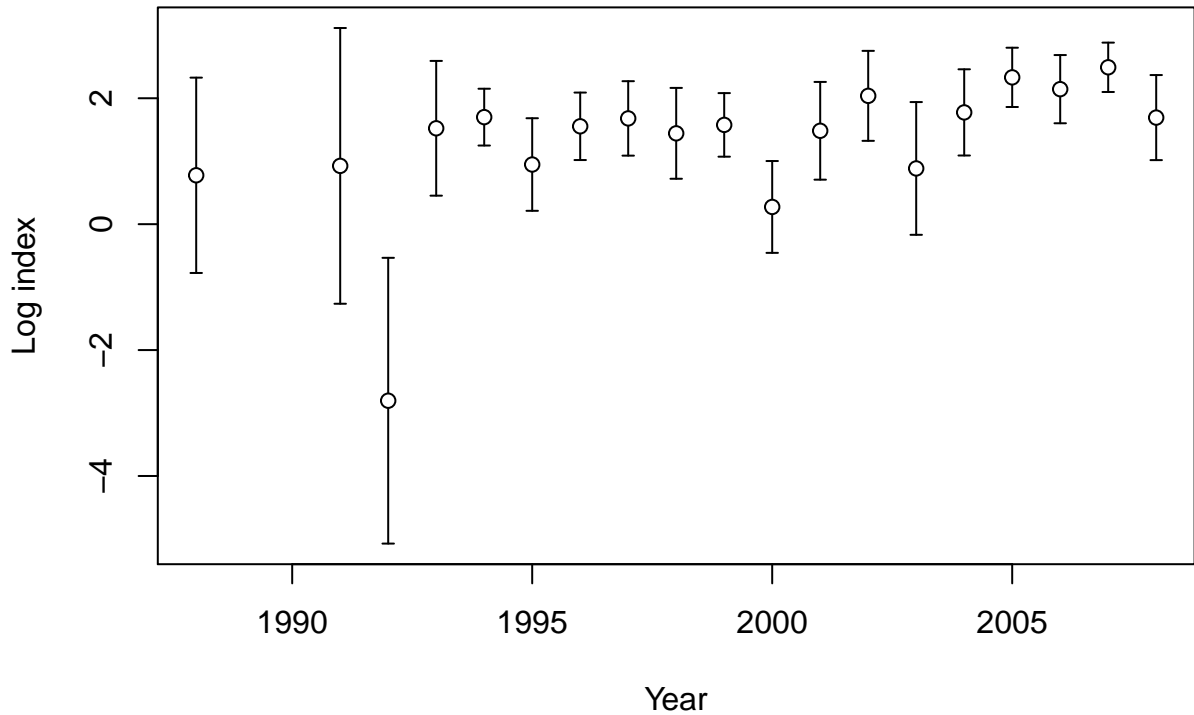


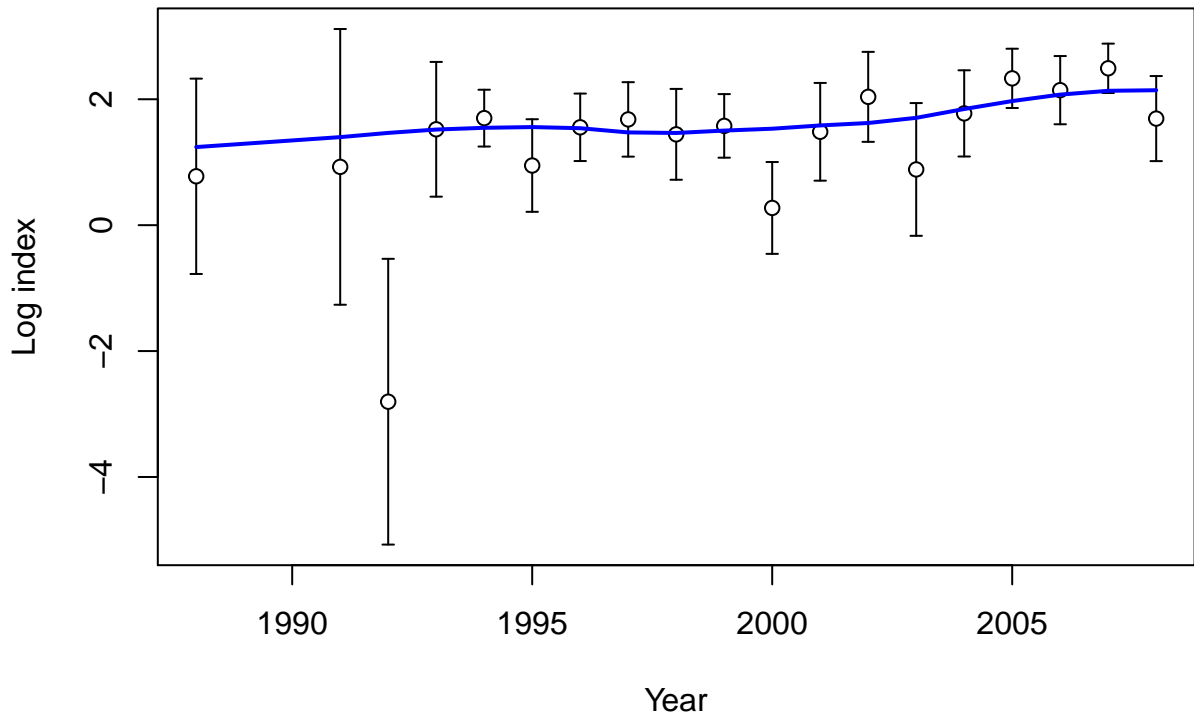


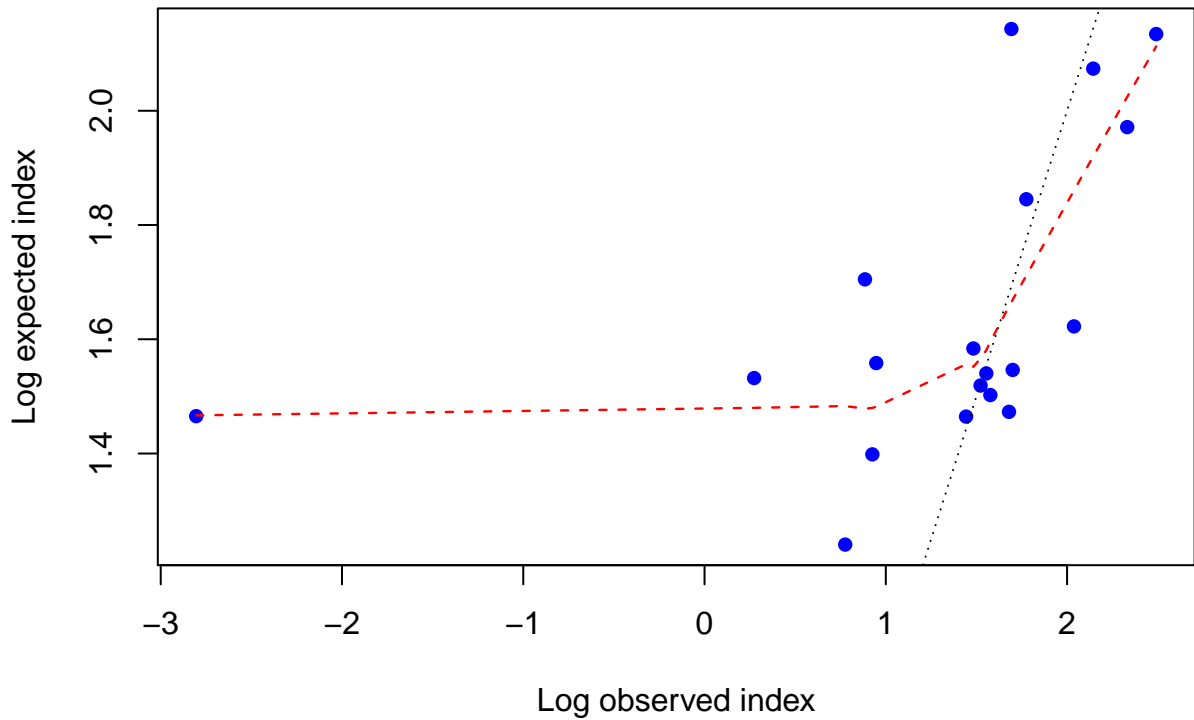


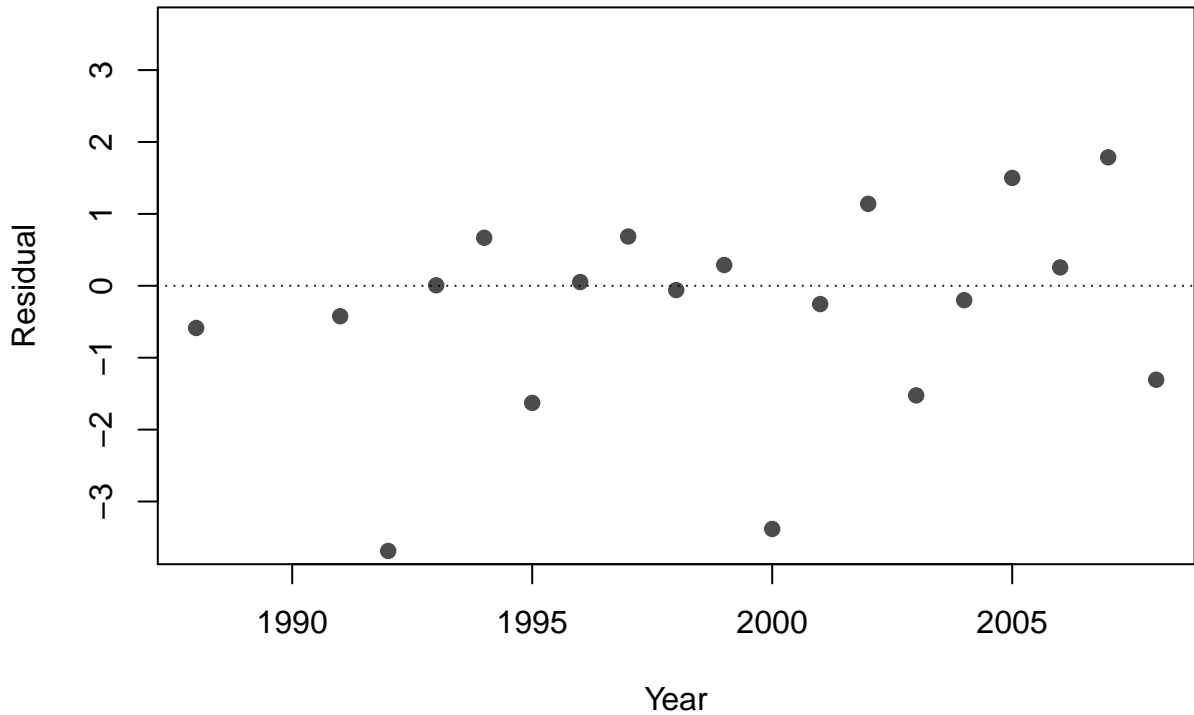


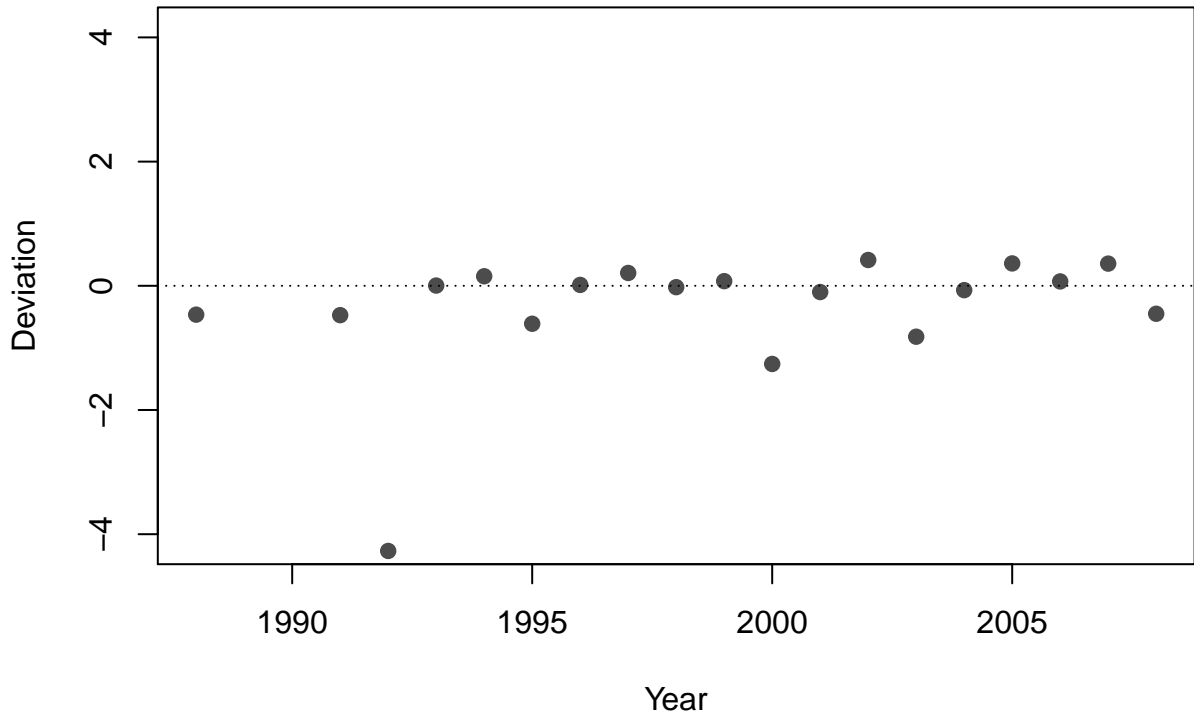




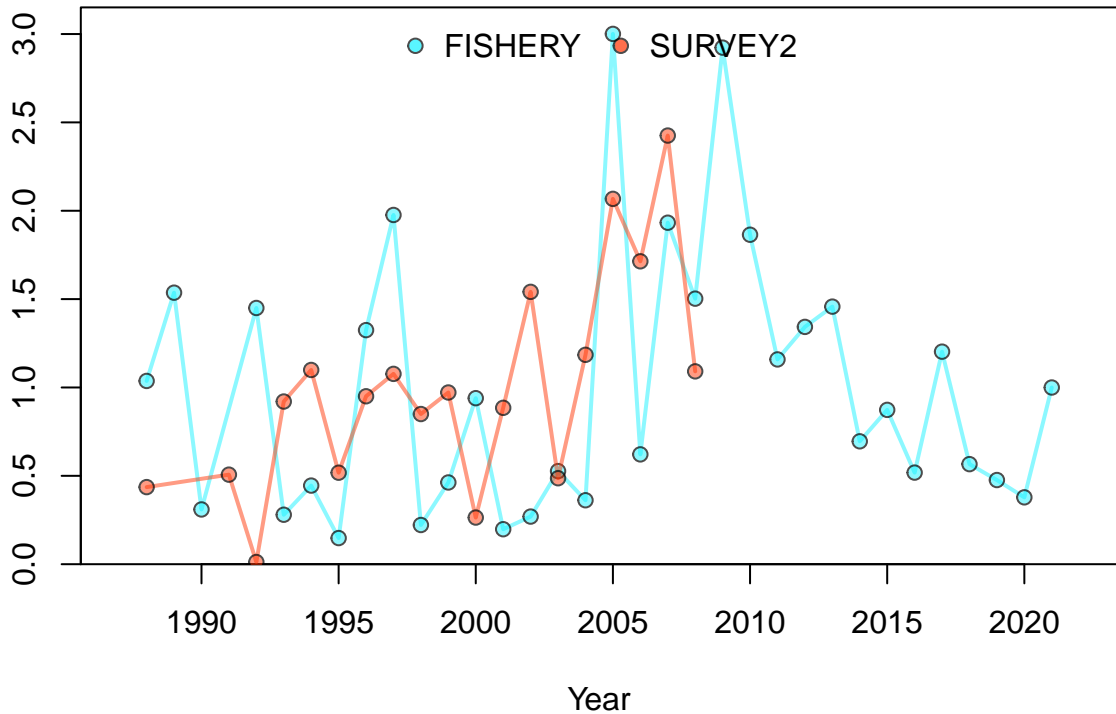


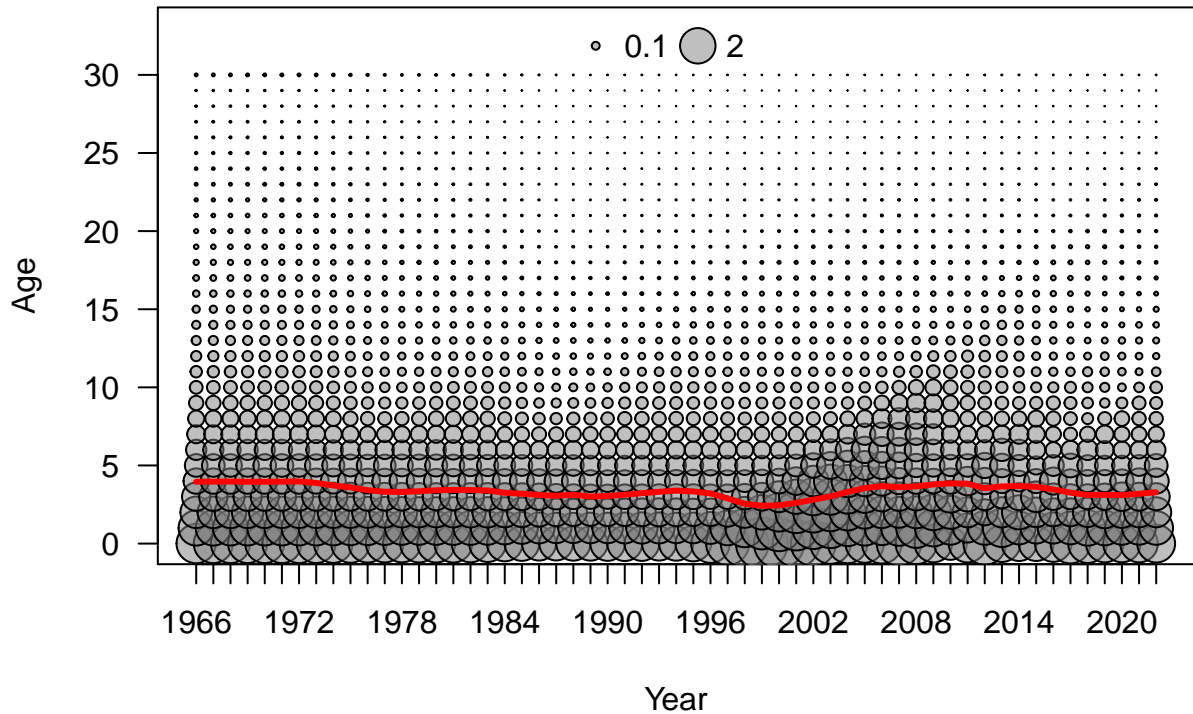


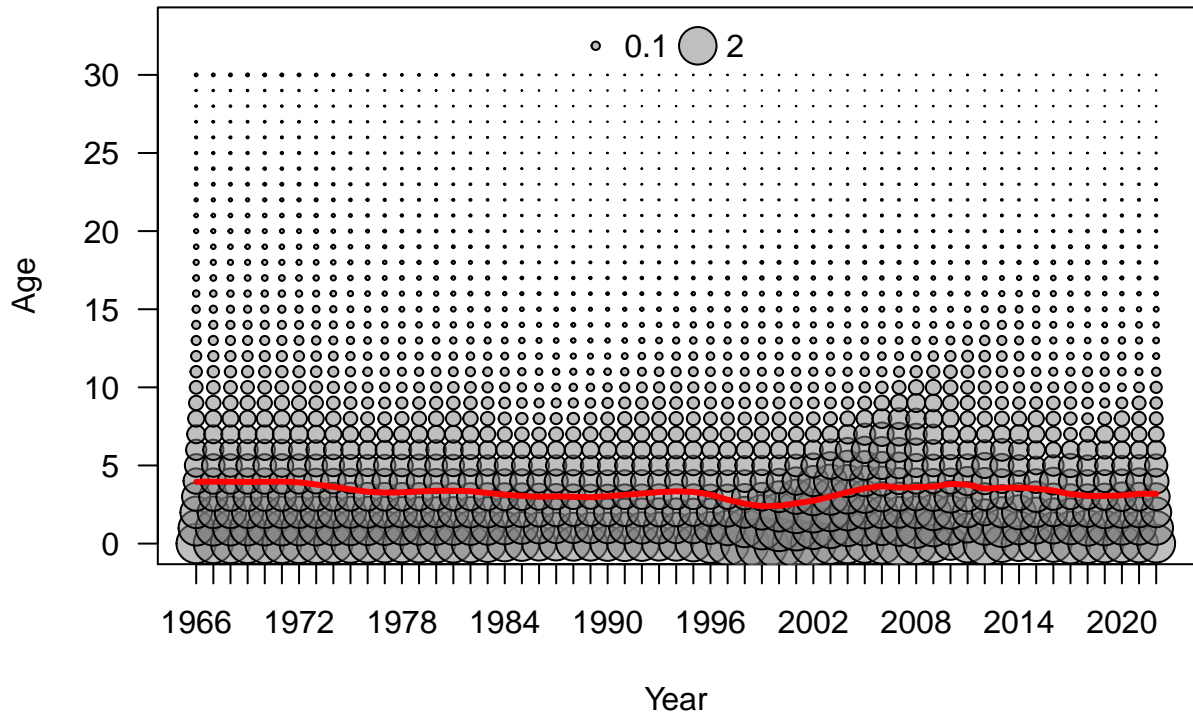




Standardized index





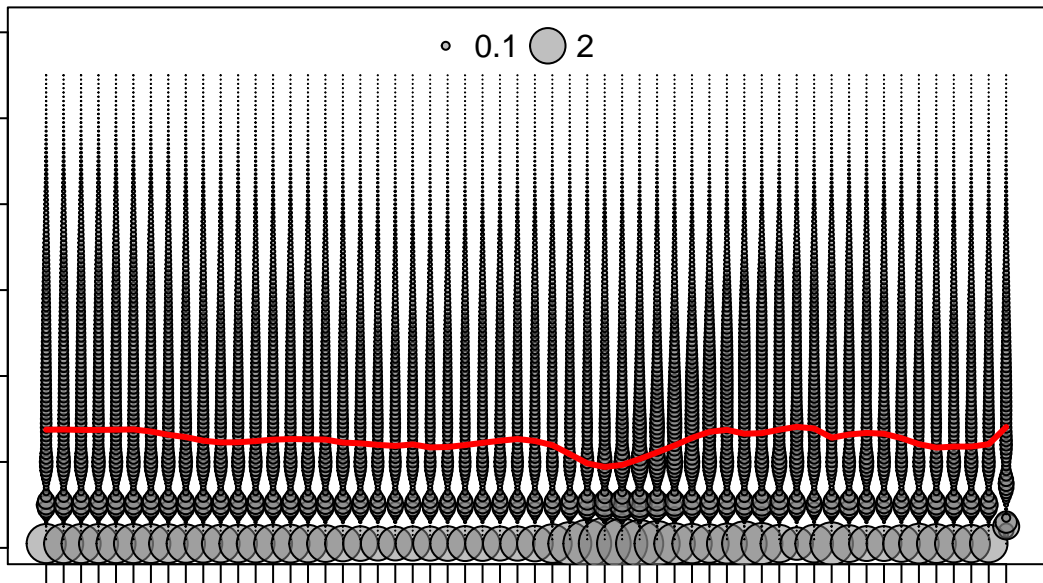


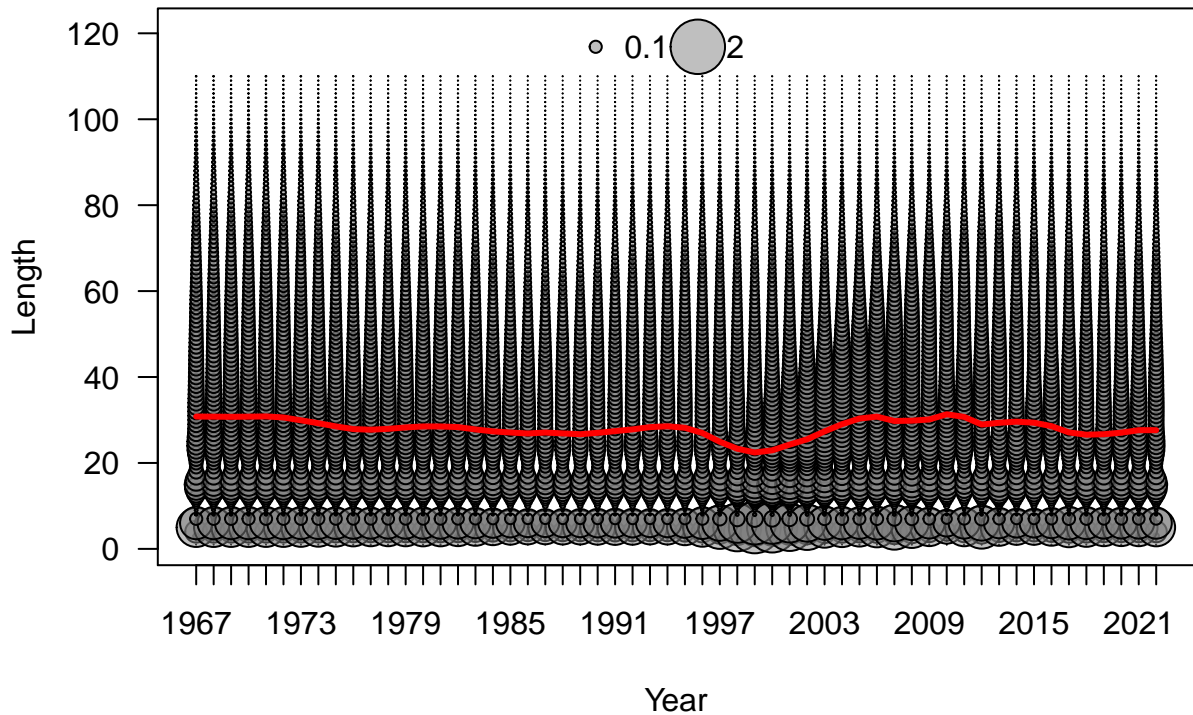
Length

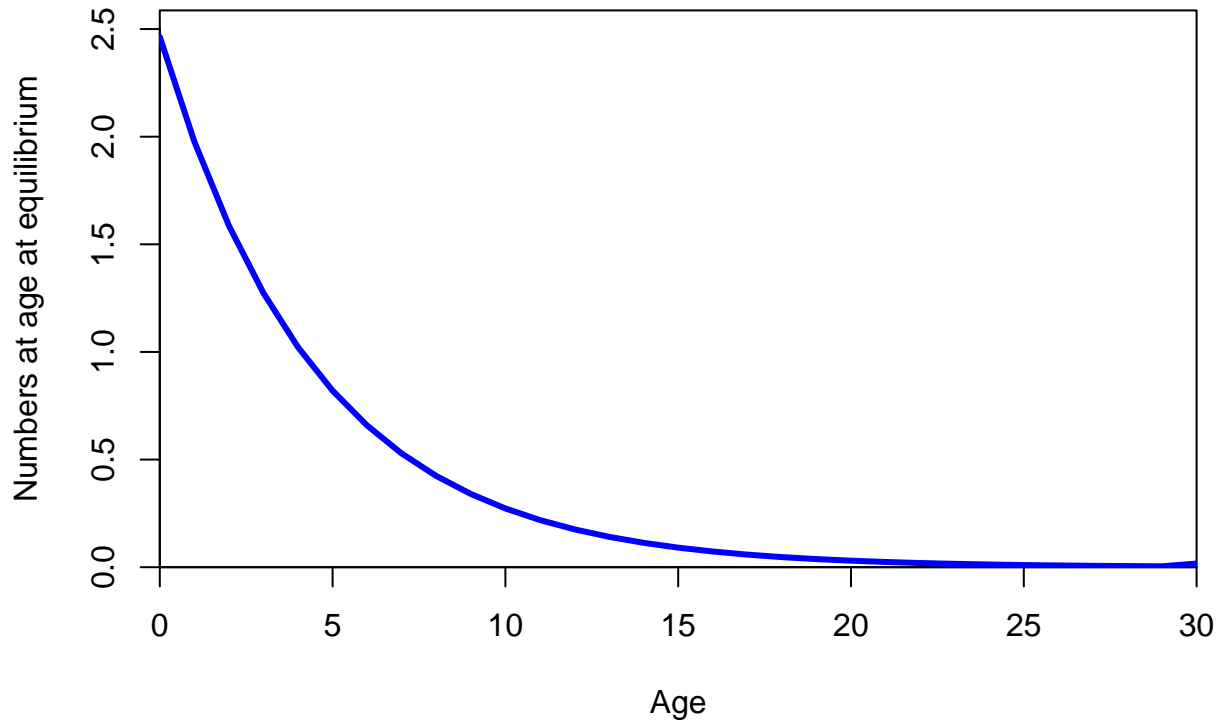
◦ 0.1 ● 2

1967 1973 1979 1985 1991 1997 2003 2009 2015 2021

Year

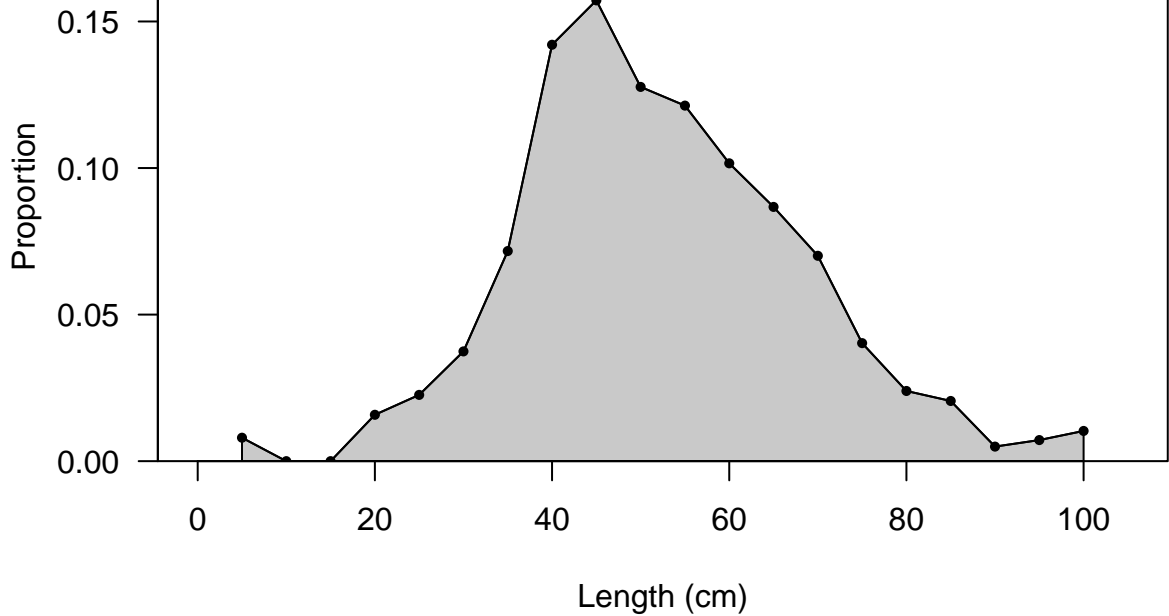


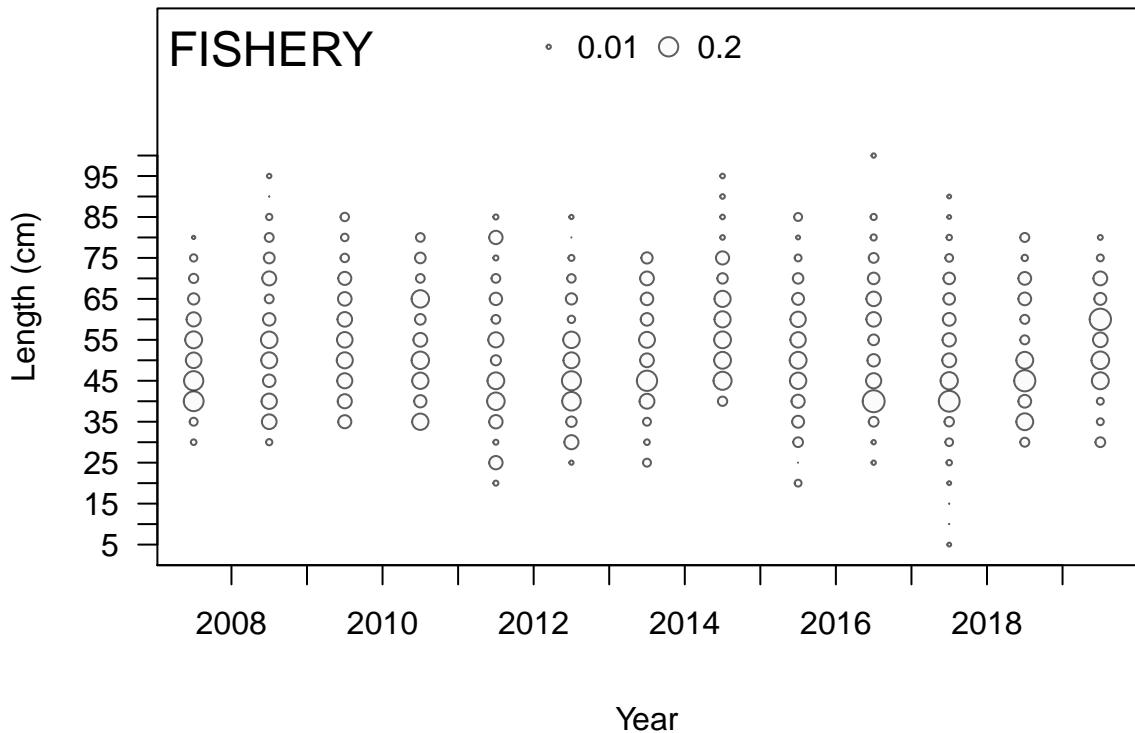




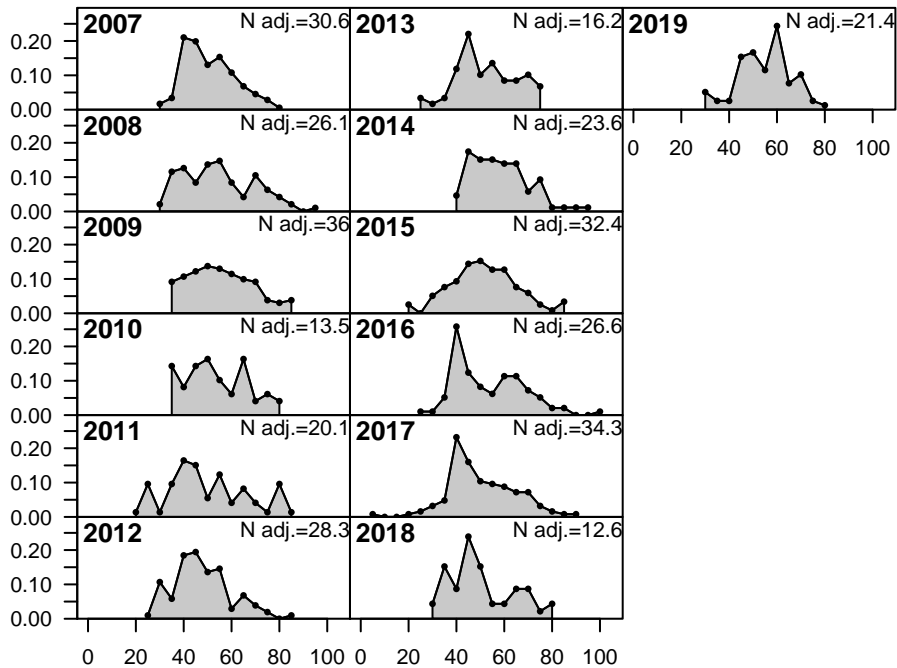
FISHERY

Sum of N adj.=321.7

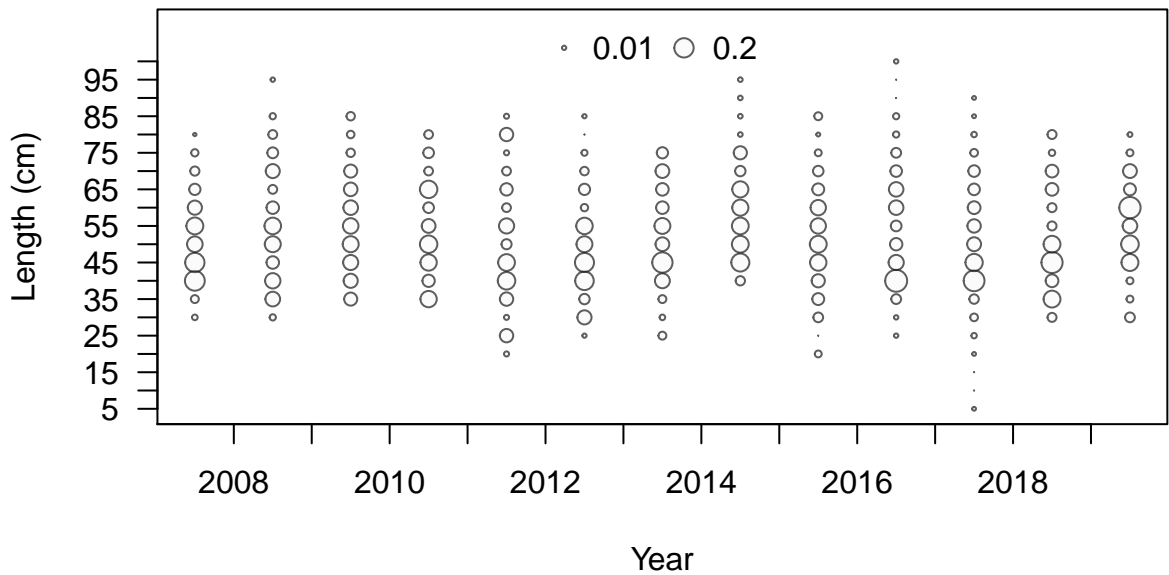




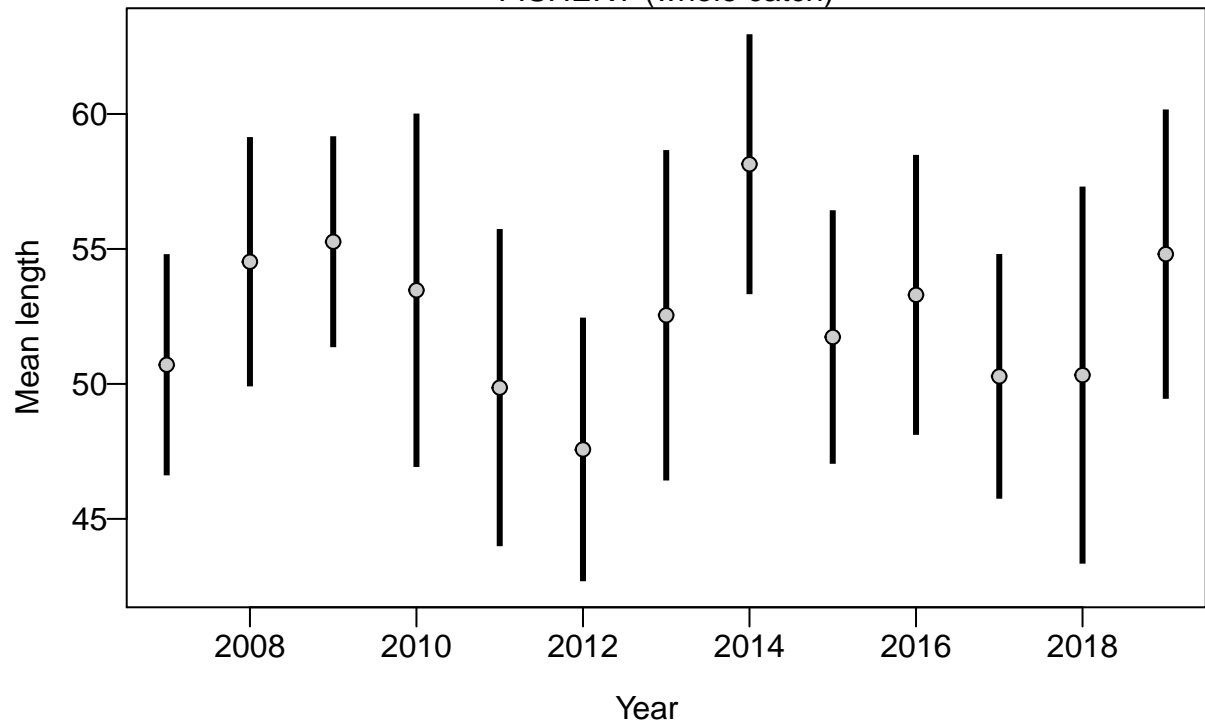
Proportion



Length (cm)

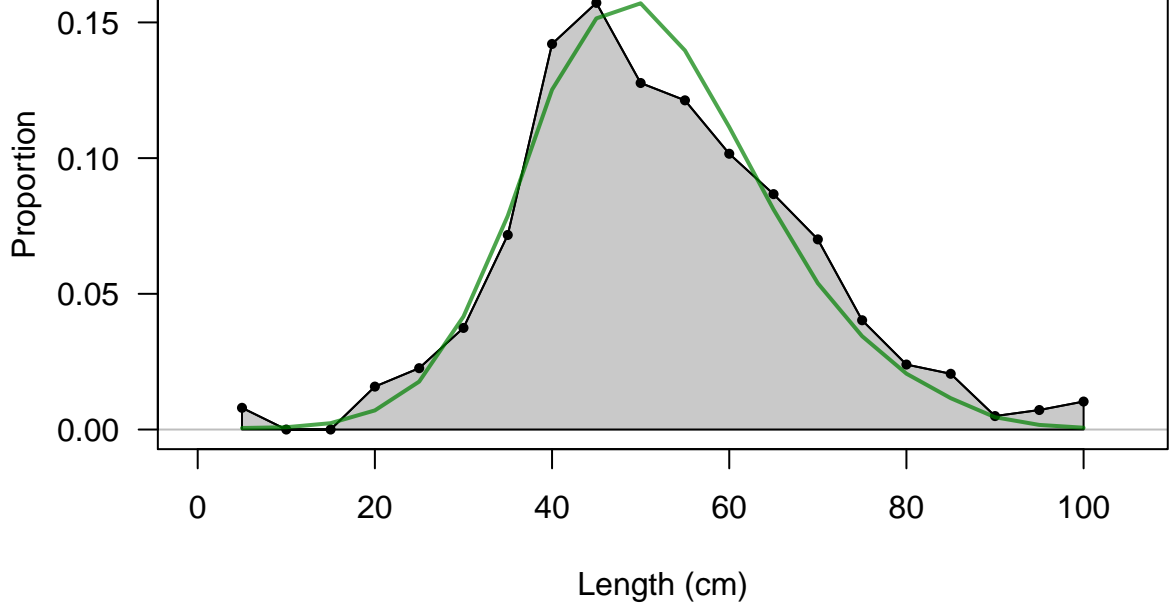


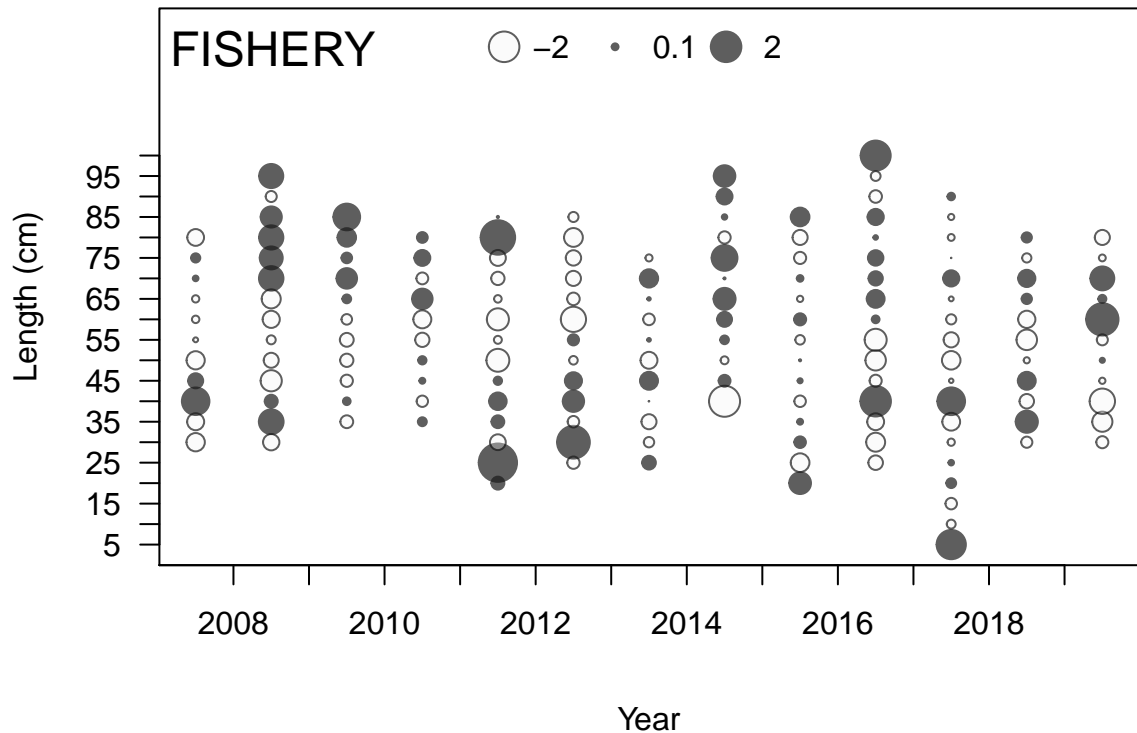
FISHERY (whole catch)



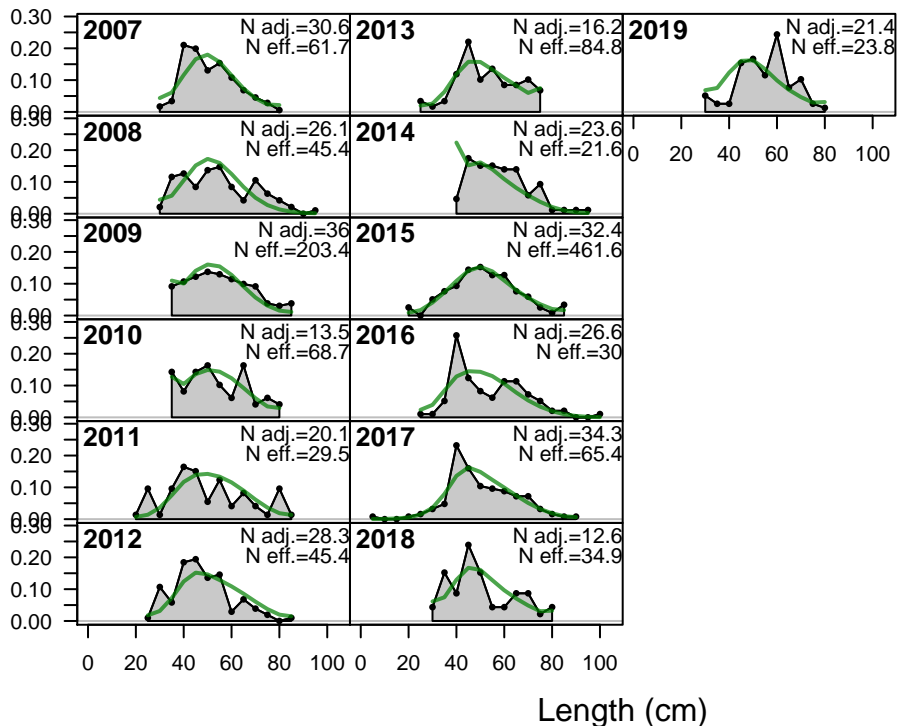
FISHERY

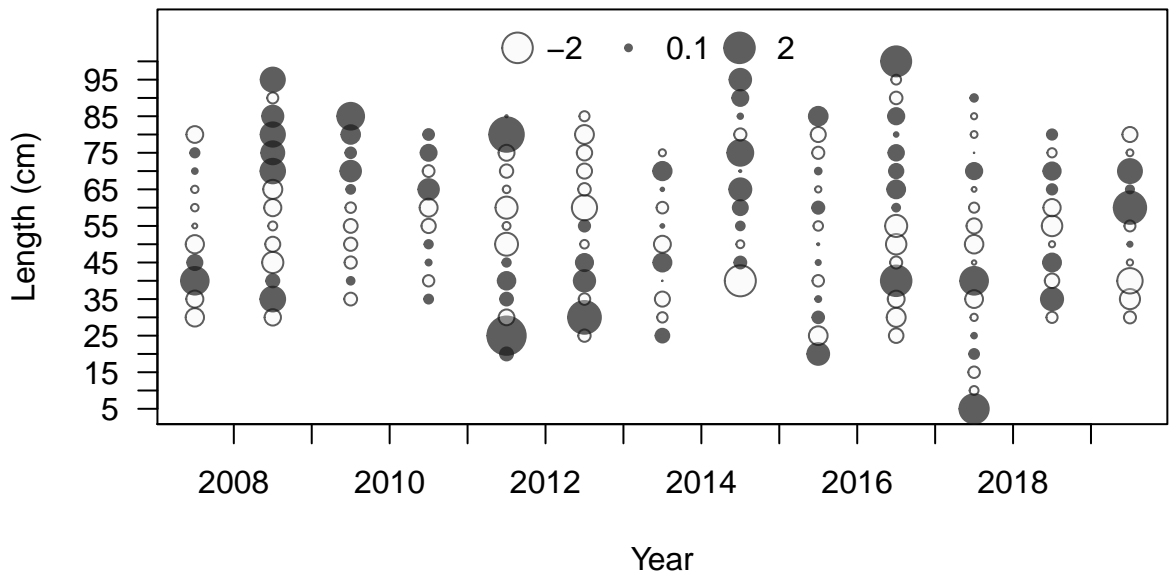
Sum of N adj.=321.7
Sum of N eff.=1176.1



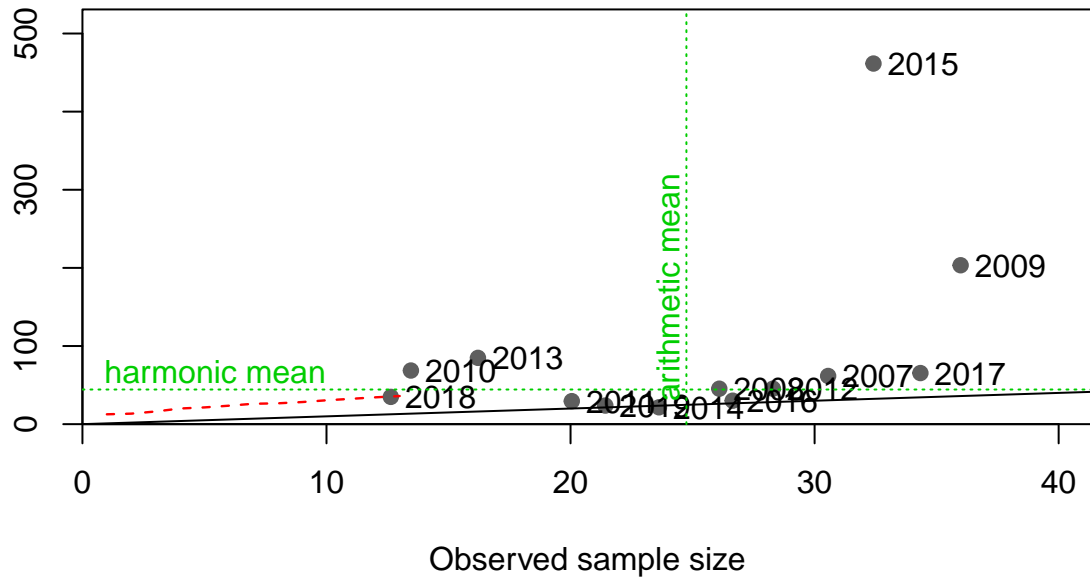


Proportion

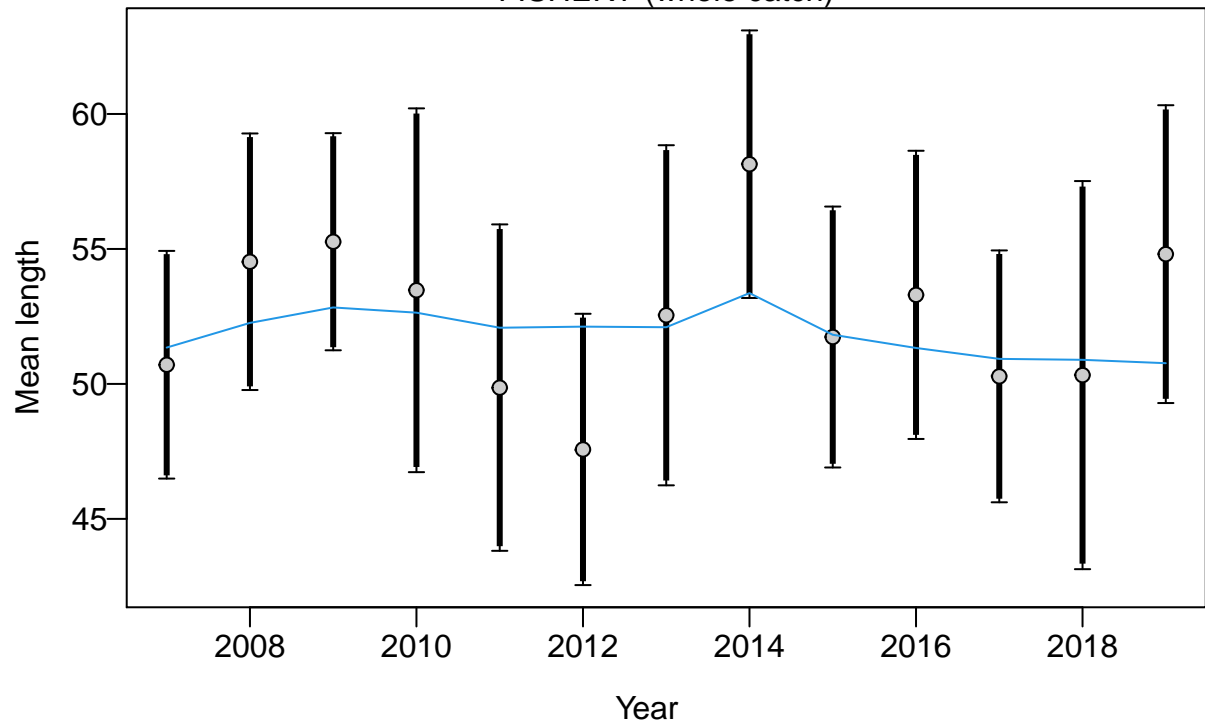


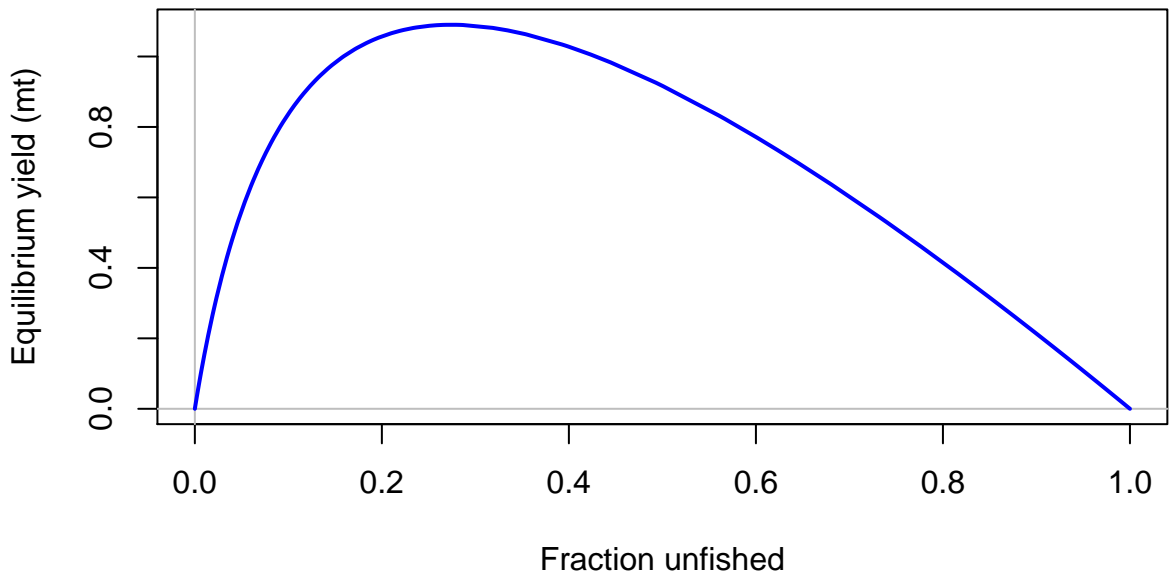


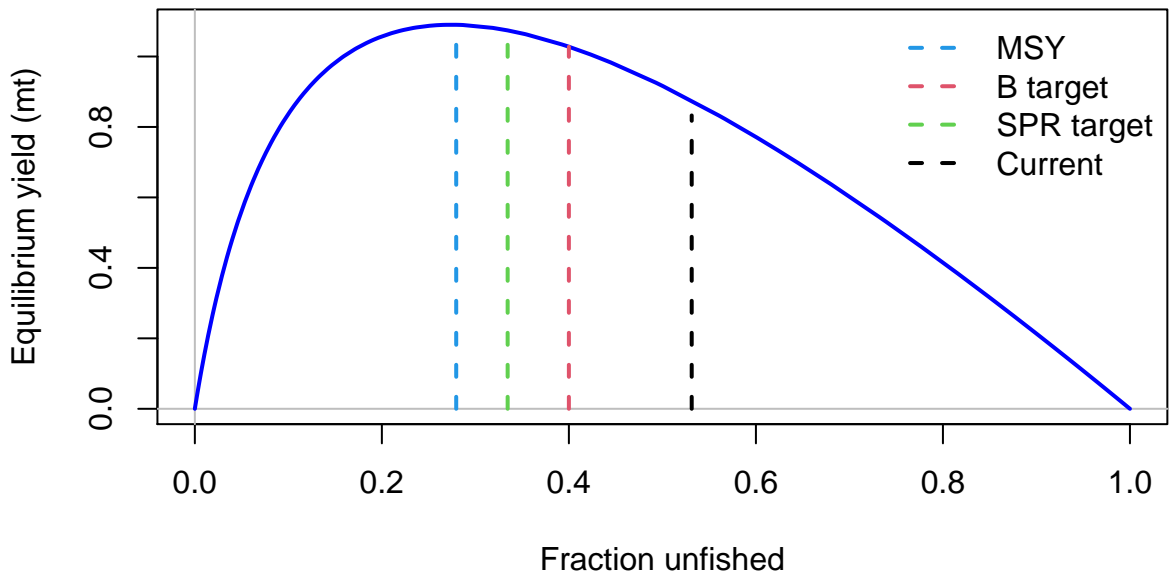
Effective sample size

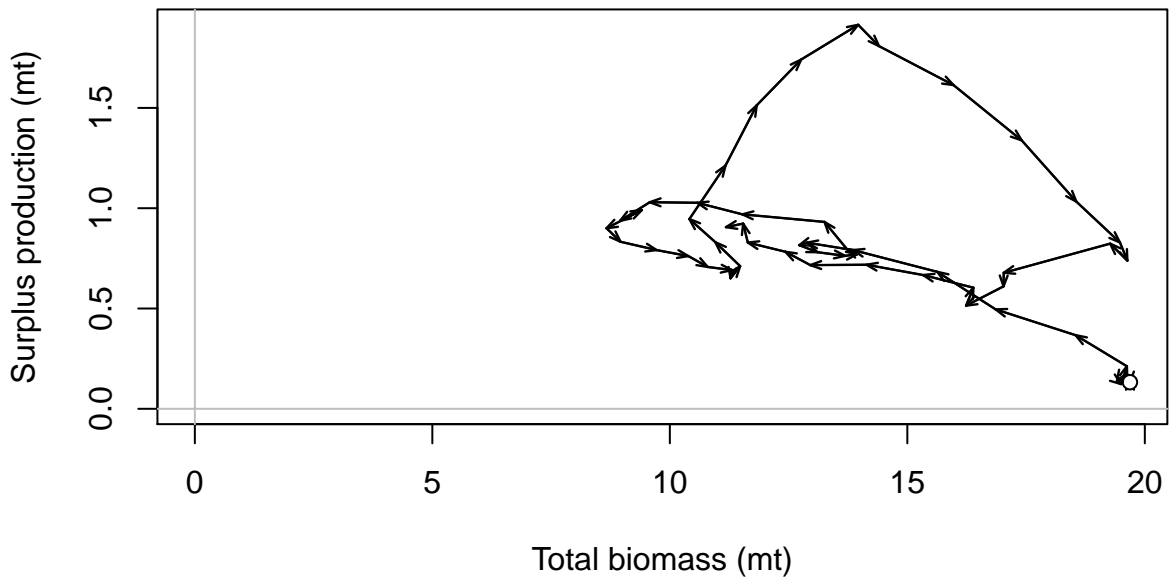


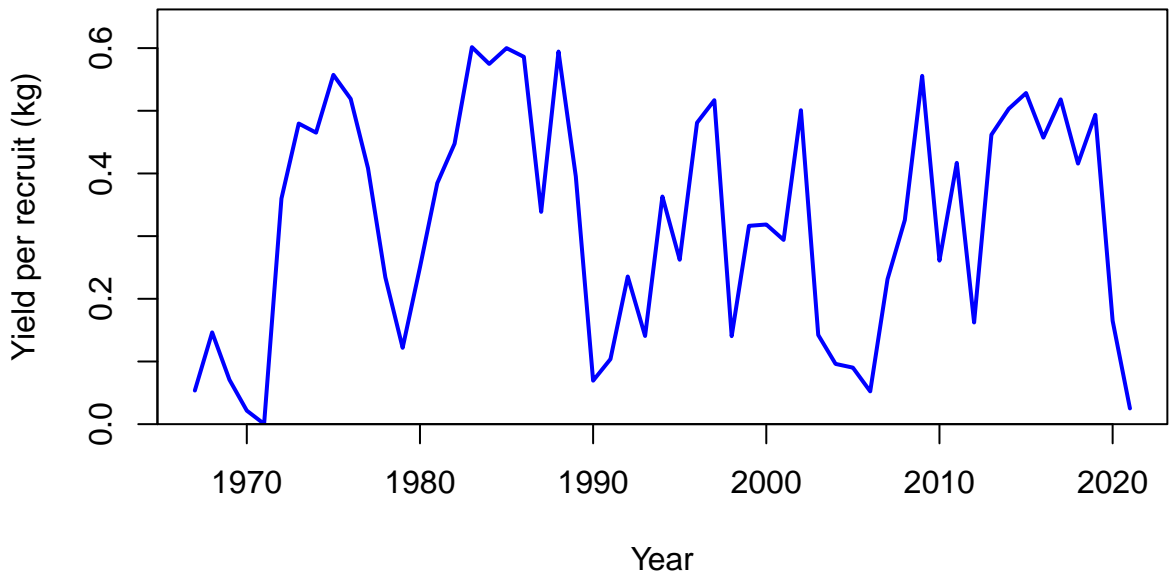
FISHERY (whole catch)

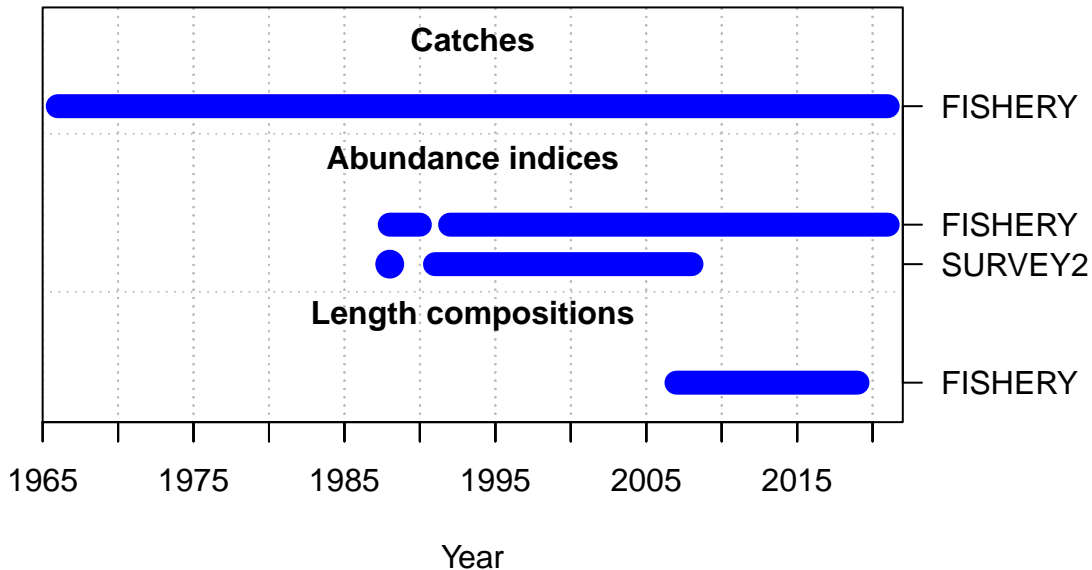


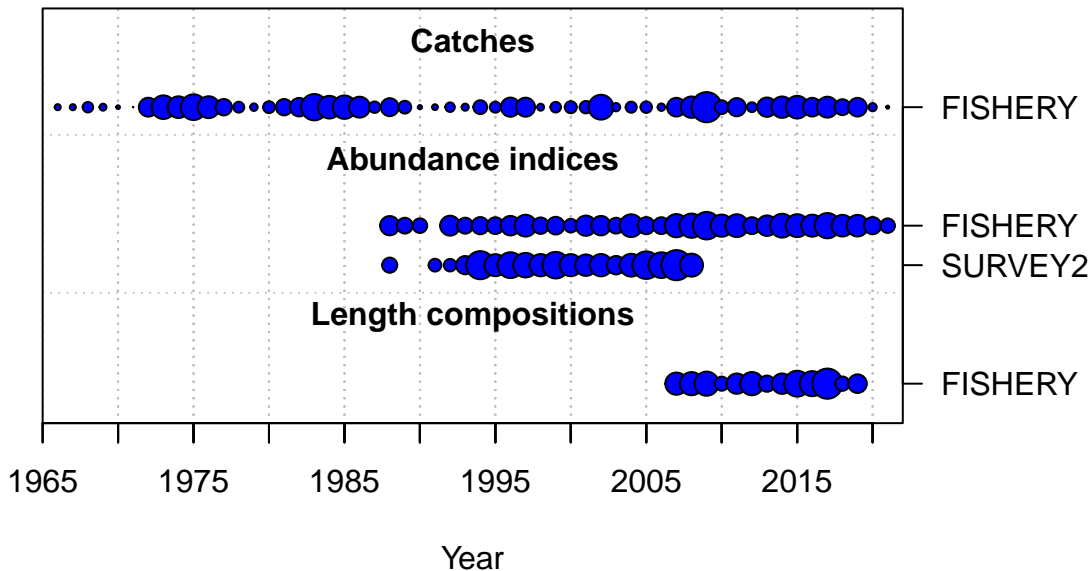




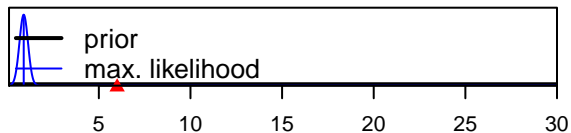




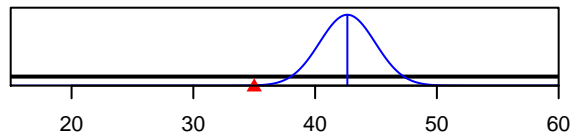




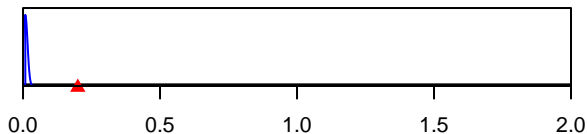
SR_LN(R0)



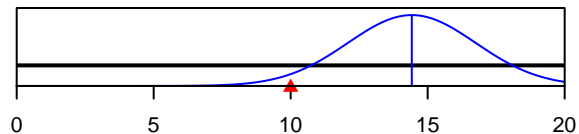
Size_inflection_FISHERY(1)



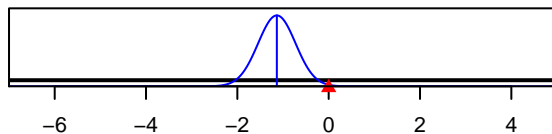
InitF_seas_1flt_1FISHERY



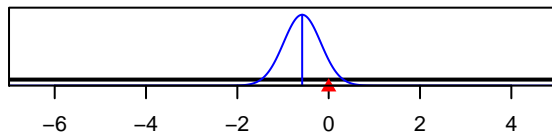
Size_95%width_FISHERY(1)



LnQ_base_FISHERY(1)



LnQ_base_SURVEY2(2)



Parameter value