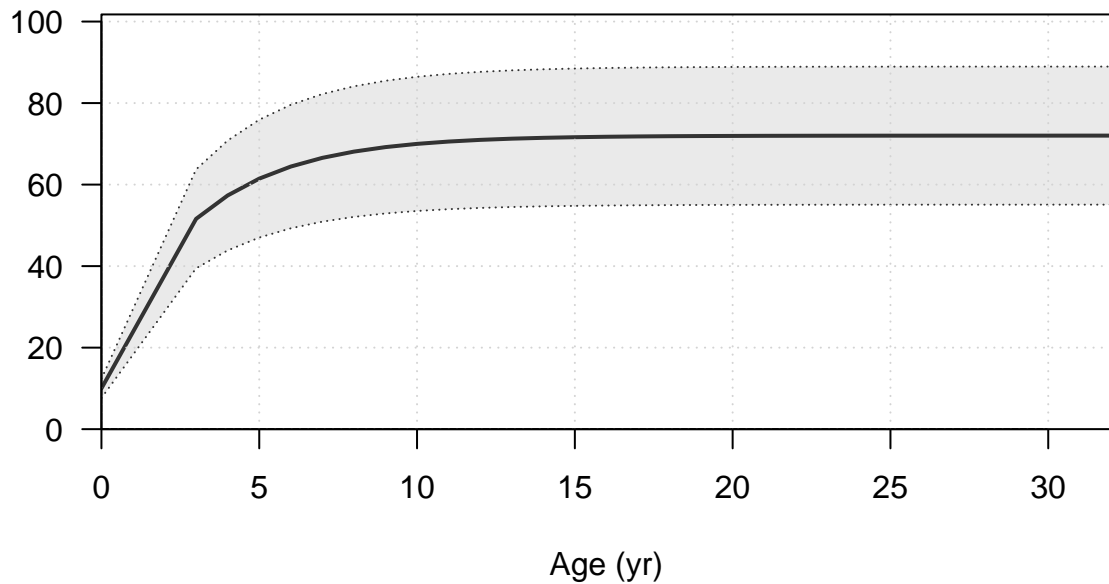
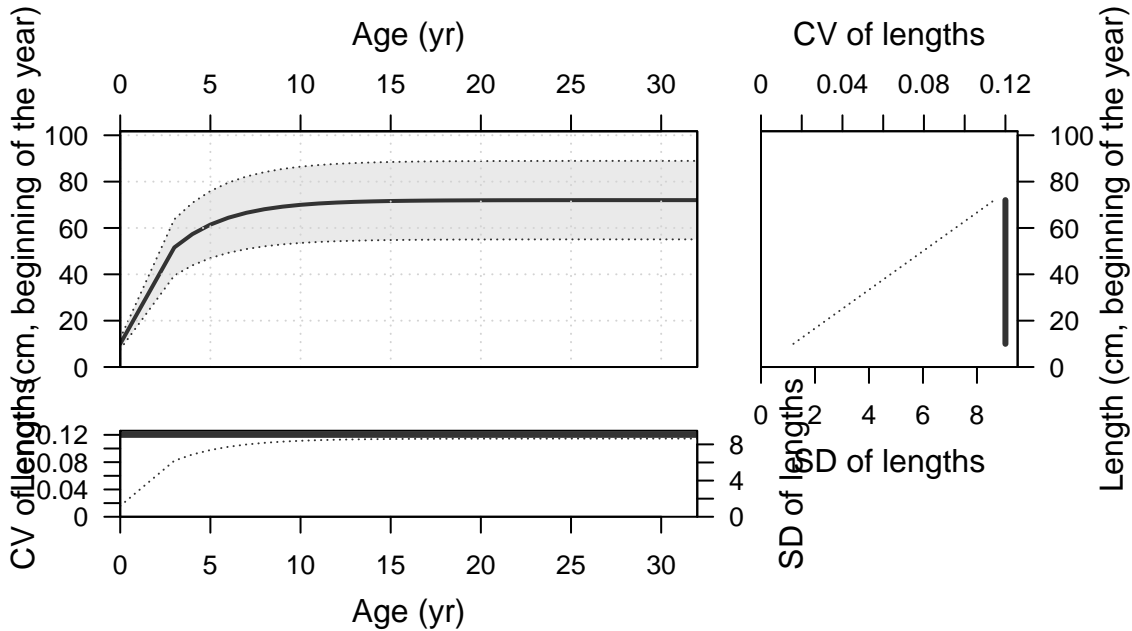
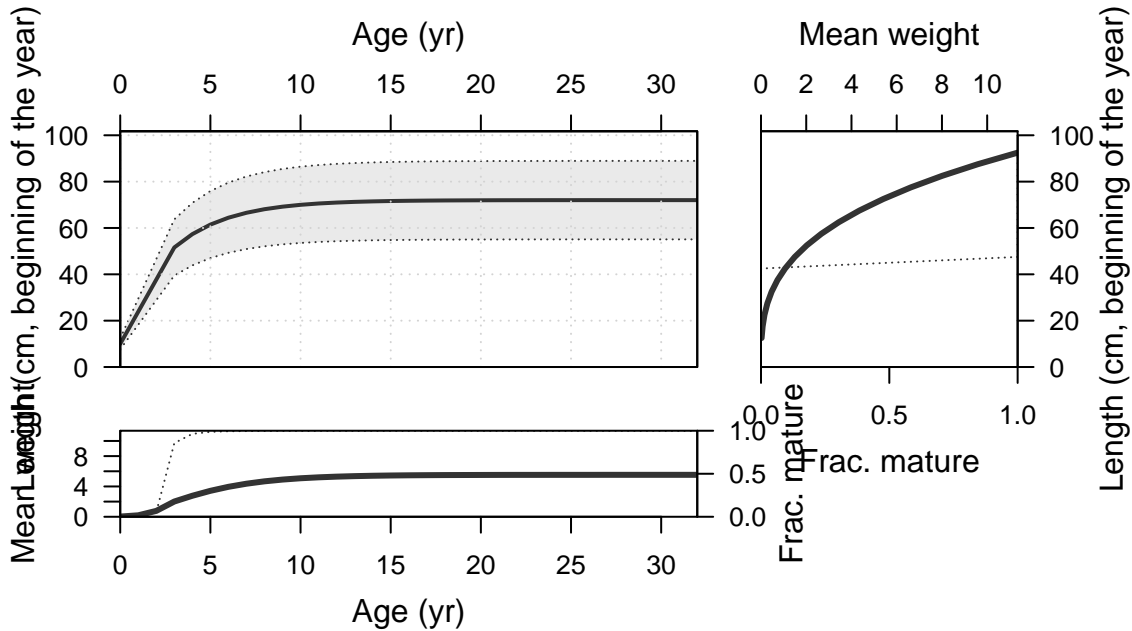


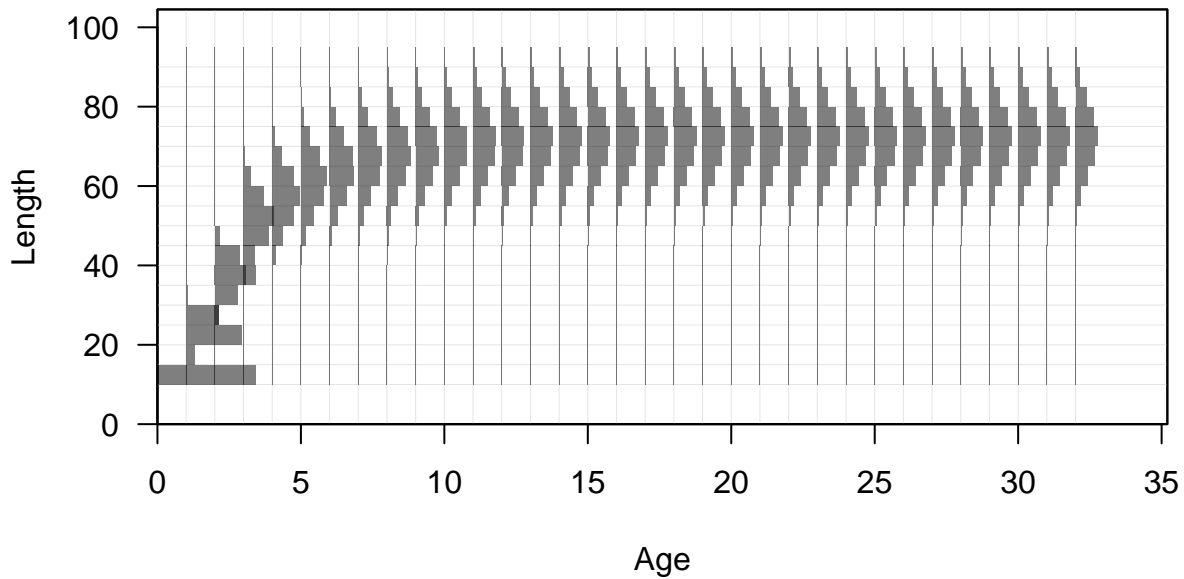
Plots created using the 'r4ss' package in R
Stock Synthesis version: 3.30.19.0
StartTime: Thu Jun 16 15:41:49 2022
Data_File: data.ss
Control_File: control.ss

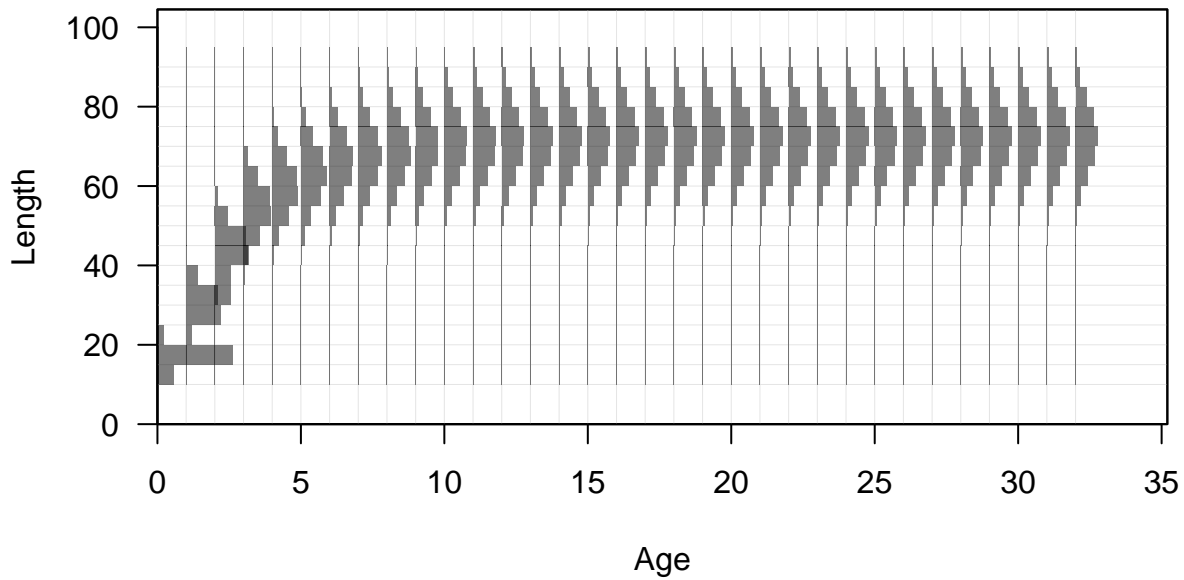
Length (cm, beginning of the year)

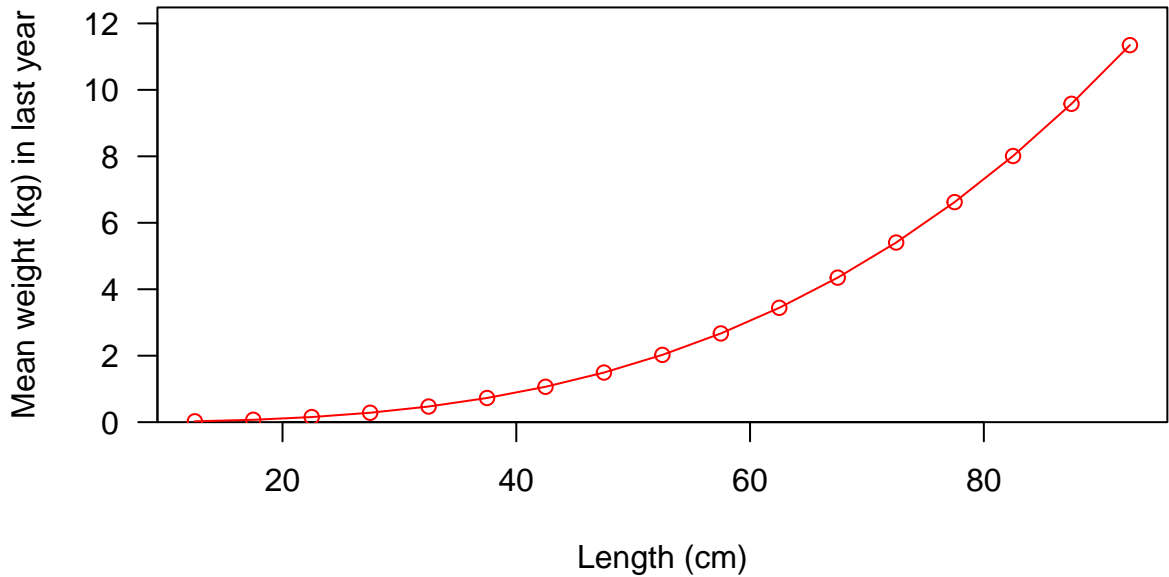


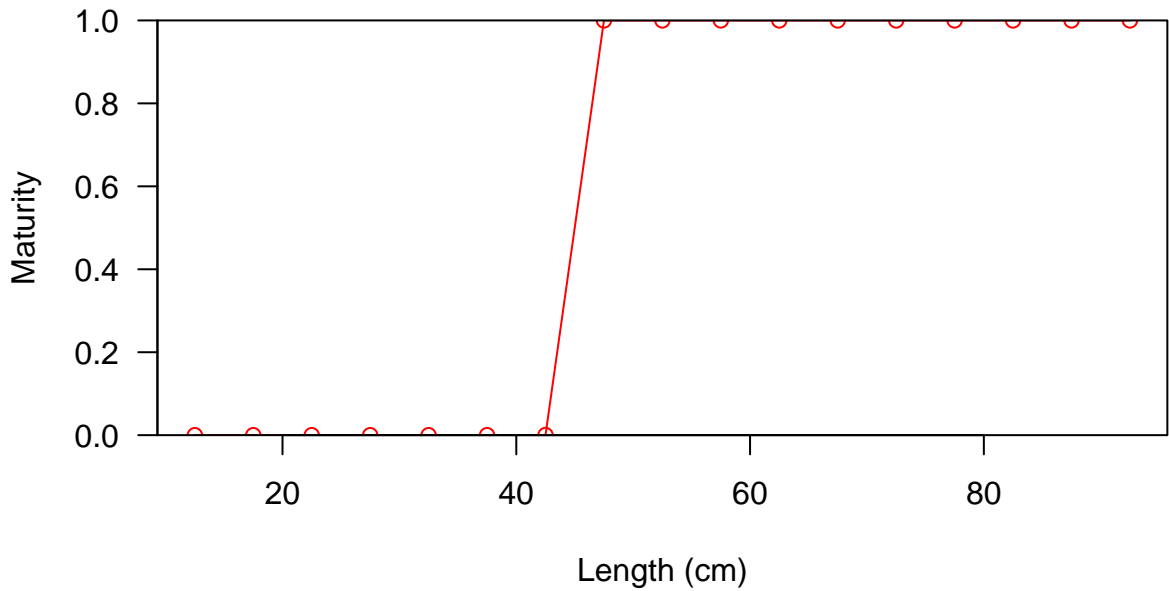


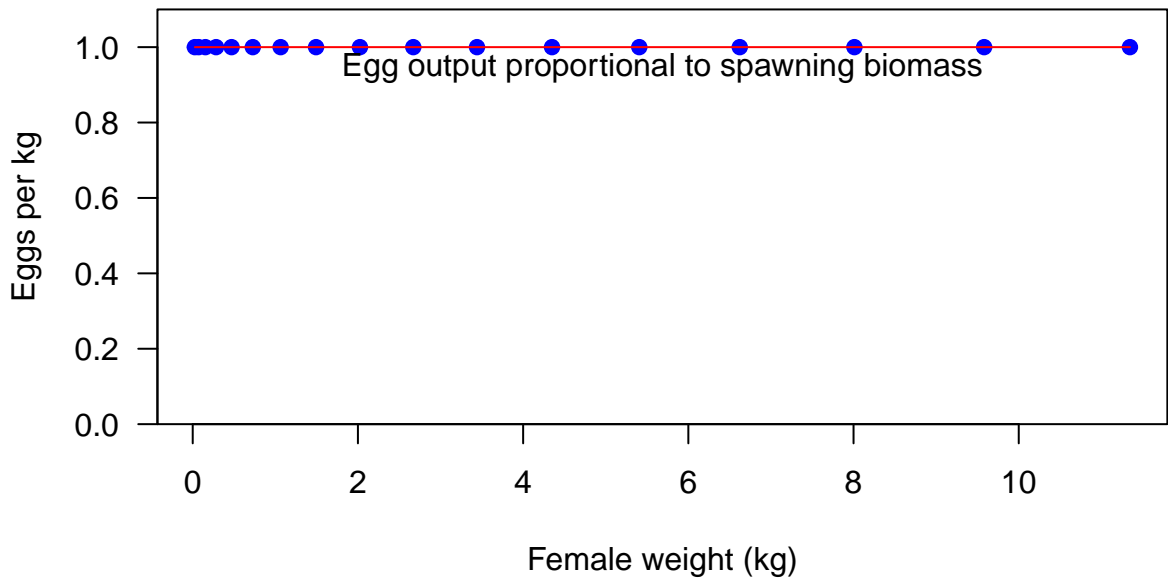




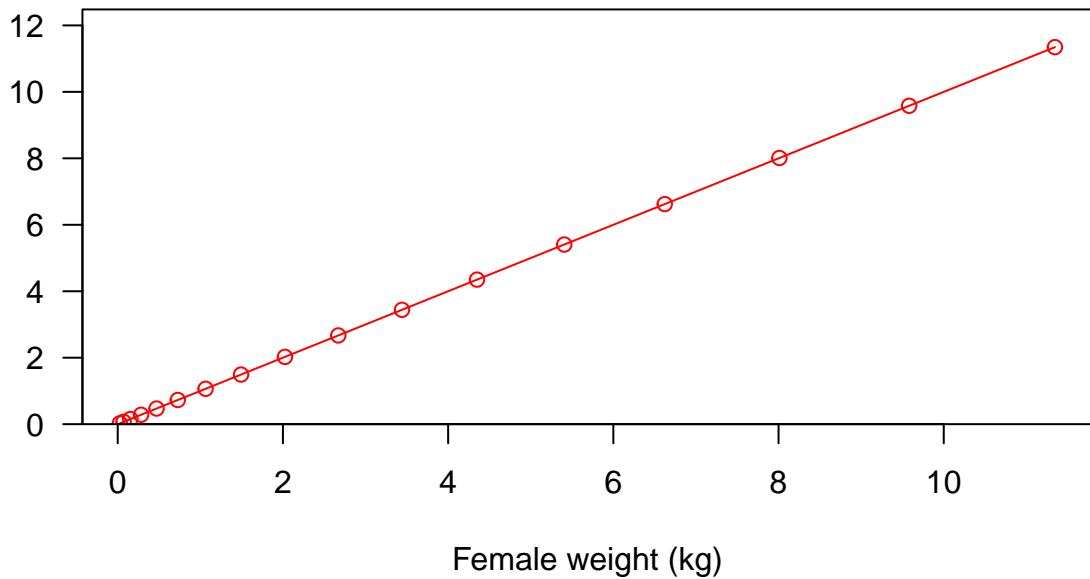




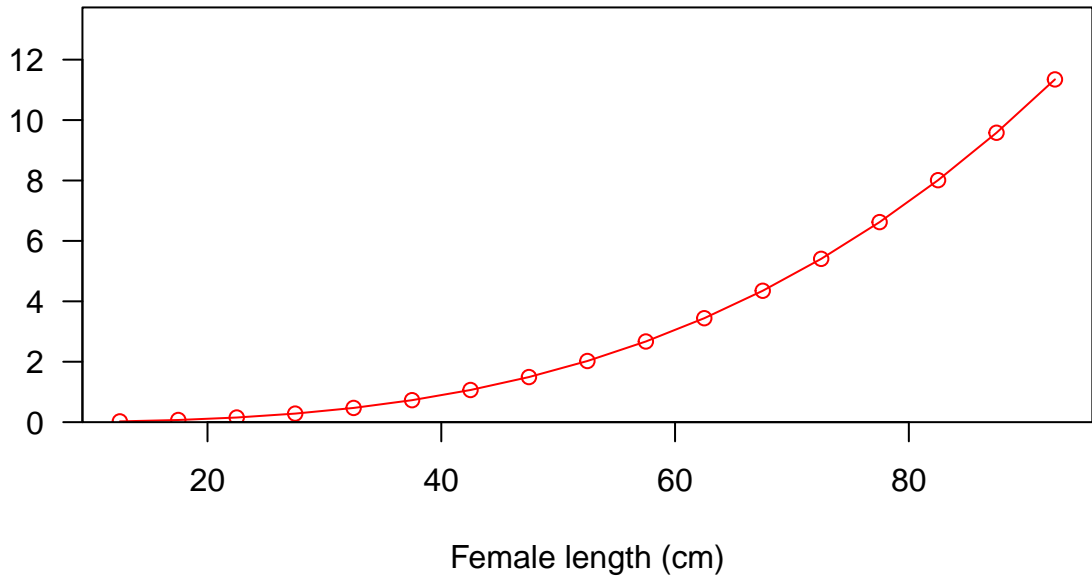




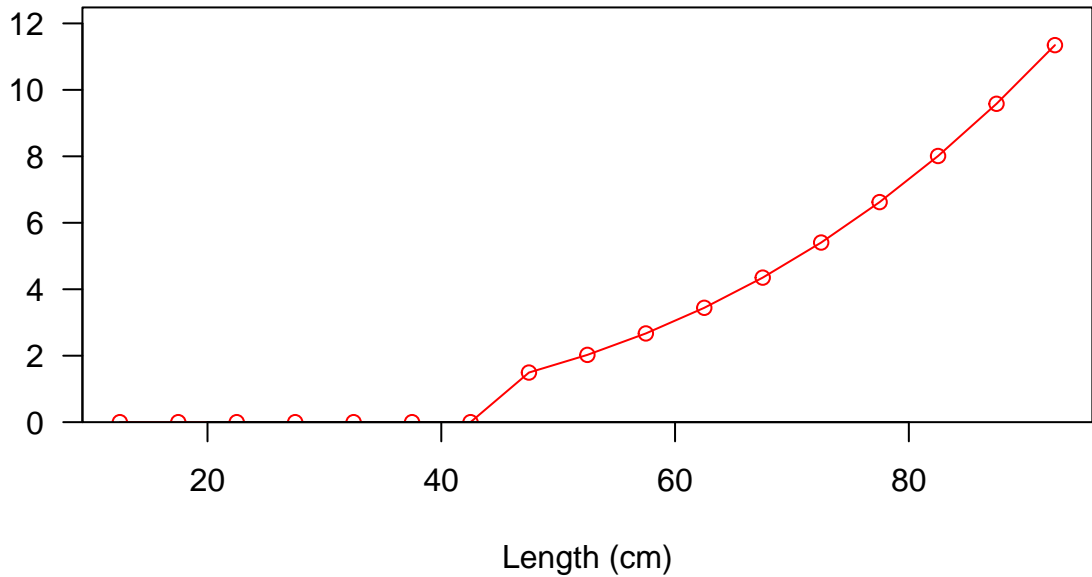
Fecundity

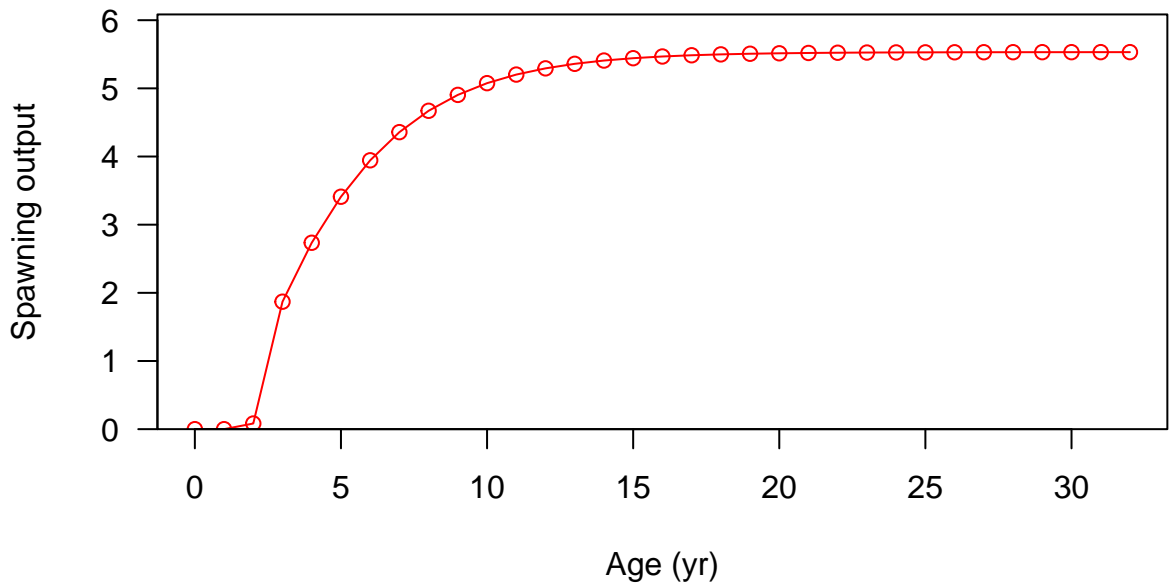


Fecundity

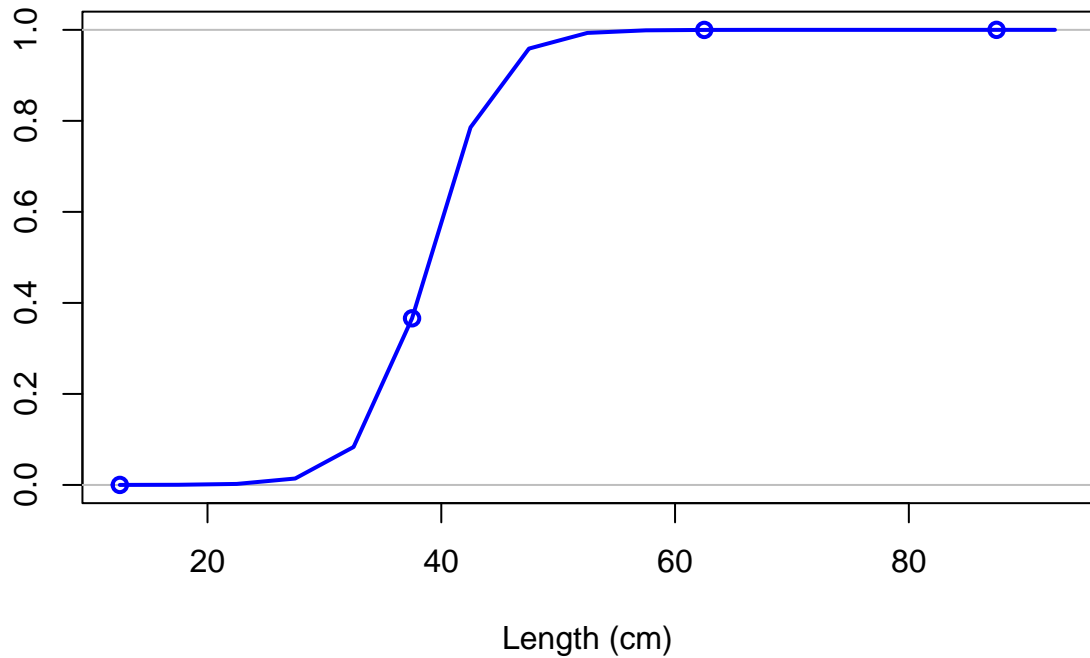


Spawning output

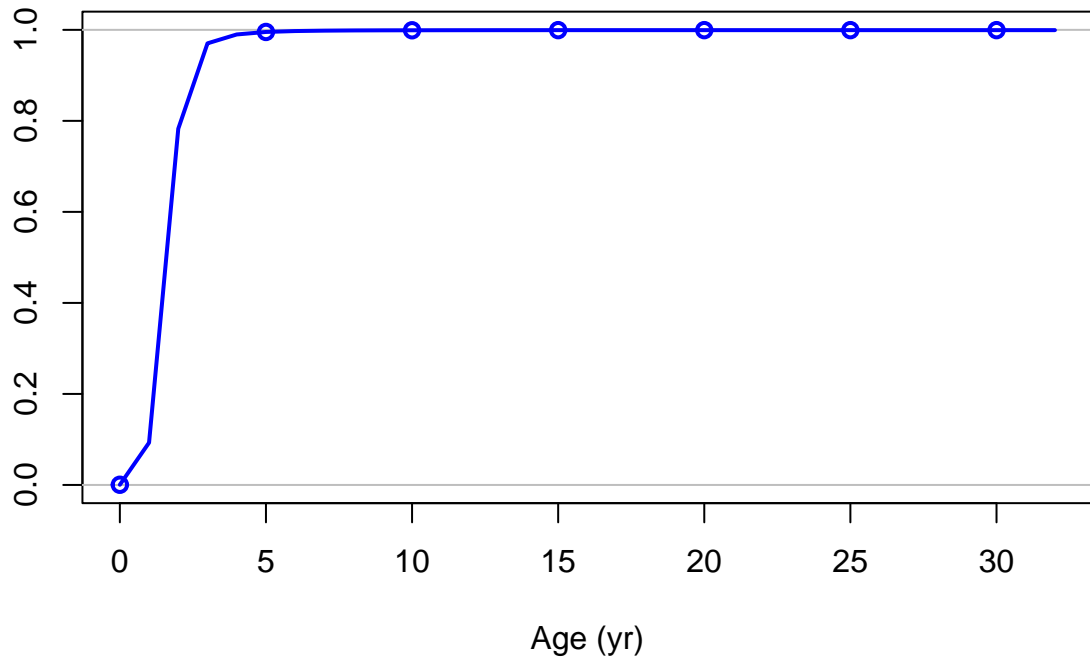




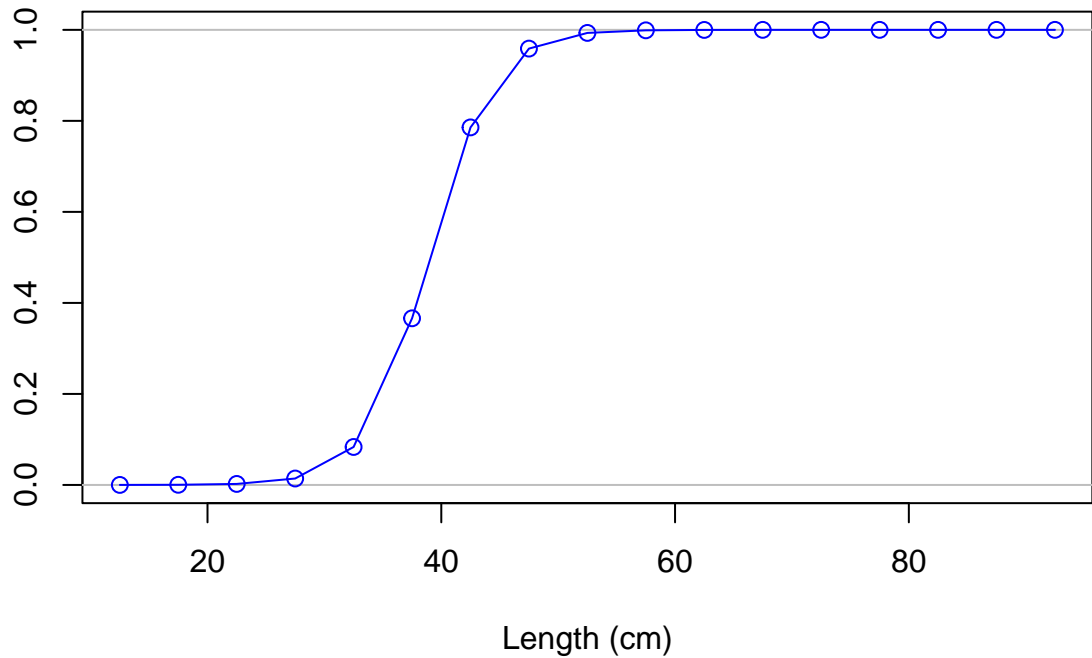
Selectivity

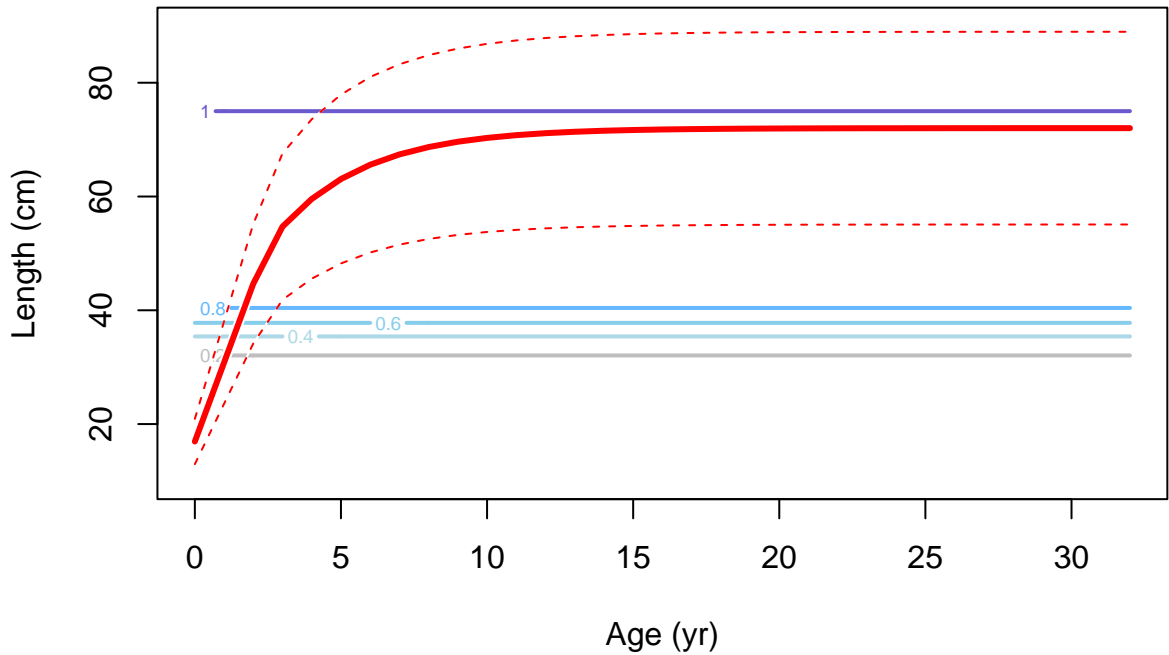


Selectivity

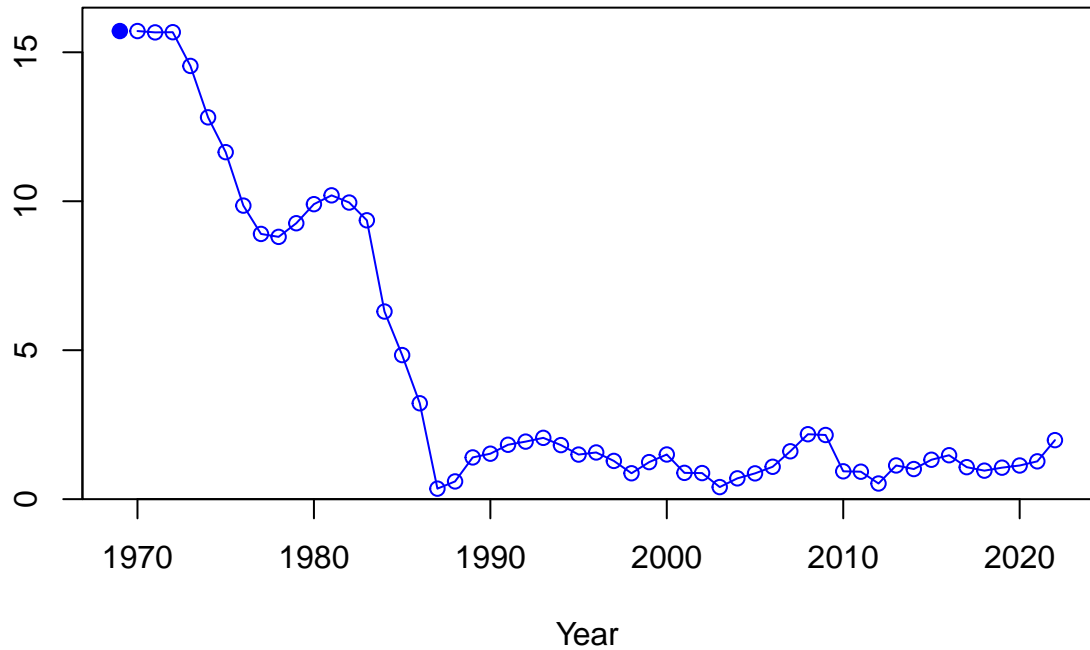


Selectivity

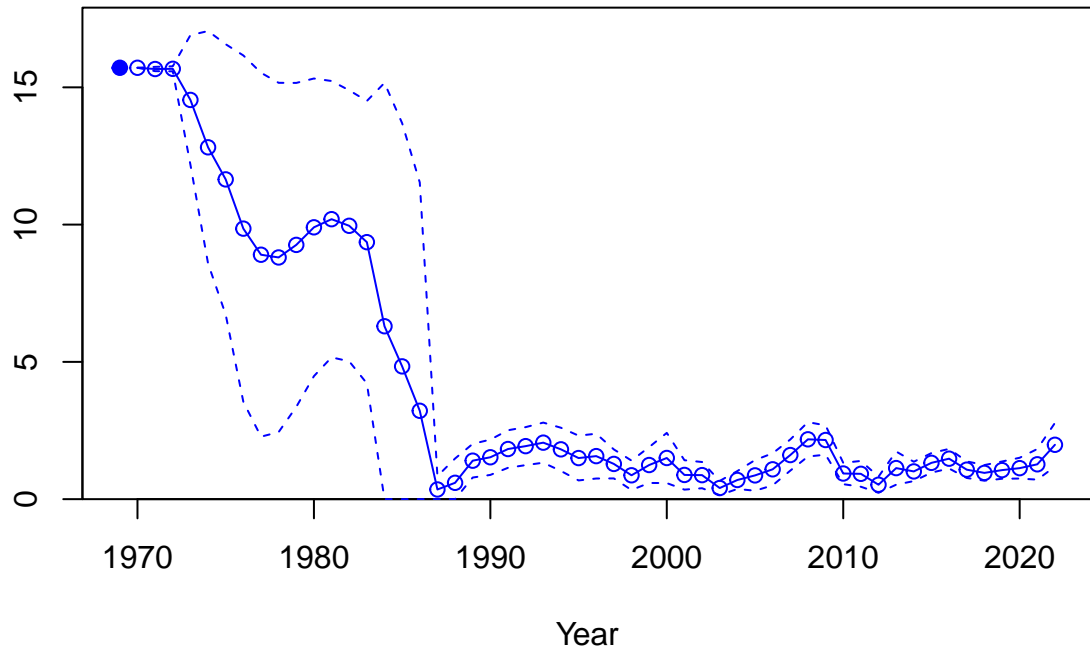




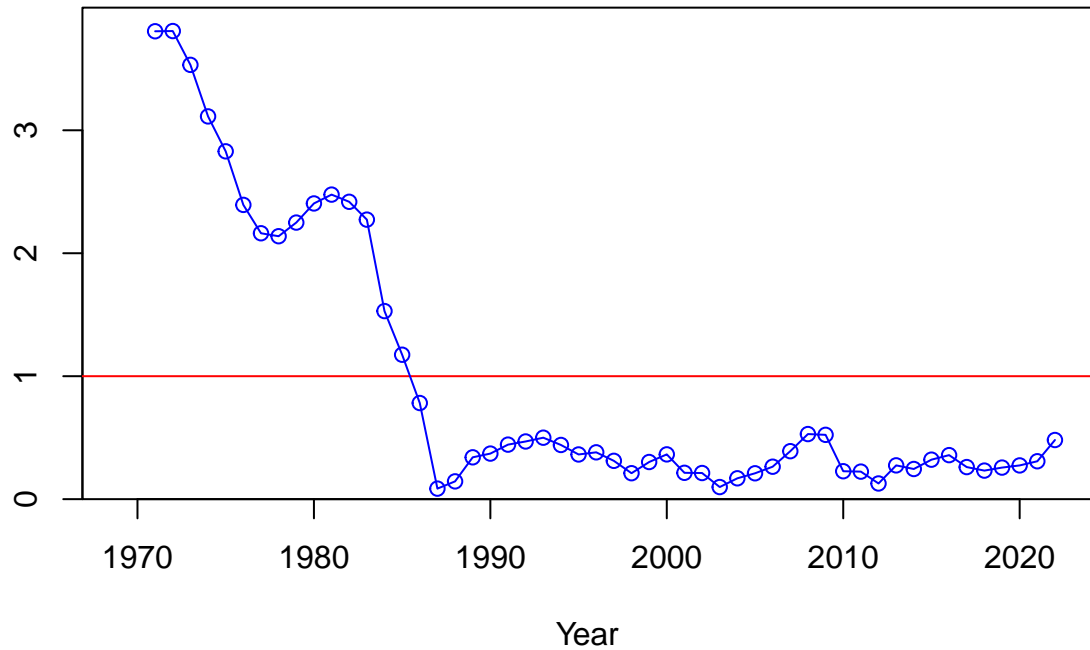
Spawning biomass (mt)



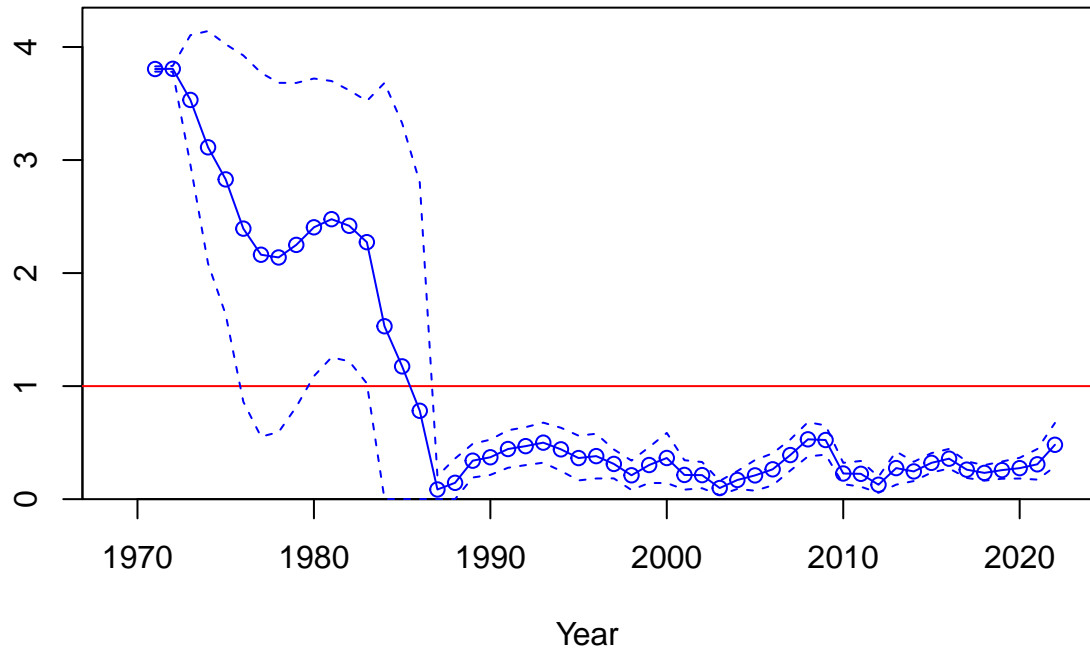
Spawning biomass (mt)

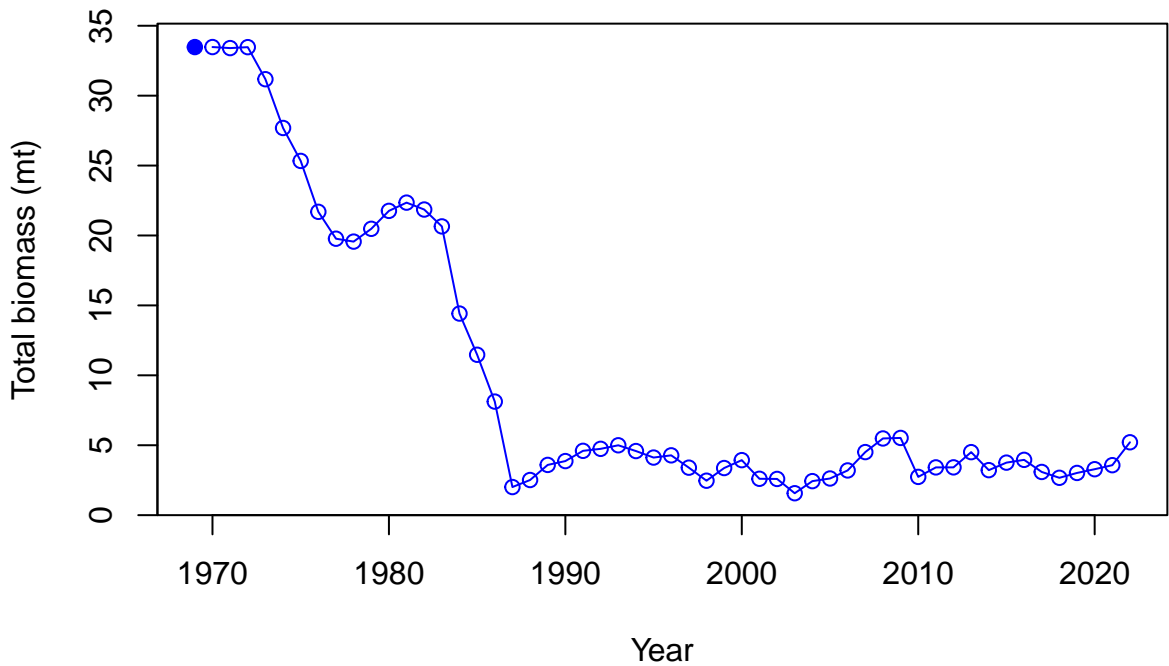


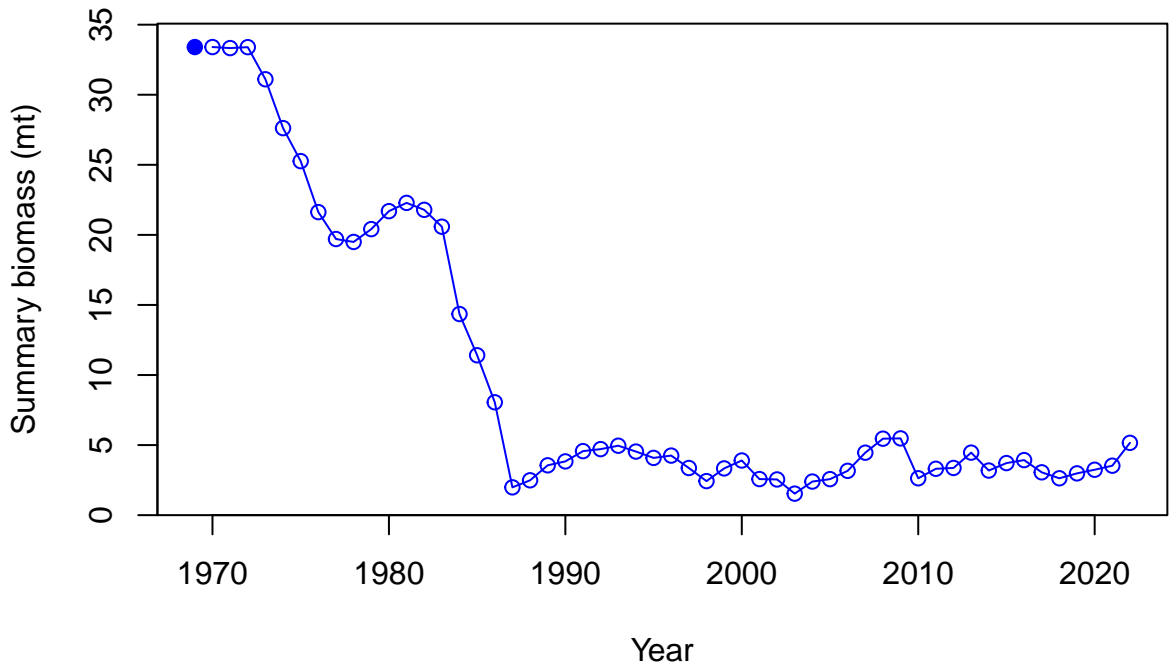
Relative spawning biomass: B/B_{MSY}



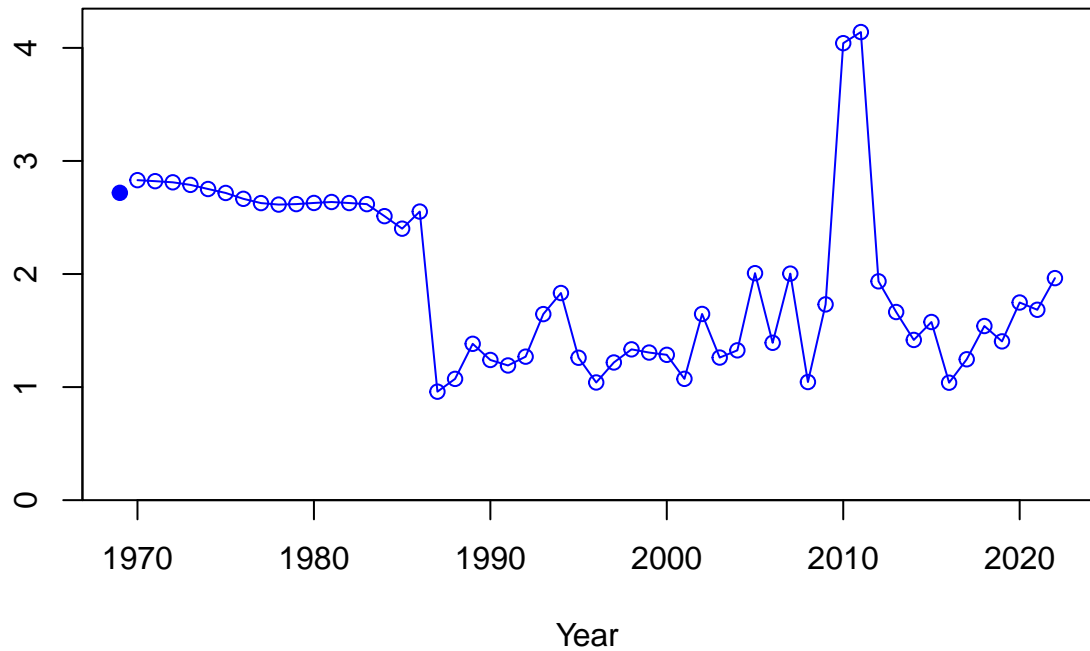
Relative spawning biomass: B/B_{MSY}



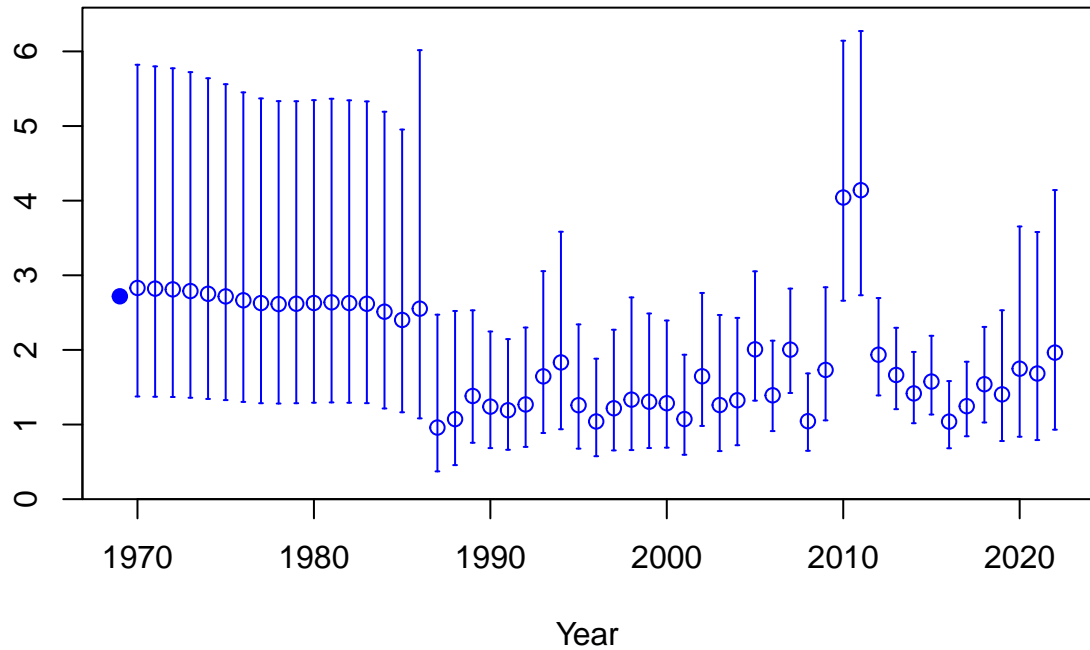




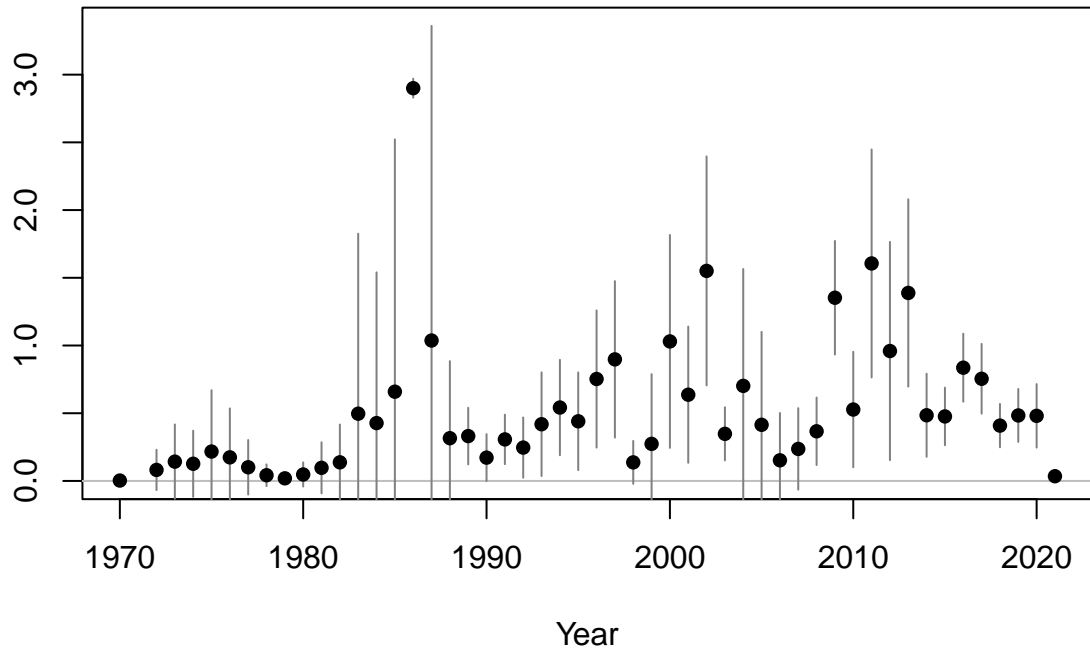
Age-0 recruits (1,000s)

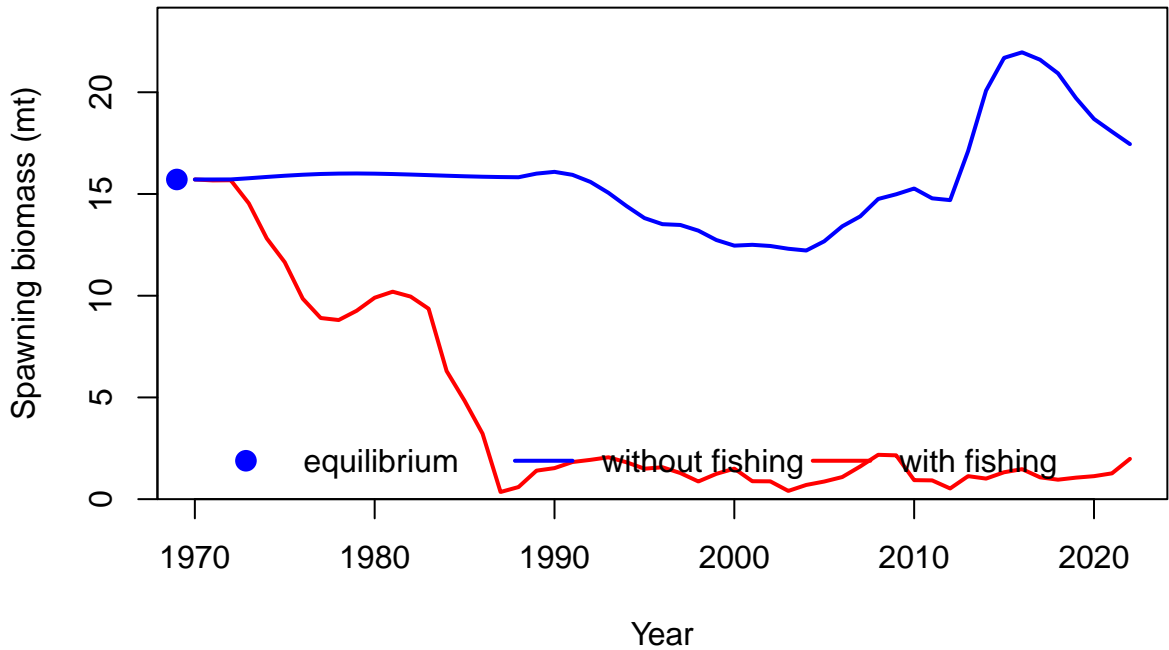


Age-0 recruits (1,000s)

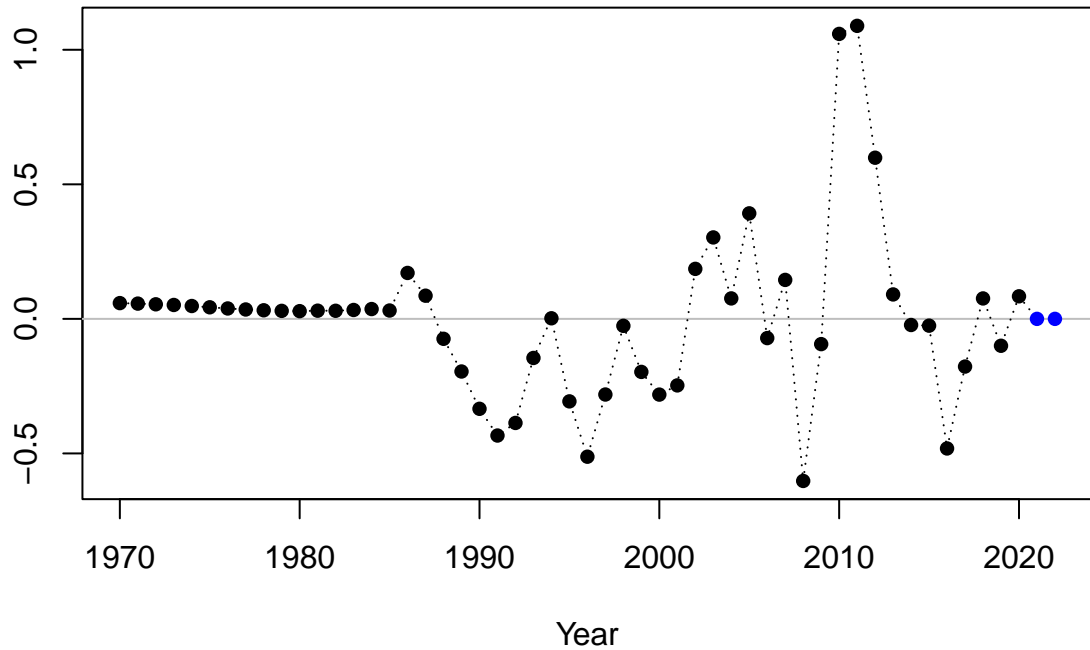


Summary Fishing Mortality

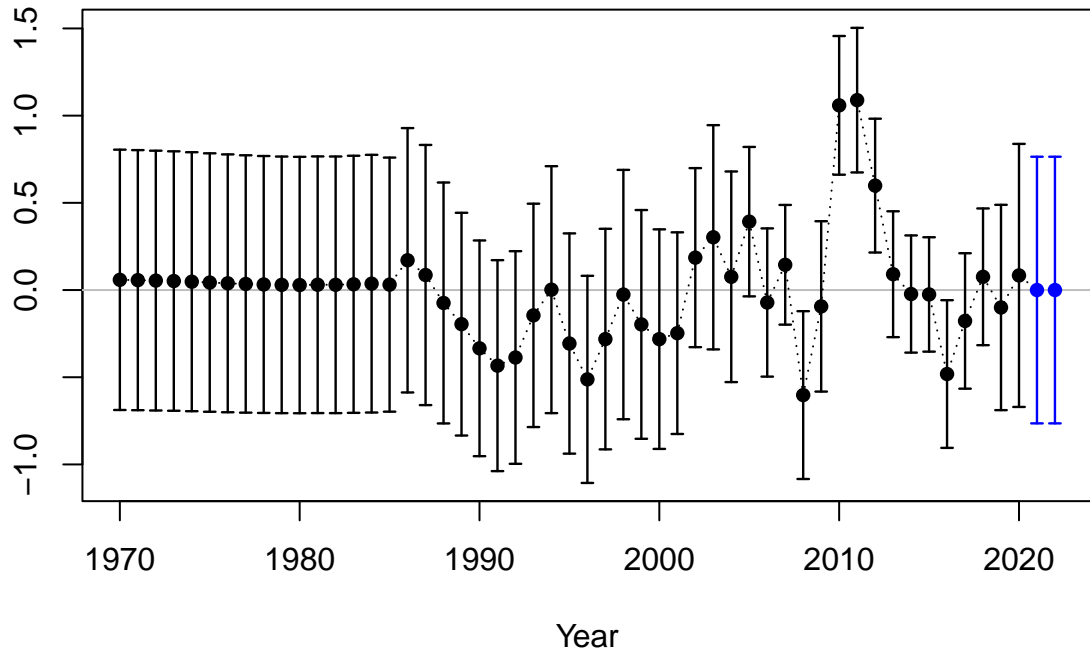




Log recruitment deviation

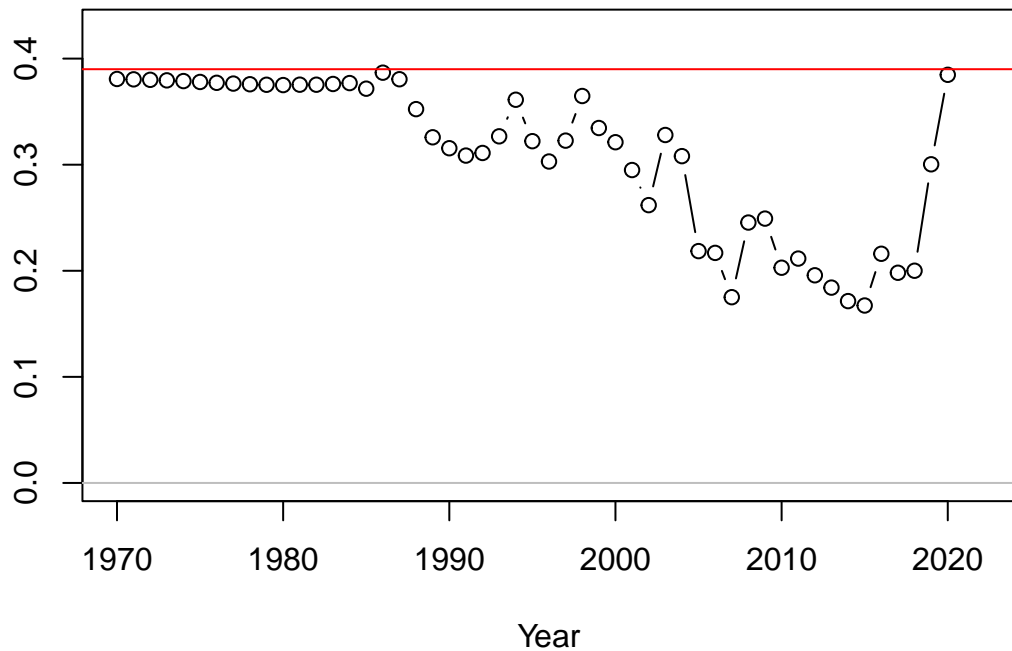


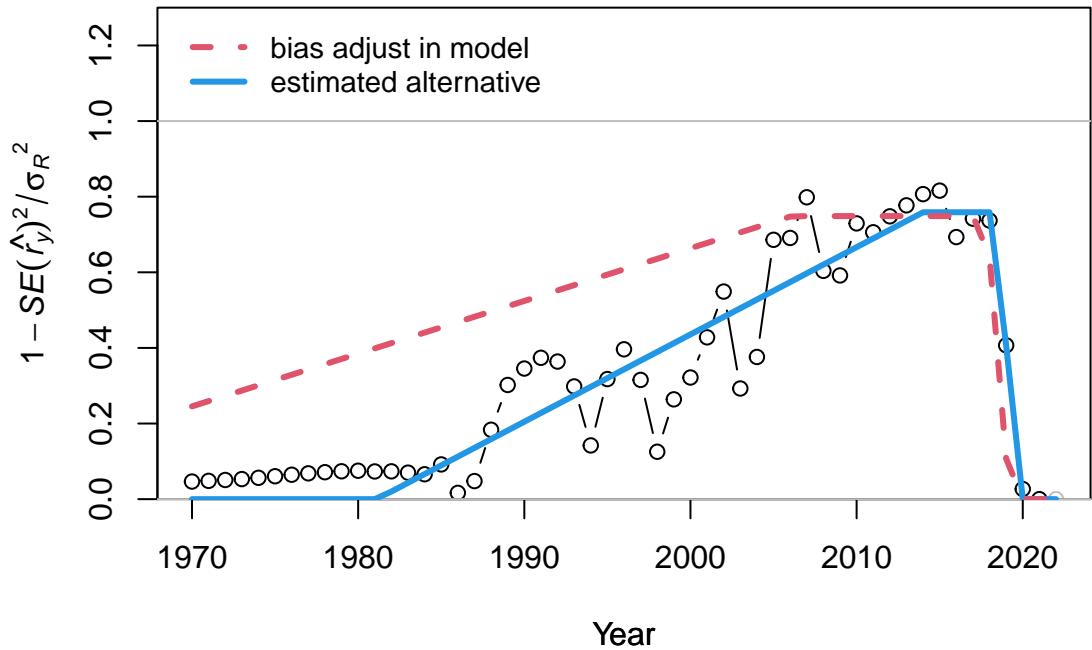
Log recruitment deviation

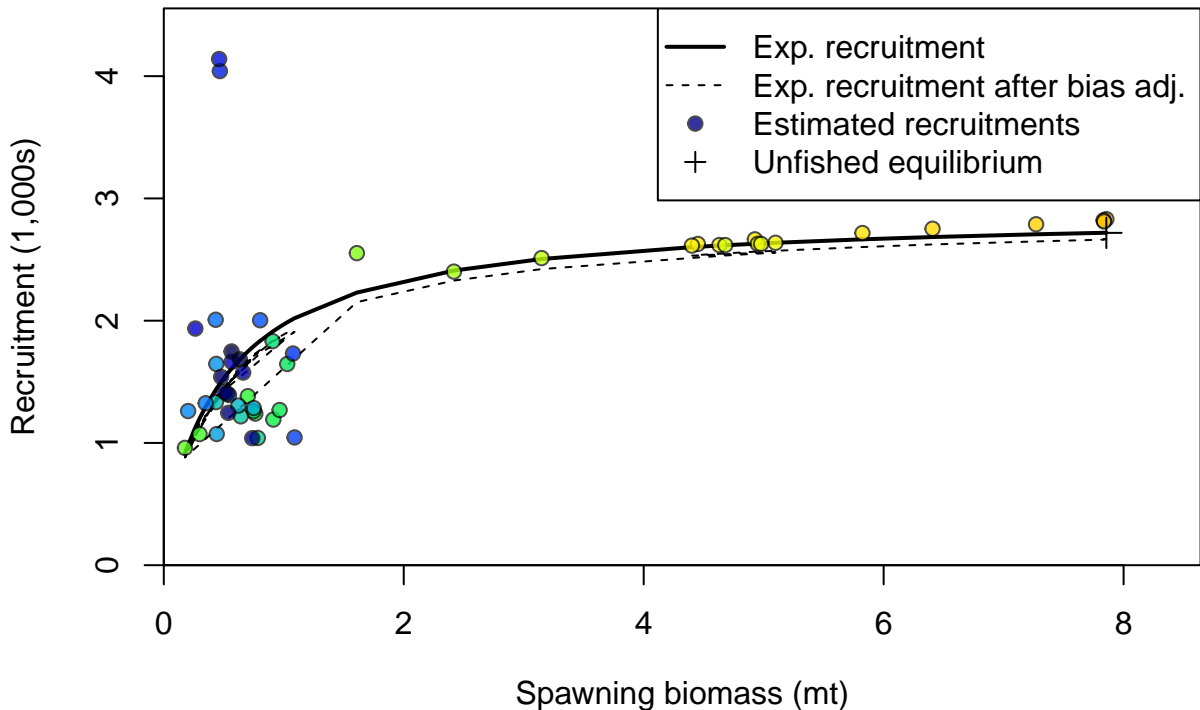


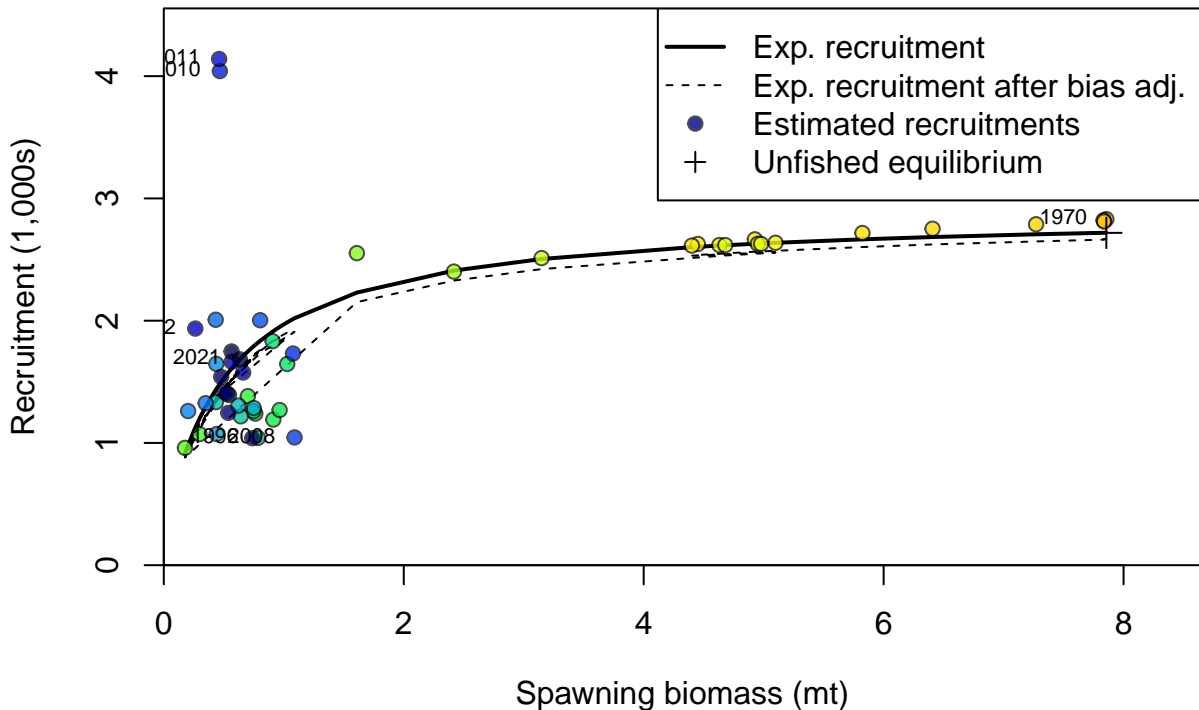
Recruitment deviation variance

Asymptotic standard error estimate

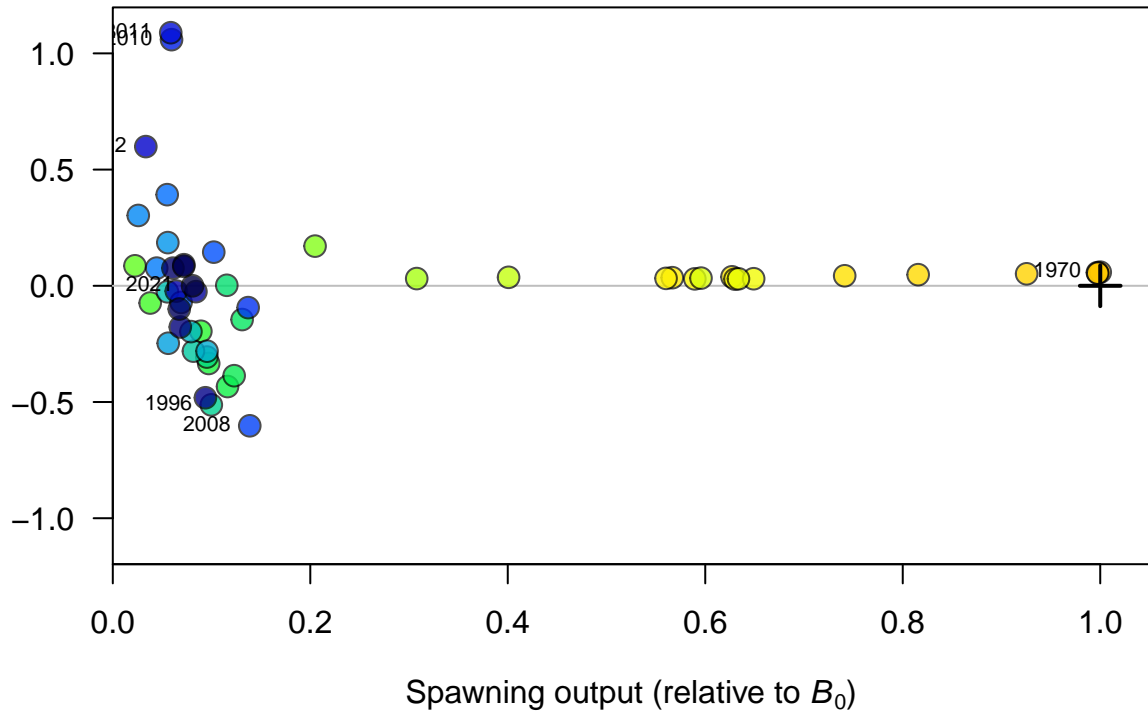


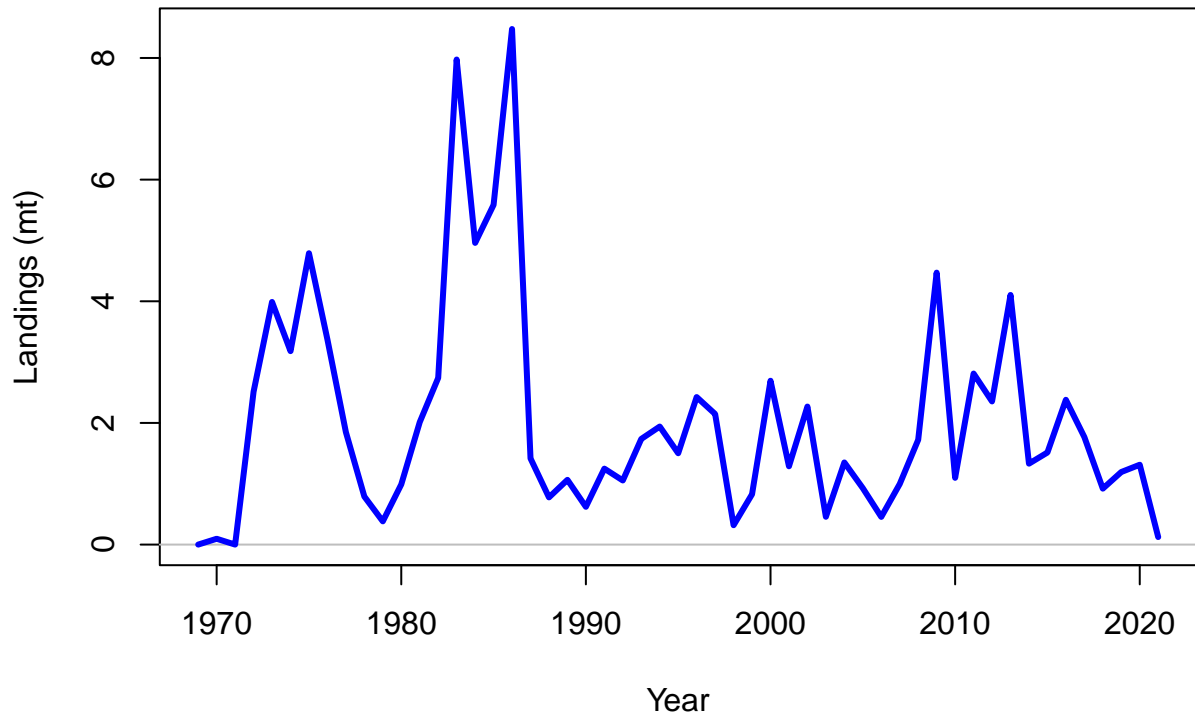


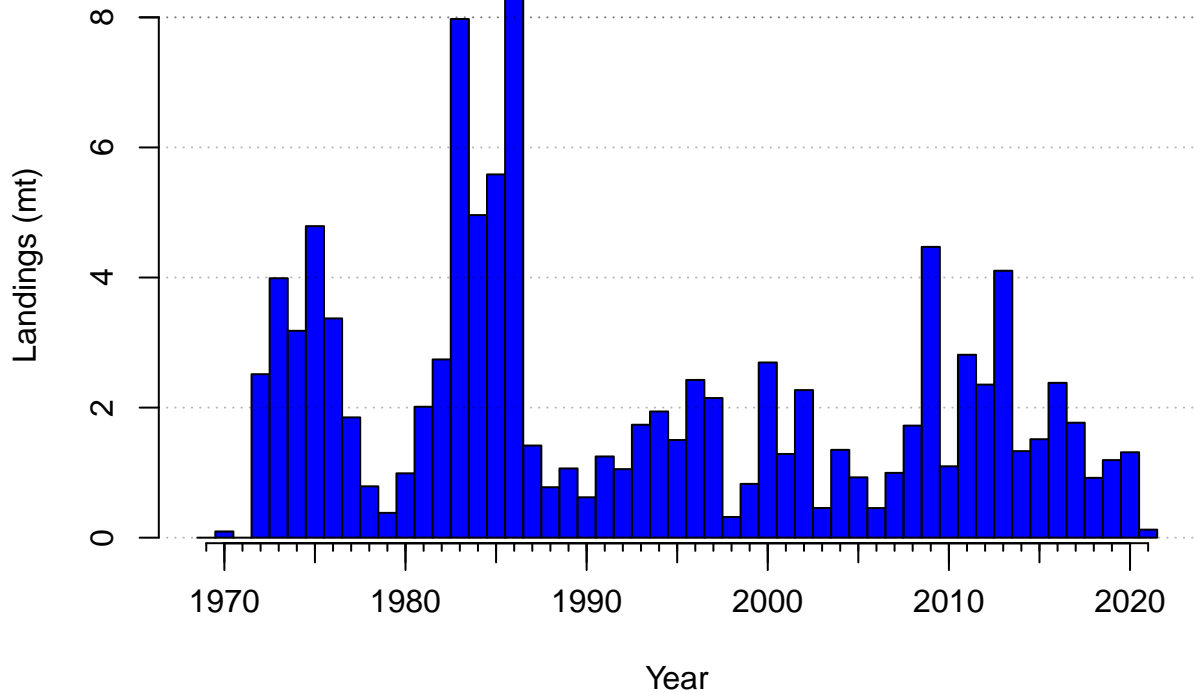




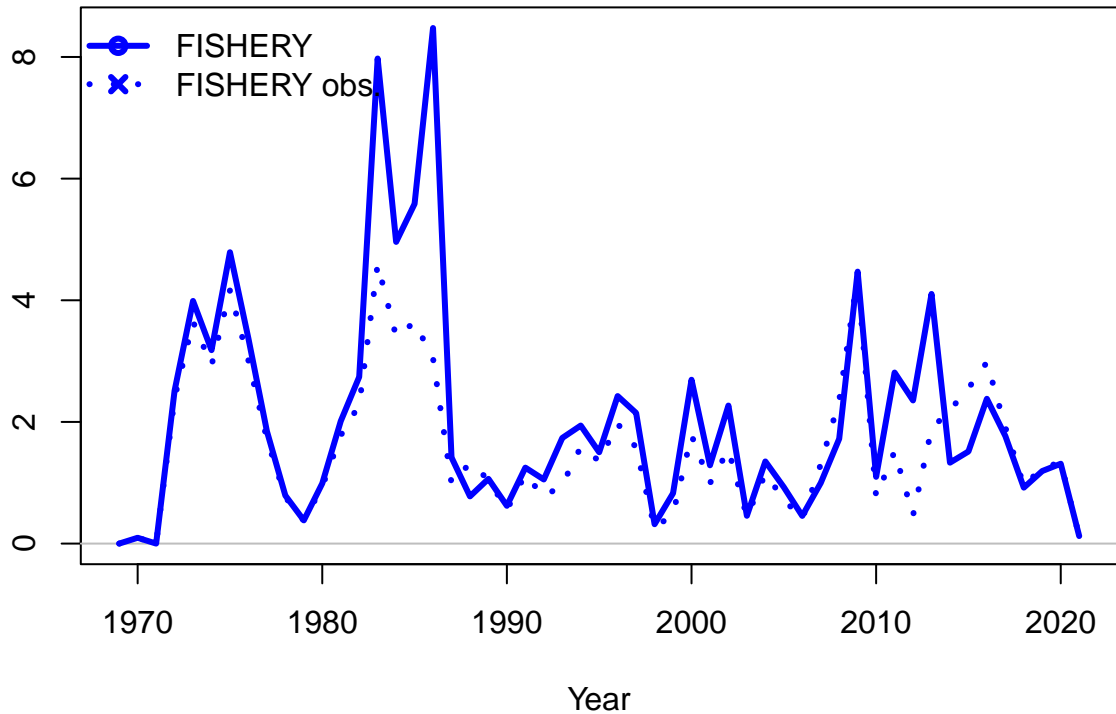
Log recruitment deviation

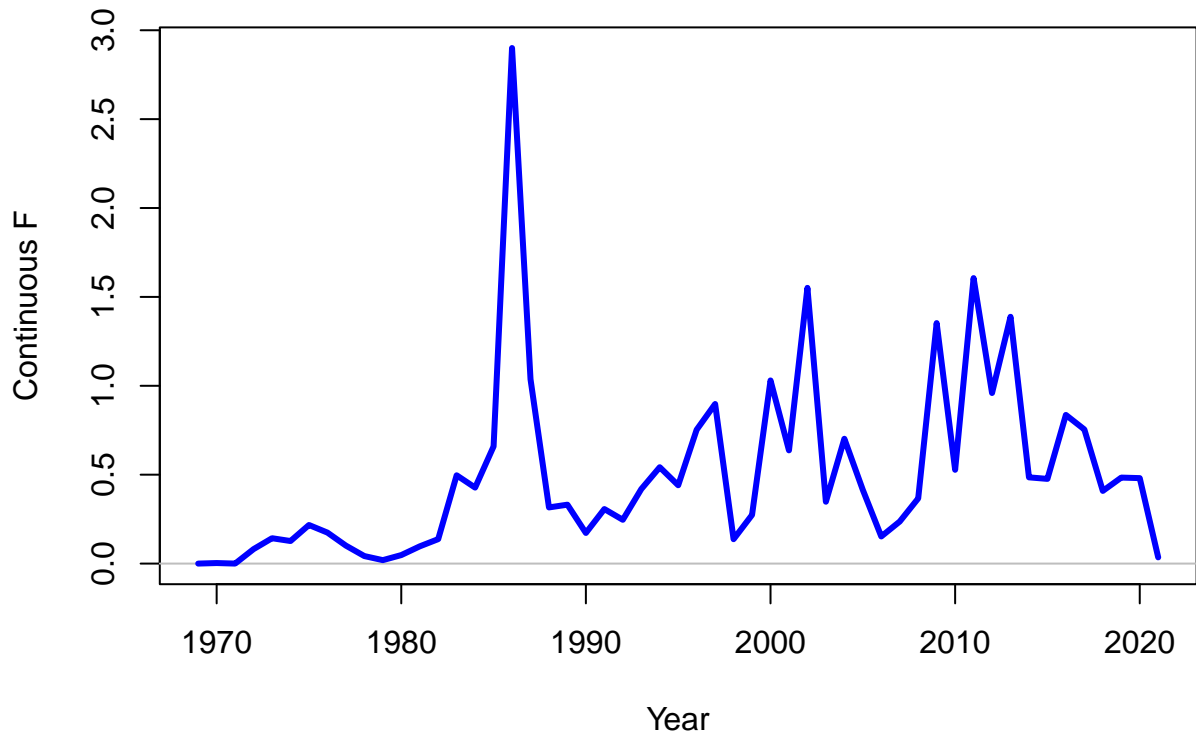




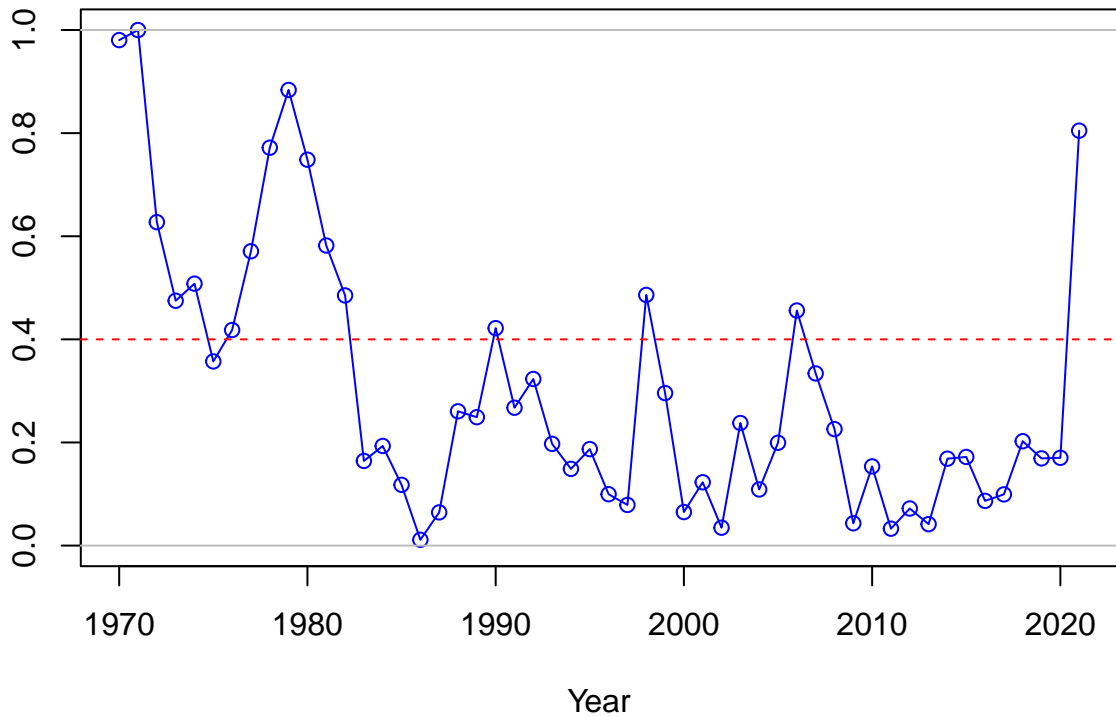


Observed and expected Landings (mt)

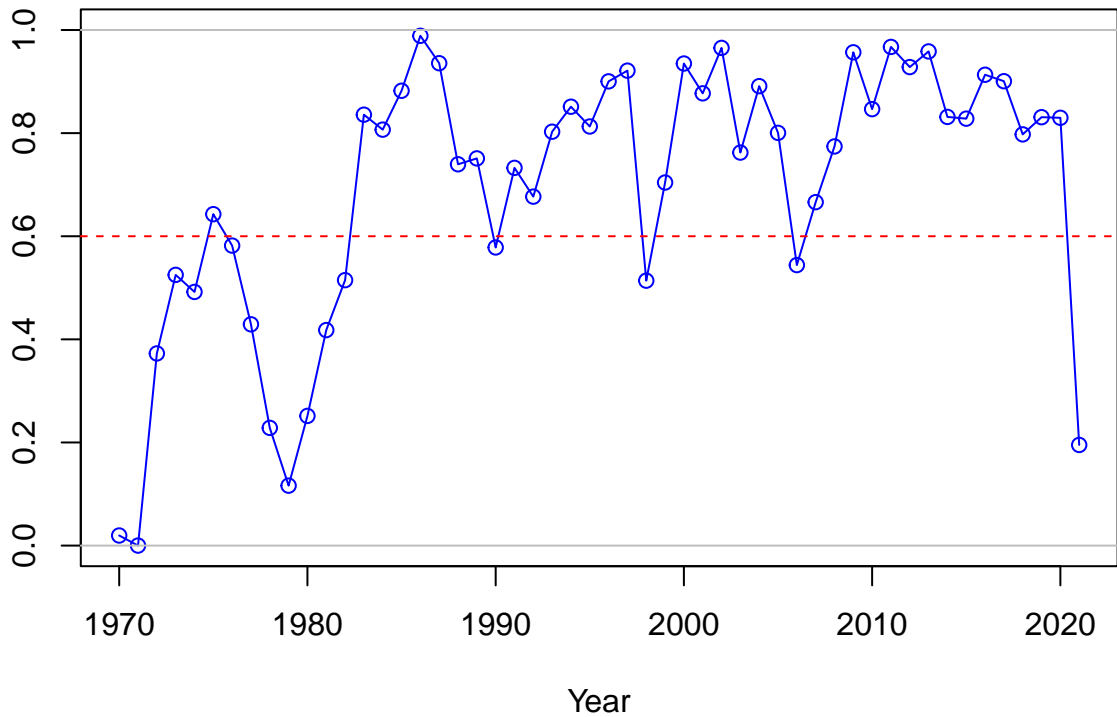




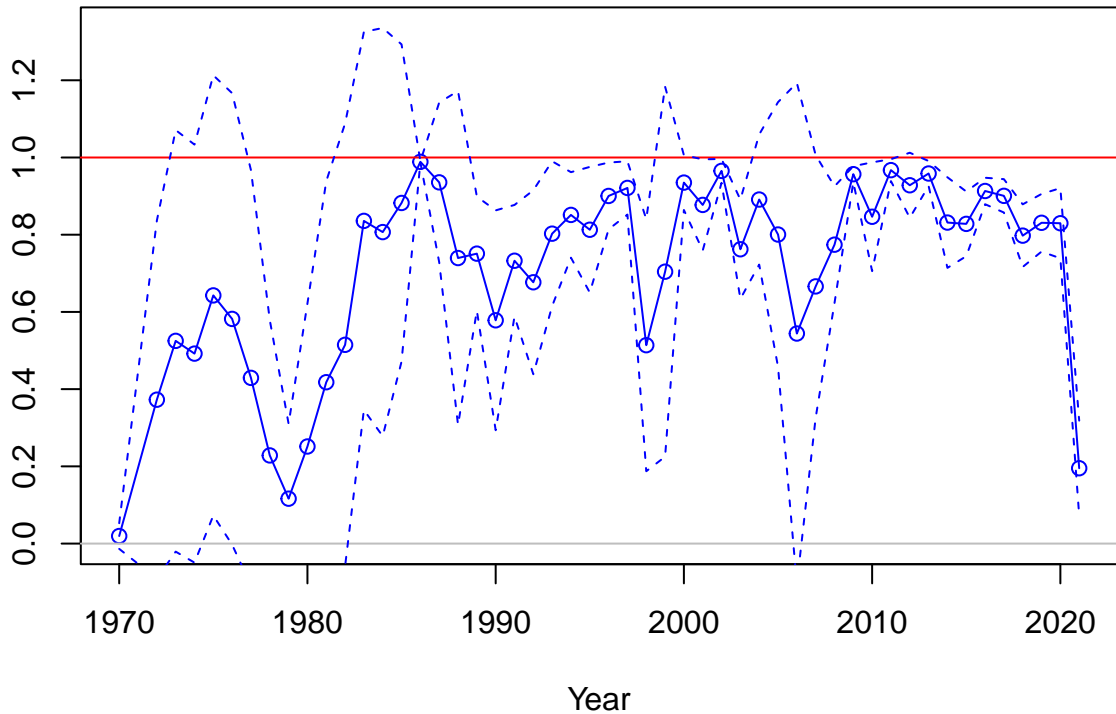
SPR



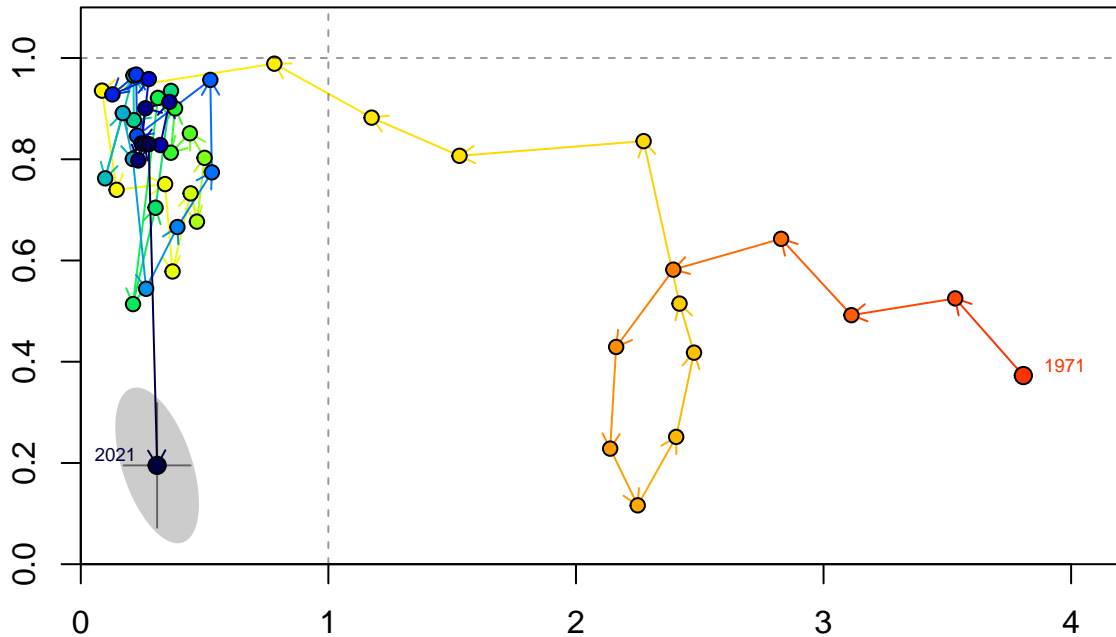
1-SPR



Fishing intensity: 1-SPR

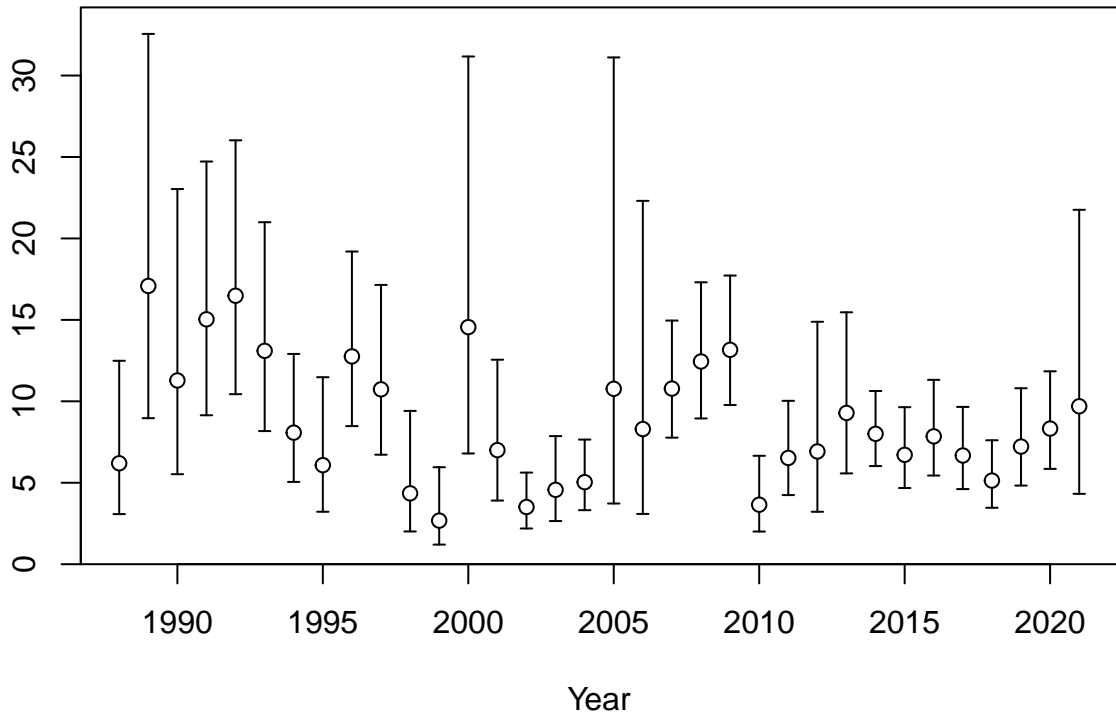


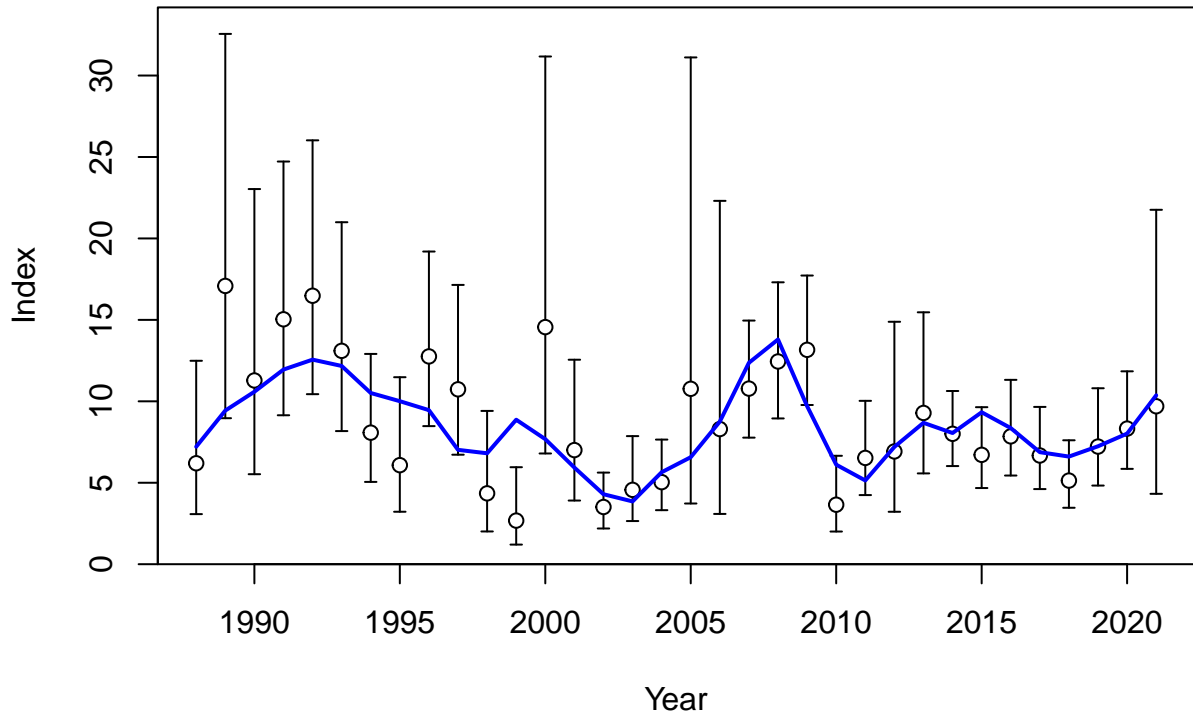
Fishing intensity: 1-SPR

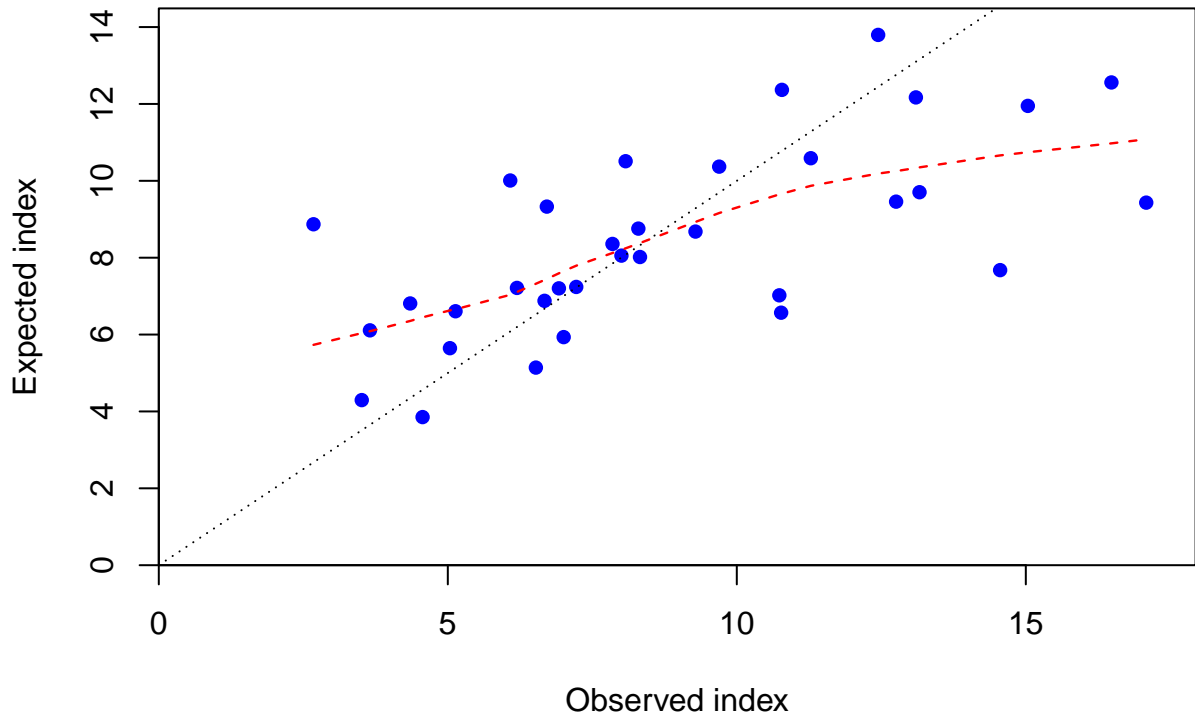


Relative spawning output: B/B_{MSY}

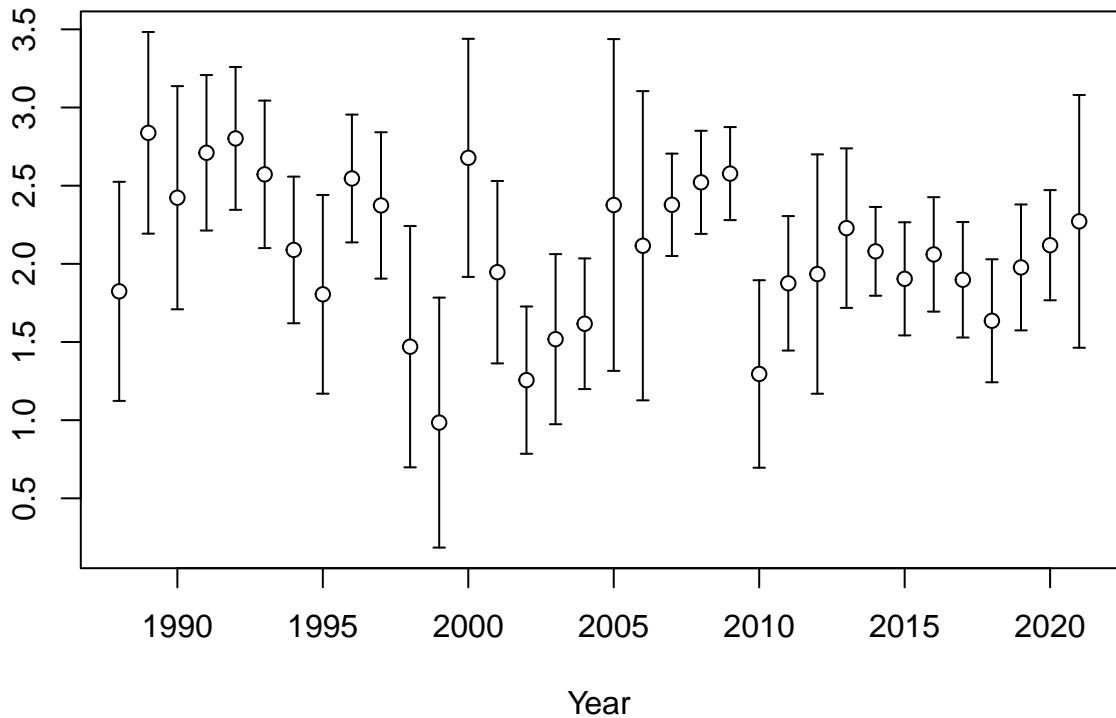
Index



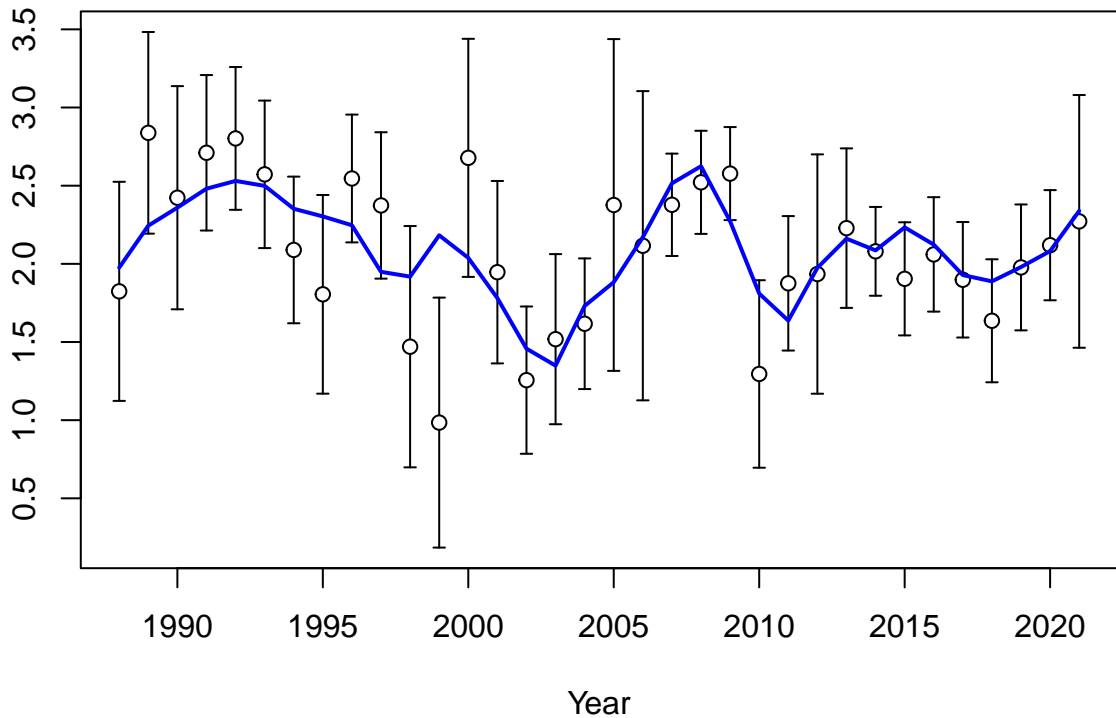


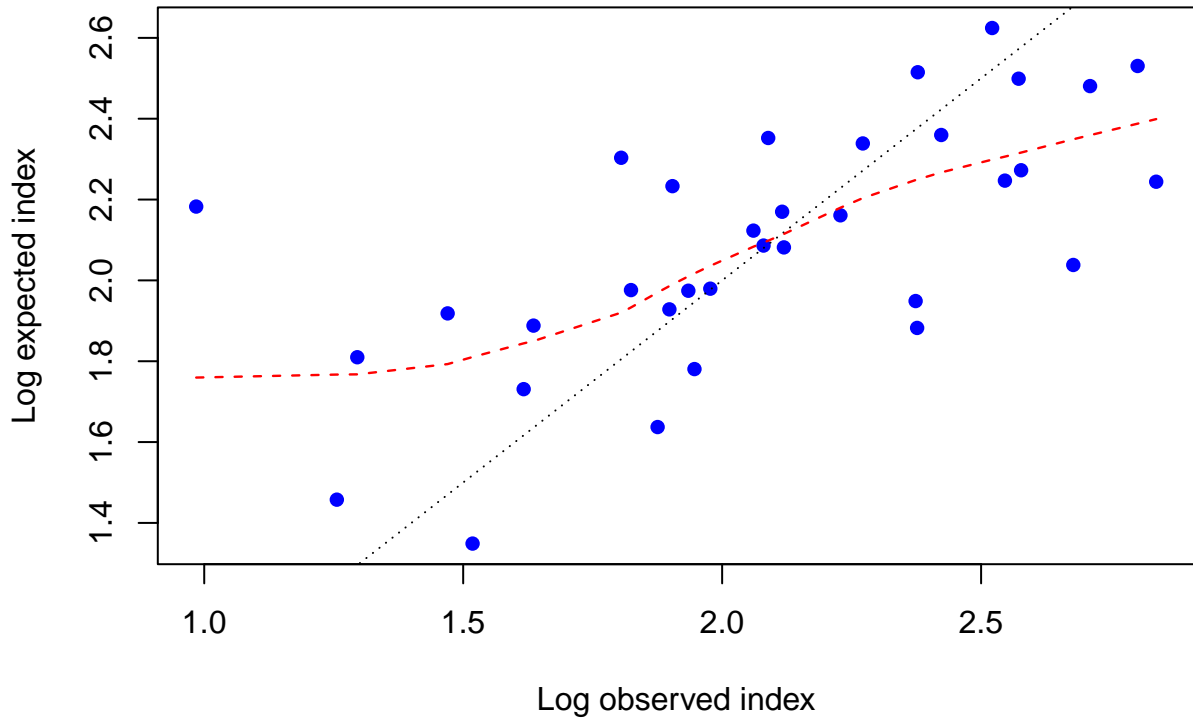


Log index

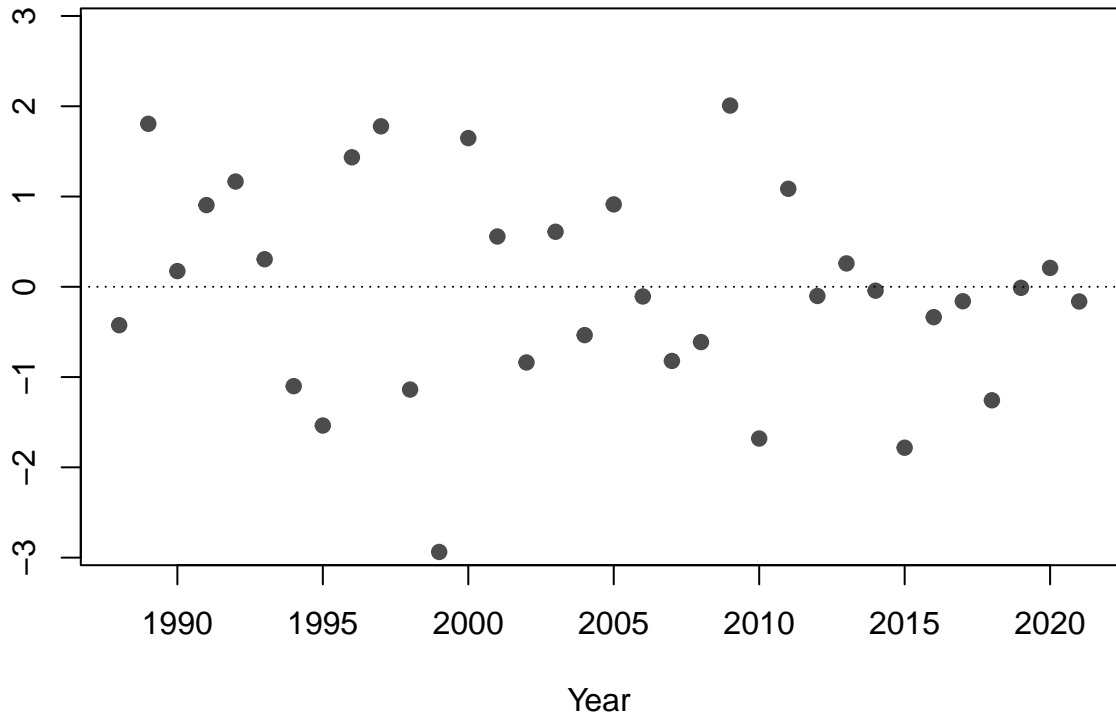


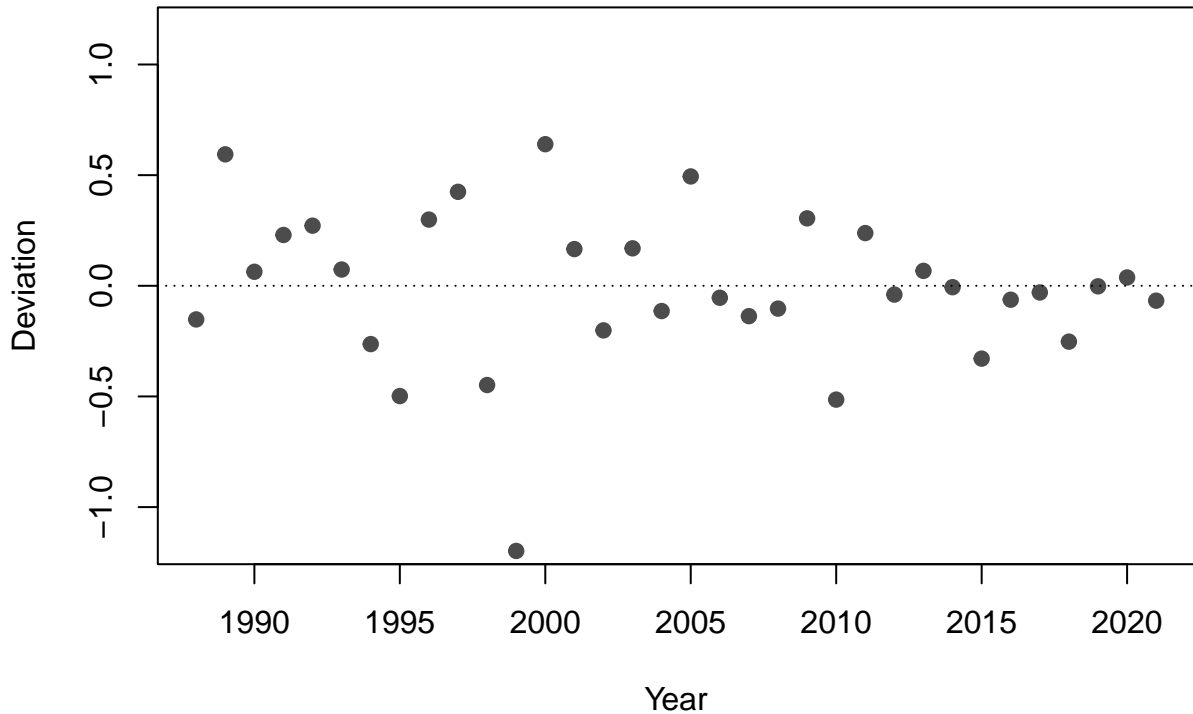
Log index



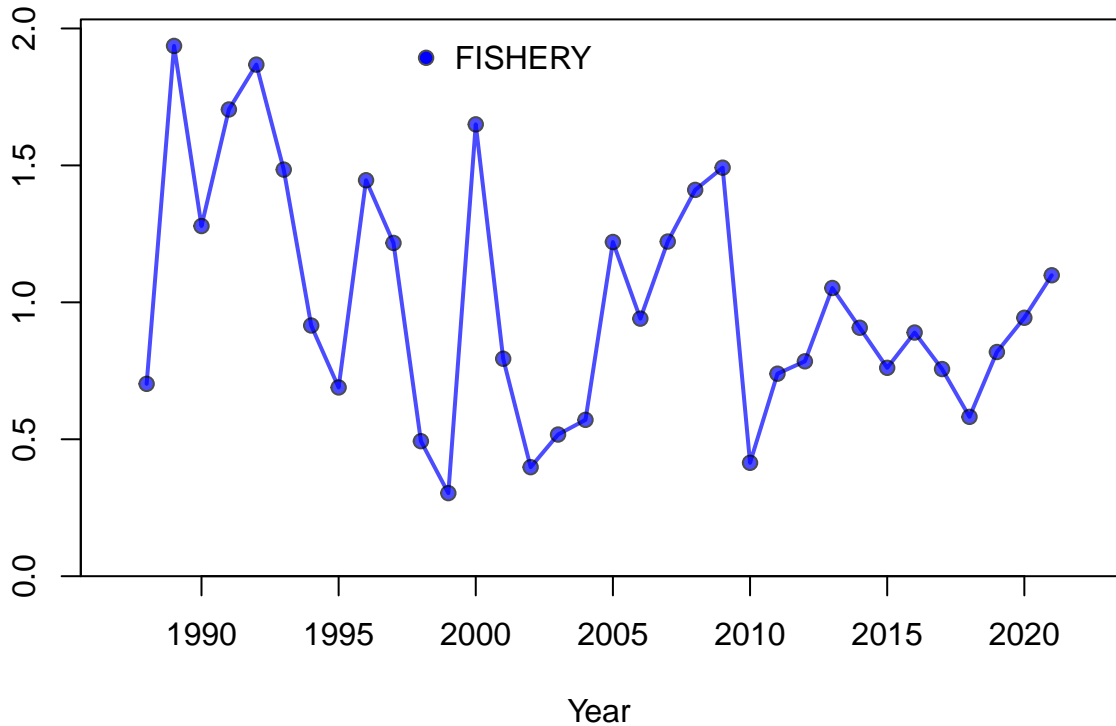


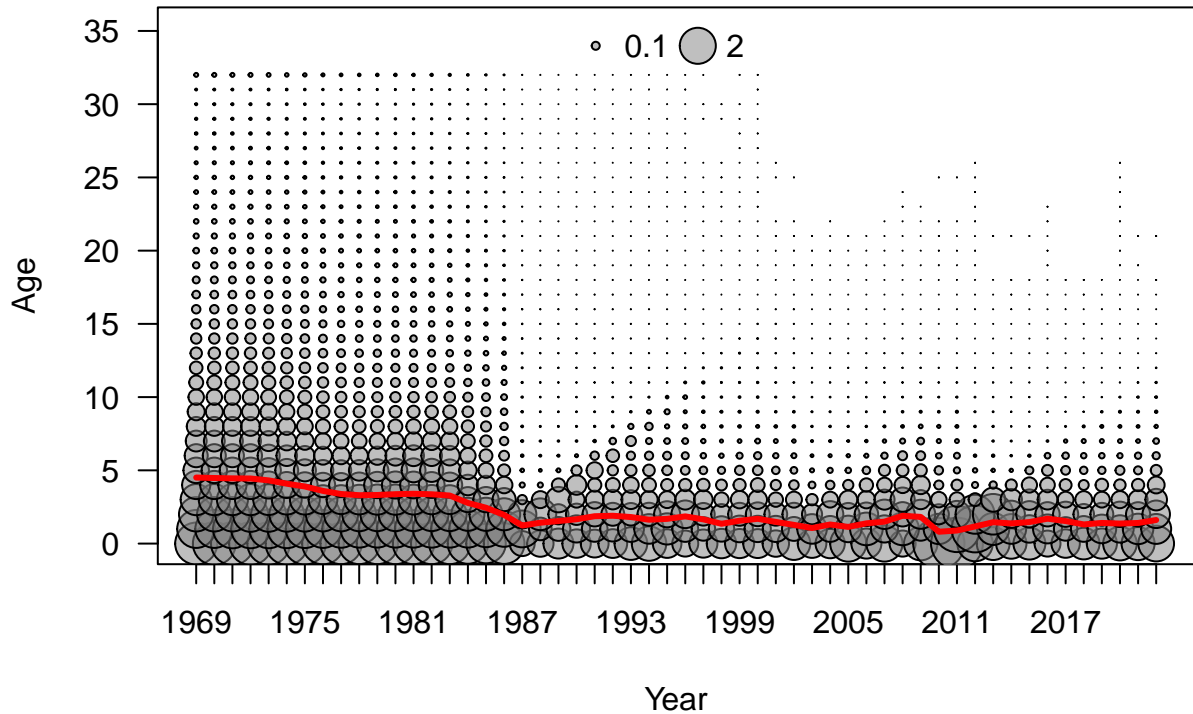
Residual

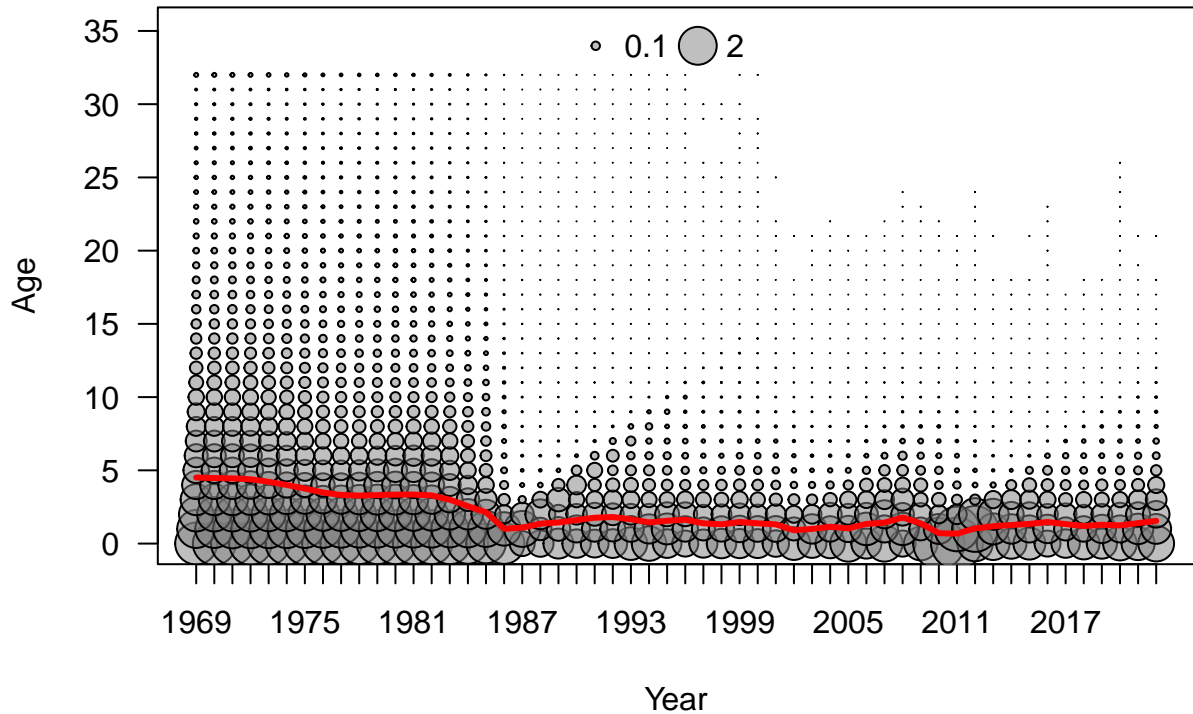




Standardized index

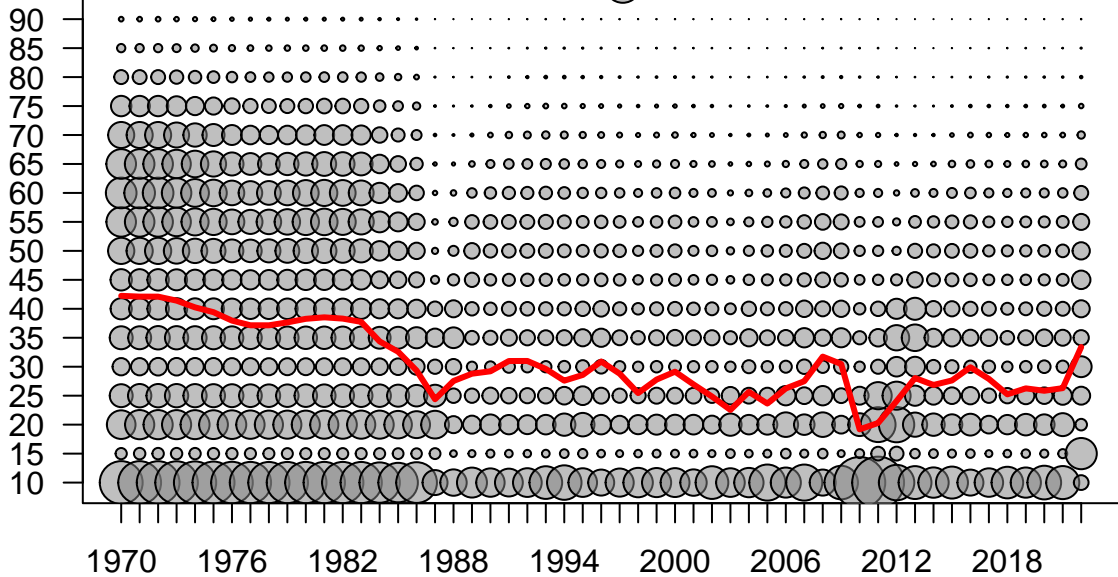






Length

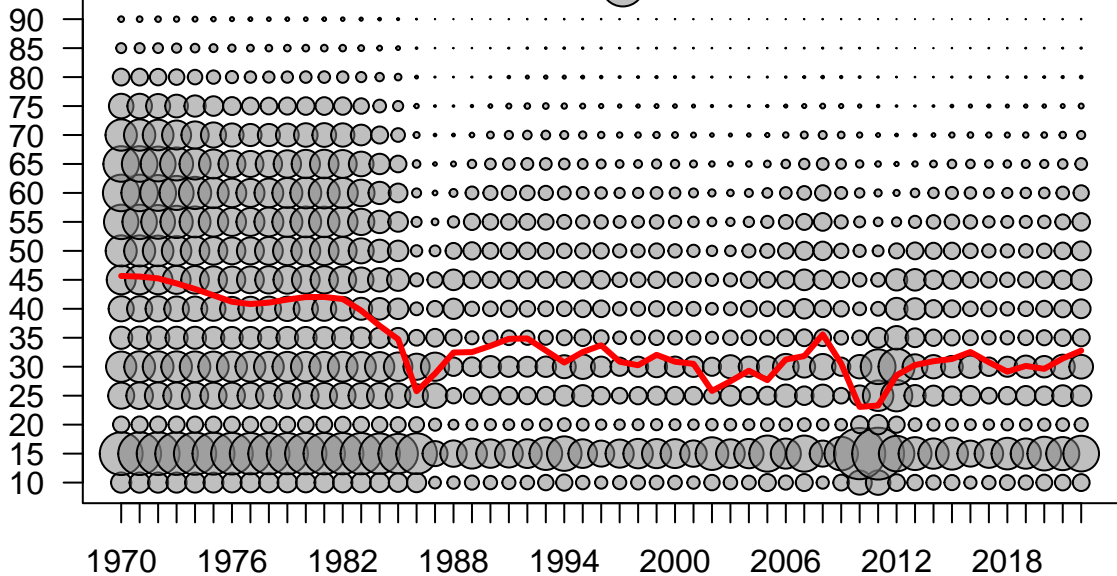
◦ 0.1 ● 2



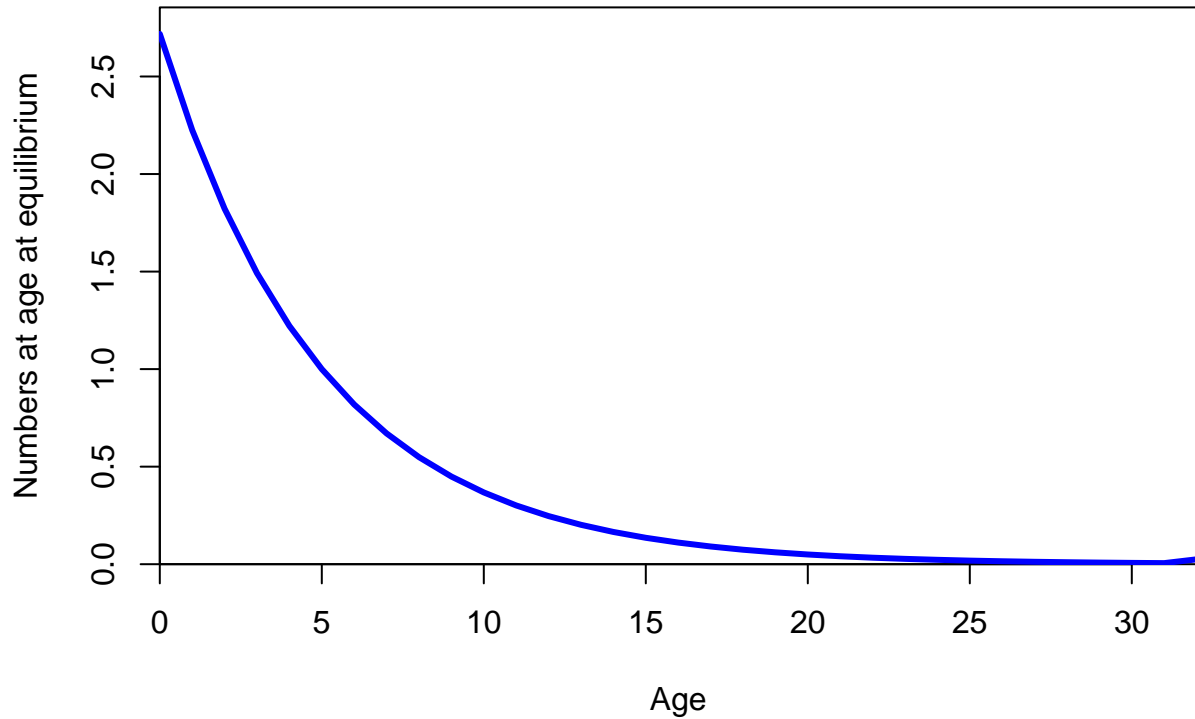
Year

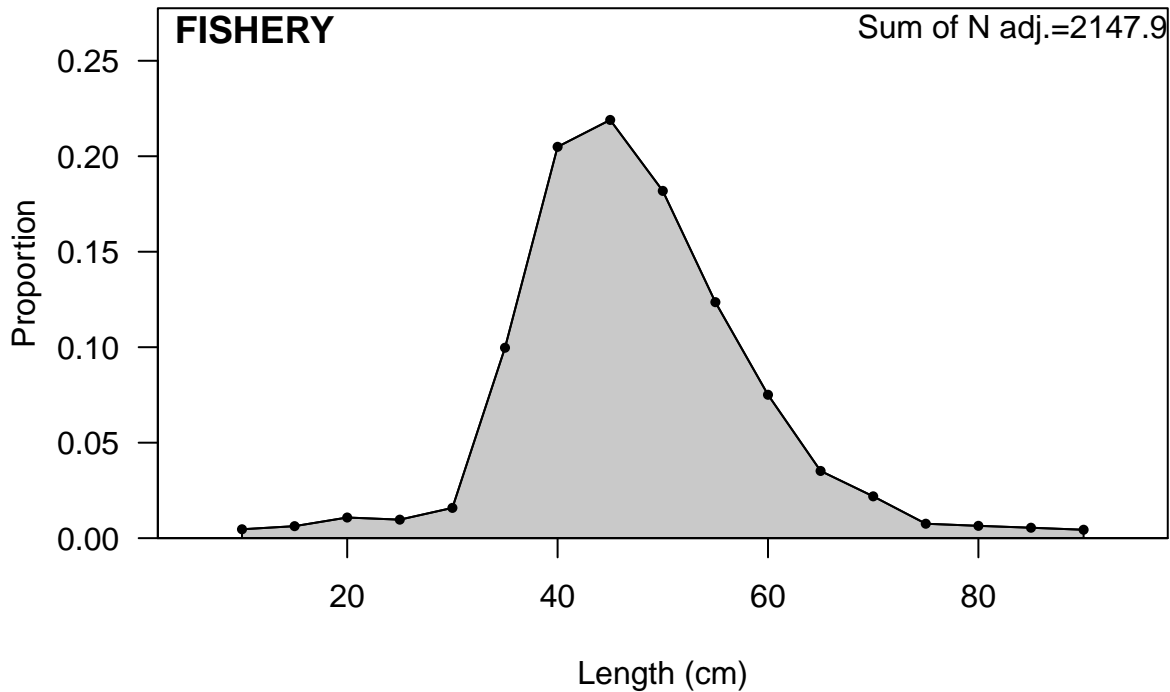
Length

○ 0.1 ● 2



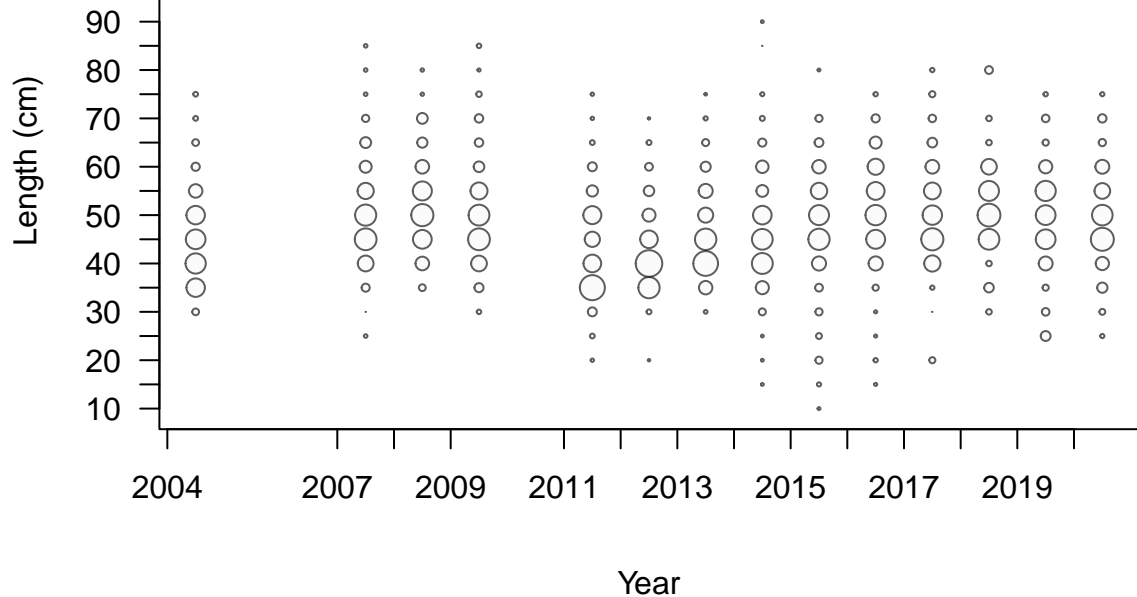
Year



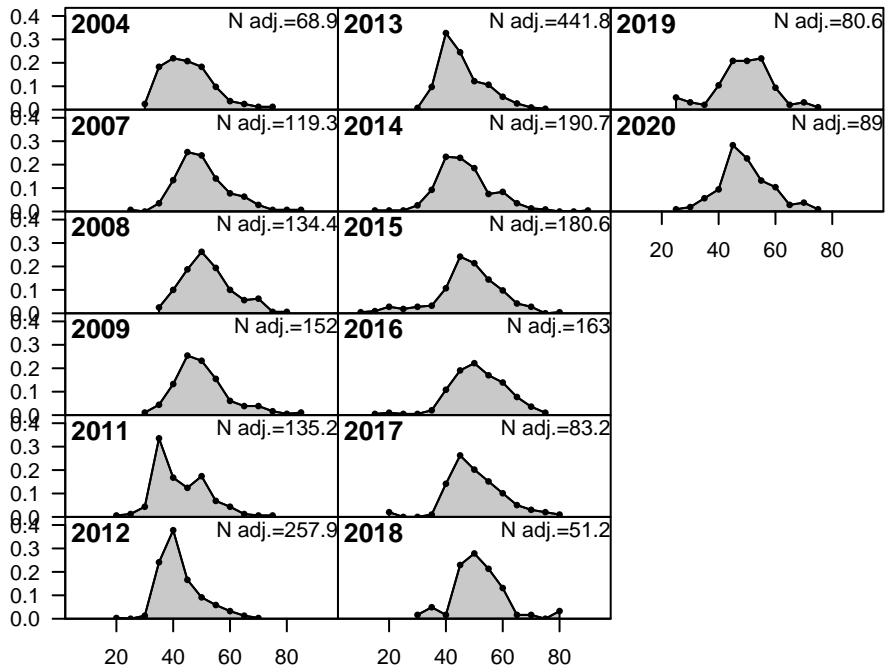


FISHERY

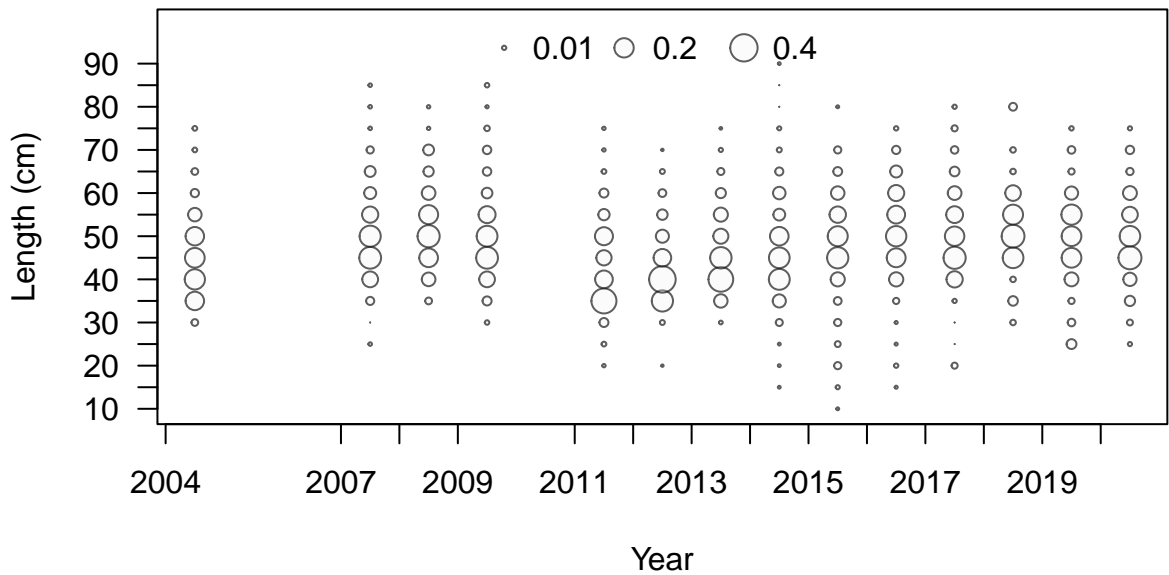
• 0.01 ○ 0.2 ○ 0.4



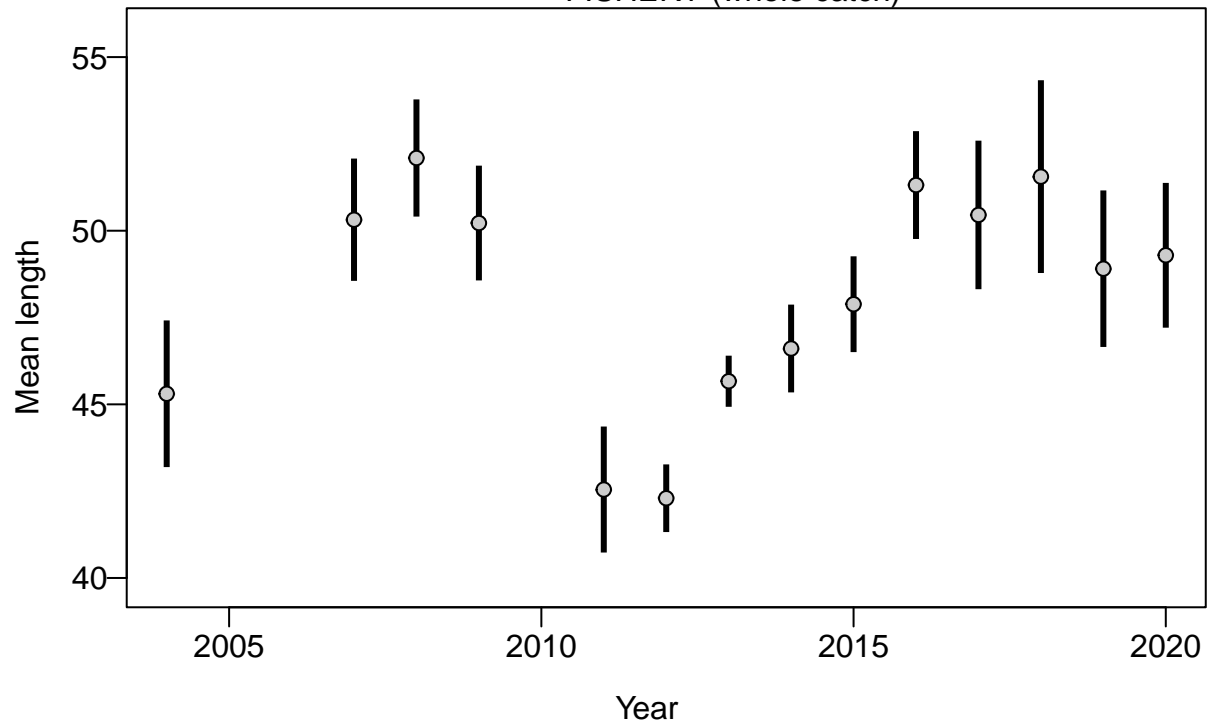
Proportion



Length (cm)

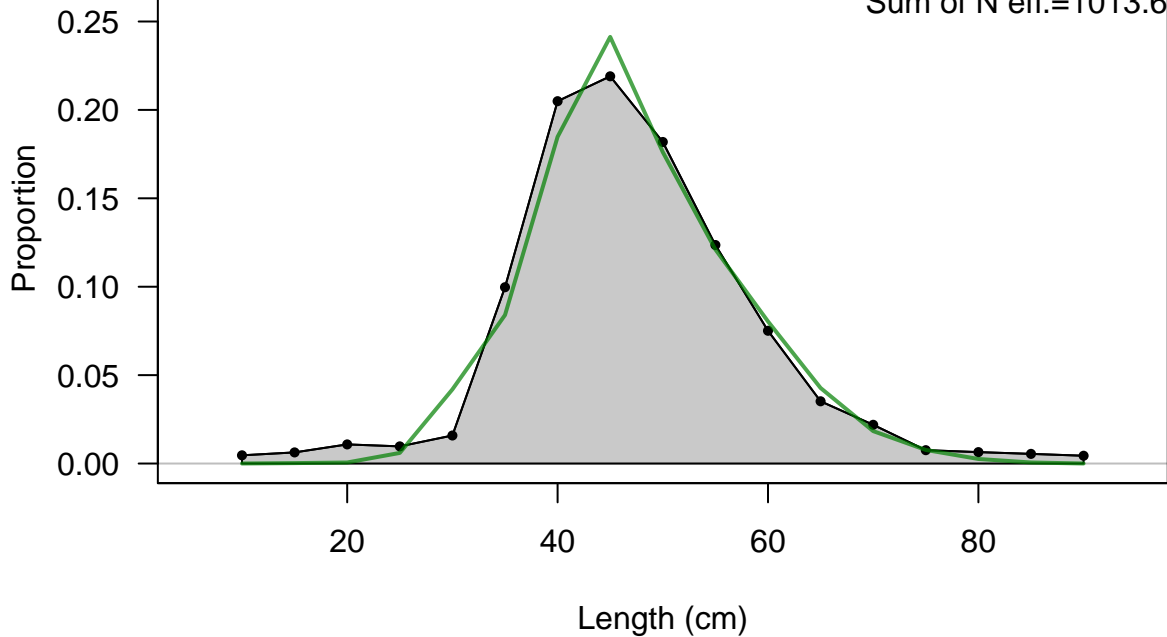


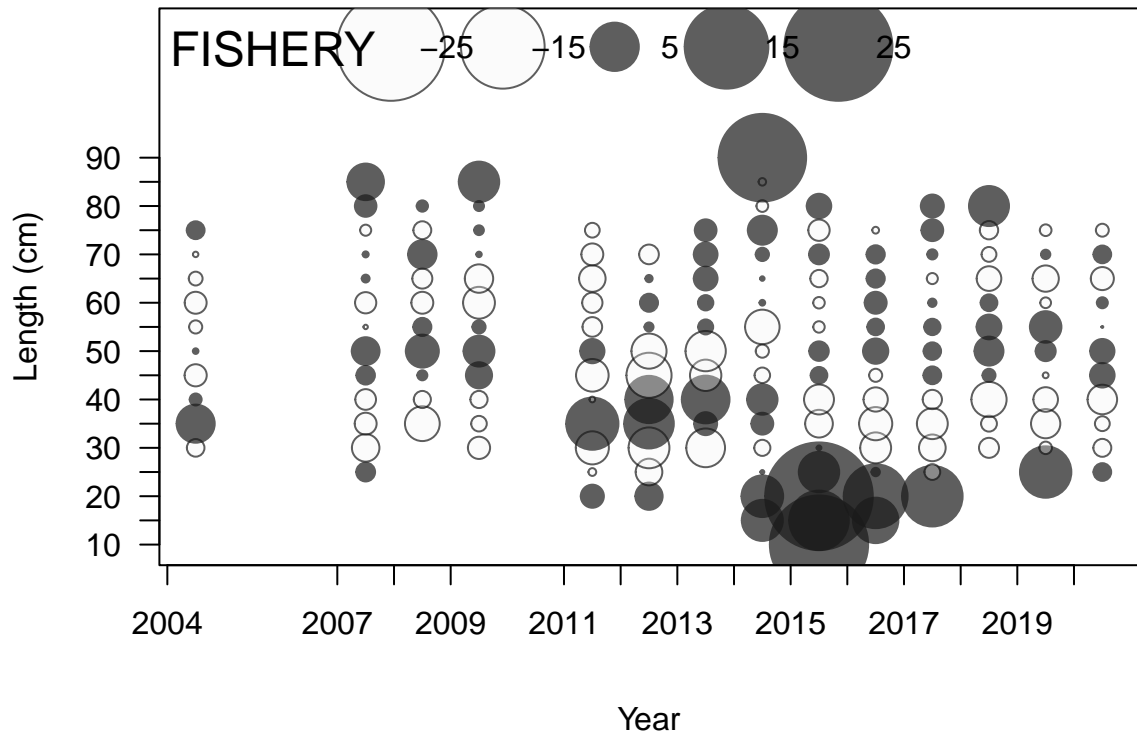
FISHERY (whole catch)



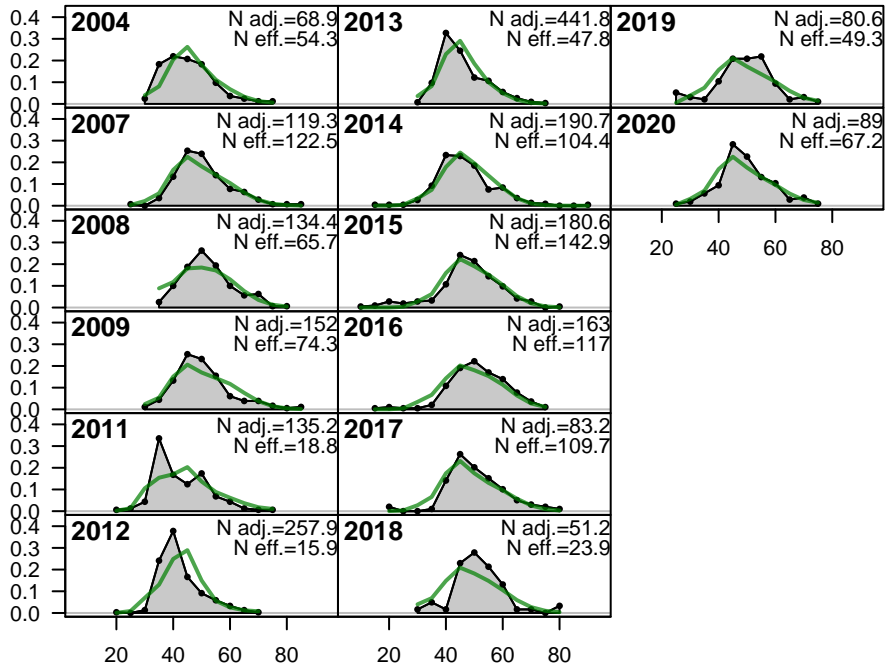
FISHERY

Sum of N adj.=2147.9
Sum of N eff.=1013.6

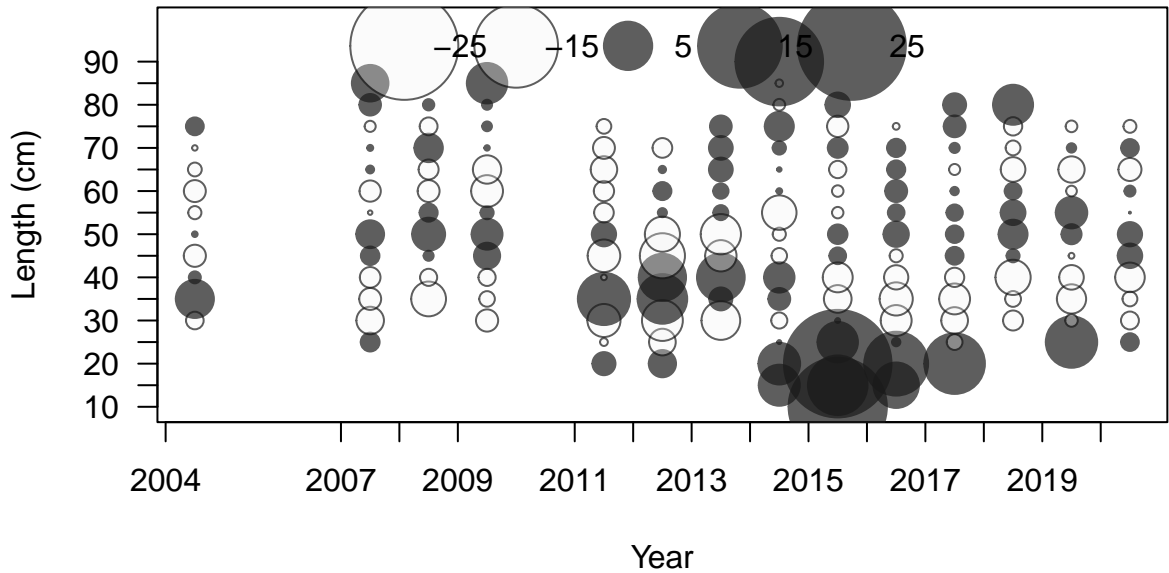




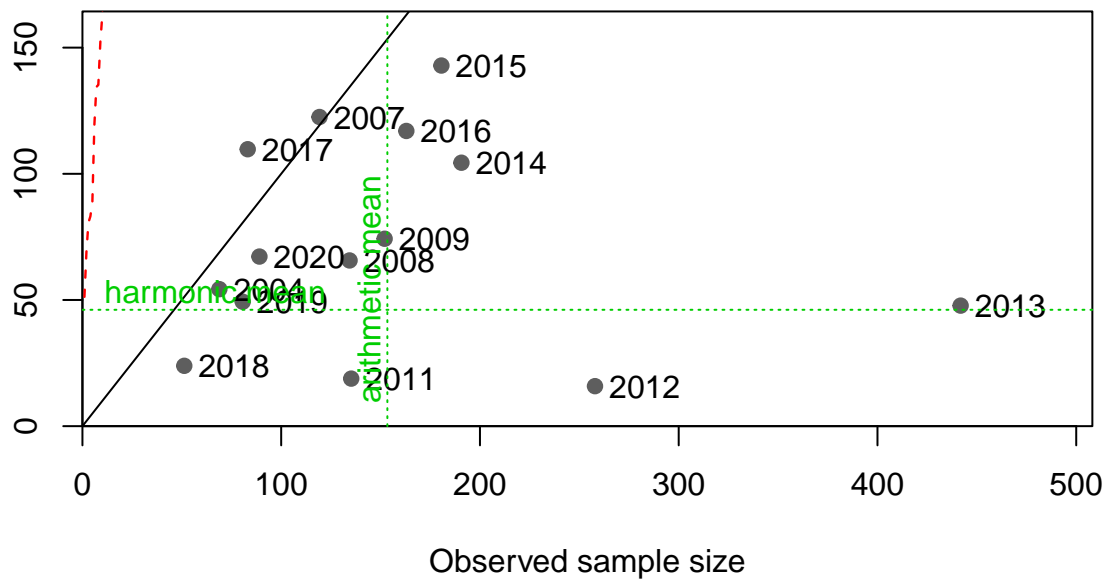
Proportion



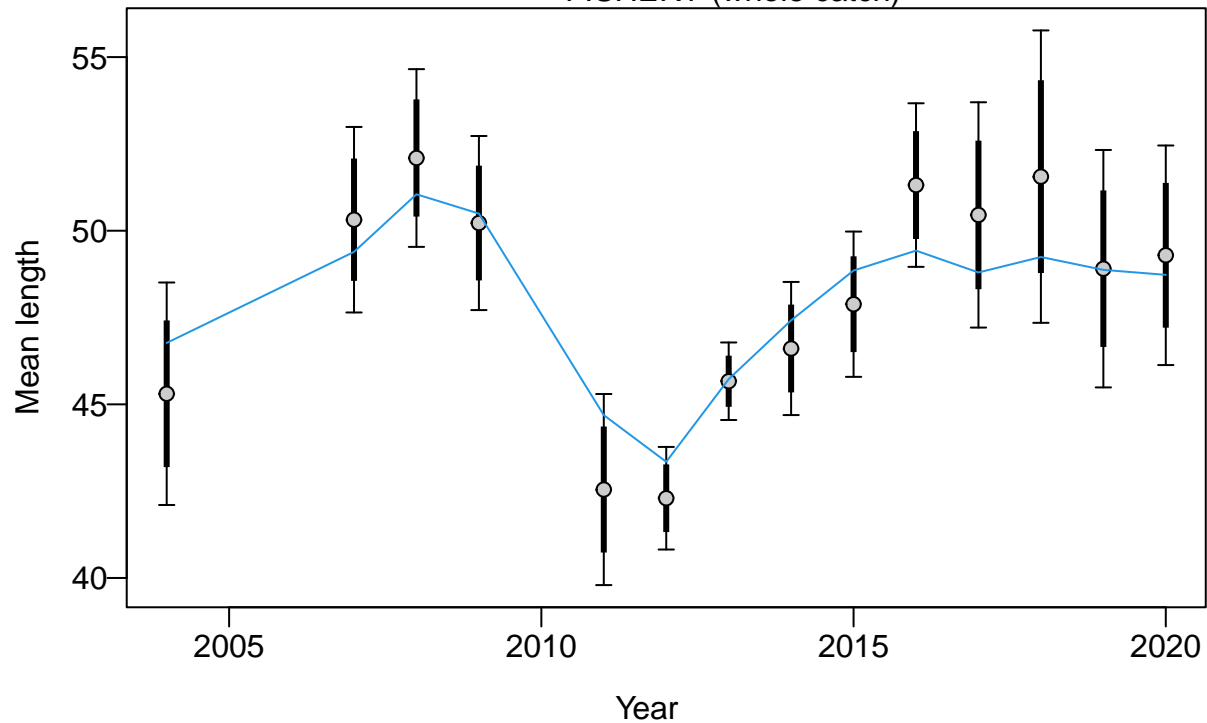
Length (cm)

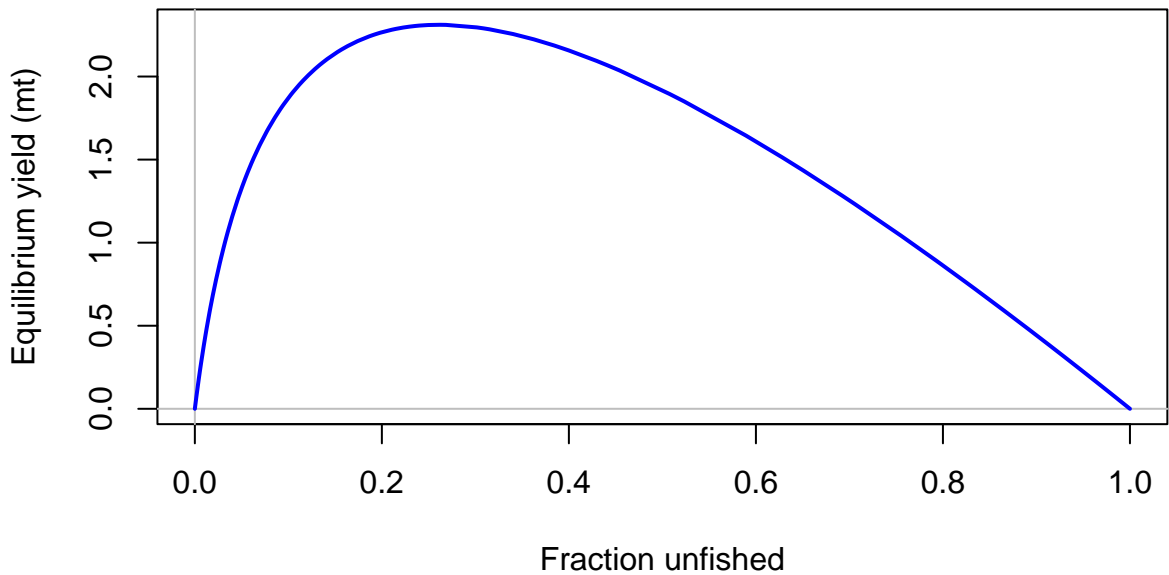


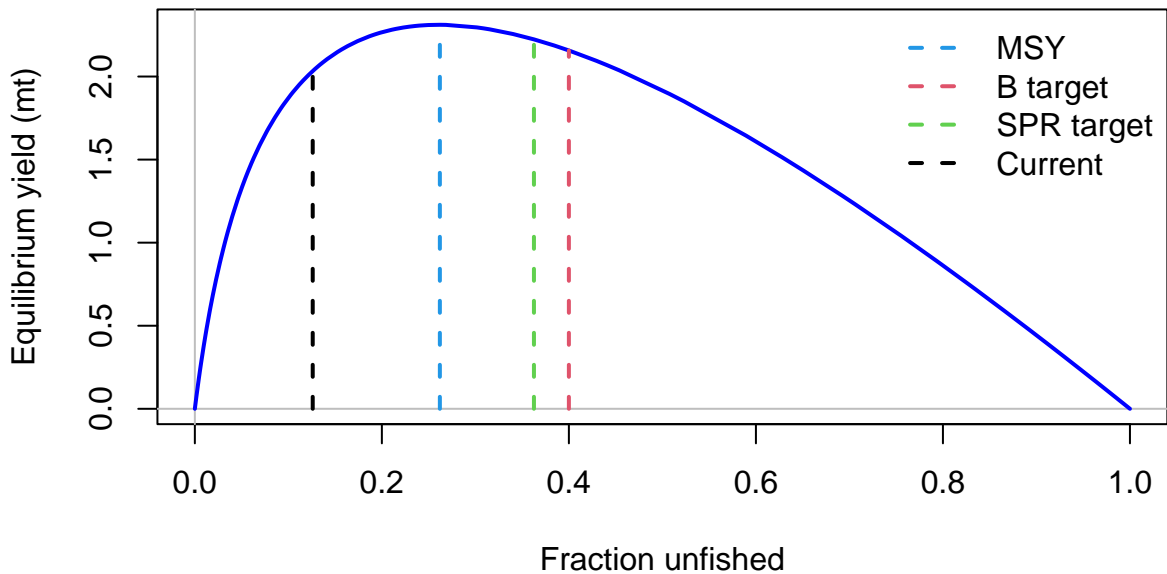
Effective sample size

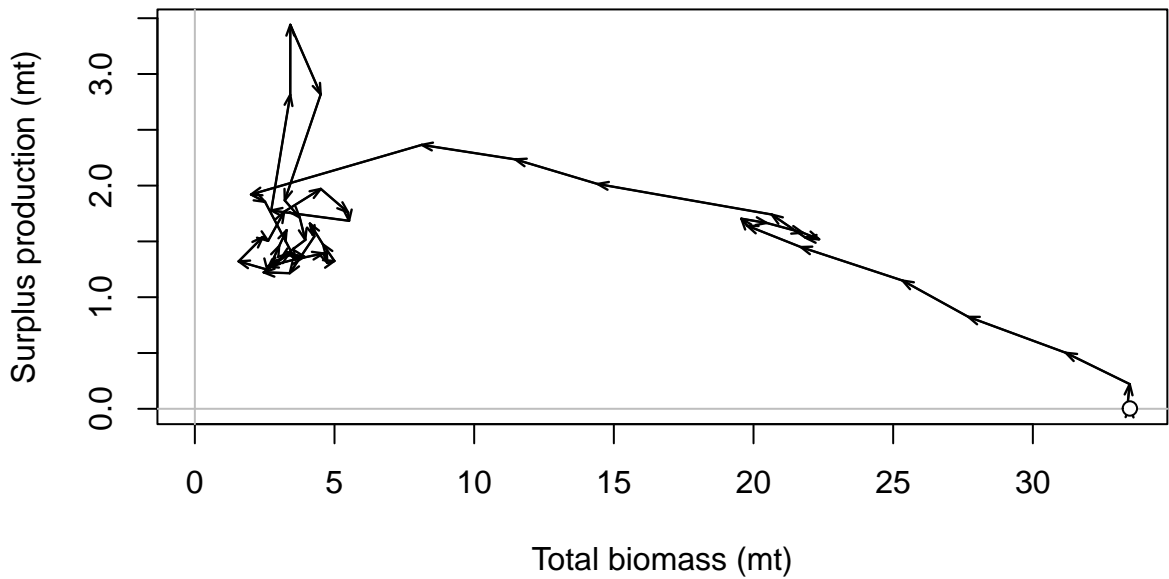


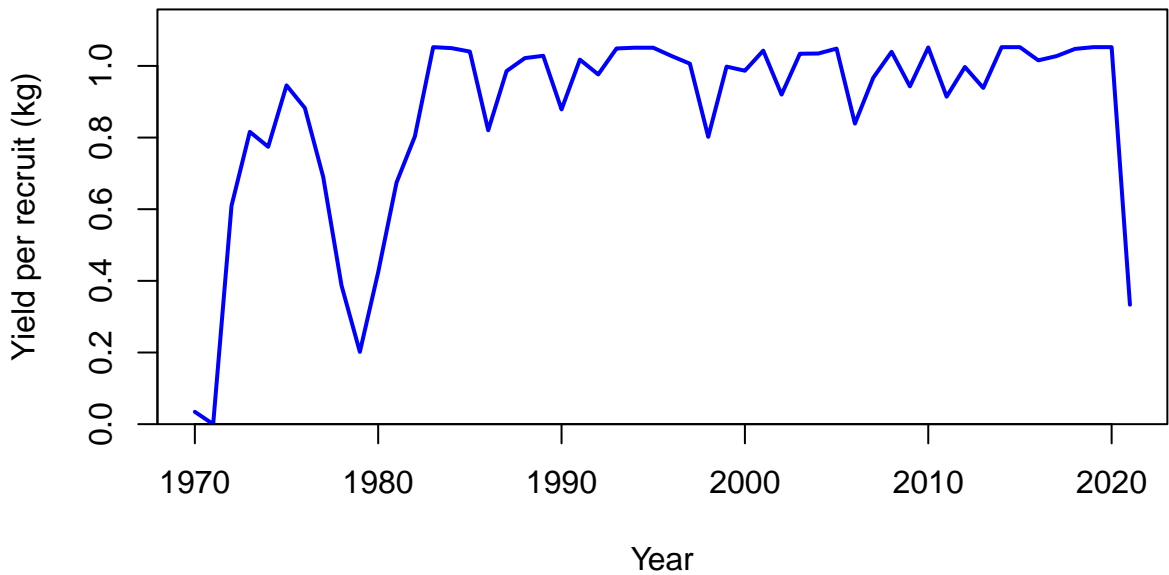
FISHERY (whole catch)

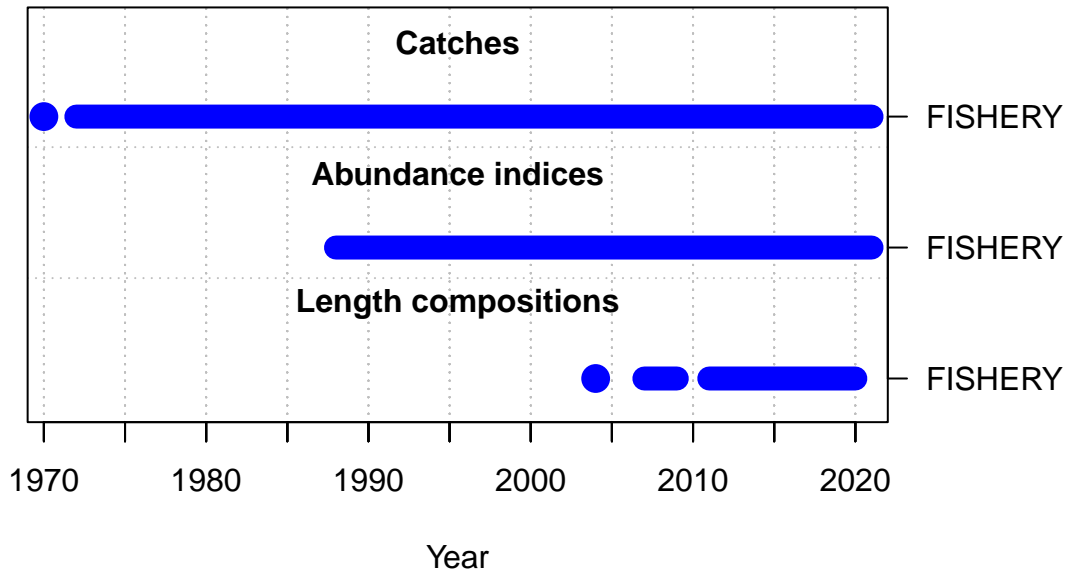


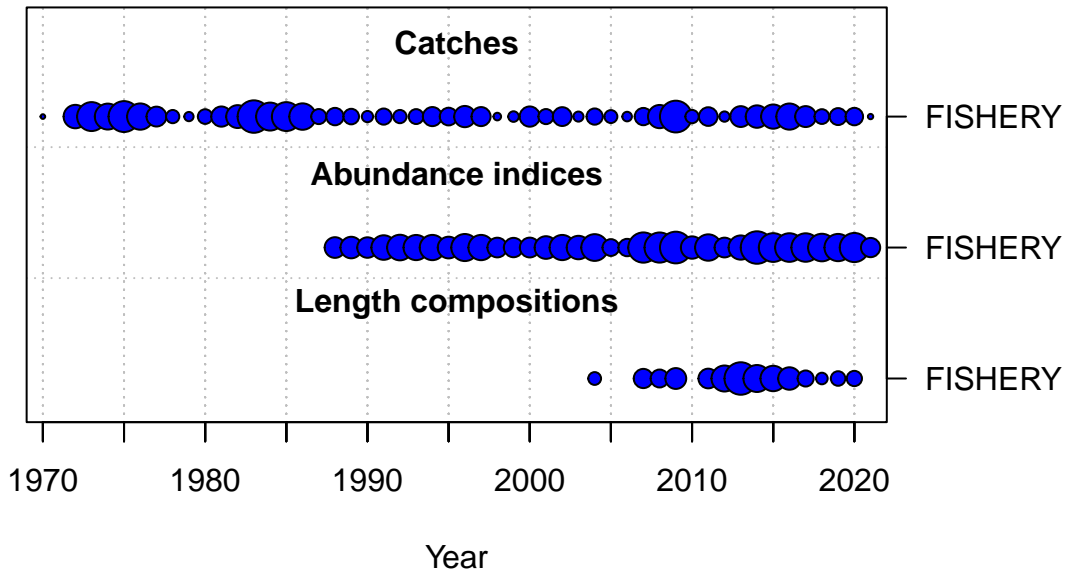




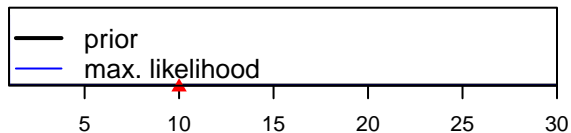




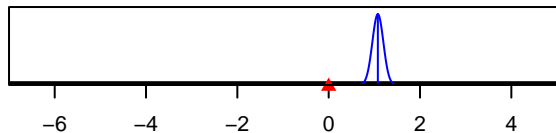




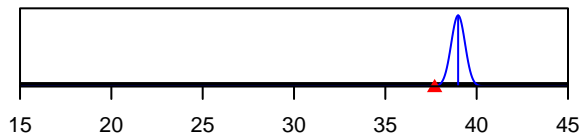
SR_LN(R0)



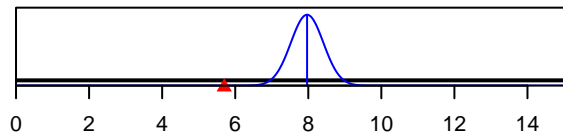
LnQ_base_FISHERY(1)



Size_inflection_FISHERY(1)



Size_95%width_FISHERY(1)



Parameter value

Density