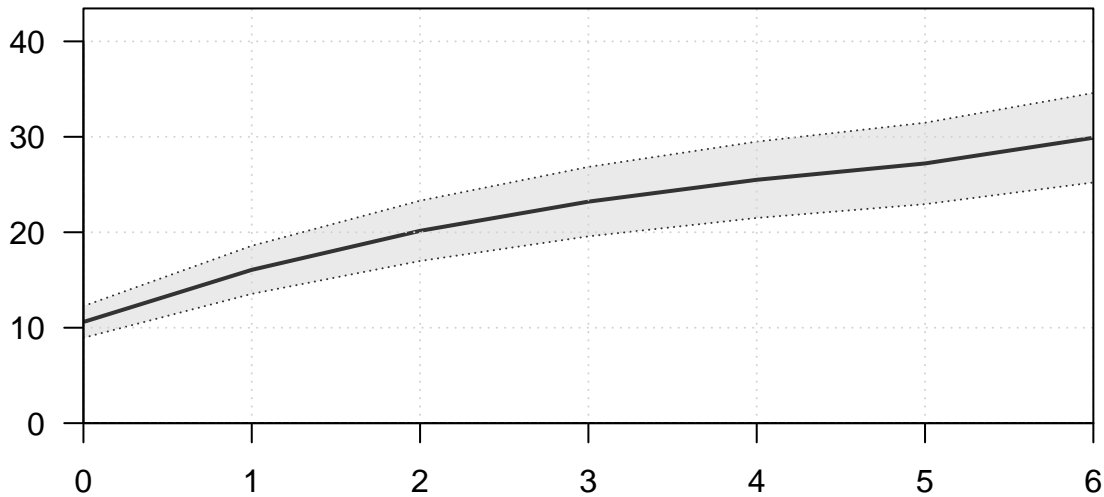
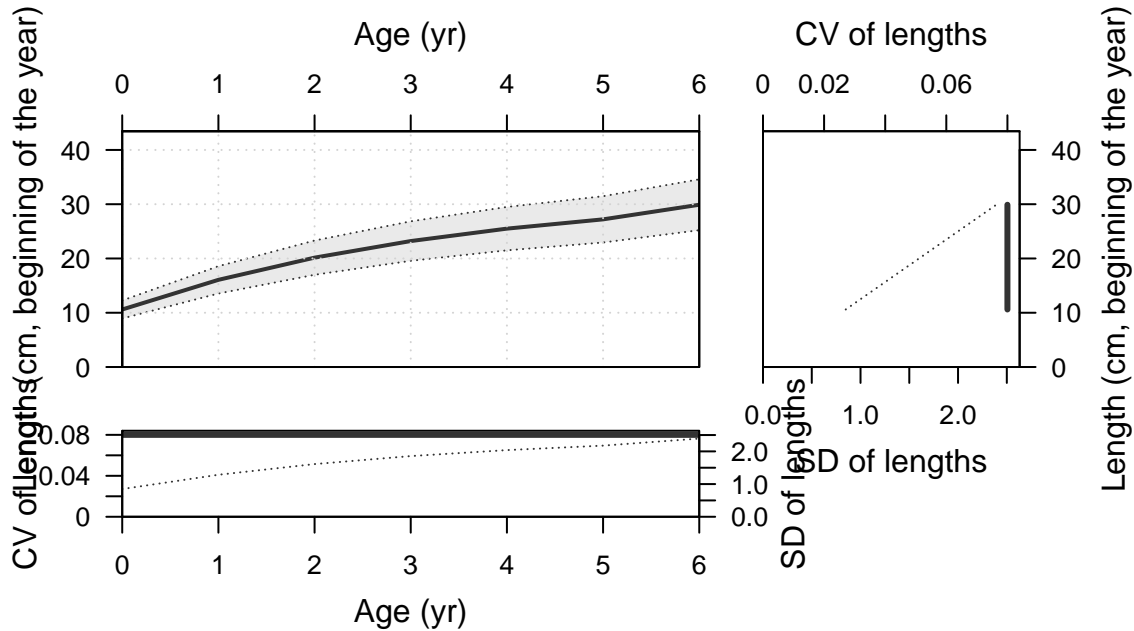


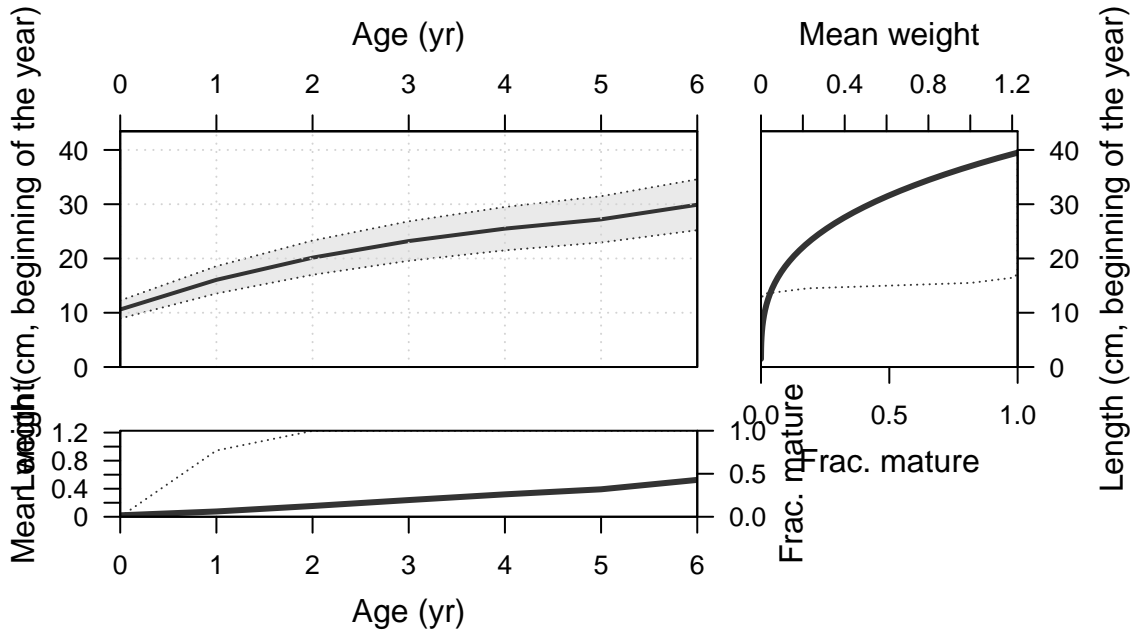
Plots created using the 'r4ss' package in R
Stock Synthesis version: 3.30.19.0
StartTime: Fri Jul 15 17:10:37 2022
Data_File: data.ss
Control_File: control.ss

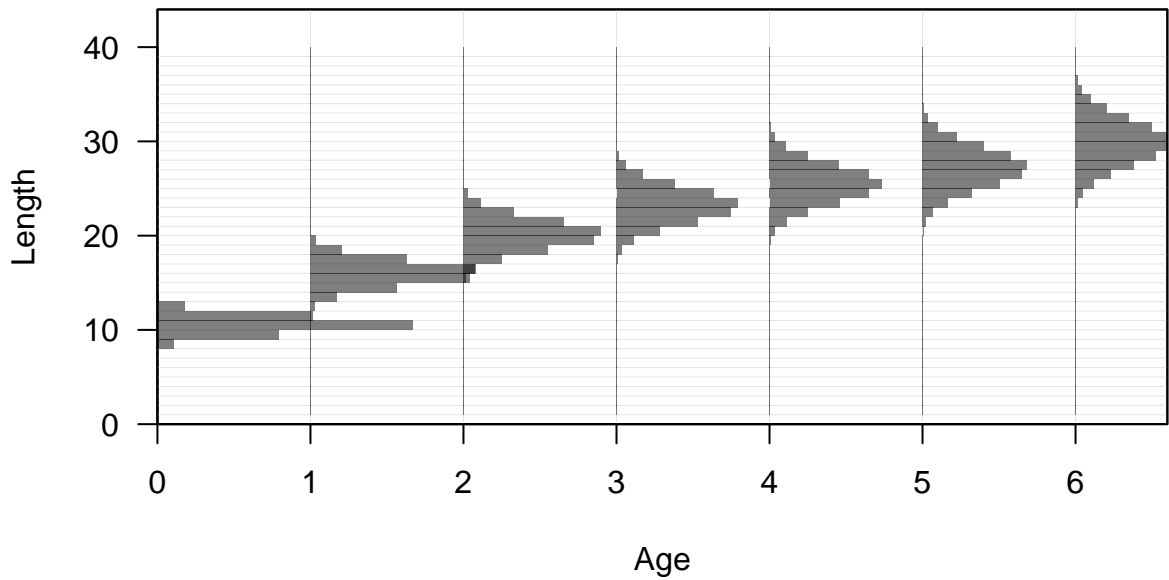
Length (cm, beginning of the year)

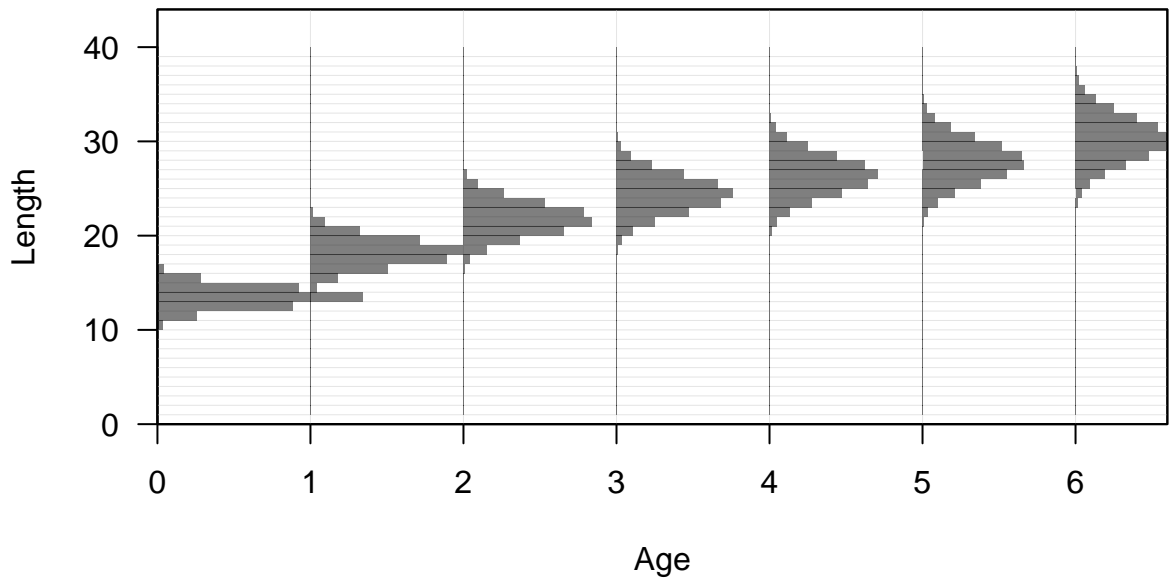


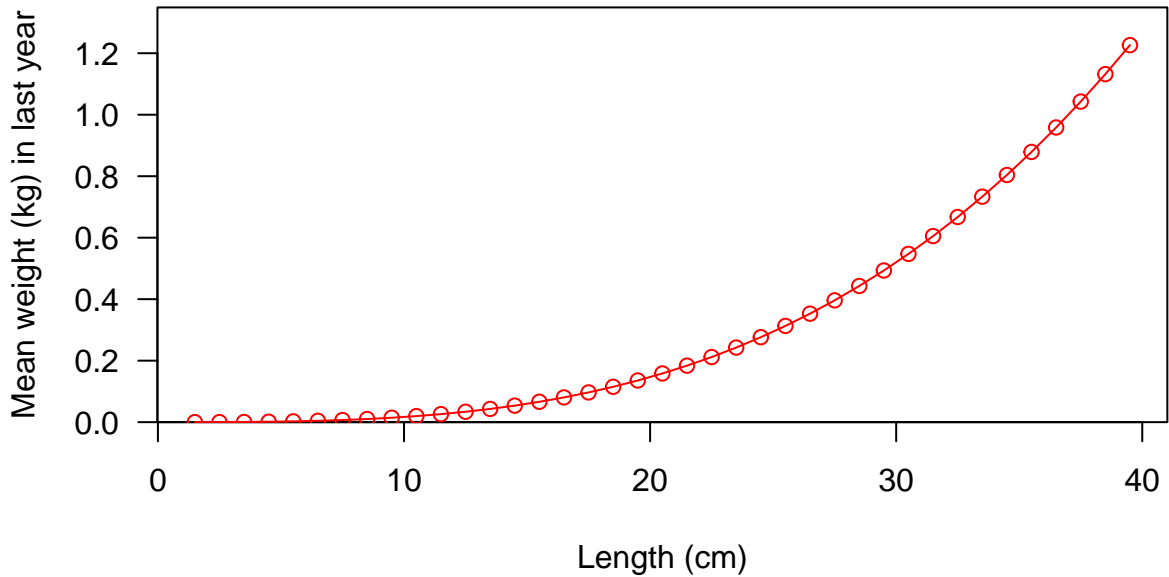
Age (yr)

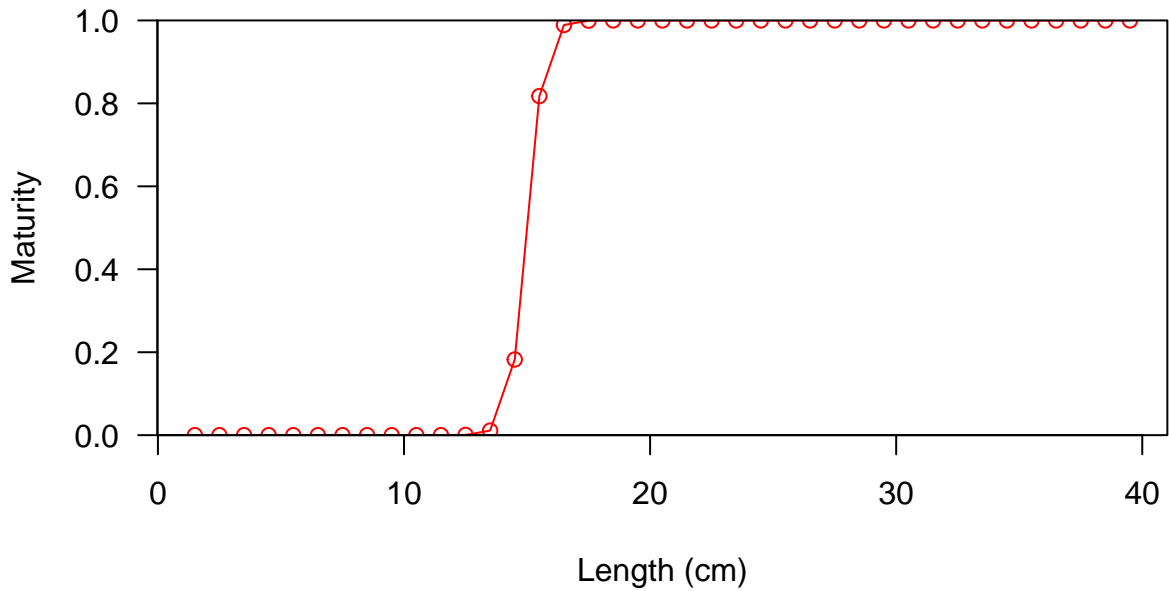


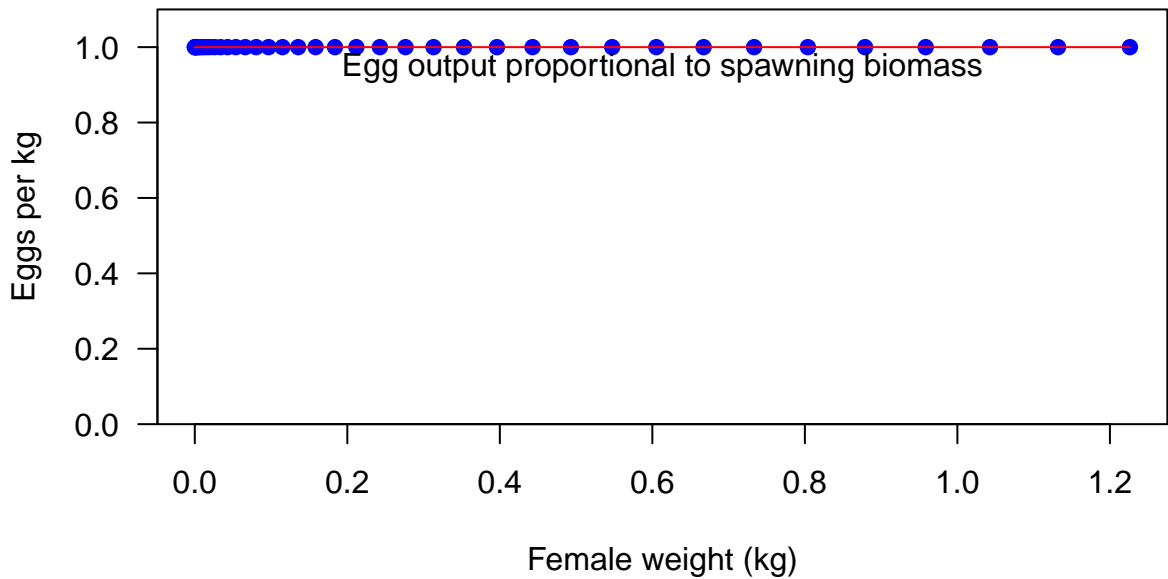




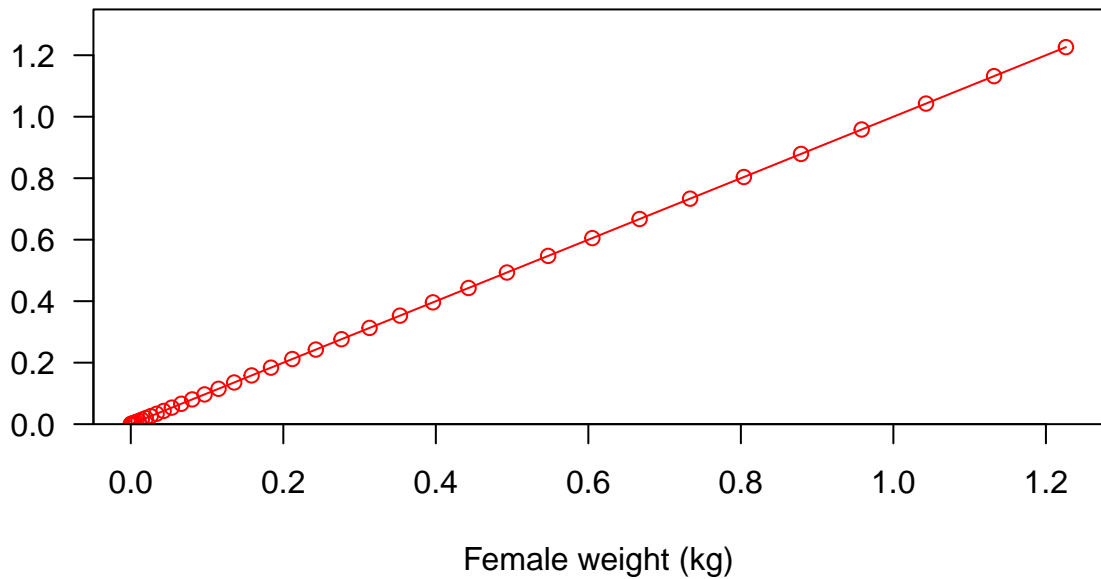


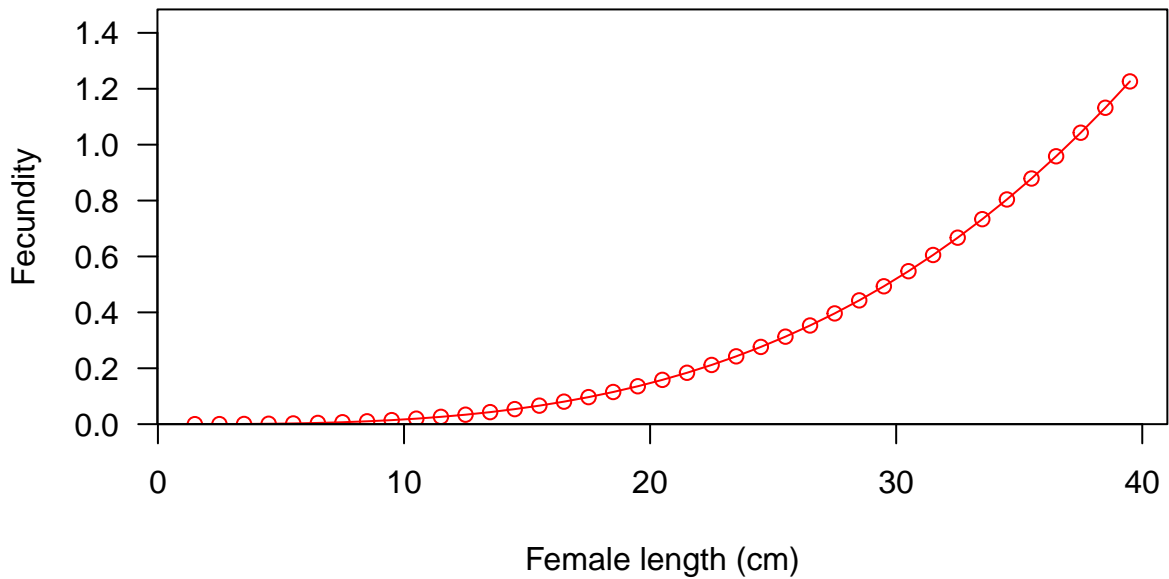


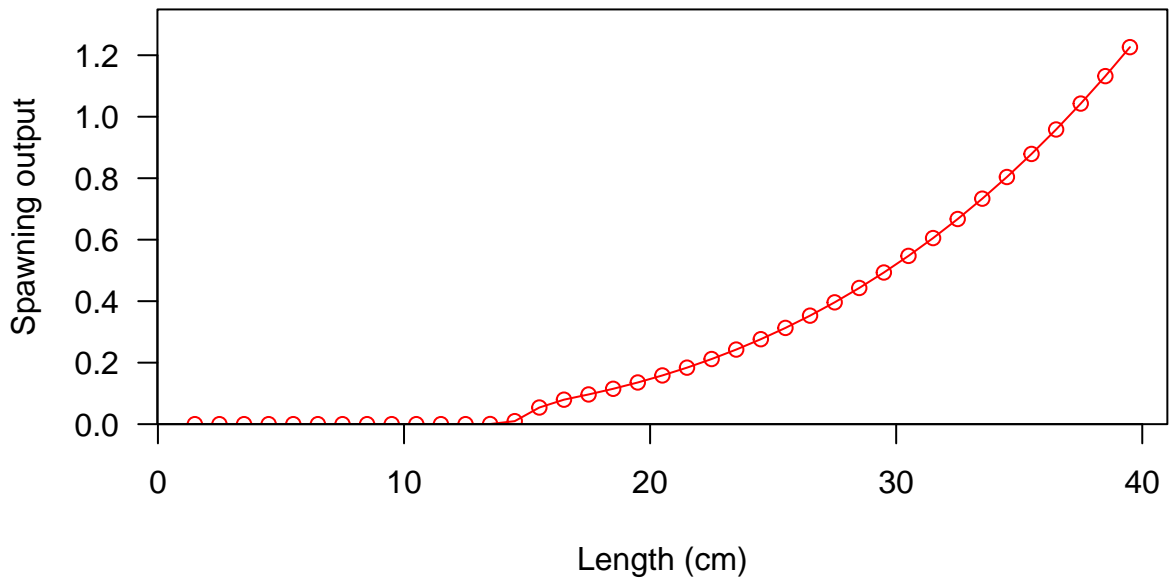


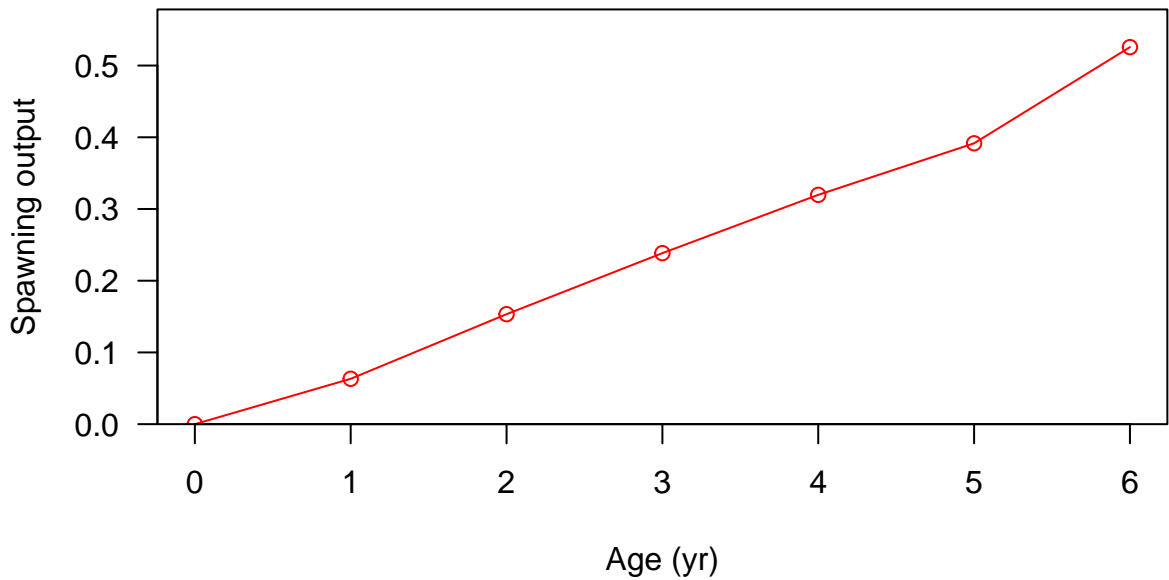


Fecundity

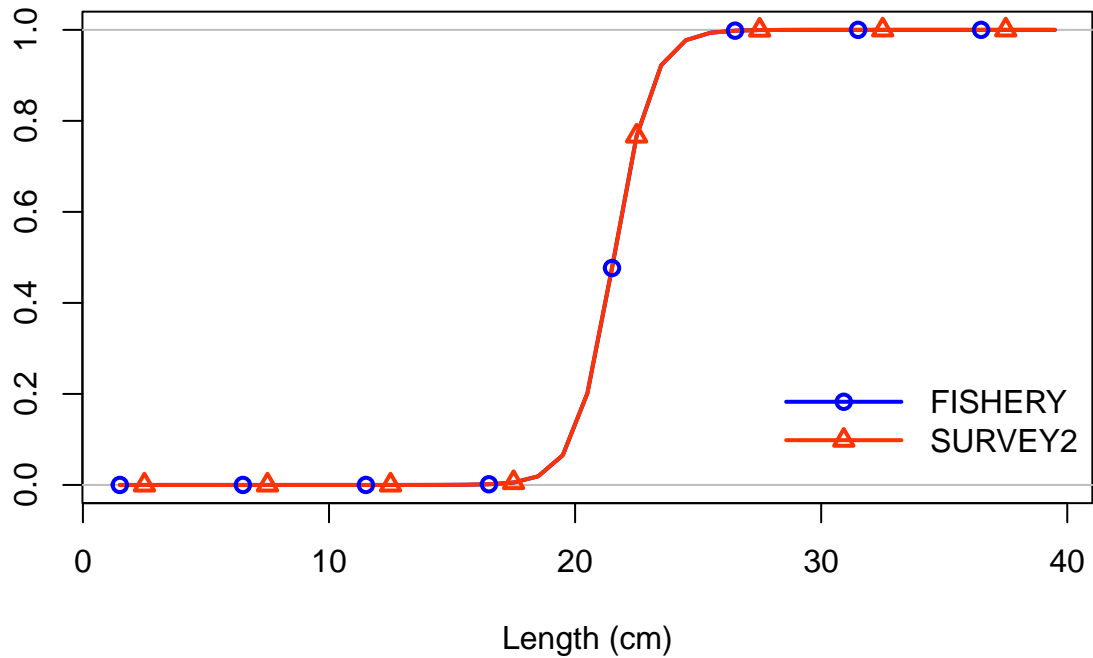




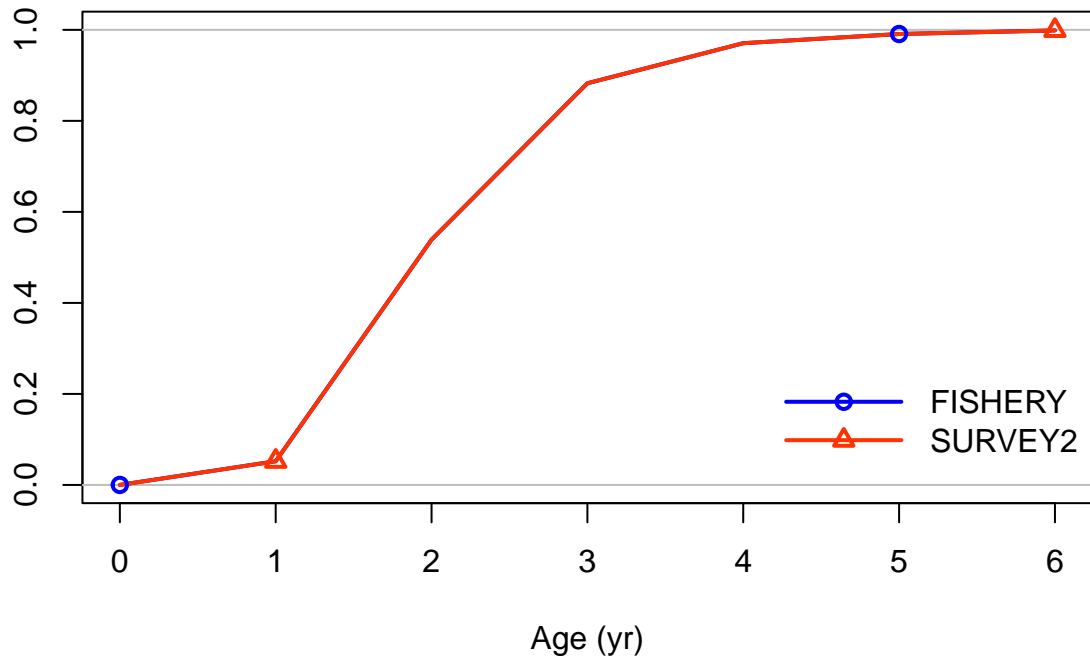




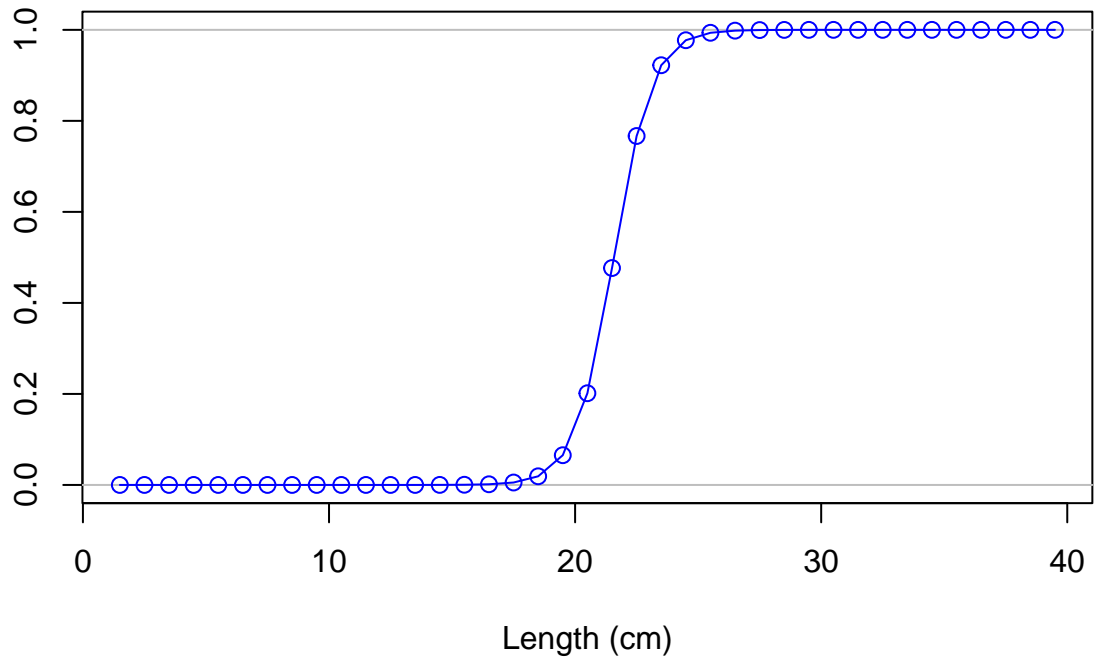
Selectivity



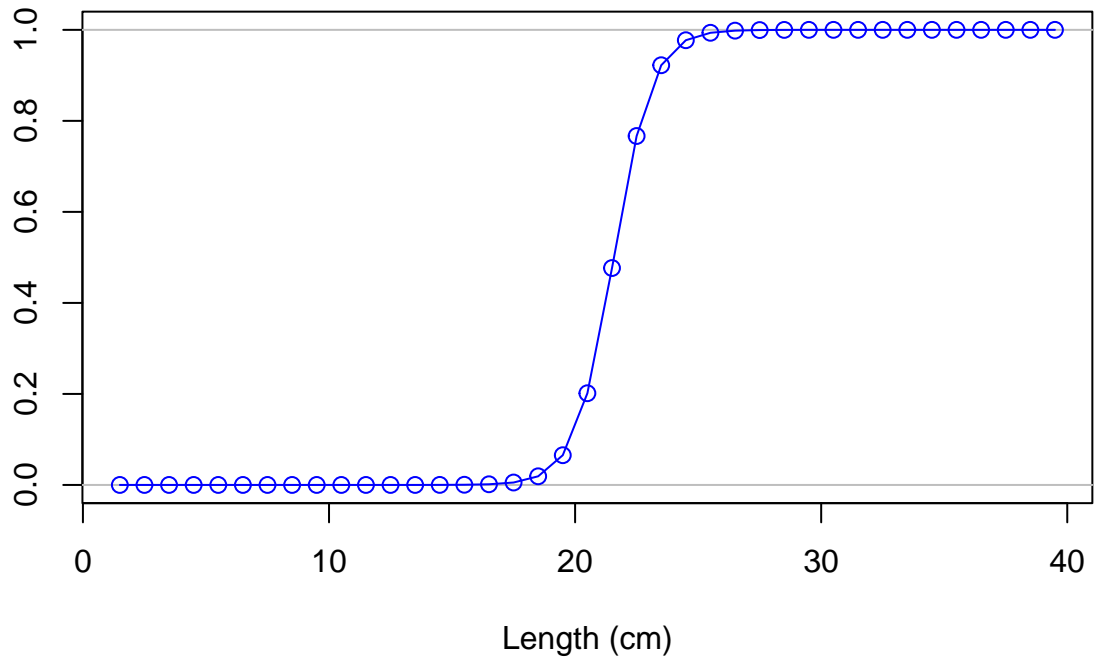
Selectivity

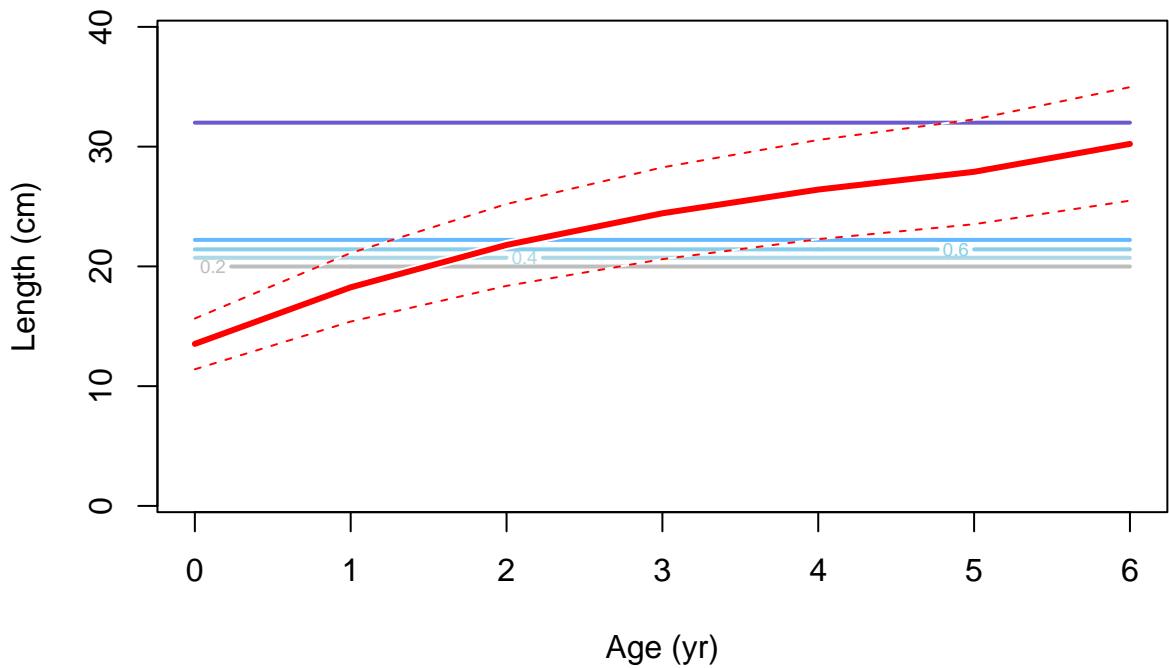


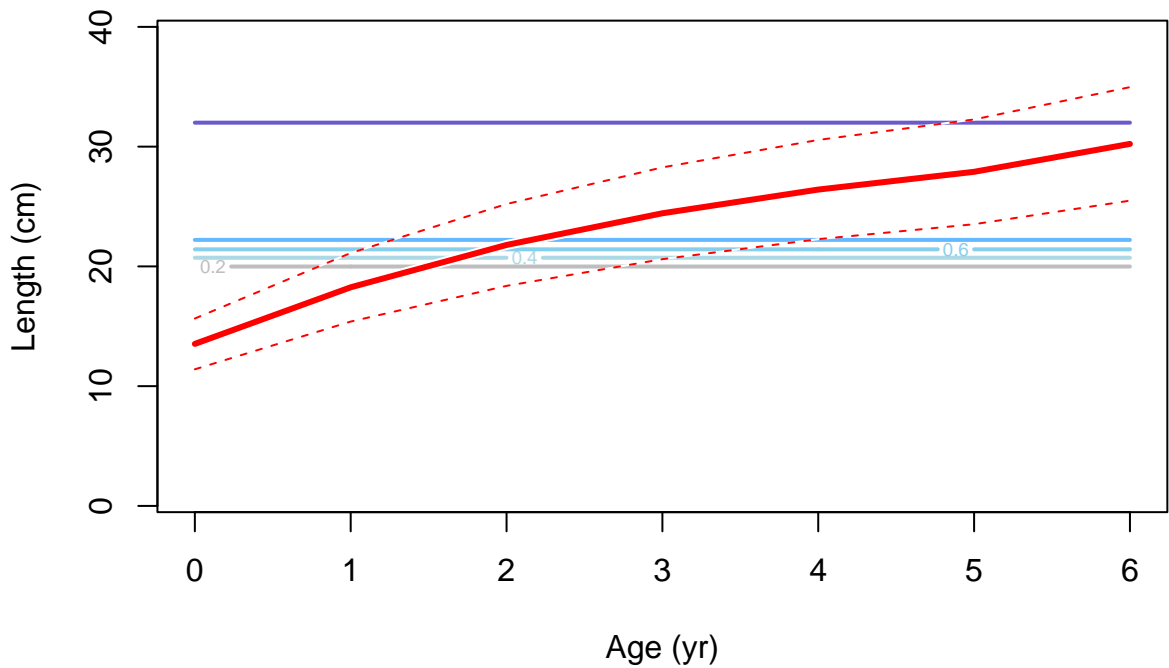
Selectivity



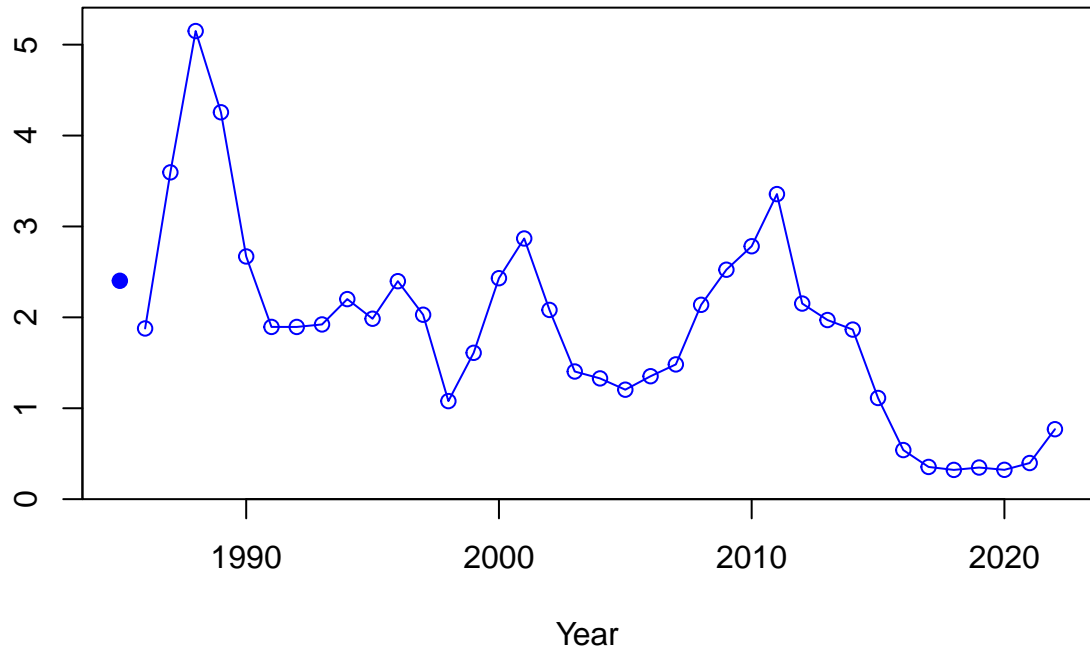
Selectivity

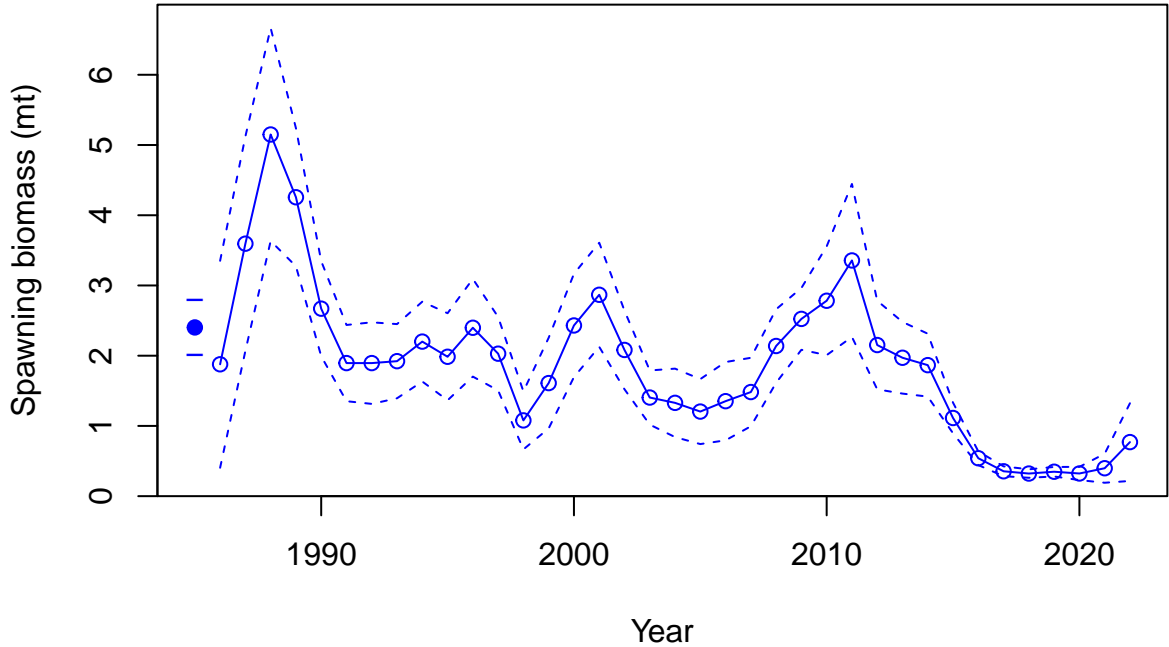




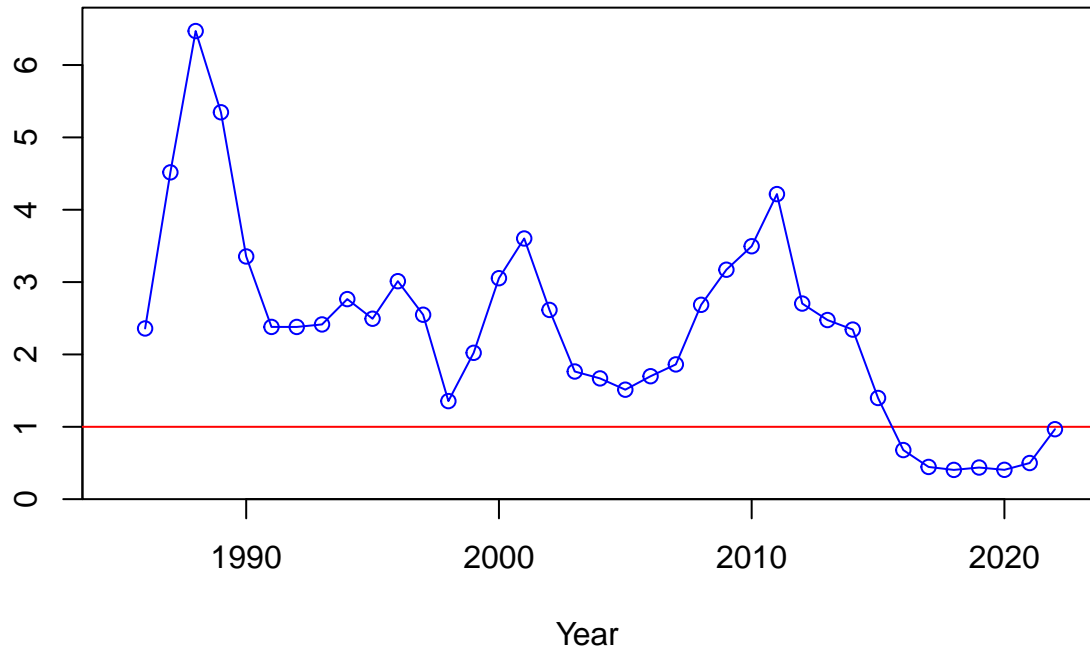


Spawning biomass (mt)

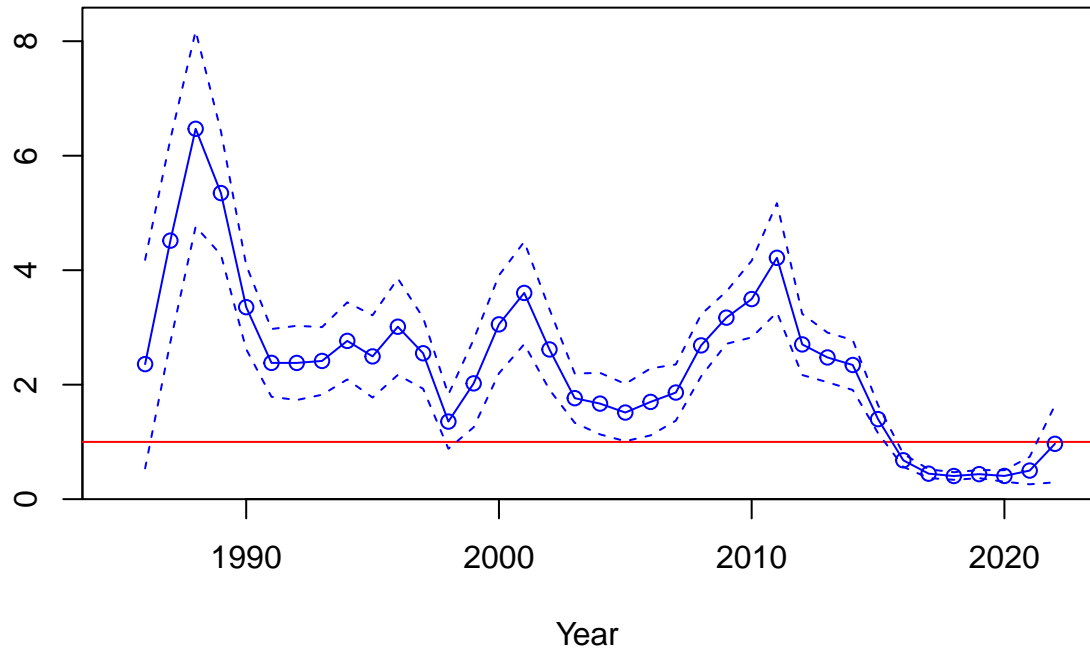


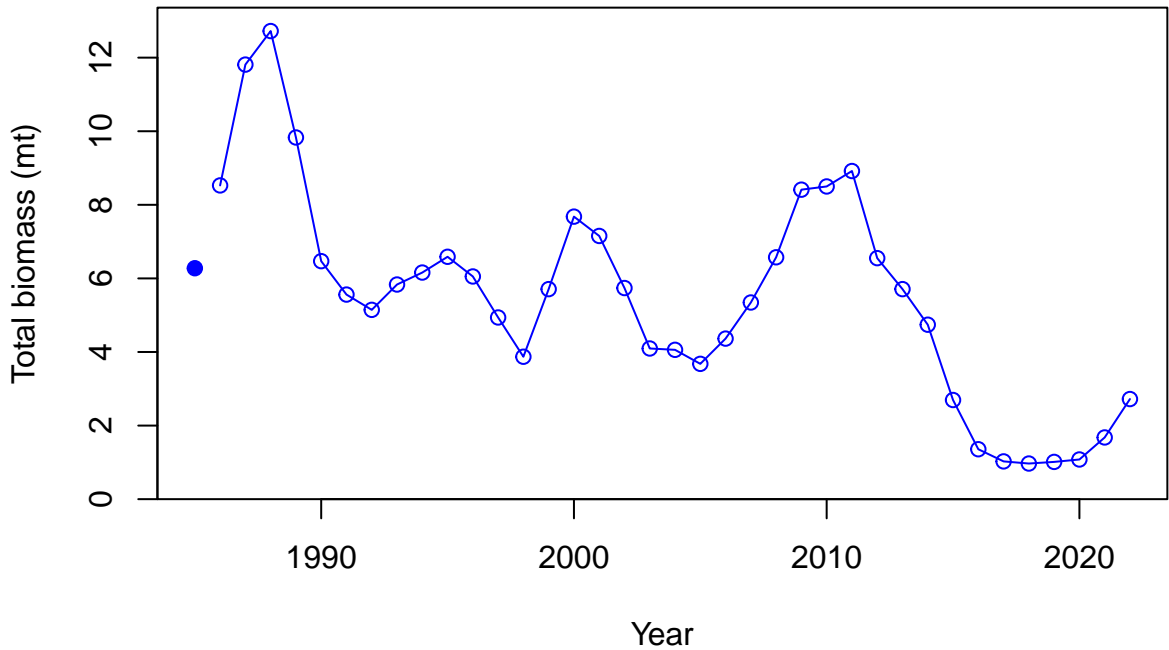


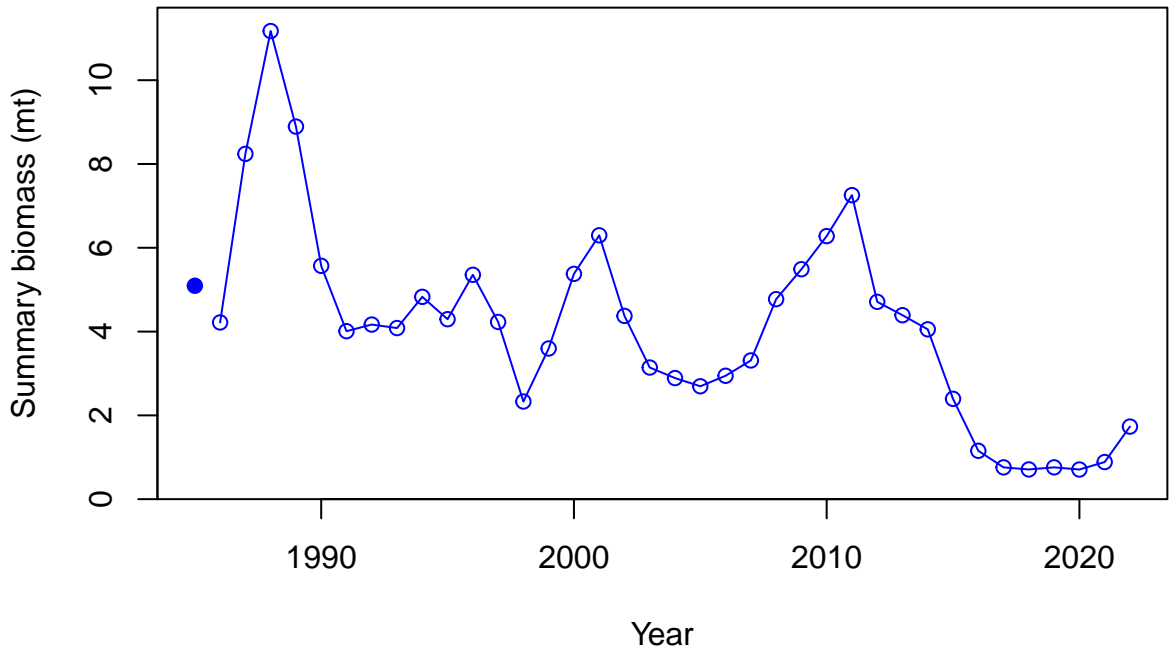
Relative spawning biomass: B/B_{MSY}

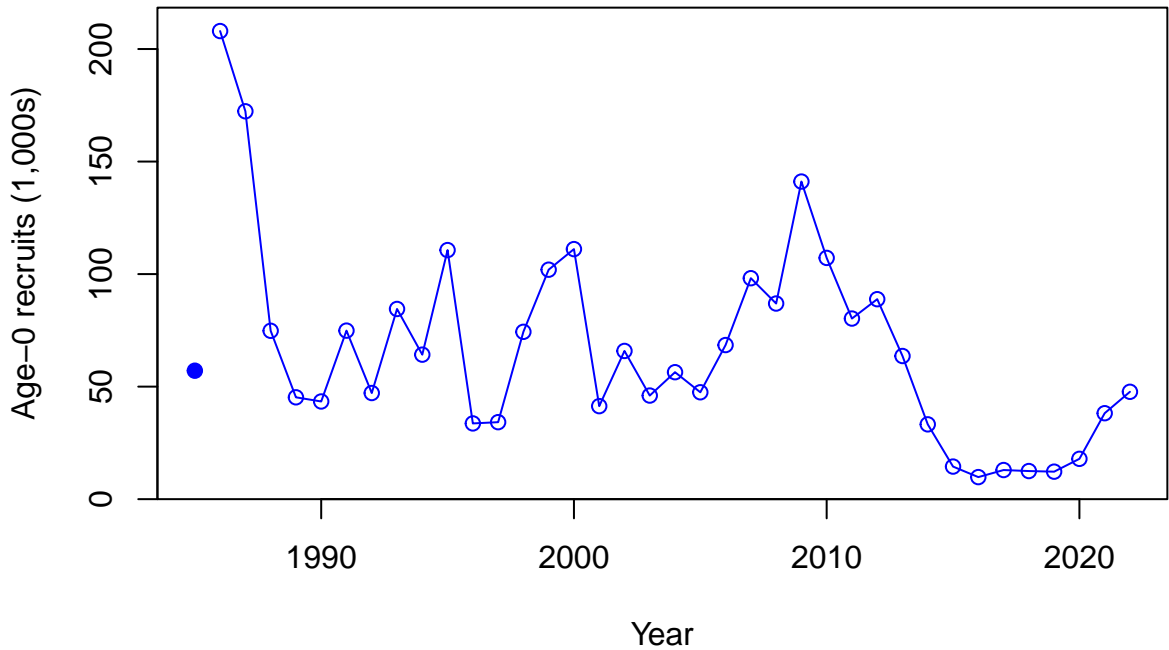


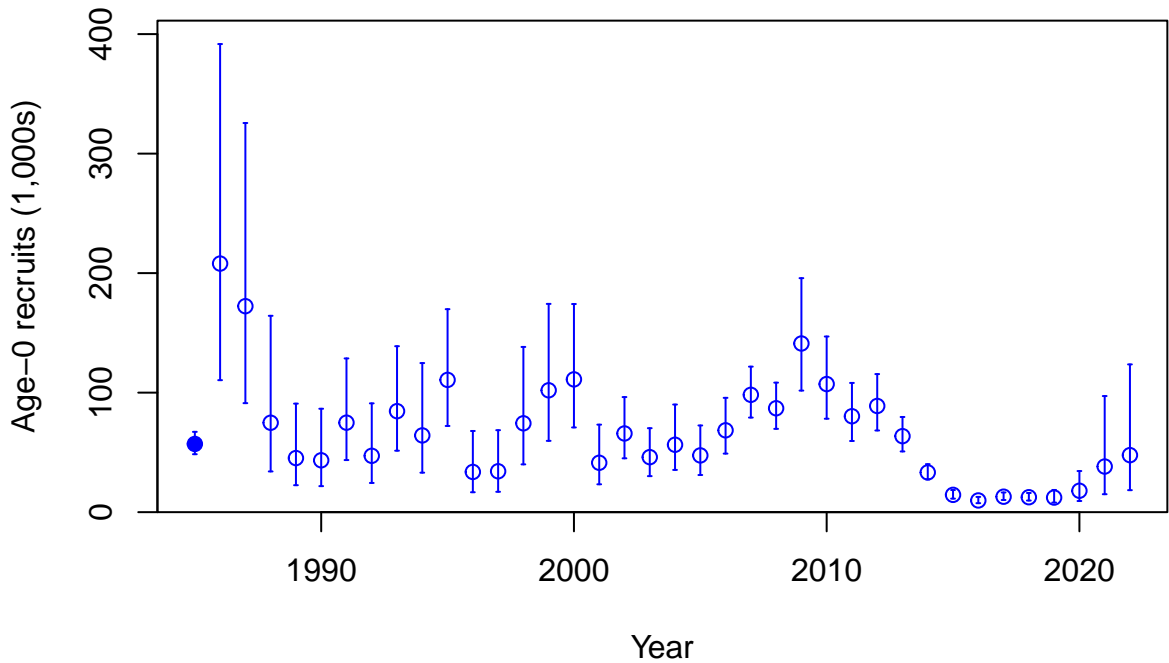
Relative spawning biomass: B/B_{MSY}



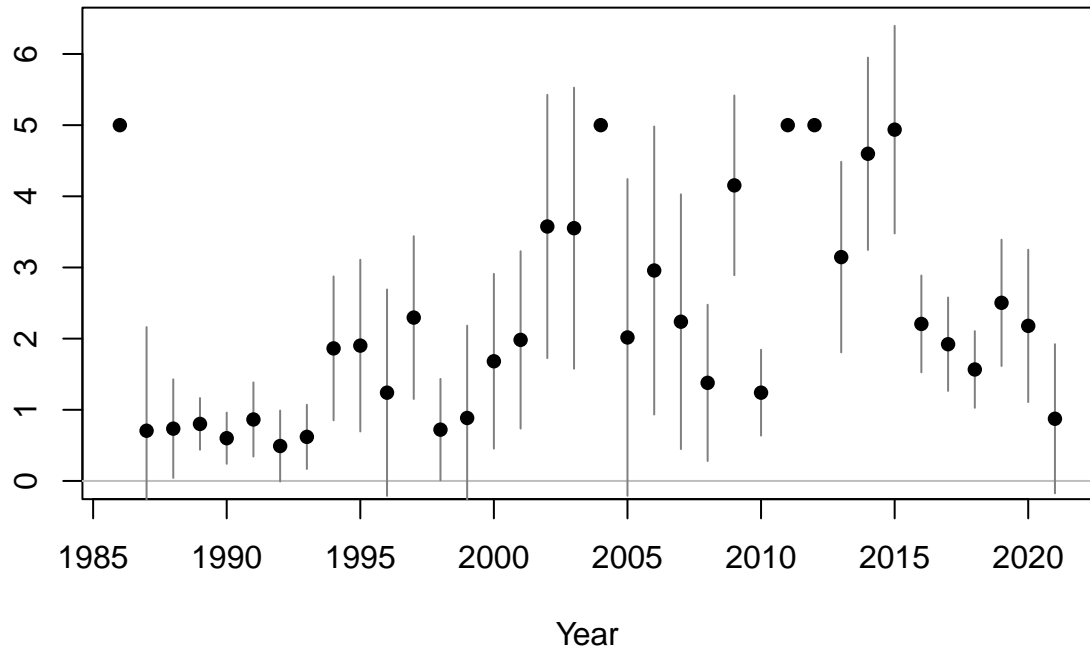


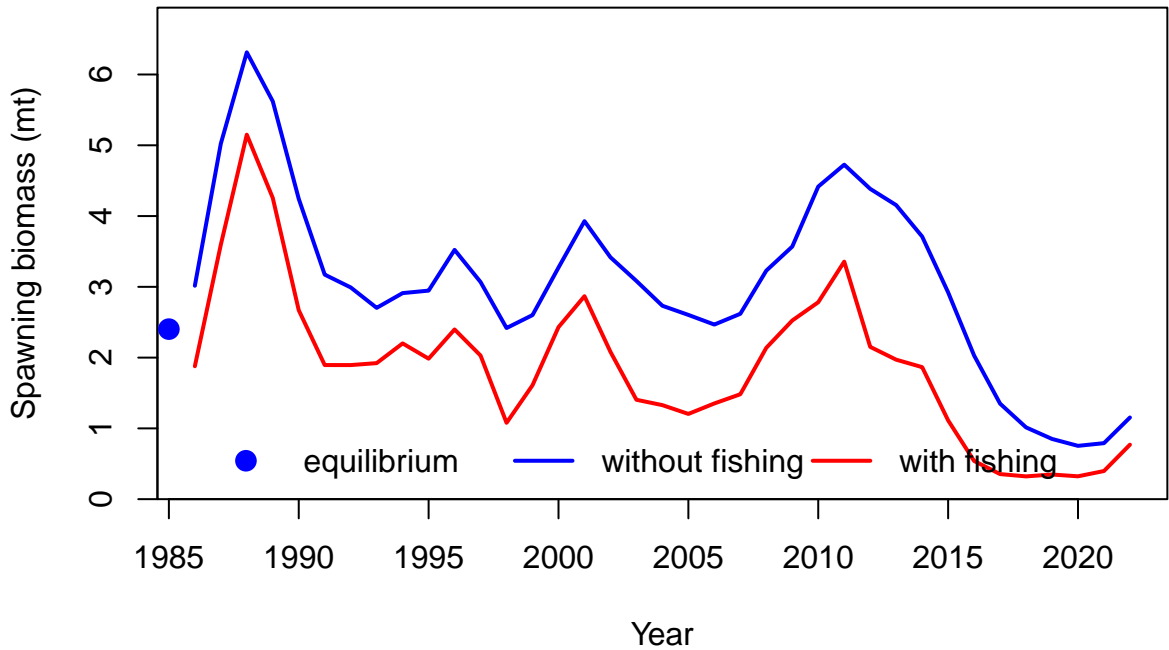






Summary Fishing Mortality





Log recruitment deviation

1.0
0.5
0.0
-0.5
-1.0

1980

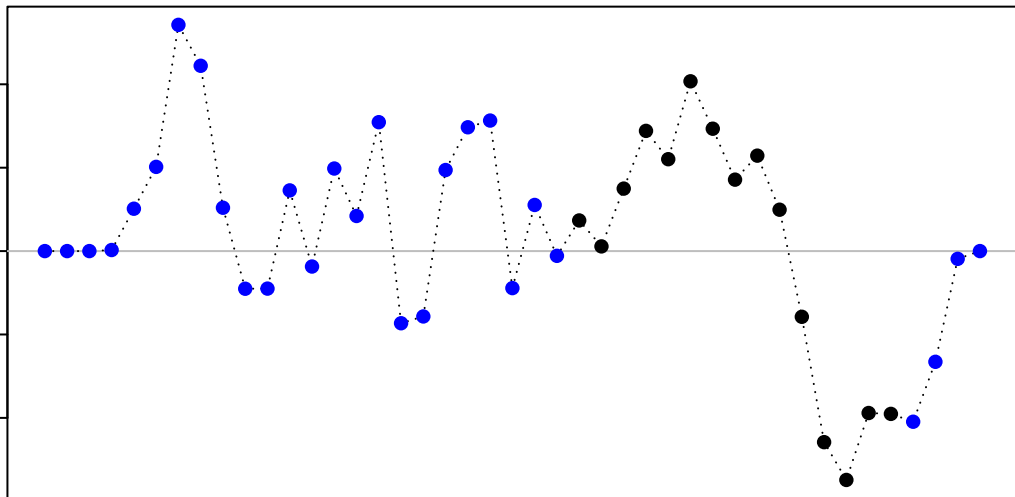
1990

2000

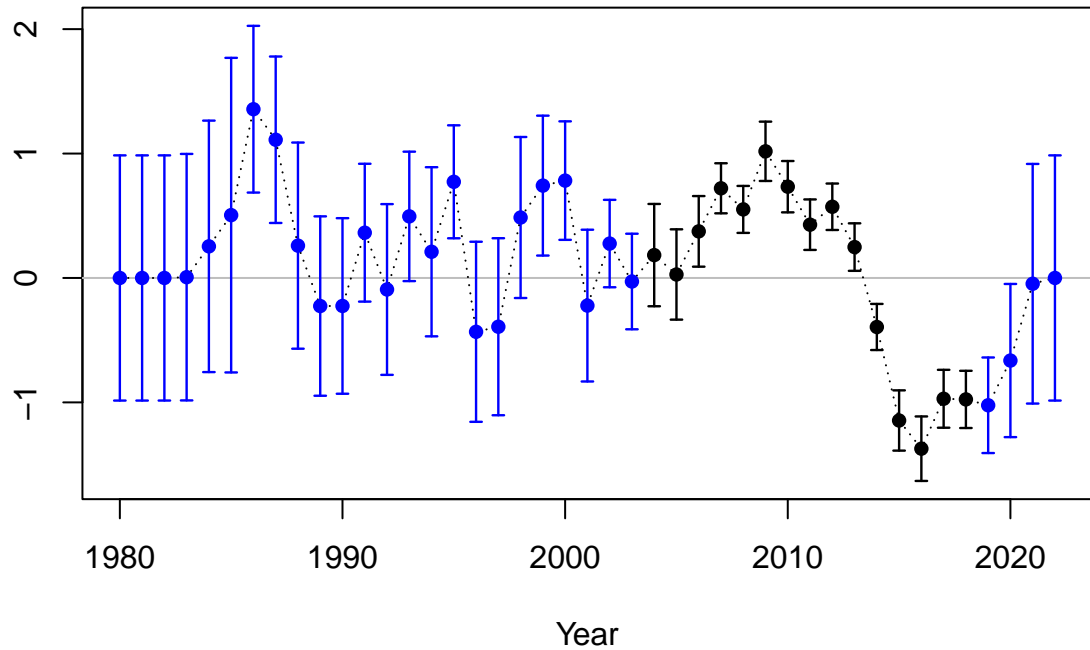
2010

2020

Year

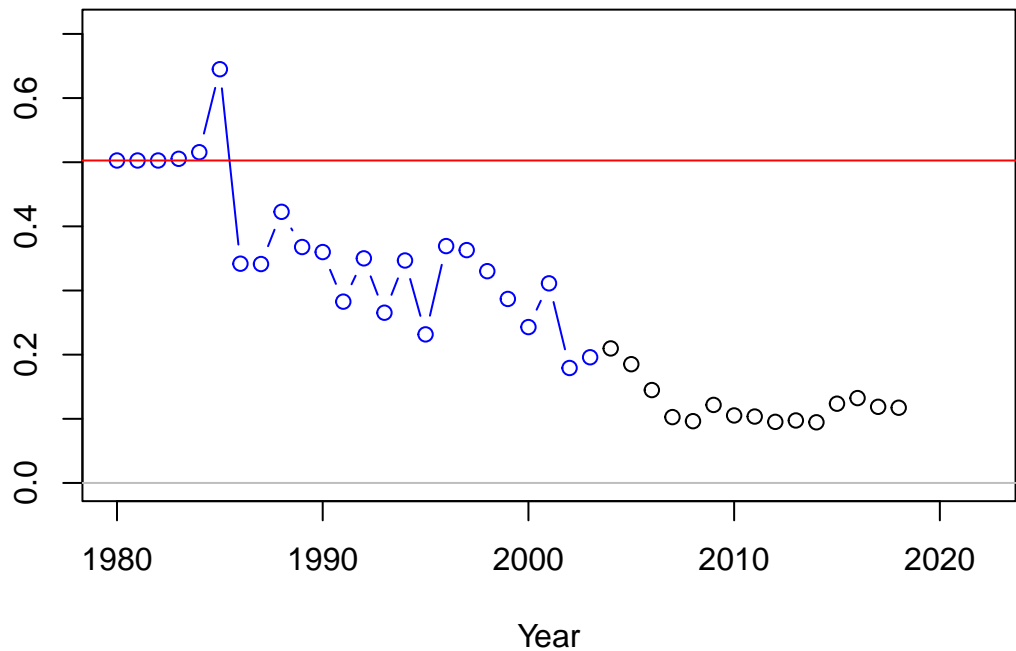


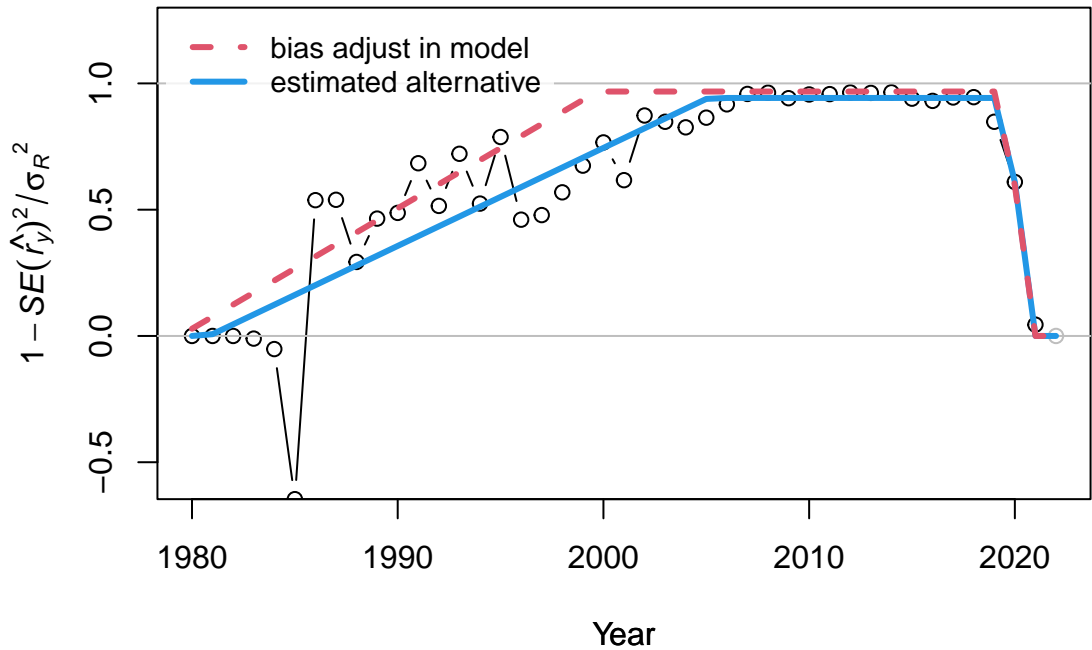
Log recruitment deviation

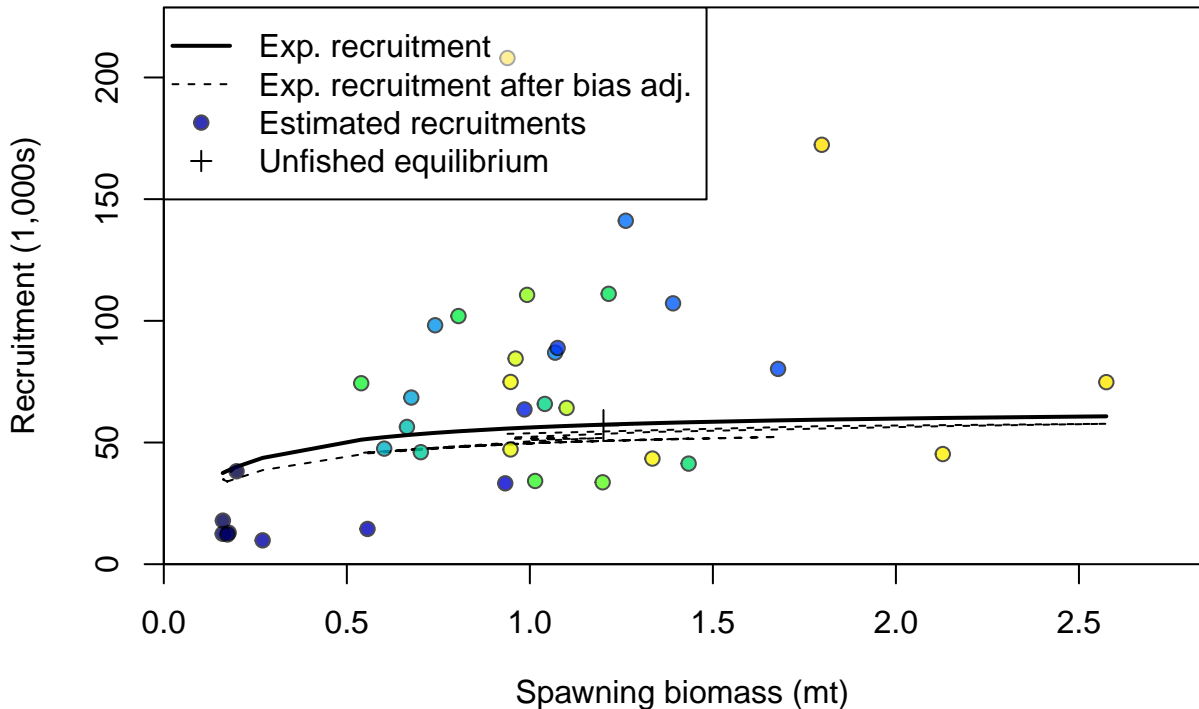


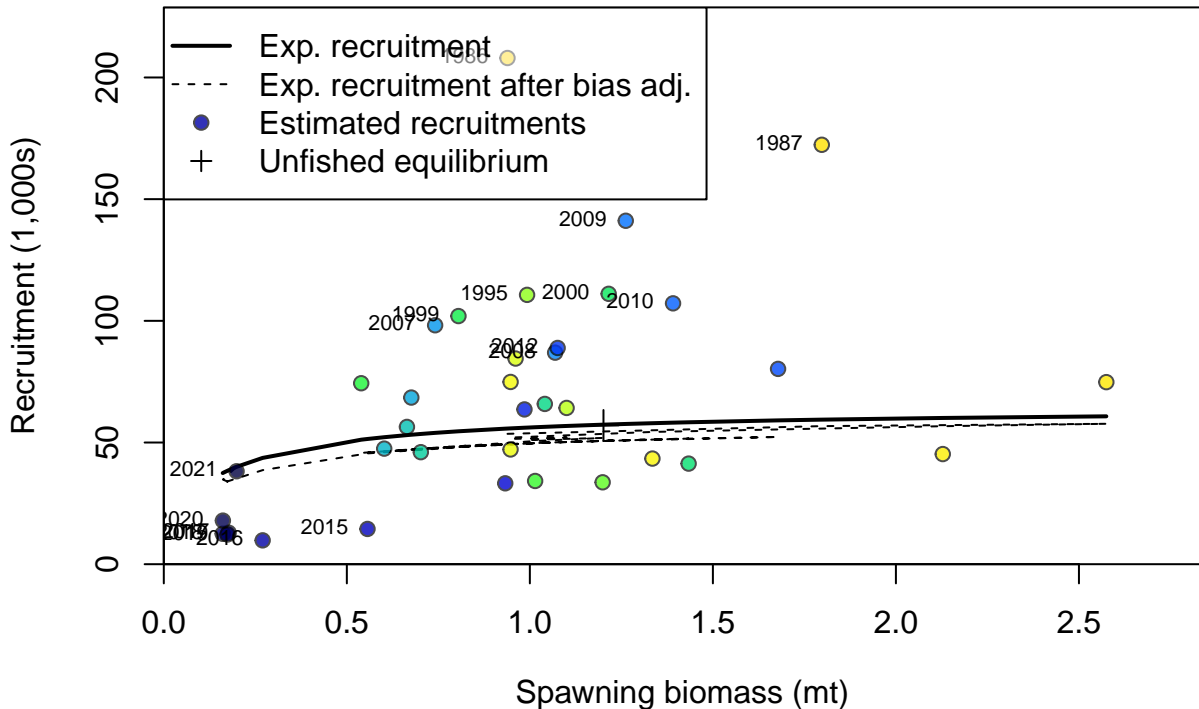
Recruitment deviation variance

Asymptotic standard error estimate

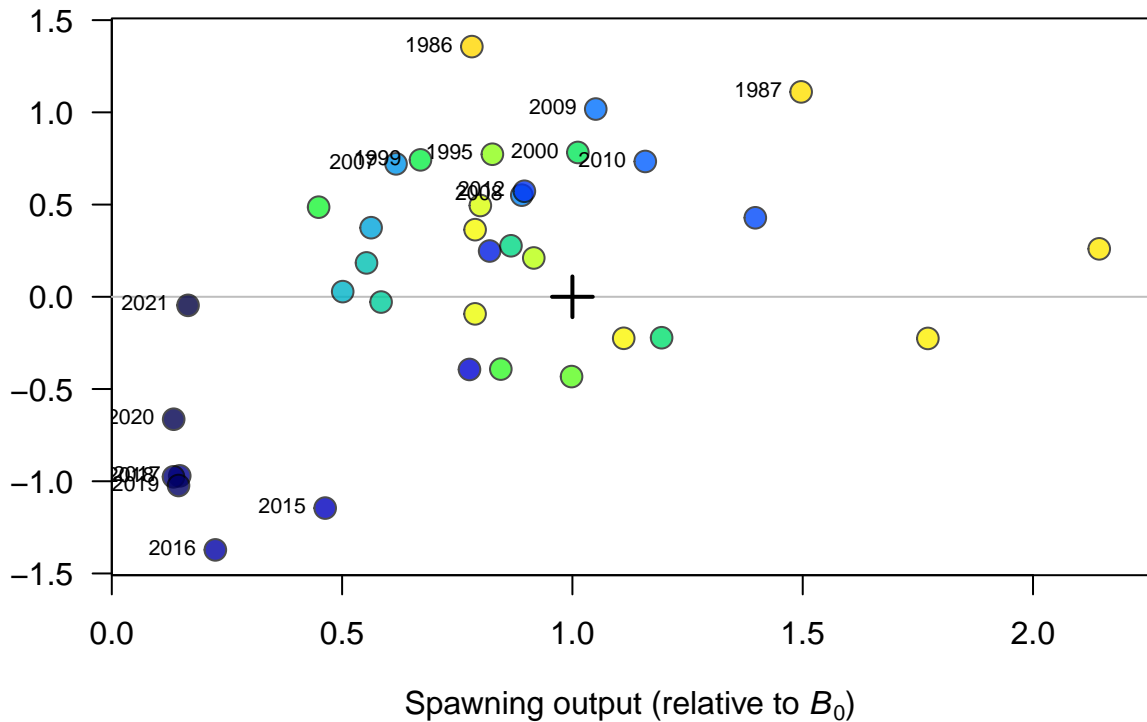


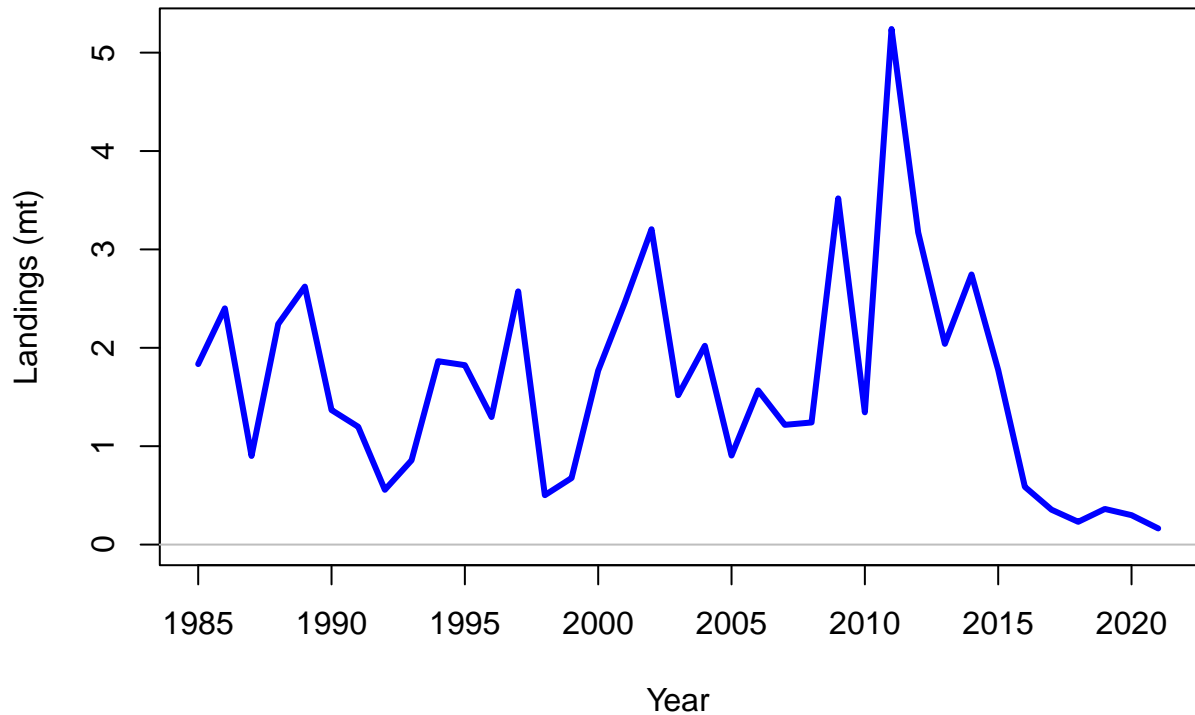


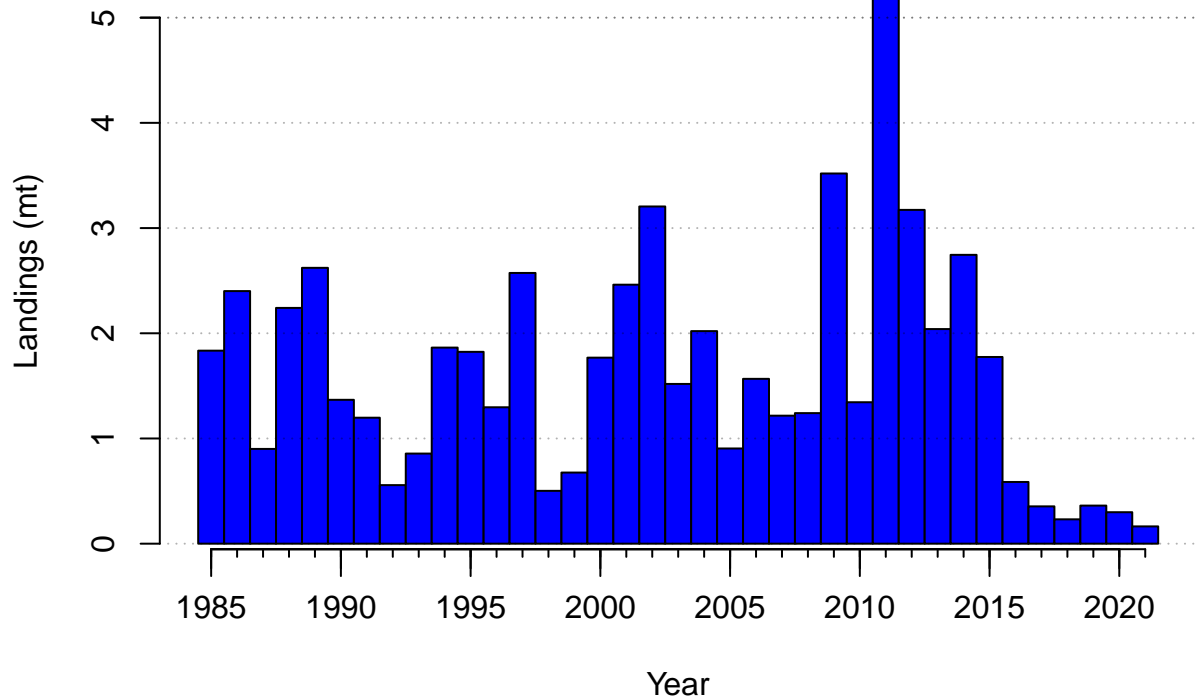


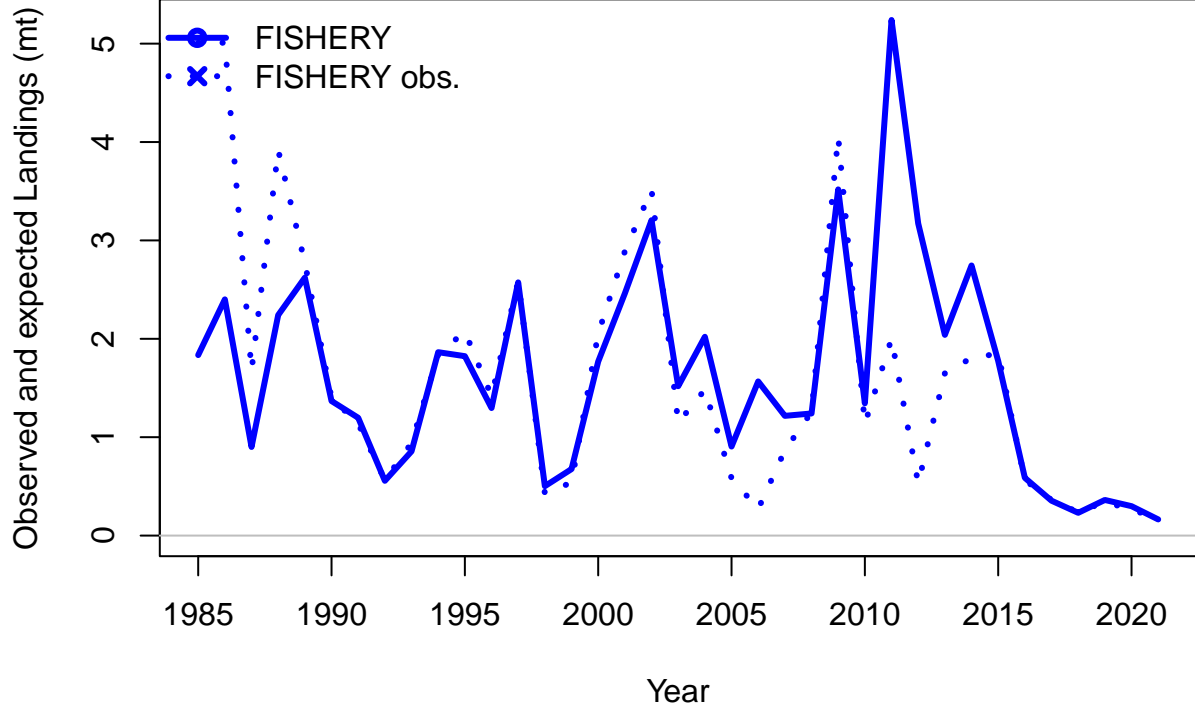


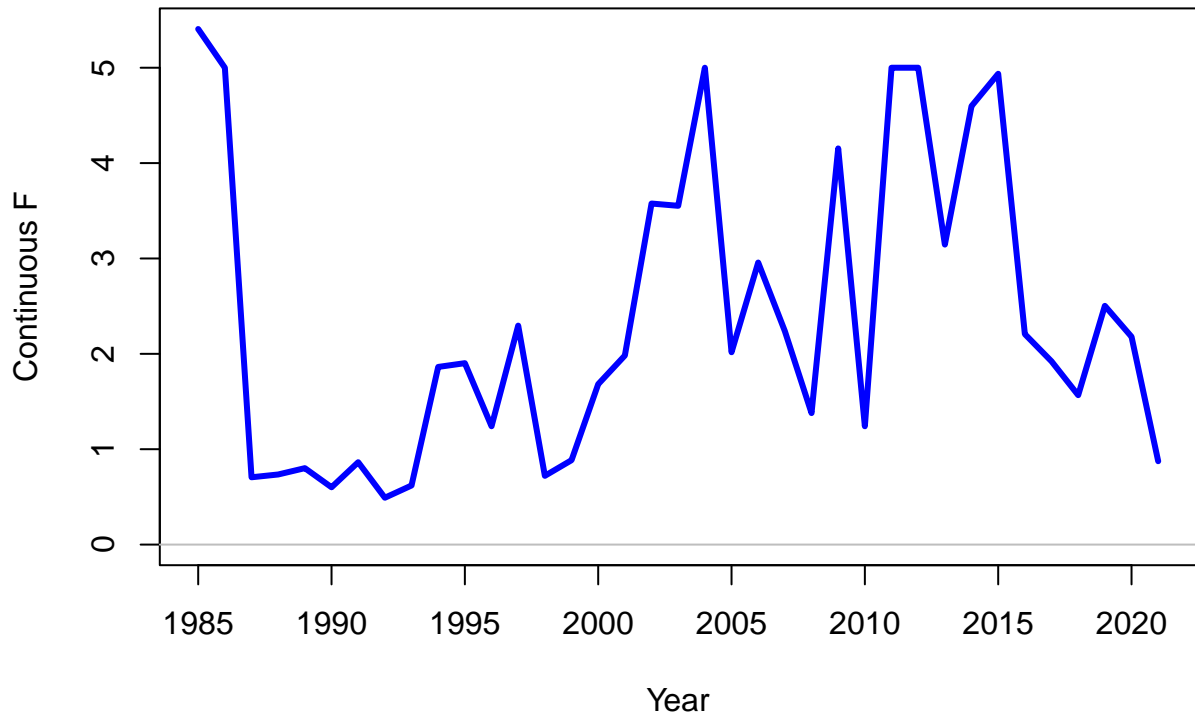
Log recruitment deviation



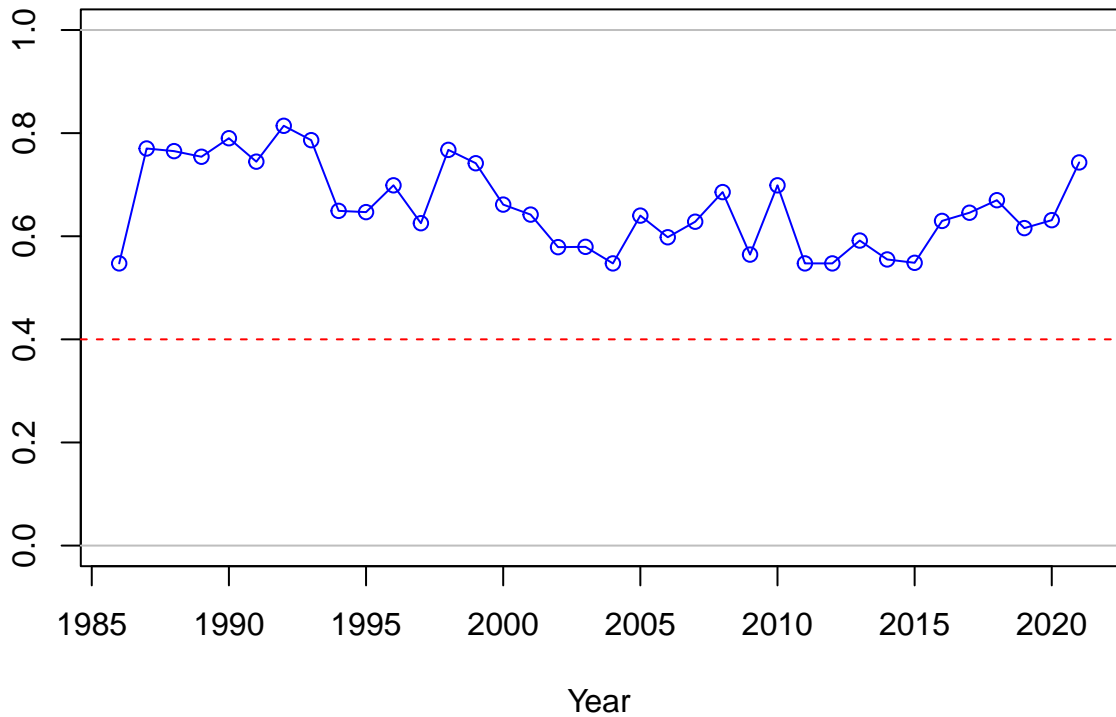




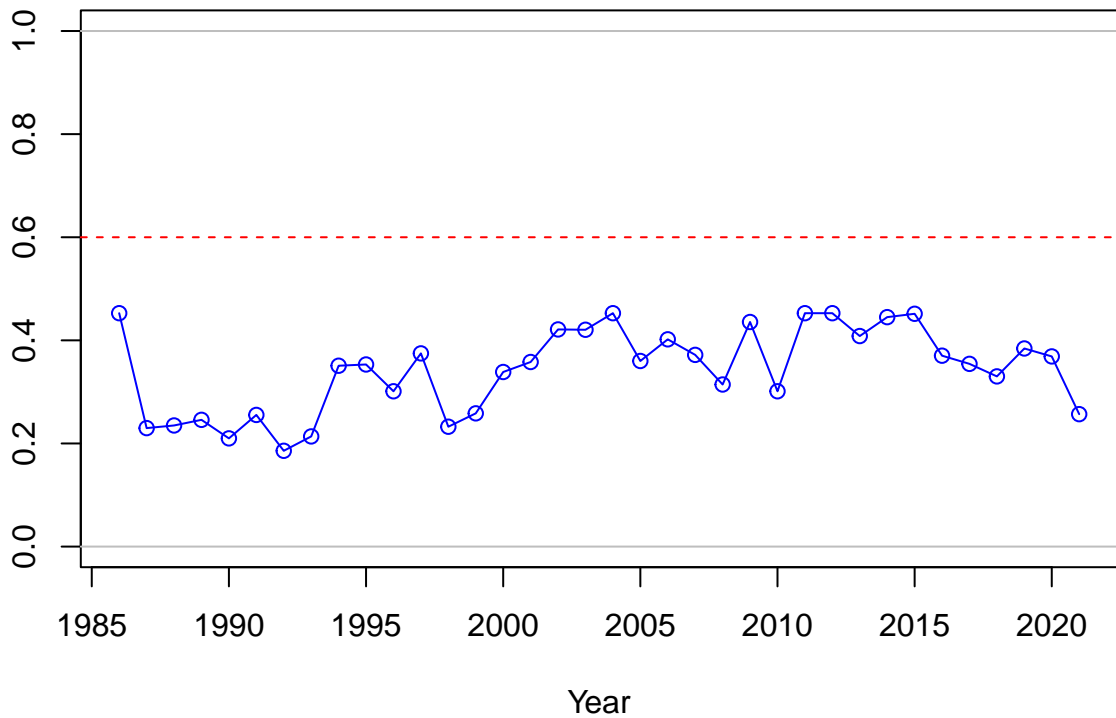




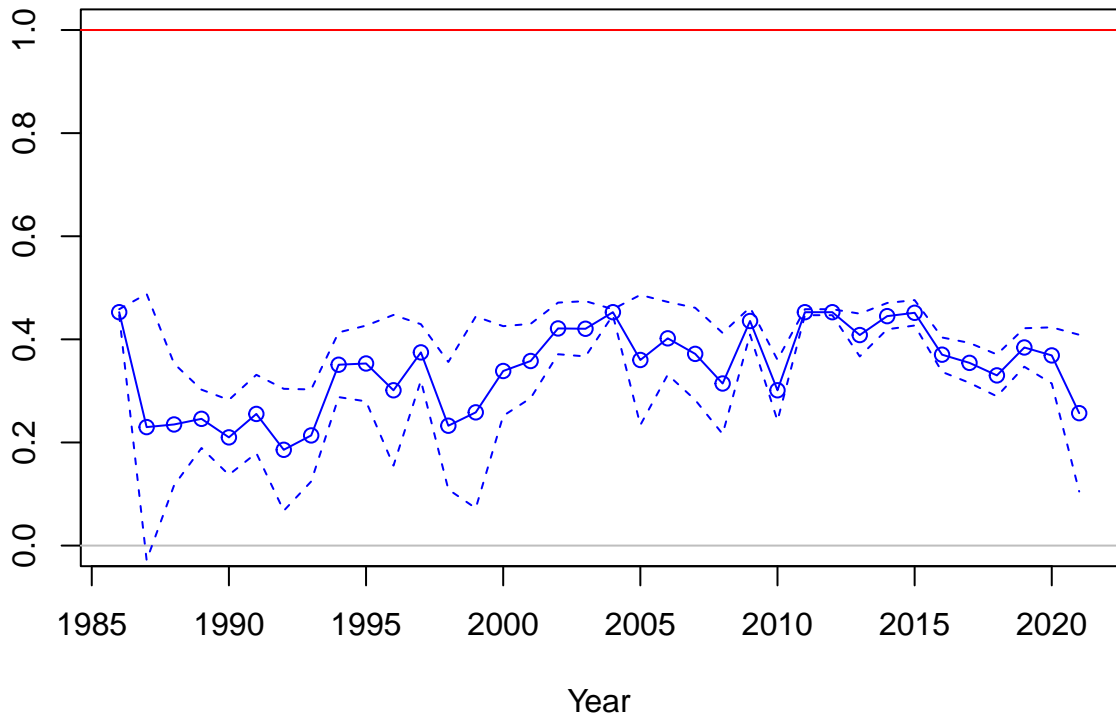
SPR



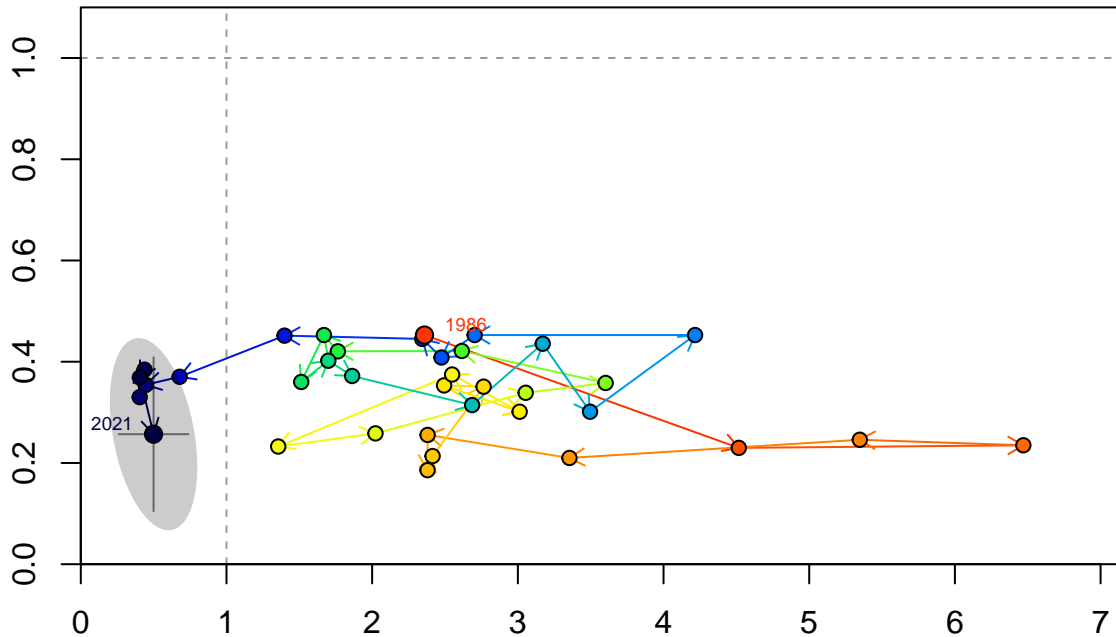
1-SPR



Fishing intensity: 1-SPR

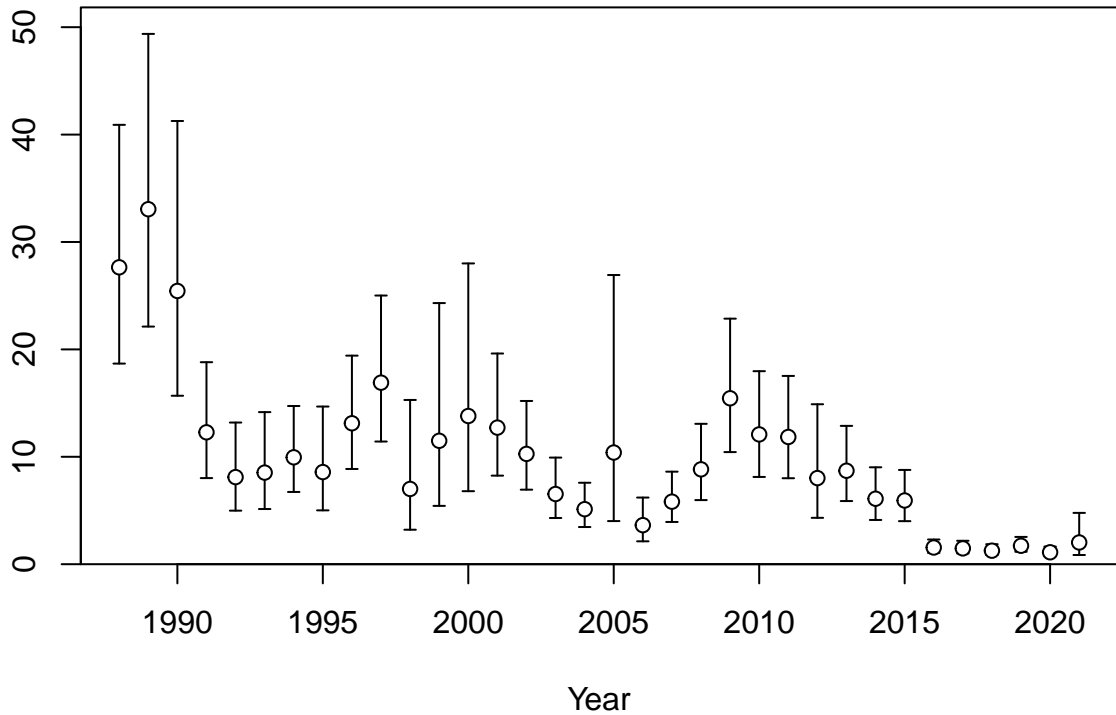


Fishing intensity: 1-SPR

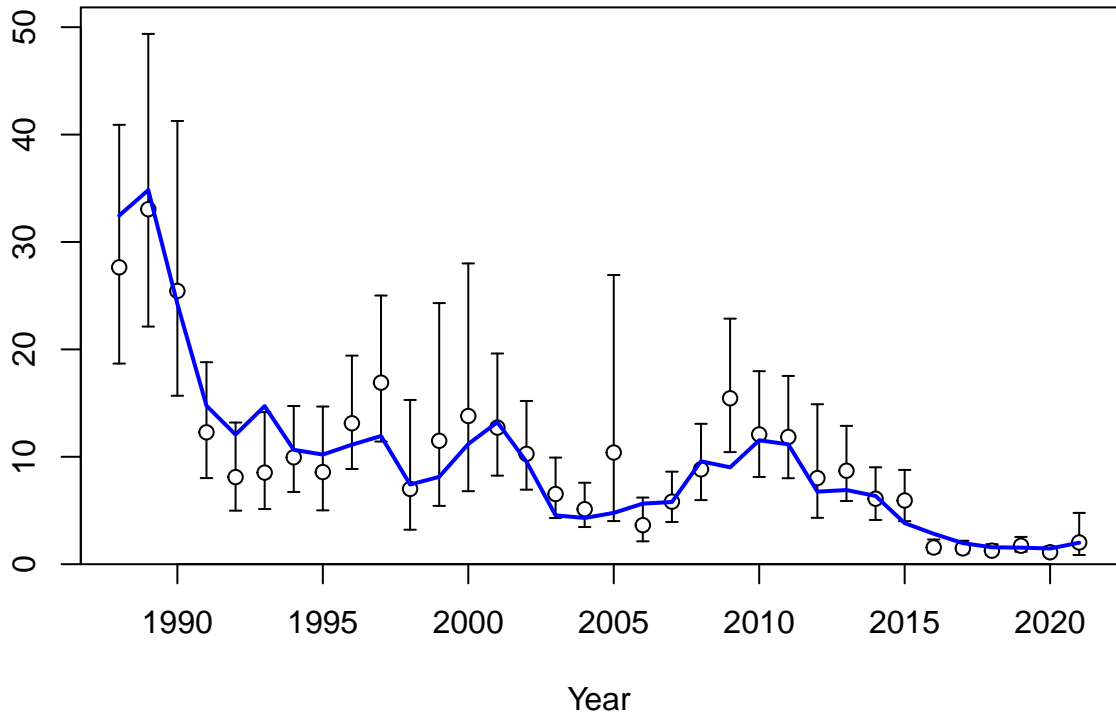


Relative spawning output: B/B_{MSY}

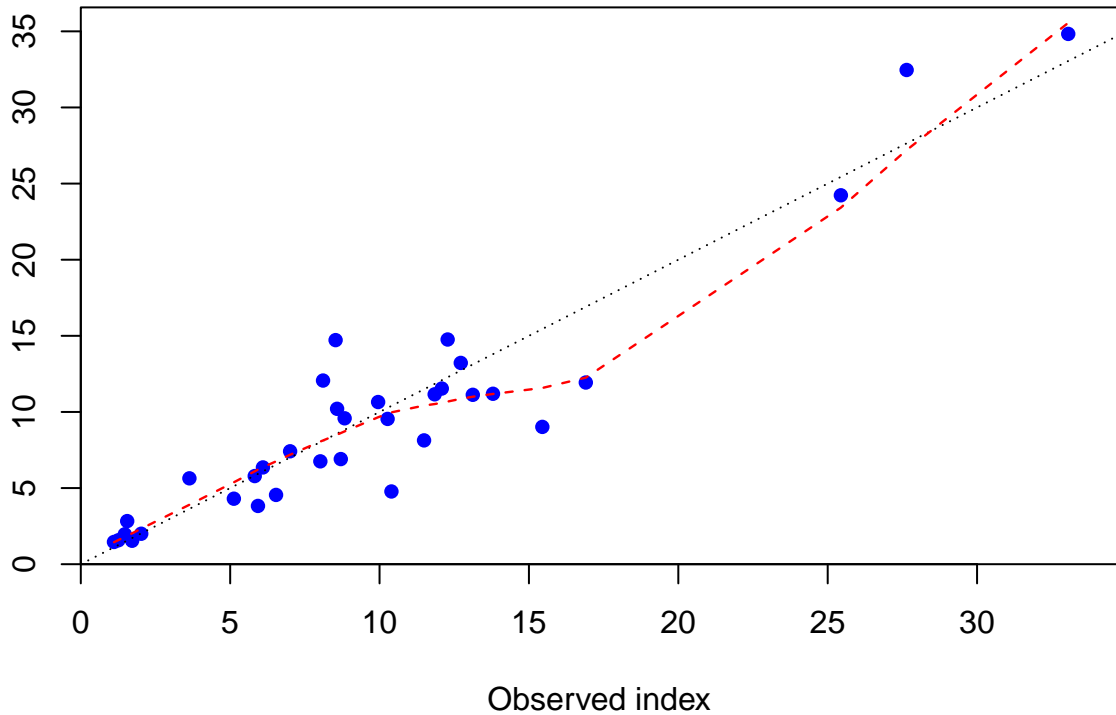
Index



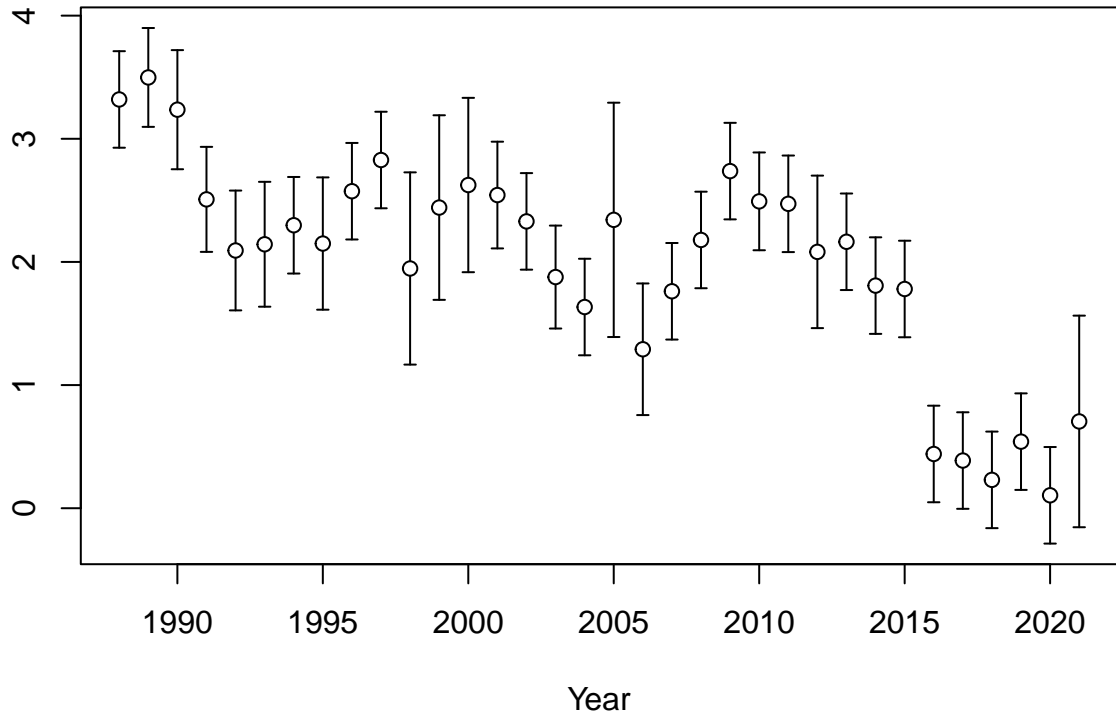
Index



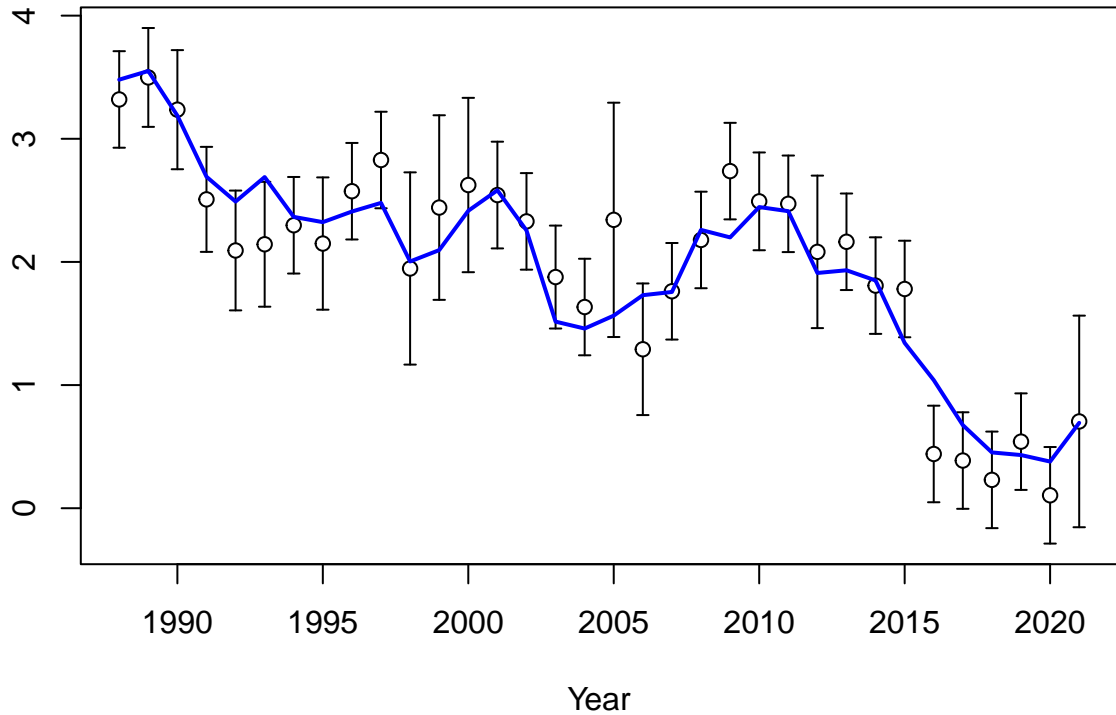
Expected index

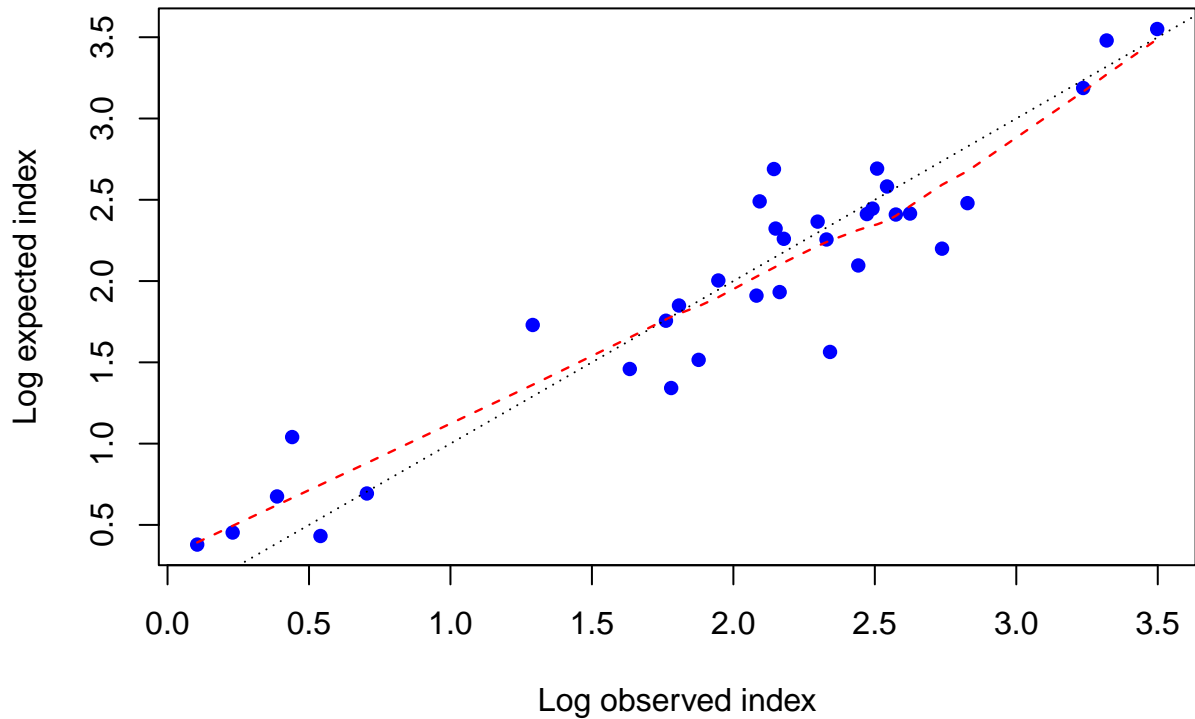


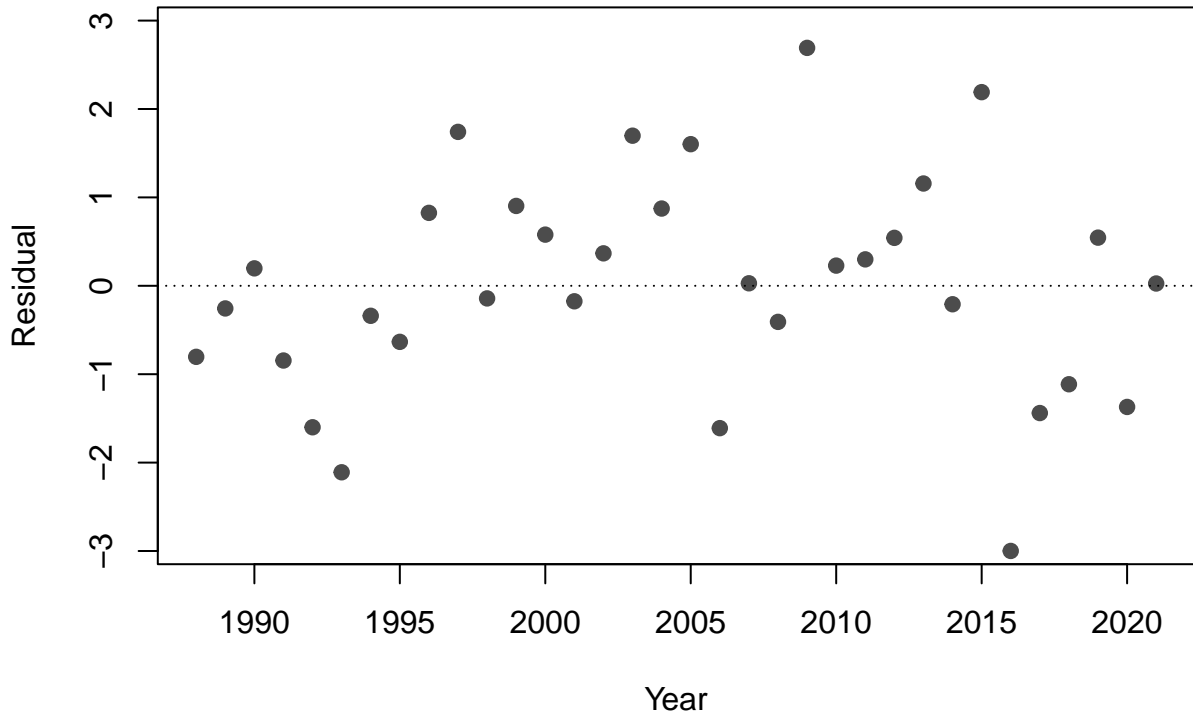
Log index

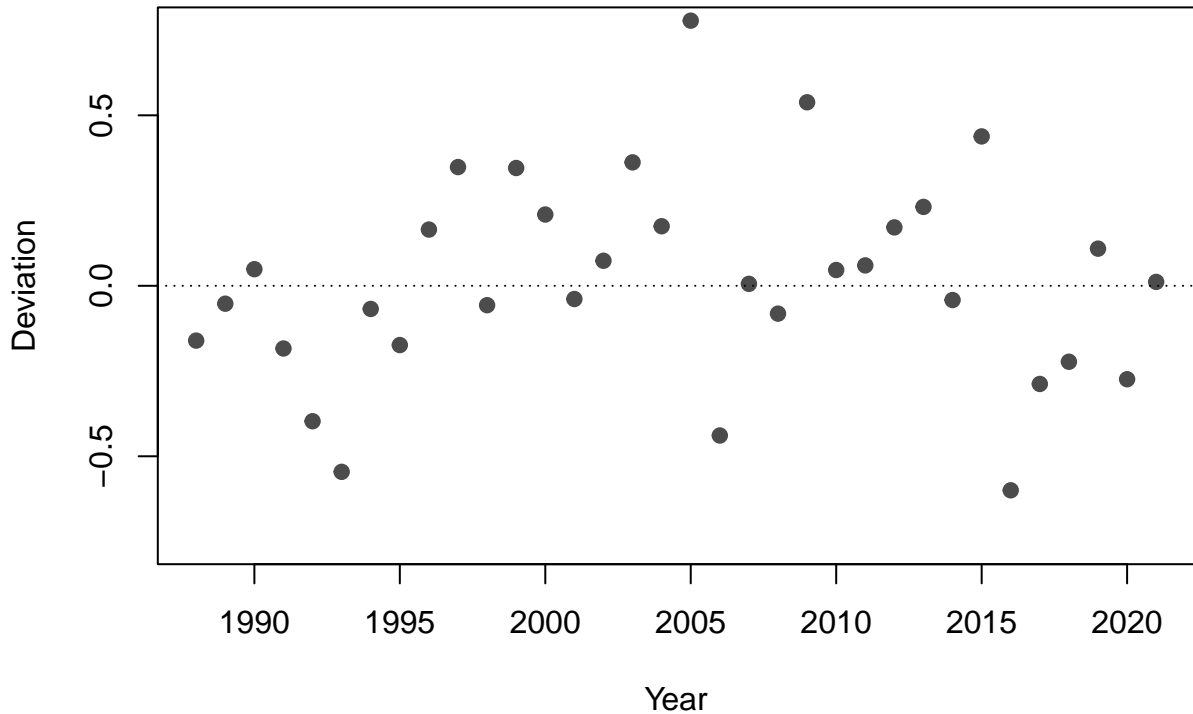


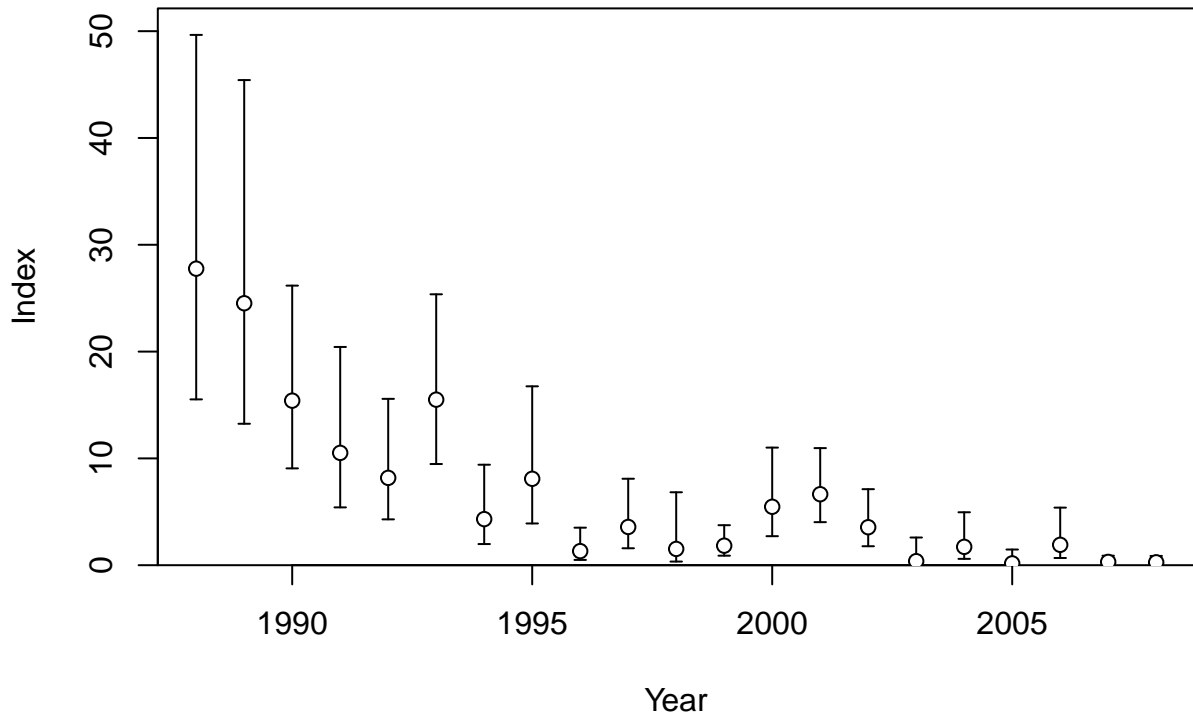
Log index

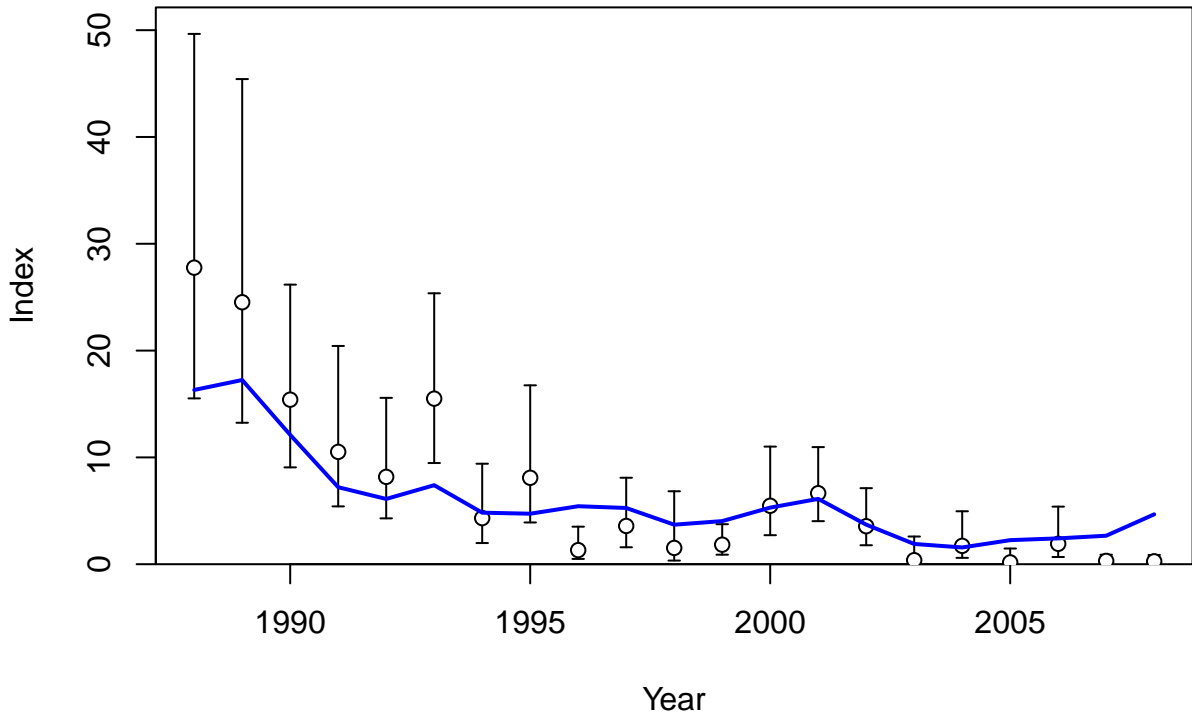


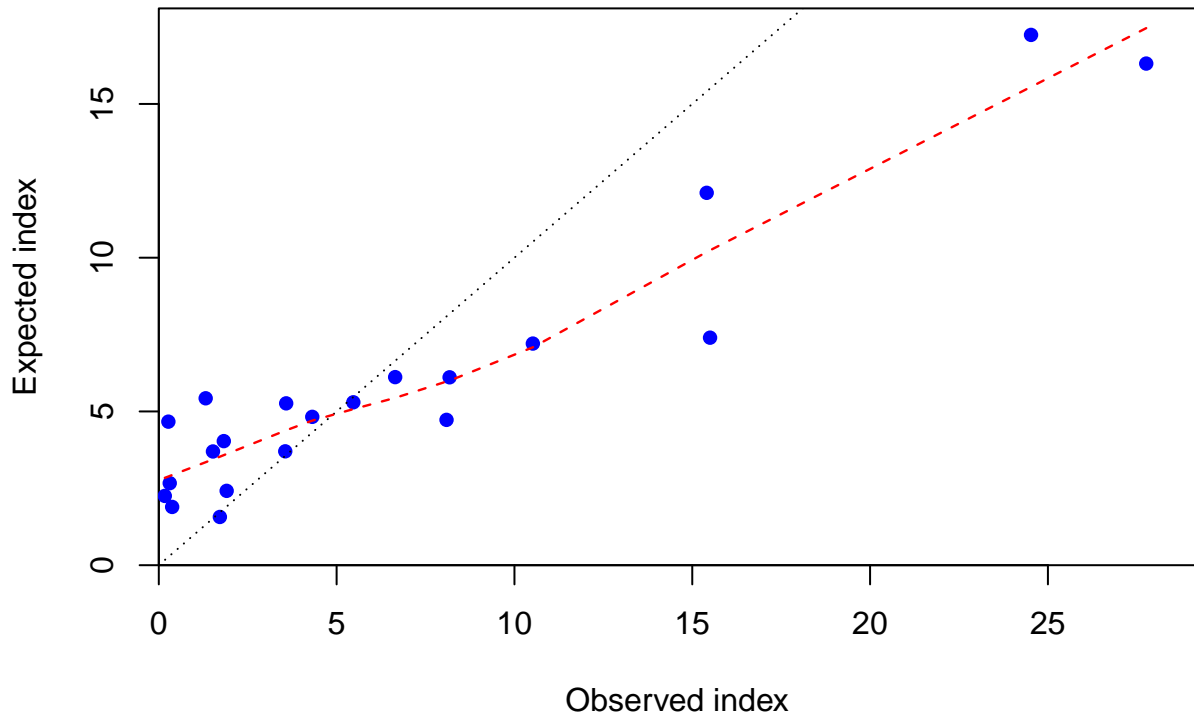


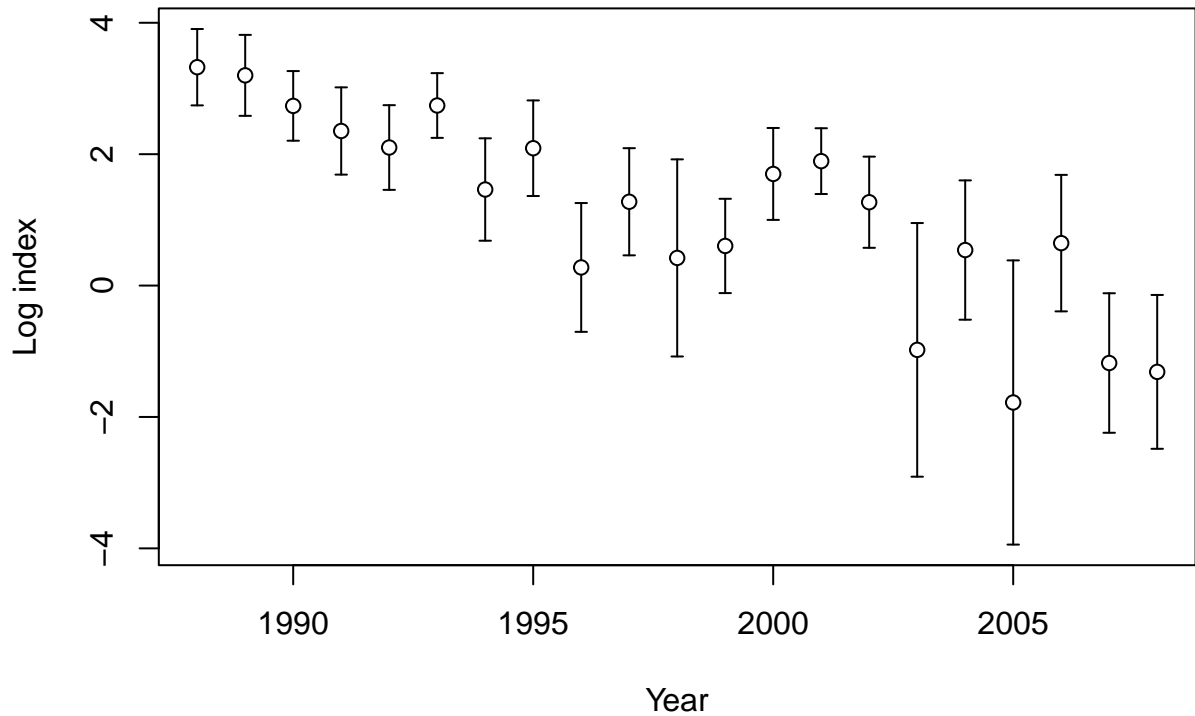


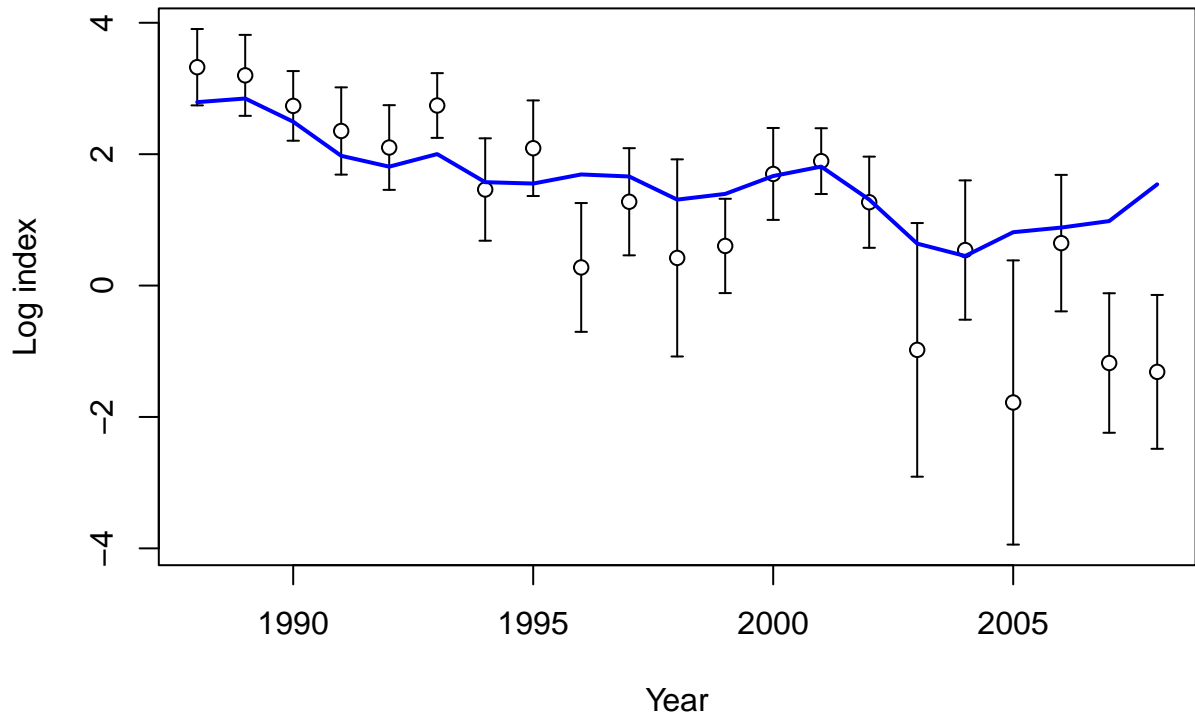


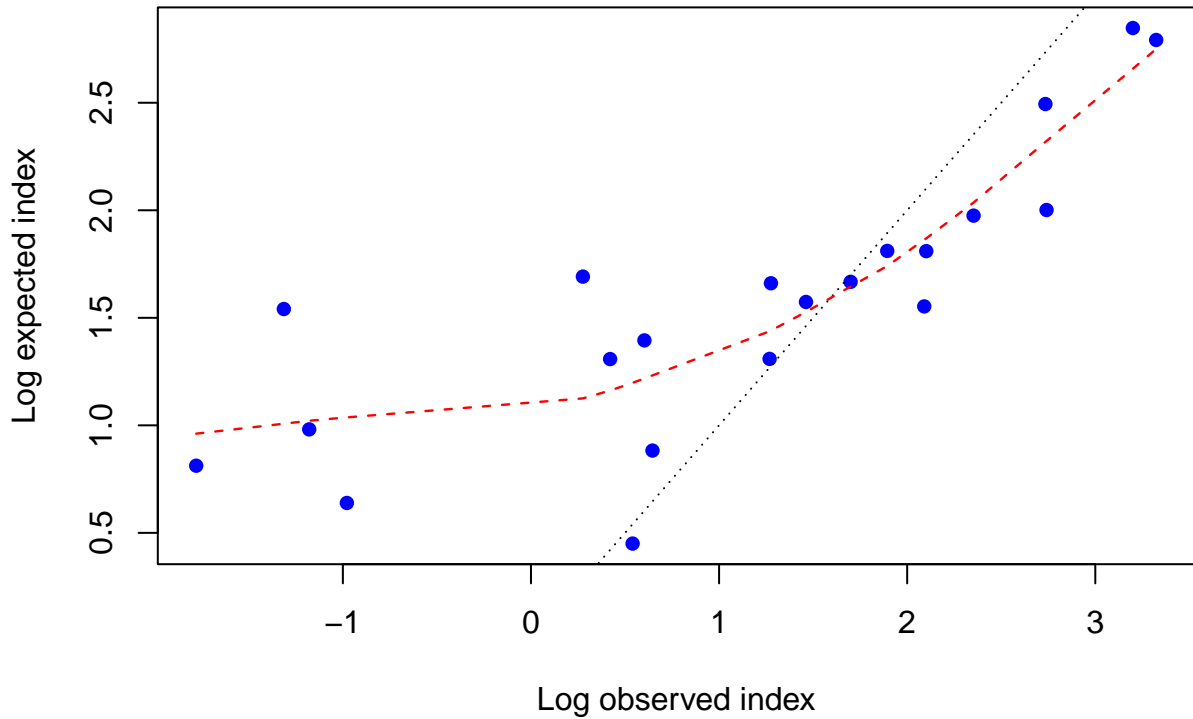




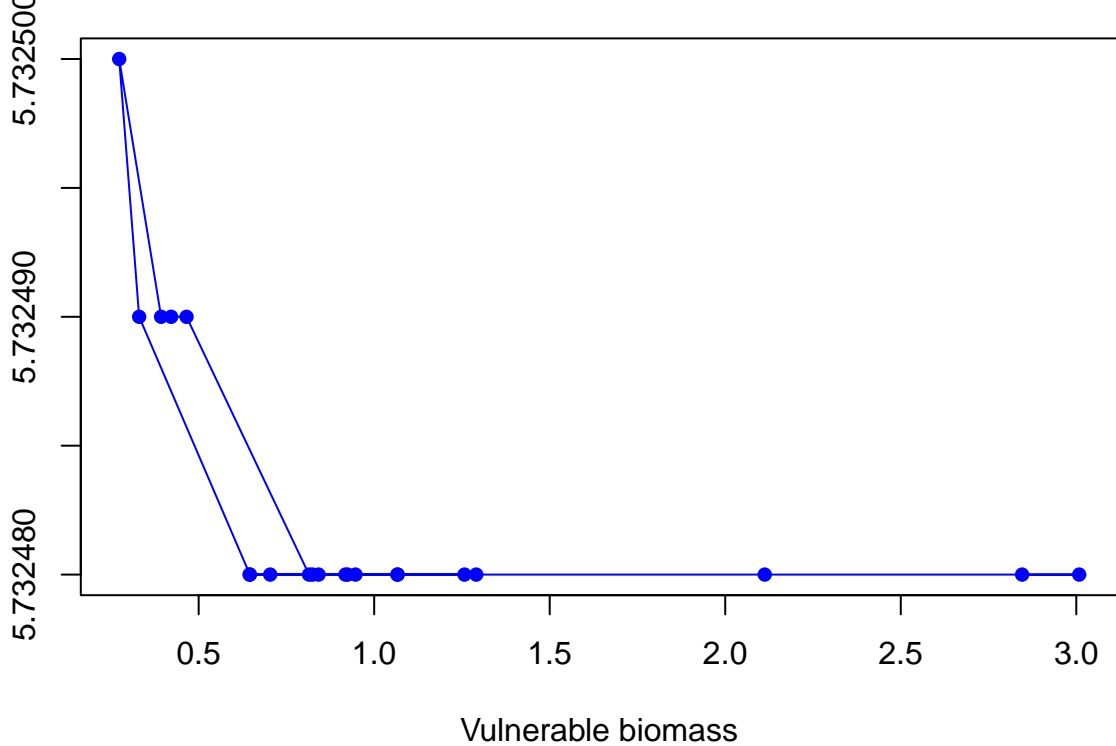


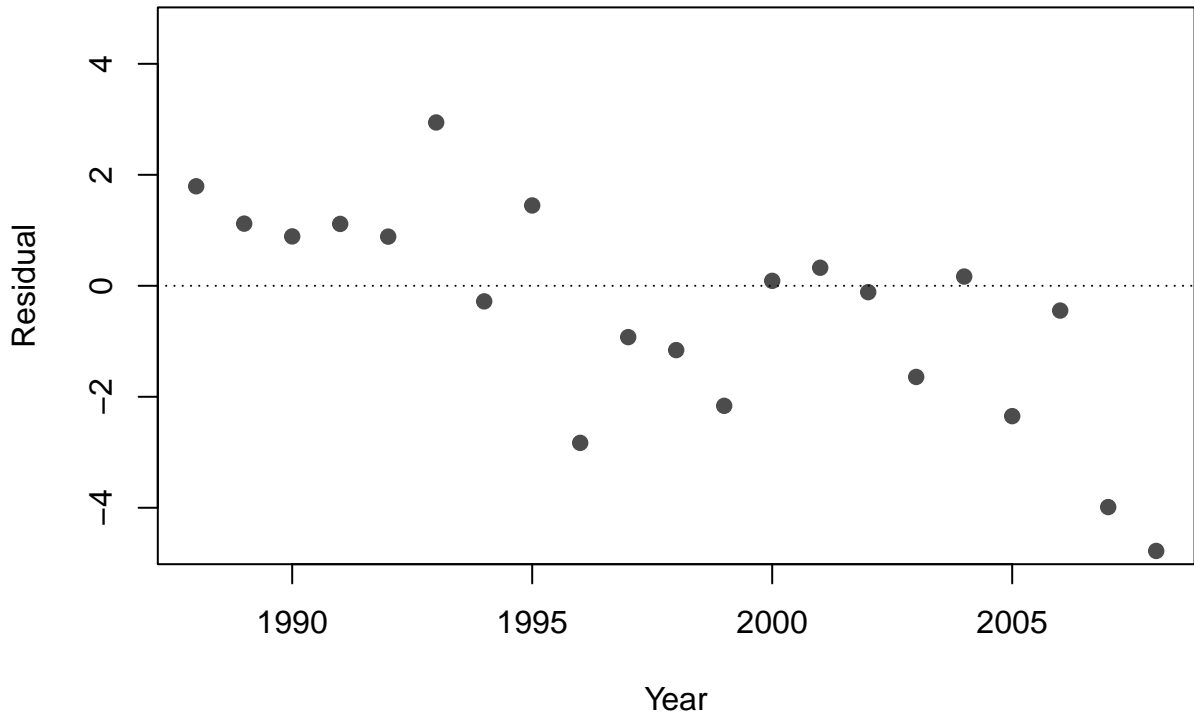


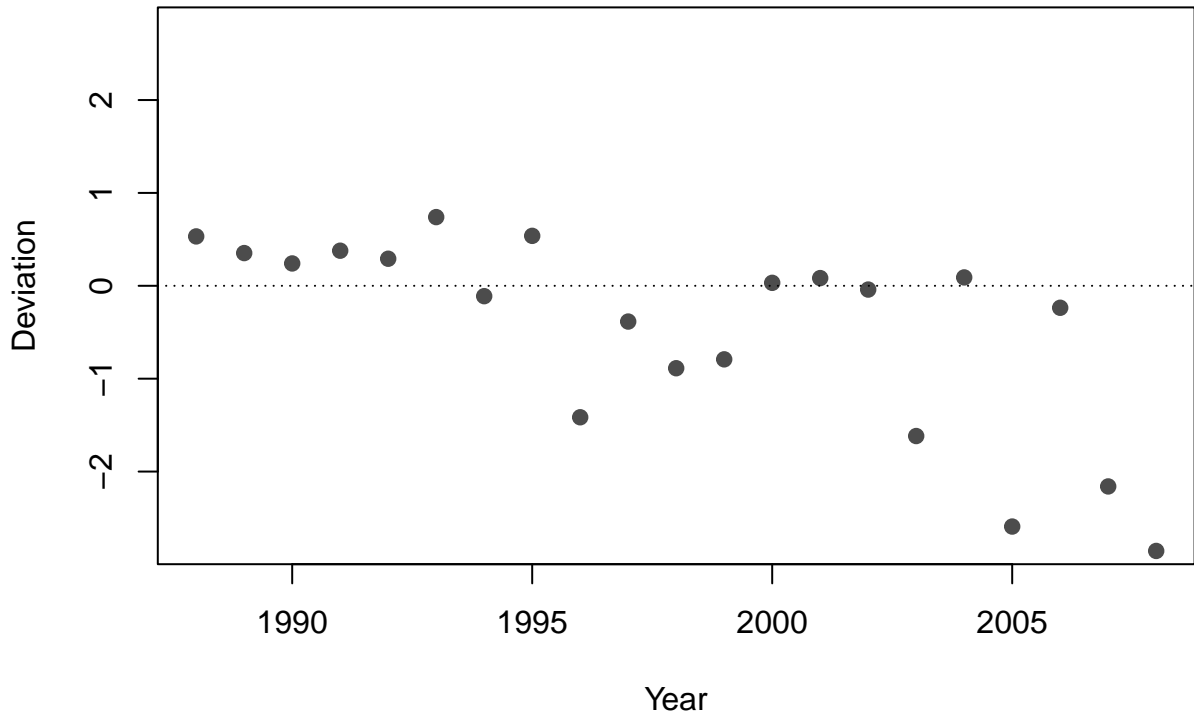


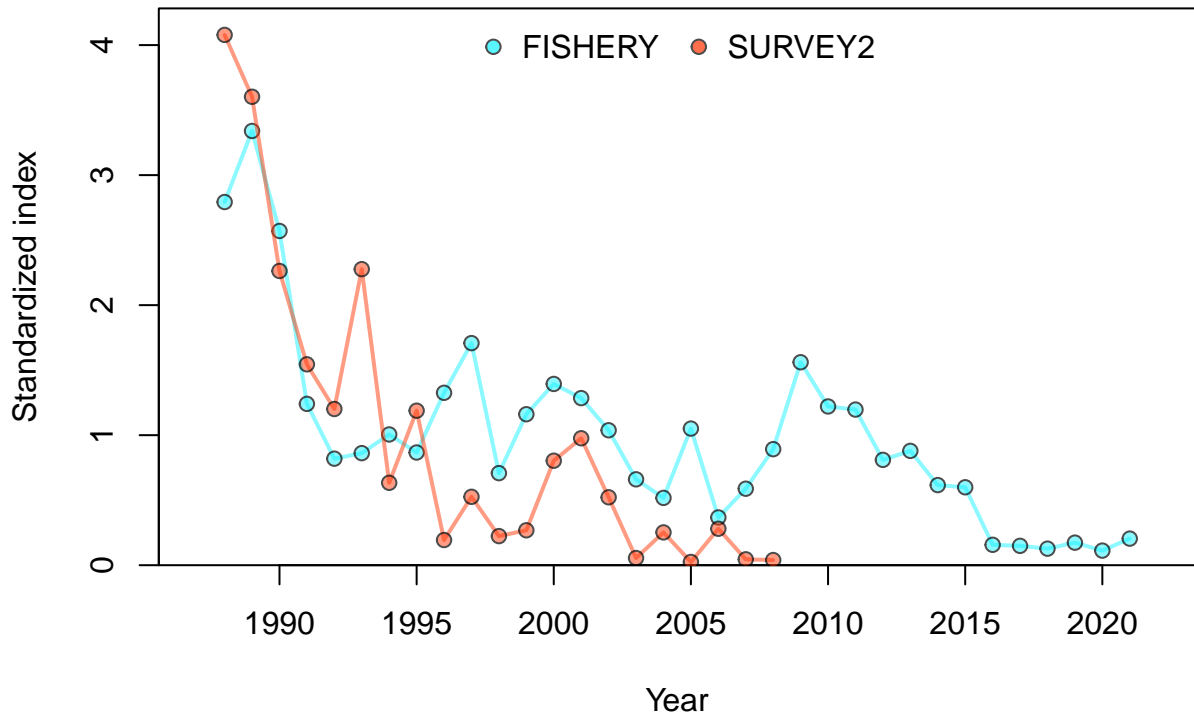


Effective catchability

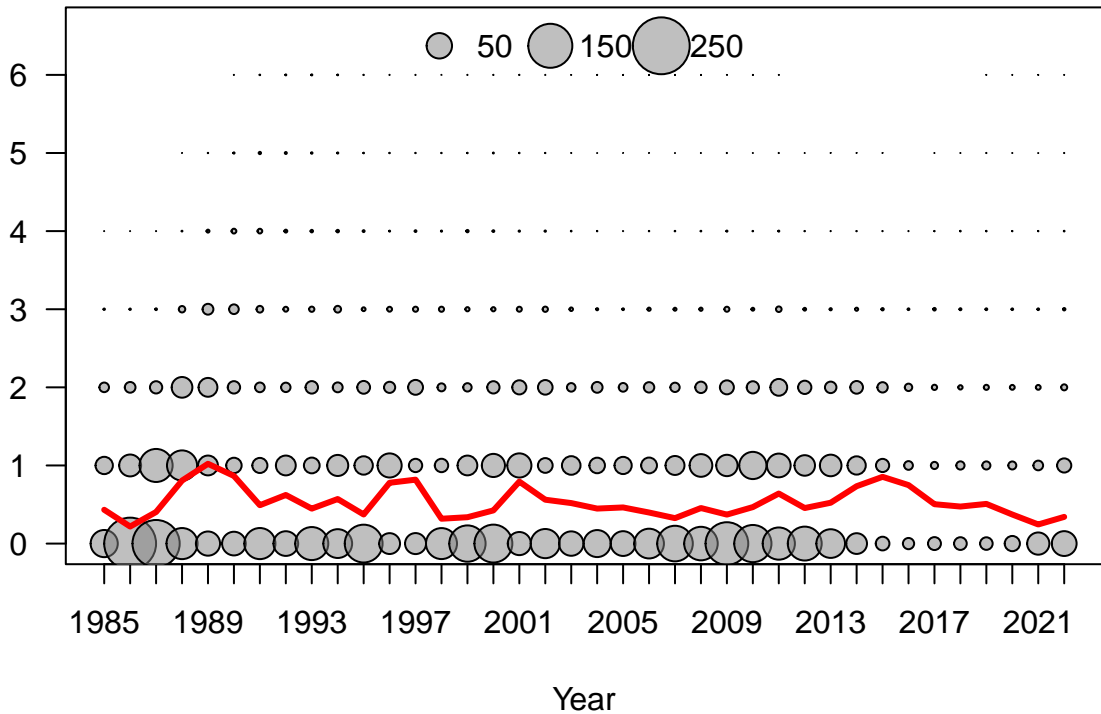




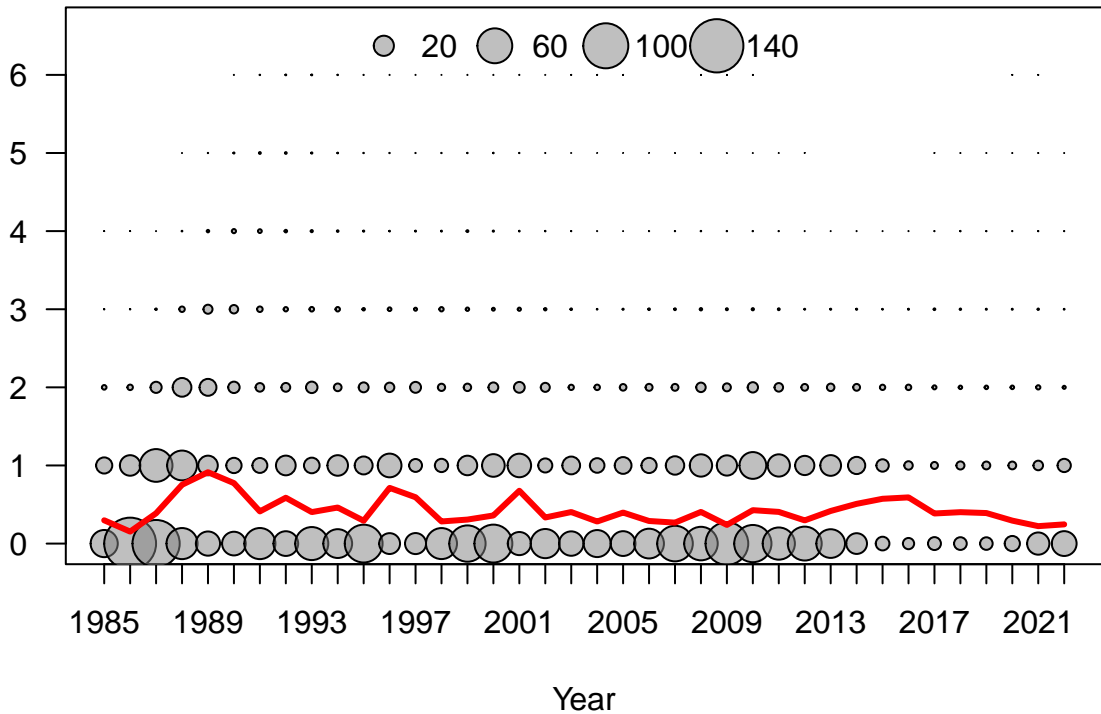


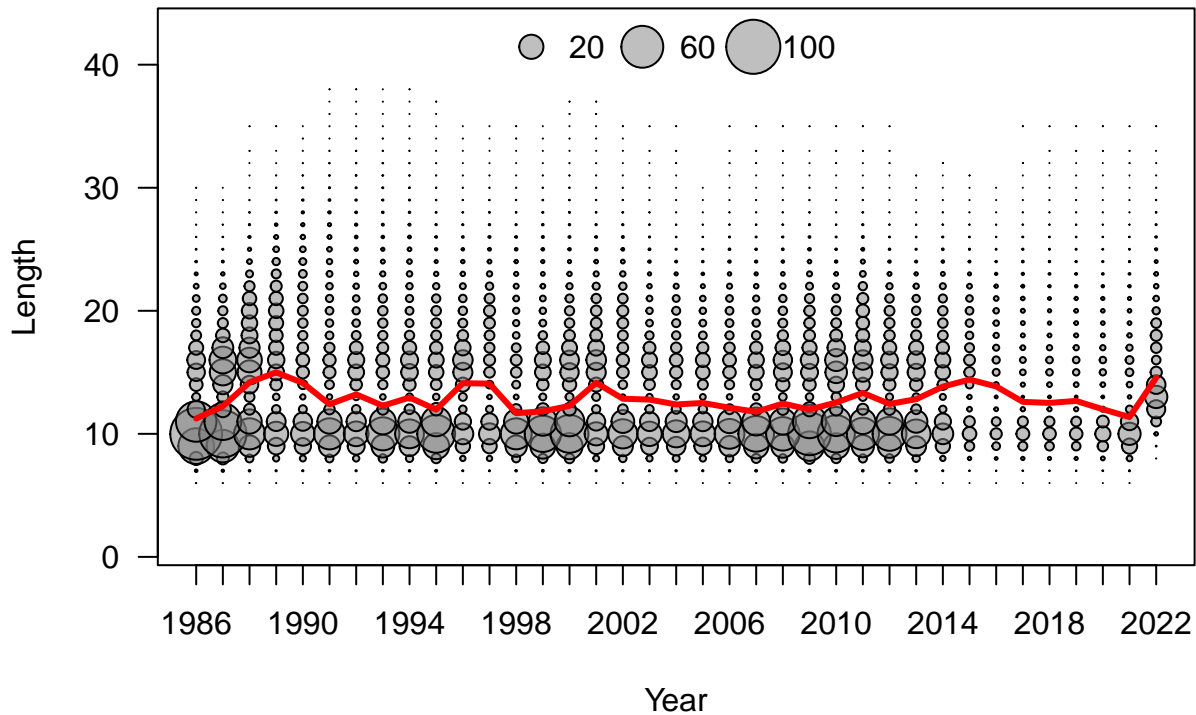


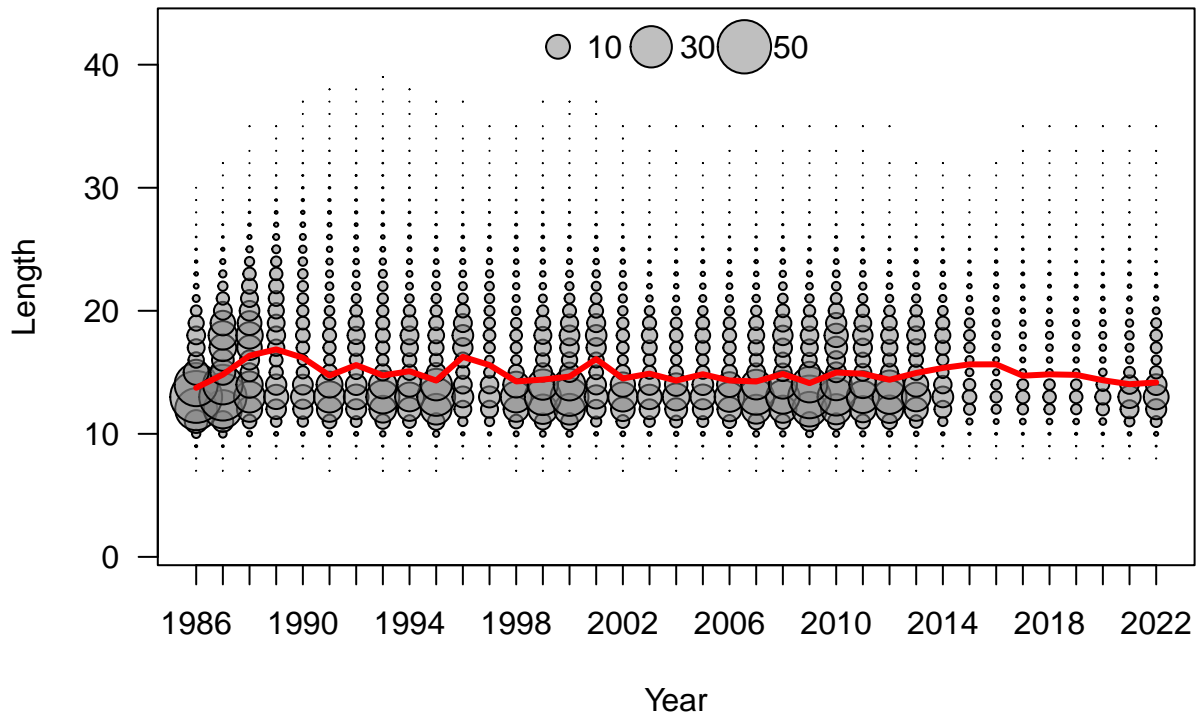
Age

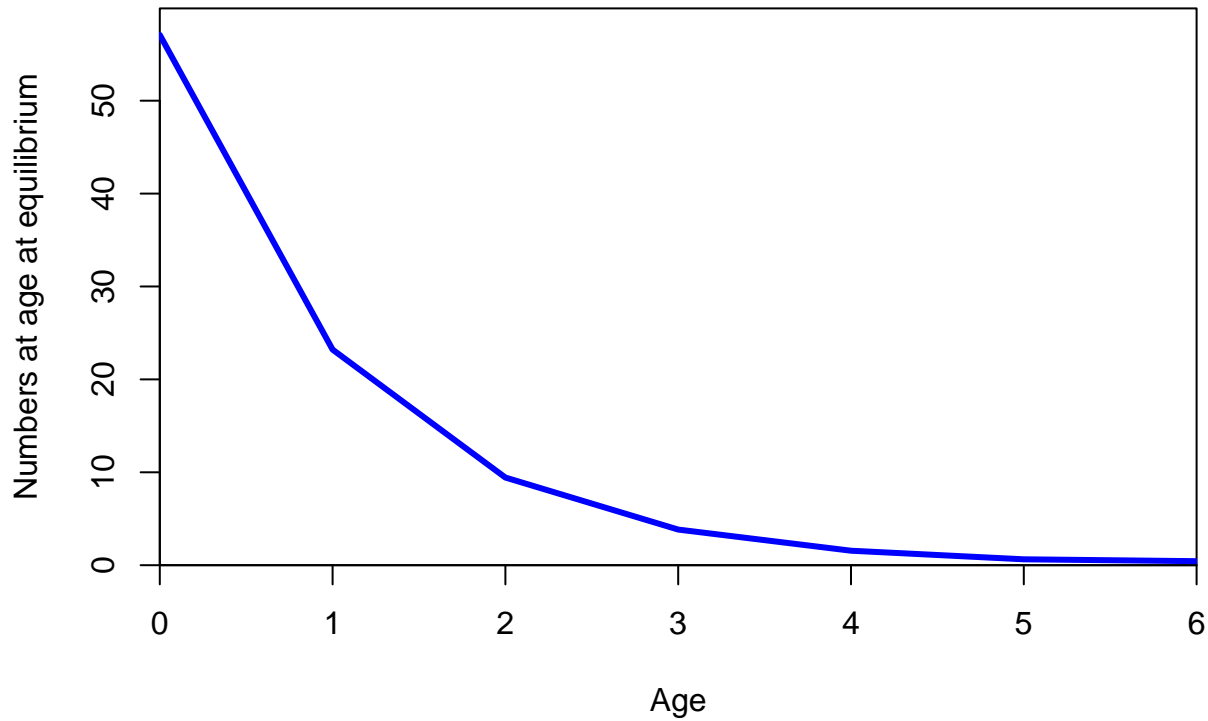


Age



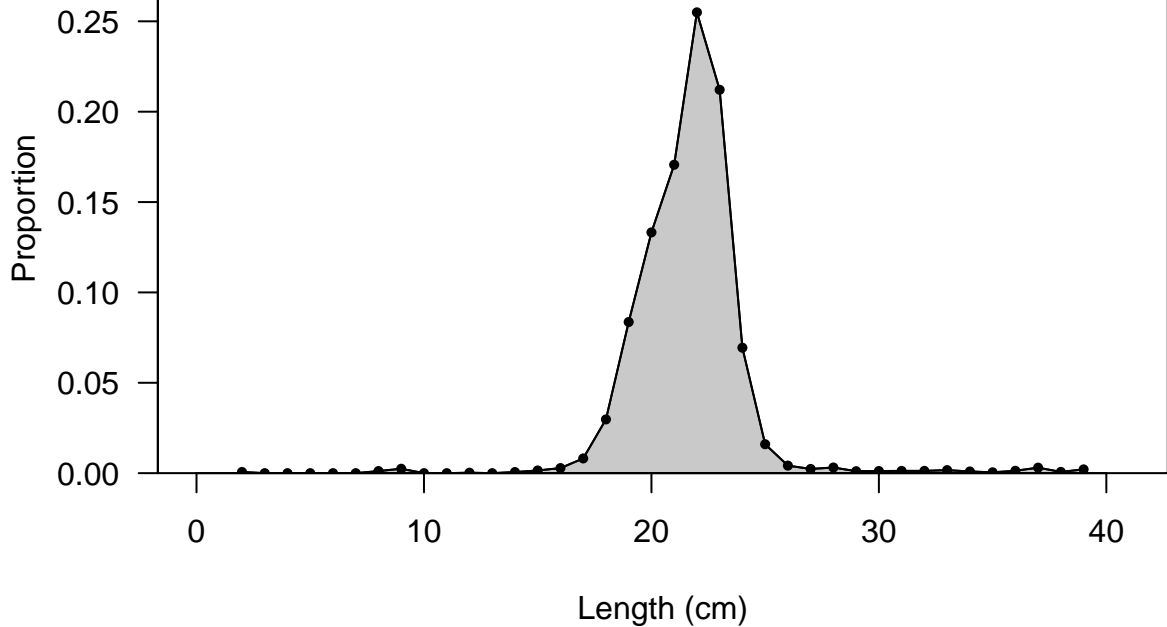


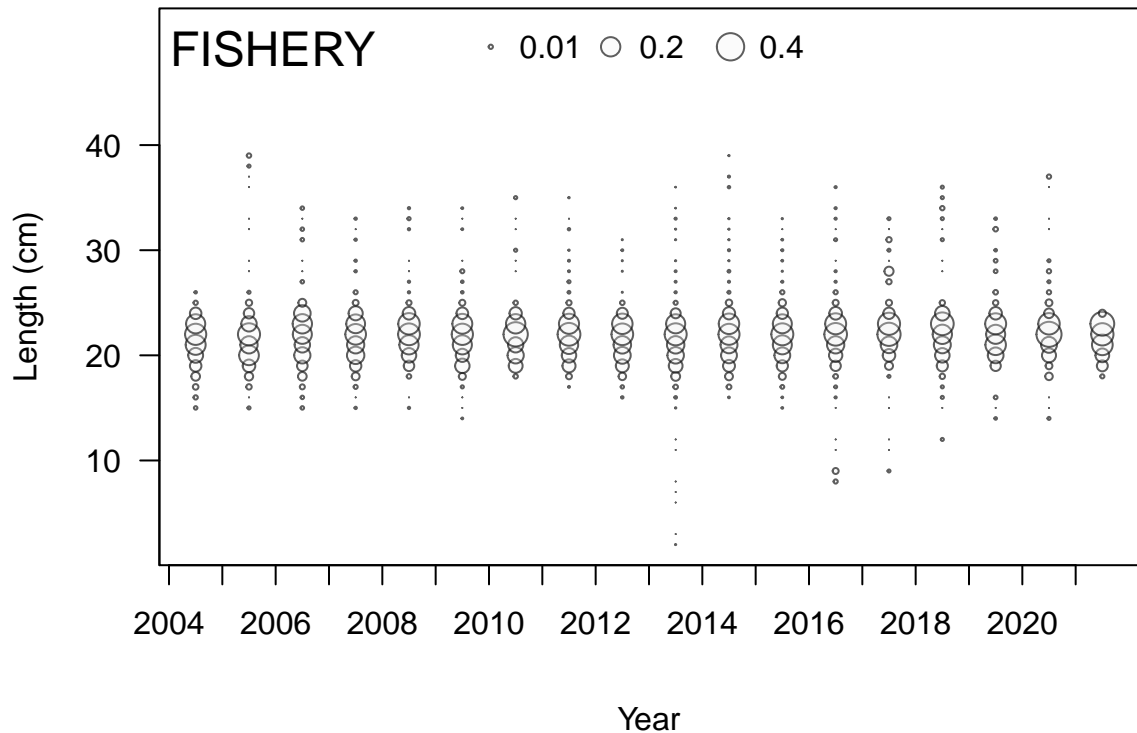




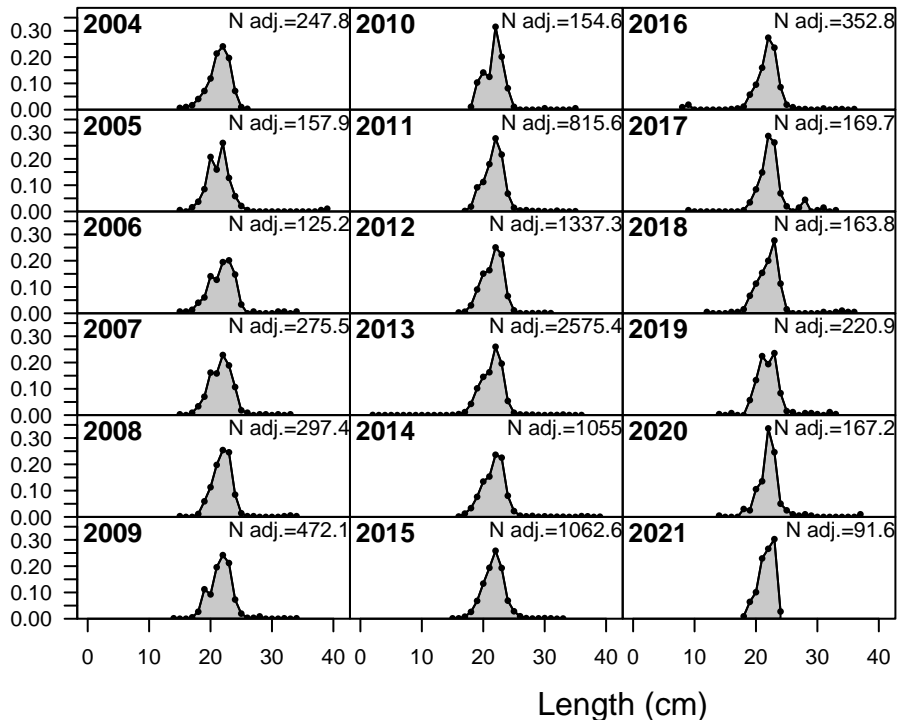
FISHERY

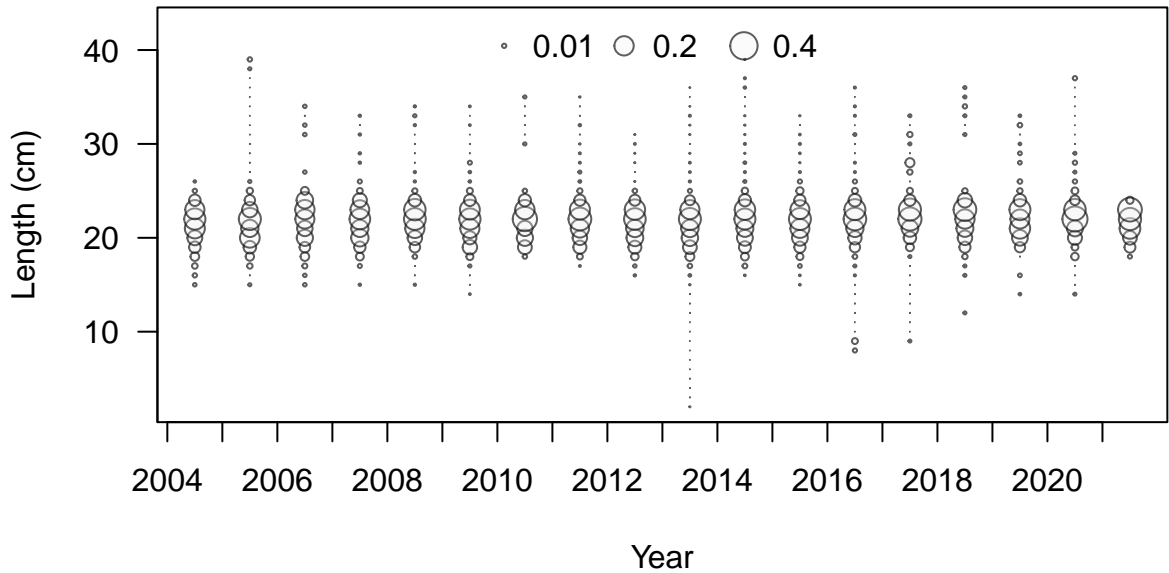
Sum of N adj.=9742.3



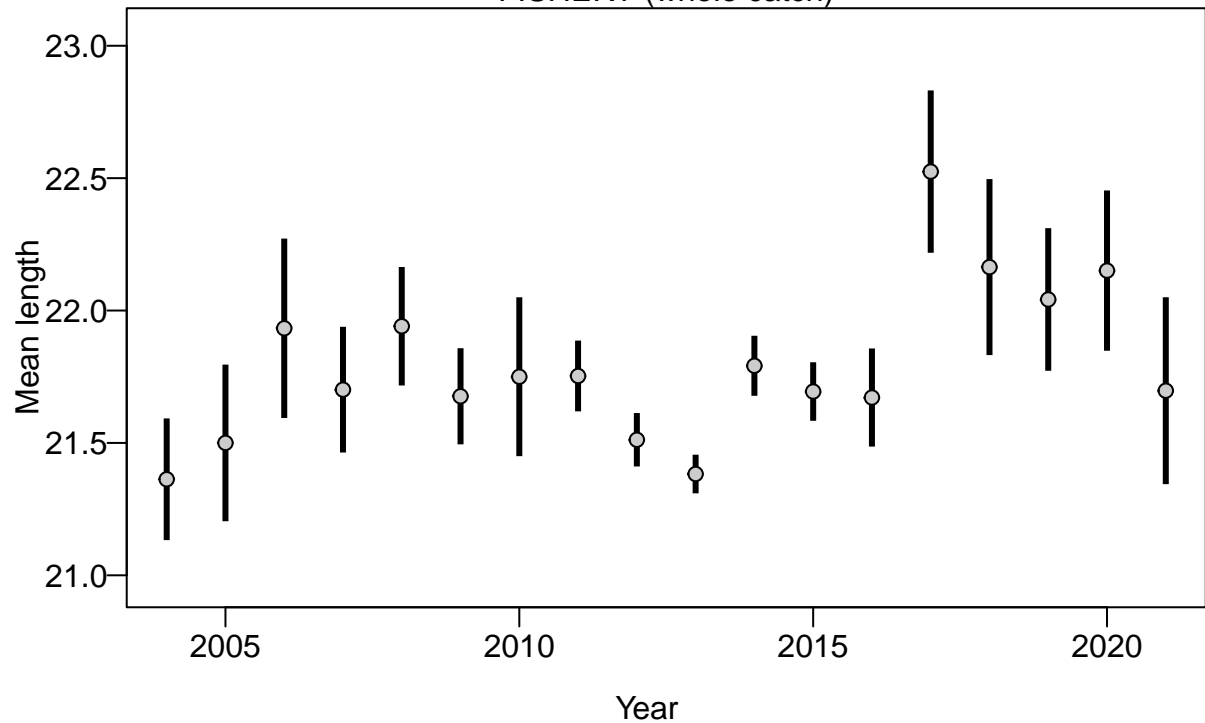


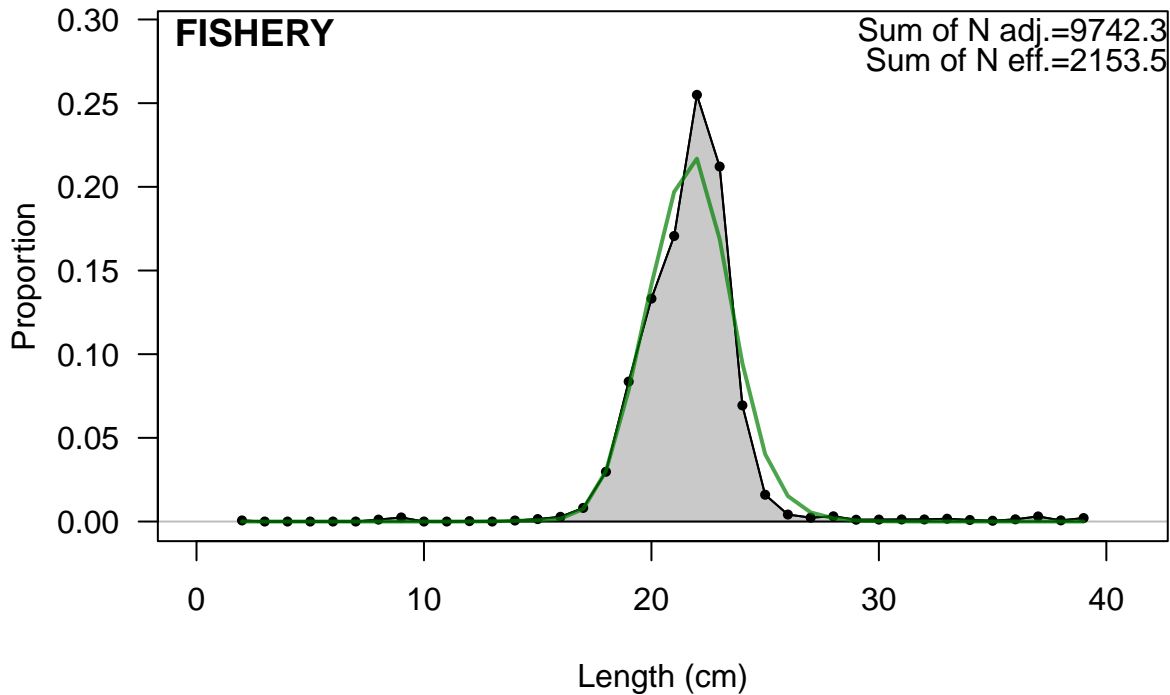
Proportion

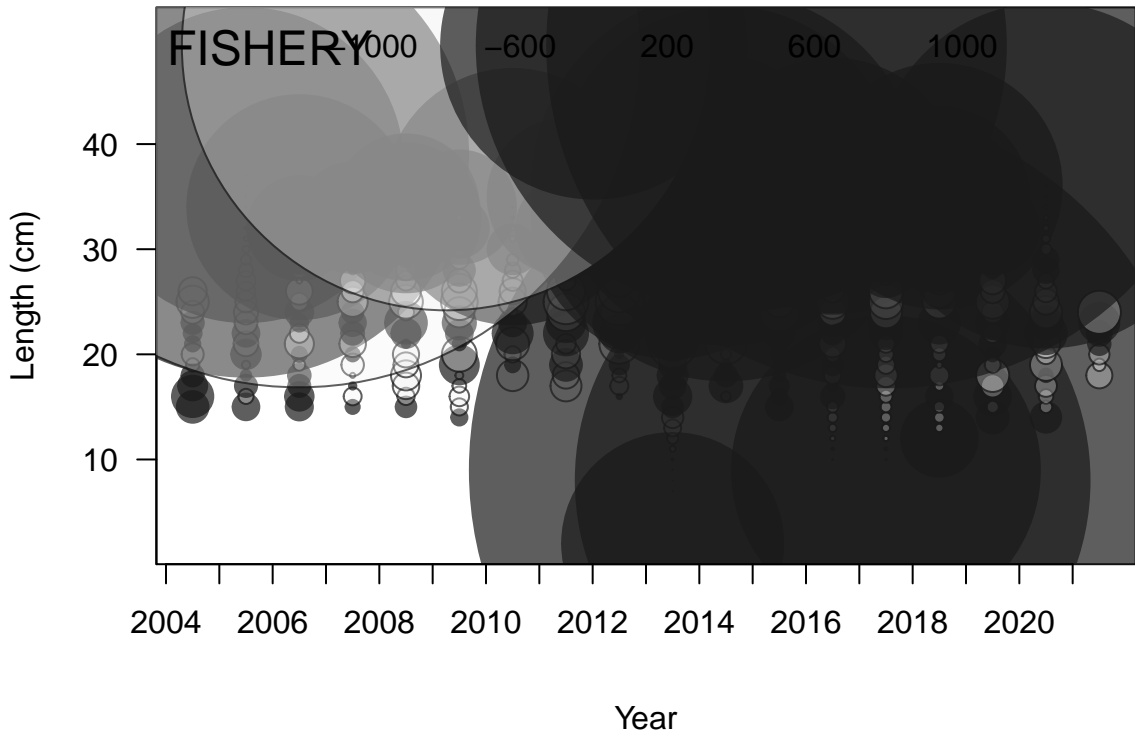


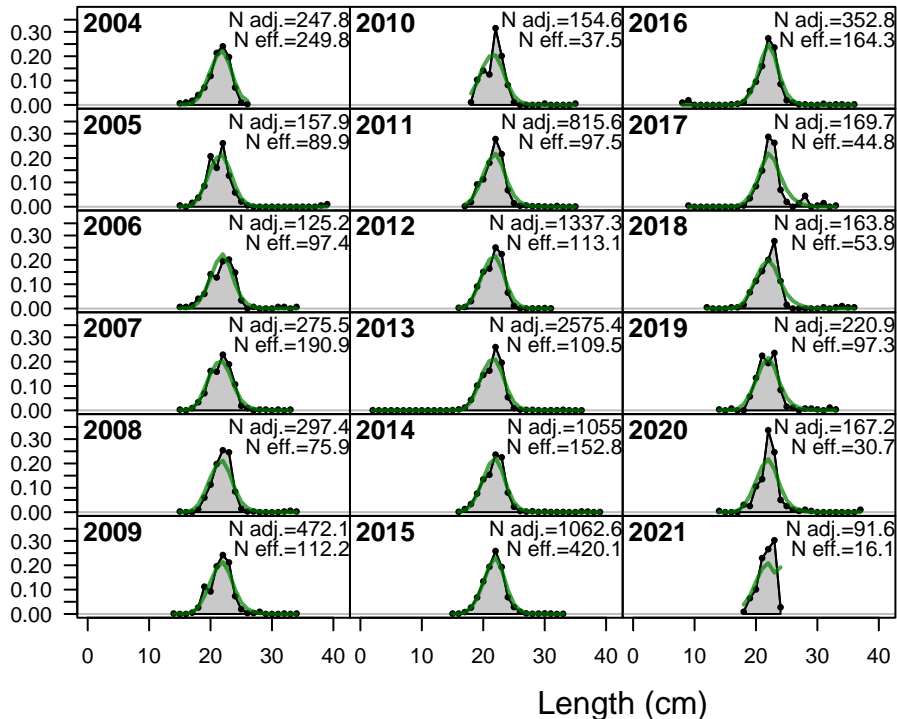


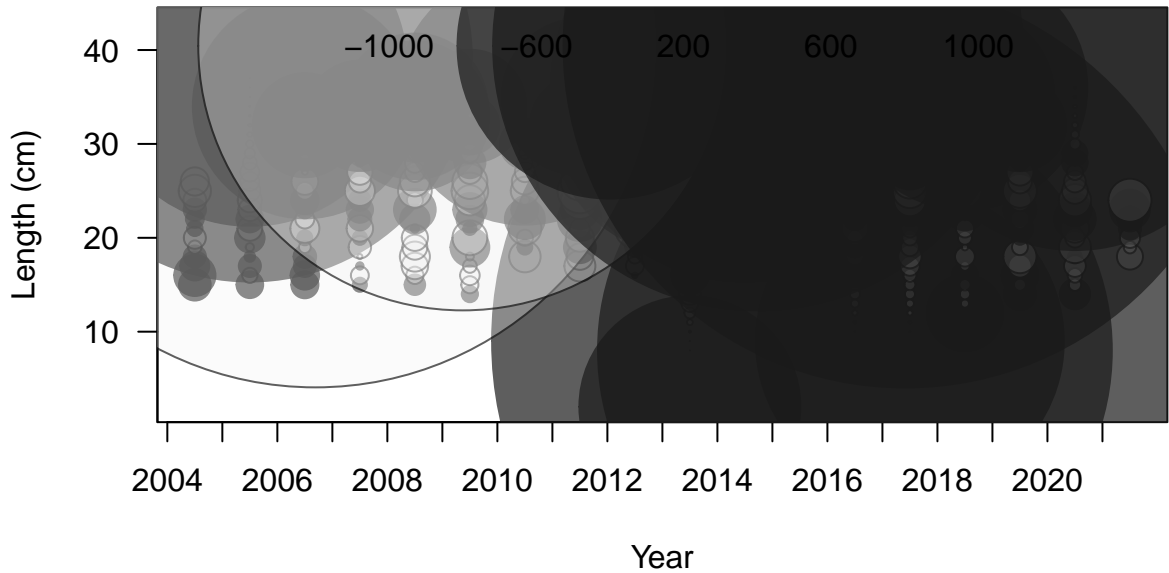
FISHERY (whole catch)



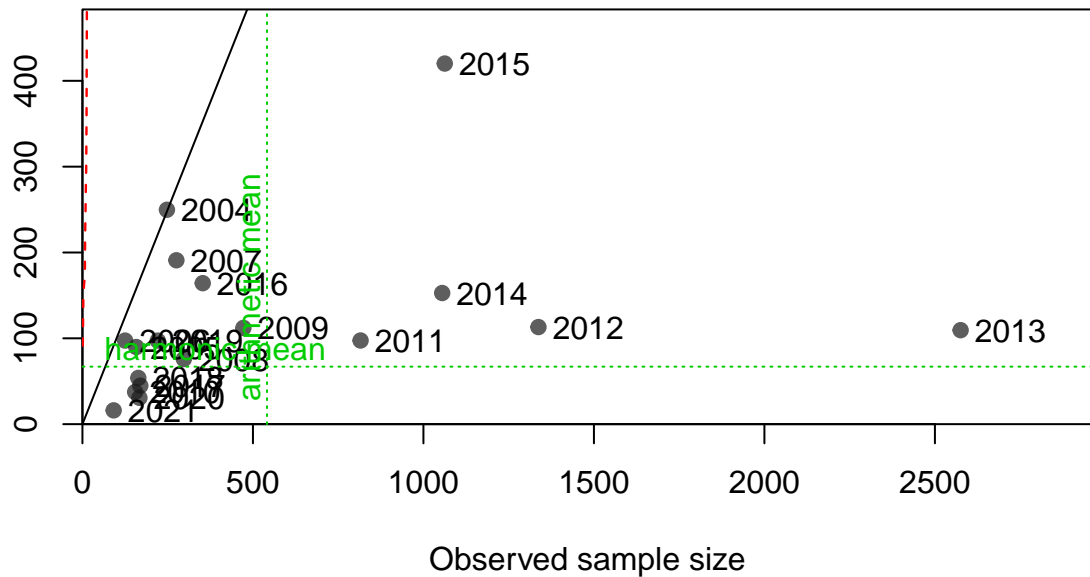




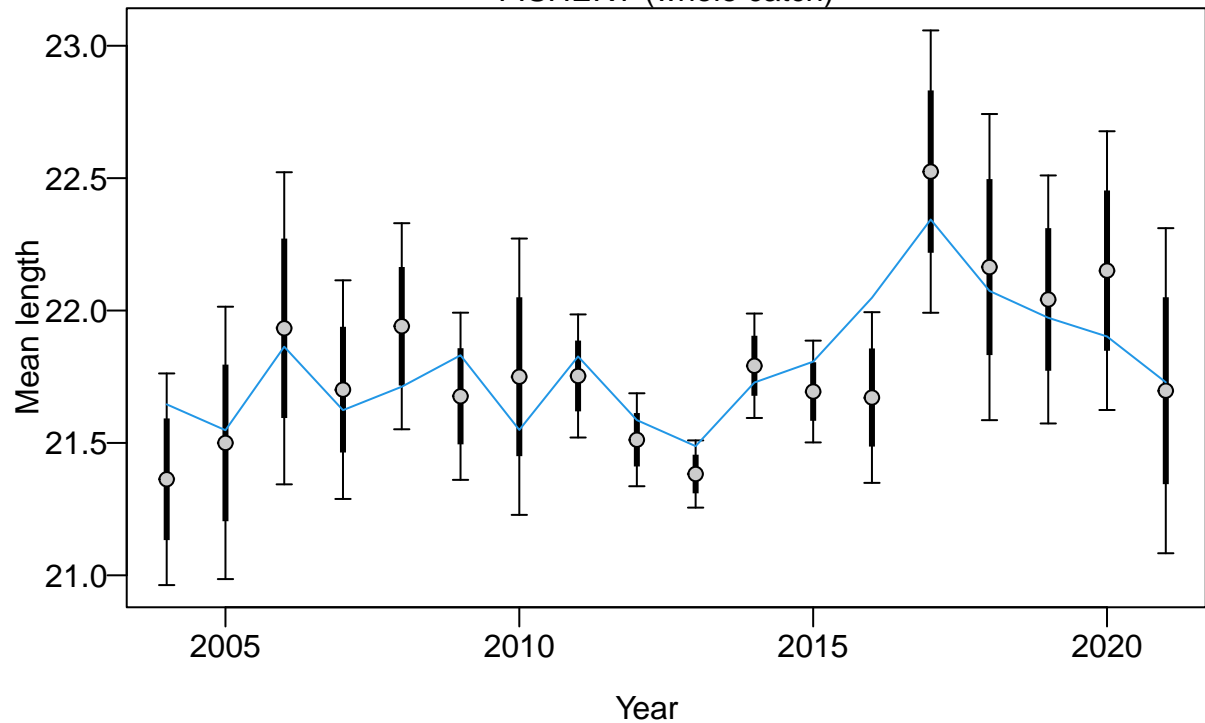


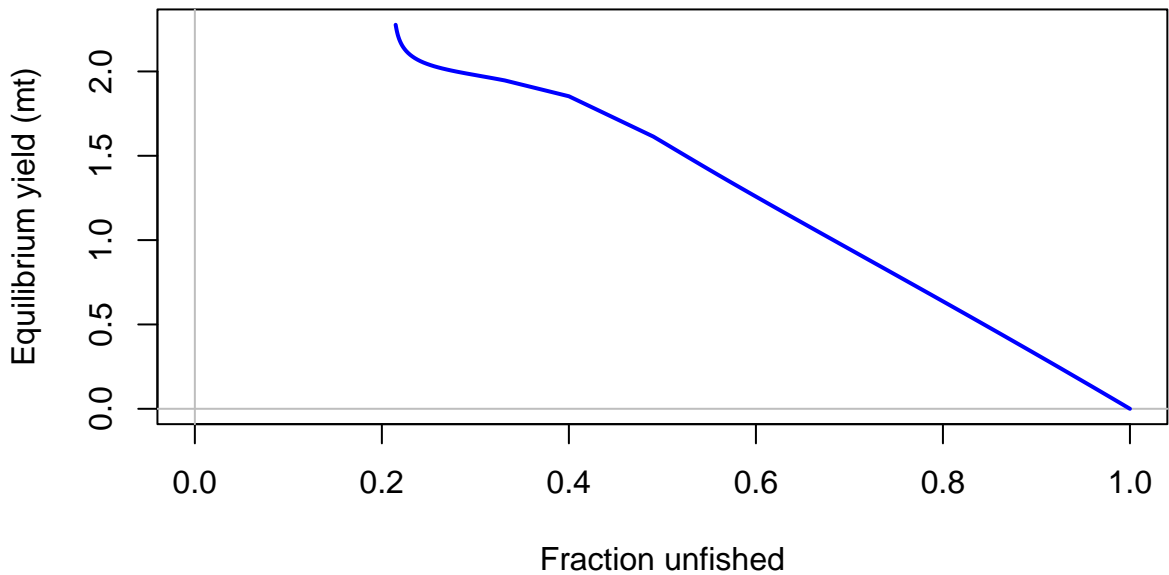


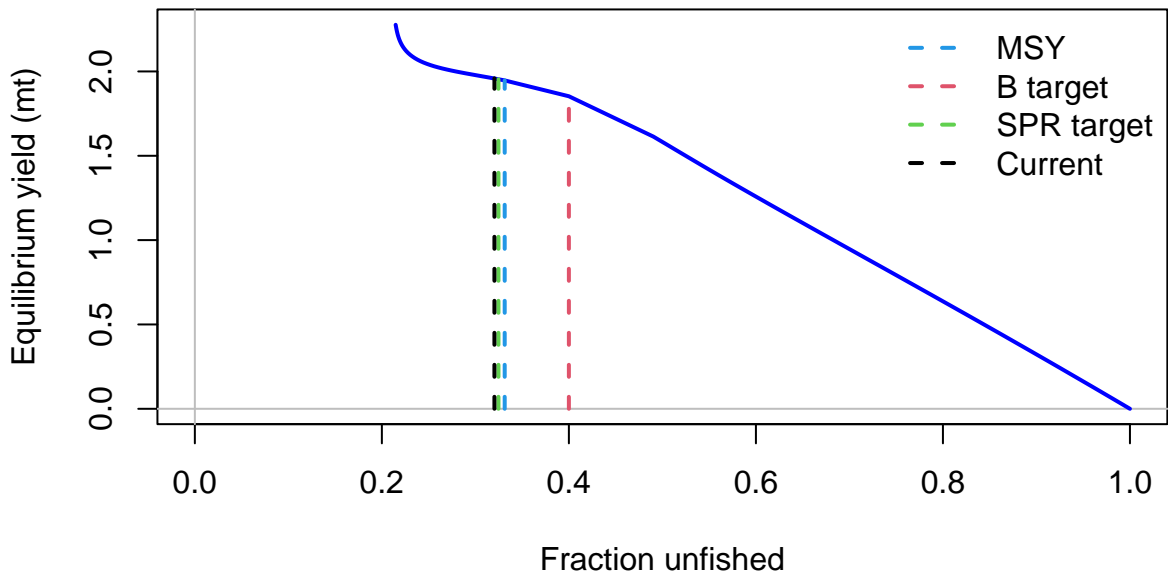
Effective sample size

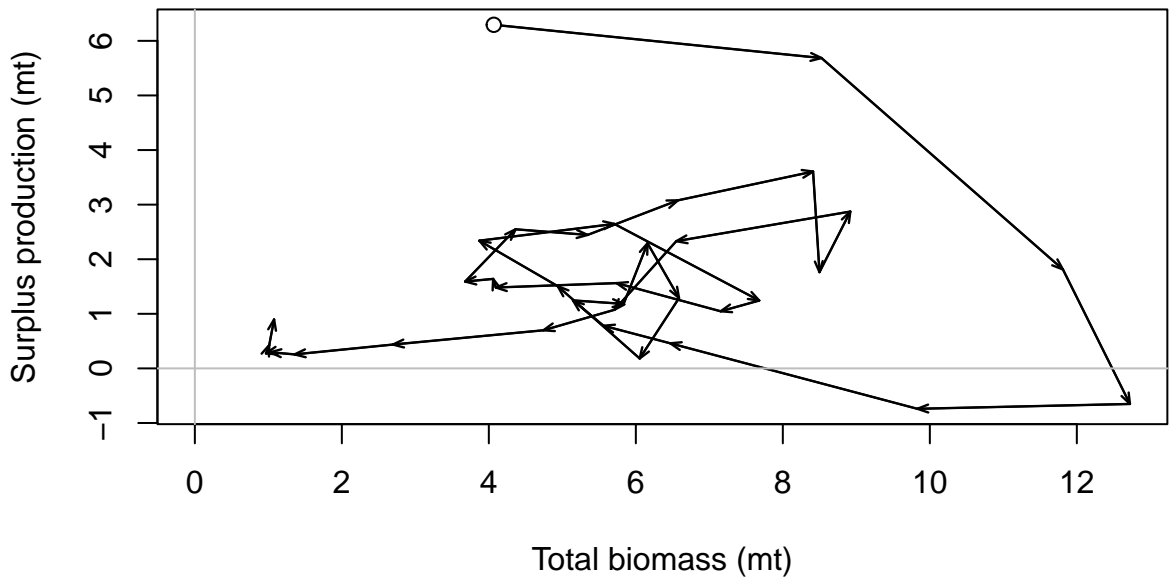


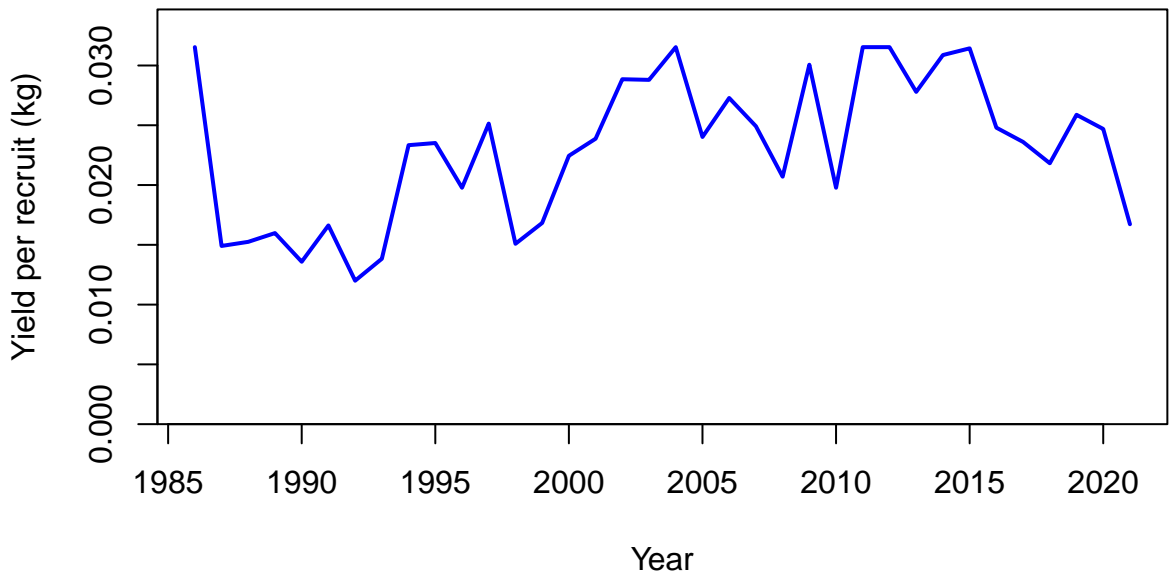
FISHERY (whole catch)

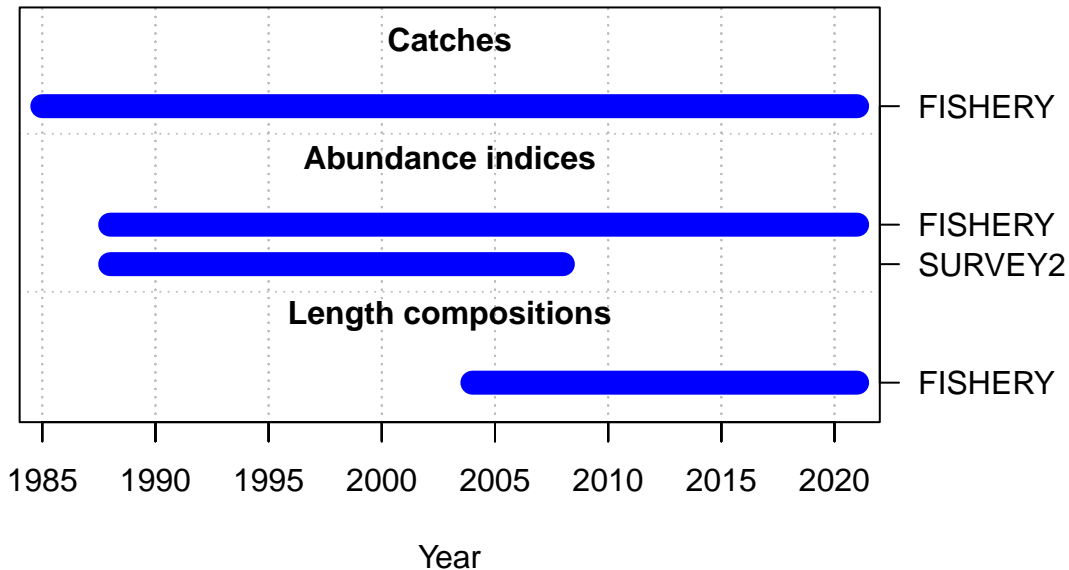


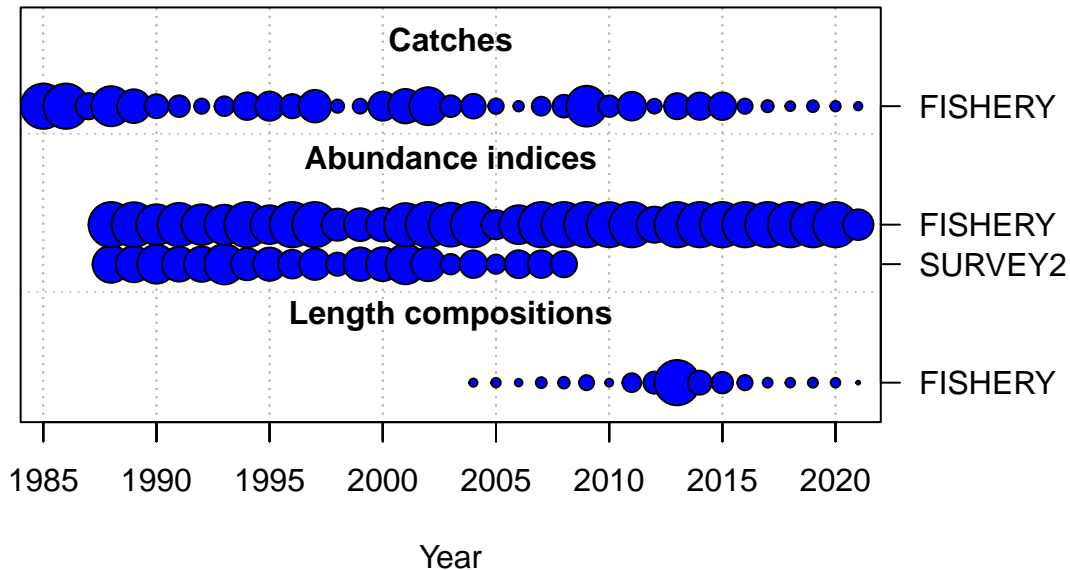






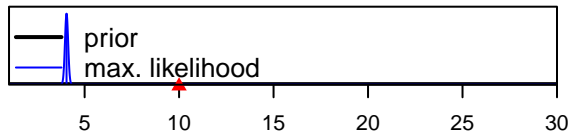




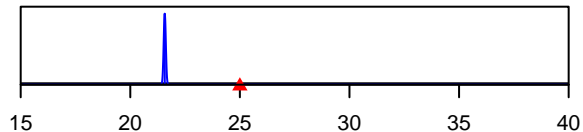


Density

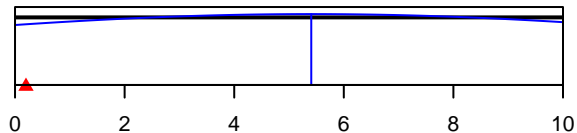
SR_LN(R0)



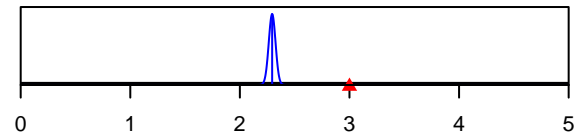
Size_inflection_FISHERY(1)



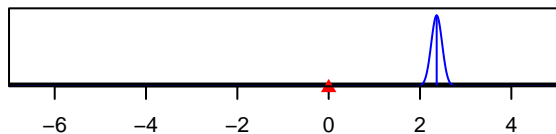
InitF_seas_1flt_1FISHERY



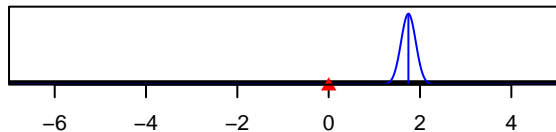
Size_95%width_FISHERY(1)



LnQ_base_FISHERY(1)



LnQ_base_SURVEY2(2)



Parameter value