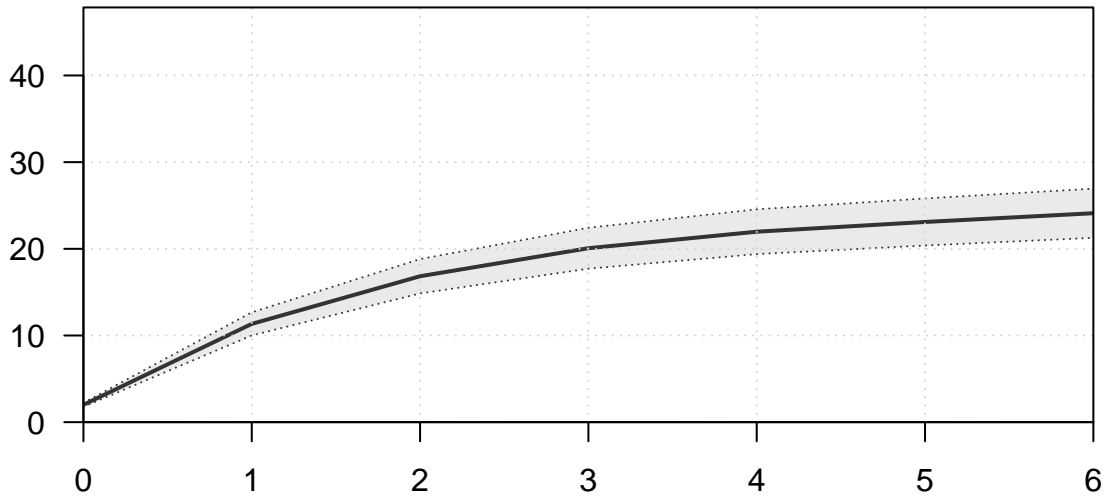
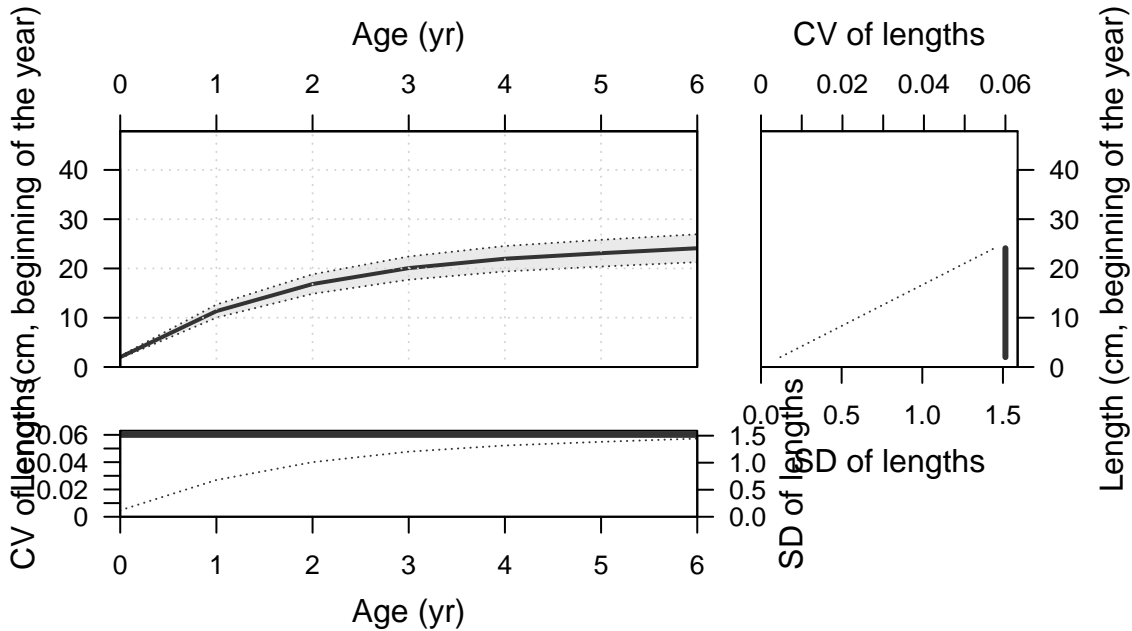


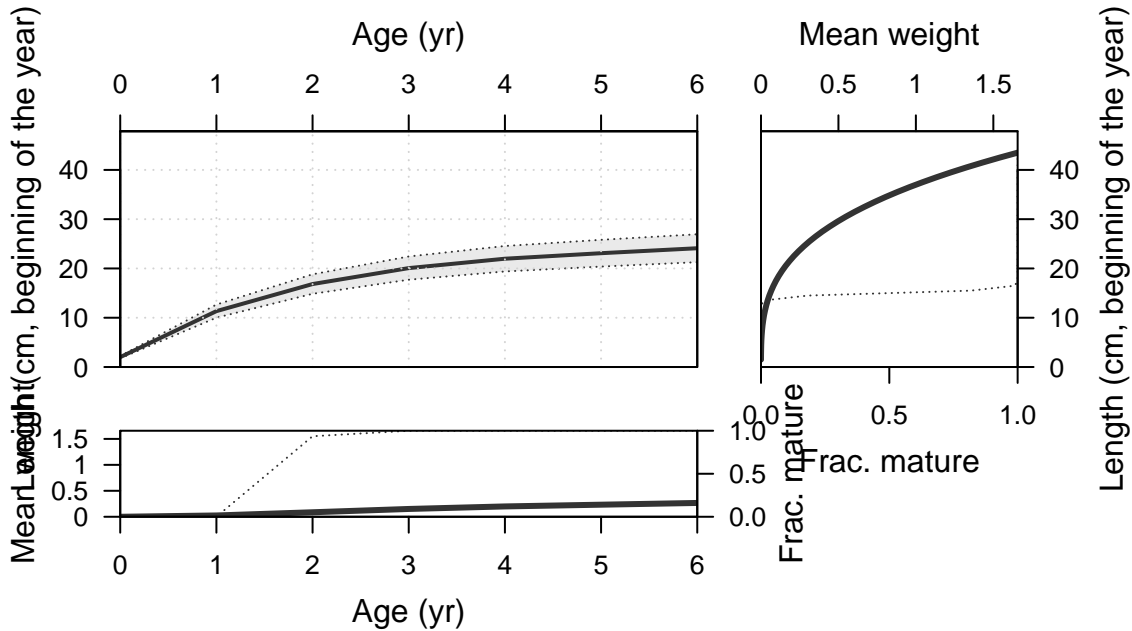
Plots created using the 'r4ss' package in R
Stock Synthesis version: 3.30.19.0
StartTime: Fri Jul 22 08:34:33 2022
Data_File: data.ss
Control_File: control.ss

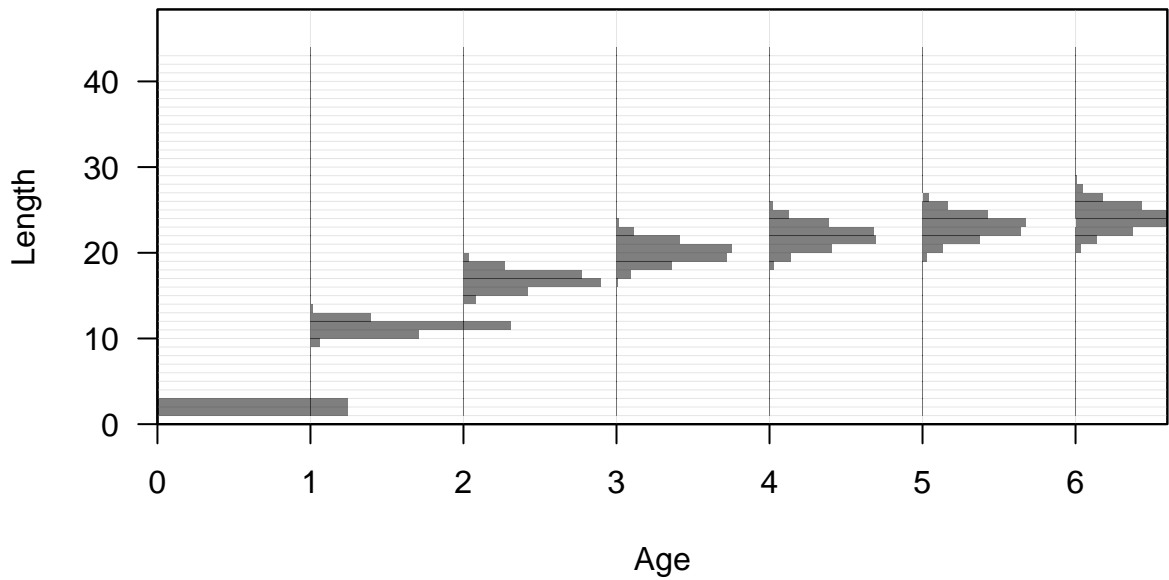
Length (cm, beginning of the year)

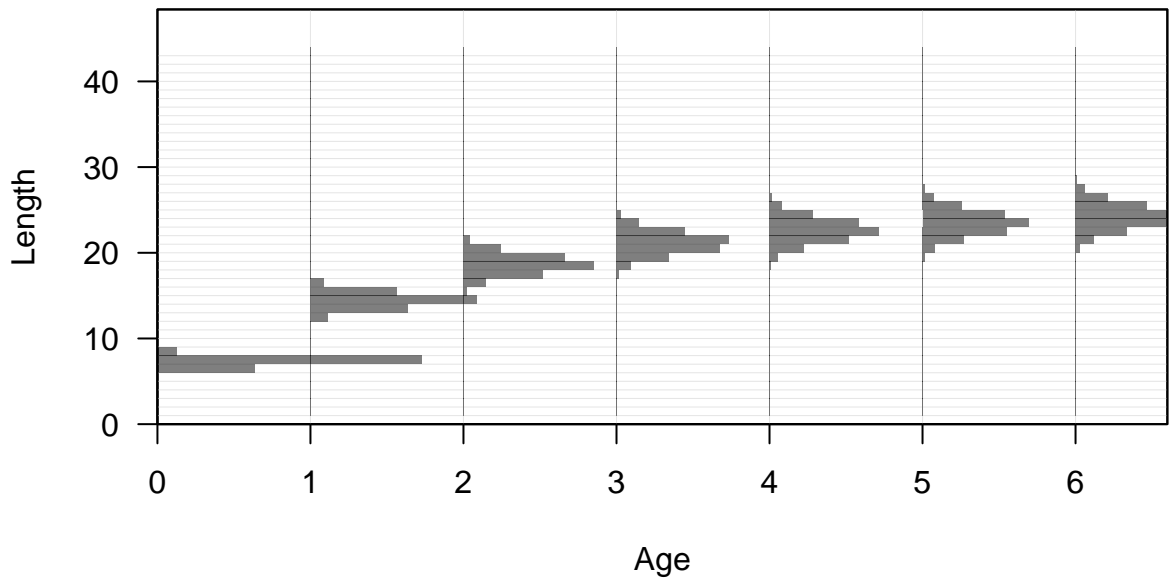


Age (yr)









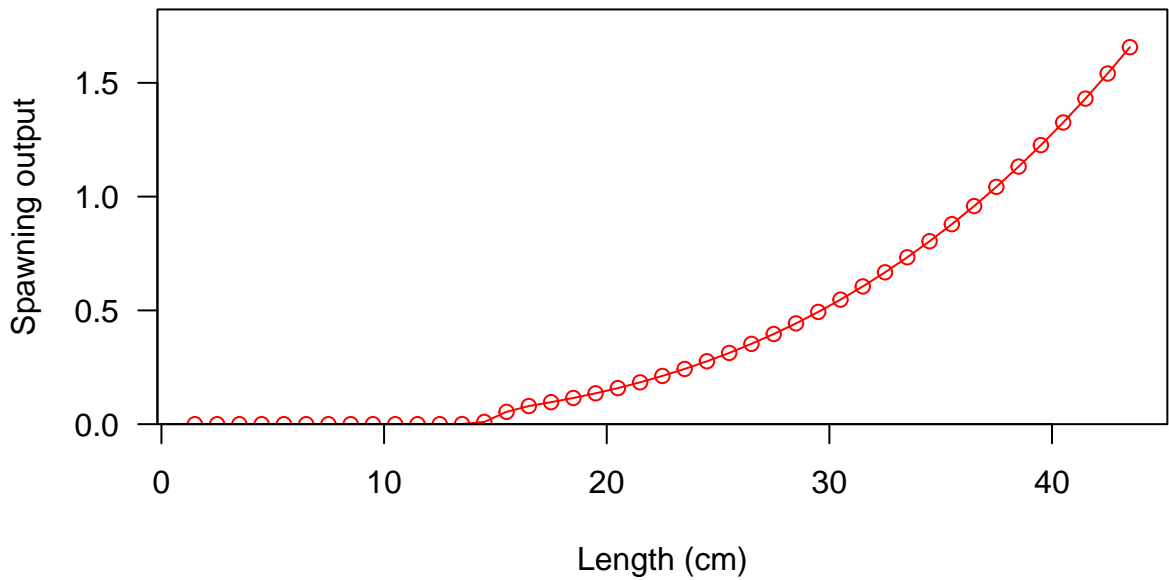


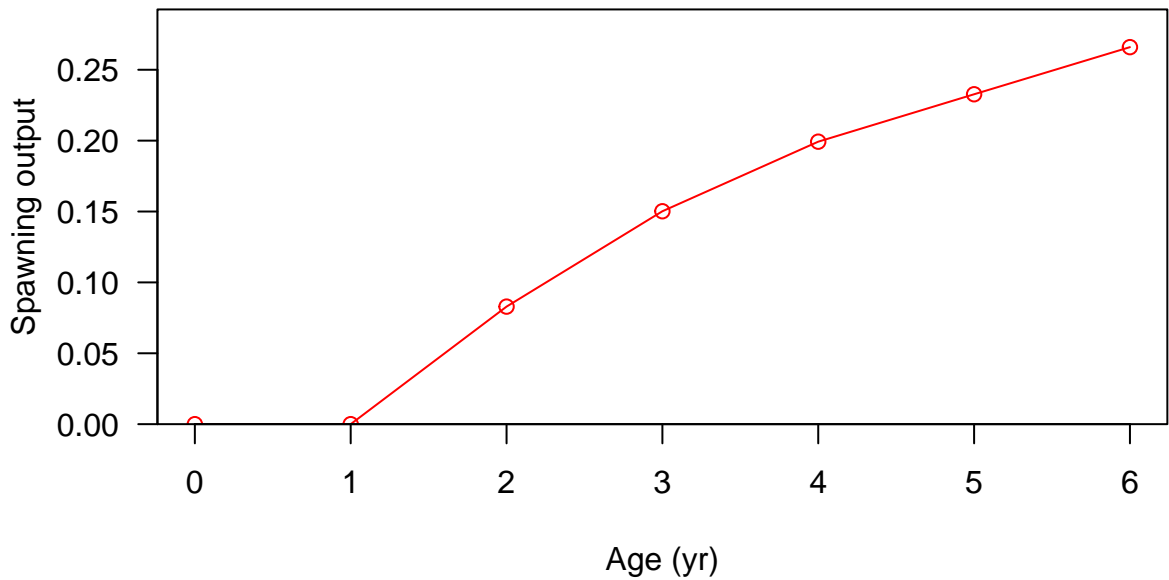




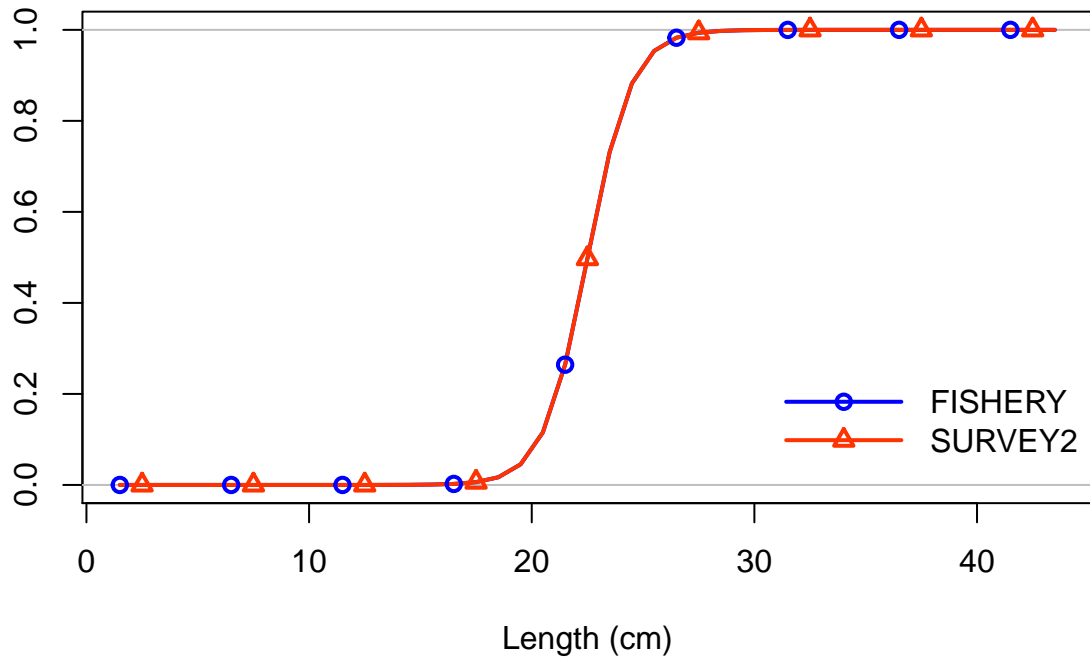




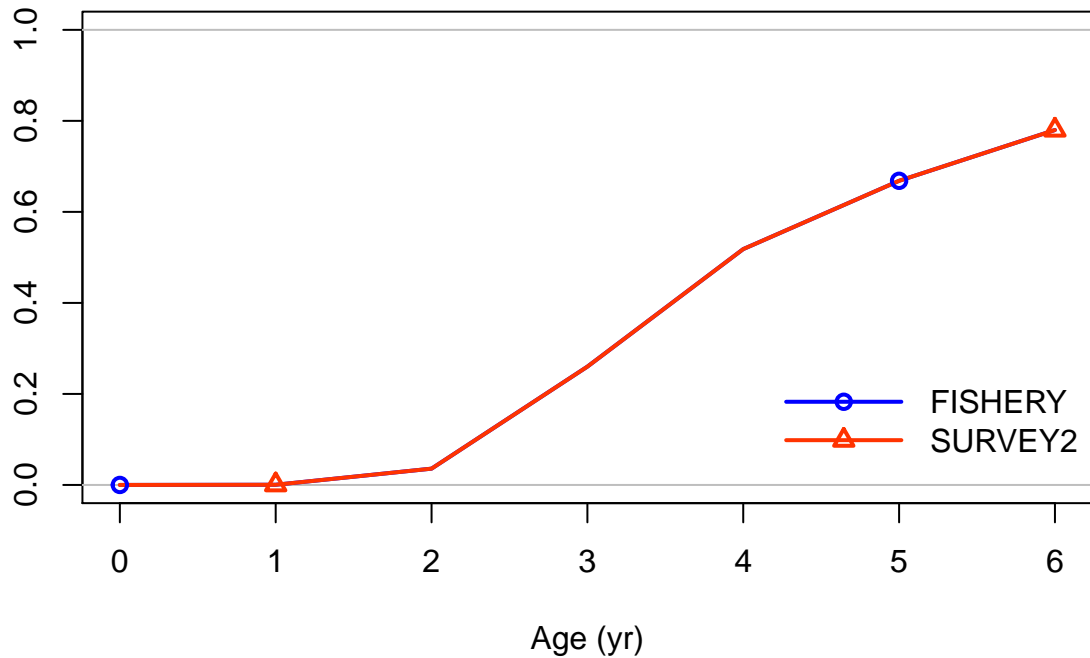




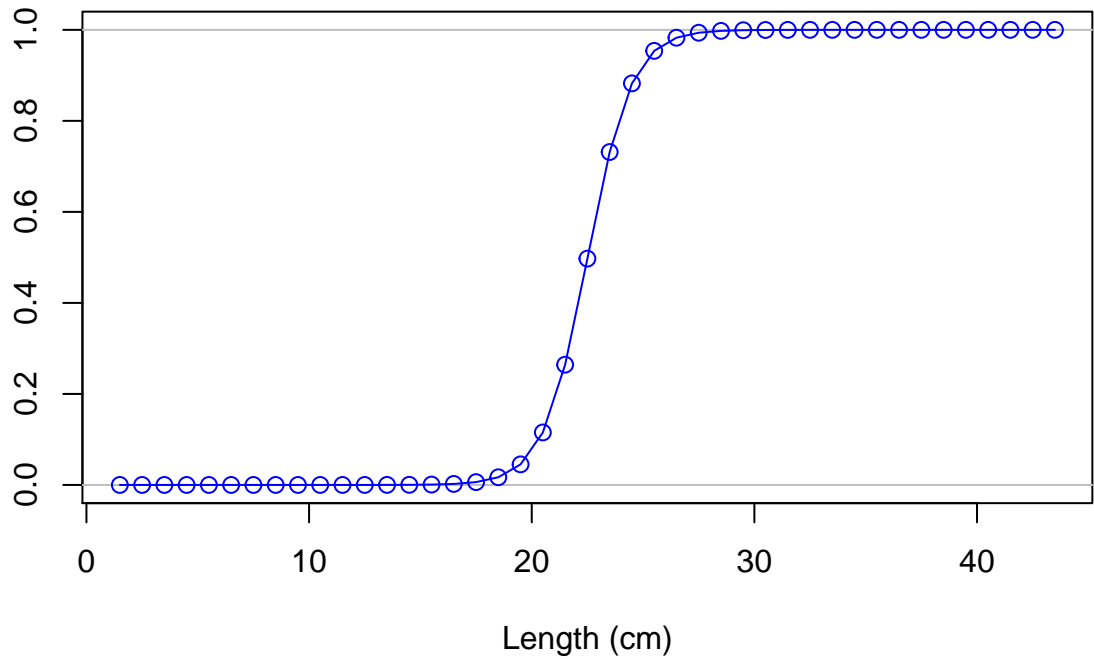
Selectivity



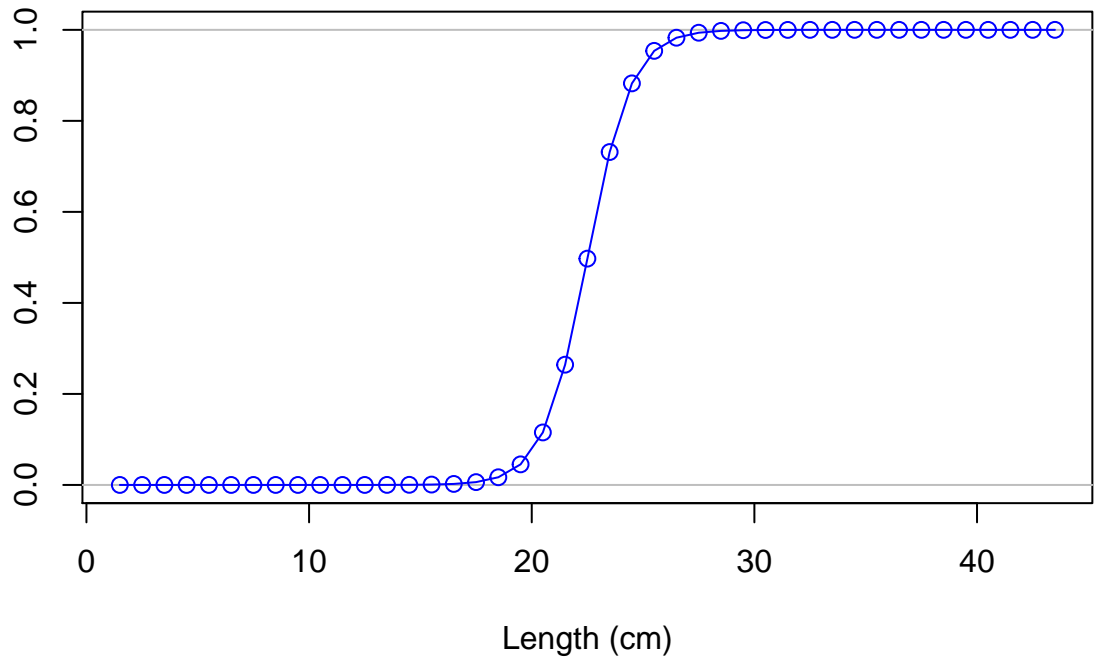
Selectivity

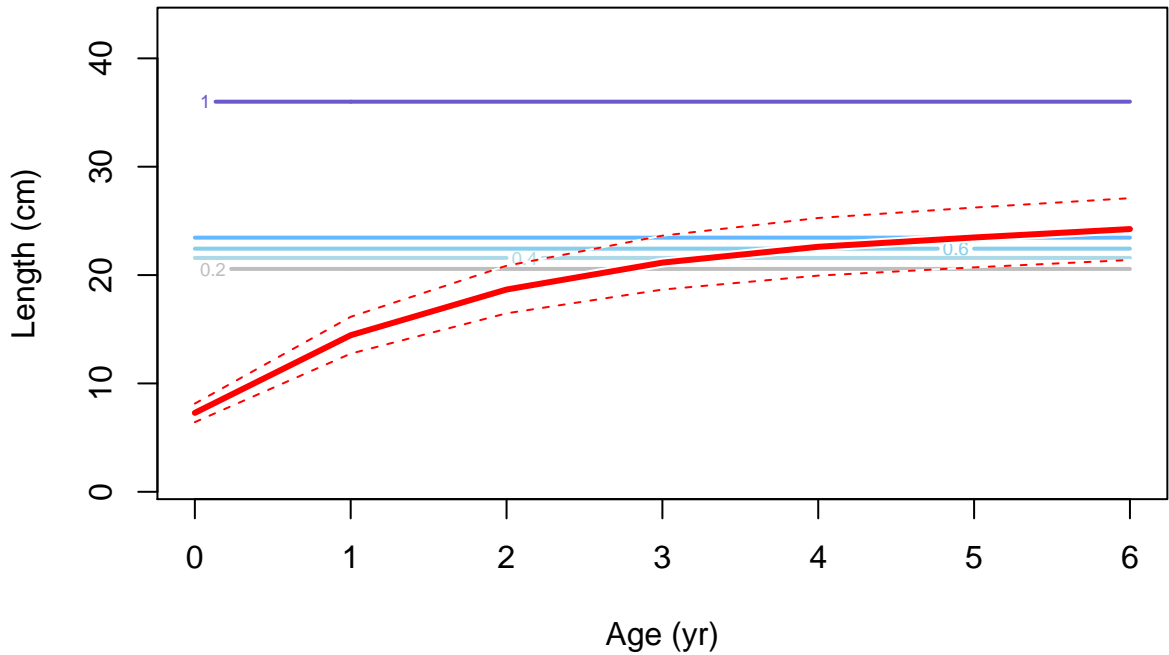


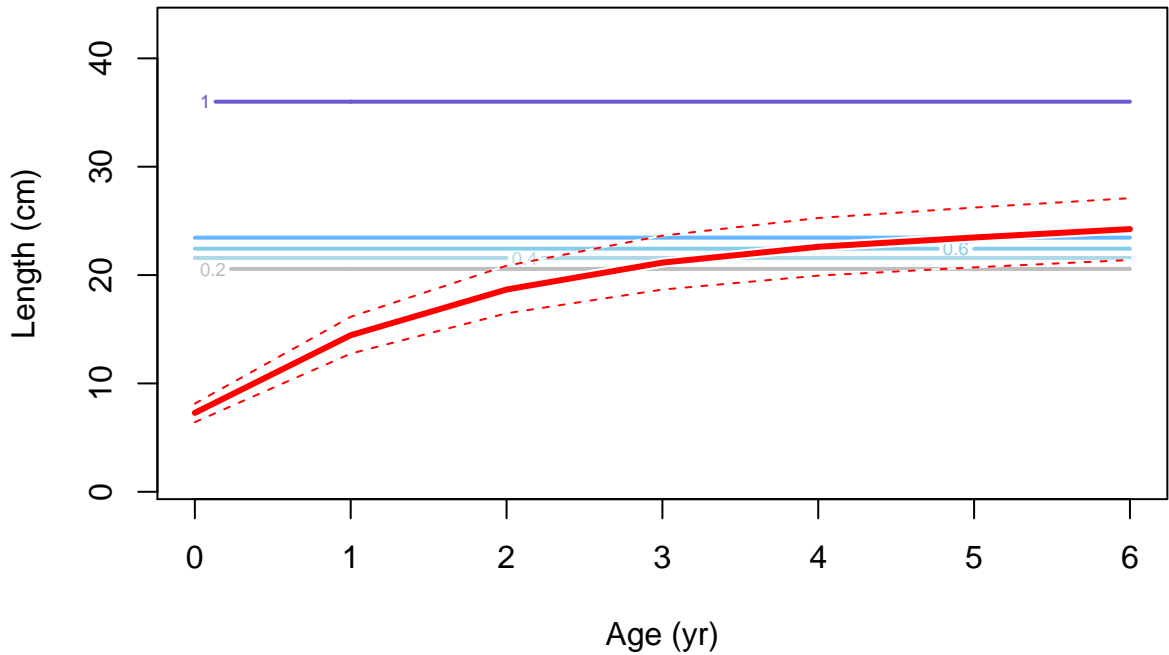
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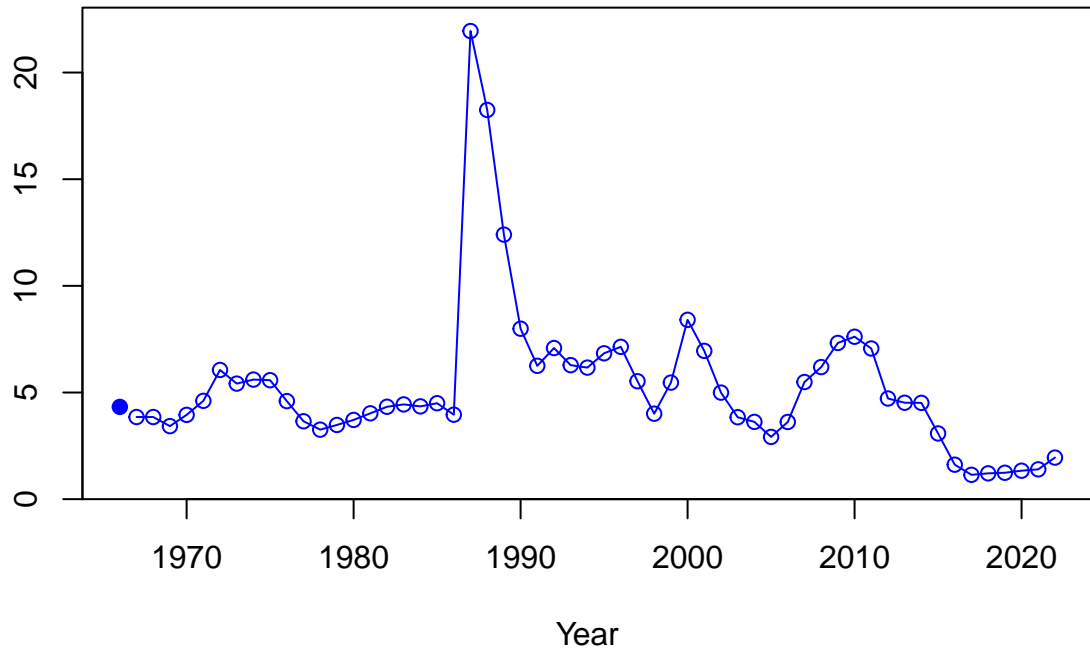
Selectivity



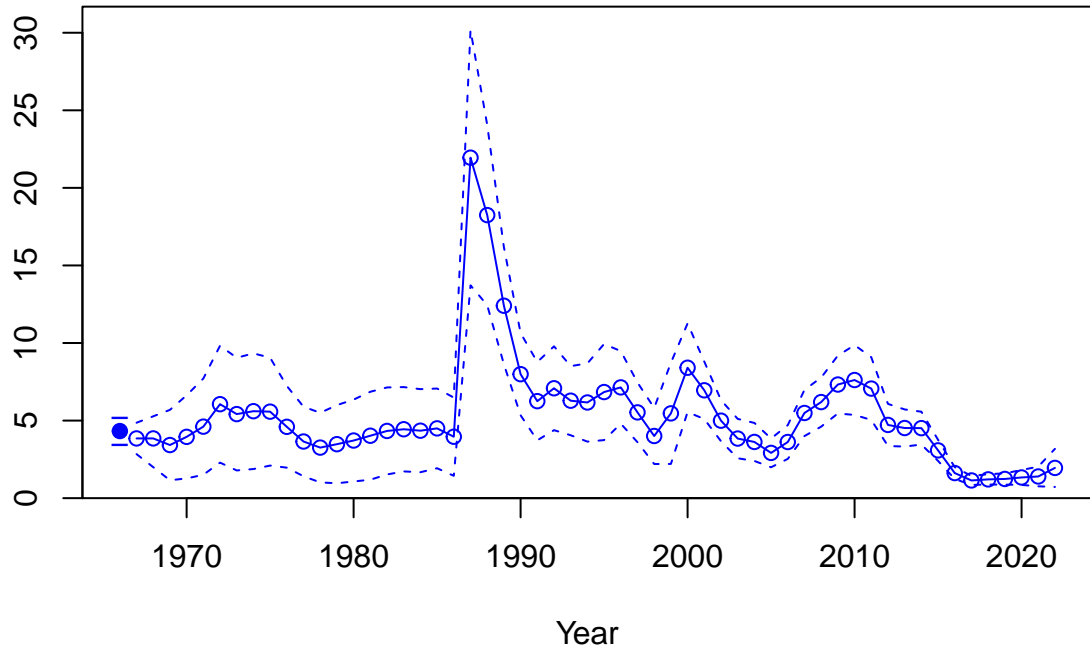




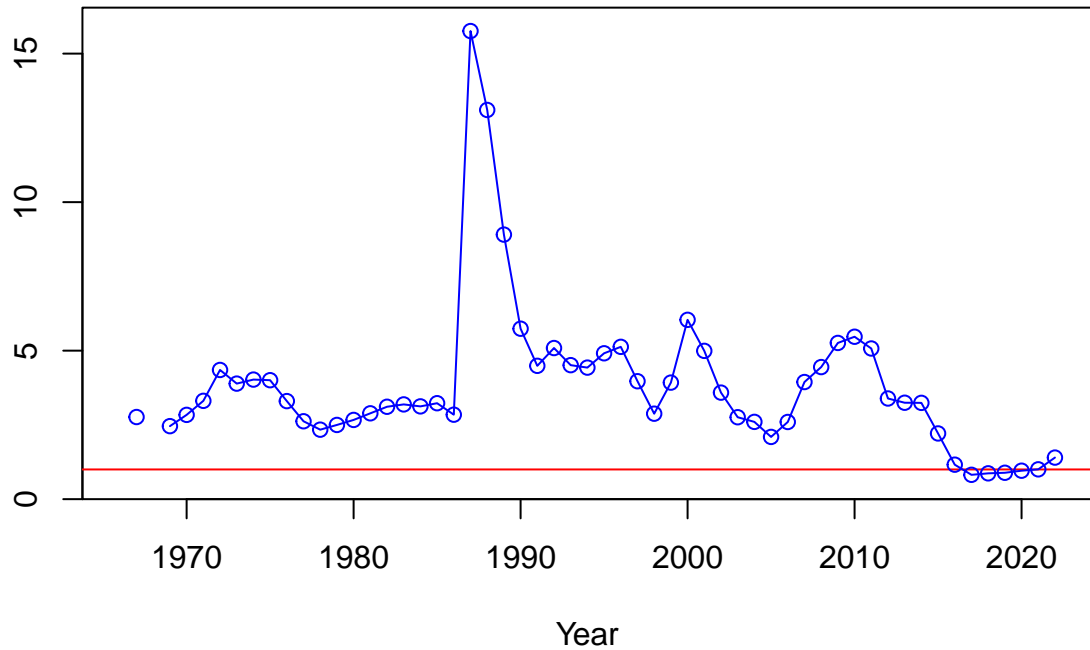
Spawning biomass (mt)



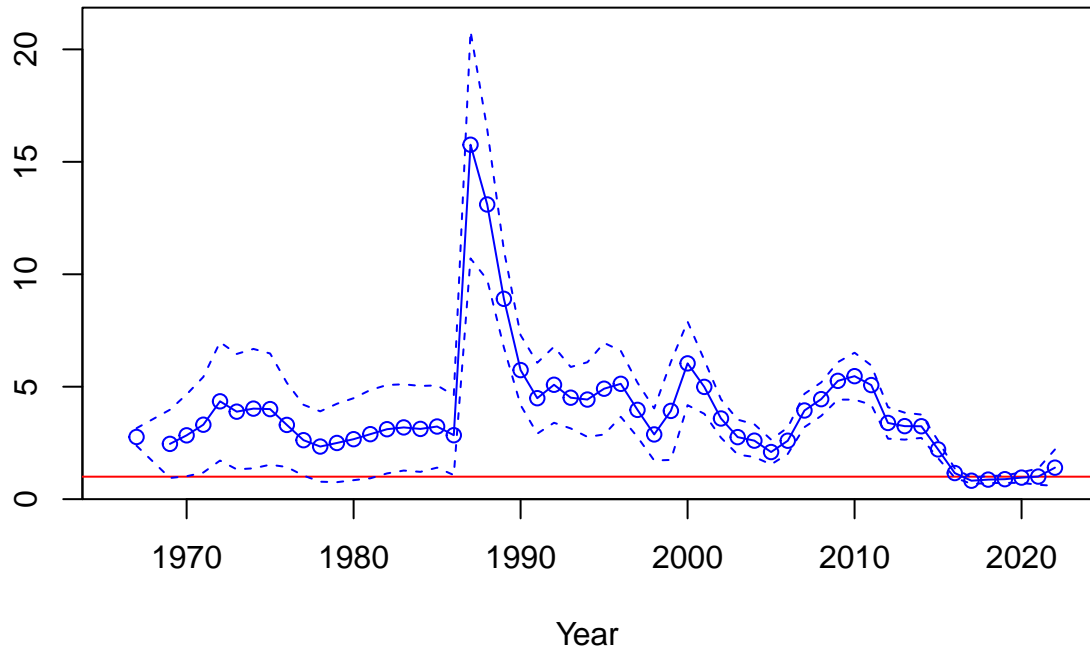
Spawning biomass (mt)

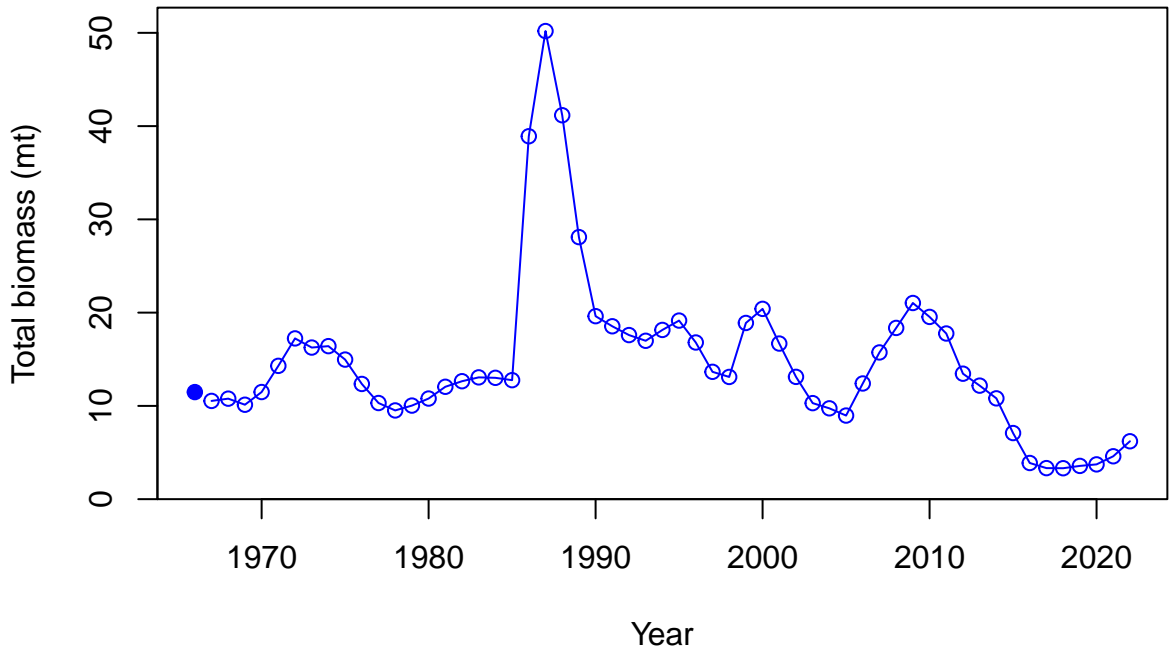


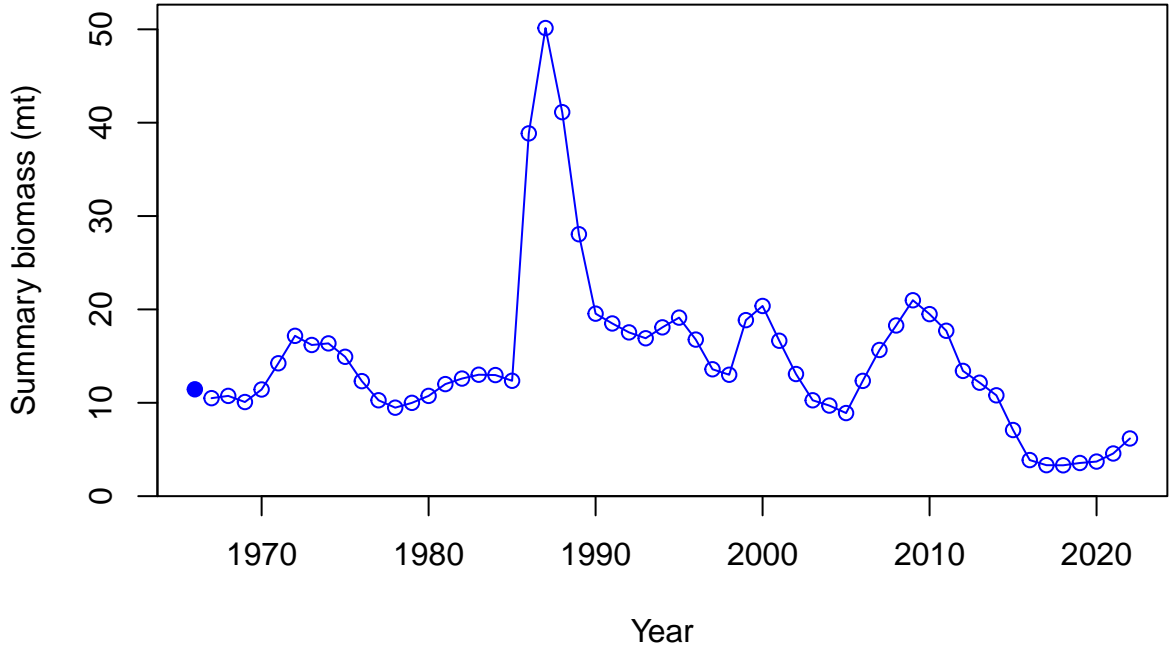
Relative spawning biomass: B/B_{MSY}



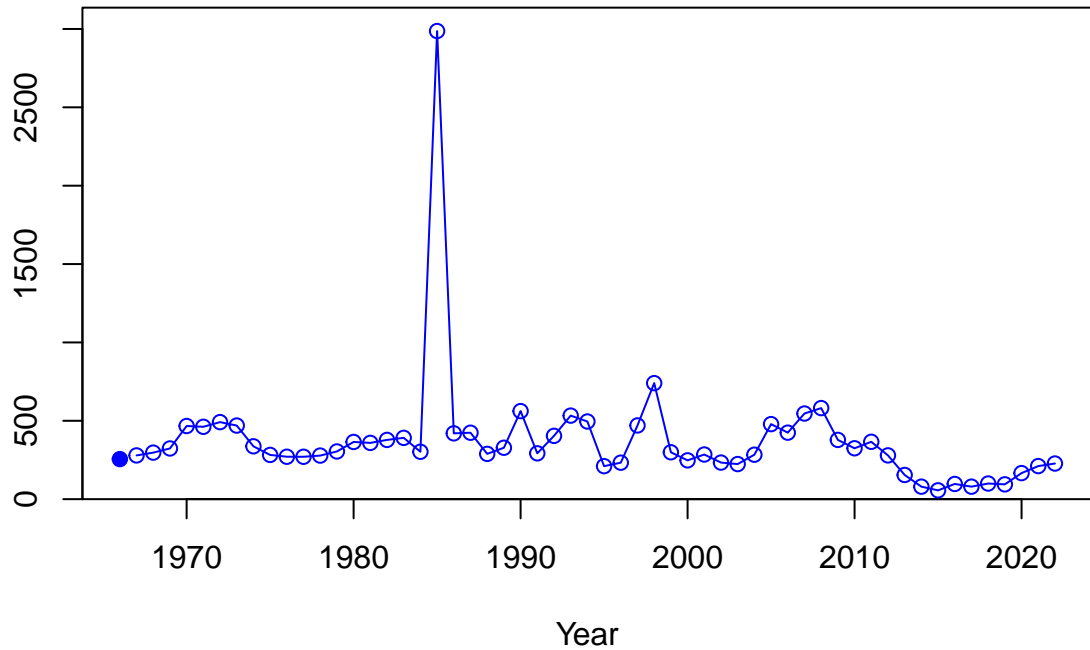
Relative spawning biomass: B/B_{MSY}



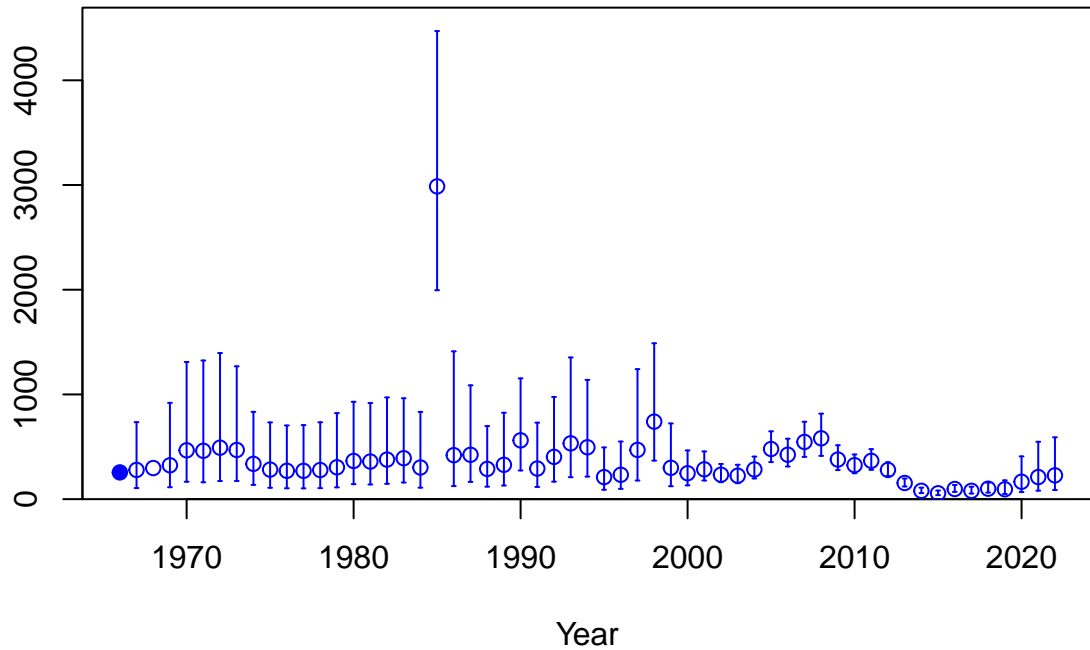




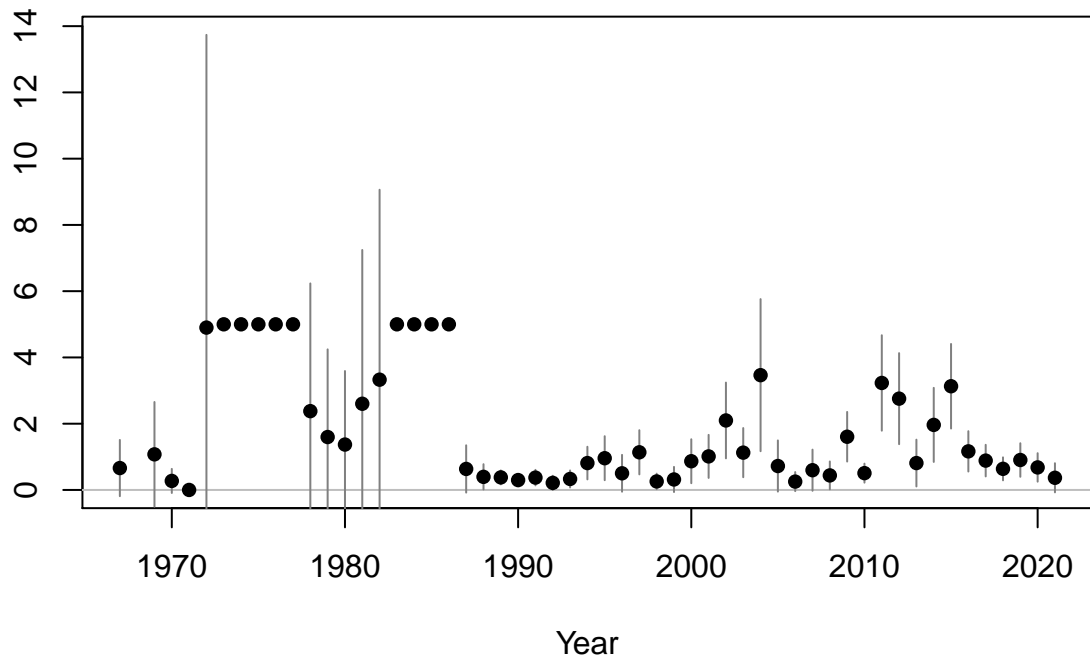
Age-0 recruits (1,000s)

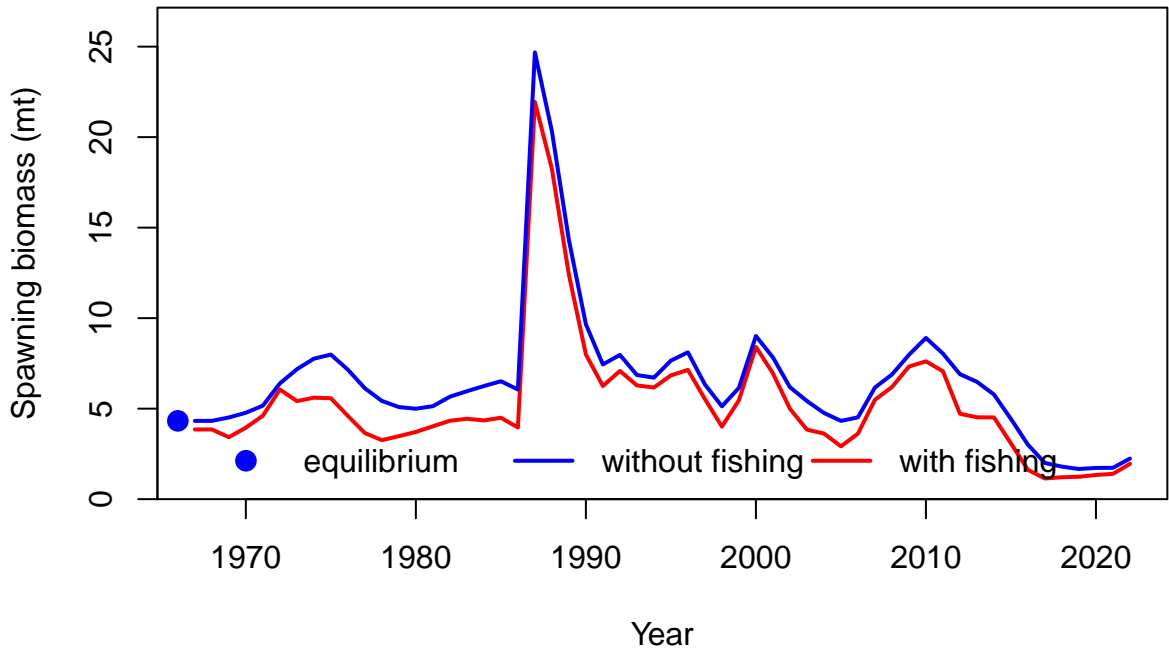


Age-0 recruits (1,000s)



Summary Fishing Mortality





Log recruitment deviation

2
1
0
-1

1970

1980

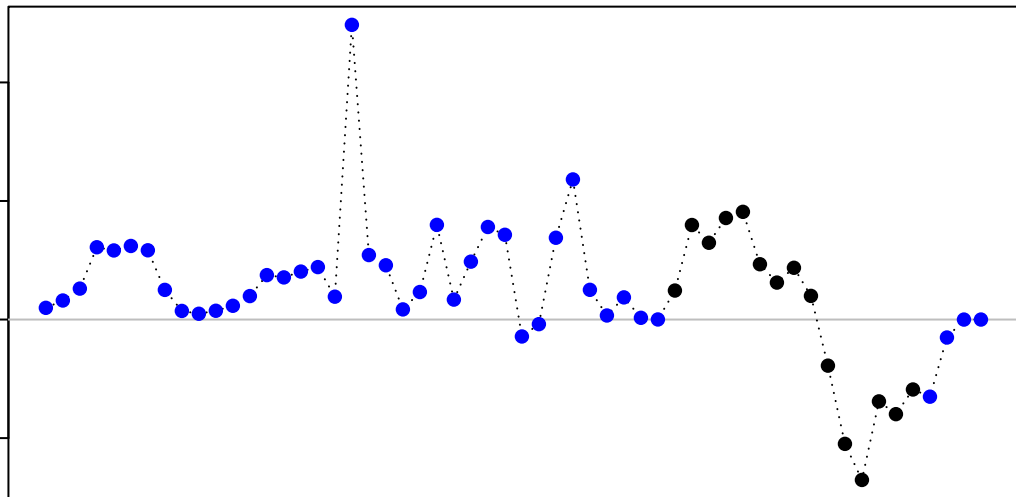
1990

2000

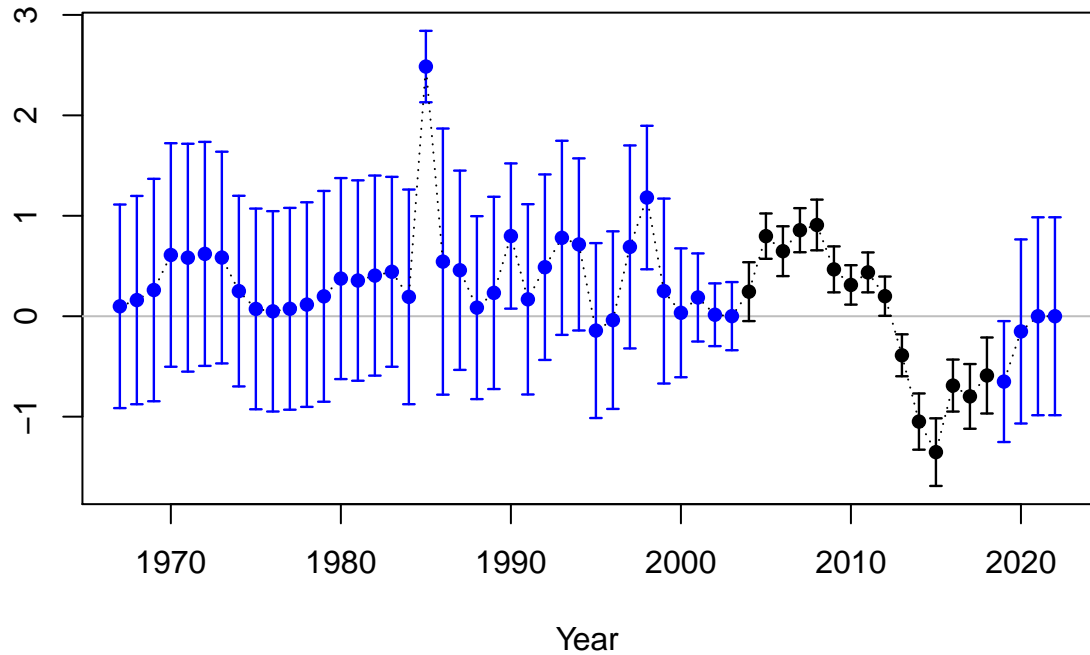
2010

2020

Year

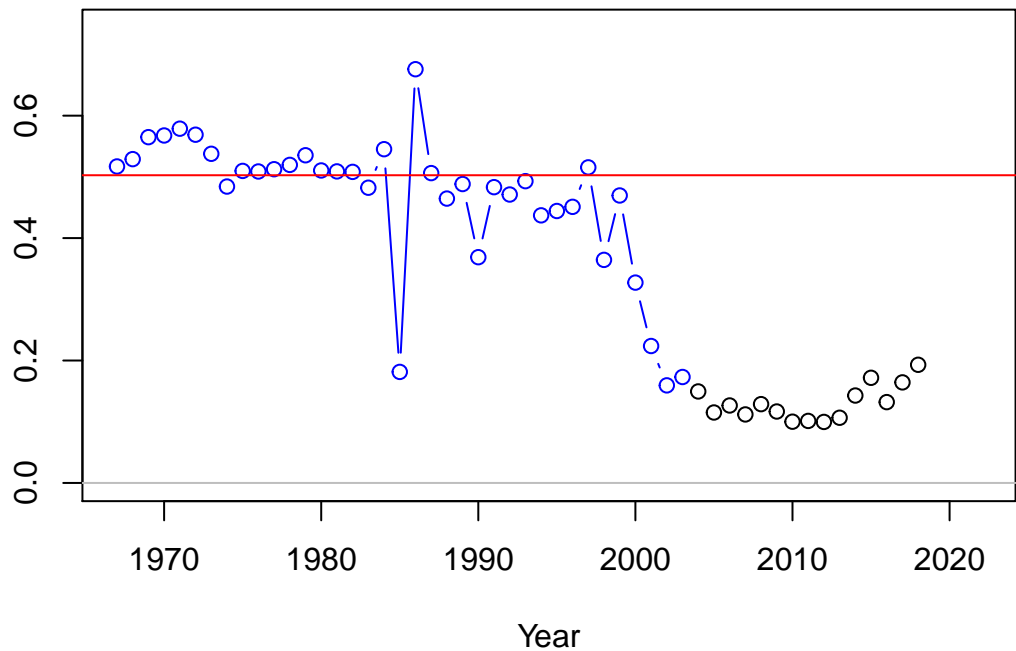


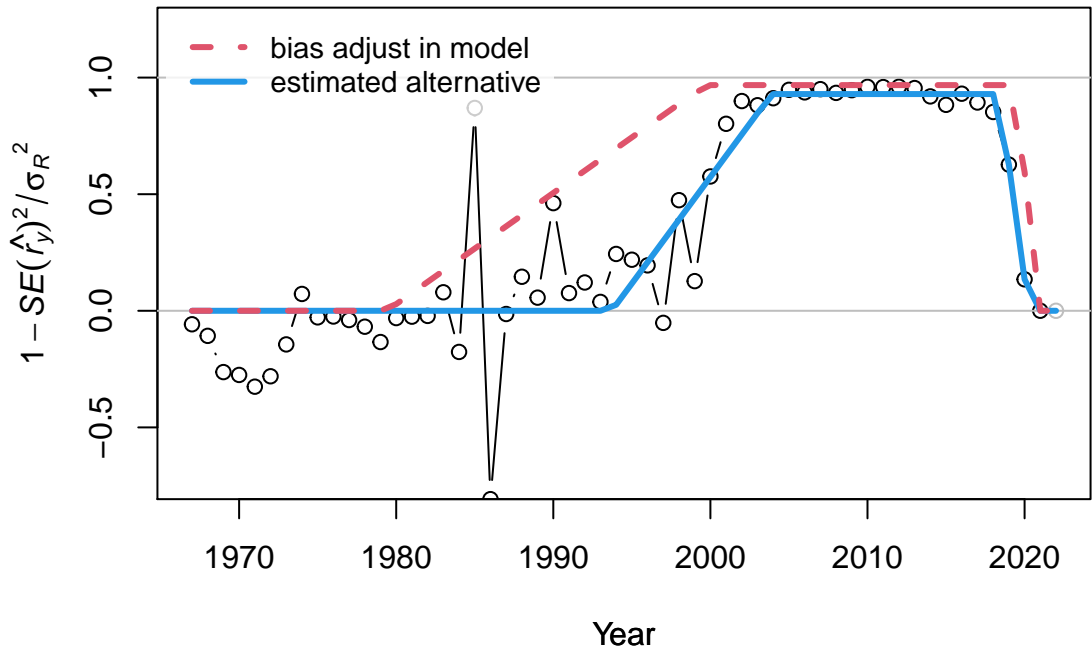
Log recruitment deviation

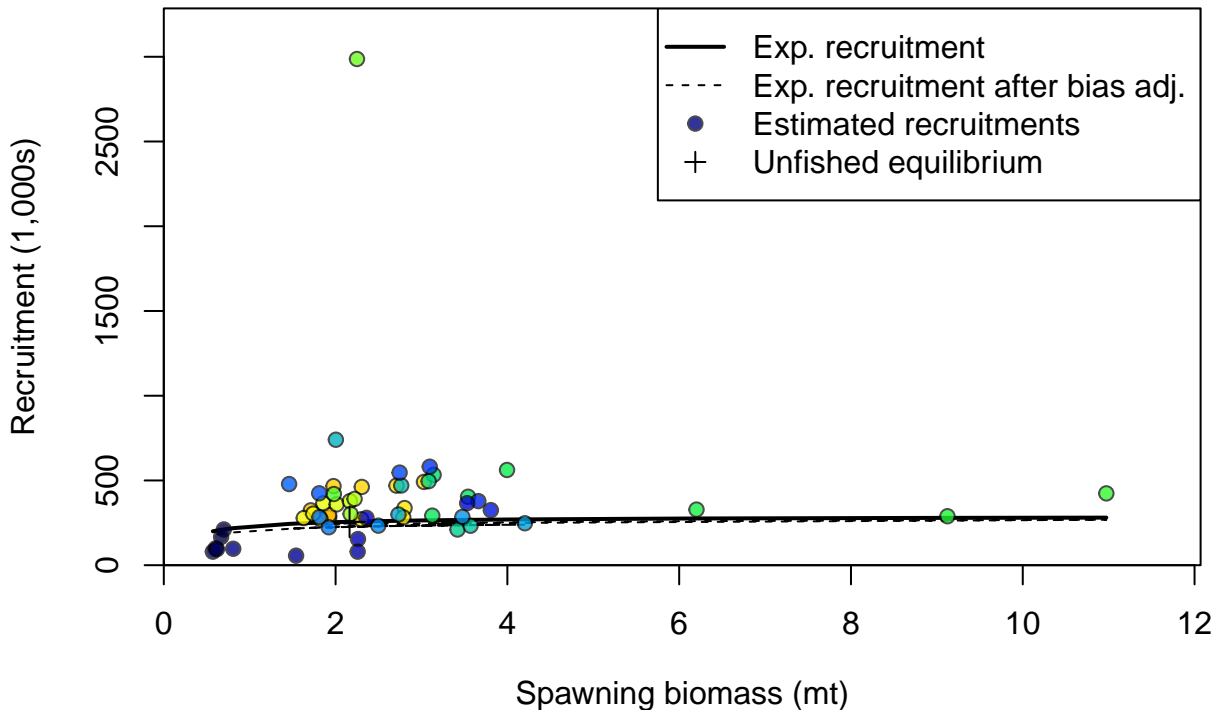


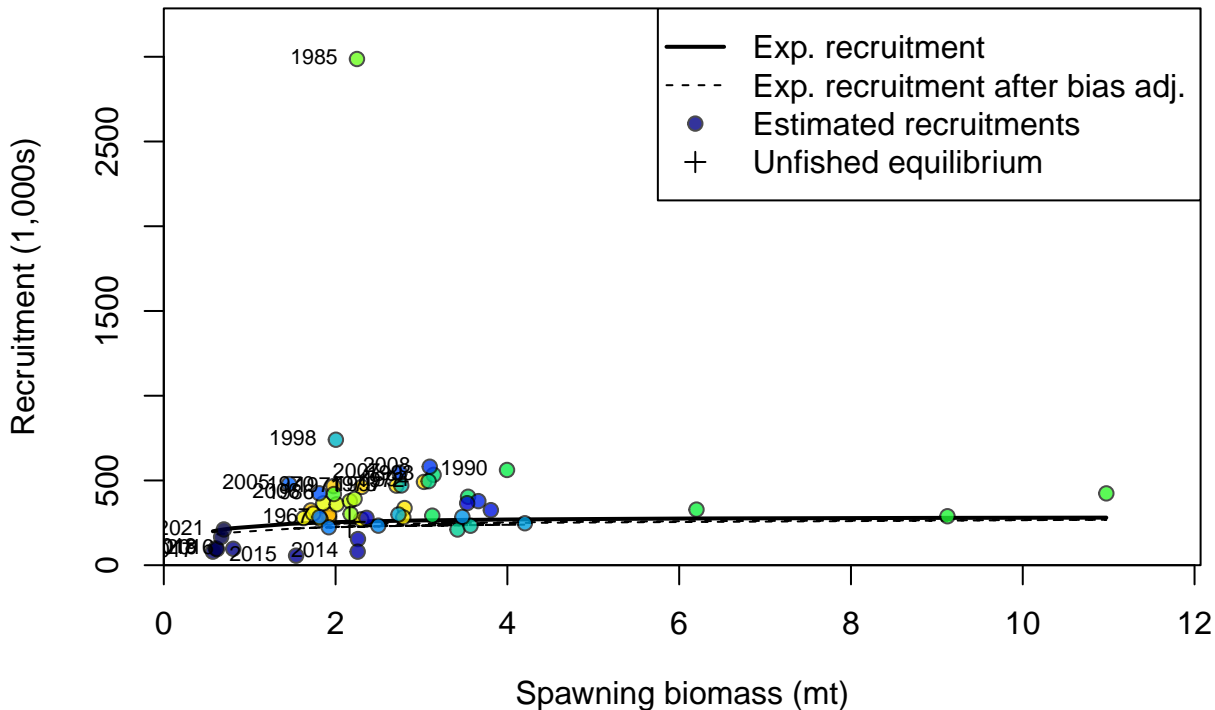
Recruitment deviation variance

Asymptotic standard error estimate

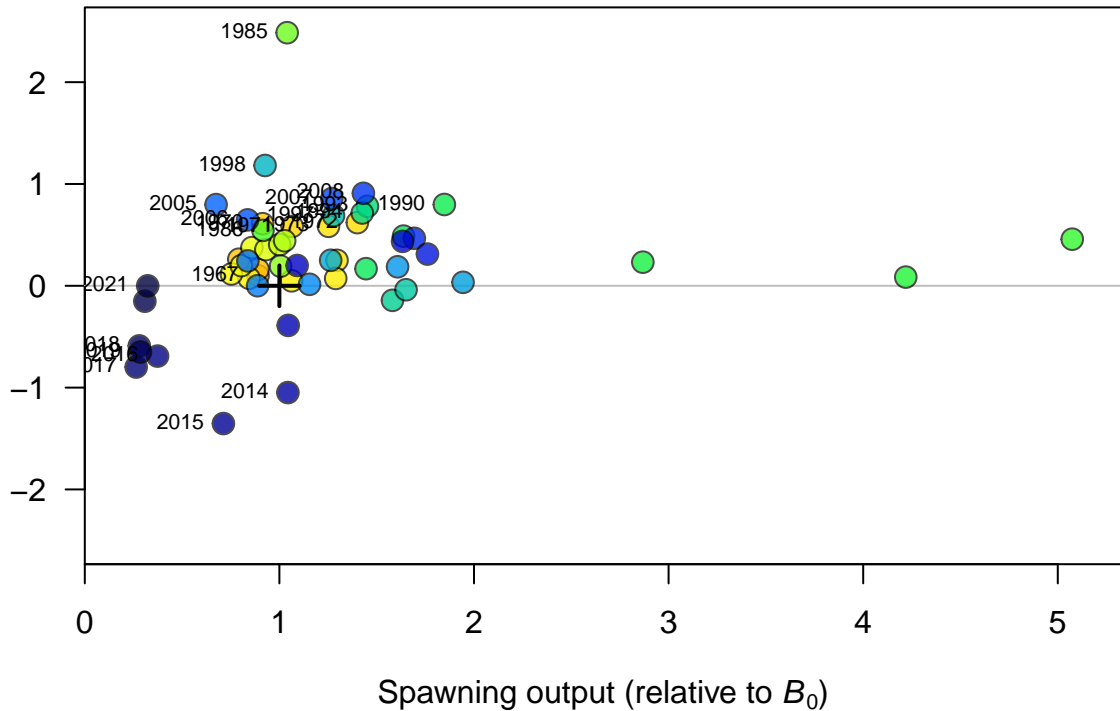


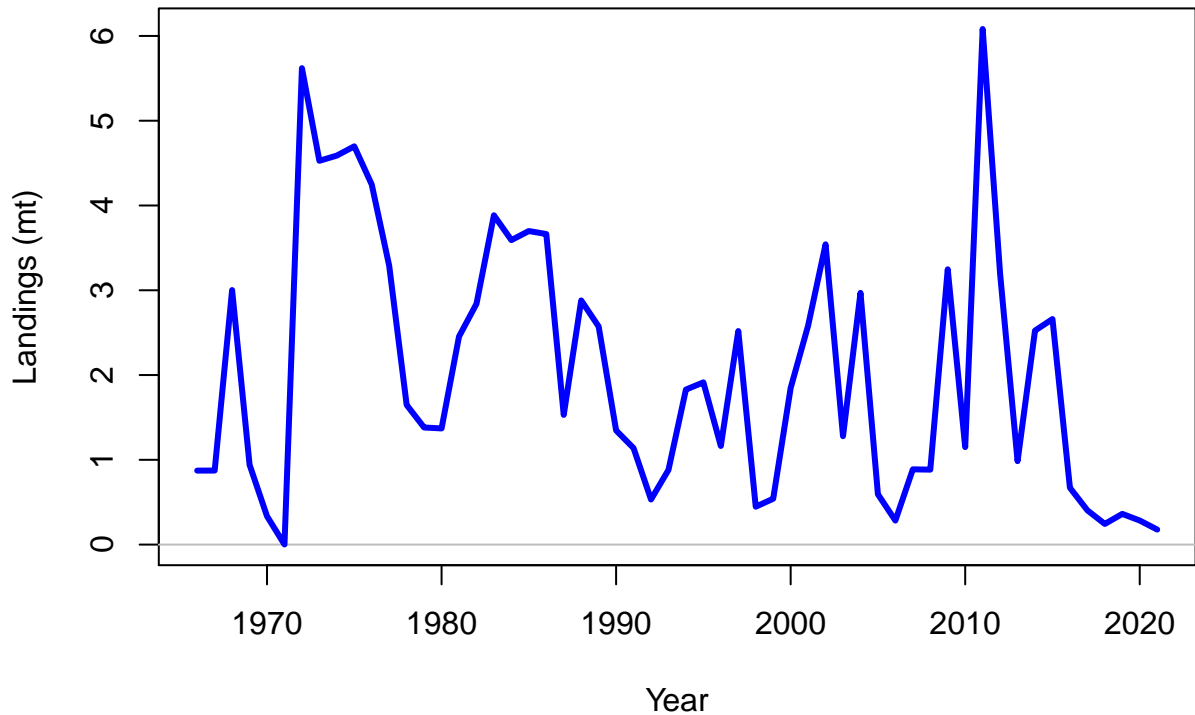


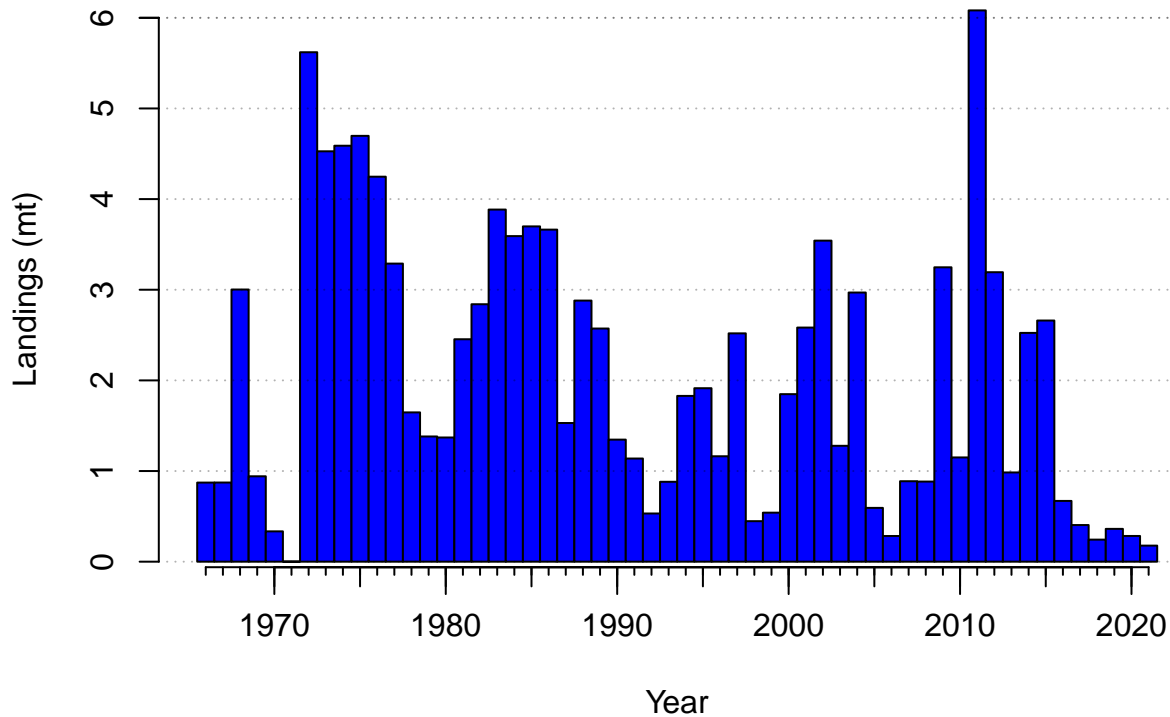




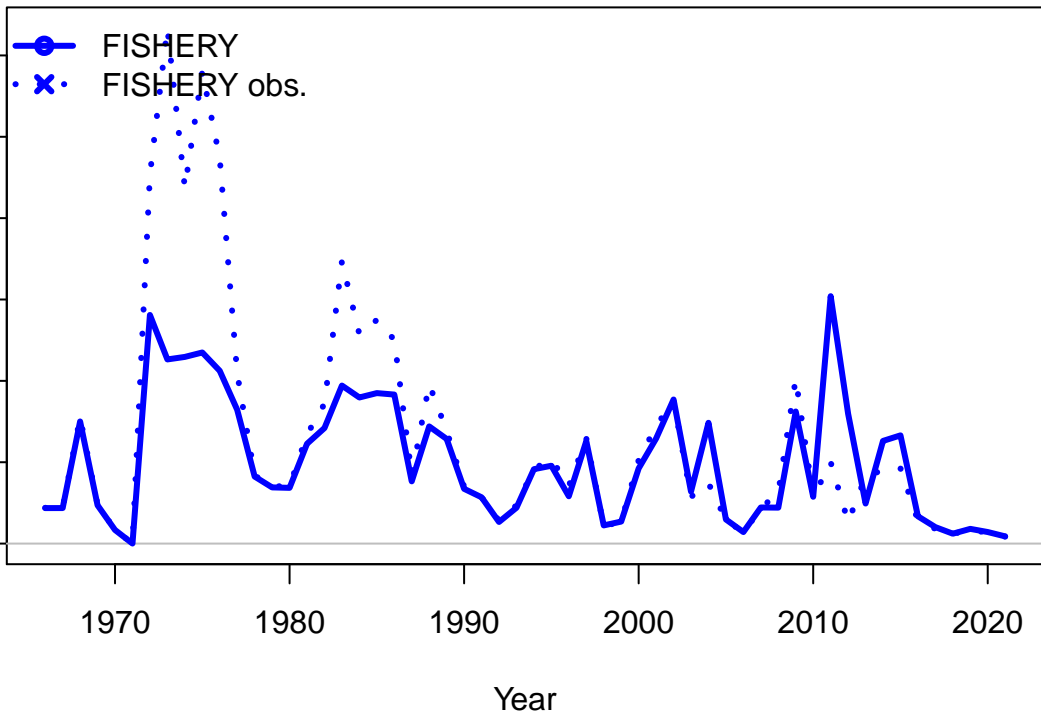
Log recruitment deviation

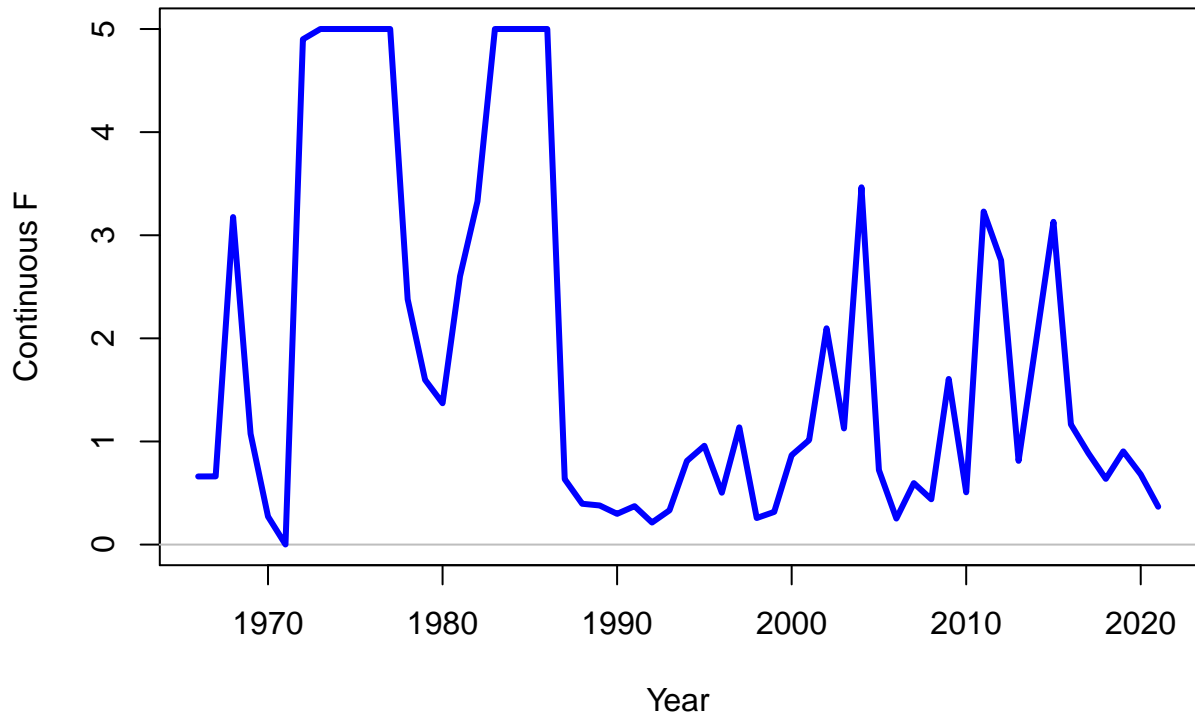




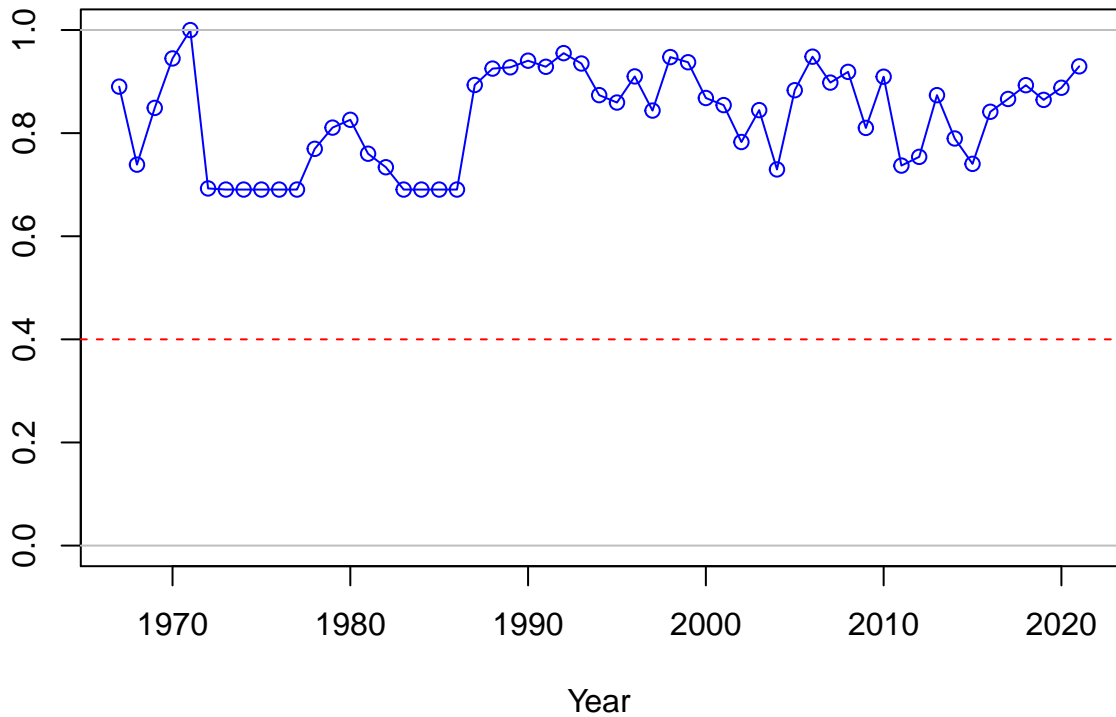


Observed and expected Landings (mt)

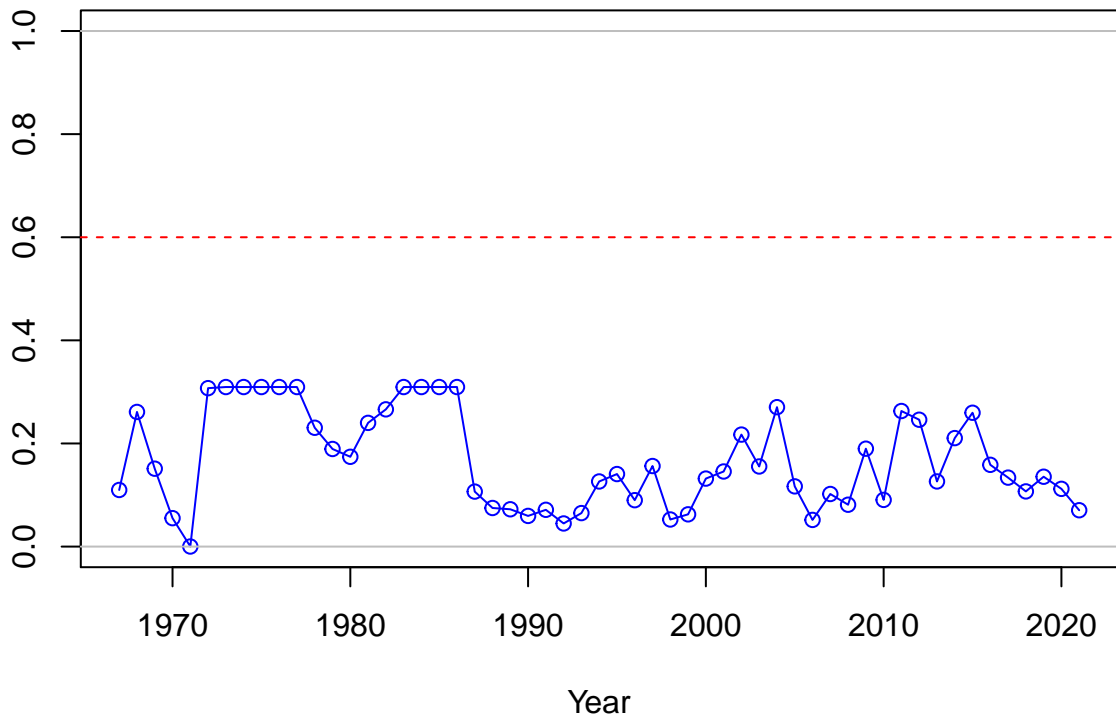




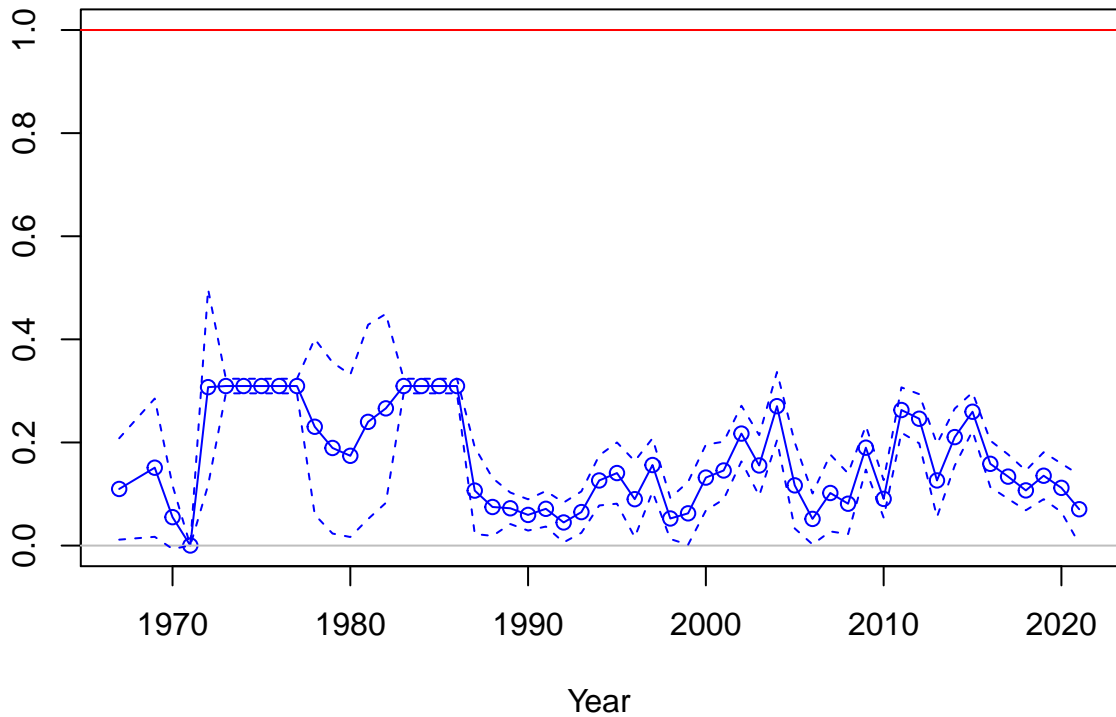
SPR



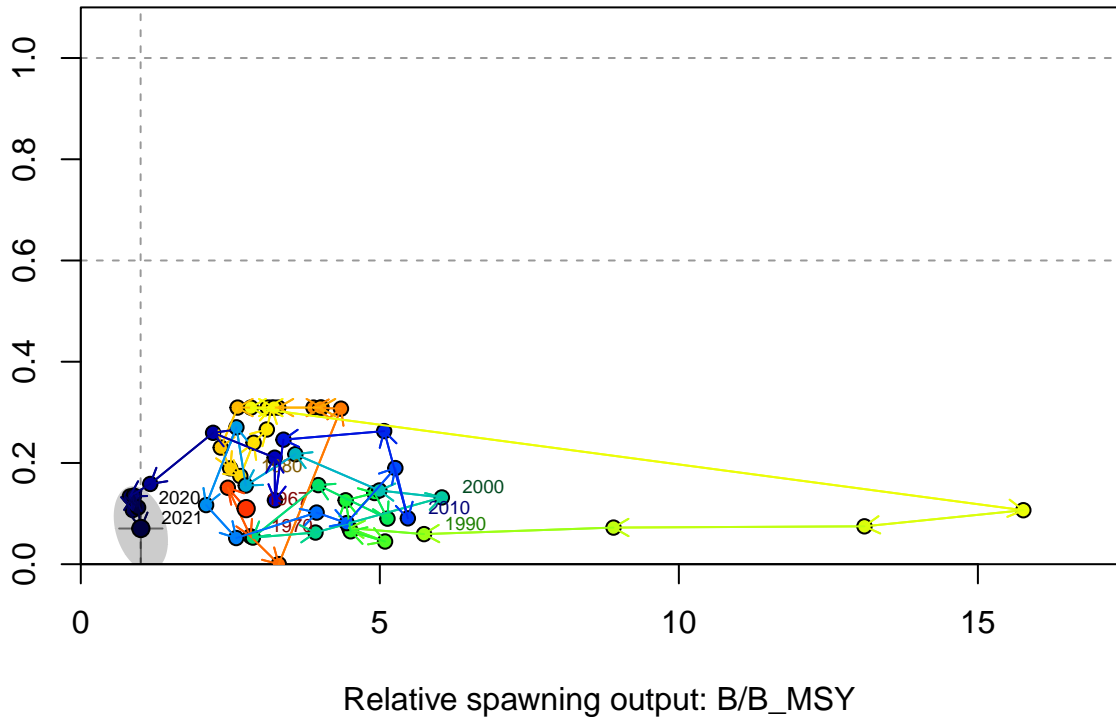
1-SPR



Fishing intensity: 1-SPR



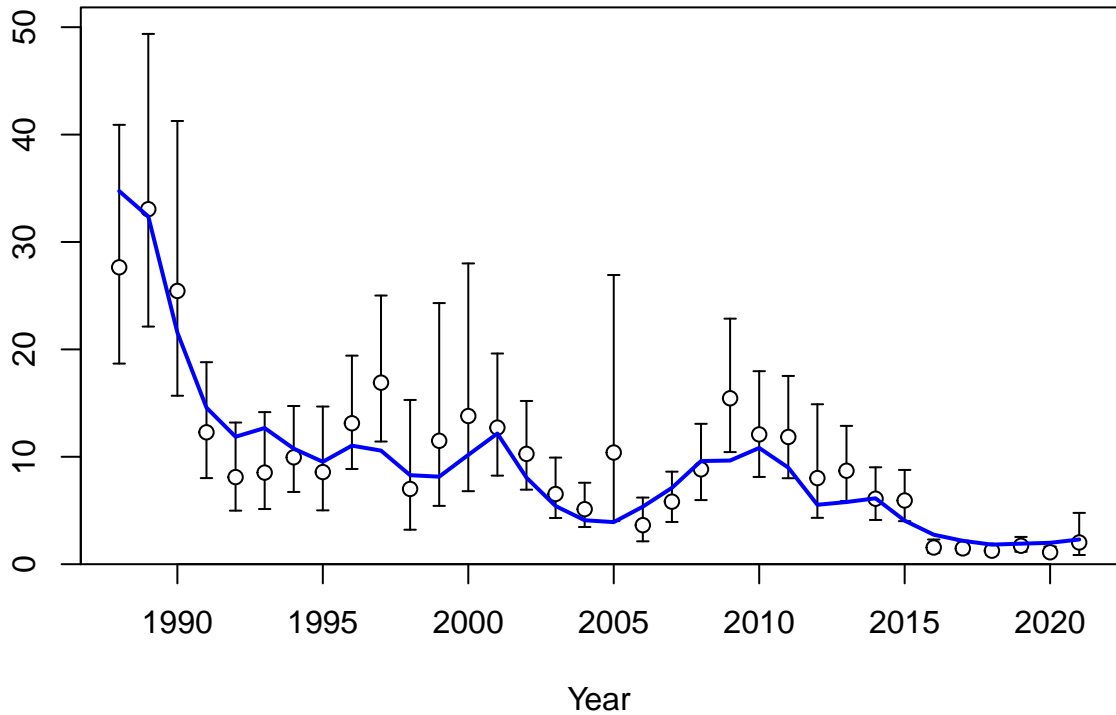
Fishing intensity: 1-SPR



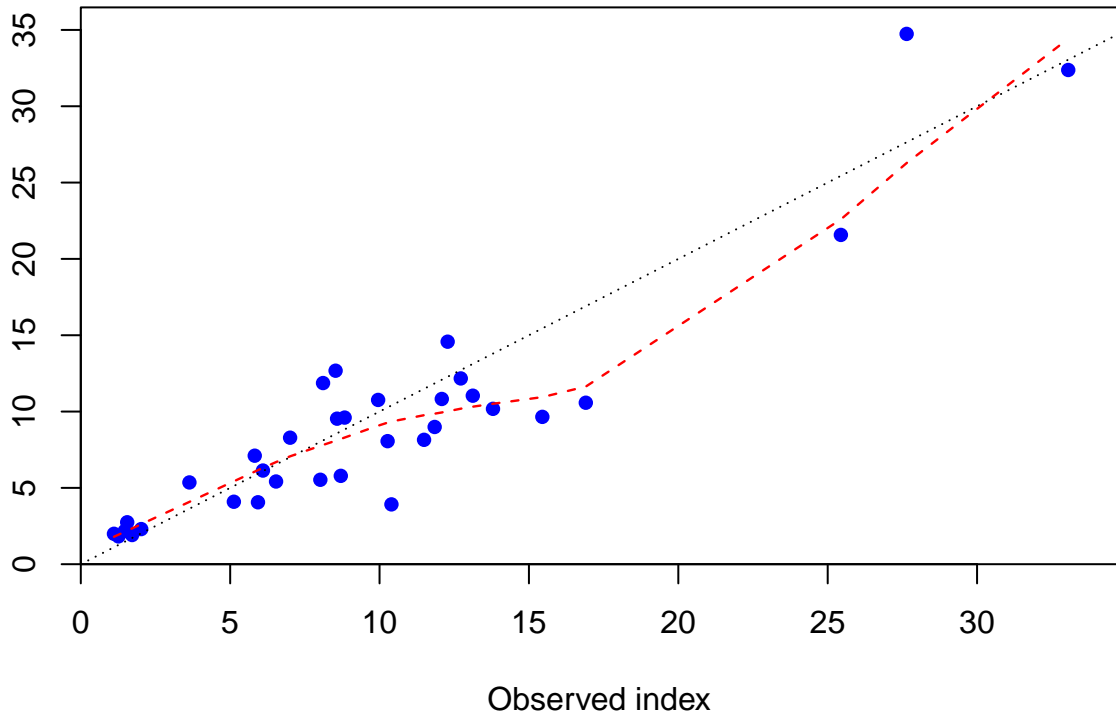
Index



Index



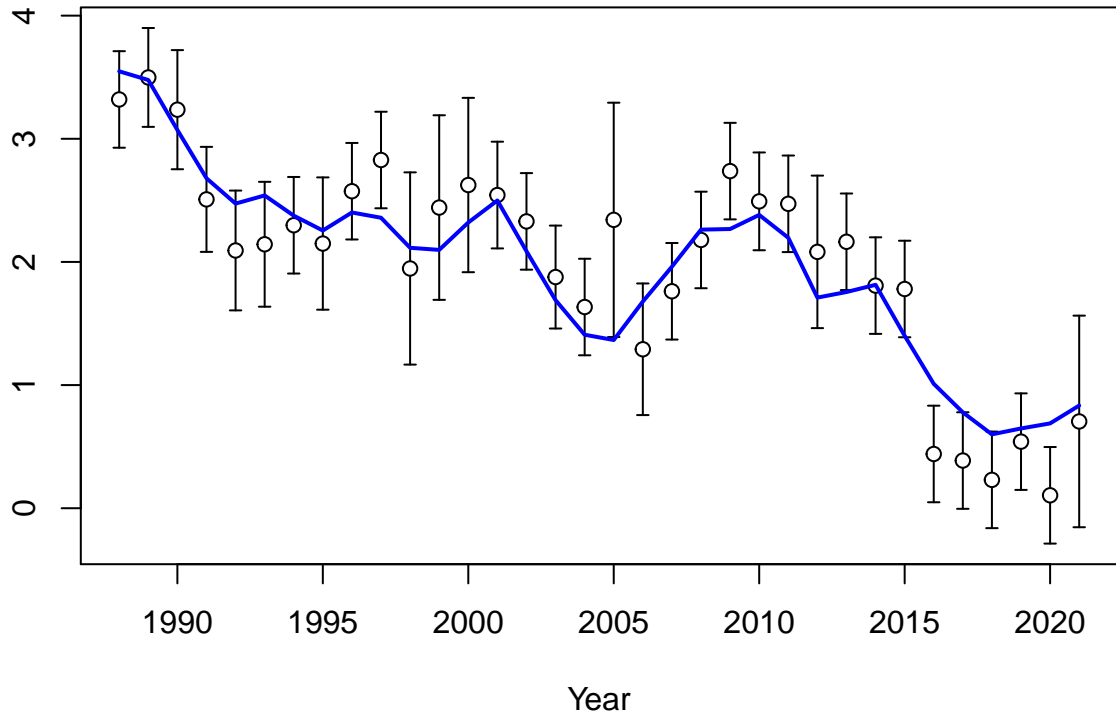
Expected index

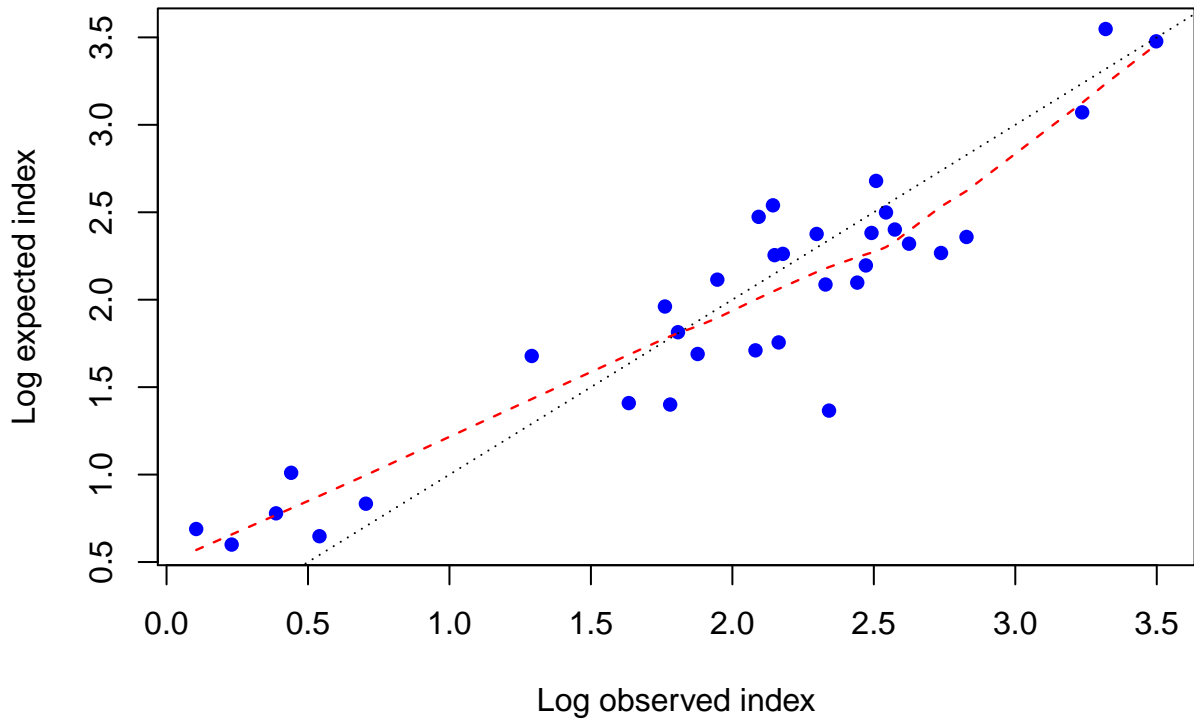


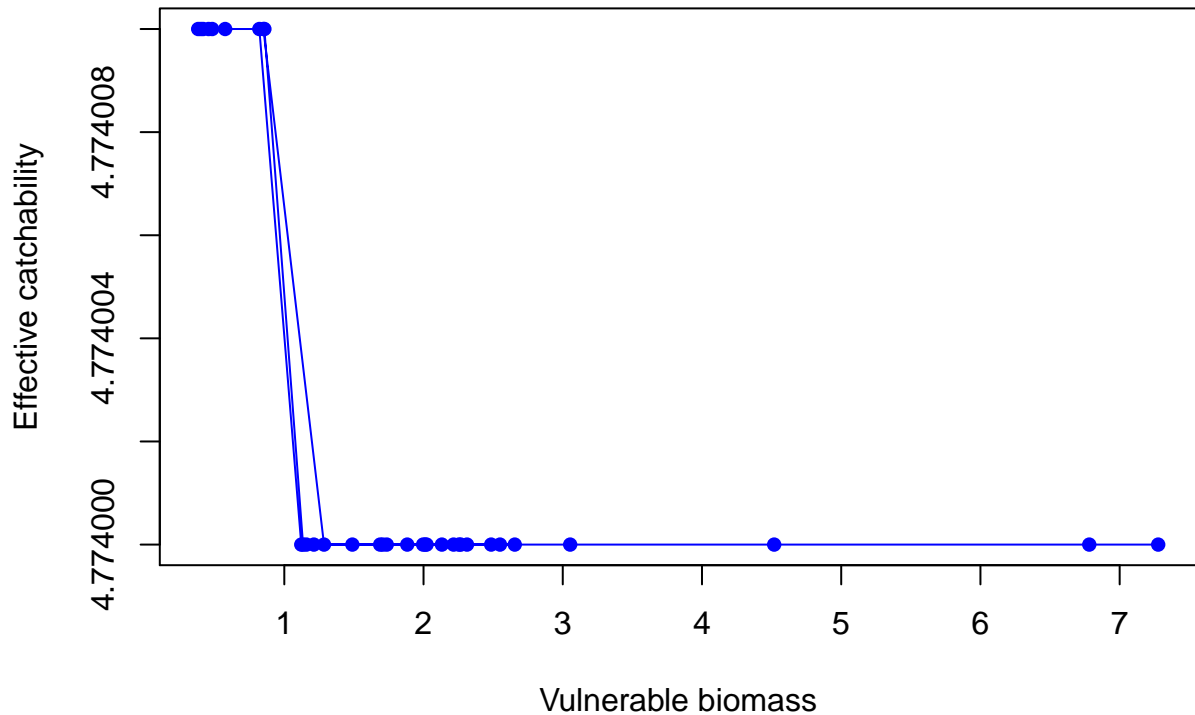
Log index



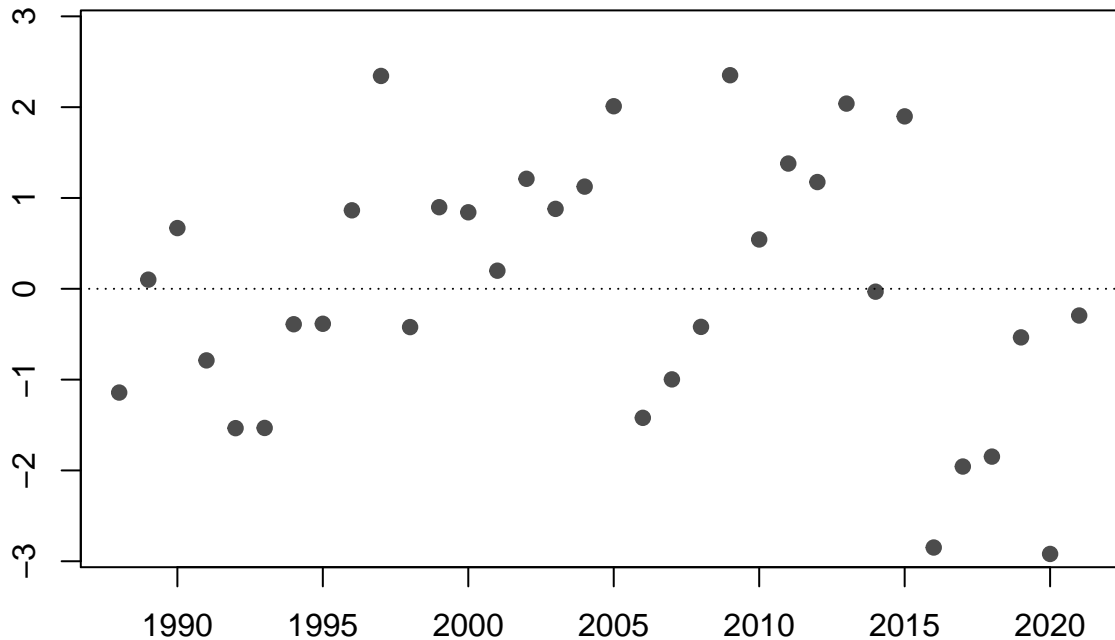
Log index



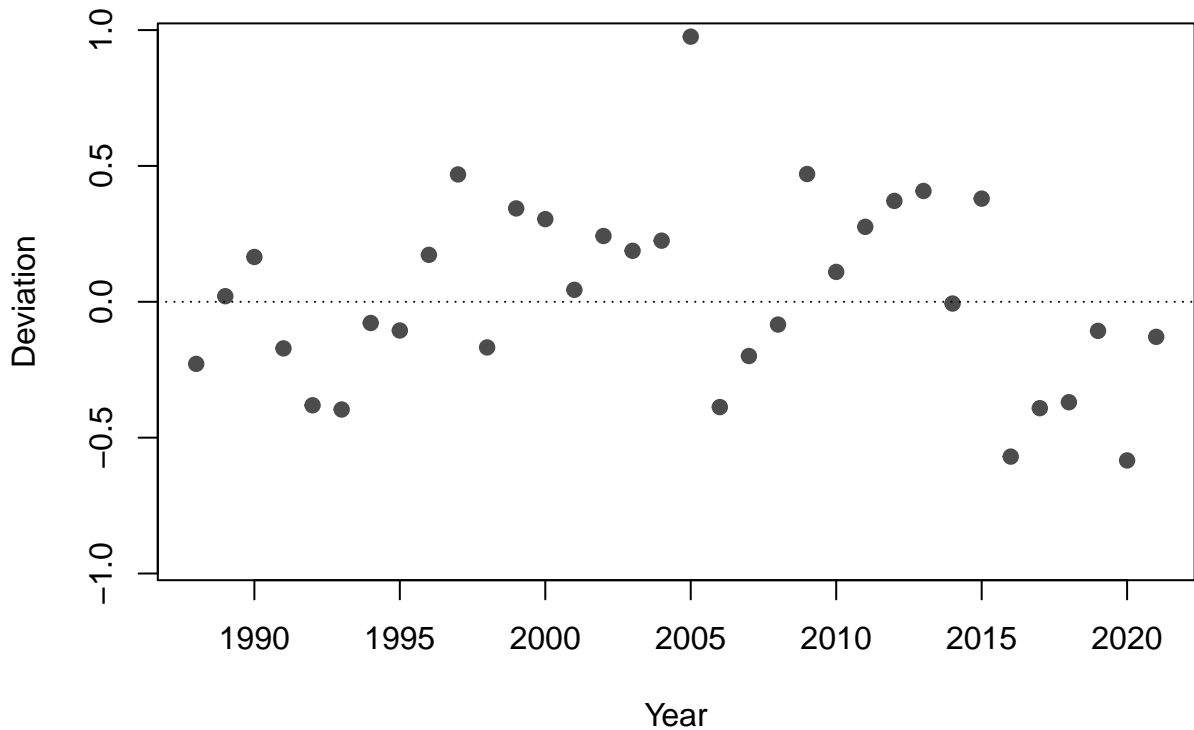




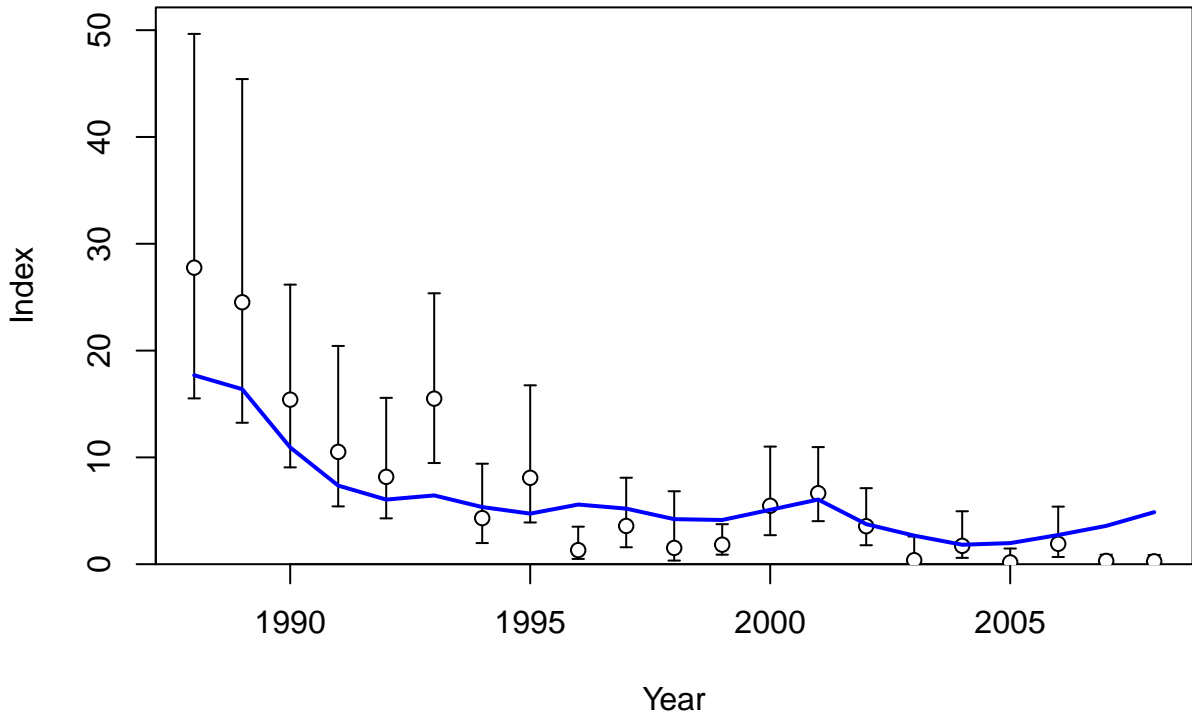
Residual

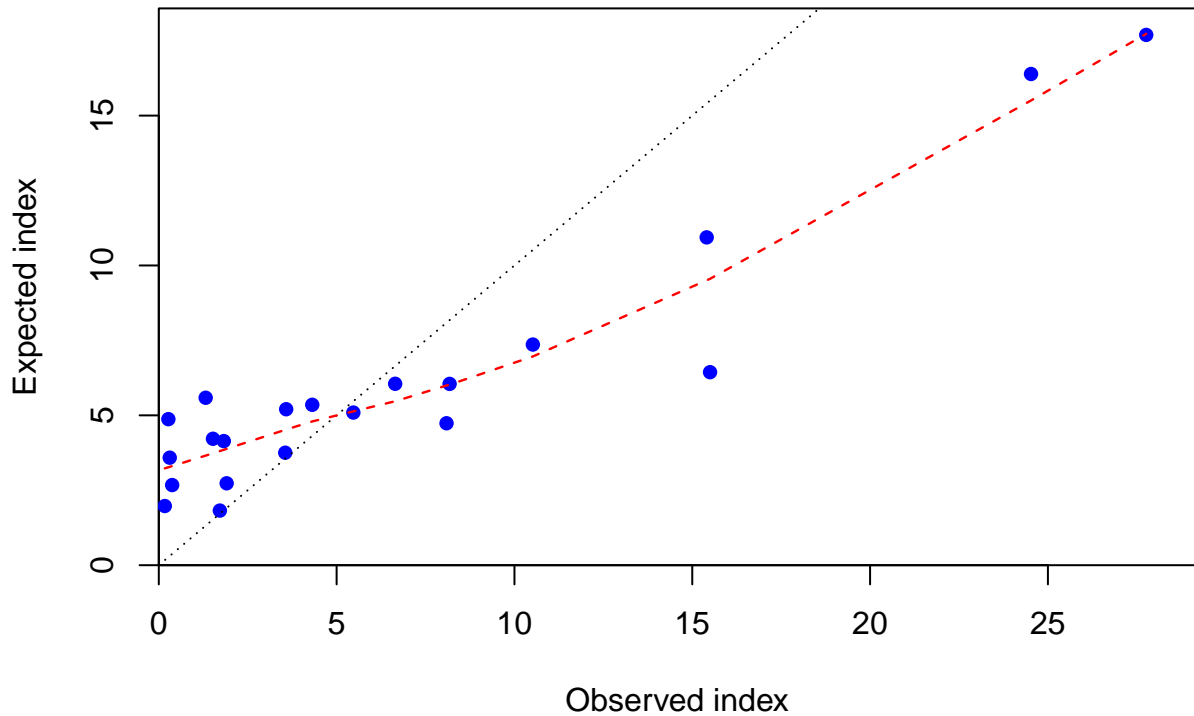


Year

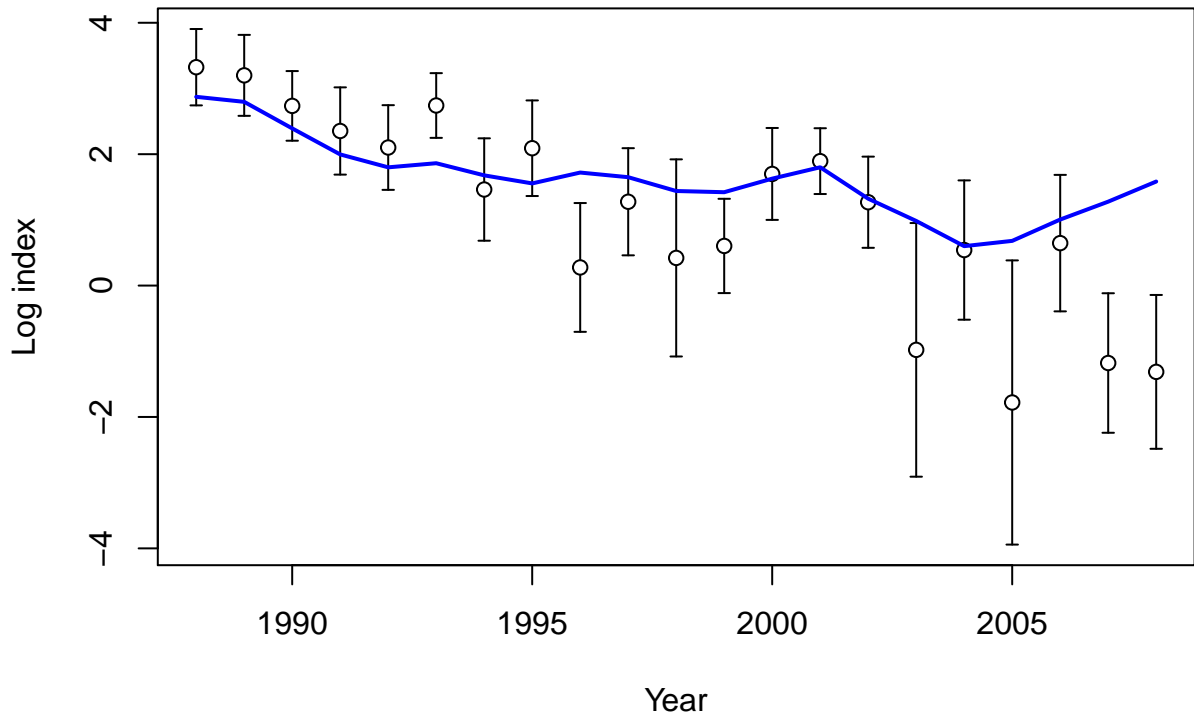


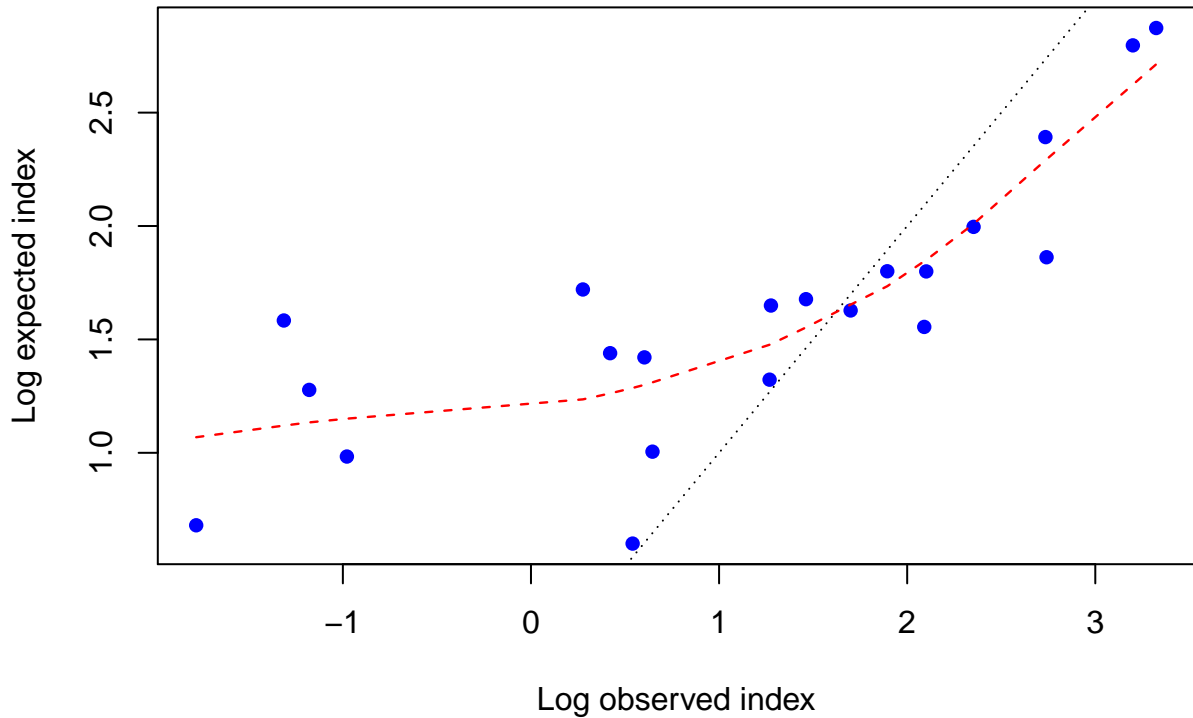


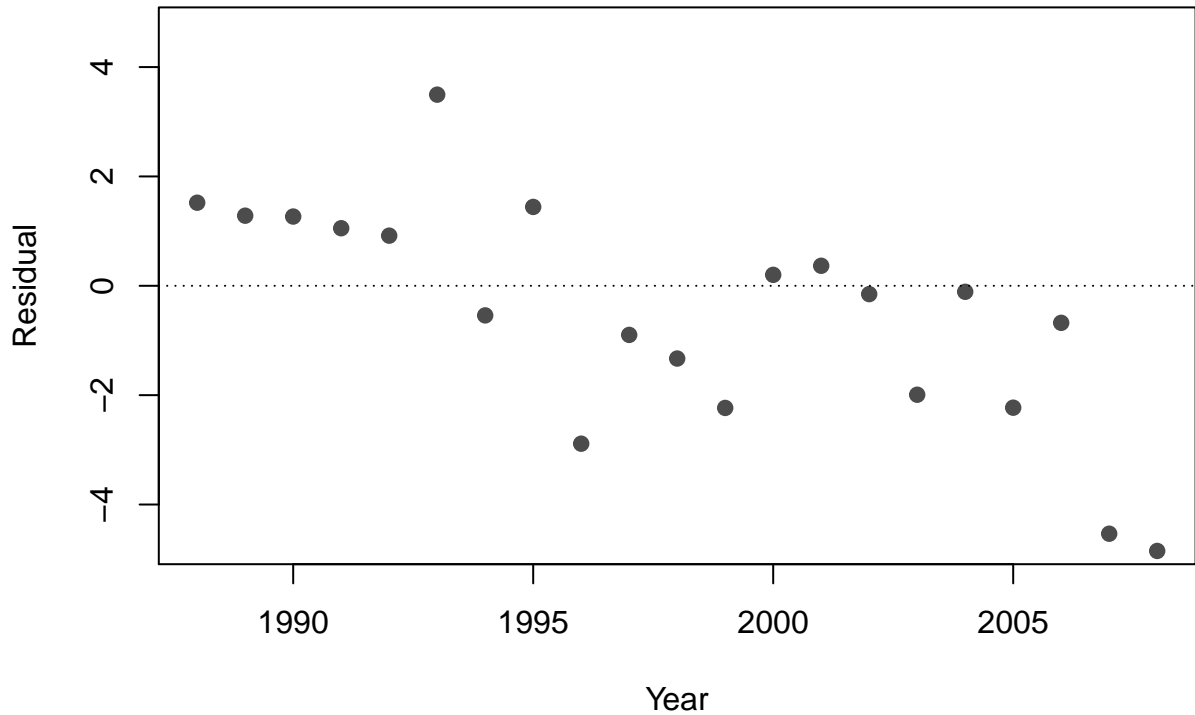




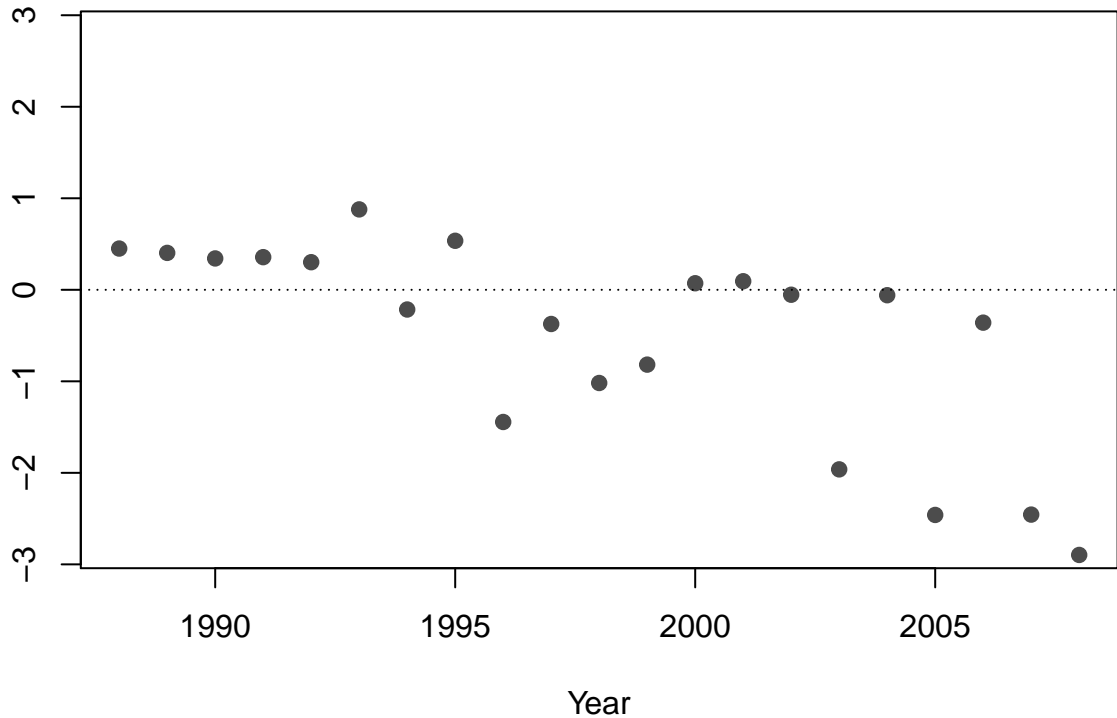


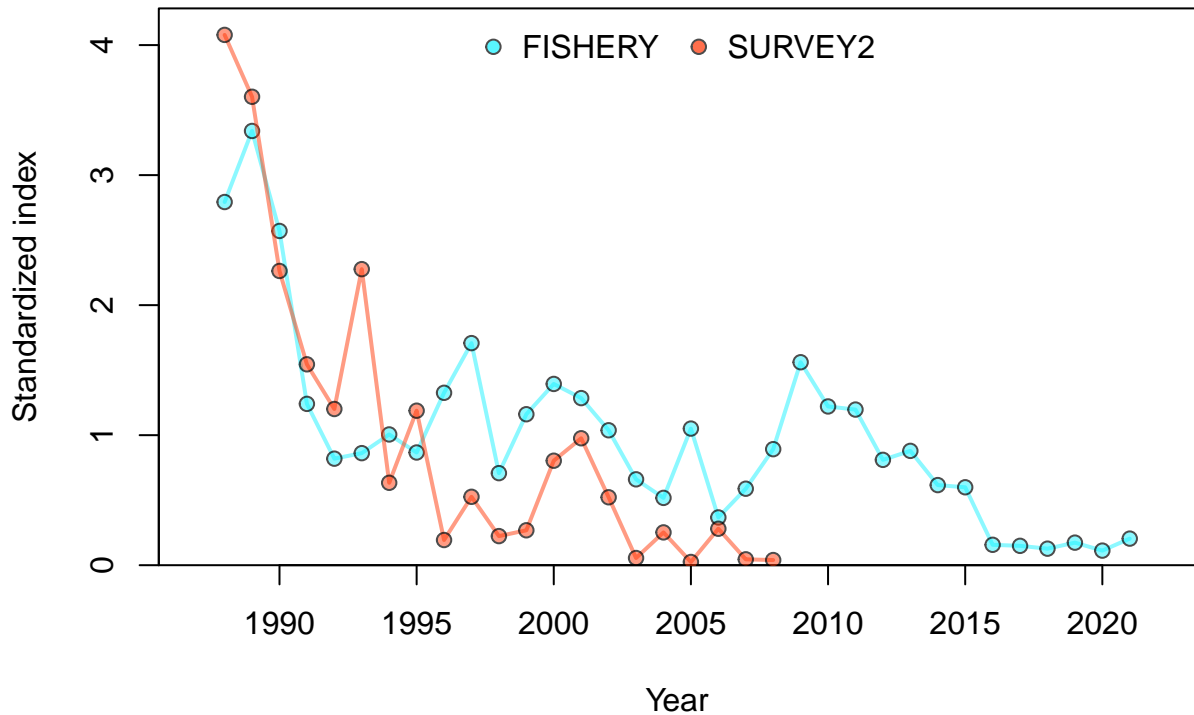




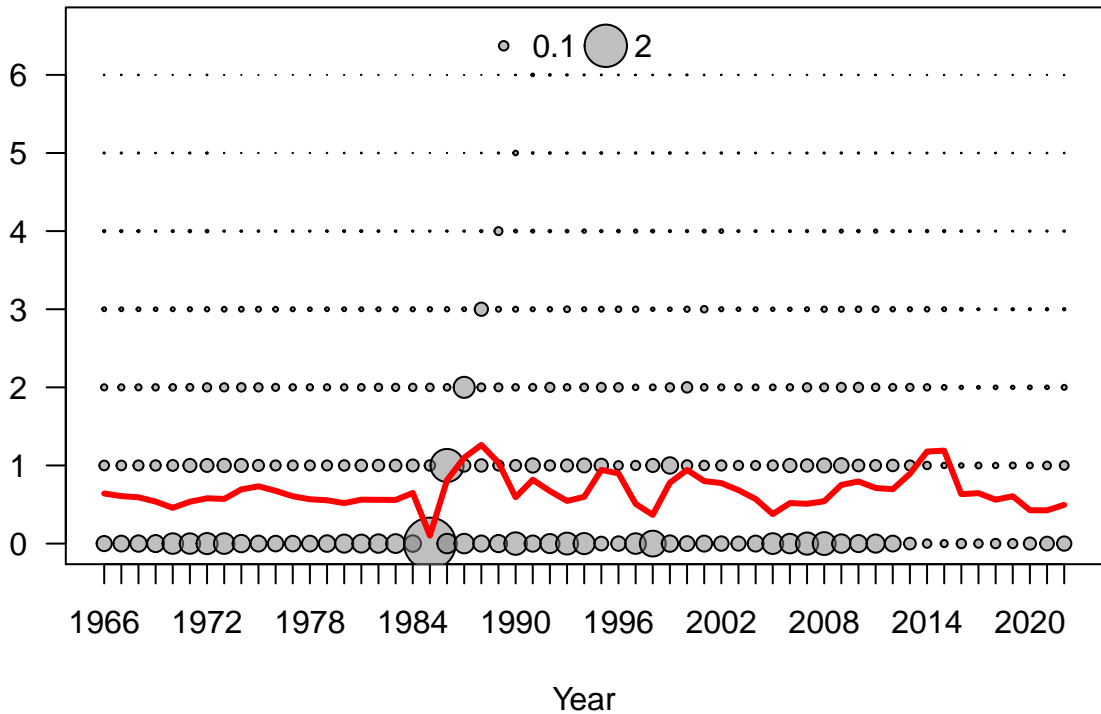


Deviation

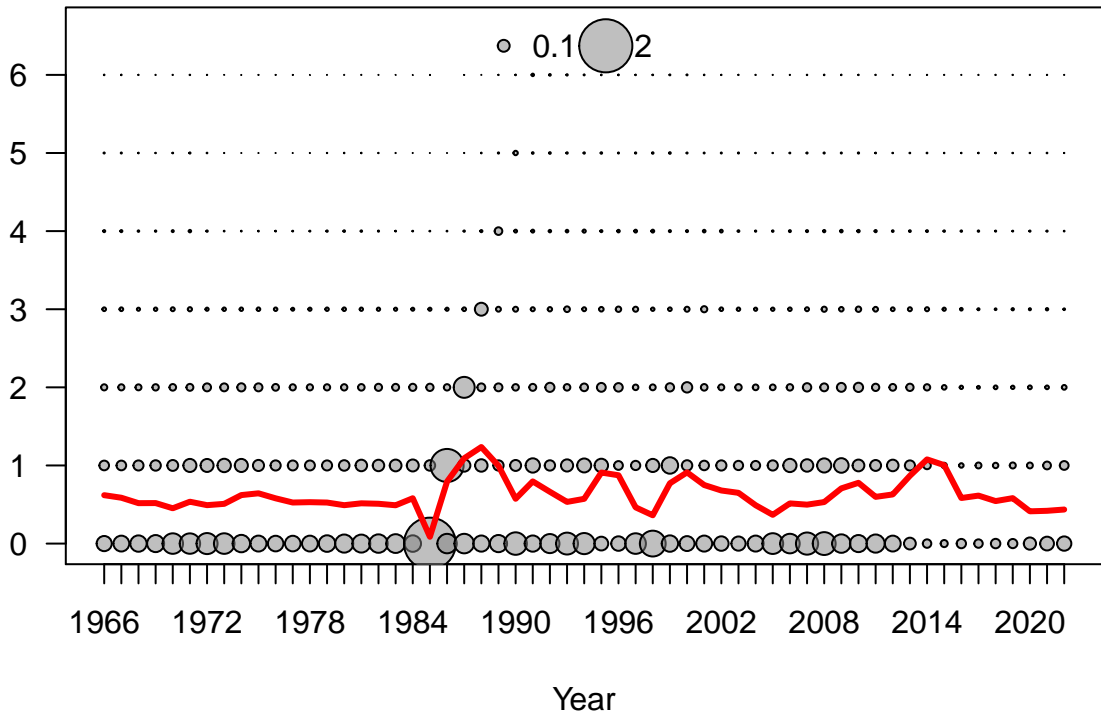


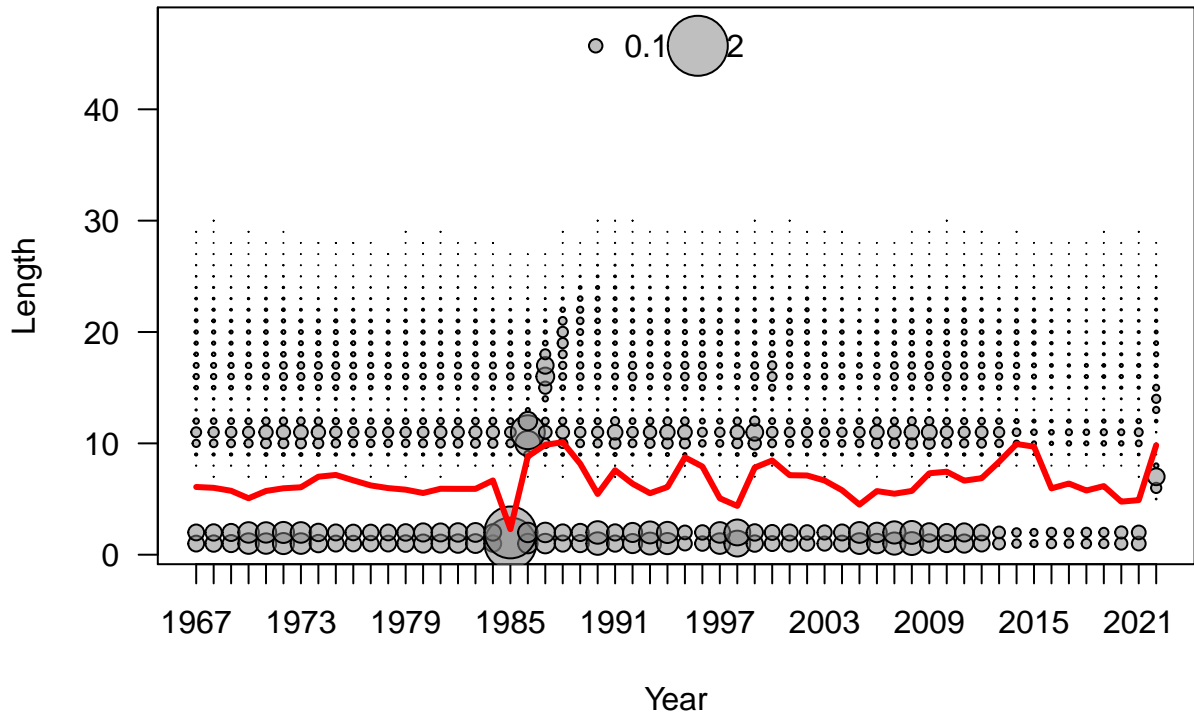


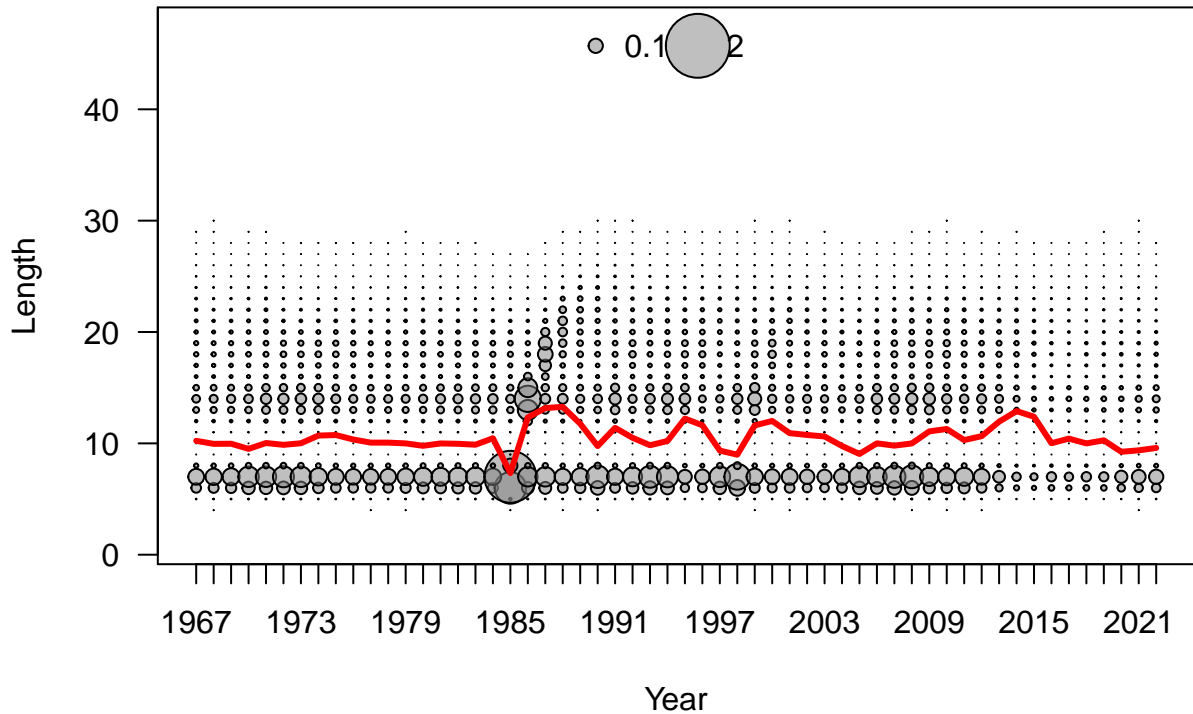
Age

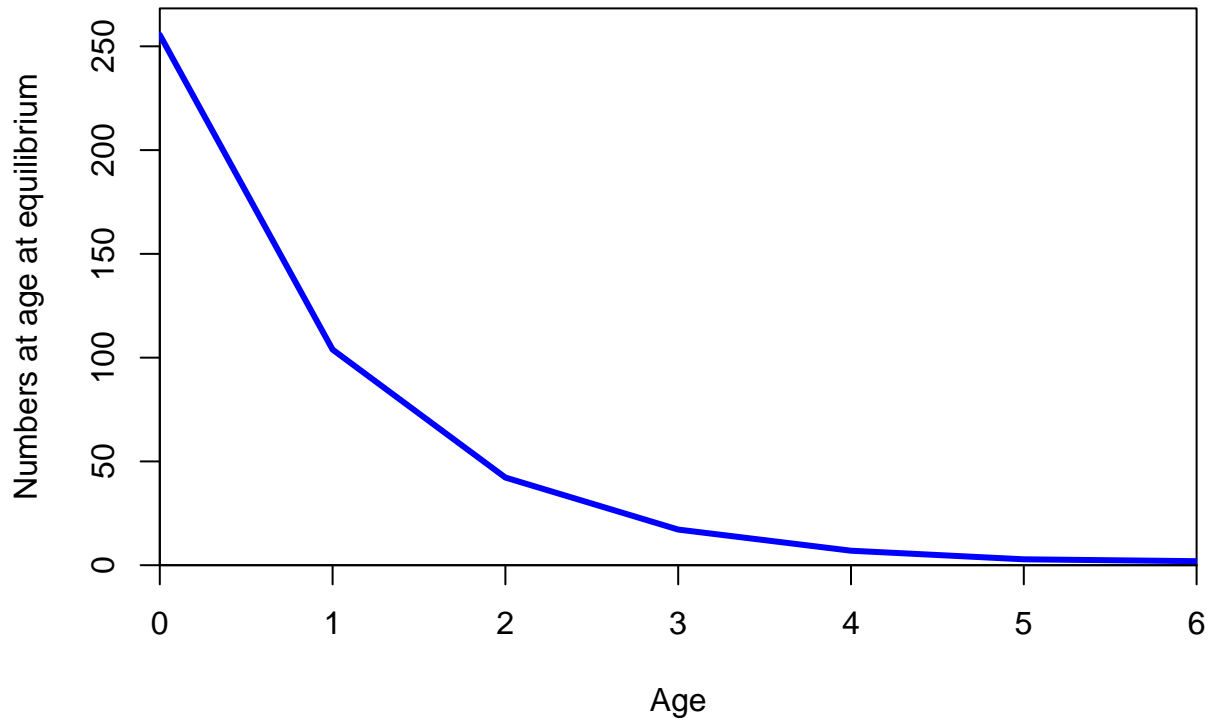


Age



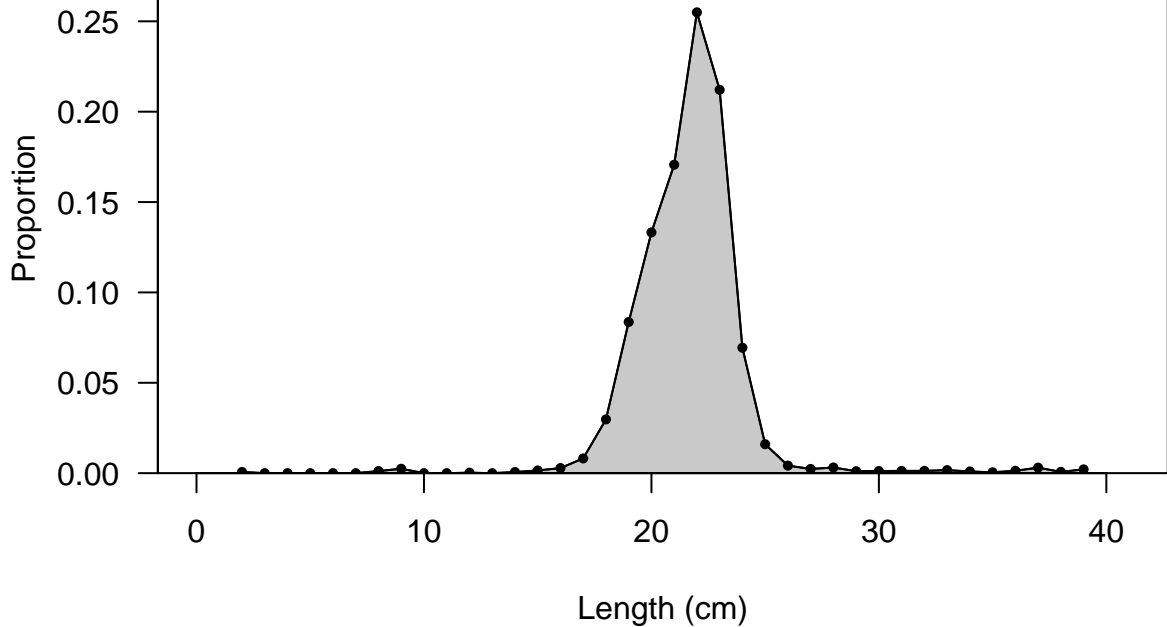


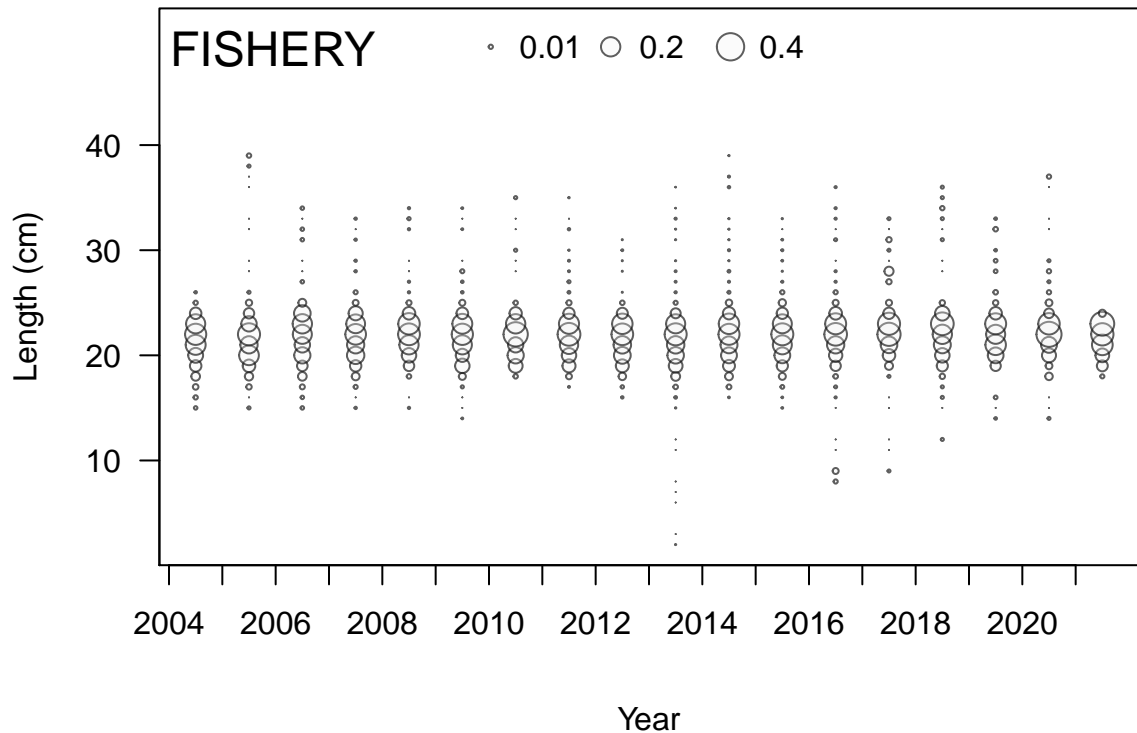


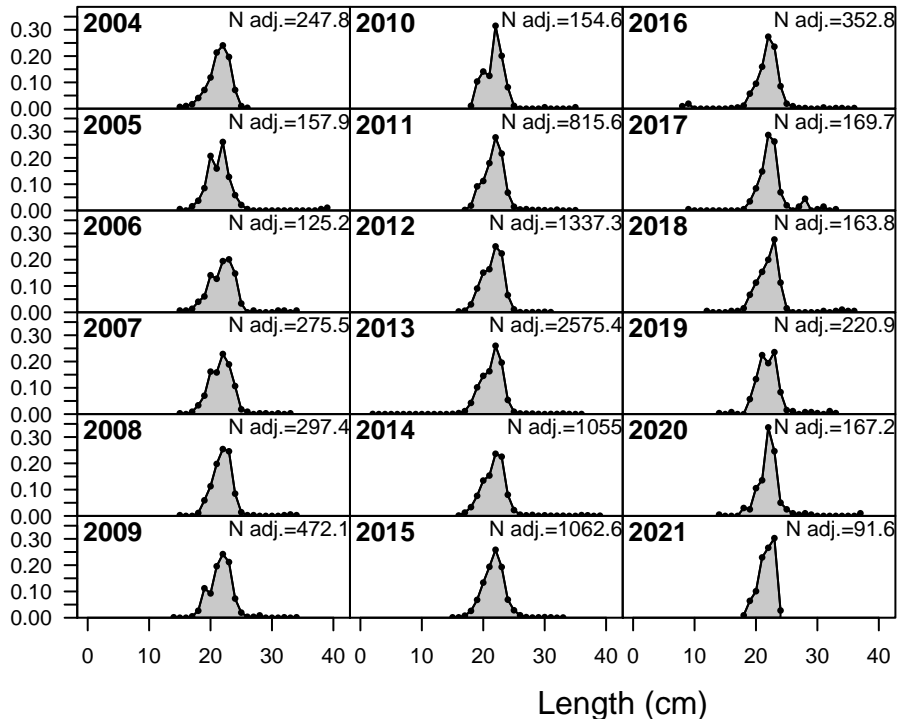


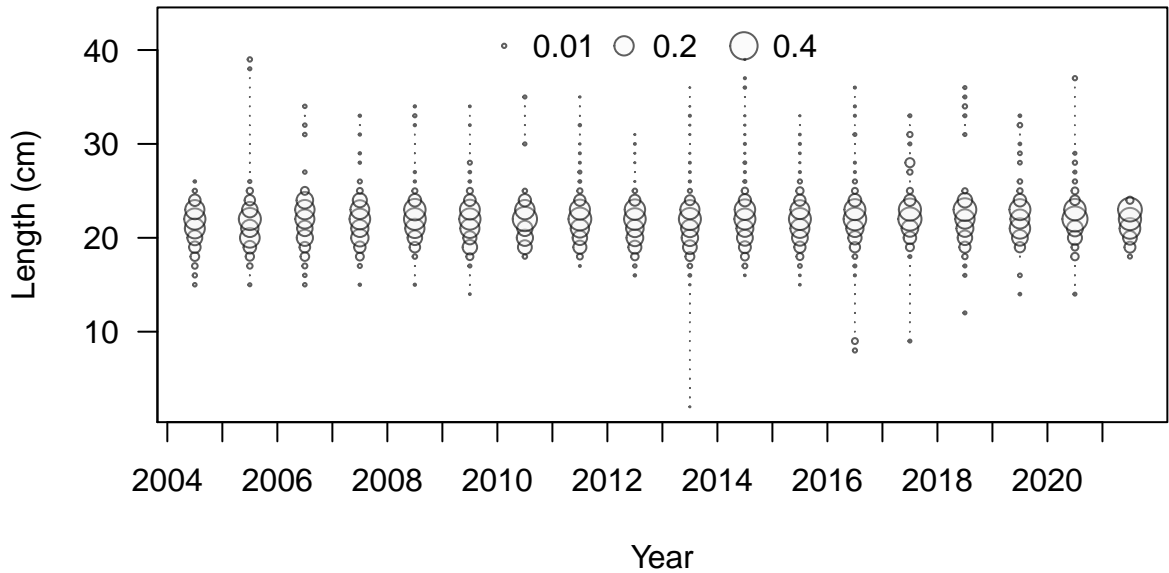
FISHERY

Sum of N adj.=9742.3

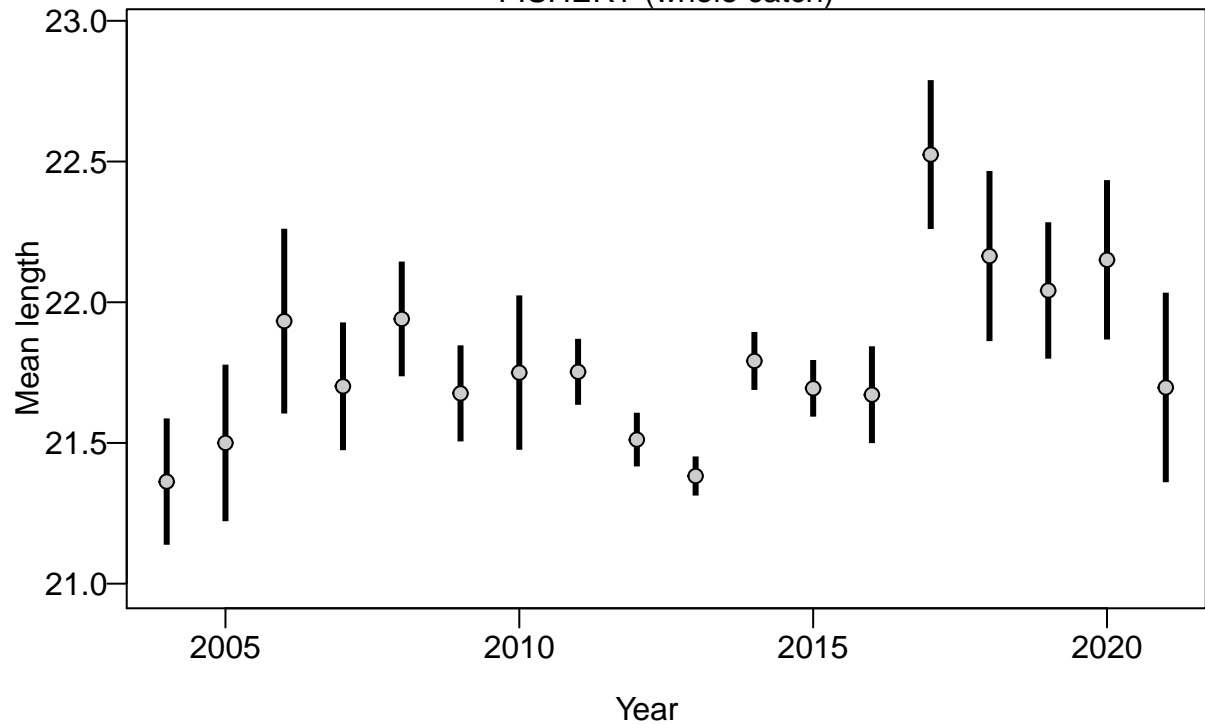


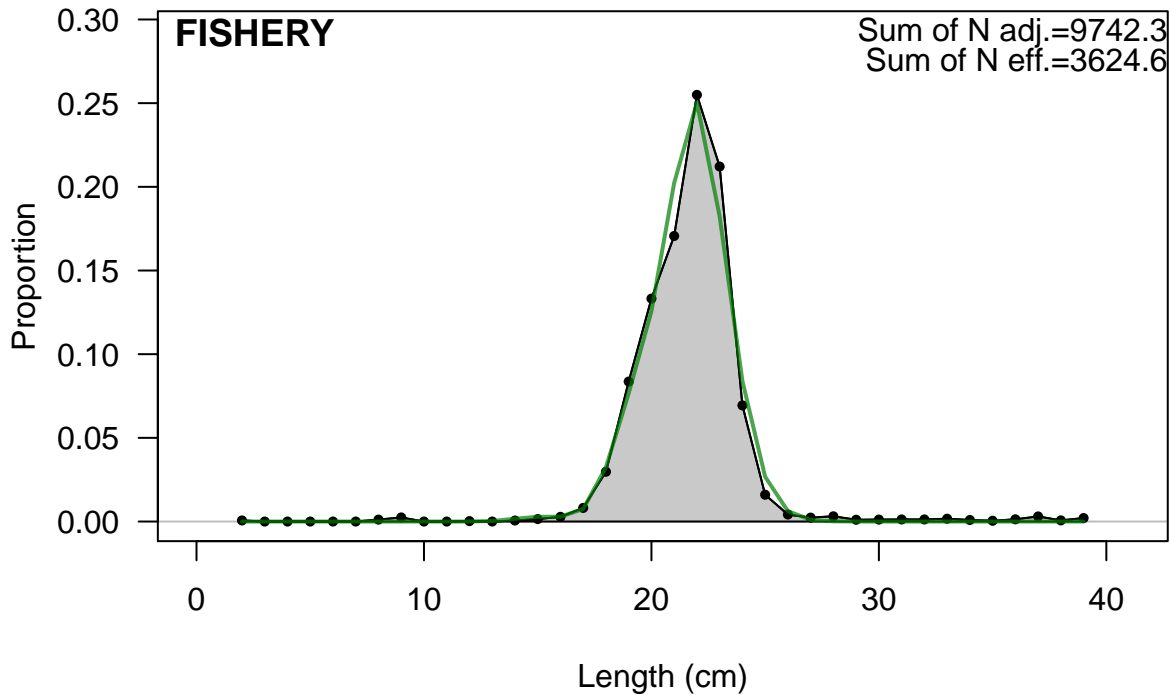


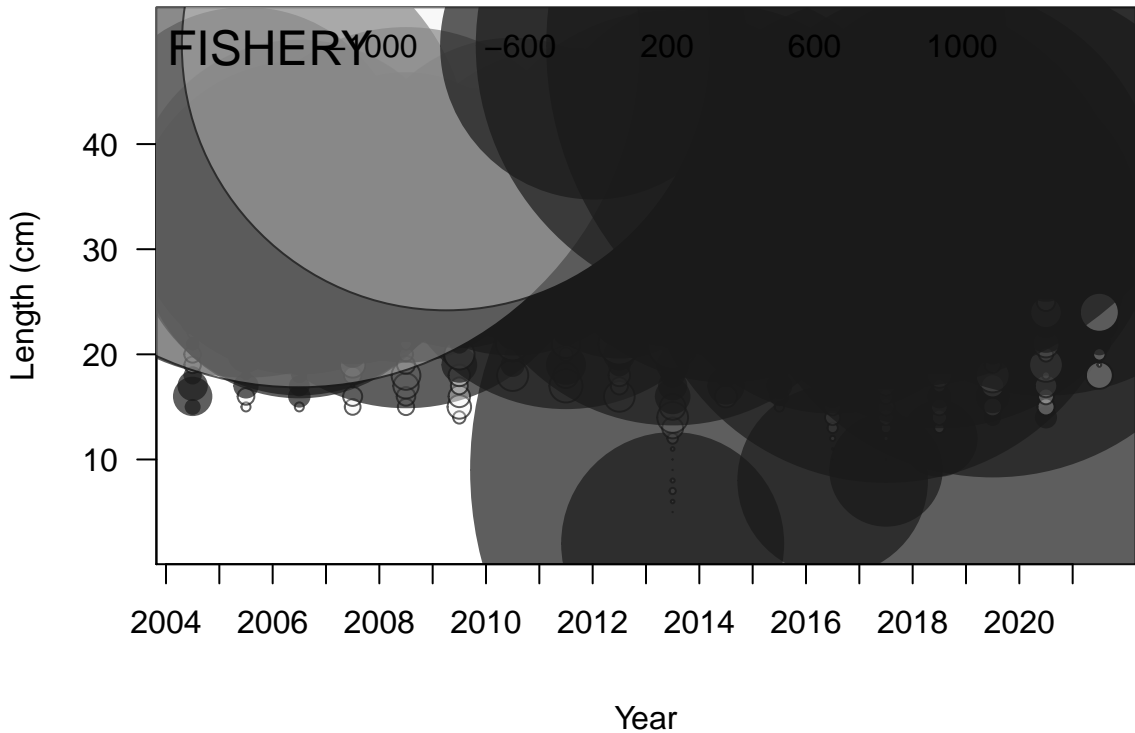


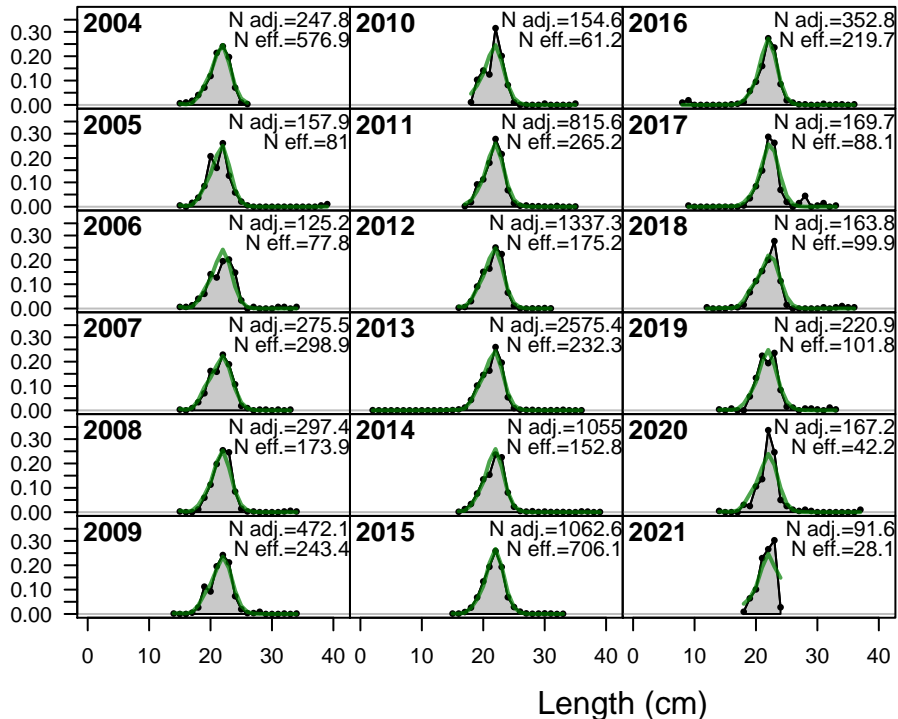


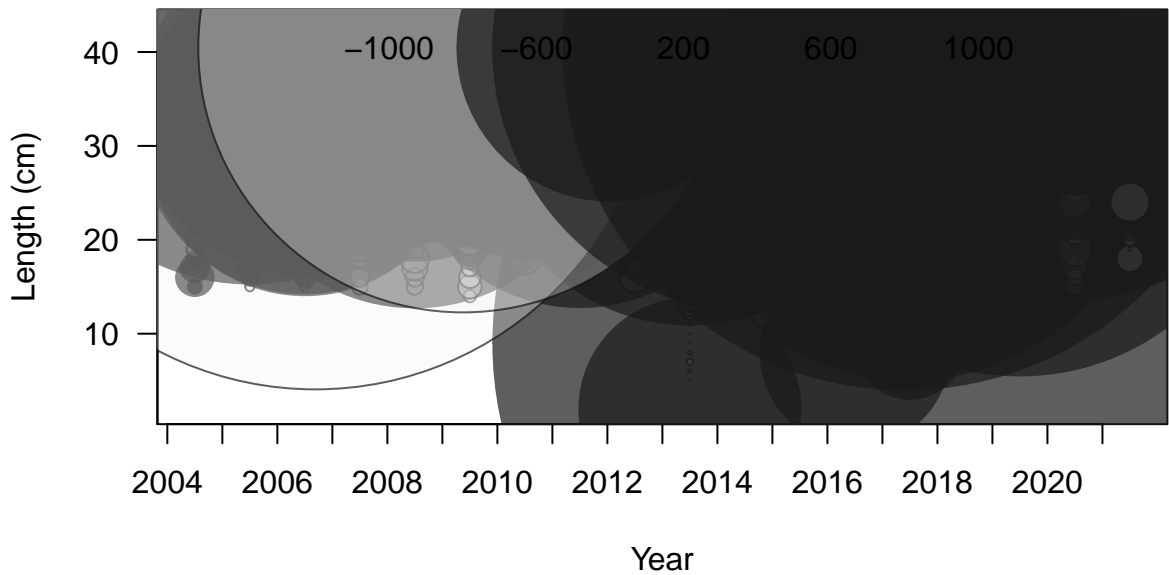
FISHERY (whole catch)



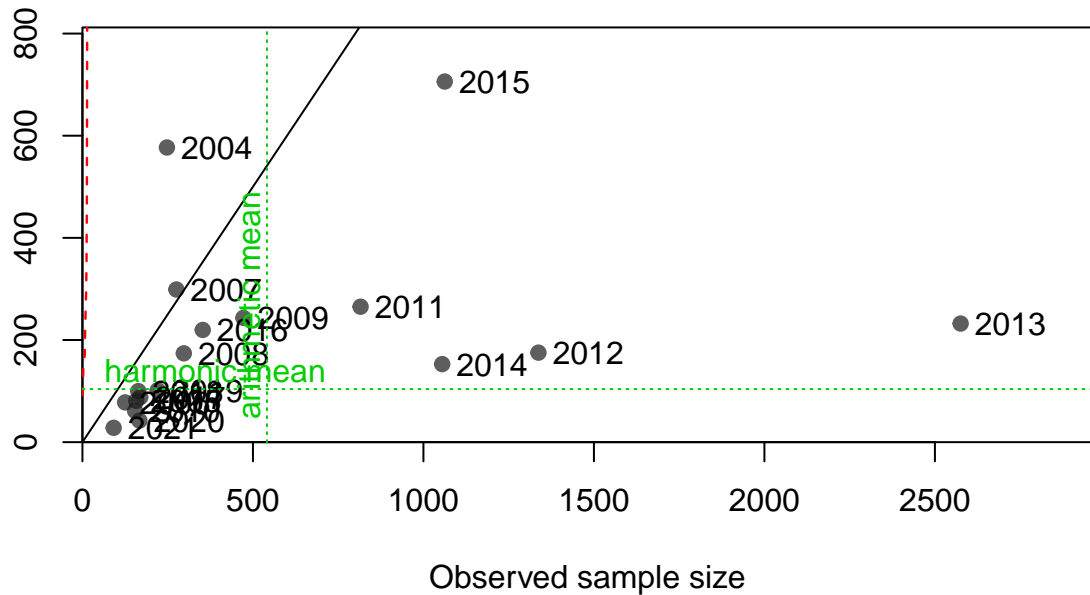








Effective sample size



FISHERY (whole catch)

