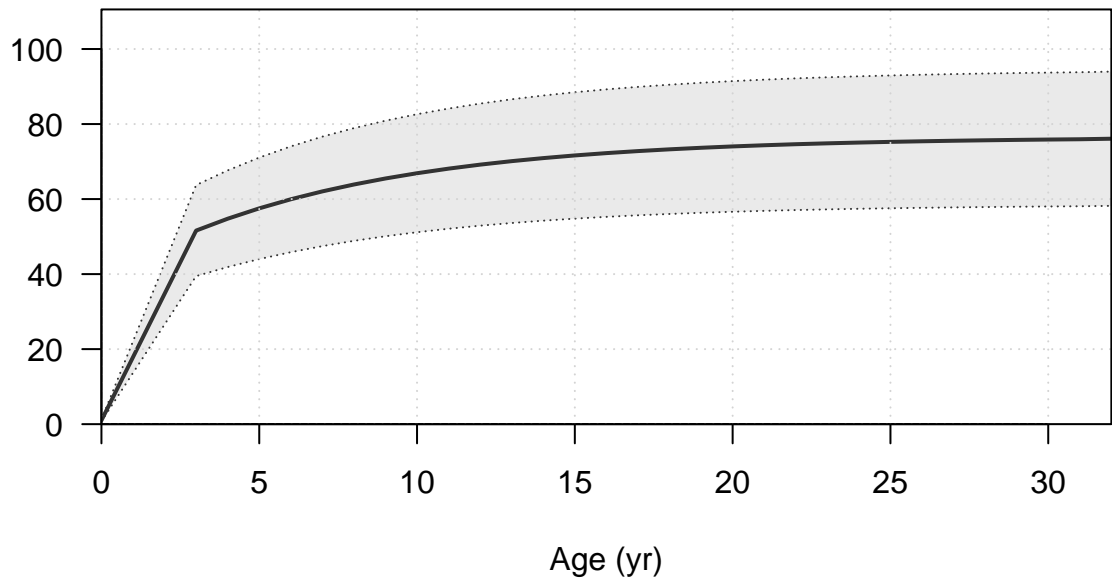
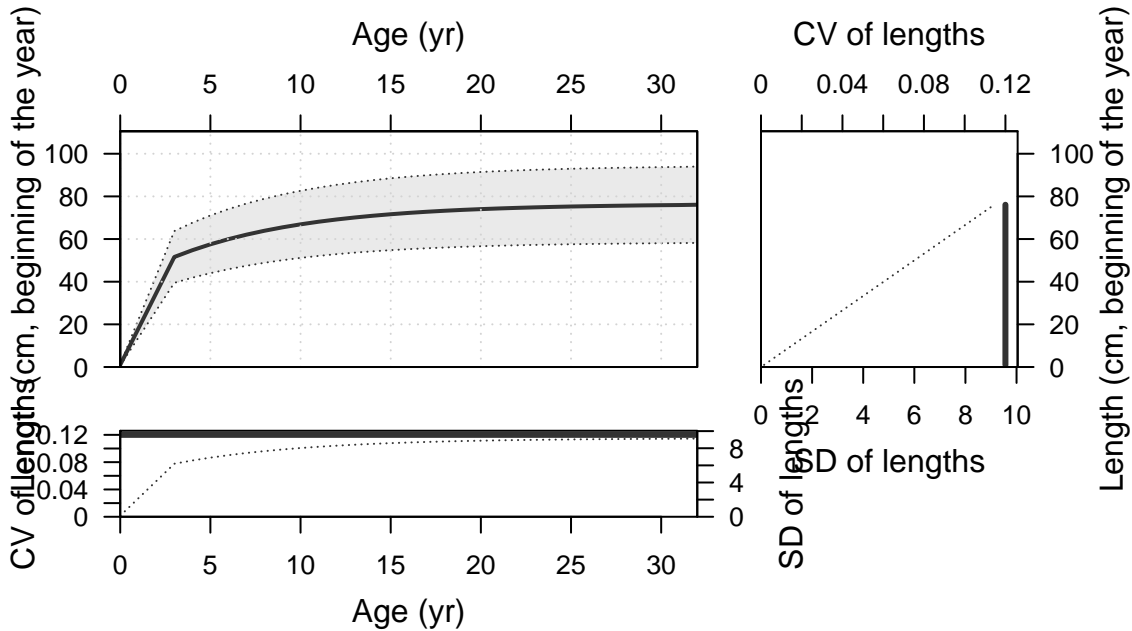
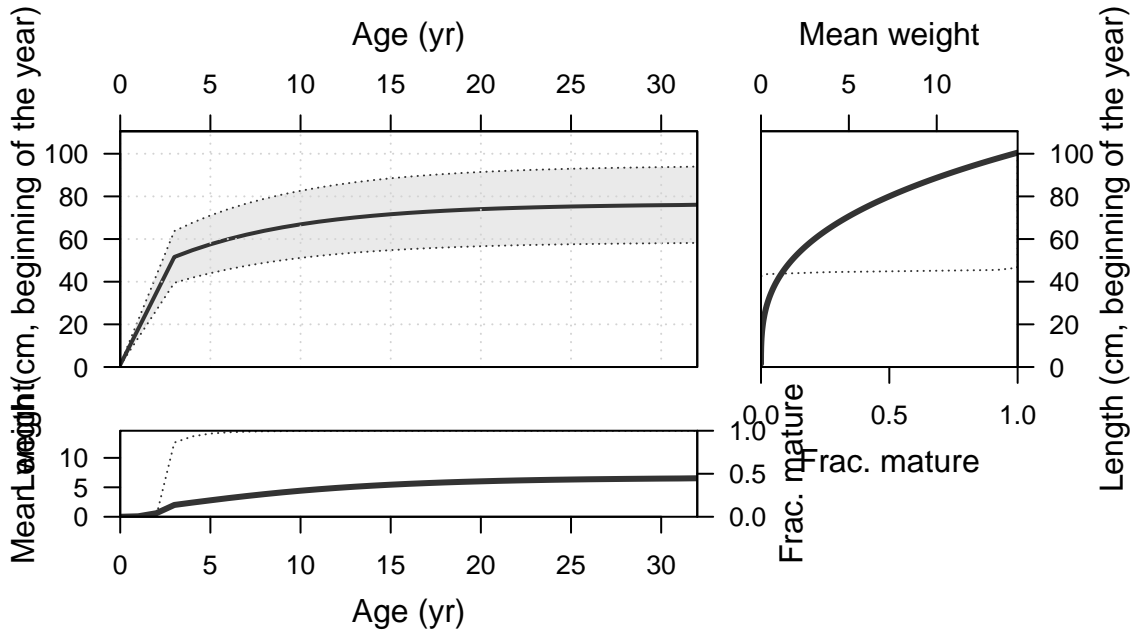


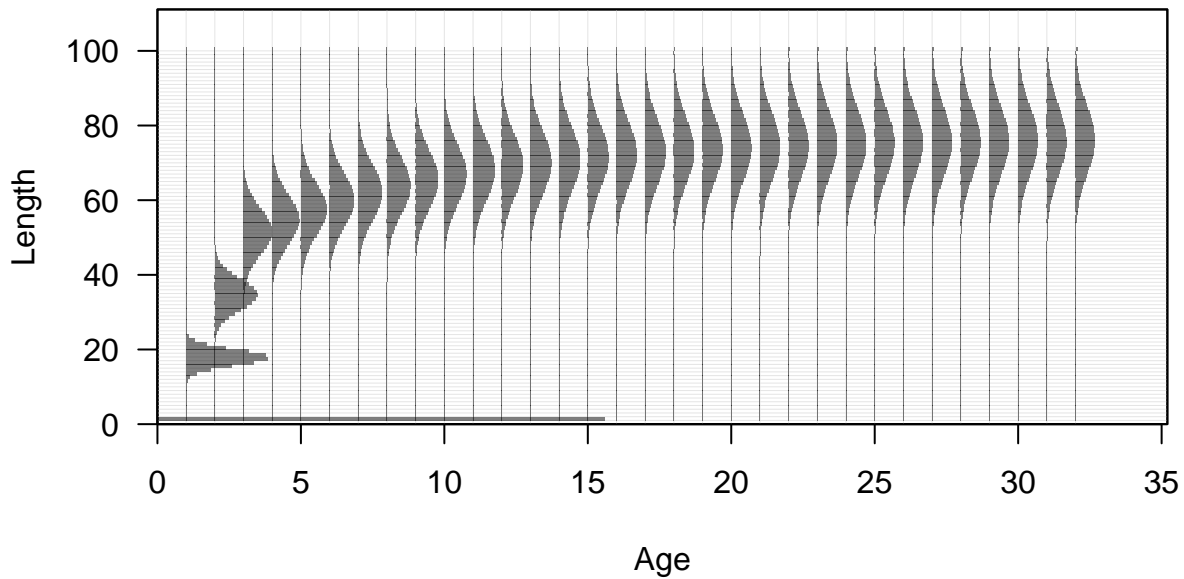
Plots created using the 'r4ss' package in R  
Stock Synthesis version: 3.30.19.b  
StartTime: Fri Jun 17 13:21:38 2022  
Data\_File: data.ss  
Control\_File: control.ss

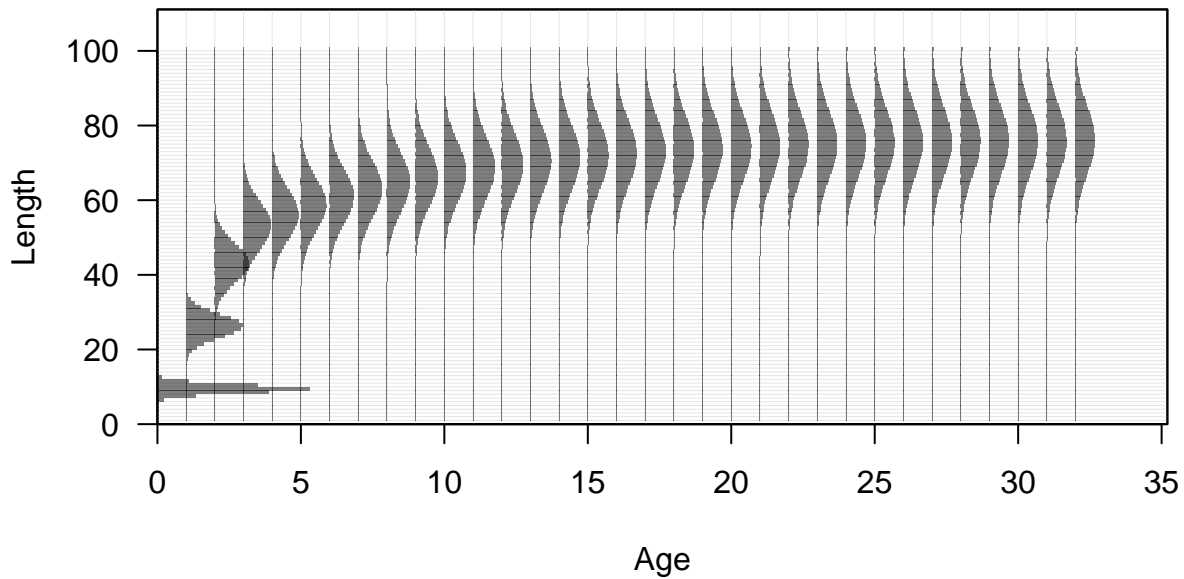
Length (cm, beginning of the year)











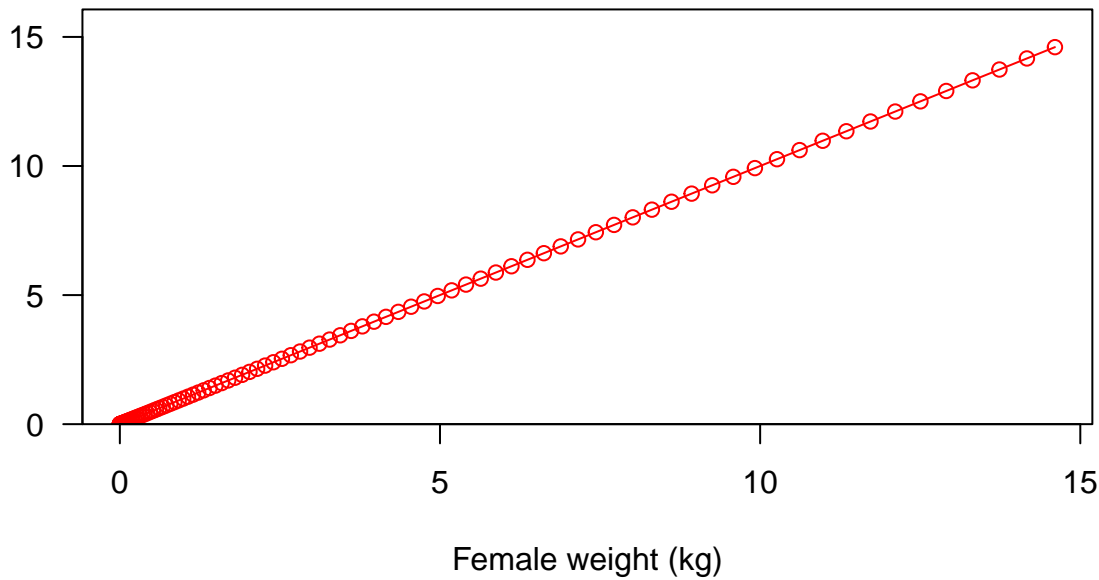








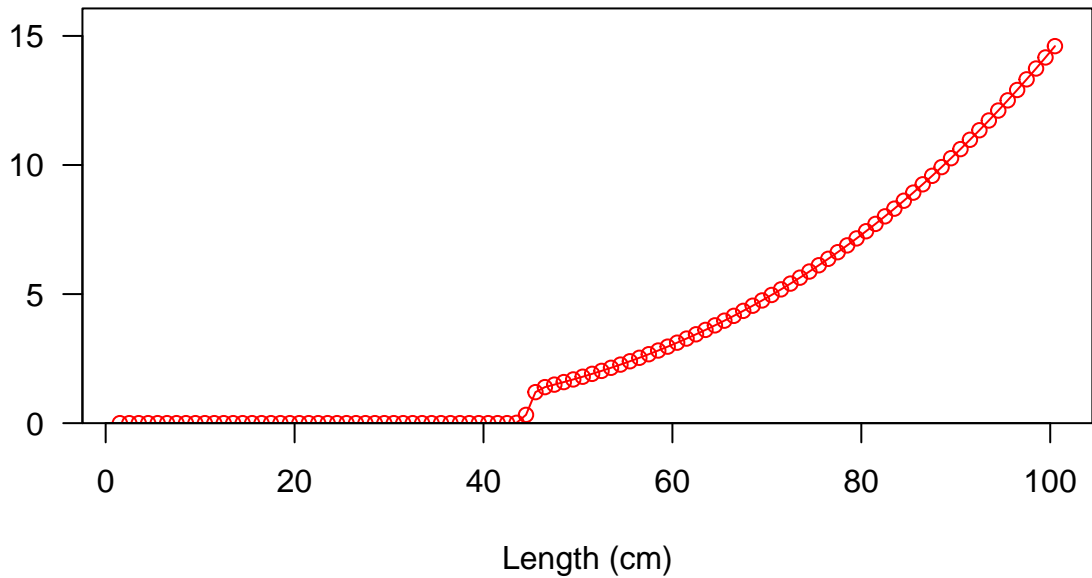
Fecundity



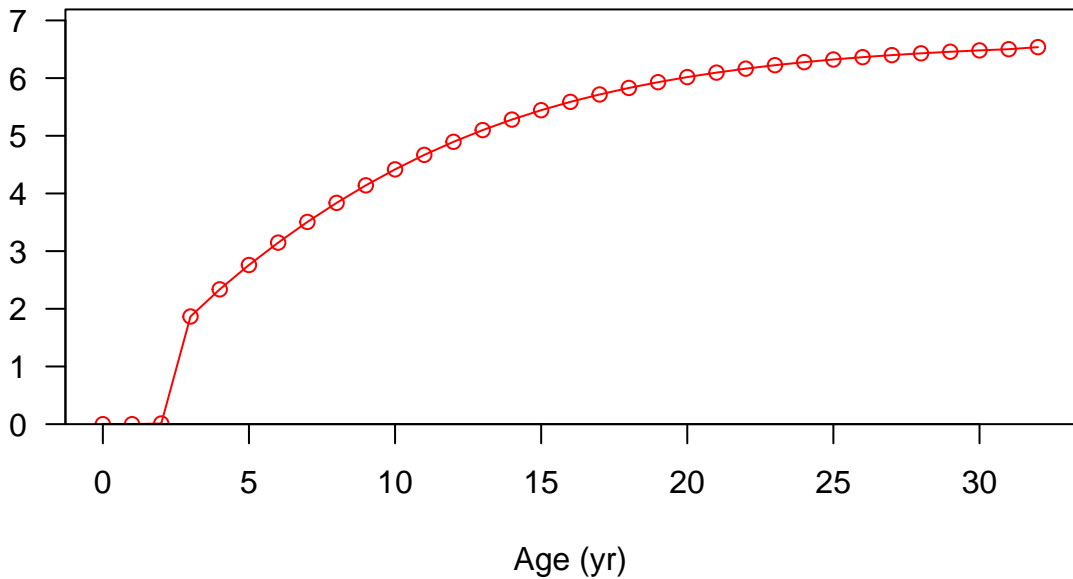
Fecundity



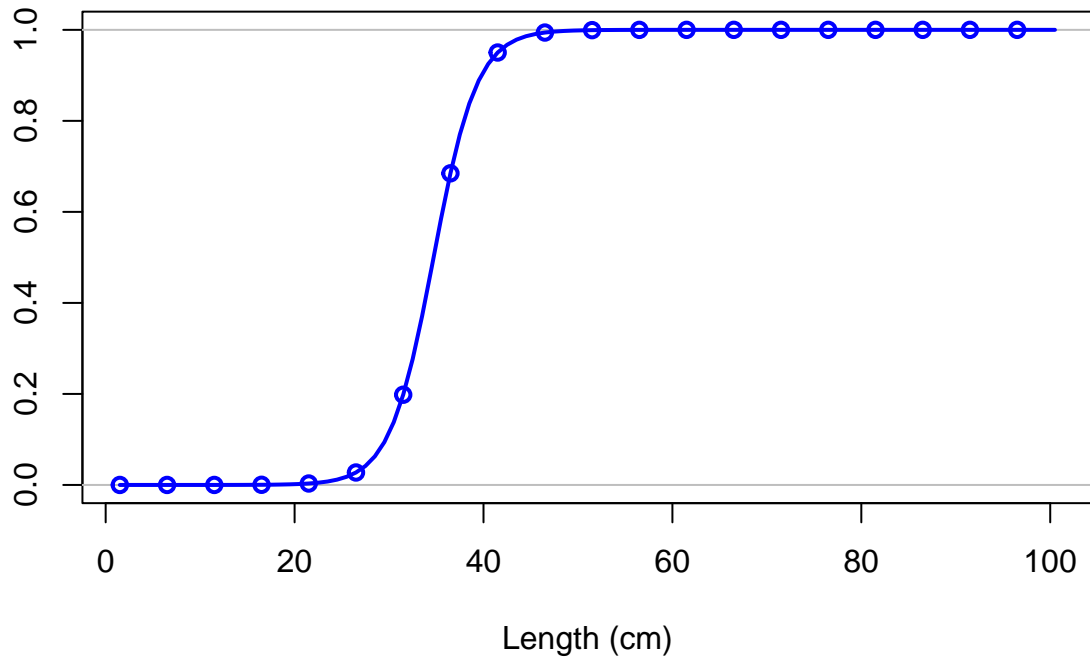
Spawning output



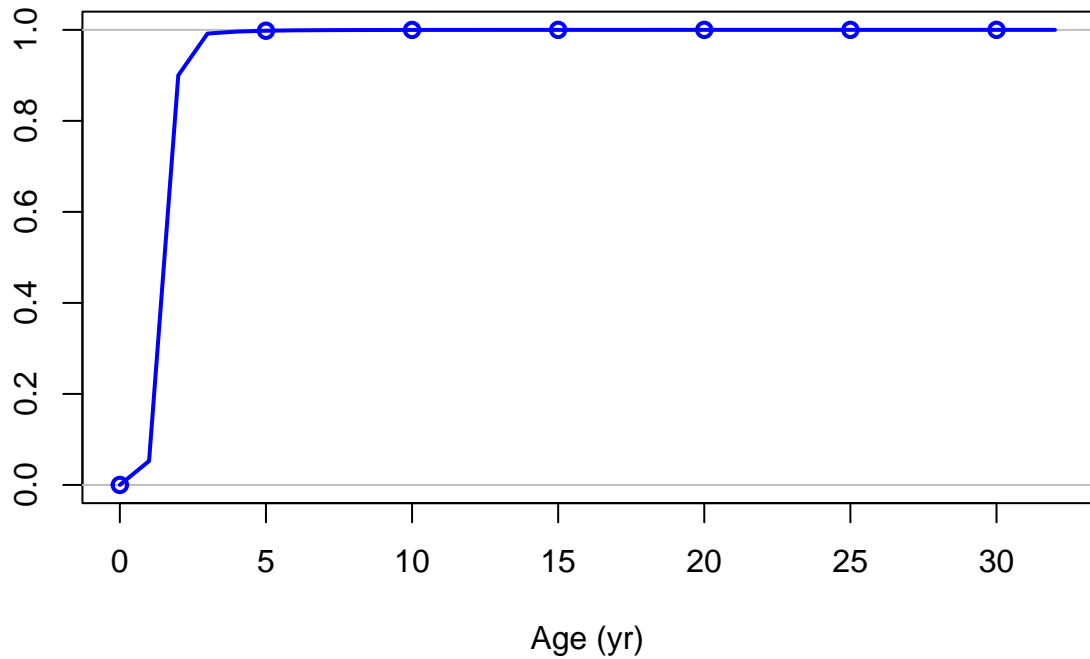
Spawning output



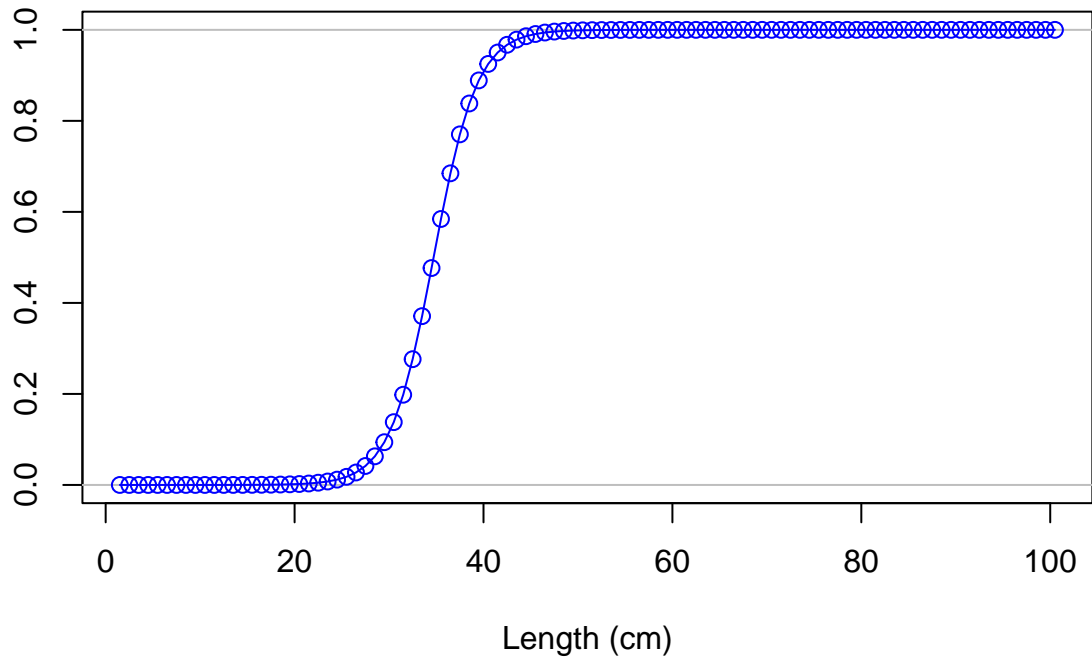
Selectivity



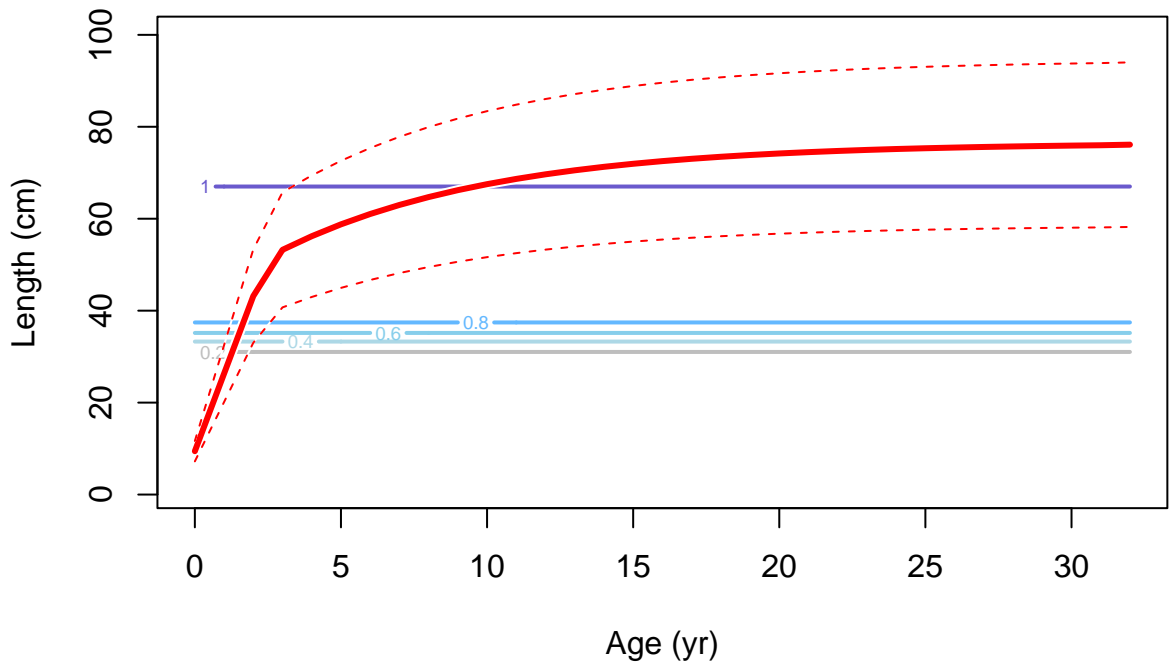
Selectivity



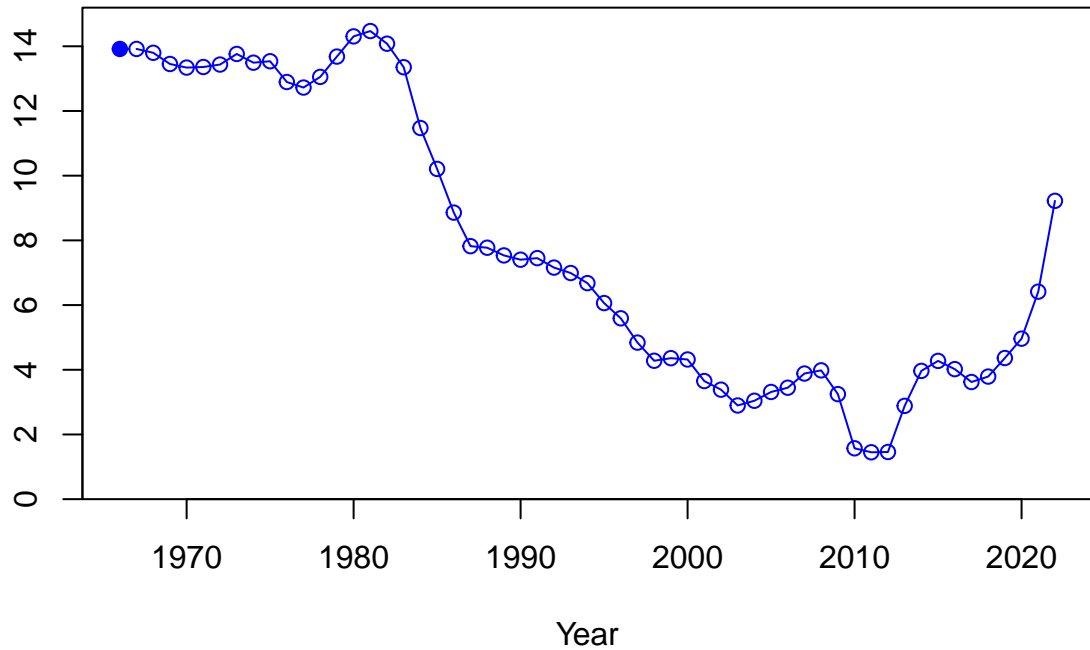
Selectivity



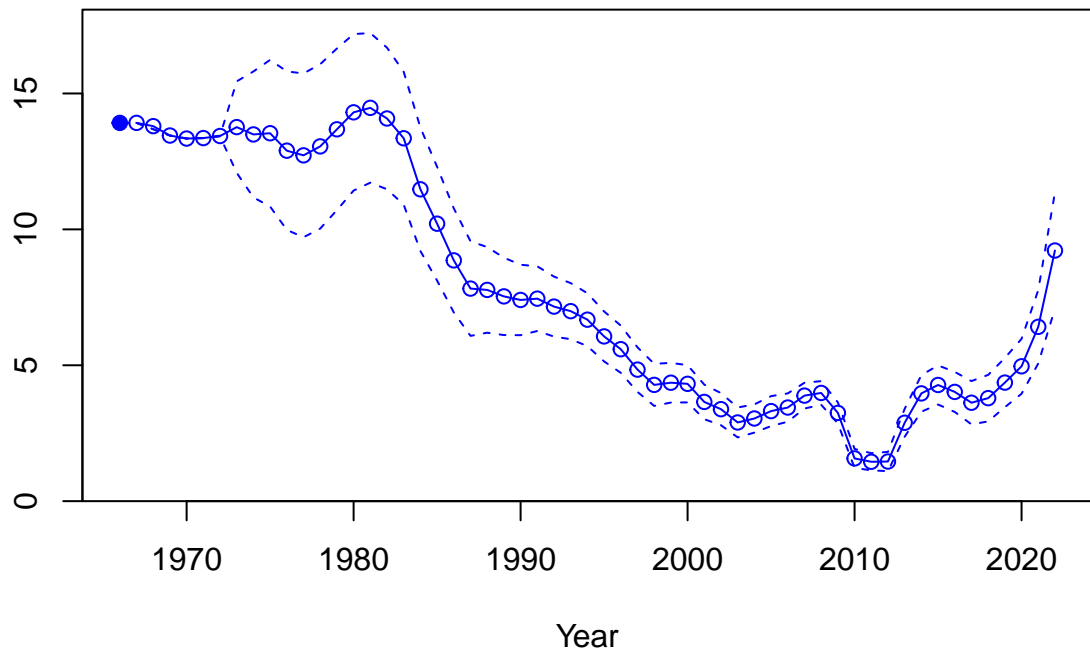




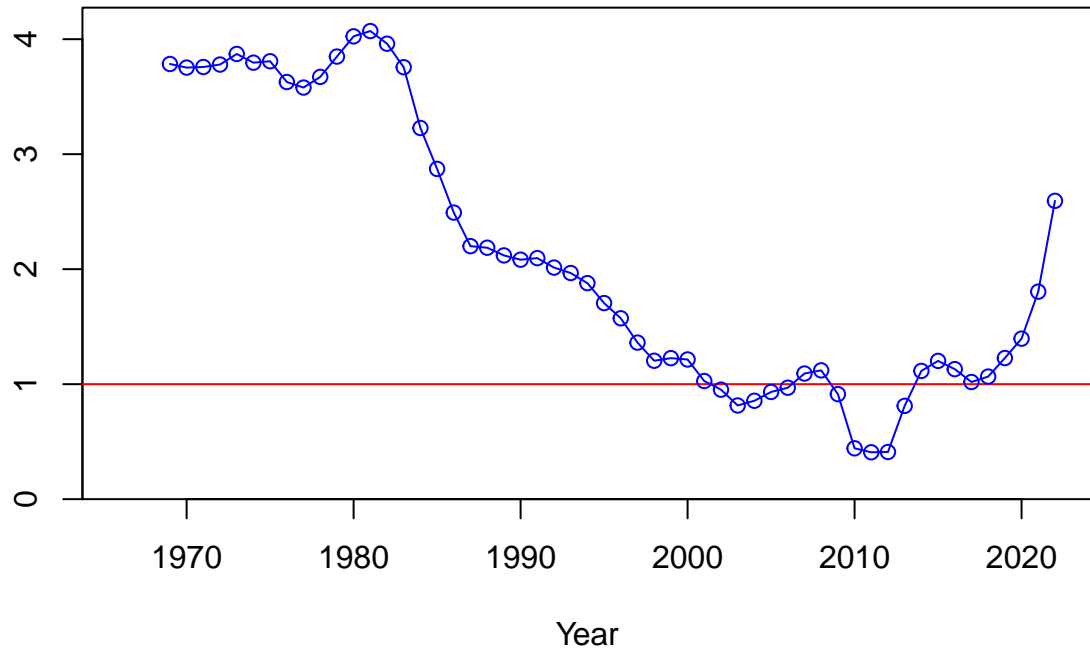
Spawning biomass (mt)



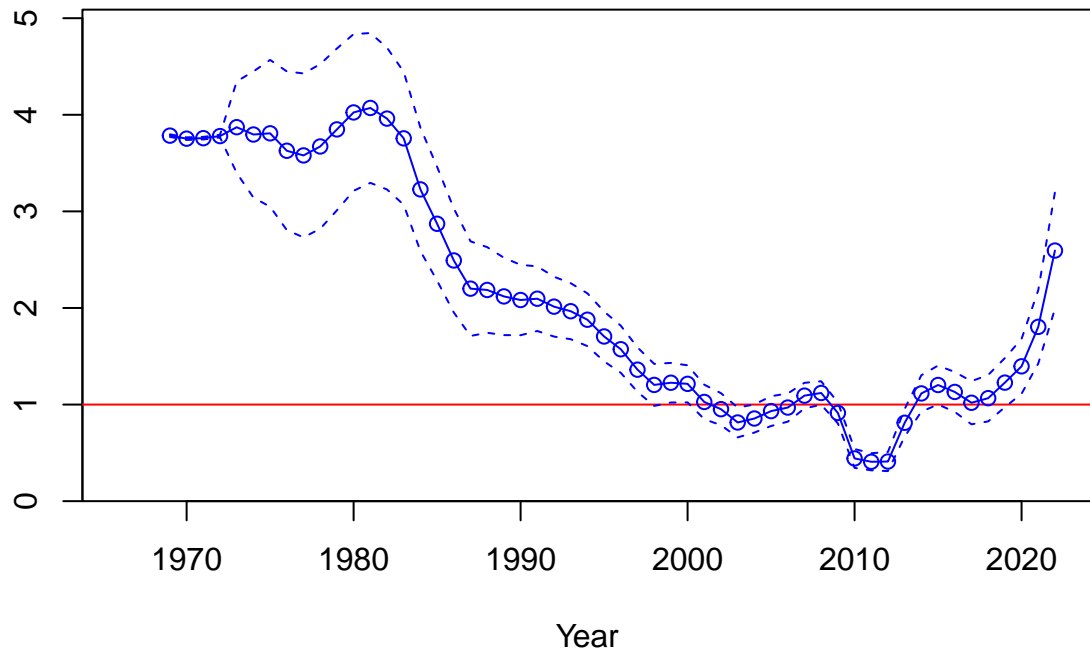
Spawning biomass (mt)

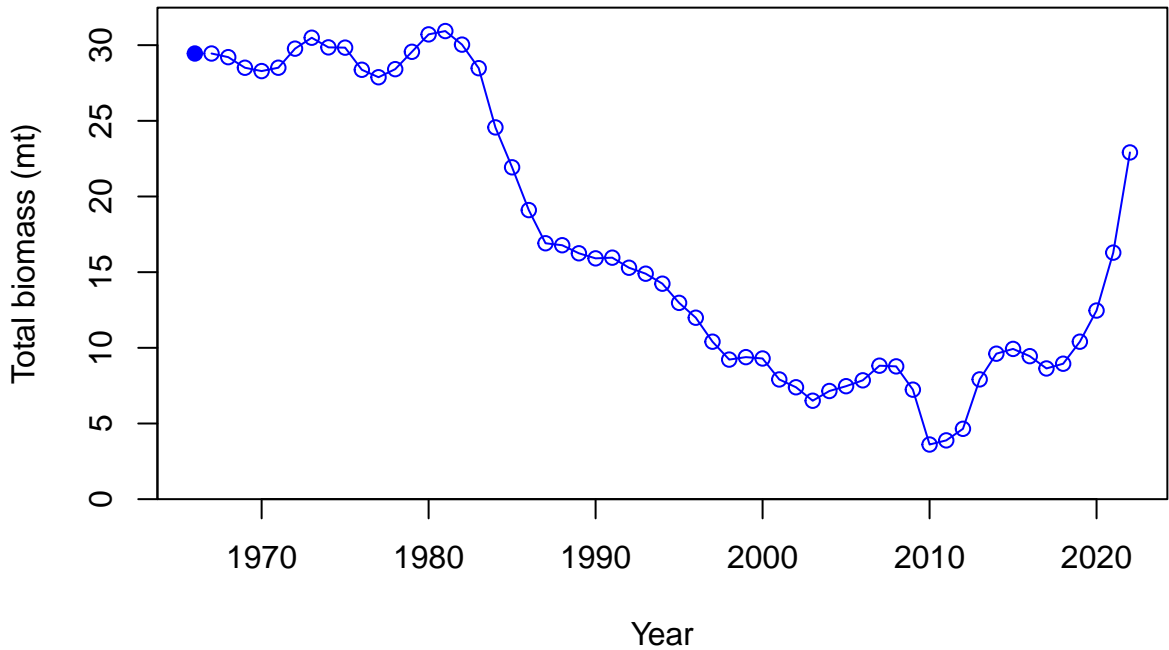


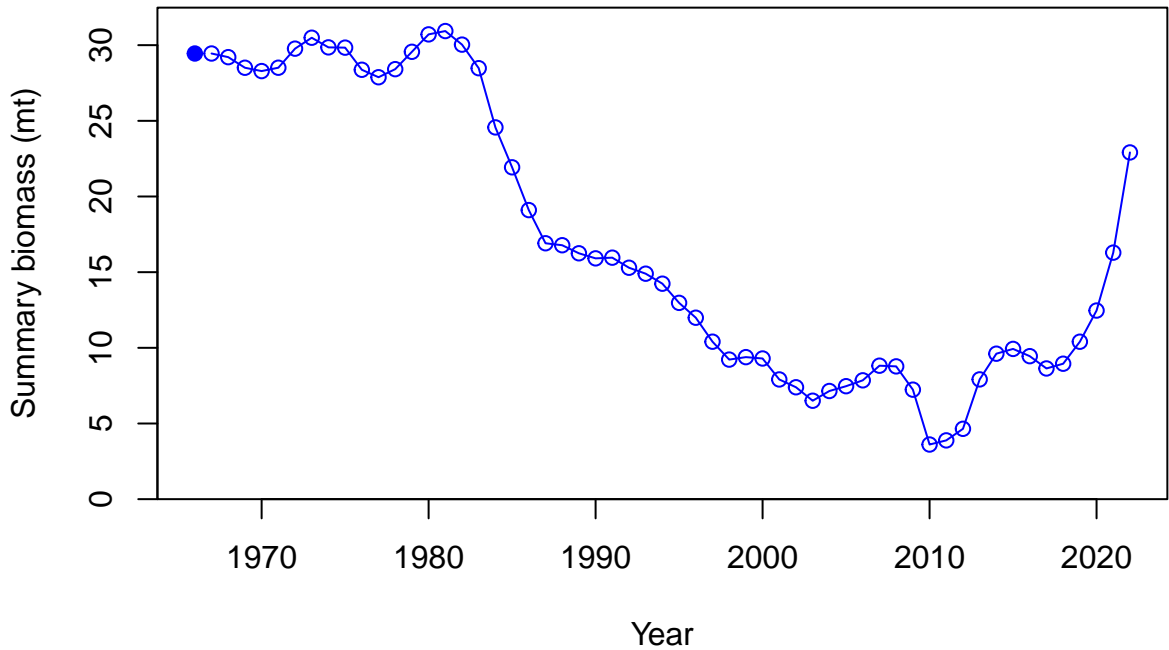
Relative spawning biomass:  $B/B_{MSY}$



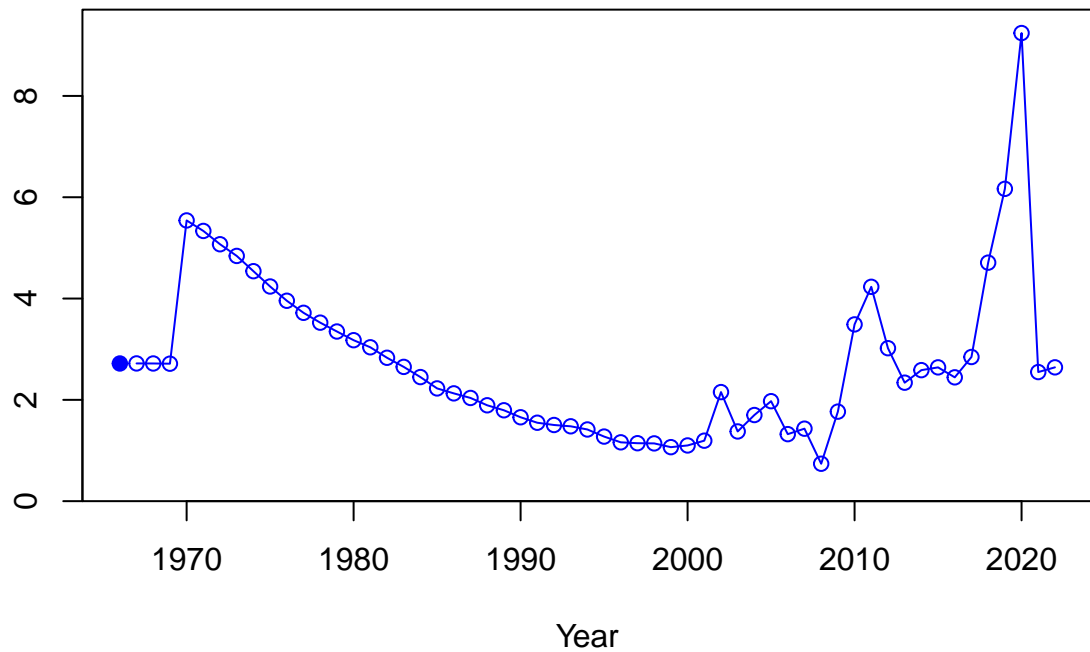
Relative spawning biomass:  $B/B_{MSY}$



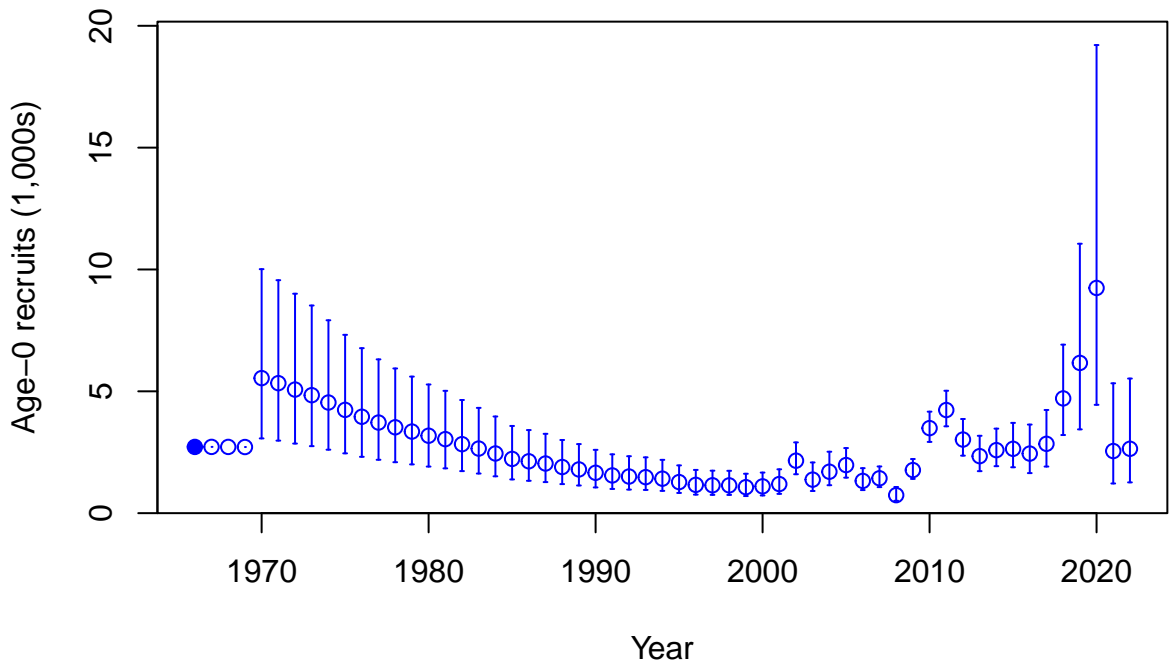




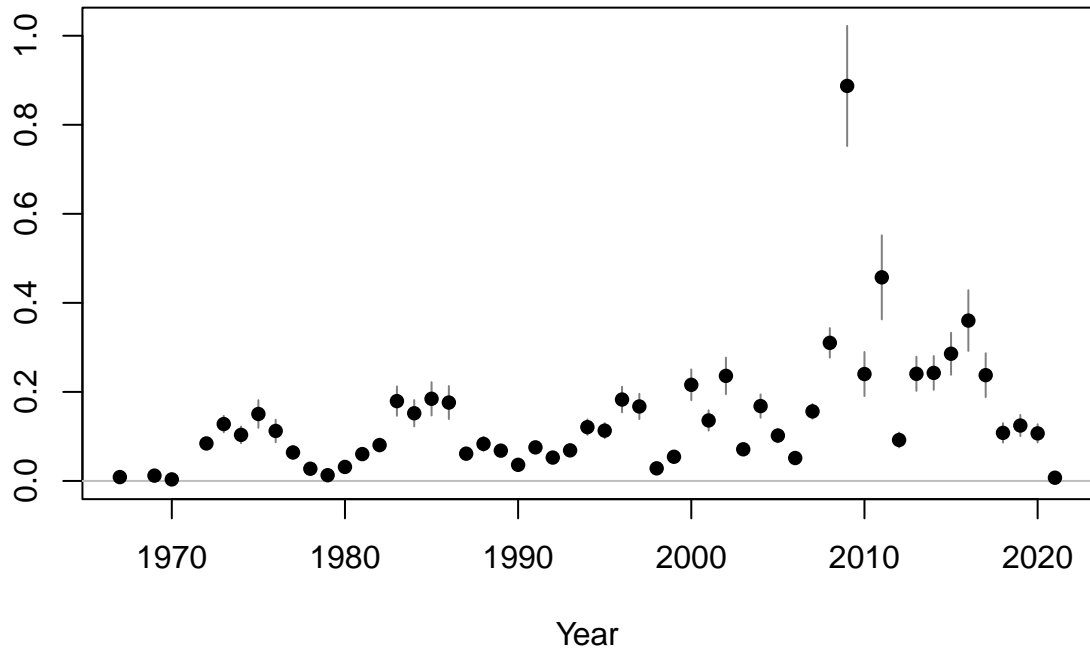
Age-0 recruits (1,000s)

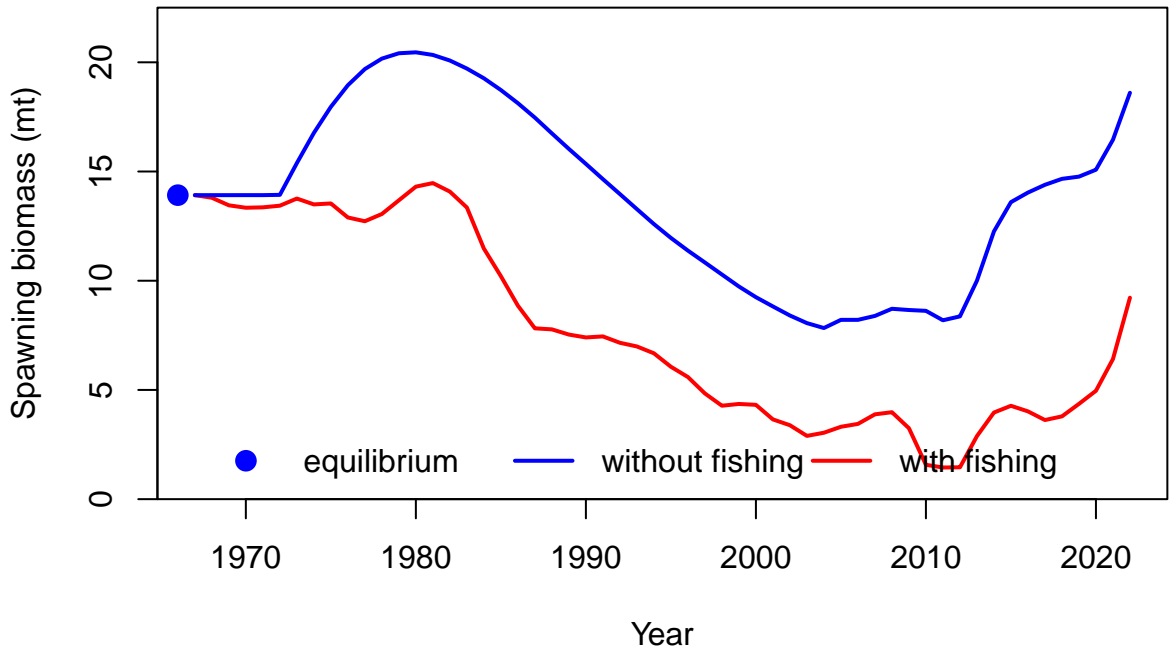




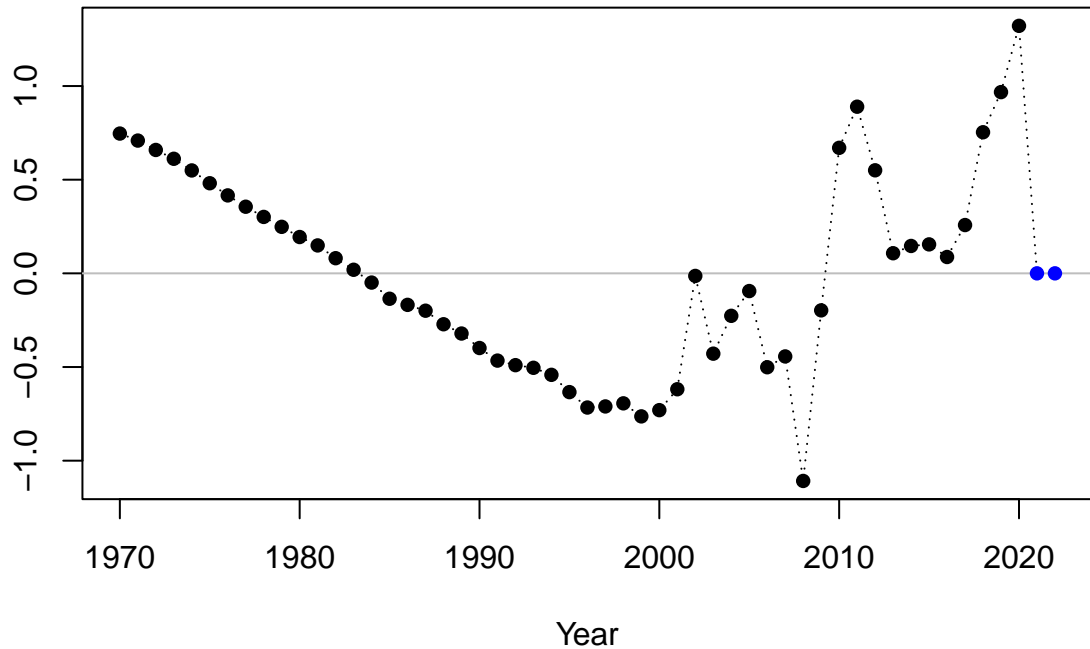


Summary Fishing Mortality

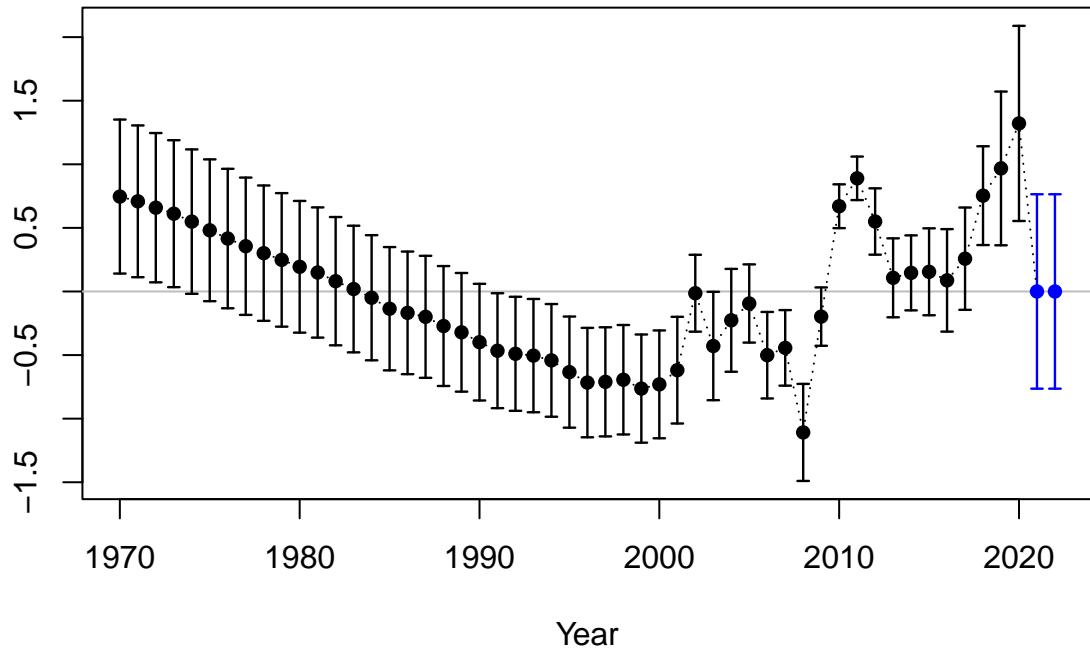




Log recruitment deviation

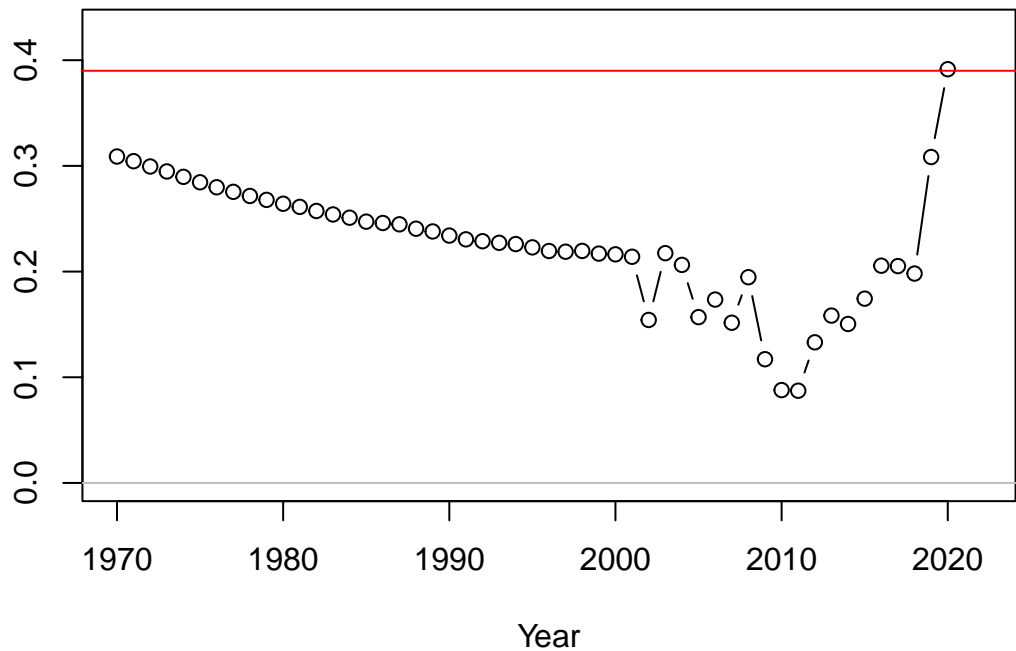


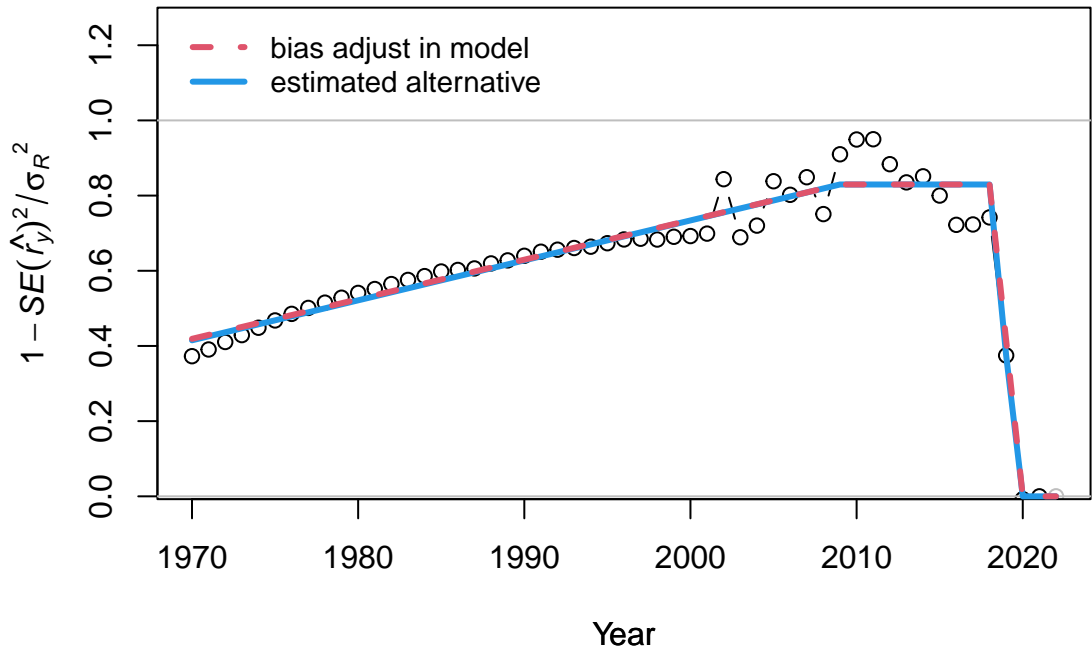
Log recruitment deviation



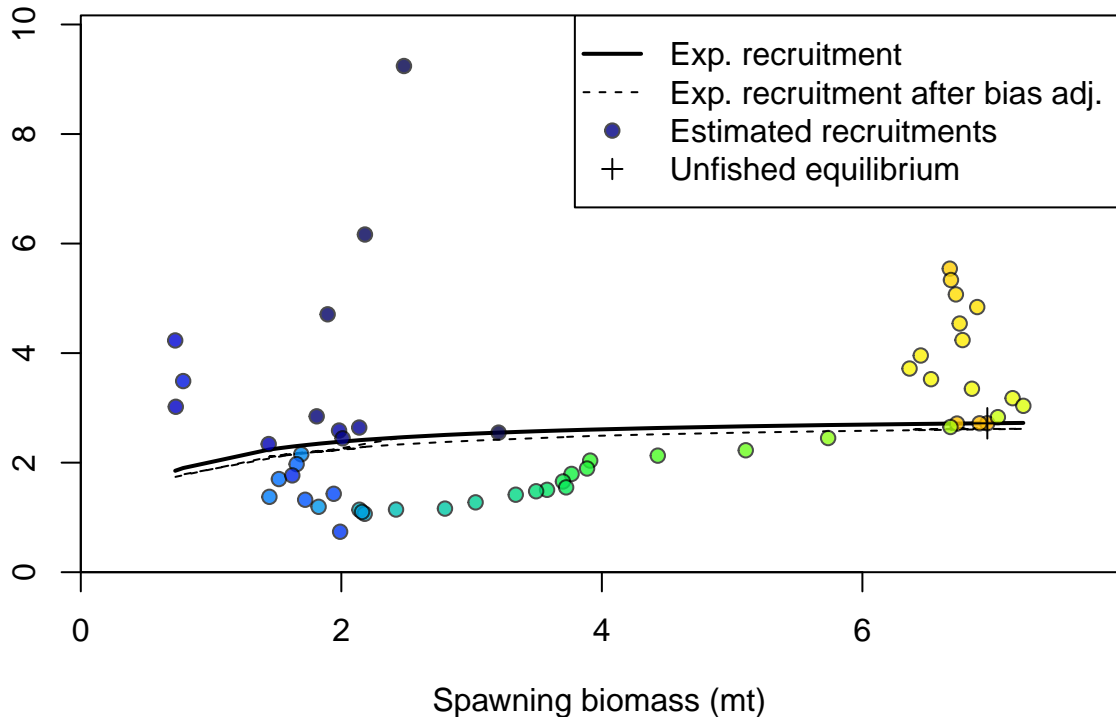
## Recruitment deviation variance

Asymptotic standard error estimate



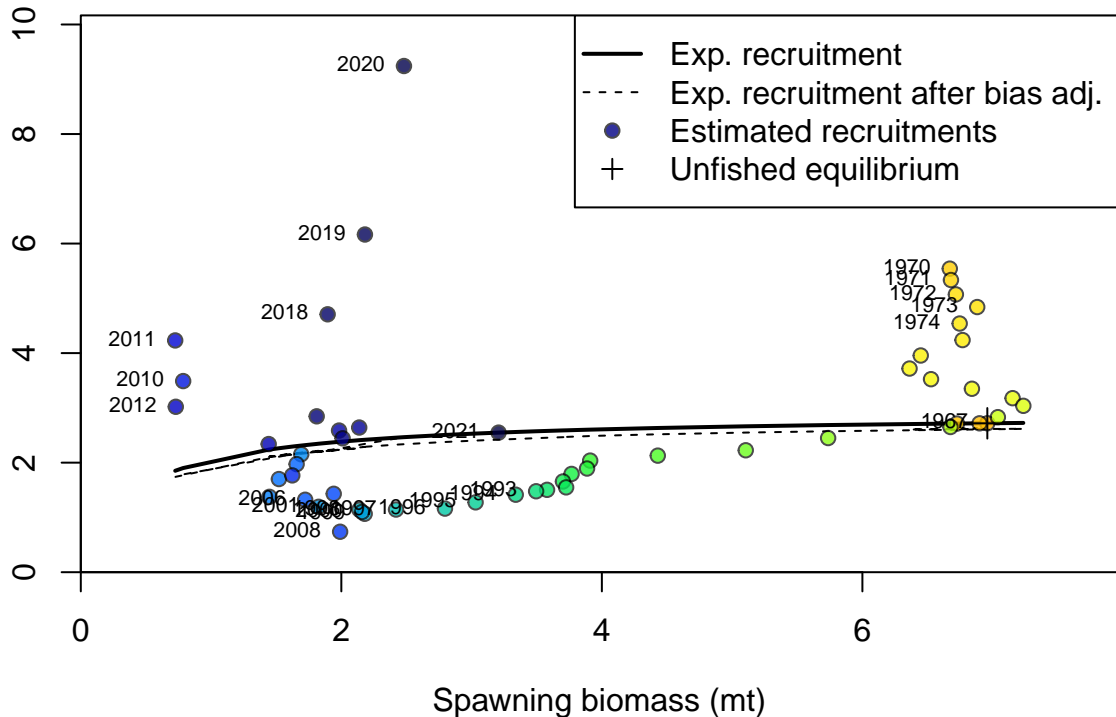


Recruitment (1,000s)

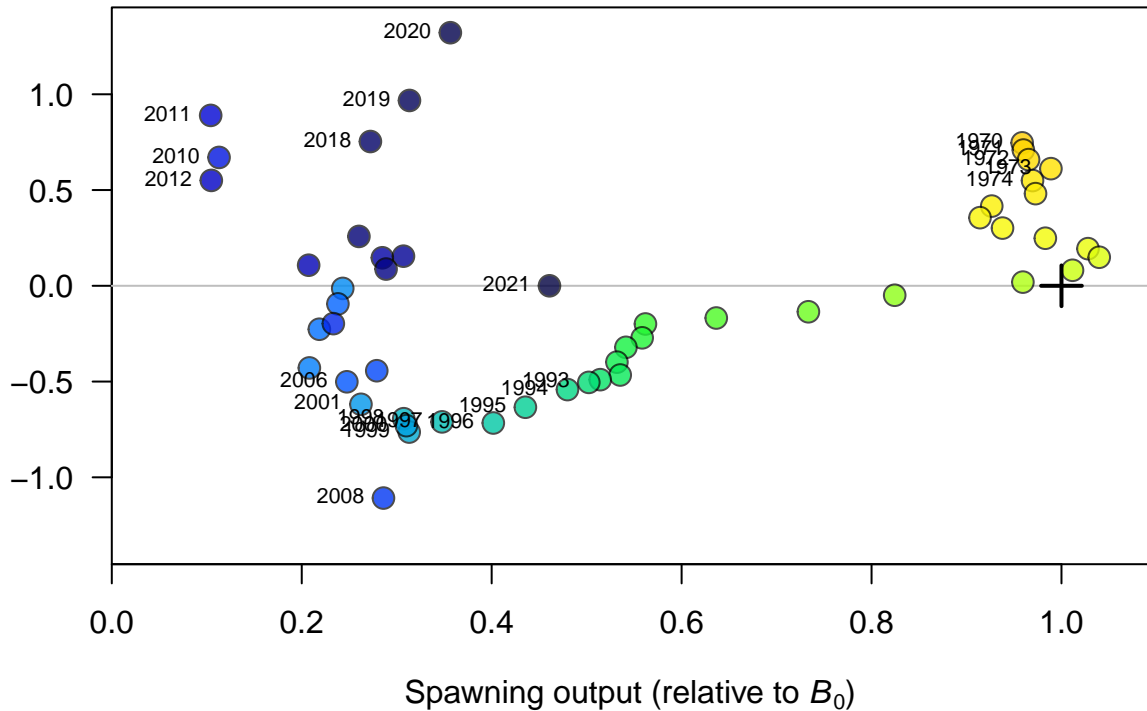


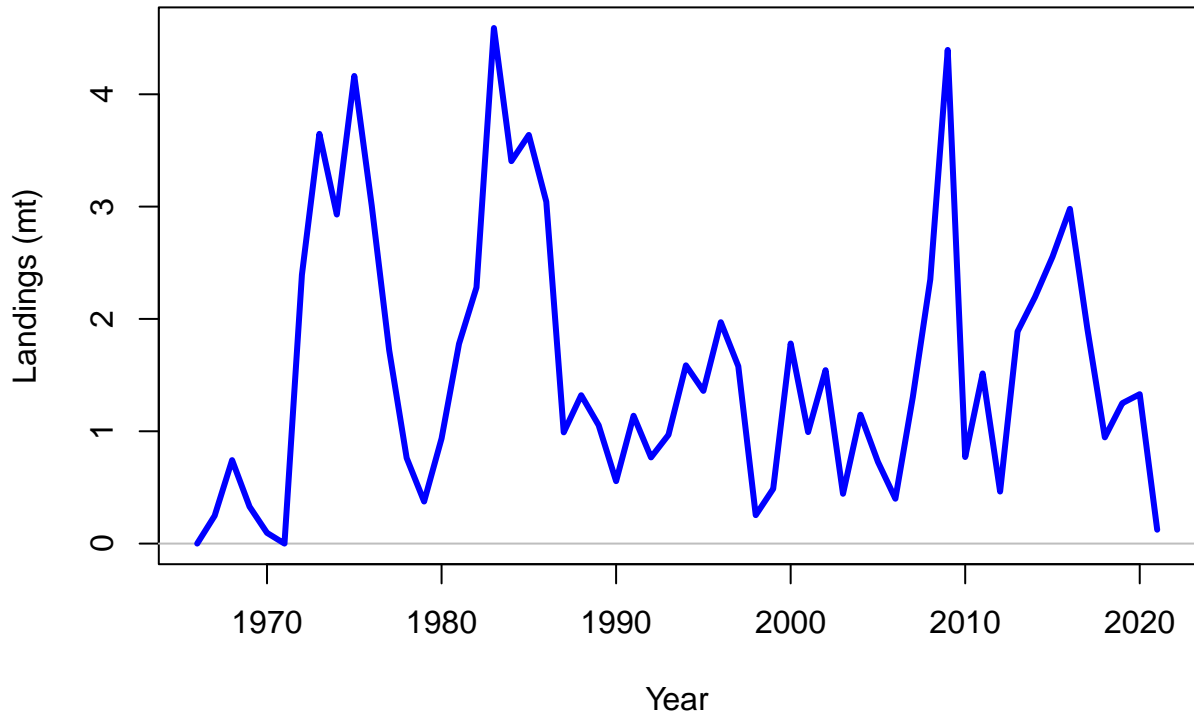


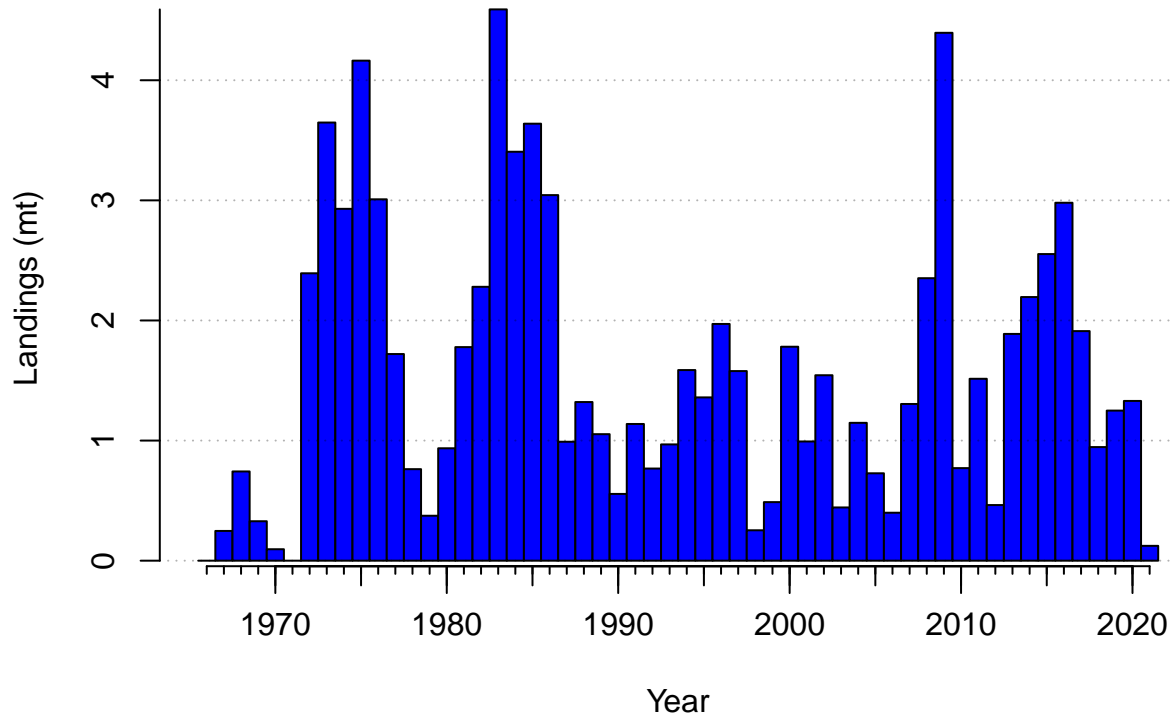
Recruitment (1,000s)

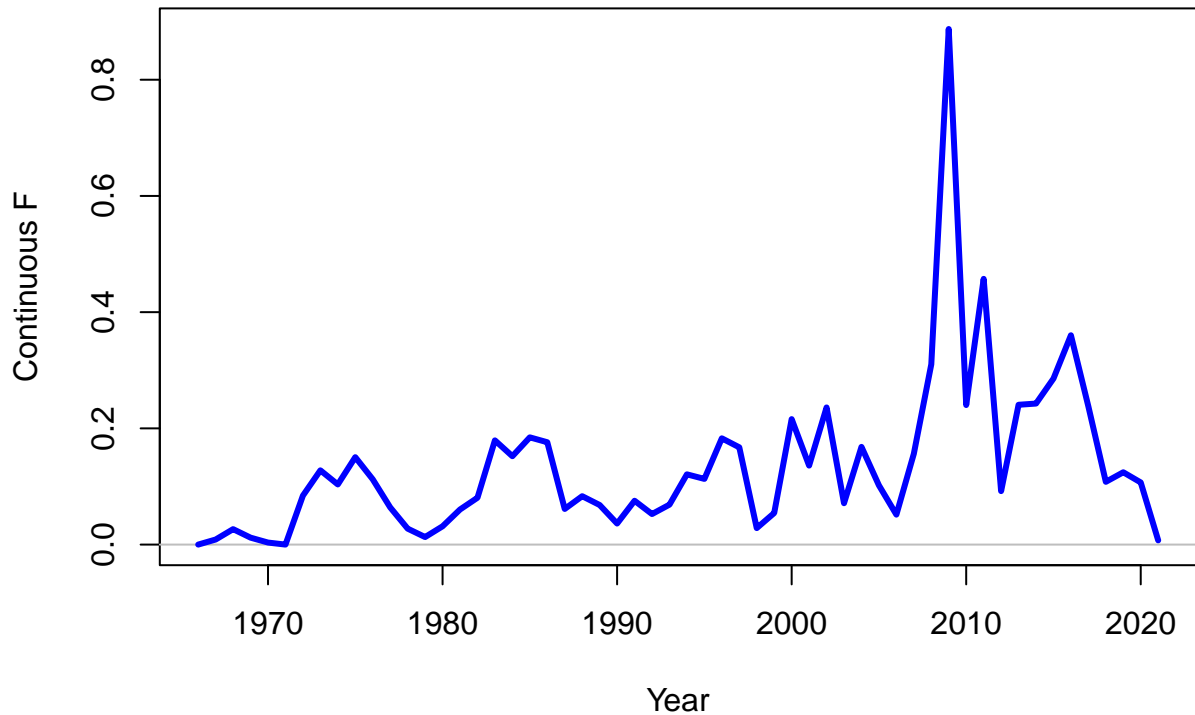


Log recruitment deviation

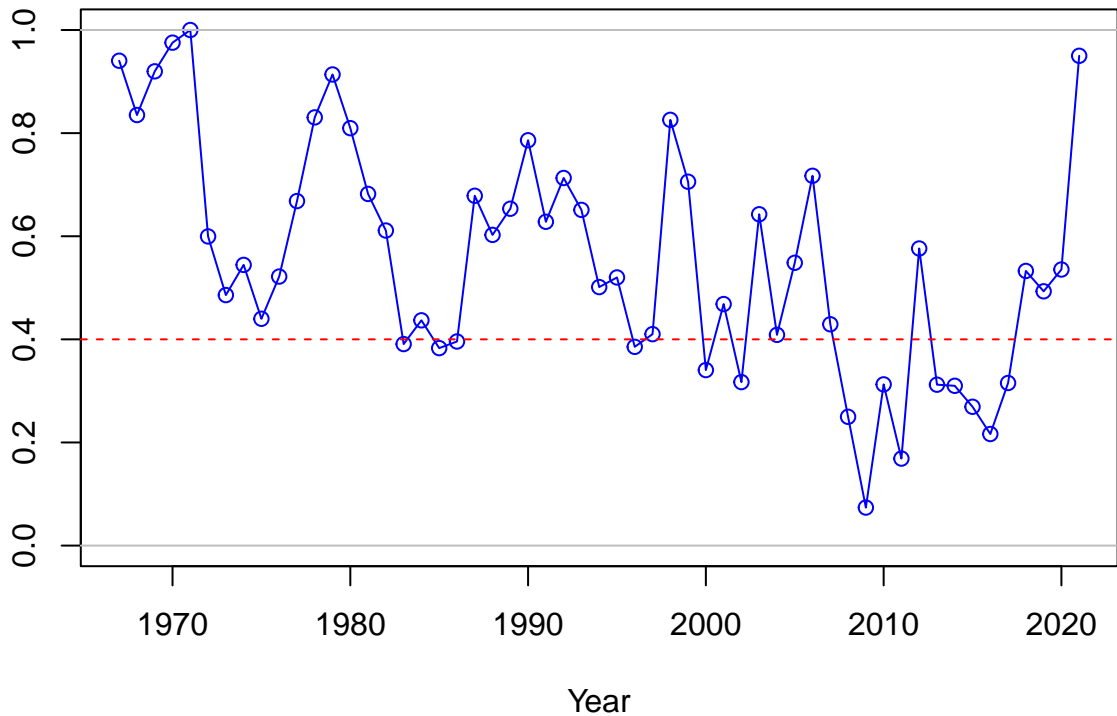




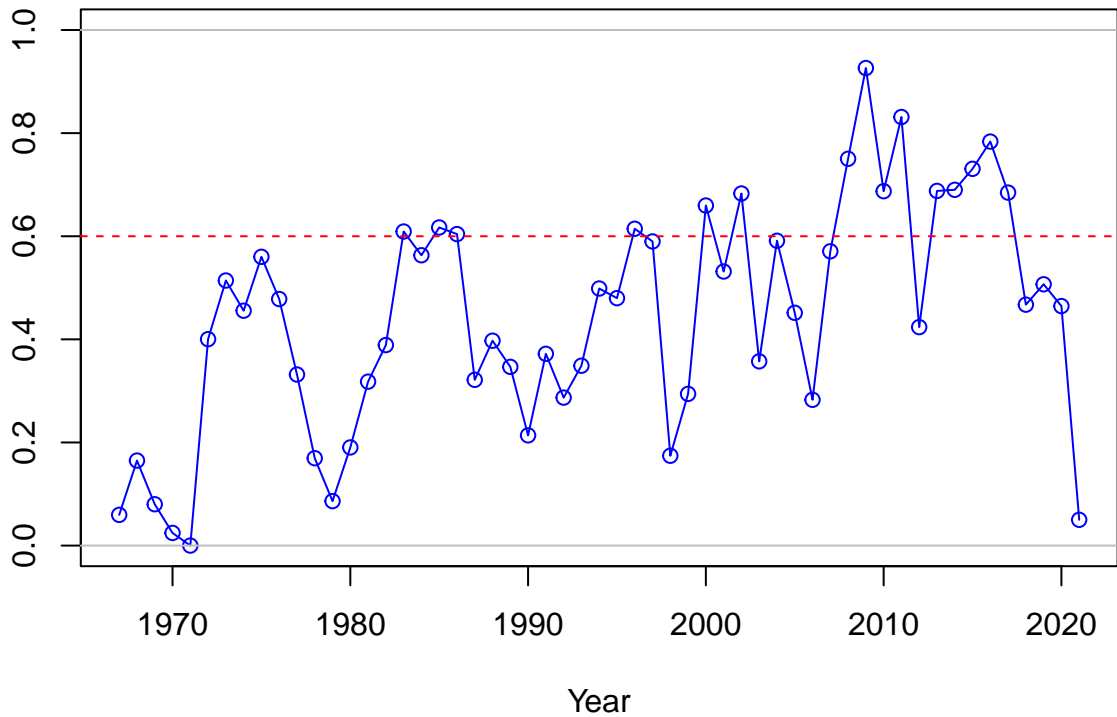




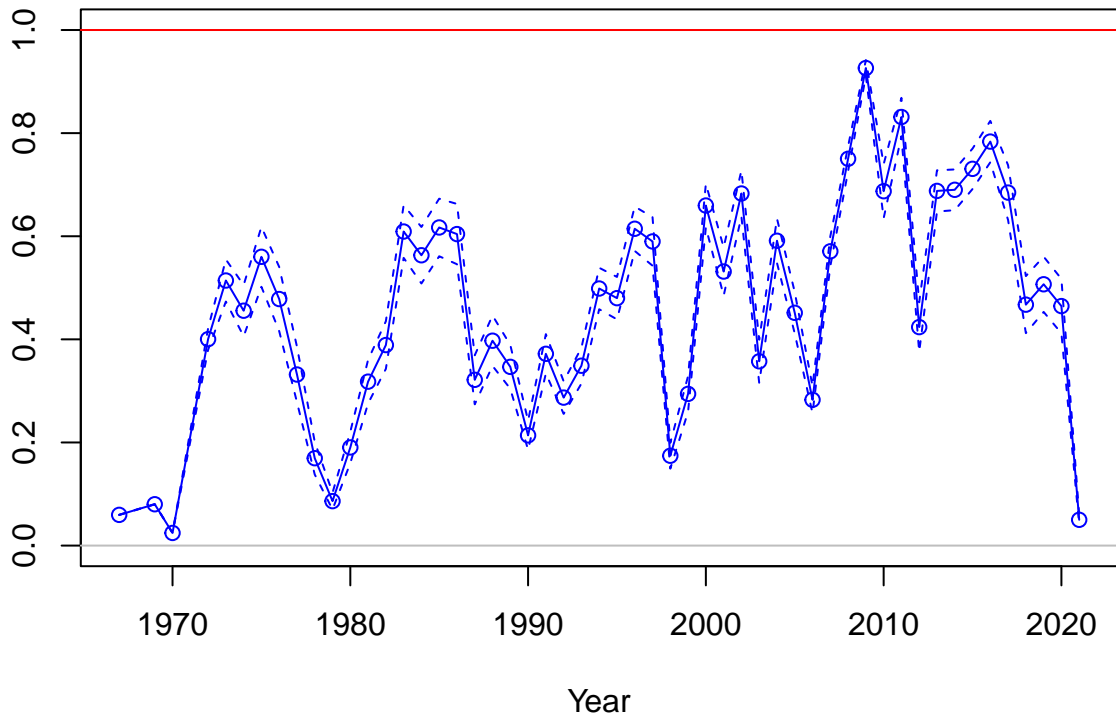
SPR



1-SPR

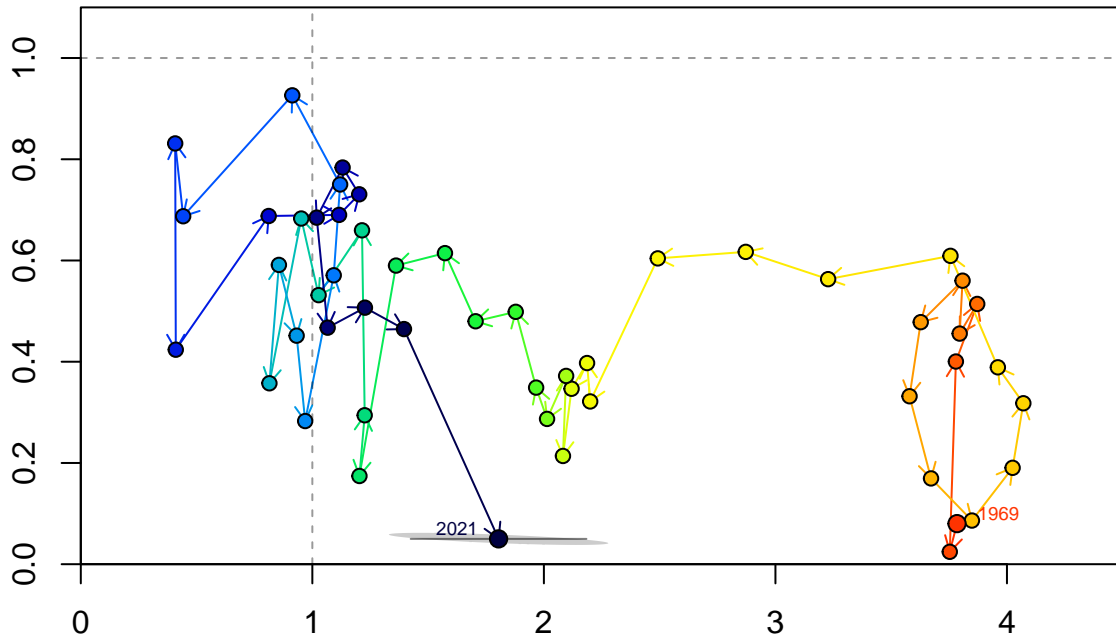


Fishing intensity: 1-SPR



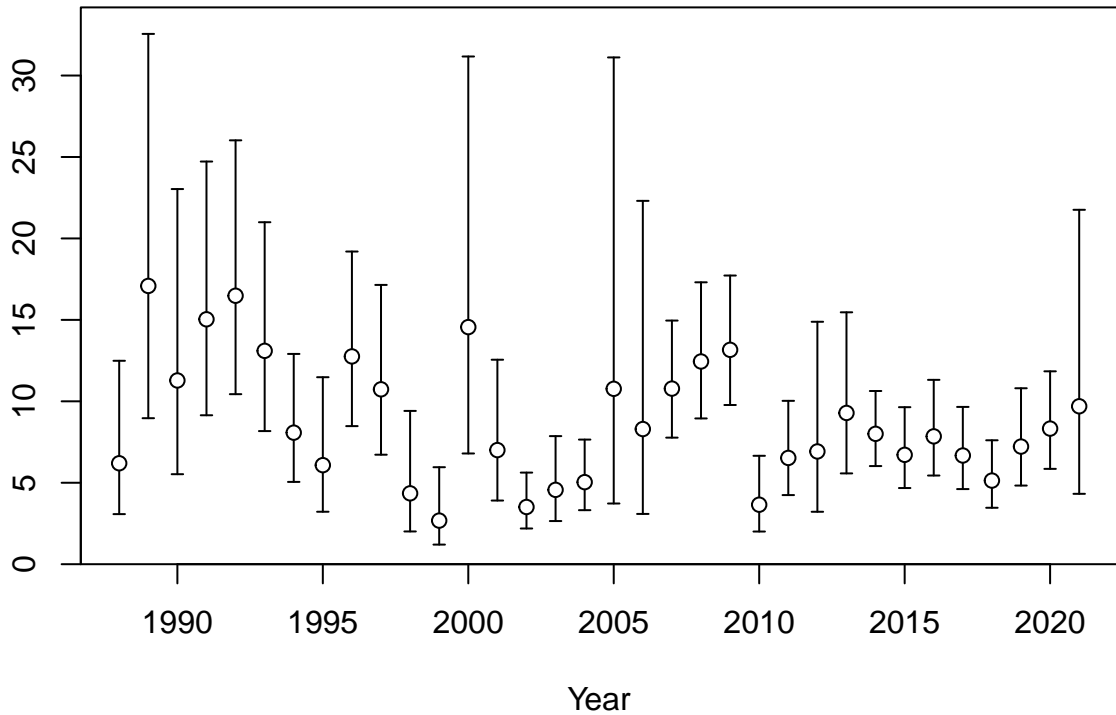


Fishing intensity: 1-SPR

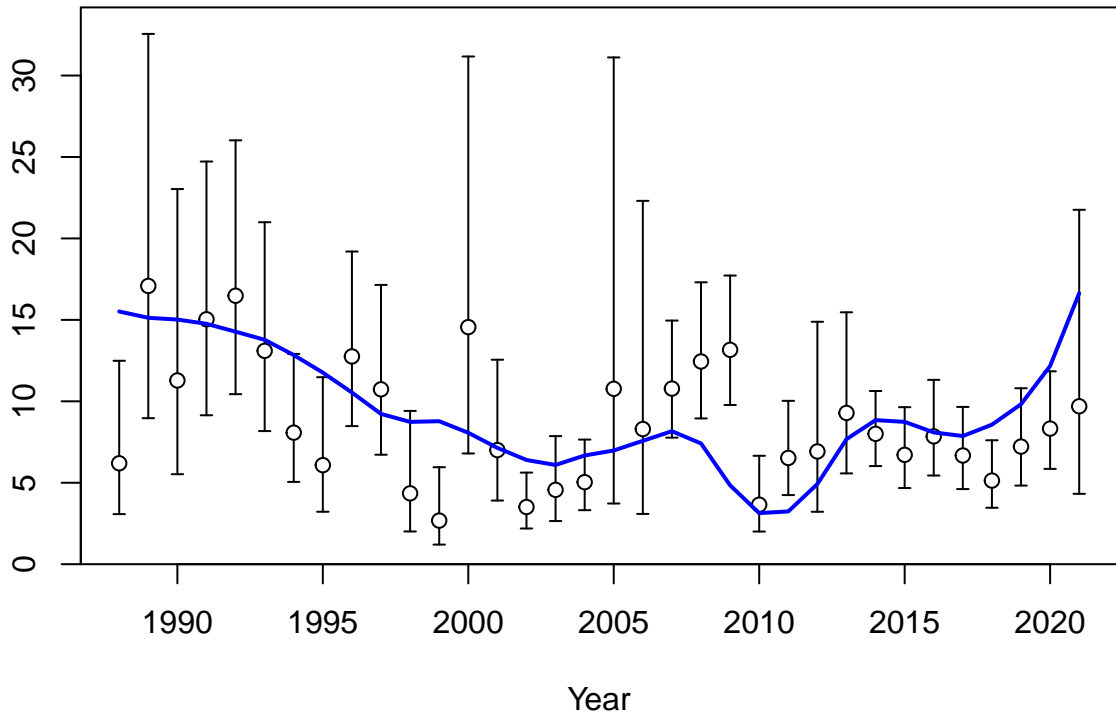


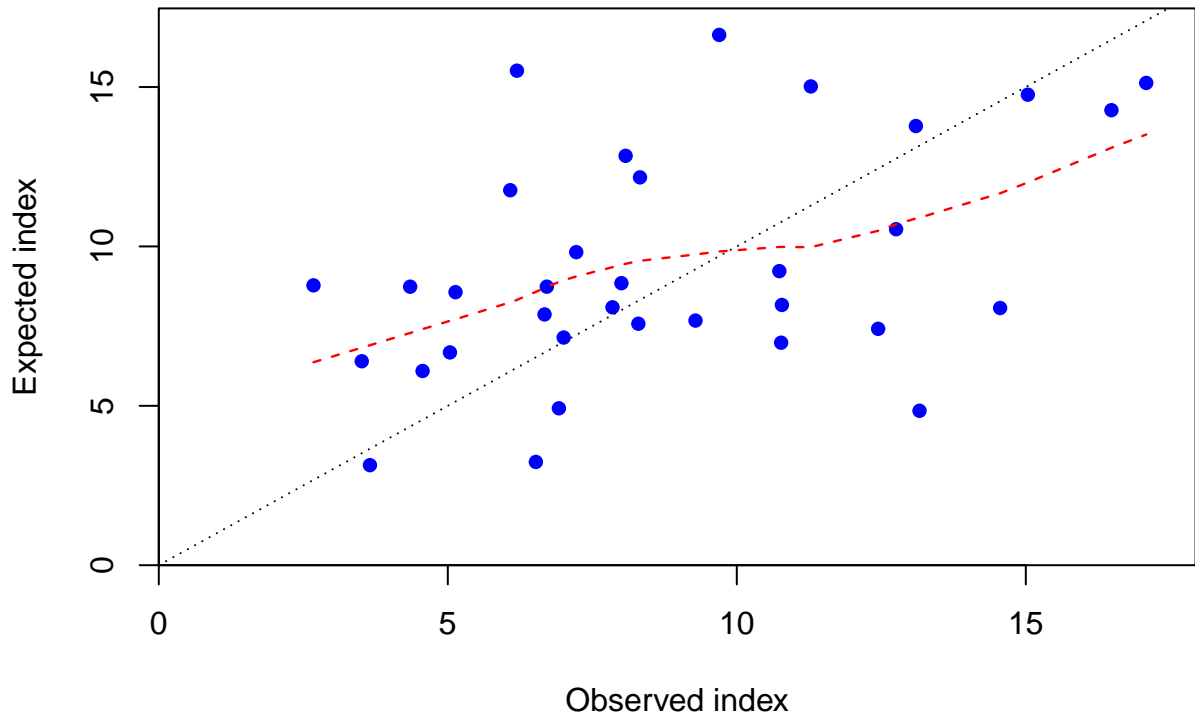
Relative spawning output:  $B/B_{MSY}$

Index

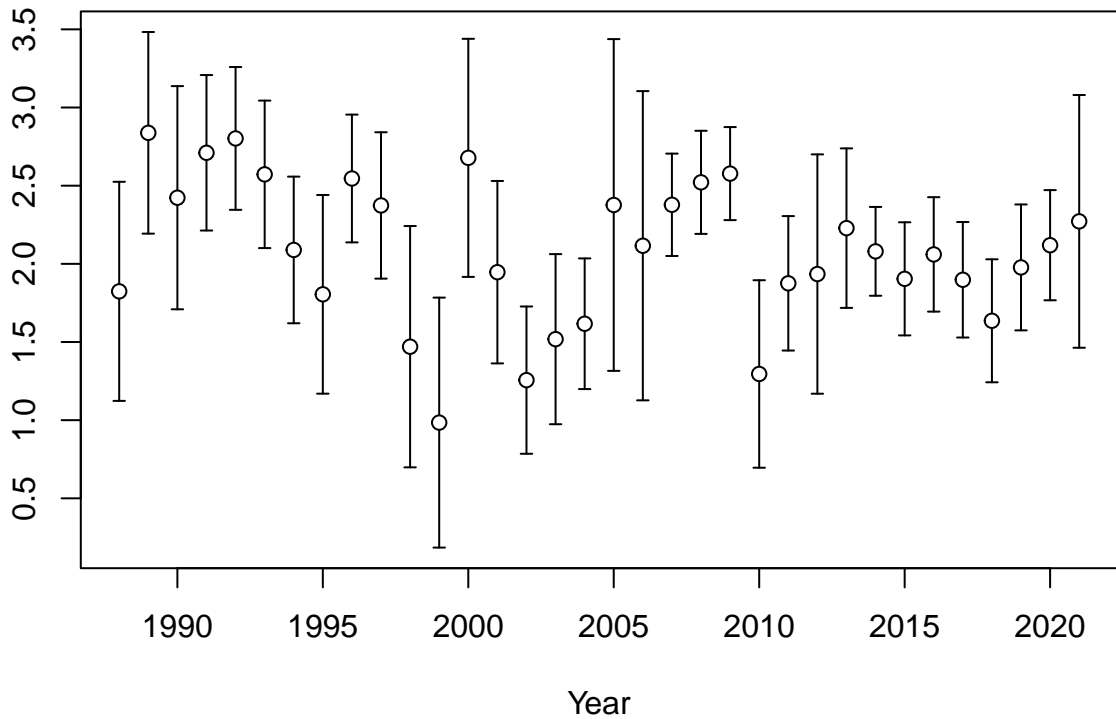


Index

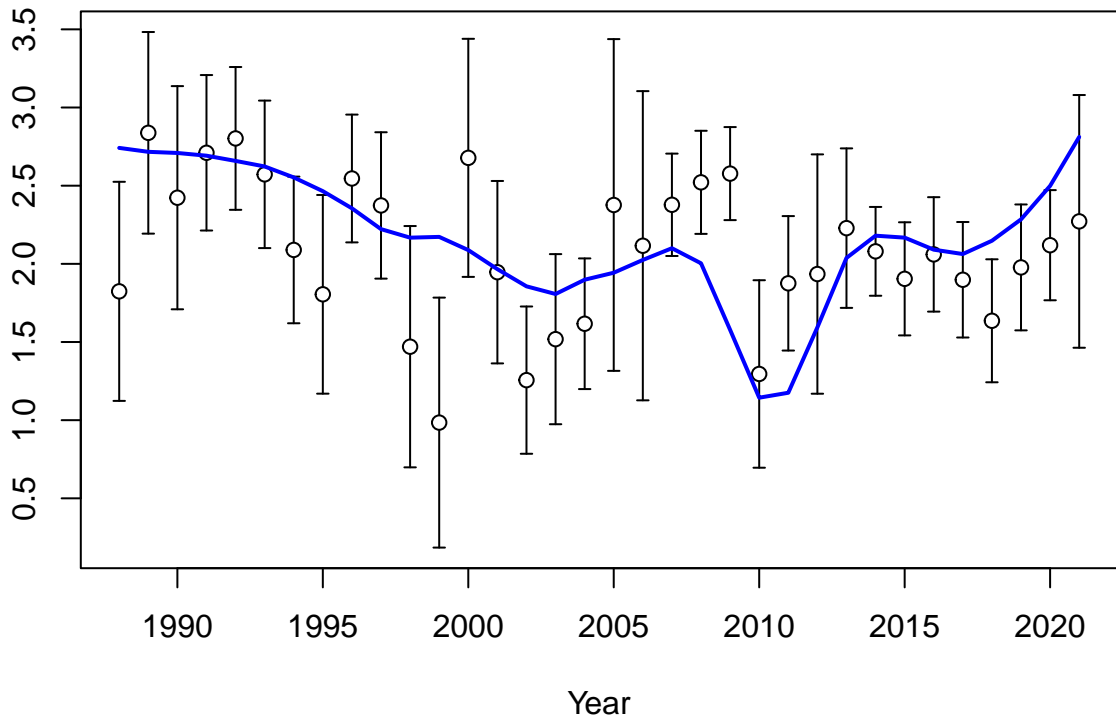


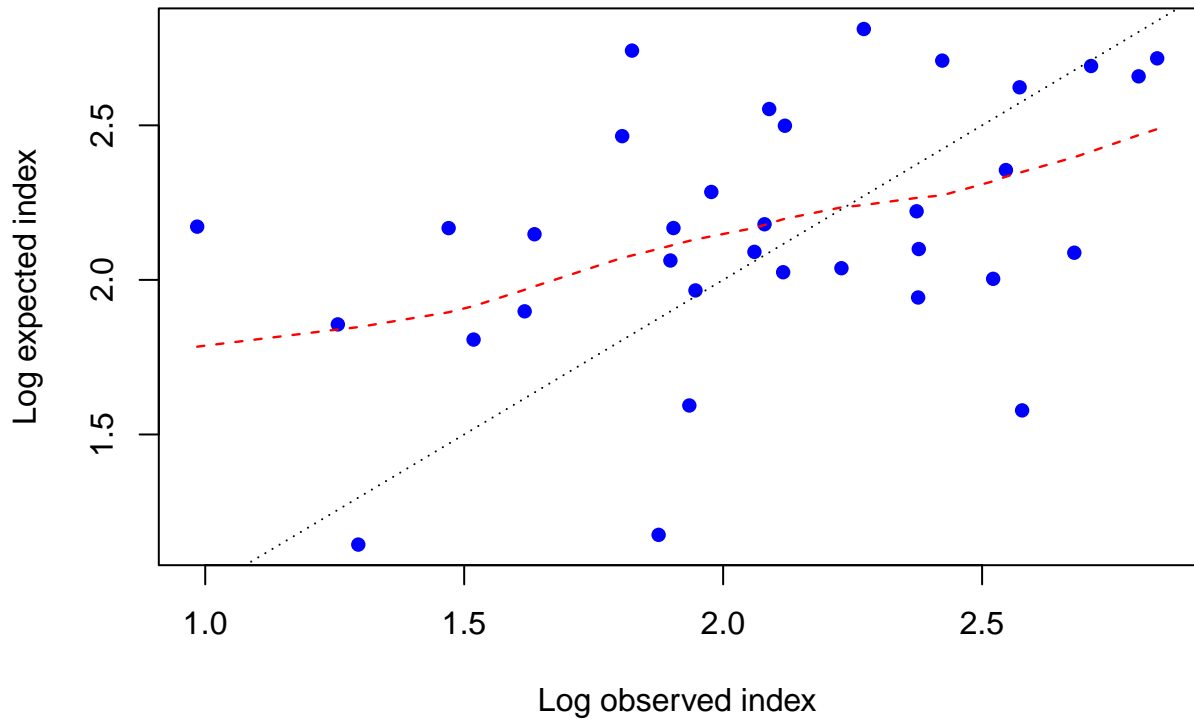


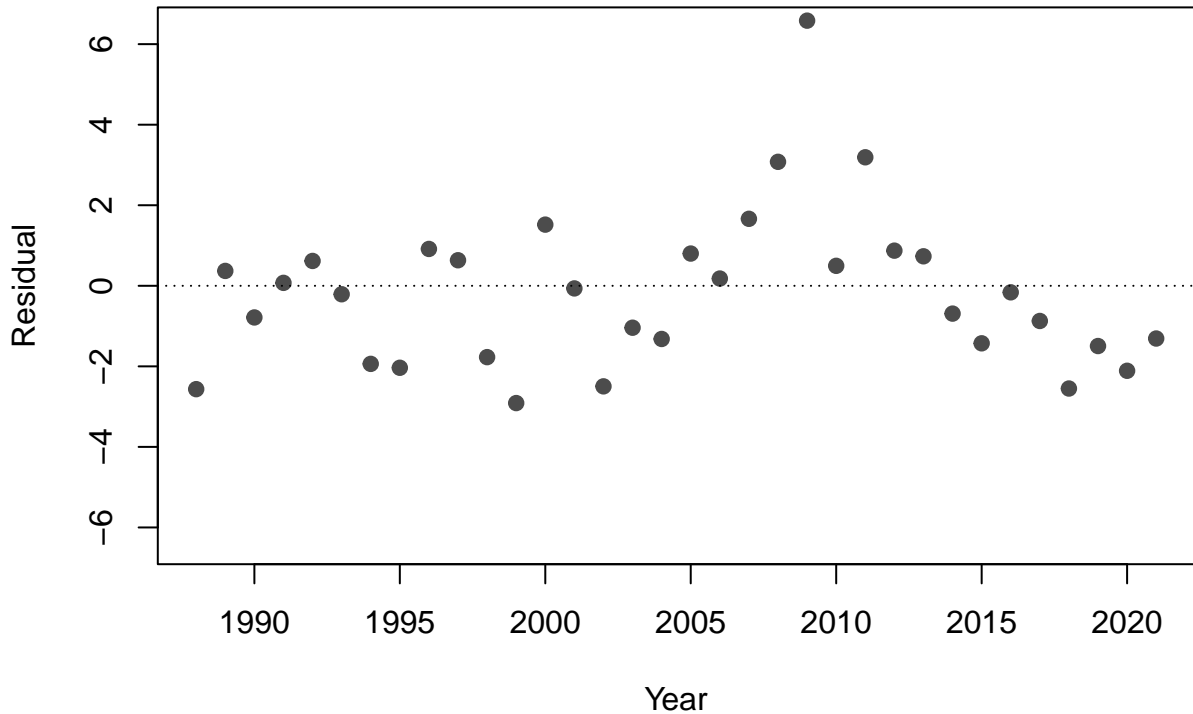
Log index



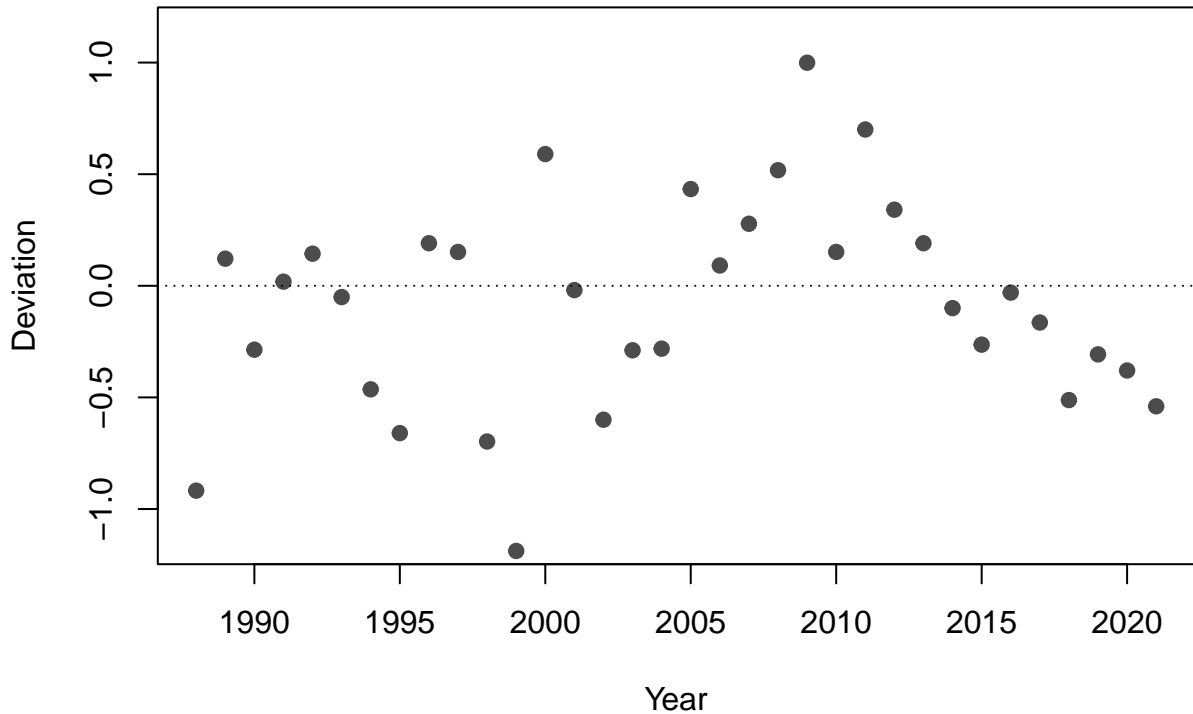
Log index



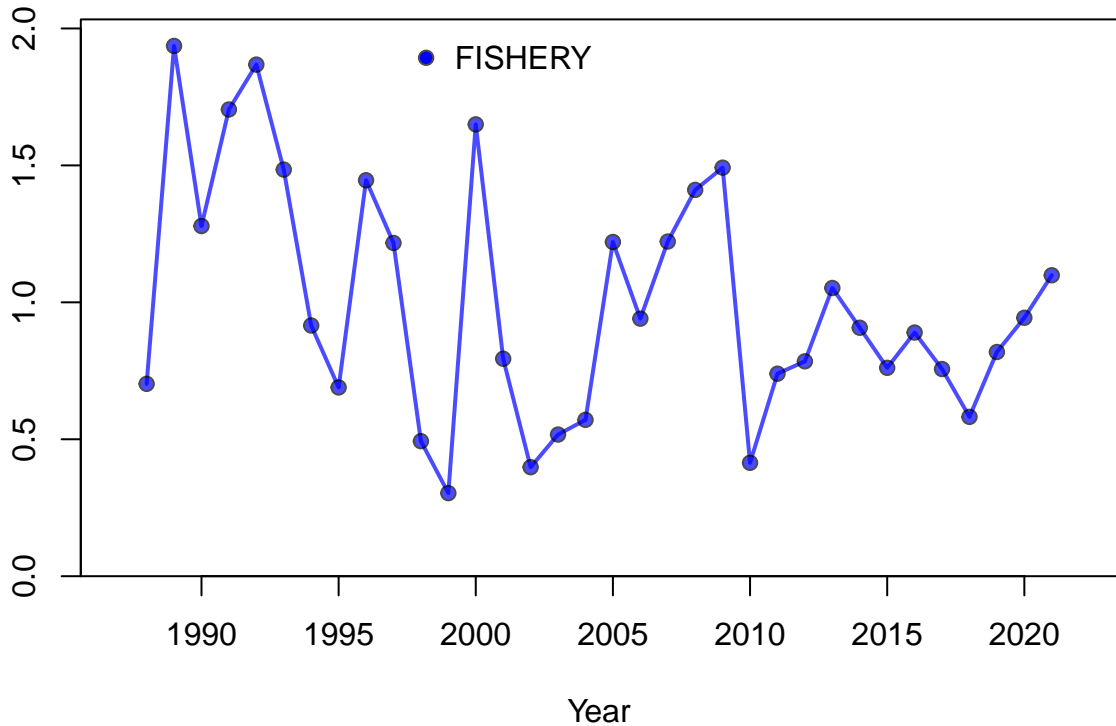








Standardized index



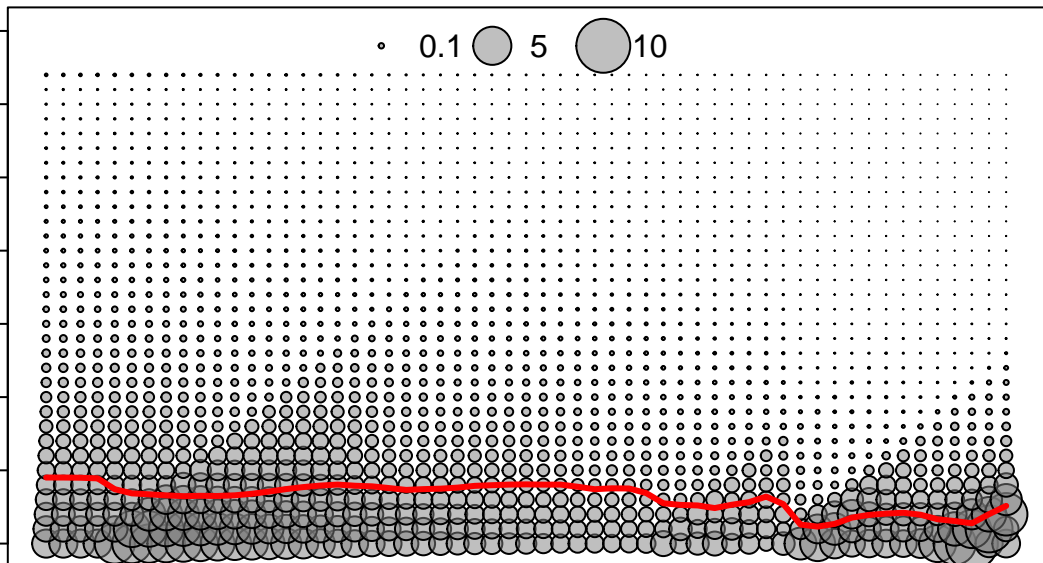
Age

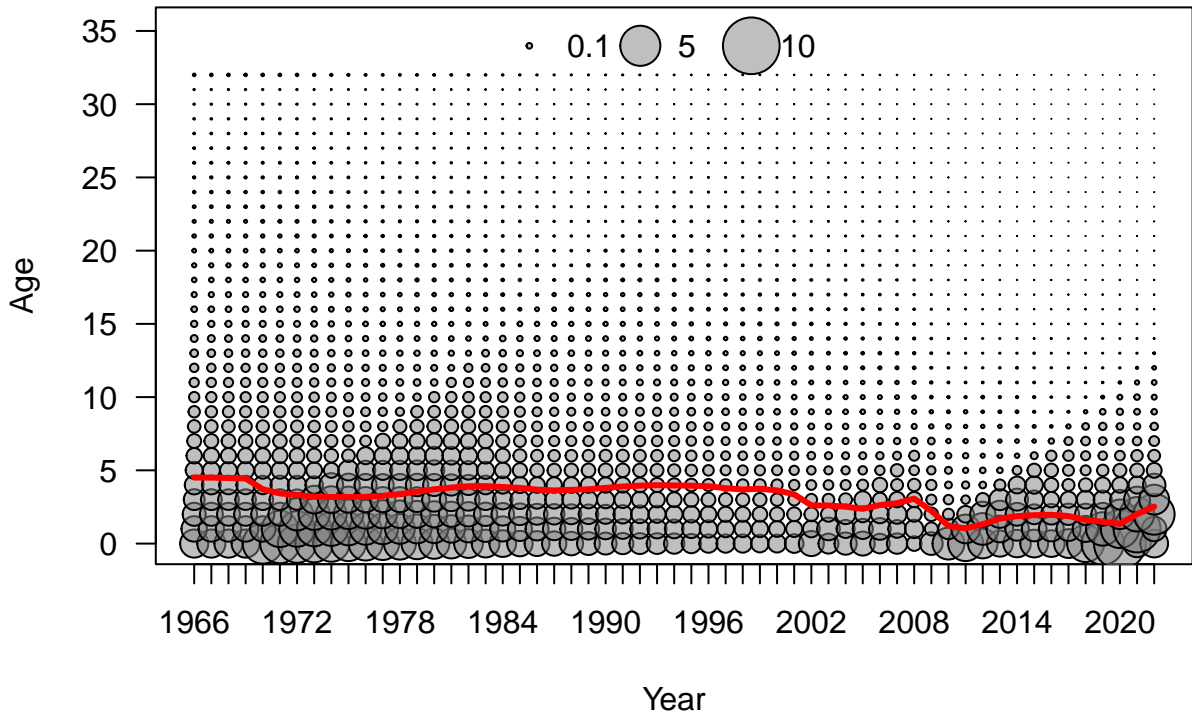
35  
30  
25  
20  
15  
10  
5  
0

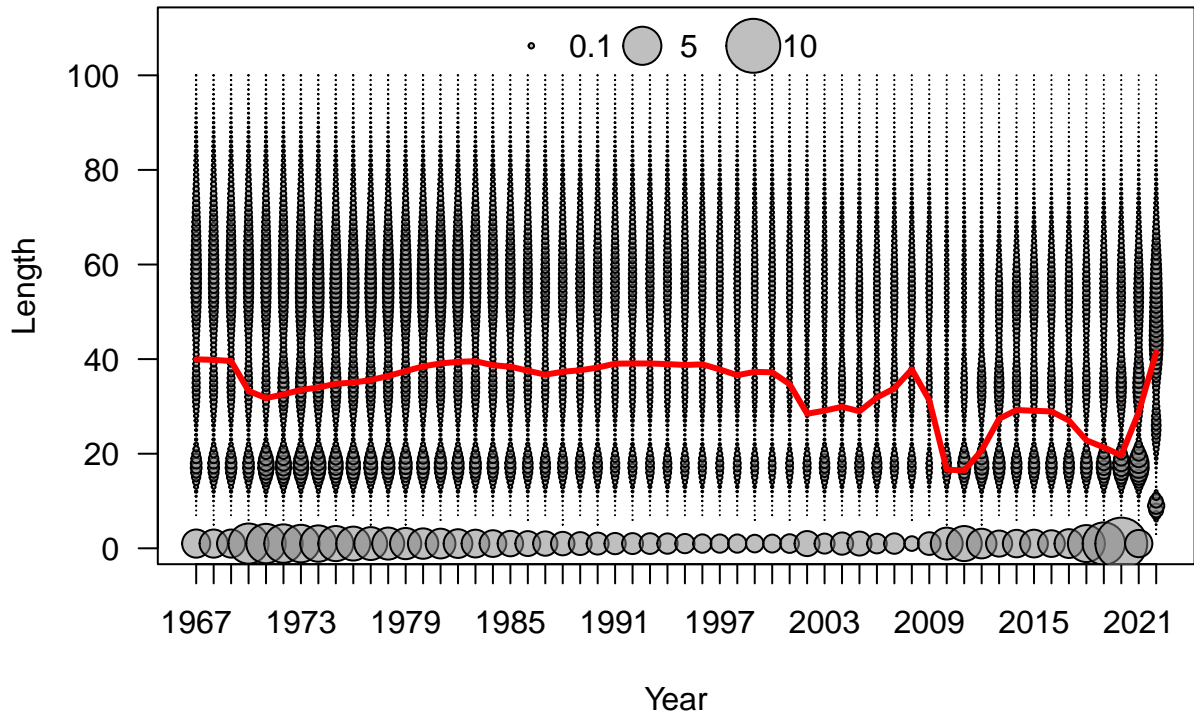
• 0.1 5 10

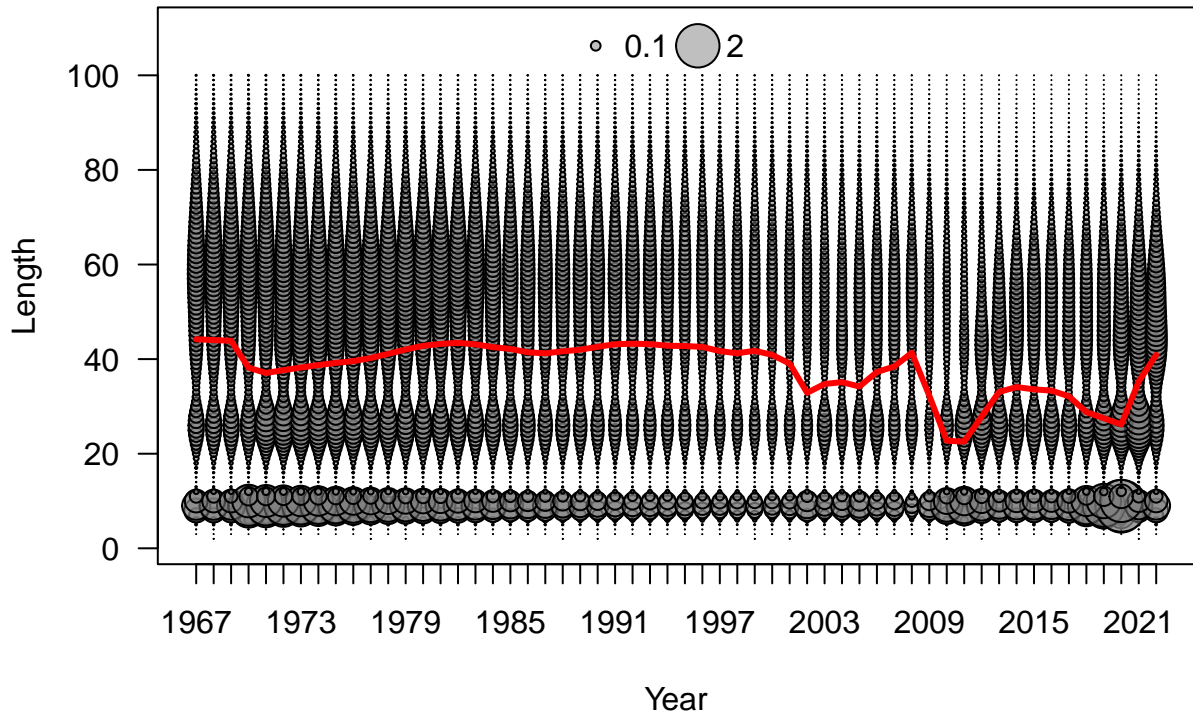
1966 1972 1978 1984 1990 1996 2002 2008 2014 2020

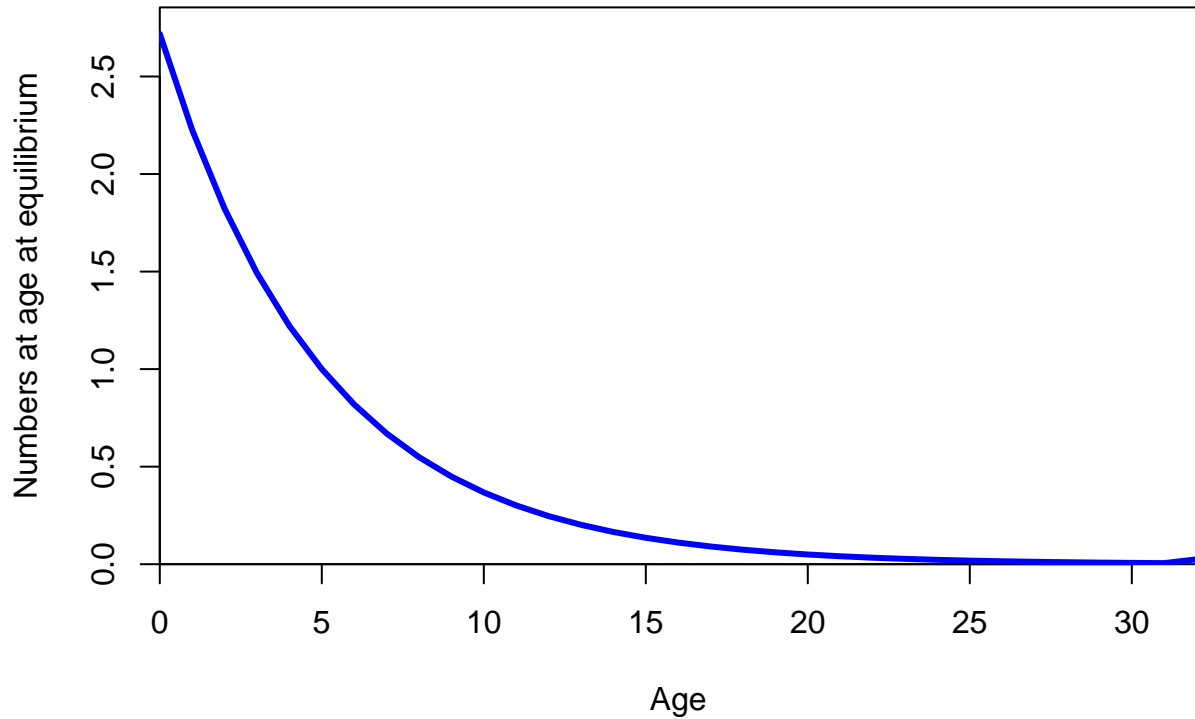
Year

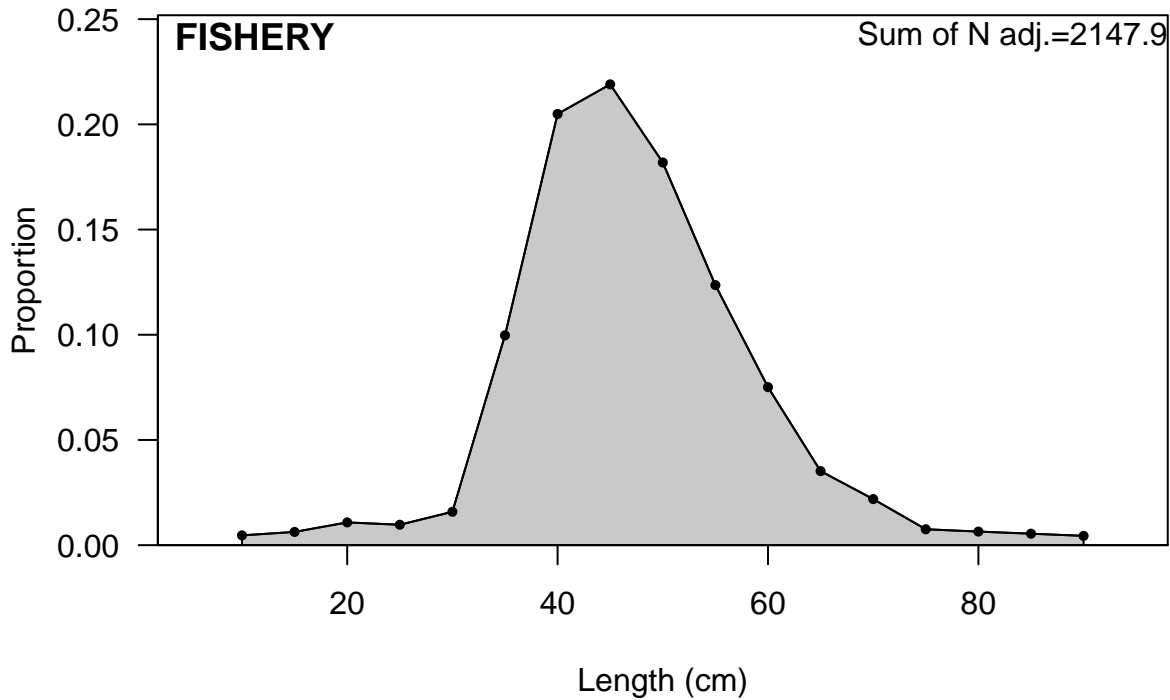








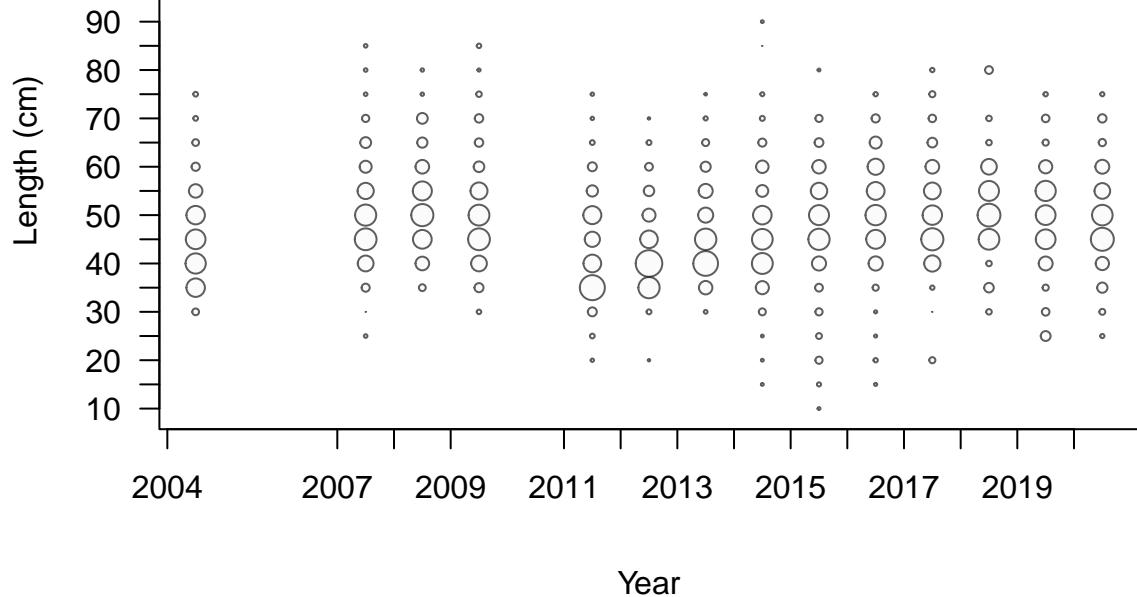




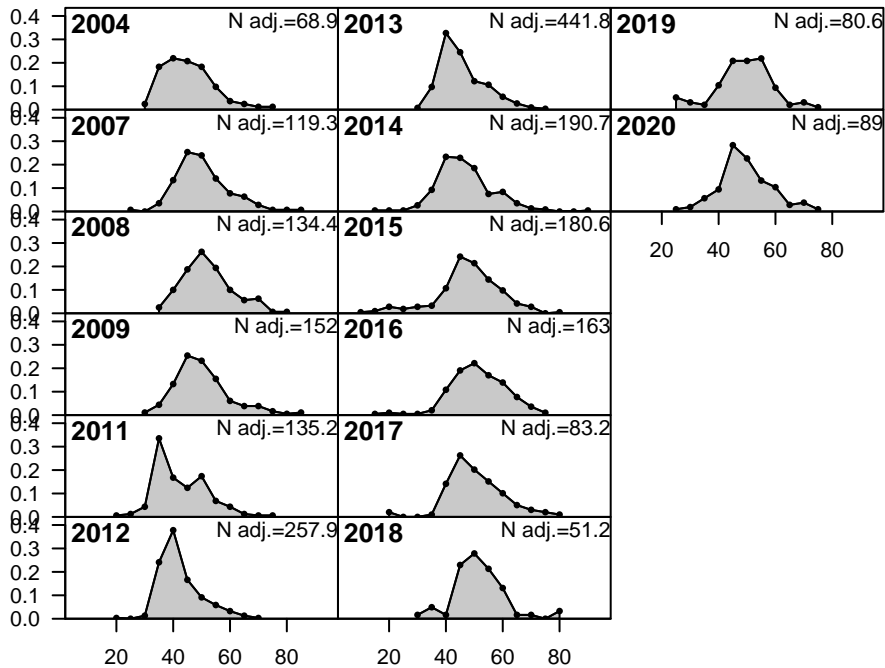


# FISHERY

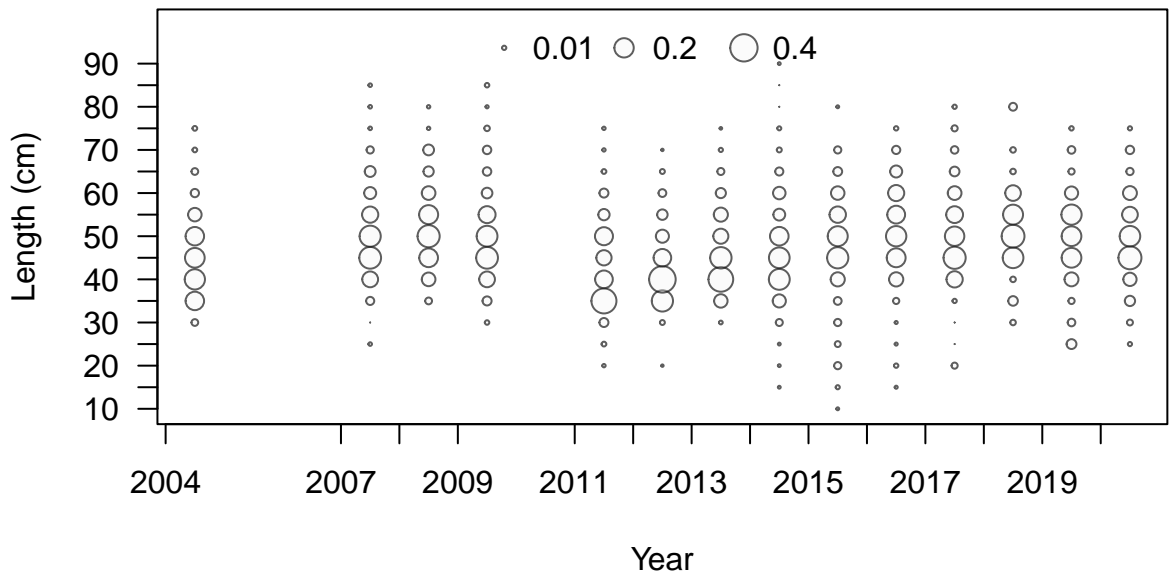
• 0.01 ○ 0.2 ○ 0.4



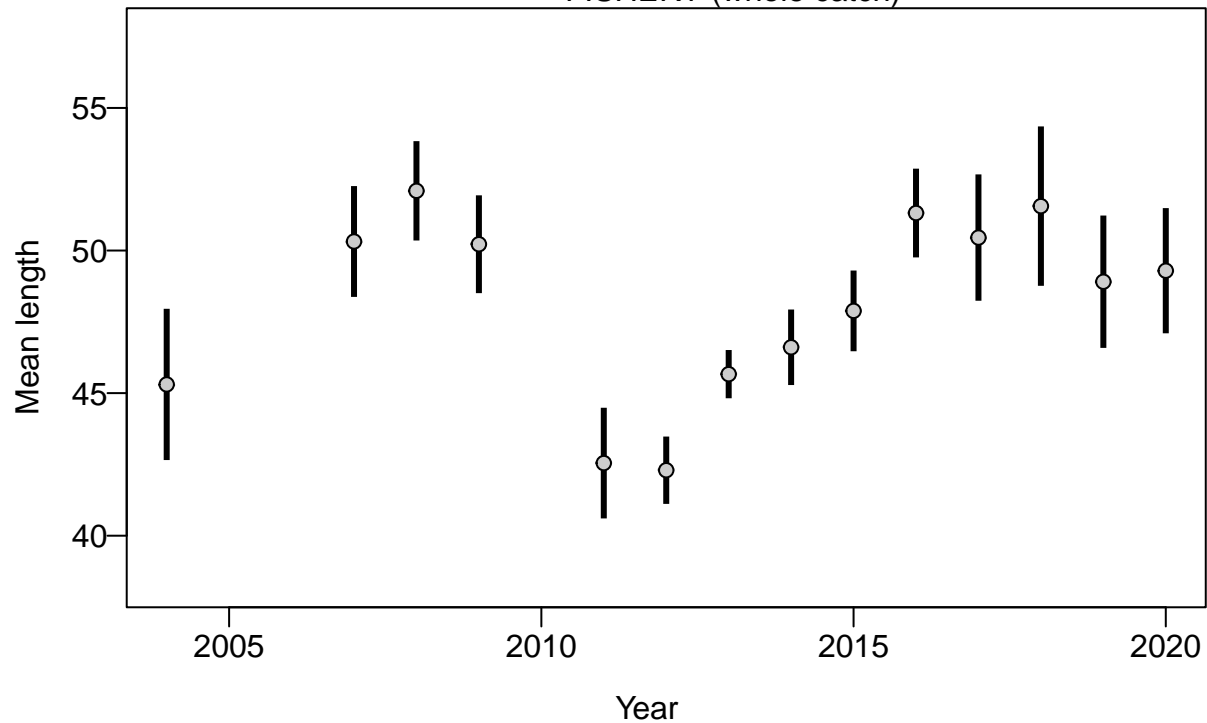
Proportion

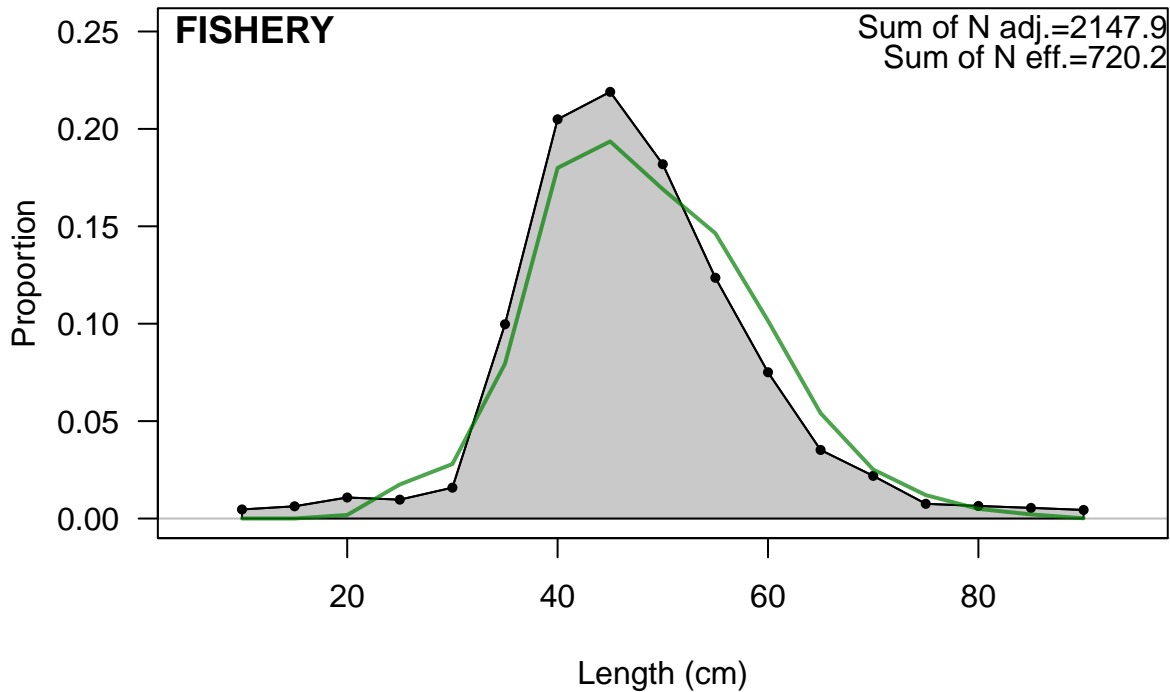


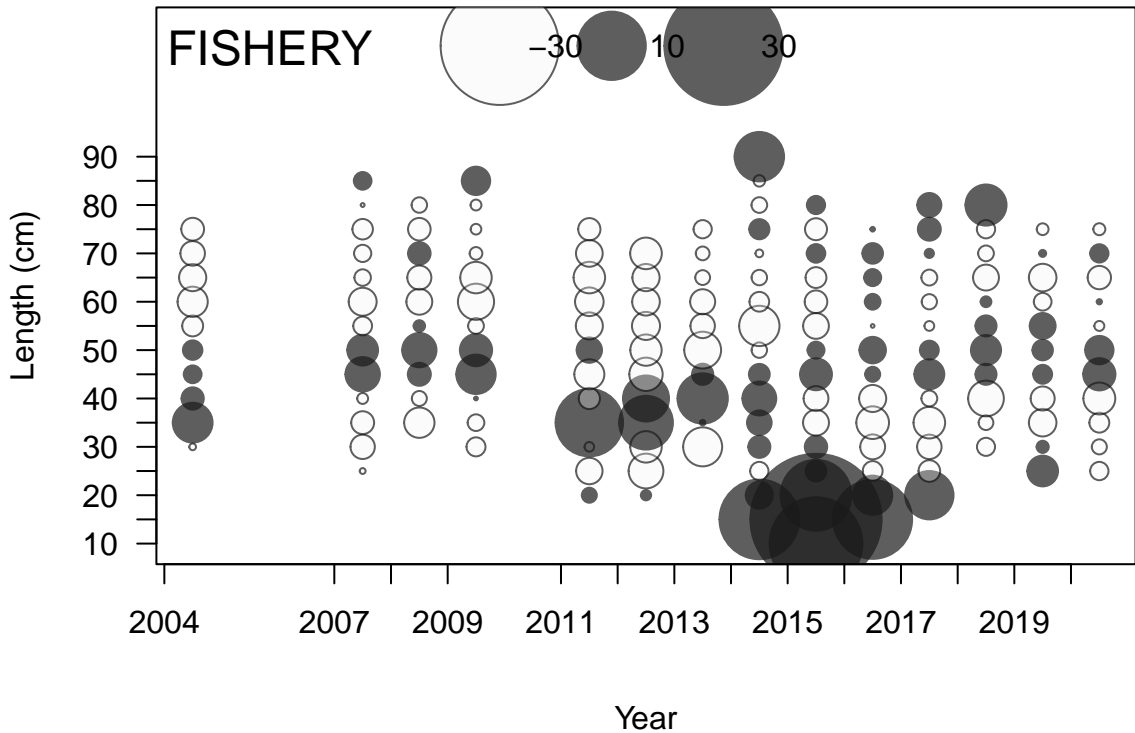
Length (cm)



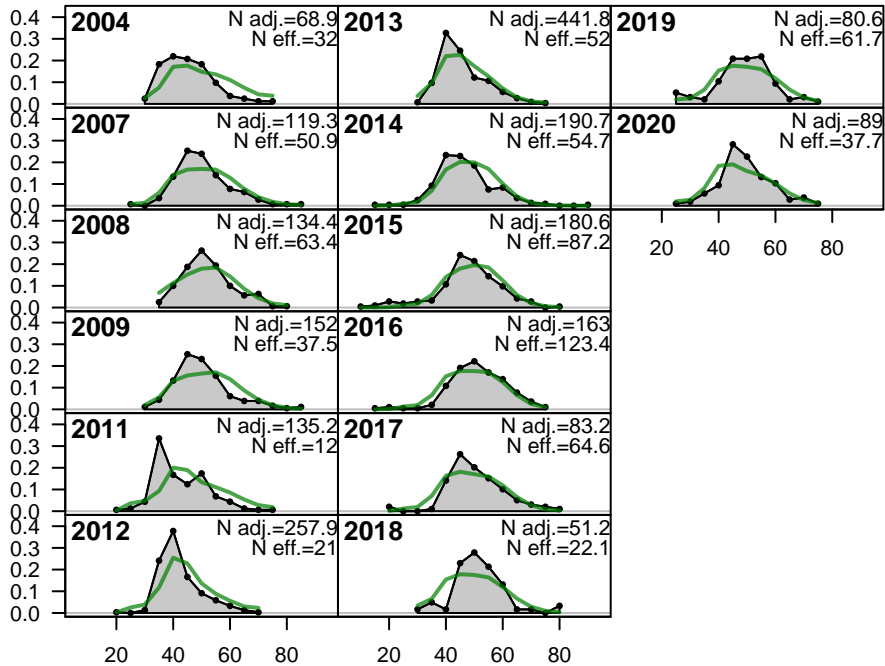
FISHERY (whole catch)



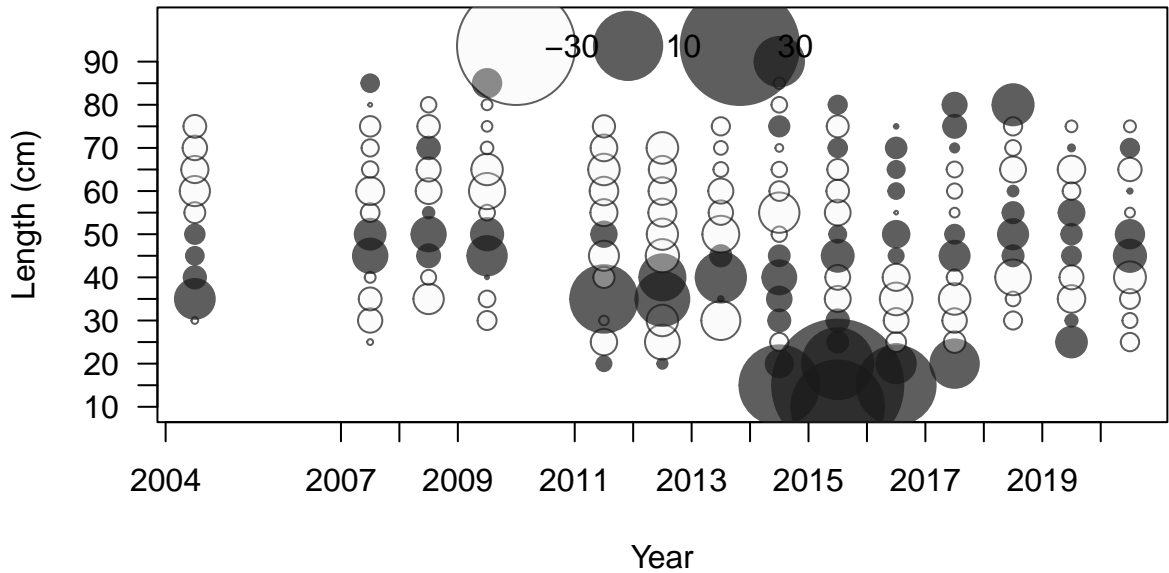




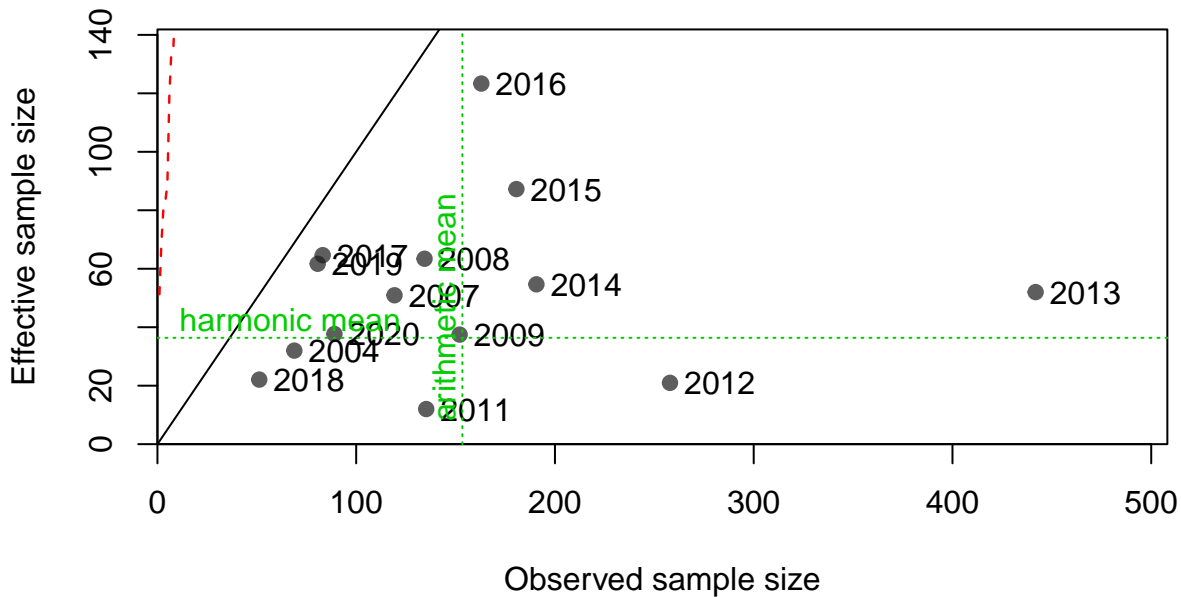
Proportion



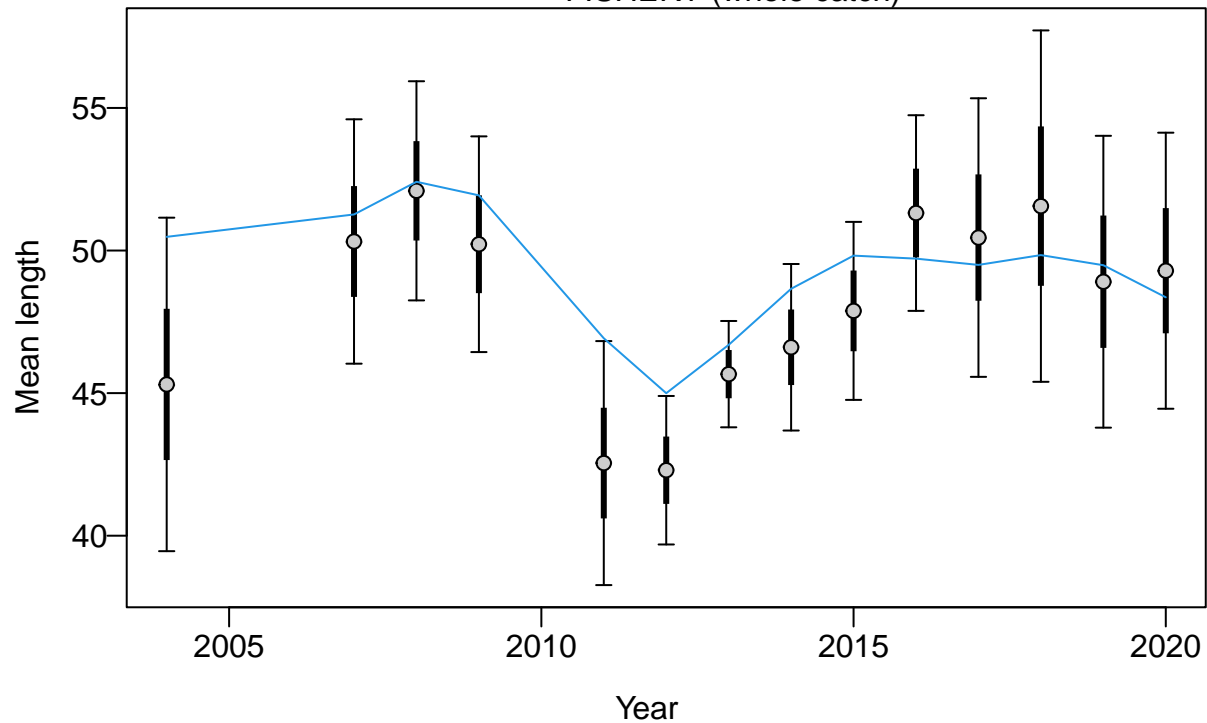
Length (cm)

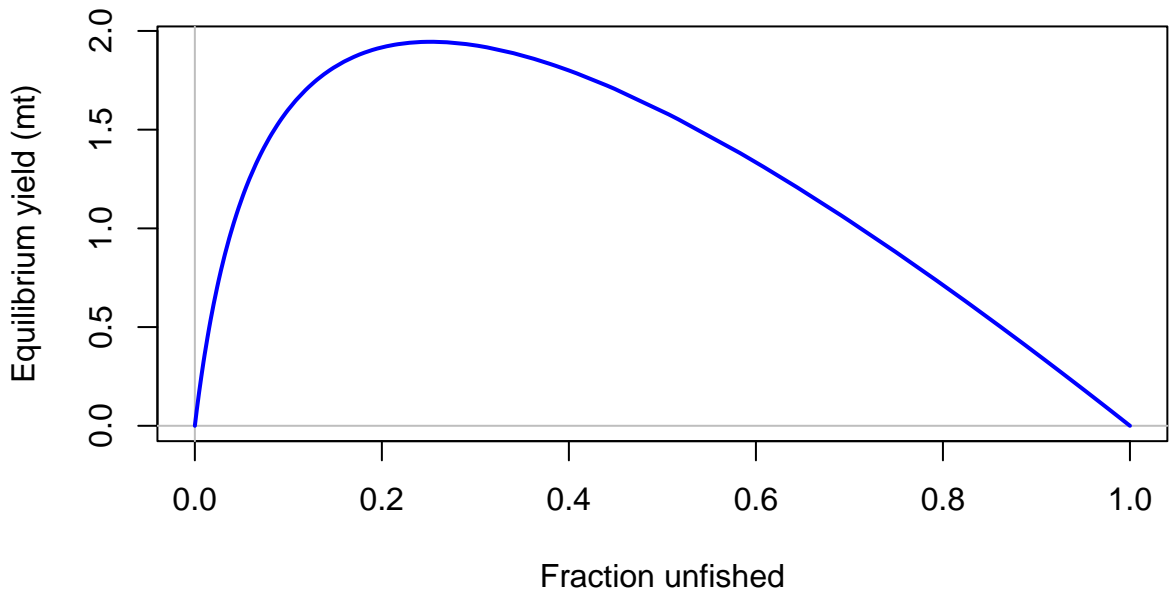


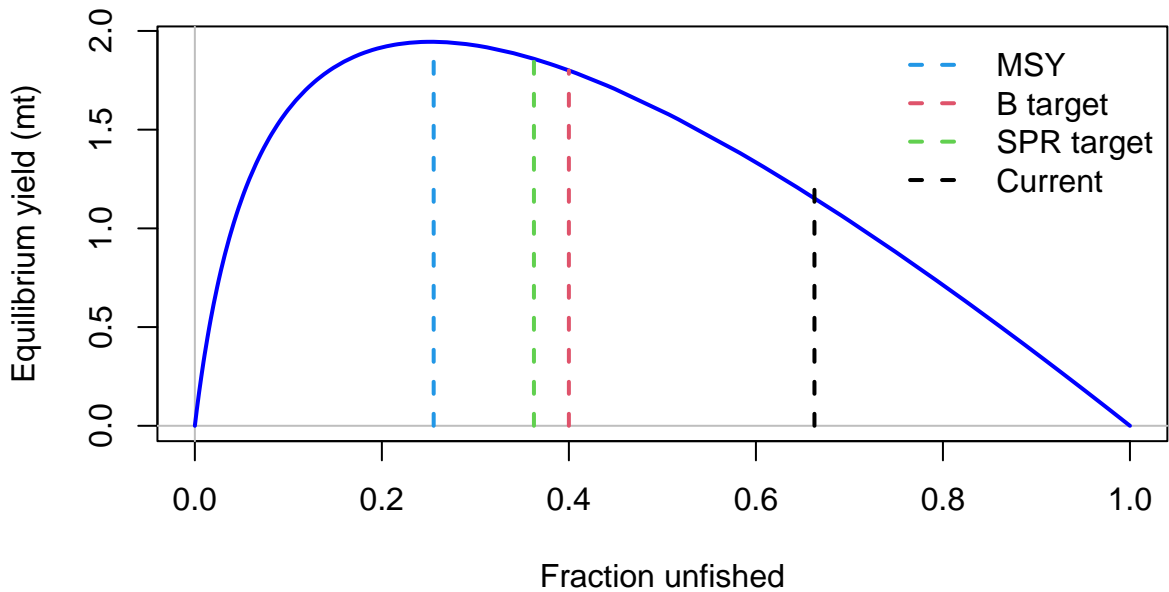


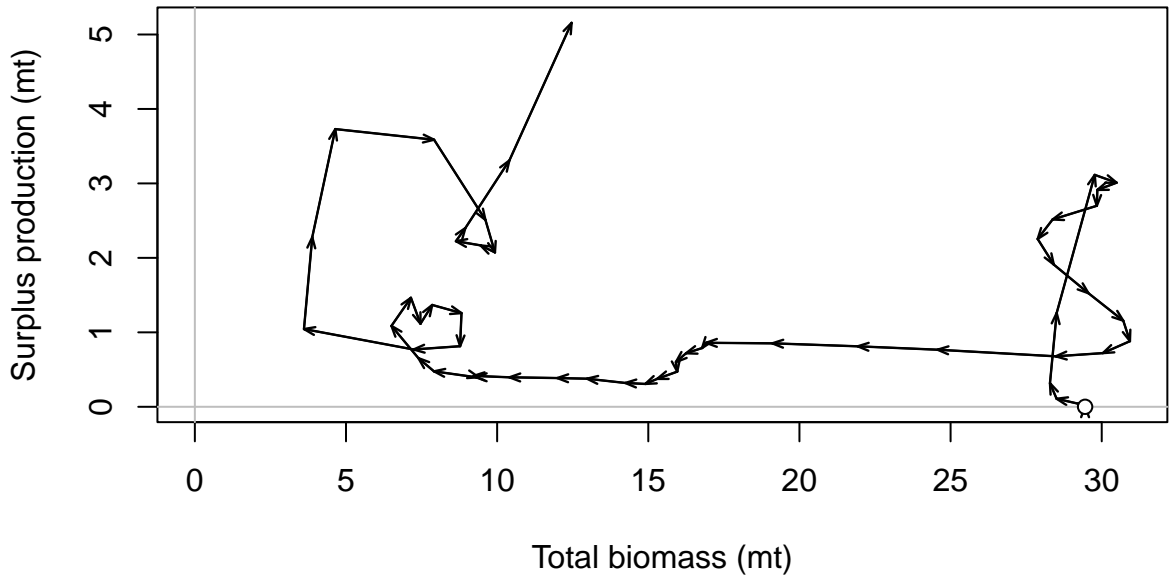


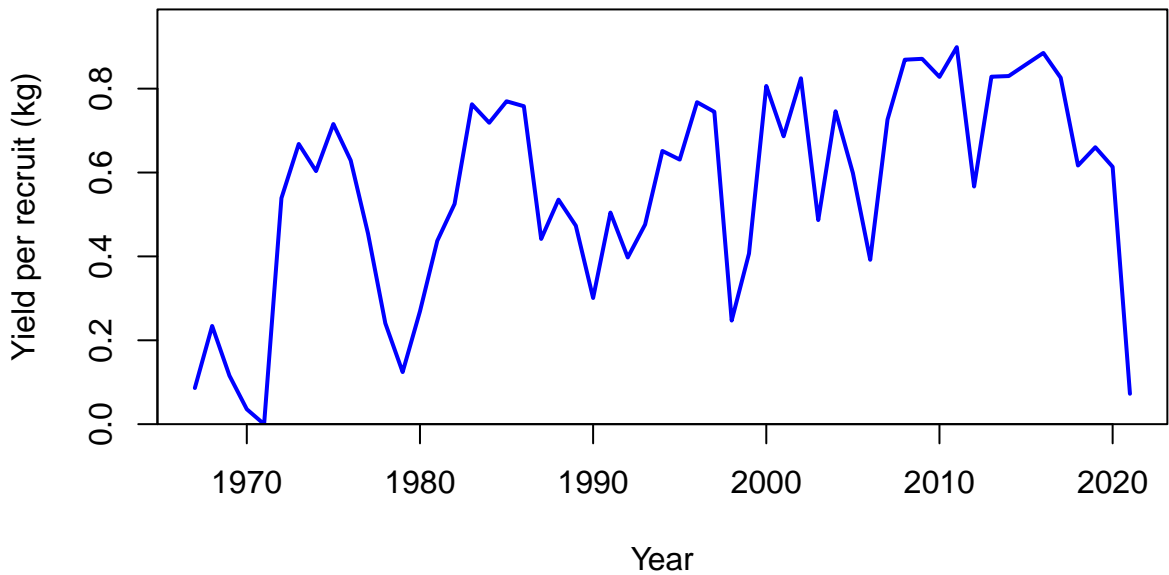
## FISHERY (whole catch)

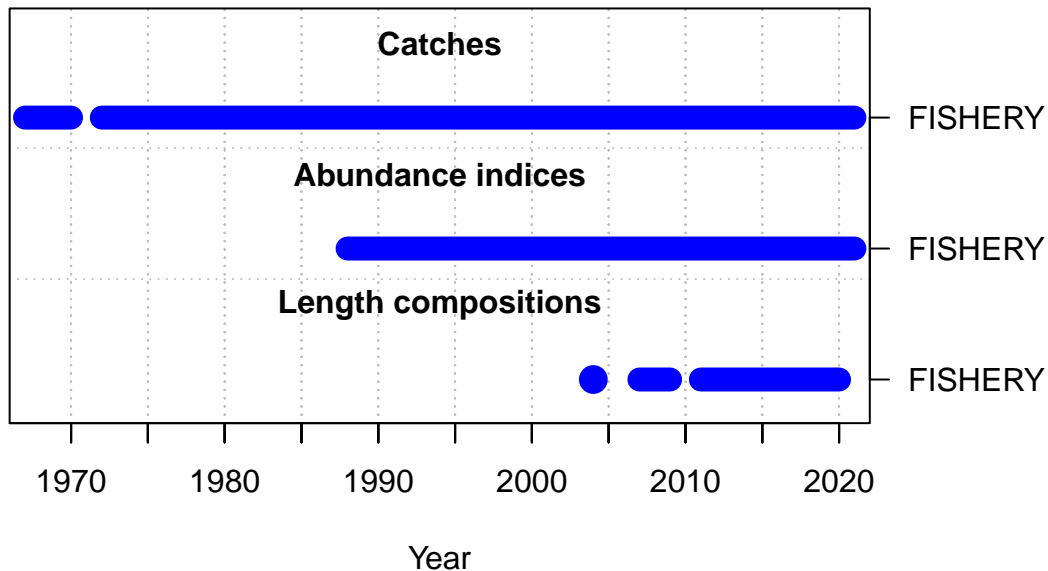


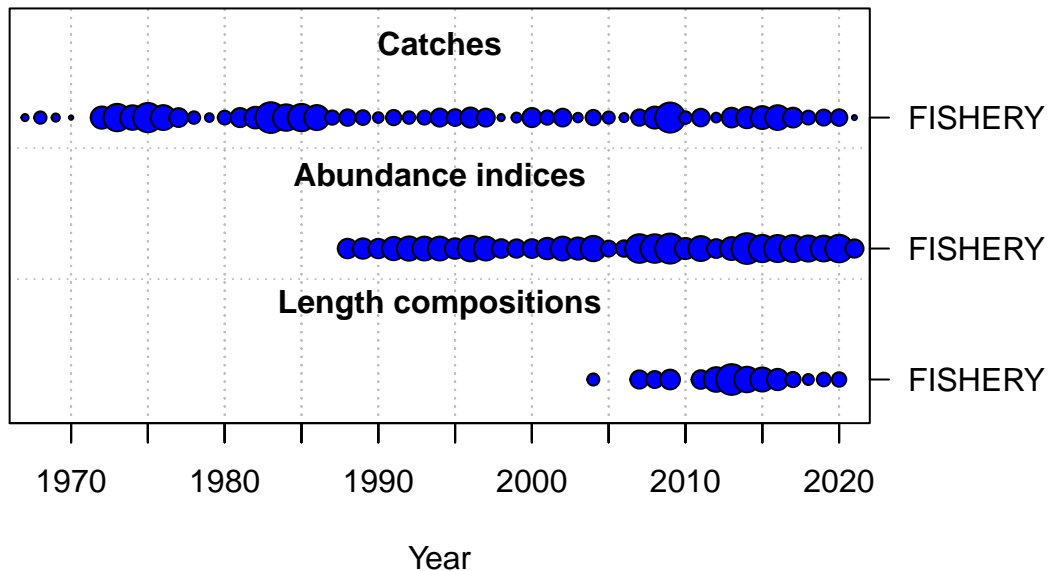














Density

