

Plots created using the 'r4ss' package in R

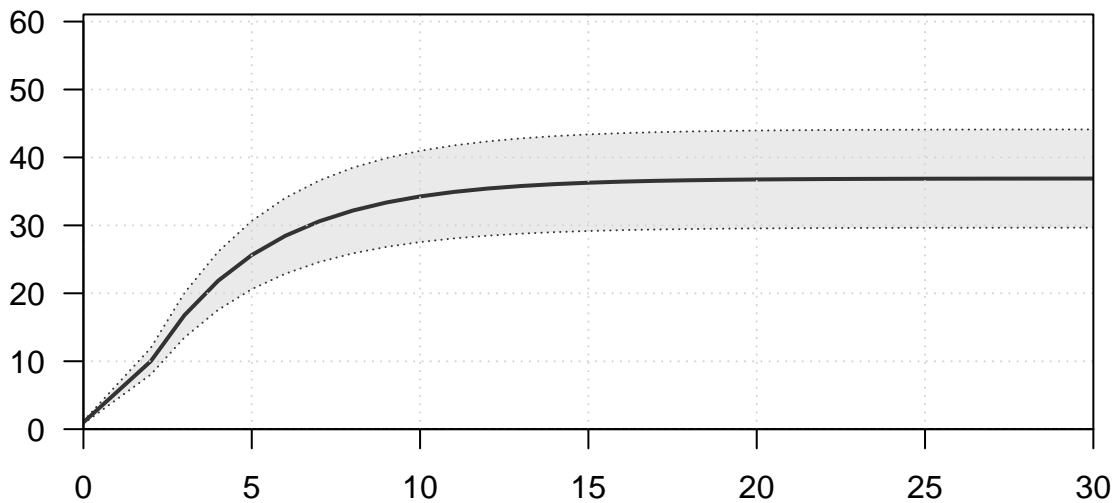
Stock Synthesis version: 3.30.19.0

StartTime: Wed Jun 29 15:46:42 2022

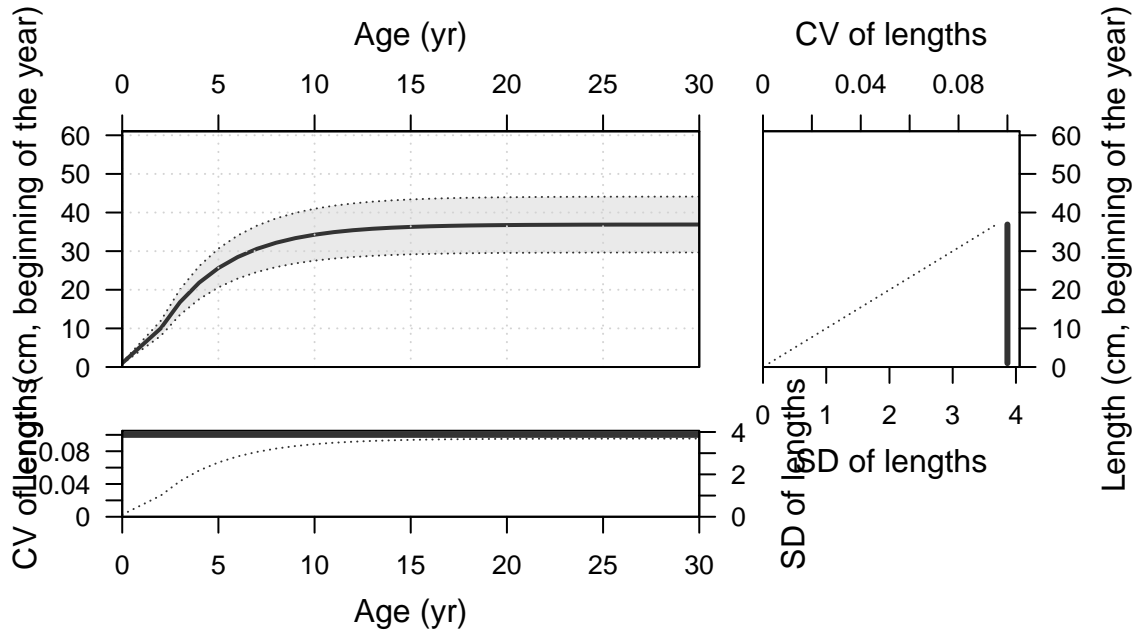
Data\_File: data.ss

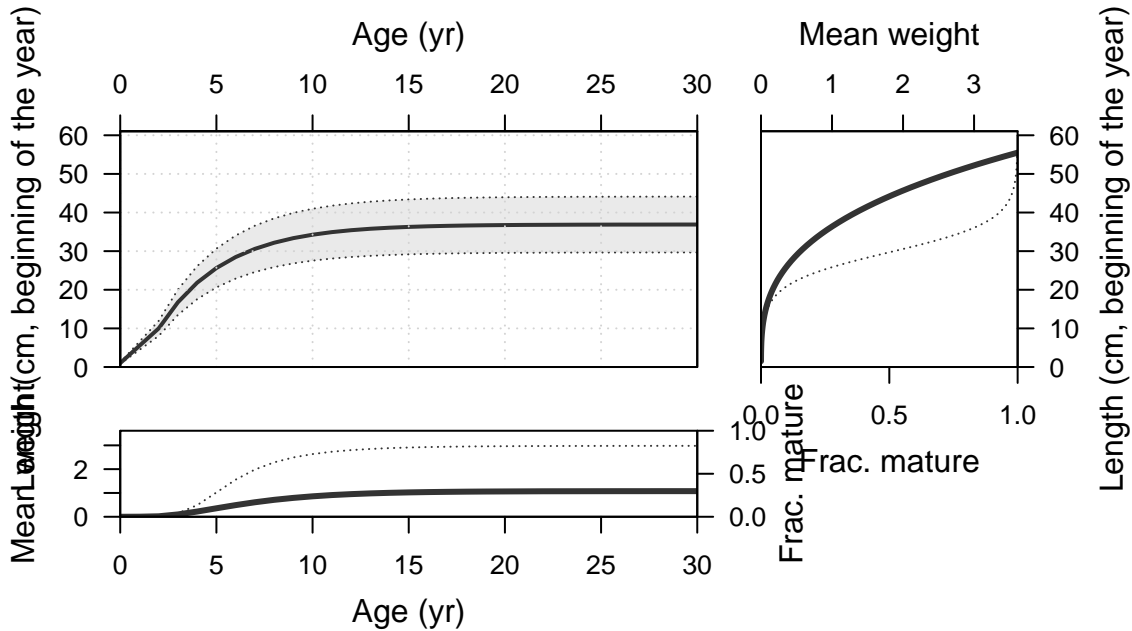
Control\_File: control.ss

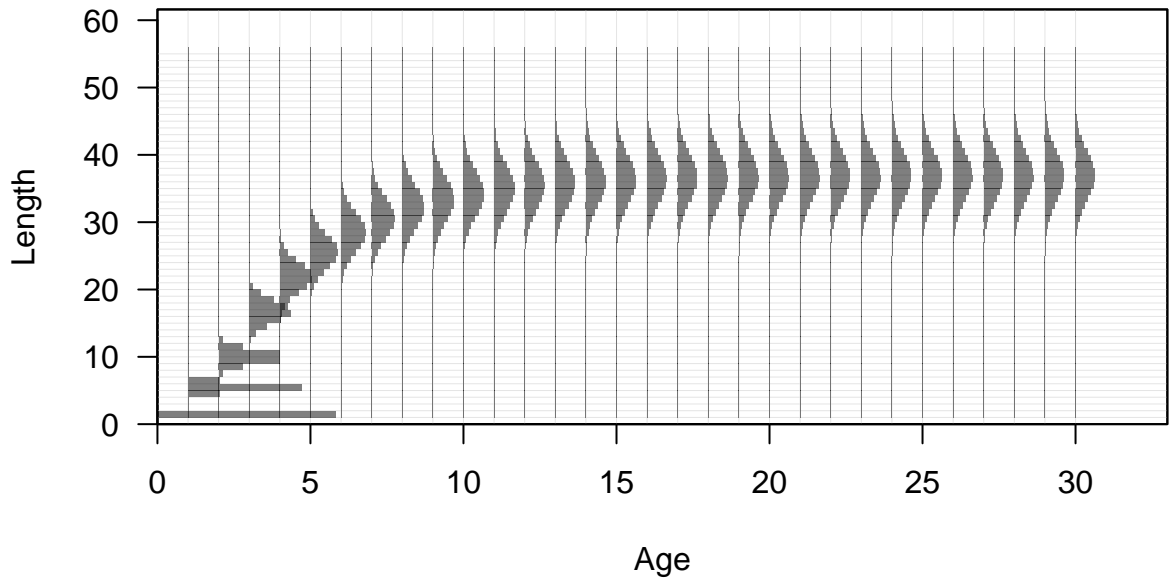
Length (cm, beginning of the year)

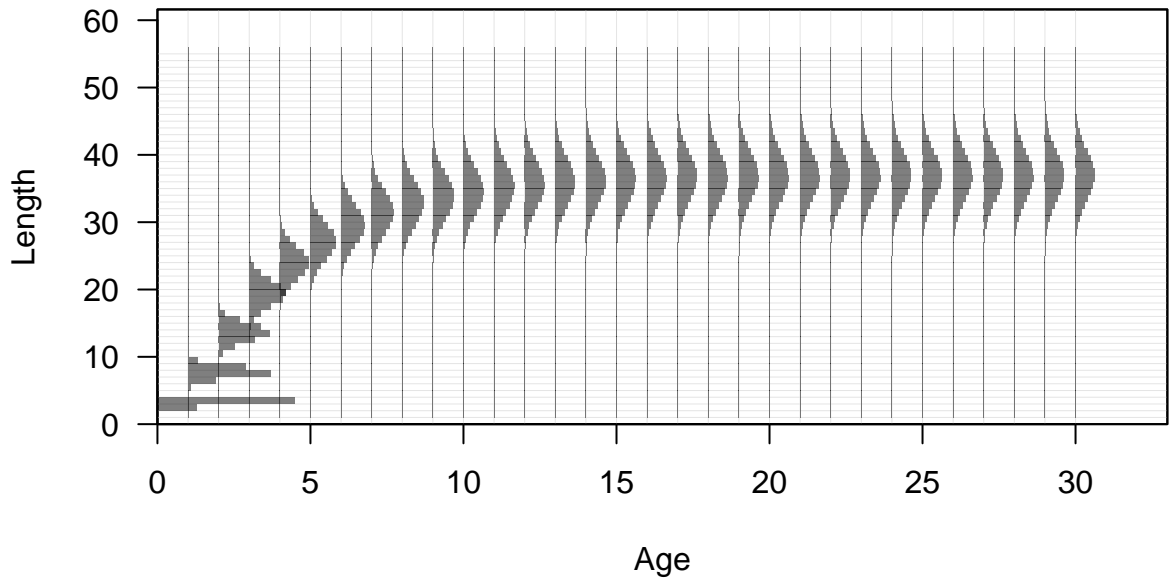


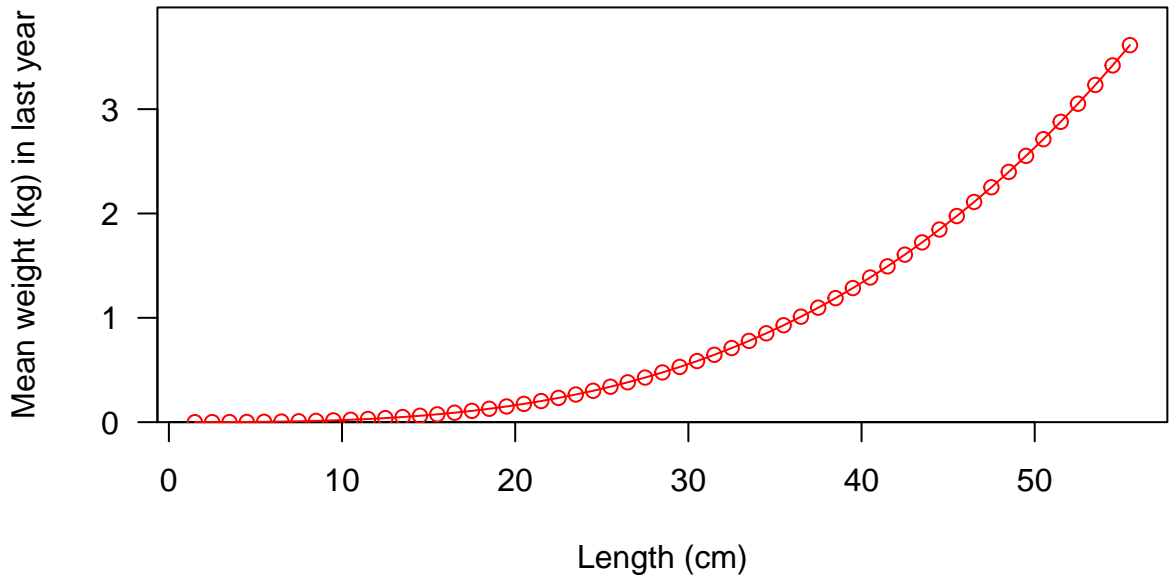
Age (yr)

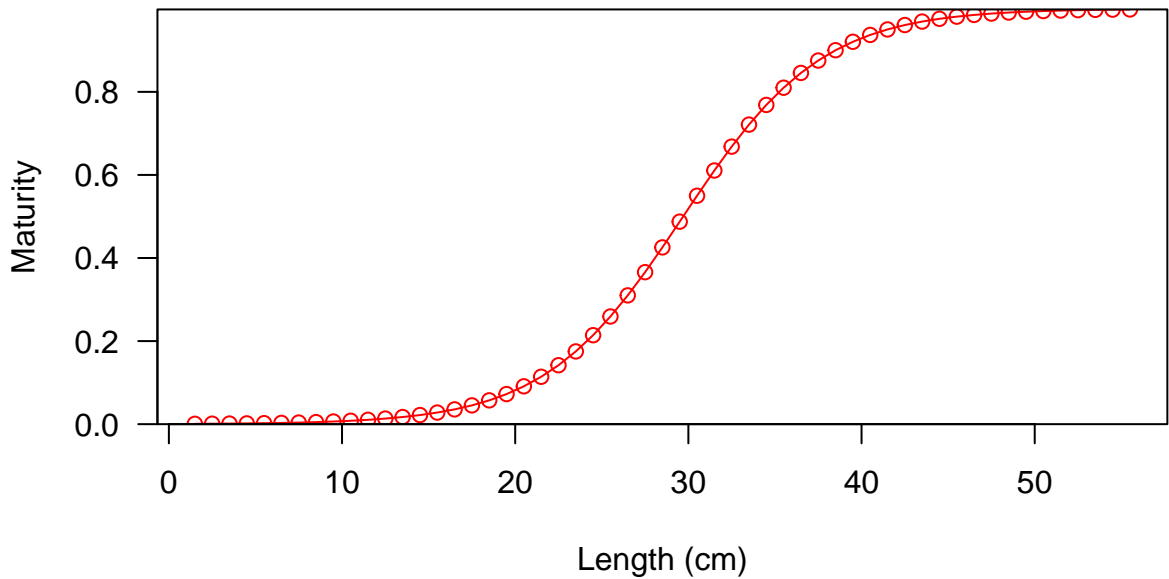




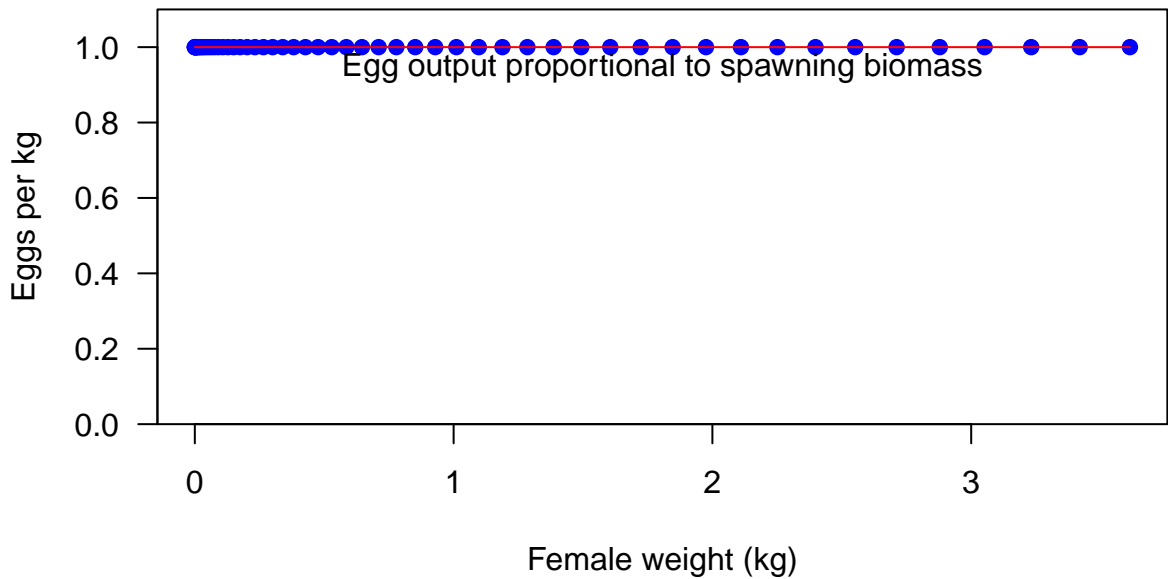




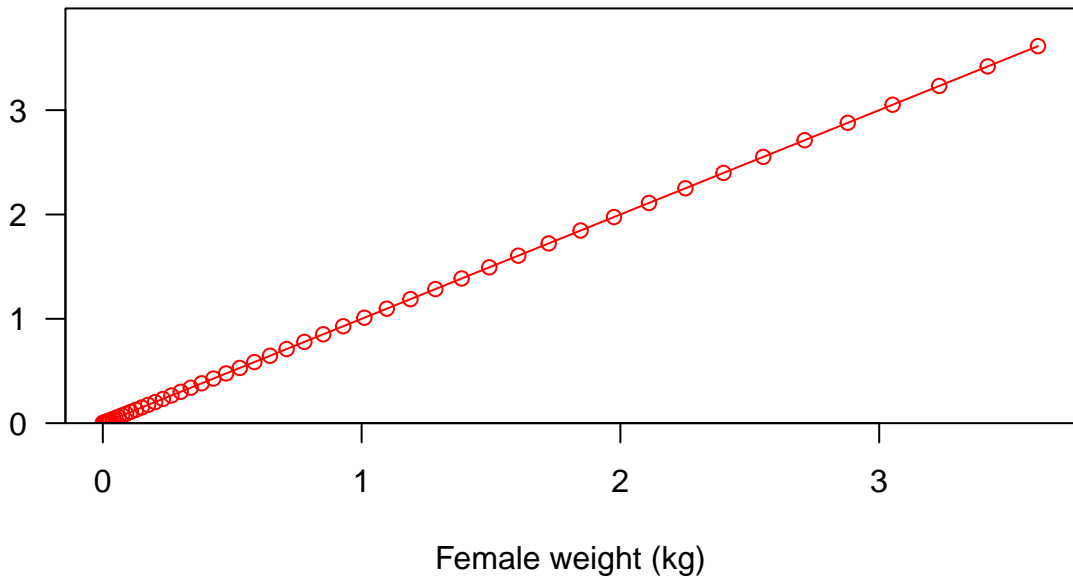




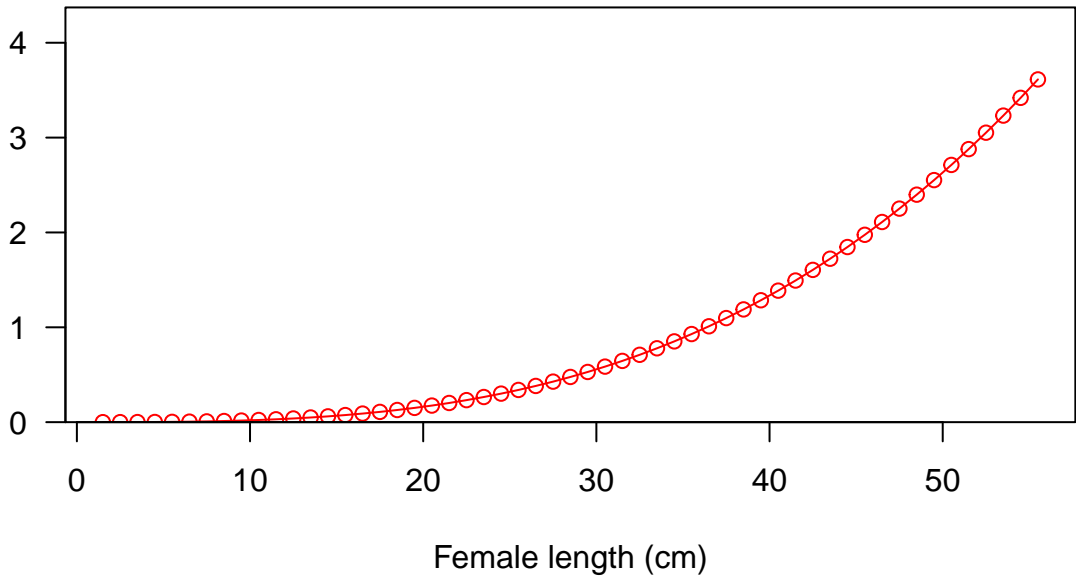




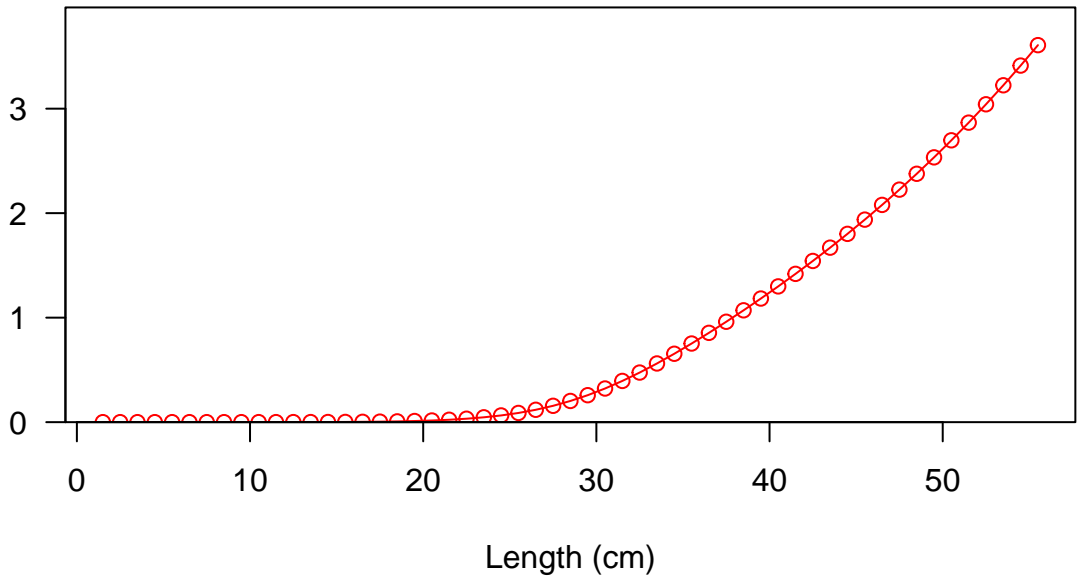
Fecundity

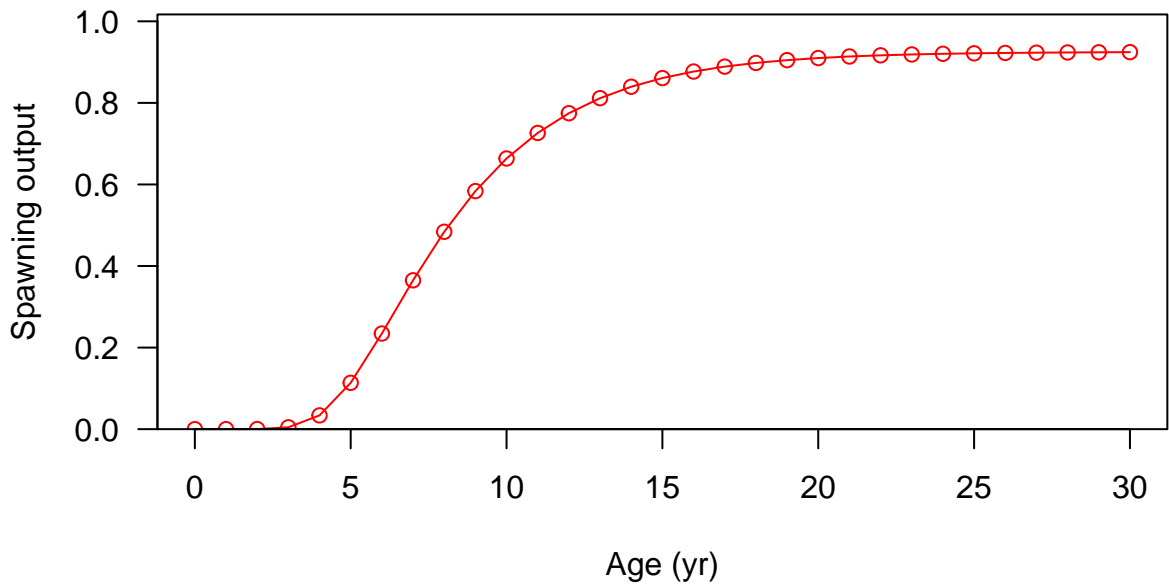


Fecundity

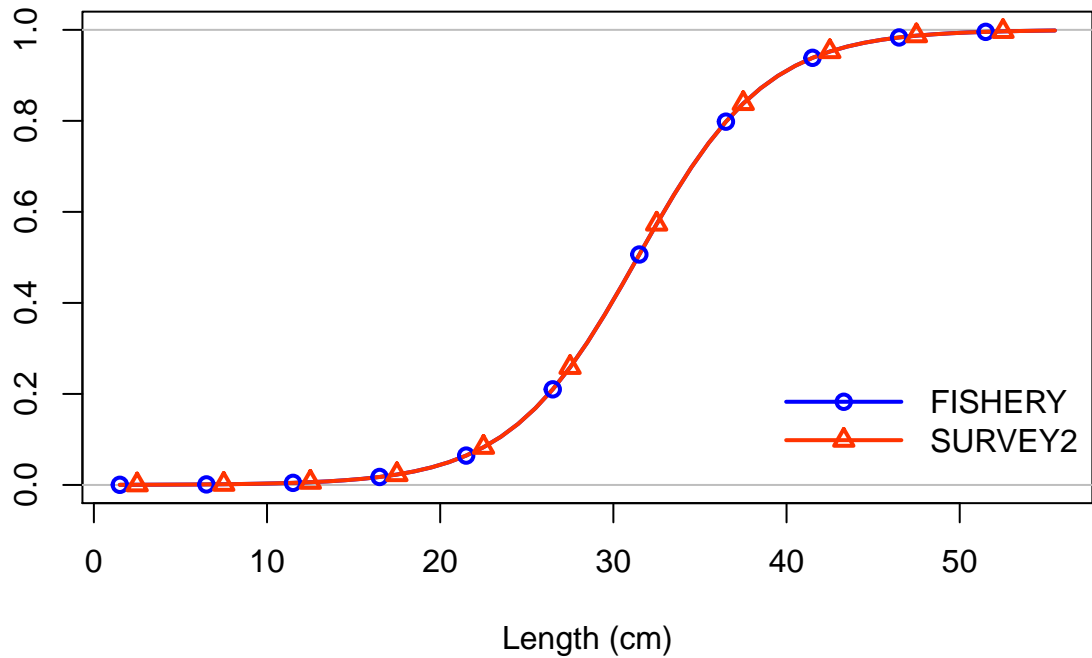


Spawning output

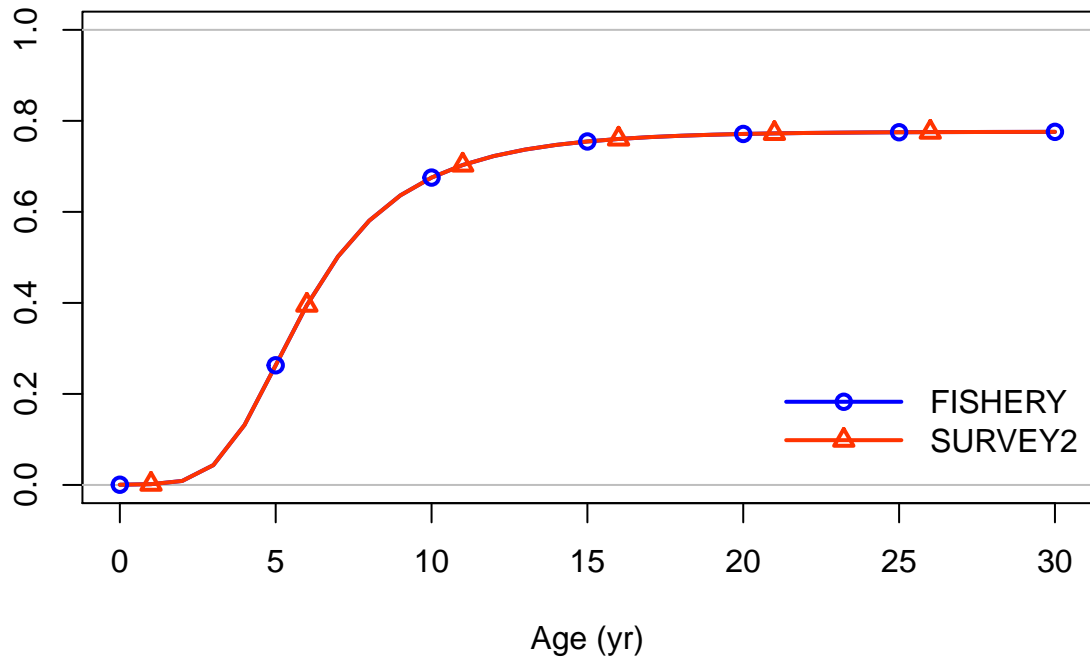




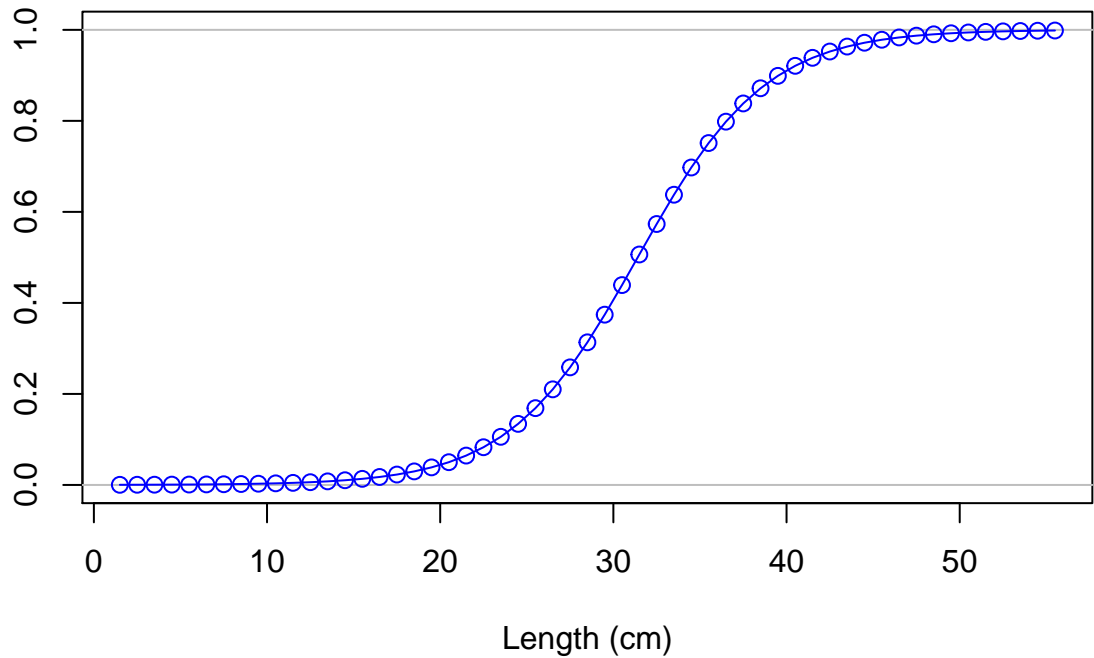
Selectivity



Selectivity

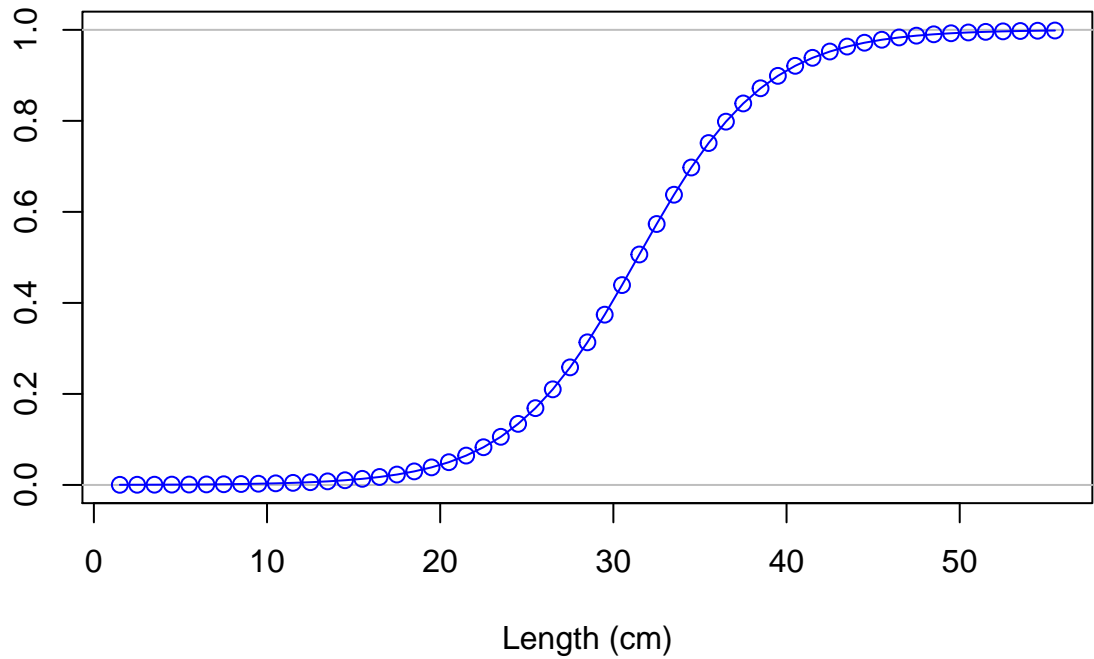


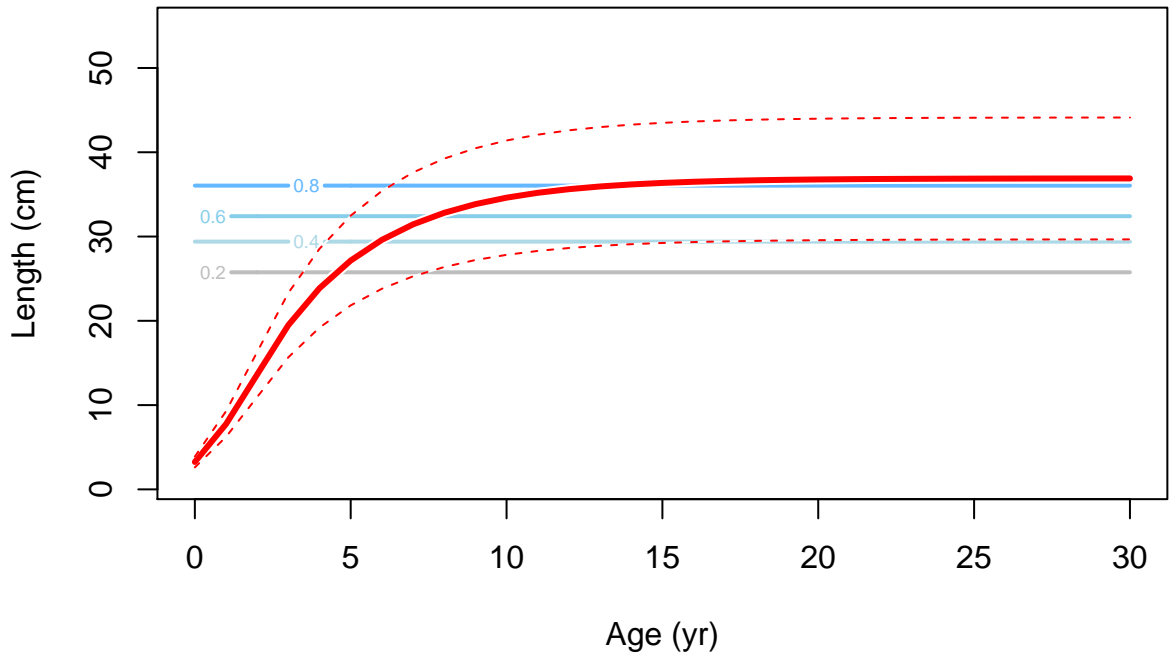
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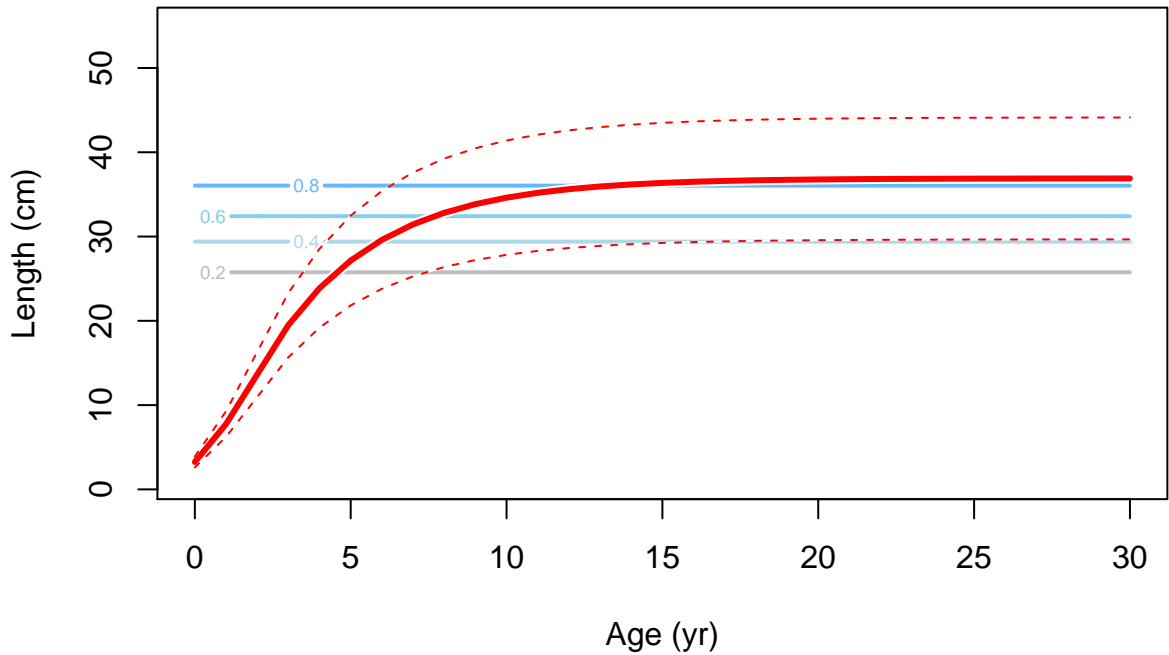


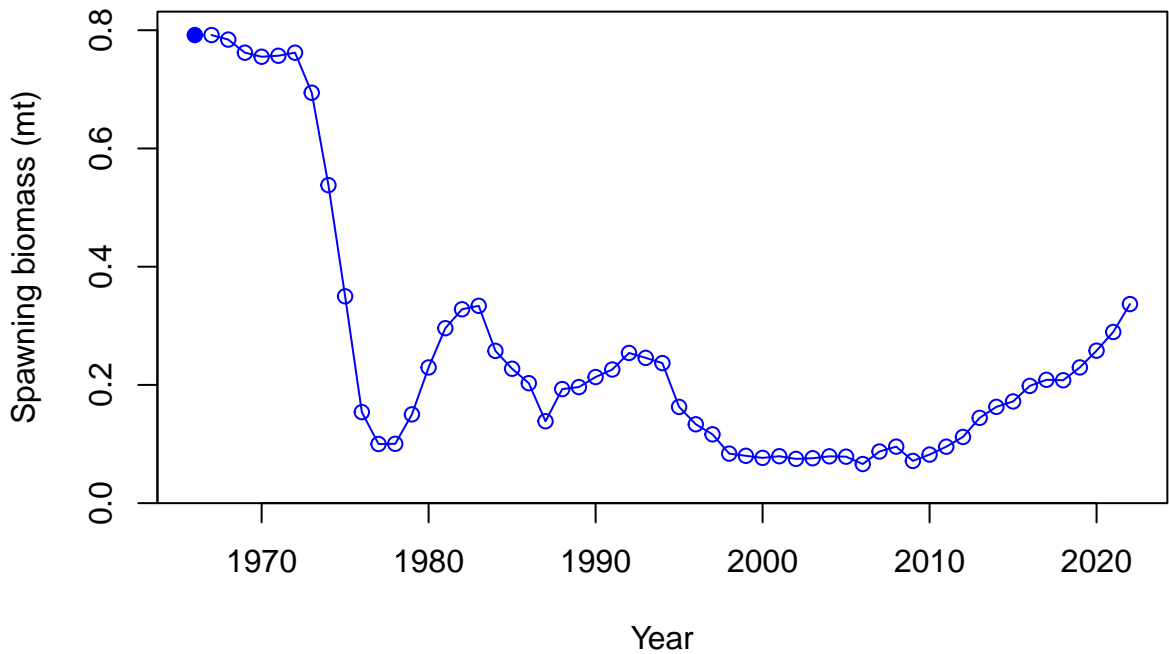


Selectivity

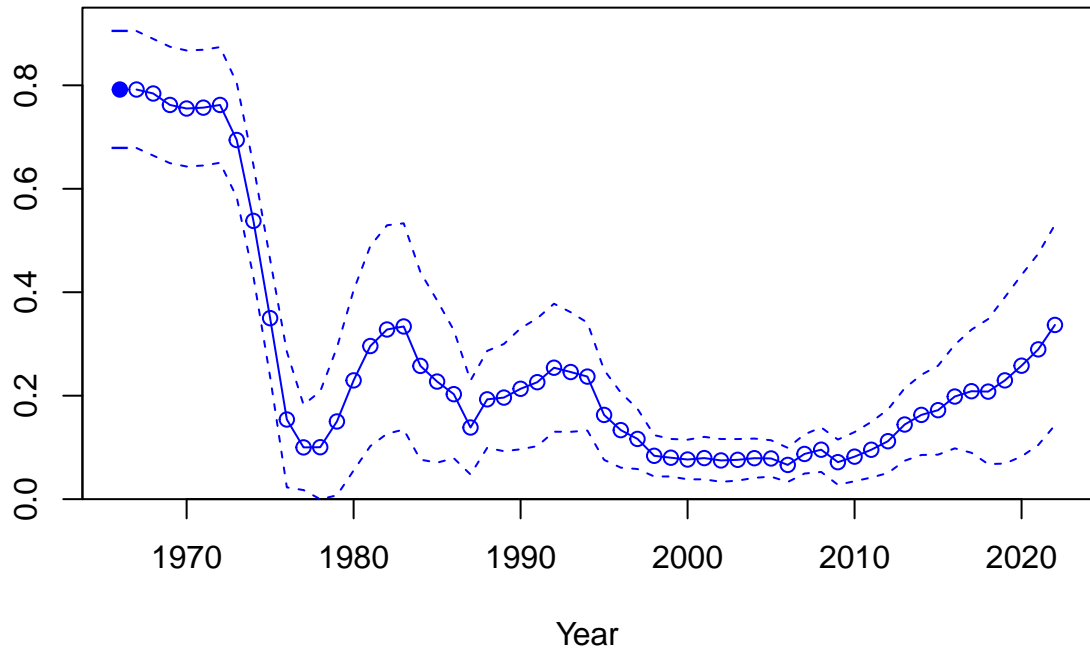




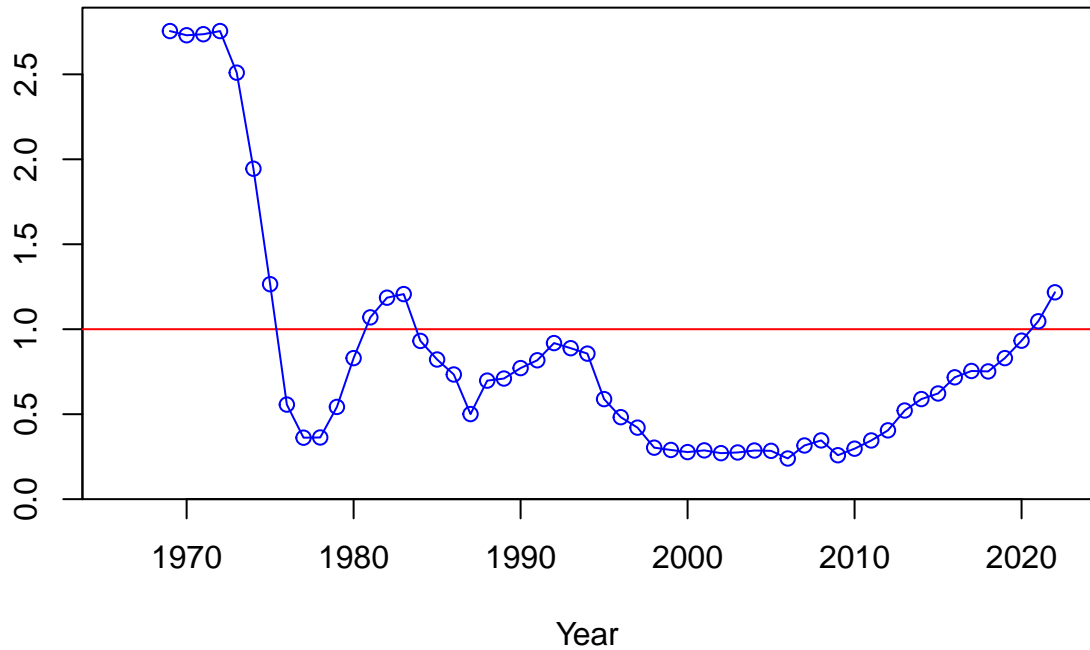




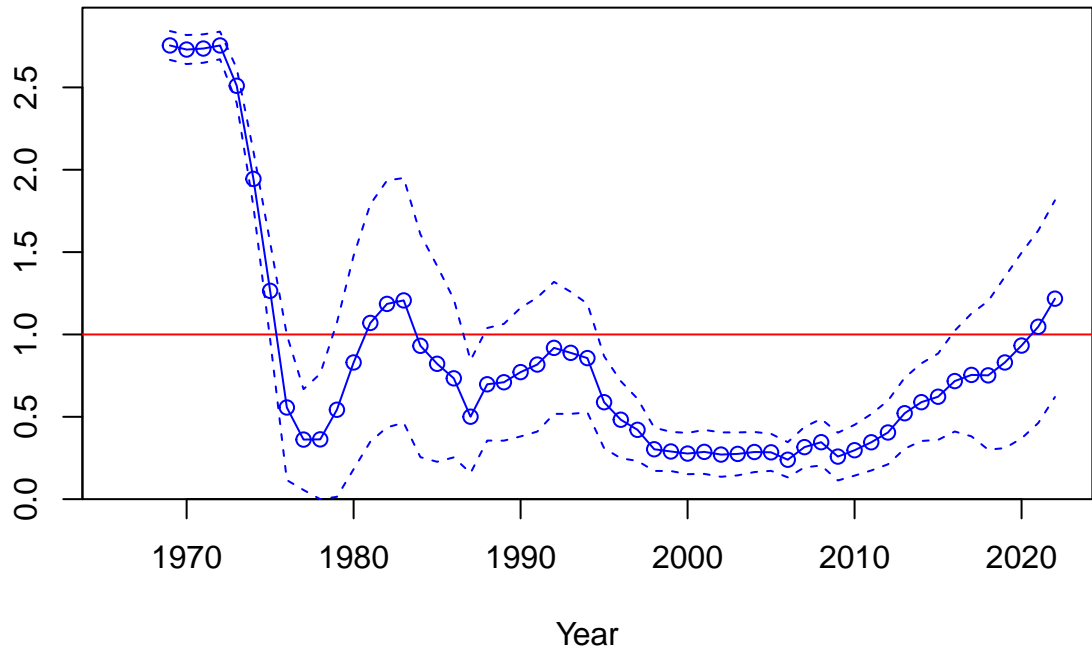
Spawning biomass (mt)

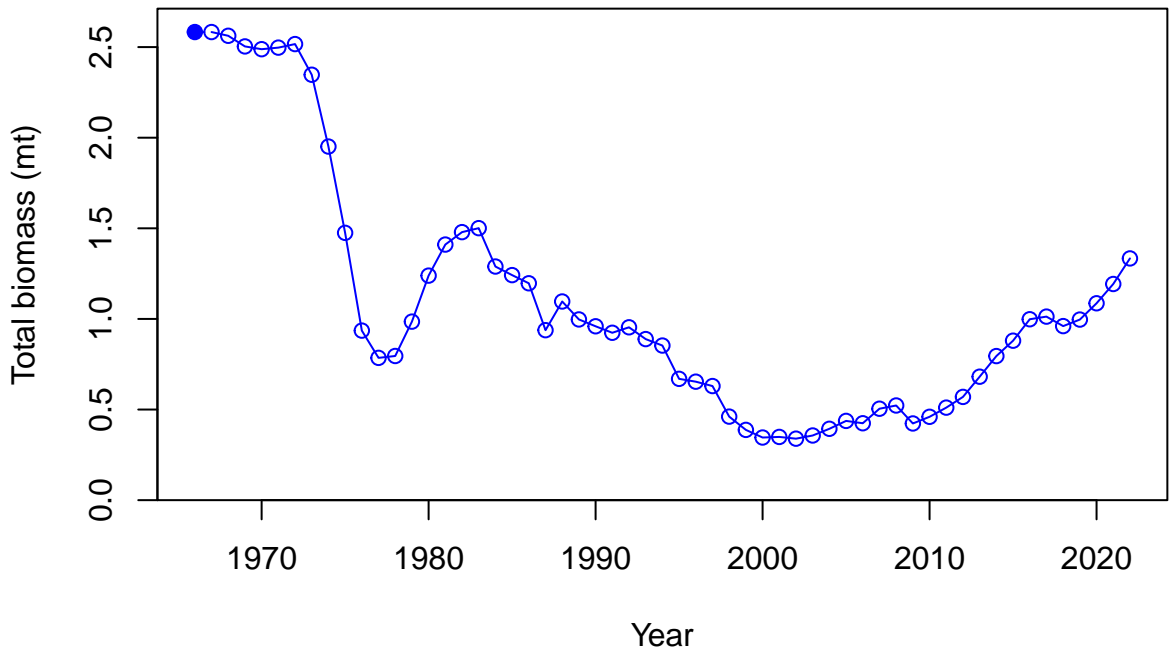


Relative spawning biomass:  $B/B_{MSY}$

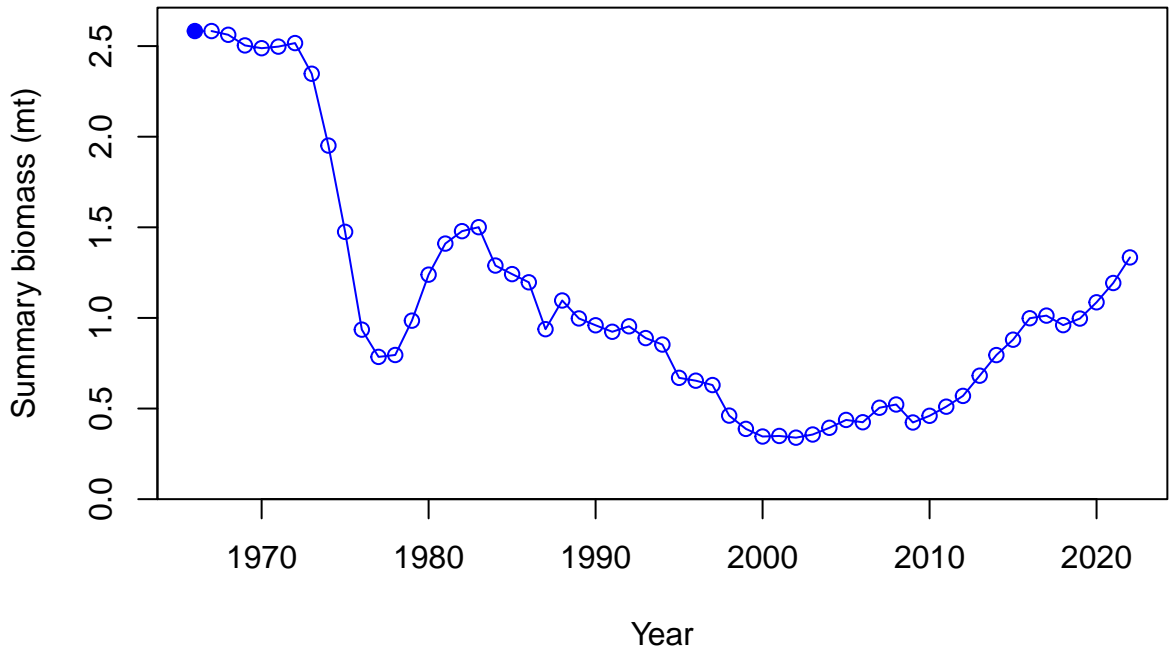


Relative spawning biomass:  $B/B_{MSY}$

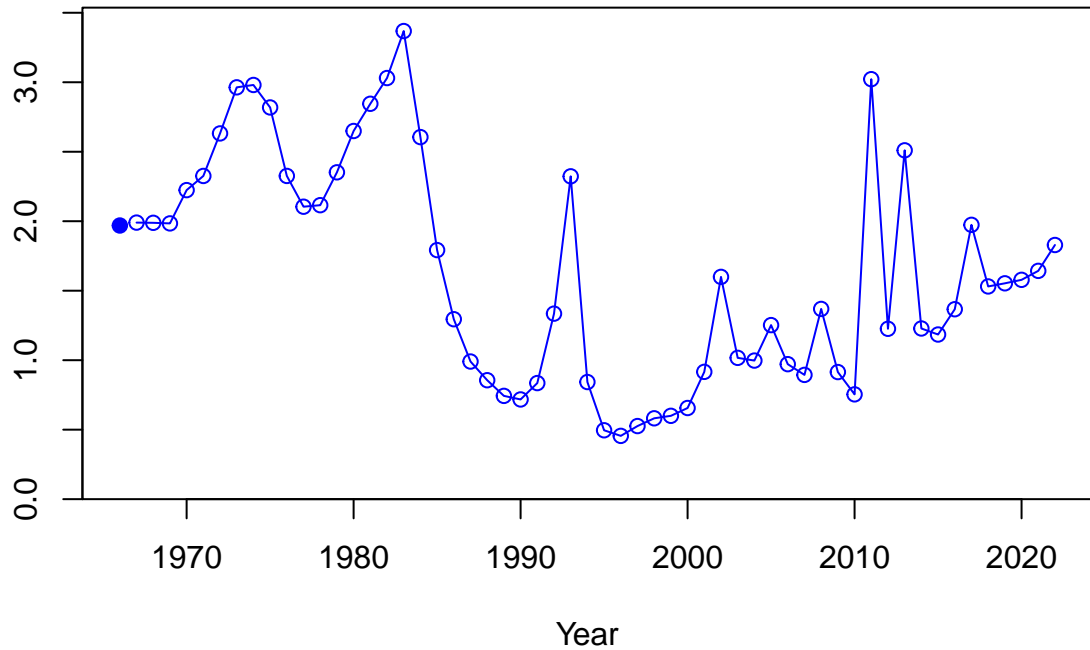




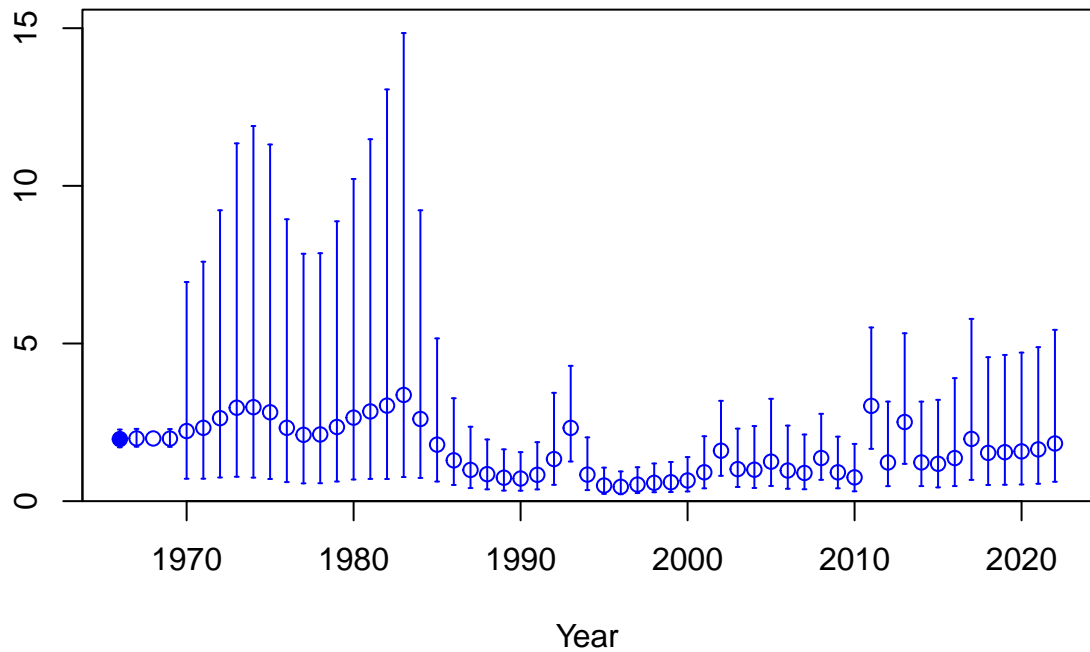




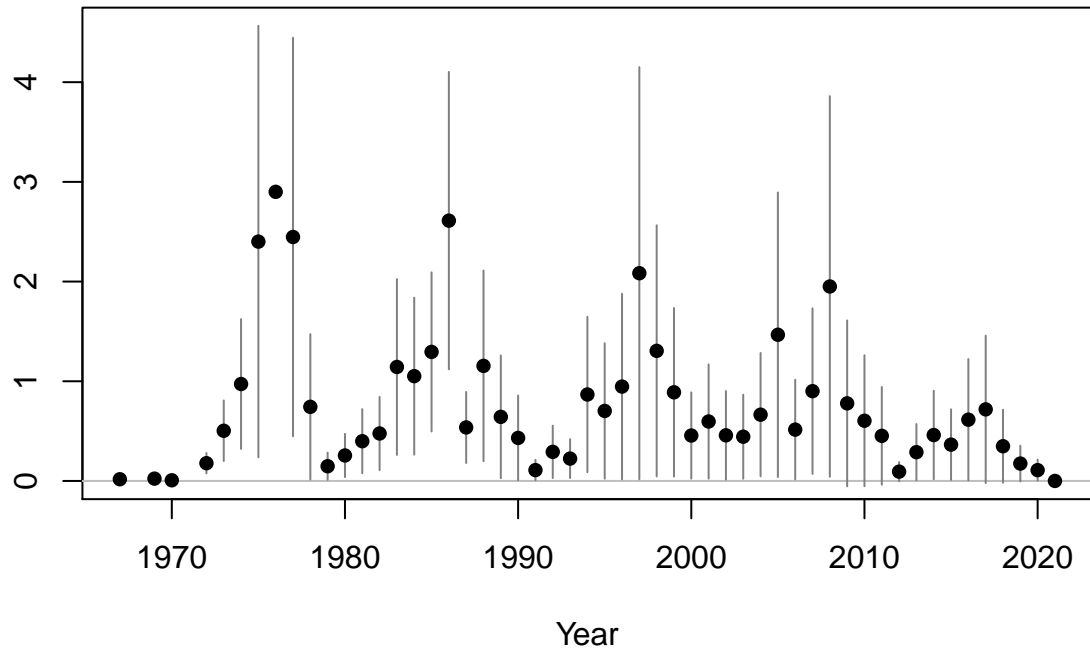
Age-0 recruits (1,000s)

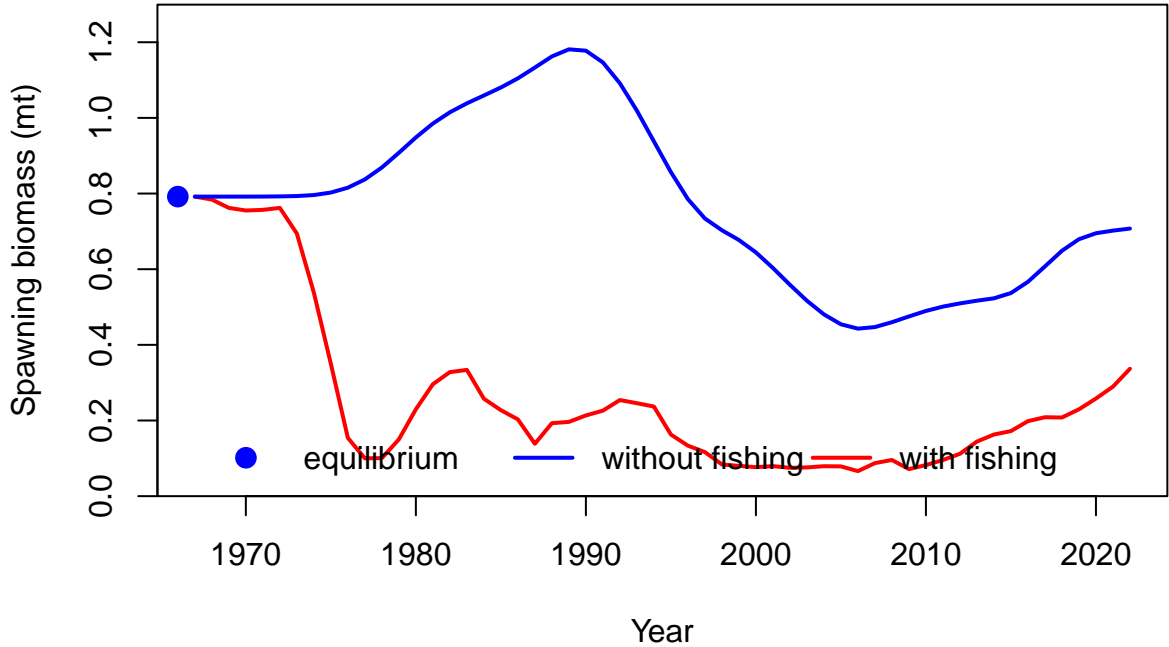


Age-0 recruits (1,000s)

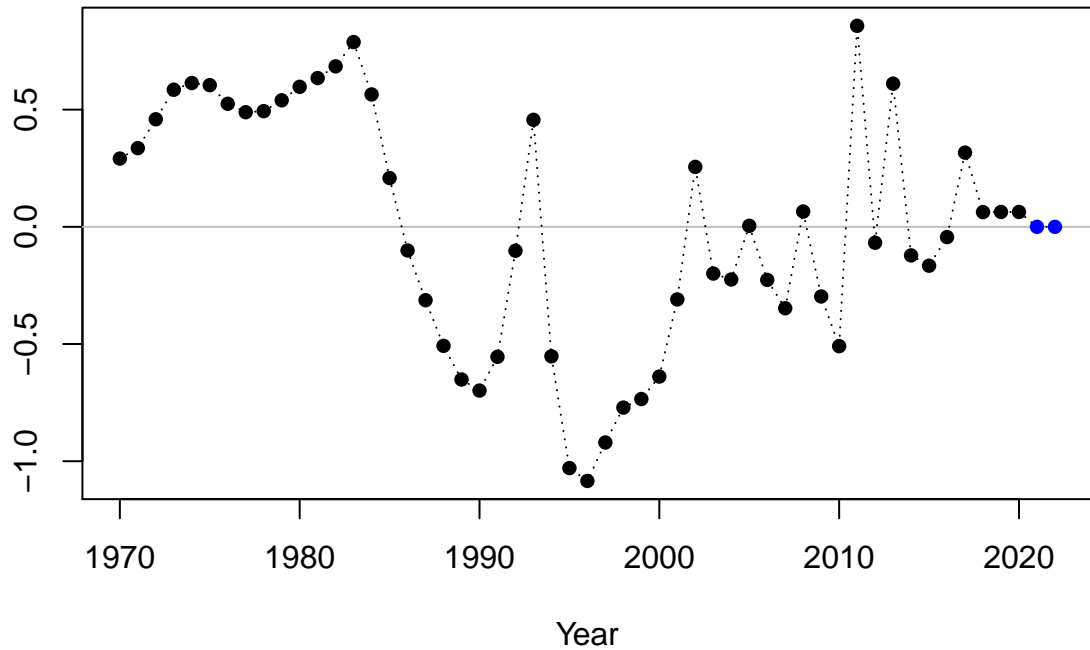


Summary Fishing Mortality



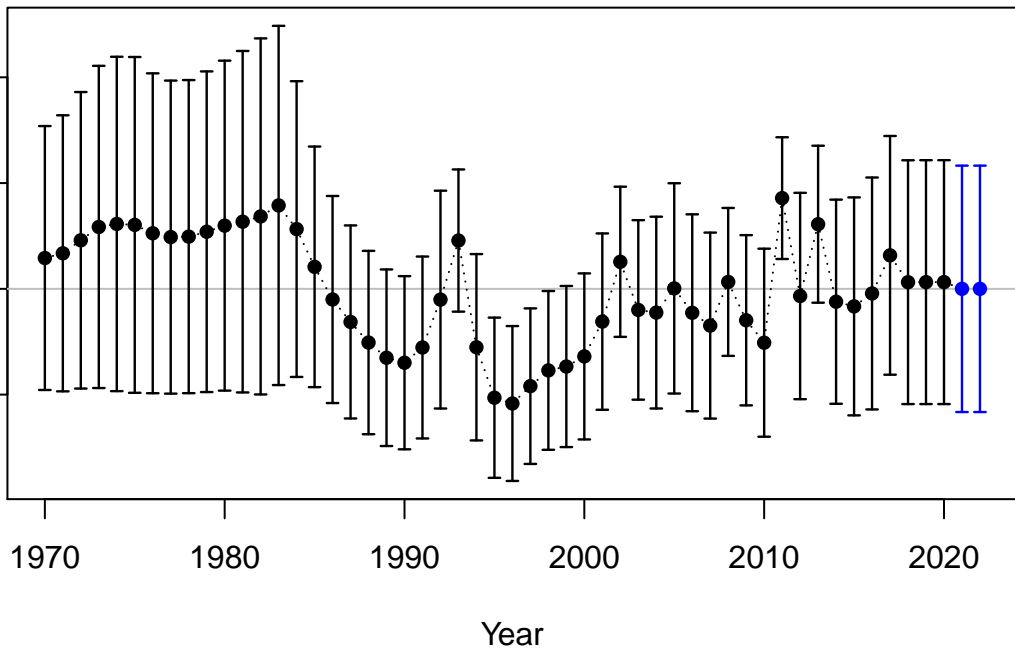


Log recruitment deviation



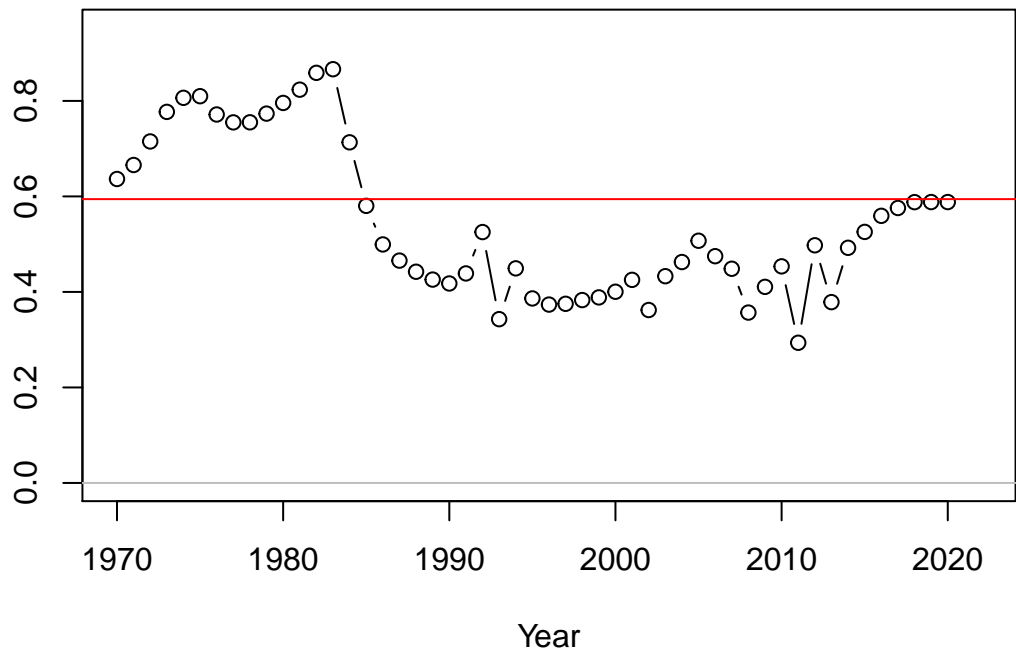
Log recruitment deviation

2  
1  
0  
-1

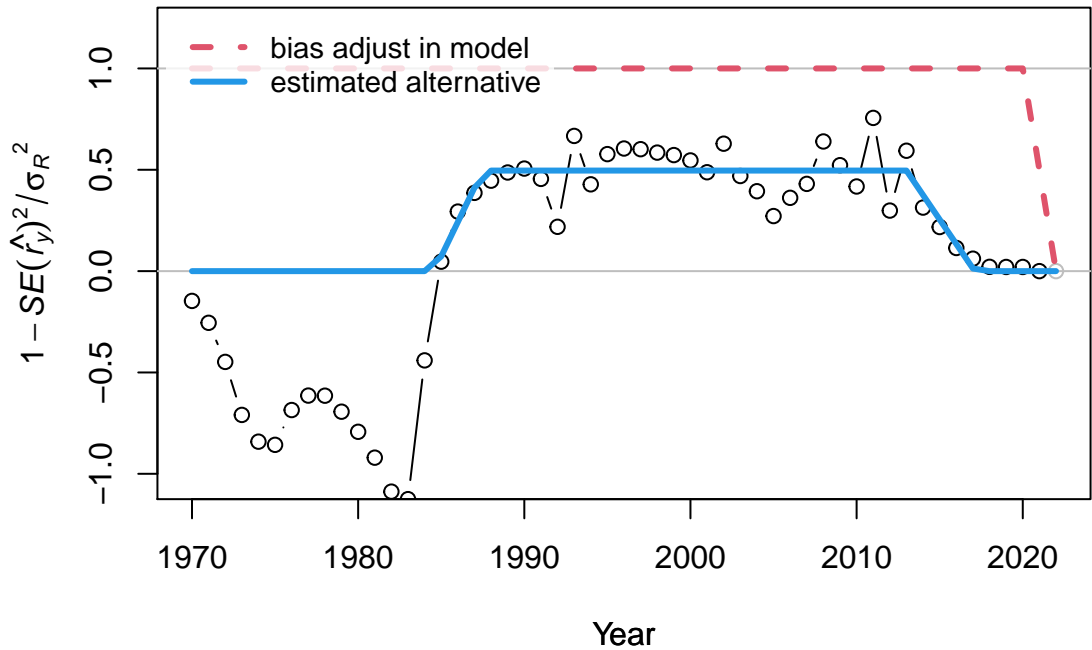


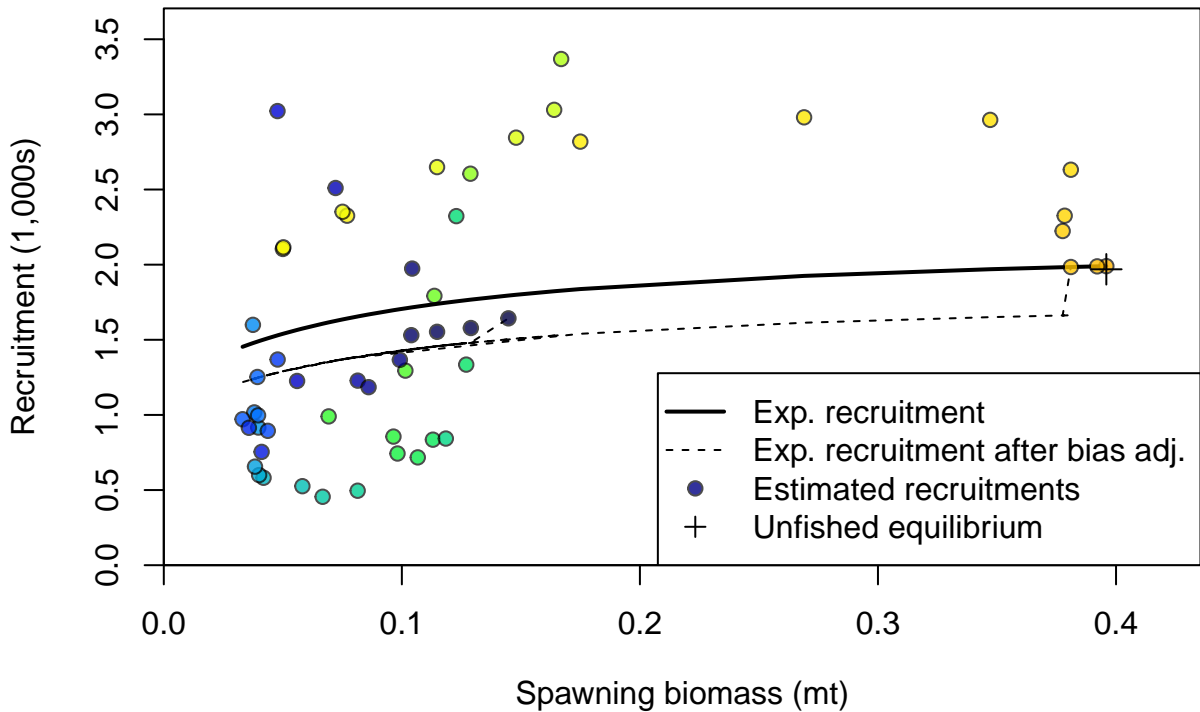
## Recruitment deviation variance

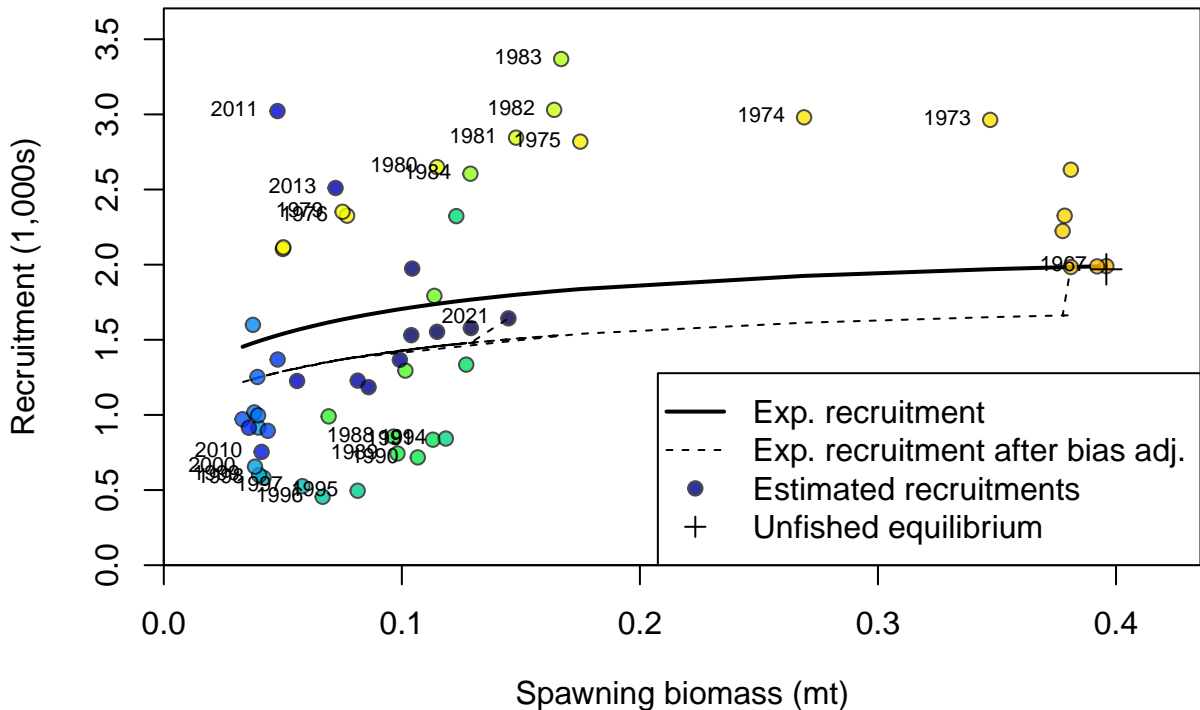
Asymptotic standard error estimate



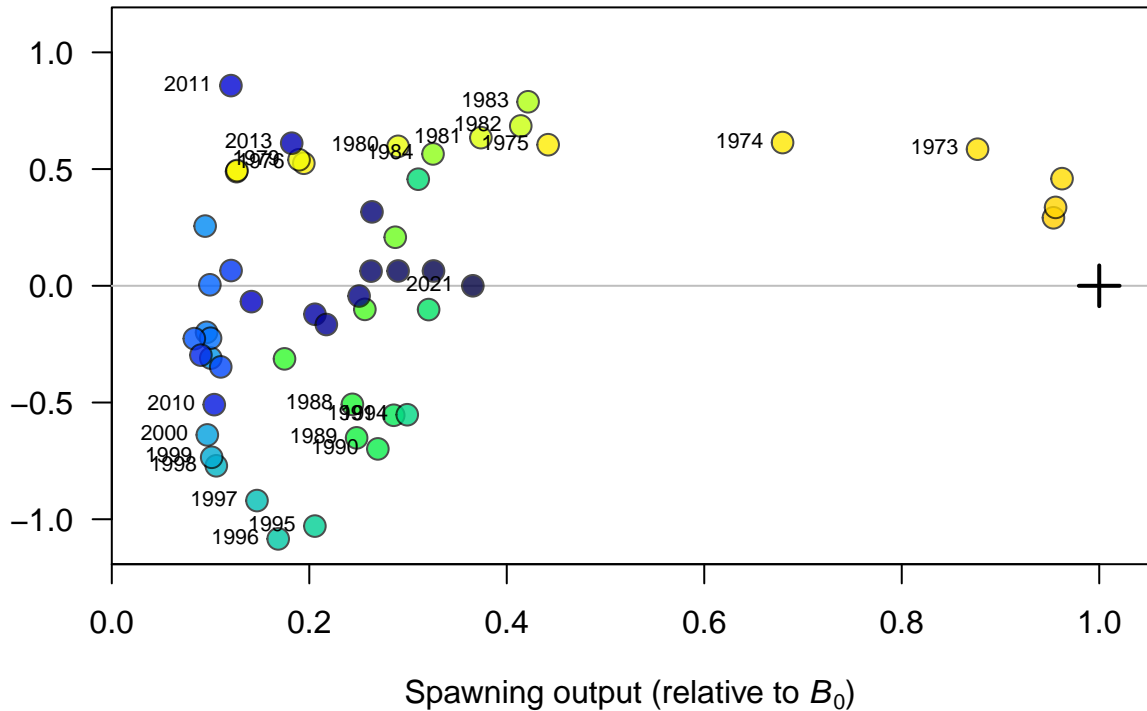


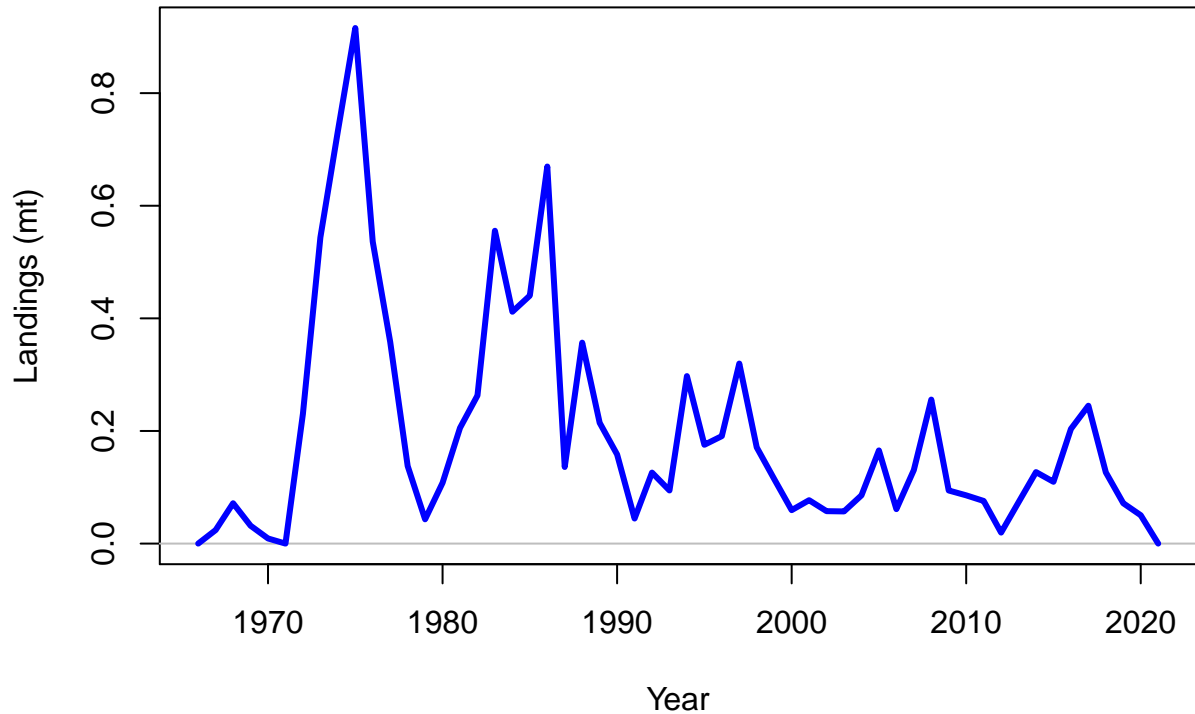


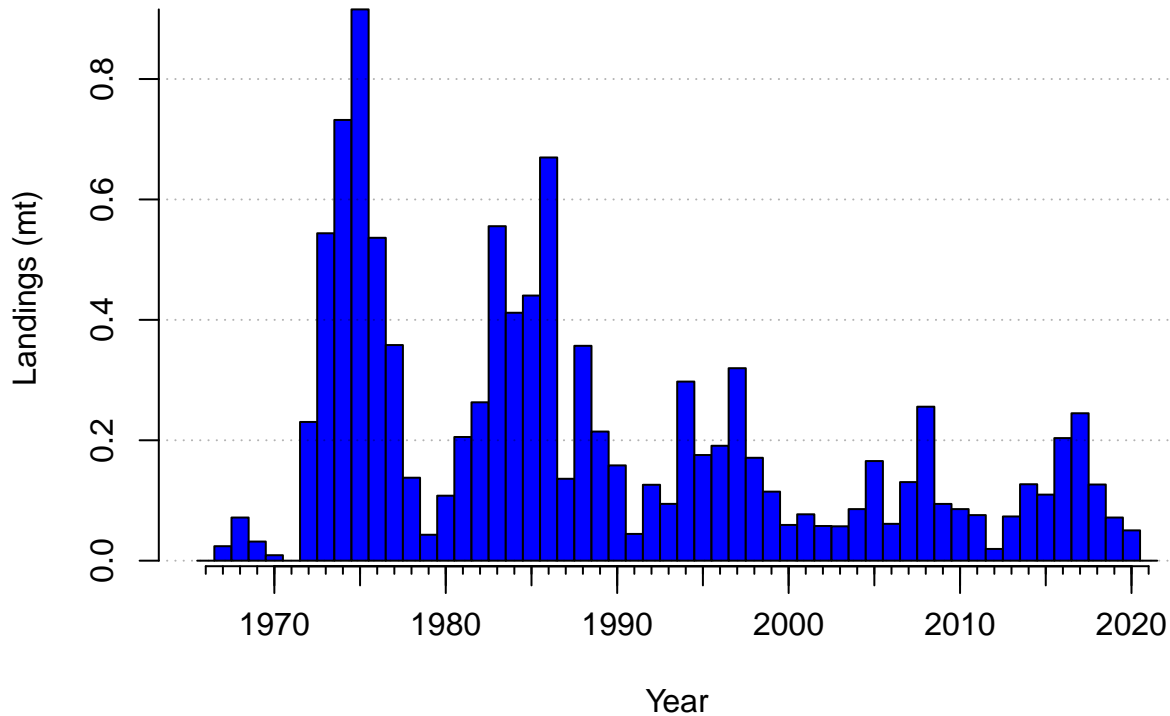


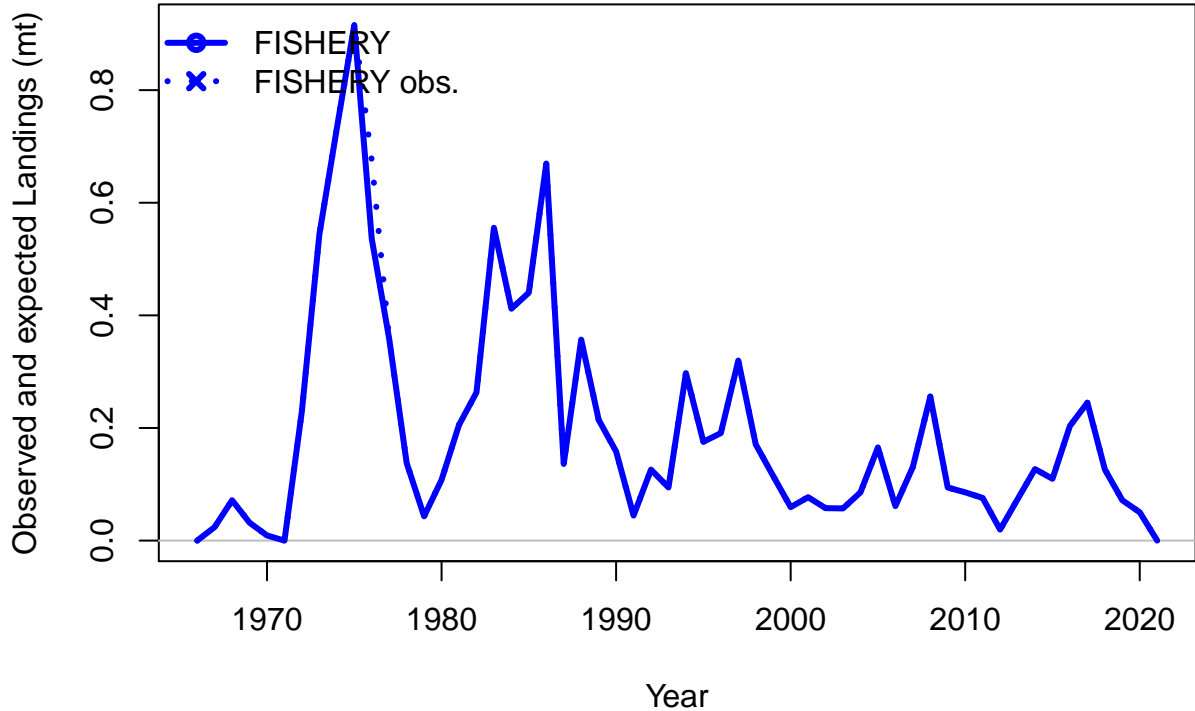


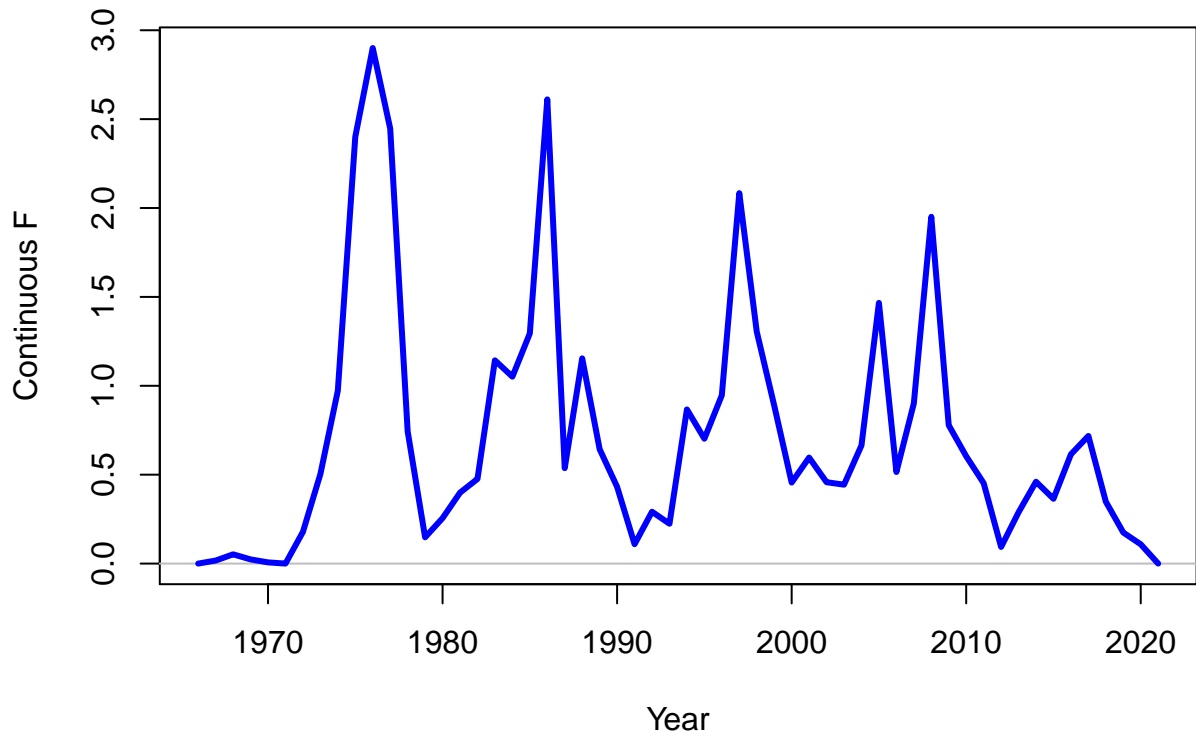
Log recruitment deviation





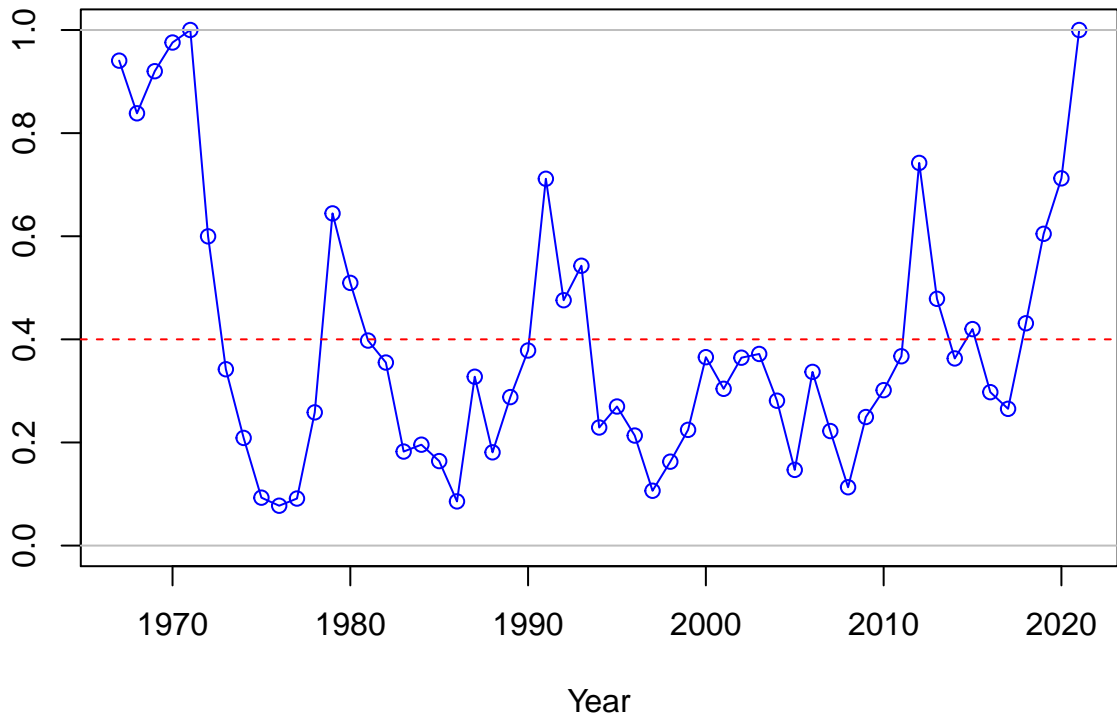


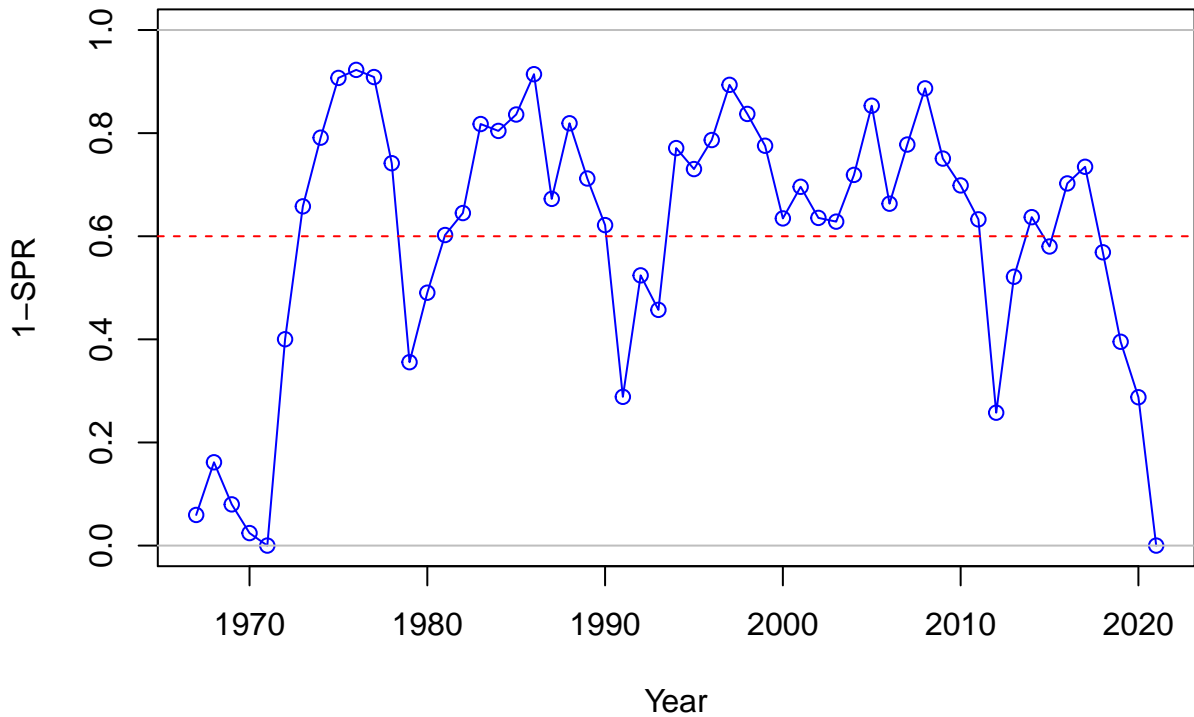




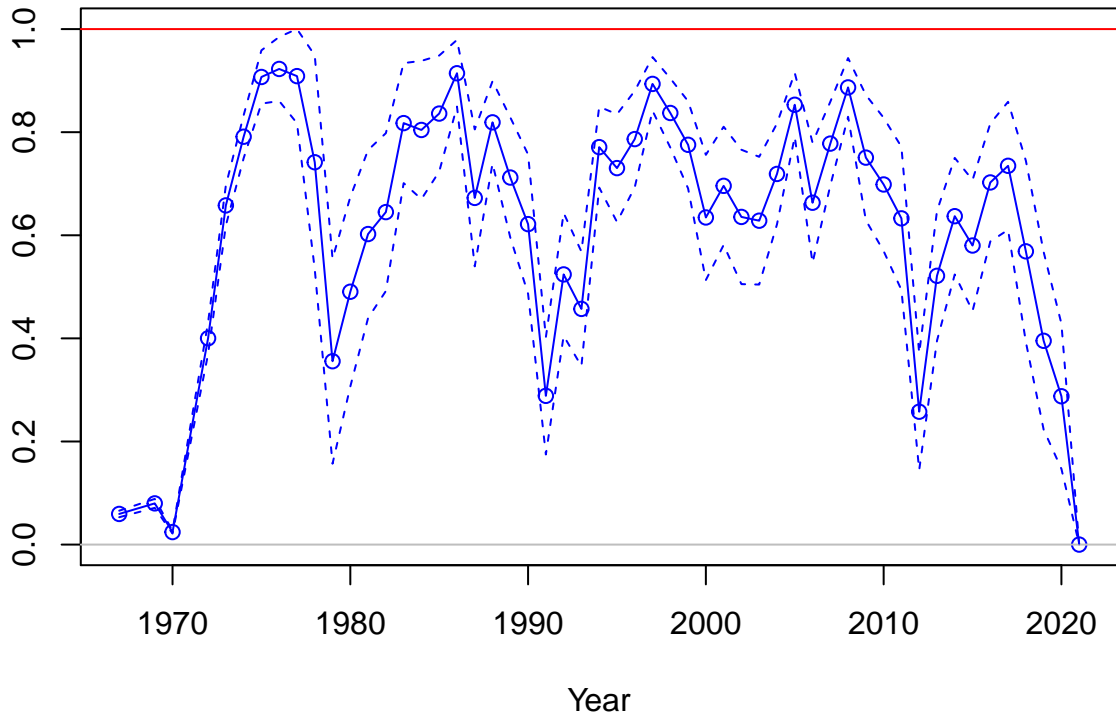


SPR

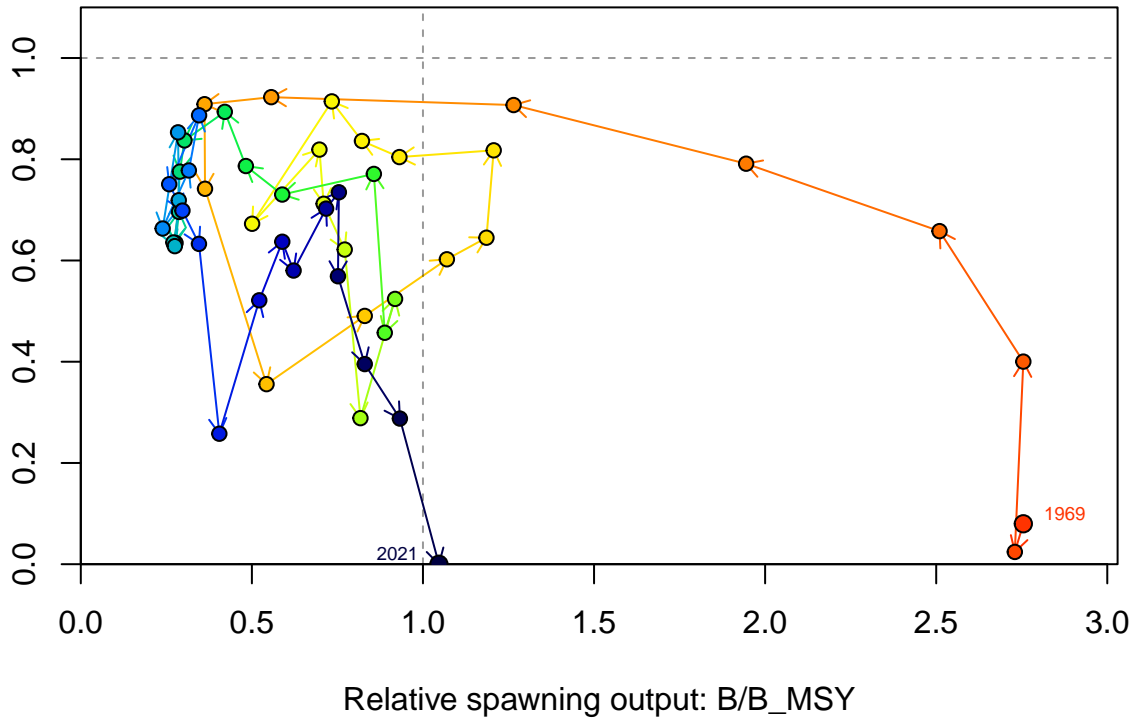




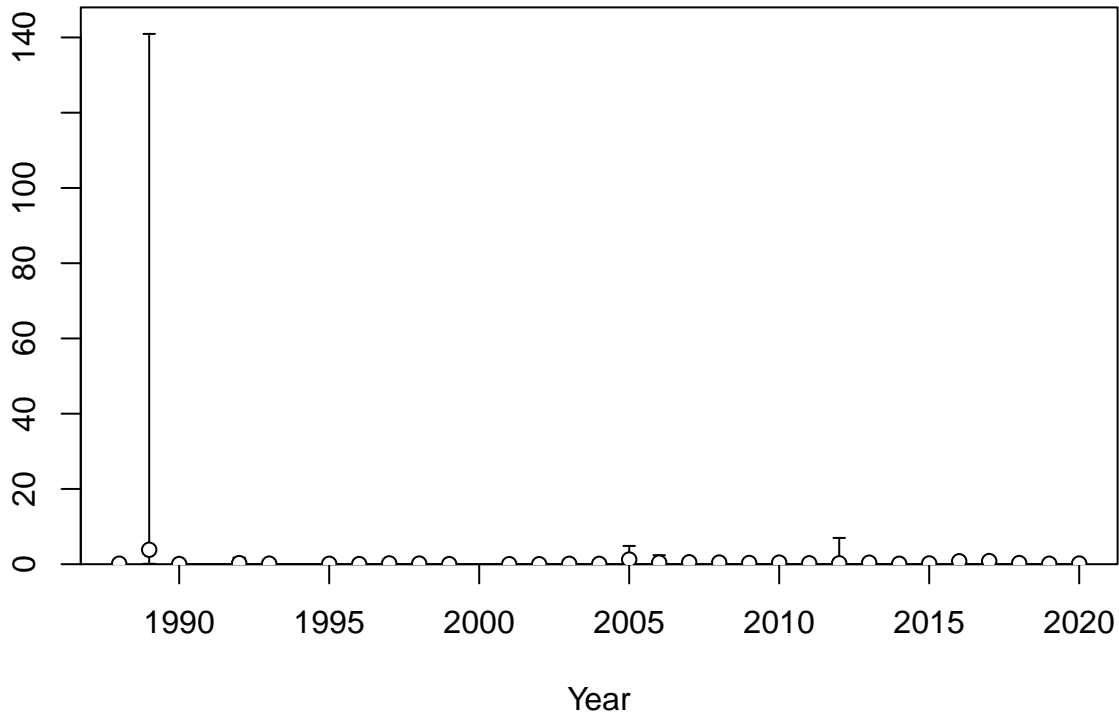
Fishing intensity: 1-SPR



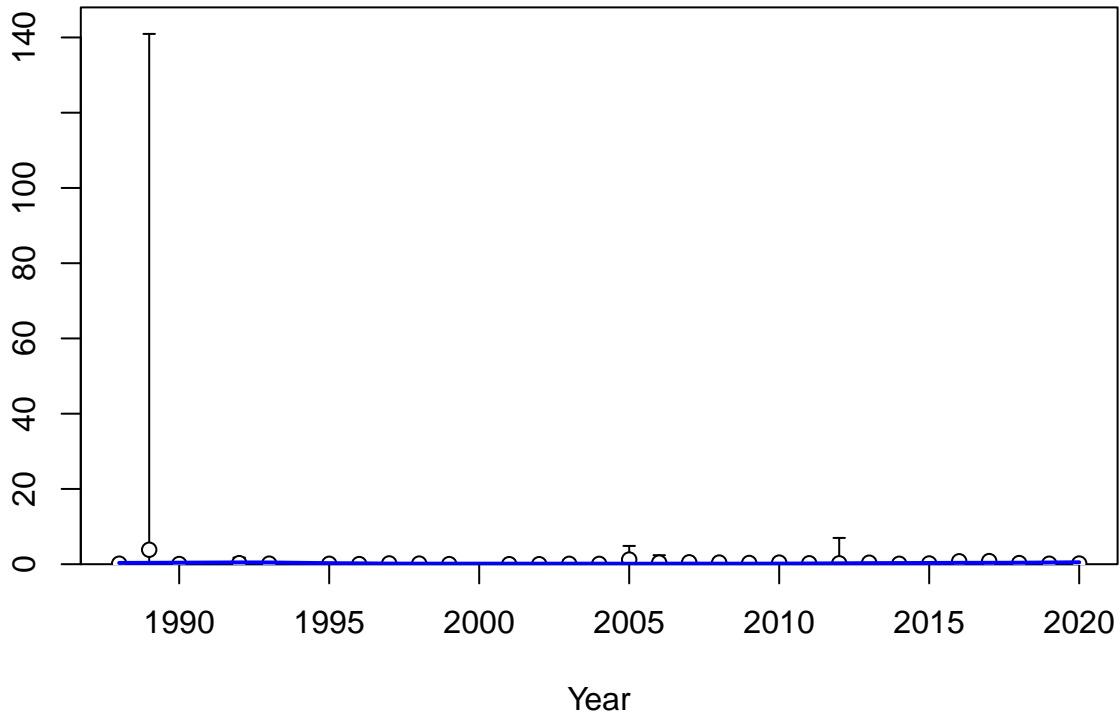
Fishing intensity: 1-SPR

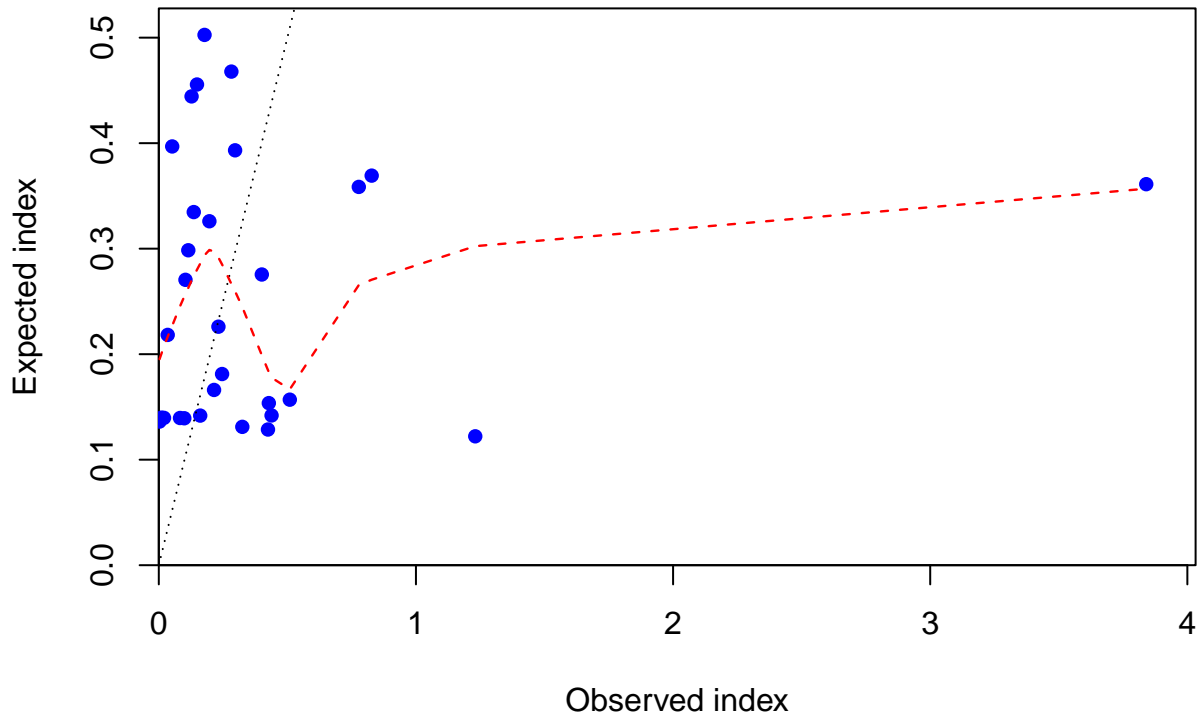


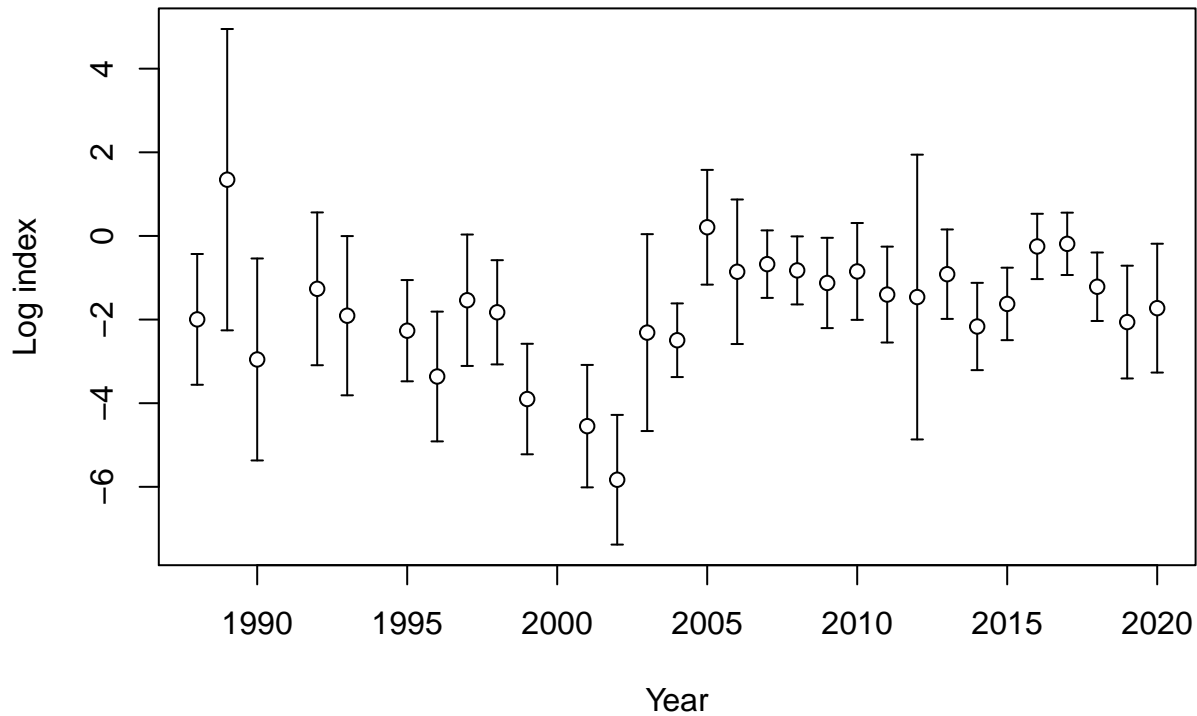
Index



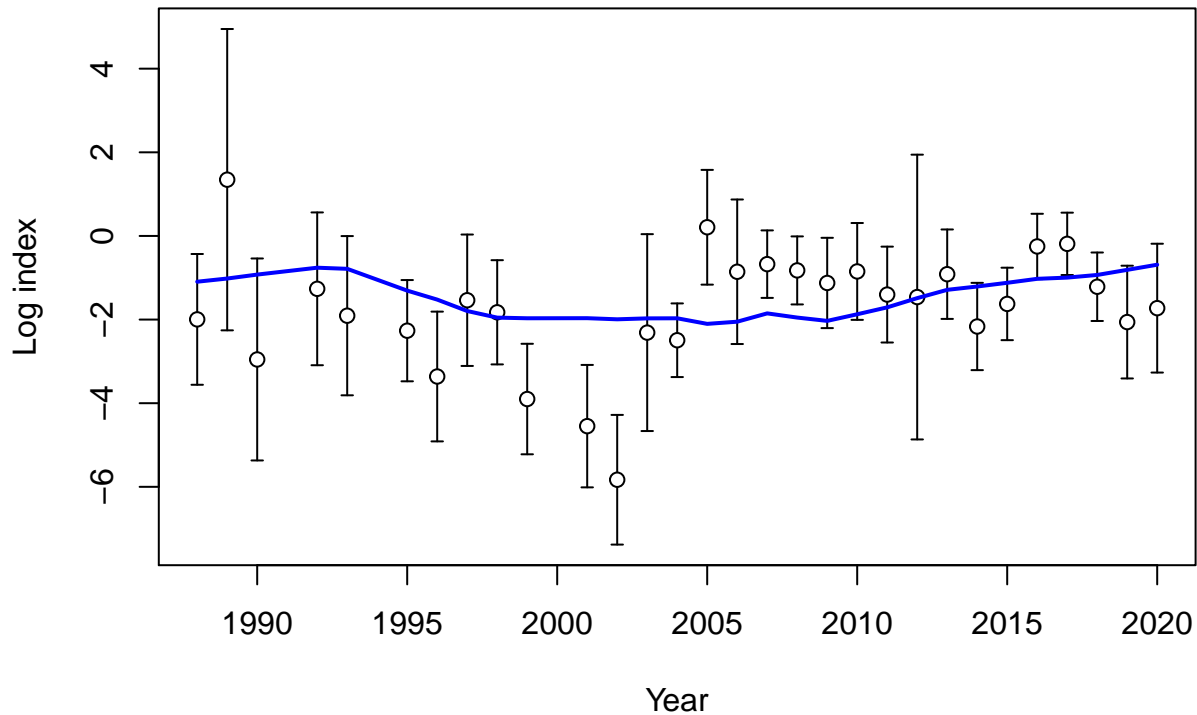
Index

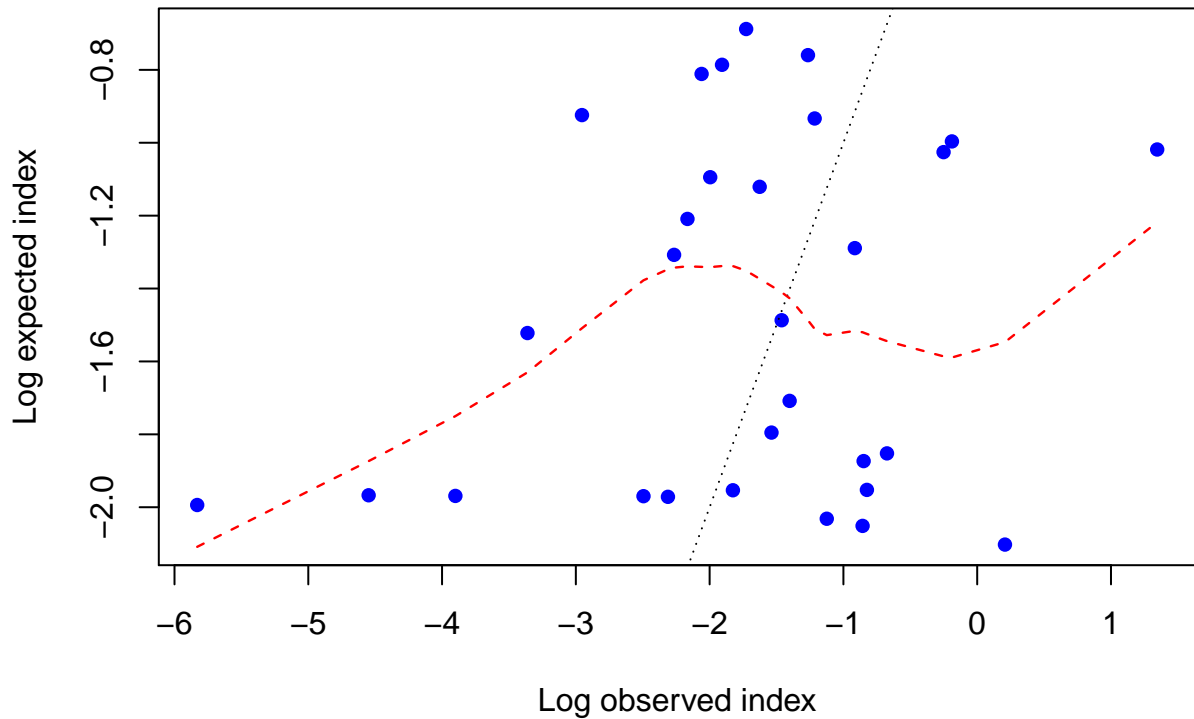




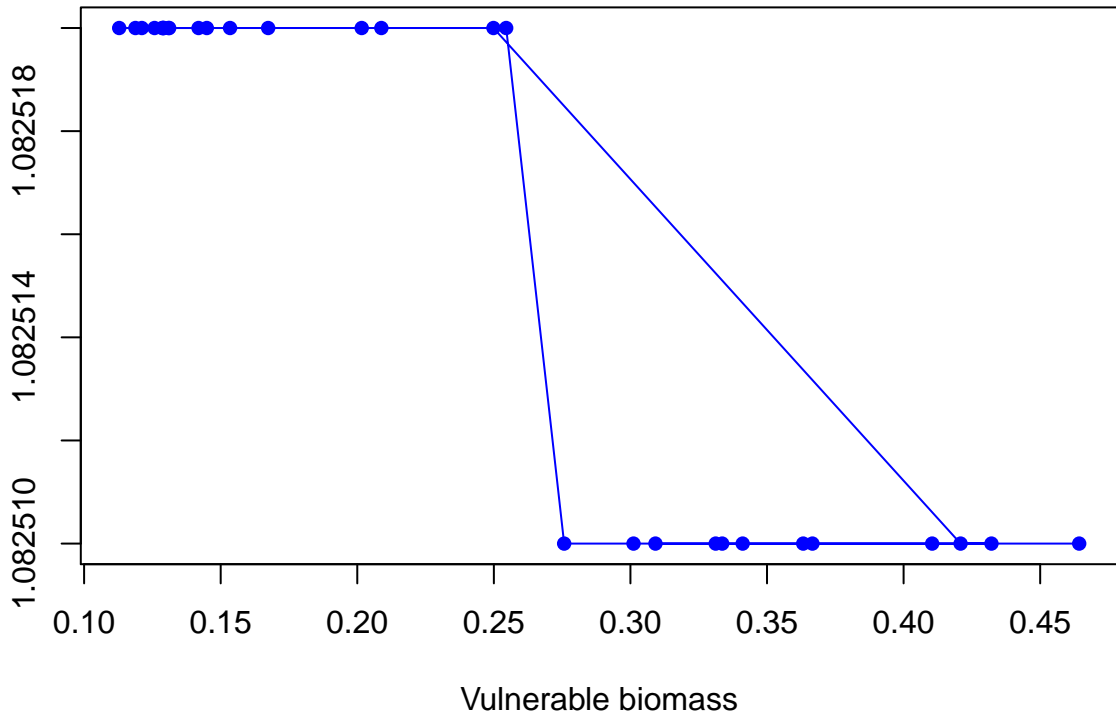


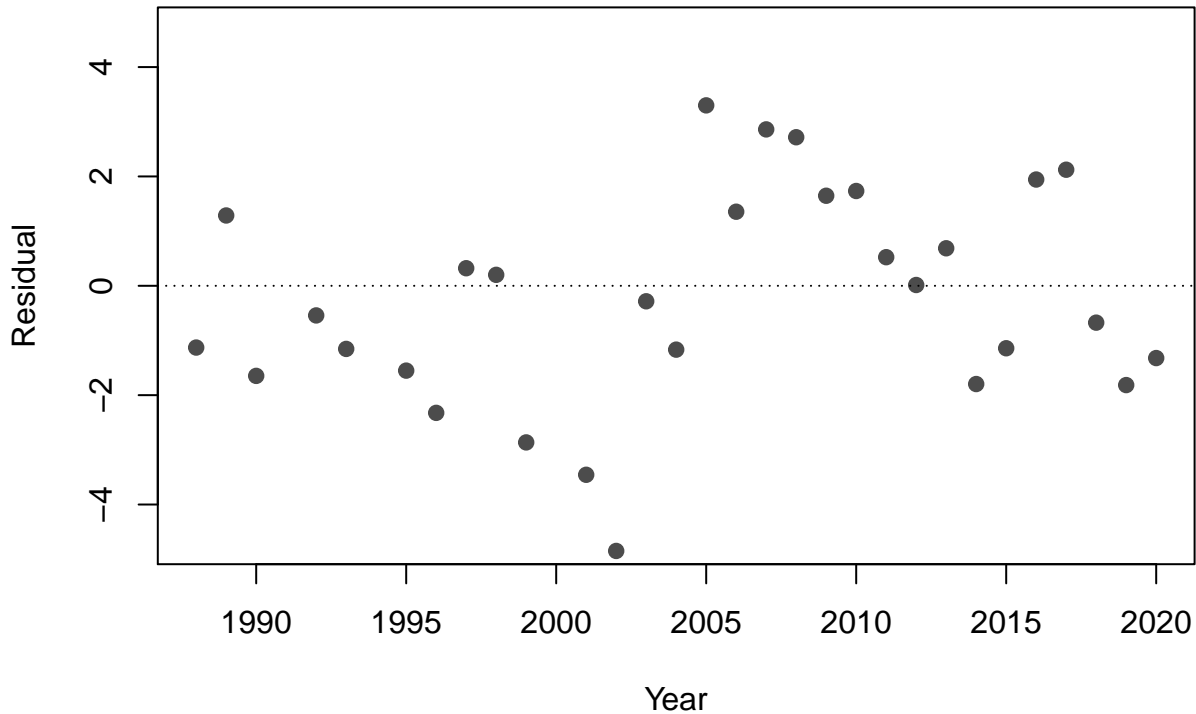




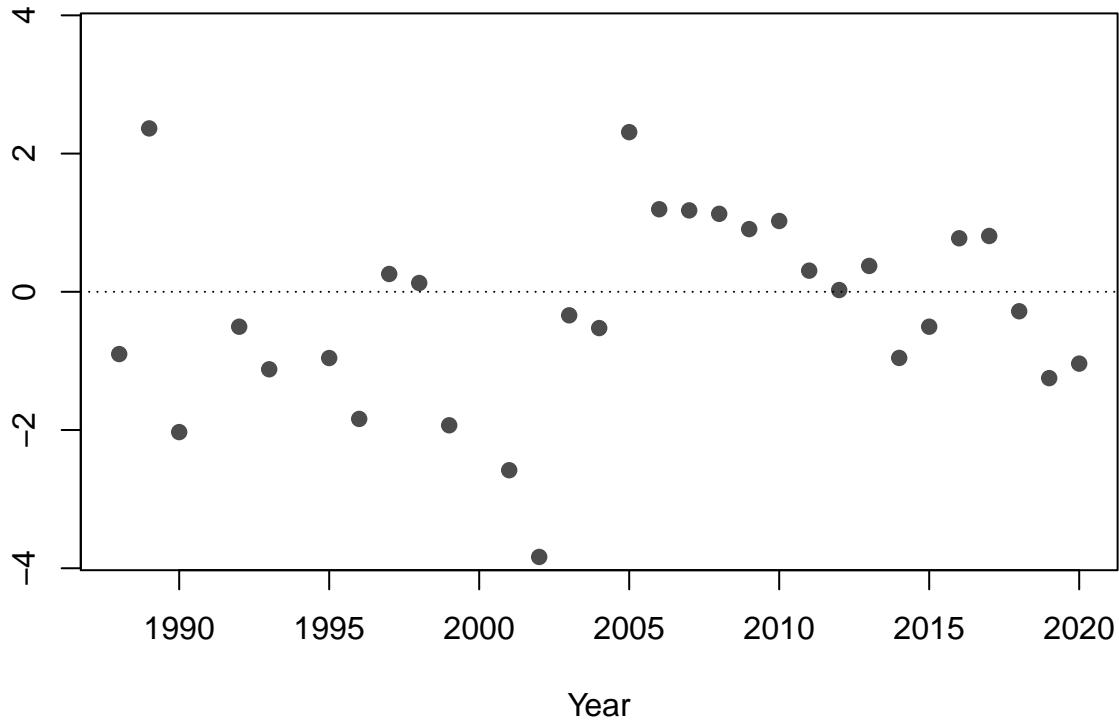


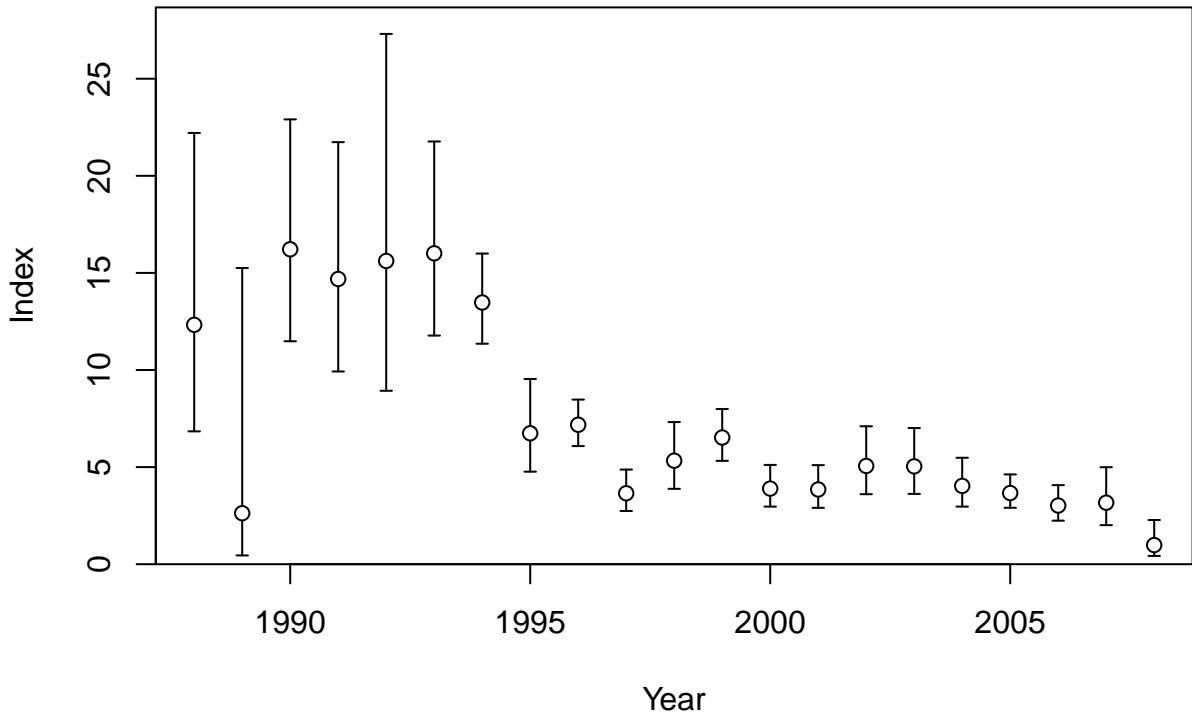
Effective catchability

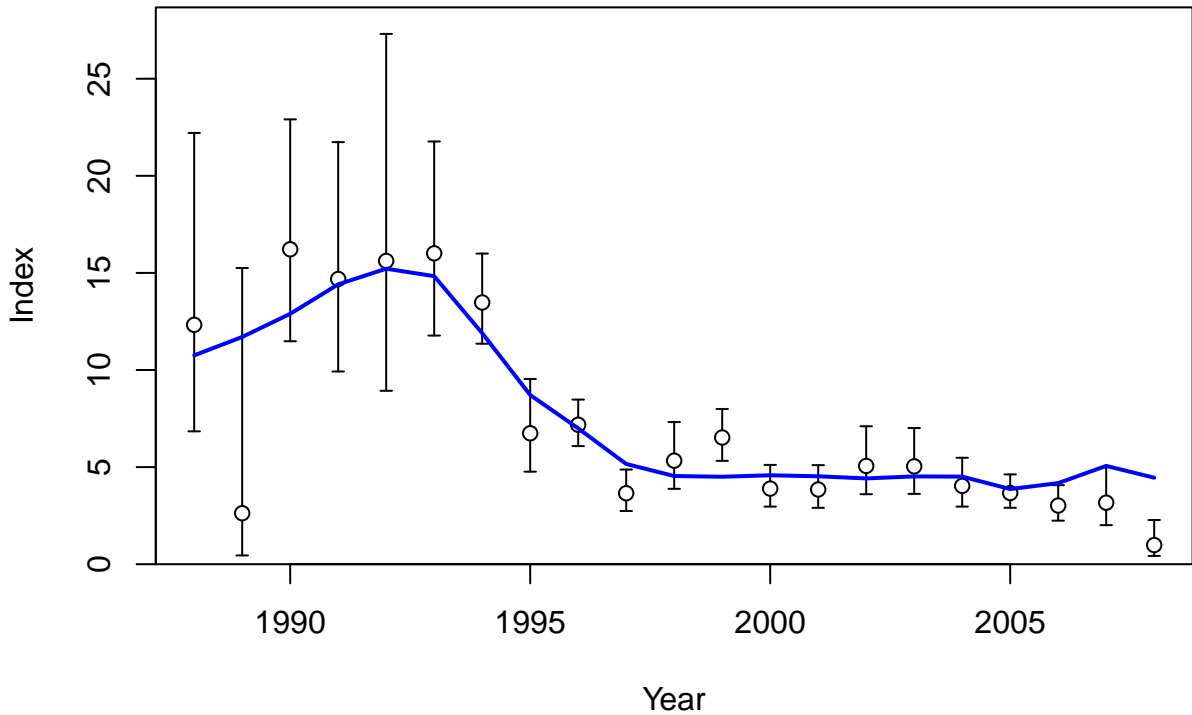


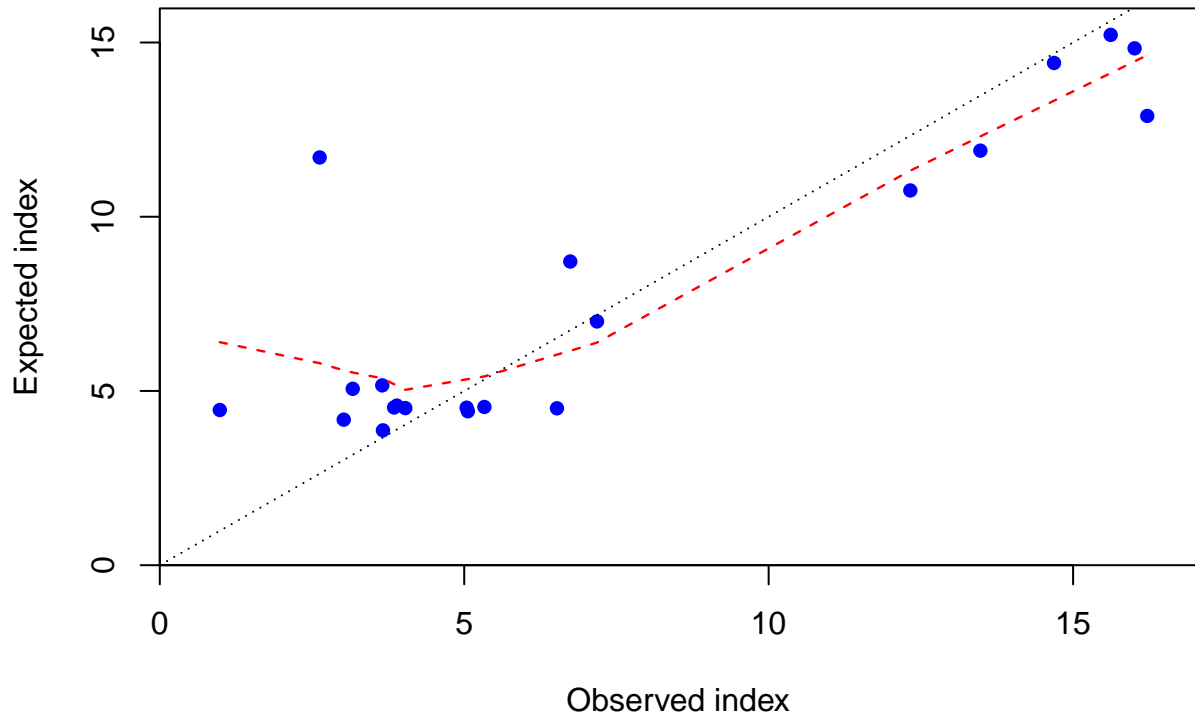


Deviation

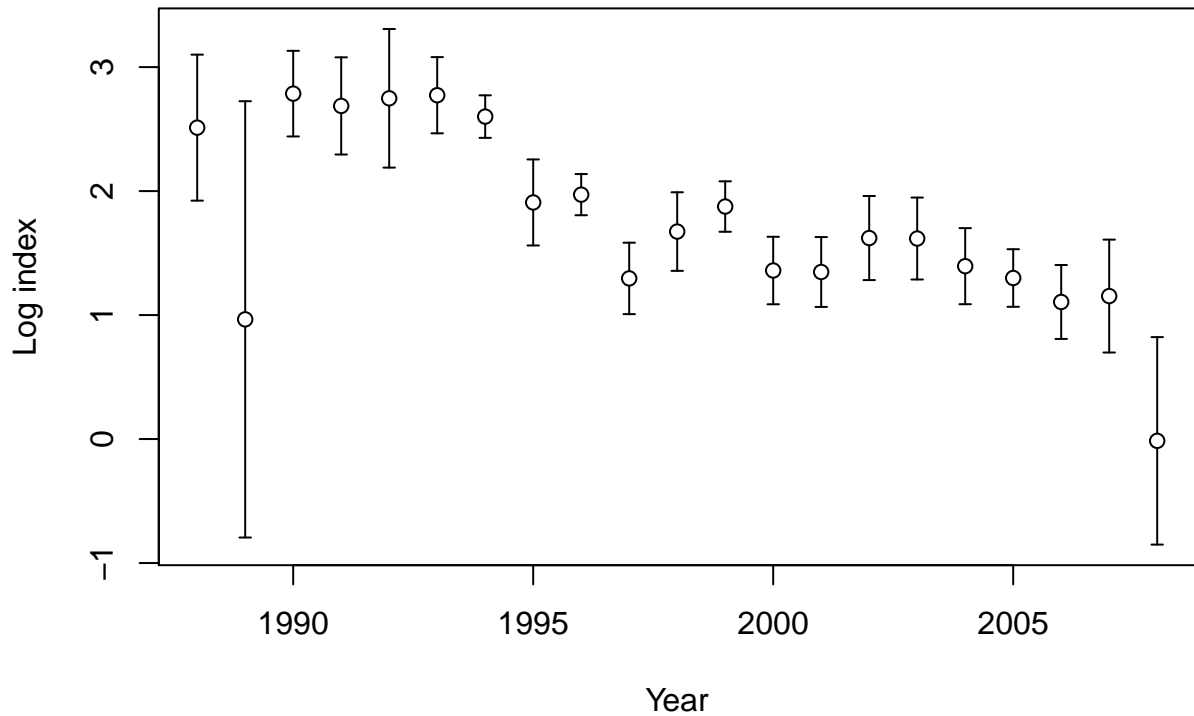


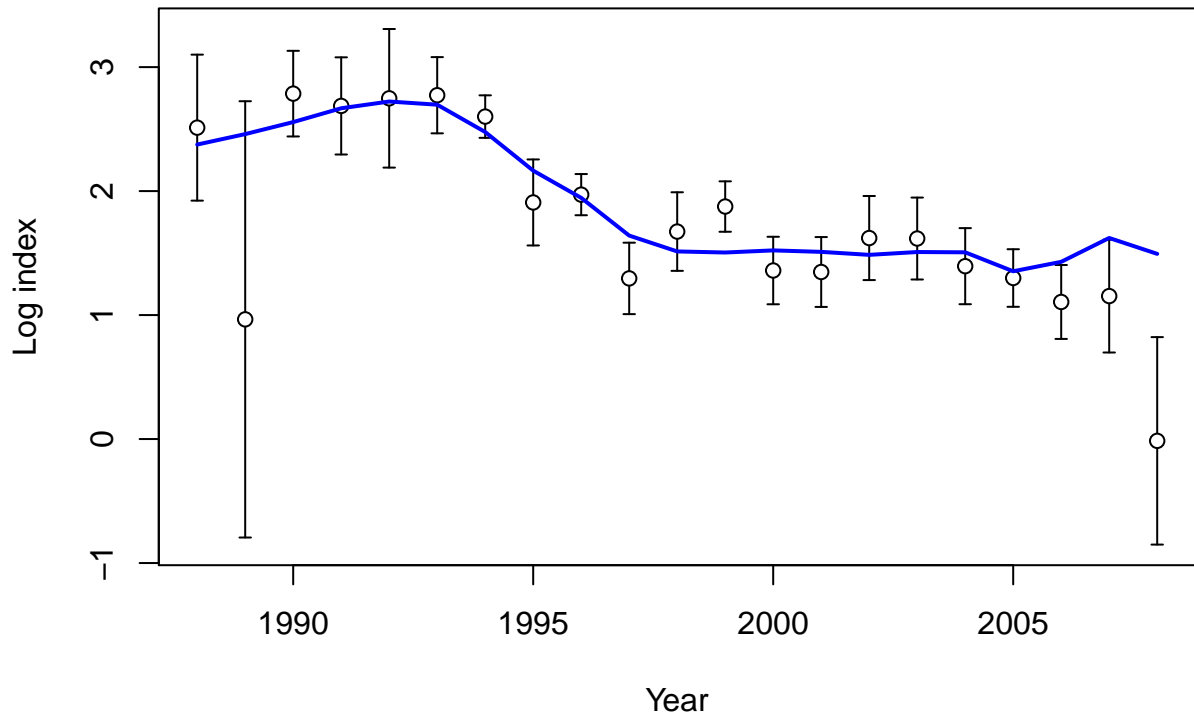


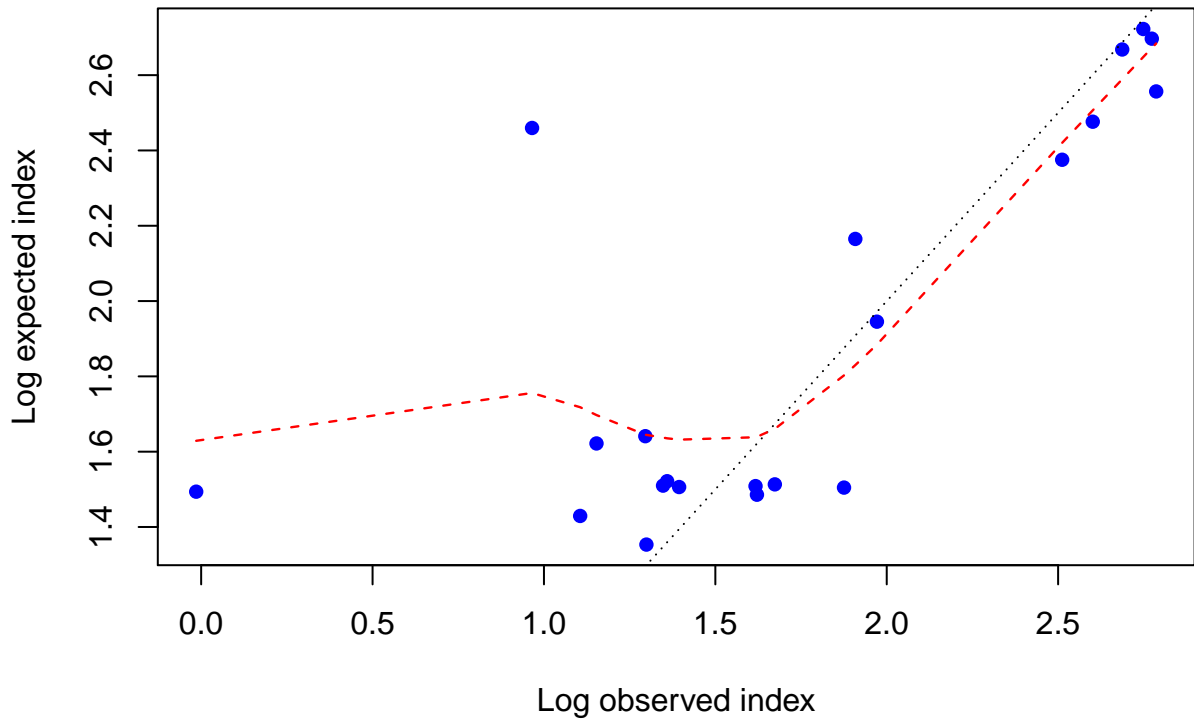




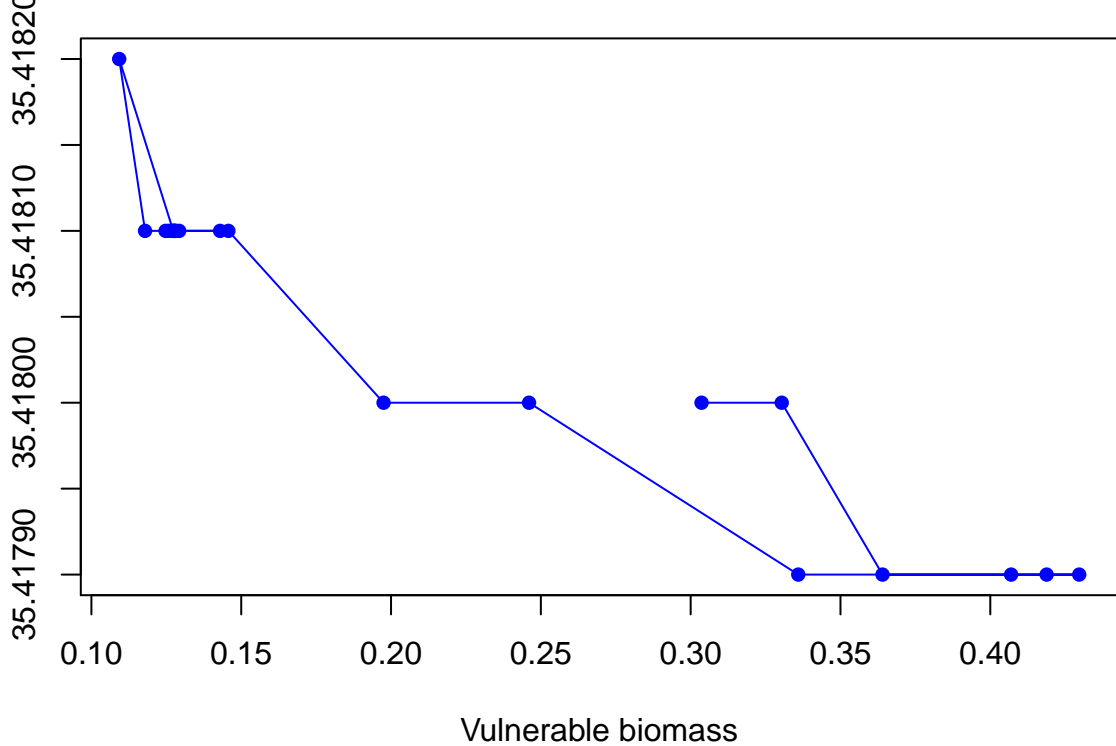


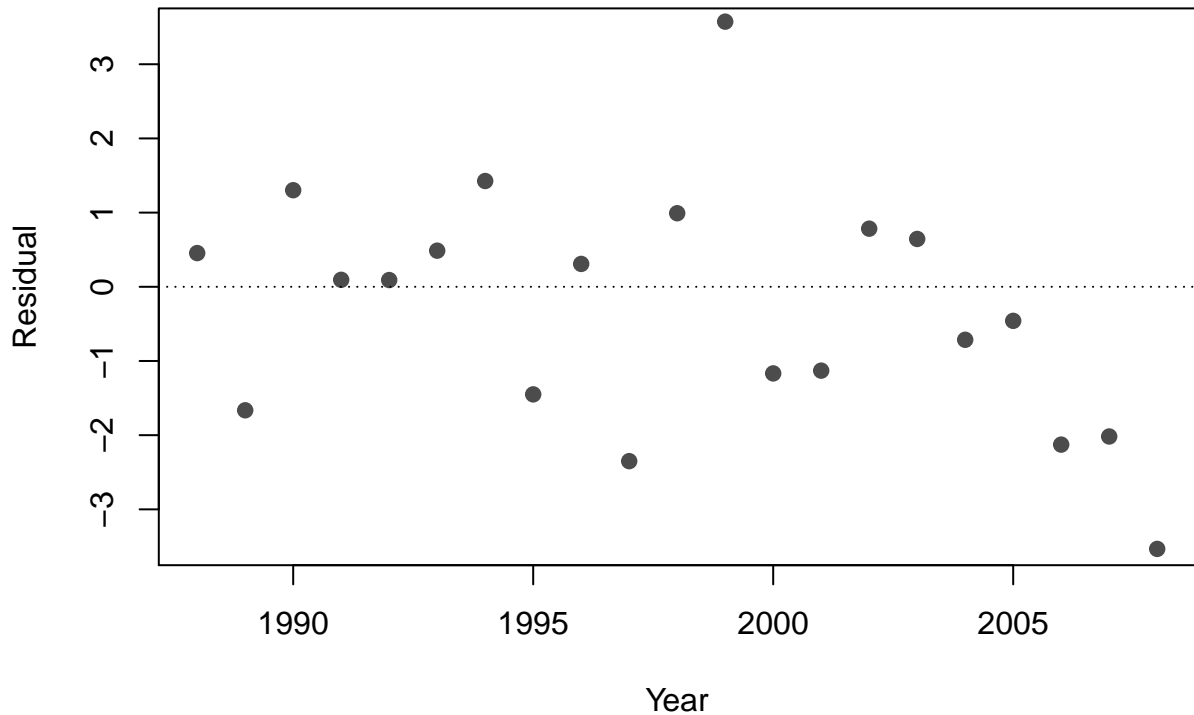




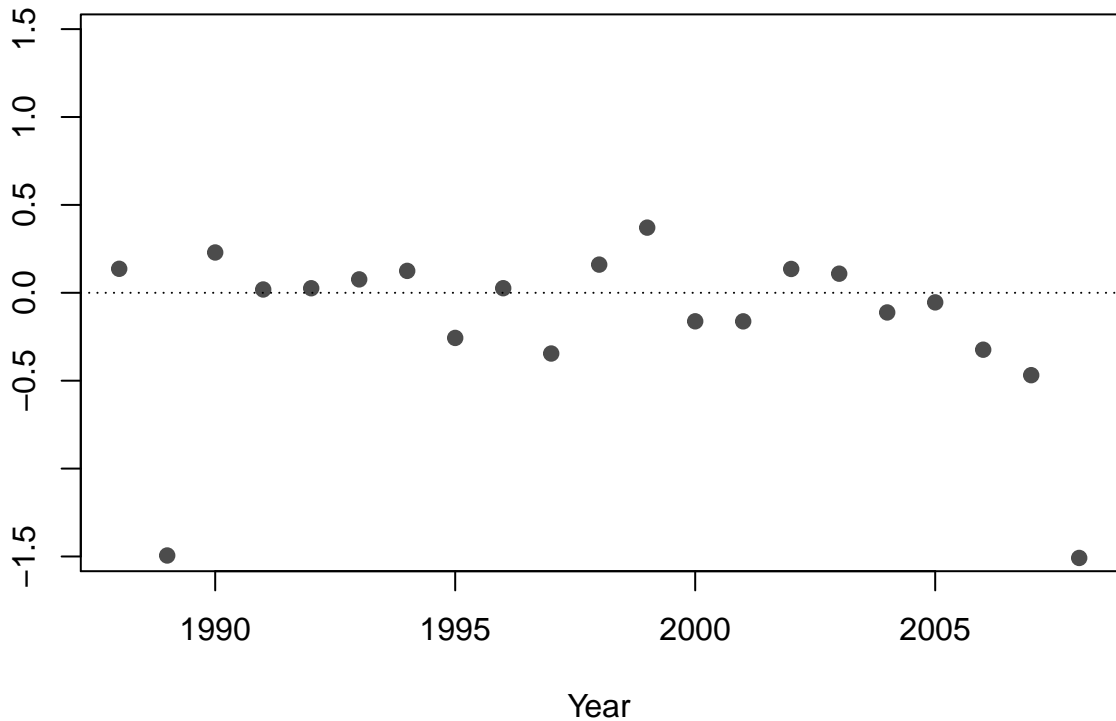


Effective catchability

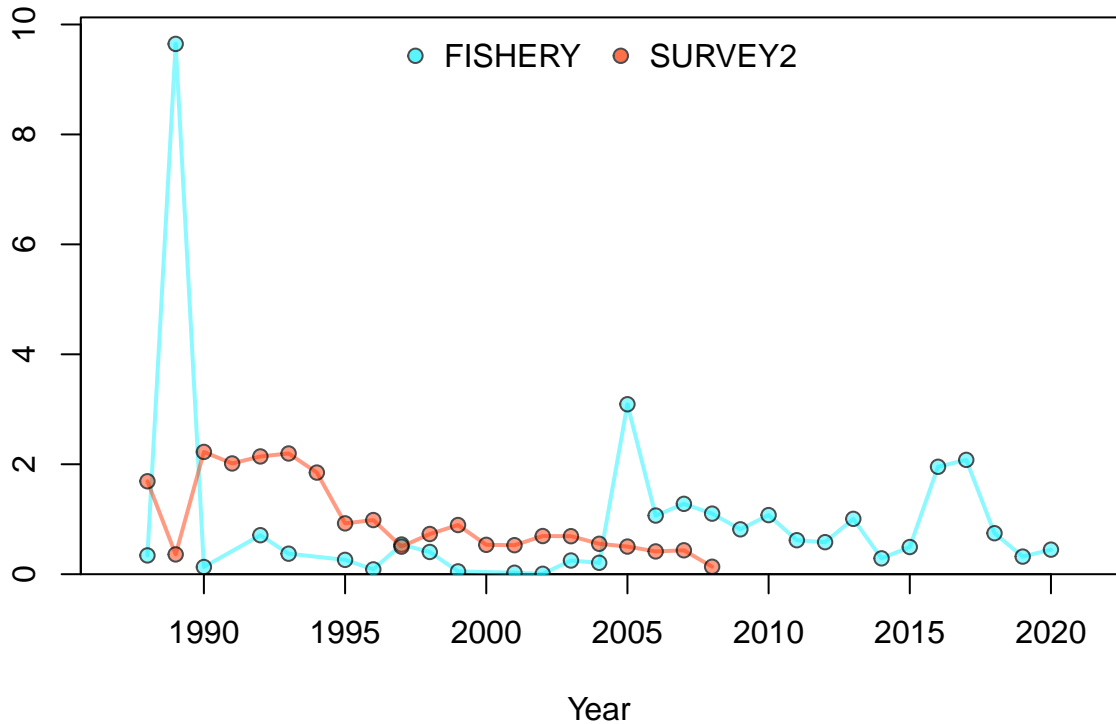


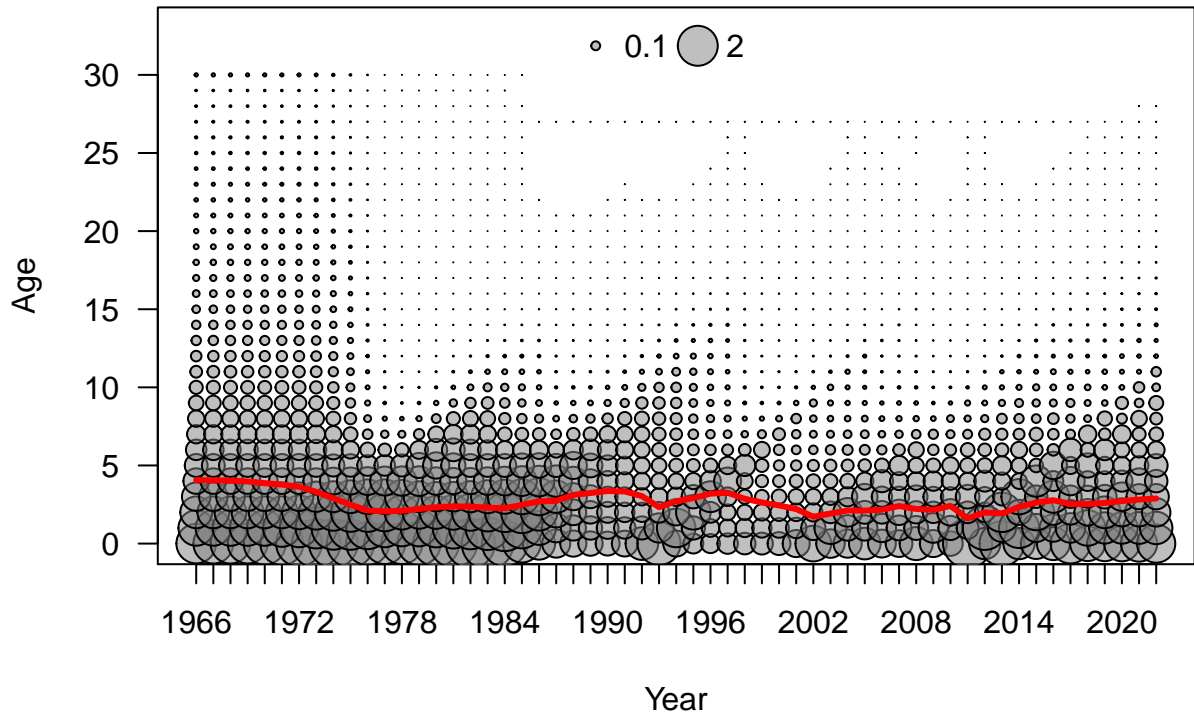


Deviation

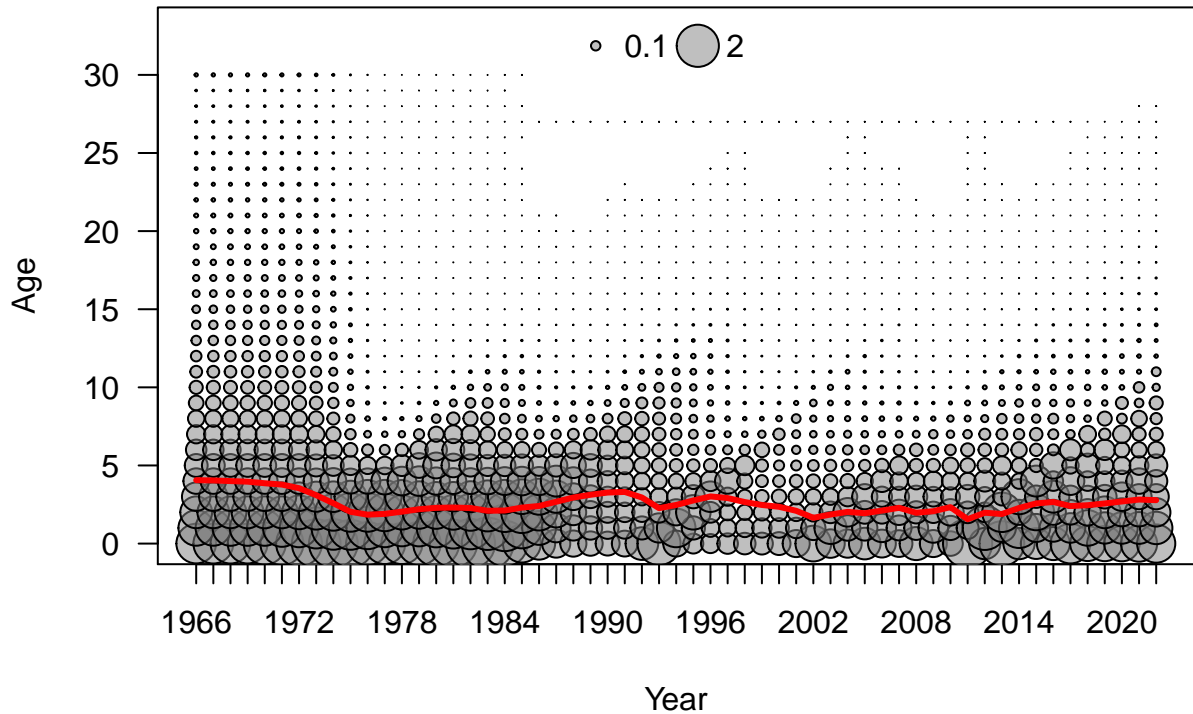


Standardized index









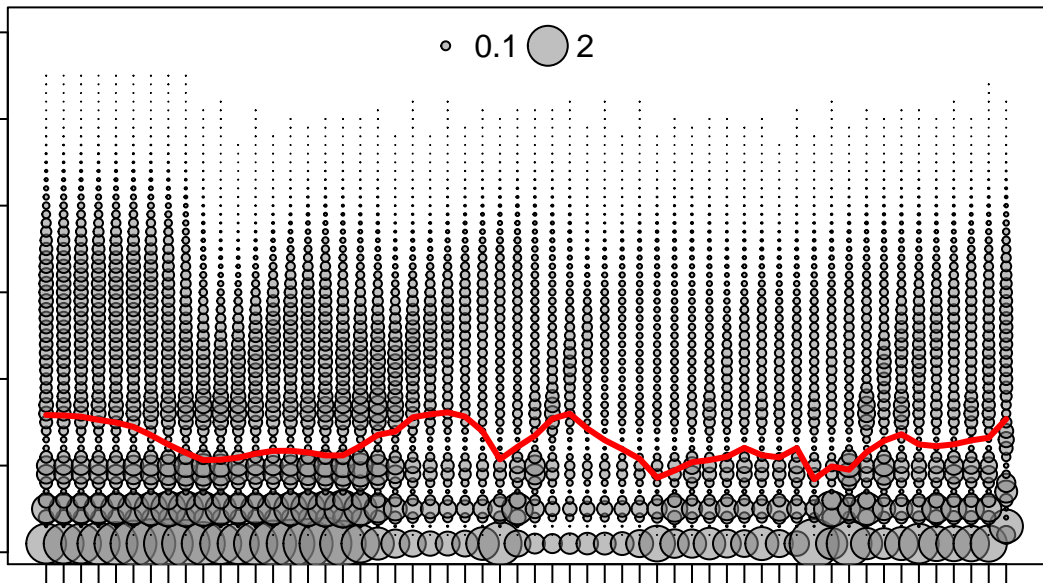
Length

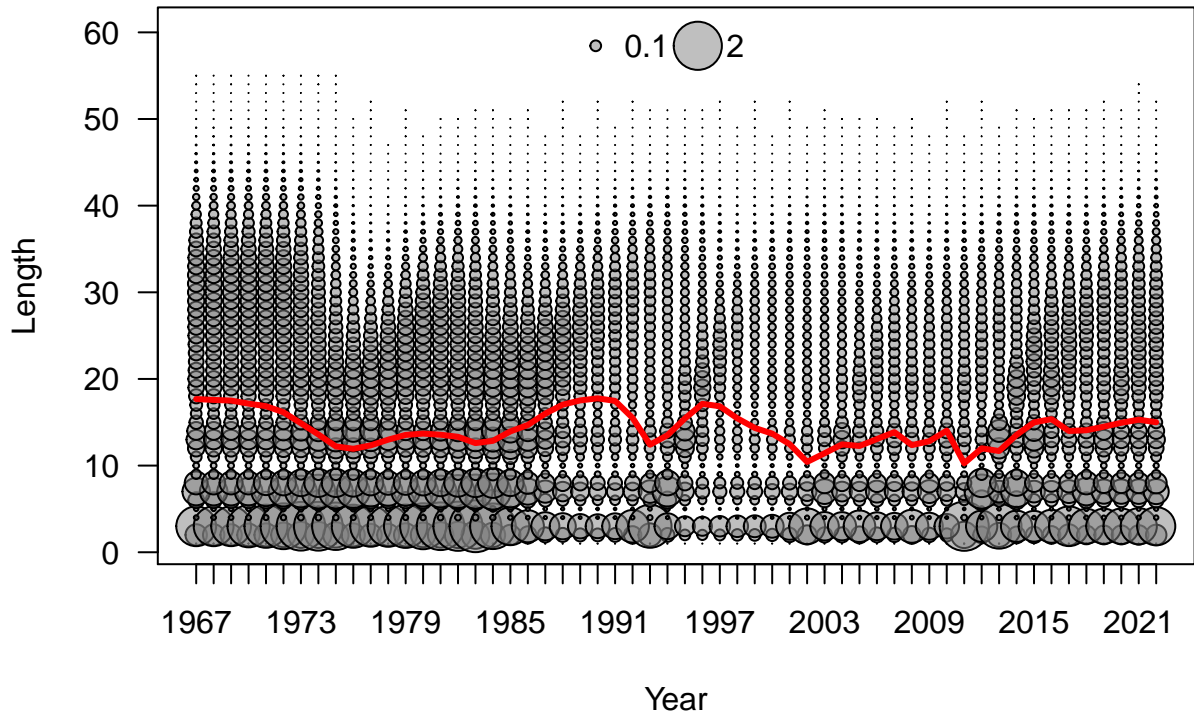
60  
50  
40  
30  
20  
10  
0

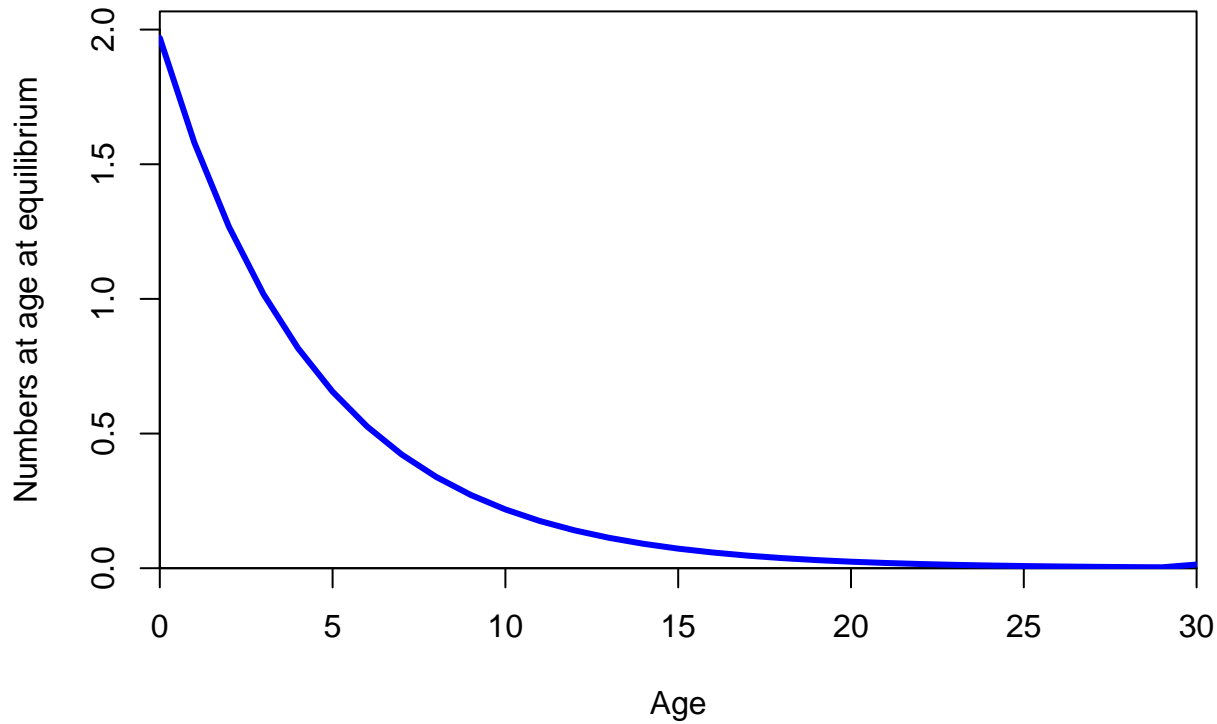
◦ 0.1    ● 2

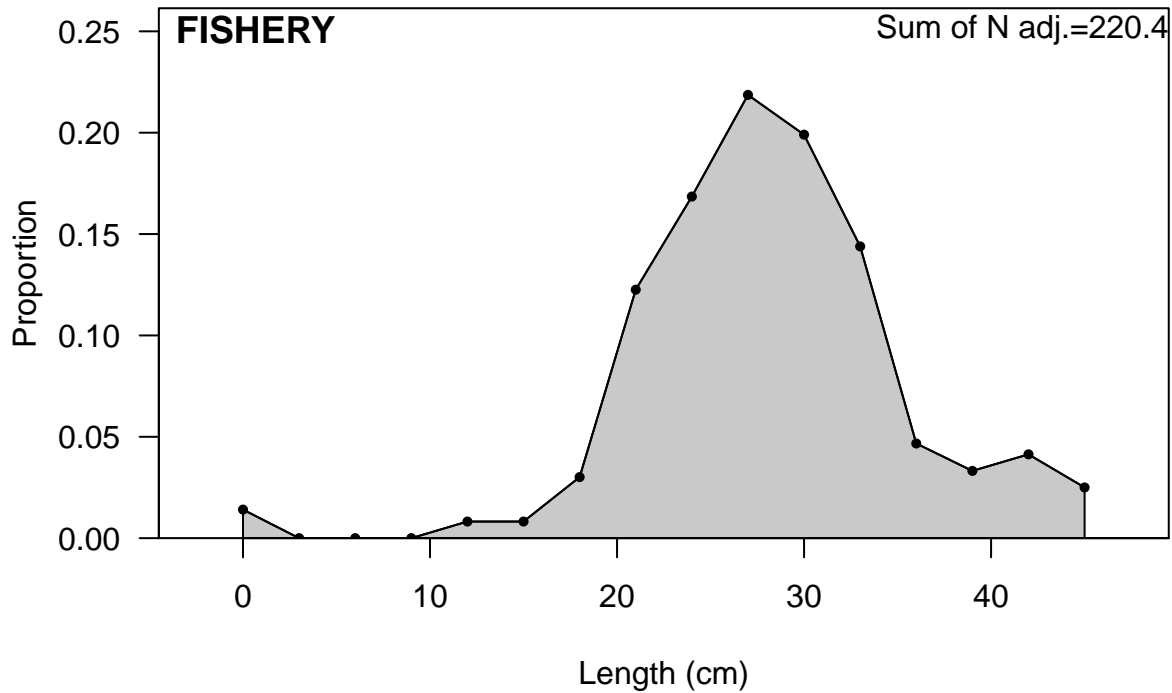
1967 1973 1979 1985 1991 1997 2003 2009 2015 2021

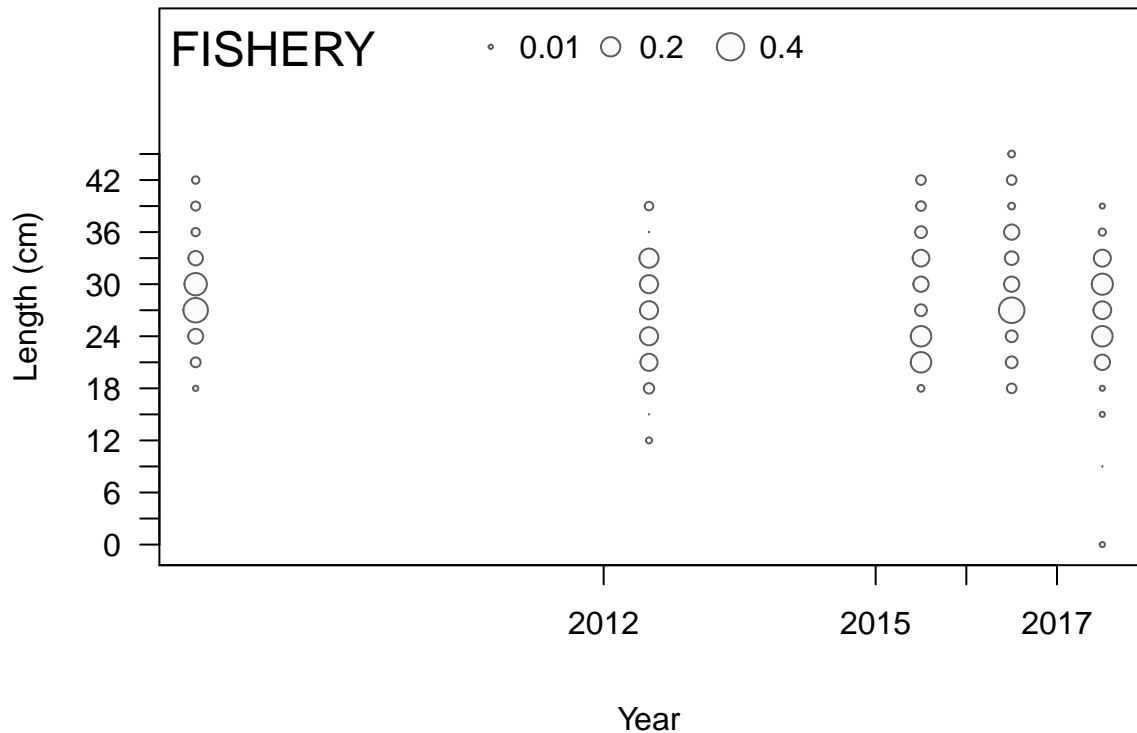
Year



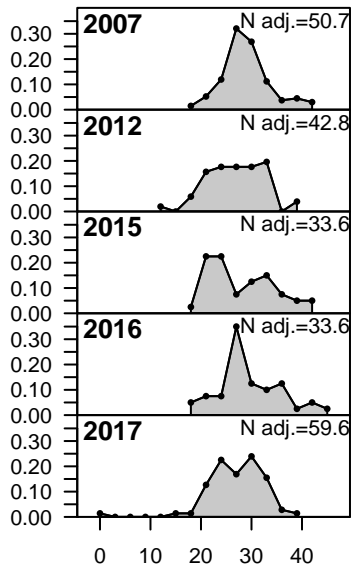




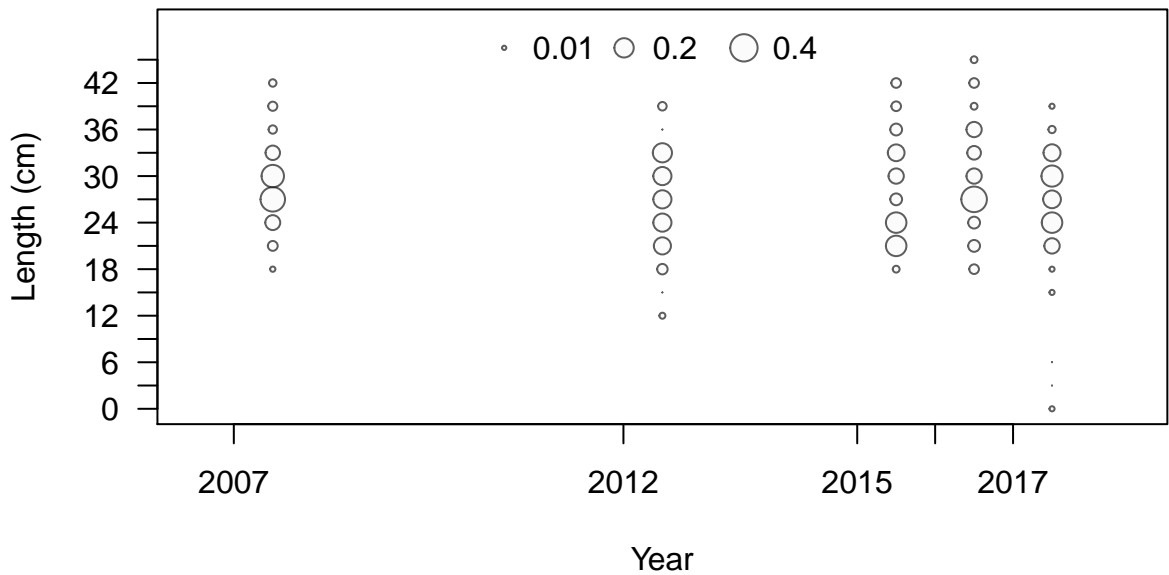




Proportion

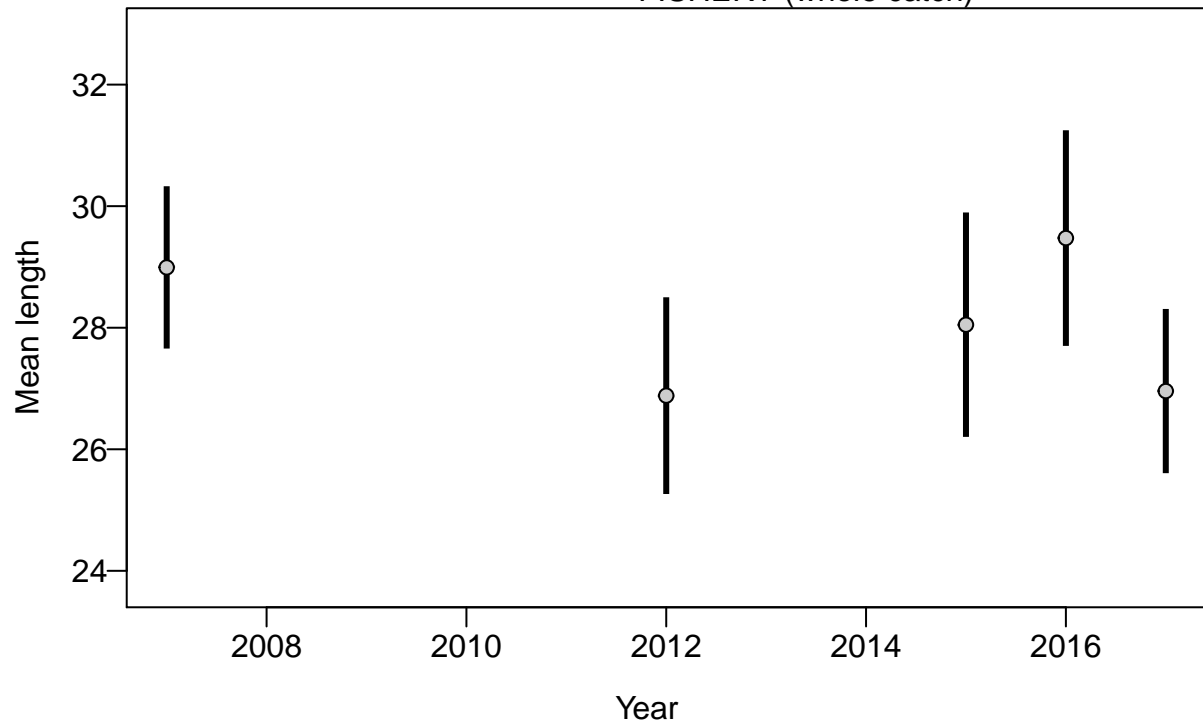


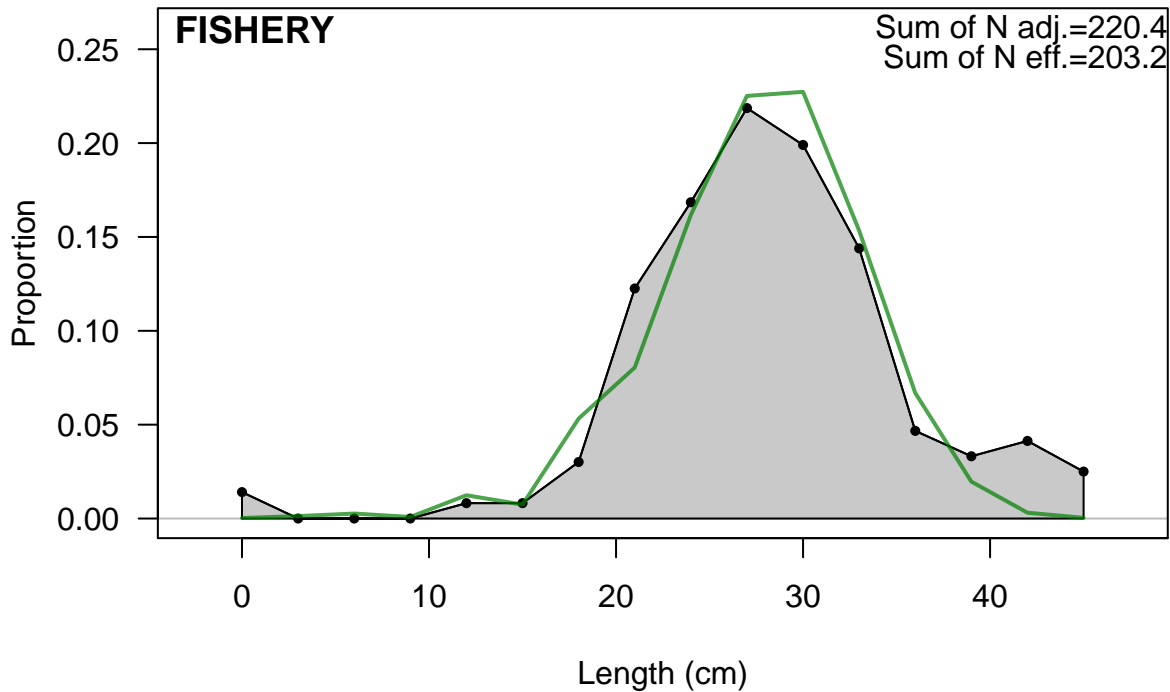
Length (cm)

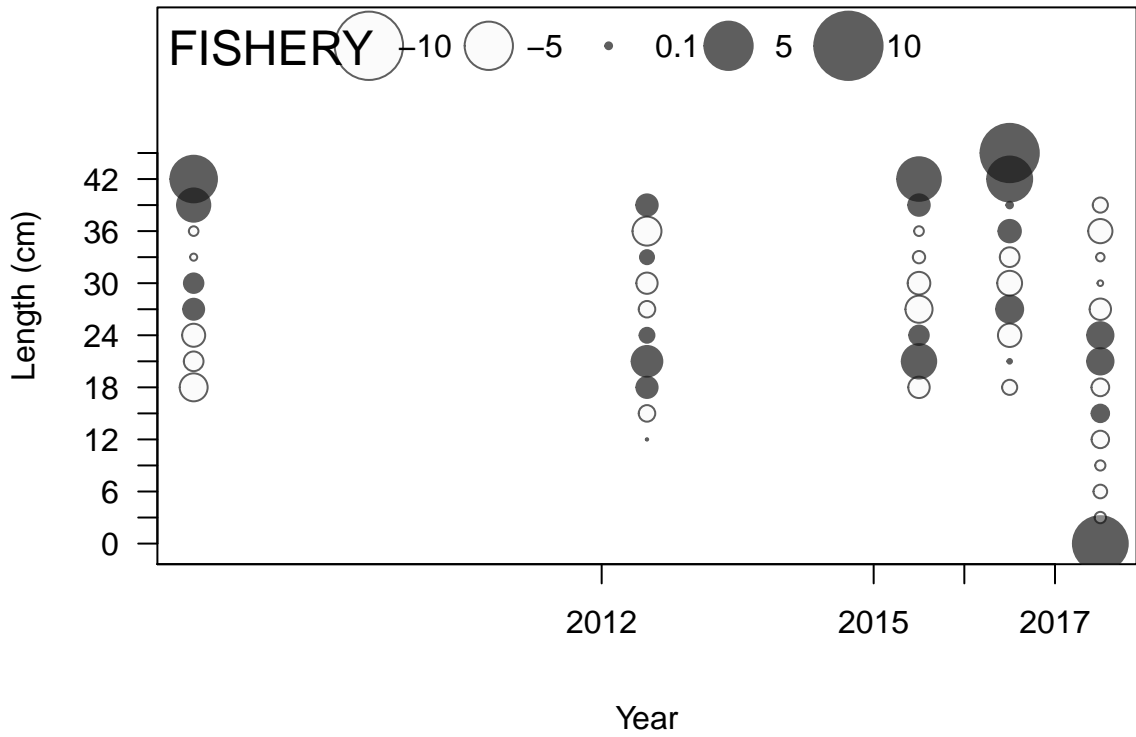




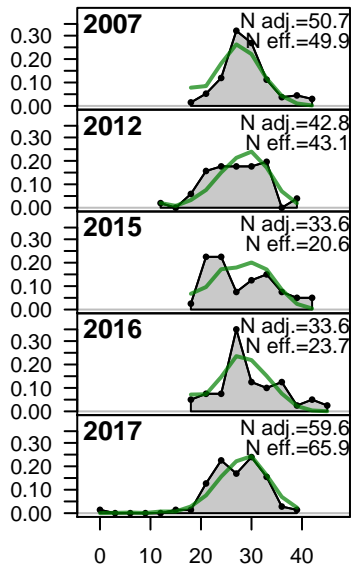
# FISHERY (whole catch)



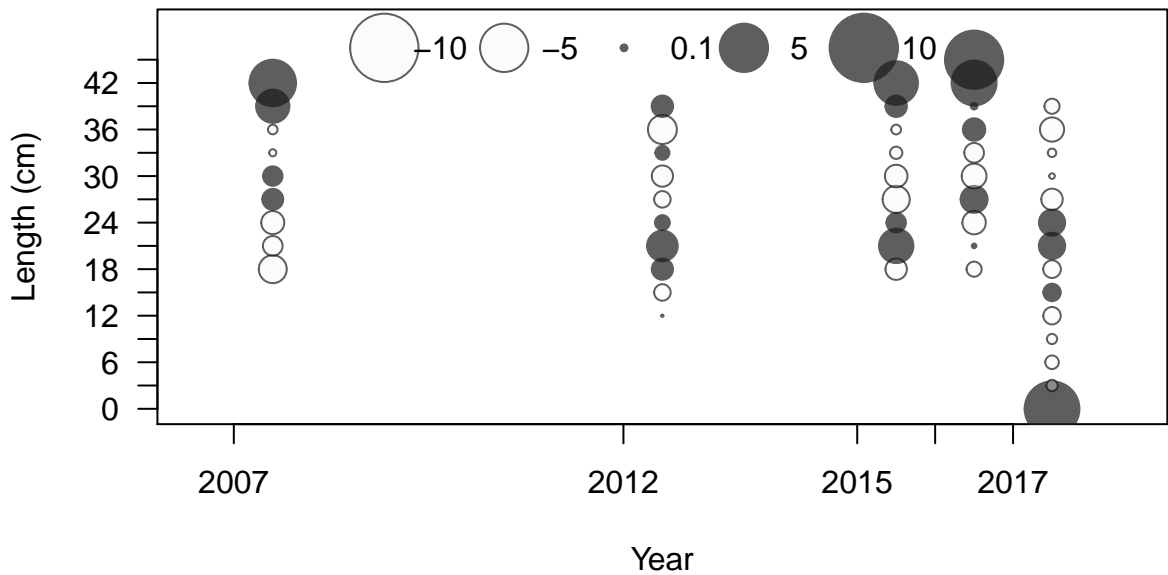




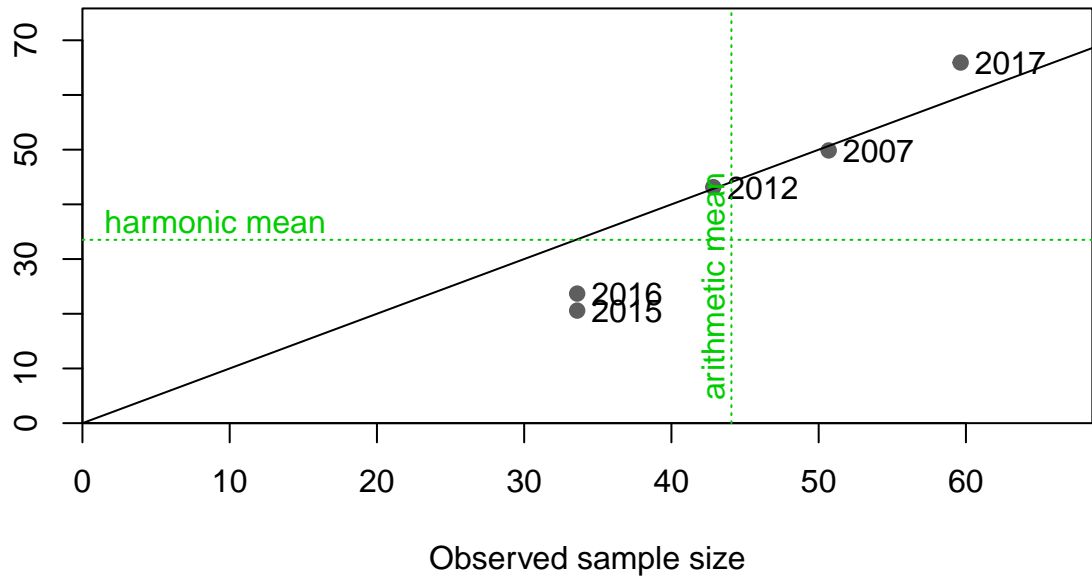
Proportion



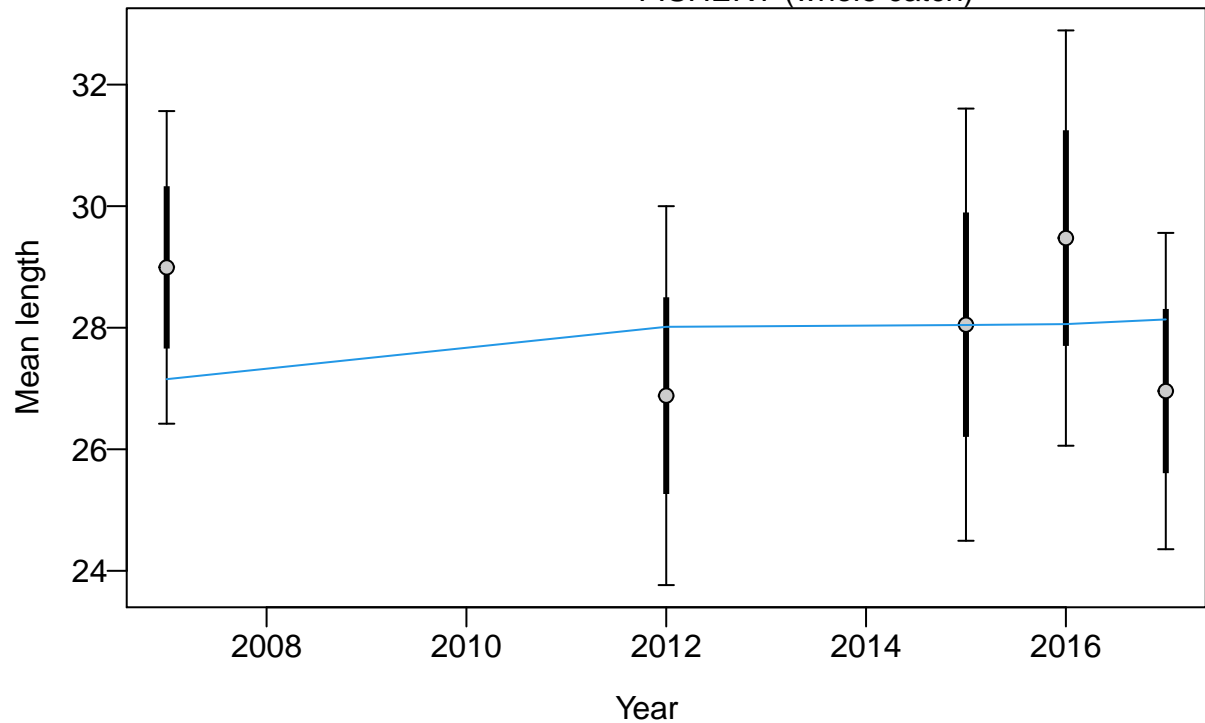
Length (cm)

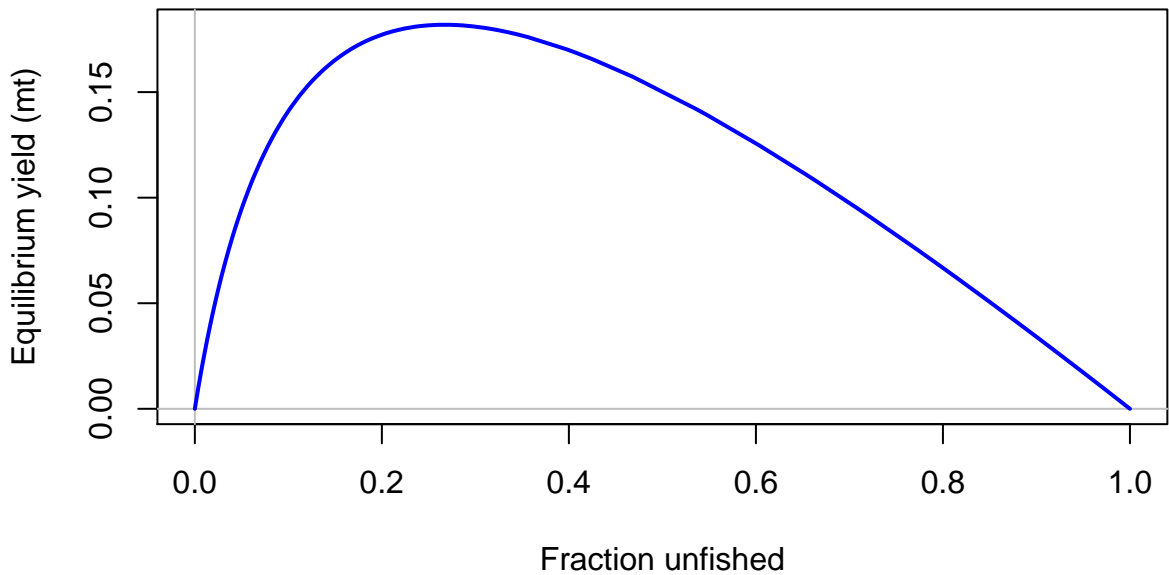


Effective sample size

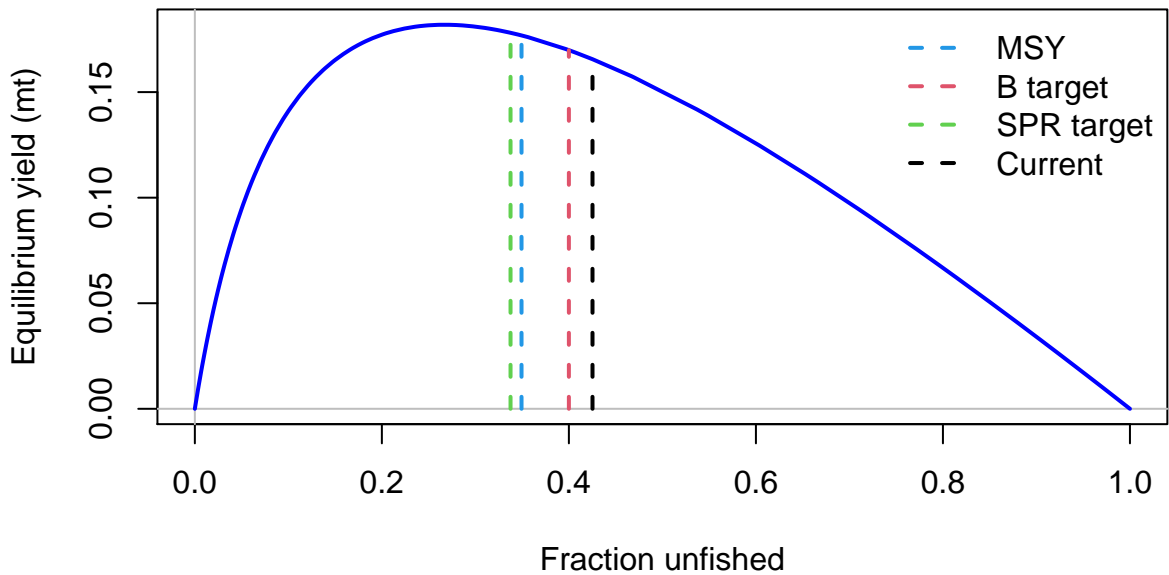


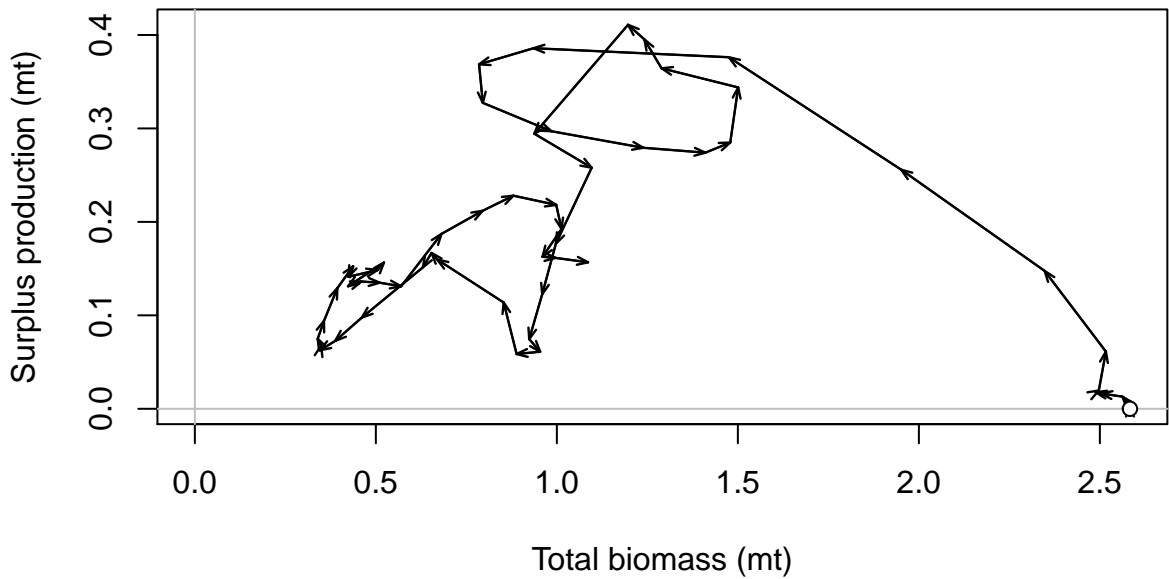
# FISHERY (whole catch)

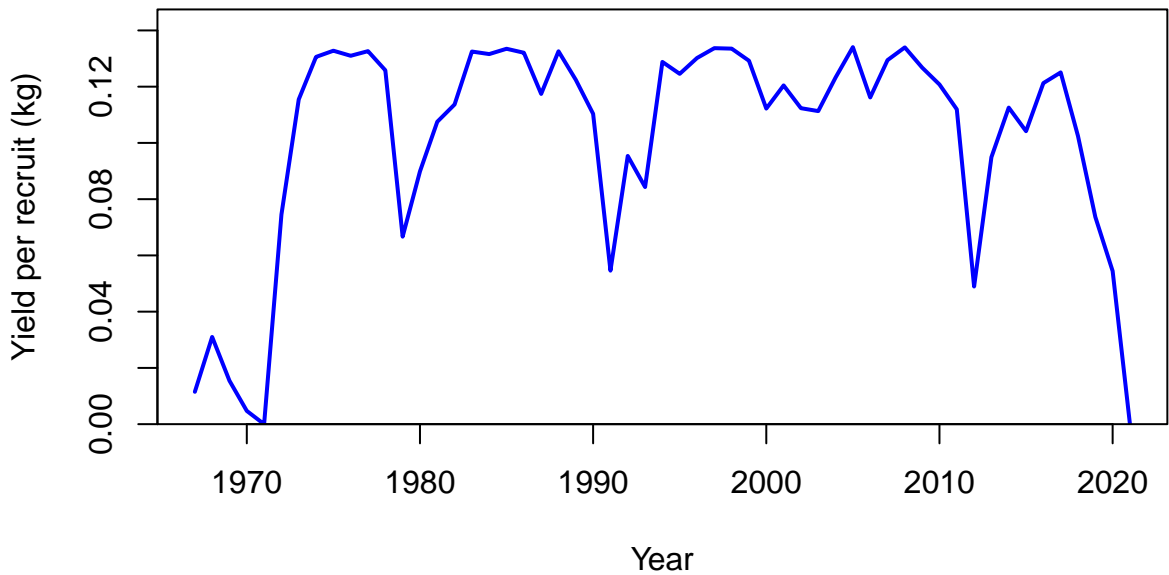


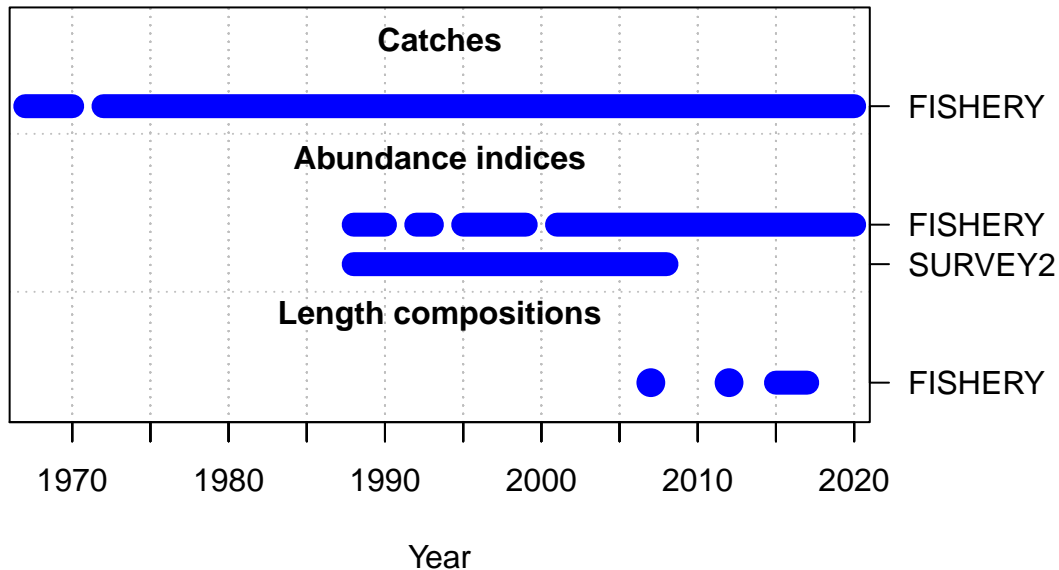


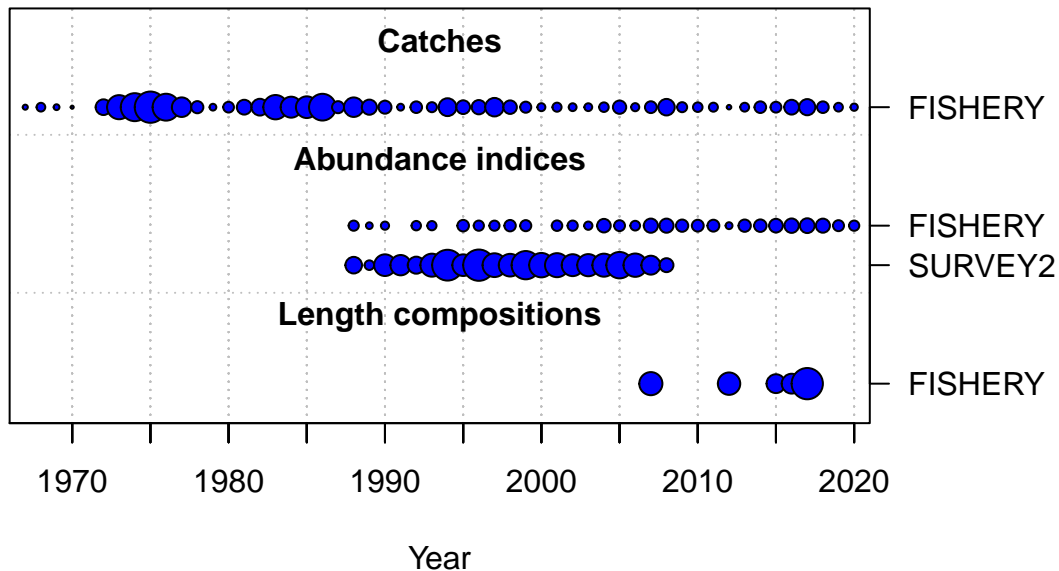




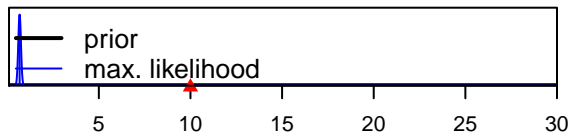




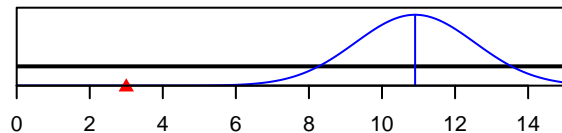




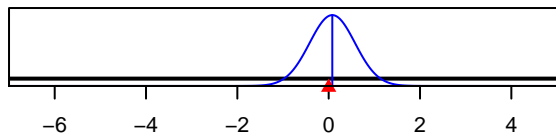
SR\_LN(R0)



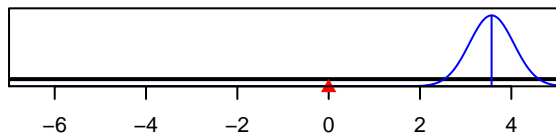
Size\_95%width\_FISHERY(1)



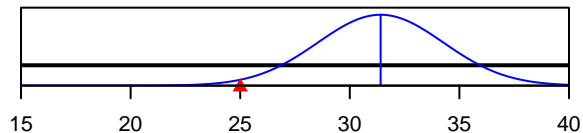
LnQ\_base\_FISHERY(1)



LnQ\_base\_SURVEY2(2)



Size\_inflection\_FISHERY(1)



Parameter value