

Plots created using the 'r4ss' package in R

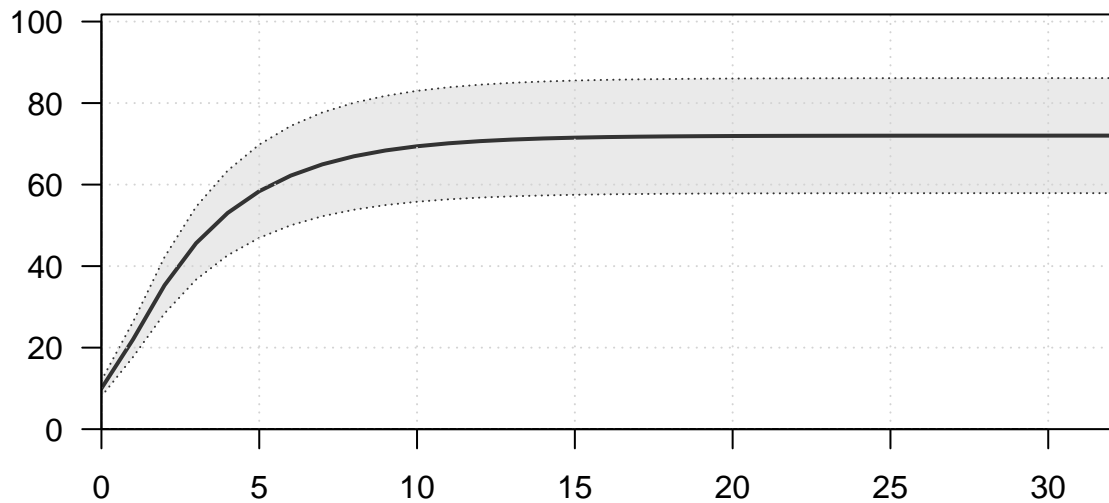
Stock Synthesis version: 3.30.19.0

StartTime: Fri Jun 10 12:16:33 2022

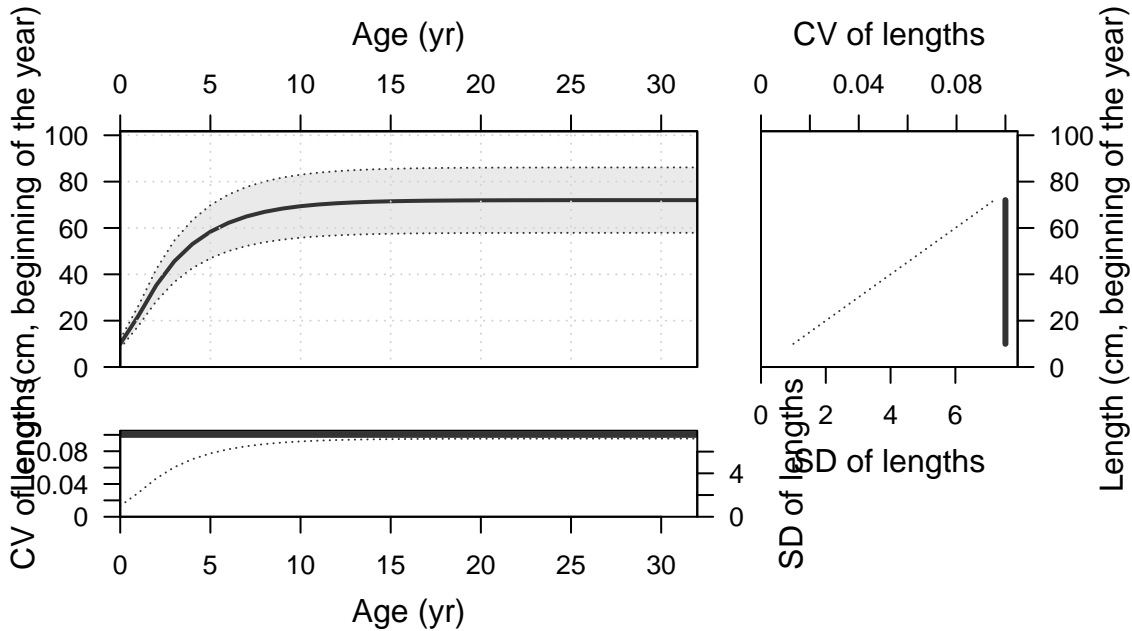
Data\_File: data.ss

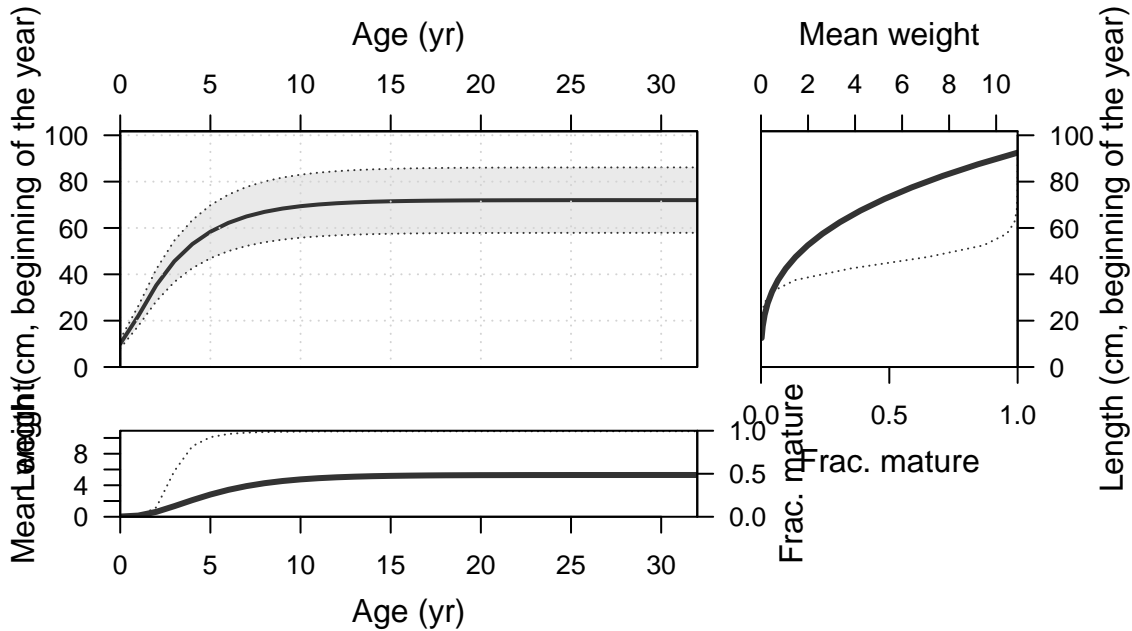
Control\_File: control.ss

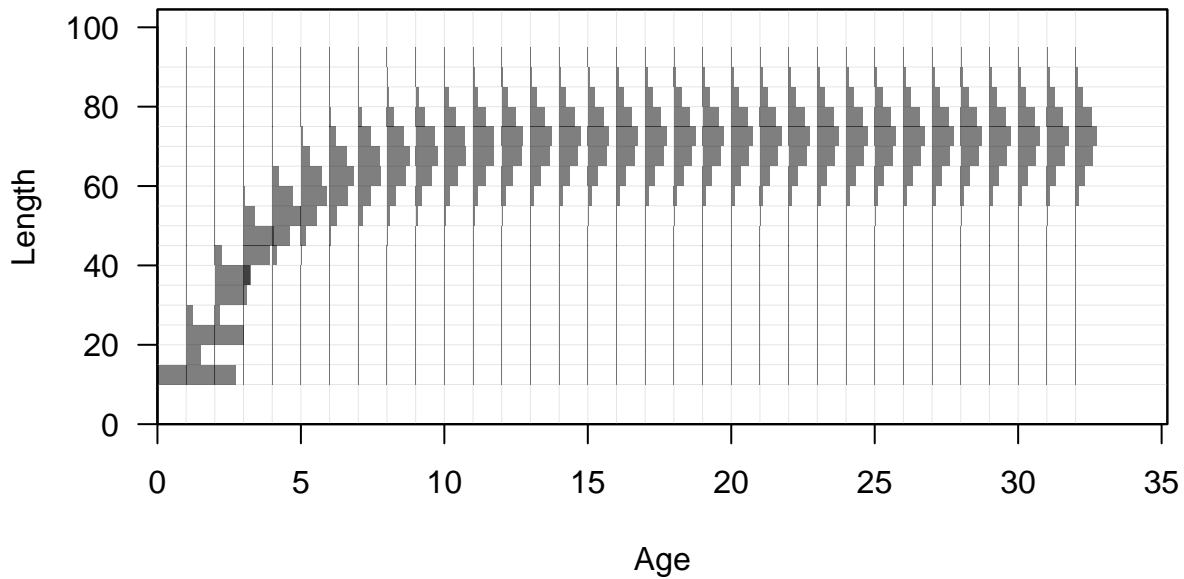
Length (cm, beginning of the year)

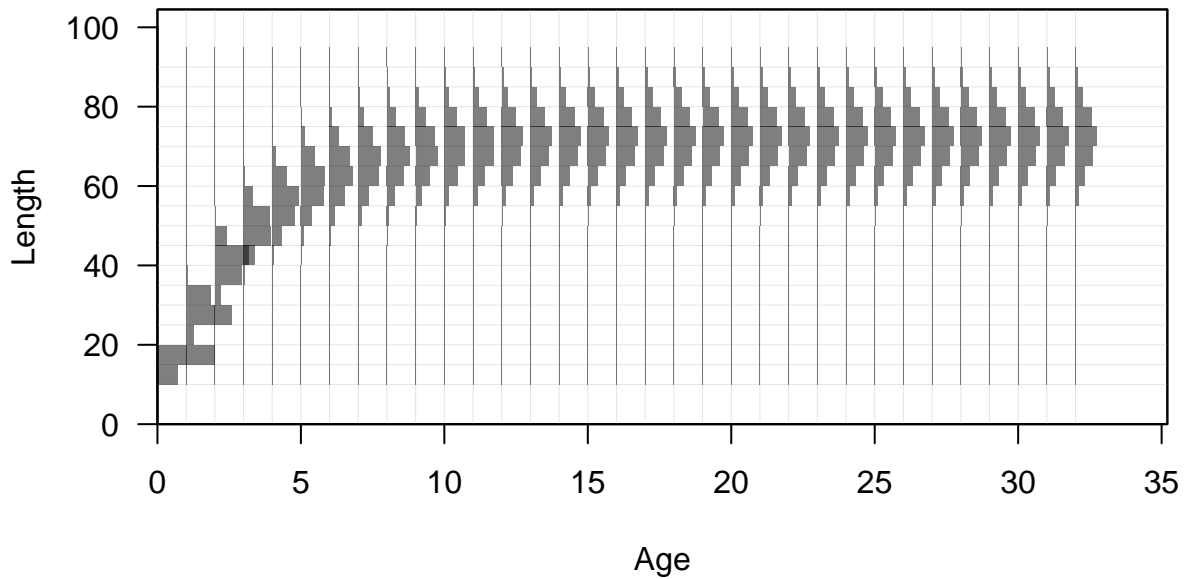


Age (yr)

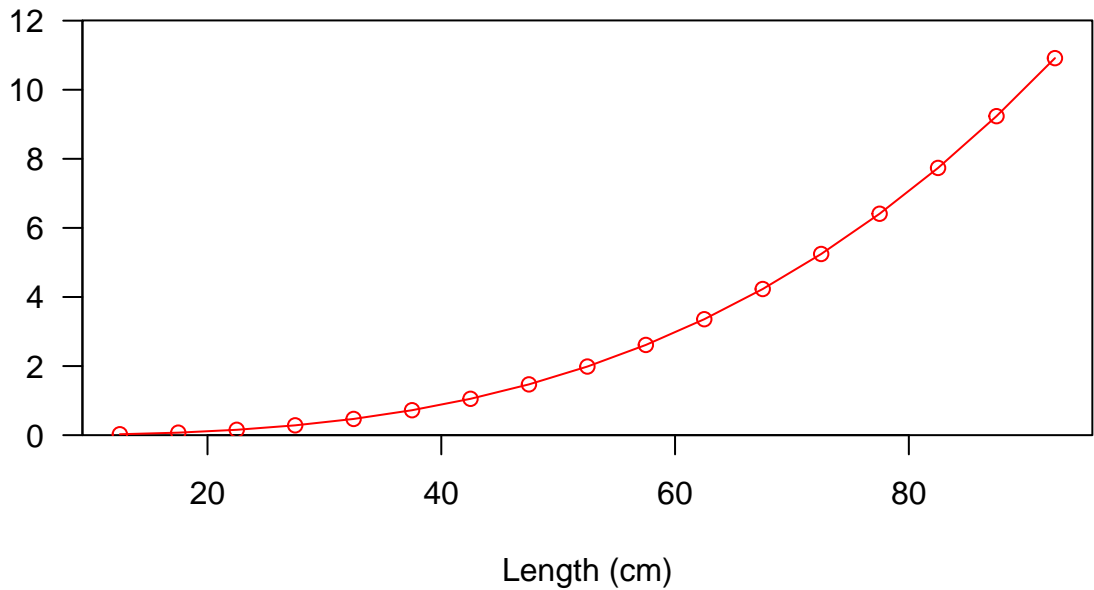


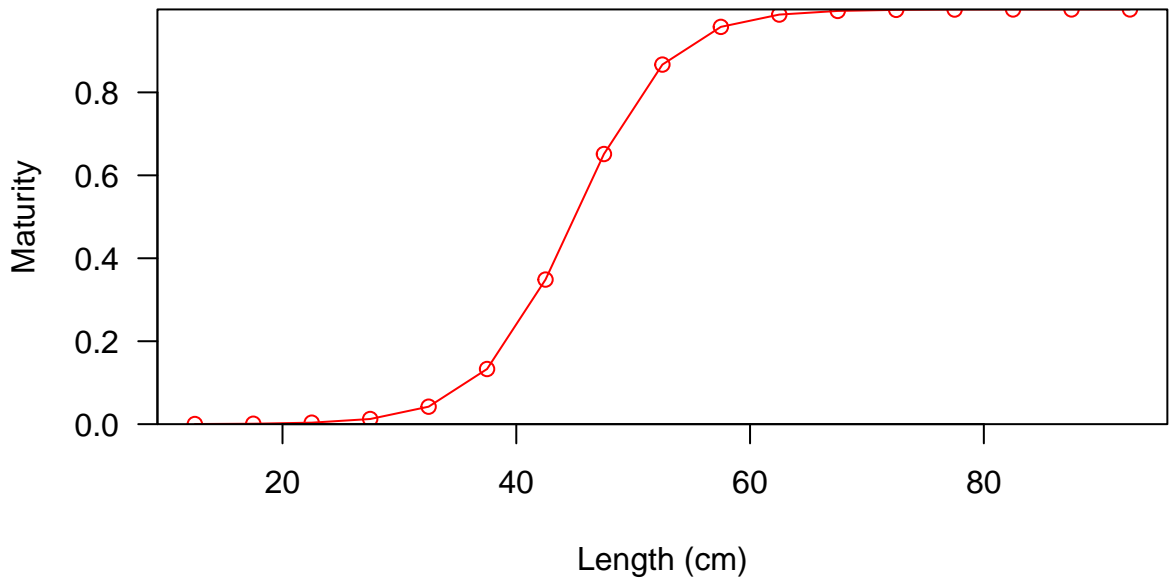




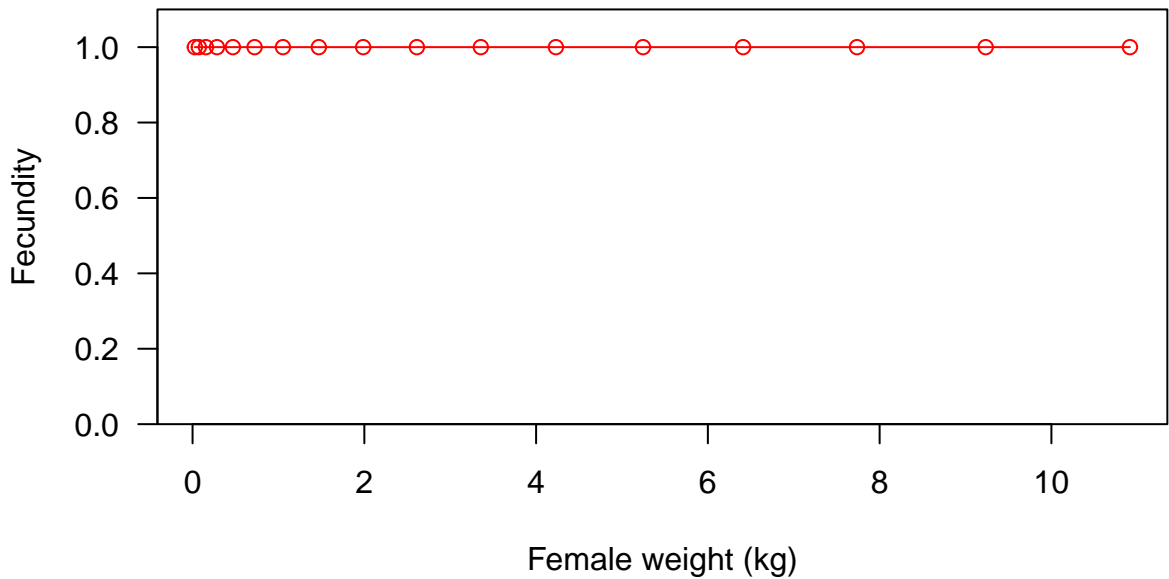


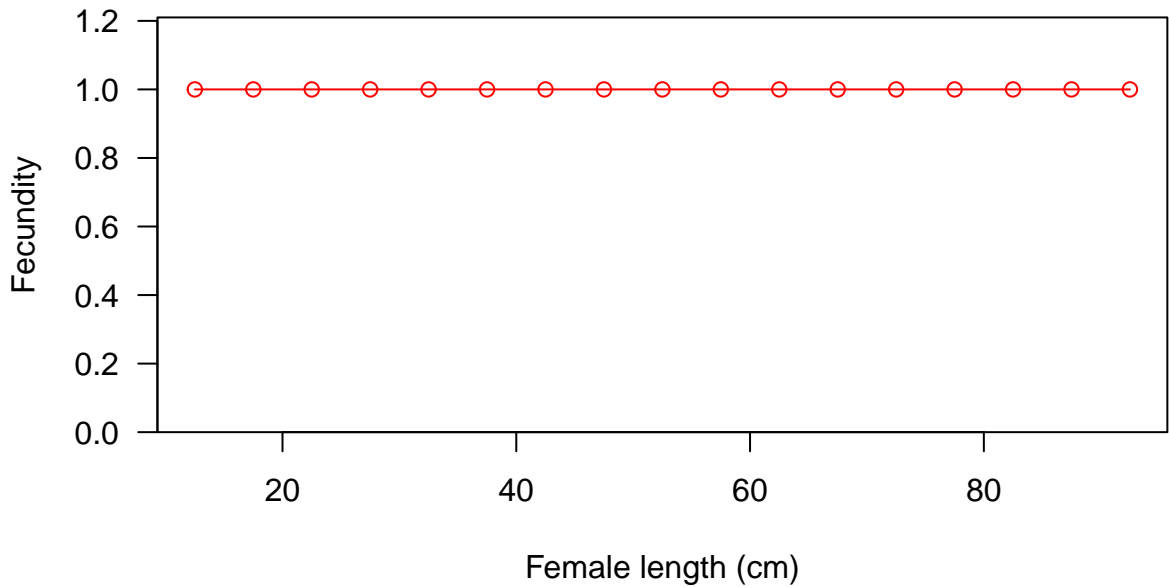
Mean weight (kg) in last year



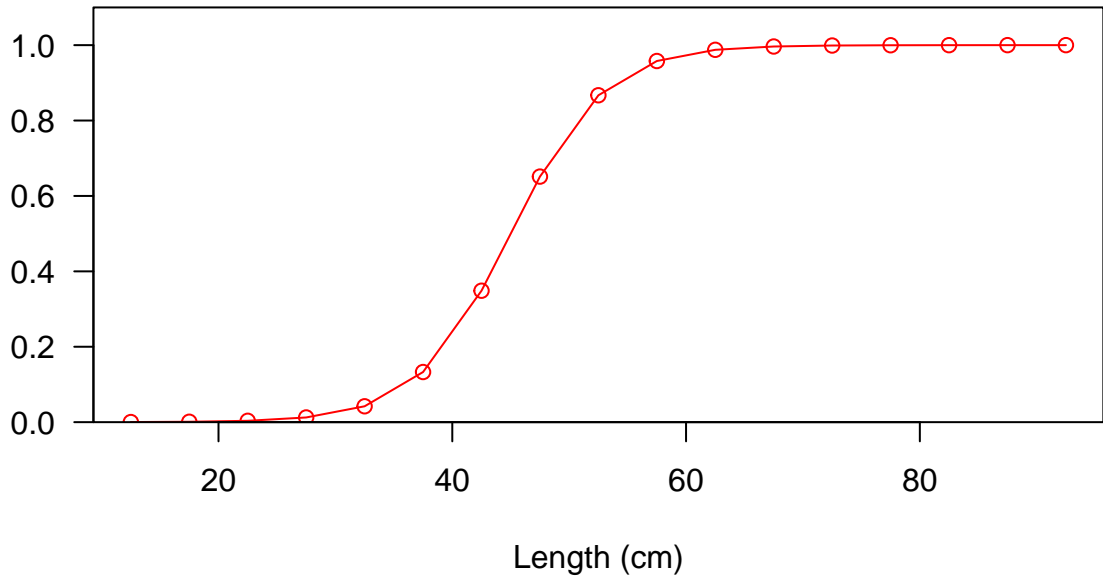


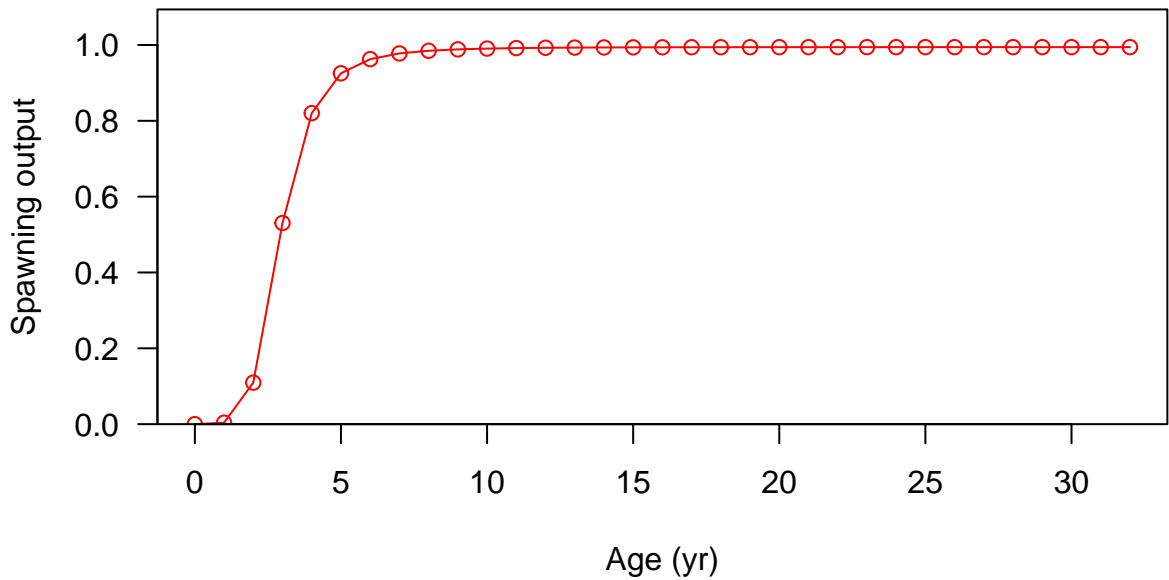




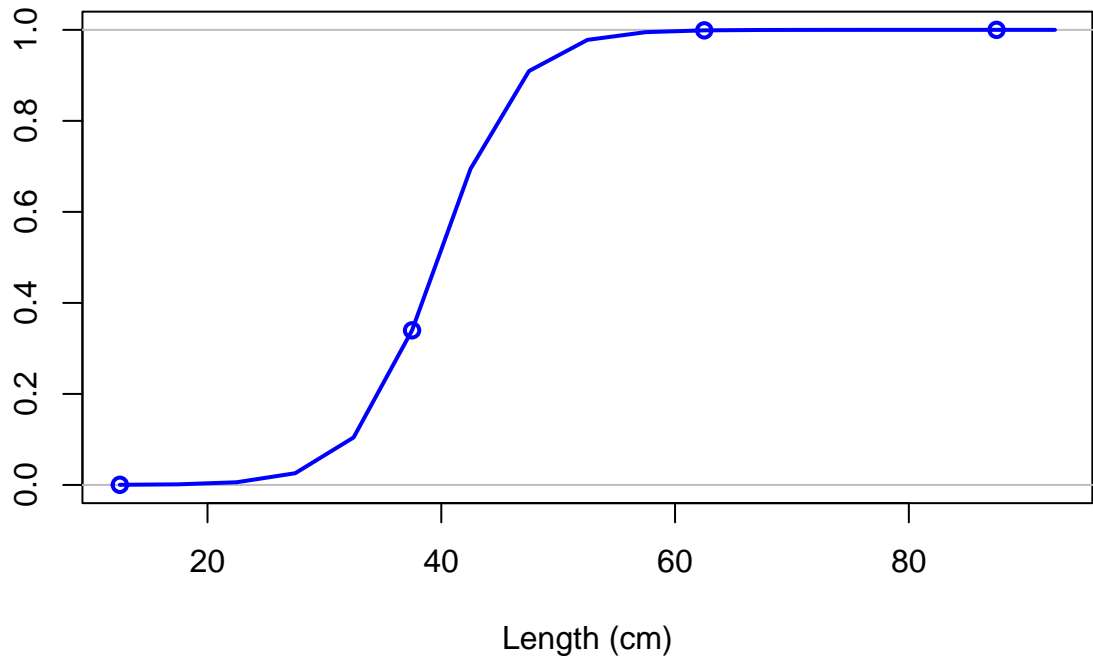


Spawning output

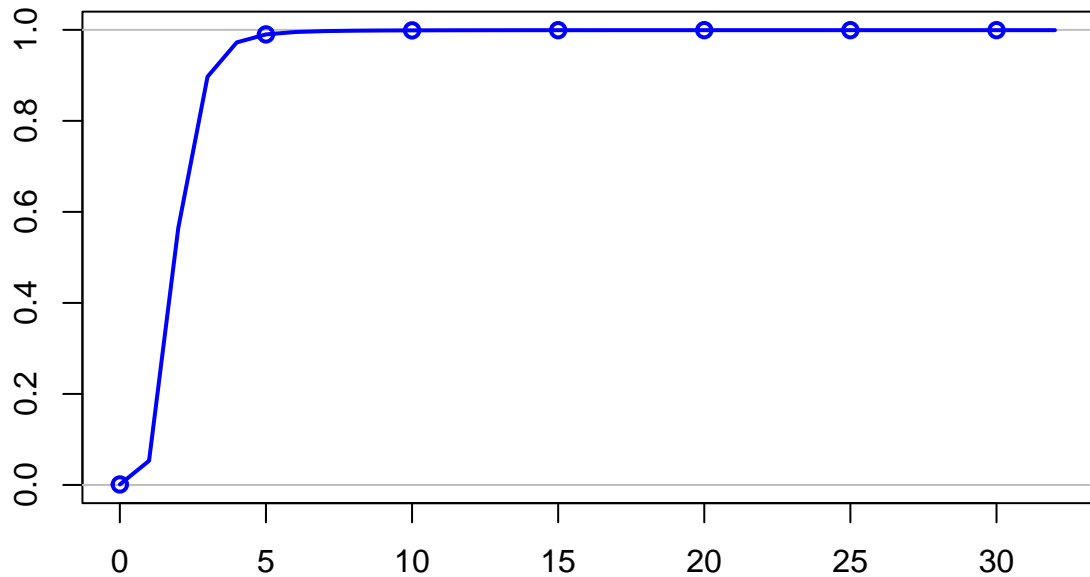




Selectivity

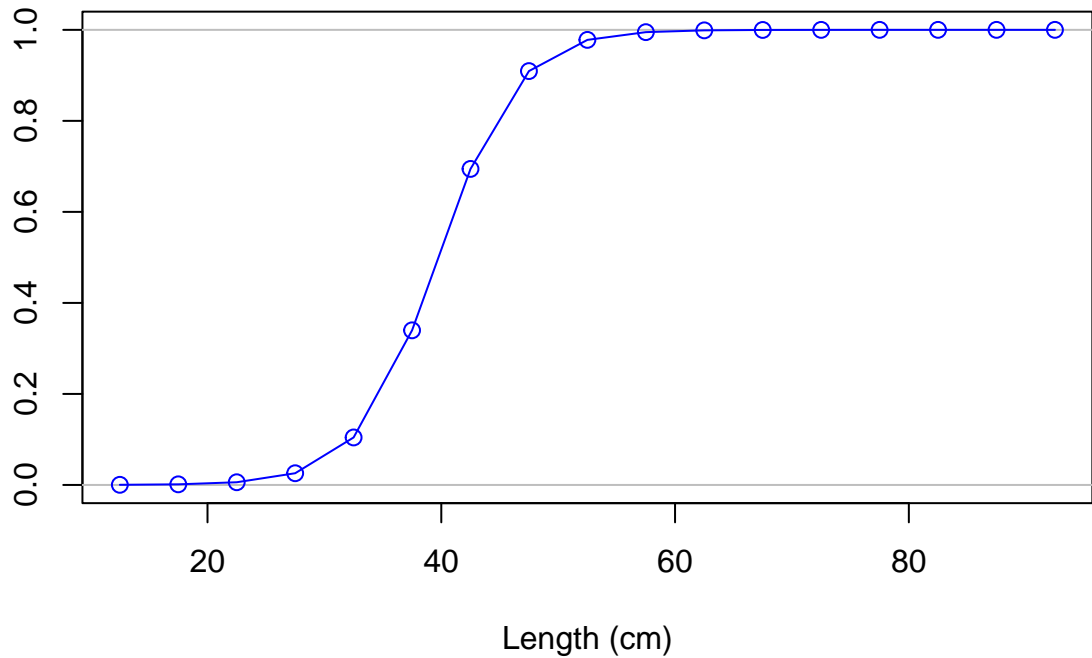


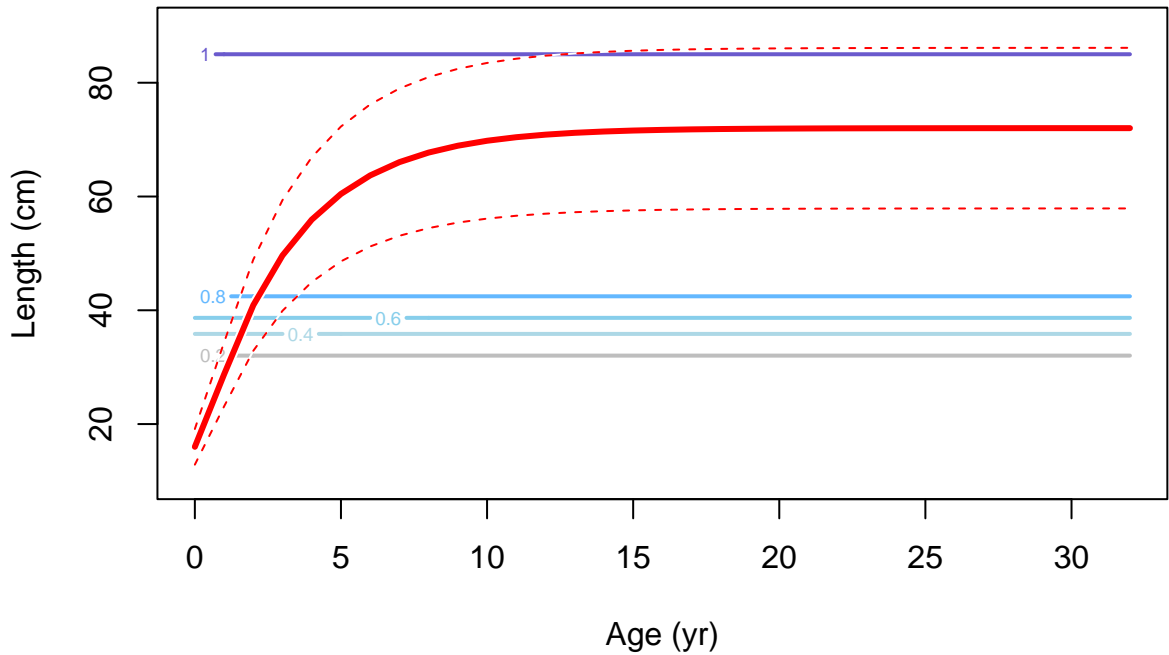
Selectivity



Age (yr)

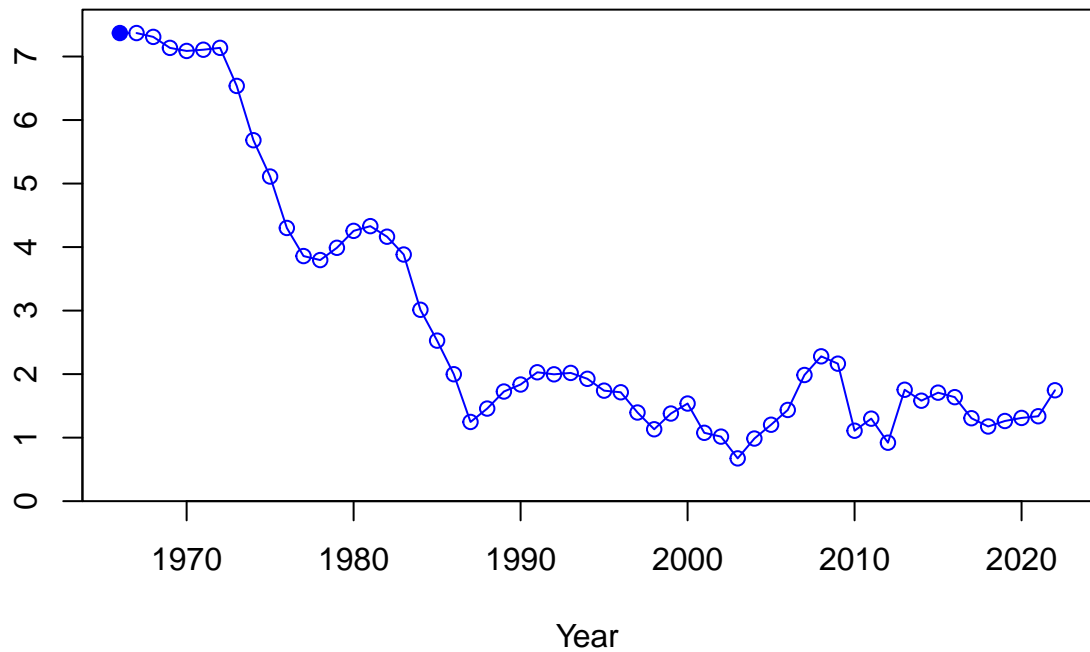
Selectivity



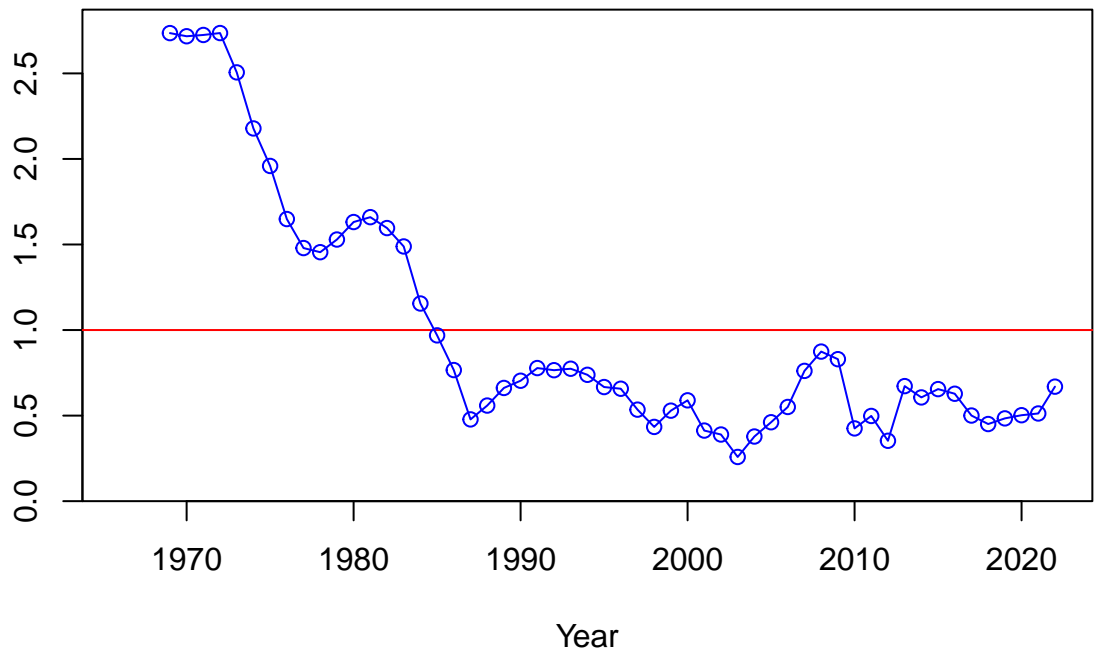


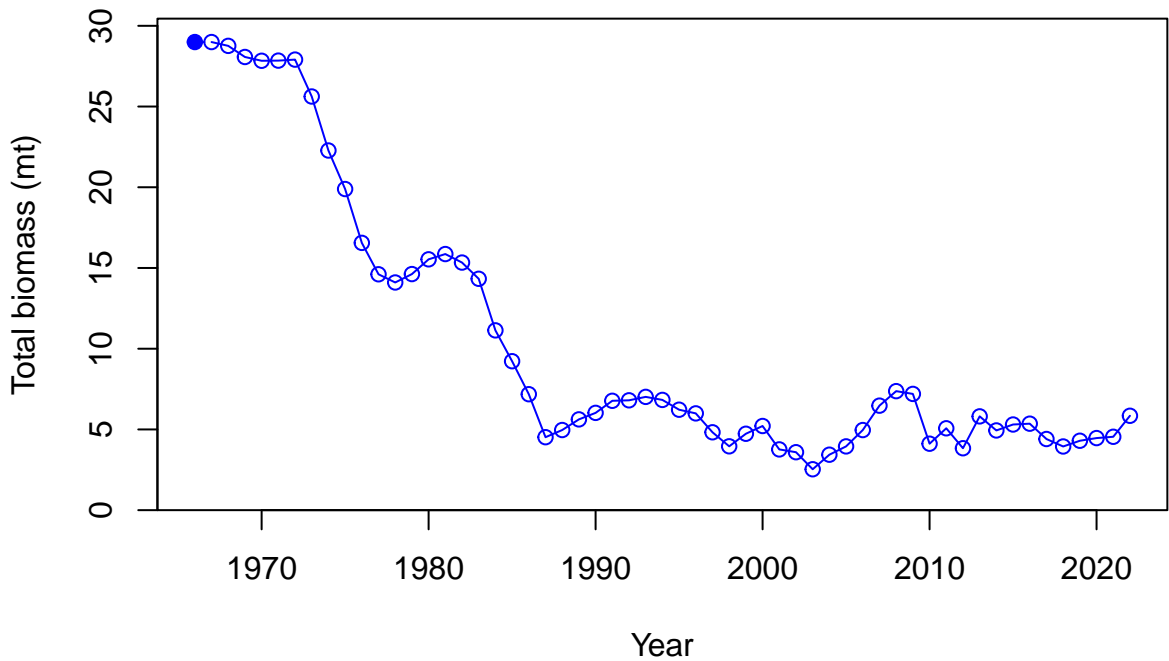


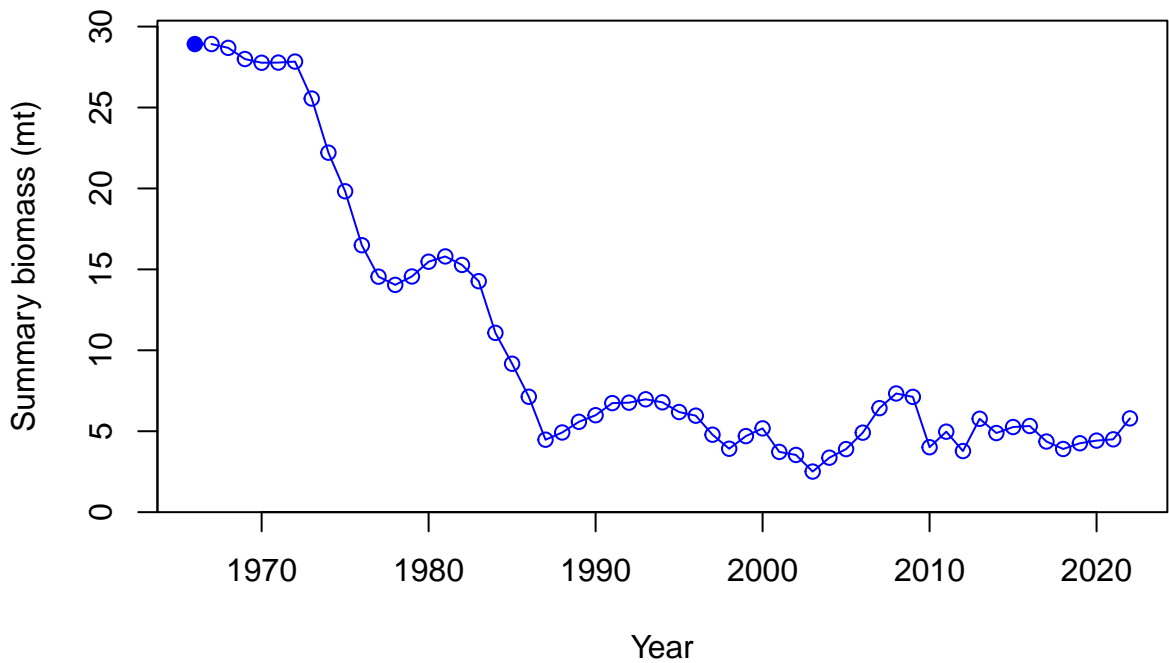
Spawning output



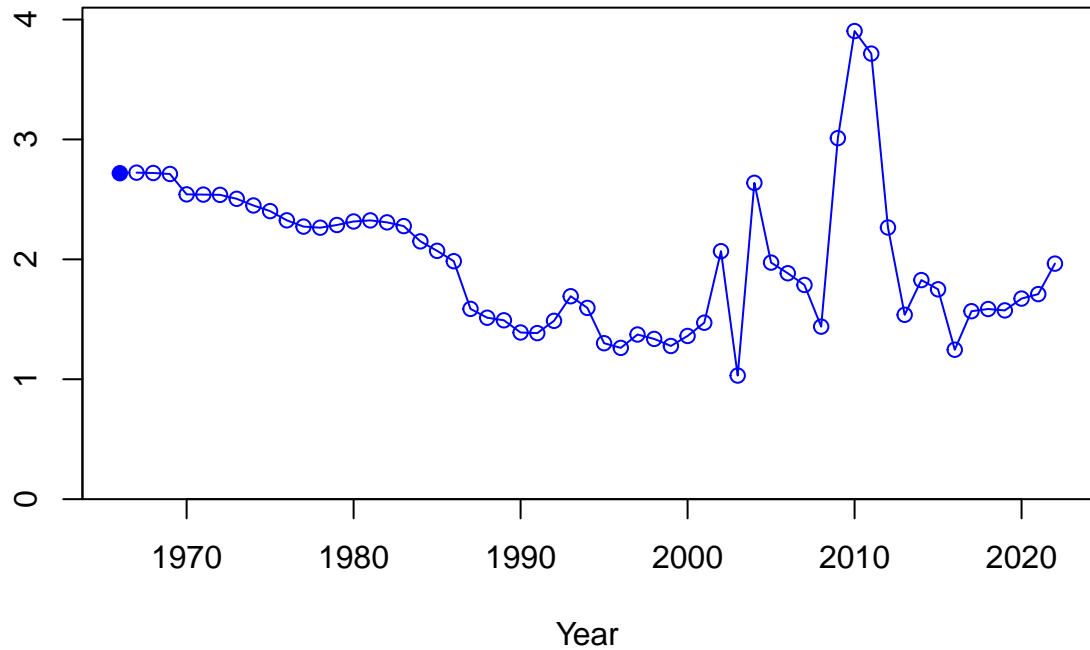
Relative spawning output:  $B/B_{MSY}$



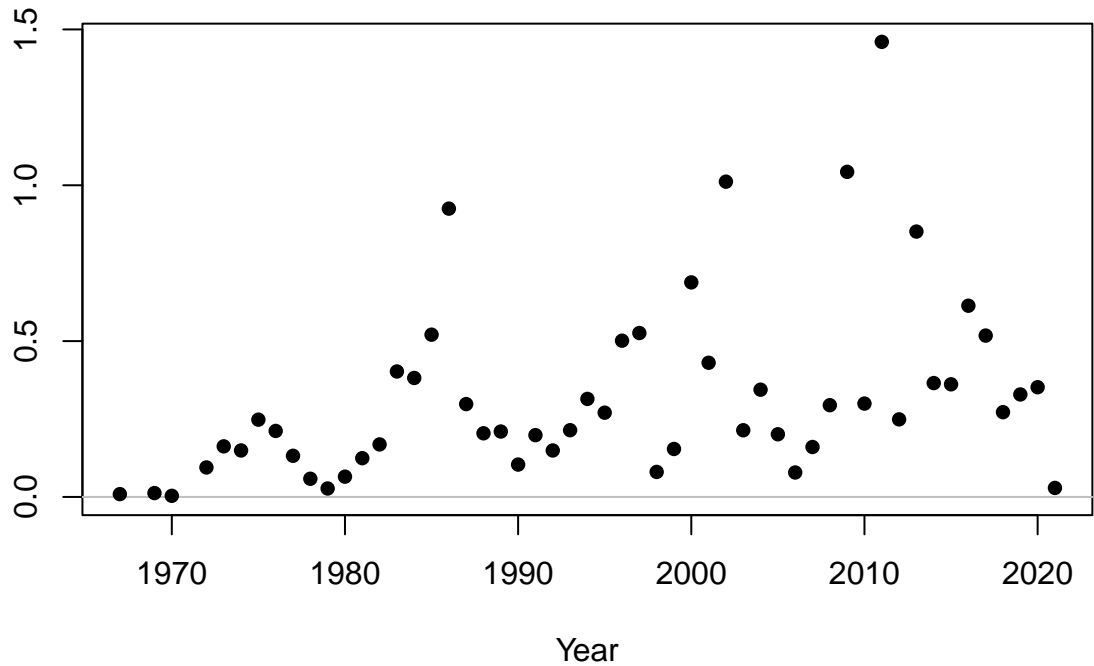




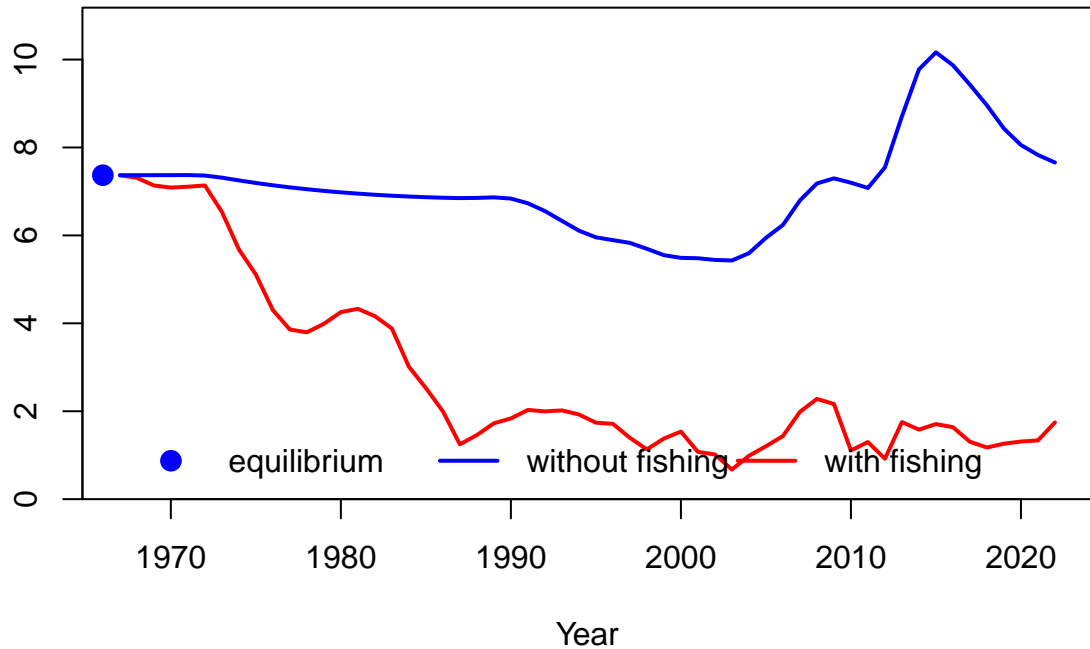
Age-0 recruits (1,000s)



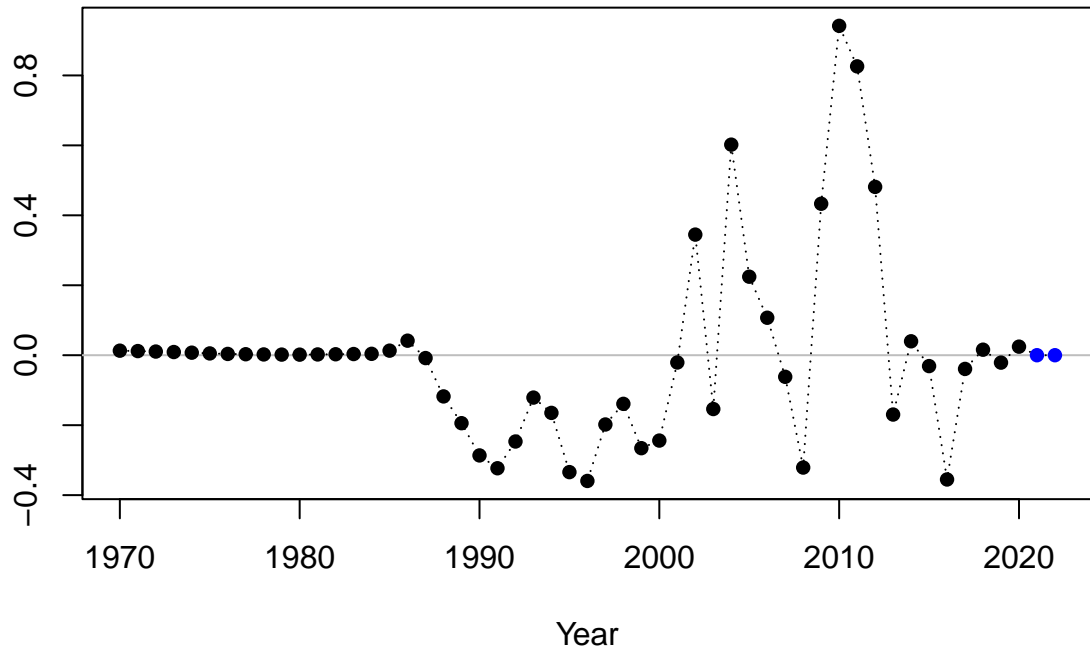
Summary Fishing Mortality



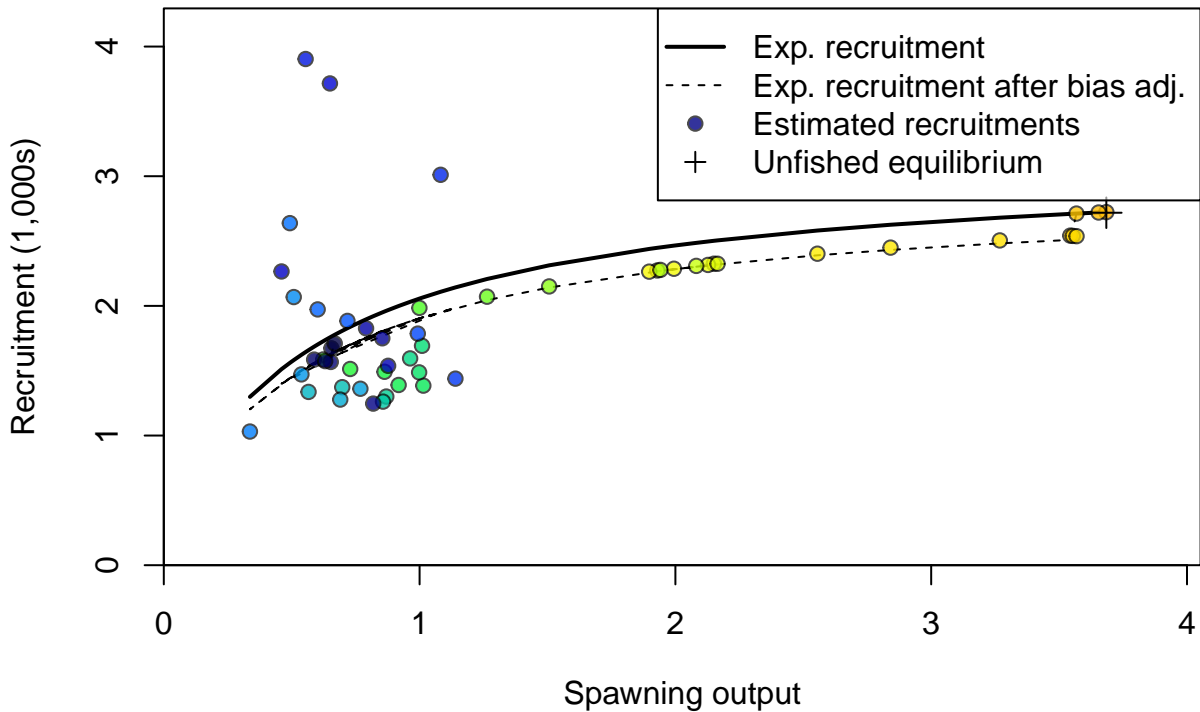
Spawning output

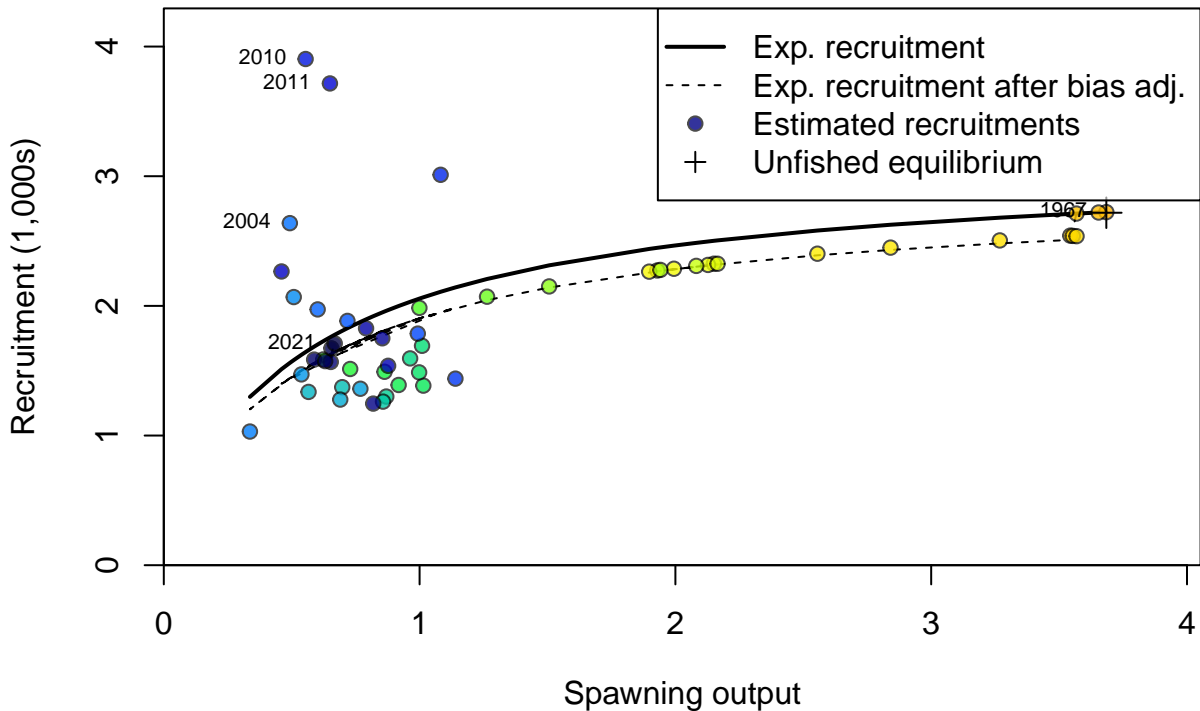


Log recruitment deviation

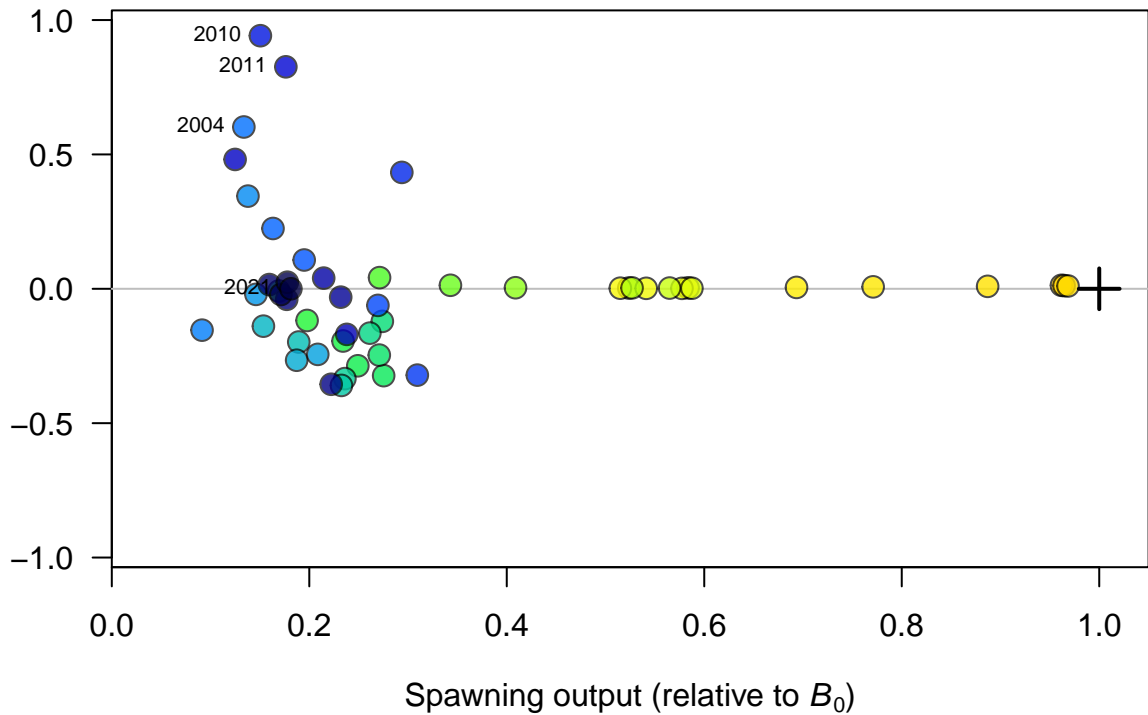


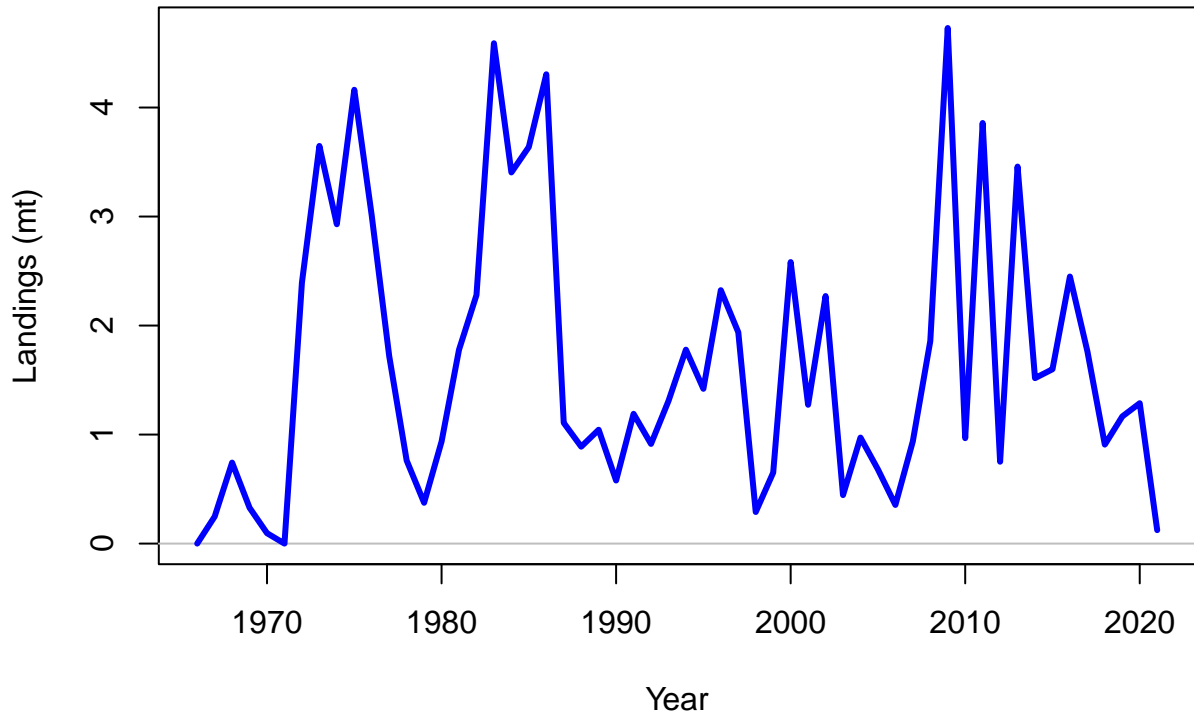


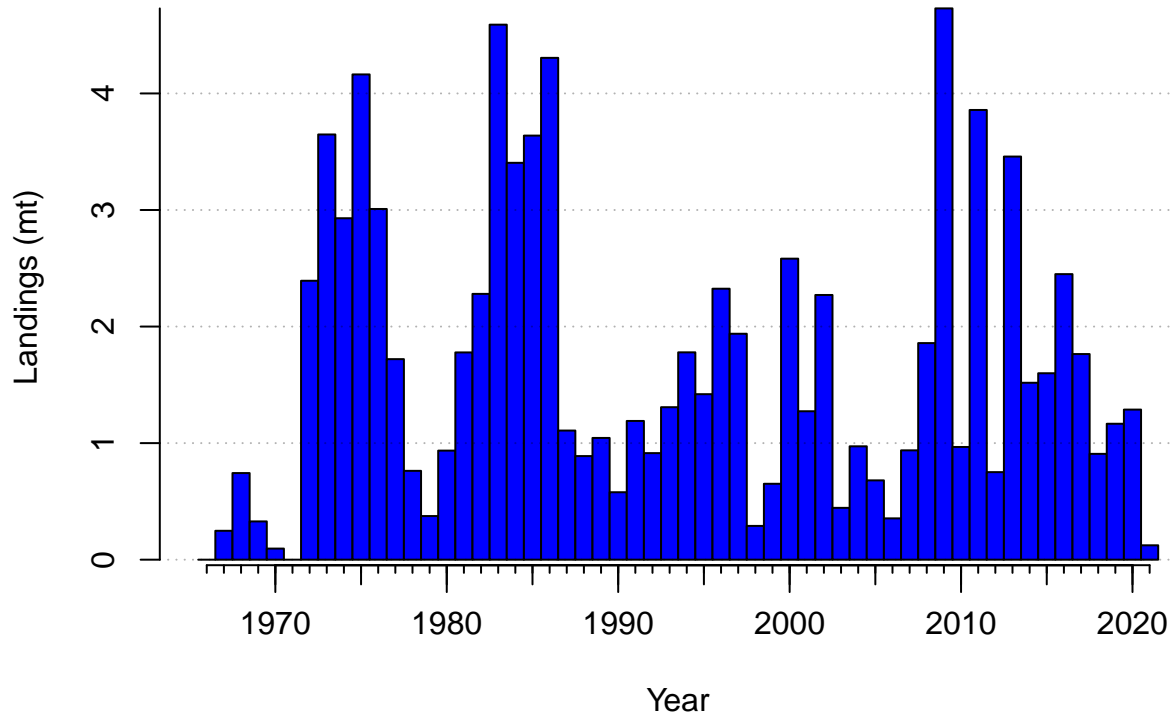




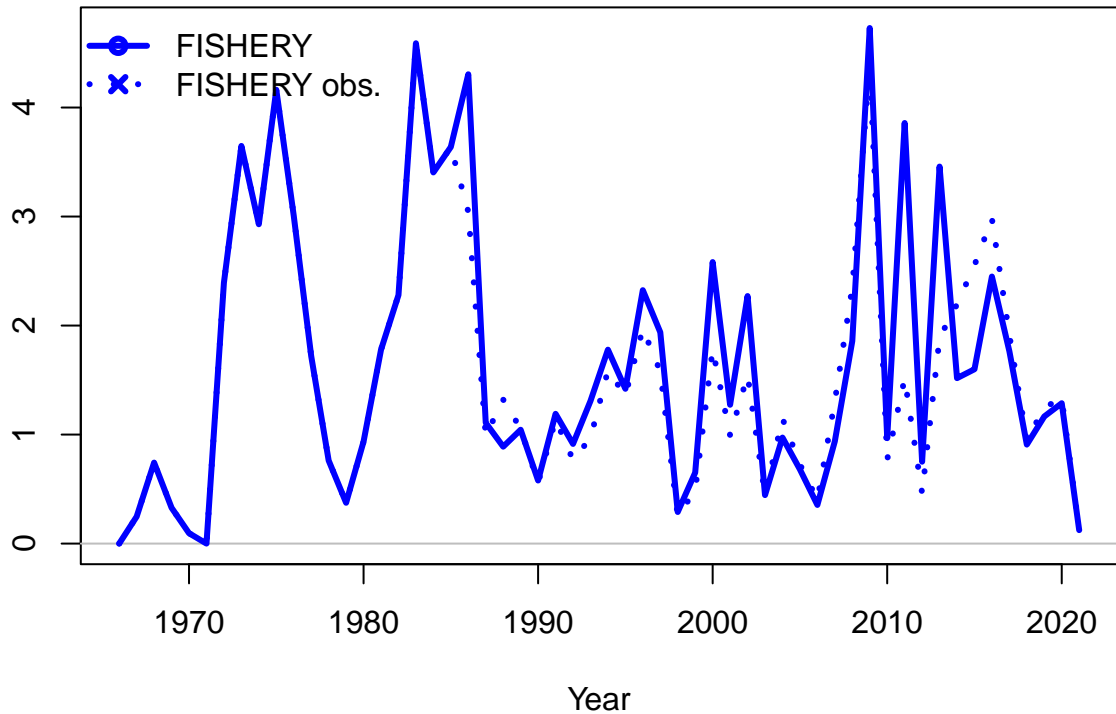
Log recruitment deviation

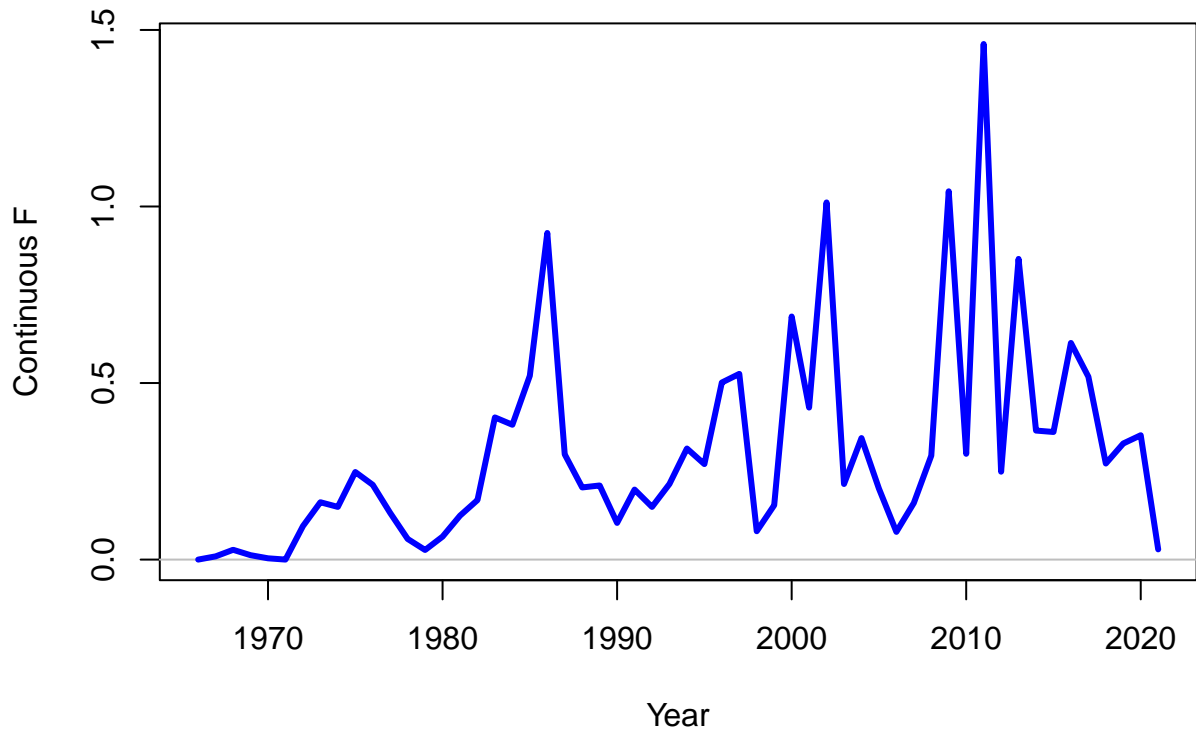




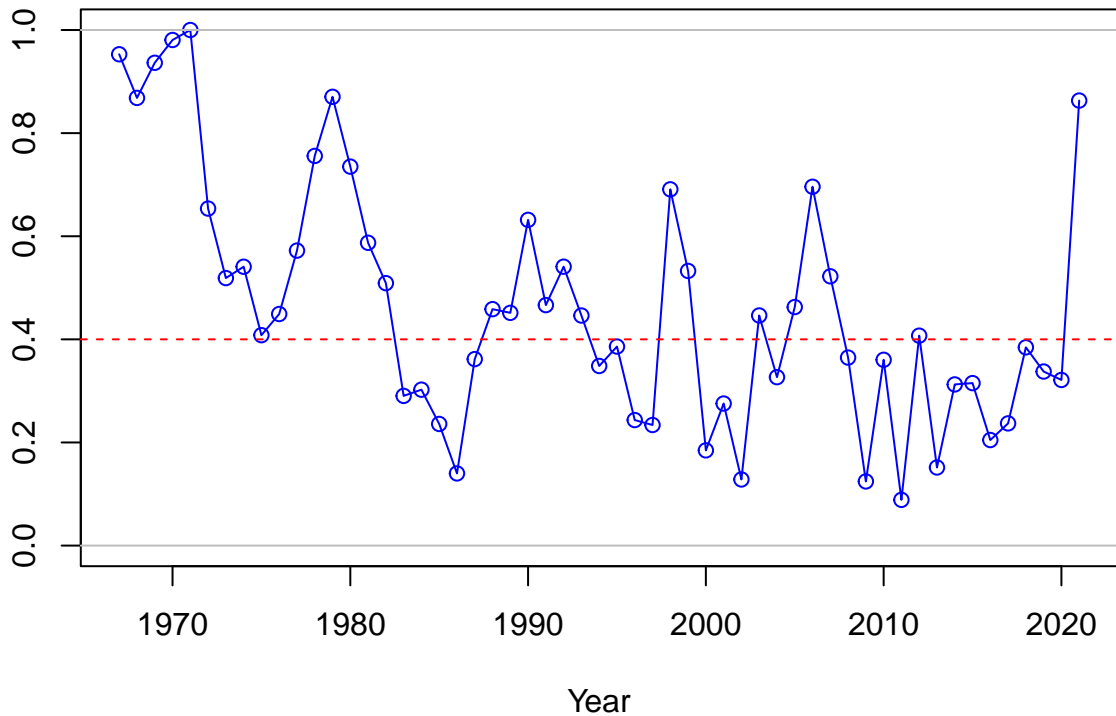


Observed and expected Landings (mt)

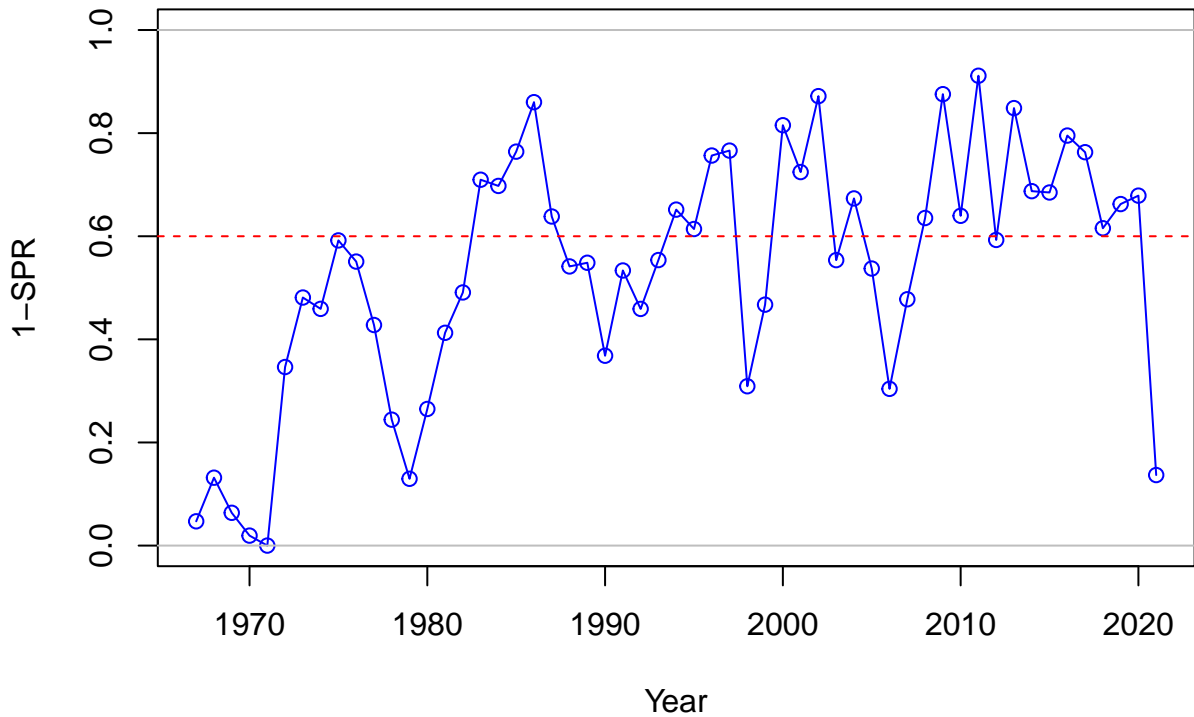




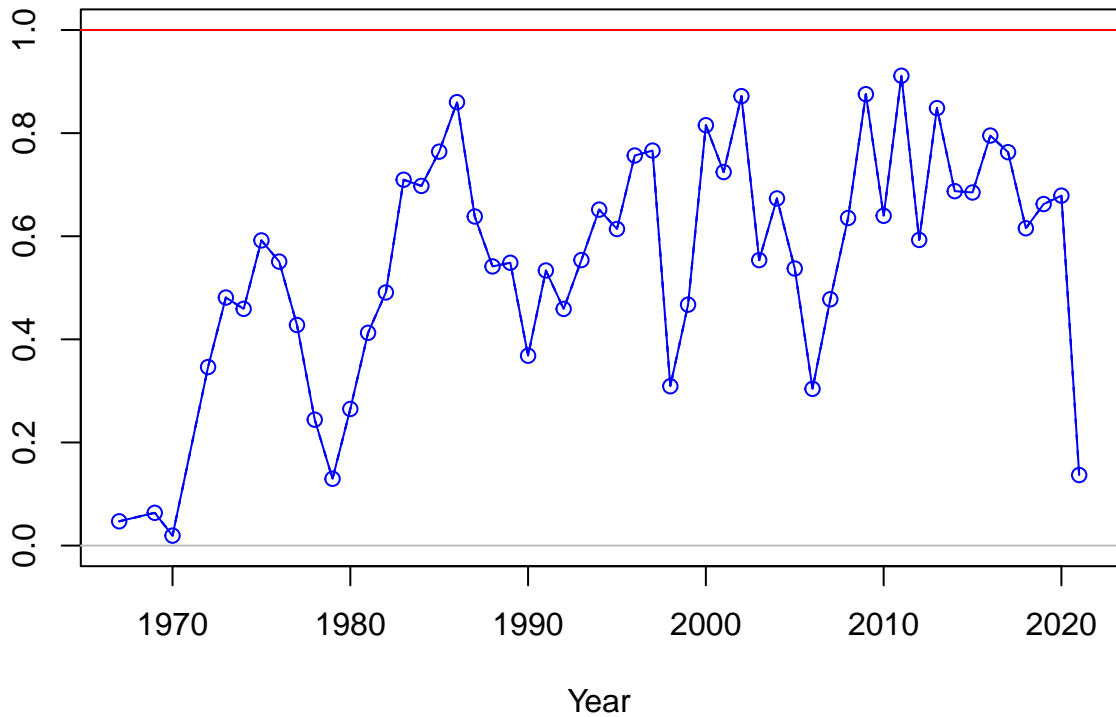
SPR



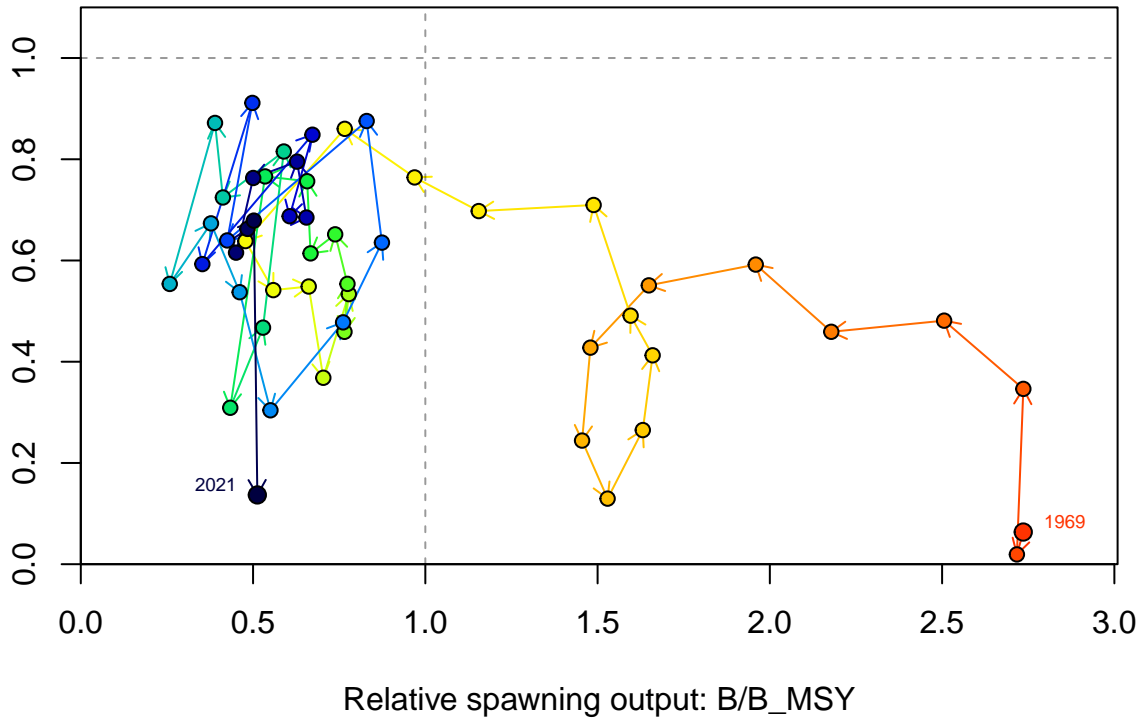




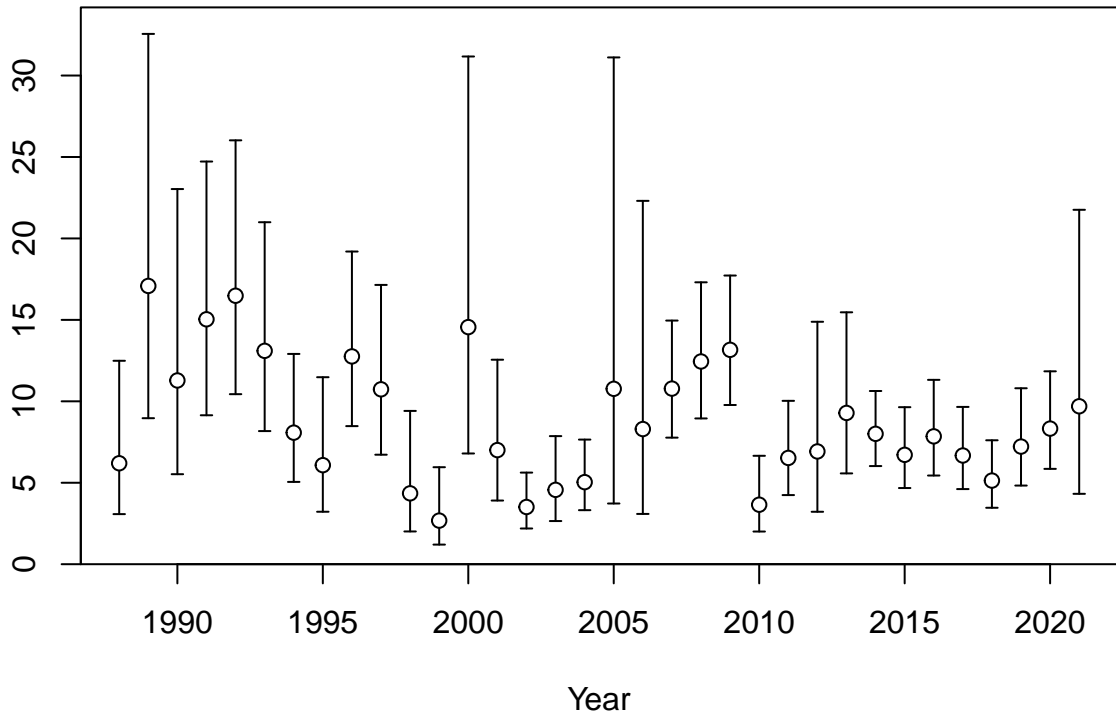
Fishing intensity: 1-SPR

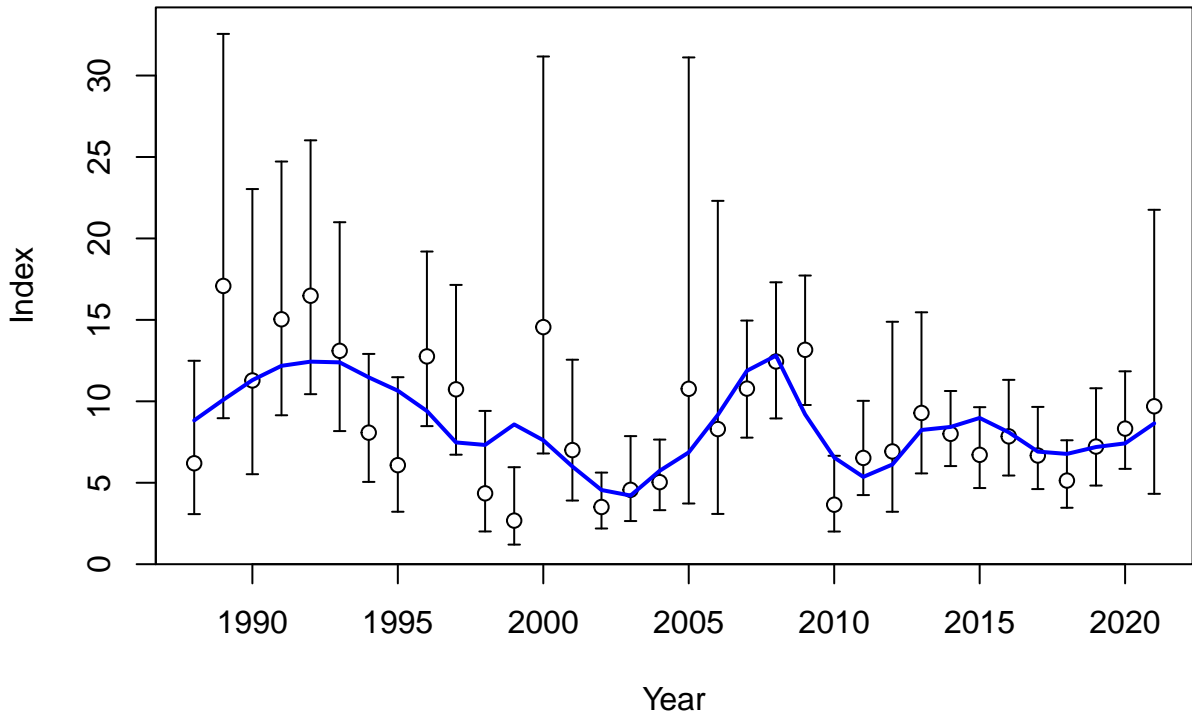


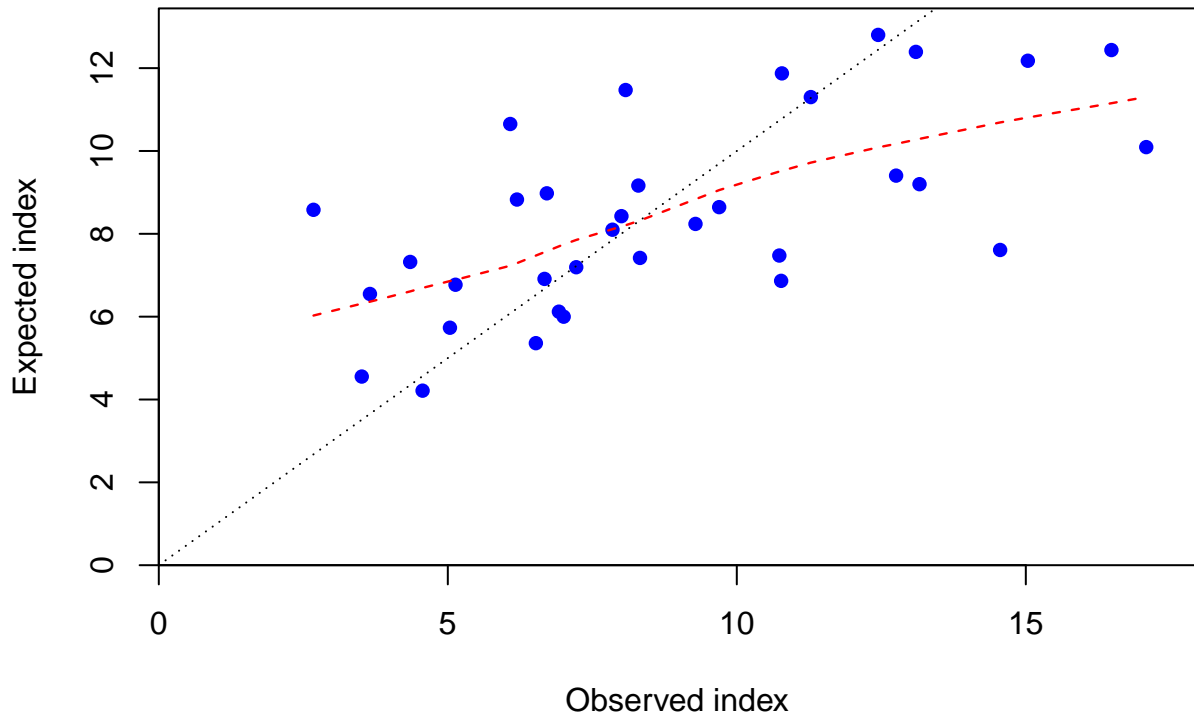
Fishing intensity: 1-SPR



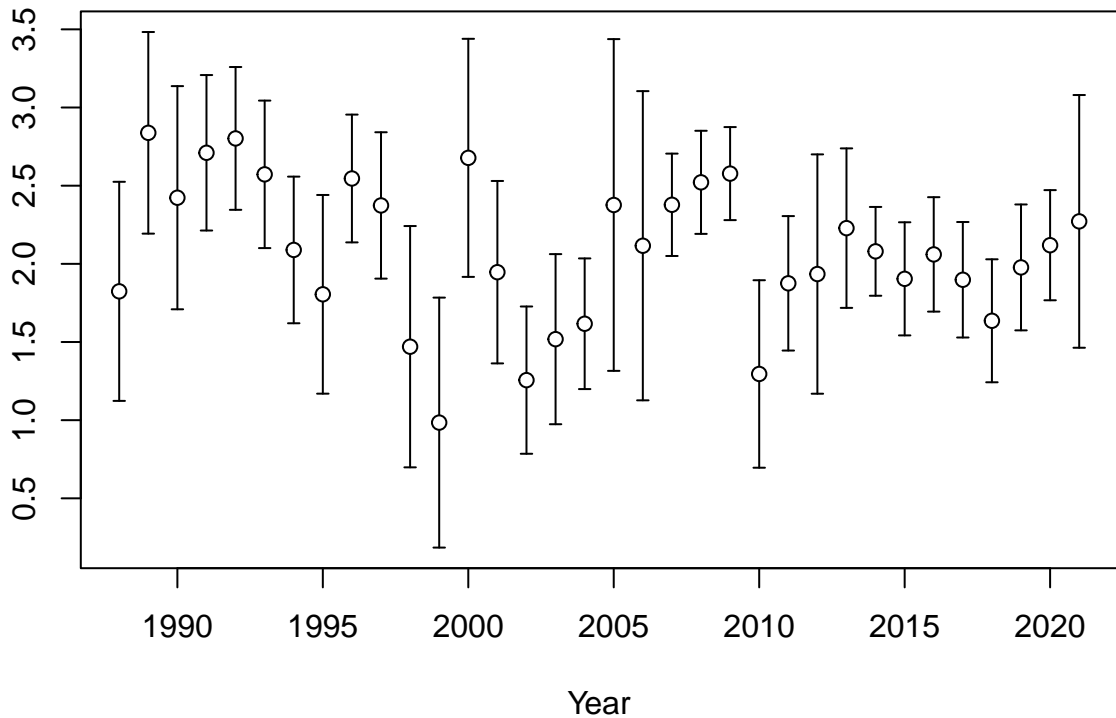
Index



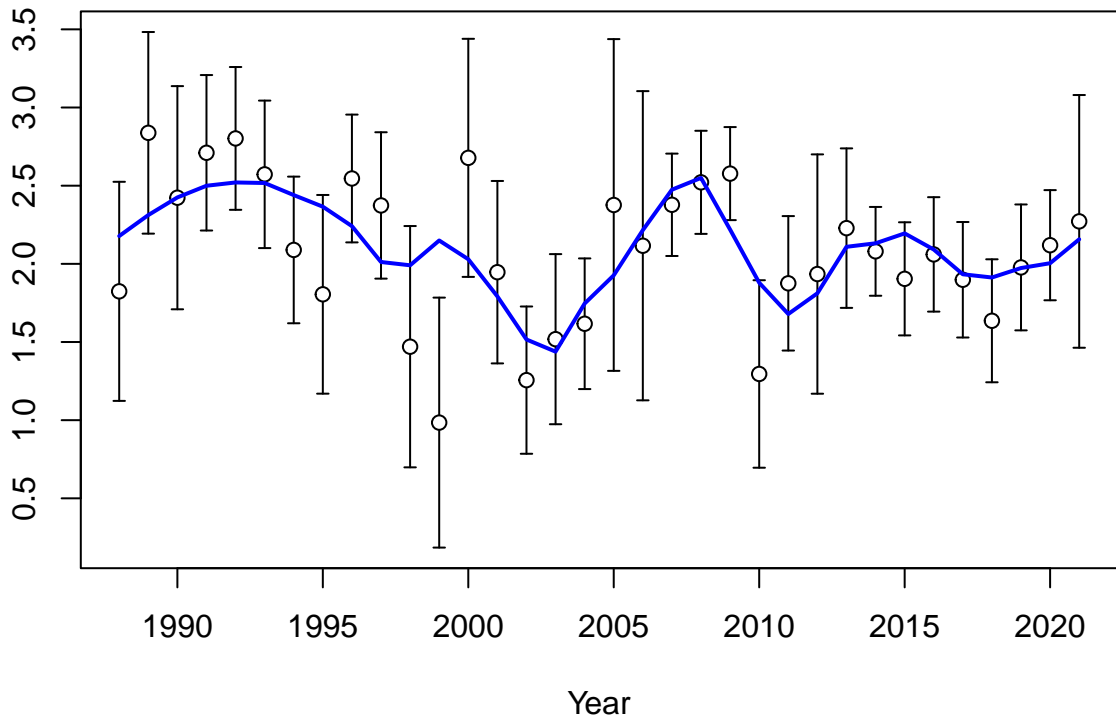




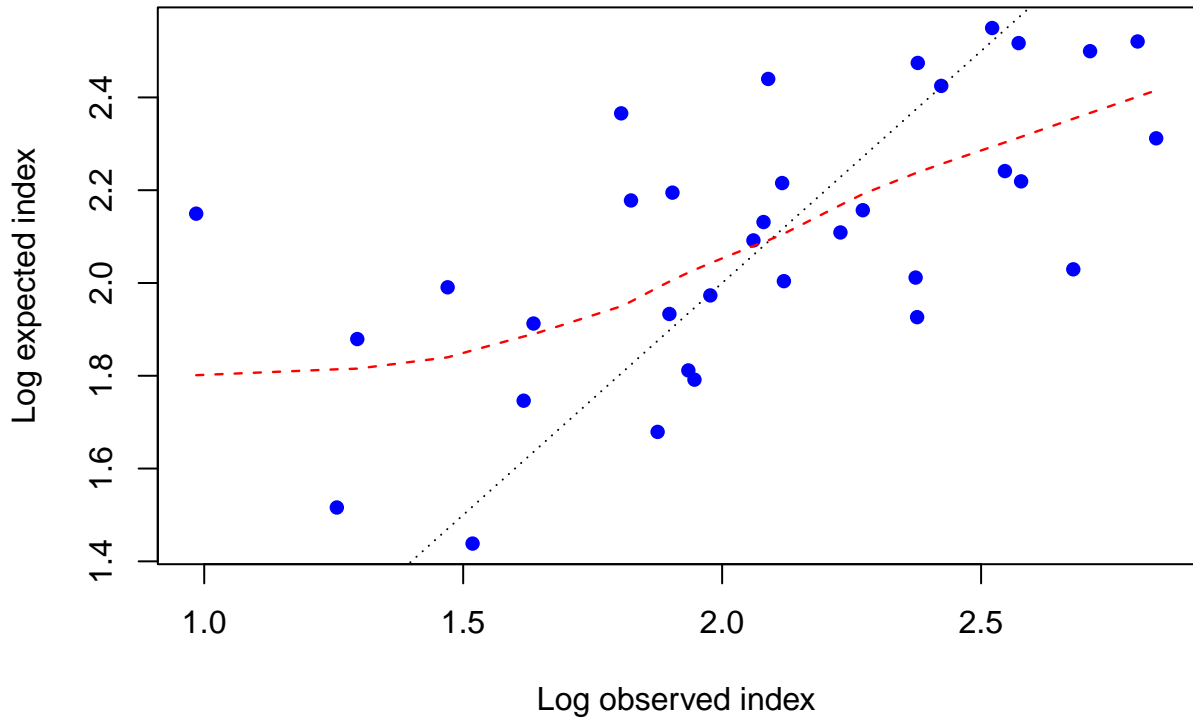
Log index

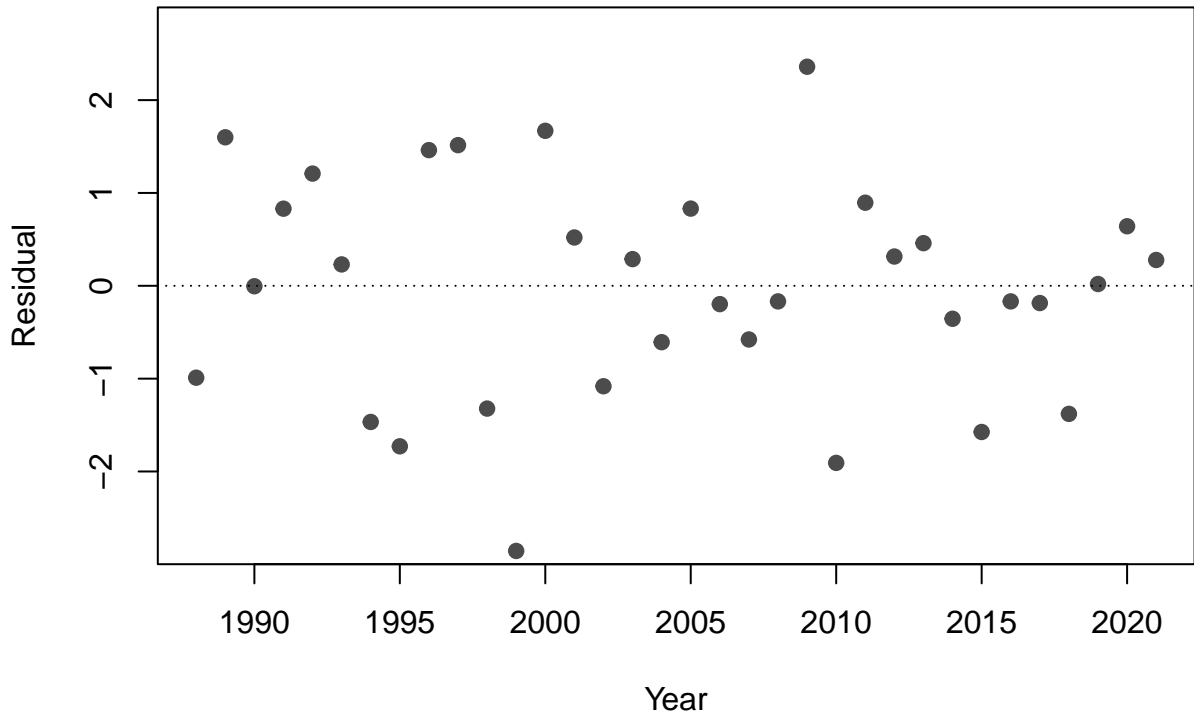


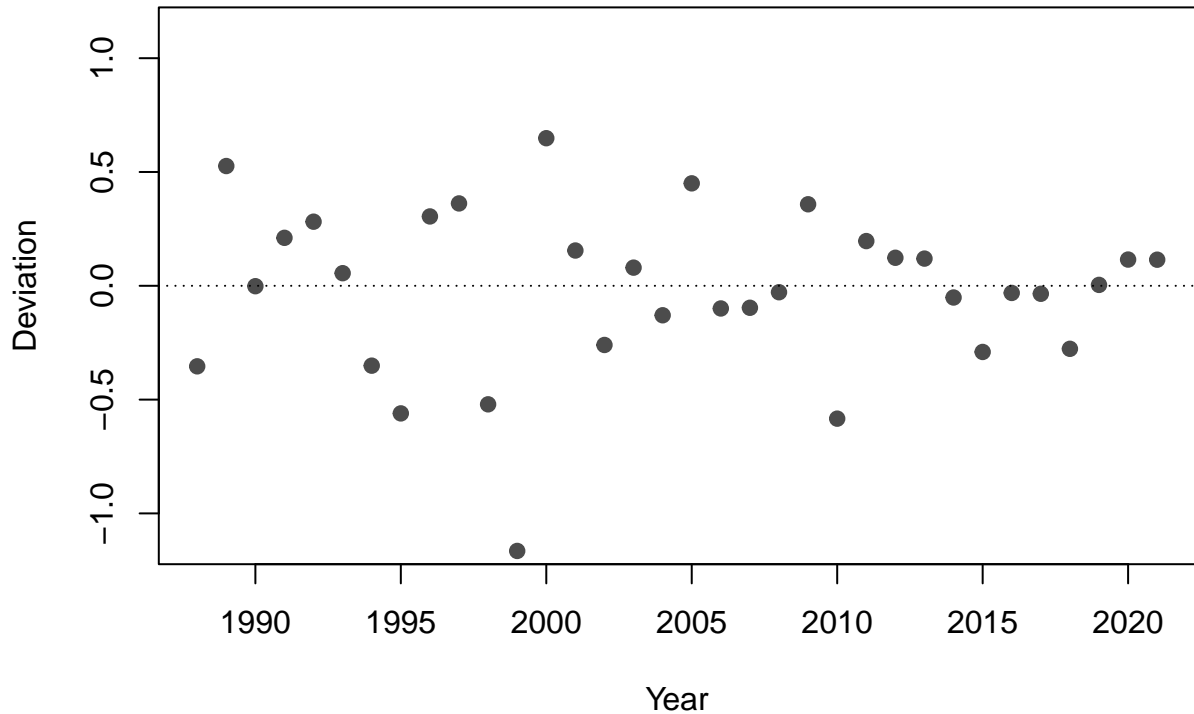
Log index



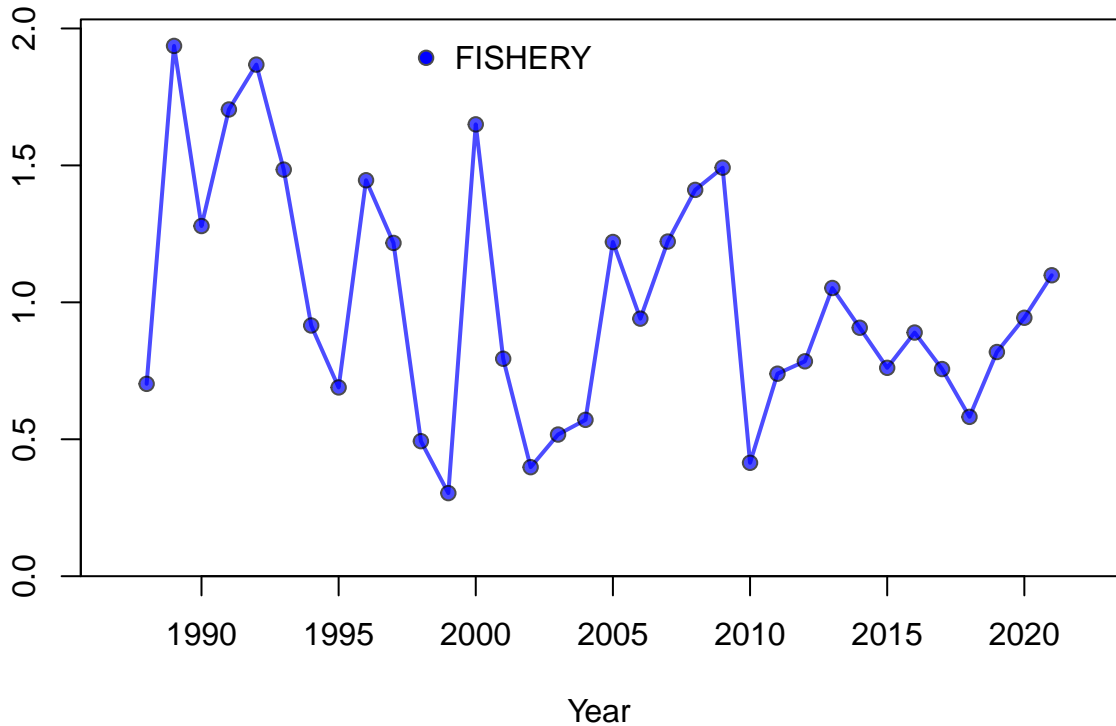


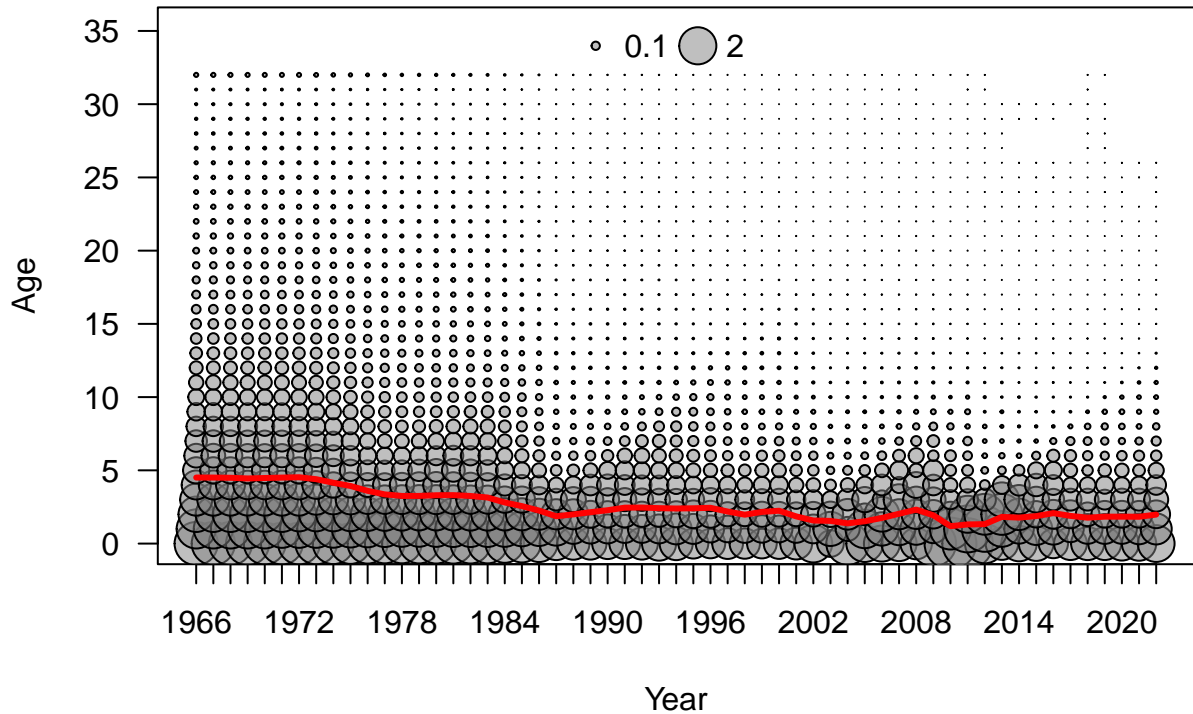


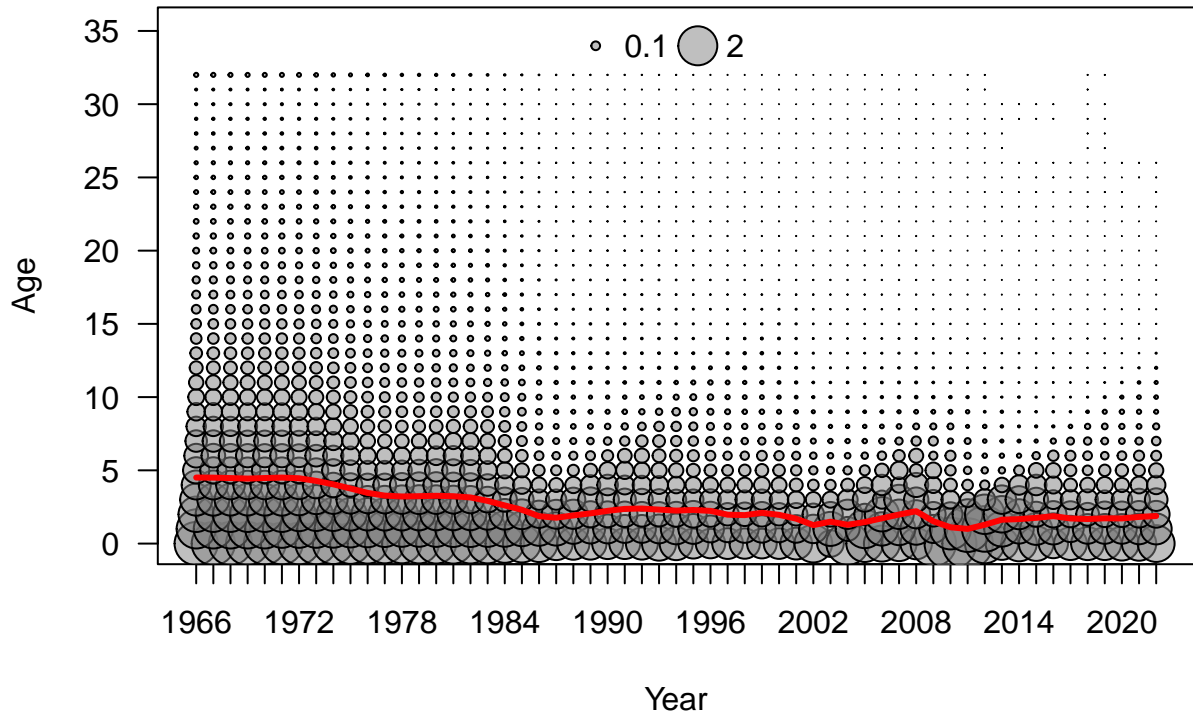




Standardized index







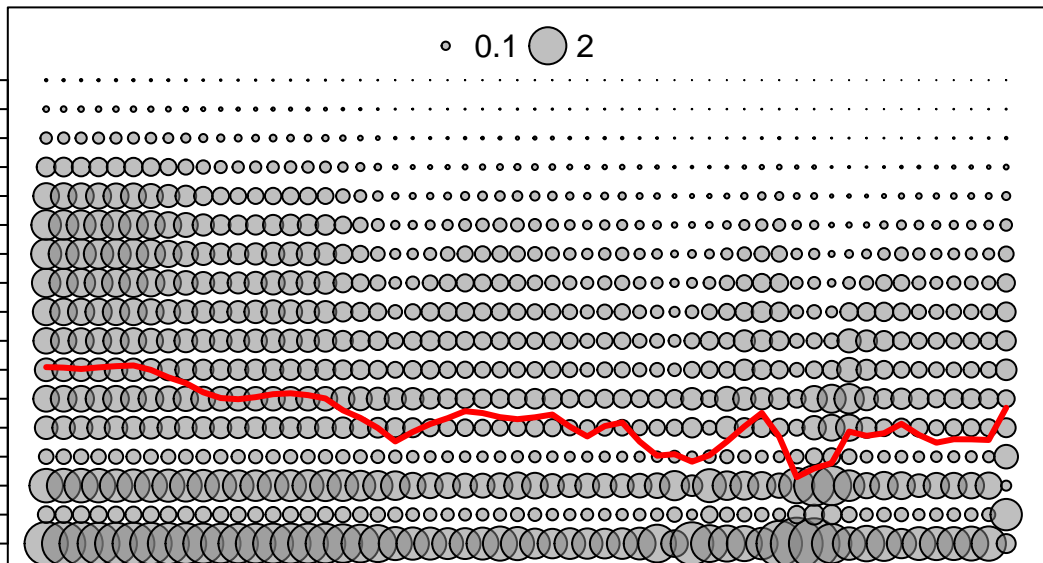
Length

◦ 0.1    ● 2

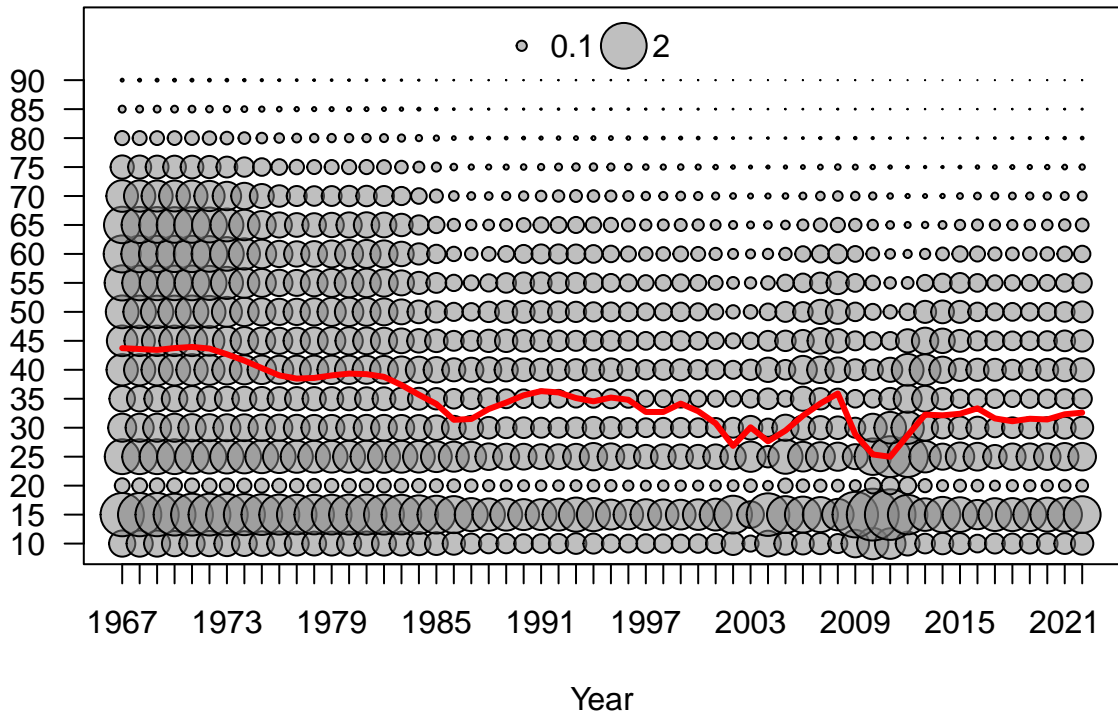
90  
85  
80  
75  
70  
65  
60  
55  
50  
45  
40  
35  
30  
25  
20  
15  
10

1967 1973 1979 1985 1991 1997 2003 2009 2015 2021

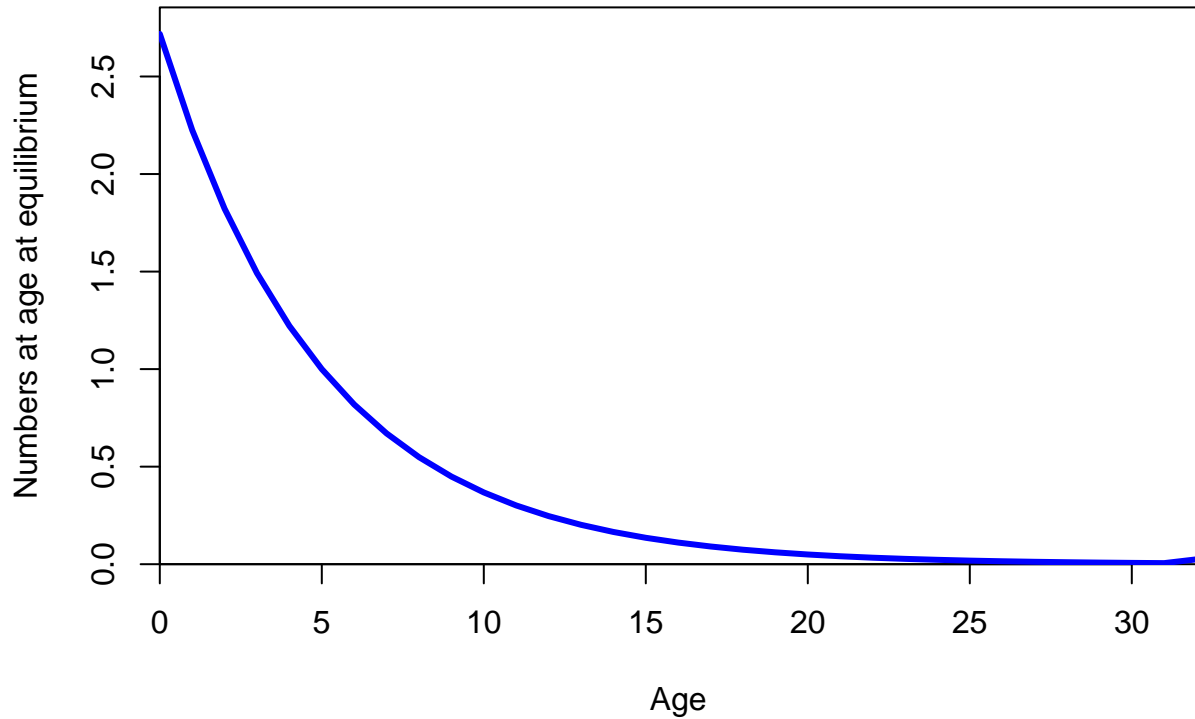
Year

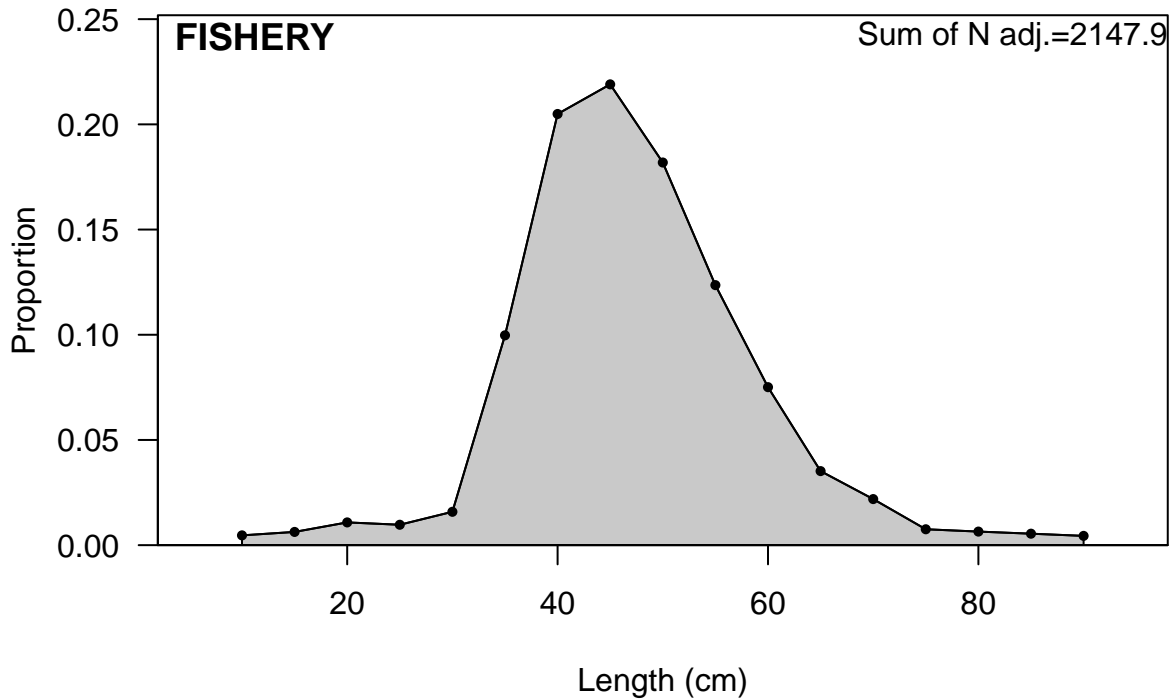


Length



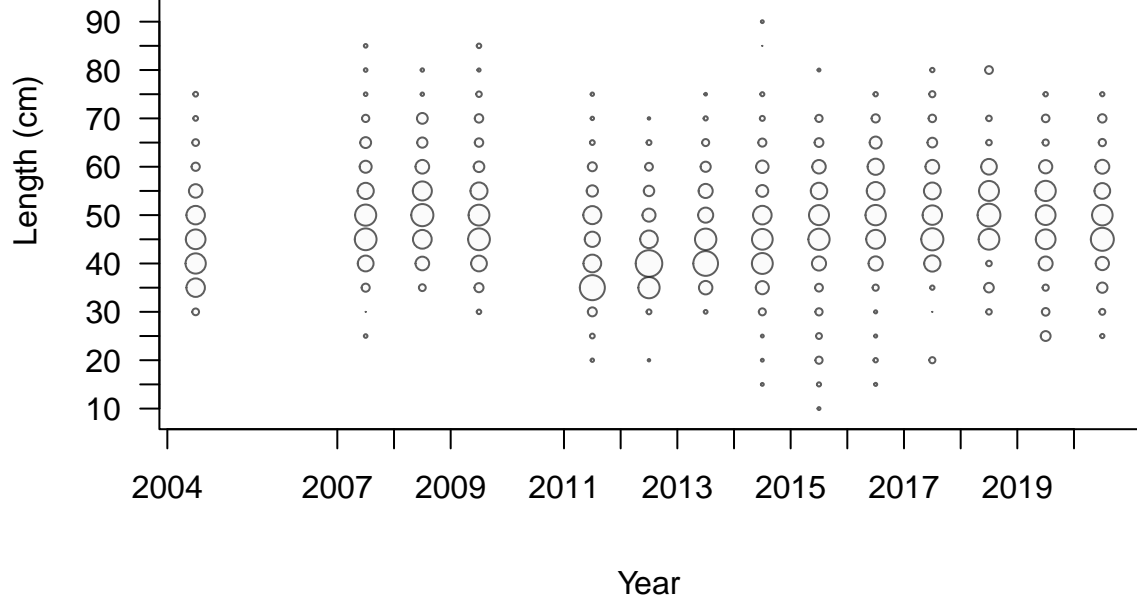




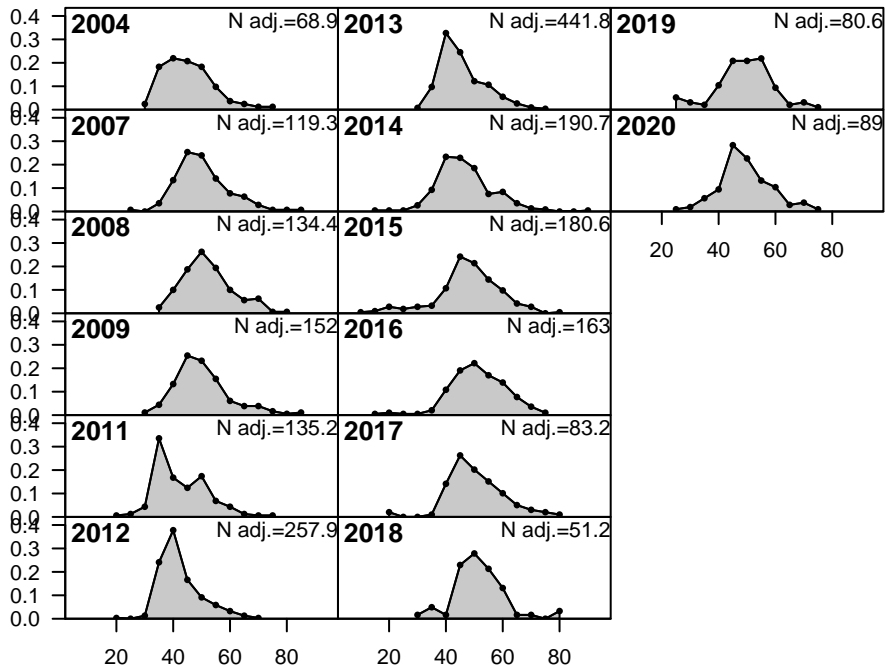


# FISHERY

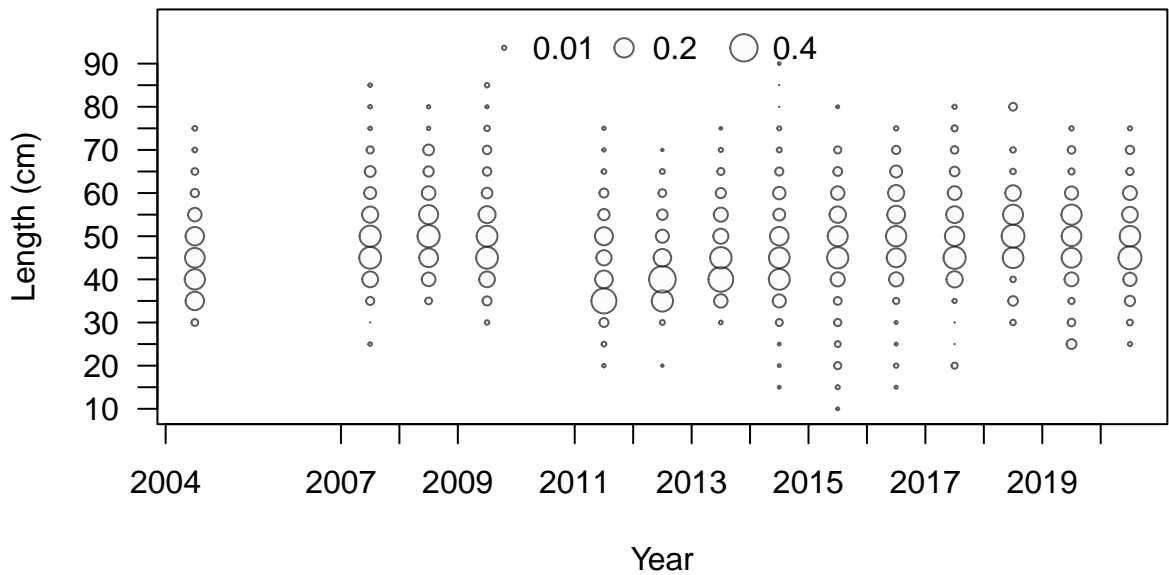
• 0.01 ○ 0.2 ○ 0.4



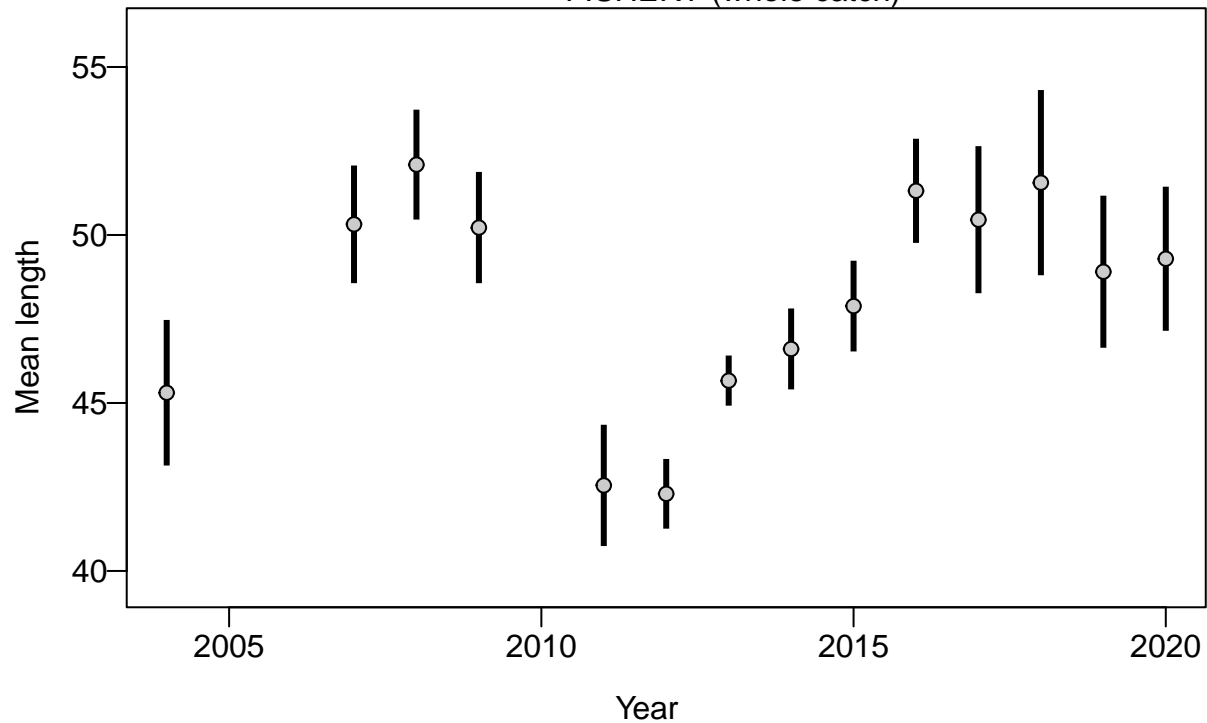
Proportion

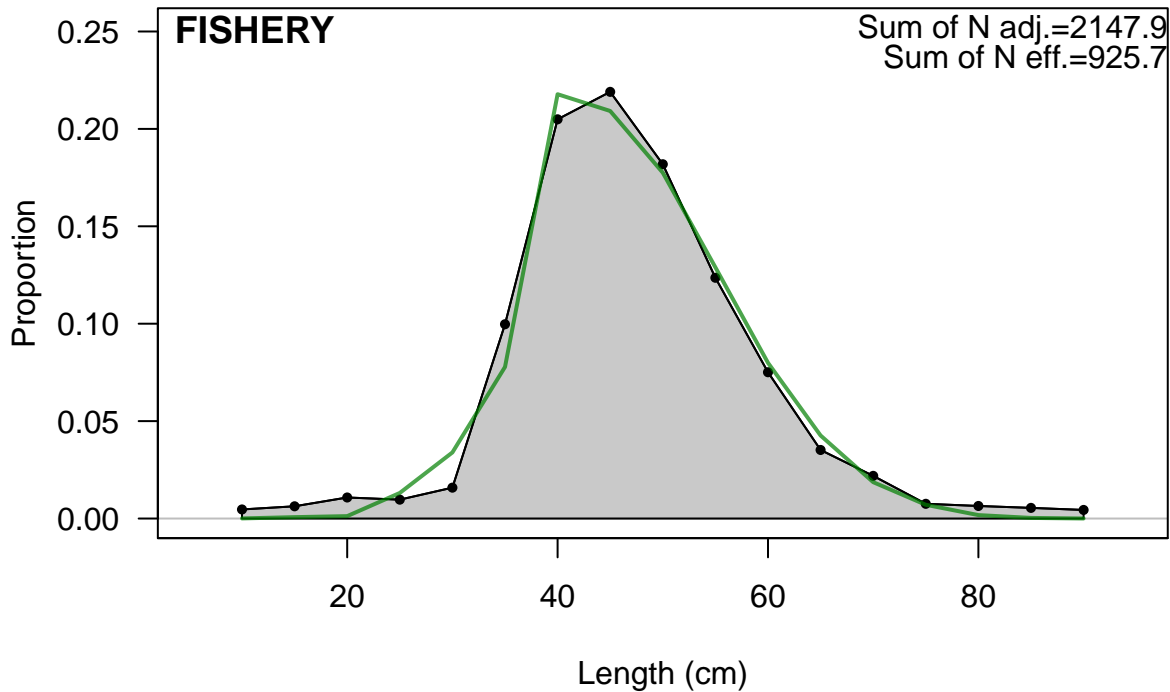


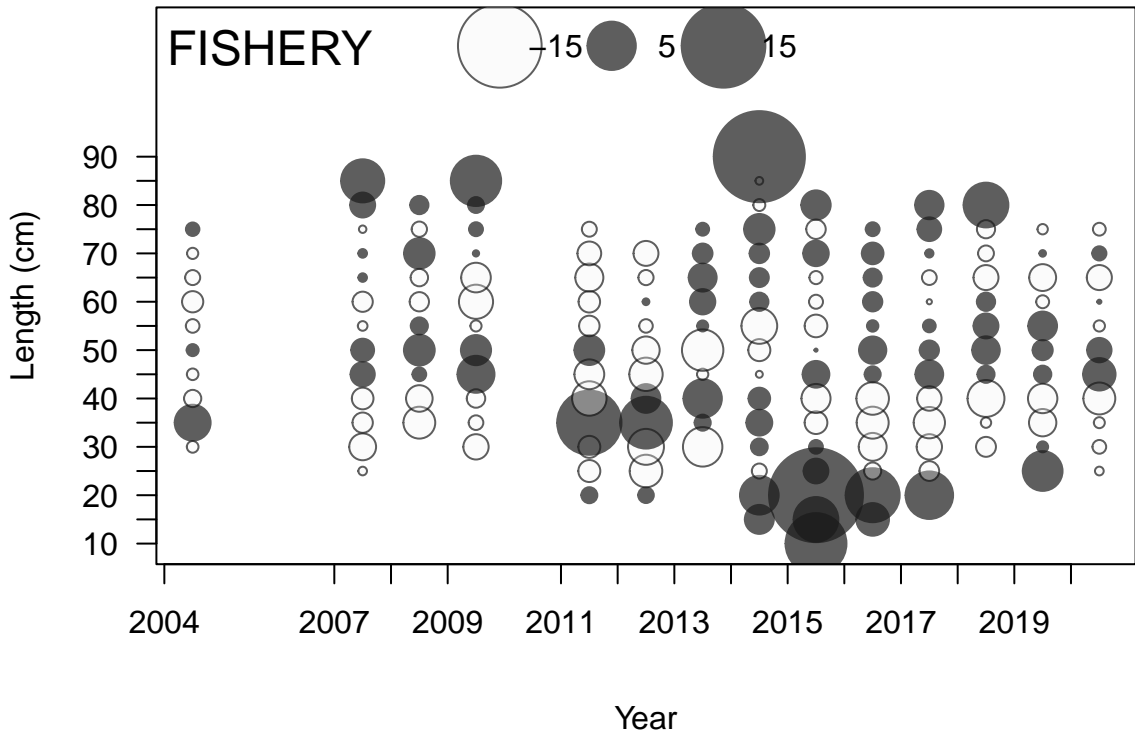
Length (cm)



FISHERY (whole catch)

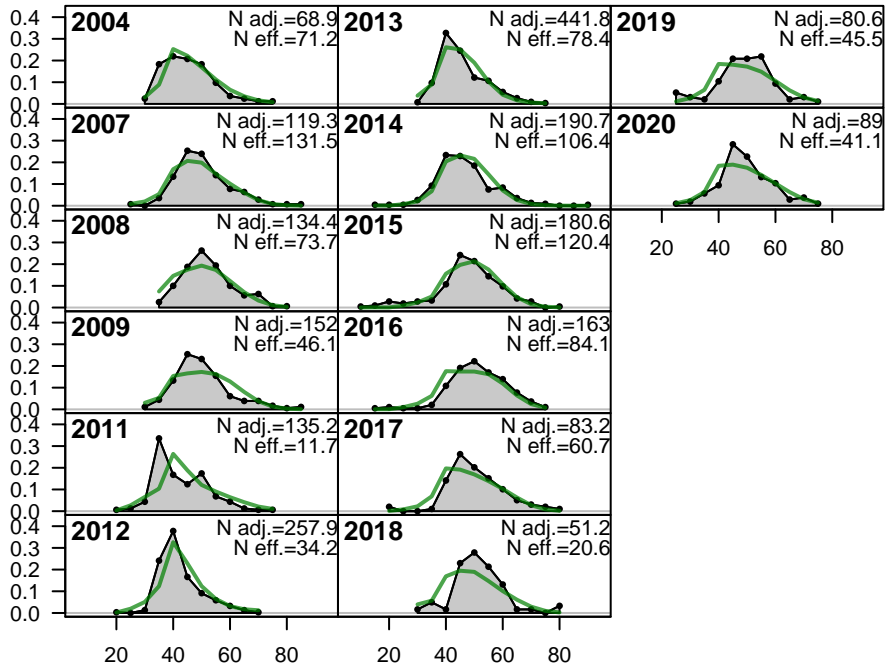






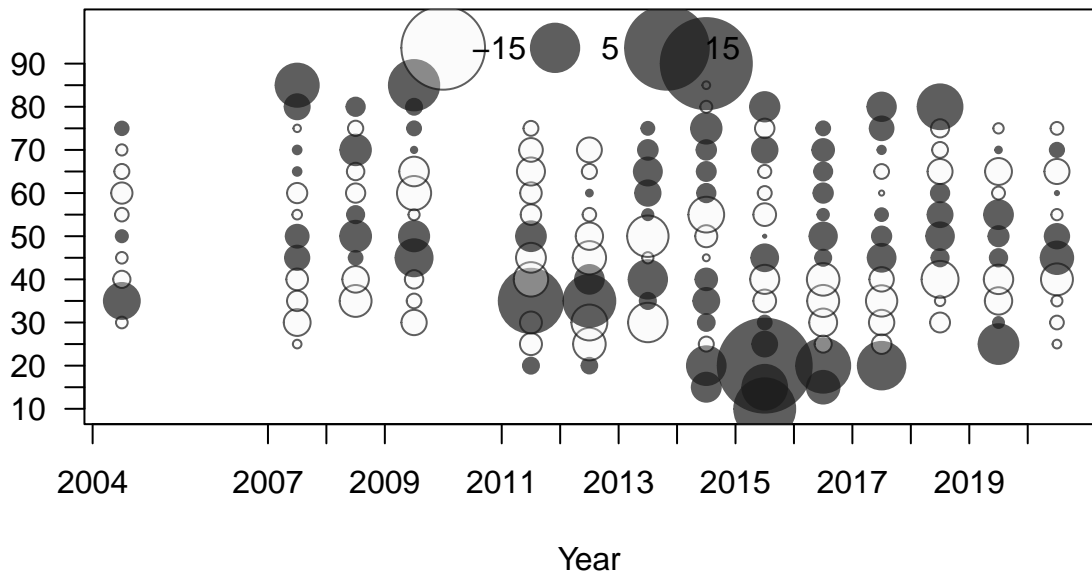


Proportion

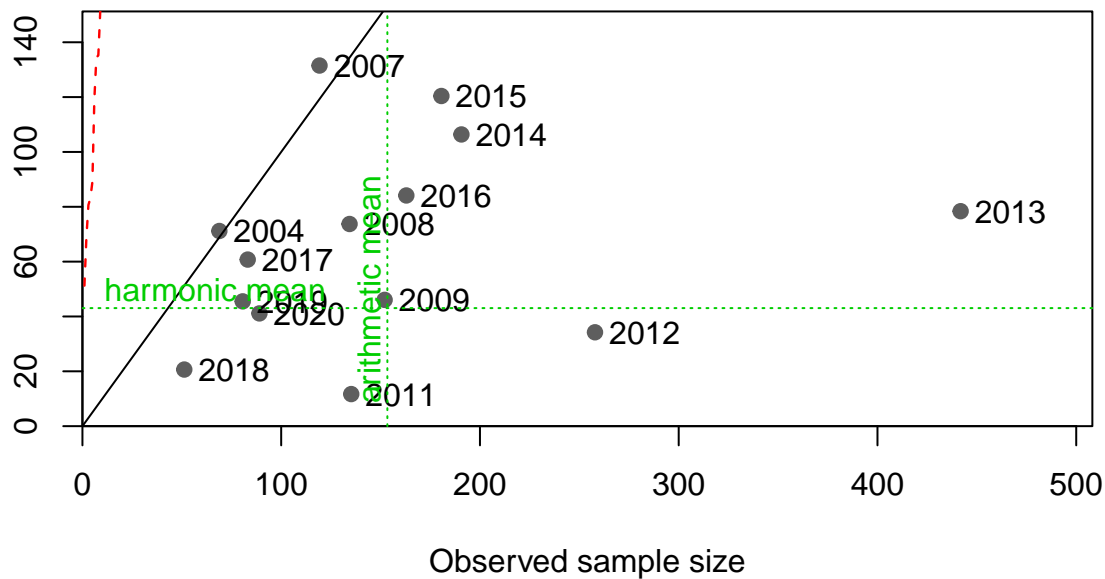


Length (cm)

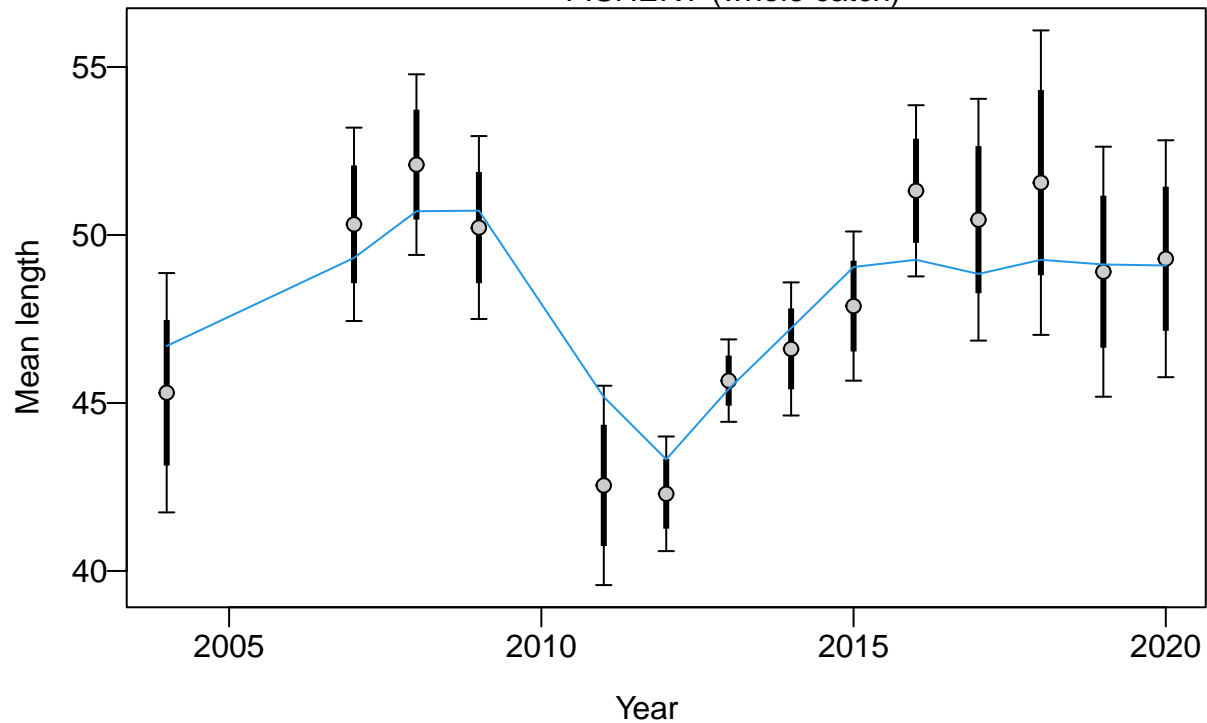
Length (cm)

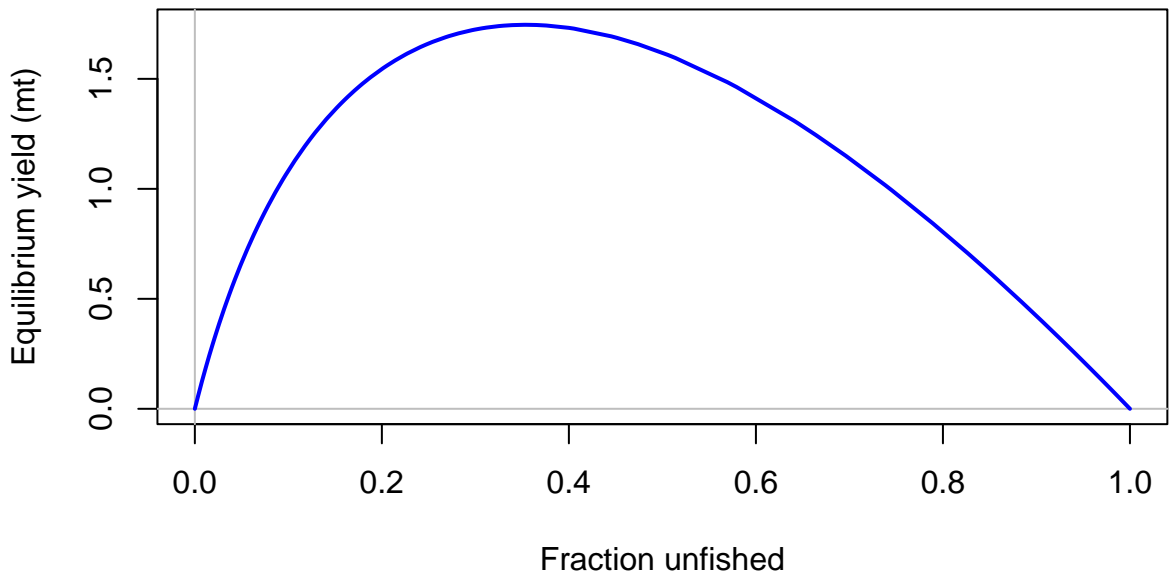


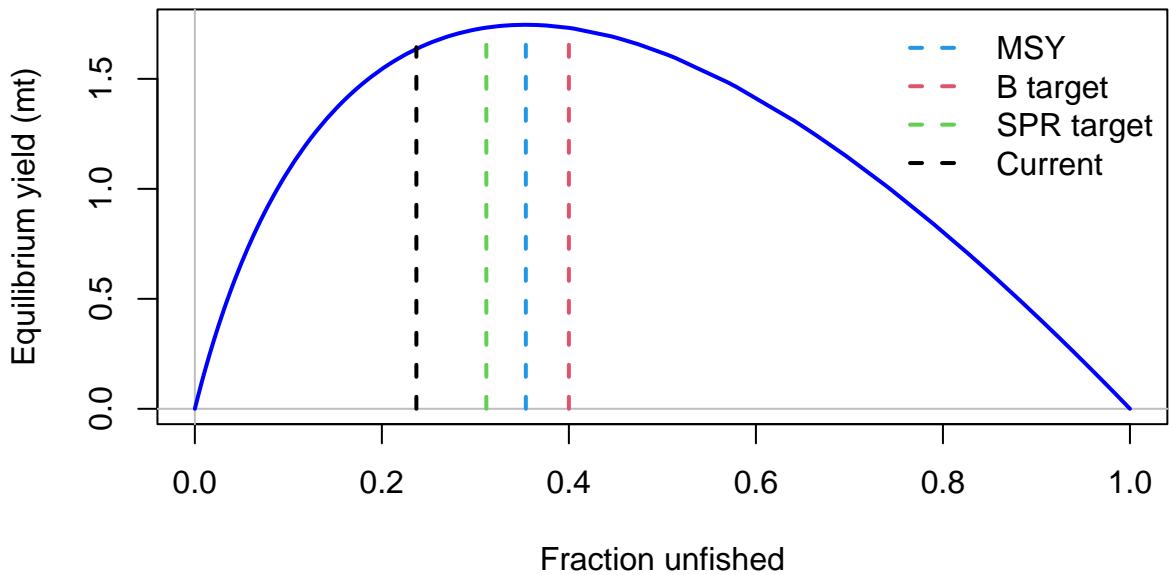
Effective sample size

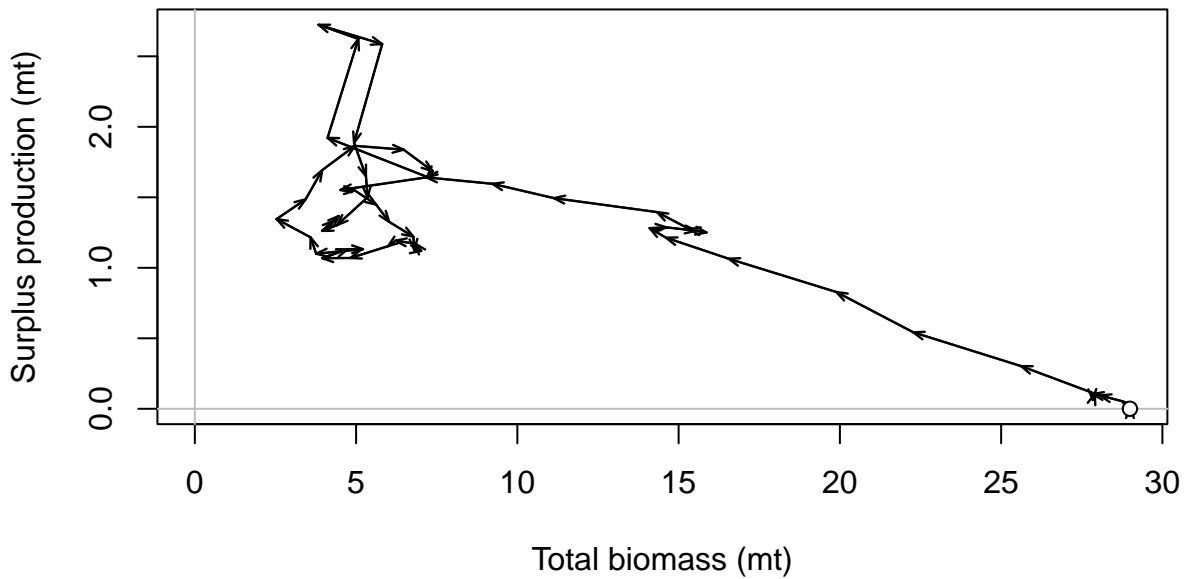


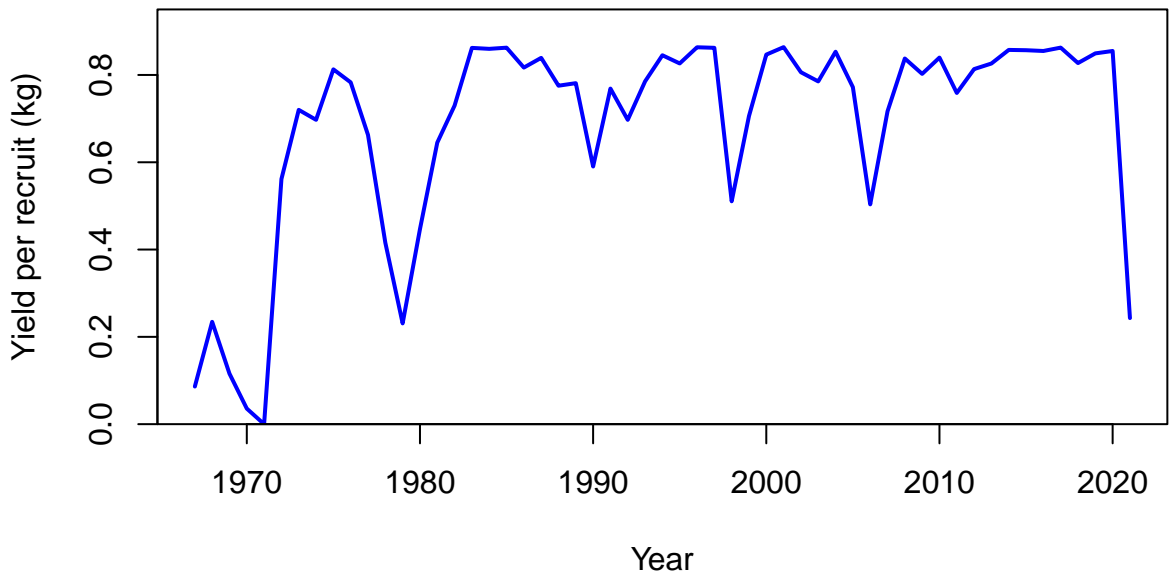
## FISHERY (whole catch)



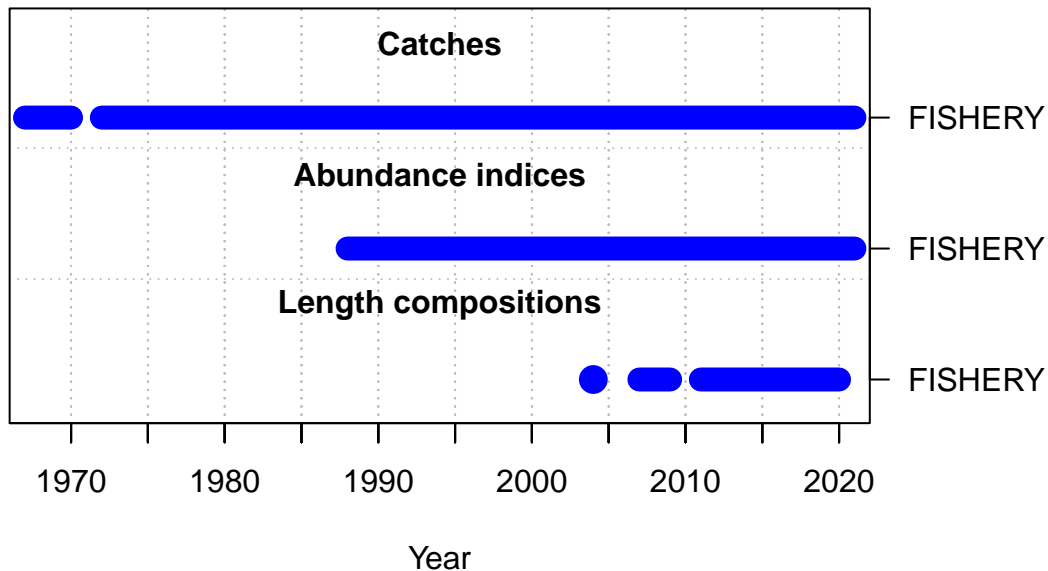


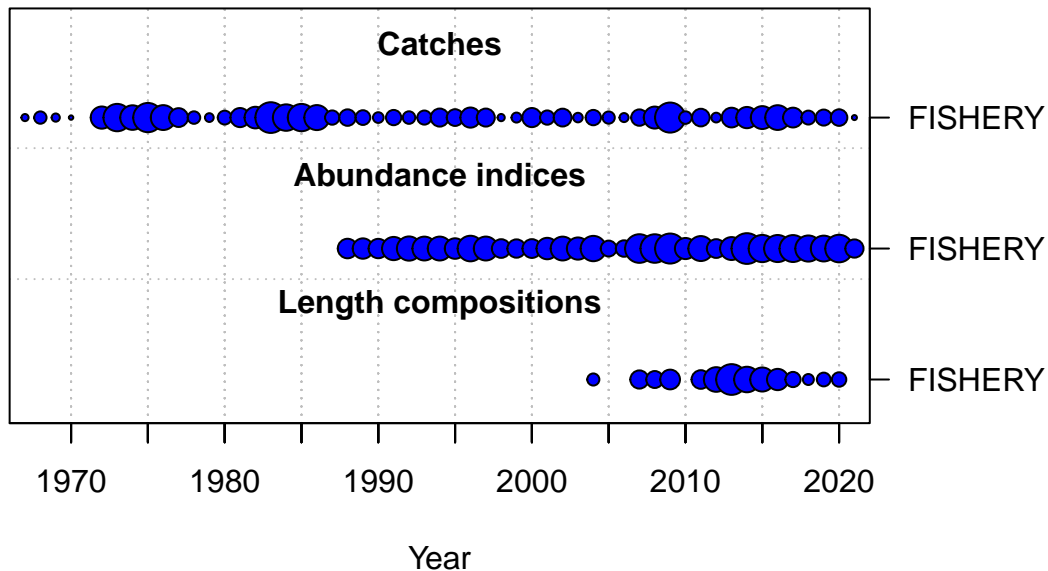










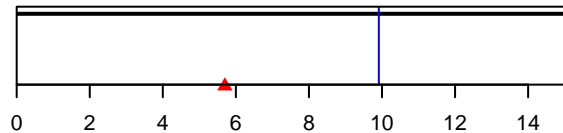


Density

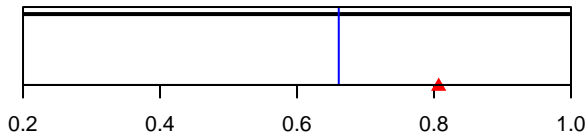
SR\_LN(R0)



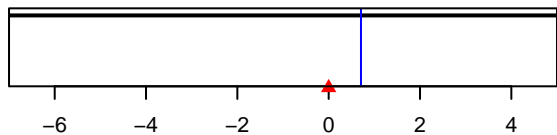
Size\_95%width\_FISHERY(1)



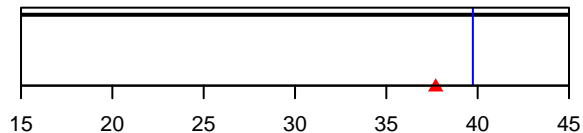
SR\_BH\_steep



LnQ\_base\_FISHERY(1)



Size\_inflection\_FISHERY(1)



Parameter value