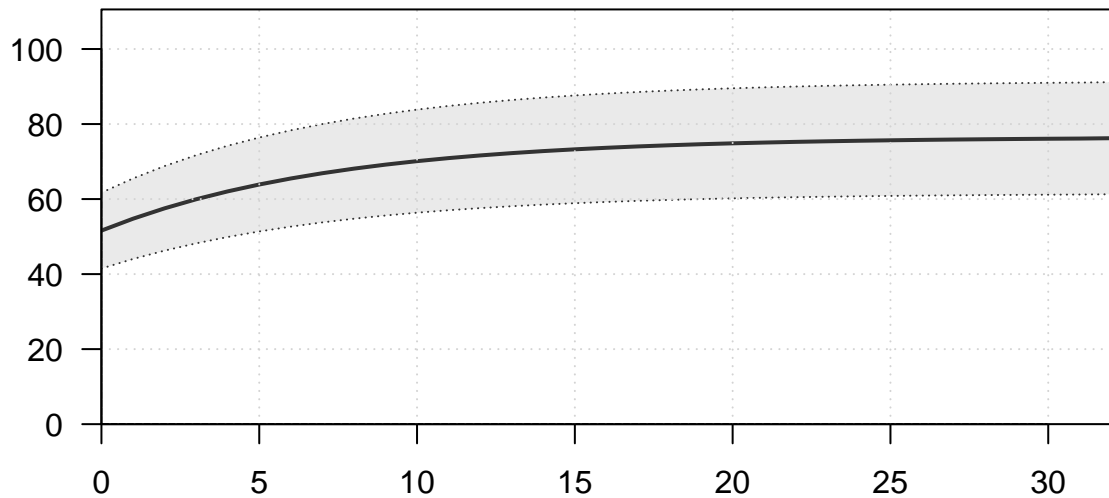
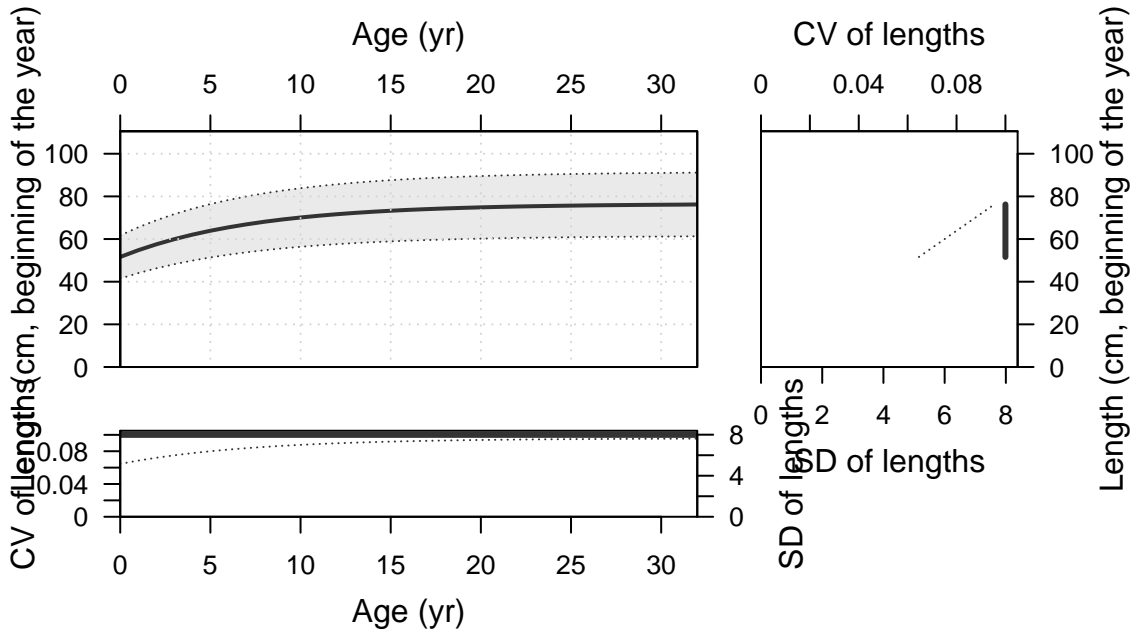


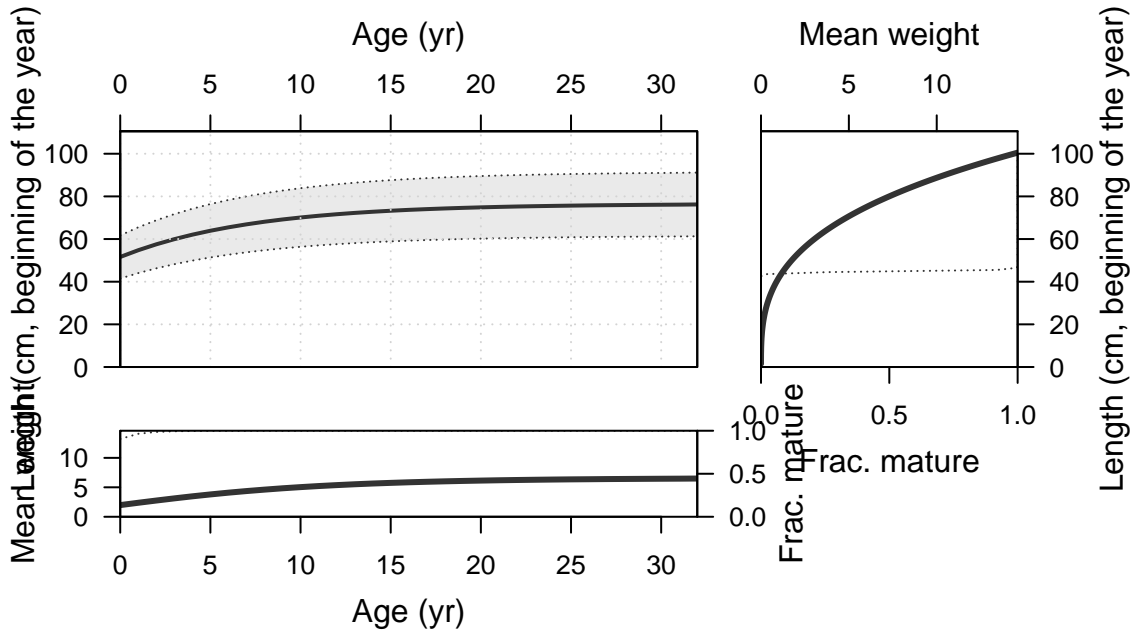
Plots created using the 'r4ss' package in R  
Stock Synthesis version: 3.30.19.0  
StartTime: Sun Jul 24 10:01:38 2022  
Data\_File: data.ss  
Control\_File: control.ss

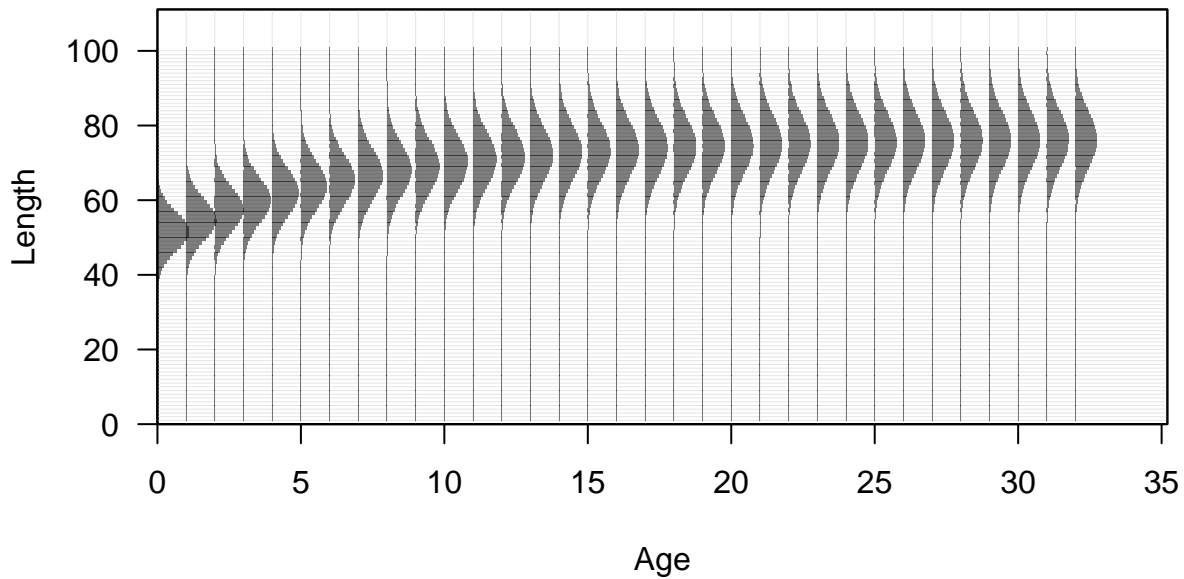
Length (cm, beginning of the year)

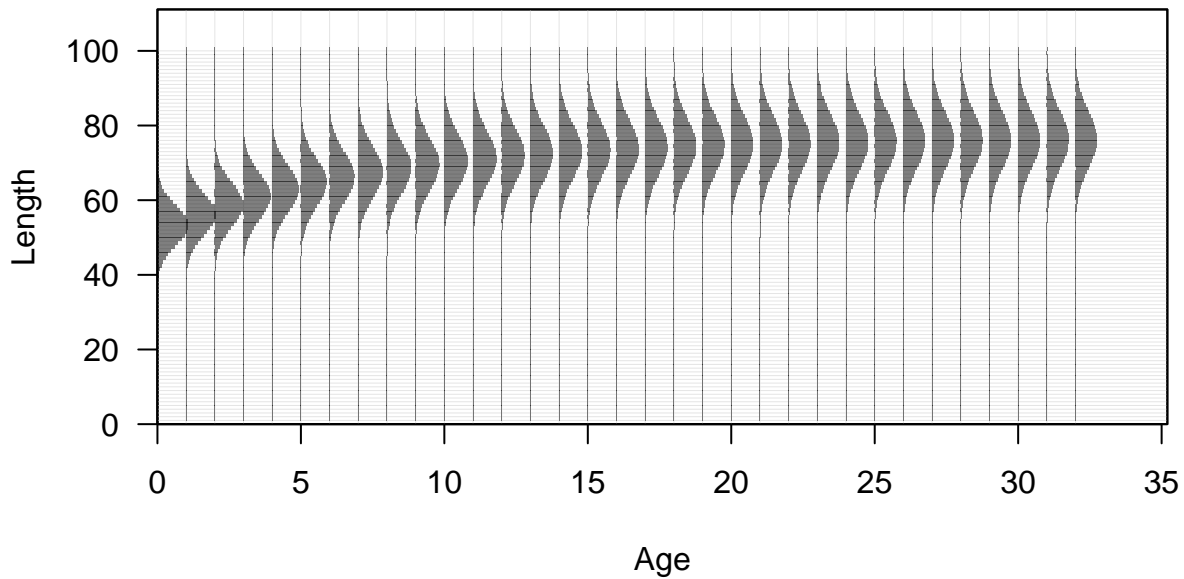


Age (yr)

















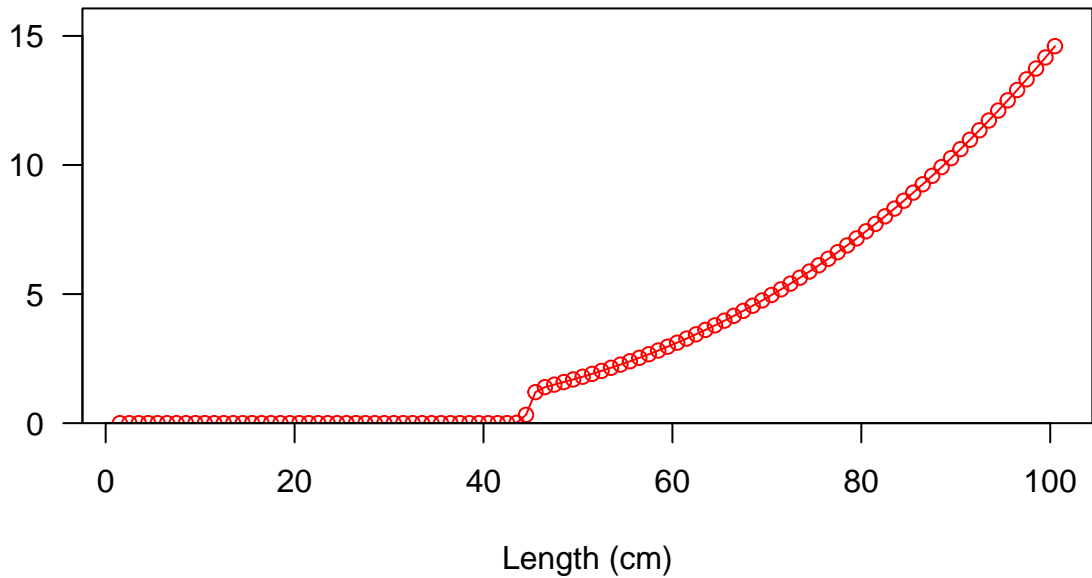
Fecundity

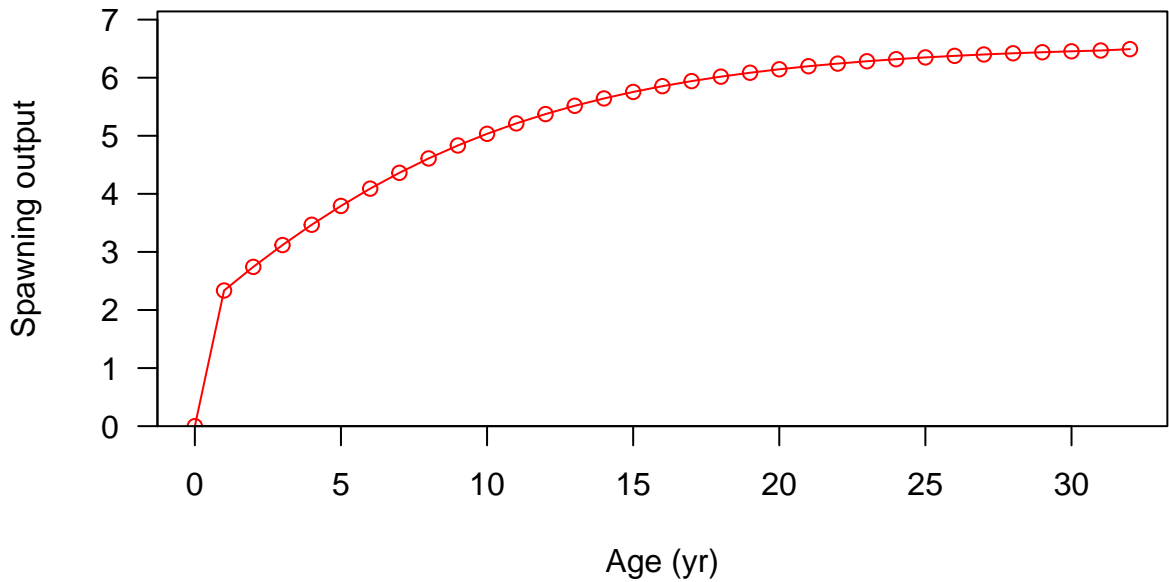


Fecundity

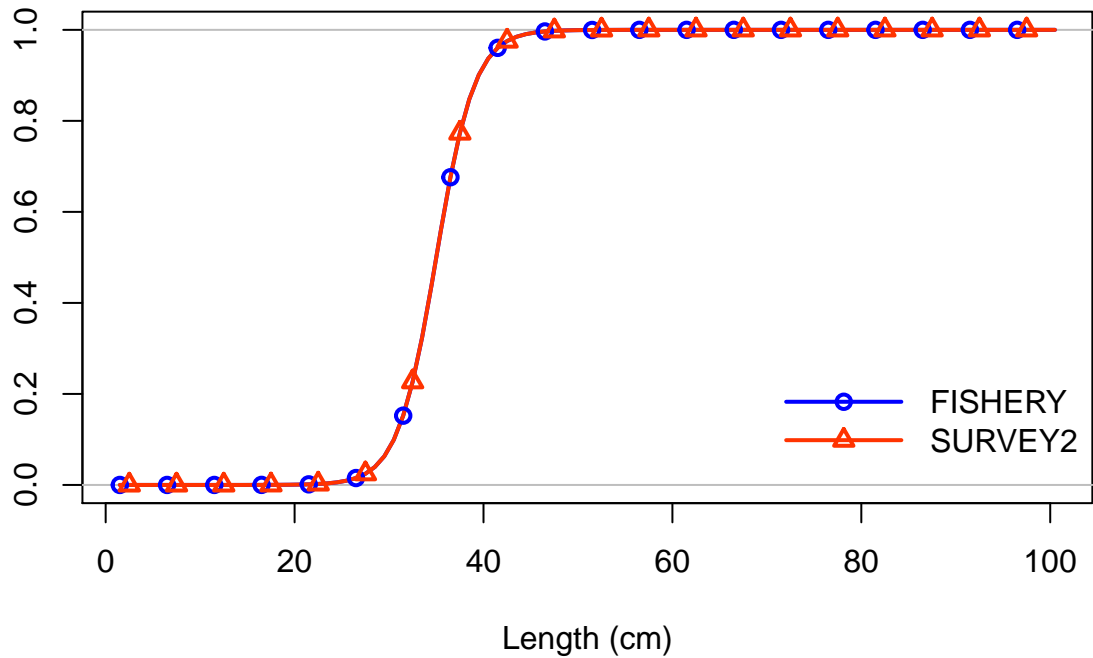


Spawning output

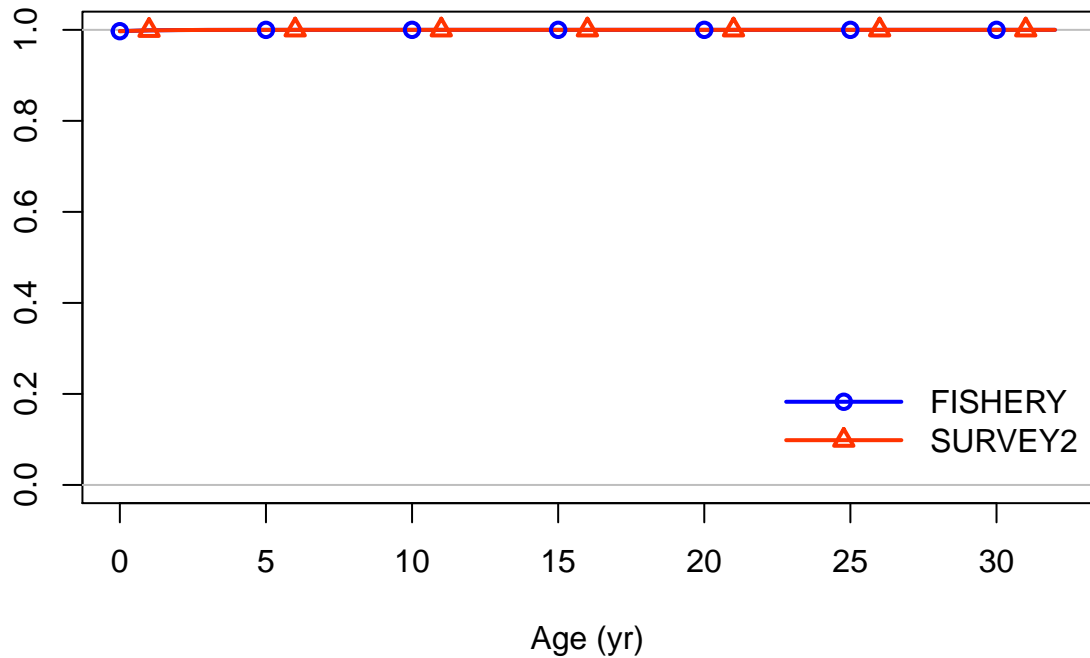




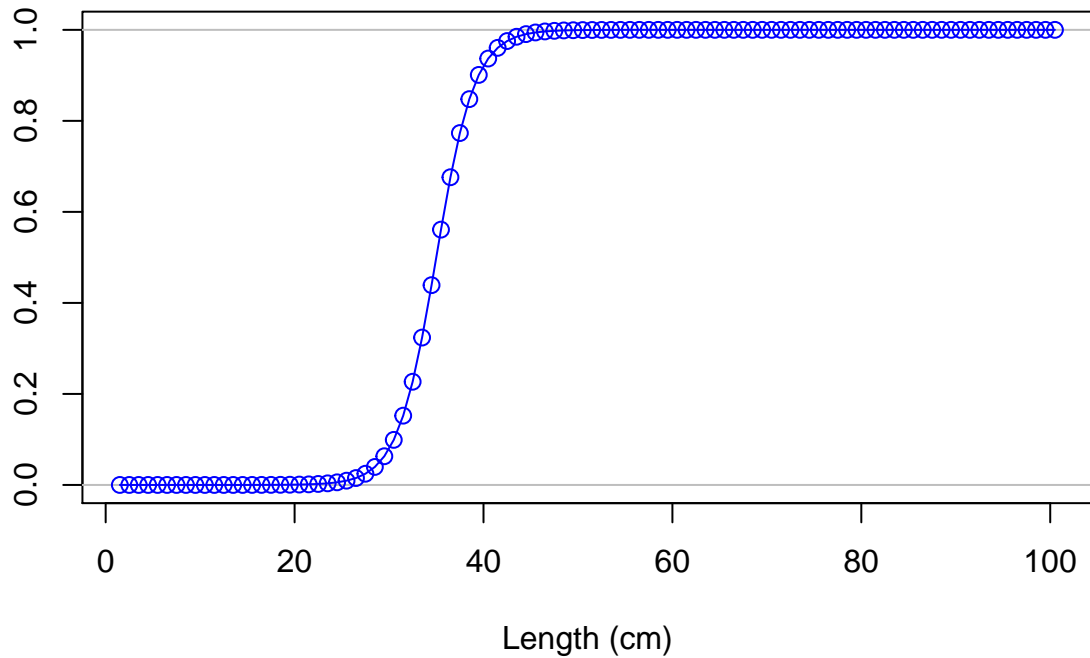
Selectivity



Selectivity

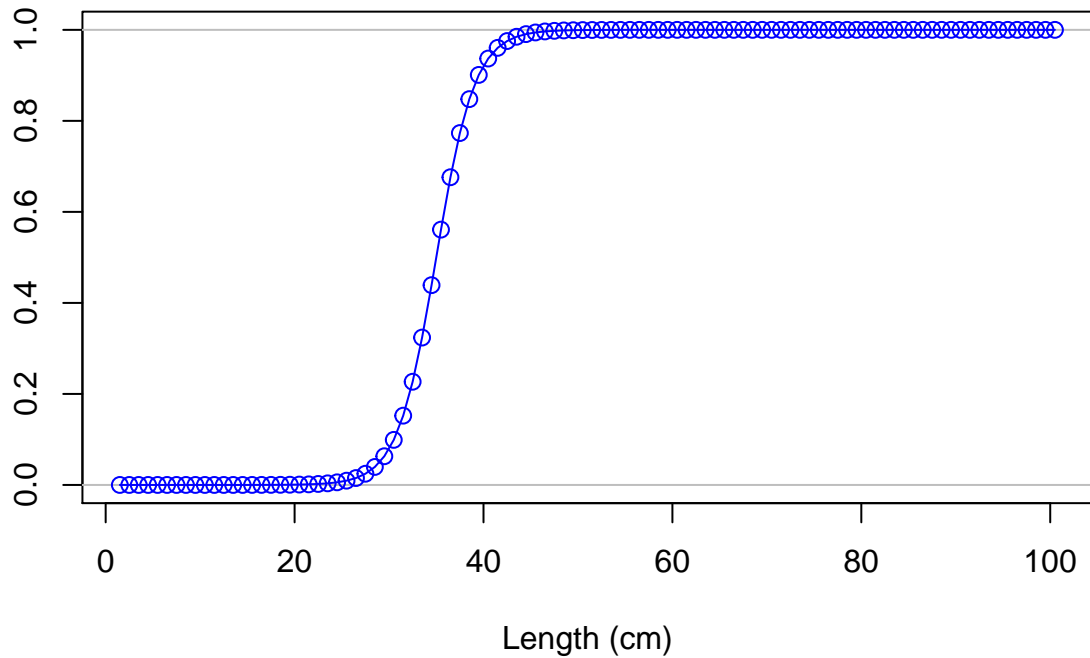


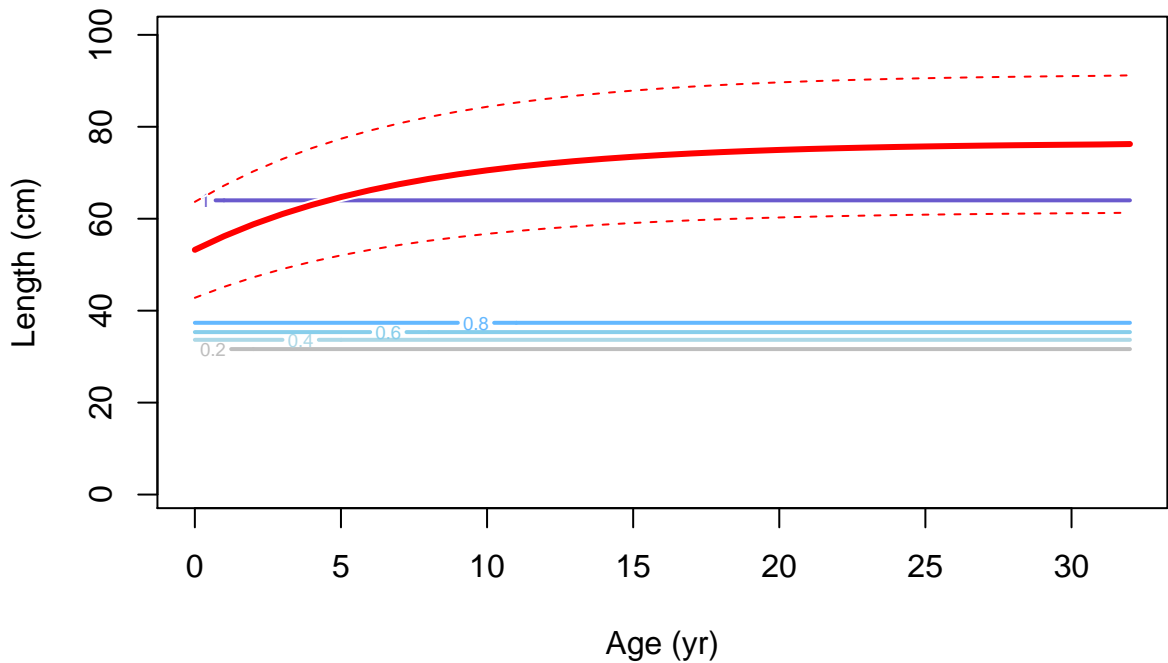
Selectivity

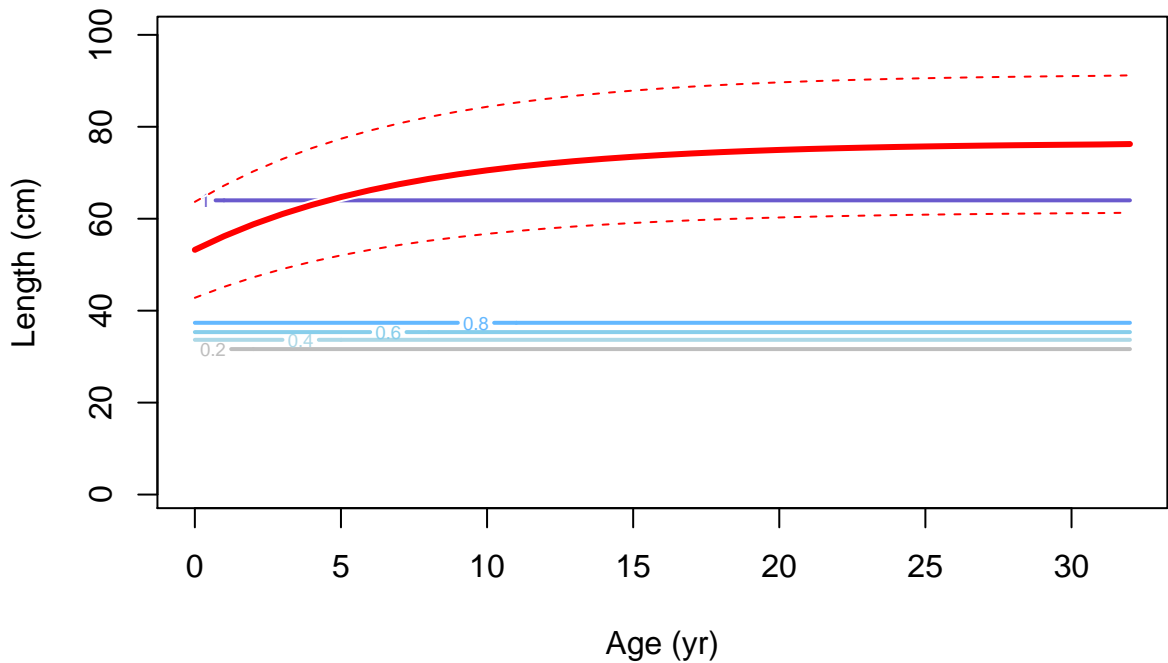


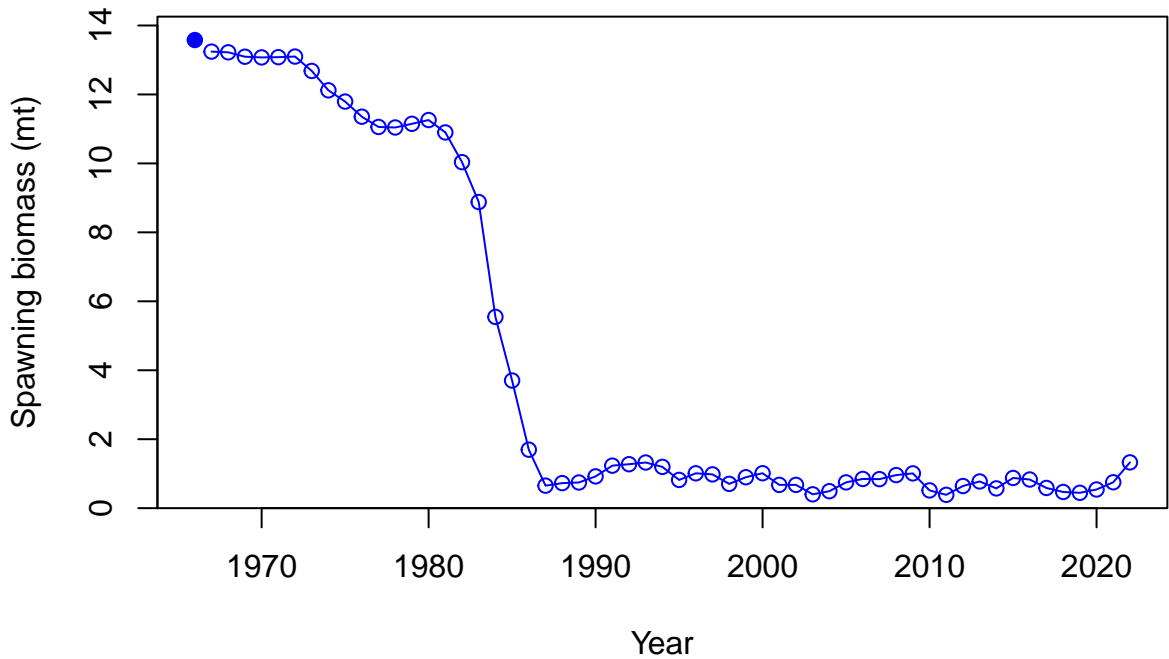


Selectivity

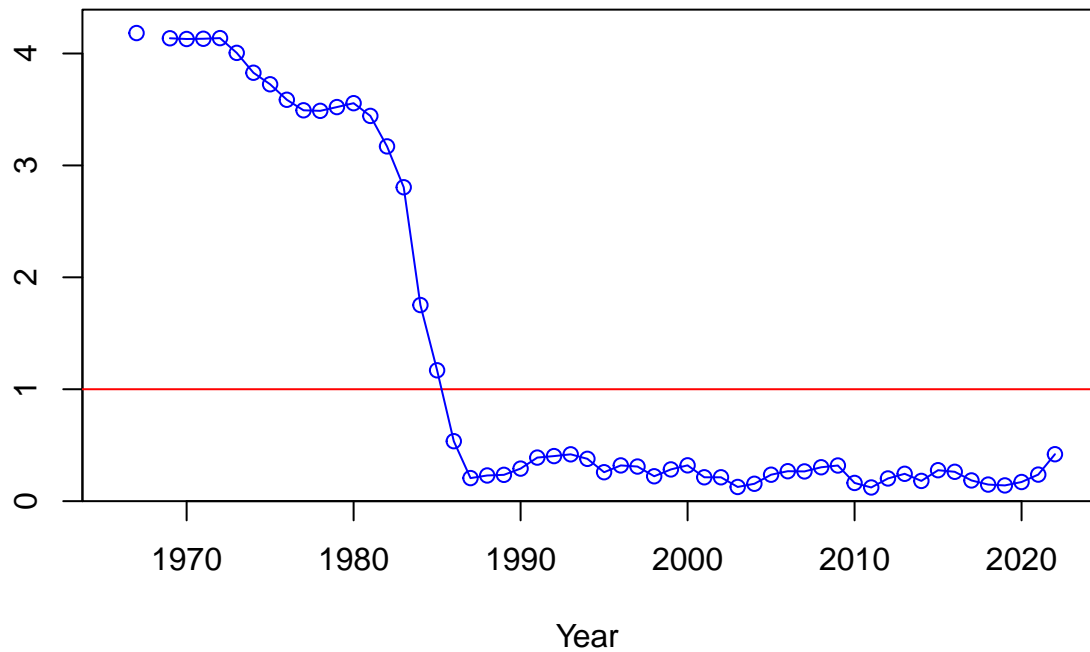


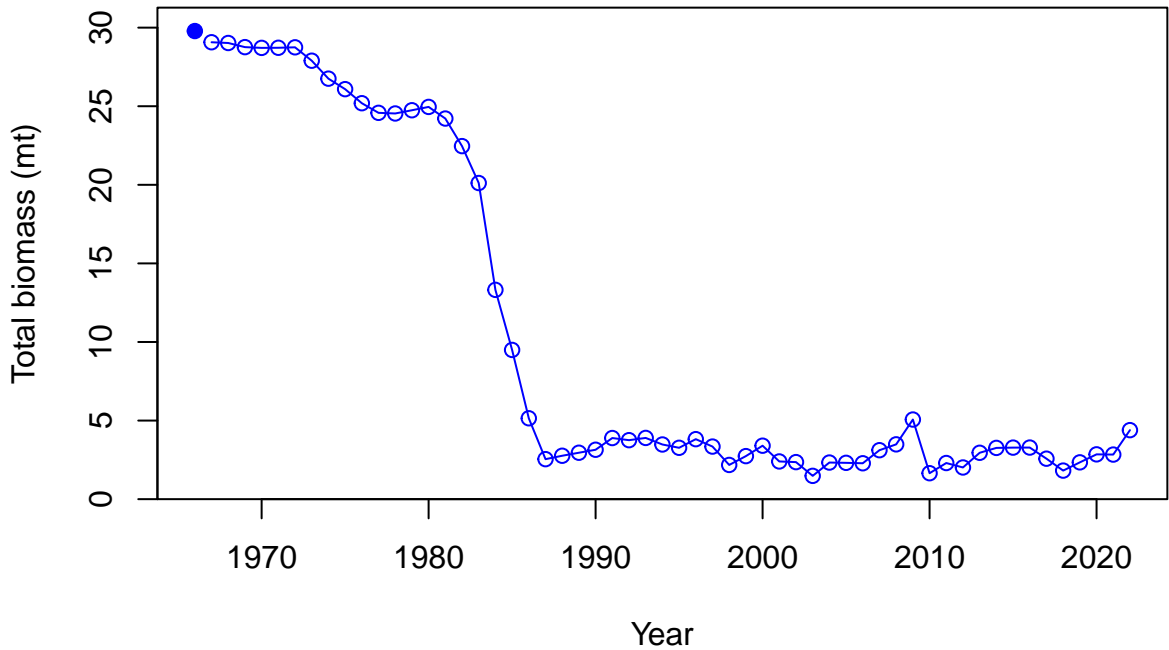


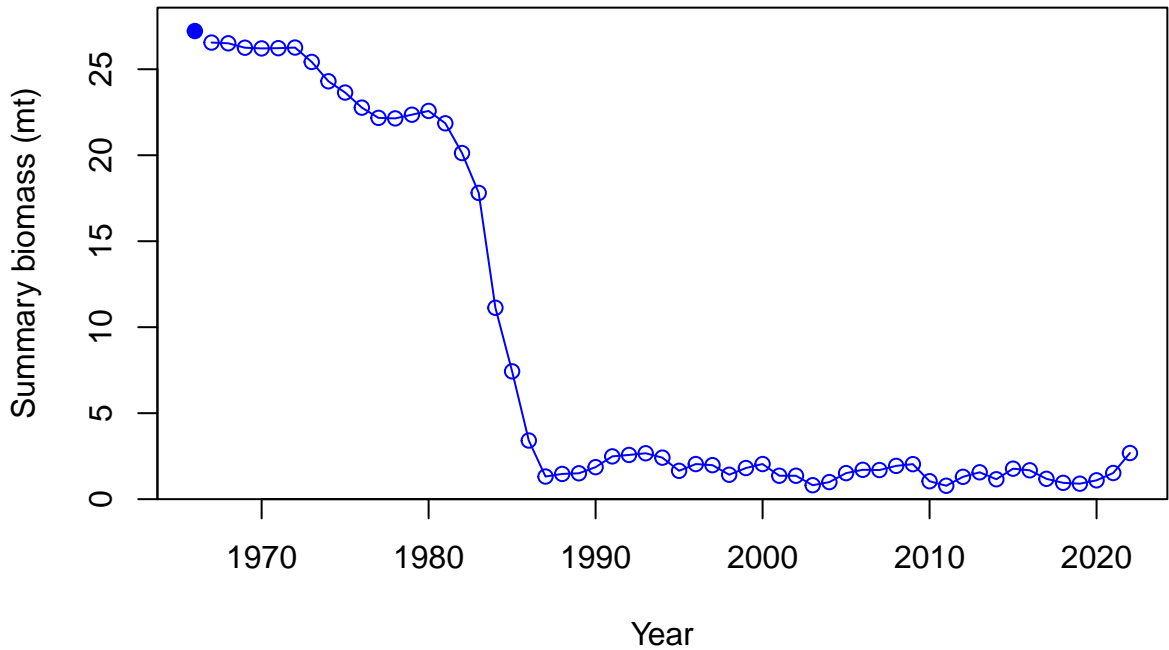




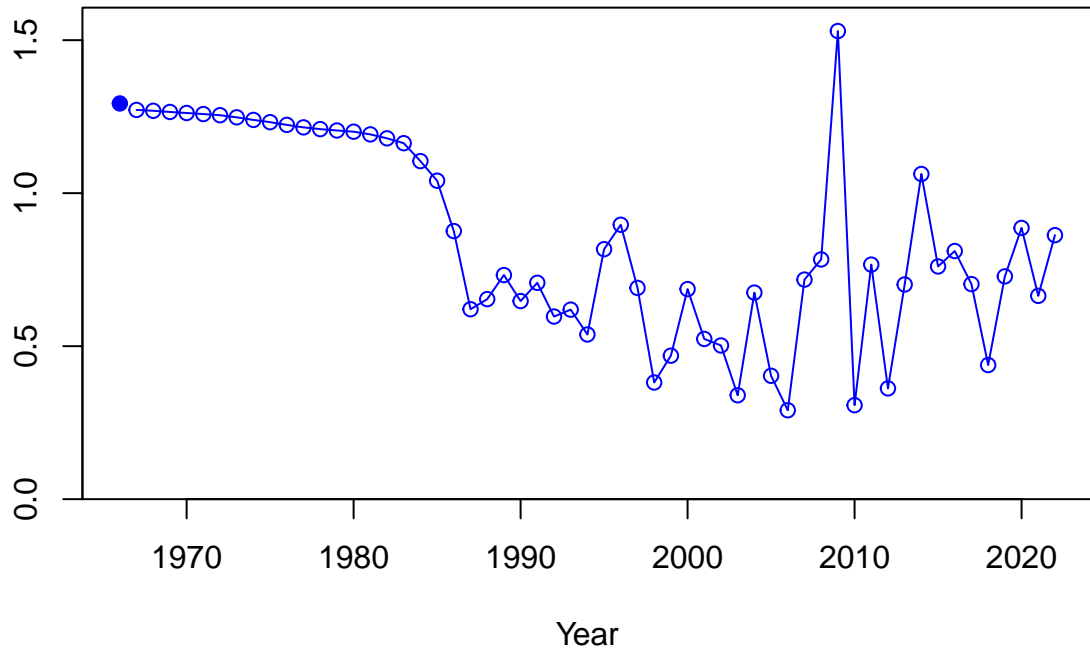
Relative spawning biomass:  $B/B_{MSY}$





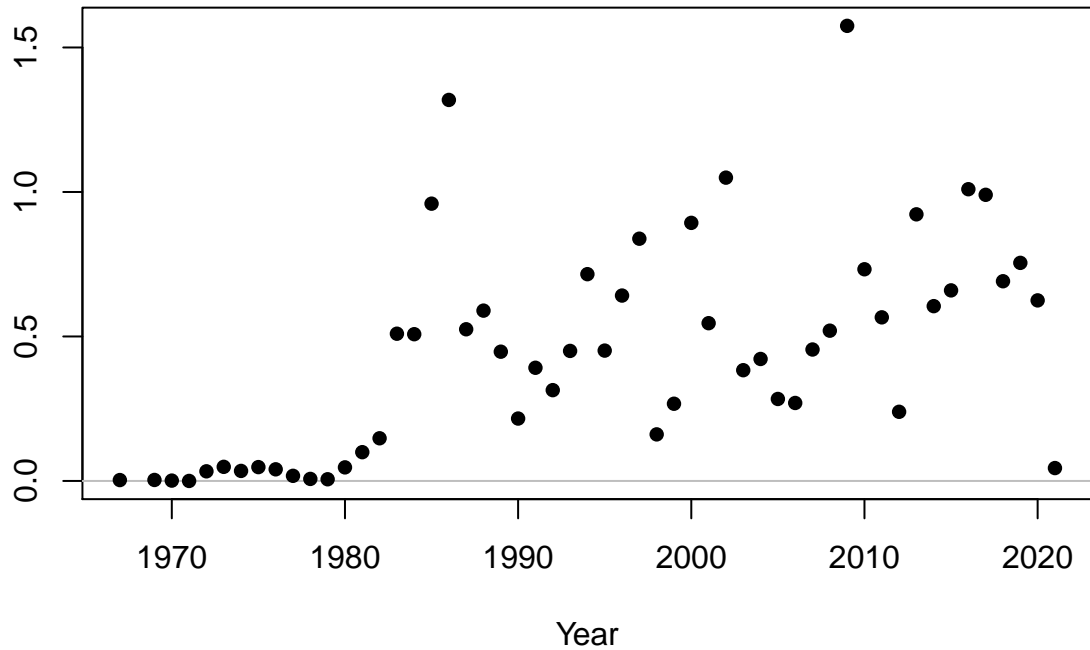


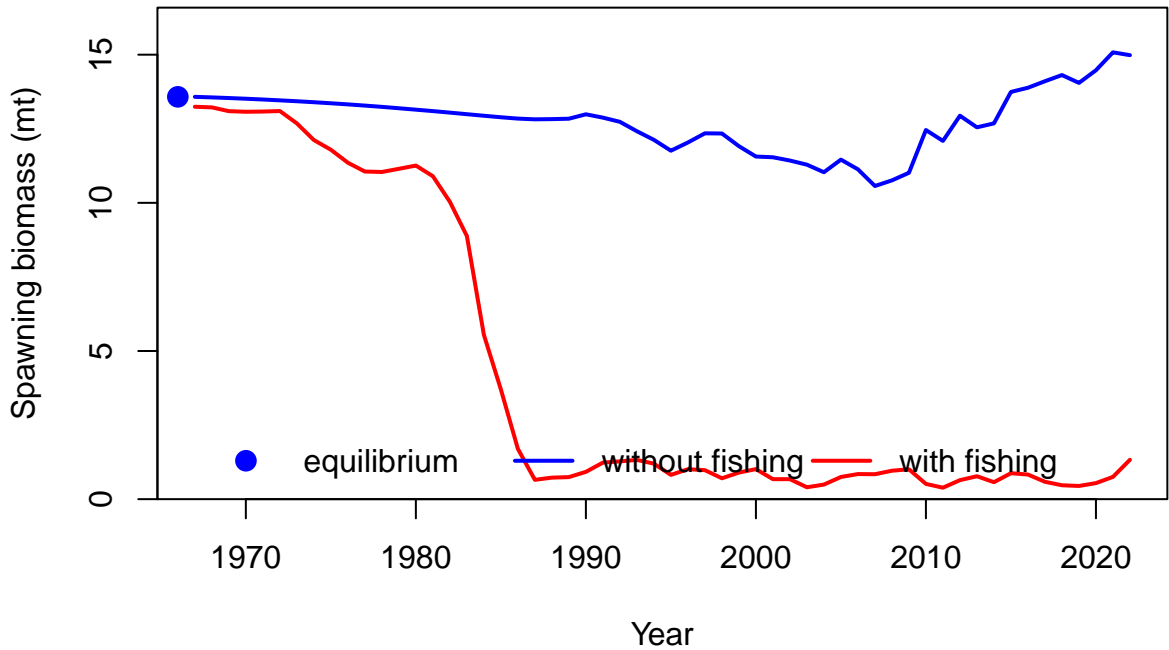
Age-0 recruits (1,000s)





Summary Fishing Mortality





Log recruitment deviation

0.5  
0.0  
-0.5

1970

1980

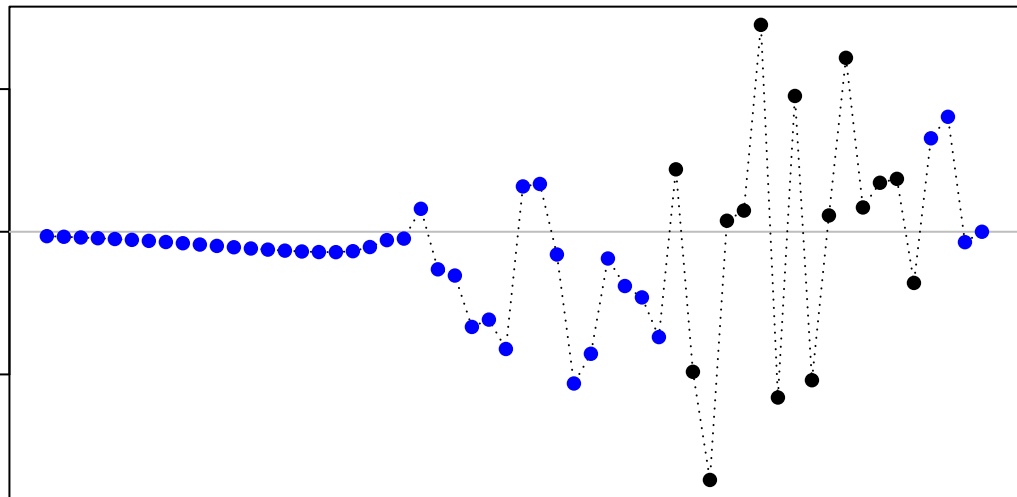
1990

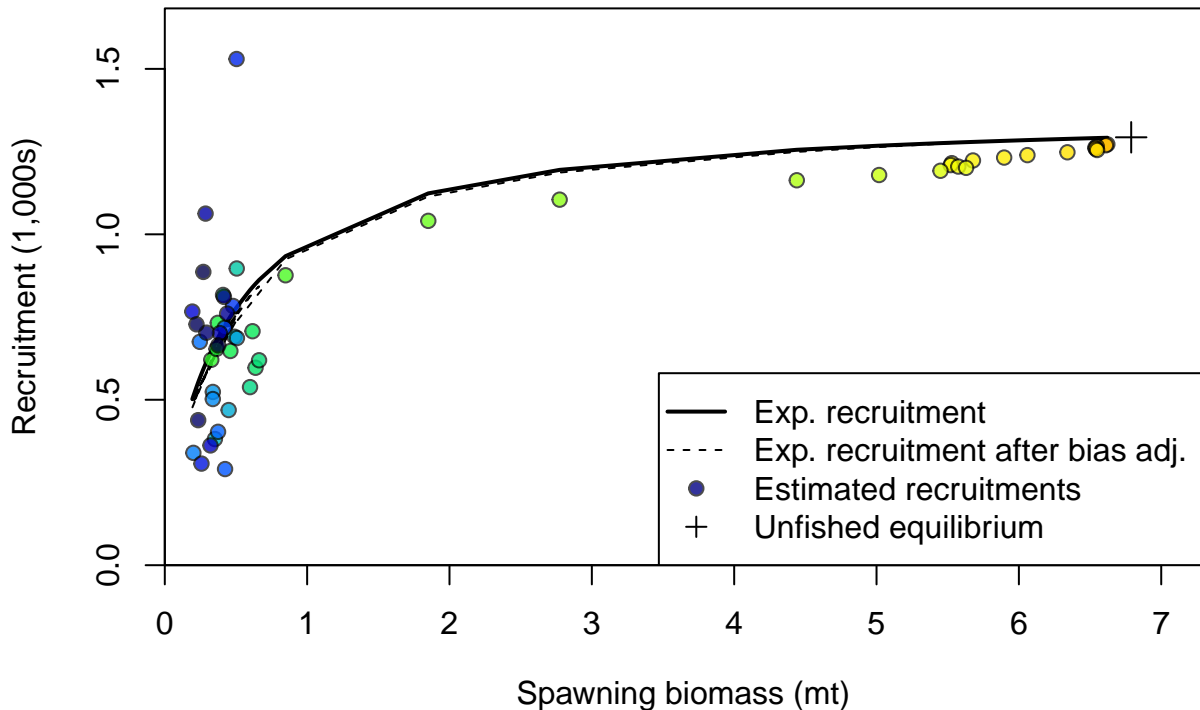
2000

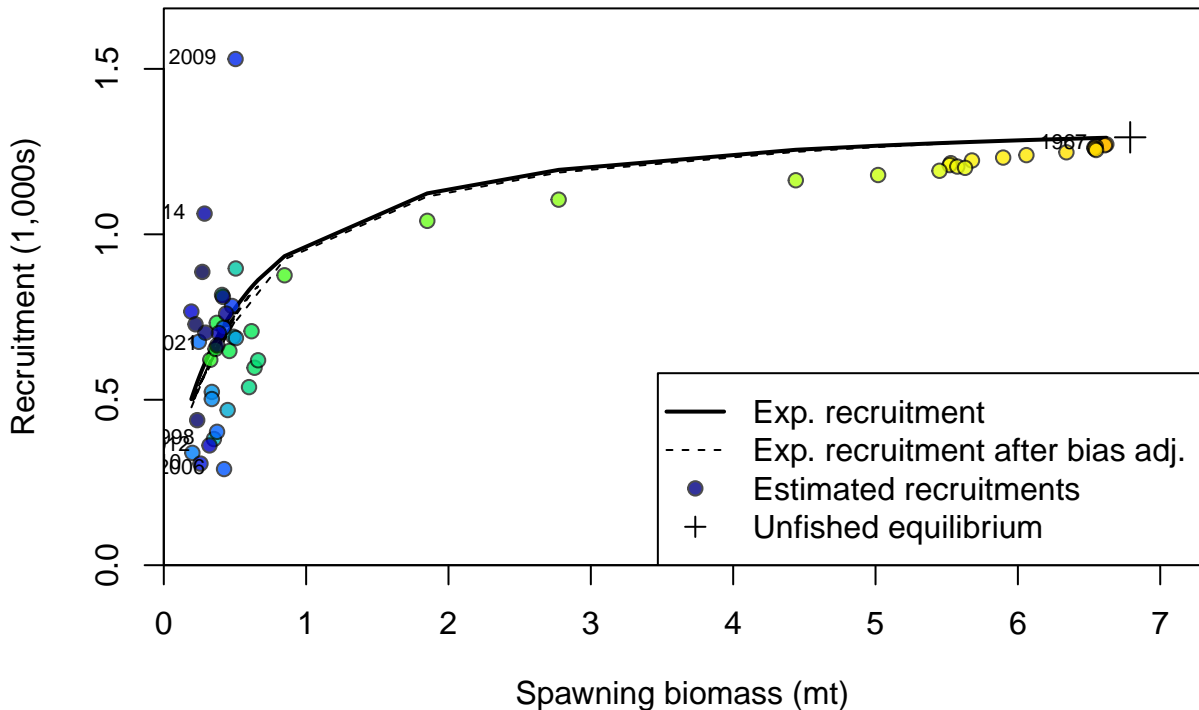
2010

2020

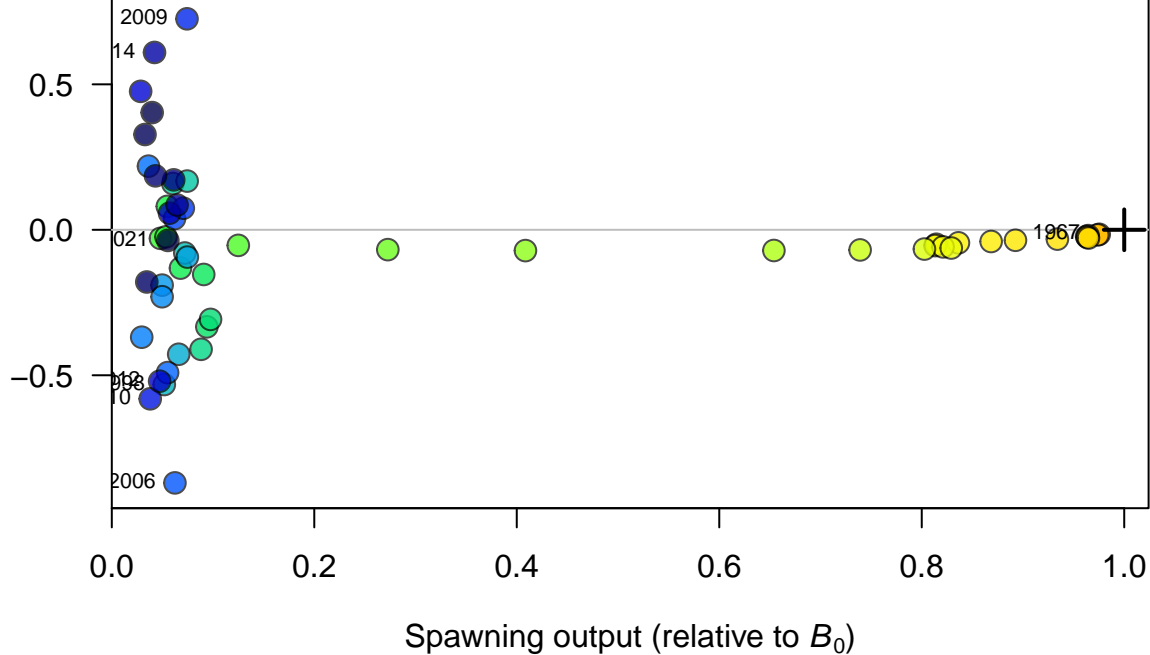
Year

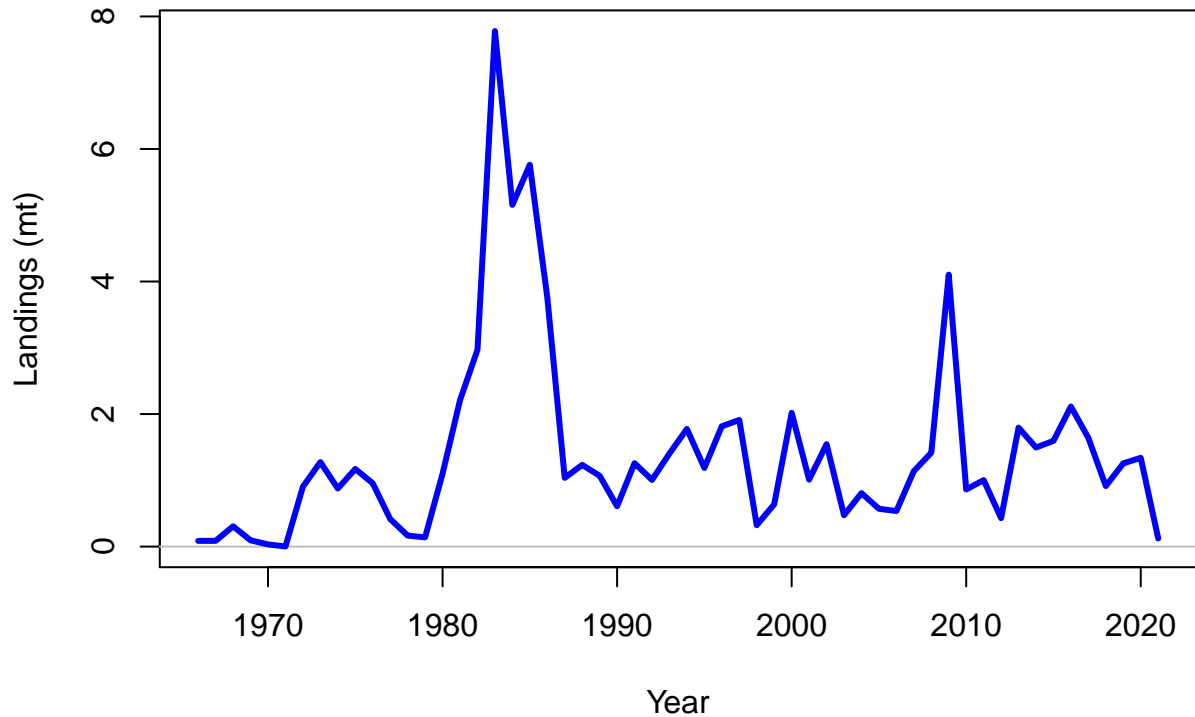


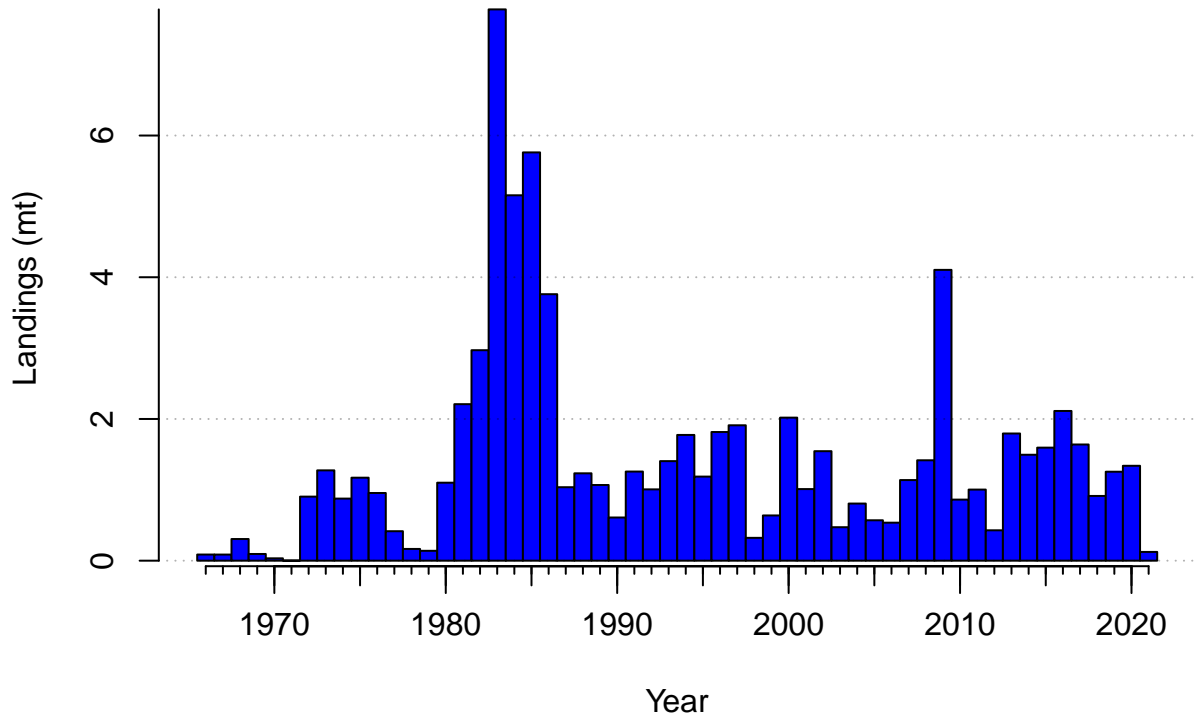




Log recruitment deviation

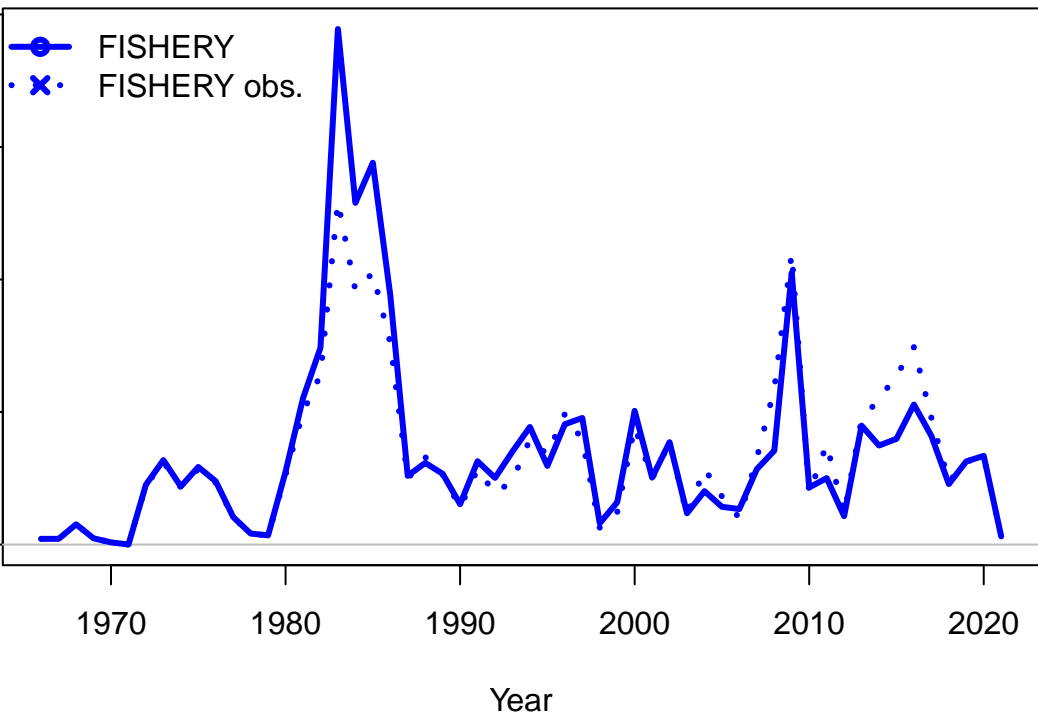


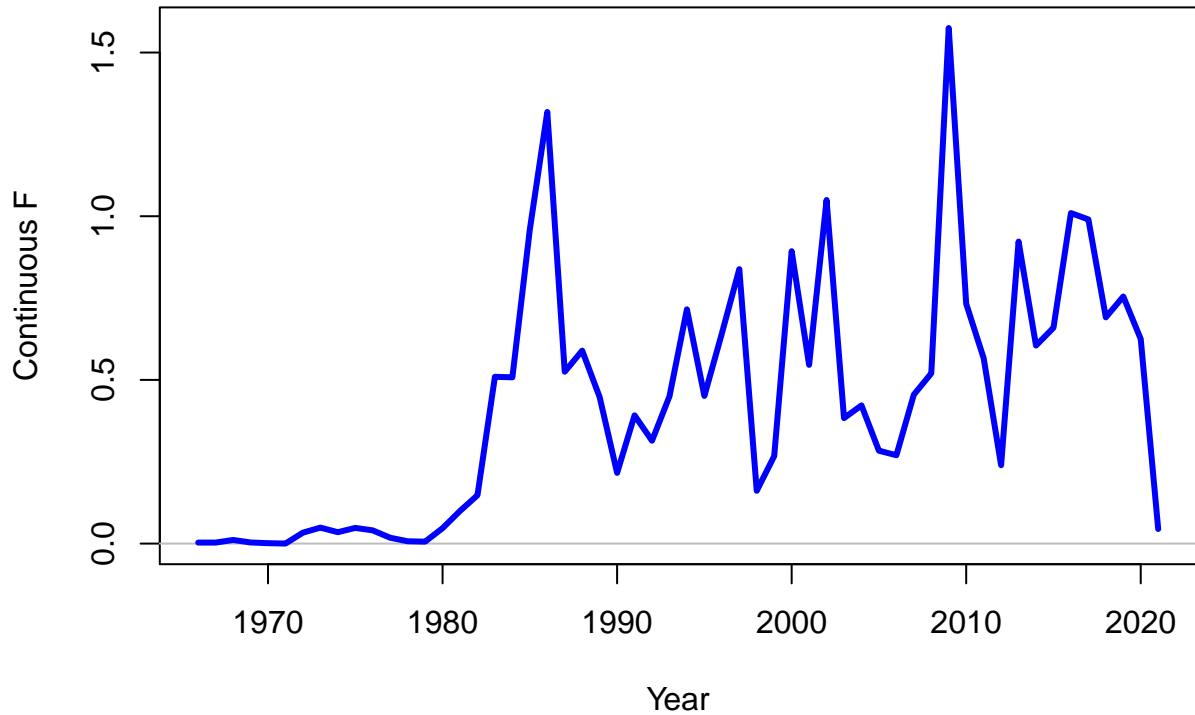




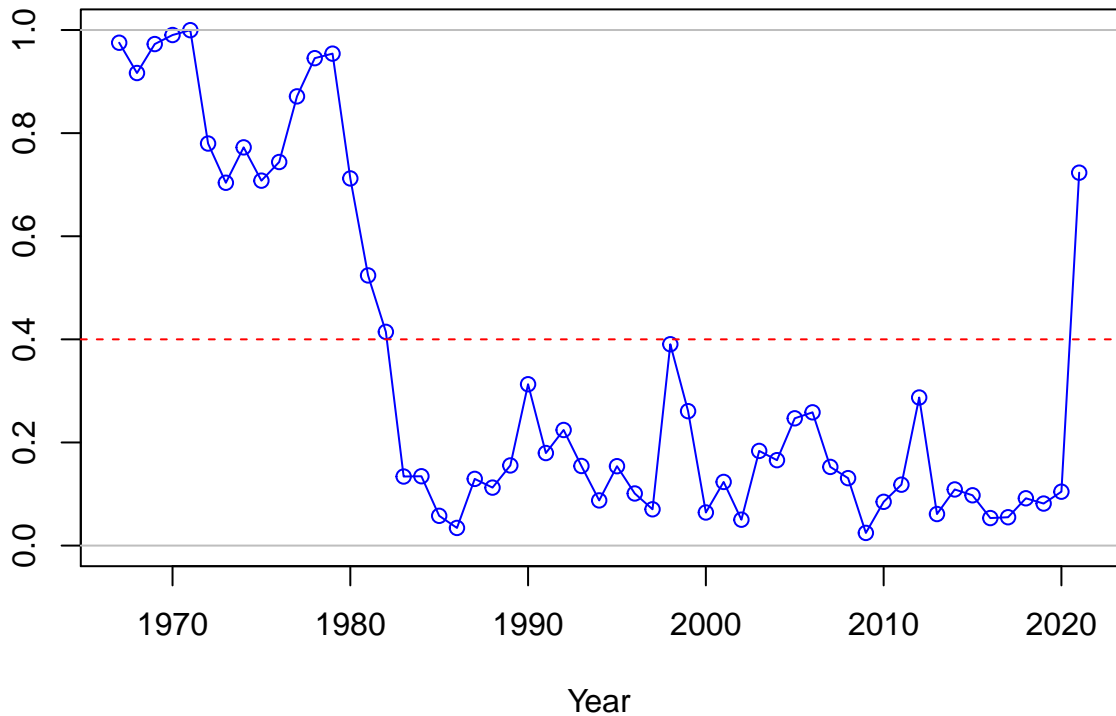


Observed and expected Landings (mt)

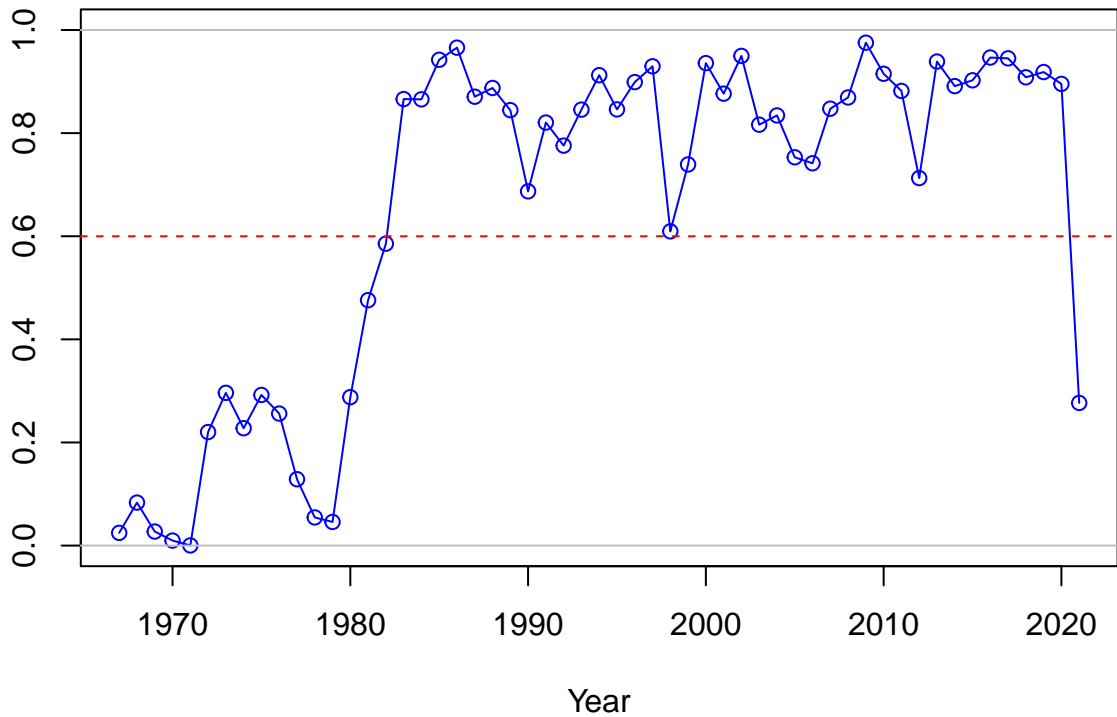




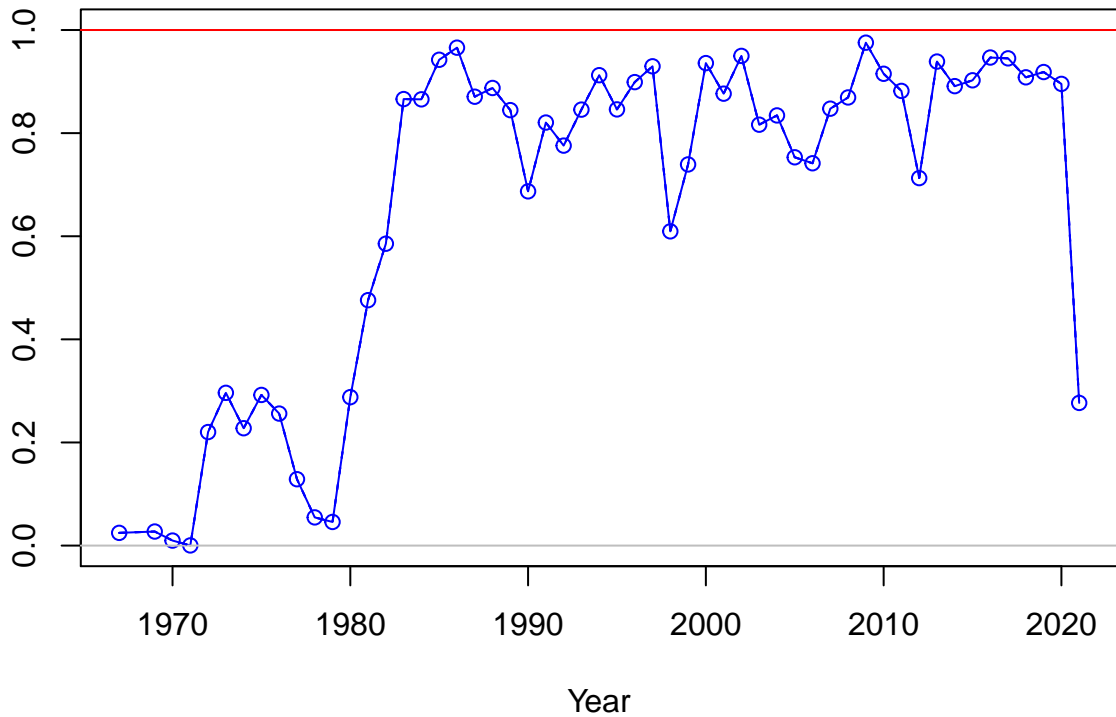
SPR



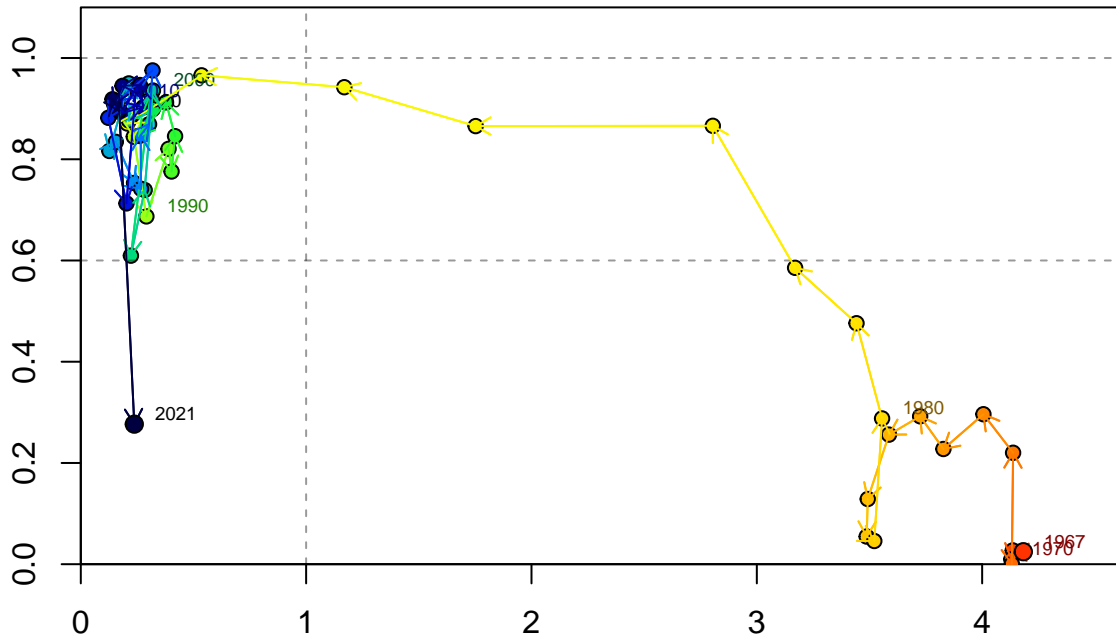
1-SPR



Fishing intensity: 1-SPR

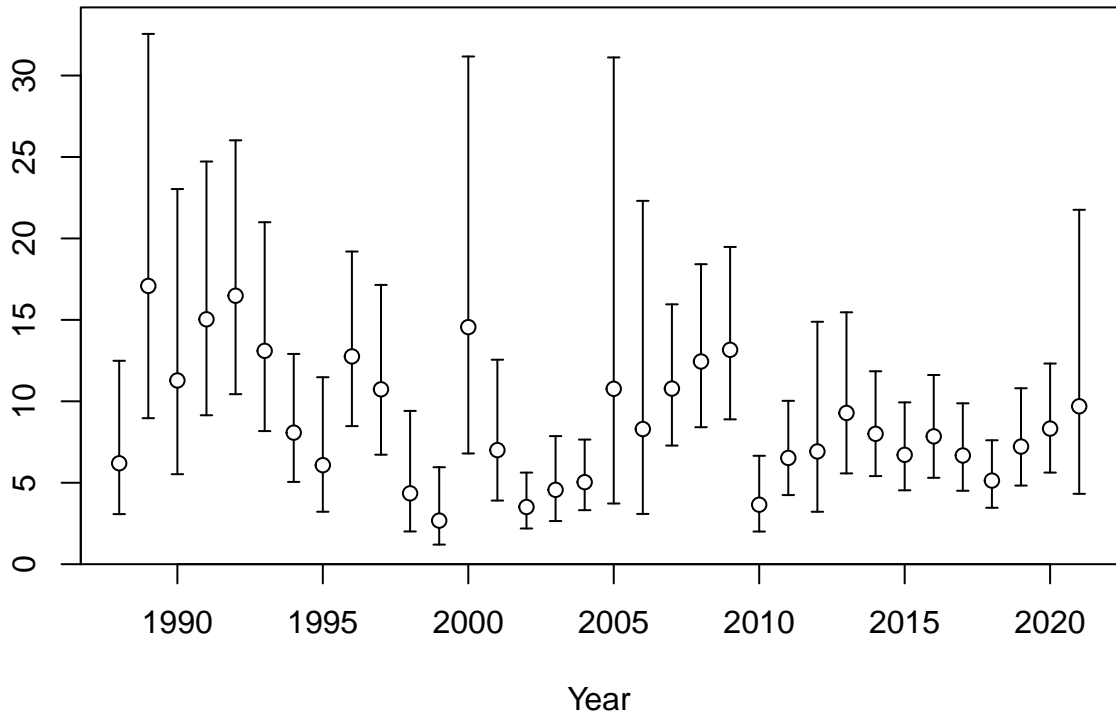


Fishing intensity: 1-SPR

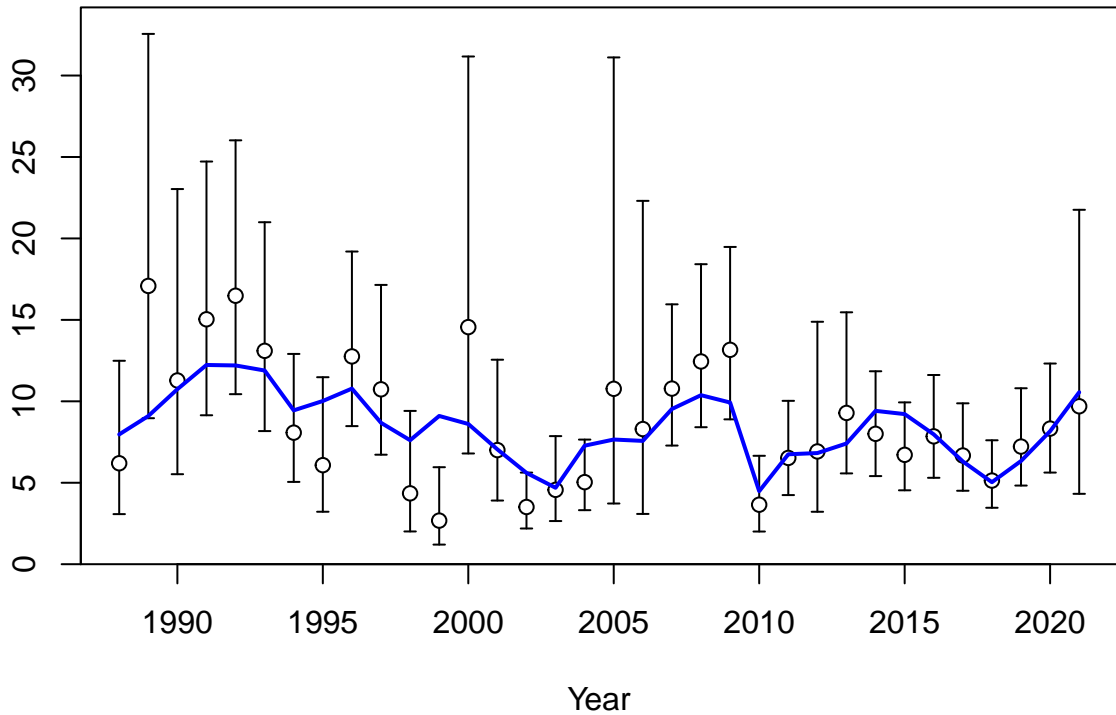


Relative spawning output:  $B/B_{MS}$

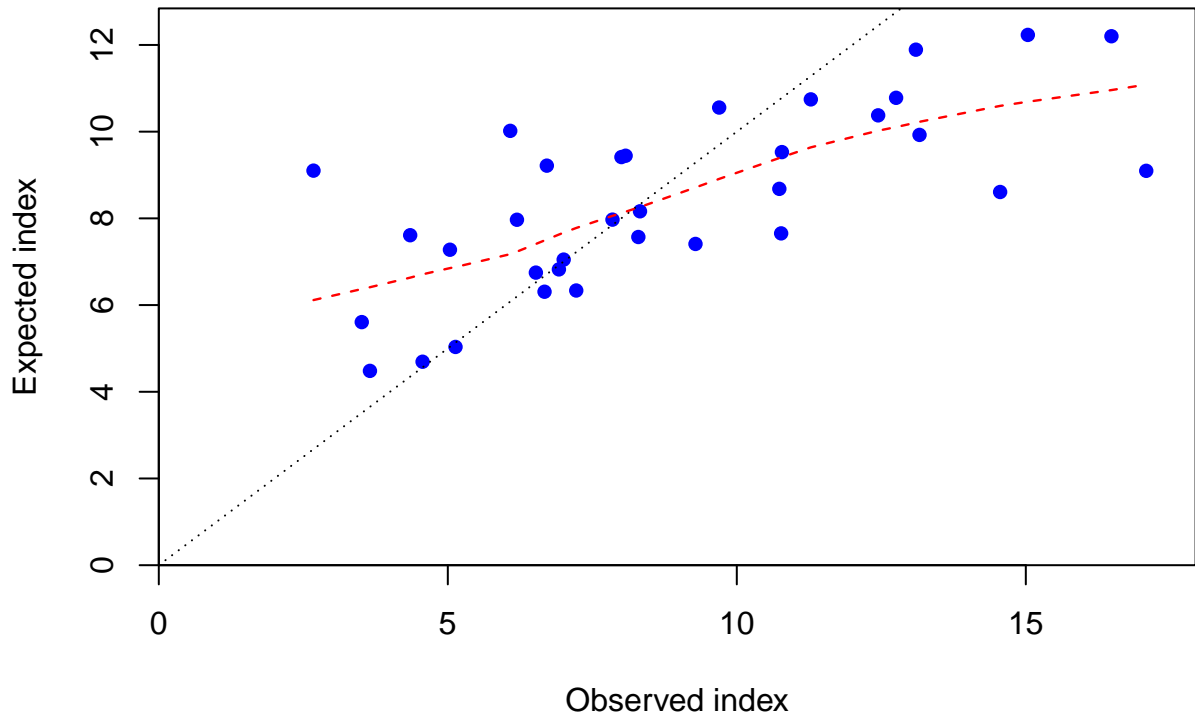
Index



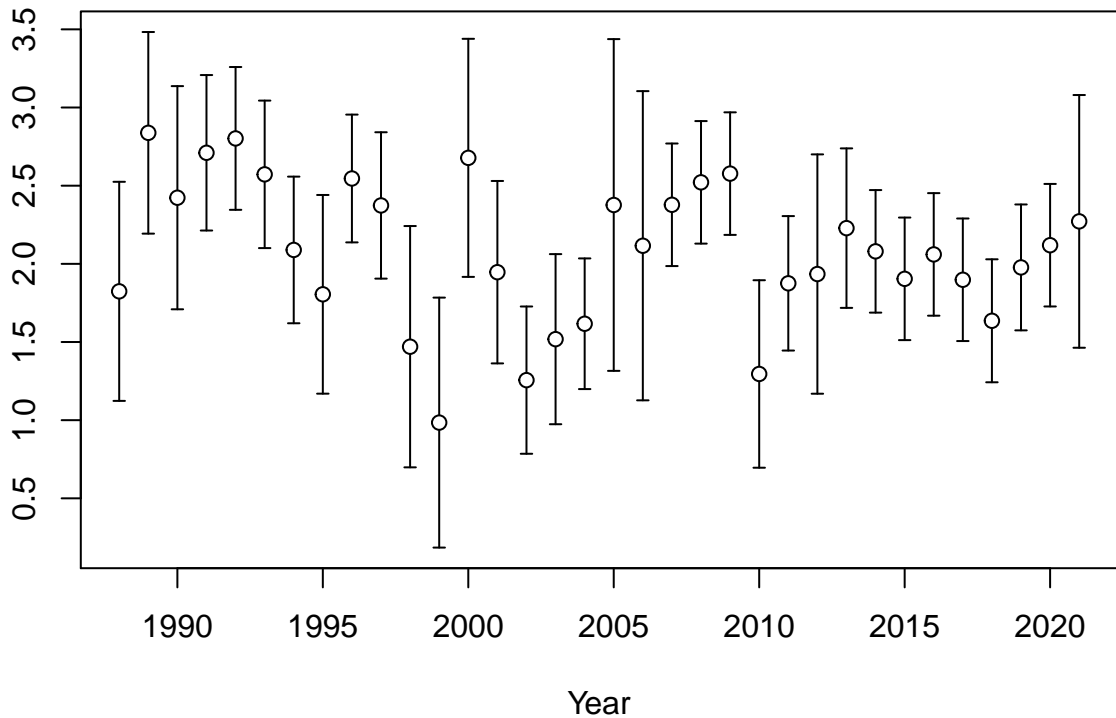
Index



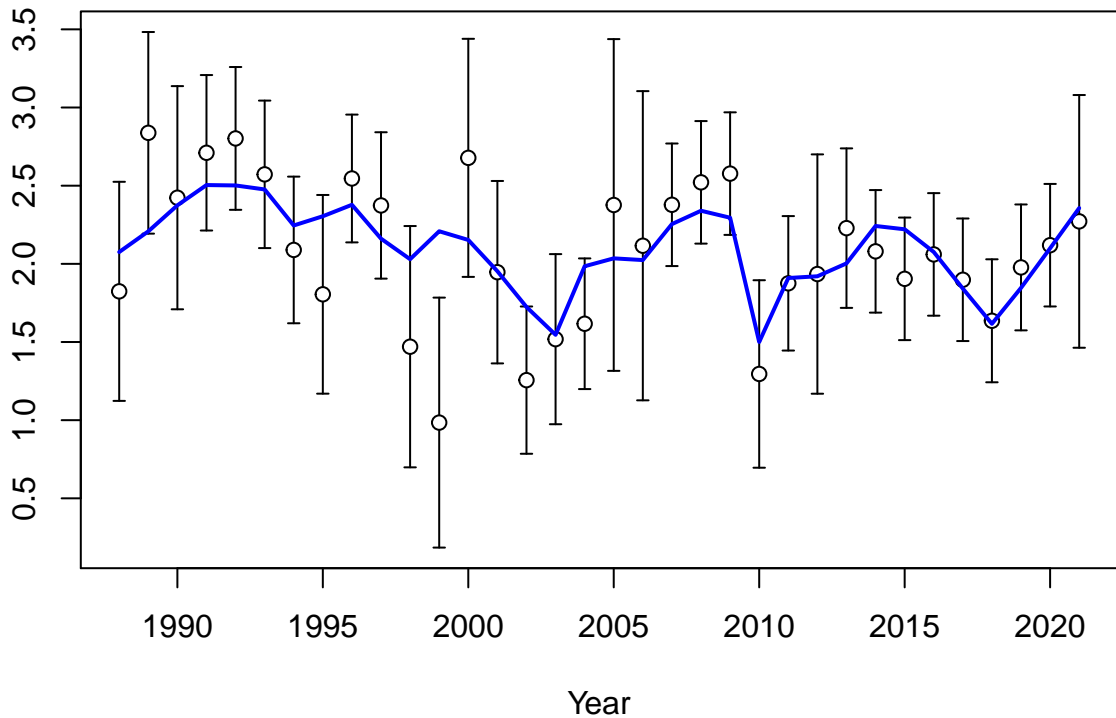


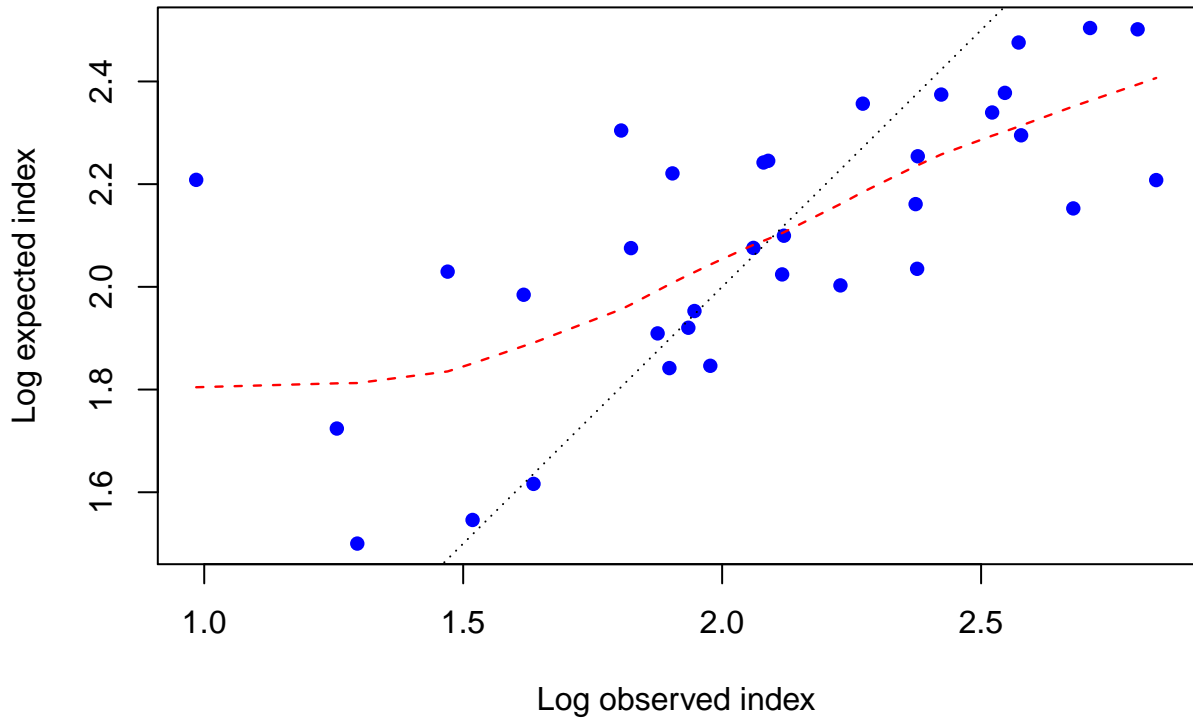


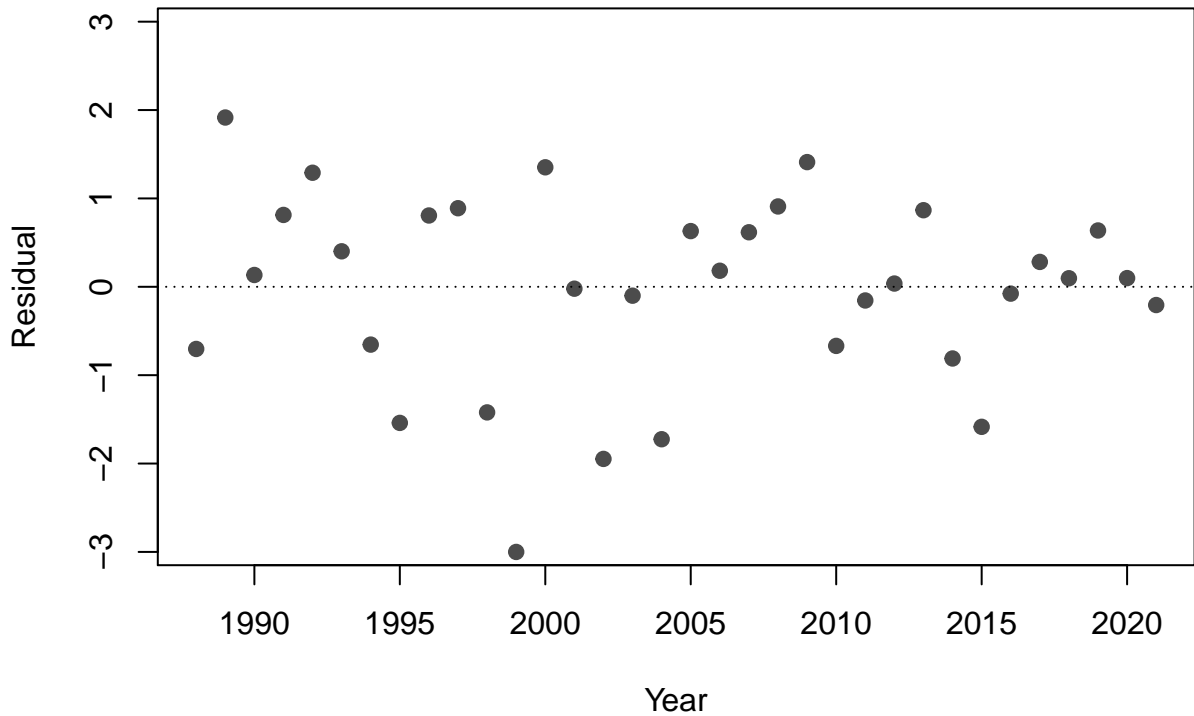
Log index

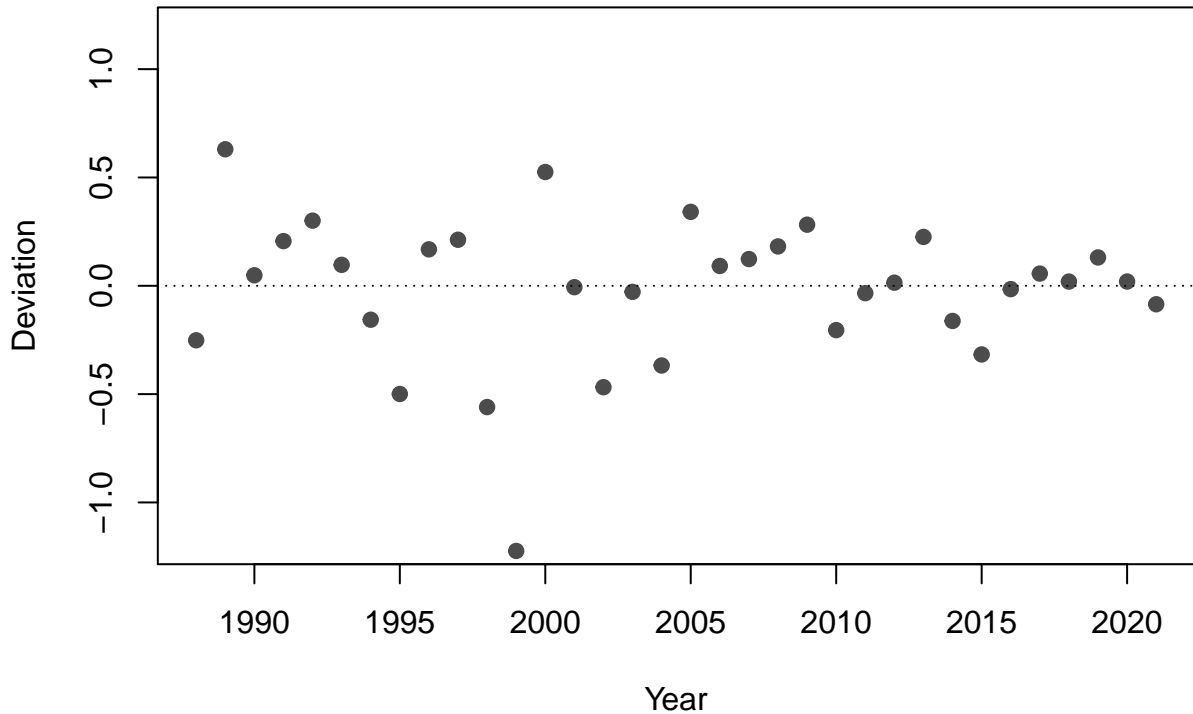


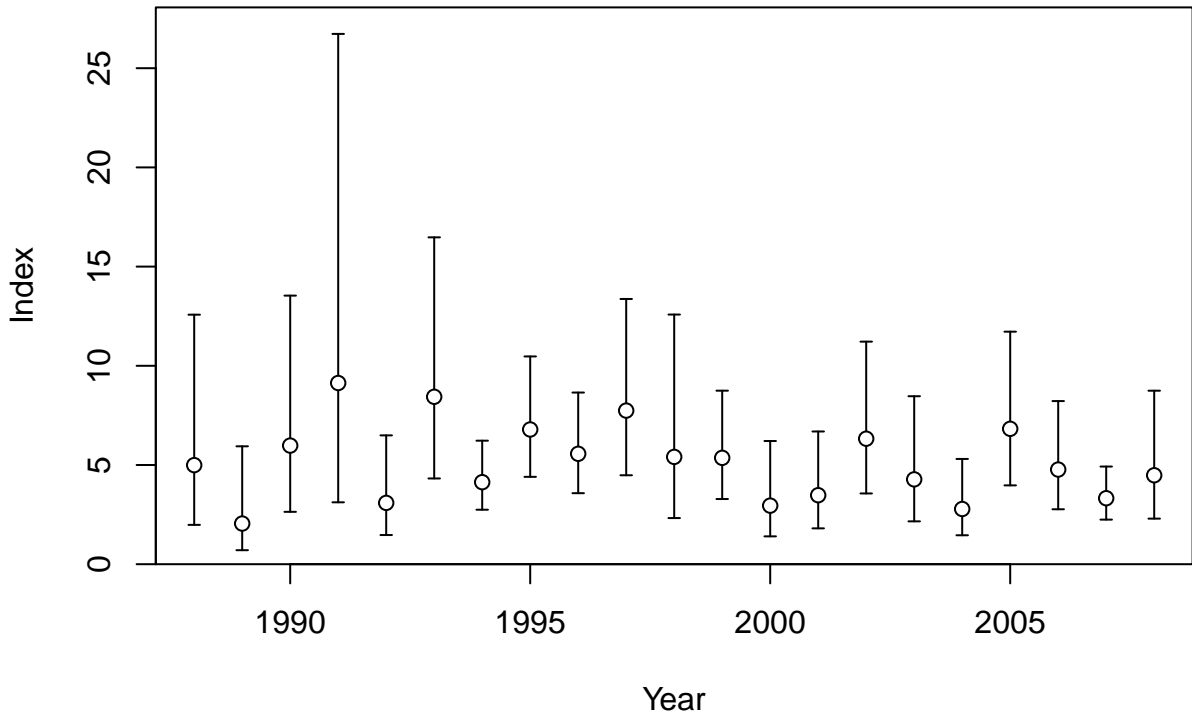
Log index

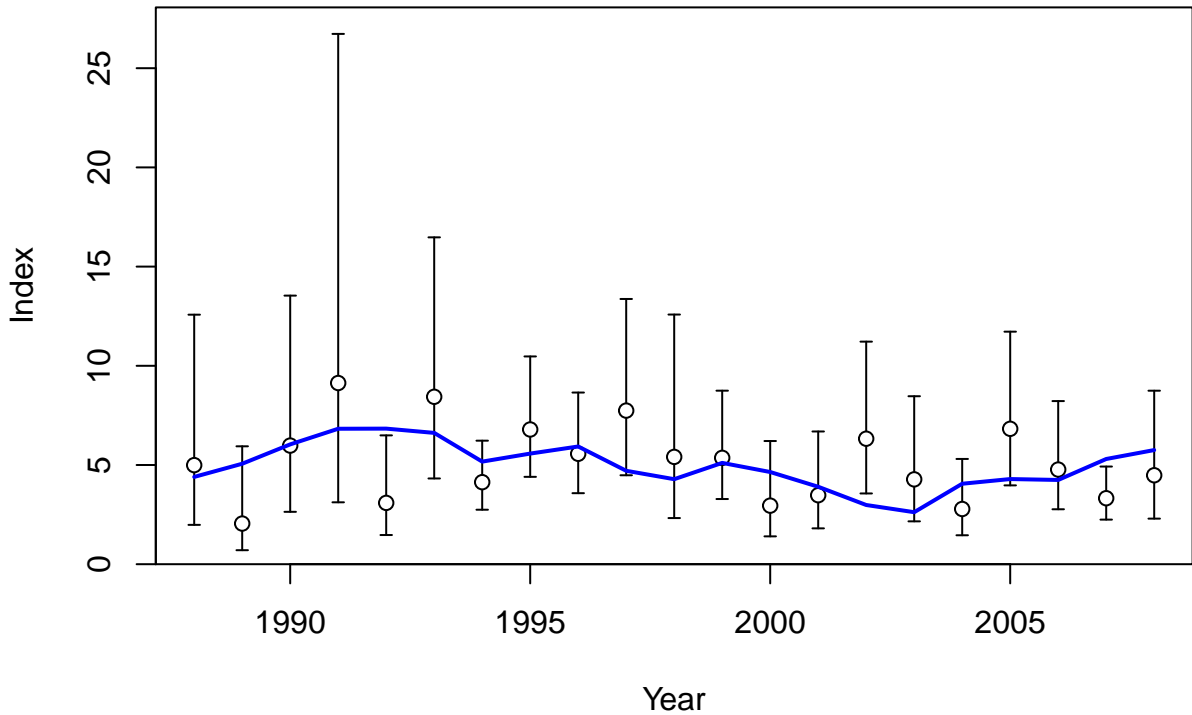




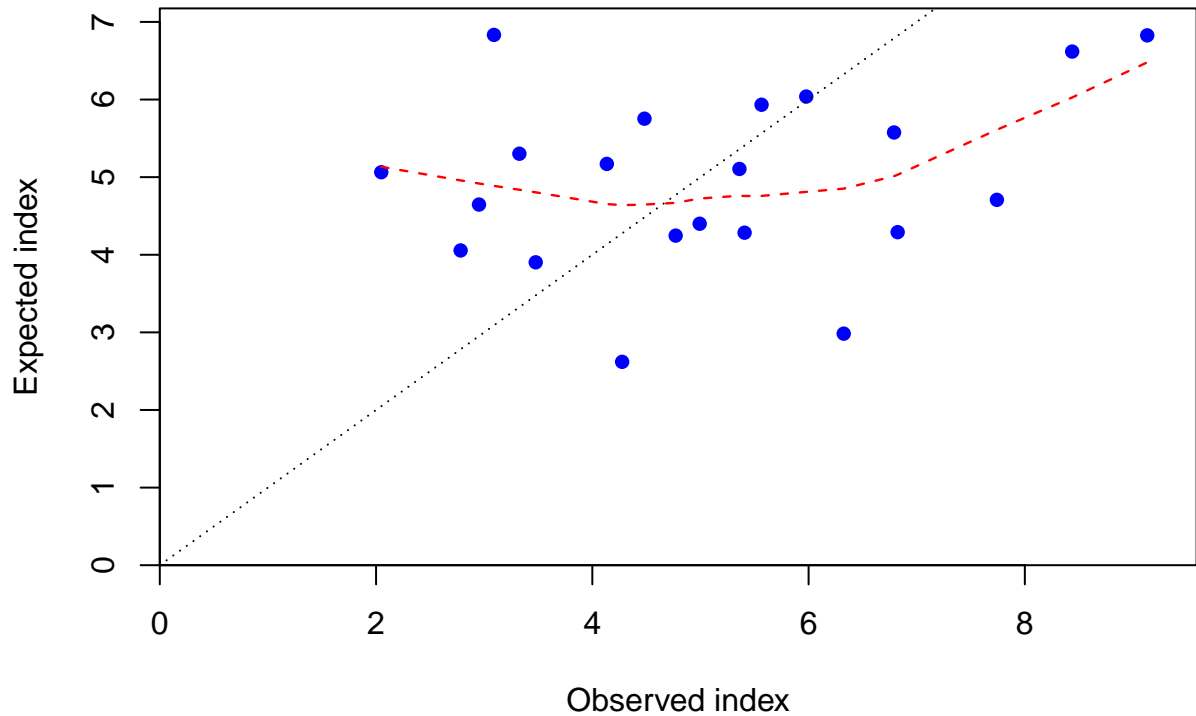


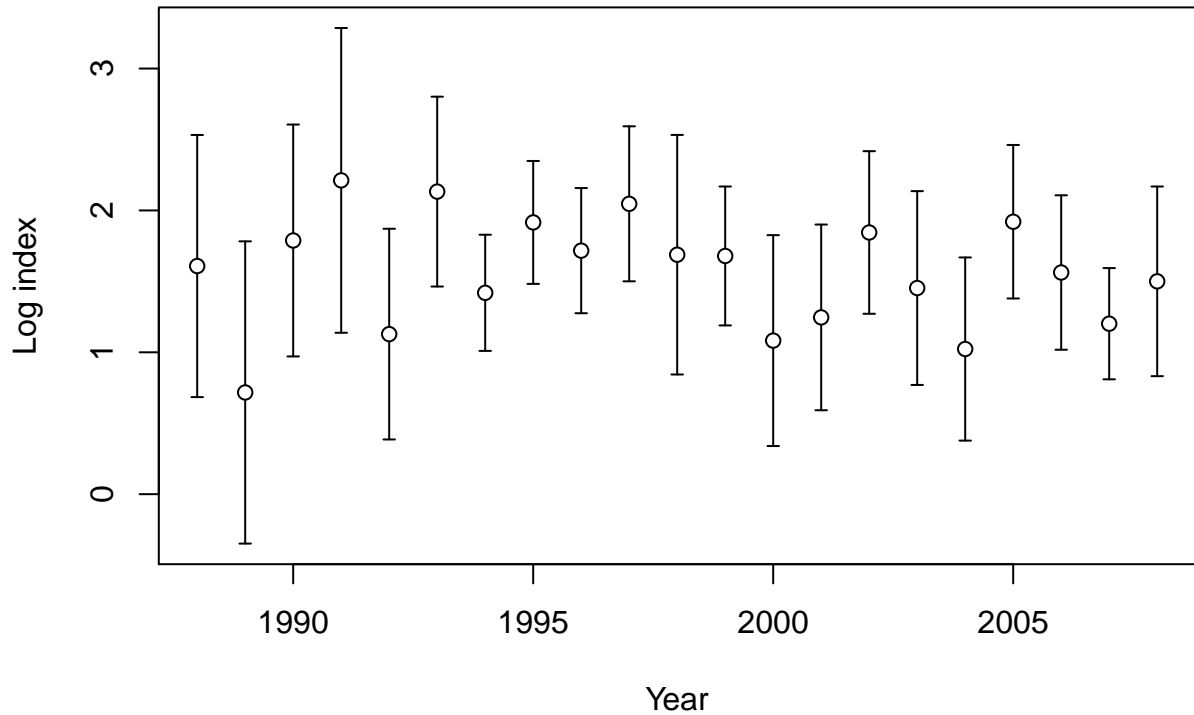


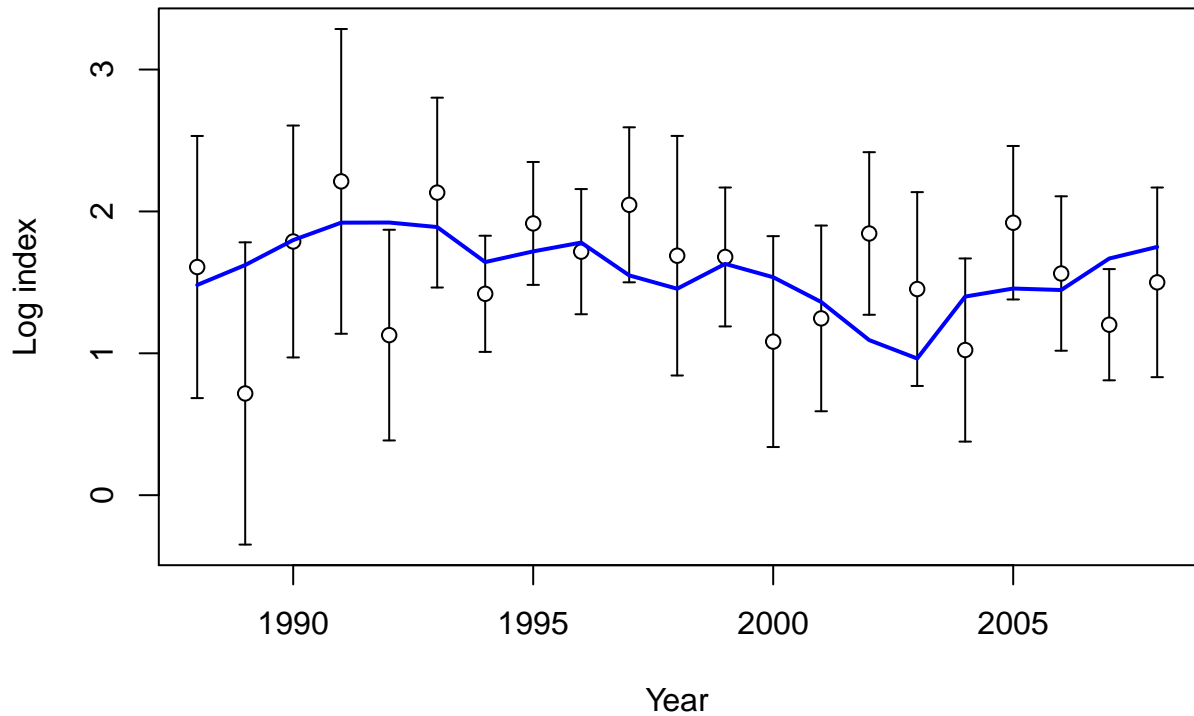


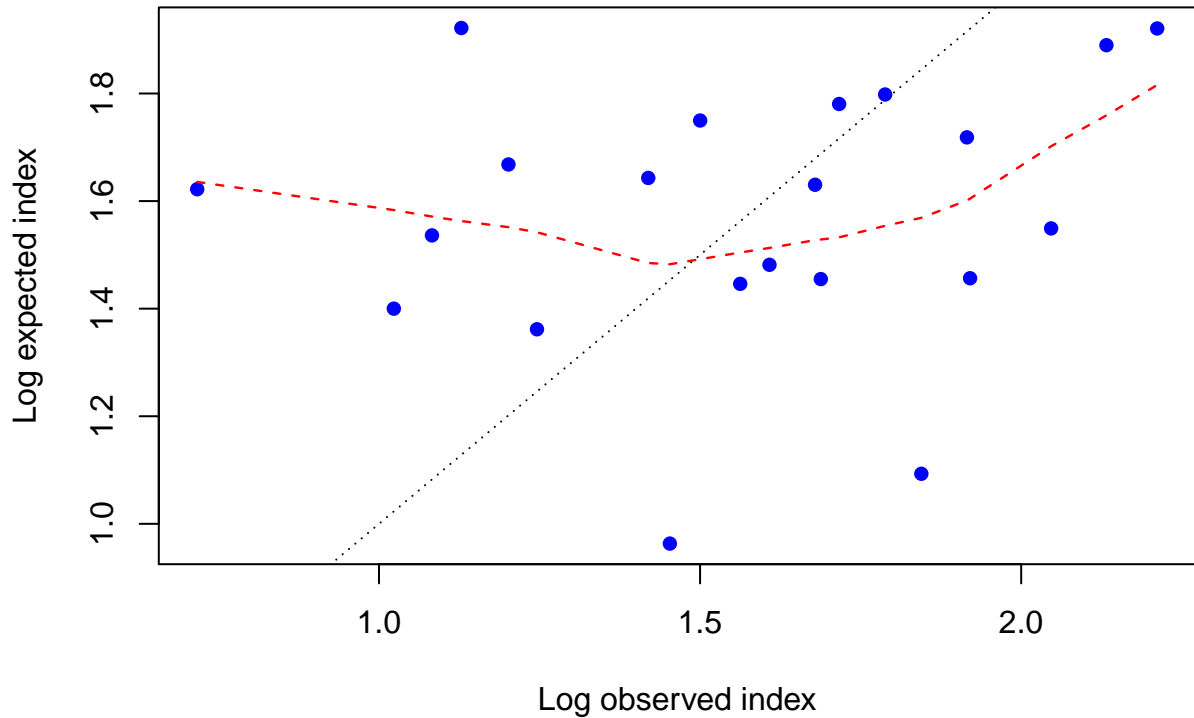


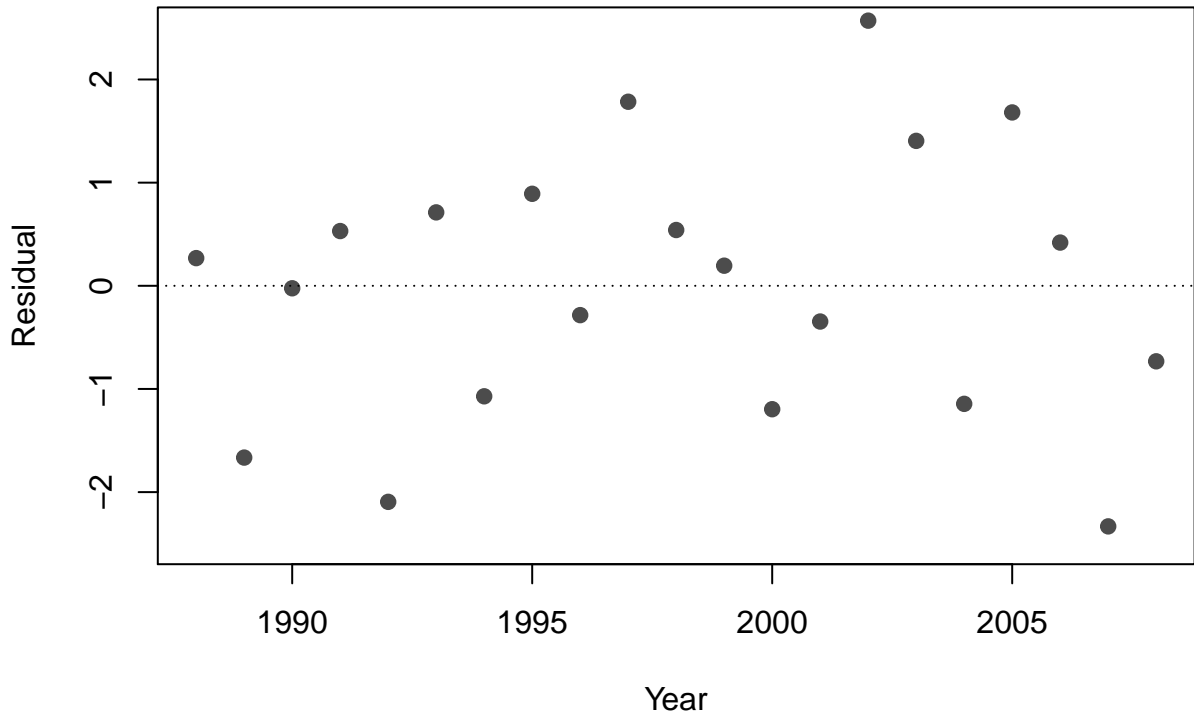


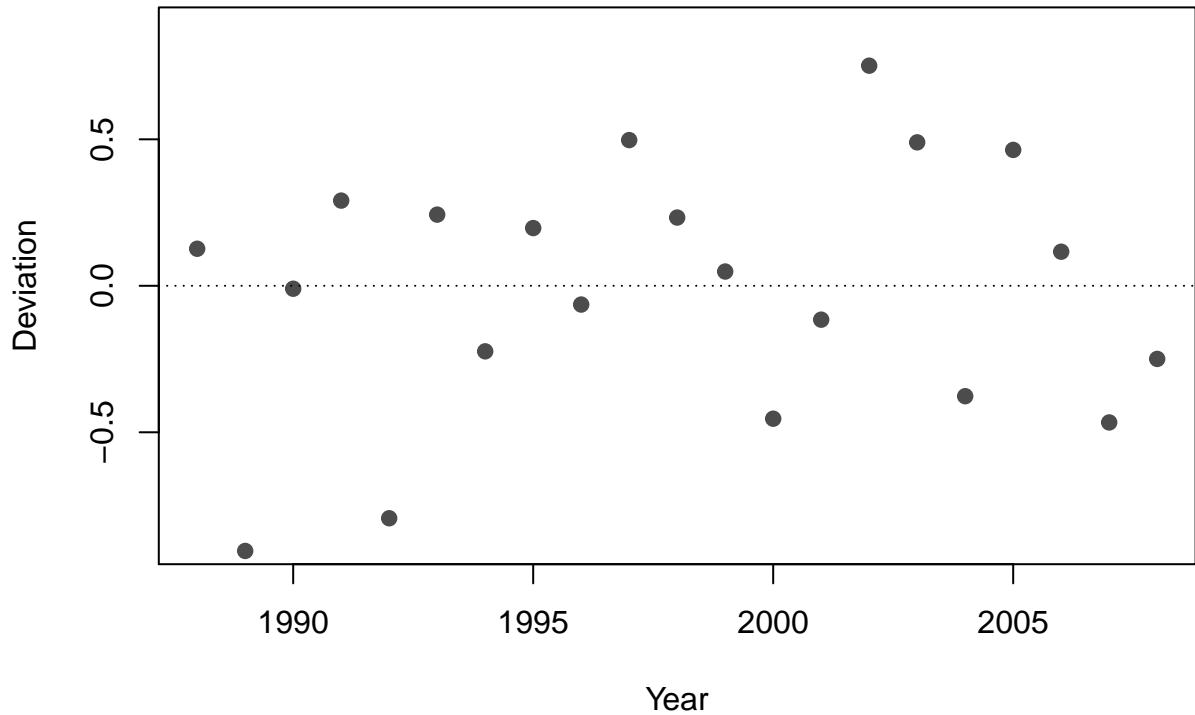




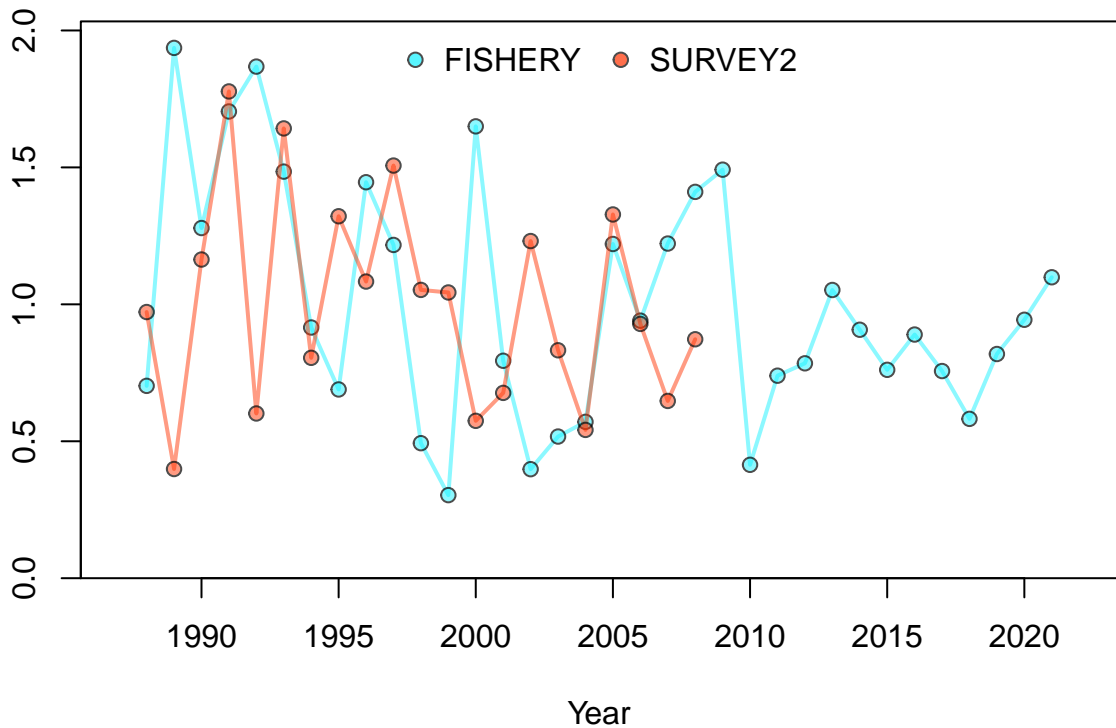


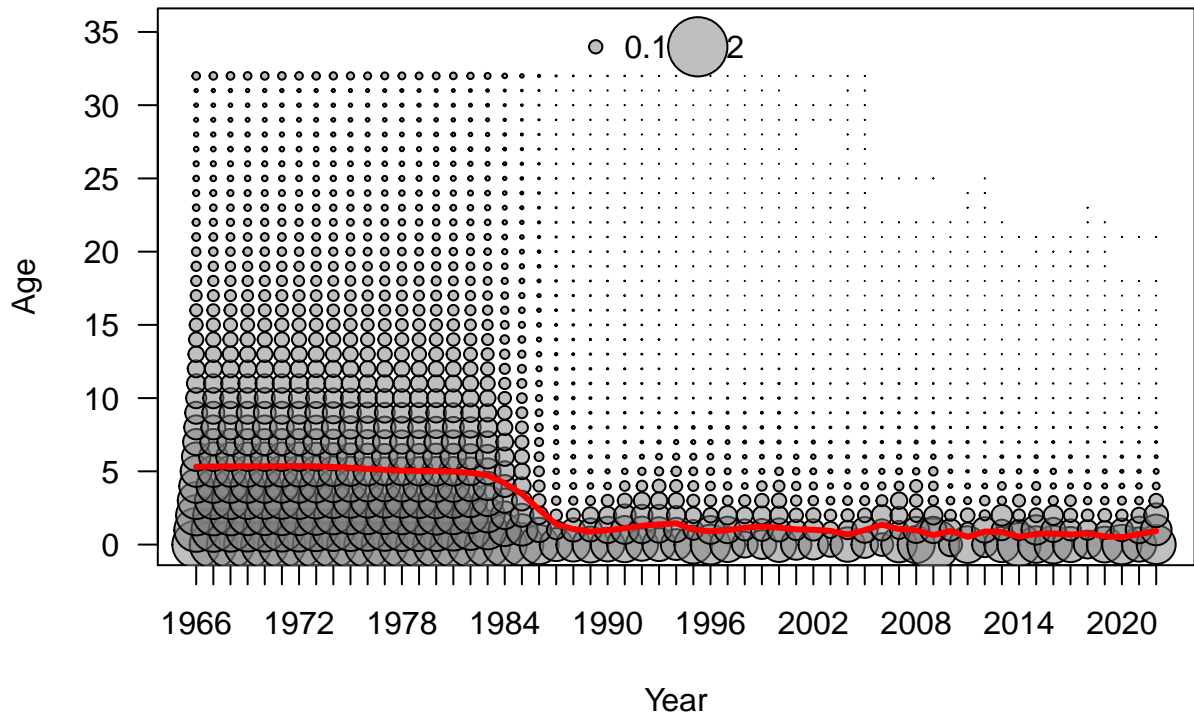




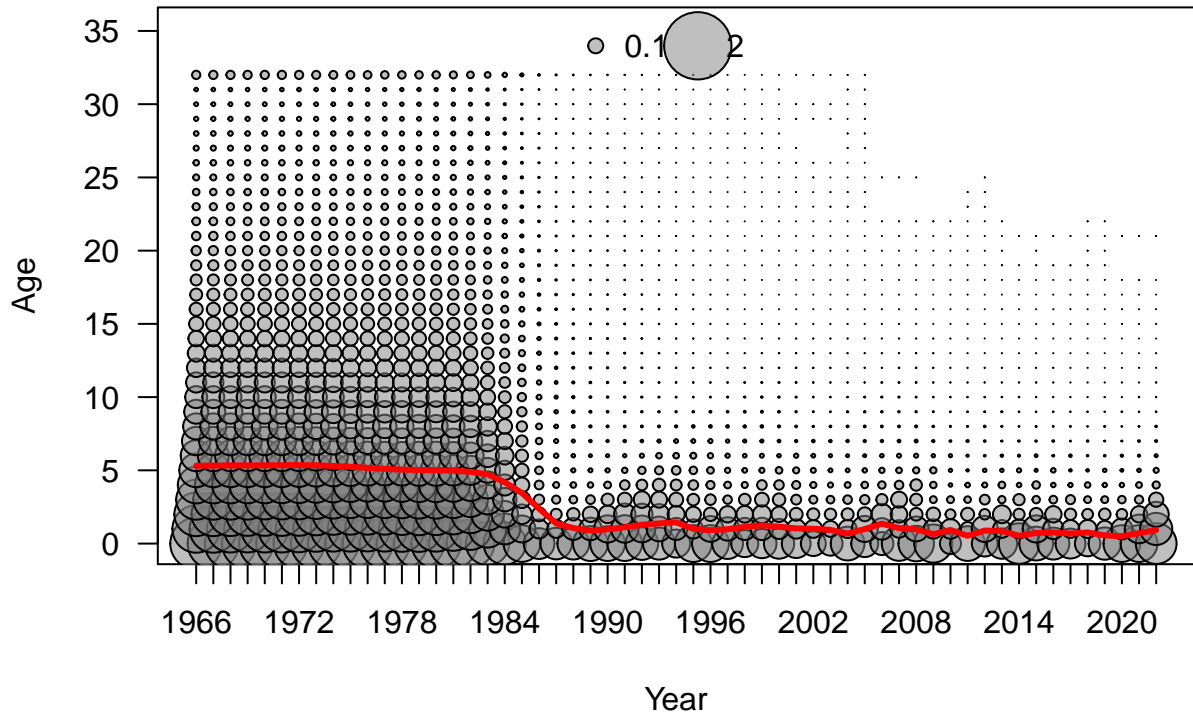


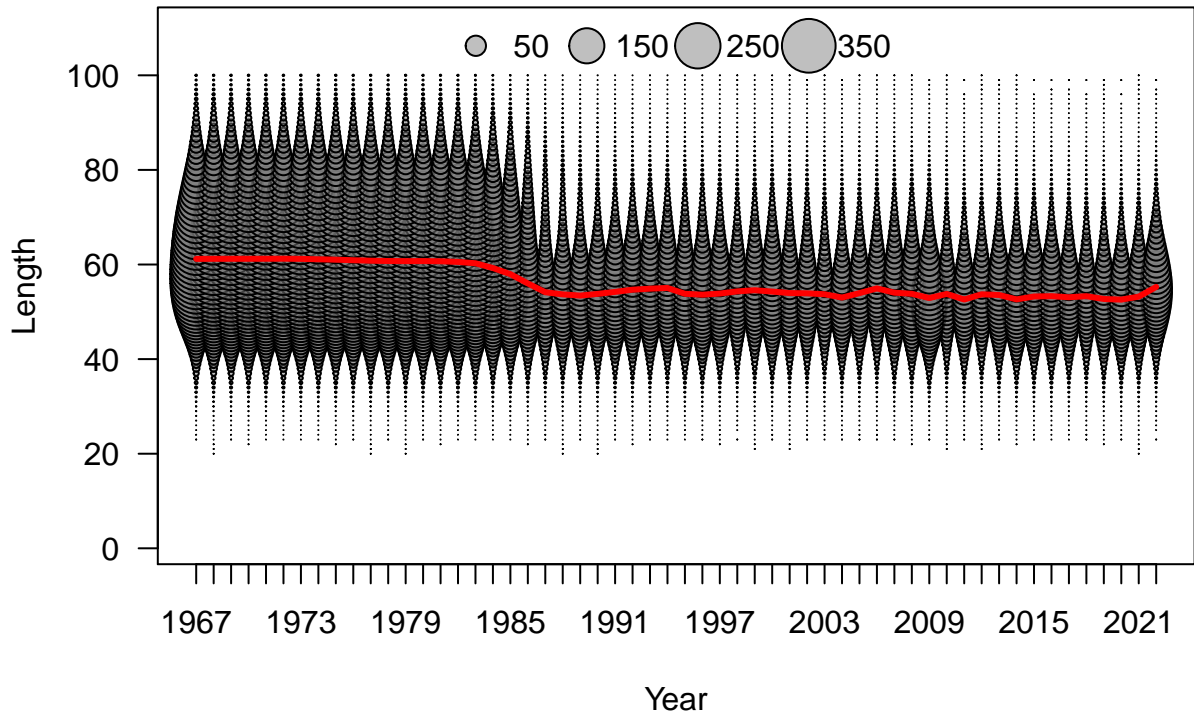
Standardized index

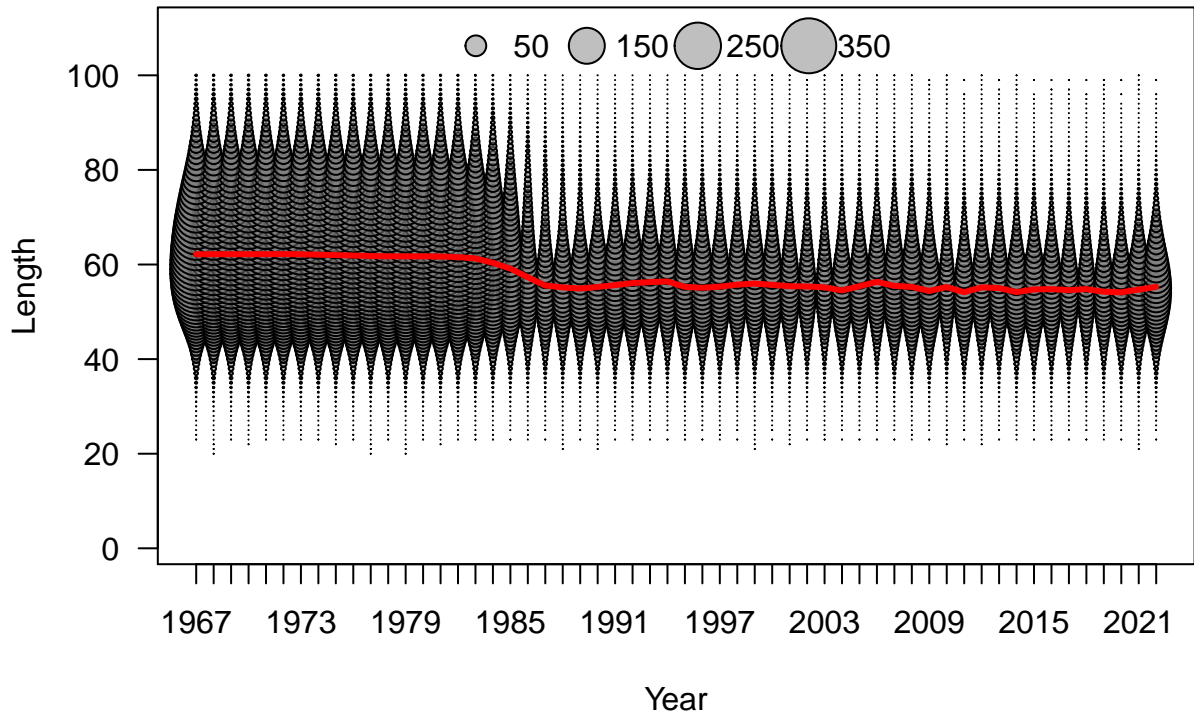


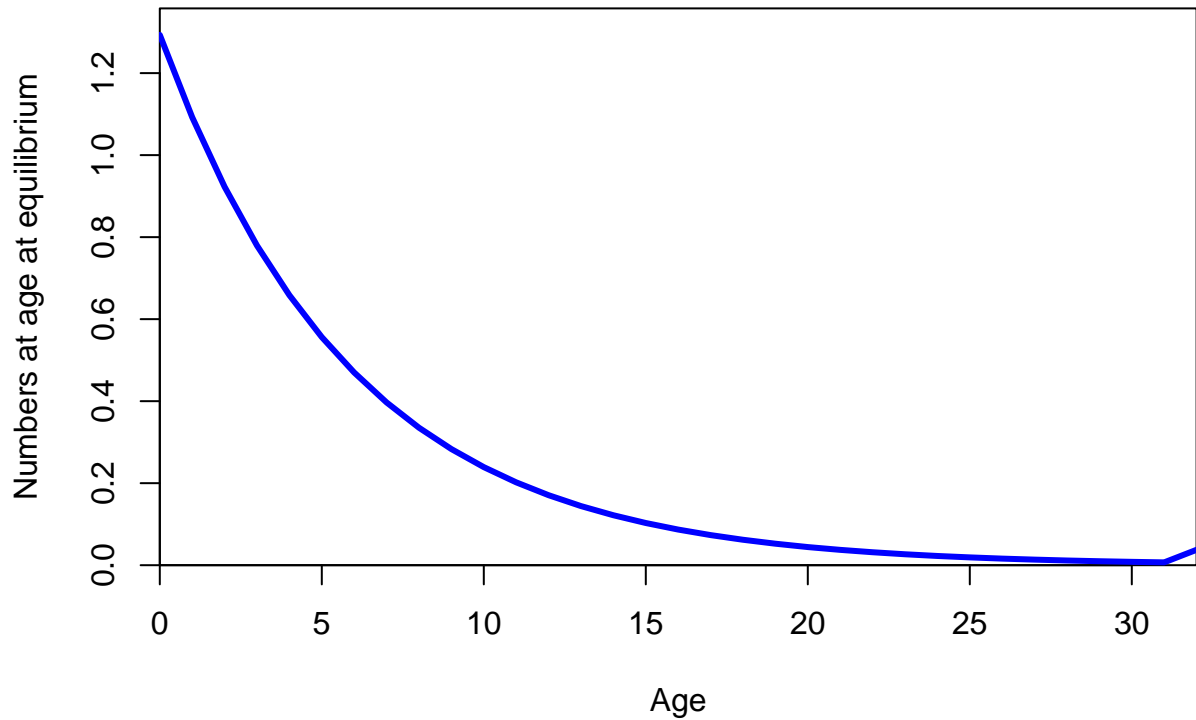


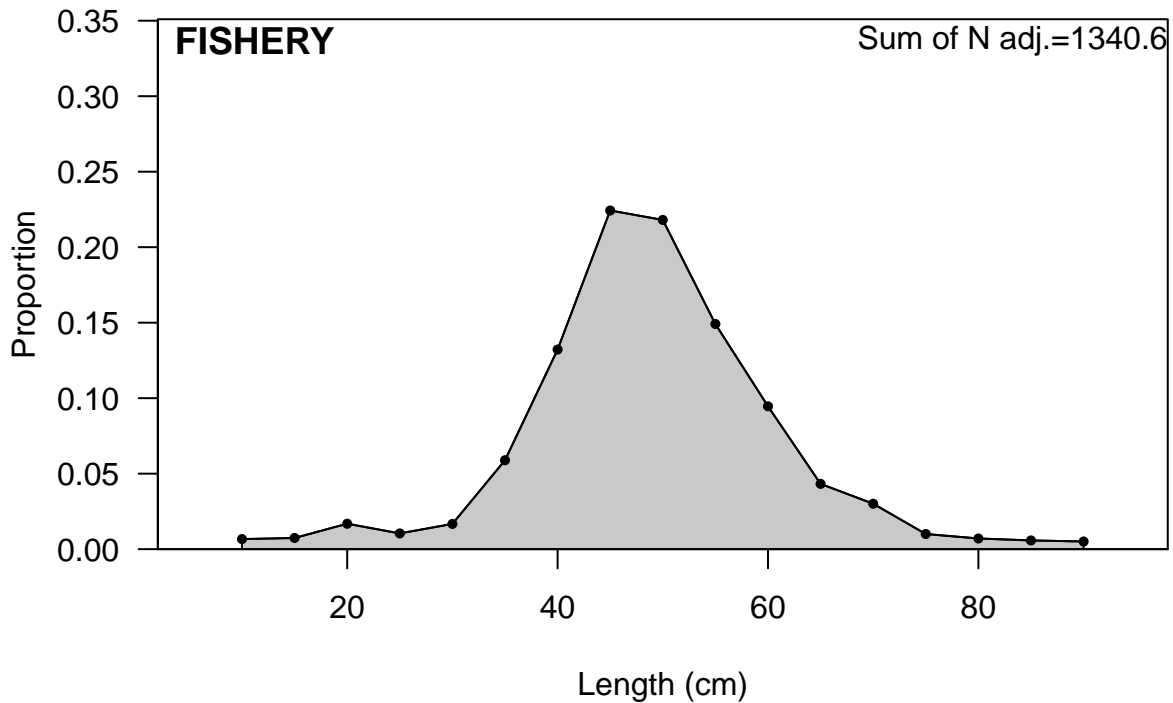






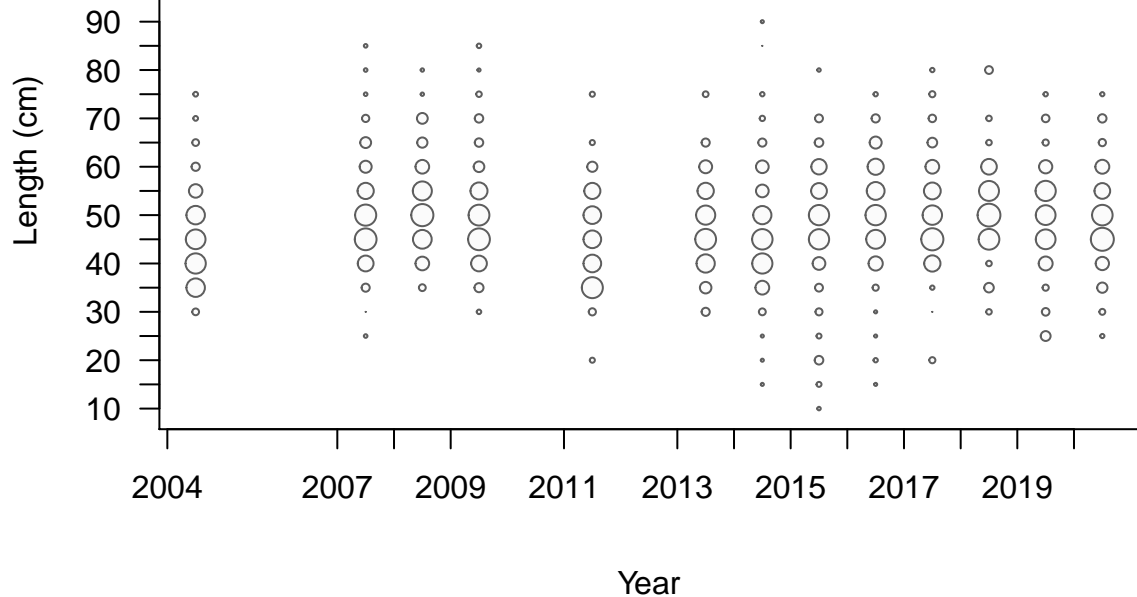




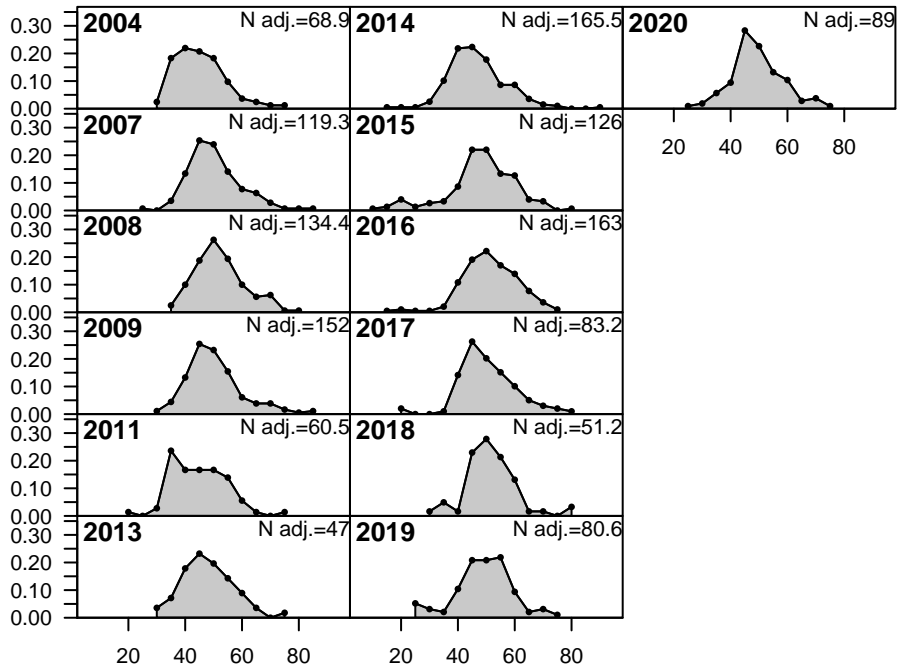


# FISHERY

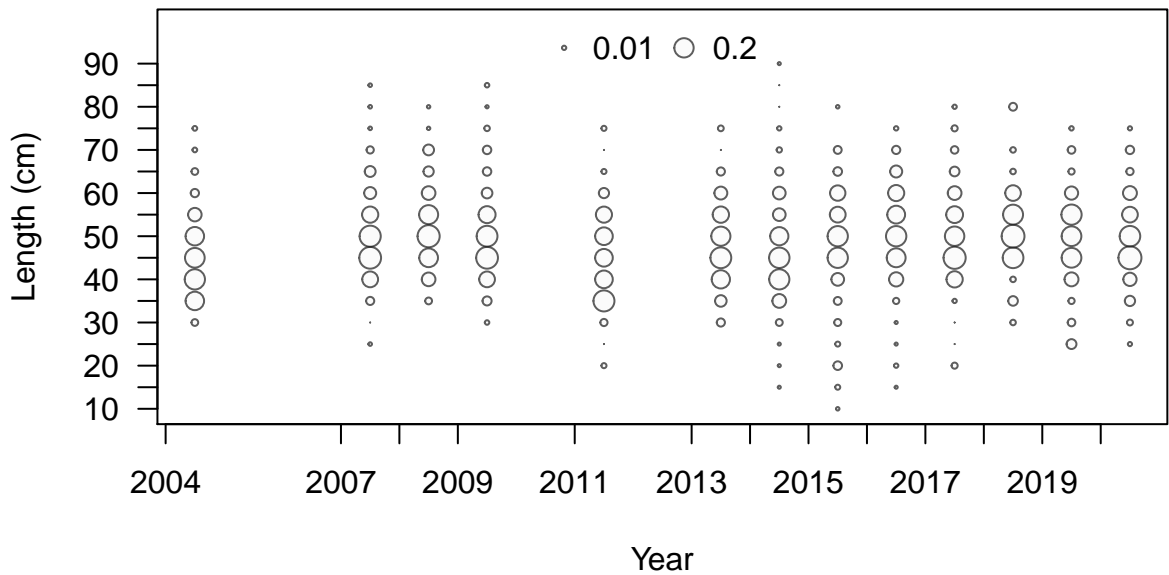
◦ 0.01 ○ 0.2



Proportion

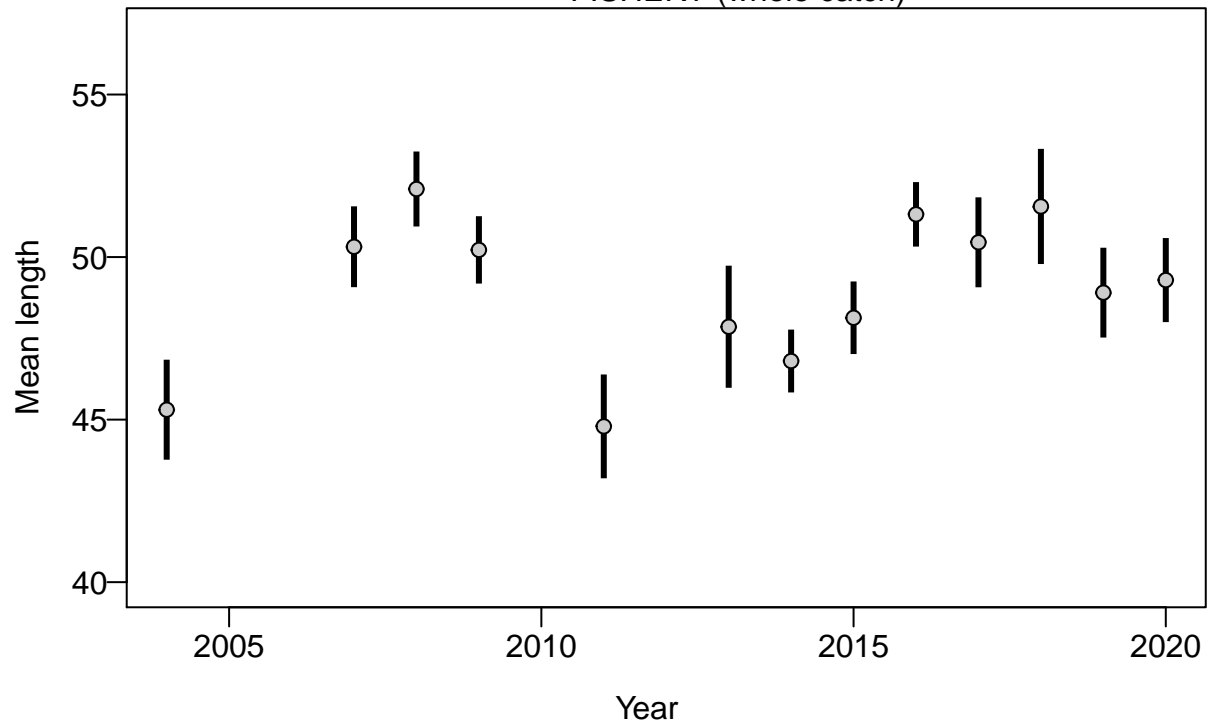


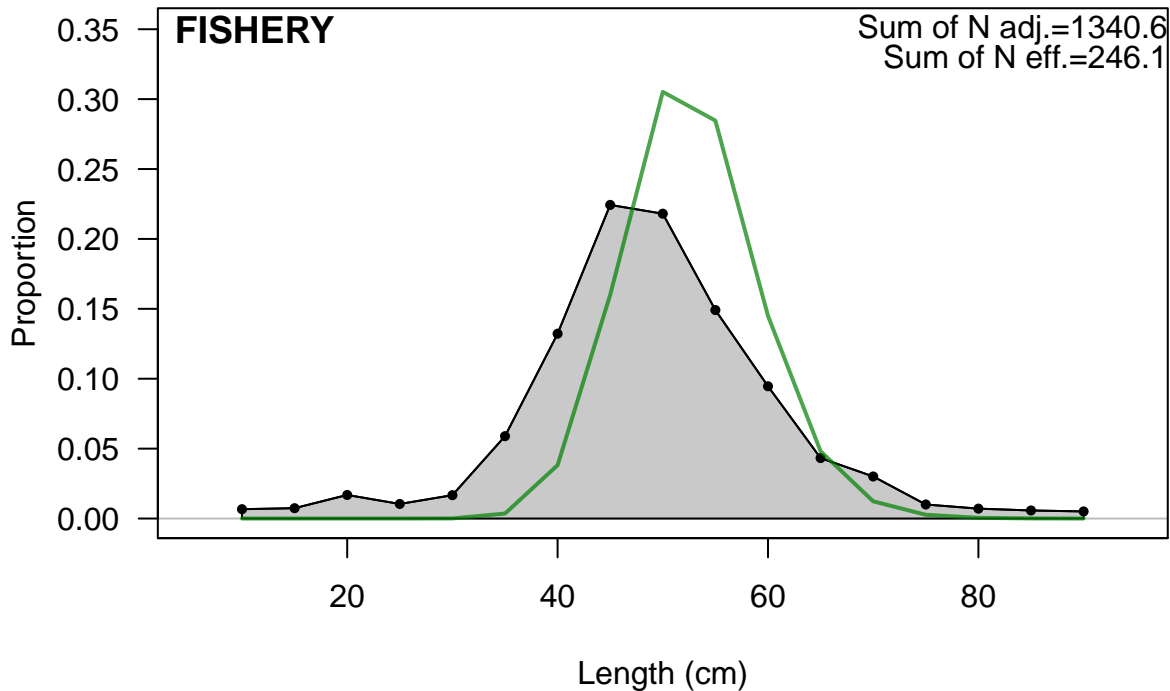
Length (cm)

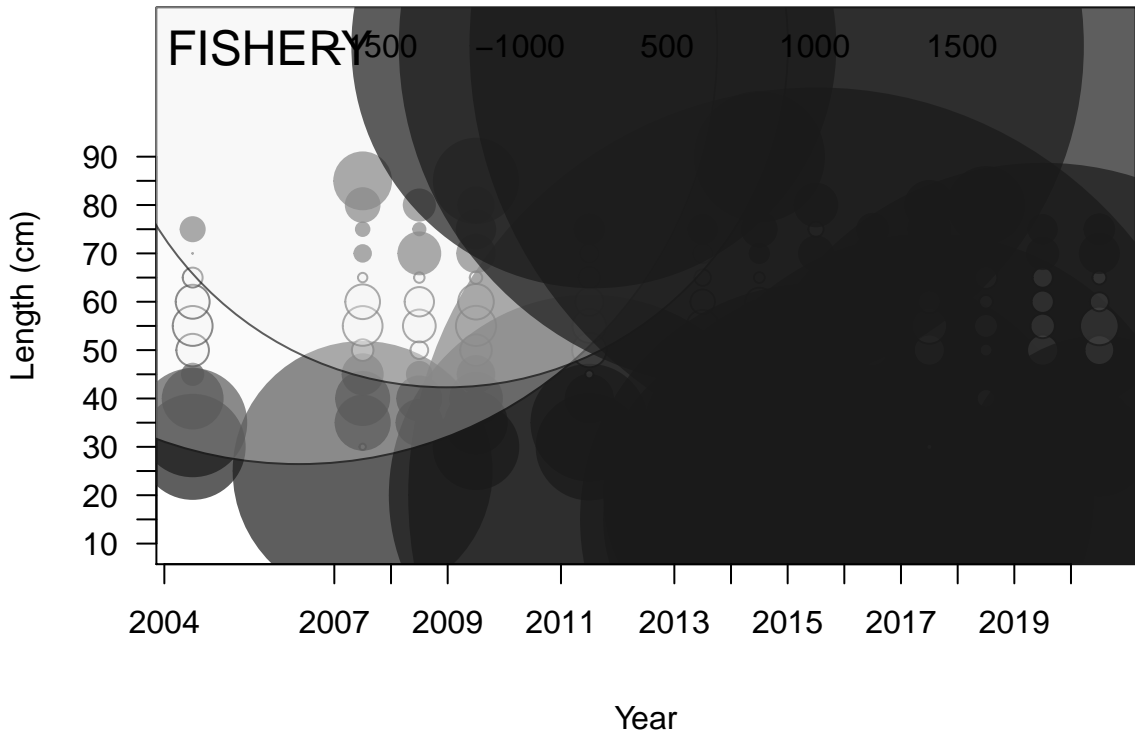




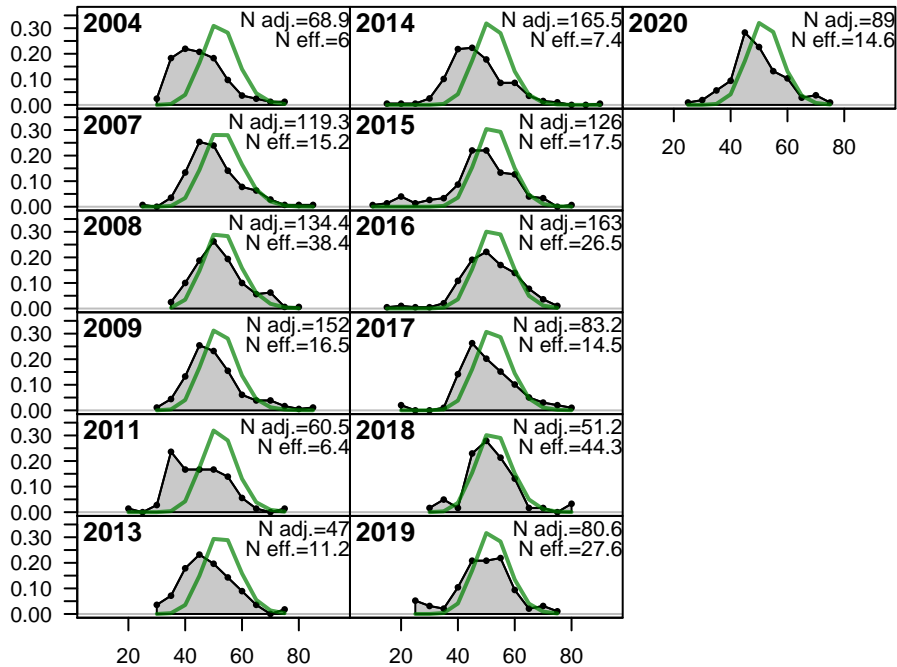
FISHERY (whole catch)



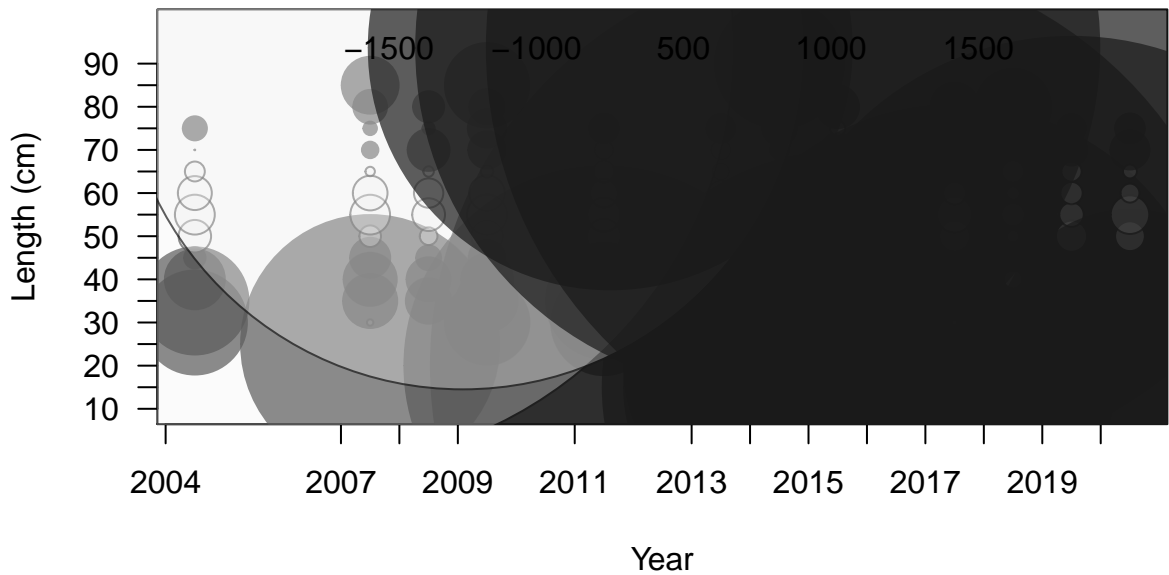


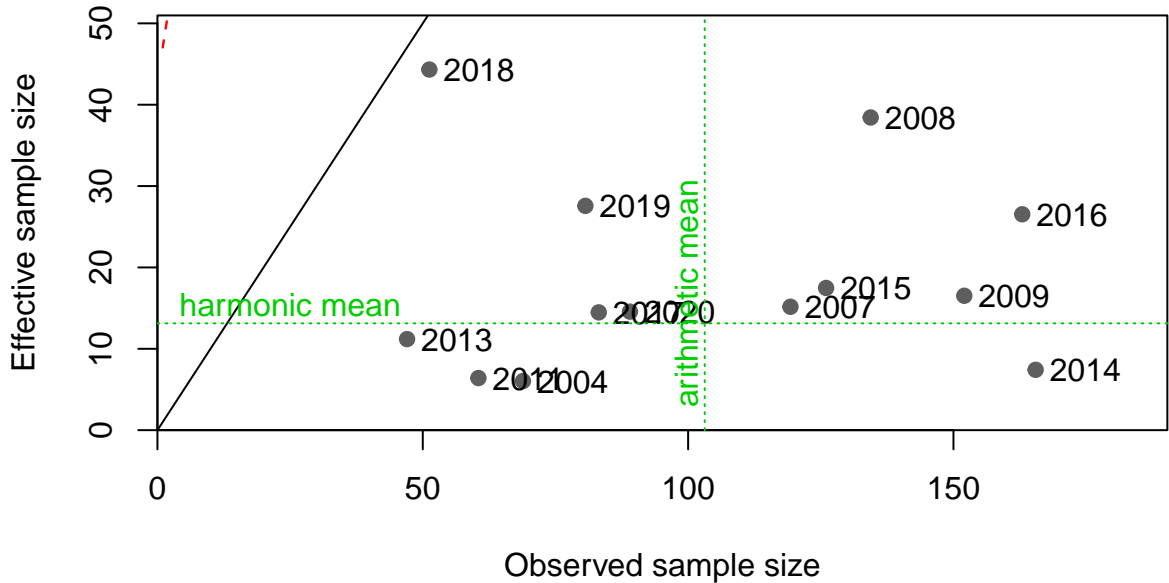


Proportion

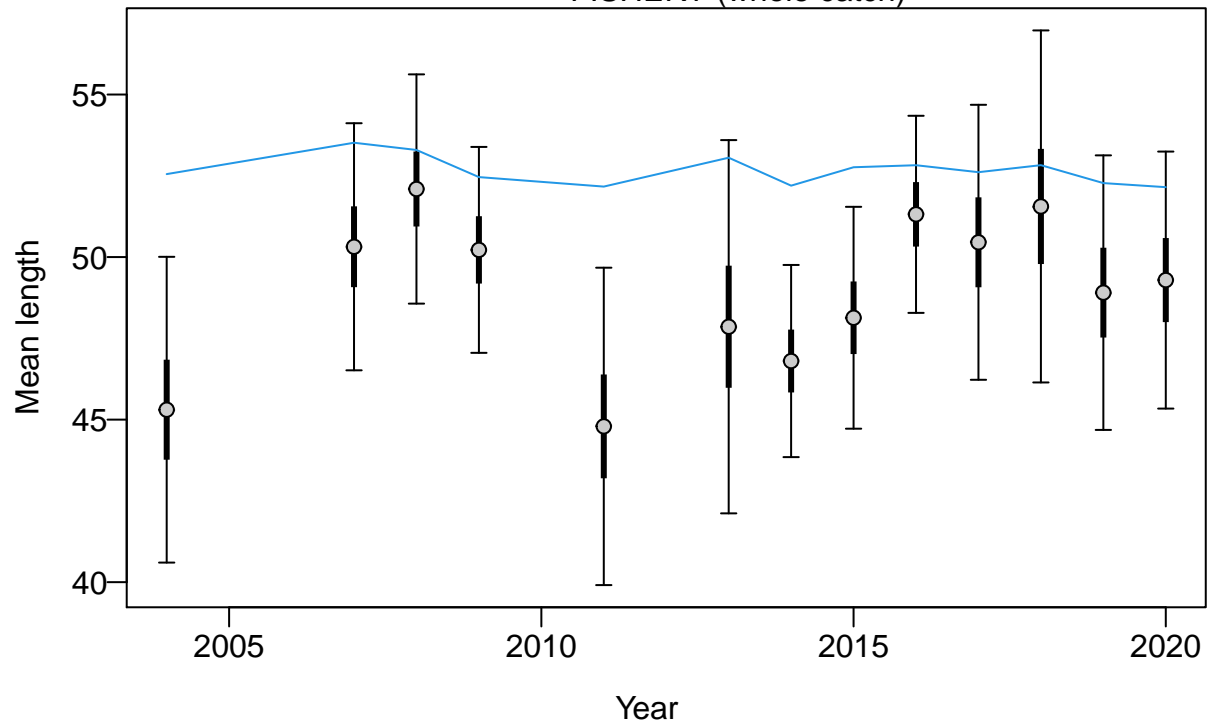


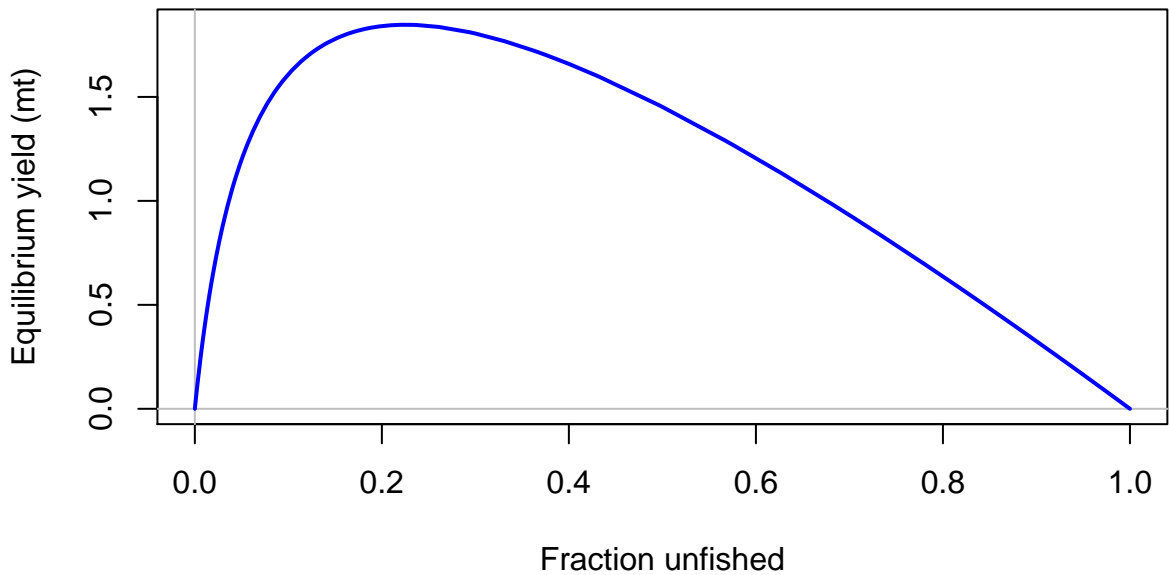
Length (cm)



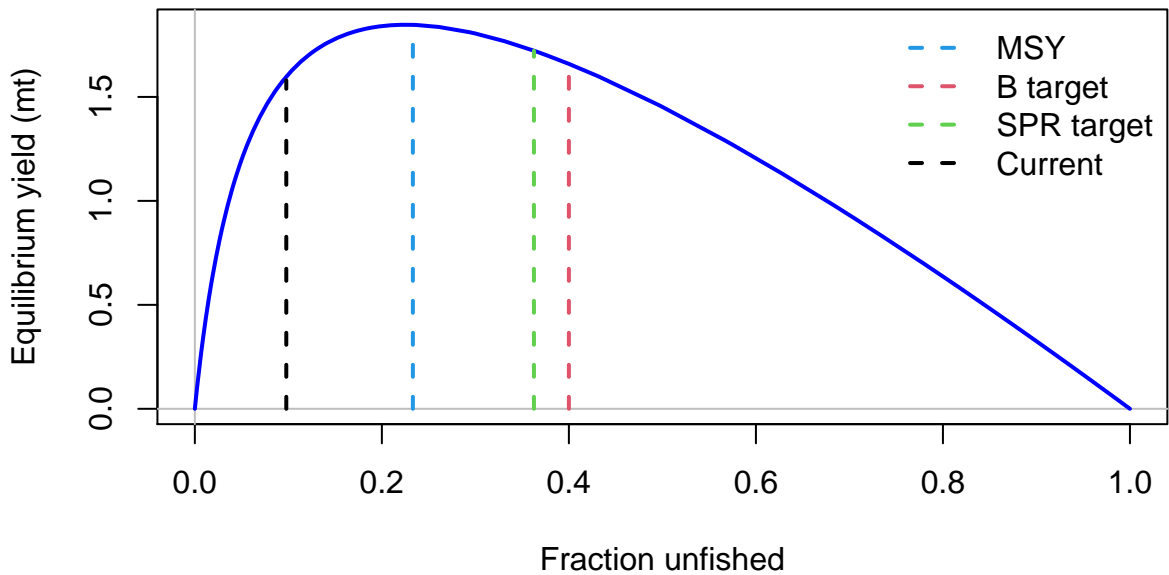


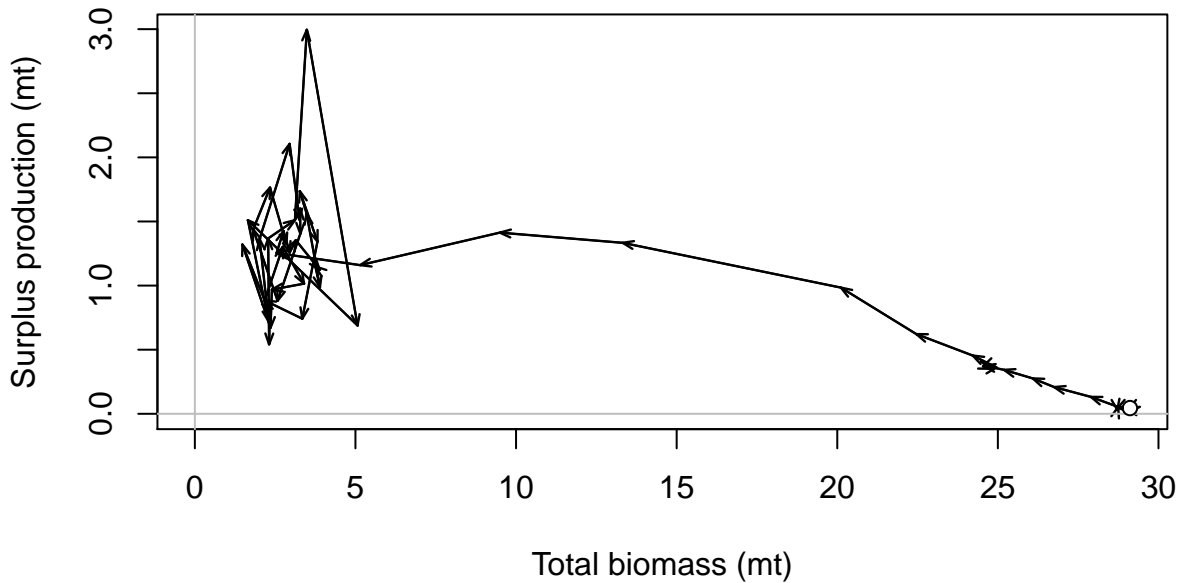
## FISHERY (whole catch)

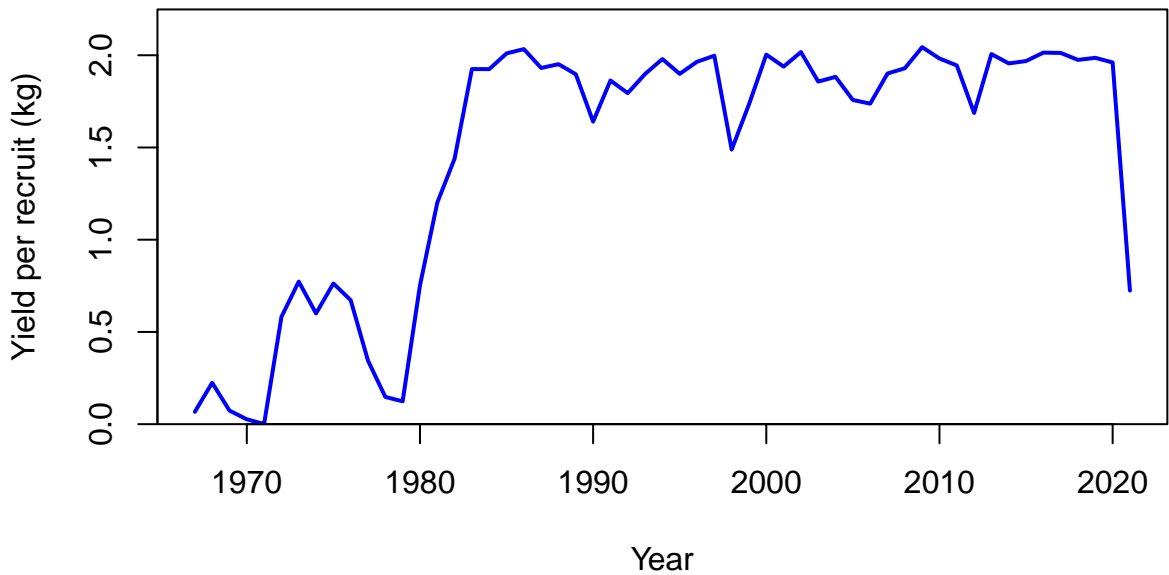


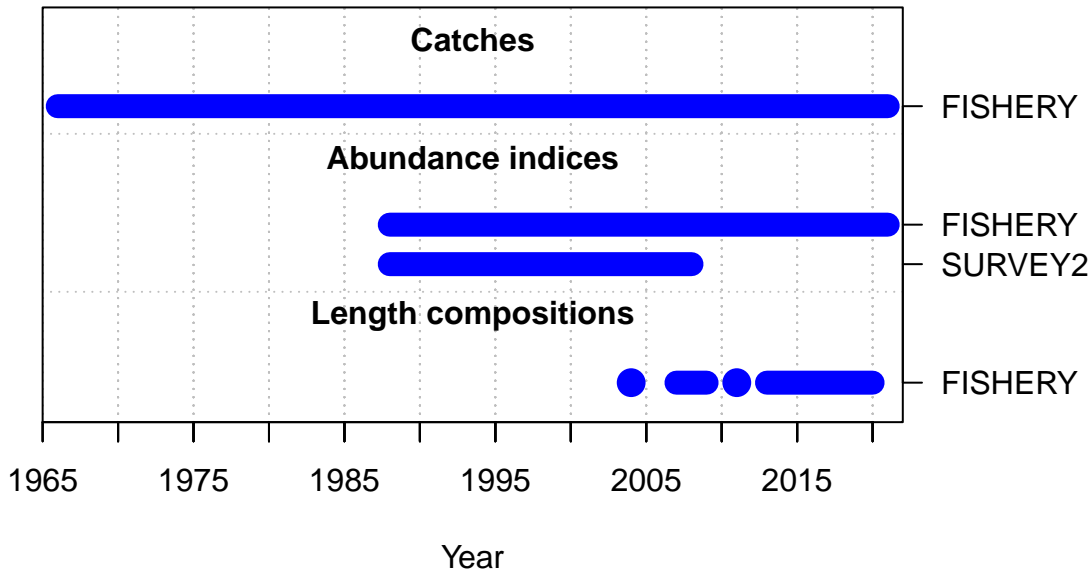


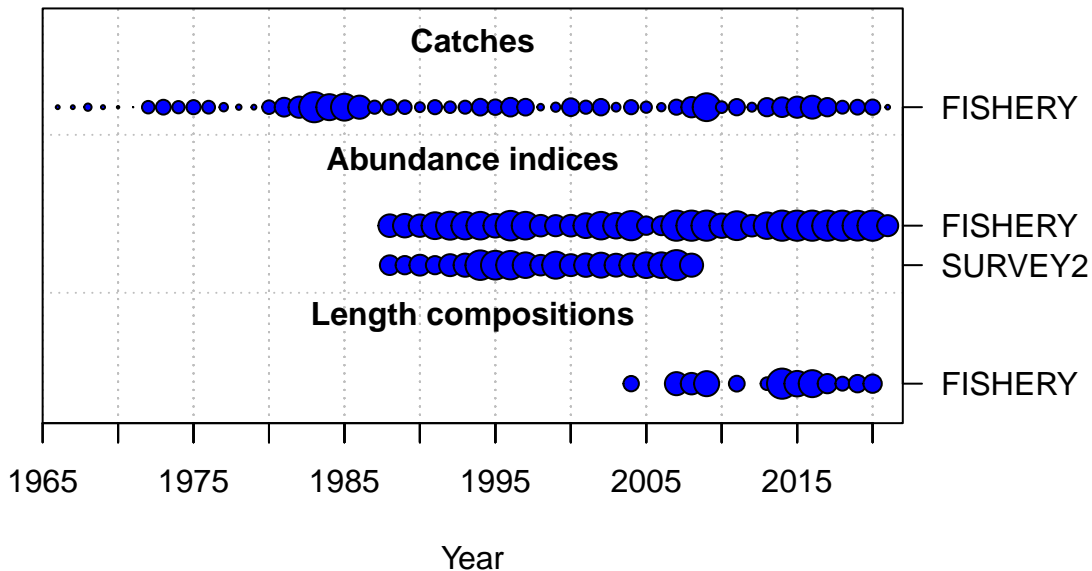




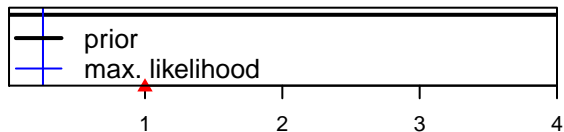




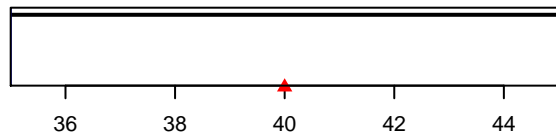




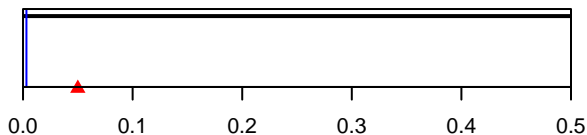
SR\_LN(R0)



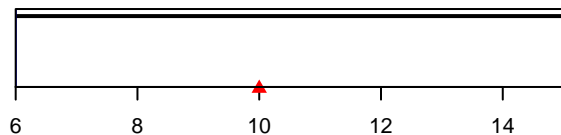
Size\_inflection\_FISHERY(1)



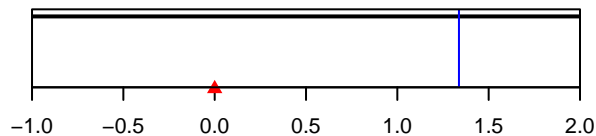
InitF\_seas\_1\_flt\_1FISHERY



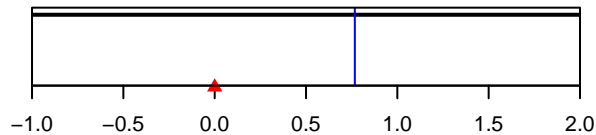
Size\_95%width\_FISHERY(1)



LnQ\_base\_FISHERY(1)



LnQ\_base\_SURVEY2(2)



Parameter value