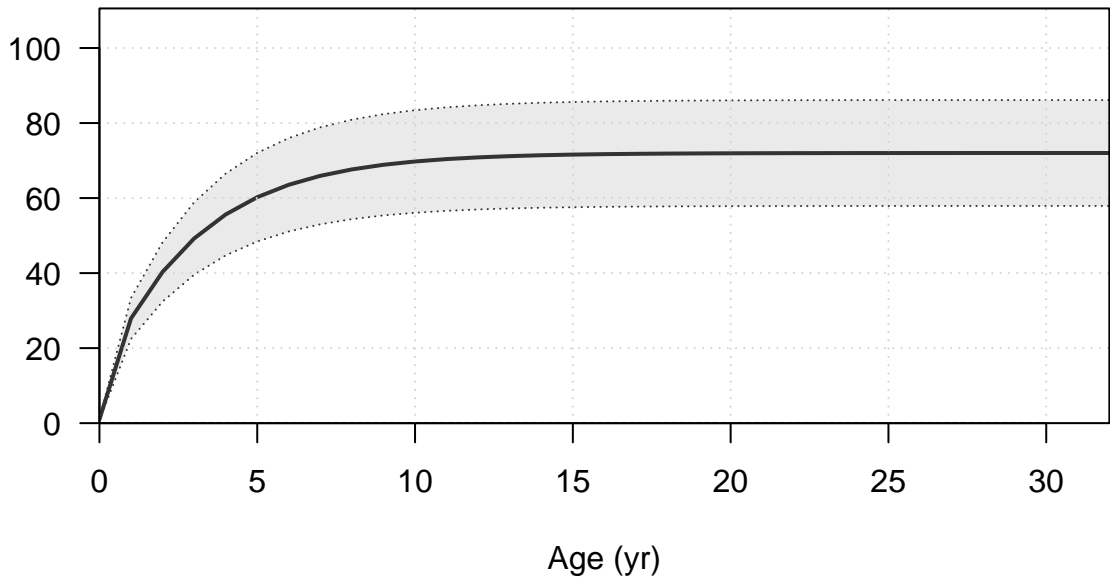


Plots created using the 'r4ss' package in R  
Stock Synthesis version: 3.30.19.0  
StartTime: Tue Jul 12 11:26:52 2022  
Data\_File: data.ss  
Control\_File: control.ss

Length (cm, beginning of the year)



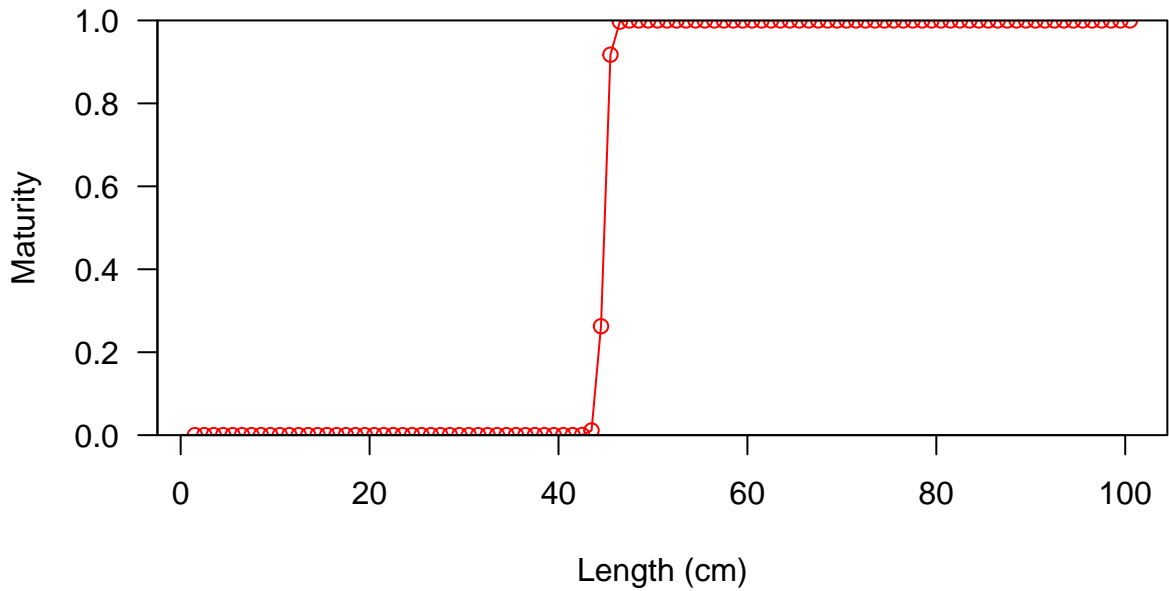
















Fecundity



Fecundity

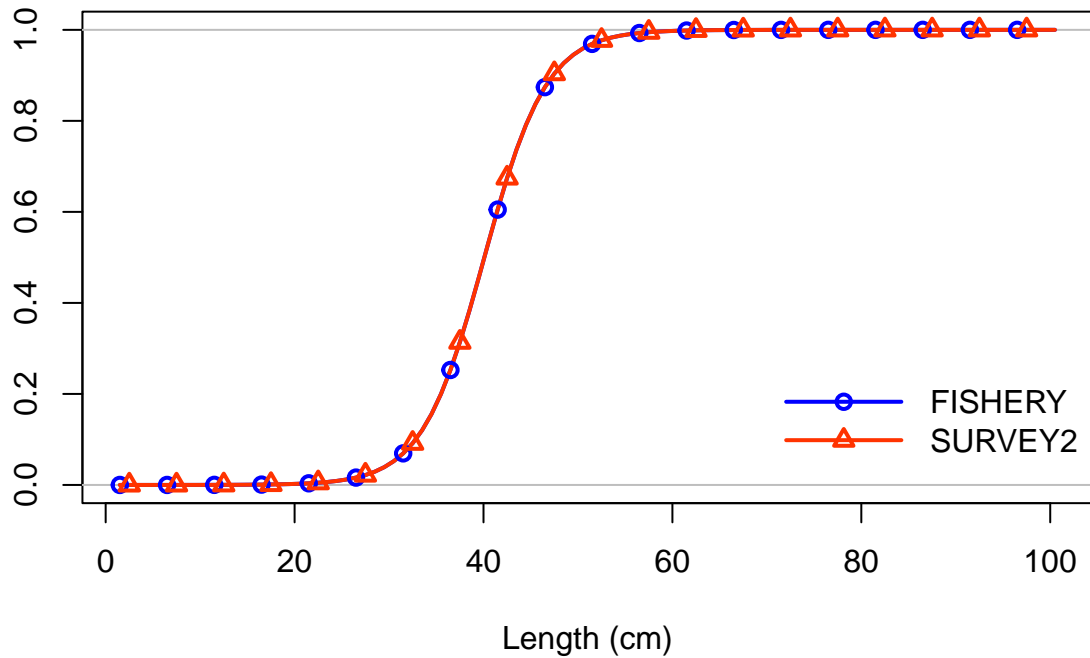


Spawning output

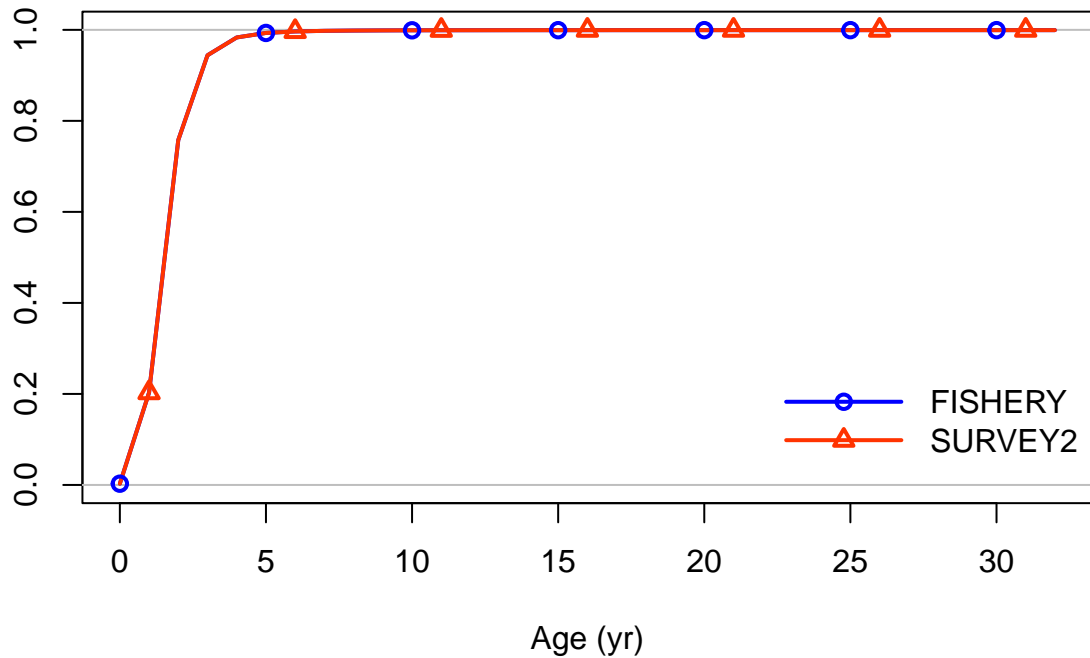




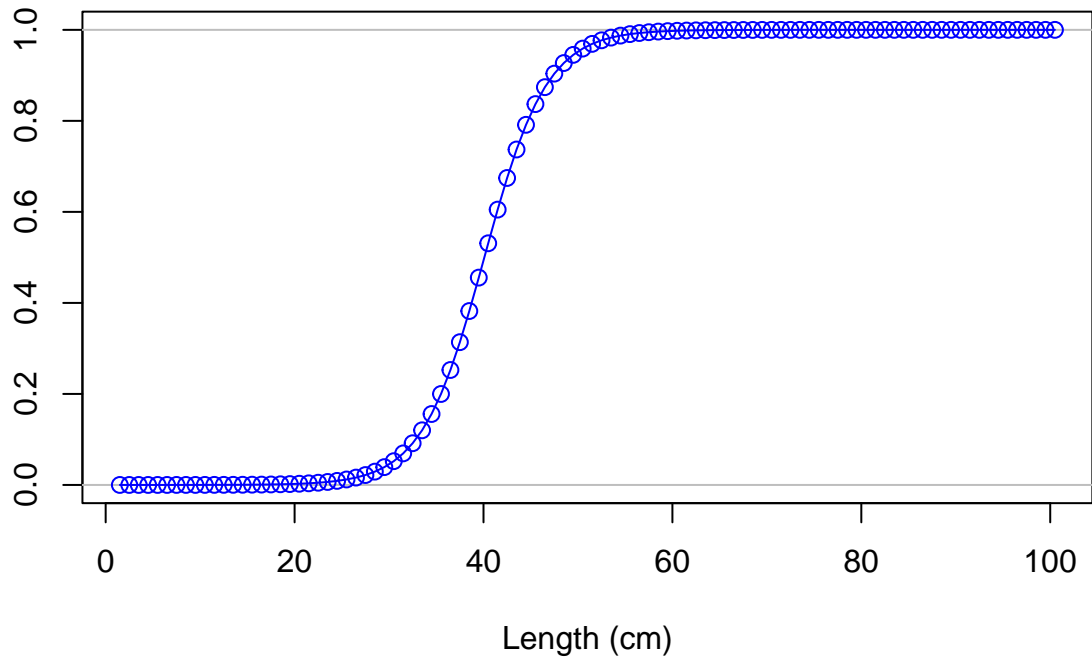
Selectivity



Selectivity

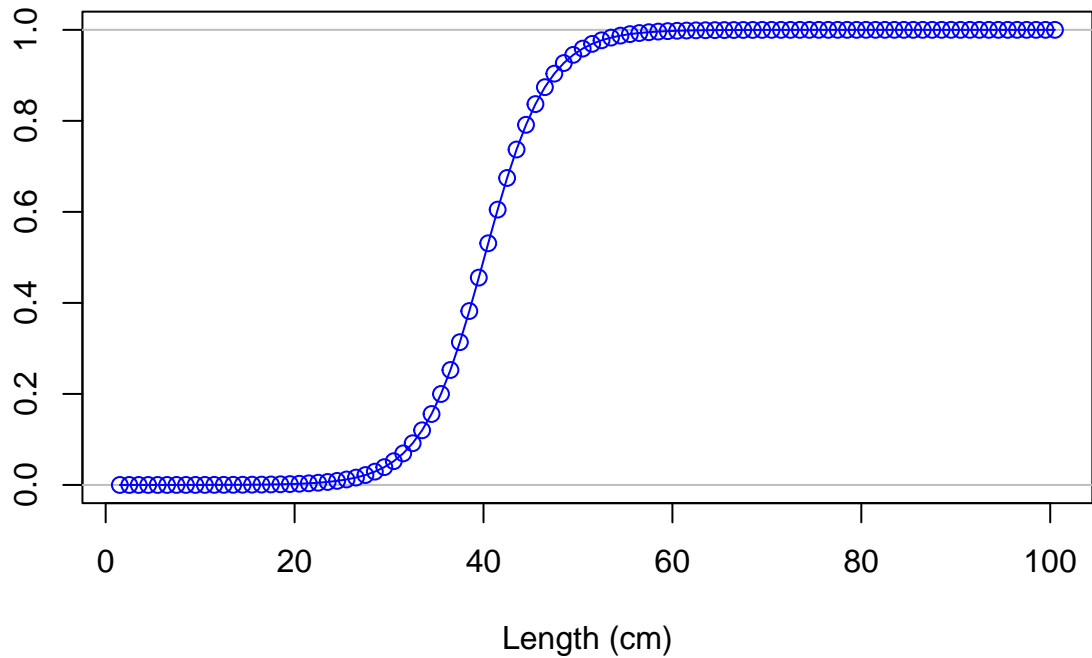


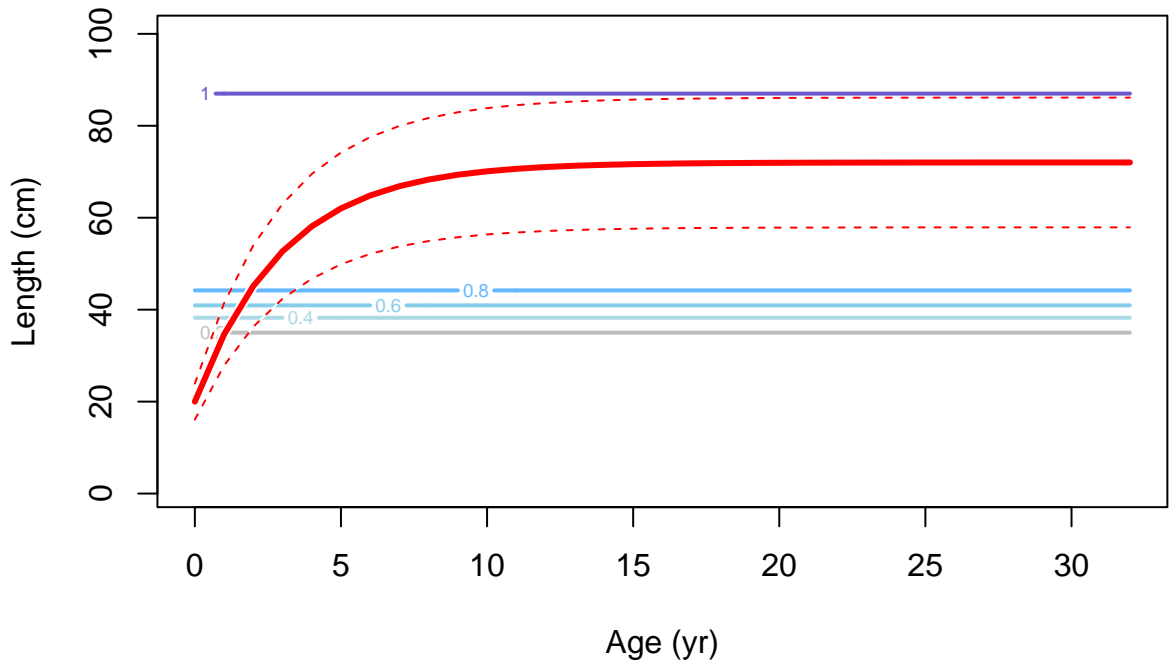
Selectivity

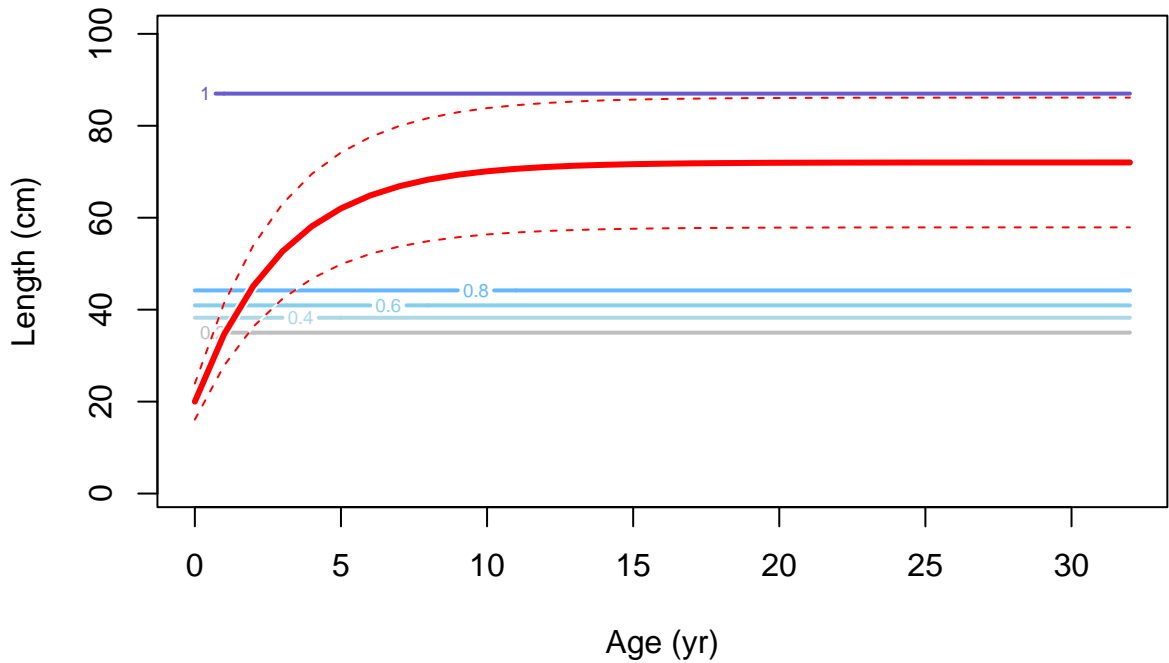




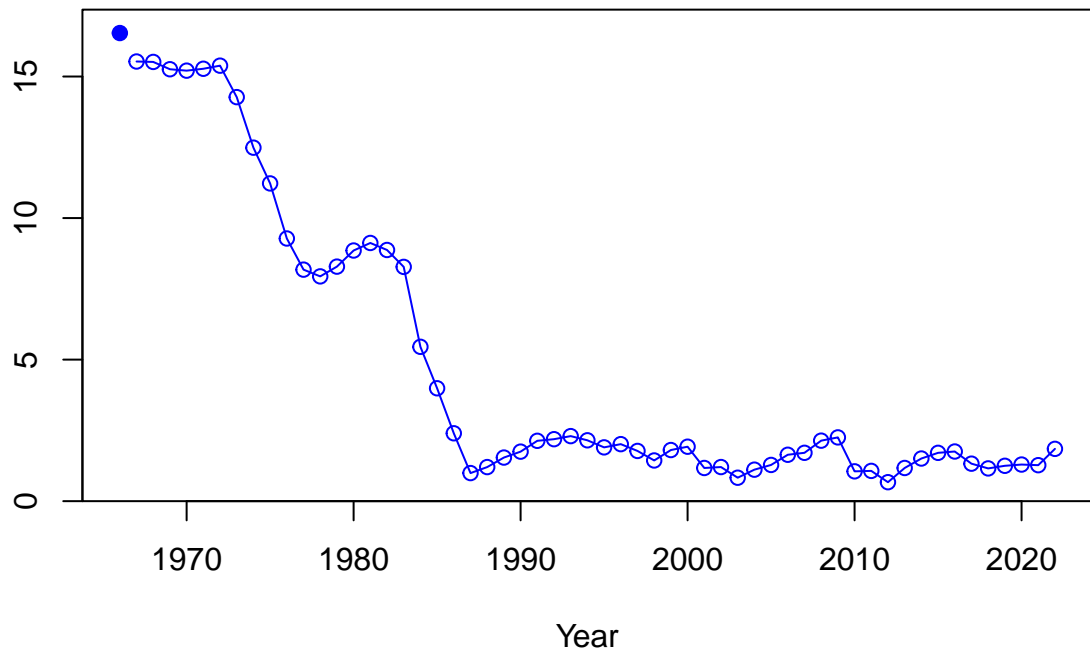
Selectivity



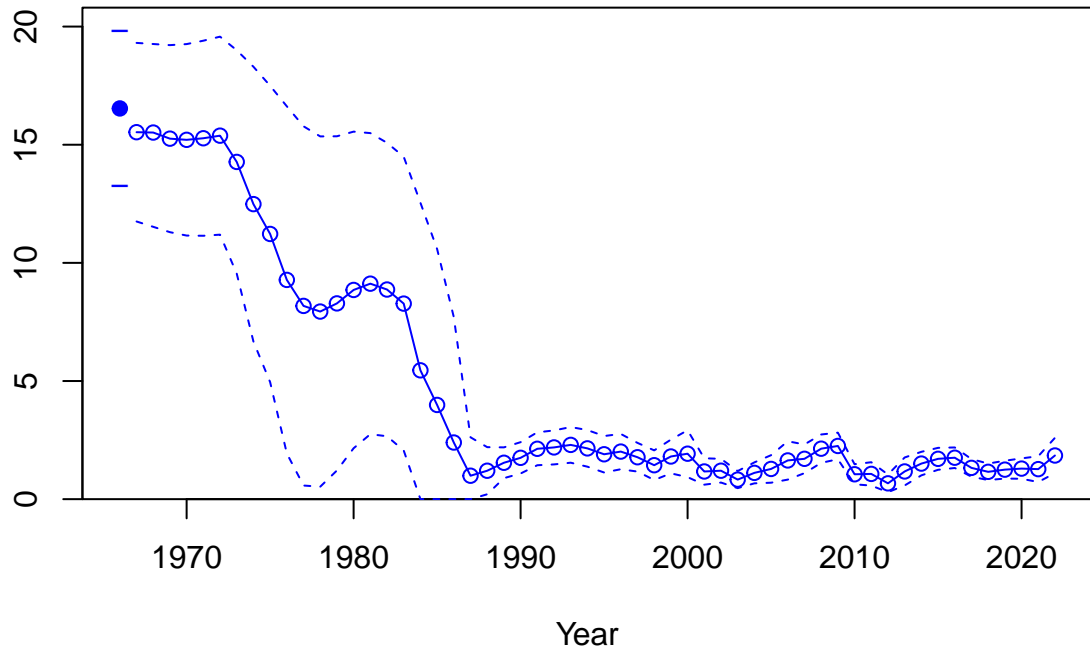




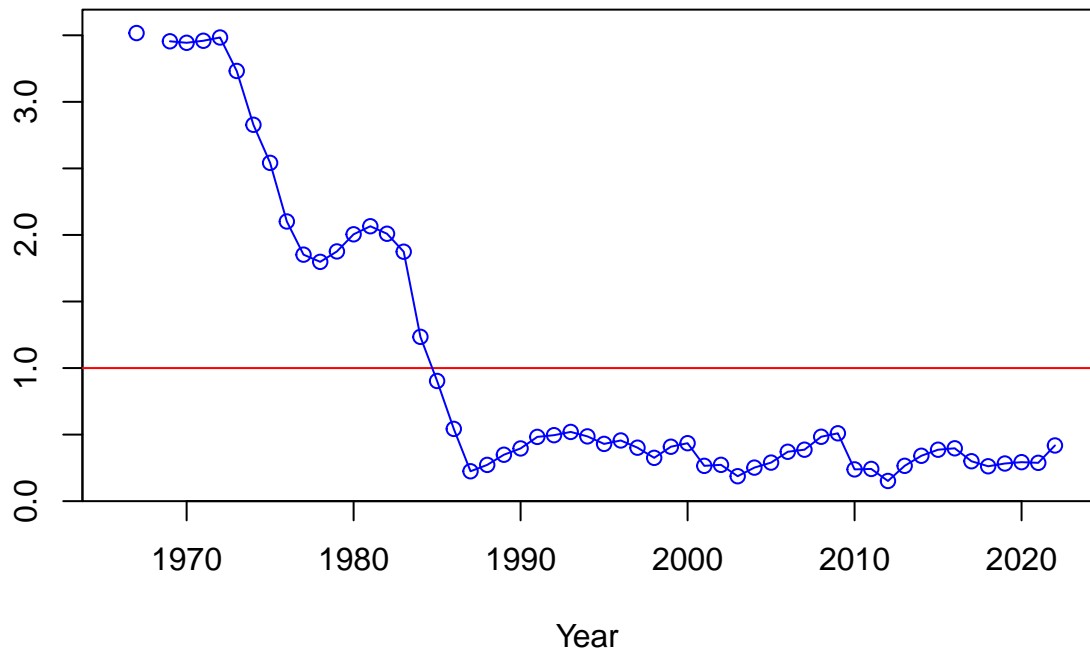
Spawning biomass (mt)



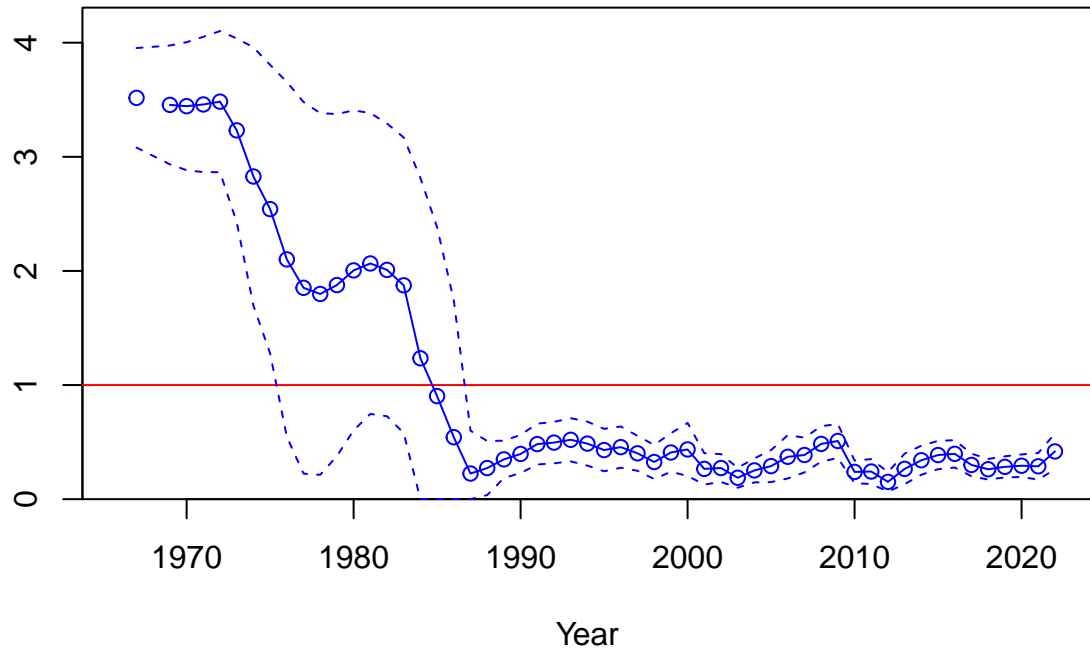
Spawning biomass (mt)

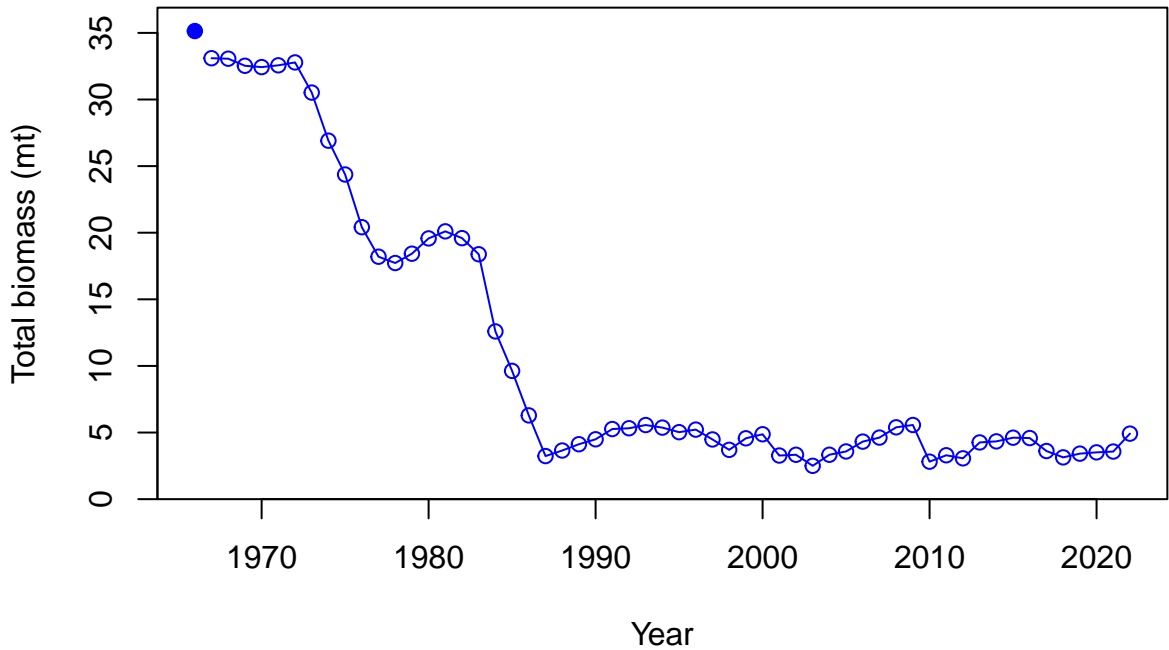


Relative spawning biomass:  $B/B_{MSY}$

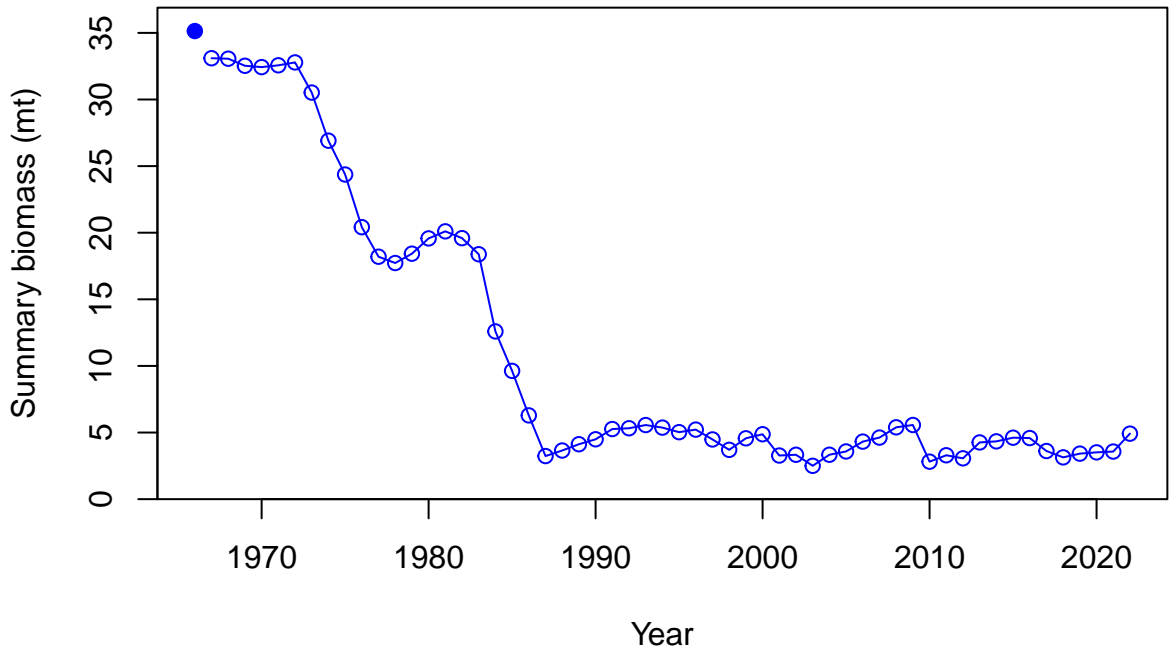


Relative spawning biomass:  $B/B_{MSY}$

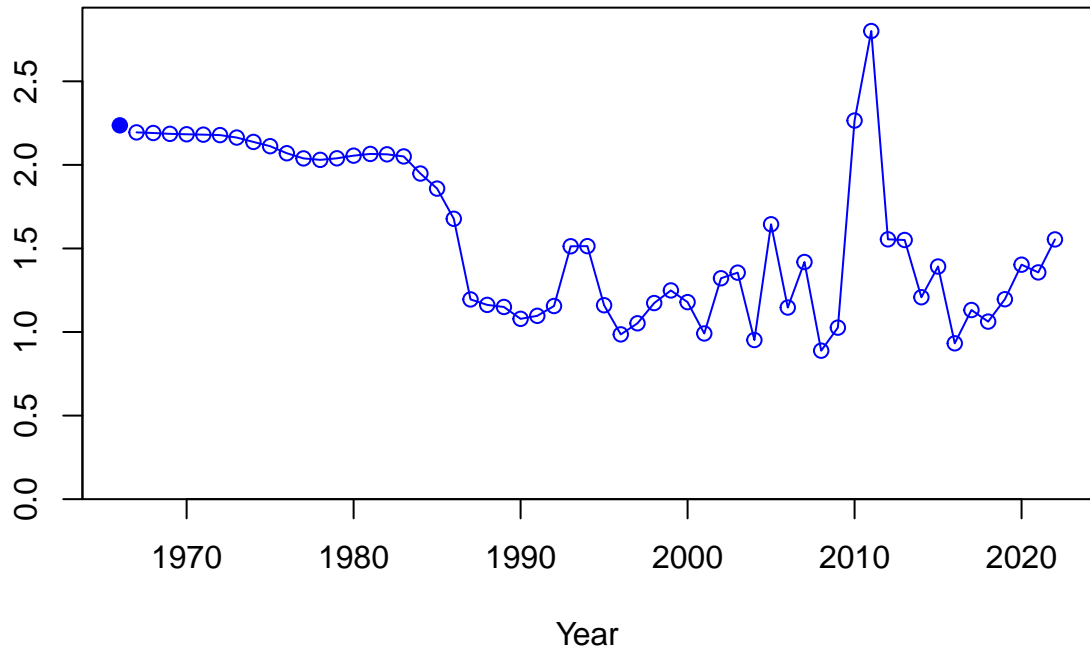




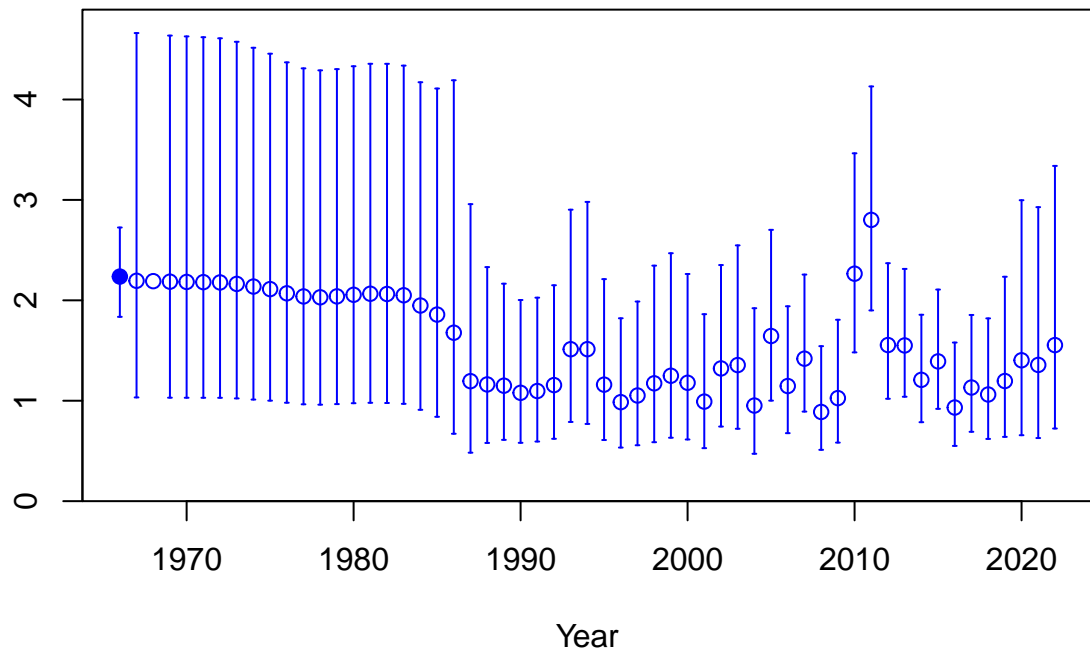




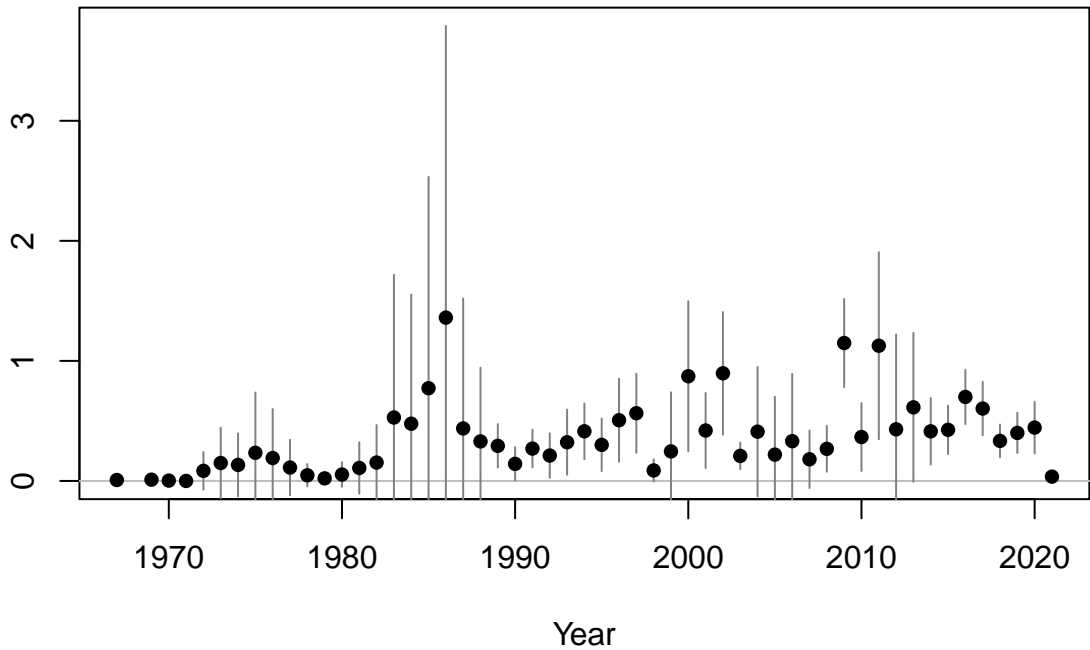
Age-0 recruits (1,000s)

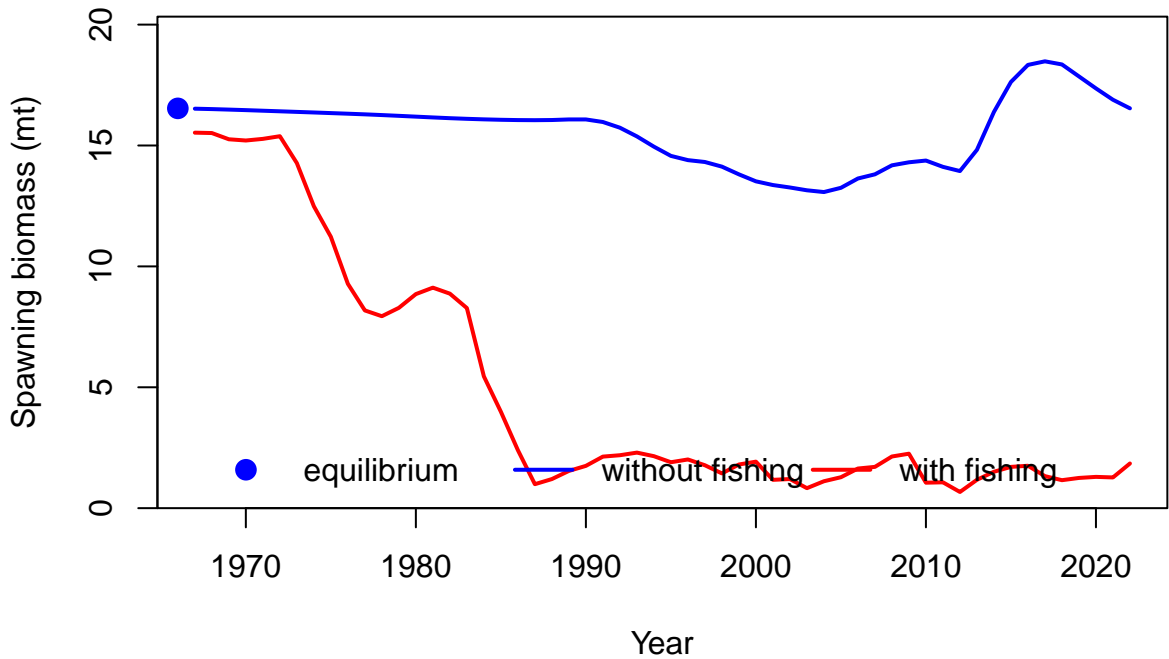


Age-0 recruits (1,000s)

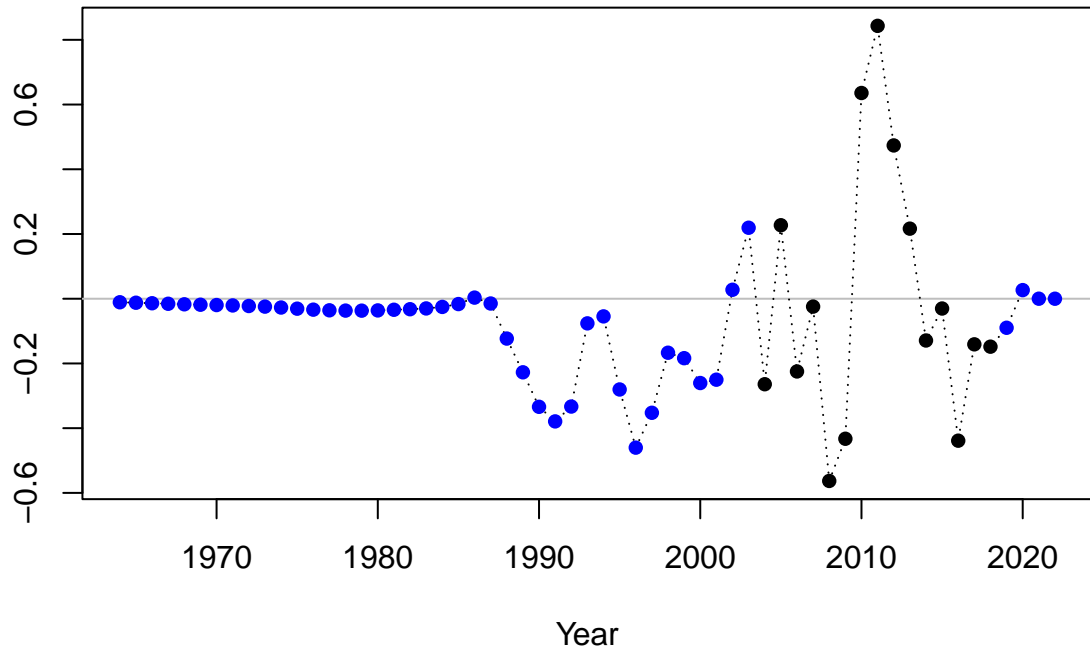


Summary Fishing Mortality

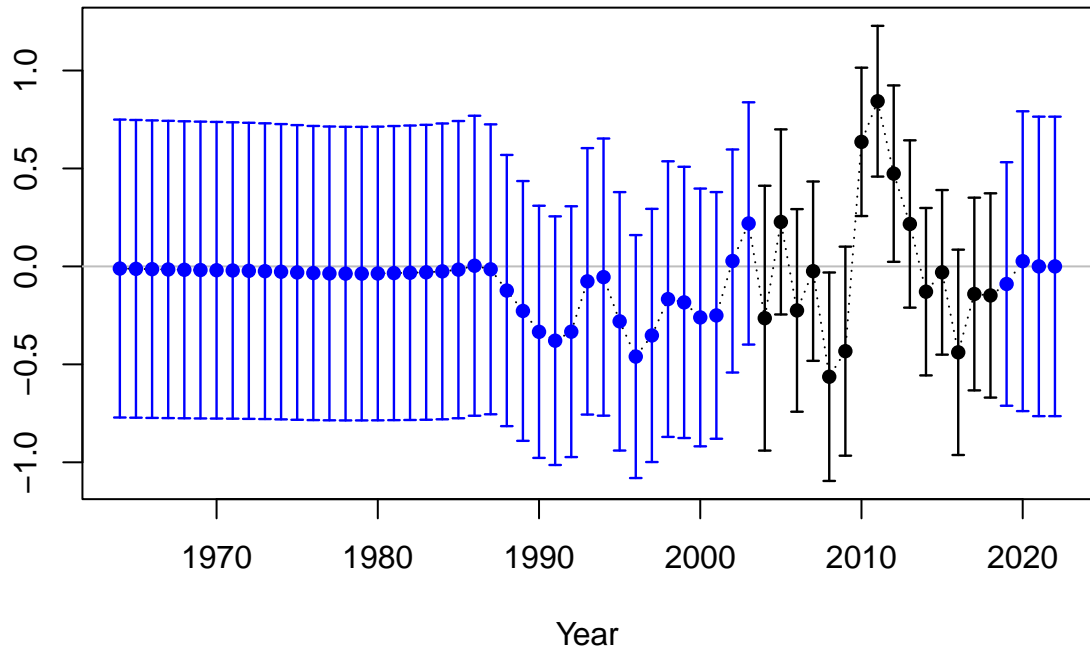




Log recruitment deviation

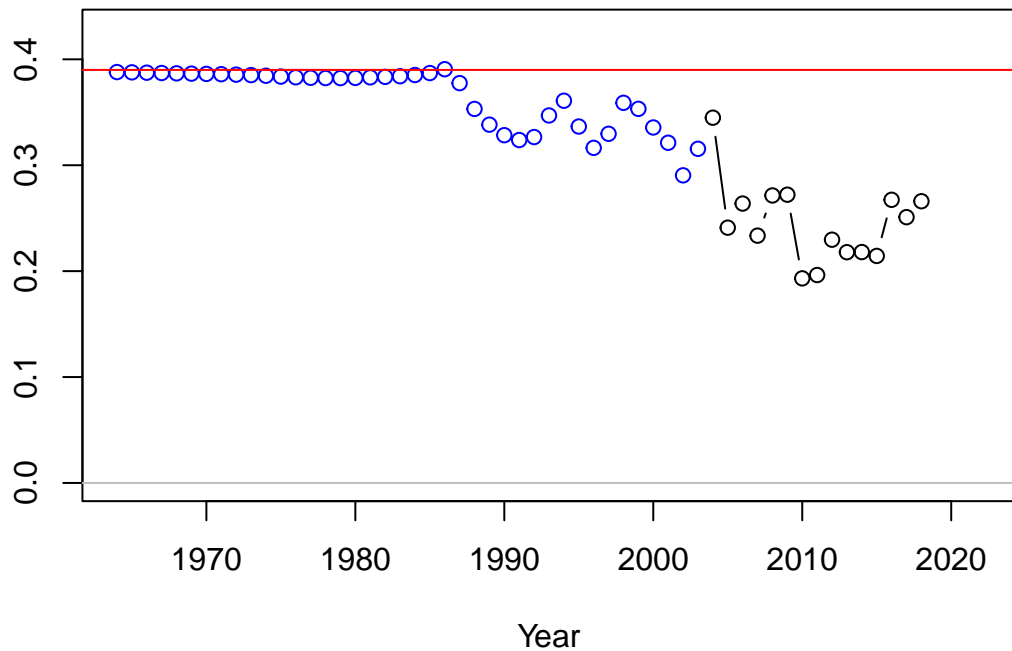


Log recruitment deviation

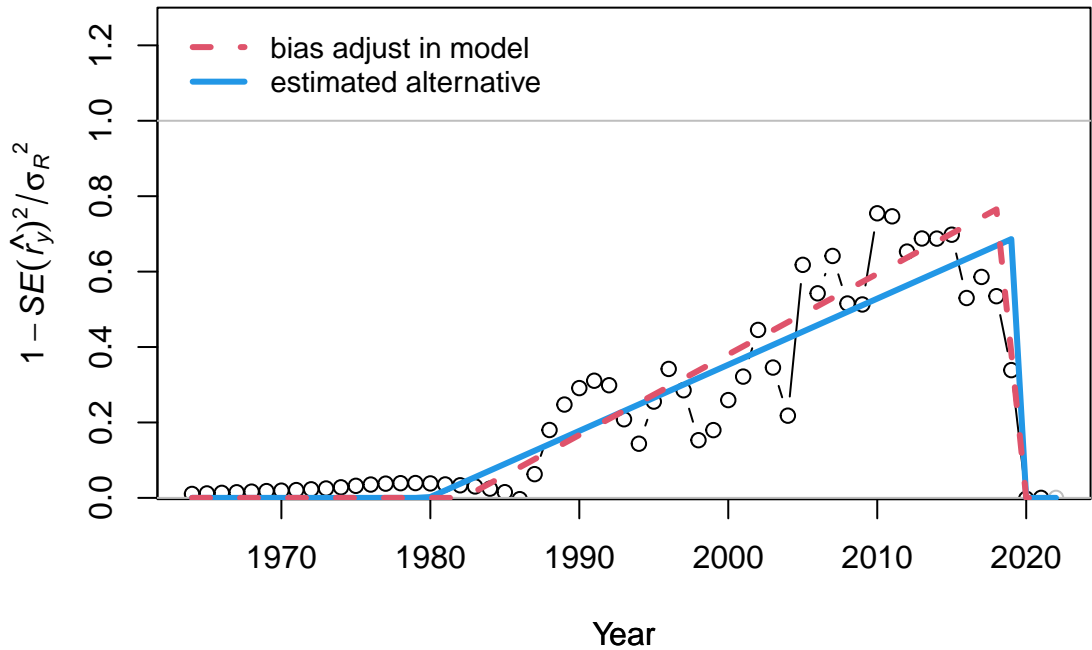


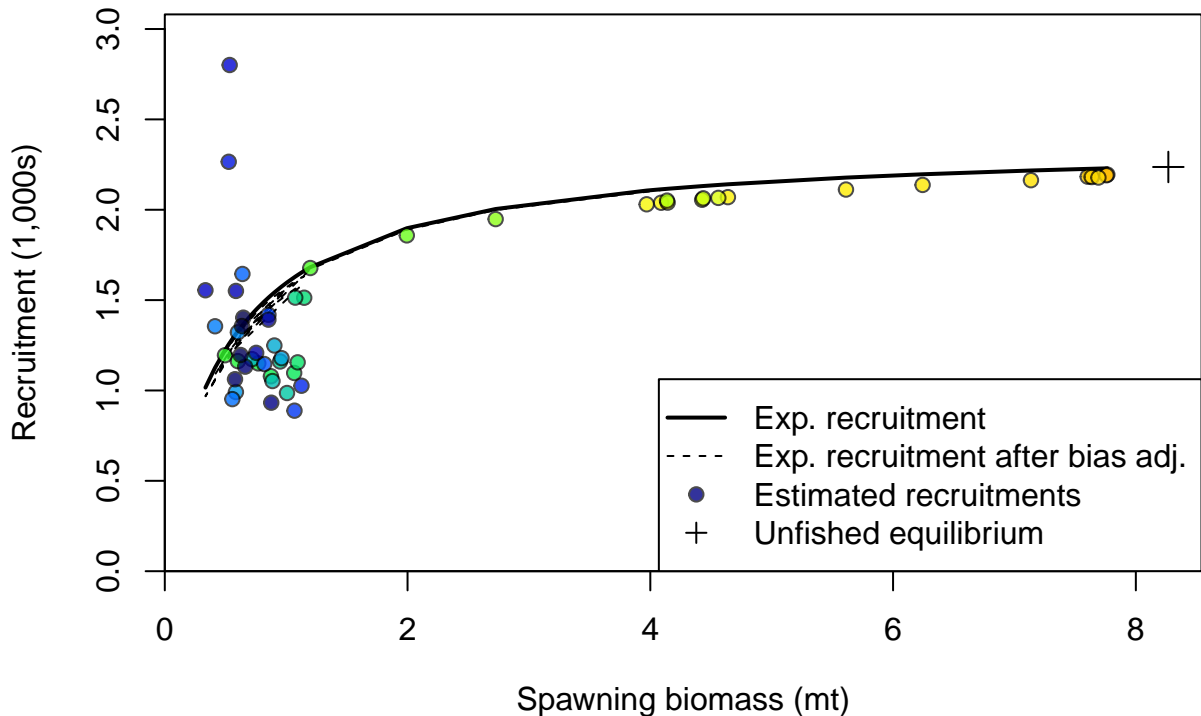
## Recruitment deviation variance

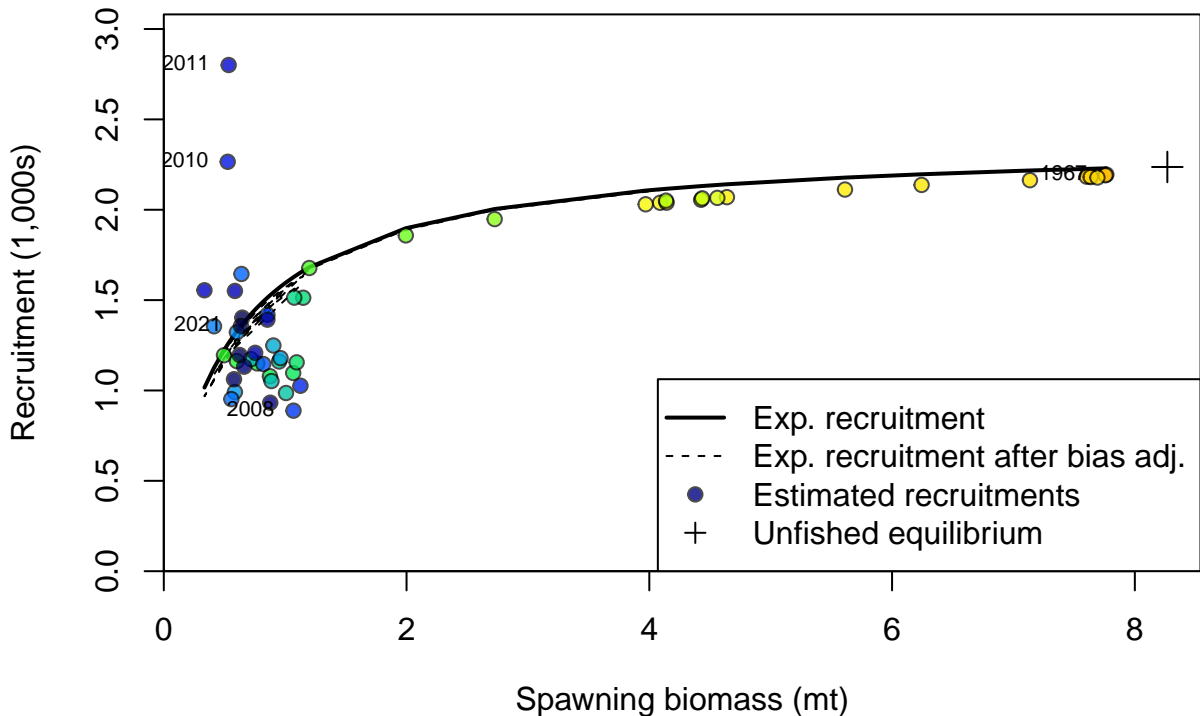
Asymptotic standard error estimate



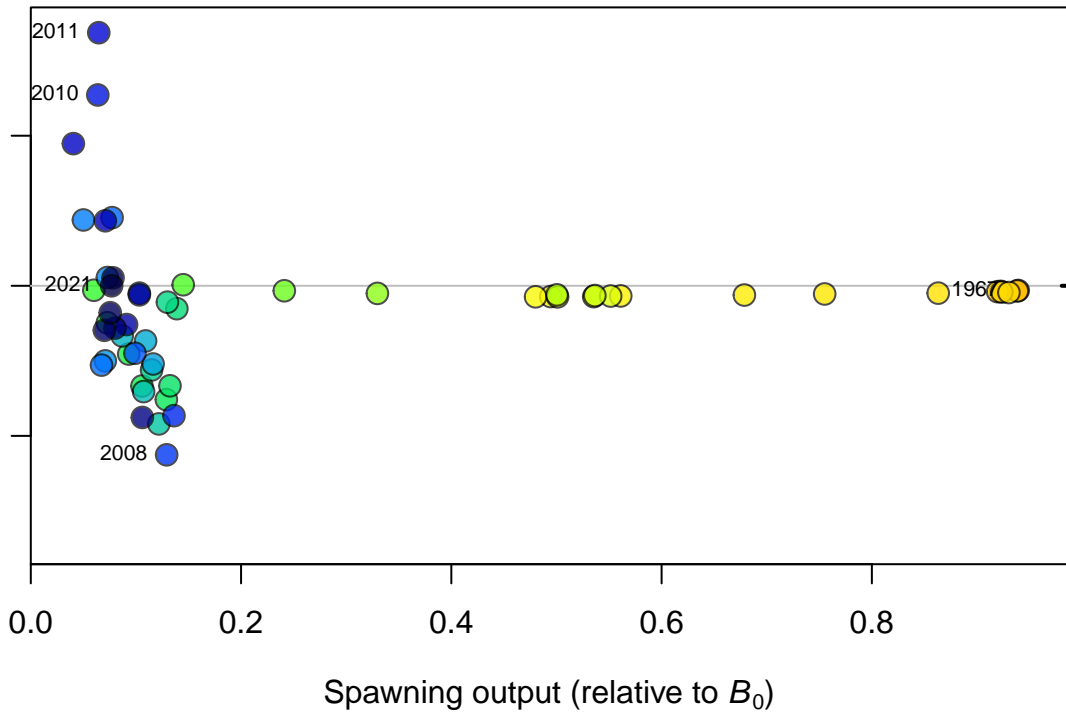


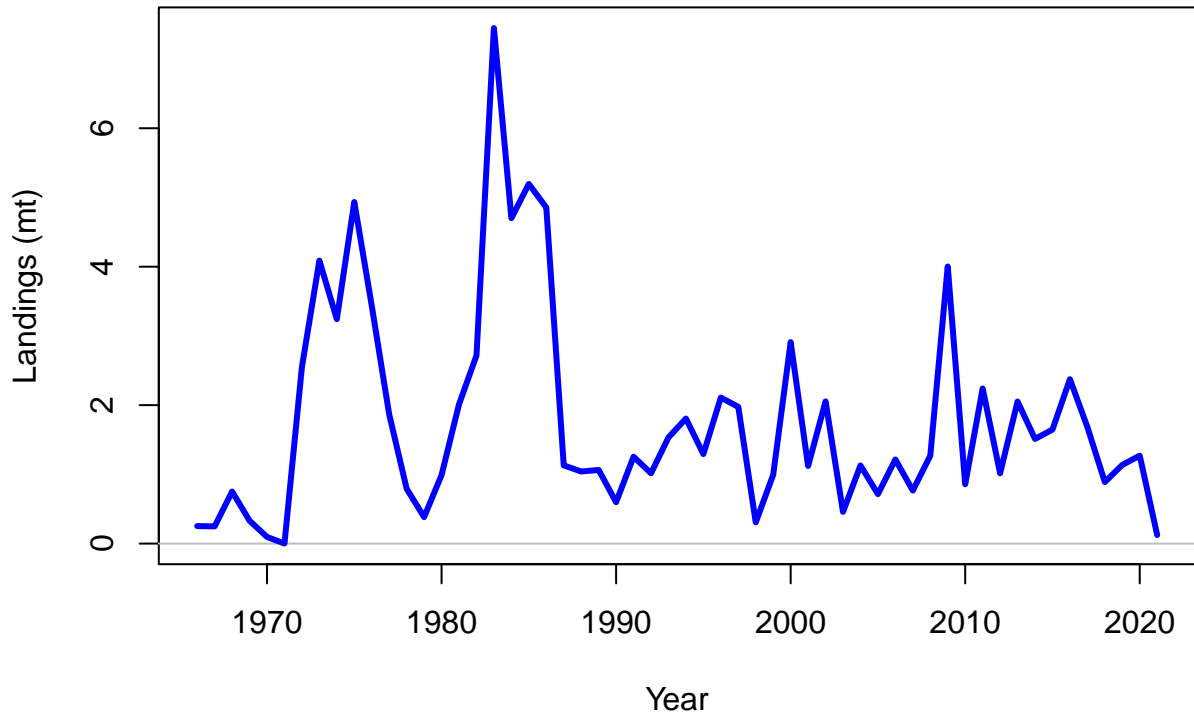


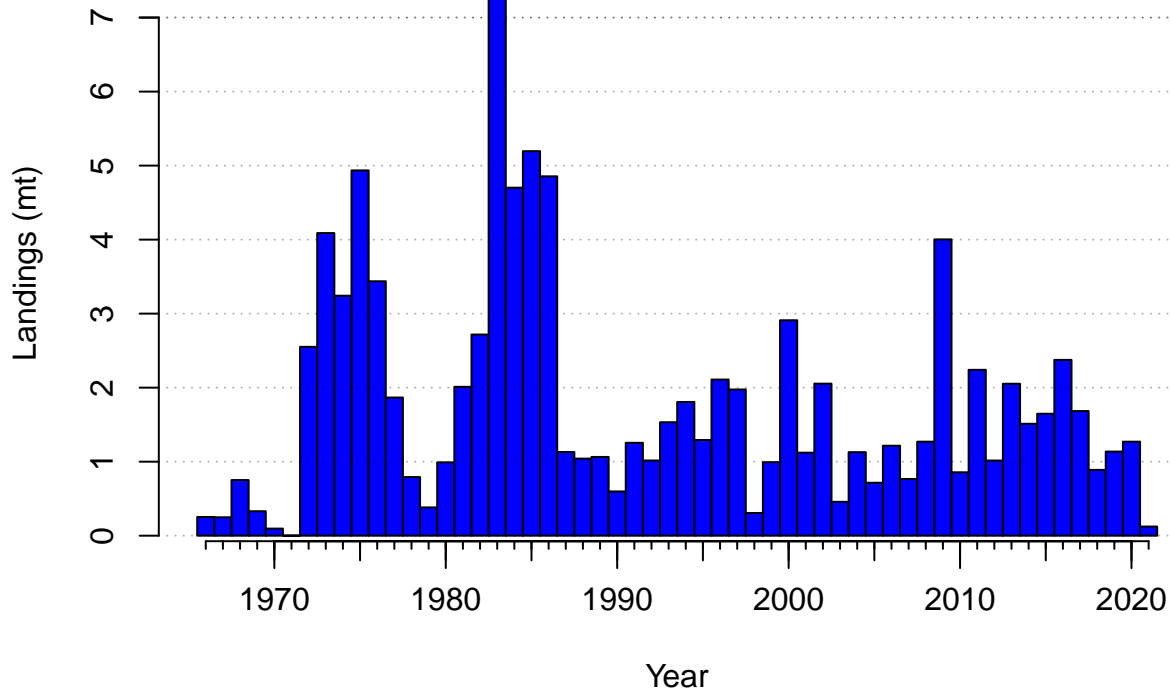




Log recruitment deviation







Observed and expected Landings (mt)

FISHERY  
FISHERY obs.

6  
4  
2  
0

1970

1980

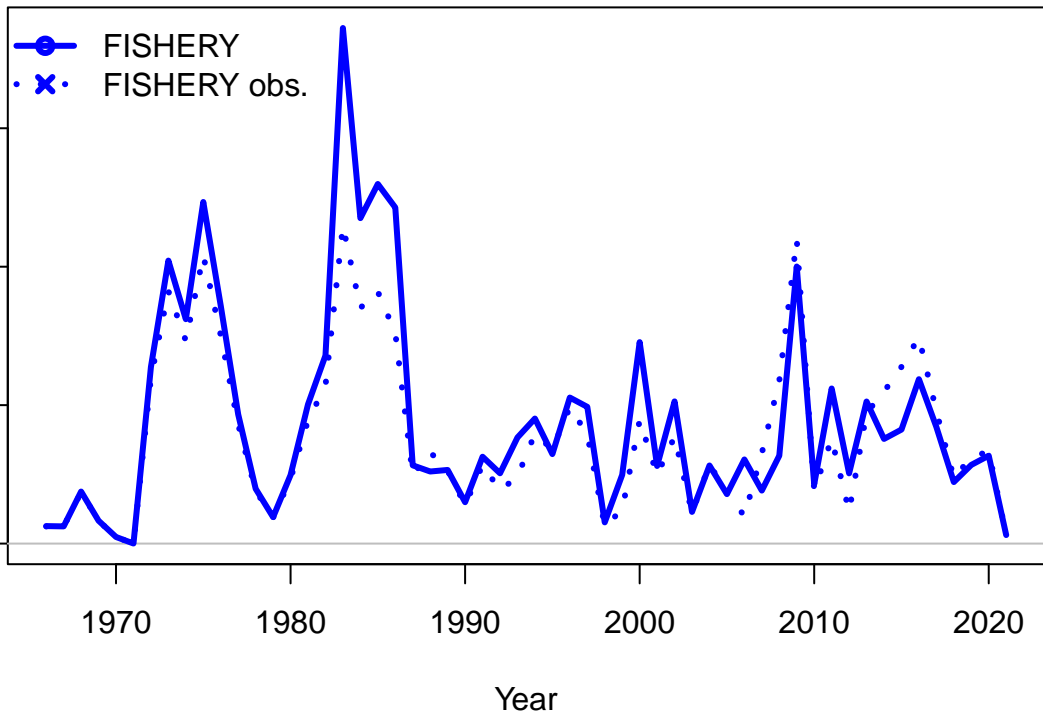
1990

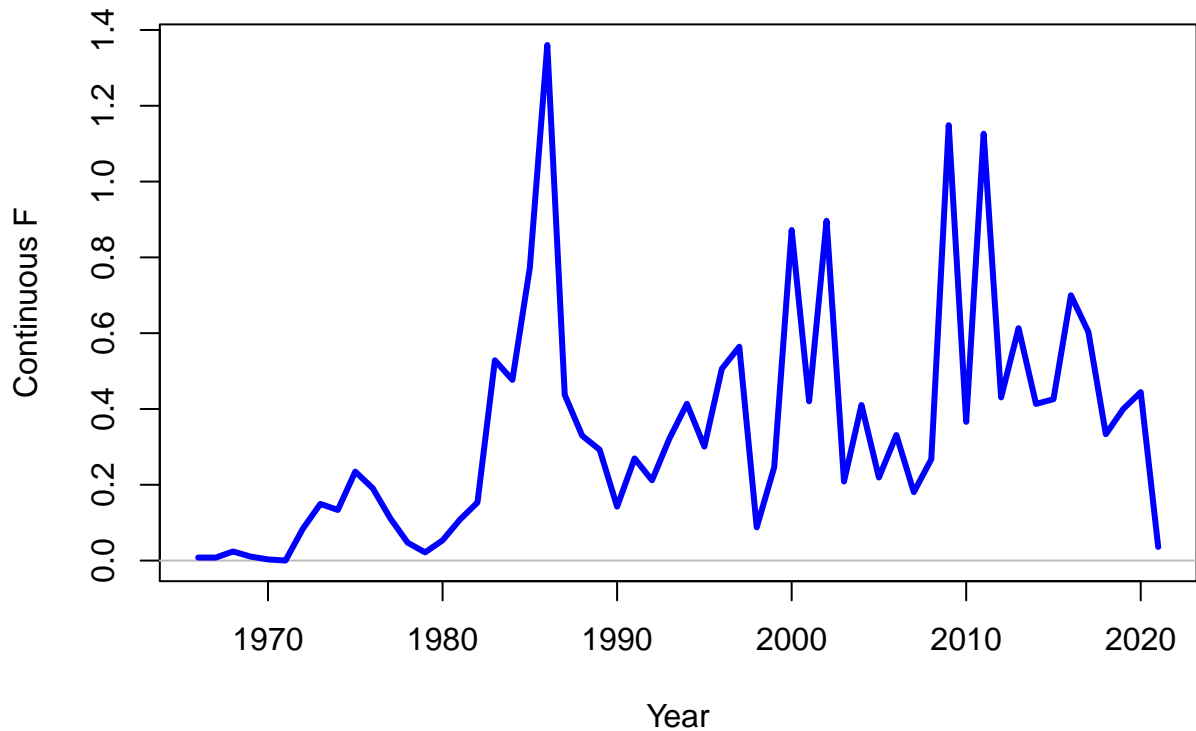
2000

2010

2020

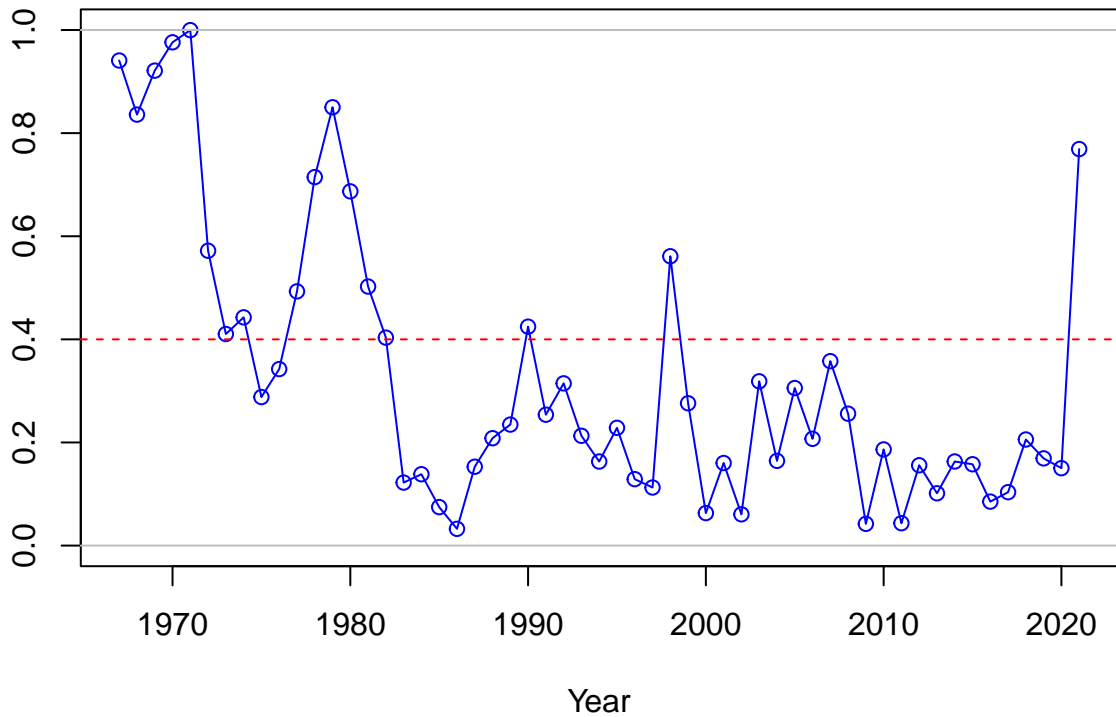
Year

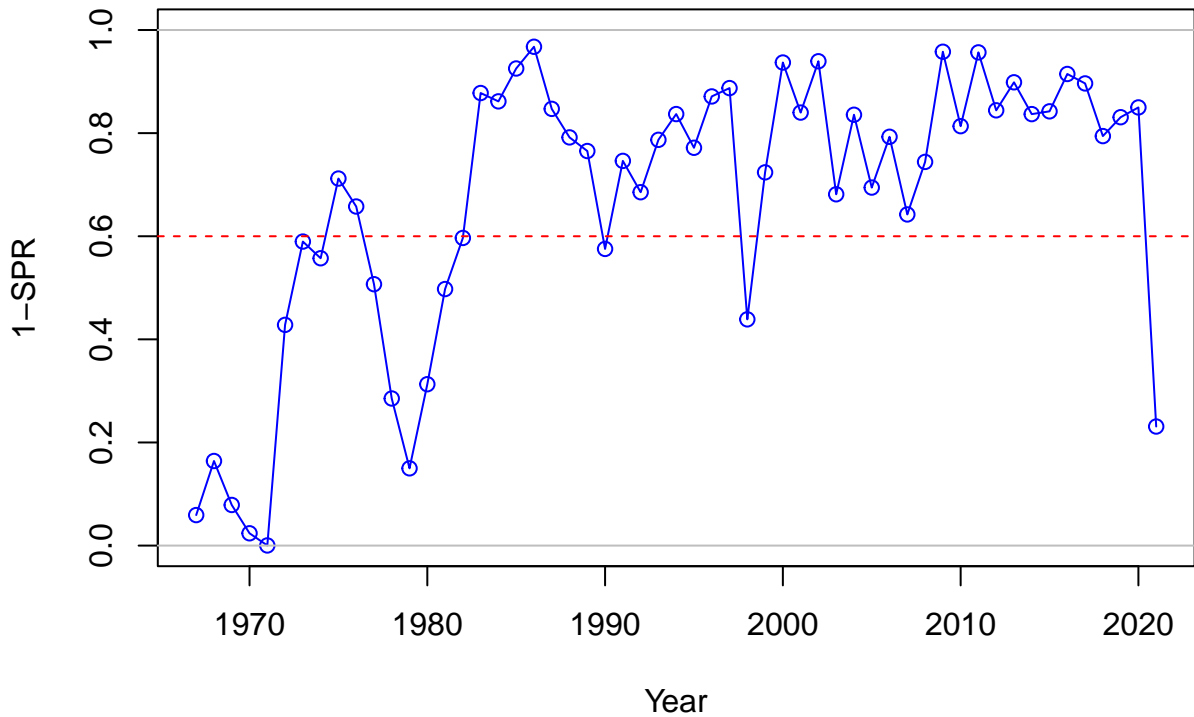




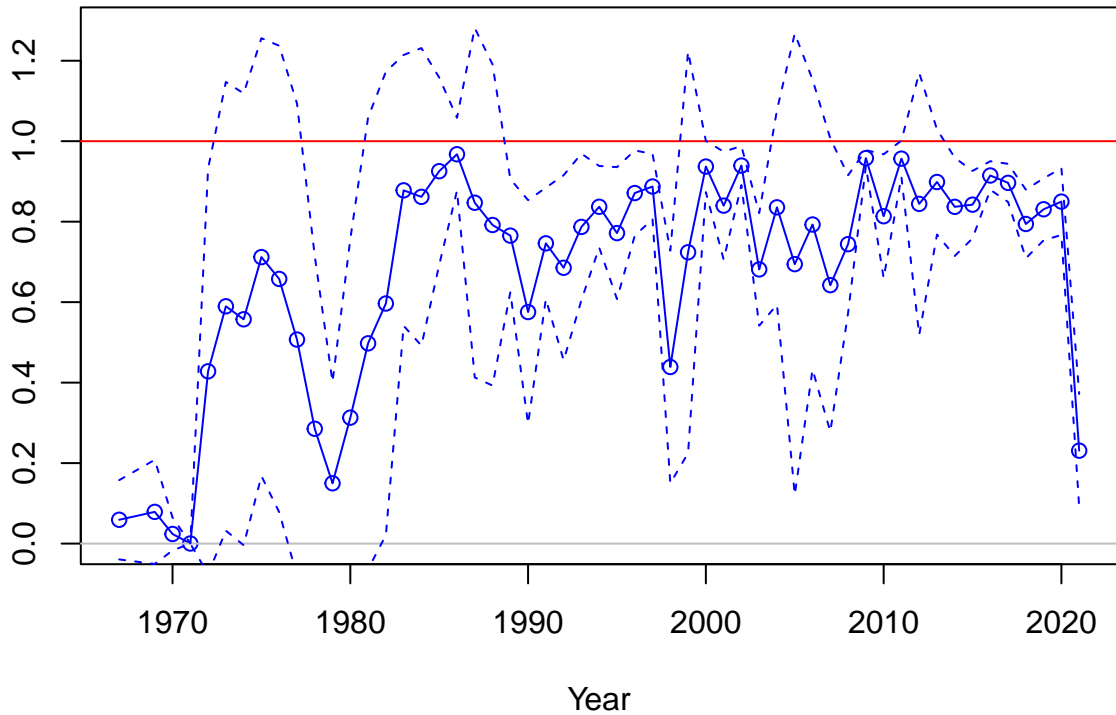


SPR

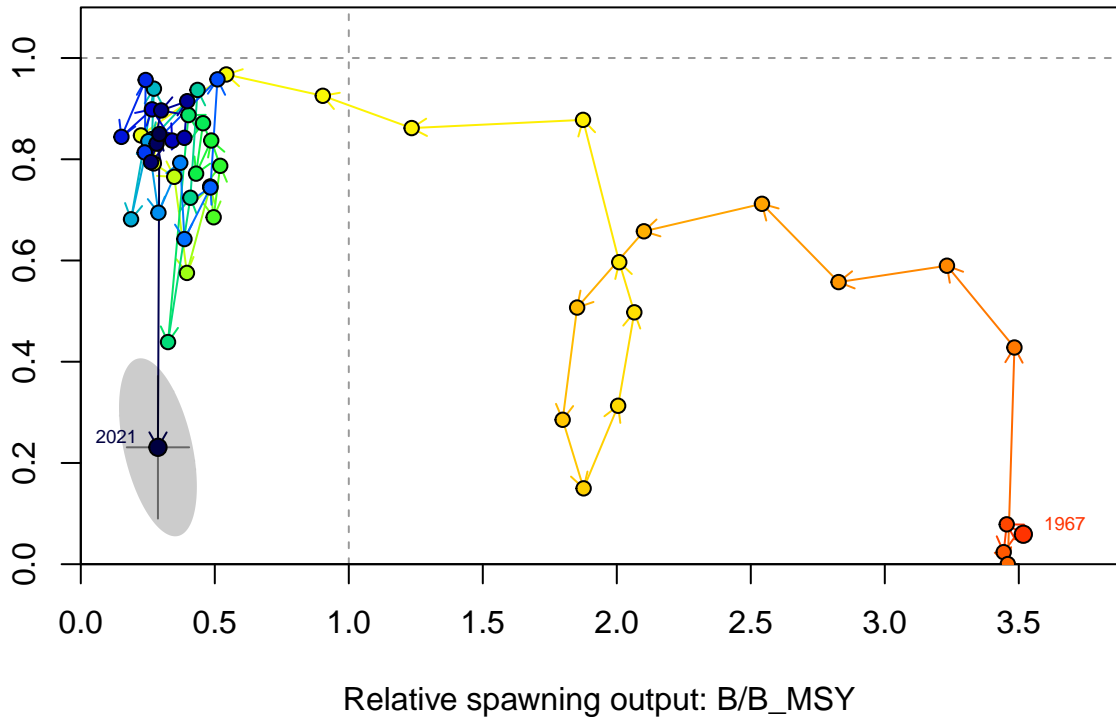




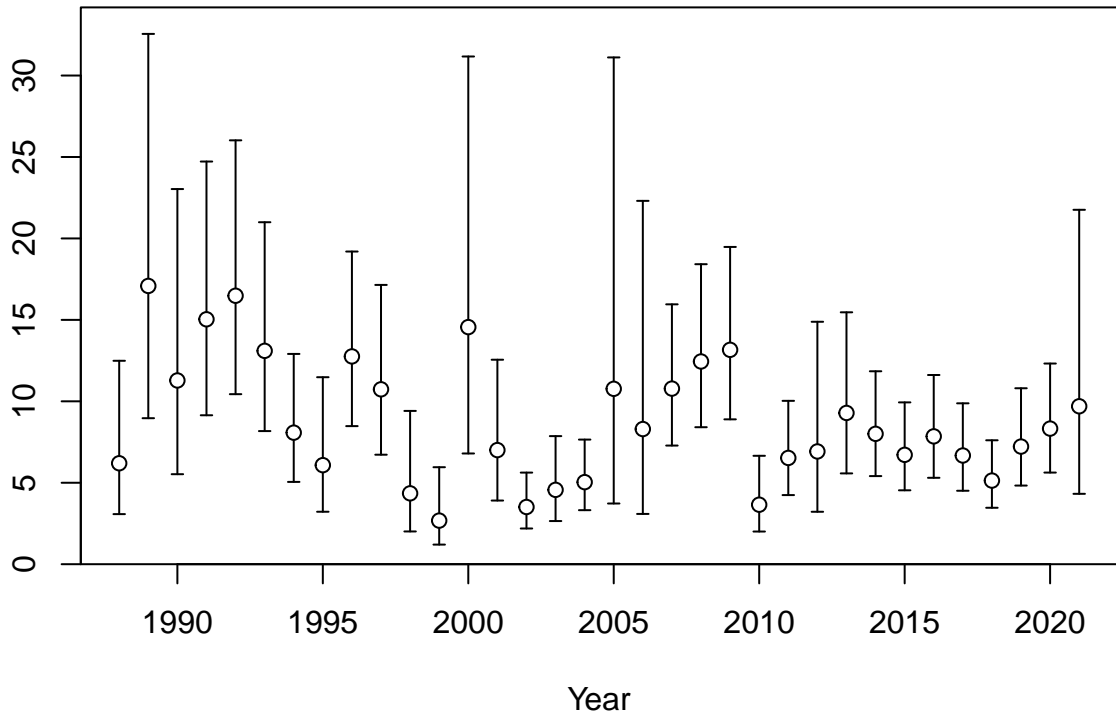
Fishing intensity: 1-SPR



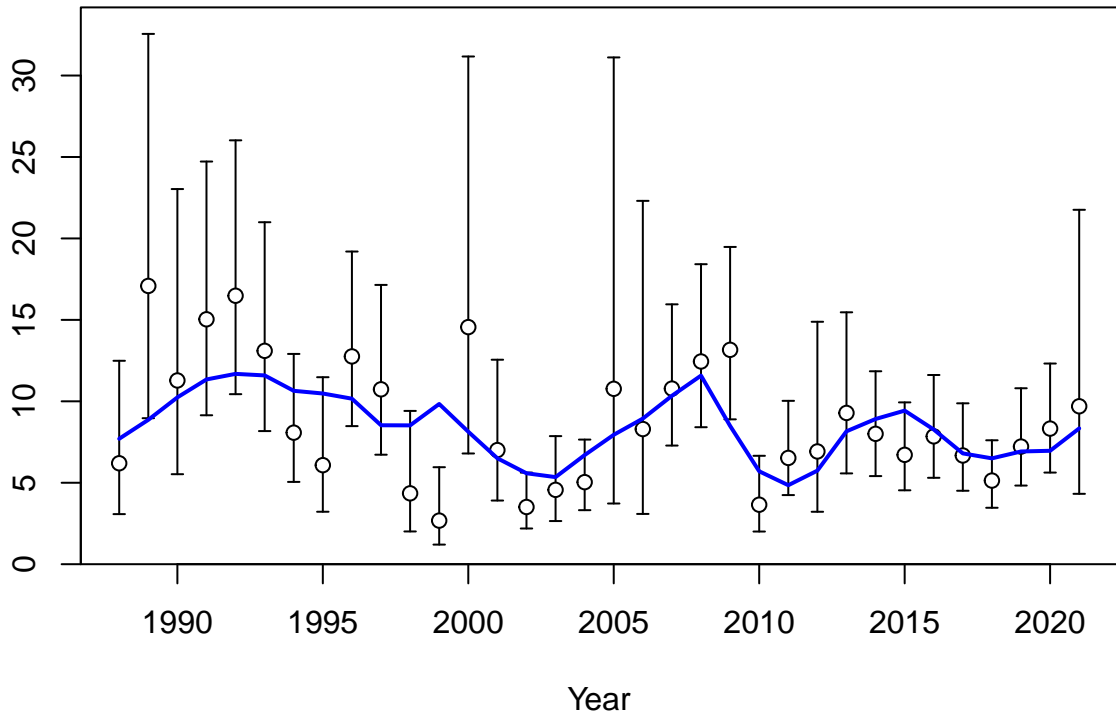
Fishing intensity: 1-SPR

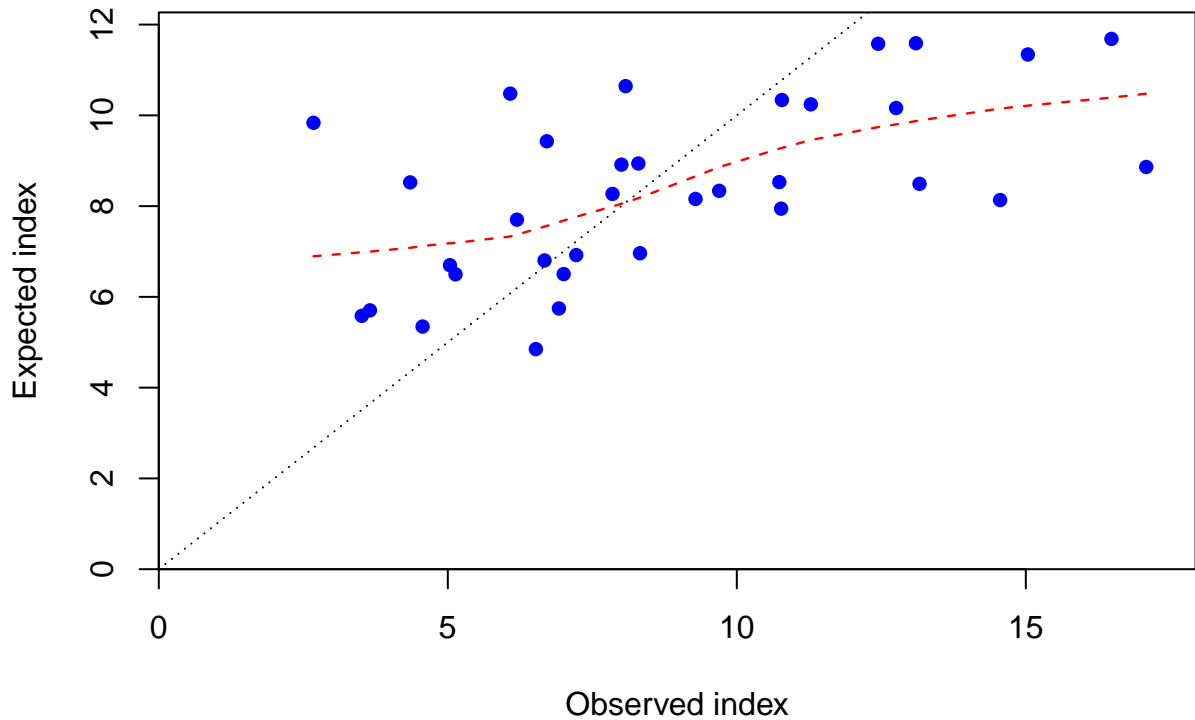


Index

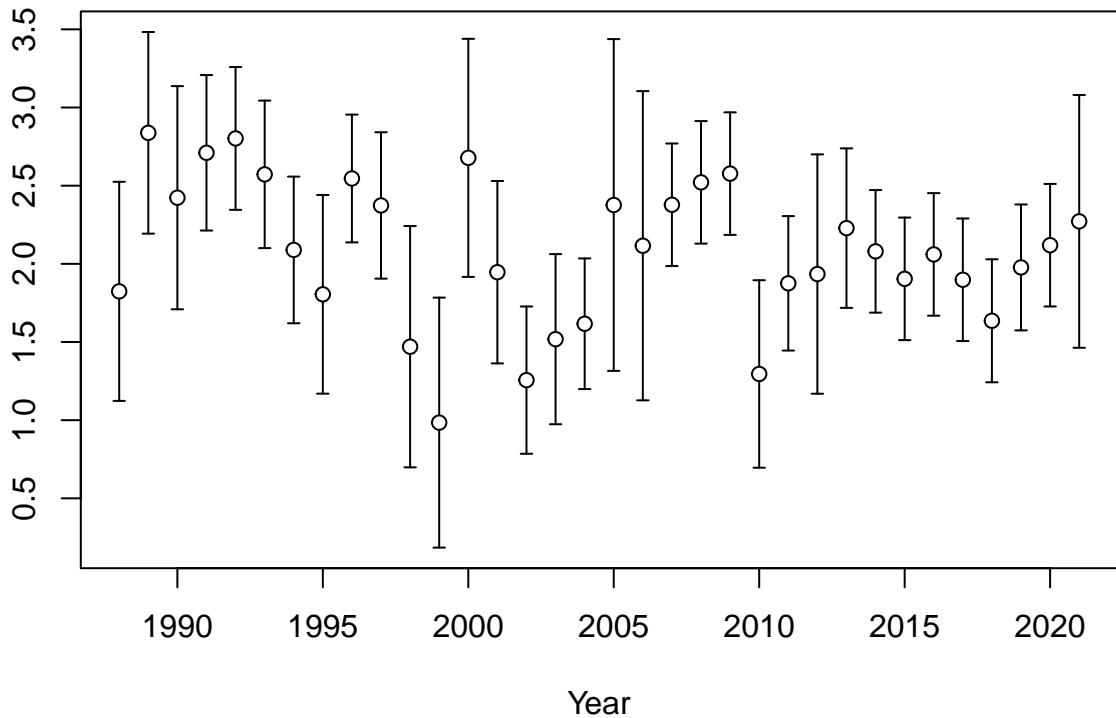


Index



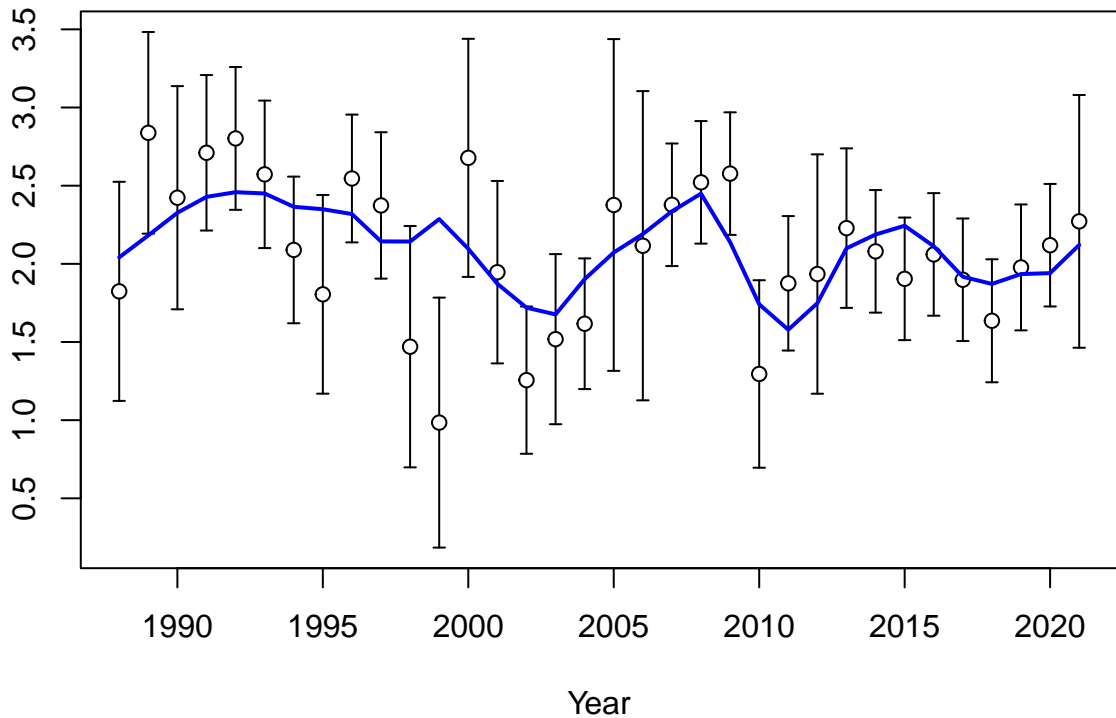


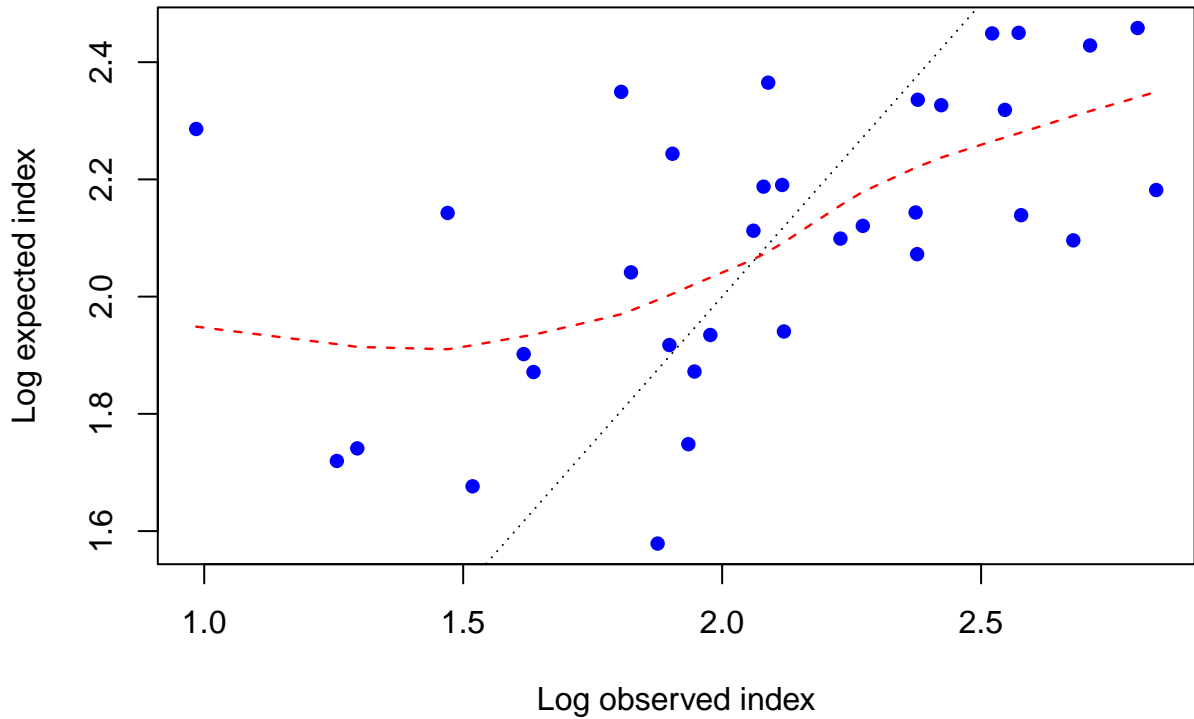
Log index

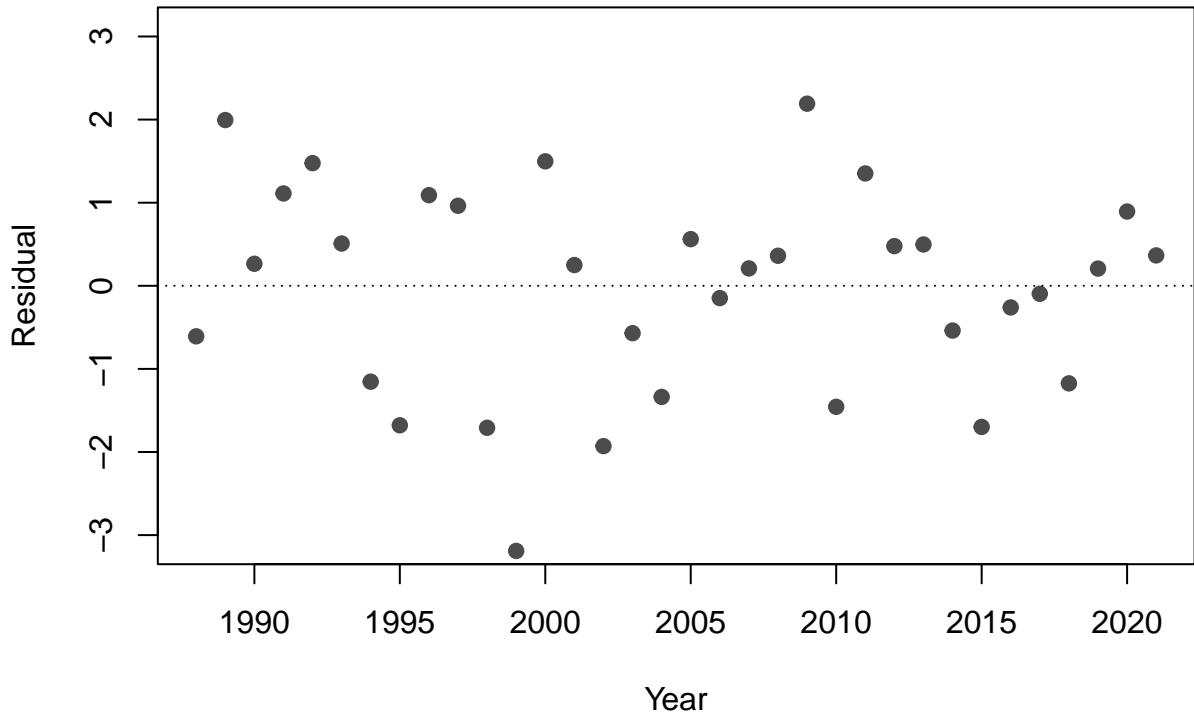


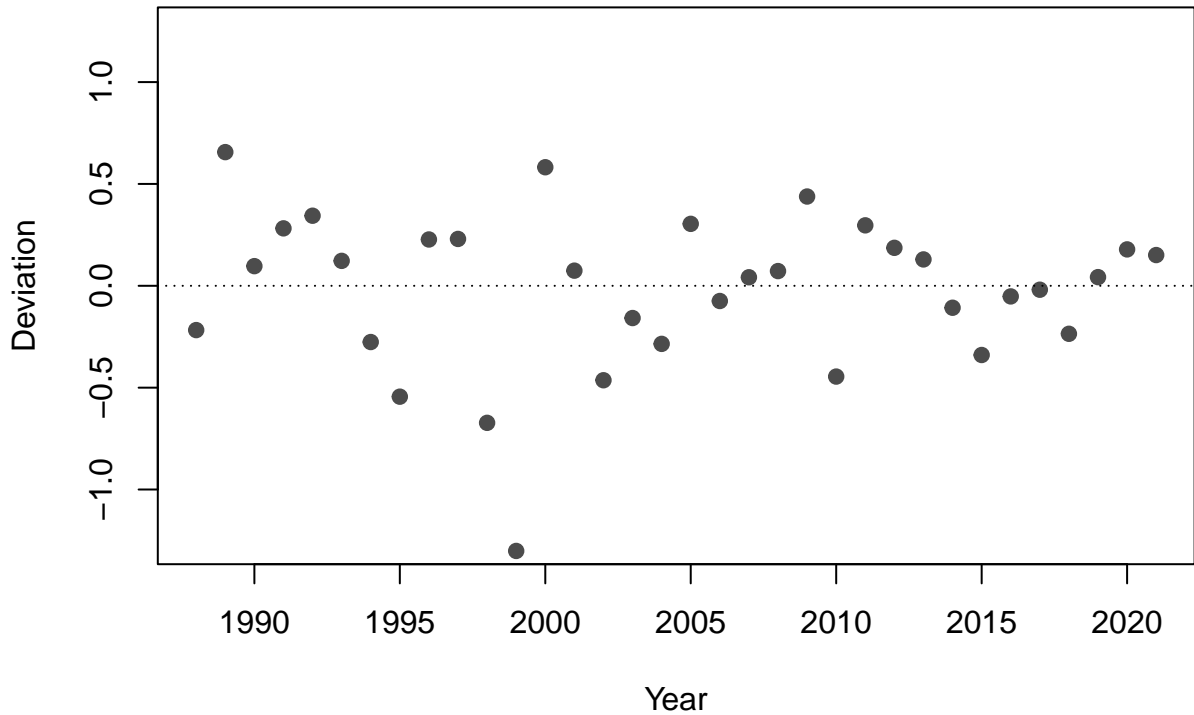


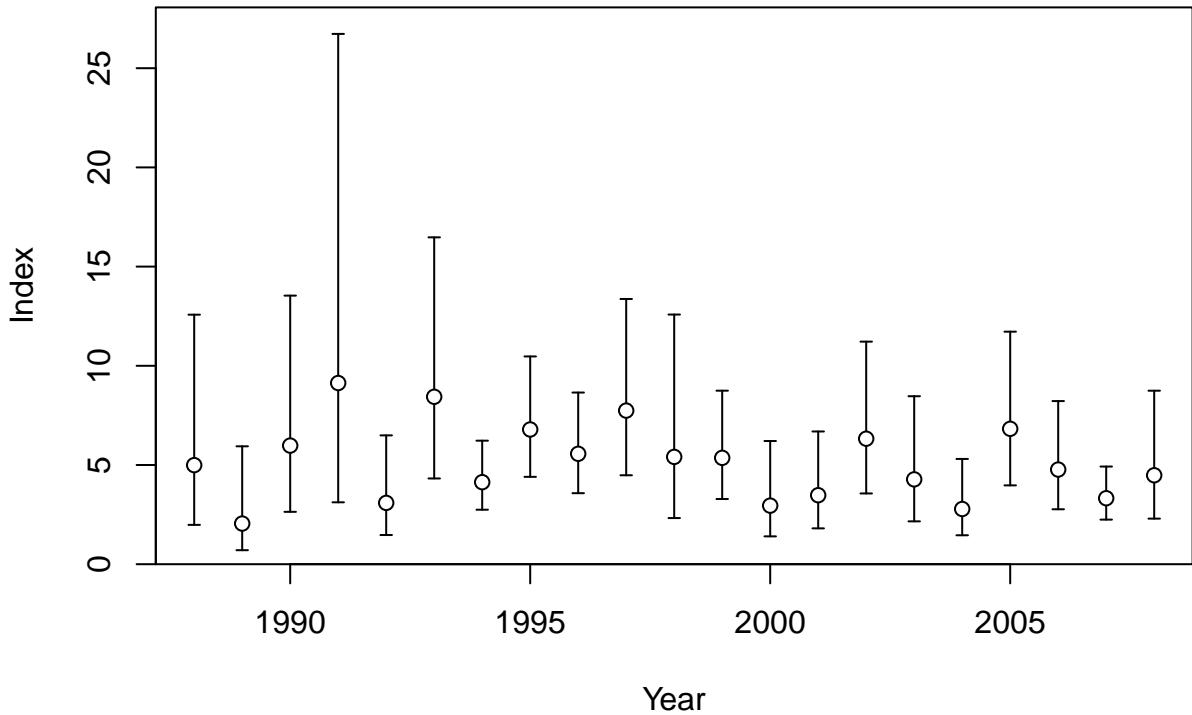
Log index

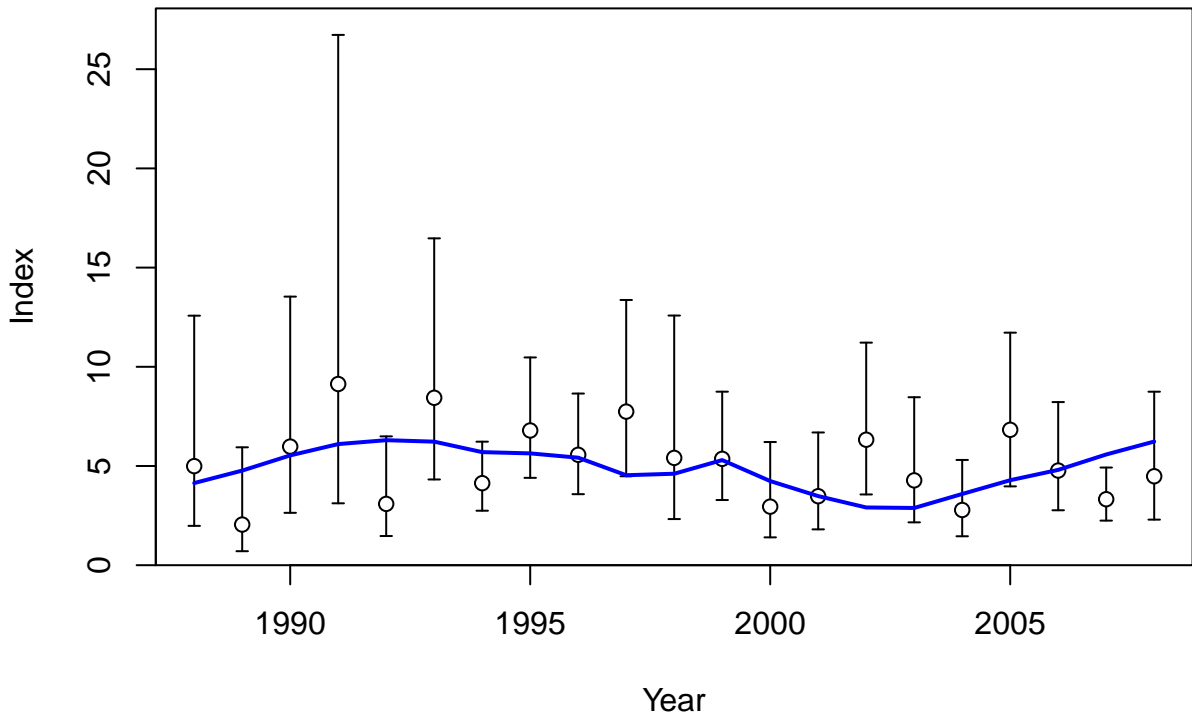


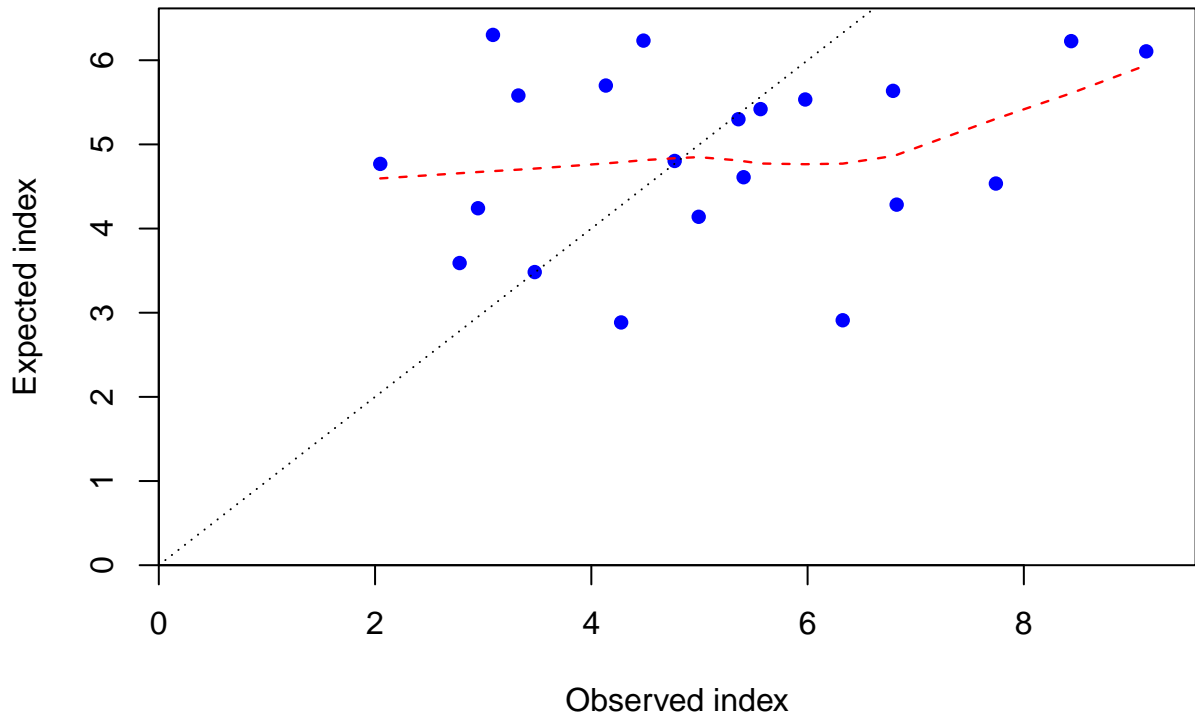


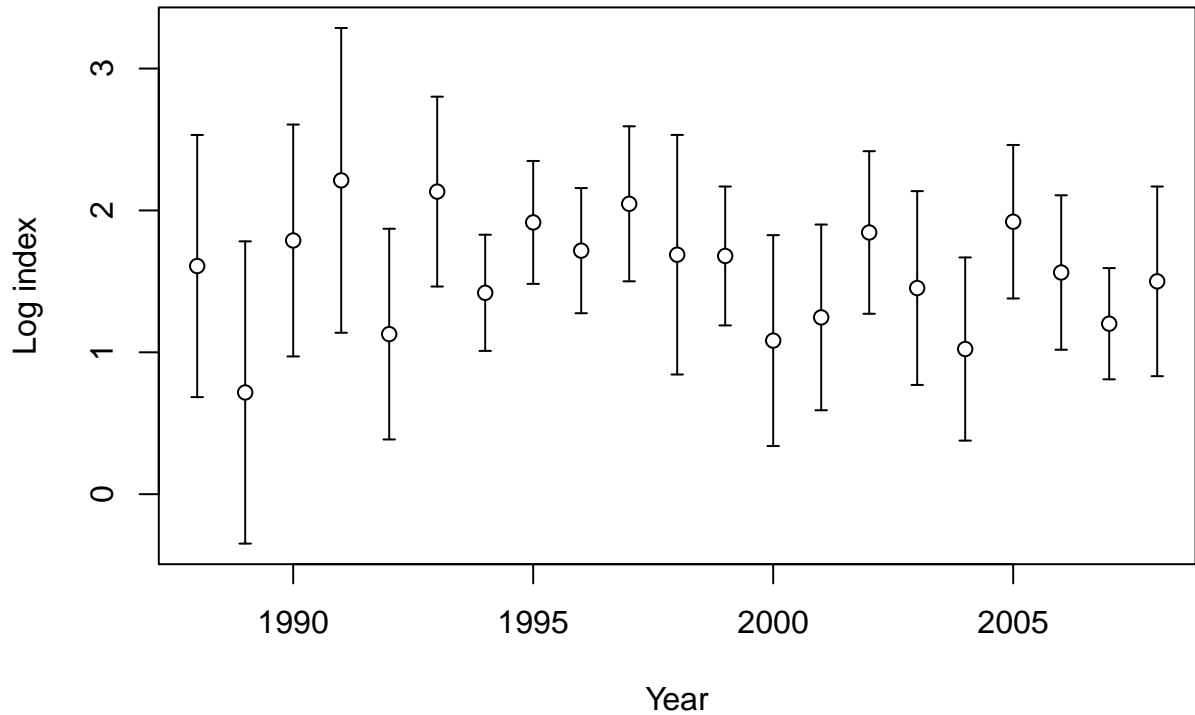




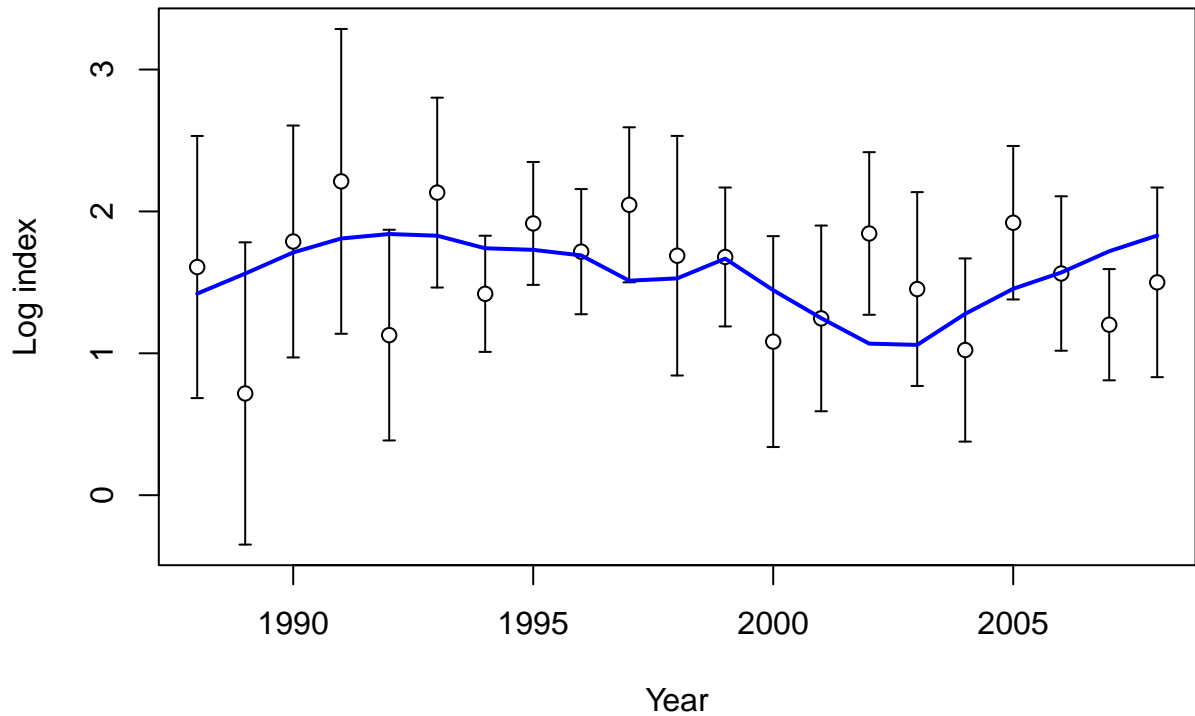


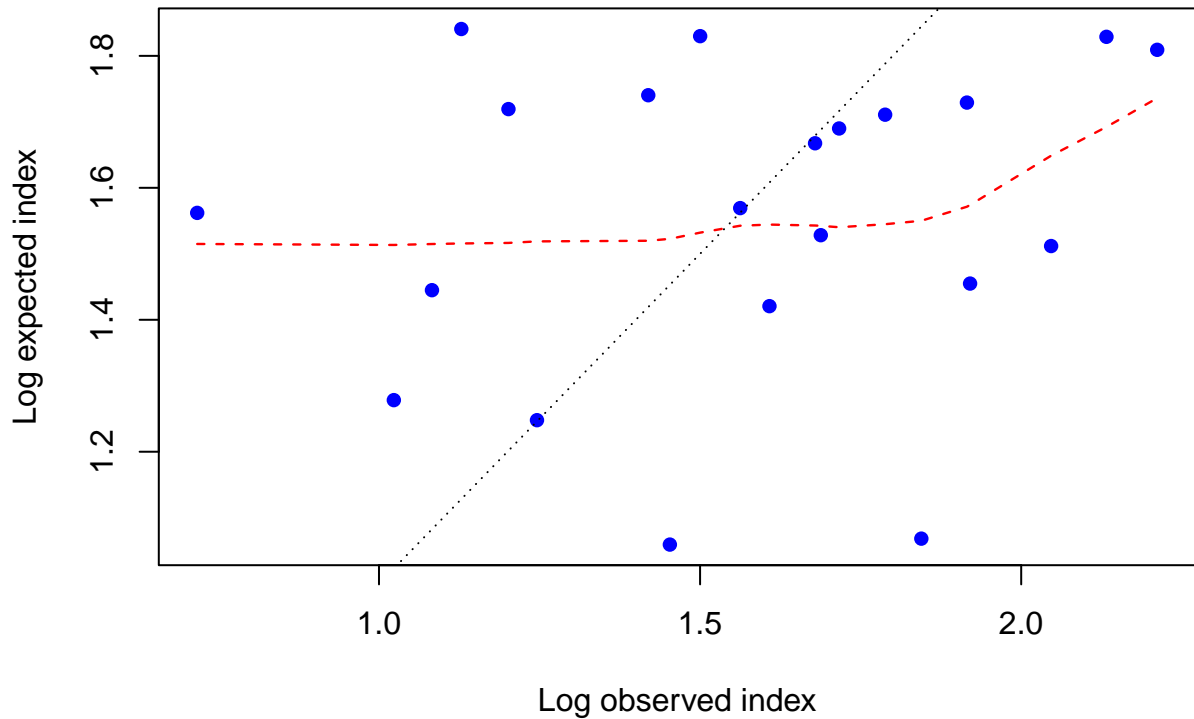


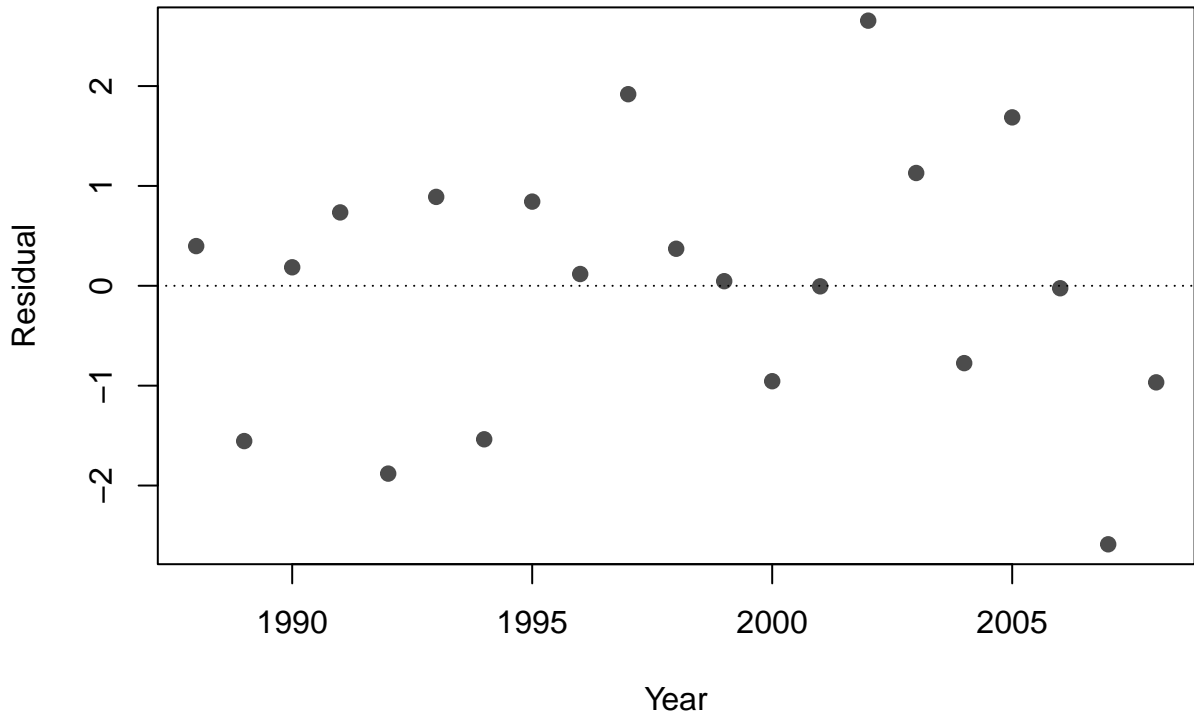


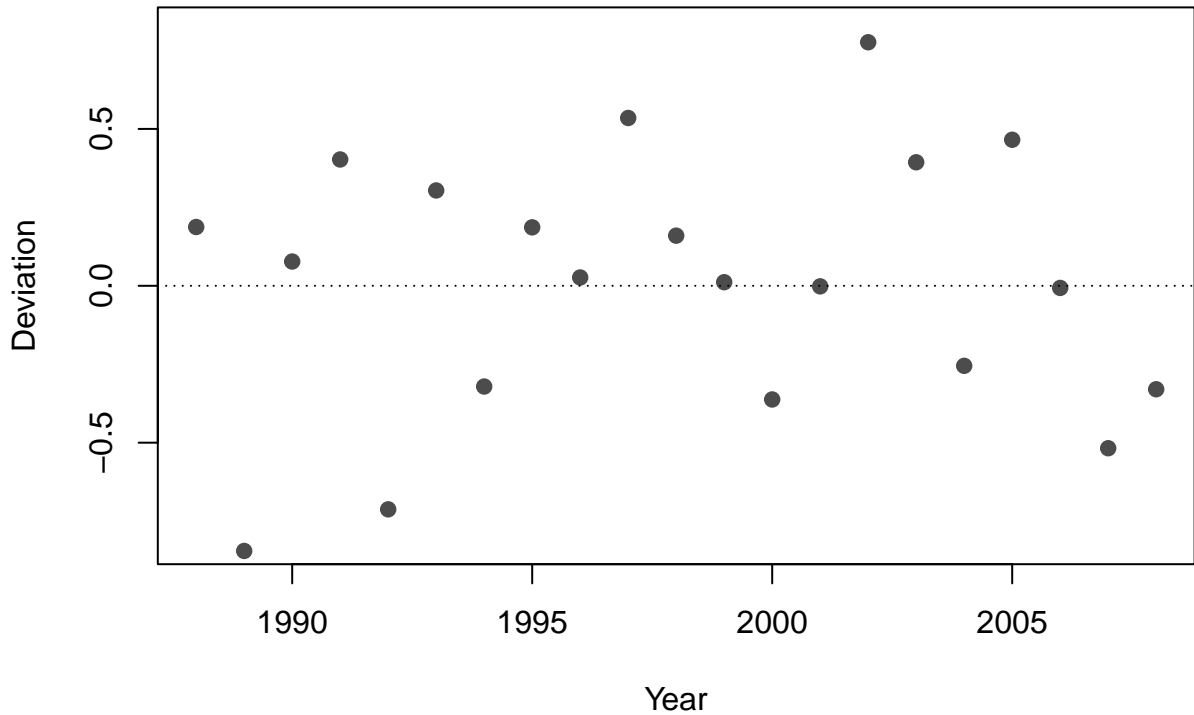




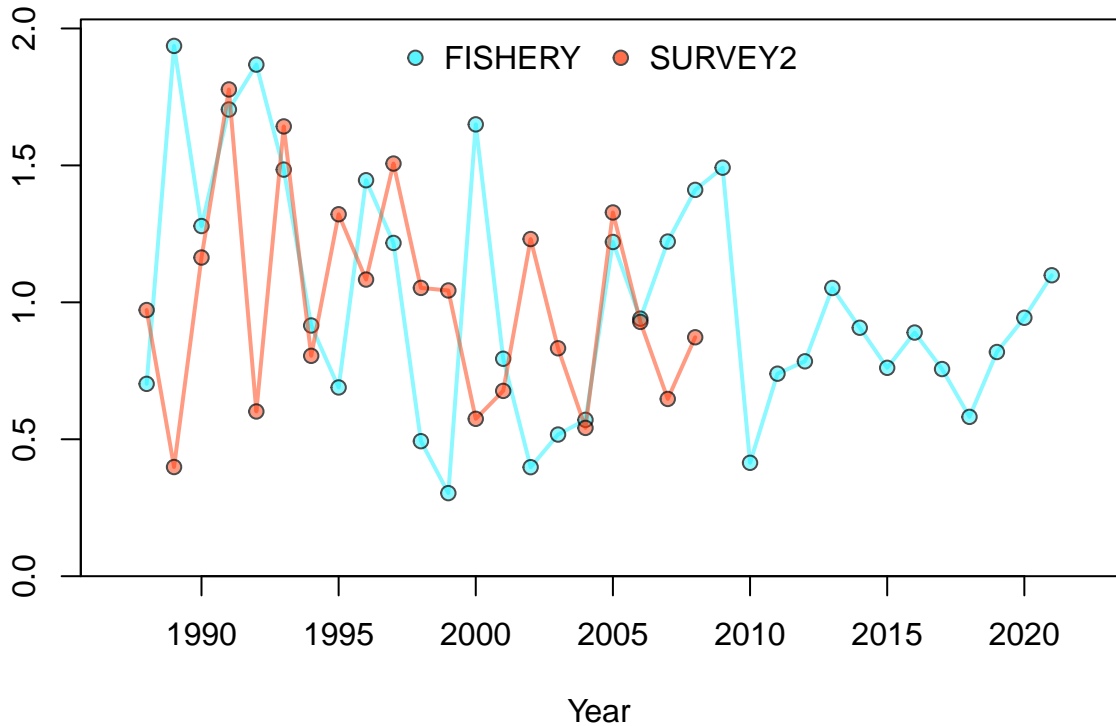


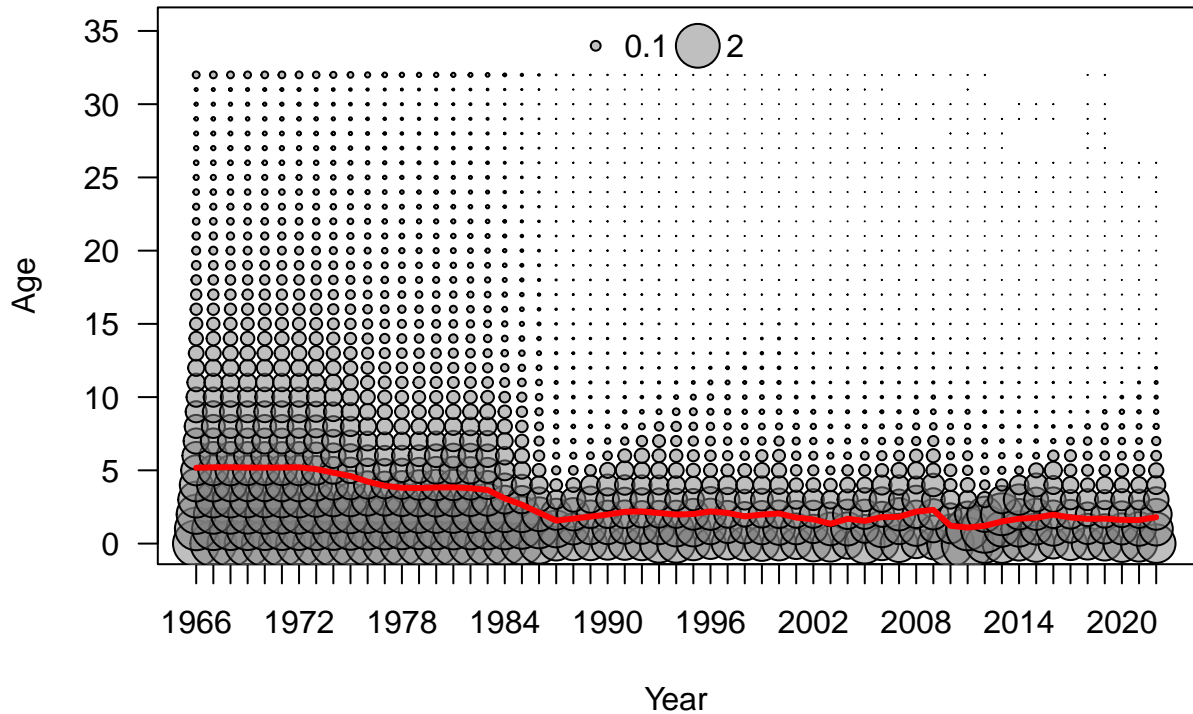


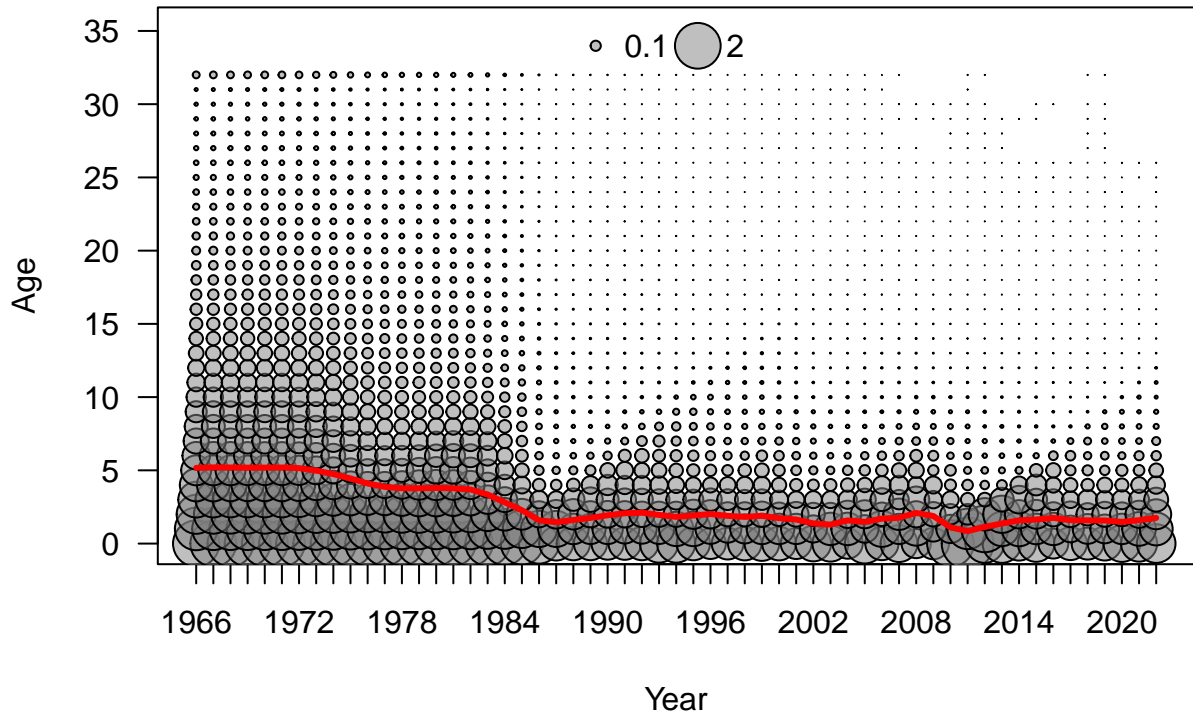


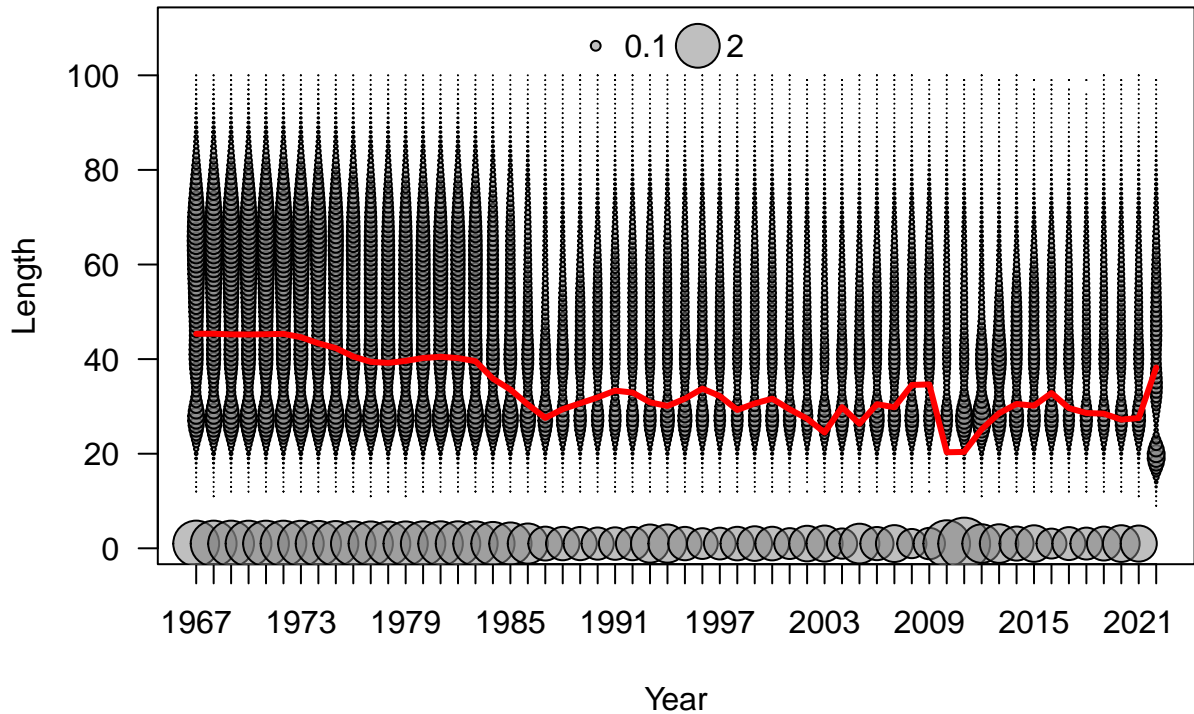


Standardized index

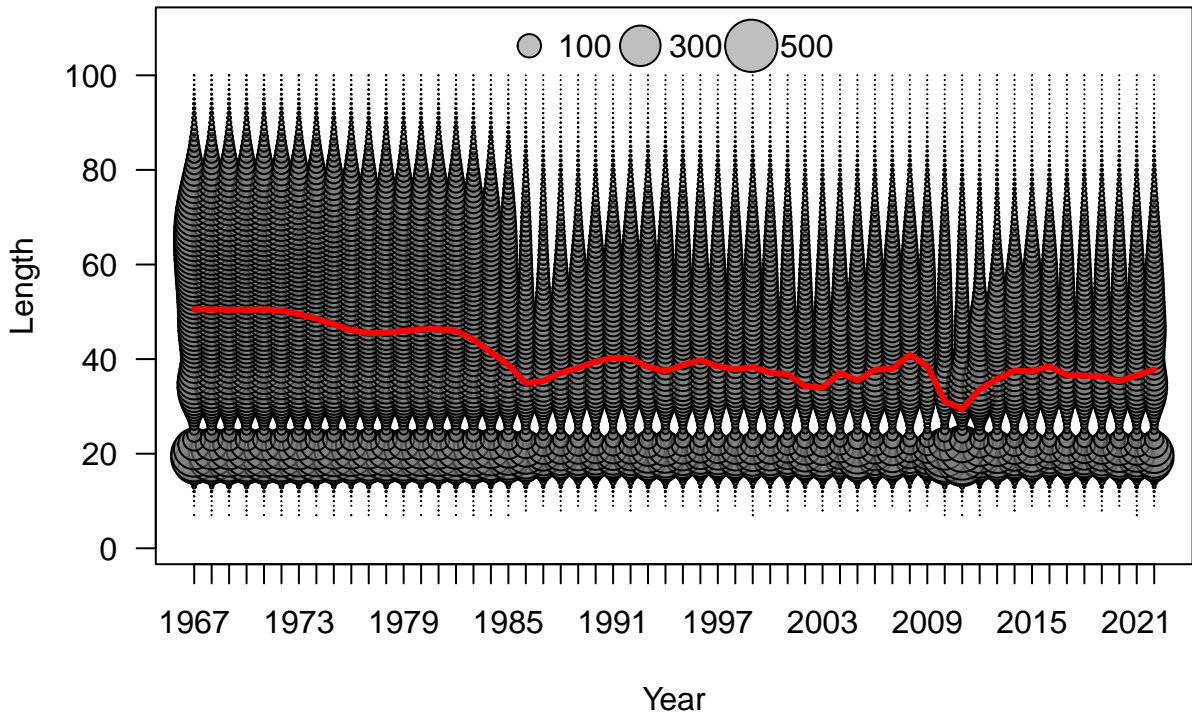


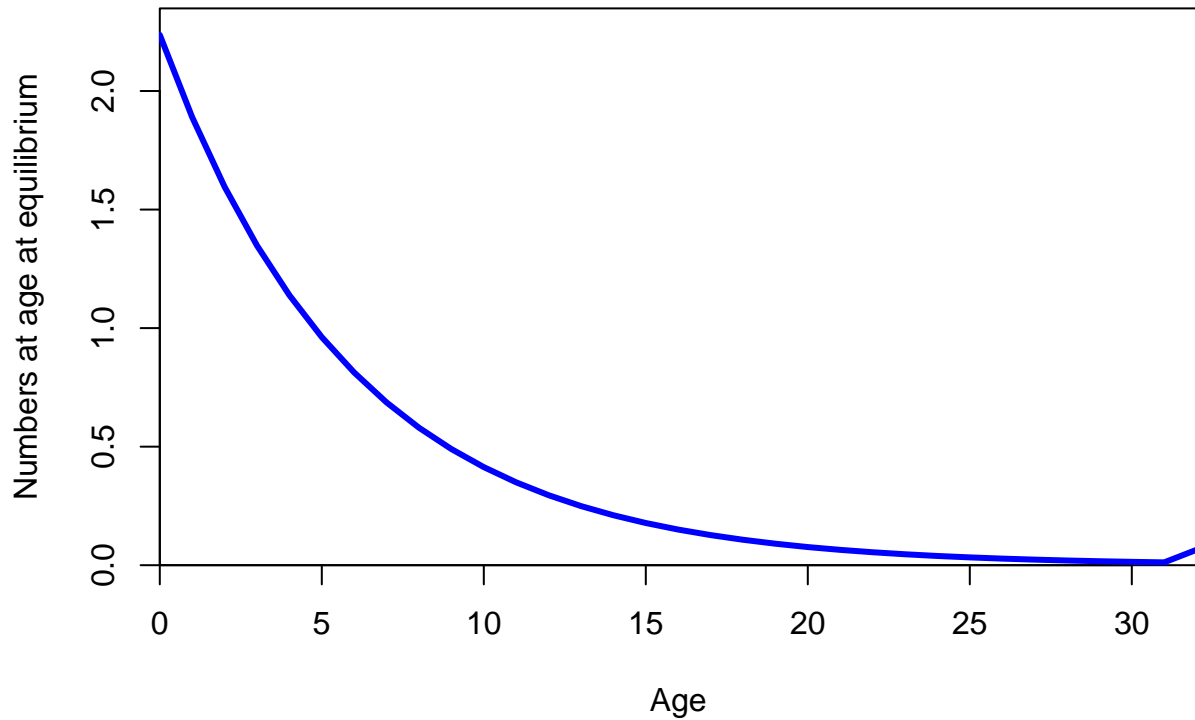


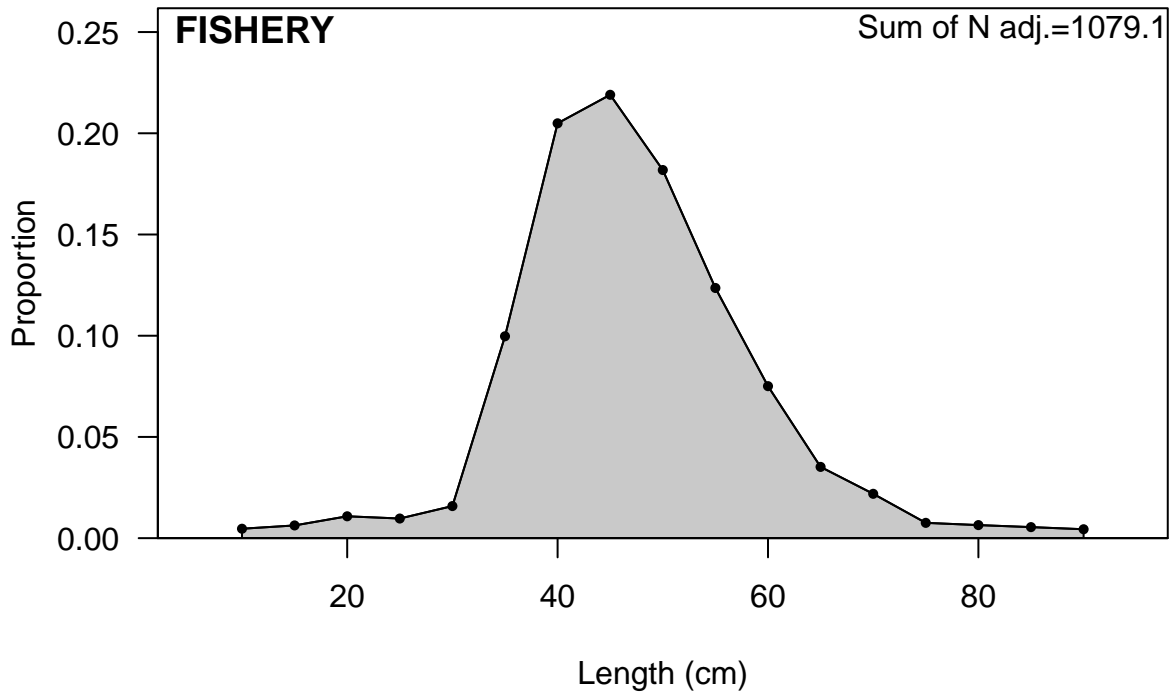










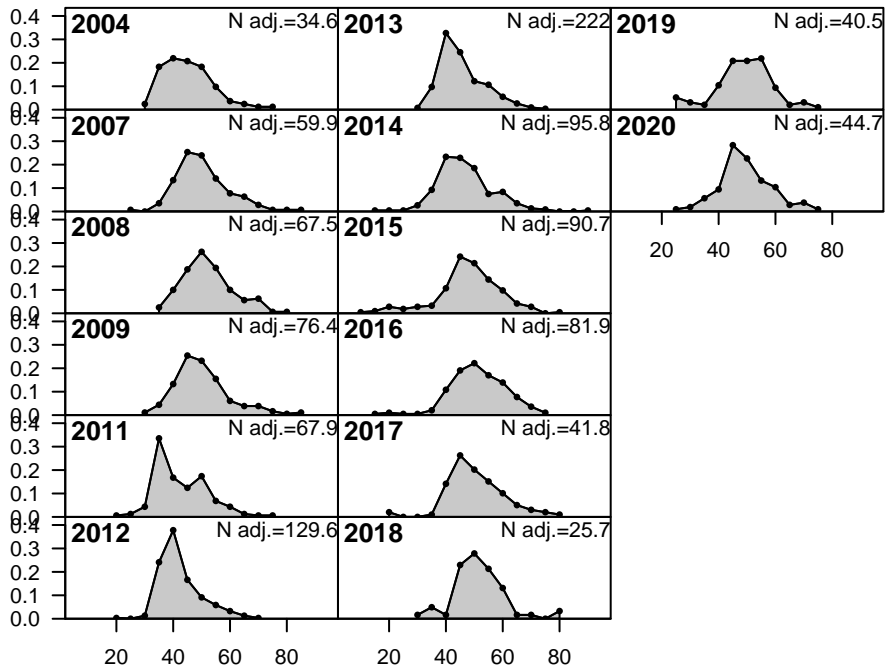


# FISHERY

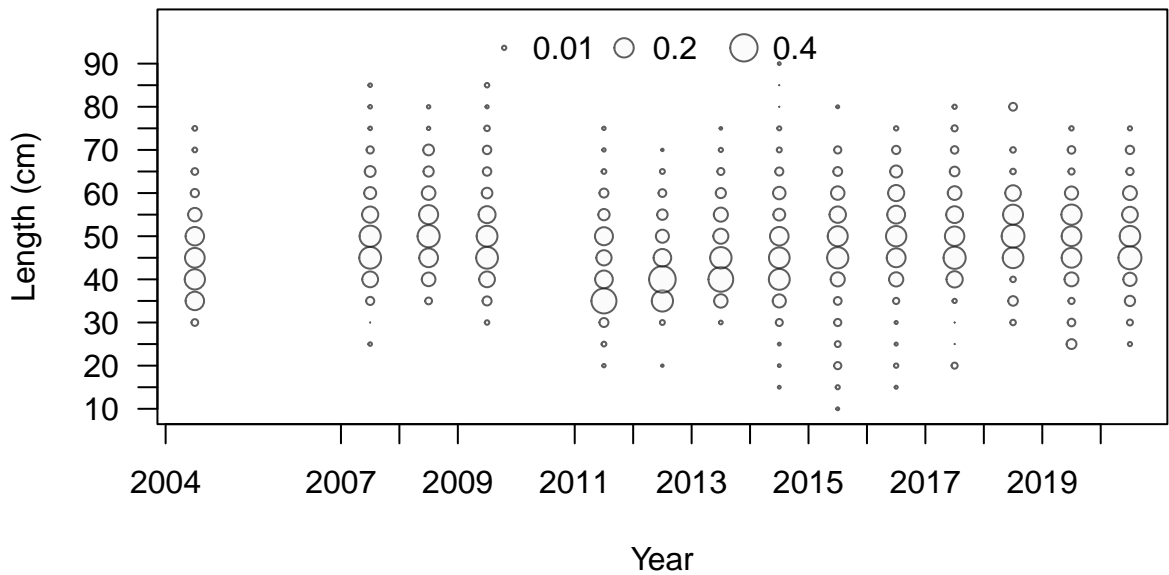
• 0.01 ○ 0.2 ○ 0.4



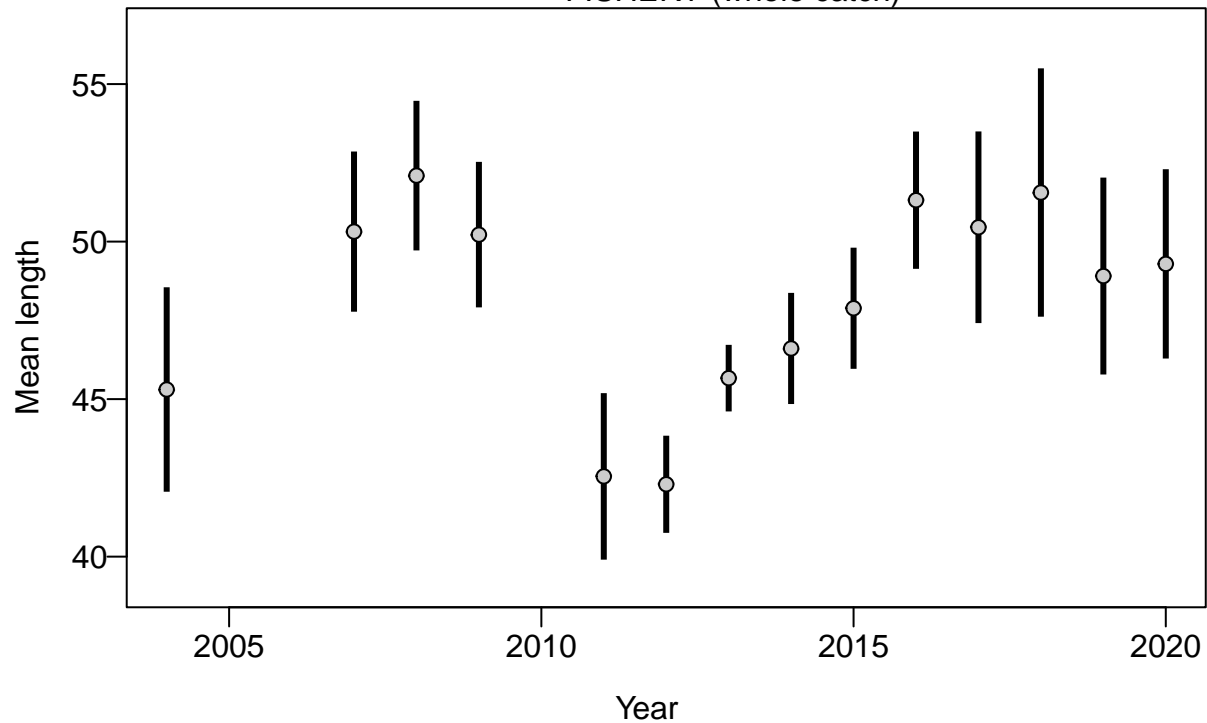
Proportion

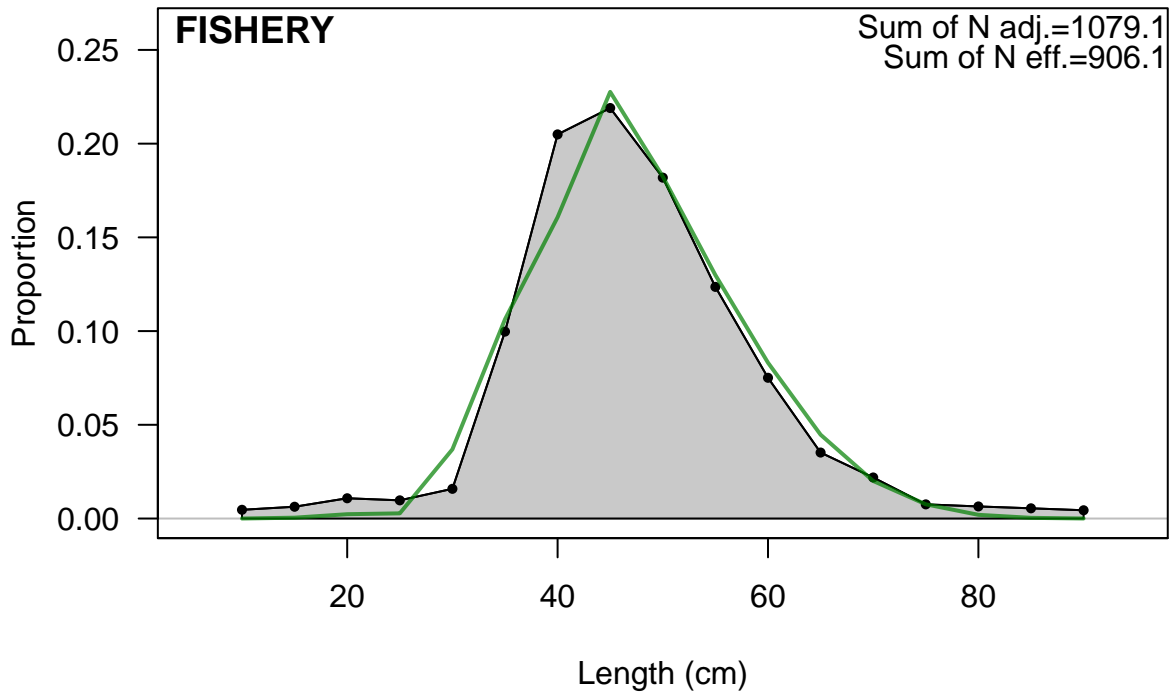


Length (cm)

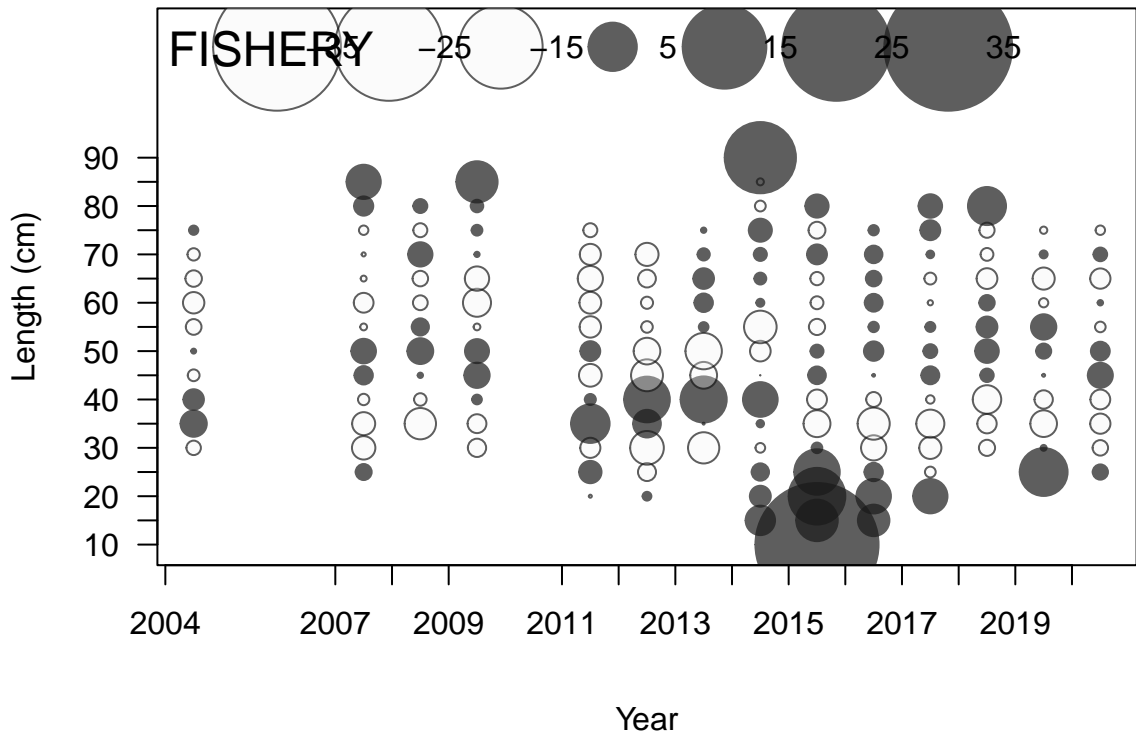


## FISHERY (whole catch)

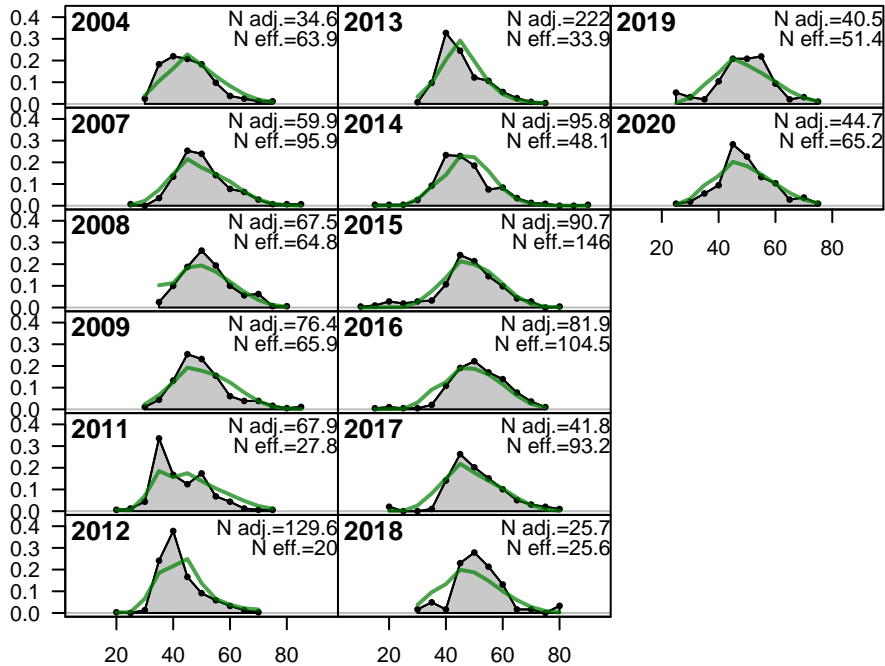




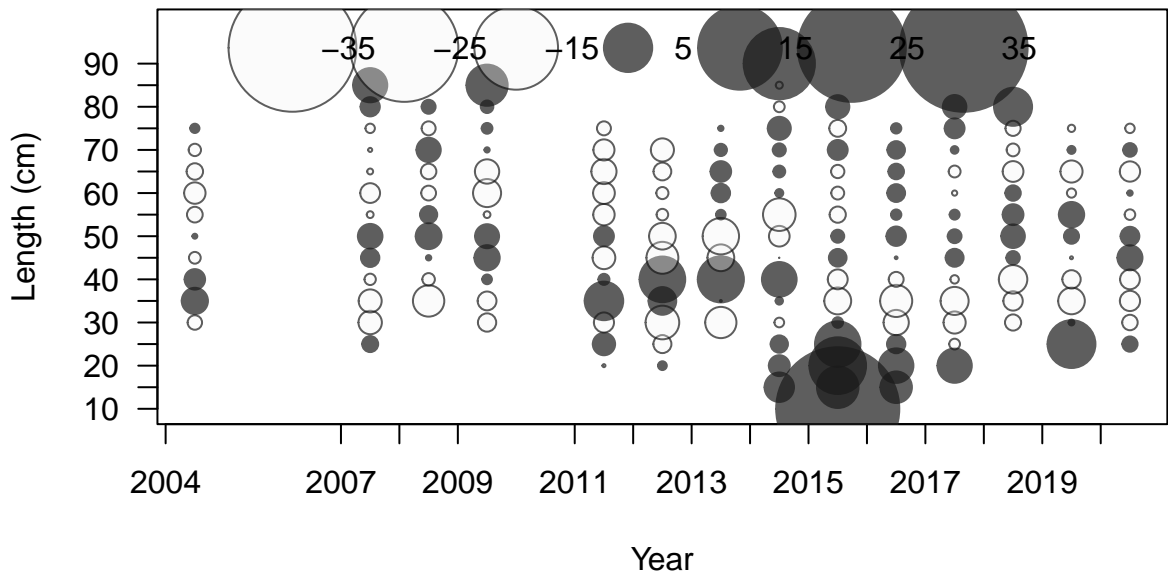




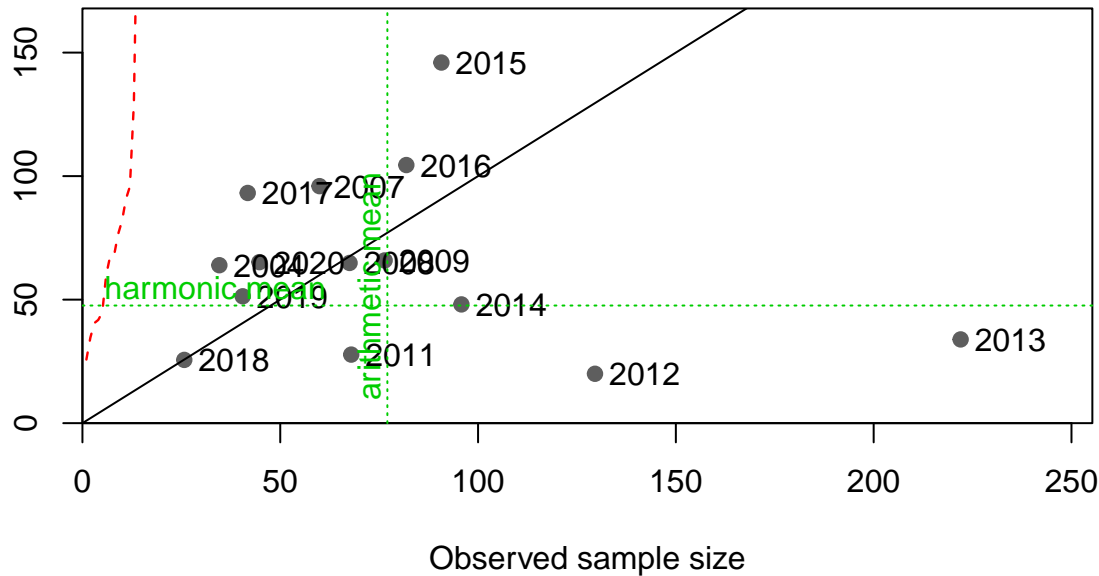
Proportion



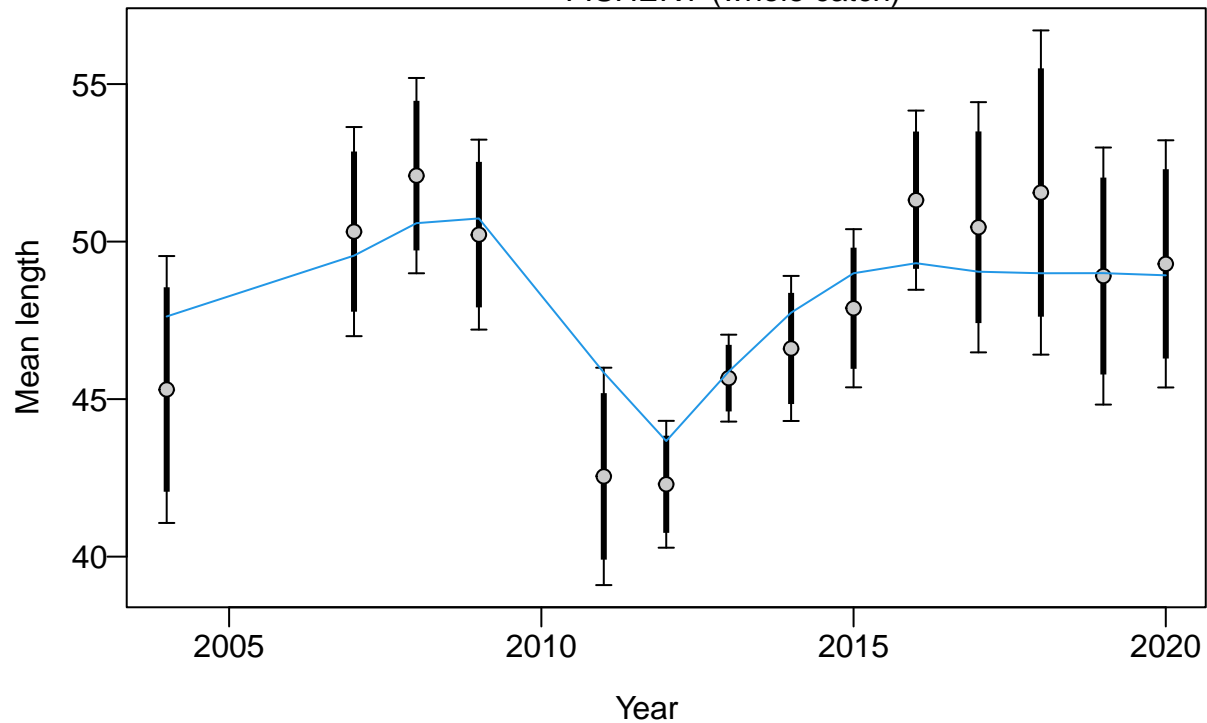
Length (cm)

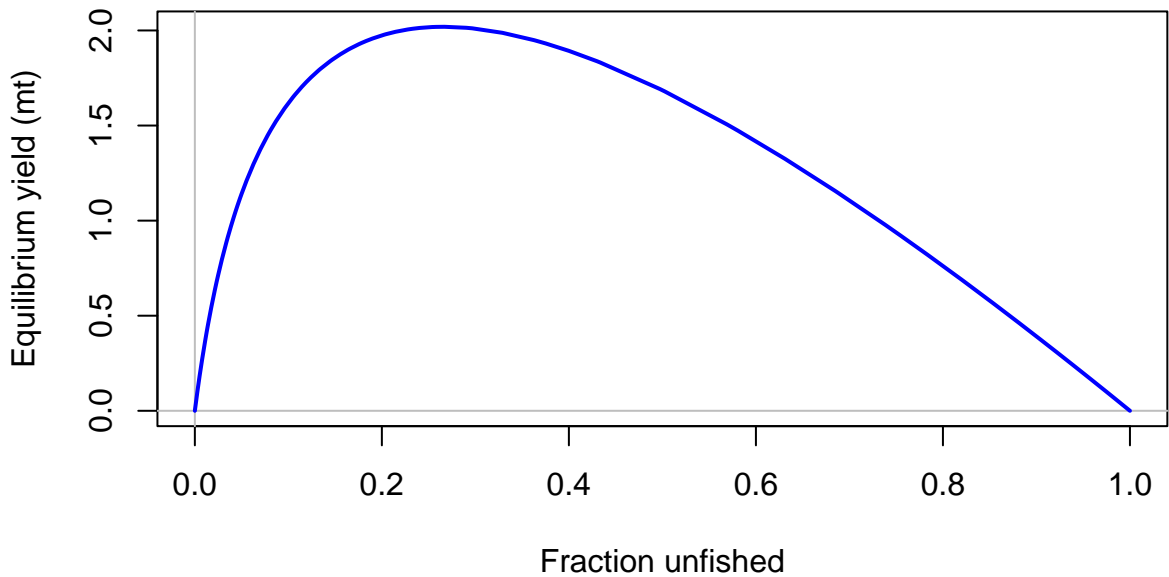


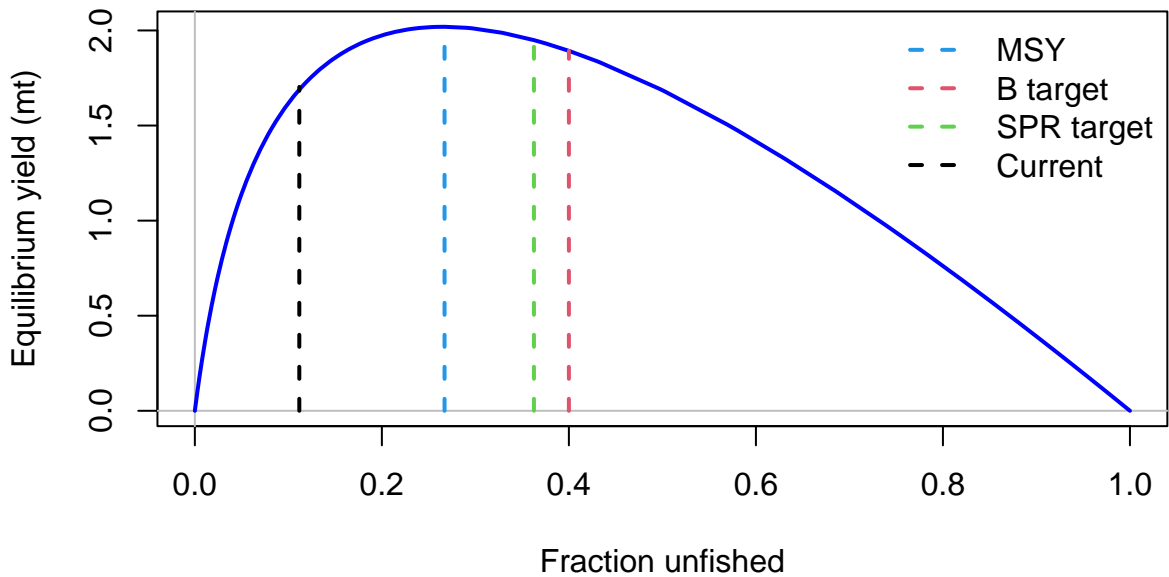
Effective sample size

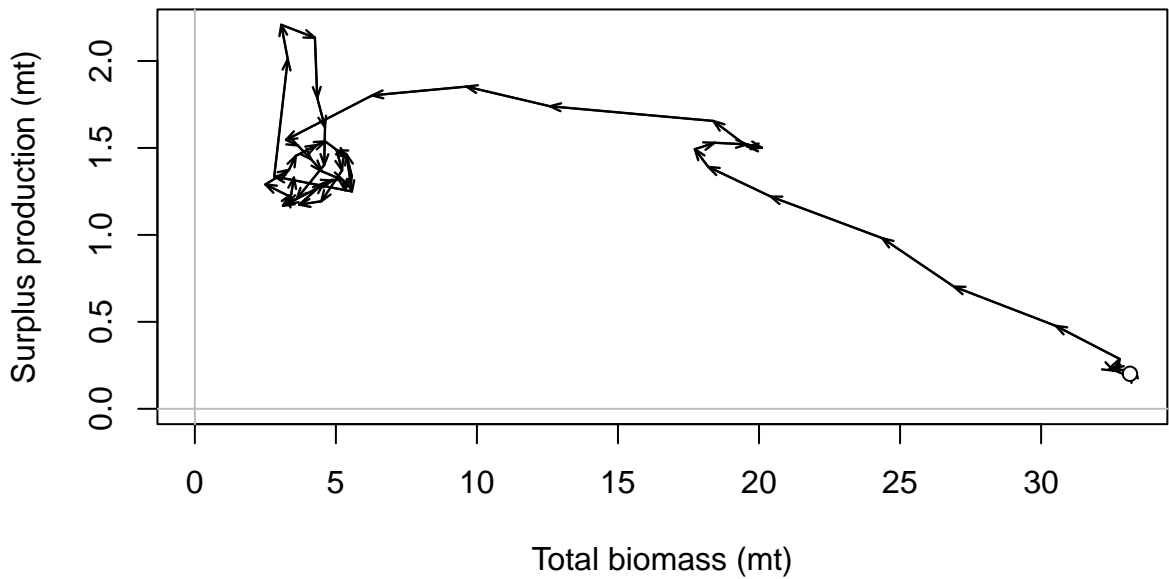


## FISHERY (whole catch)

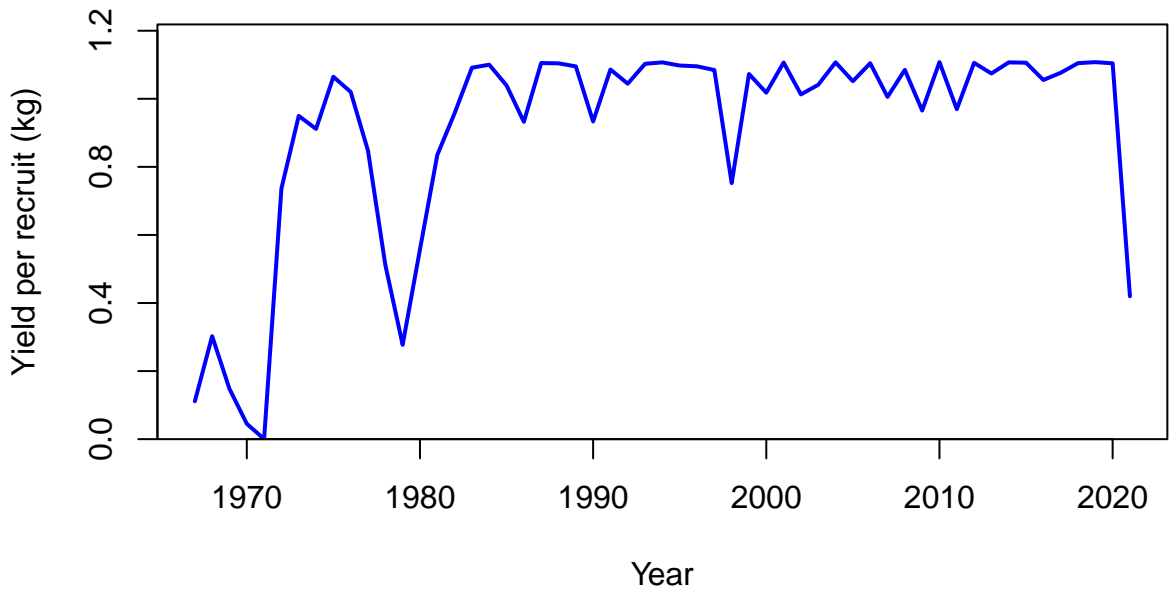


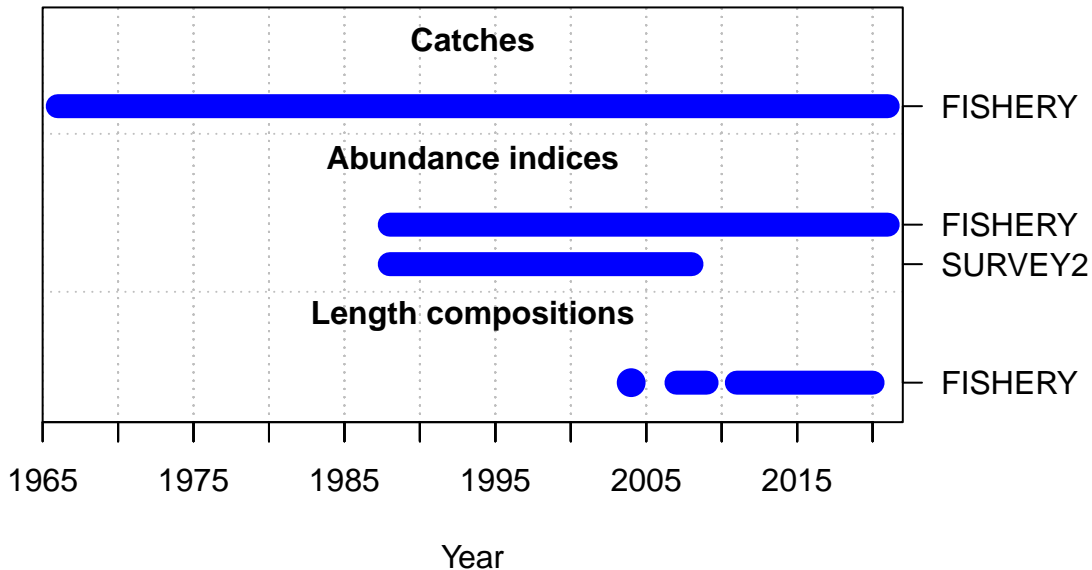


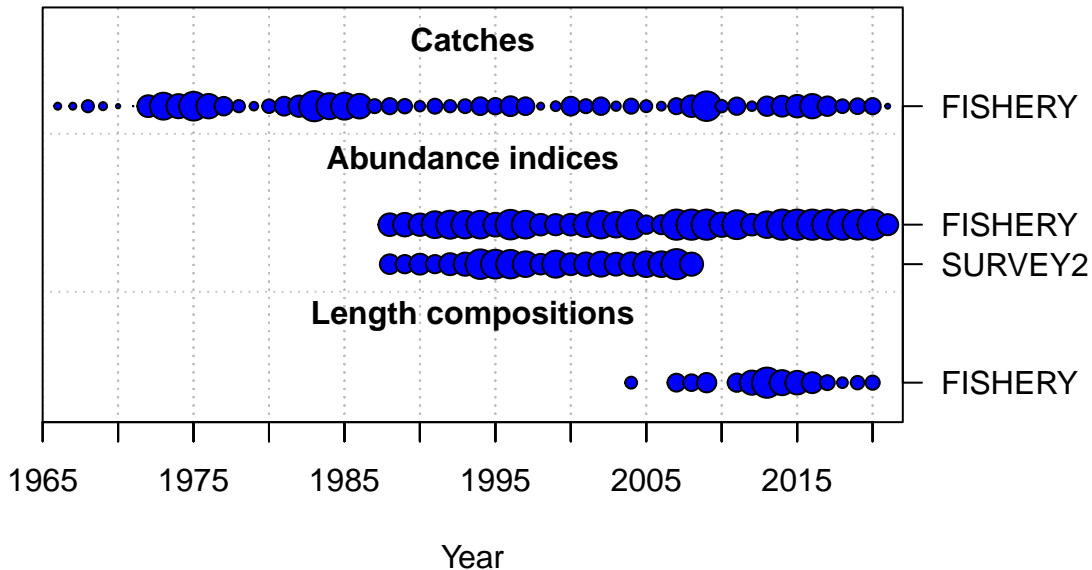




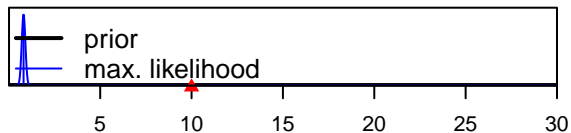




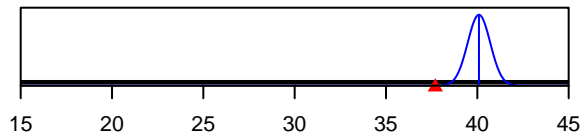




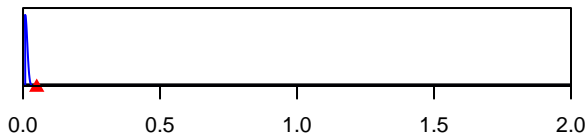
SR\_LN(R0)



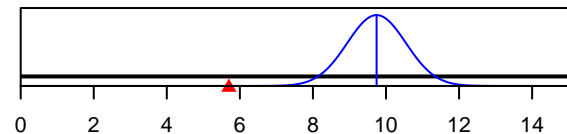
Size\_inflection\_FISHERY(1)



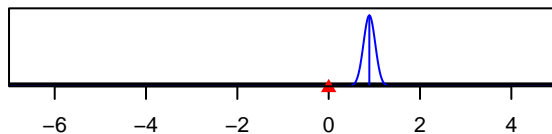
InitF\_seas\_1\_flt\_1FISHERY



Size\_95%width\_FISHERY(1)



LnQ\_base\_FISHERY(1)



LnQ\_base\_SURVEY2(2)

