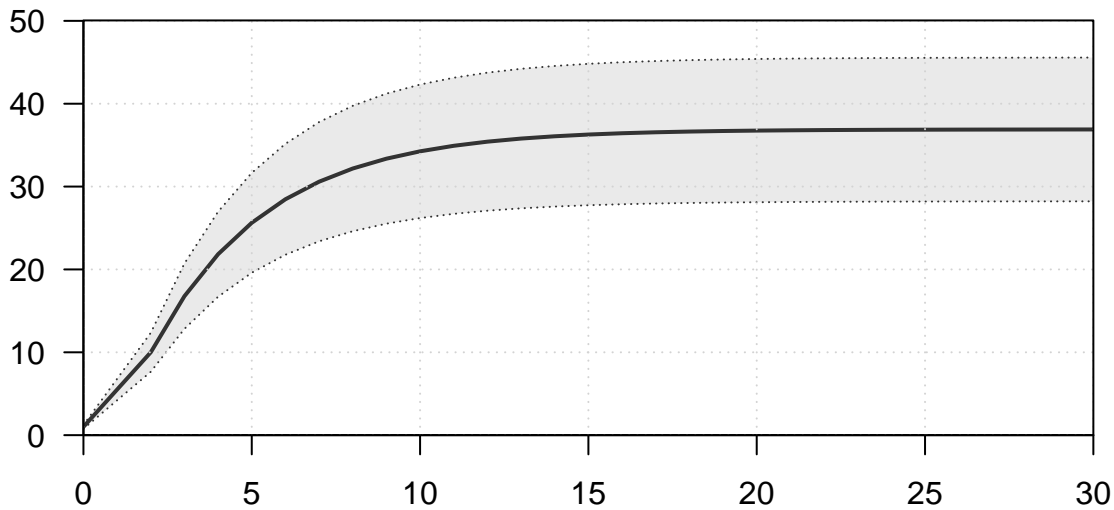
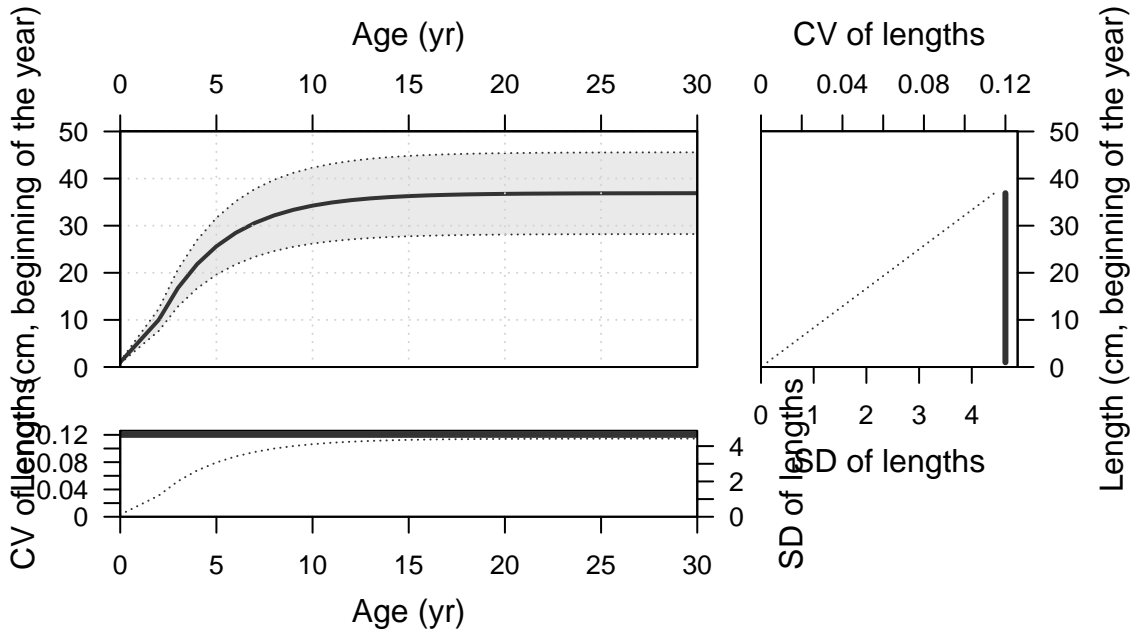


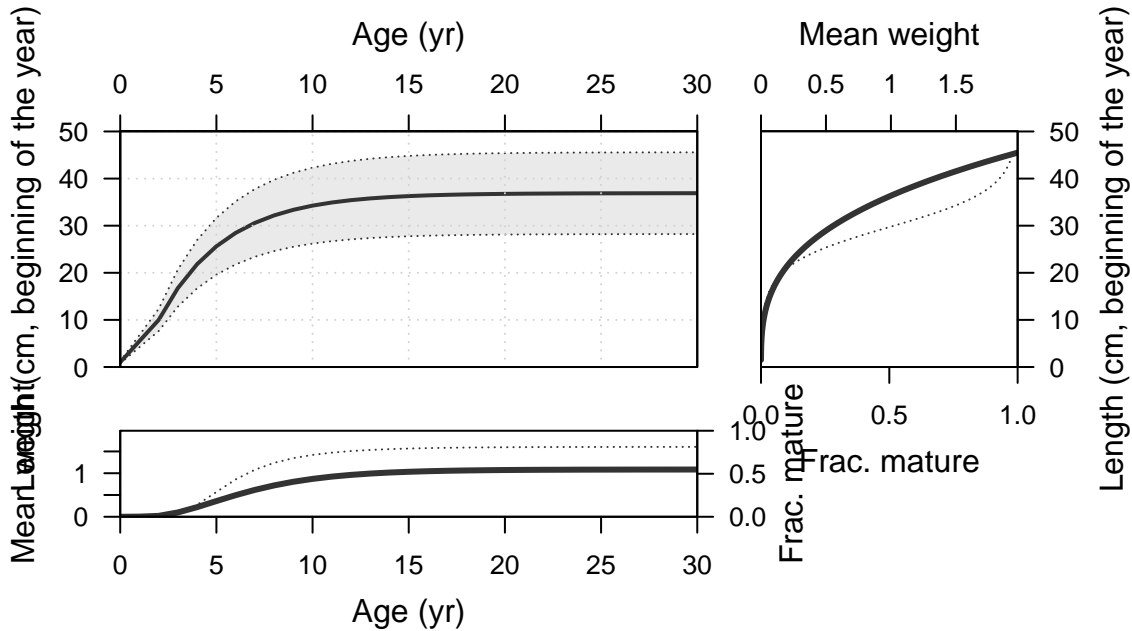
Plots created using the 'r4ss' package in R  
Stock Synthesis version: 3.30.19.0  
StartTime: Wed Jul 13 15:42:02 2022  
Data\_File: data.ss  
Control\_File: control.ss

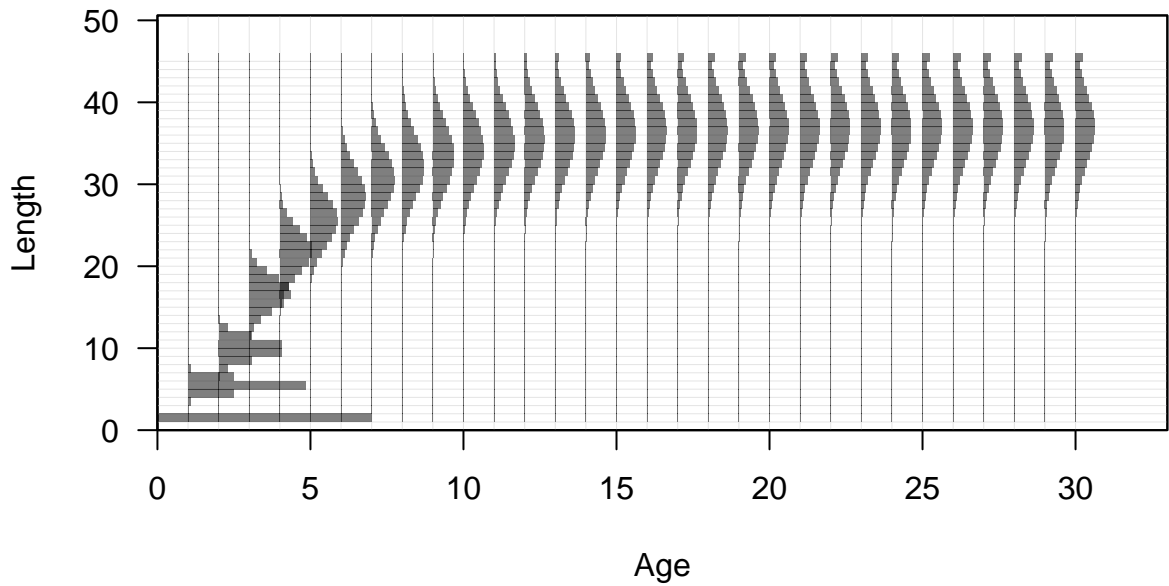
Length (cm, beginning of the year)

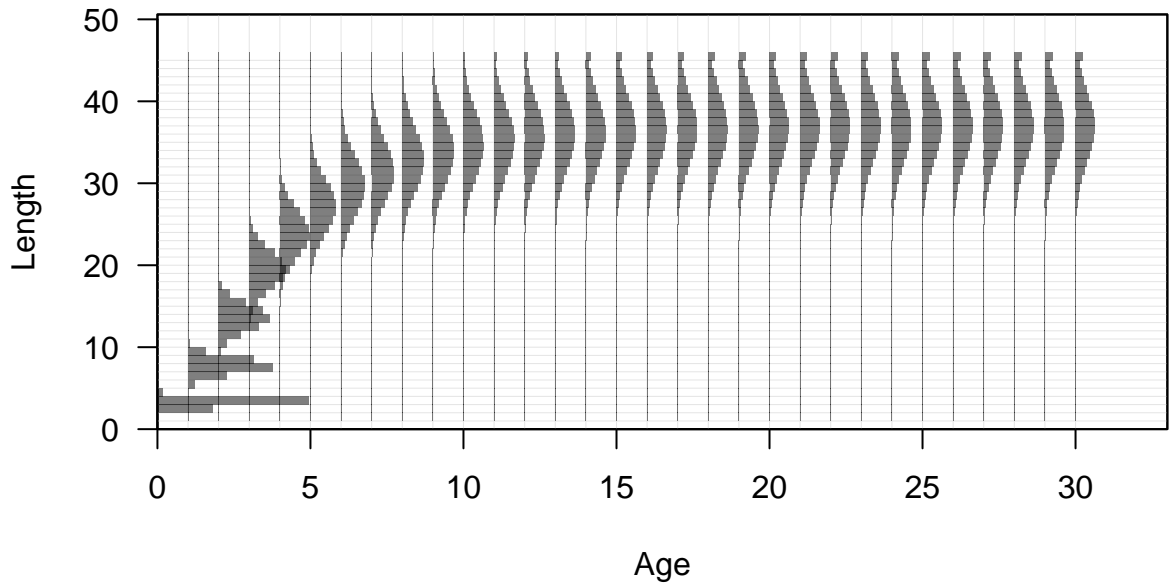


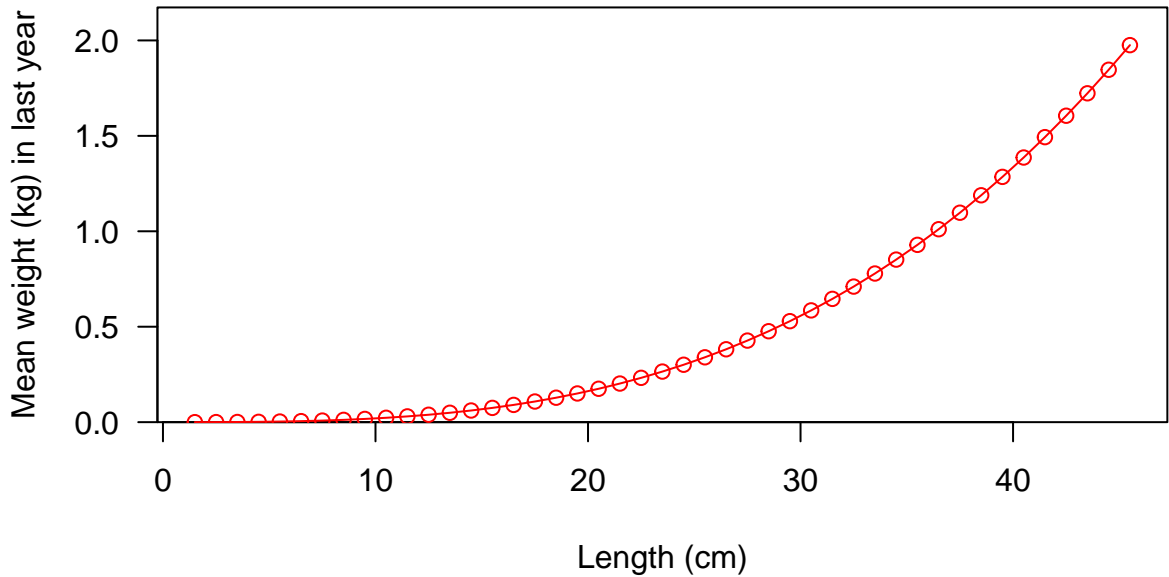
Age (yr)

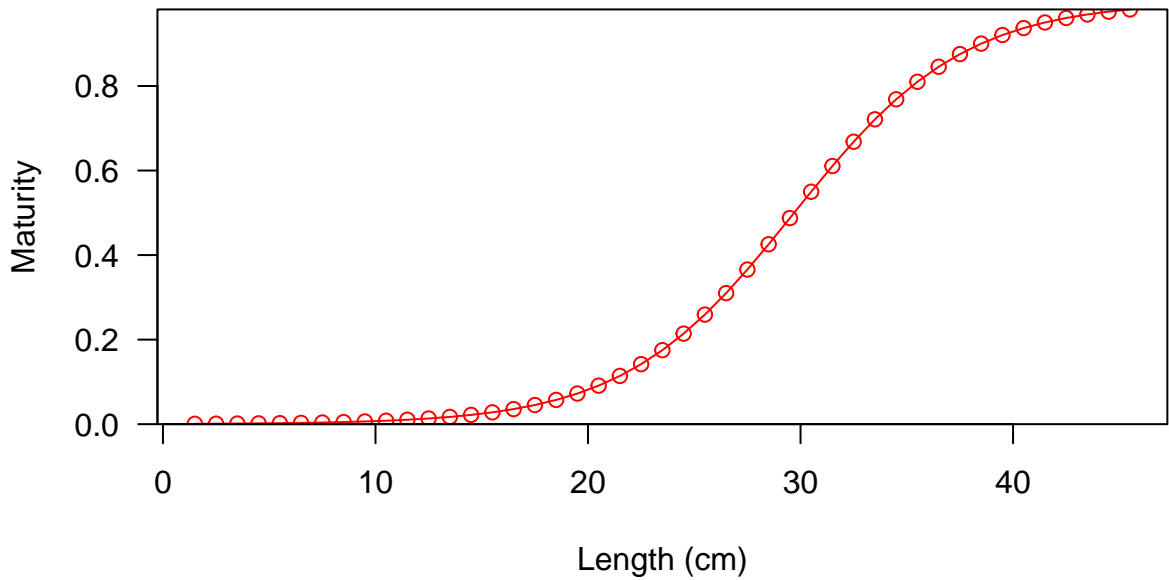




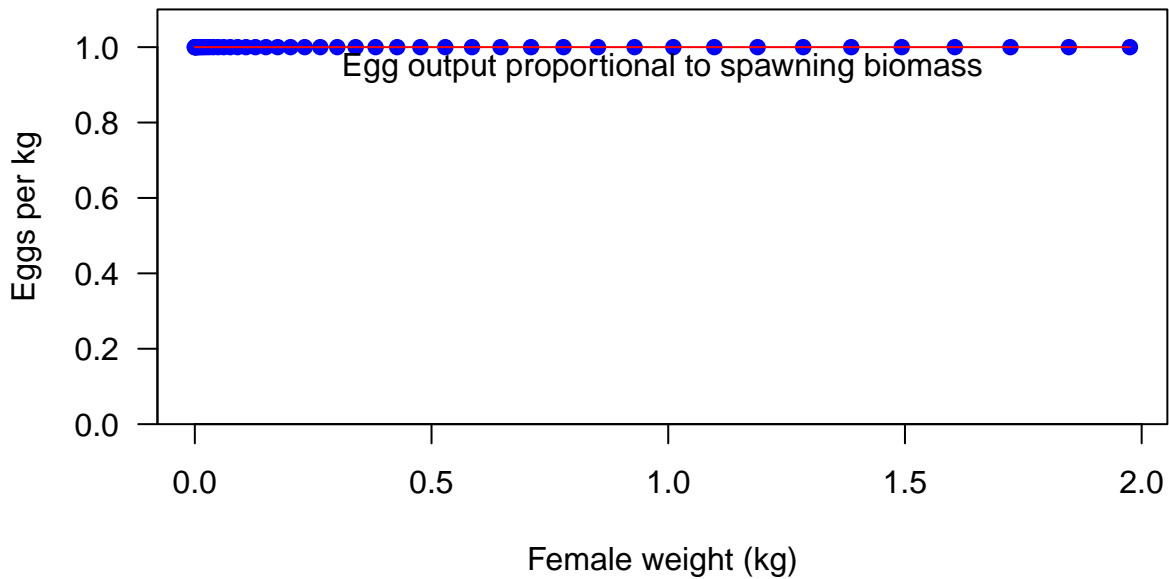


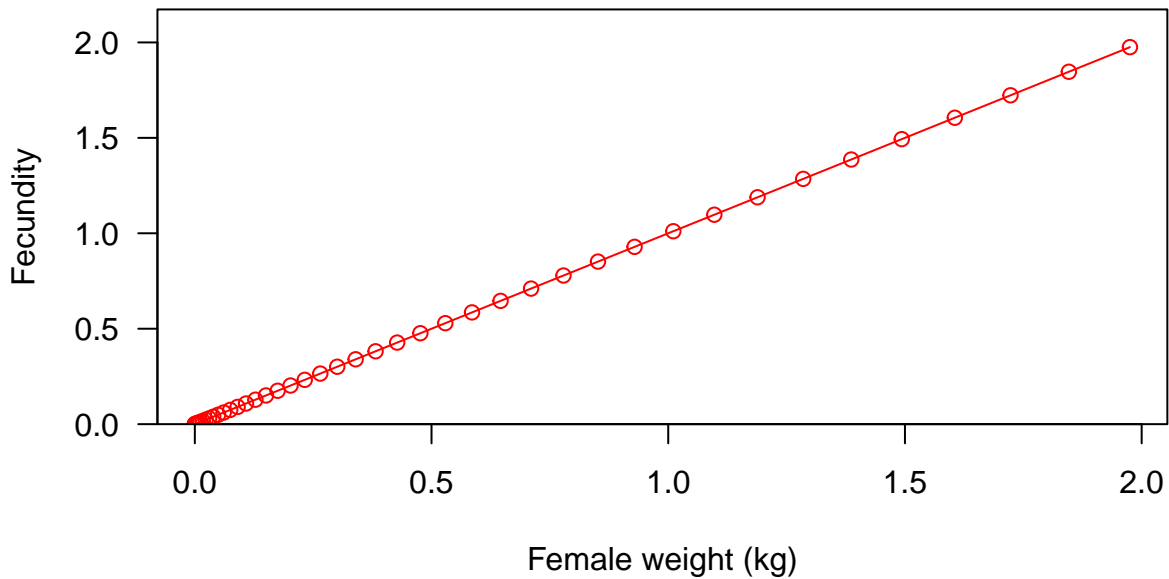


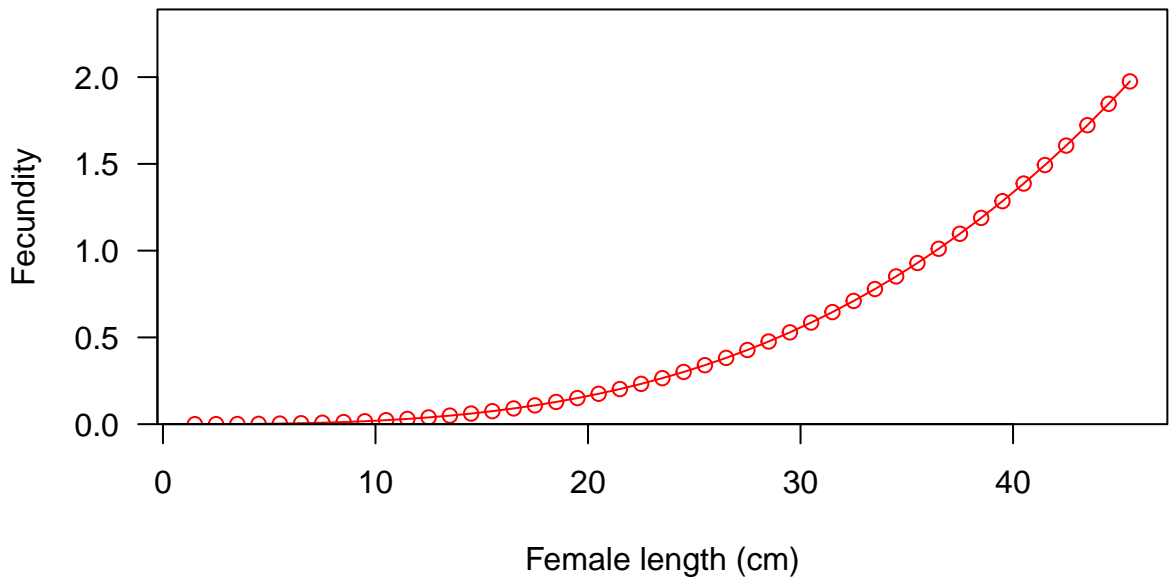


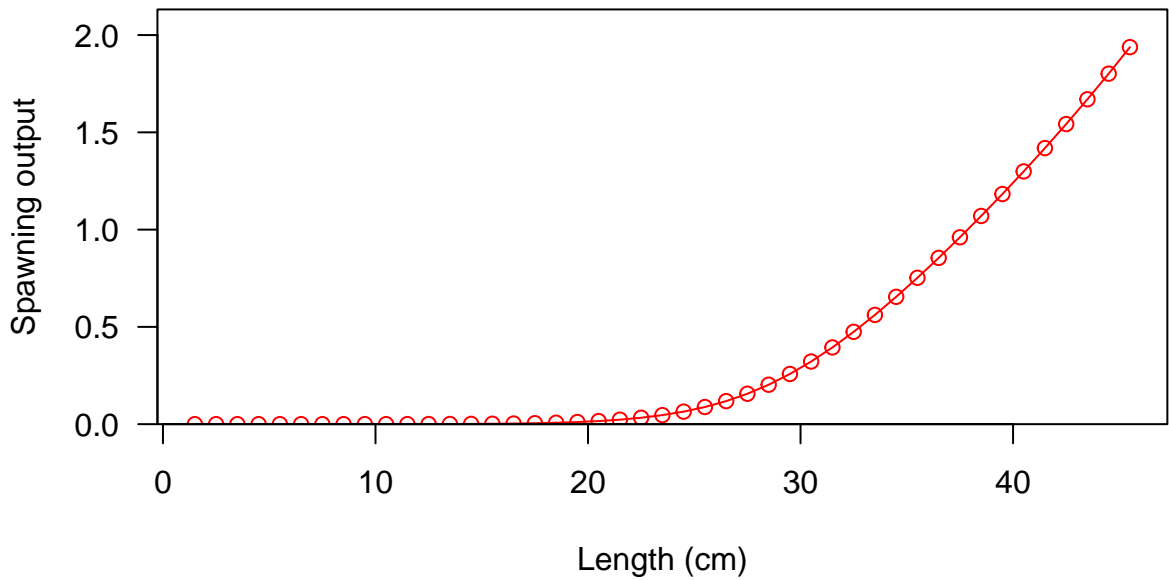


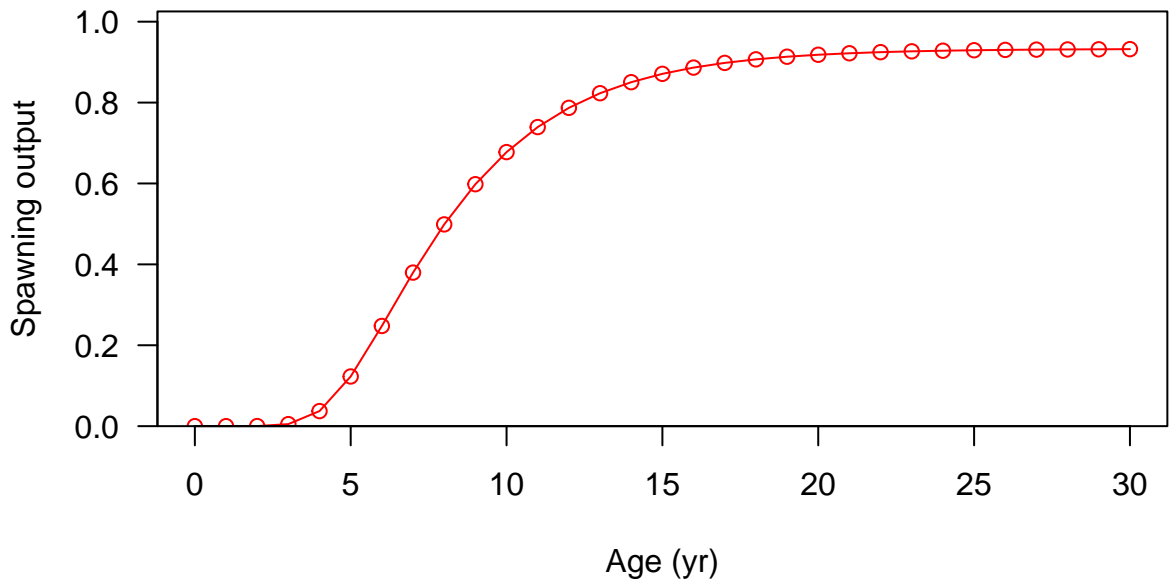




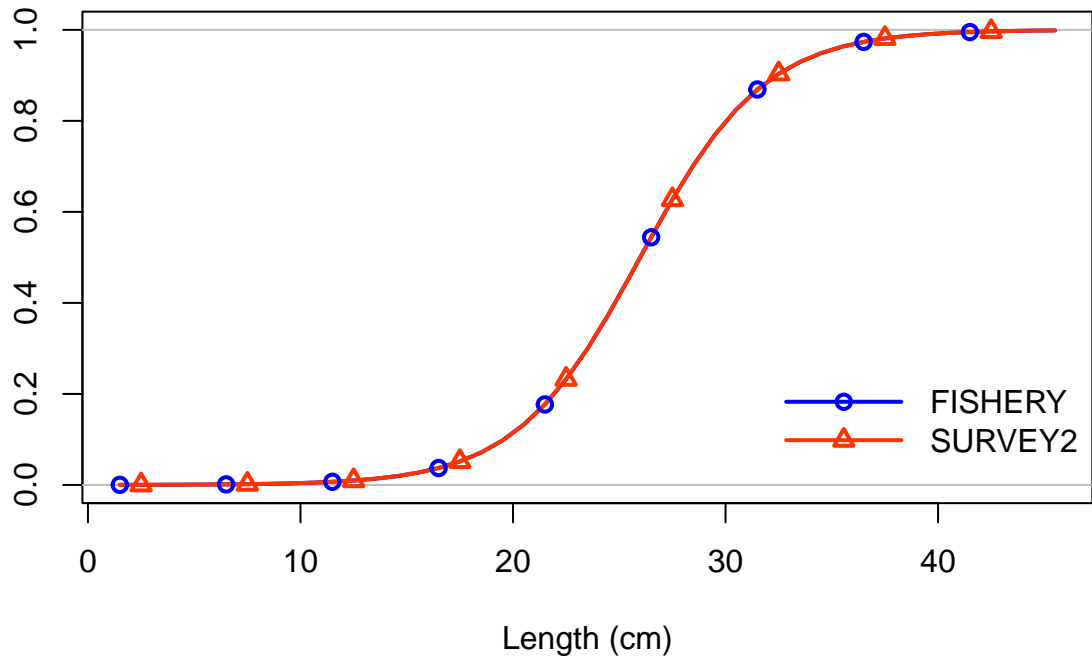




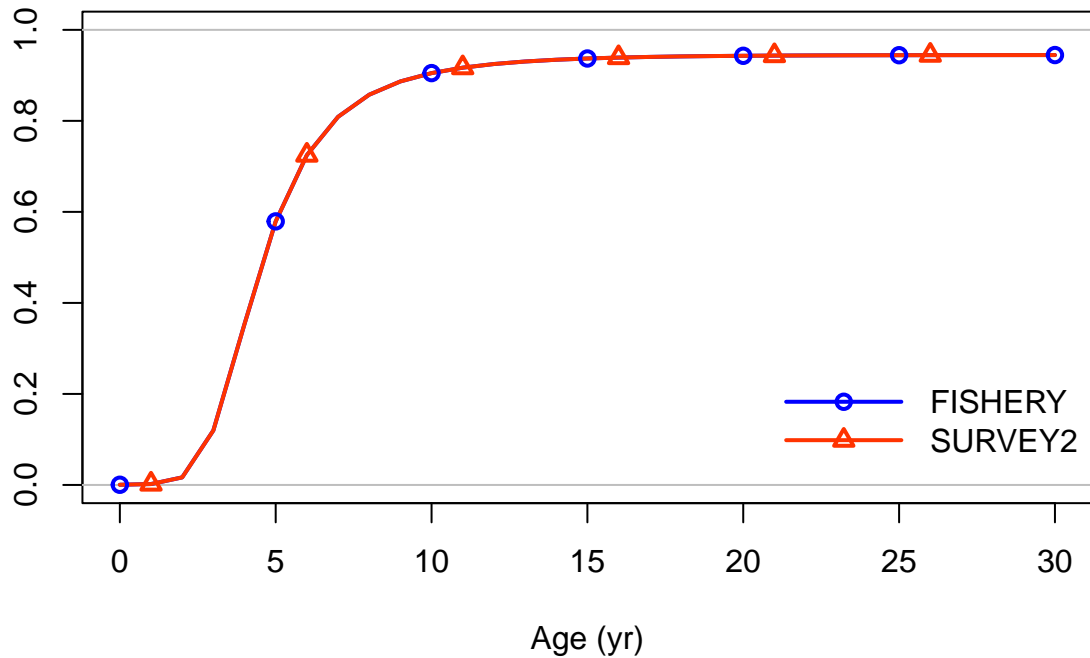




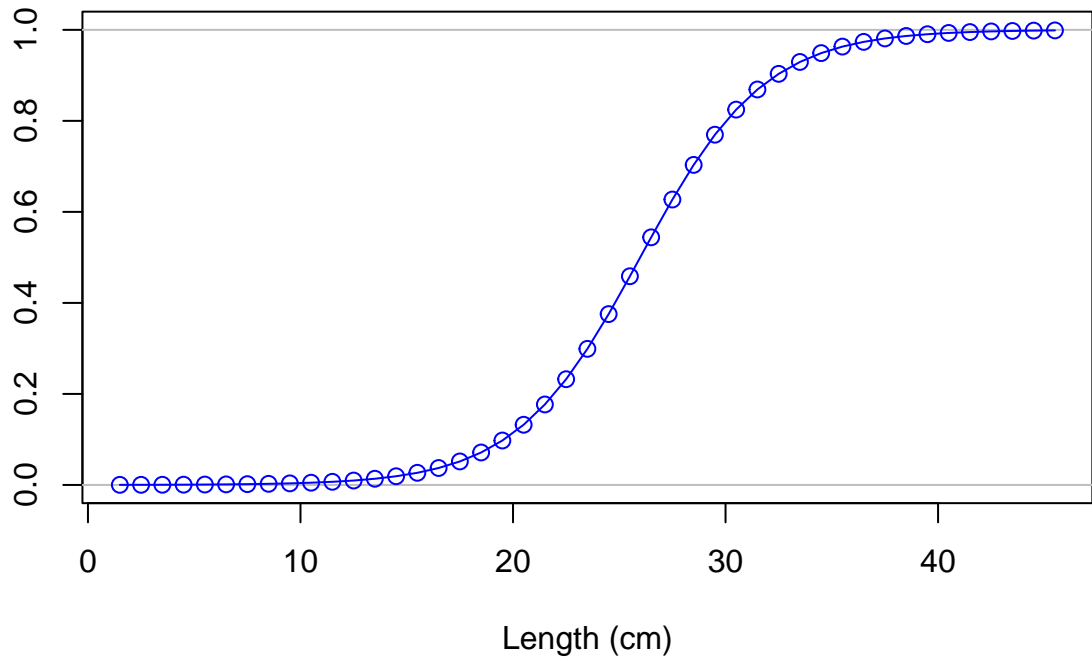
Selectivity



Selectivity

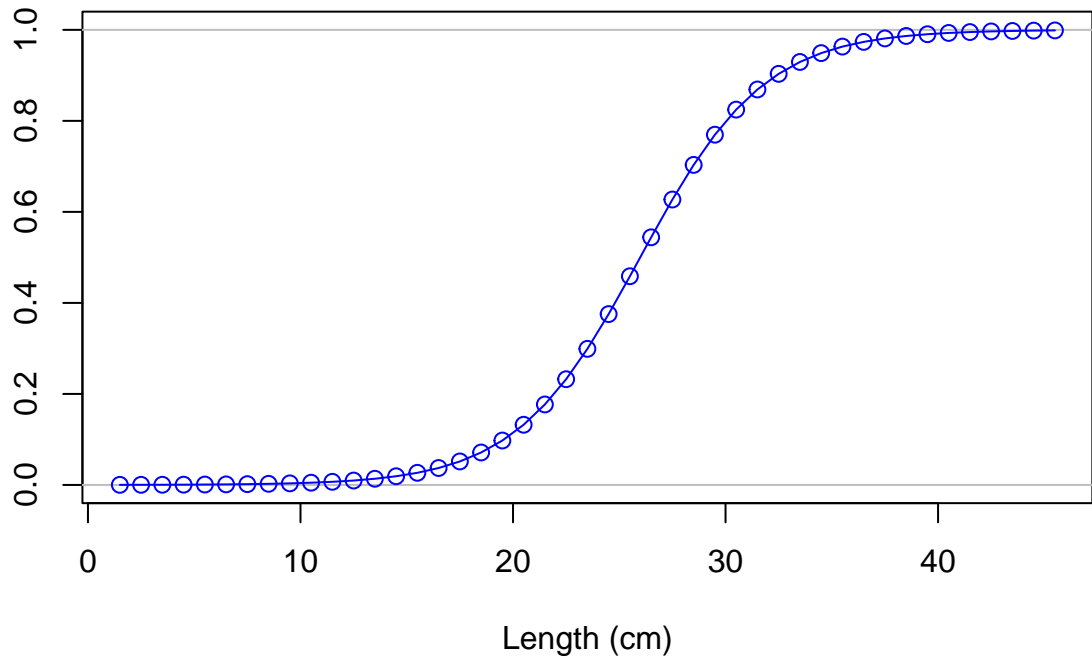


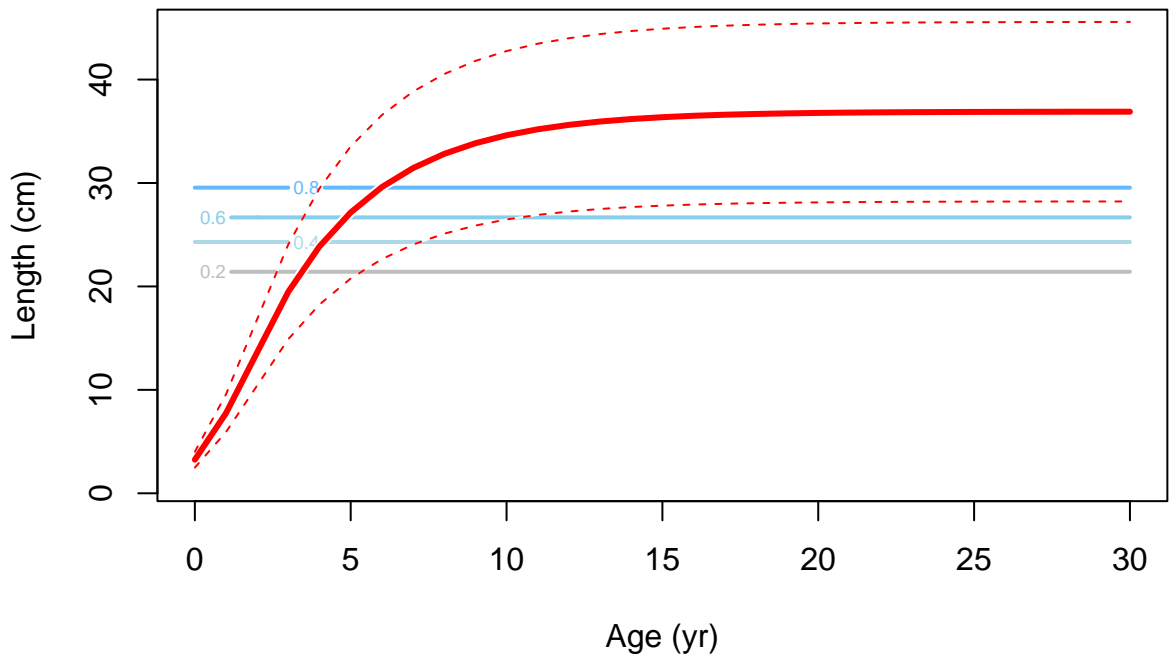
Selectivity

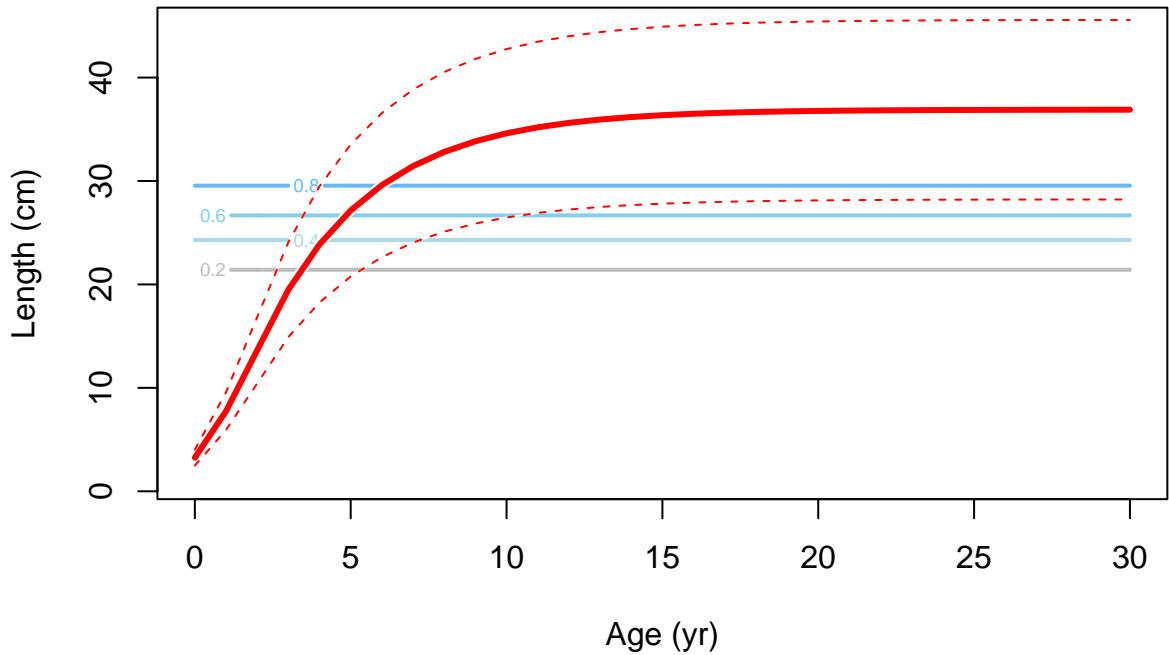


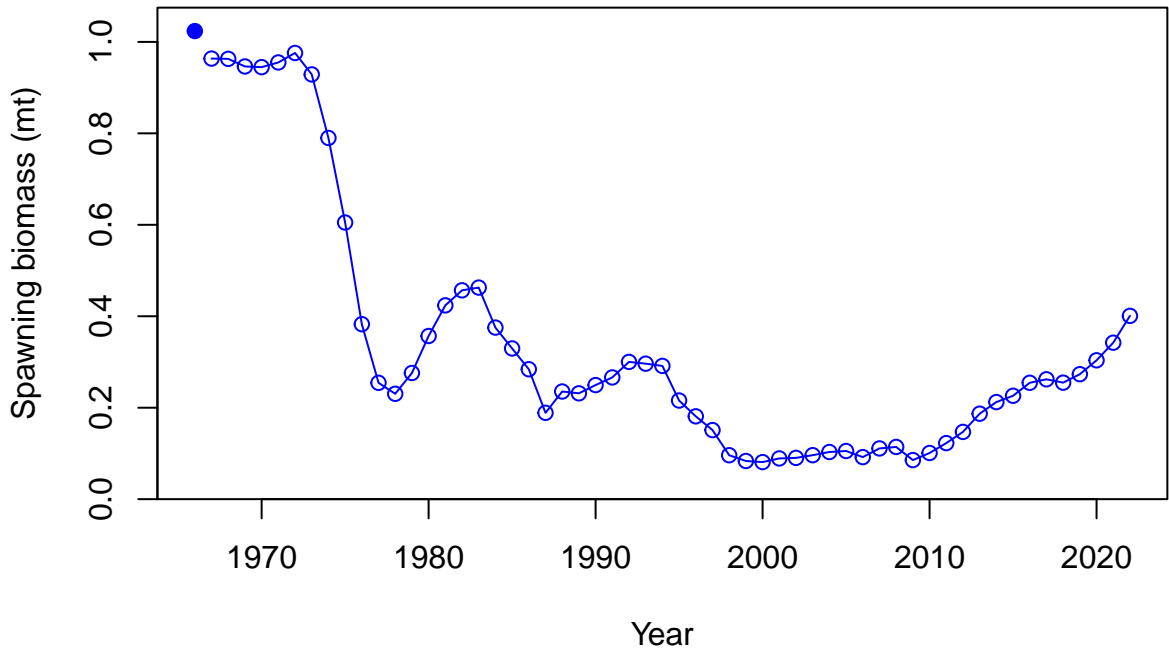


Selectivity

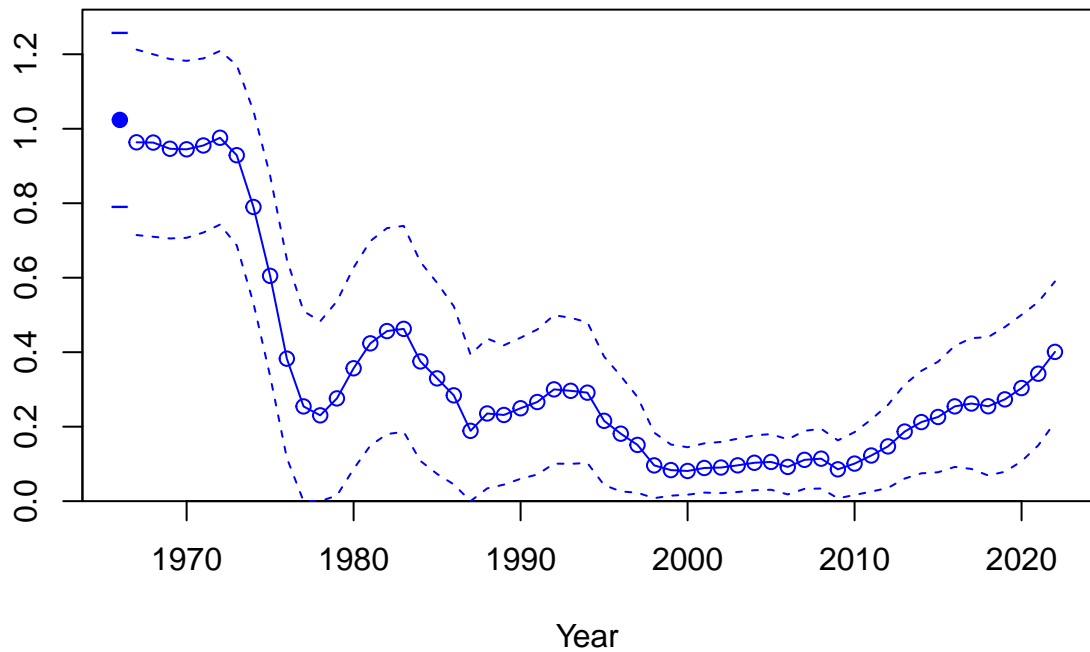




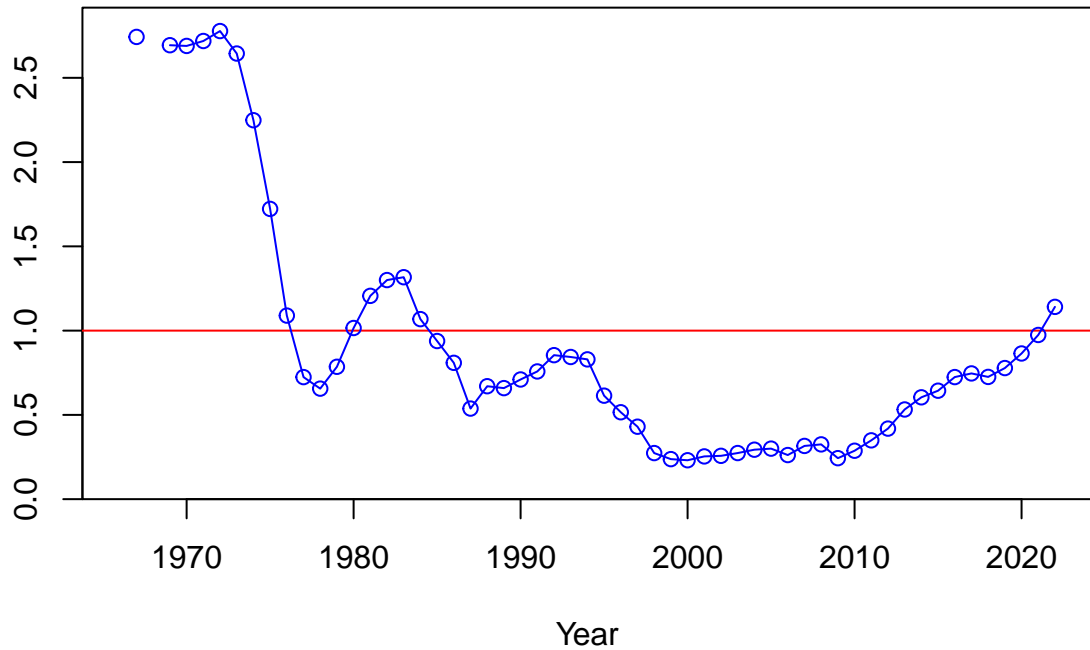




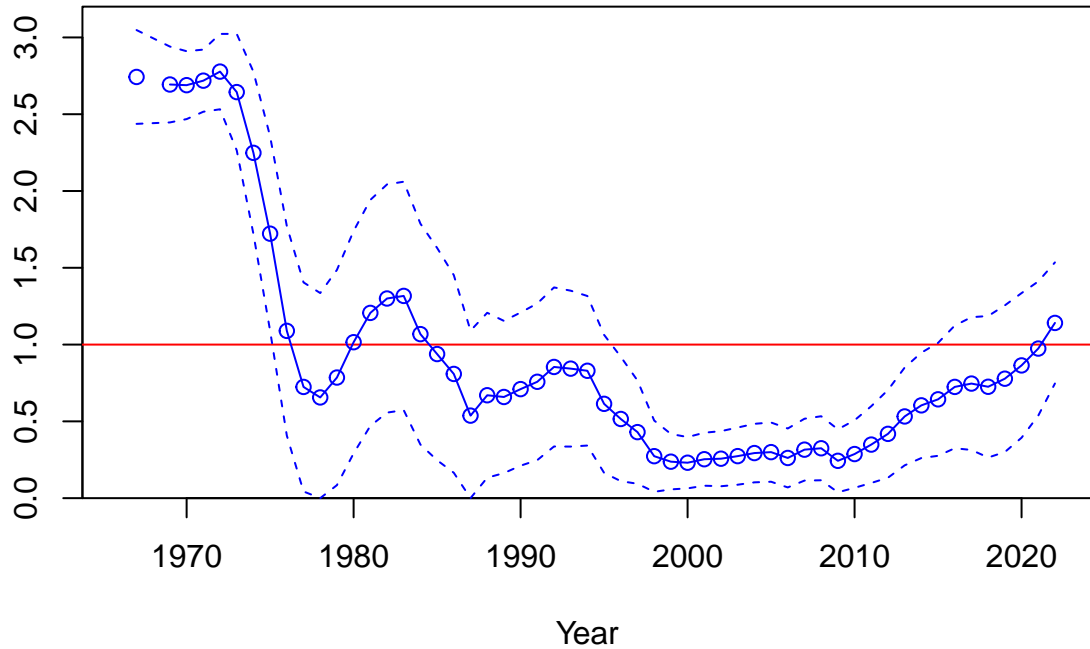
Spawning biomass (mt)

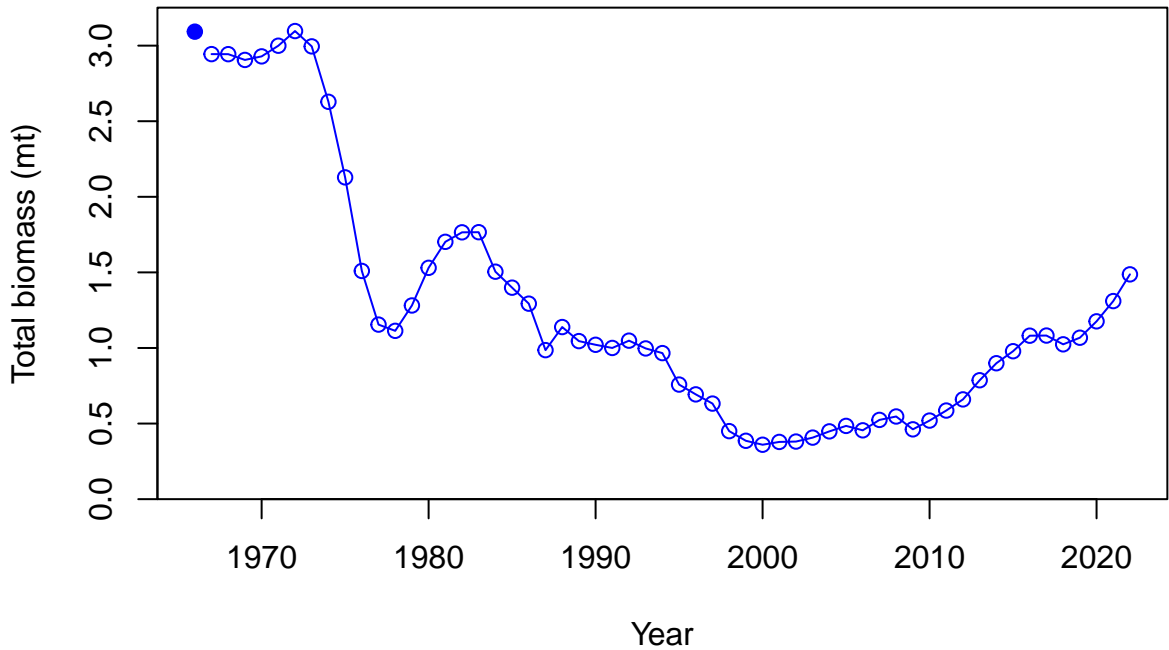


Relative spawning biomass:  $B/B_{MSY}$

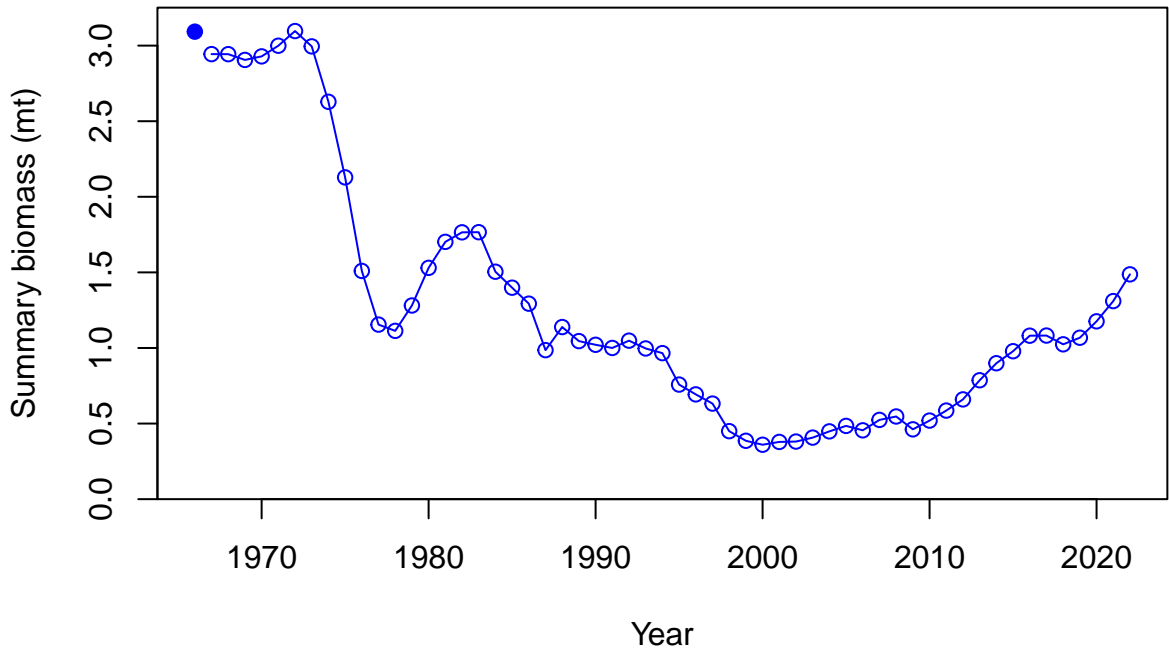


Relative spawning biomass:  $B/B_{MSY}$

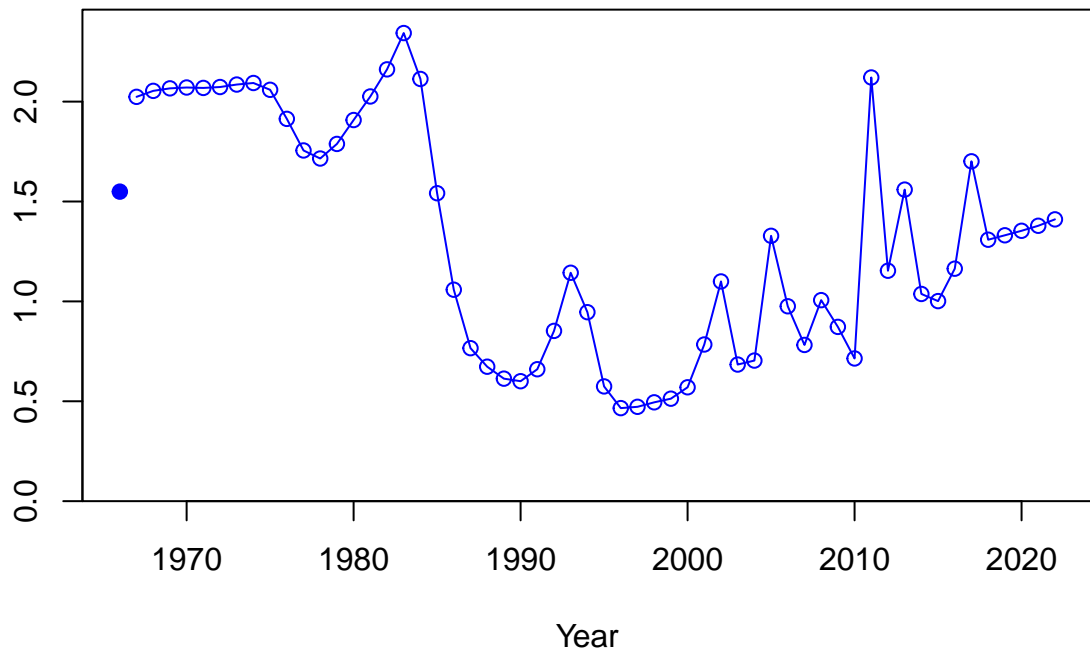




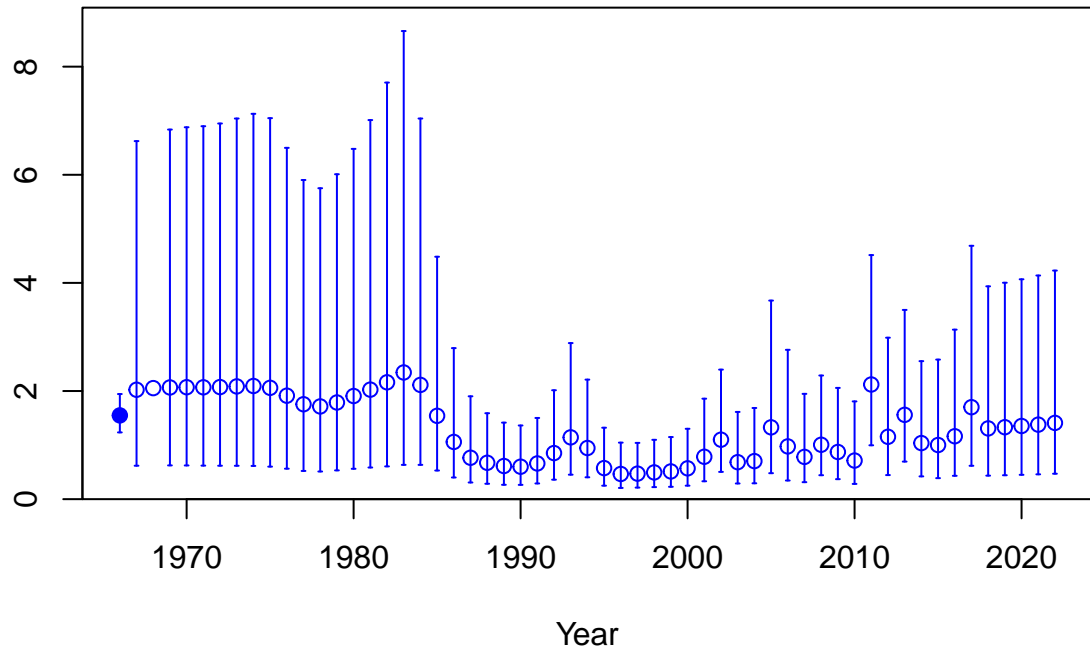




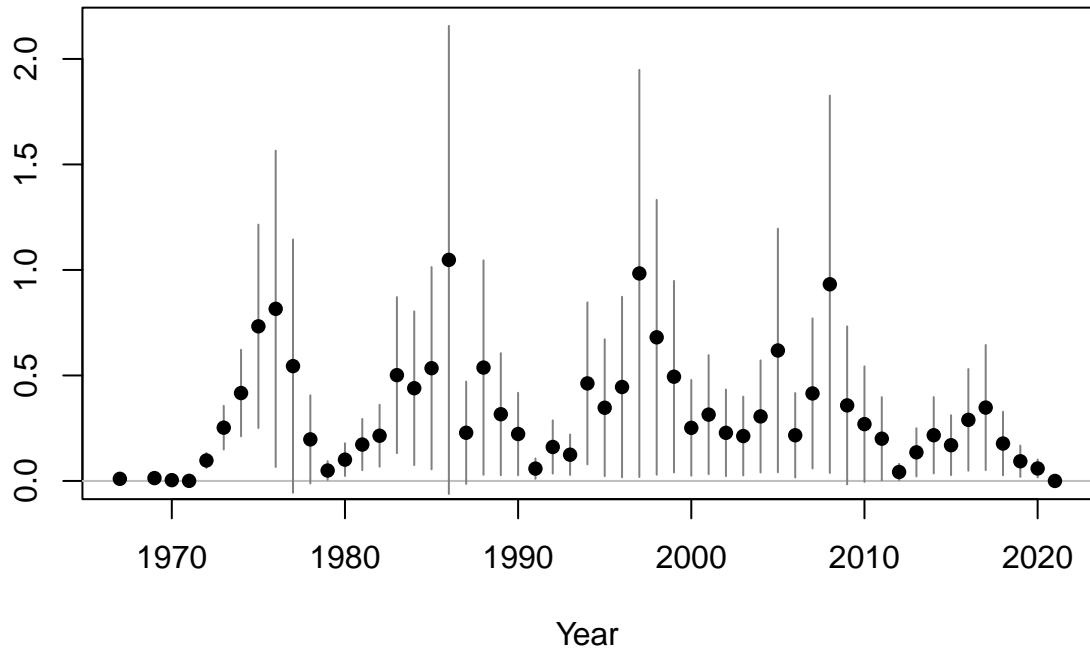
Age-0 recruits (1,000s)

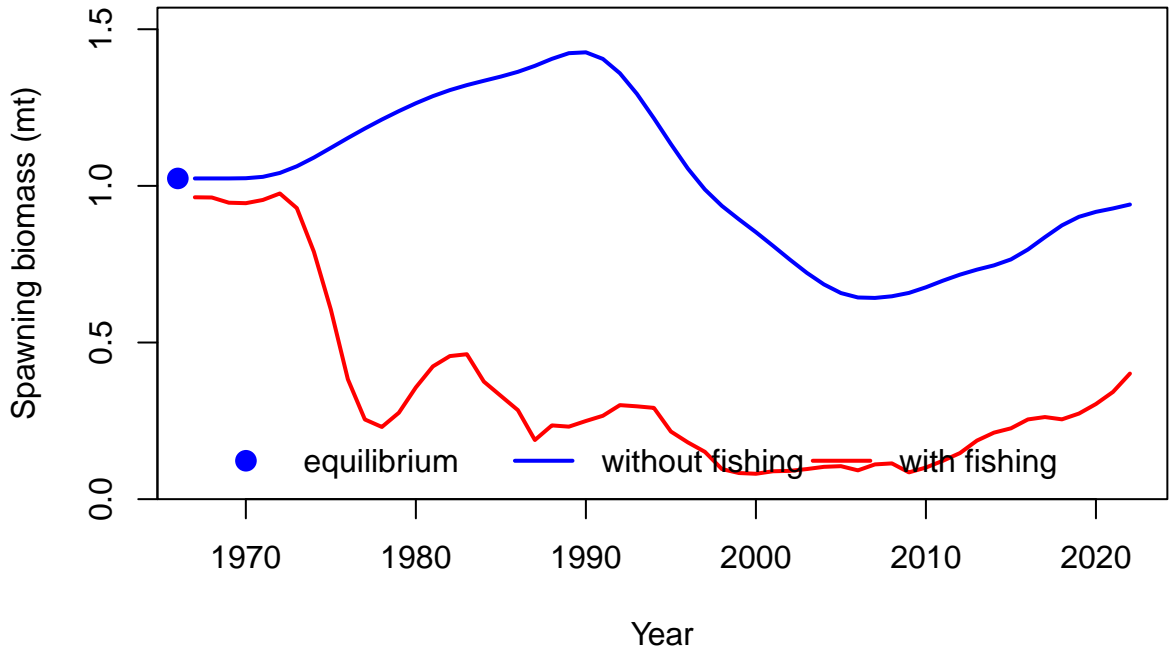


Age-0 recruits (1,000s)

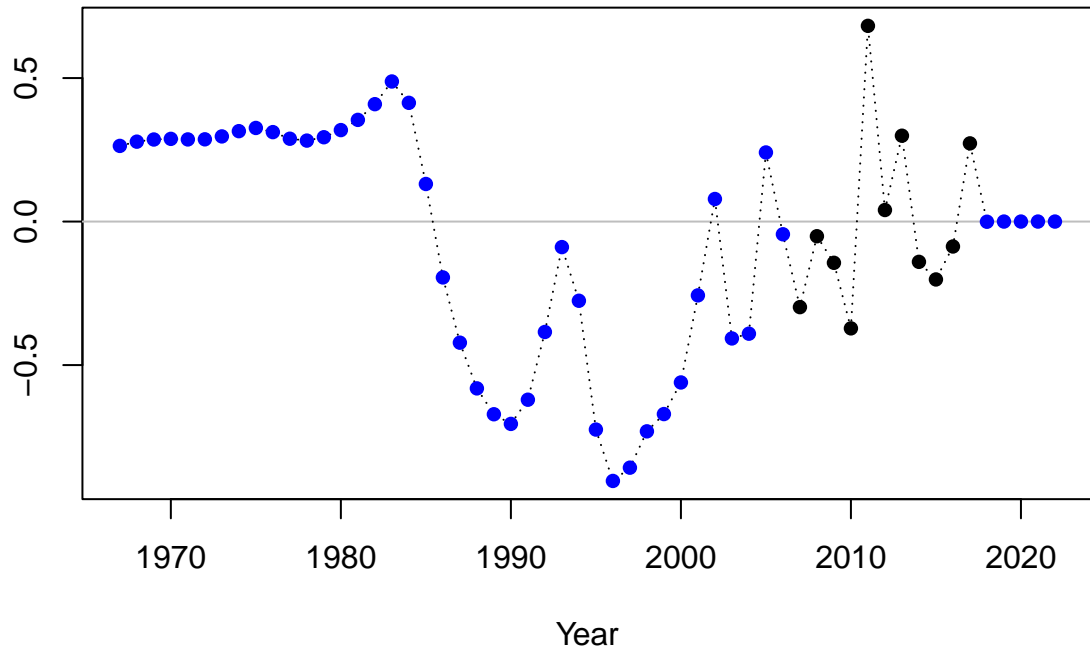


Summary Fishing Mortality

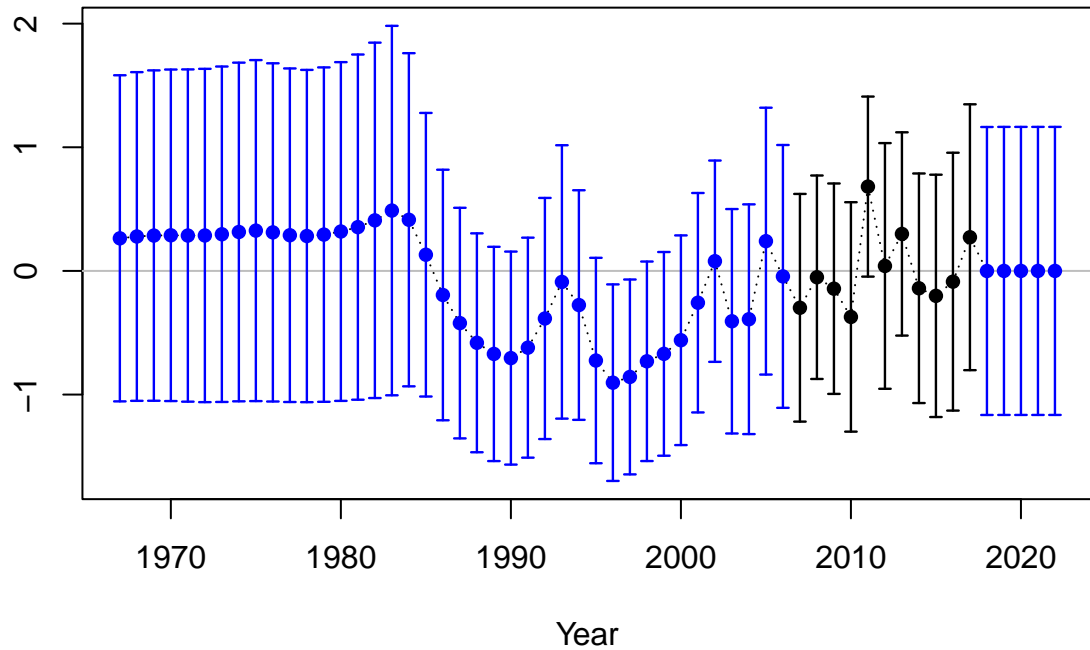




Log recruitment deviation

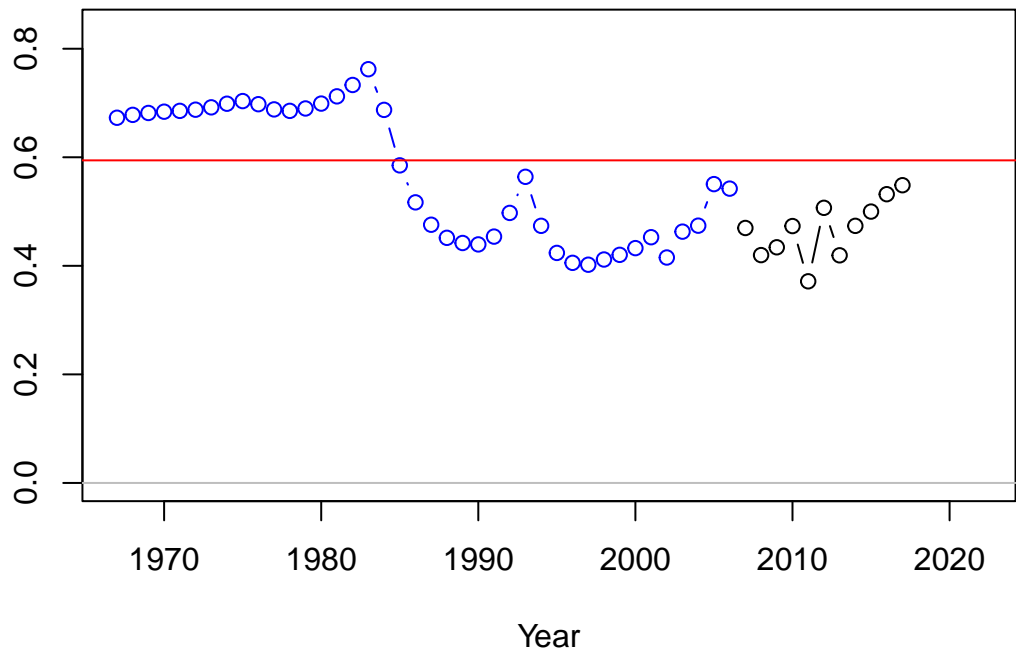


Log recruitment deviation

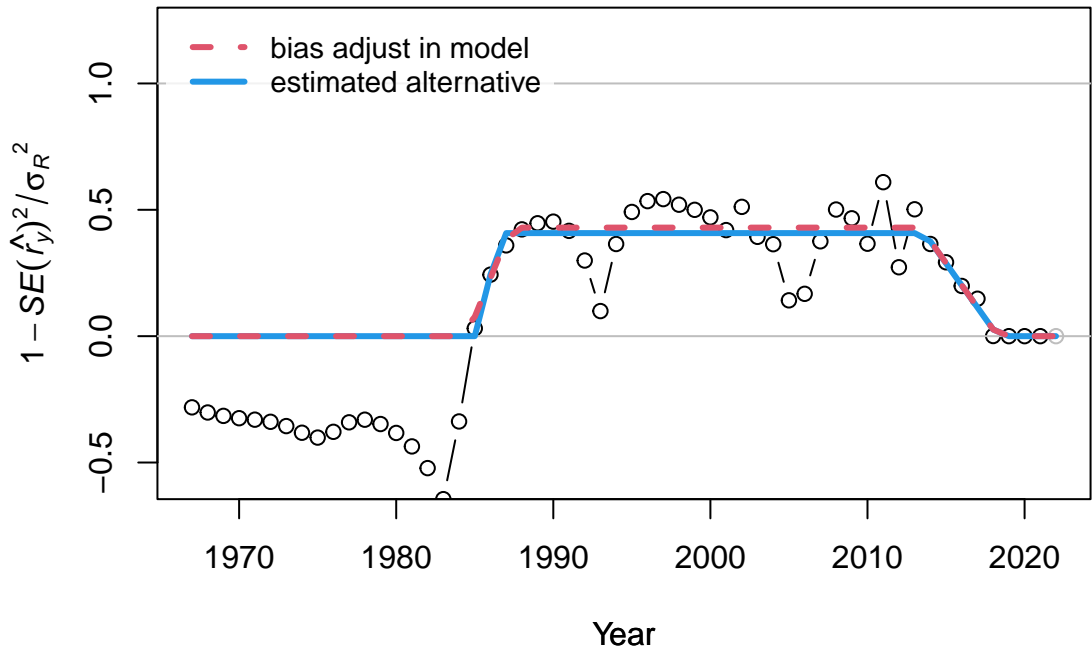


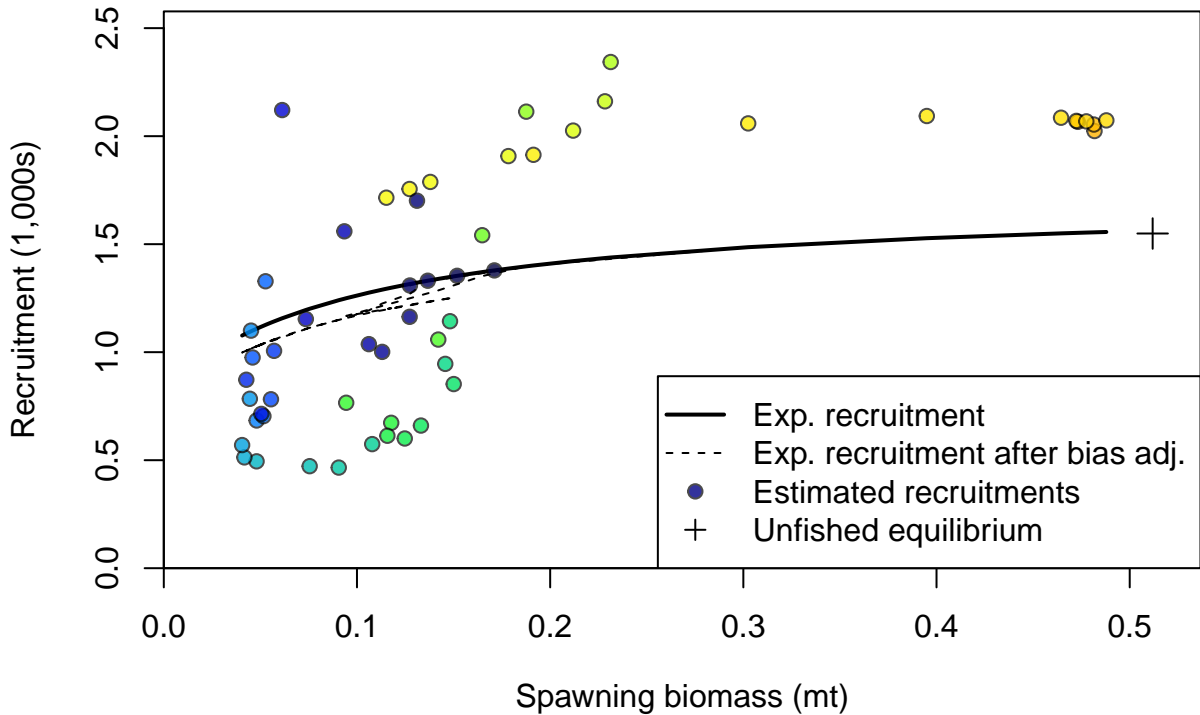
## Recruitment deviation variance

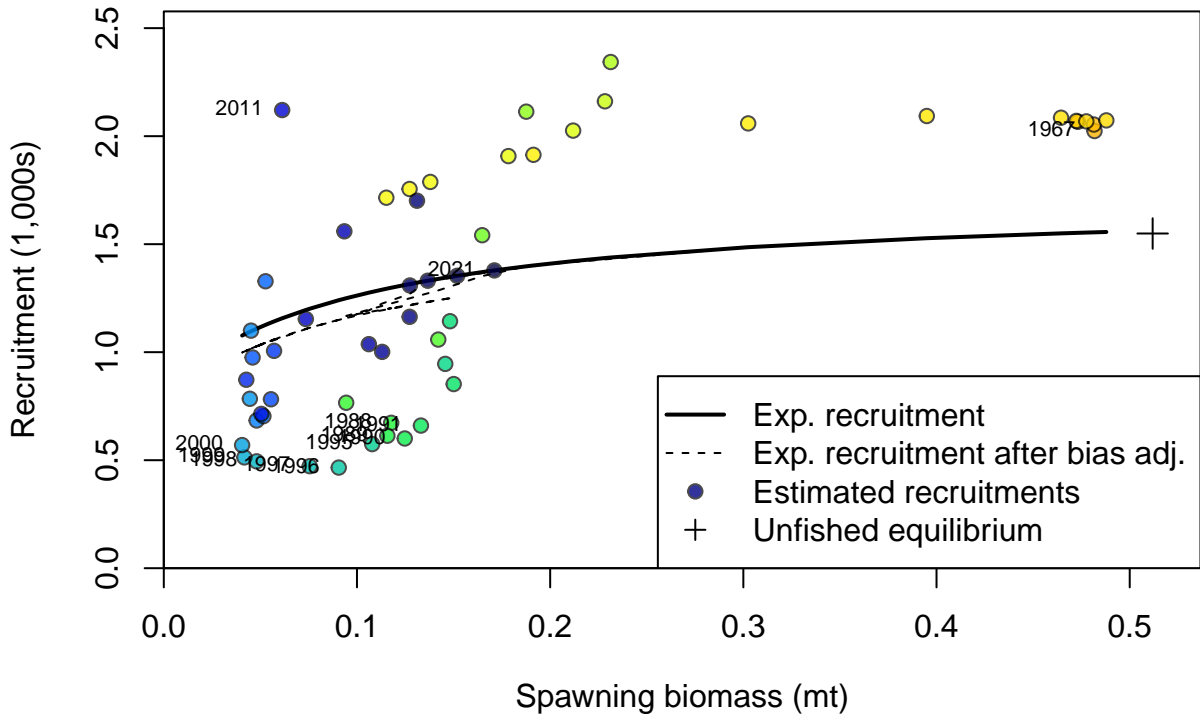
Asymptotic standard error estimate



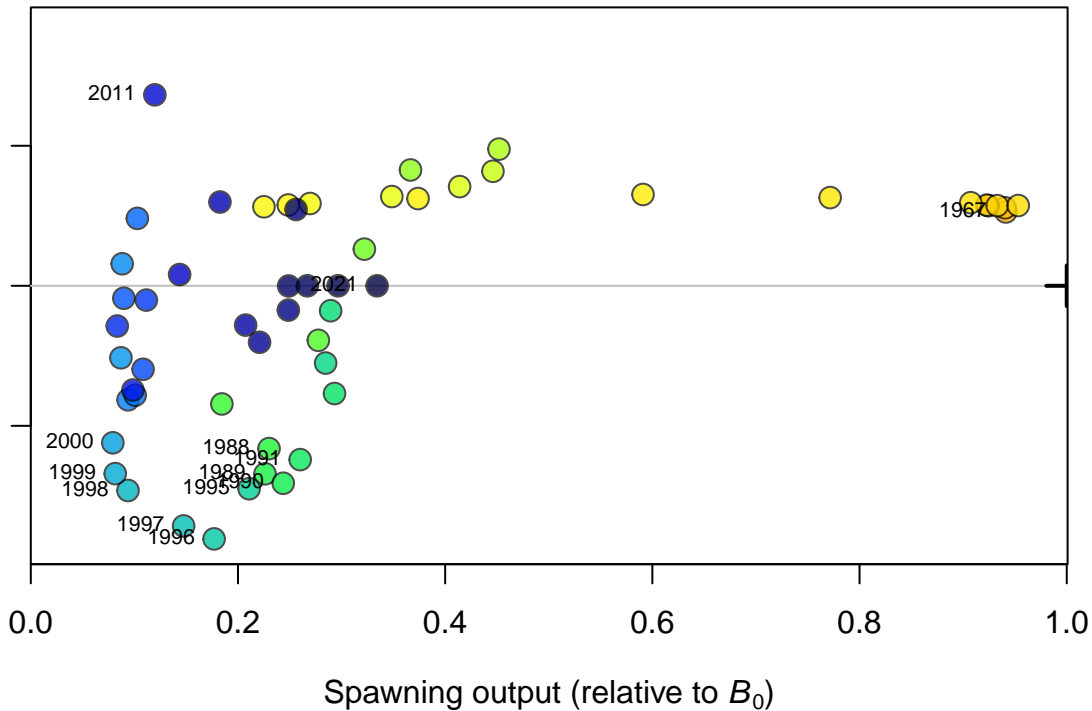


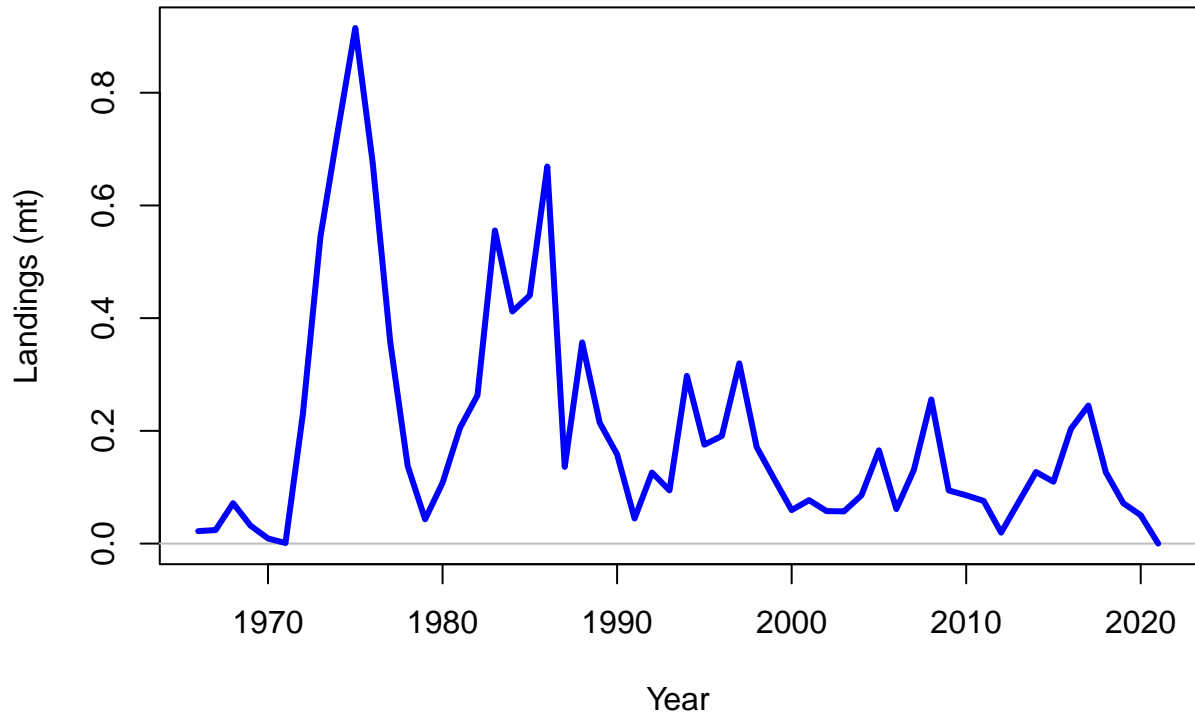


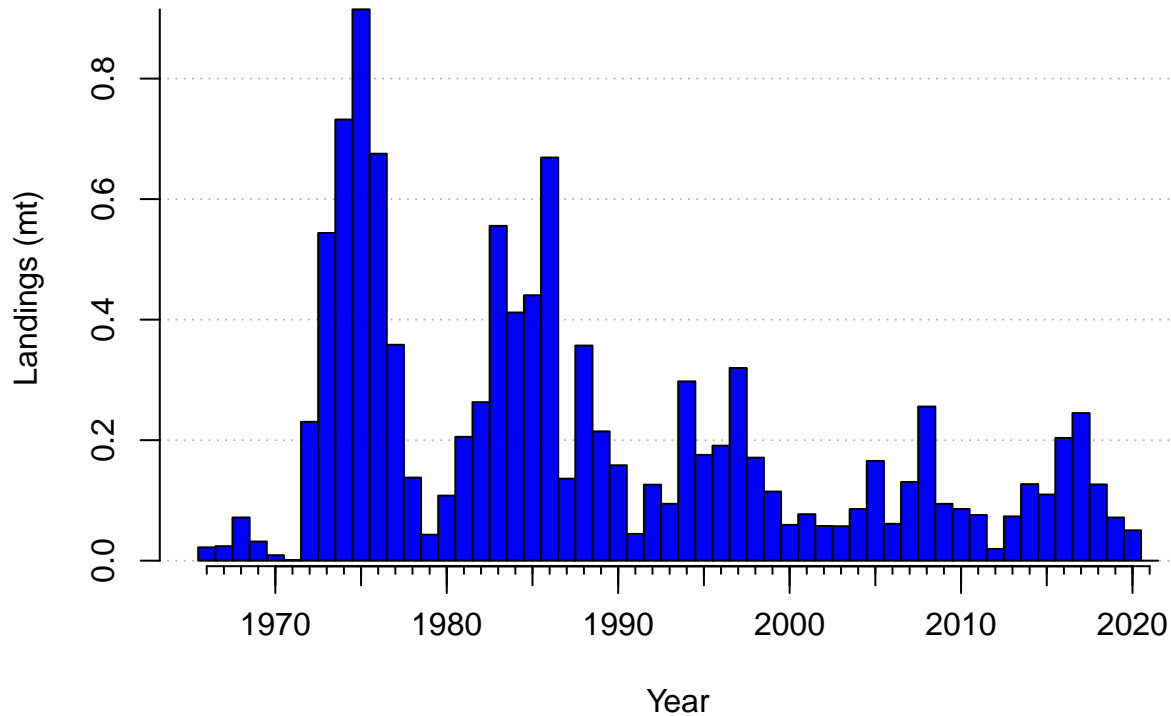


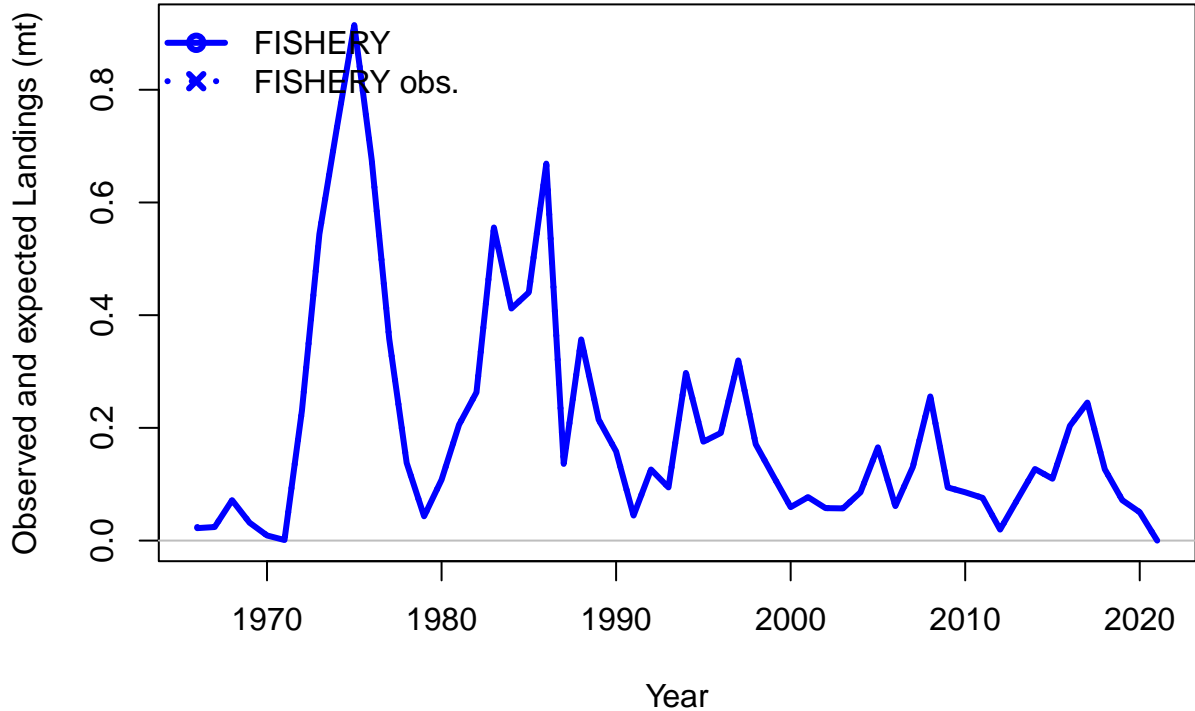


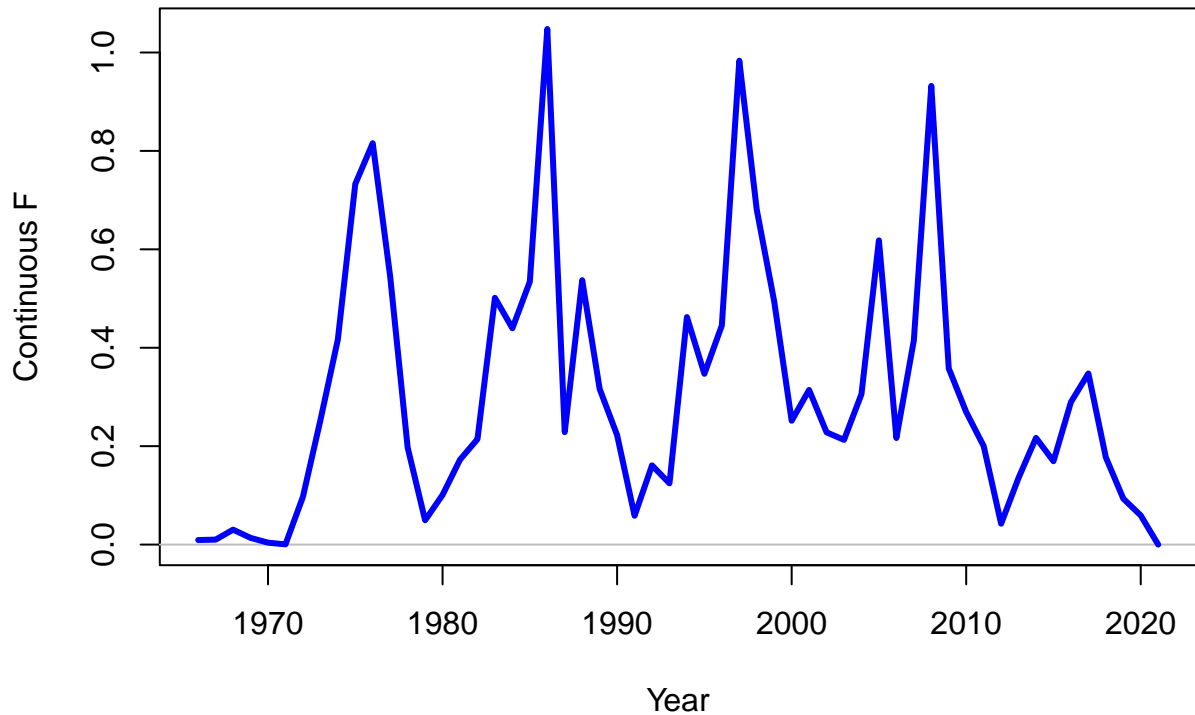
Log recruitment deviation





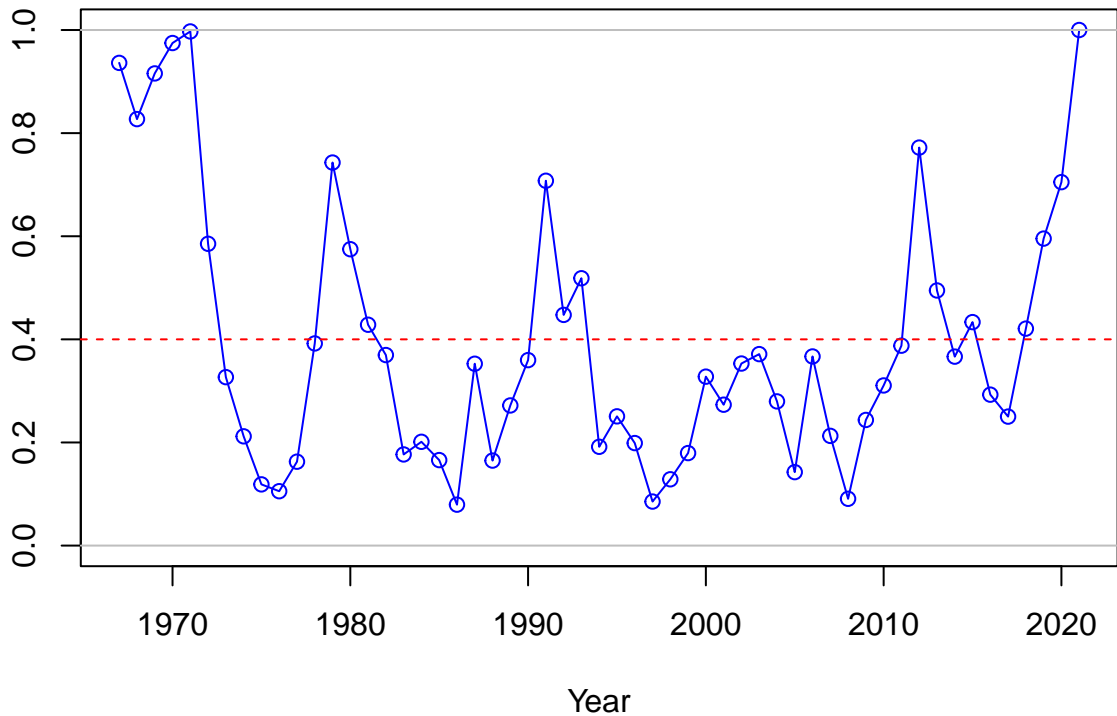


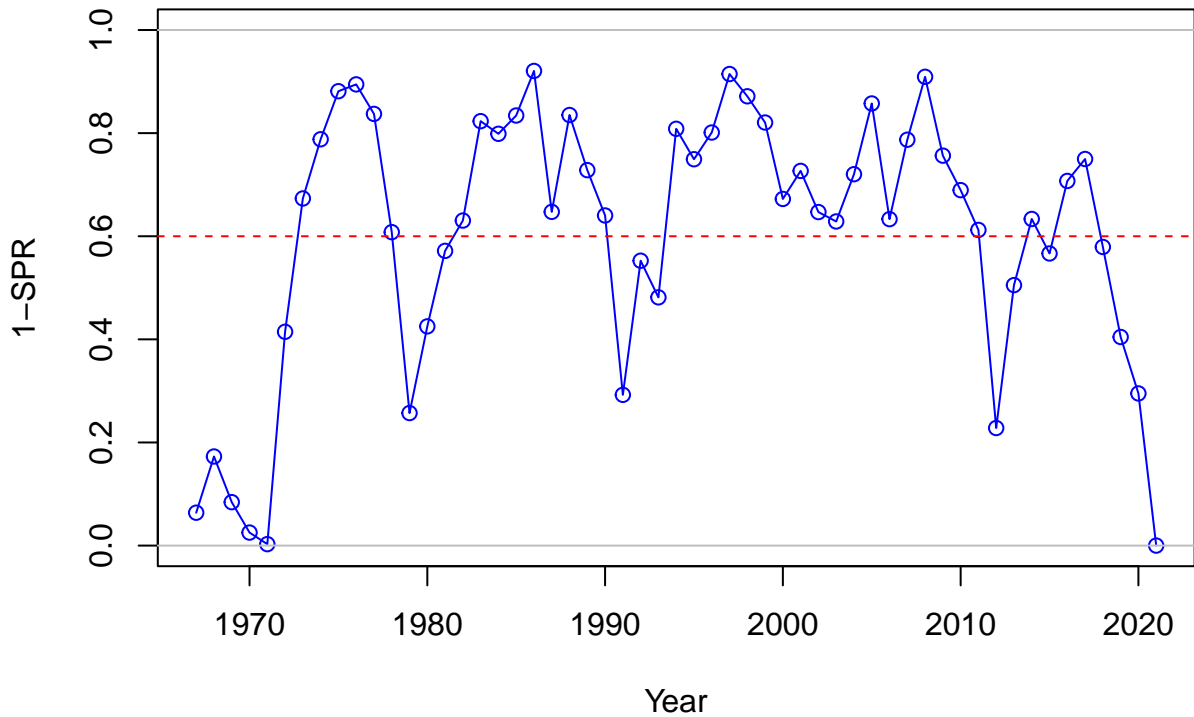




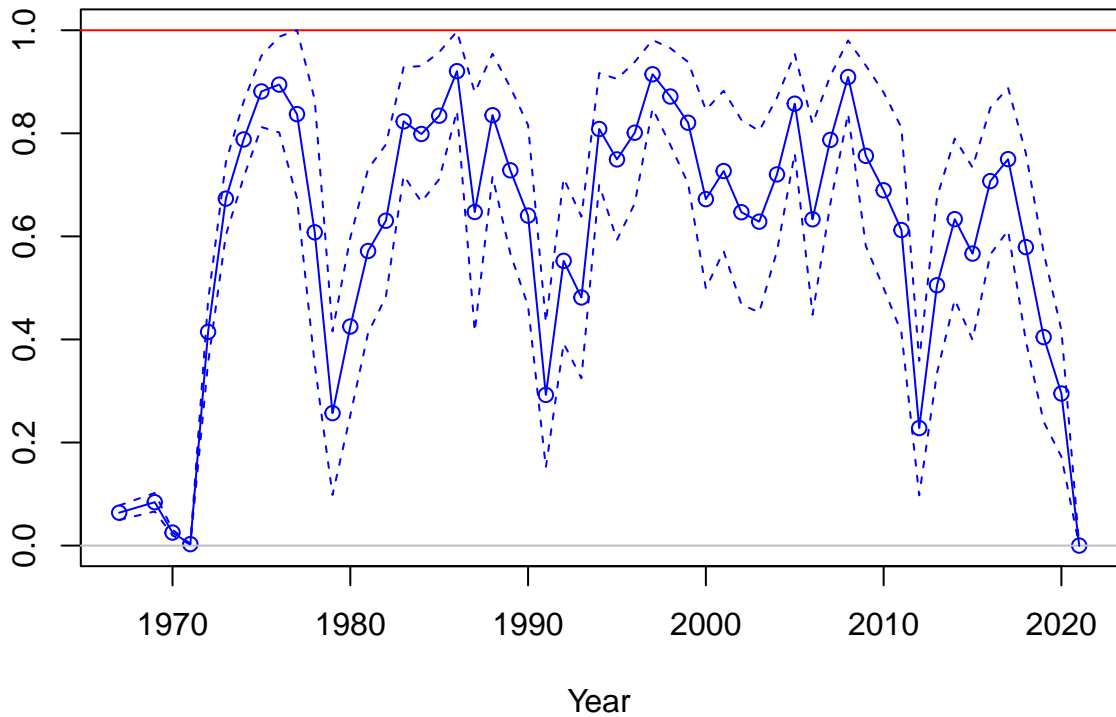


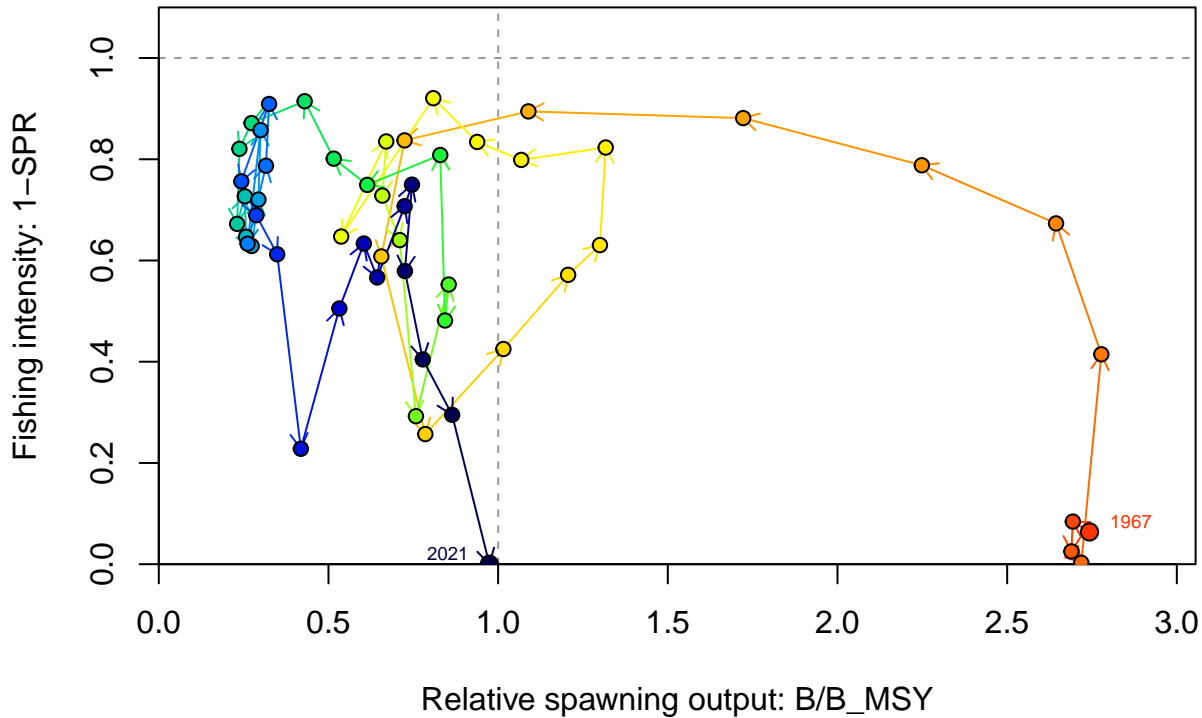
SPR



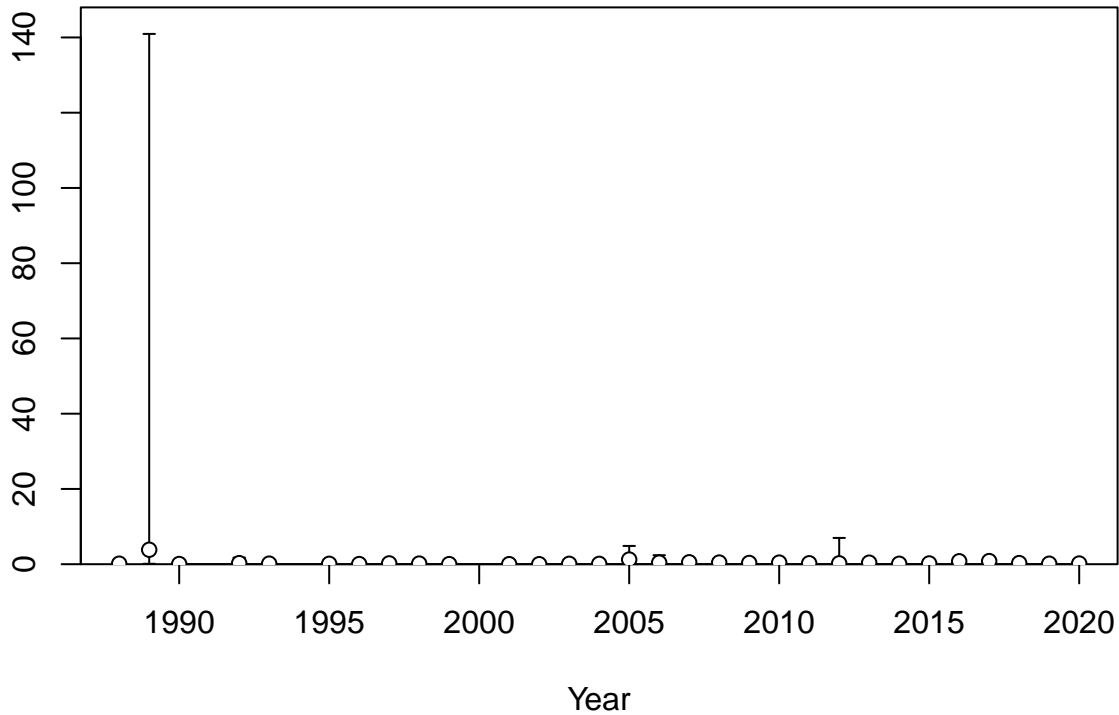


Fishing intensity: 1-SPR

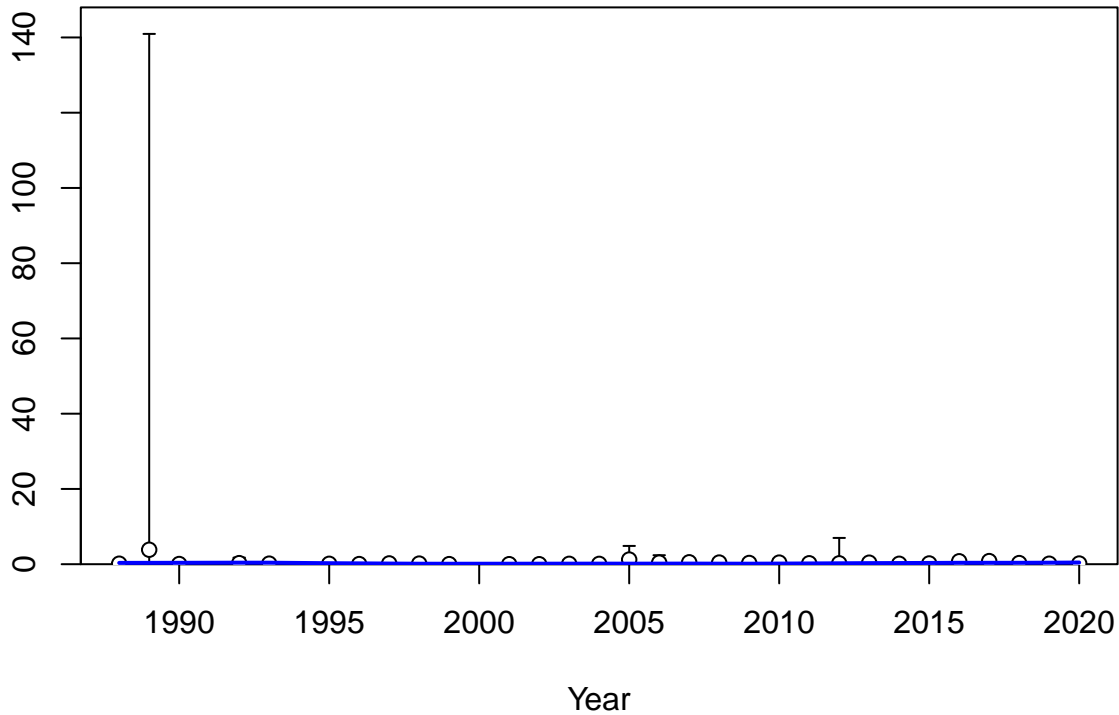


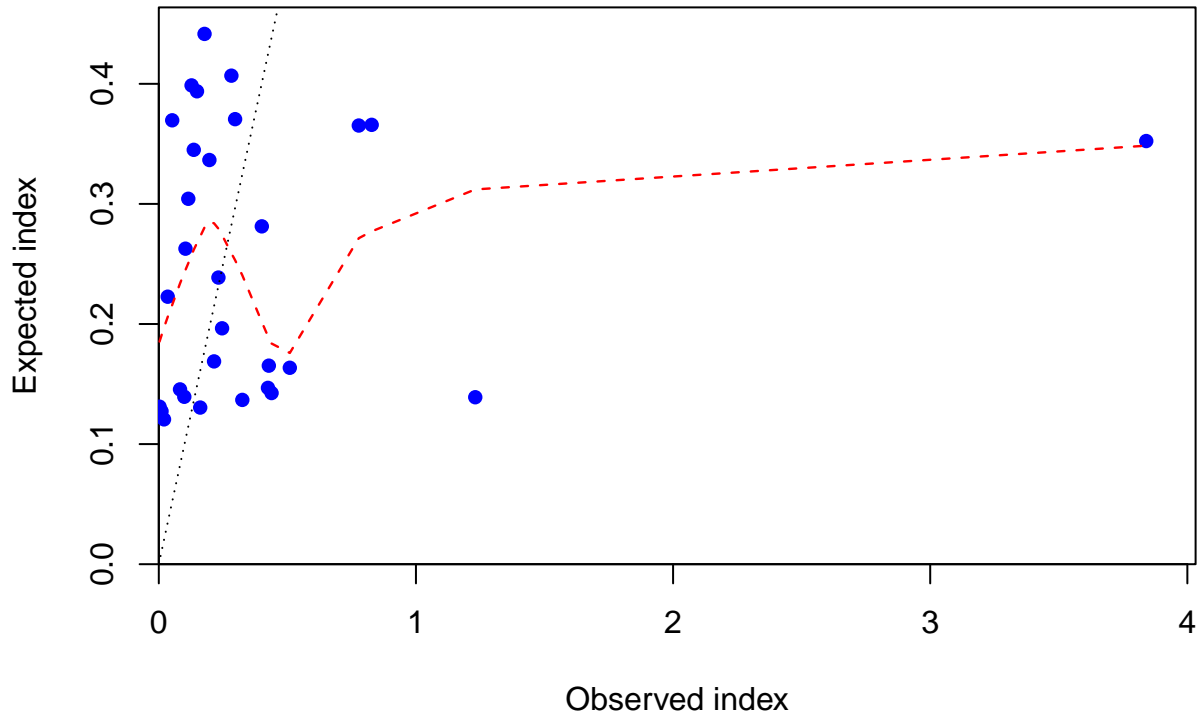


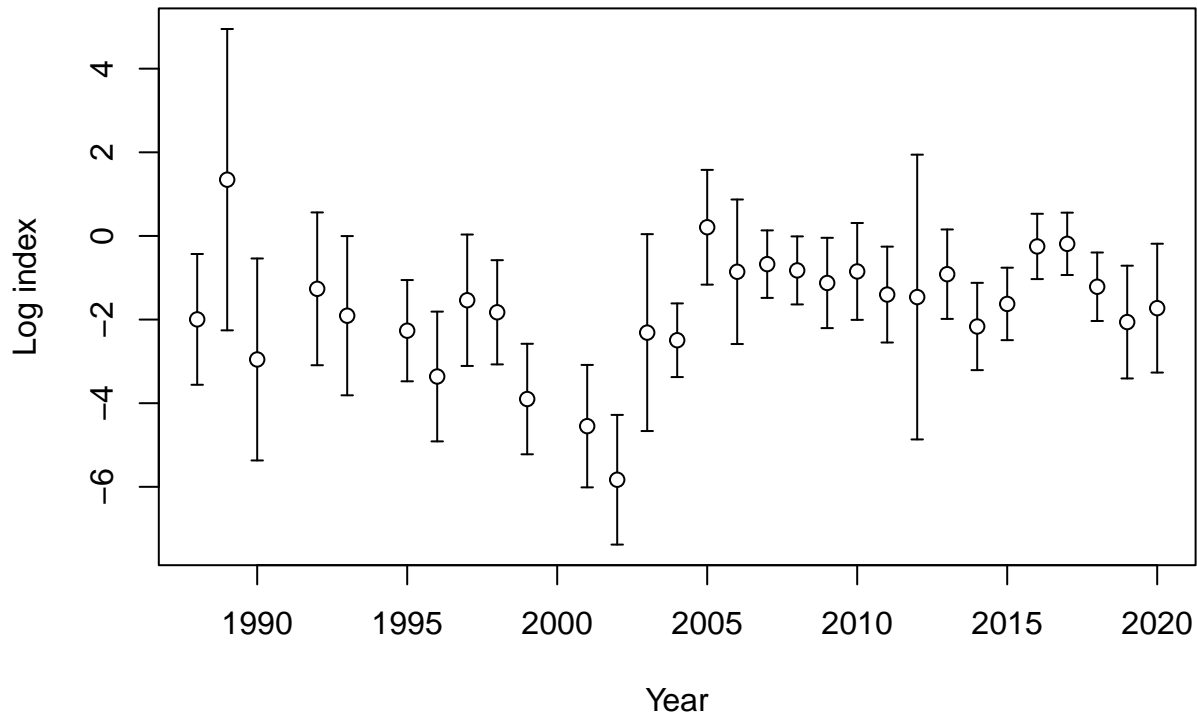
Index



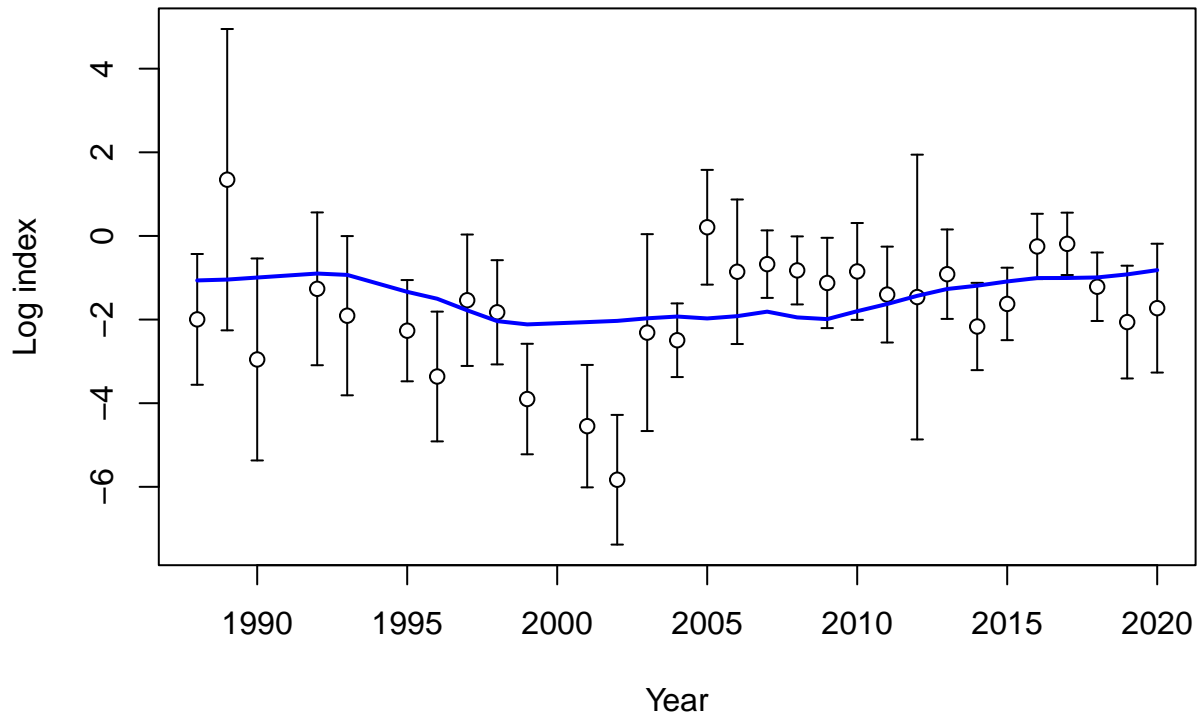
Index

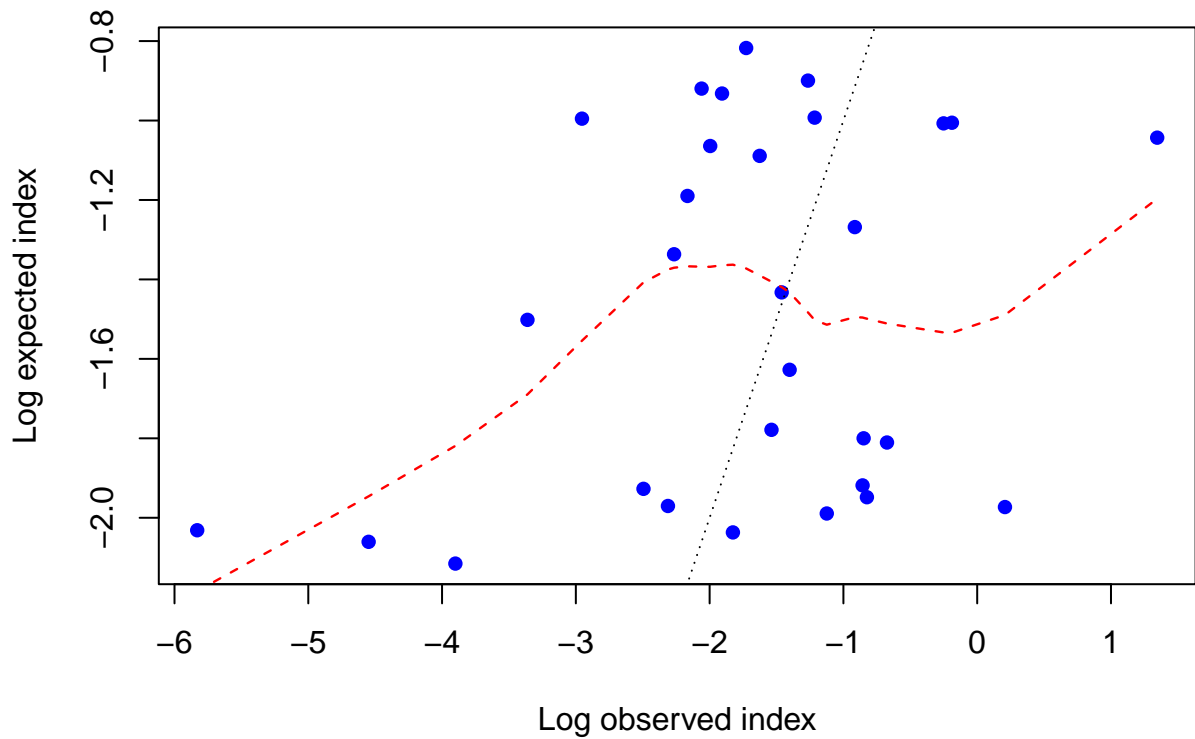


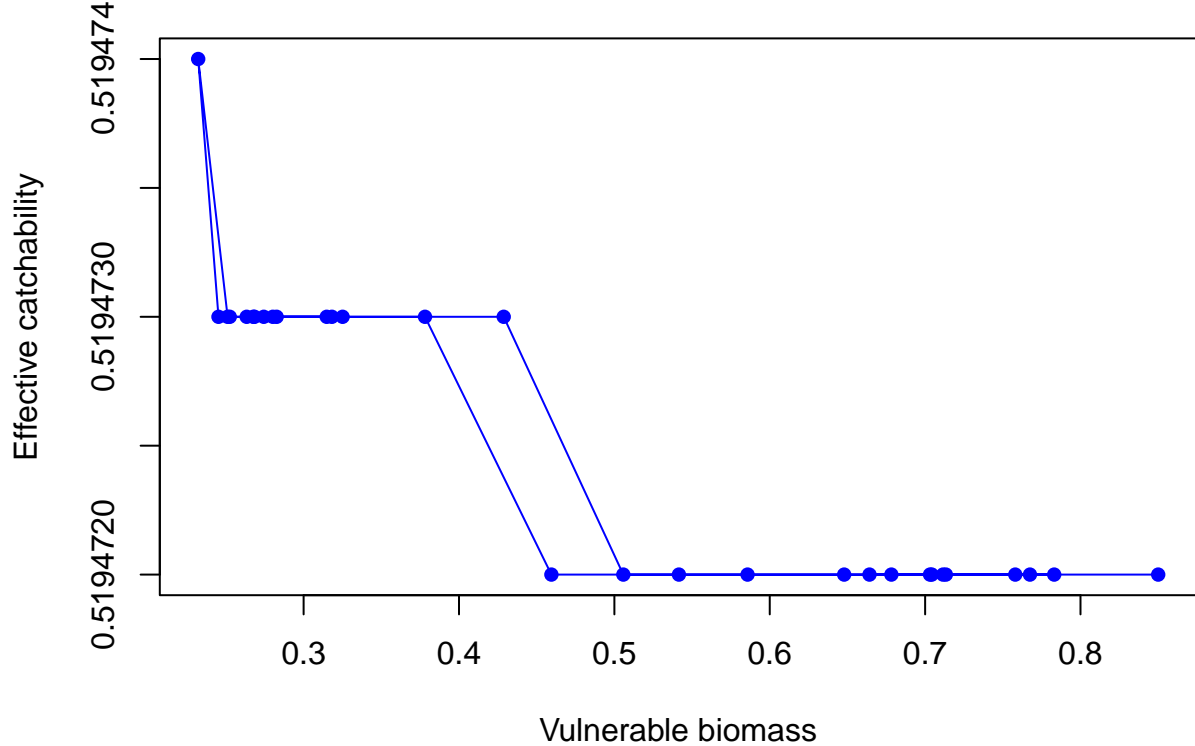


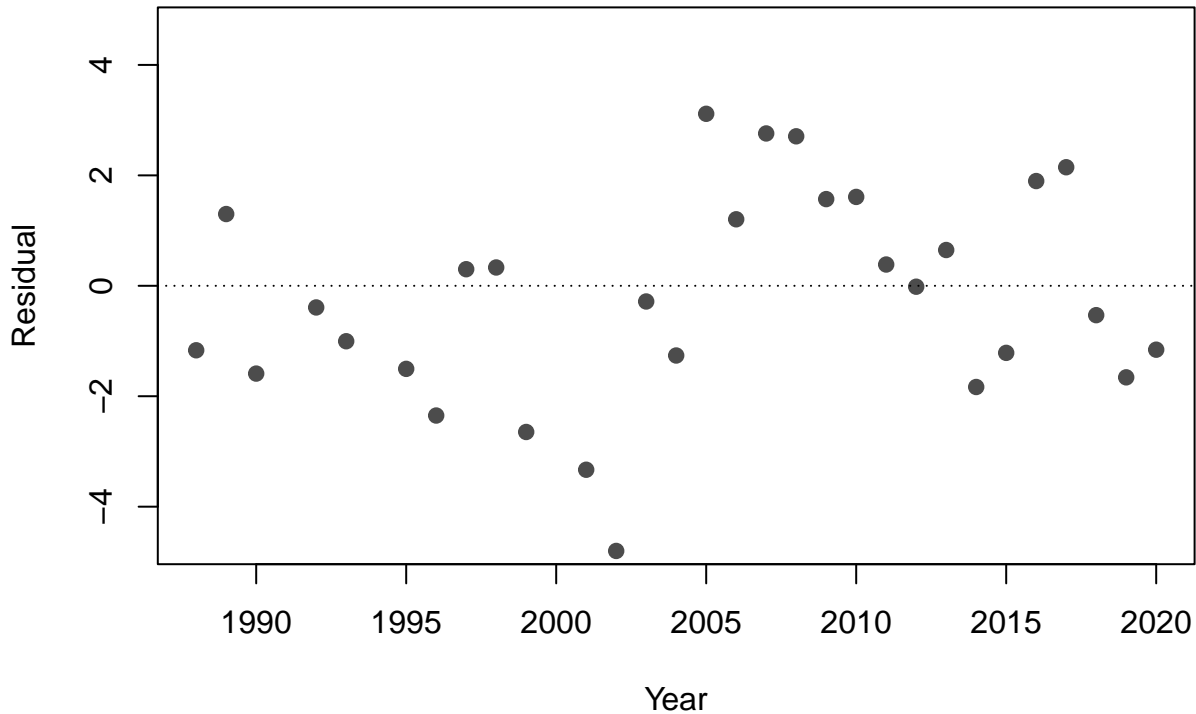


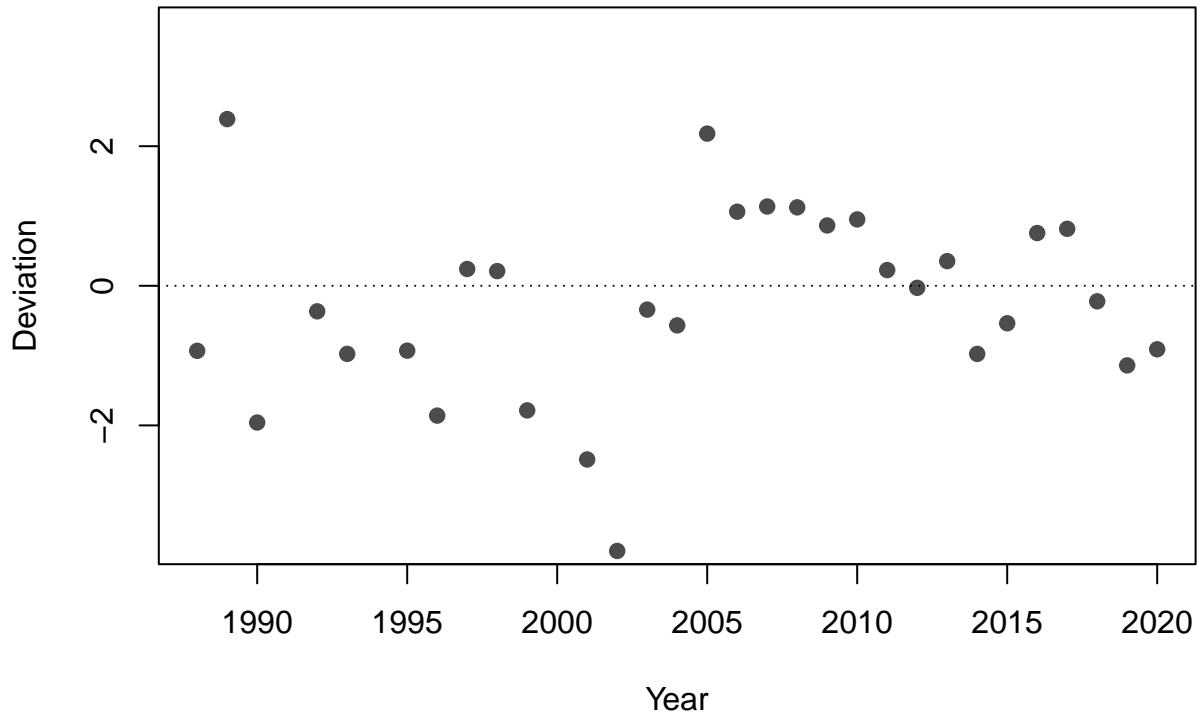


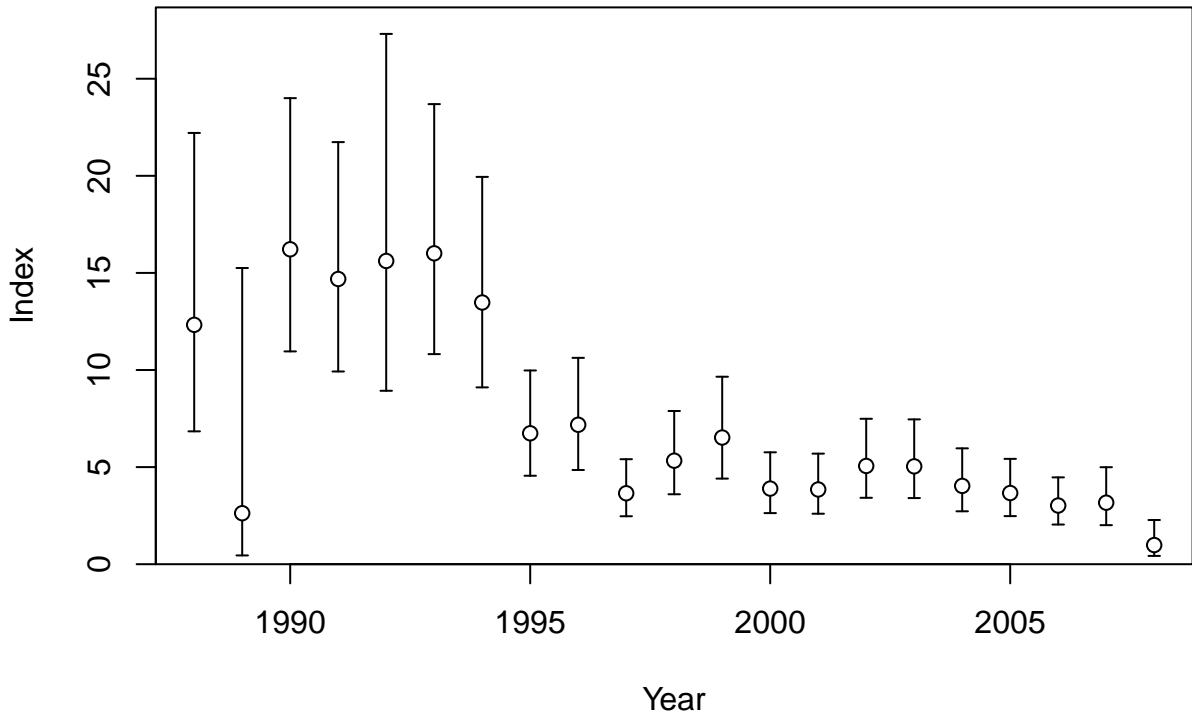


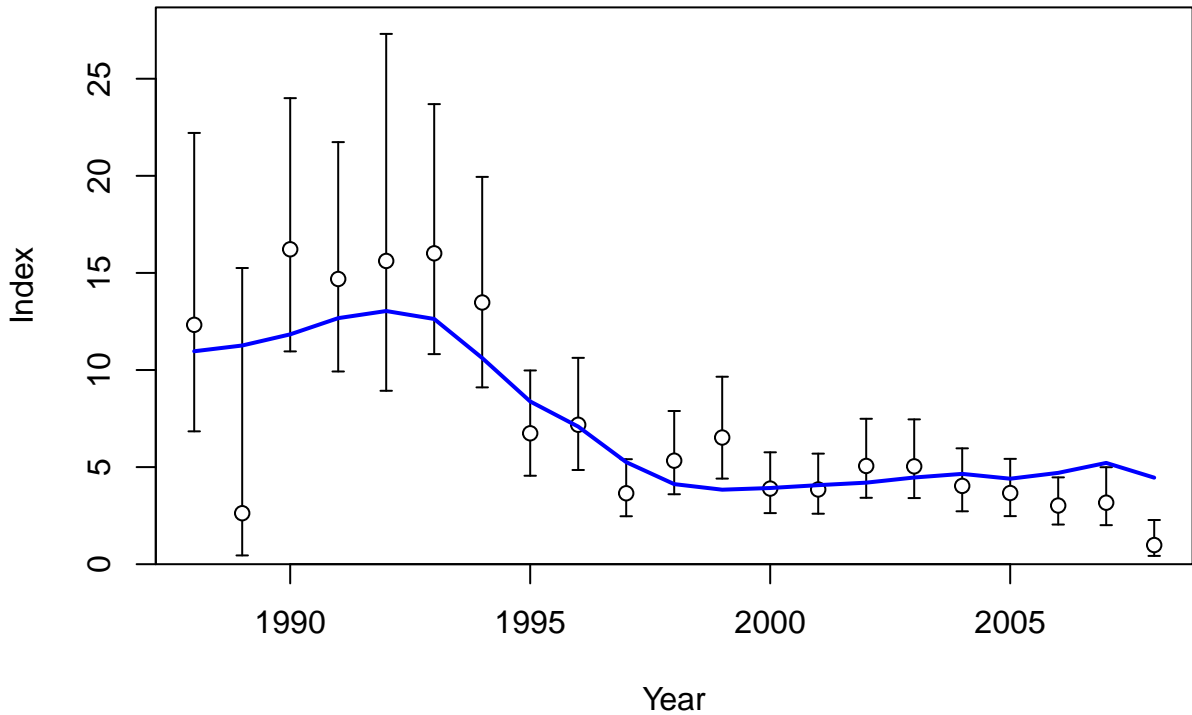


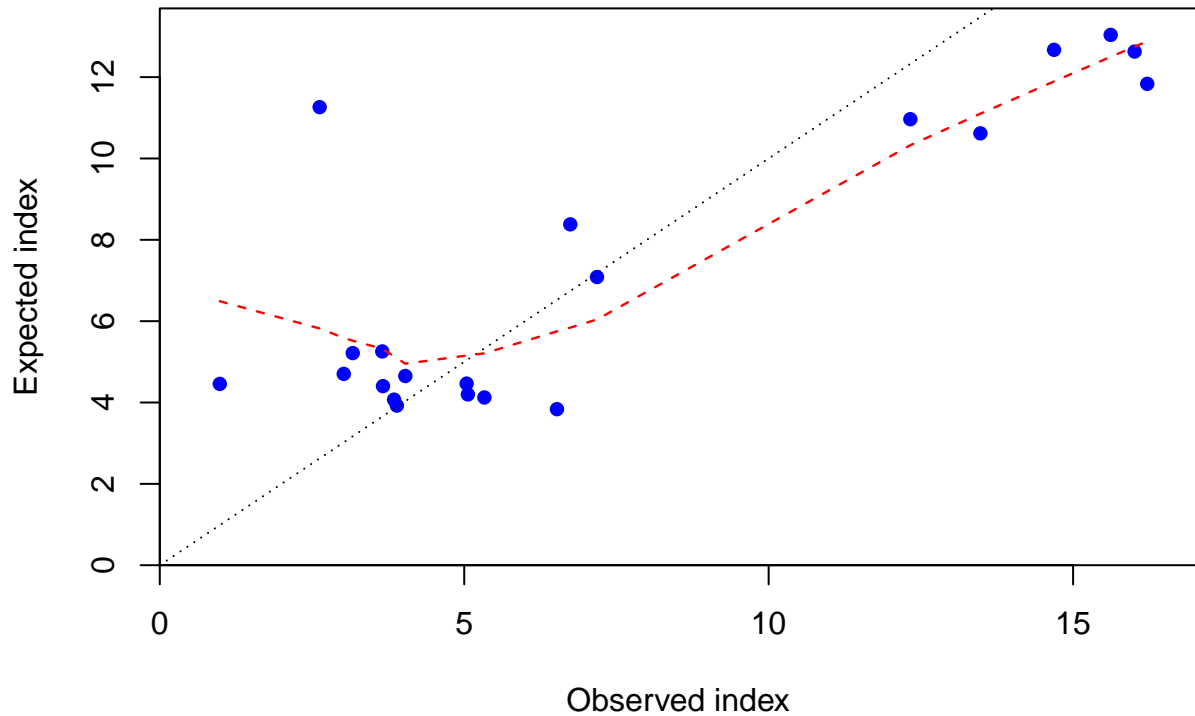




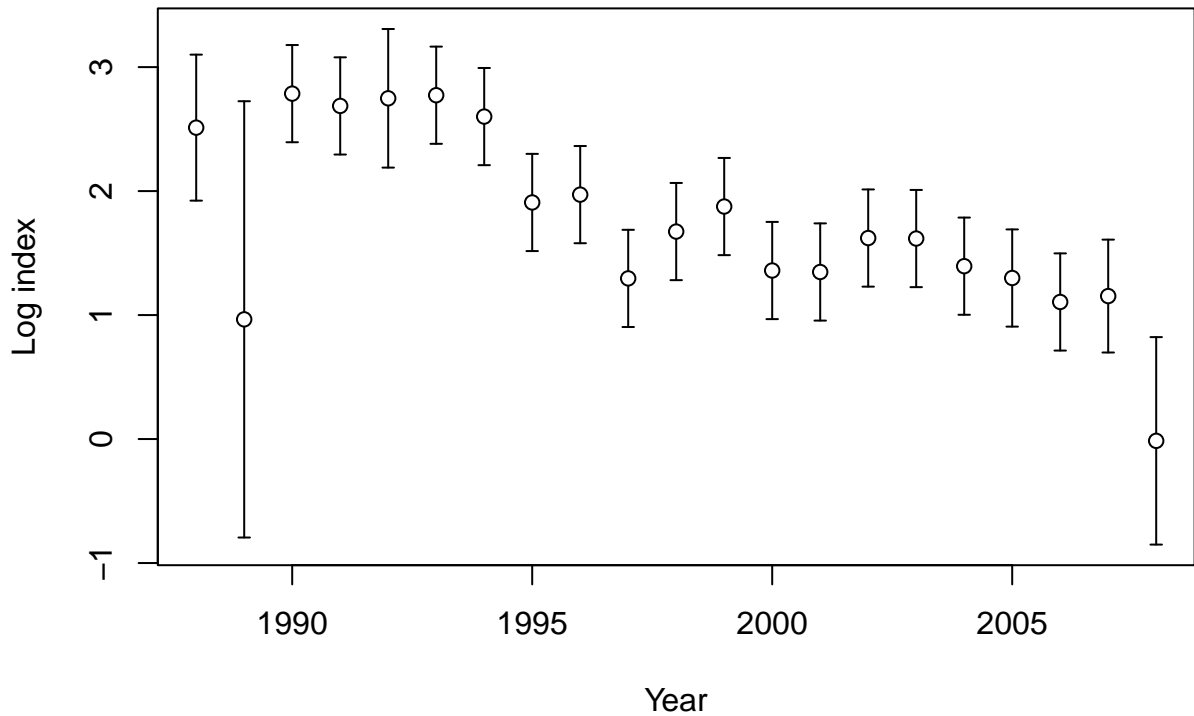


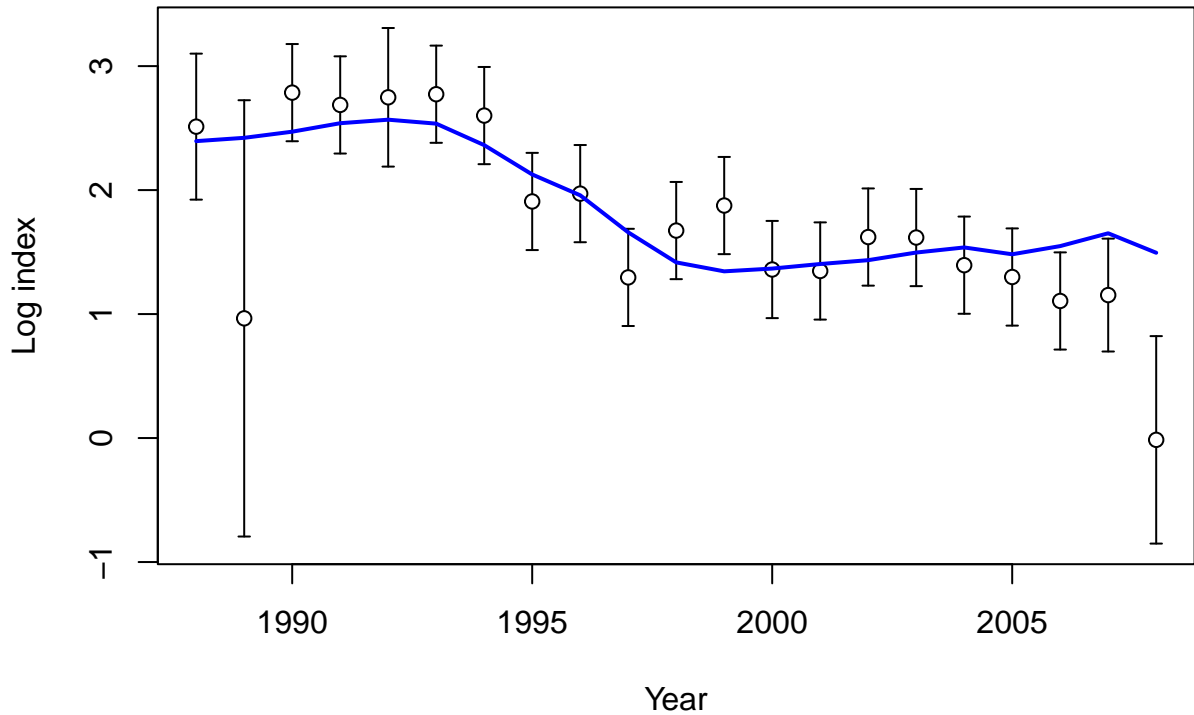




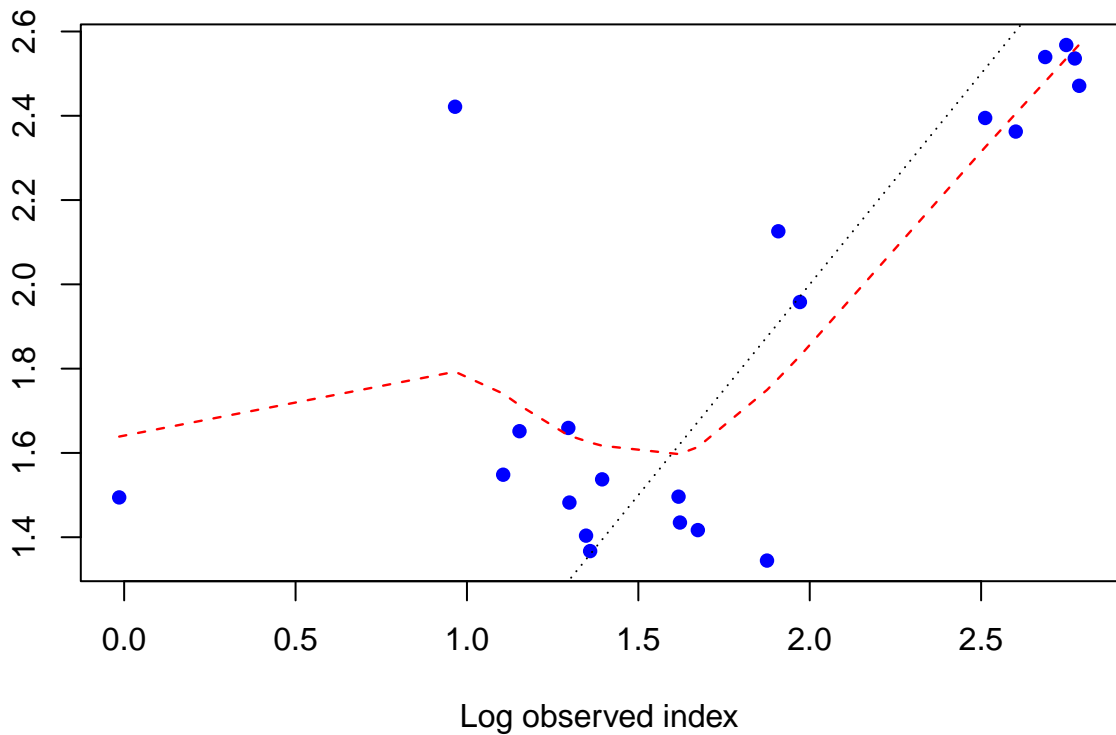


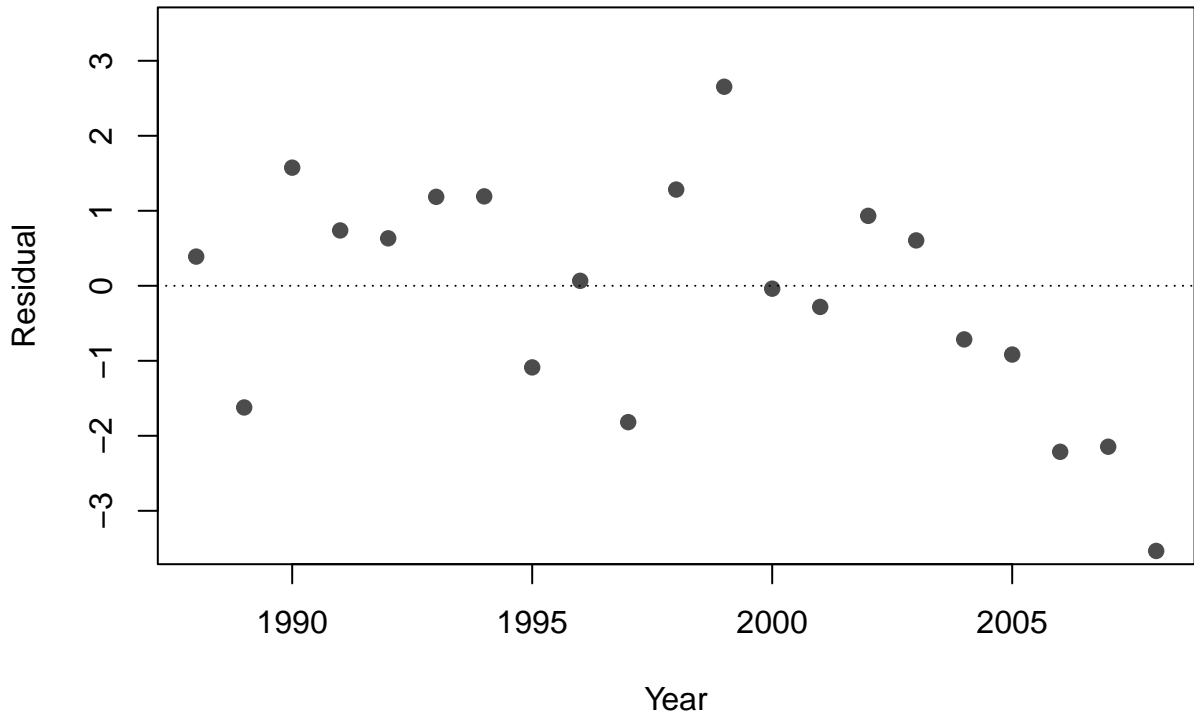






Log expected index





Deviation

1.5  
1.0  
0.5  
0.0  
-0.5  
-1.0  
-1.5

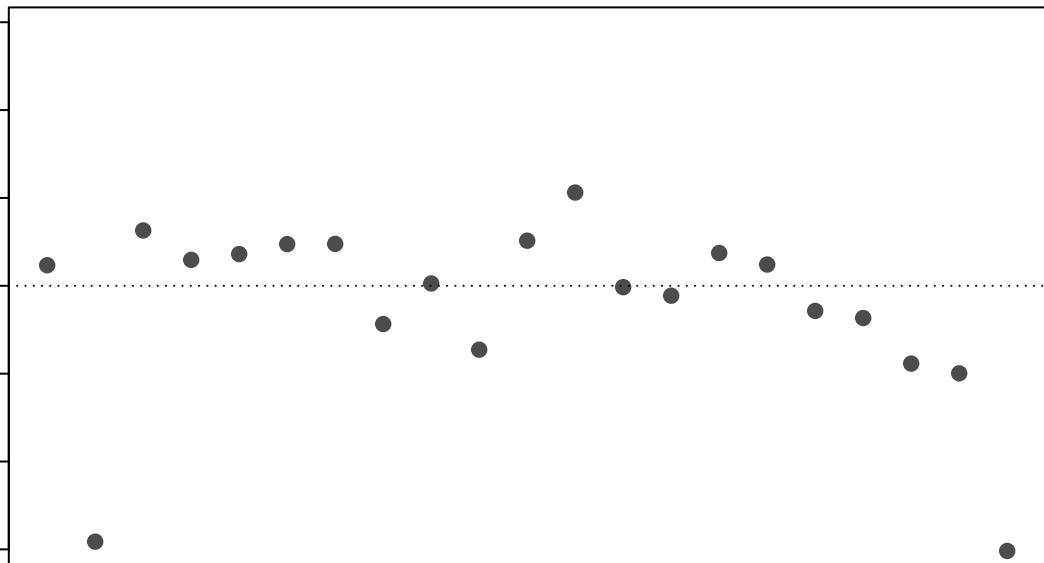
1990

1995

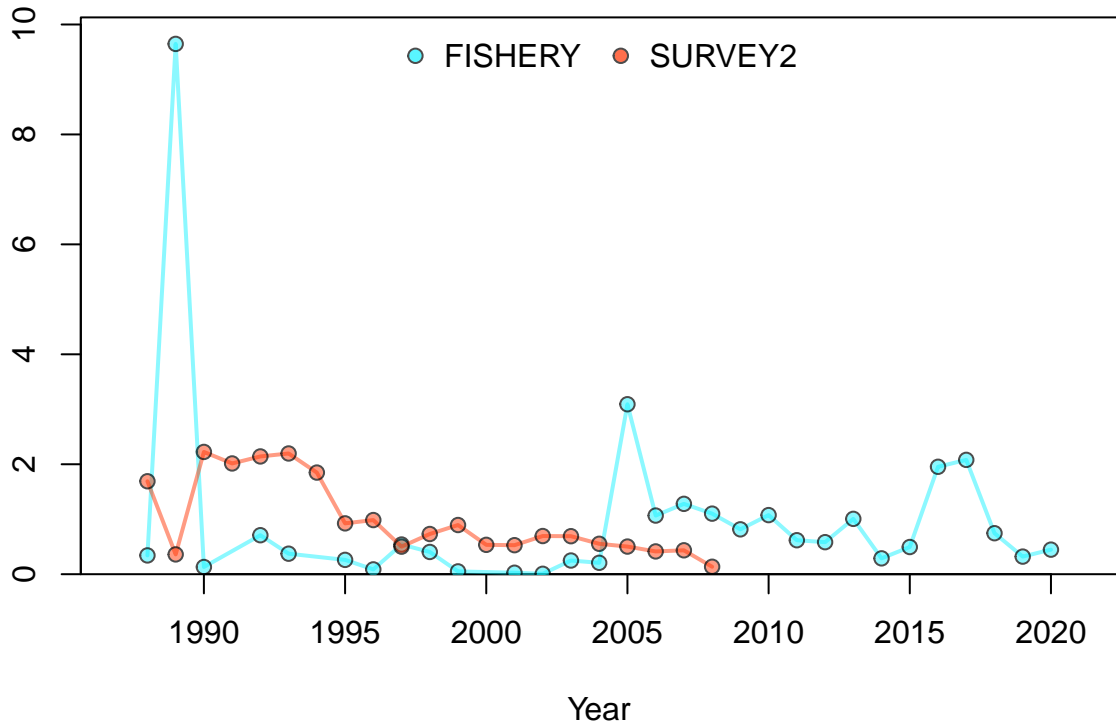
2000

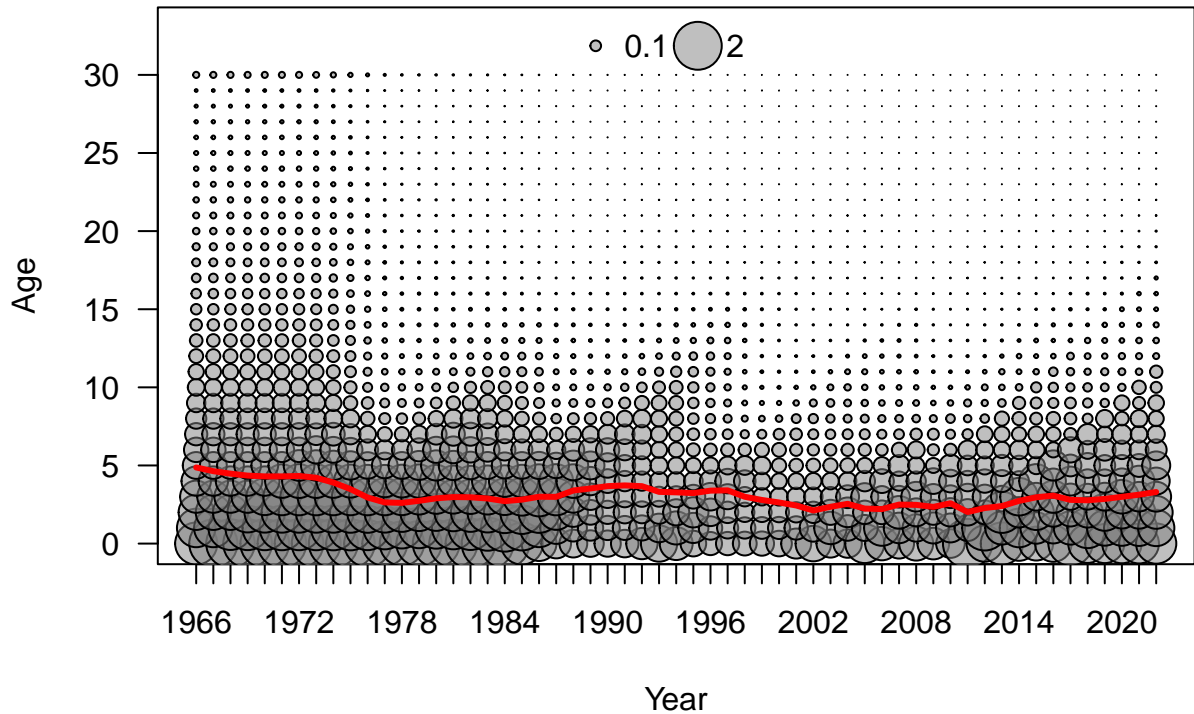
2005

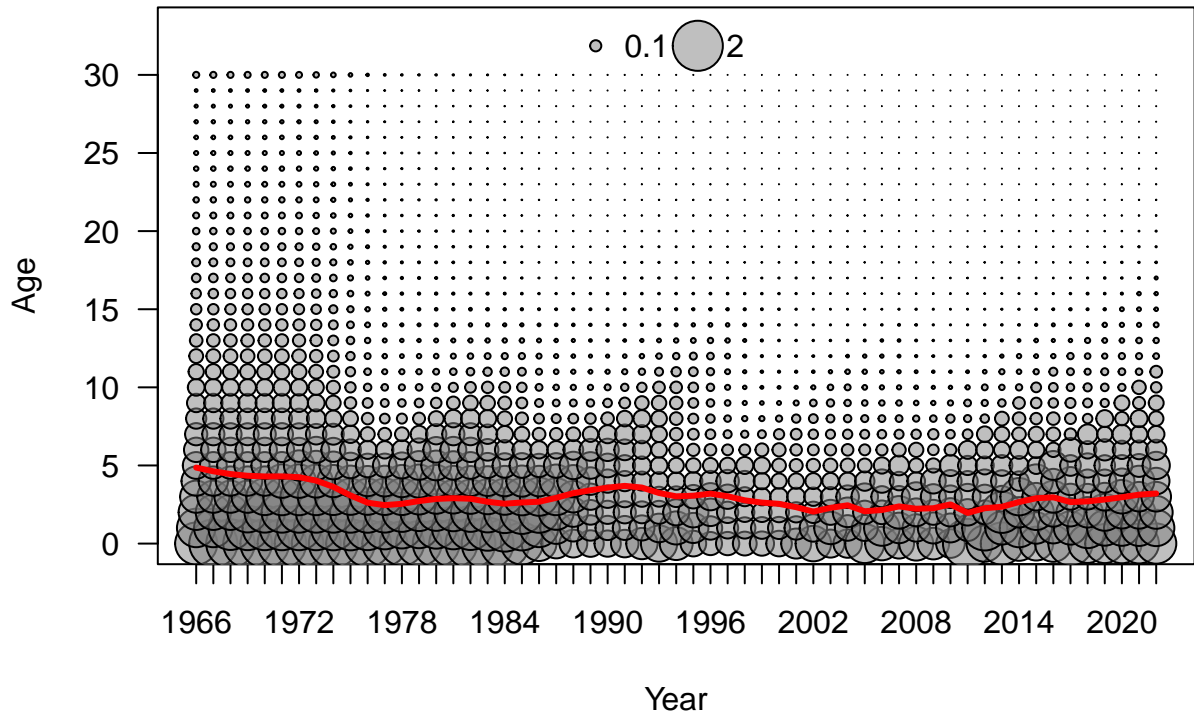
Year



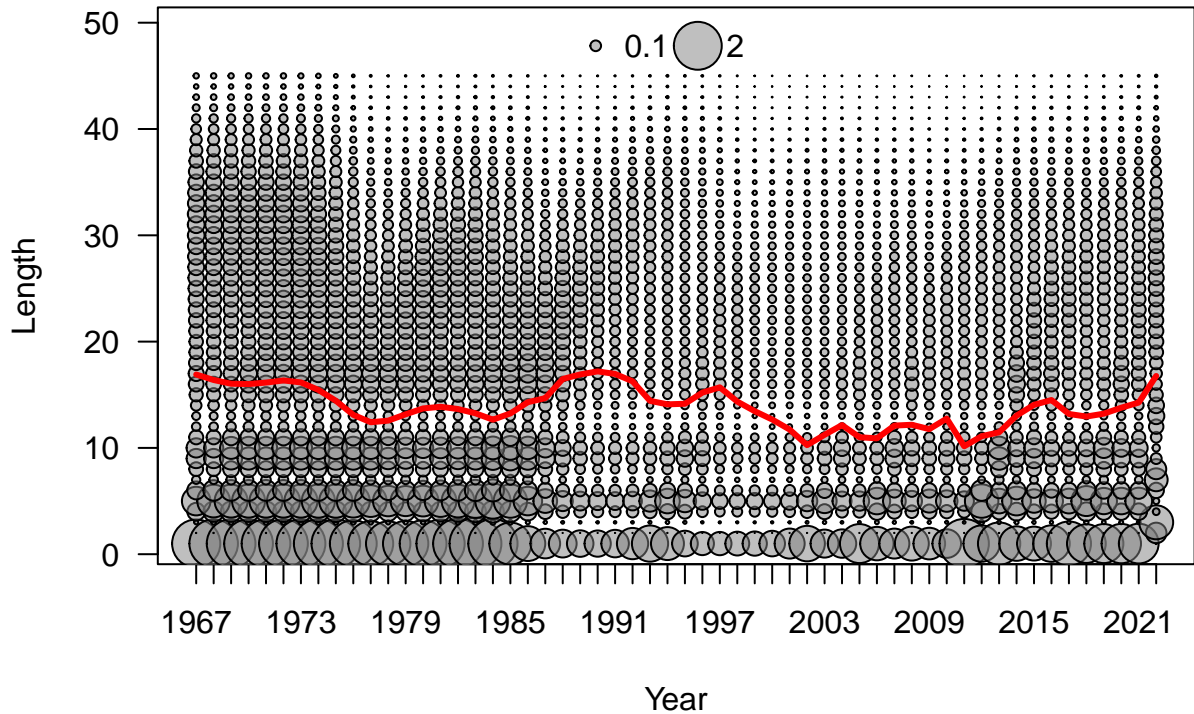
Standardized index

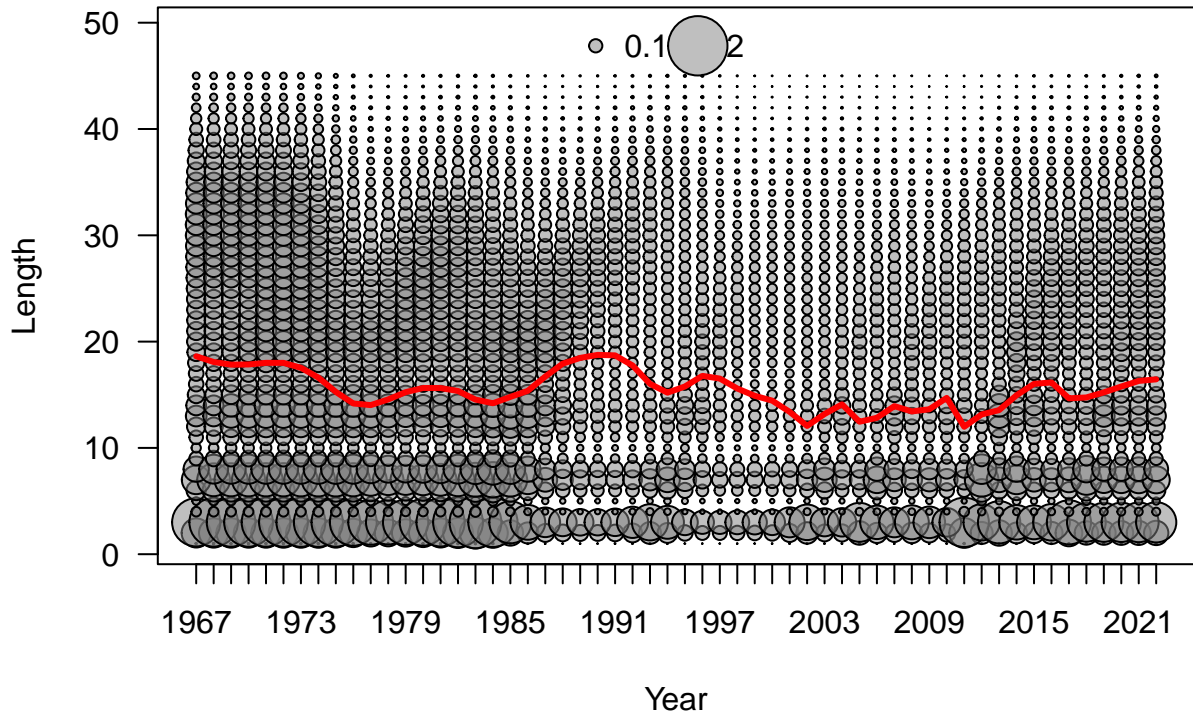


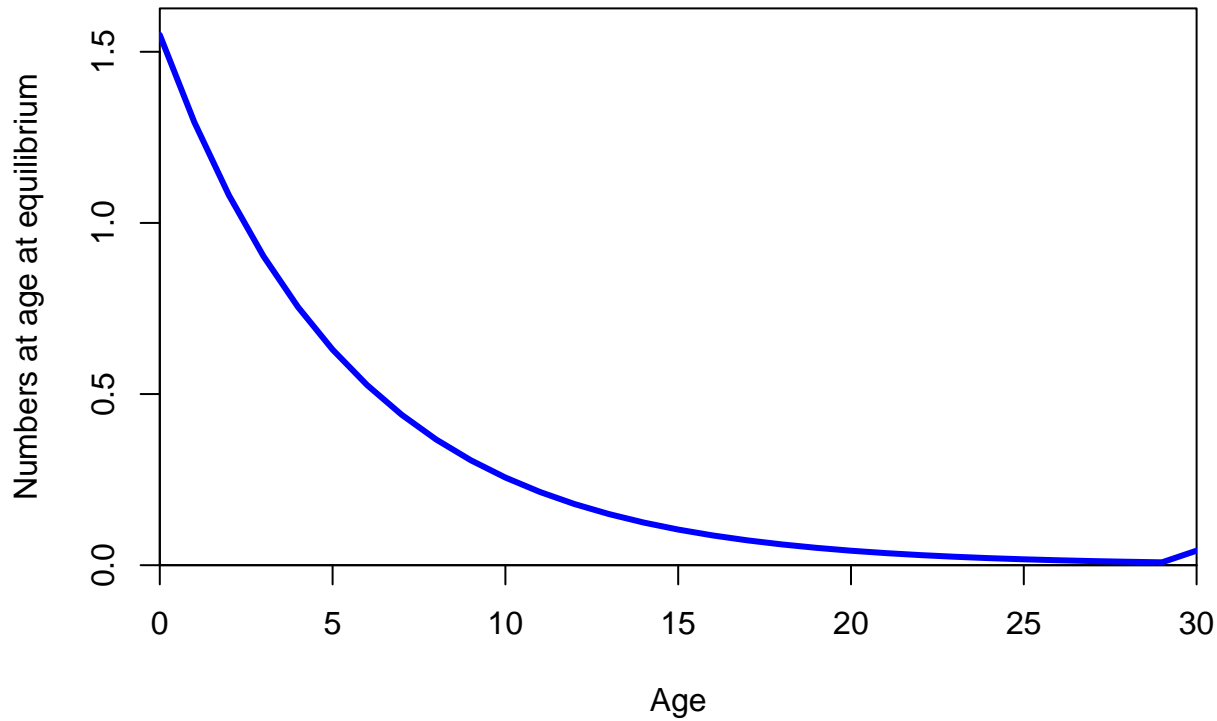


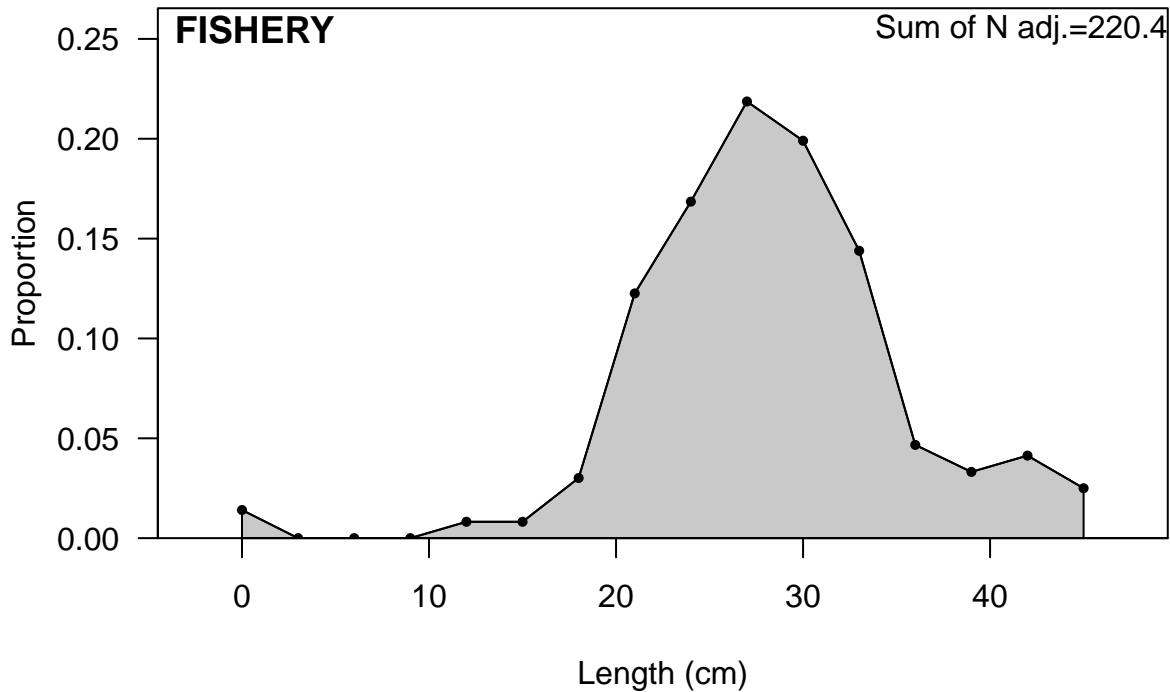


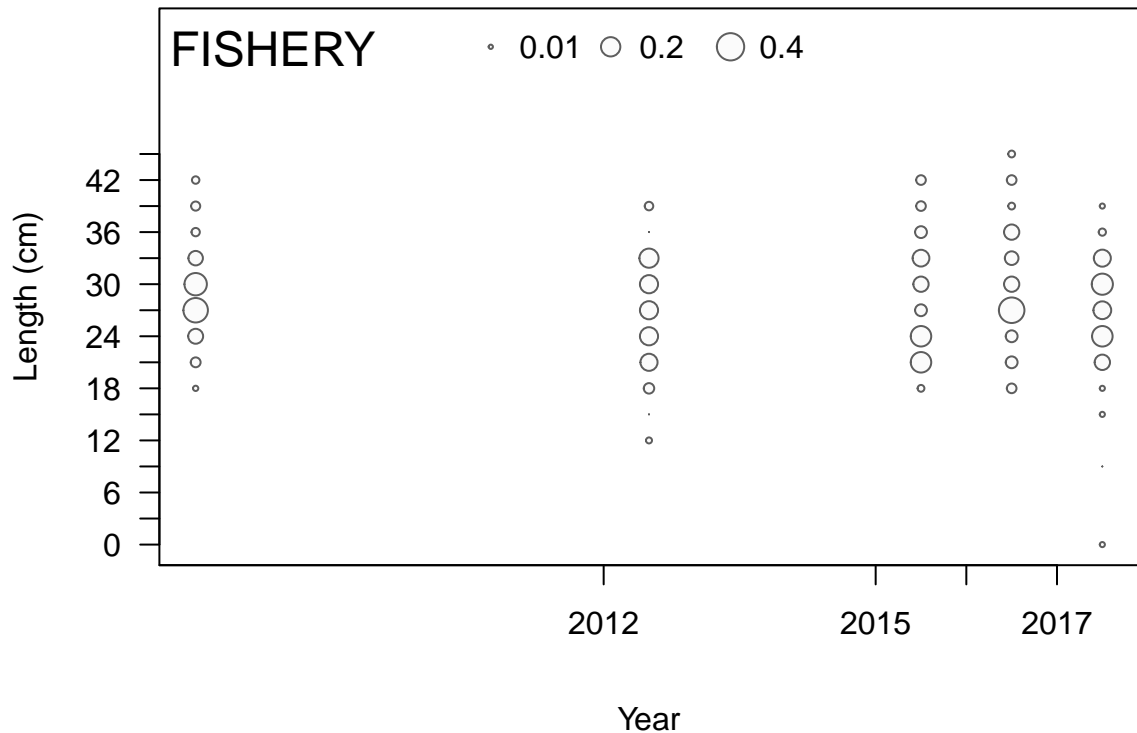




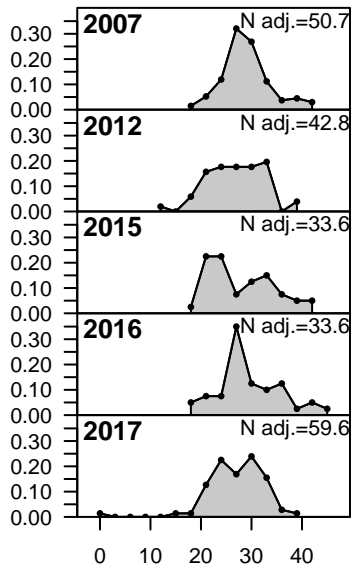




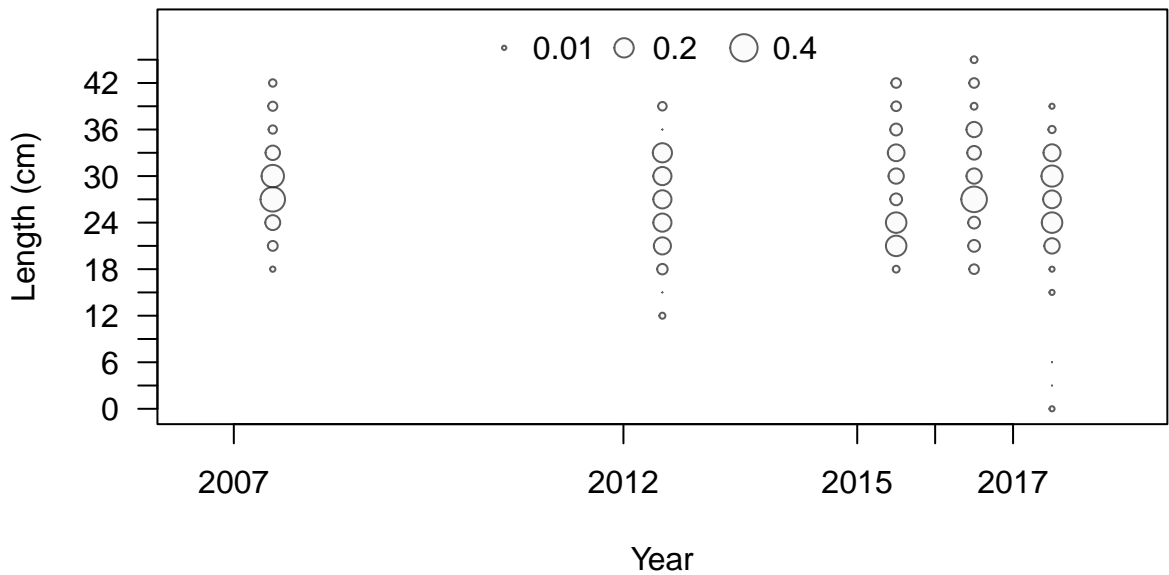




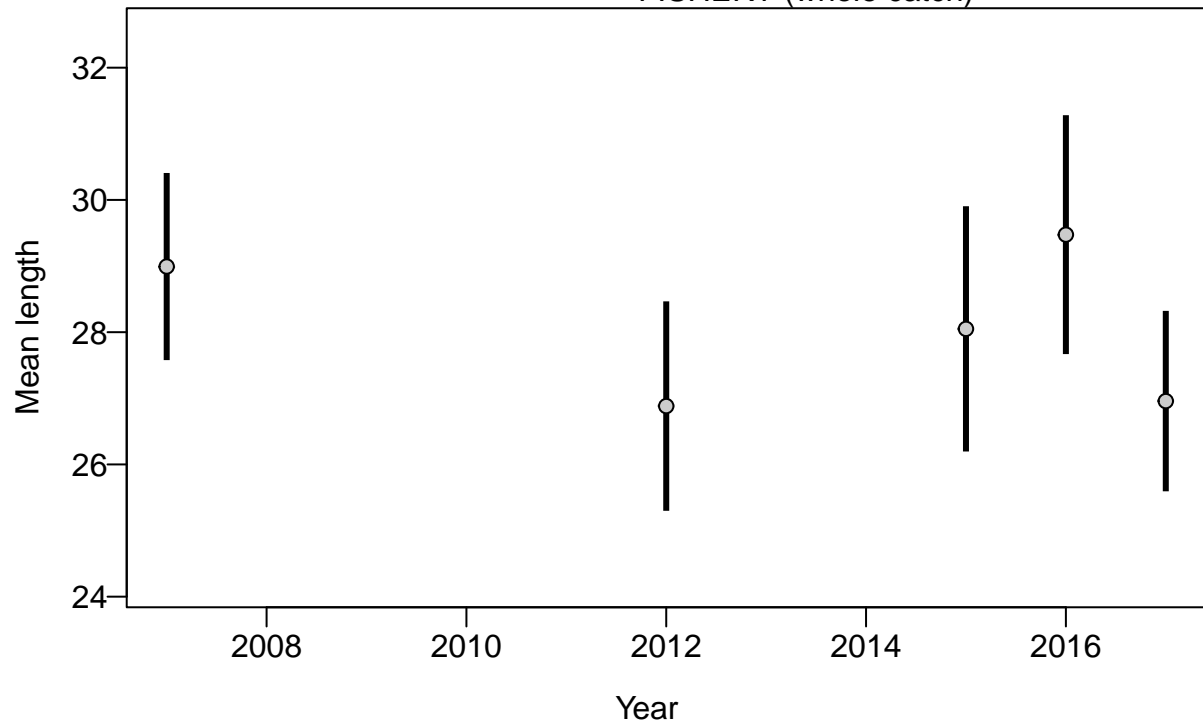
Proportion



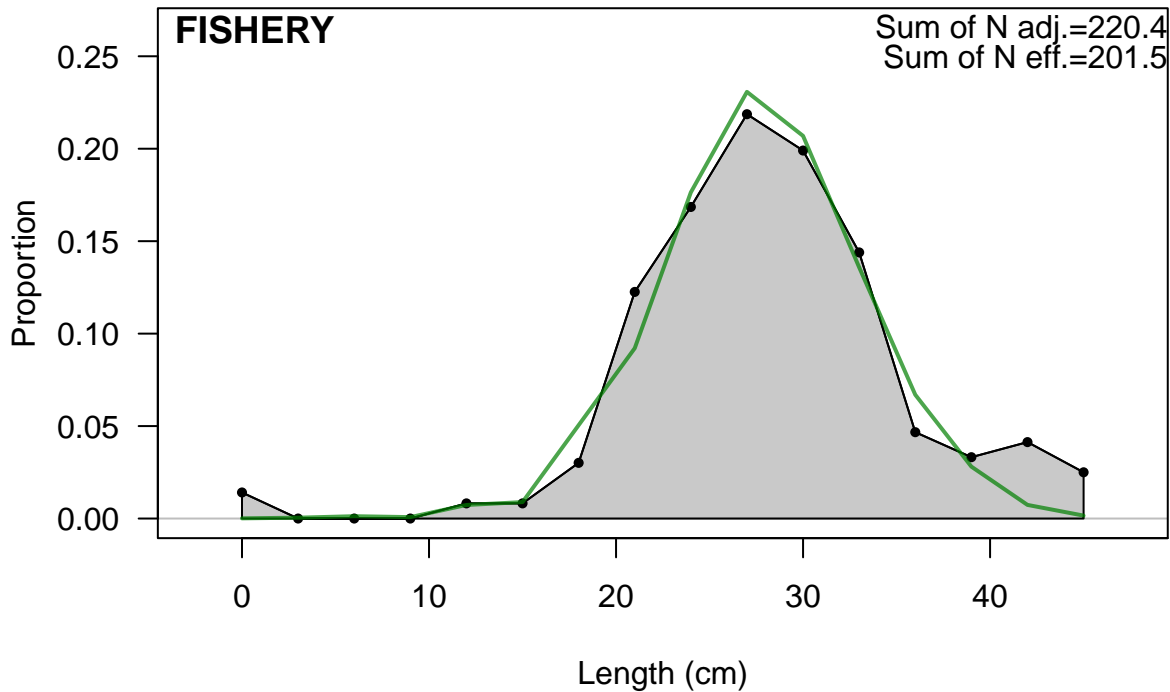
Length (cm)

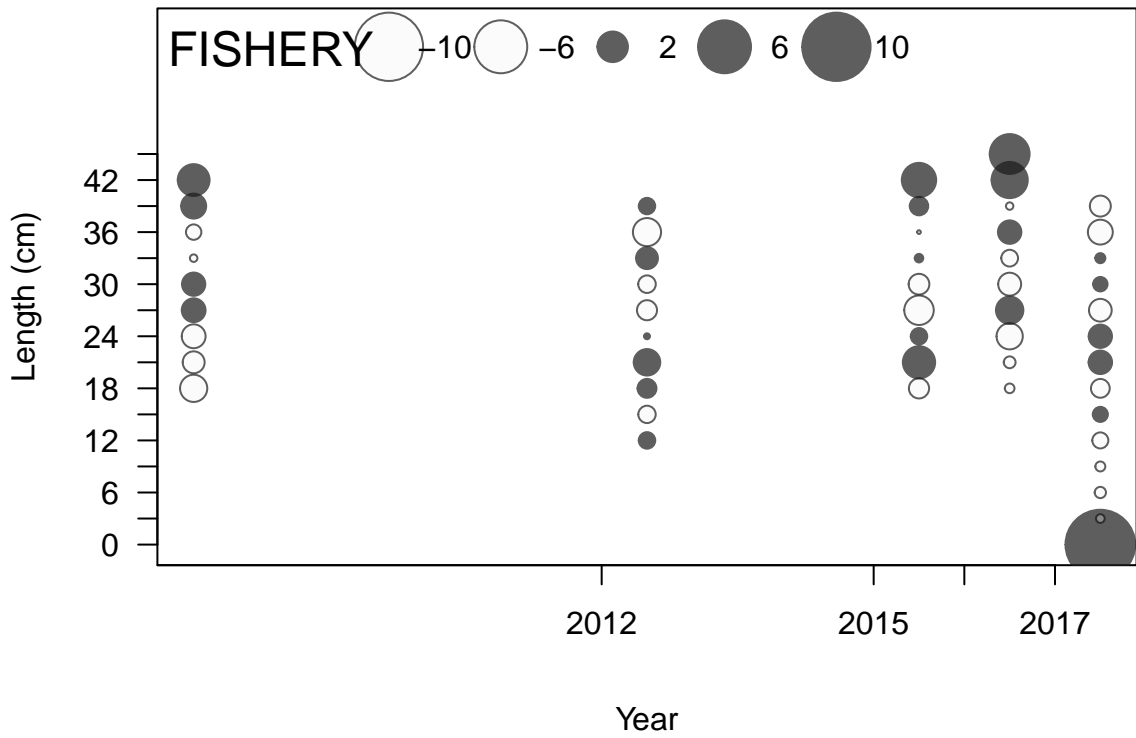


# FISHERY (whole catch)

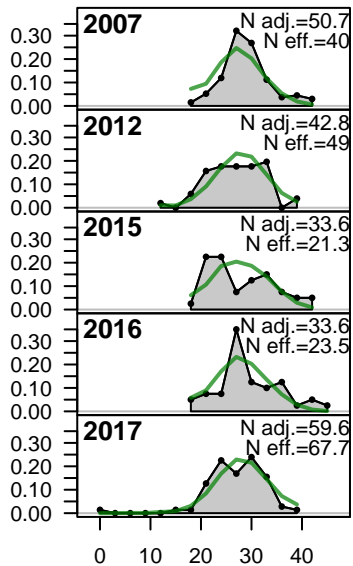




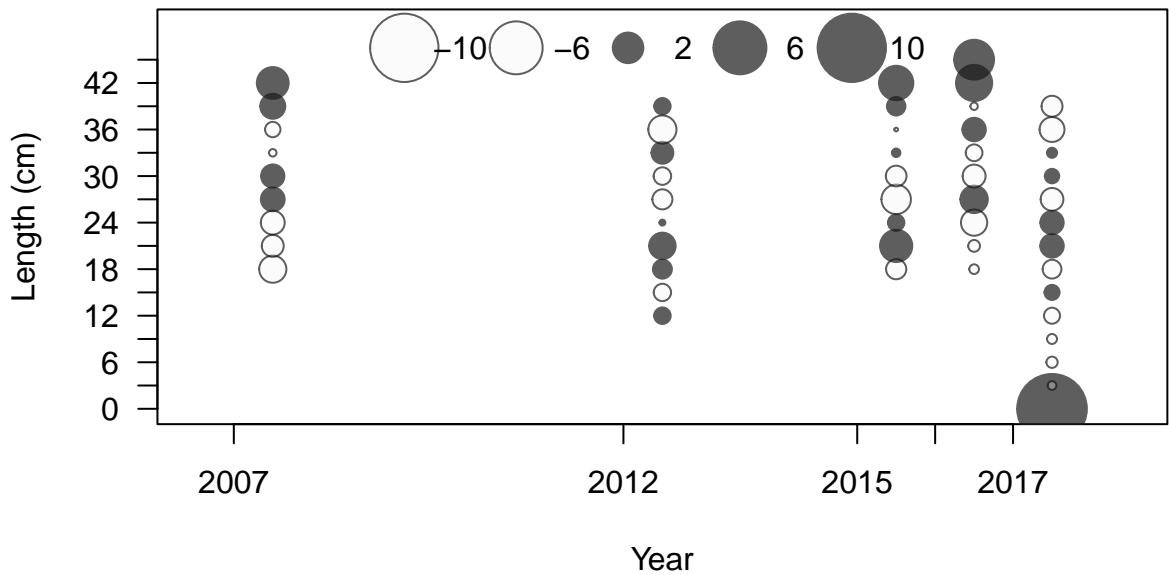




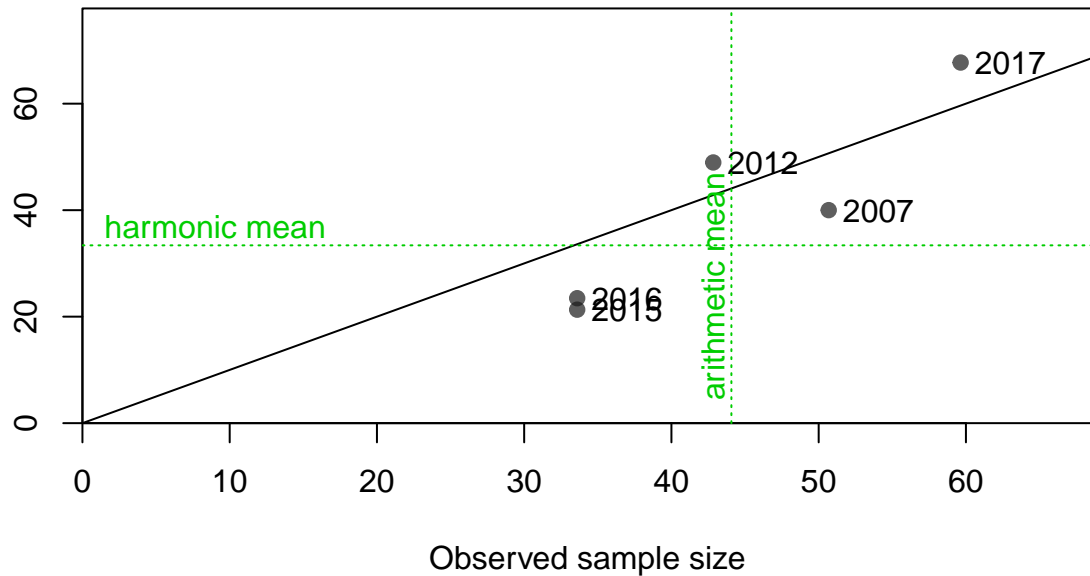
Proportion



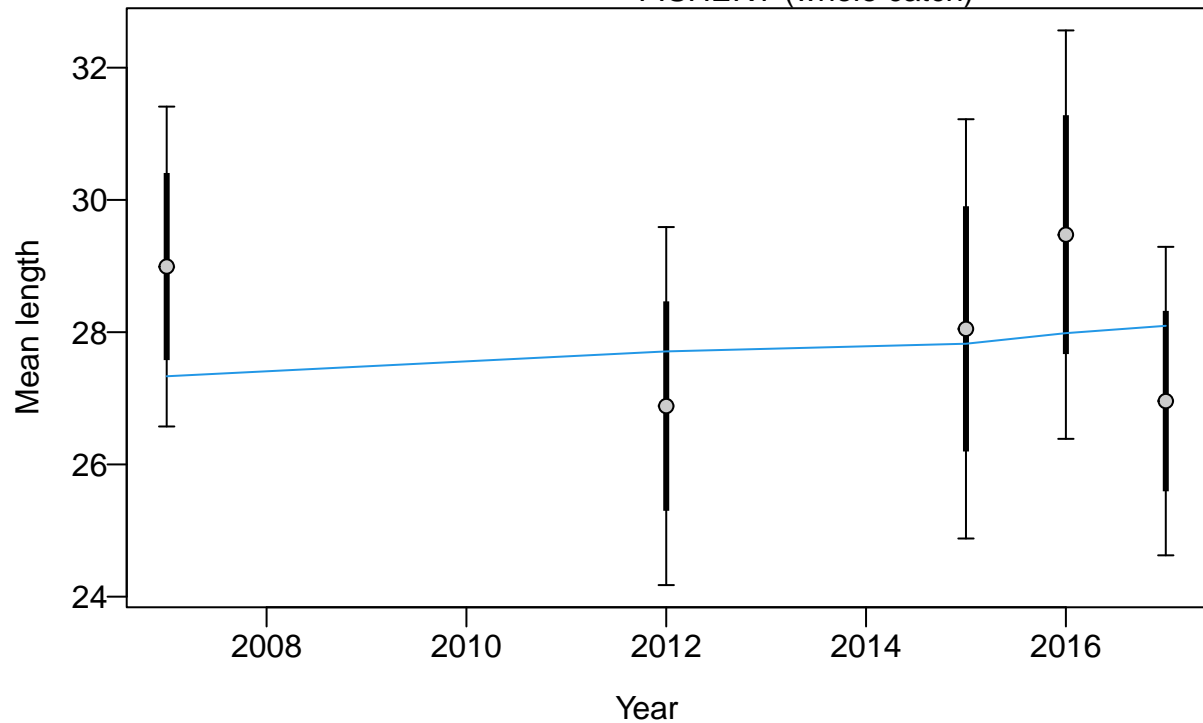
Length (cm)

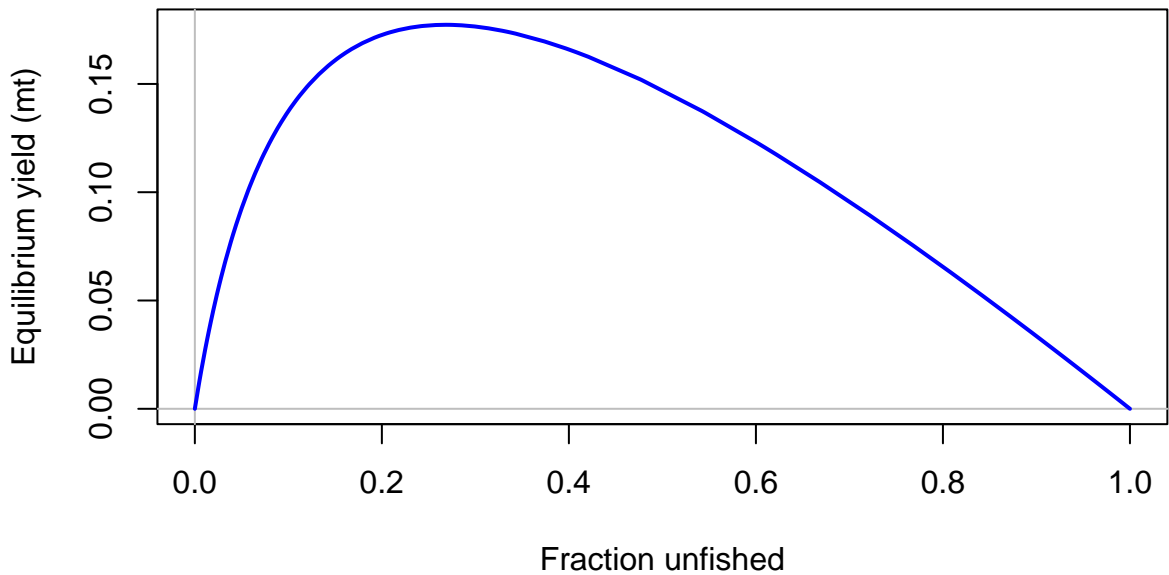


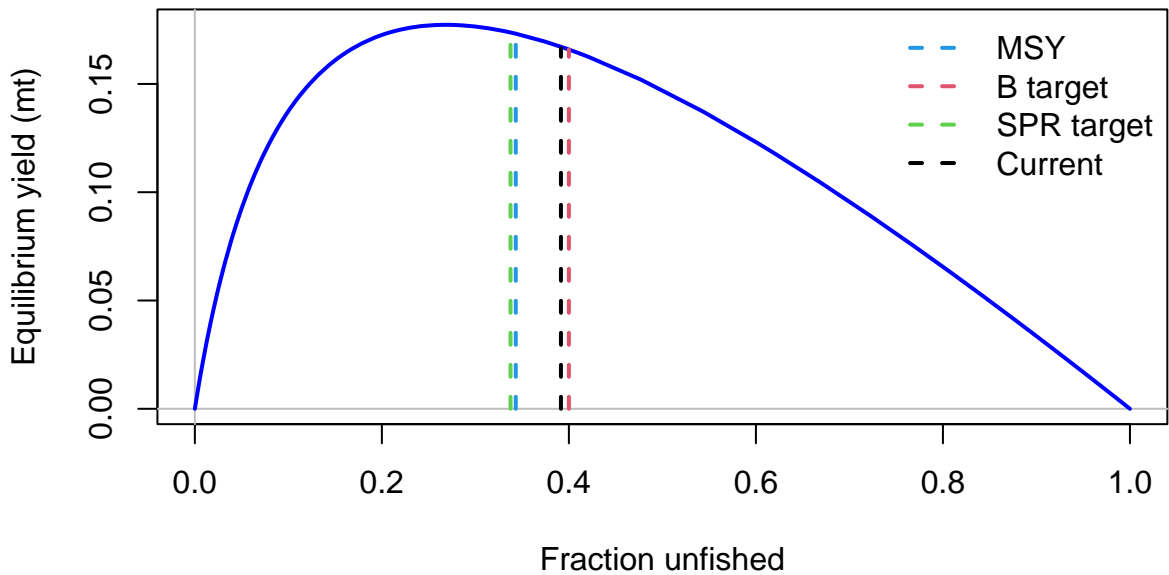
Effective sample size



FISHERY (whole catch)

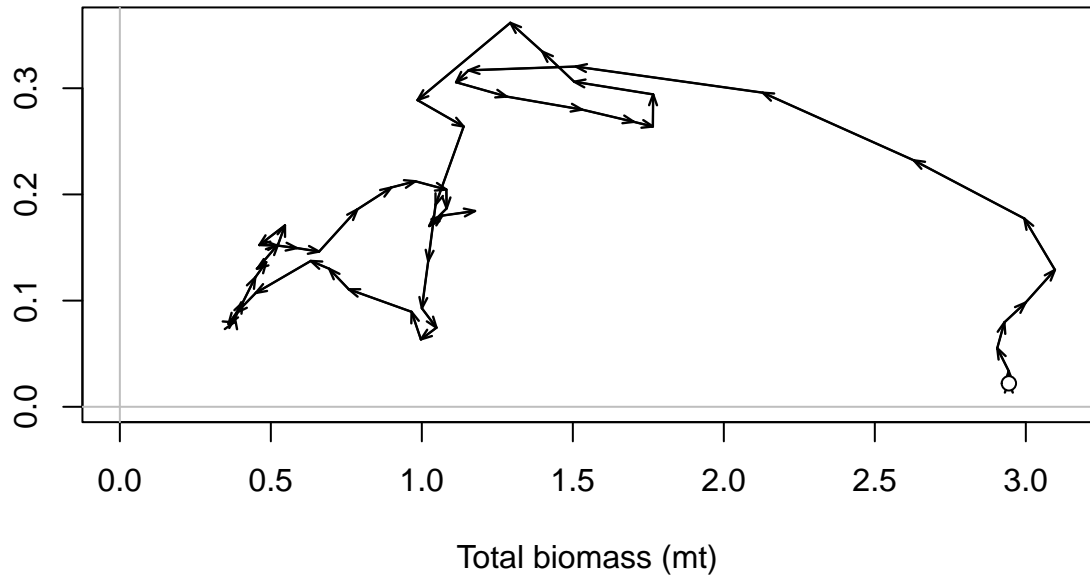


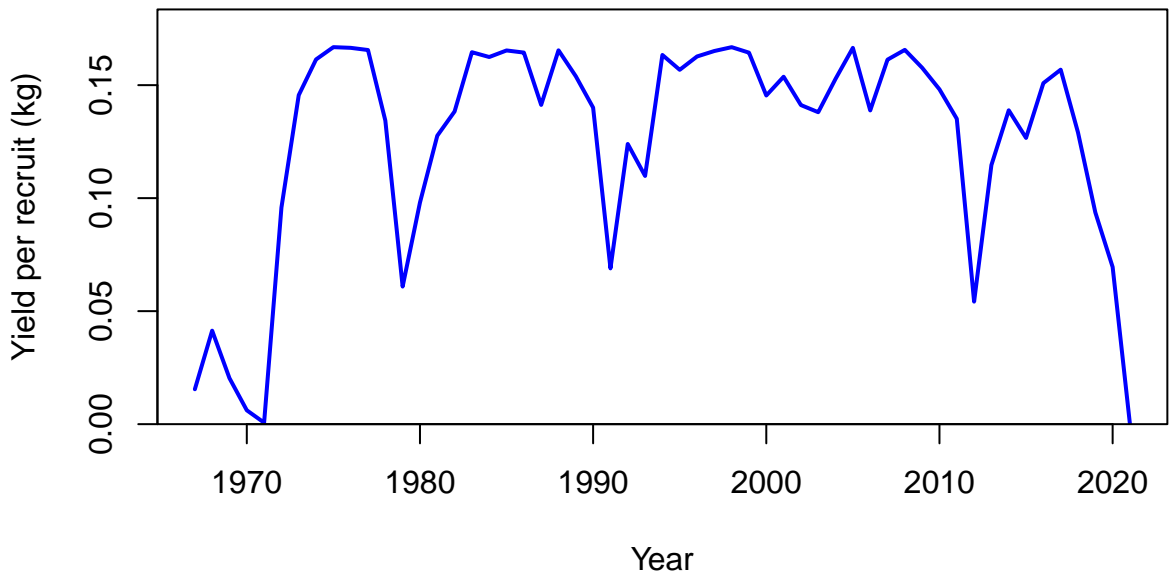


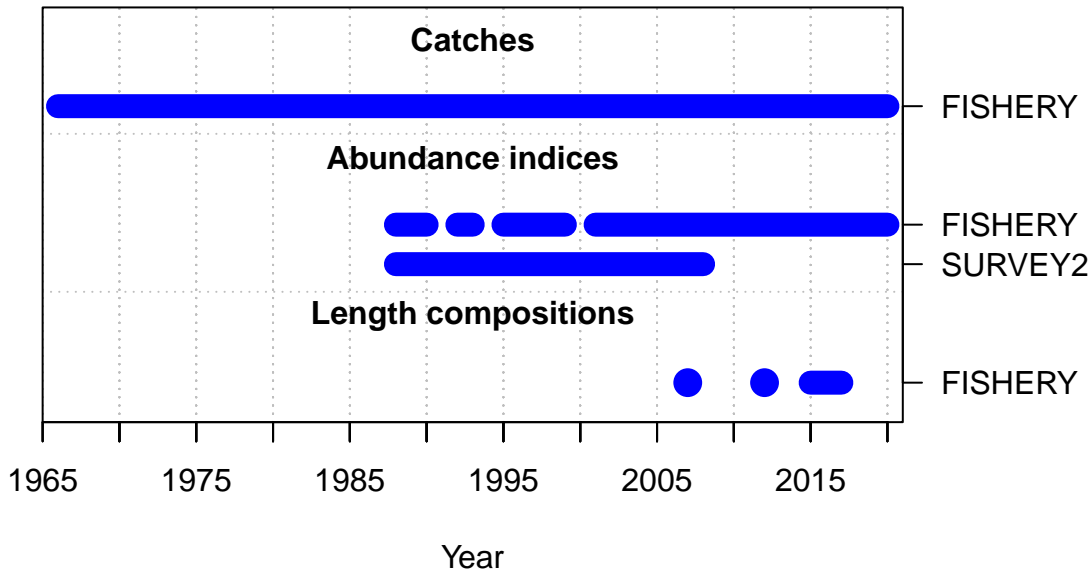


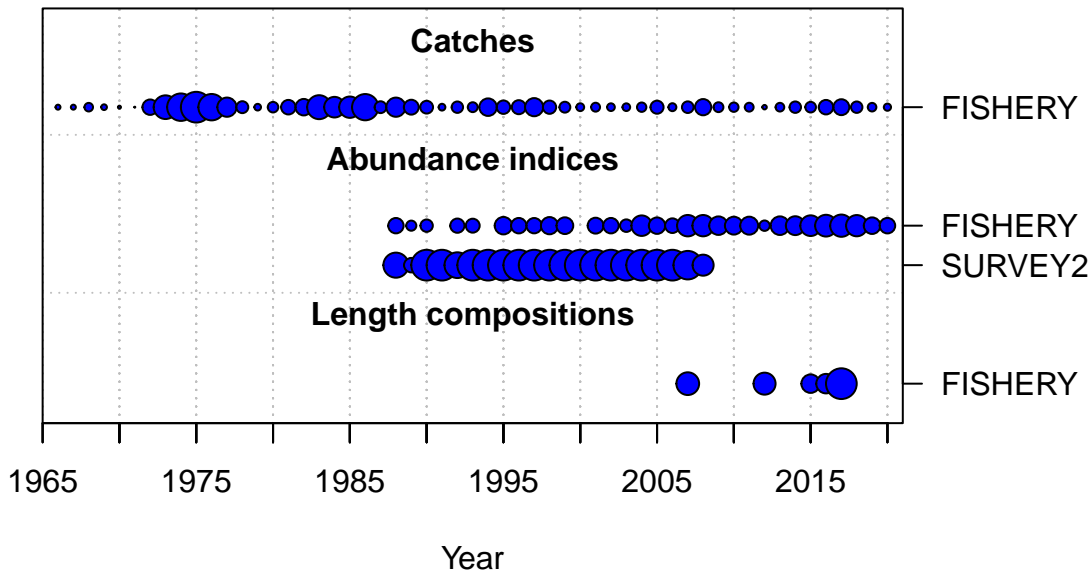


Surplus production (mt)

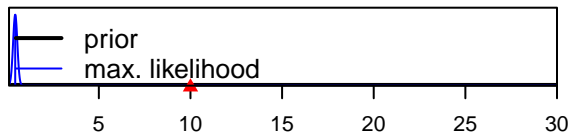




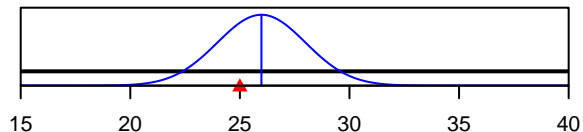




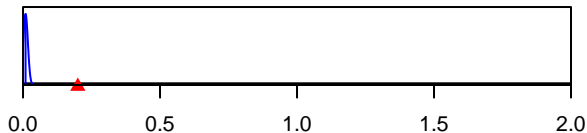
SR\_LN(R0)



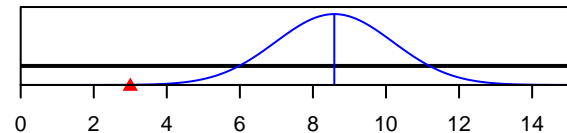
Size\_inflection\_FISHERY(1)



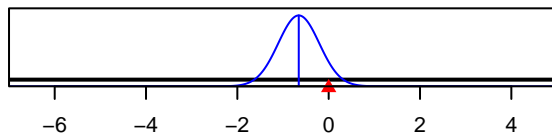
InitF\_seas\_1flt\_1FISHERY



Size\_95%width\_FISHERY(1)



LnQ\_base\_FISHERY(1)



LnQ\_base\_SURVEY2(2)

