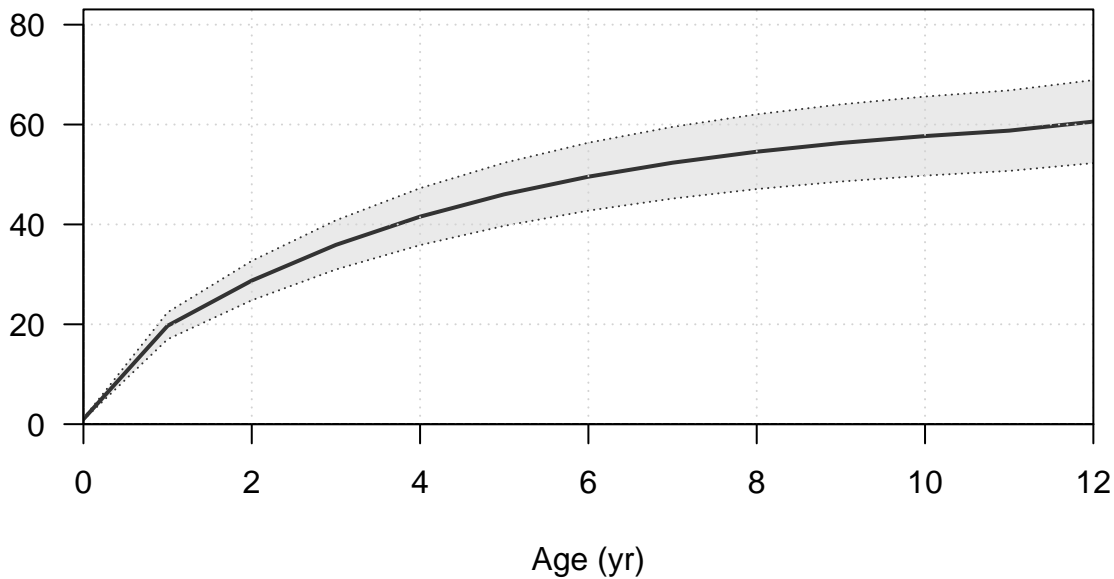
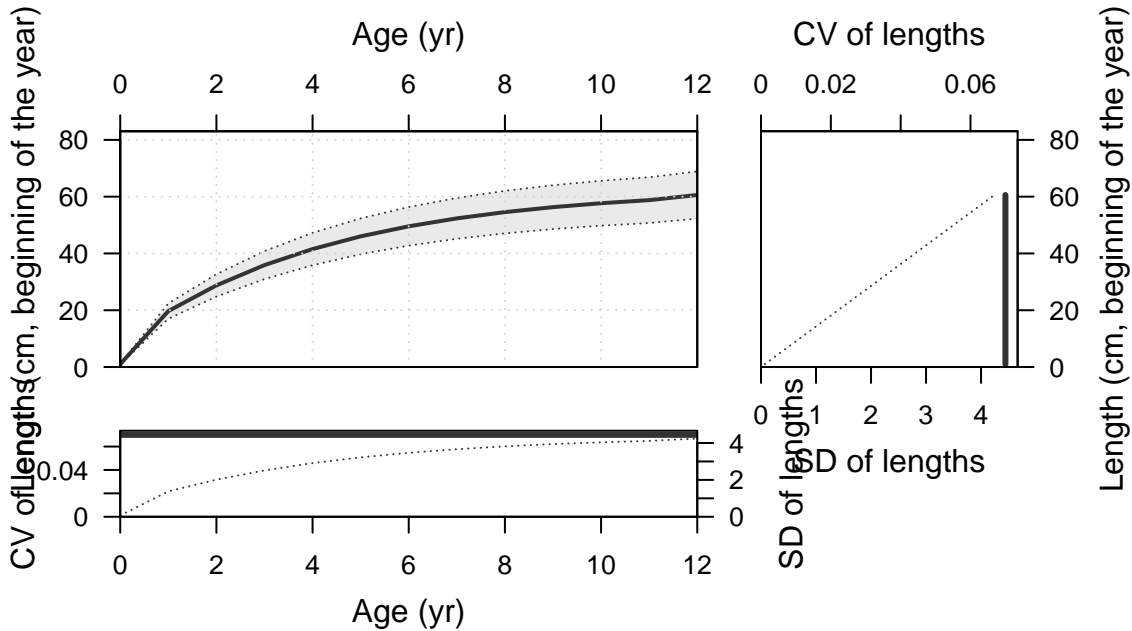
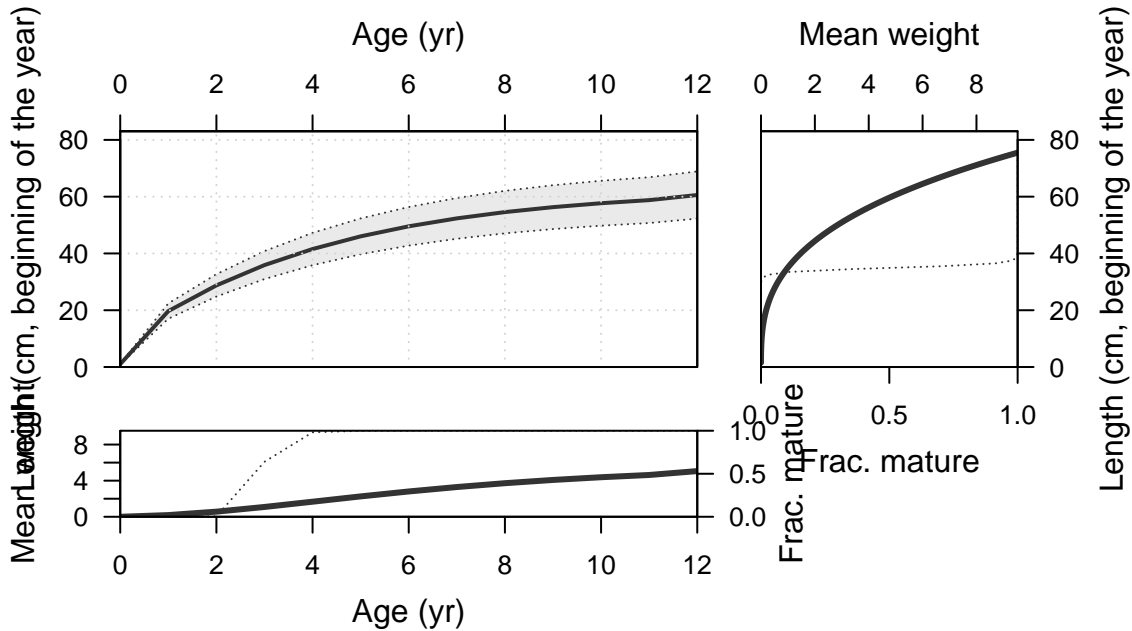


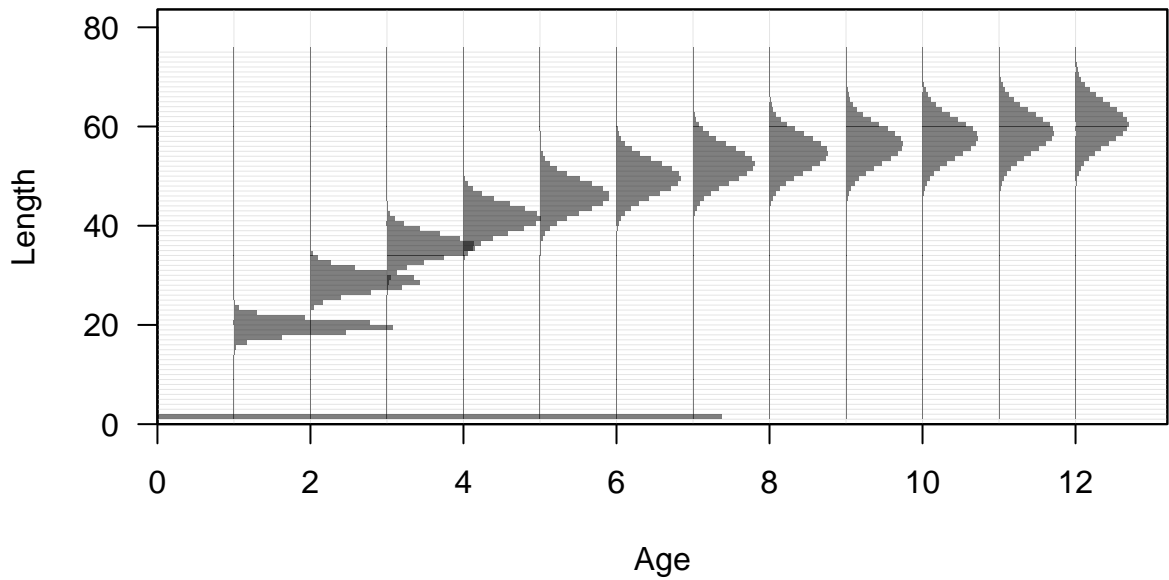
Plots created using the 'r4ss' package in R  
Stock Synthesis version: 3.30.19.0  
StartTime: Tue Aug 02 10:32:07 2022  
Data\_File: data.ss  
Control\_File: control.ss

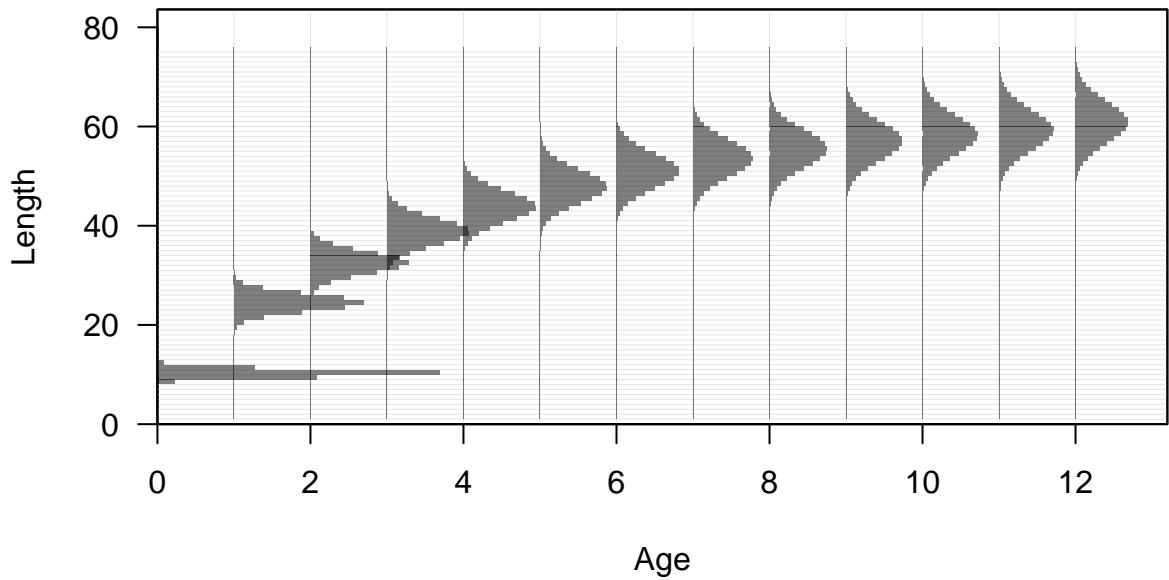
Length (cm, beginning of the year)

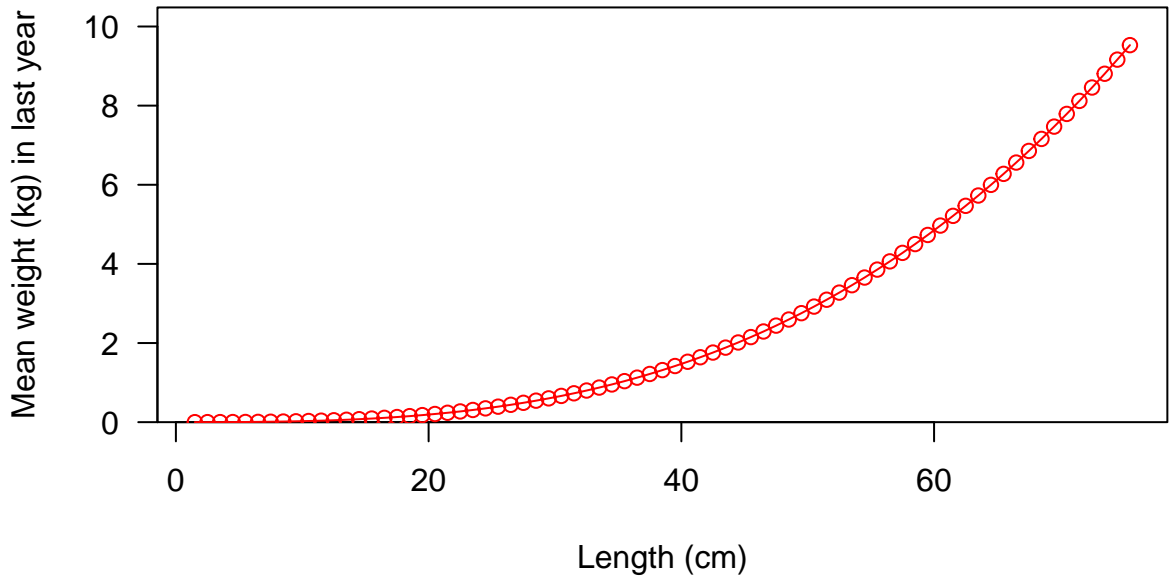


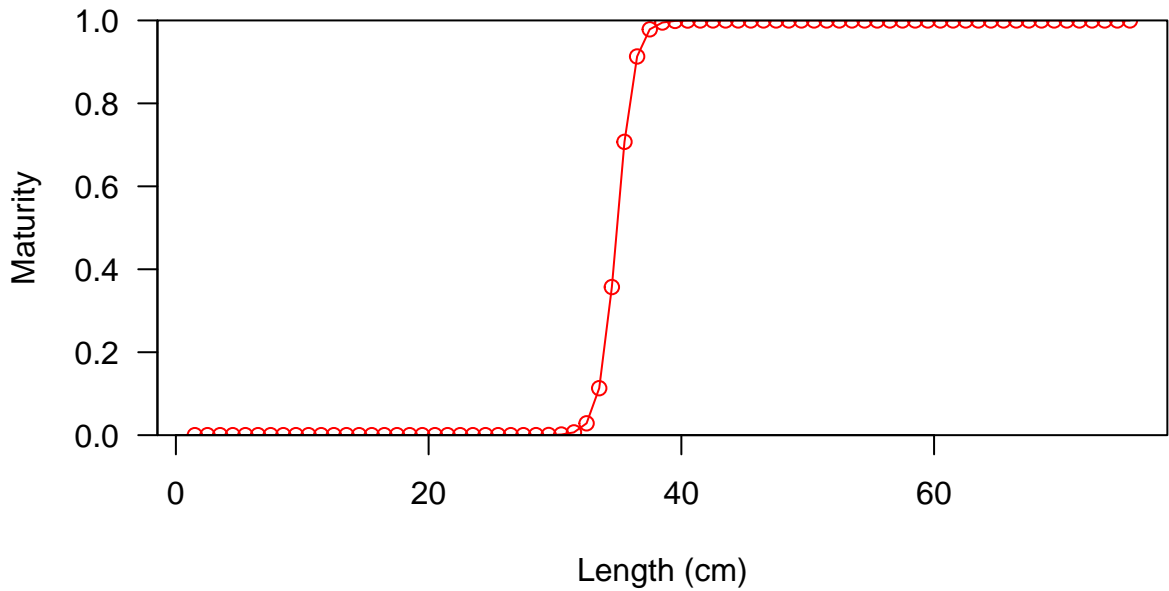




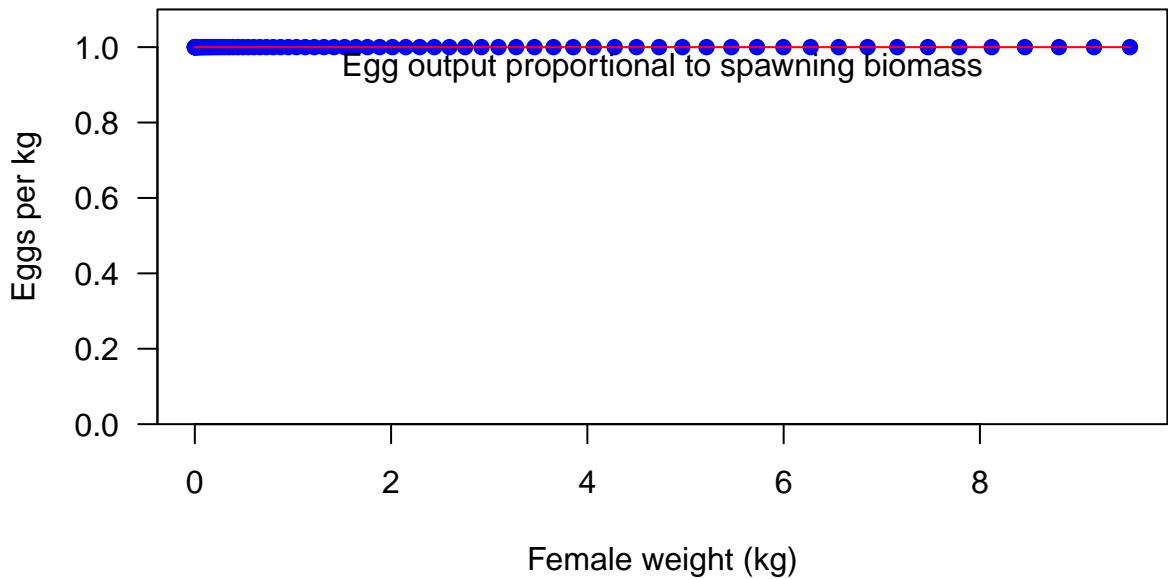




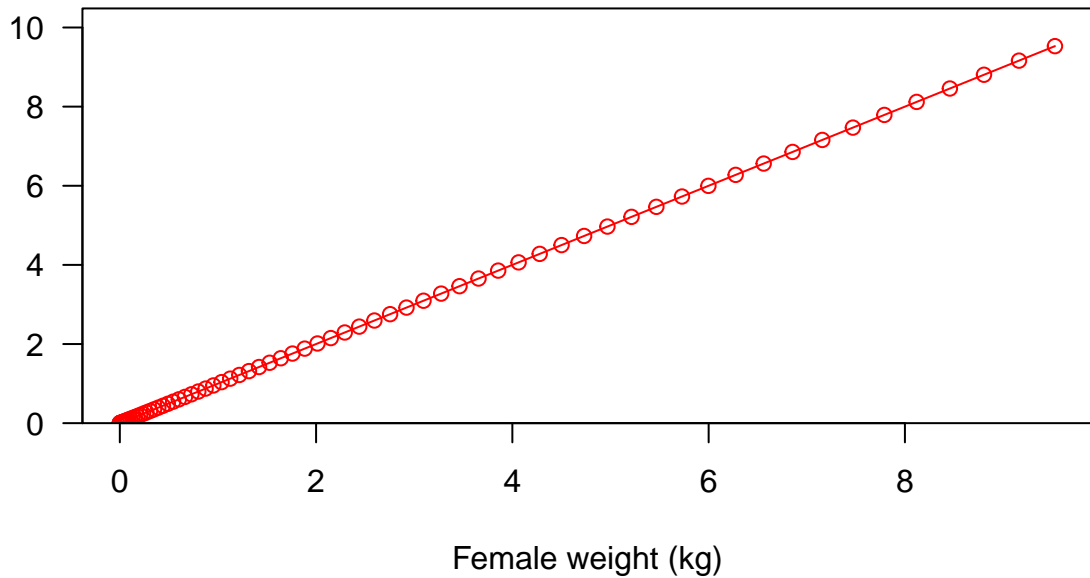




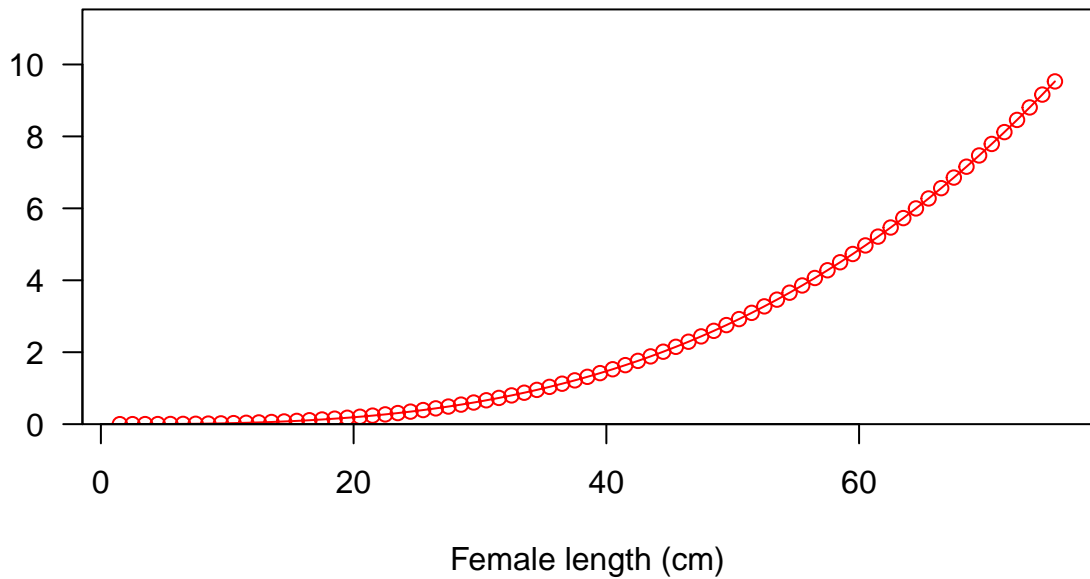




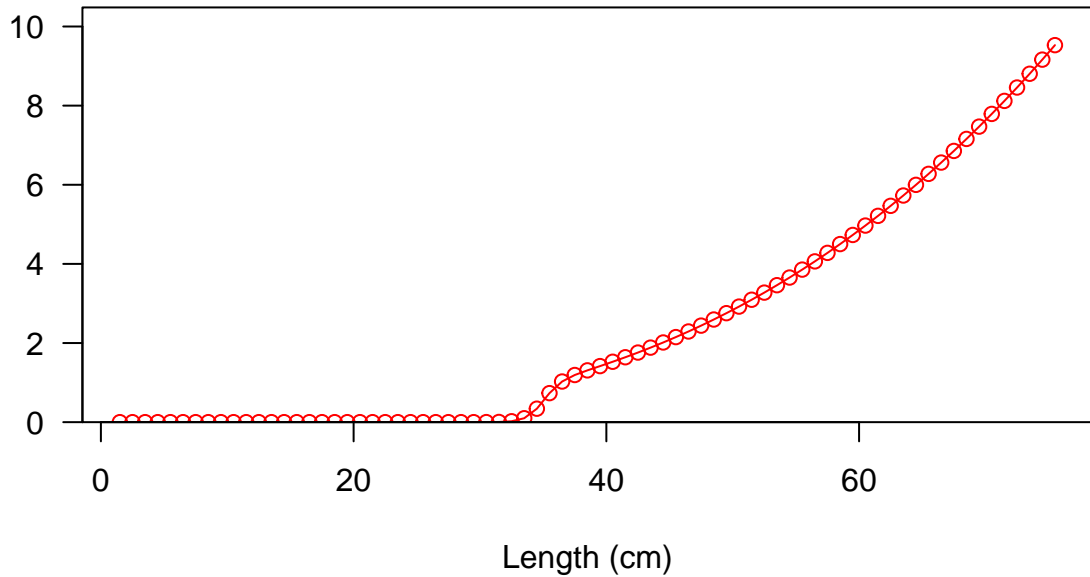
Fecundity



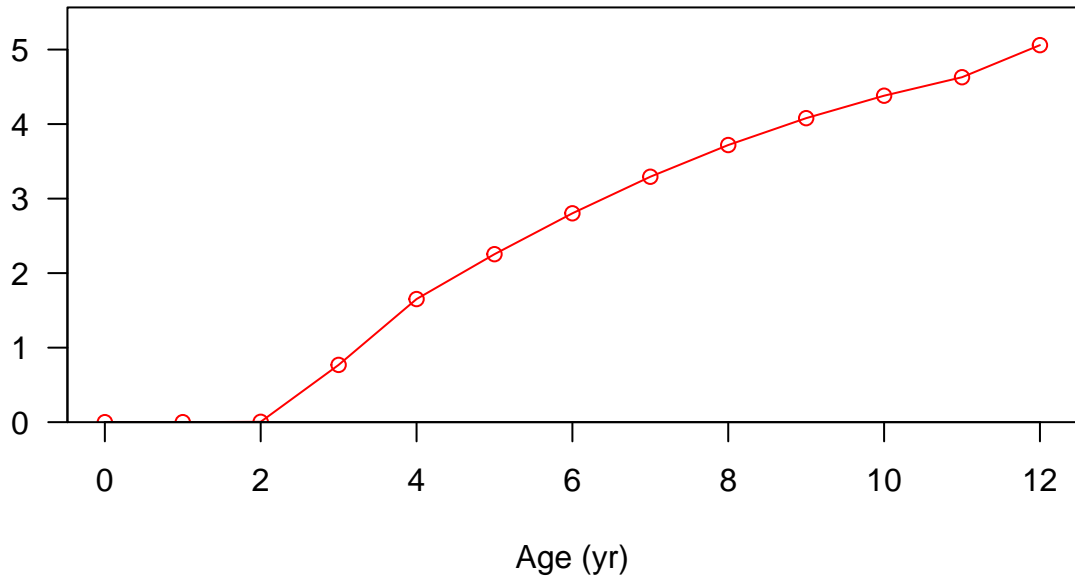
Fecundity

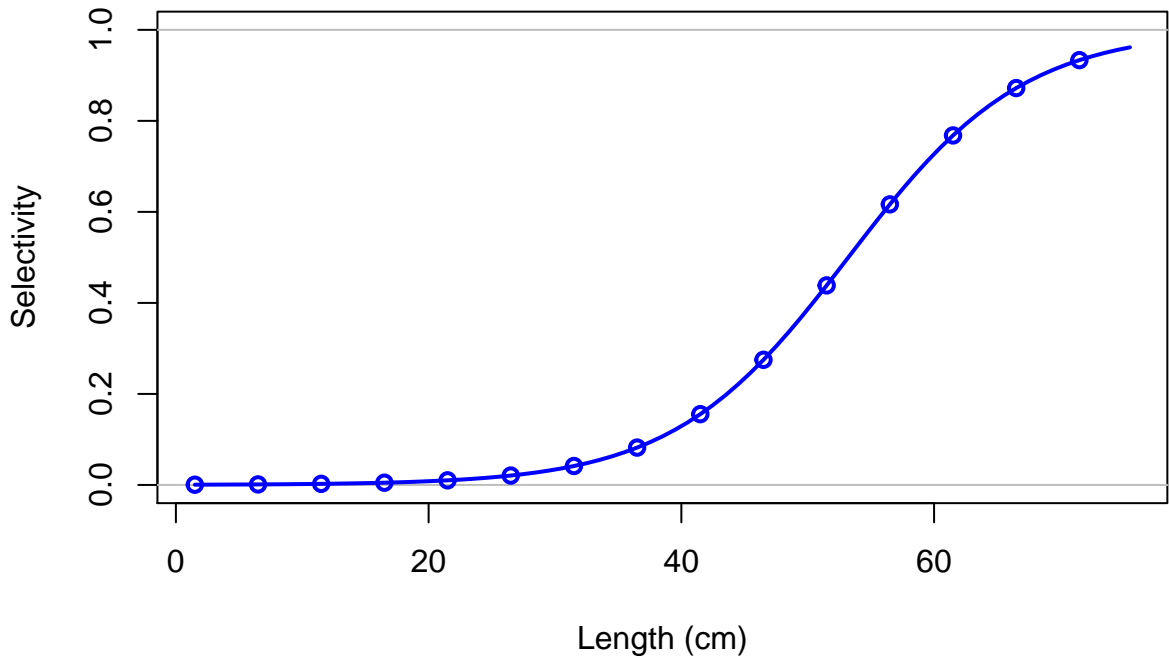


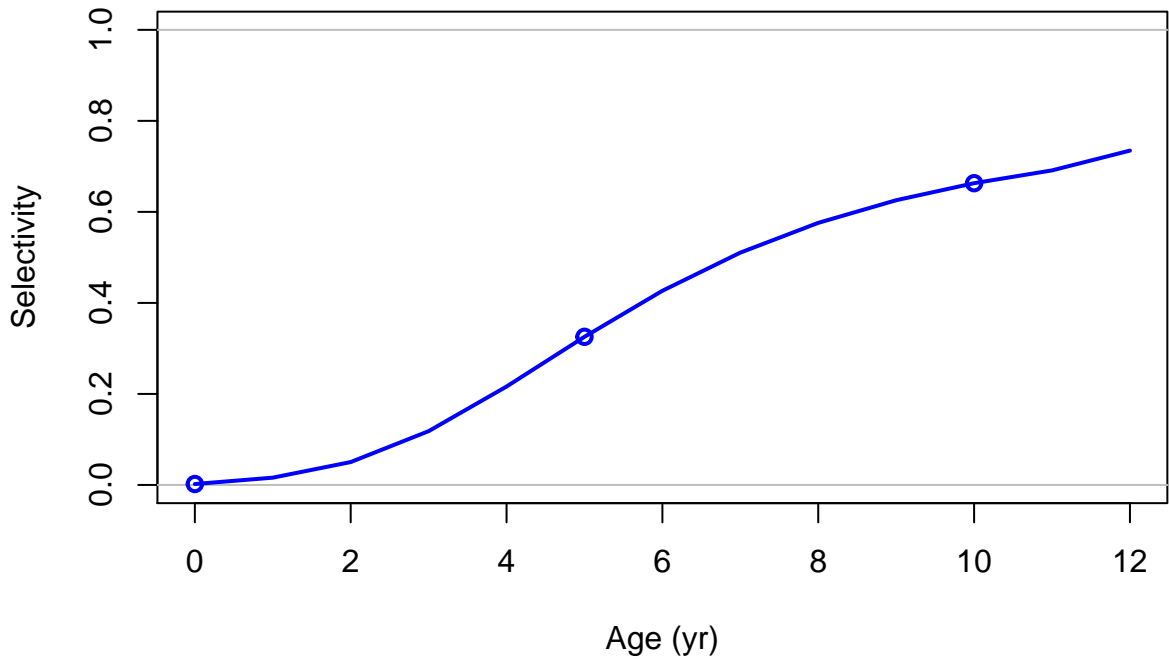
Spawning output



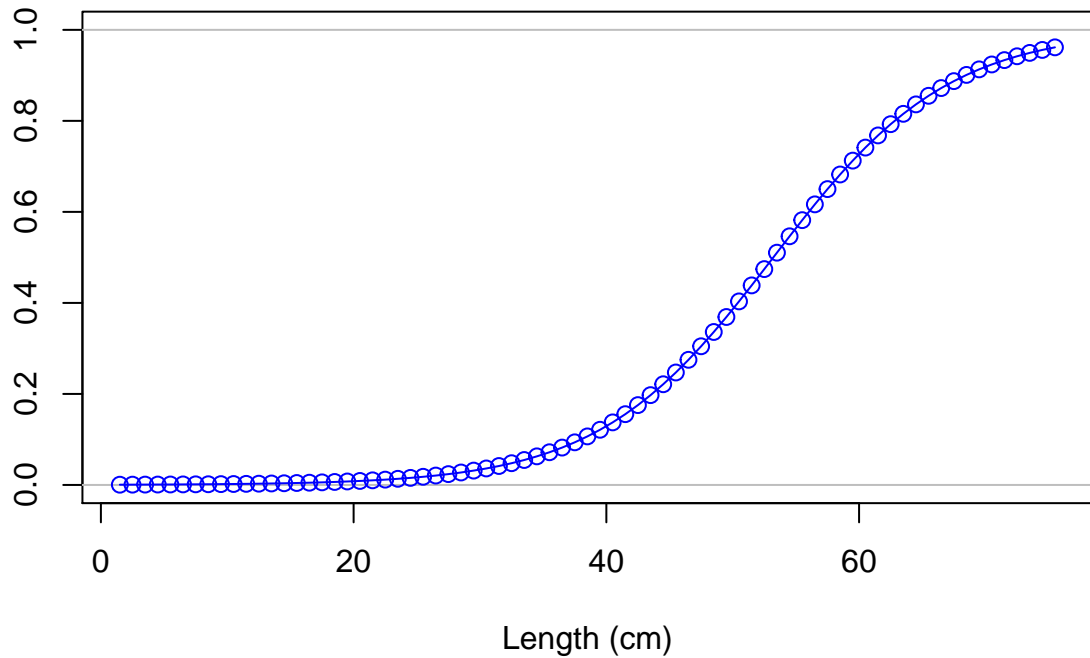
Spawning output



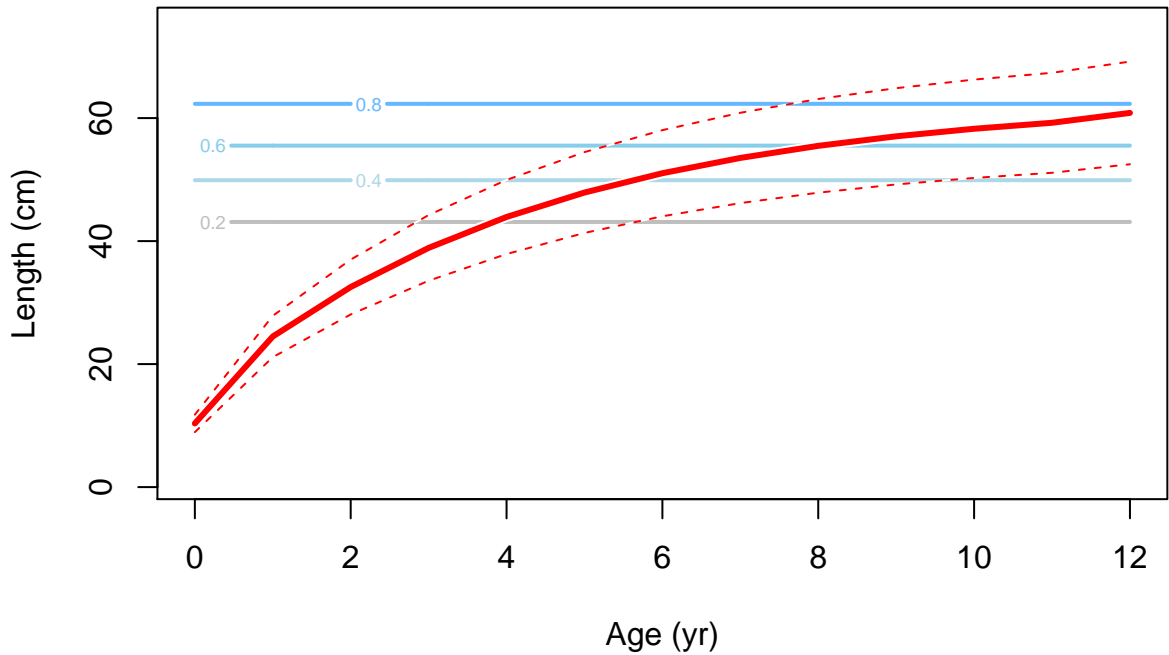


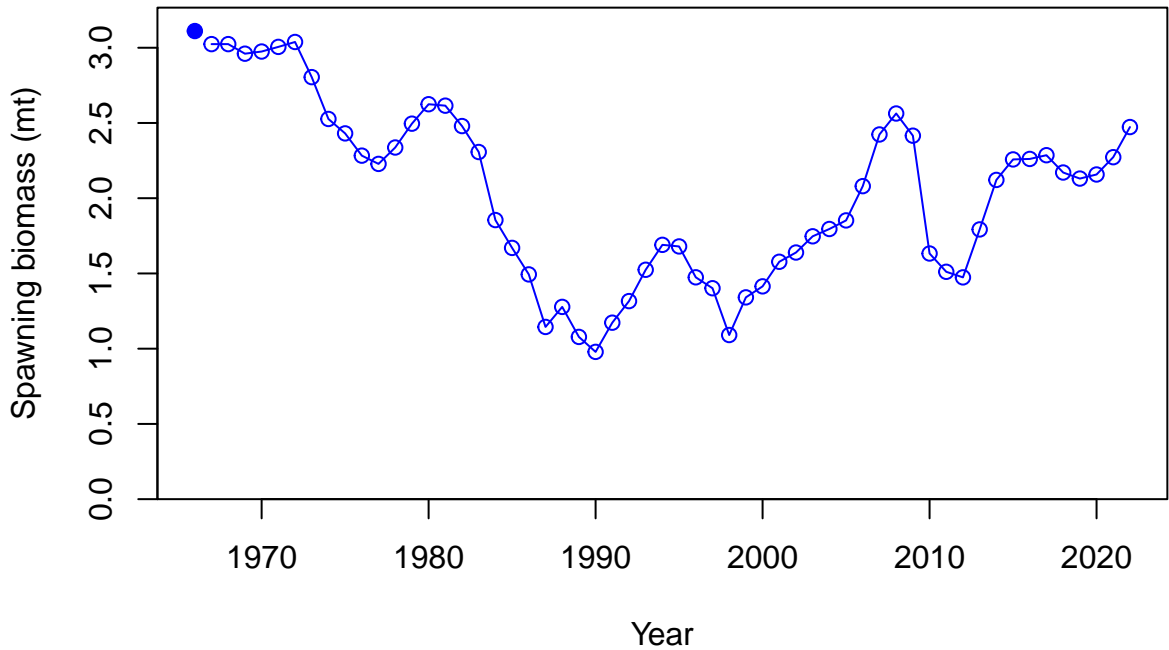


Selectivity

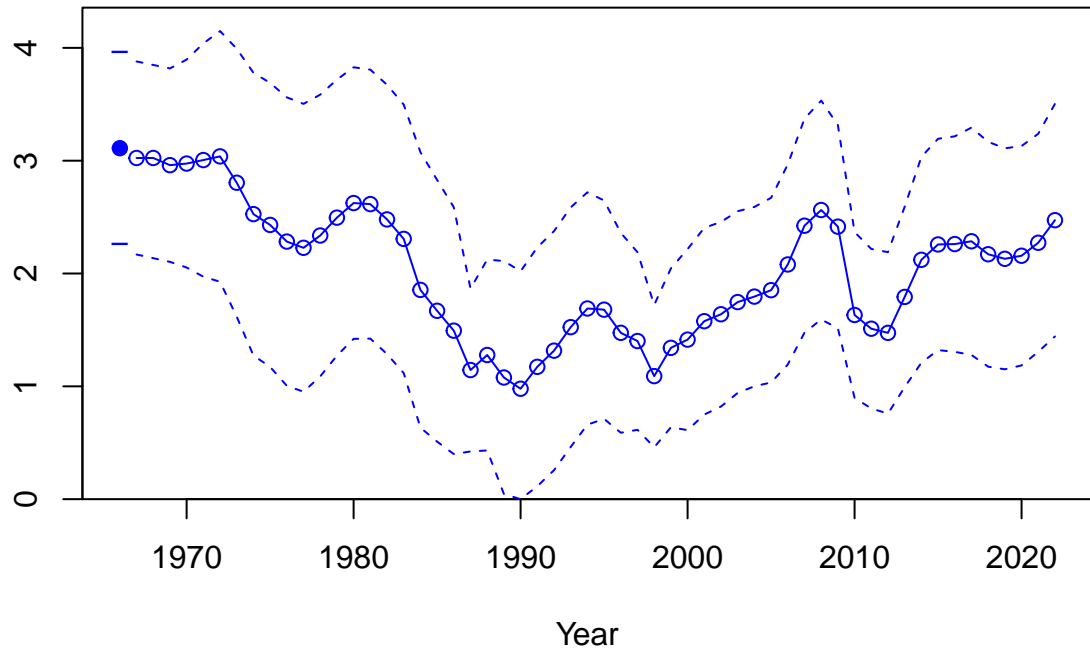




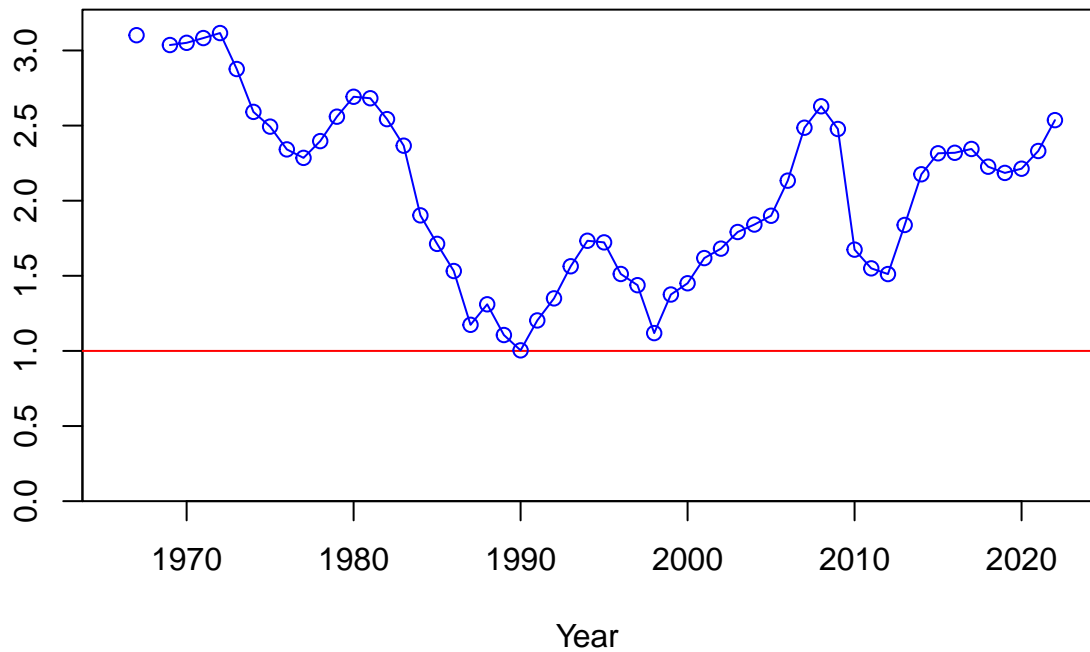




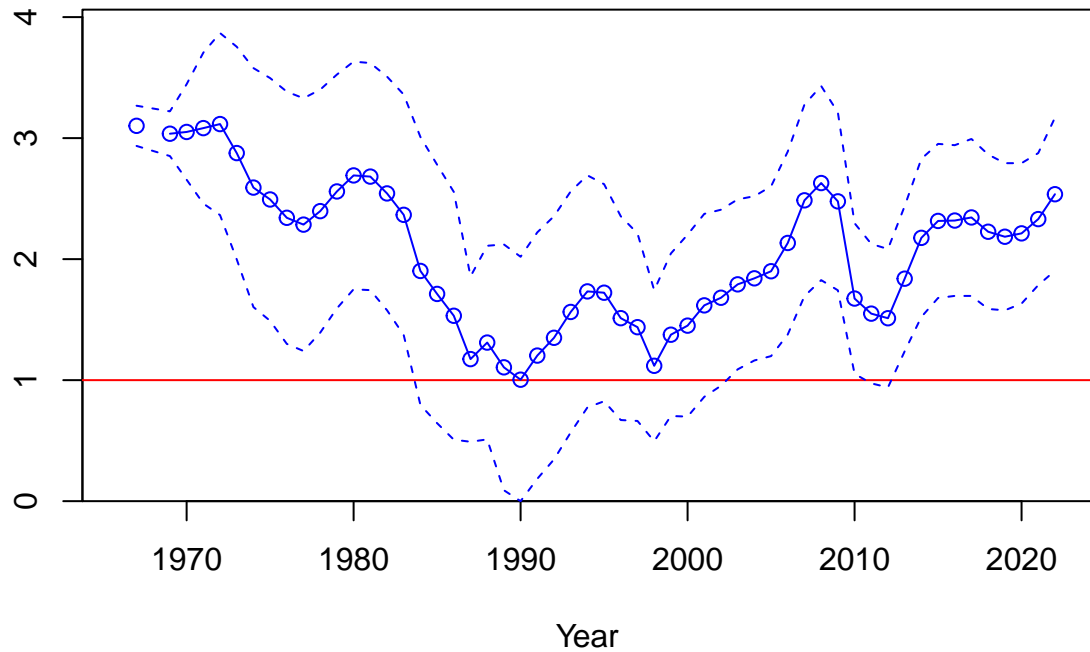
Spawning biomass (mt)

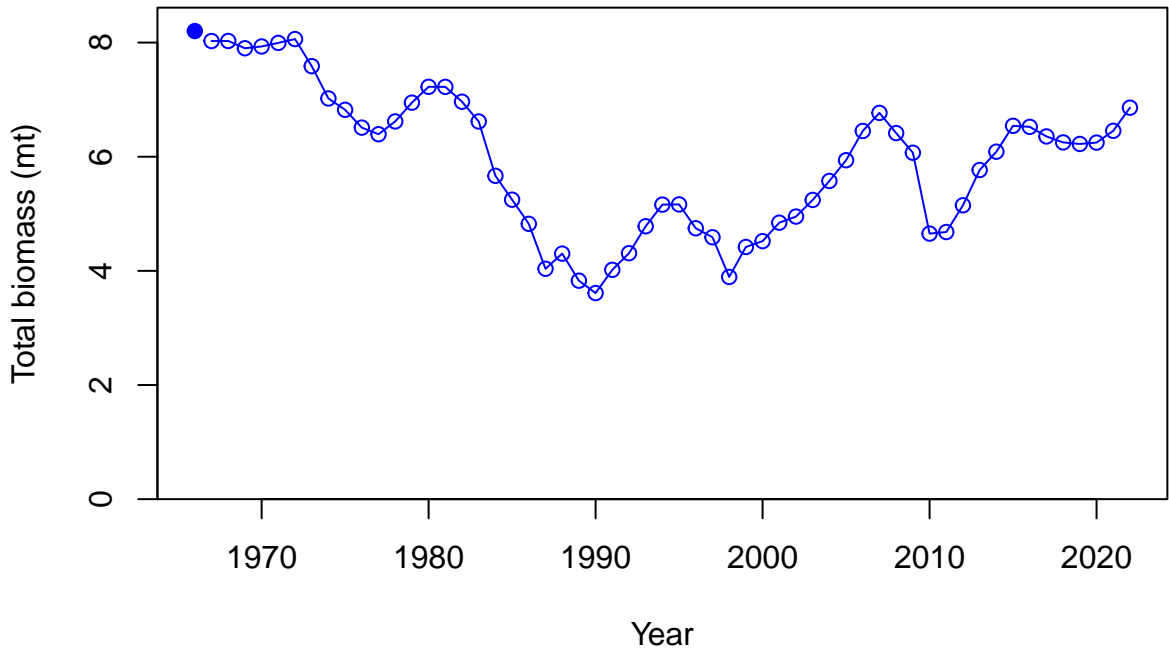


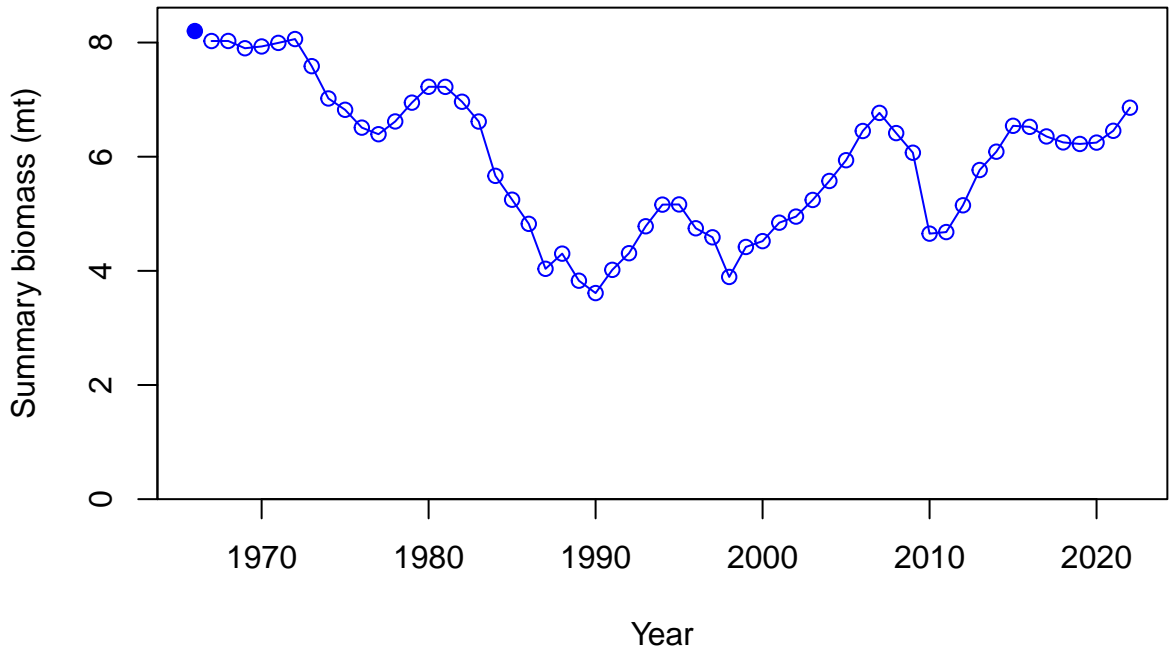
Relative spawning biomass:  $B/B_{MSY}$

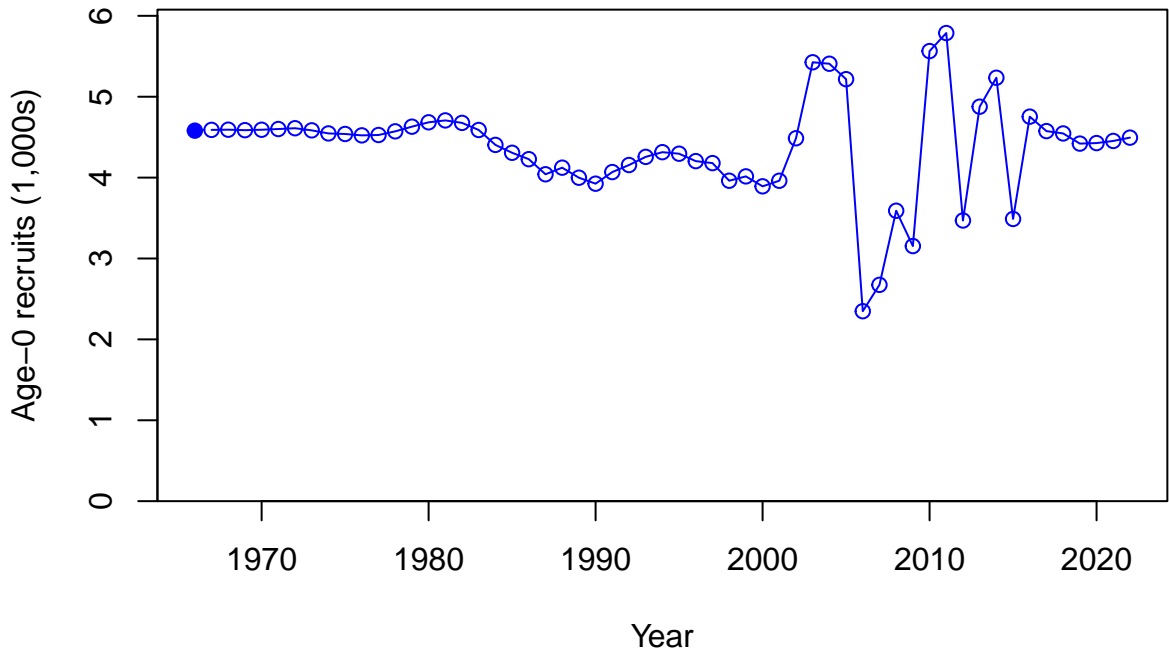


Relative spawning biomass:  $B/B_{MSY}$



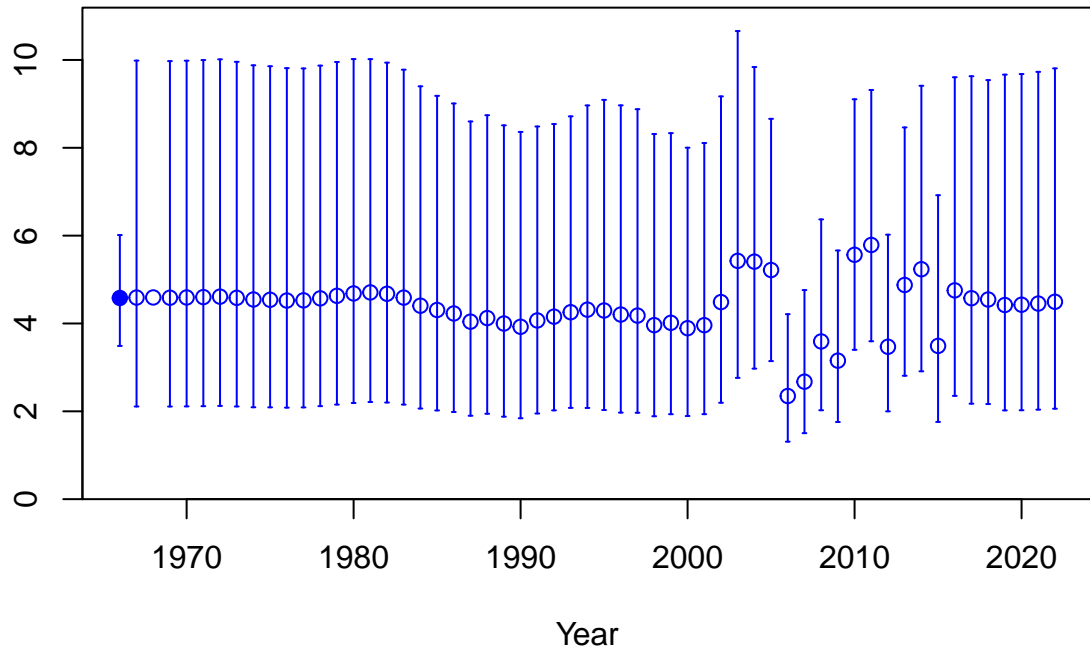




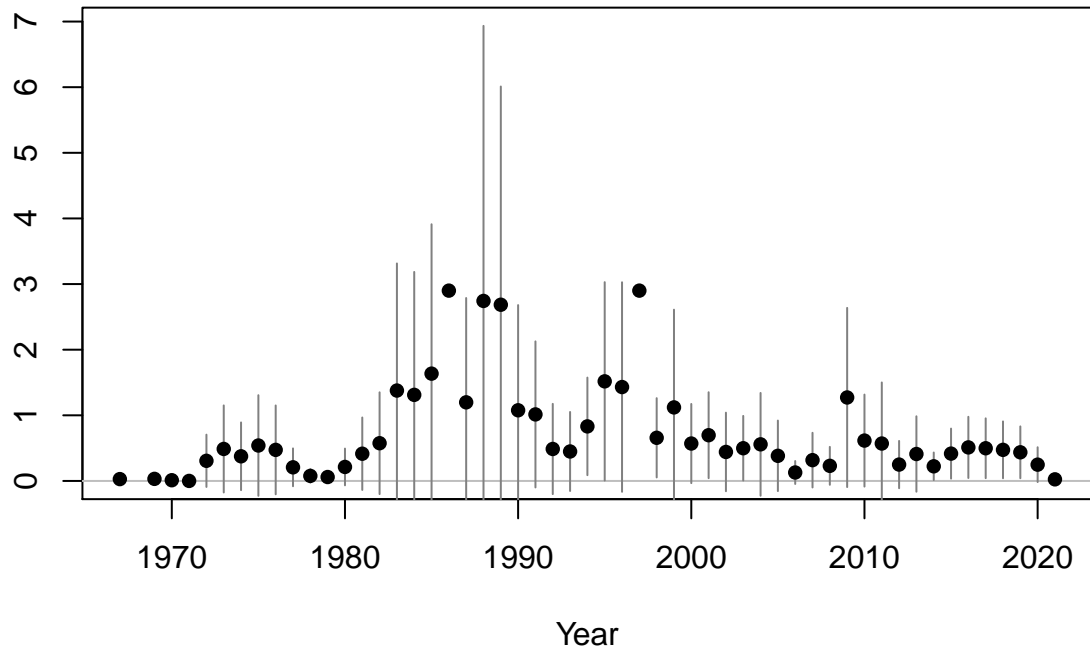


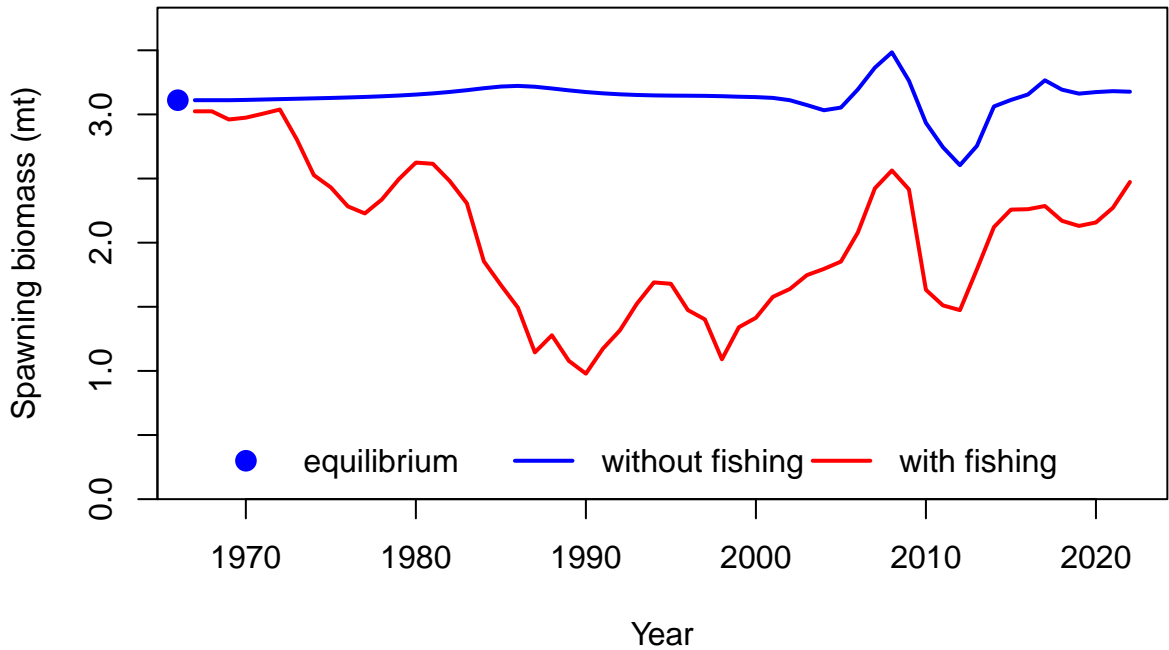


Age-0 recruits (1,000s)

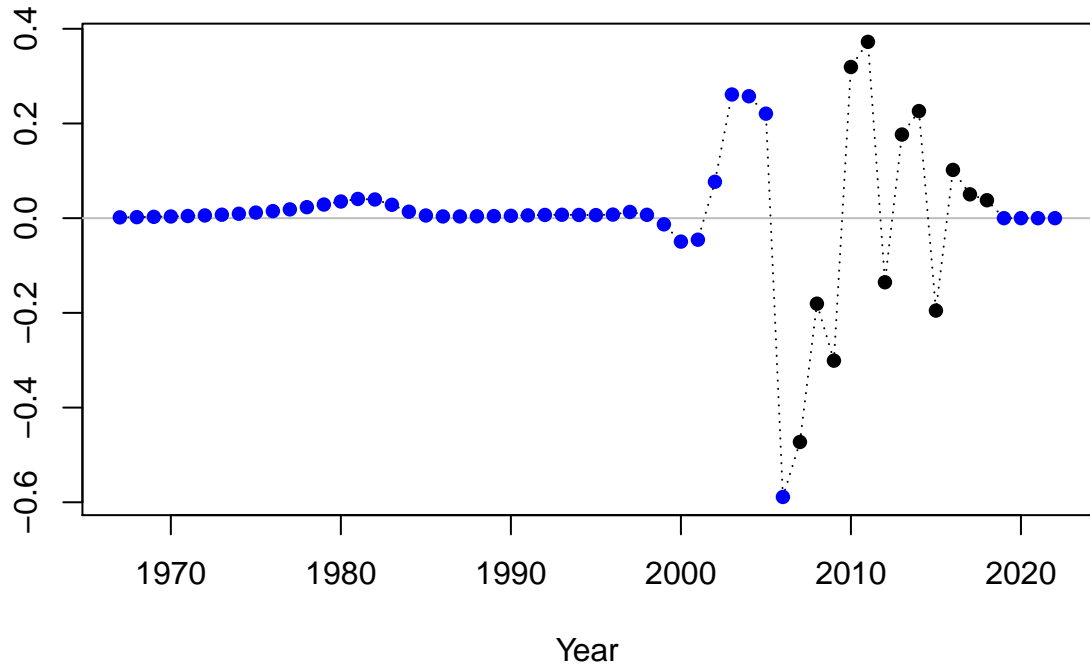


Summary Fishing Mortality

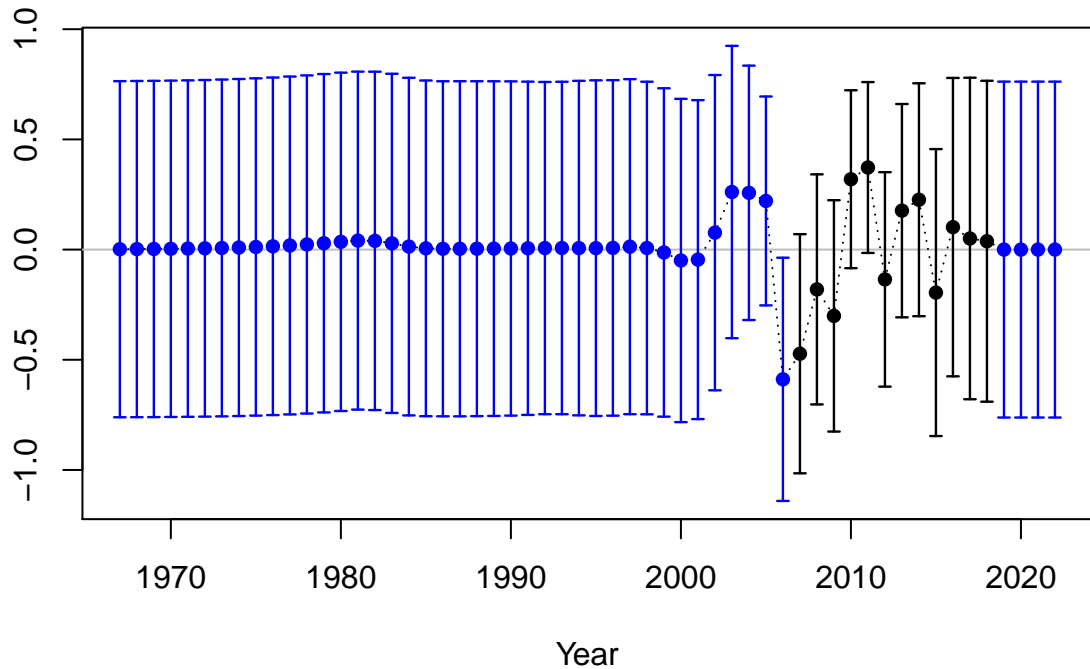




Log recruitment deviation

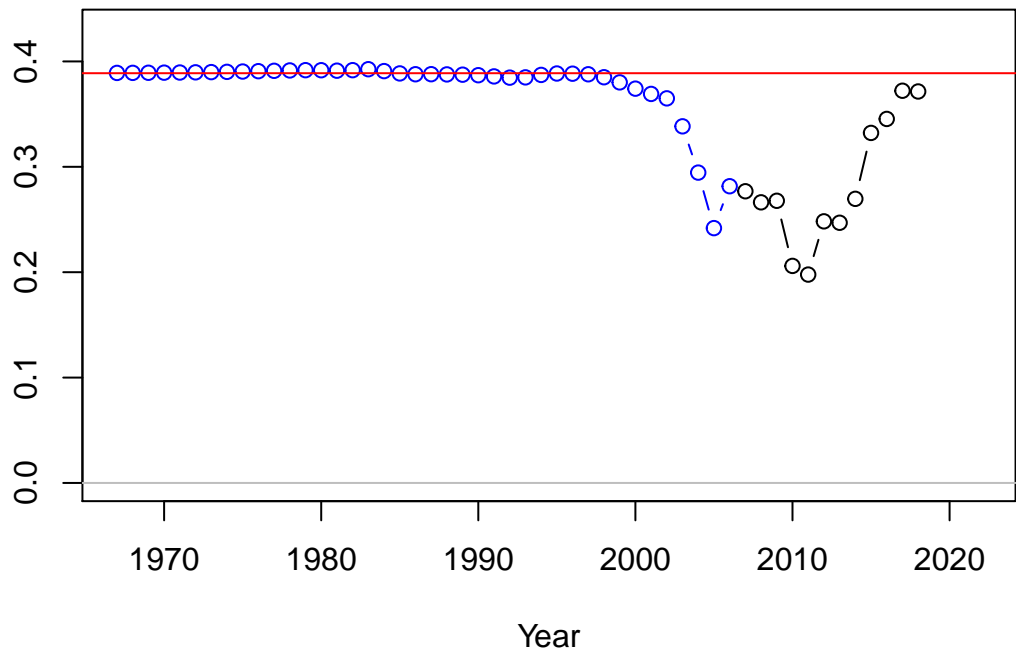


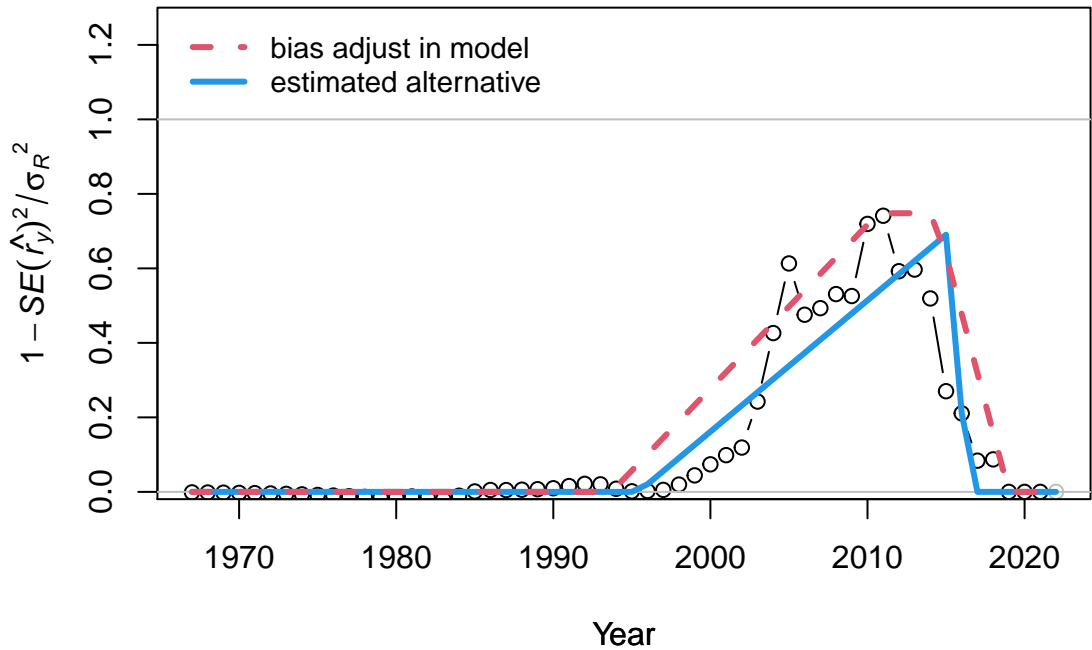
Log recruitment deviation



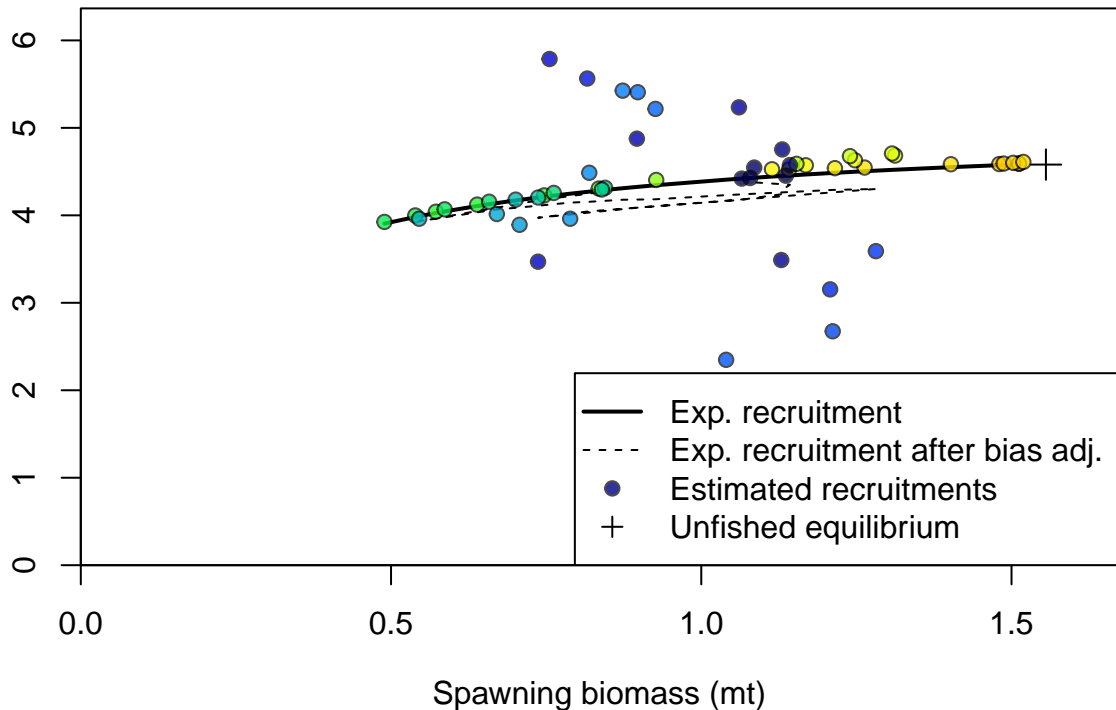
## Recruitment deviation variance

Asymptotic standard error estimate



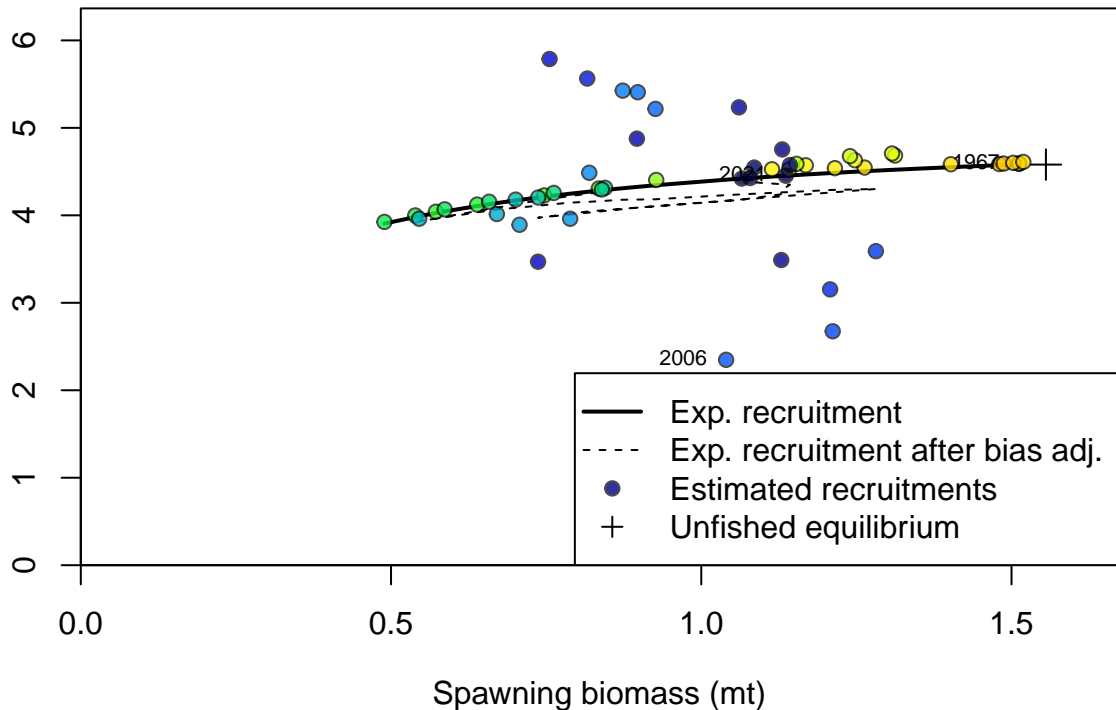


Recruitment (1,000s)

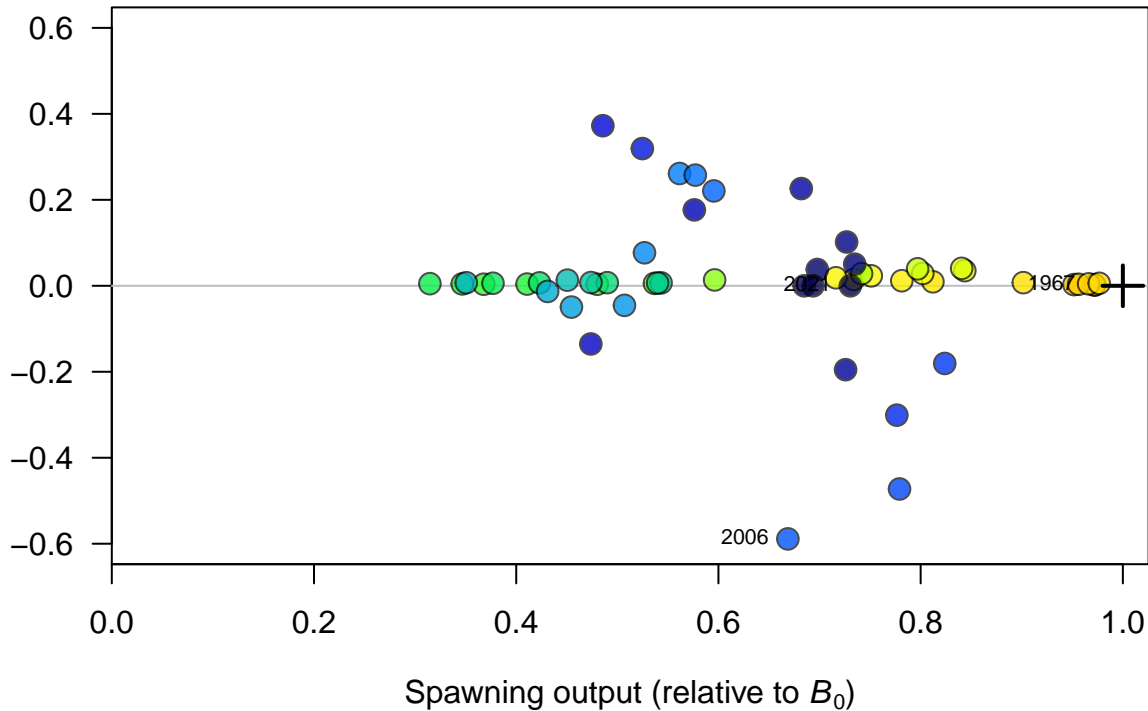


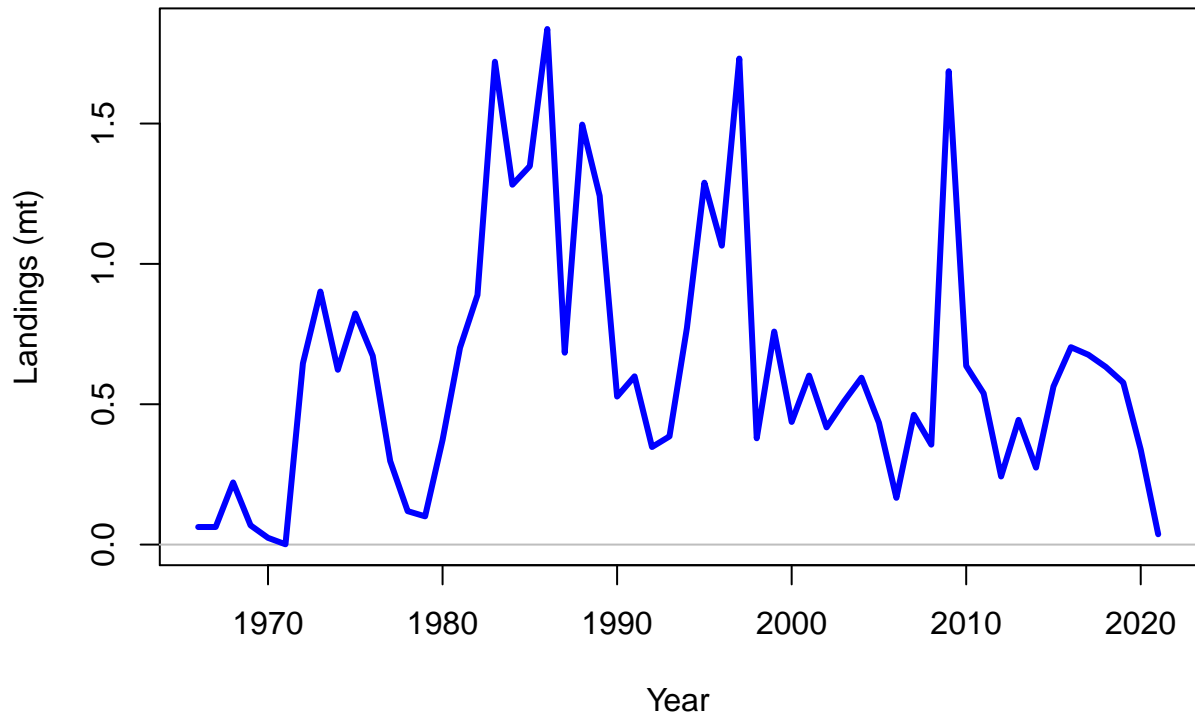


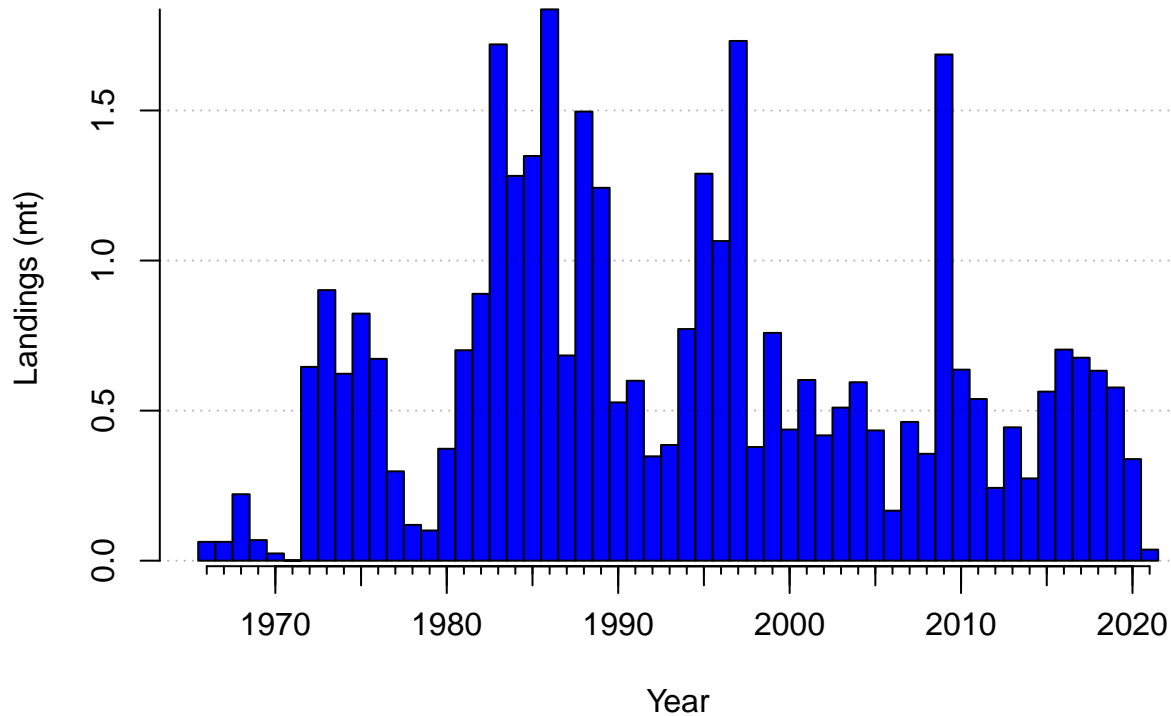
Recruitment (1,000s)

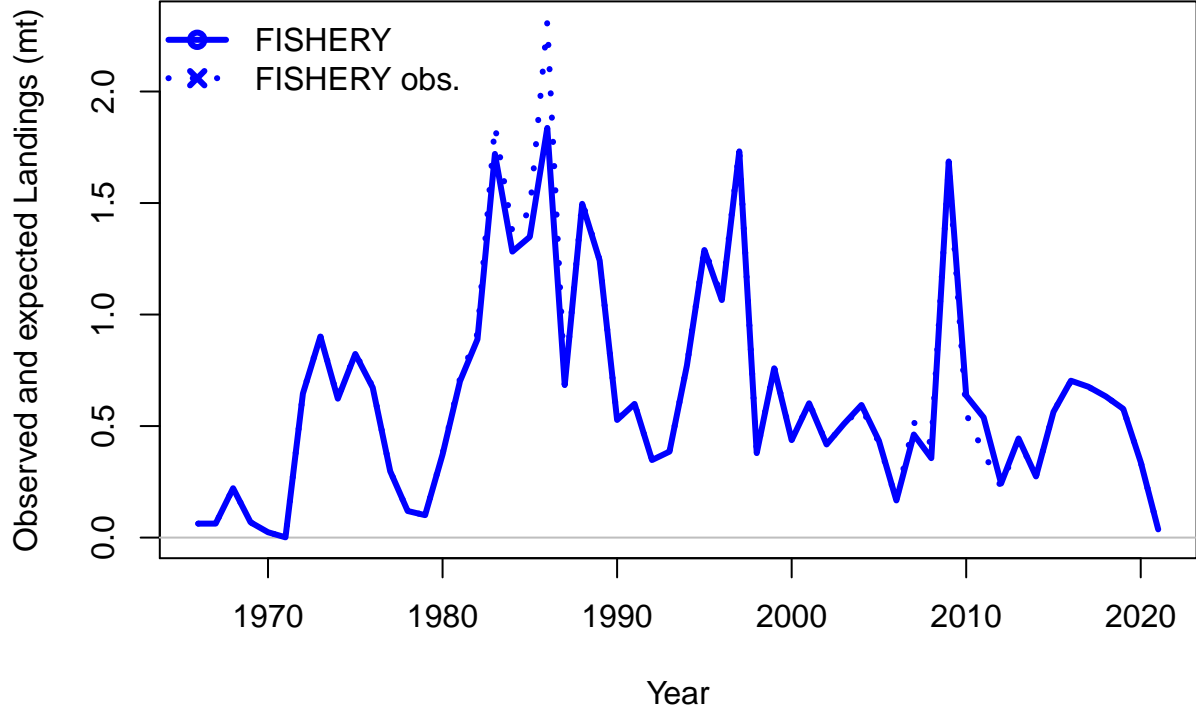


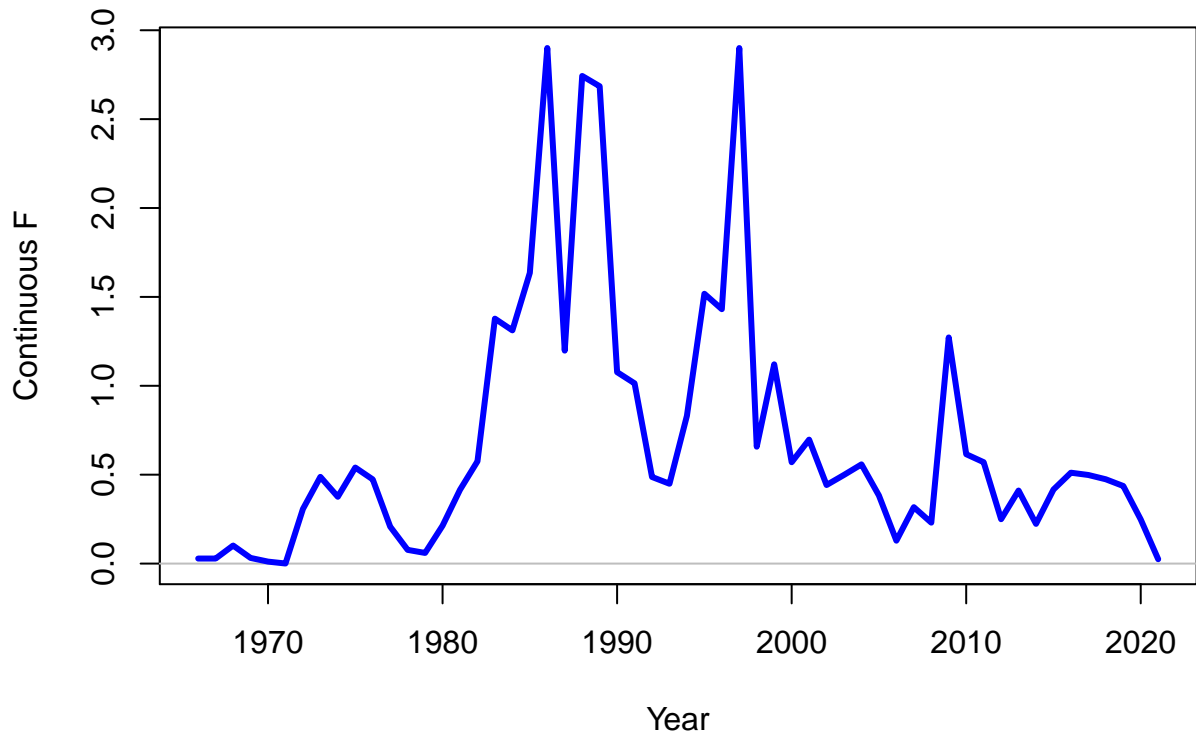
Log recruitment deviation



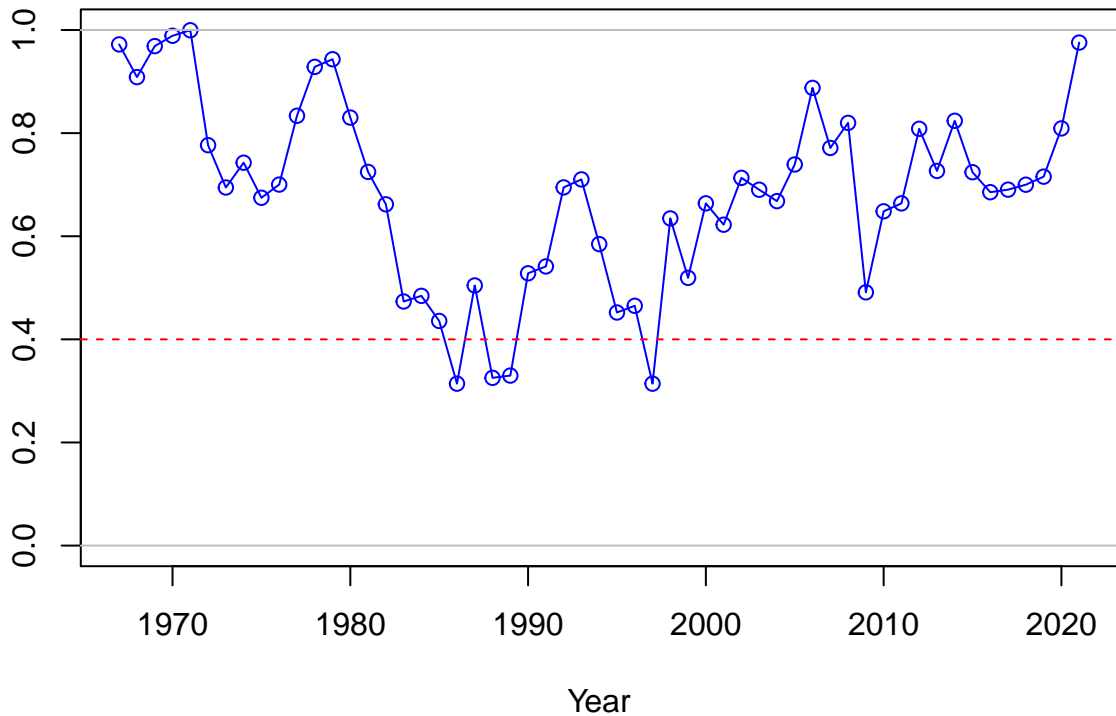




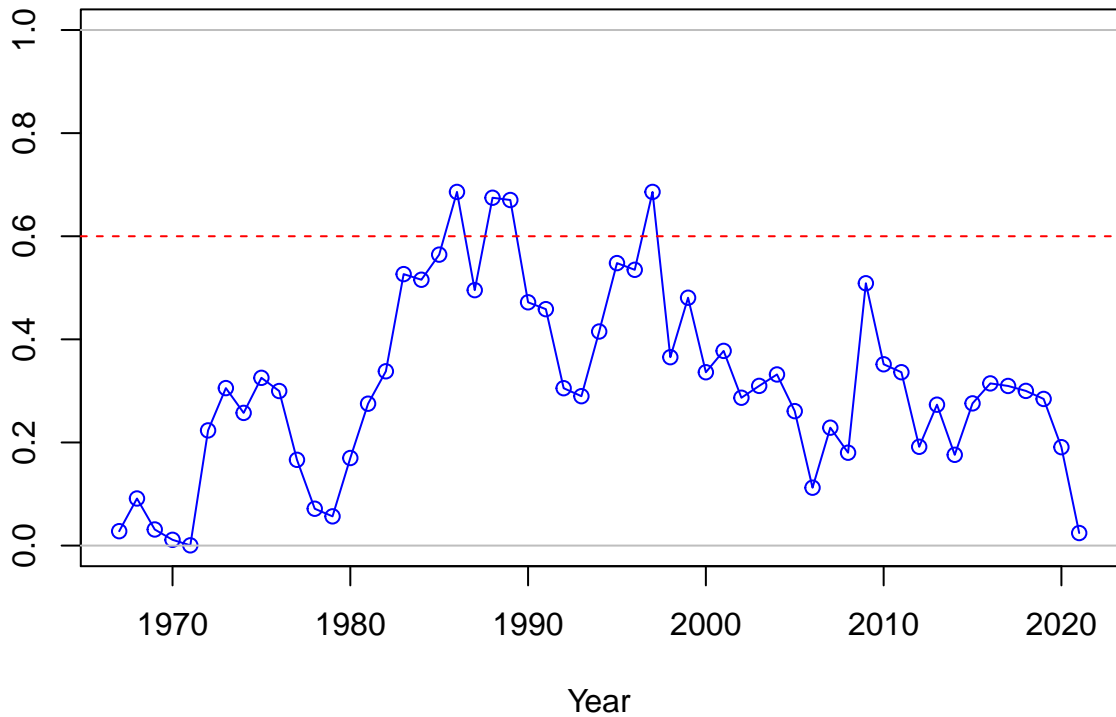




SPR

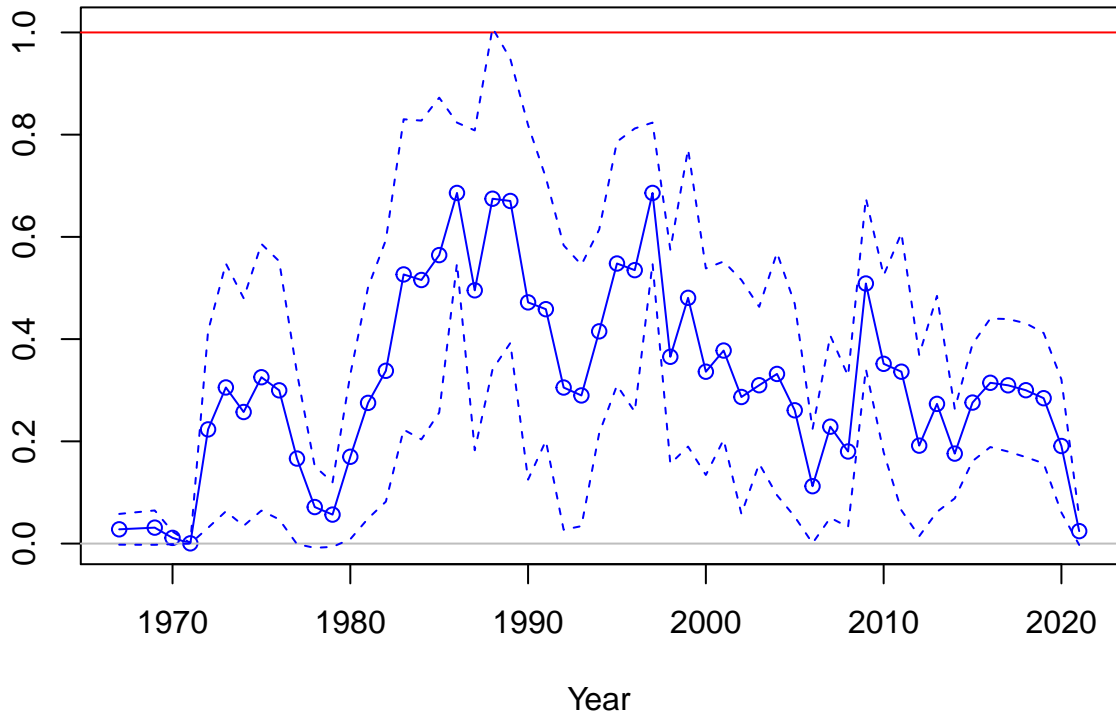


1-SPR

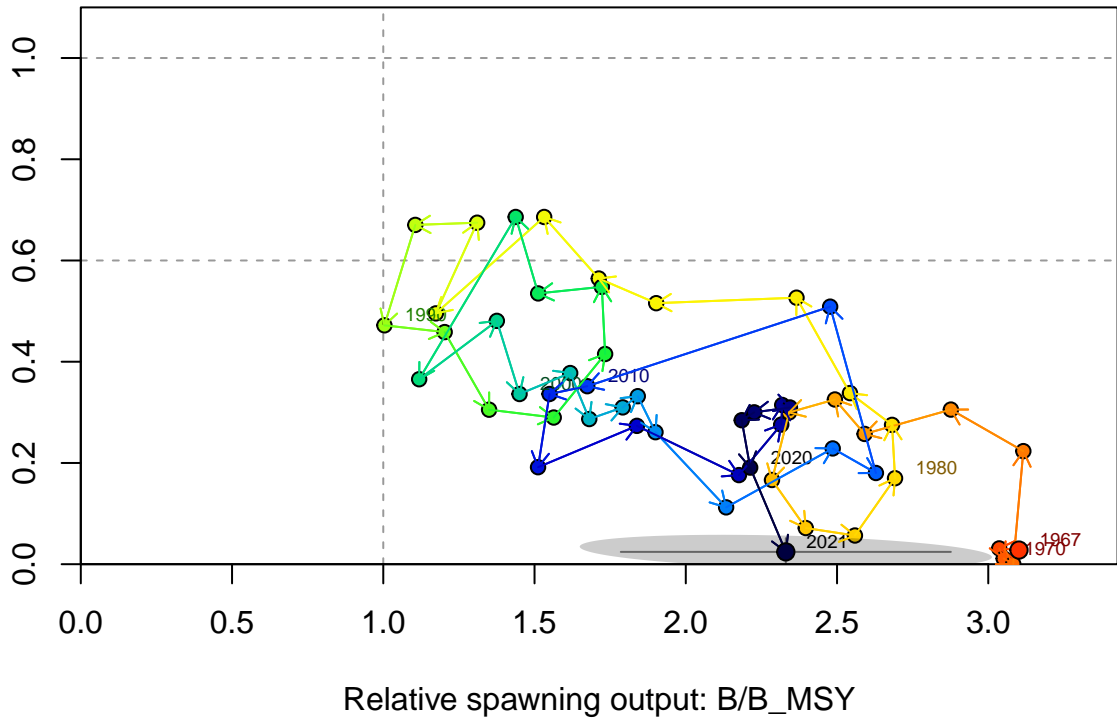


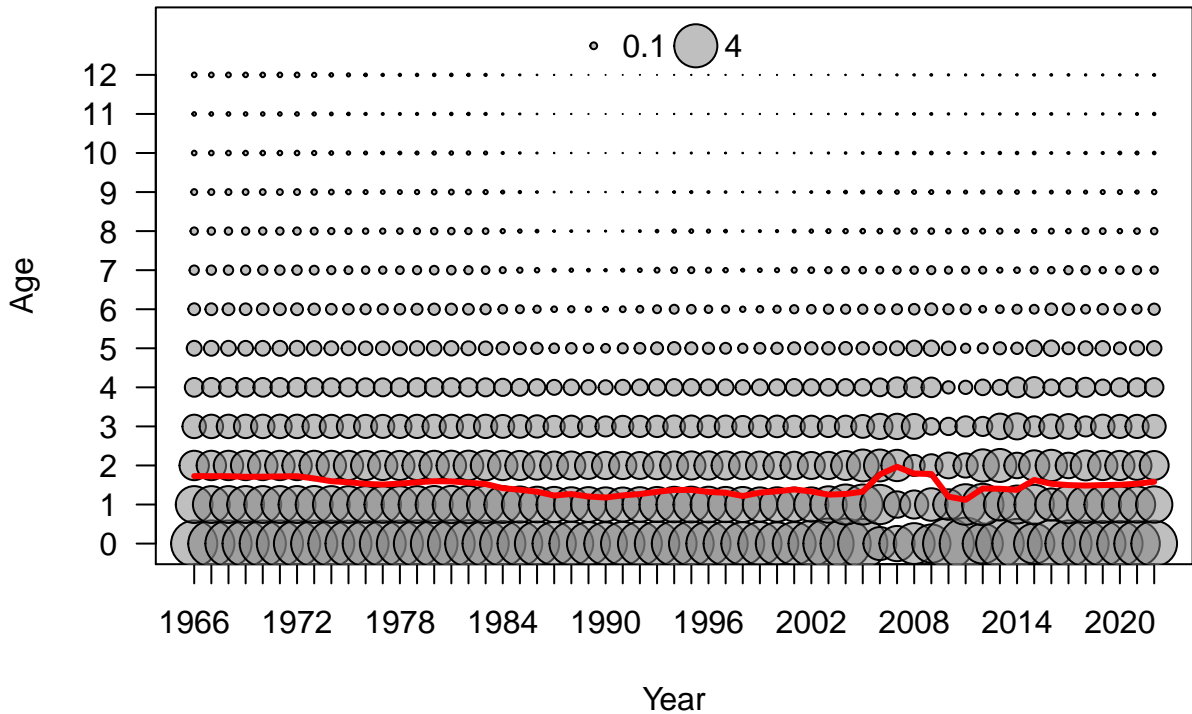


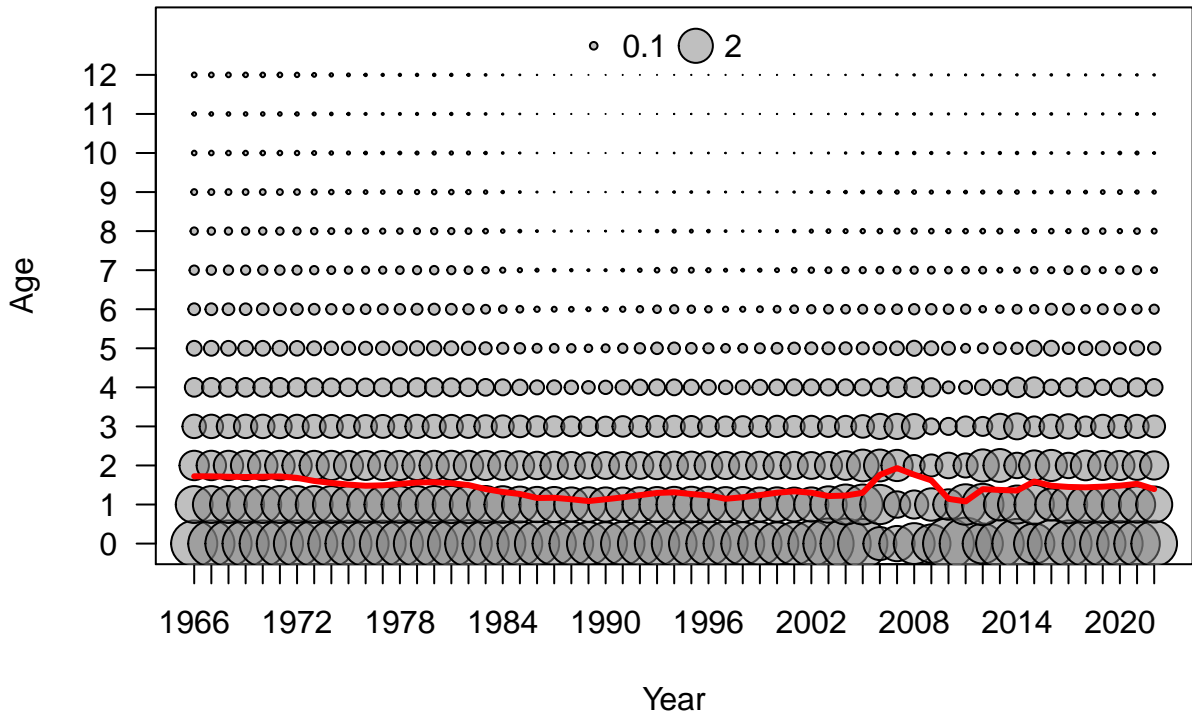
Fishing intensity: 1-SPR



Fishing intensity: 1-SPR







Length

80

60

40

20

0

◦ 0.1



4

1967

1973

1979

1985

1991

1997

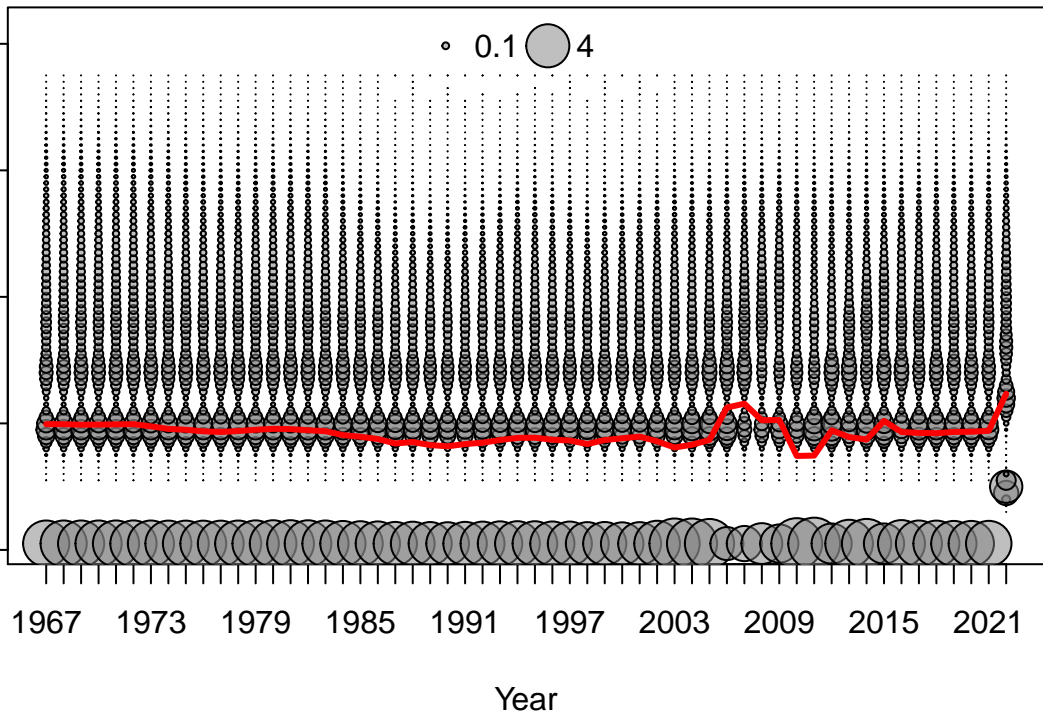
2003

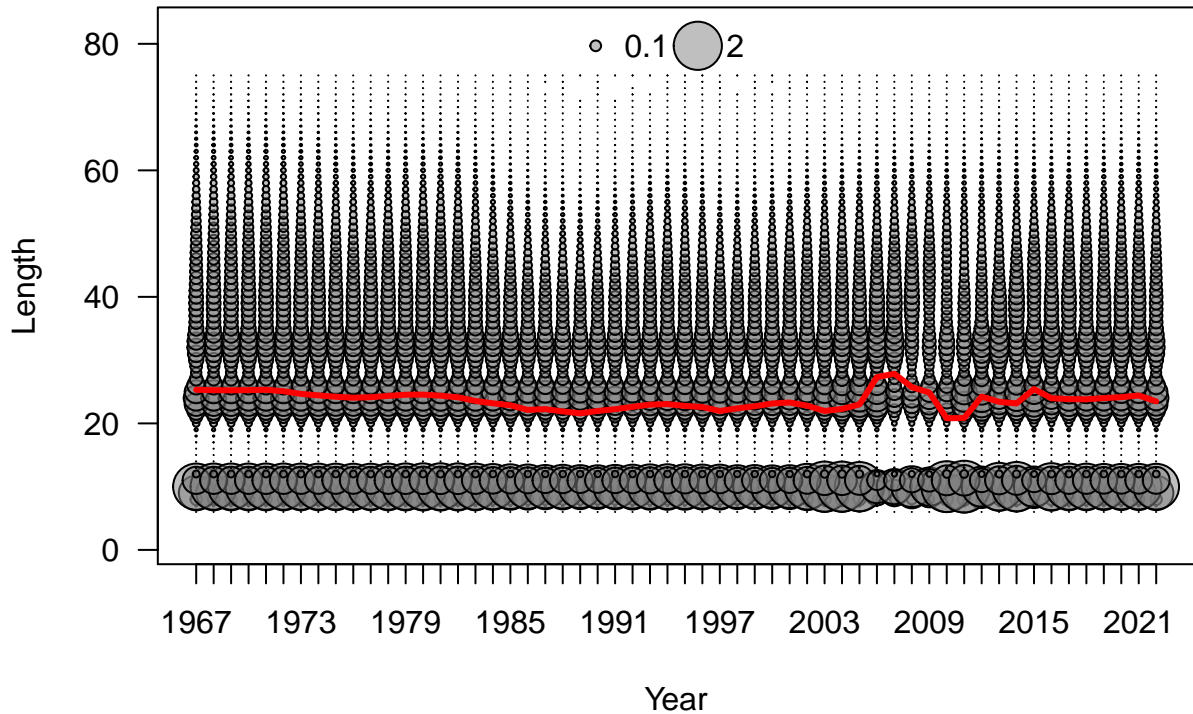
2009

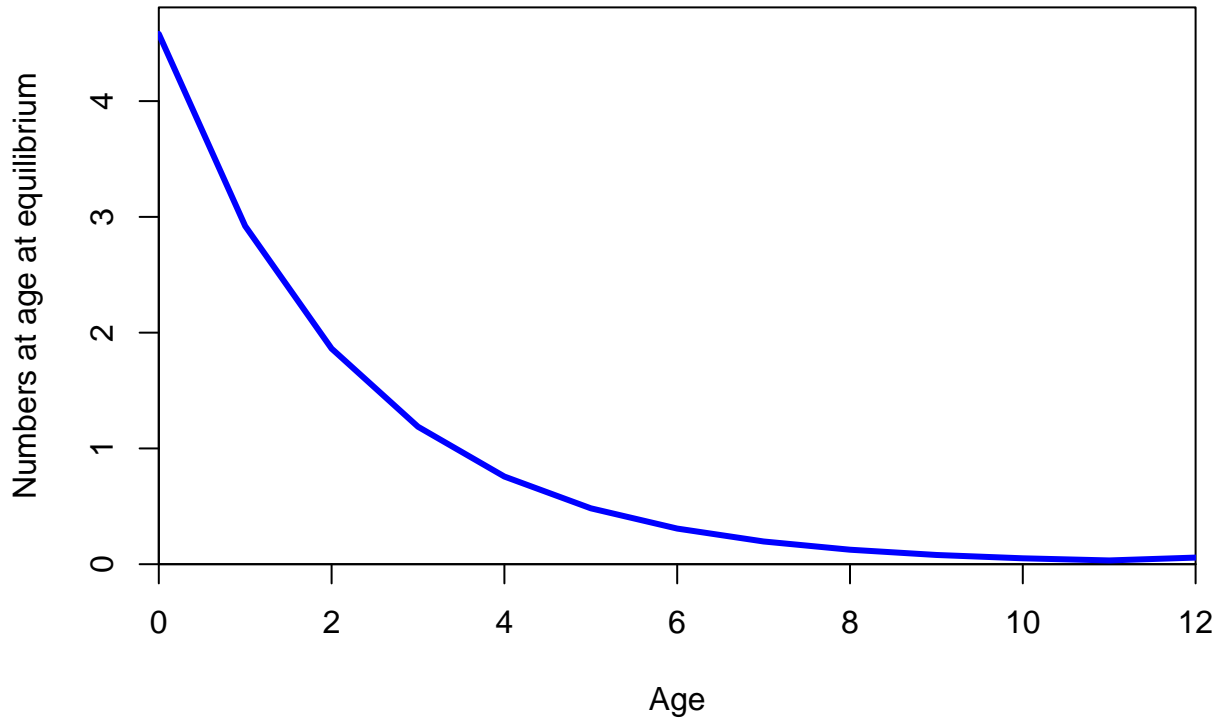
2015

2021

Year

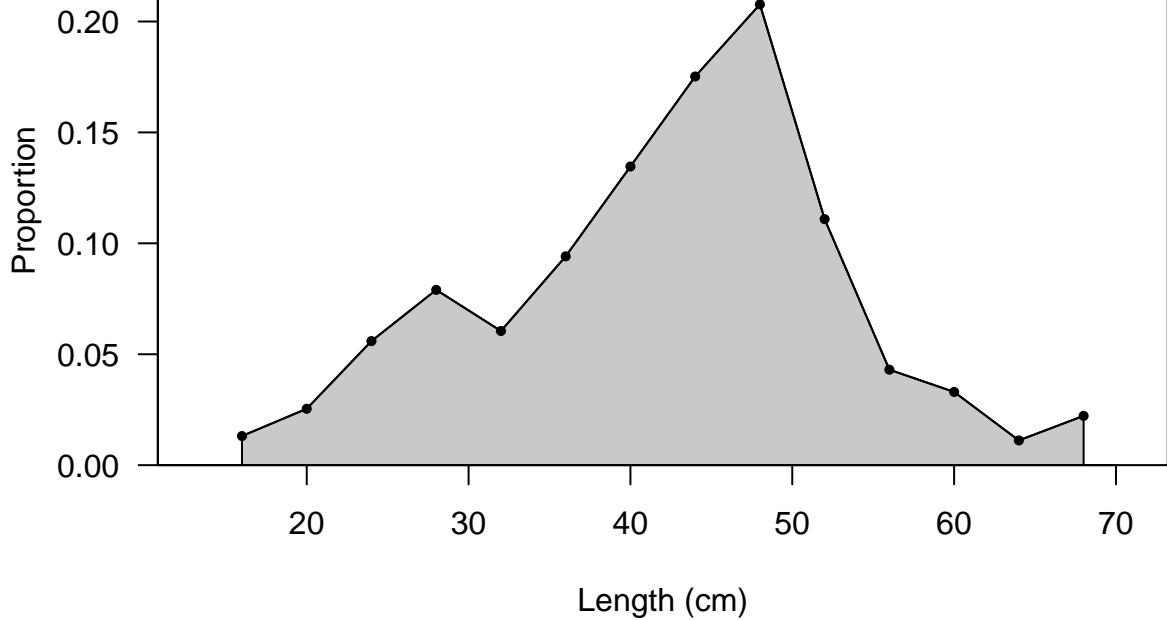




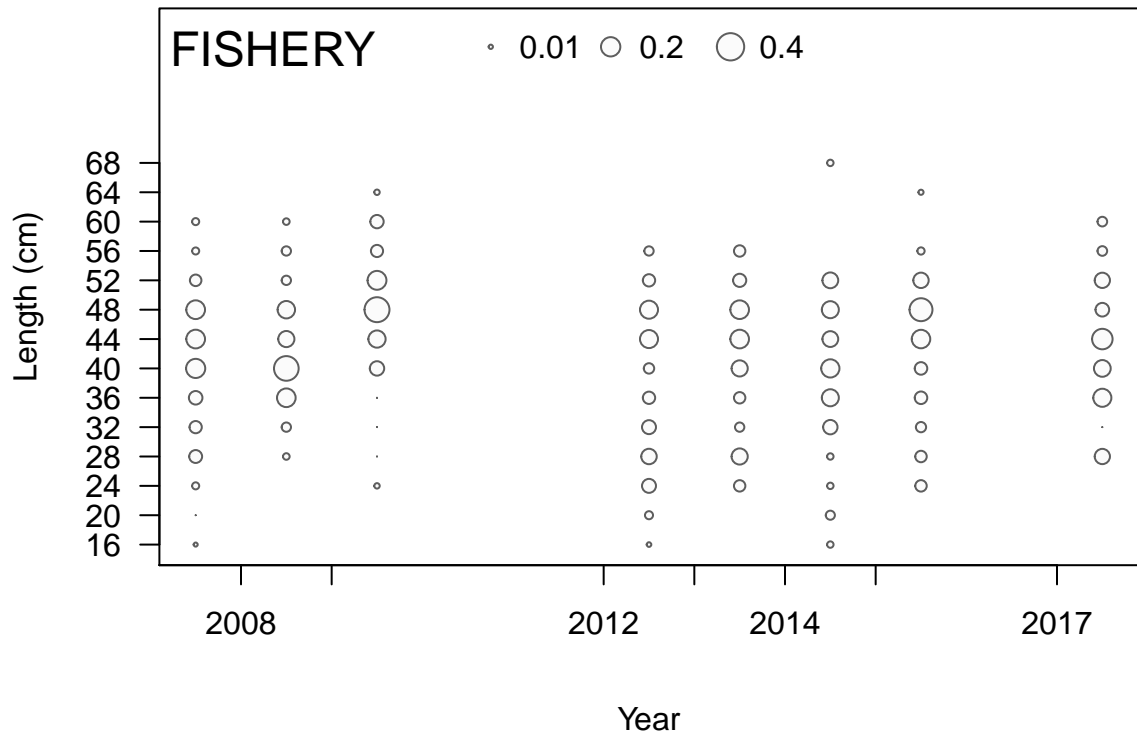


# FISHERY

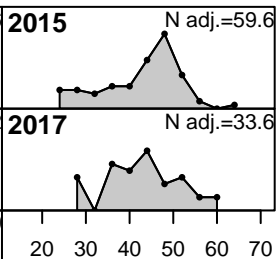
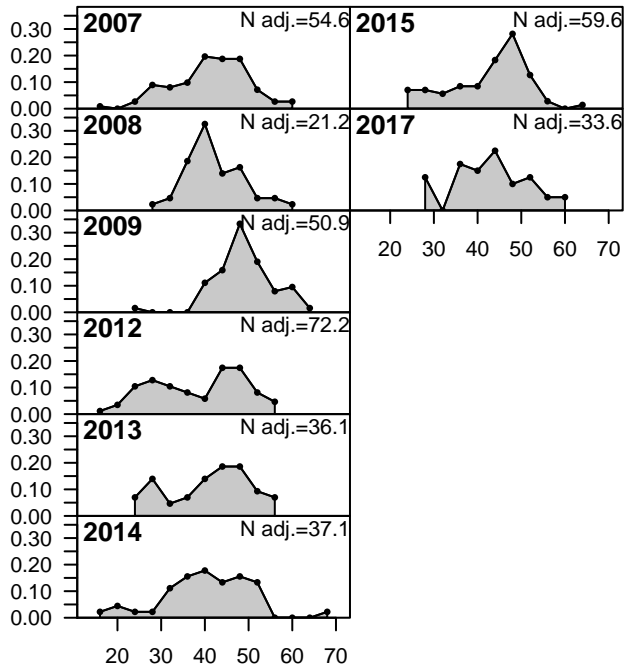
Sum of N adj.=365.4



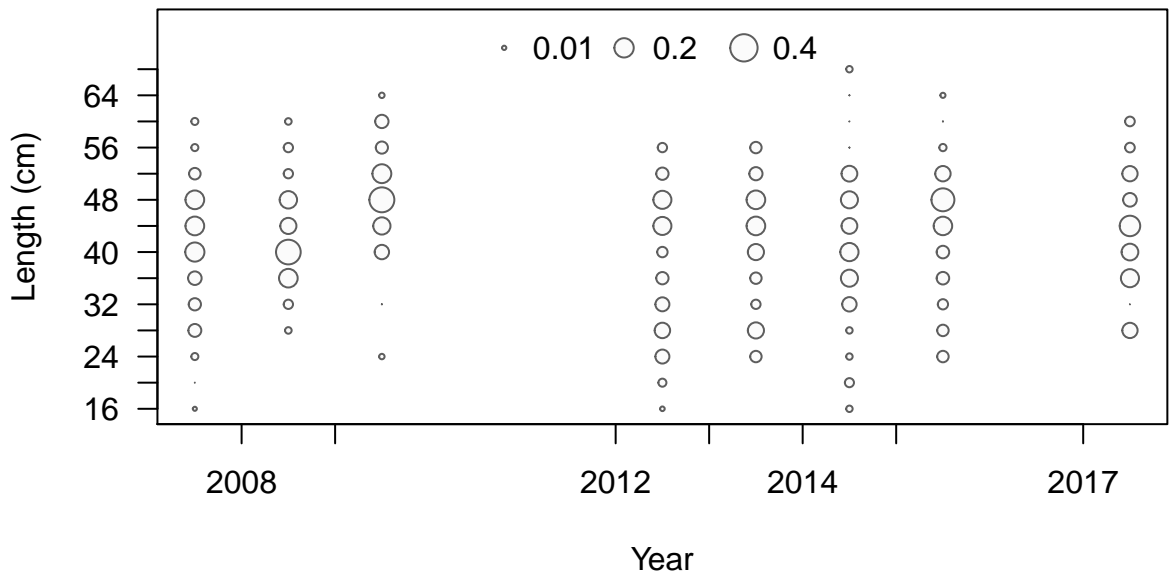




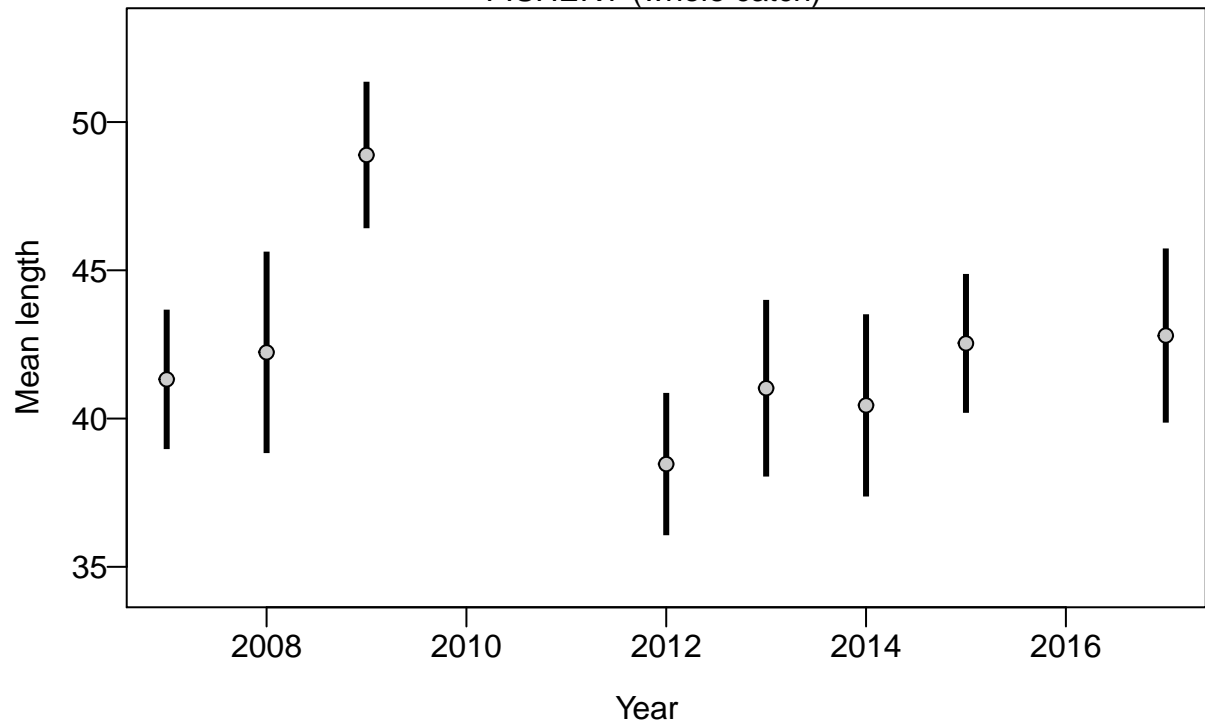
Proportion



Length (cm)

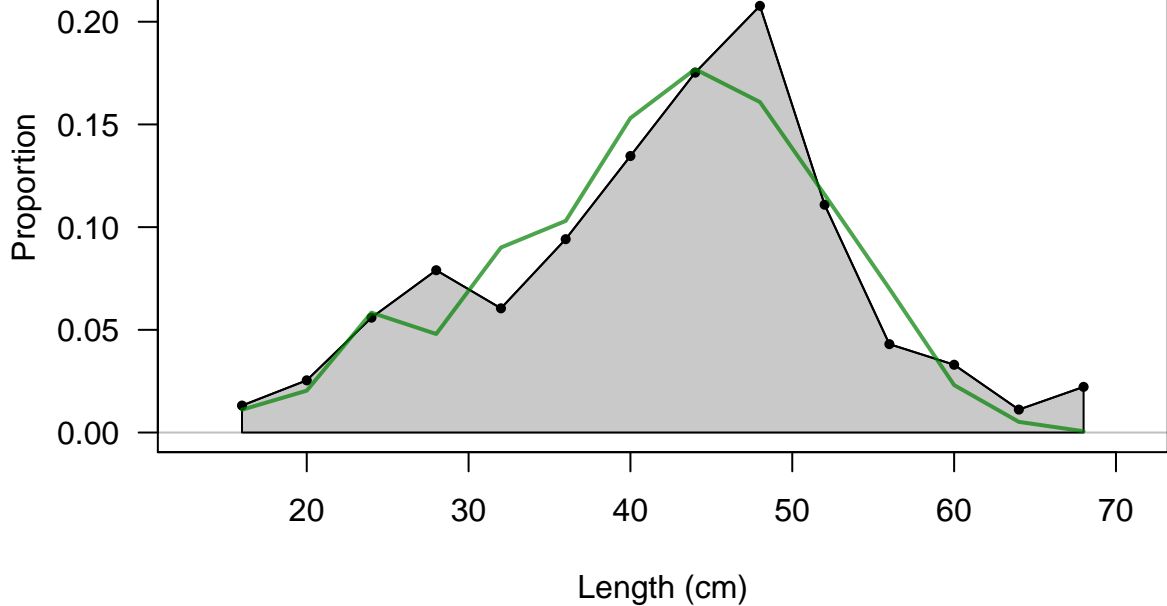


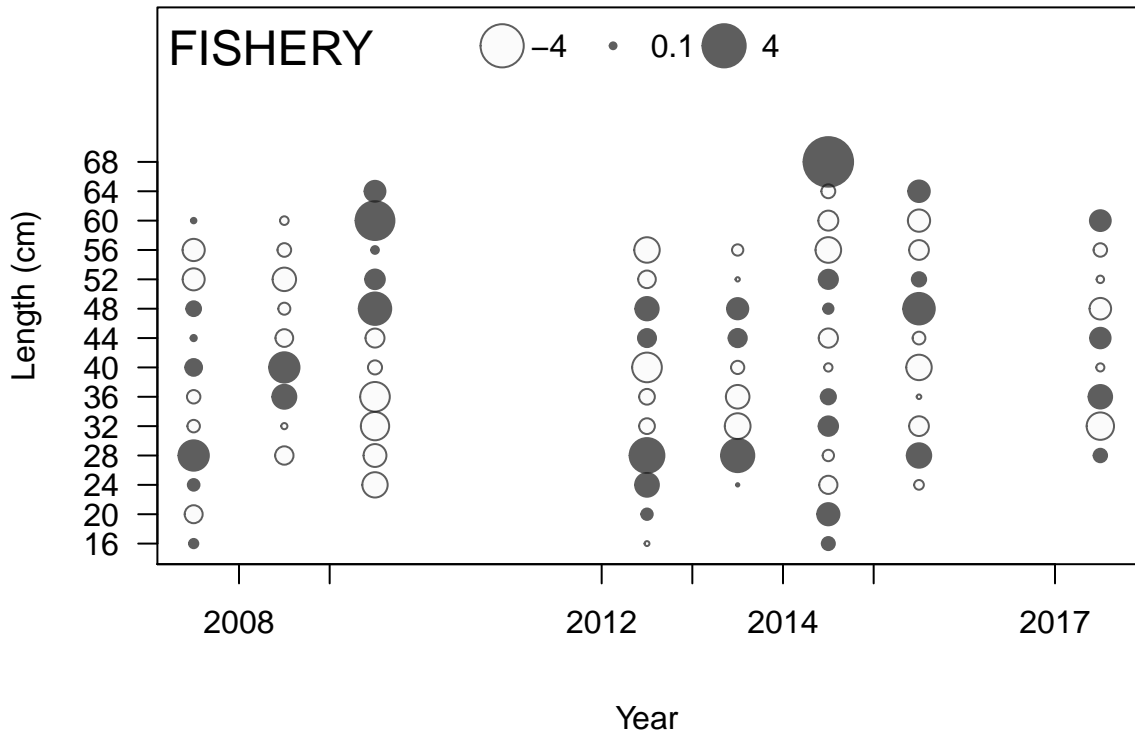
## FISHERY (whole catch)



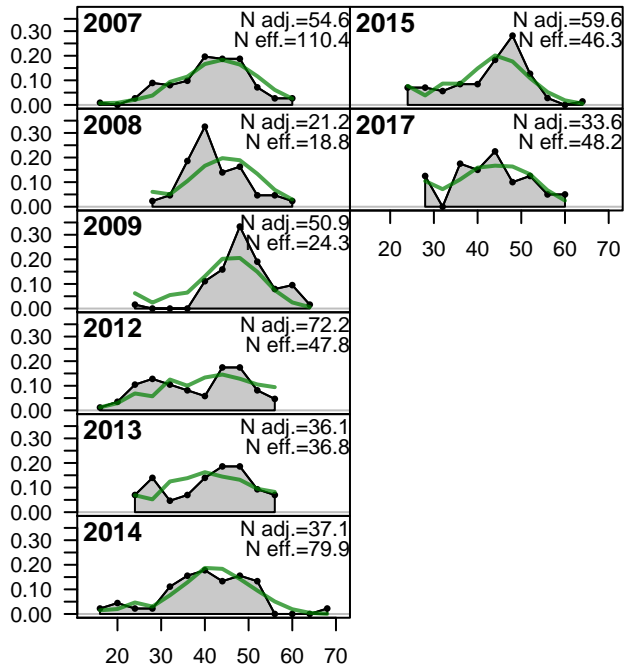
# FISHERY

Sum of N adj.=365.4  
Sum of N eff.=412.6

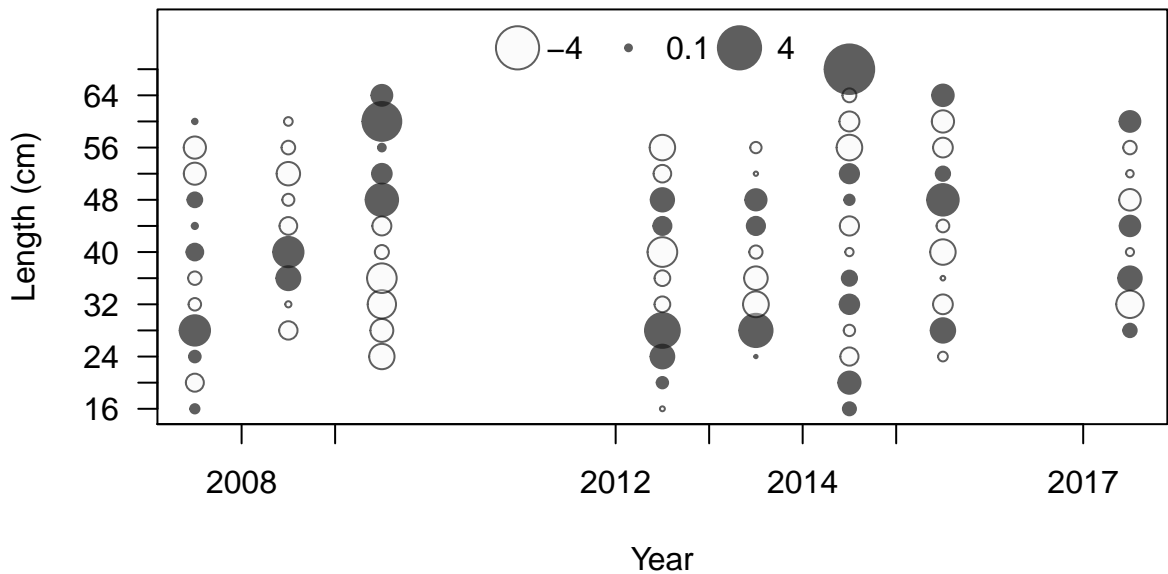




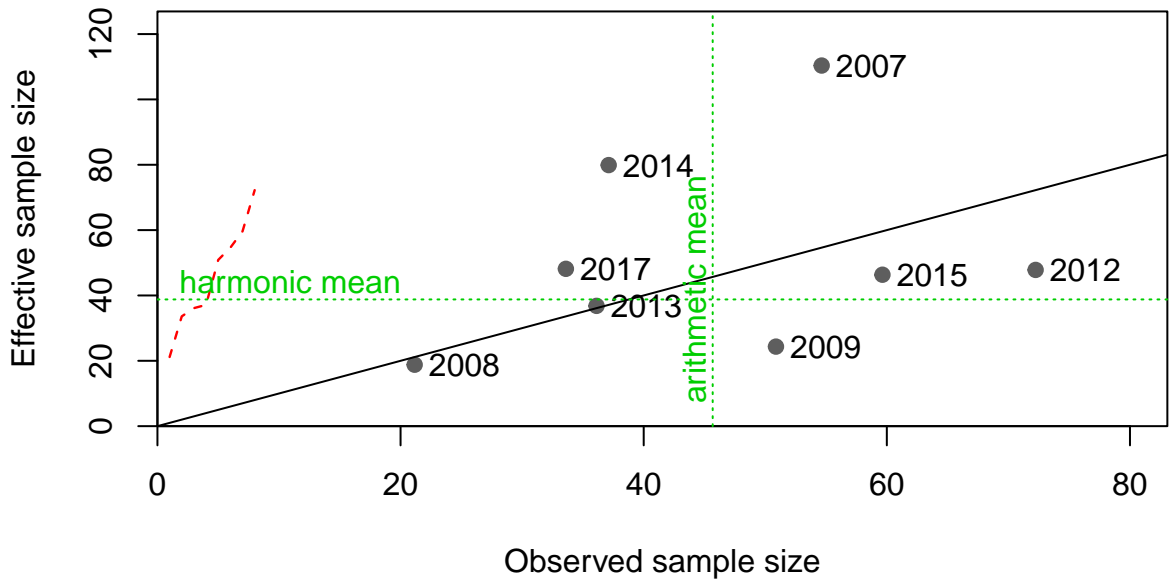
Proportion



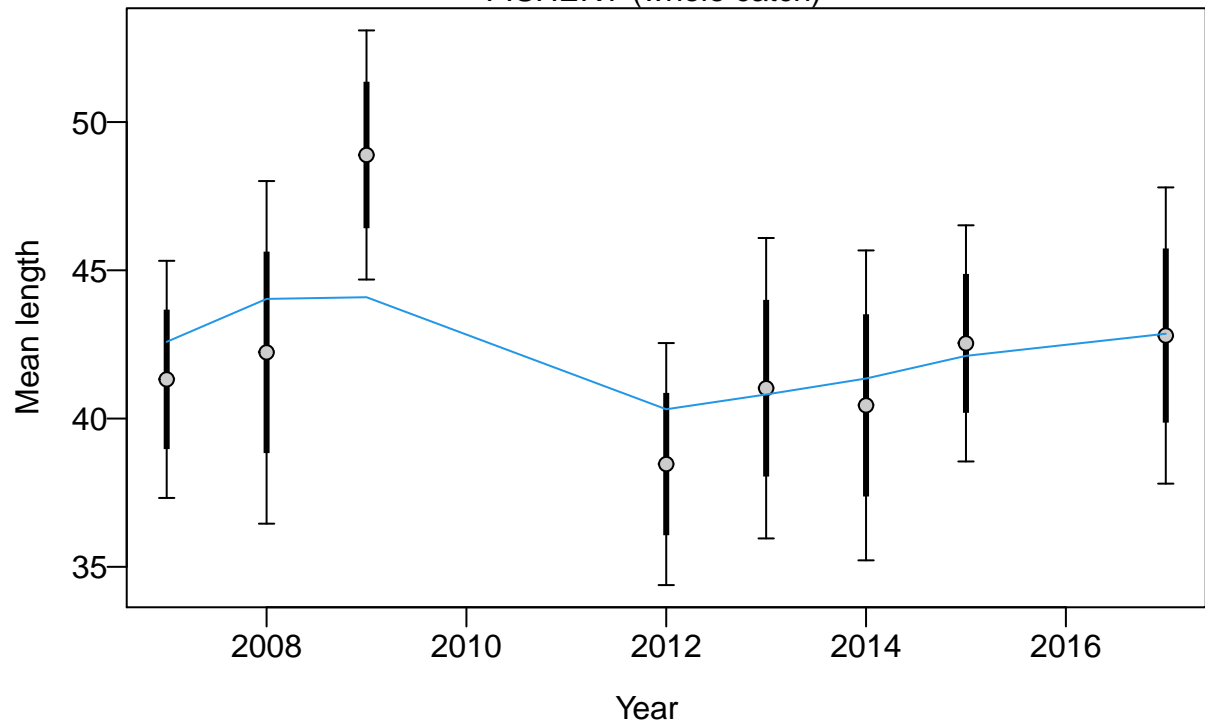
Length (cm)

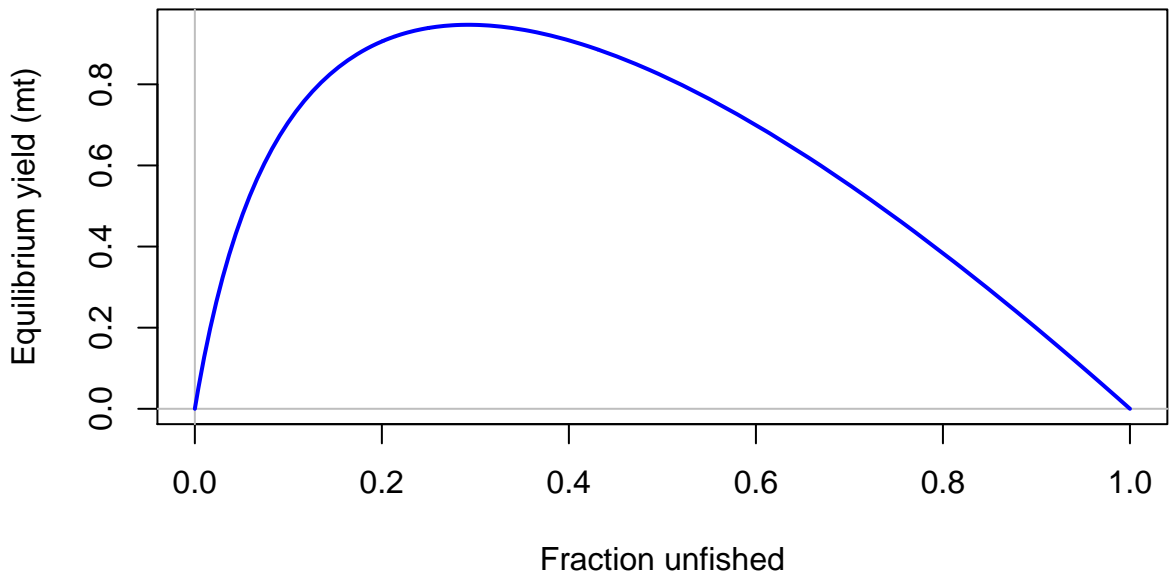


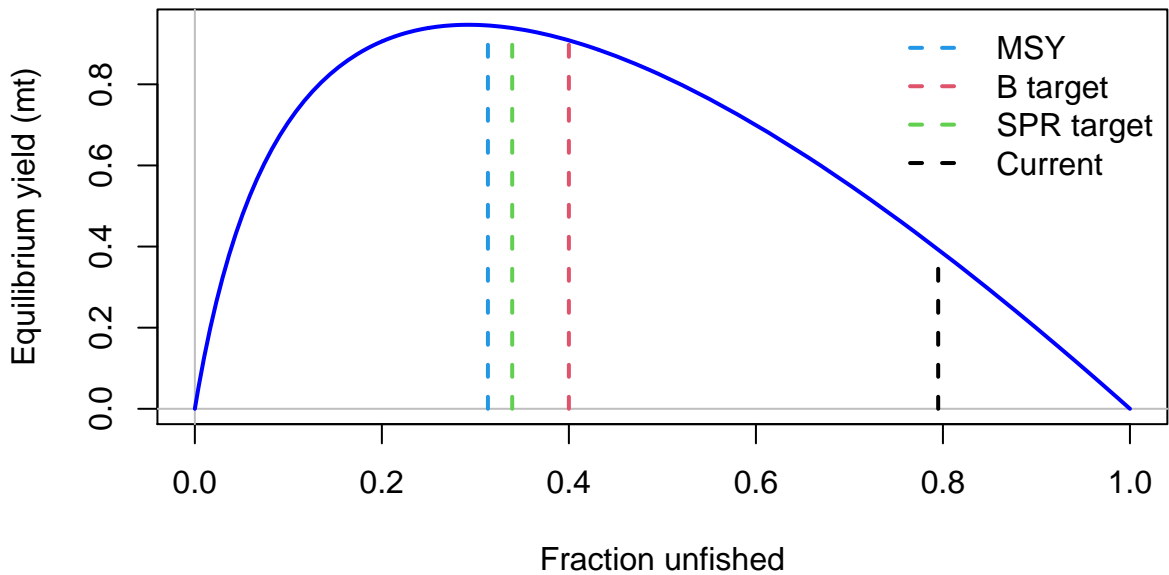


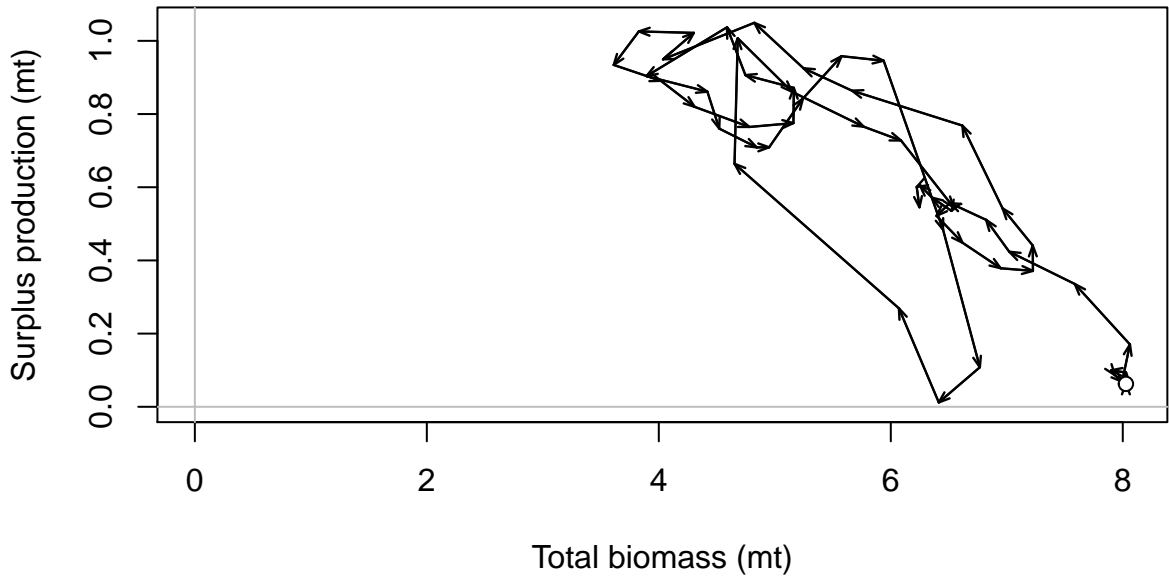


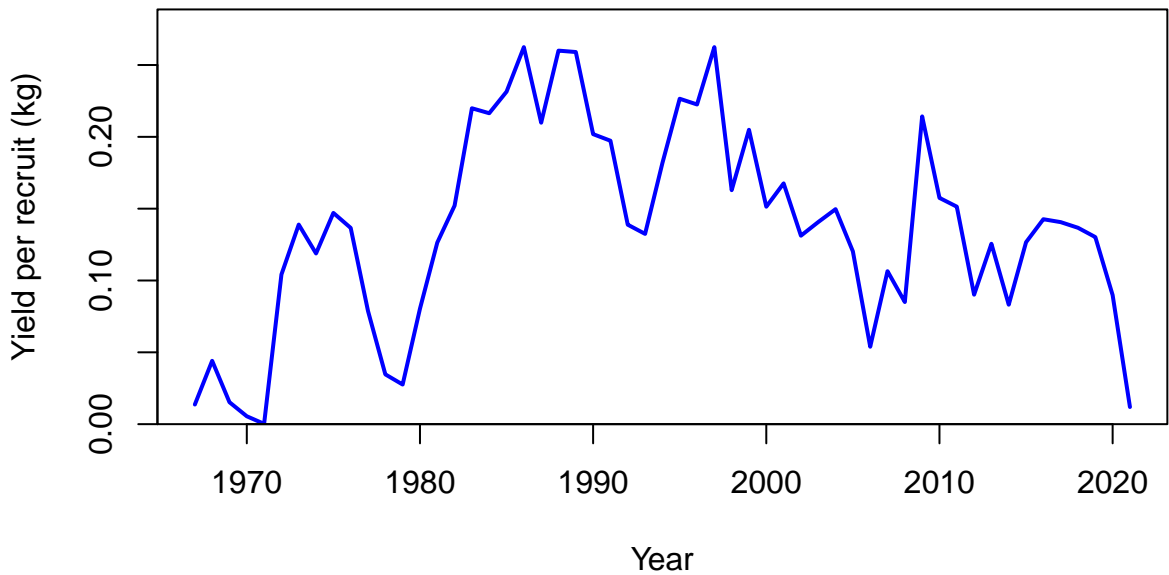
FISHERY (whole catch)

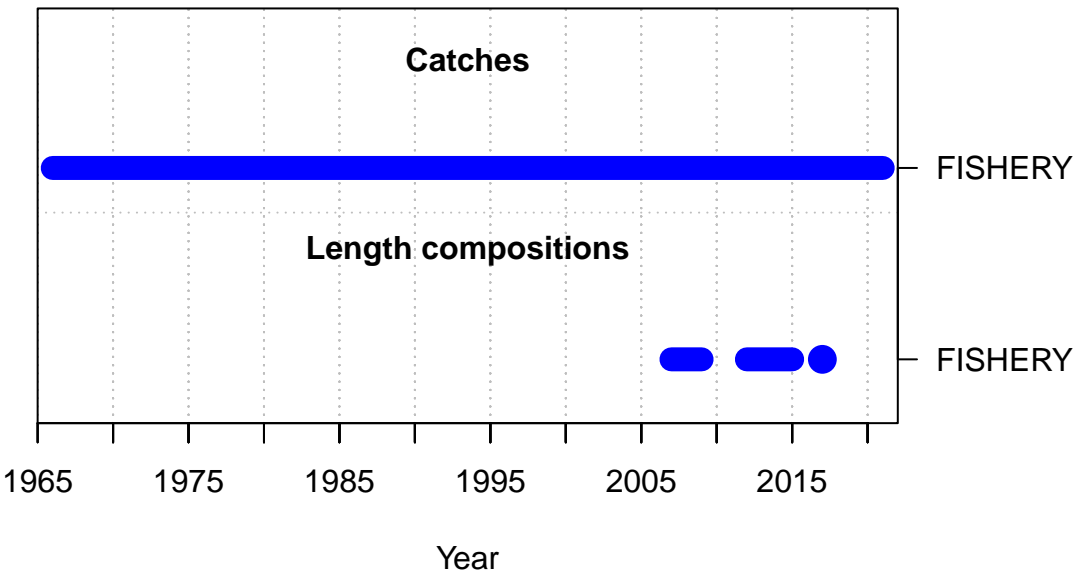


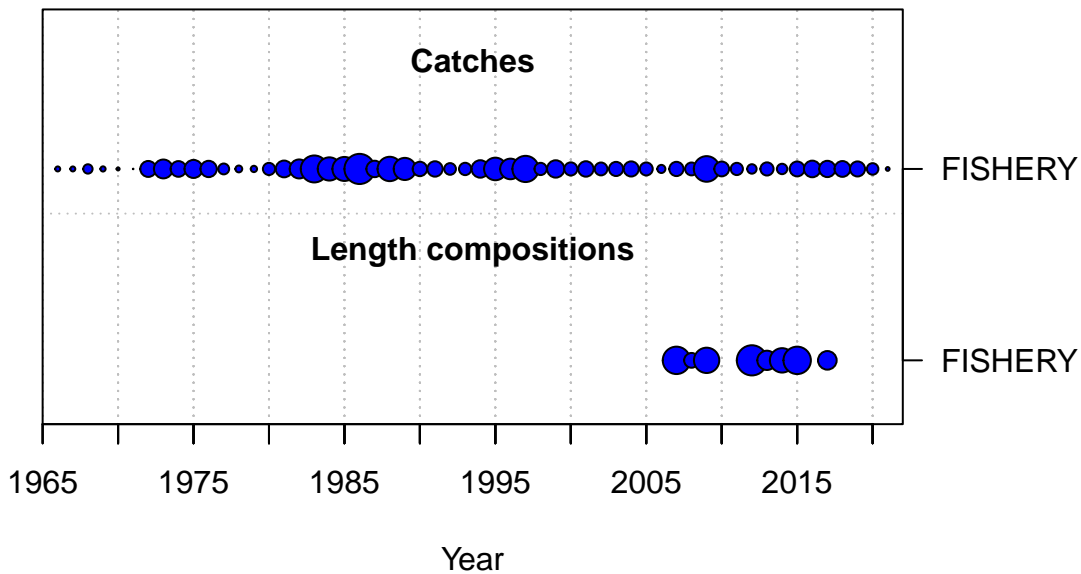






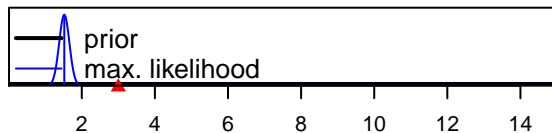




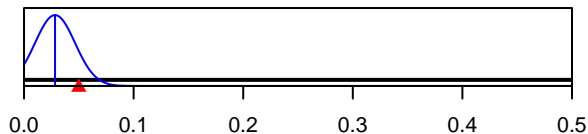




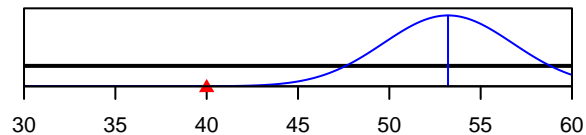
SR\_LN(R0)



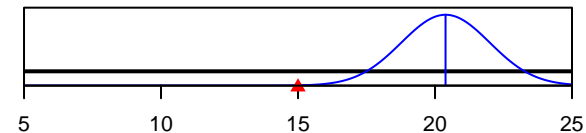
InitF\_seas\_1\_flt\_1FISHERY



Size\_inflection\_FISHERY(1)



Size\_95%width\_FISHERY(1)



Parameter value