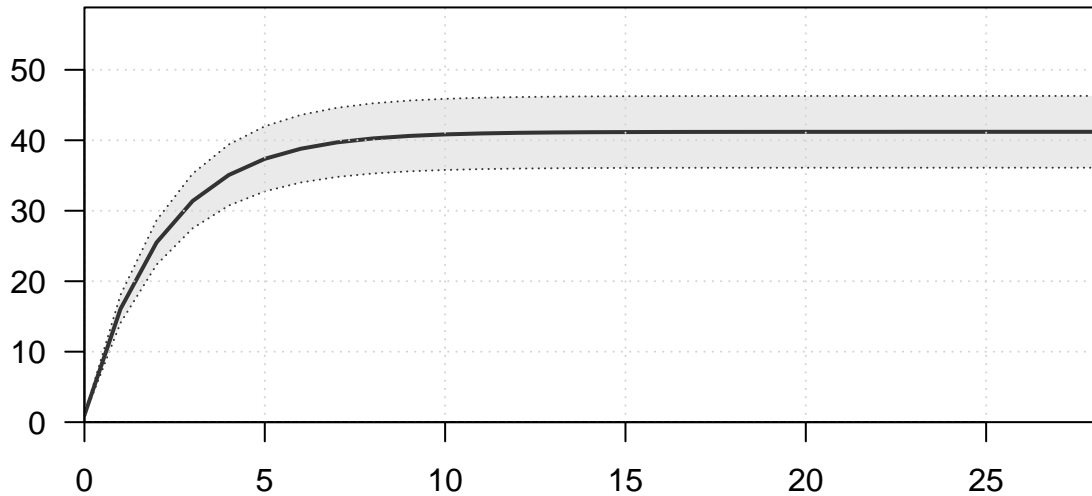


Plots created using the 'r4ss' package in R
Stock Synthesis version: 3.30.19.0
StartTime: Sun Feb 19 15:07:30 2023
Data_File: data.ss
Control_File: control.ss

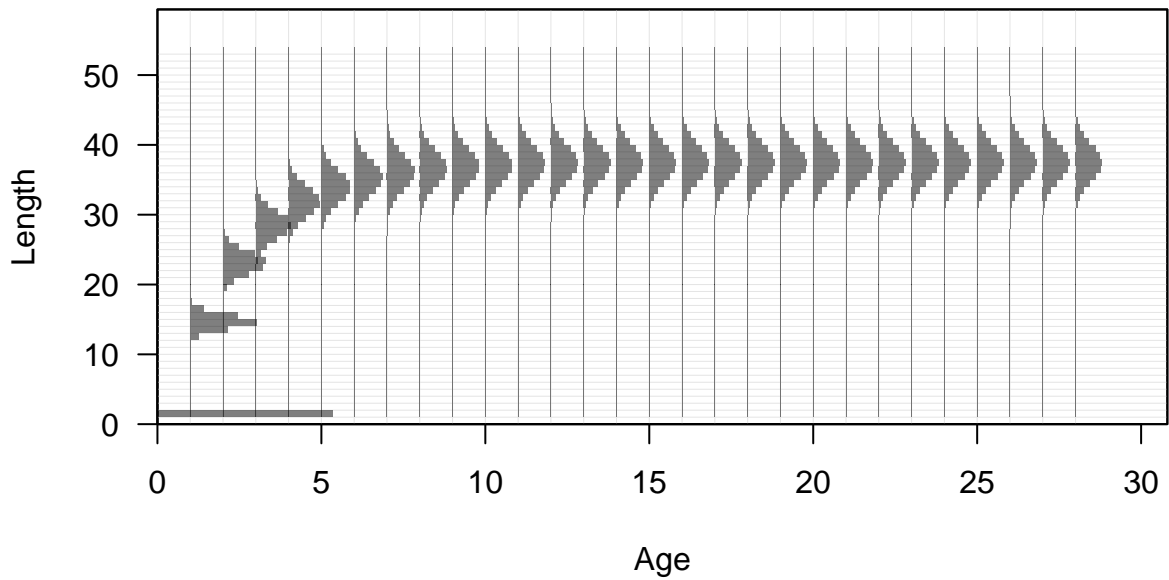
Length (cm, beginning of the year)



Age (yr)

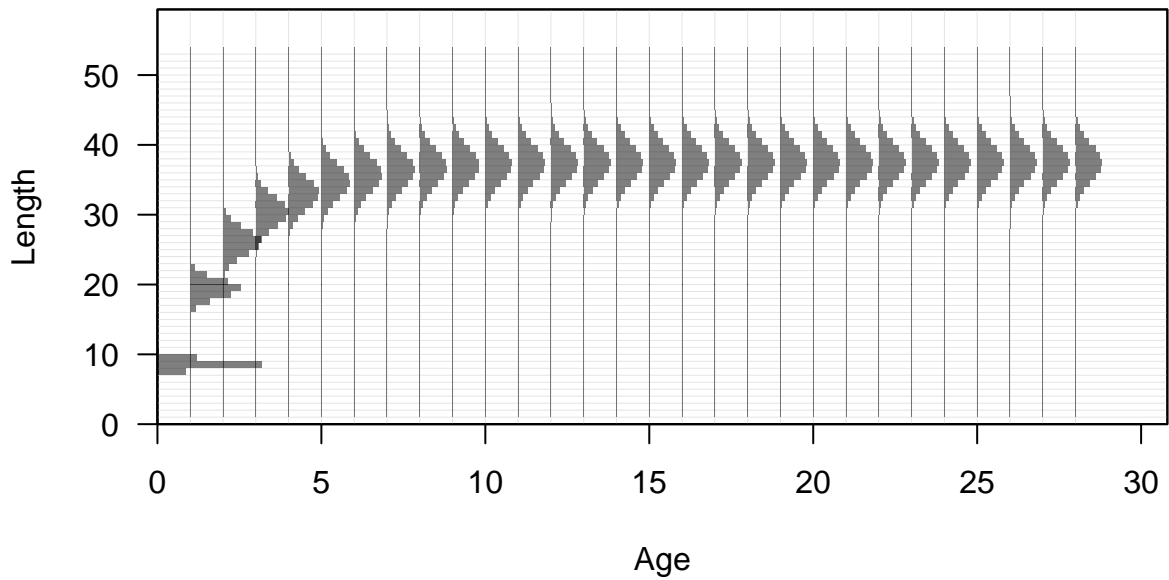








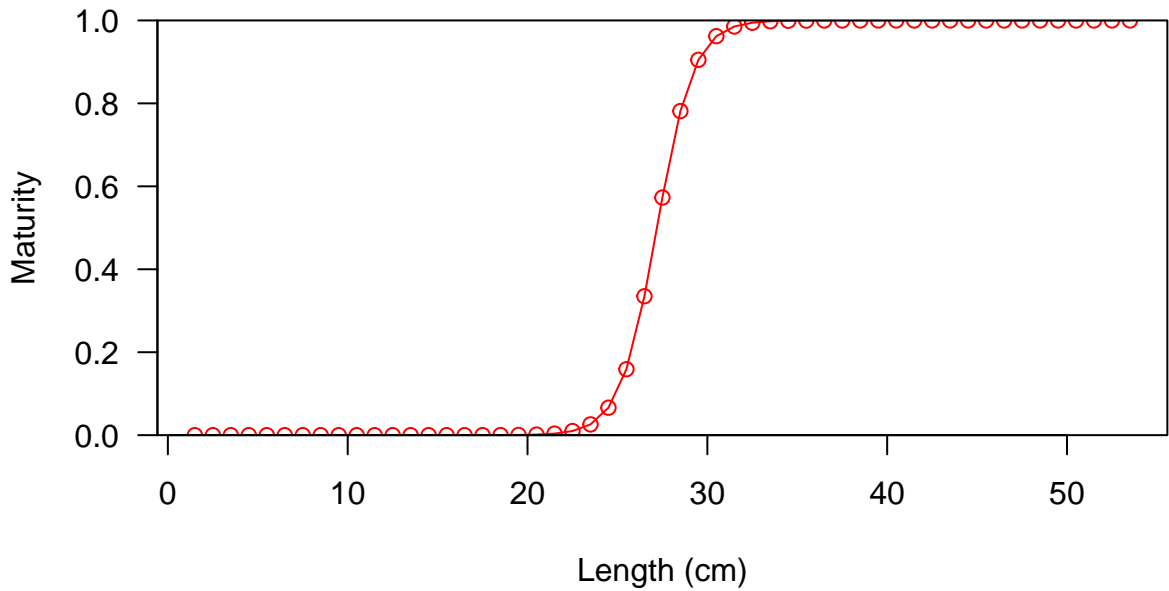












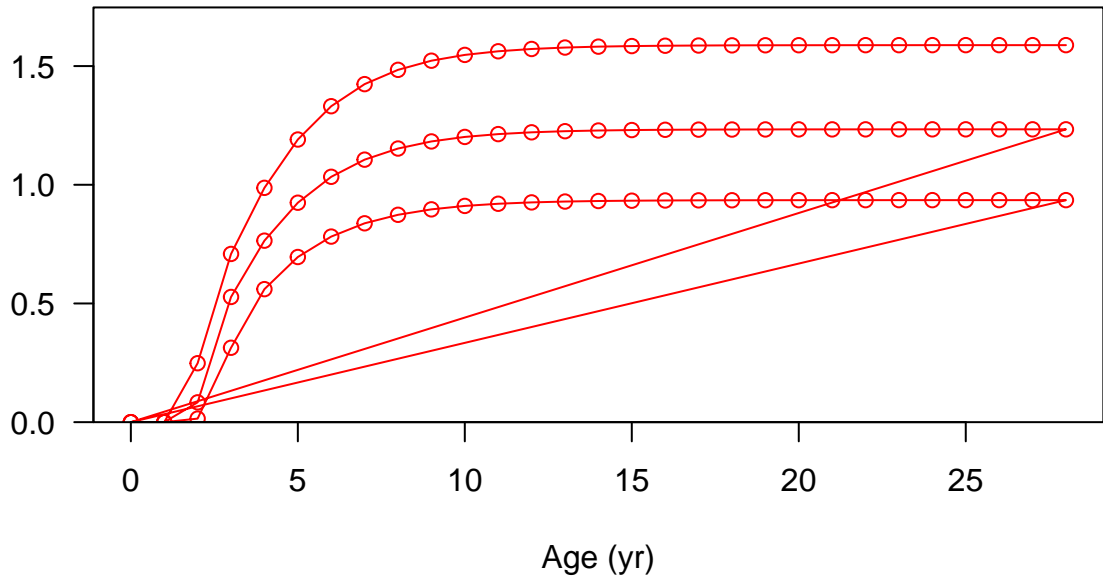




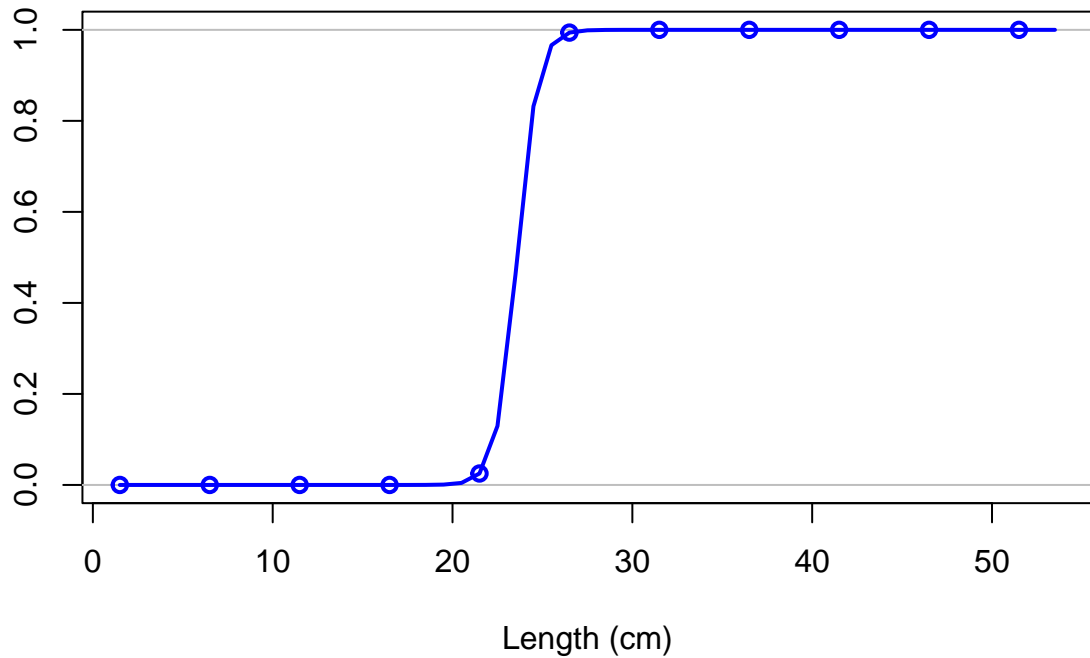




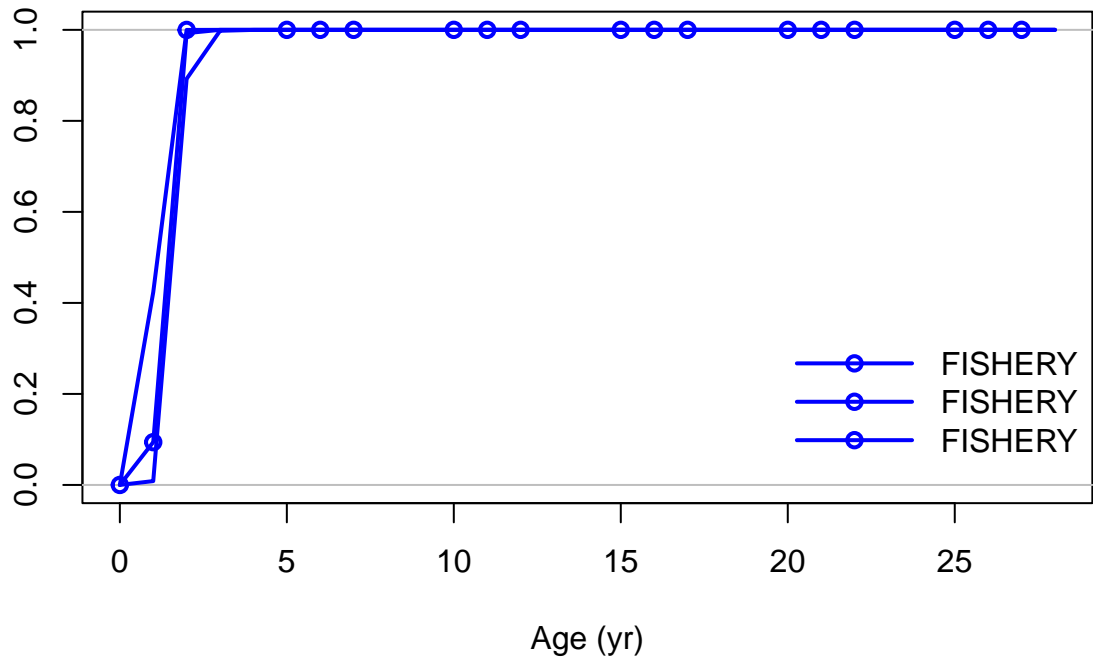
Spawning output



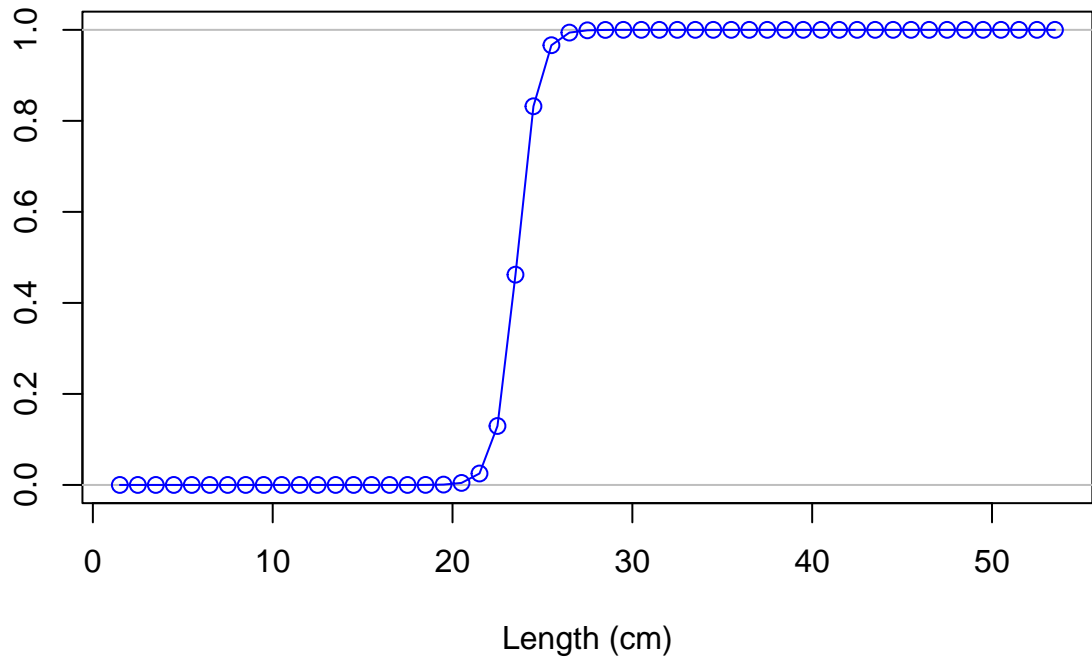
Selectivity

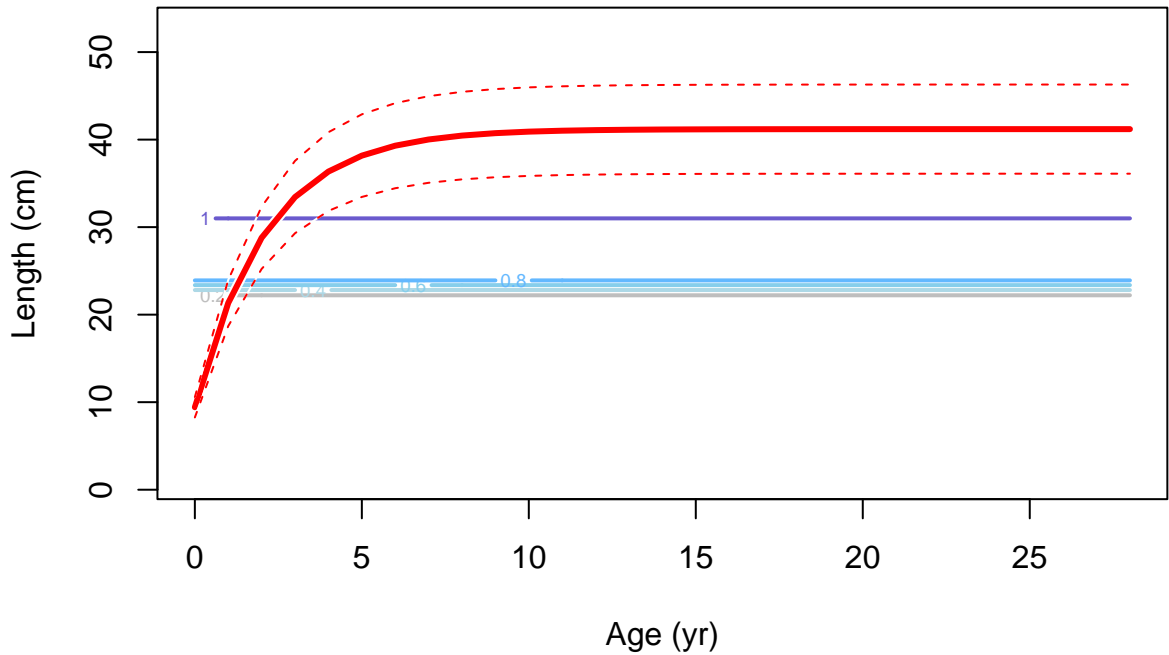


Selectivity

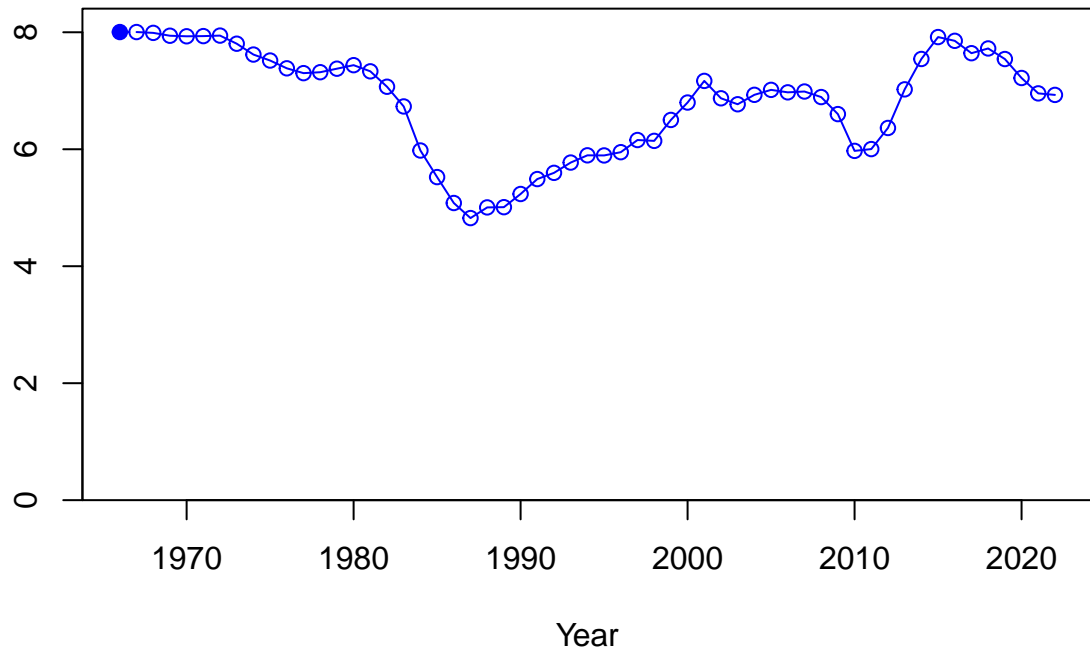


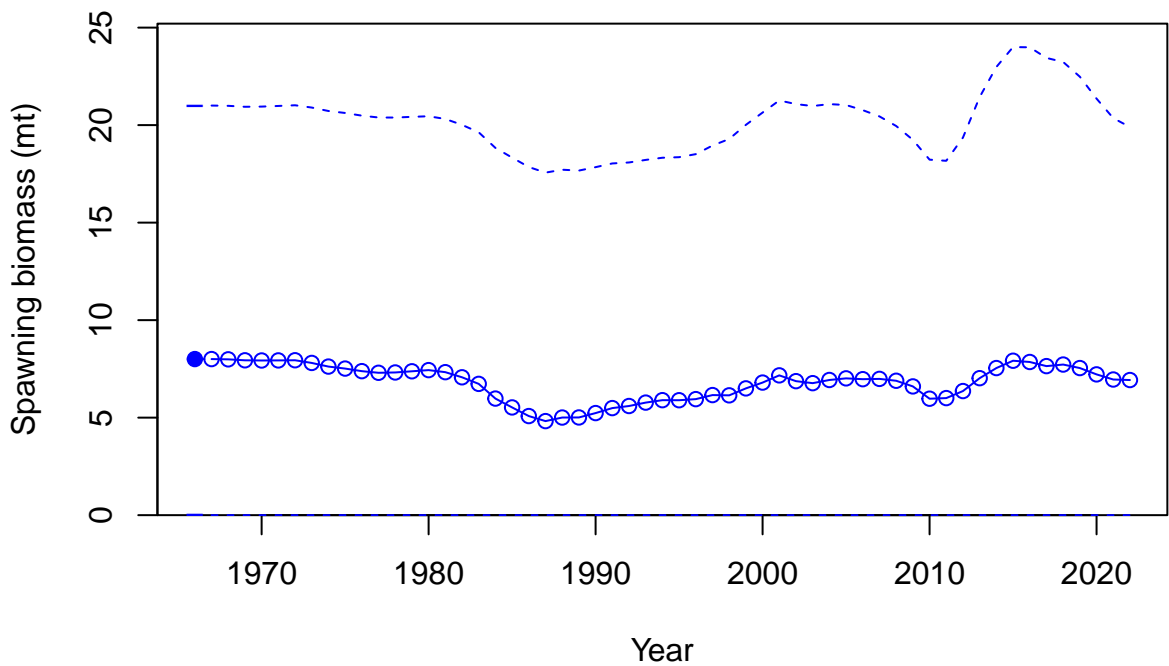
Selectivity



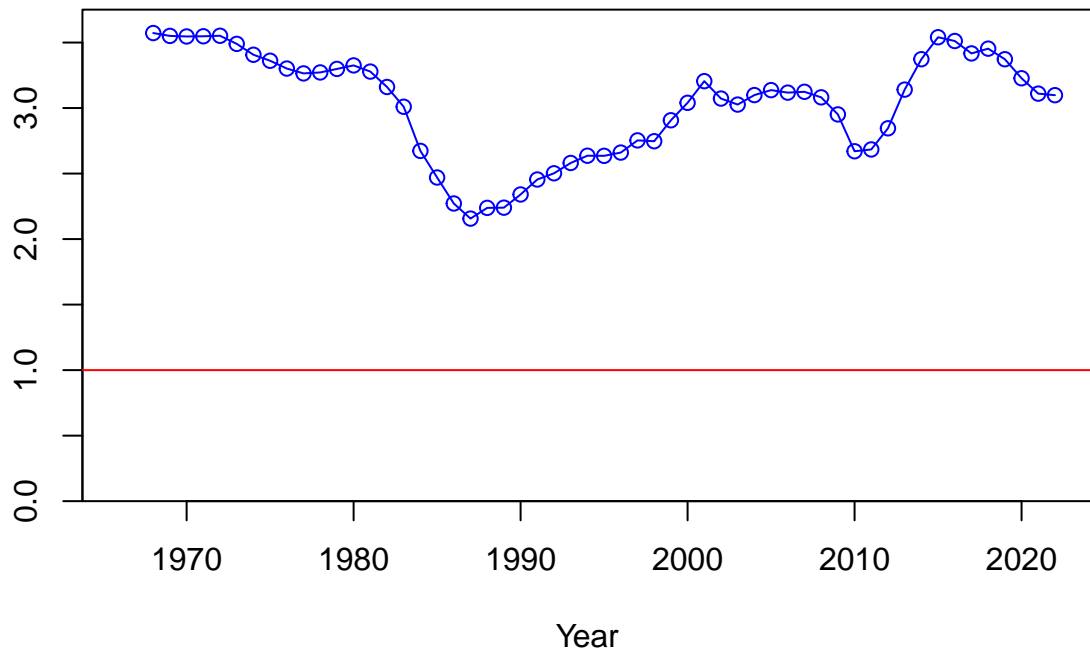


Spawning biomass (mt)

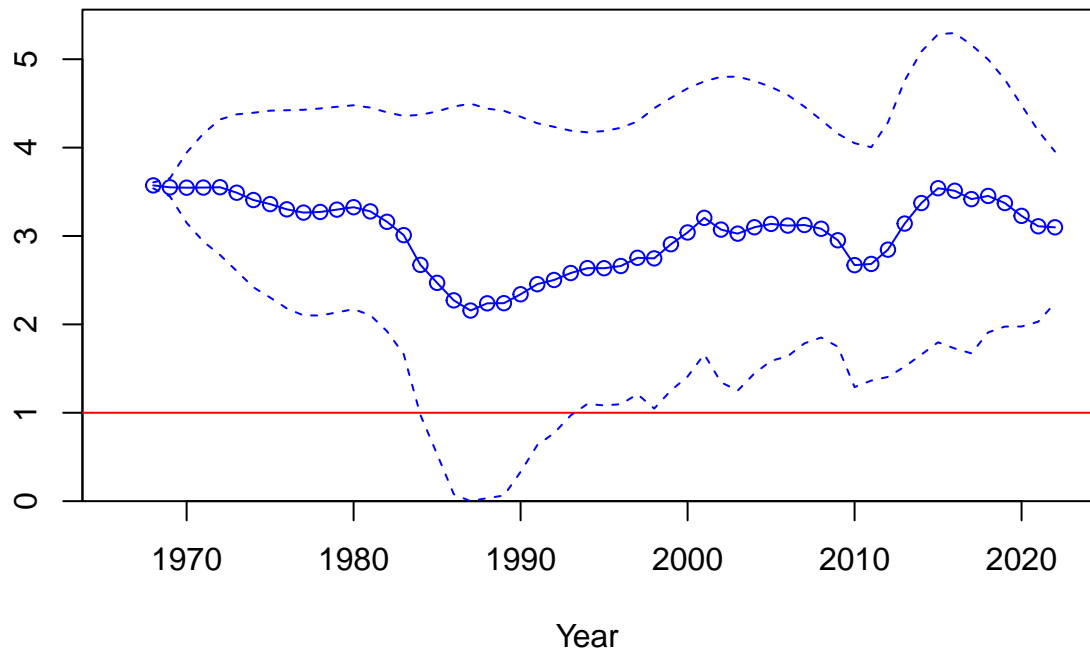


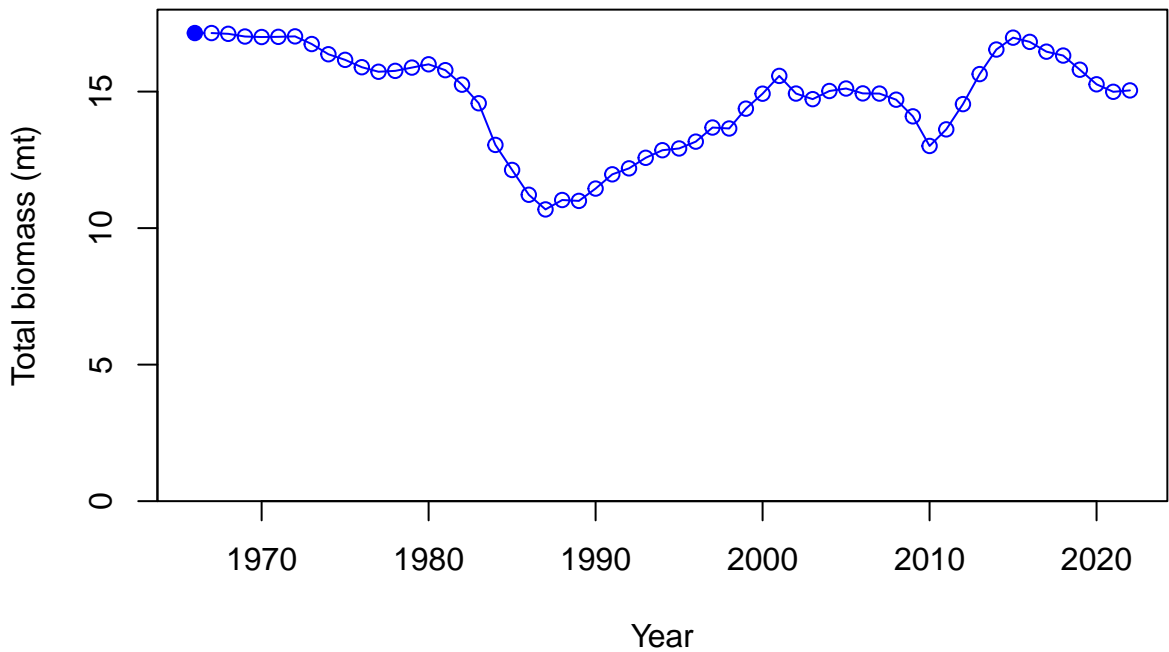


Relative spawning biomass: B/B_{MSY}

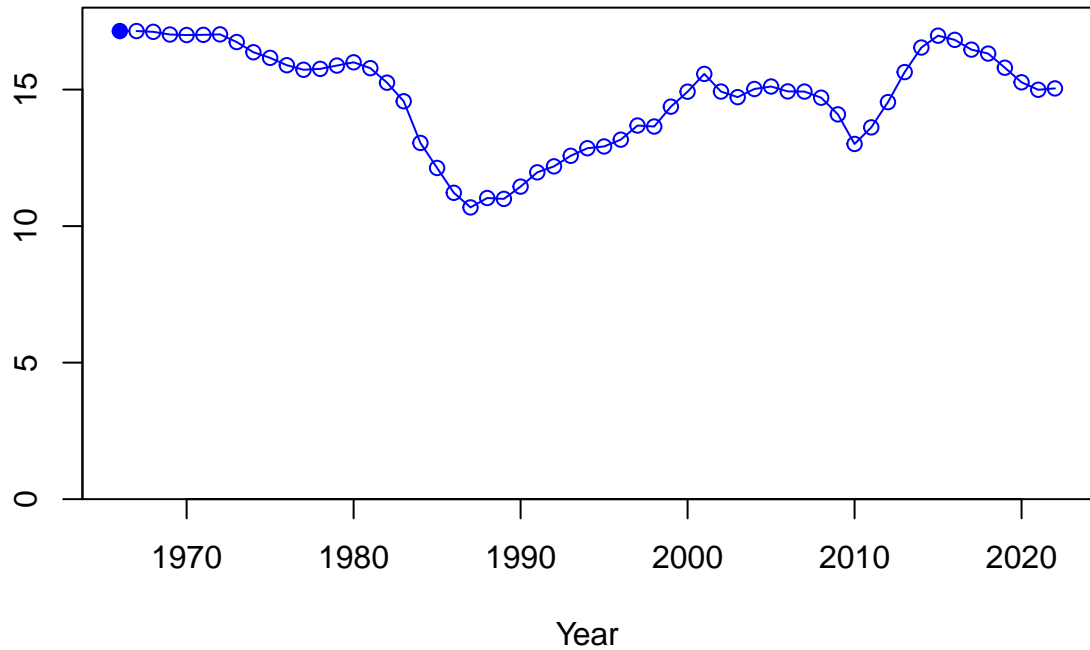


Relative spawning biomass: B/B_{MSY}

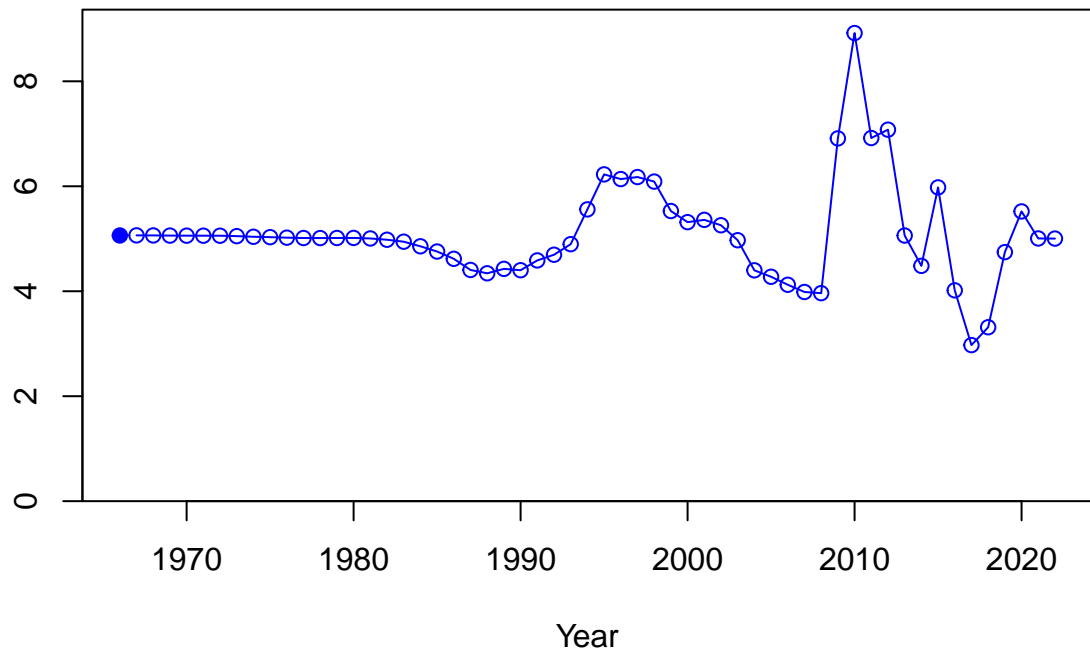




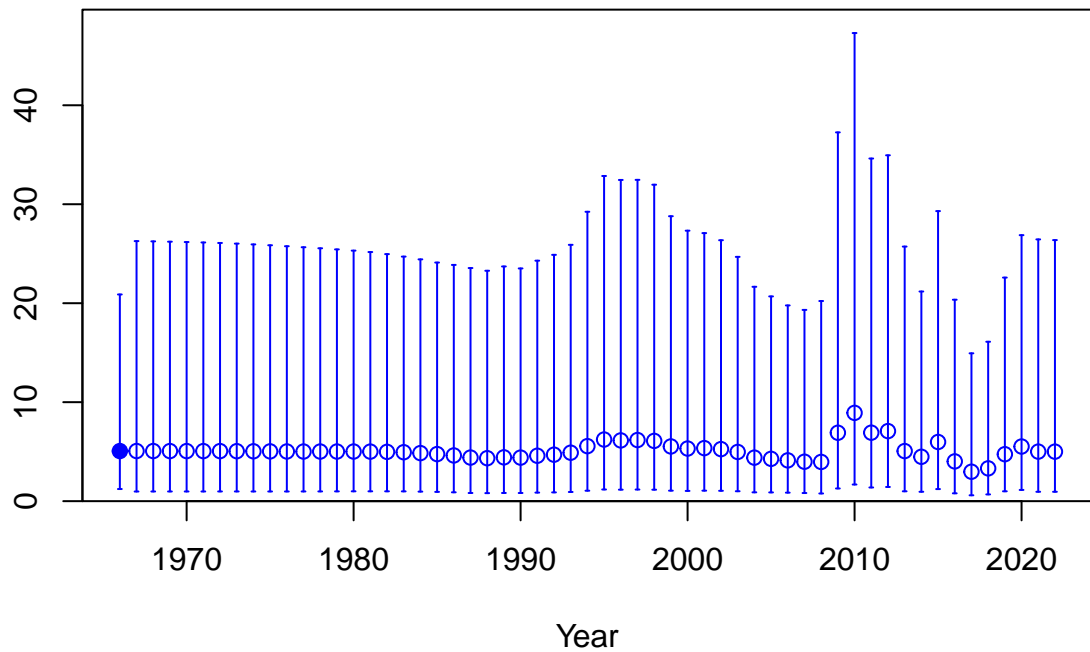
Summary biomass (mt)



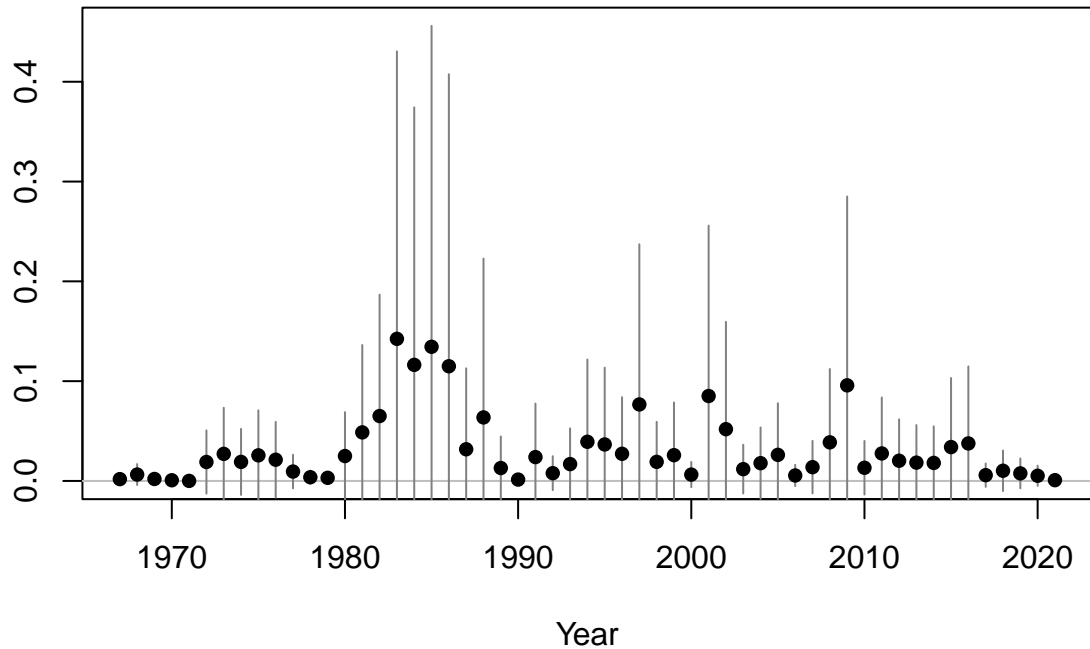
Age-0 recruits (1,000s)

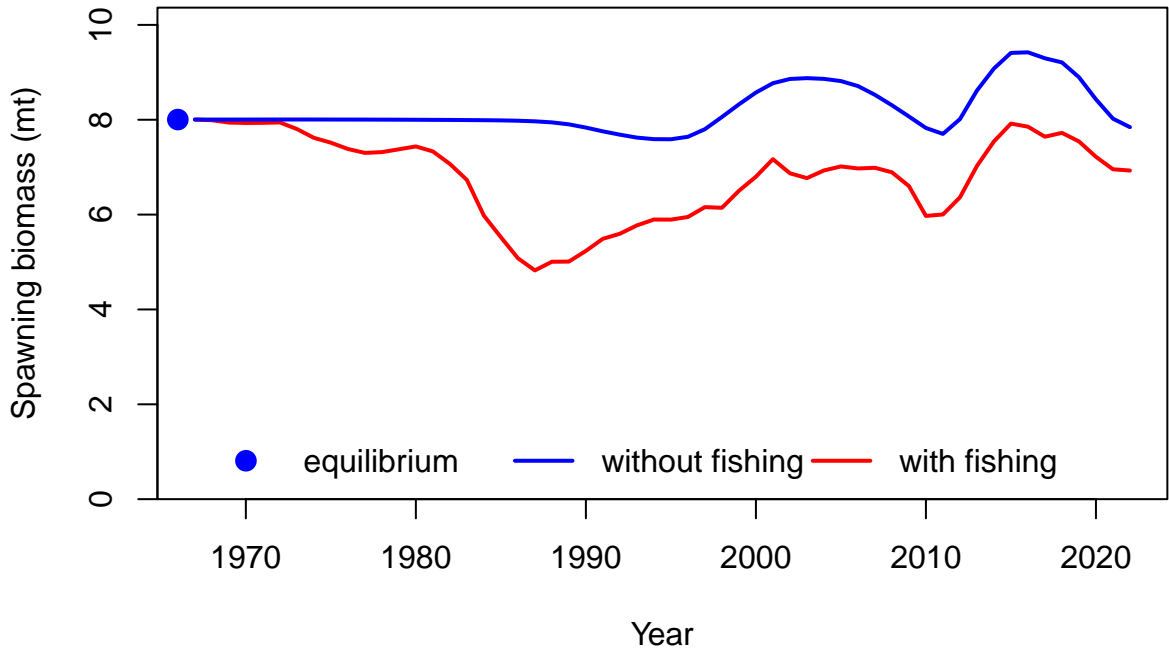


Age-0 recruits (1,000s)

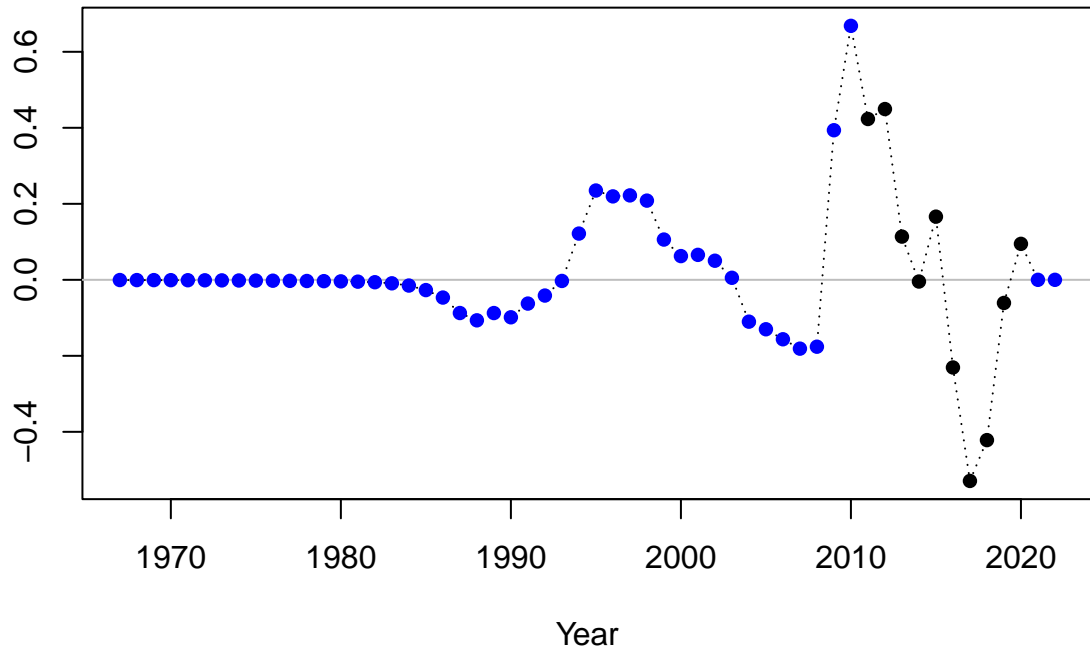


Summary Fishing Mortality

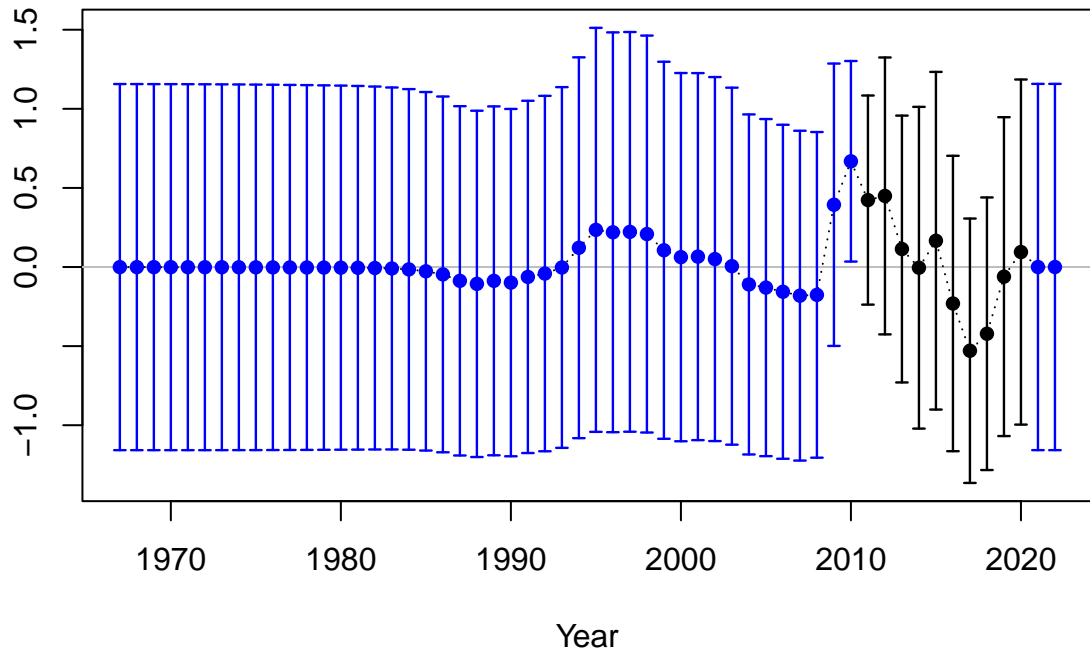




Log recruitment deviation

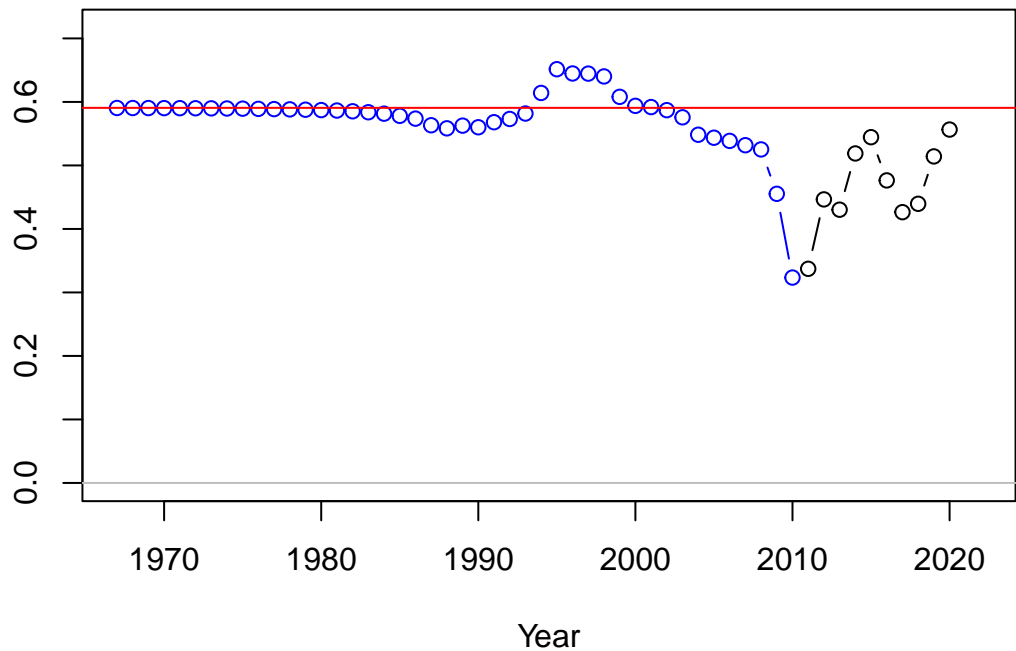


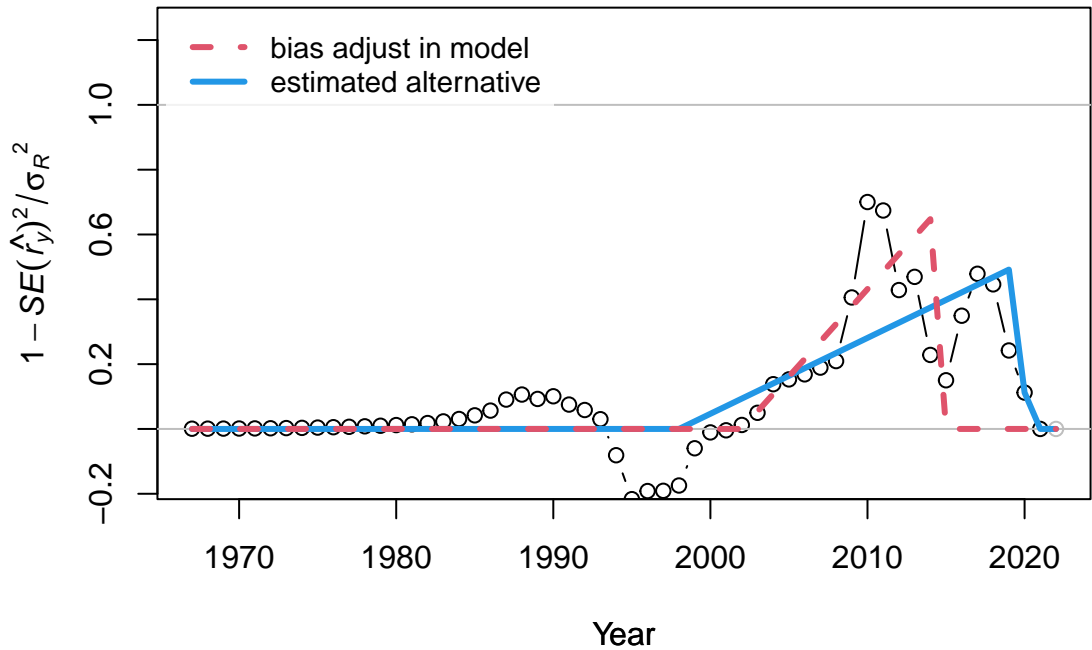
Log recruitment deviation

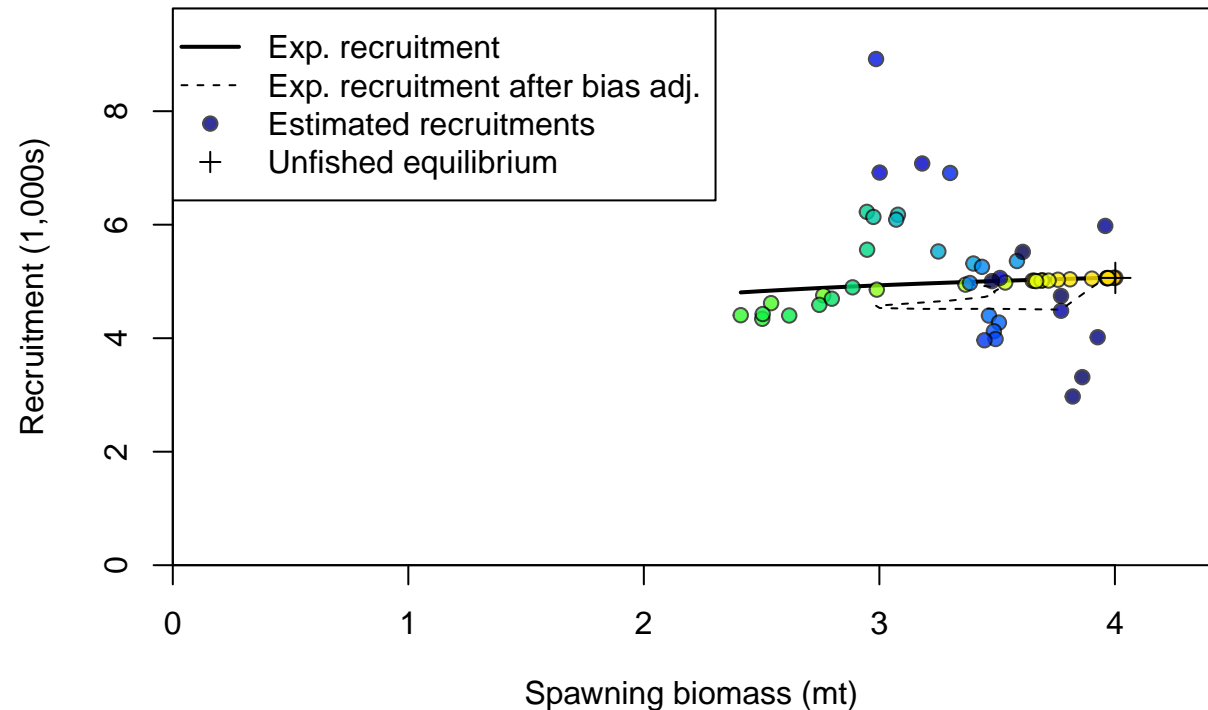


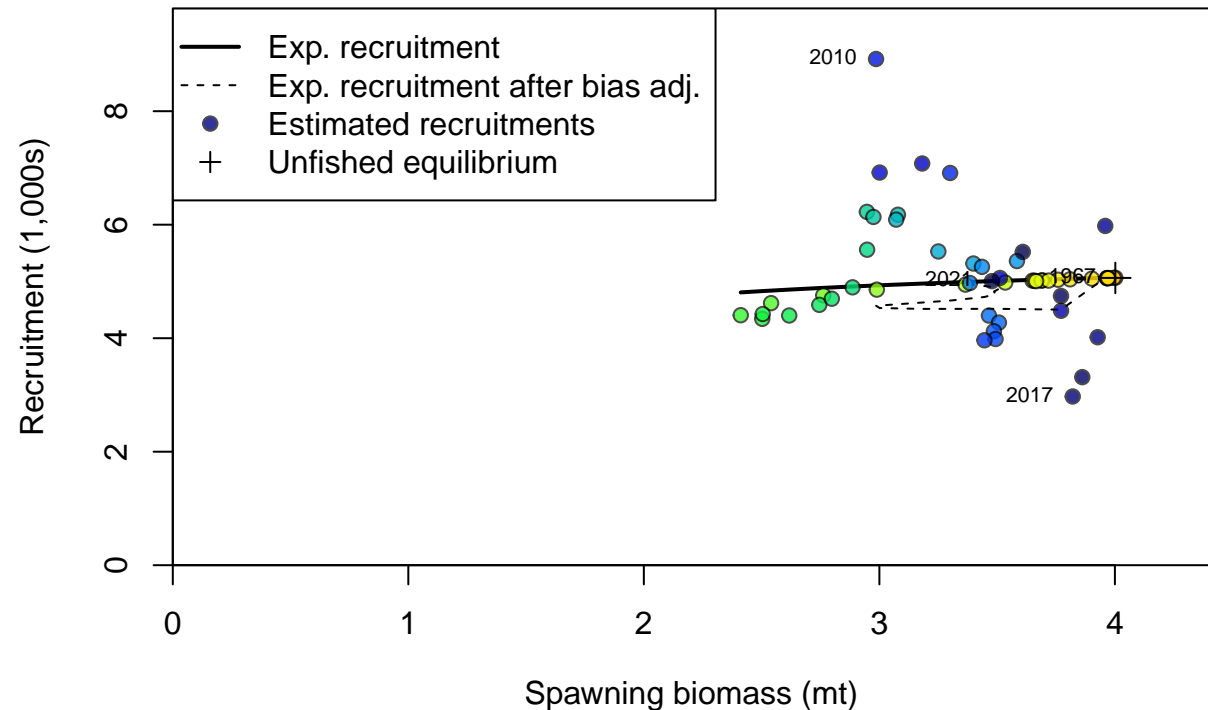
Recruitment deviation variance

Asymptotic standard error estimate

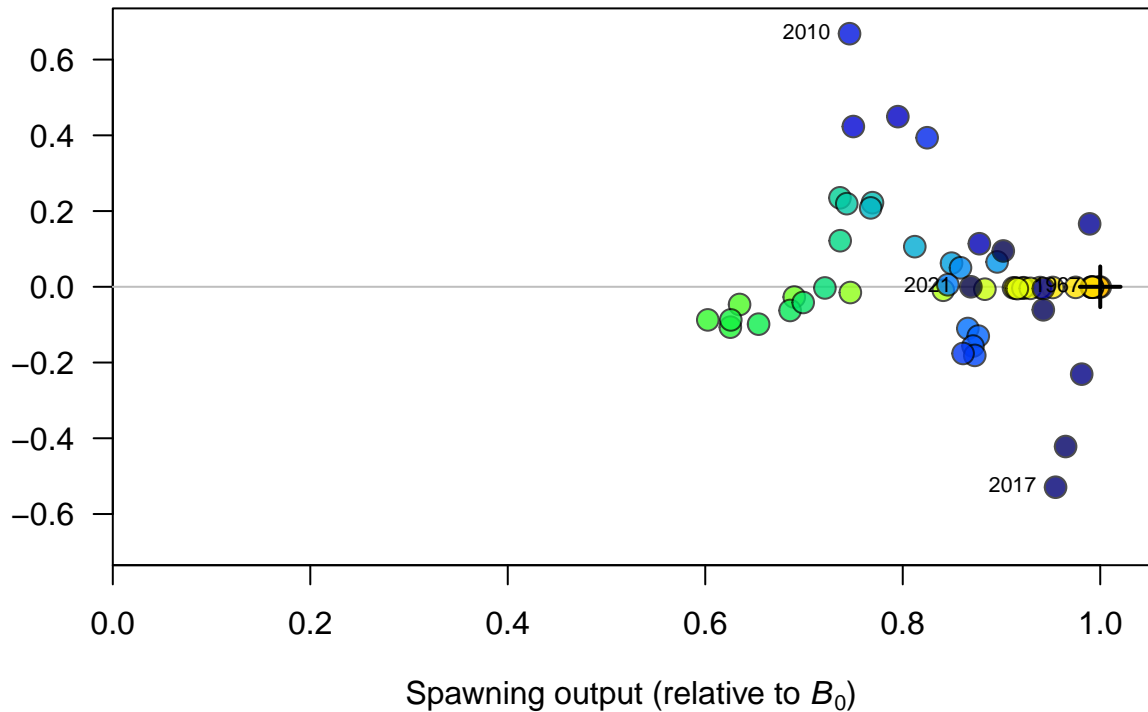


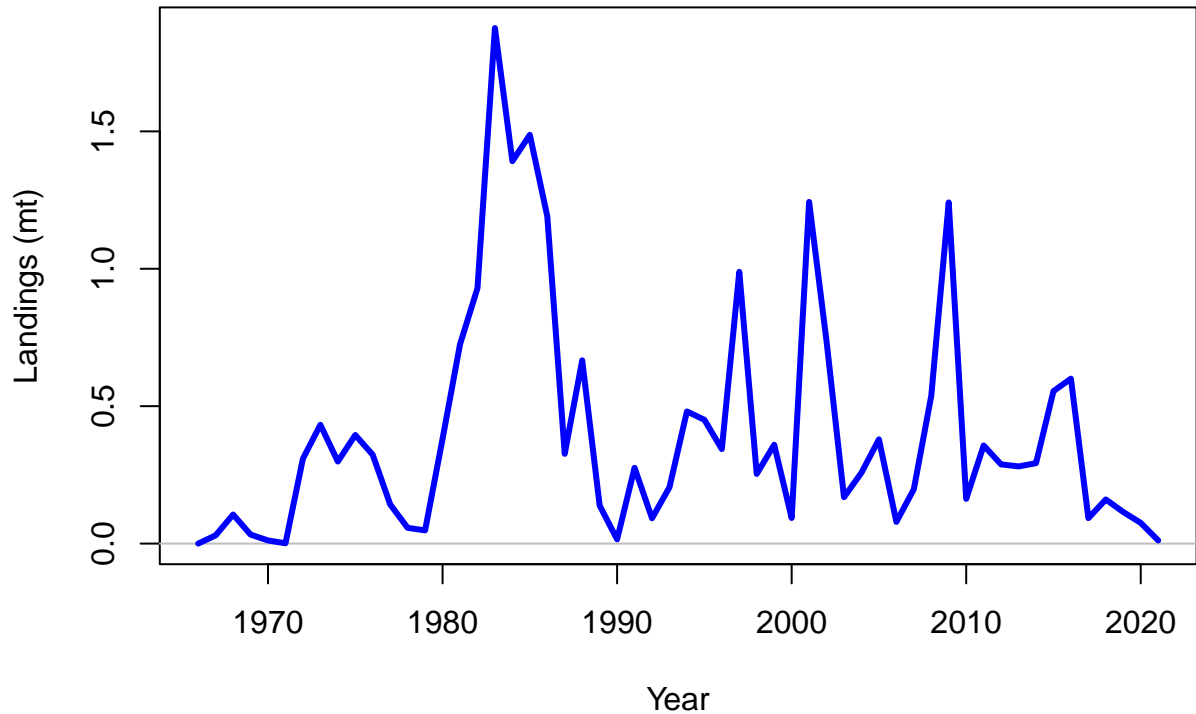


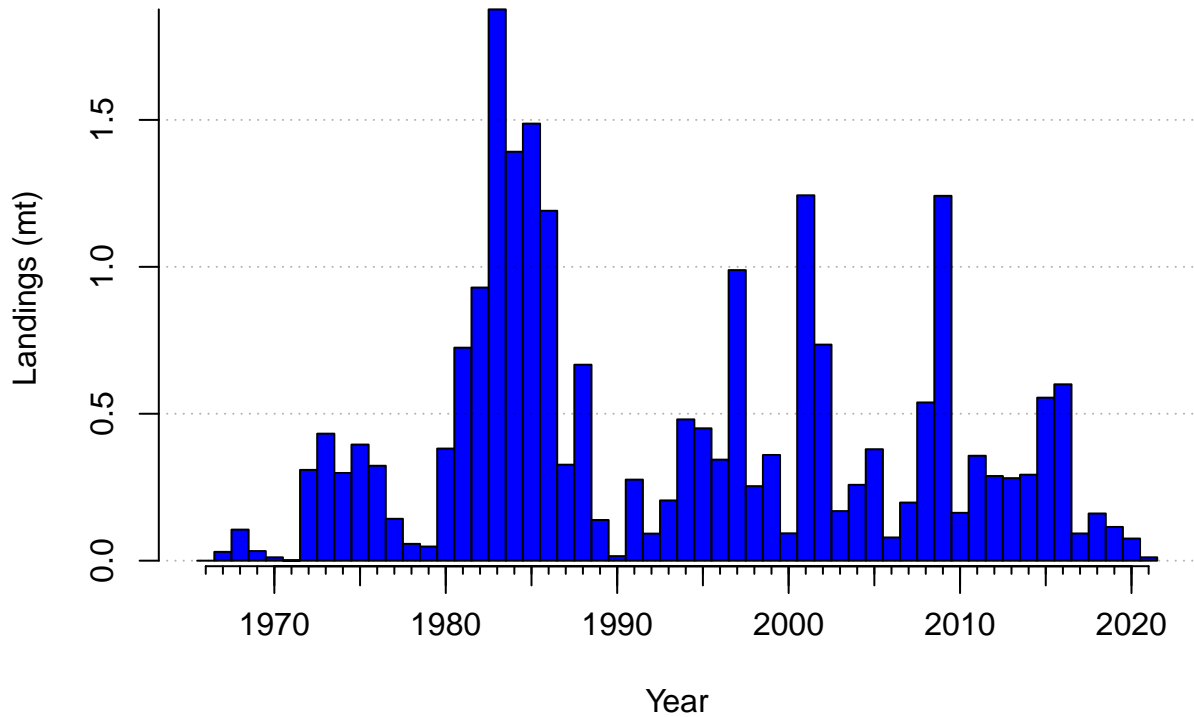


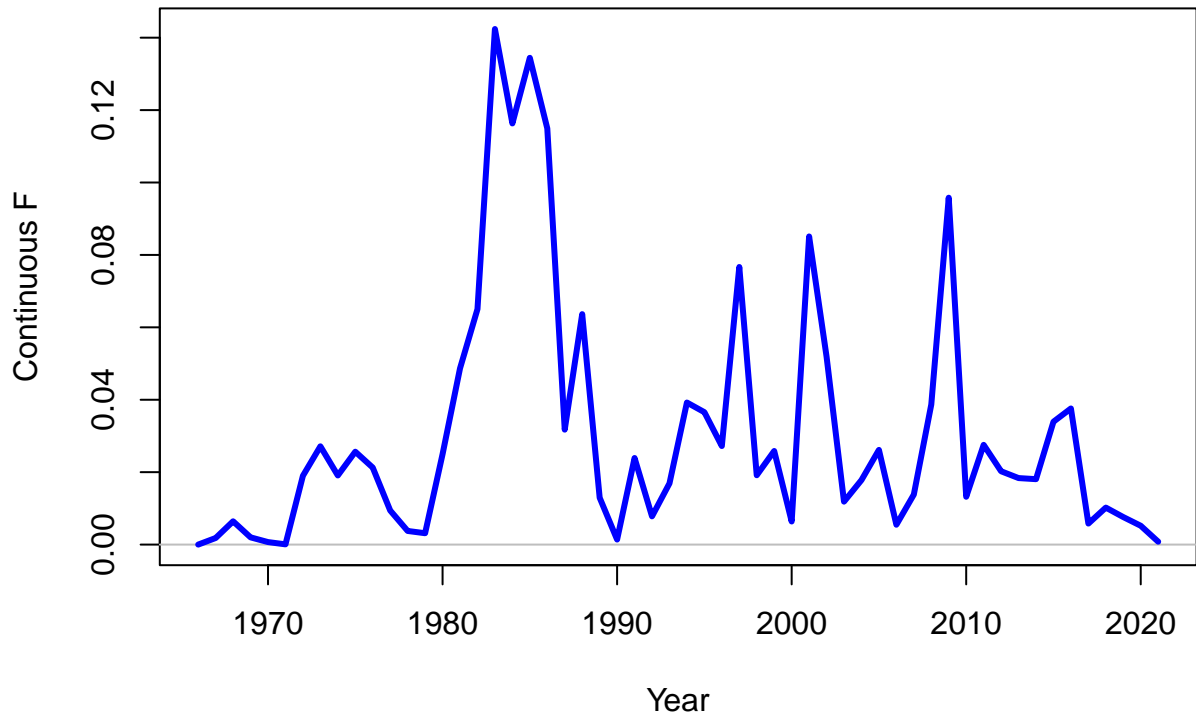


Log recruitment deviation

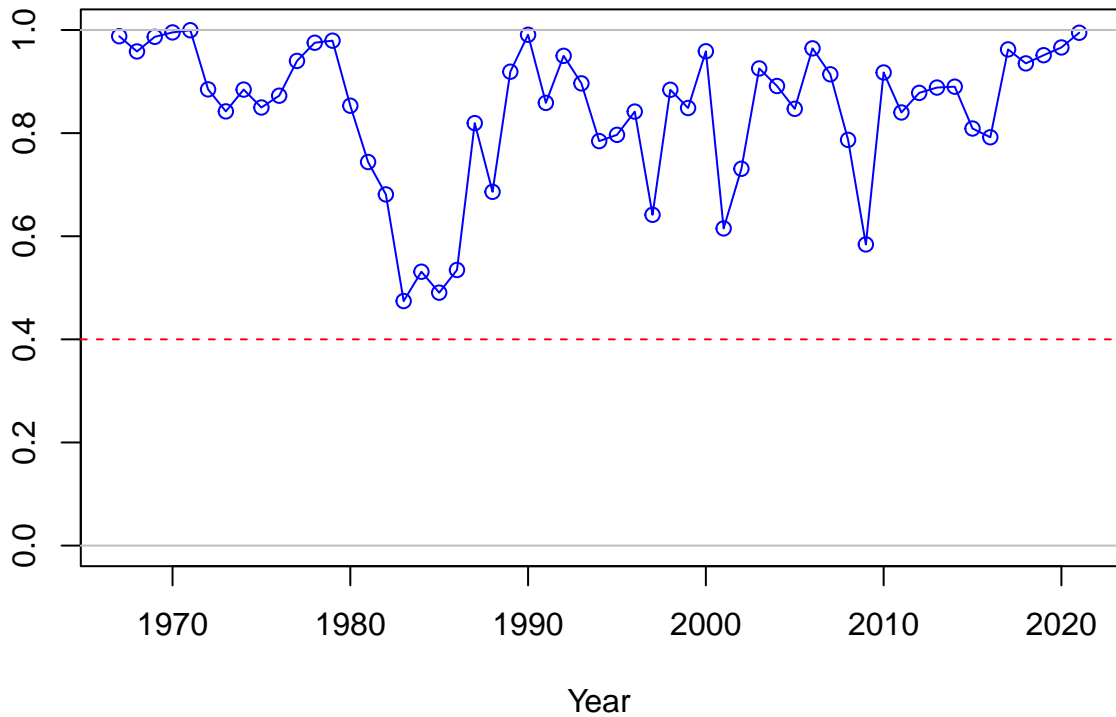




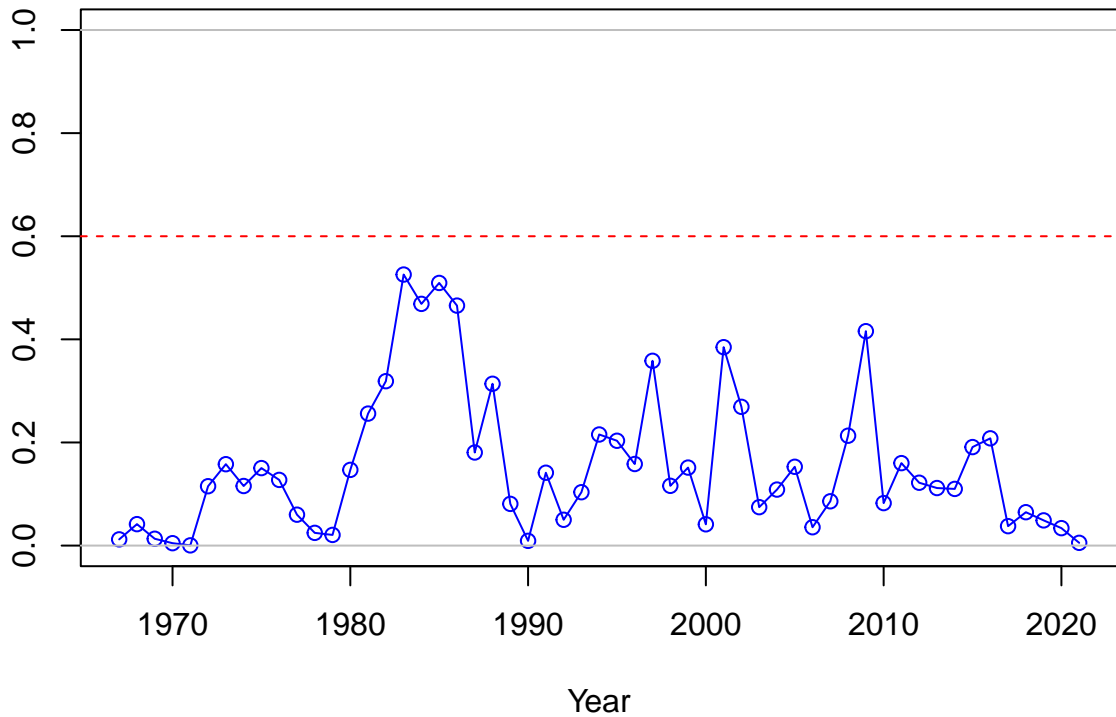




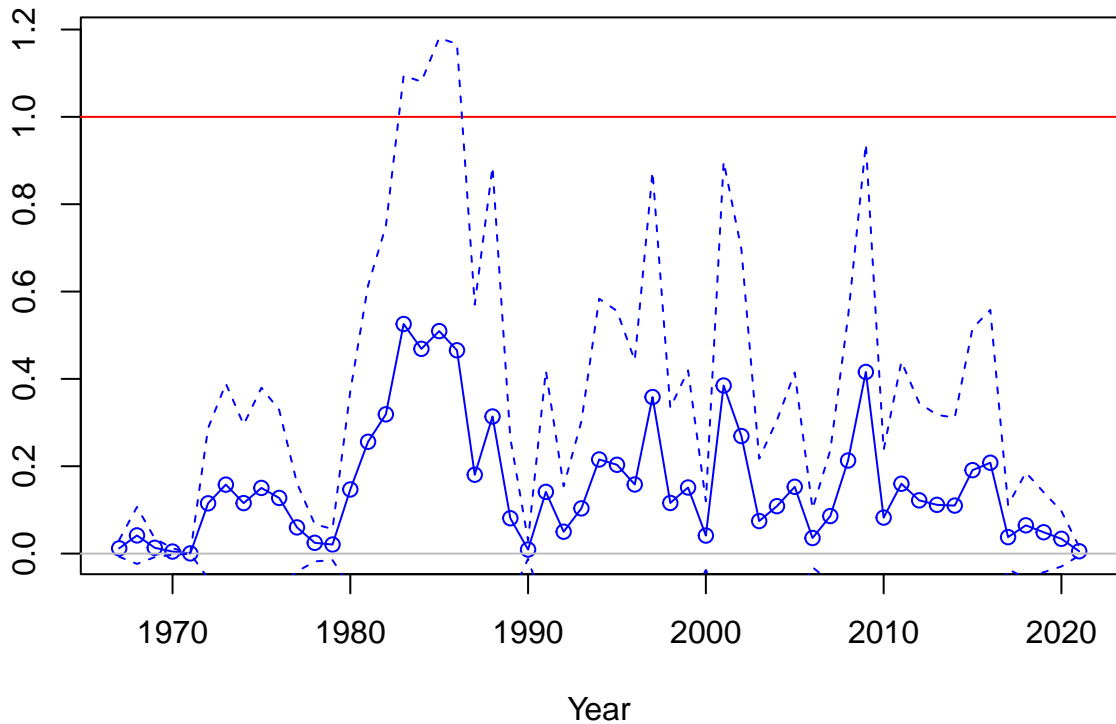
SPR



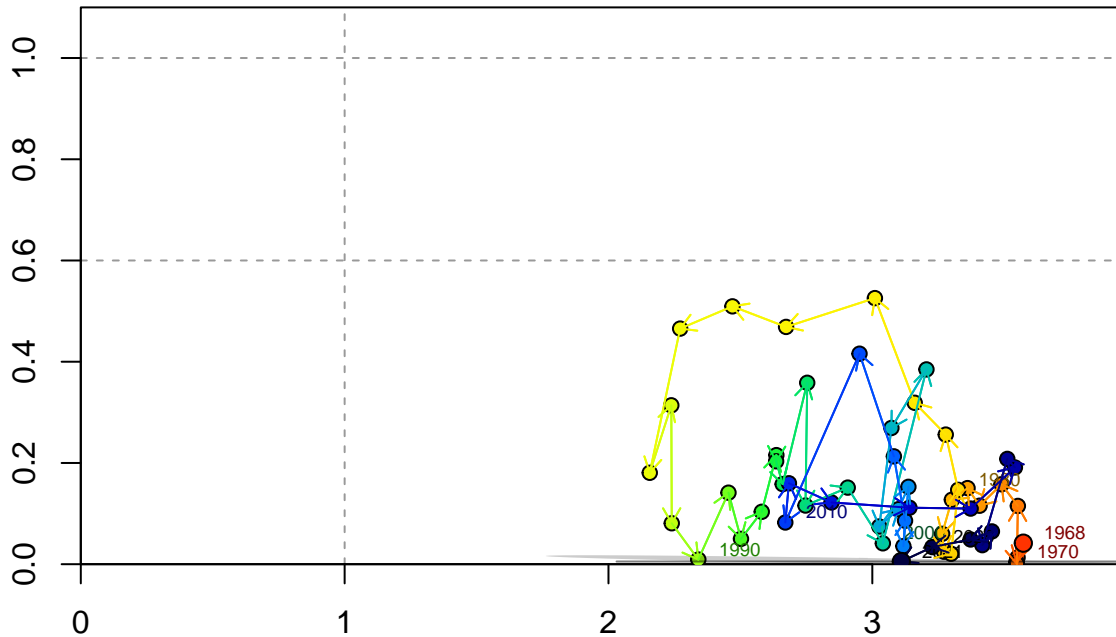
1-SPR



Fishing intensity: 1-SPR



Fishing intensity: 1-SPR



Relative spawning output: B/B_{MSY}

Index

15
10
5
0

1990

1995

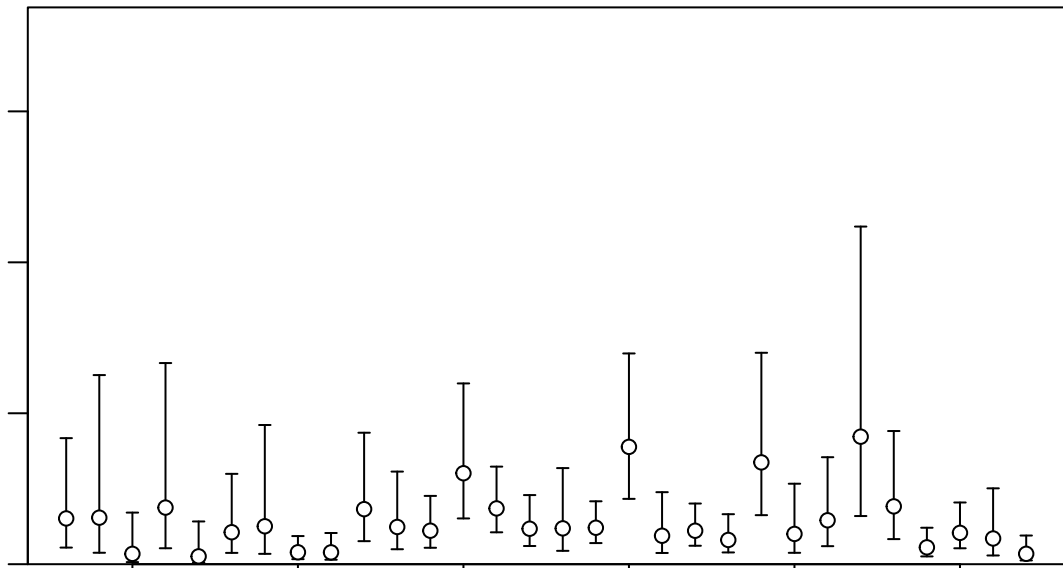
2000

2005

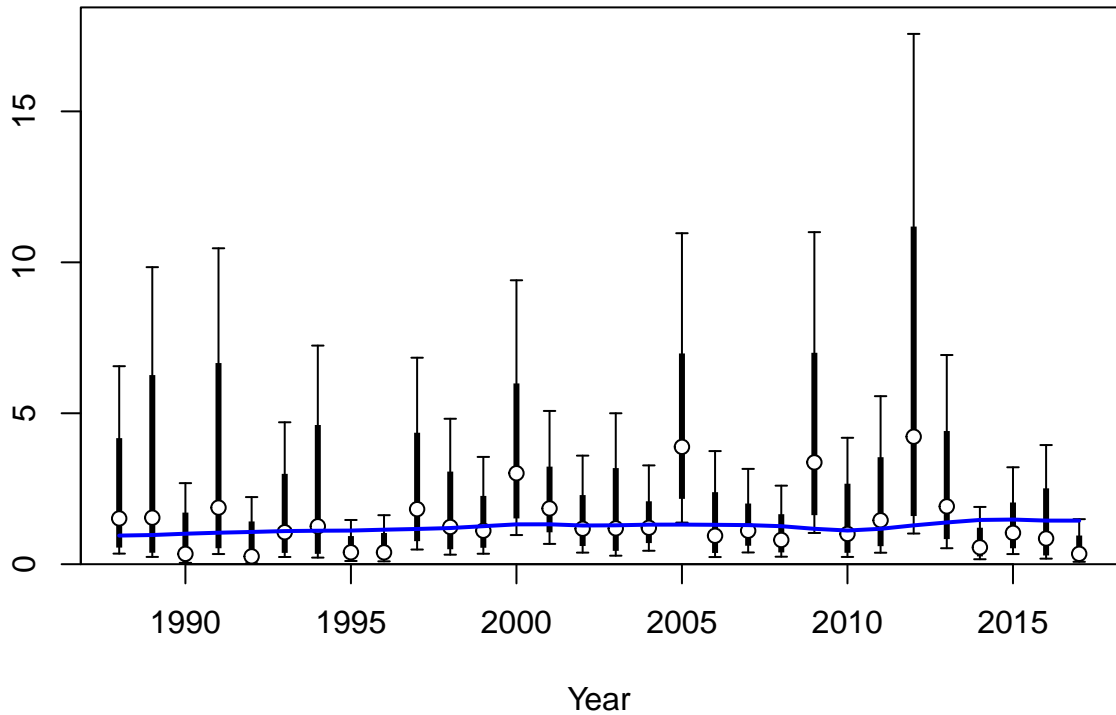
2010

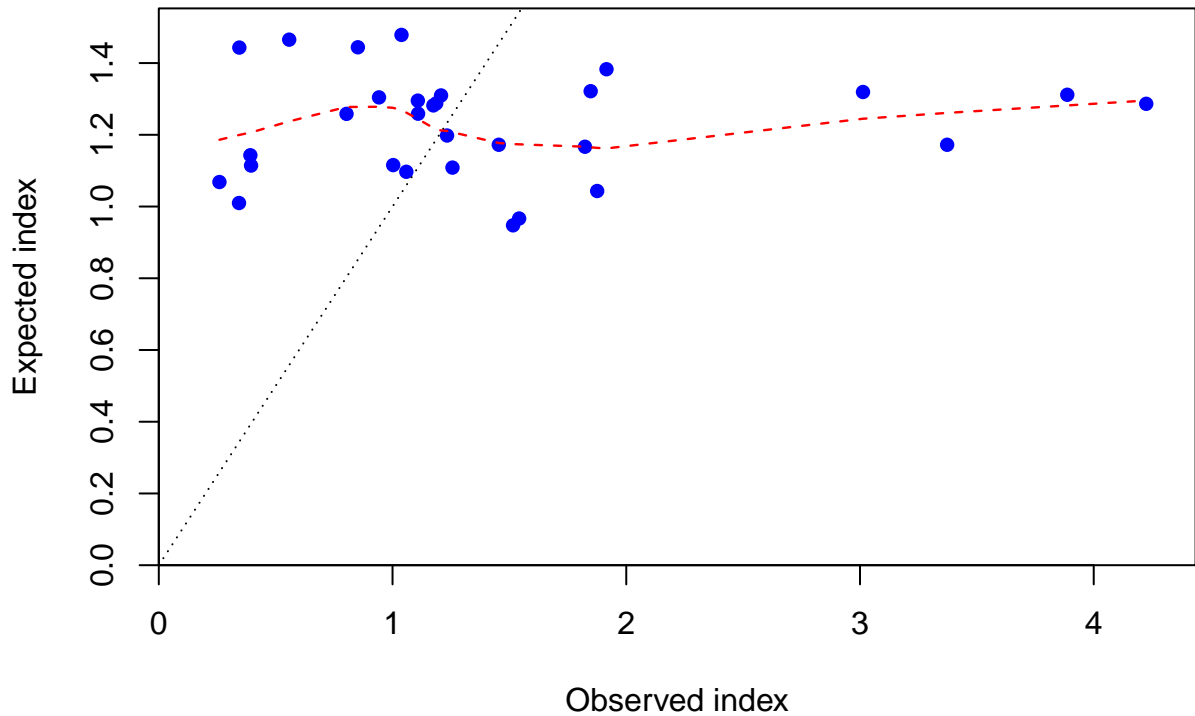
2015

Year

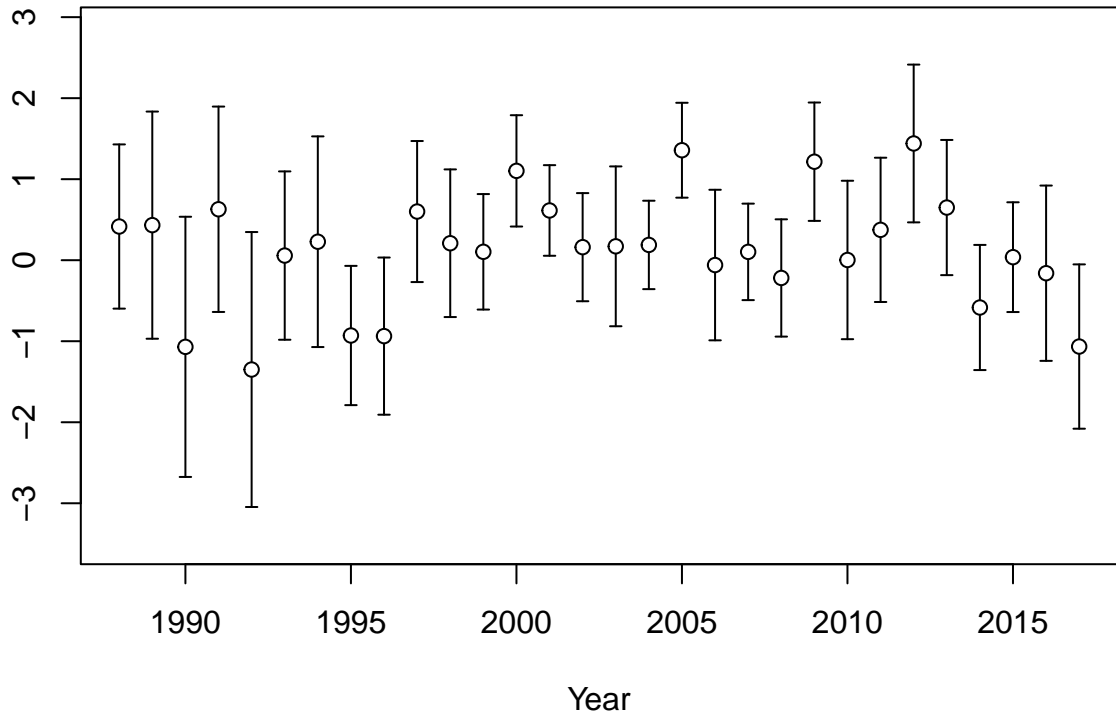


Index

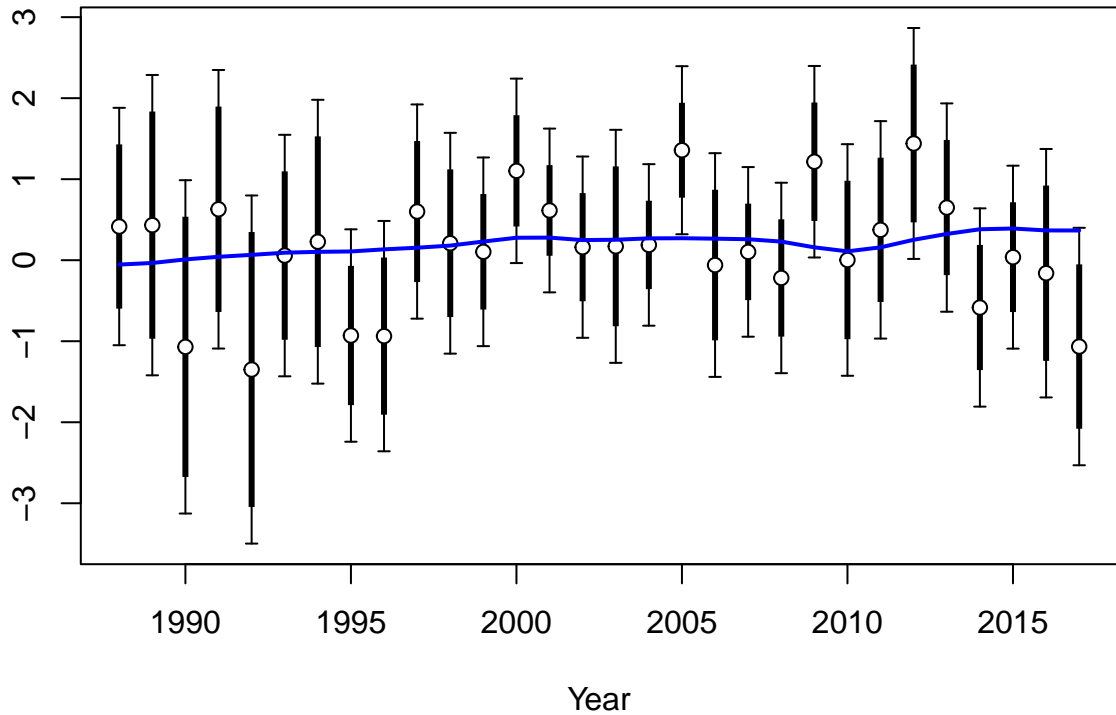




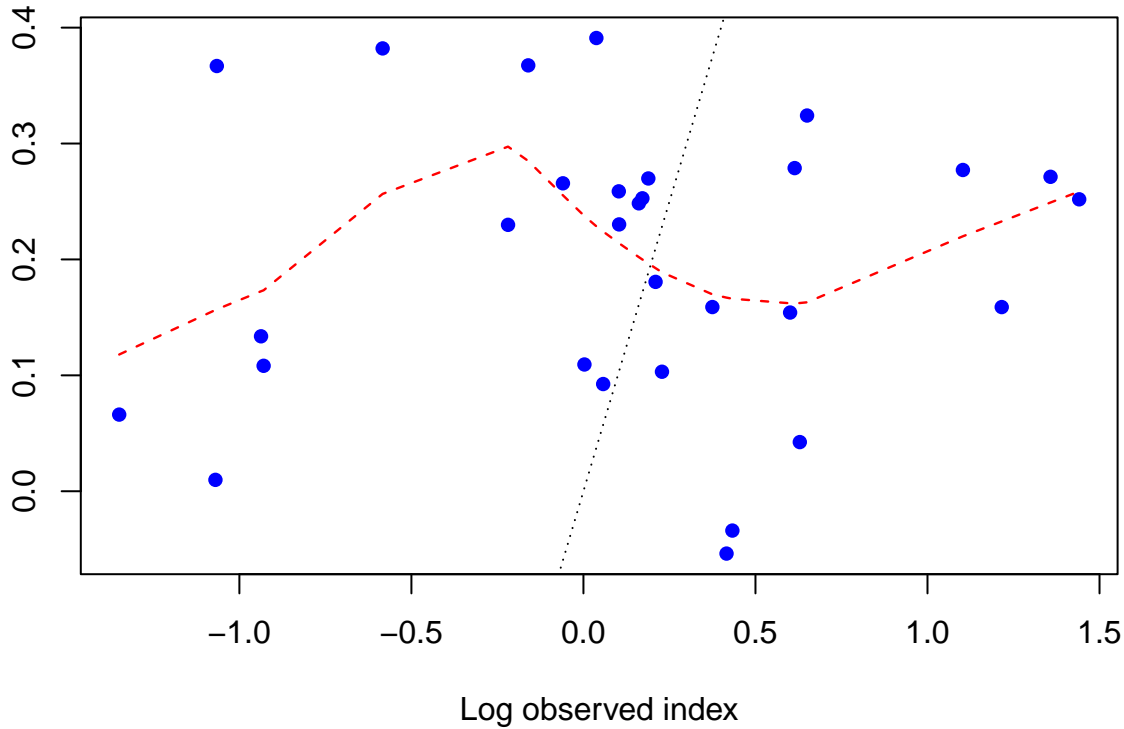
Log index

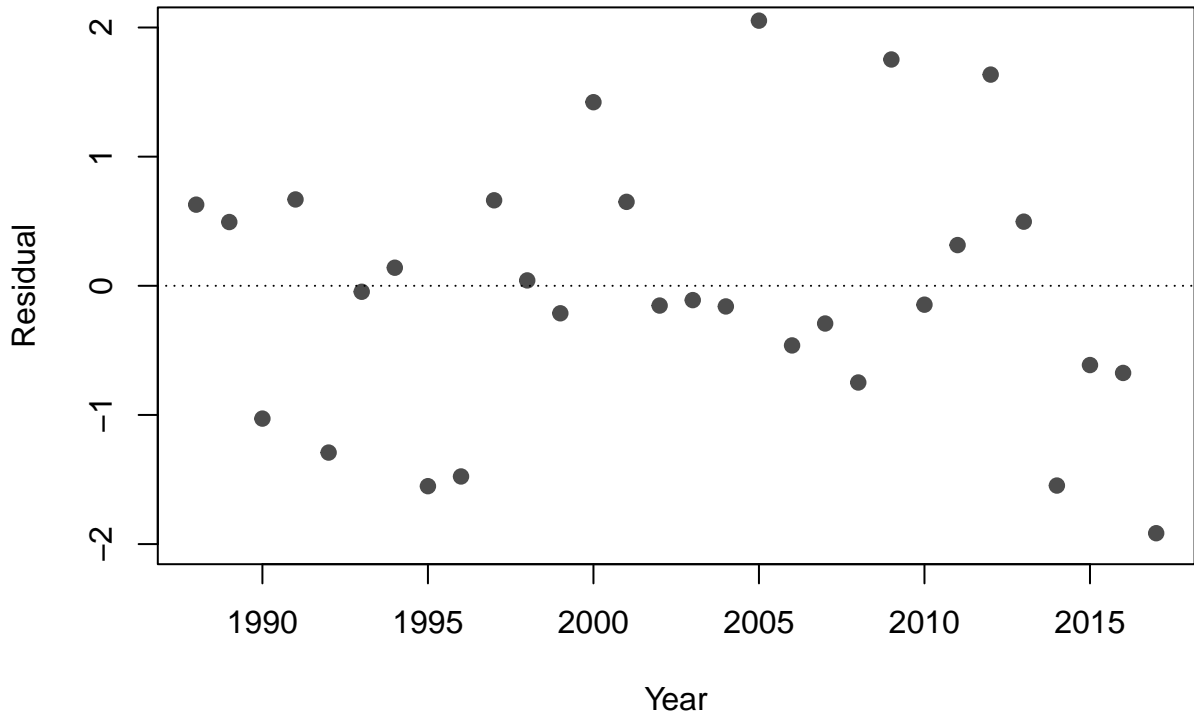


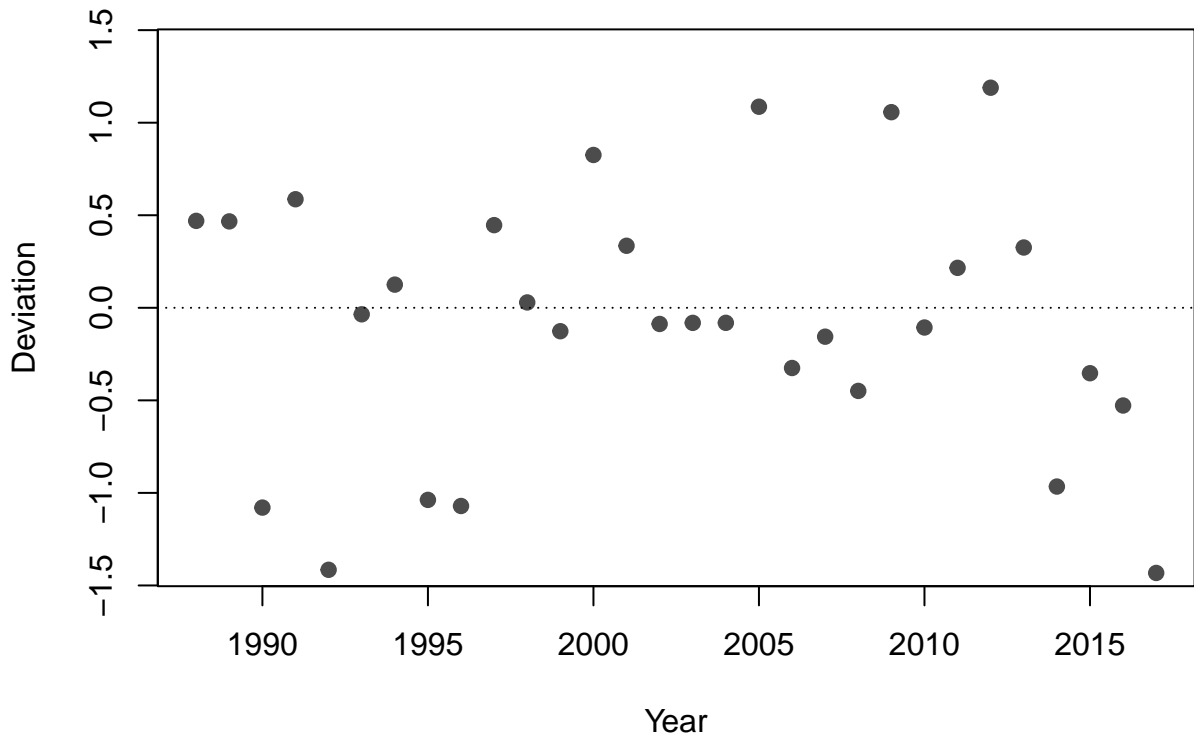
Log index

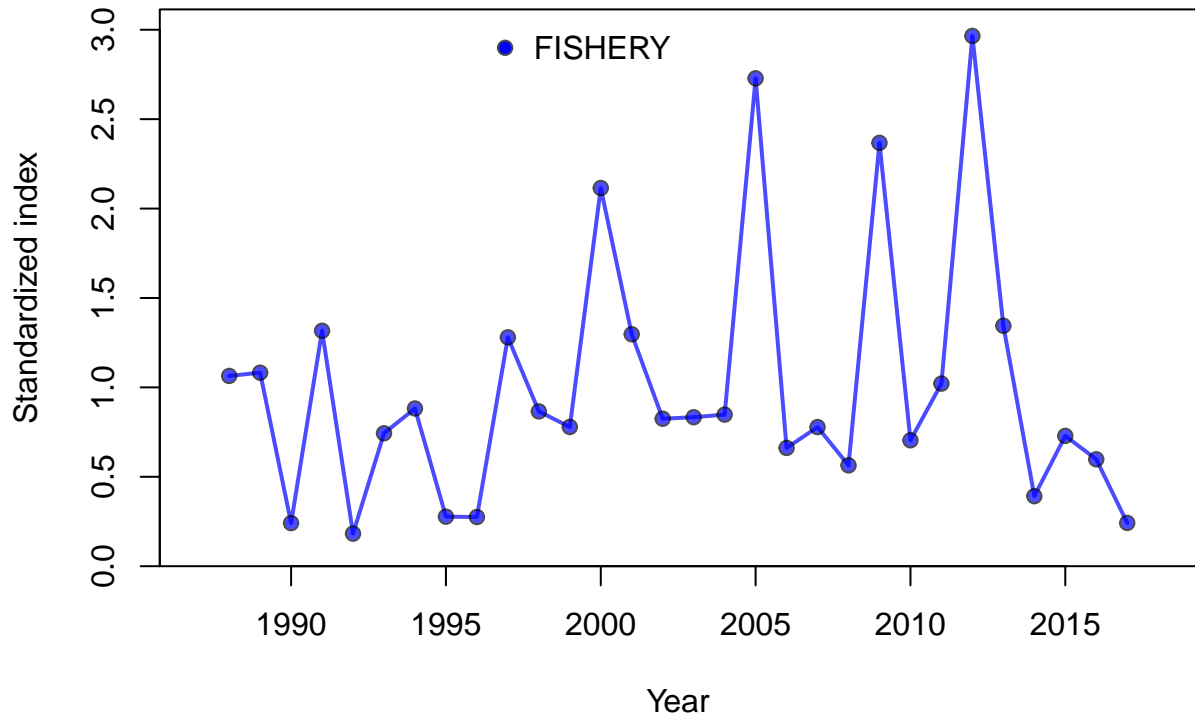


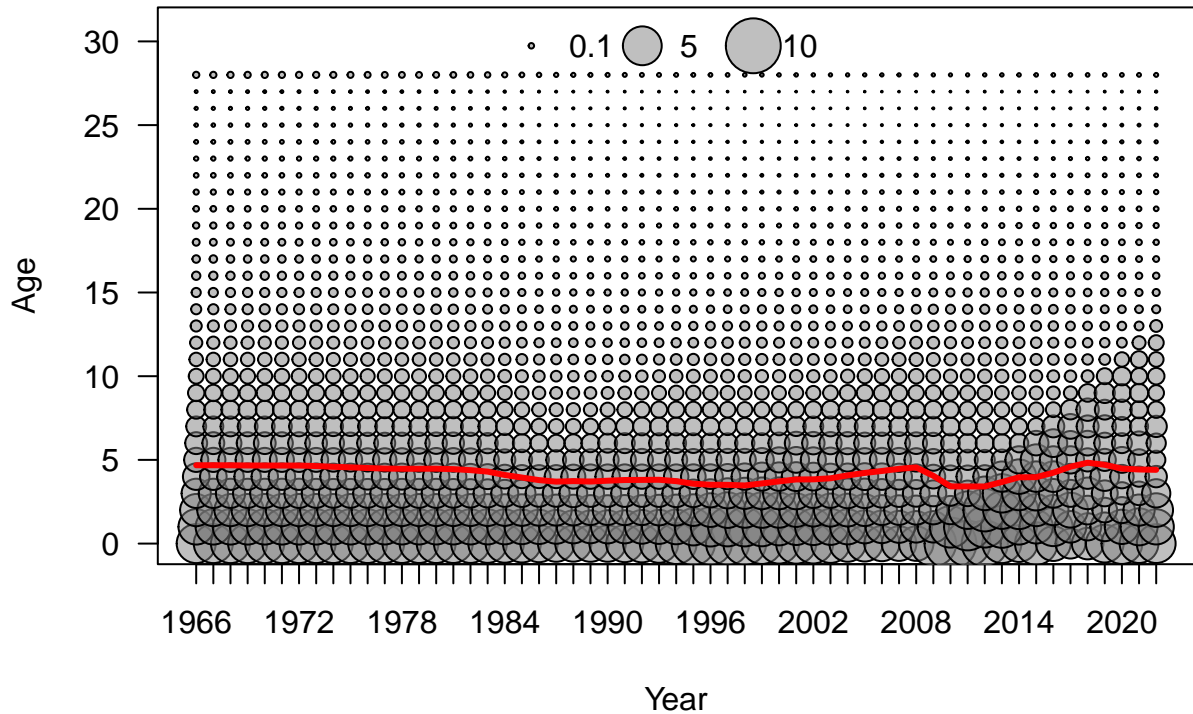
Log expected index

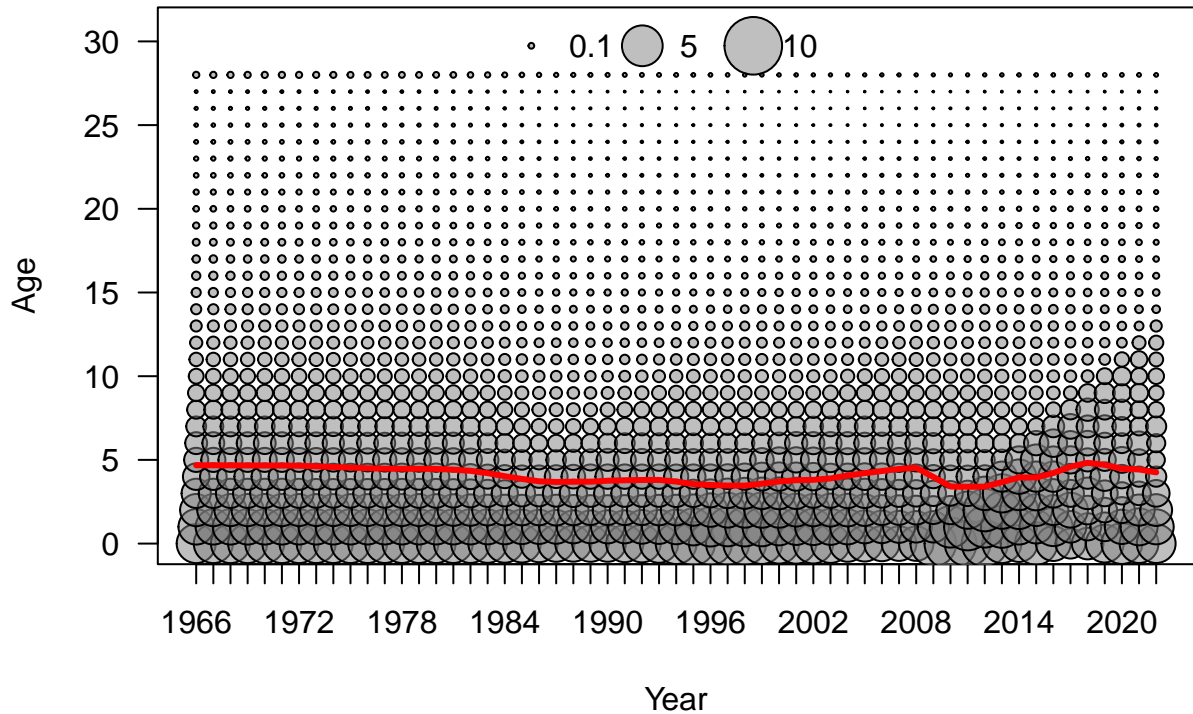


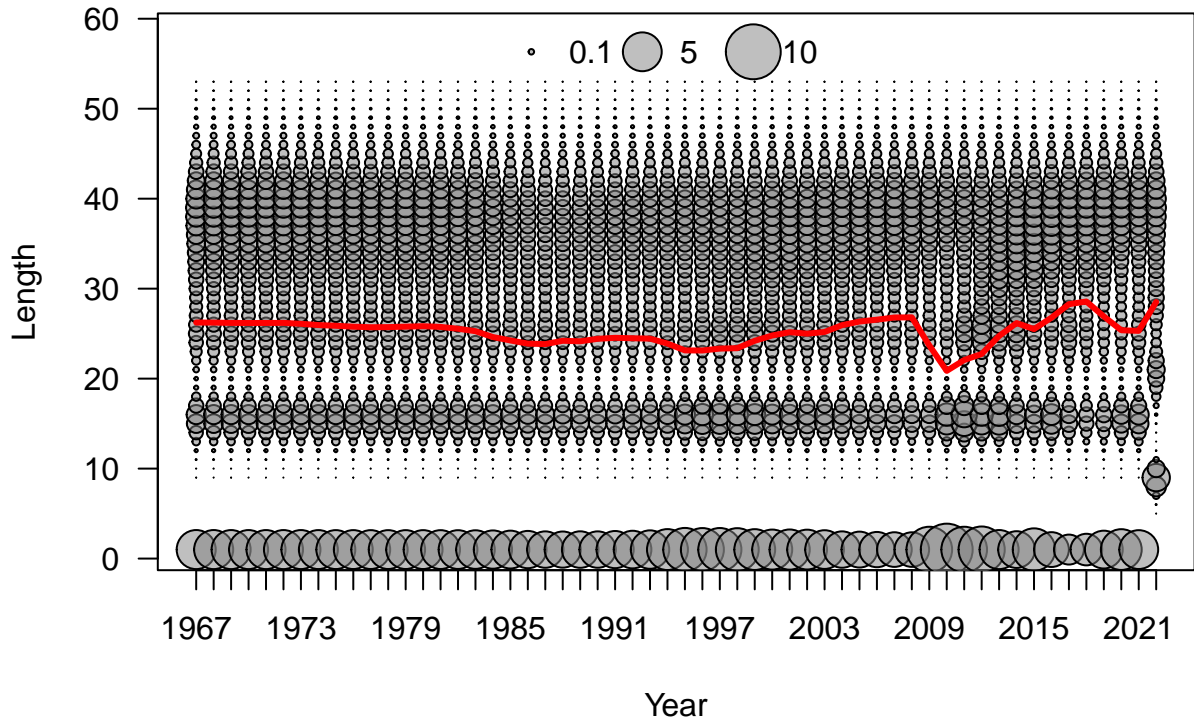


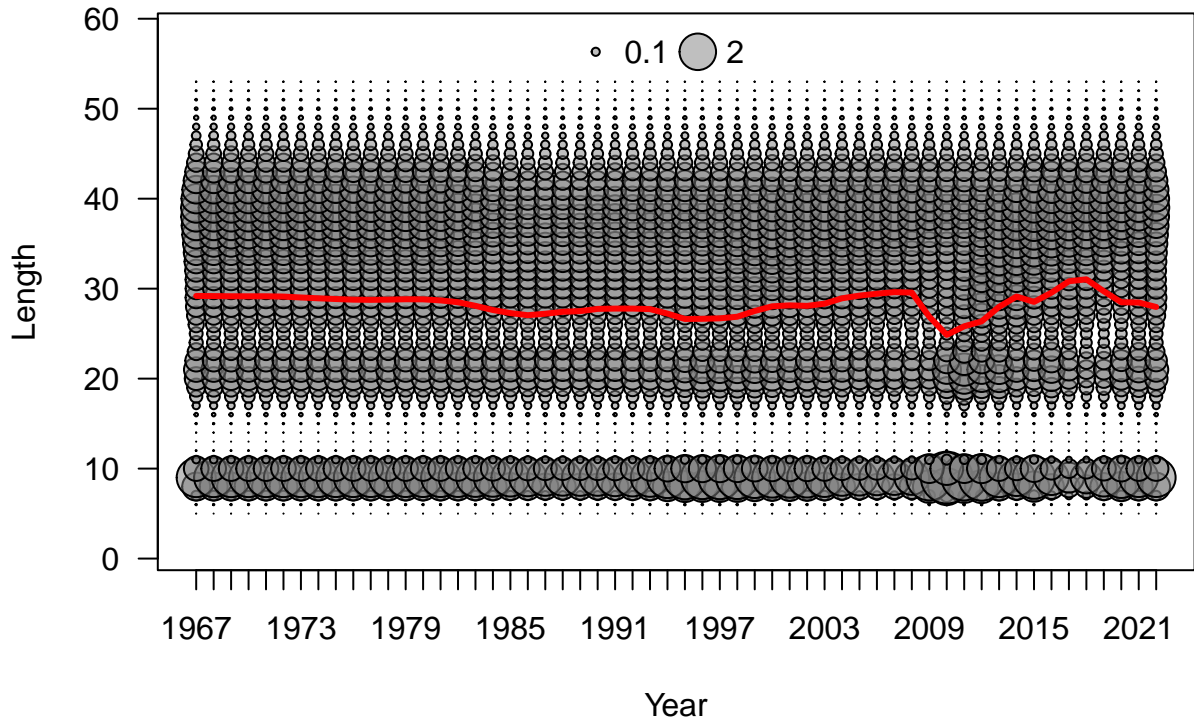


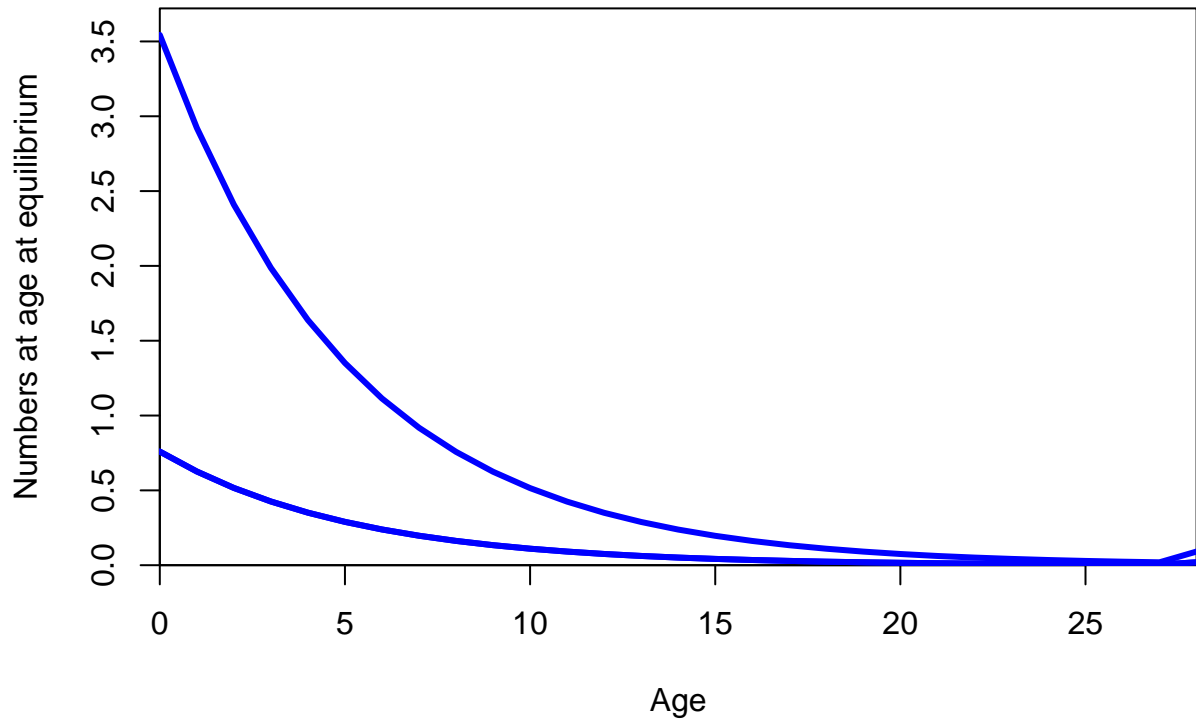


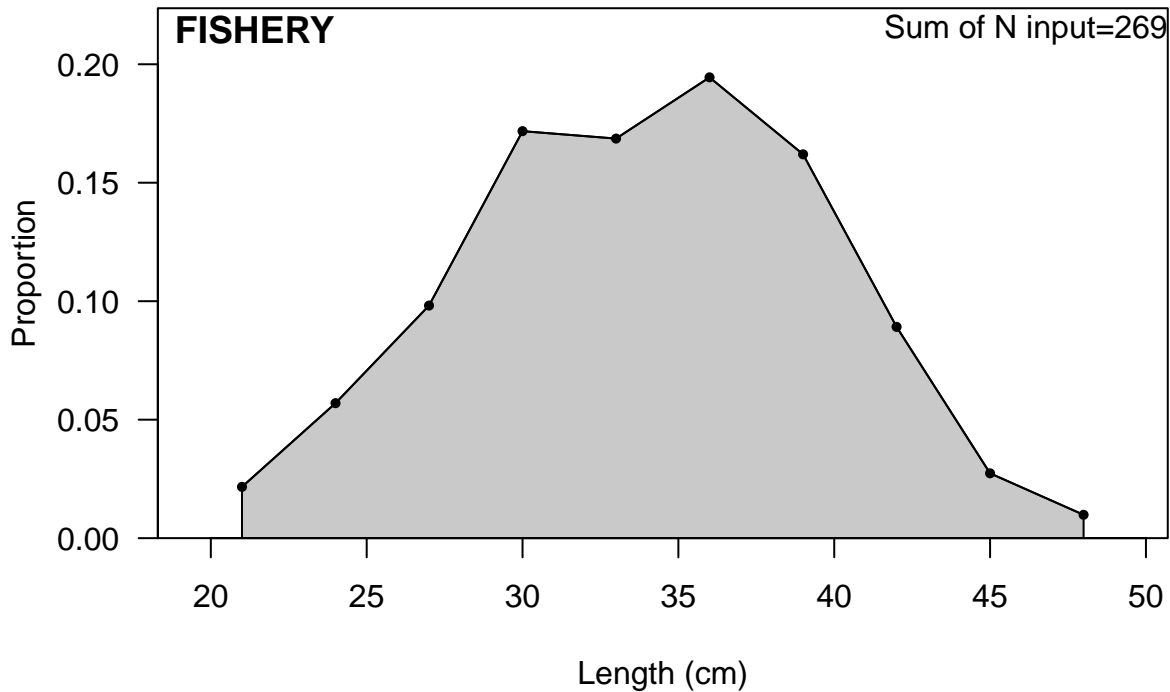


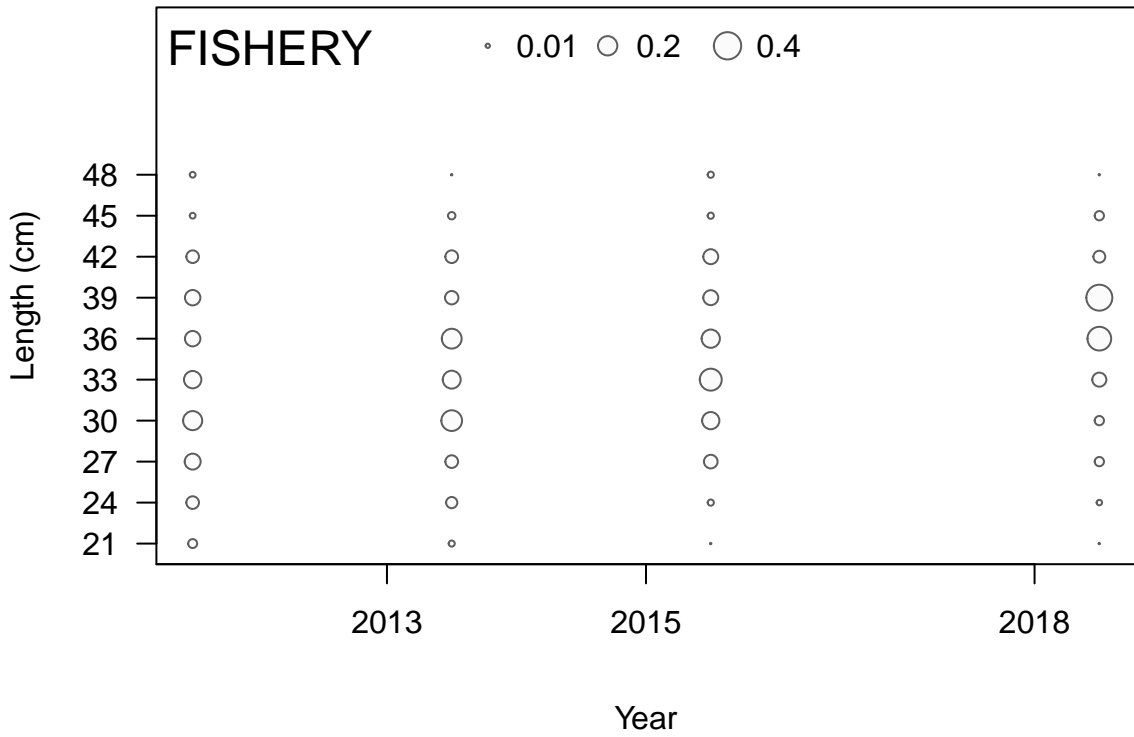


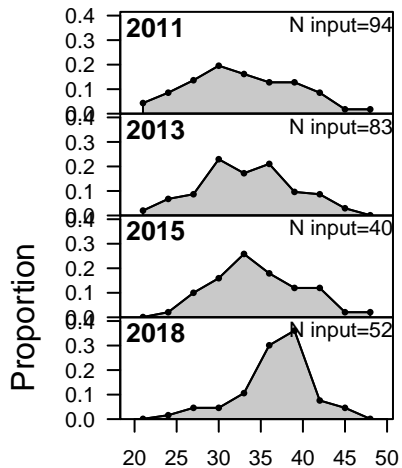




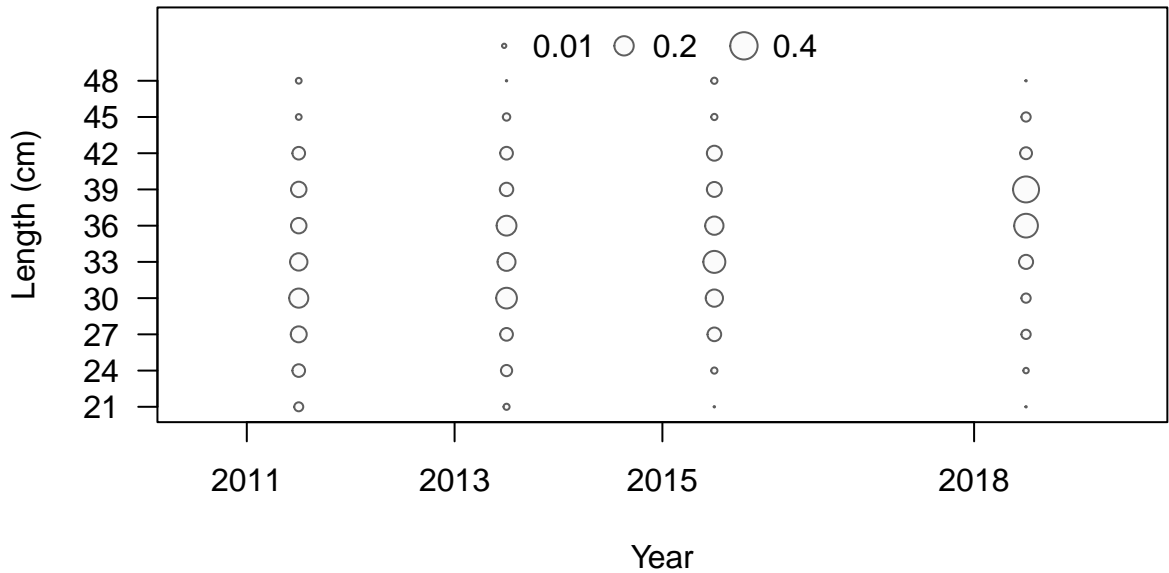




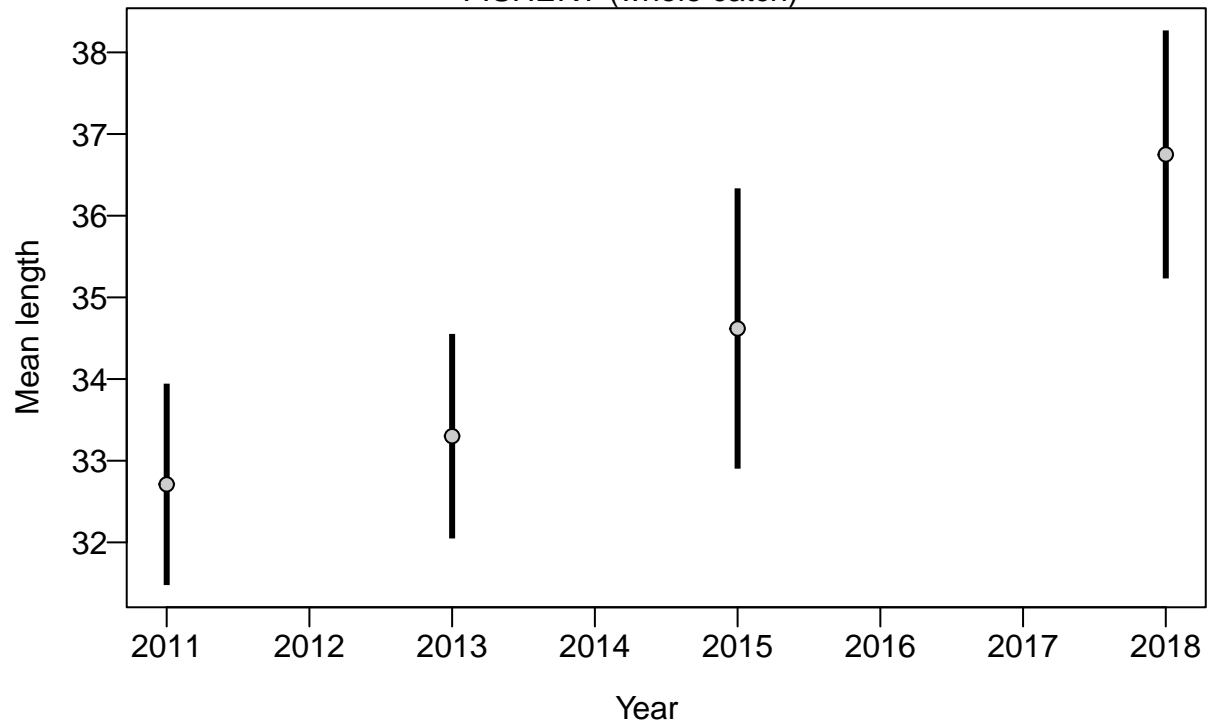




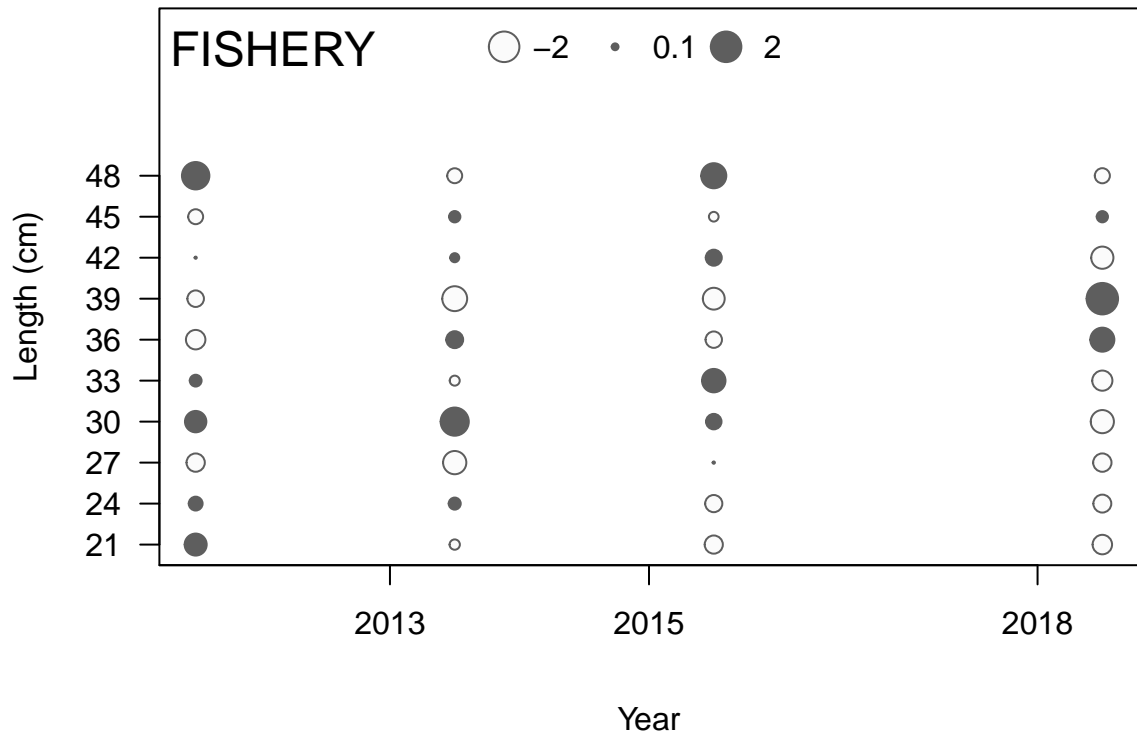
Length (cm)

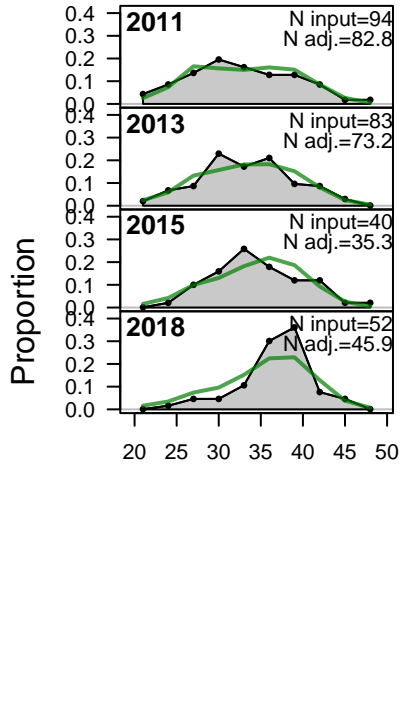


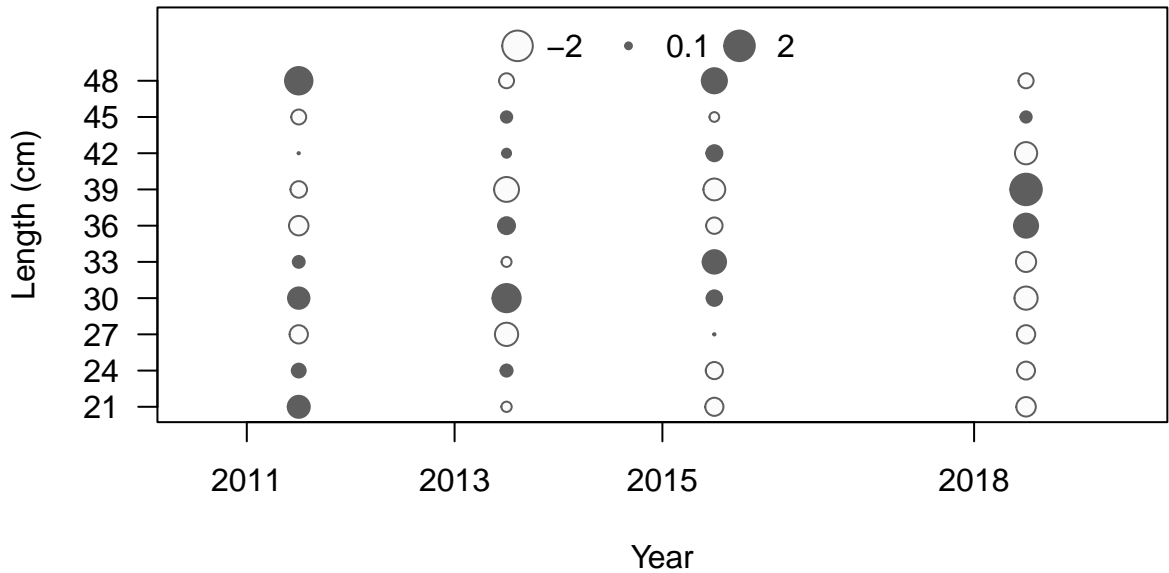
FISHERY (whole catch)



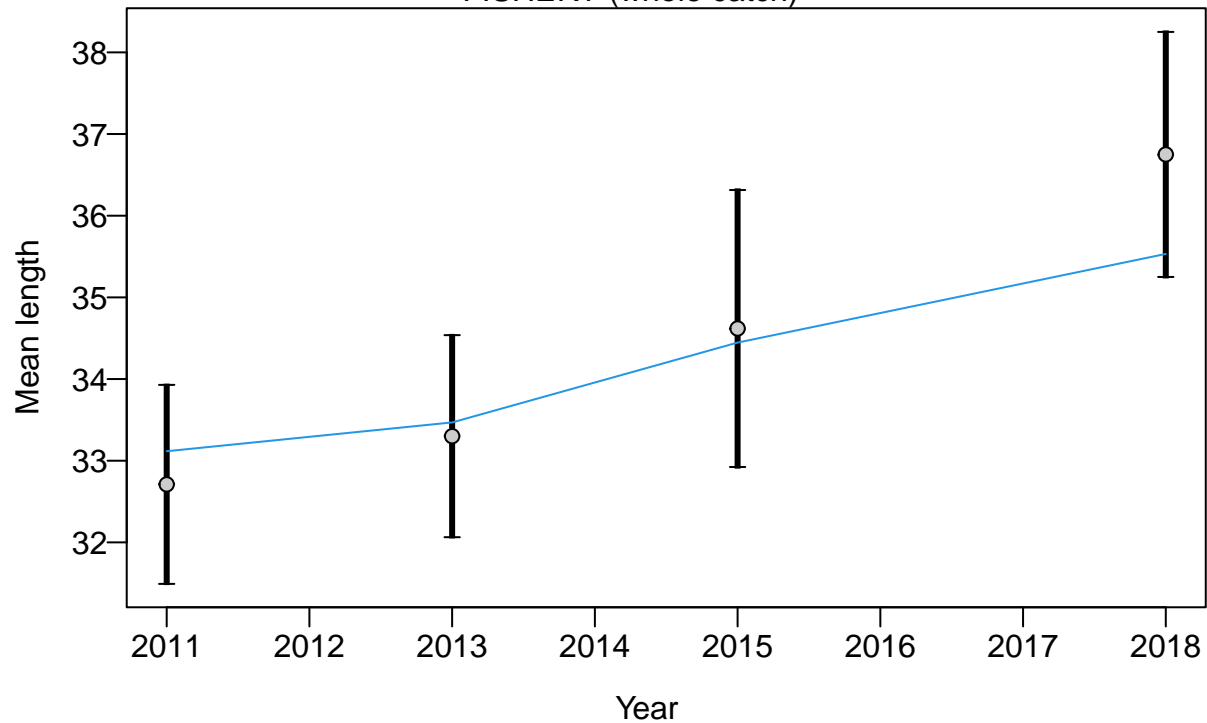


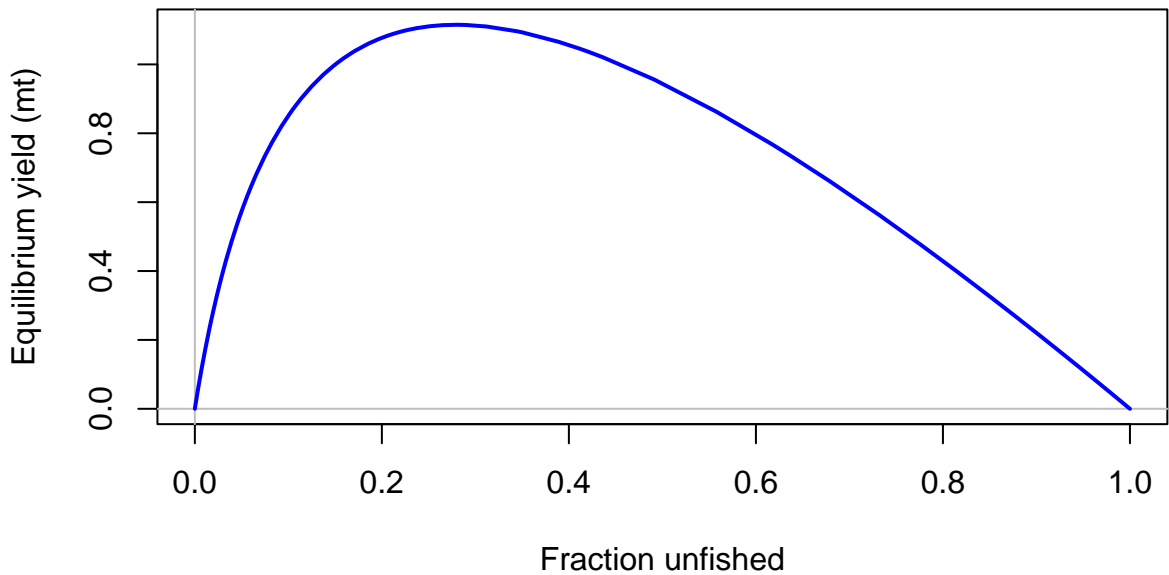


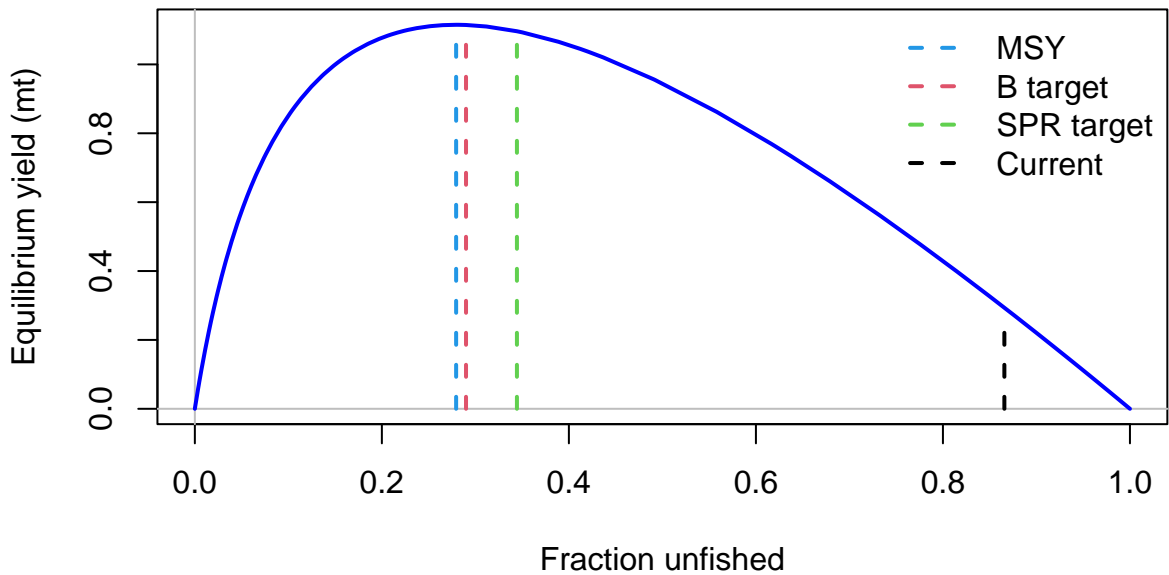


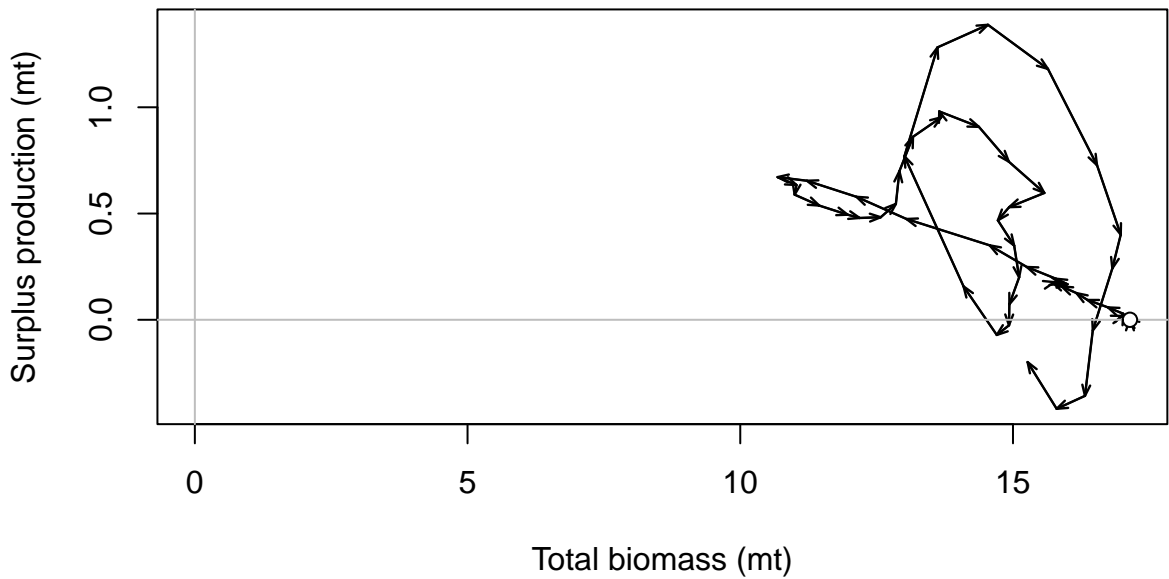


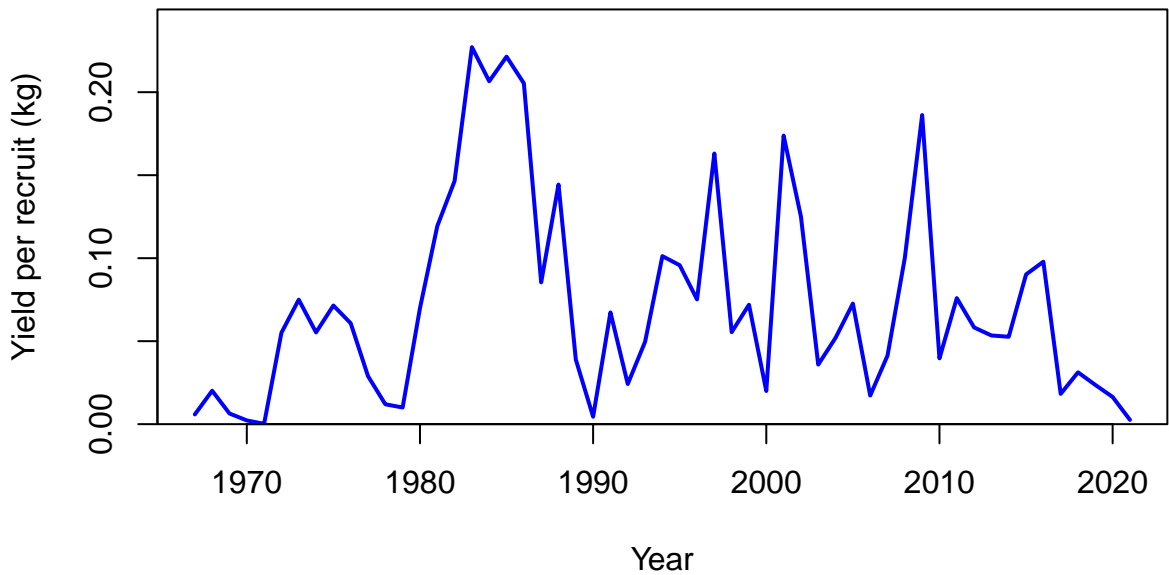
FISHERY (whole catch)

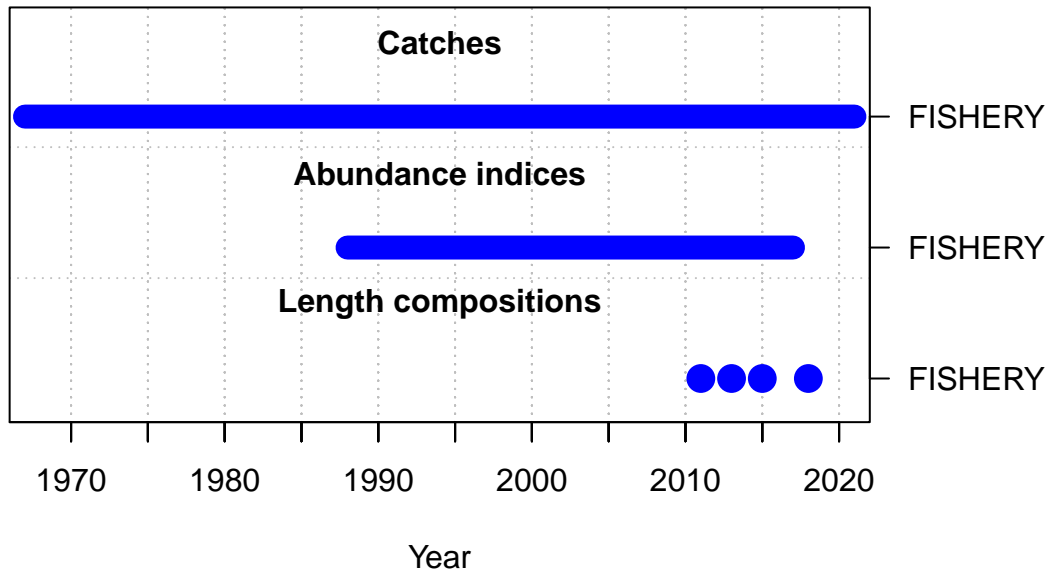


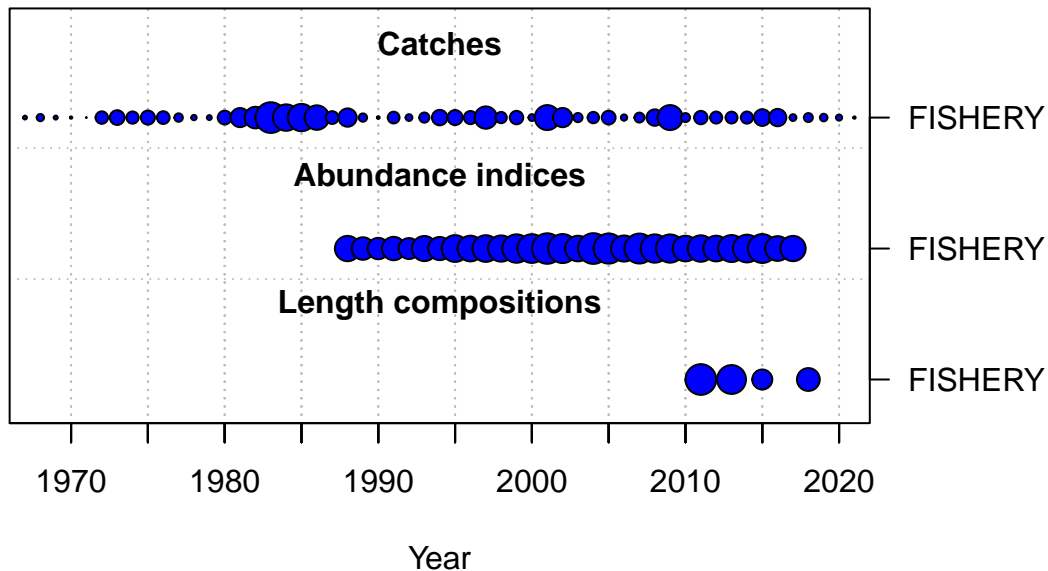




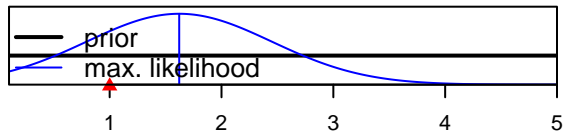




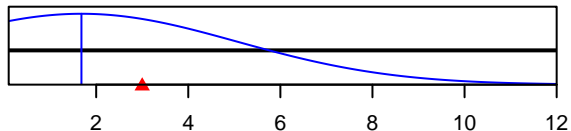




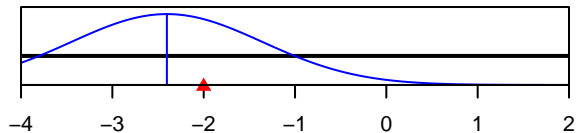
SR_LN(R0)



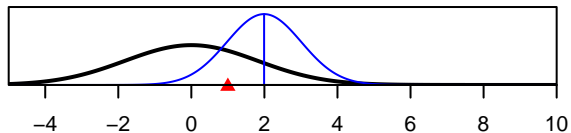
Size_95%width_FISHERY(1)



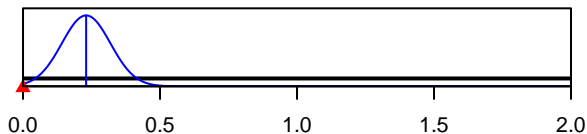
LnQ_base_FISHERY(1)



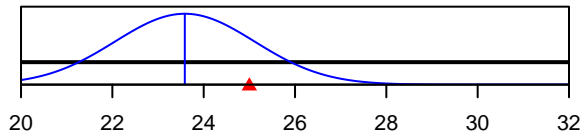
ln(DM_theta)_1



Q_extraSD_FISHERY(1)



Size_inflection_FISHERY(1)



Parameter value