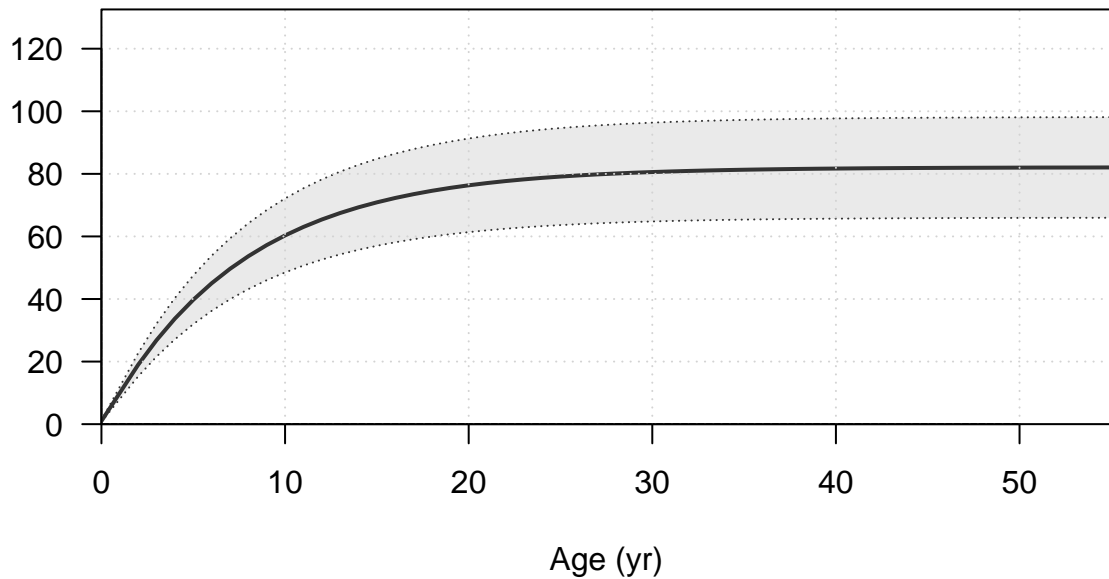
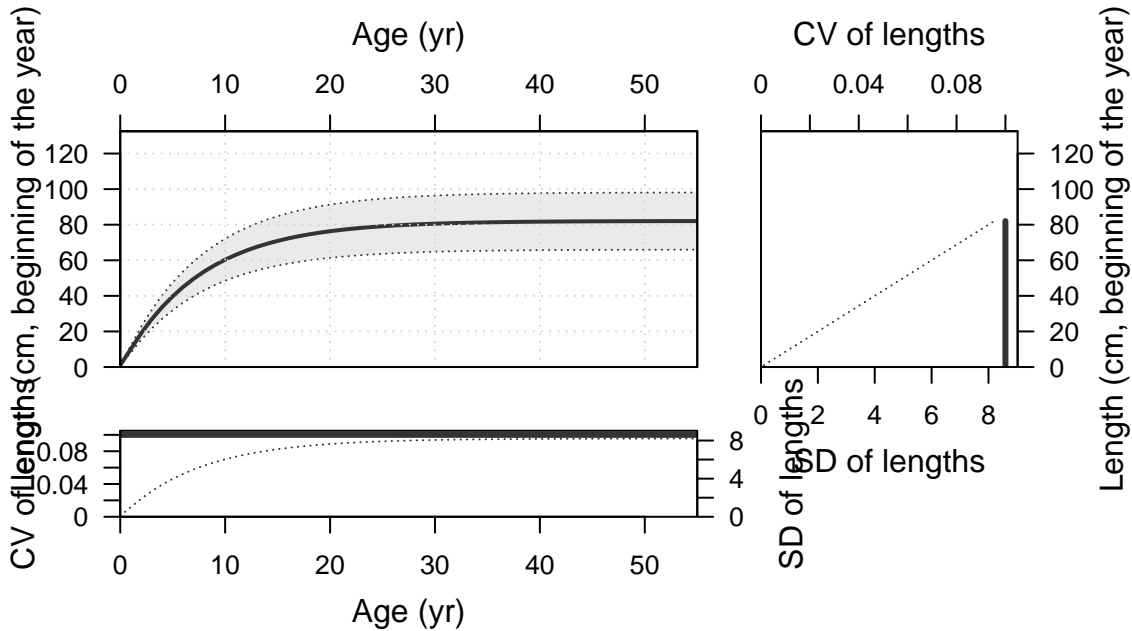
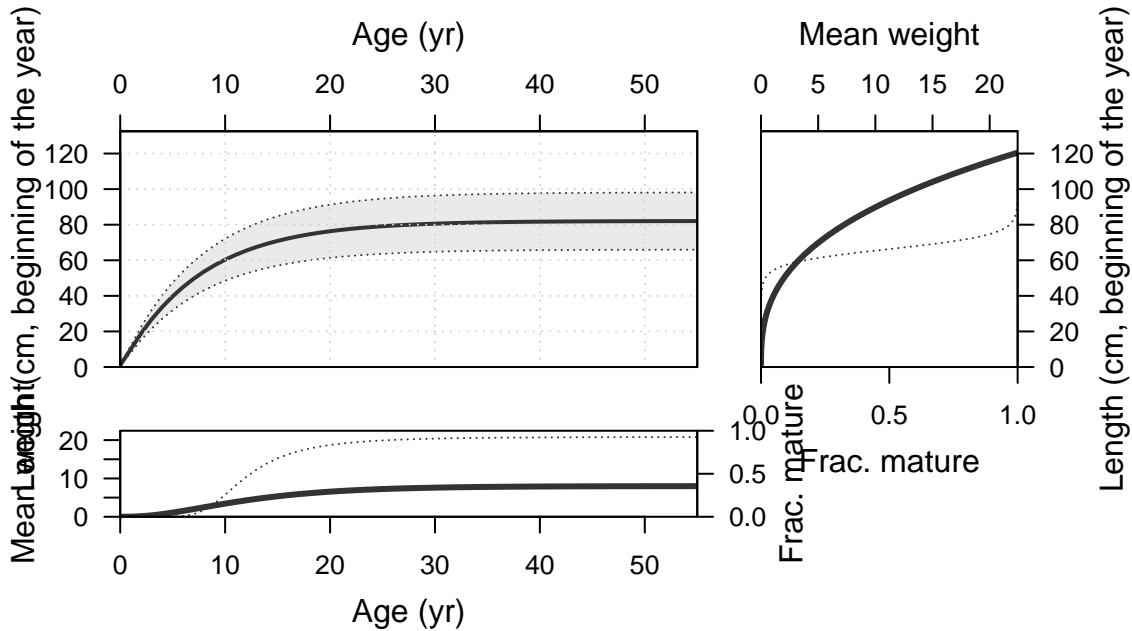


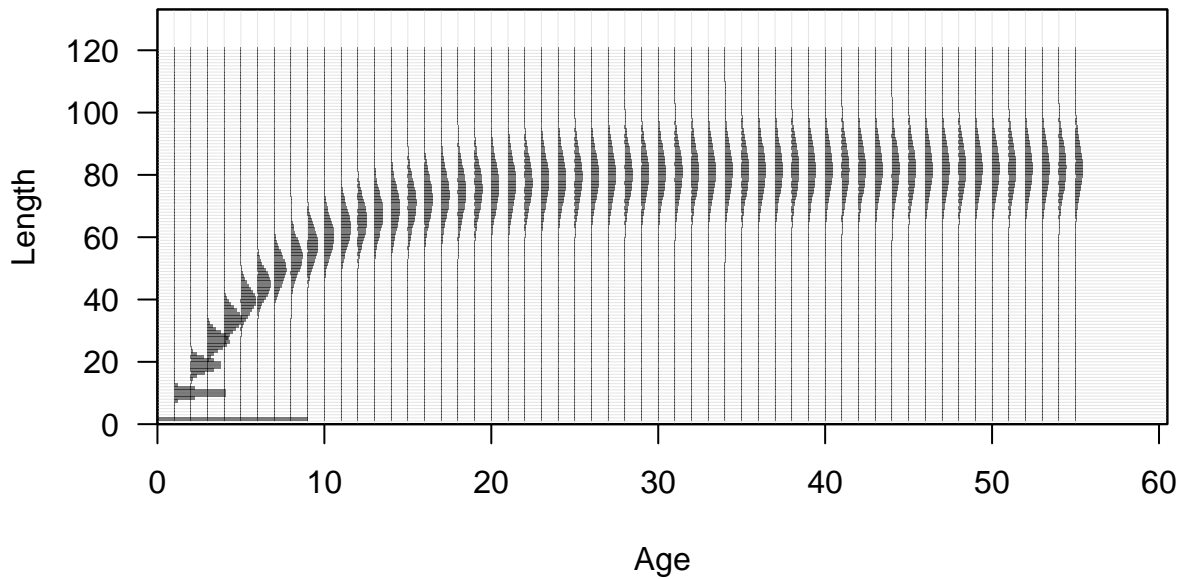
Plots created using the 'r4ss' package in R
Stock Synthesis version: 3.30.19.0
StartTime: Tue Jul 05 12:57:10 2022
Data_File: data.ss
Control_File: control.ss

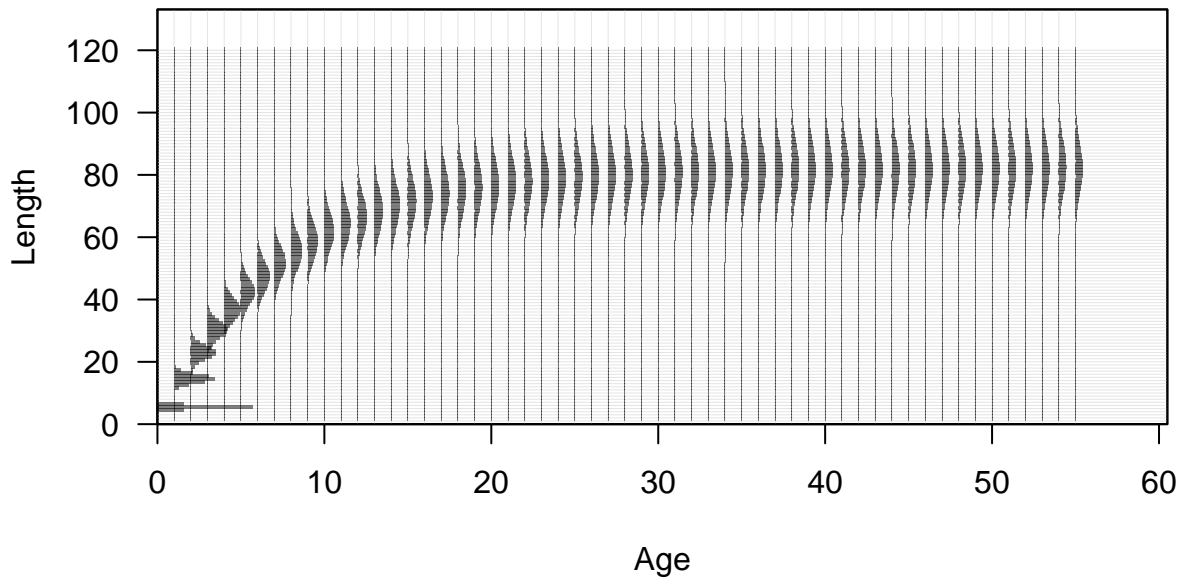
Length (cm, beginning of the year)



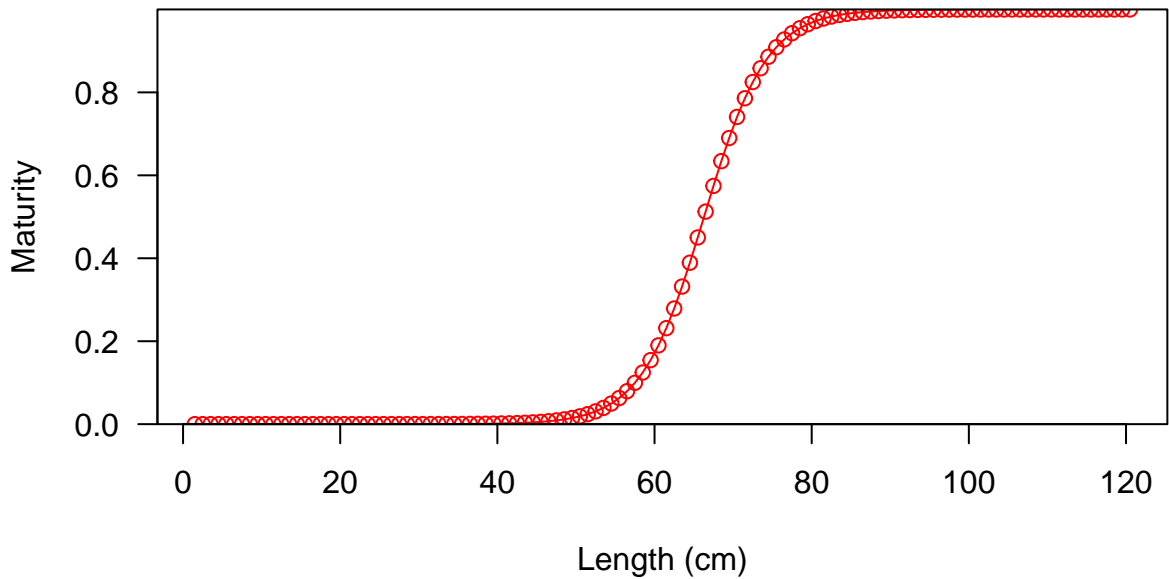






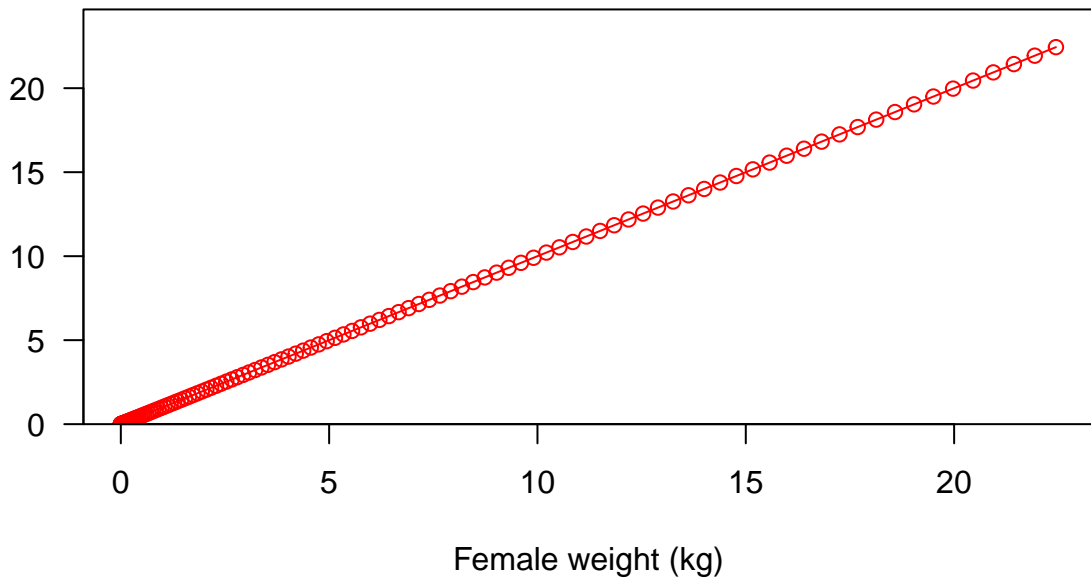




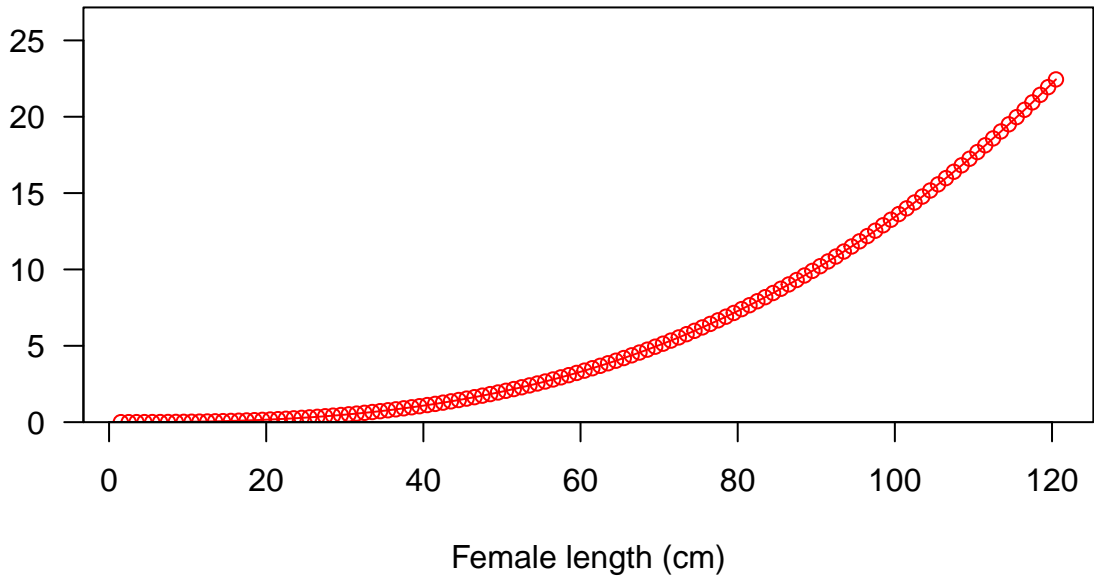


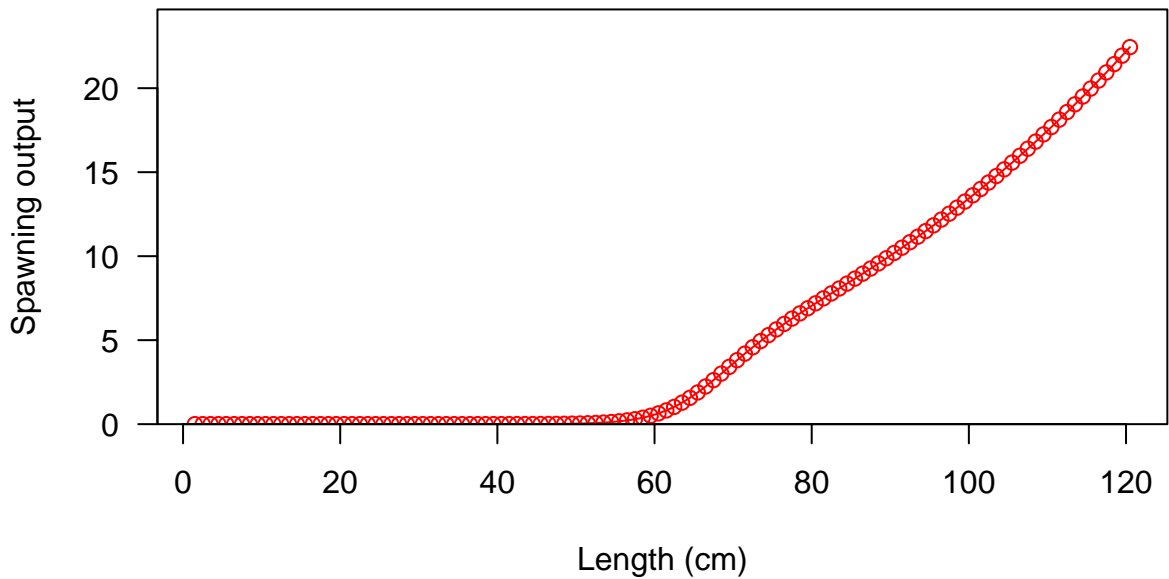


Fecundity

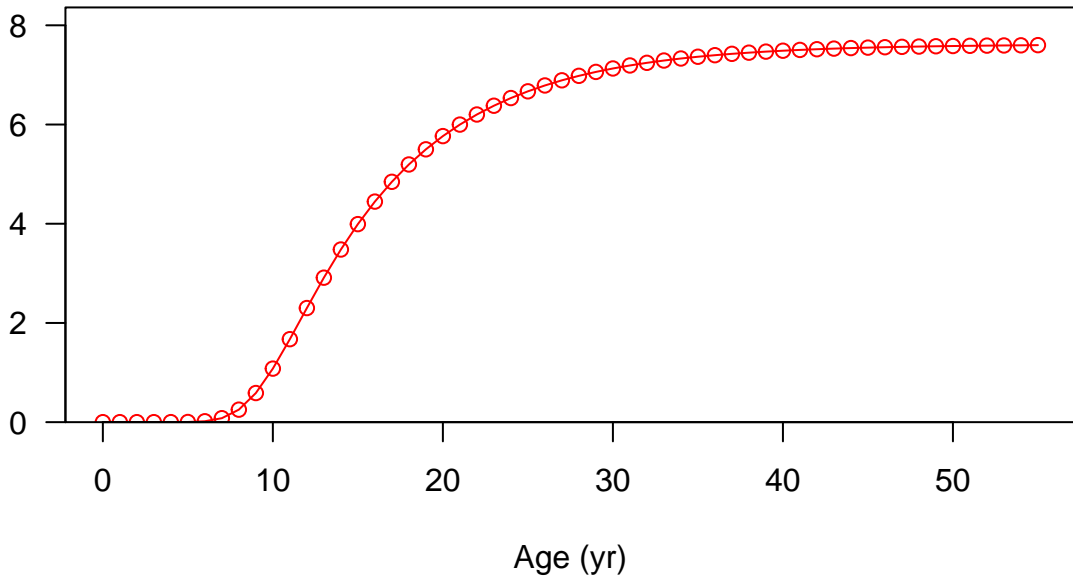


Fecundity

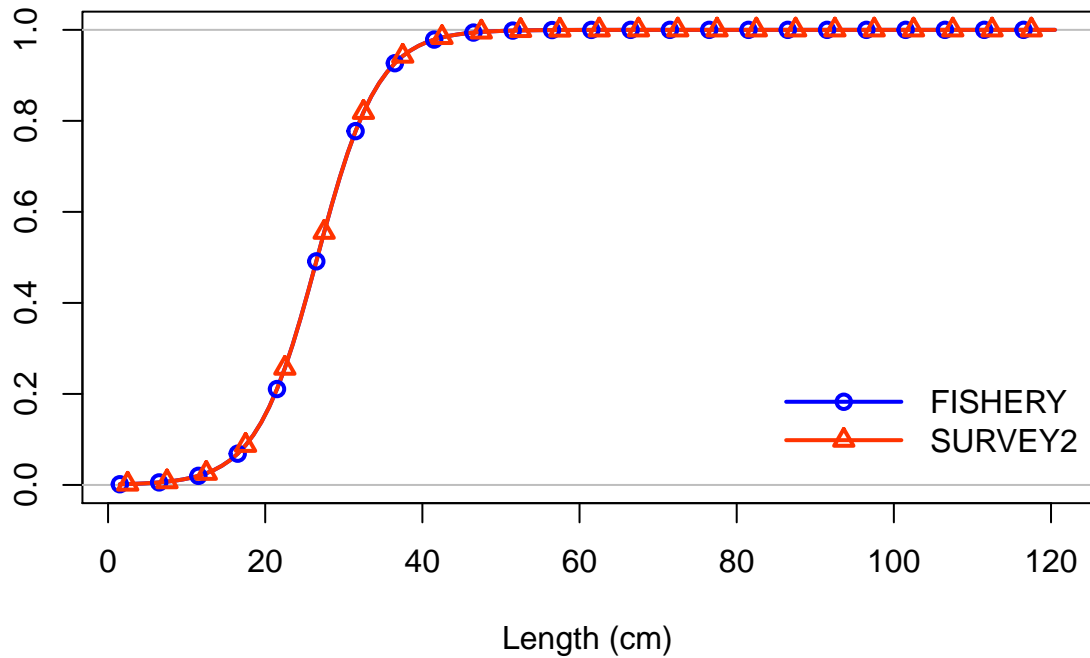




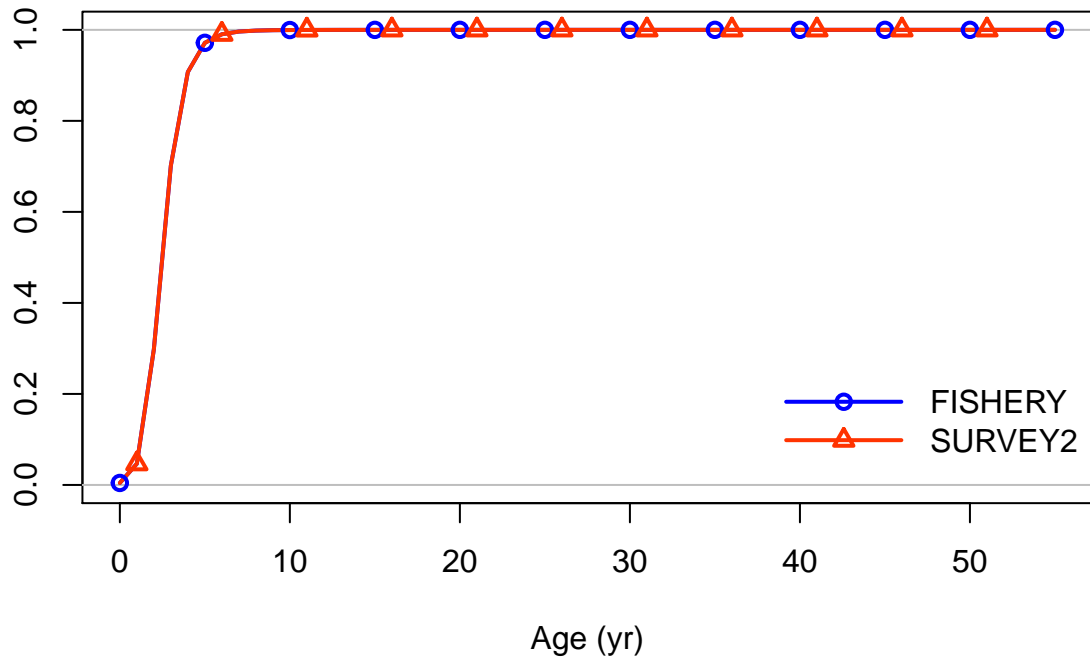
Spawning output



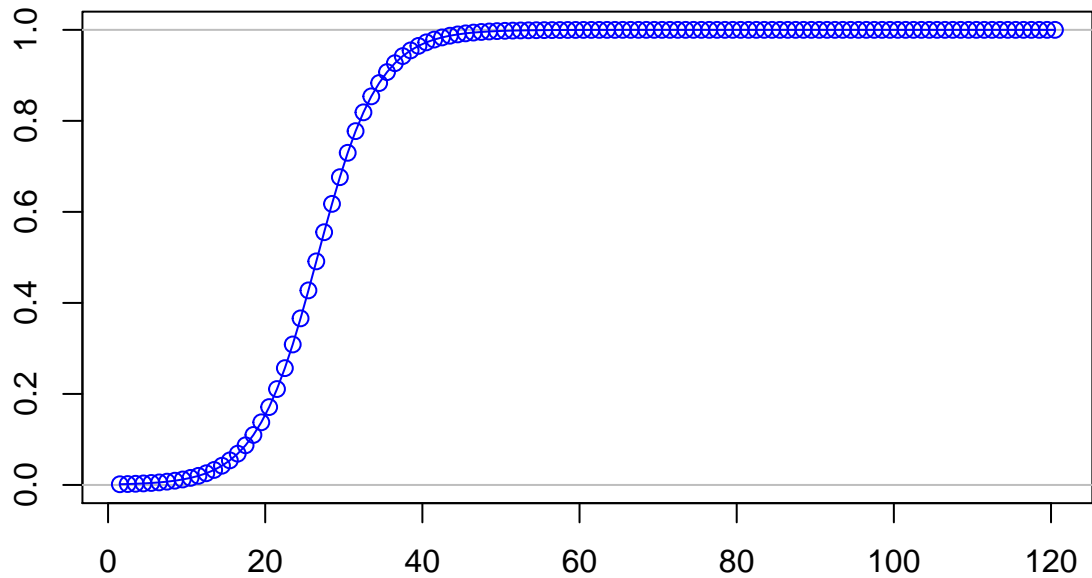
Selectivity



Selectivity

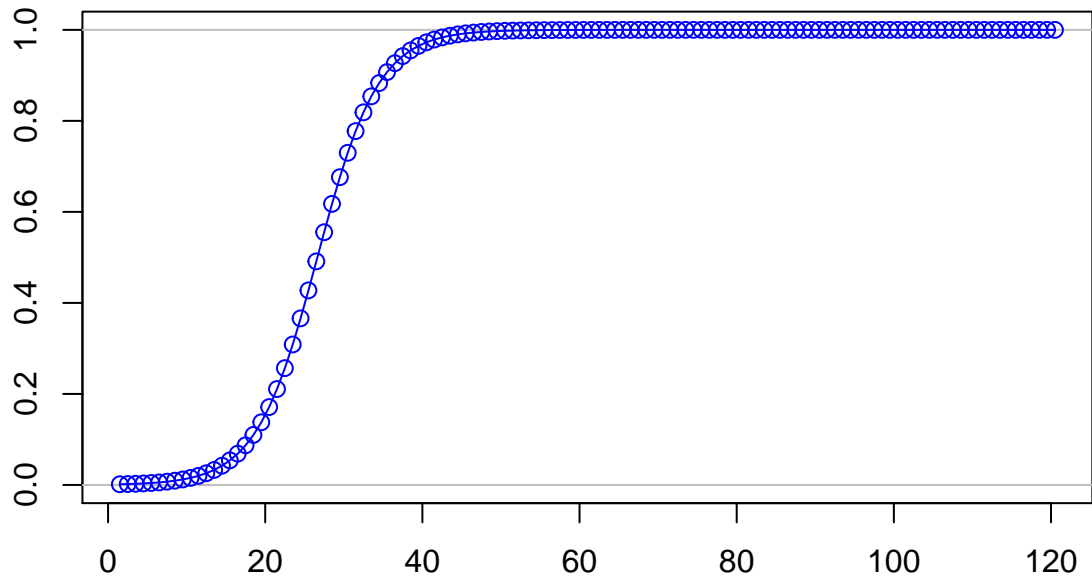


Selectivity

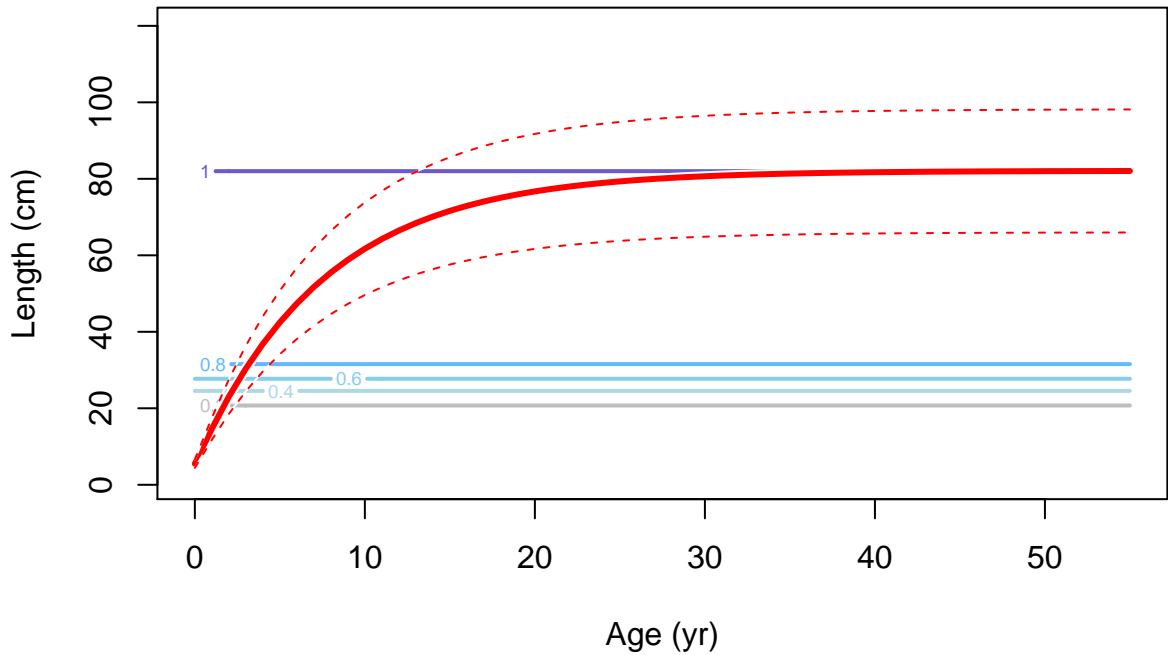


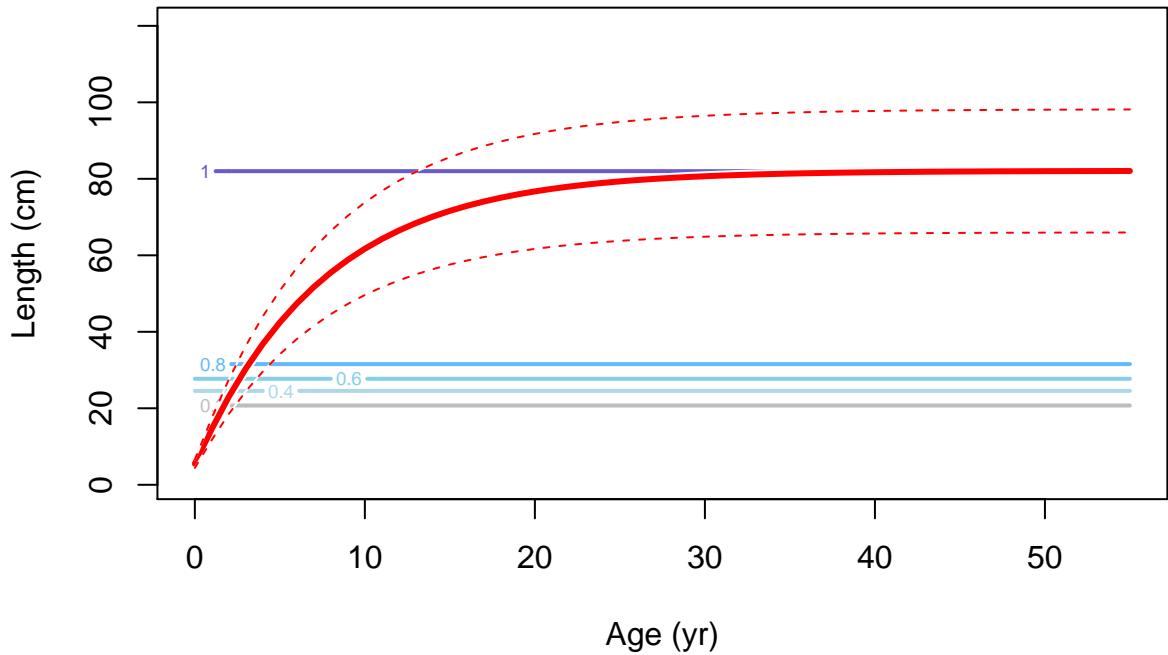
Length (cm)

Selectivity



Length (cm)





Spawning biomass (mt)

1.0e+12

0.0e+00

1970

1980

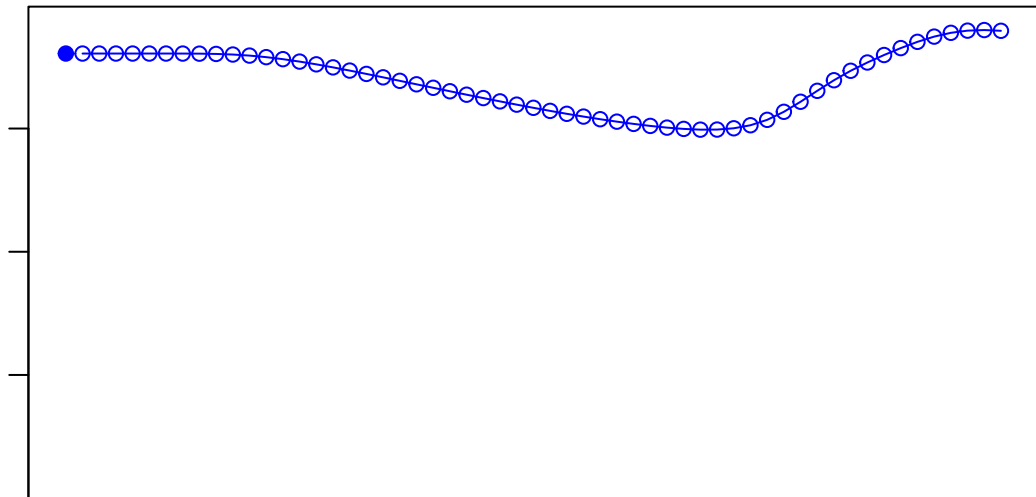
1990

2000

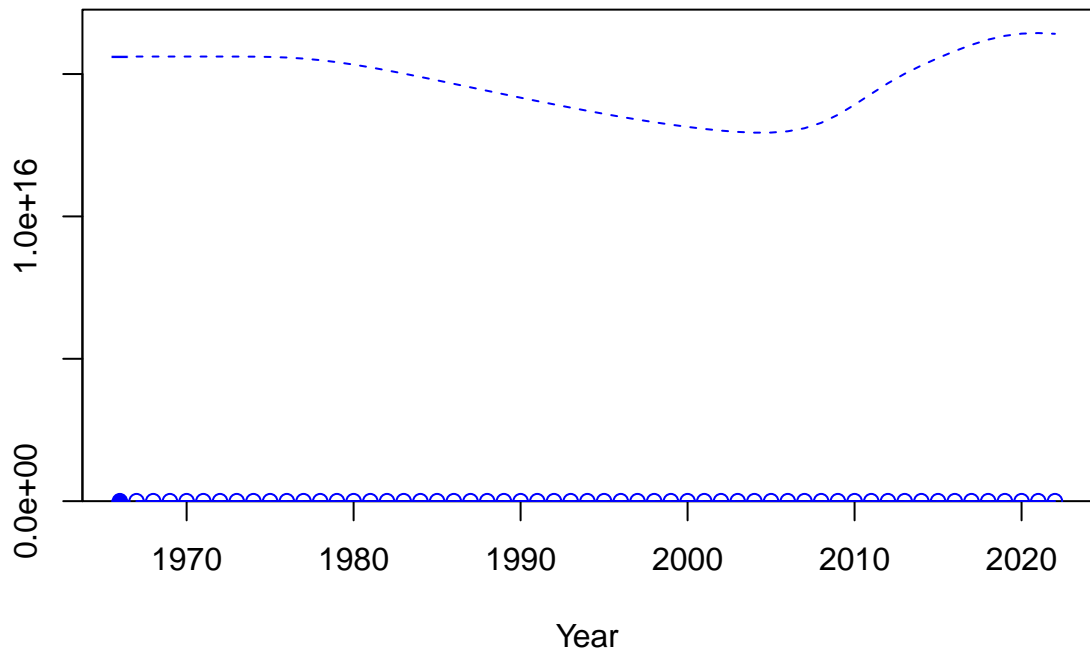
2010

2020

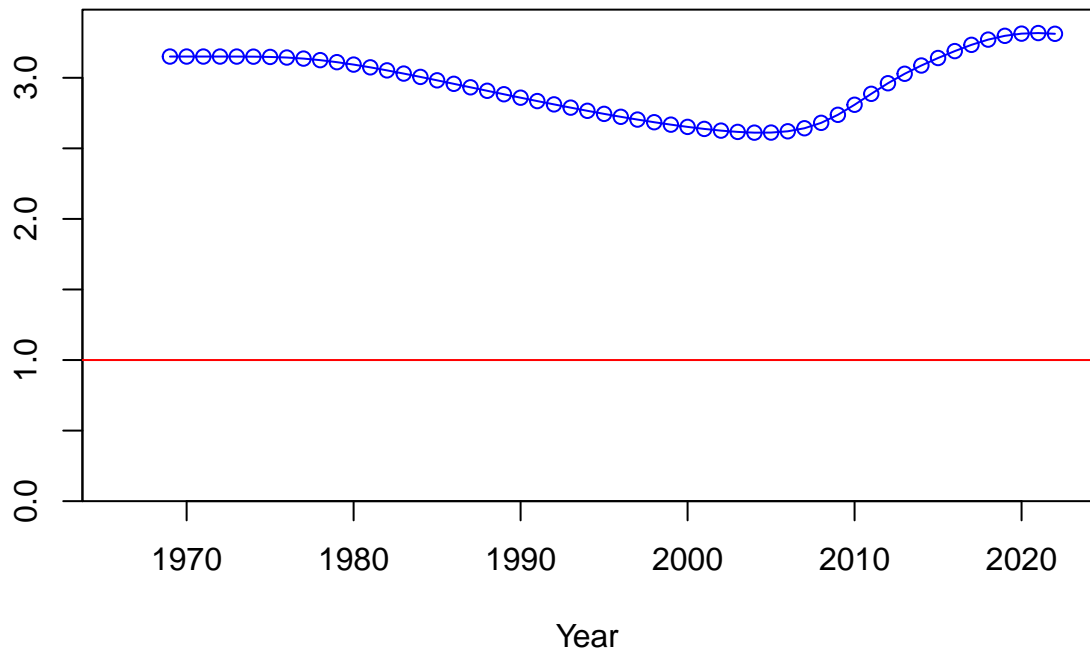
Year



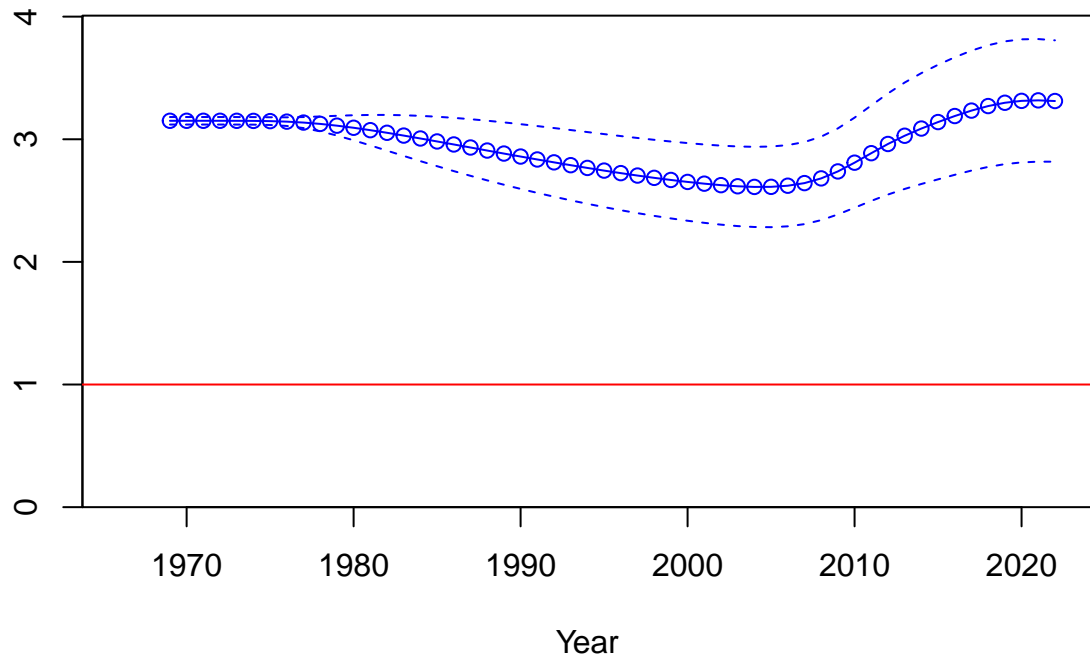
Spawning biomass (mt)

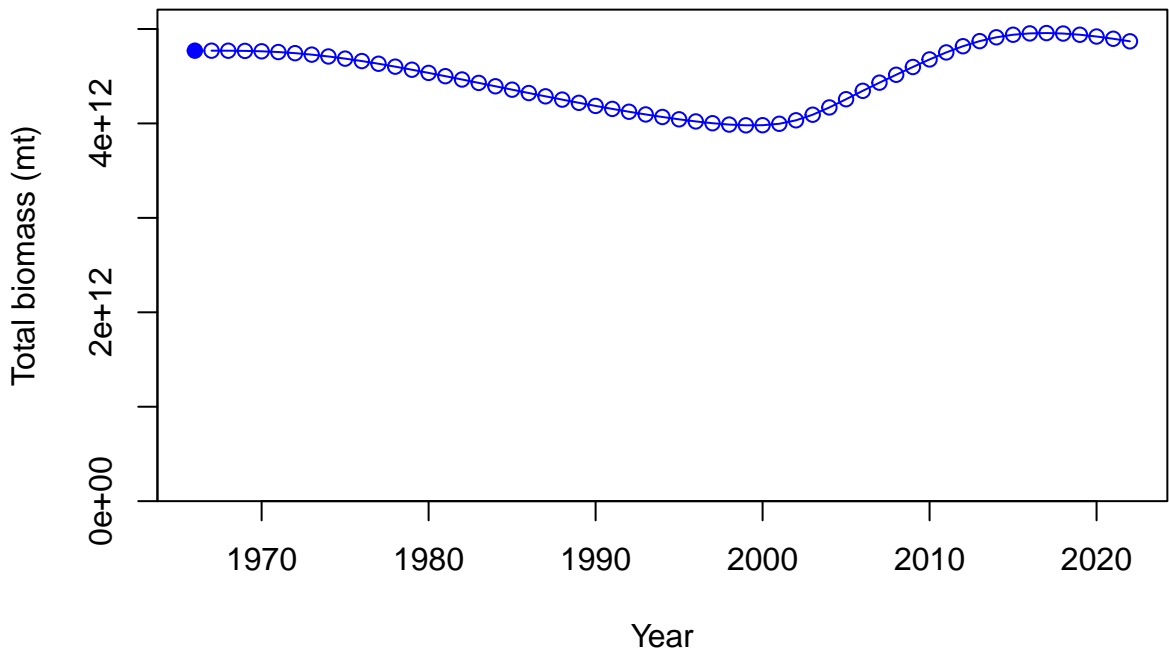


Relative spawning biomass: B/B_{MSY}

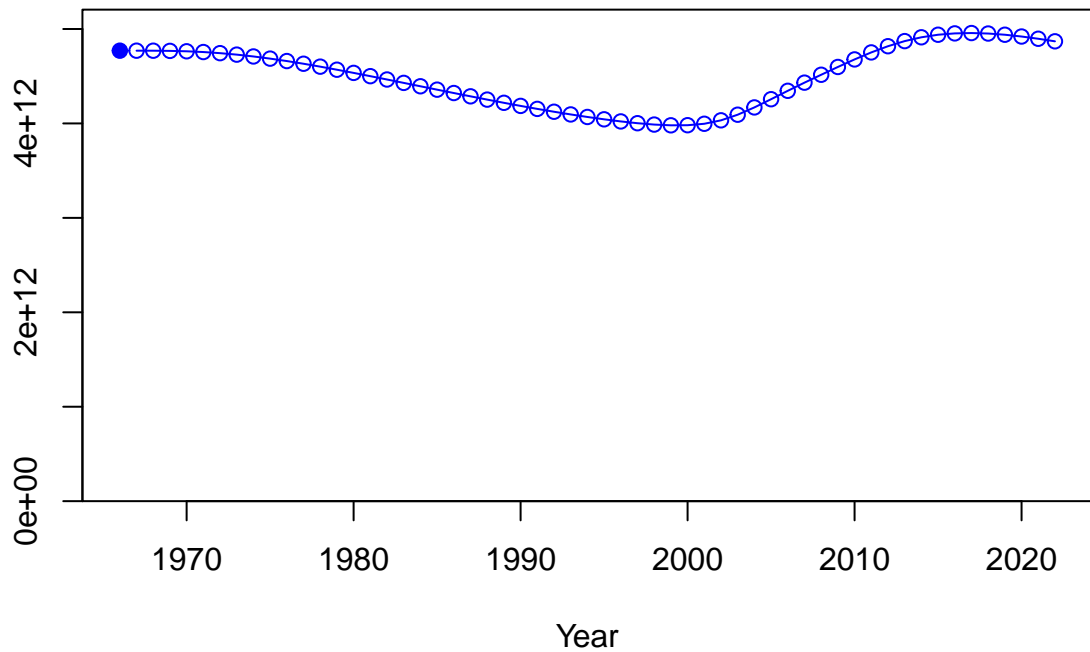


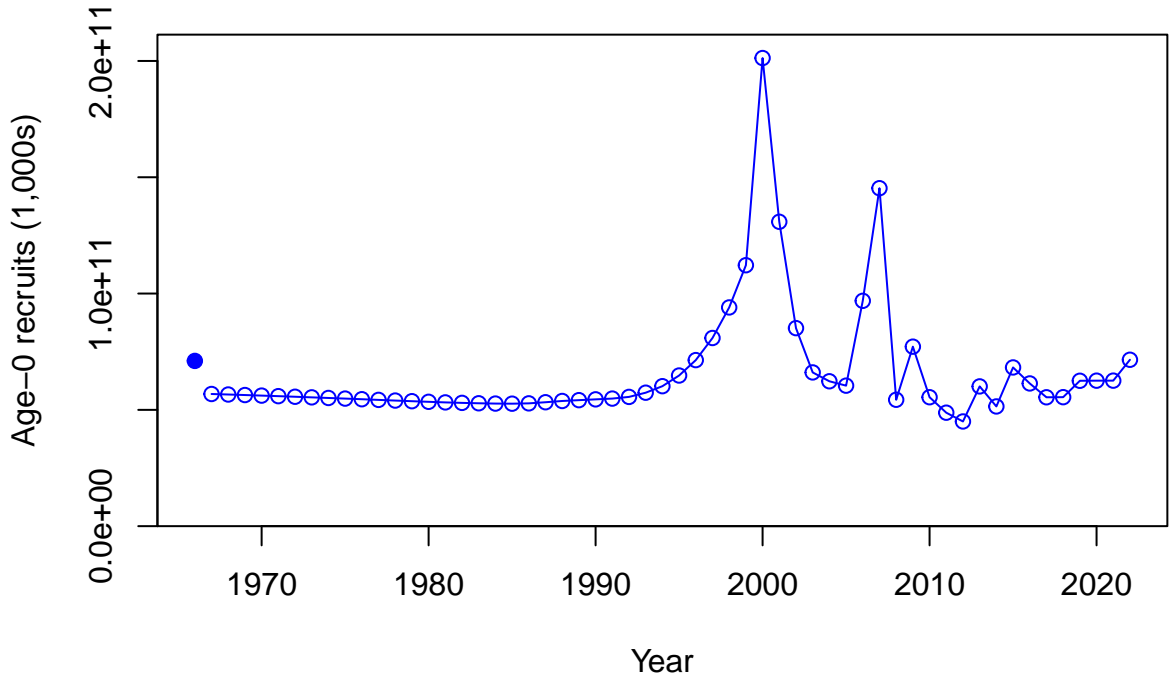
Relative spawning biomass: B/B_{MSY}

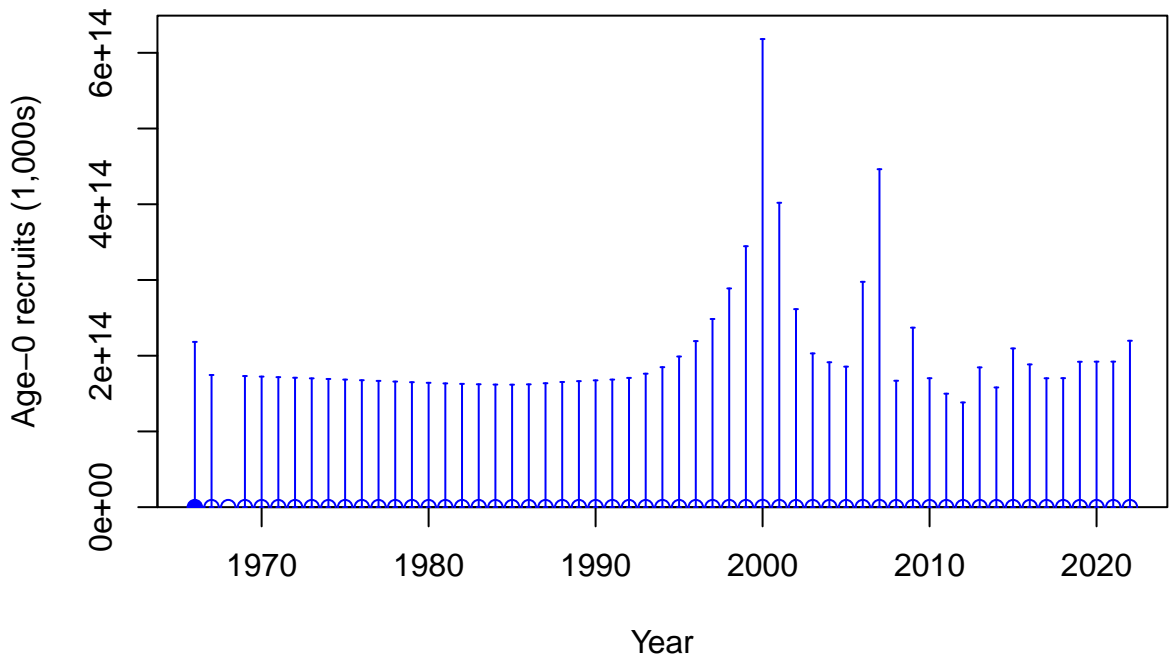




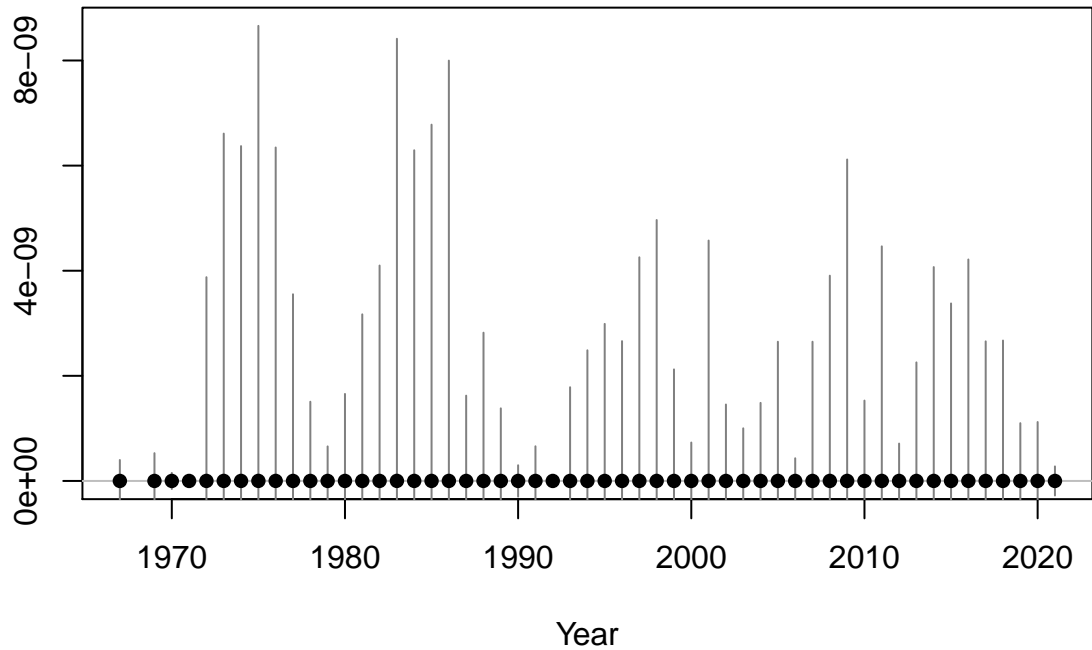
Summary biomass (mt)

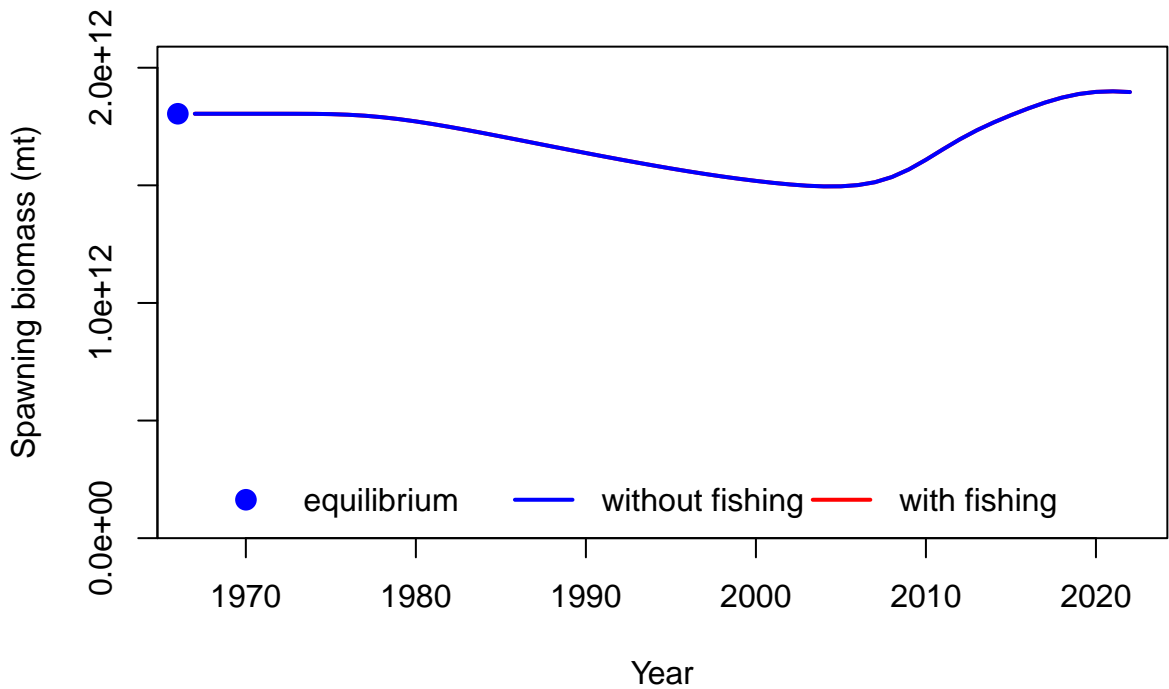






Summary Fishing Mortality





Log recruitment deviation

1.0
0.5
0.0

1970

1980

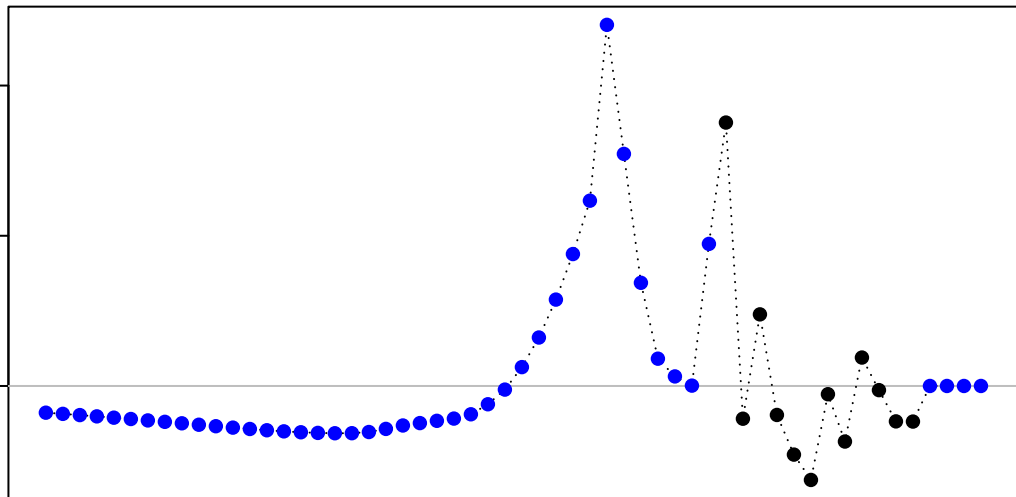
1990

2000

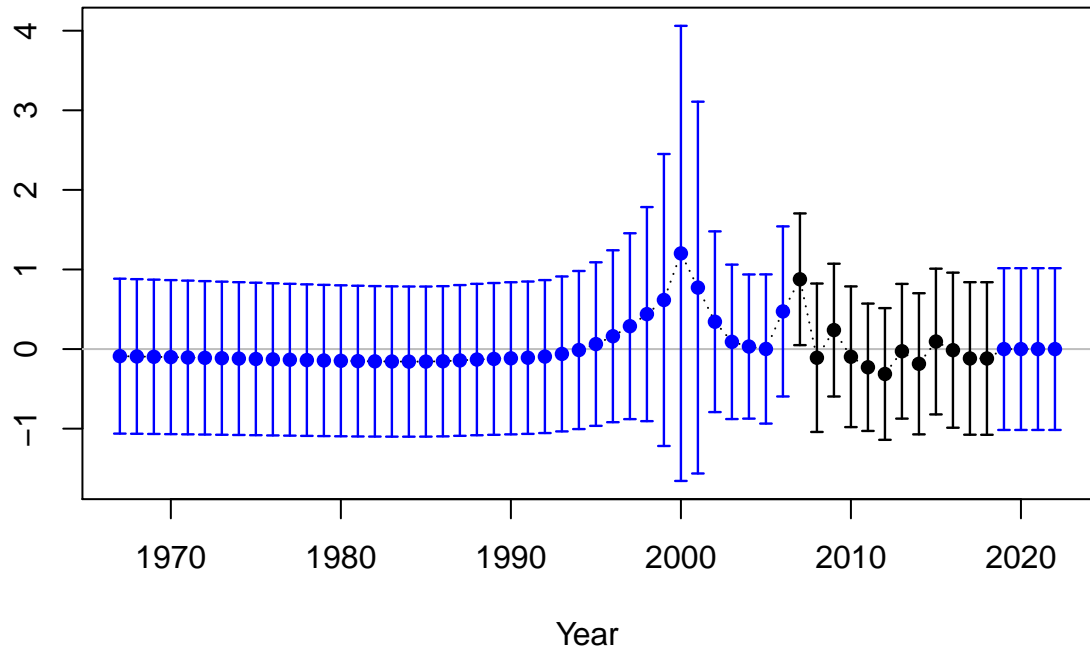
2010

2020

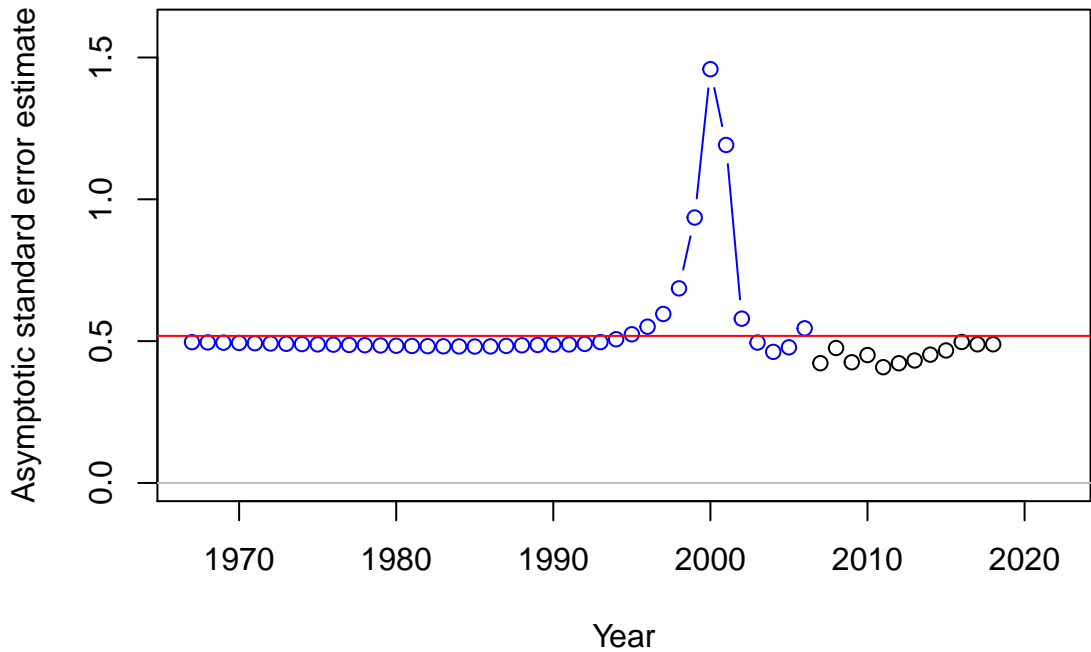
Year

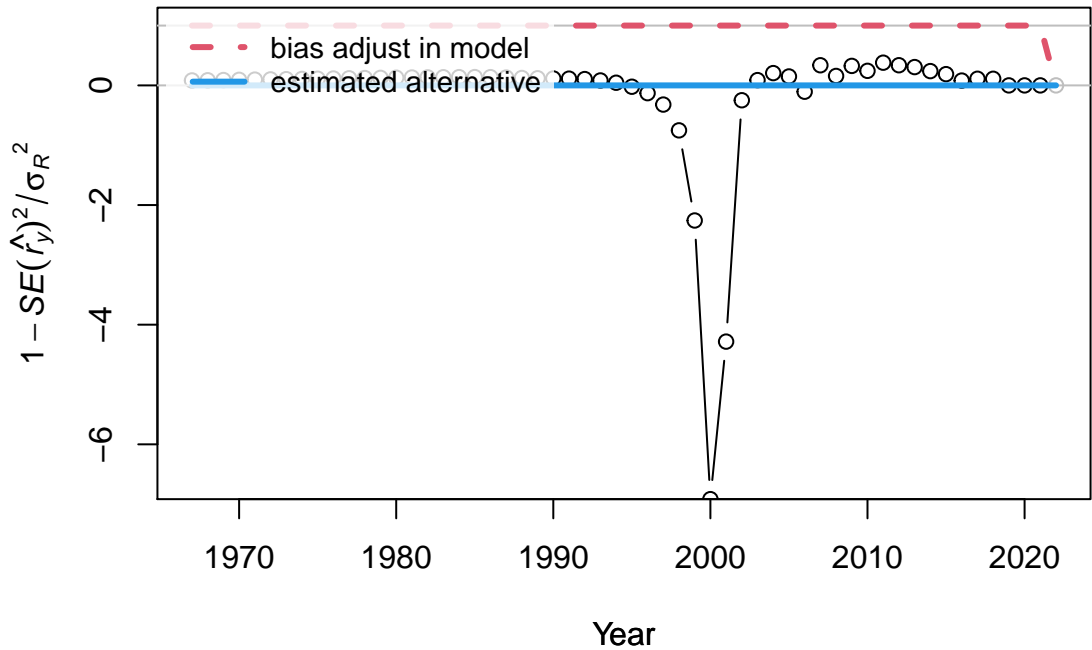


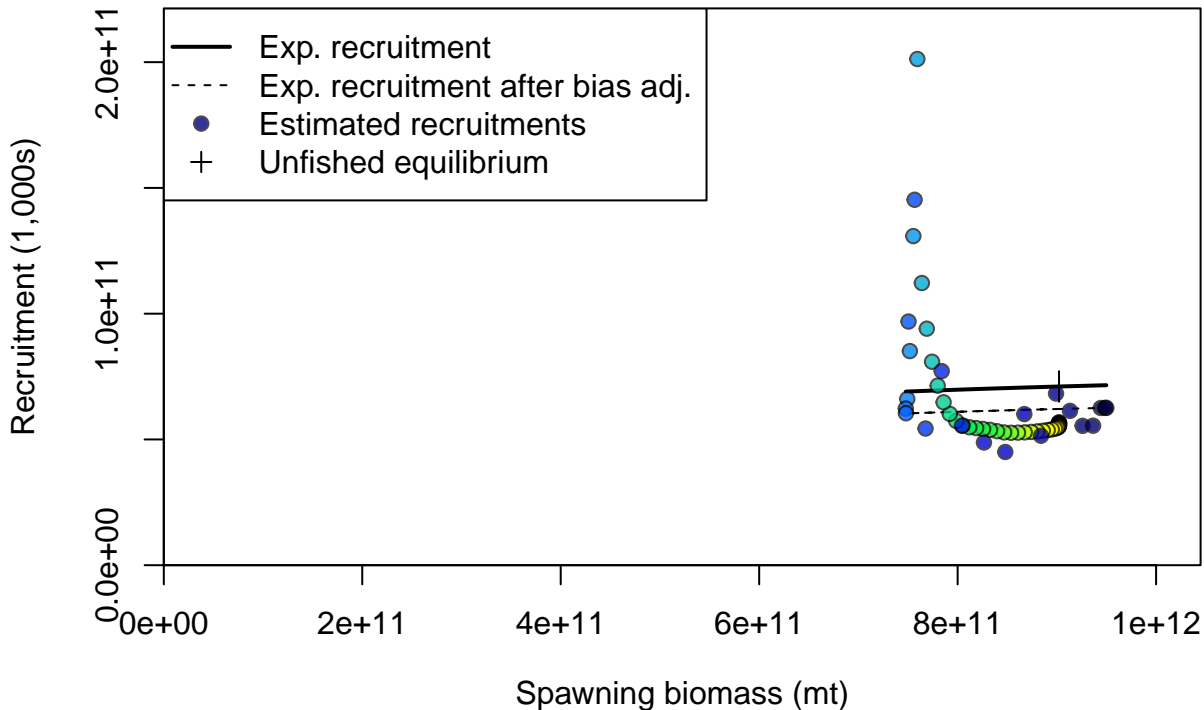
Log recruitment deviation

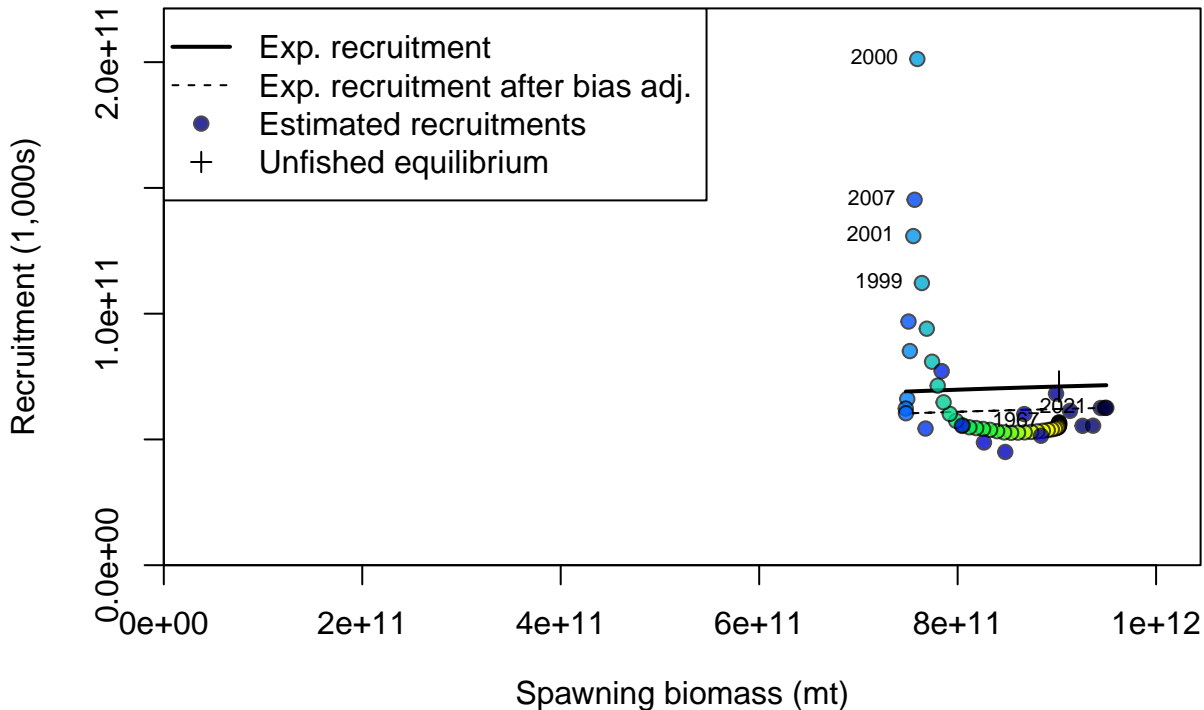


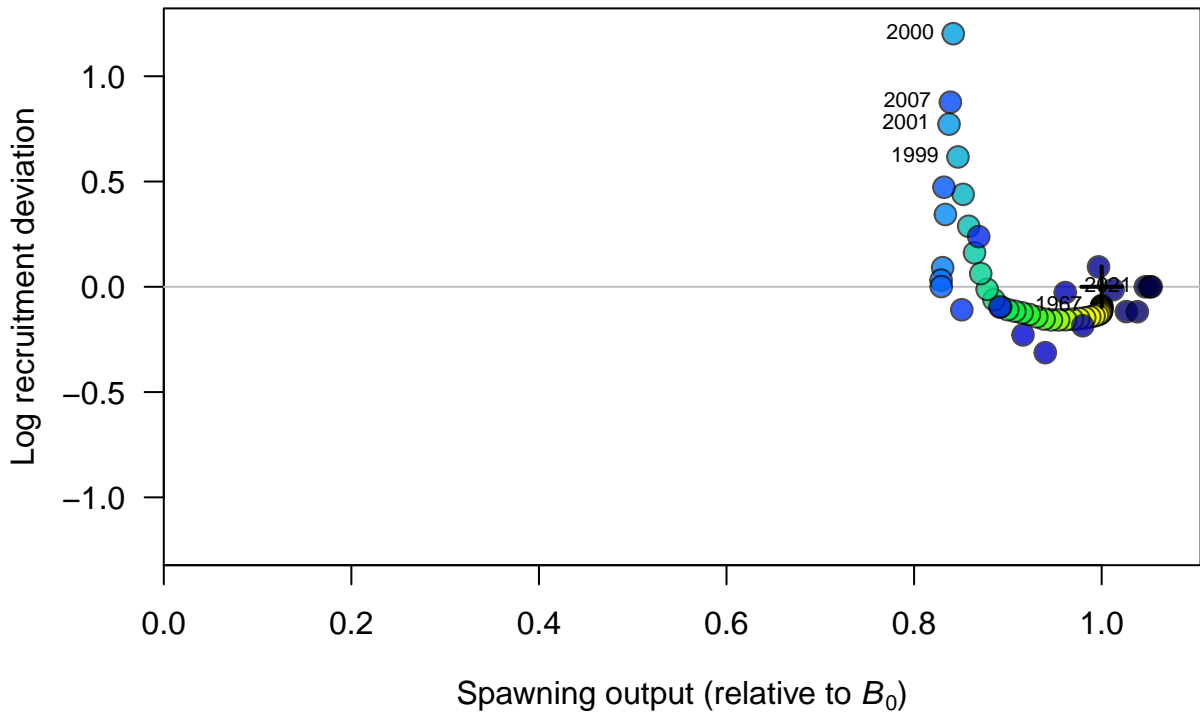
Recruitment deviation variance

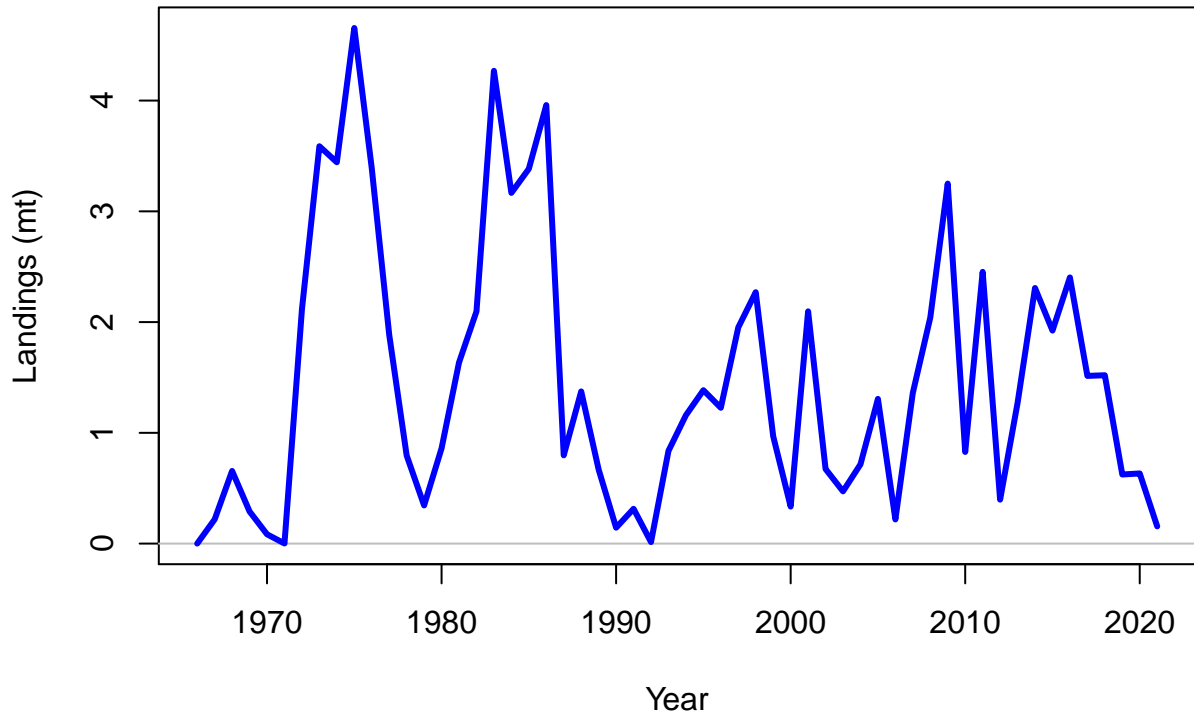


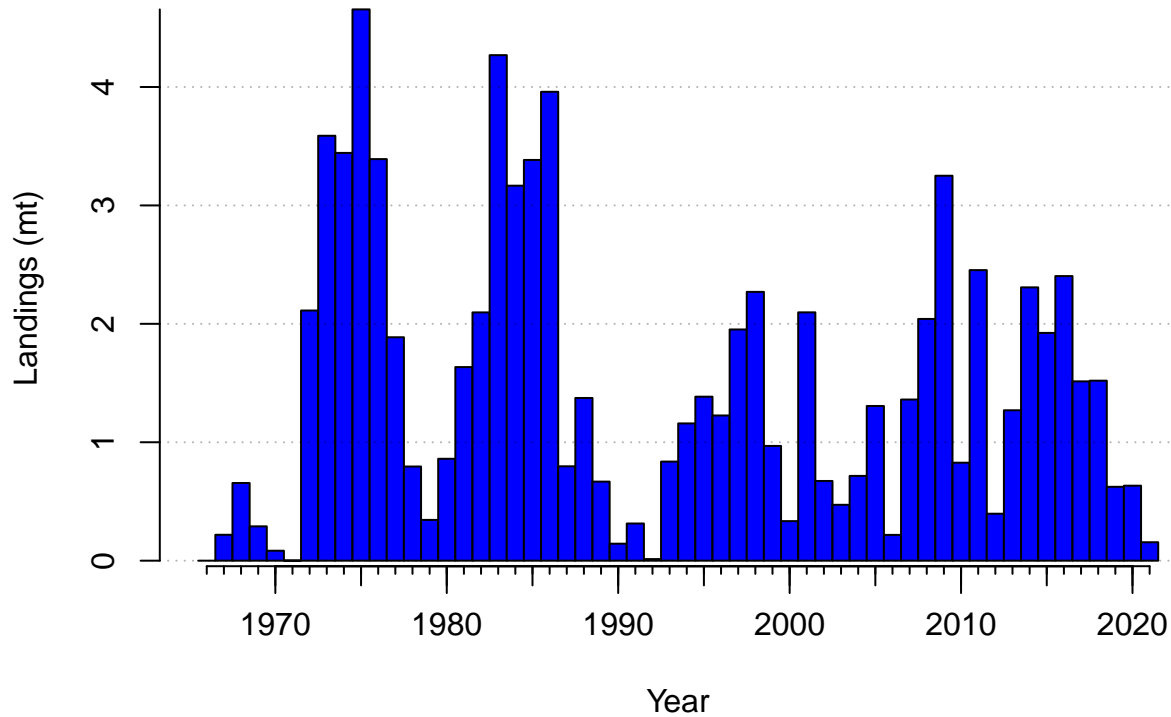


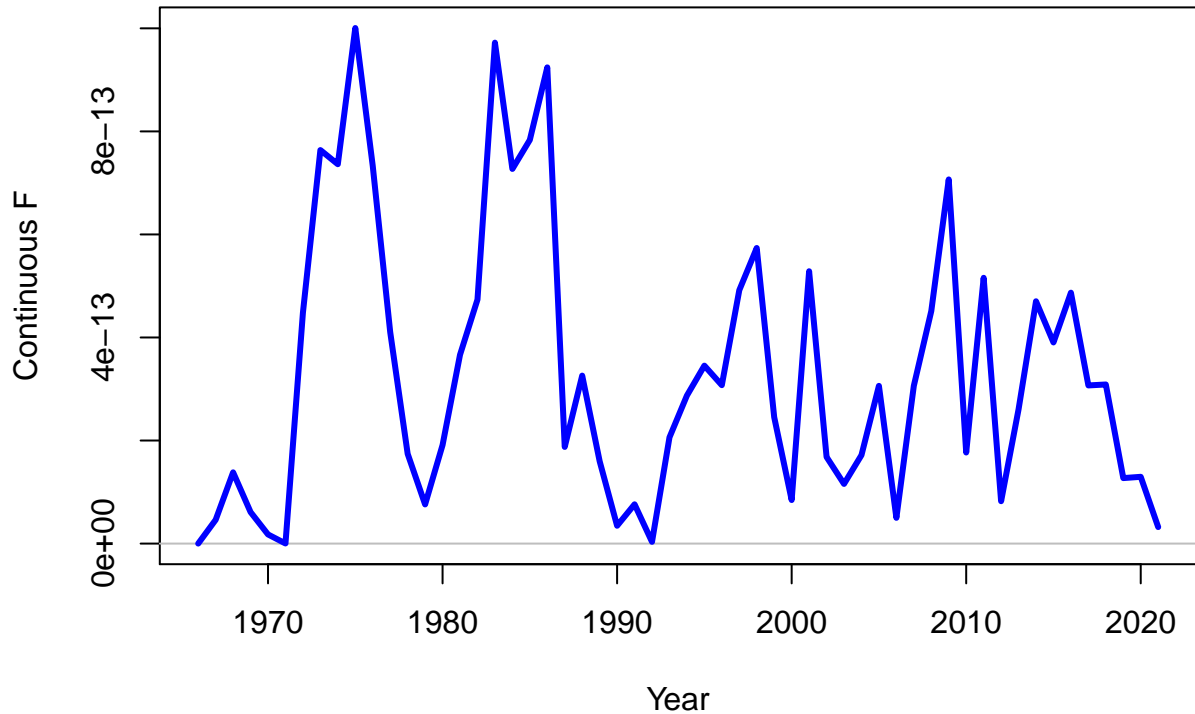




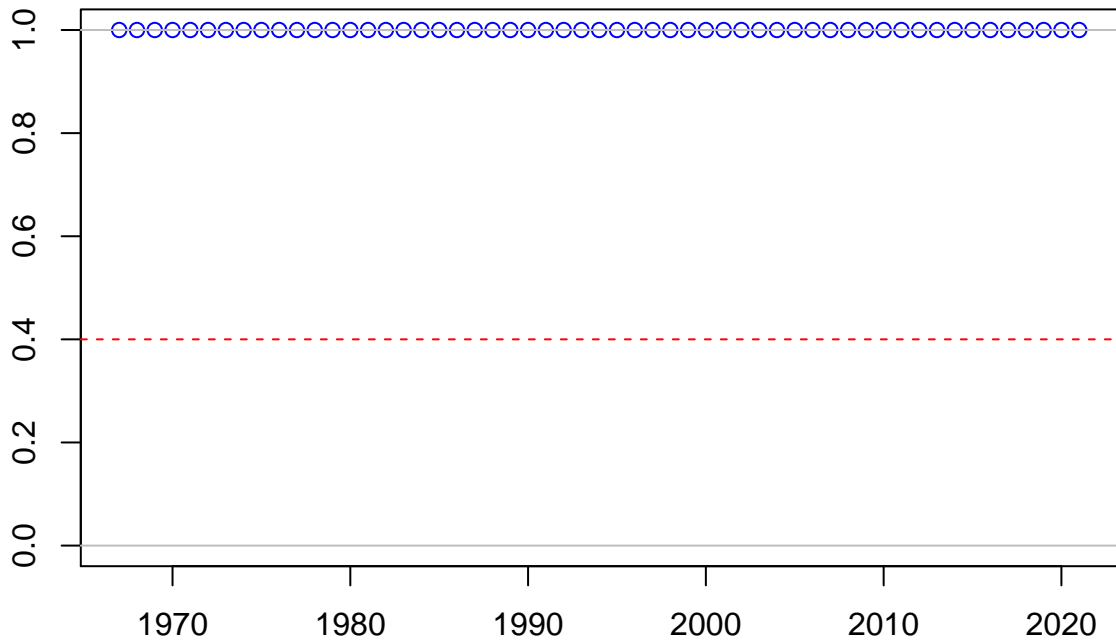




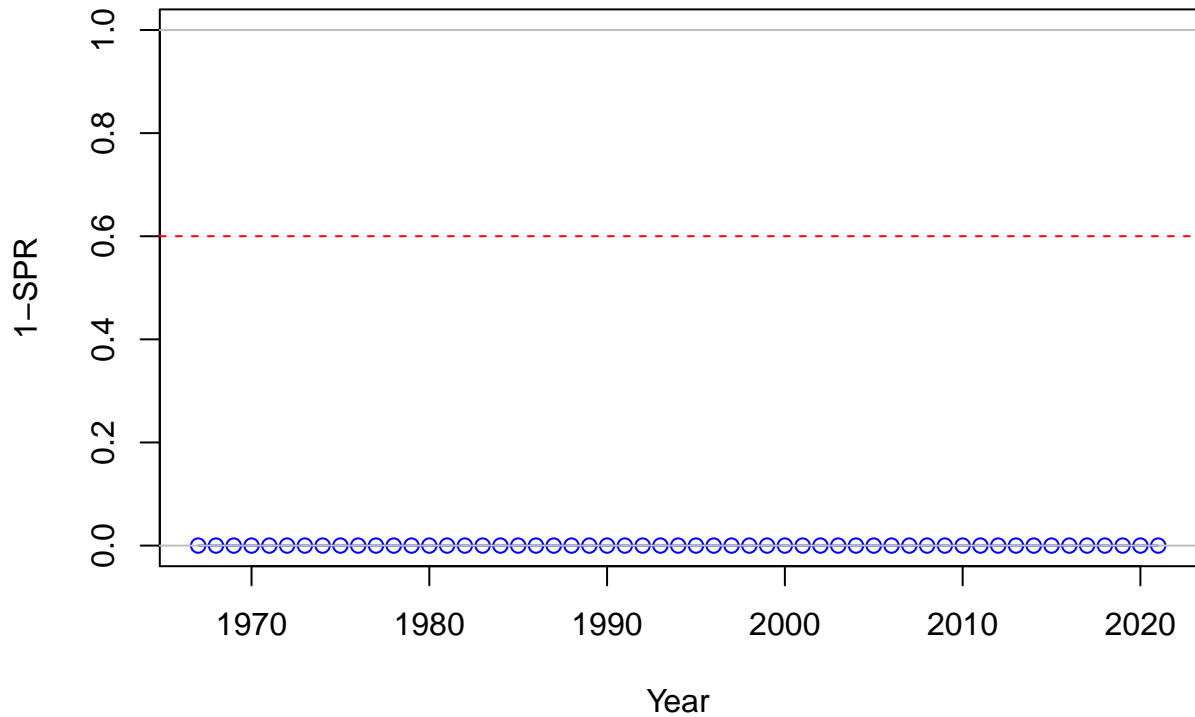




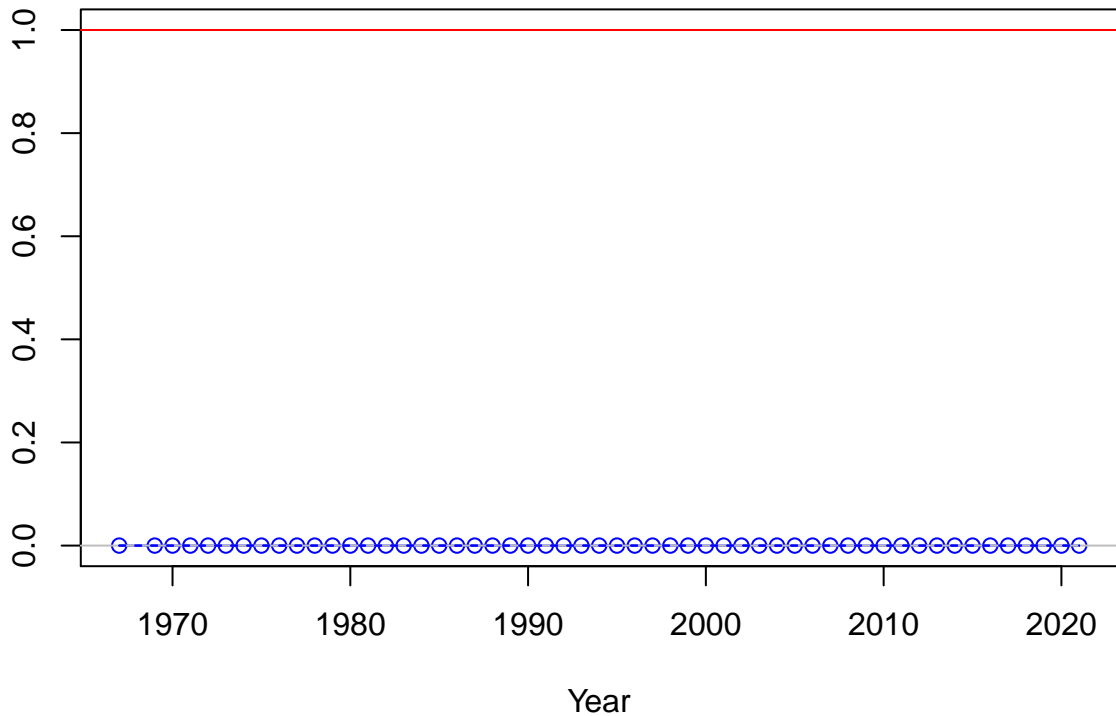
SPR



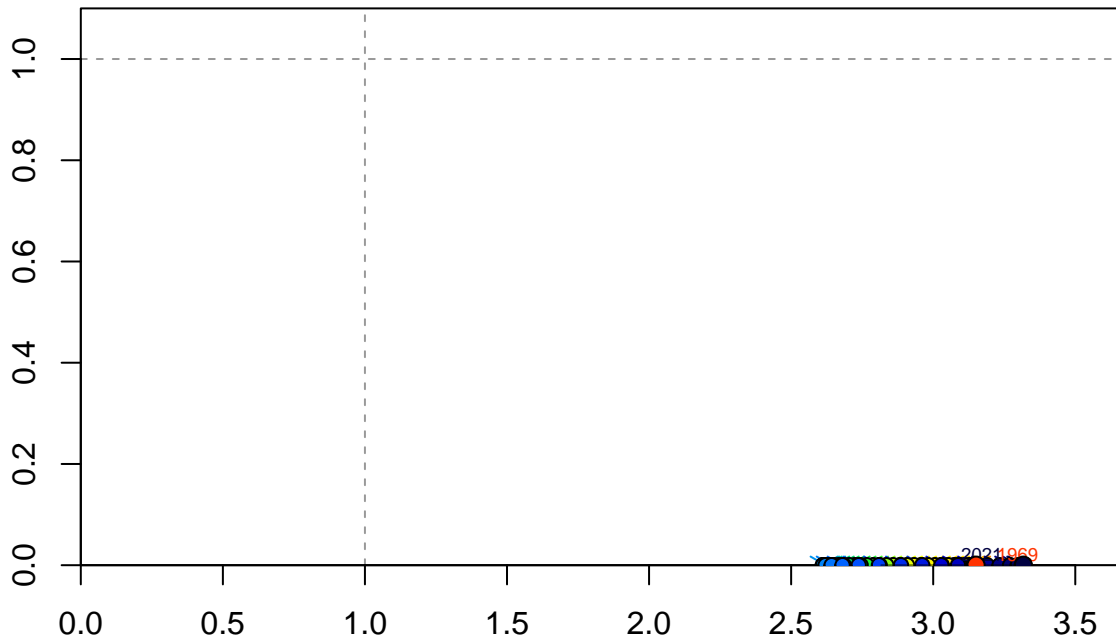
Year



Fishing intensity: 1-SPR

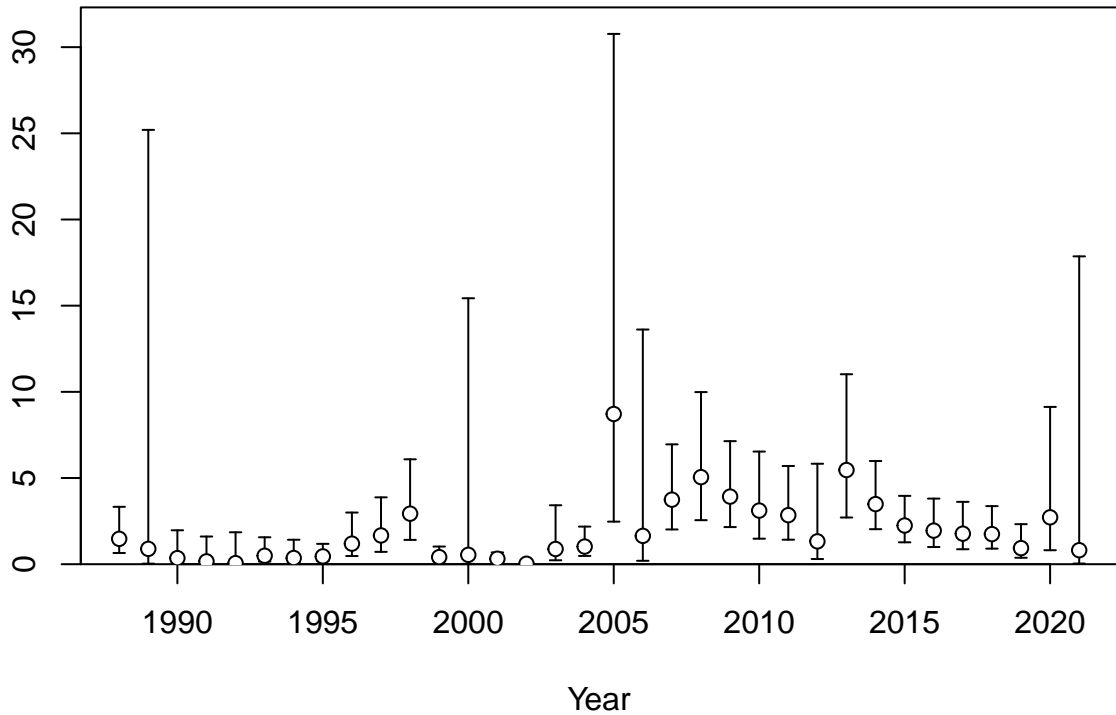


Fishing intensity: 1-SPR

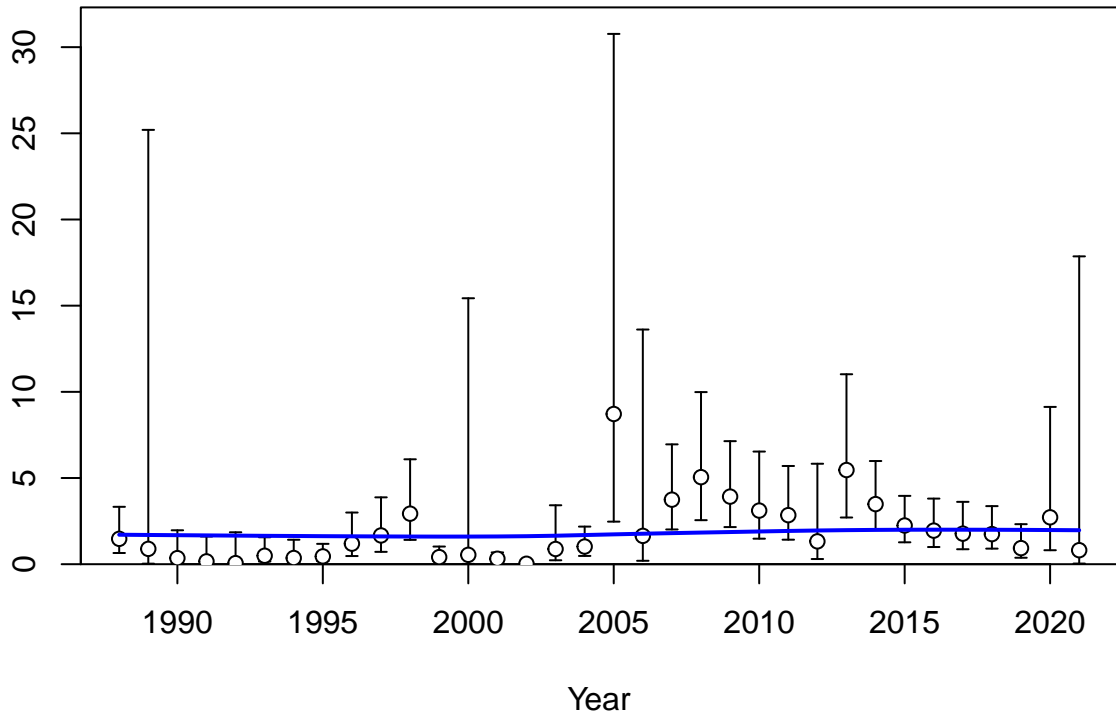


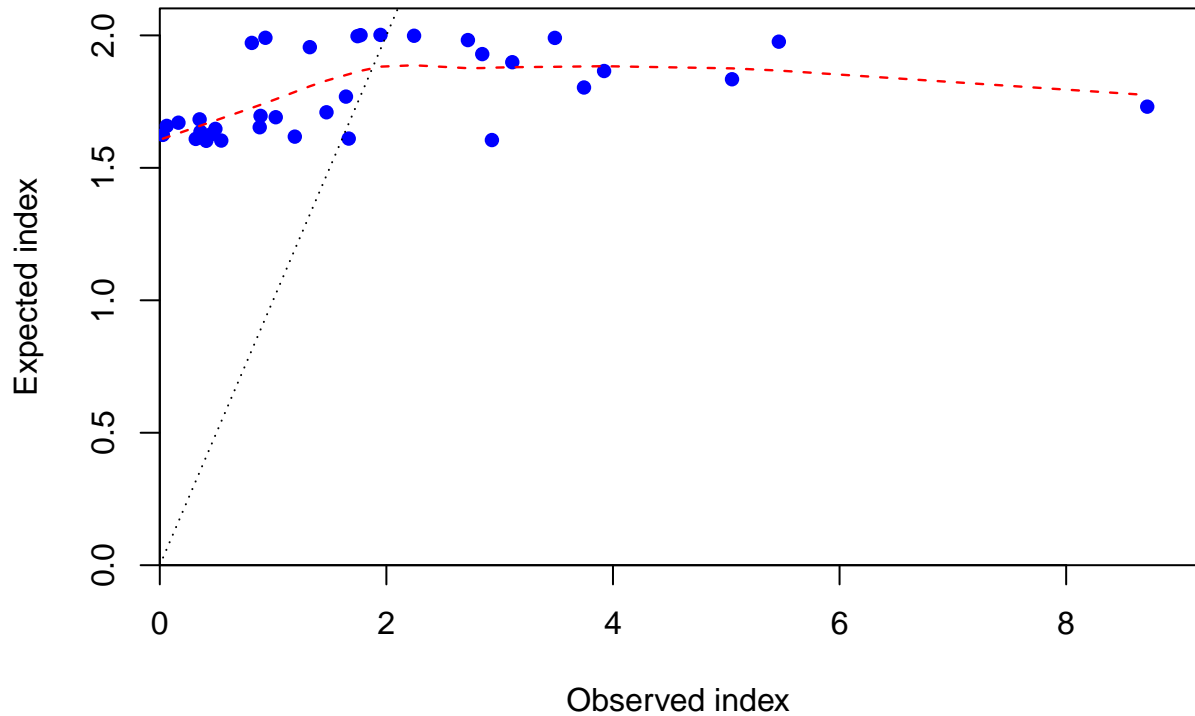
Relative spawning output: B/B_{MSY}

Index

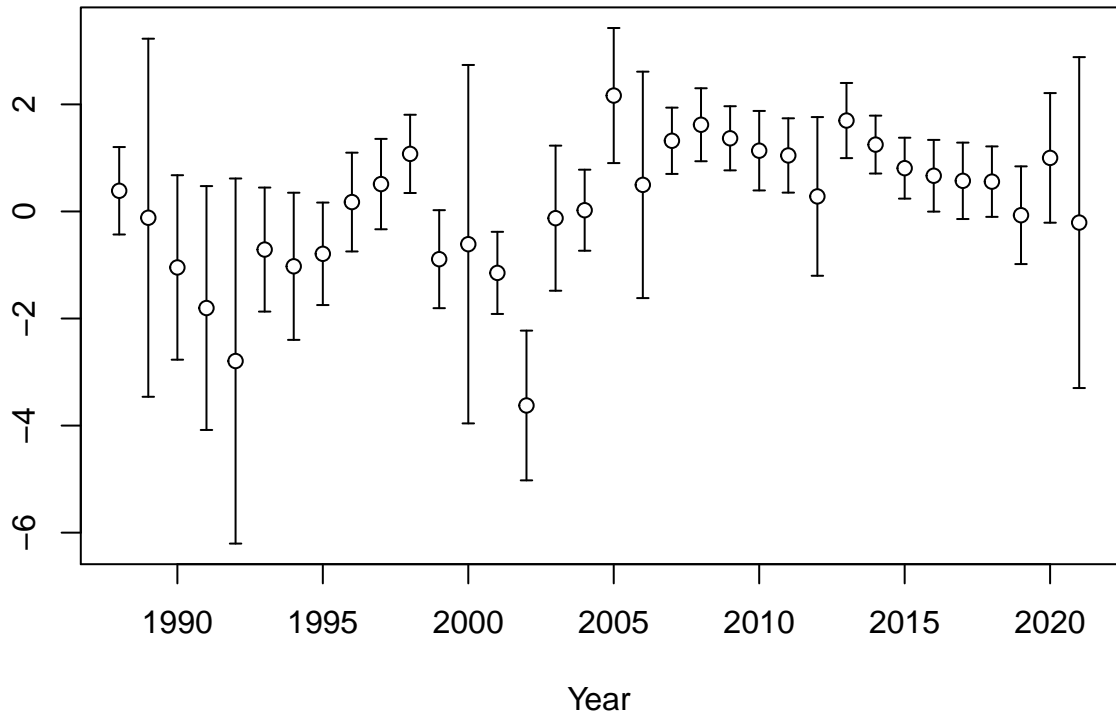


Index

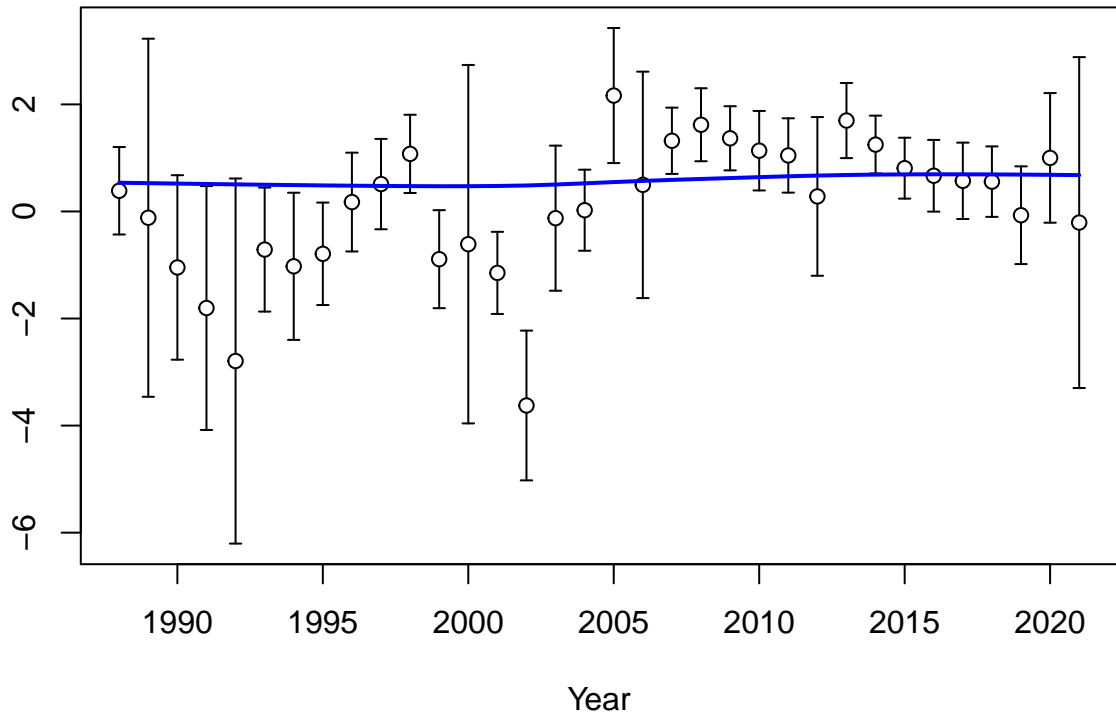


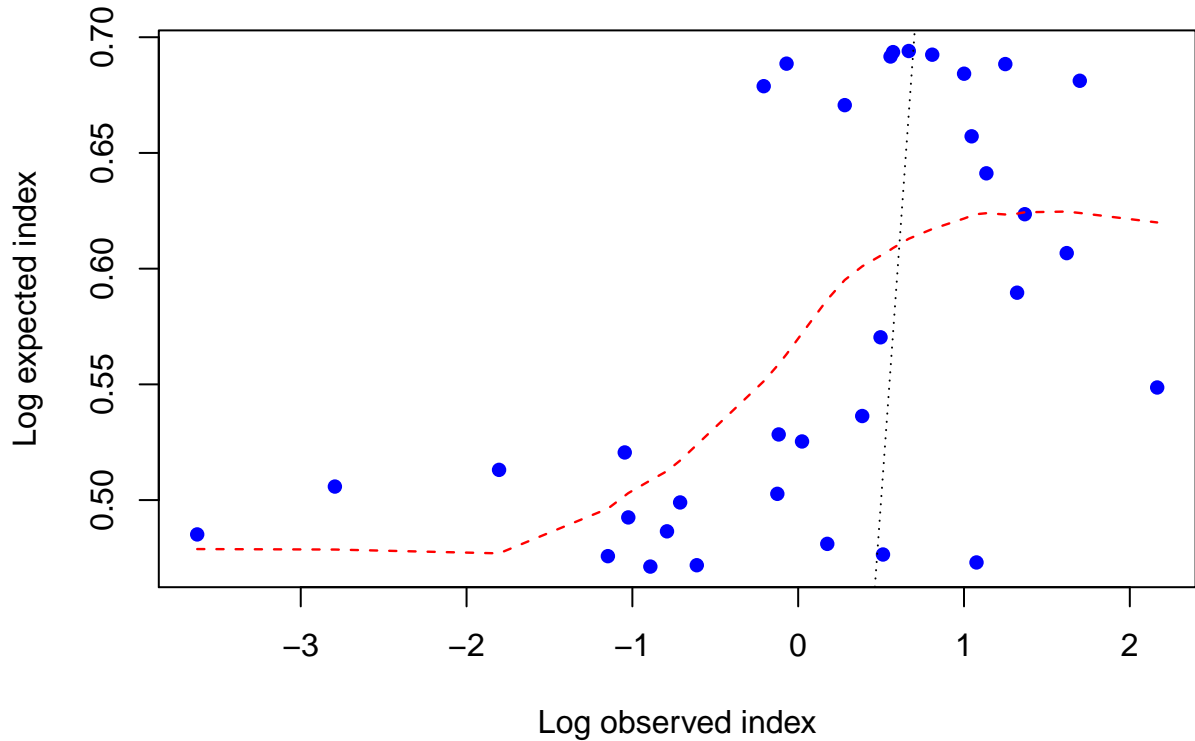


Log index

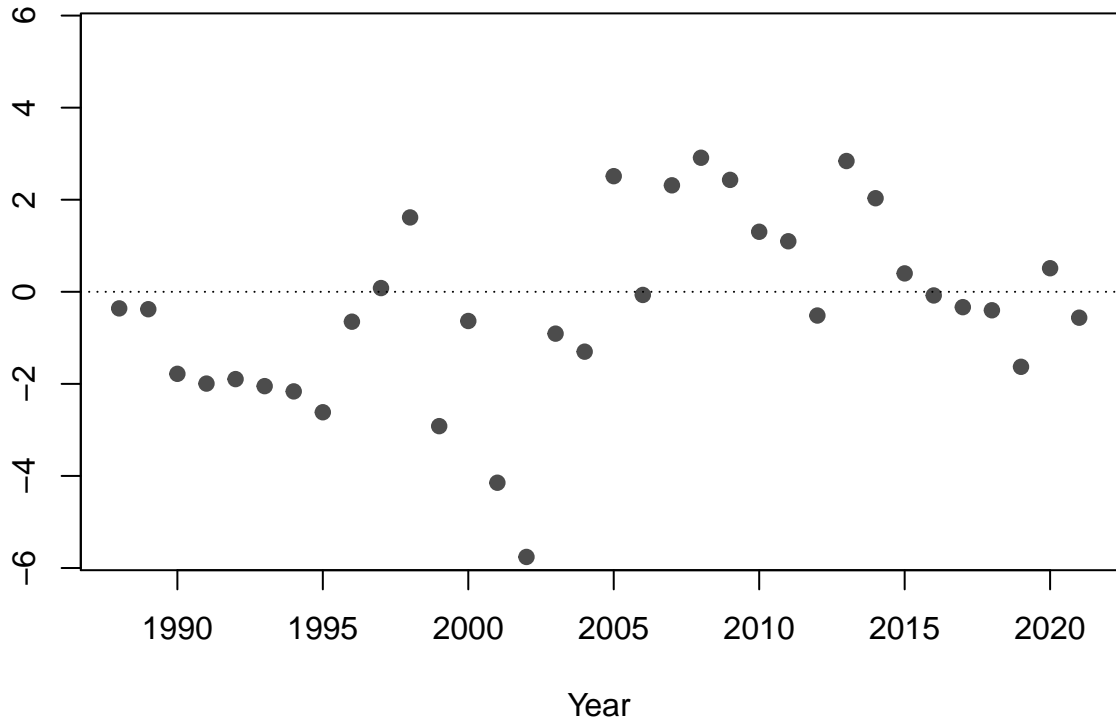


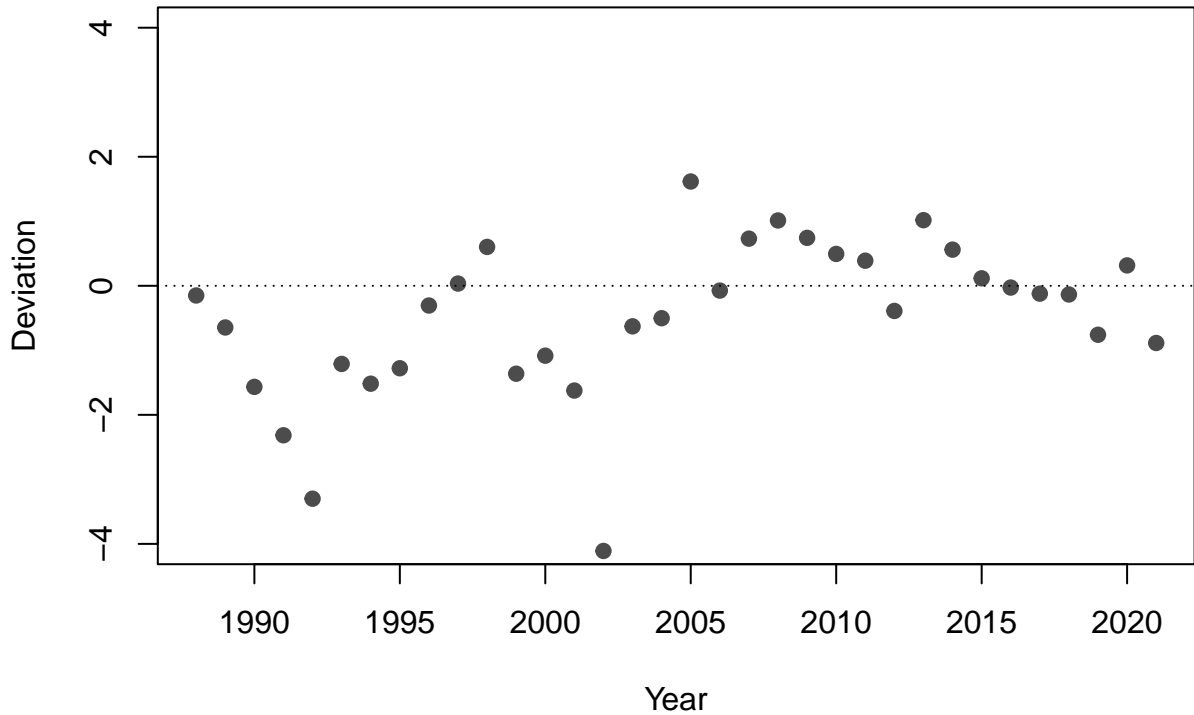
Log index

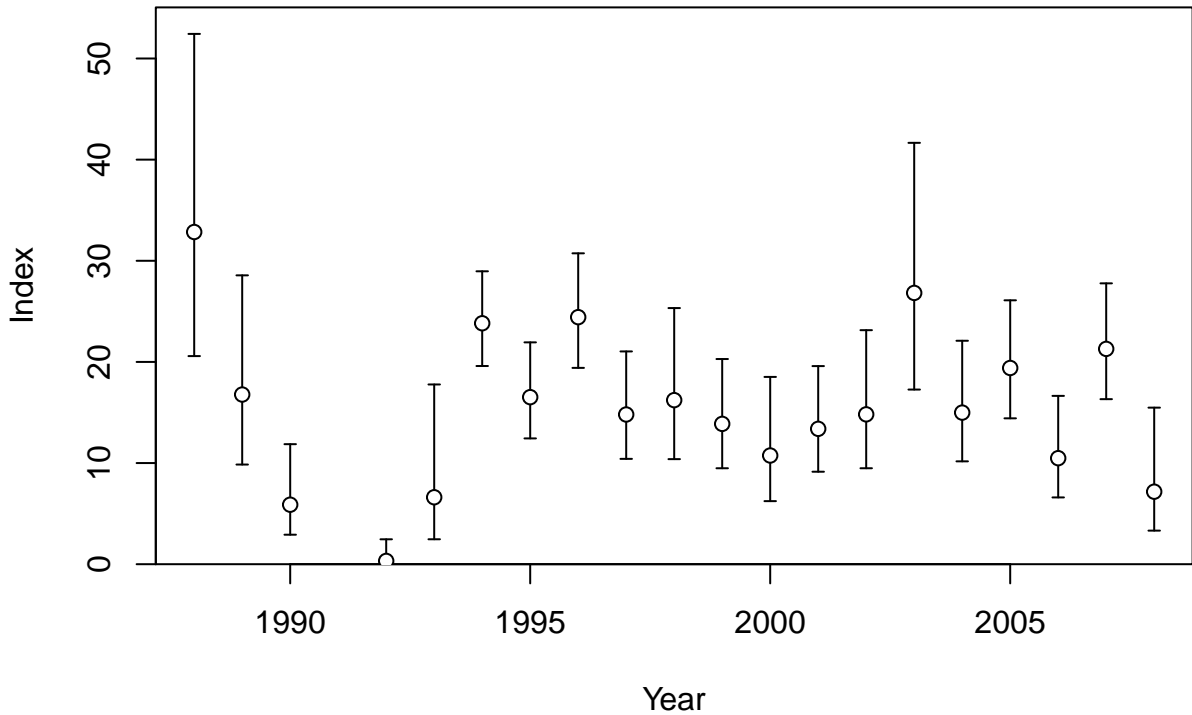


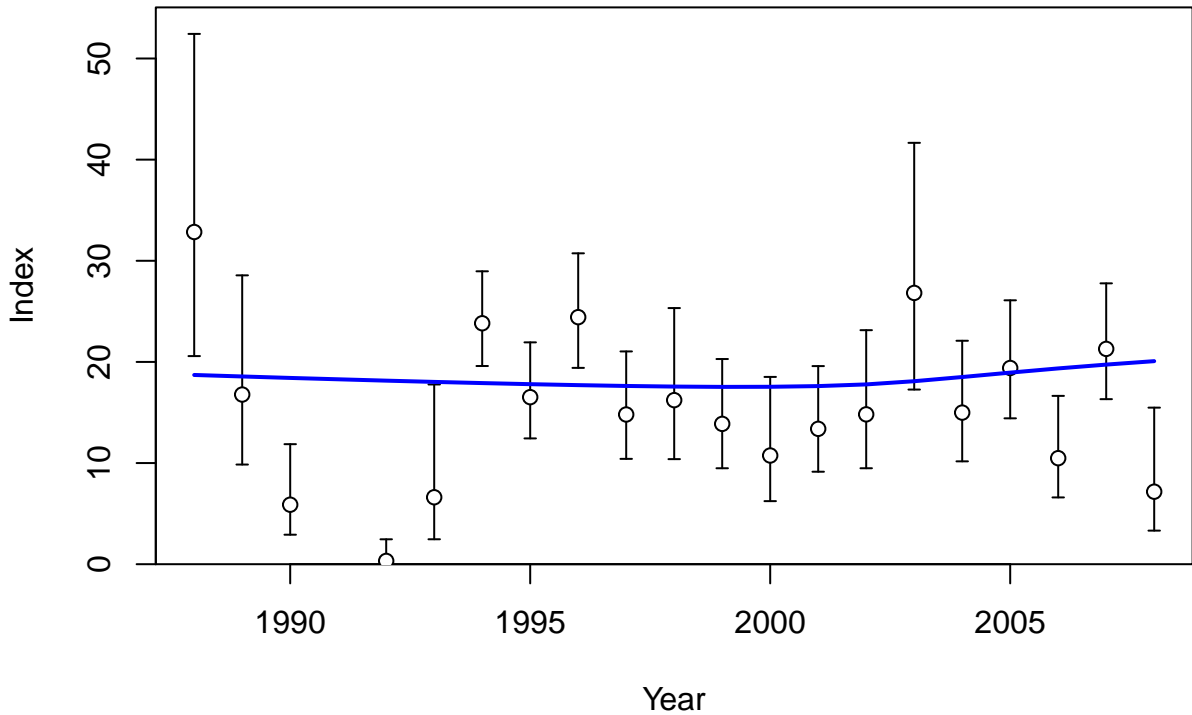


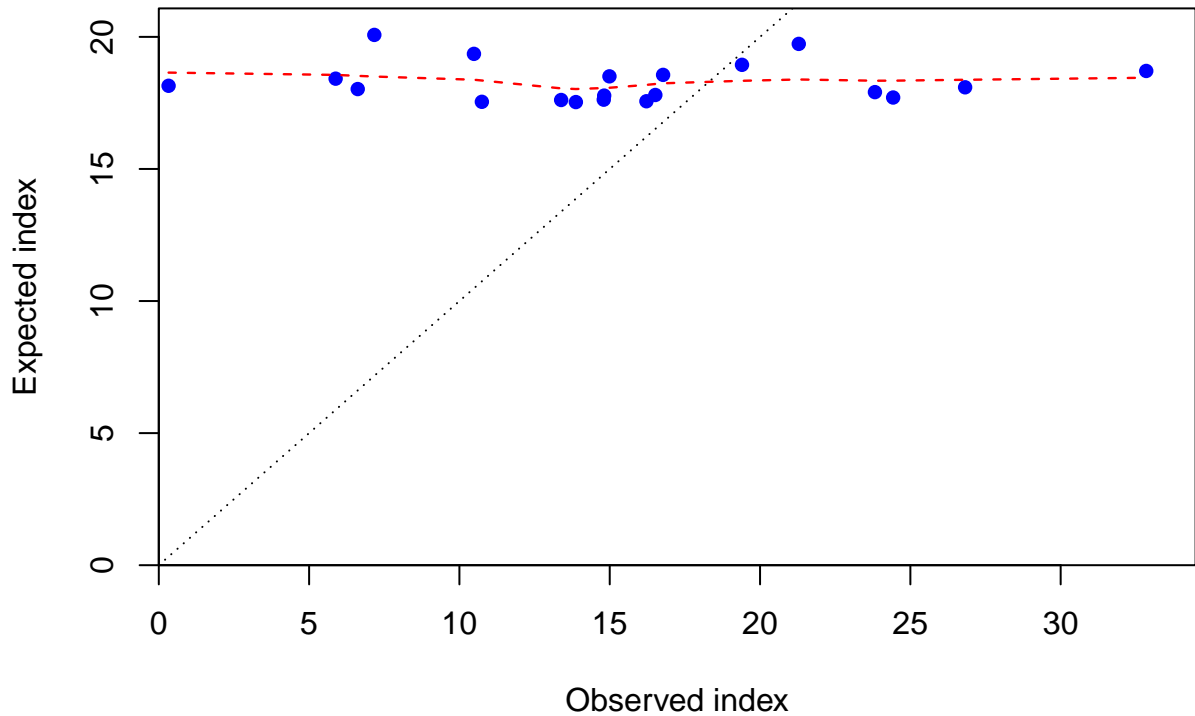
Residual



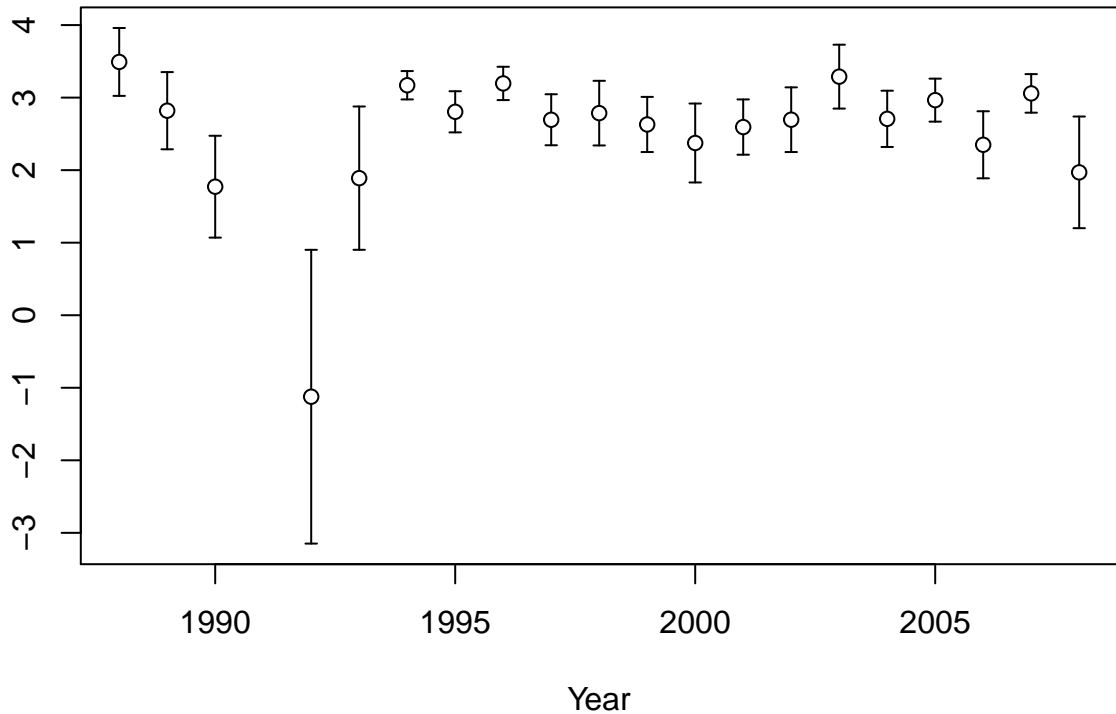




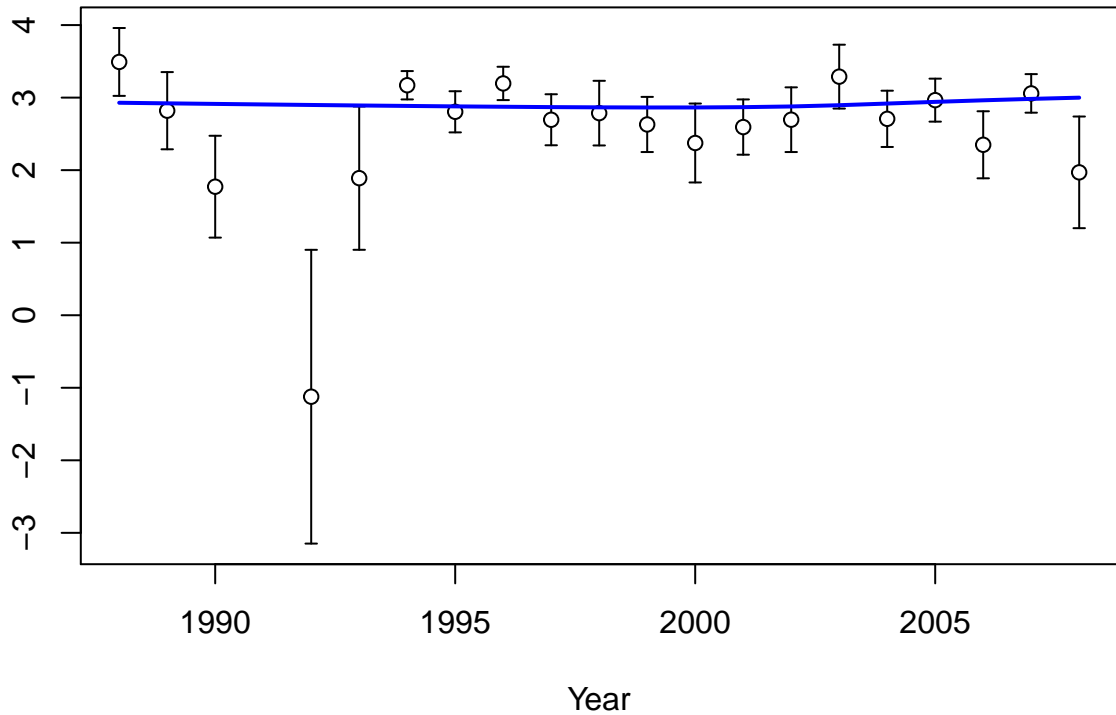


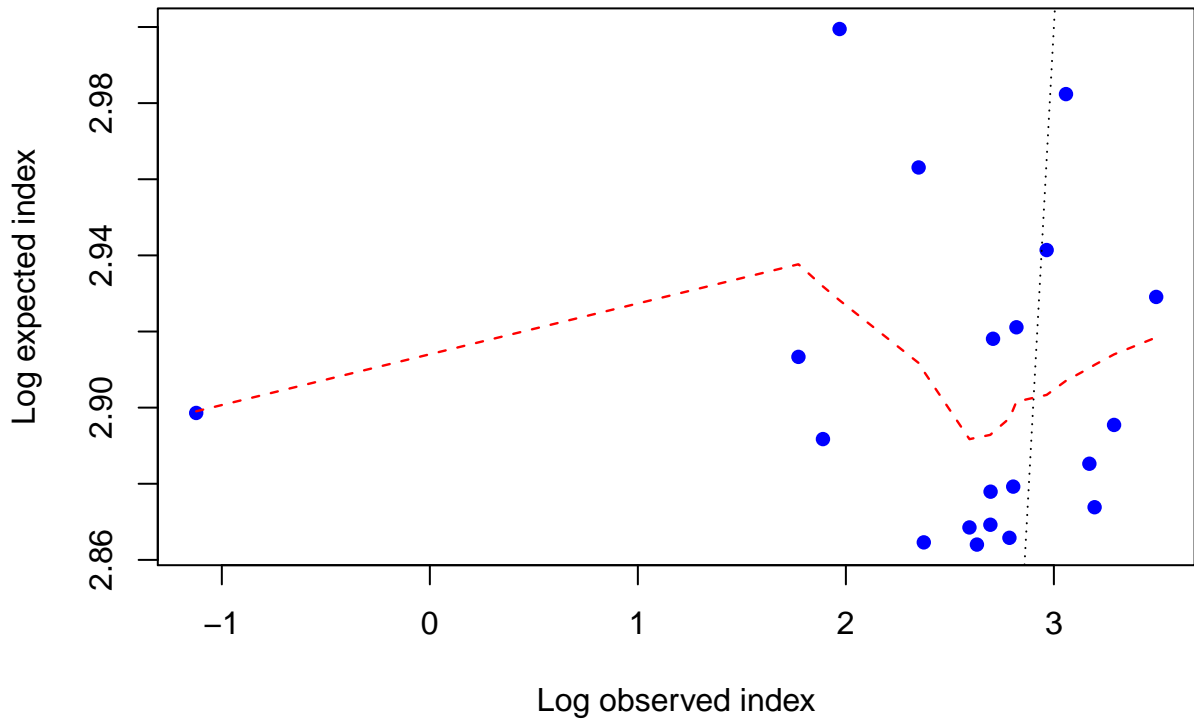


Log index

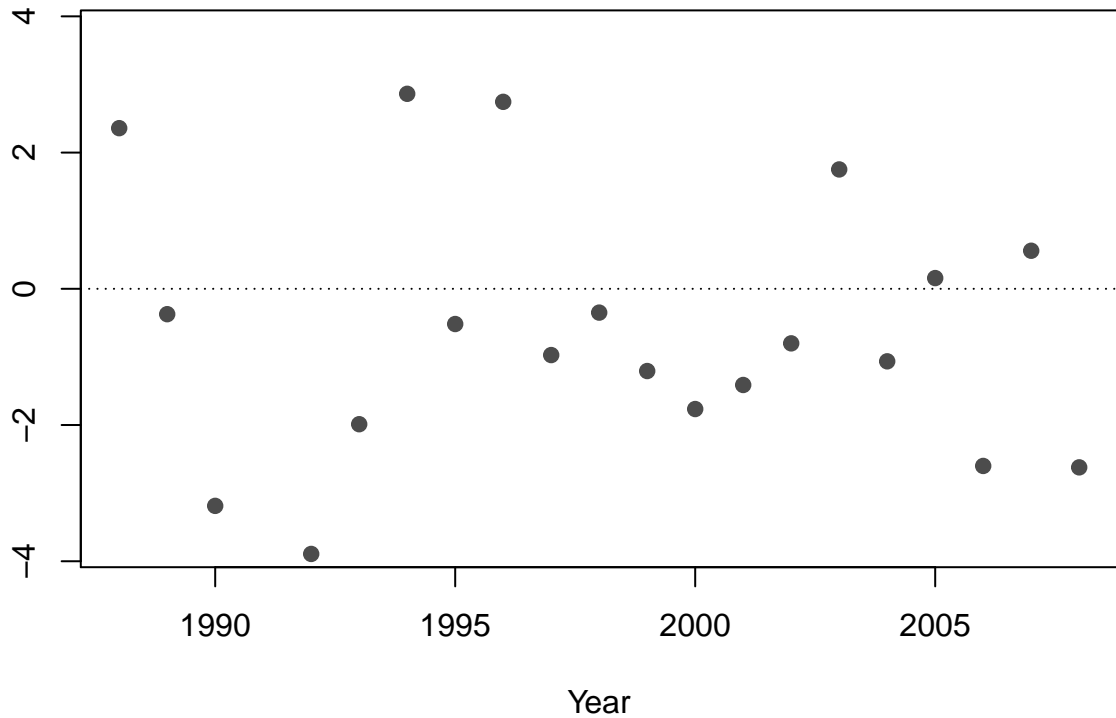


Log index

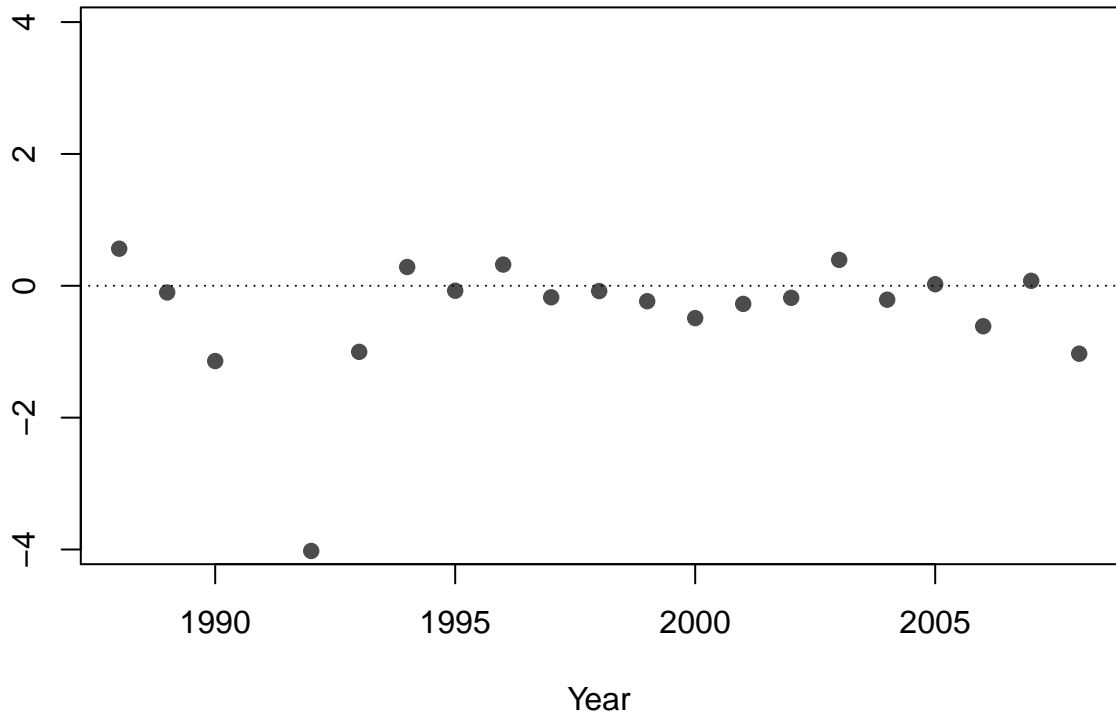


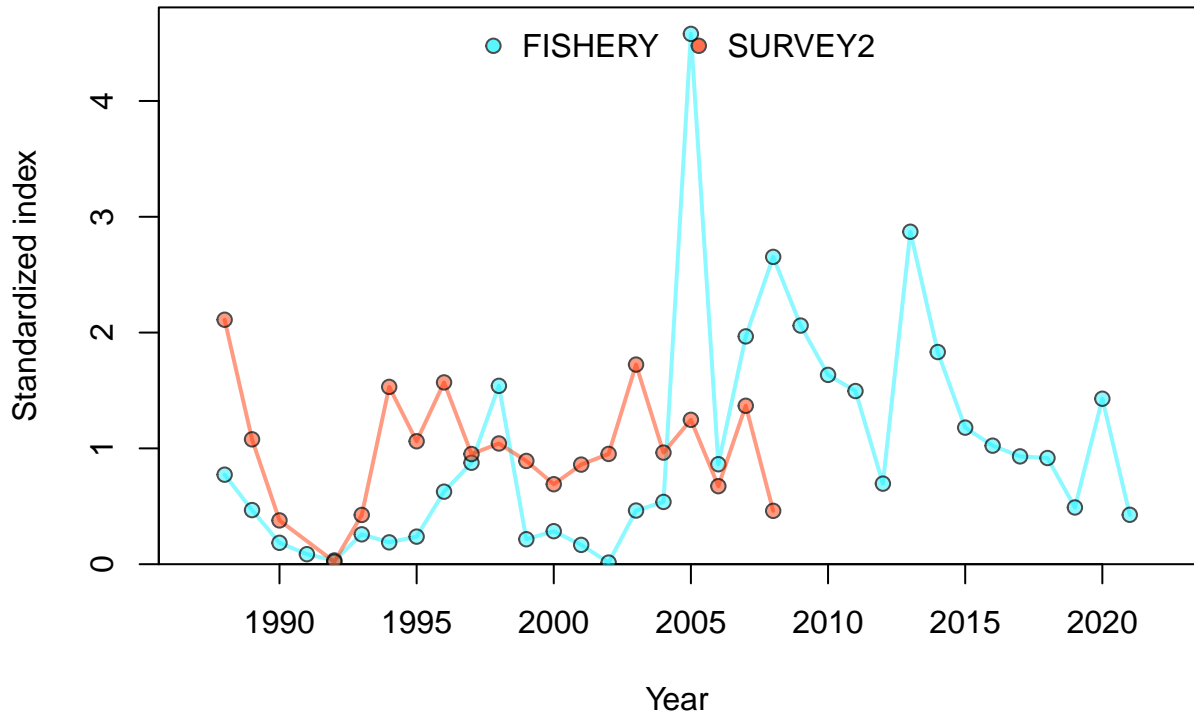


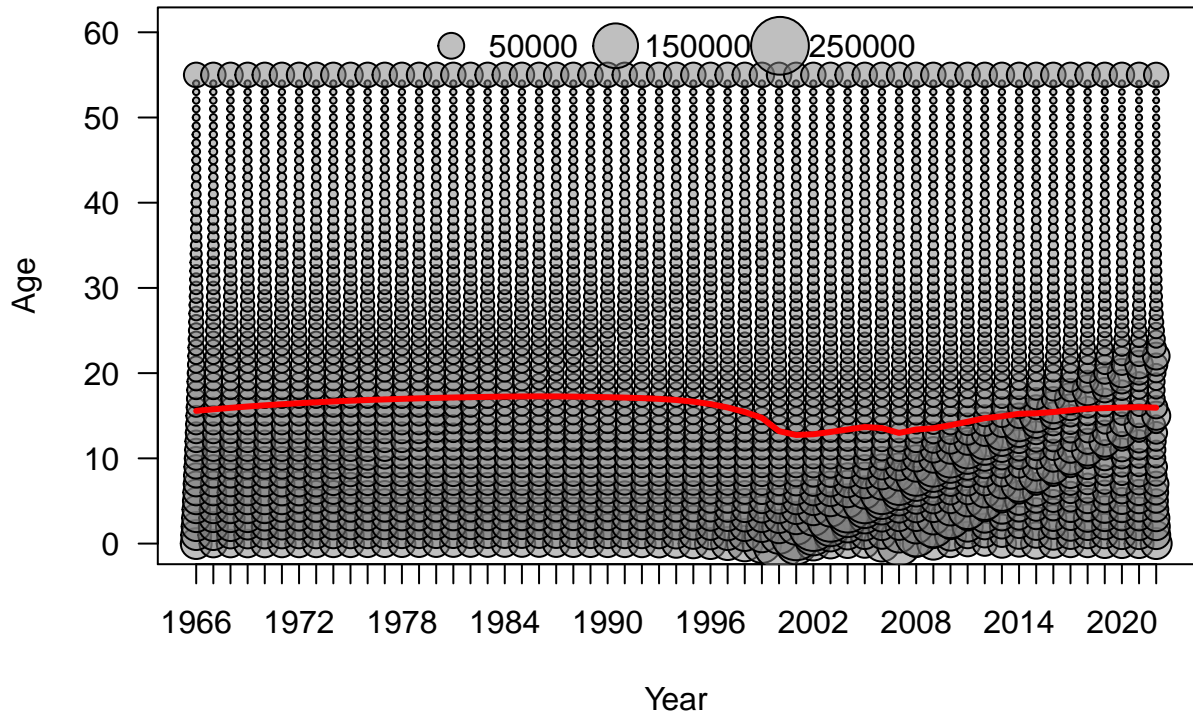
Residual

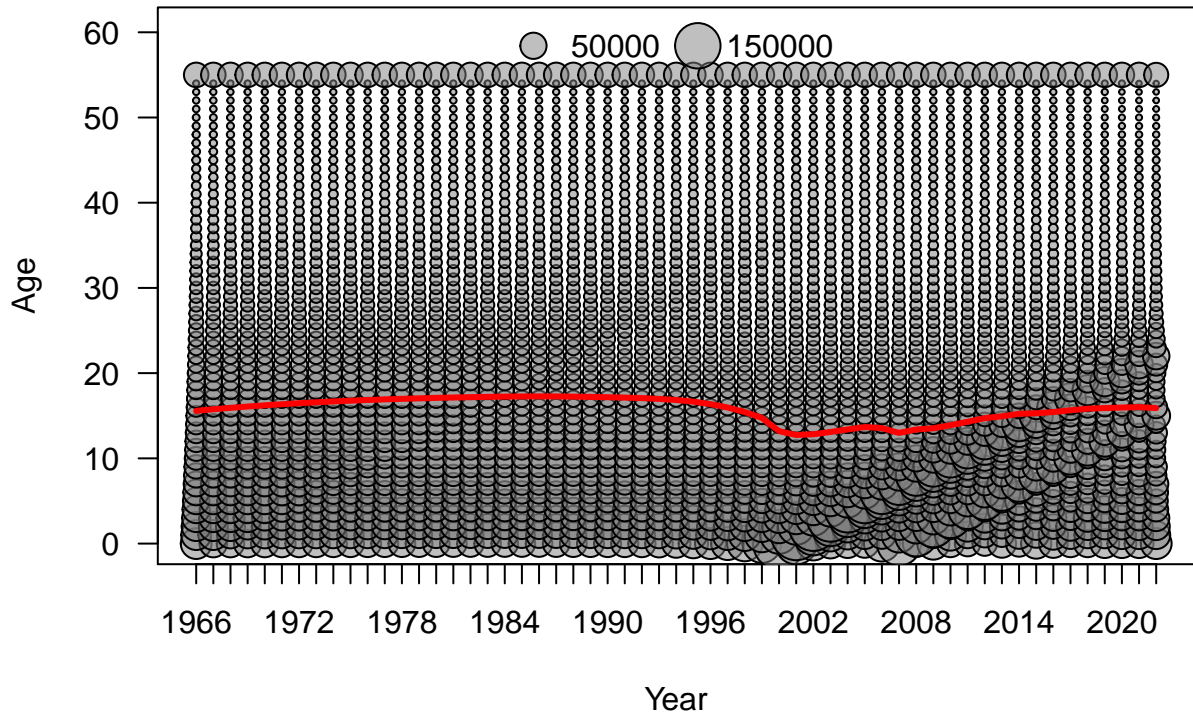


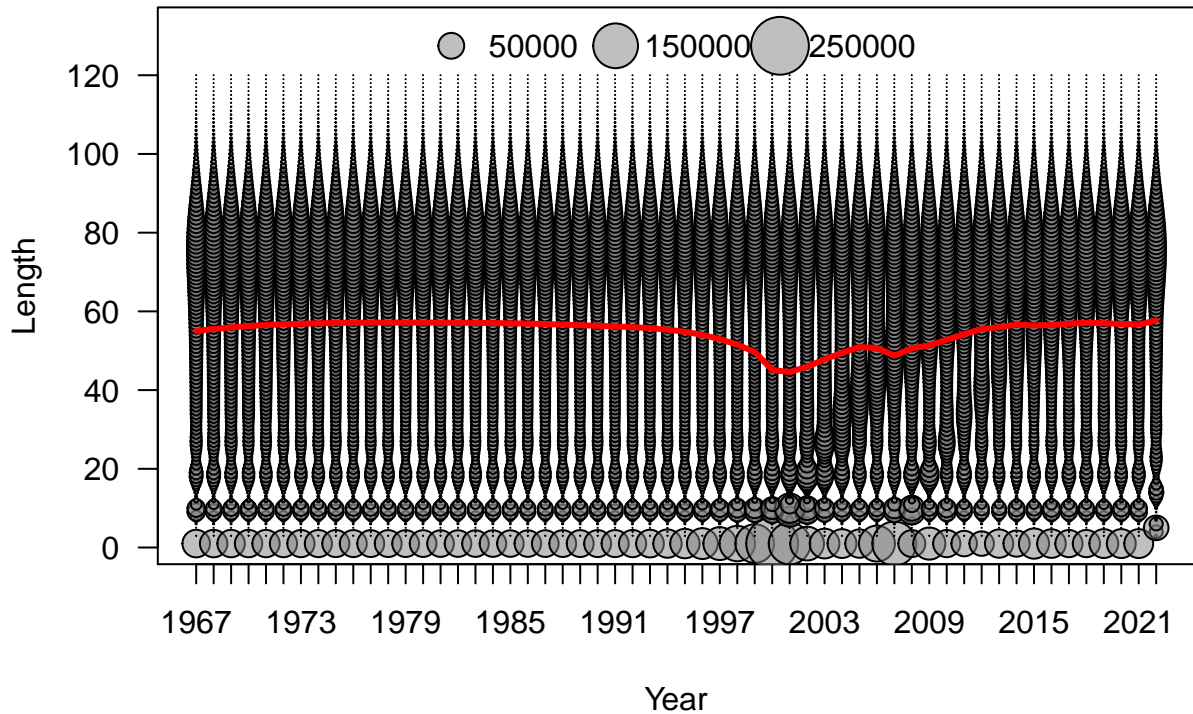
Deviation

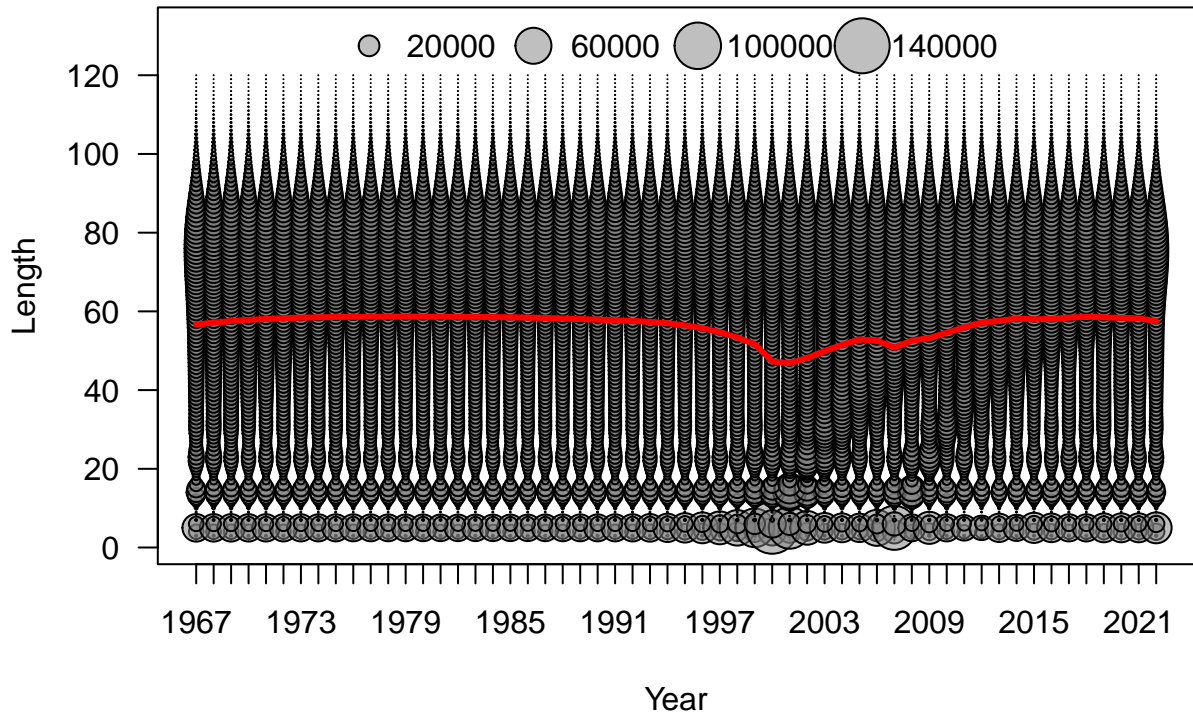


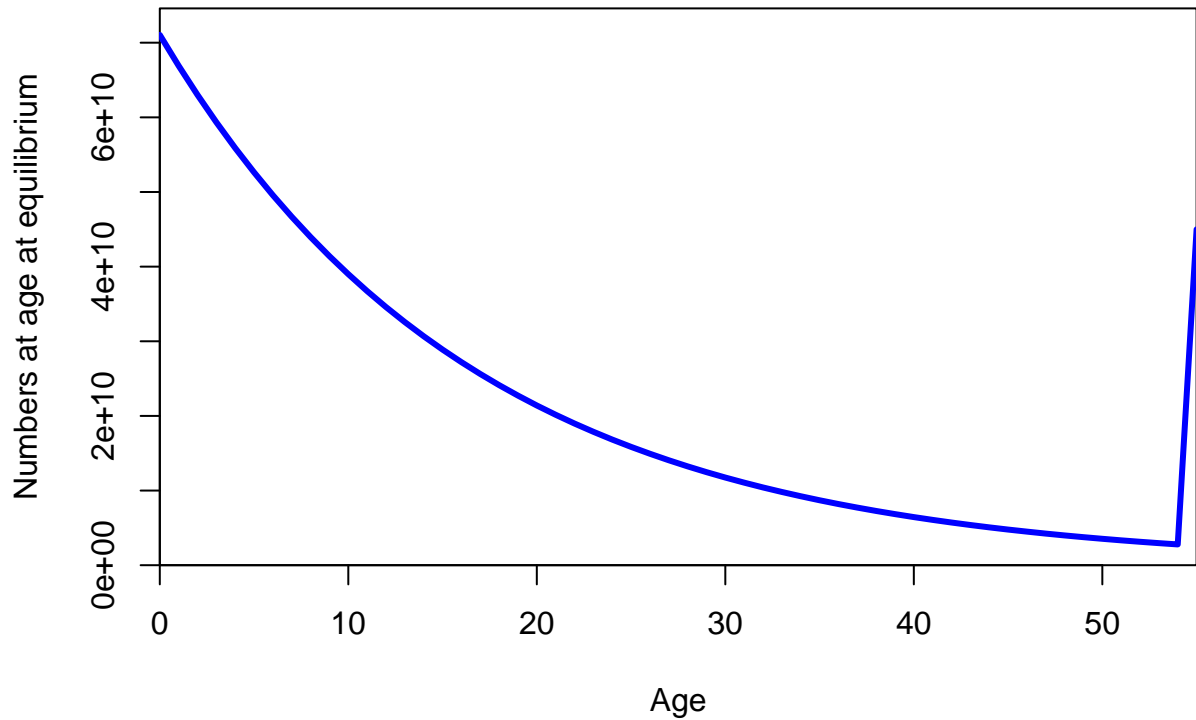






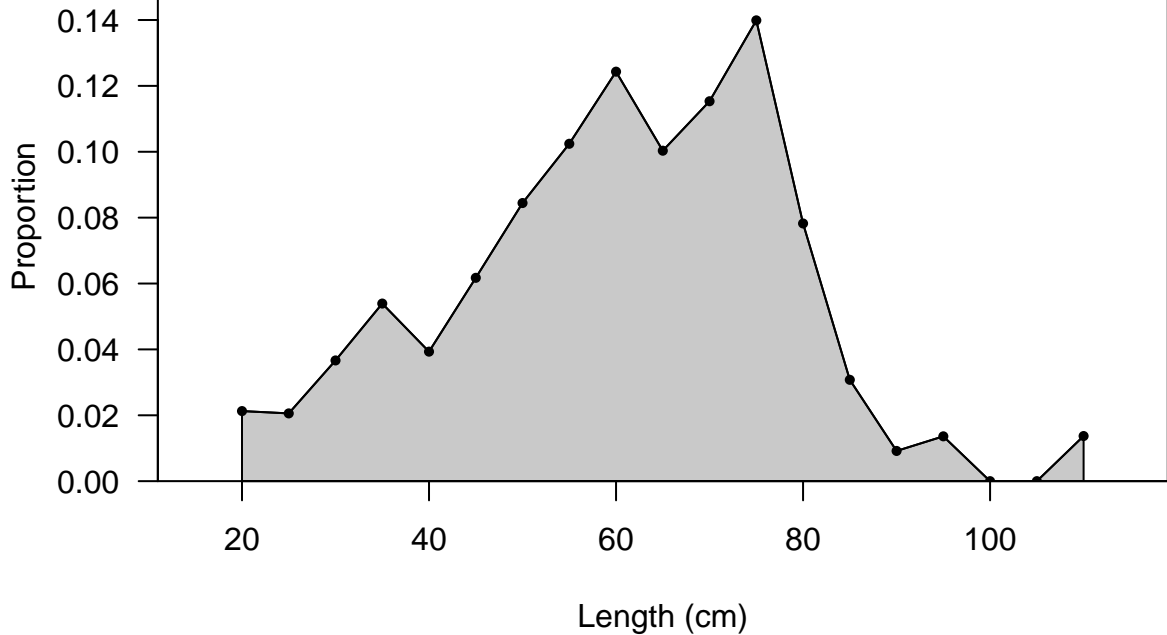






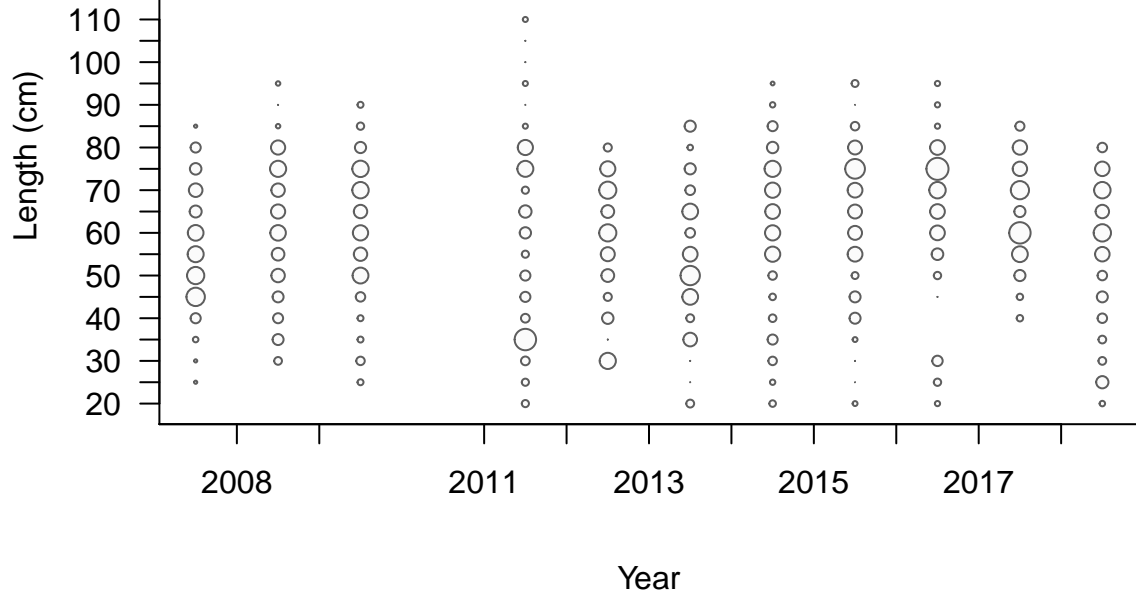
FISHERY

Sum of N adj.=345.8

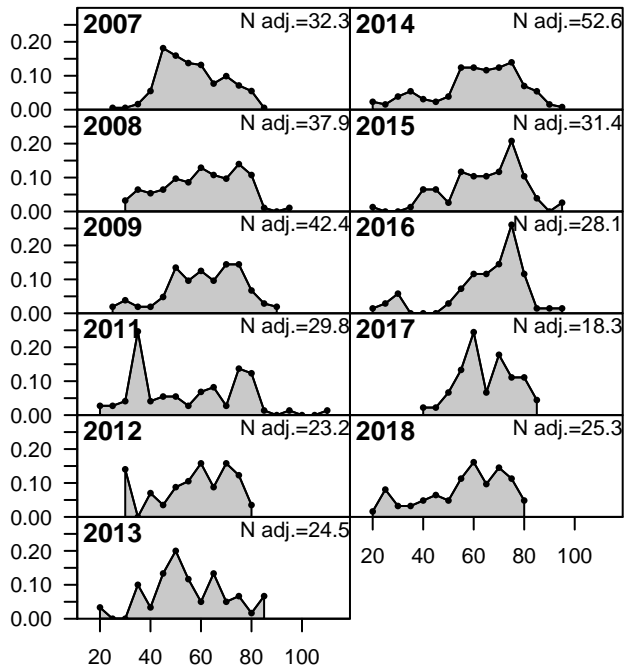


FISHERY

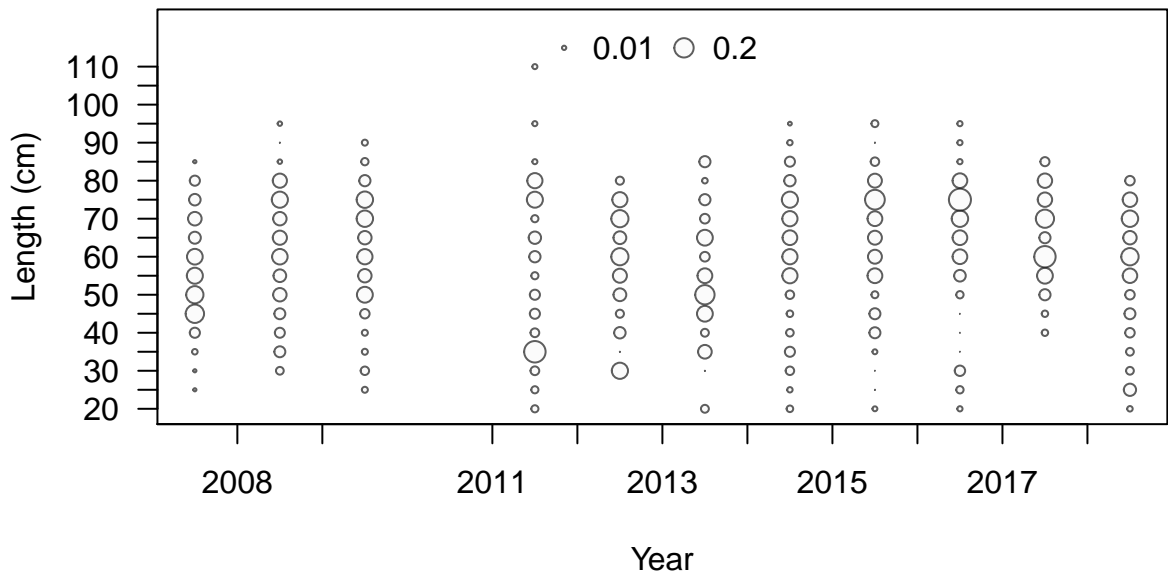
◦ 0.01 ○ 0.2



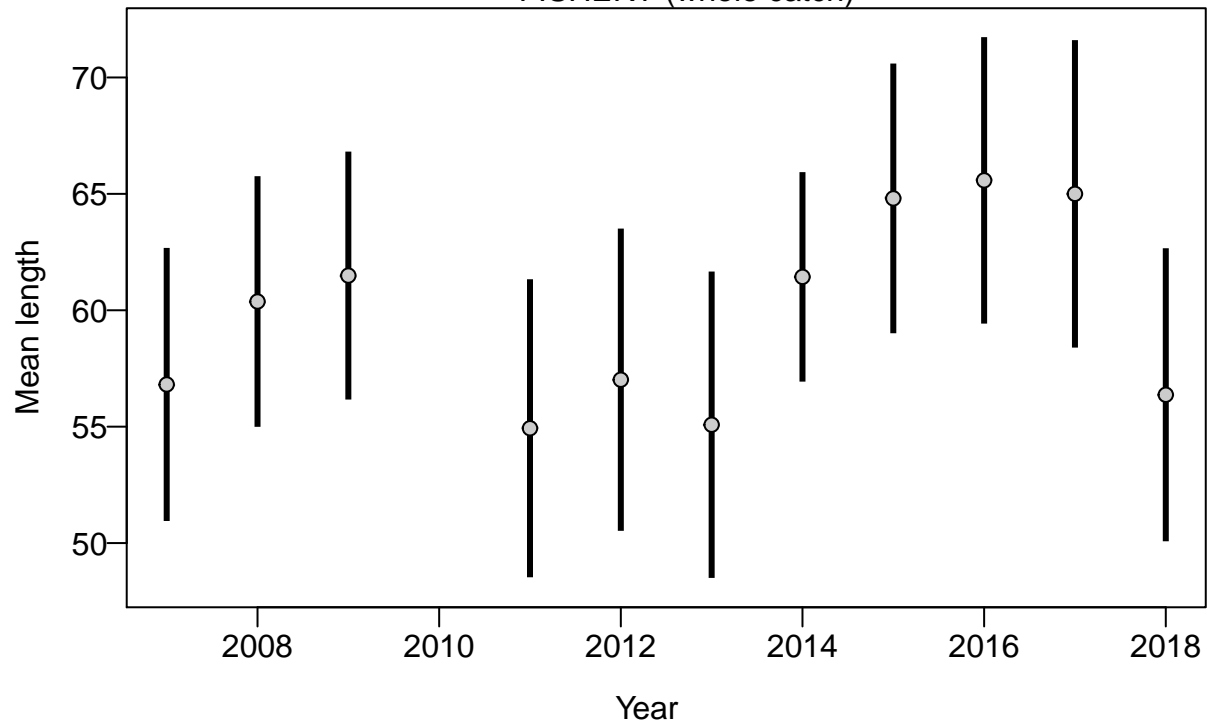
Proportion



Length (cm)

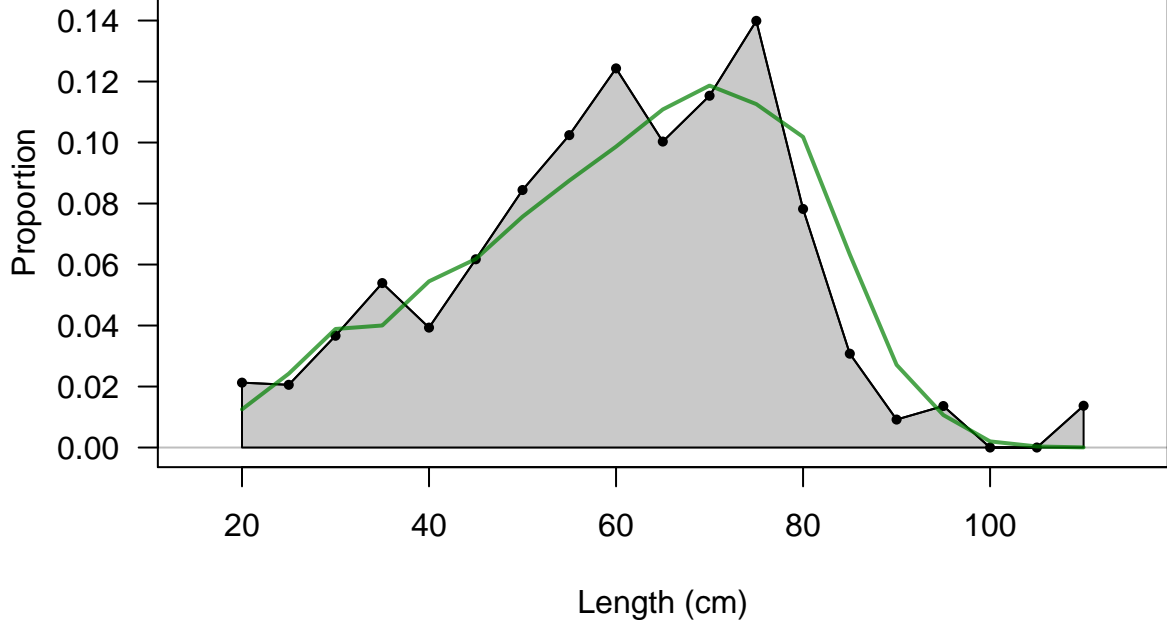


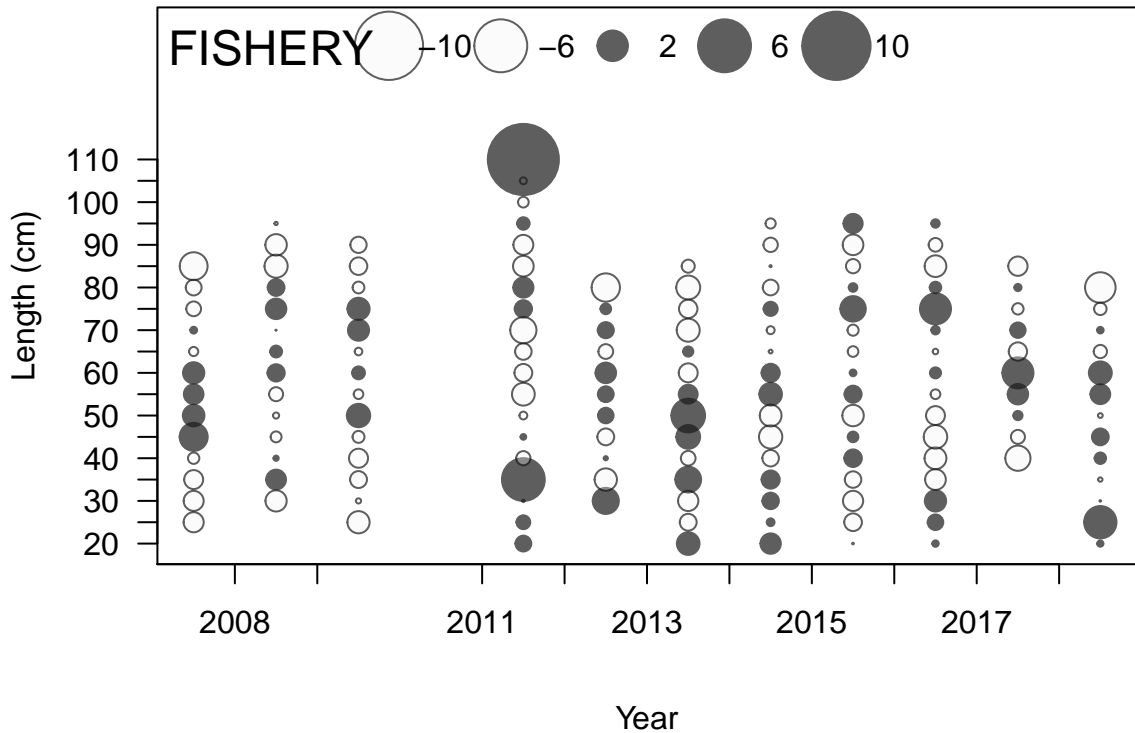
FISHERY (whole catch)



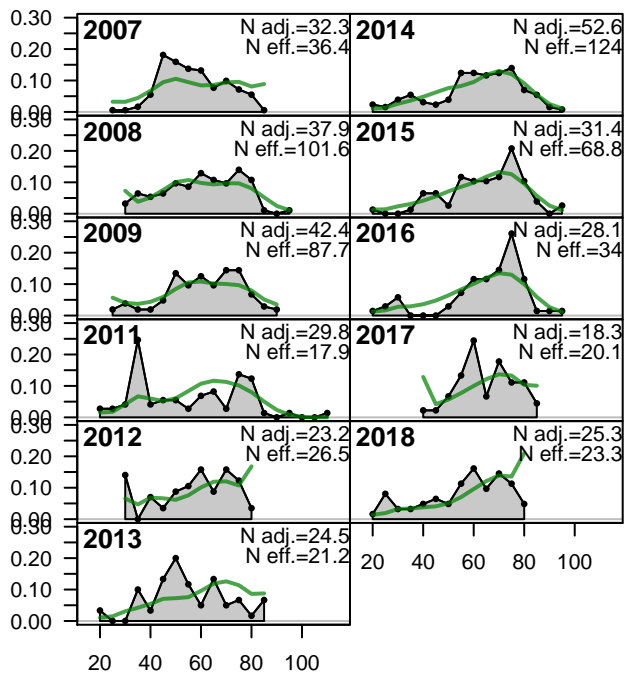
FISHERY

Sum of N adj.=345.8
Sum of N eff.=561.4

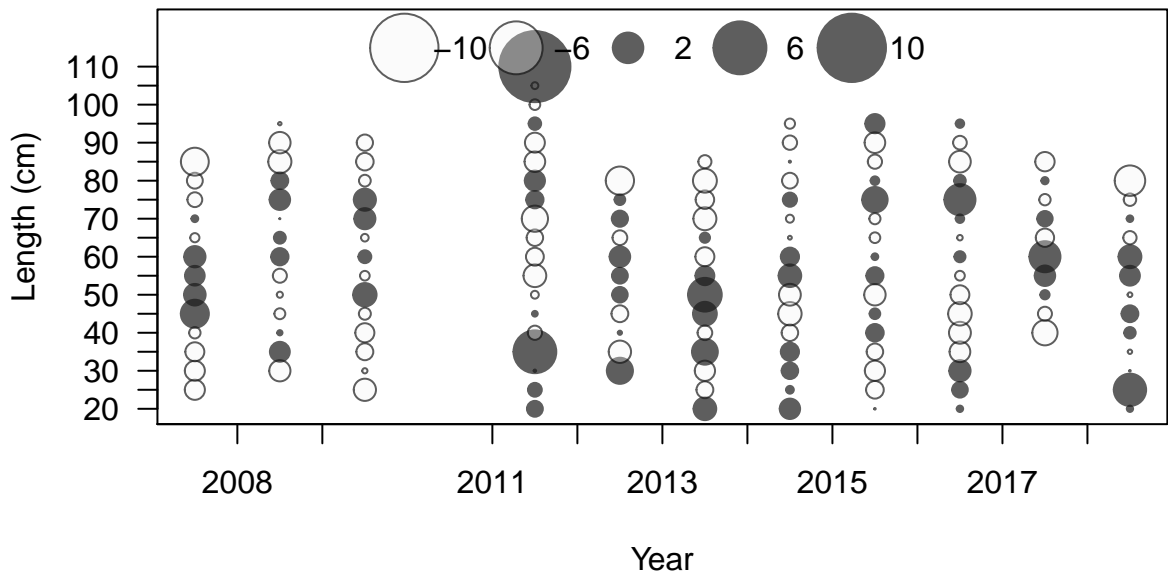




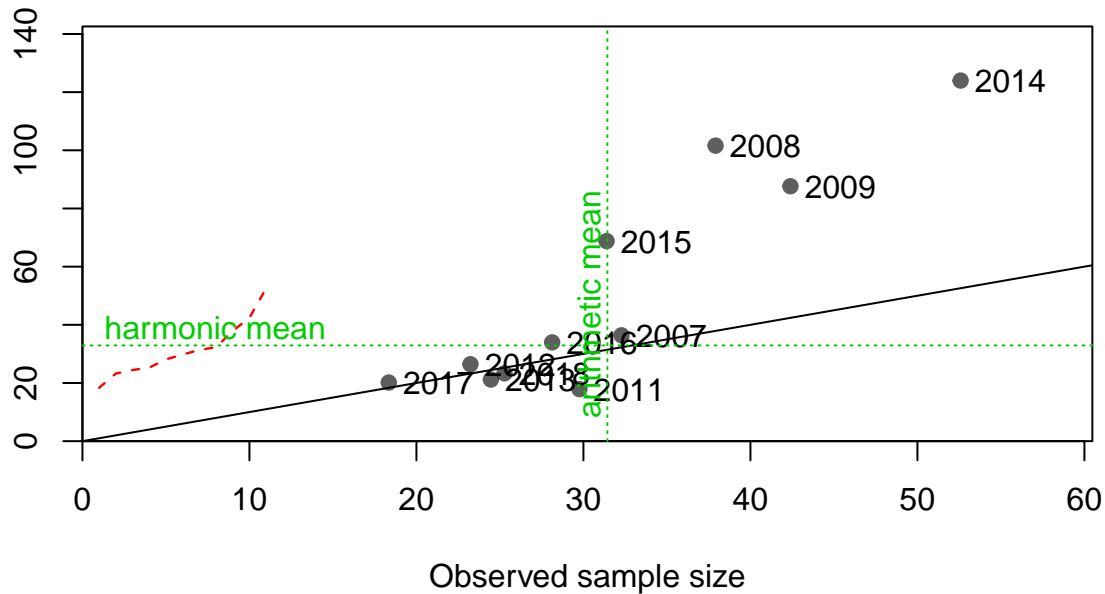
Proportion



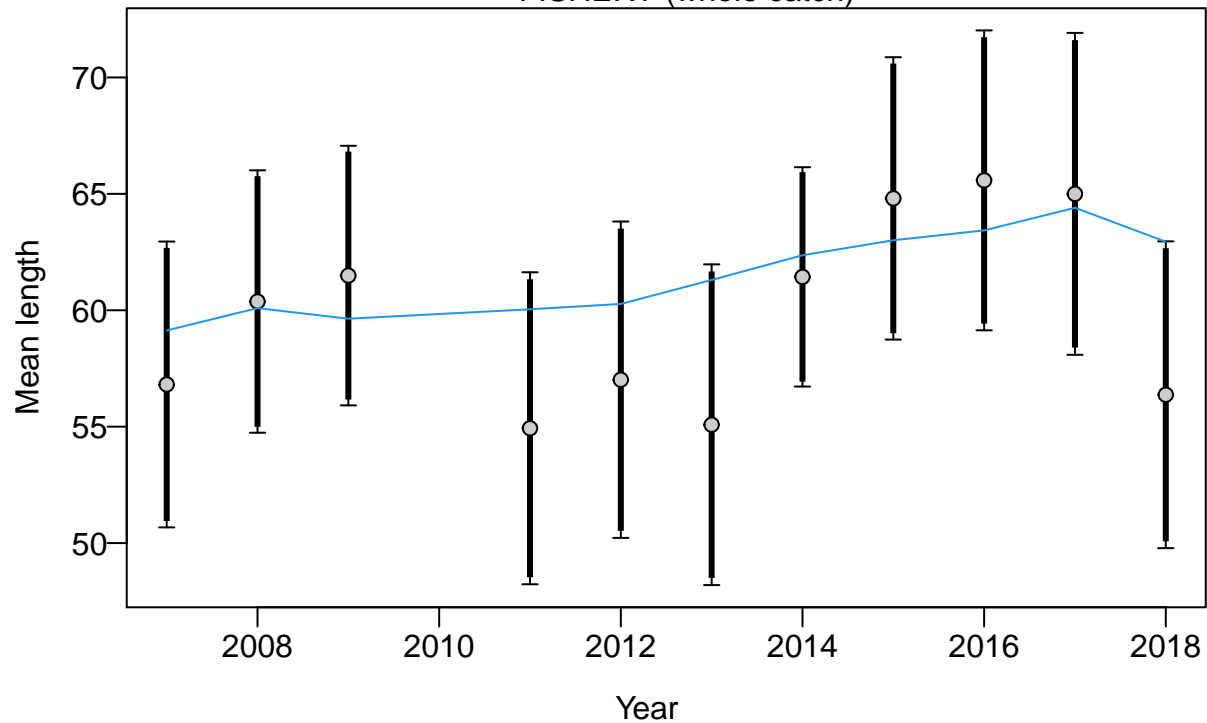
Length (cm)

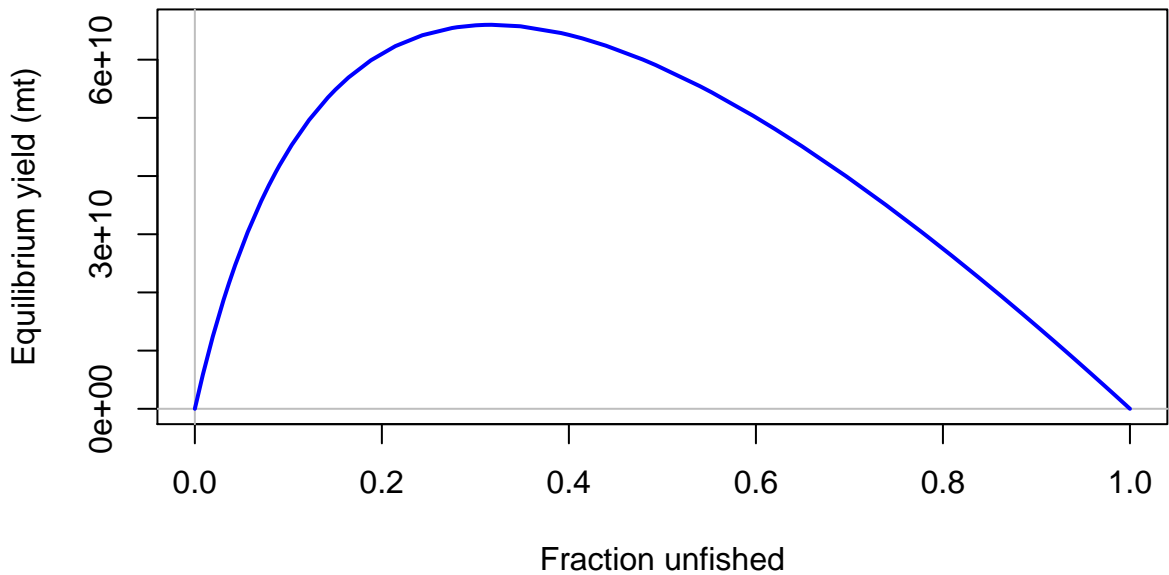


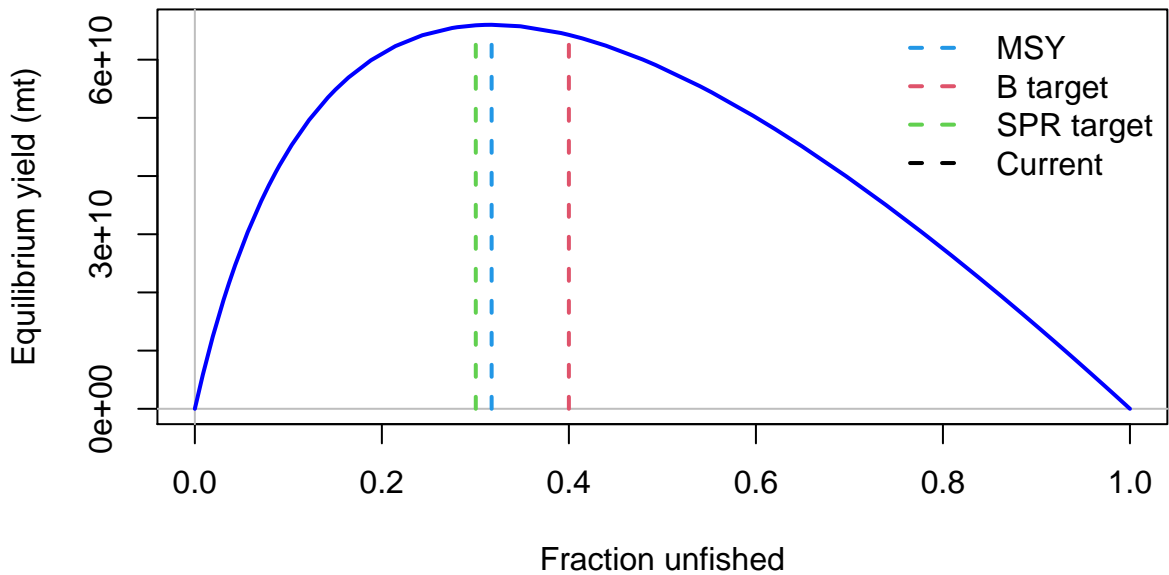
Effective sample size

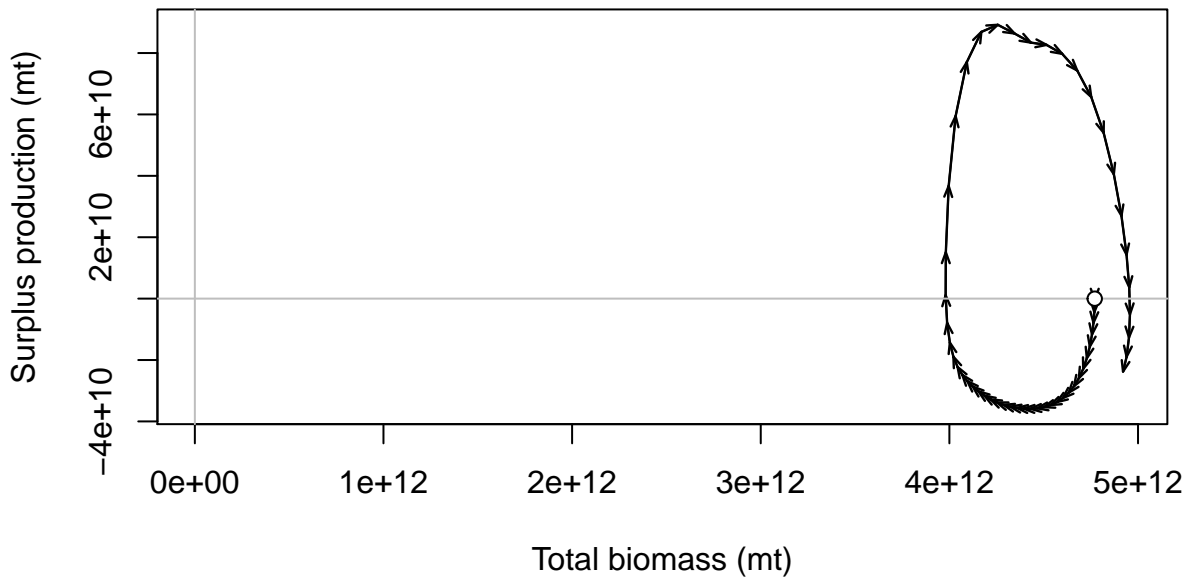


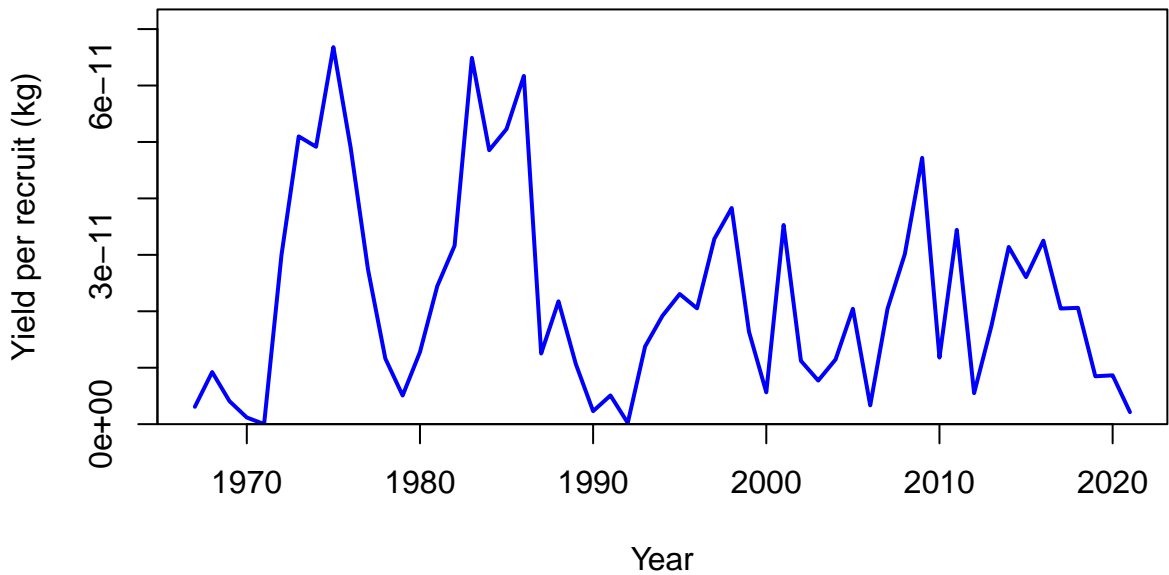
FISHERY (whole catch)

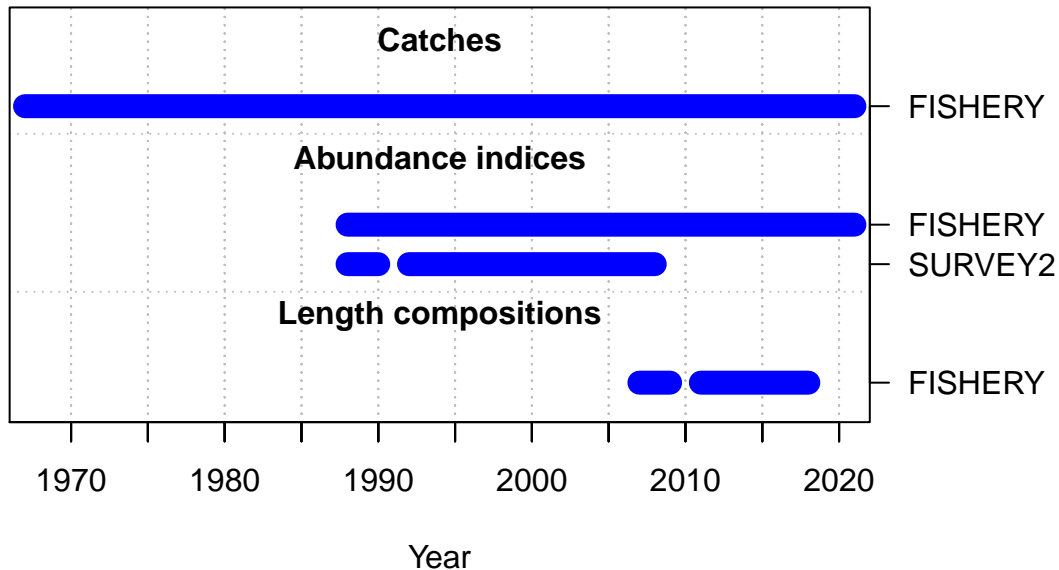


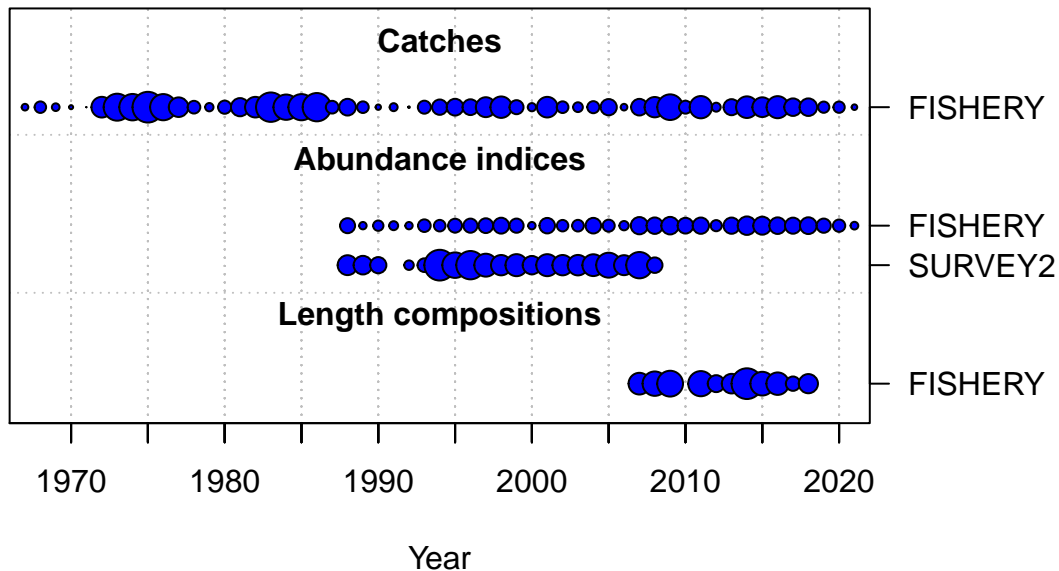




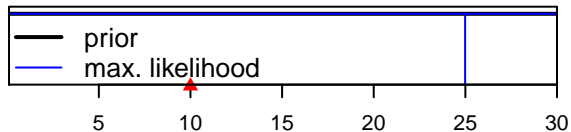




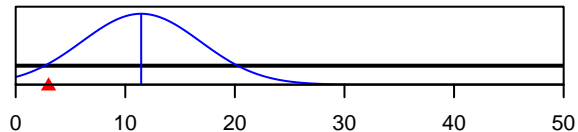




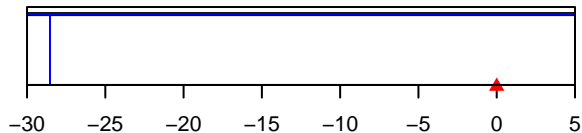
SR_LN(R0)



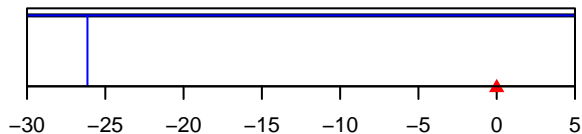
Size_95%width_FISHERY(1)



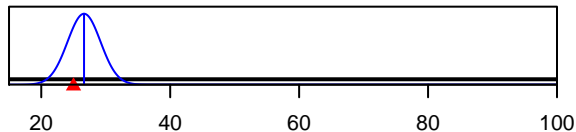
LnQ_base_FISHERY(1)



LnQ_base_SURVEY2(2)



Size_inflection_FISHERY(1)



Parameter value