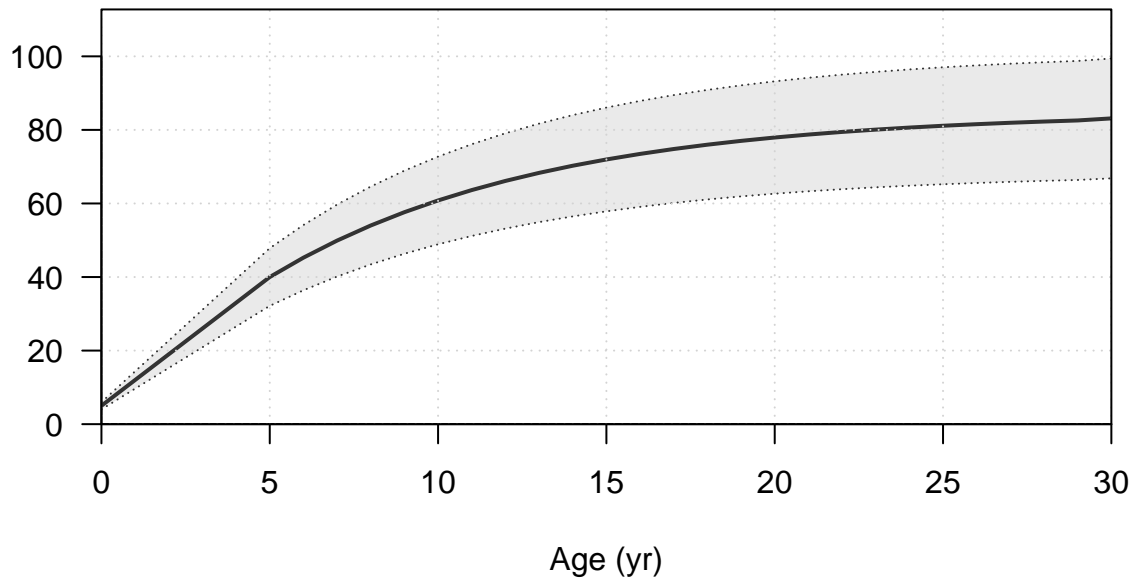
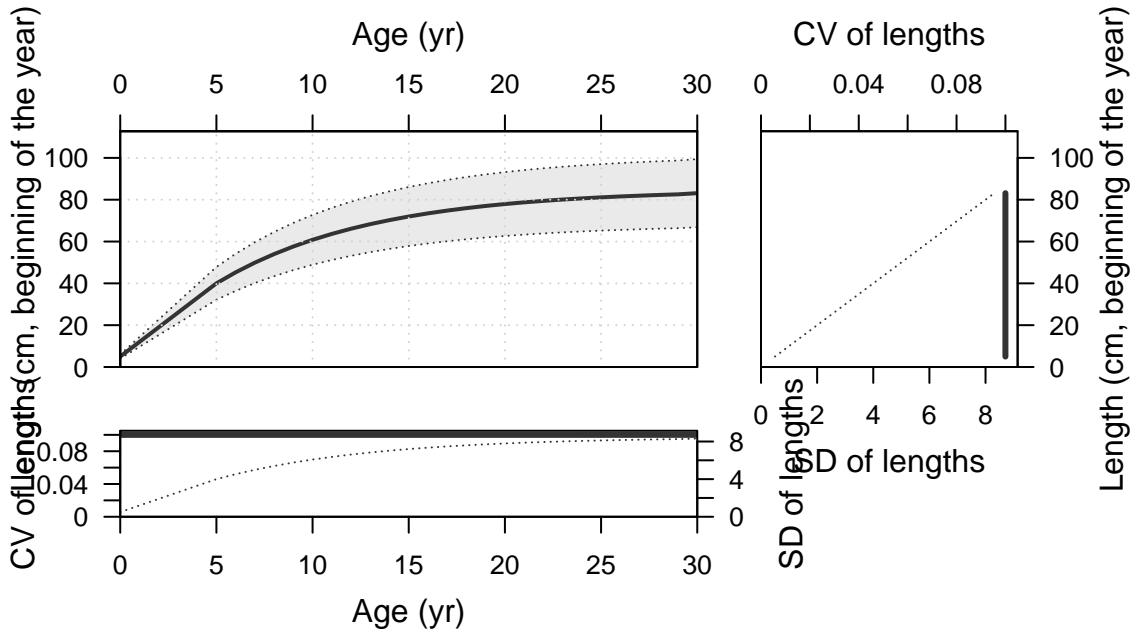
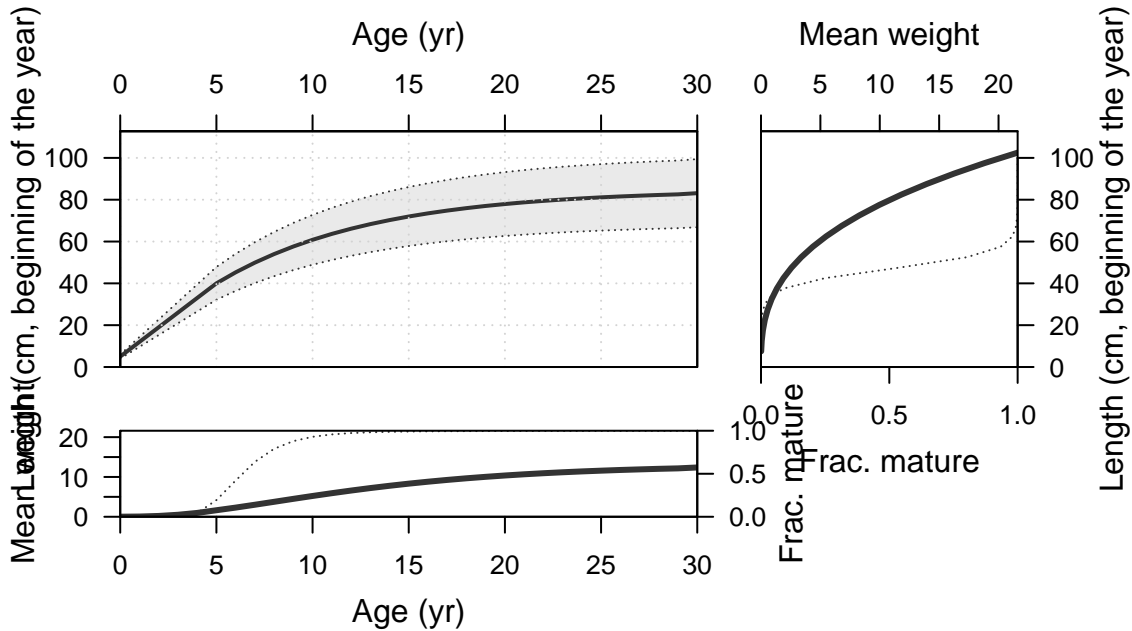


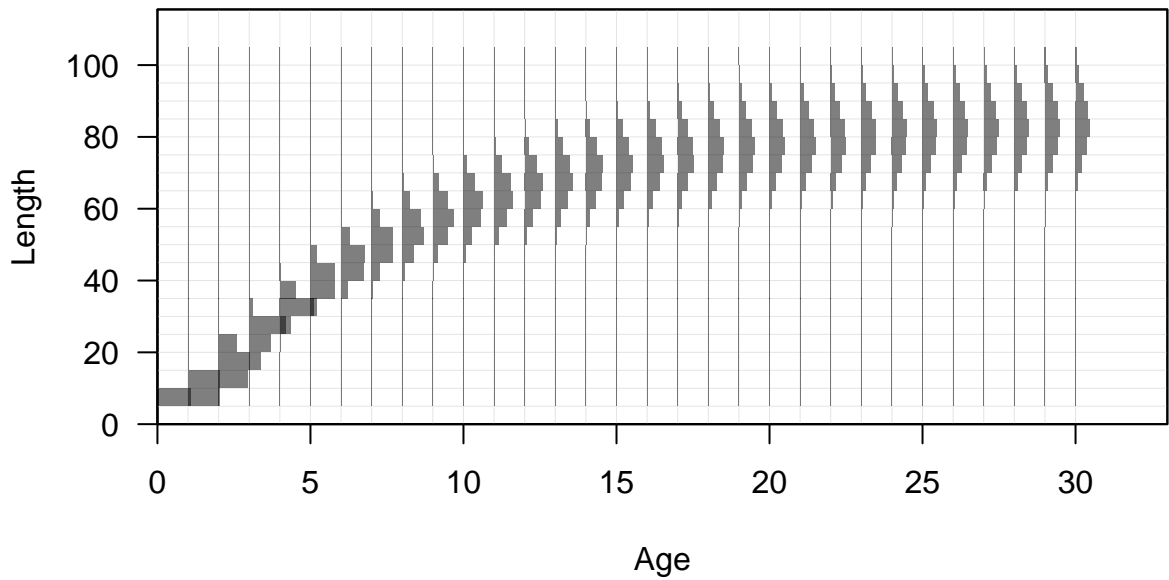
Plots created using the 'r4ss' package in R
Stock Synthesis version: 3.30.19.0
StartTime: Thu Jun 16 09:58:45 2022
Data_File: data.ss
Control_File: control.ss

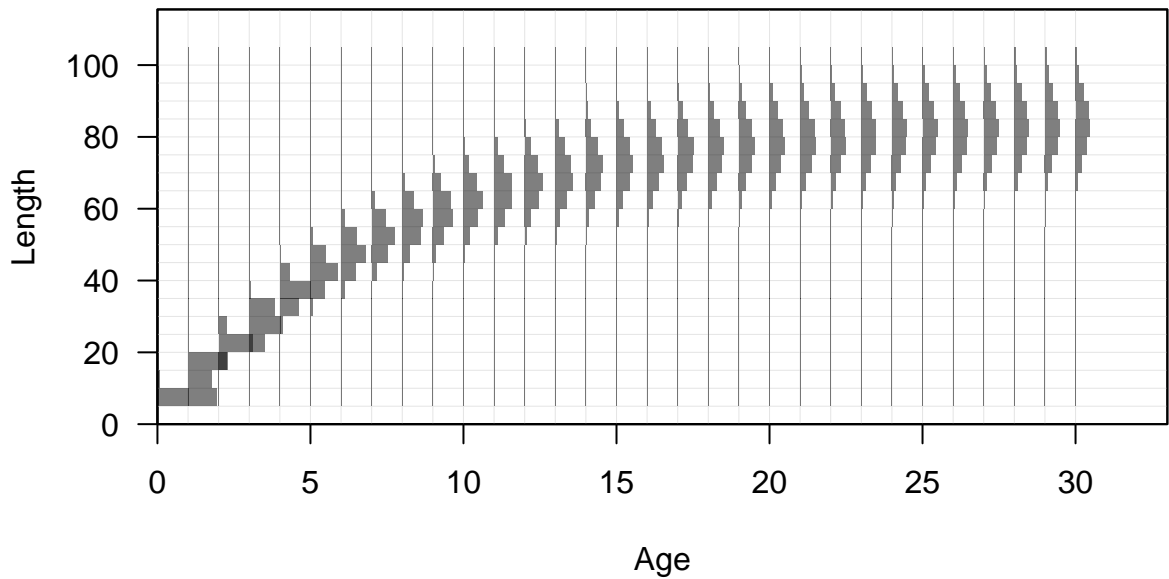
Length (cm, beginning of the year)

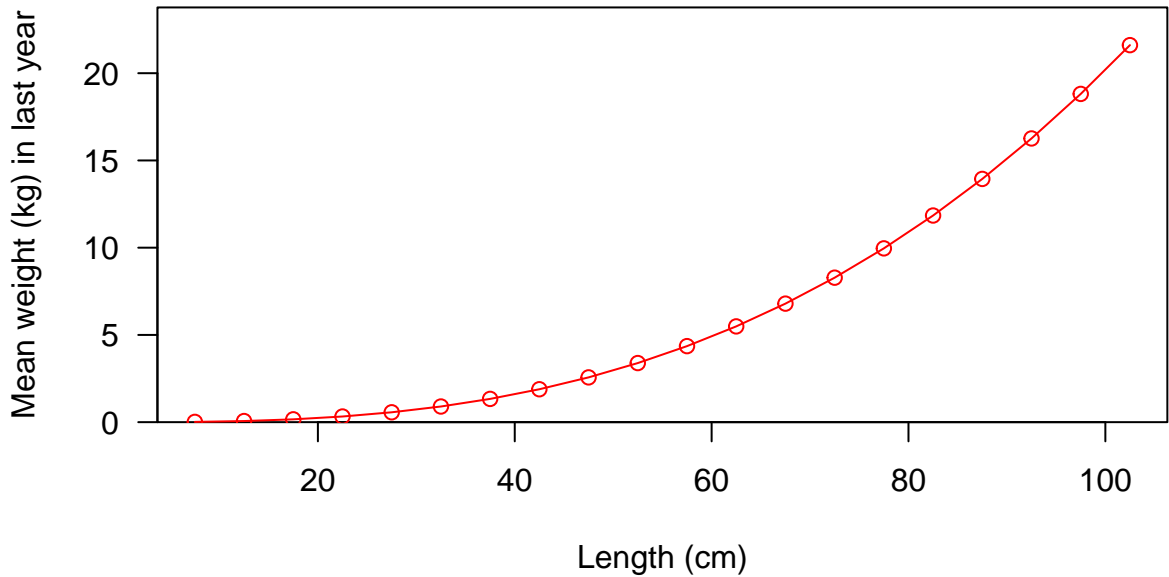


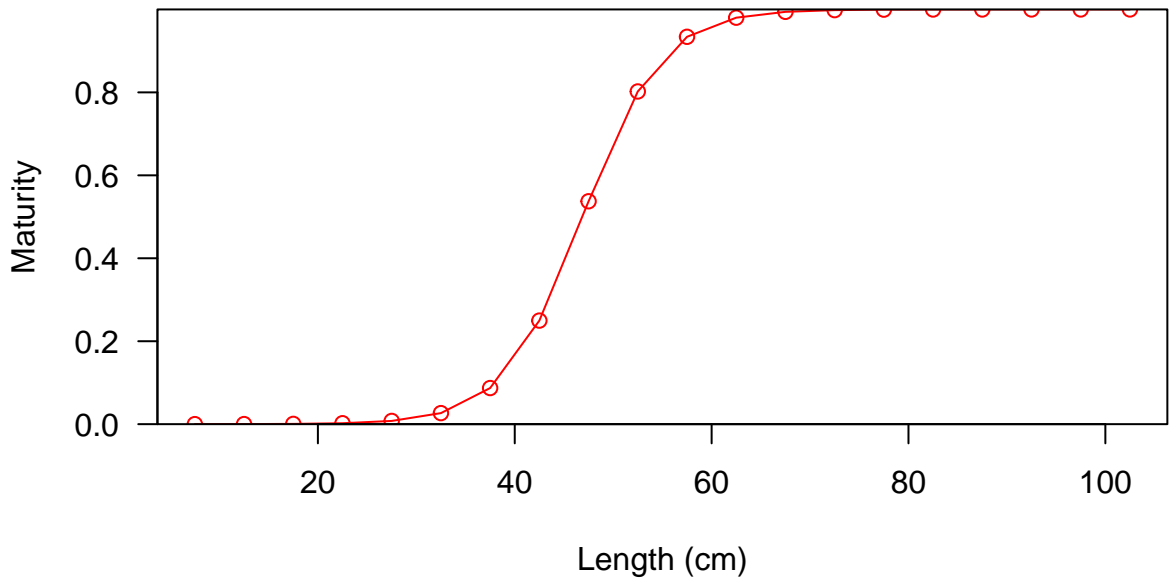


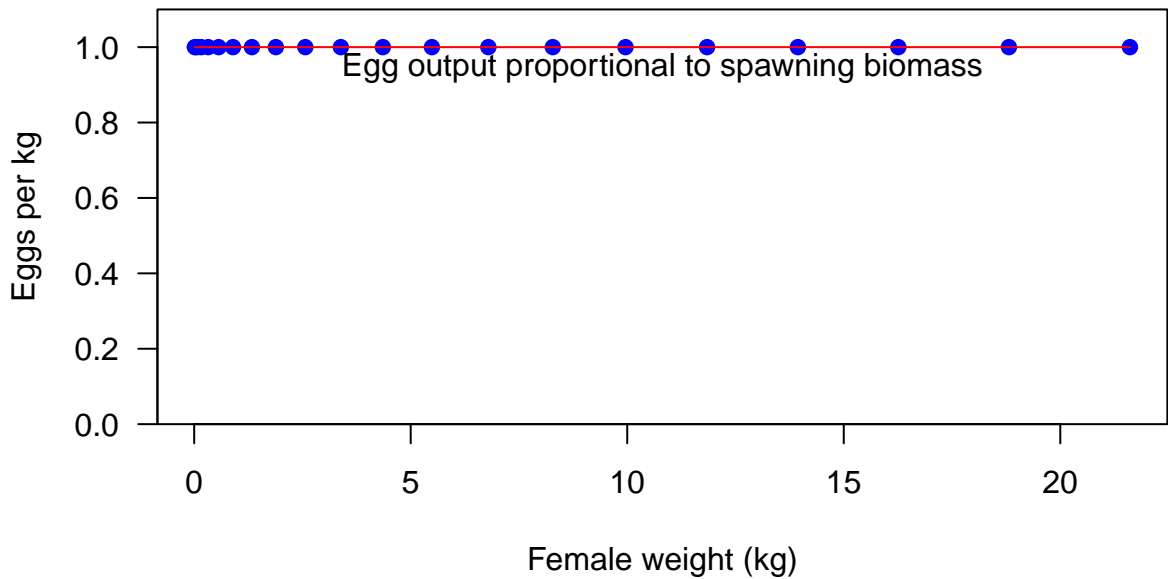




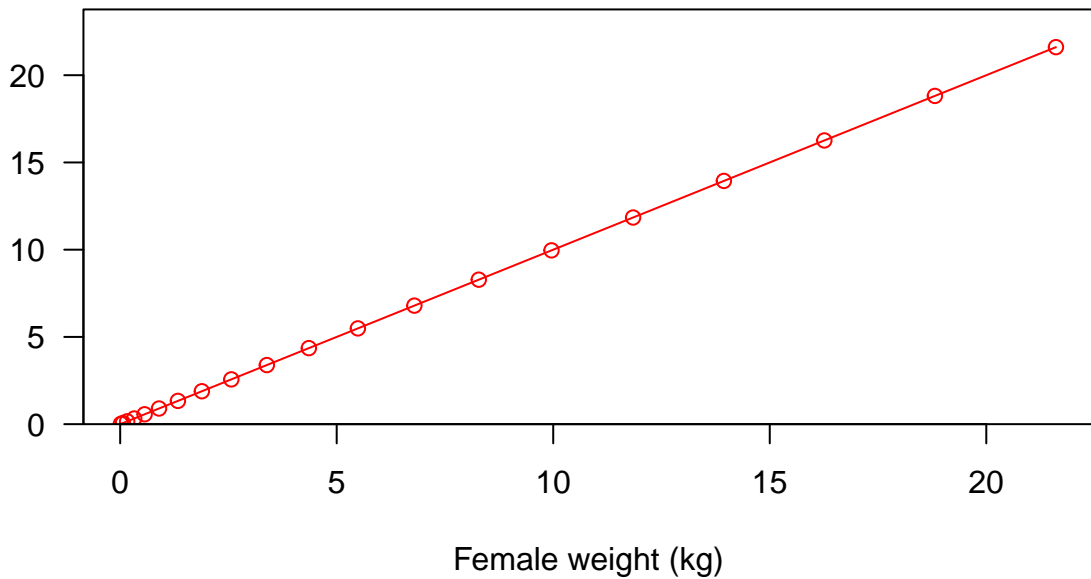




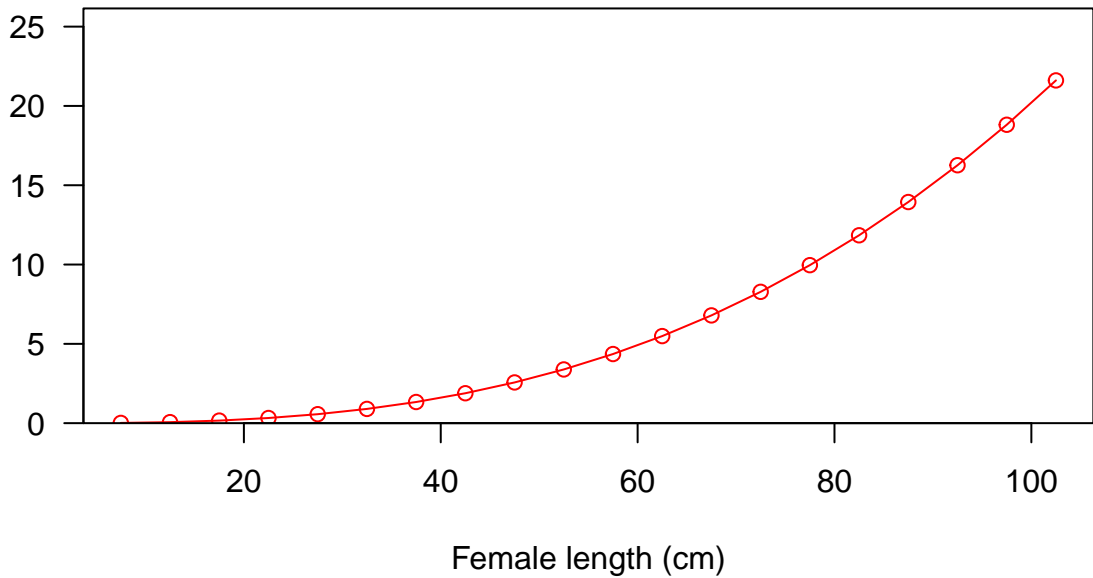




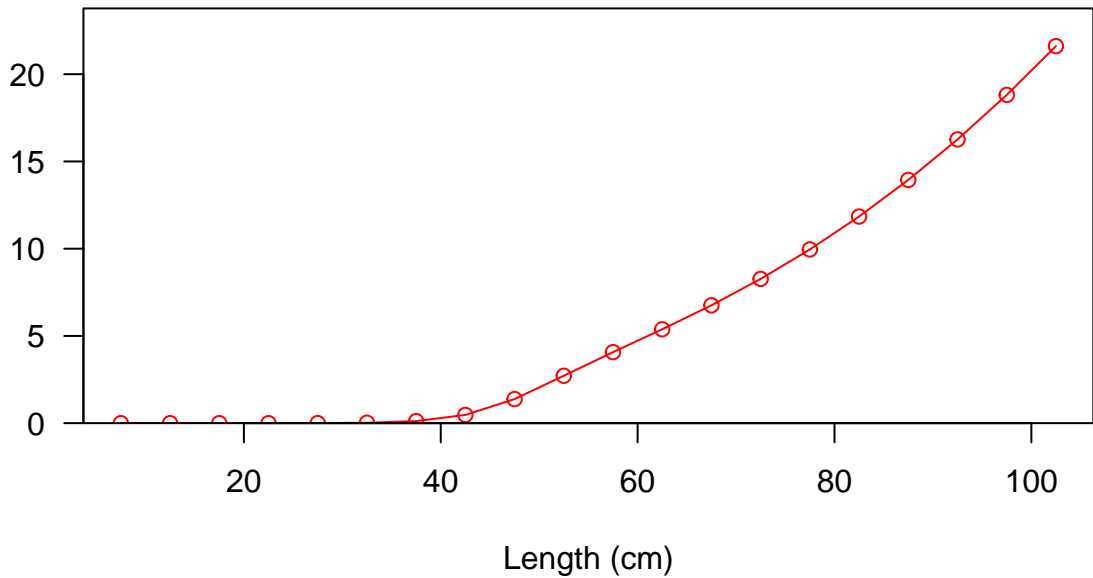
Fecundity



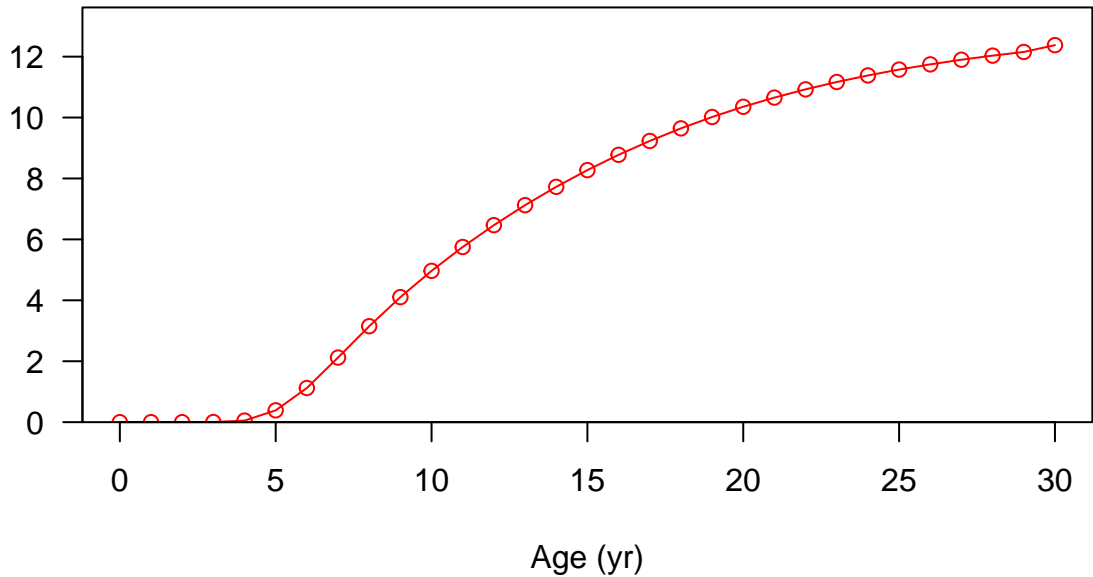
Fecundity



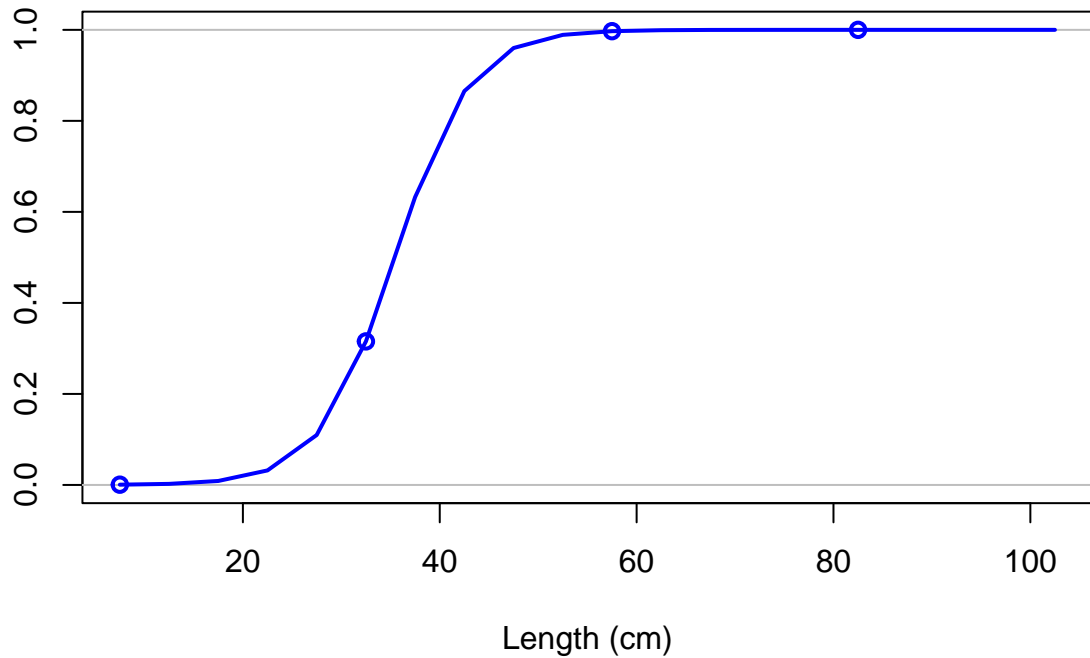
Spawning output



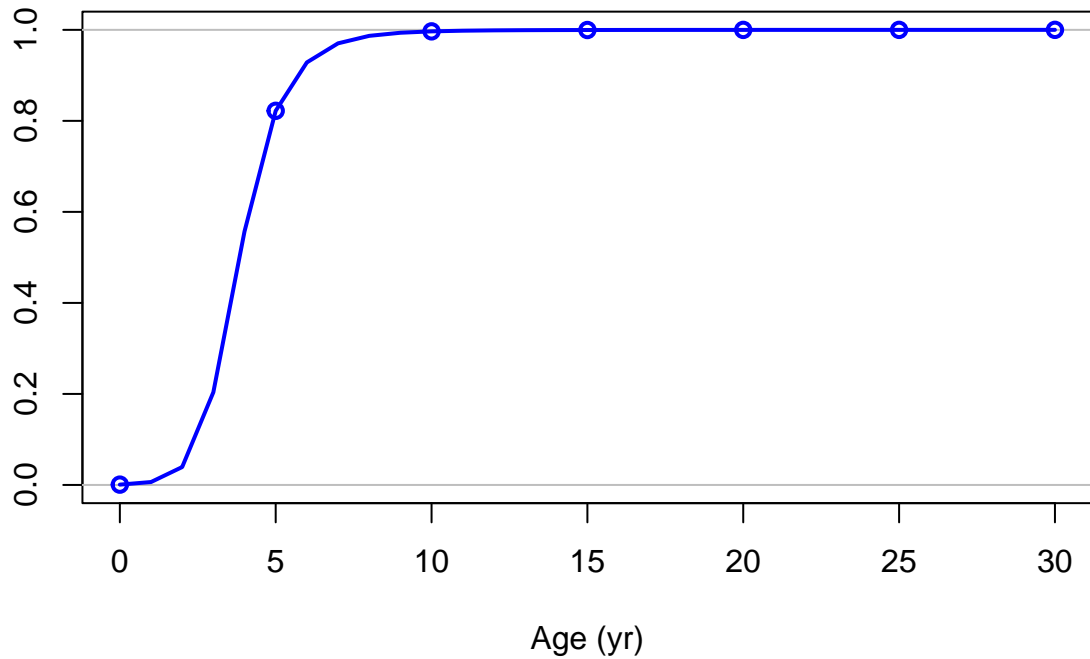
Spawning output



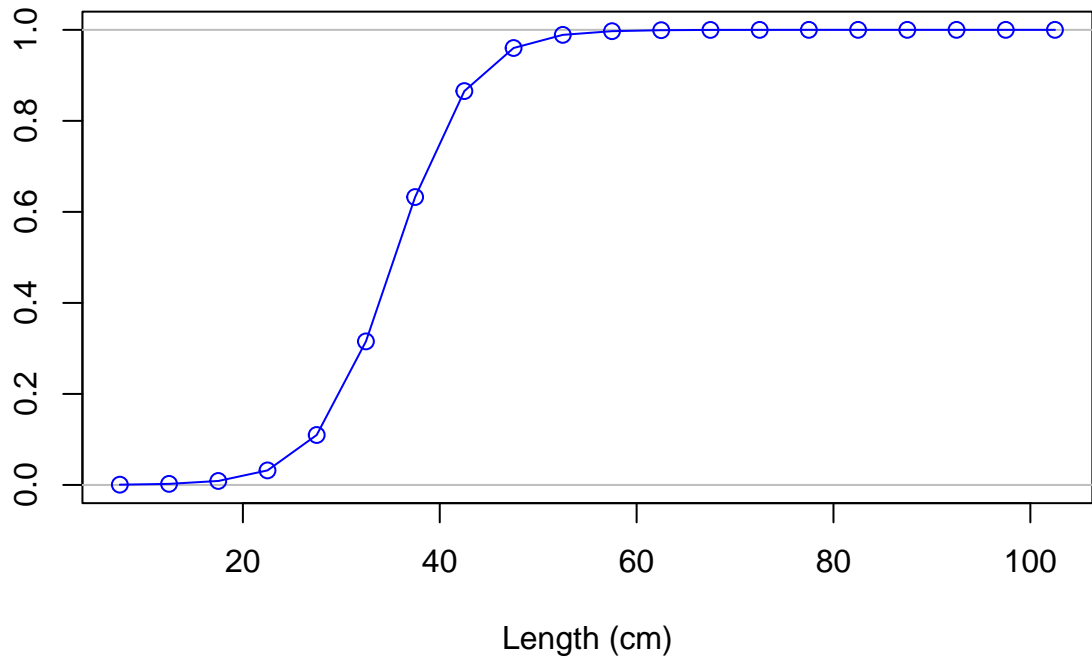
Selectivity

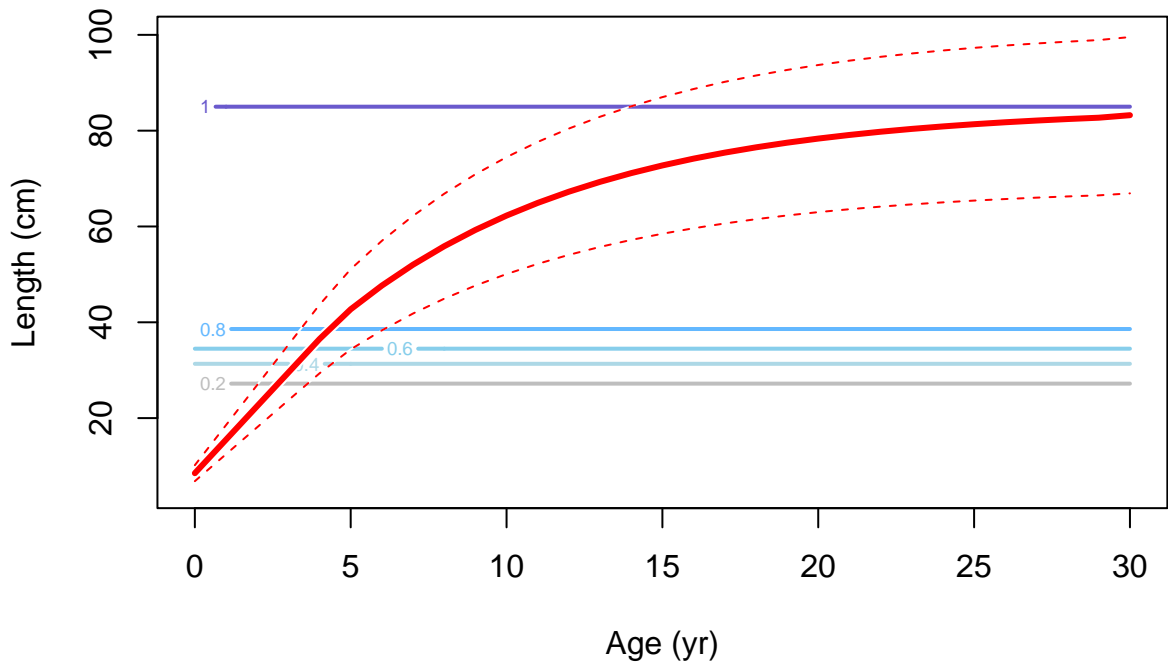


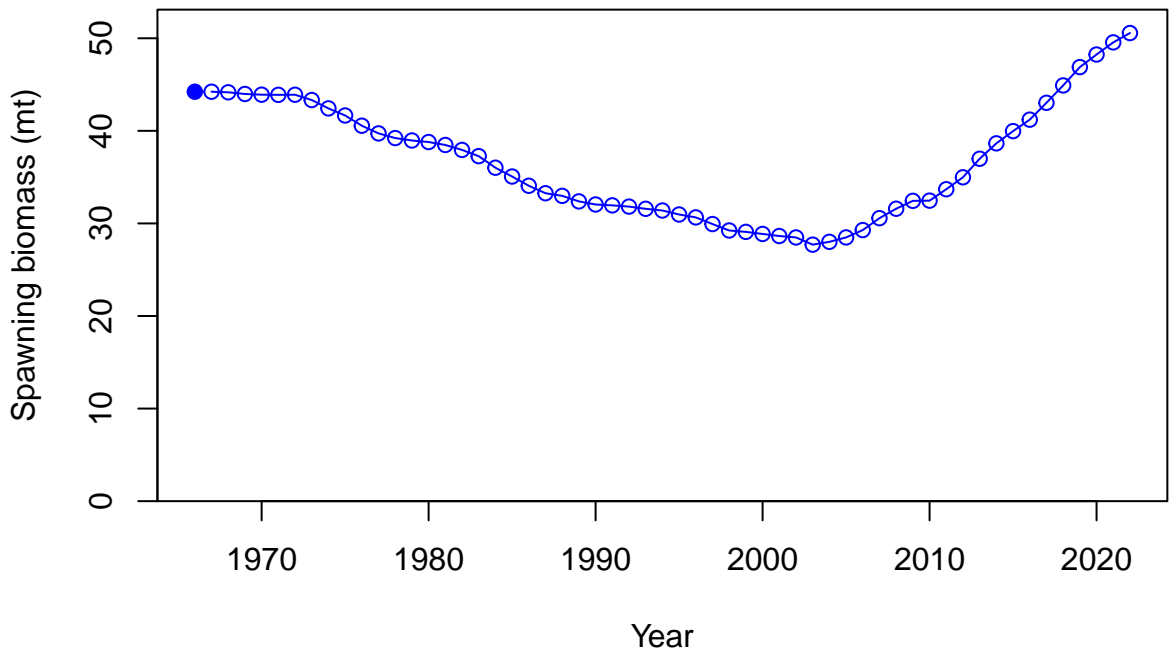
Selectivity



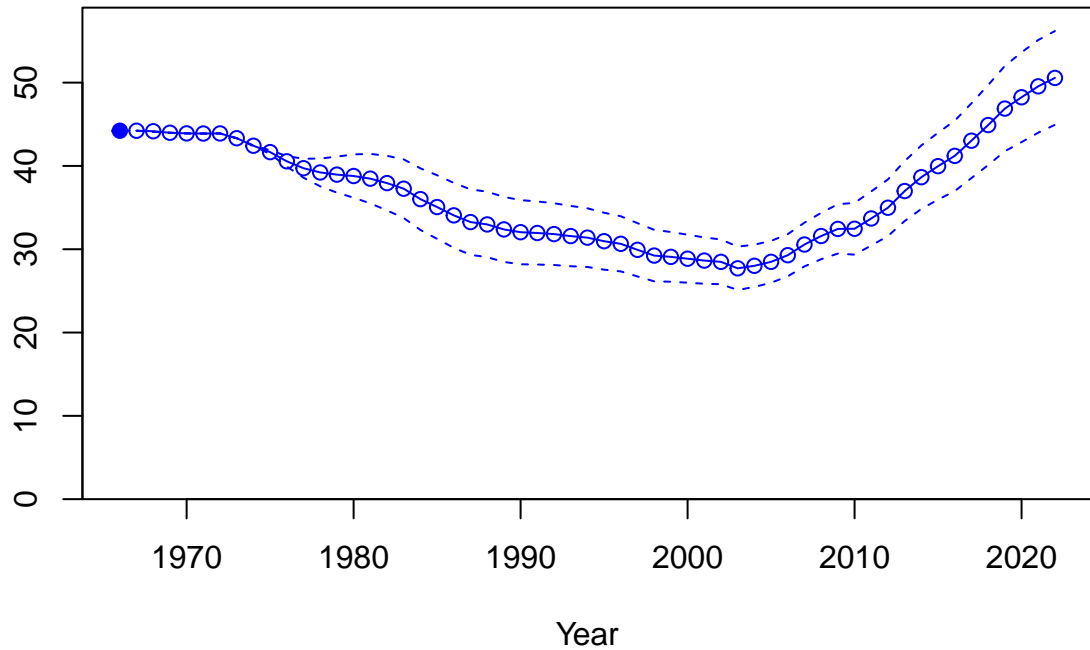
Selectivity



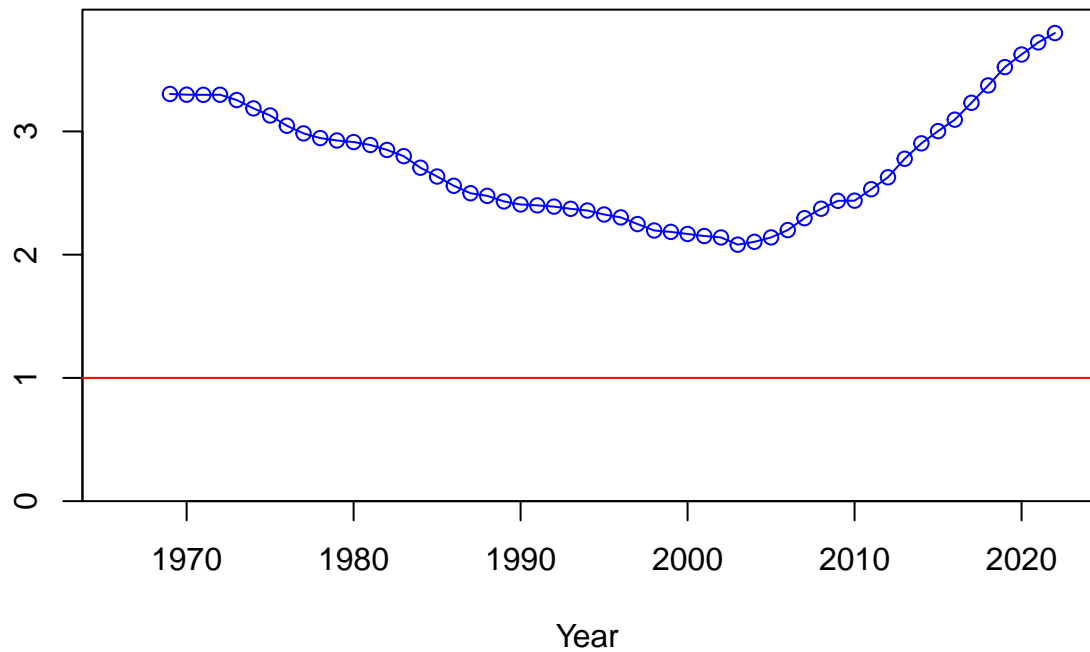




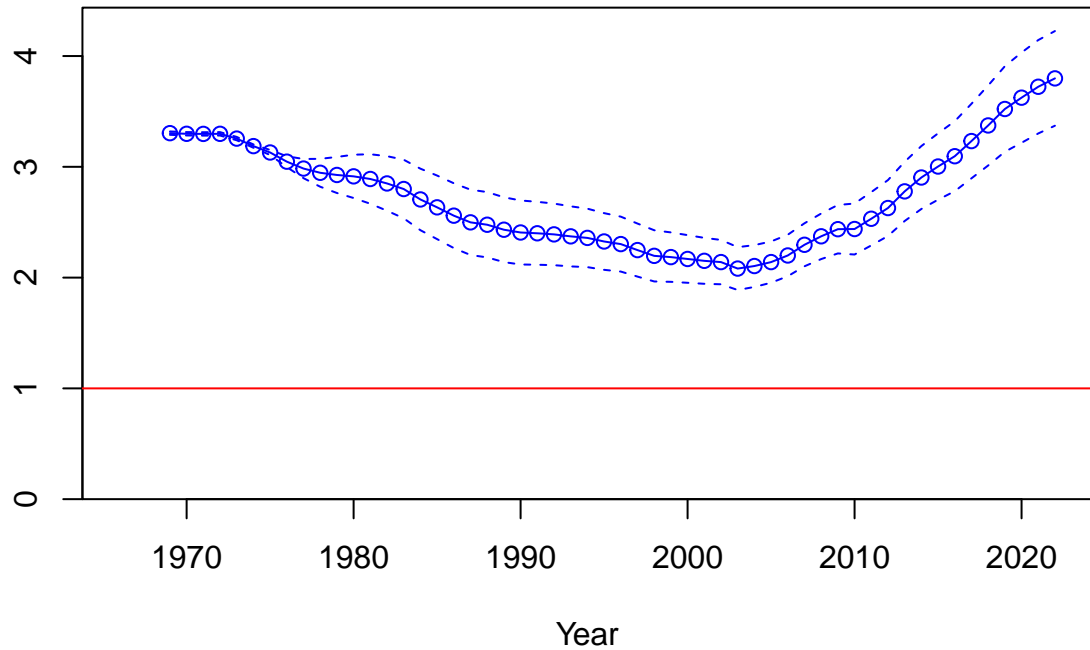
Spawning biomass (mt)

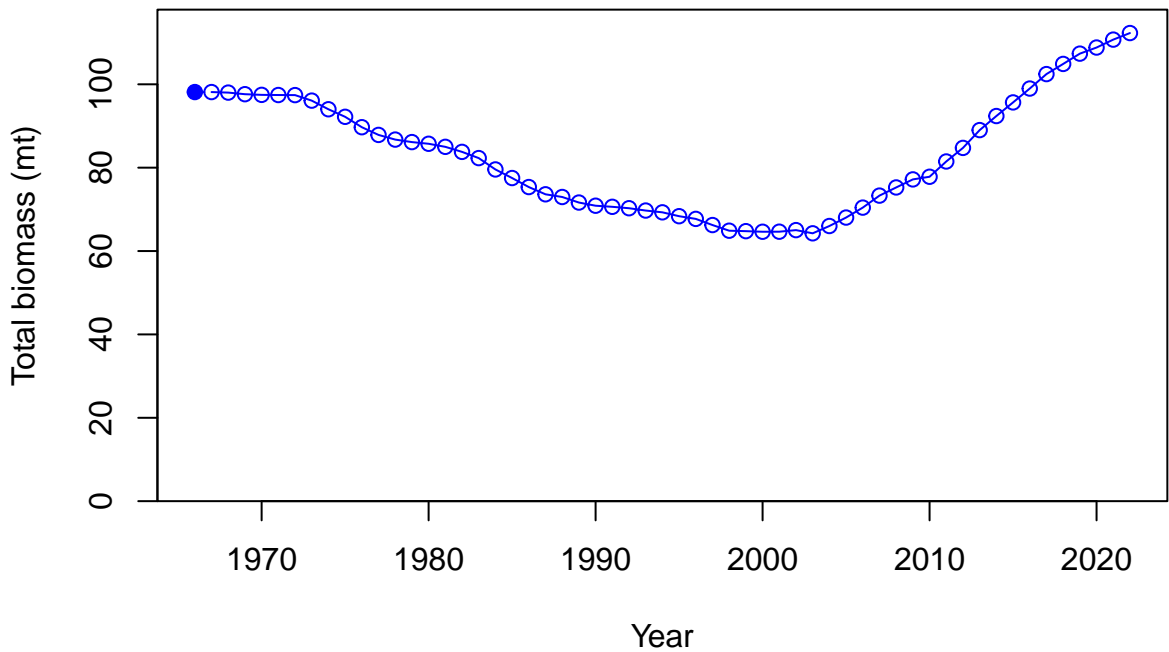


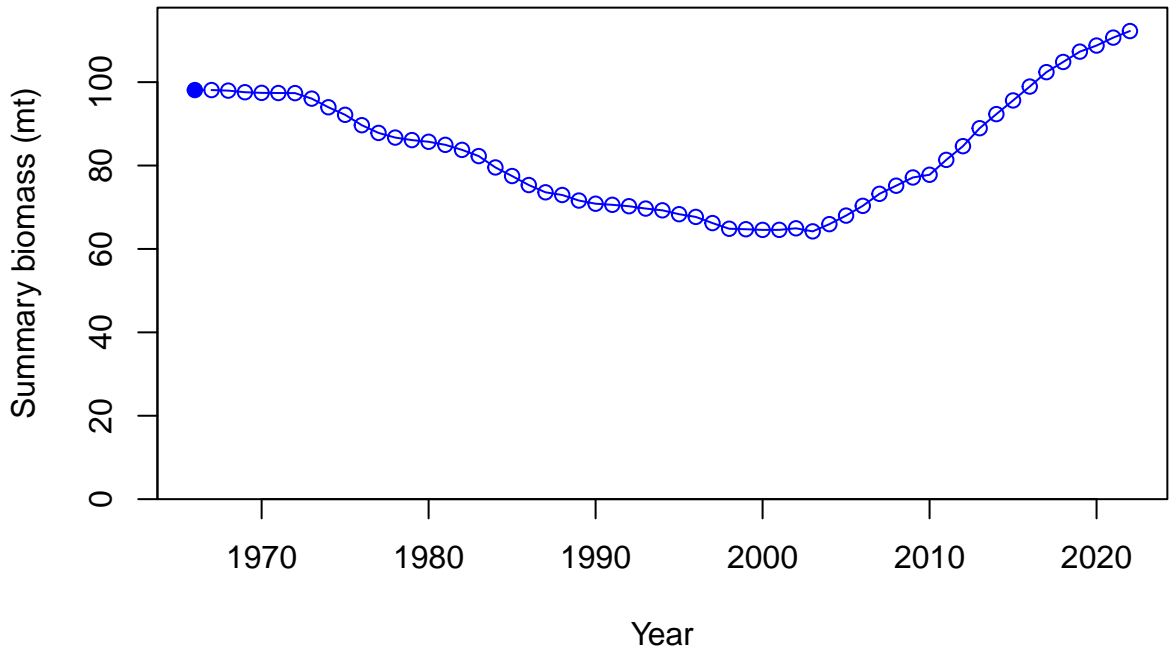
Relative spawning biomass: B/B_{MSY}



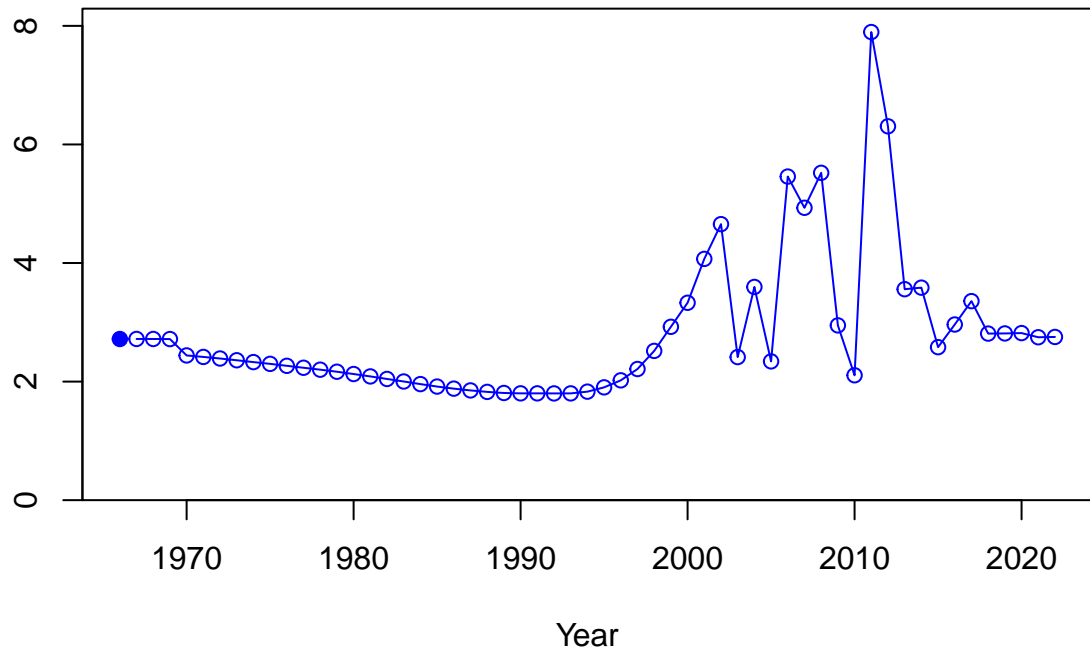
Relative spawning biomass: B/B_{MSY}

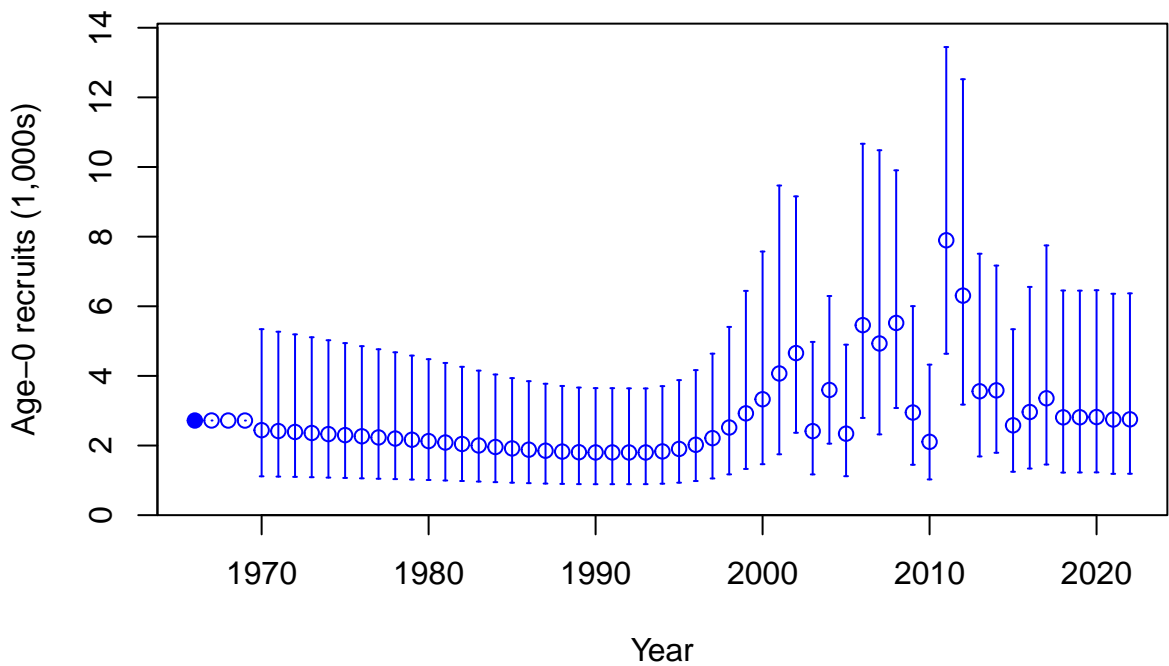




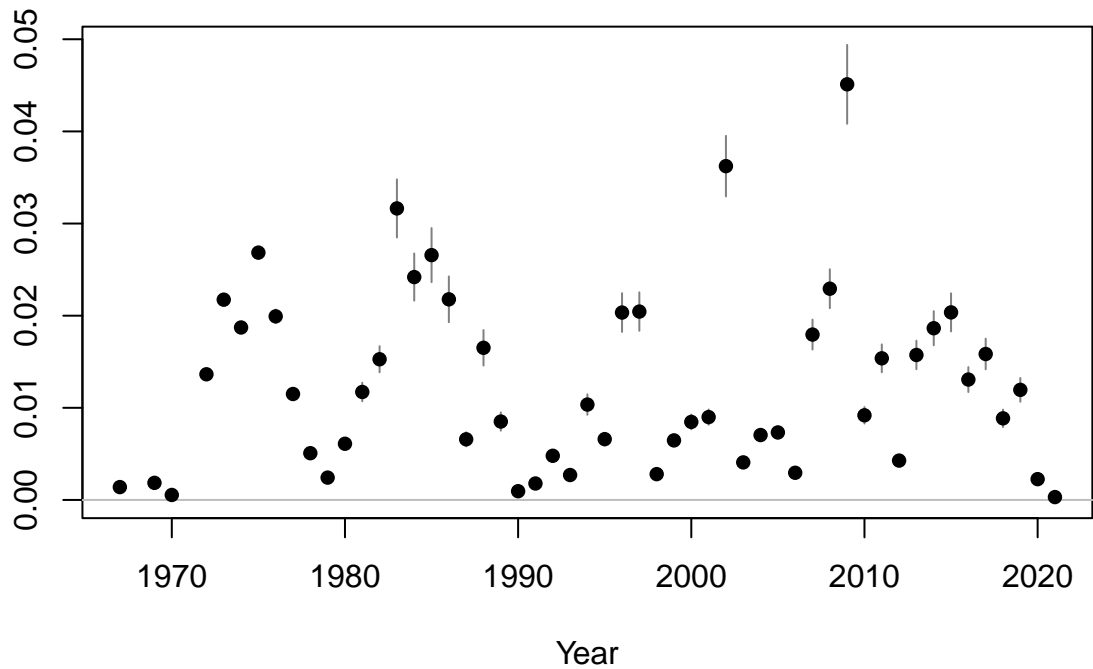


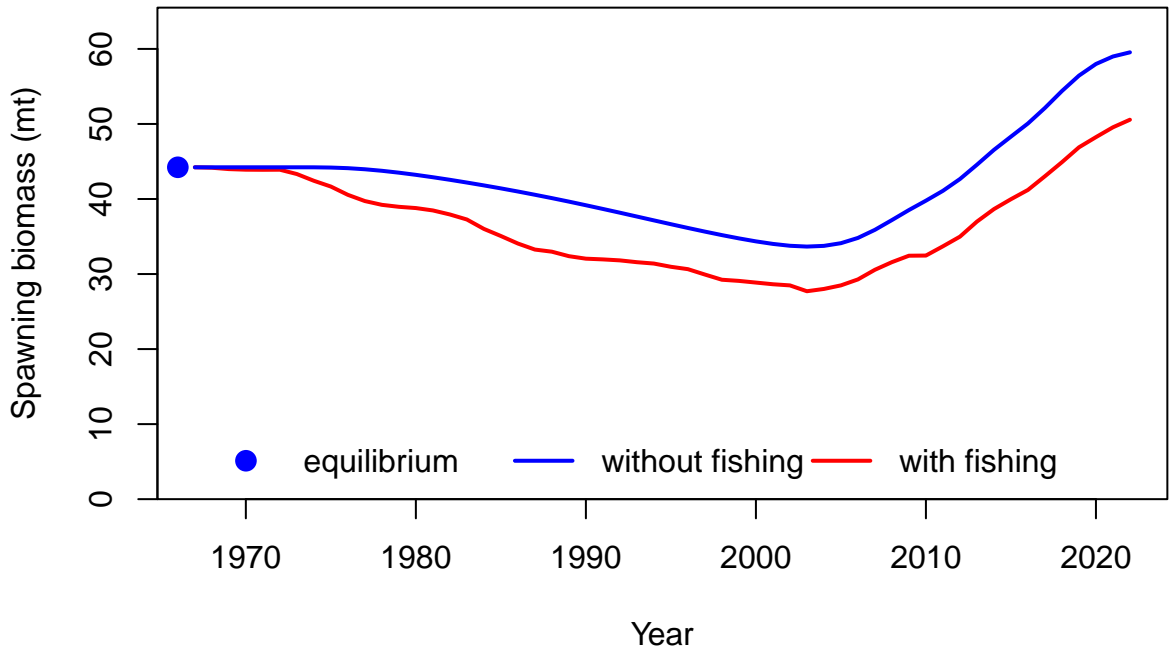
Age-0 recruits (1,000s)





Summary Fishing Mortality





Log recruitment deviation

1.0
0.5
0.0

1970

1980

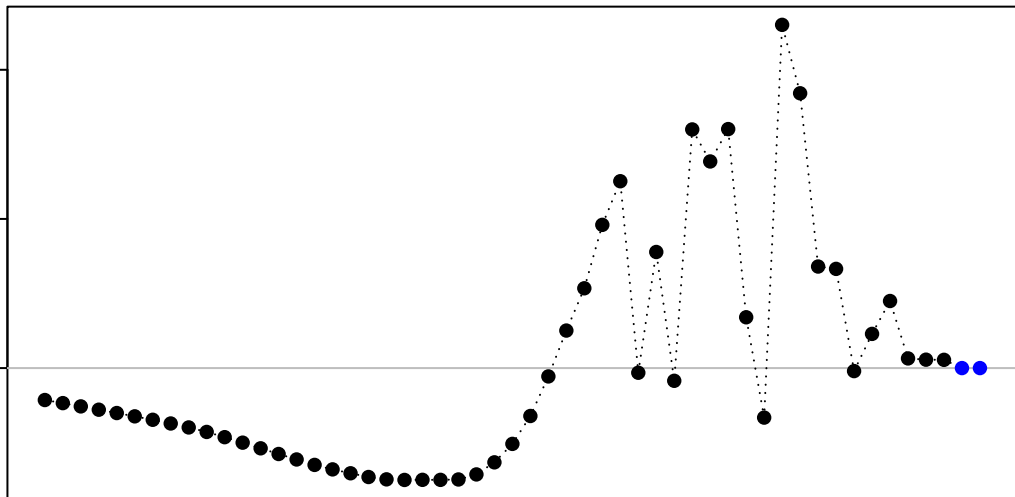
1990

2000

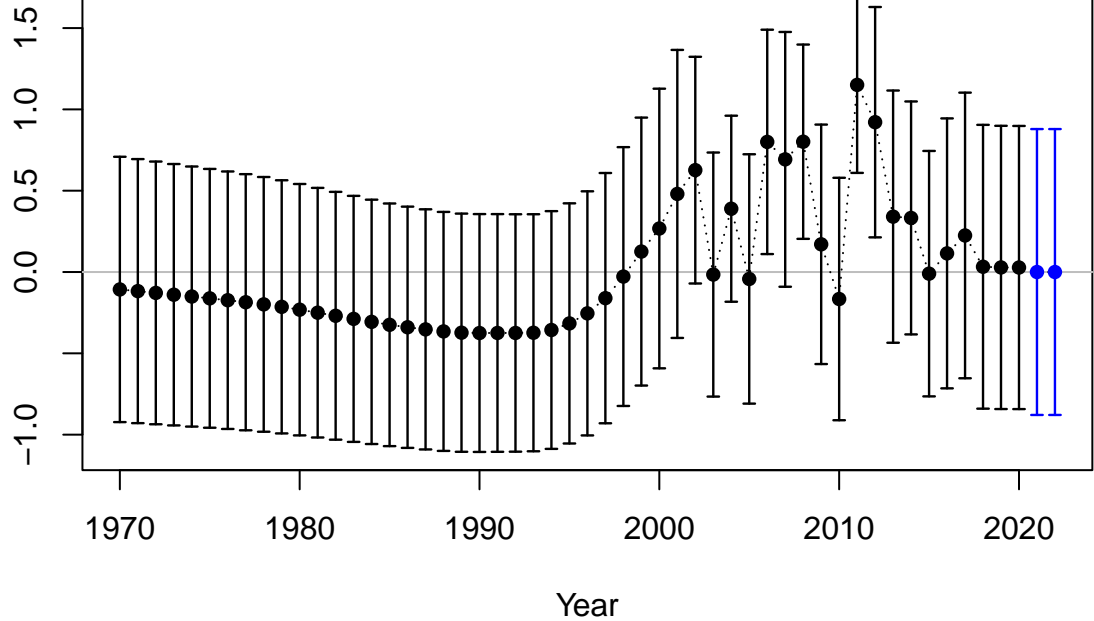
2010

2020

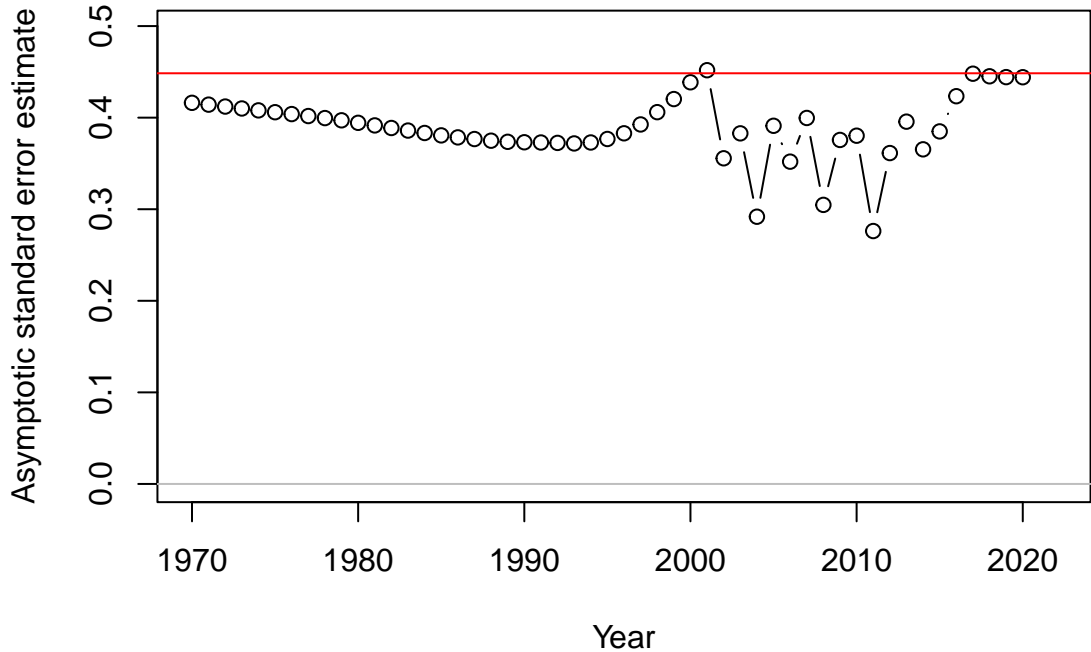
Year

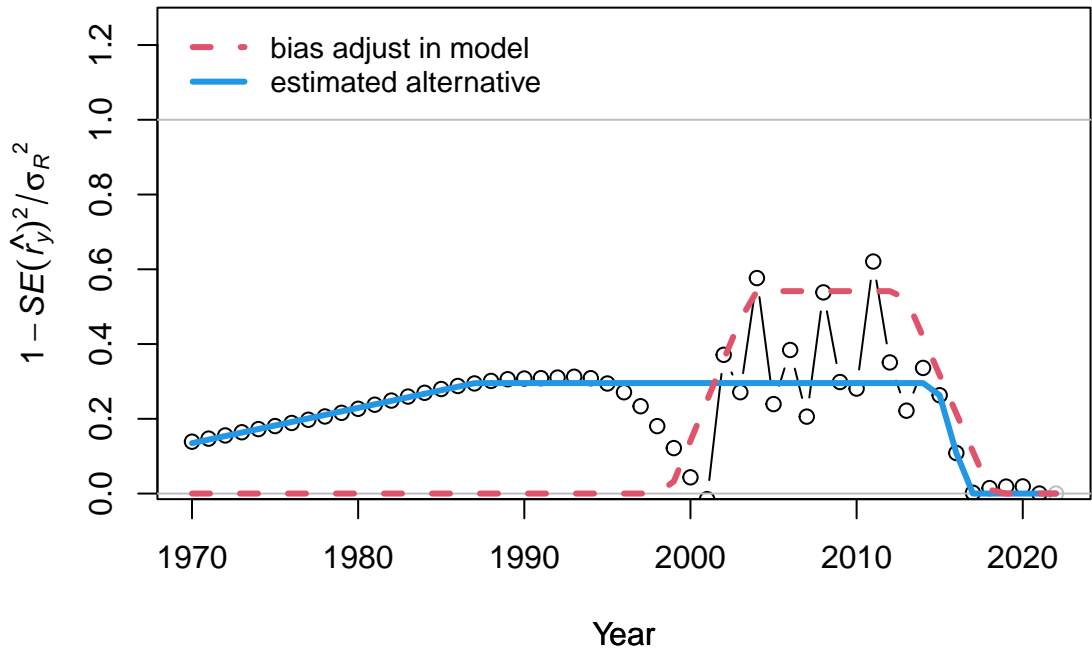


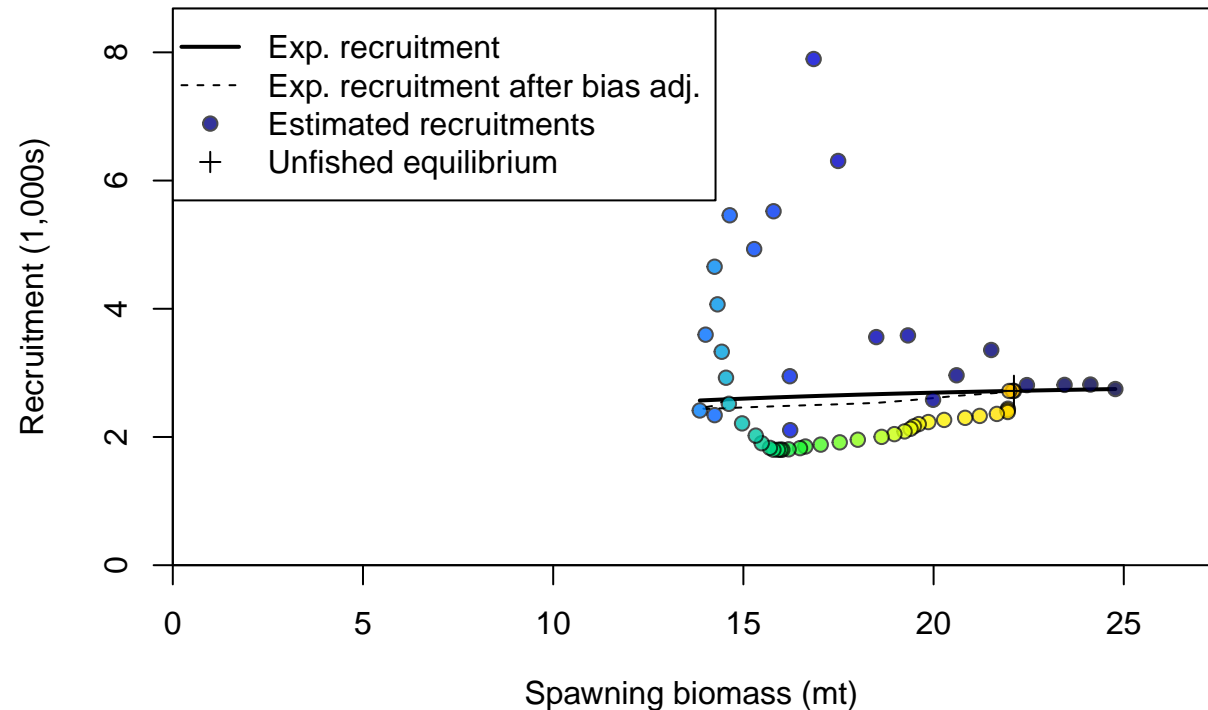
Log recruitment deviation

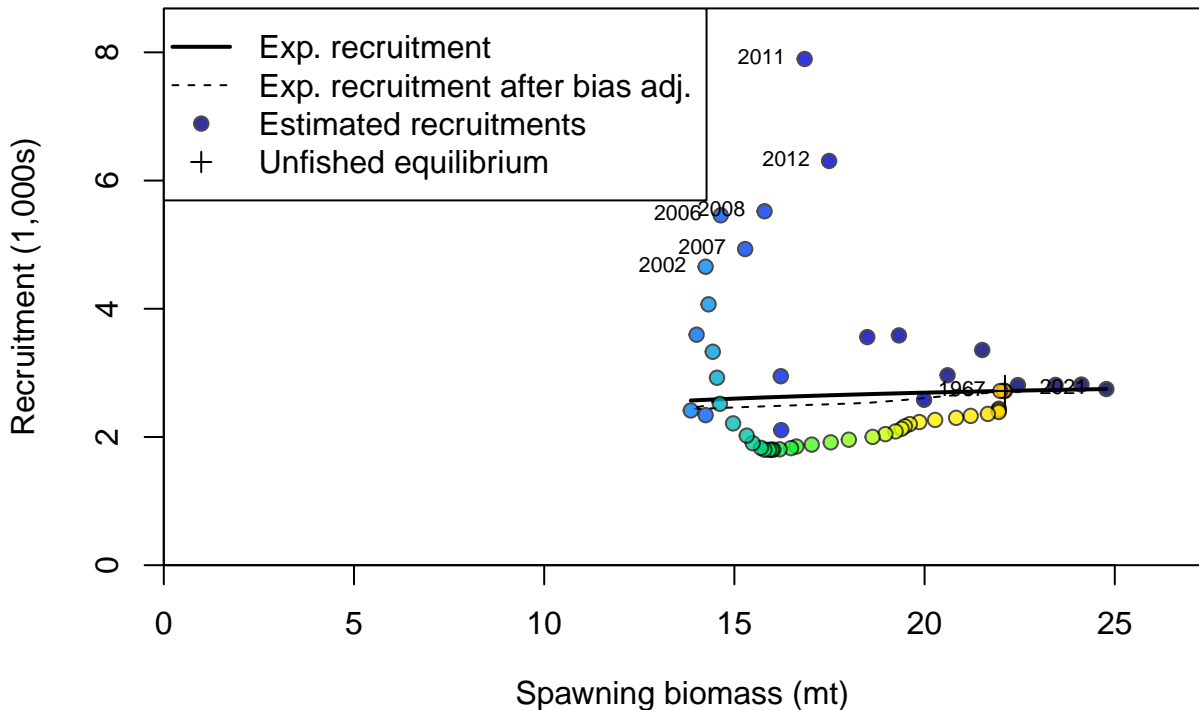


Recruitment deviation variance

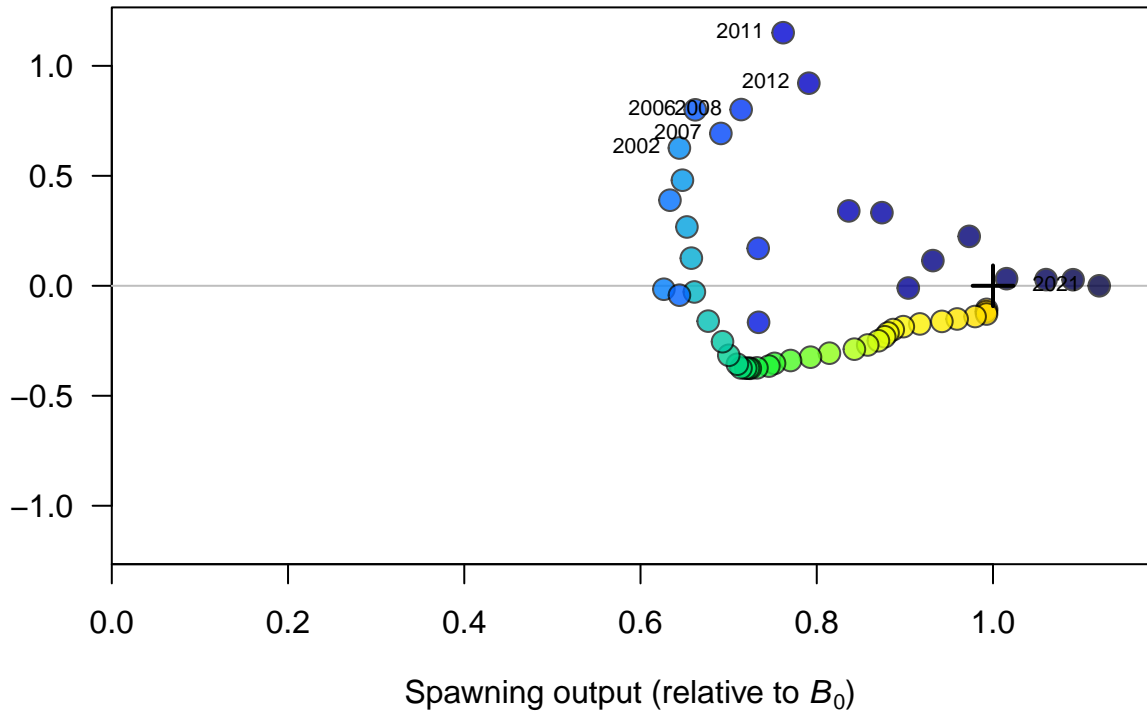


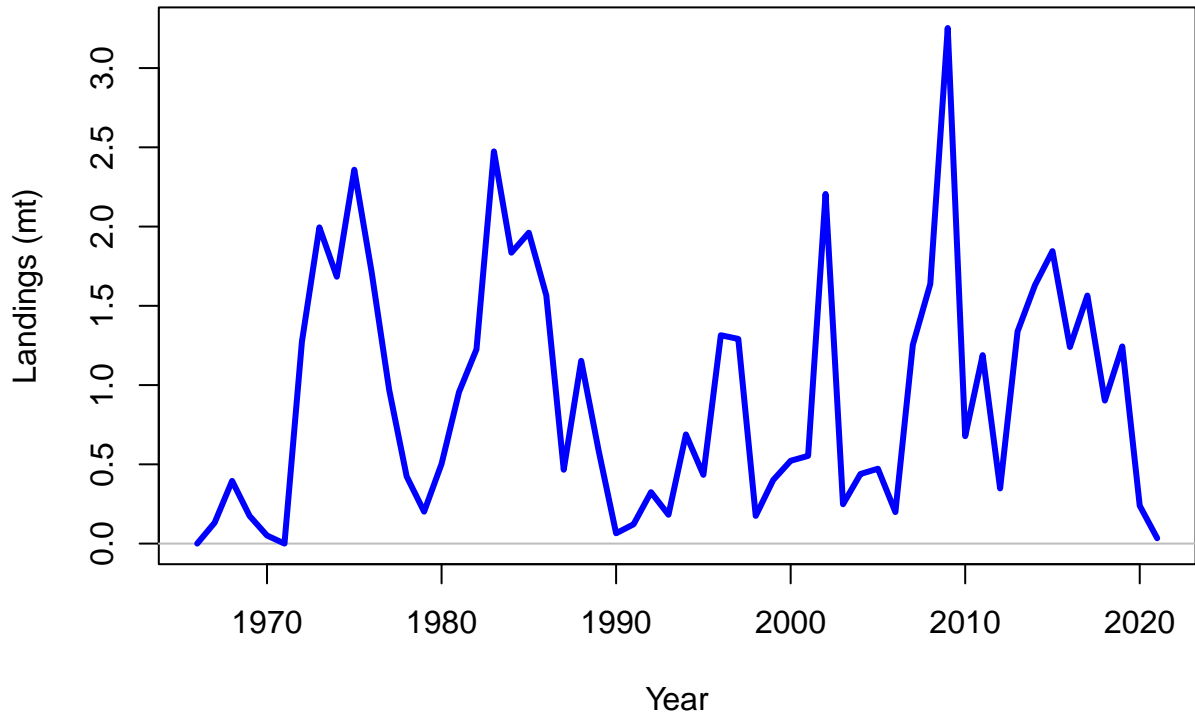


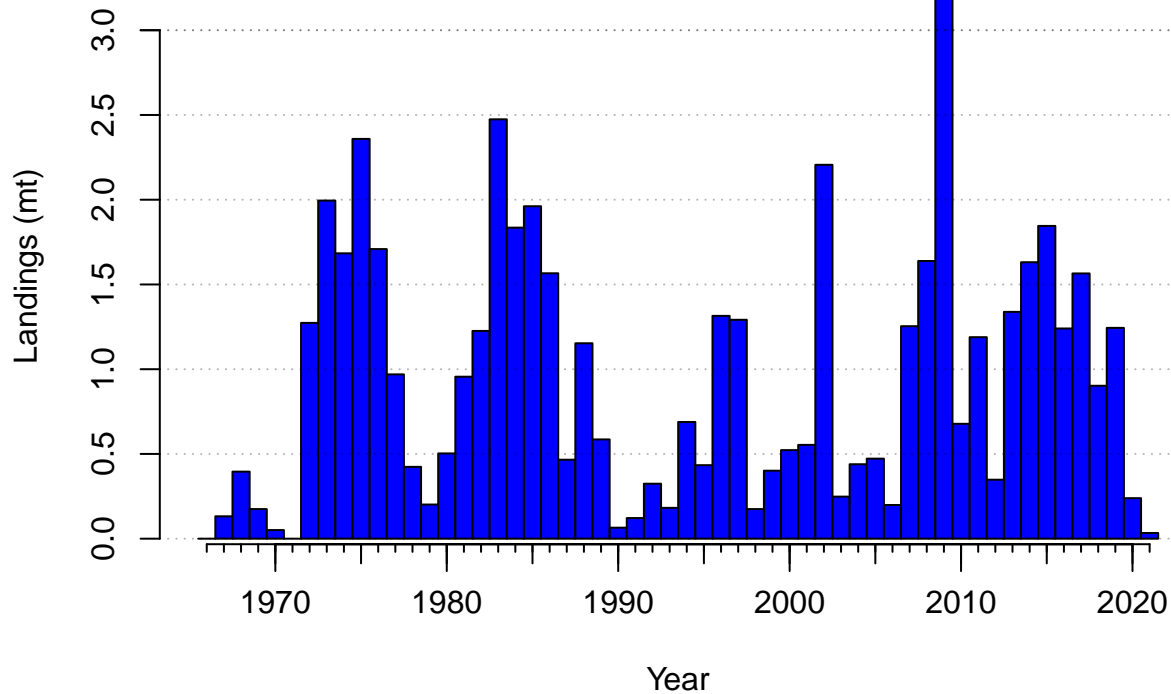


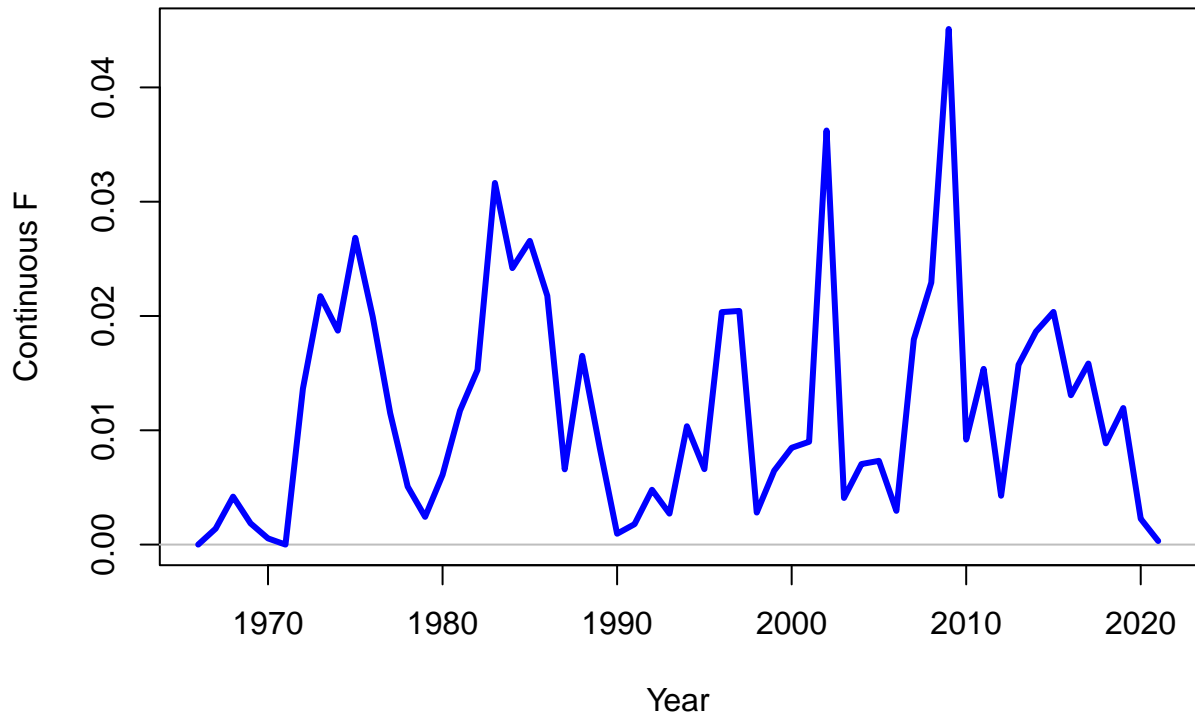


Log recruitment deviation

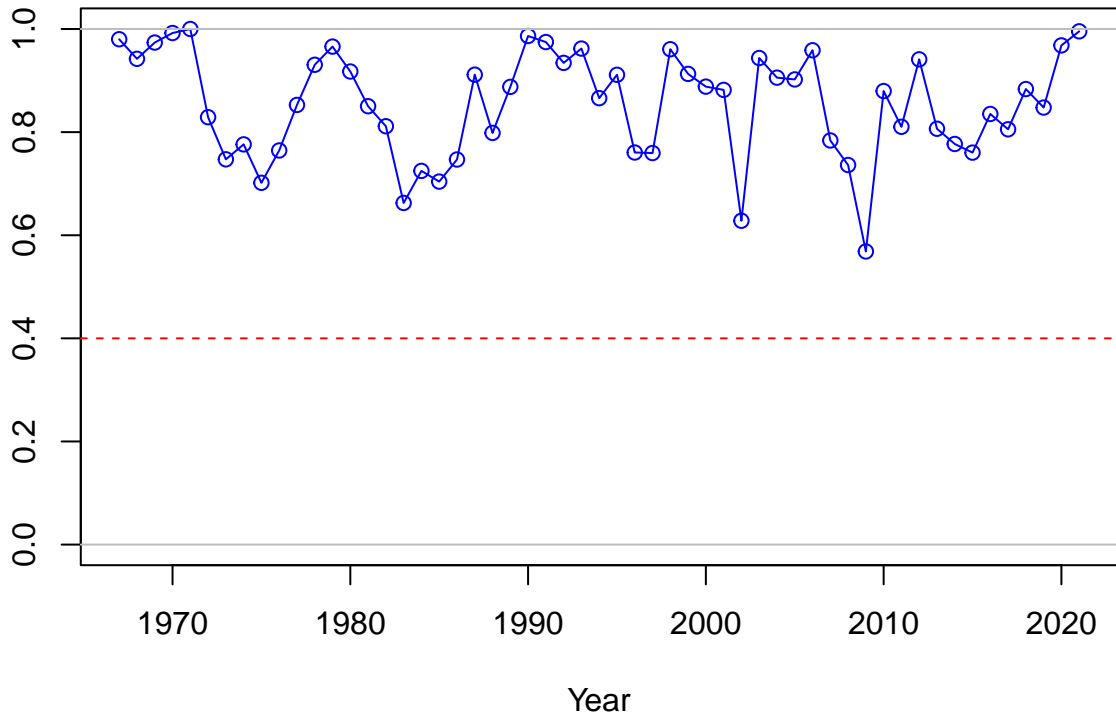




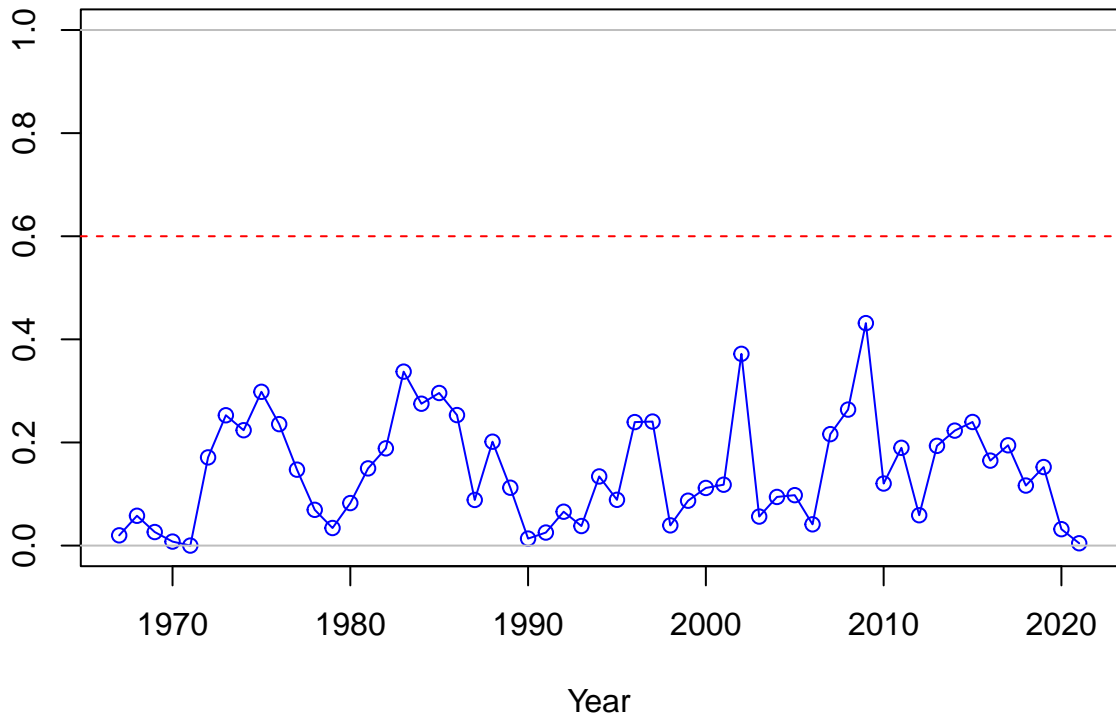




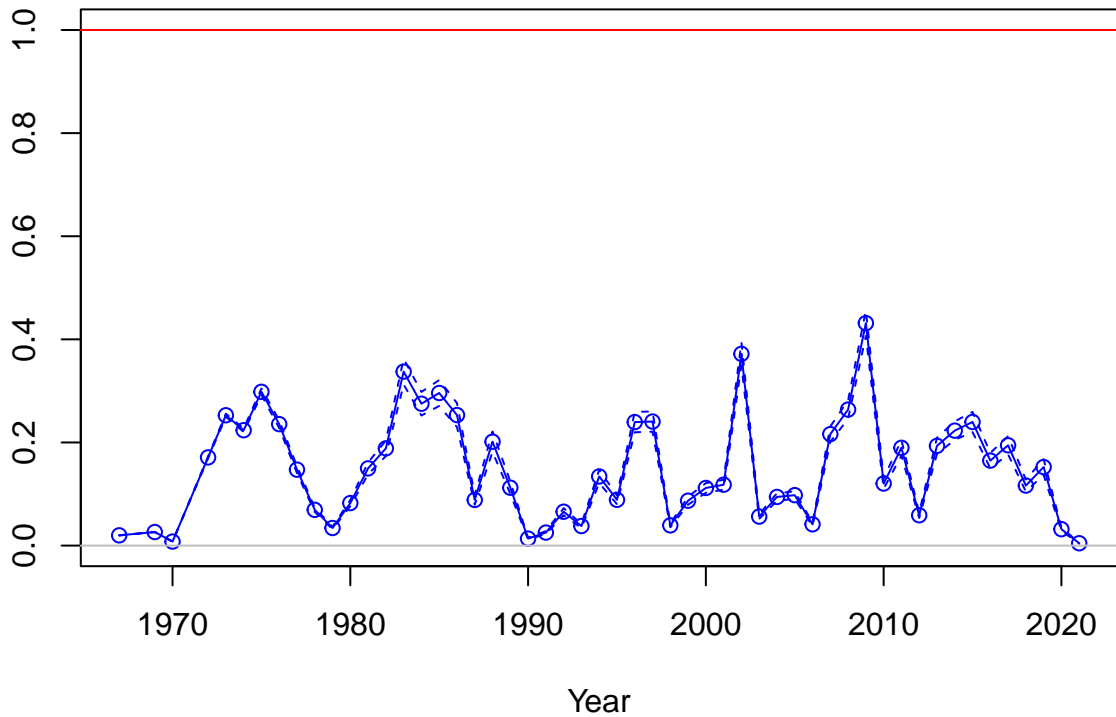
SPR



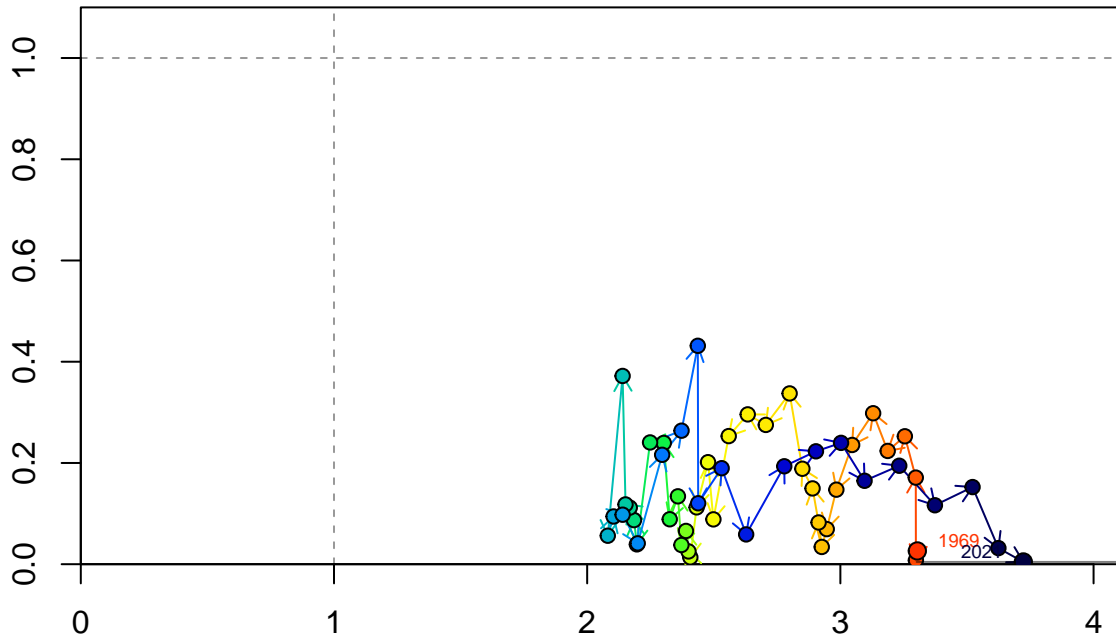
1-SPR



Fishing intensity: 1-SPR

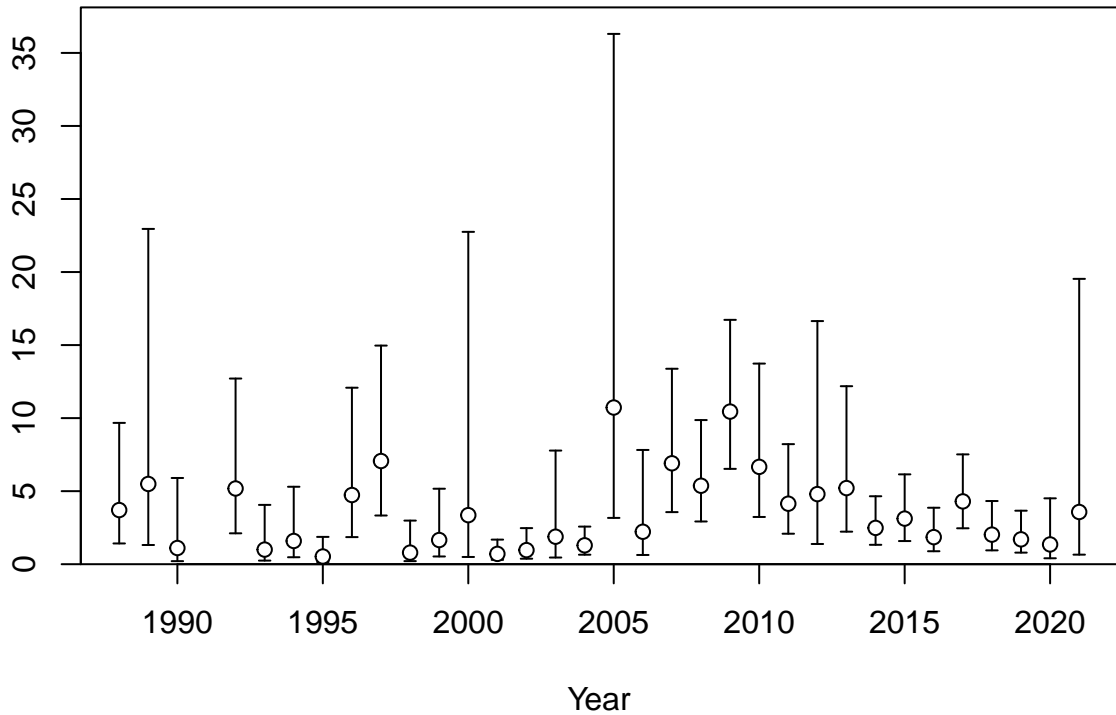


Fishing intensity: 1-SPR

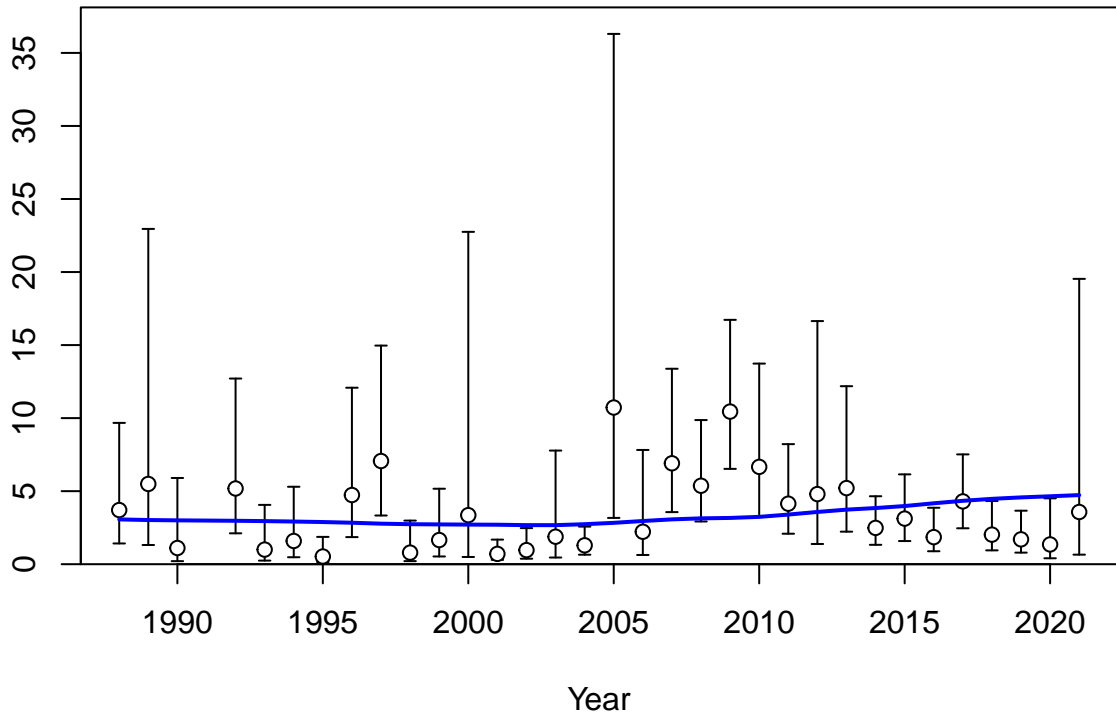


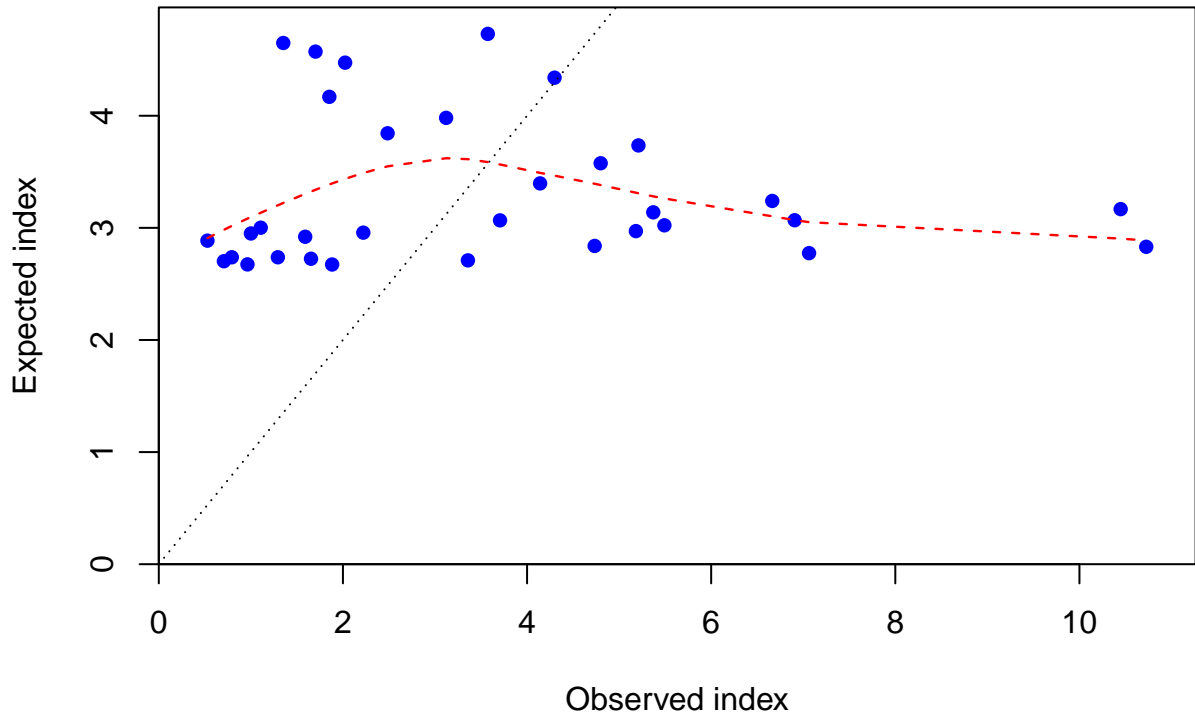
Relative spawning output: B/B_{MSY}

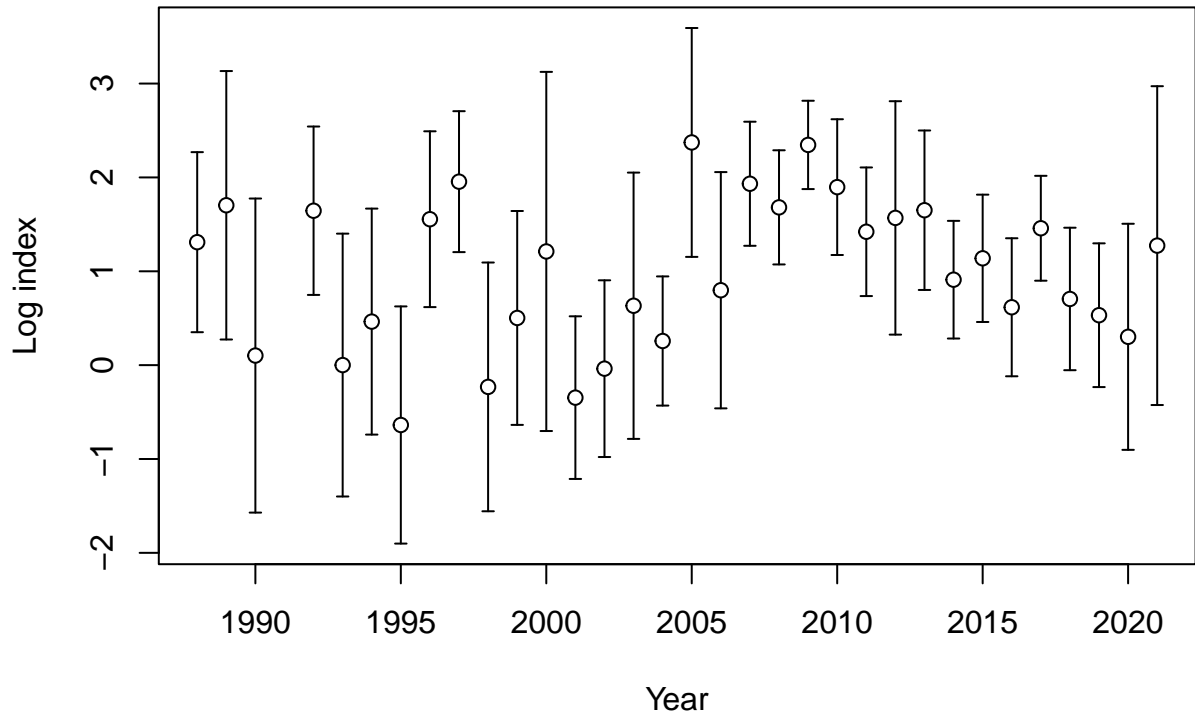
Index

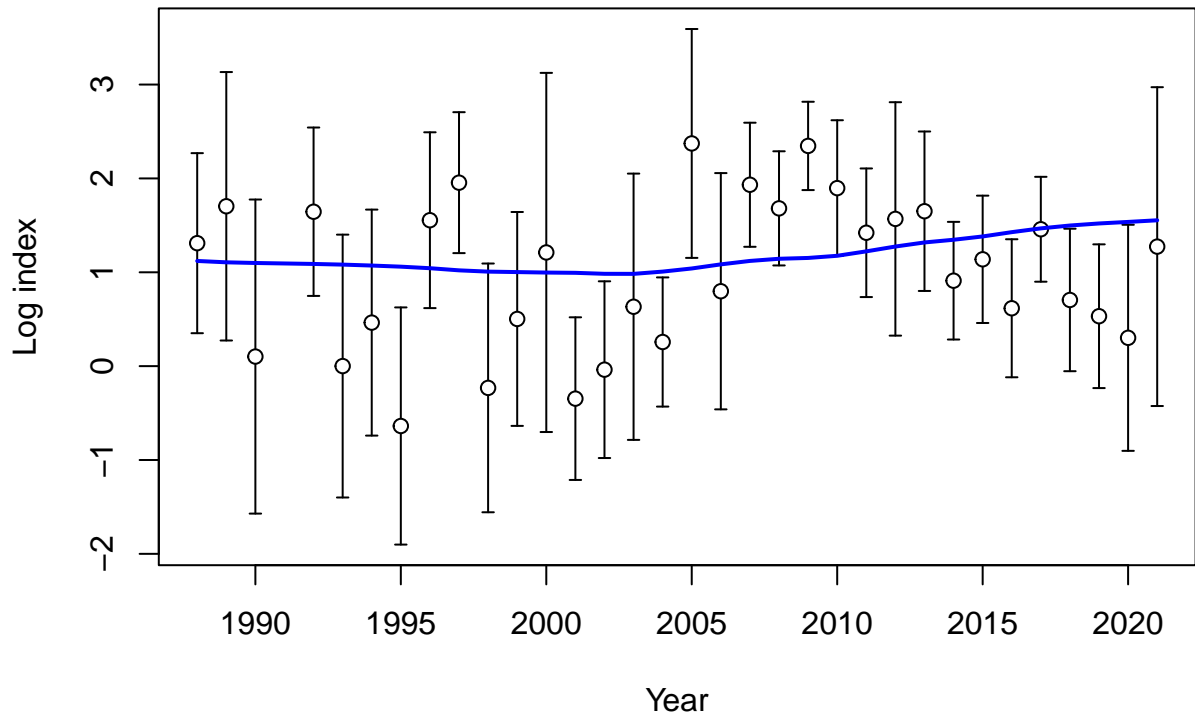


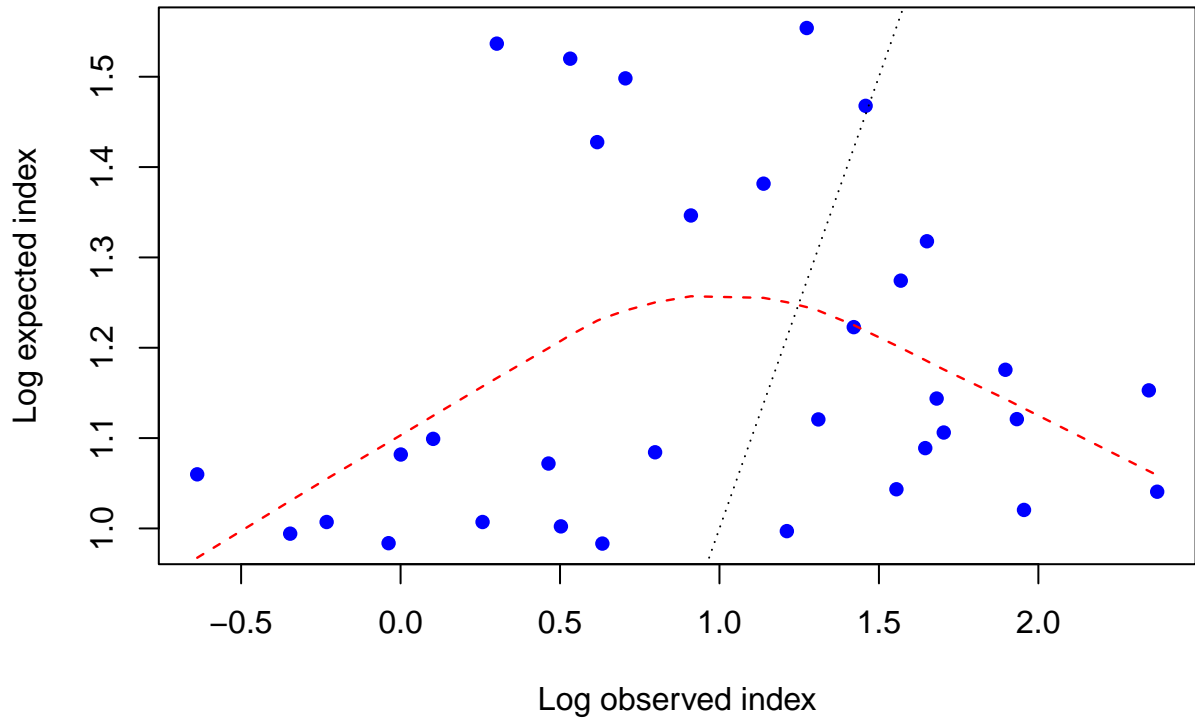
Index

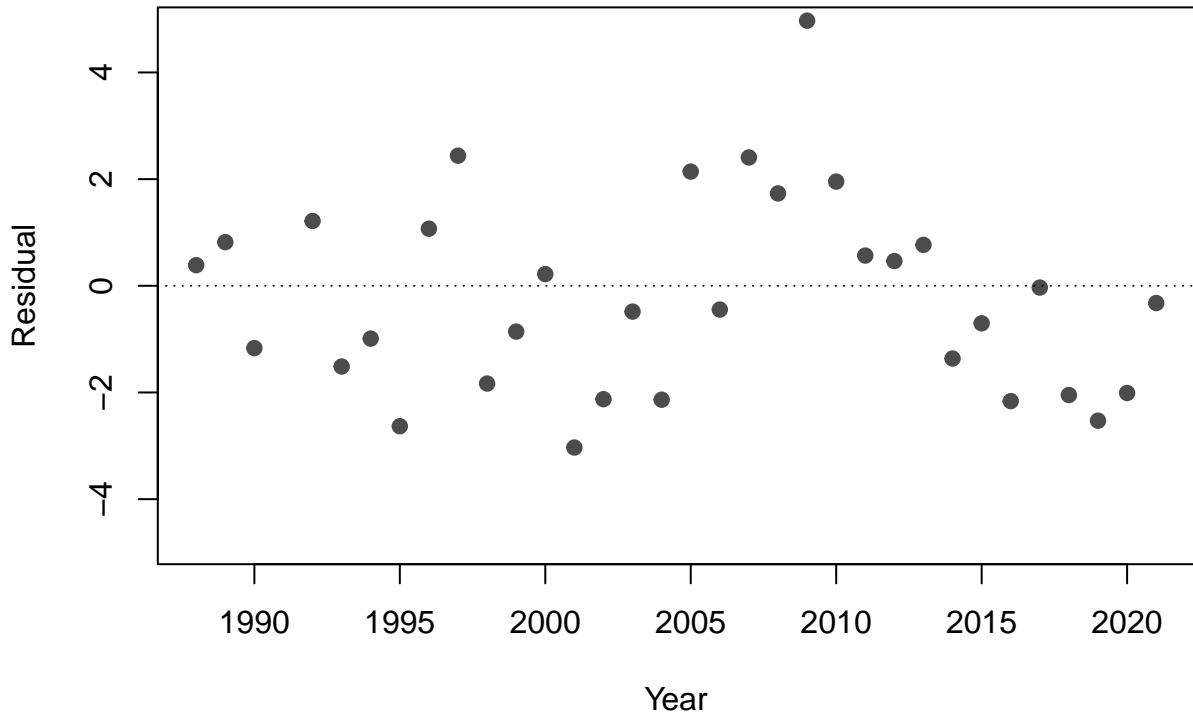


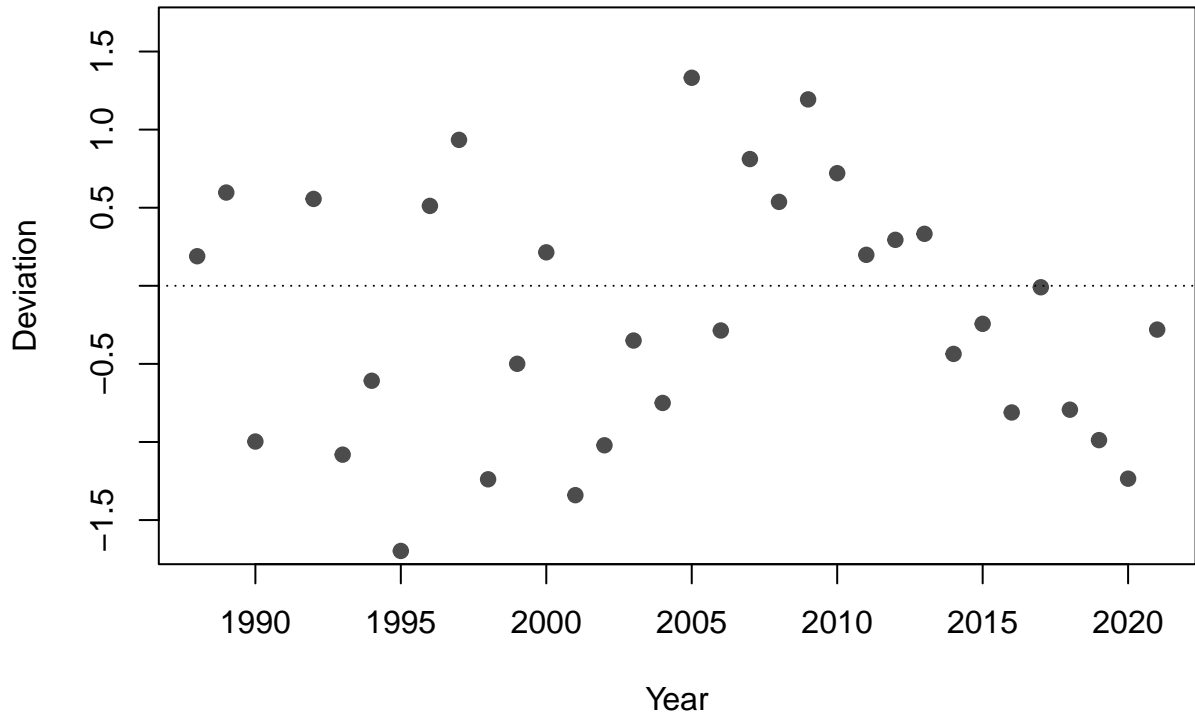


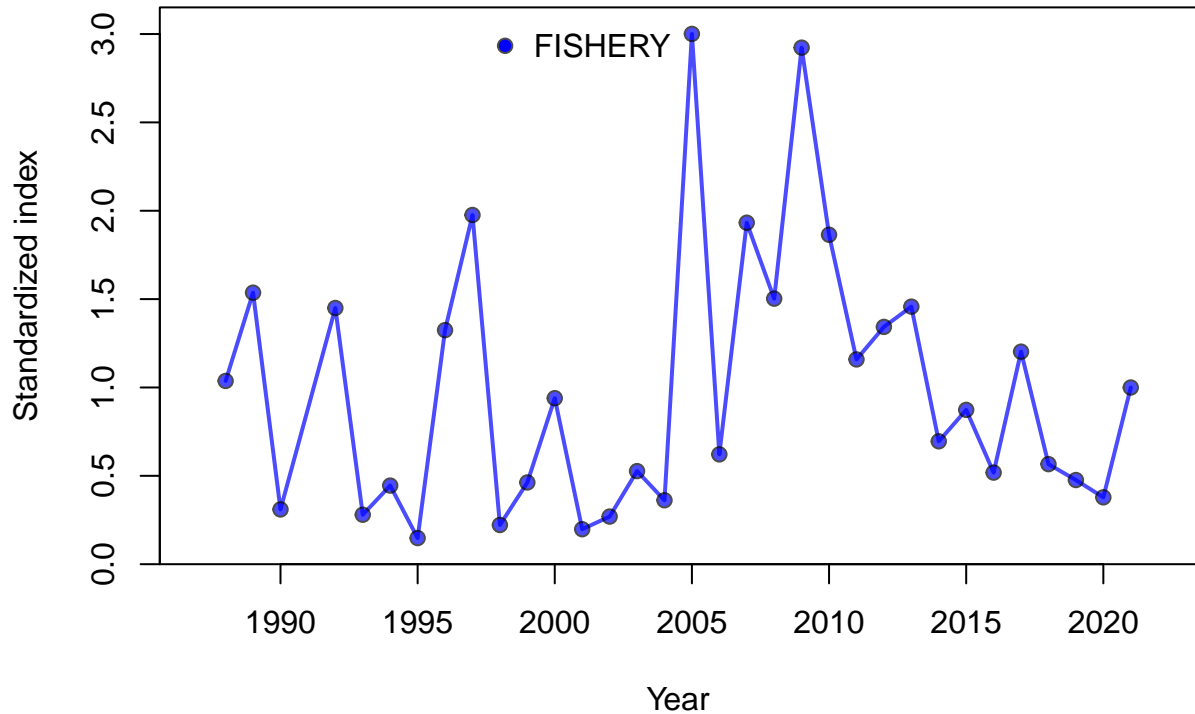


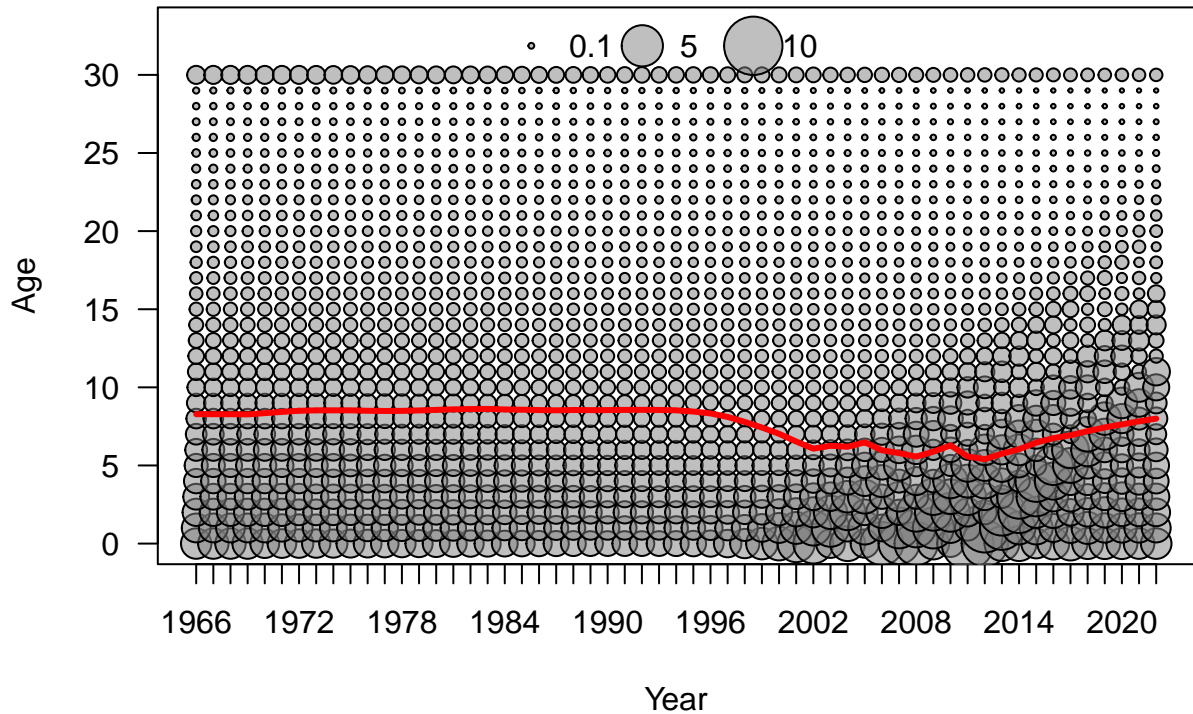


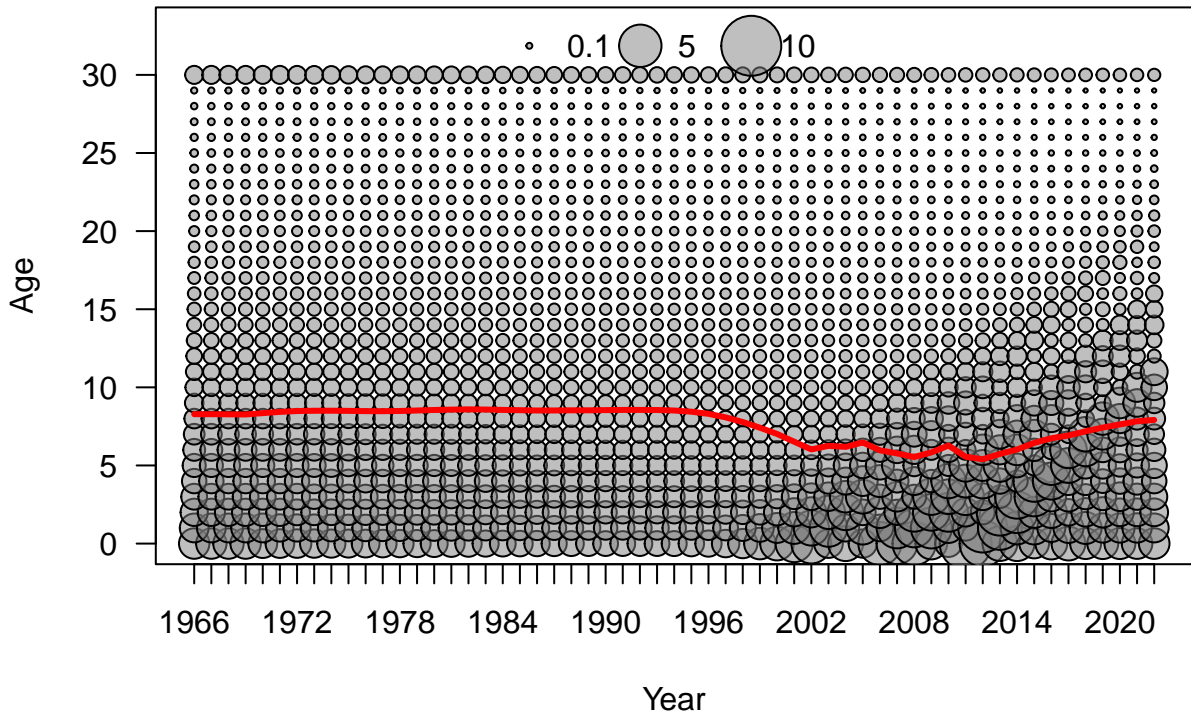


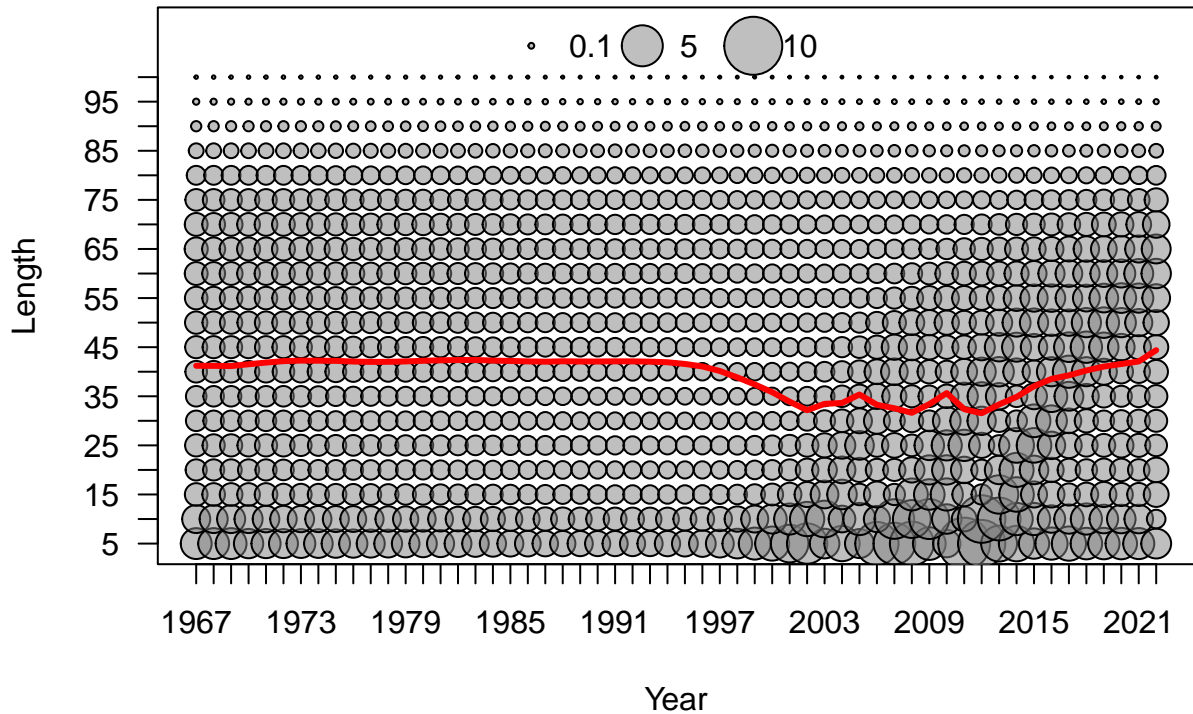


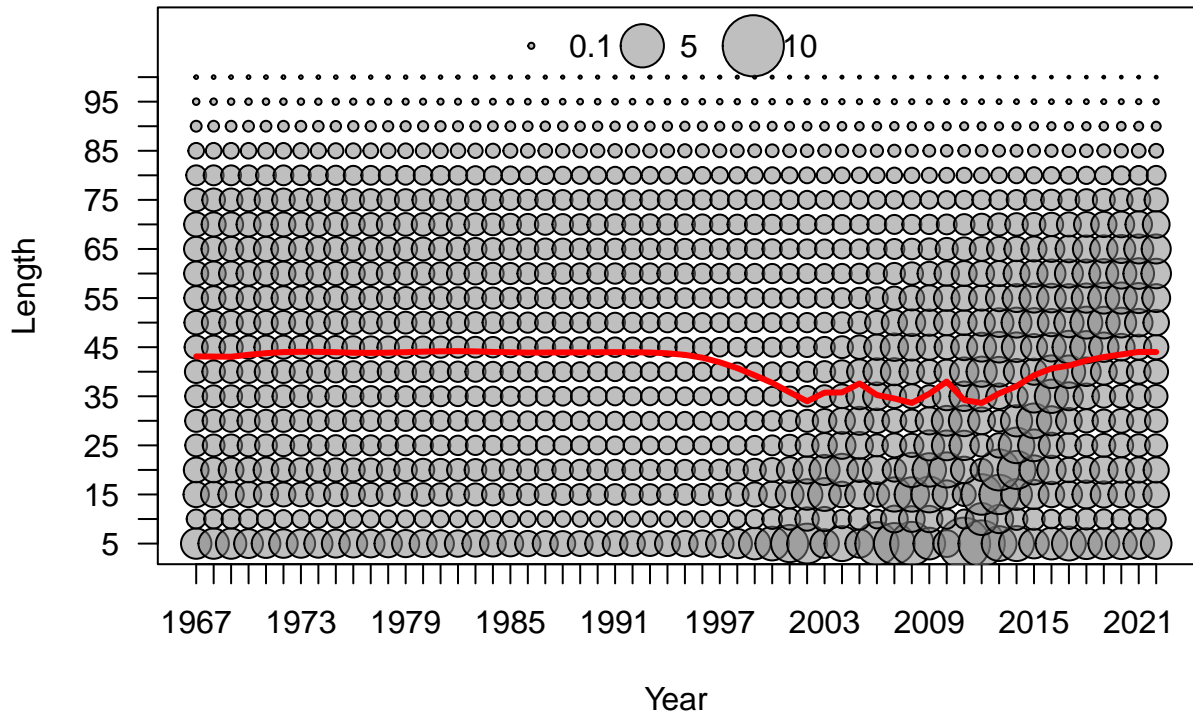


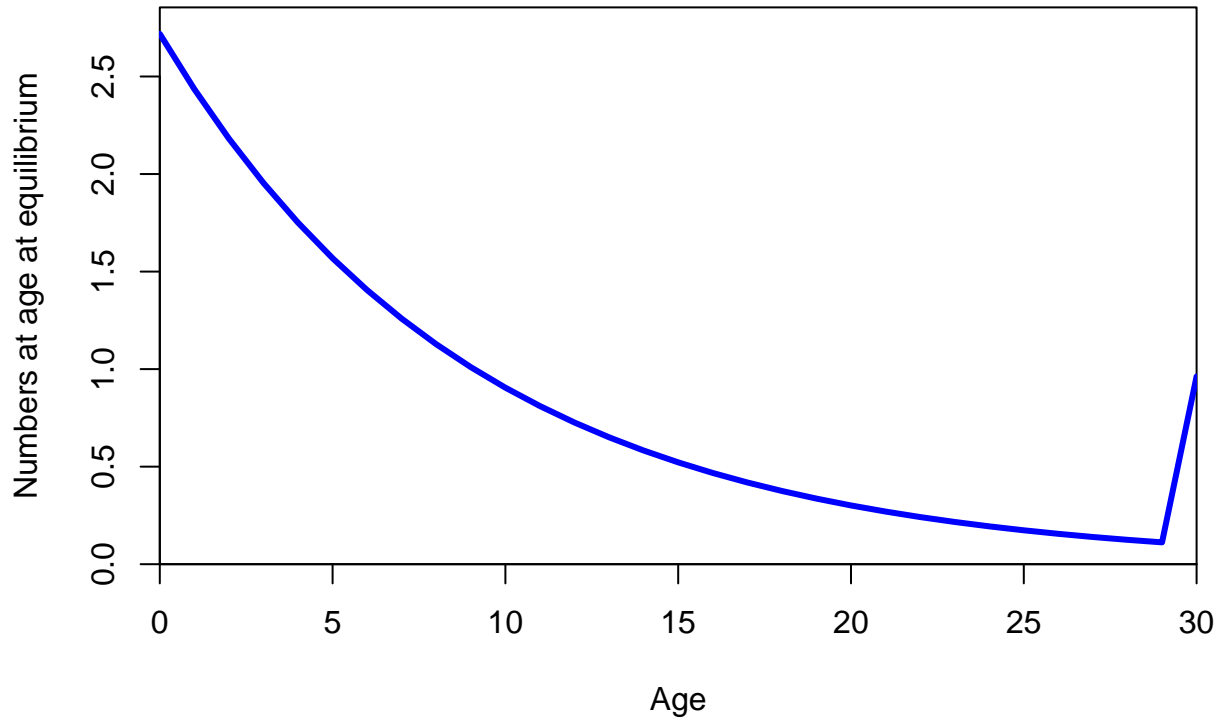






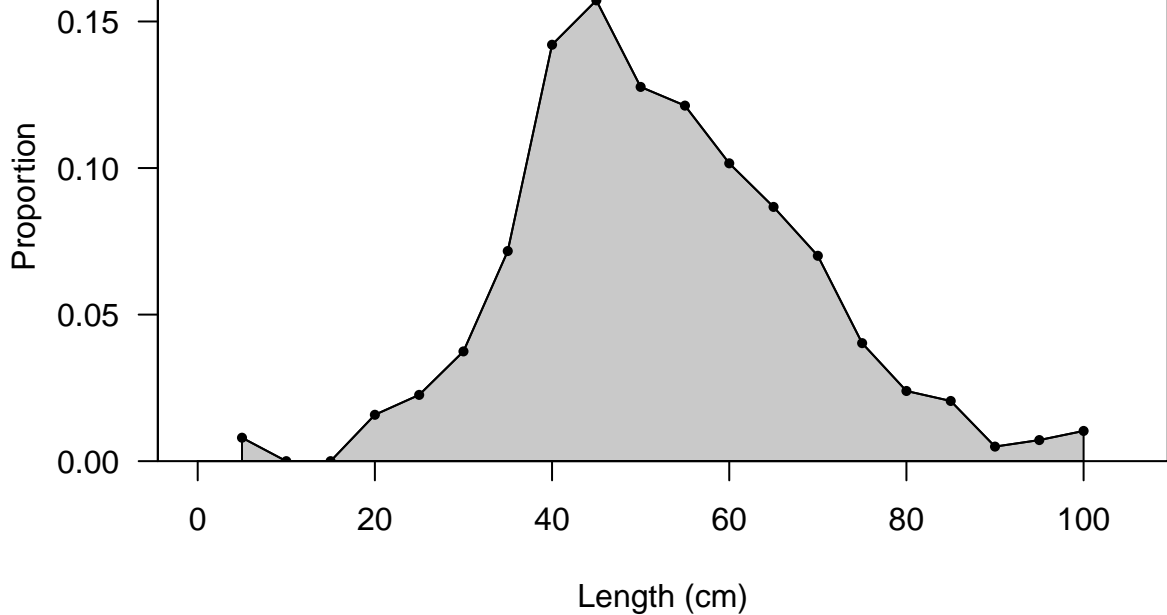


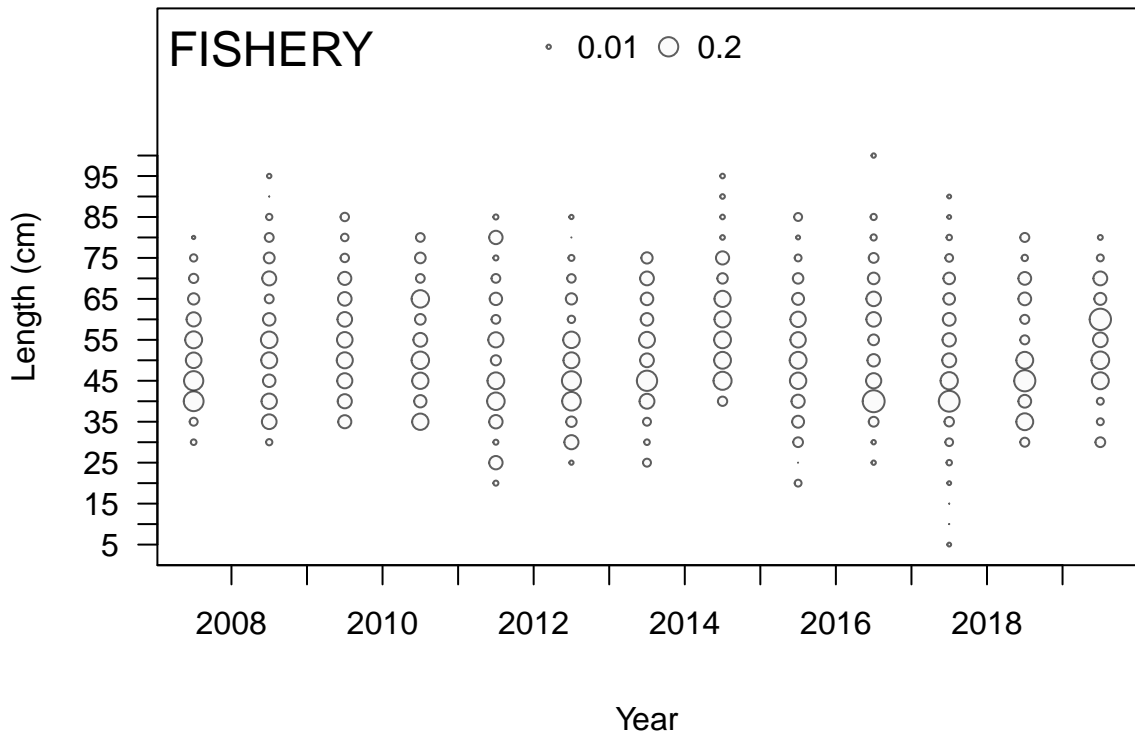




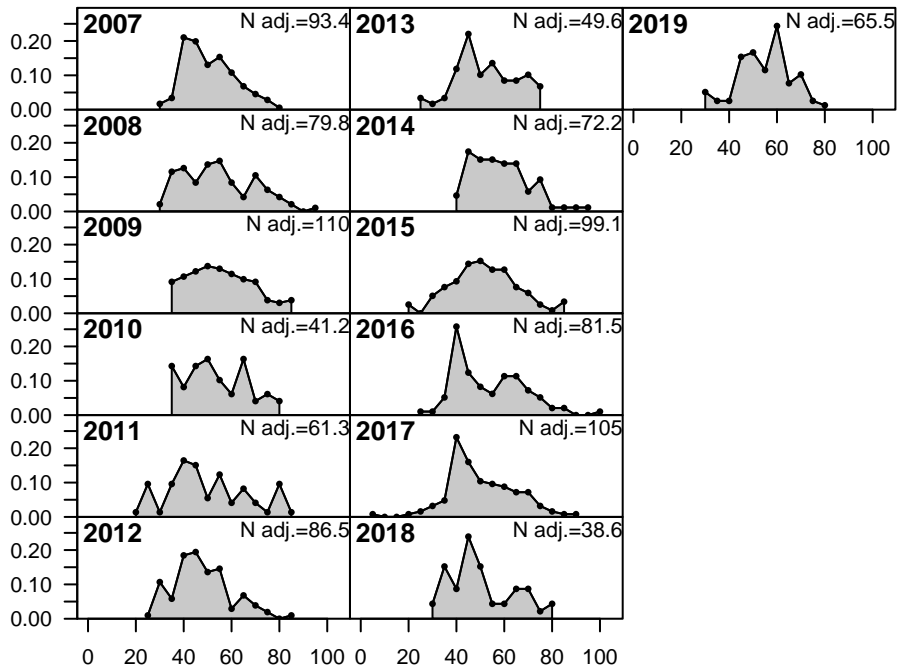
FISHERY

Sum of N adj.=983.8

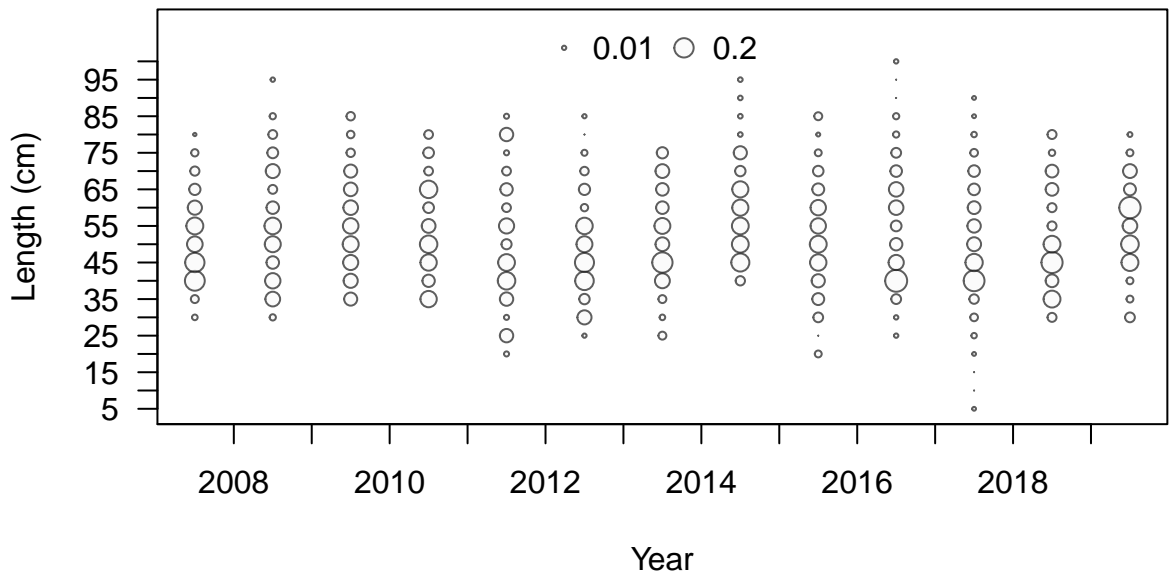




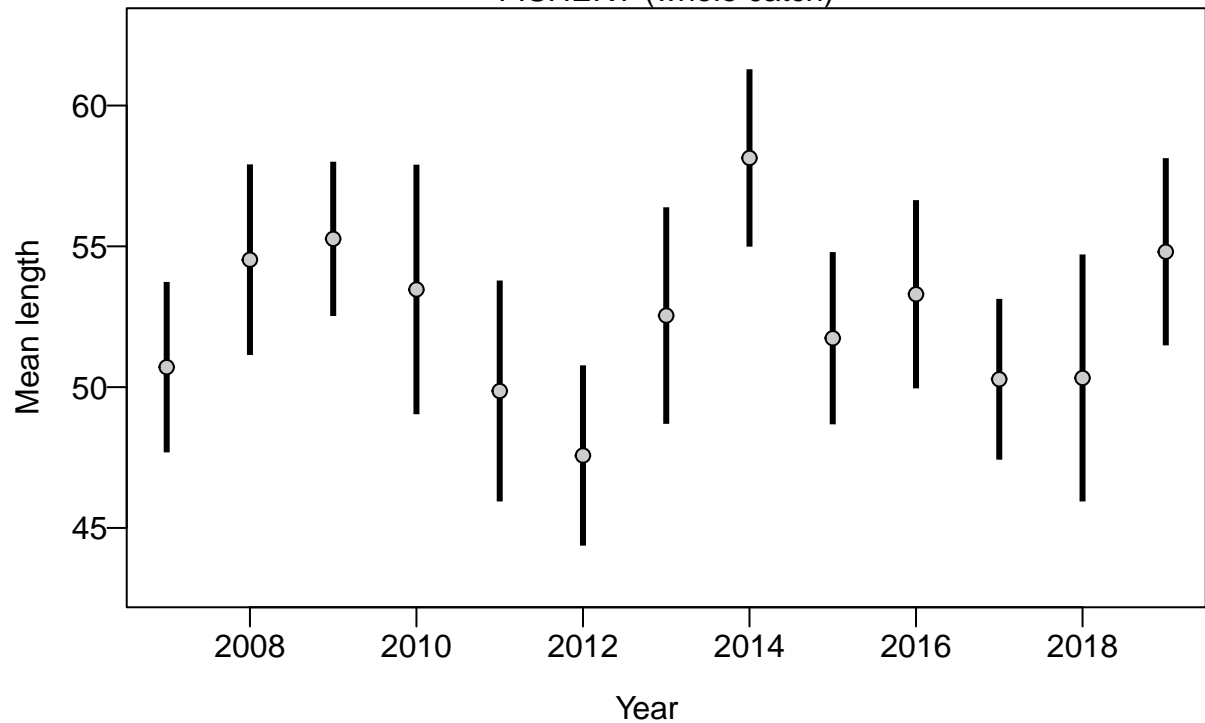
Proportion



Length (cm)

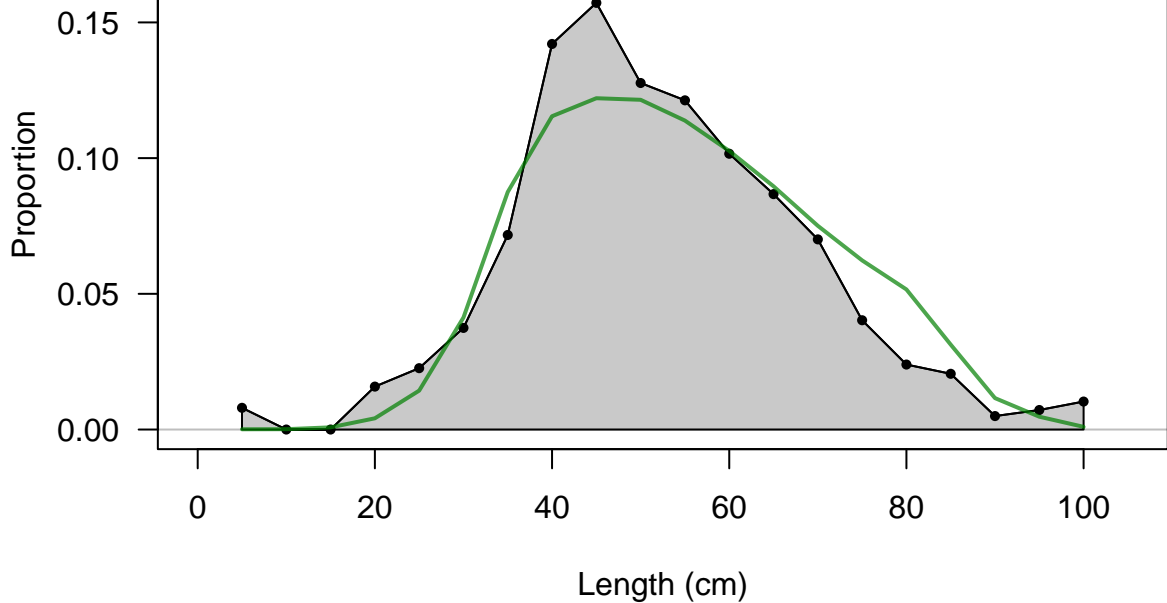


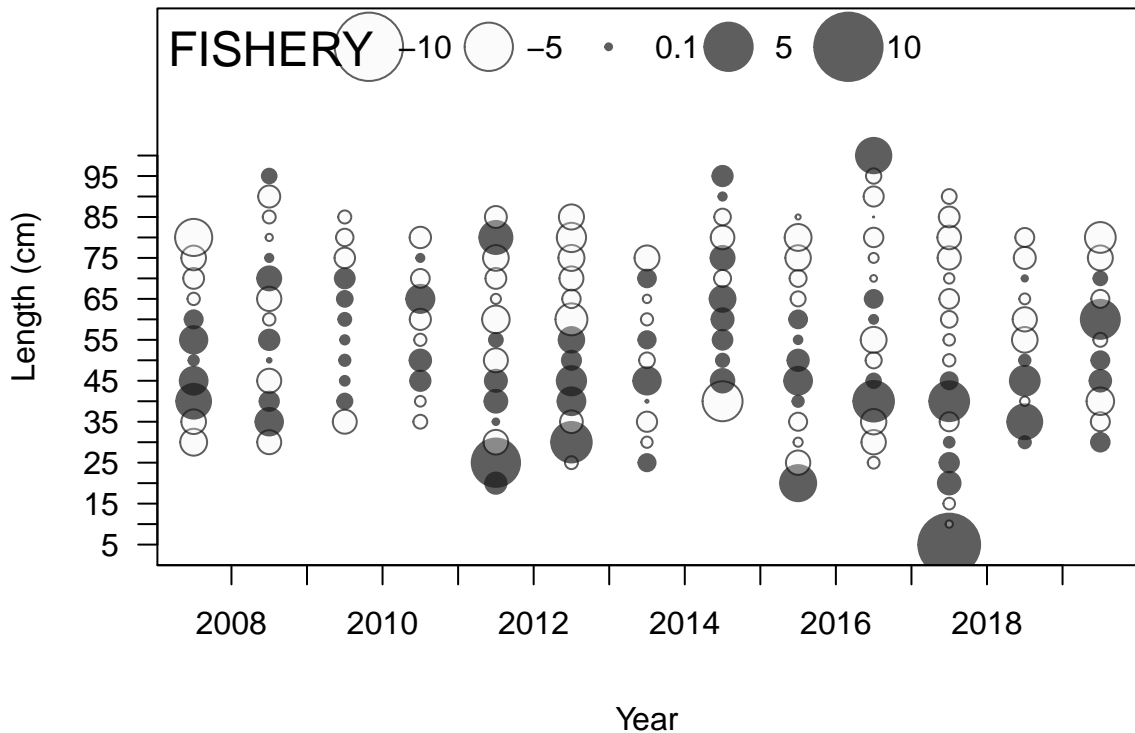
FISHERY (whole catch)



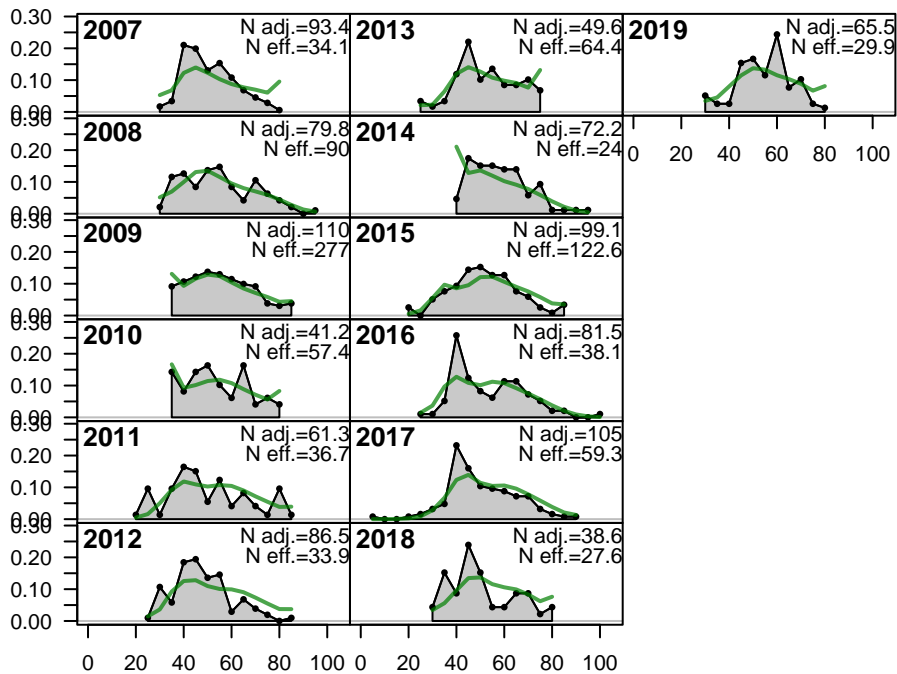
FISHERY

Sum of N adj.=983.8
Sum of N eff.=894.9

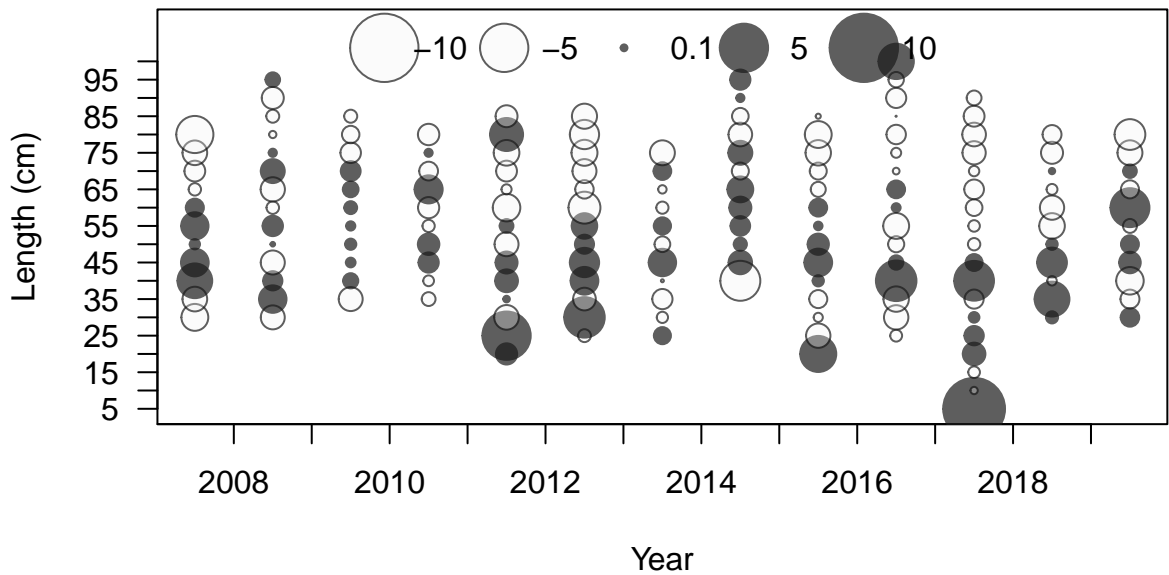




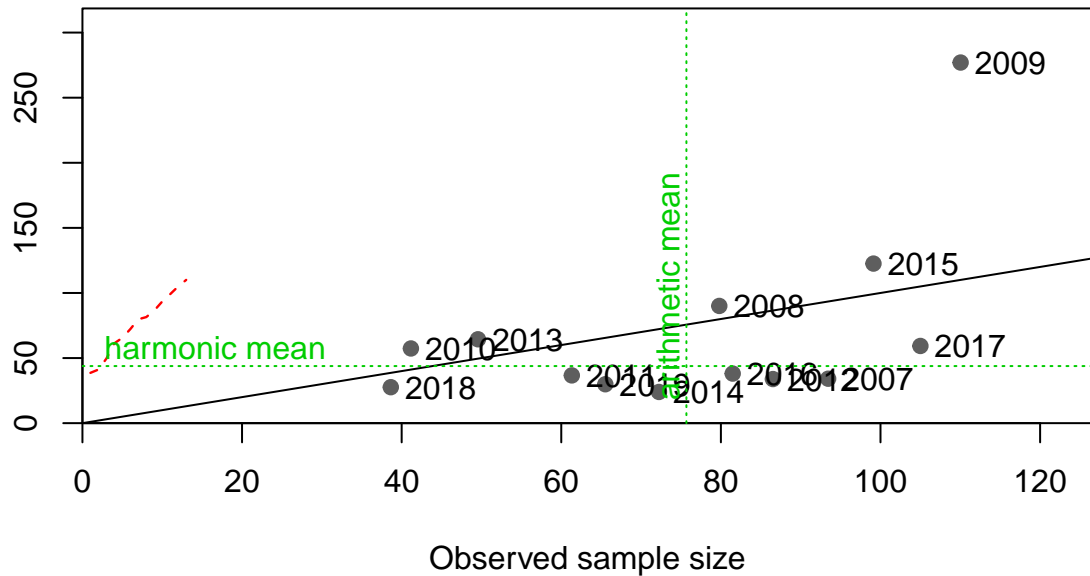
Proportion



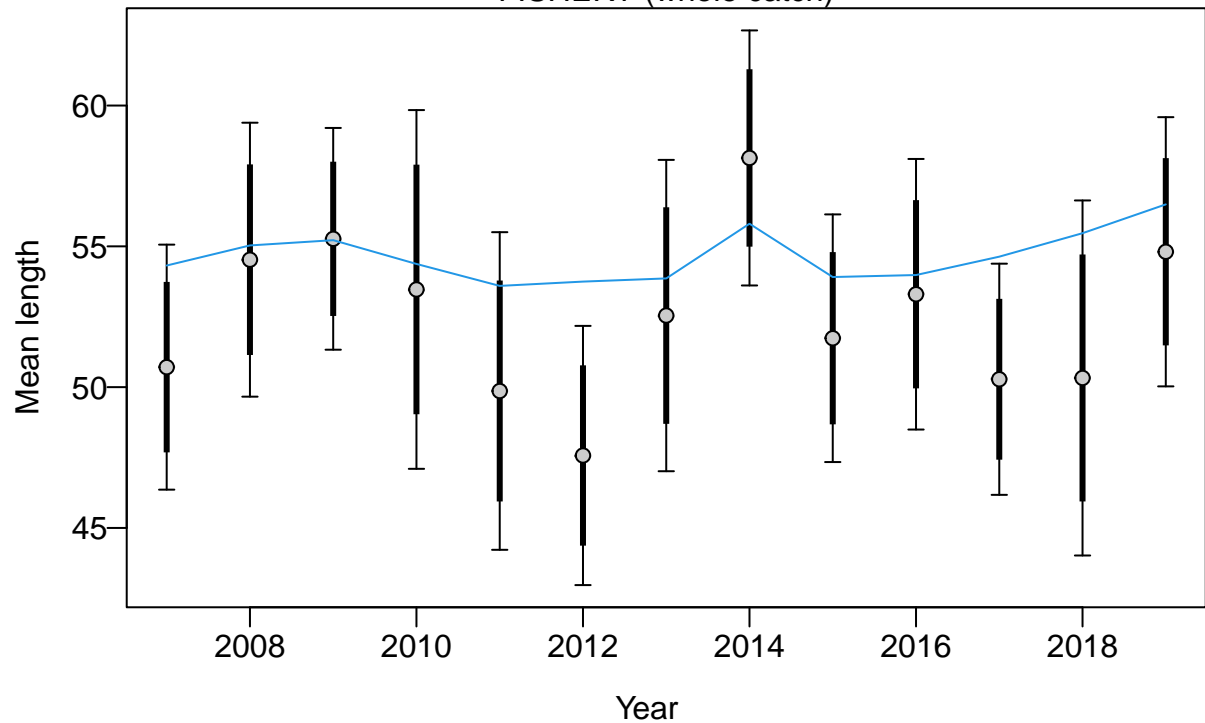
Length (cm)

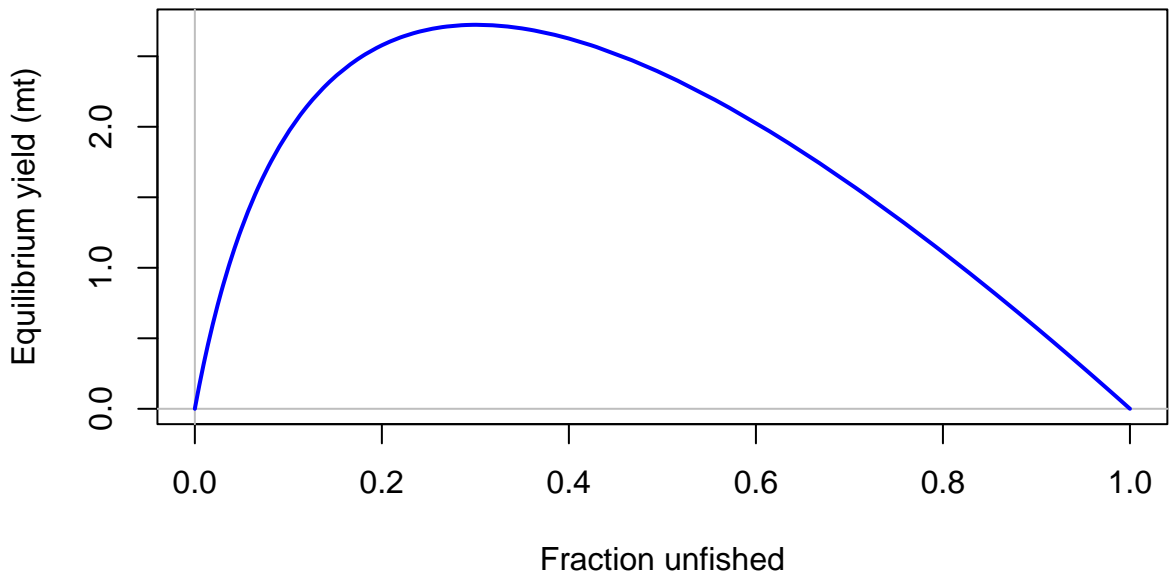


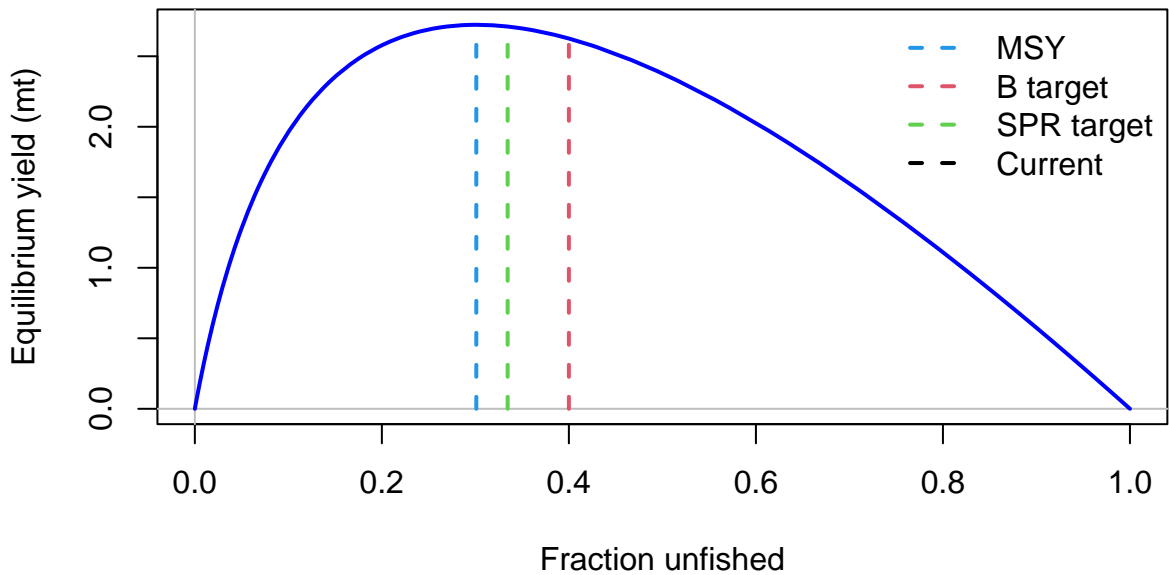
Effective sample size

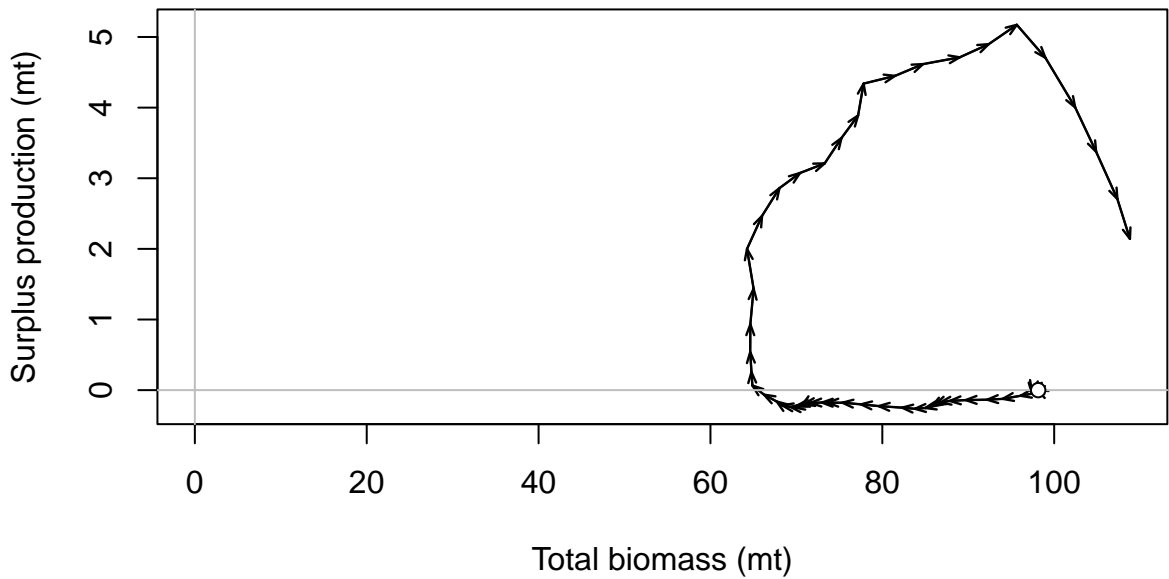


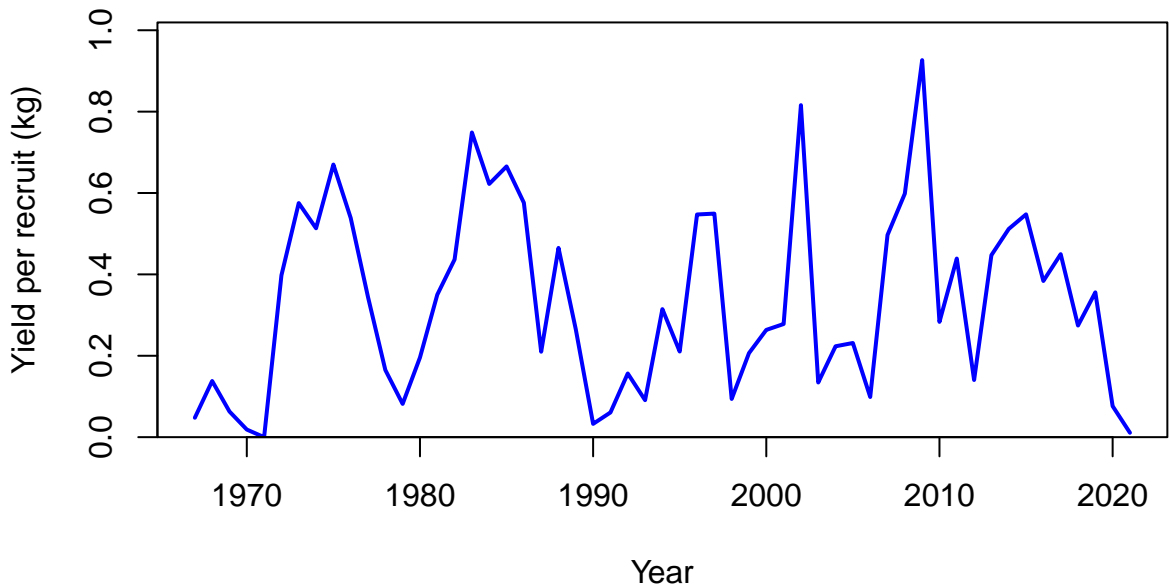
FISHERY (whole catch)

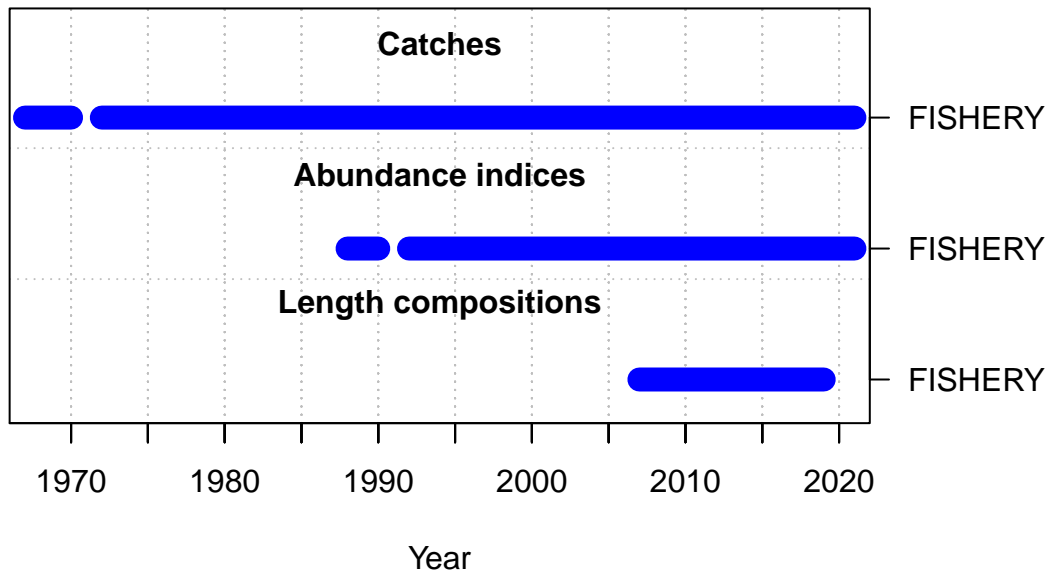


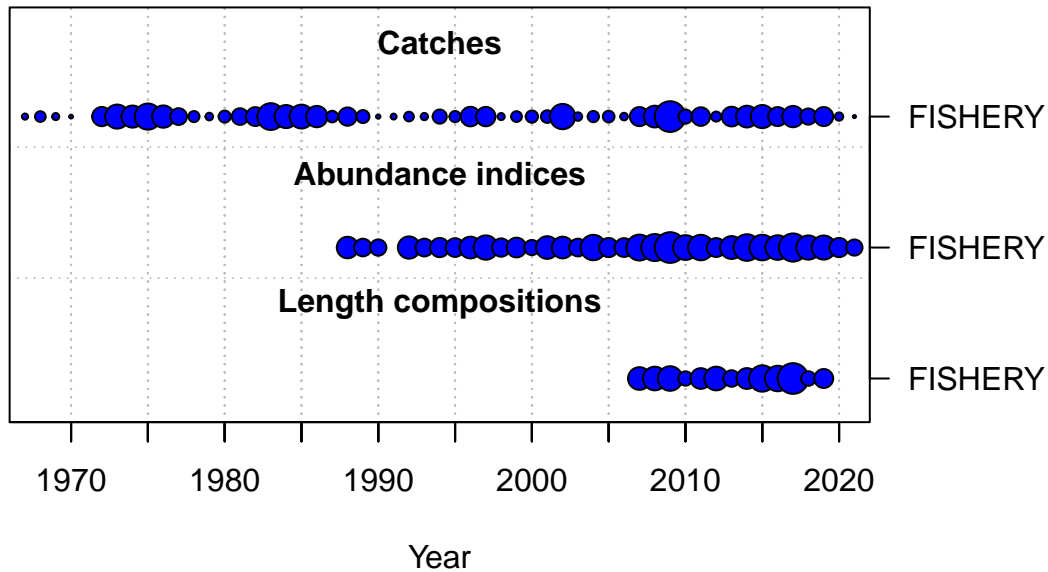






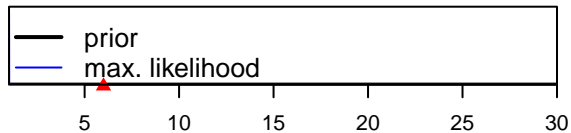




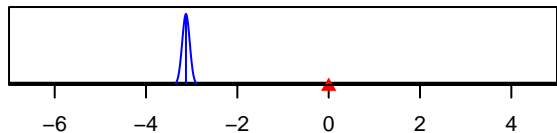


Density

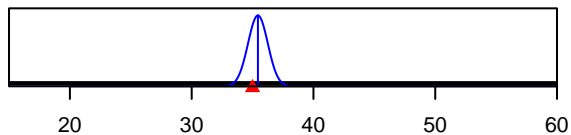
SR_LN(R0)



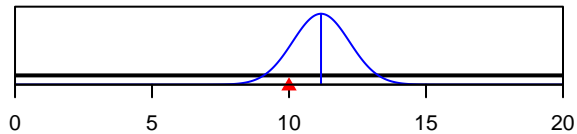
LnQ_base_FISHERY(1)



Size_inflection_FISHERY(1)



Size_95%width_FISHERY(1)



Parameter value