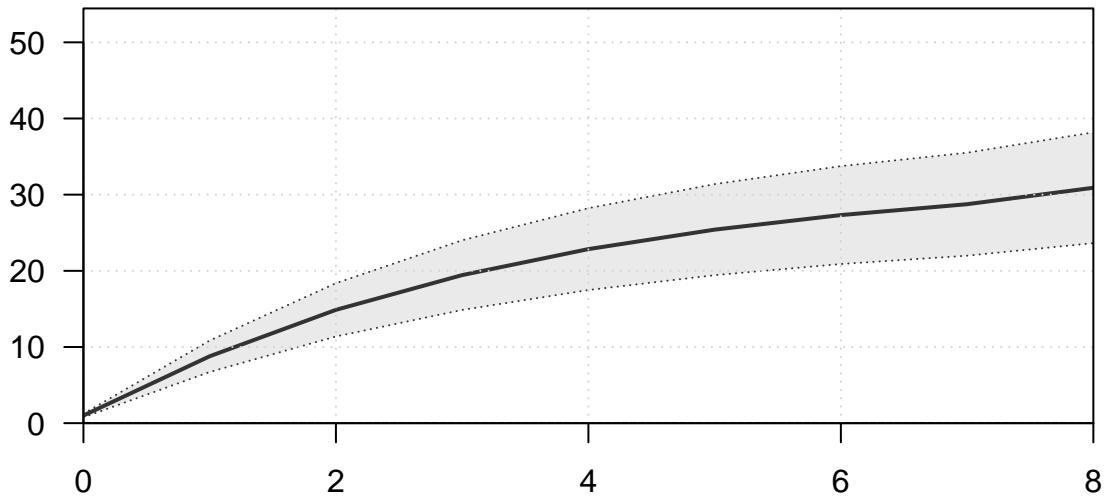
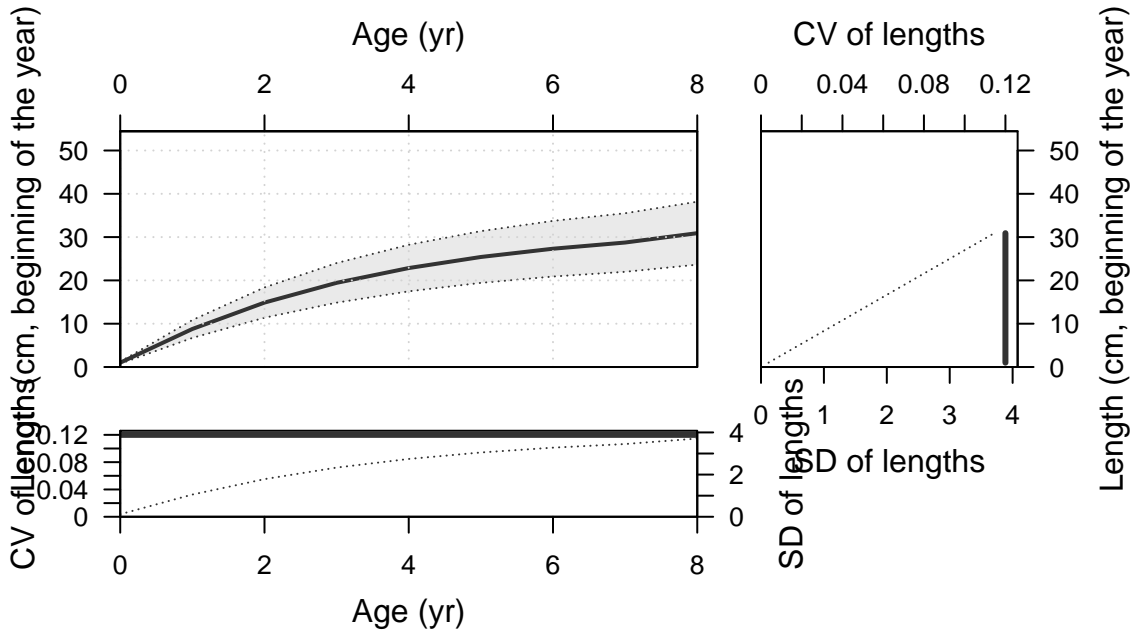


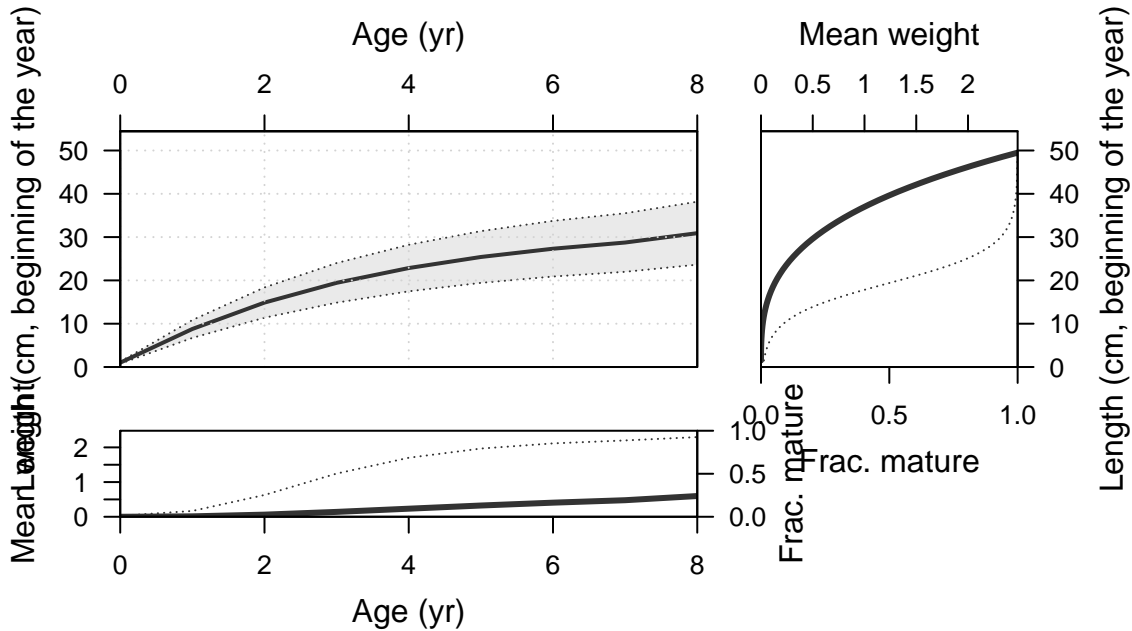
Plots created using the 'r4ss' package in R
Stock Synthesis version: 3.30.19.0
StartTime: Wed Jun 29 13:44:50 2022
Data_File: data.ss
Control_File: control.ss

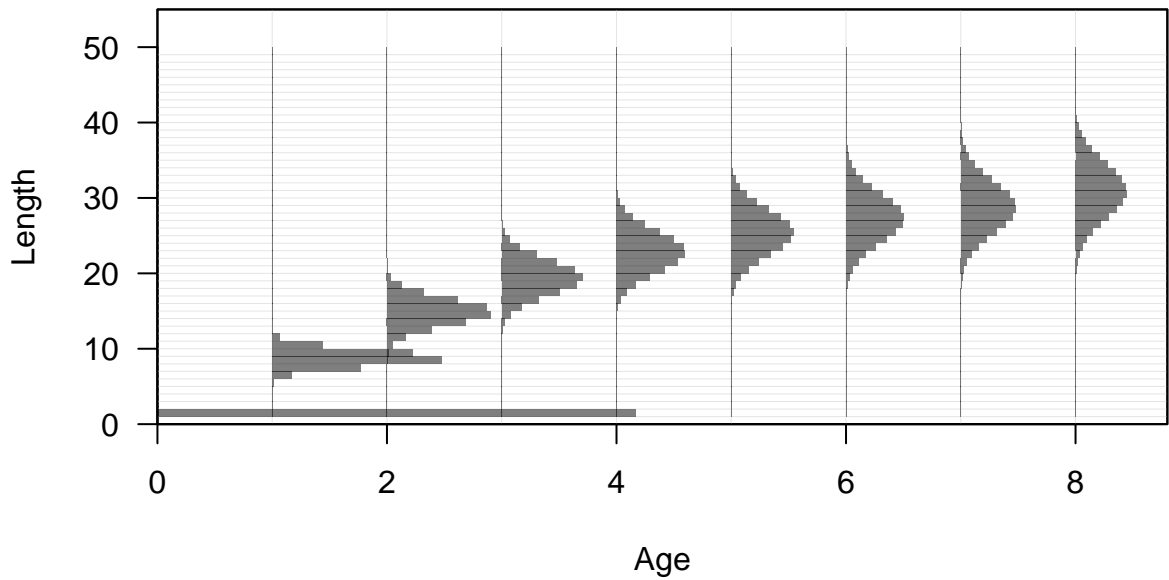
Length (cm, beginning of the year)

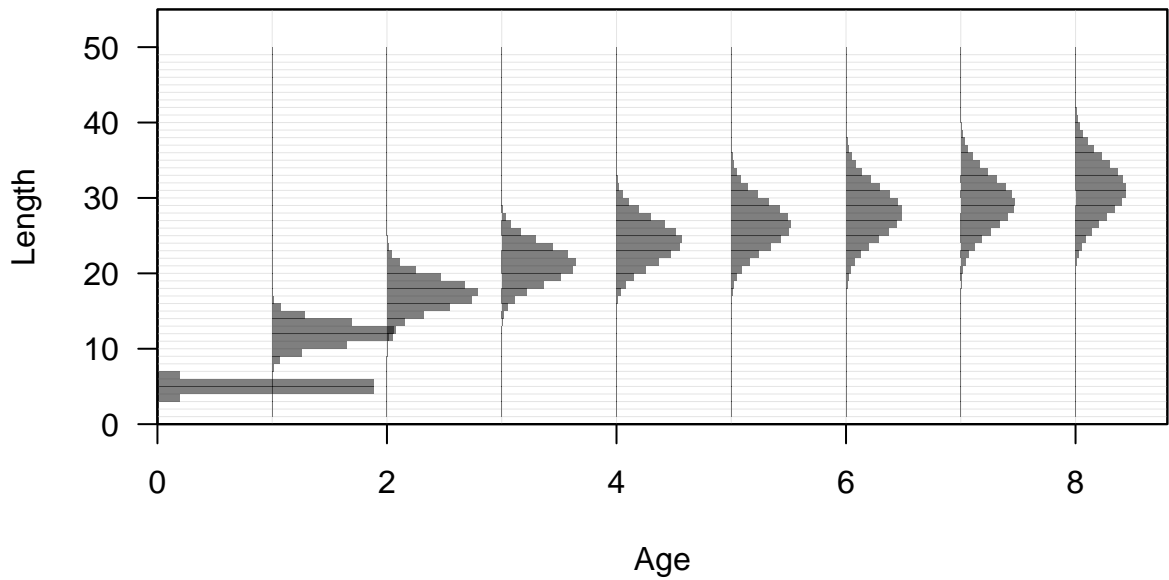


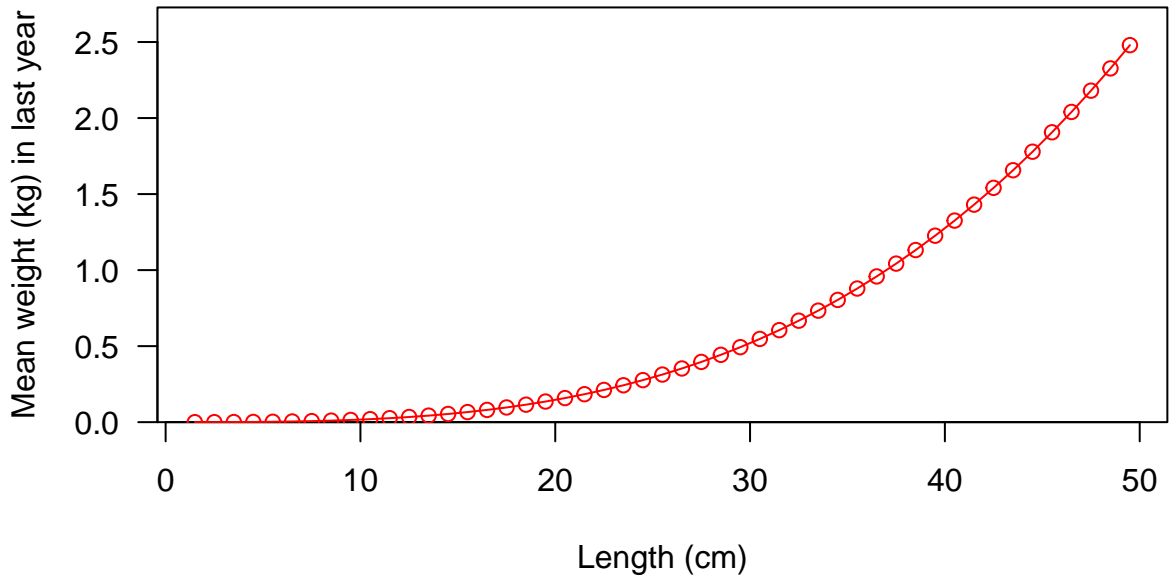
Age (yr)

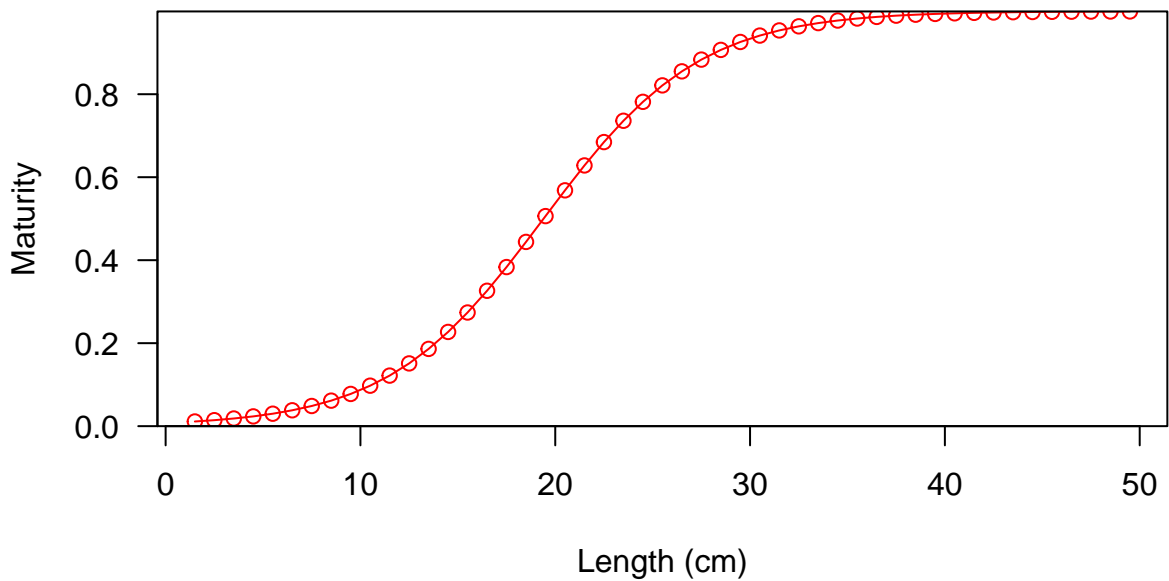


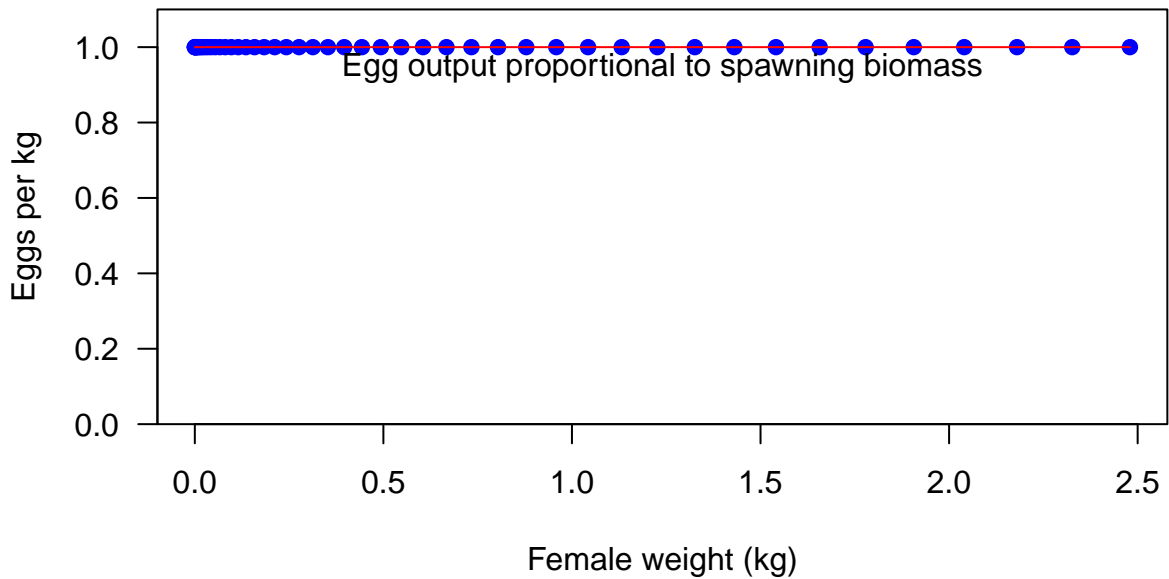


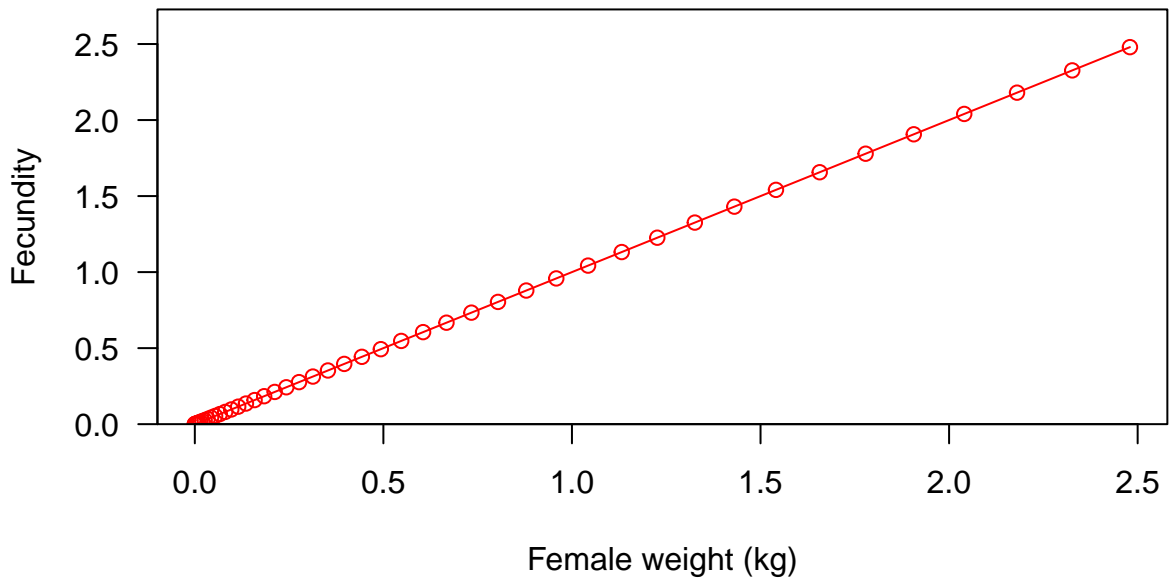


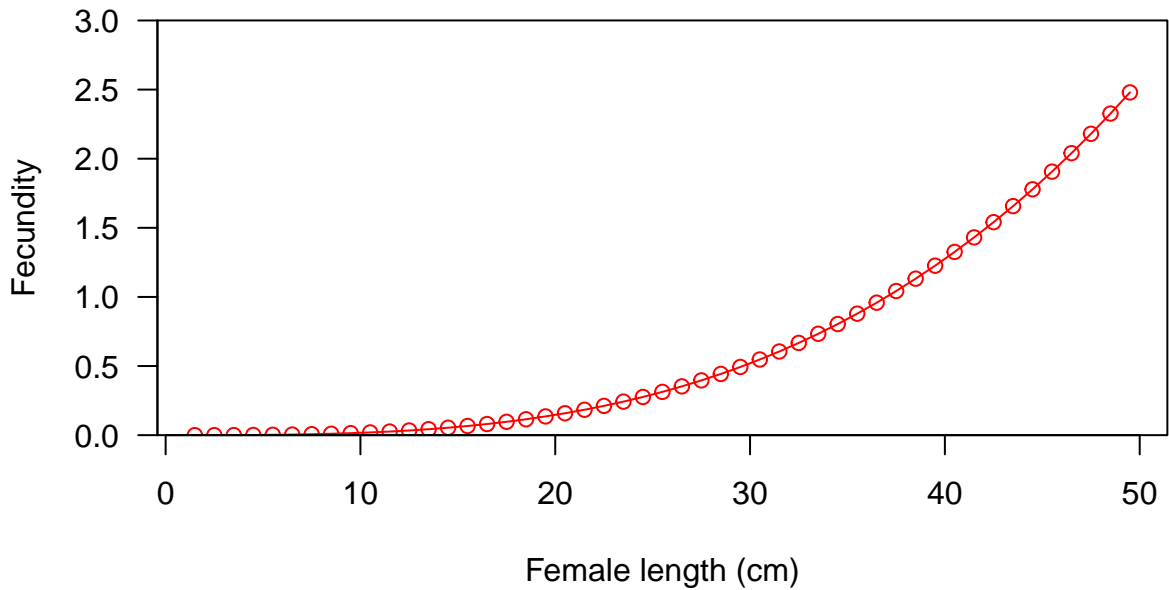


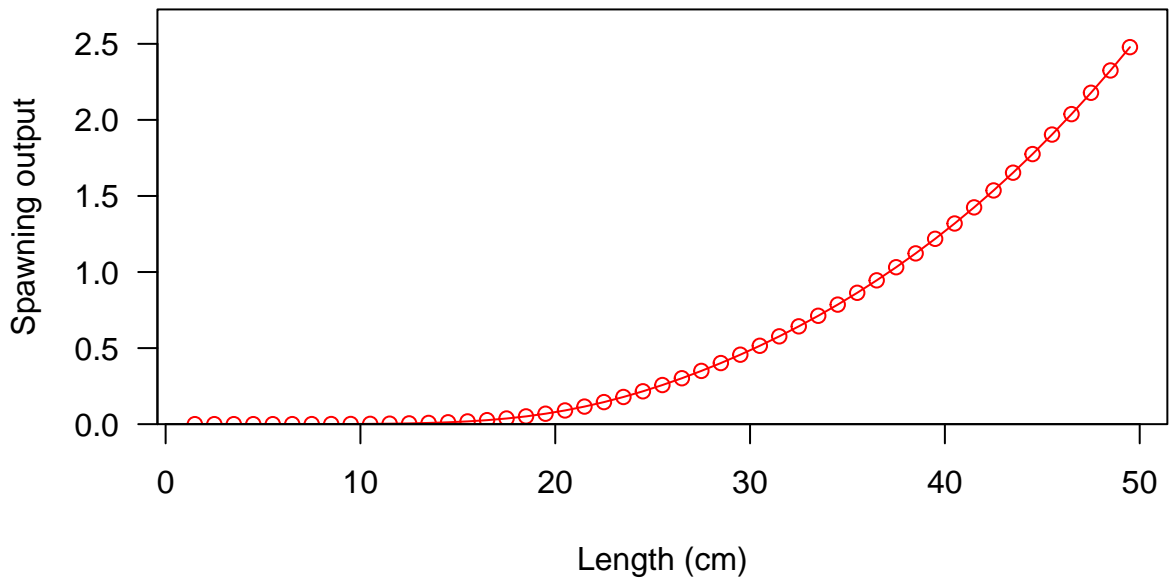


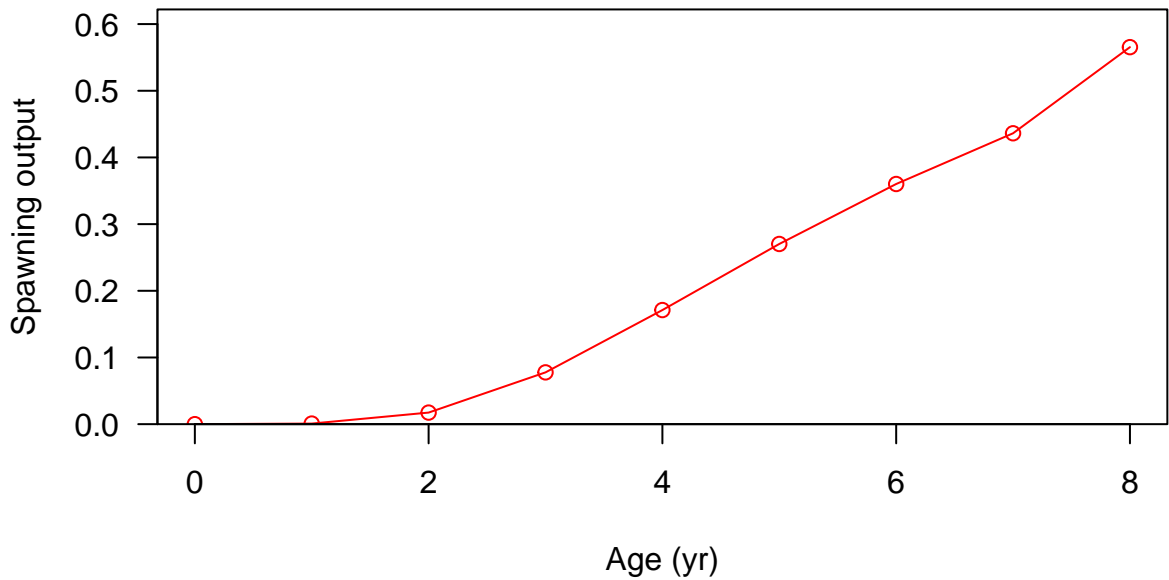




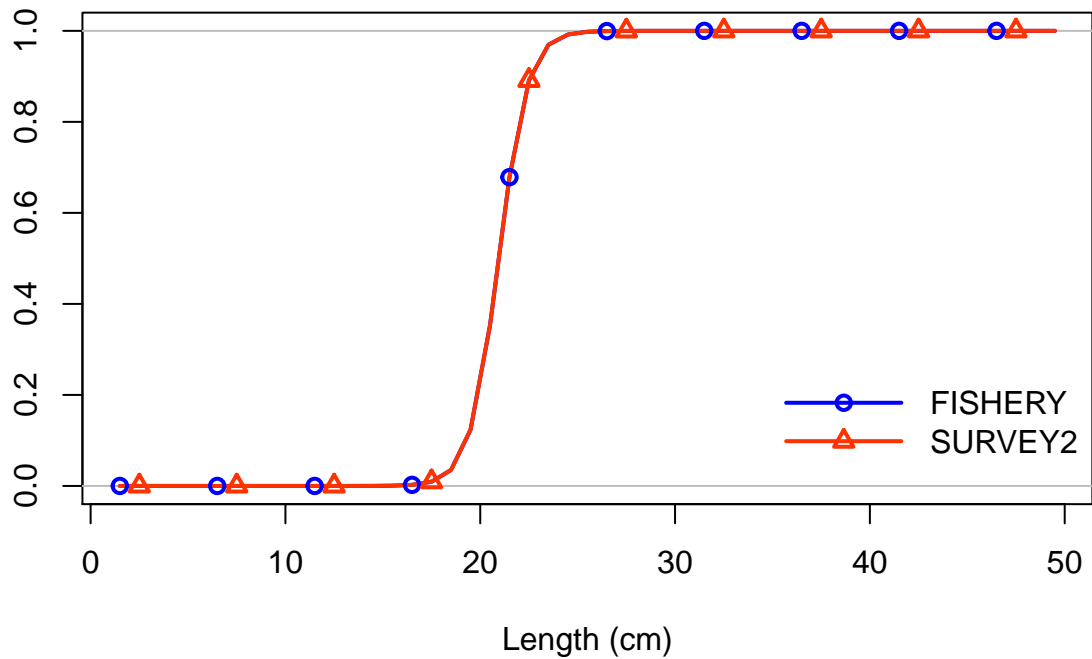




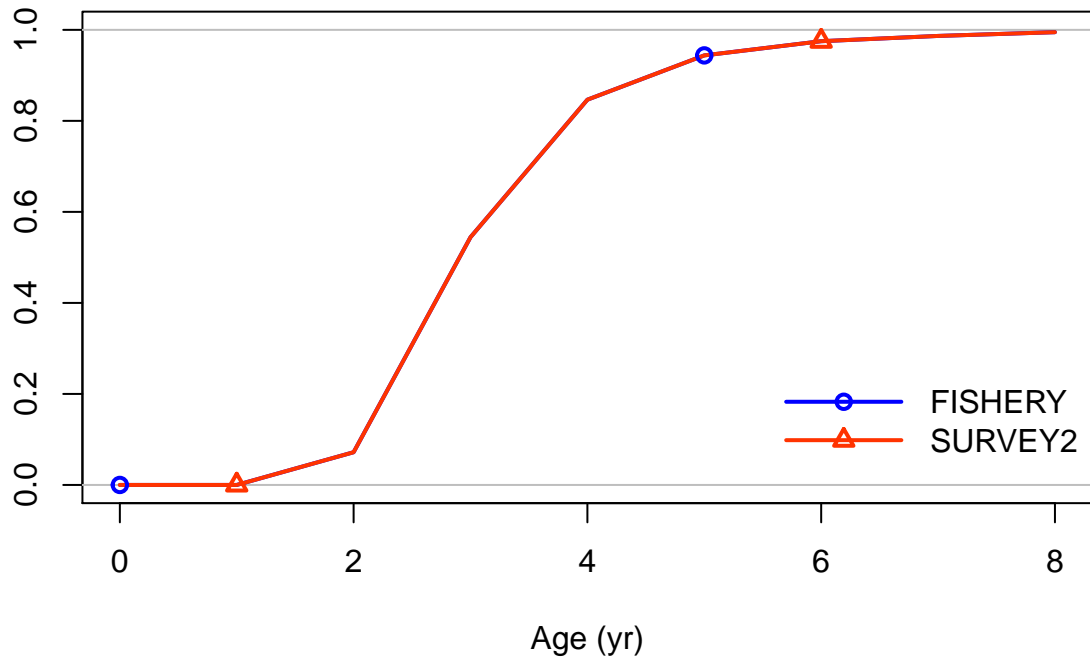




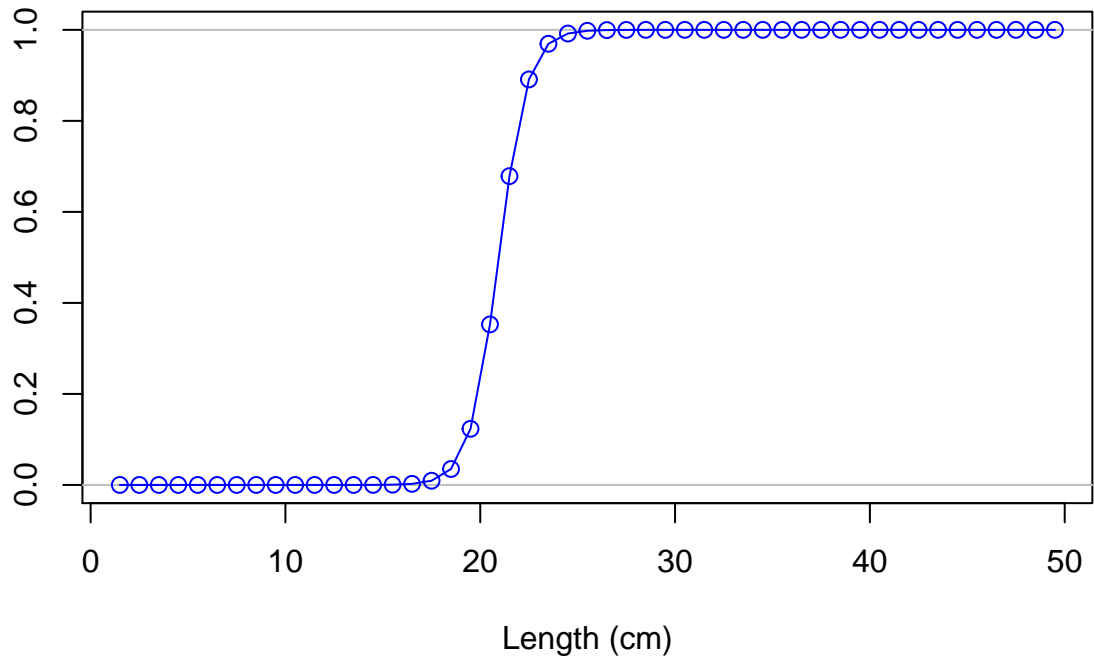
Selectivity



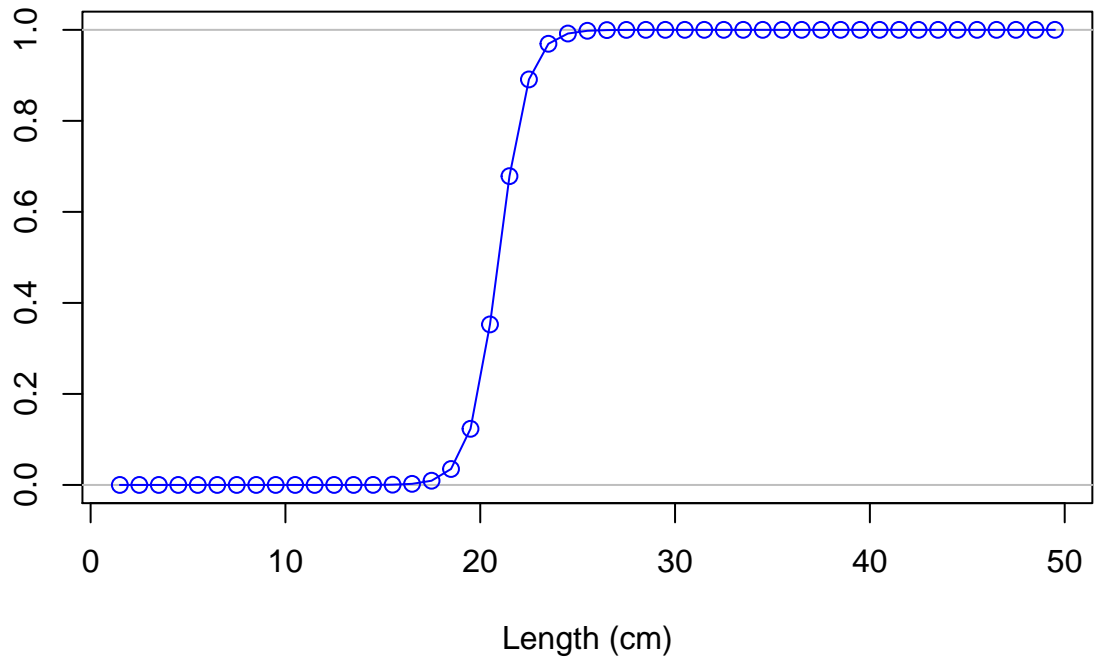
Selectivity

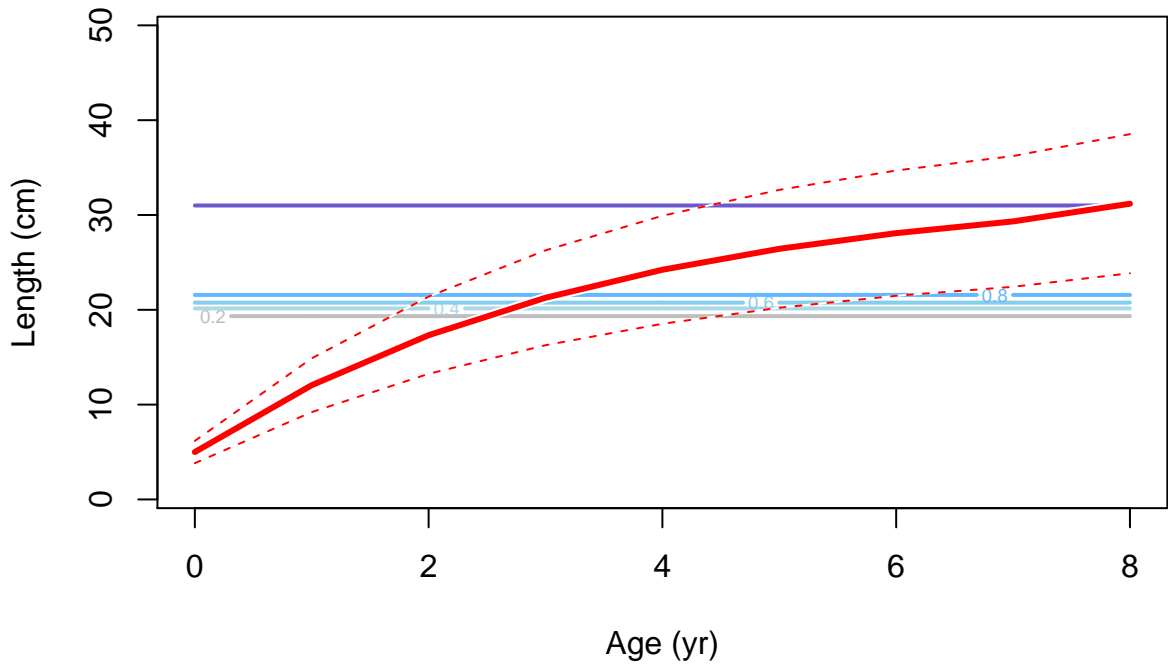


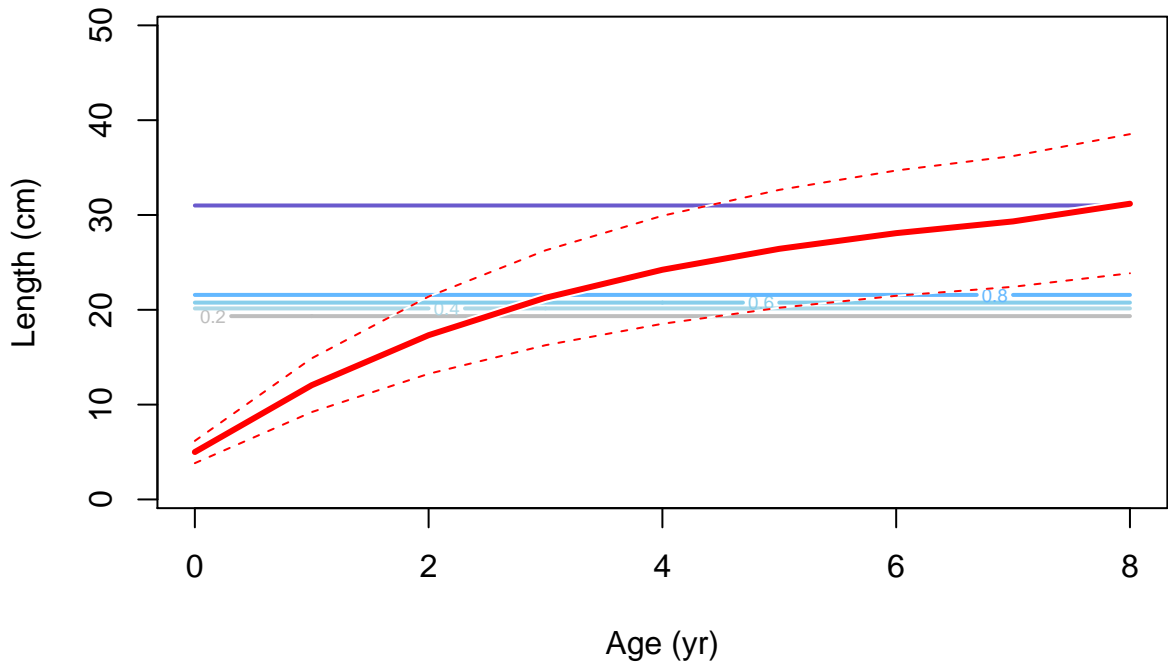
Selectivity

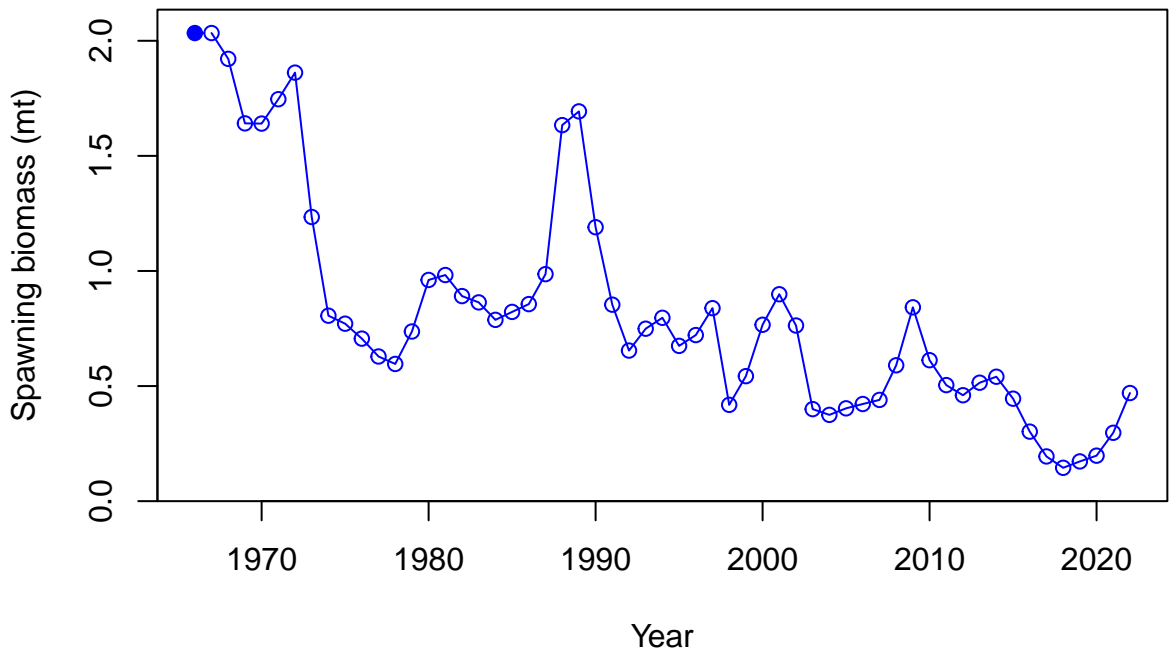


Selectivity

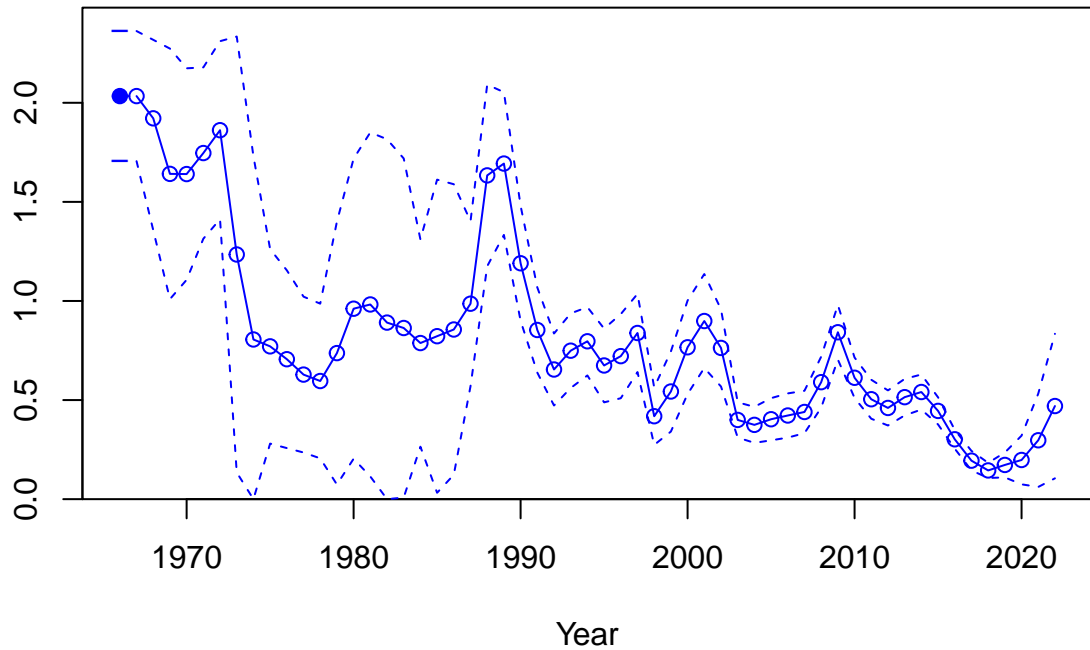




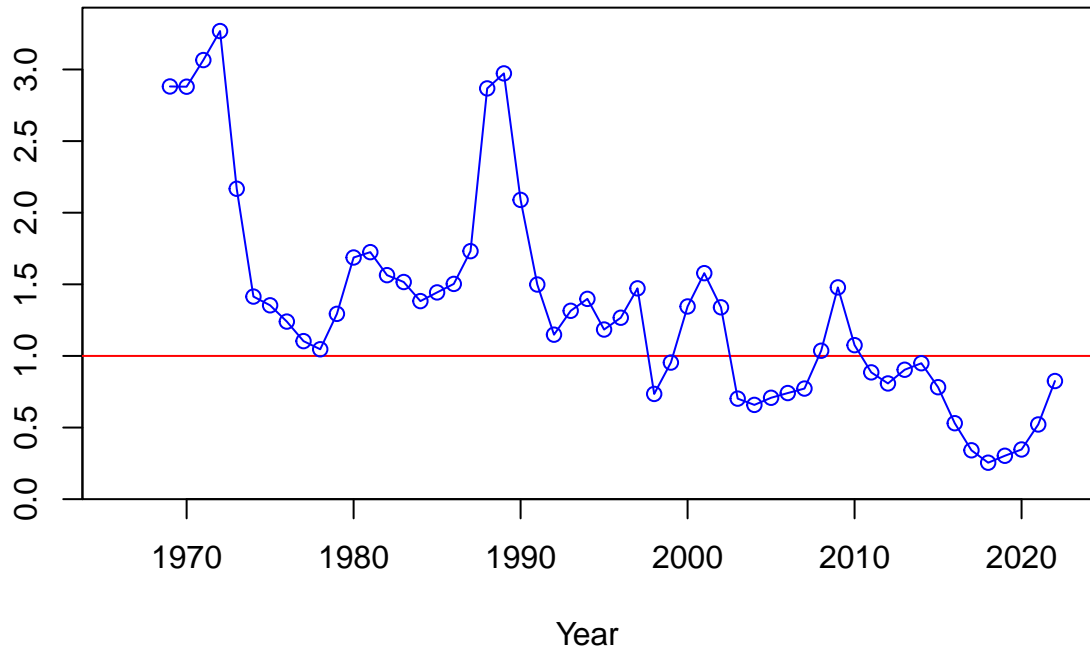




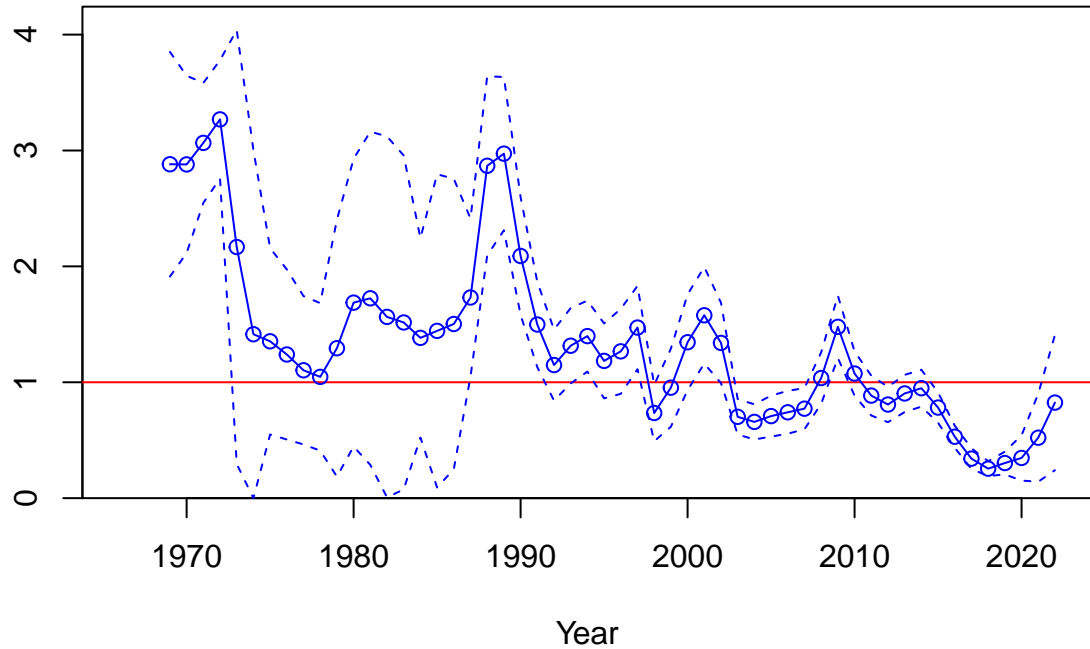
Spawning biomass (mt)

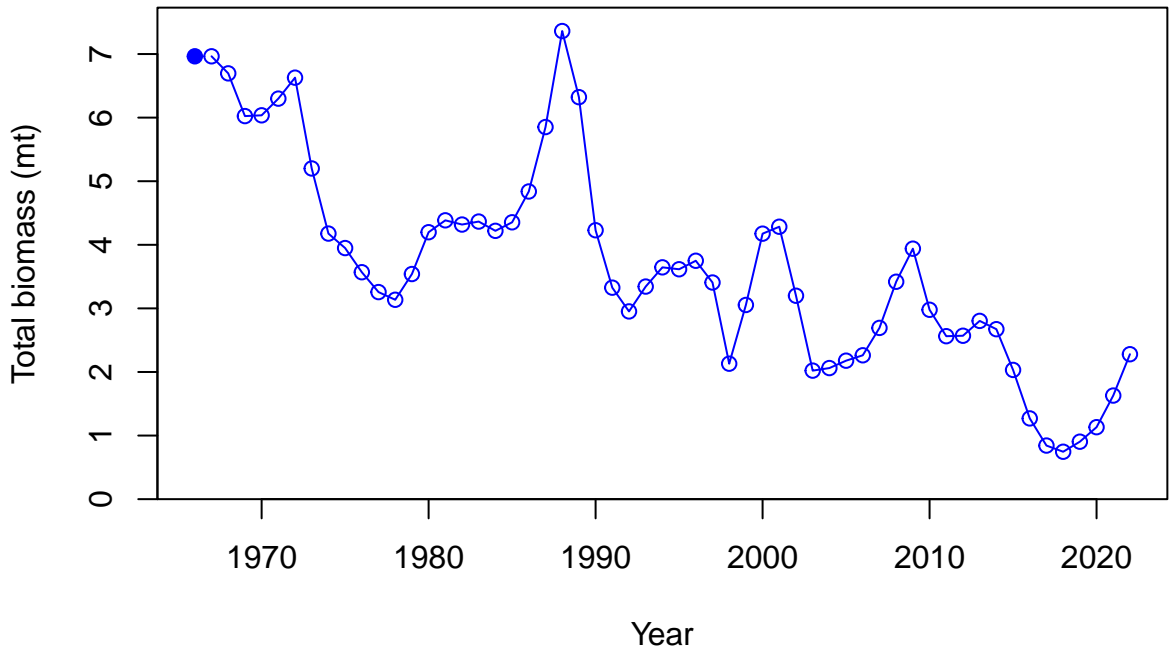


Relative spawning biomass: B/B_{MSY}

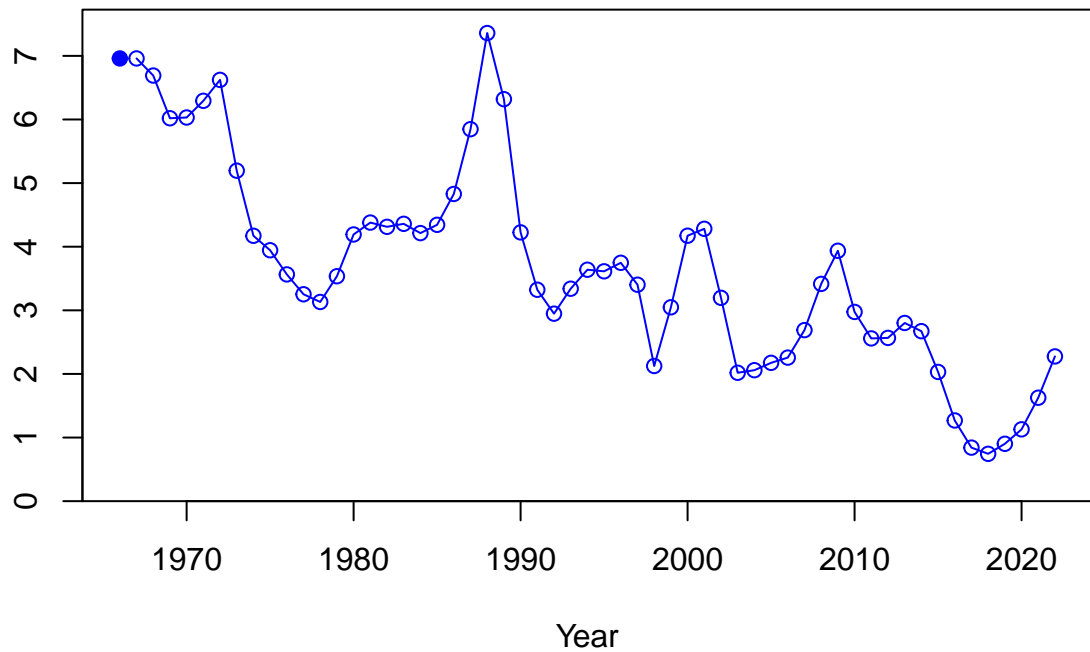


Relative spawning biomass: B/B_{MSY}

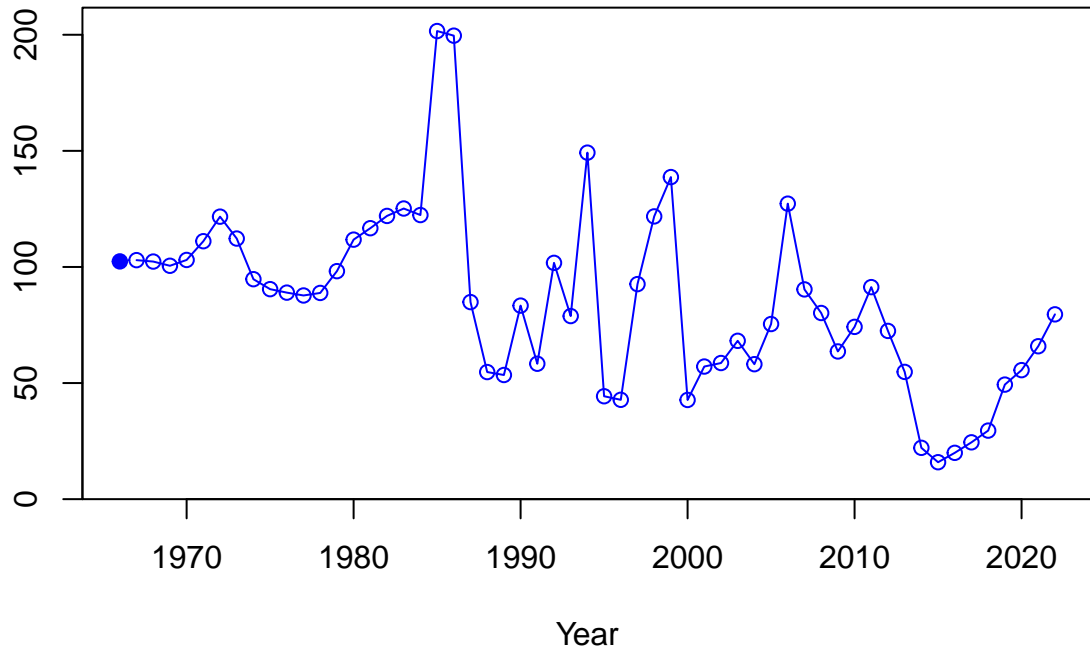




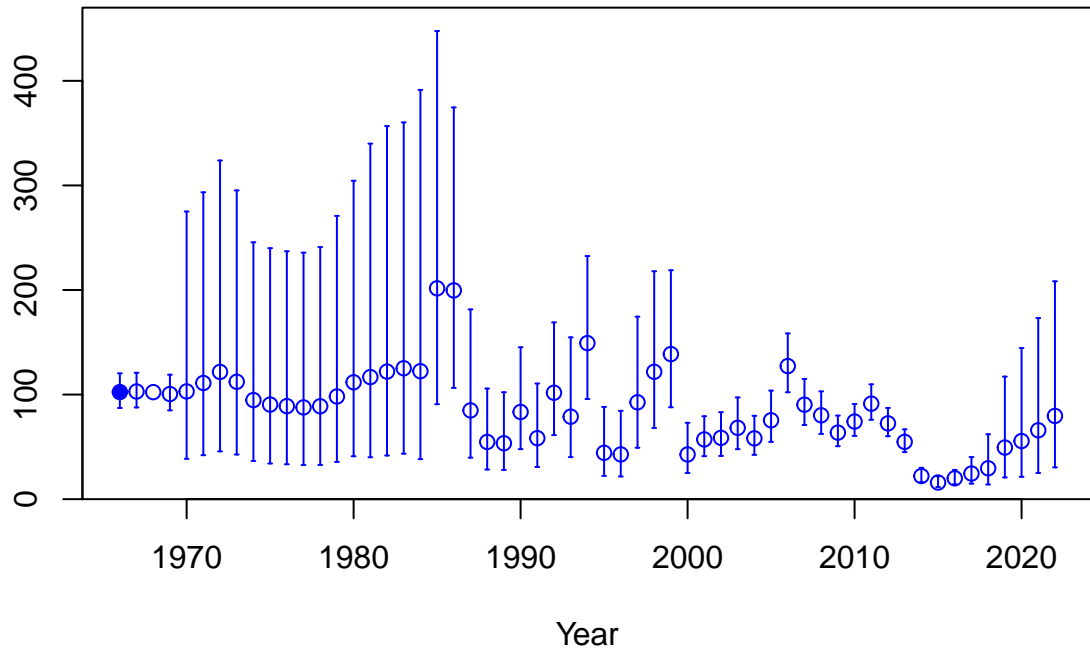
Summary biomass (mt)



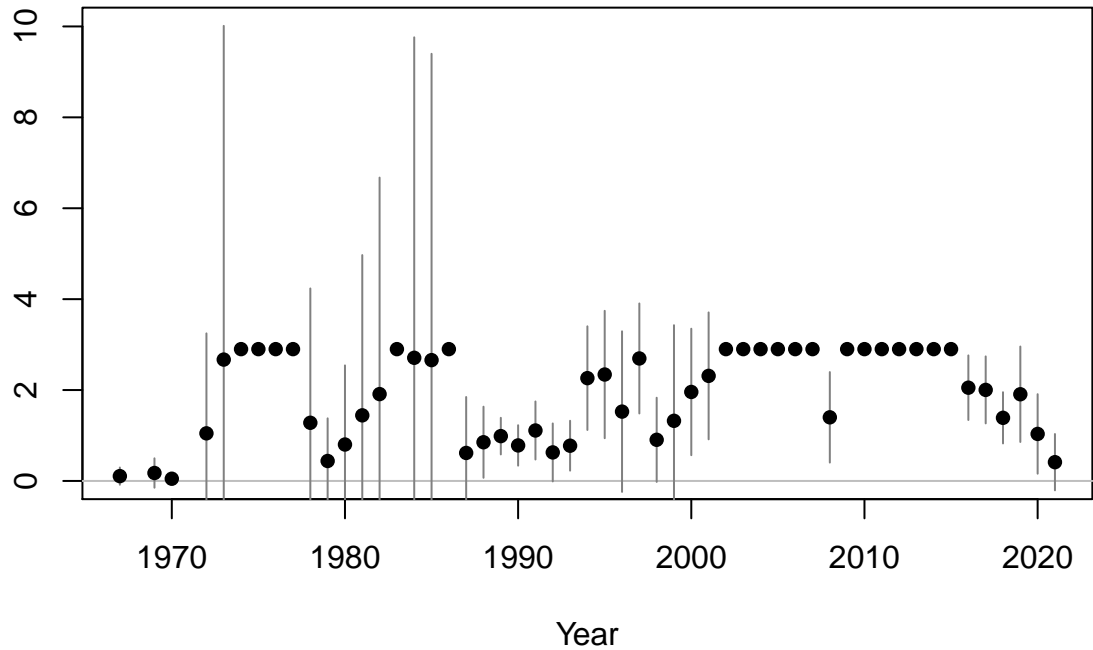
Age-0 recruits (1,000s)

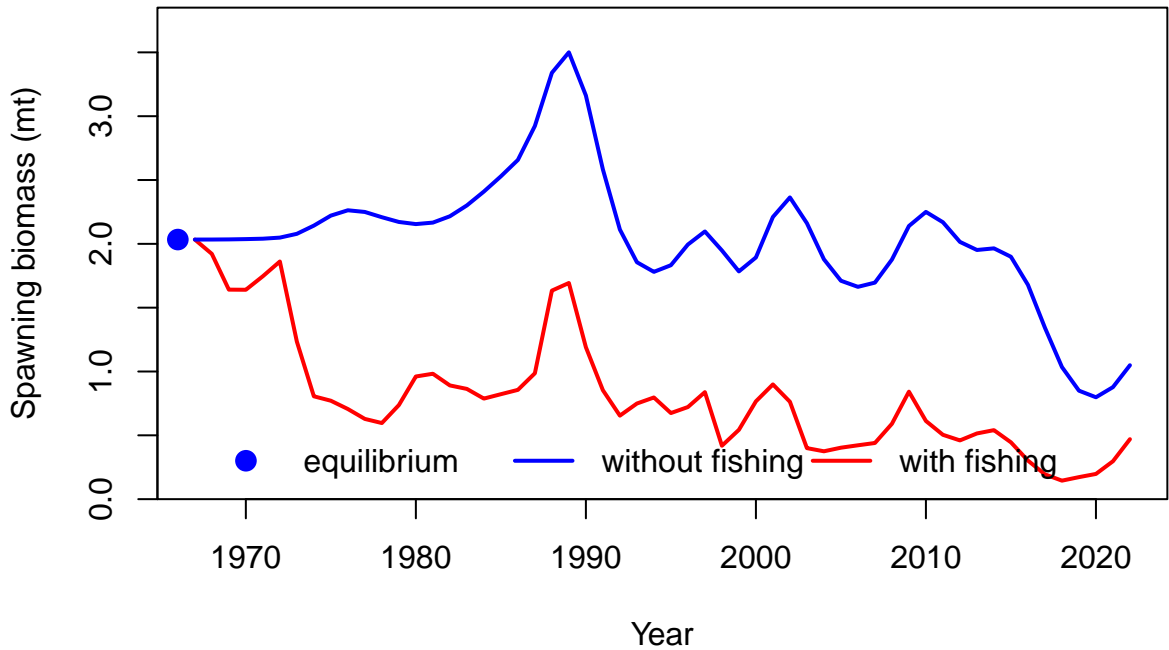


Age-0 recruits (1,000s)

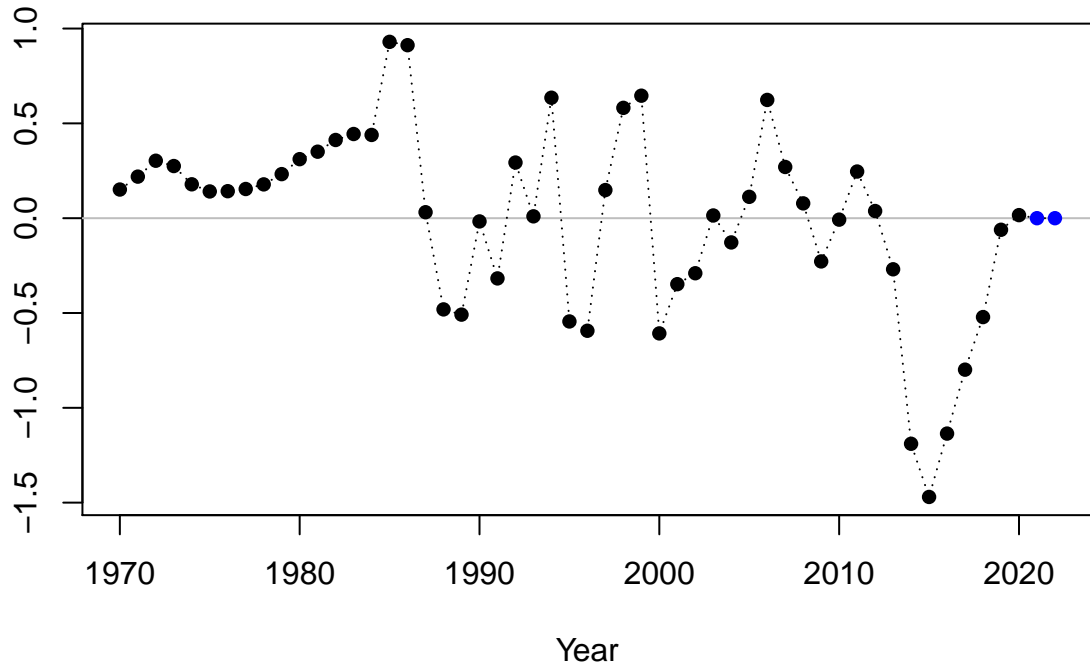


Summary Fishing Mortality





Log recruitment deviation



Log recruitment deviation

1.5
0.5
-0.5
-1.5

1970

1980

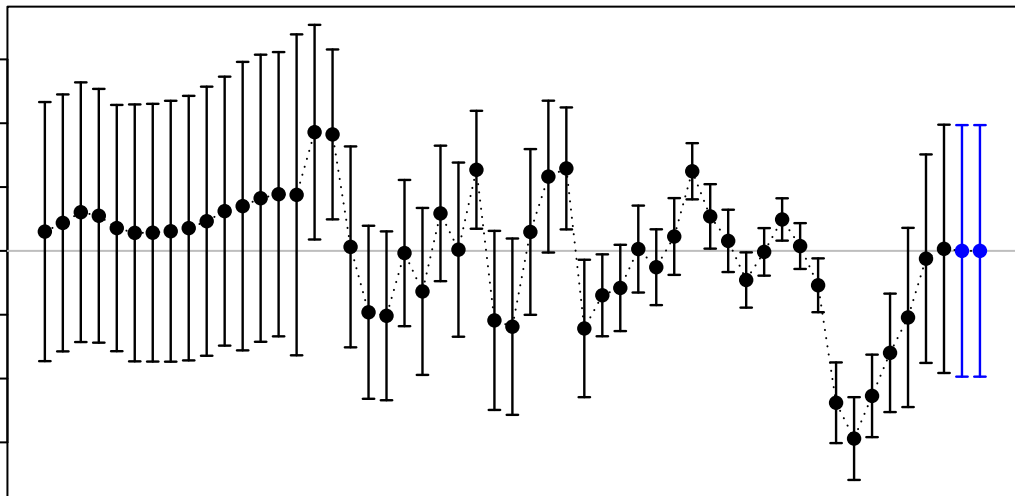
1990

2000

2010

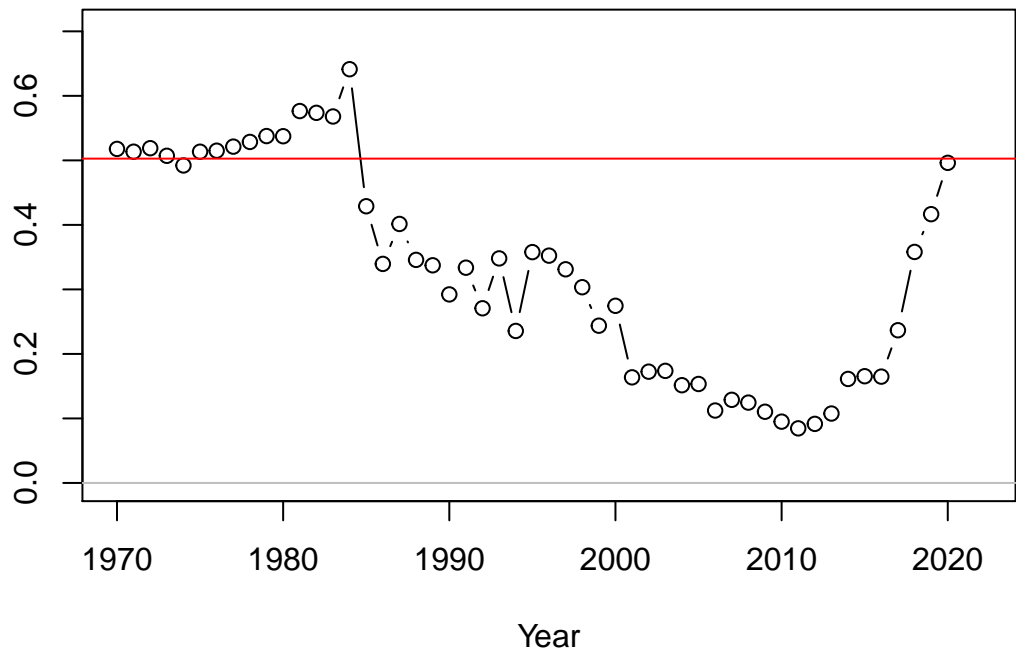
2020

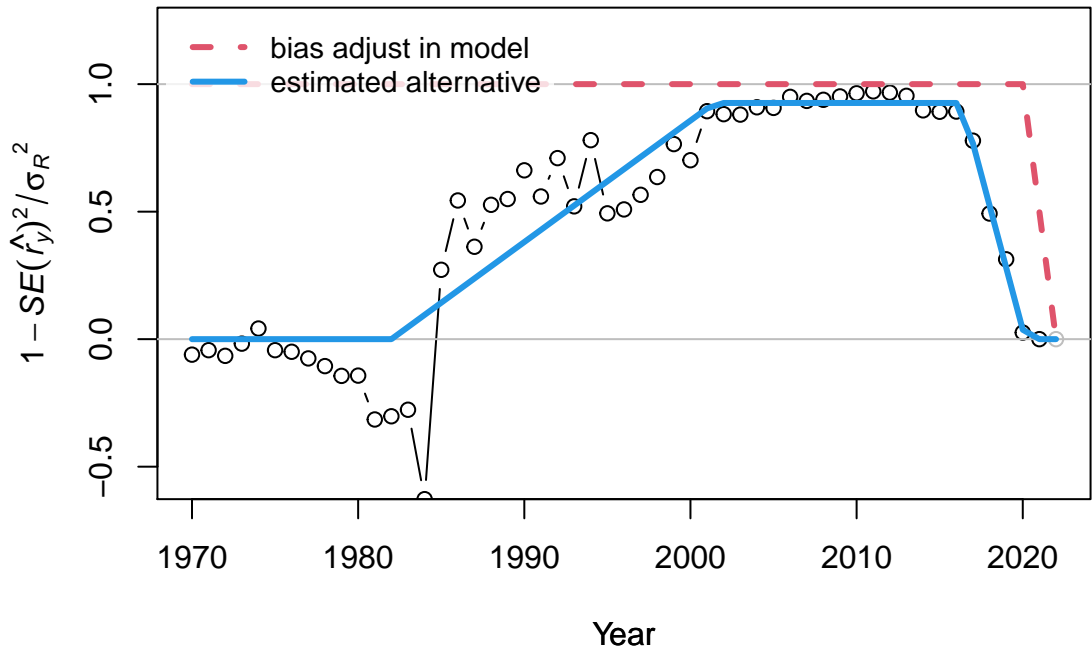
Year

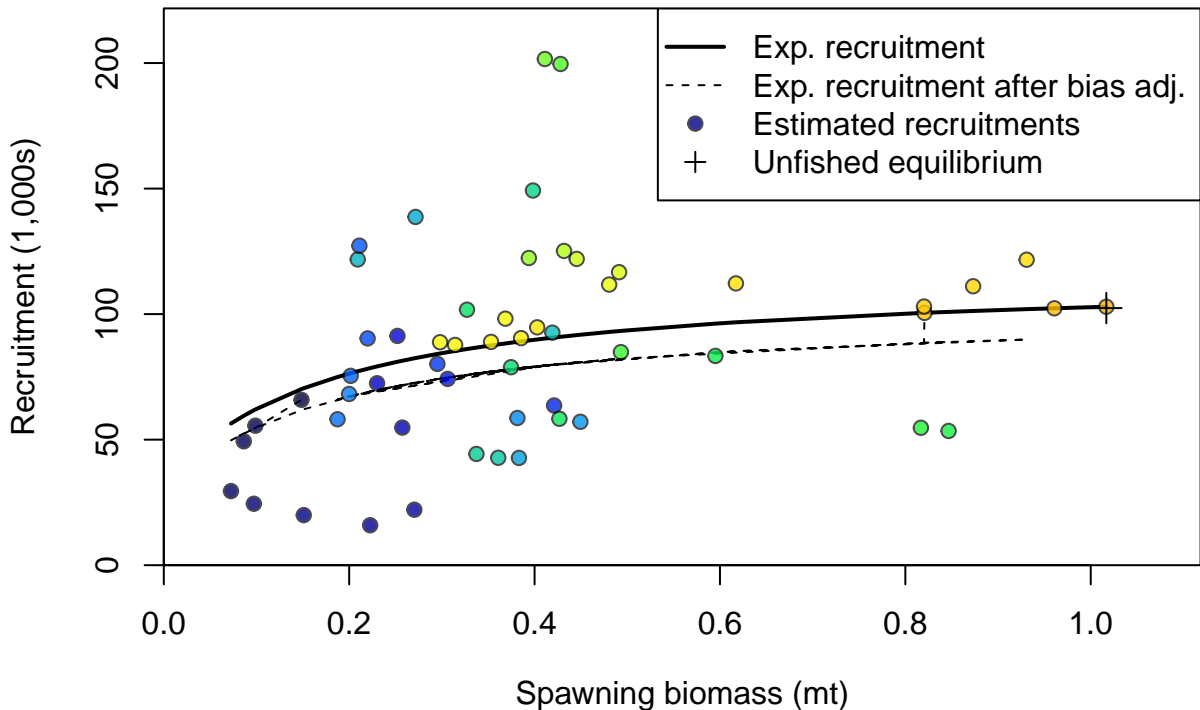


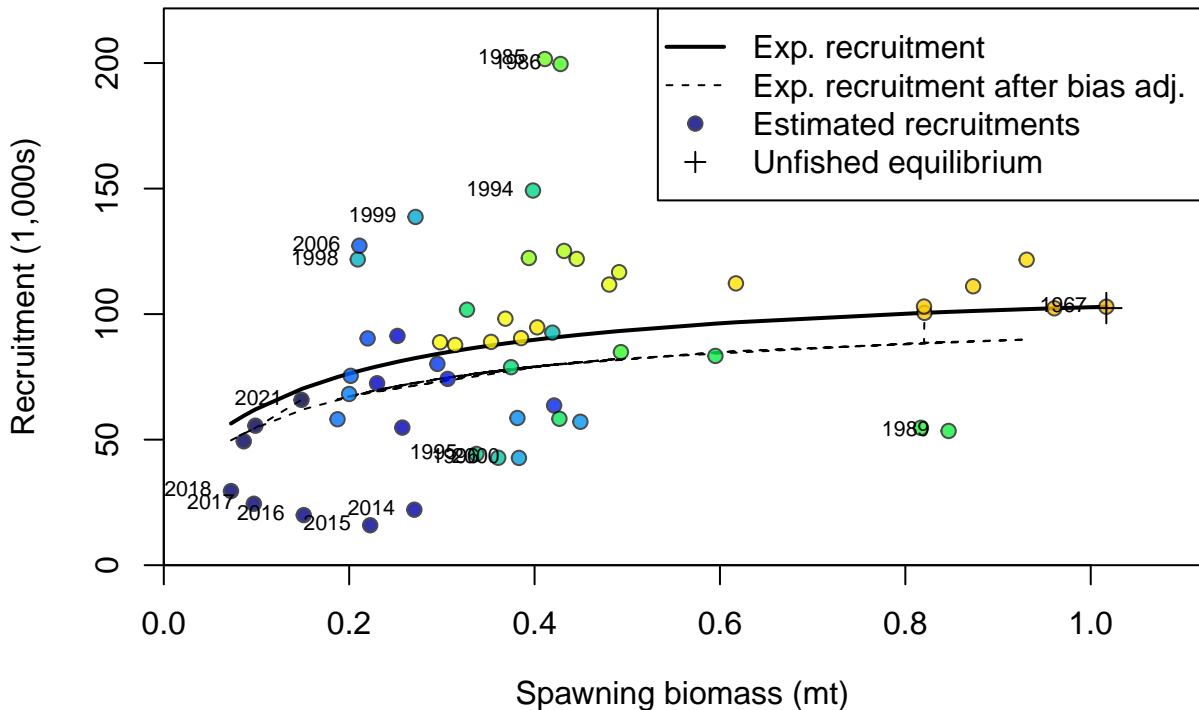
Recruitment deviation variance

Asymptotic standard error estimate

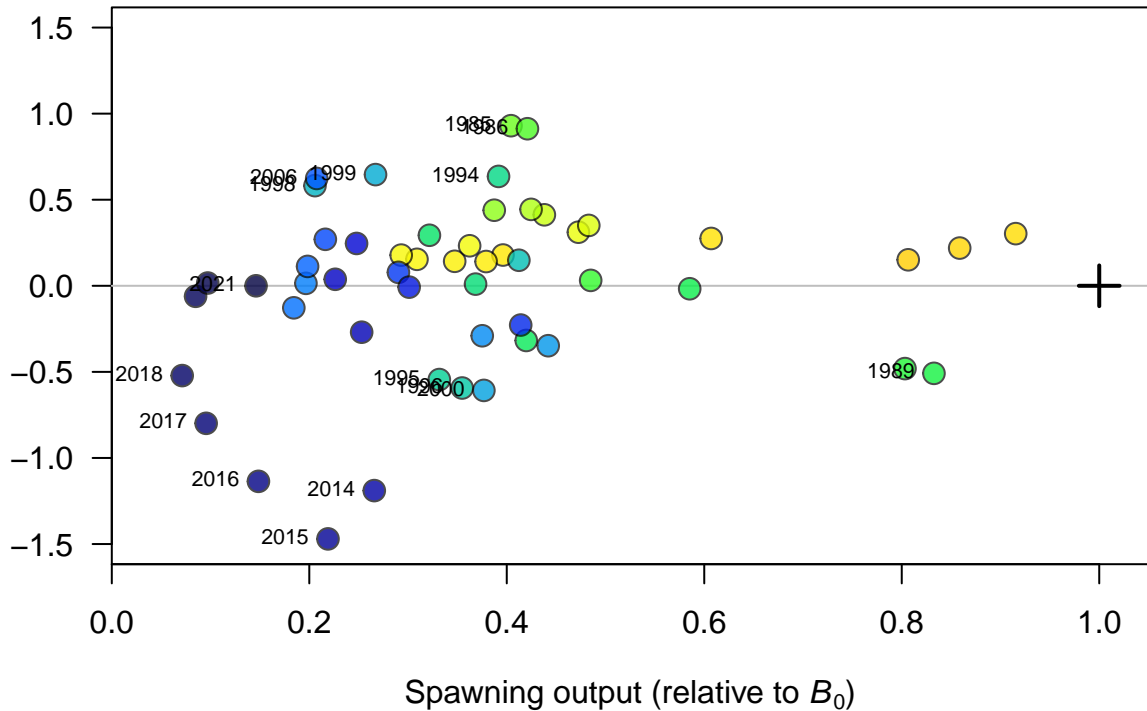


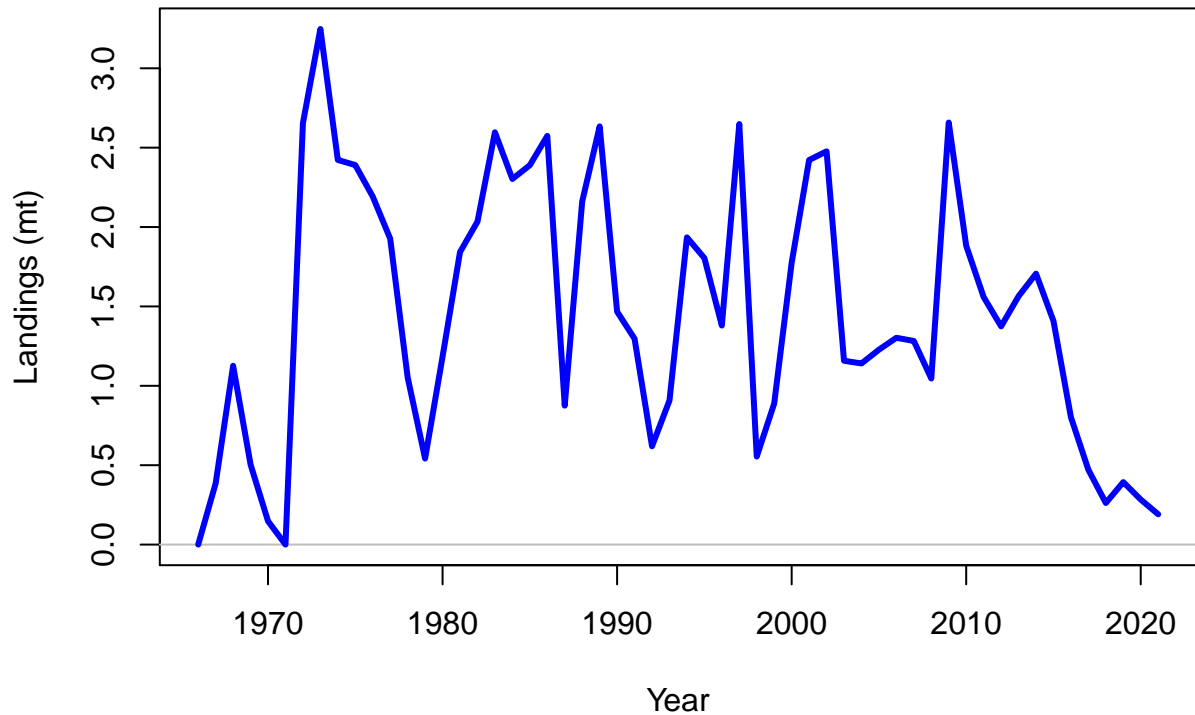


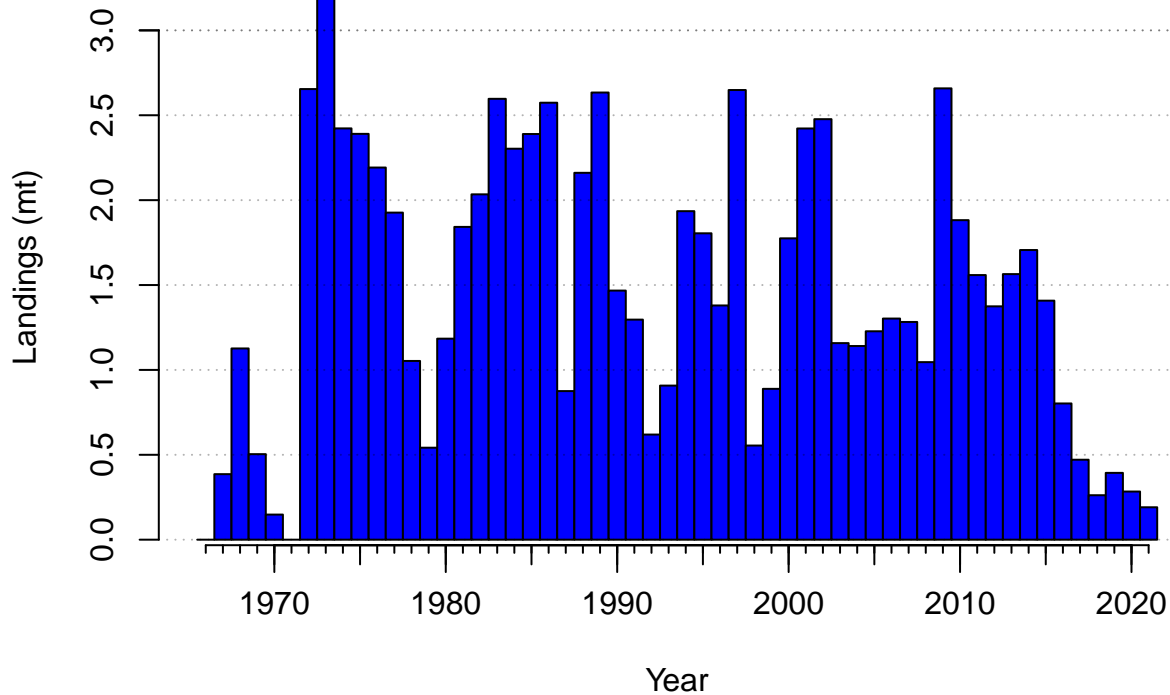




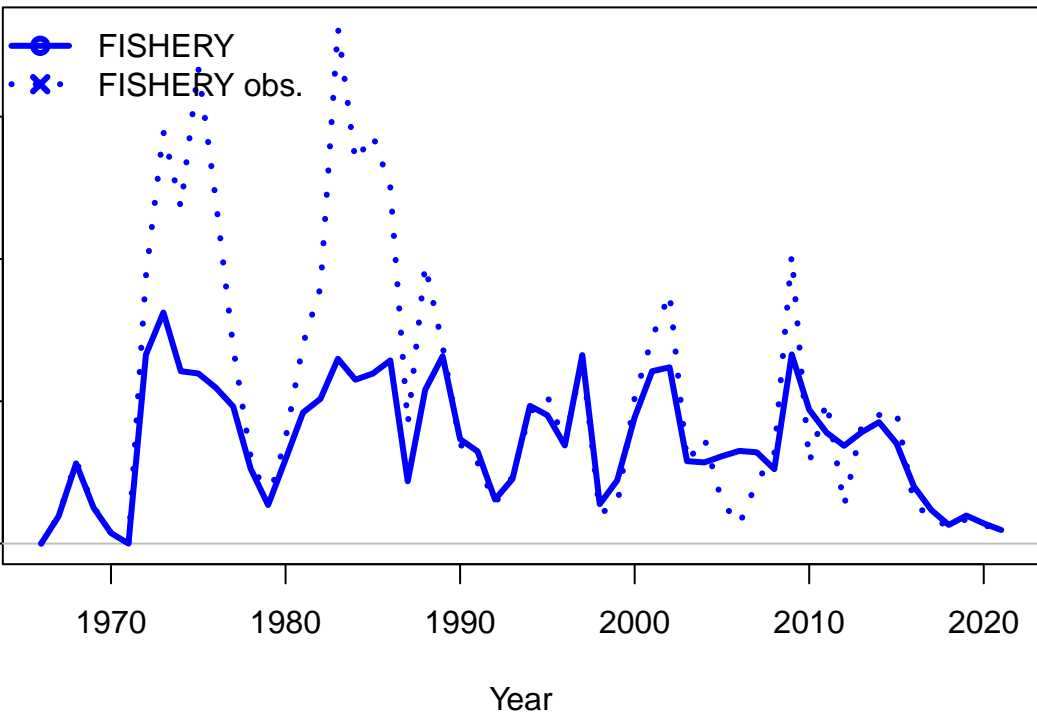
Log recruitment deviation

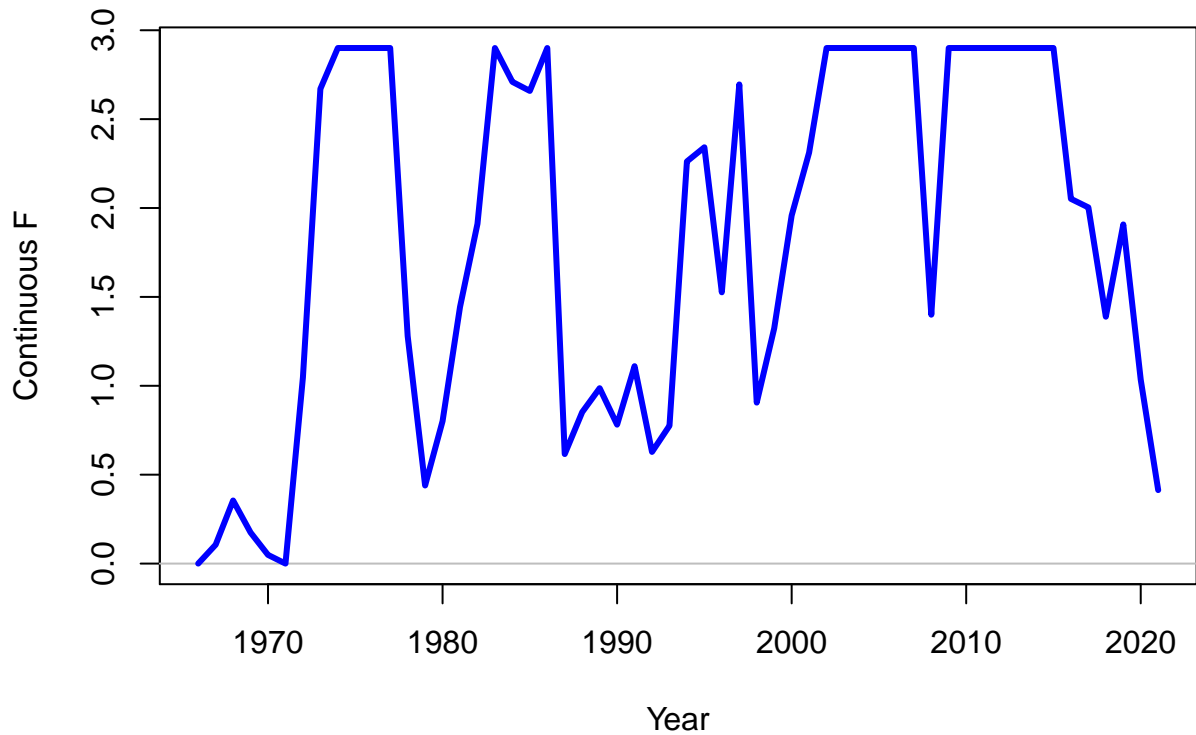




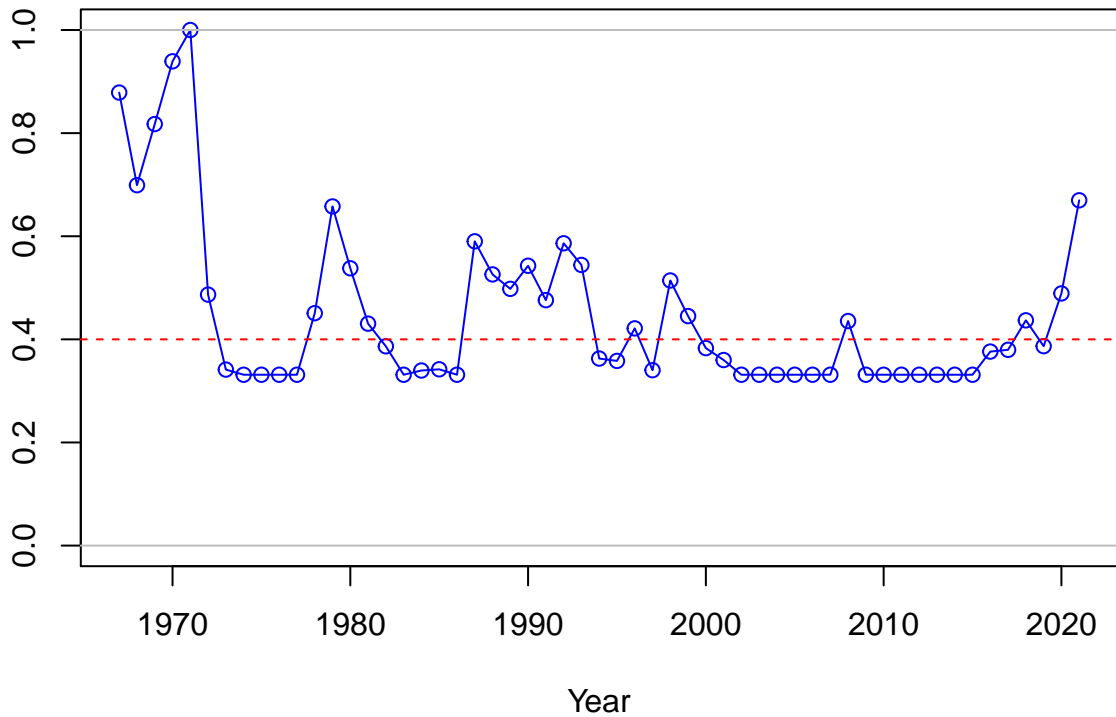


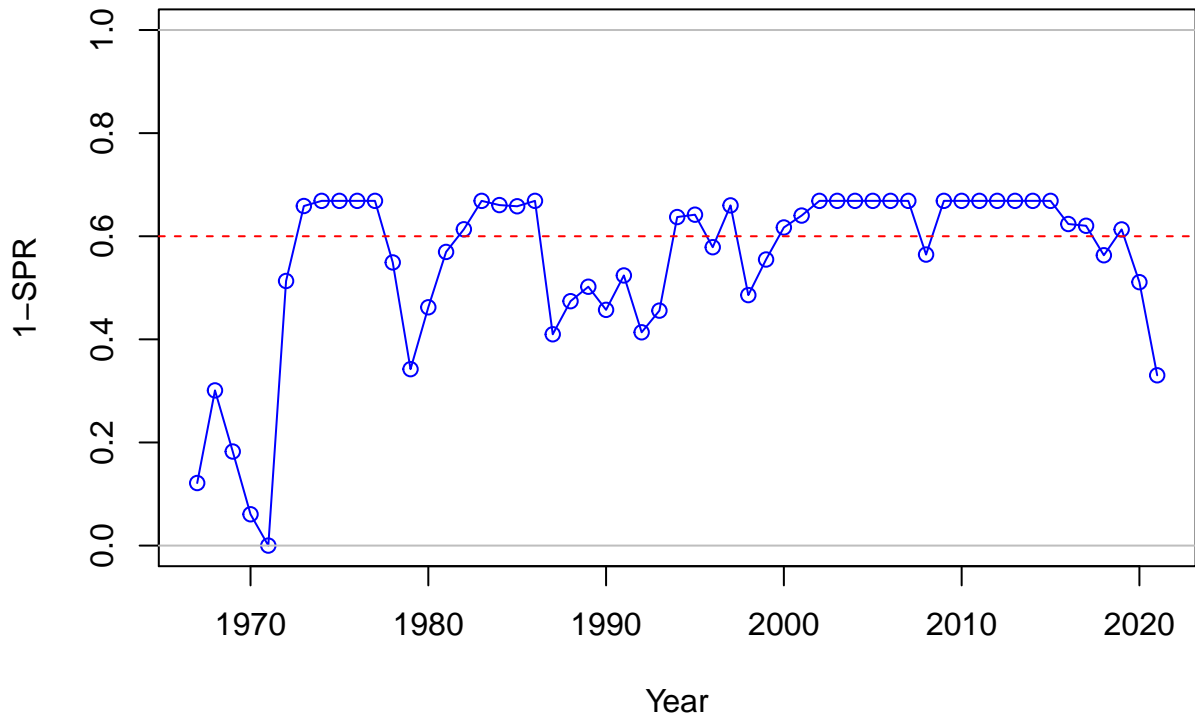
Observed and expected Landings (mt)



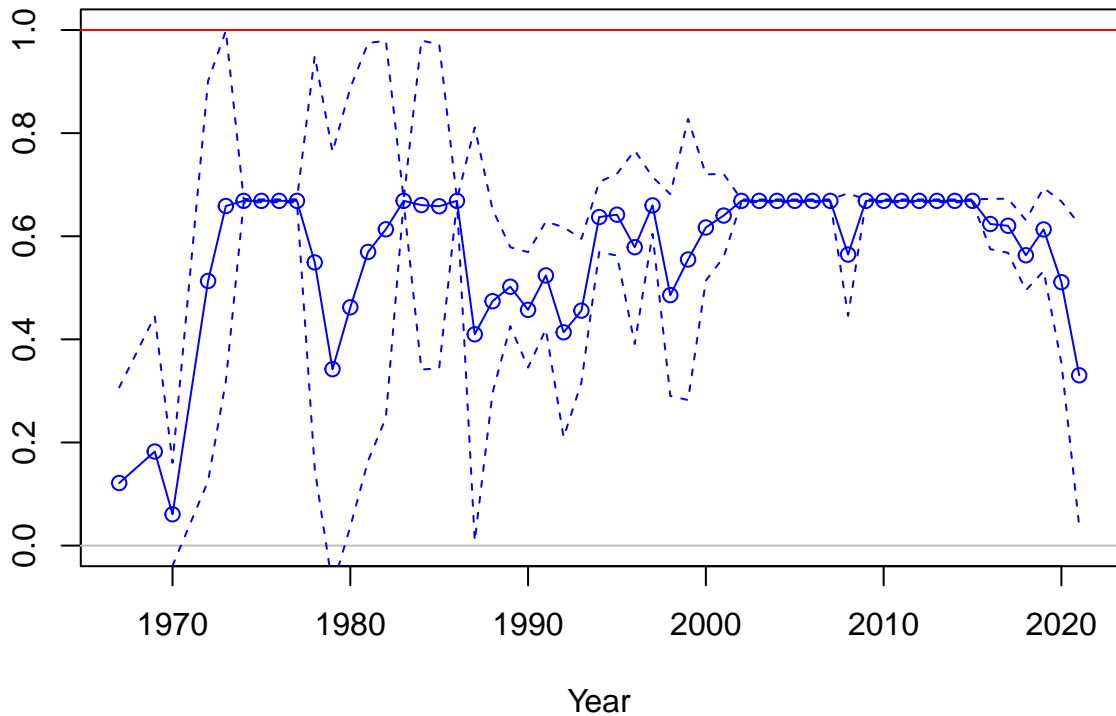


SPR

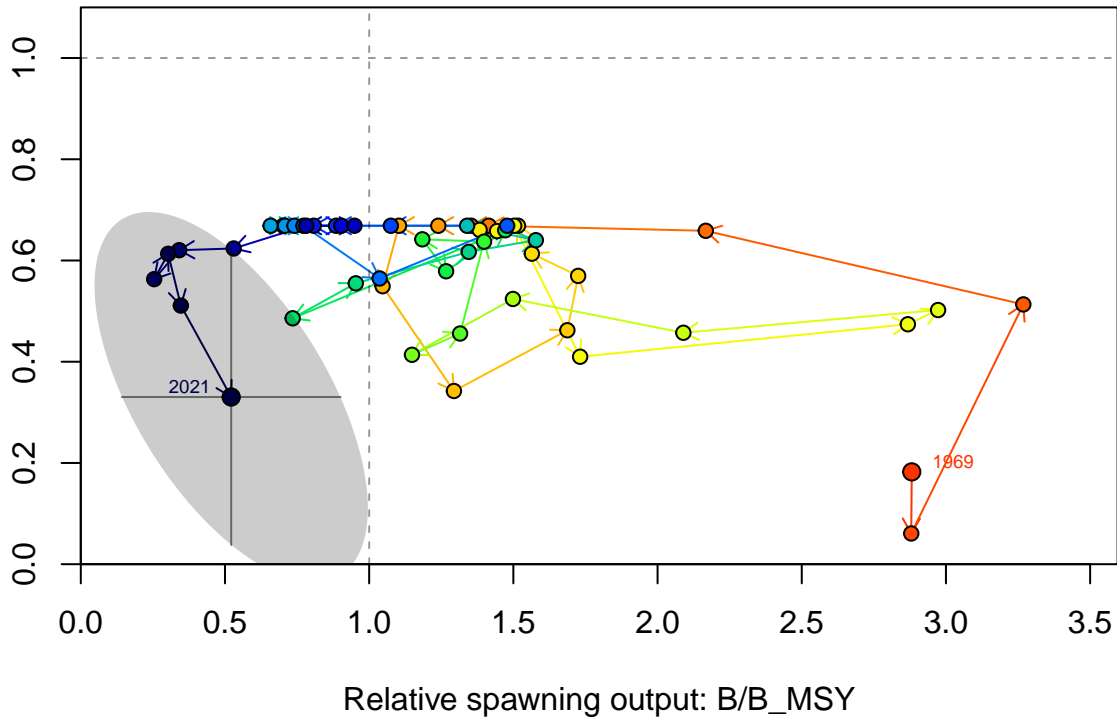




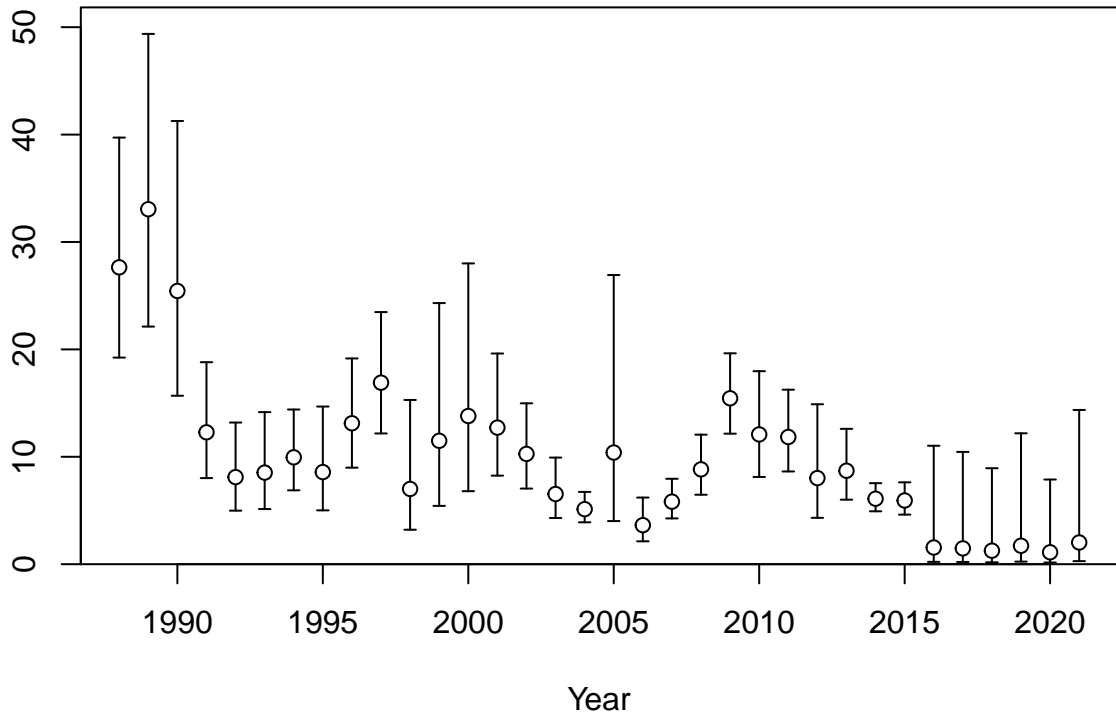
Fishing intensity: 1-SPR



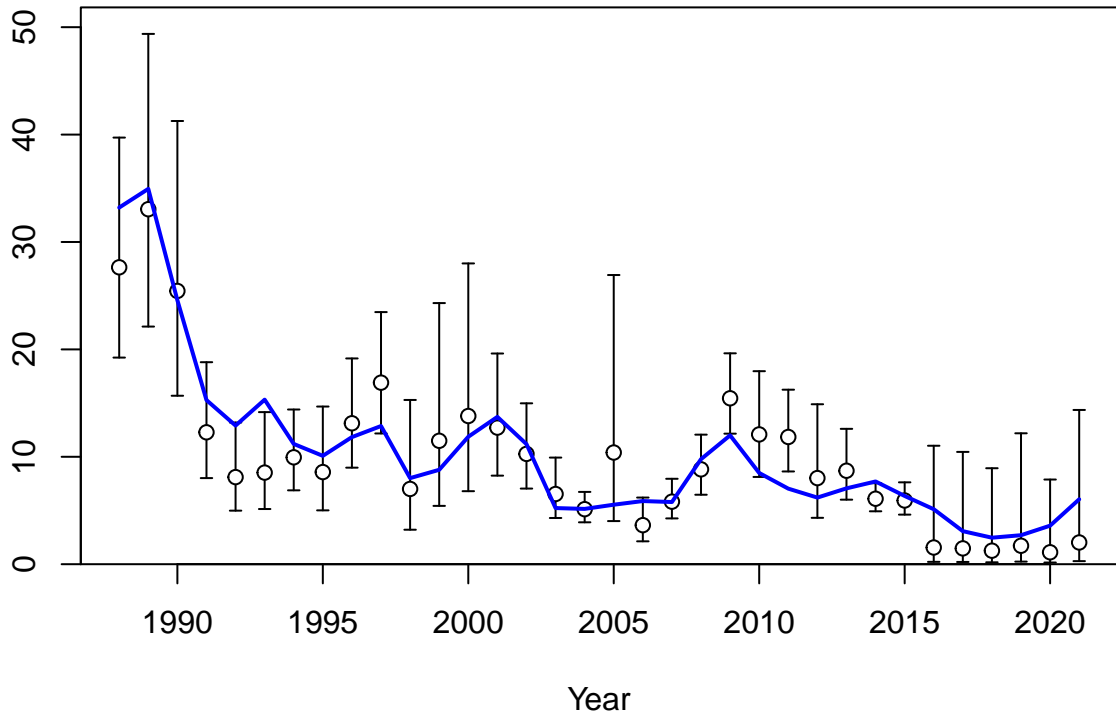
Fishing intensity: 1-SPR

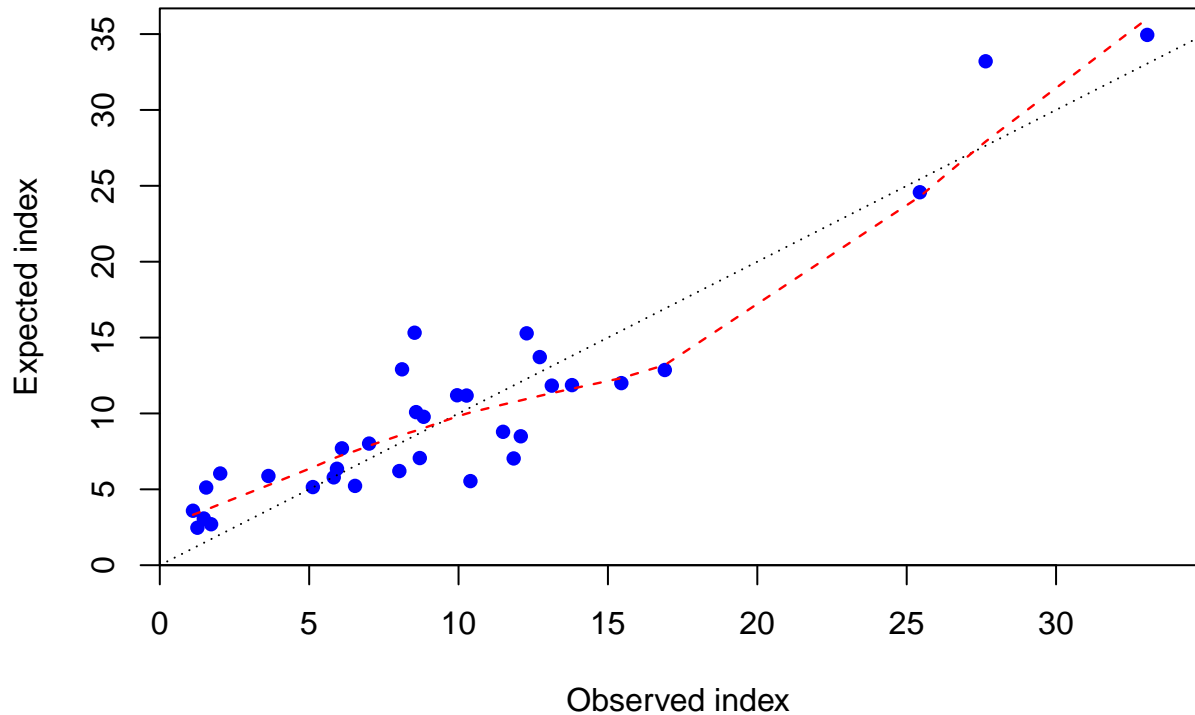


Index

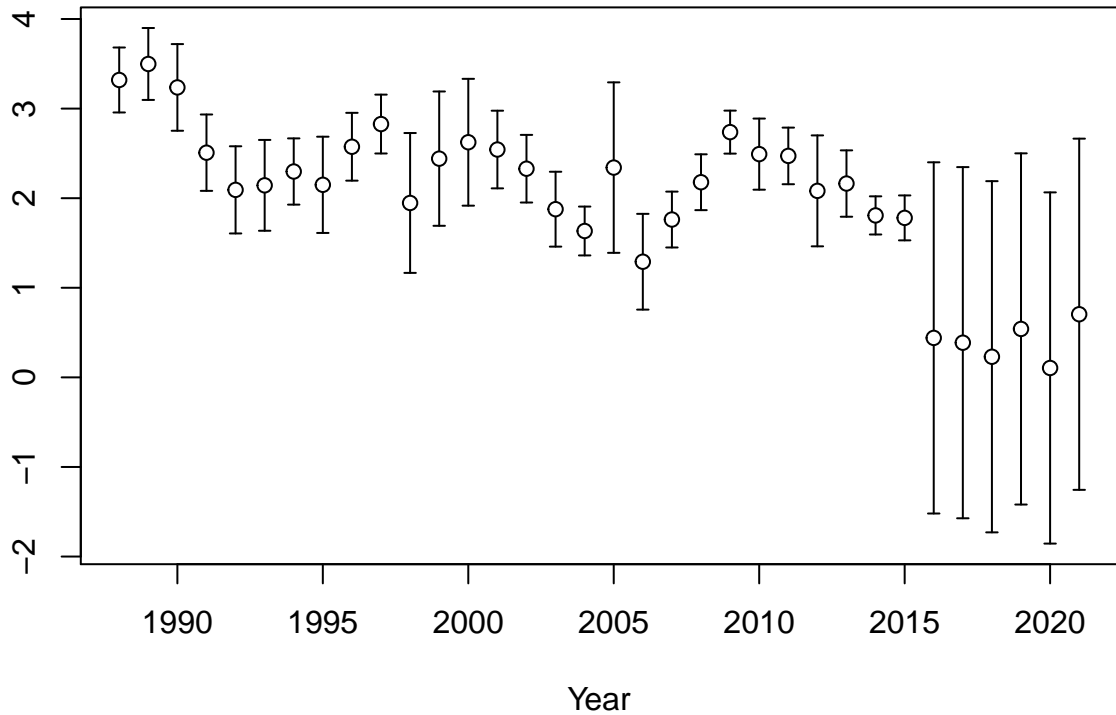


Index

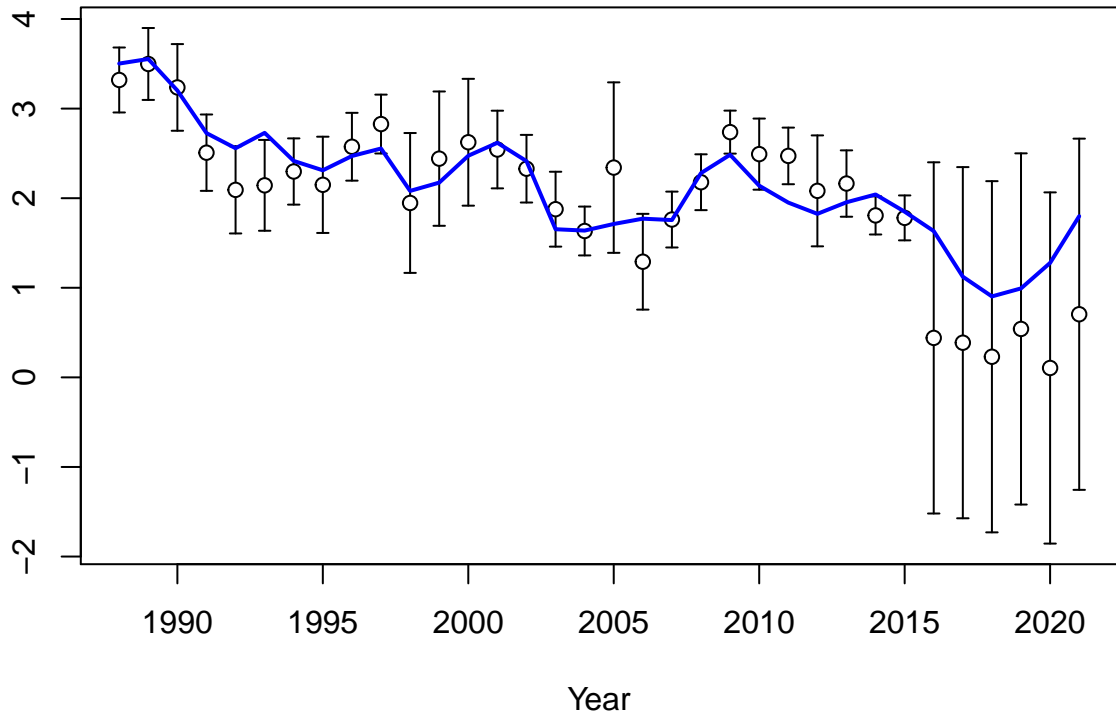


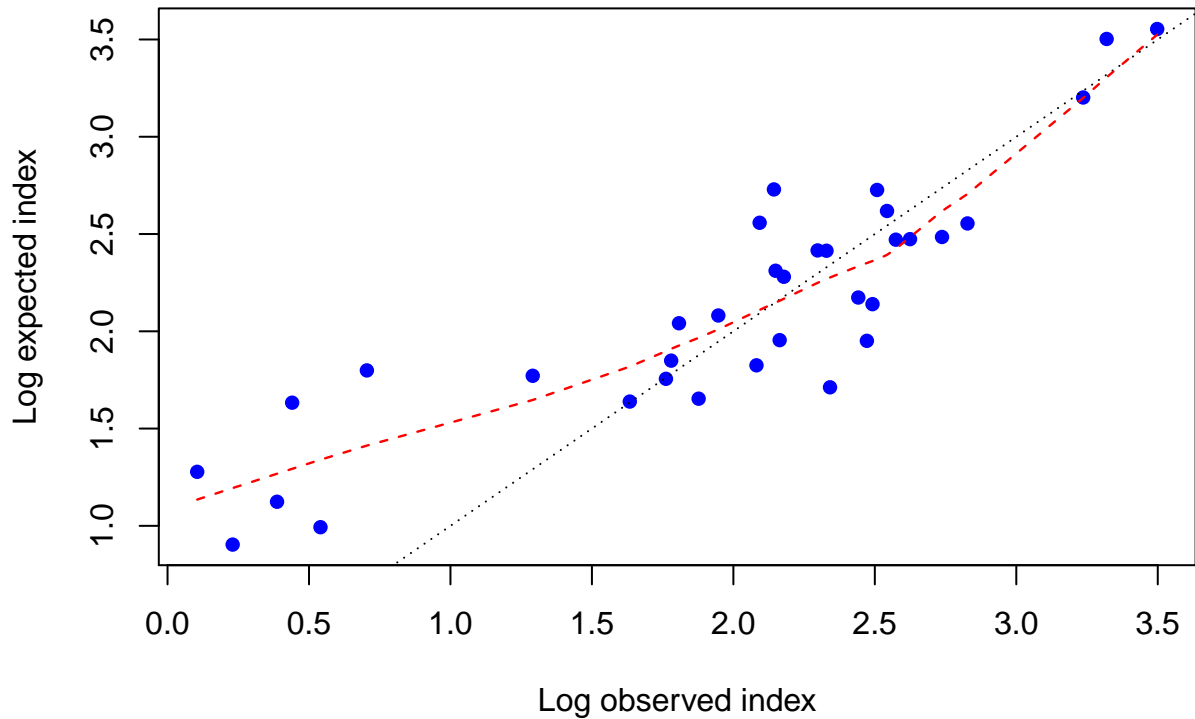


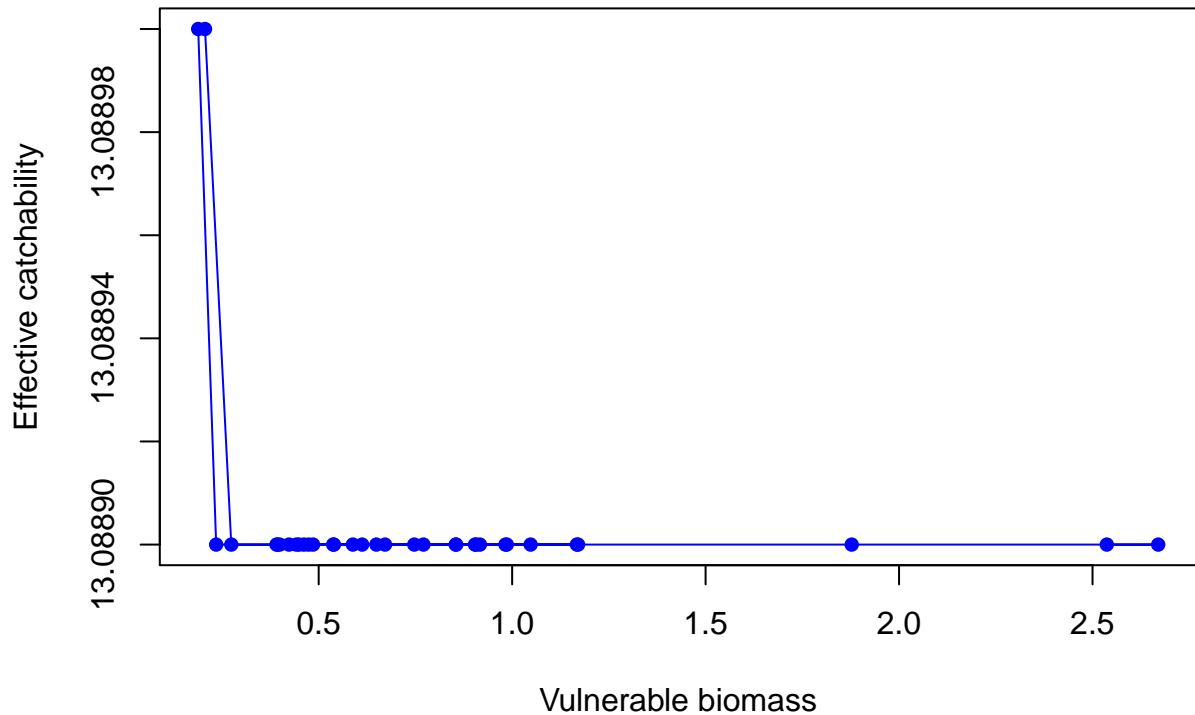
Log index

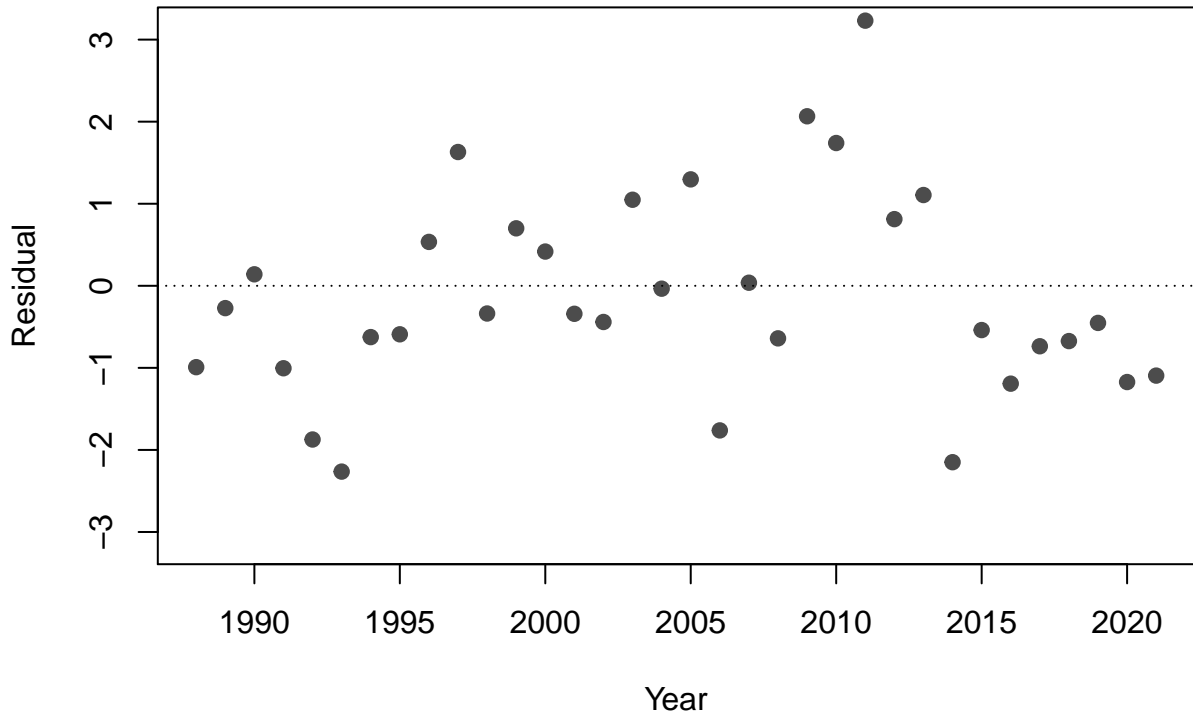


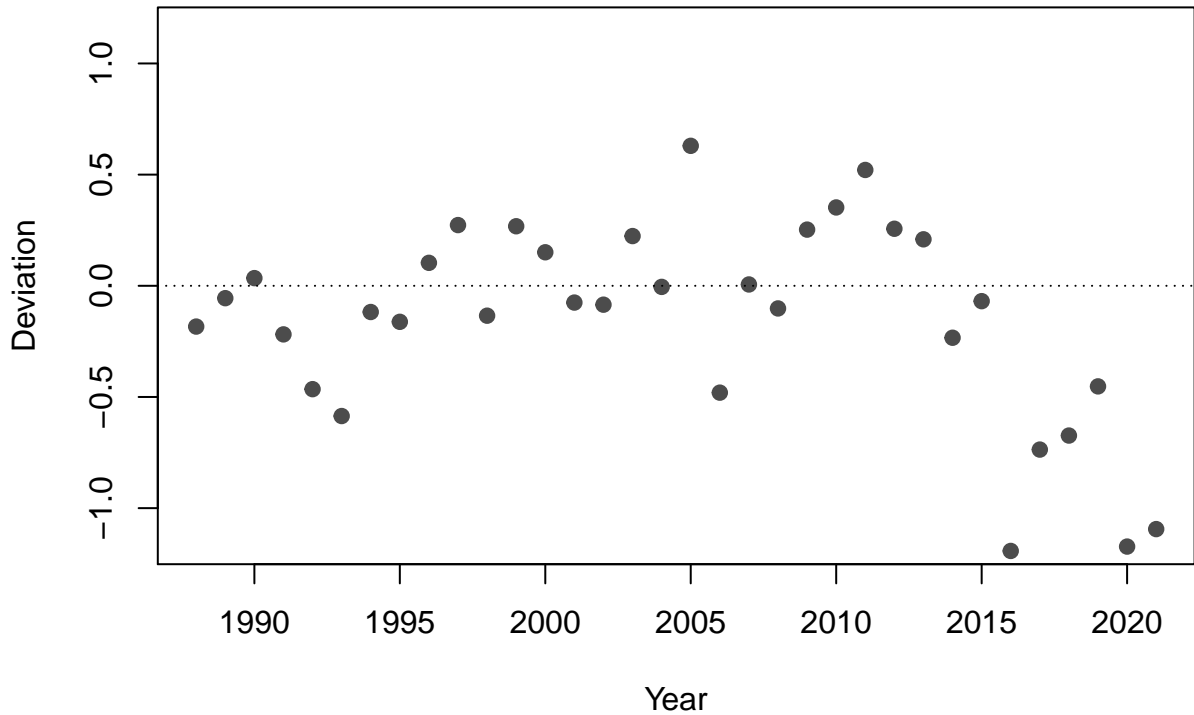
Log index

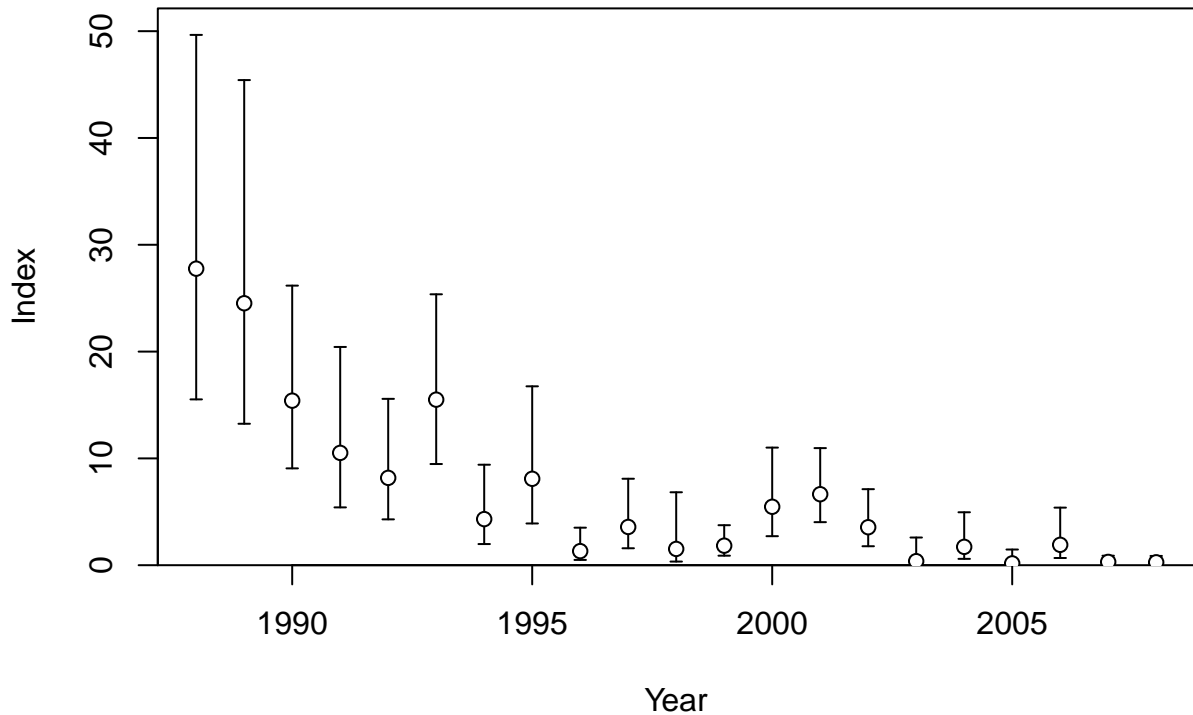


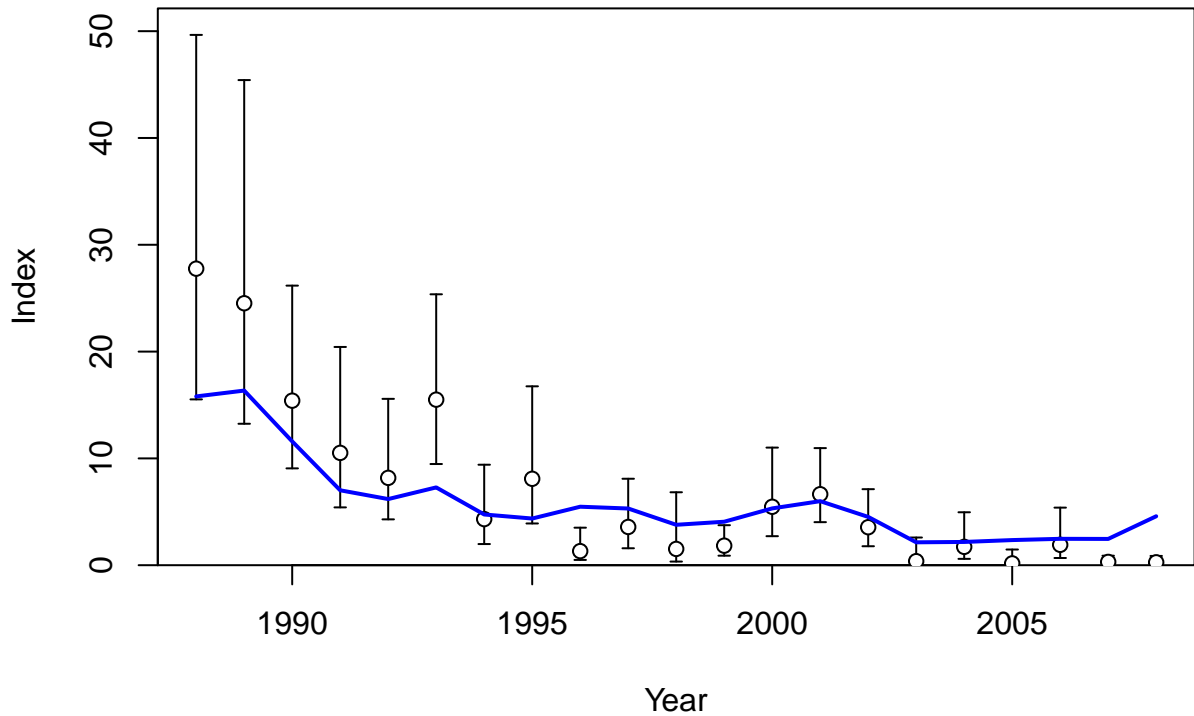


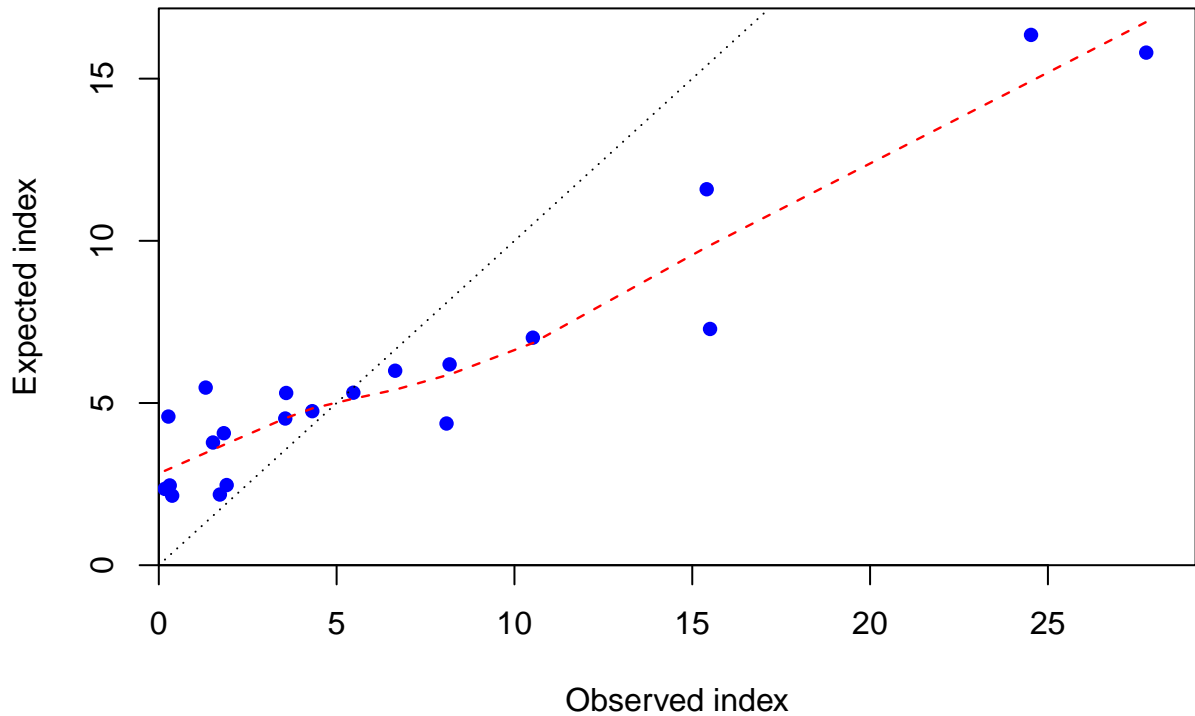


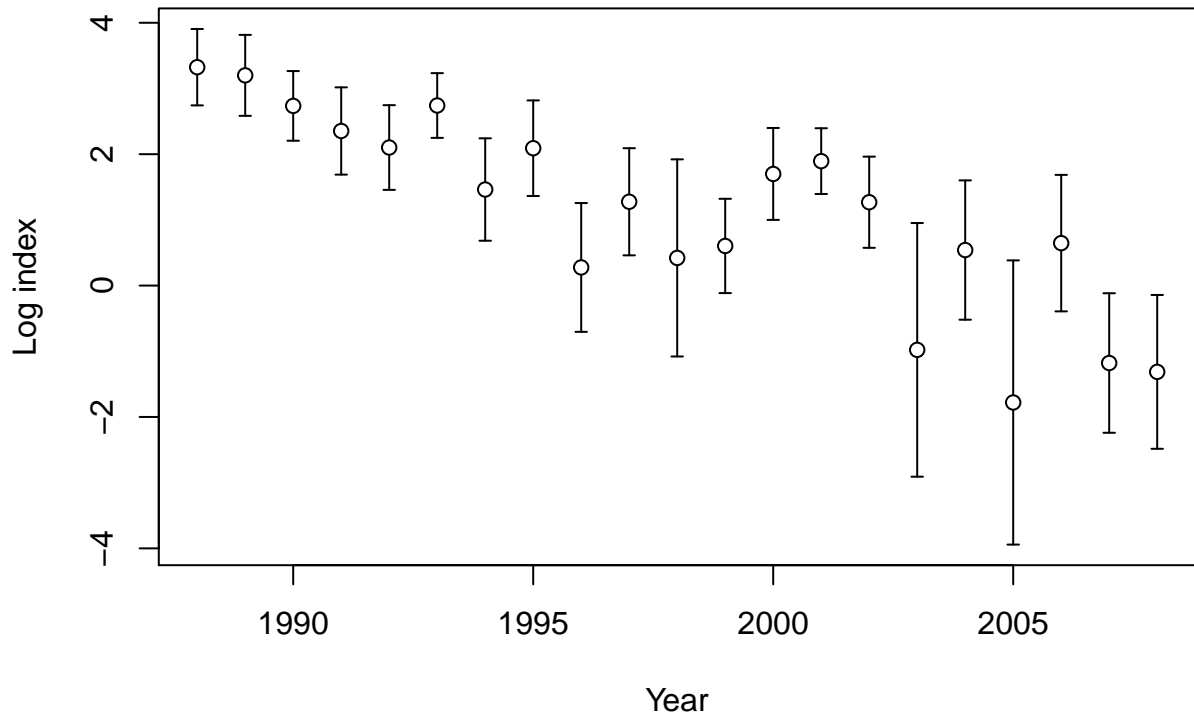


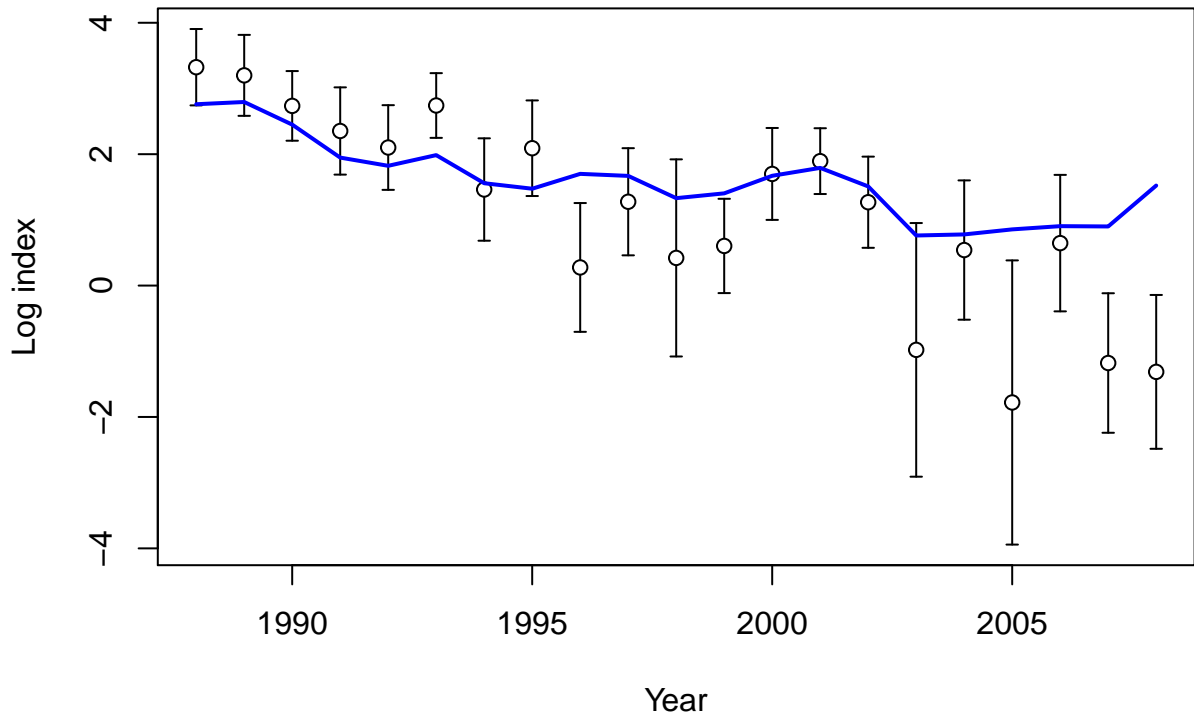


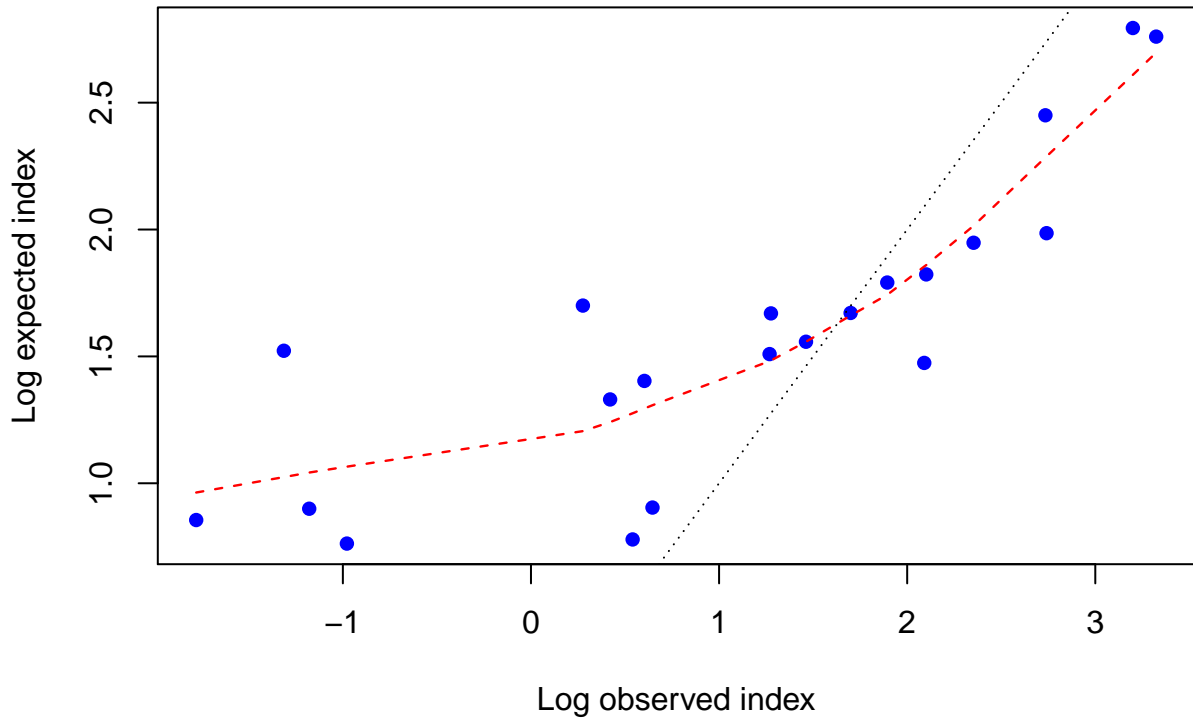


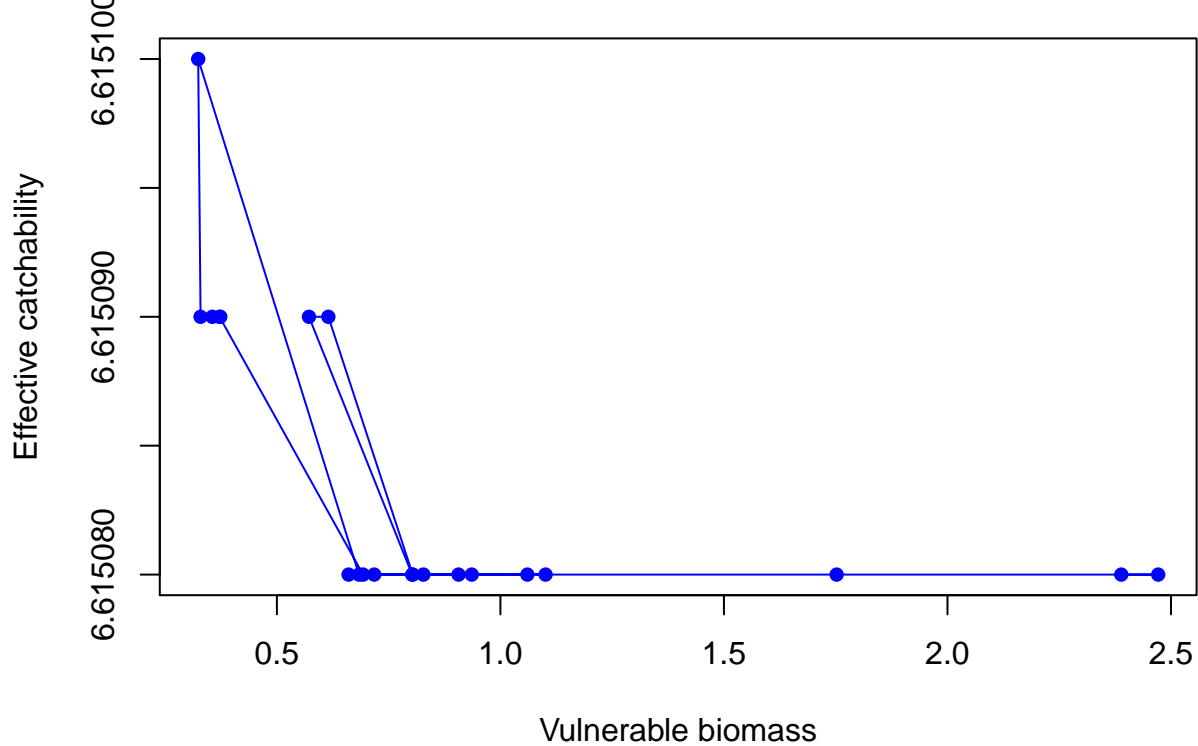


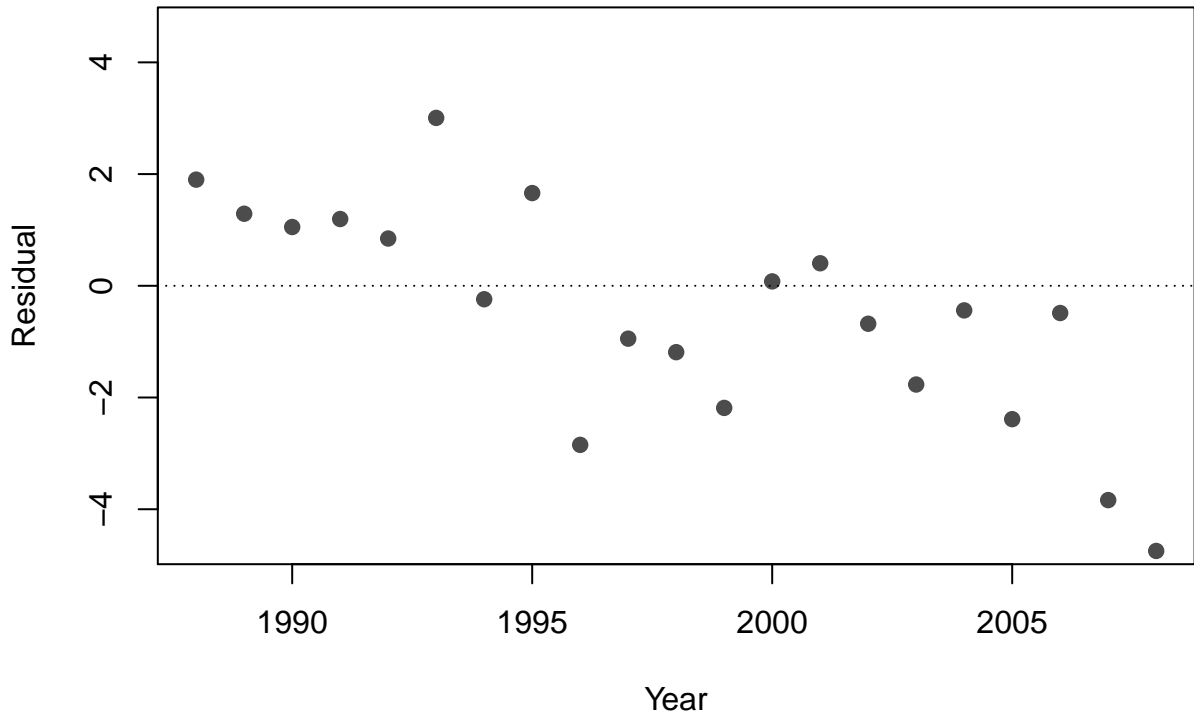


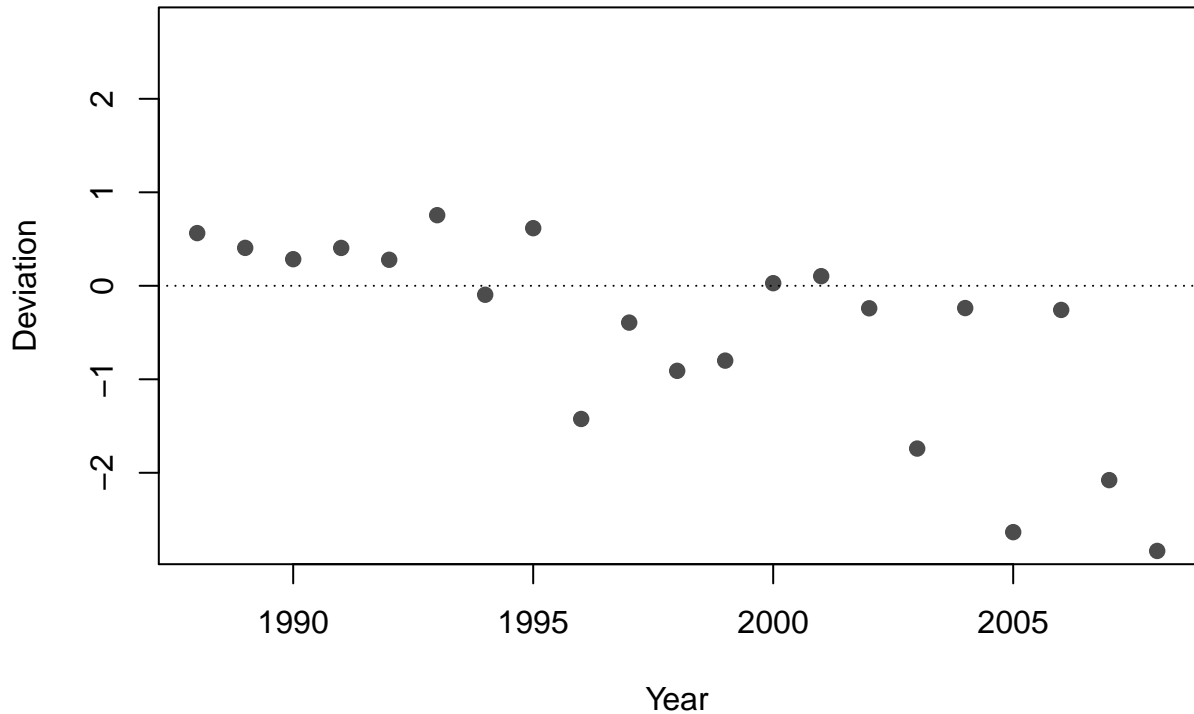




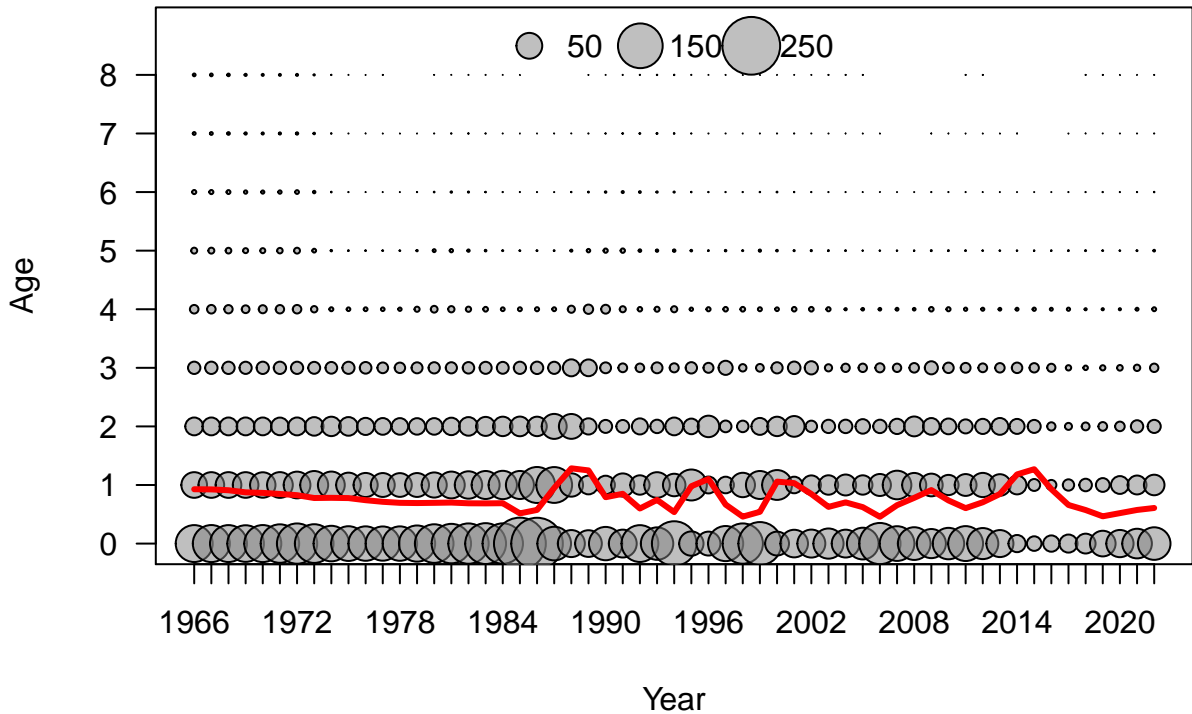




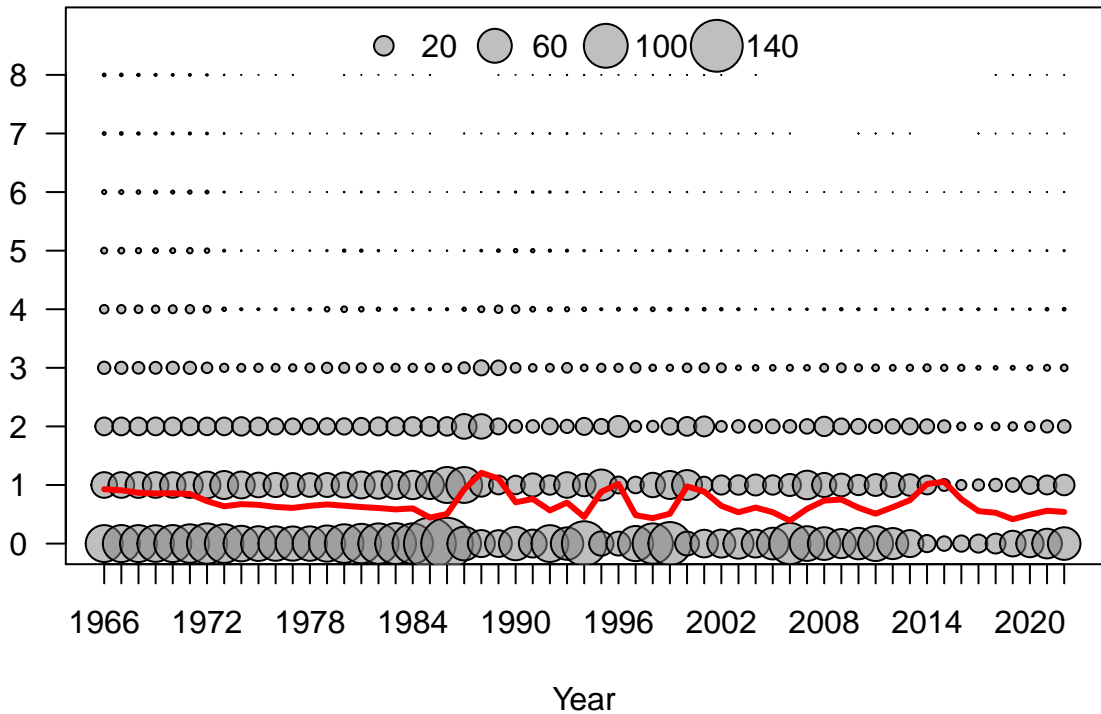


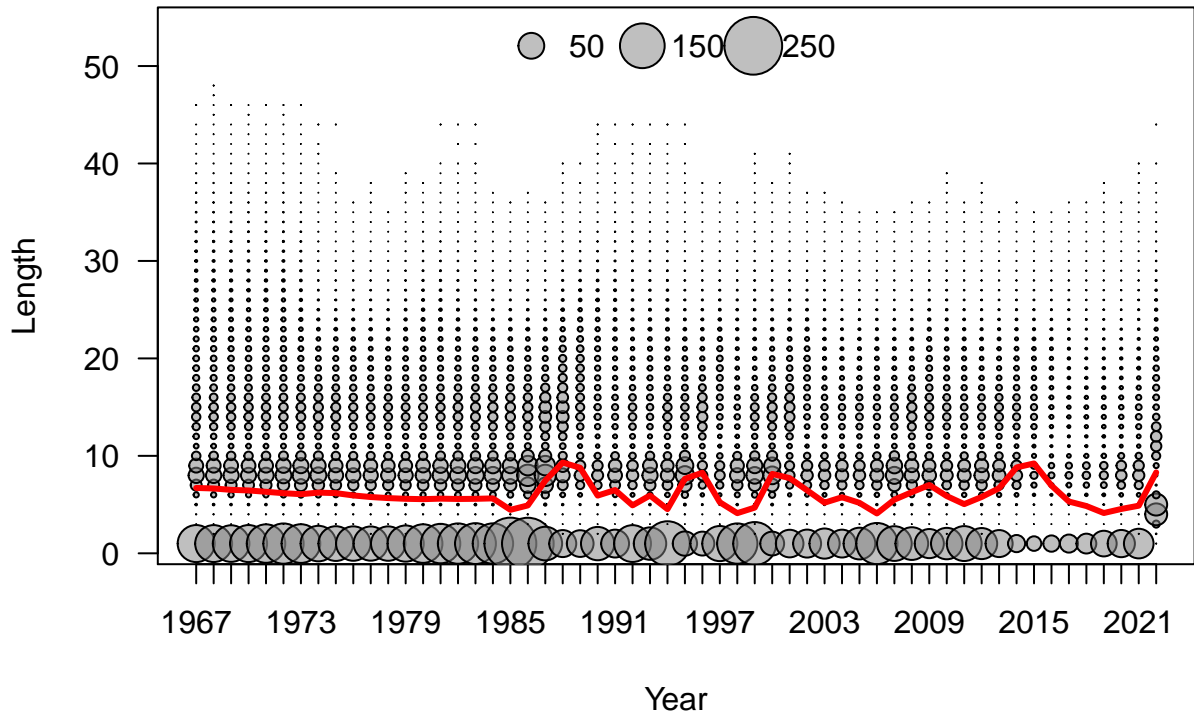


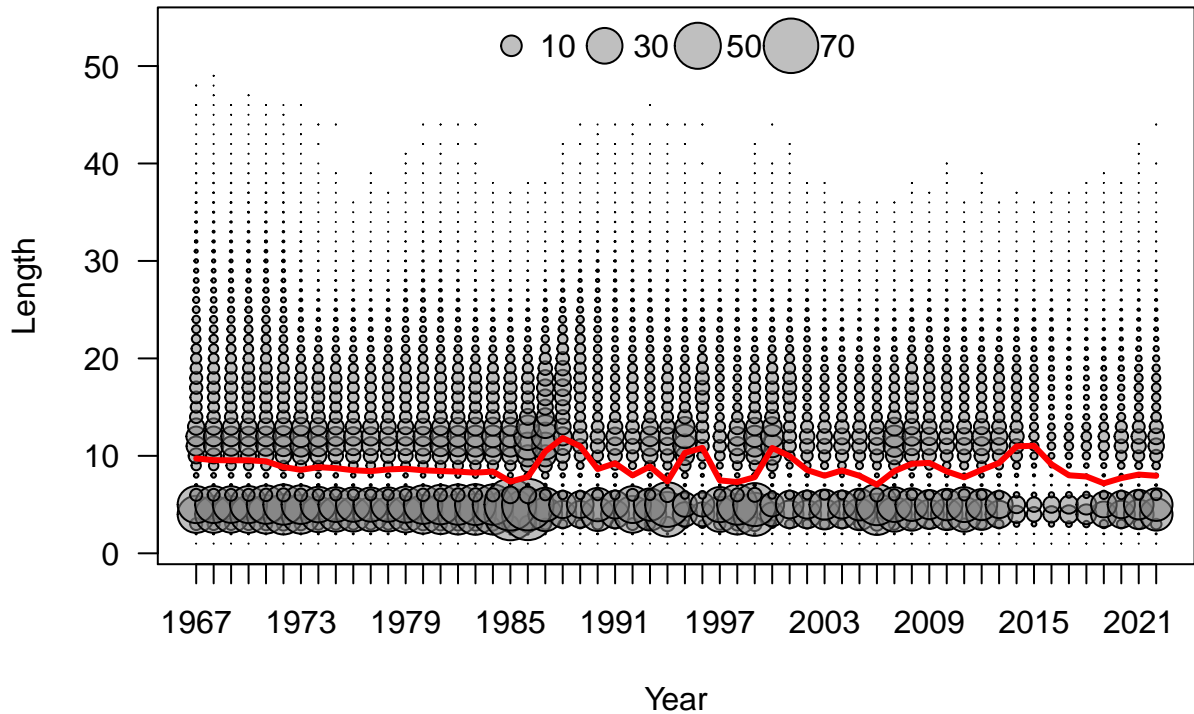


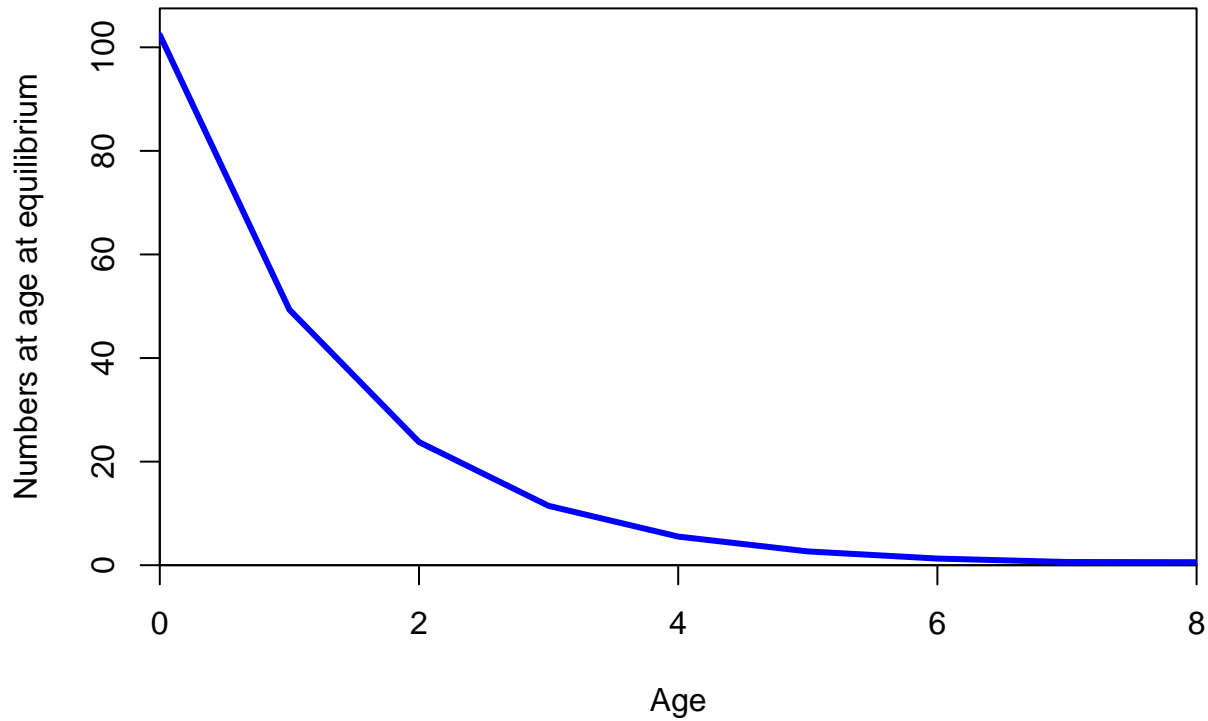


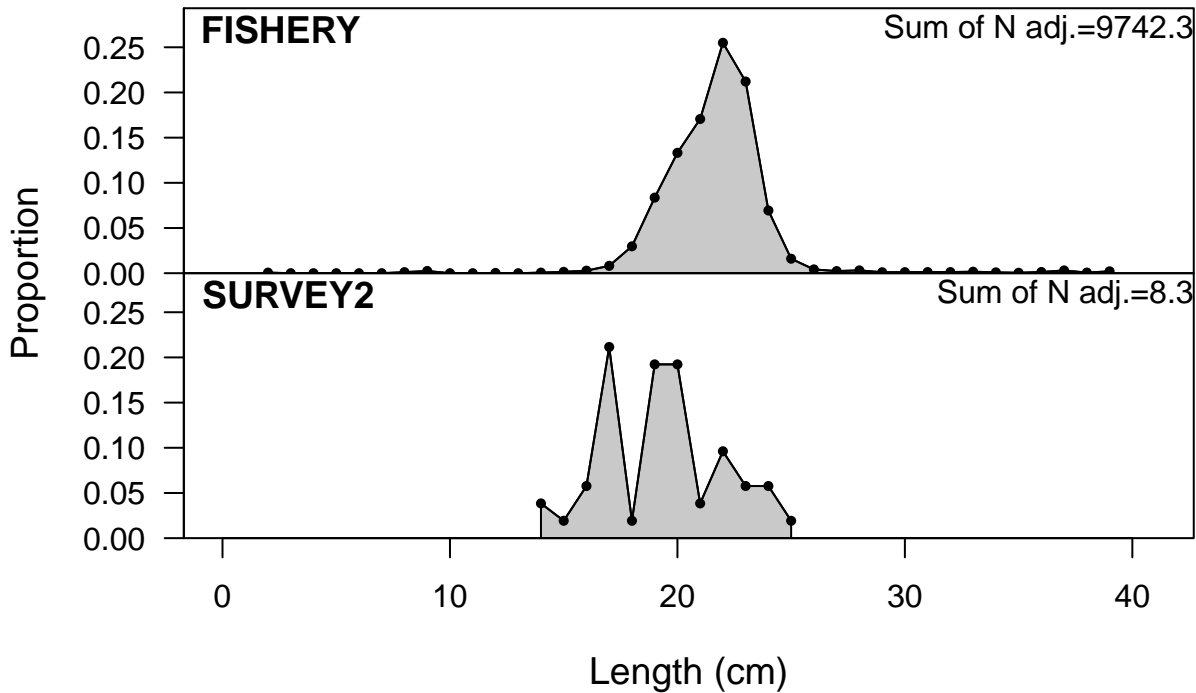
Age

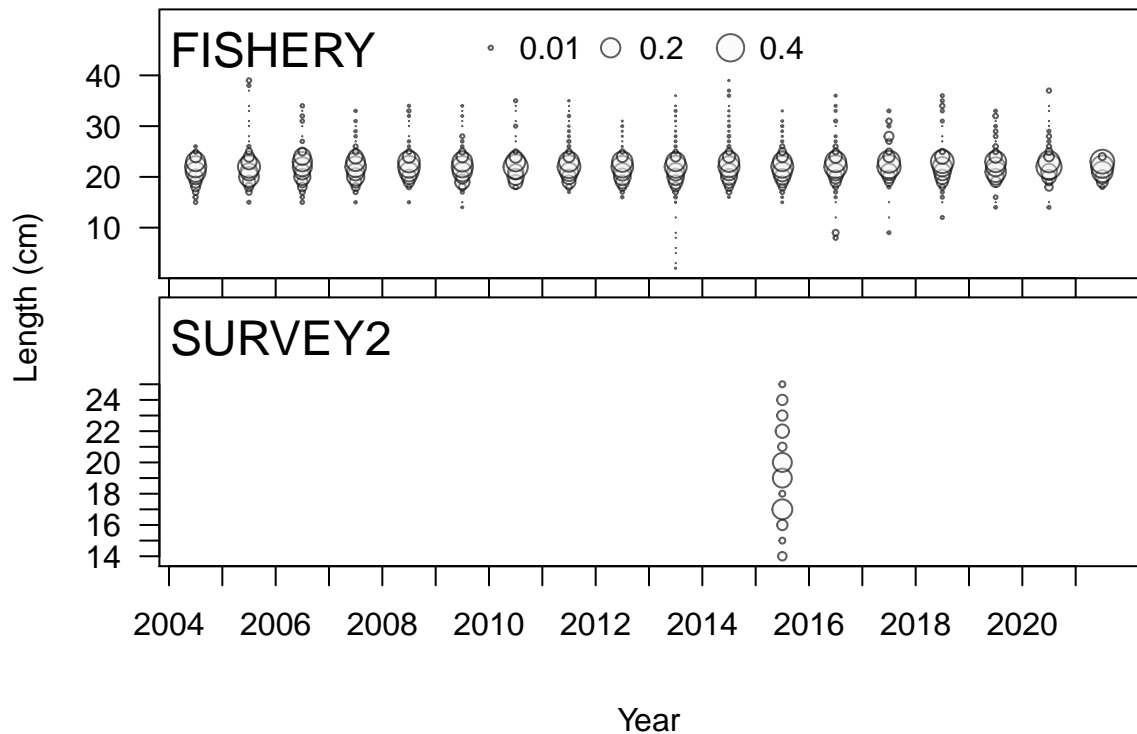


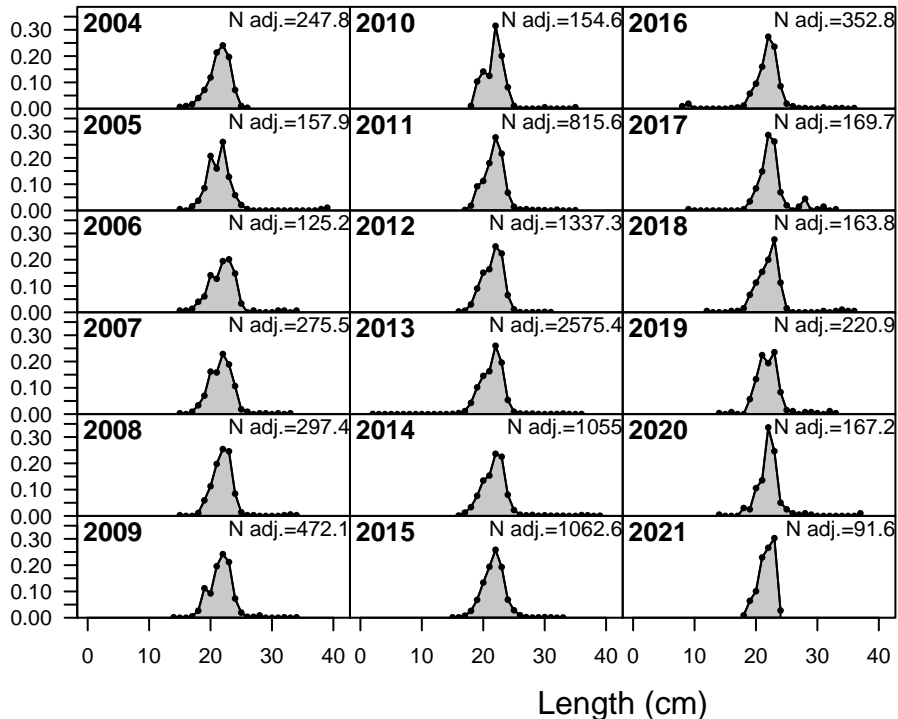


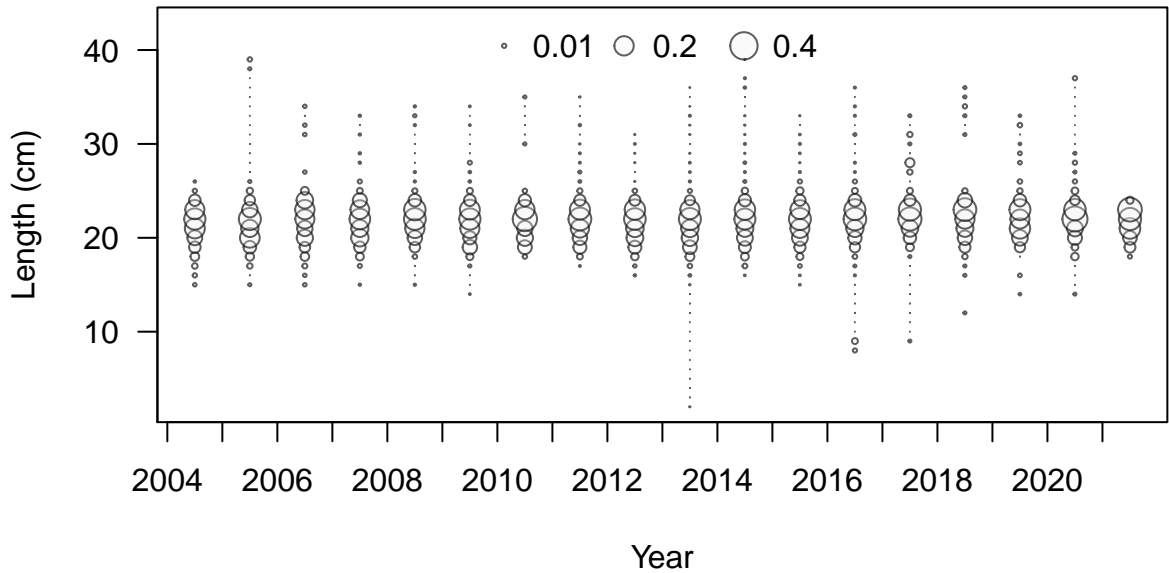




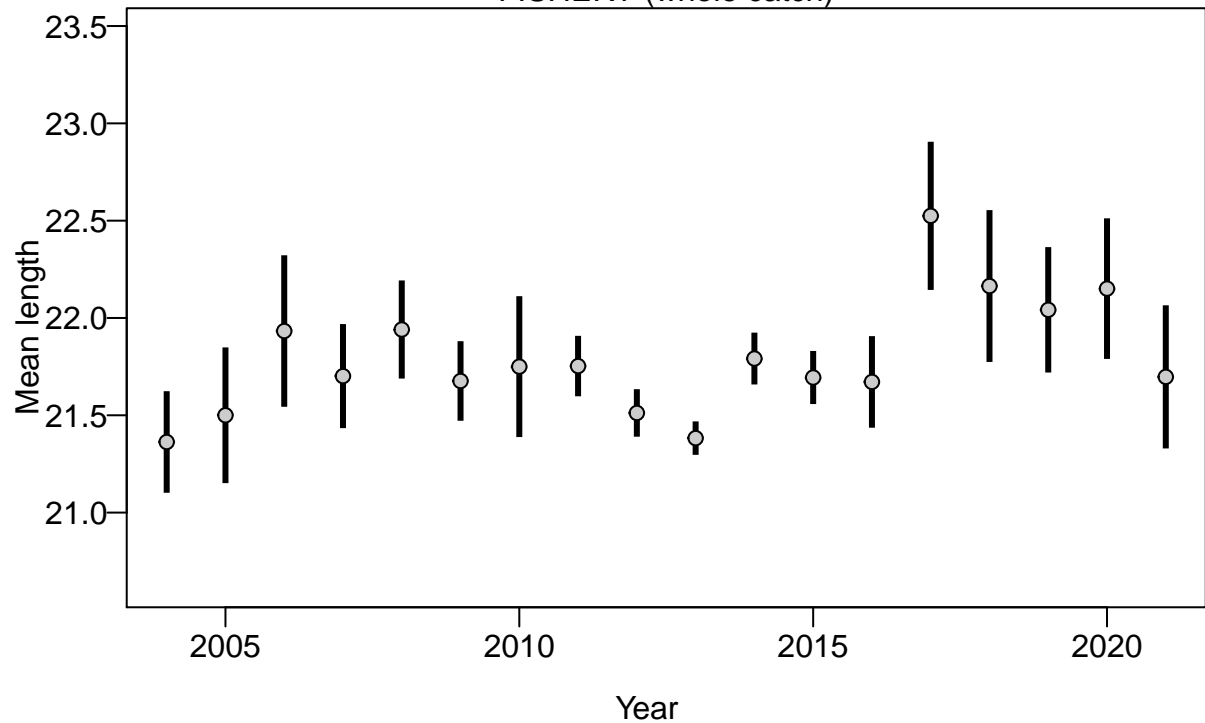


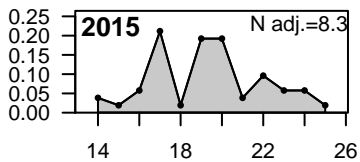






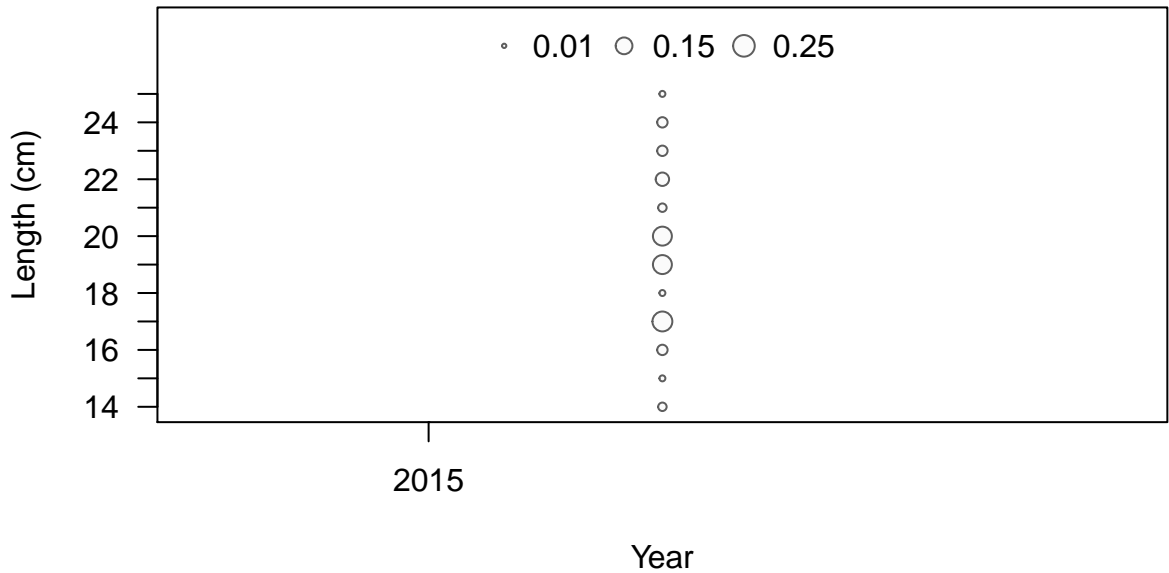
FISHERY (whole catch)

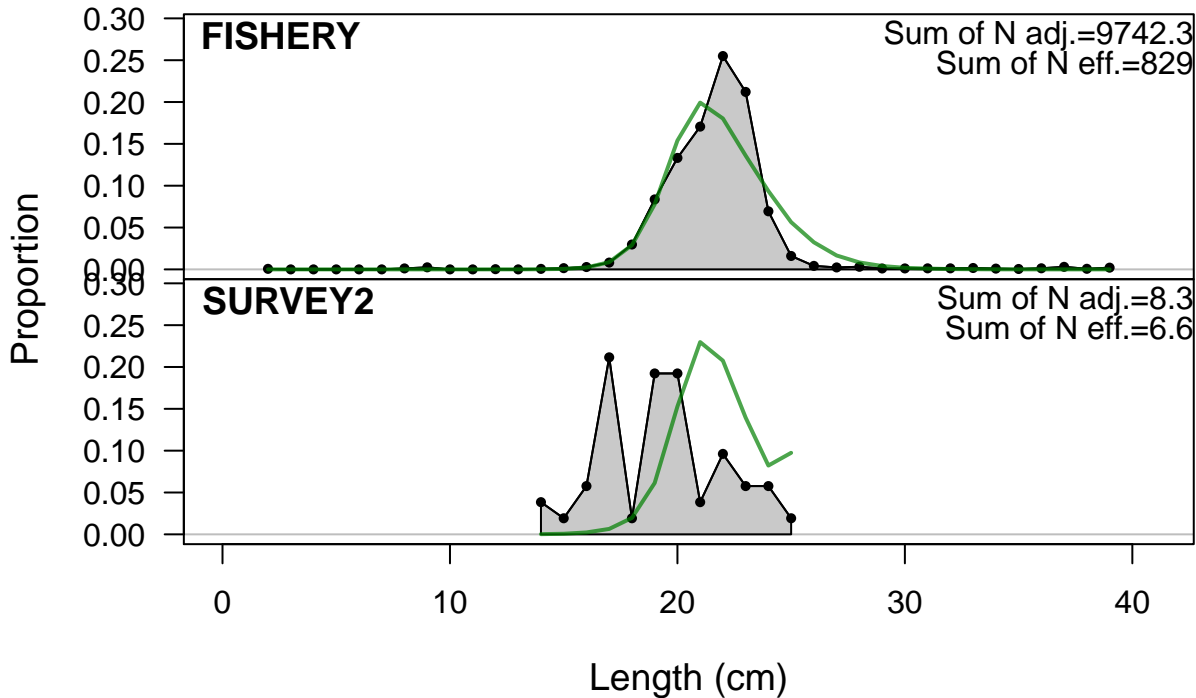


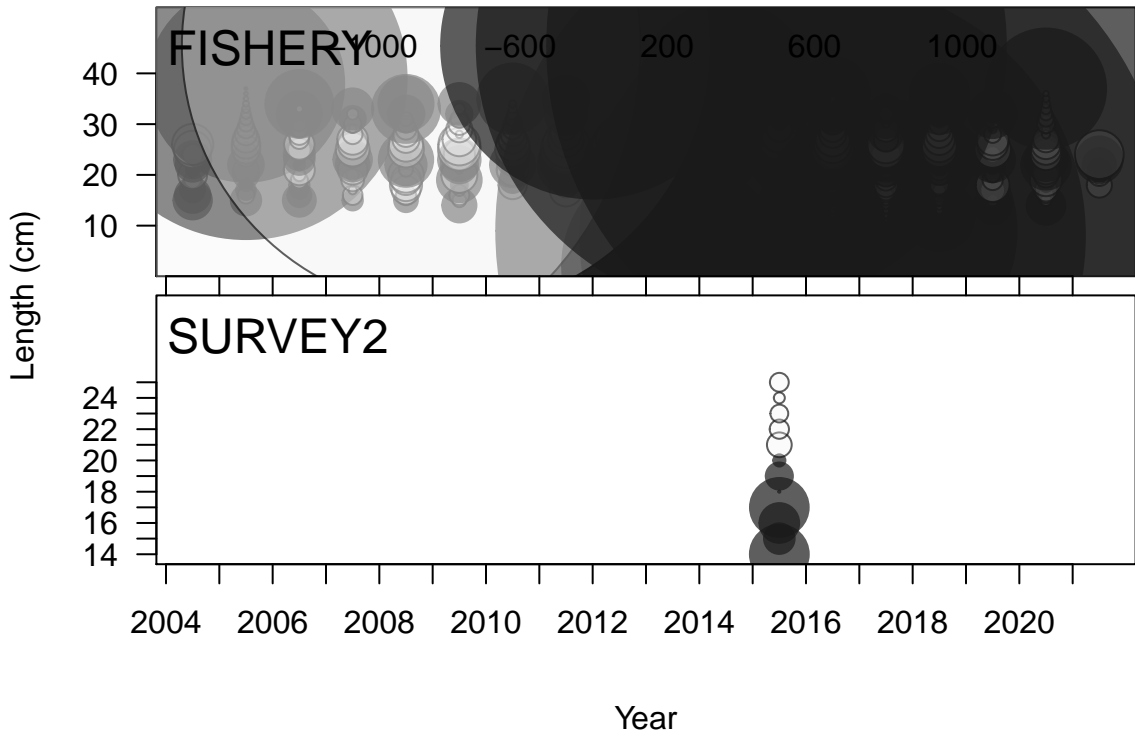


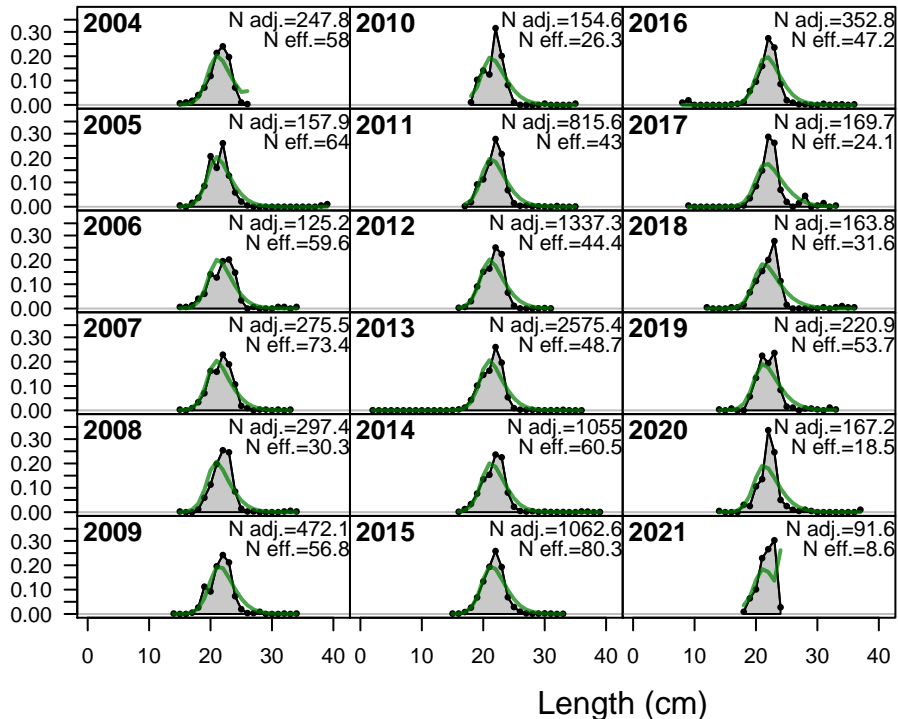
Proportion

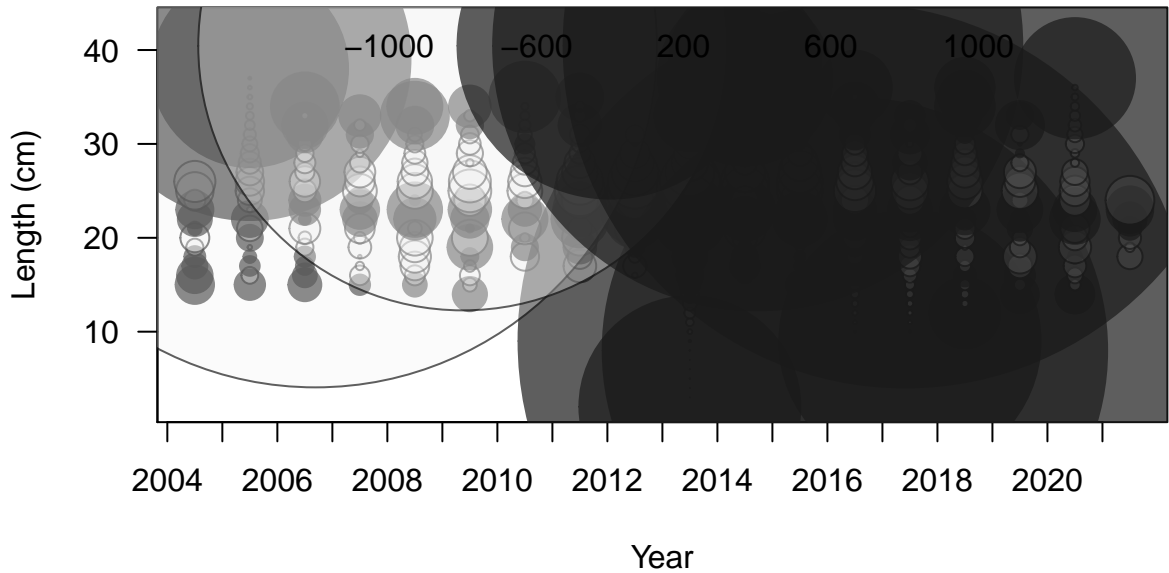
Length (cm)



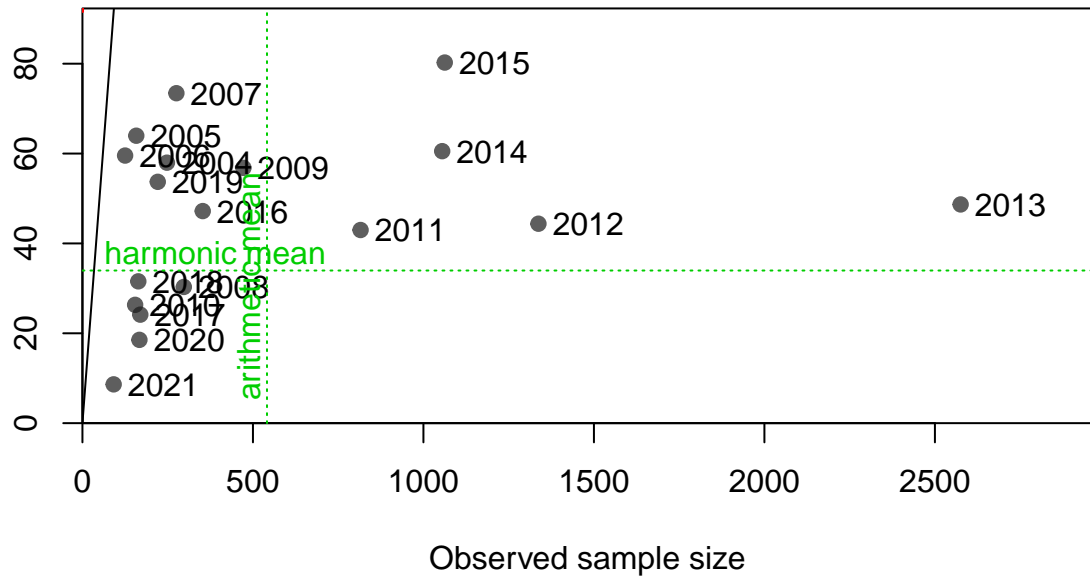




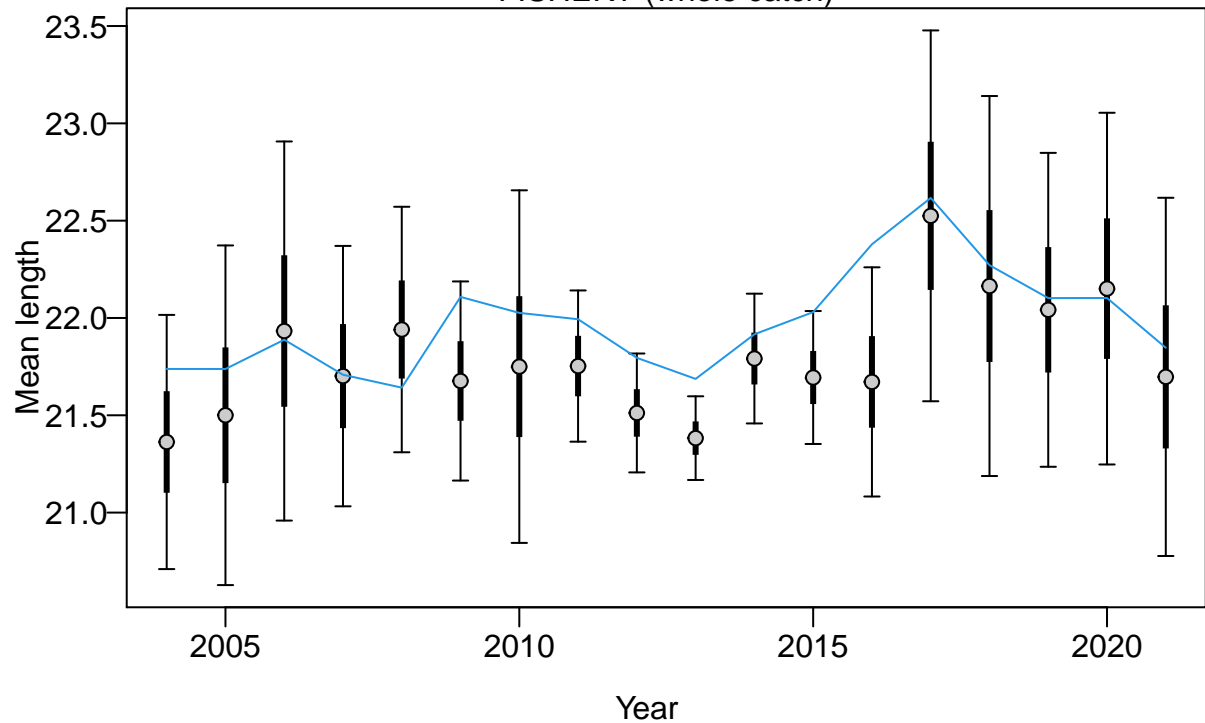


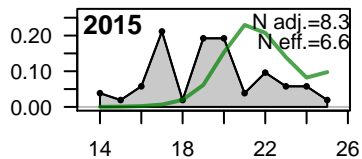


Effective sample size



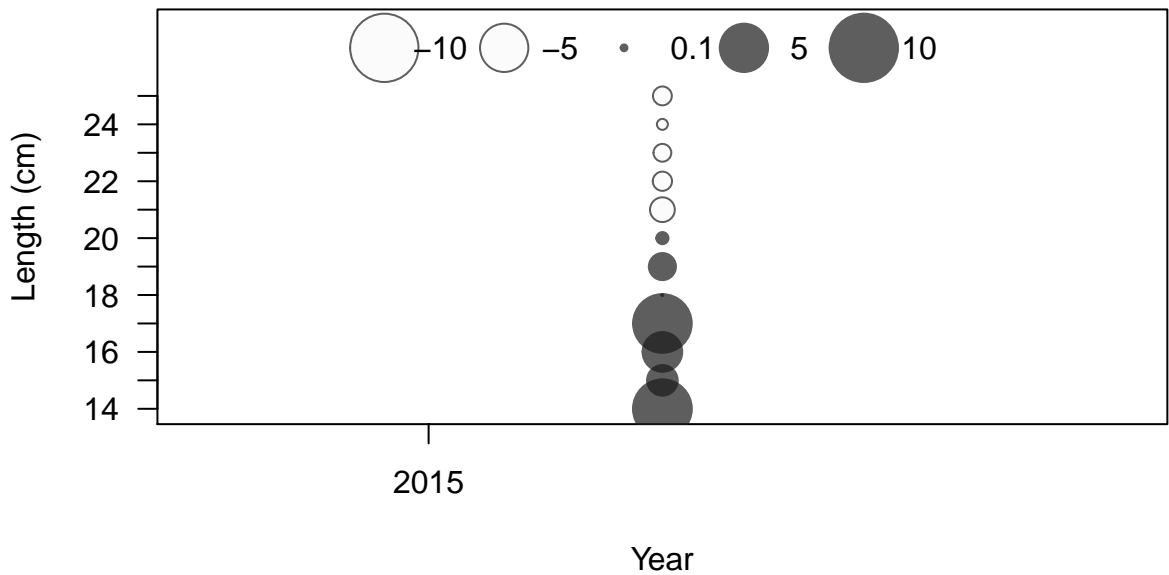
FISHERY (whole catch)





Proportion

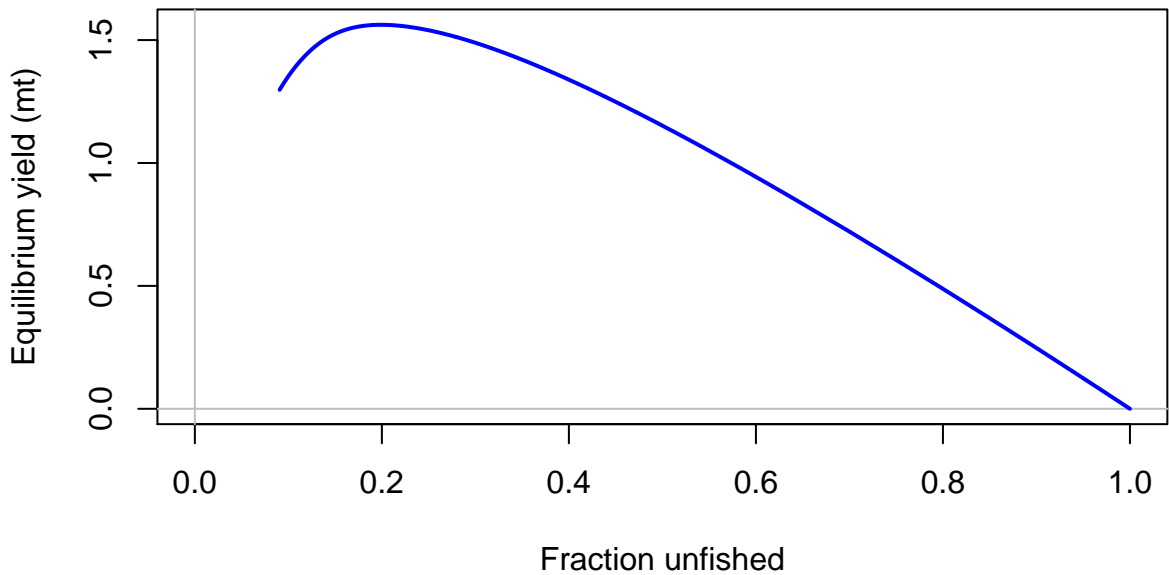
Length (cm)

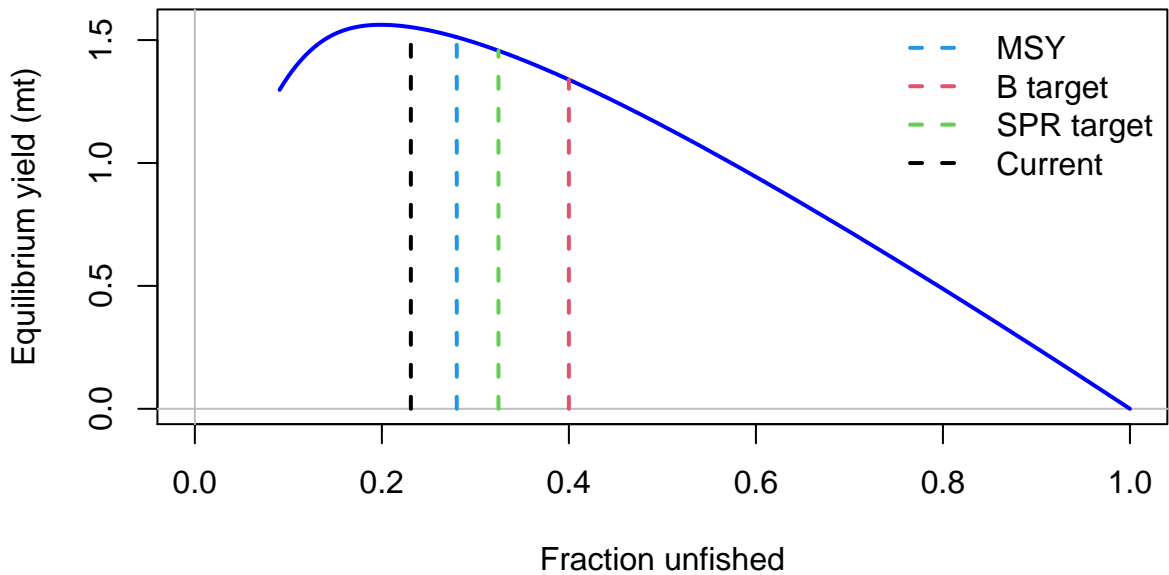


Effective sample size

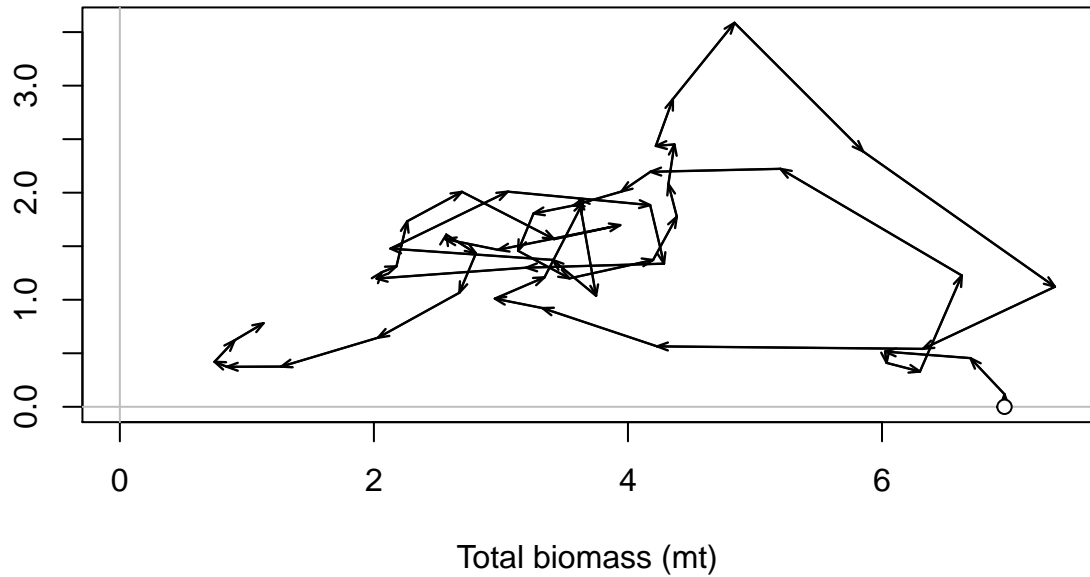


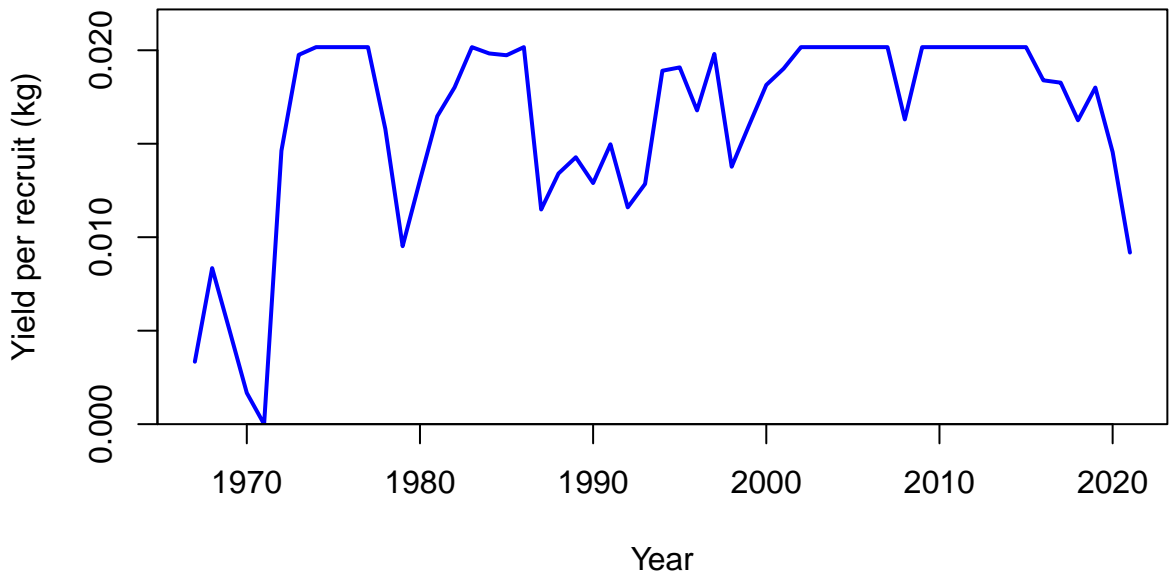
Observed sample size

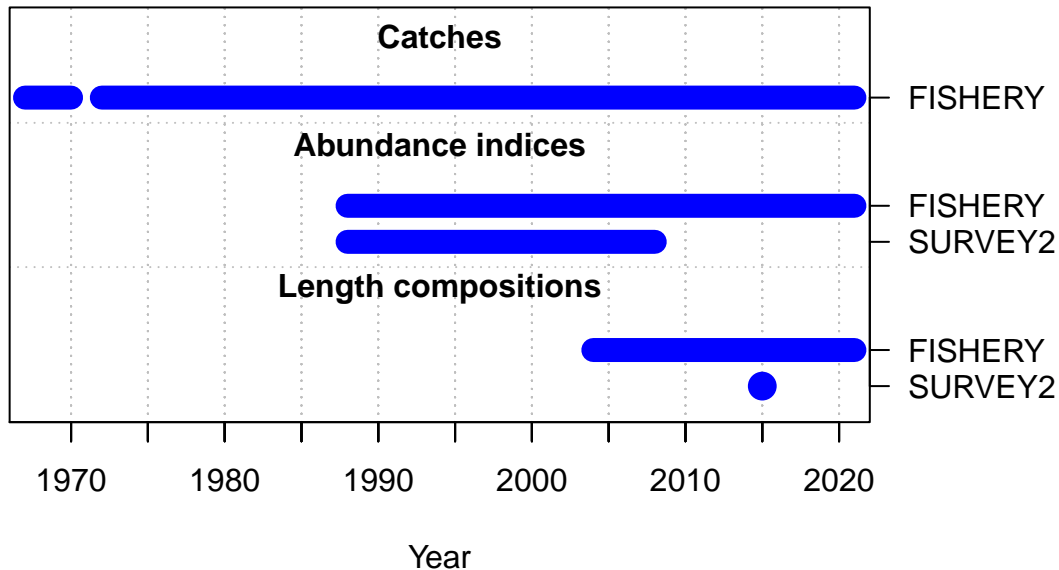


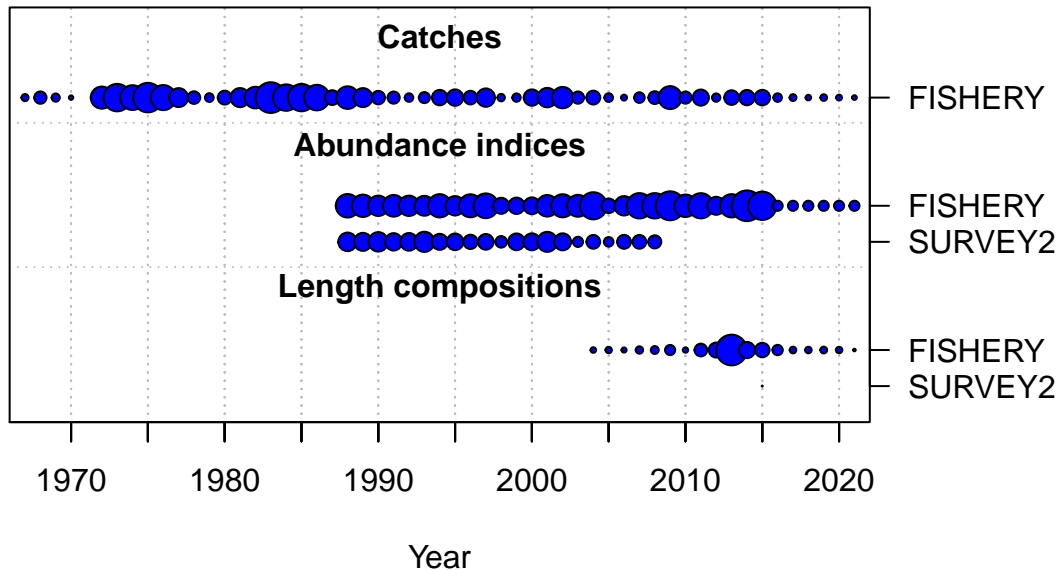


Surplus production (mt)

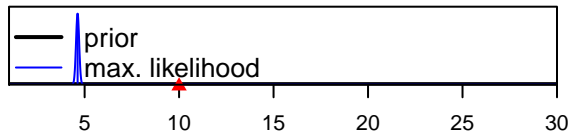




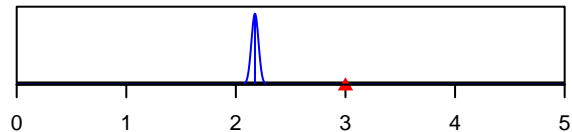




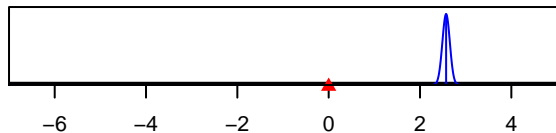
SR_LN(R0)



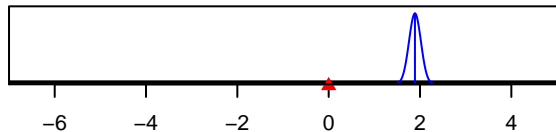
Size_95%width_FISHERY(1)



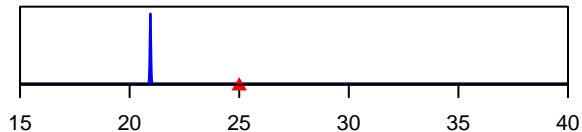
LnQ_base_FISHERY(1)



LnQ_base_SURVEY2(2)



Size_inflection_FISHERY(1)



Parameter value