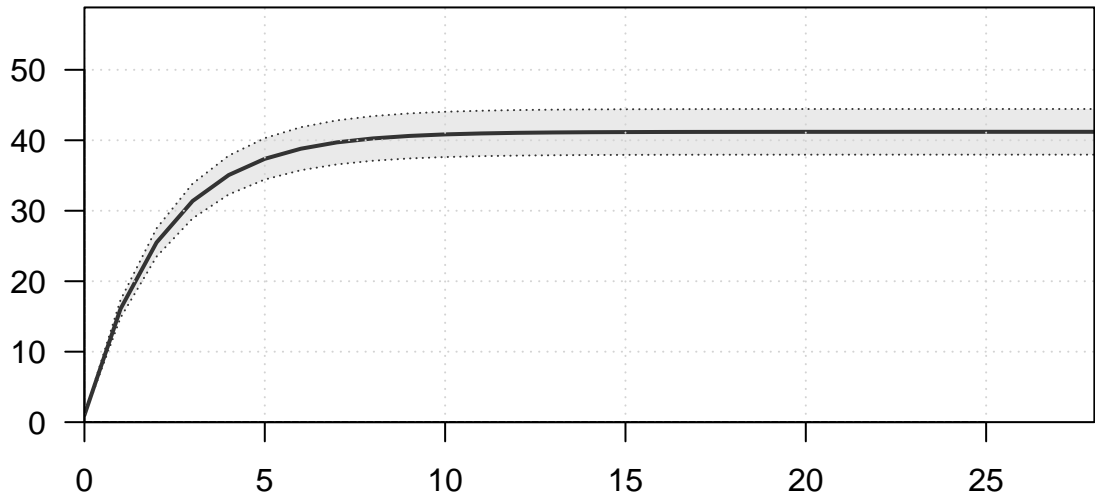
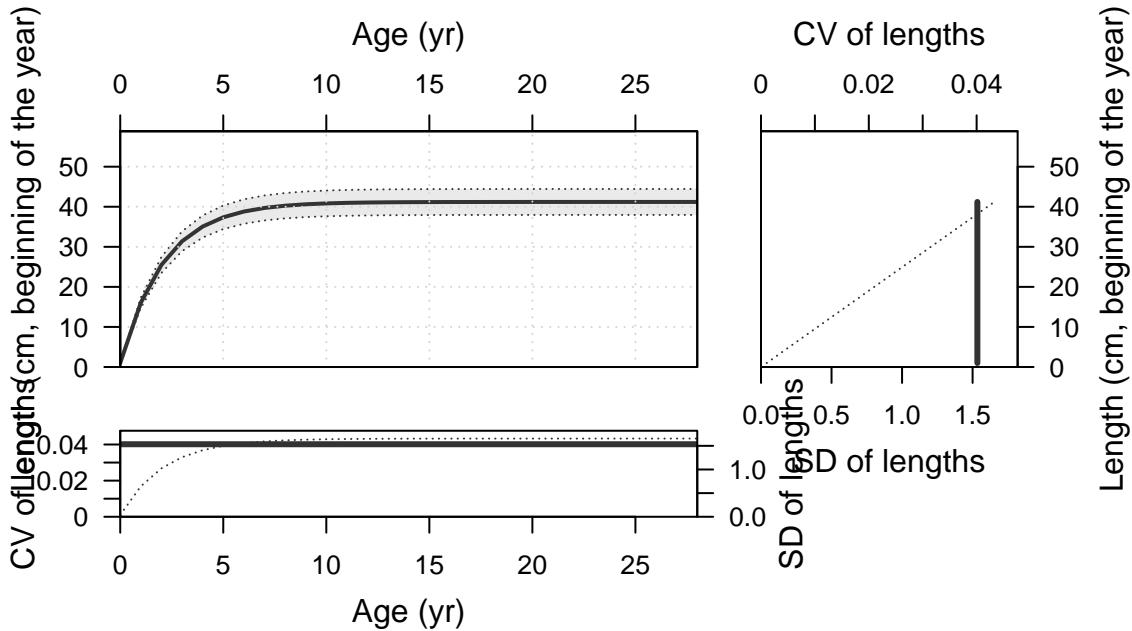


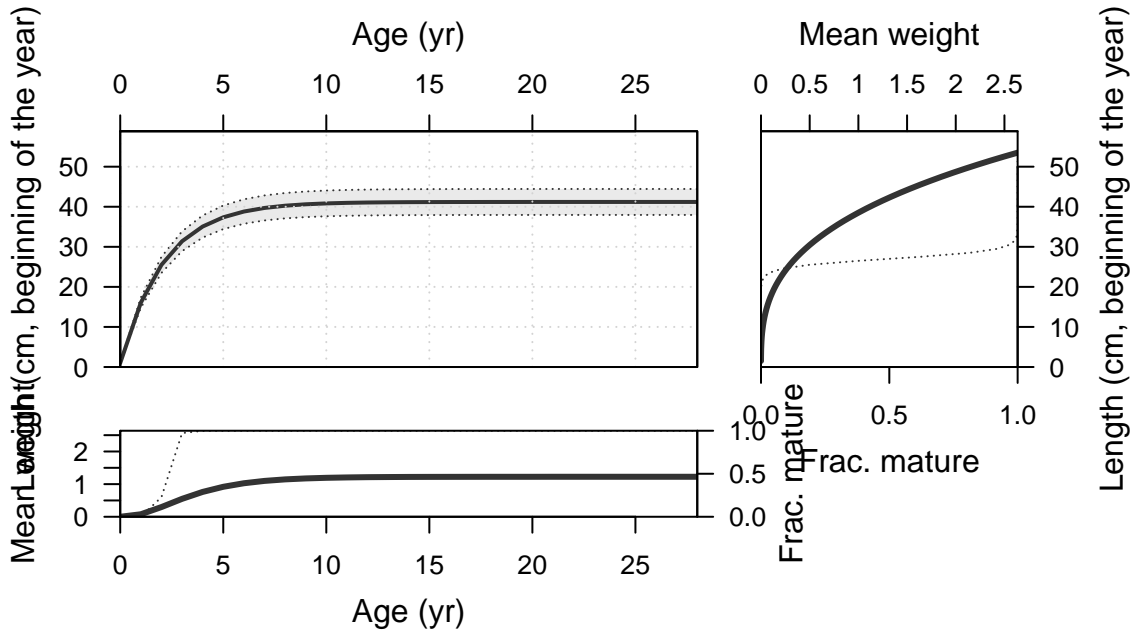
Plots created using the 'r4ss' package in R
Stock Synthesis version: 3.30.19.0
StartTime: Tue Aug 09 14:12:38 2022
Data_File: data.ss
Control_File: control.ss

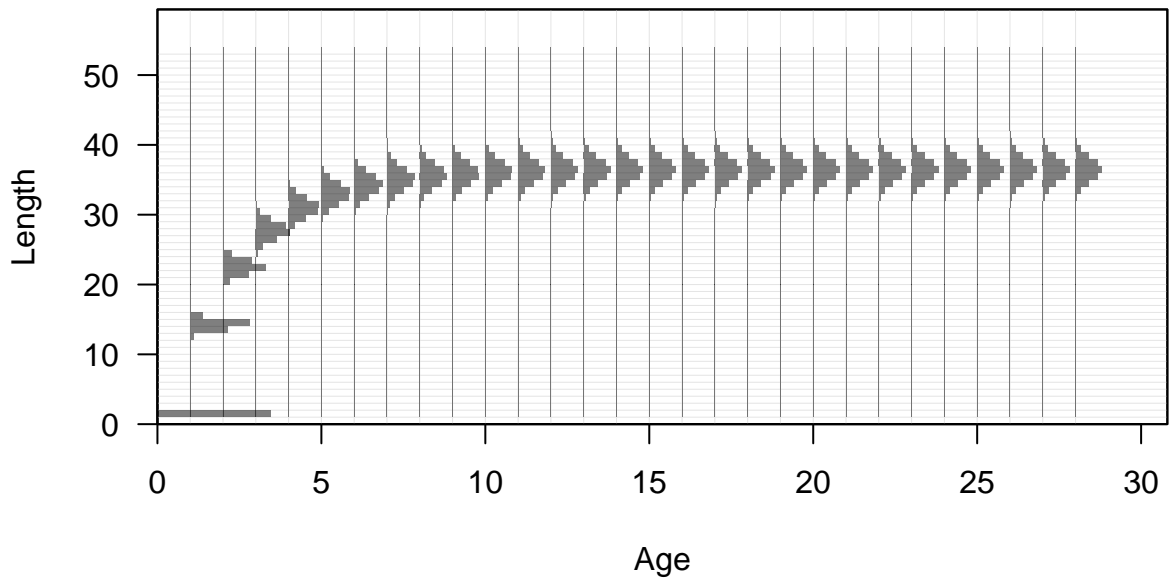
Length (cm, beginning of the year)

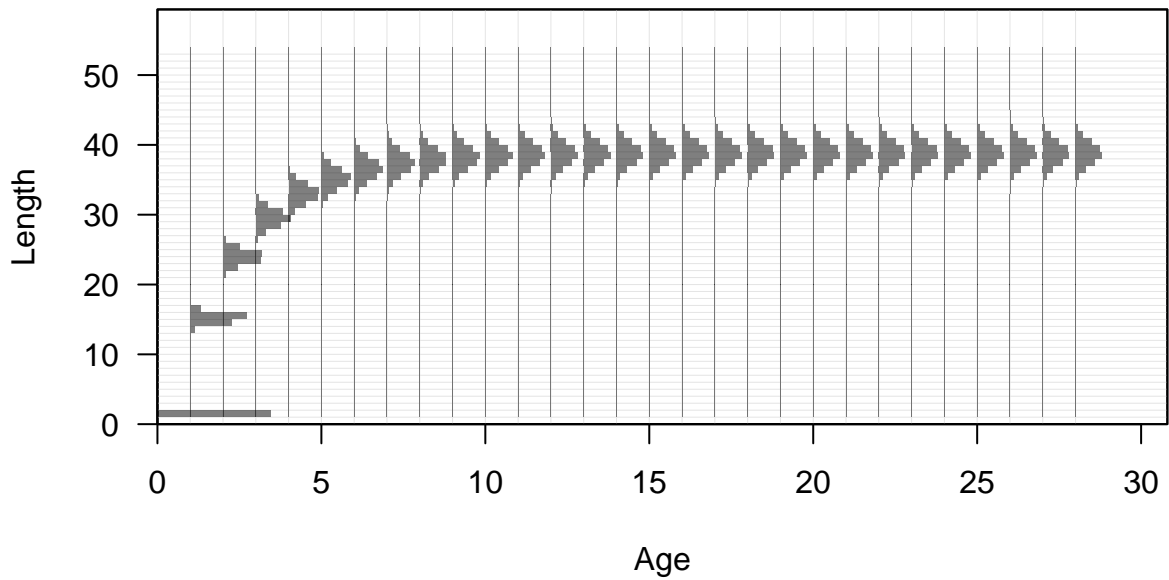


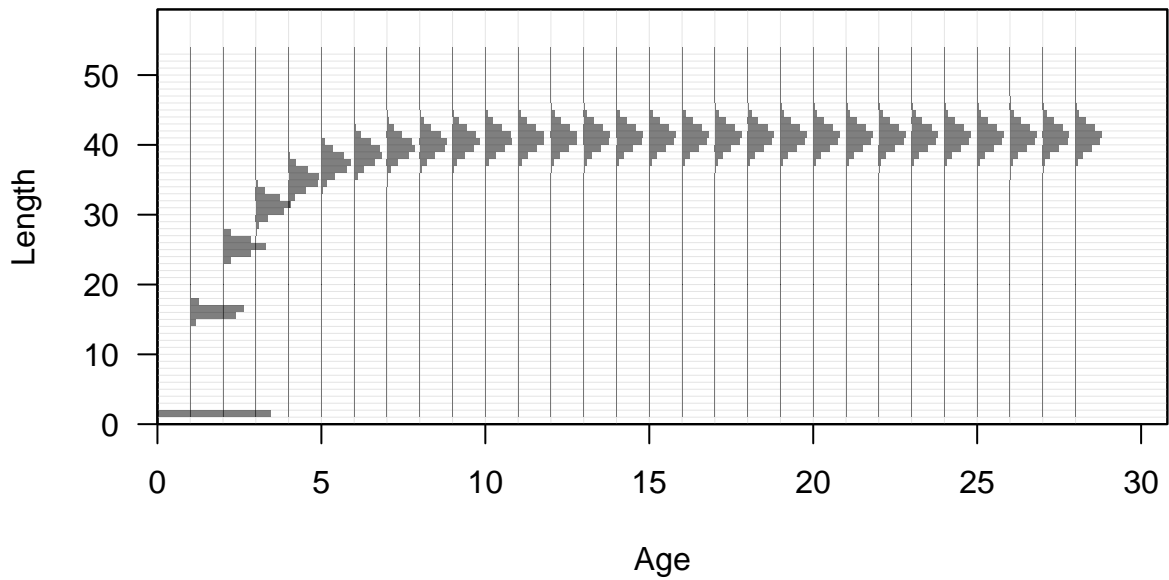
Age (yr)

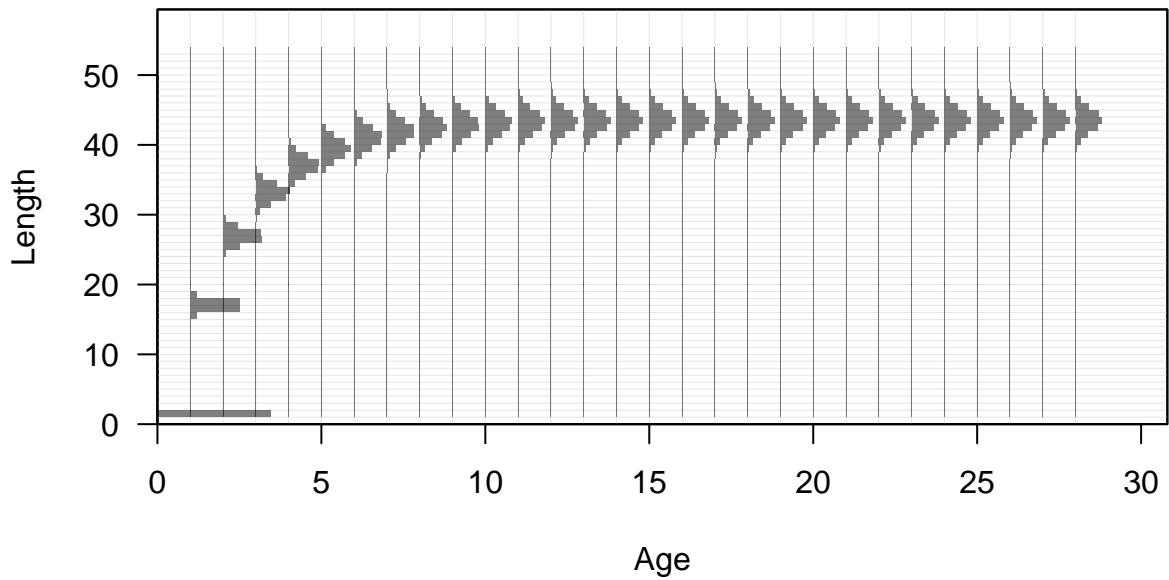


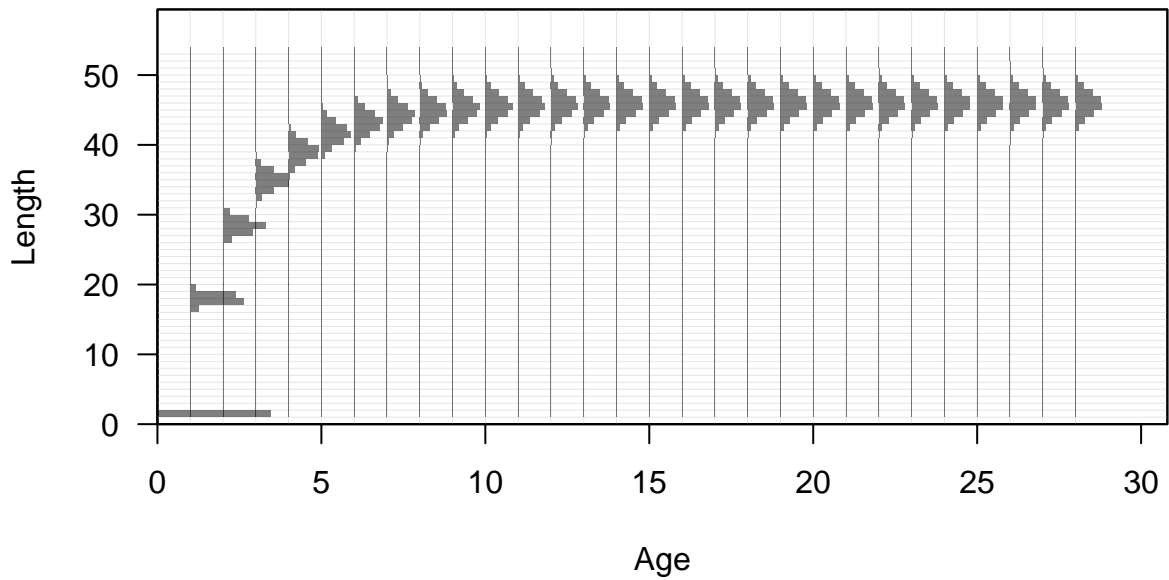


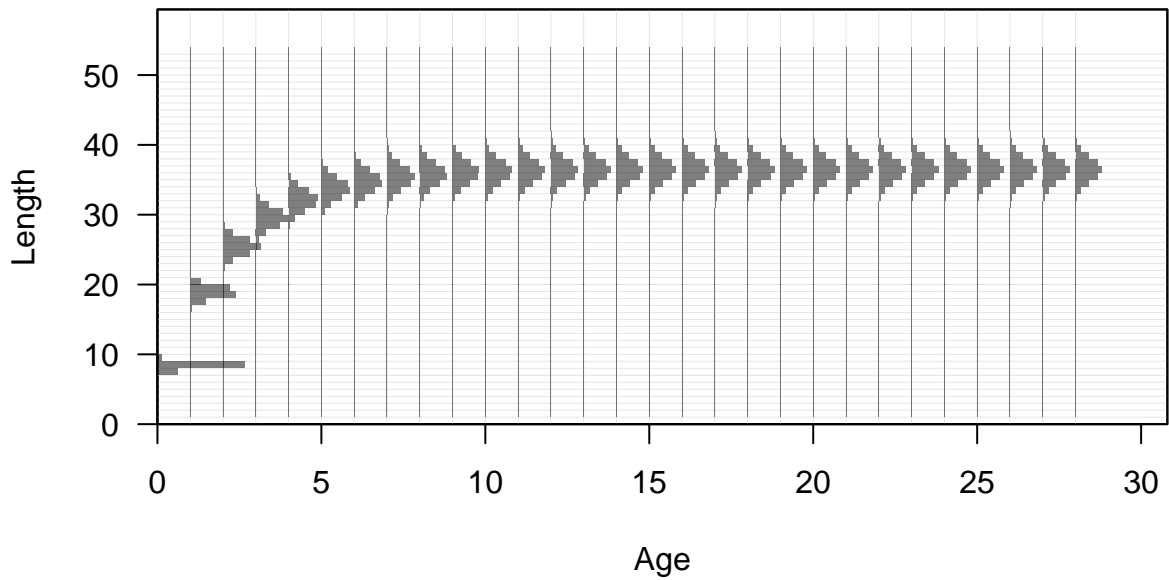


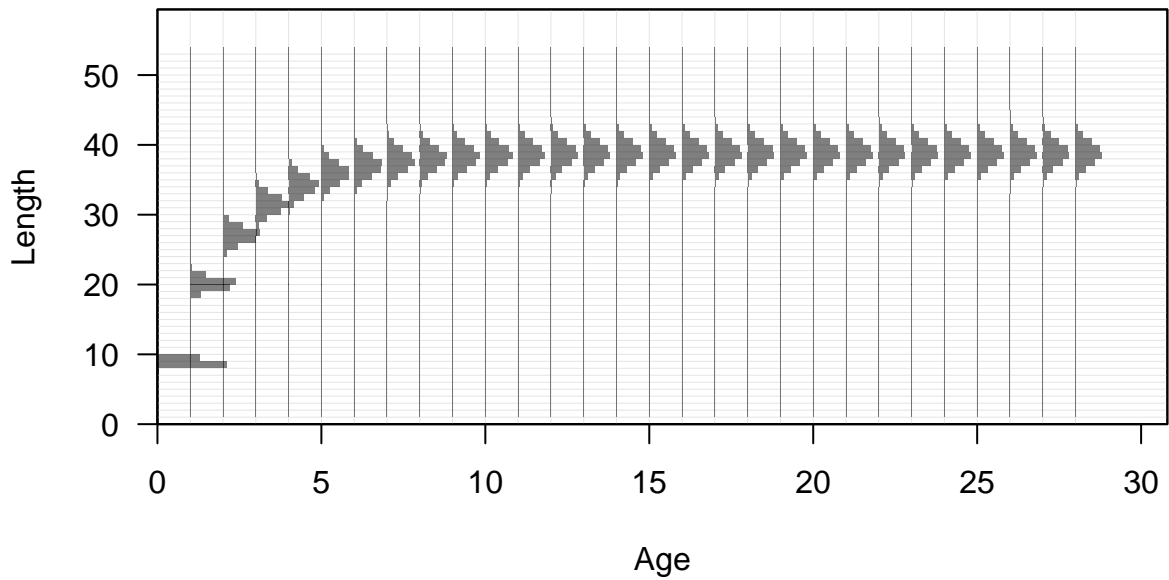


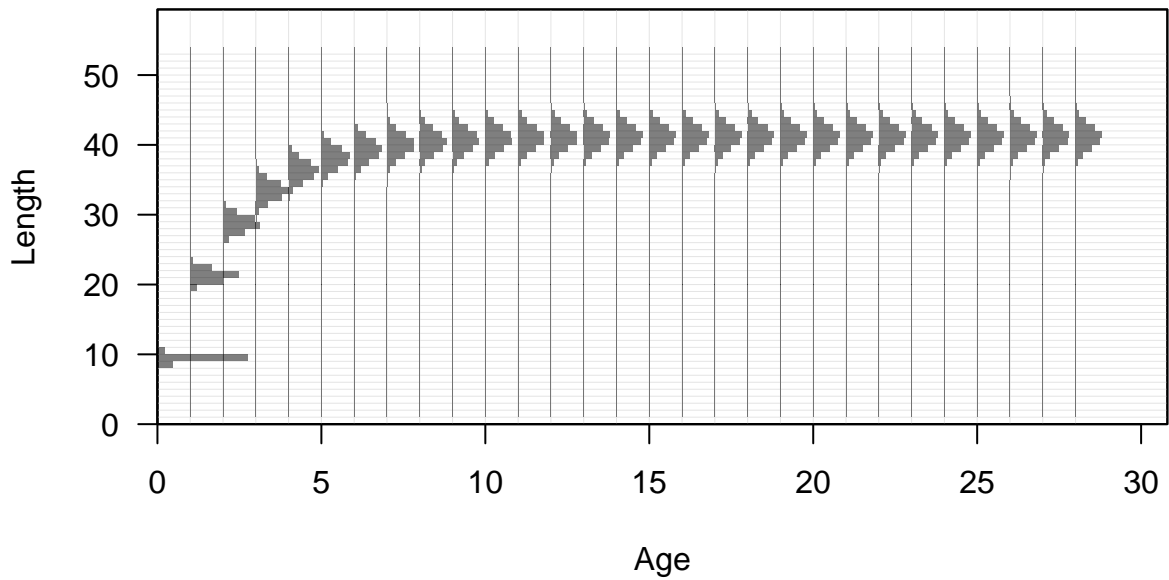


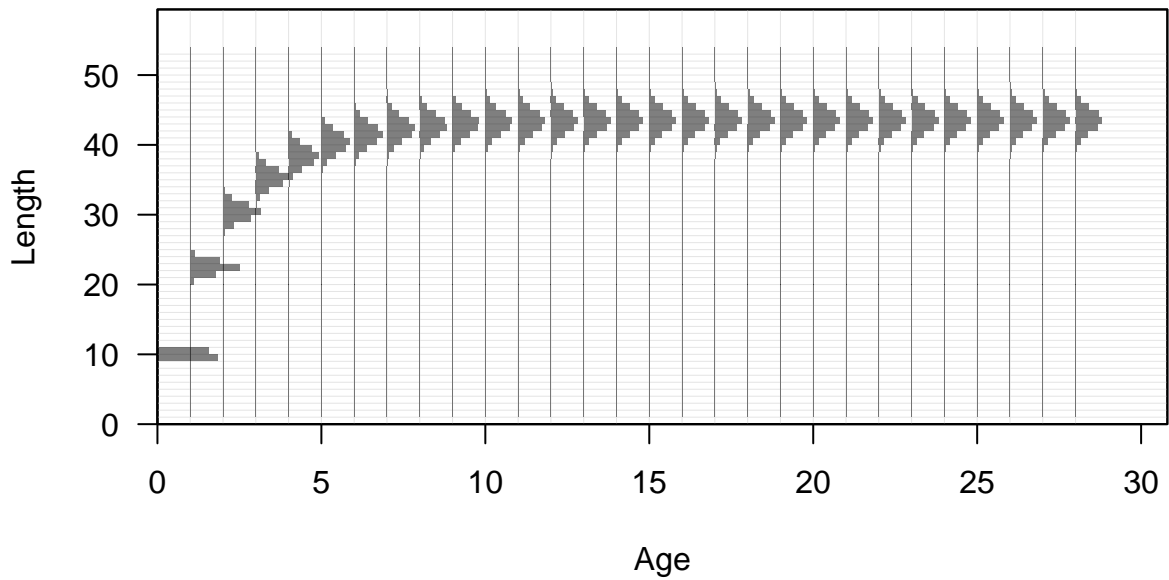


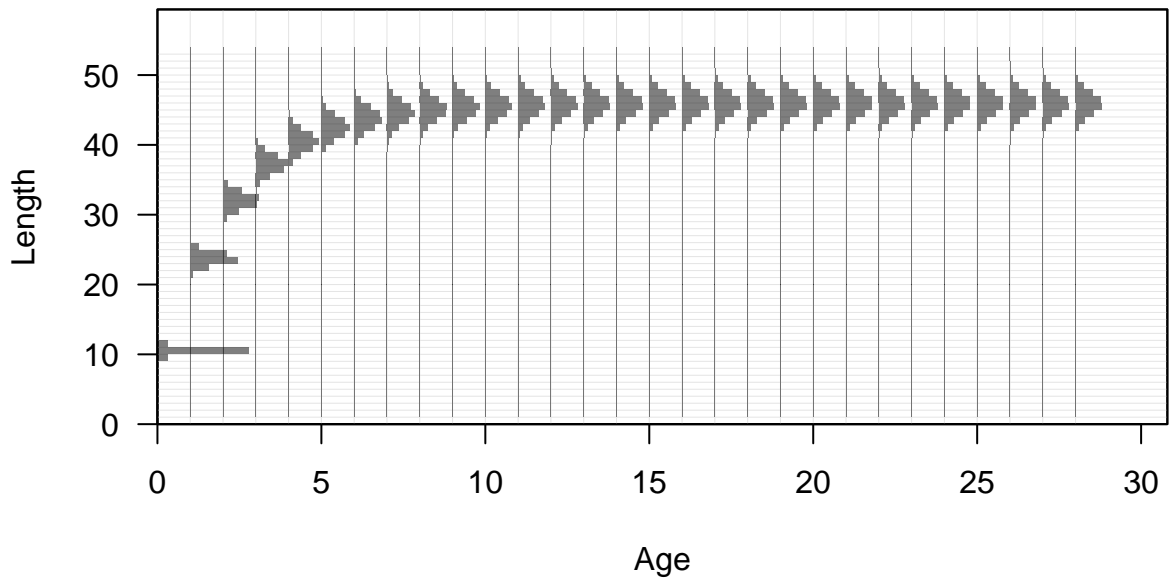


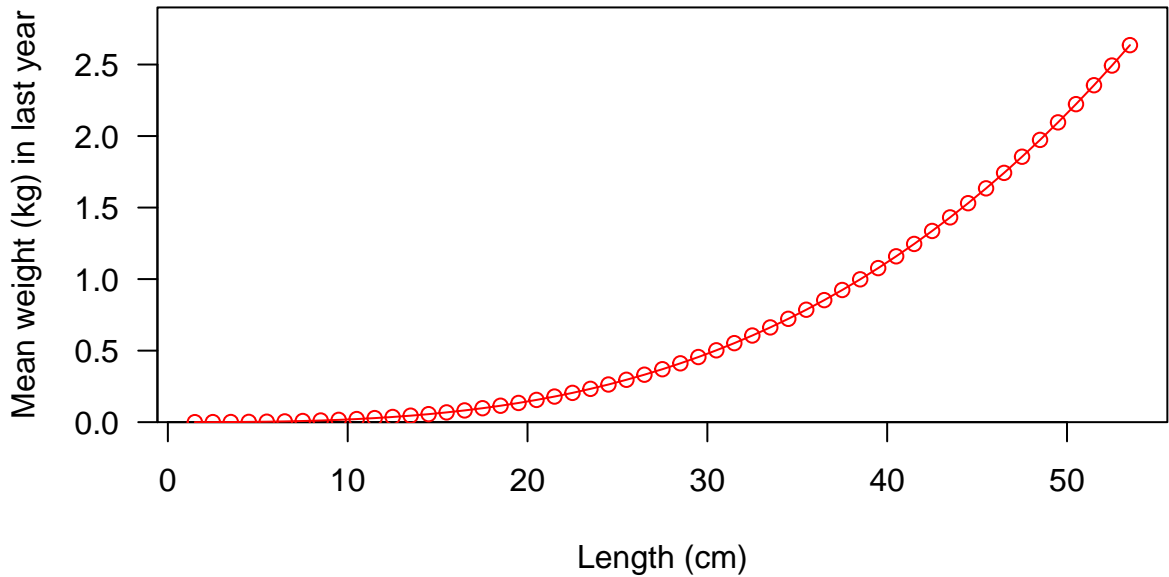


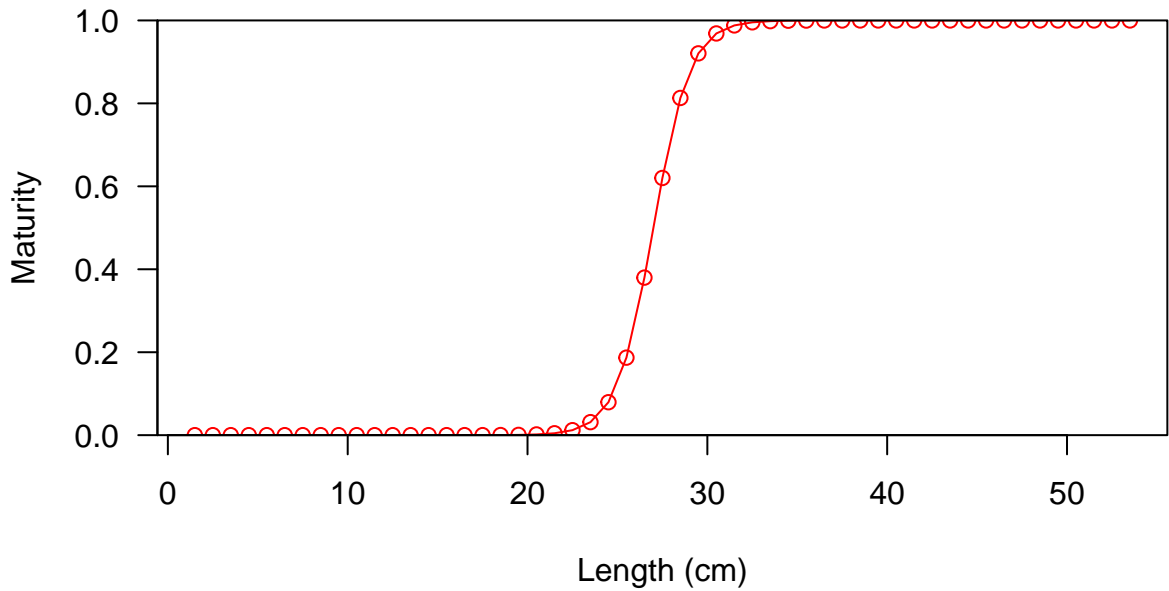


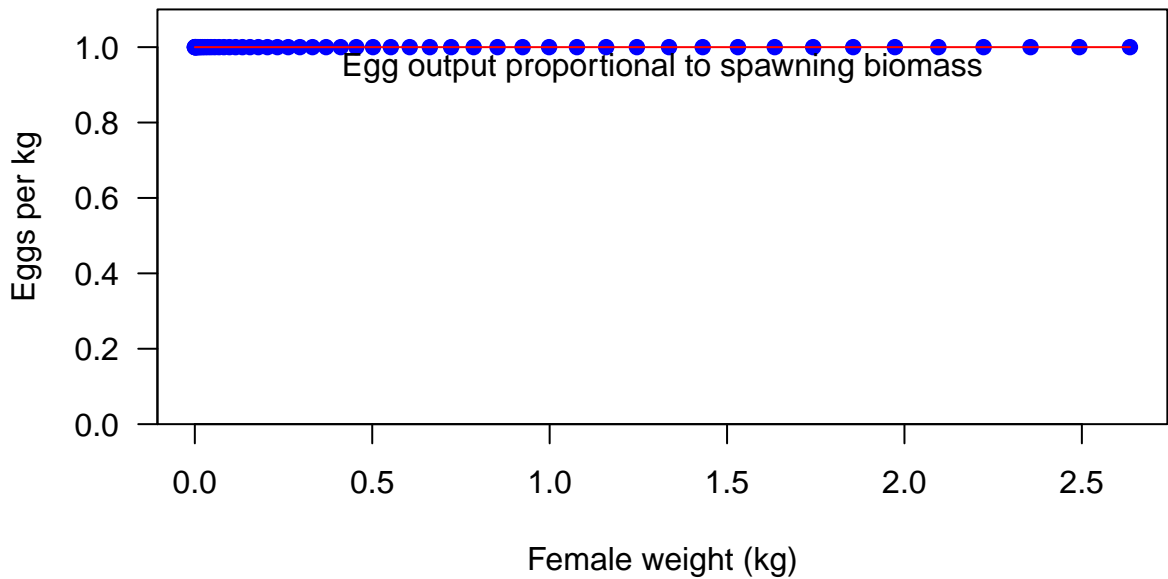


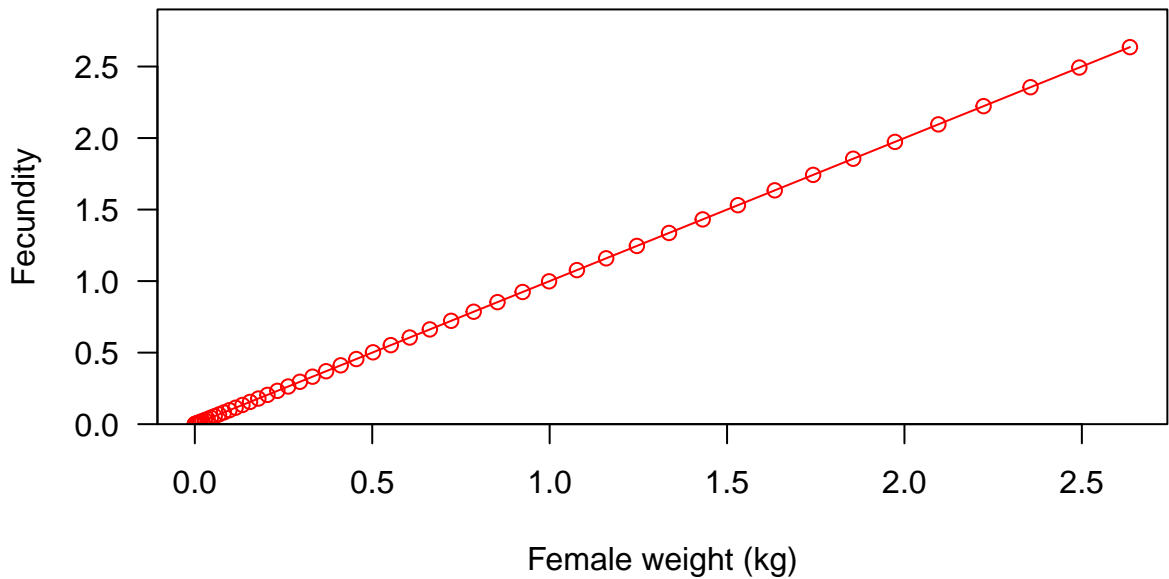


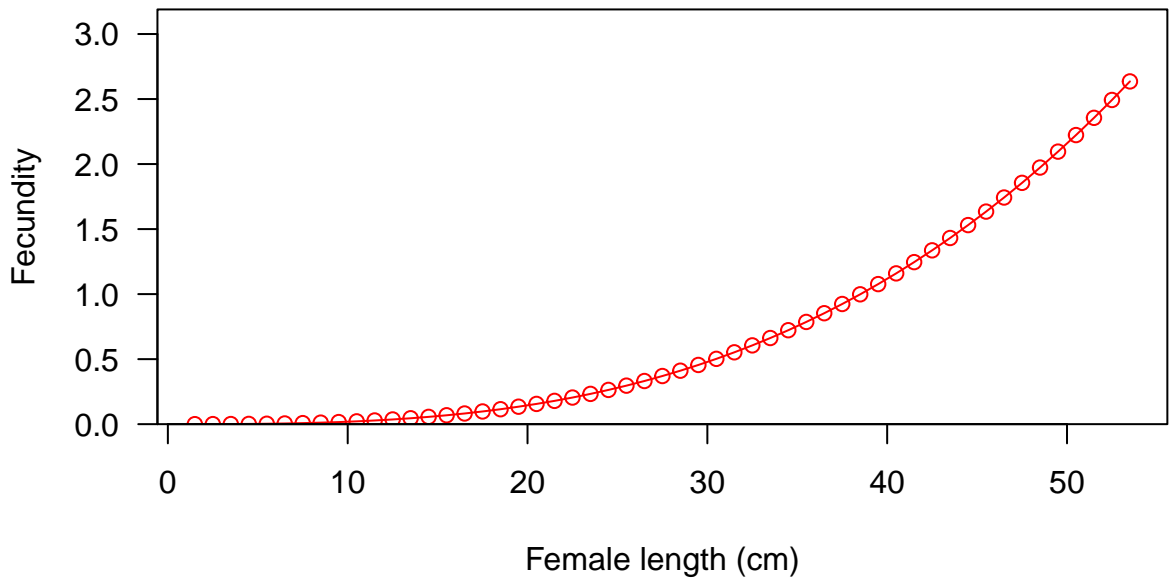


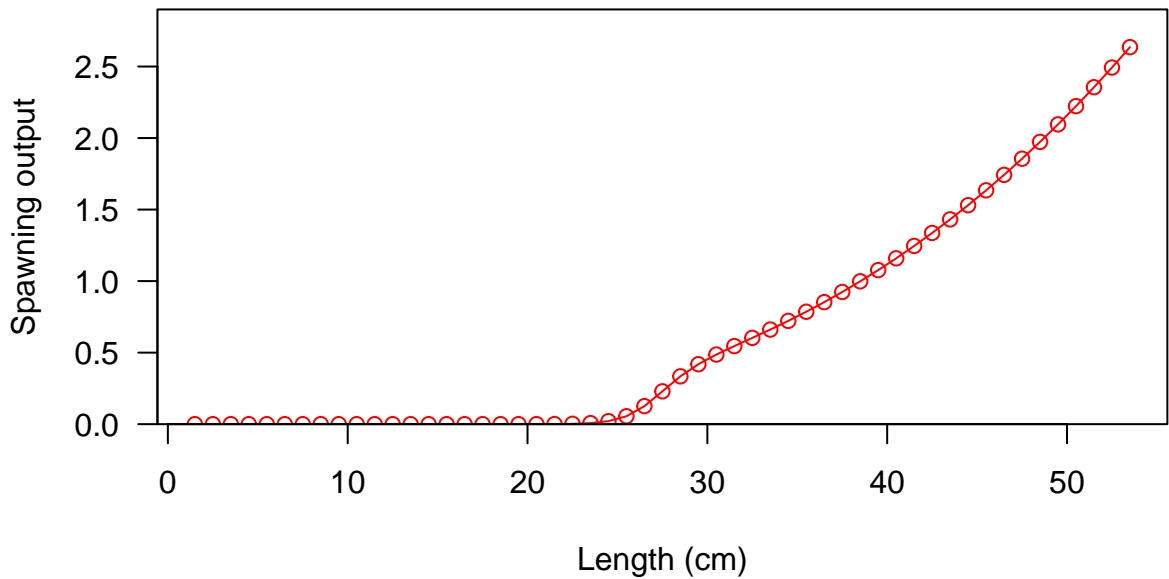




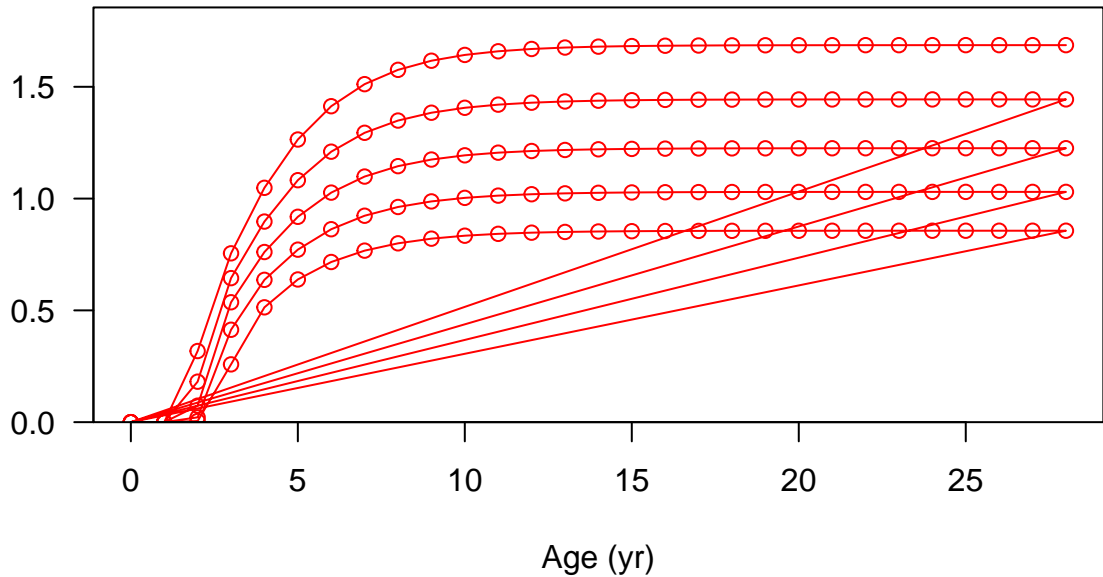




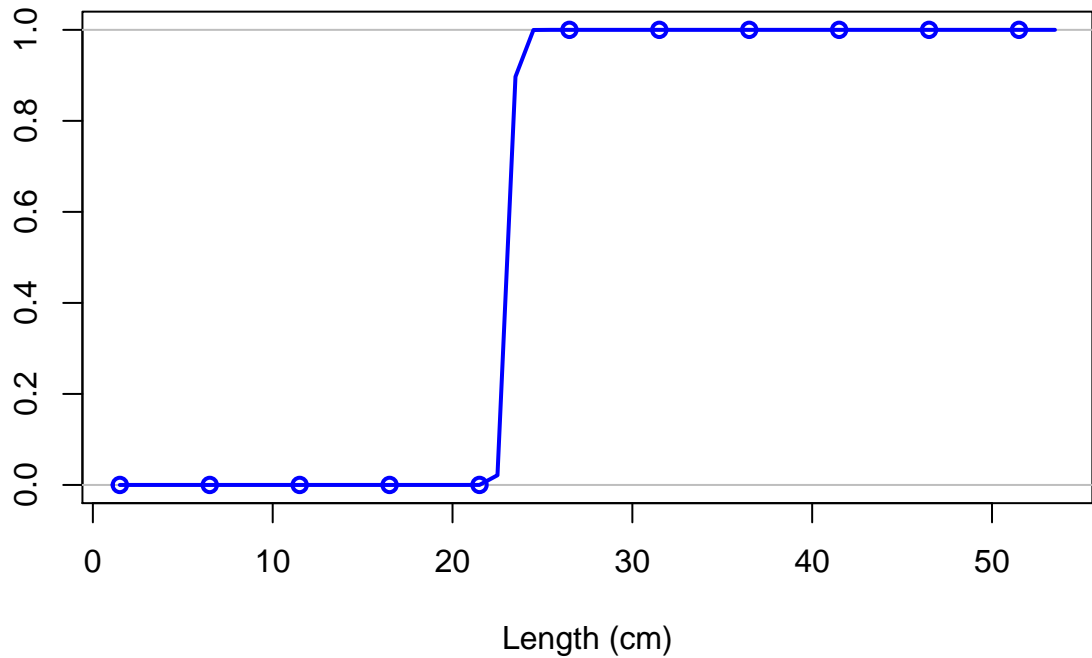




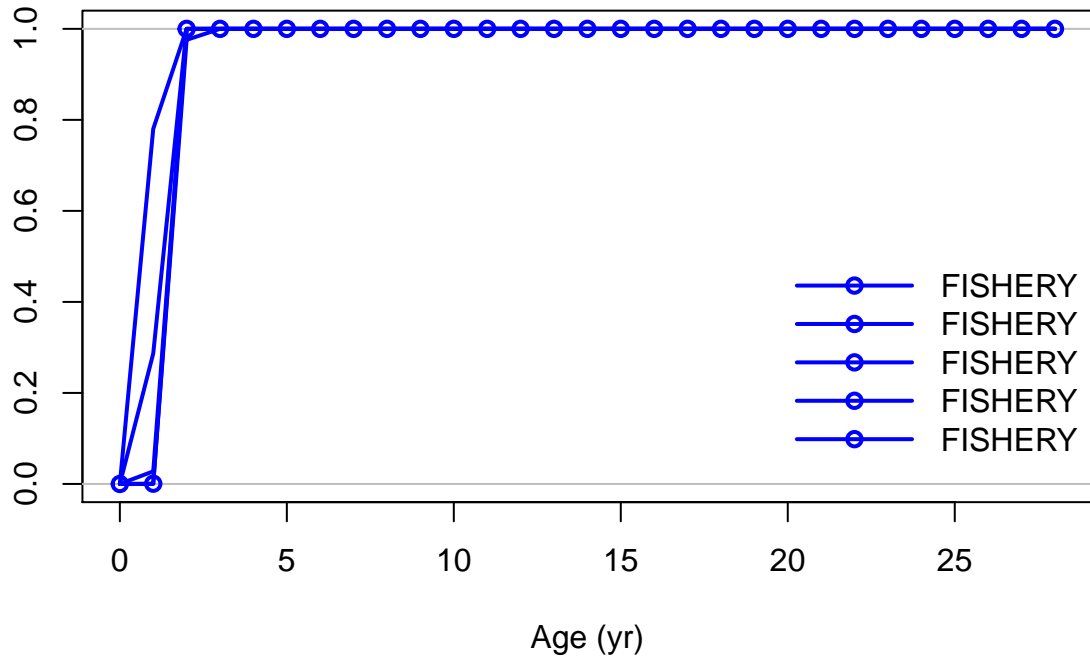
Spawning output



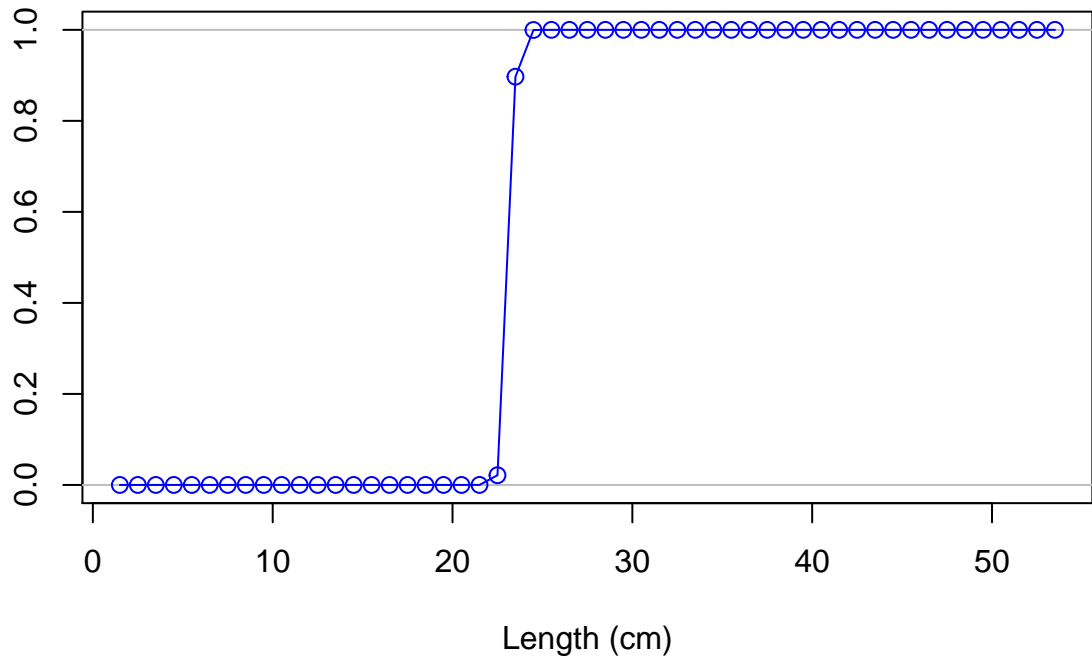
Selectivity

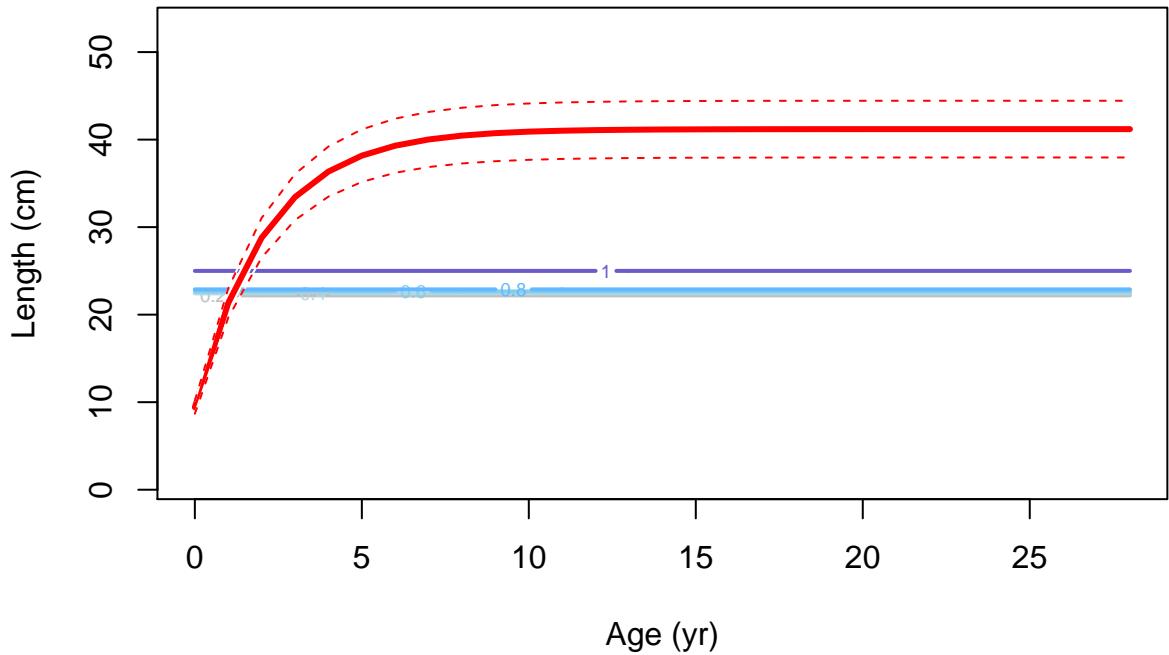


Selectivity

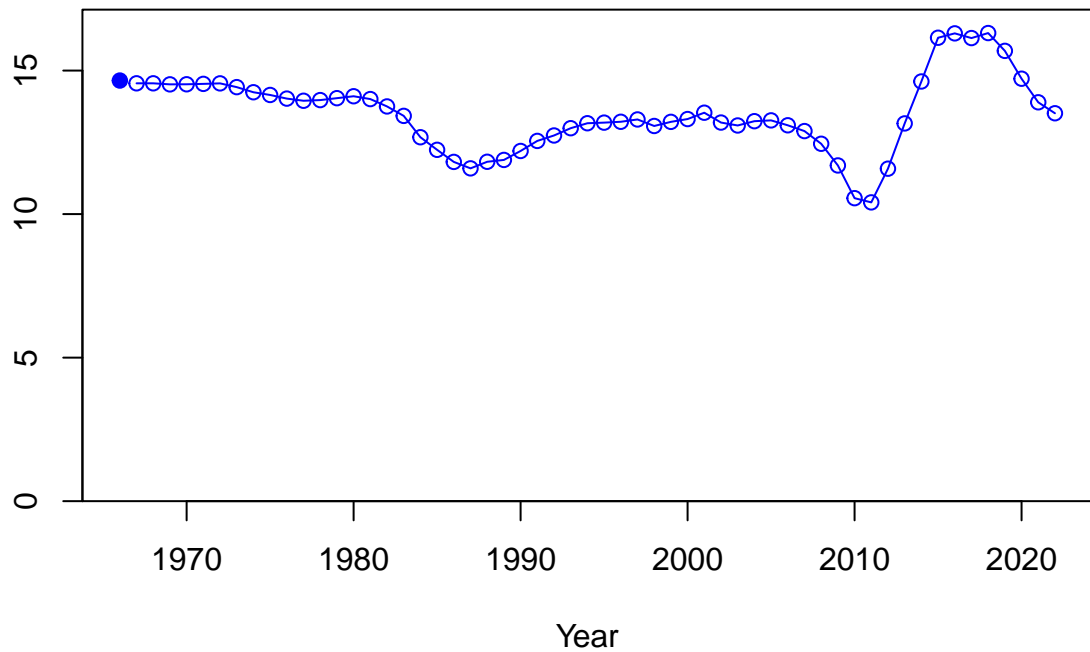


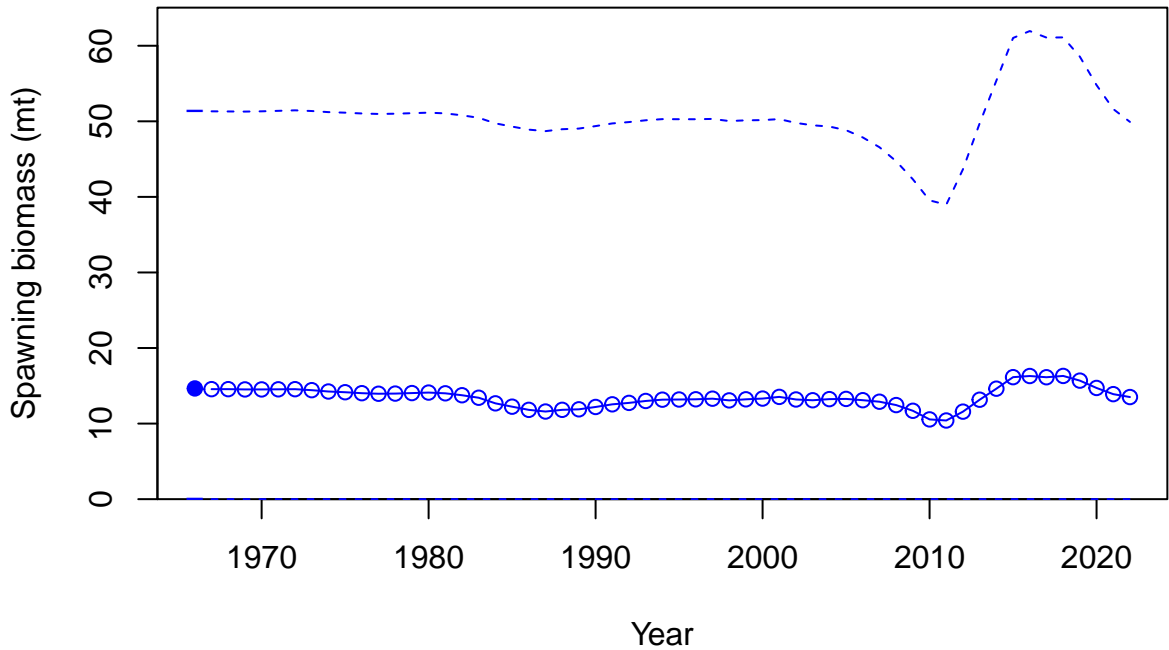
Selectivity



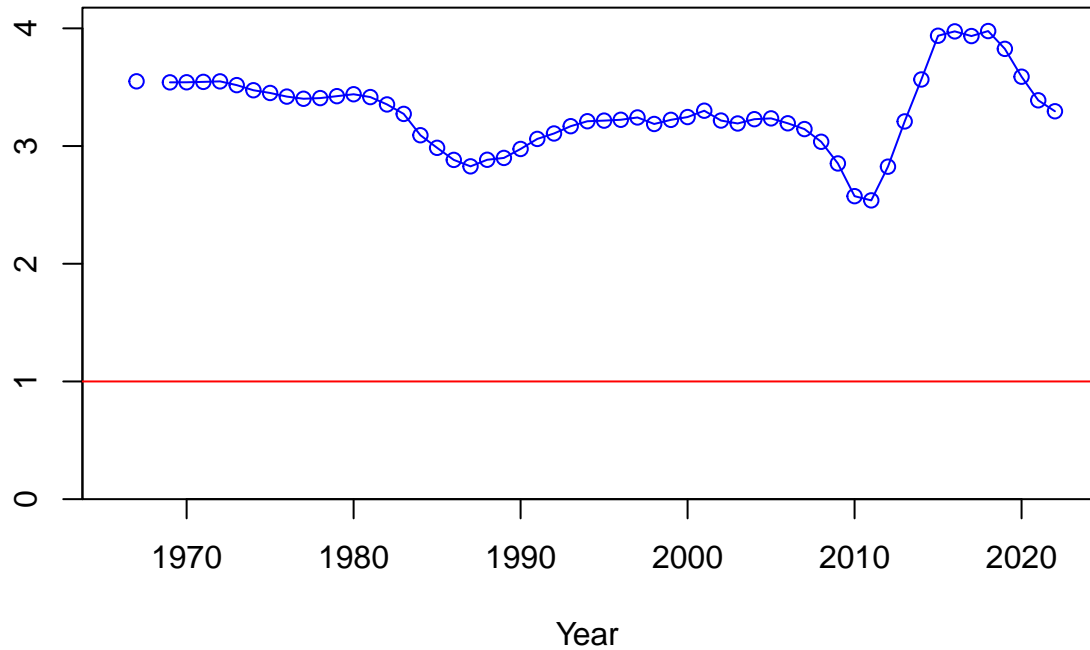


Spawning biomass (mt)

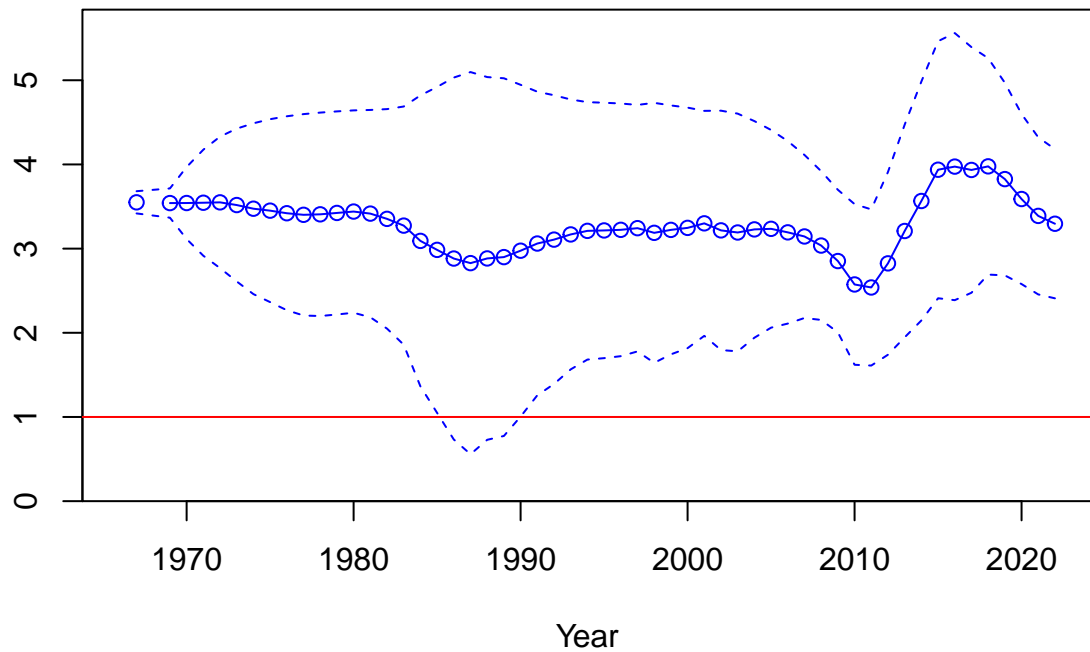


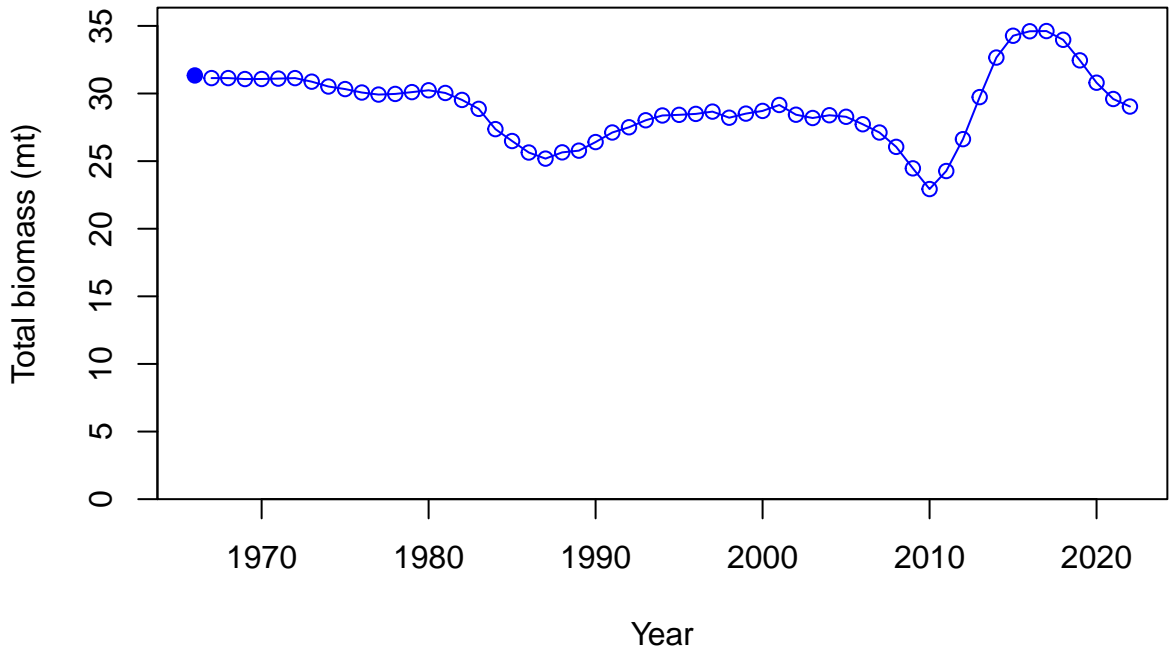


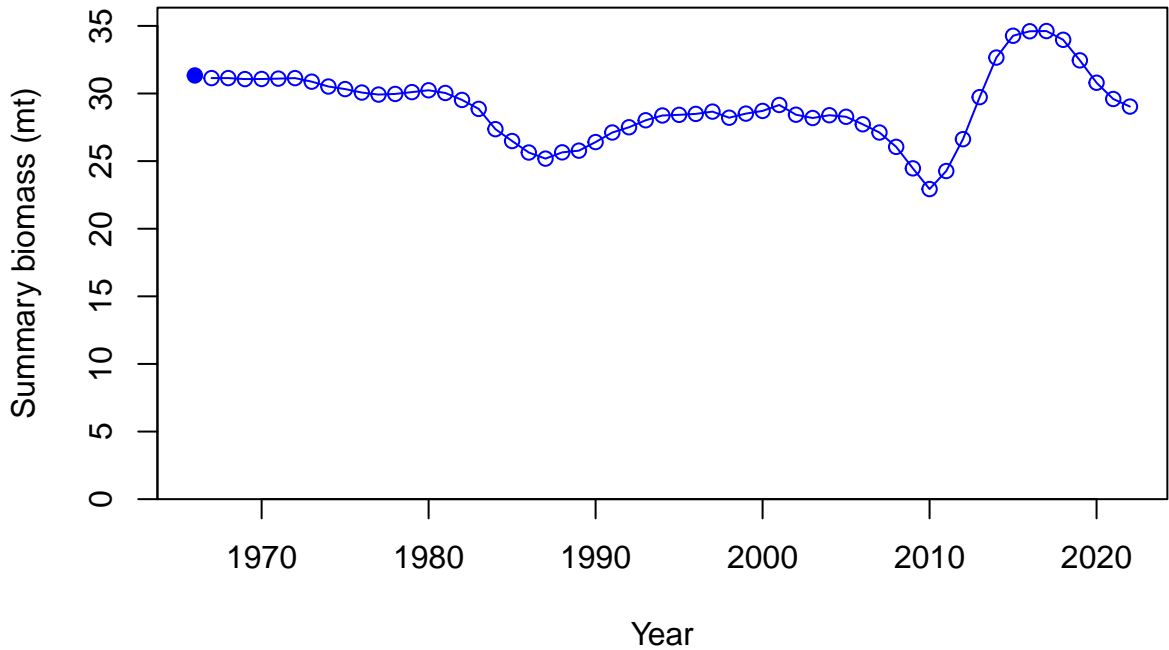
Relative spawning biomass: B/B_{MSY}



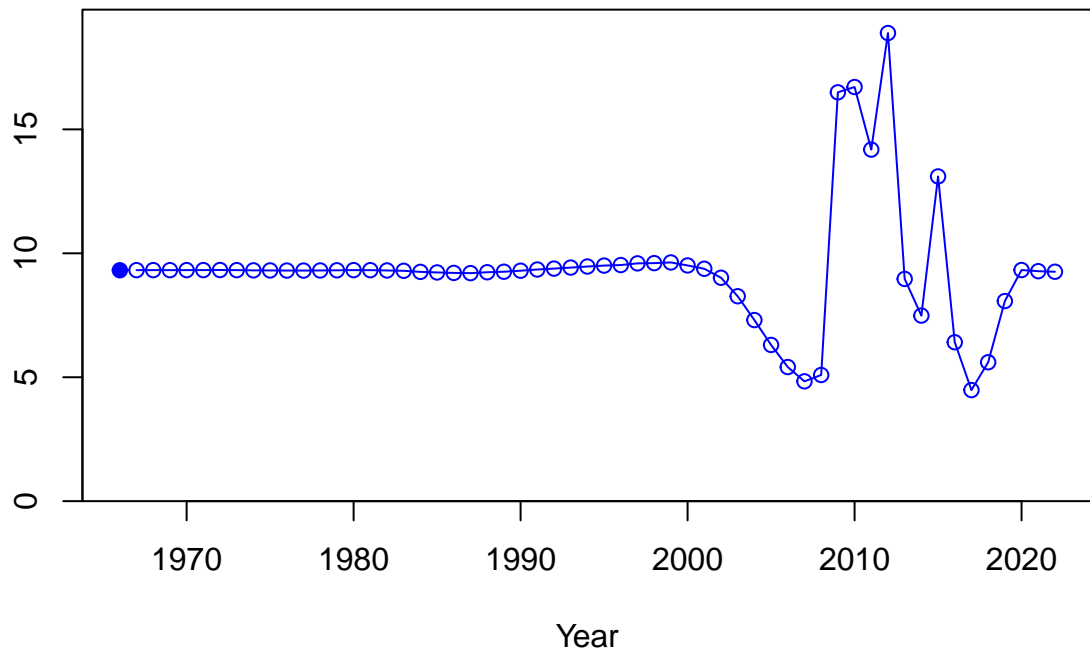
Relative spawning biomass: B/B_{MSY}



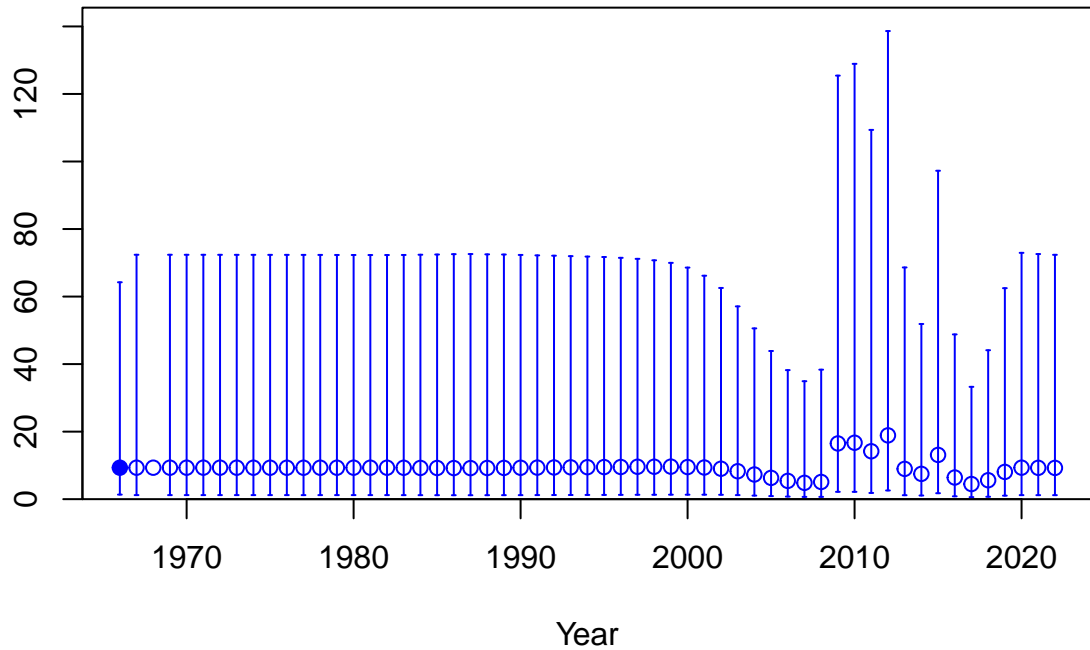




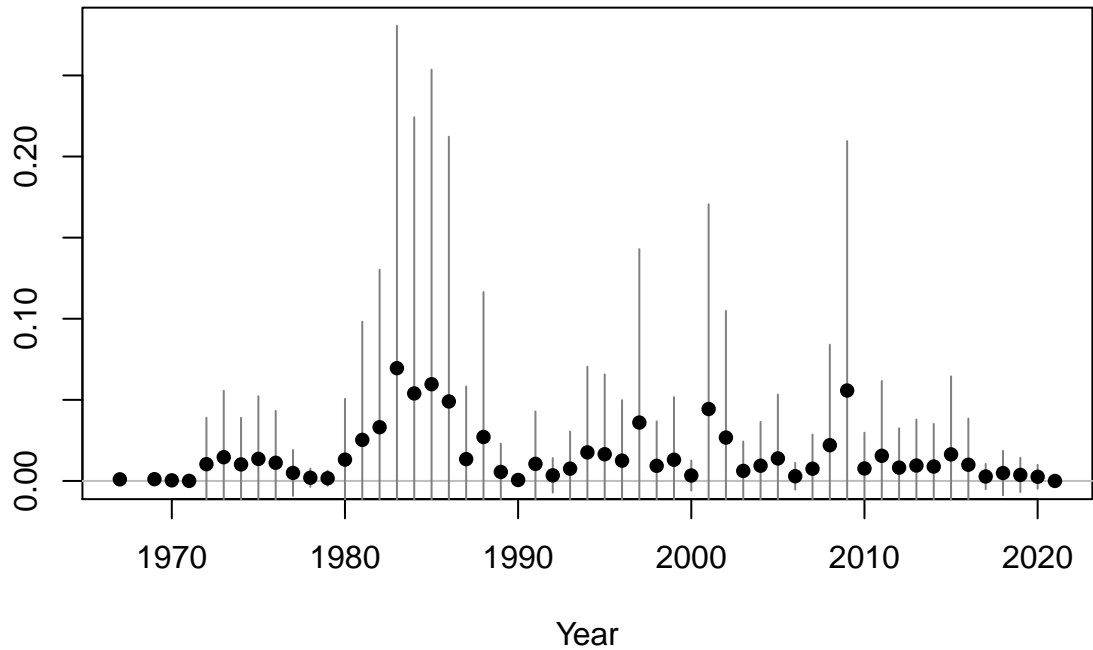
Age-0 recruits (1,000s)

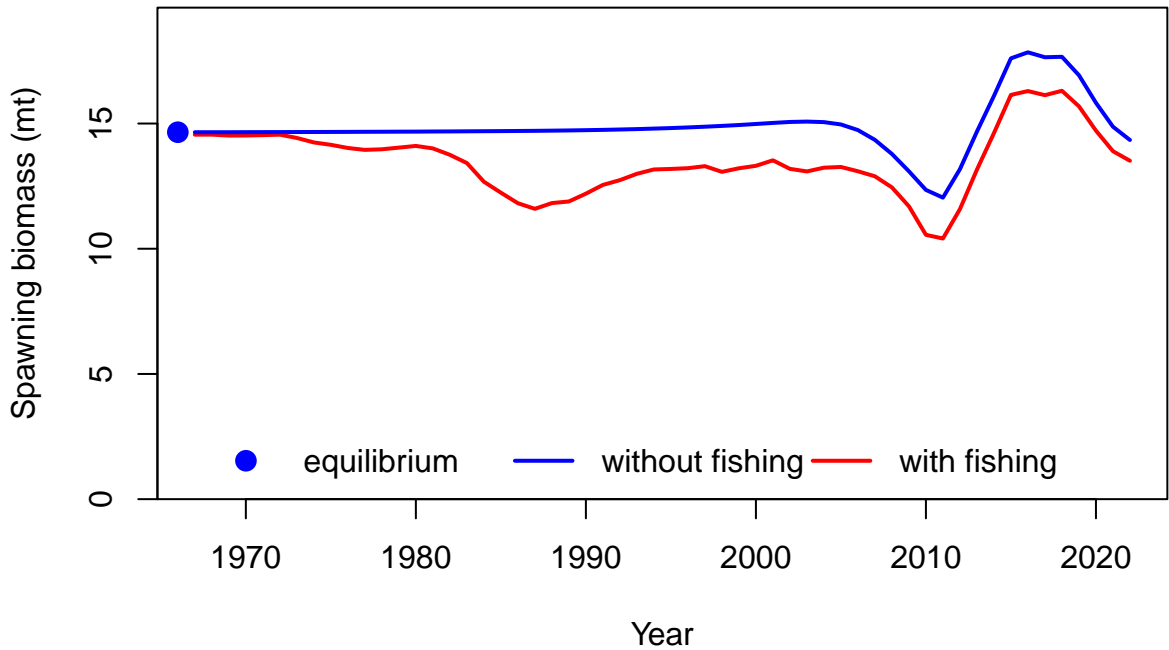


Age-0 recruits (1,000s)

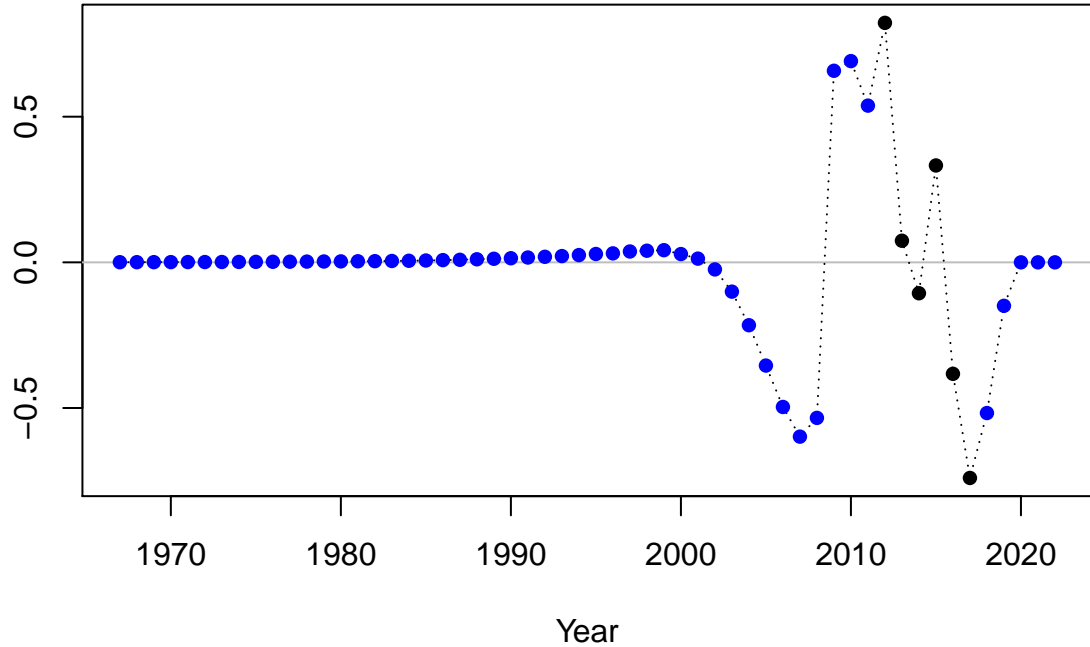


Summary Fishing Mortality

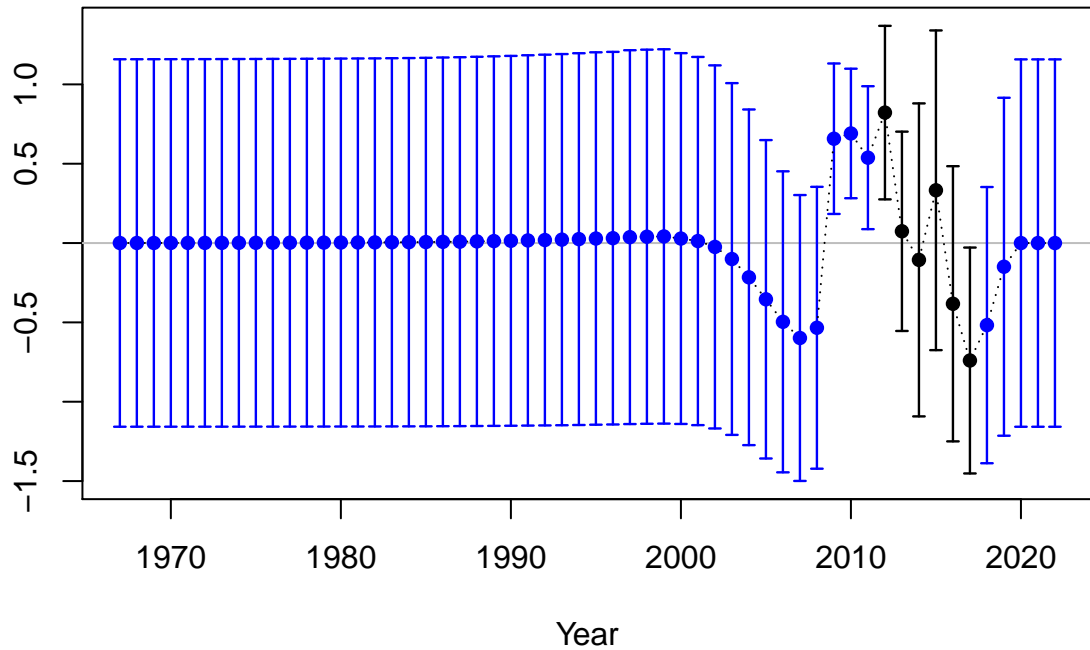




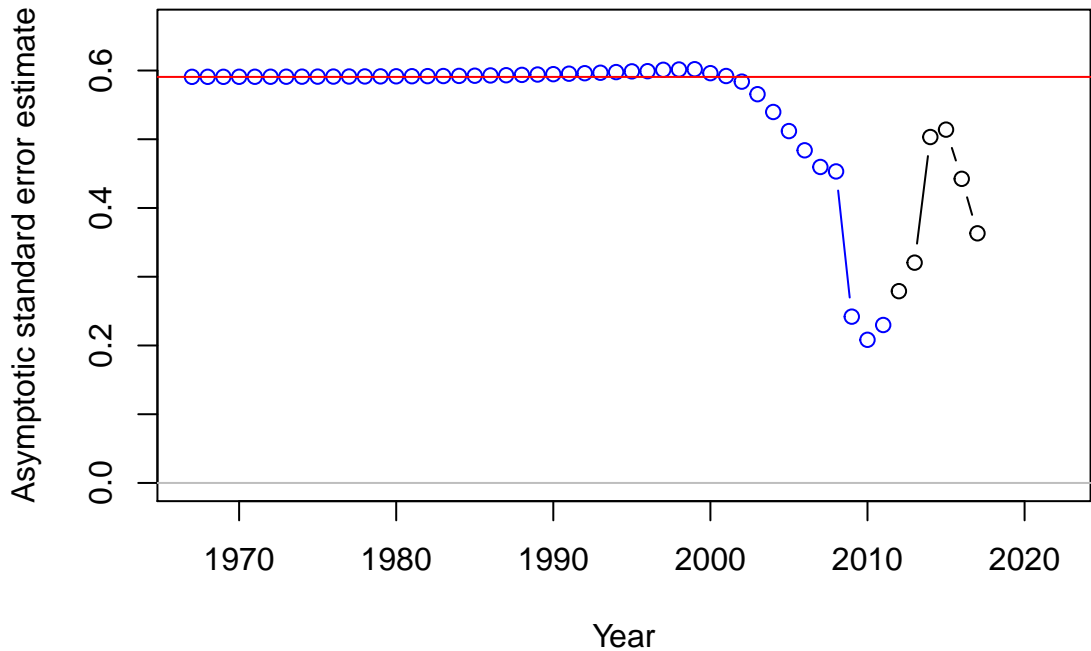
Log recruitment deviation

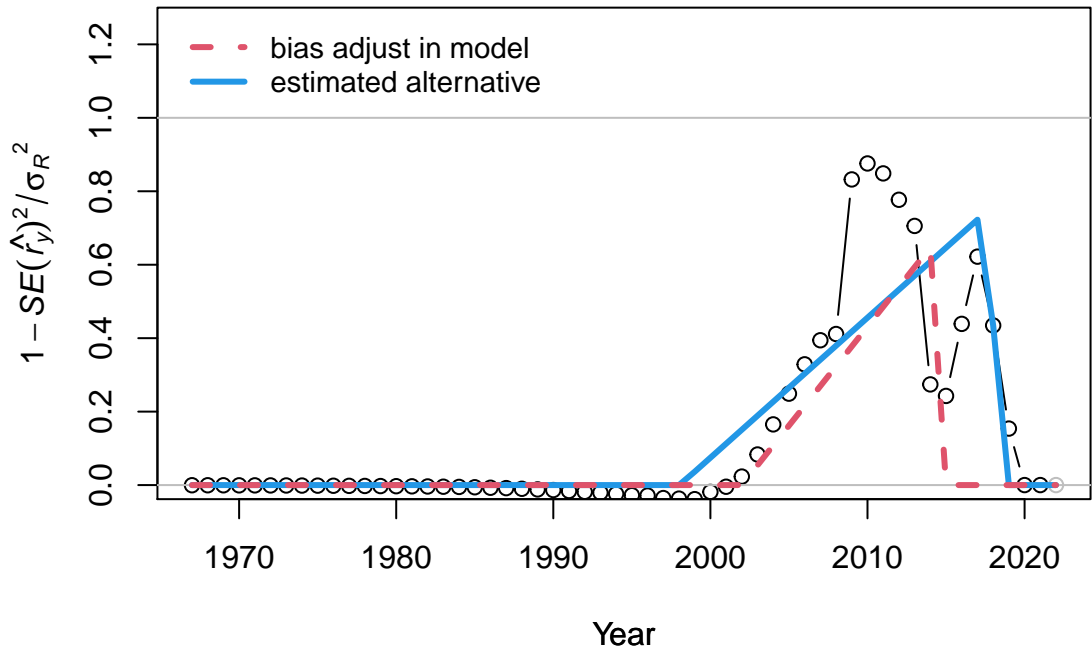


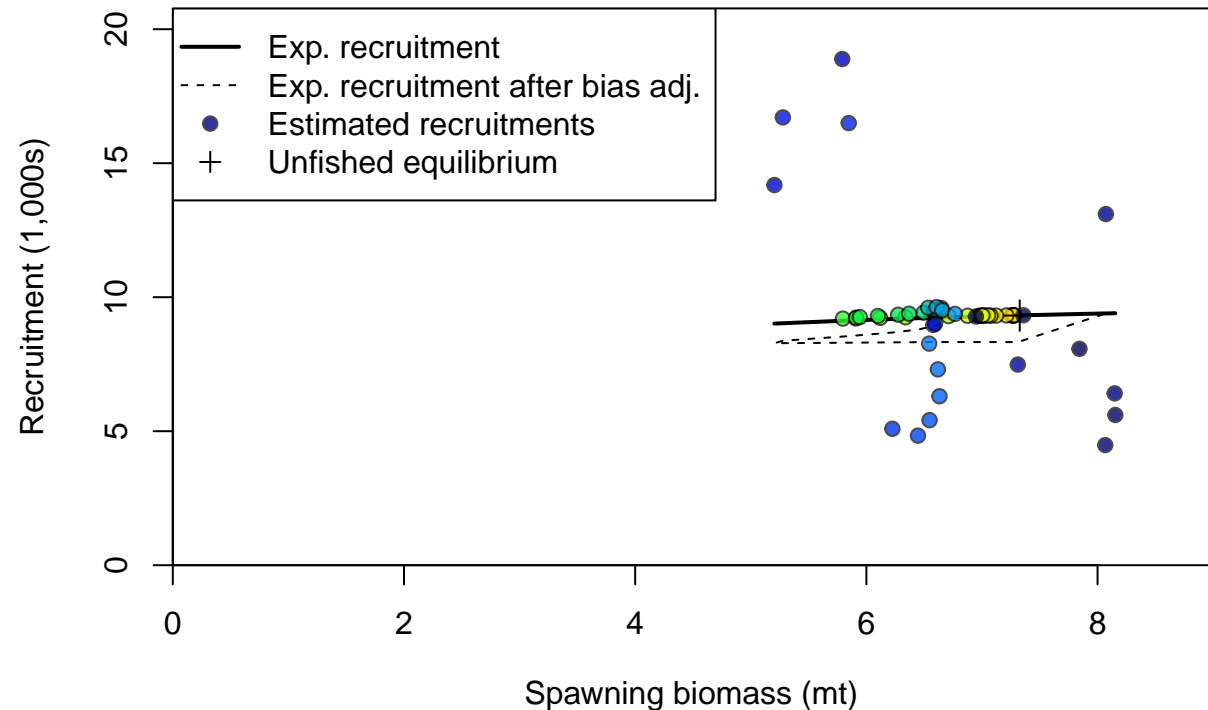
Log recruitment deviation

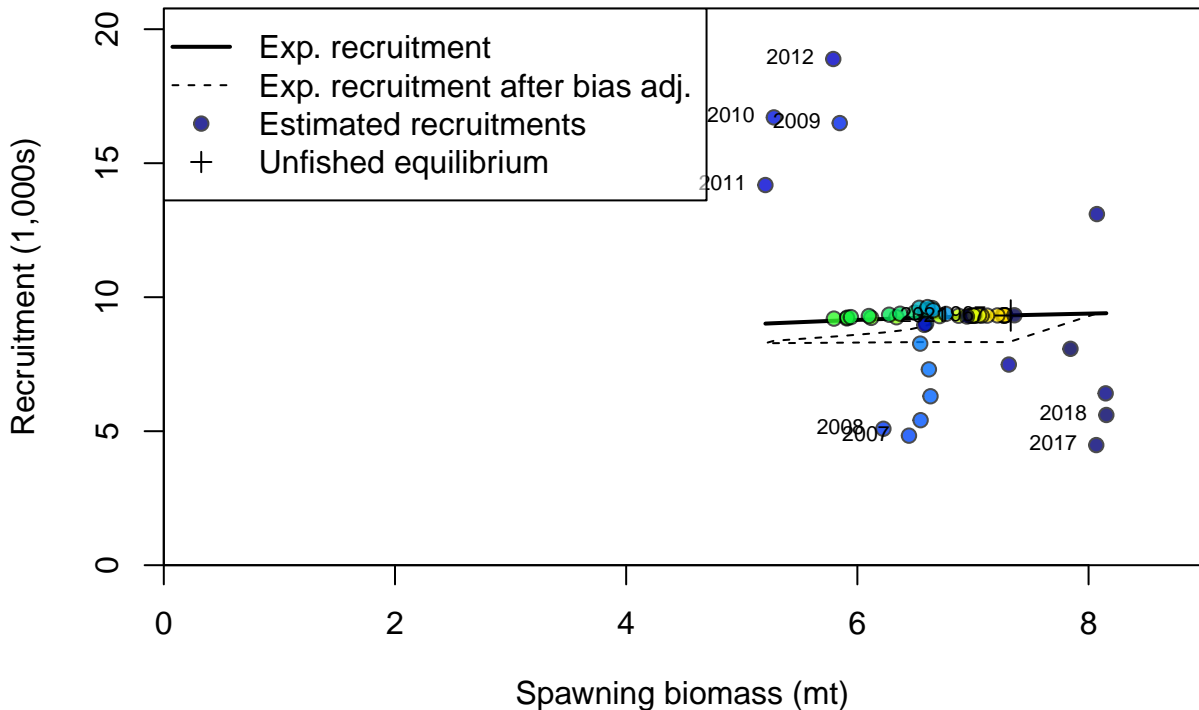


Recruitment deviation variance









Log recruitment deviation

0.5
0.0
-0.5

0.0

0.2

0.4

0.6

0.8

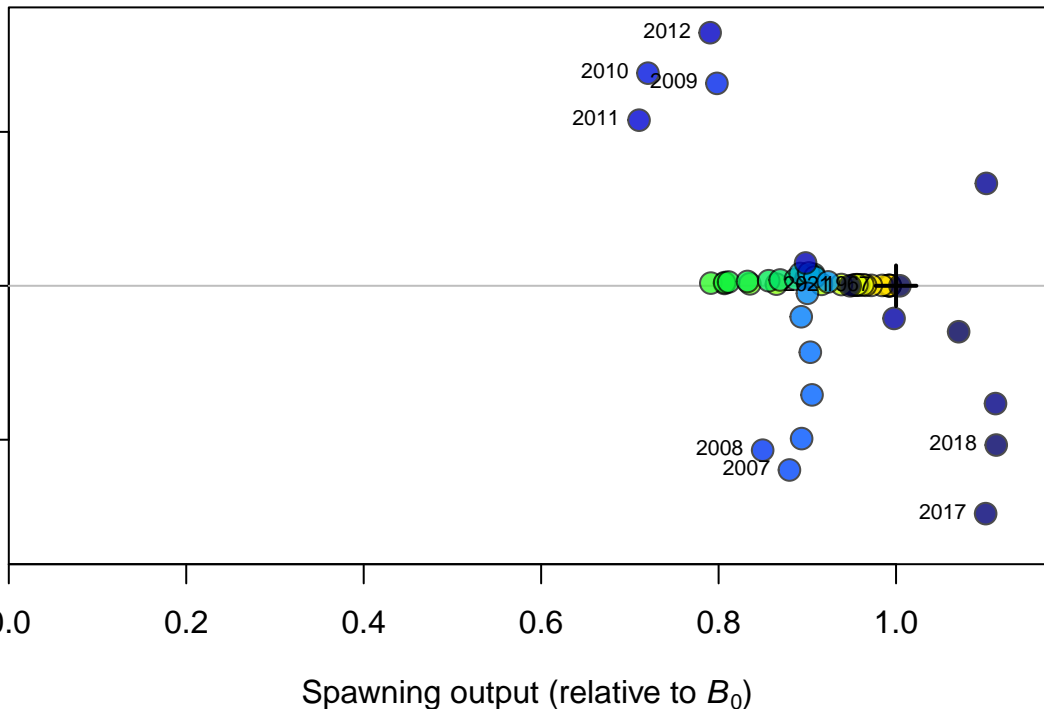
1.0

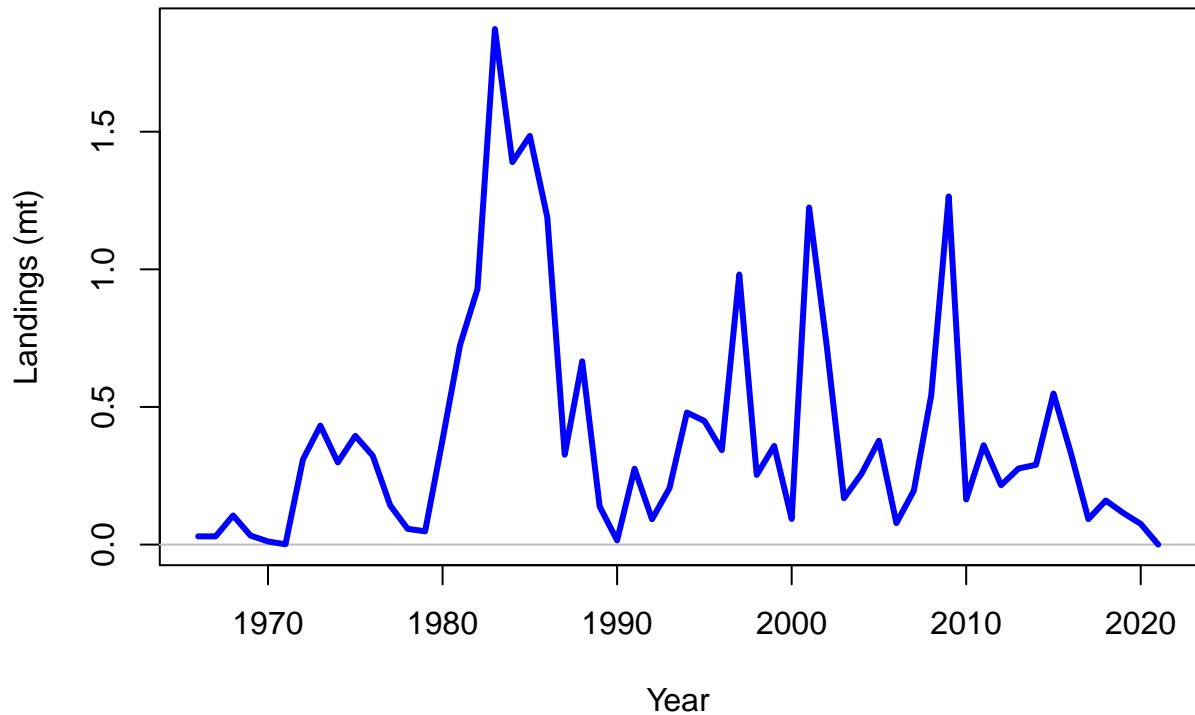
Spawning output (relative to B_0)

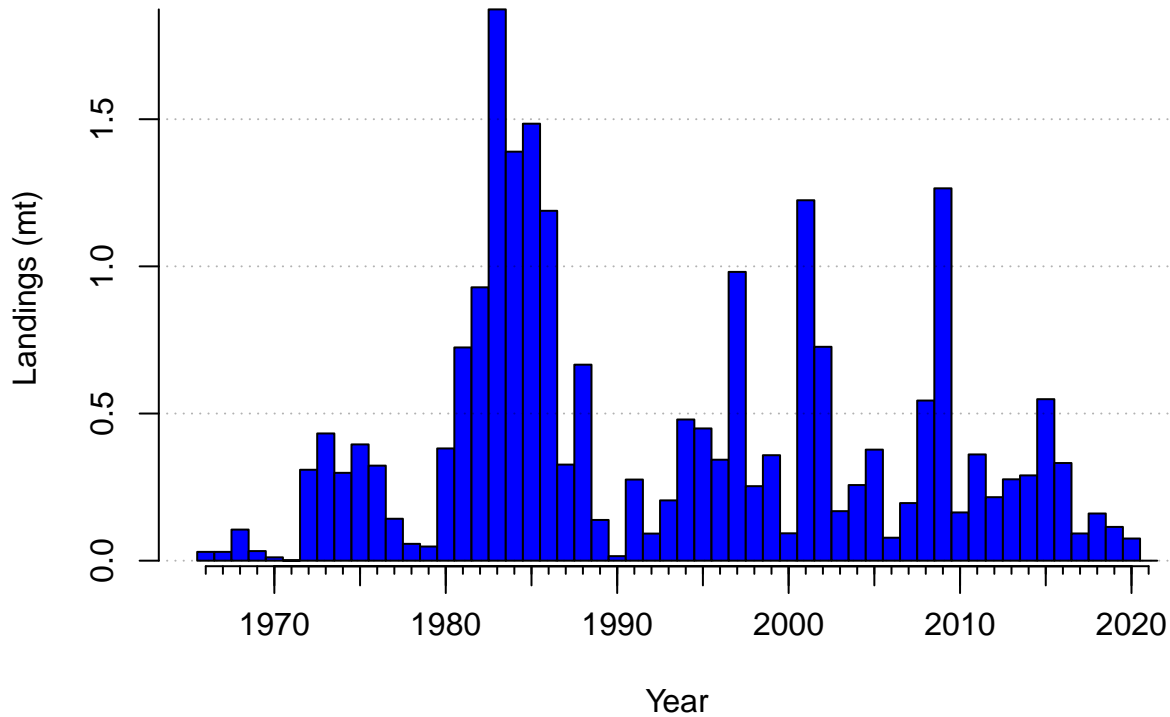
2012
2010
2009
2011

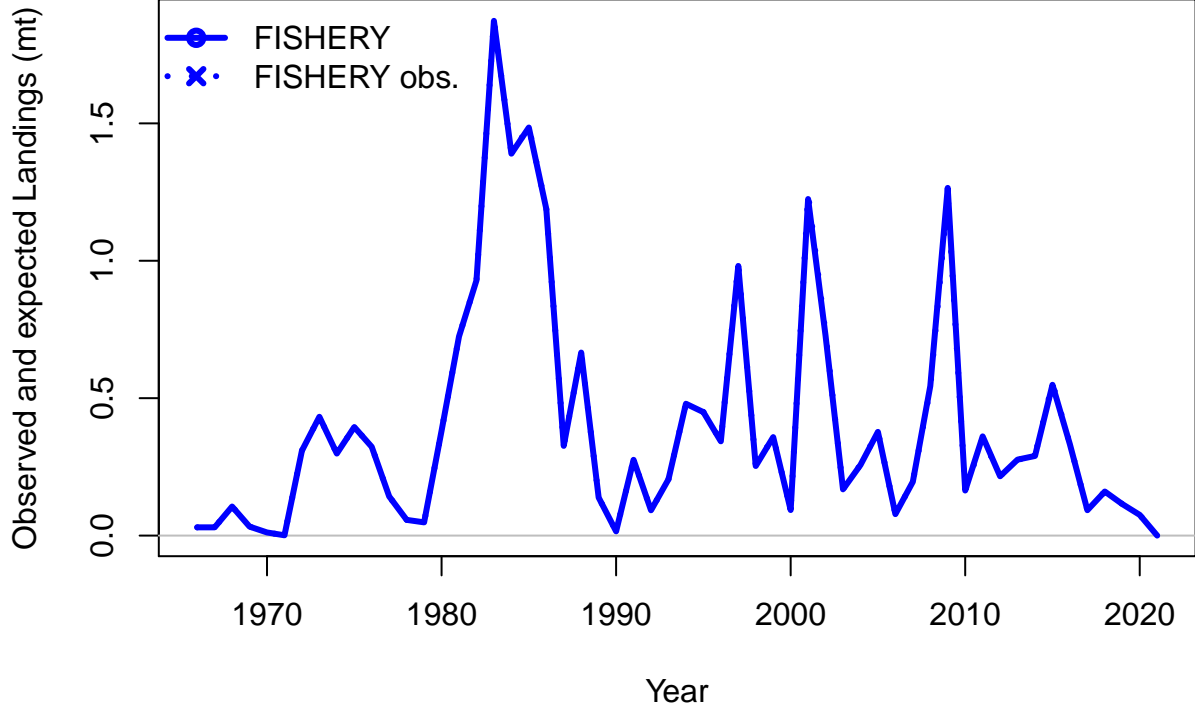
2008
2007

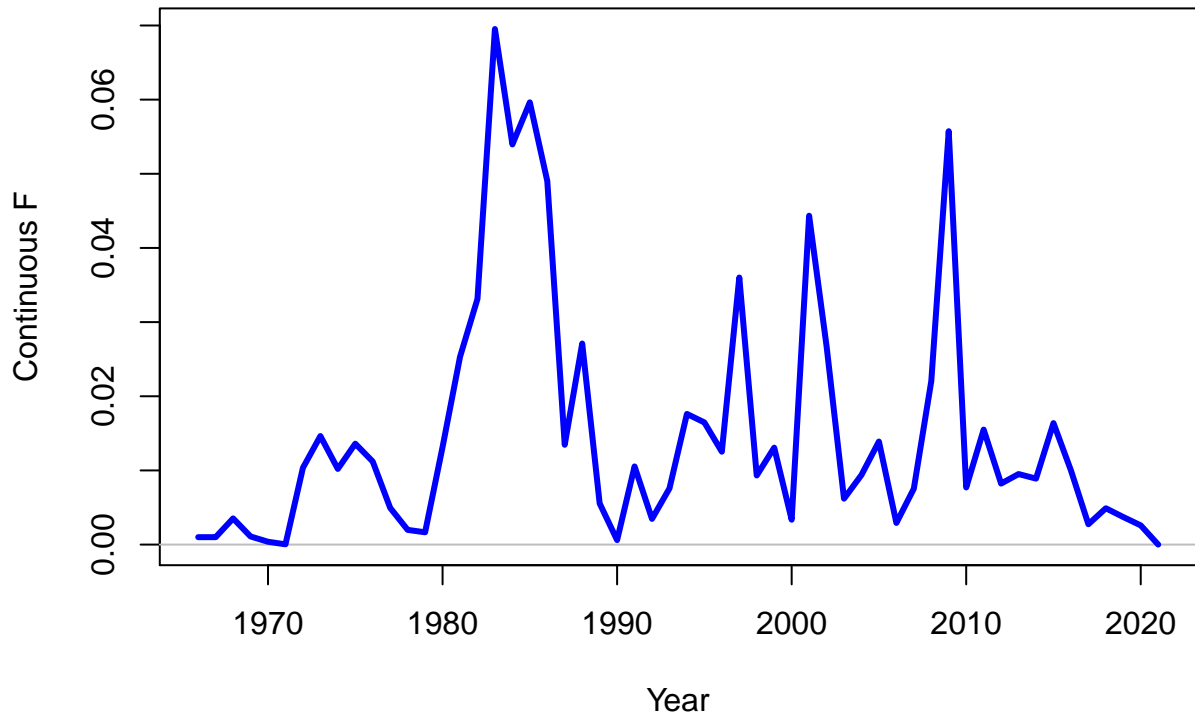
2018
2017



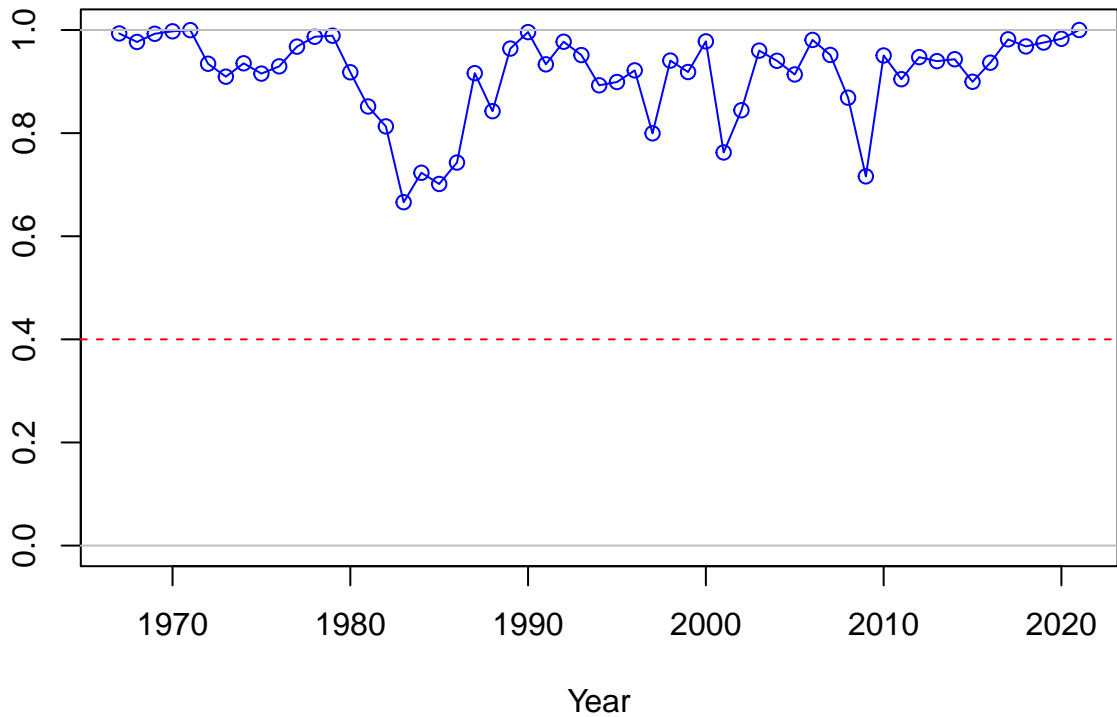




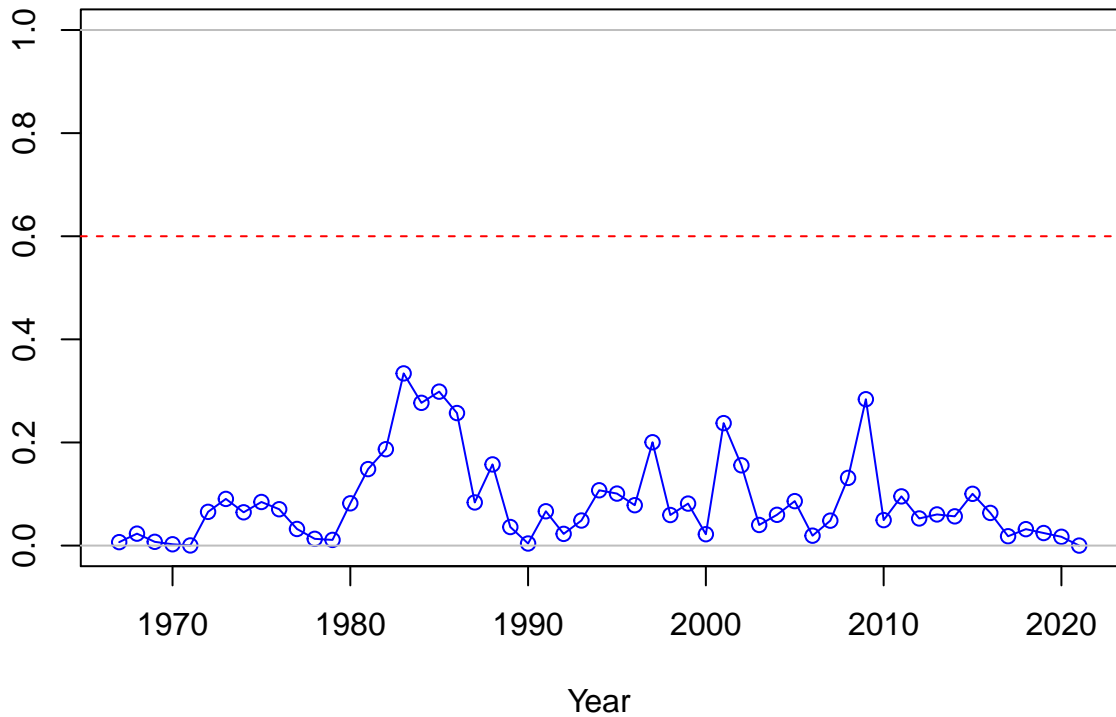




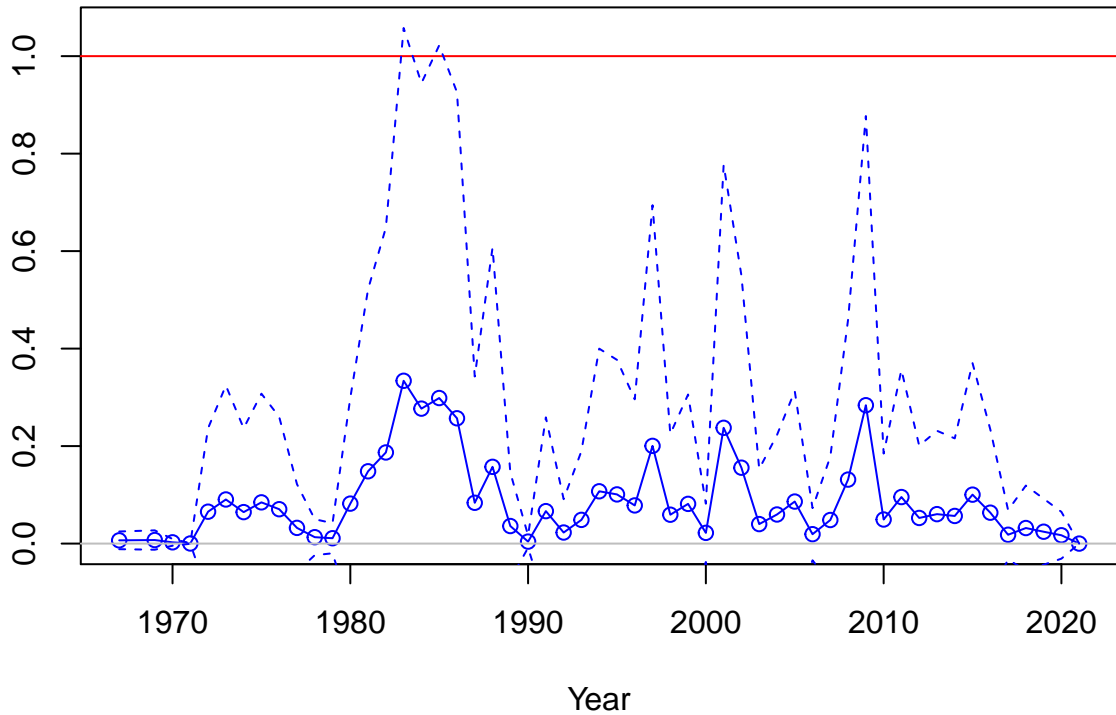
SPR



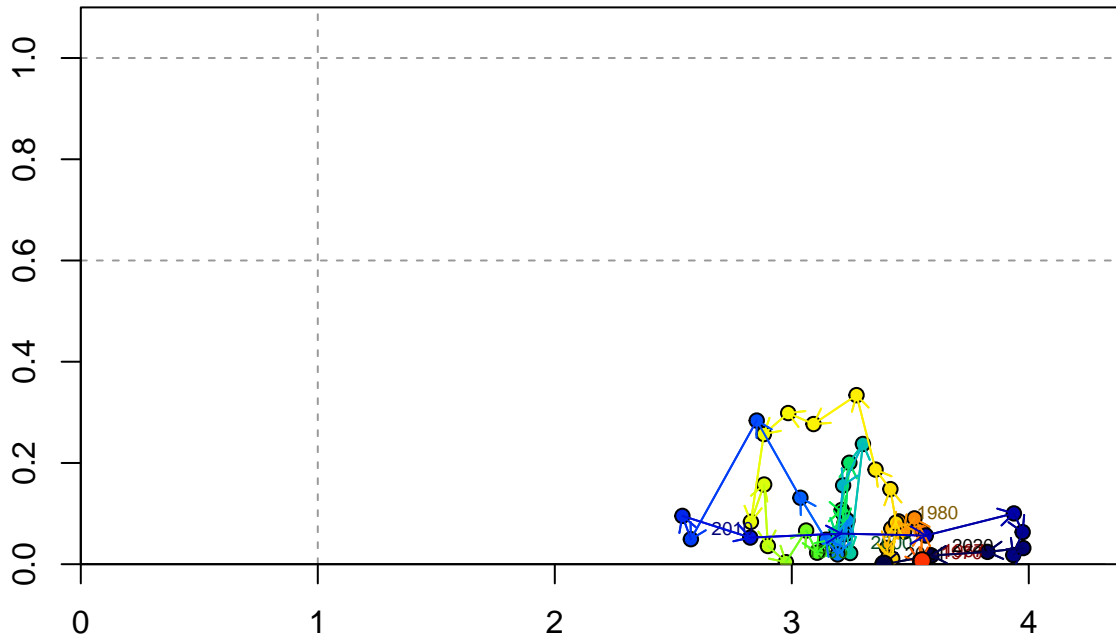
1-SPR



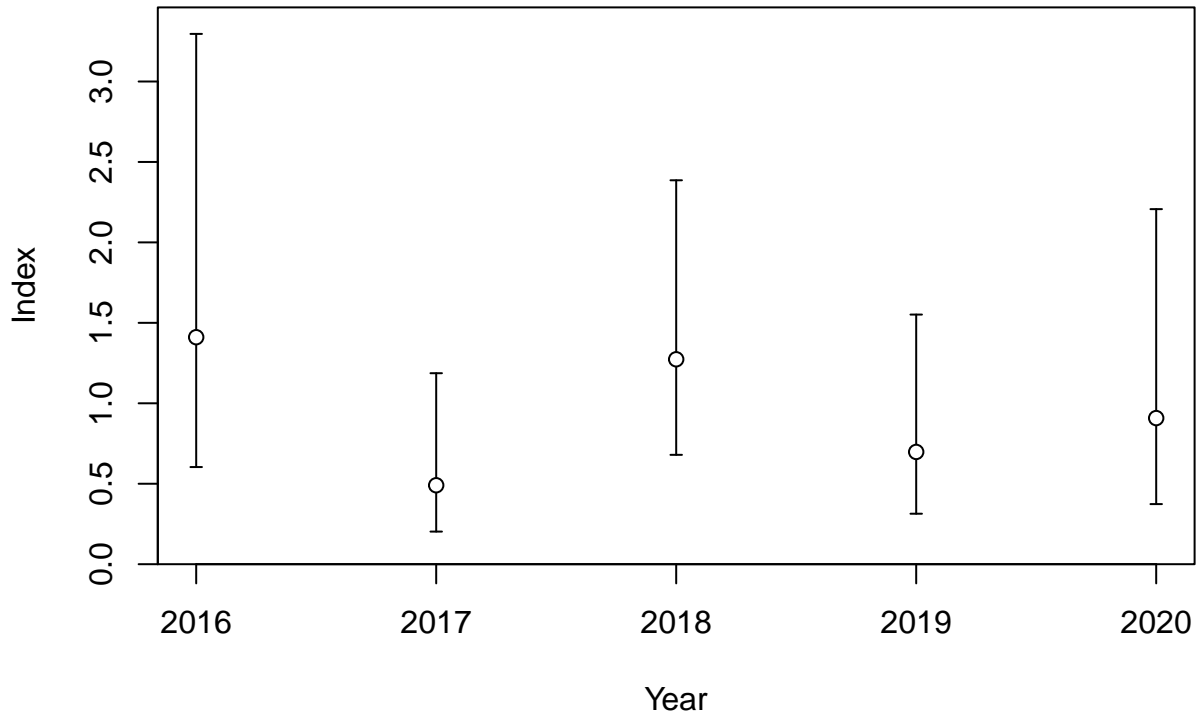
Fishing intensity: 1-SPR



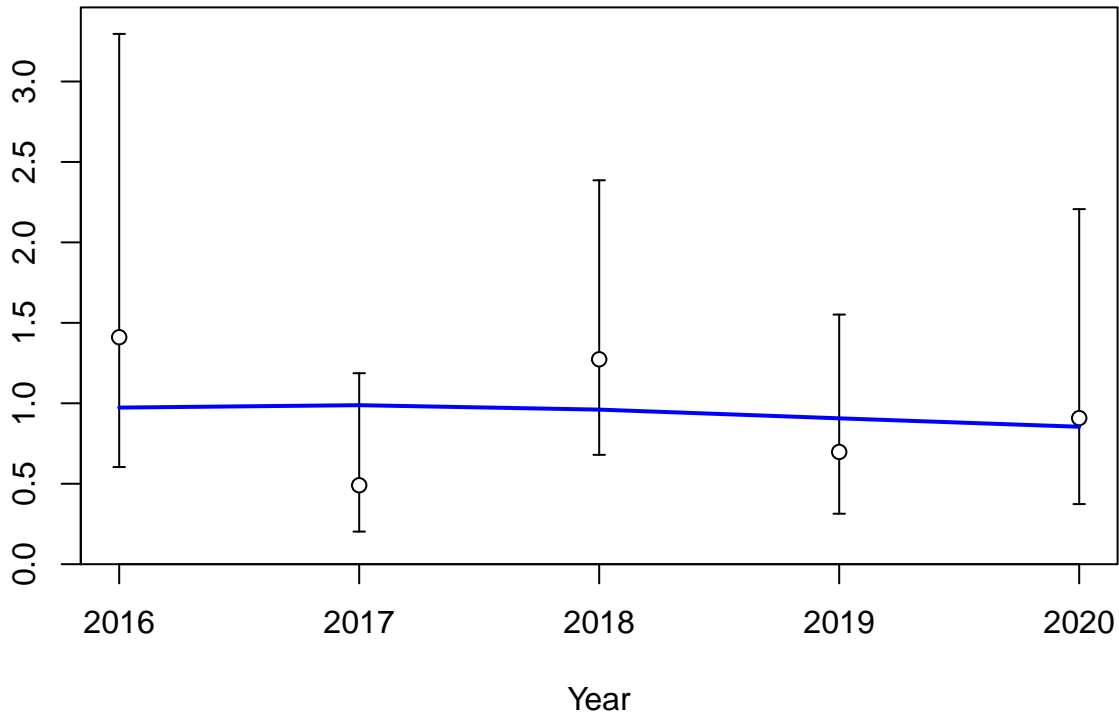
Fishing intensity: 1-SPR

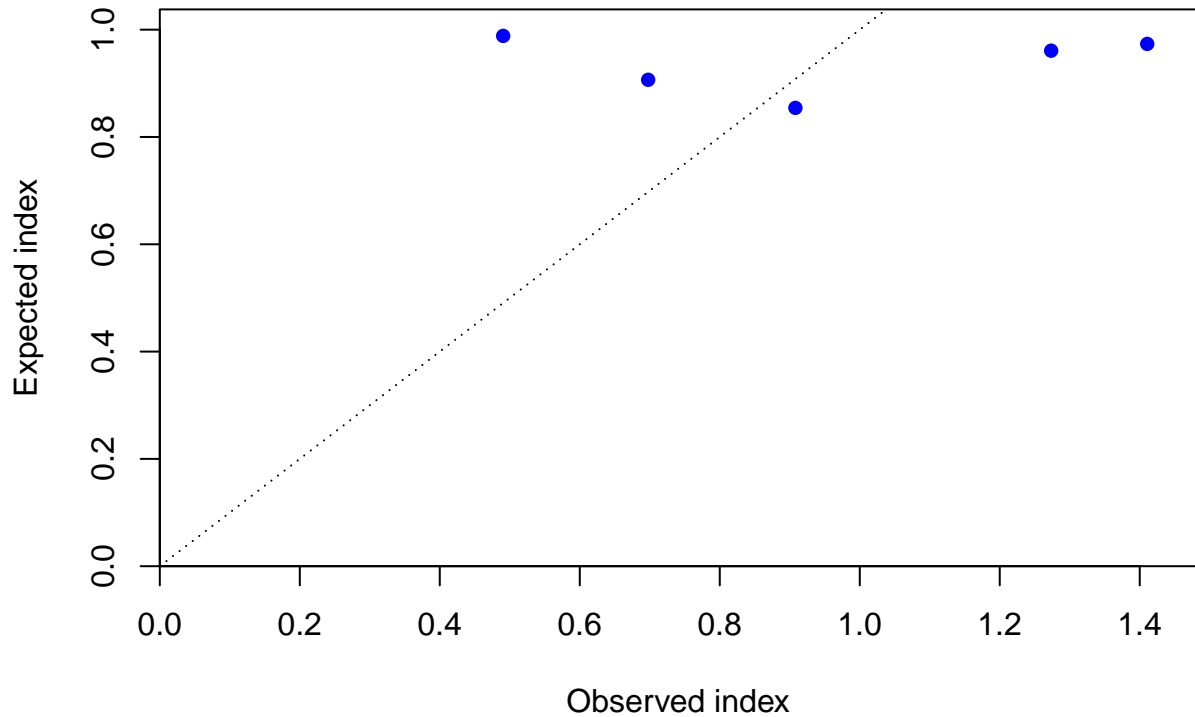


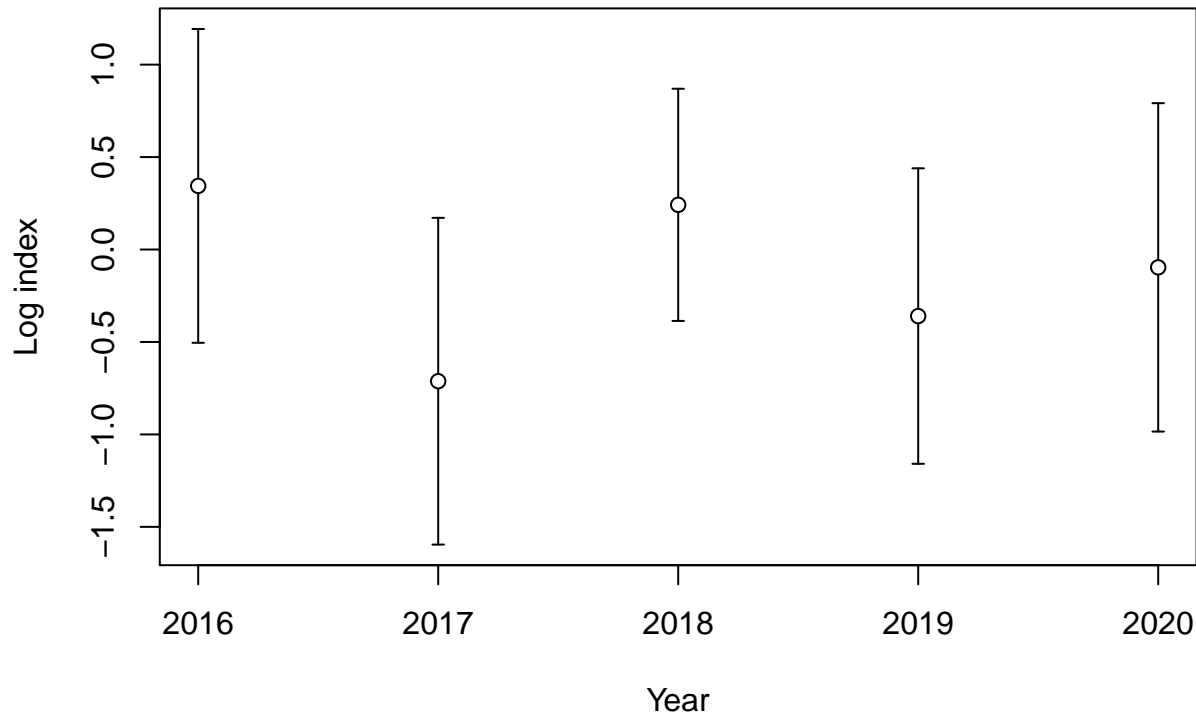
Relative spawning output: B/B_{MS}

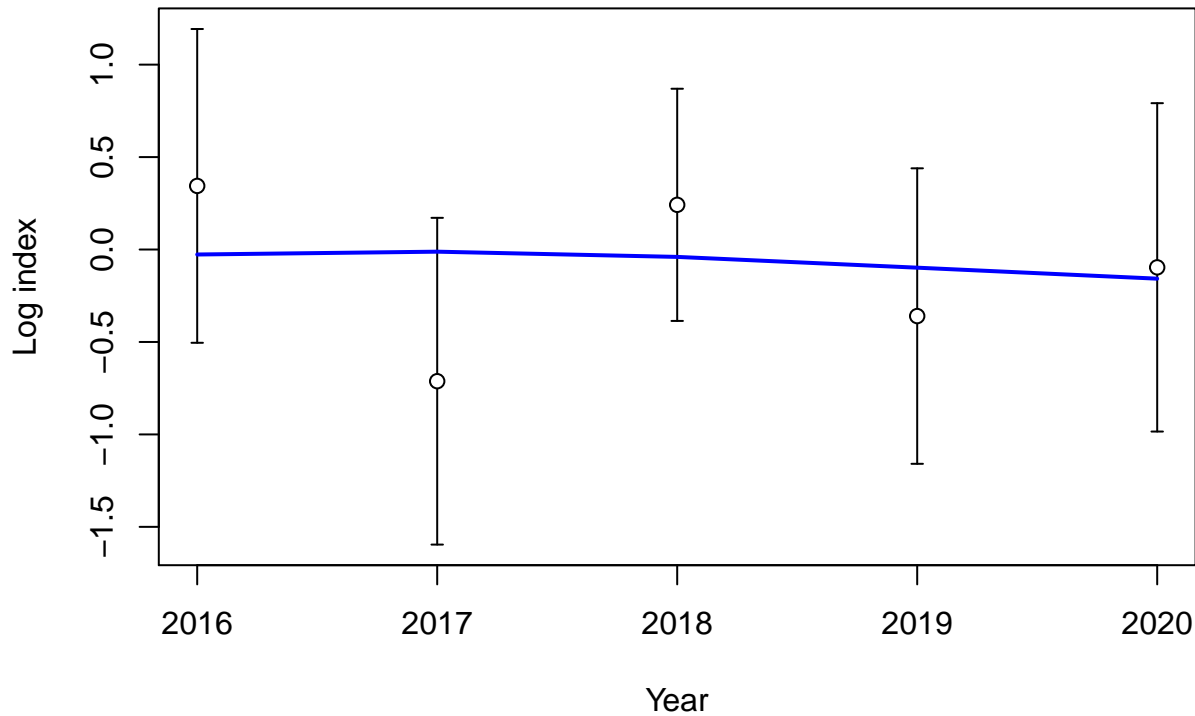


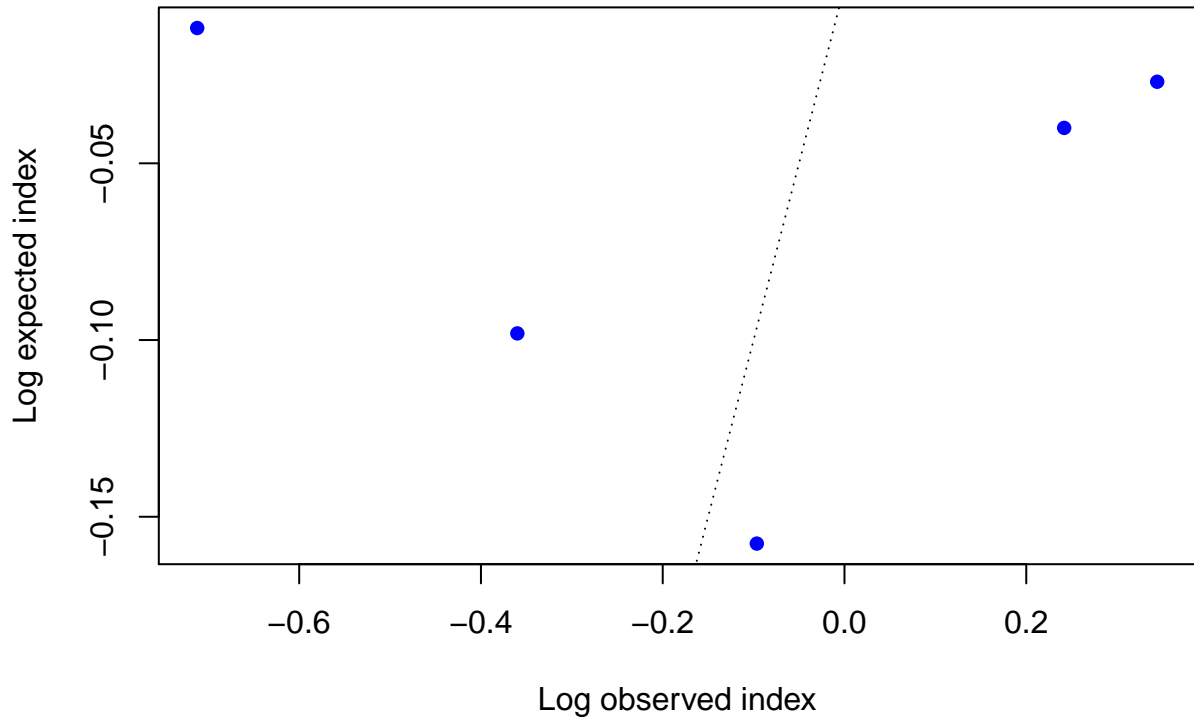
Index



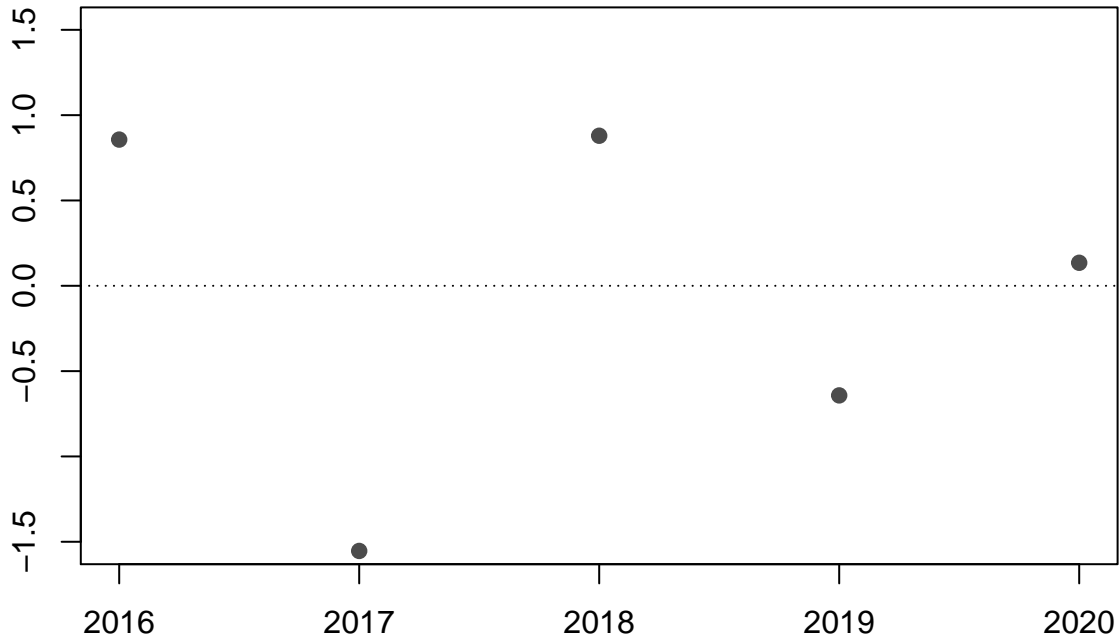




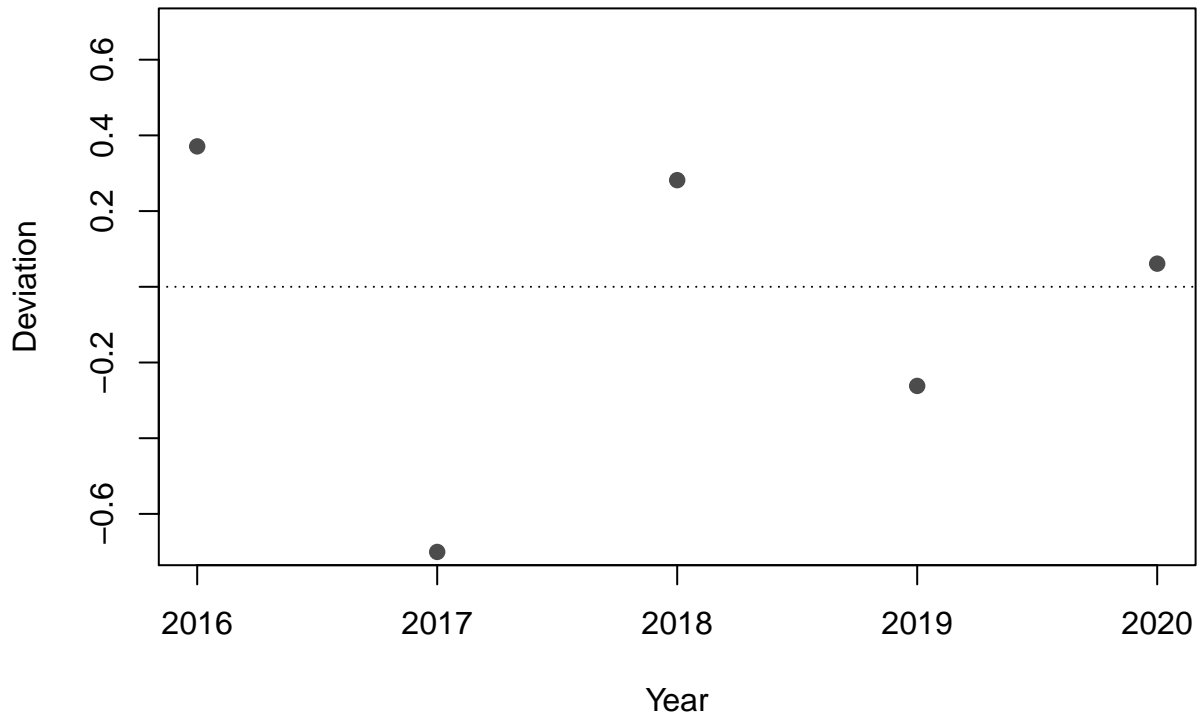


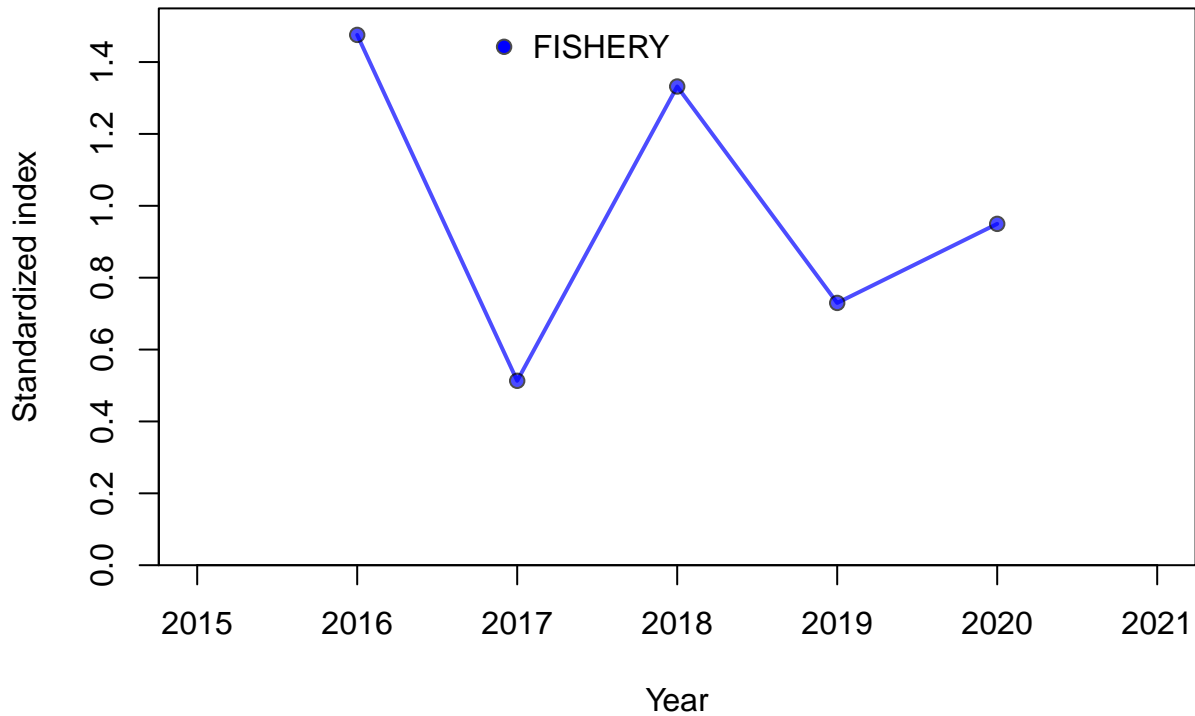


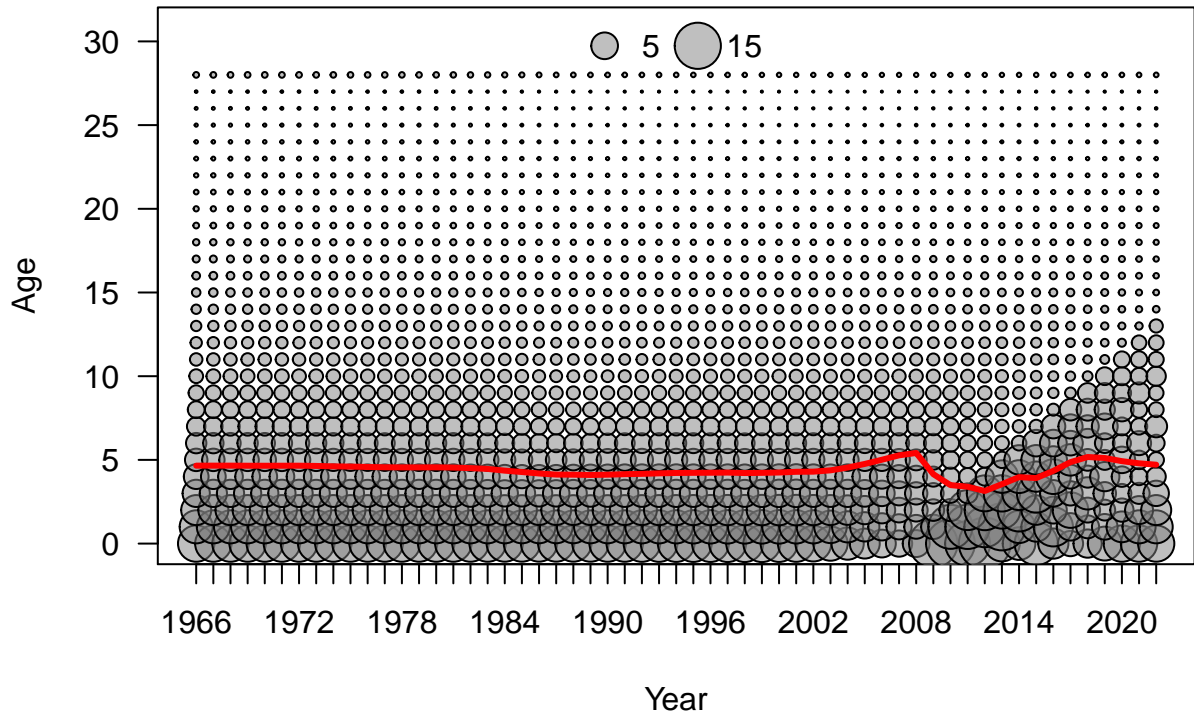
Residual

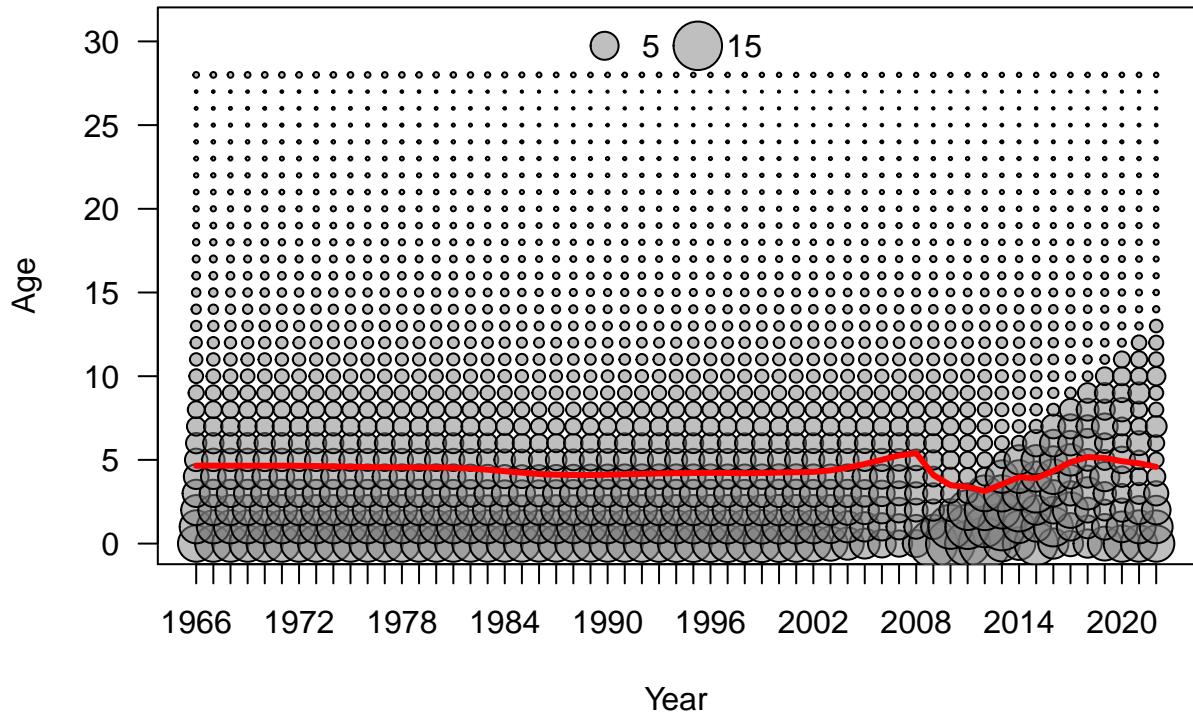


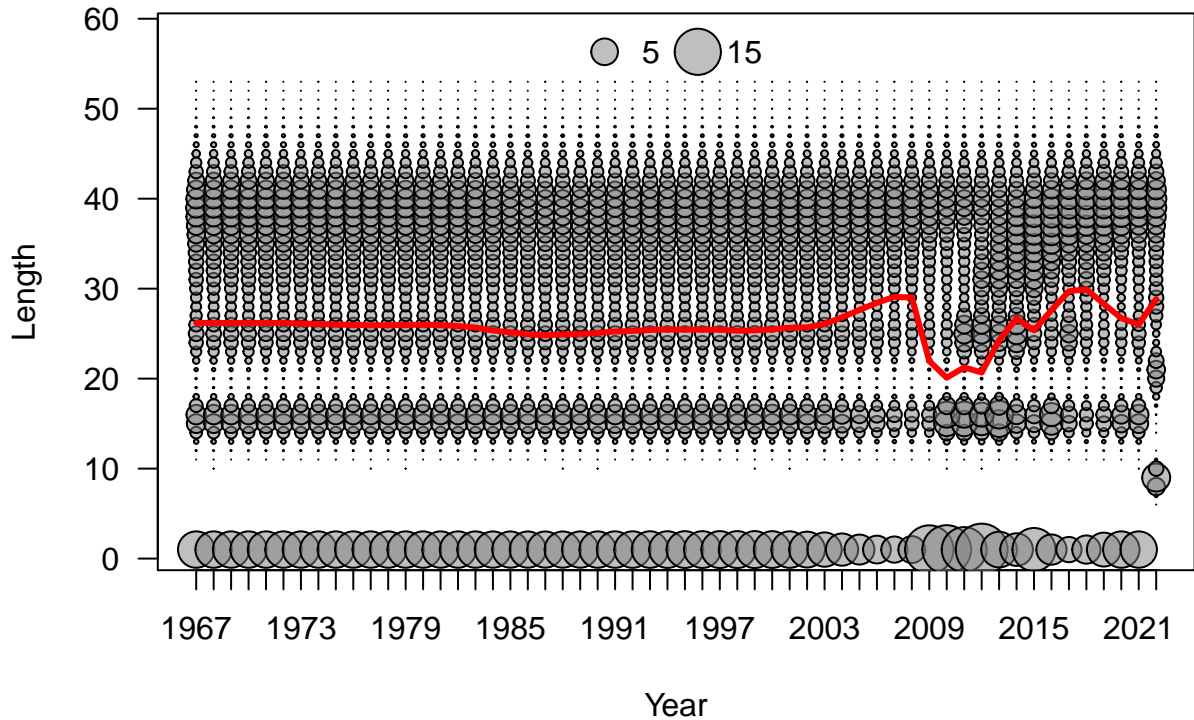
Year

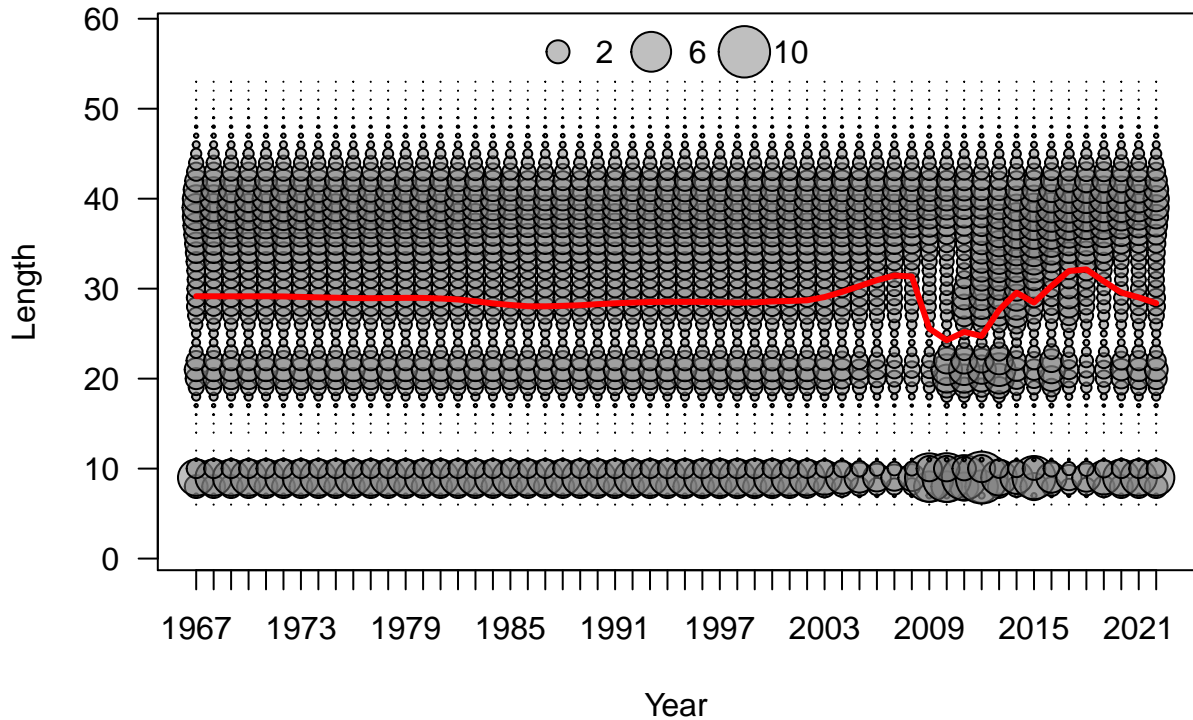


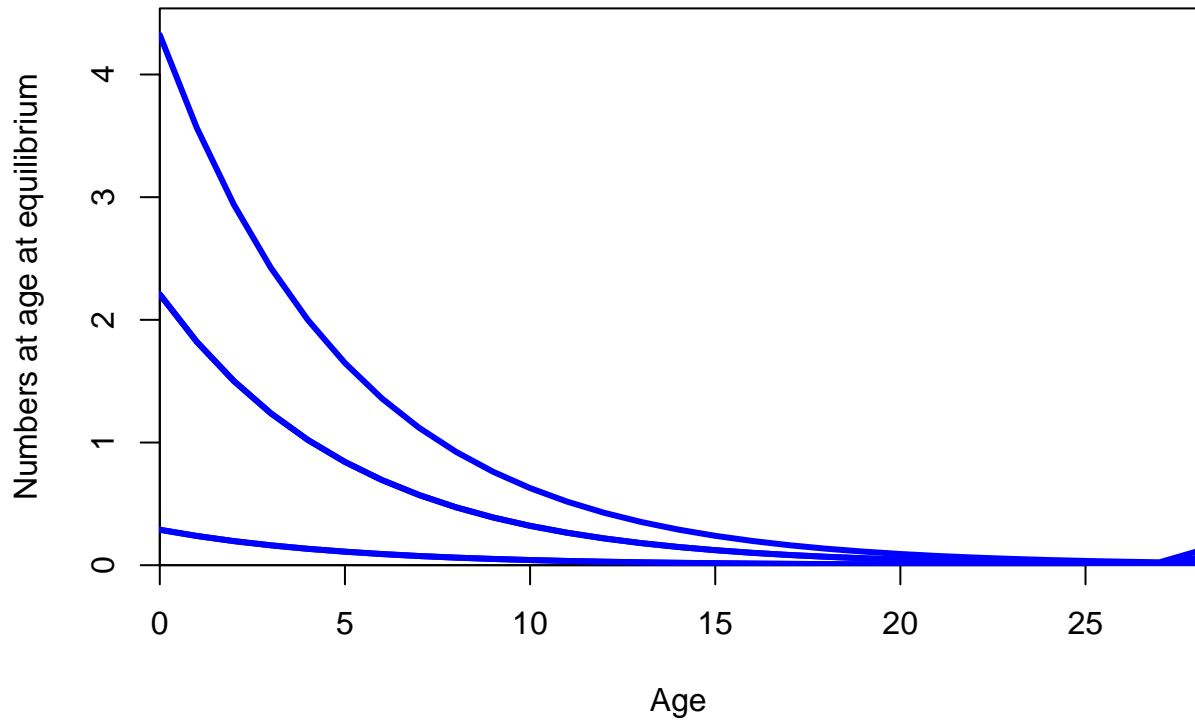






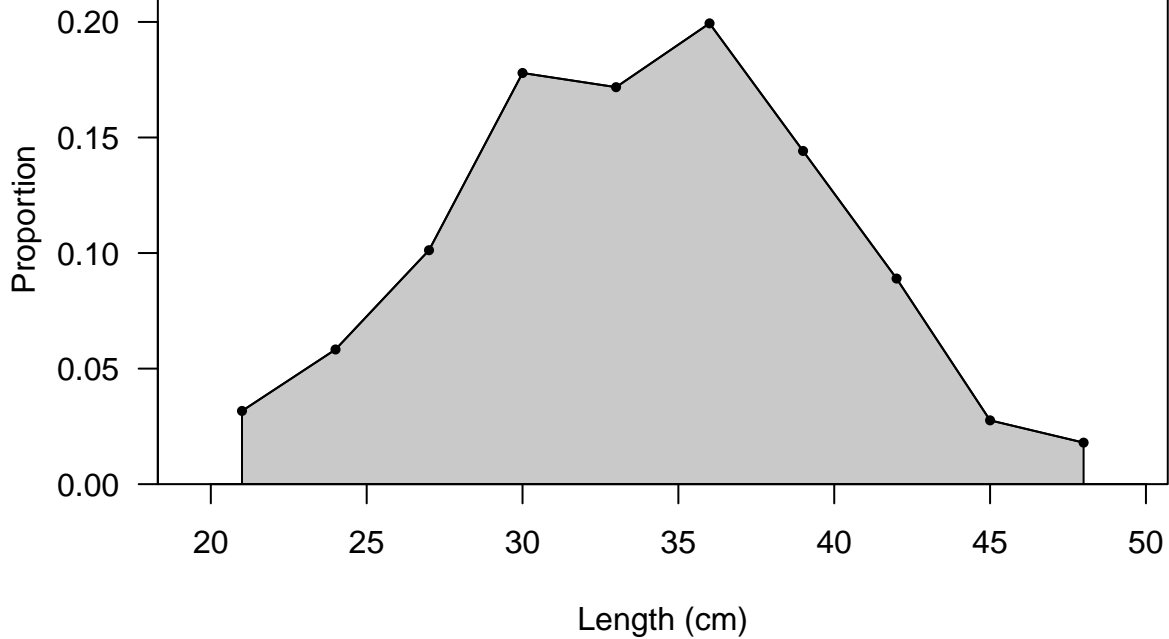


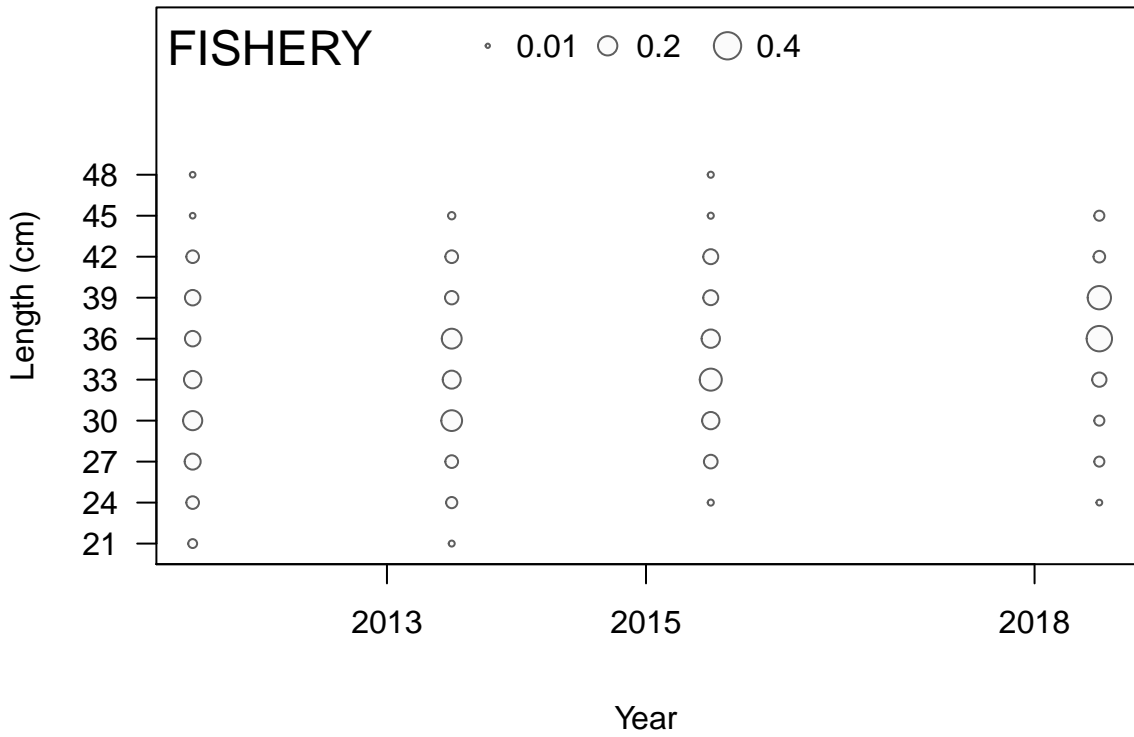




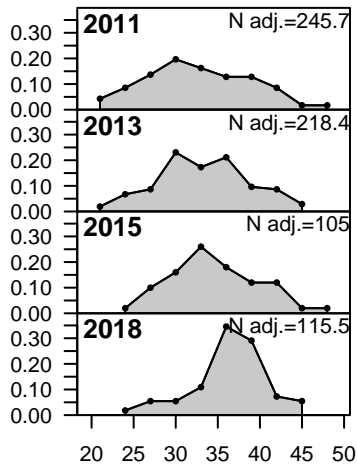
FISHERY

Sum of N adj.=684.6

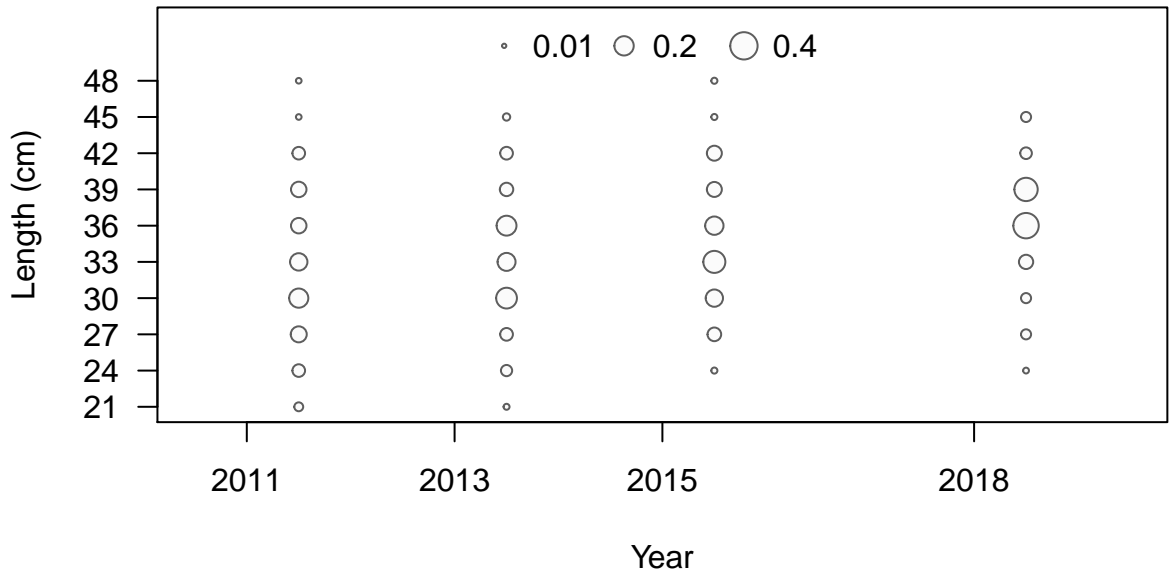




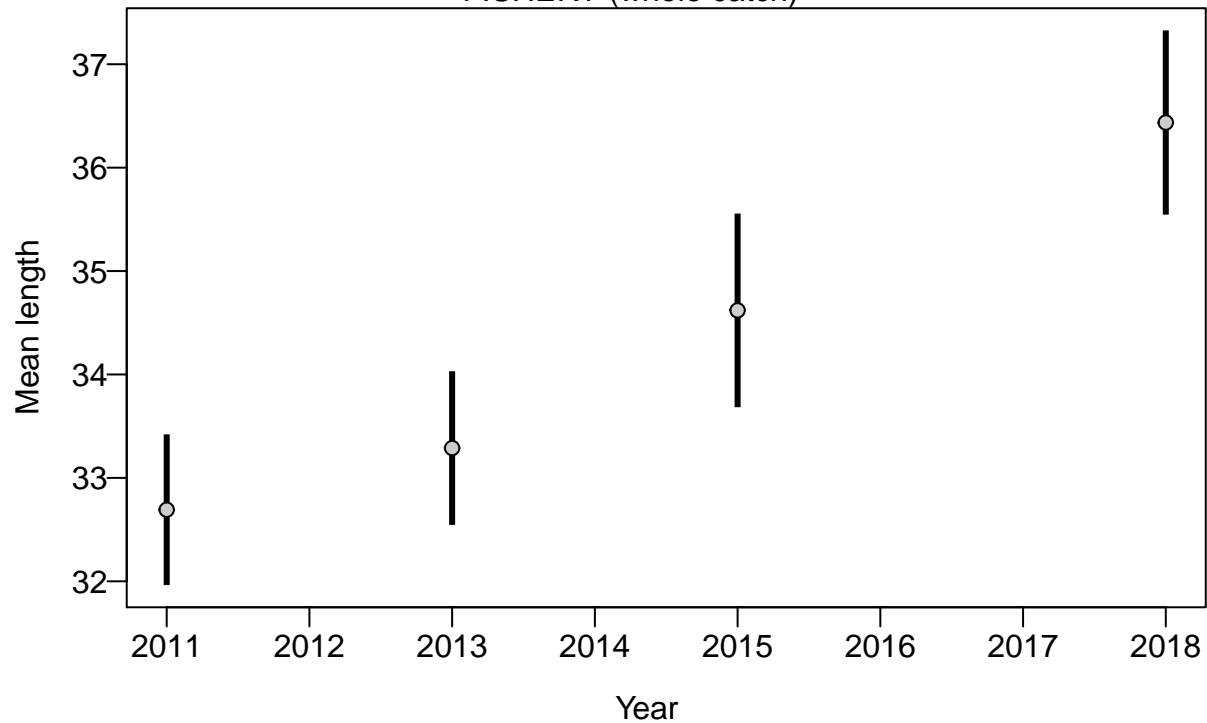
Proportion



Length (cm)

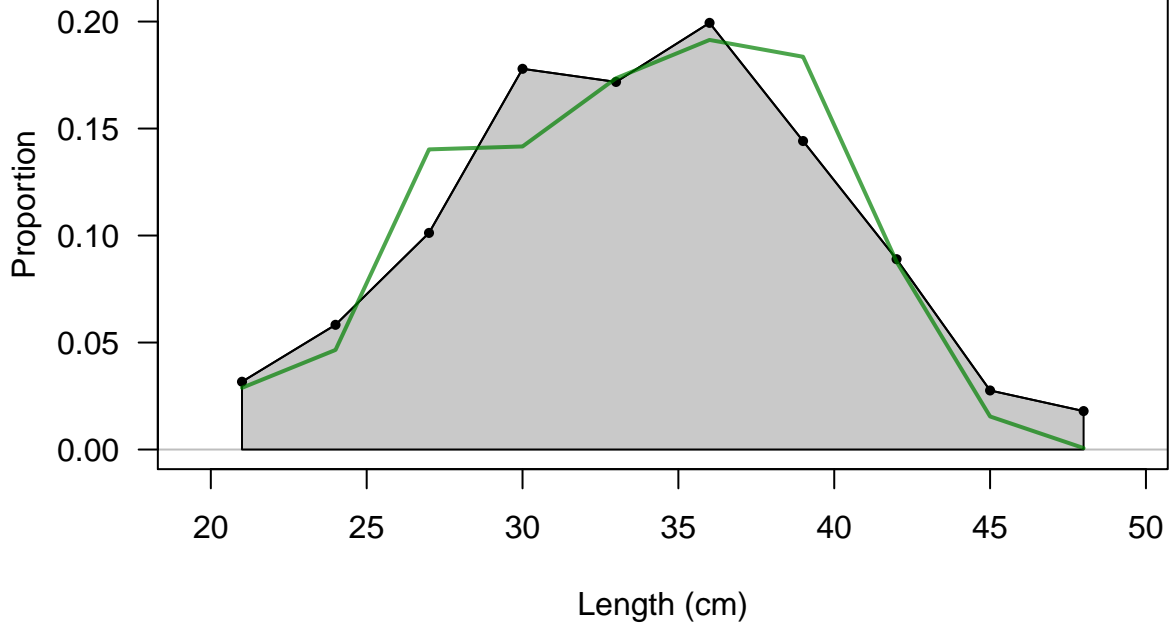


FISHERY (whole catch)



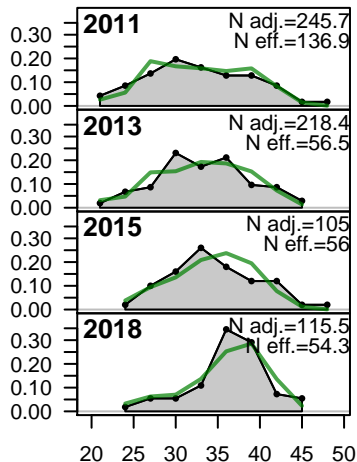
FISHERY

Sum of N adj.=684.6
Sum of N eff.=303.7

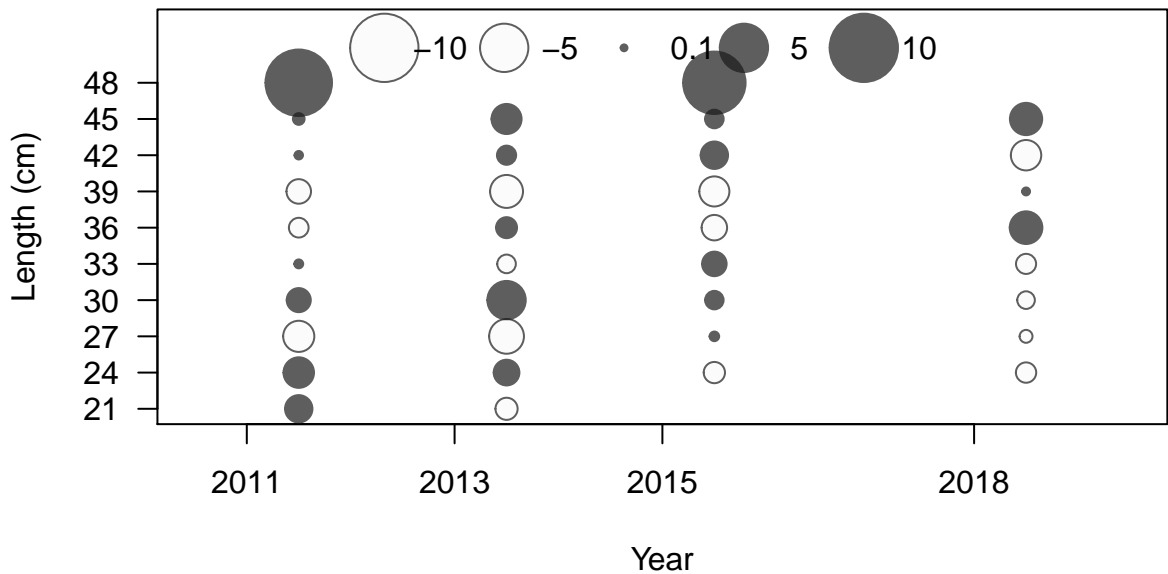


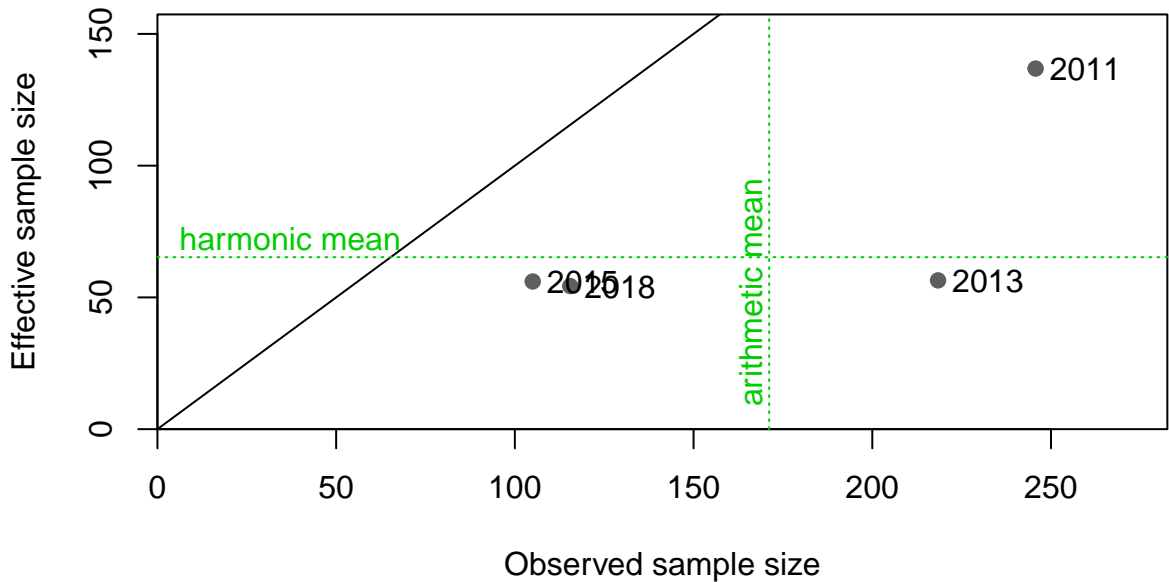


Proportion

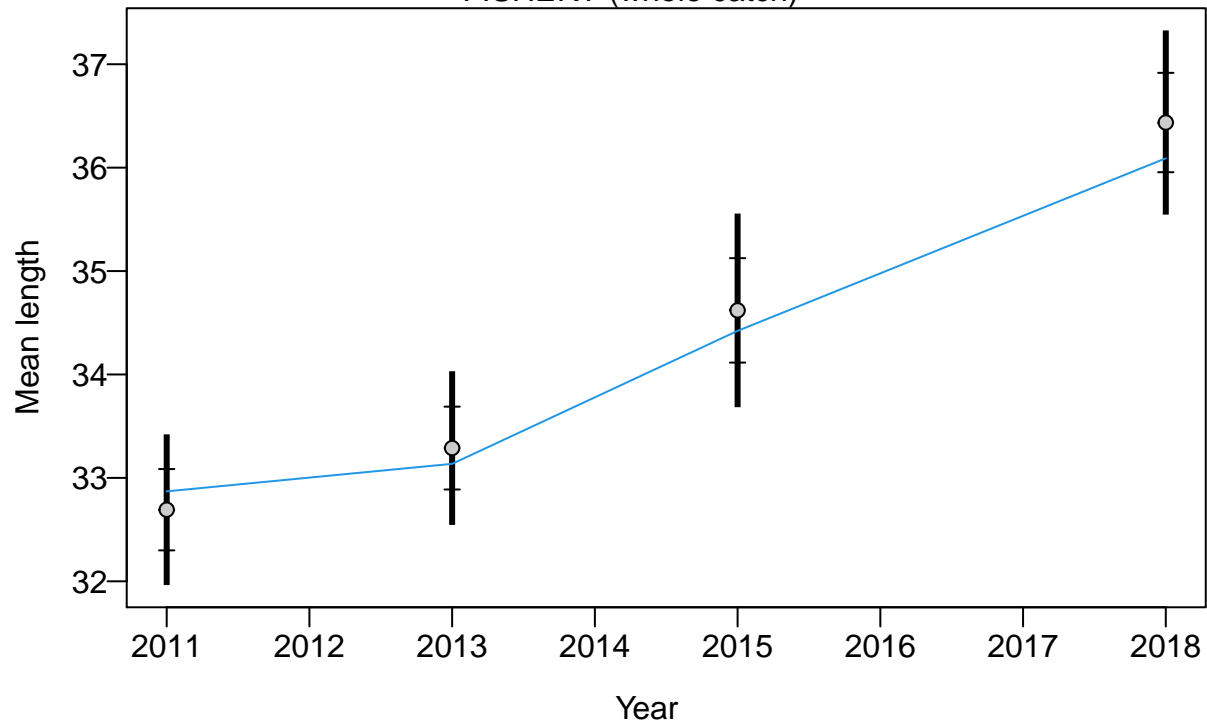


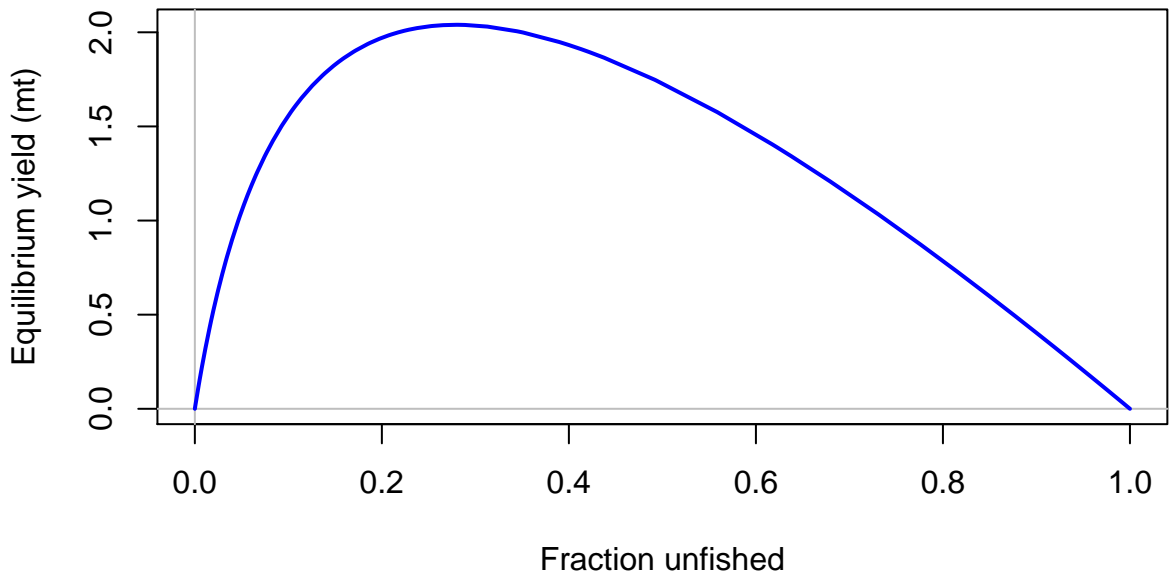
Length (cm)

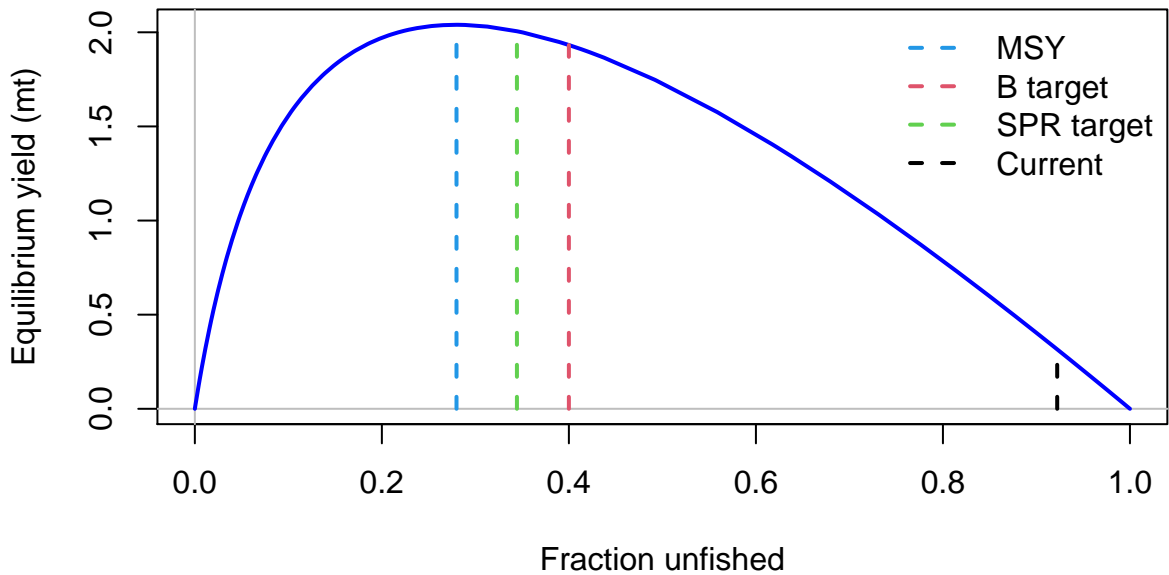


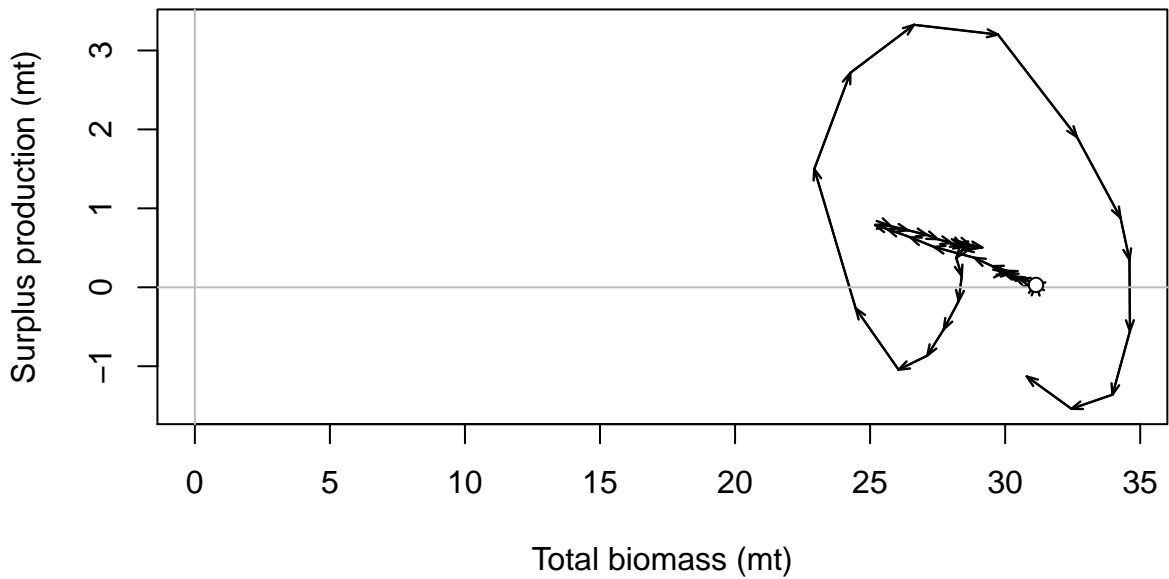


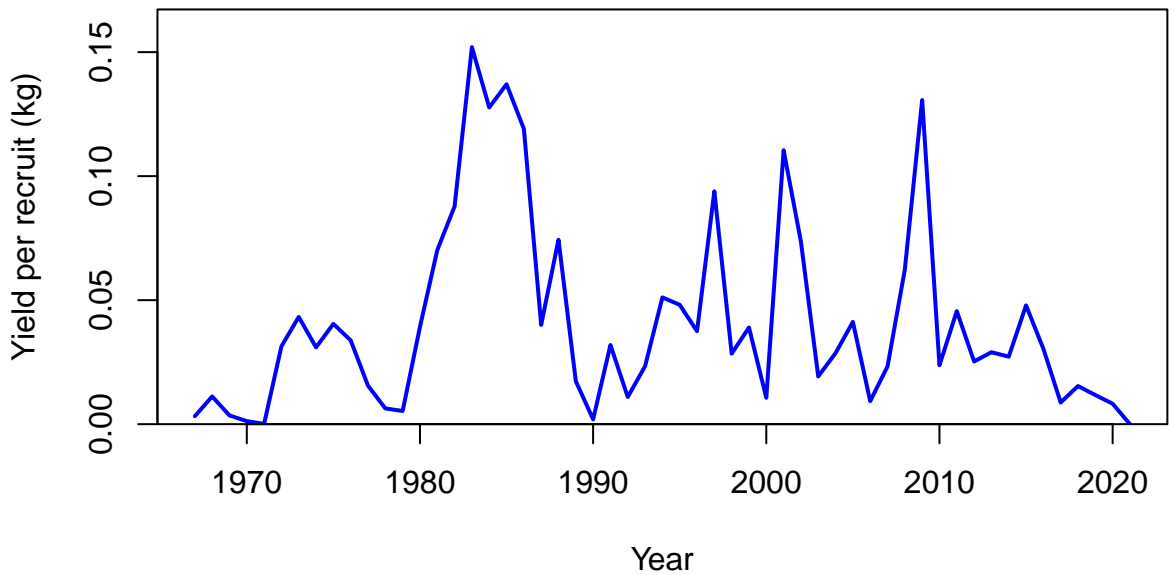
FISHERY (whole catch)

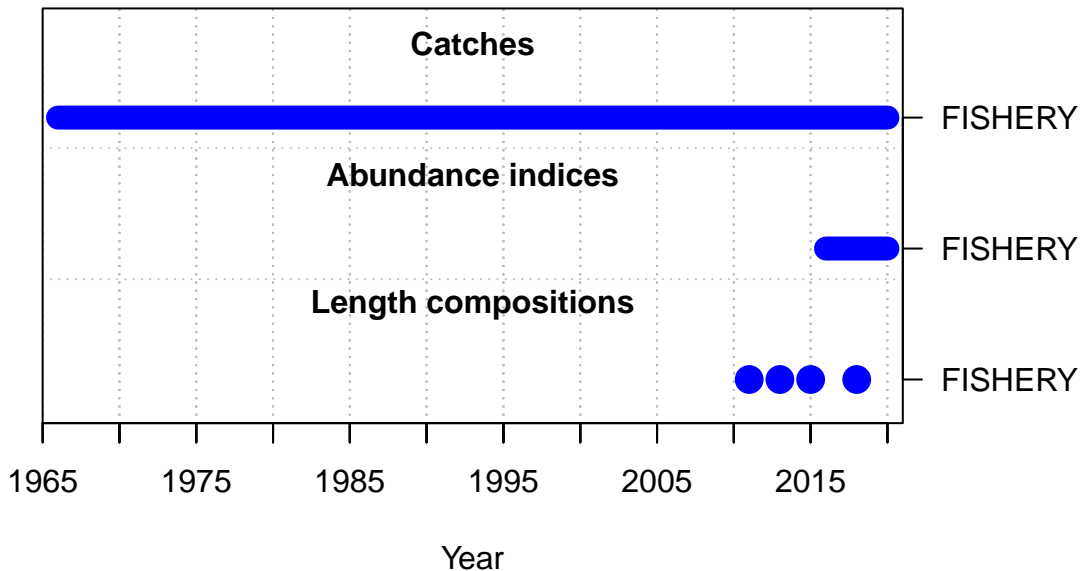


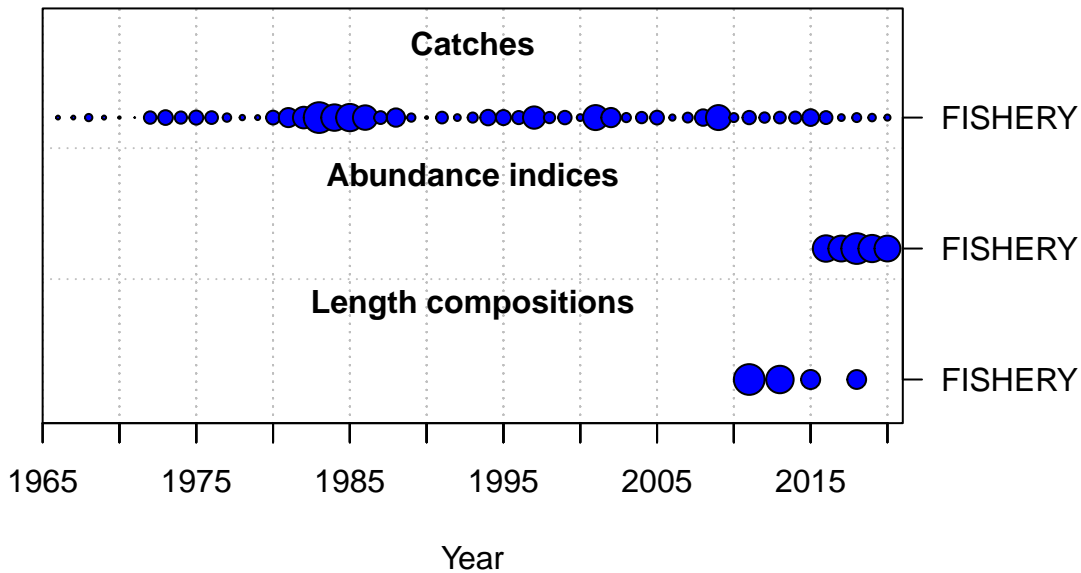




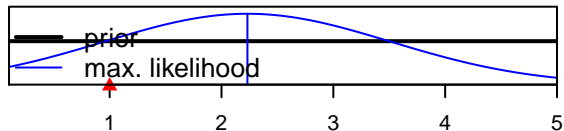




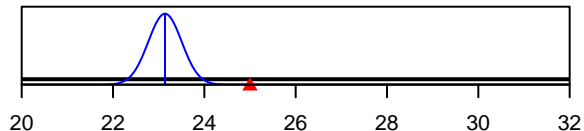




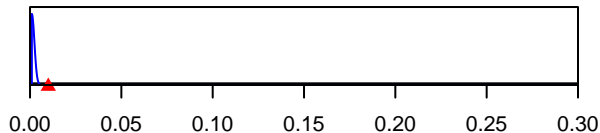
SR_LN(R0)



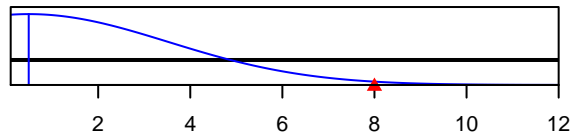
Size_inflection_FISHERY(1)



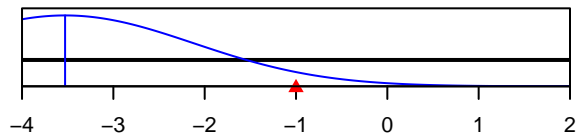
InitF_seas_1_flt_1FISHERY



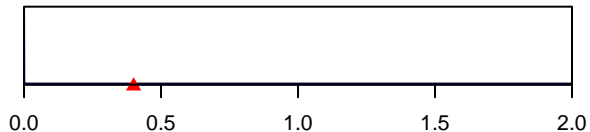
Size_95%width_FISHERY(1)



LnQ_base_FISHERY(1)



Q_extraSD_FISHERY(1)



Parameter value