

Plots created using the 'r4ss' package in R

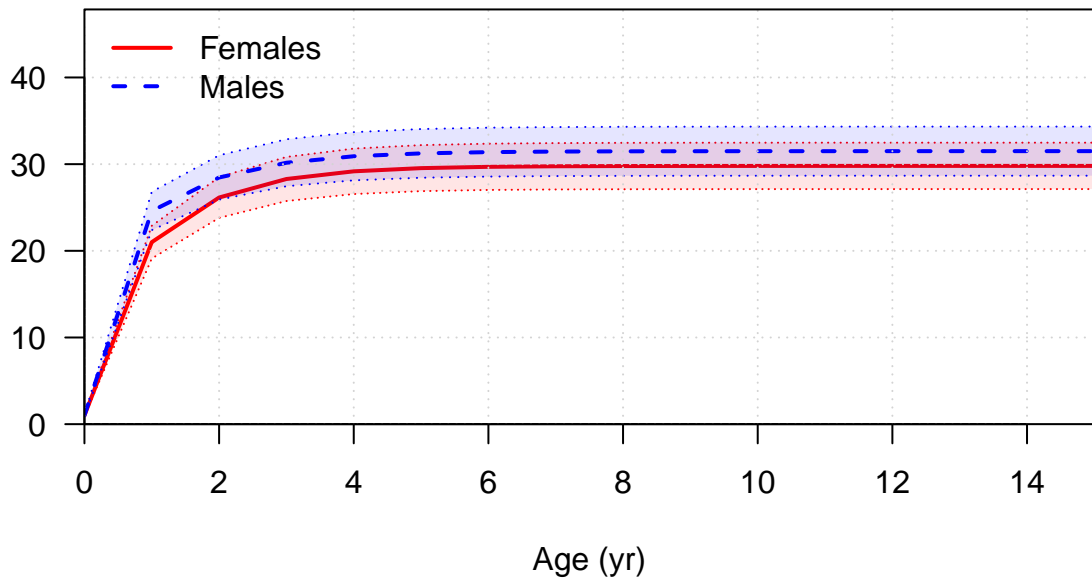
Stock Synthesis version: 3.30.19.0

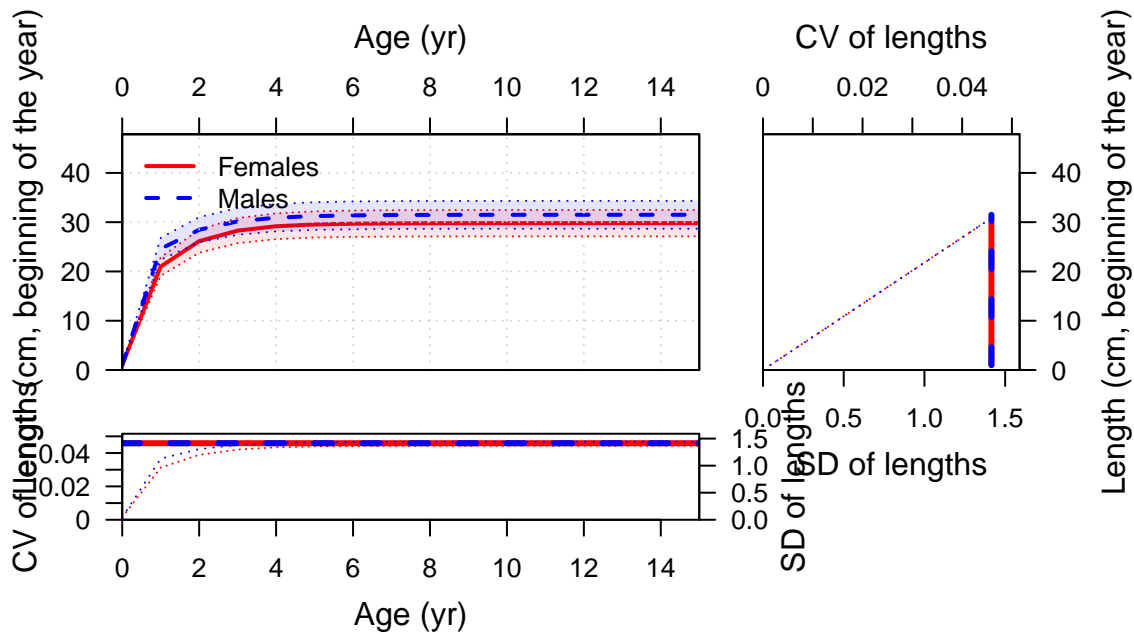
StartTime: Thu Sep 22 13:46:30 2022

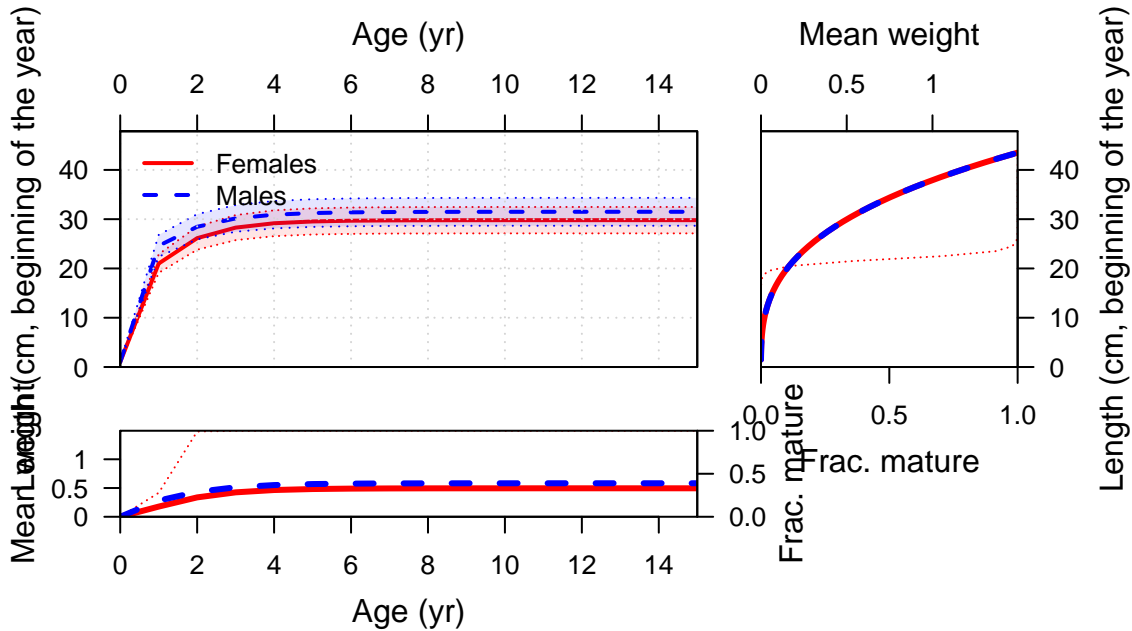
Data_File: data.ss

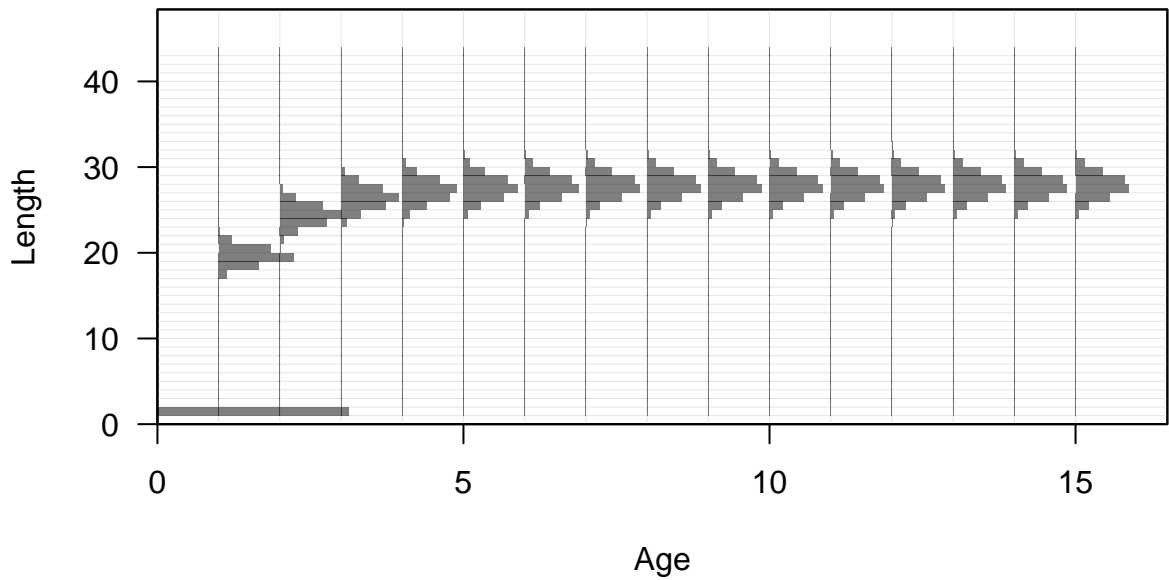
Control_File: control.ss

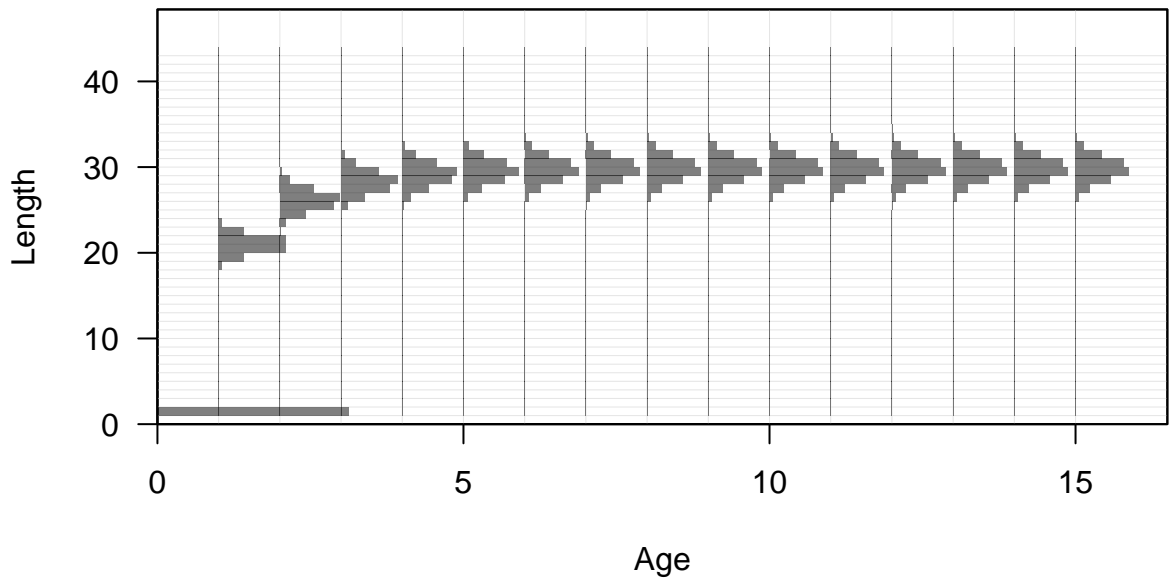
Length (cm, beginning of the year)

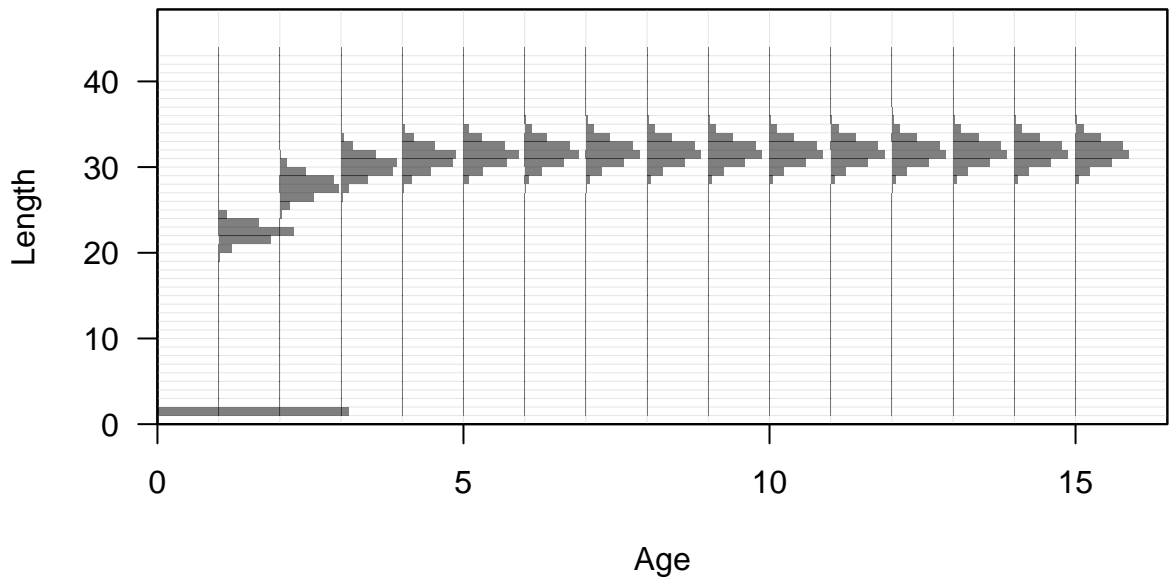


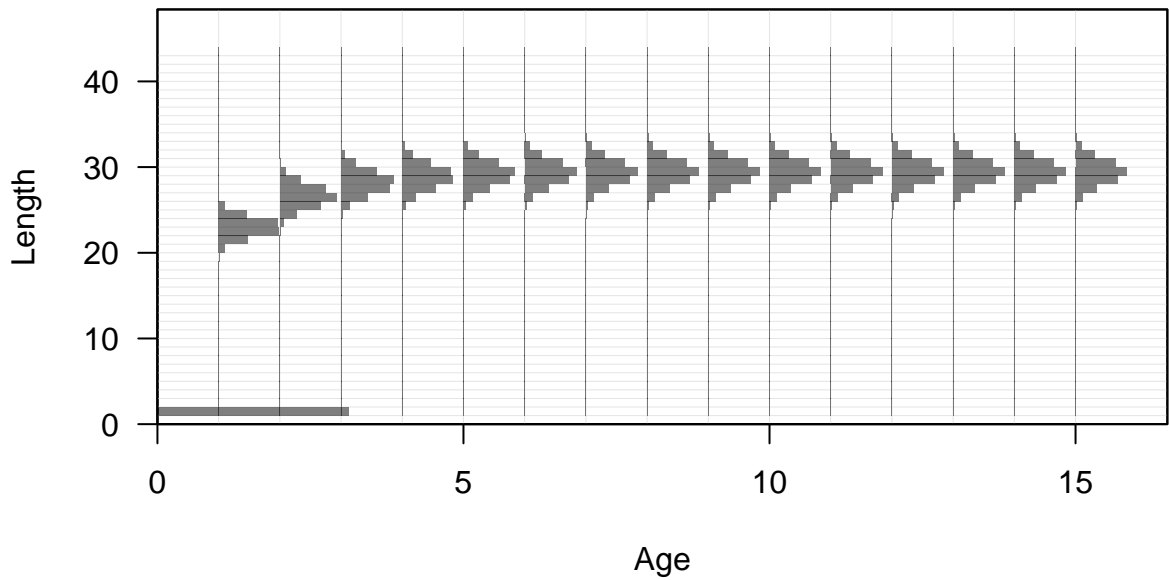


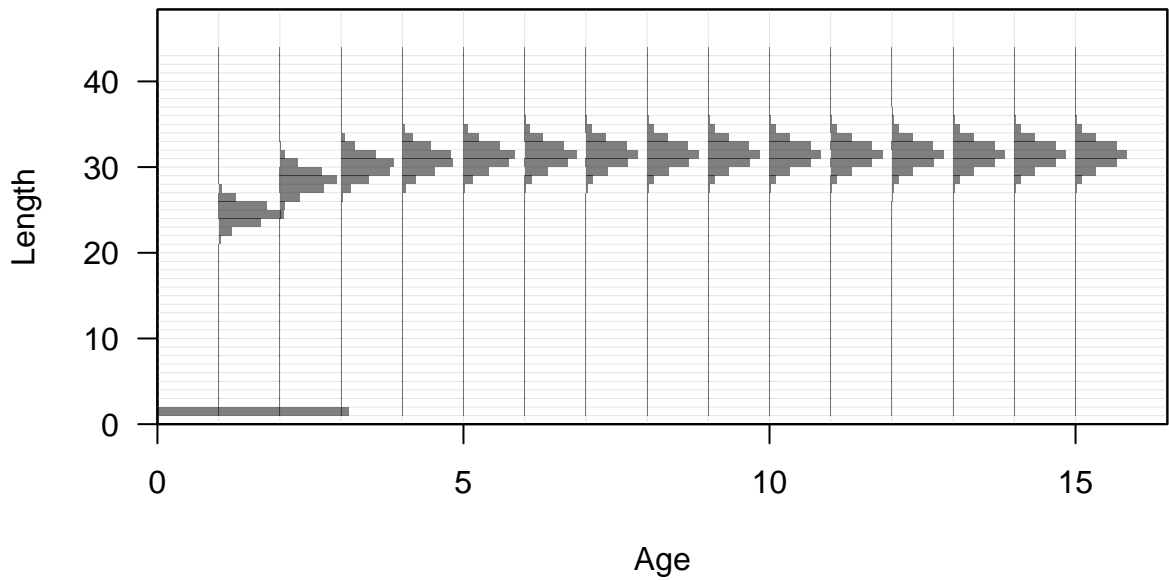


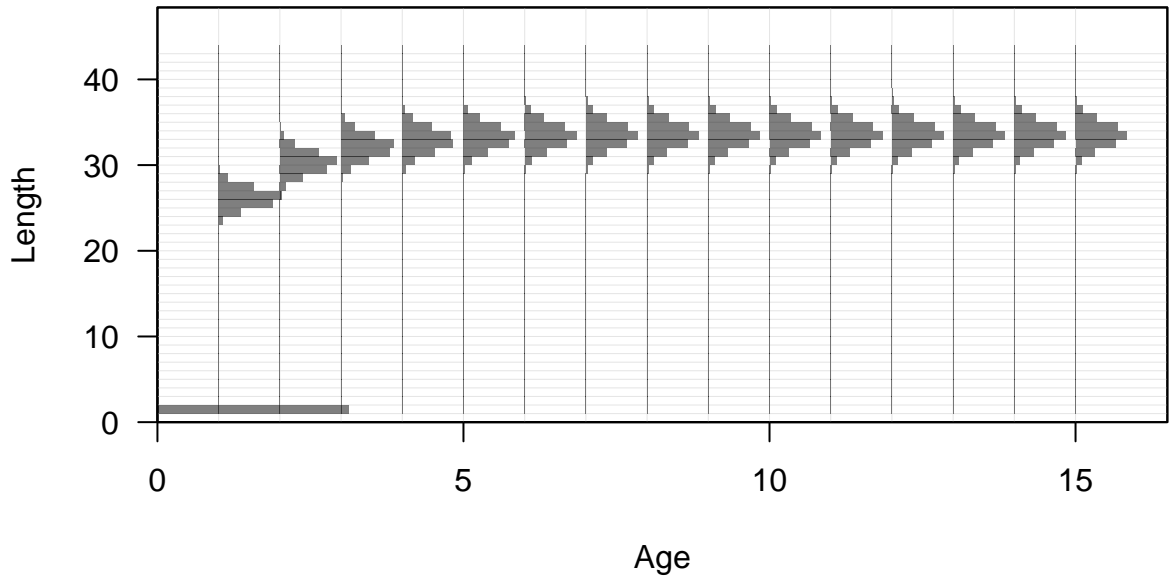


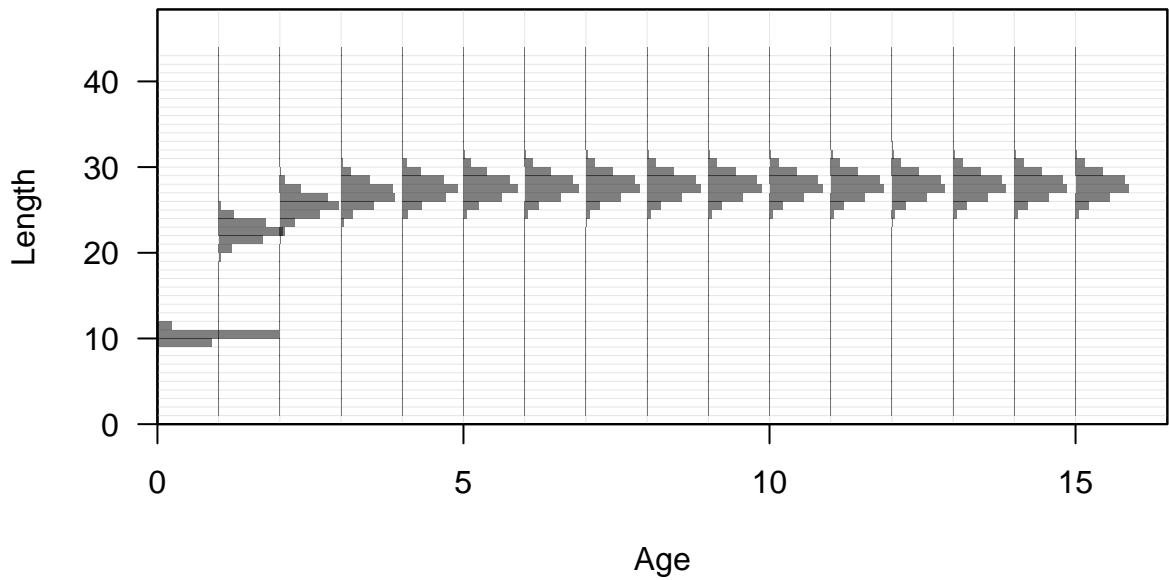


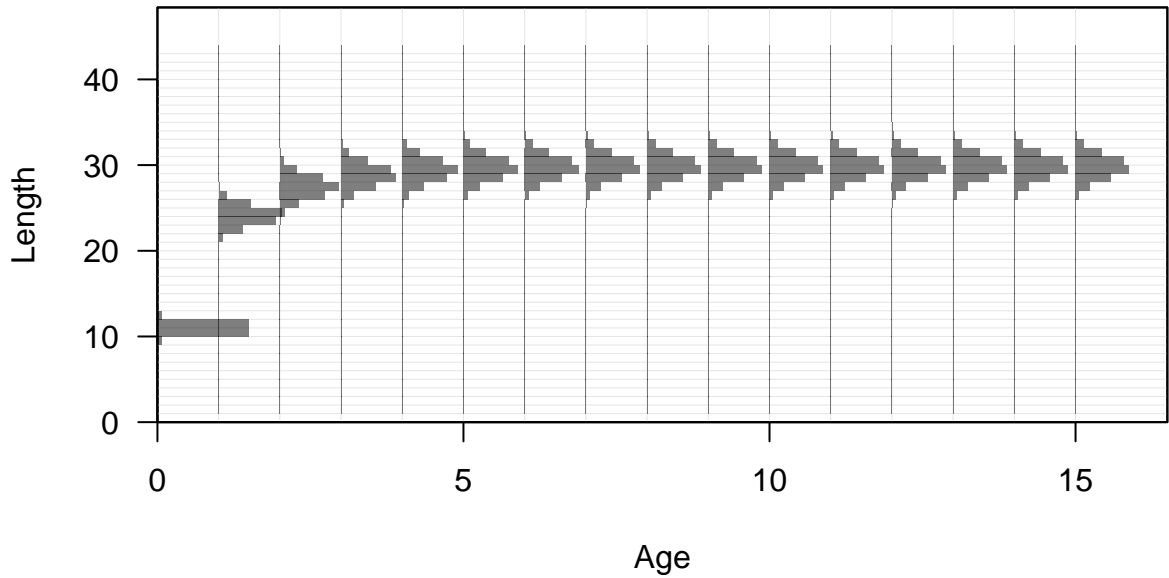


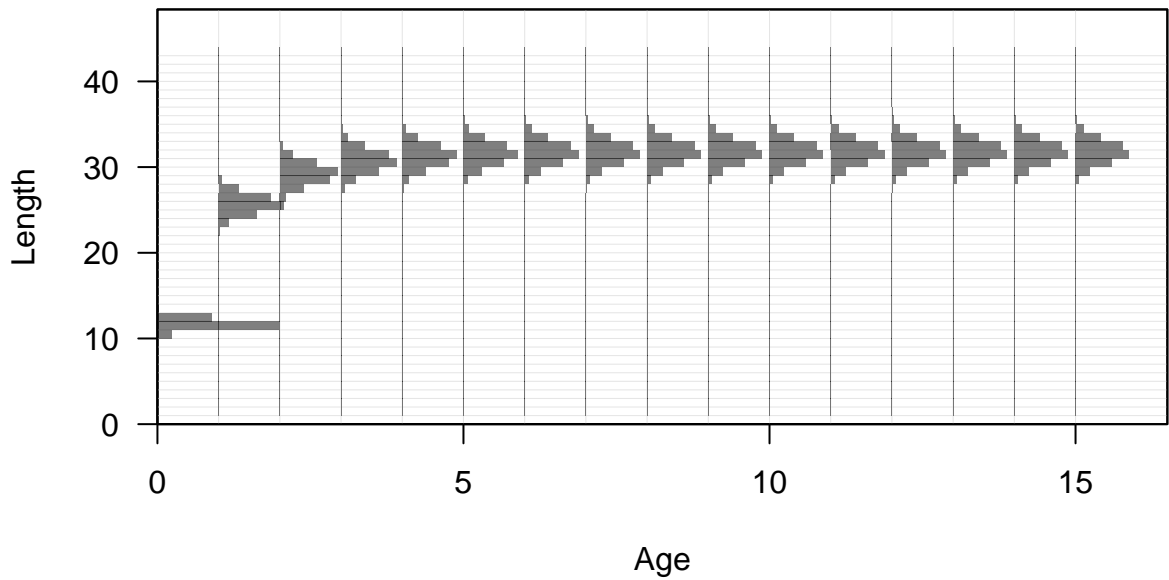


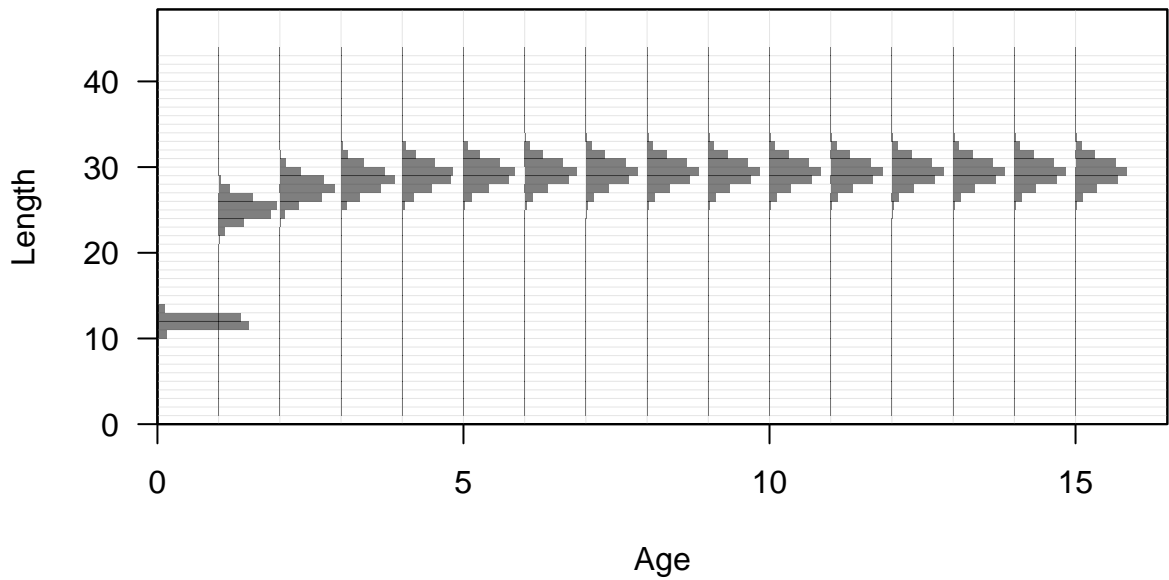


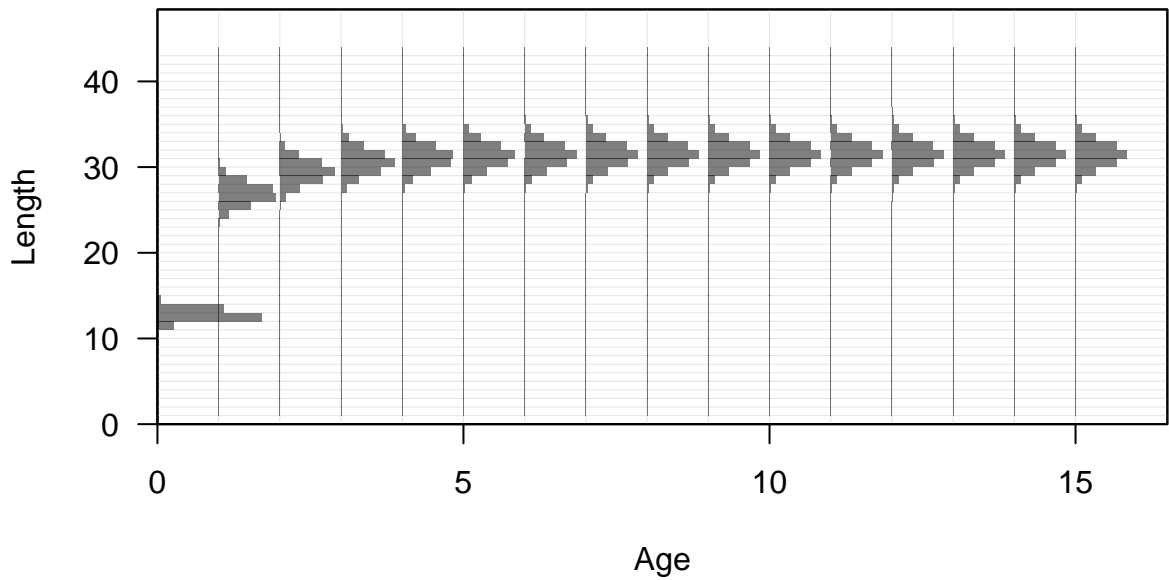


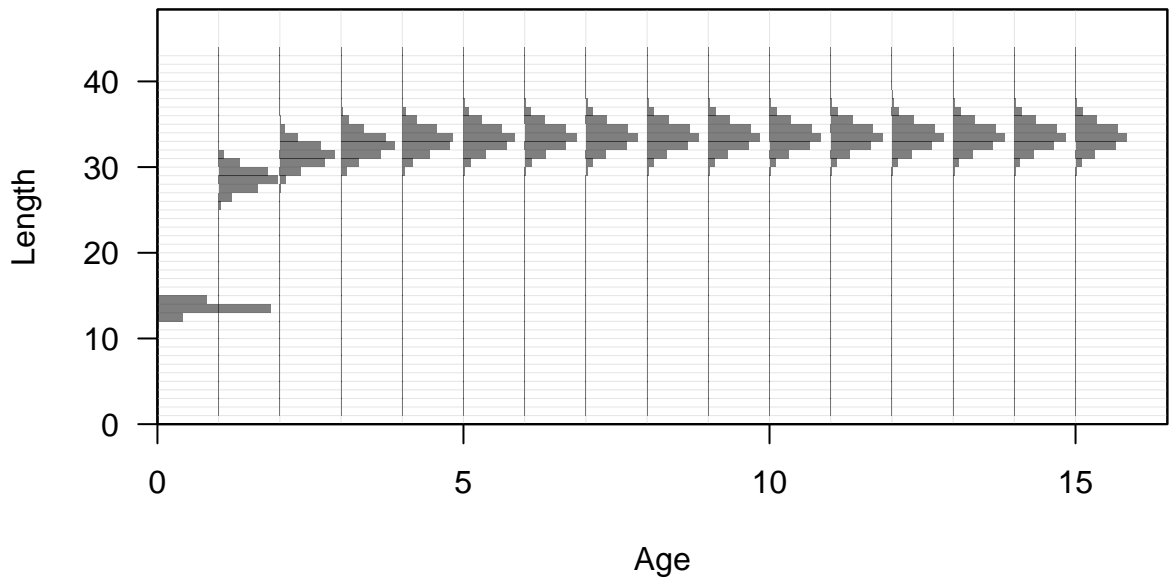








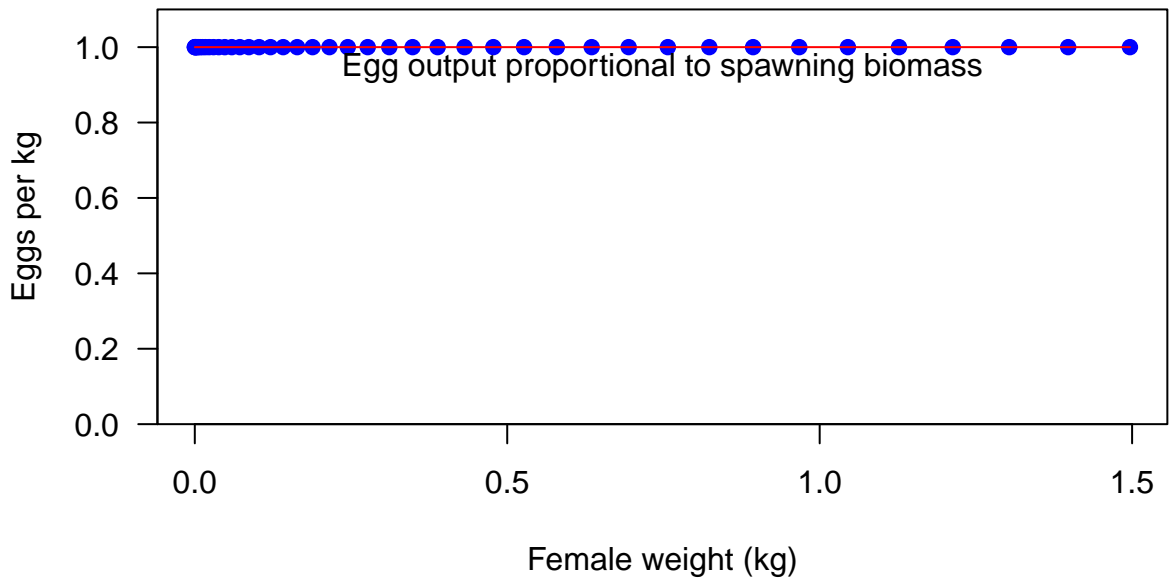






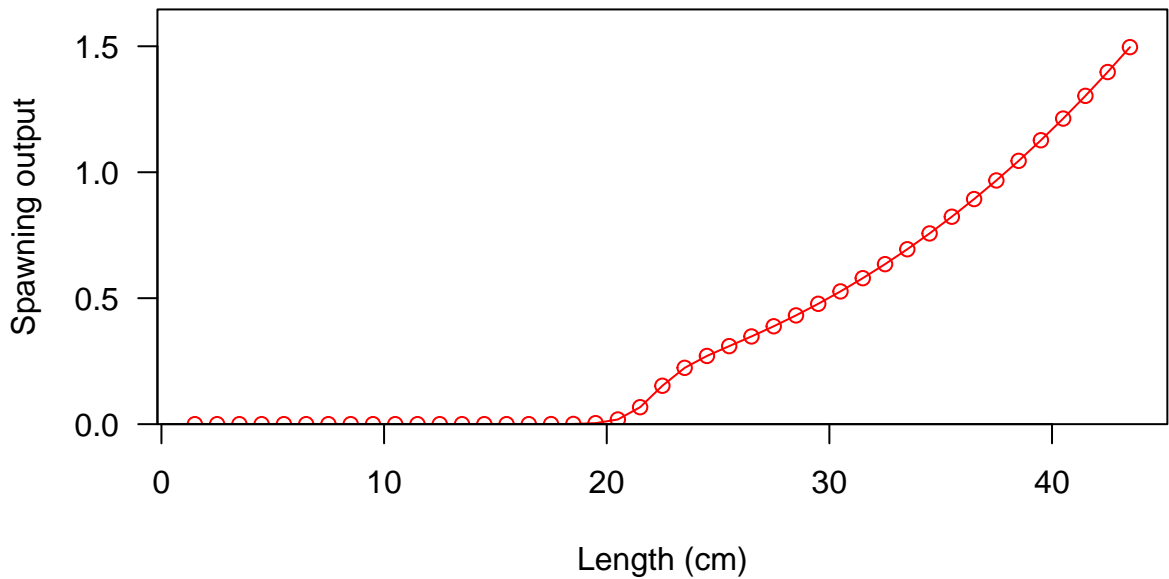


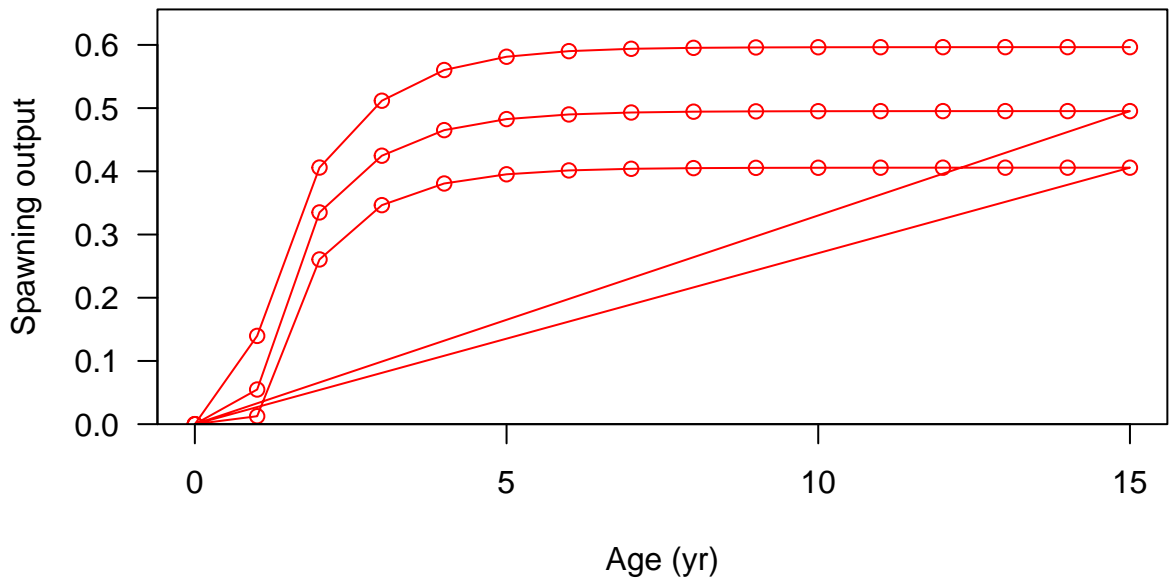




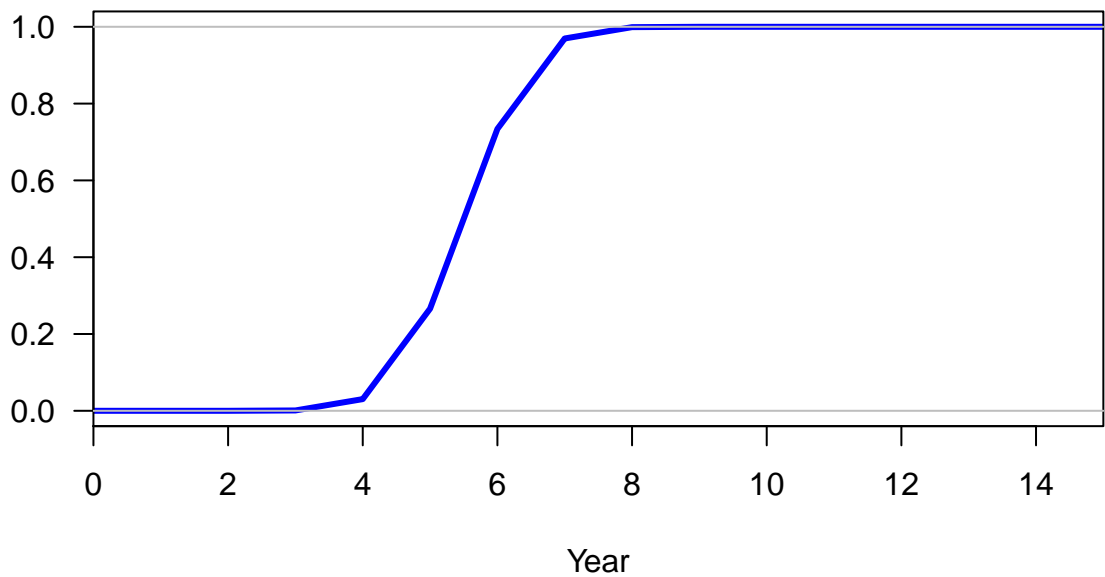








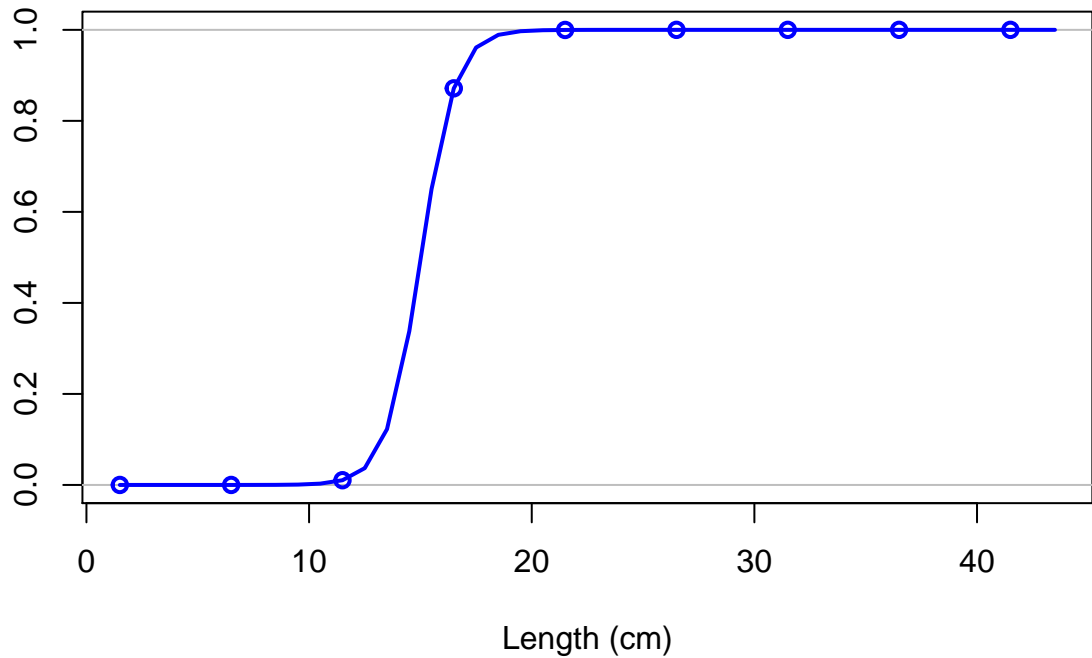
Hermaphroditism transition rate



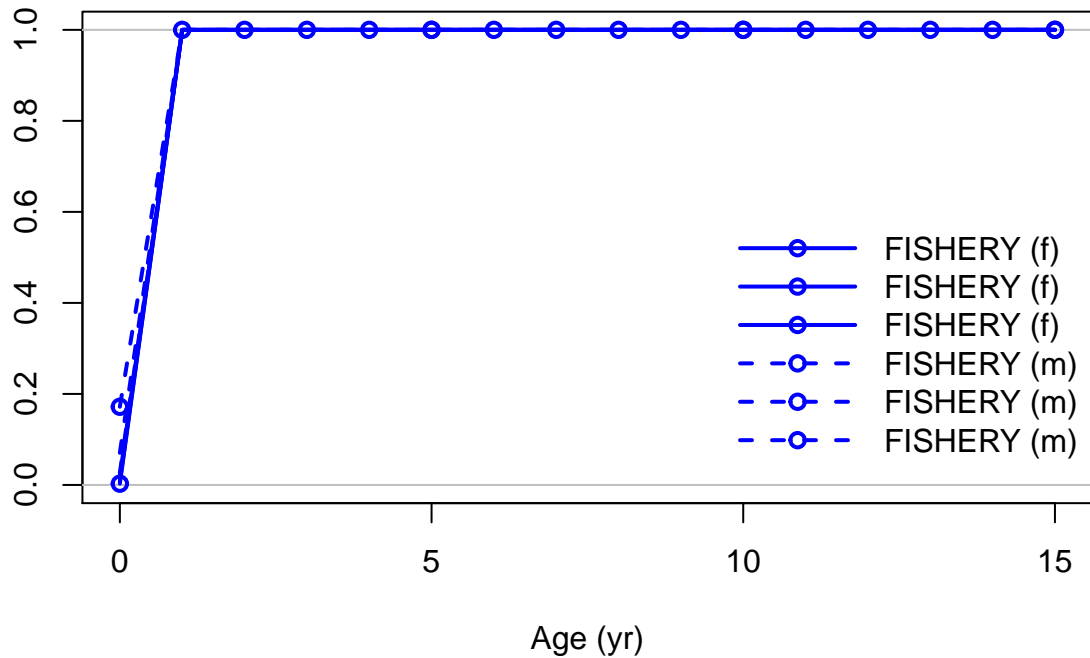
Fraction females by age at equilibrium



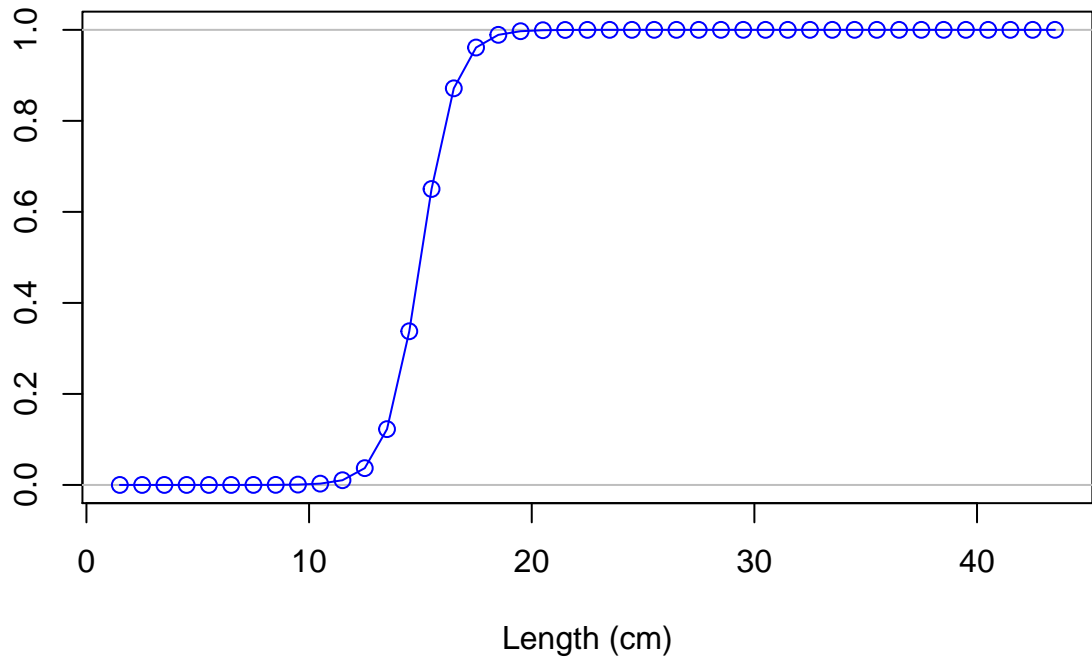
Selectivity



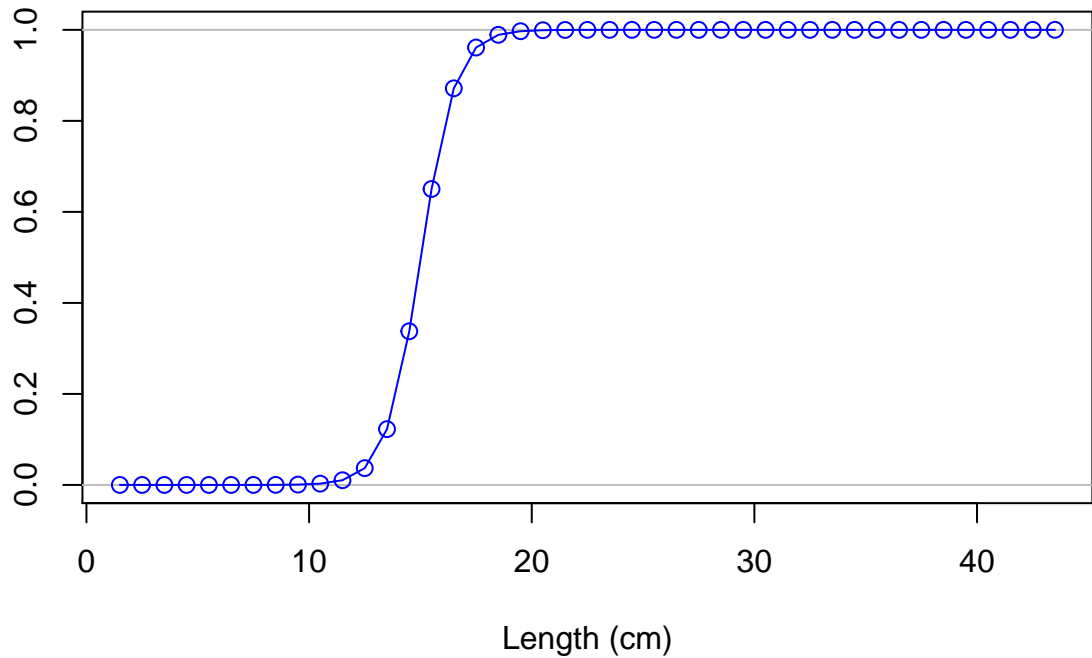
Selectivity

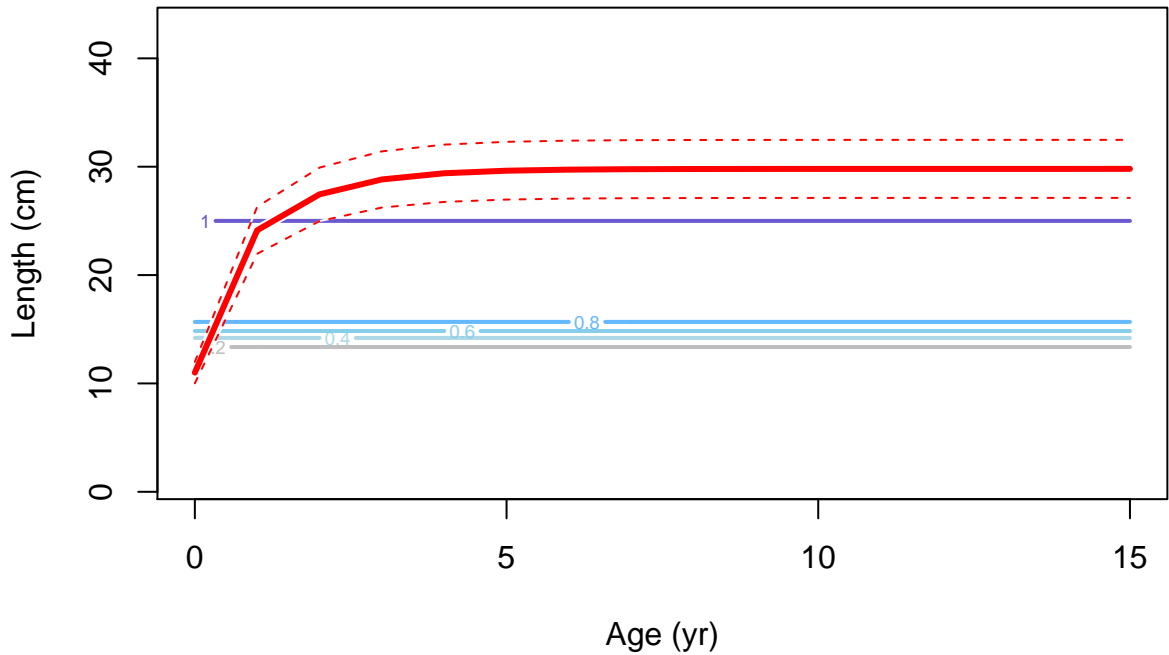


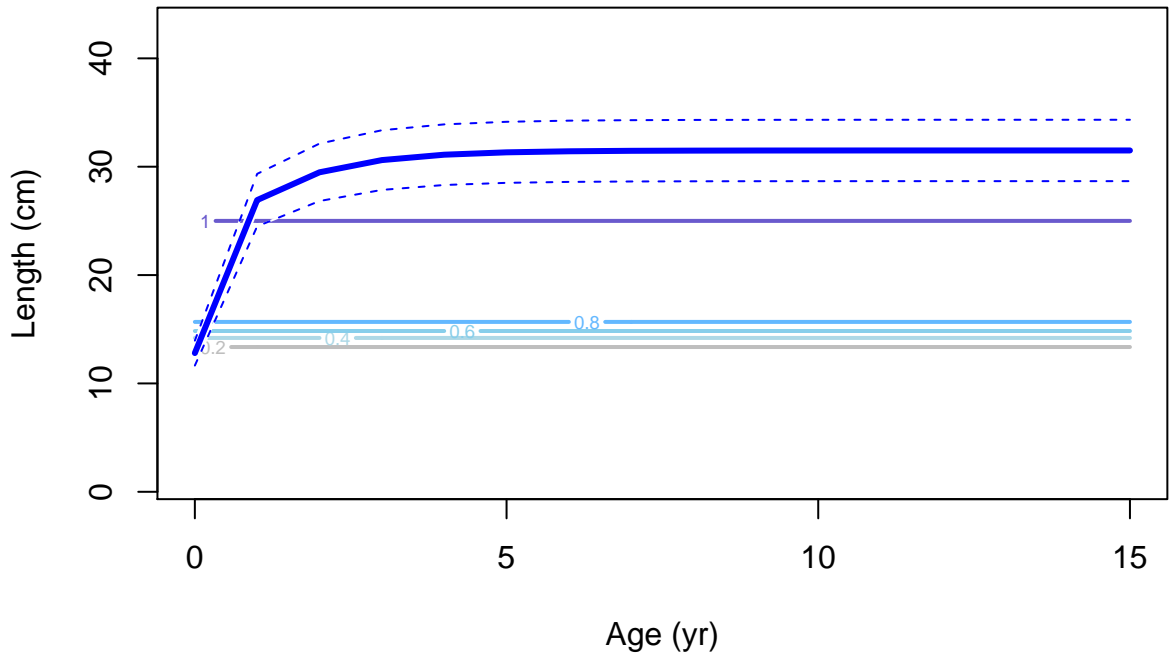
Selectivity

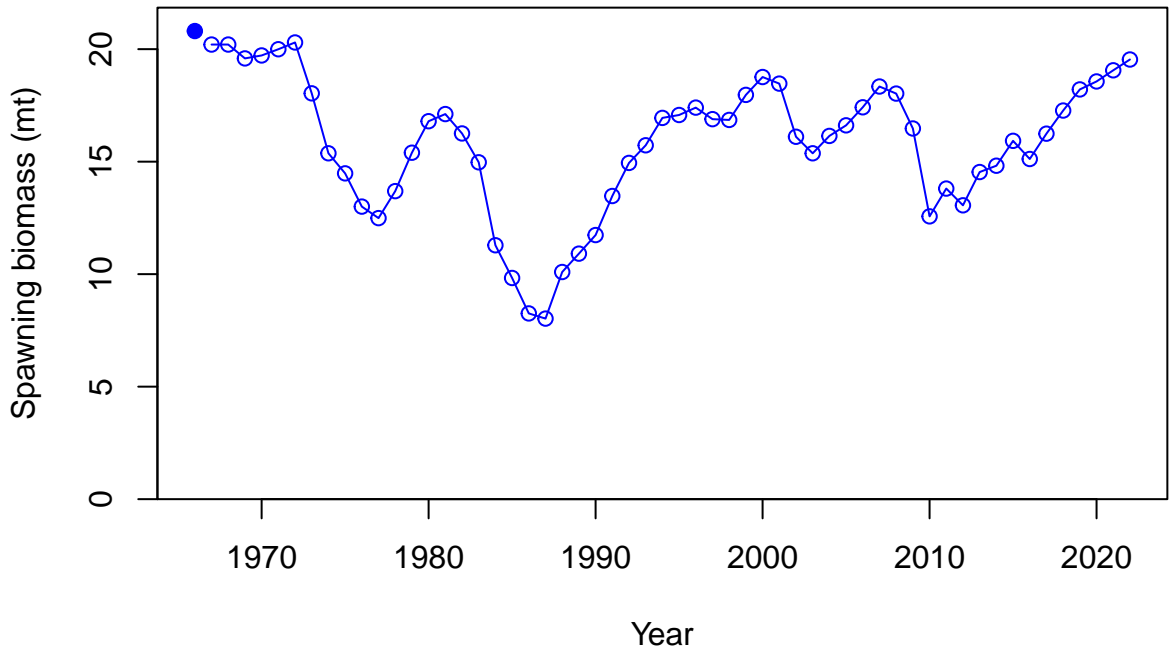


Selectivity

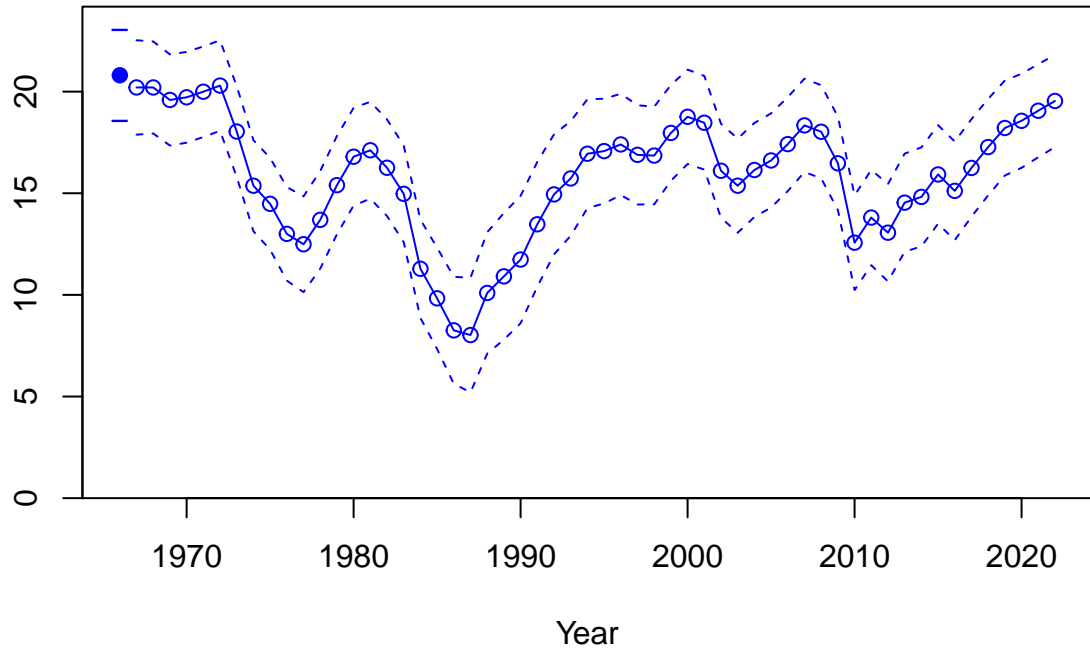




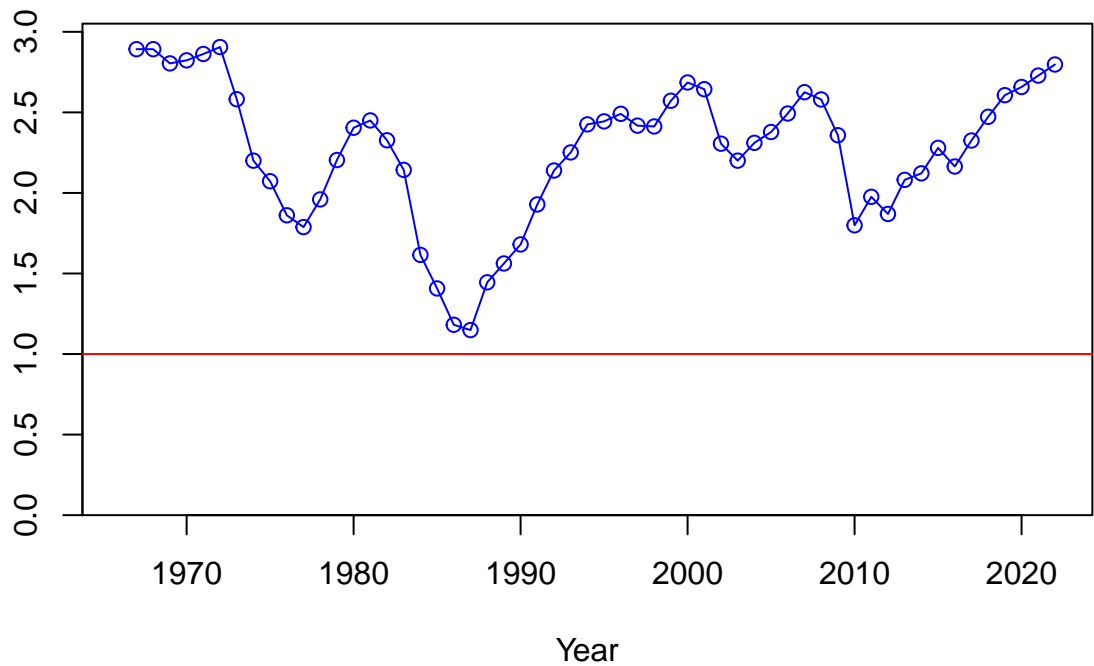




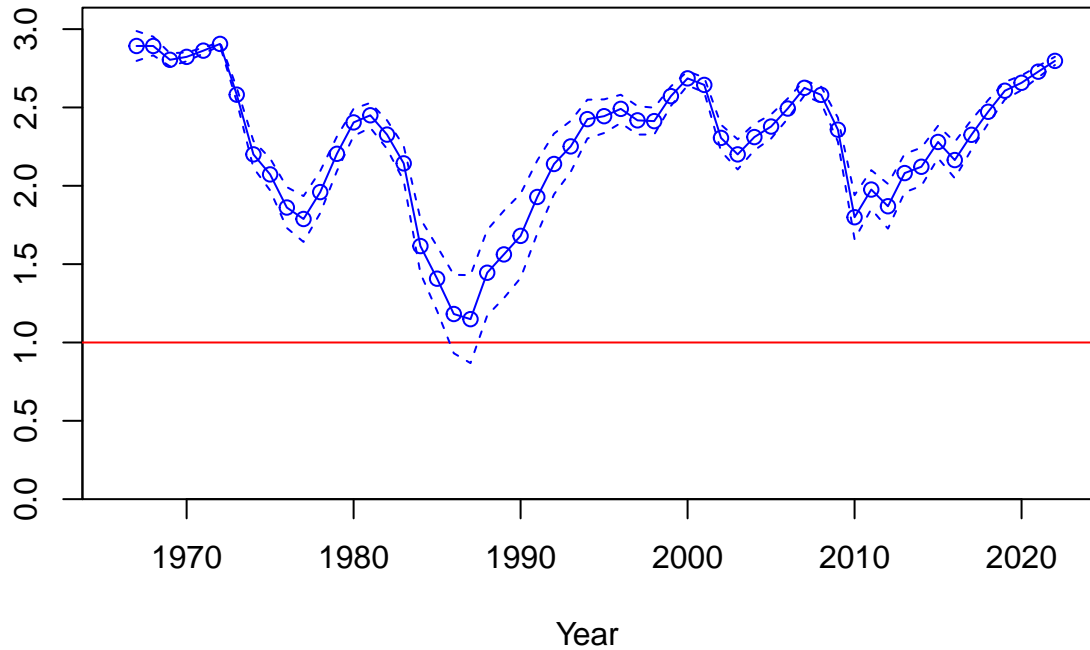
Spawning biomass (mt)

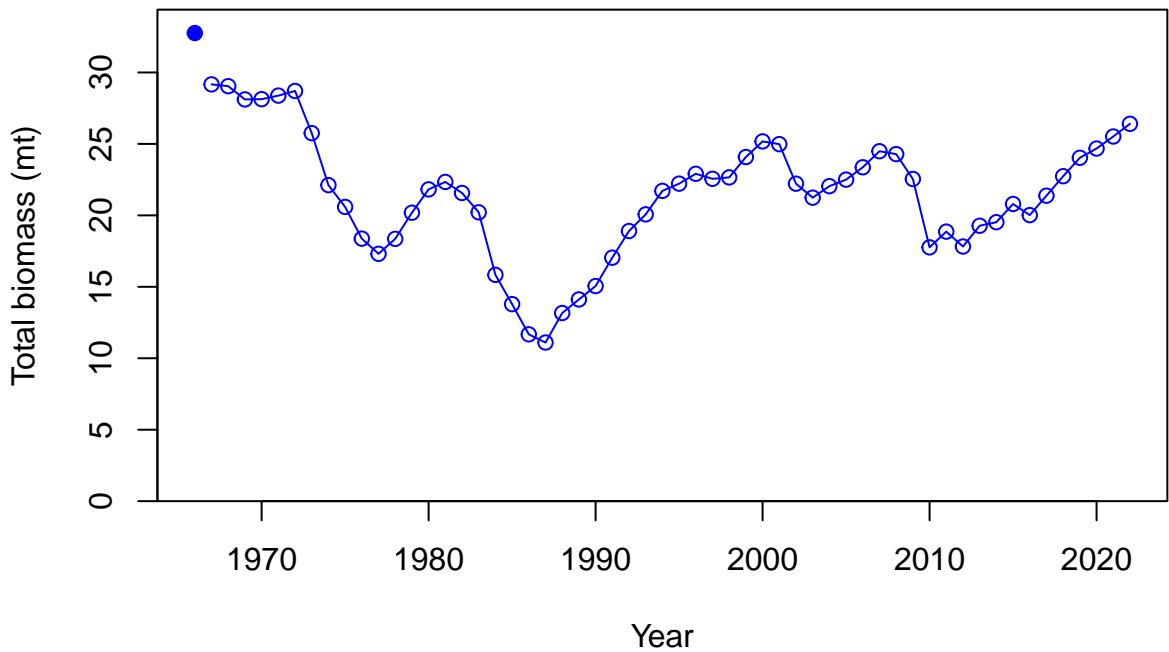


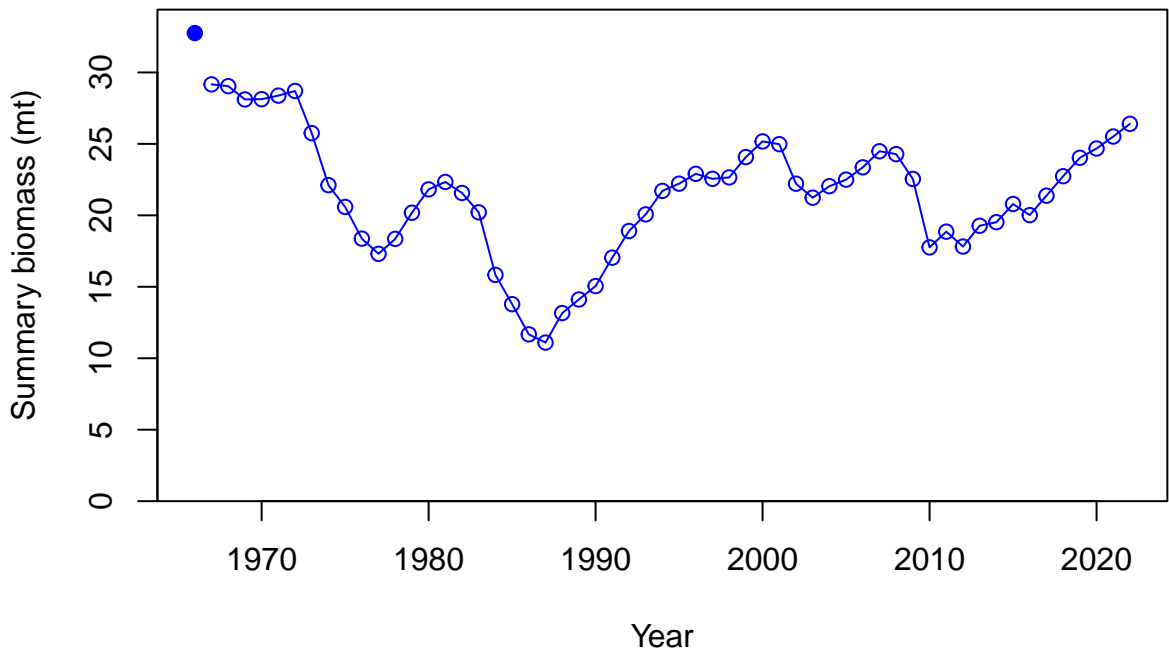
Relative spawning biomass: B/B_{MSY}



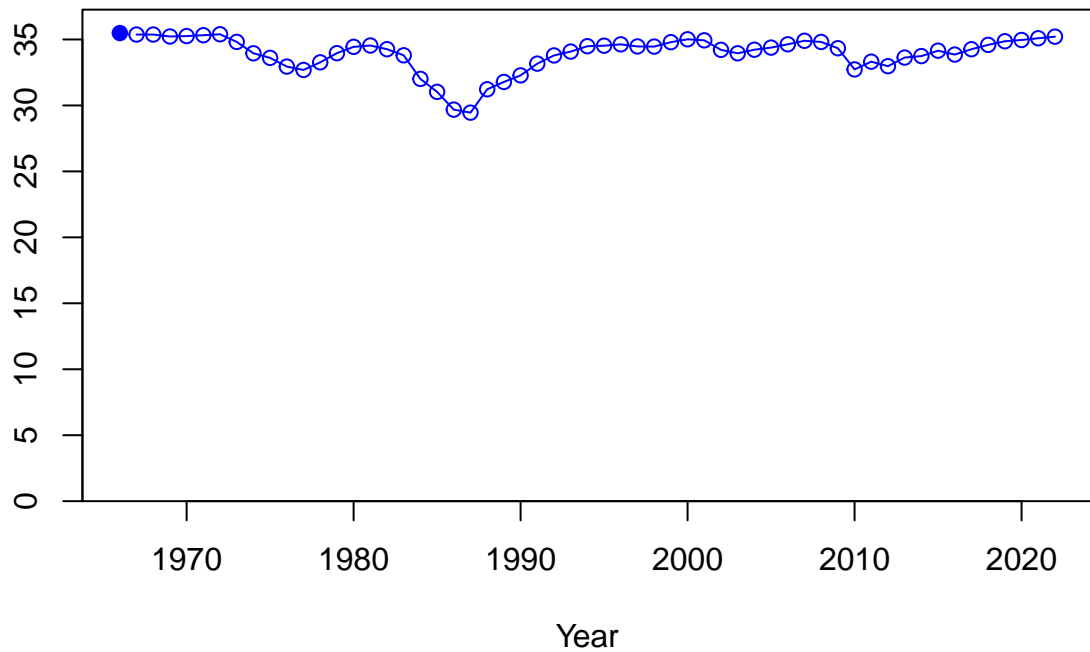
Relative spawning biomass: B/B_{MSY}

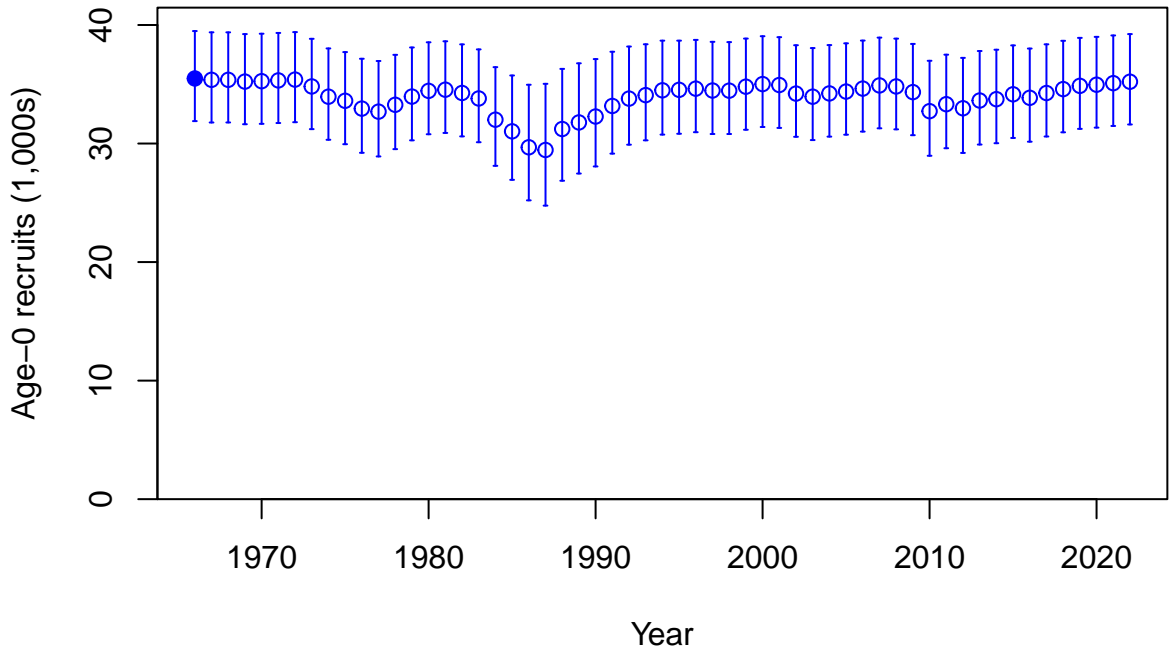




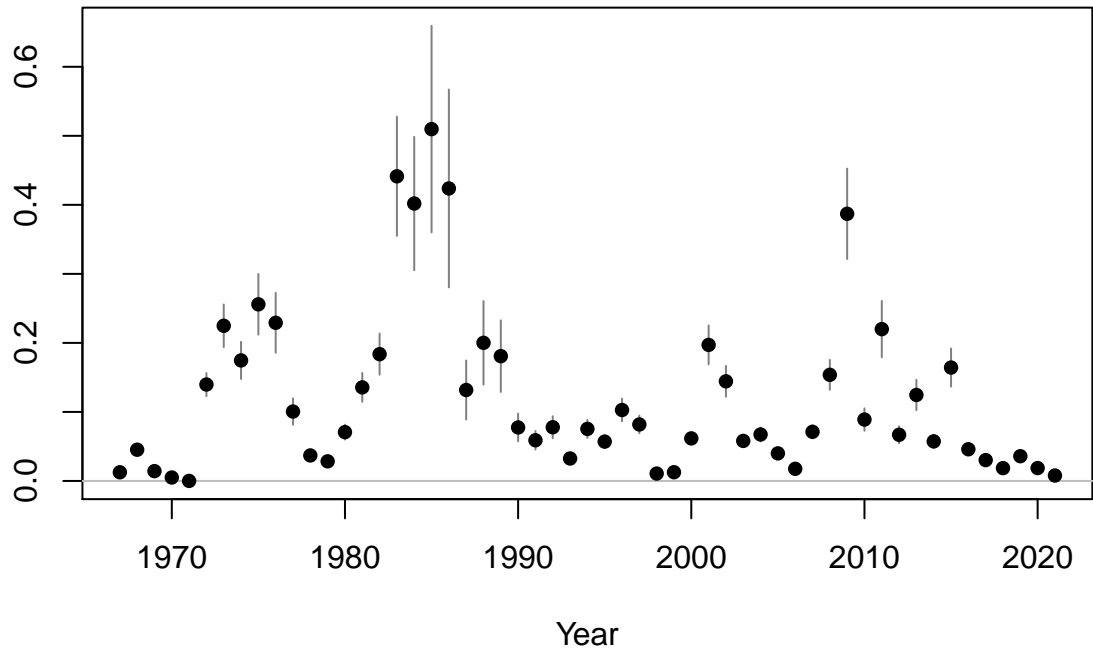


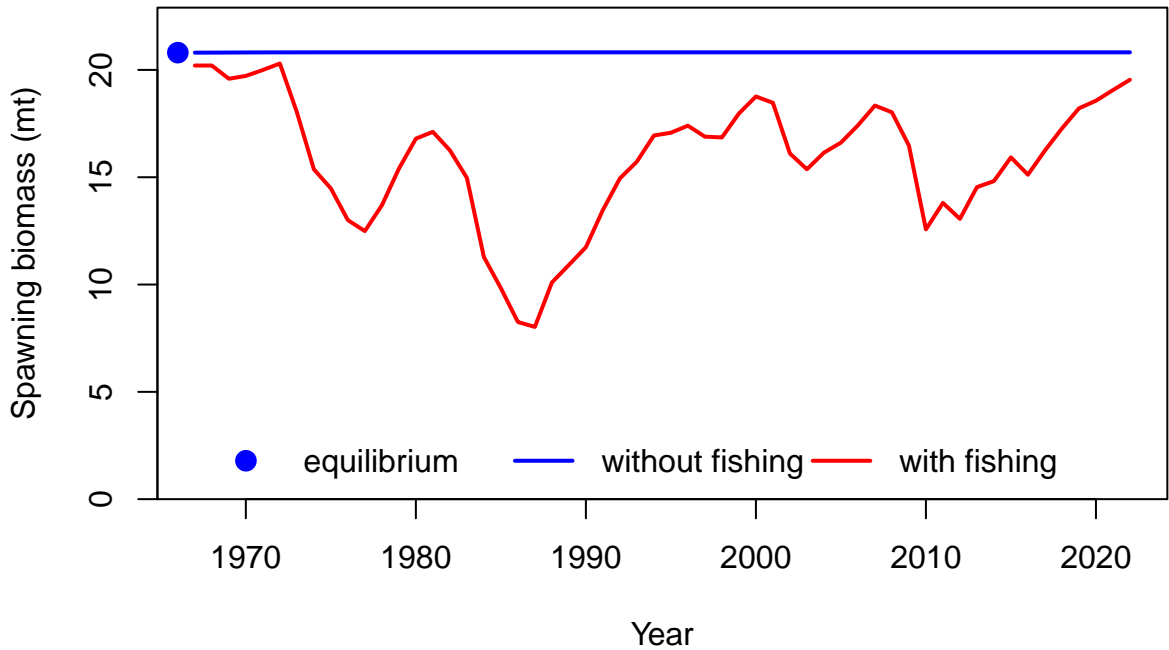
Age-0 recruits (1,000s)

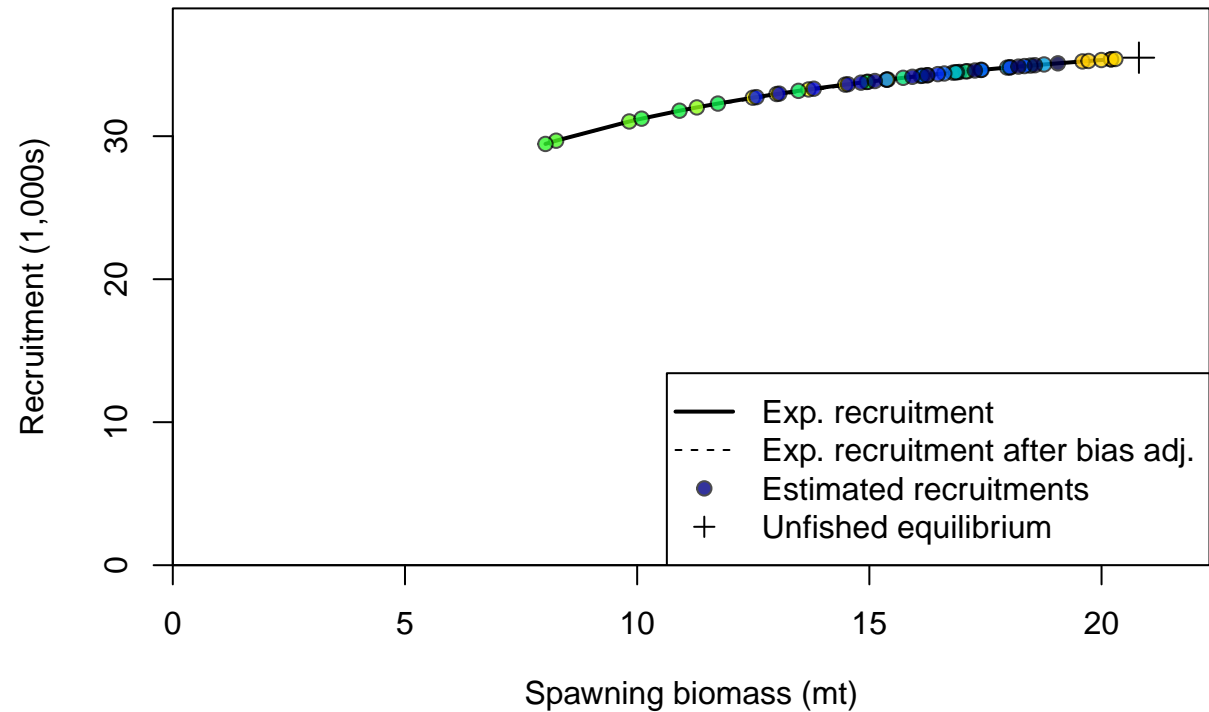


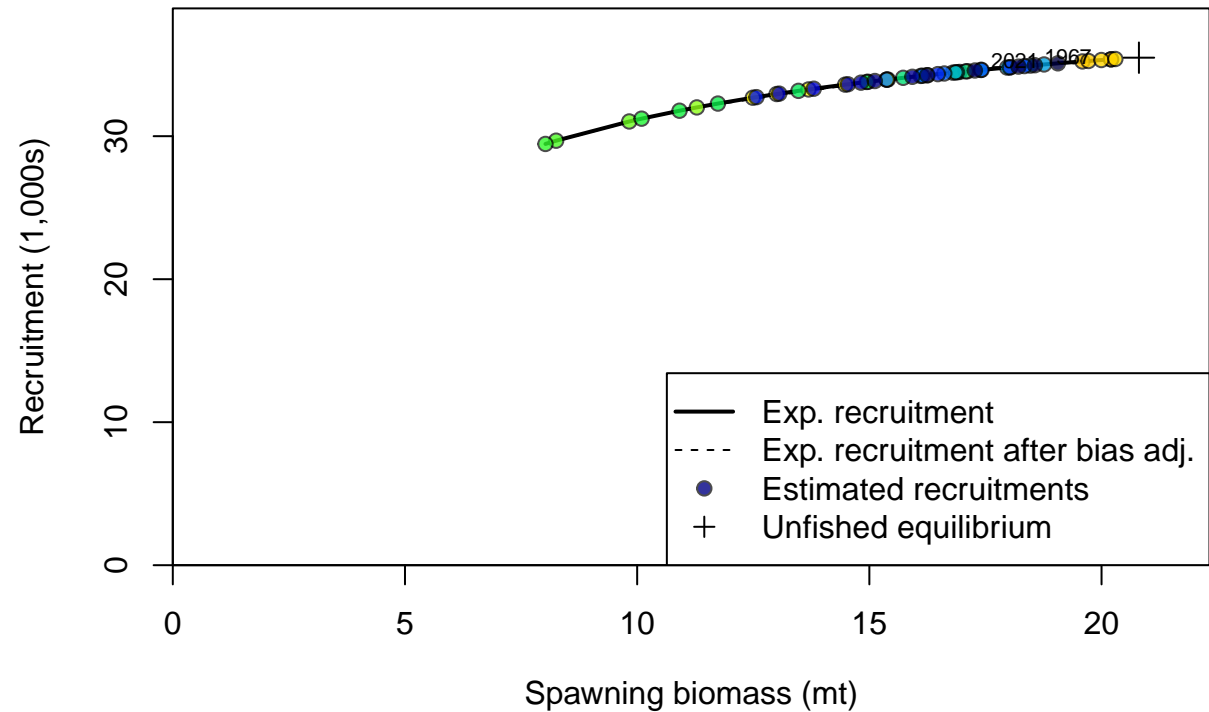


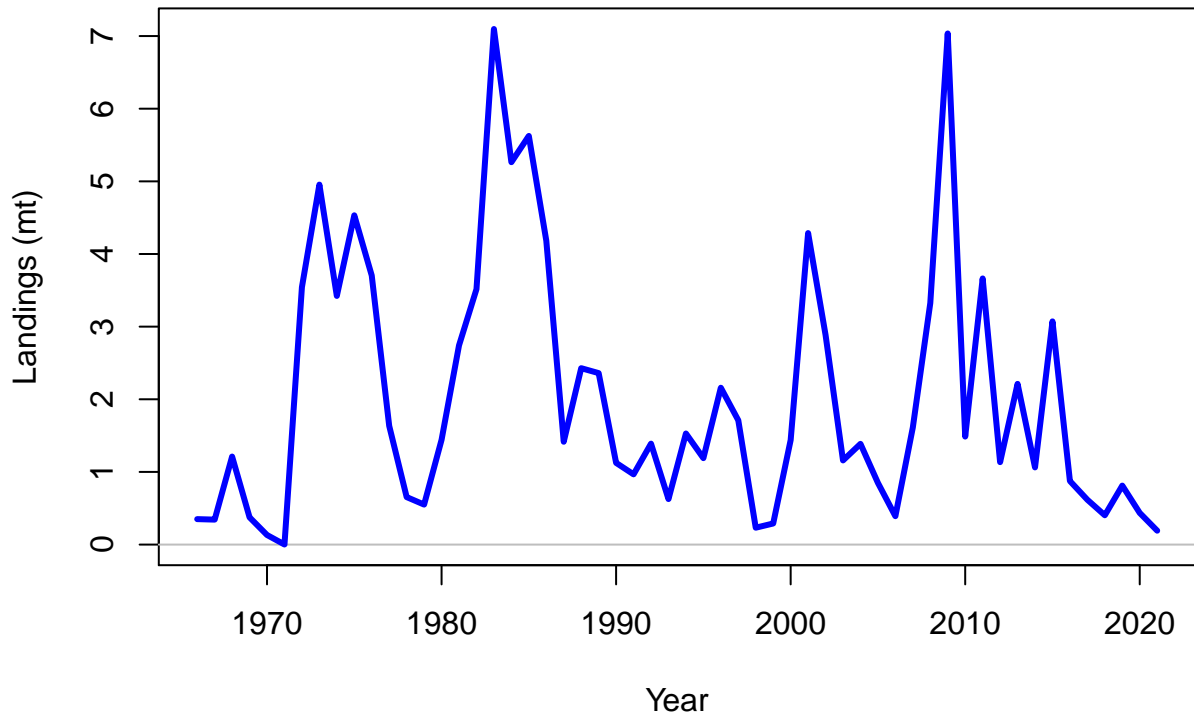
Summary Fishing Mortality

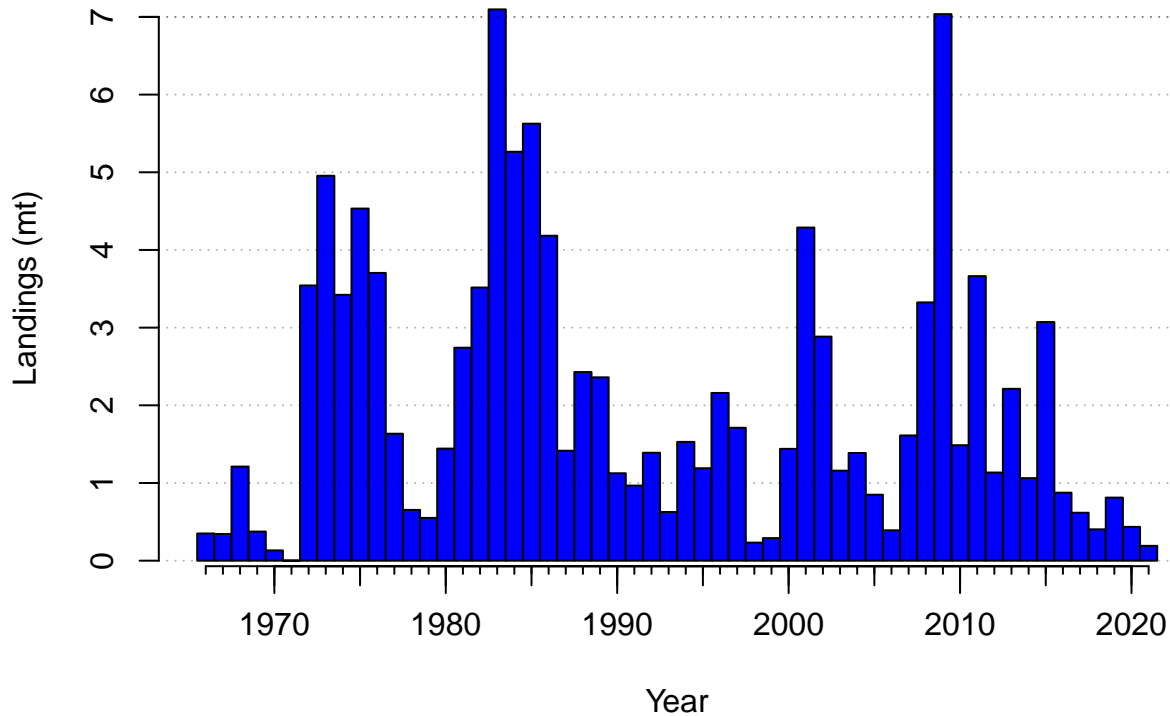


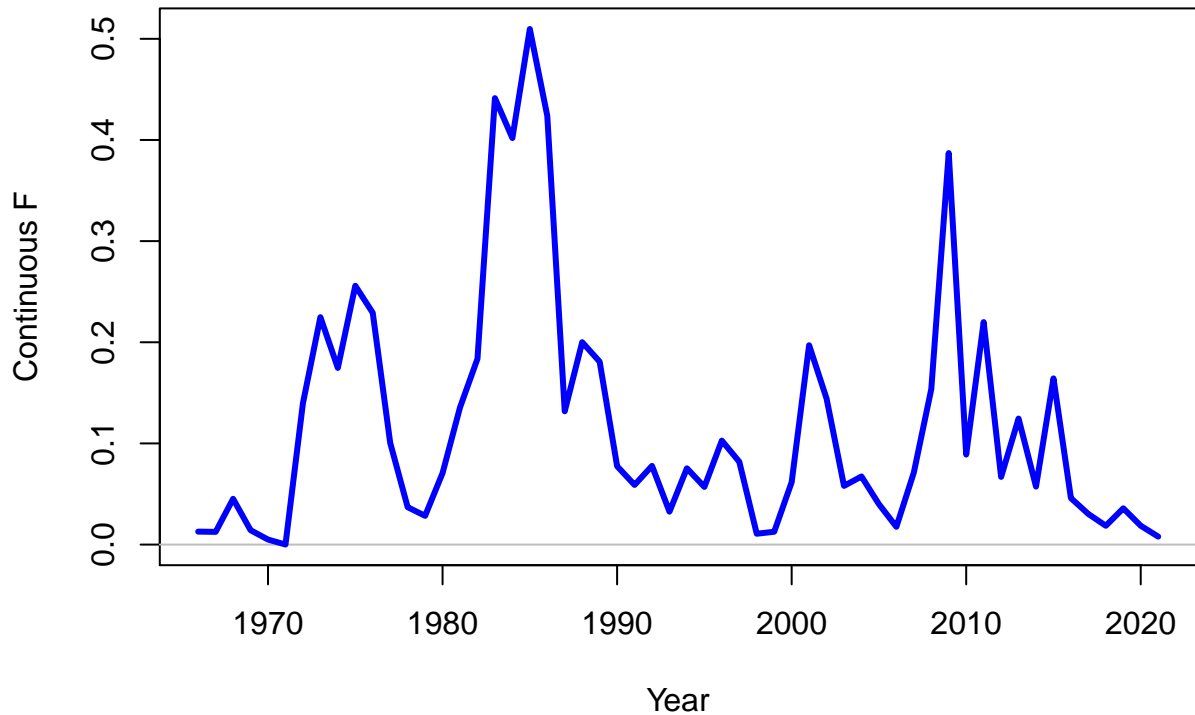




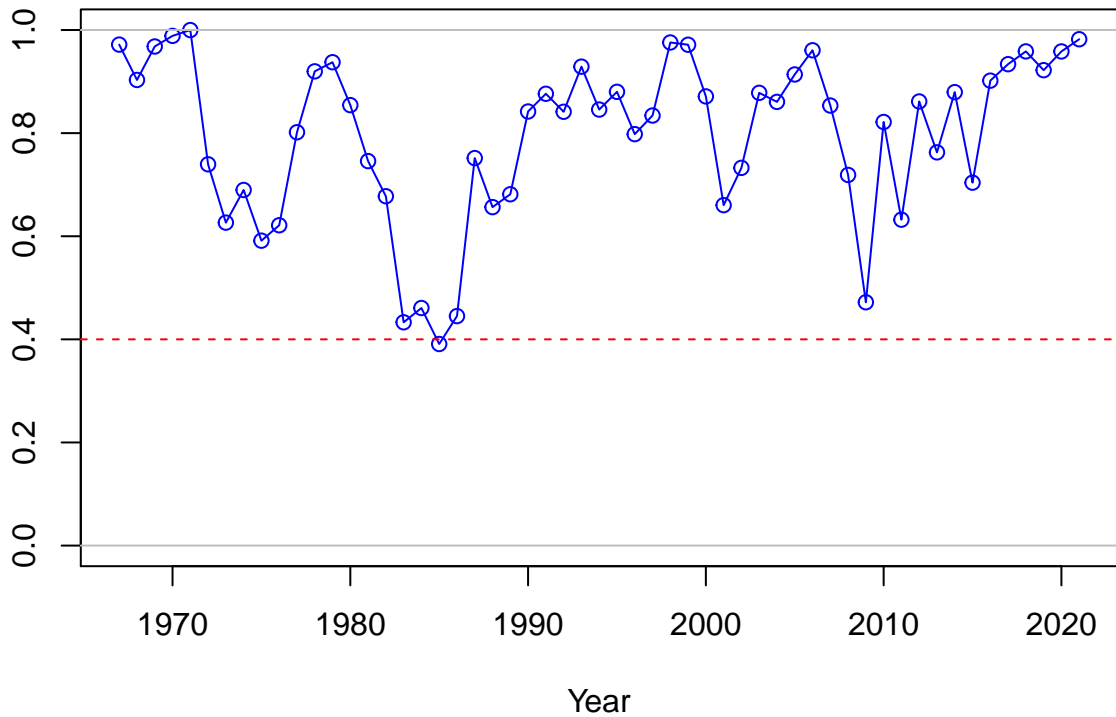




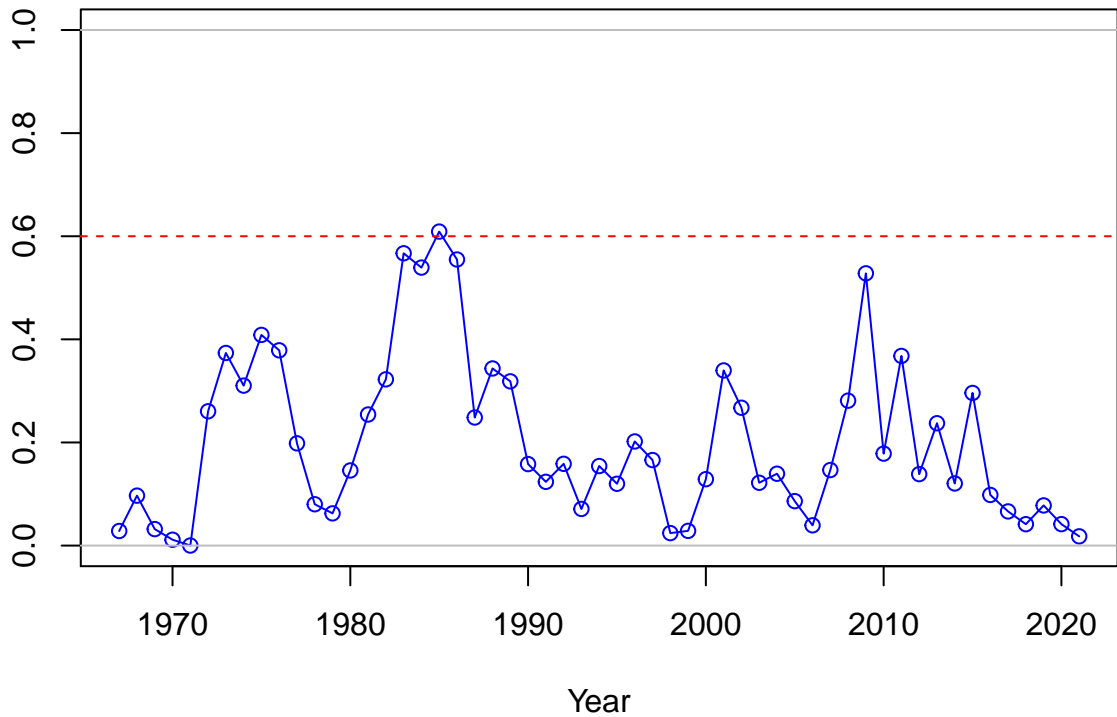




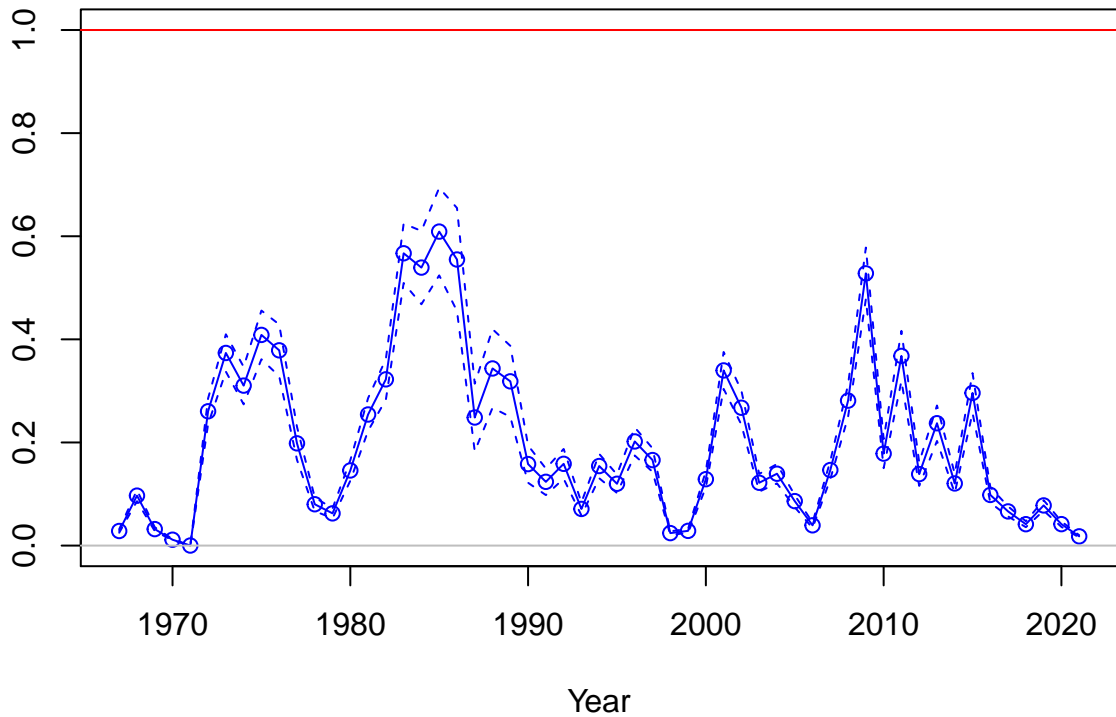
SPR



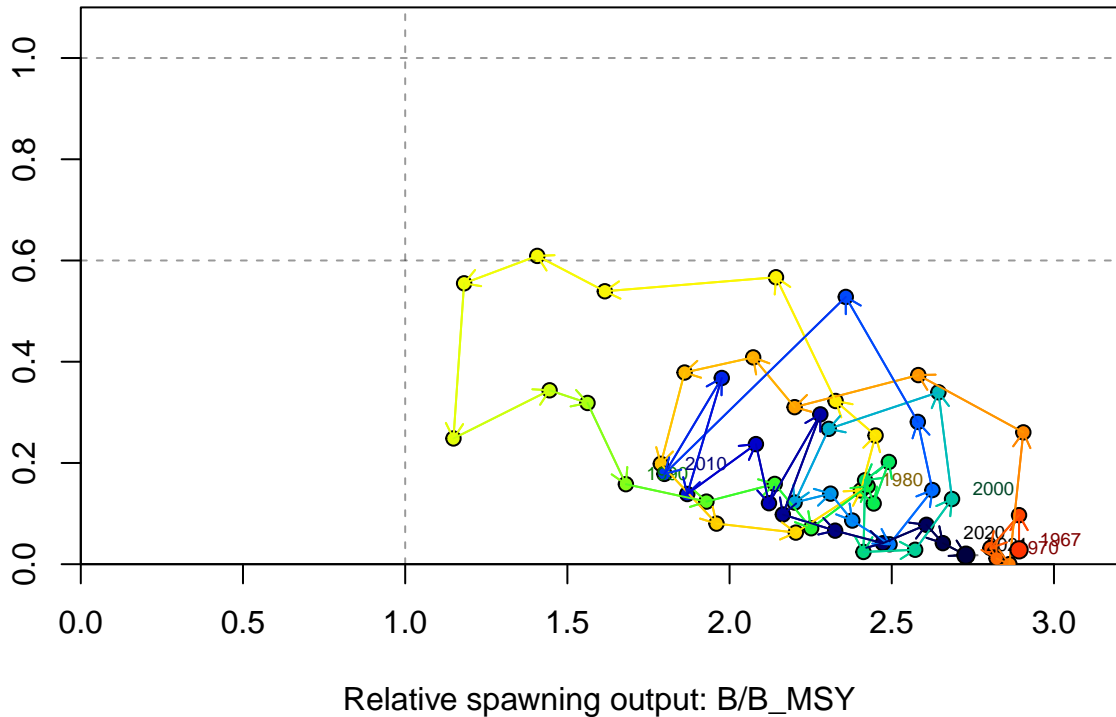
1-SPR



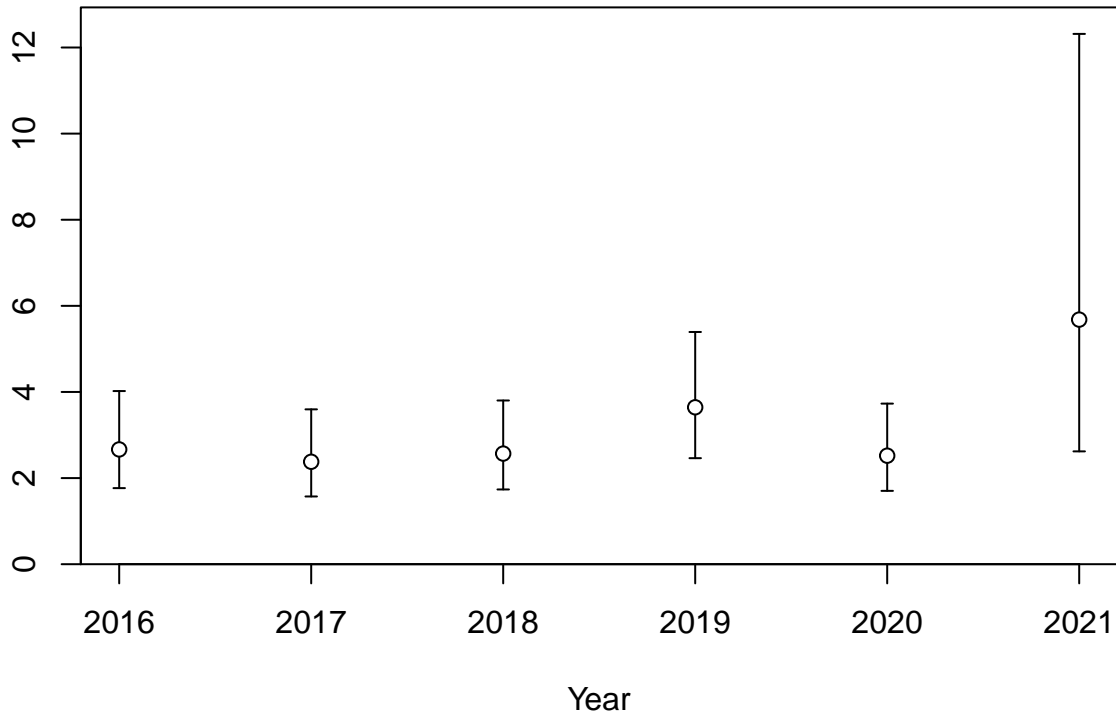
Fishing intensity: 1-SPR



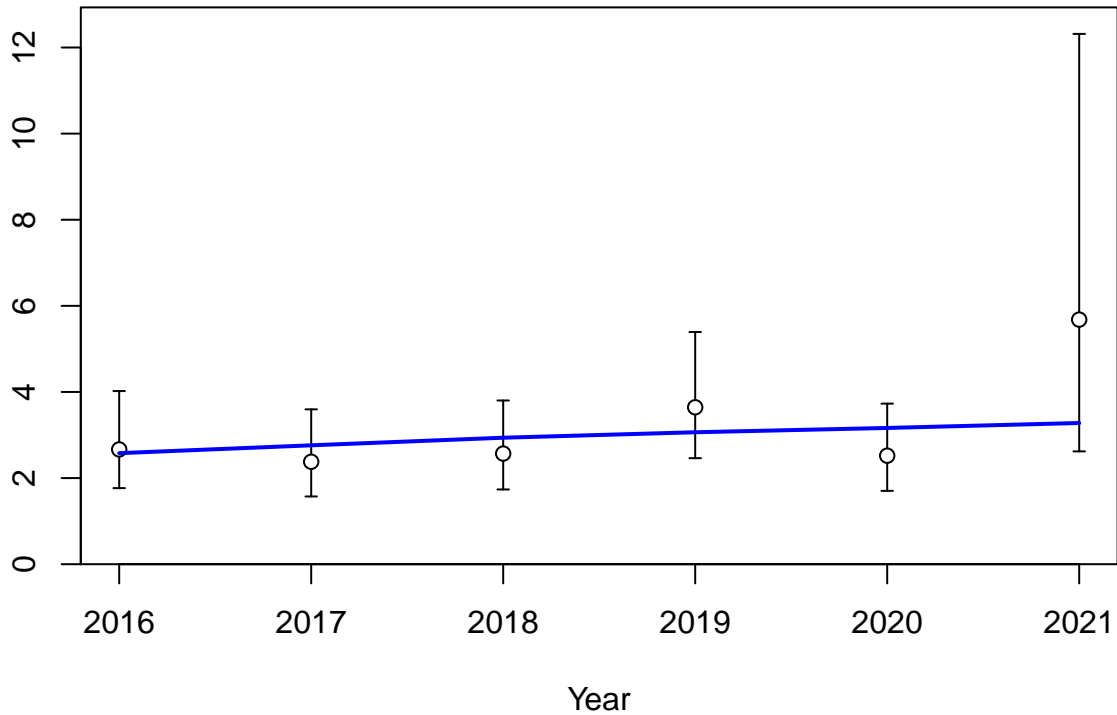
Fishing intensity: 1-SPR



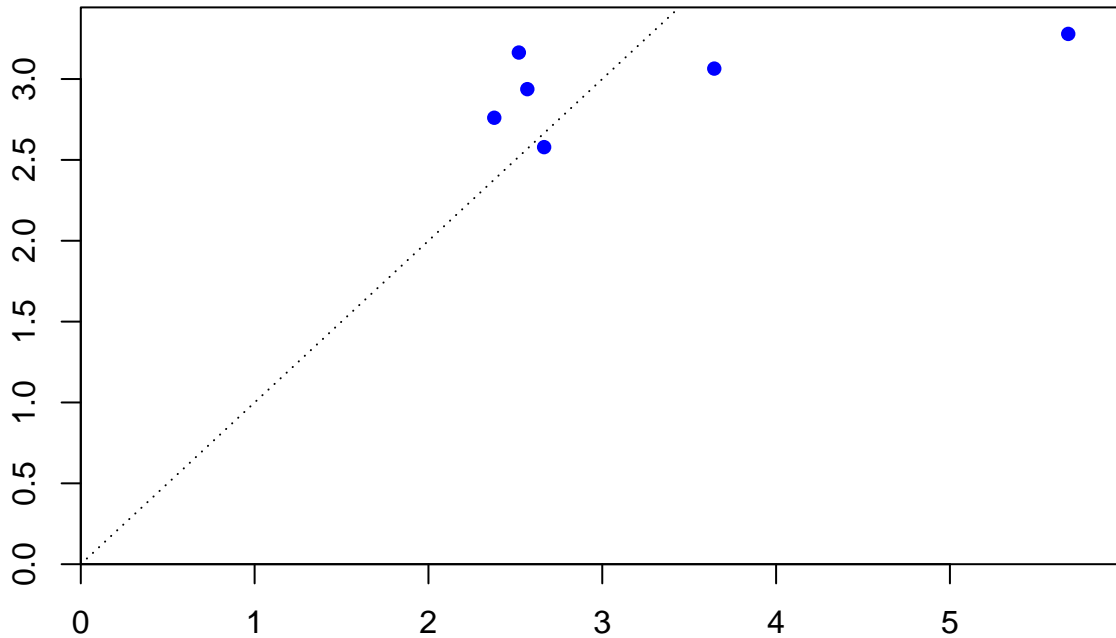
Index



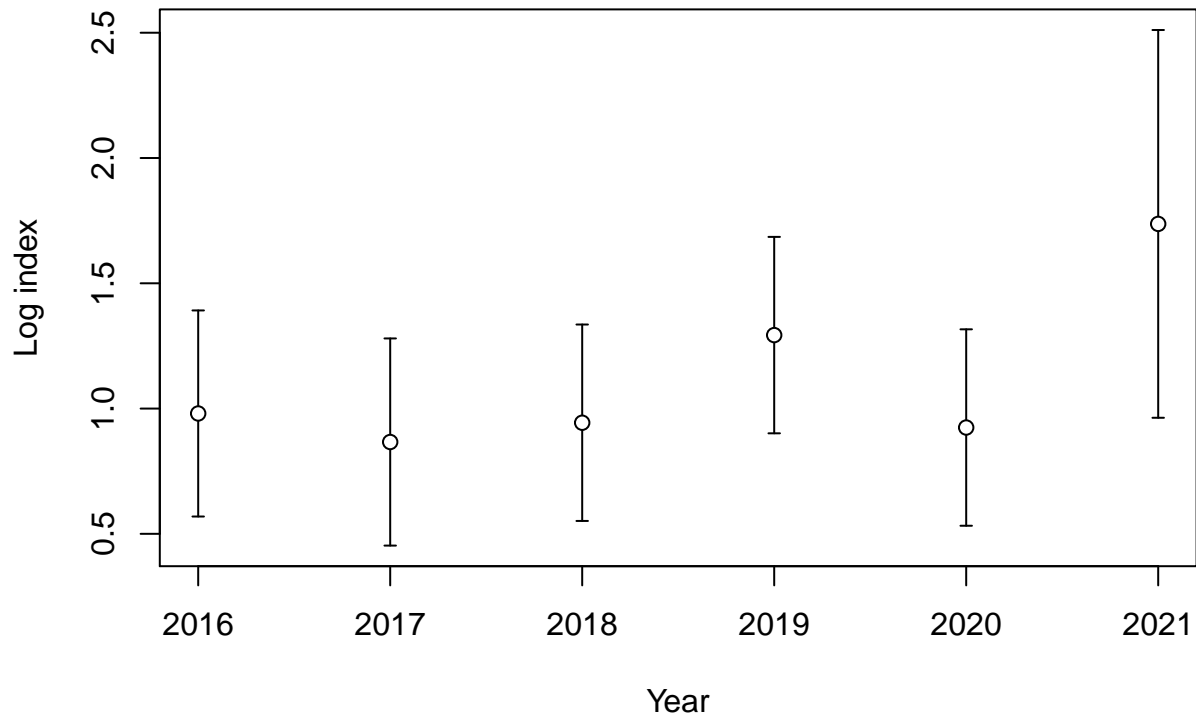
Index

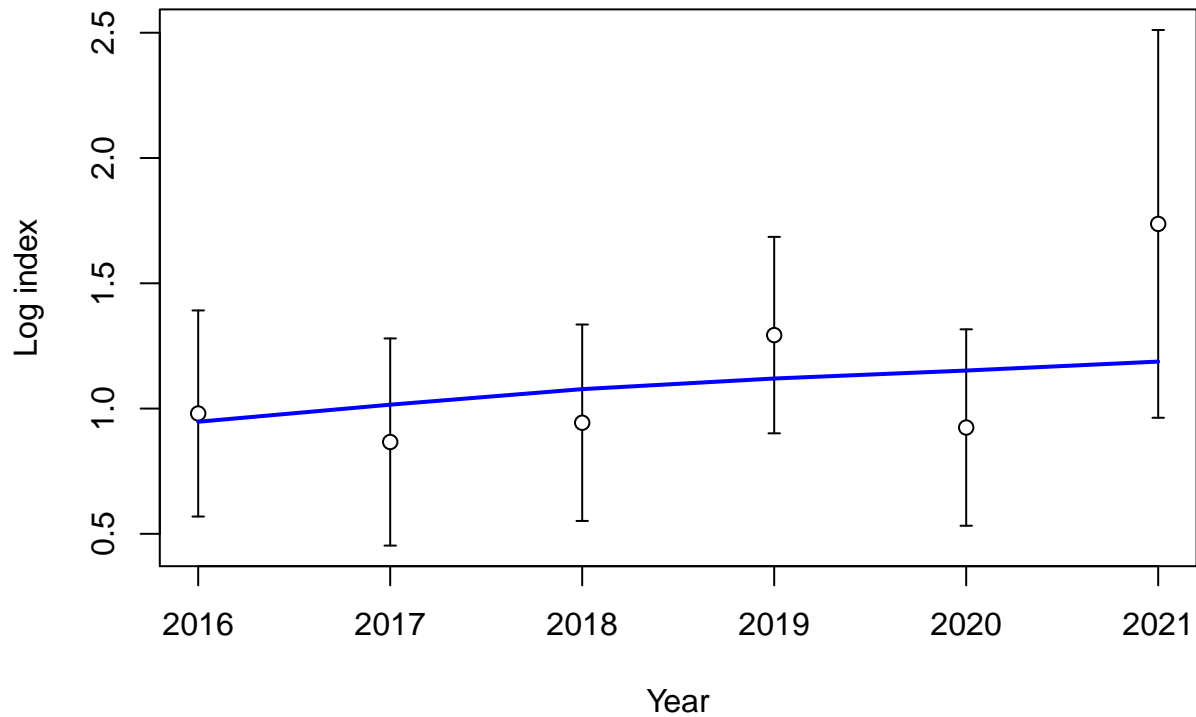


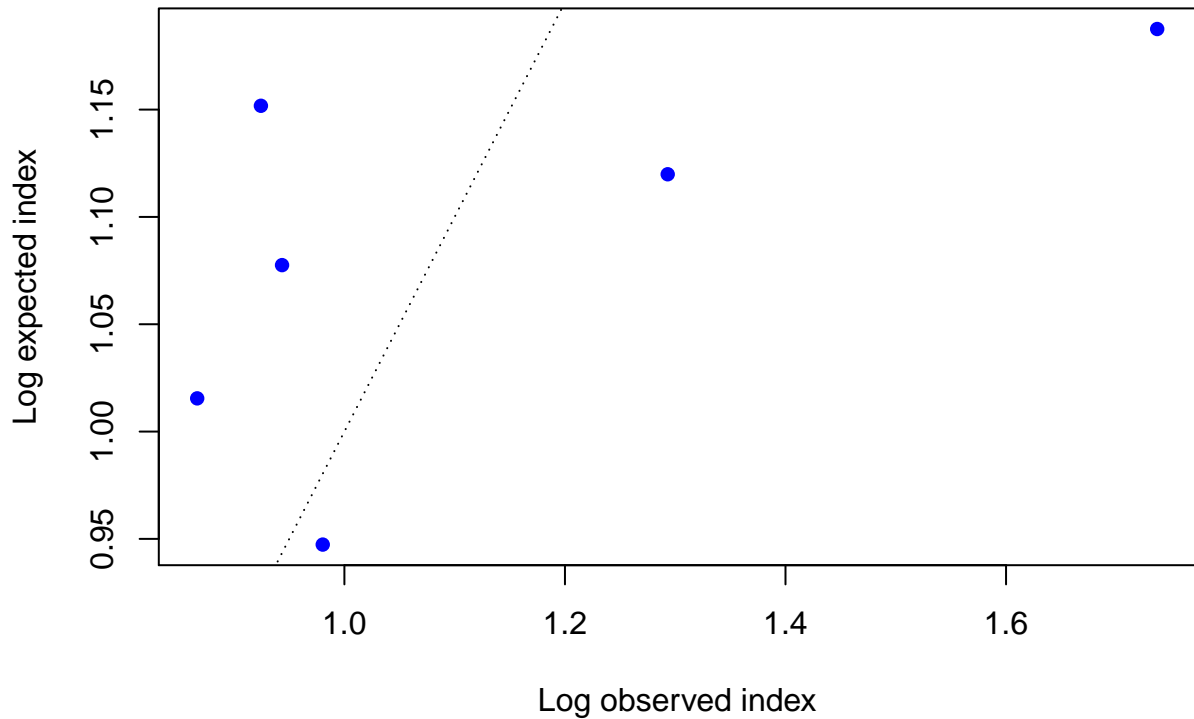
Expected index



Observed index







Residual

1.0
0.5
0.0
-0.5
-1.0

2016

2017

2018

2019

2020

2021

Year



Deviation

0.4
0.2
0.0
-0.2
-0.4

2016

2017

2018

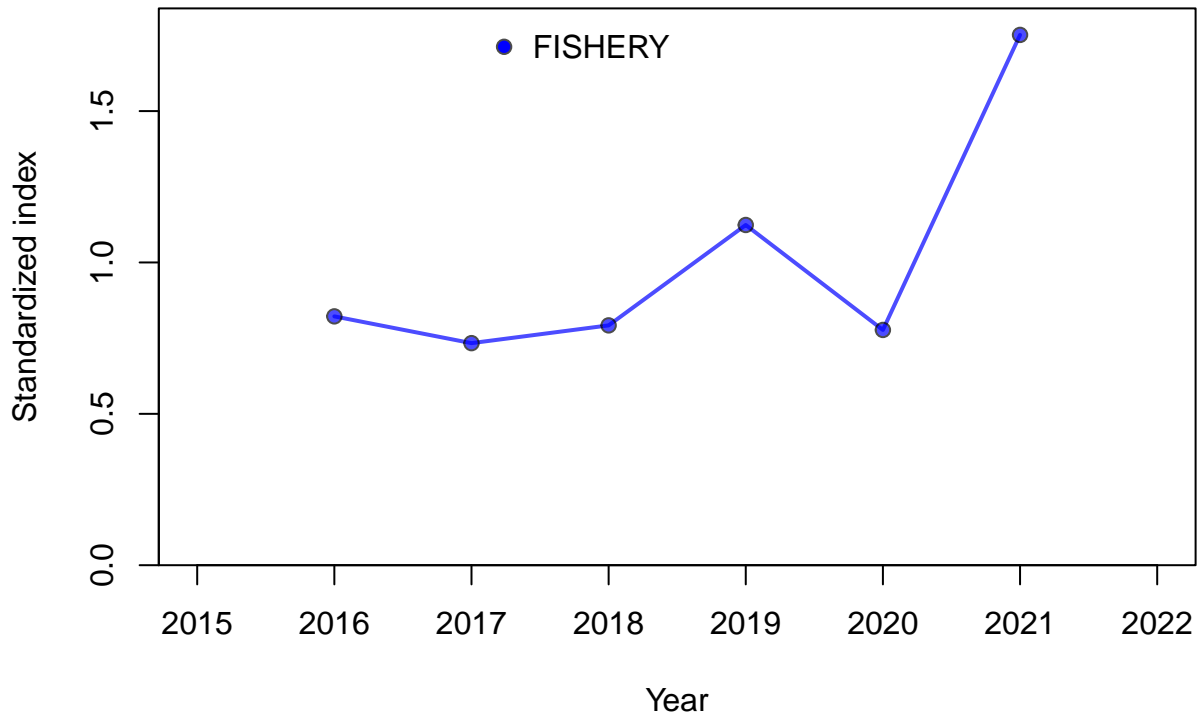
2019

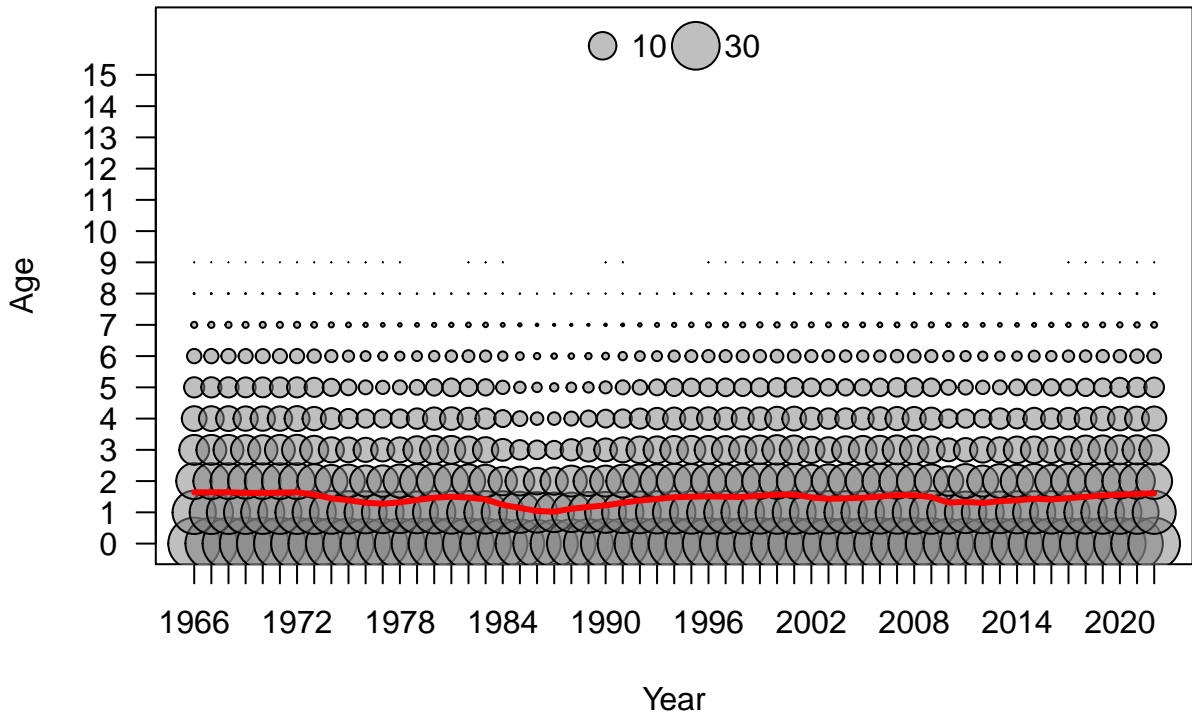
2020

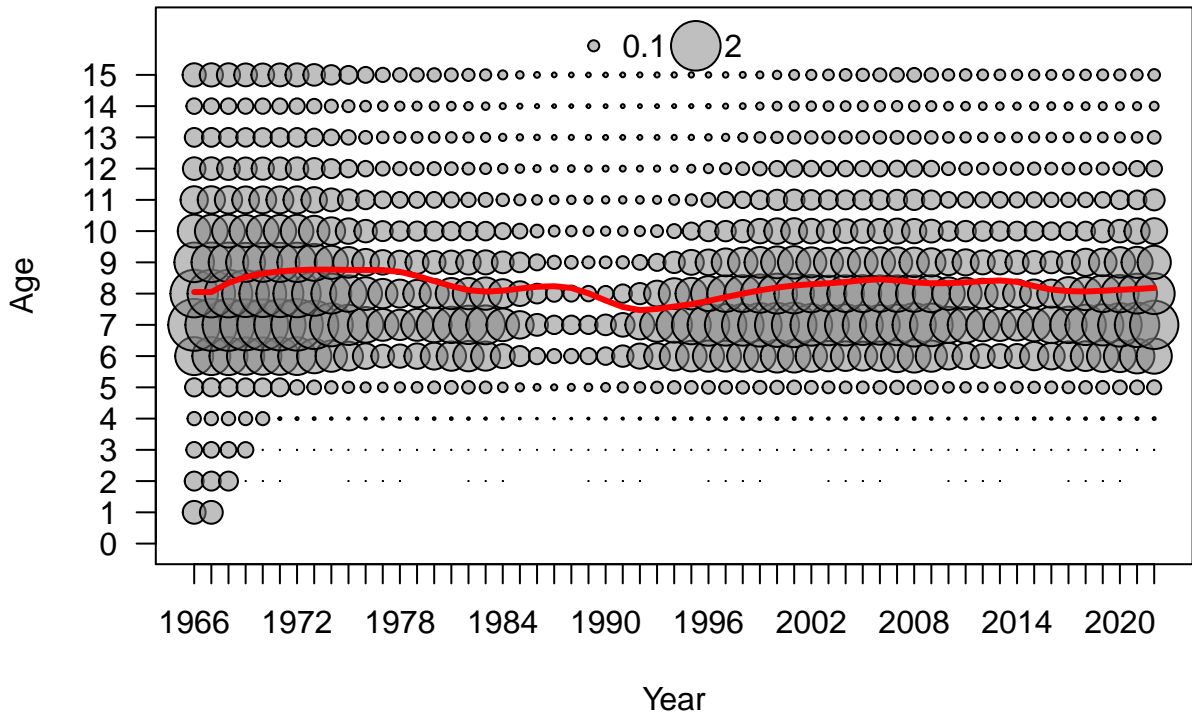
2021

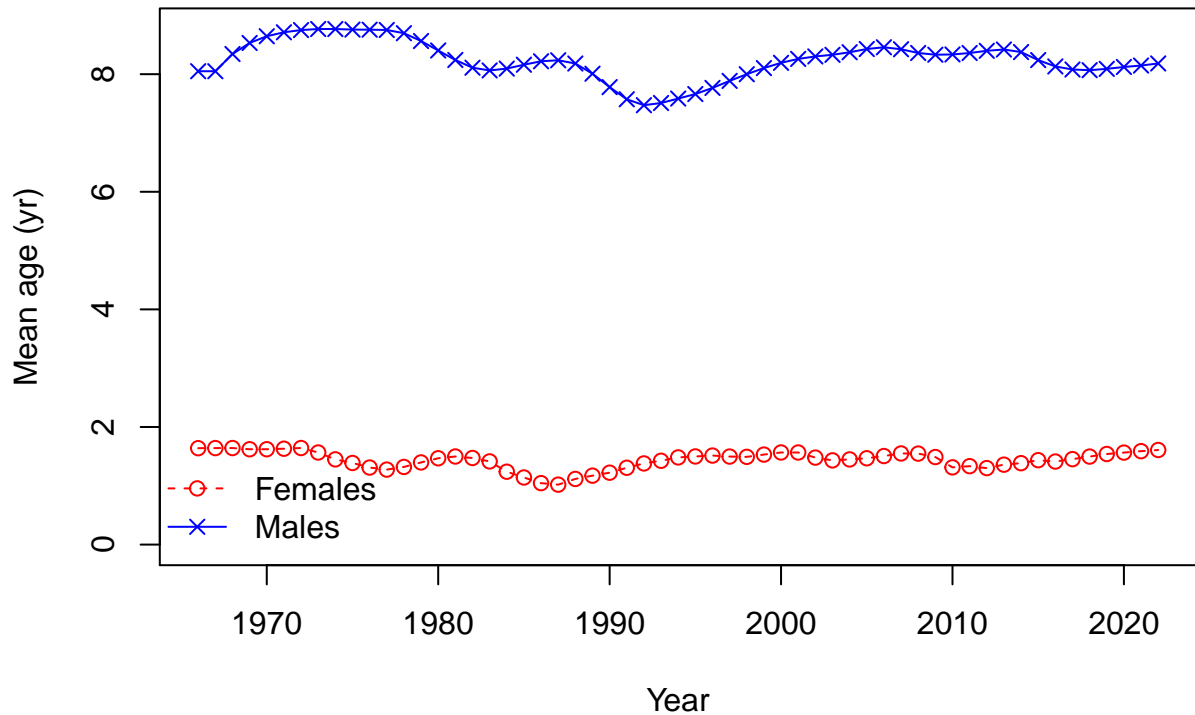
Year

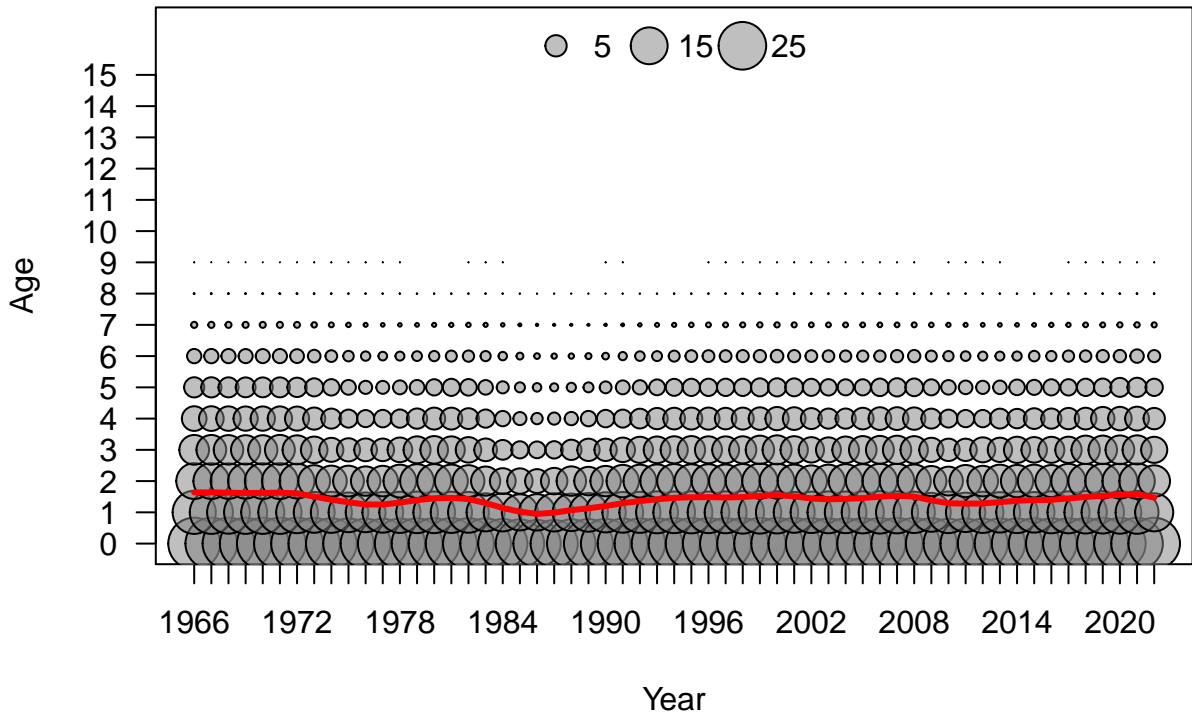


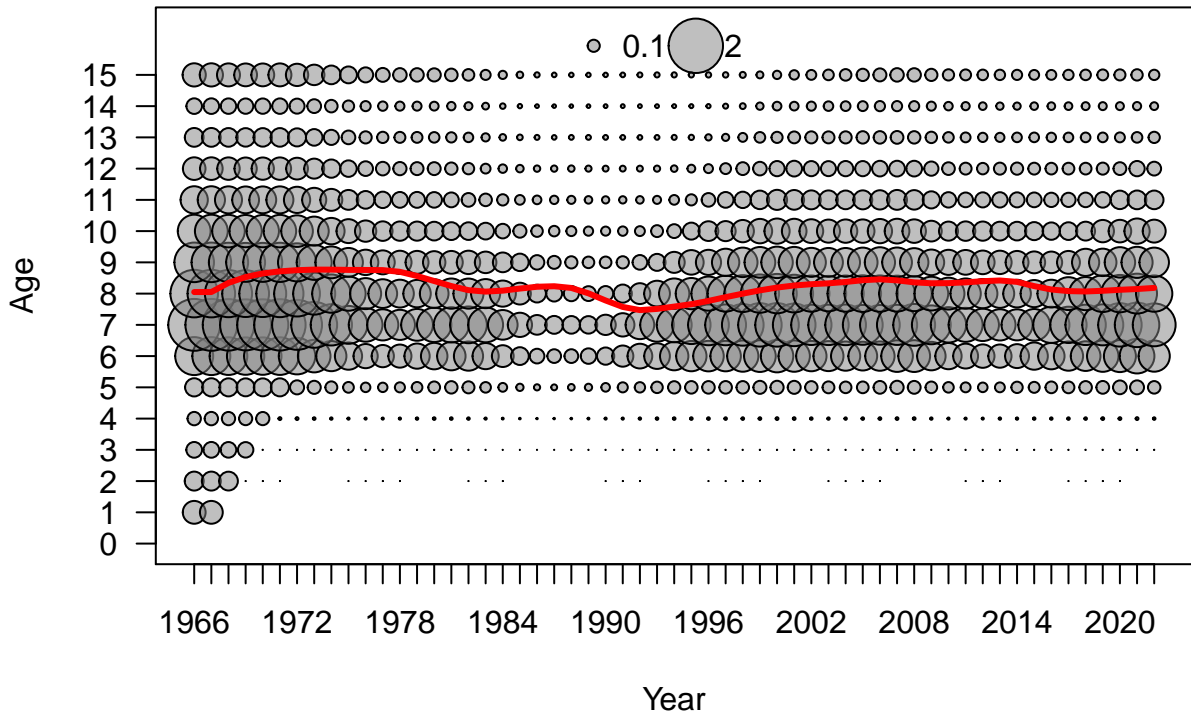


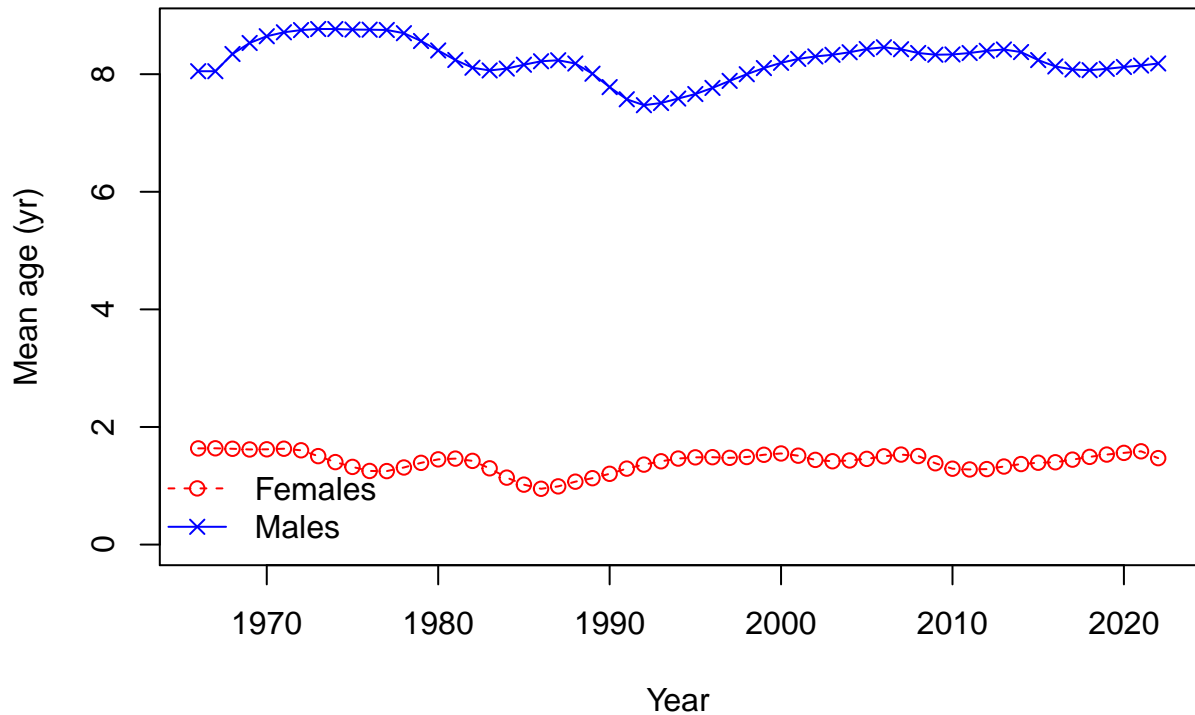




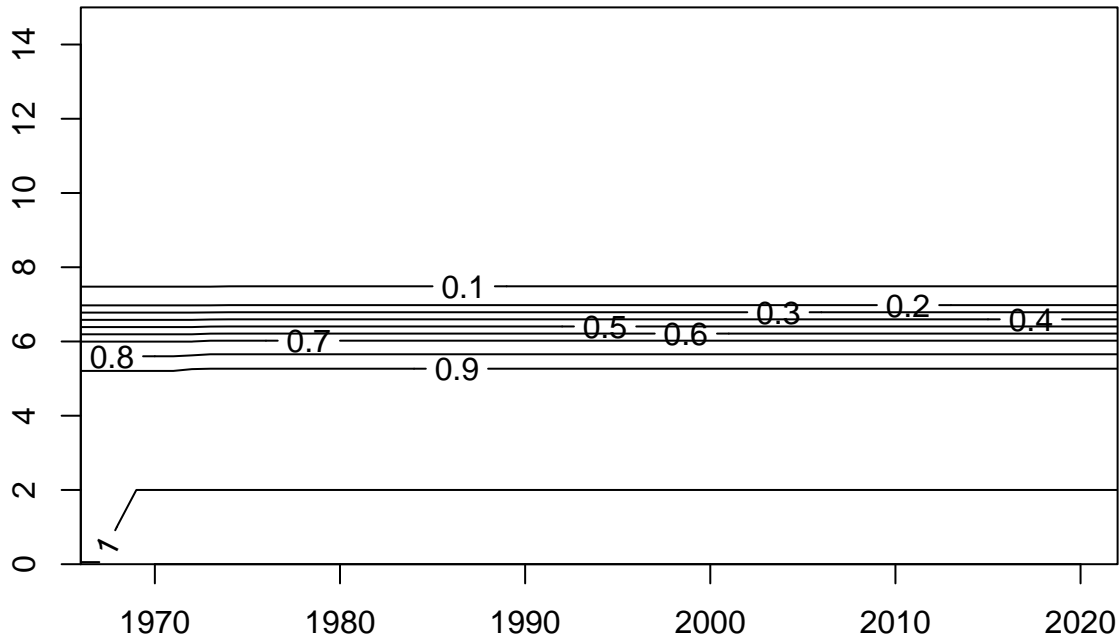




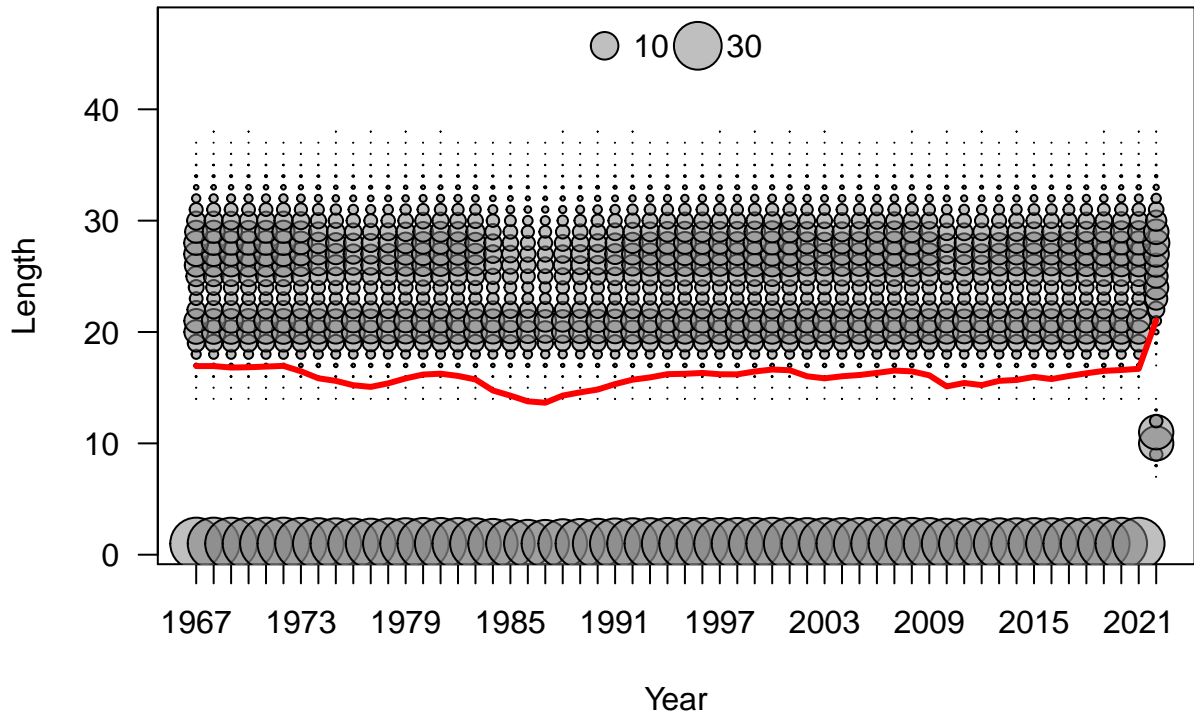


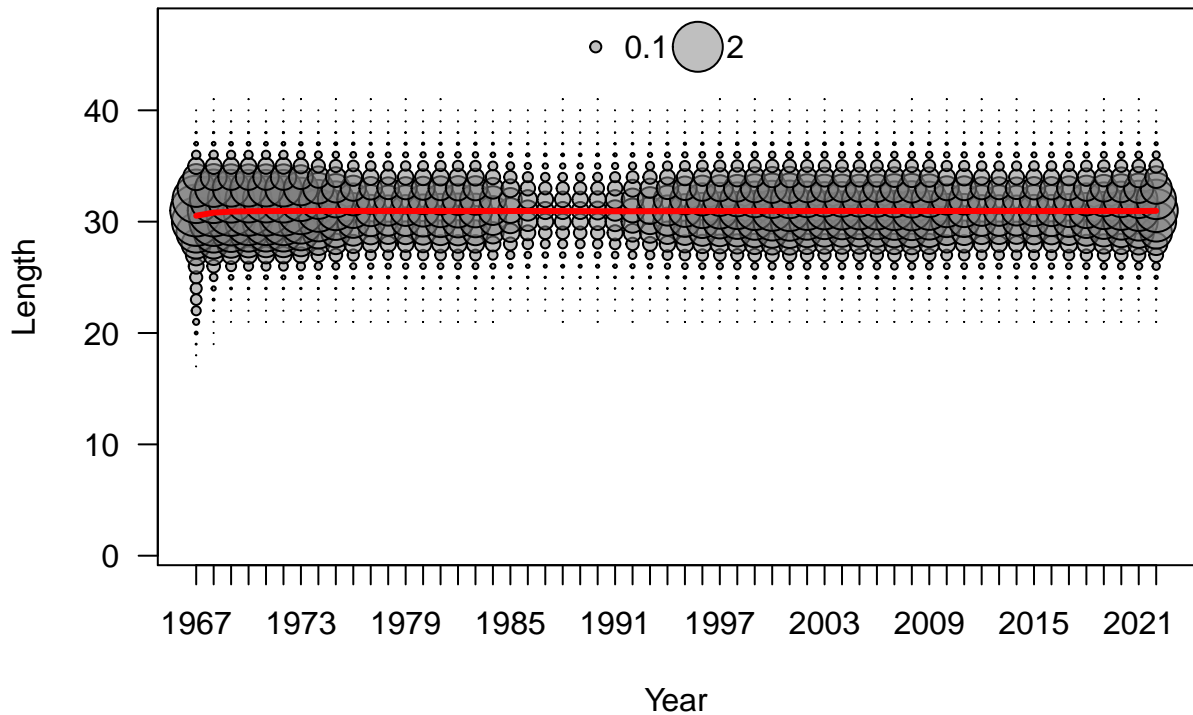


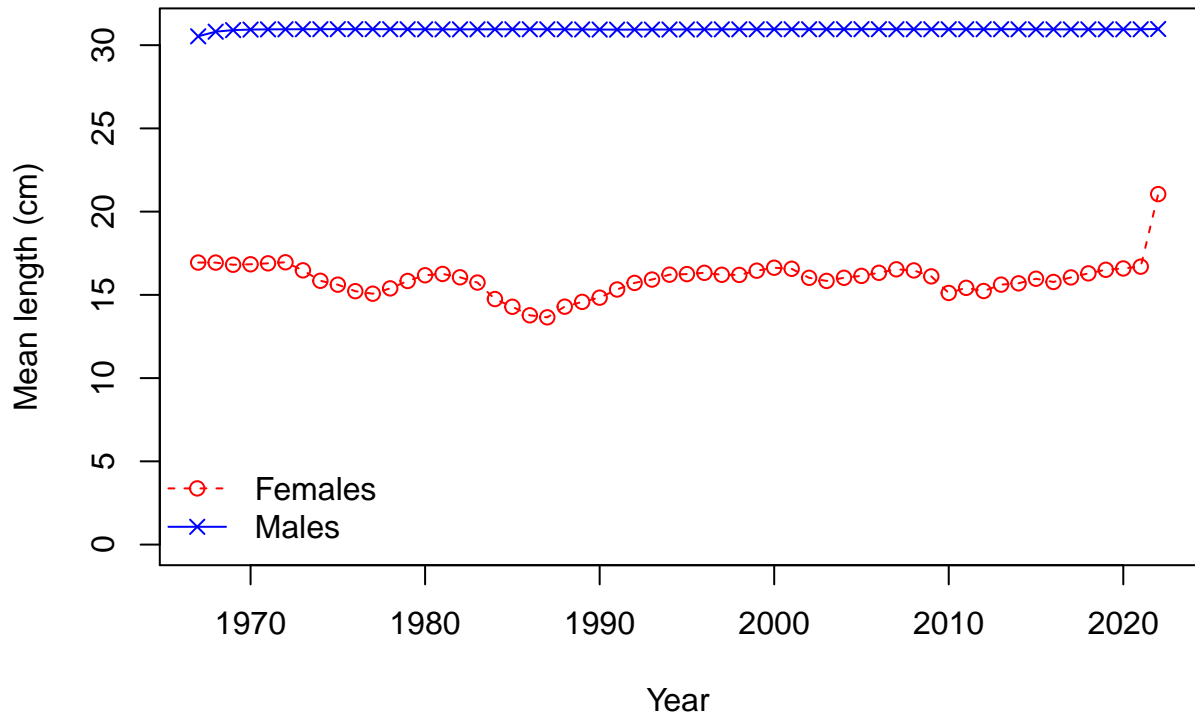
Age

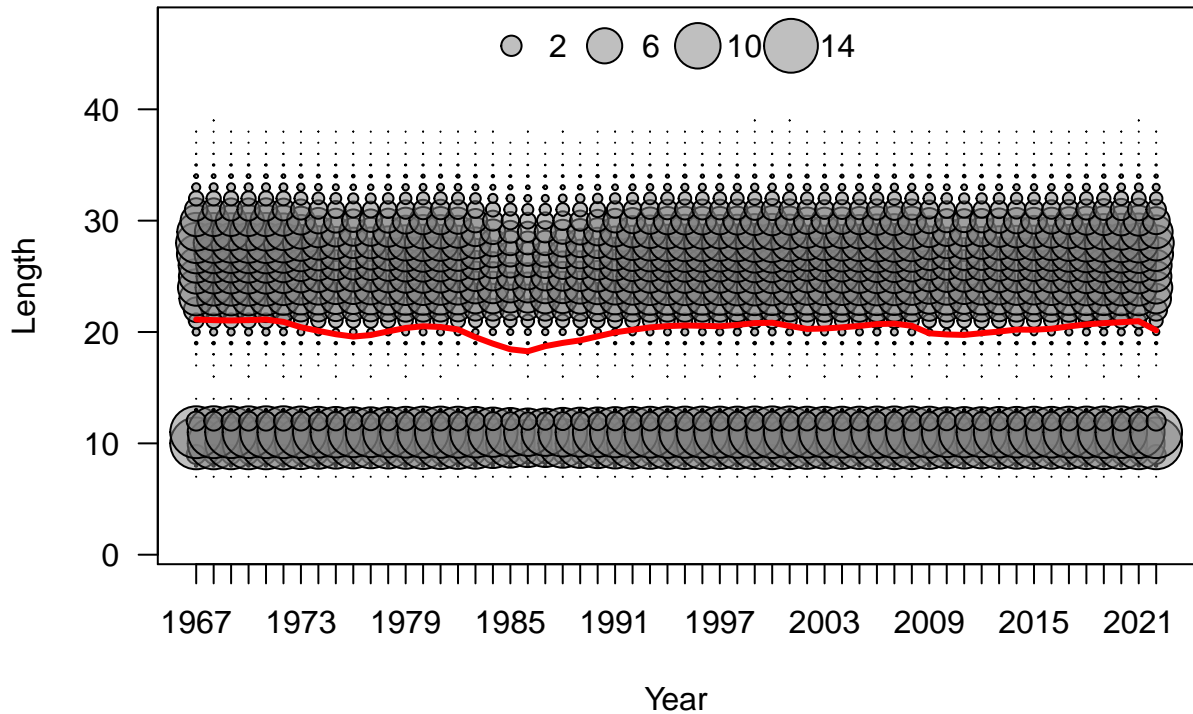


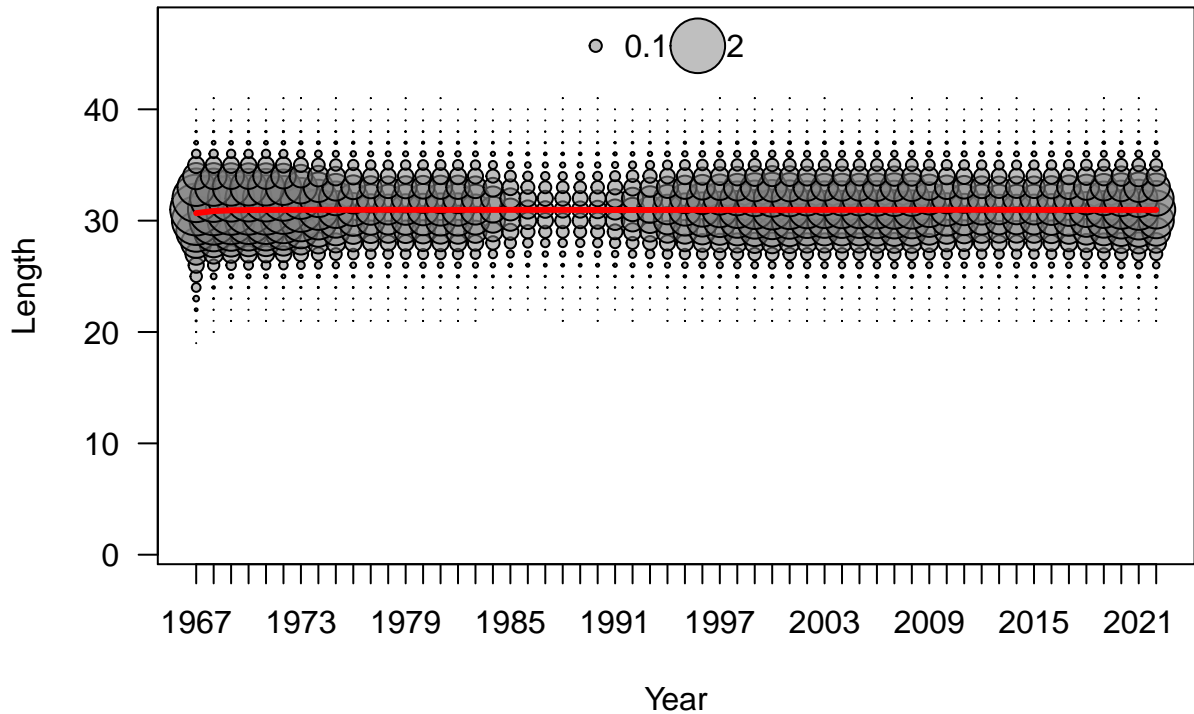
Year

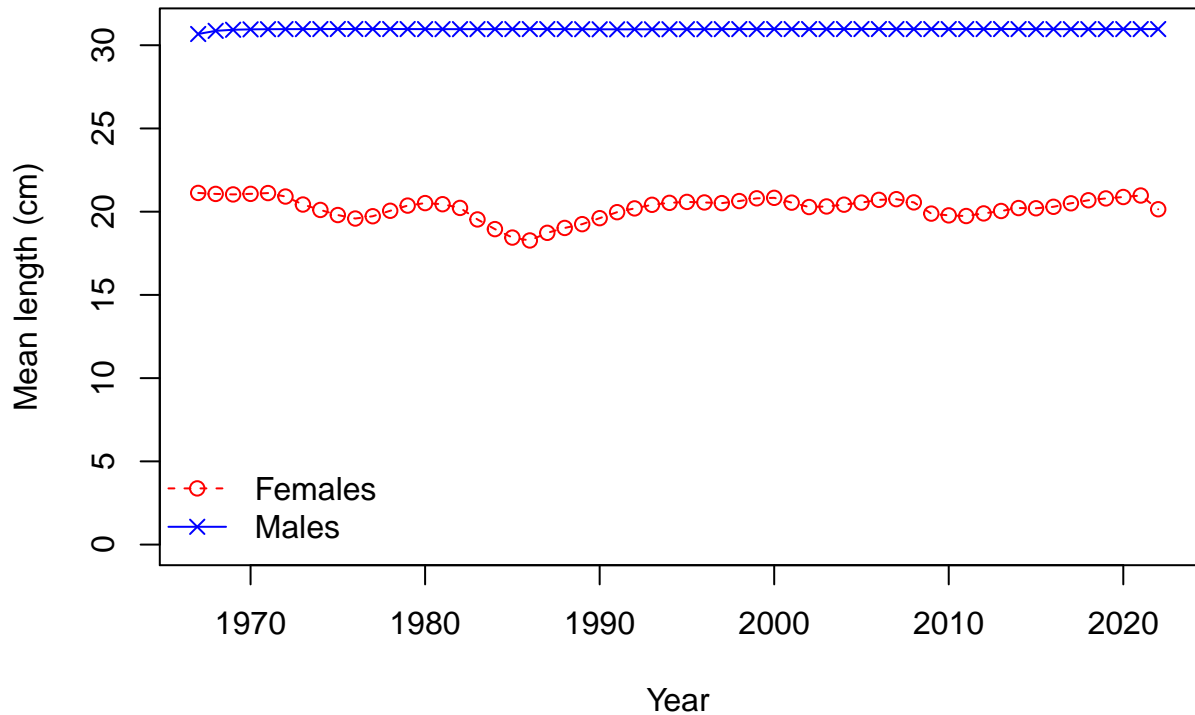




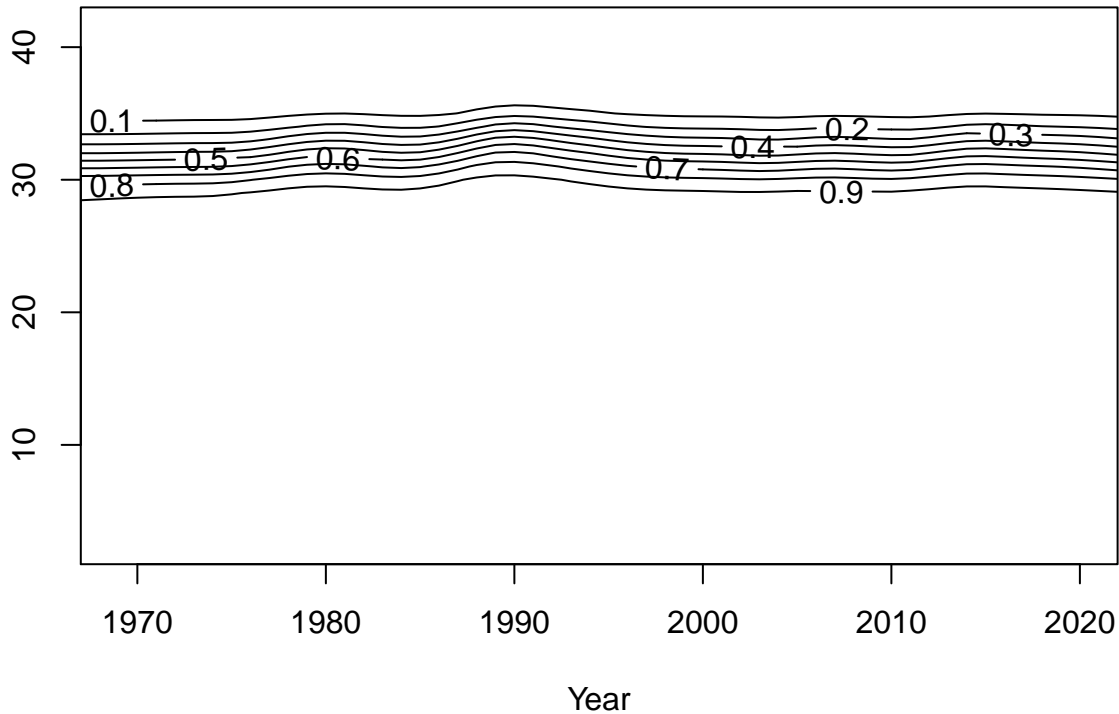


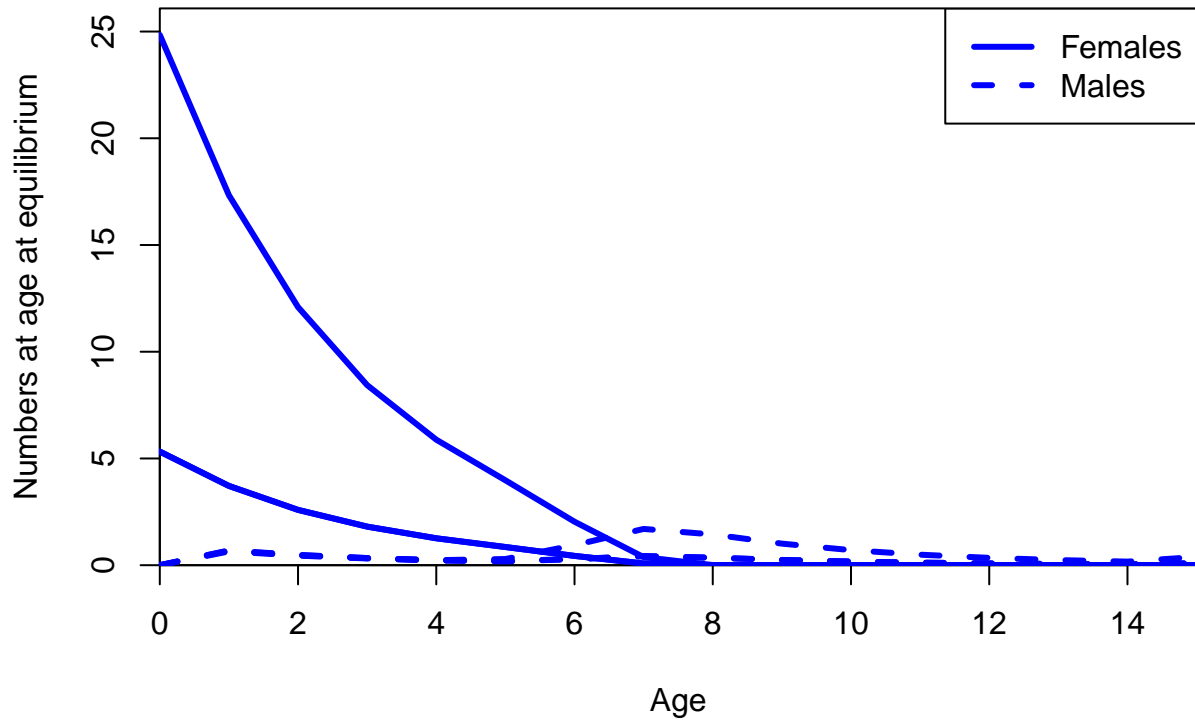


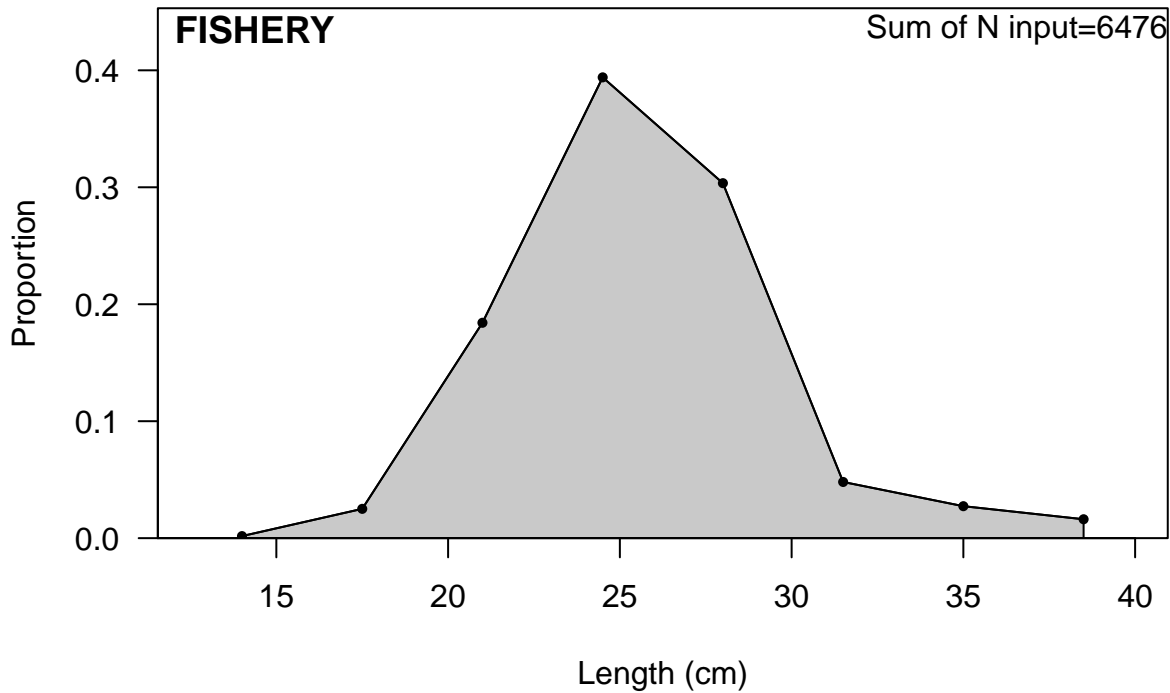


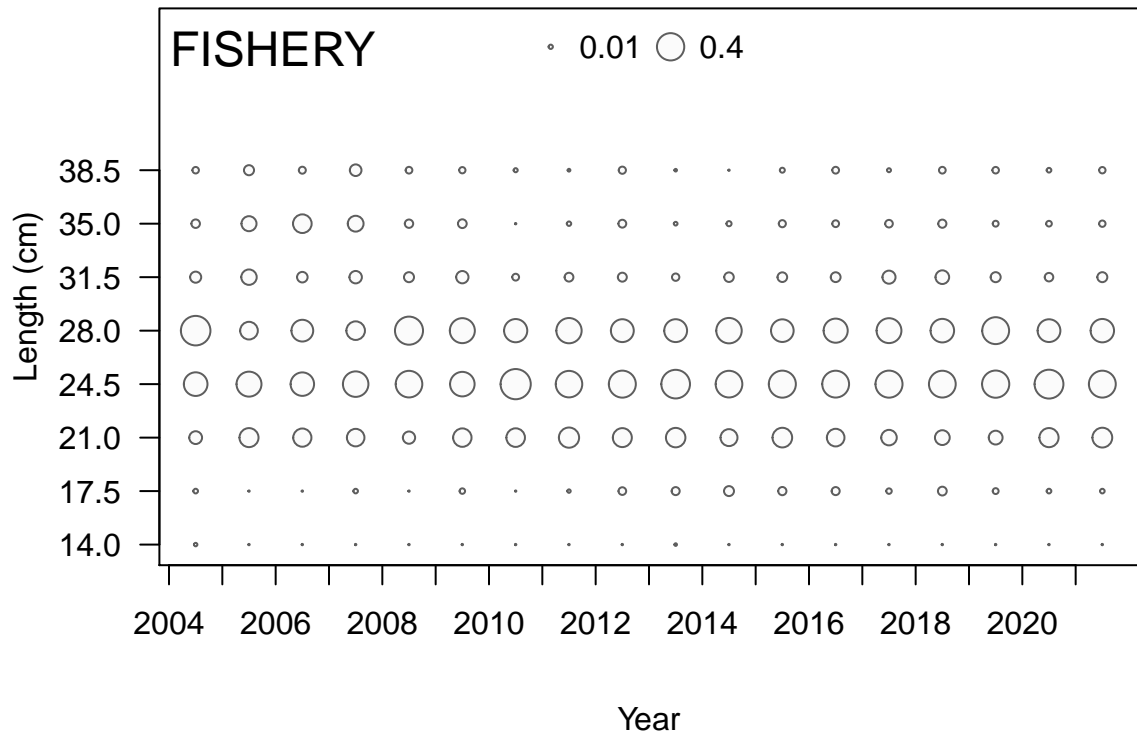


Length

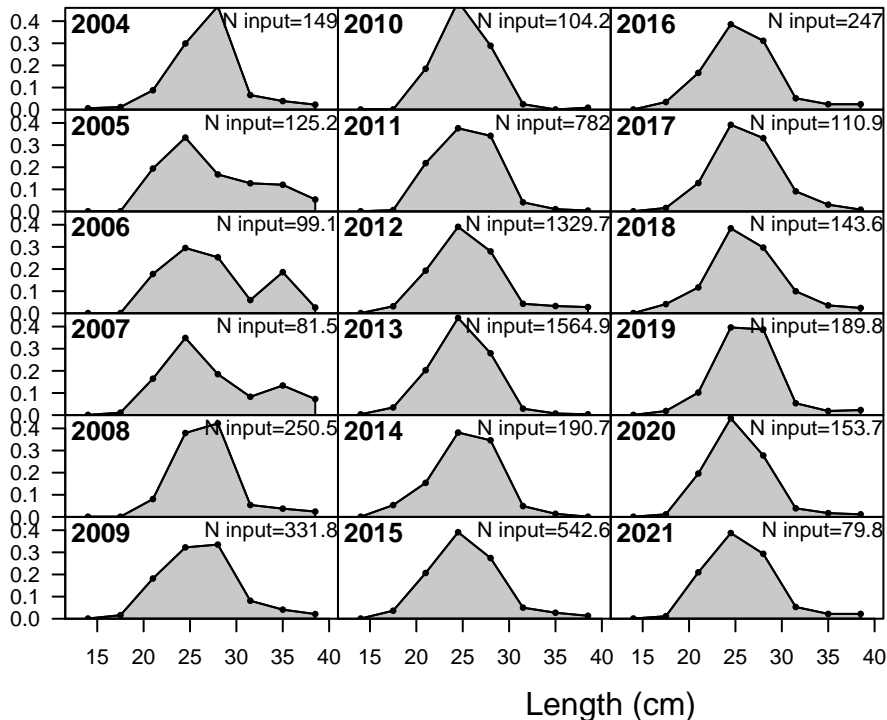


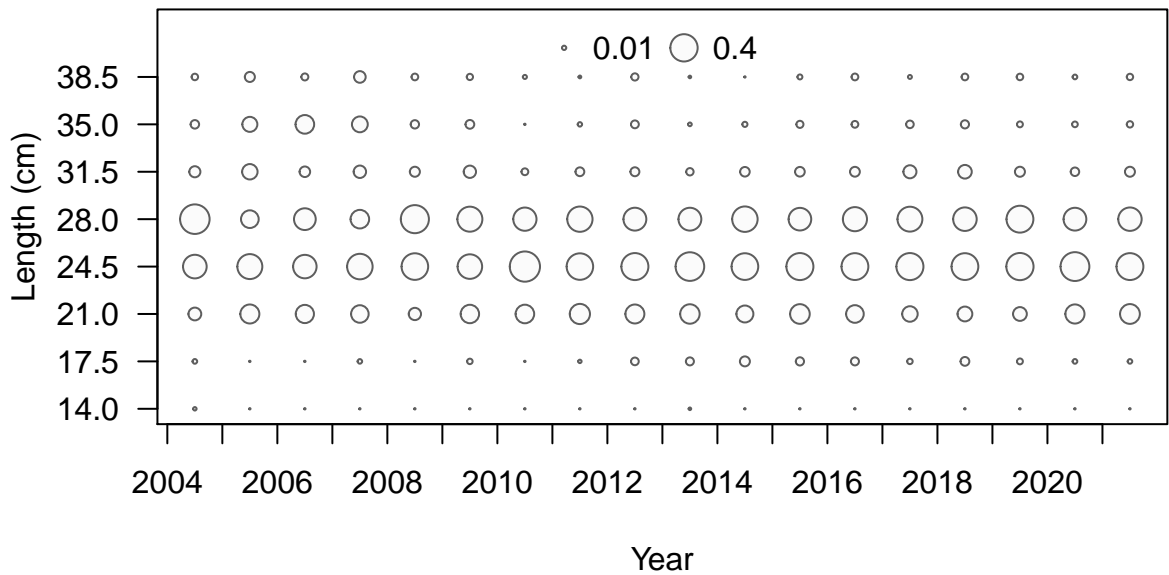




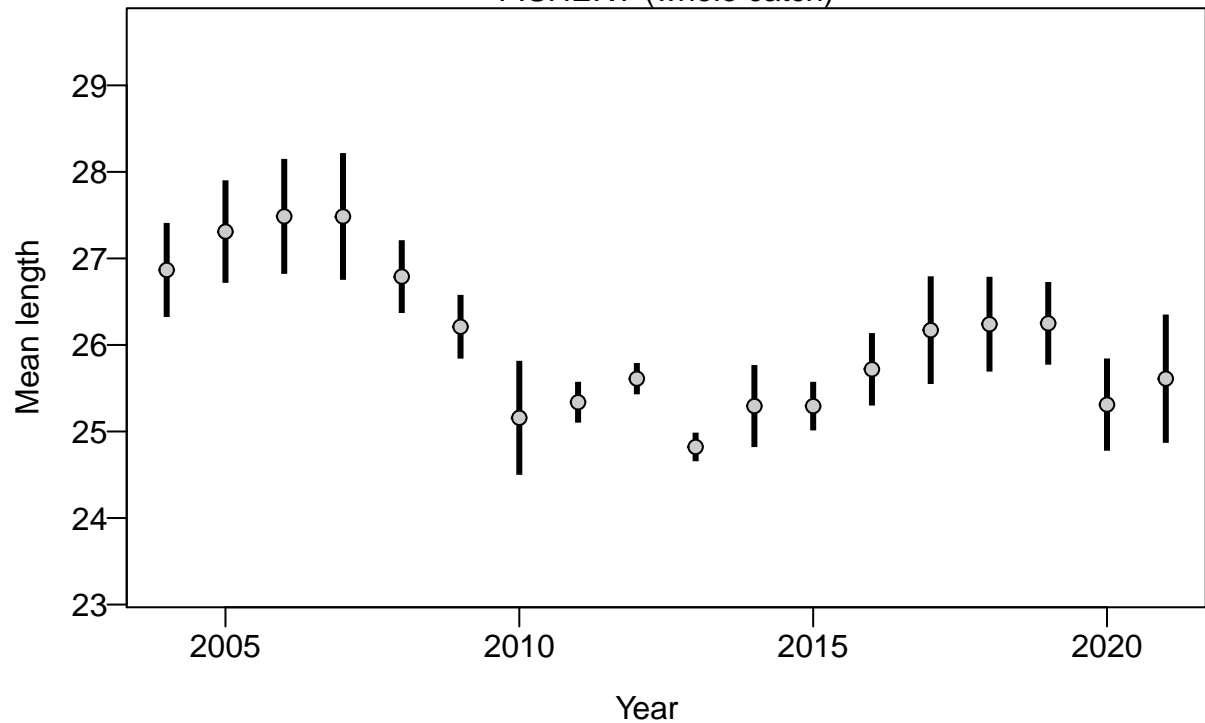


Proportion



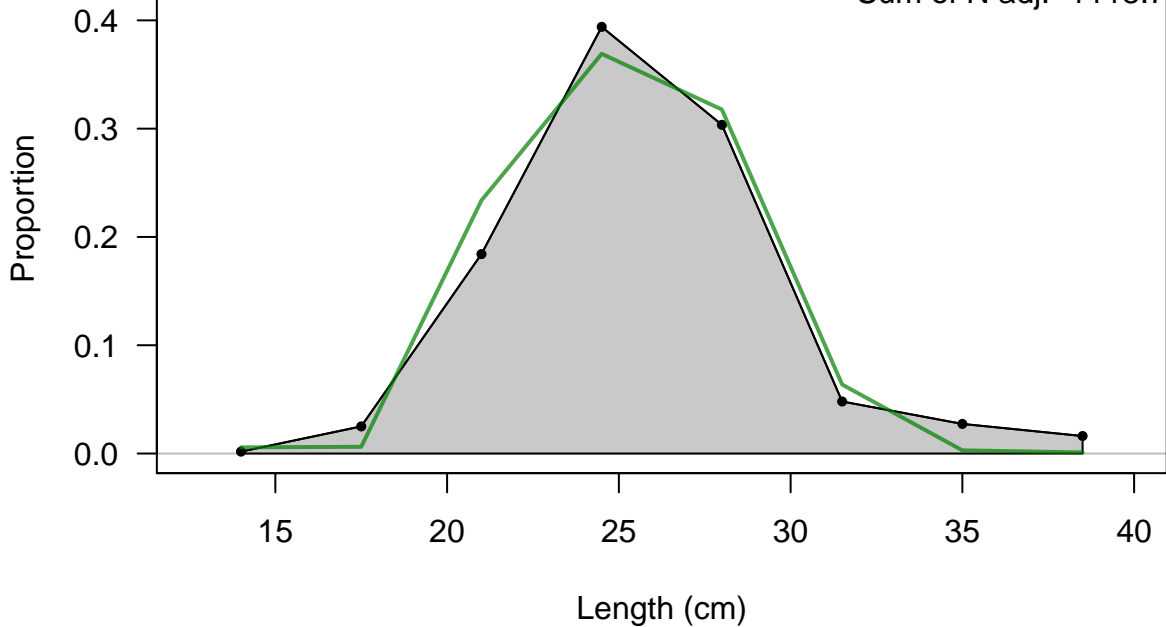


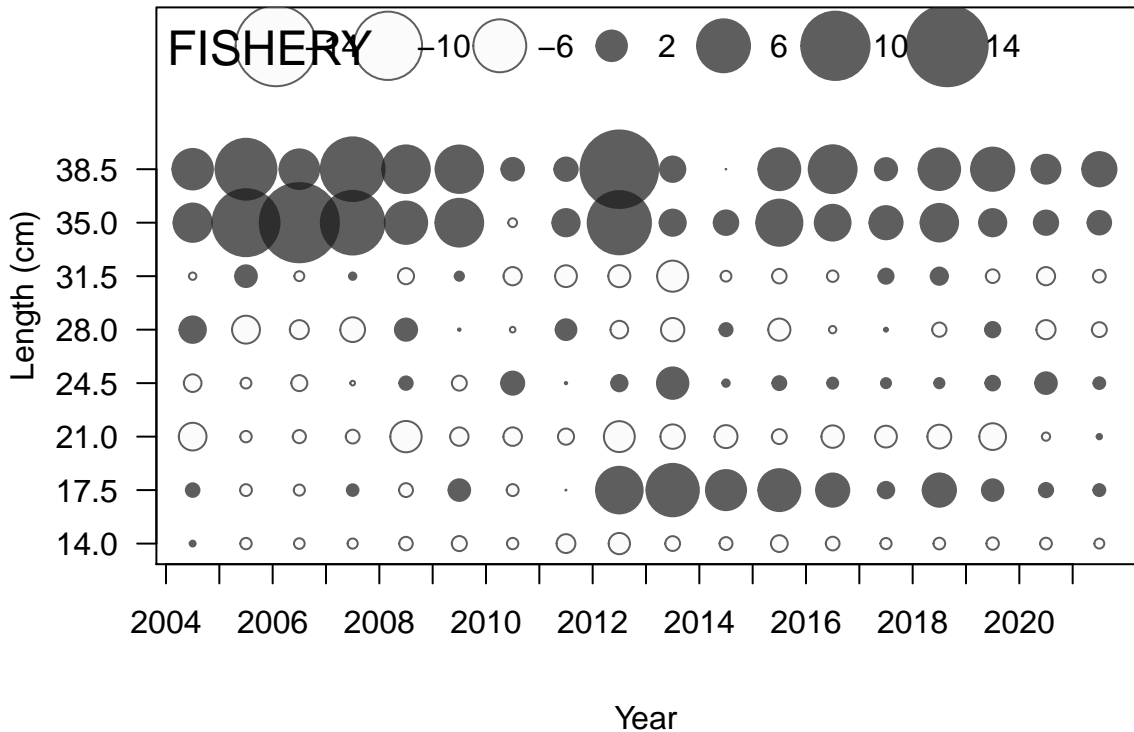
FISHERY (whole catch)



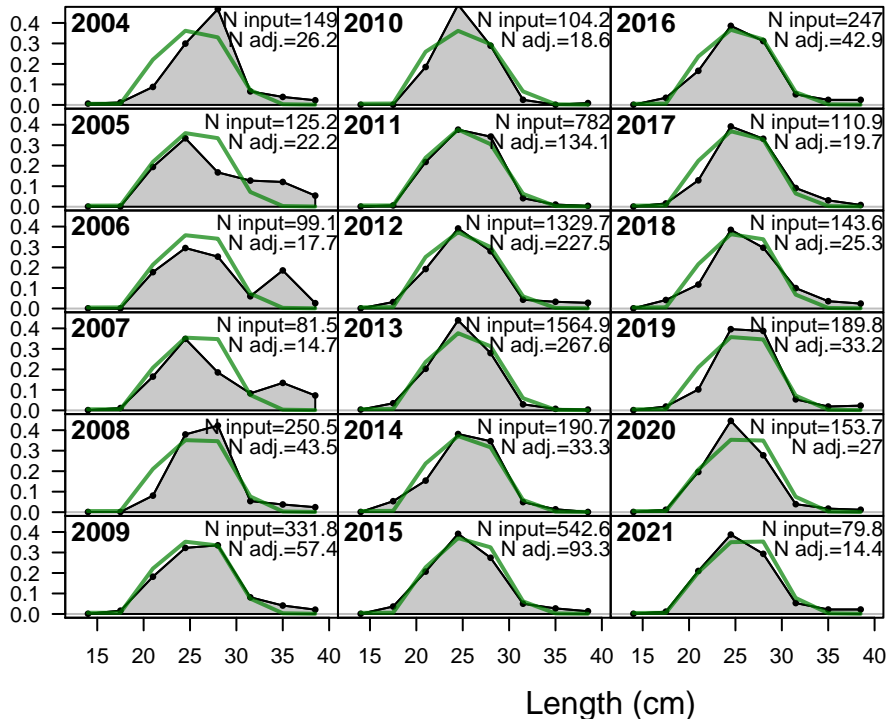
FISHERY

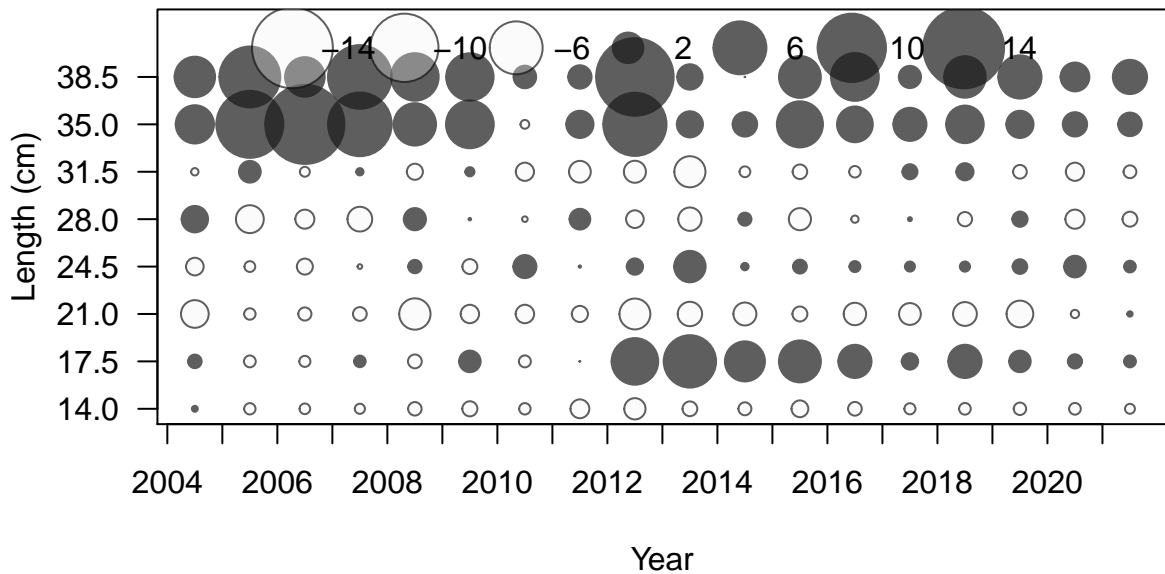
Sum of N input=6476
Sum of N adj.=1118.7



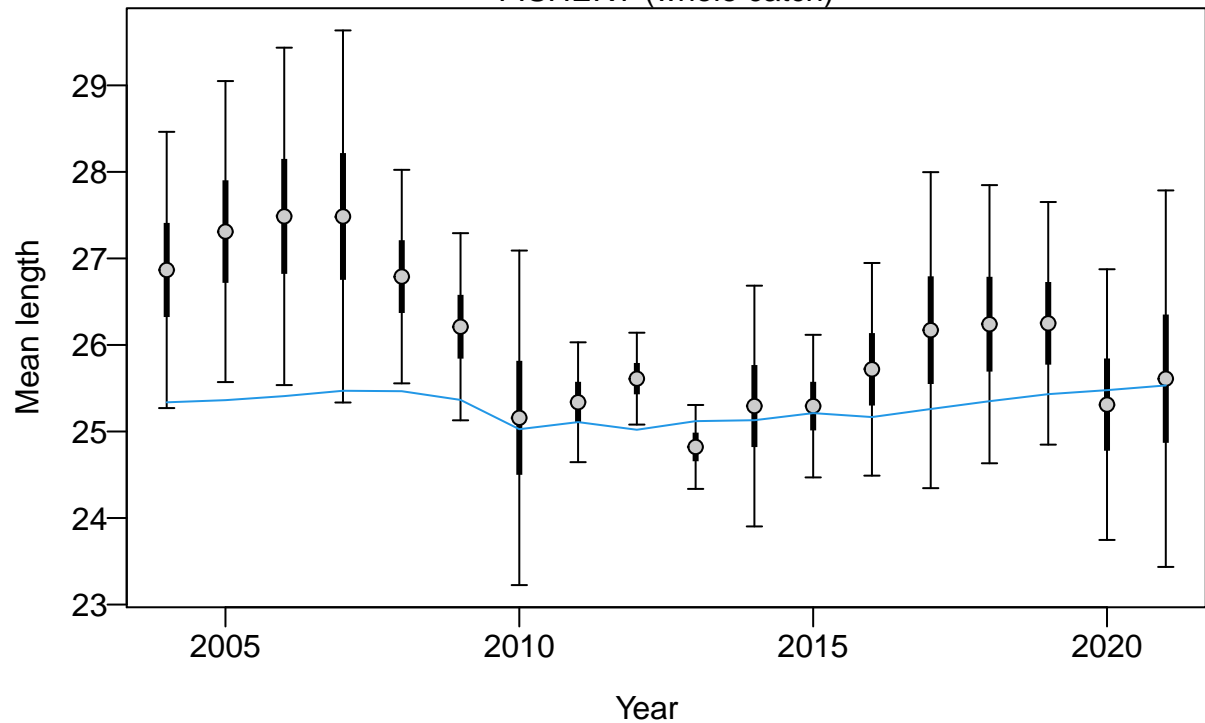


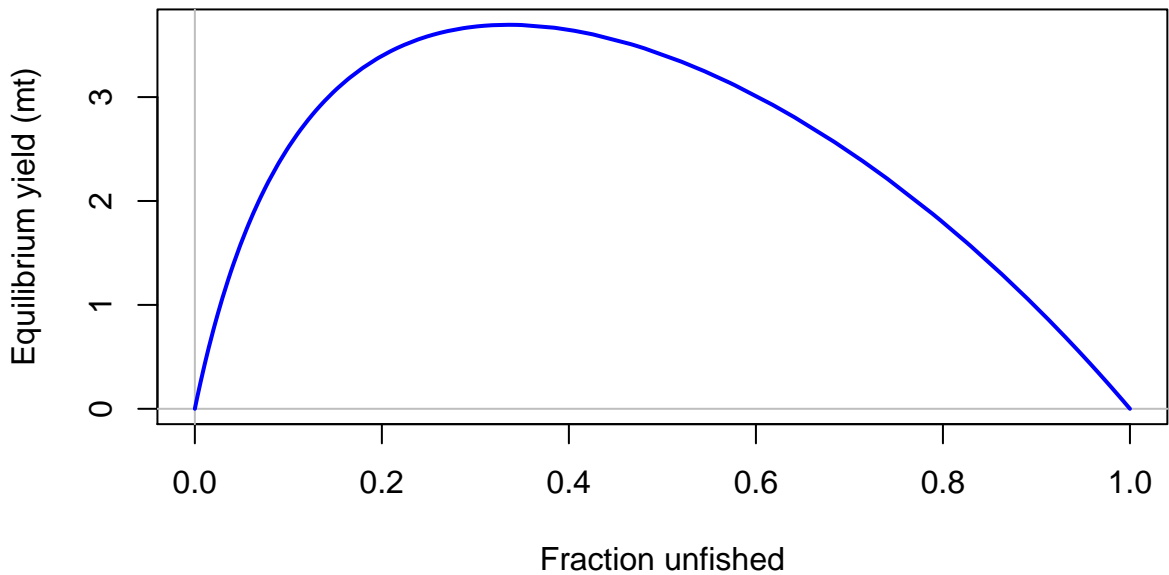
Proportion

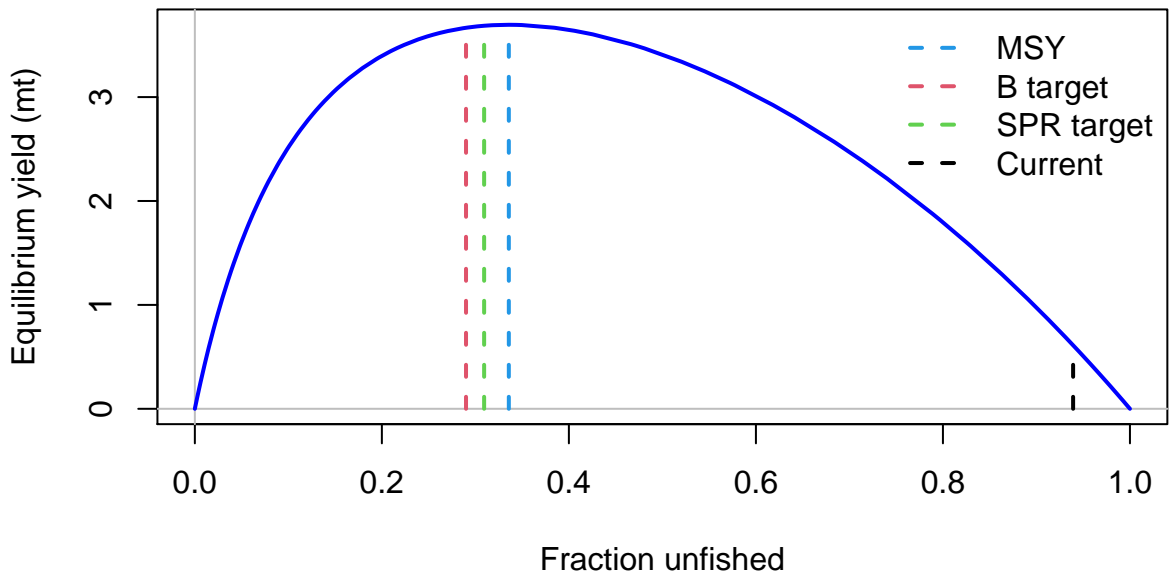


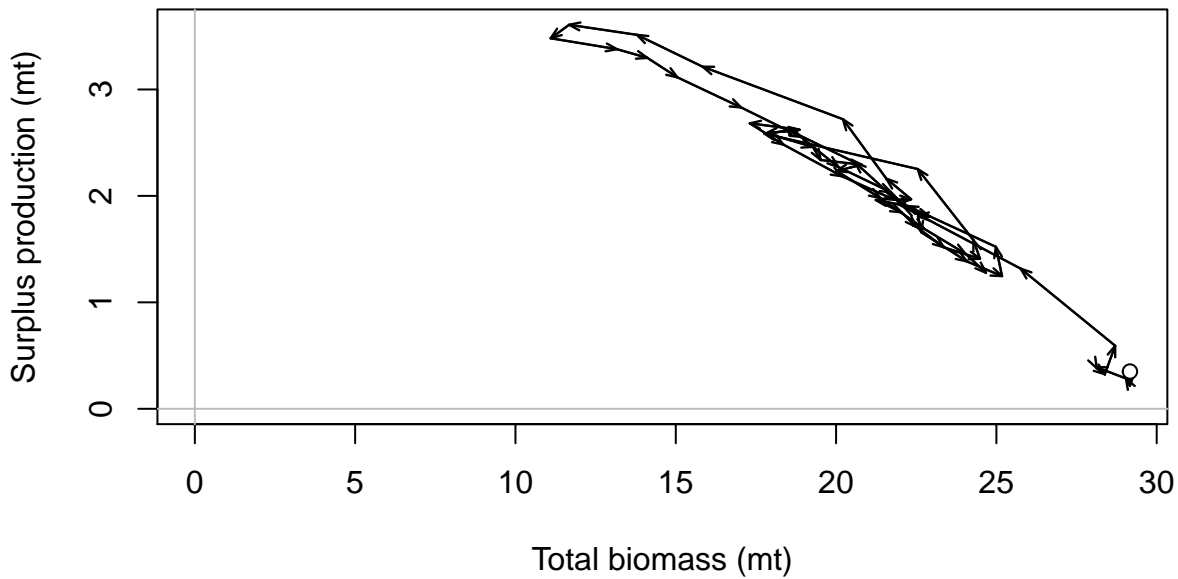


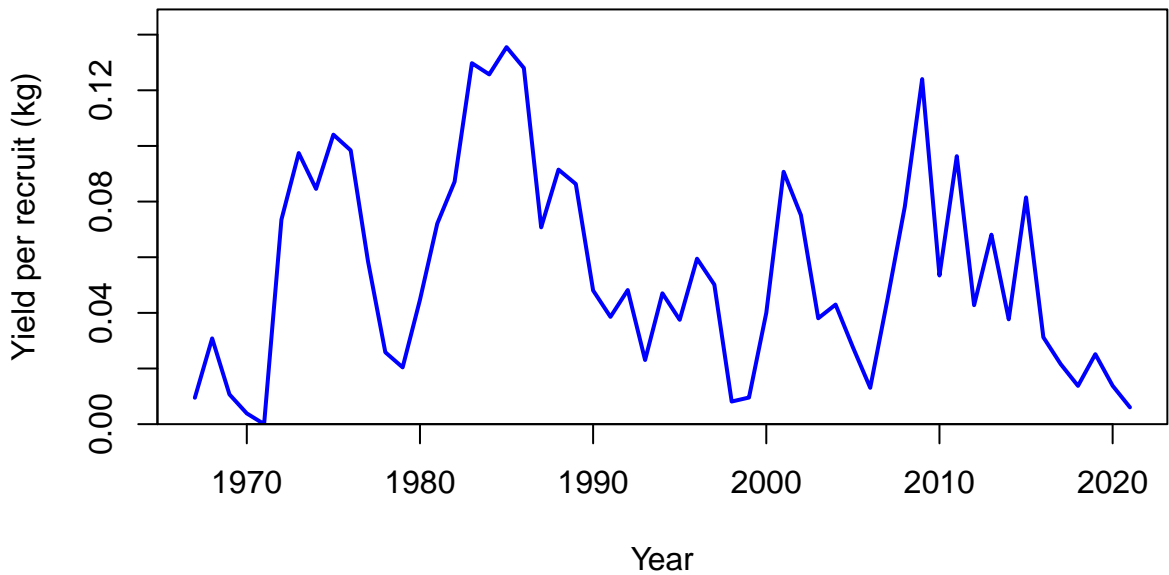
FISHERY (whole catch)

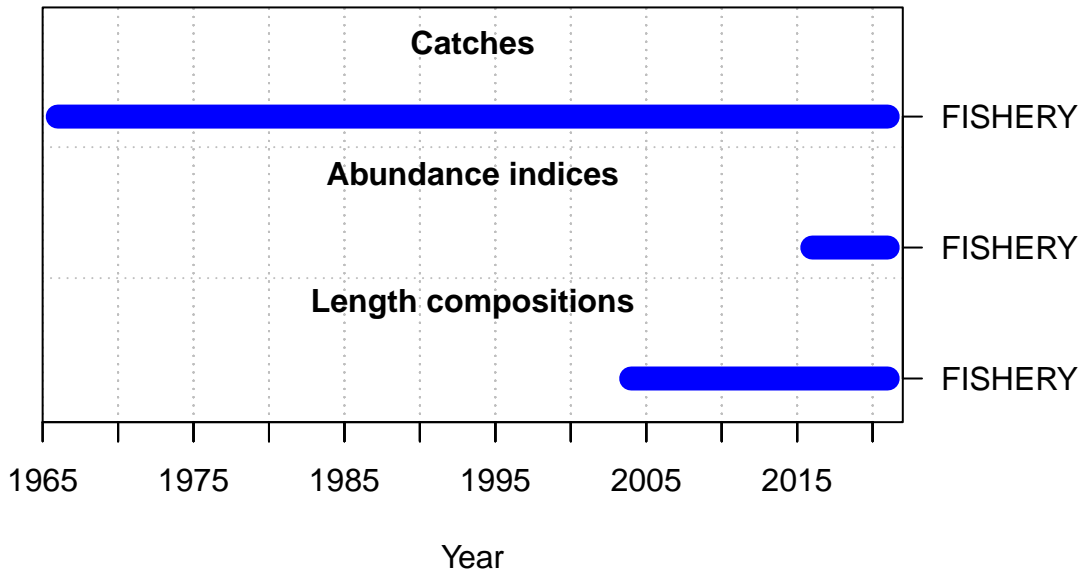


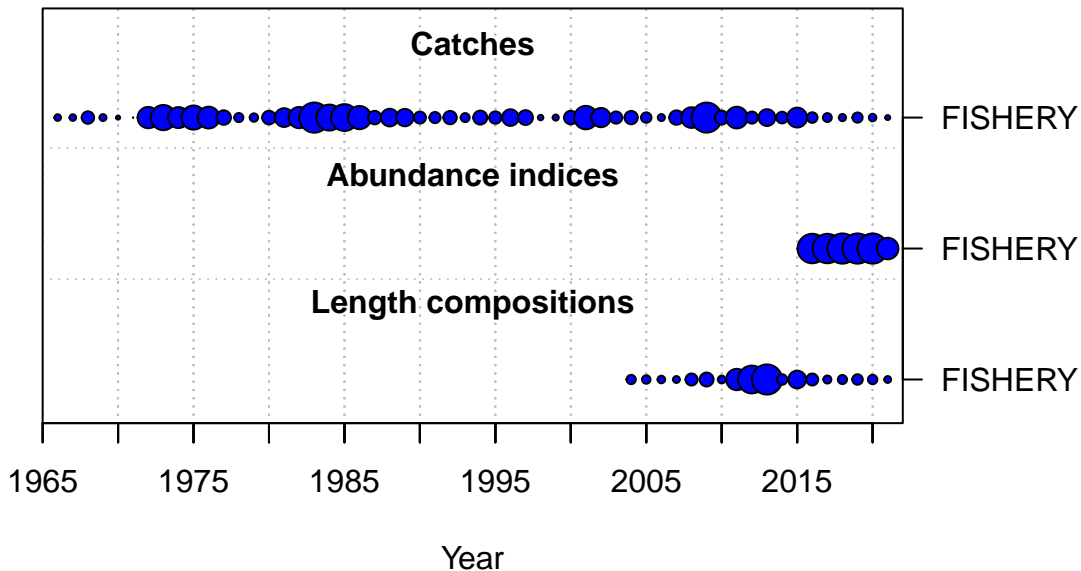




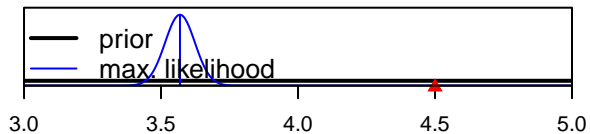




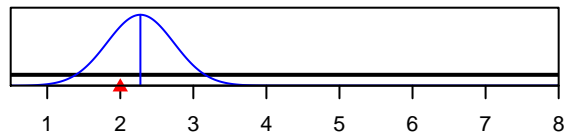




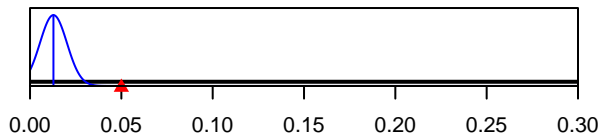
SR_LN(R0)



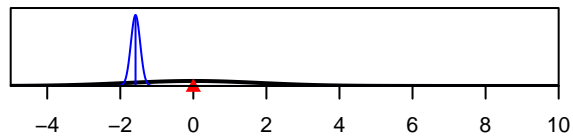
Size_95%width_FISHERY(1)



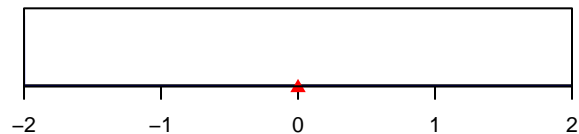
InitF_seas_1flt_1FISHERY



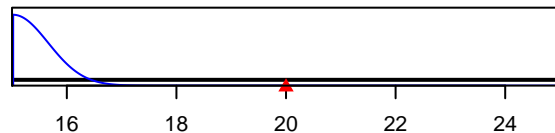
ln(DM_theta)_1



LnQ_base_FISHERY(1)



Size_inflection_FISHERY(1)



Parameter value