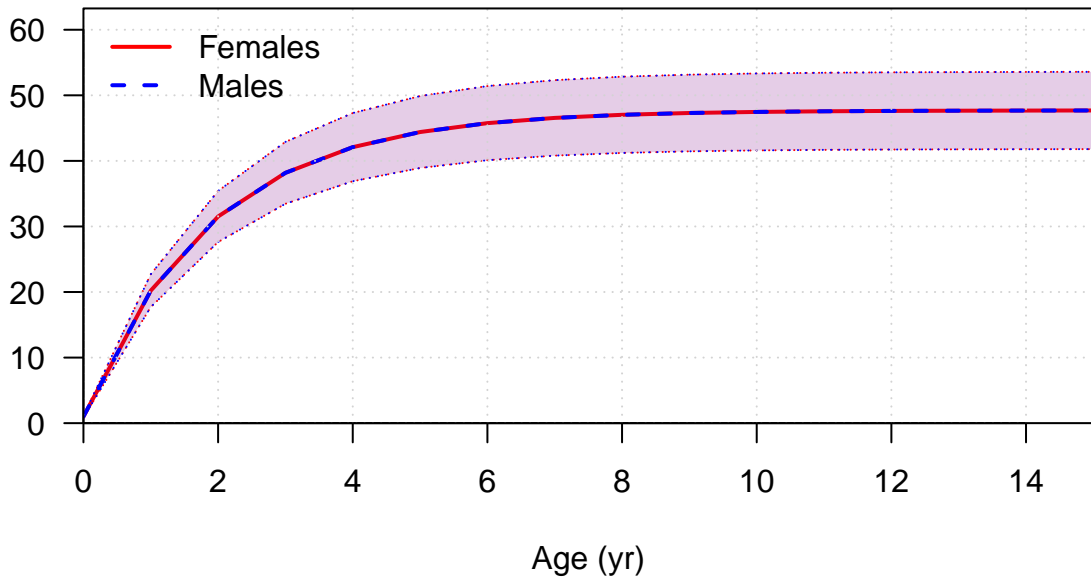
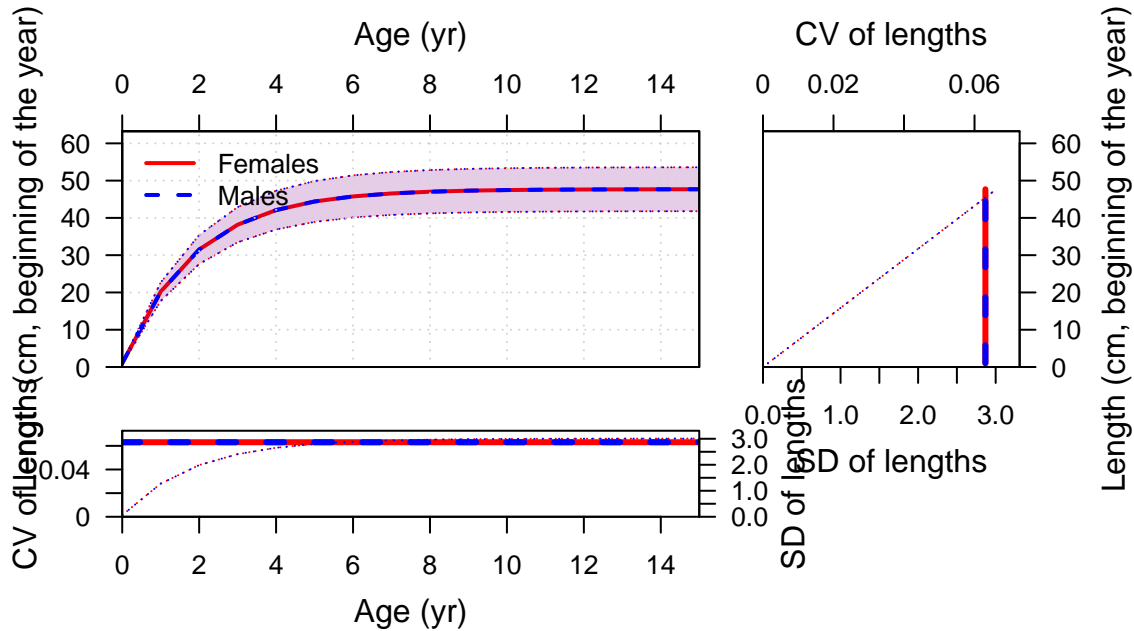
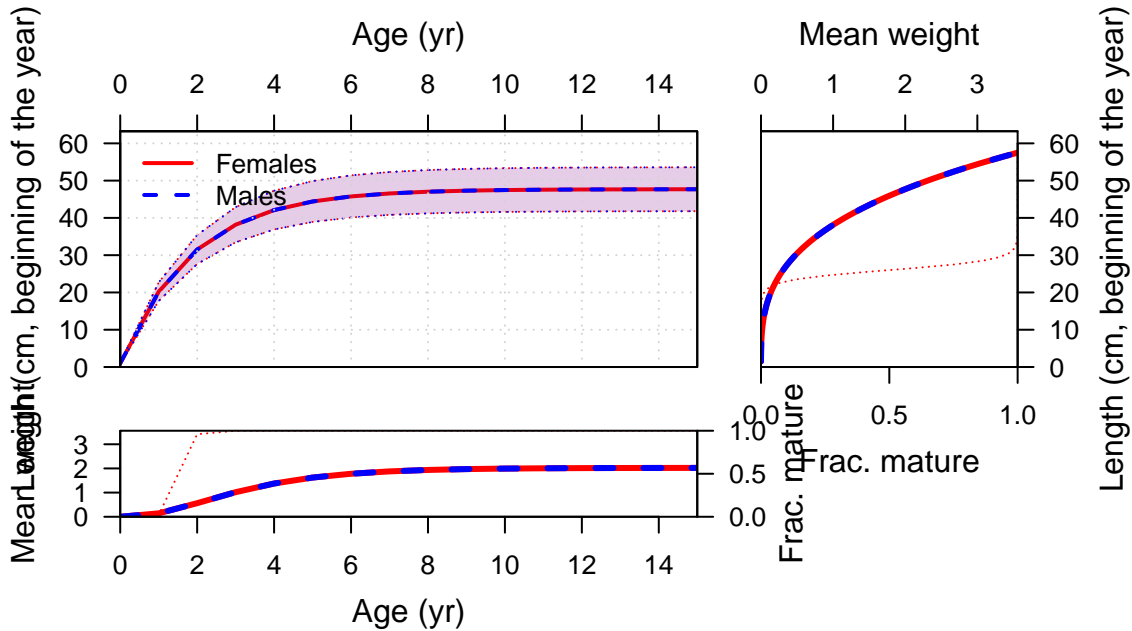


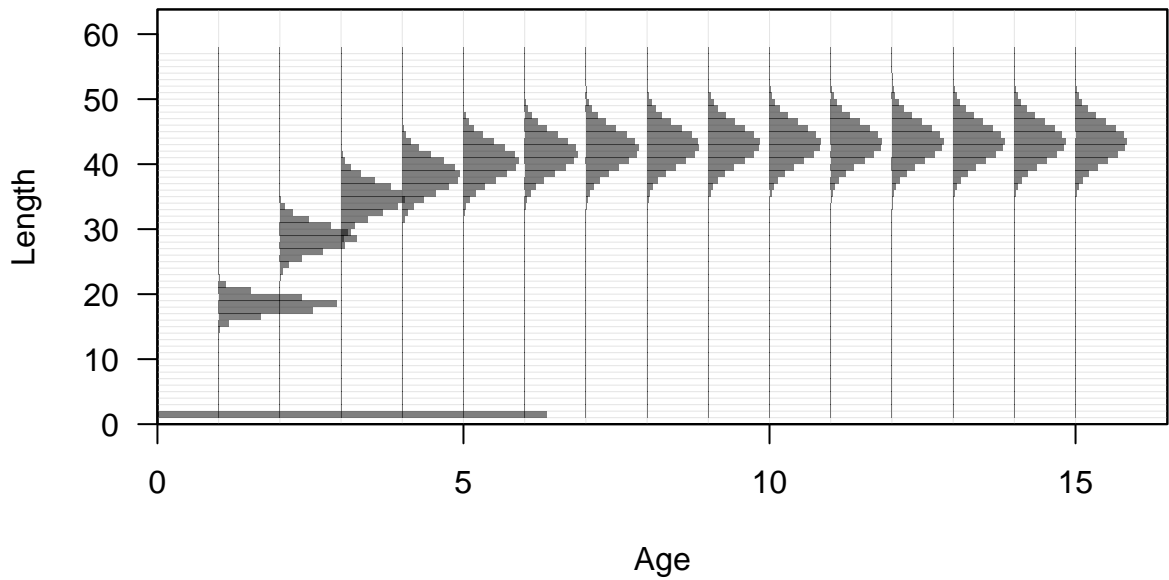
Plots created using the 'r4ss' package in R
Stock Synthesis version: 3.30.19.0
StartTime: Fri Oct 21 15:10:09 2022
Data_File: data.ss
Control_File: control.ss

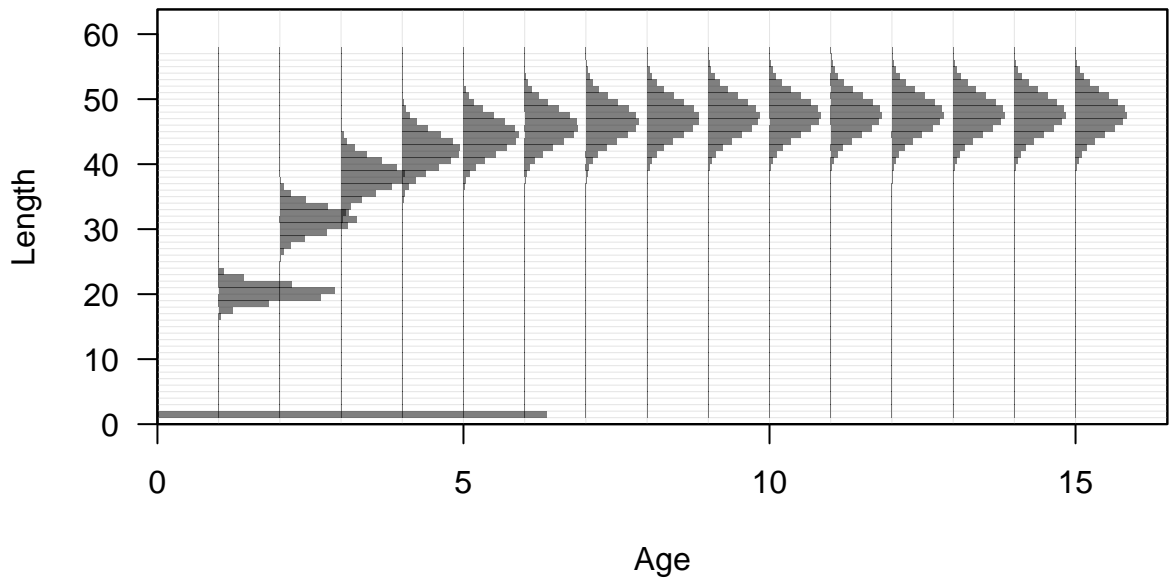
Length (cm, beginning of the year)

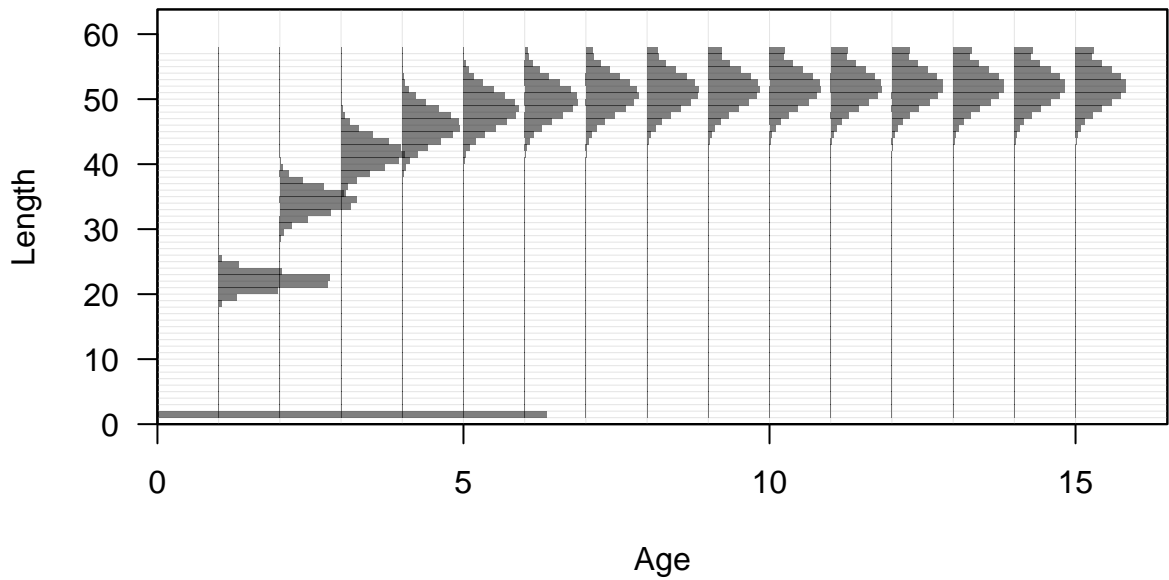


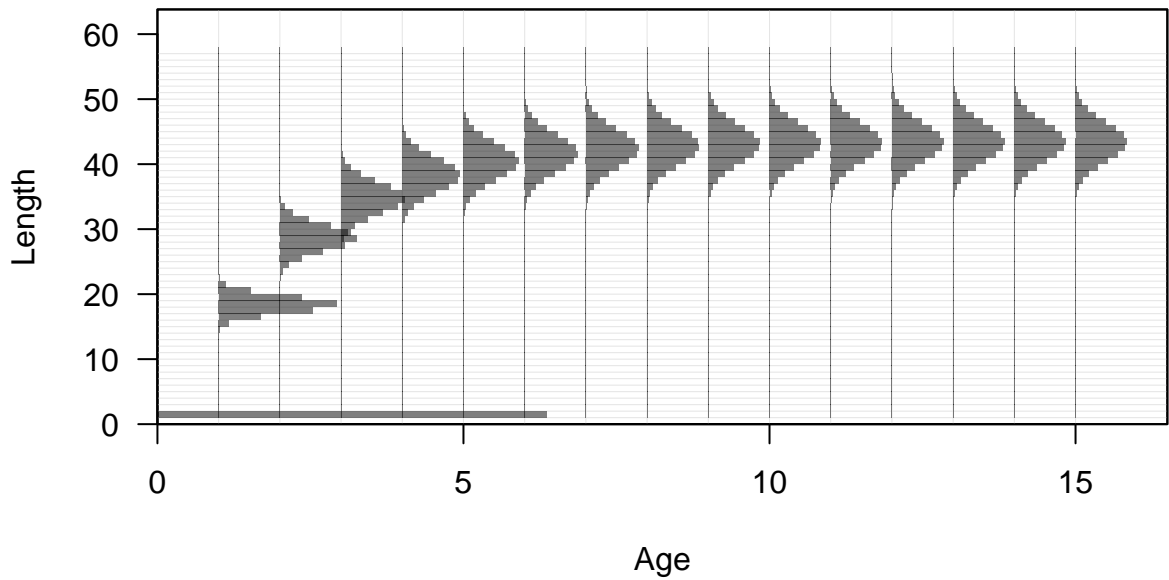


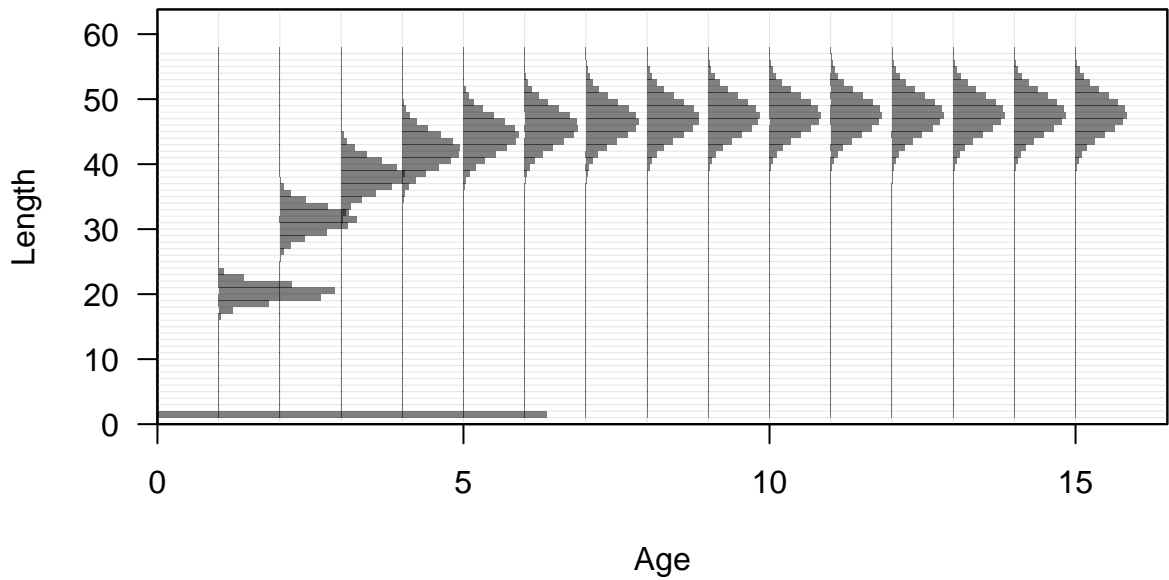


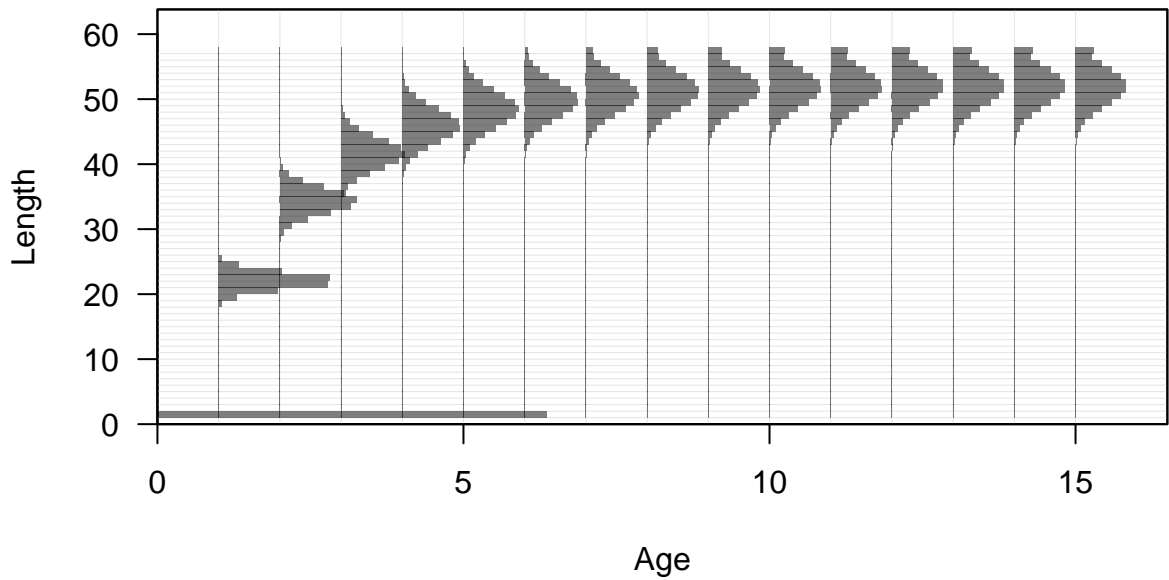


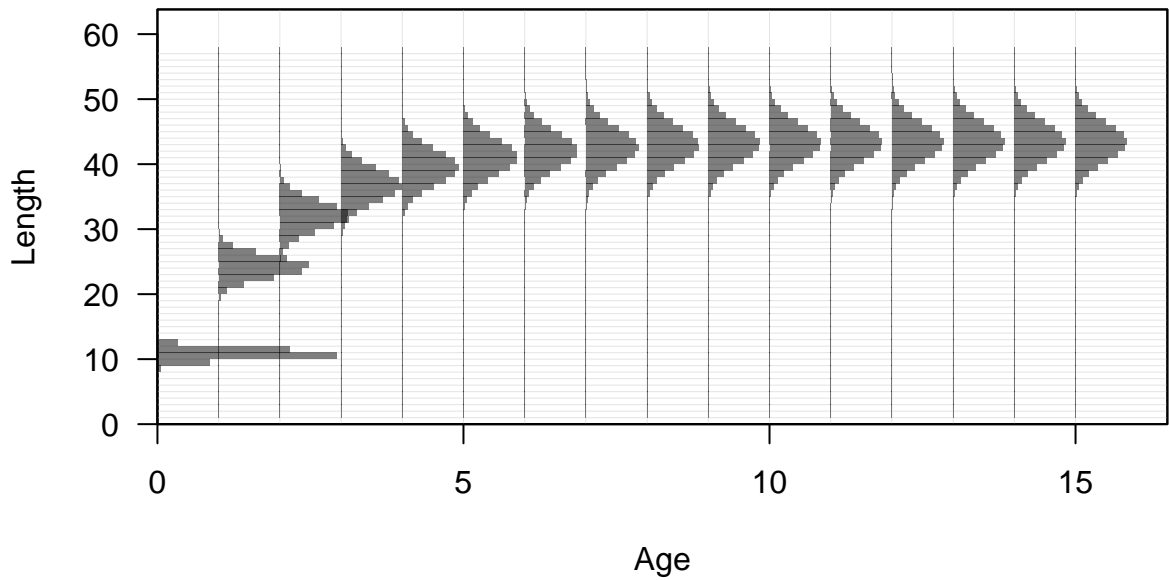


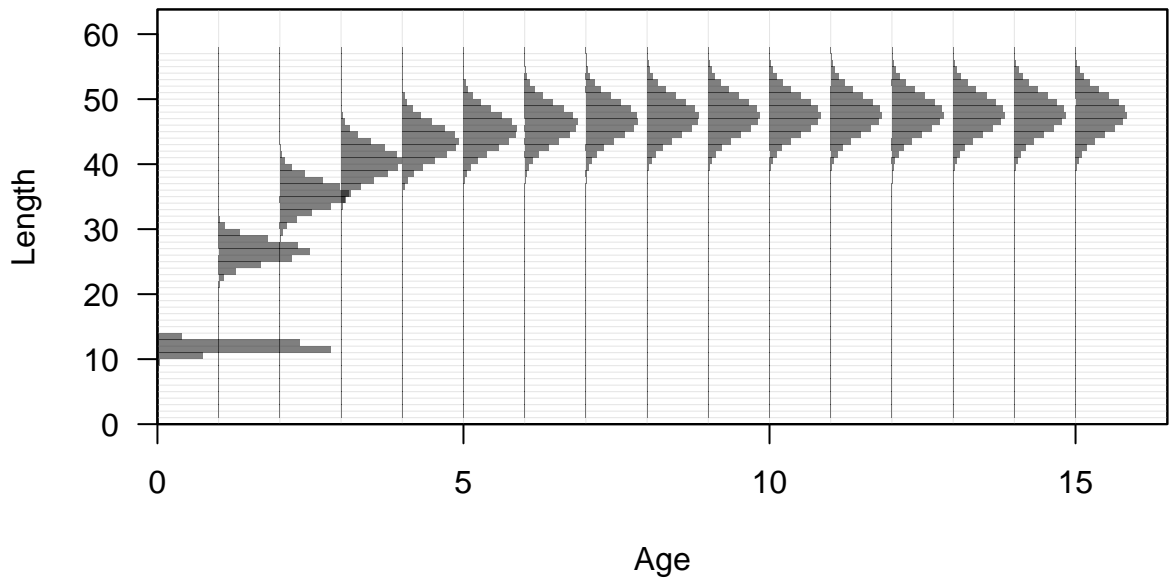


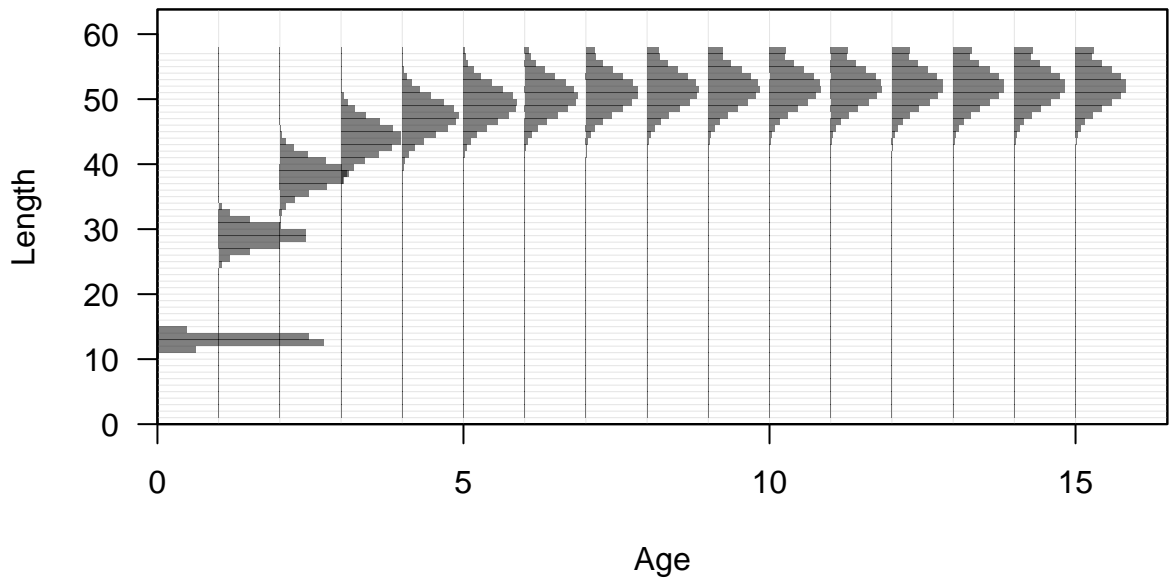


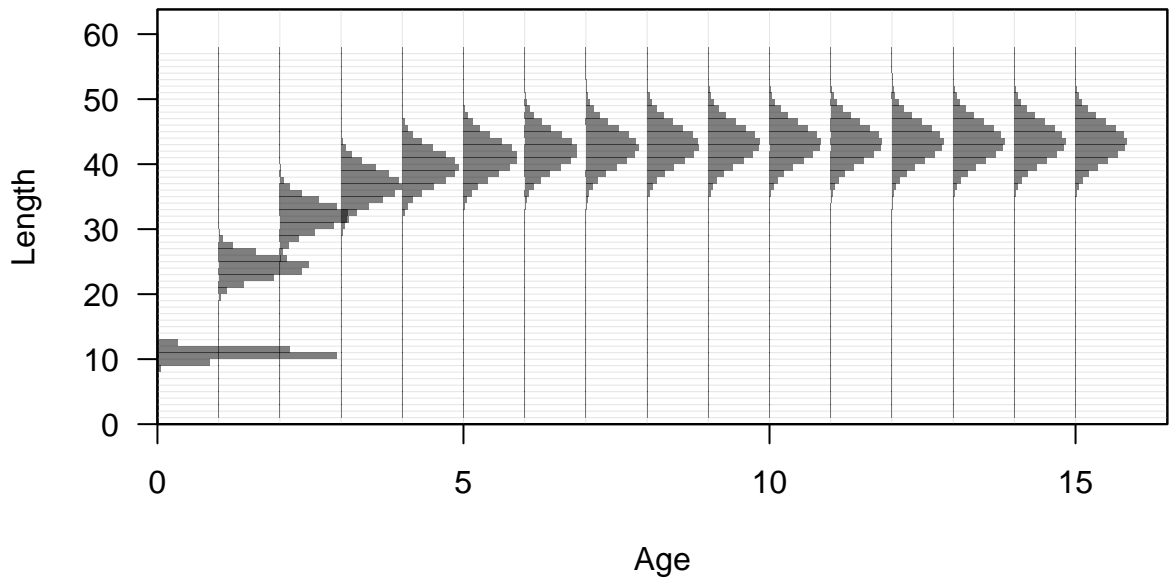


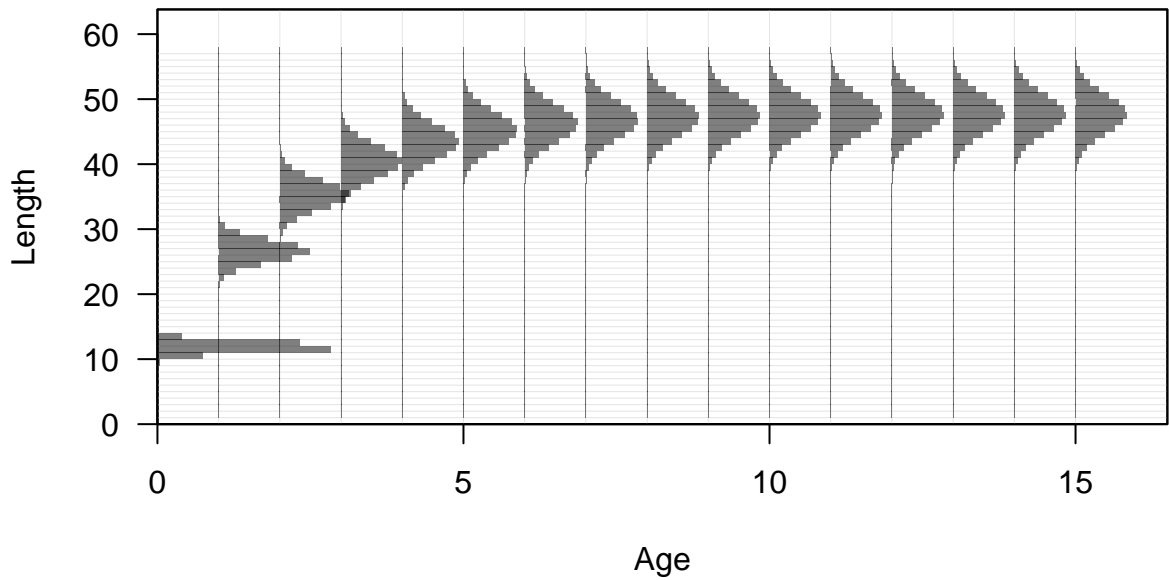


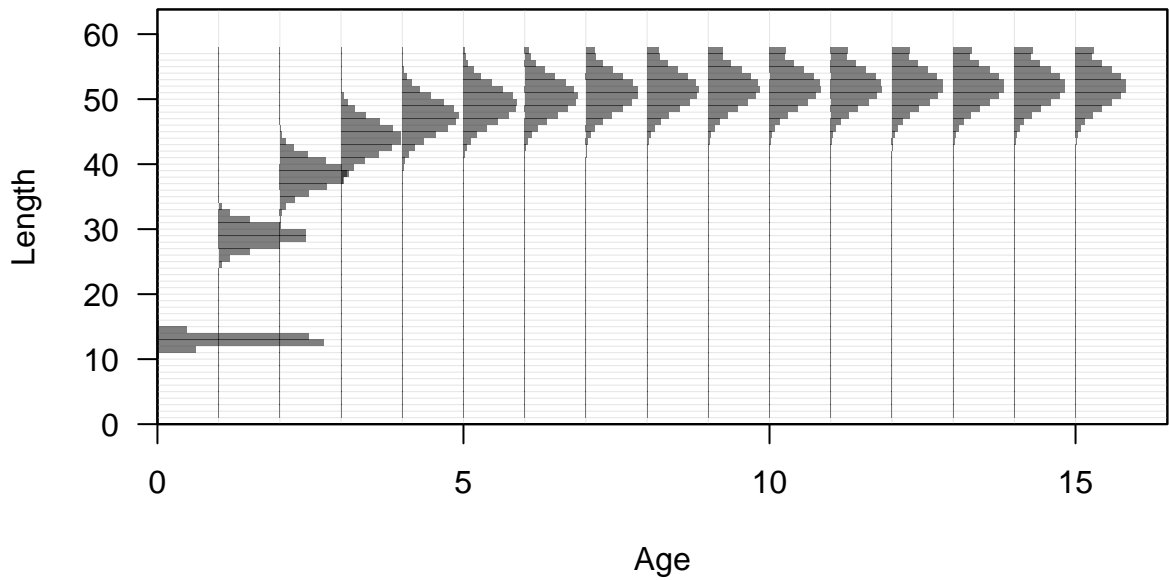




















Fecundity



Fecundity



Spawning output

3

2

1

0

0

10

20

30

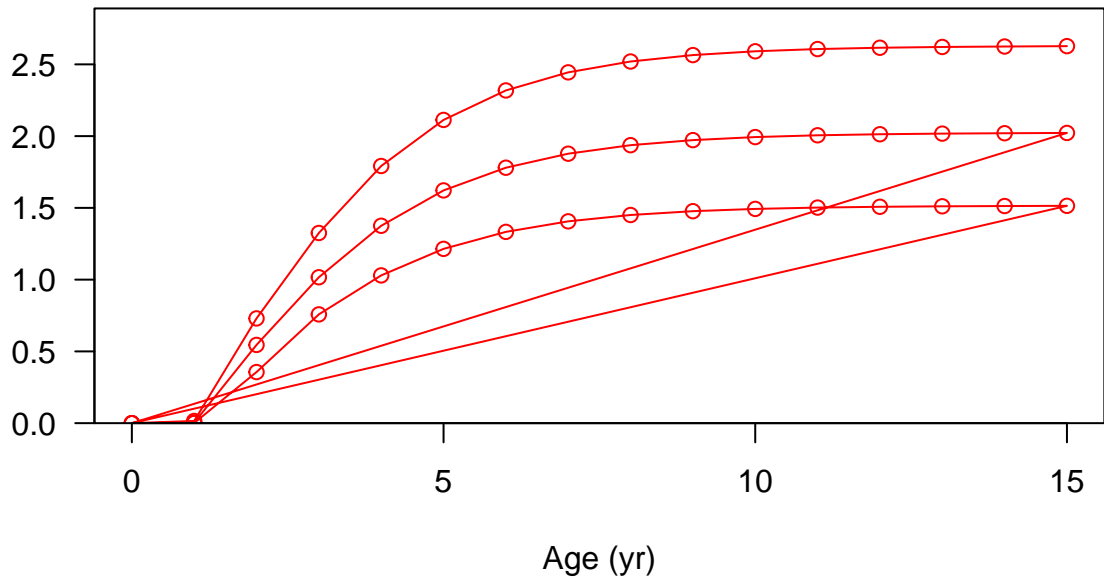
40

50

Length (cm)



Spawning output



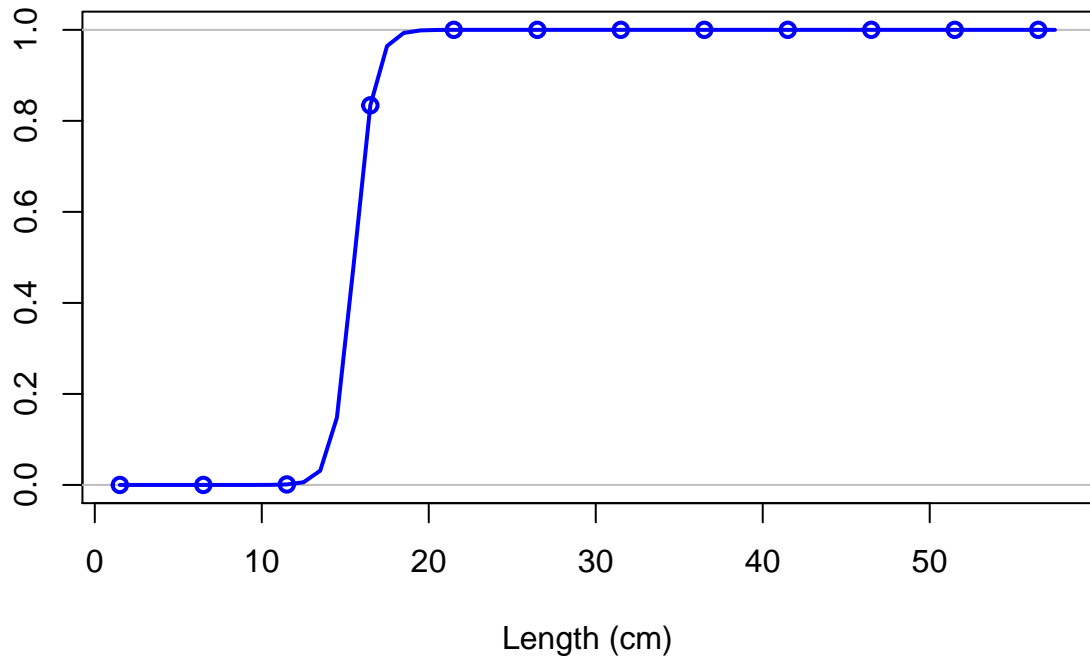
Hermaphroditism transition rate



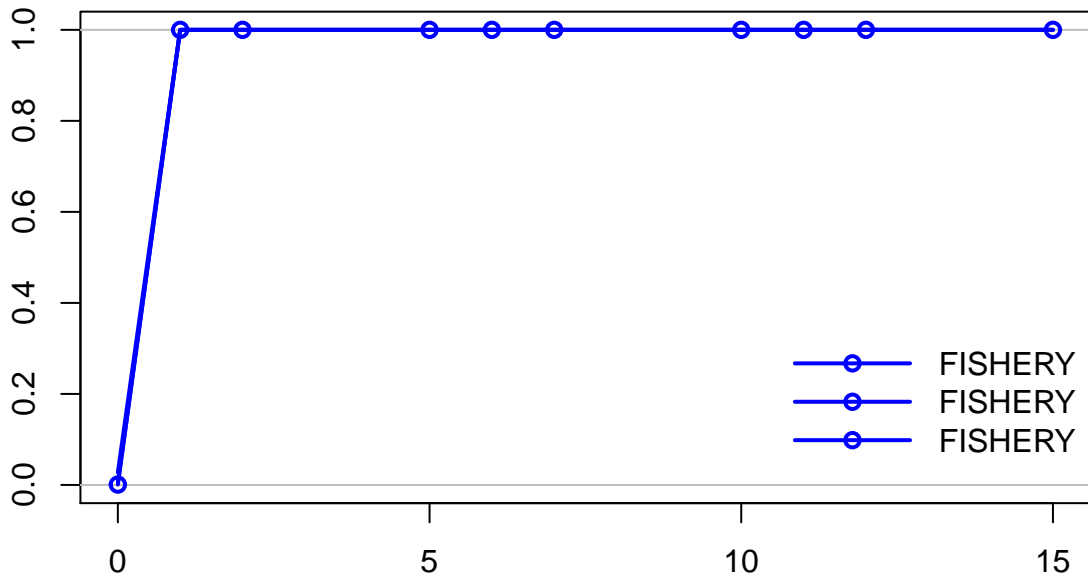
Fraction females by age at equilibrium



Selectivity

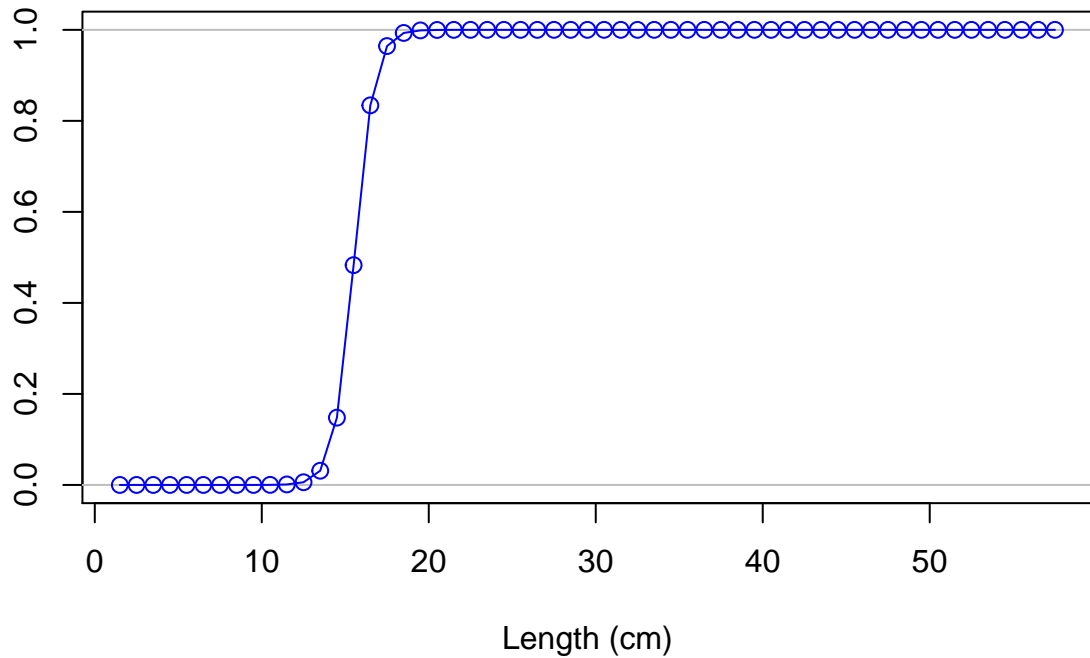


Selectivity

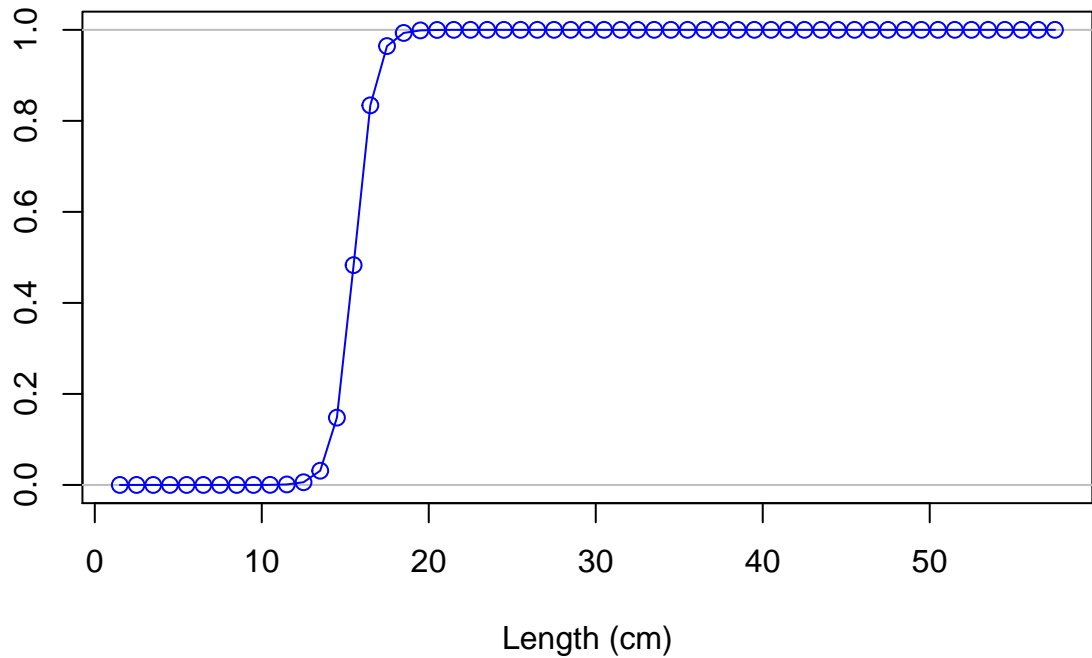


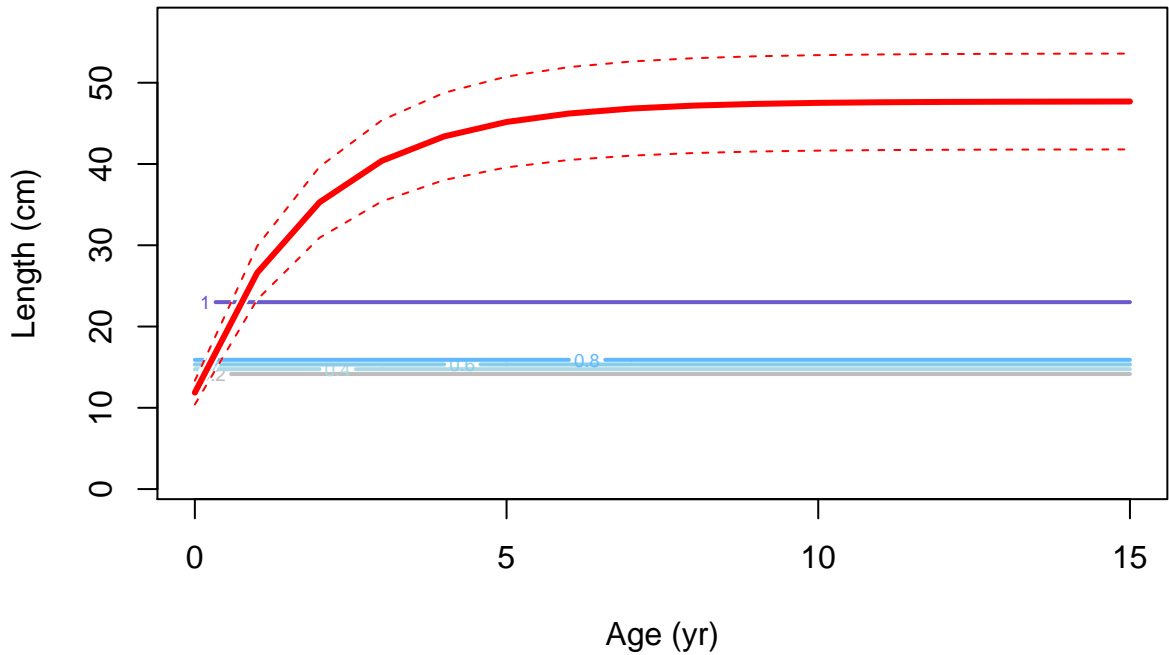
Age (yr)

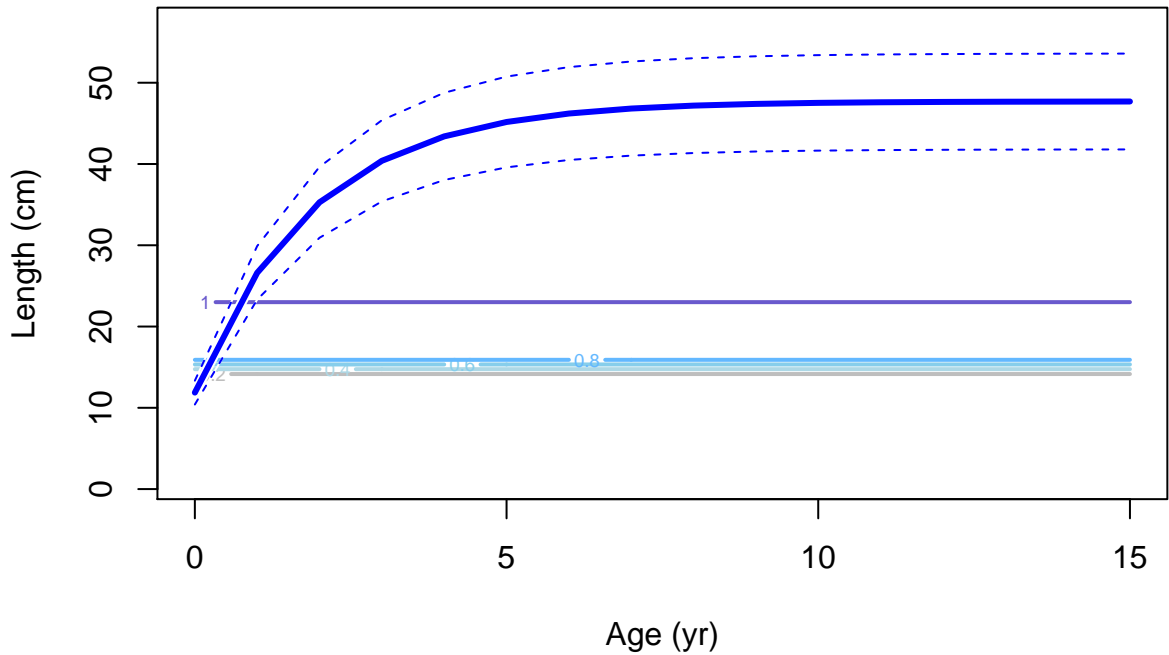
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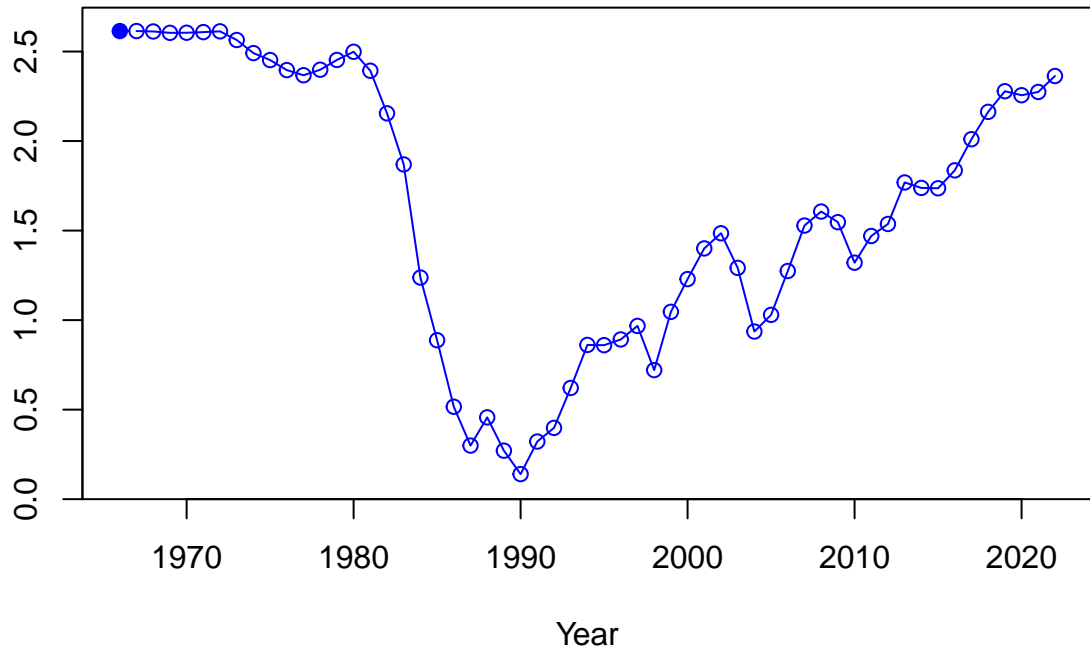
Selectivity



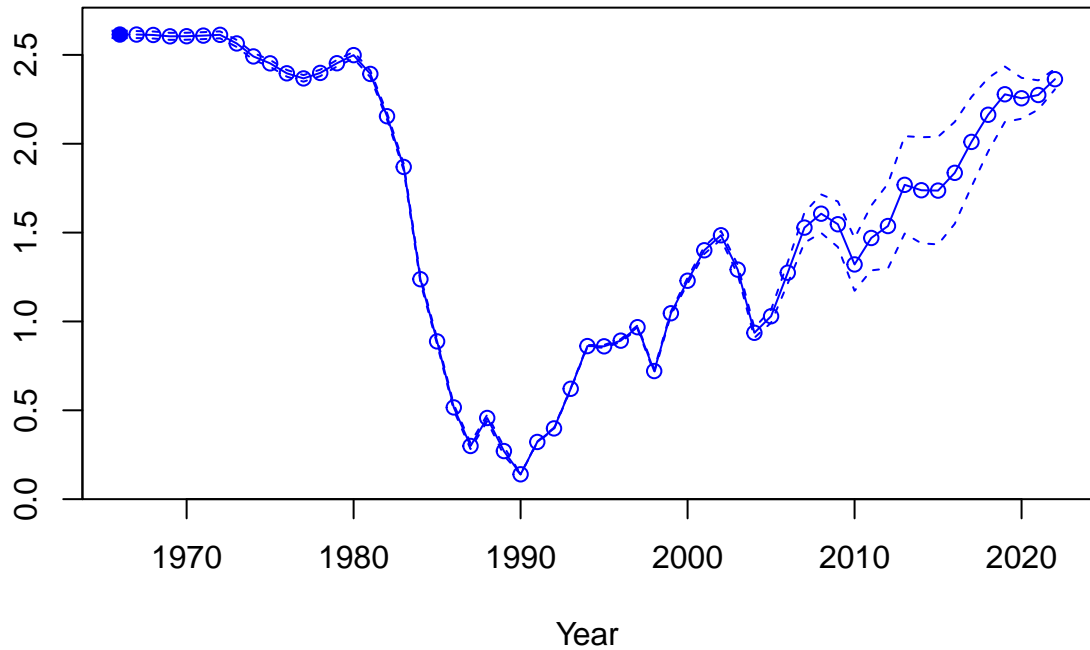




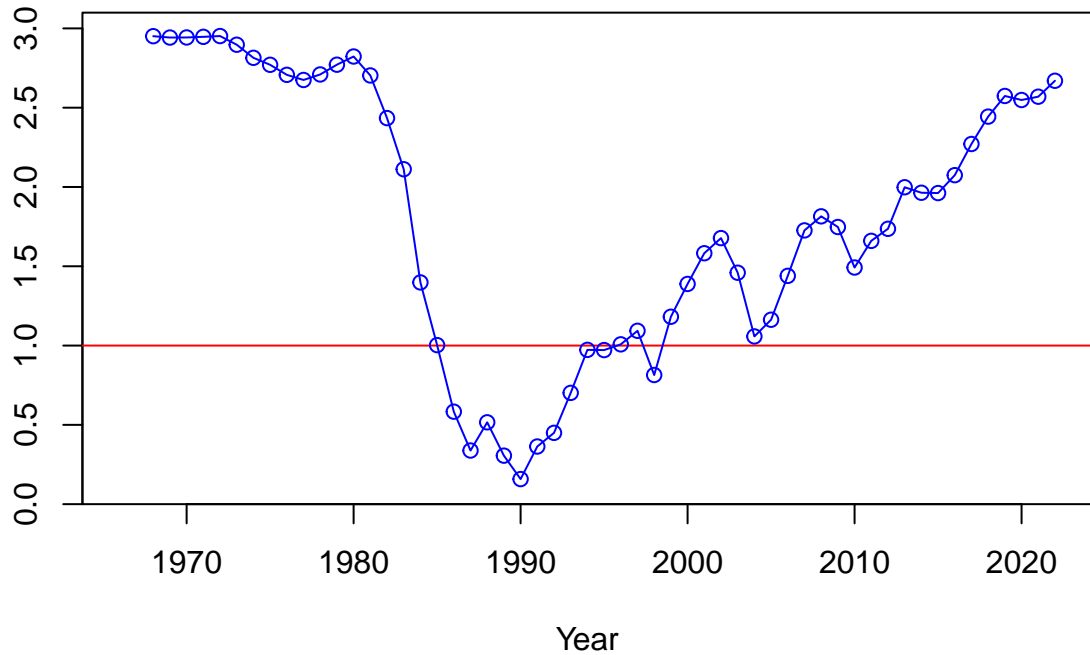
Spawning biomass (mt)



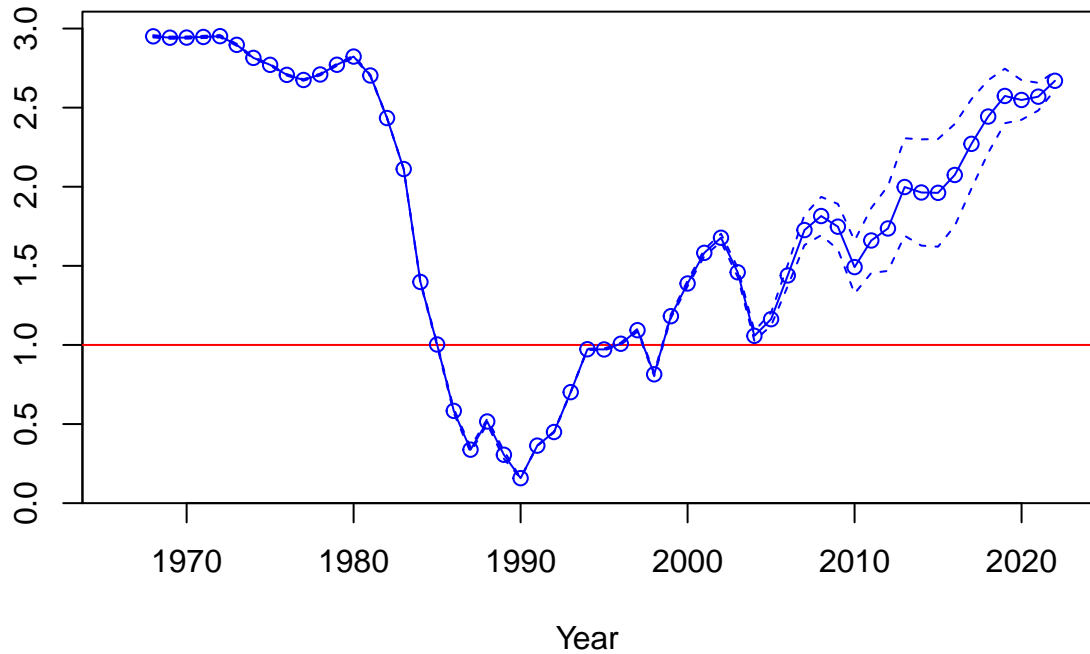
Spawning biomass (mt)

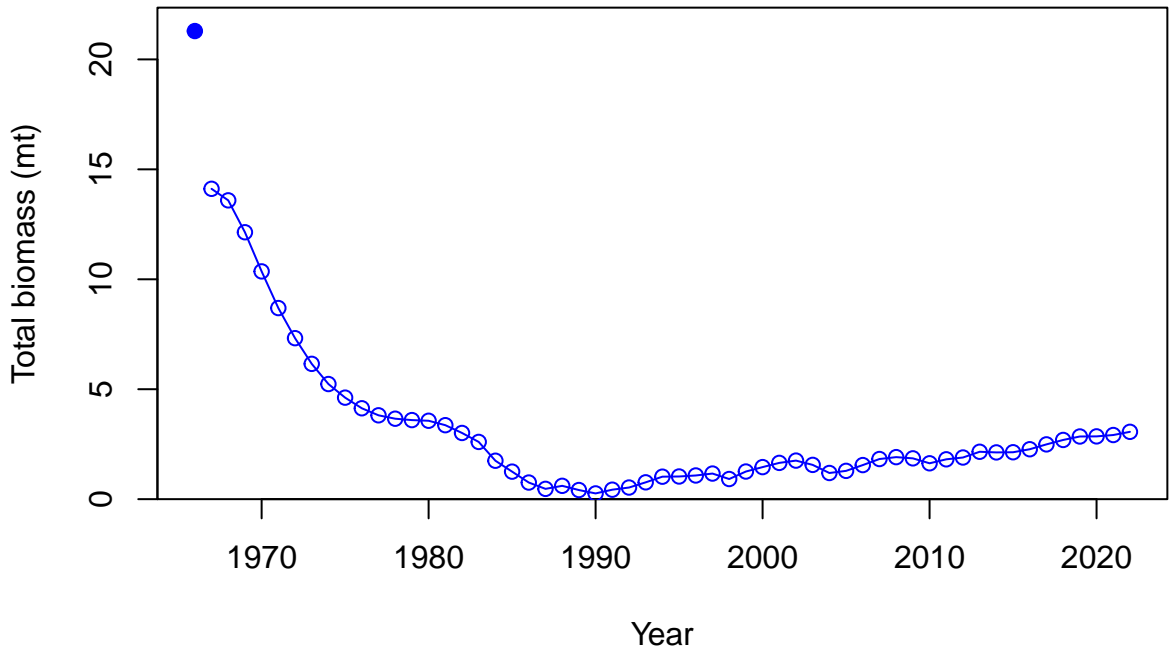


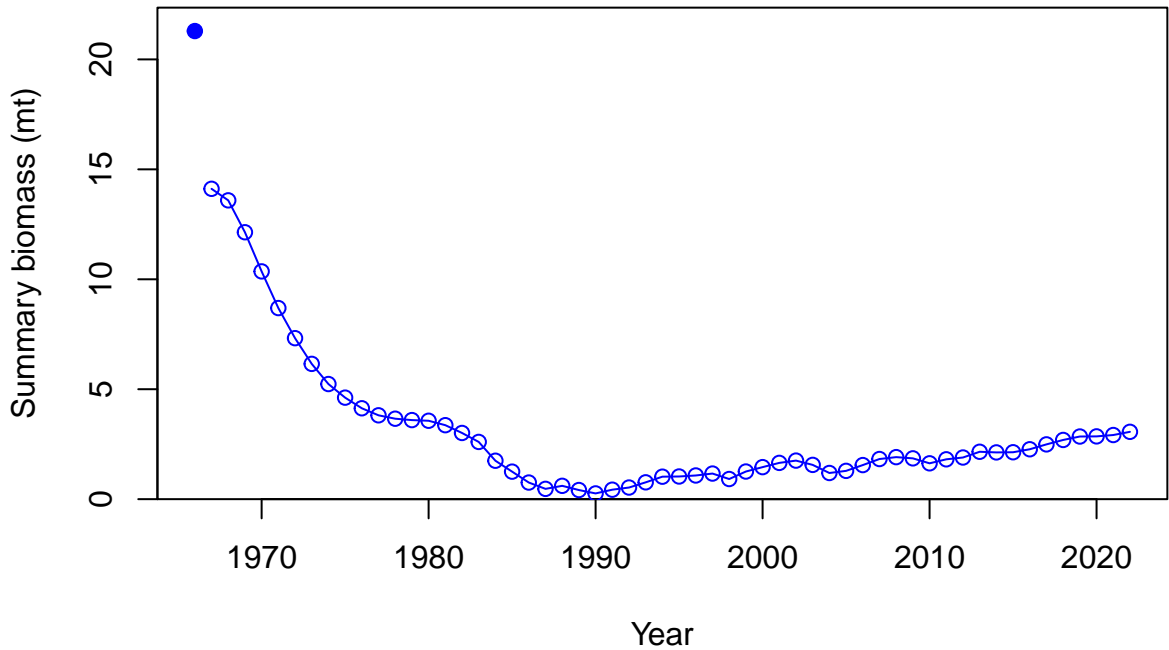
Relative spawning biomass: B/B_{MSY}



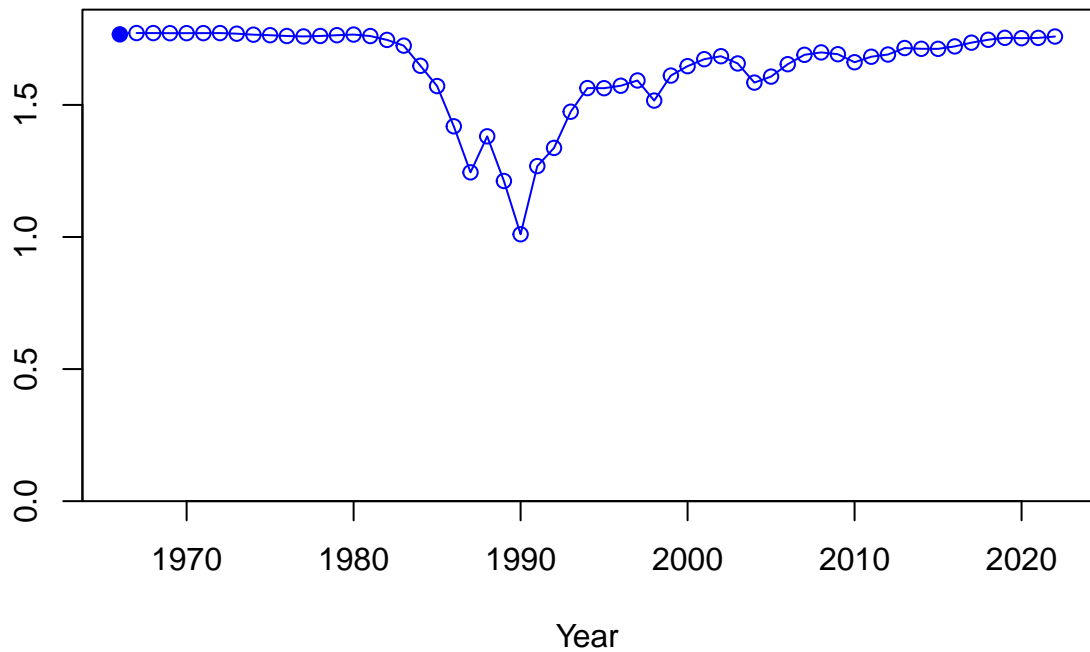
Relative spawning biomass: B/B_{MSY}



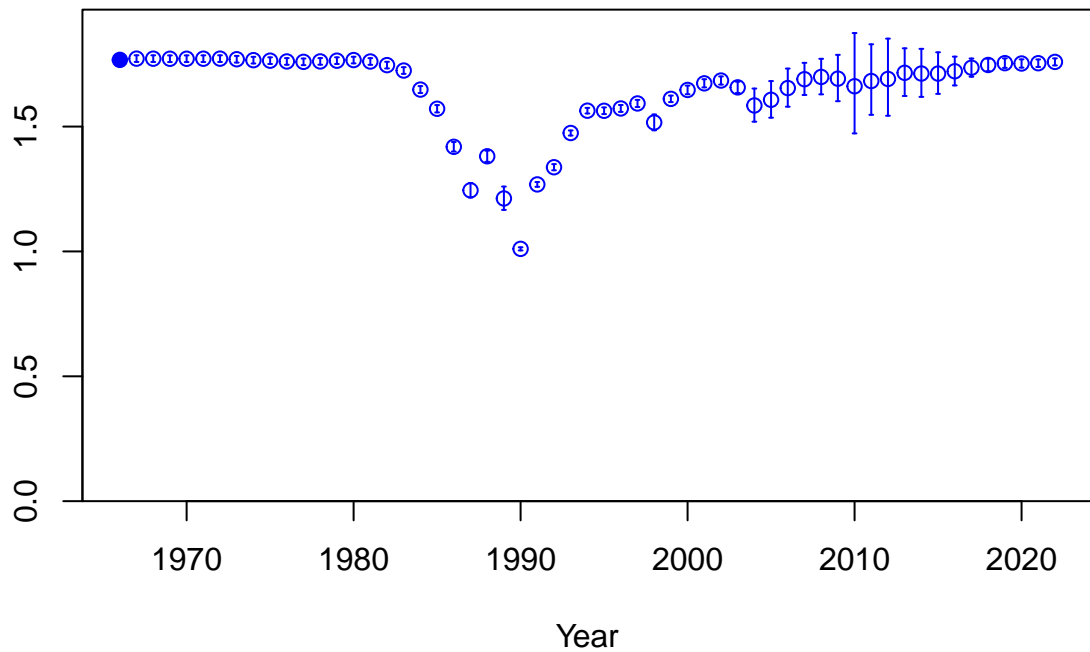




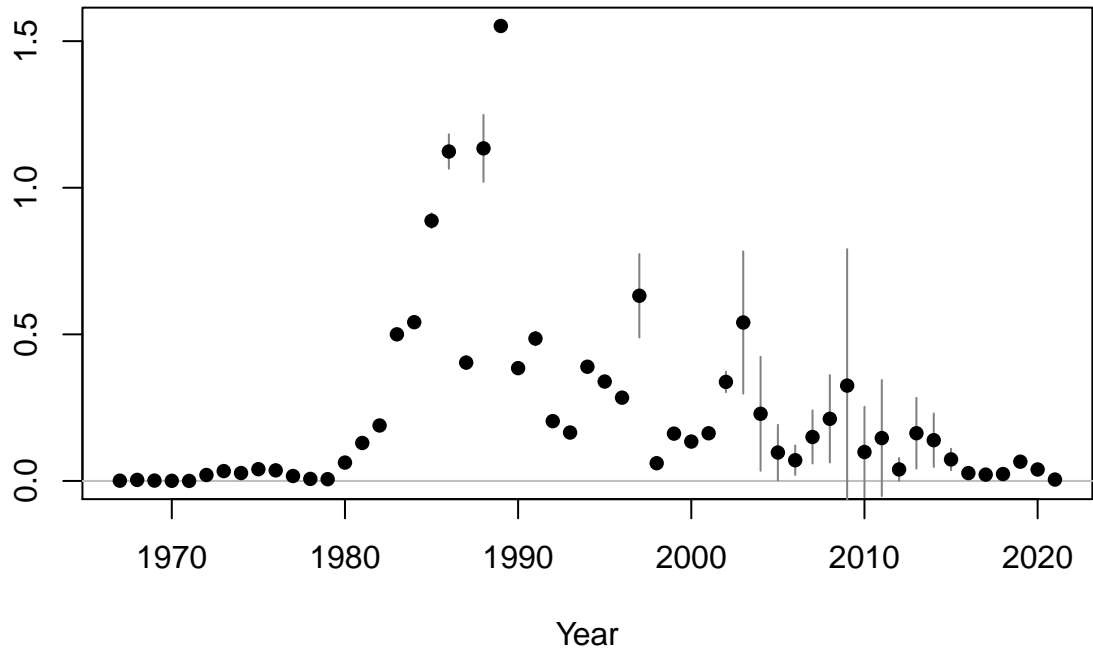
Age-0 recruits (1,000s)

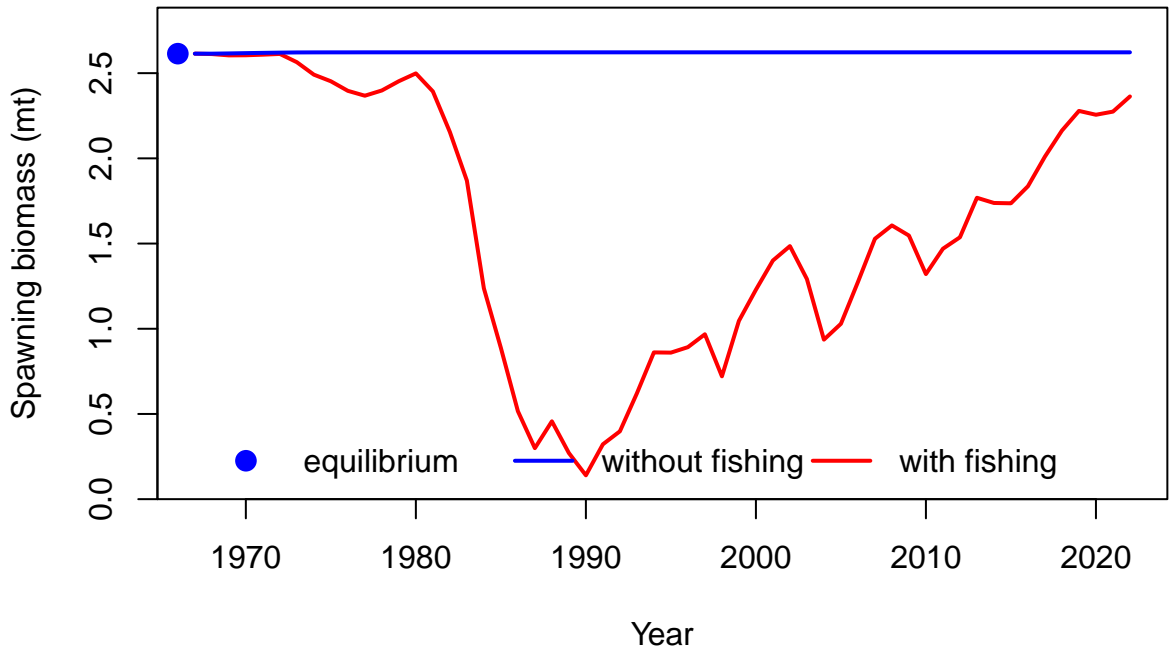


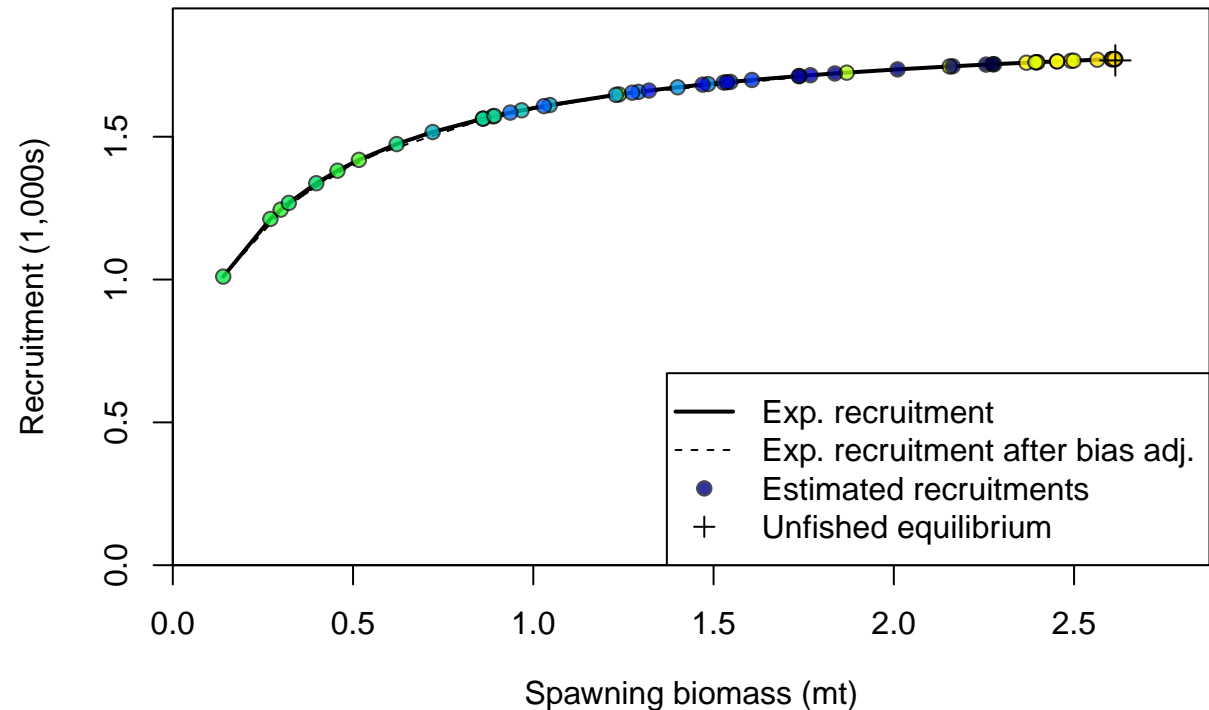
Age-0 recruits (1,000s)

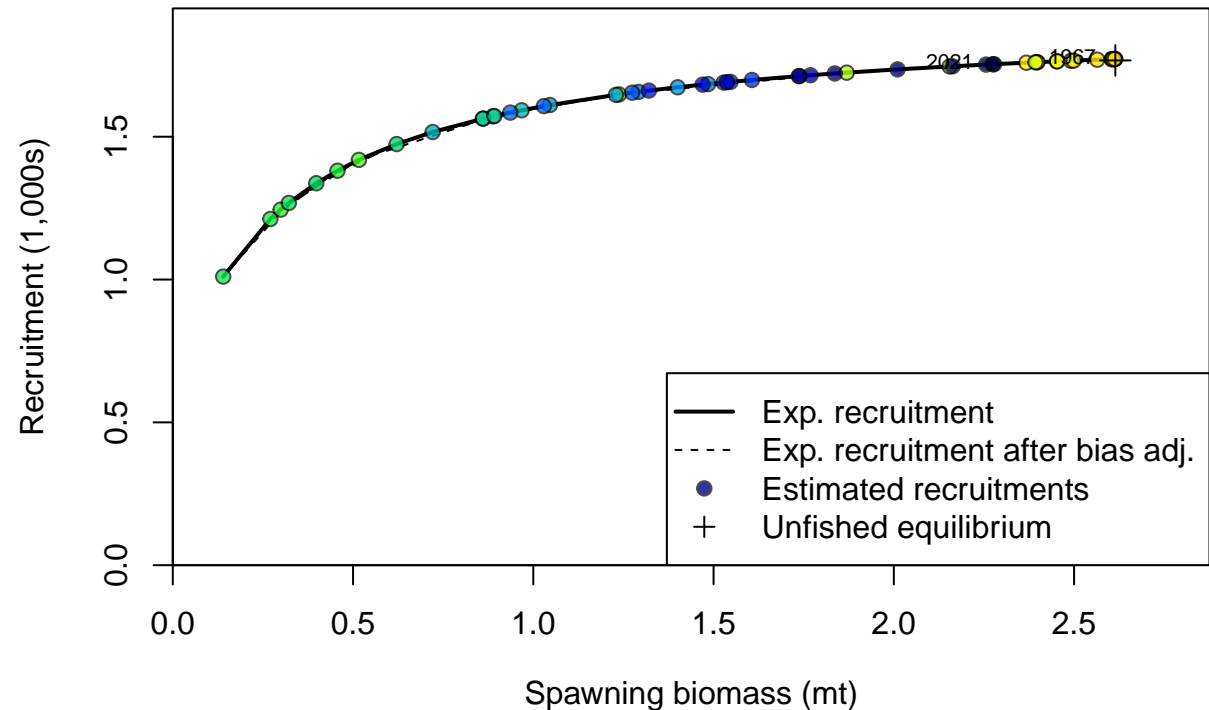


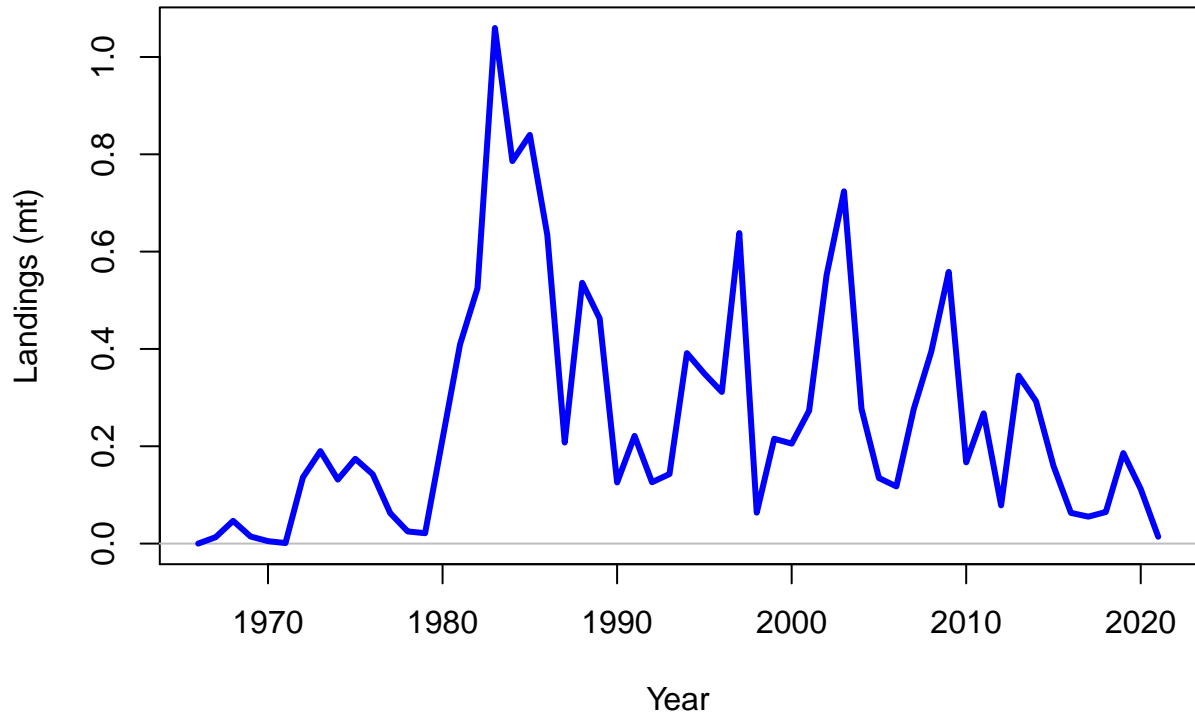
Summary Fishing Mortality

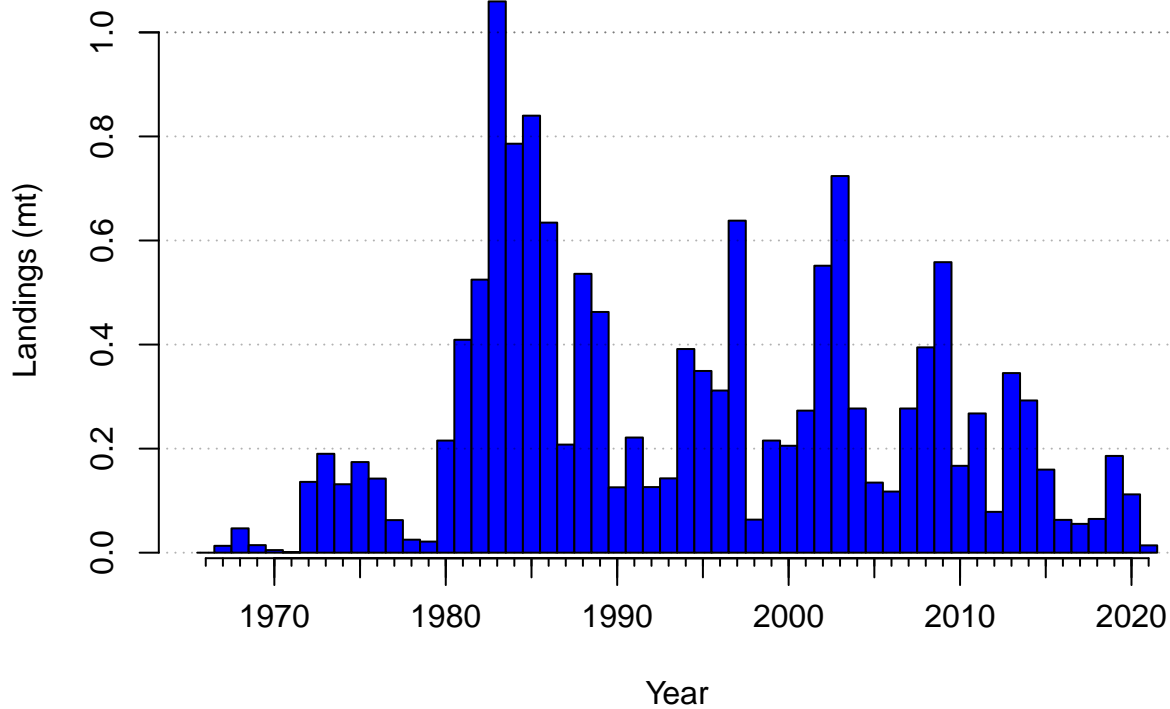


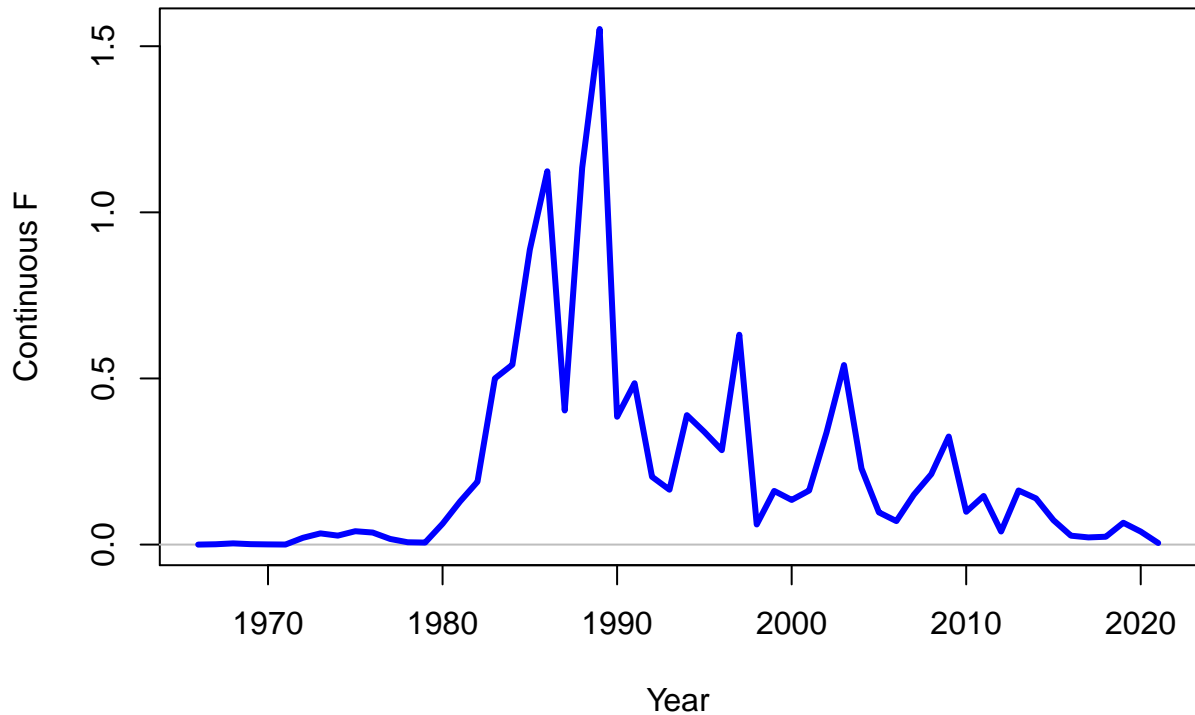




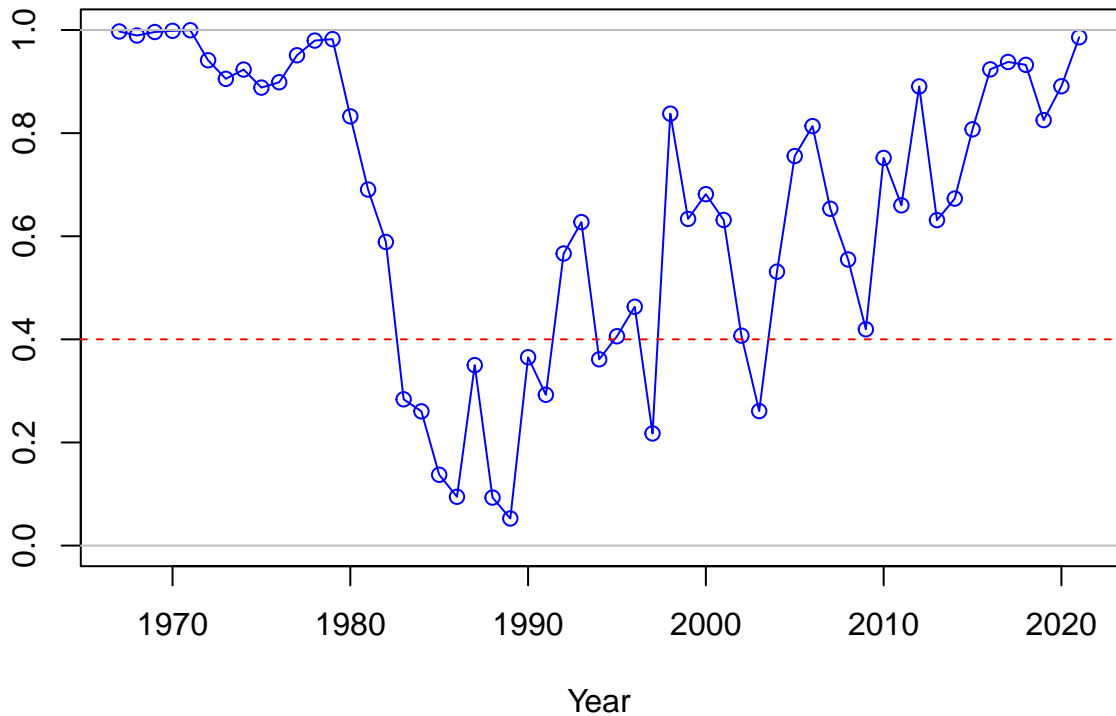




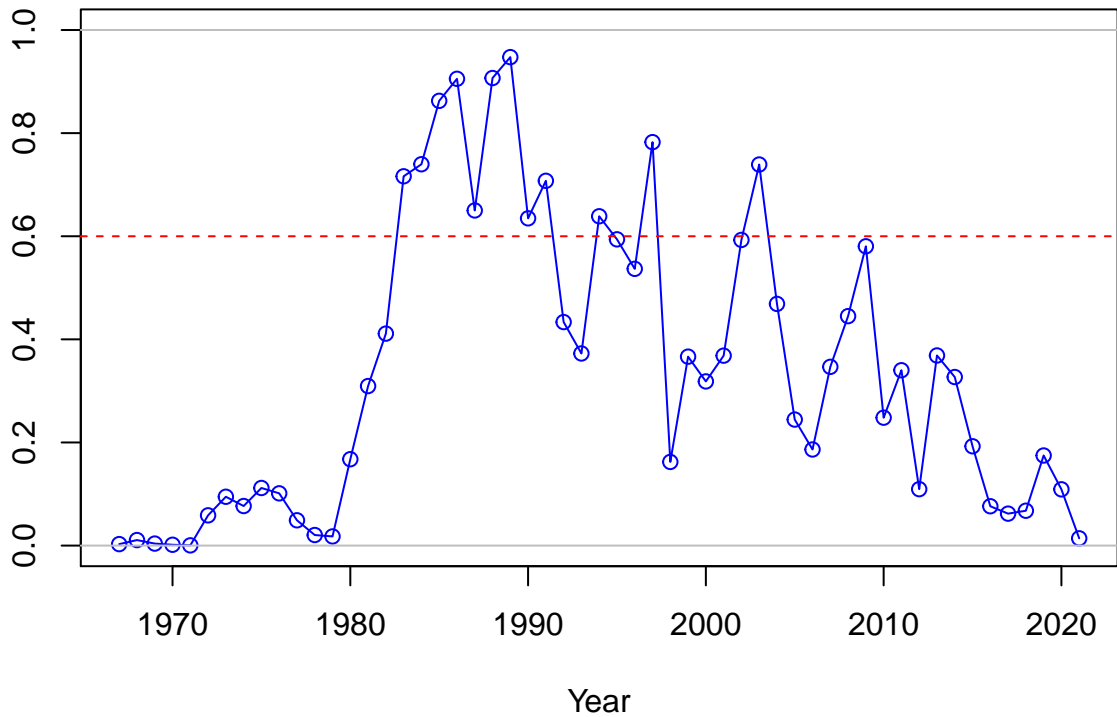




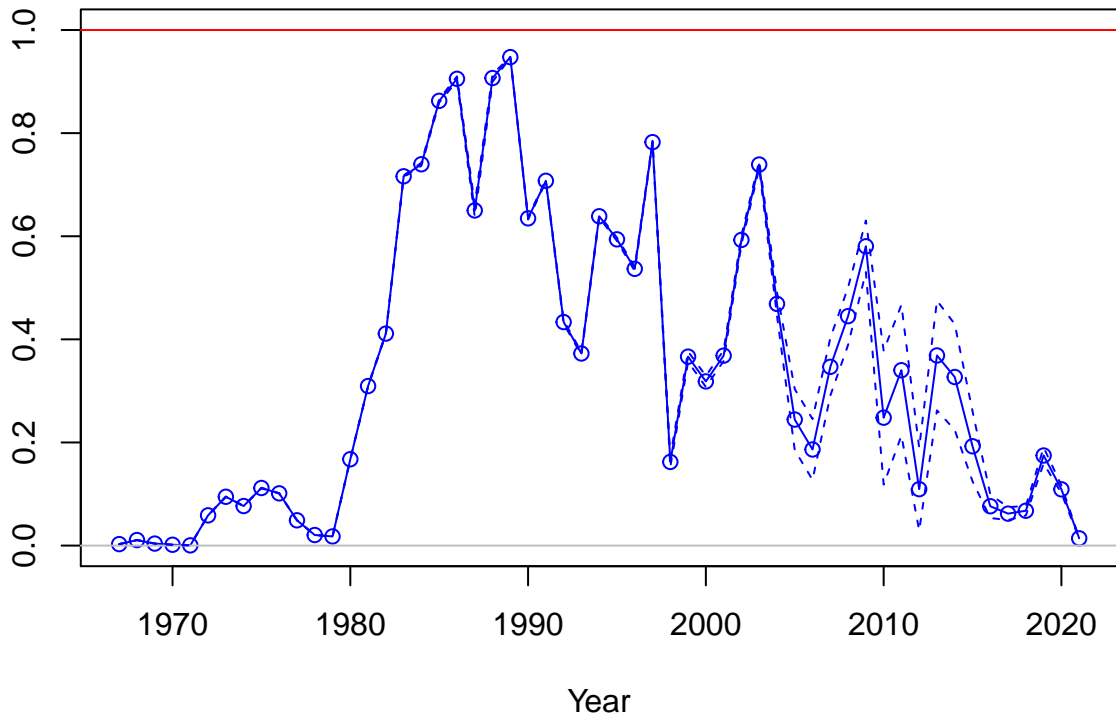
SPR



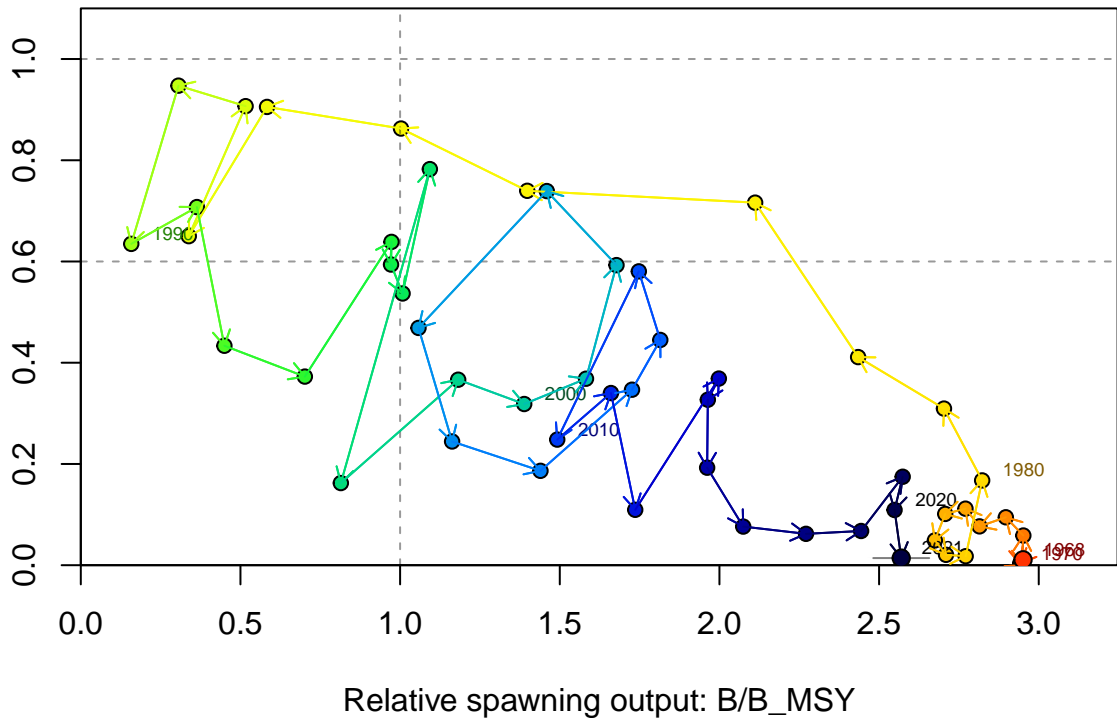
1-SPR



Fishing intensity: 1-SPR



Fishing intensity: 1-SPR

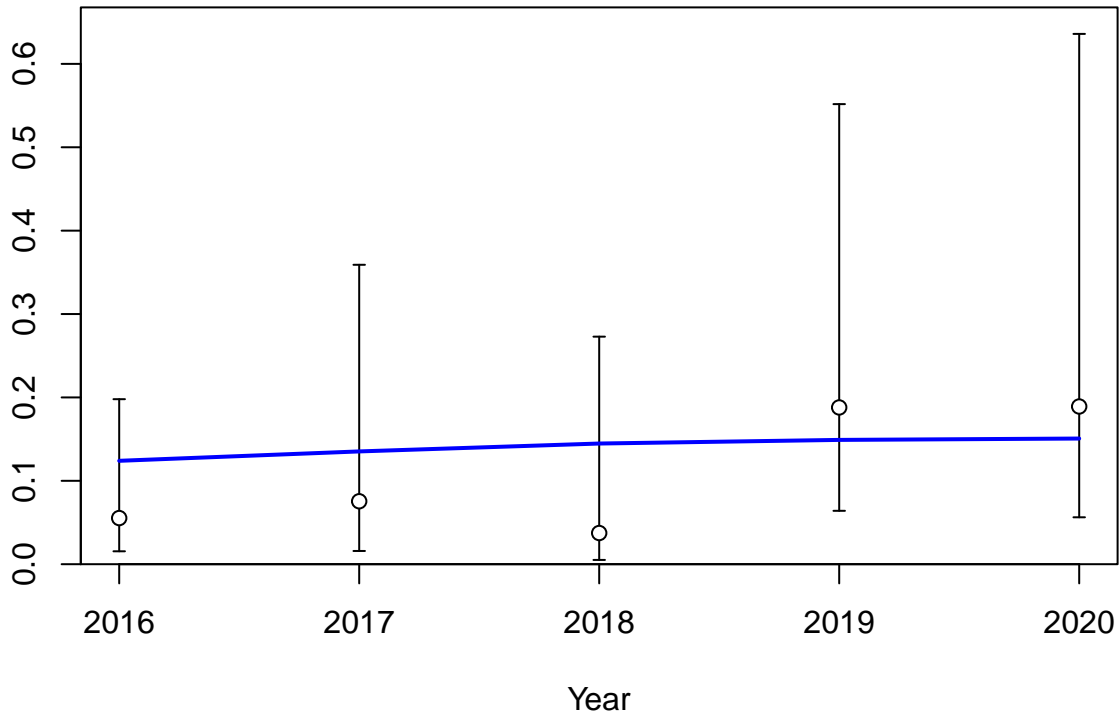


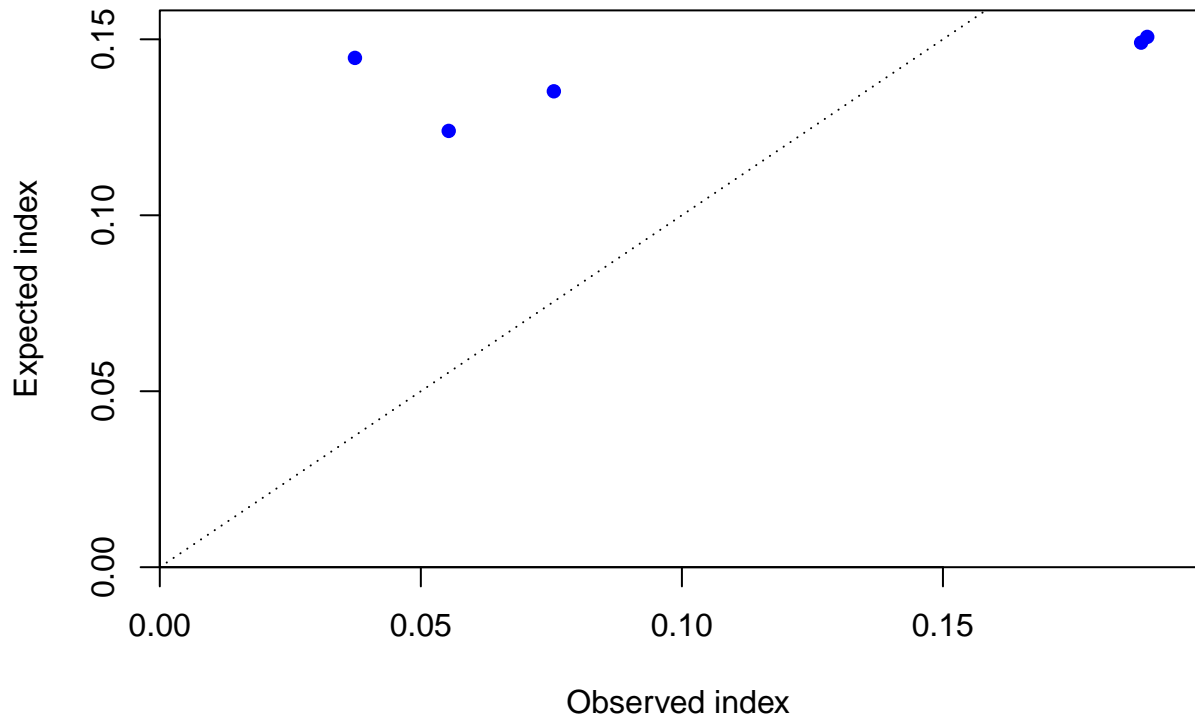
Index



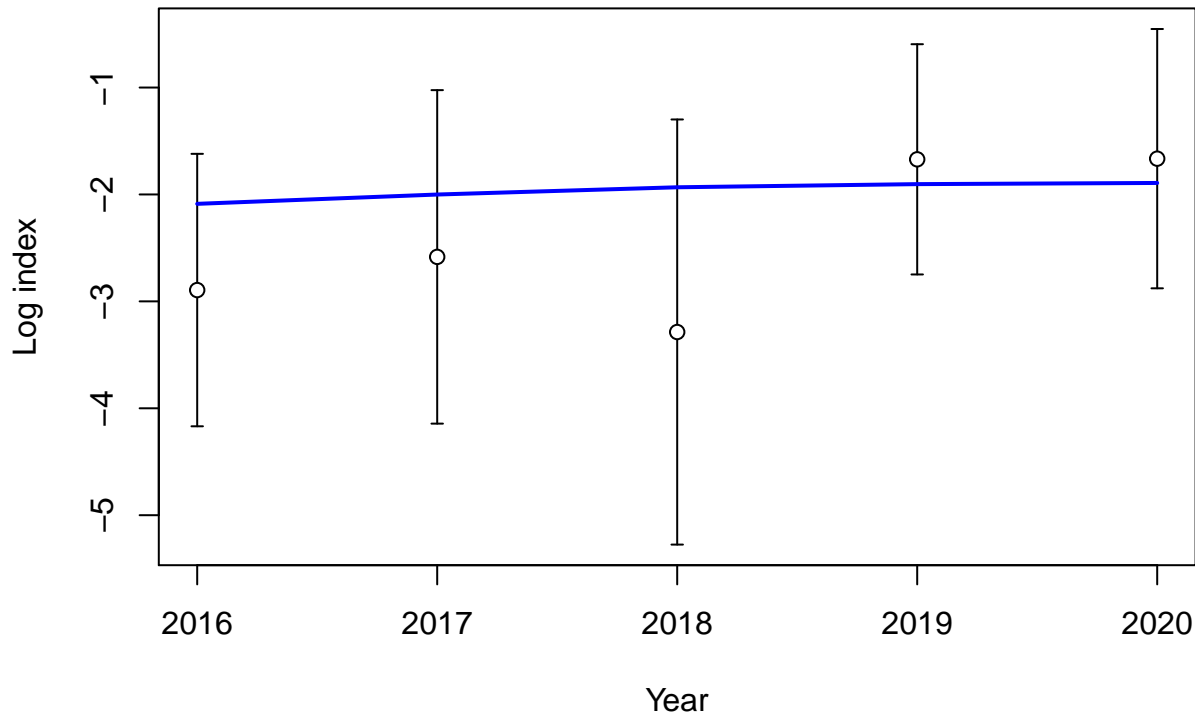
Year

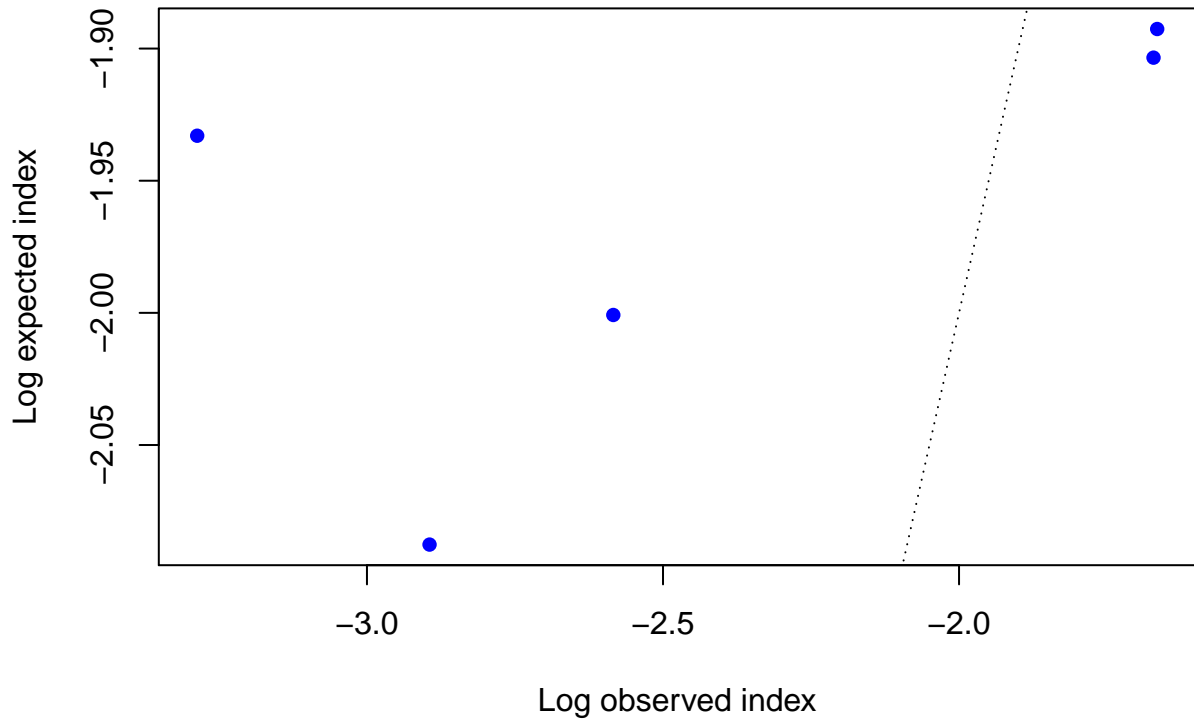
Index











Residual

1.0
0.5
0.0
-0.5
-1.0

2016

2017

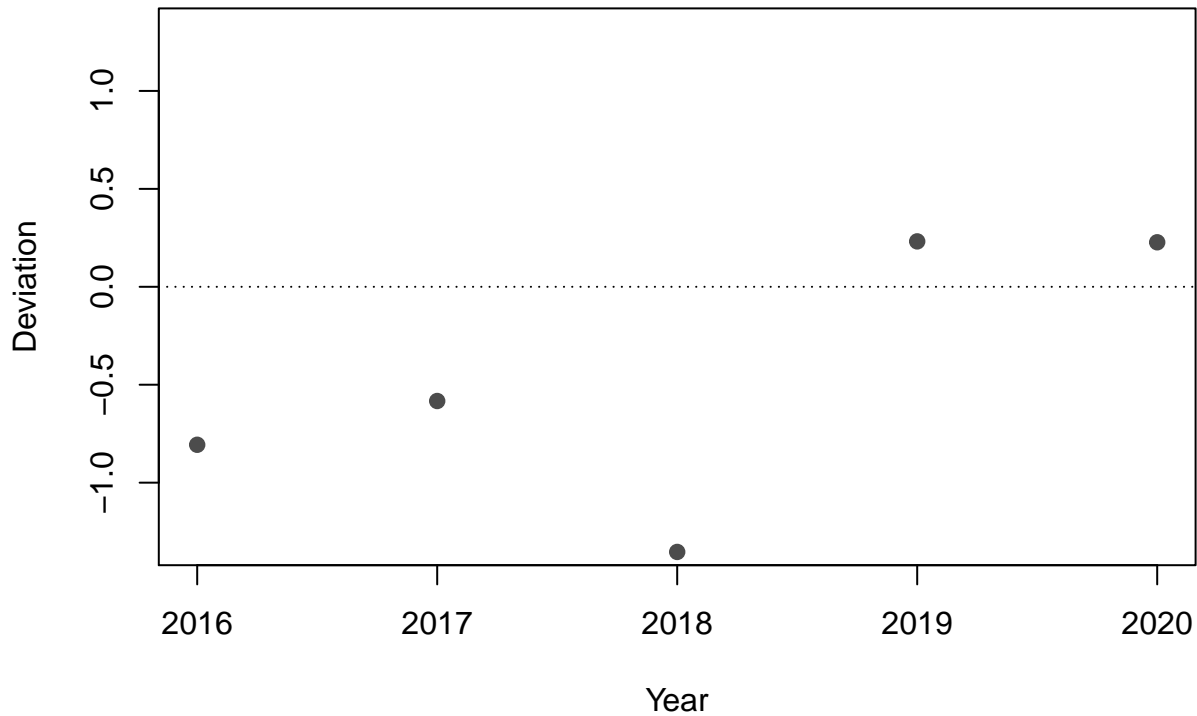
2018

2019

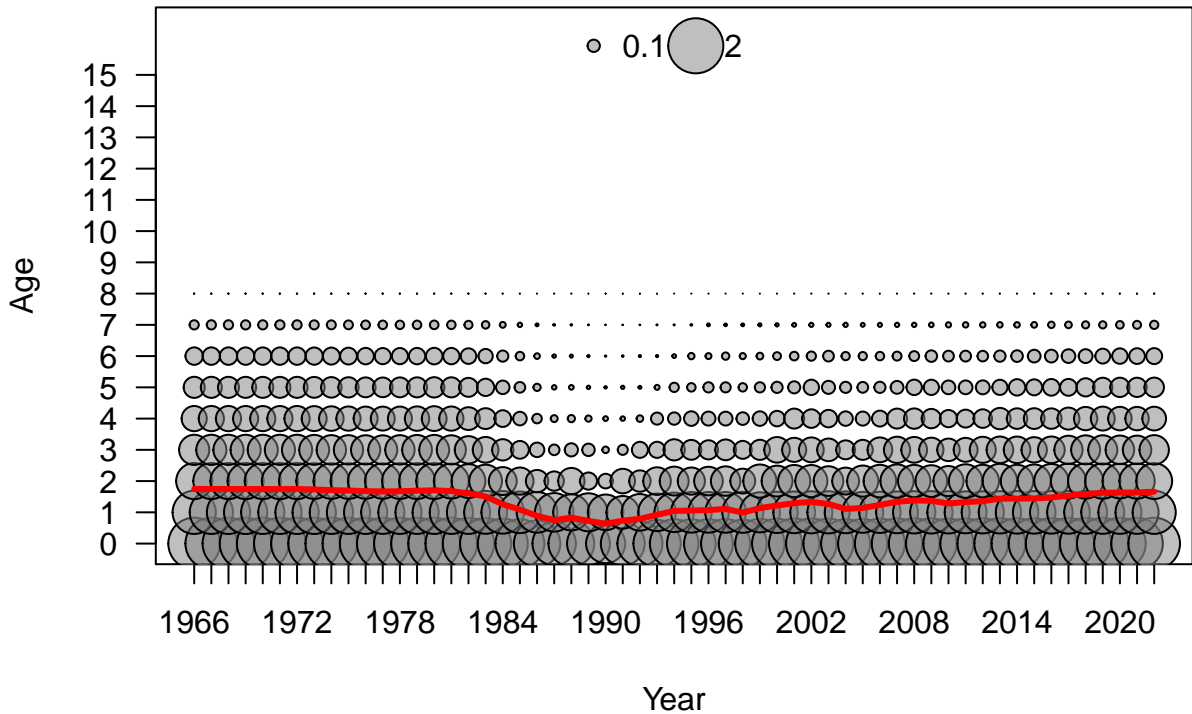
2020

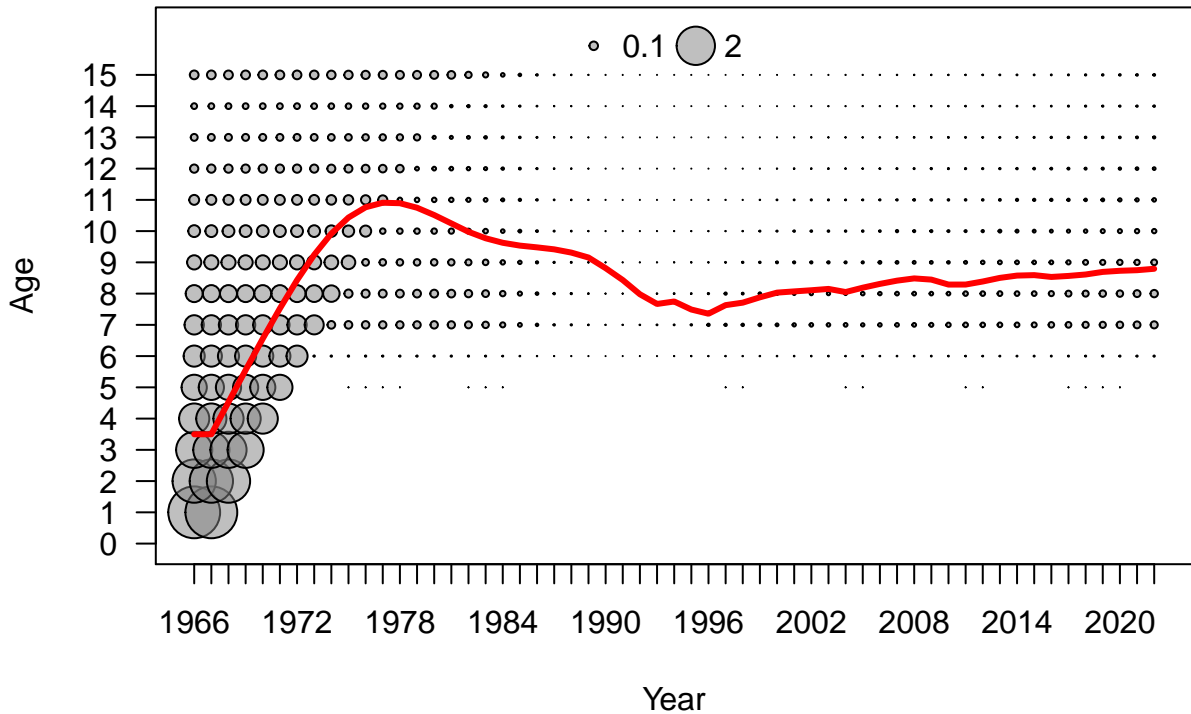
Year

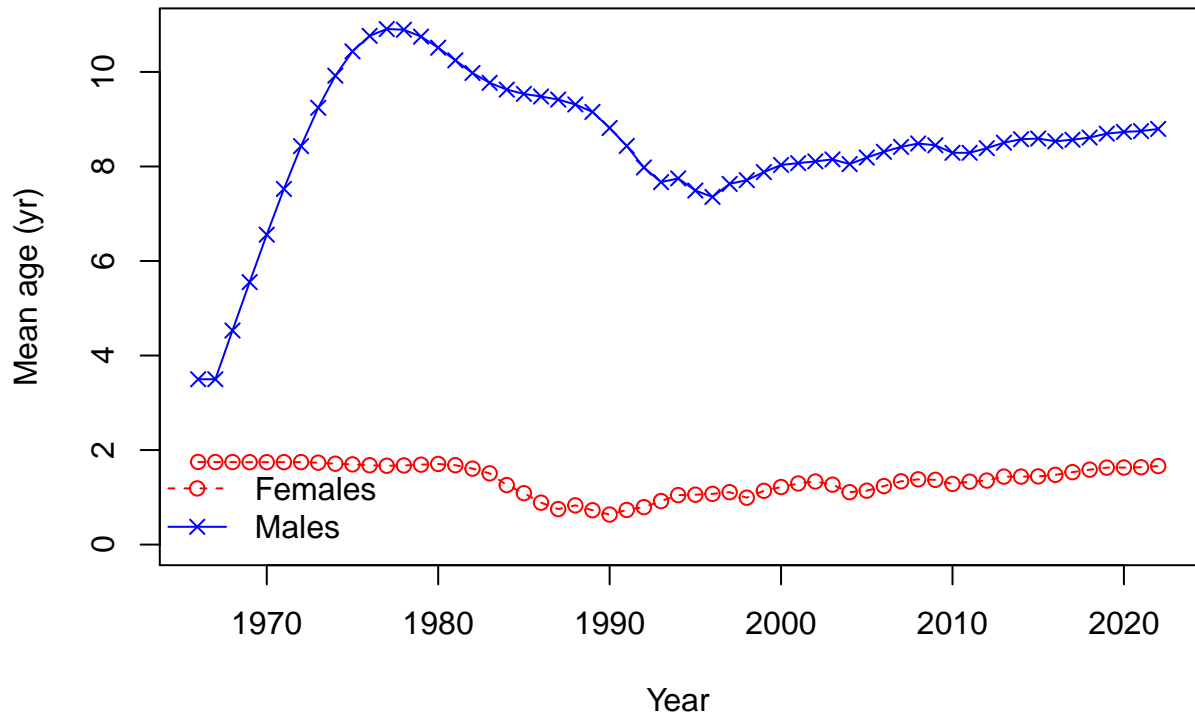




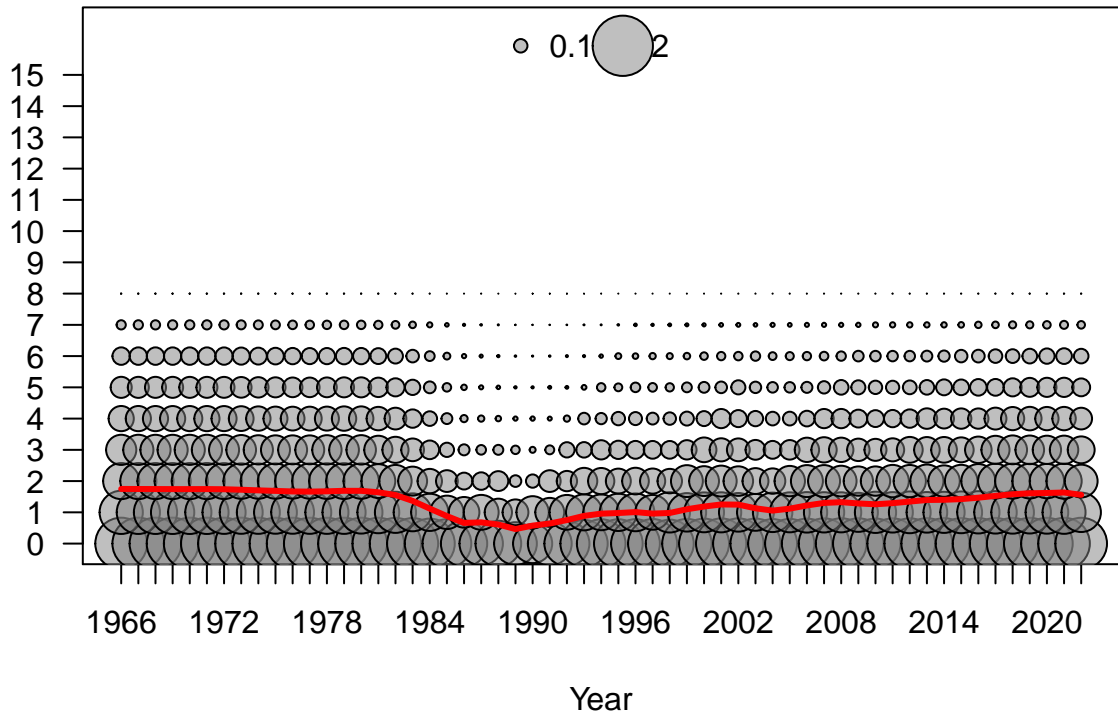


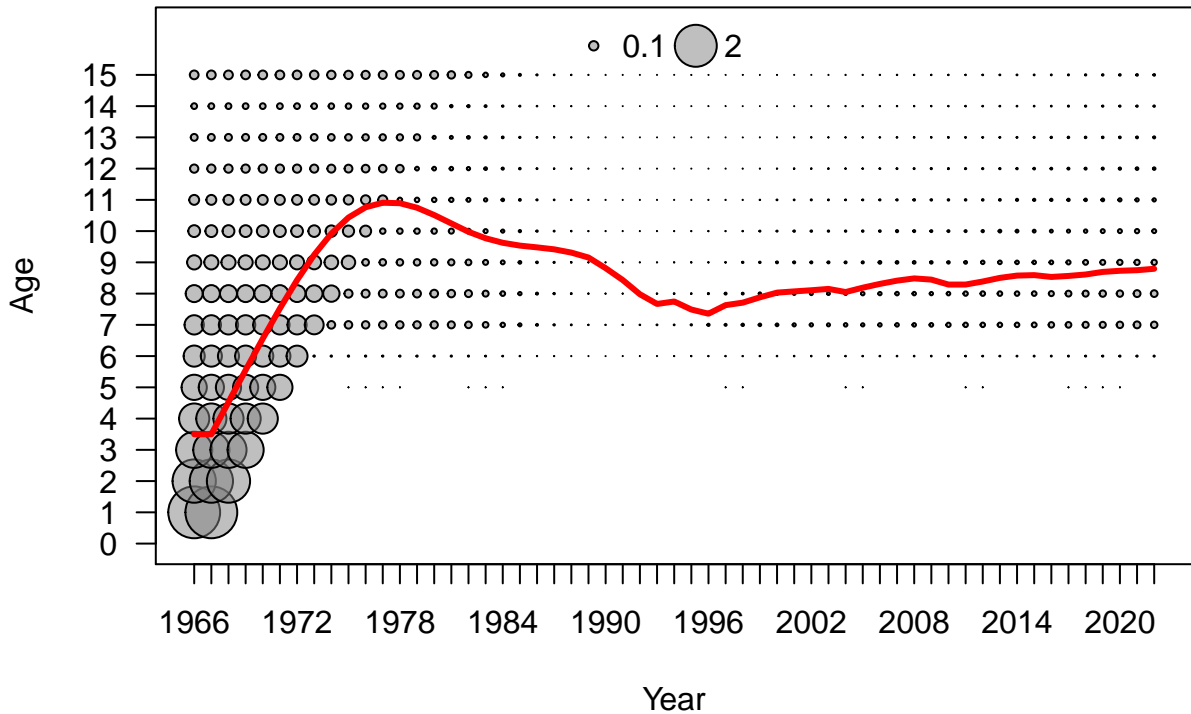


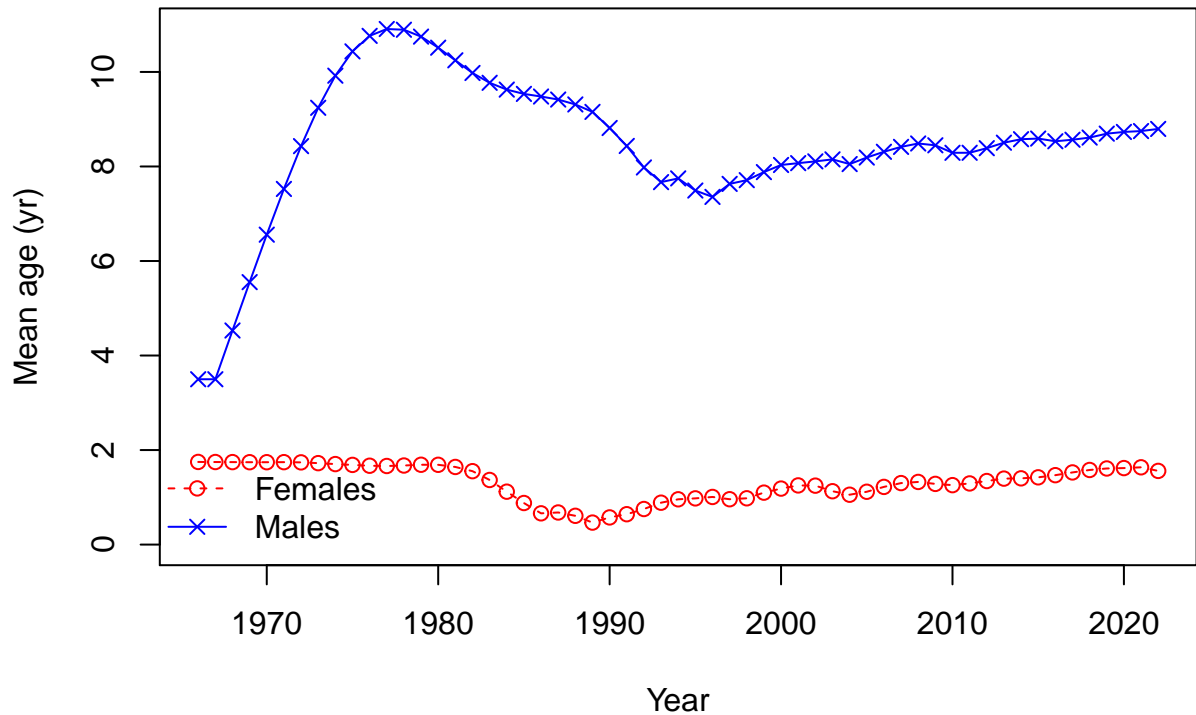




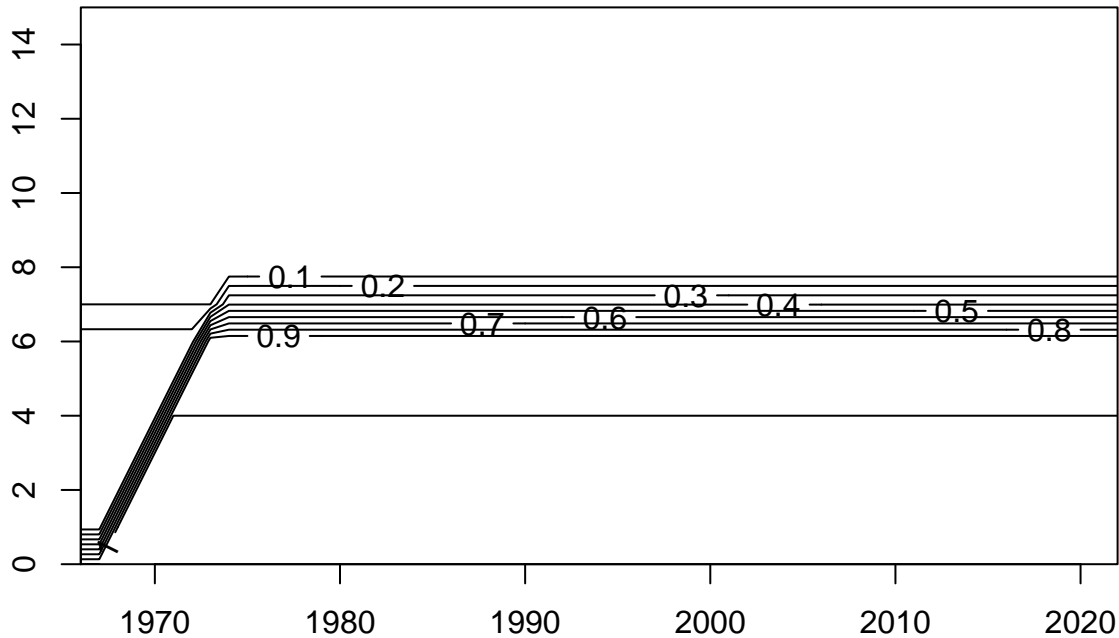
Age



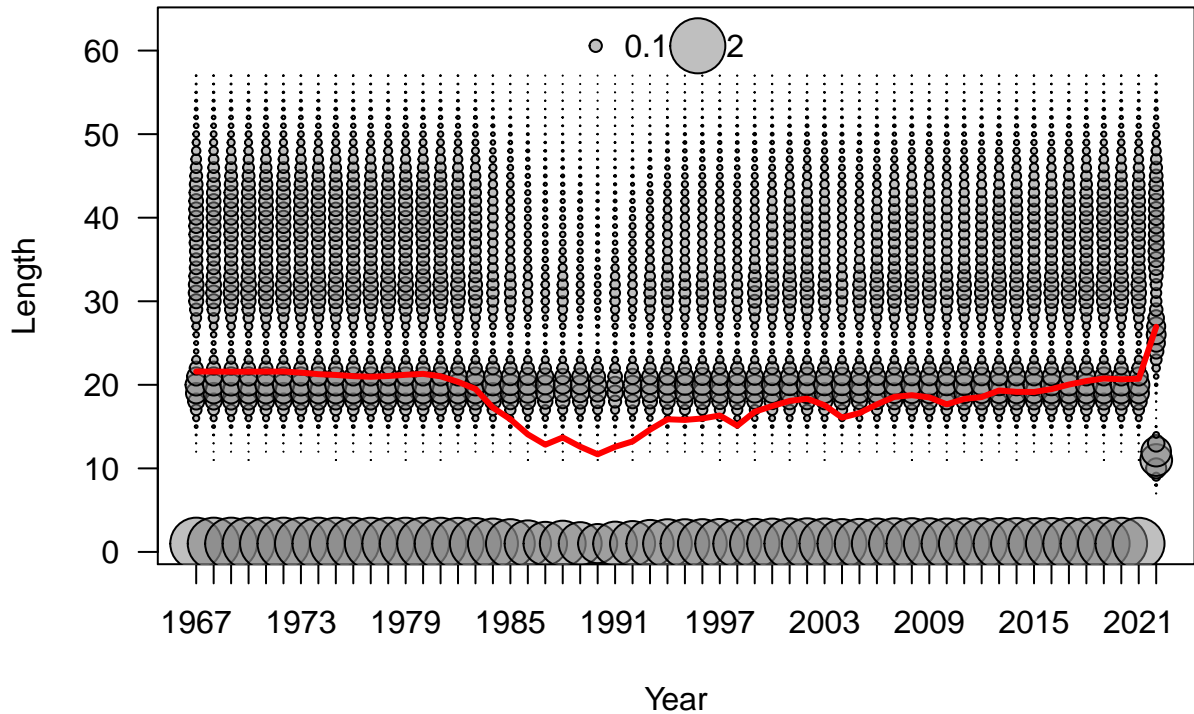


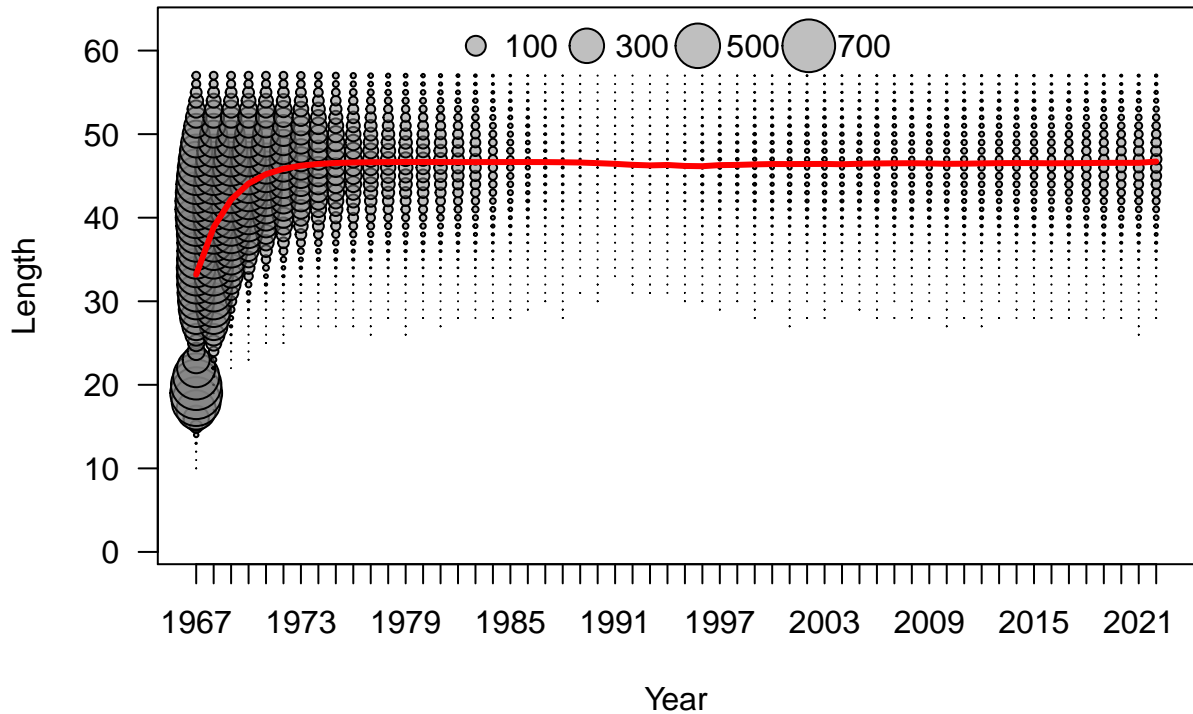


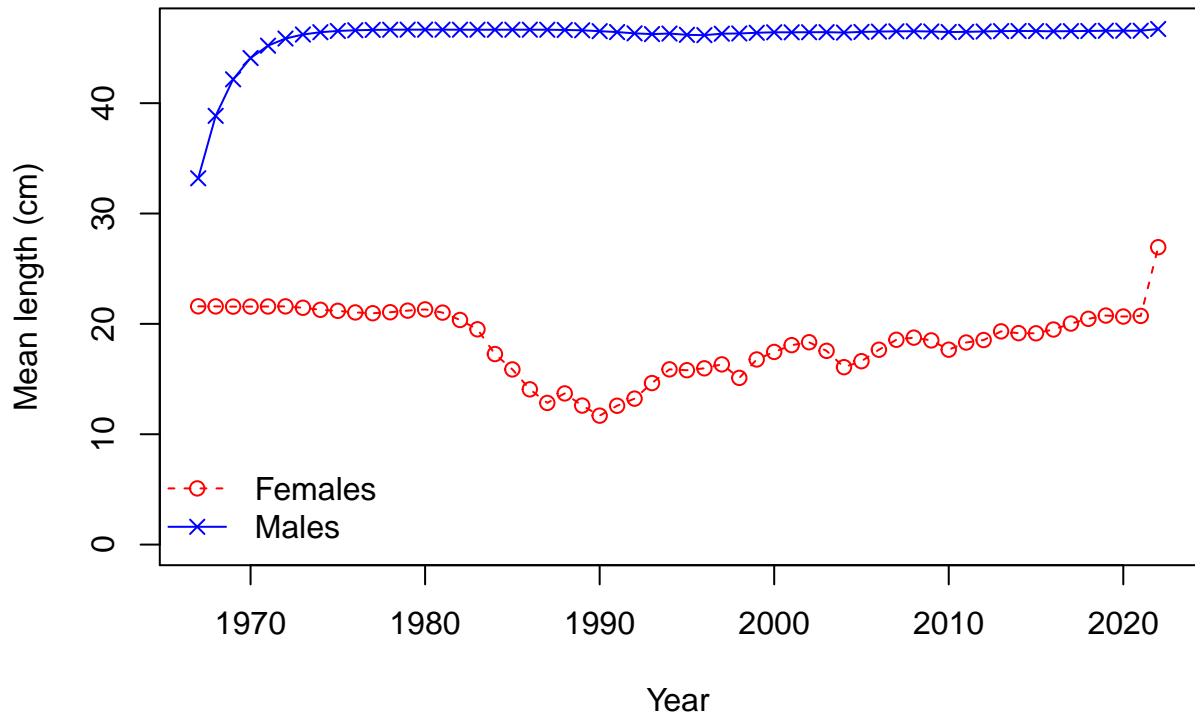
Age

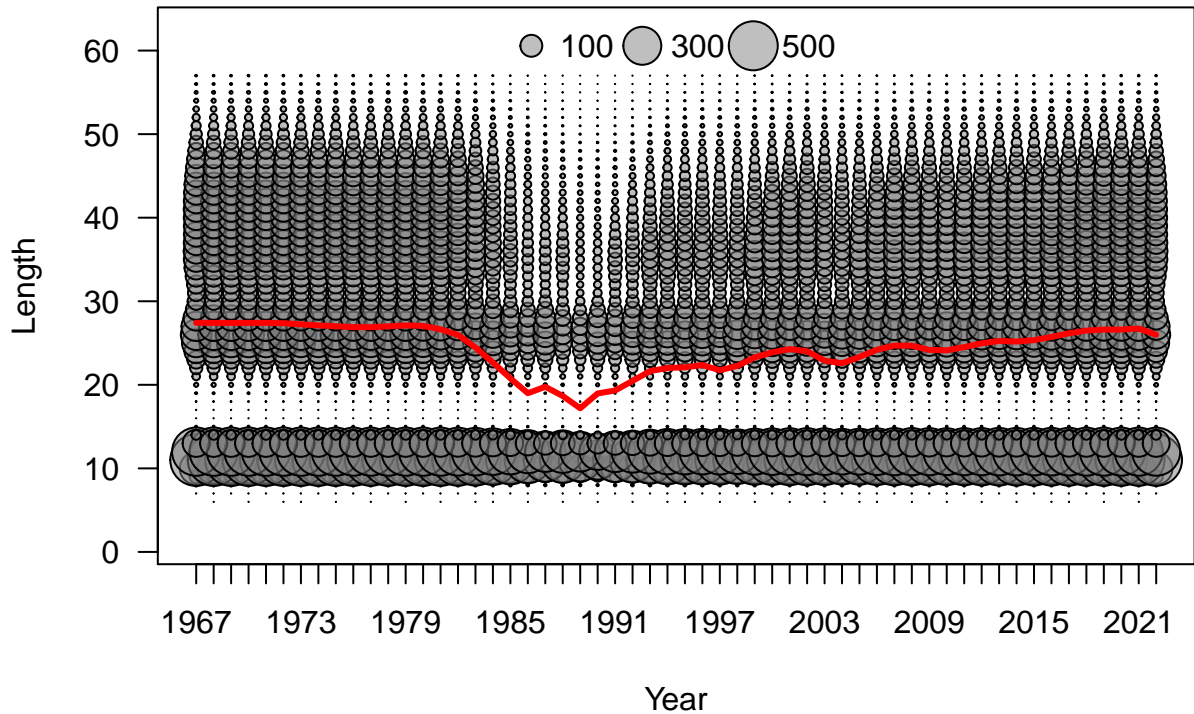


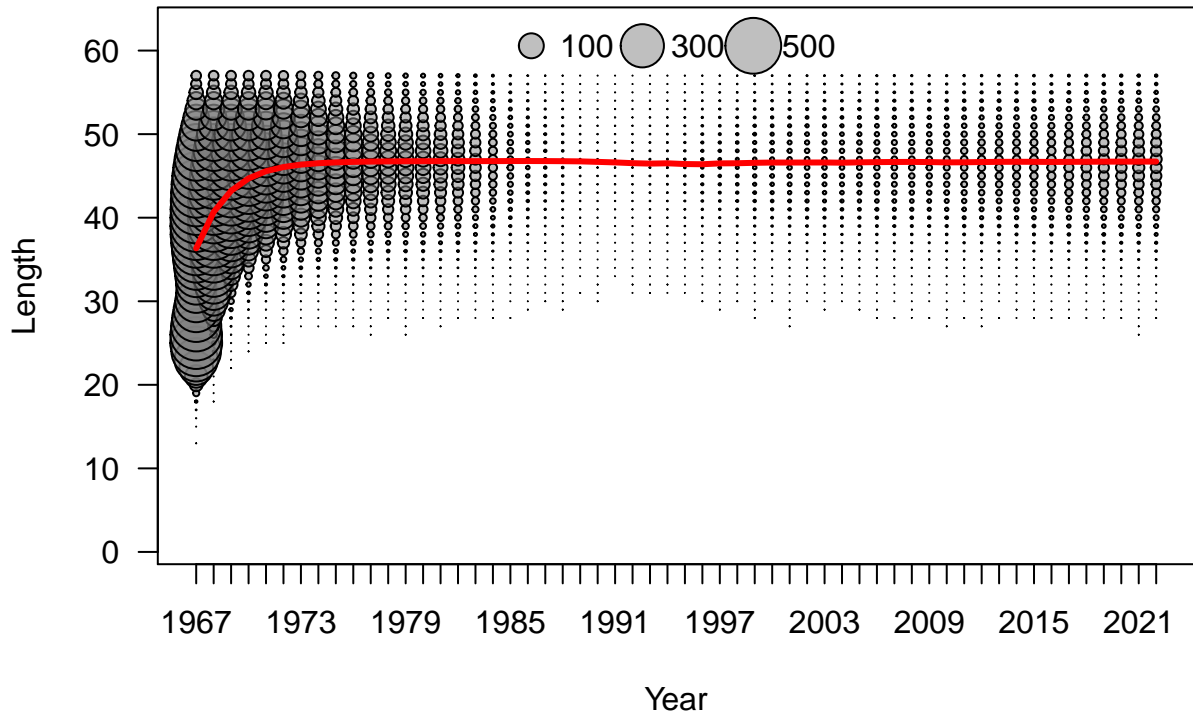
Year

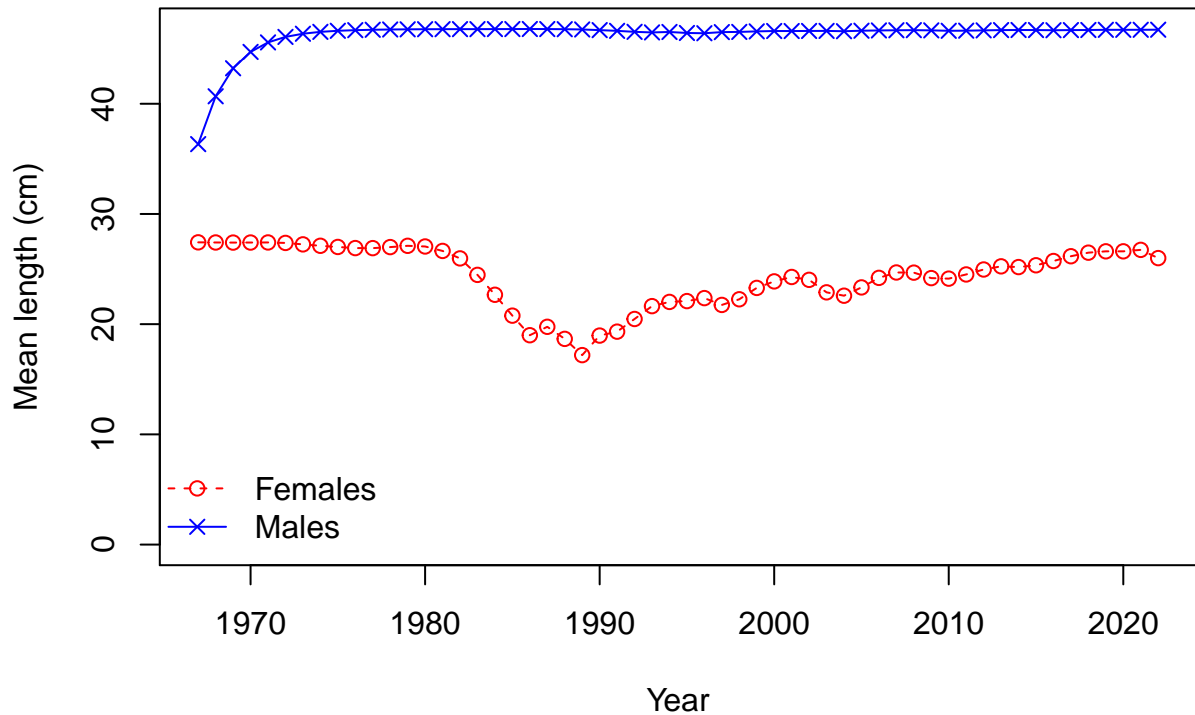




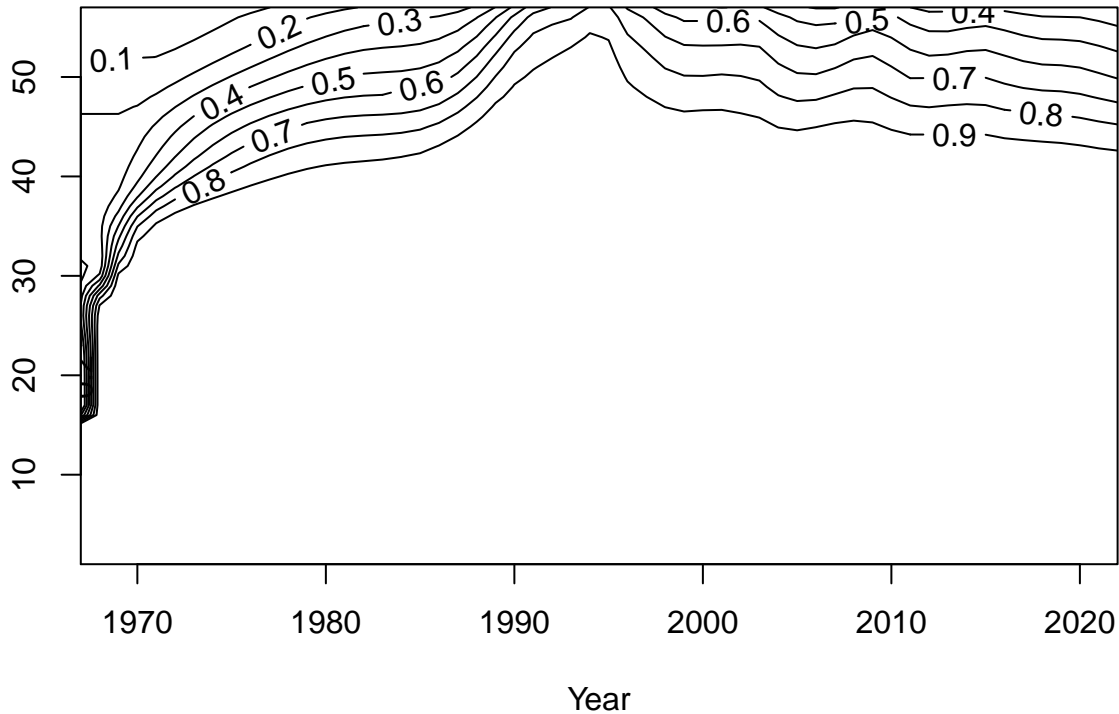


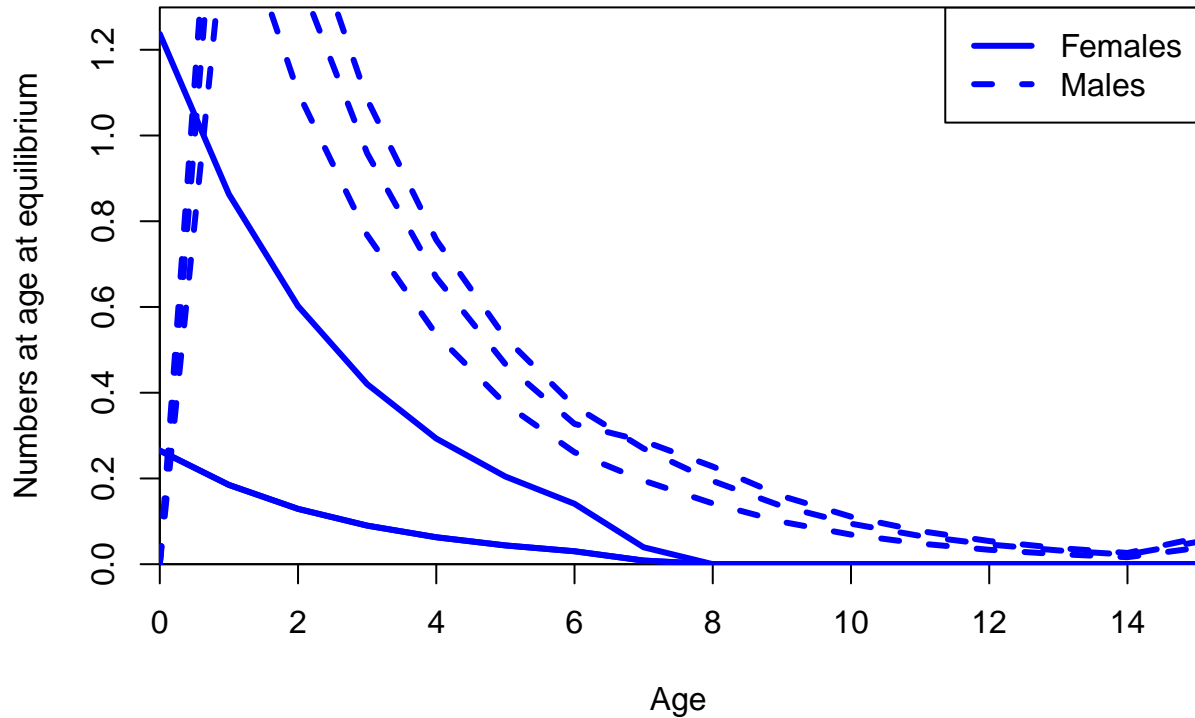


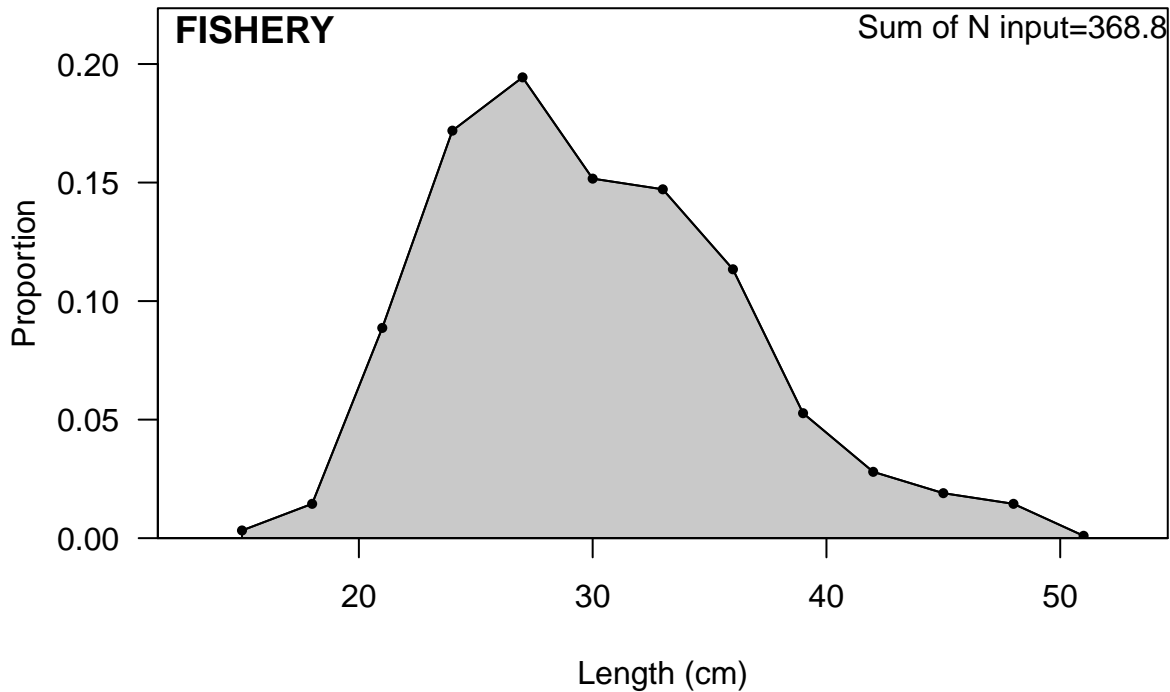


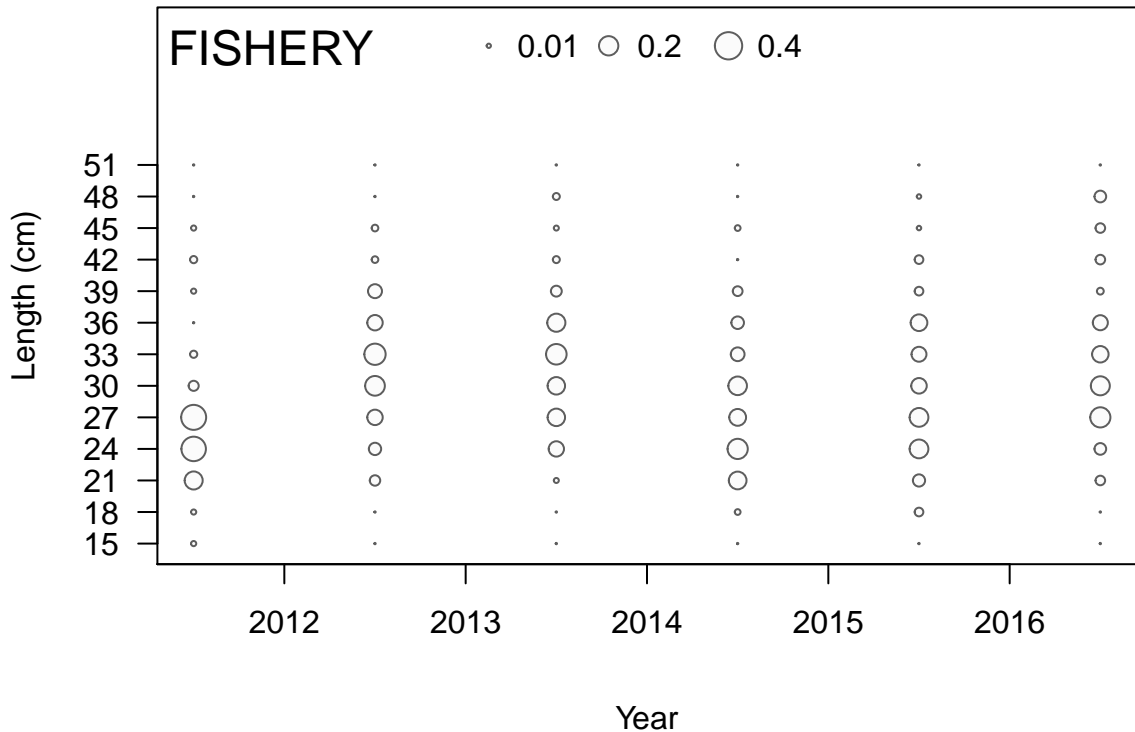


Length









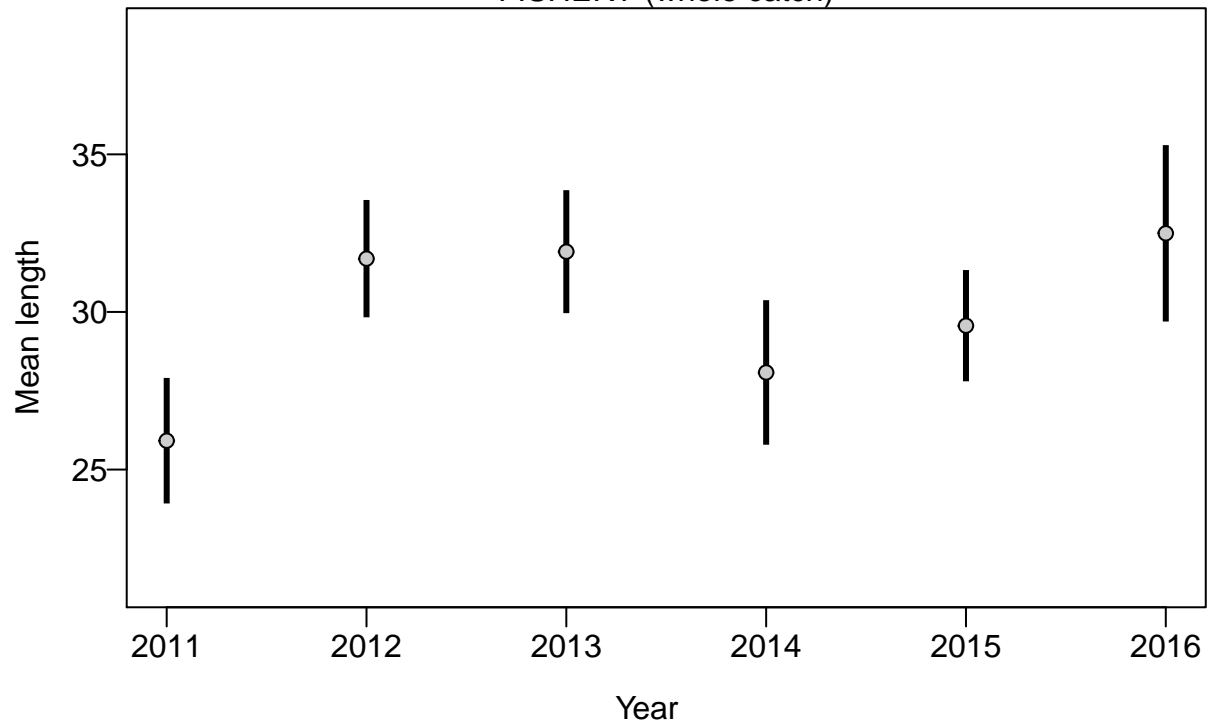
Proportion

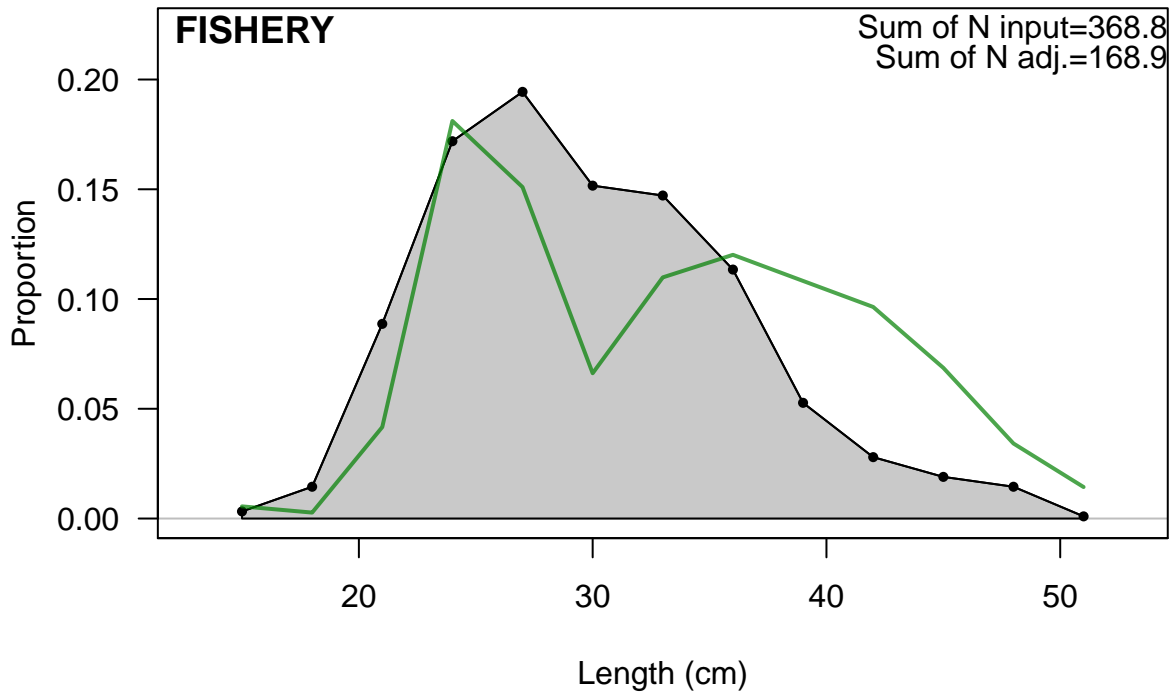


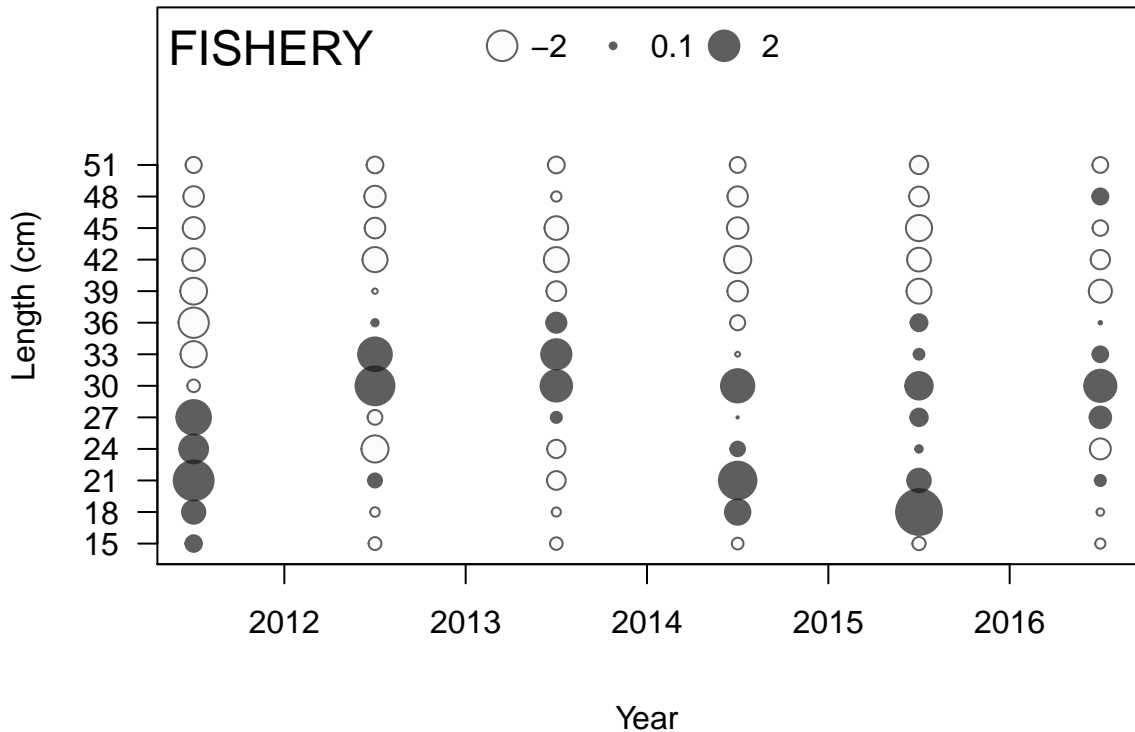
Length (cm)



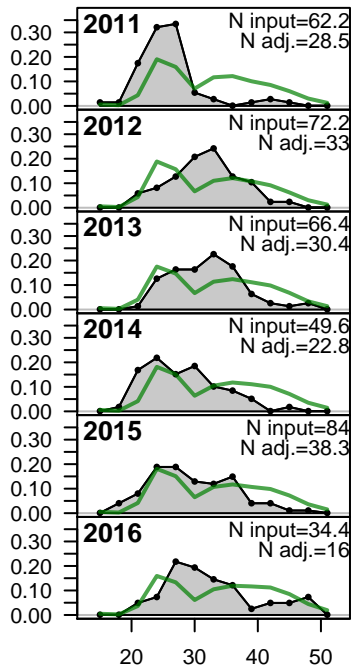
FISHERY (whole catch)



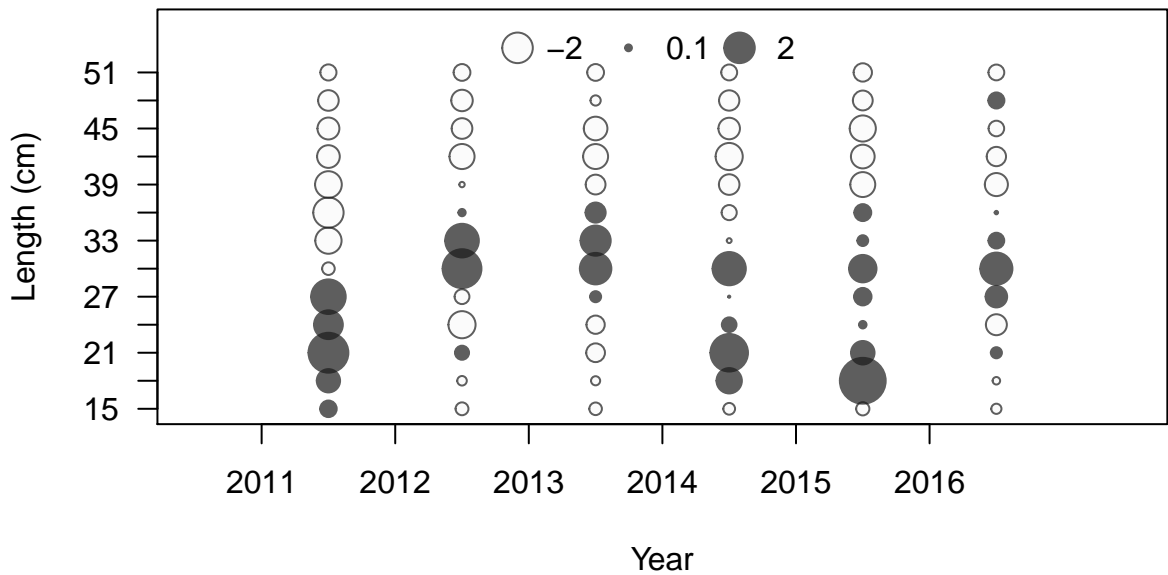




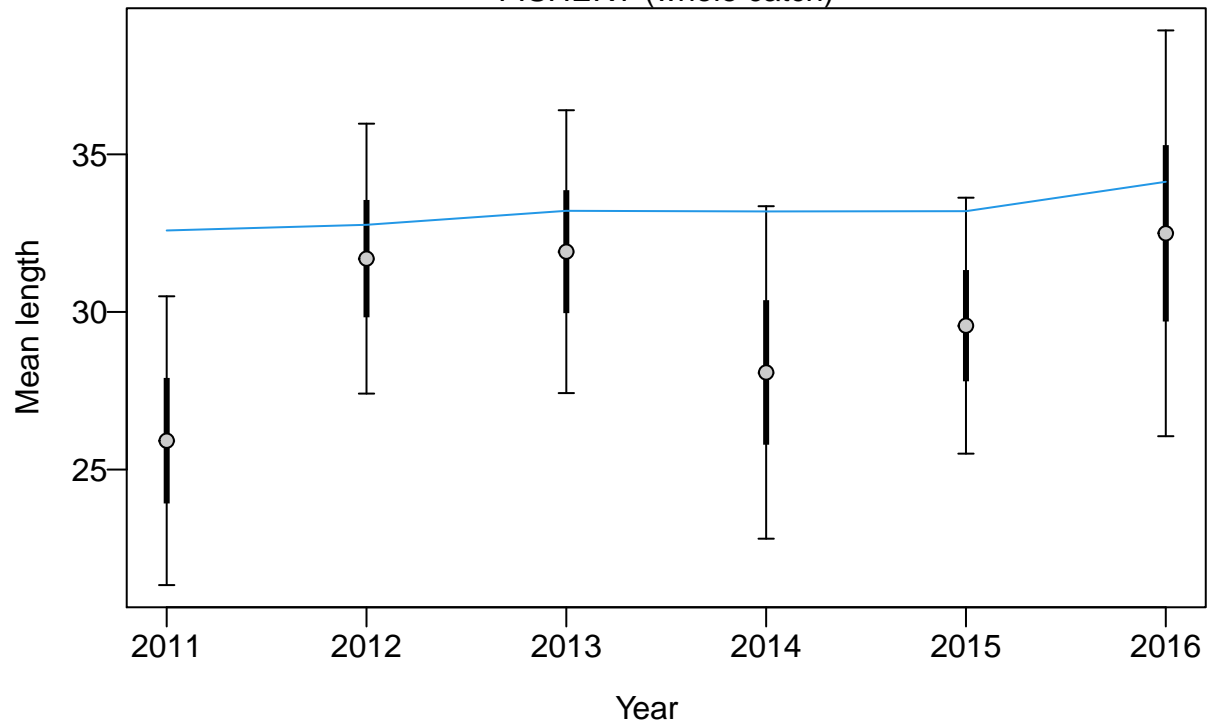
Proportion

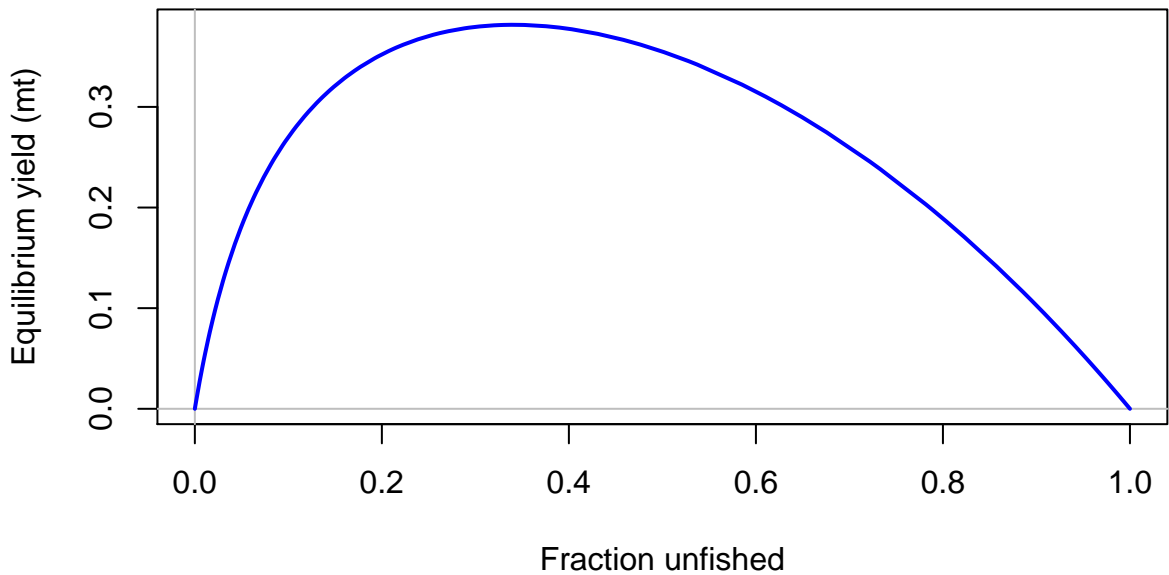


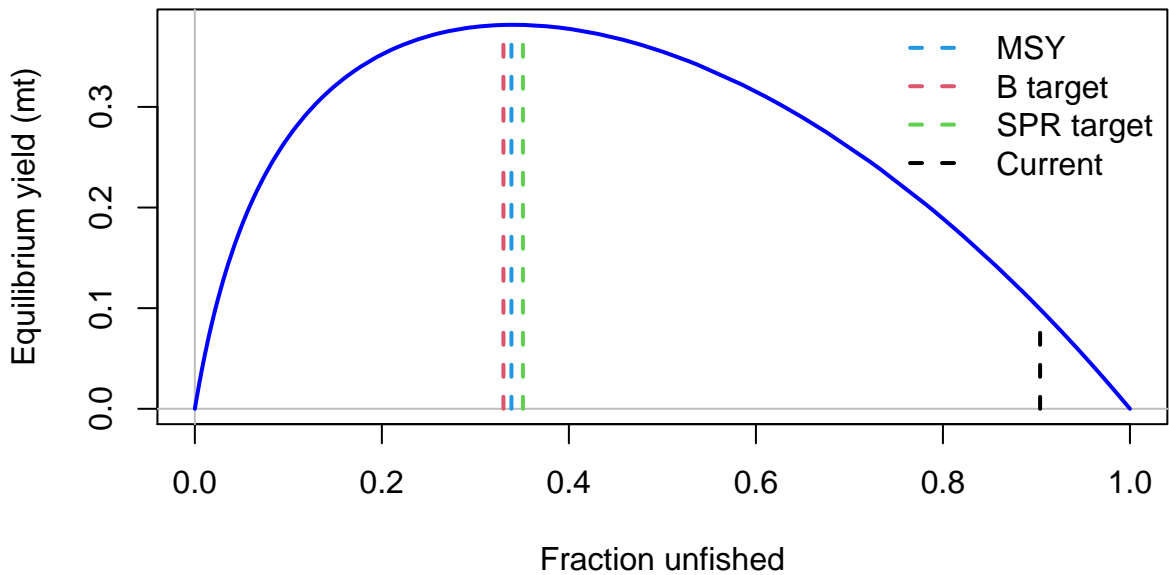
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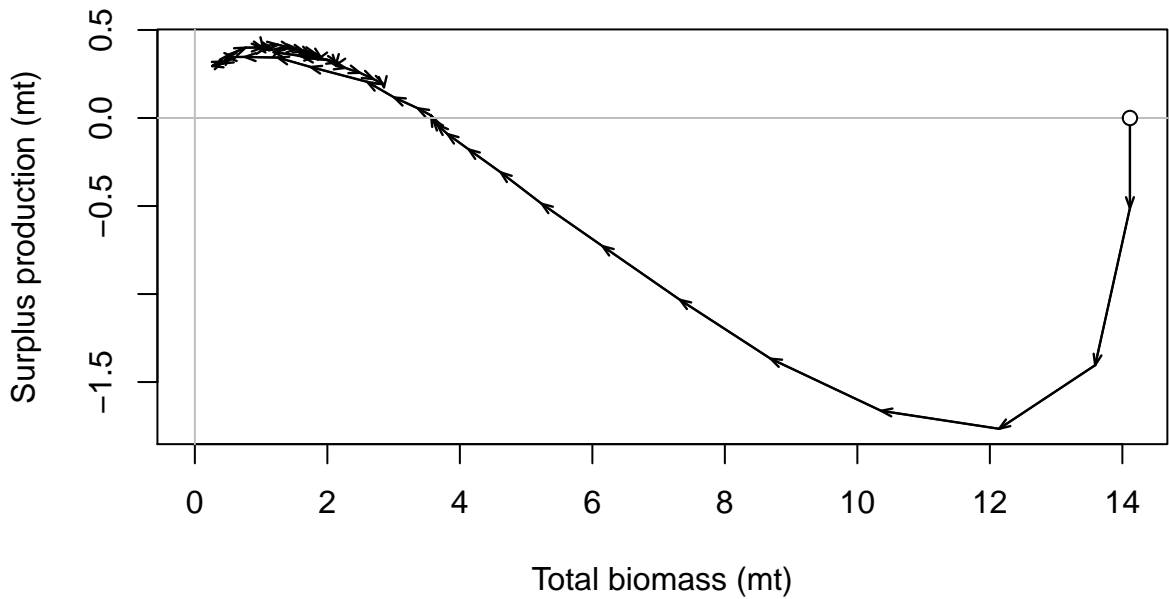


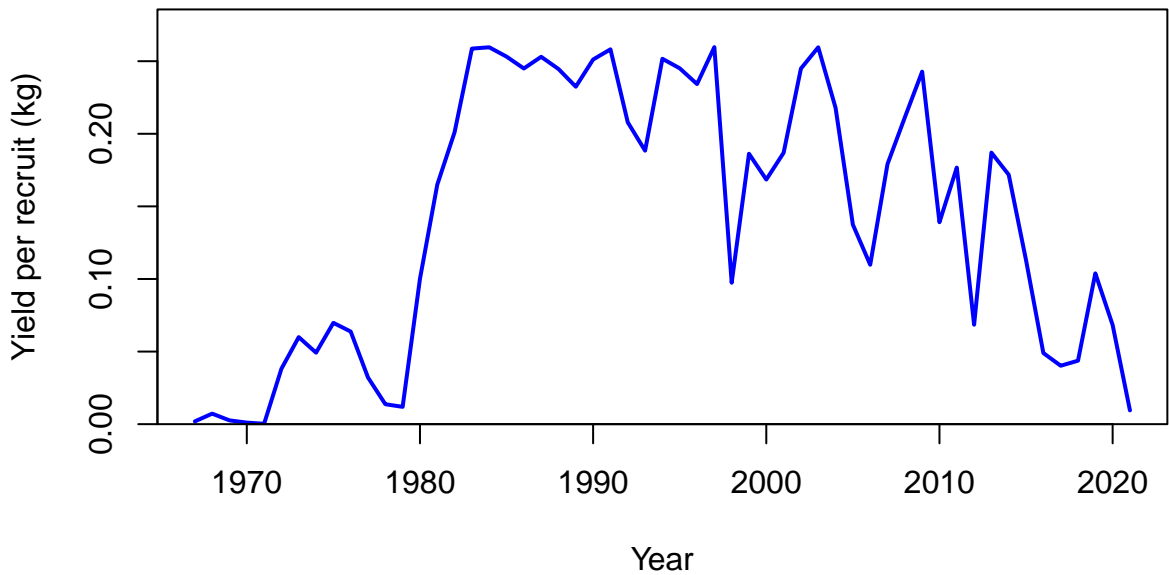
FISHERY (whole catch)

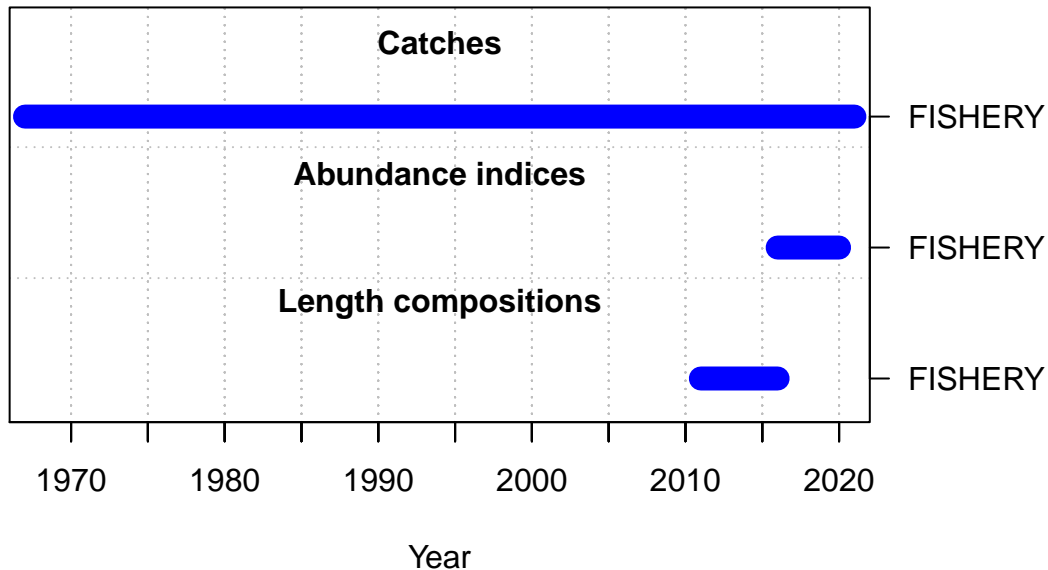


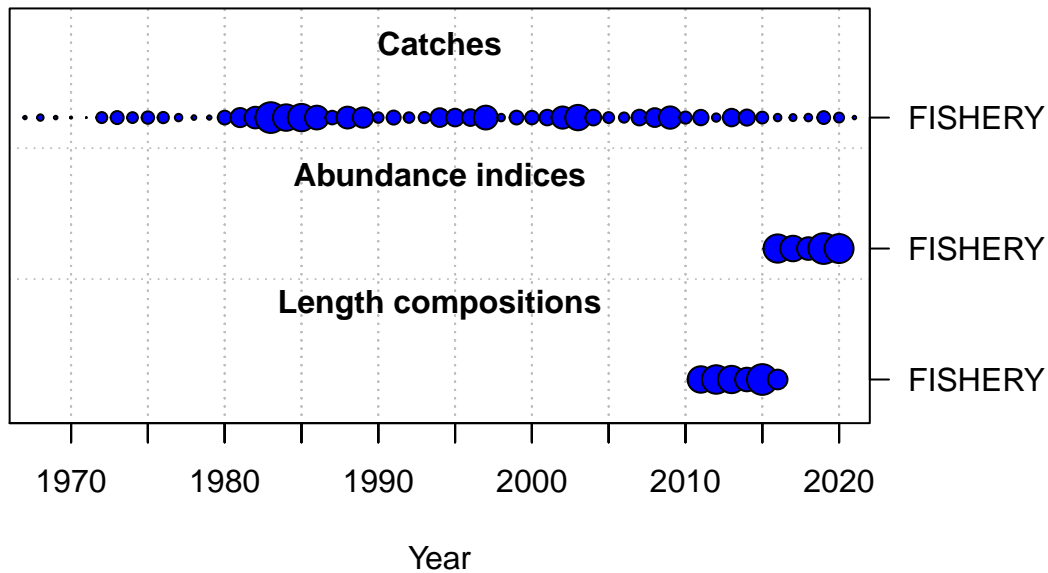




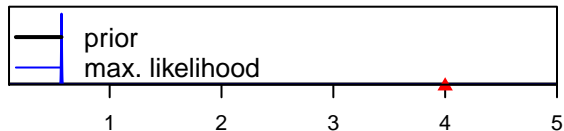




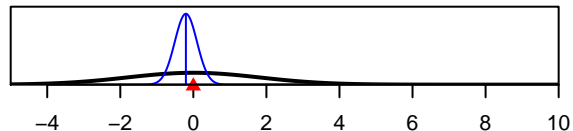




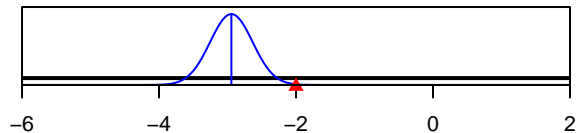
SR_LN(R0)



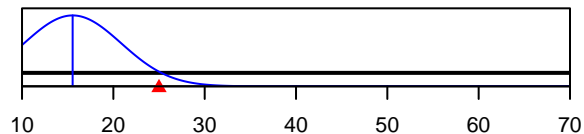
ln(DM_theta)_1



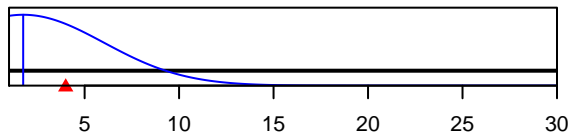
LnQ_base_FISHERY(1)



Size_inflection_FISHERY(1)



Size_95%width_FISHERY(1)



Parameter value