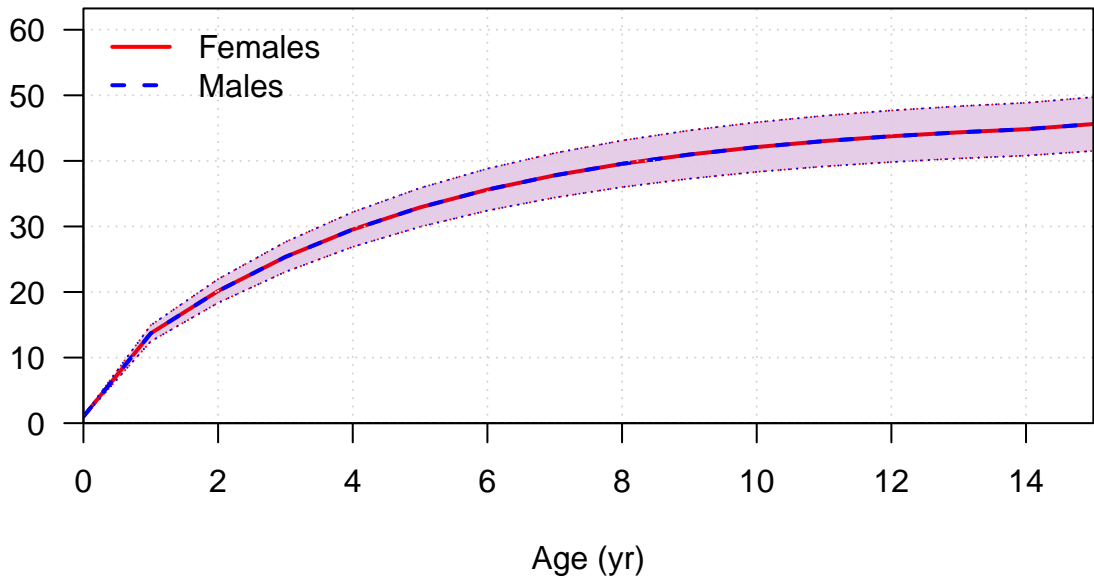
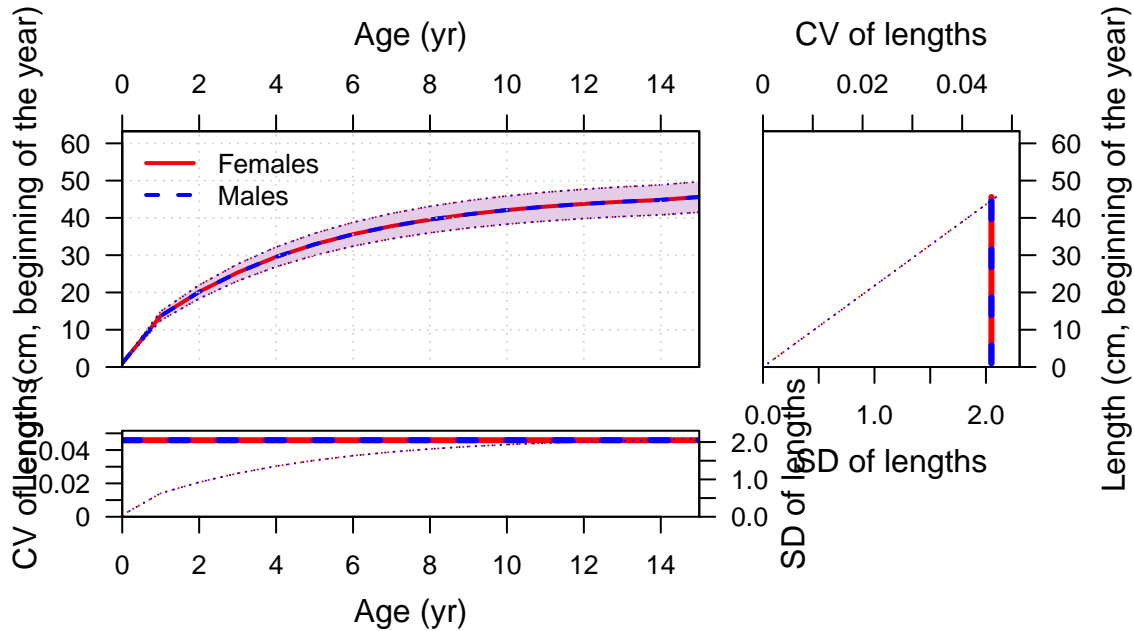
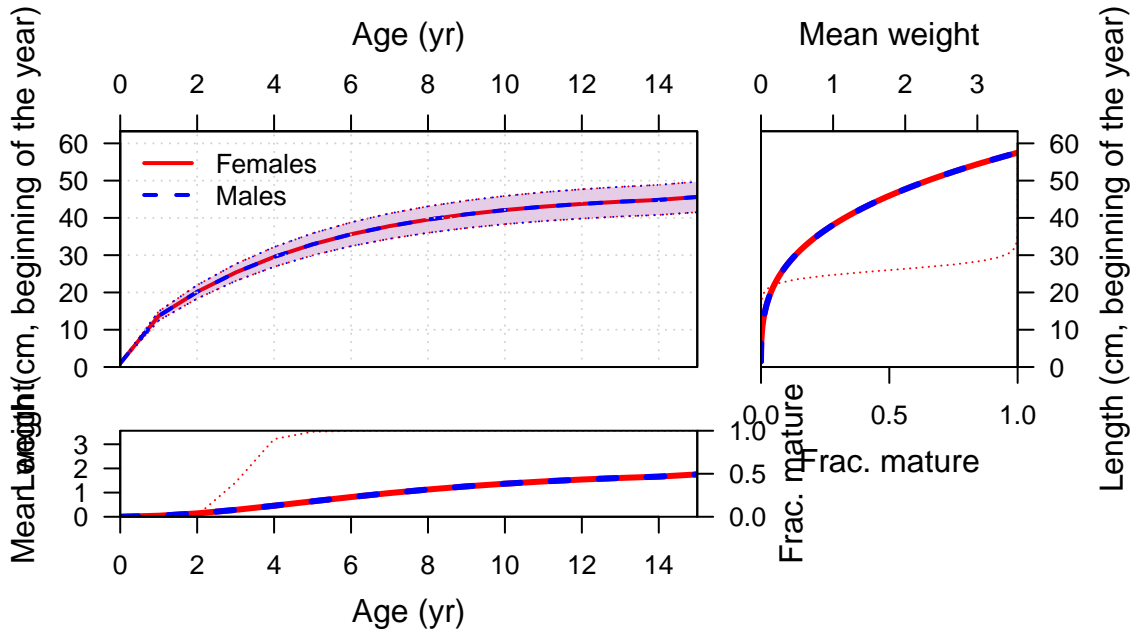


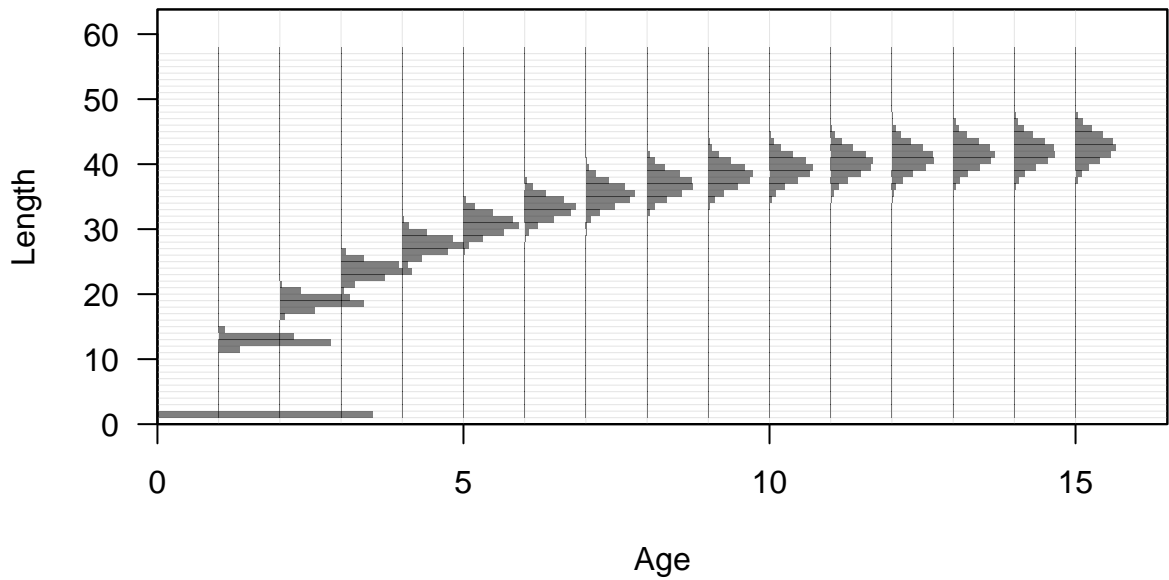
Plots created using the 'r4ss' package in R
Stock Synthesis version: 3.30.19.0
StartTime: Fri Oct 21 16:09:24 2022
Data_File: data.ss
Control_File: control.ss

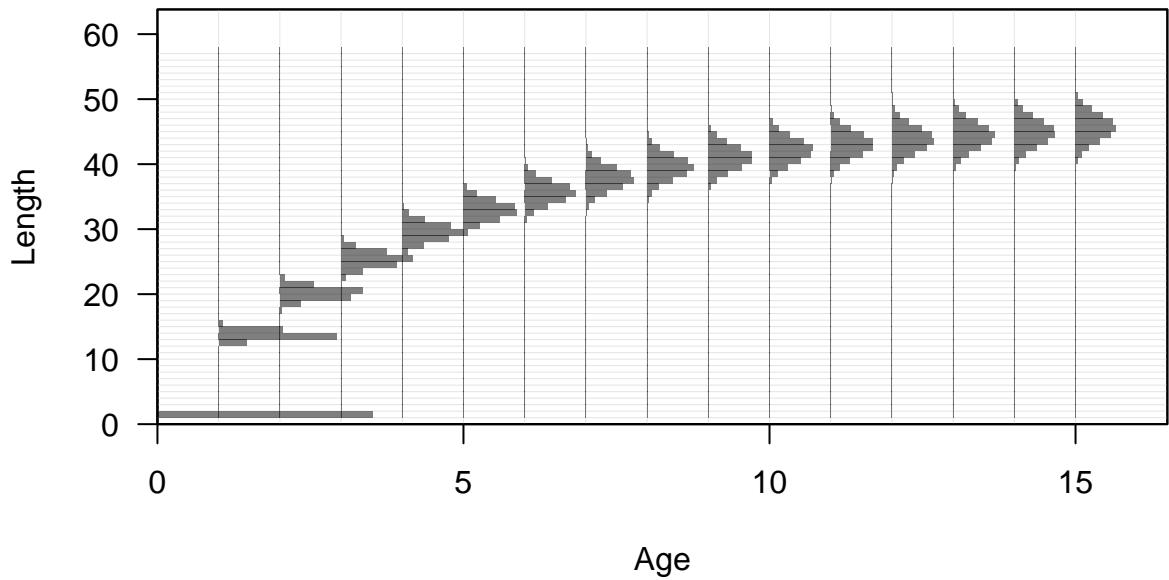
Length (cm, beginning of the year)

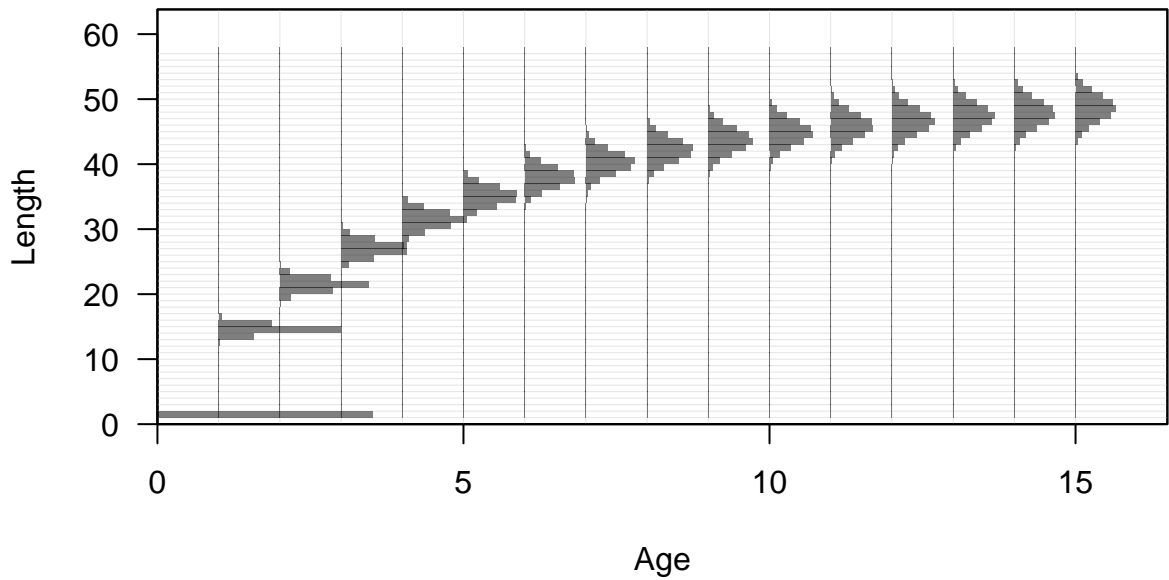


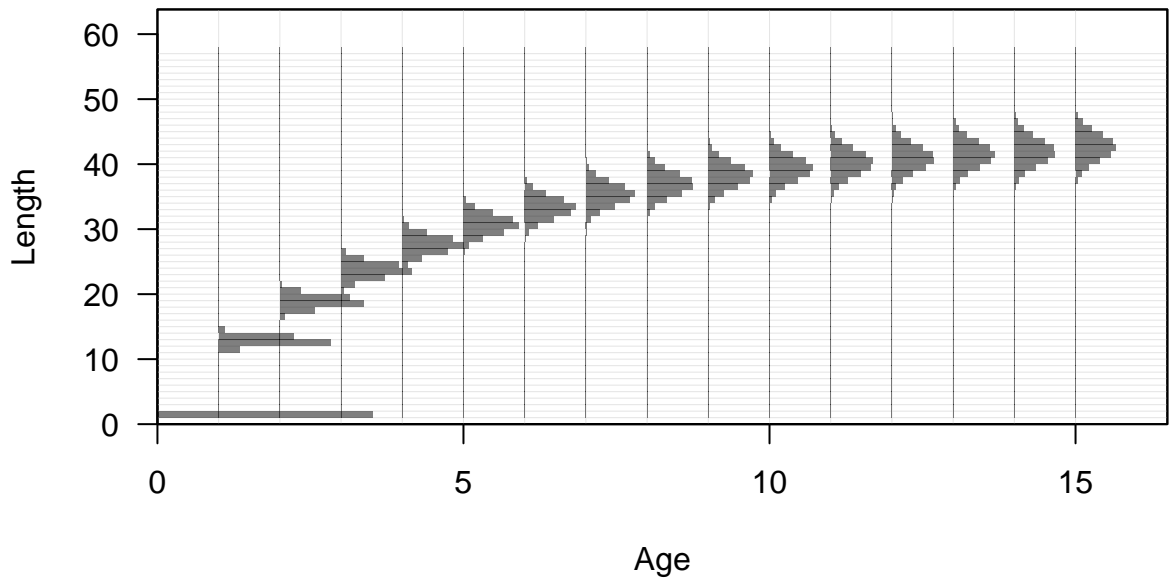


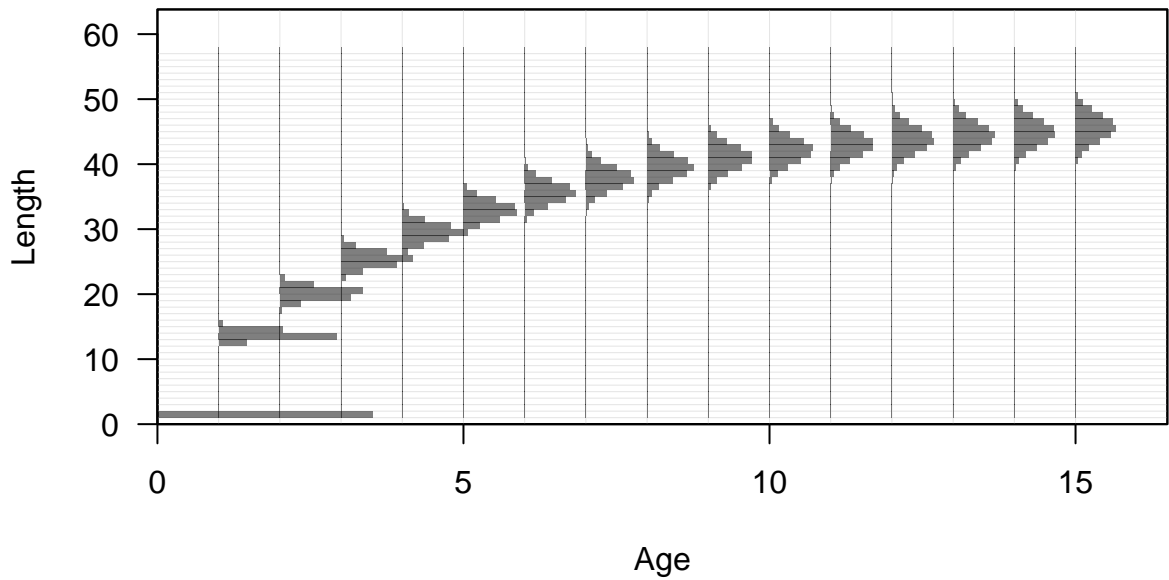


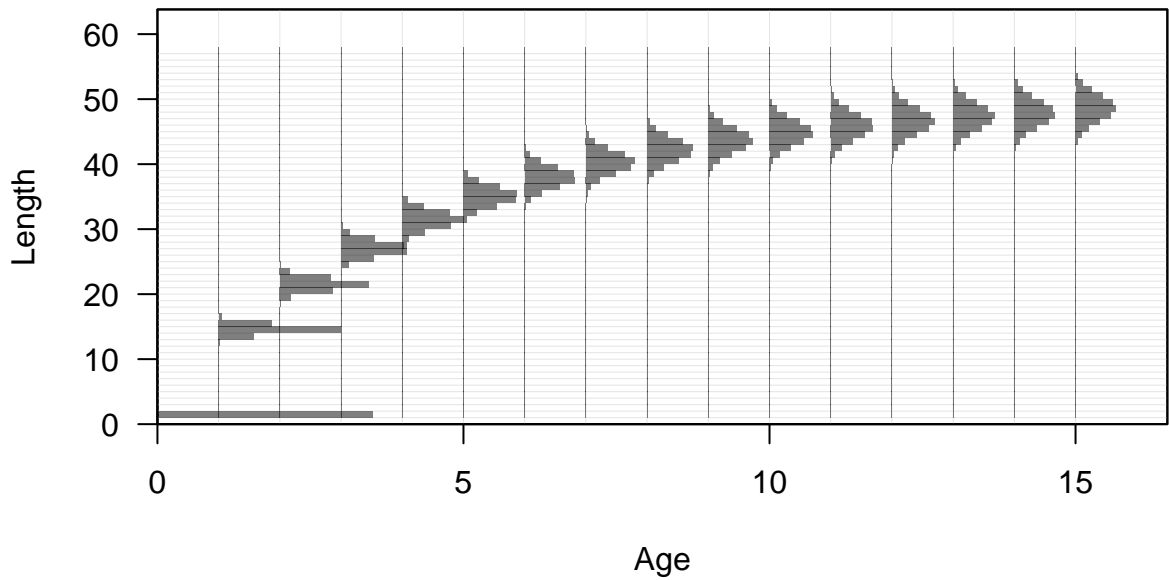


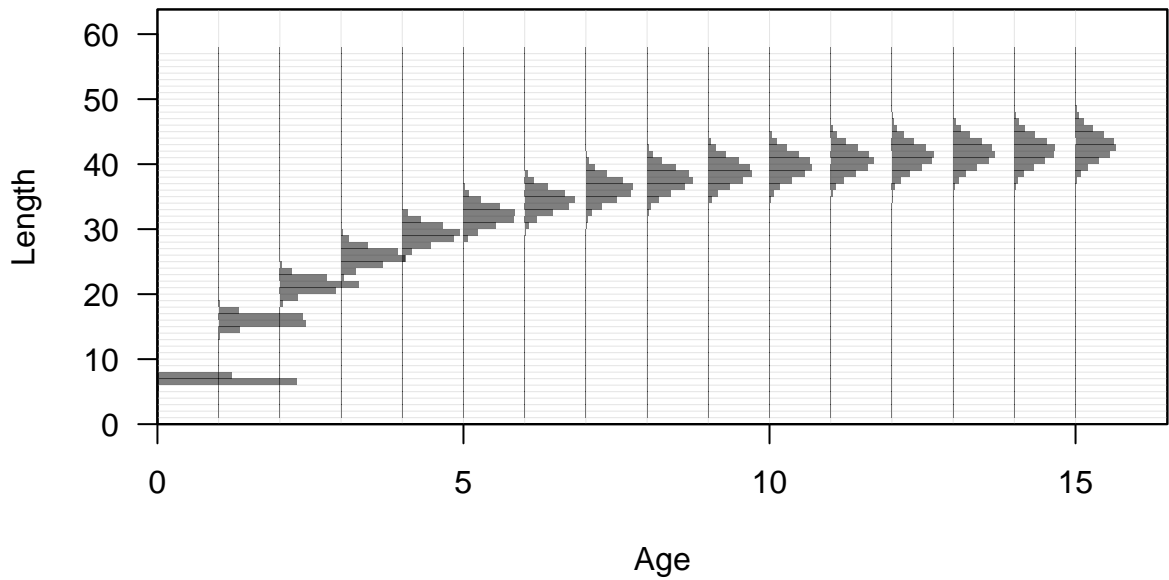


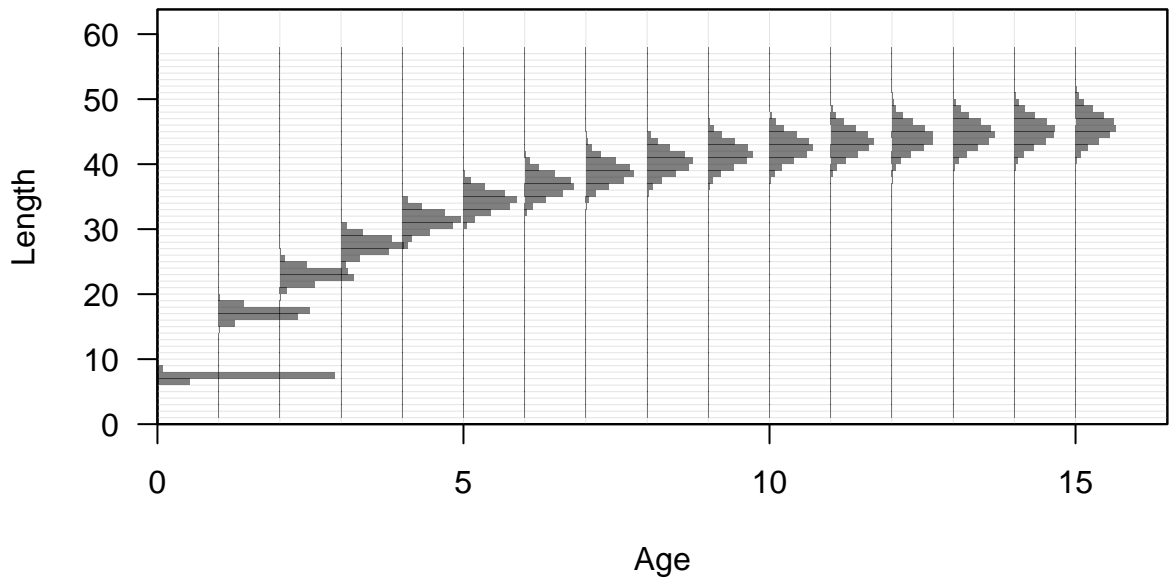


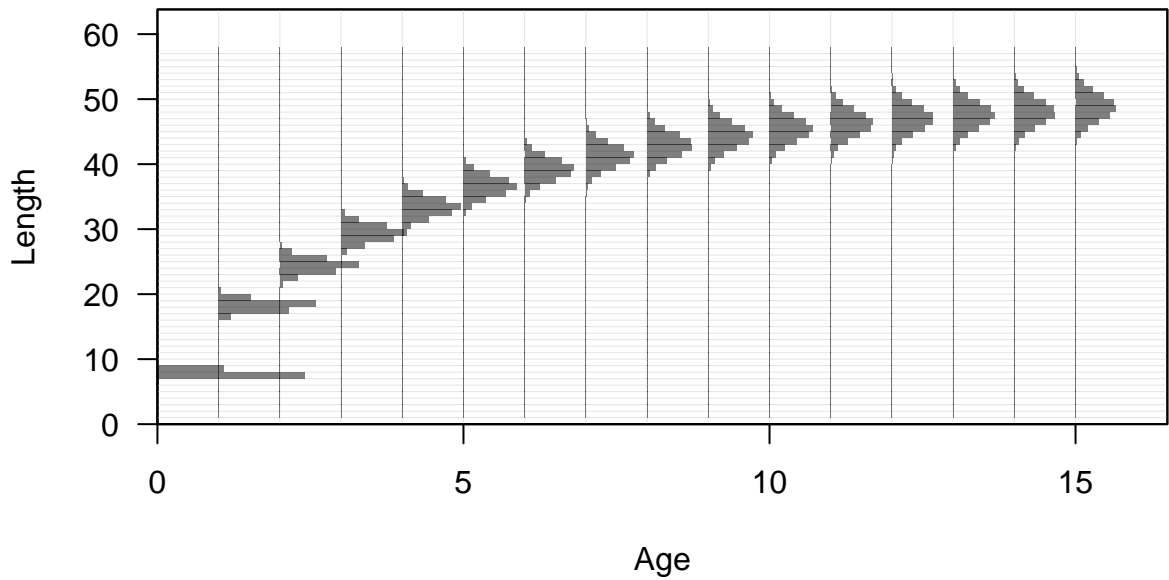


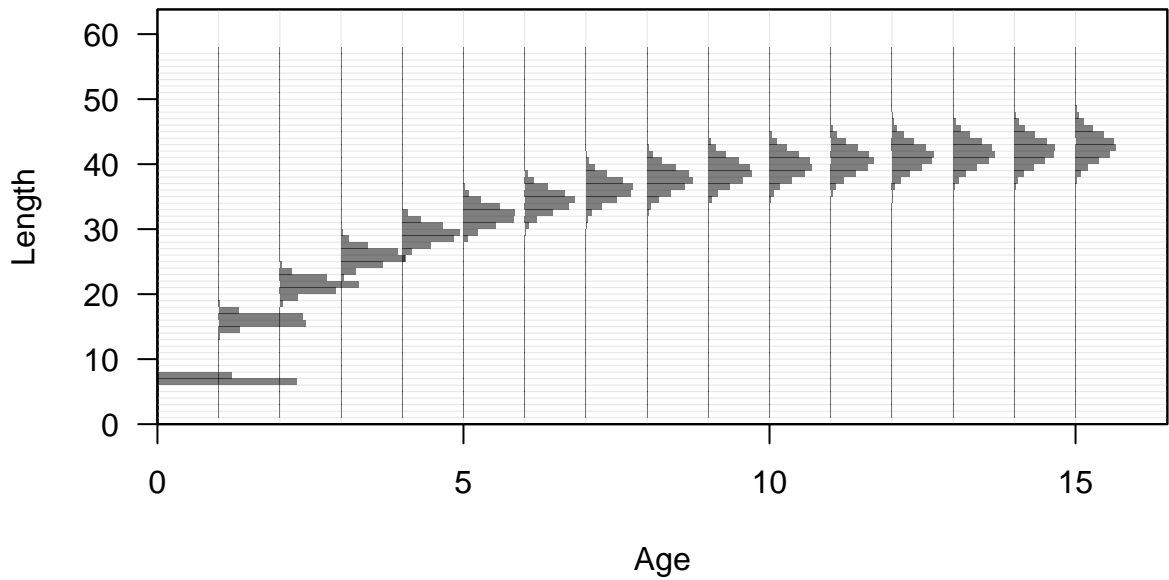


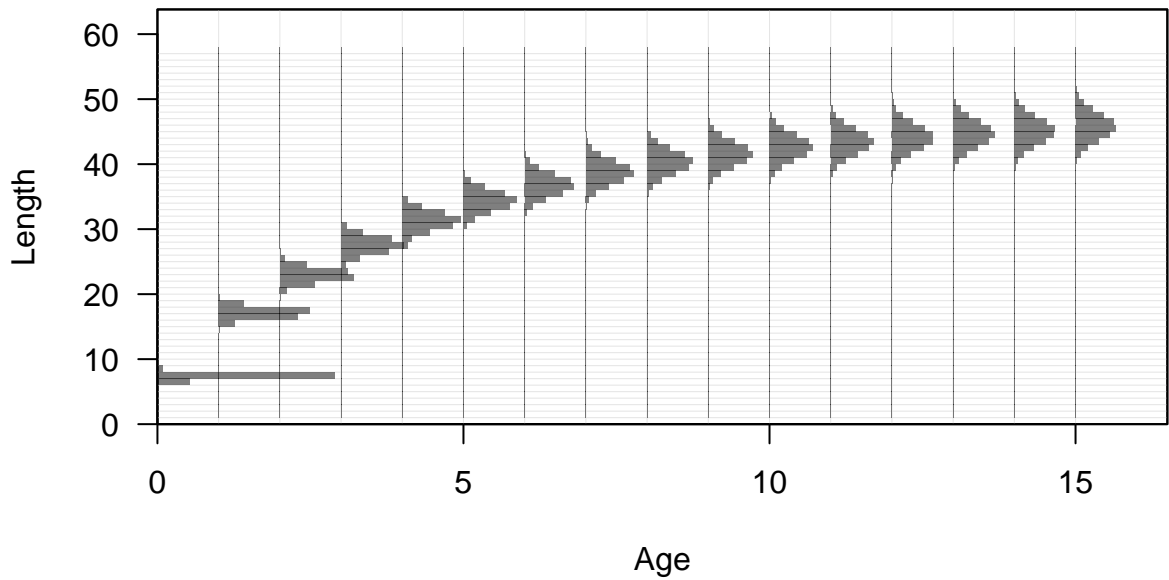


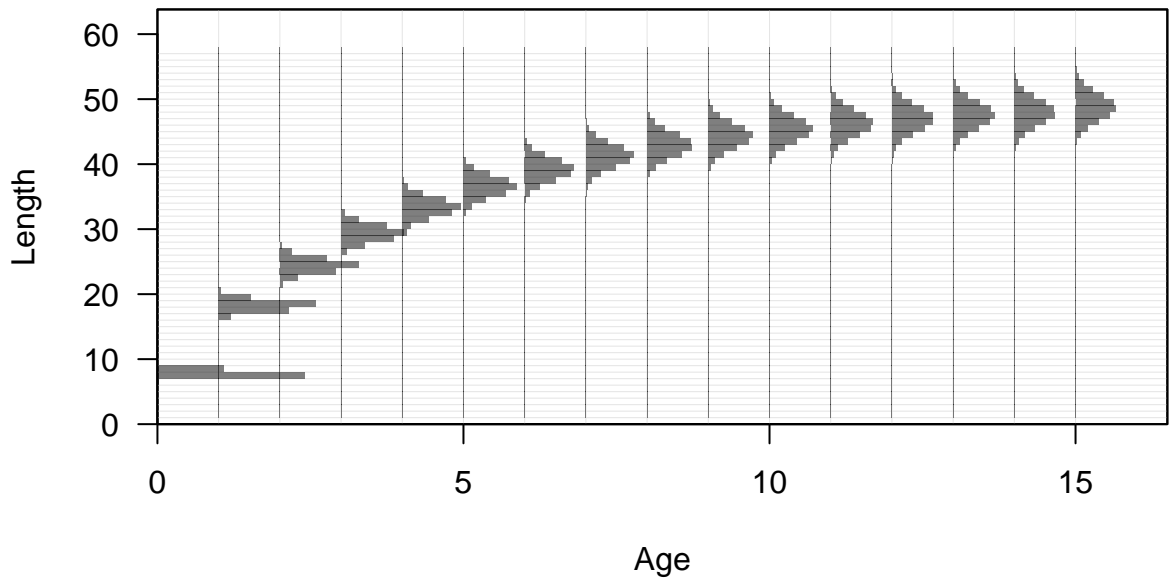




















Fecundity



Fecundity



Spawning output

3

2

1

0

0

10

20

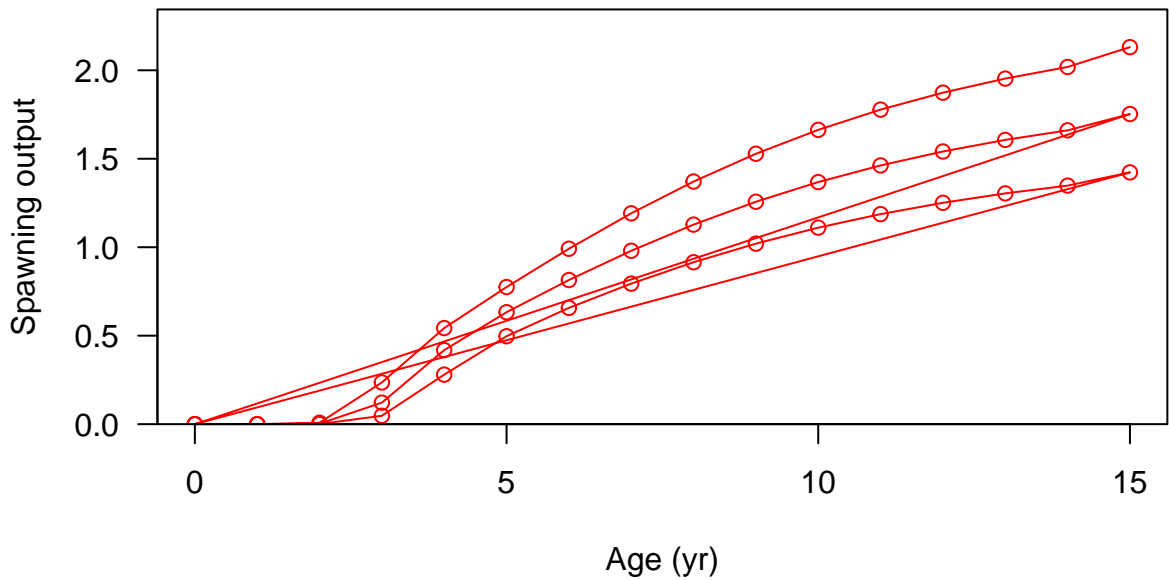
30

40

50

Length (cm)





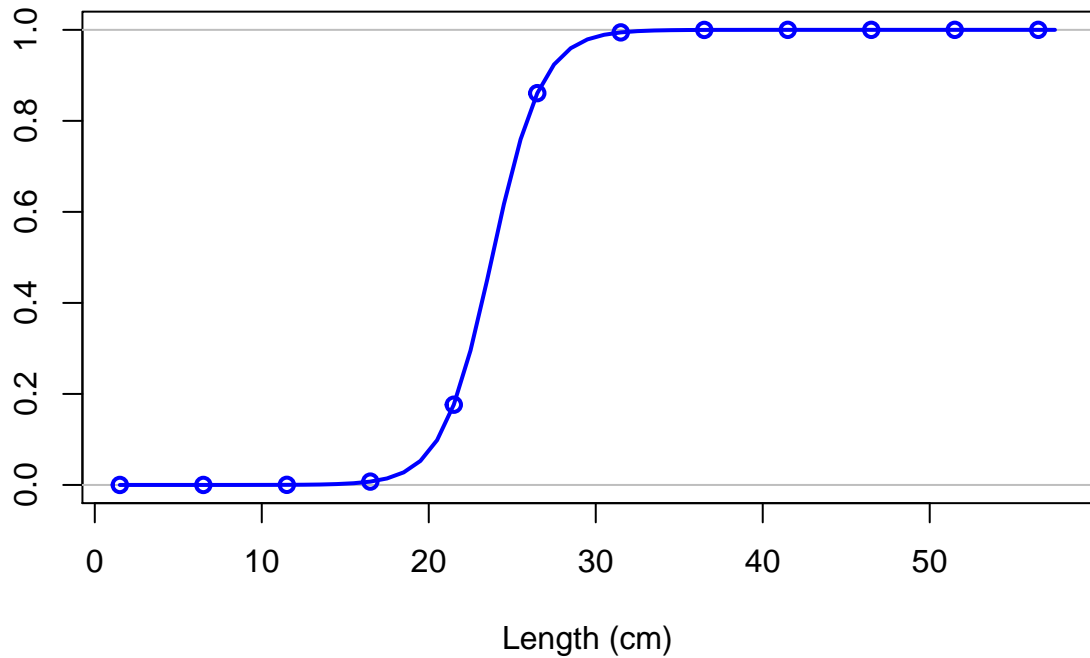
Hermaphroditism transition rate



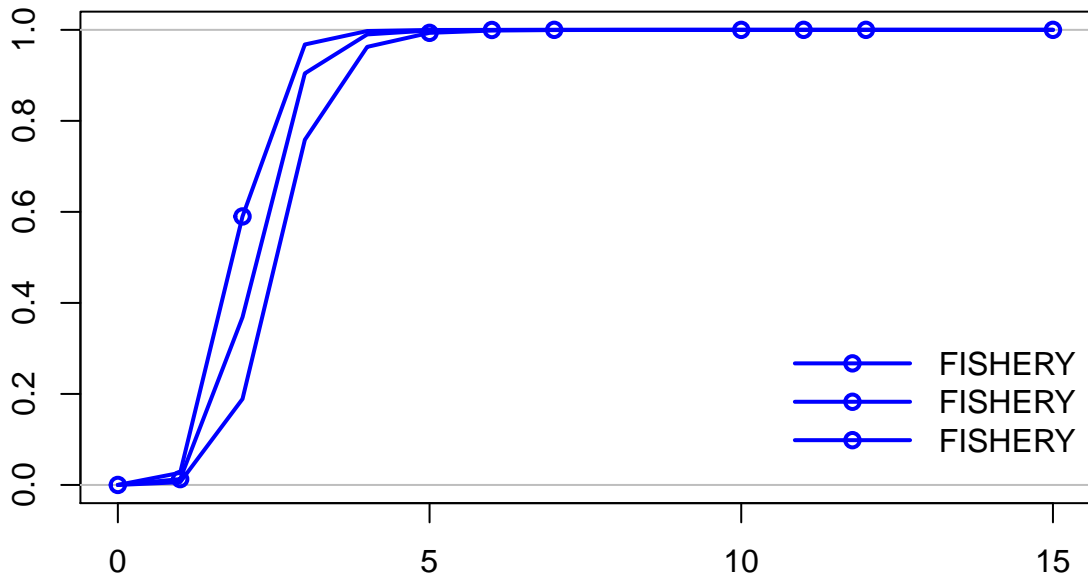
Fraction females by age at equilibrium



Selectivity

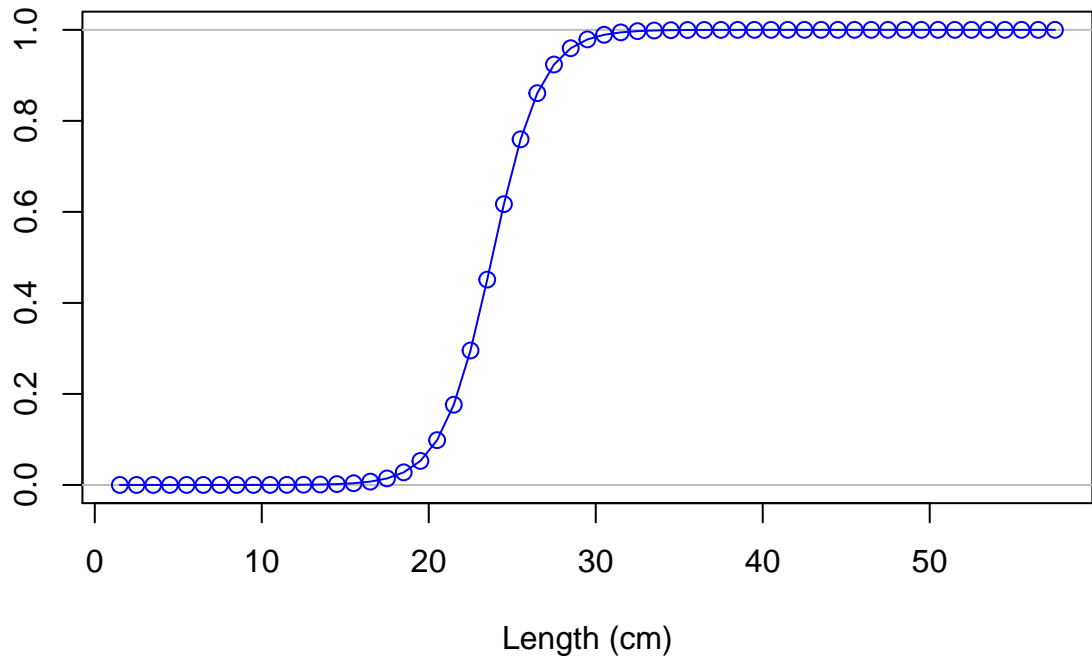


Selectivity

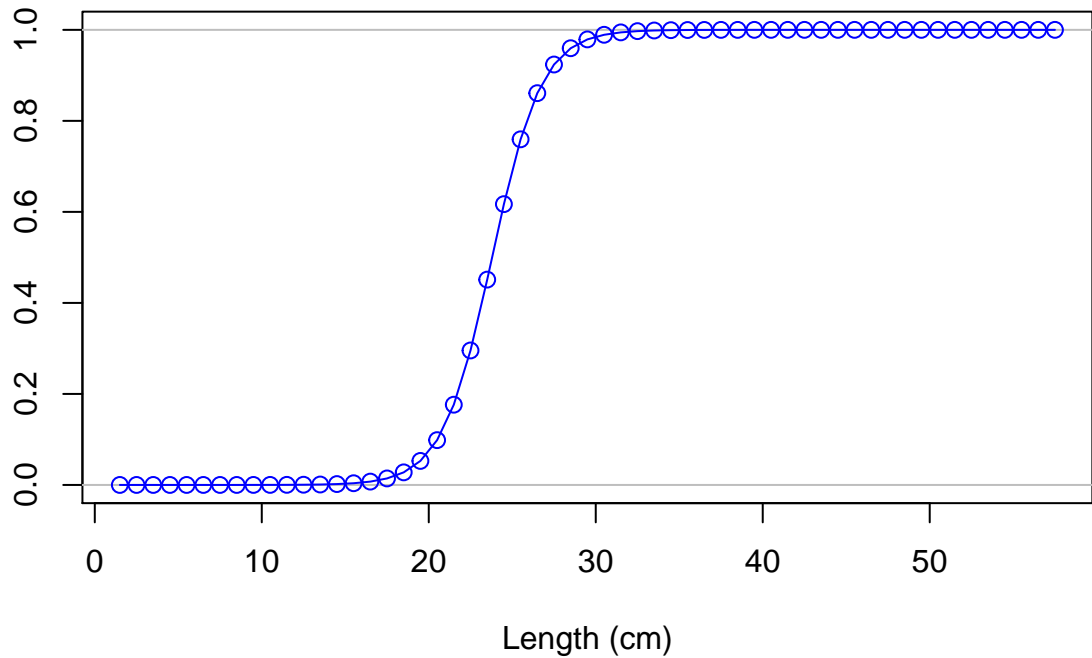


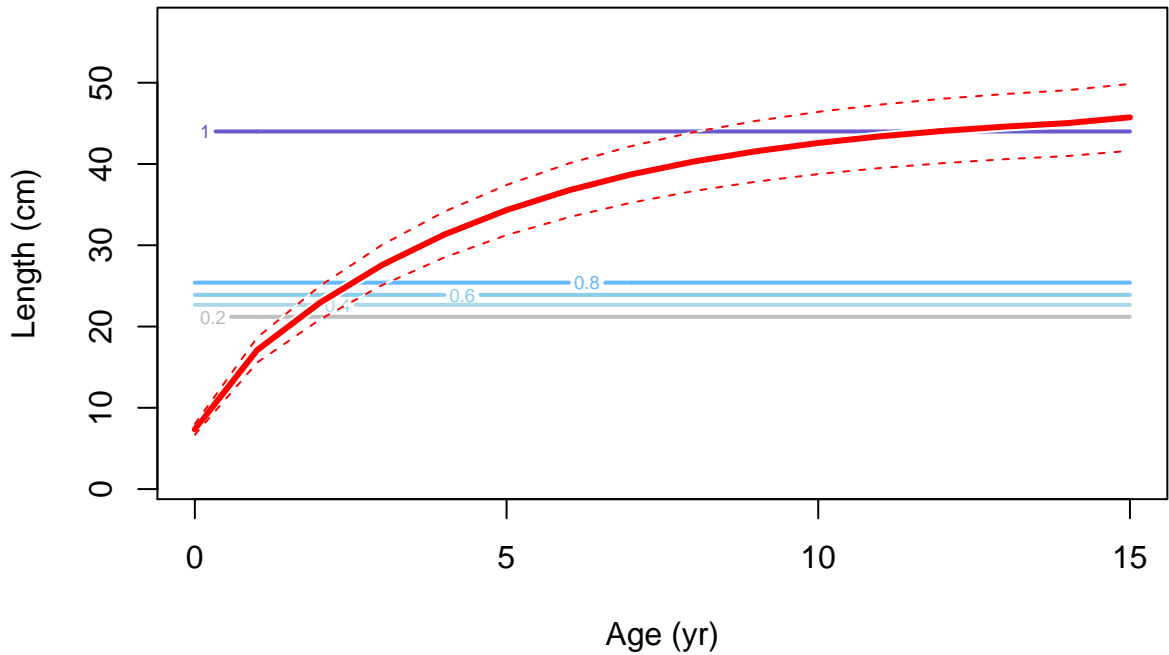
Age (yr)

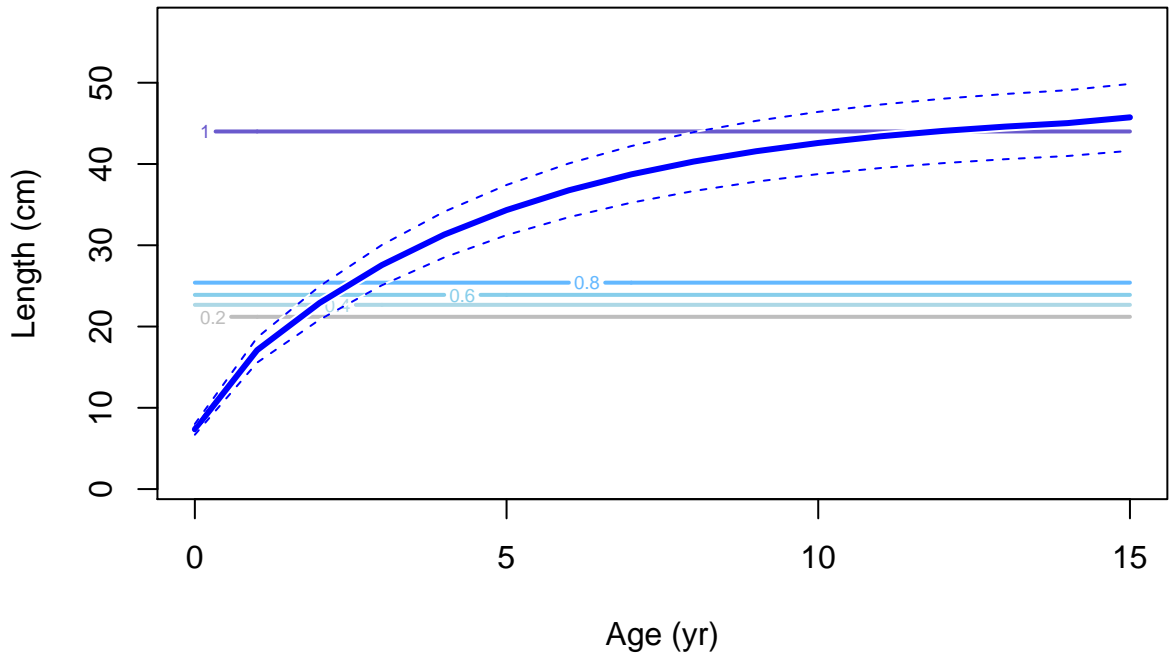
Selectivity

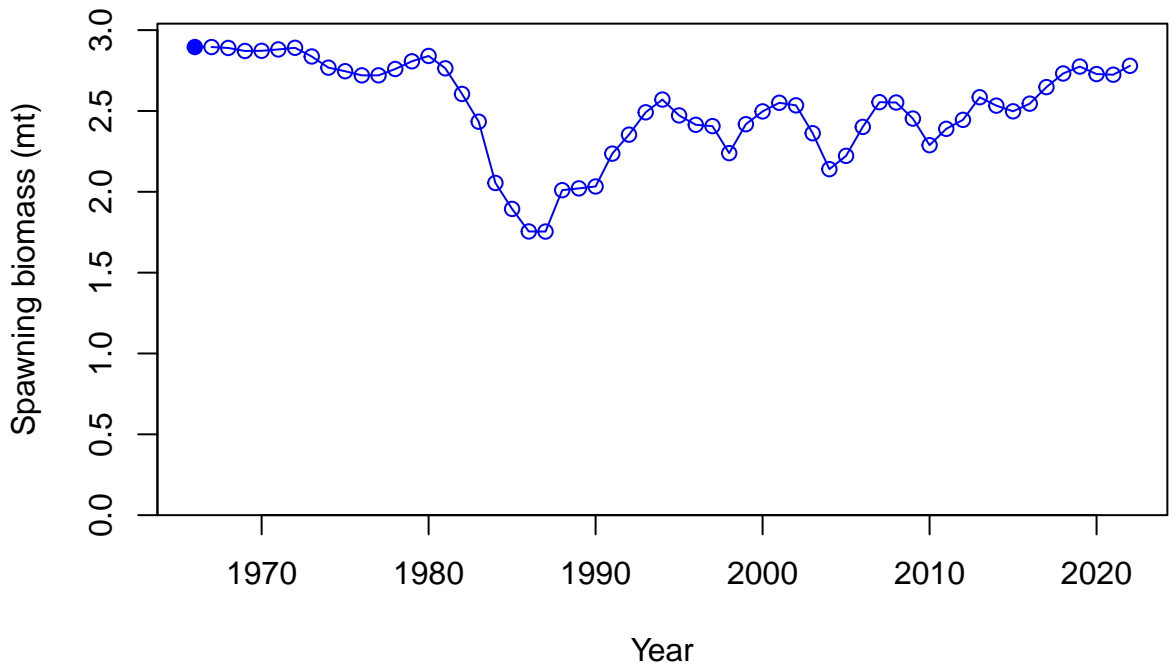


Selectivity

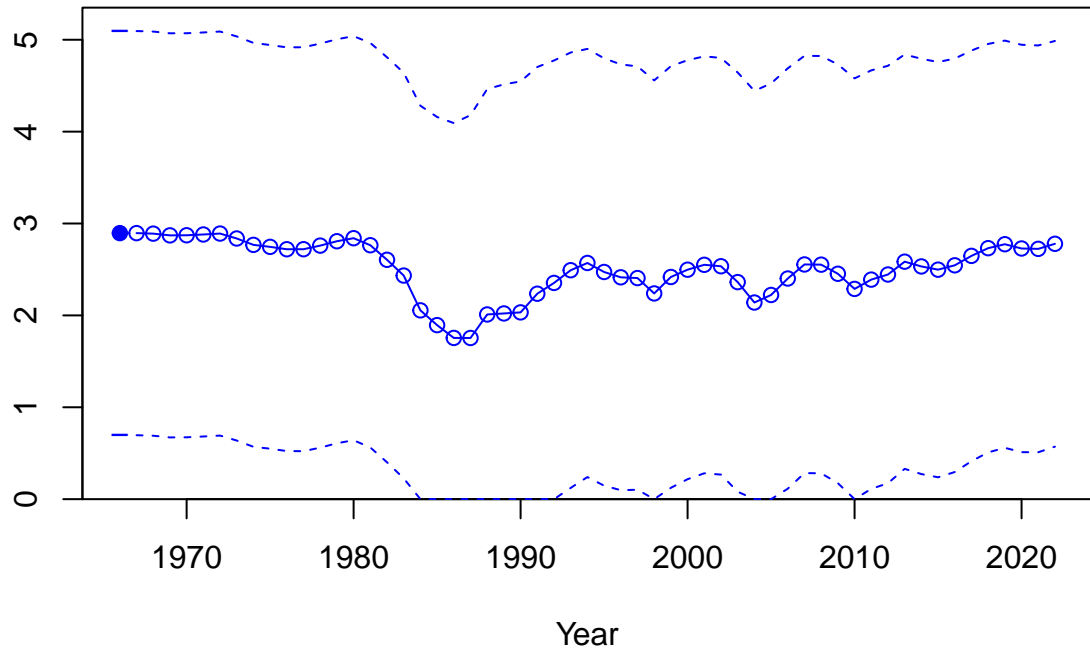




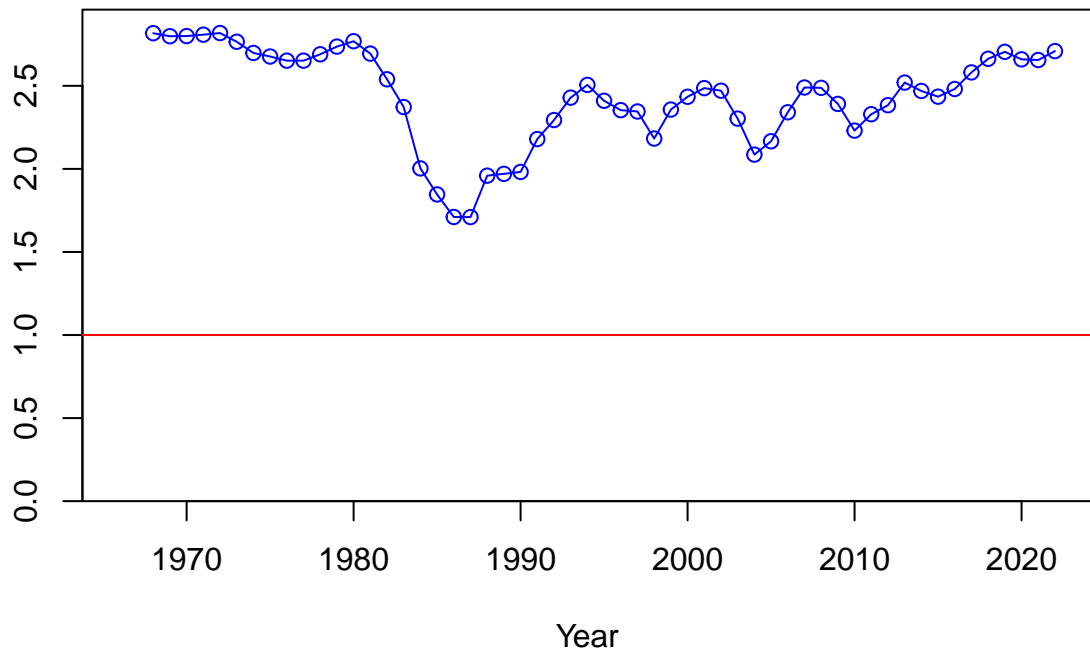




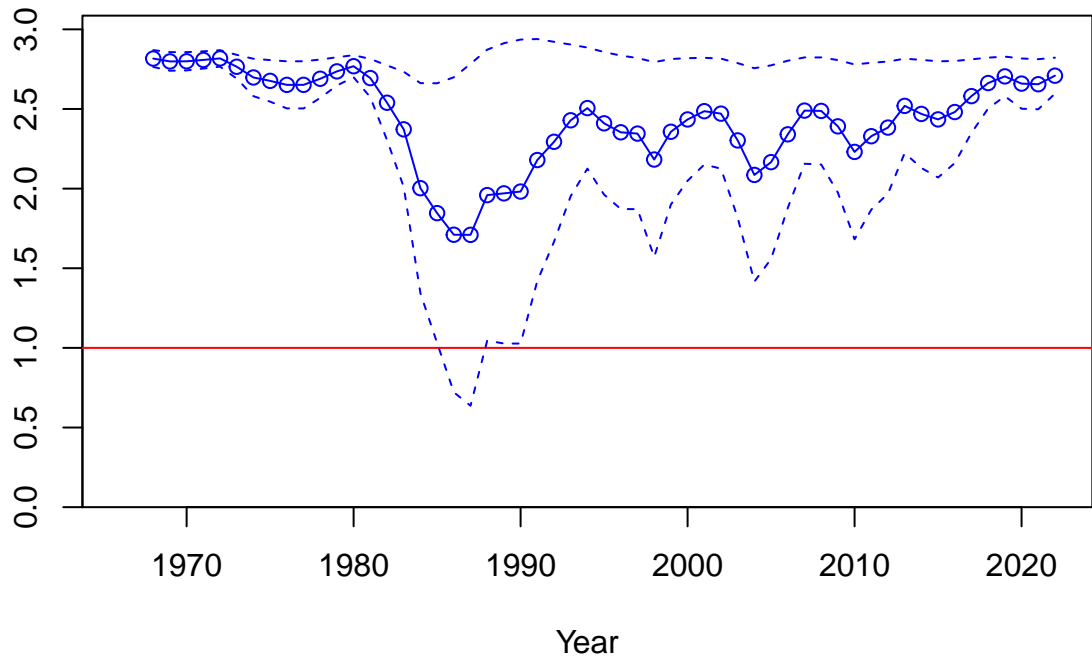
Spawning biomass (mt)

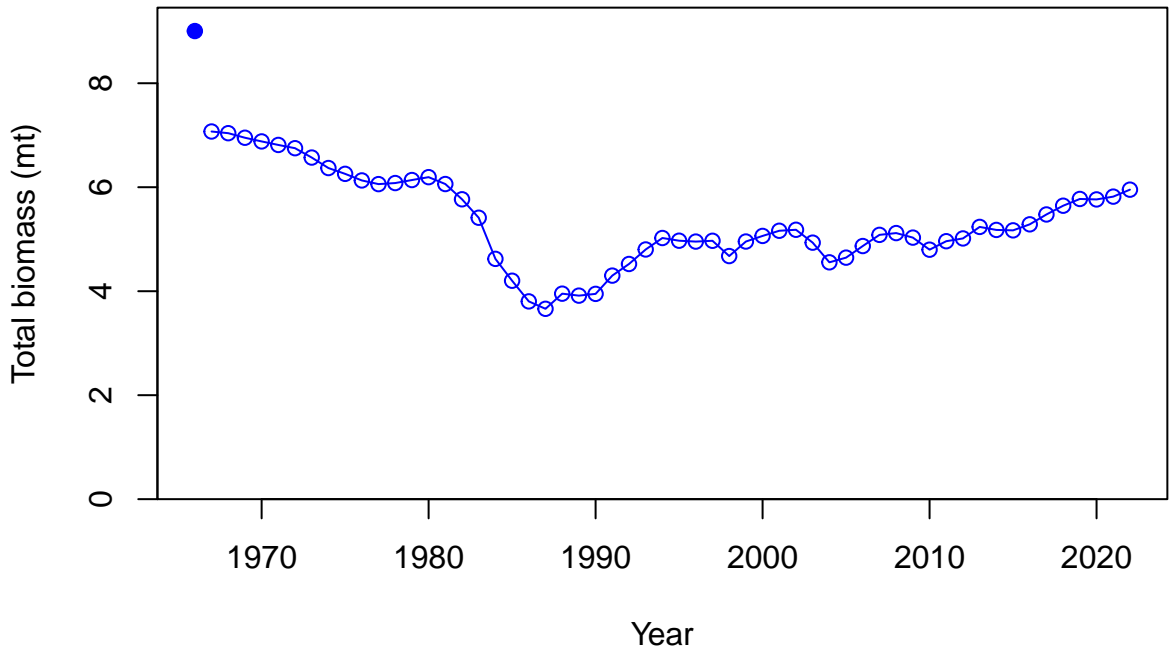


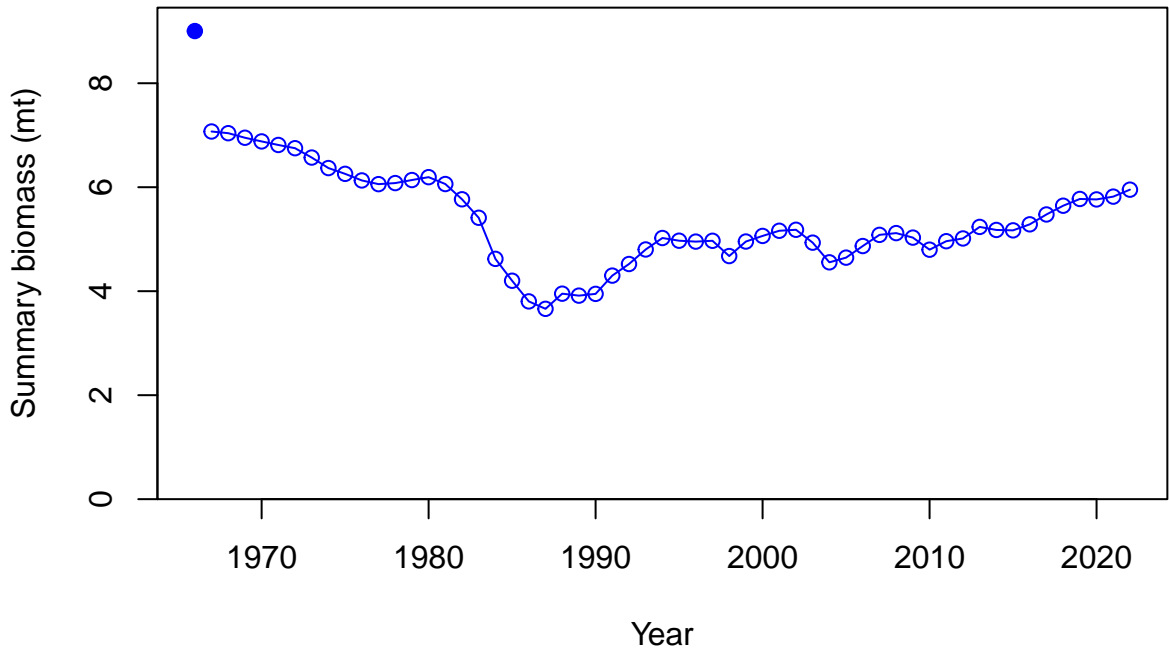
Relative spawning biomass: B/B_{MSY}



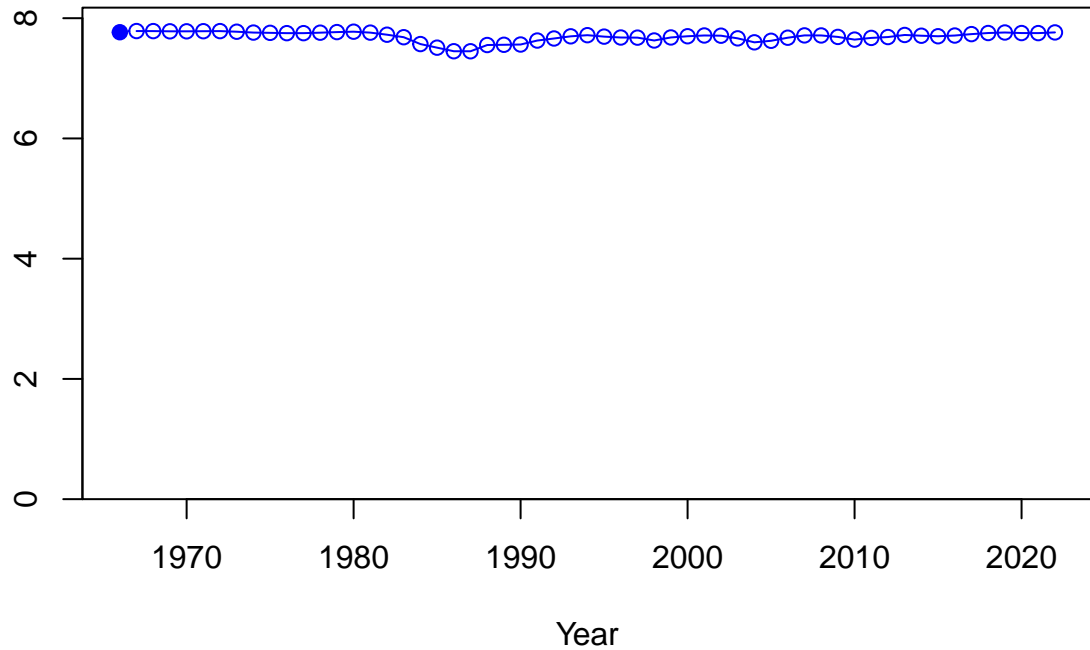
Relative spawning biomass: B/B_{MSY}



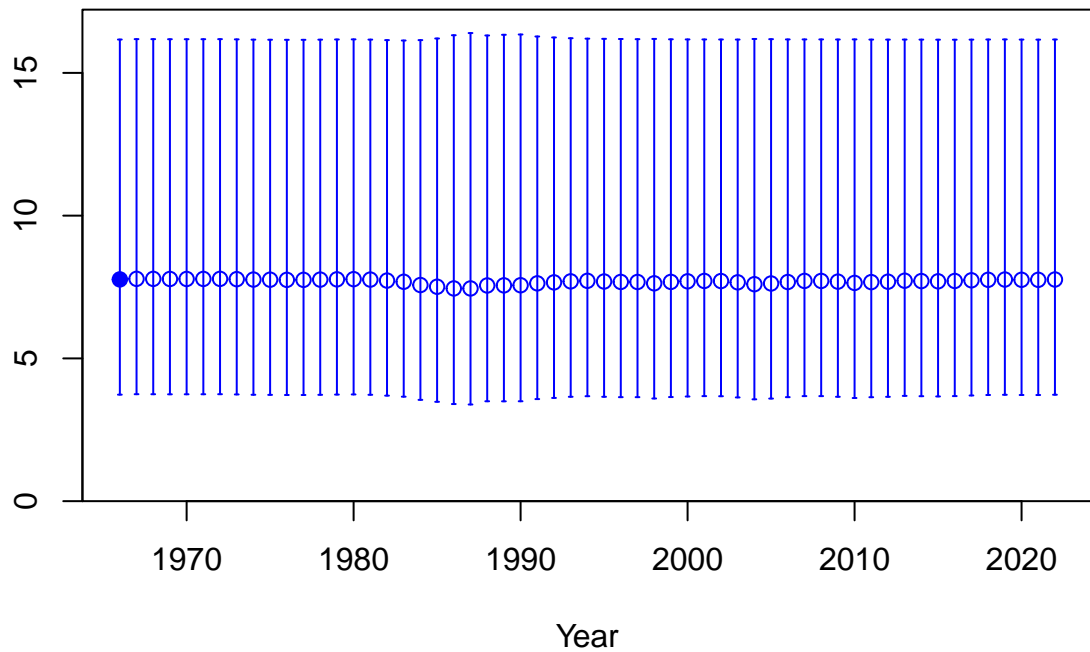




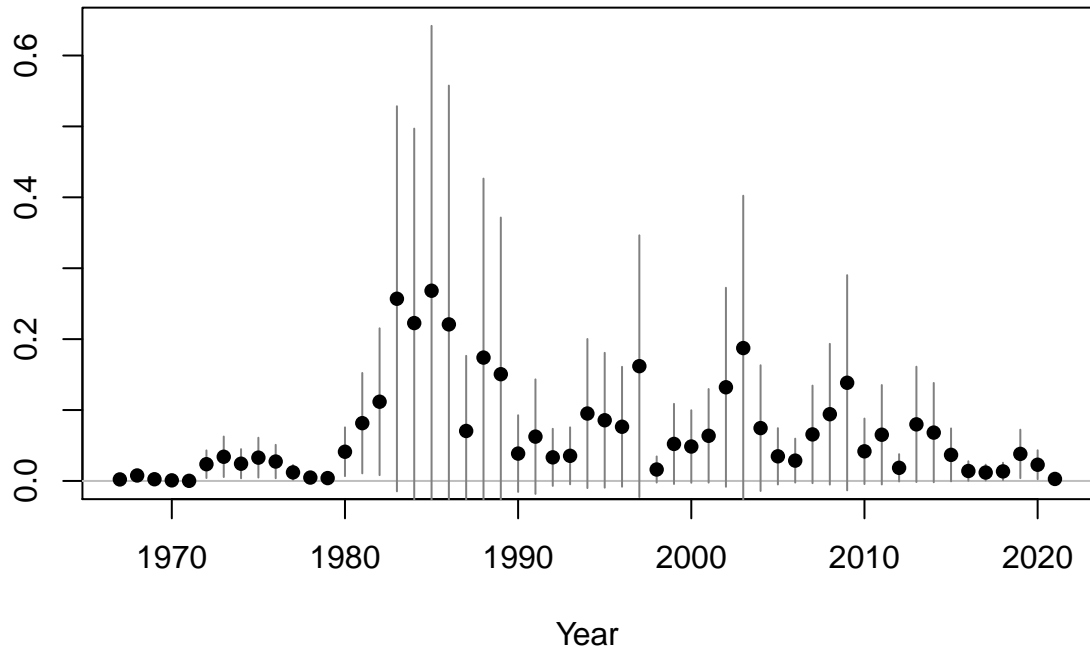
Age-0 recruits (1,000s)

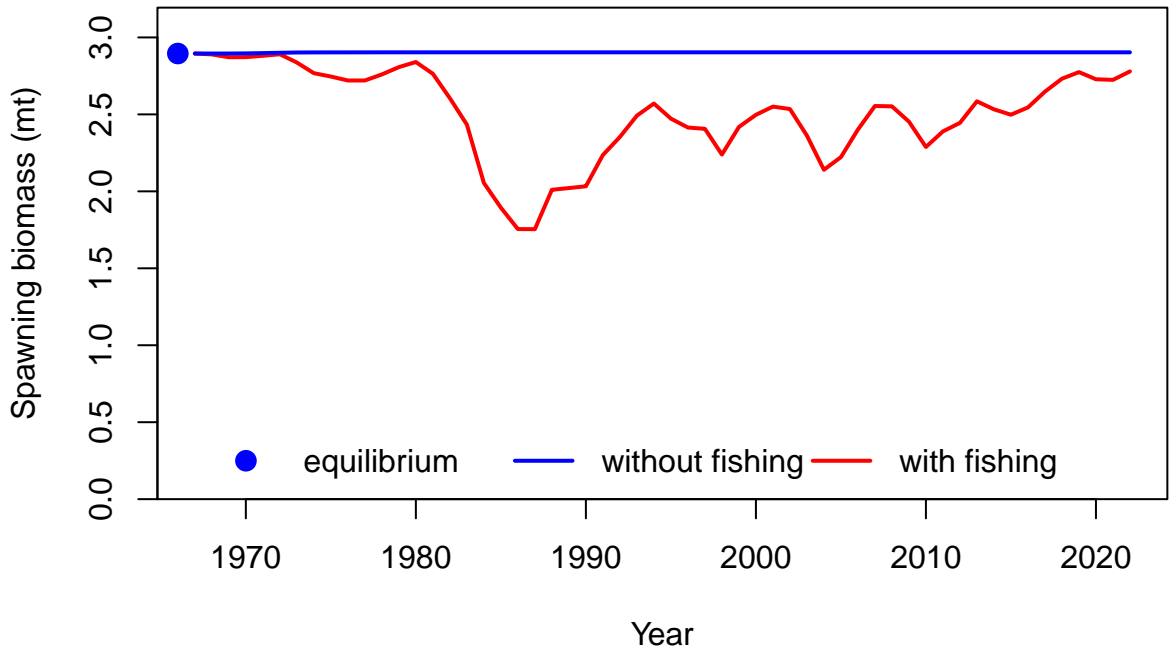


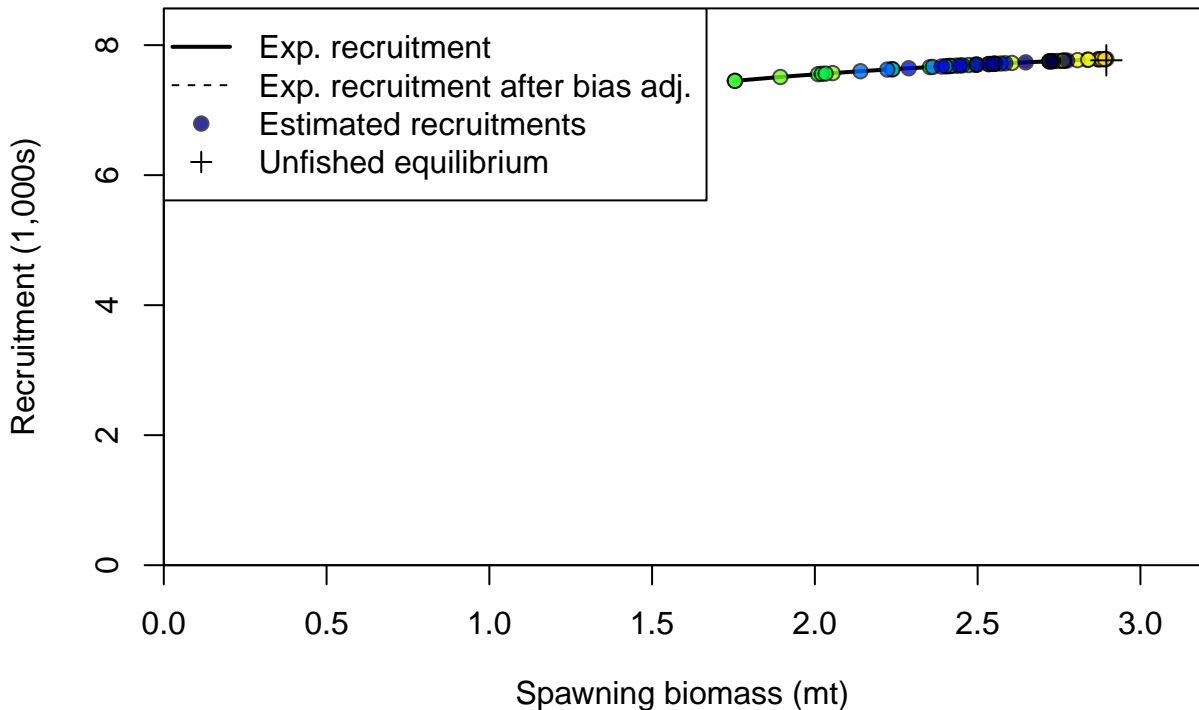
Age-0 recruits (1,000s)

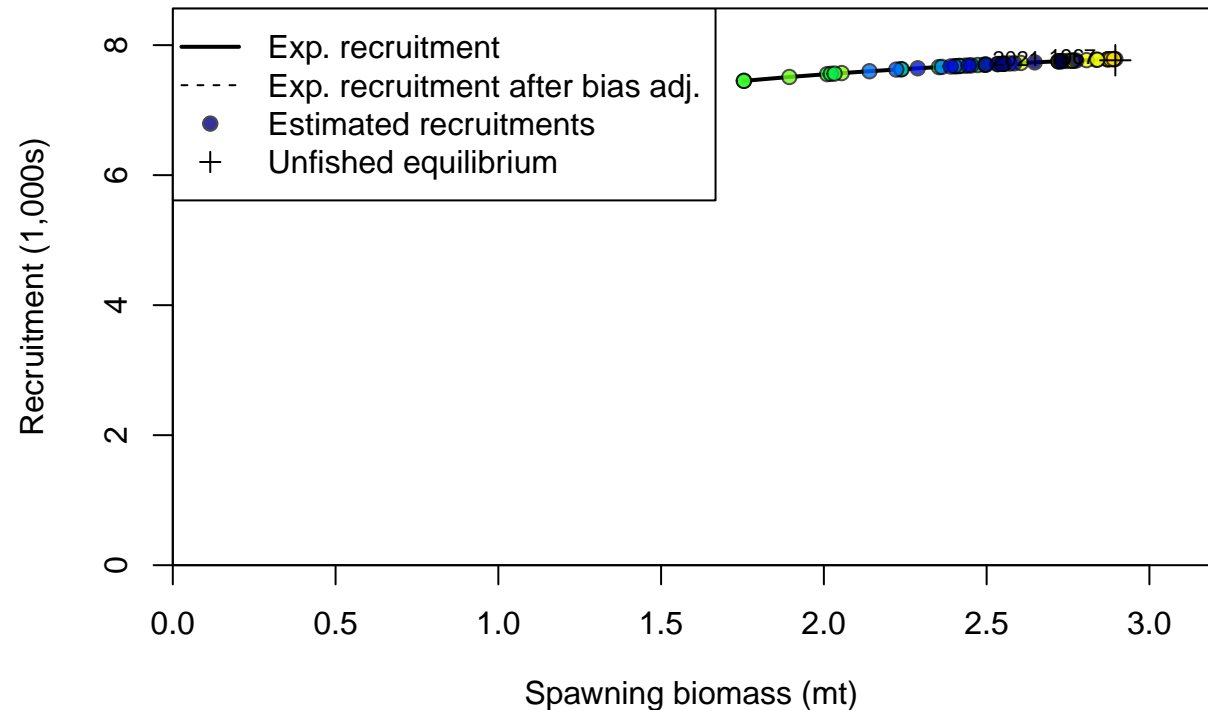


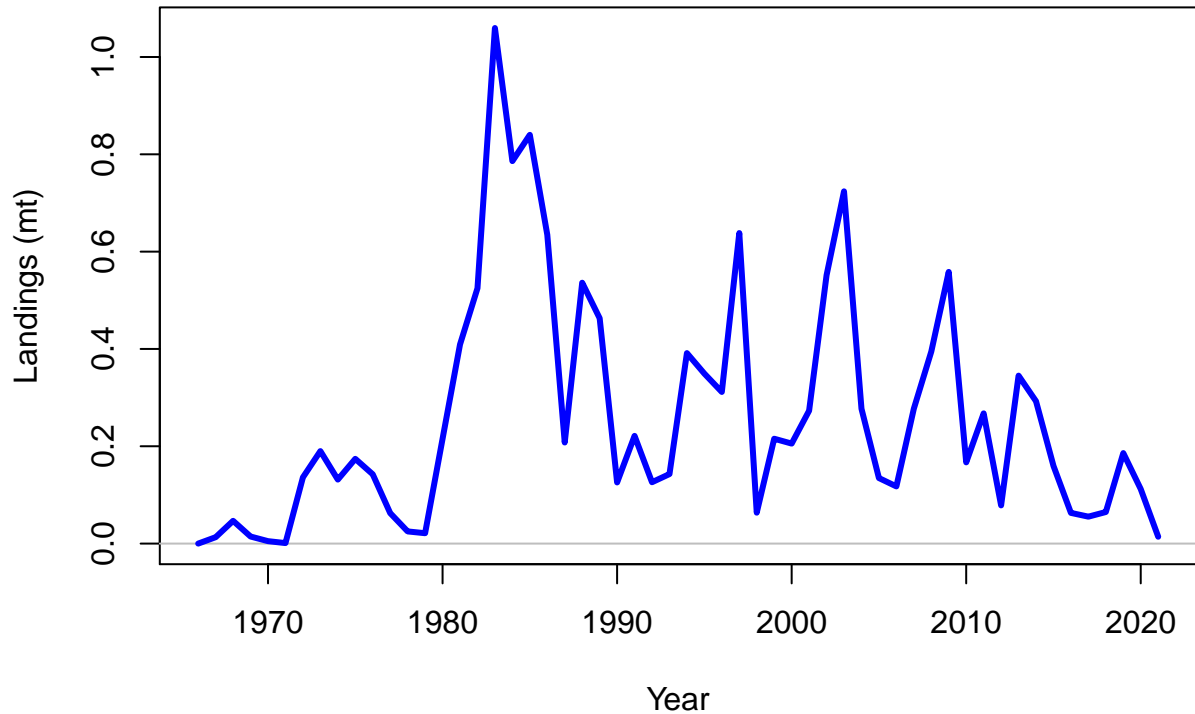
Summary Fishing Mortality

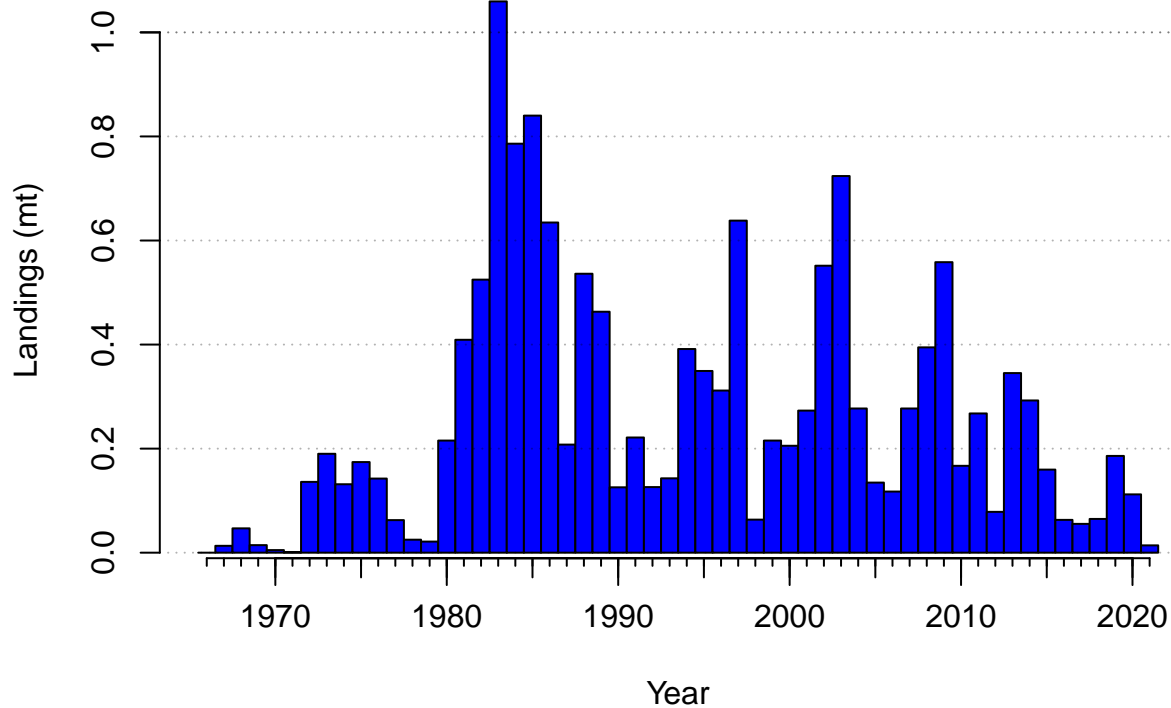


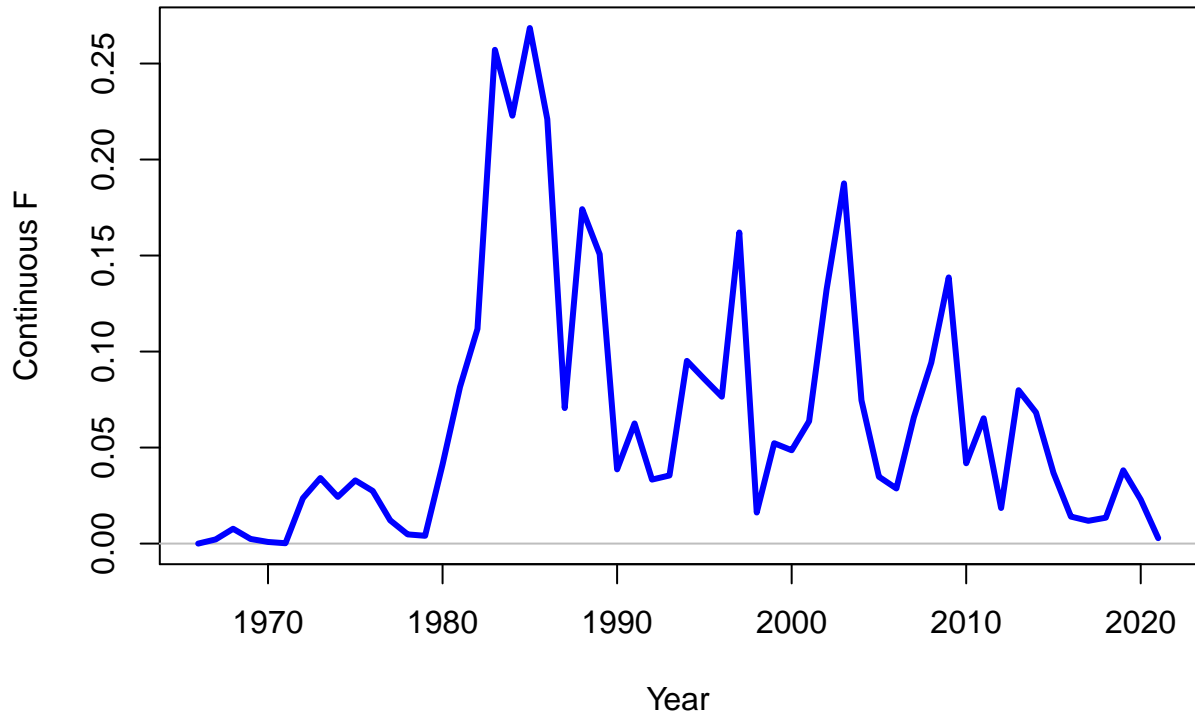




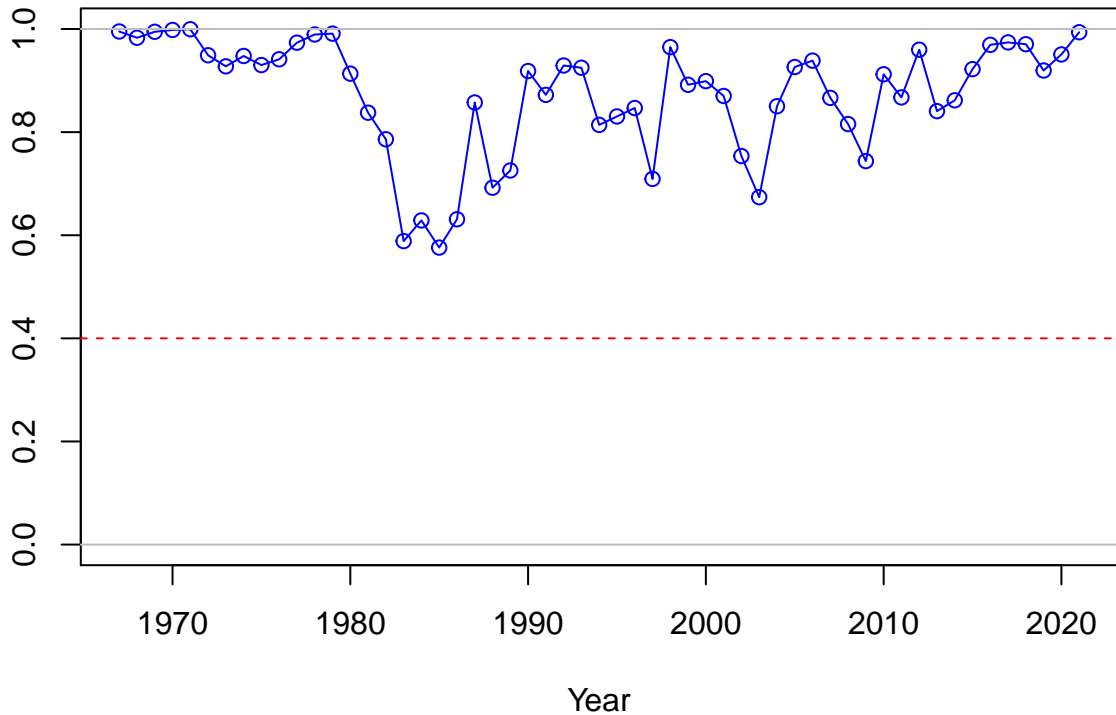




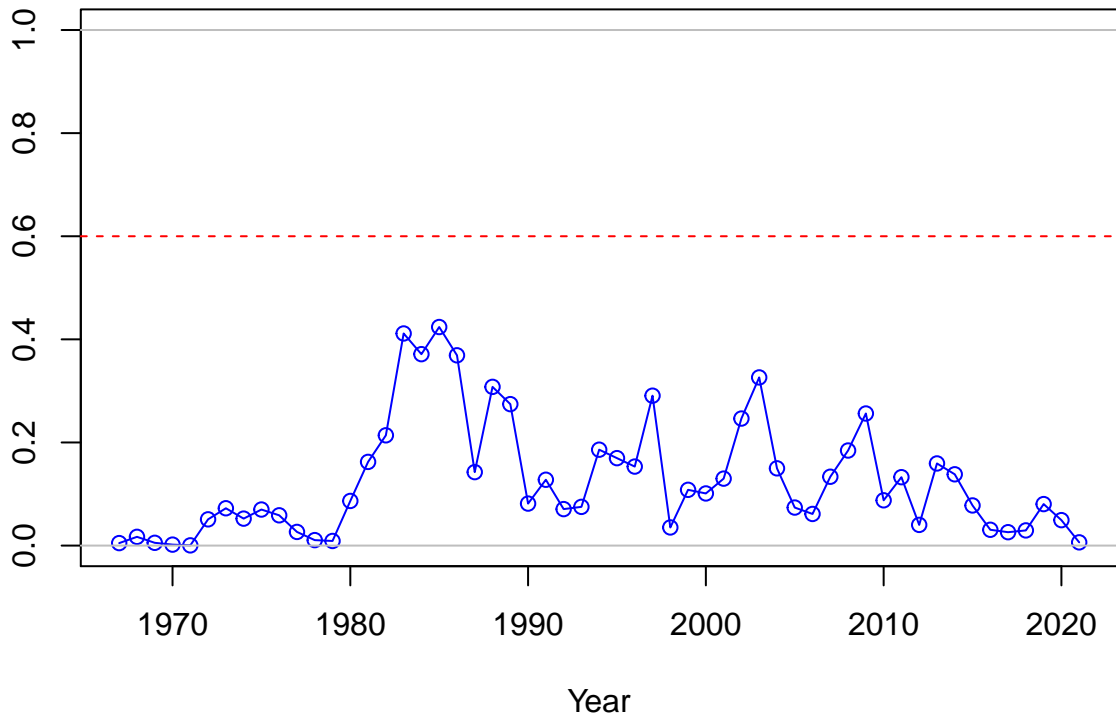




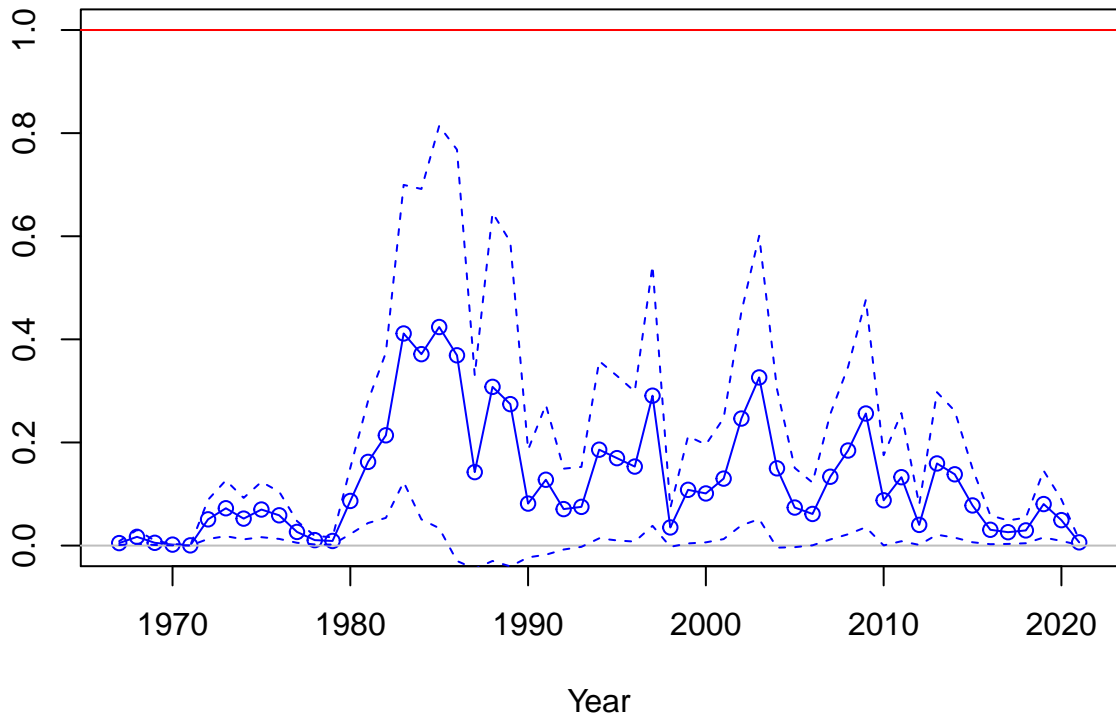
SPR



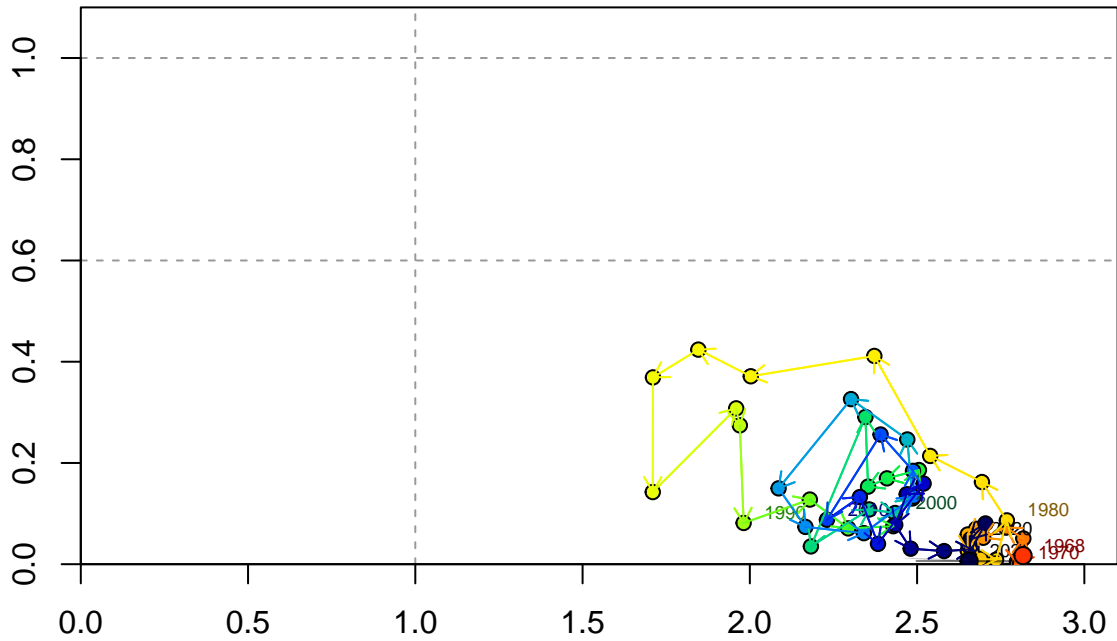
1-SPR



Fishing intensity: 1-SPR



Fishing intensity: 1-SPR



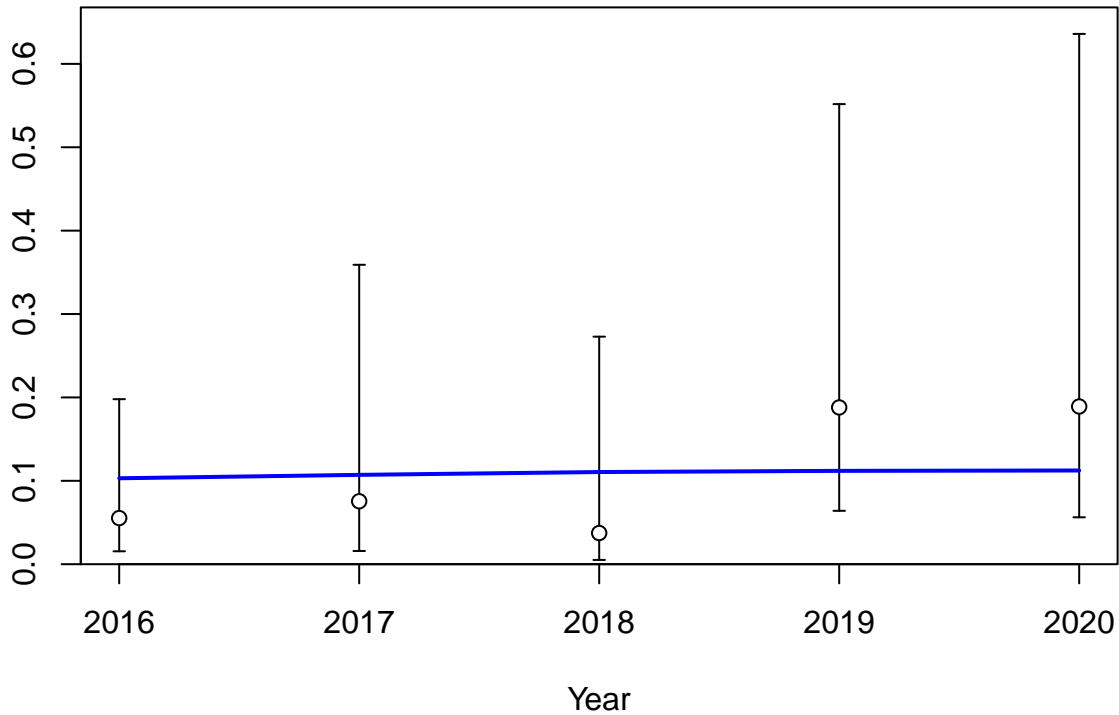
Relative spawning output: B/B_{MSY}

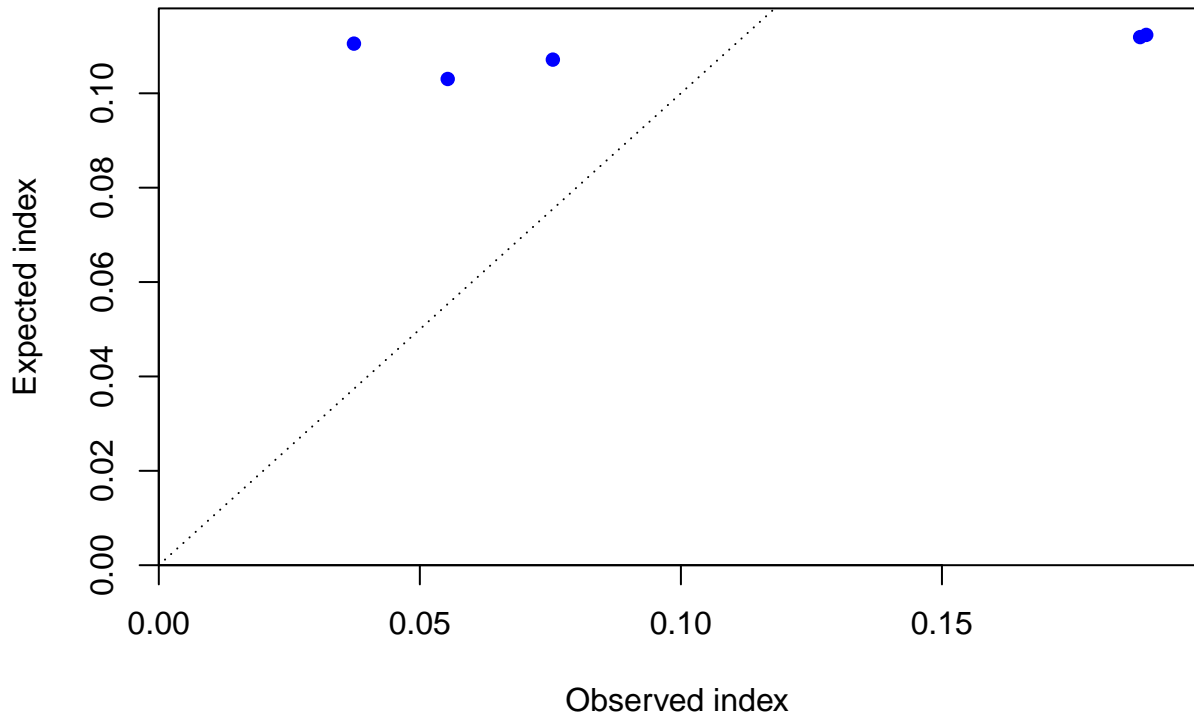
Index



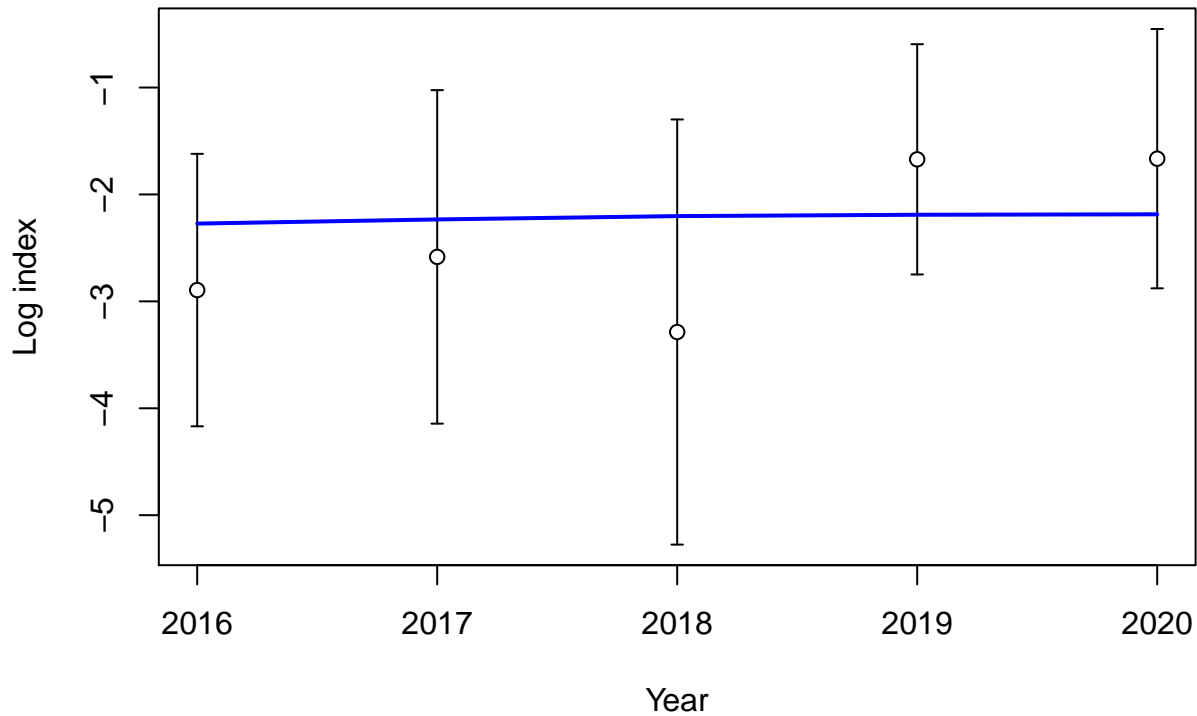
Year

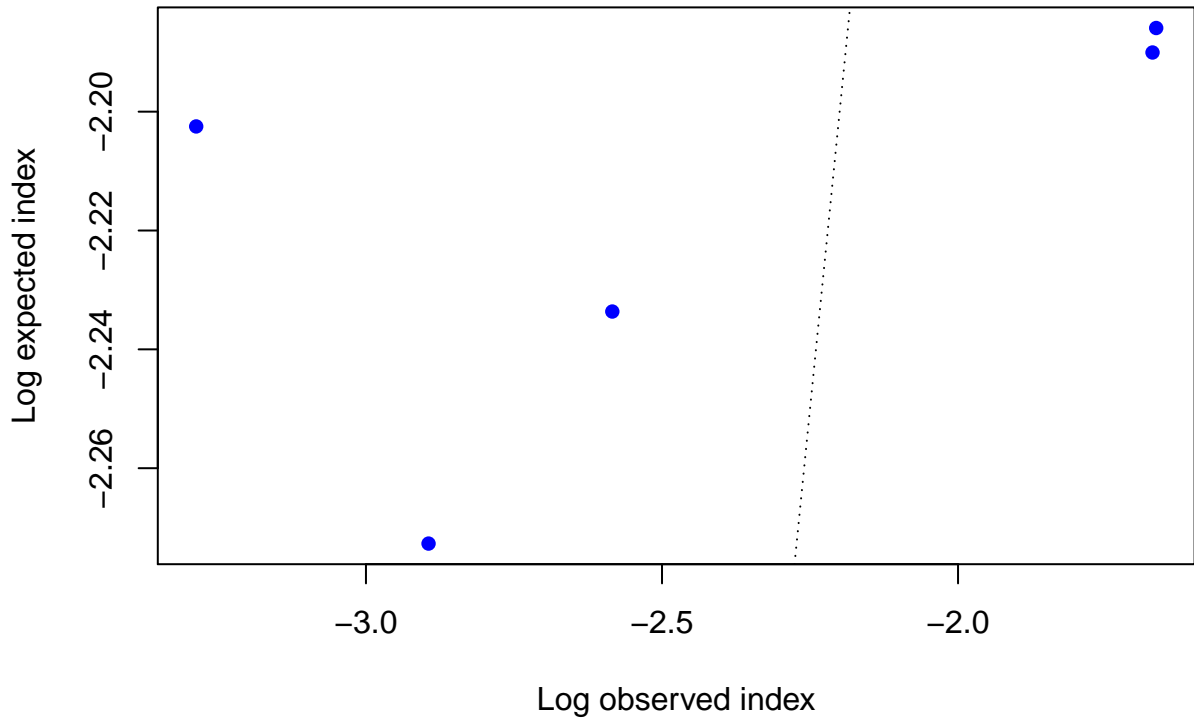
Index



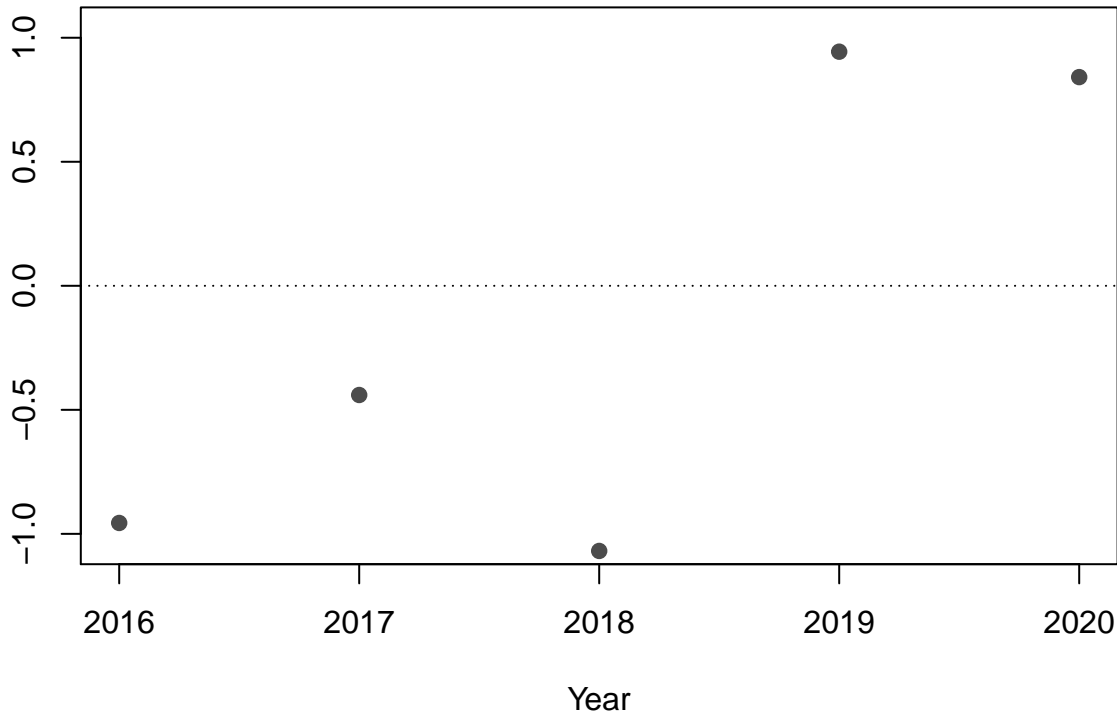




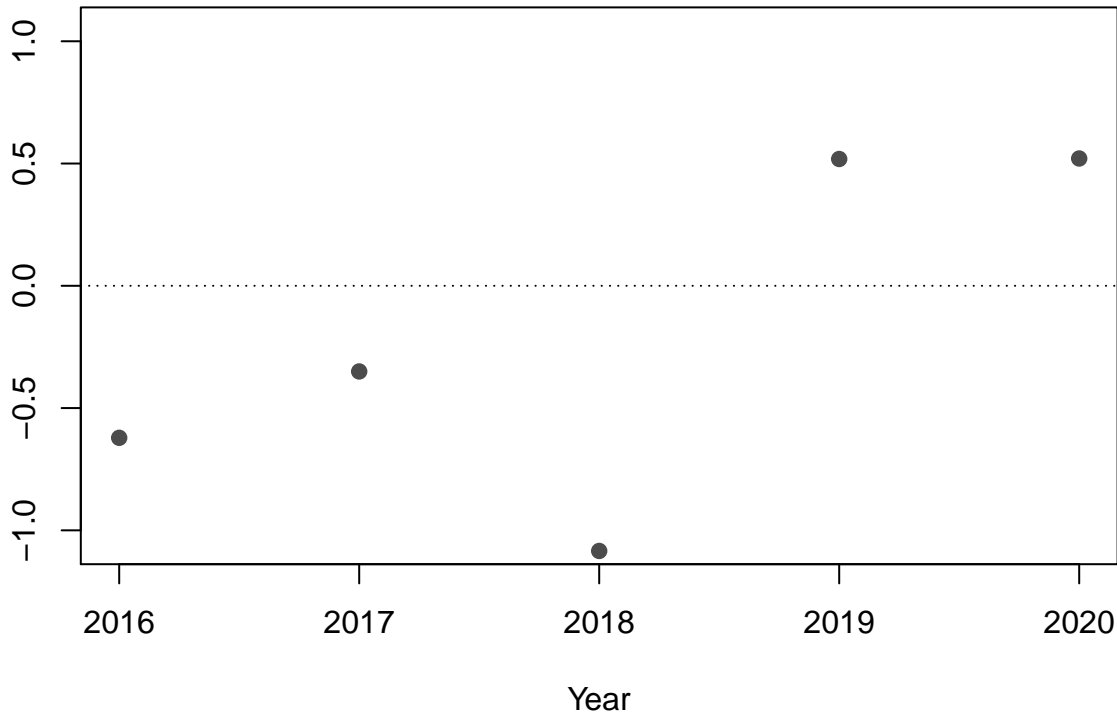




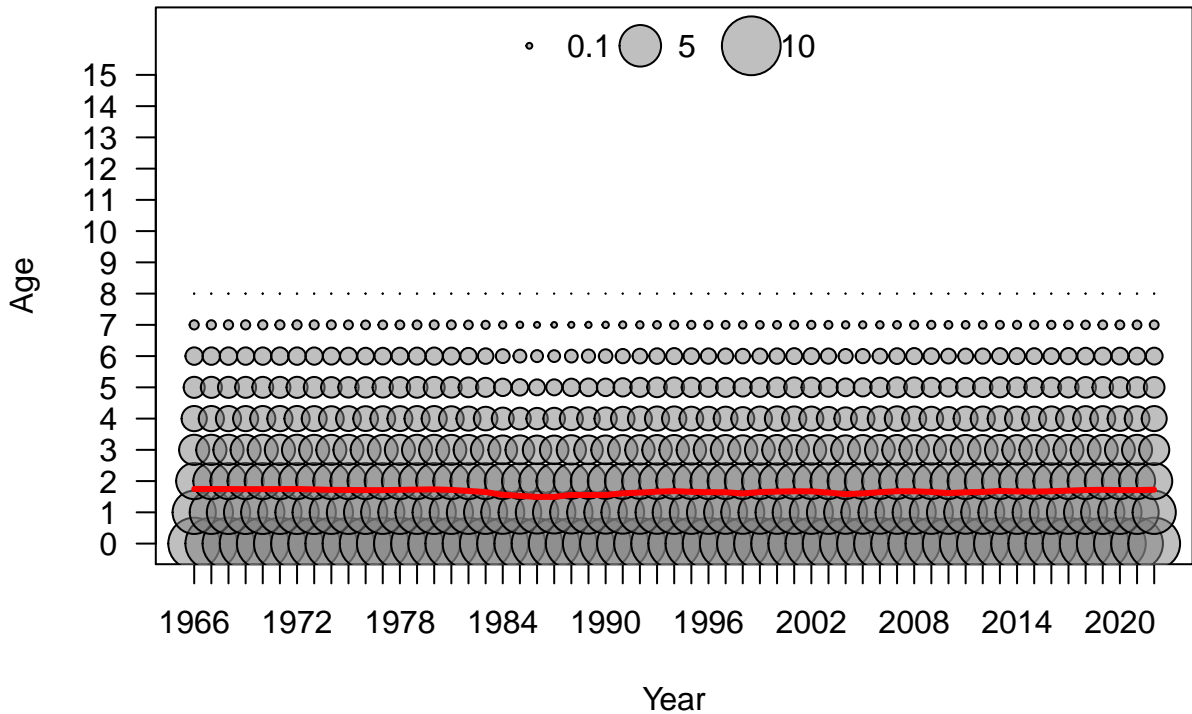
Residual

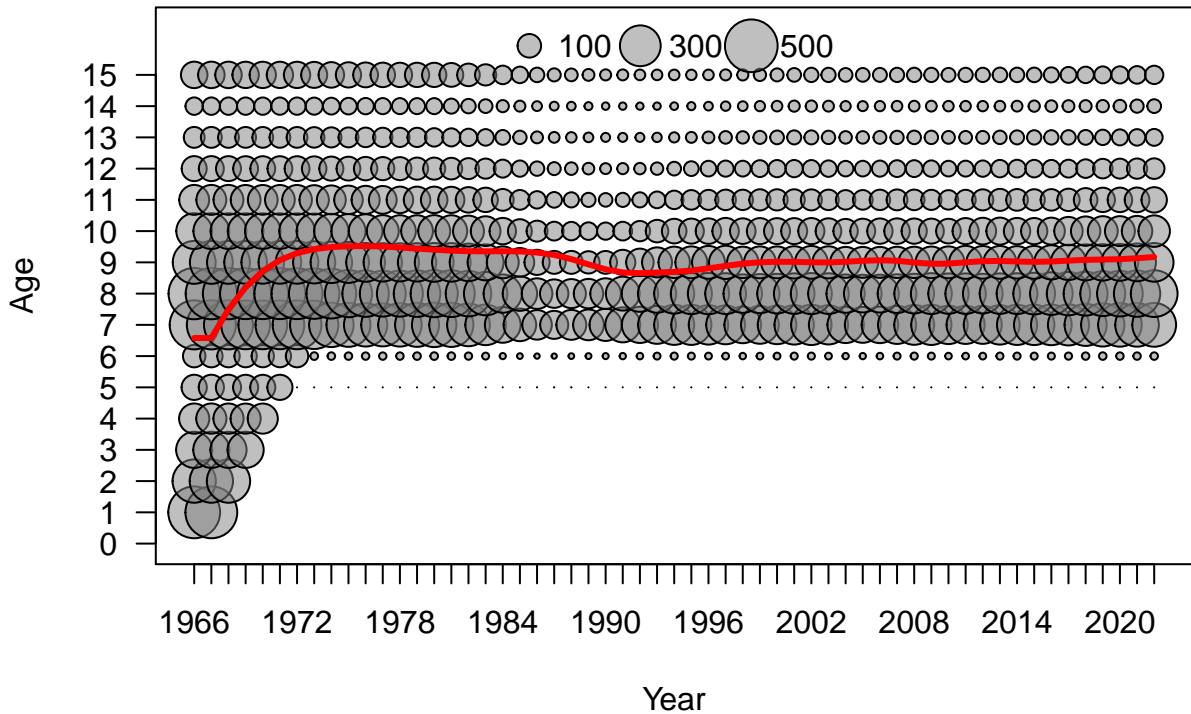


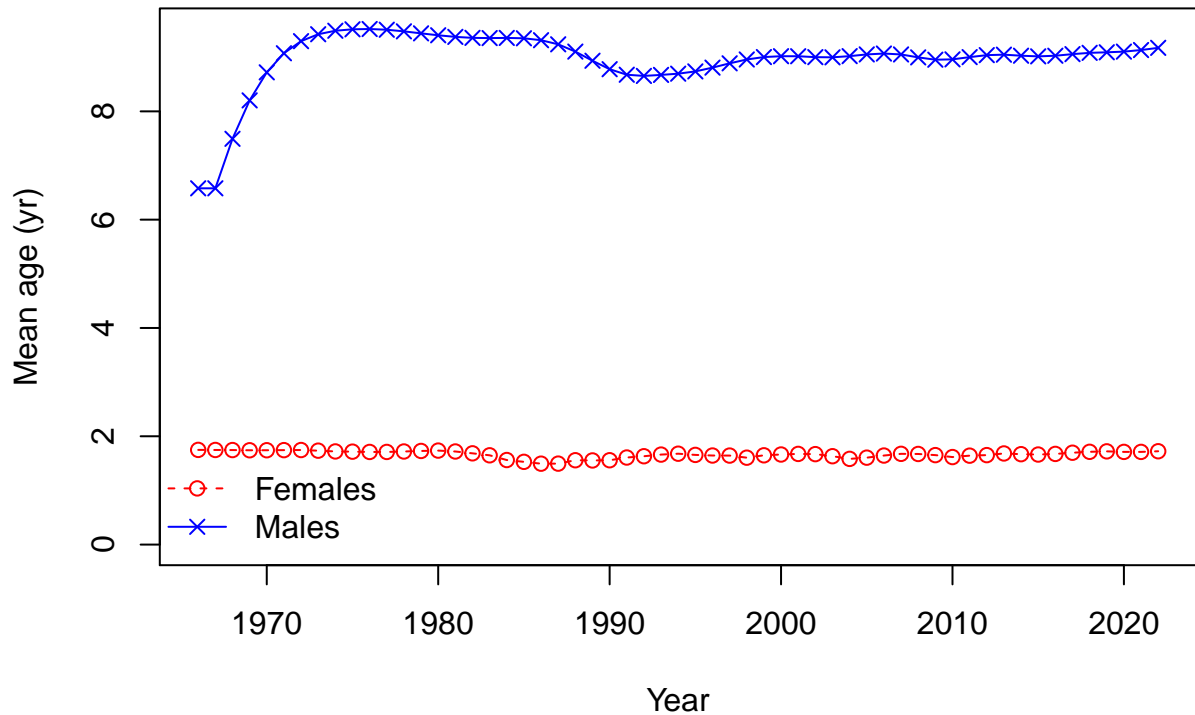
Deviation



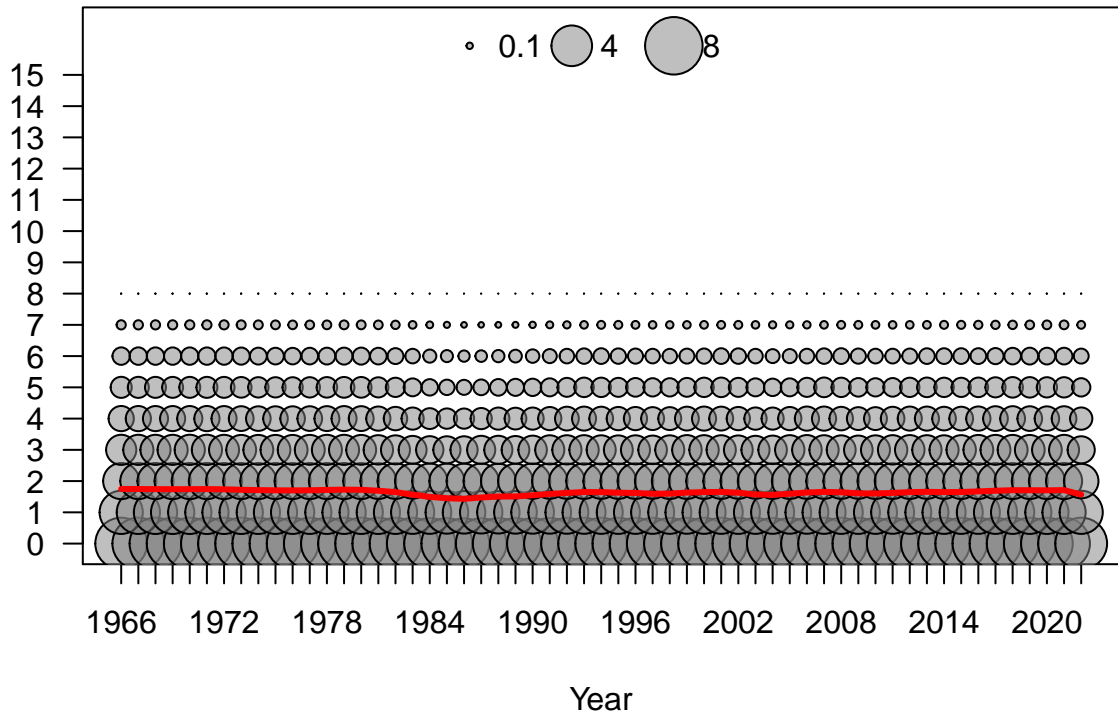


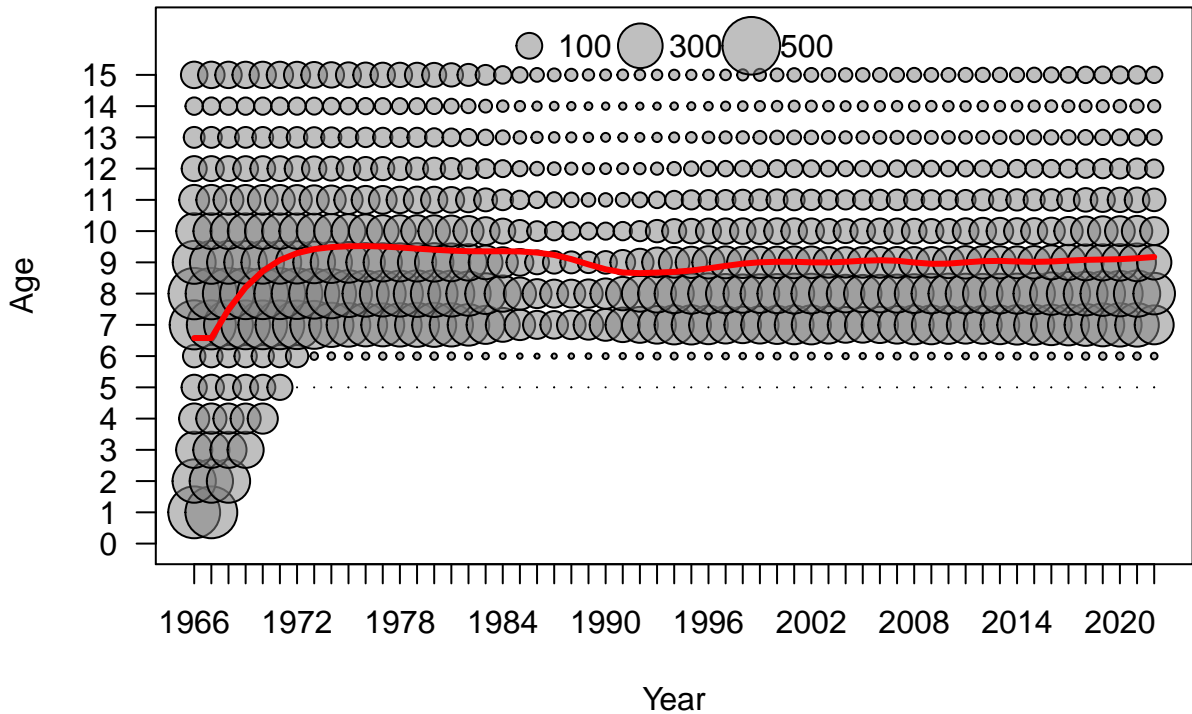


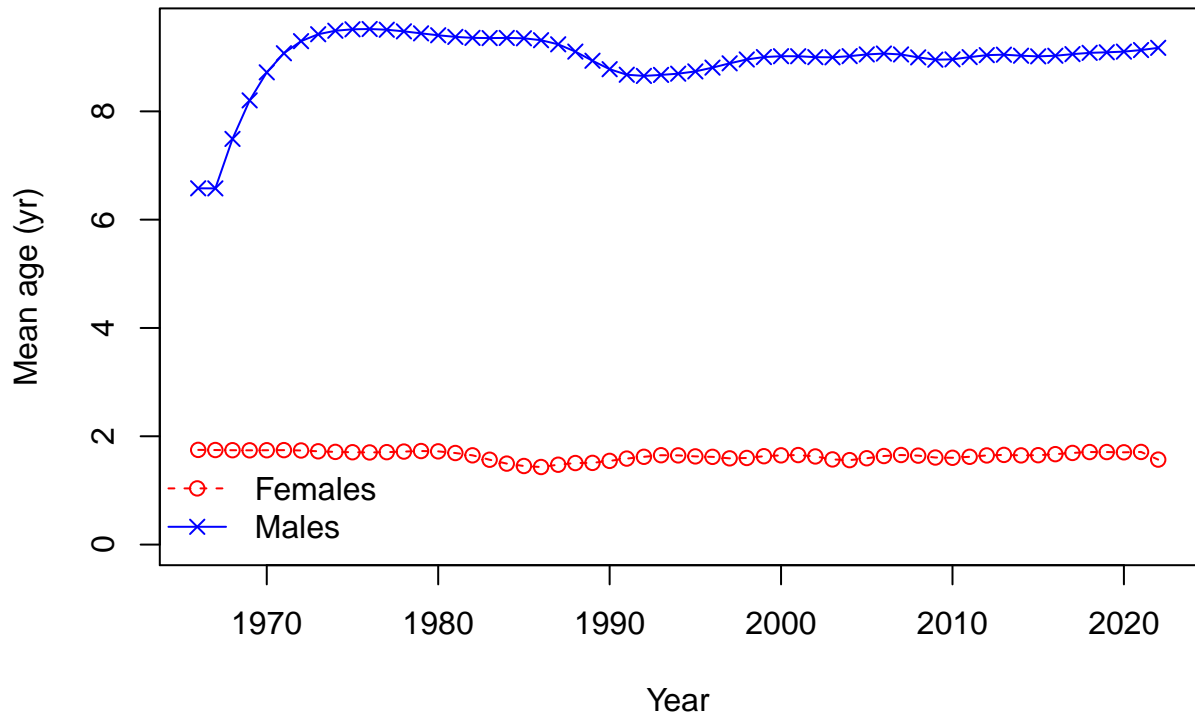




Age







Age

14
12
10
8
6
4
2
0

1970

1980

1990

2000

2010

2020

Year

1

0.2

0.6

0.8

0.3

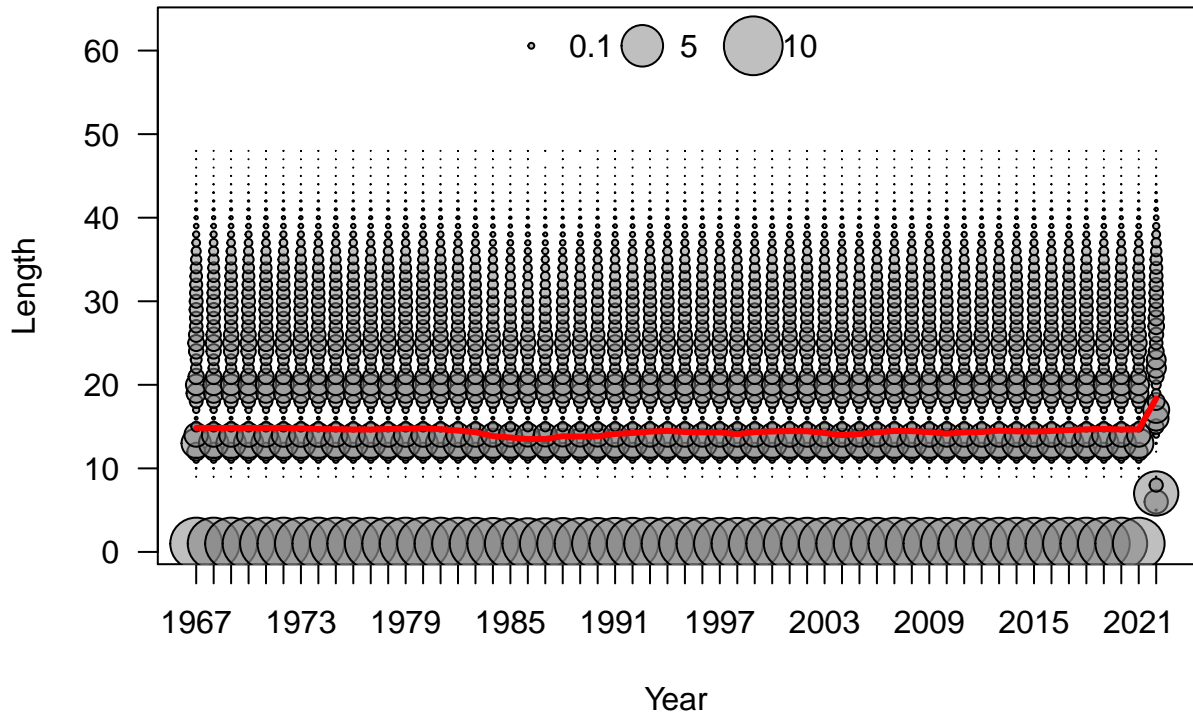
0.9

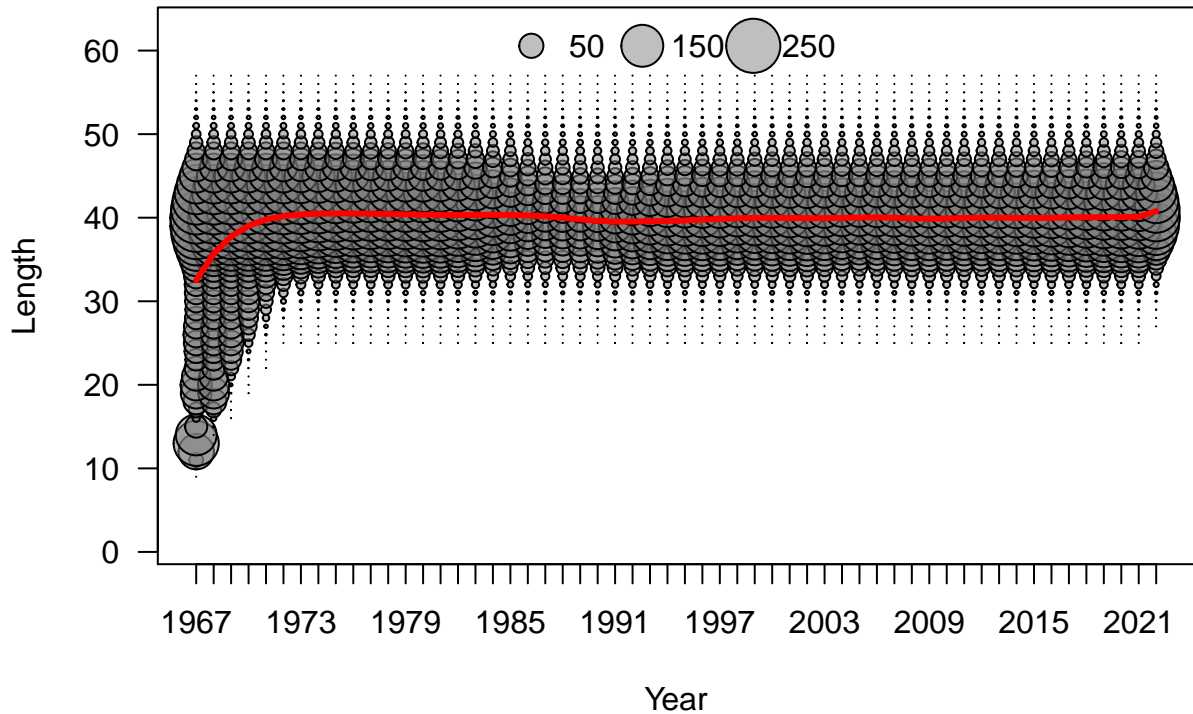
0.1

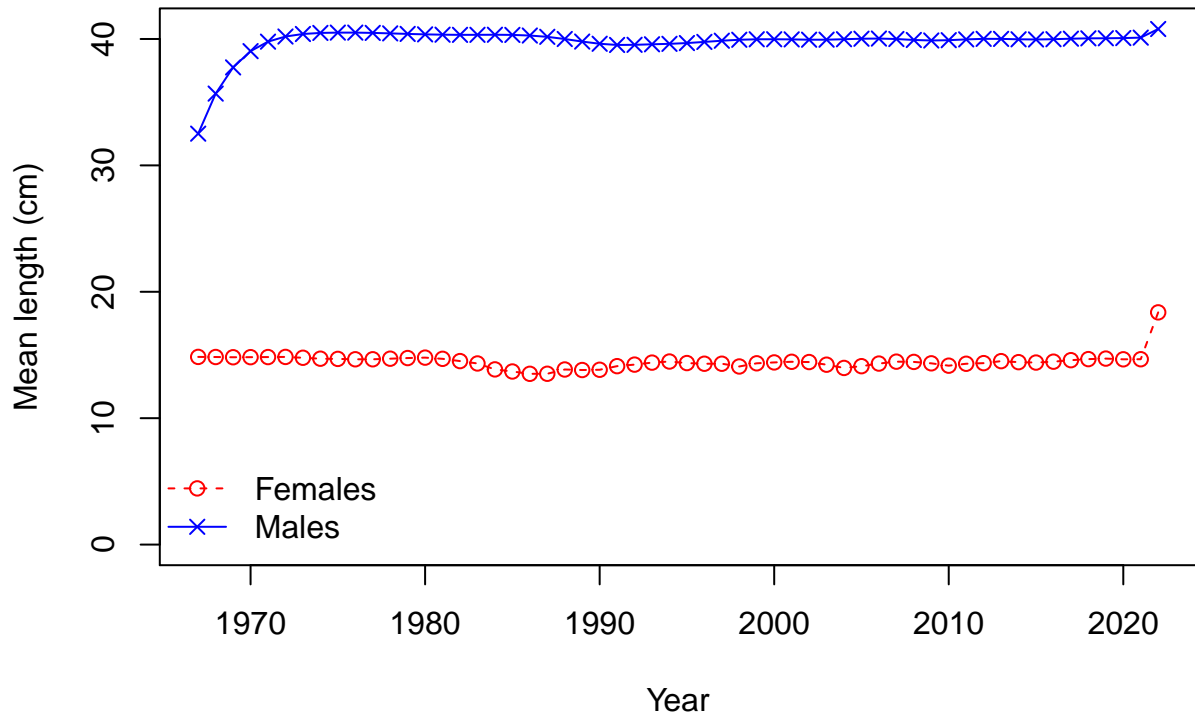
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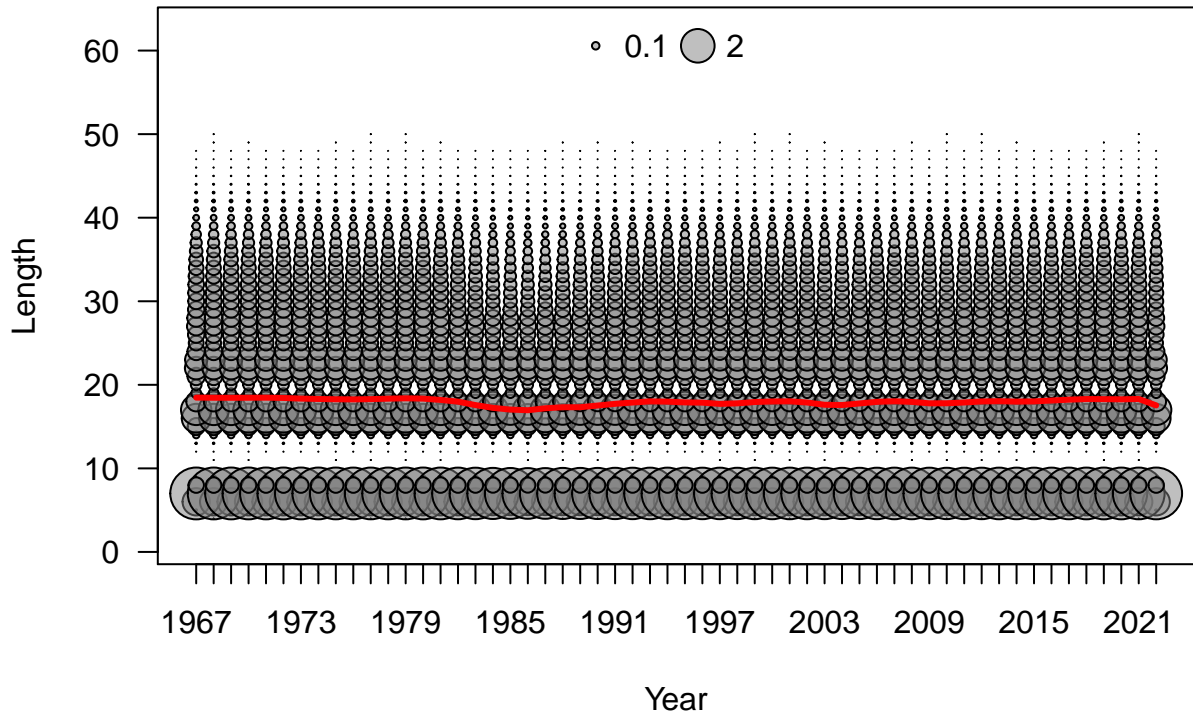
0.7

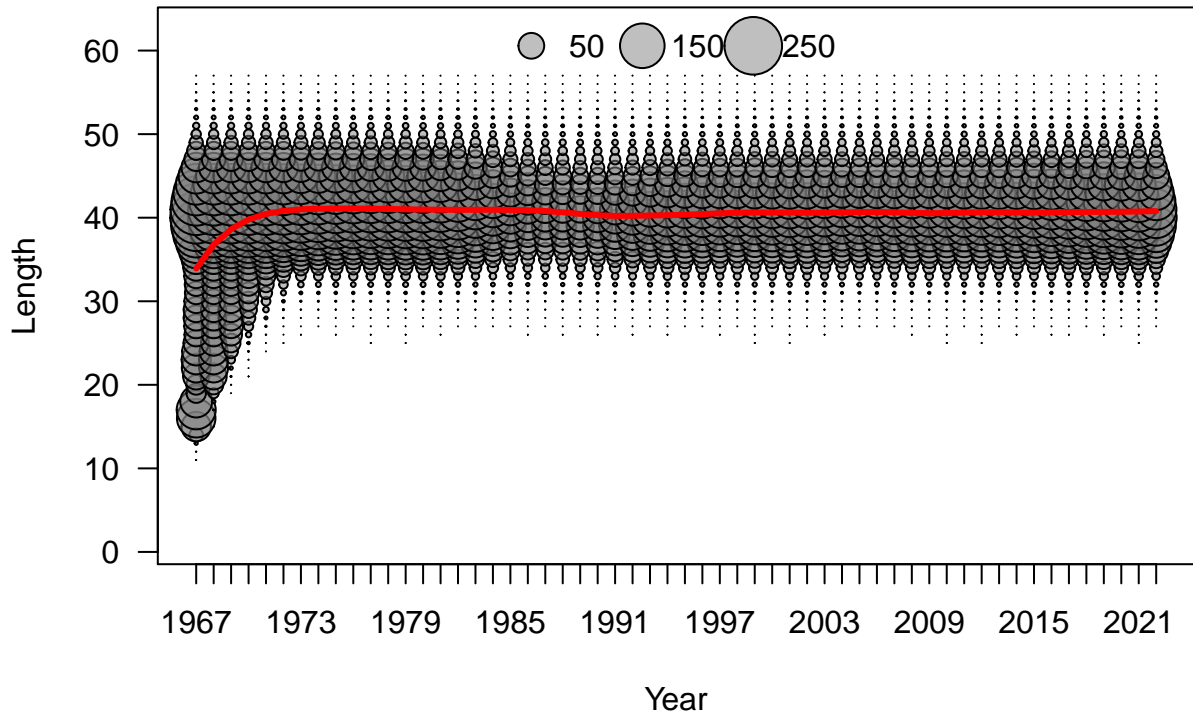
0.5

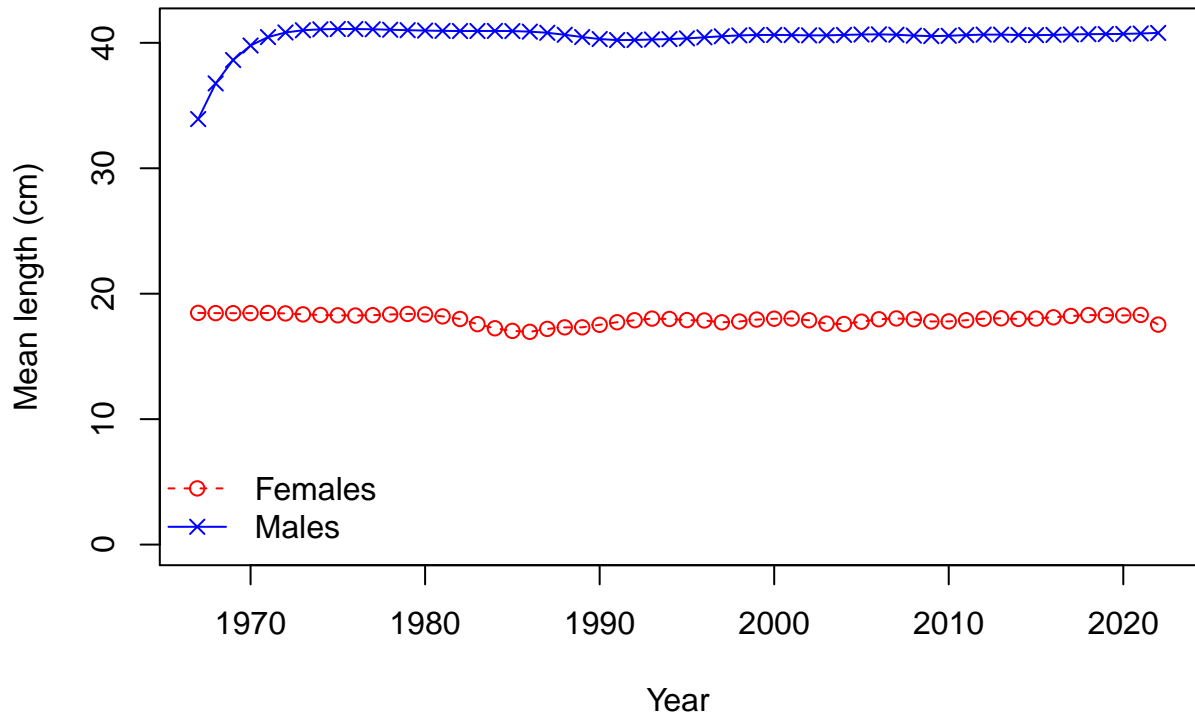


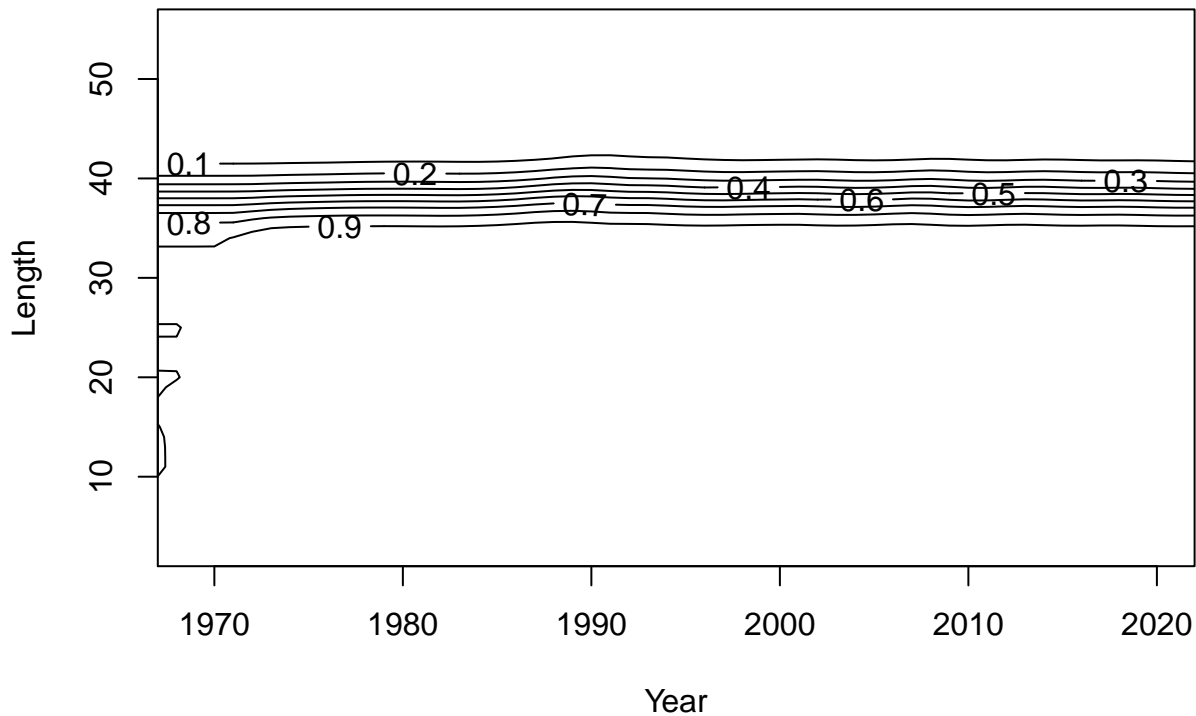


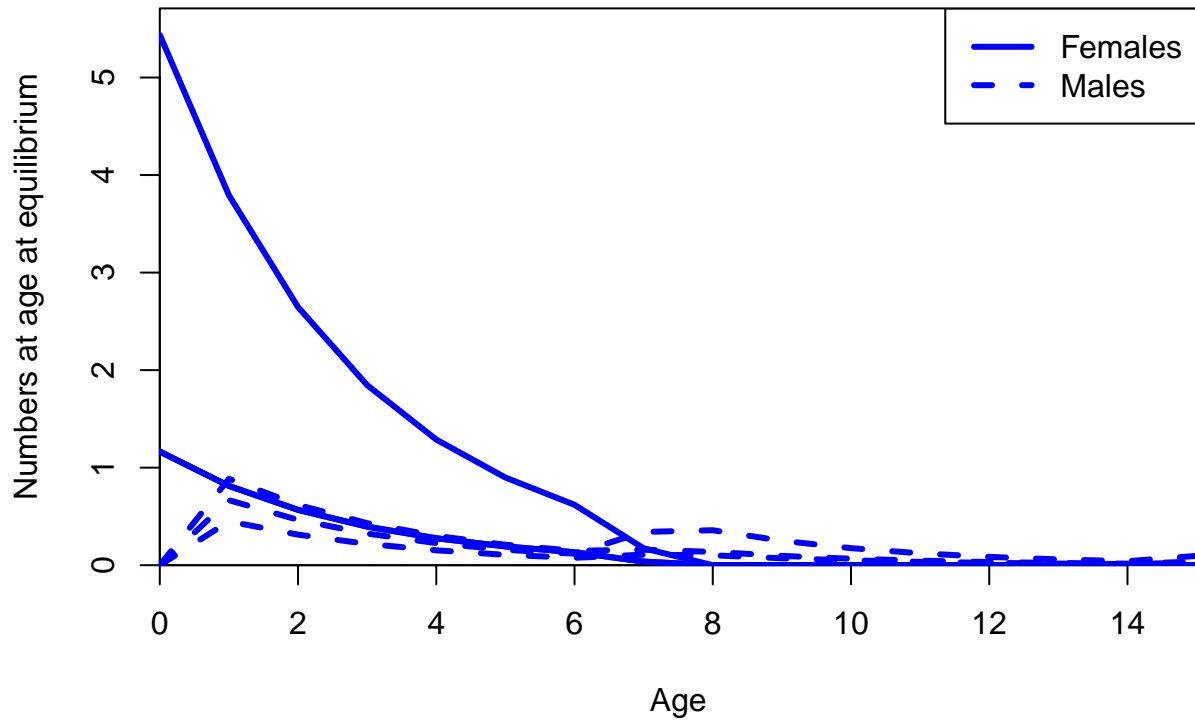






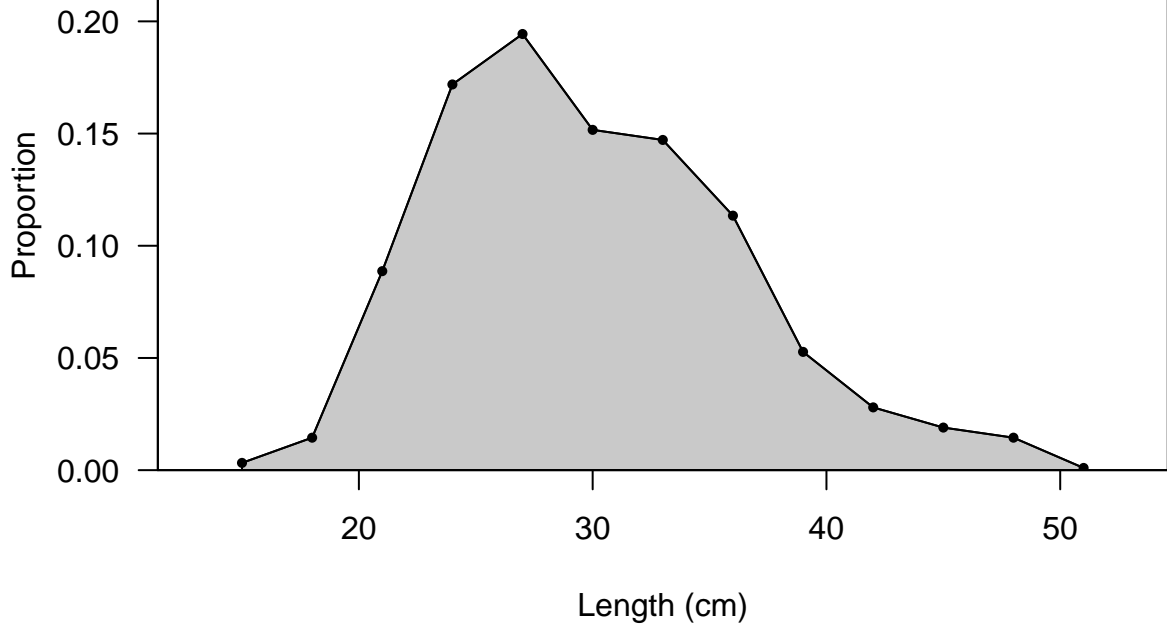


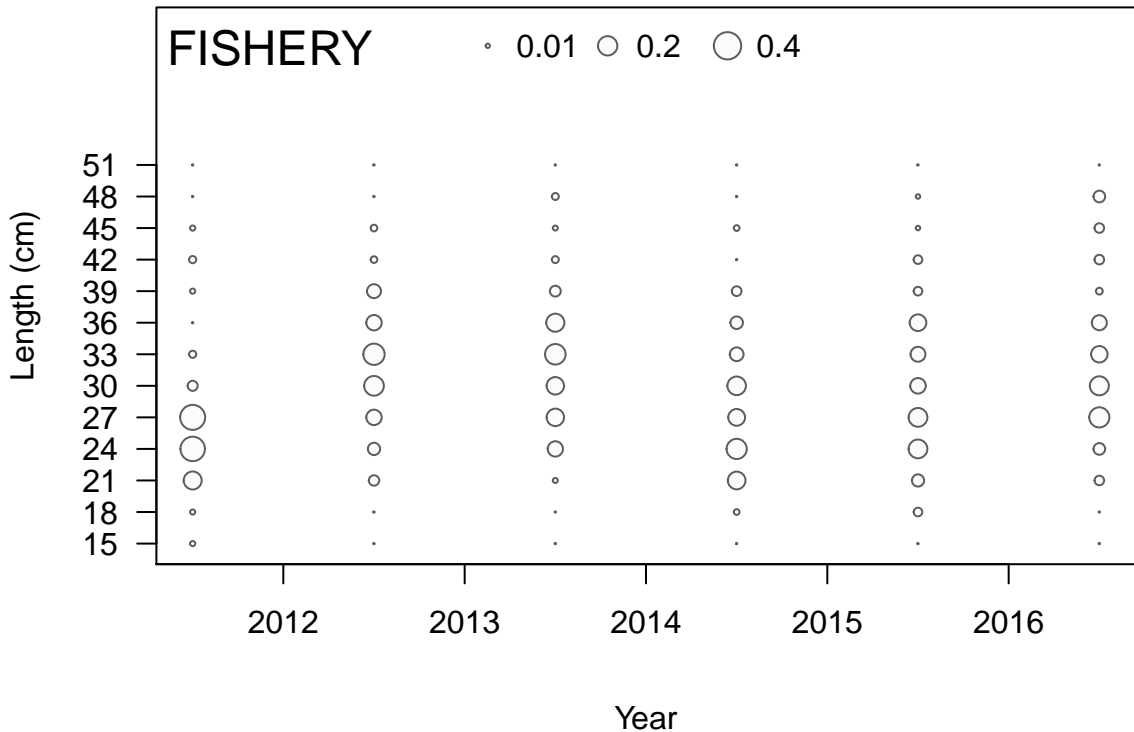




FISHERY

Sum of N input=368.8





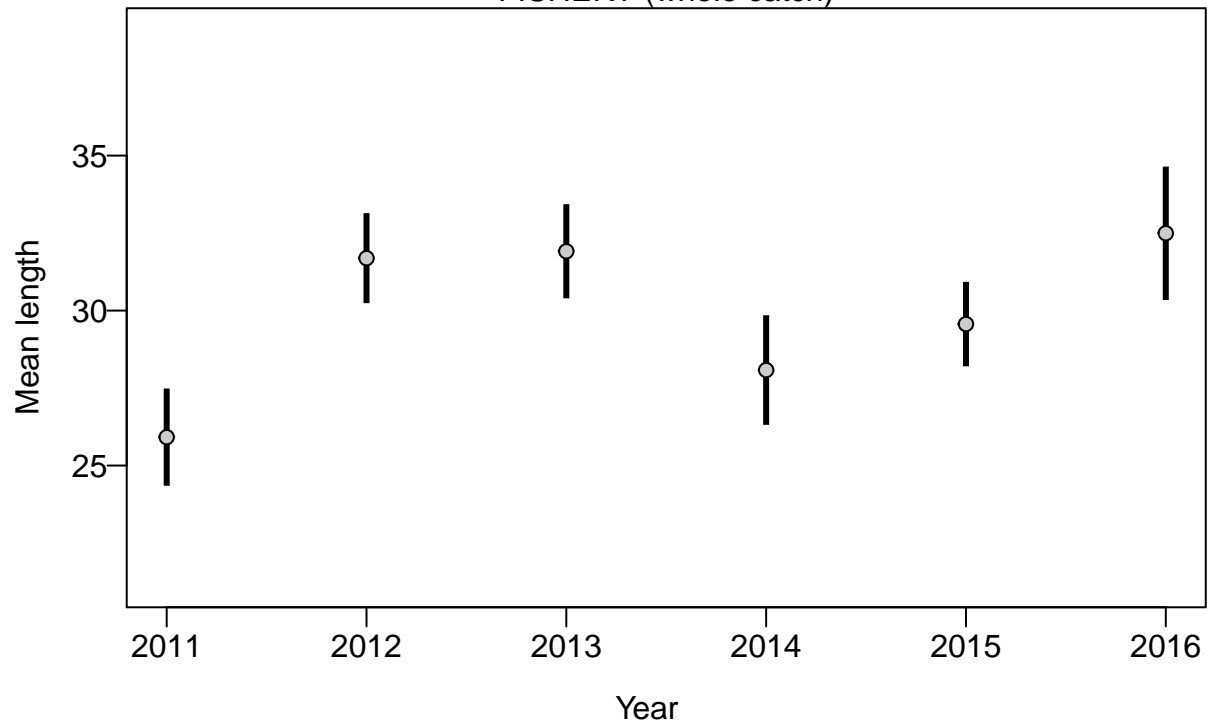
Proportion



Length (cm)

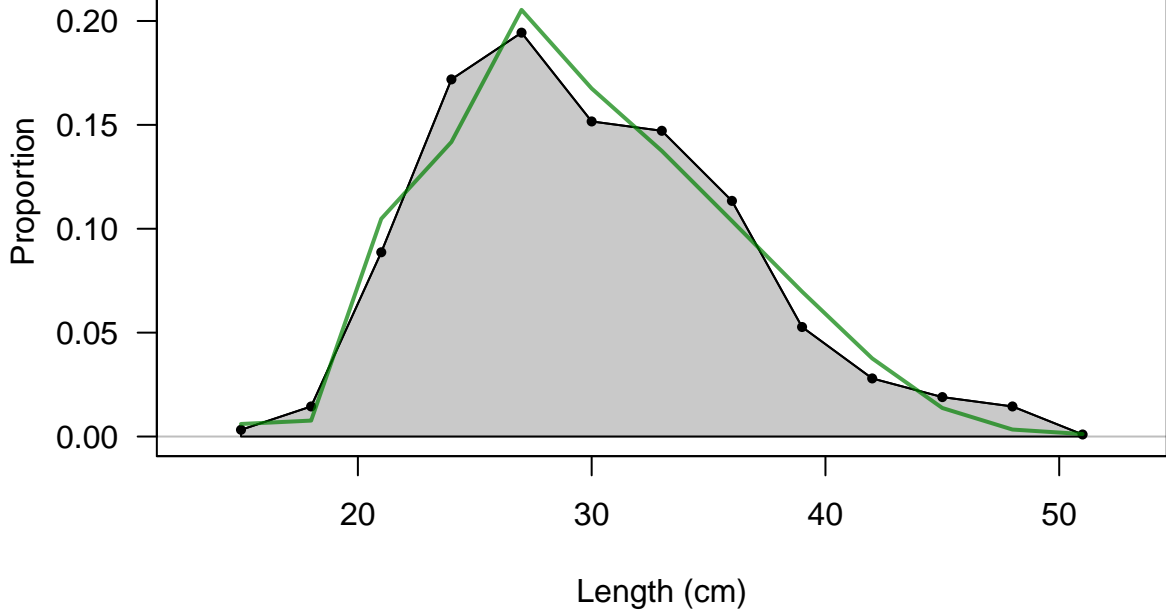


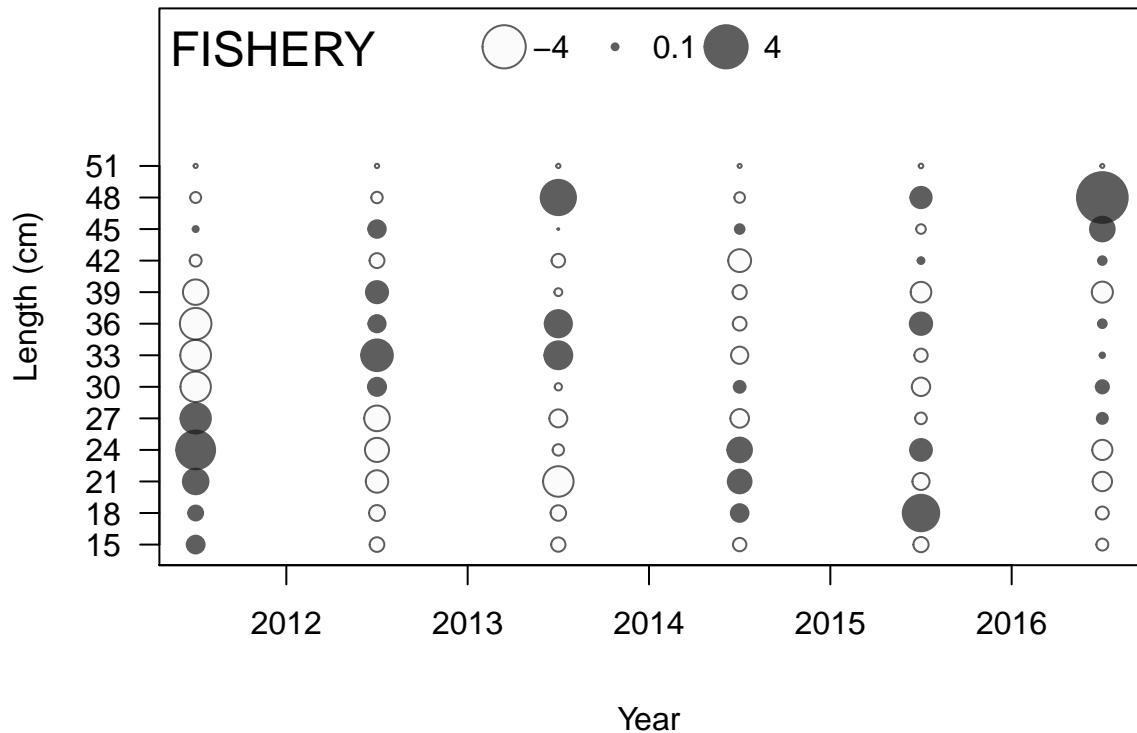
FISHERY (whole catch)



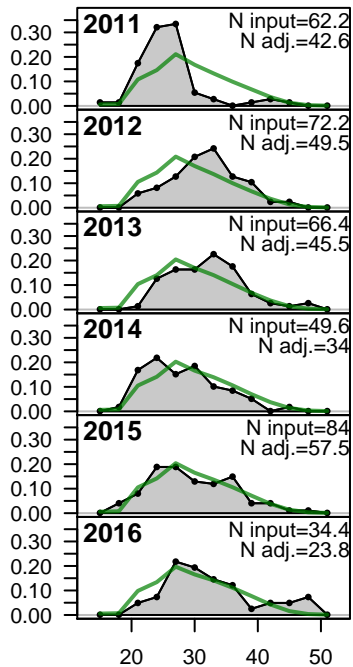
FISHERY

Sum of N input=368.8
Sum of N adj.=252.9

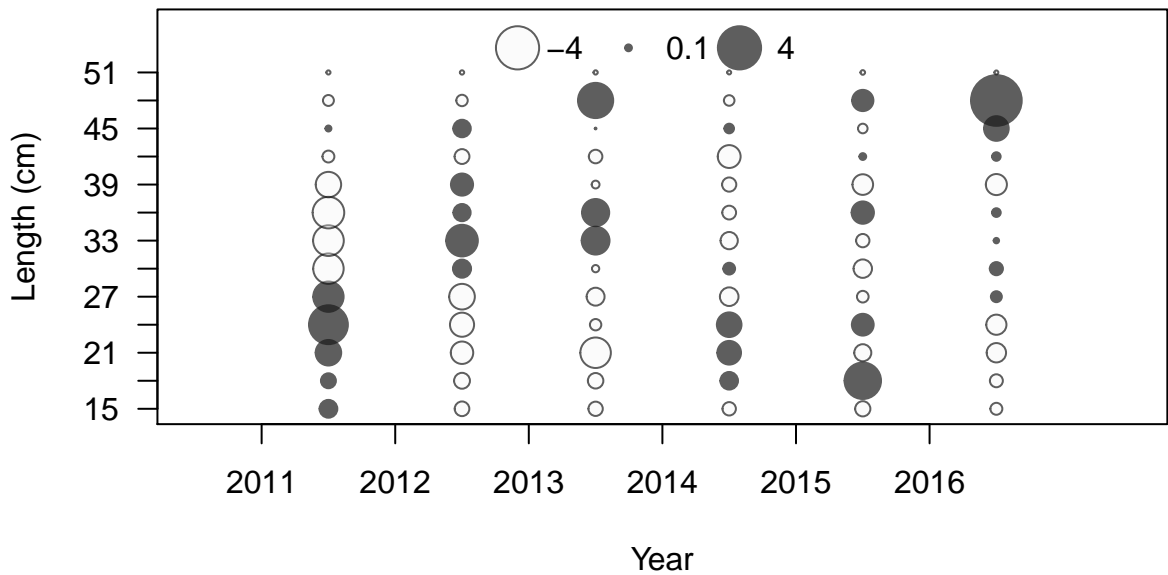




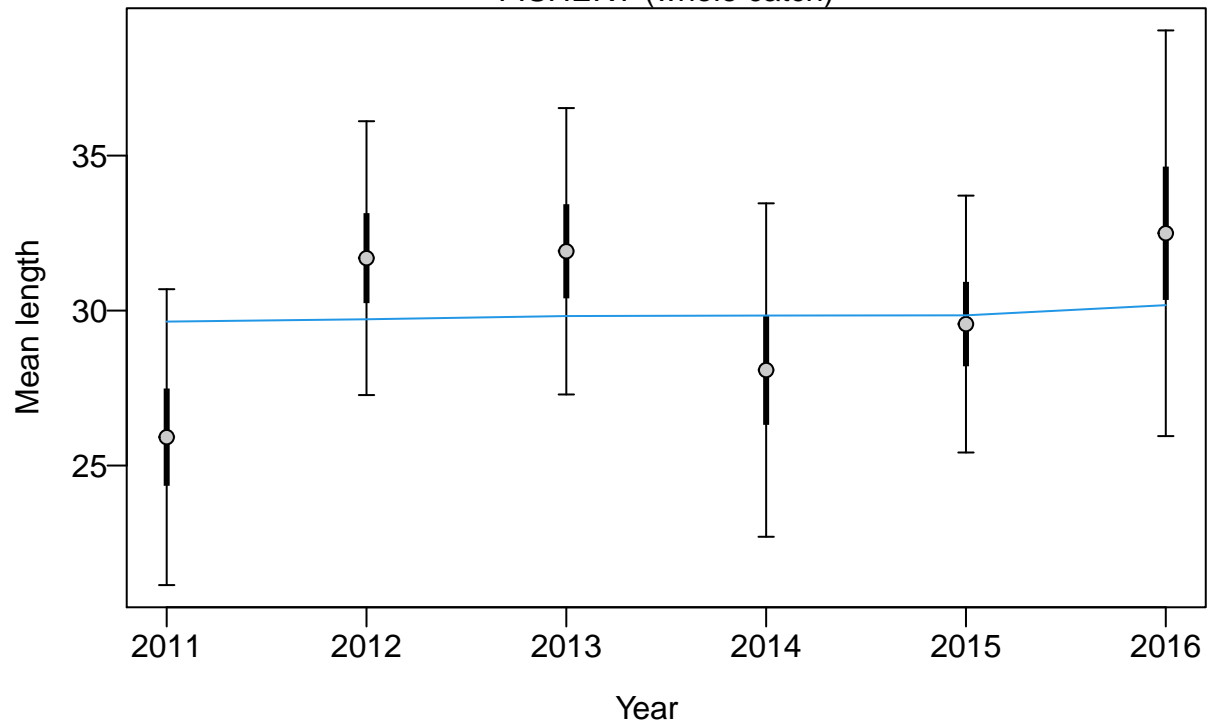
Proportion

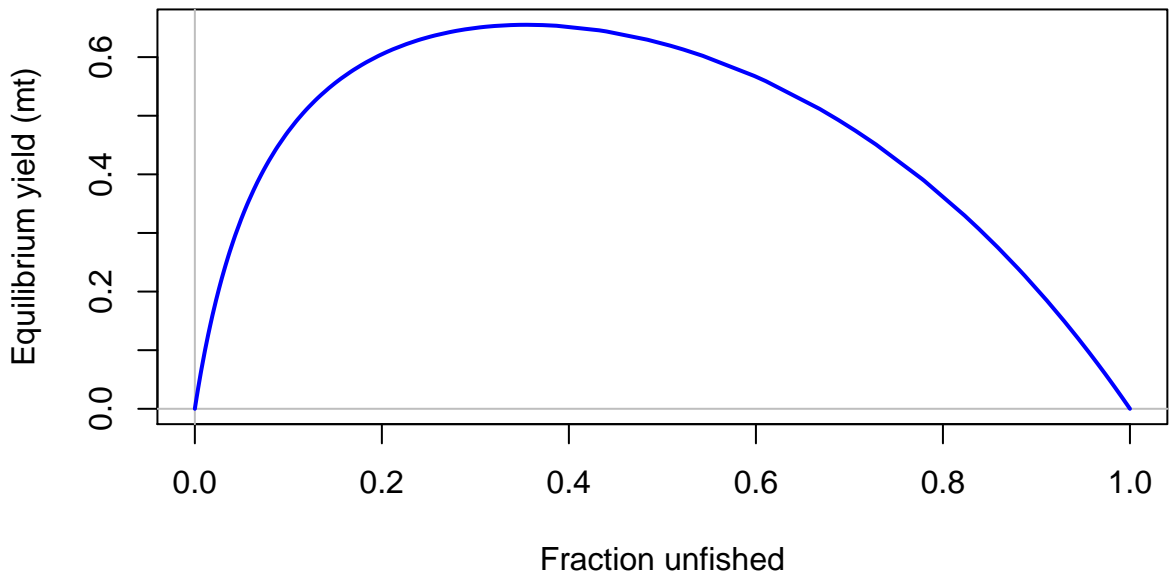


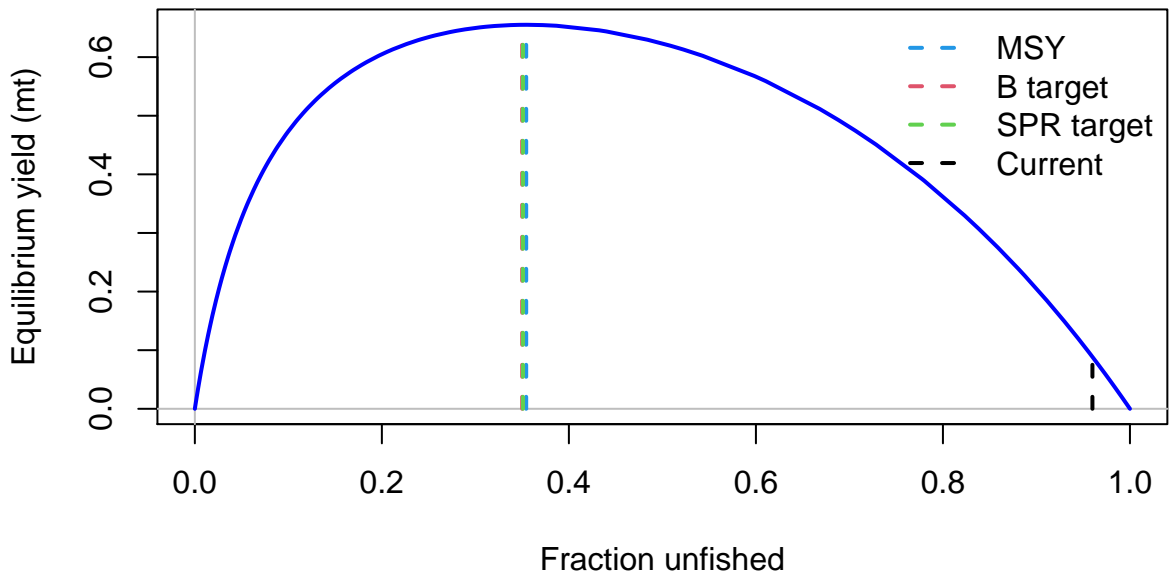
Length (cm)

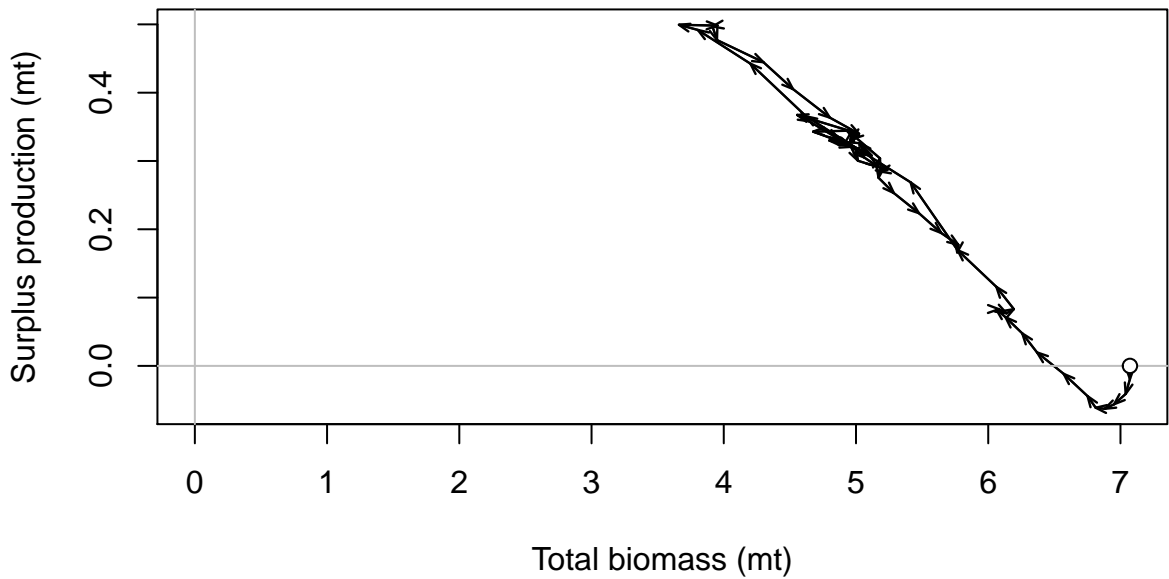


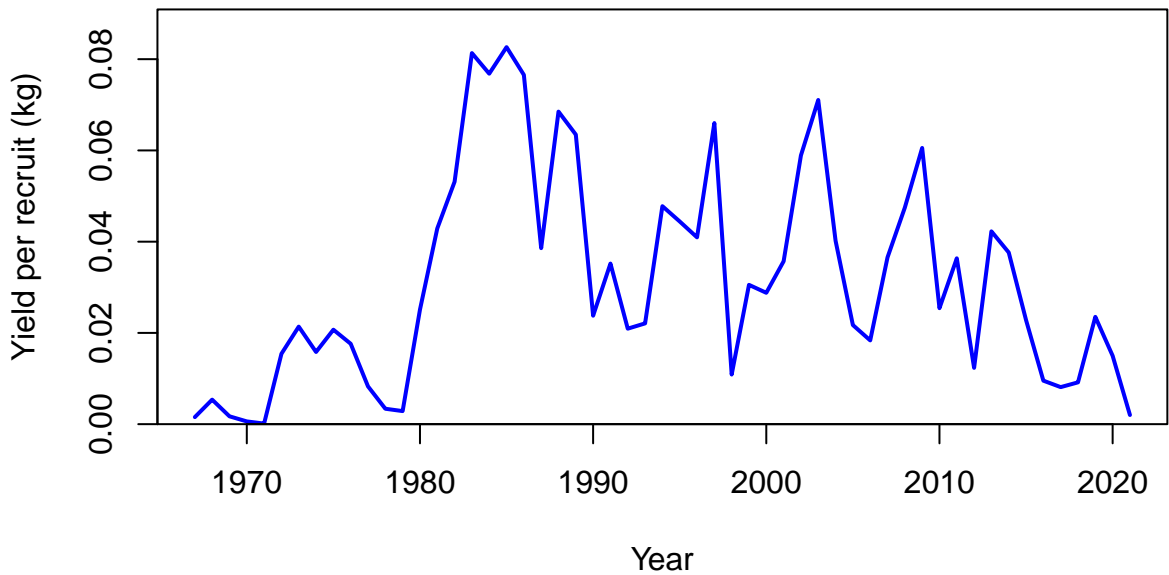
FISHERY (whole catch)









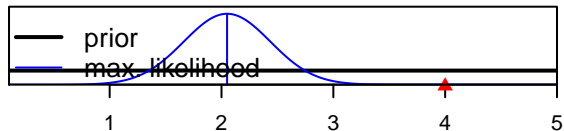




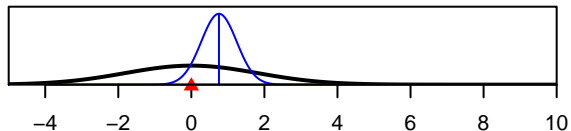


Density

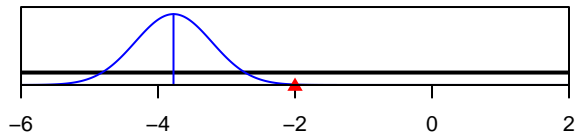
SR_LN(R0)



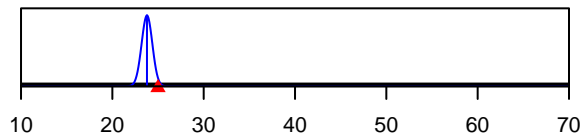
ln(DM_theta)_1



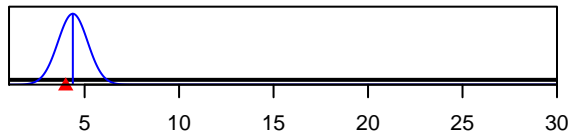
LnQ_base_FISHERY(1)



Size_inflection_FISHERY(1)



Size_95%width_FISHERY(1)



Parameter value