

Plots created using the 'r4ss' package in R

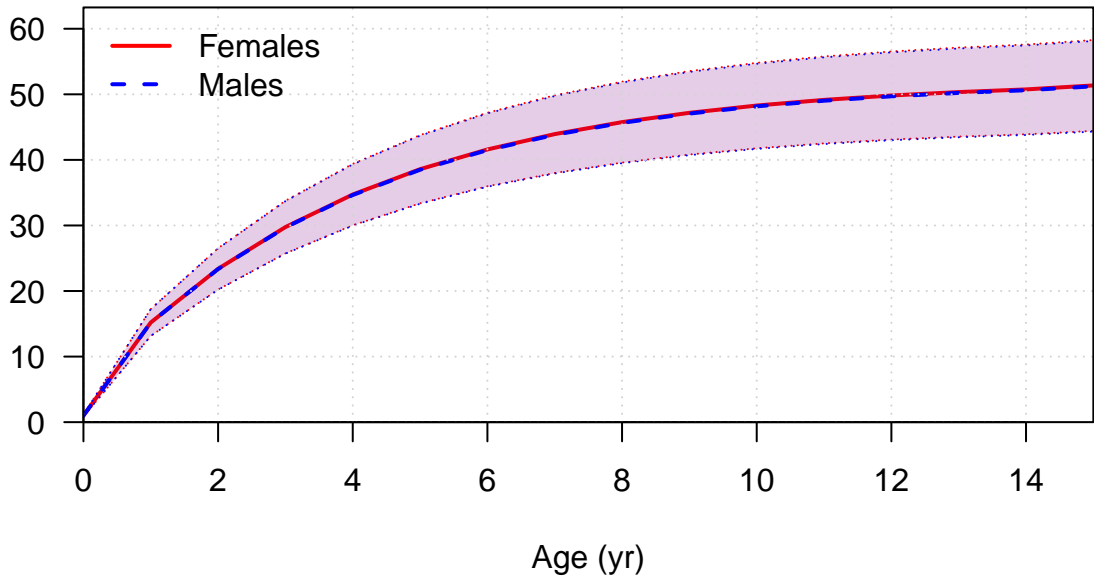
Stock Synthesis version: 3.30.19.0

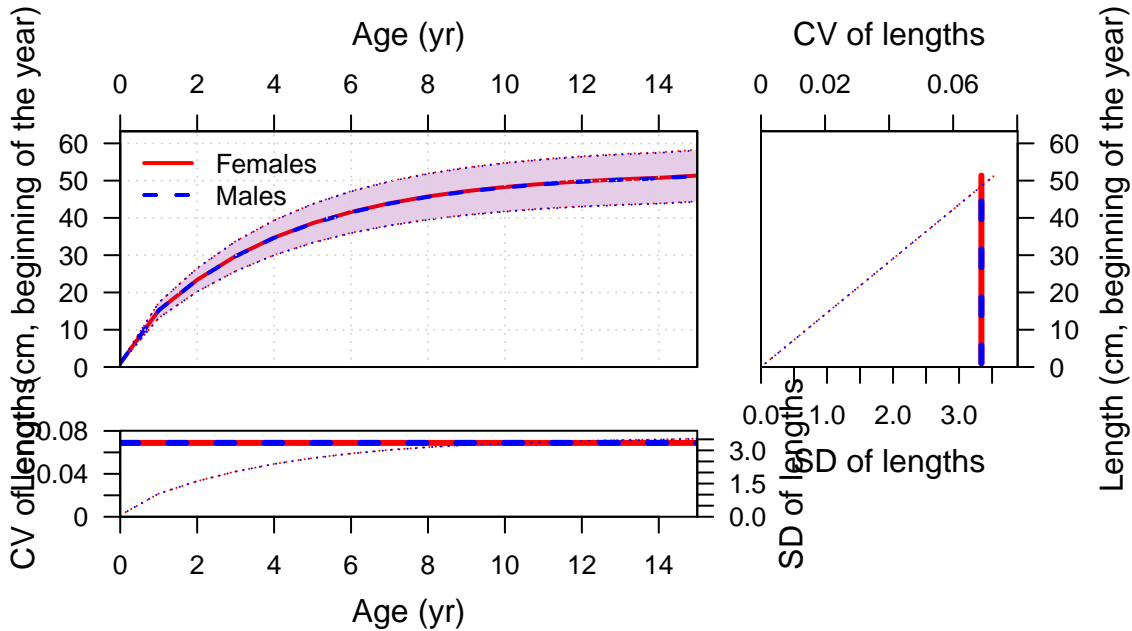
StartTime: Fri Apr 28 10:10:42 2023

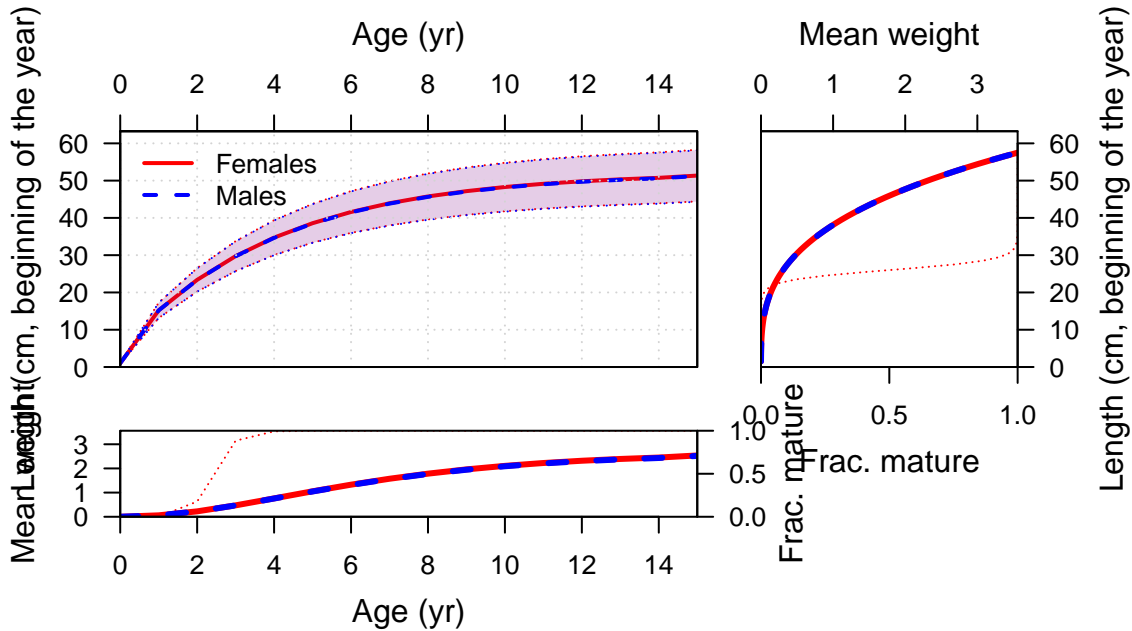
Data_File: data.ss

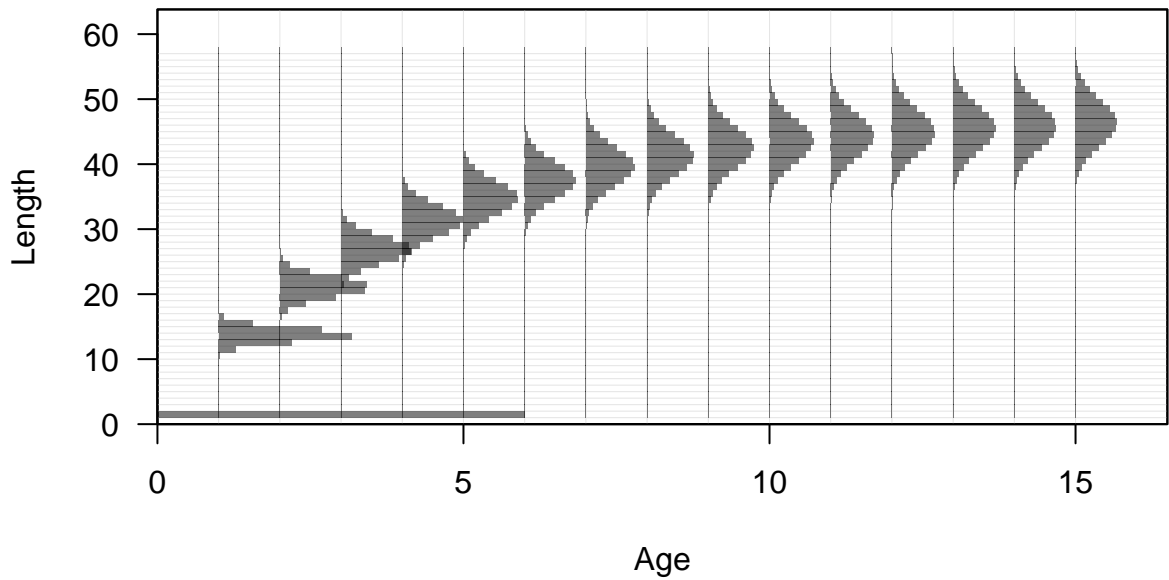
Control_File: control.ss

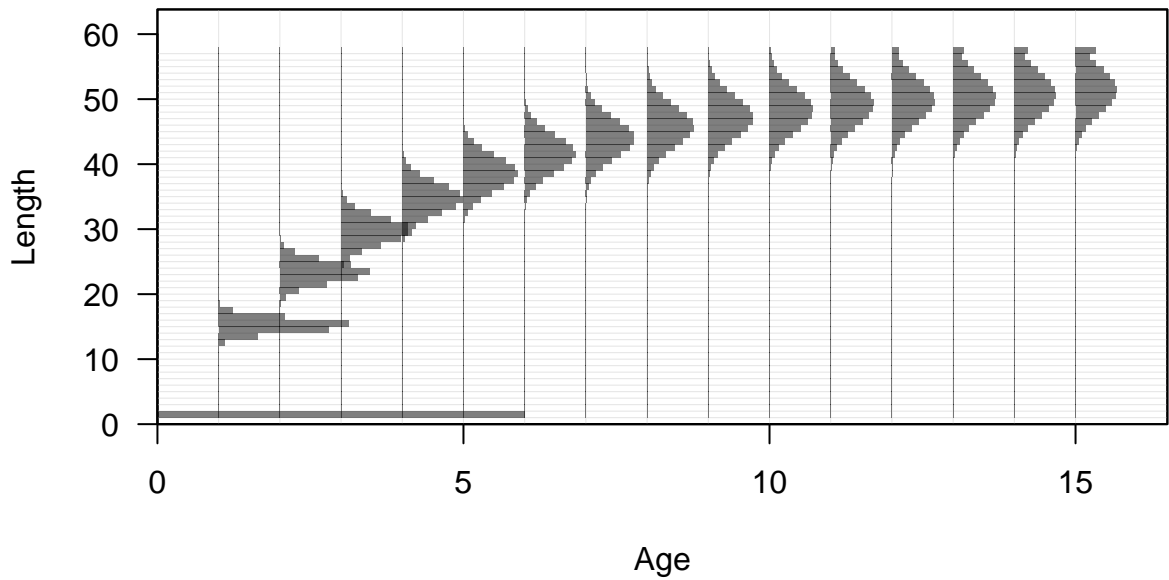
Length (cm, beginning of the year)

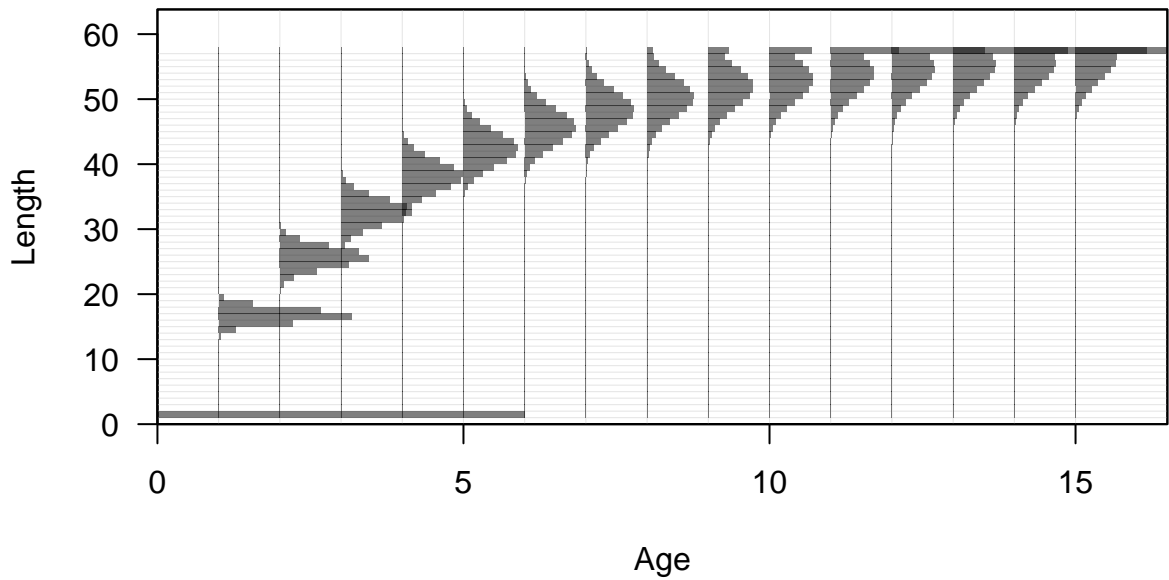


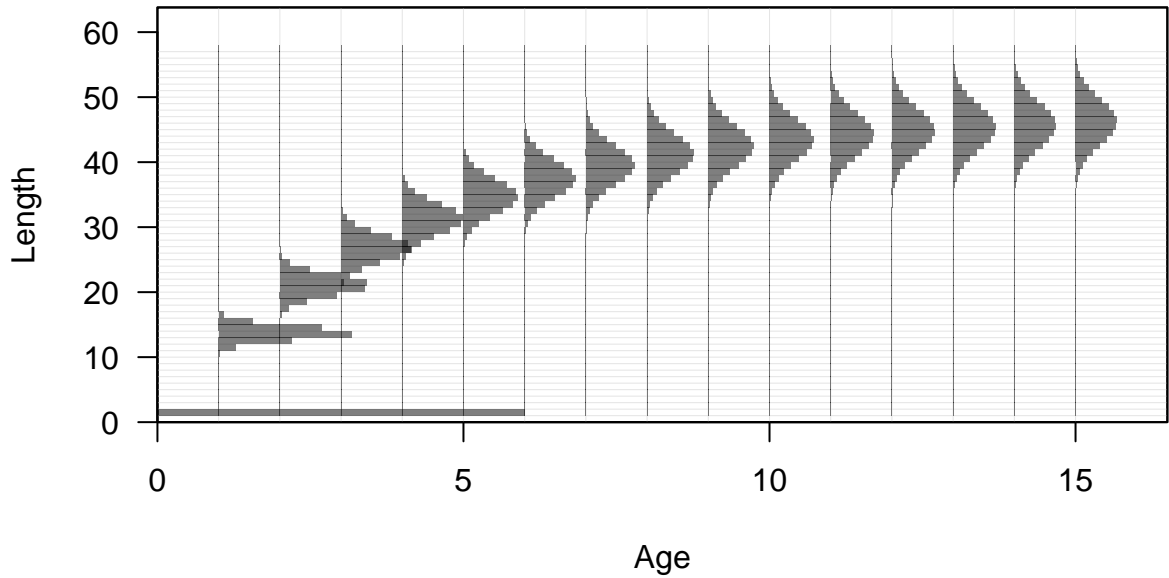


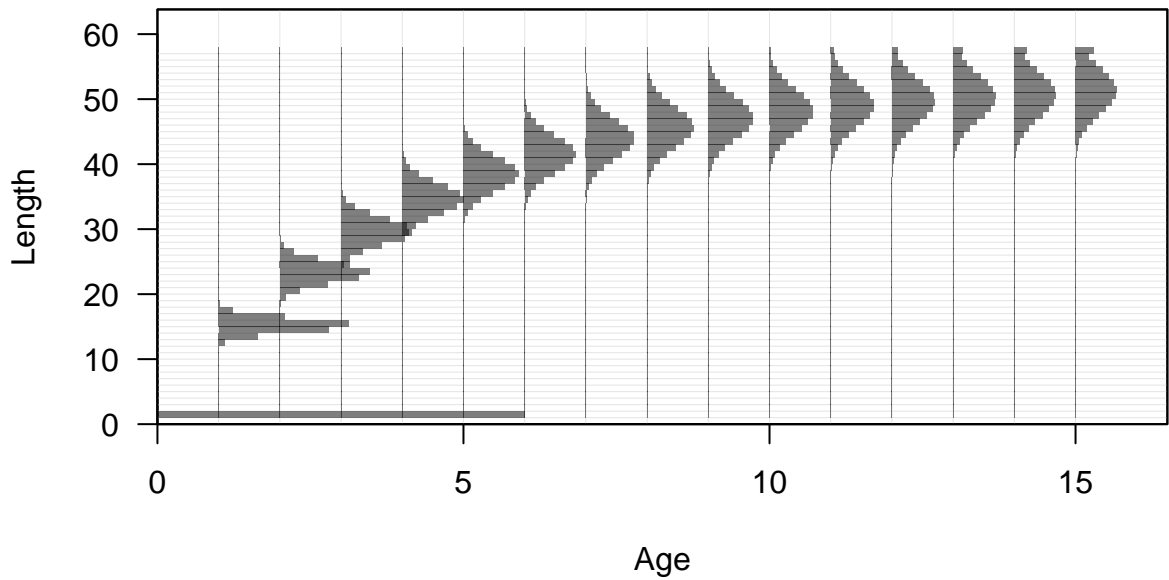


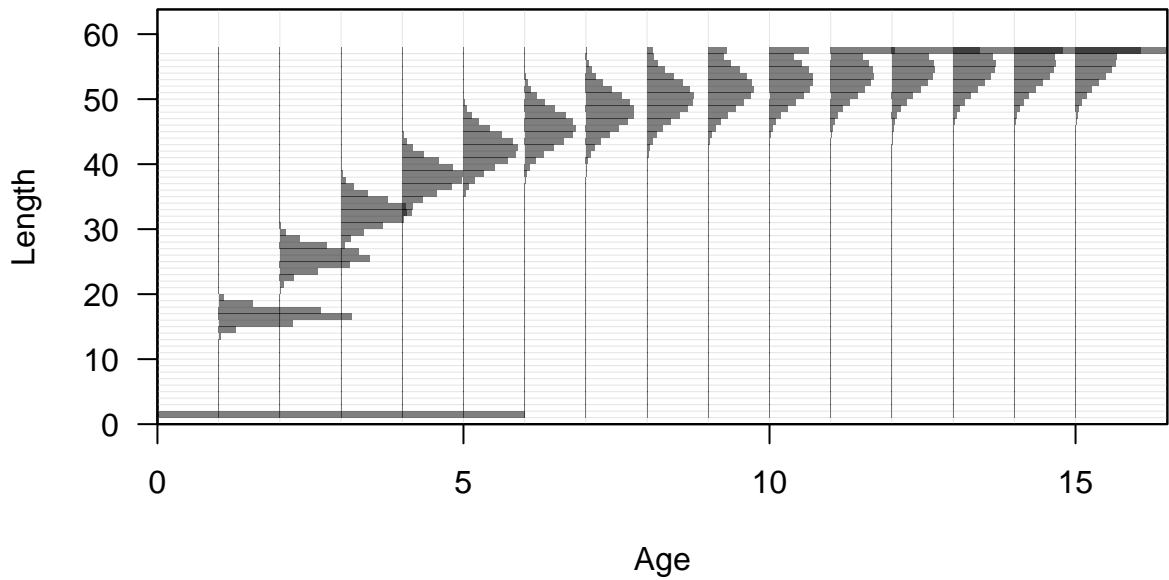


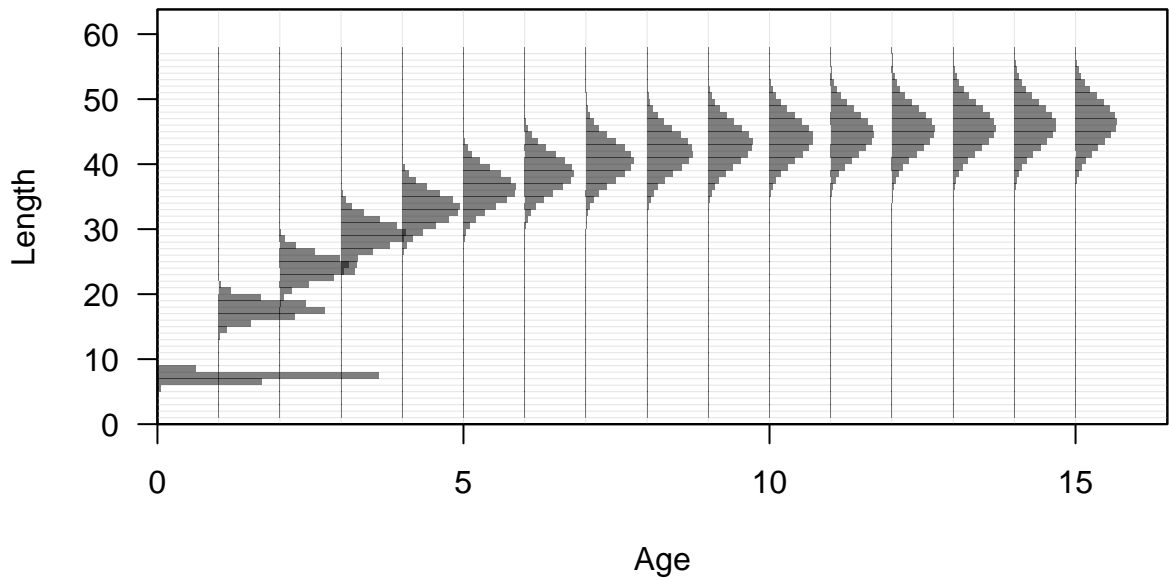


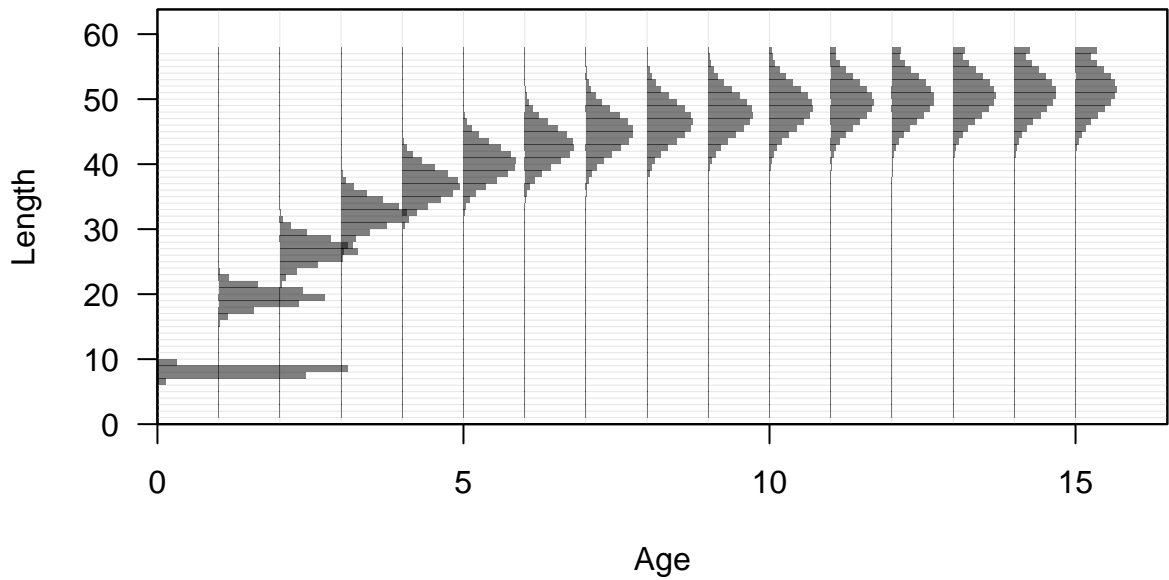


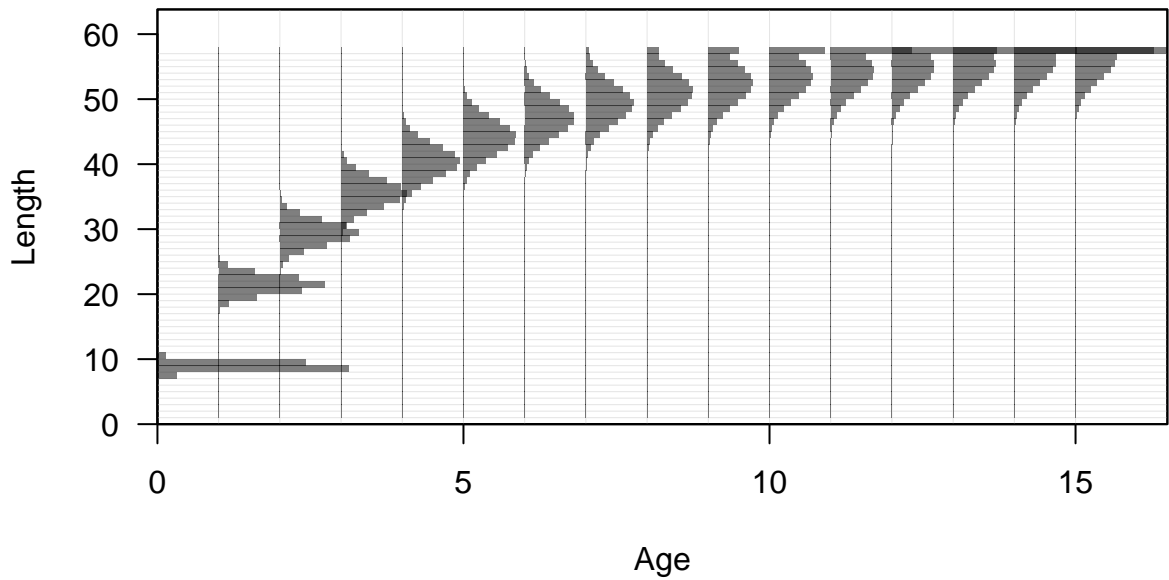


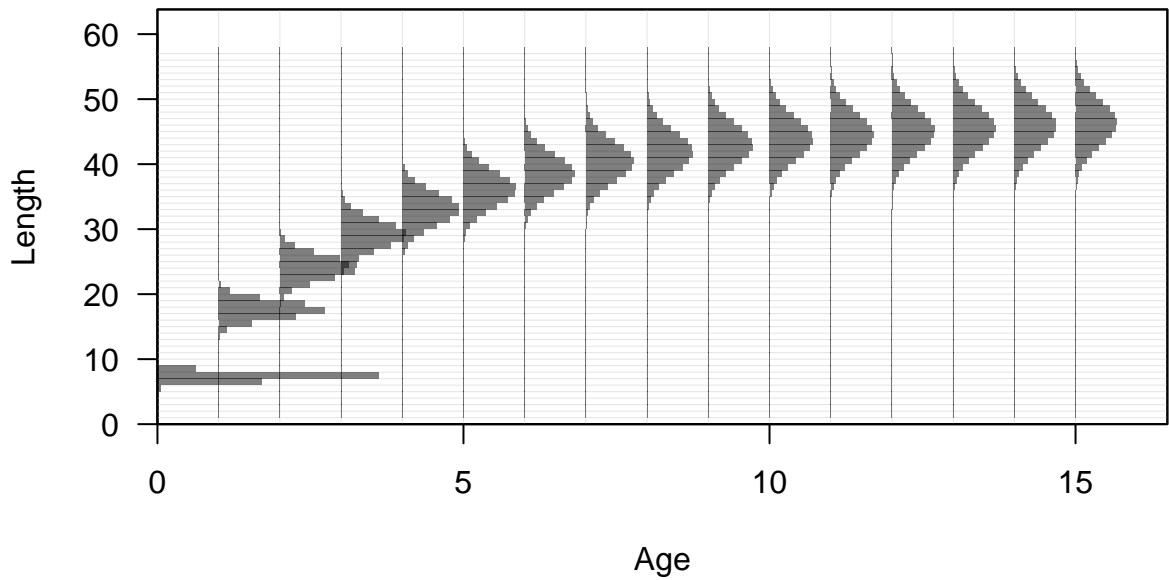


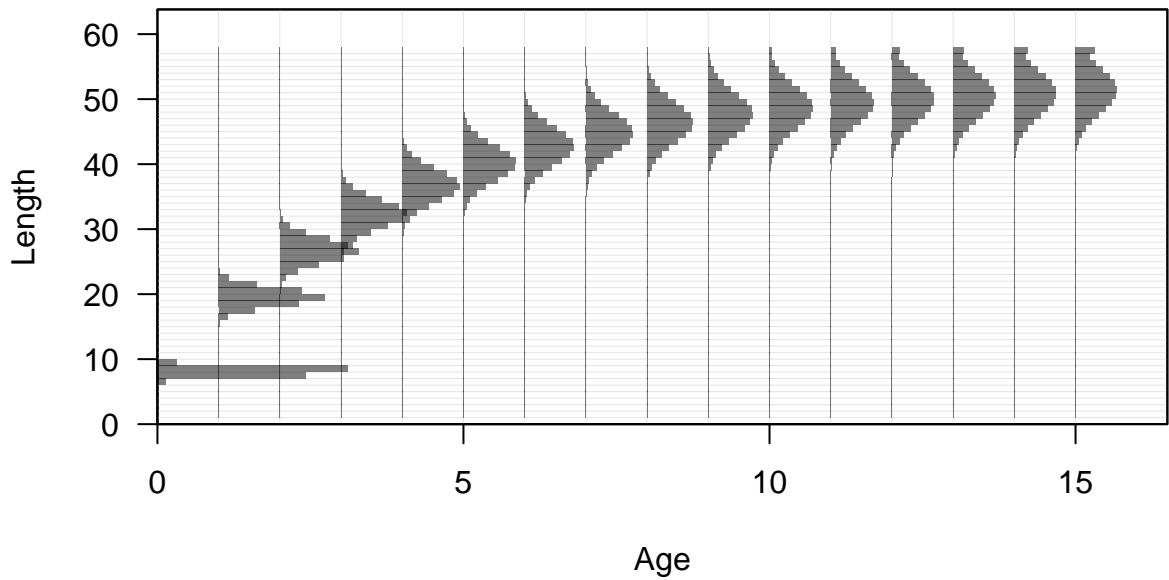


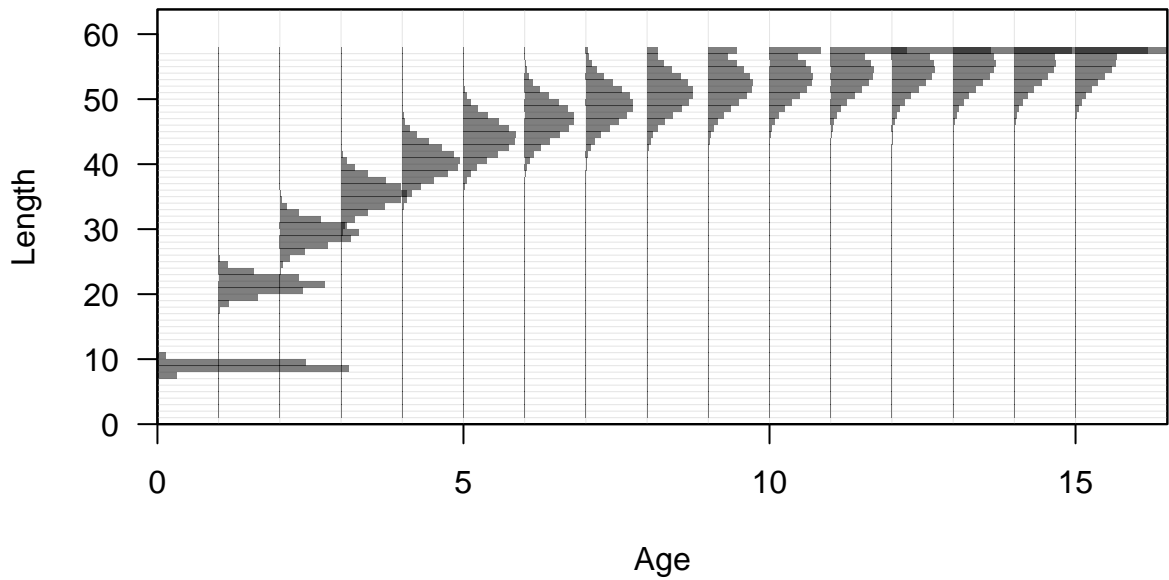








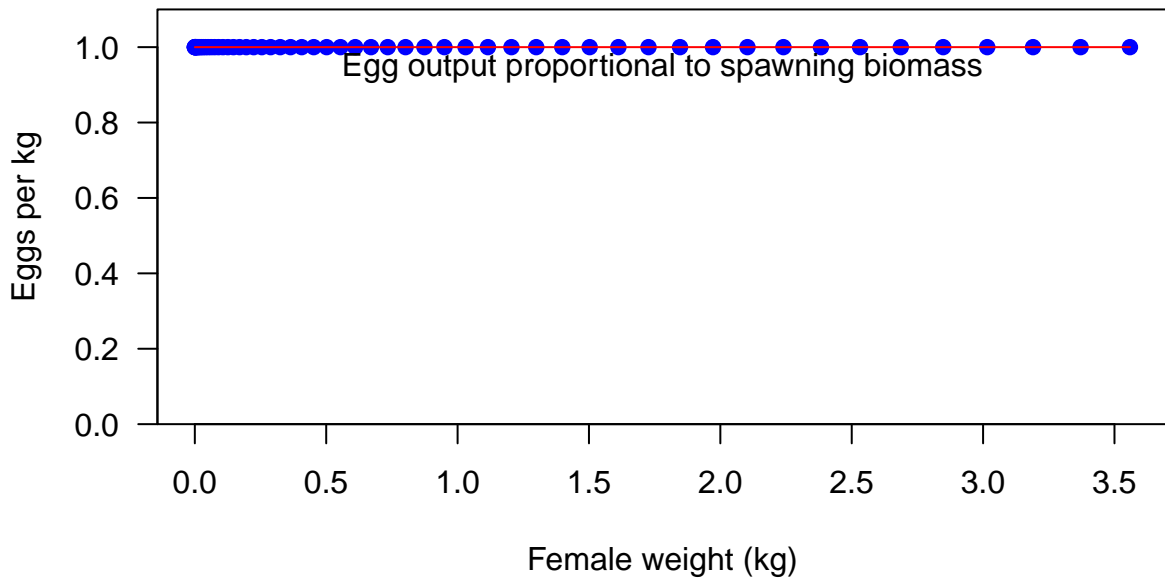












Fecundity



Fecundity



Spawning output

3

2

1

0

0

10

20

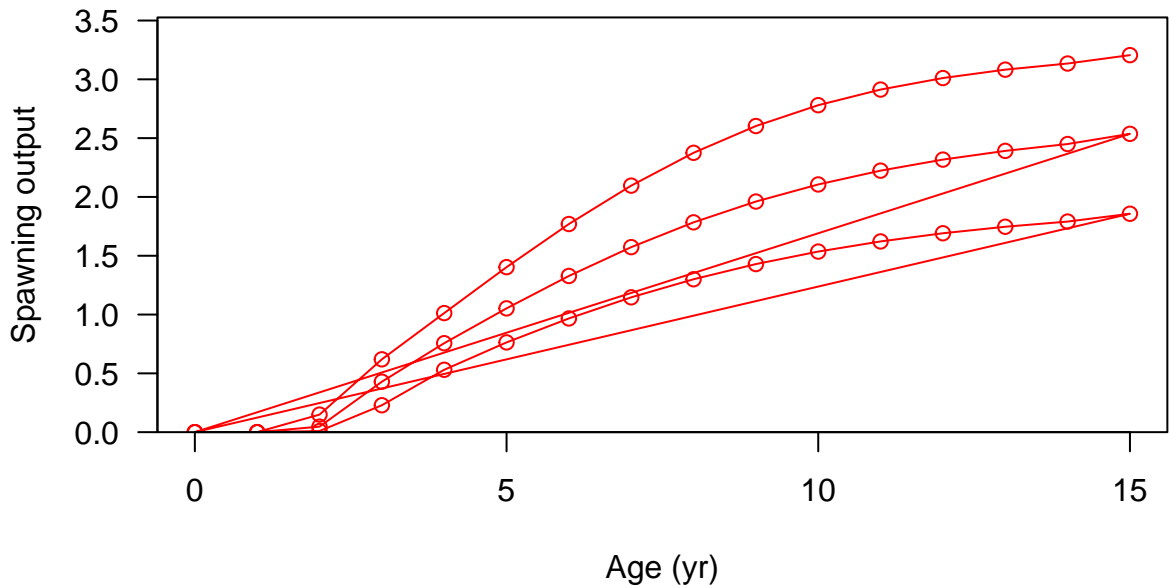
30

40

50

Length (cm)

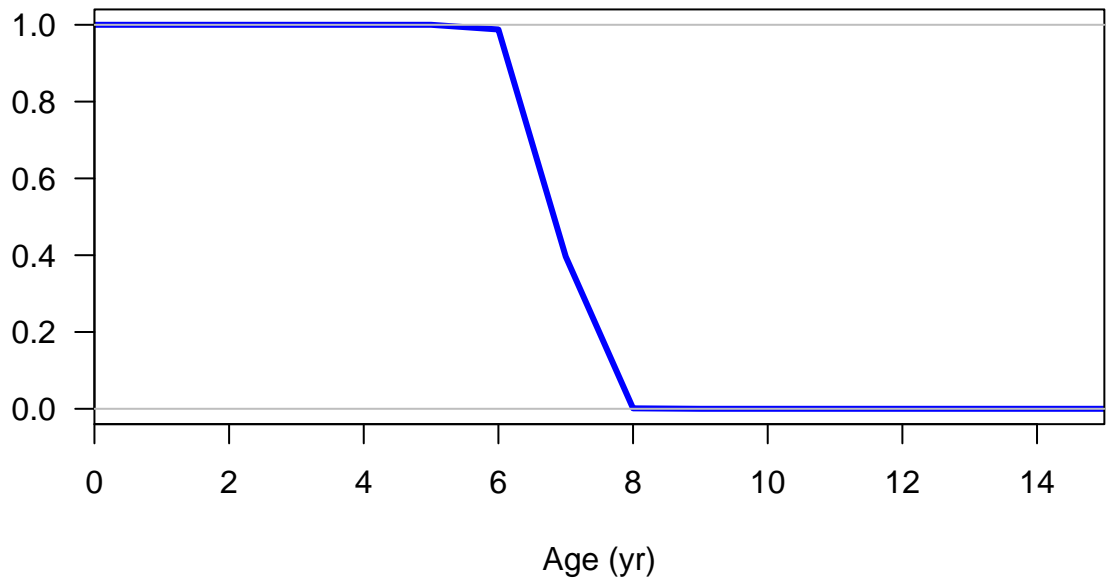




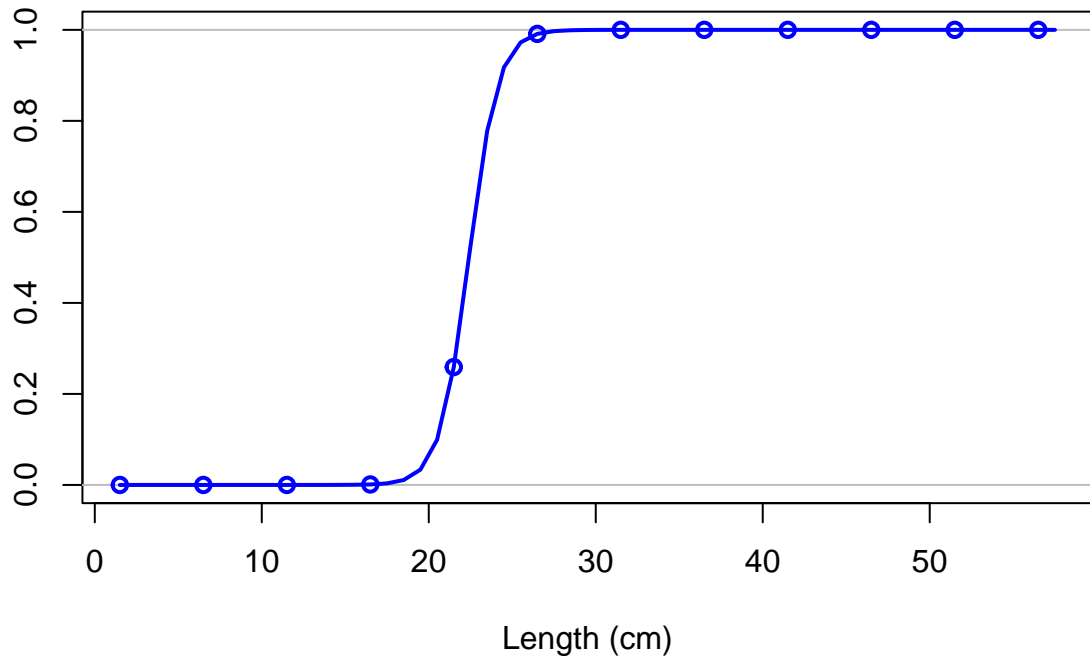
Hermaphroditism transition rate



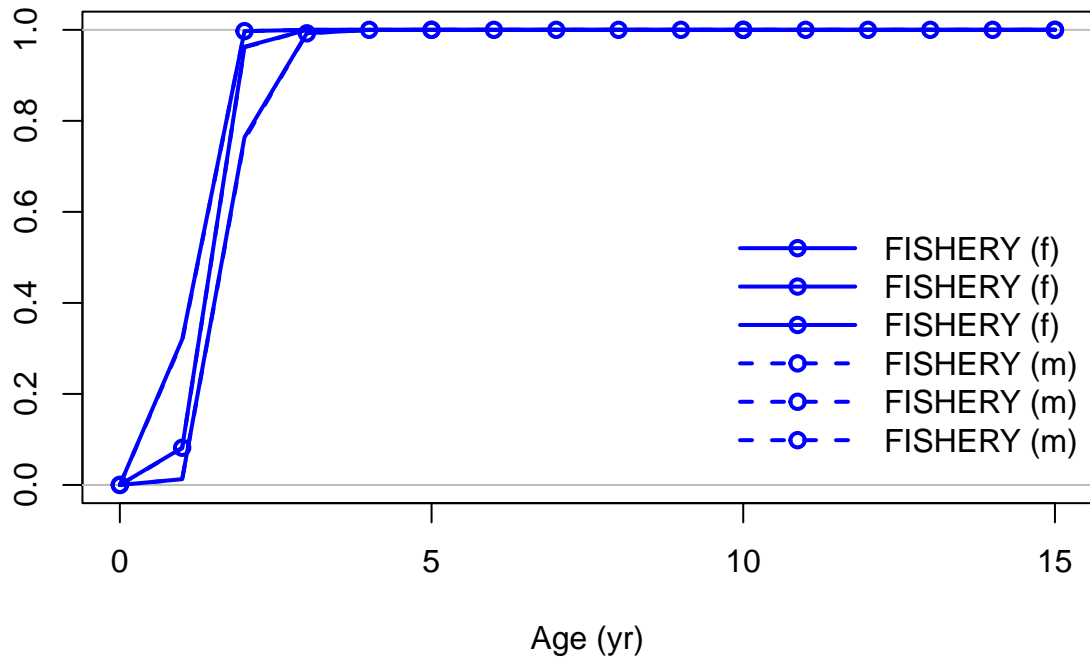
Fraction females by age at equilibrium



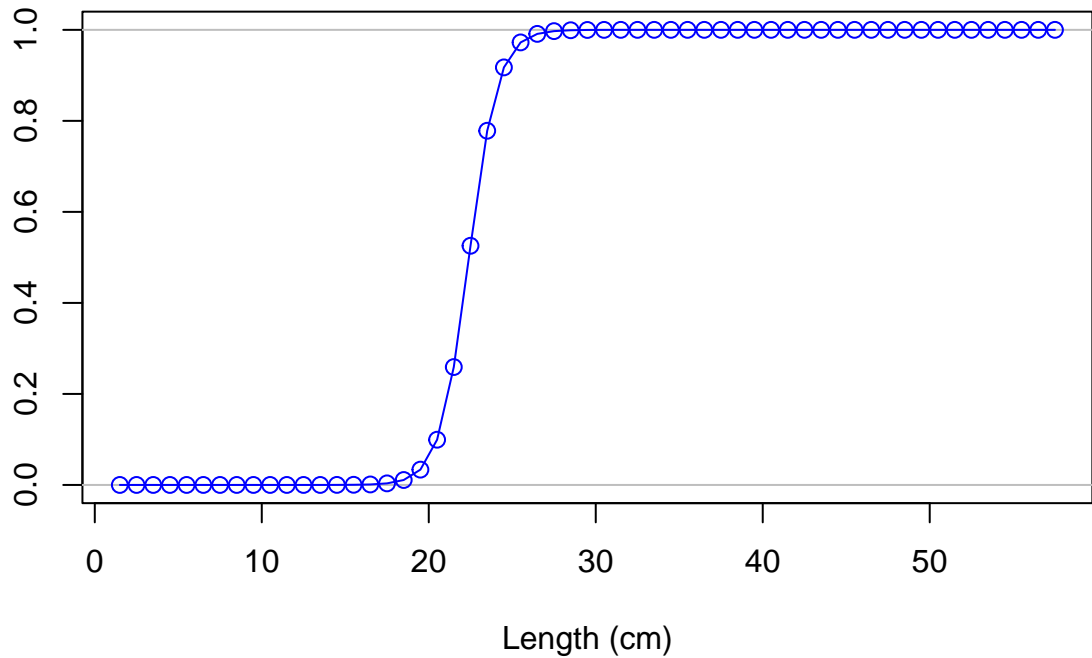
Selectivity



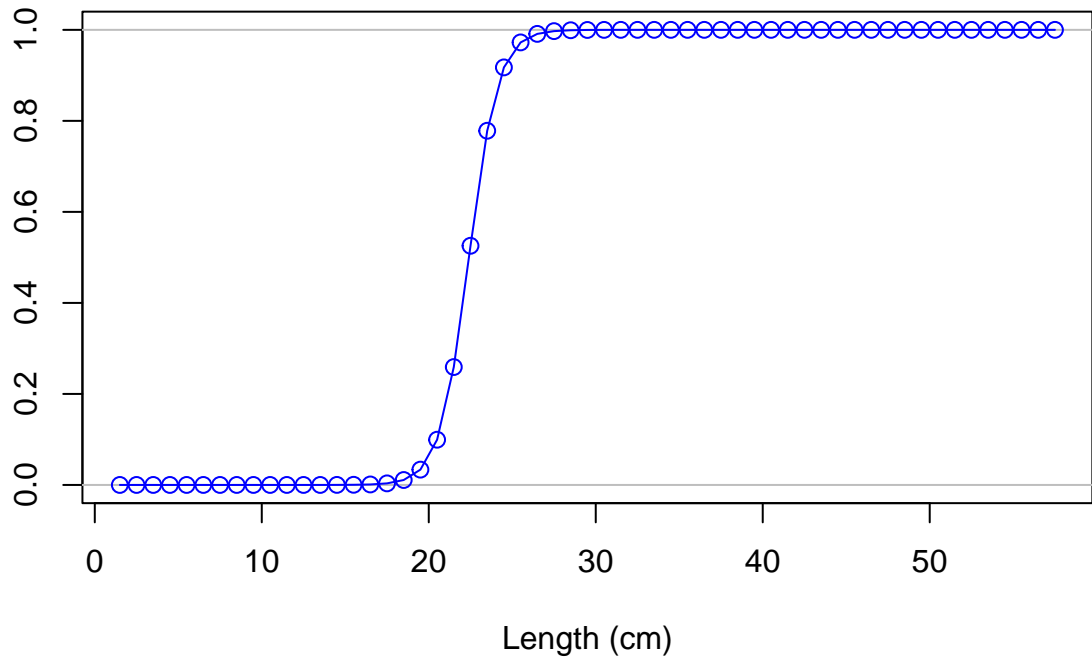
Selectivity

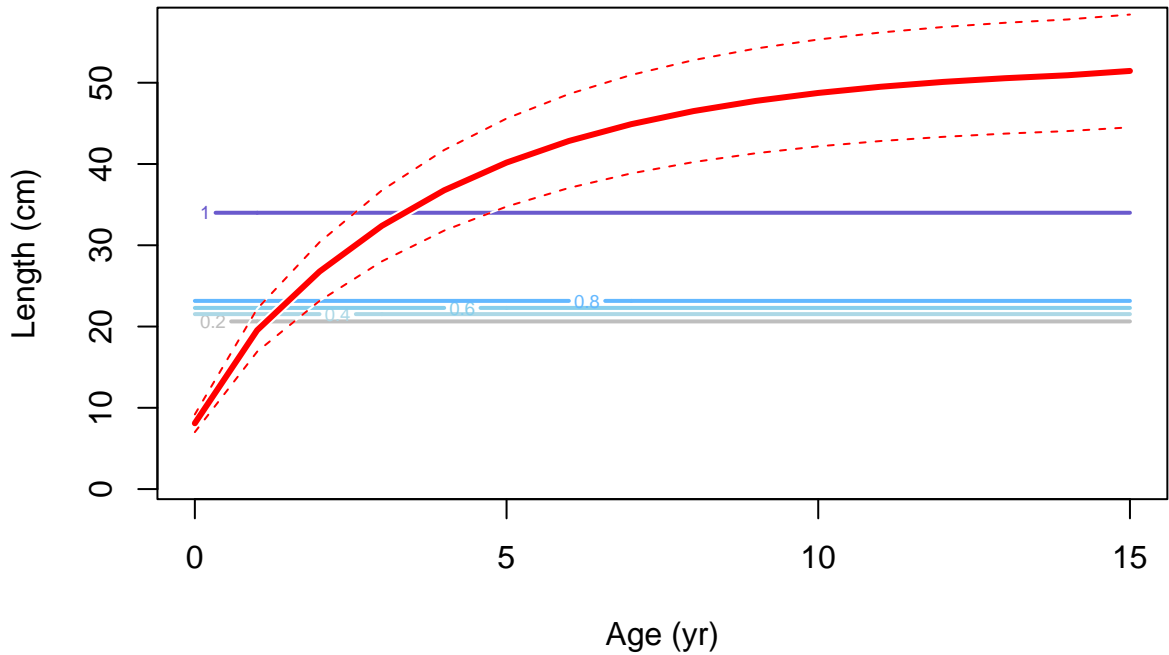


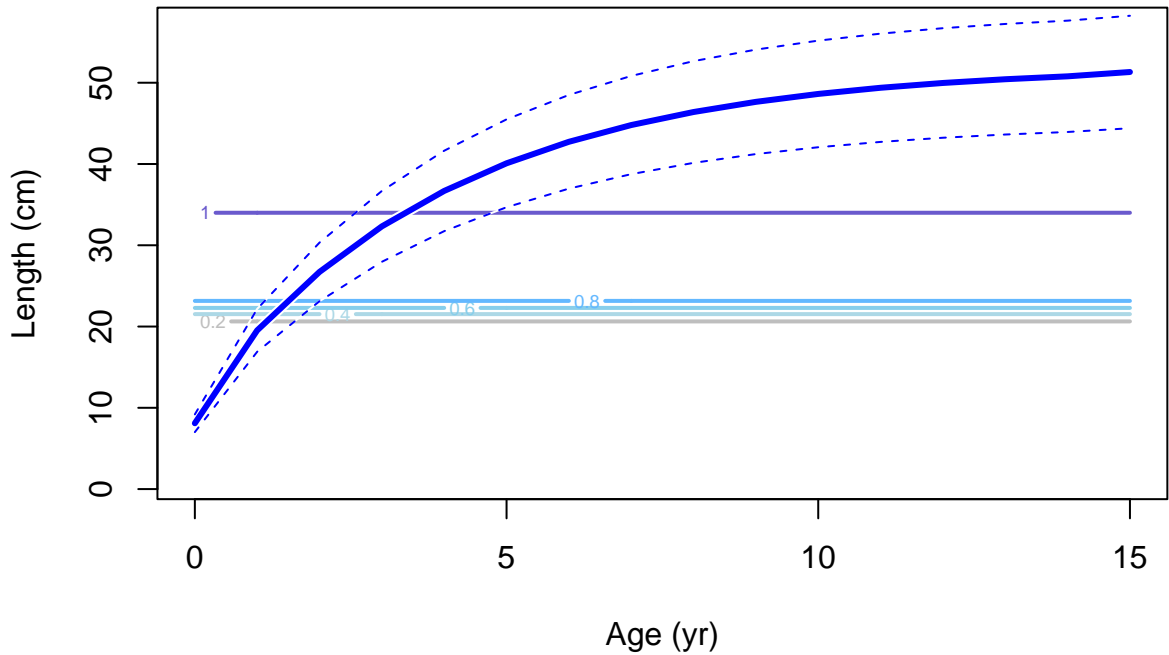
Selectivity



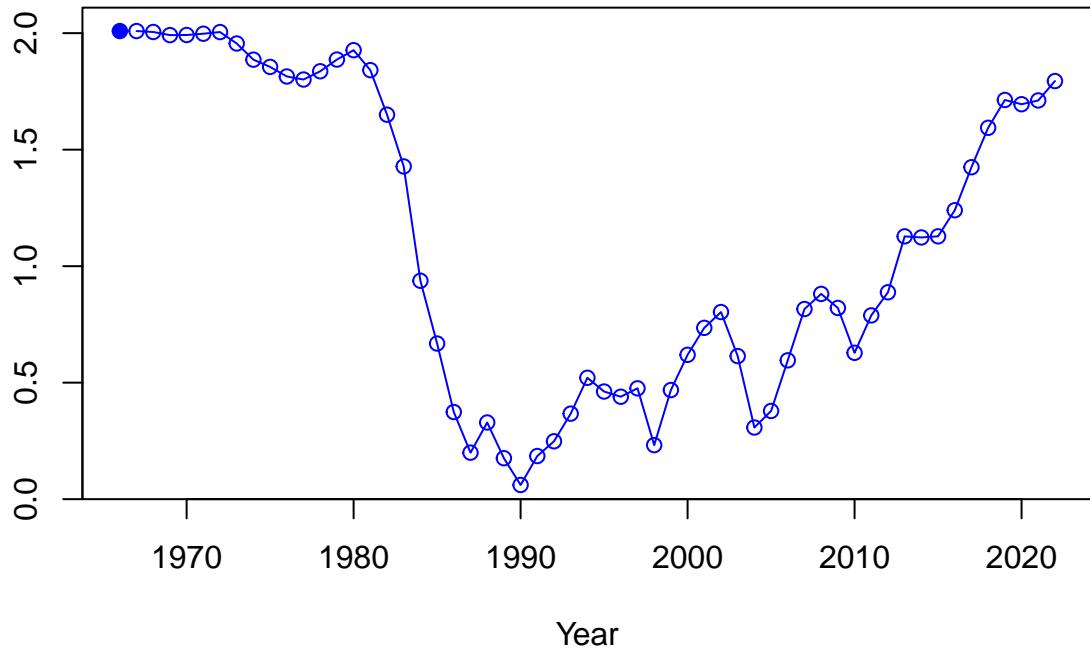
Selectivity



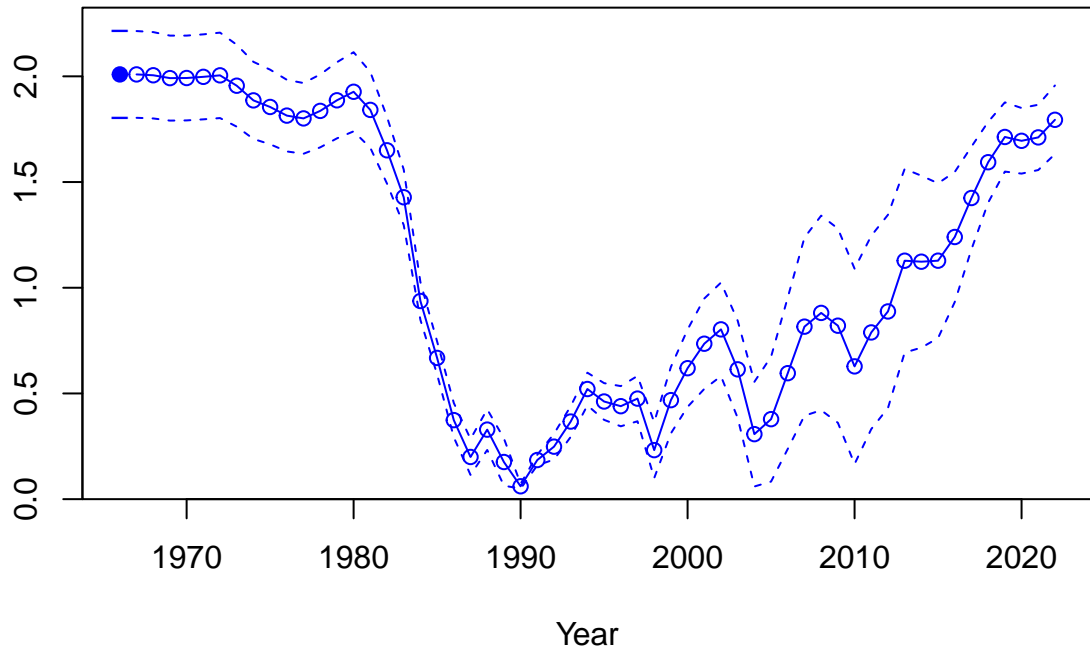




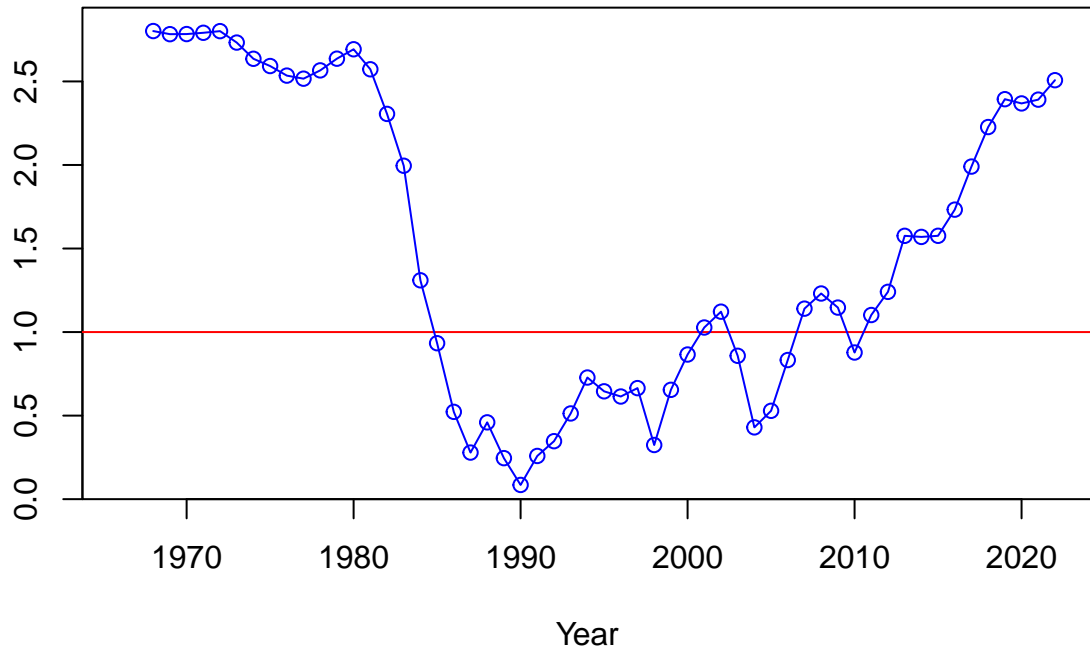
Spawning biomass (mt)



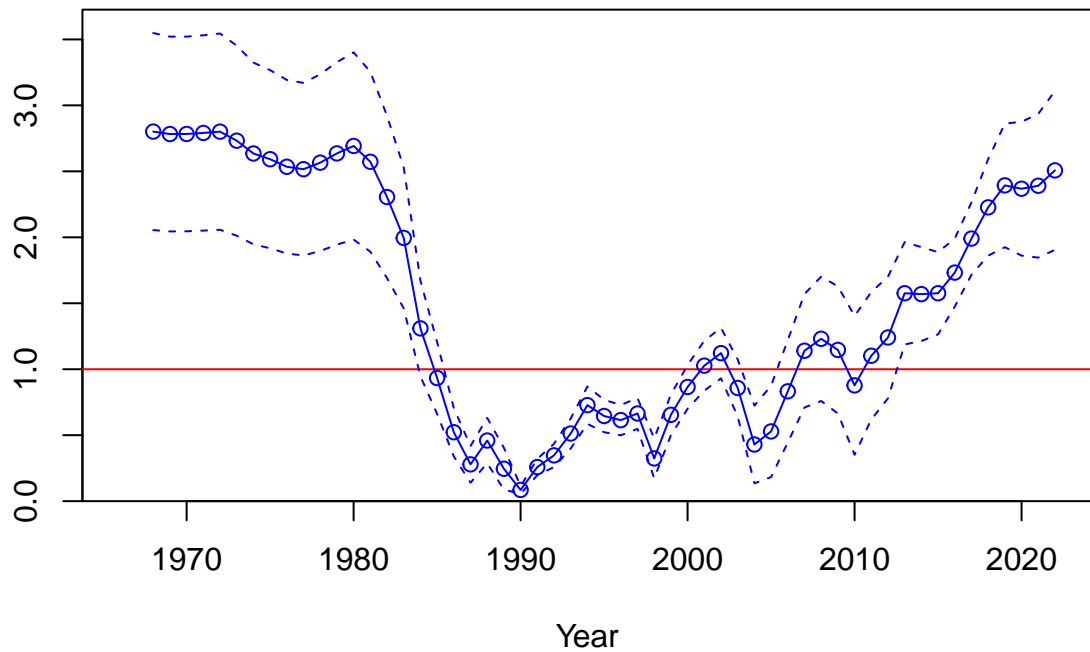
Spawning biomass (mt)

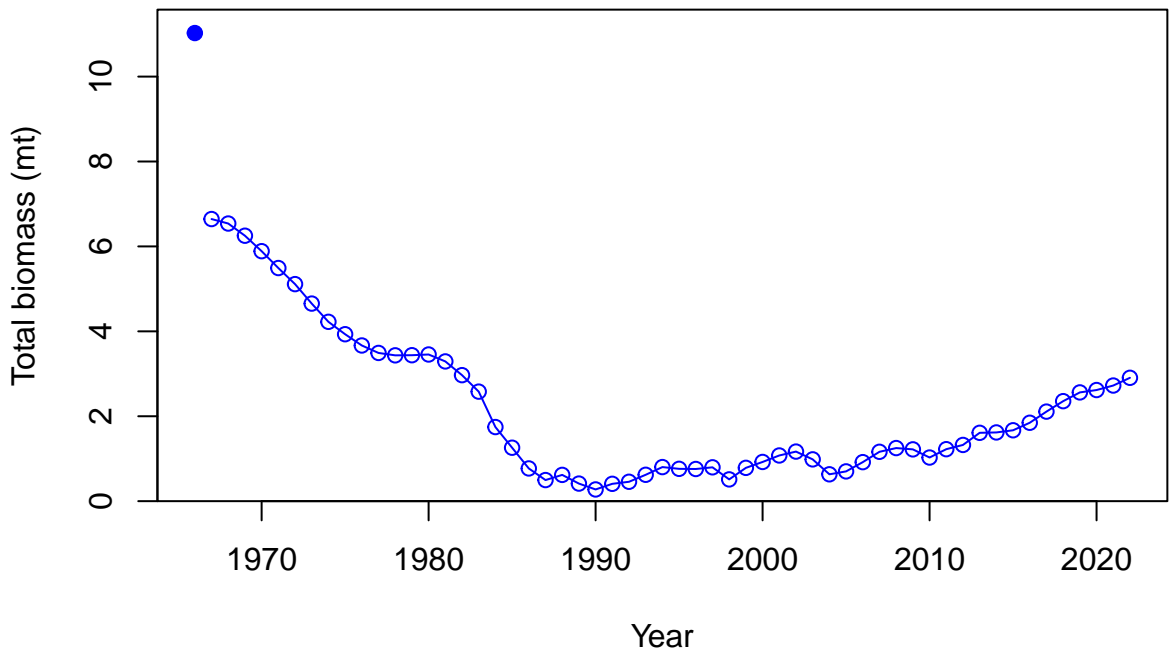


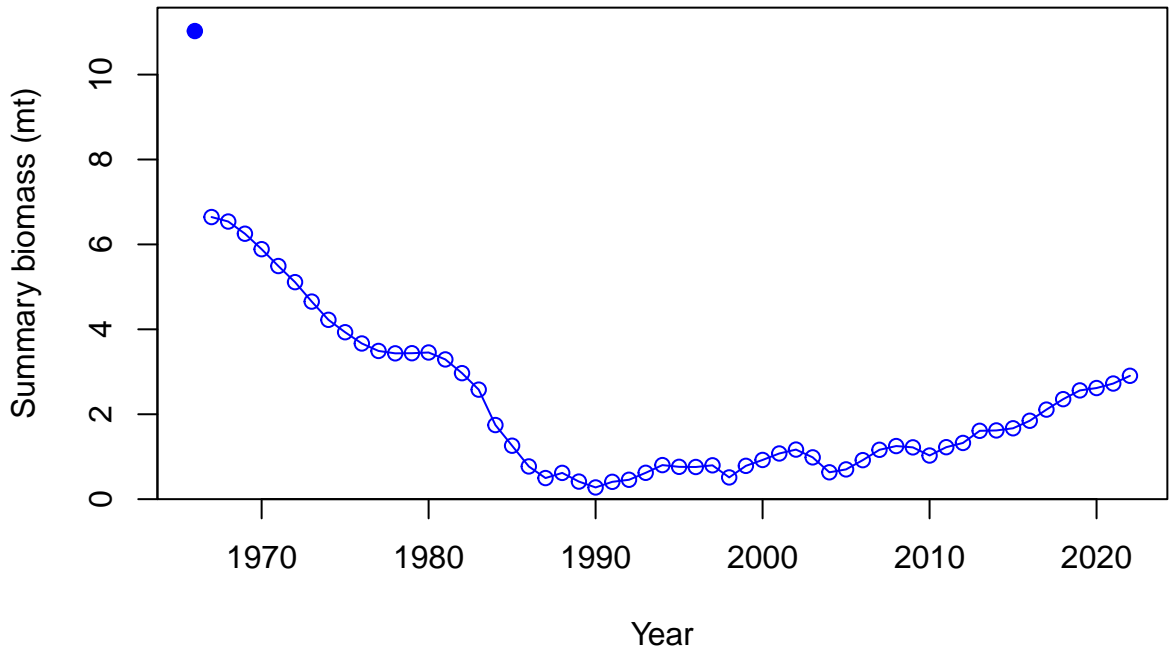
Relative spawning biomass: B/B_{MSY}



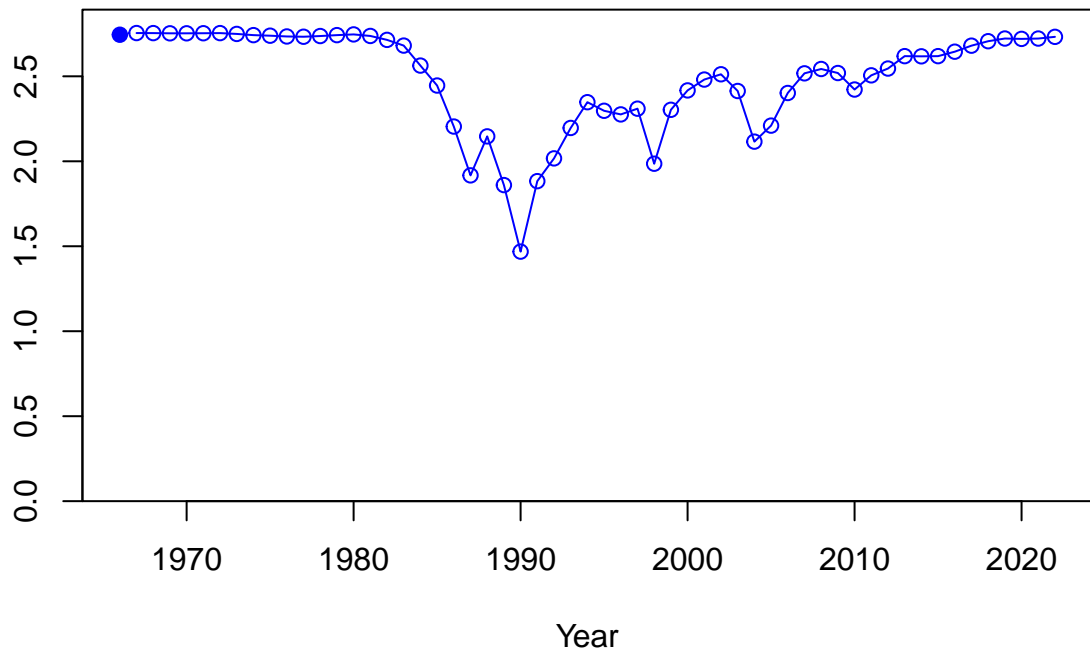
Relative spawning biomass: B/B_{MSY}



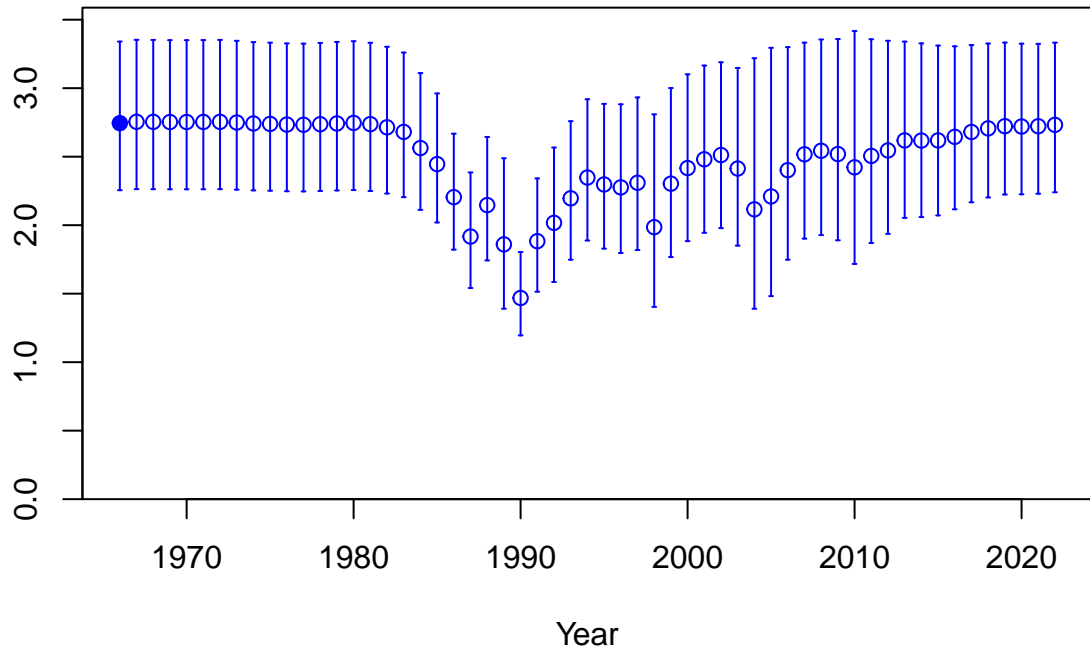




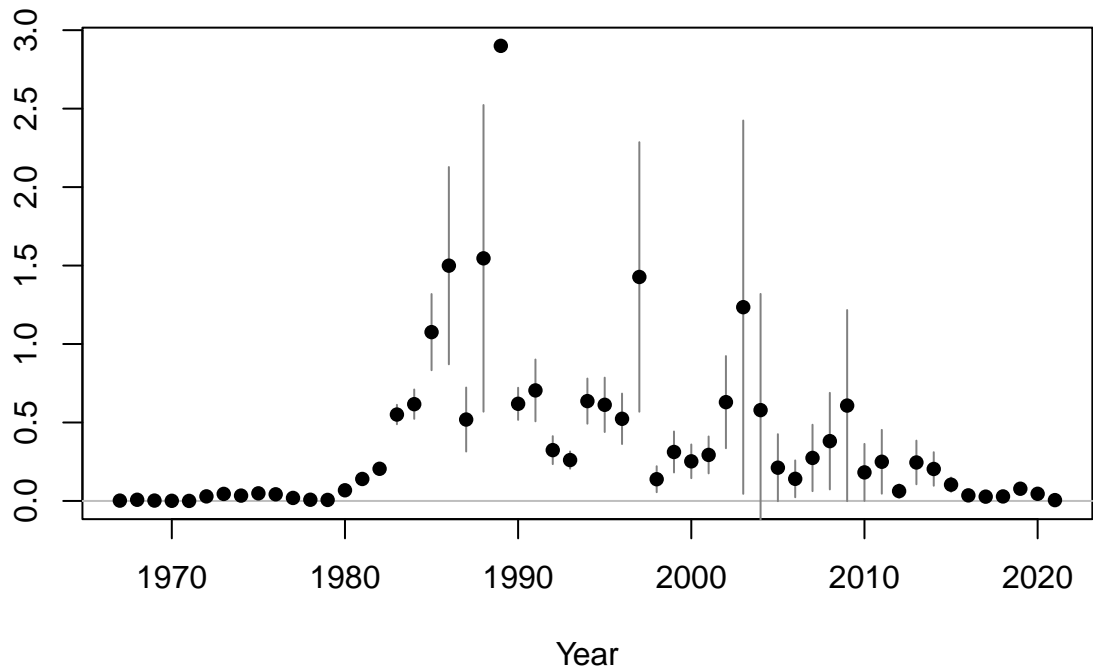
Age-0 recruits (1,000s)

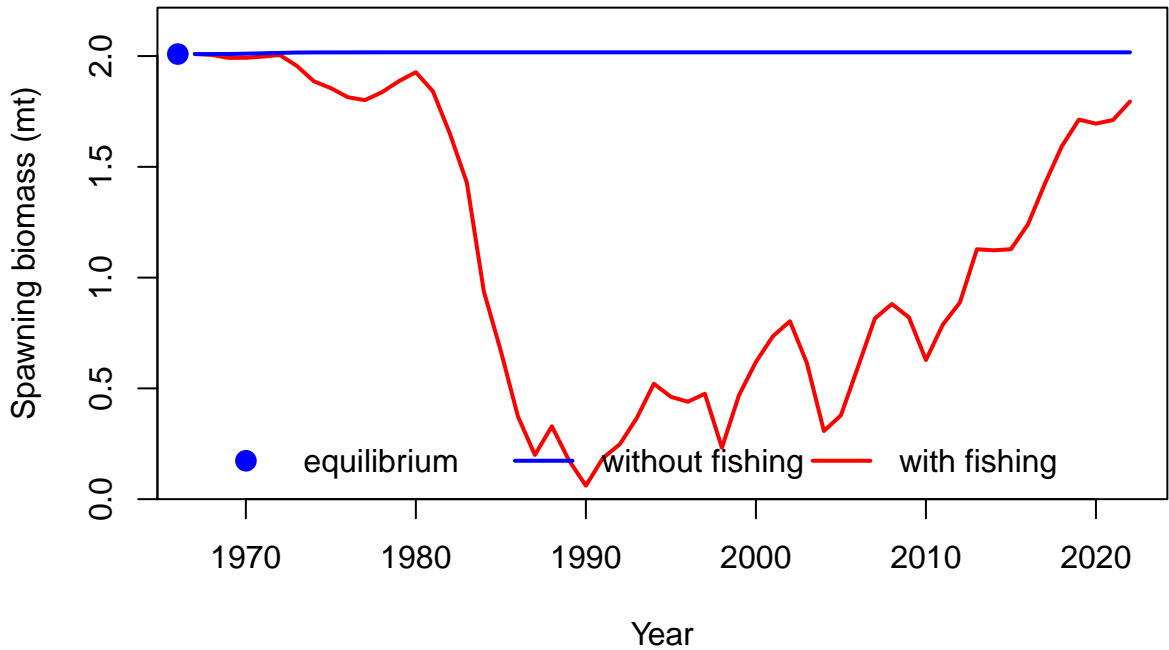


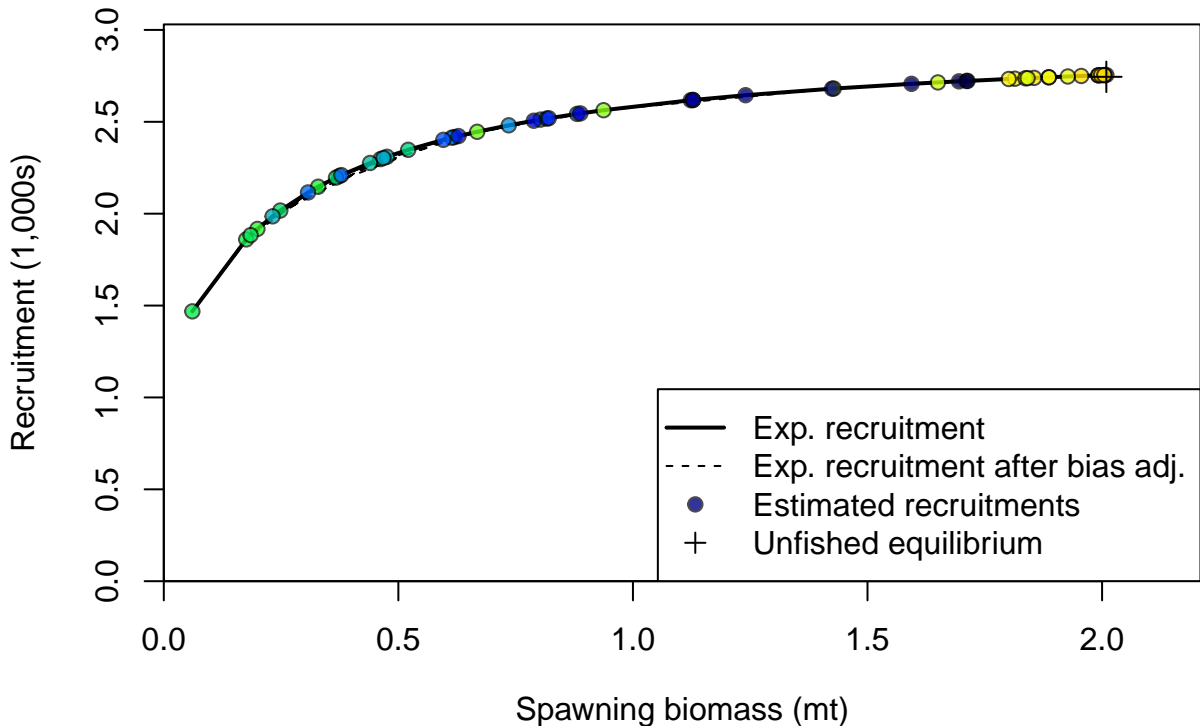
Age-0 recruits (1,000s)

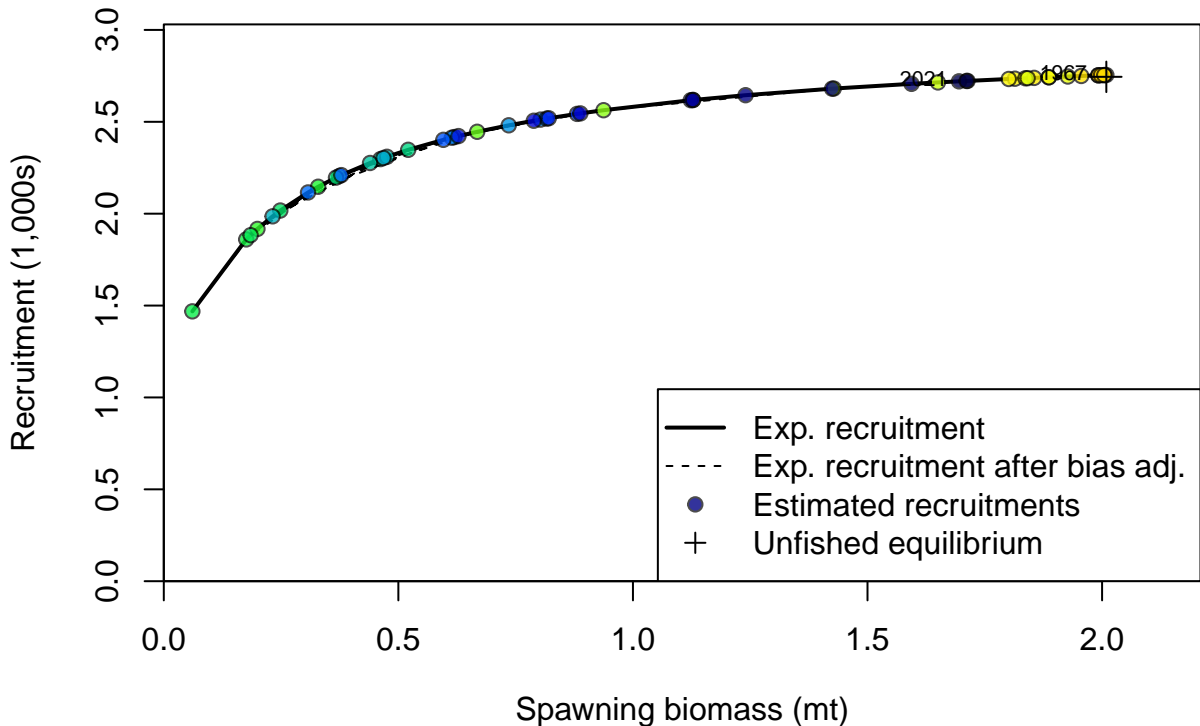


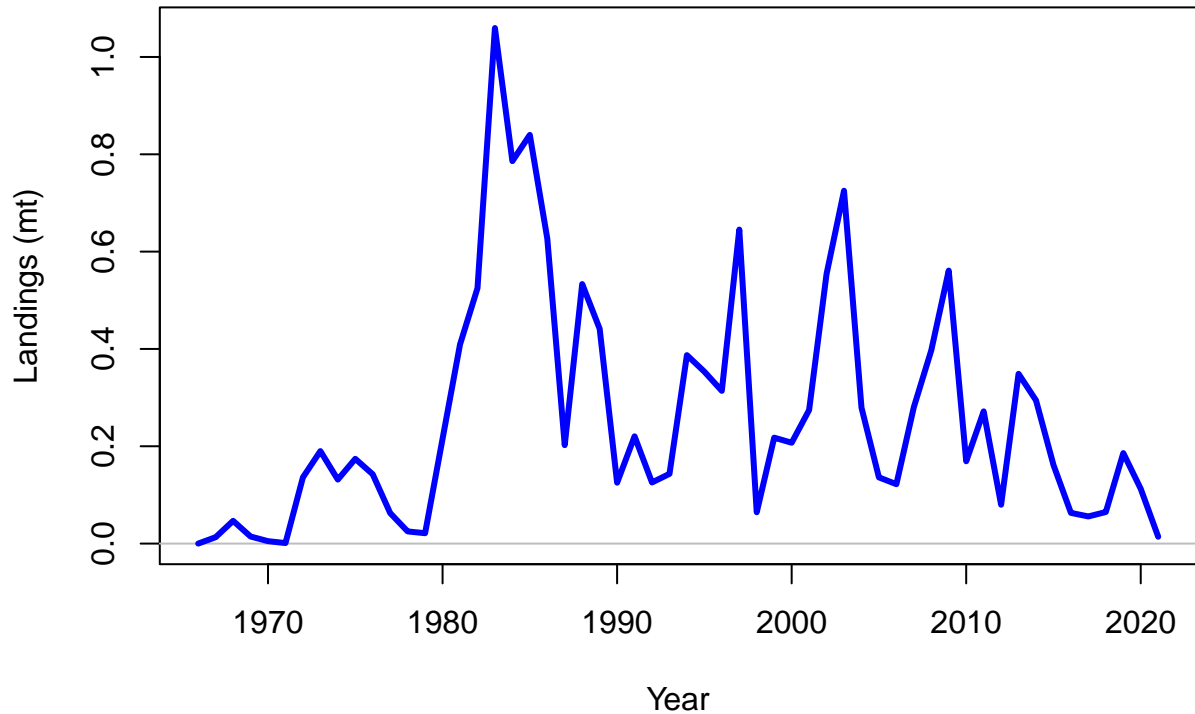
Summary Fishing Mortality

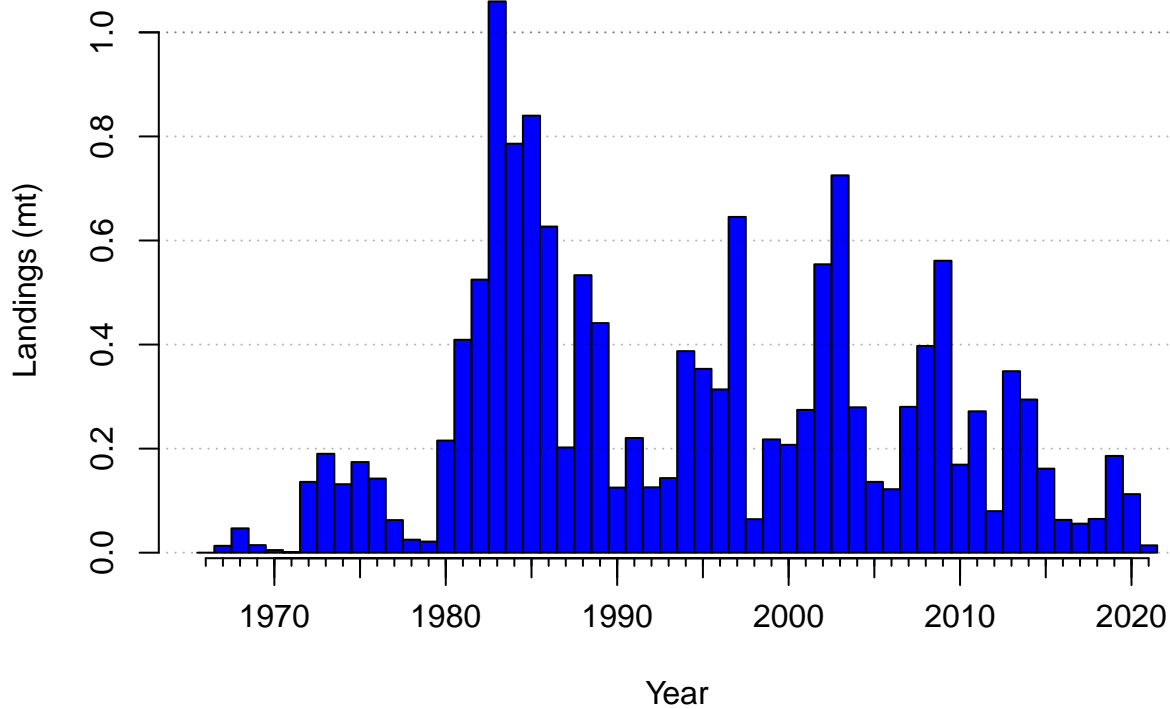


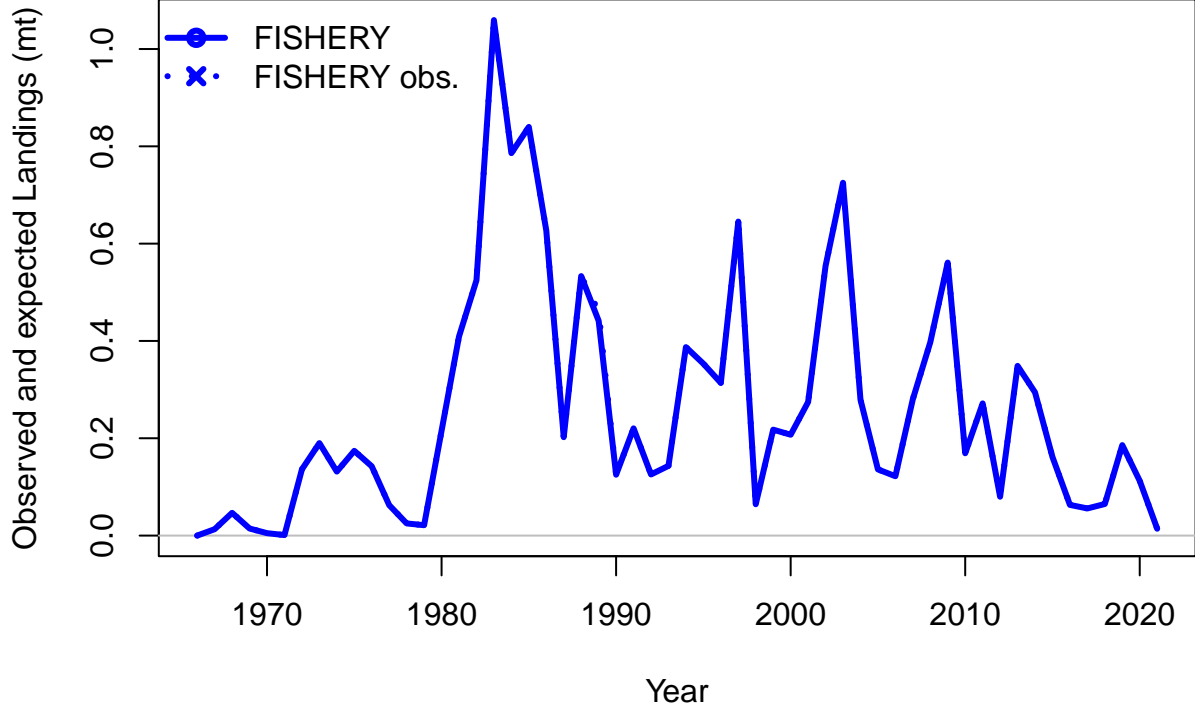


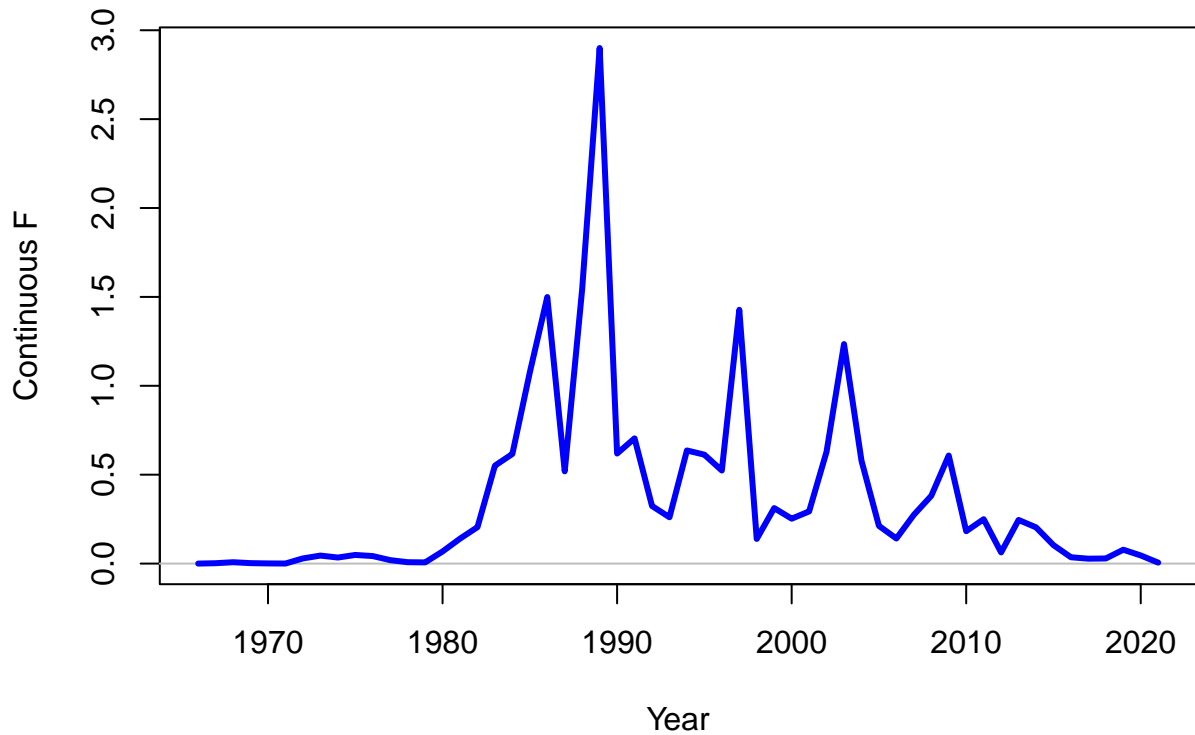




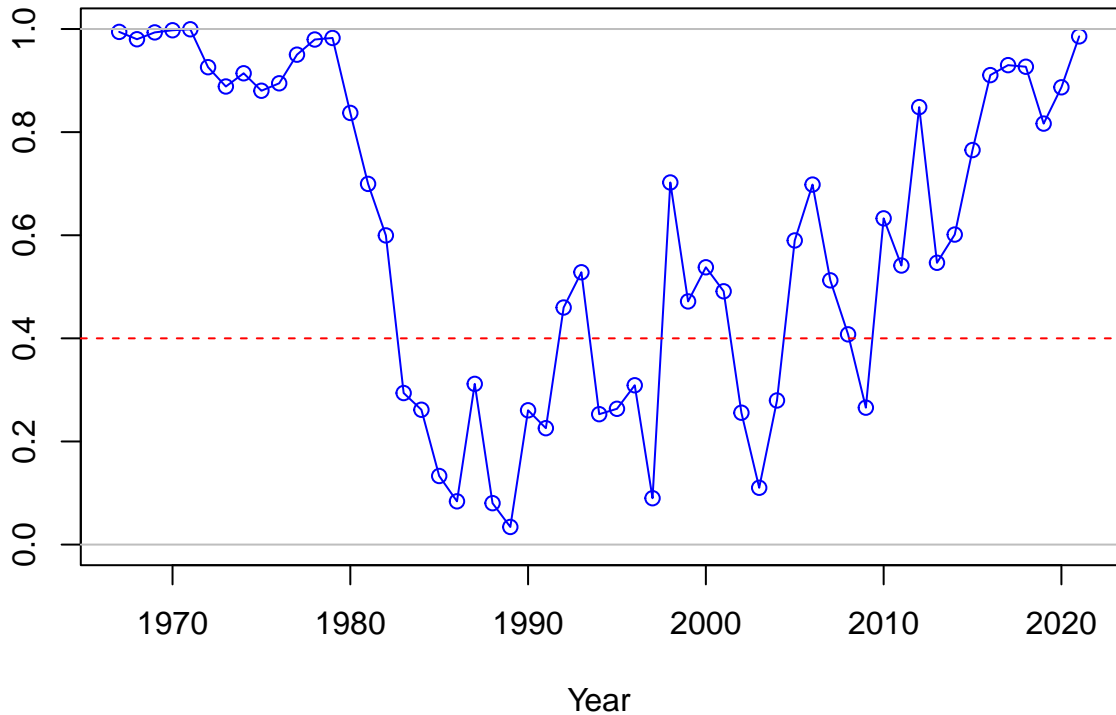


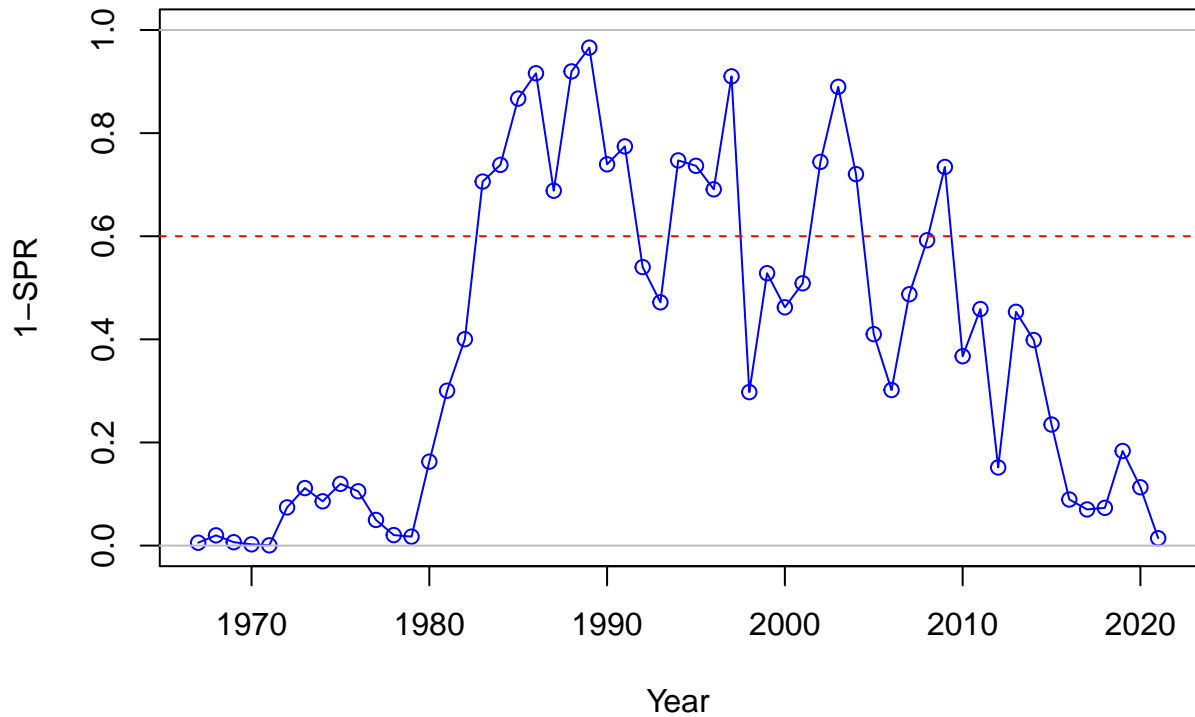




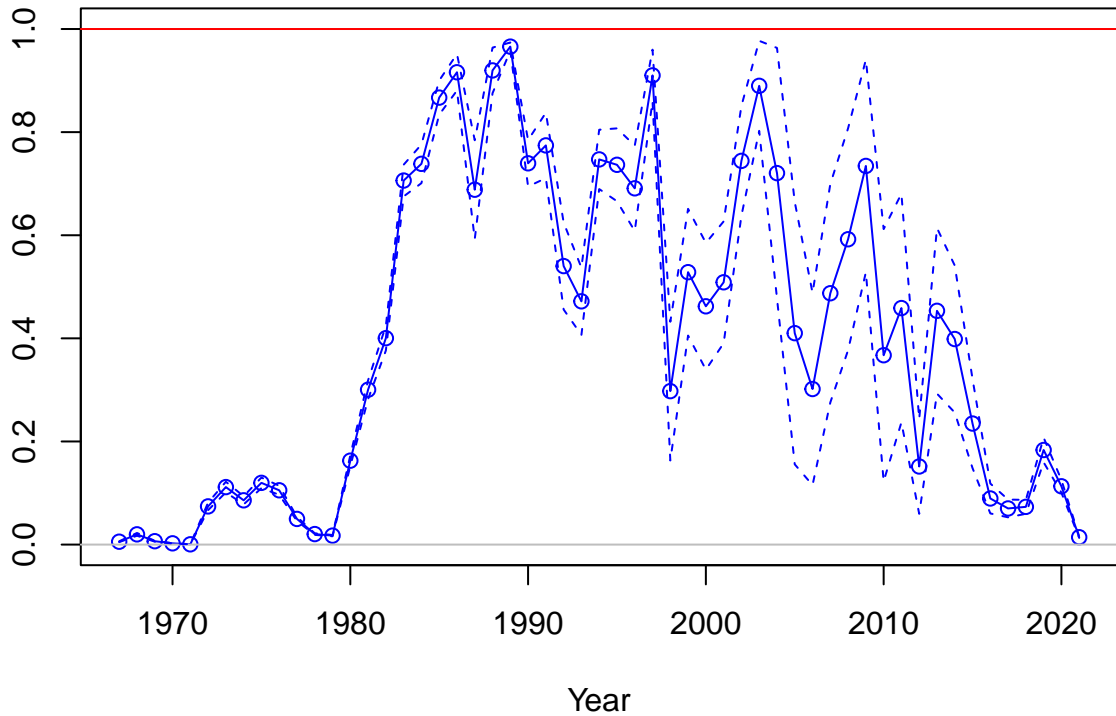


SPR

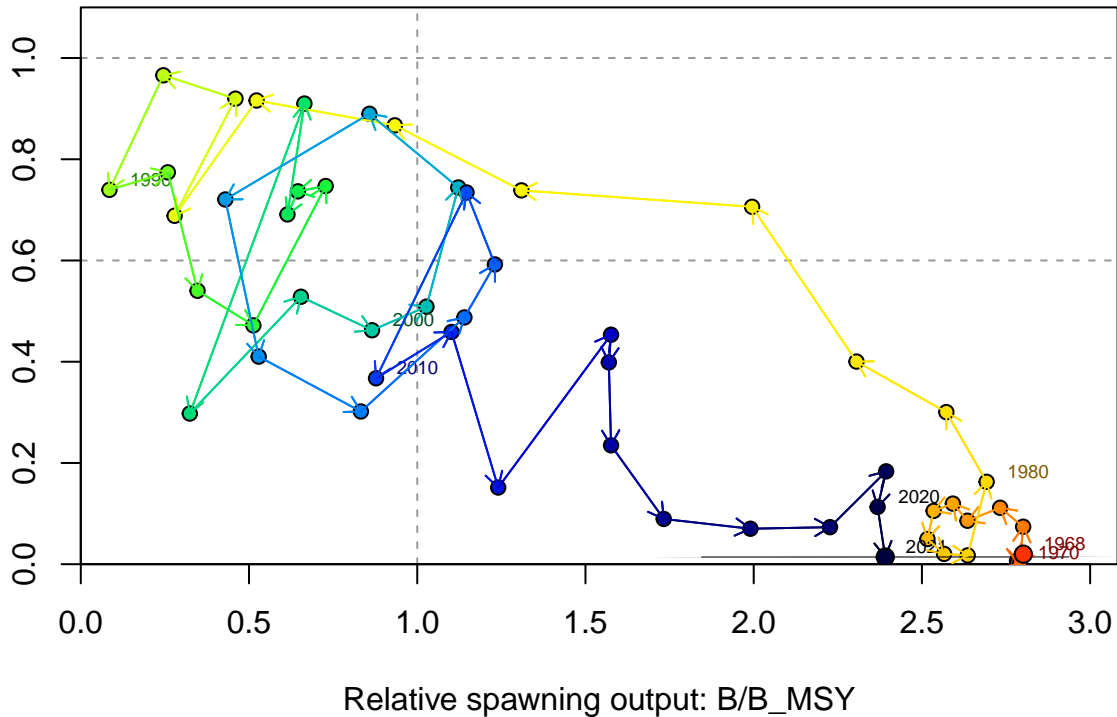




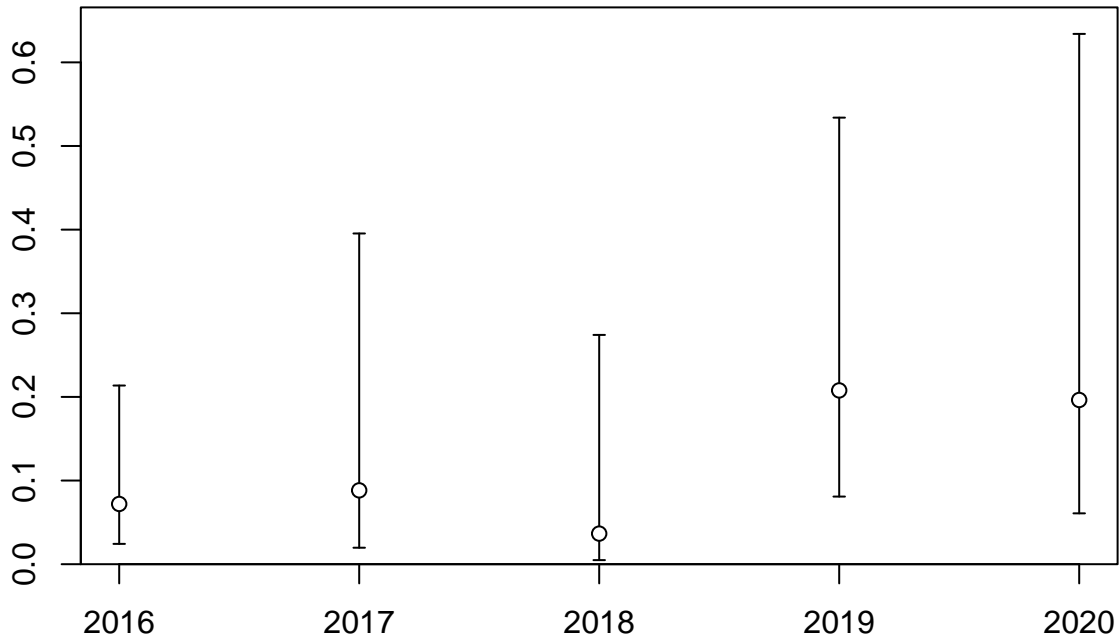
Fishing intensity: 1-SPR



Fishing intensity: 1-SPR

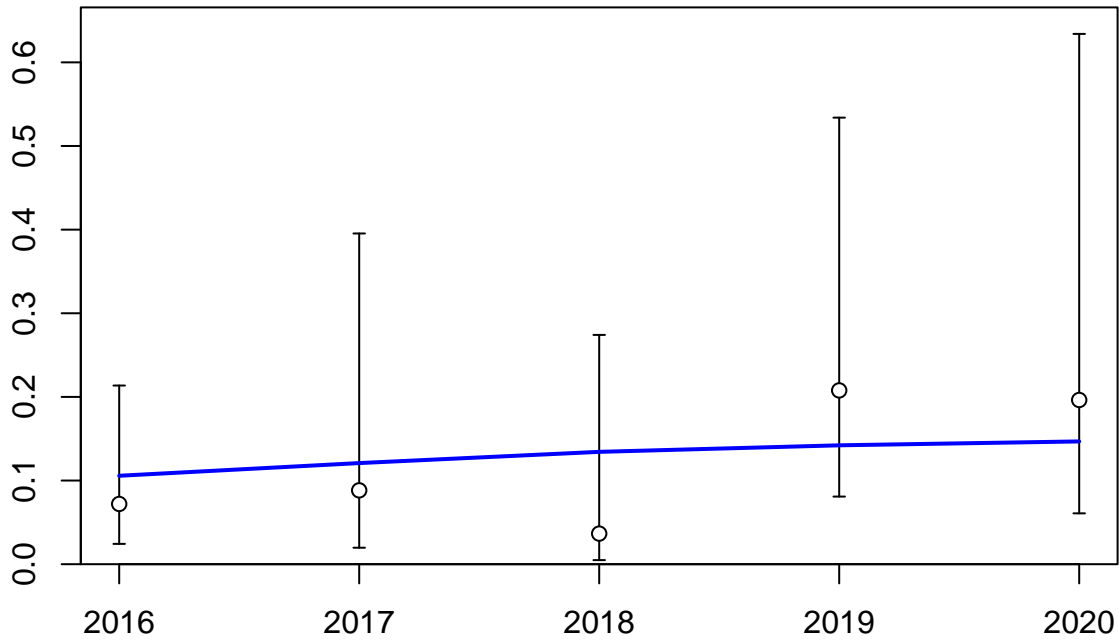


Index

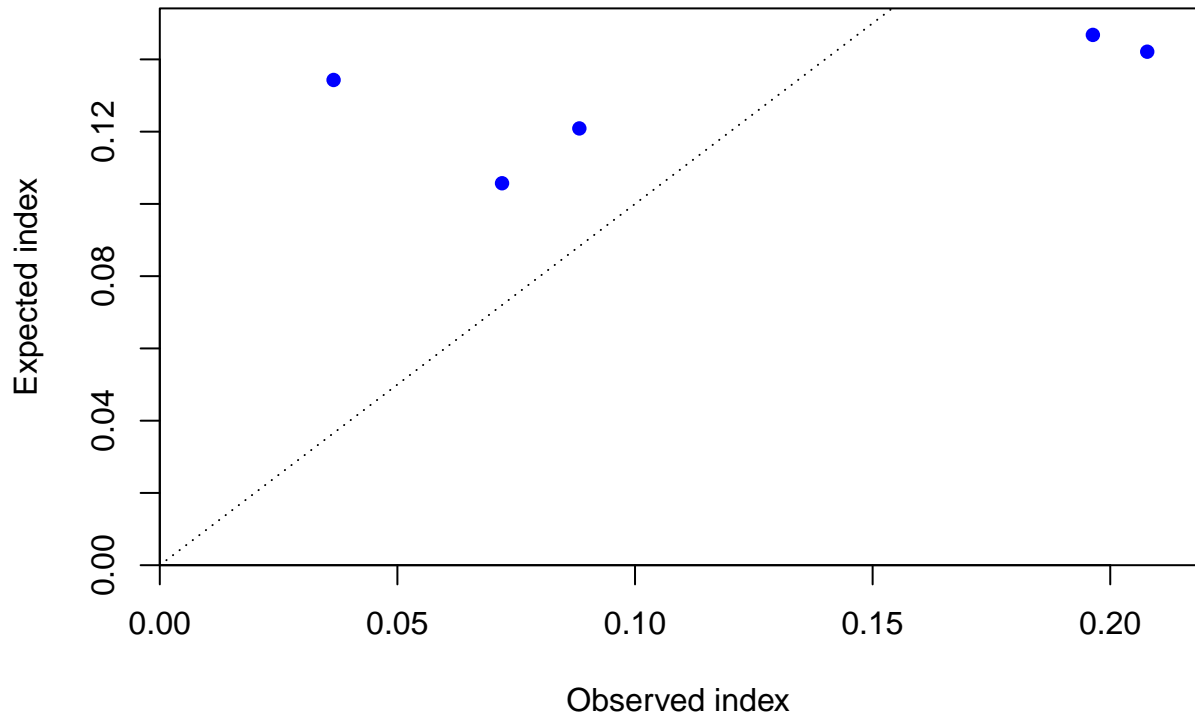


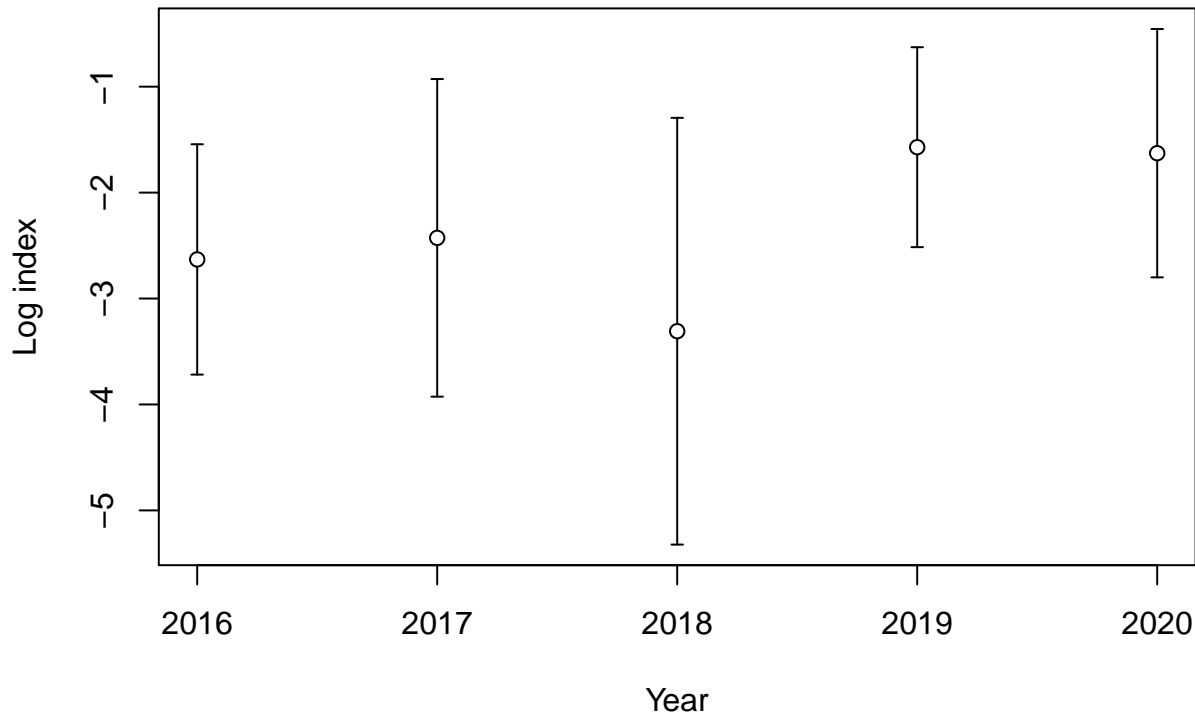
Year

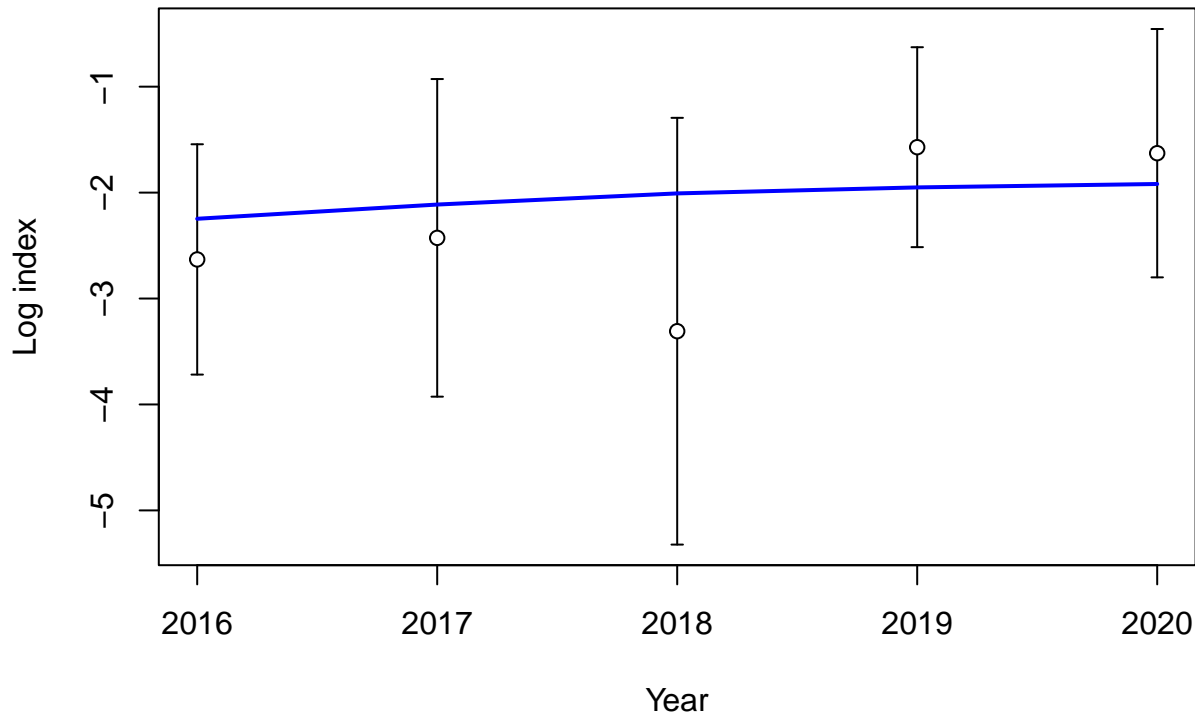
Index

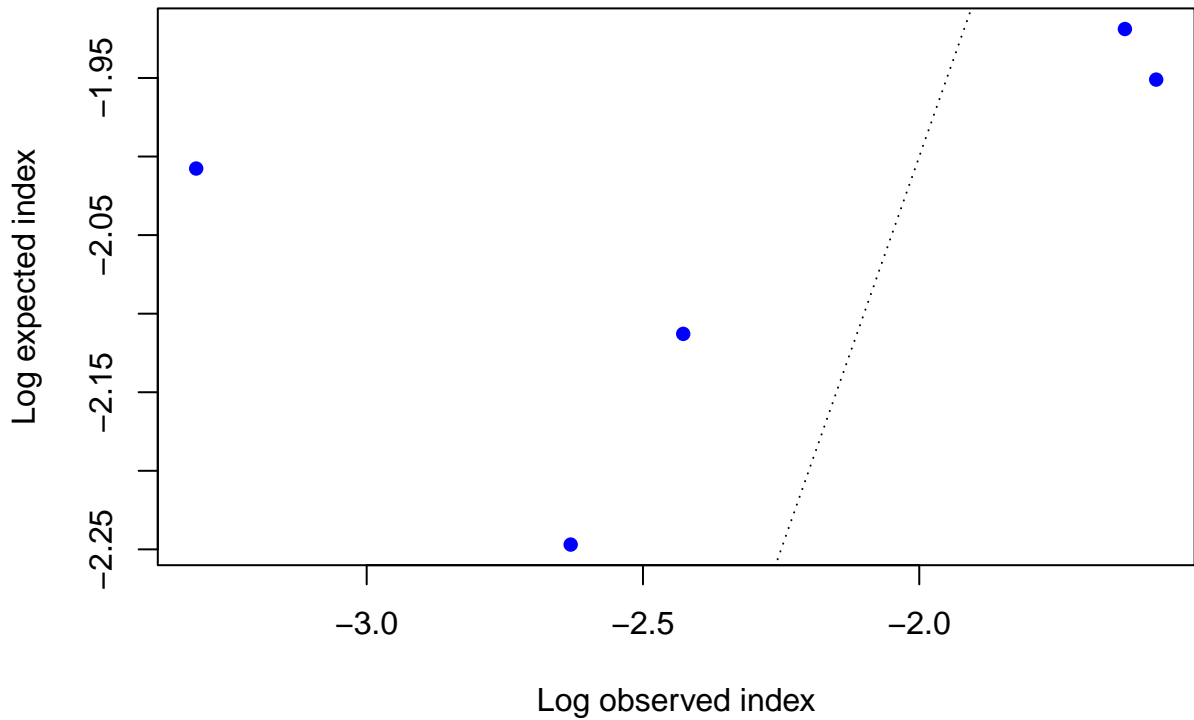


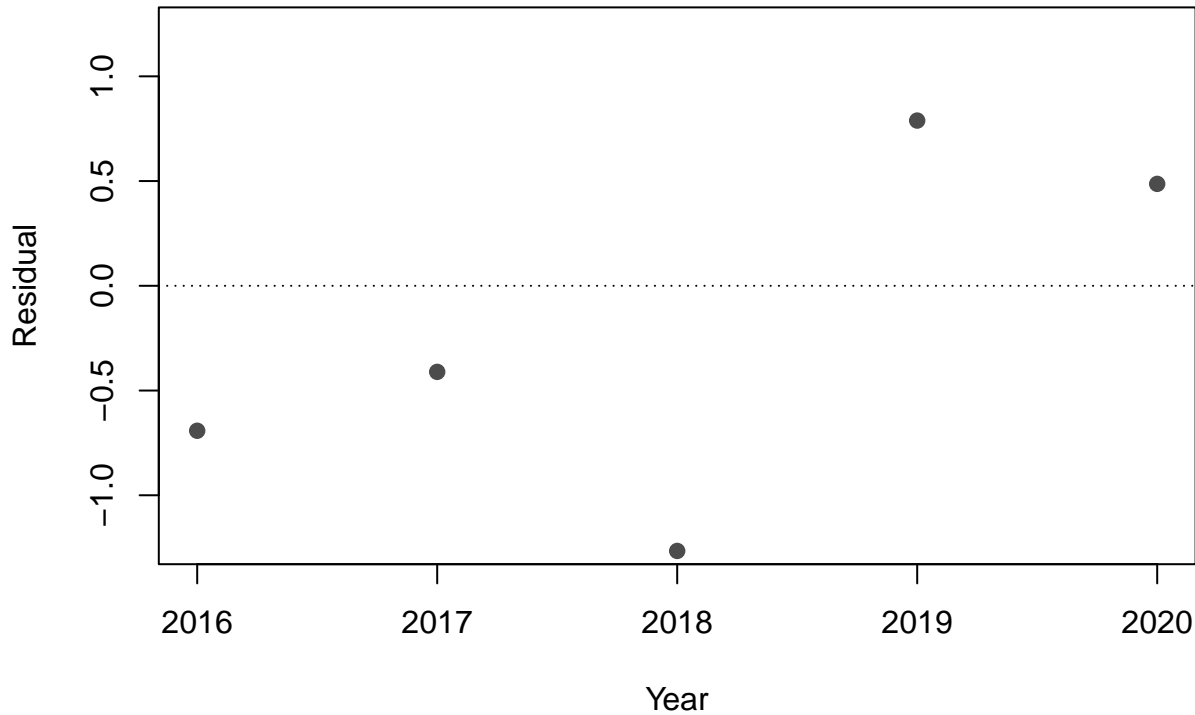
Year

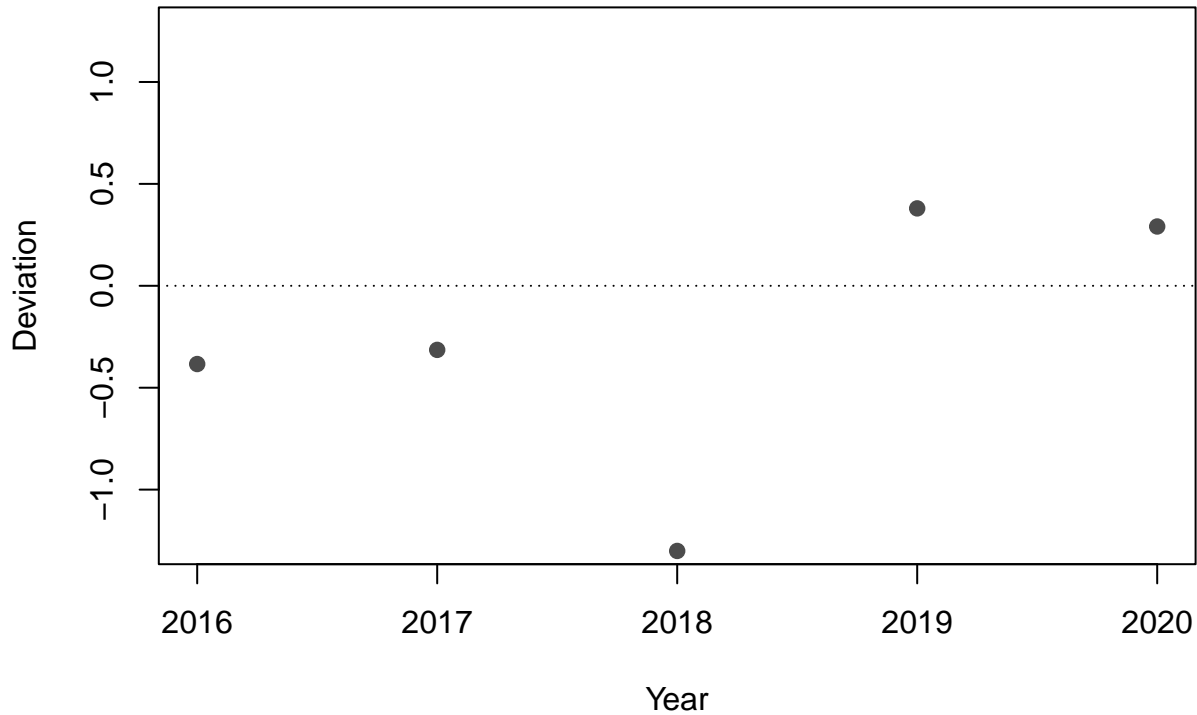


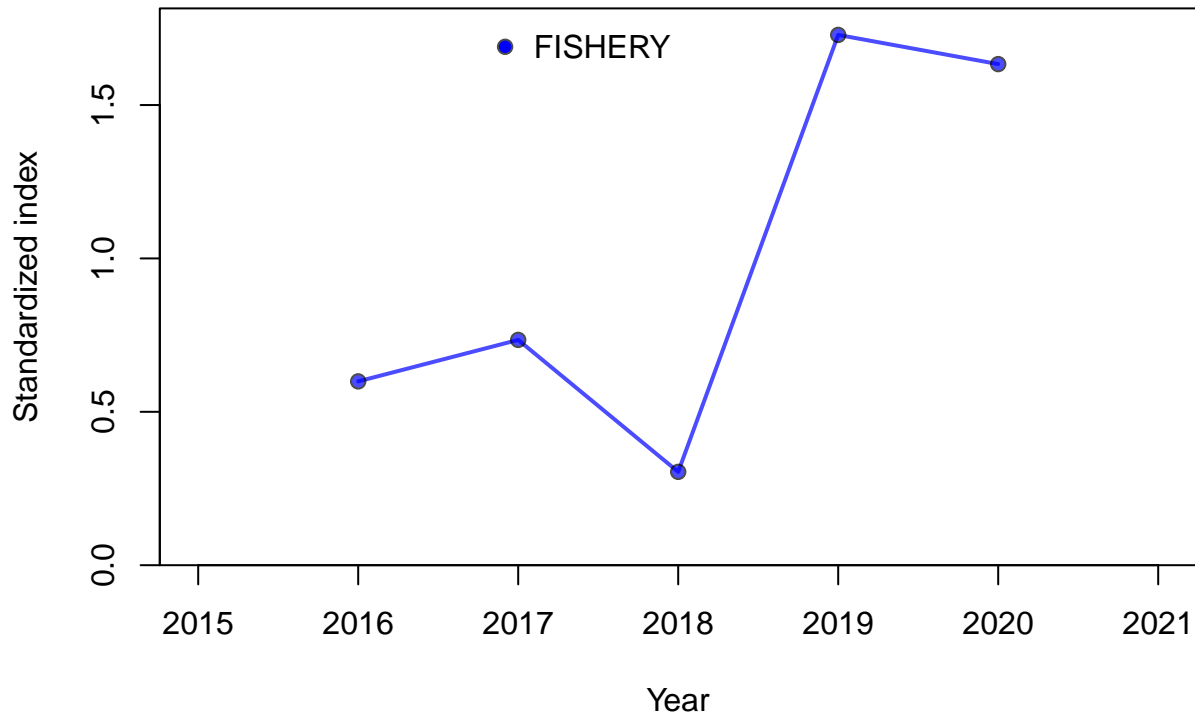




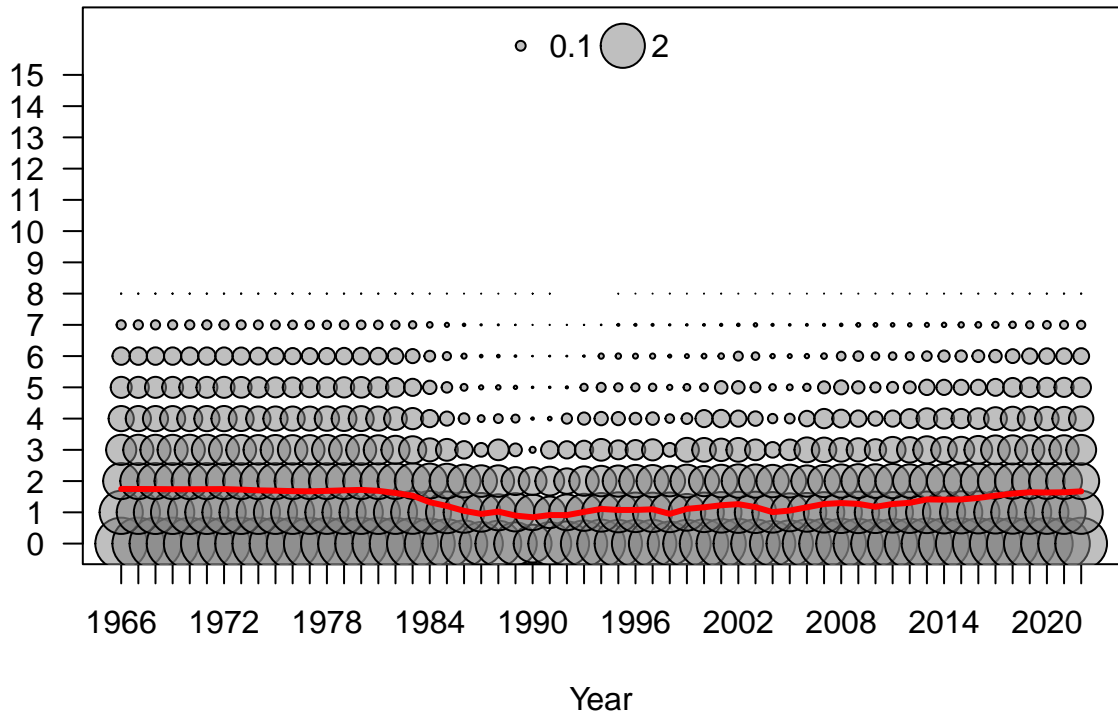


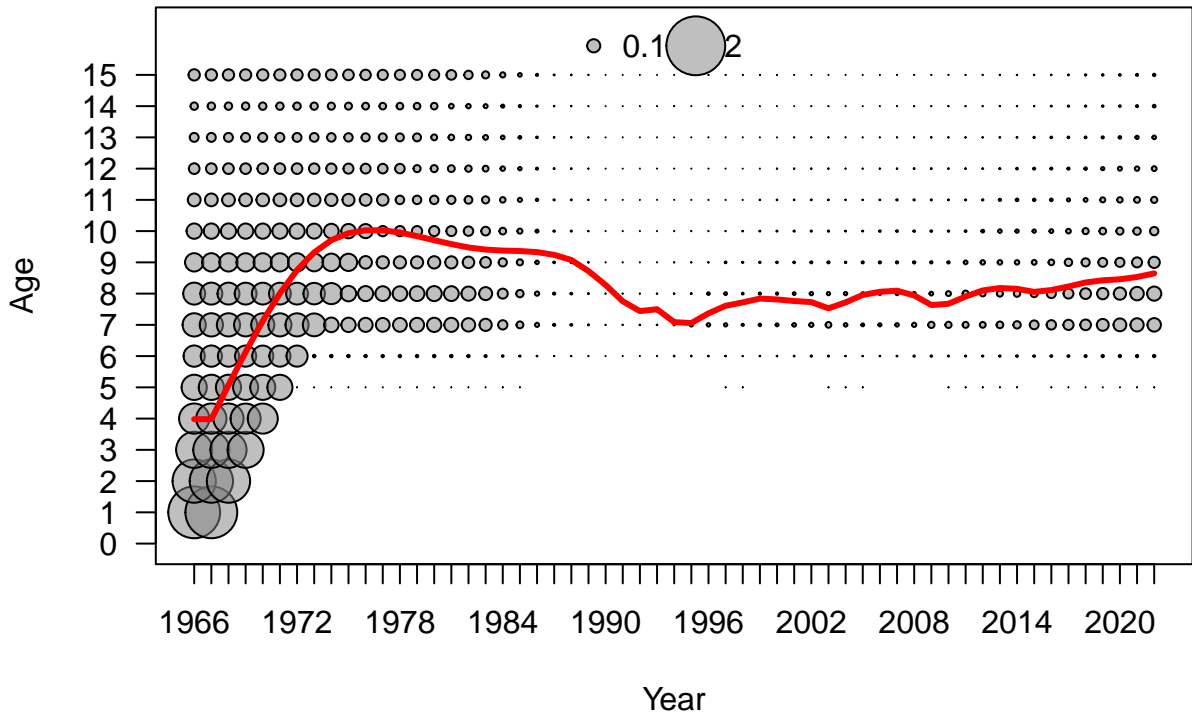


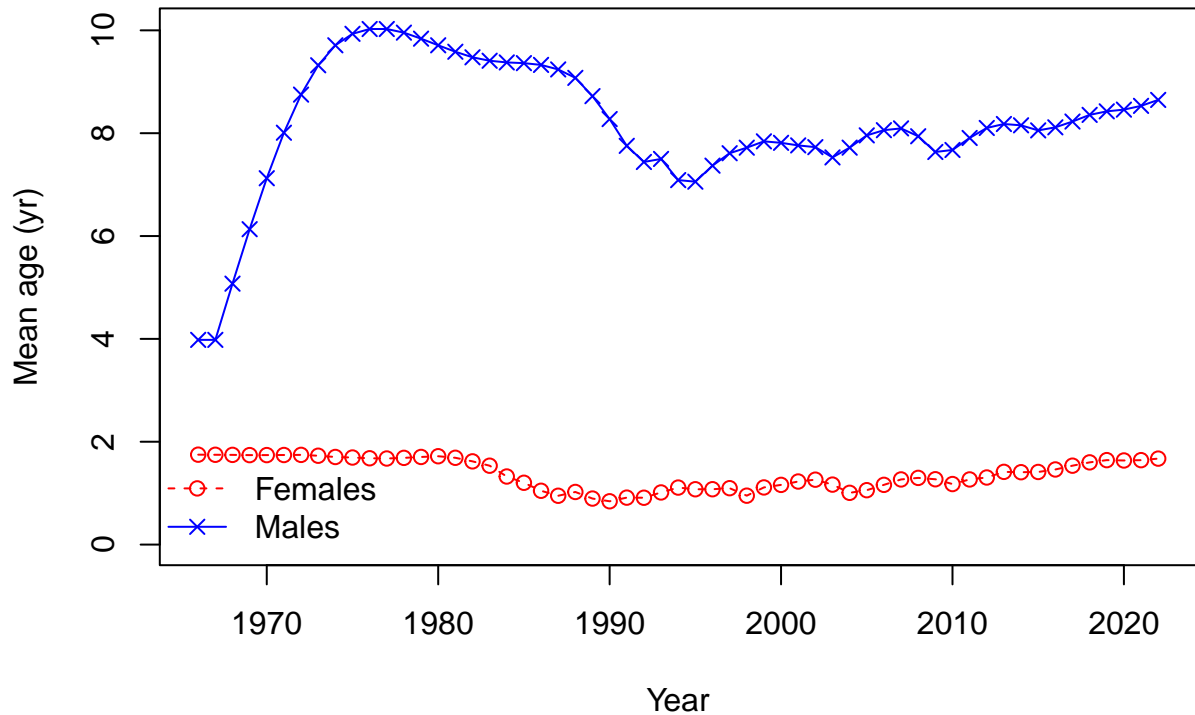


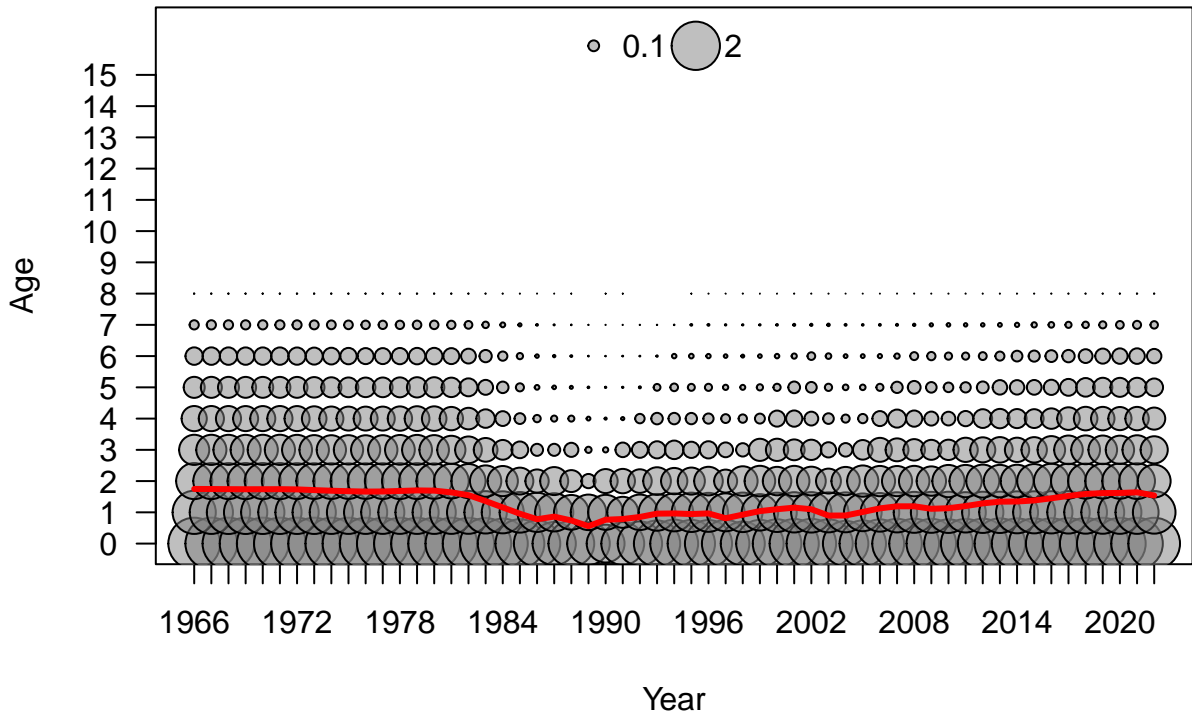


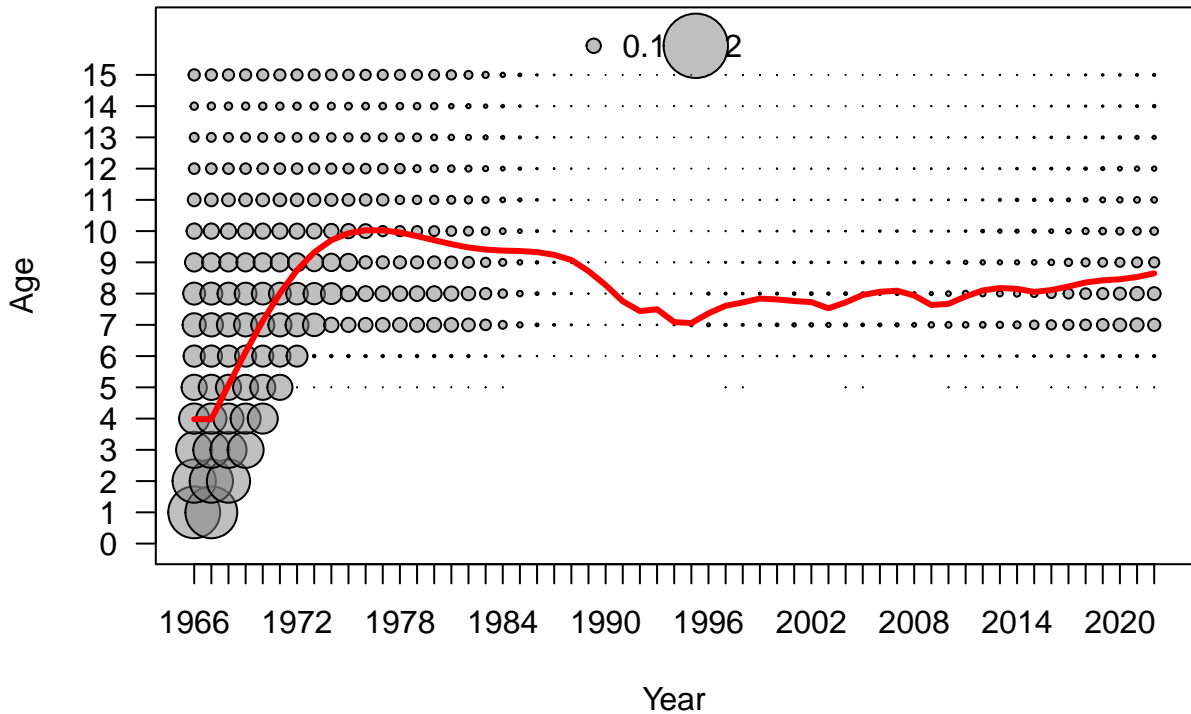
Age

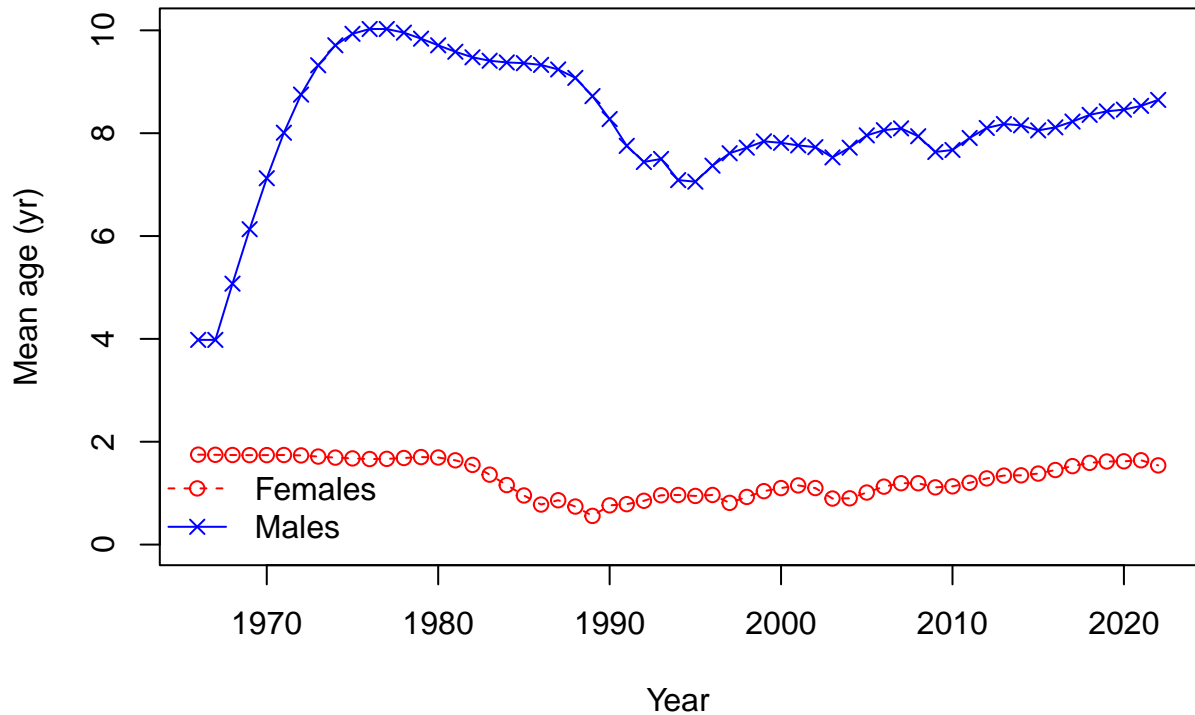












Age

14
12
10
8
6
4
2
0

1970

1980

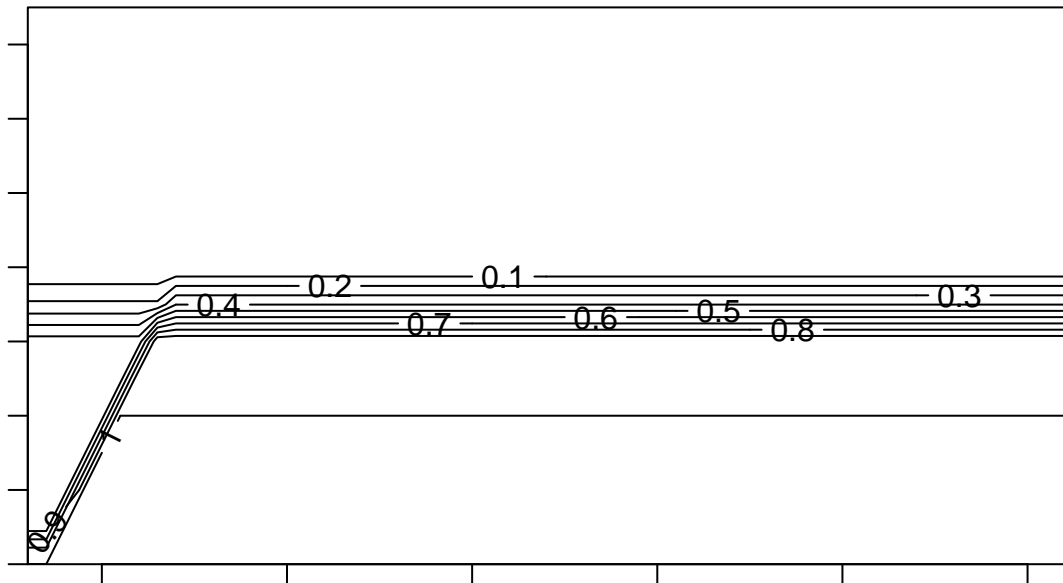
1990

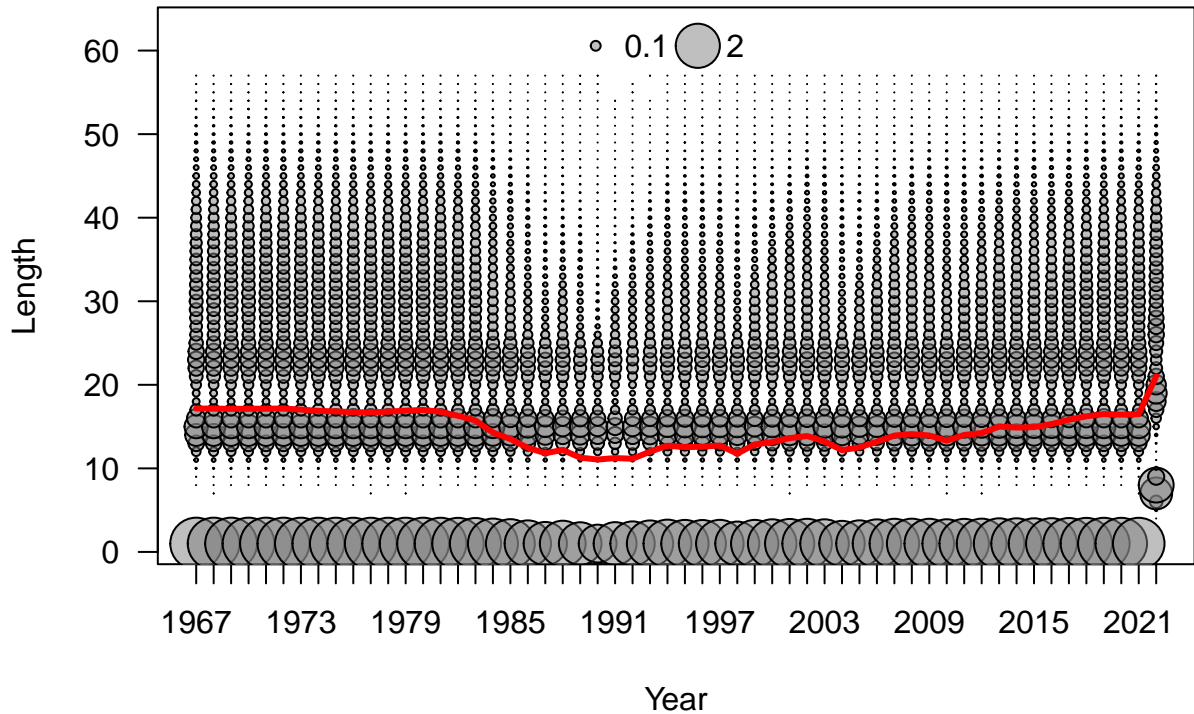
2000

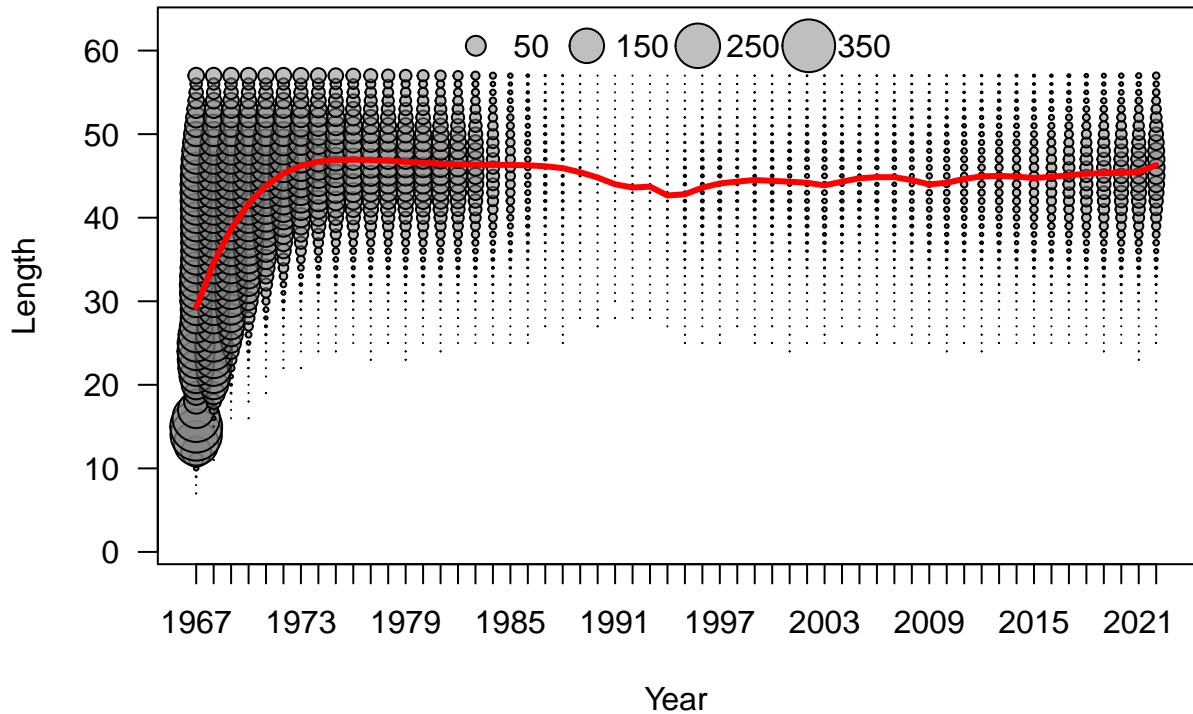
2010

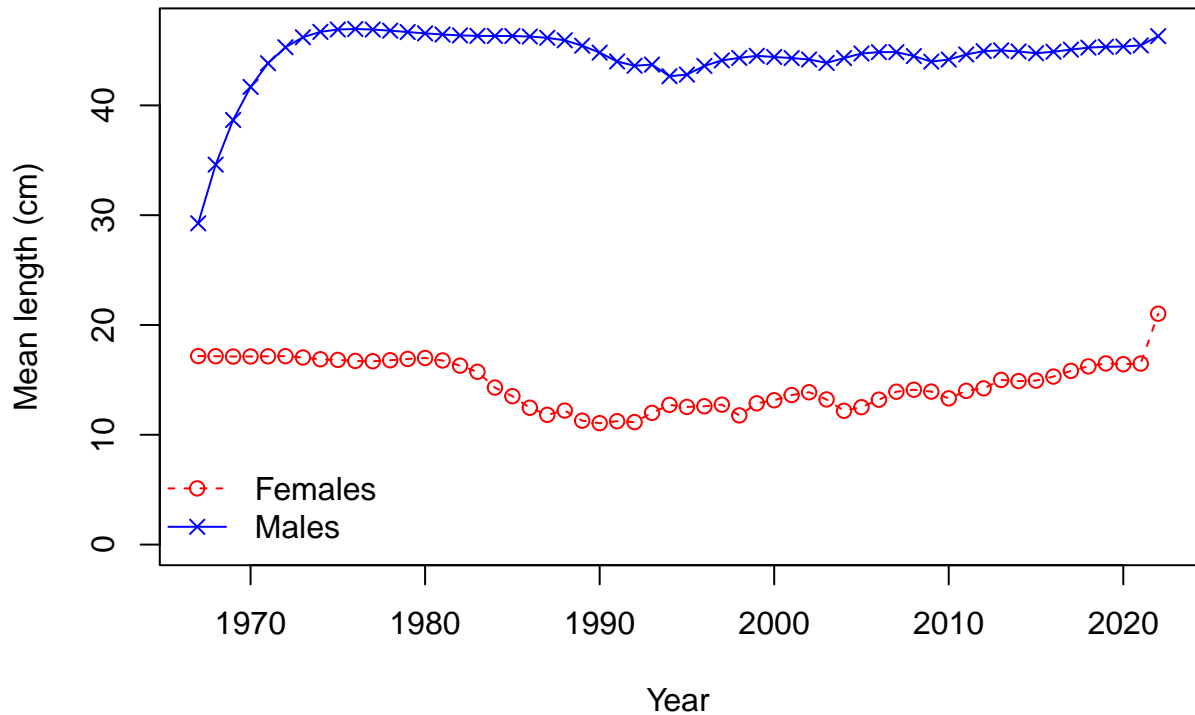
2020

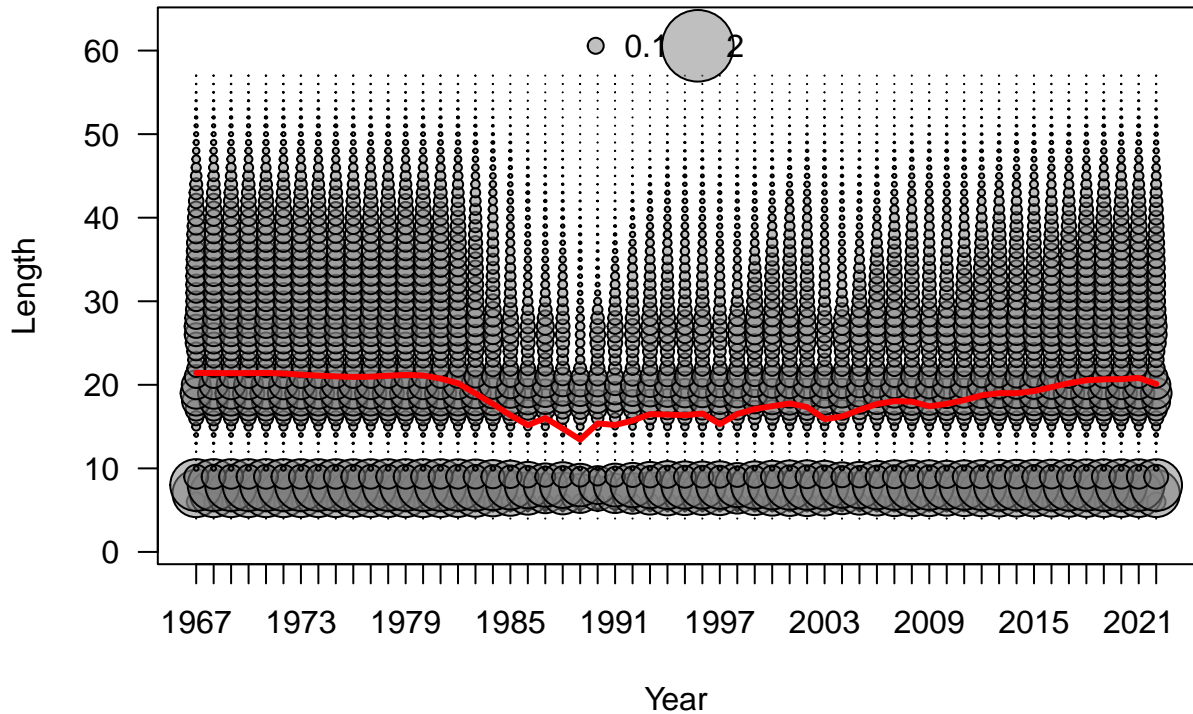
Year

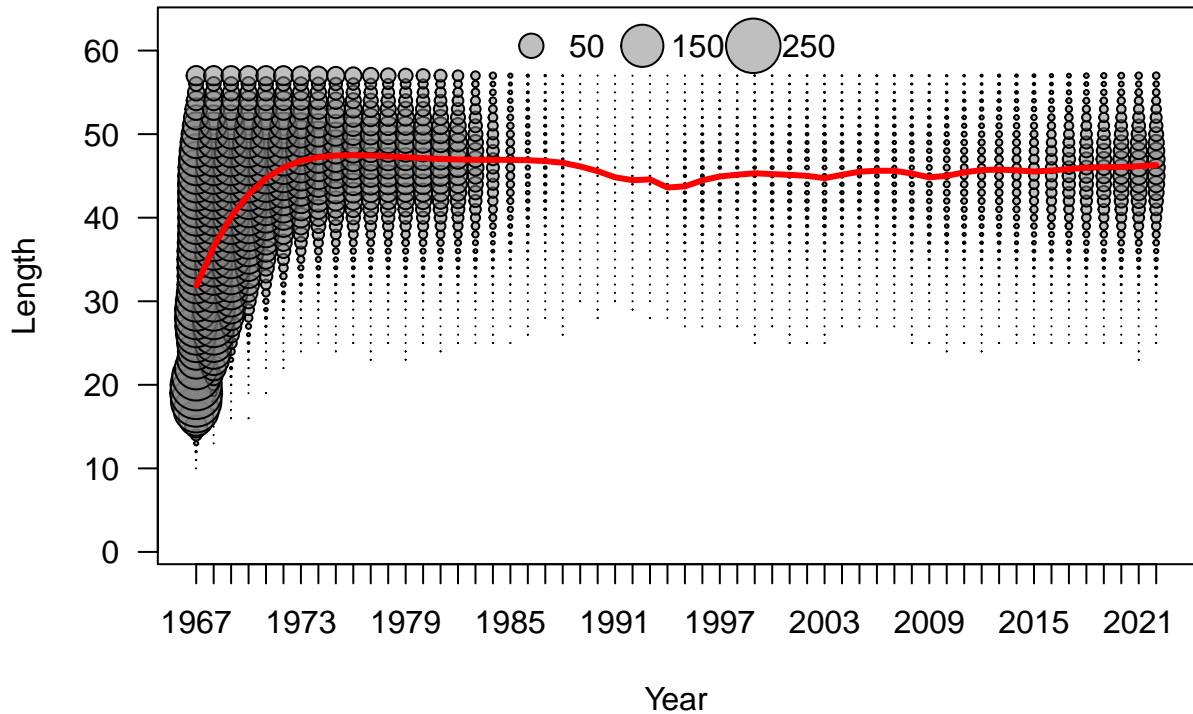


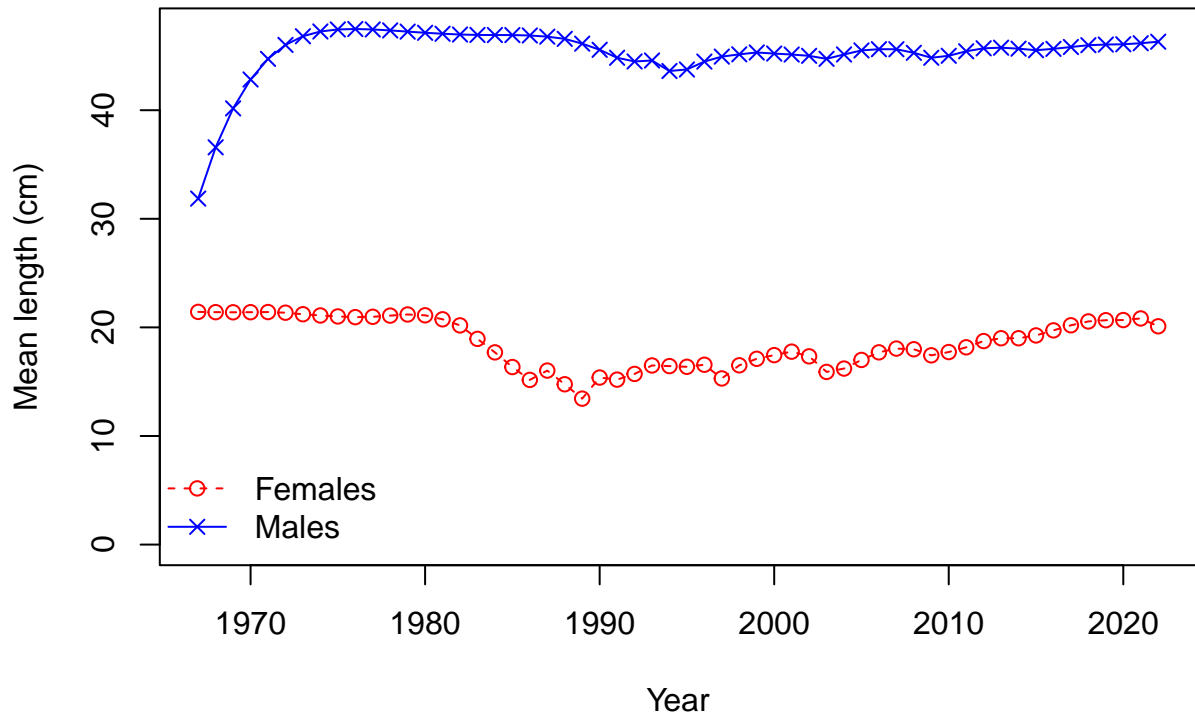




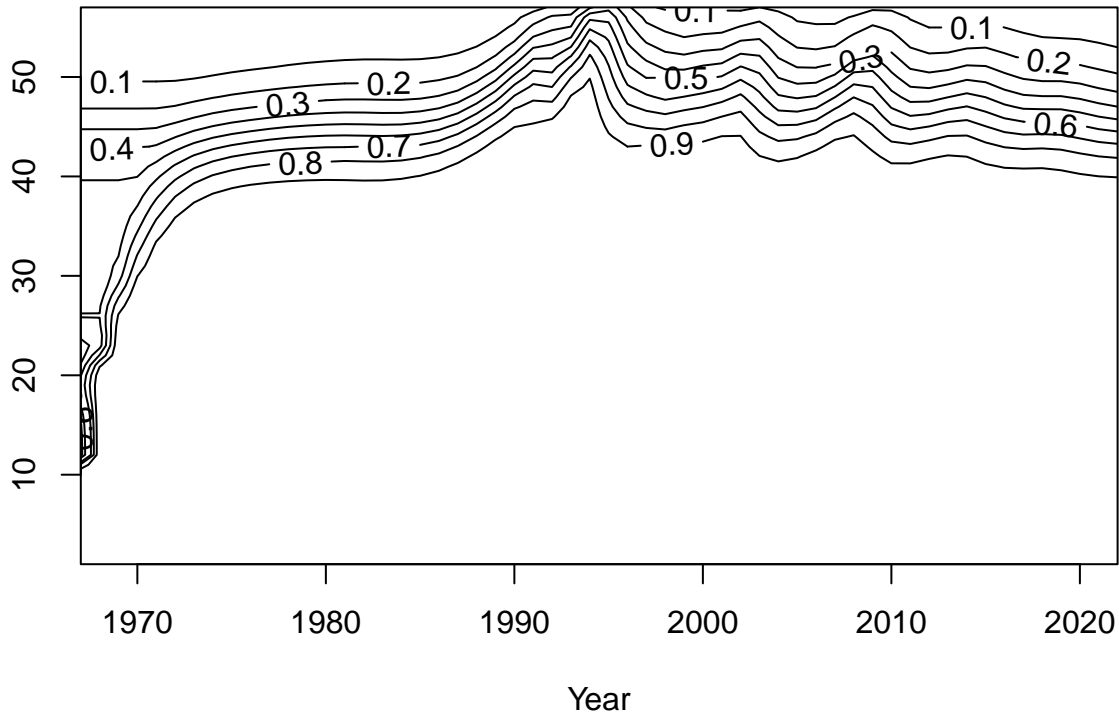




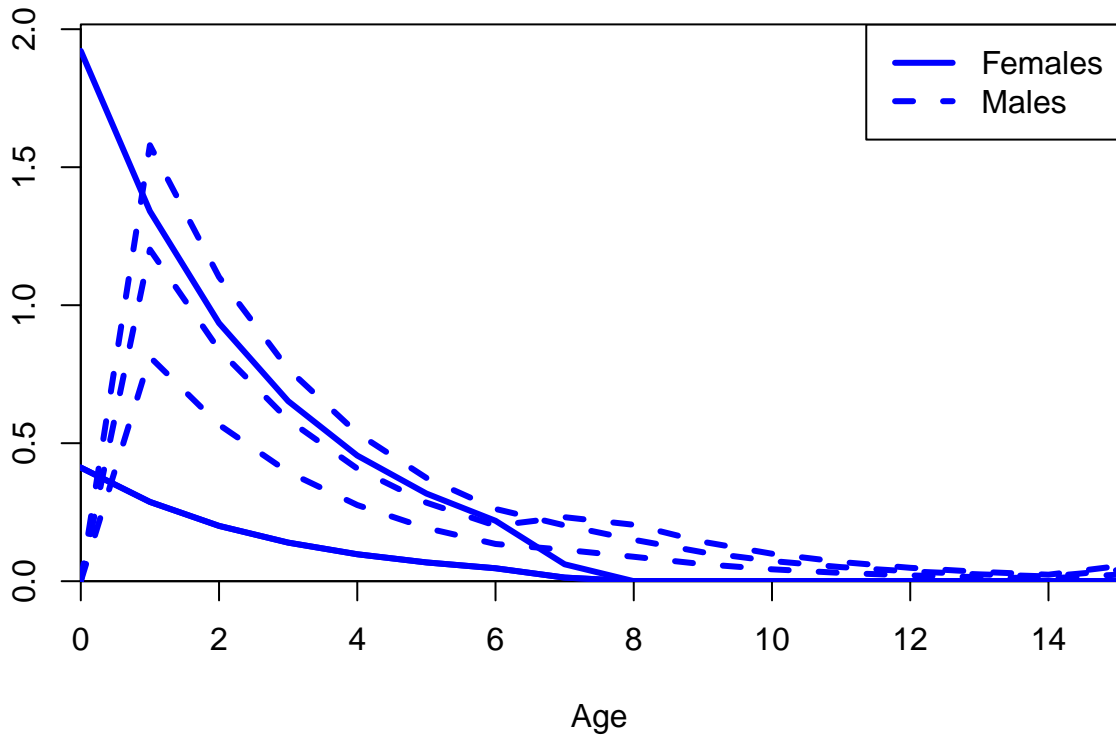




Length

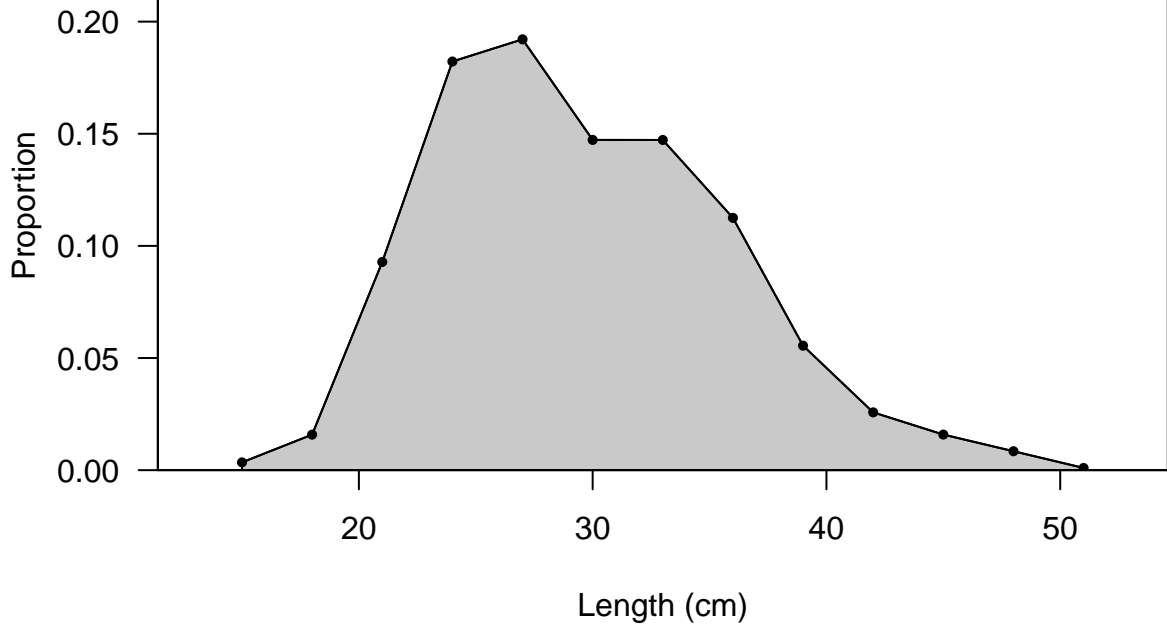


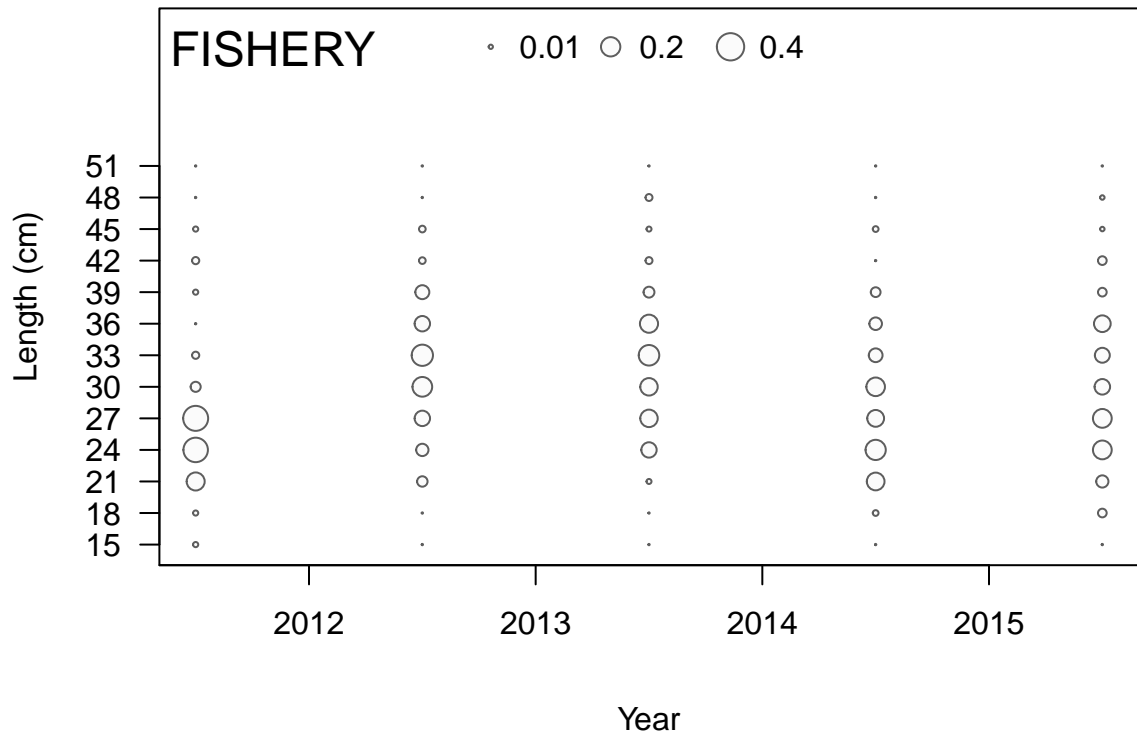
Numbers at age at equilibrium



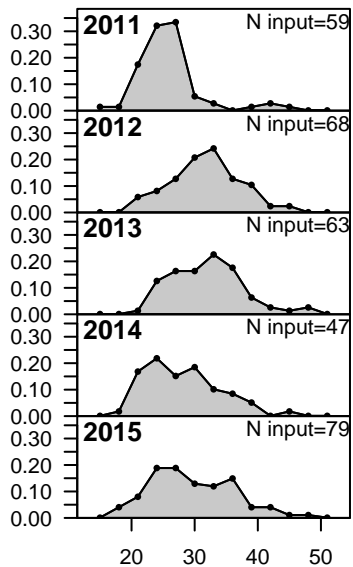
FISHERY

Sum of N input=316

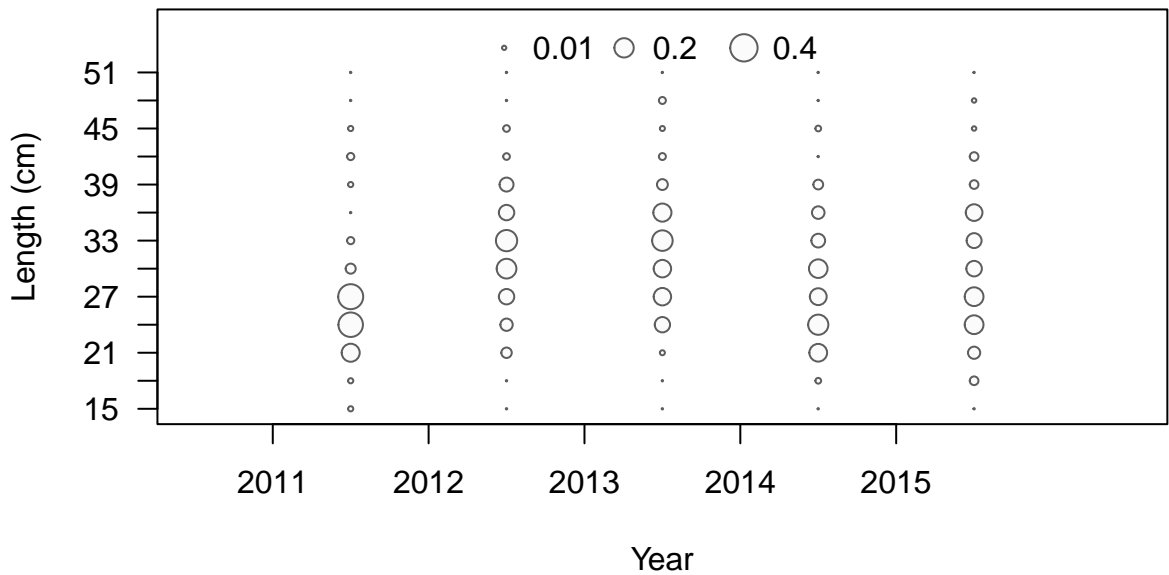




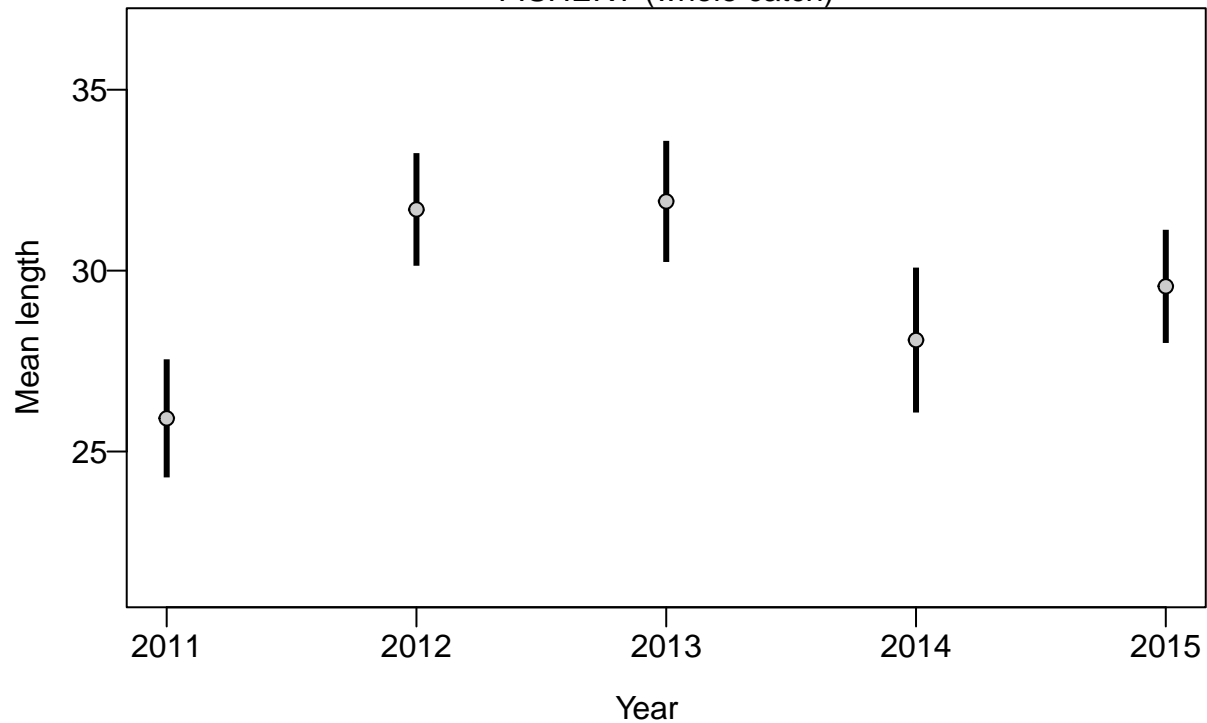
Proportion



Length (cm)

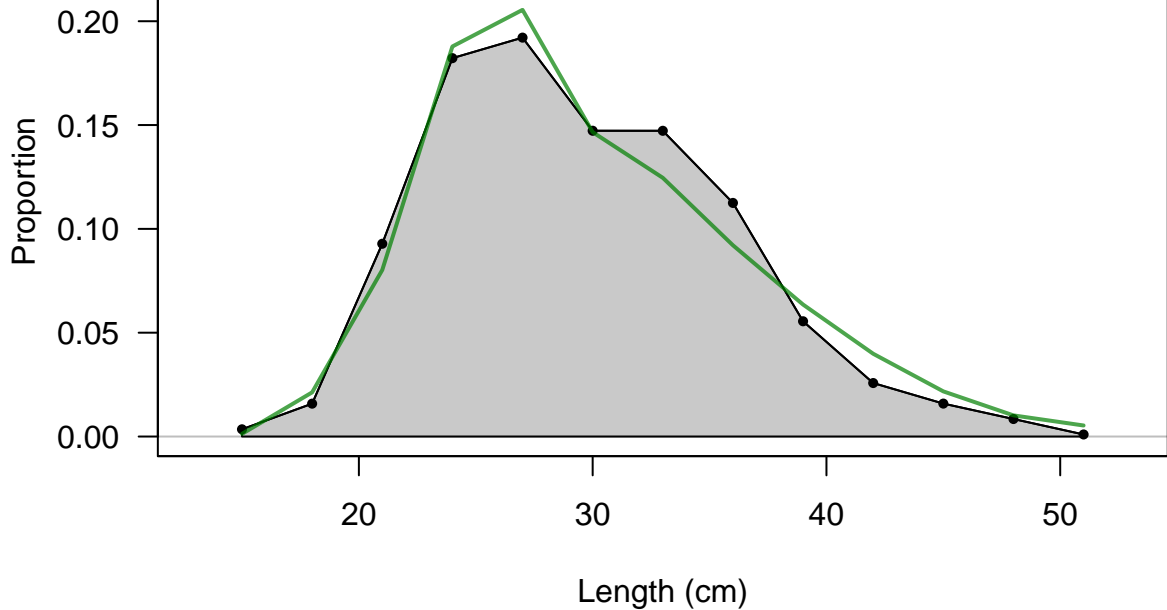


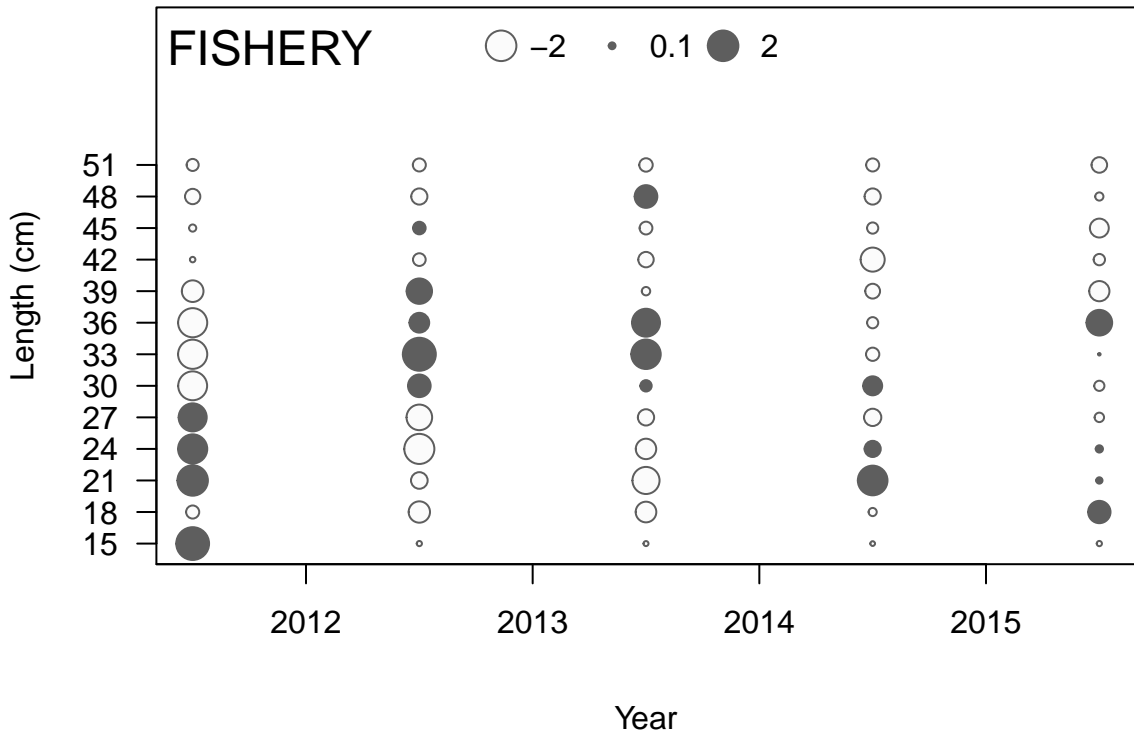
FISHERY (whole catch)



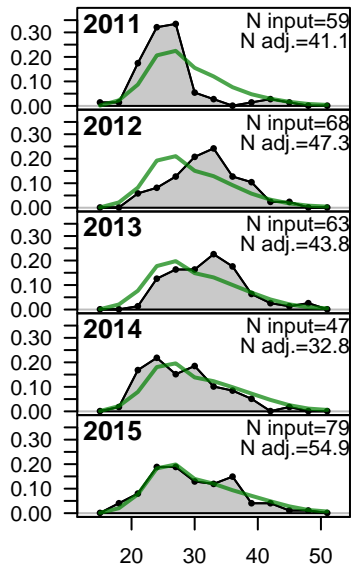
FISHERY

Sum of N input=316
Sum of N adj.=219.9

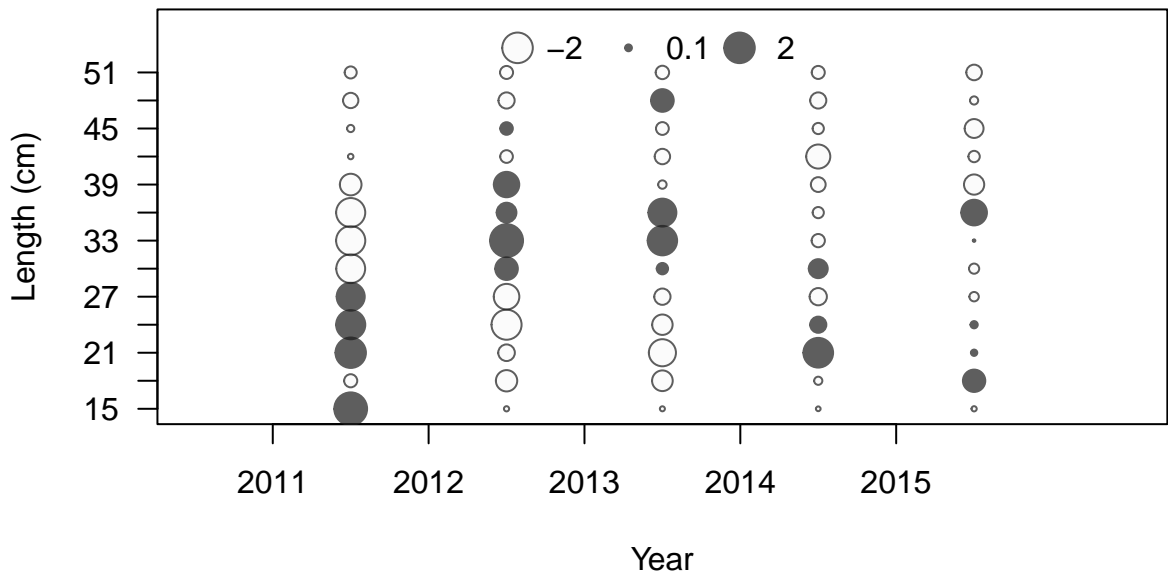




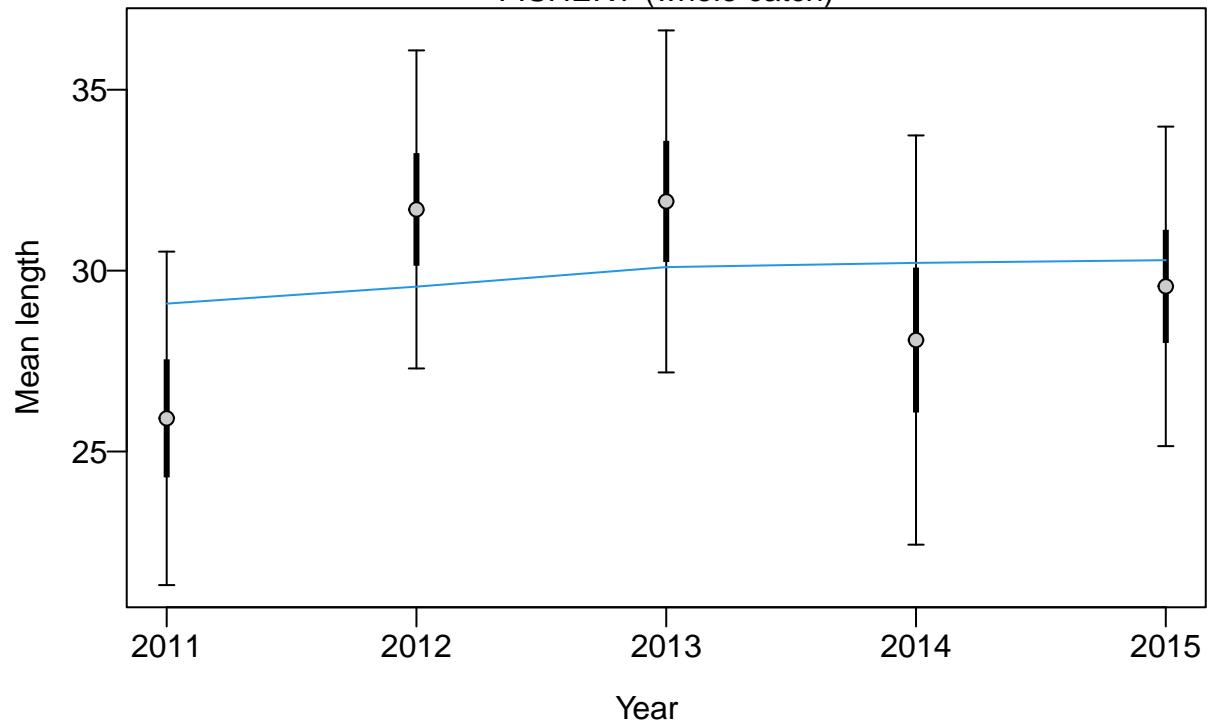
Proportion

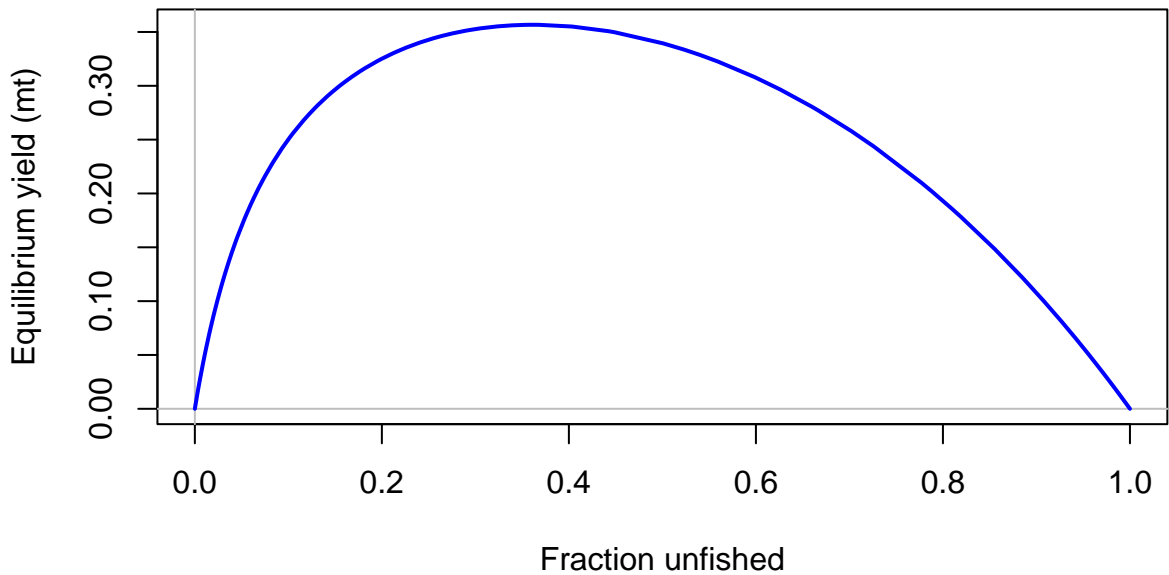


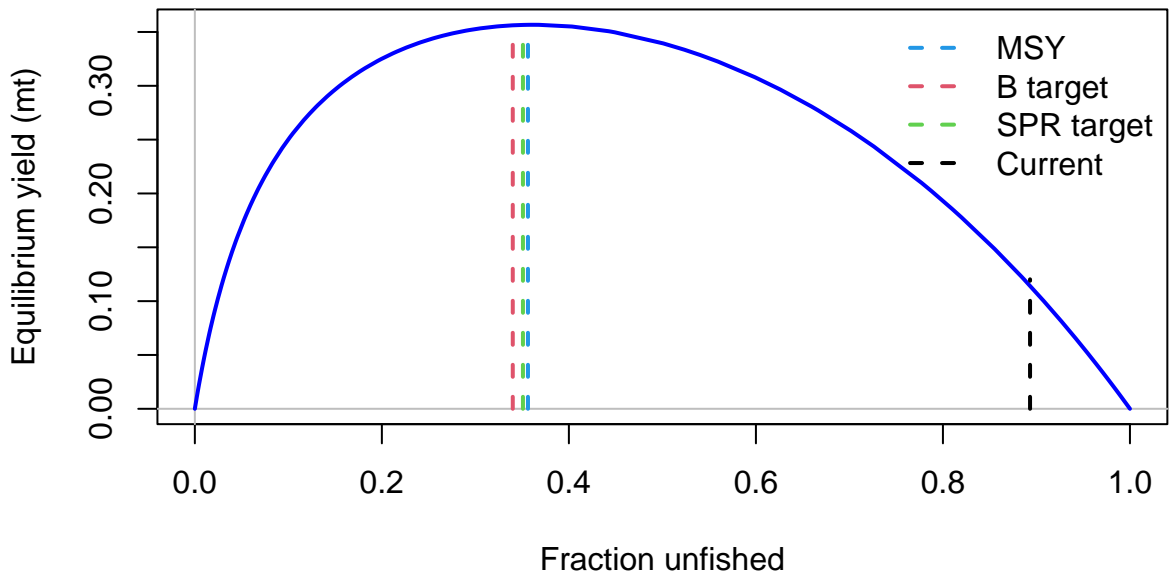
Length (cm)

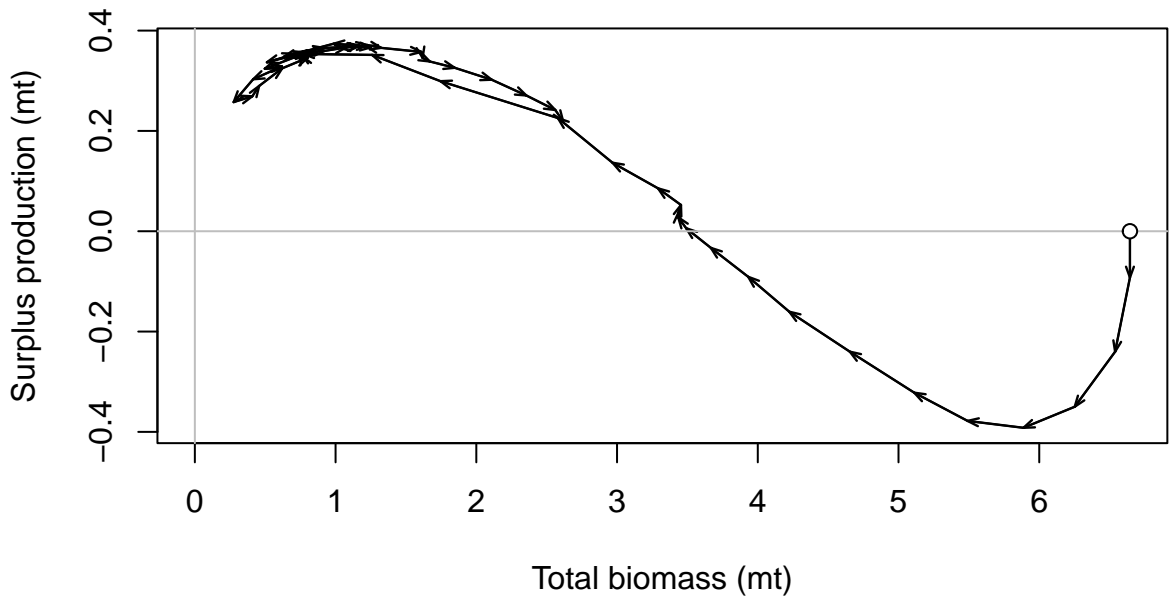


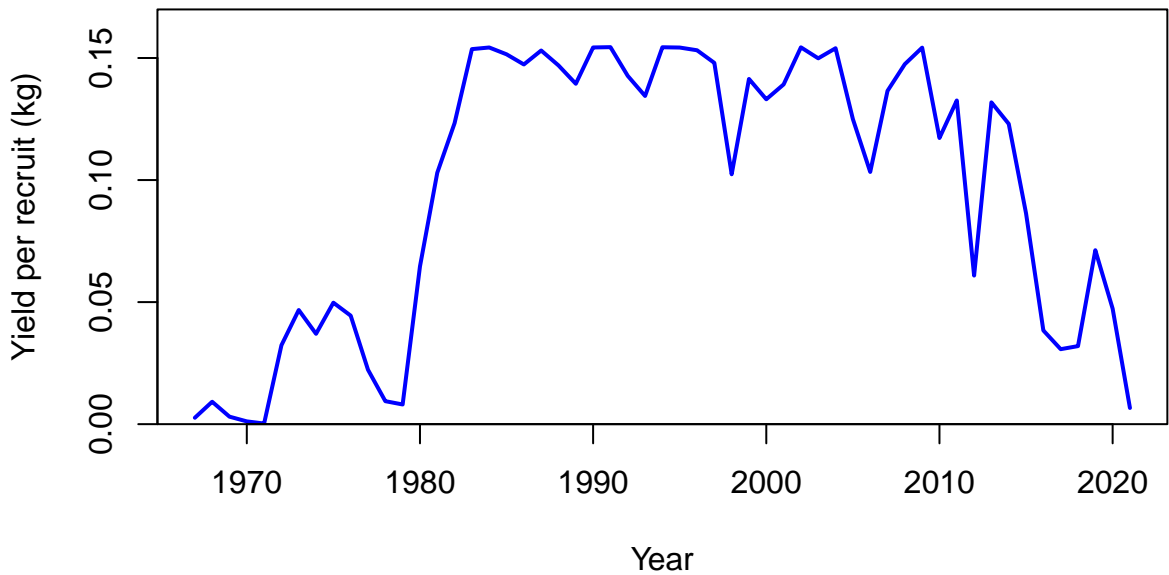
FISHERY (whole catch)

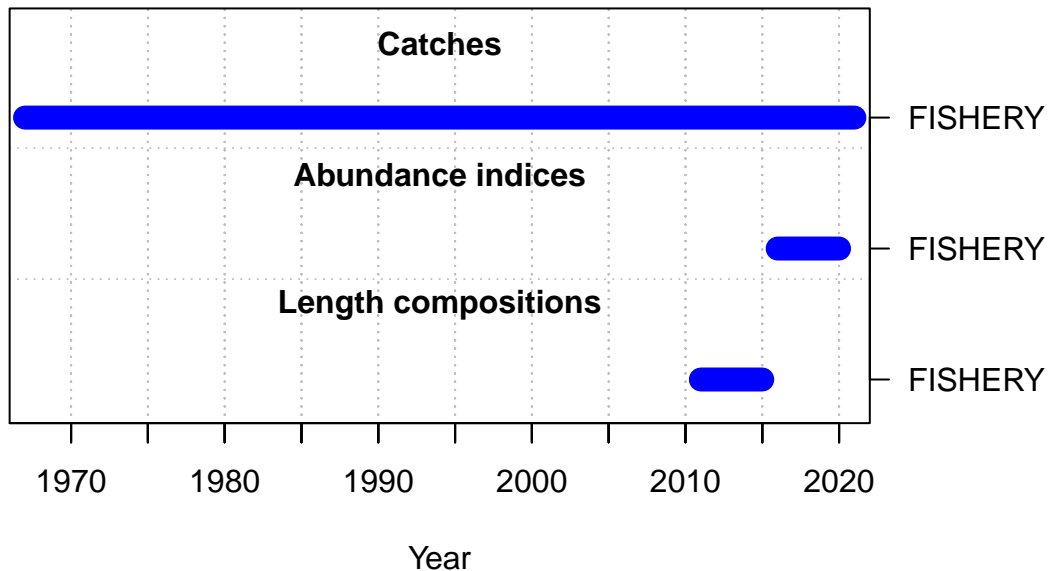


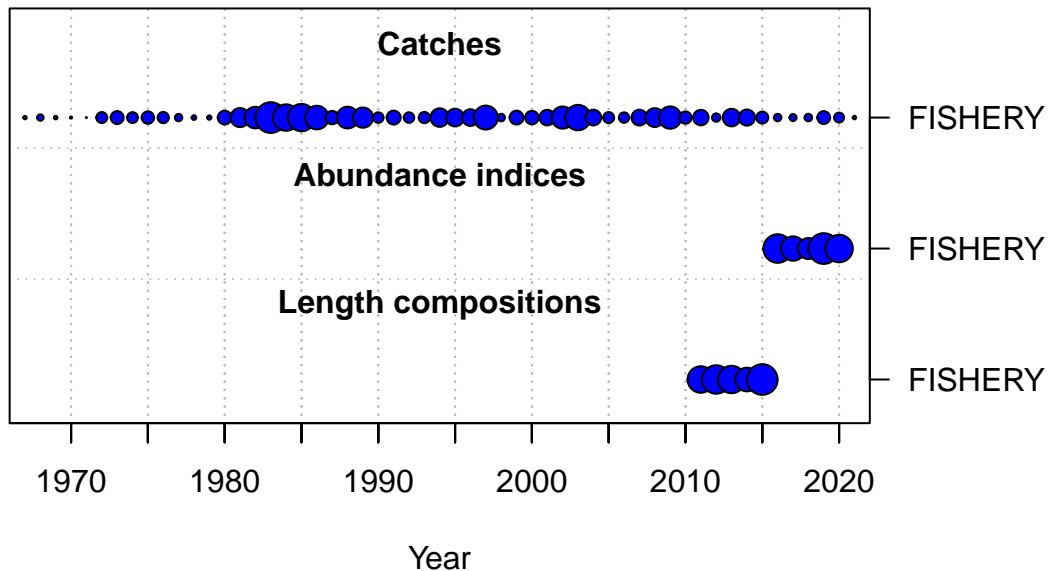


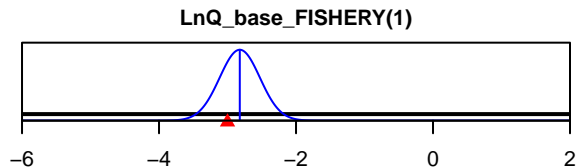
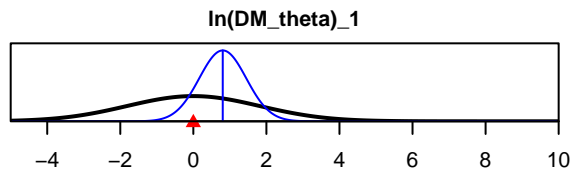
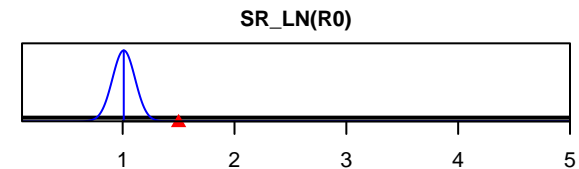
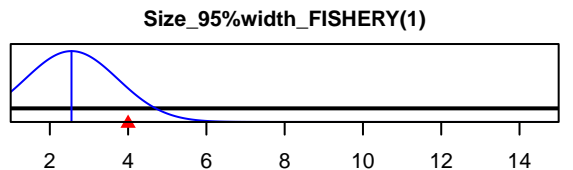
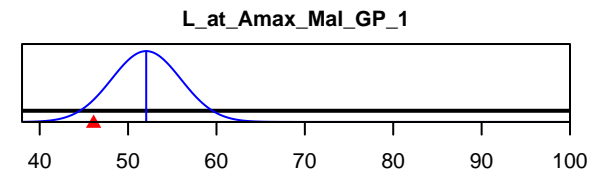
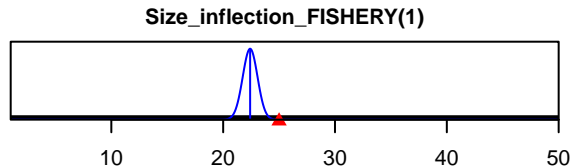
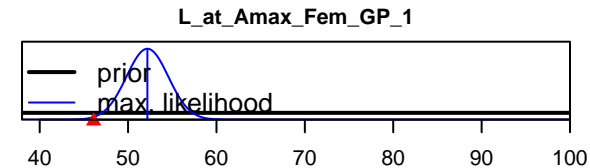












Parameter value