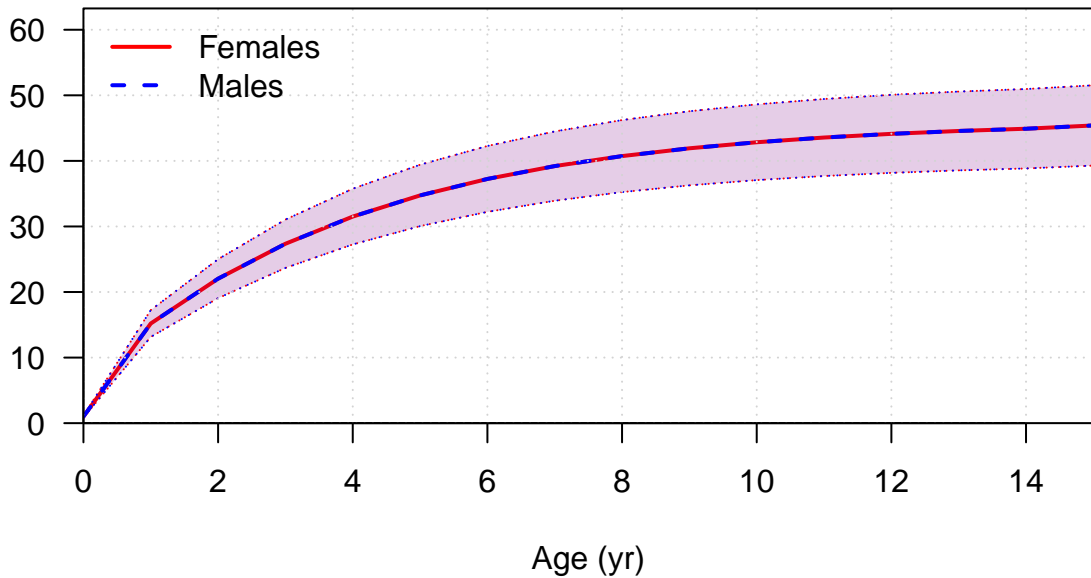
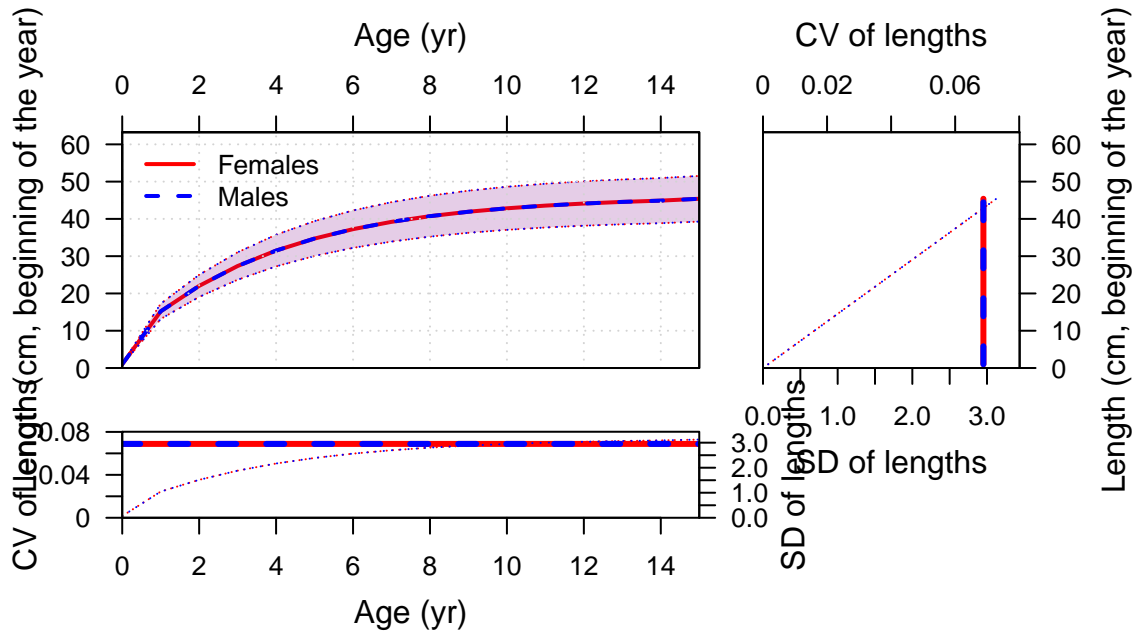
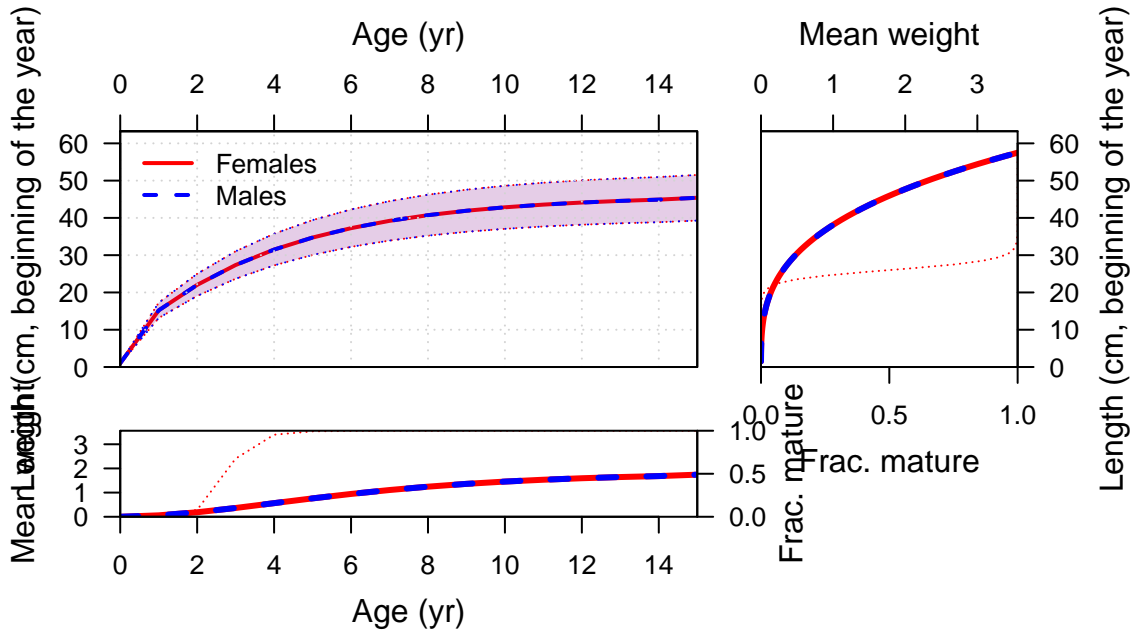


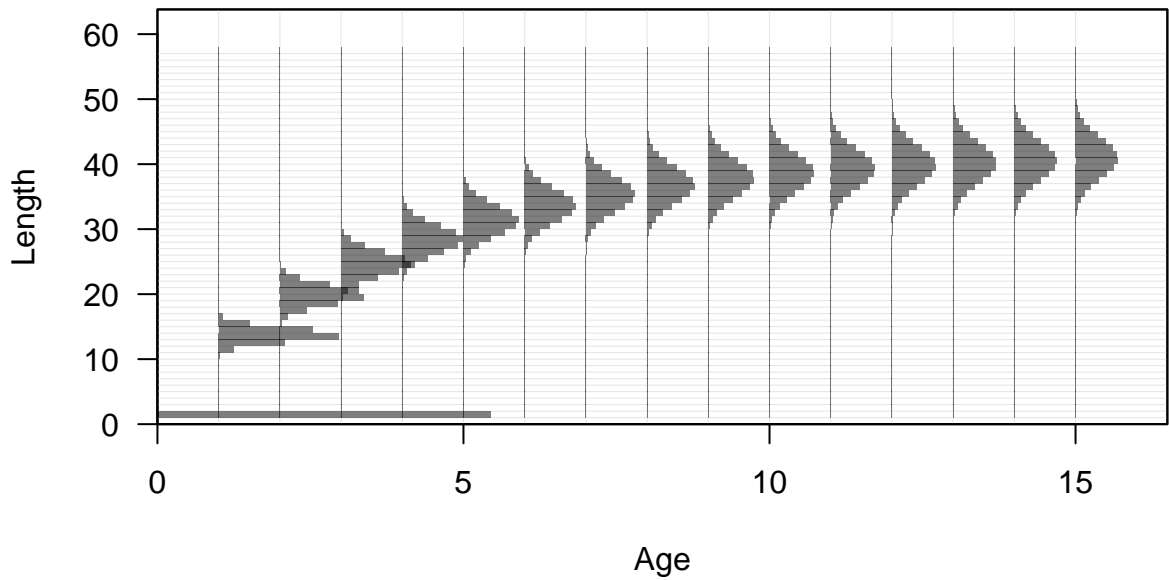
Plots created using the 'r4ss' package in R
Stock Synthesis version: 3.30.19.0
StartTime: Tue Jan 24 11:53:07 2023
Data_File: data.ss
Control_File: control.ss

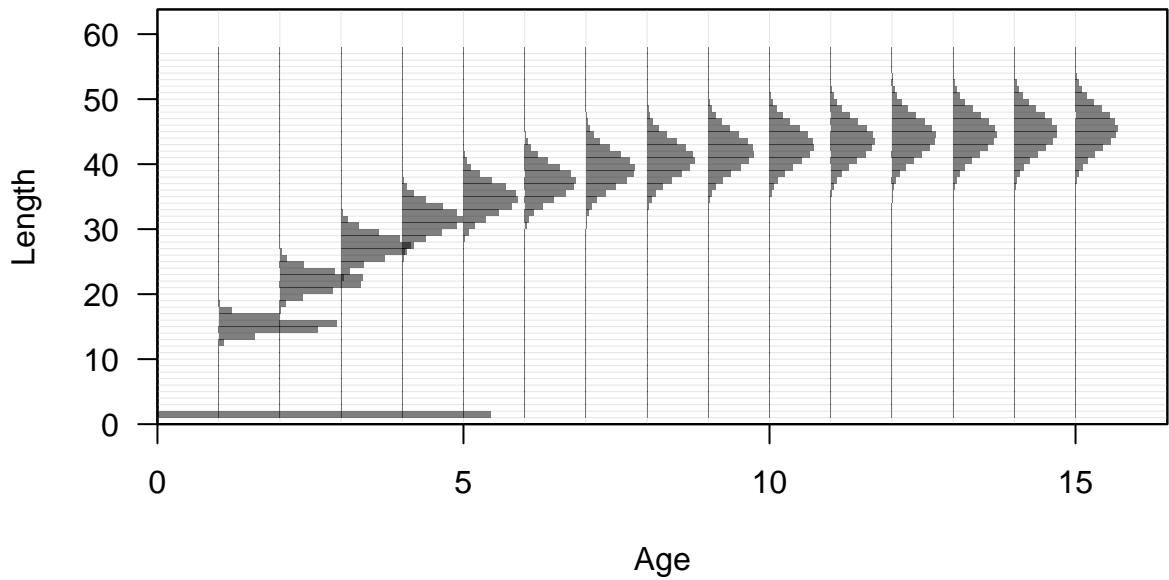
Length (cm, beginning of the year)

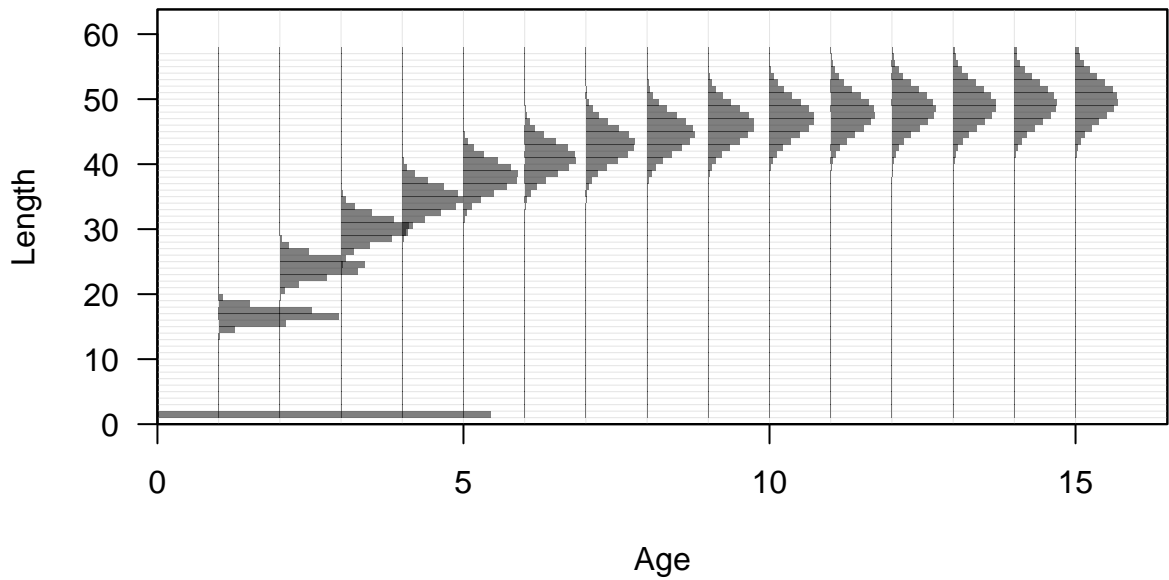


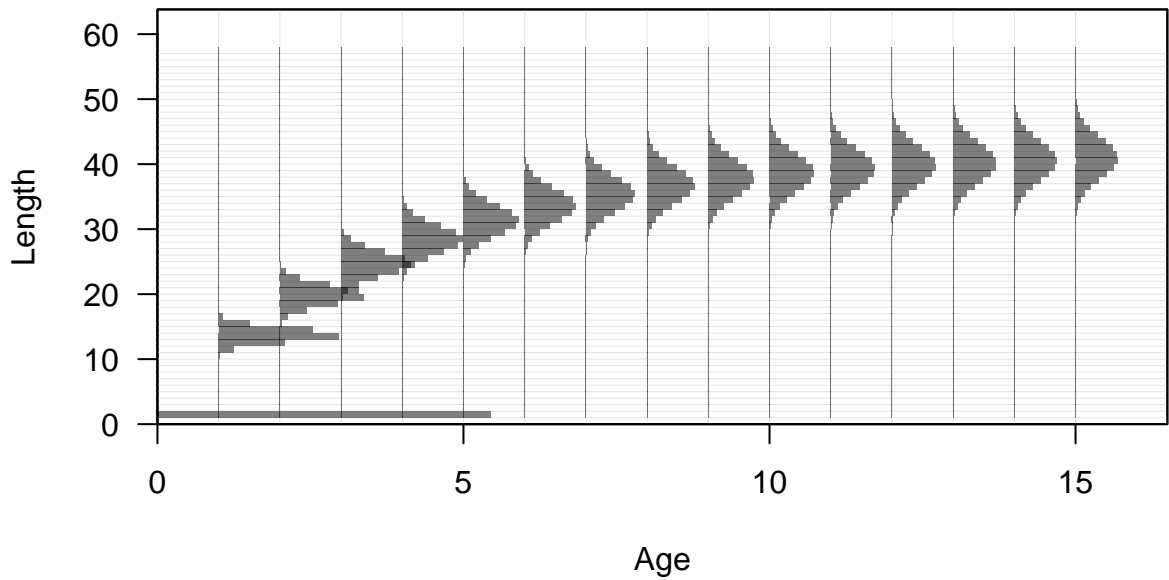


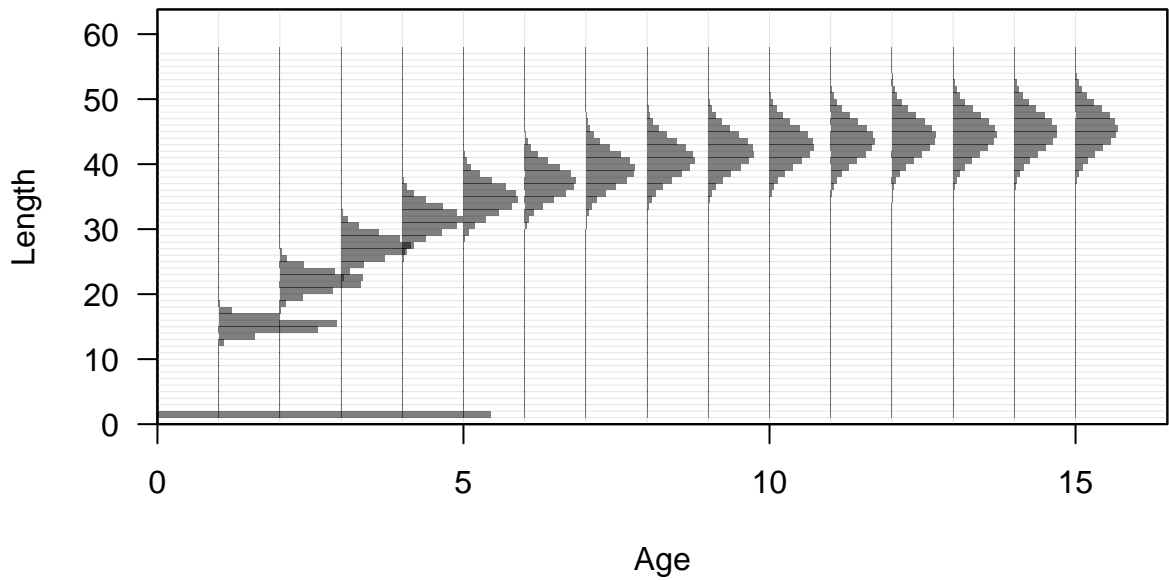


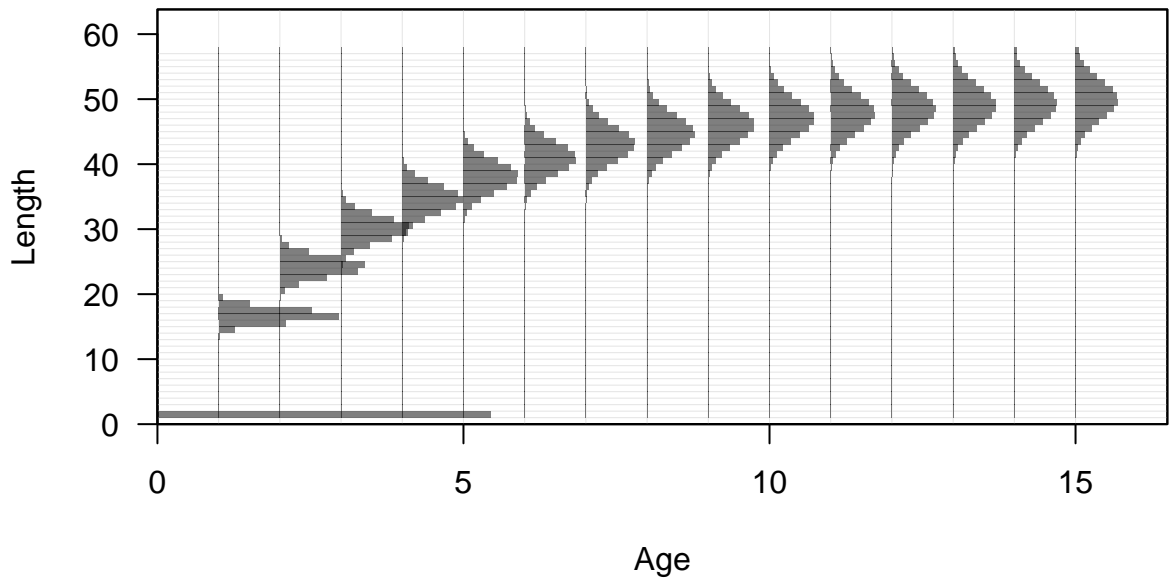


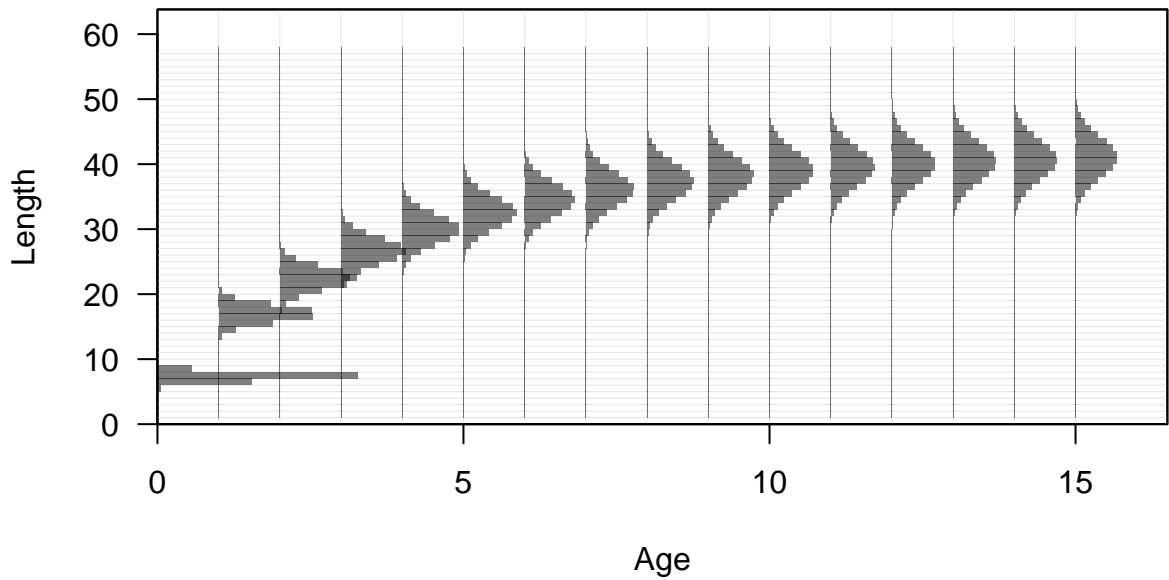


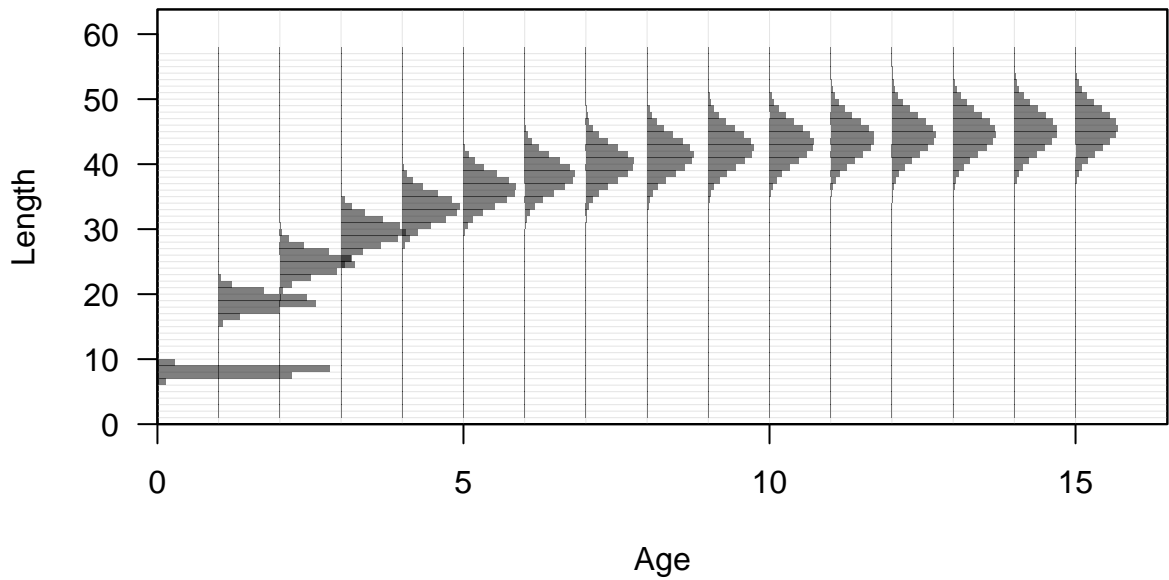


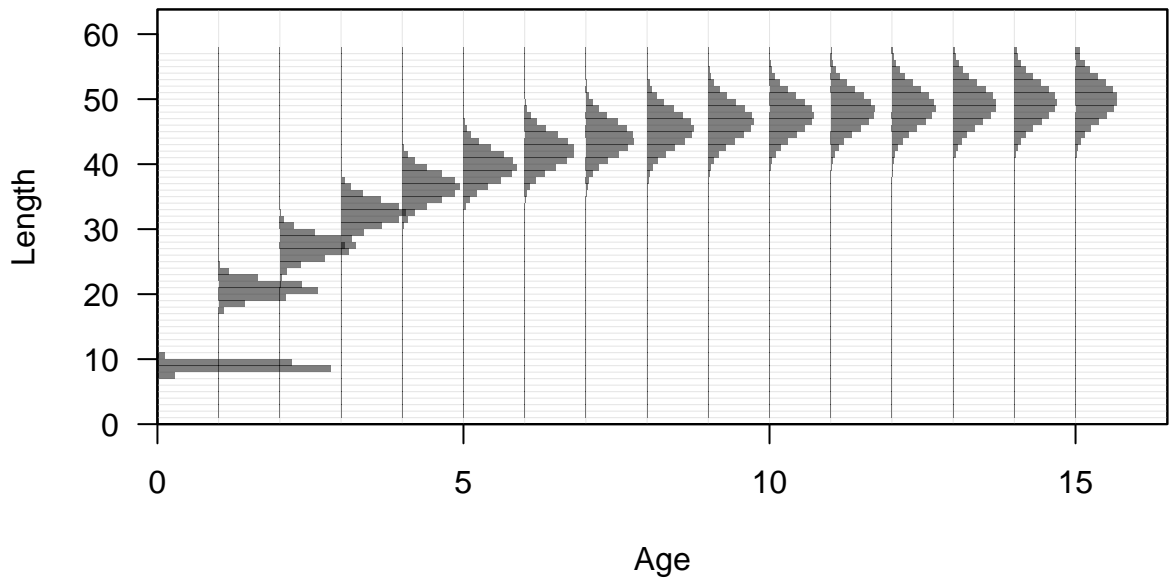


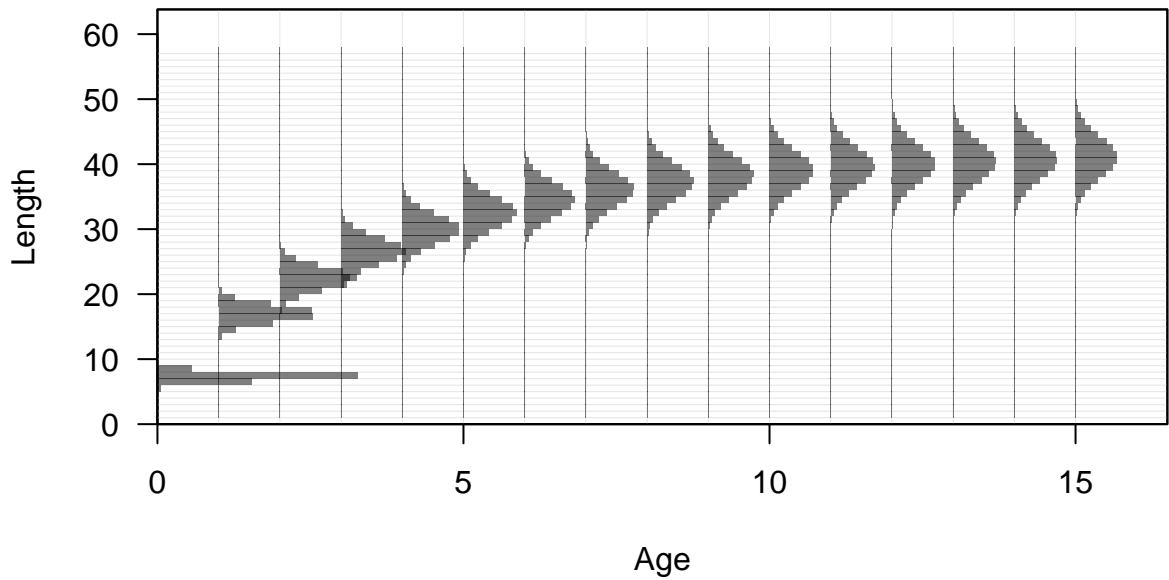


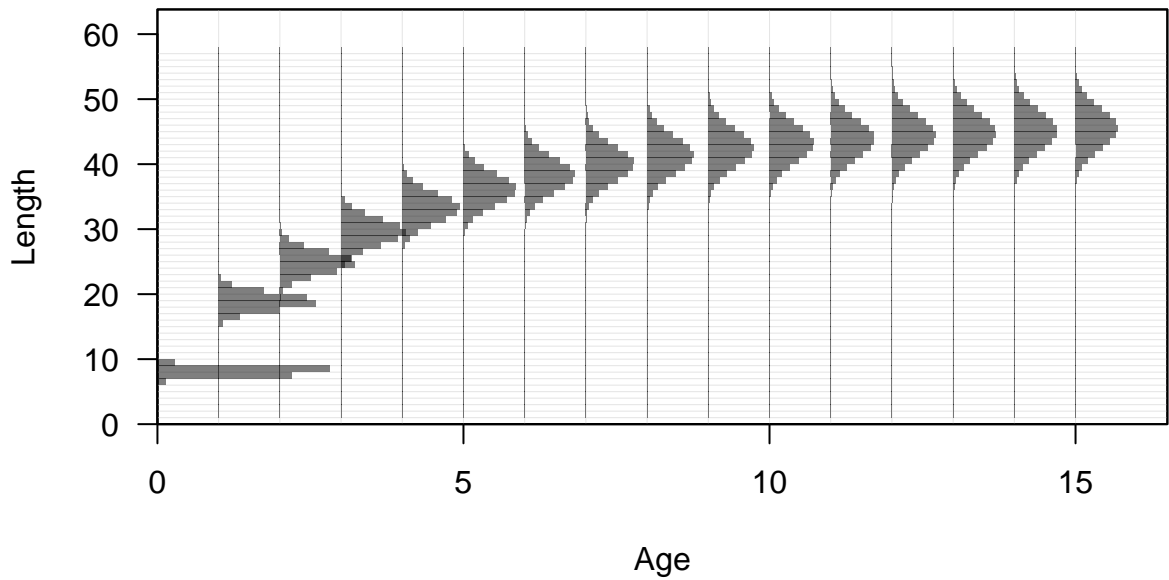


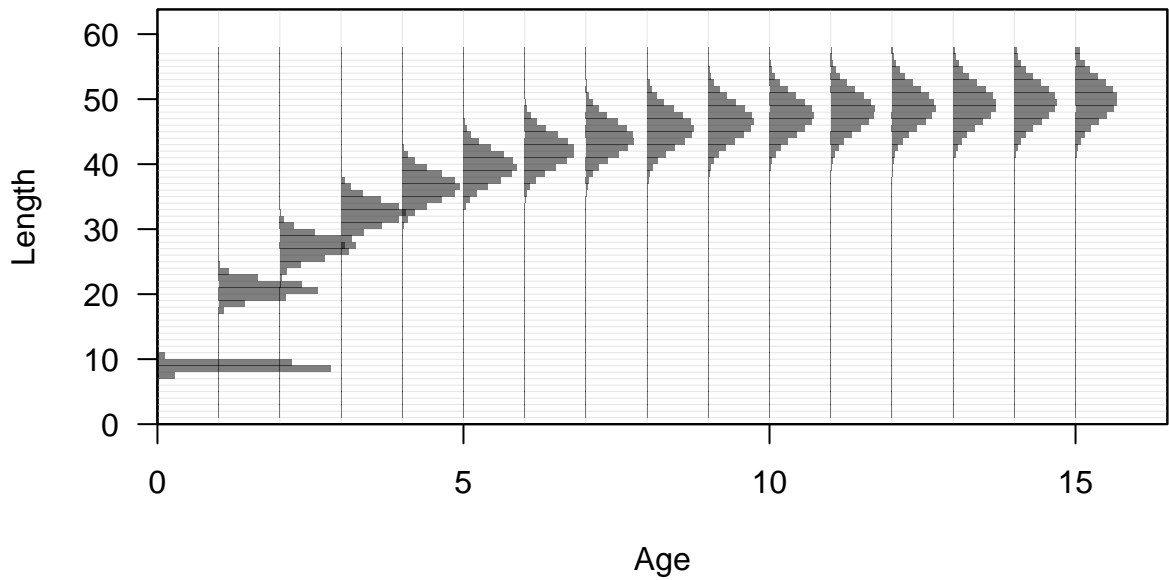








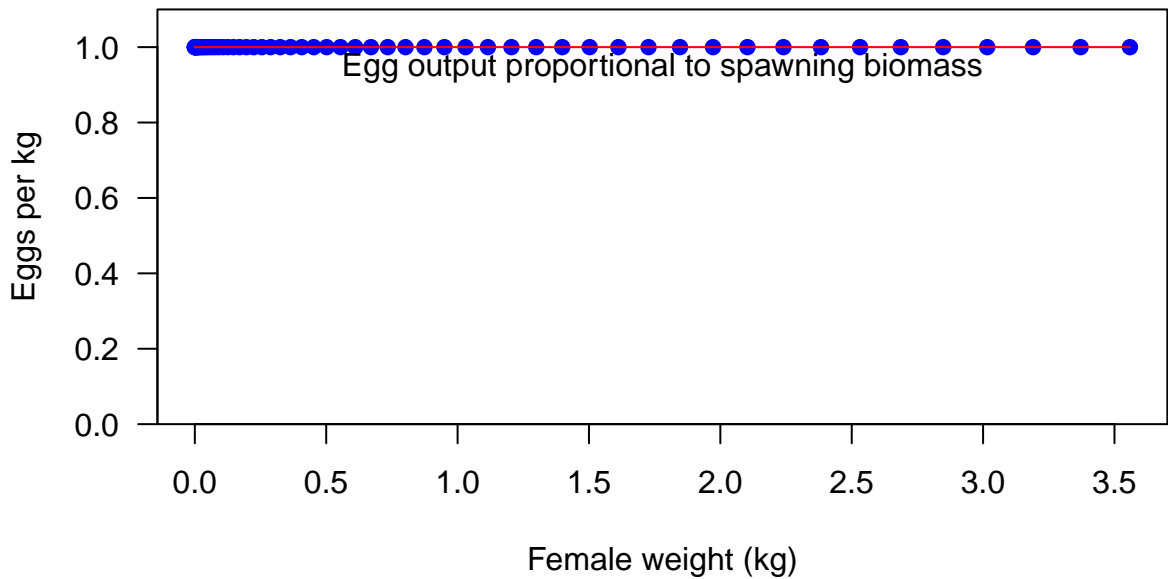












Fecundity



Fecundity



Spawning output

3

2

1

0

0

10

20

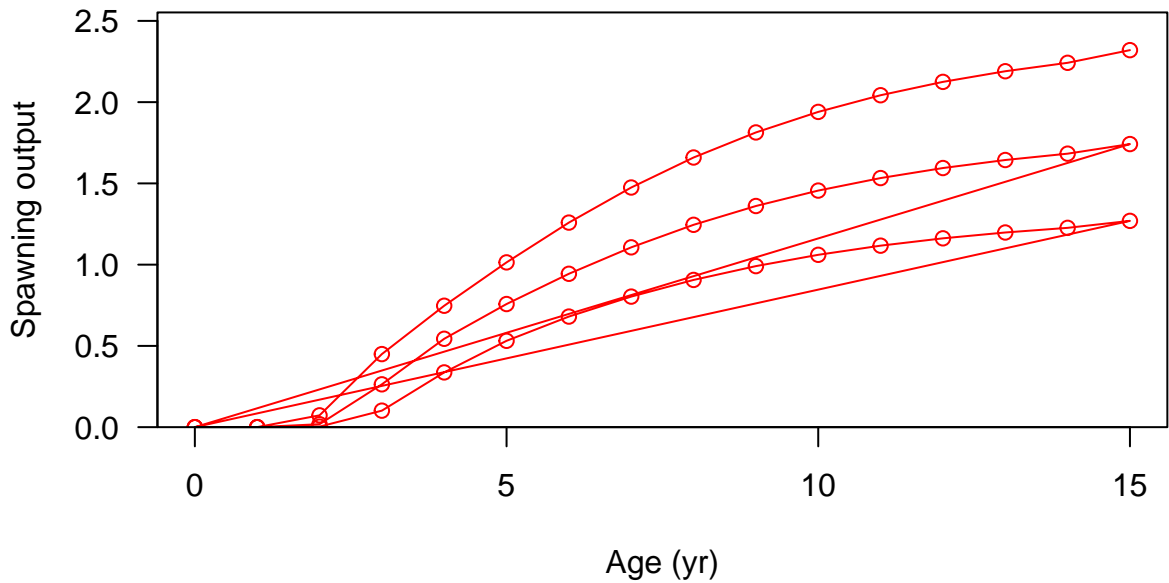
30

40

50

Length (cm)

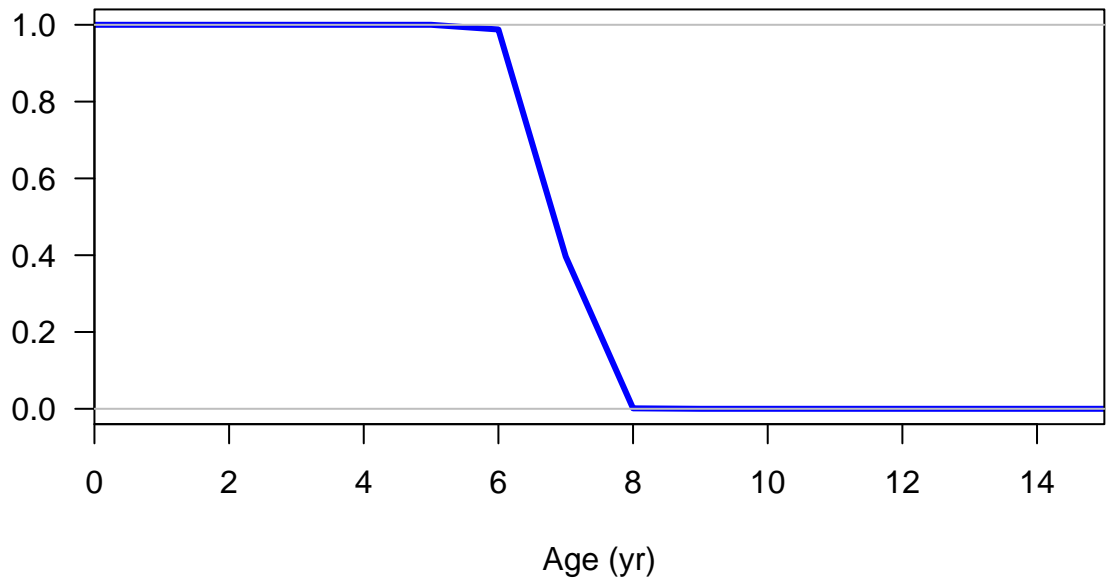




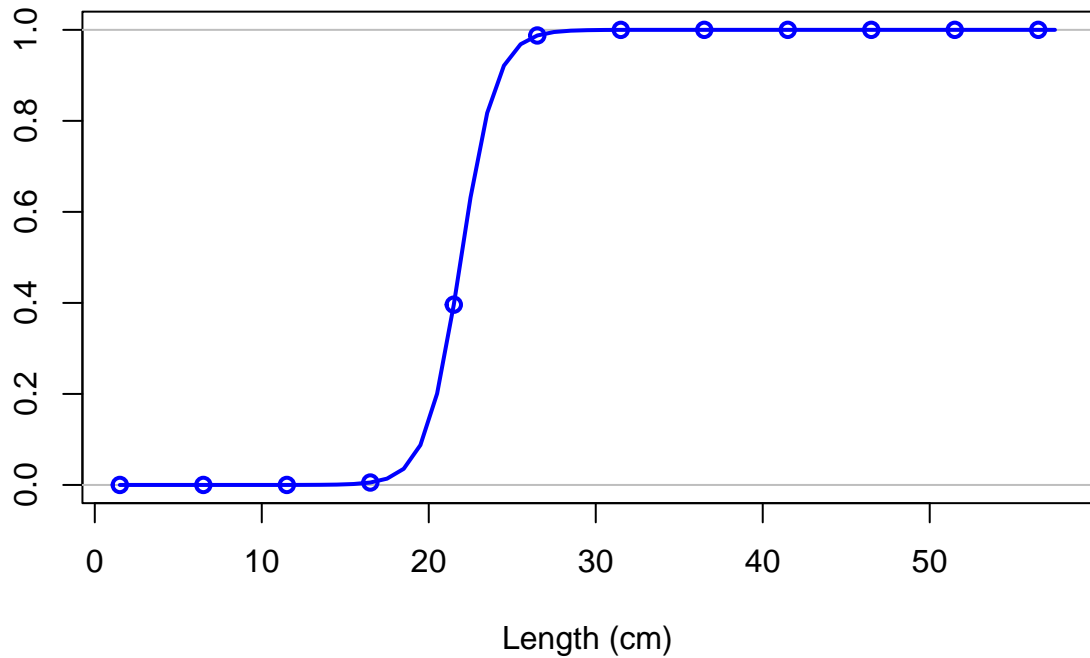
Hermaphroditism transition rate



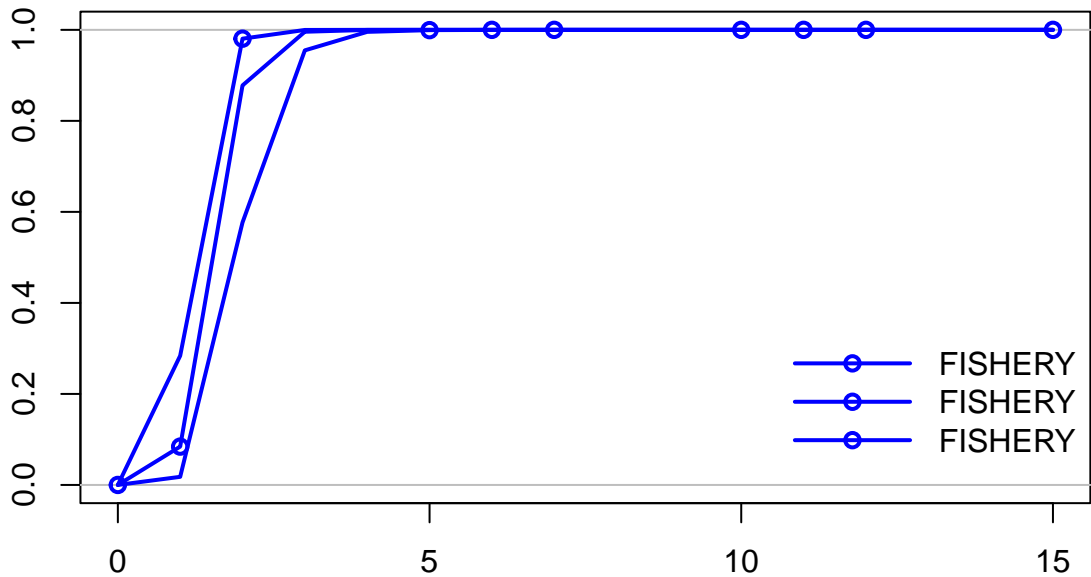
Fraction females by age at equilibrium



Selectivity

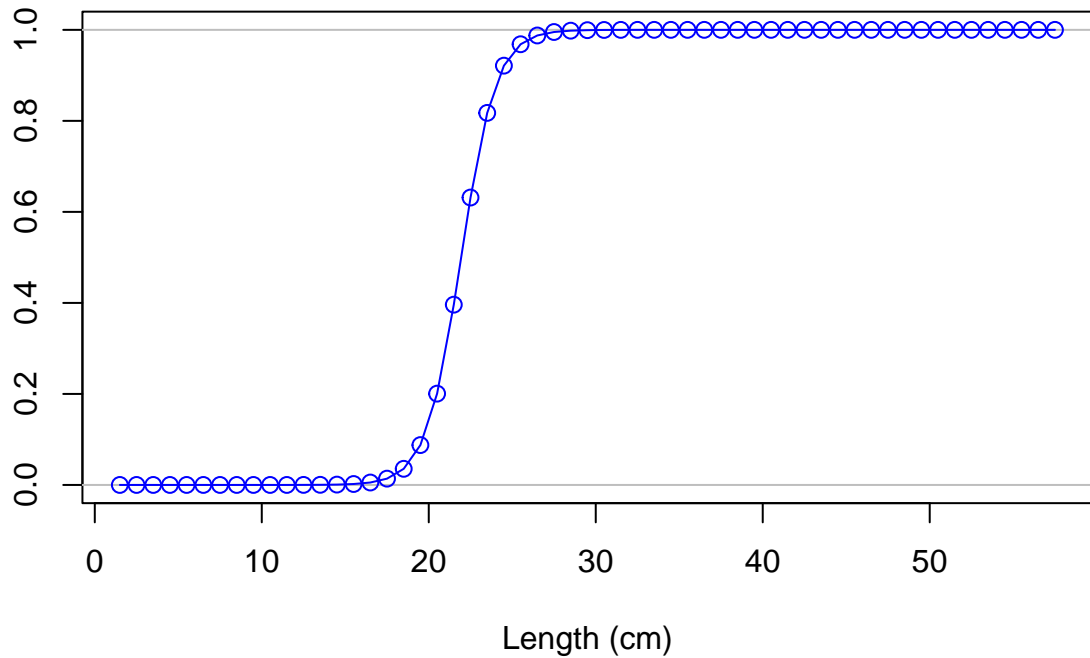


Selectivity

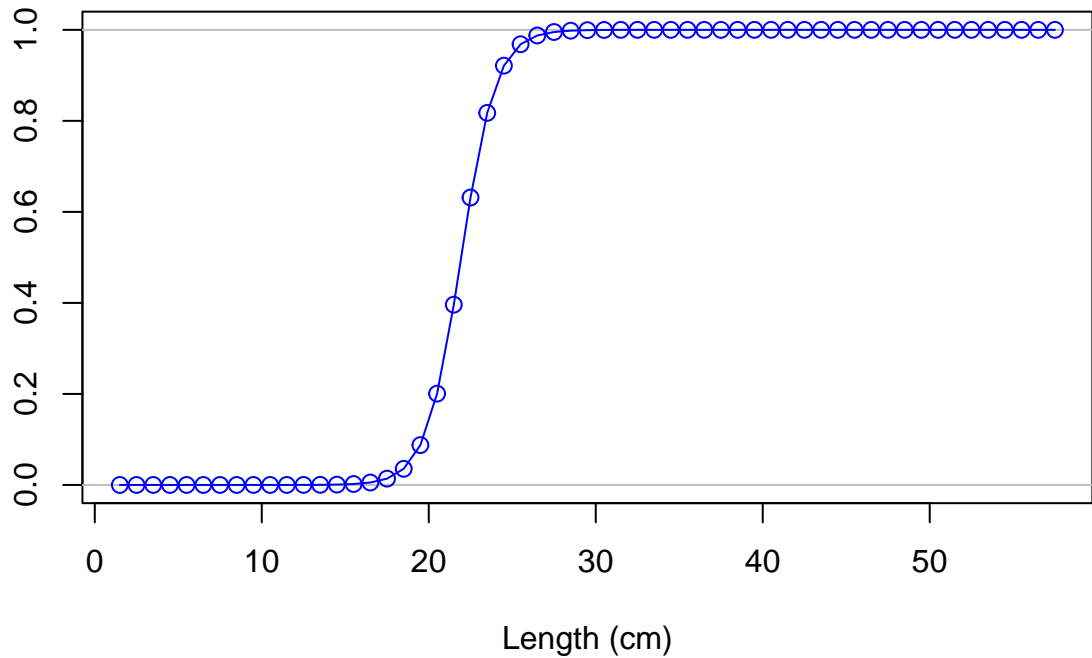


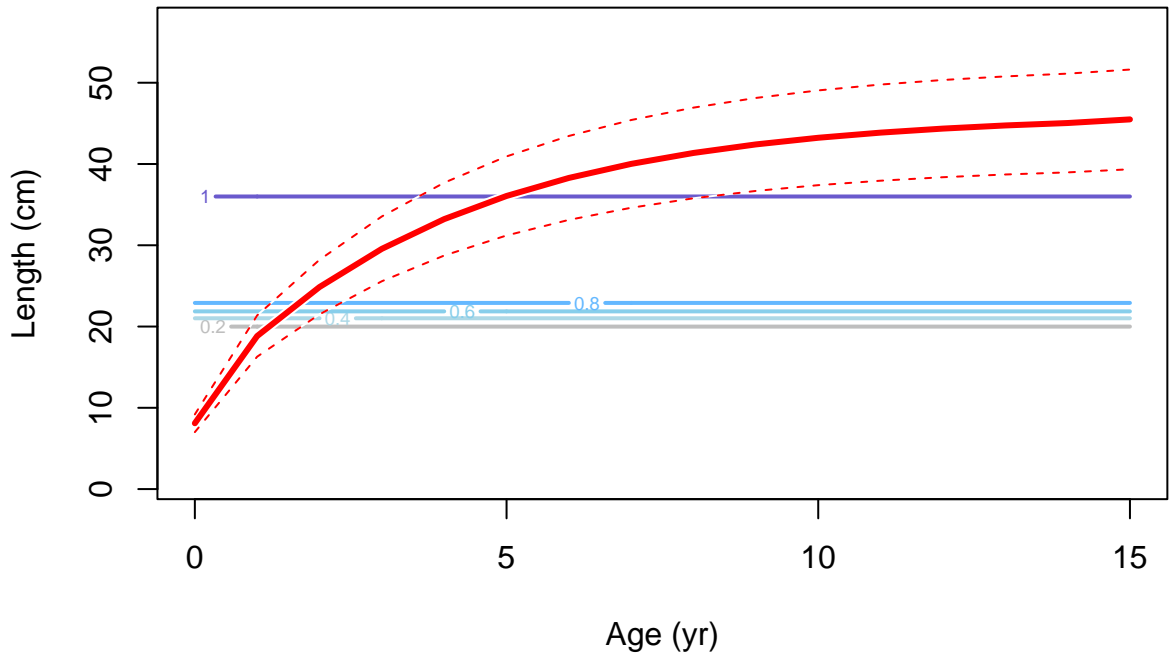
Age (yr)

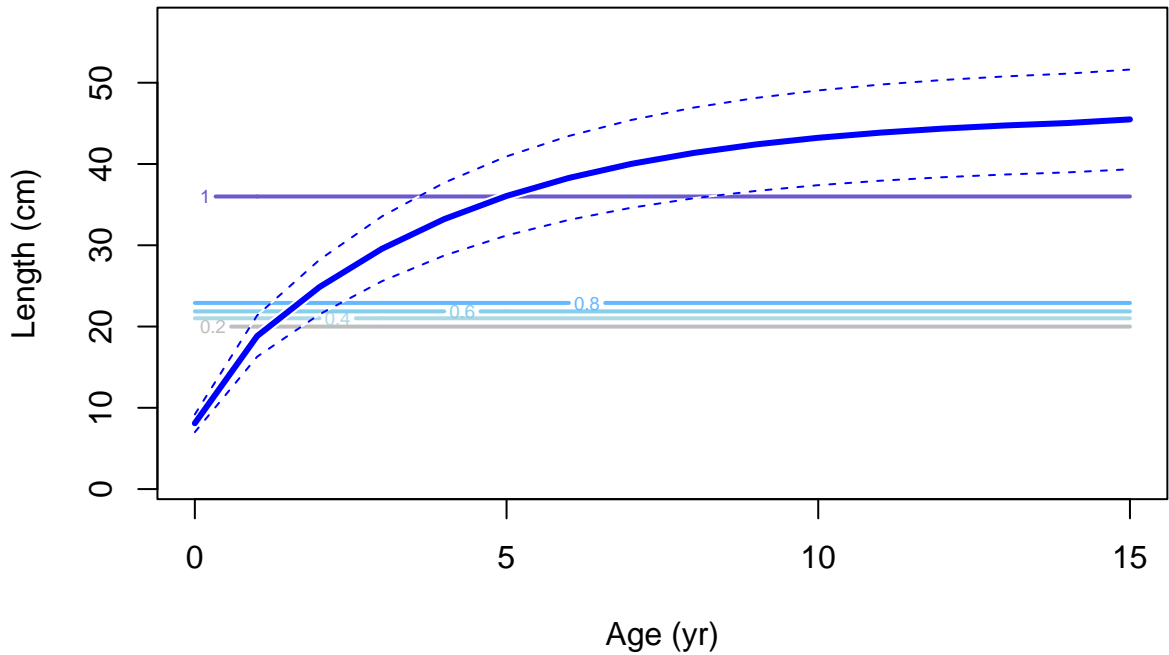
Selectivity

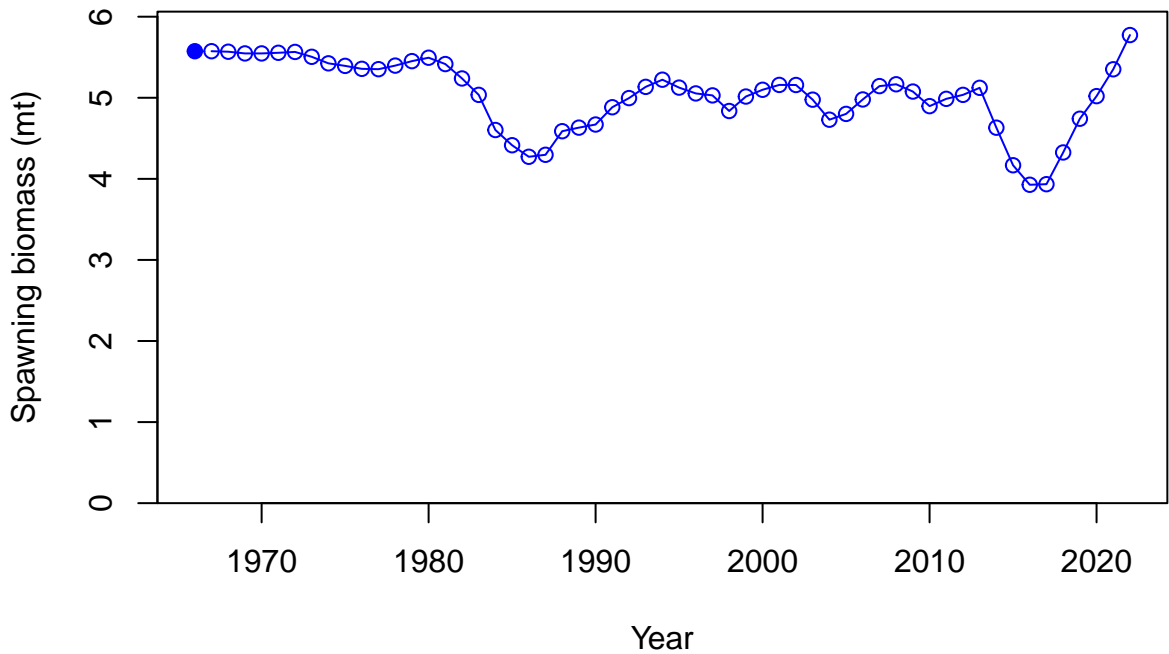


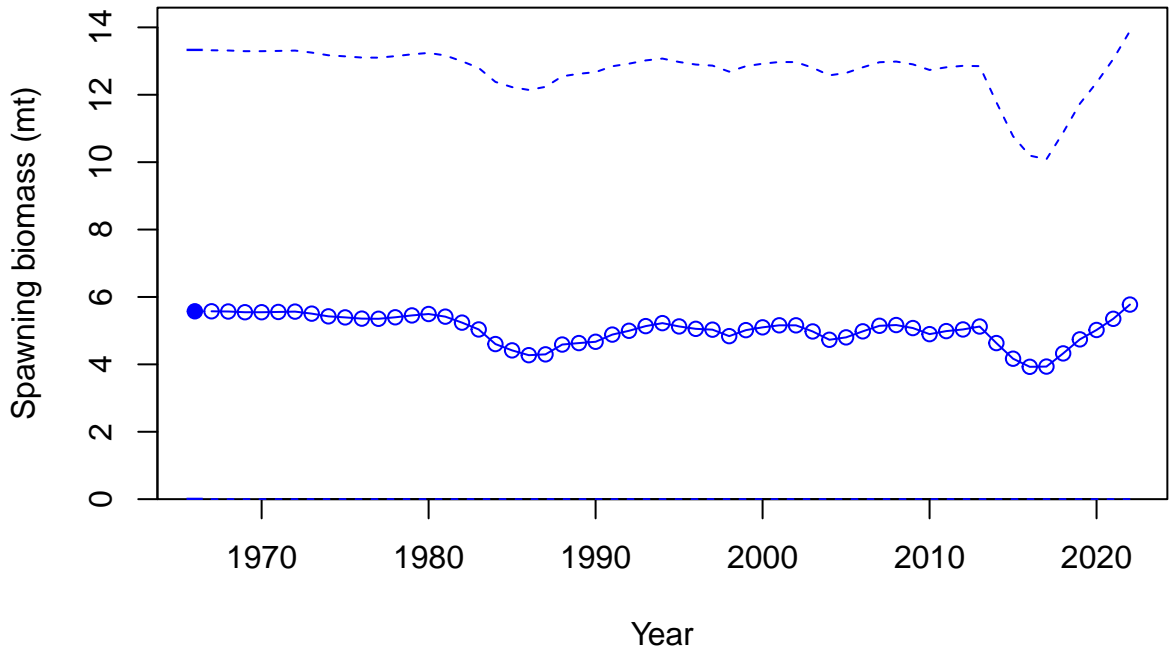
Selectivity



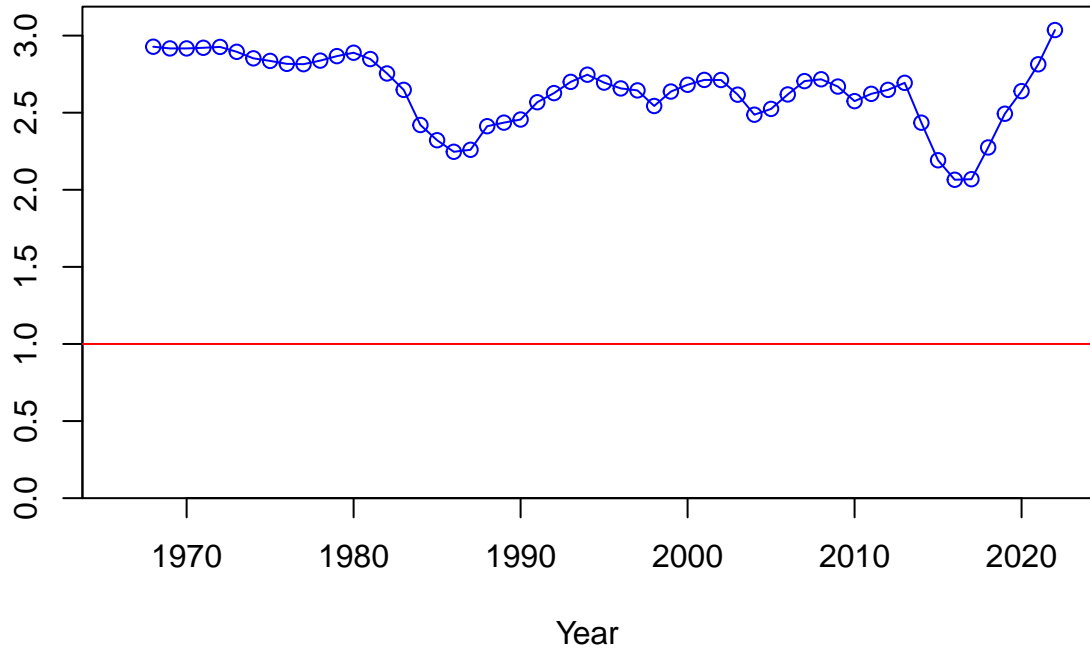




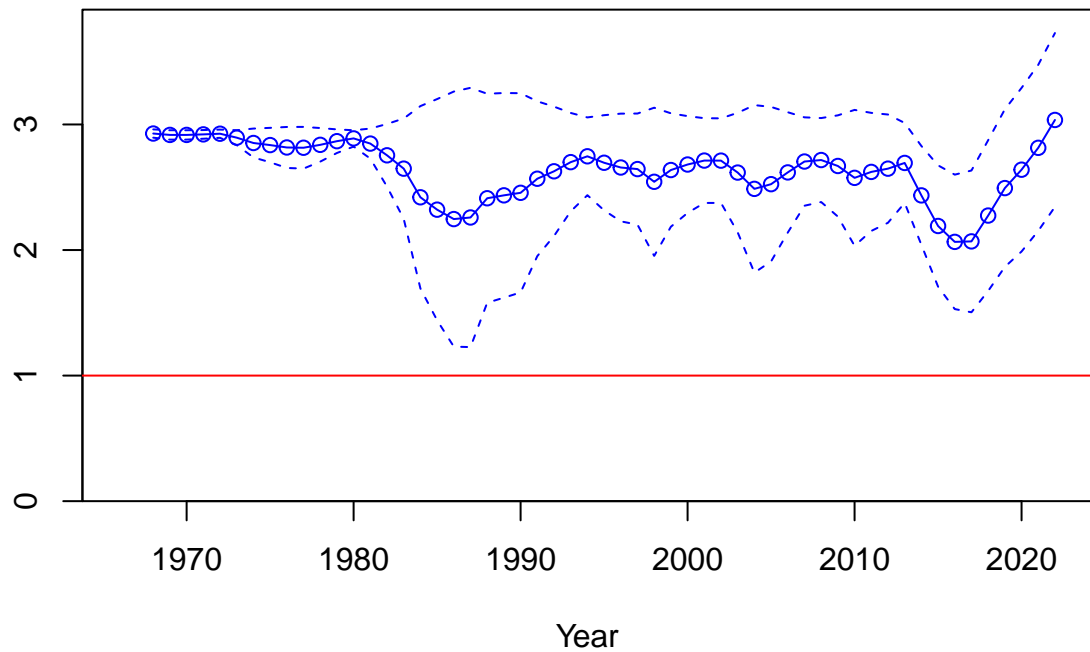


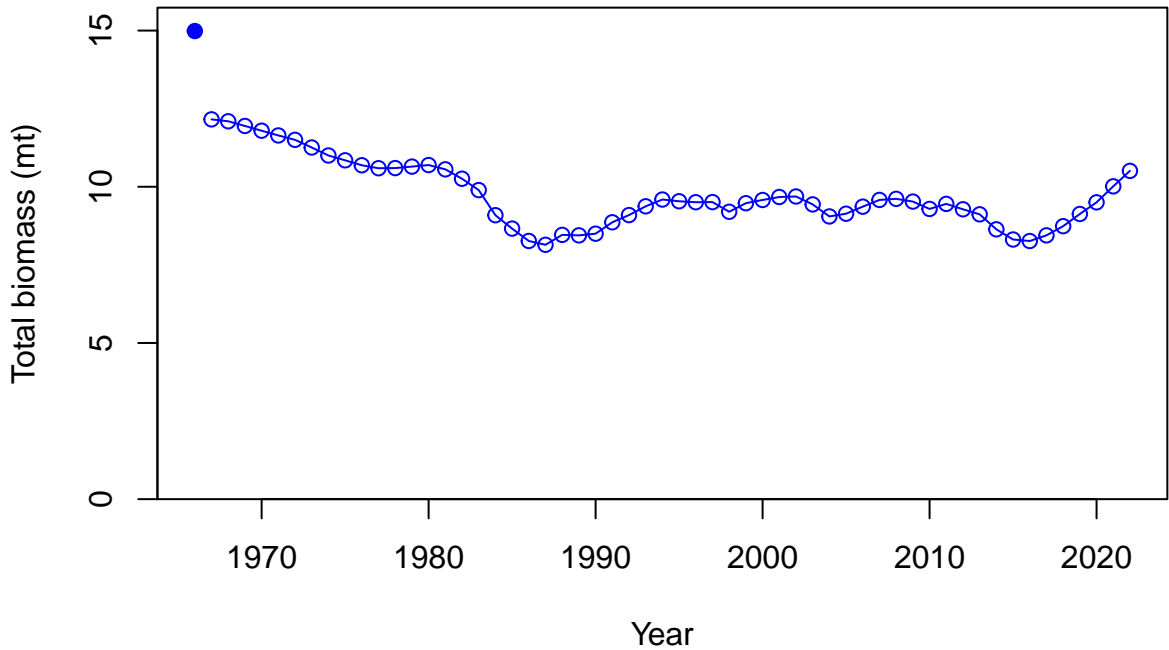


Relative spawning biomass: B/B_{MSY}

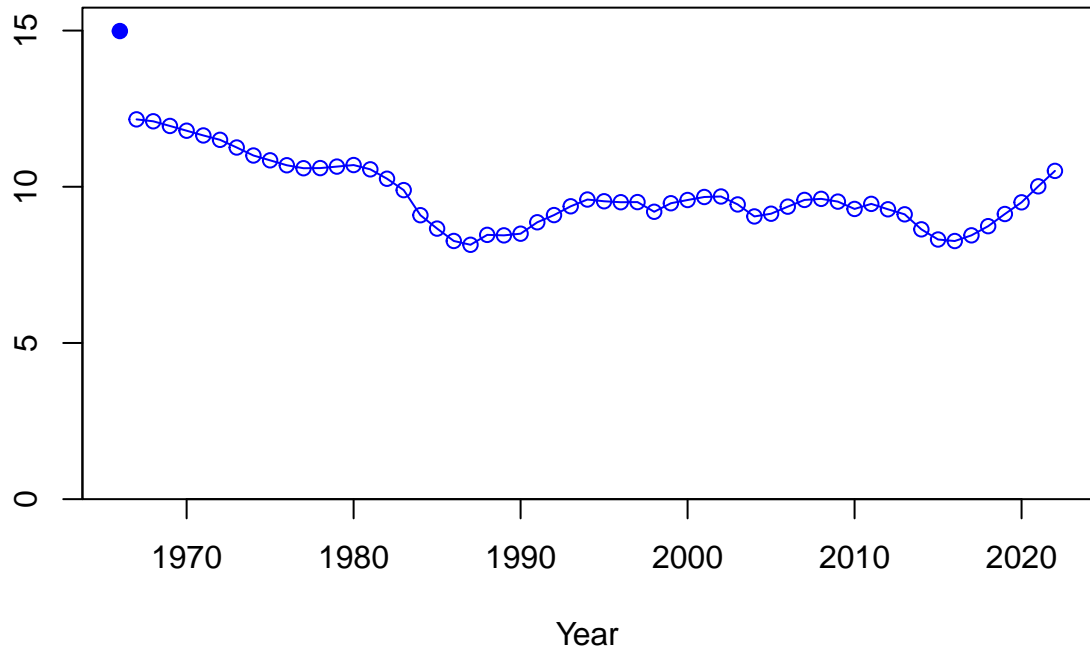


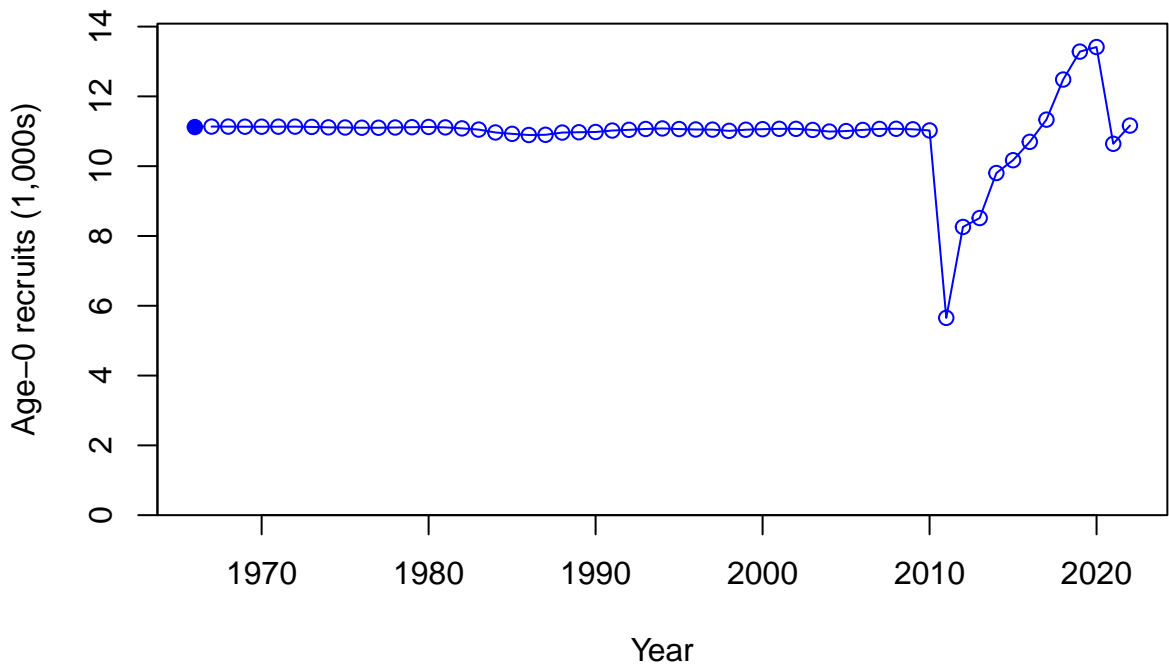
Relative spawning biomass: B/B_{MSY}



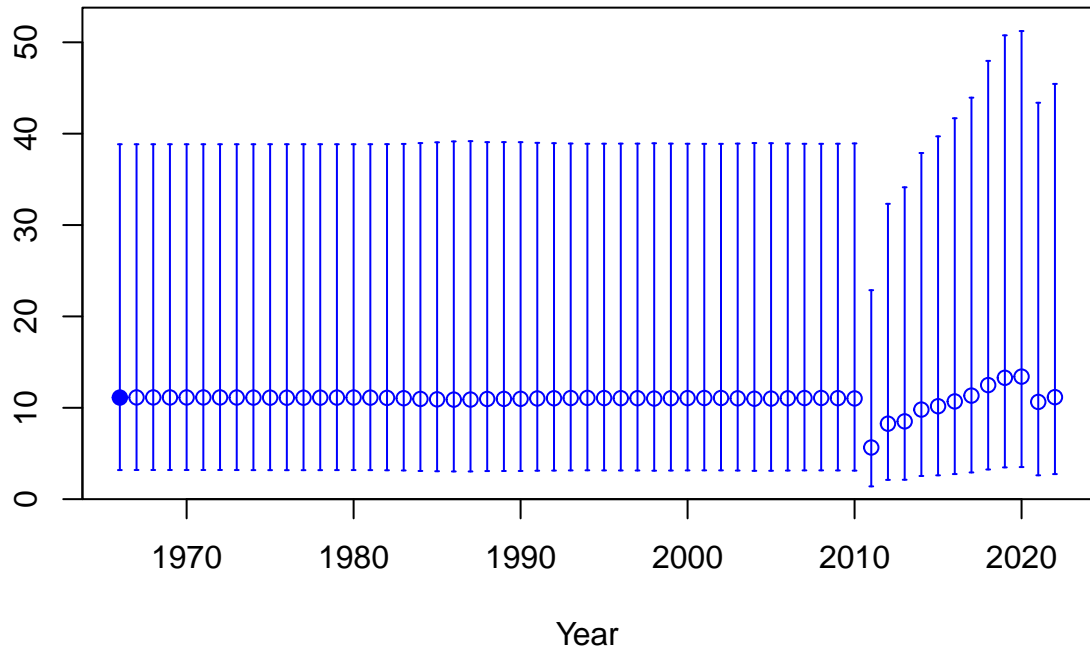


Summary biomass (mt)

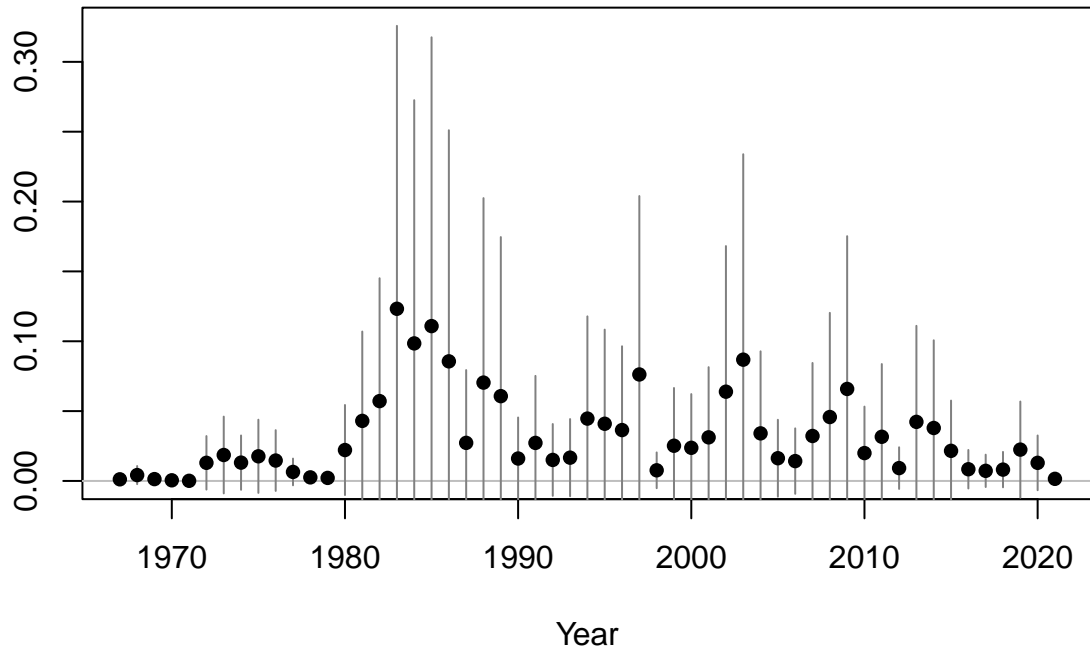


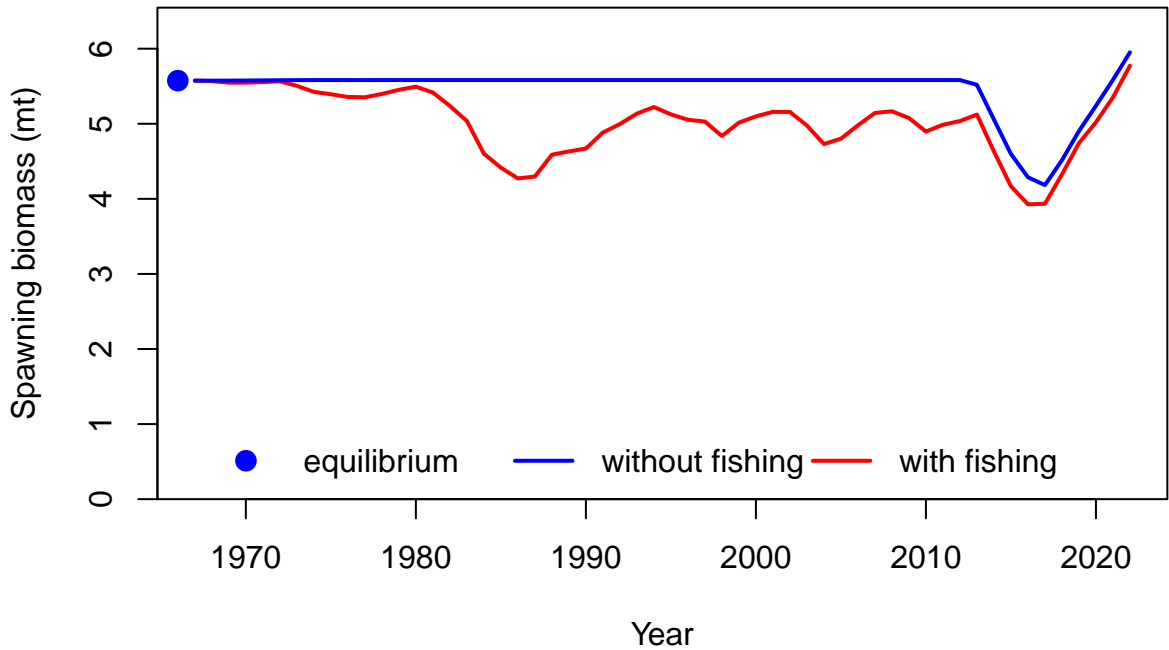


Age-0 recruits (1,000s)

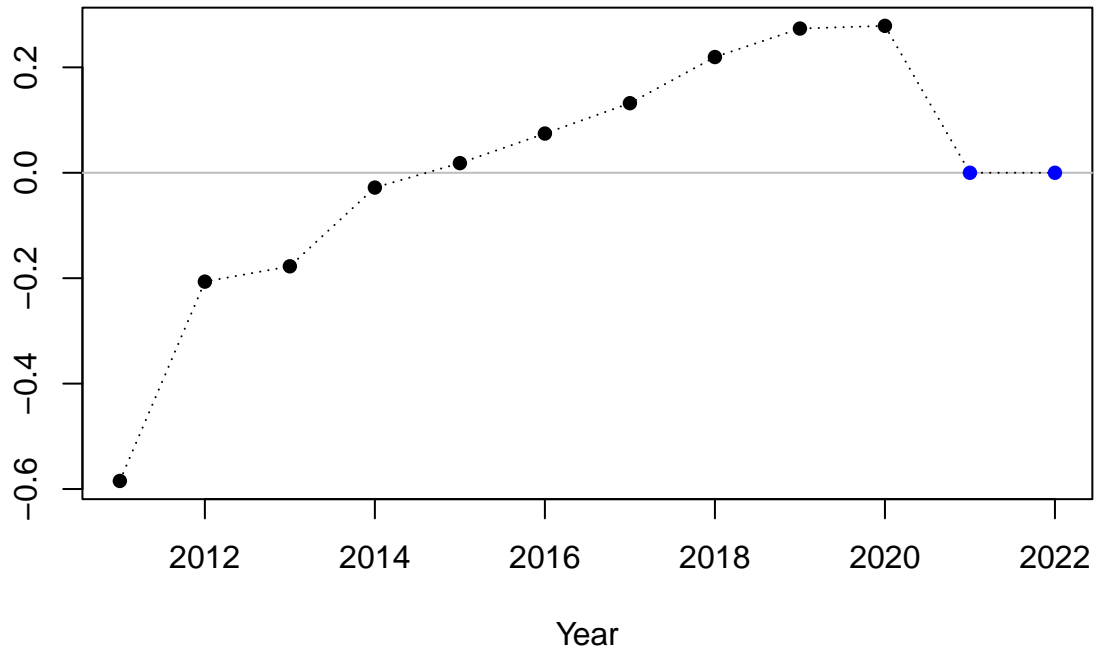


Summary Fishing Mortality

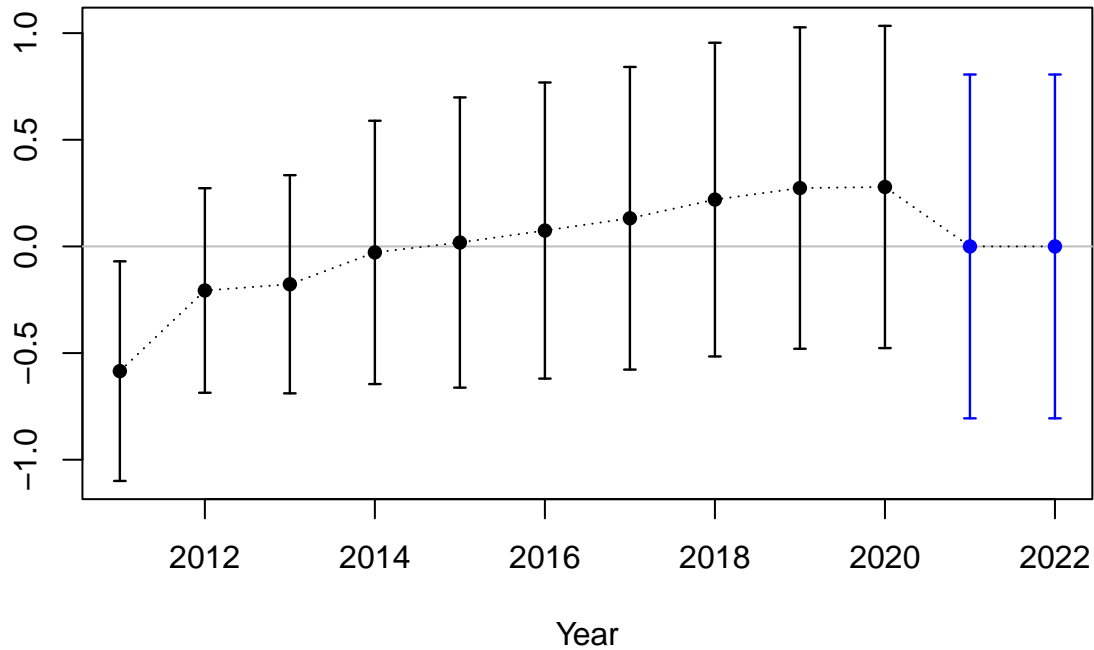




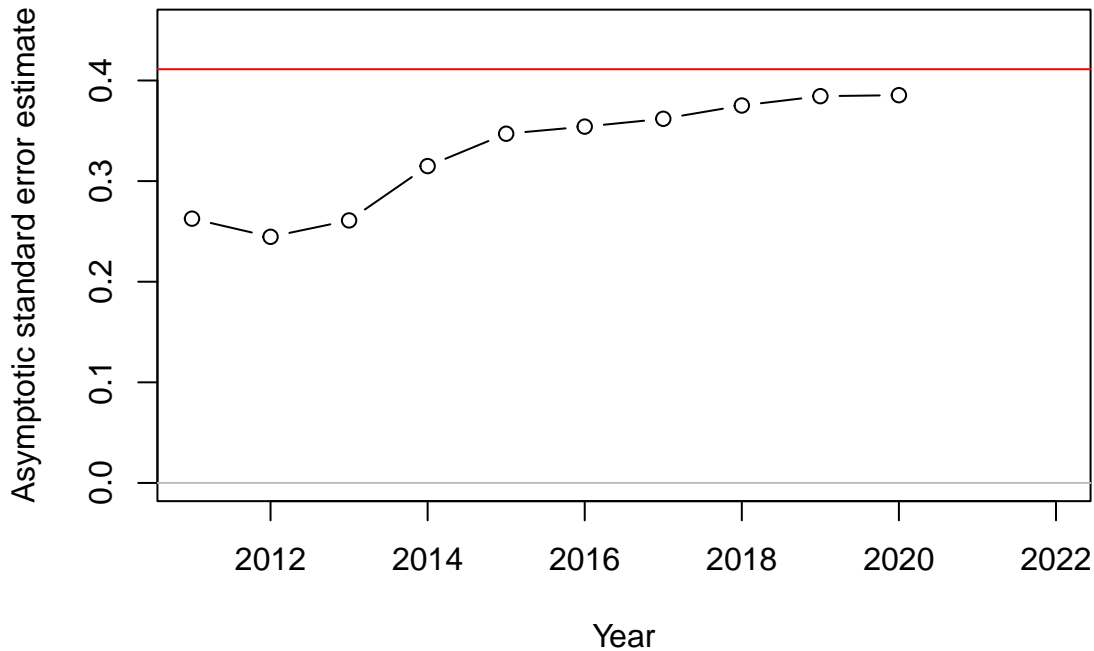
Log recruitment deviation

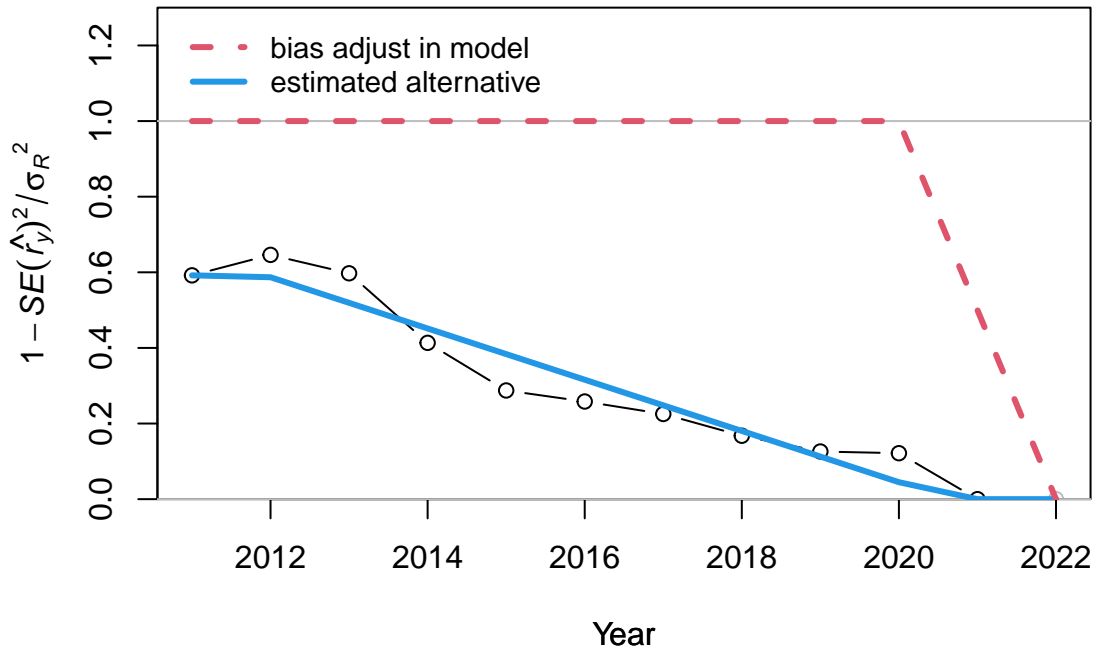


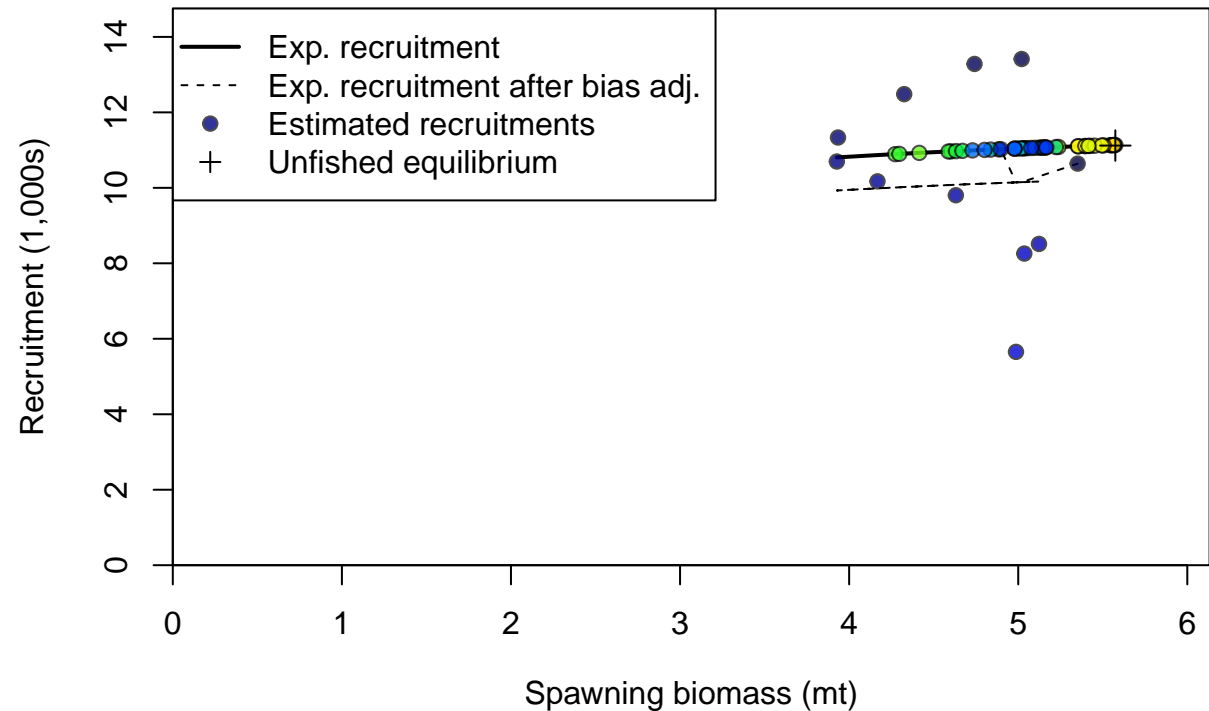
Log recruitment deviation

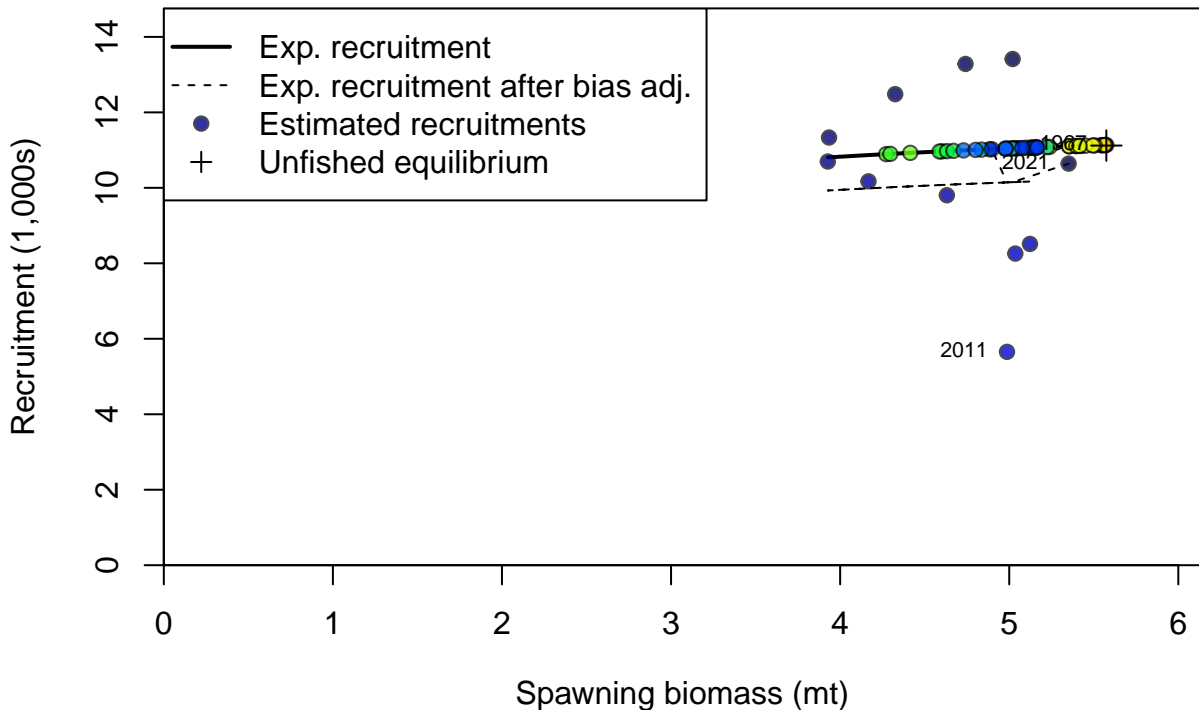


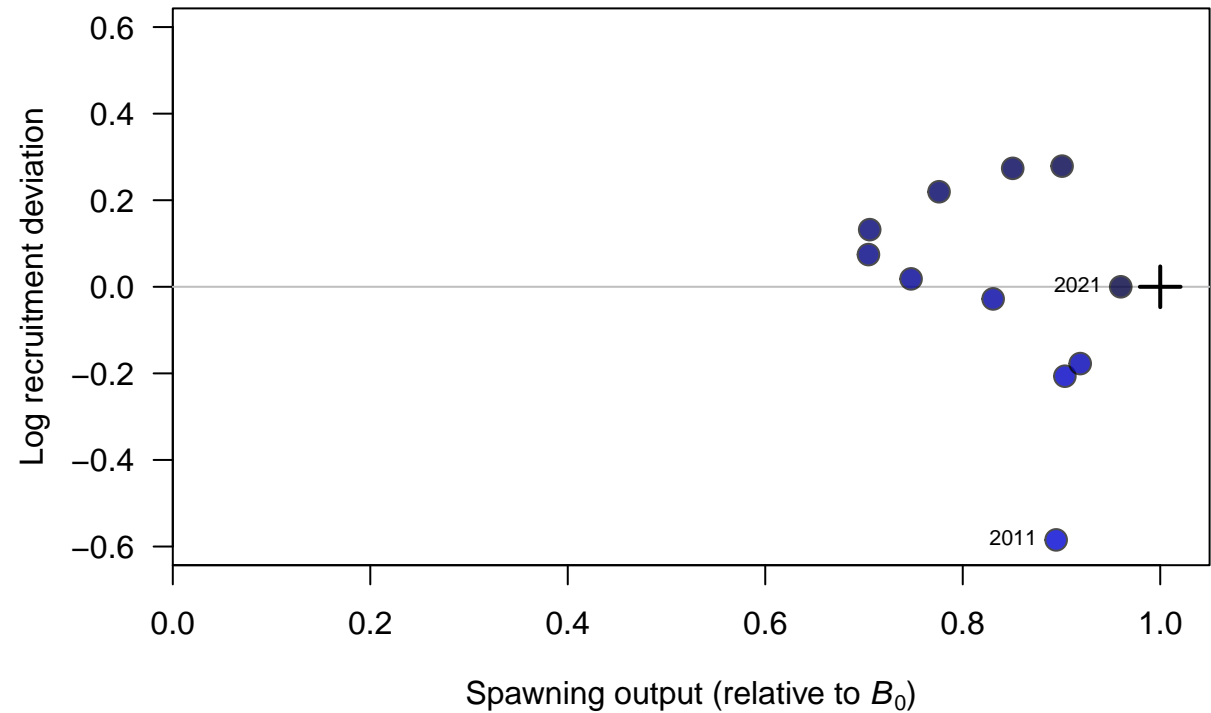
Recruitment deviation variance

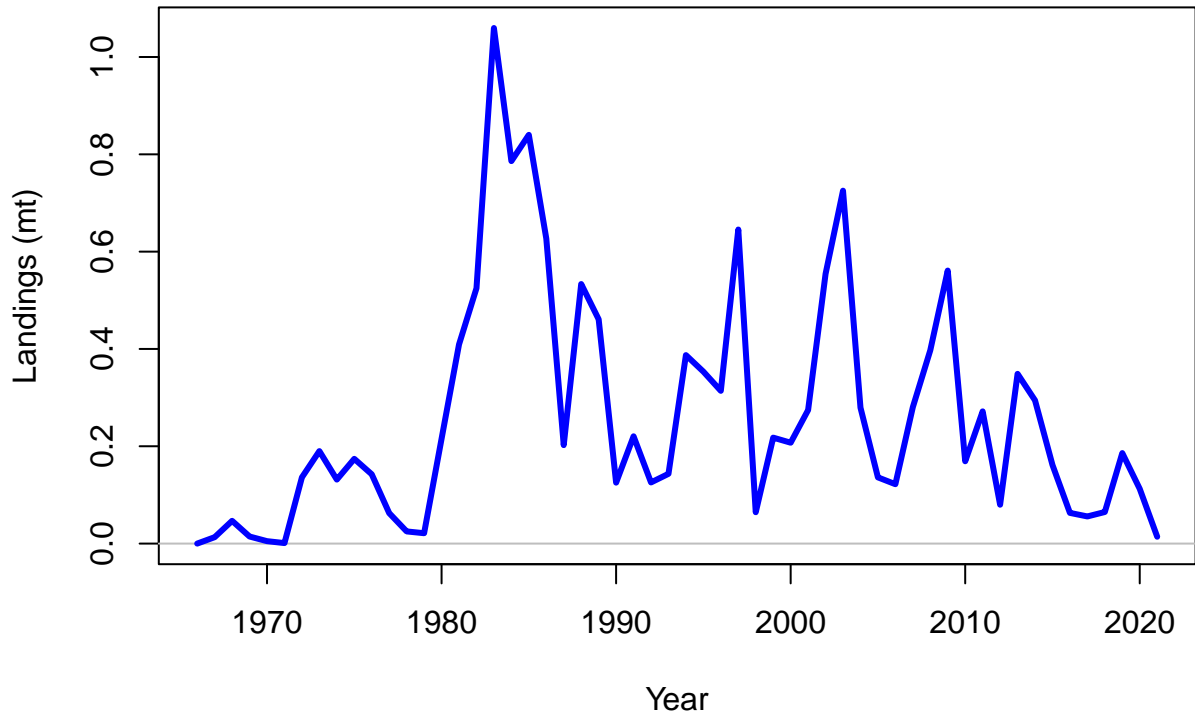


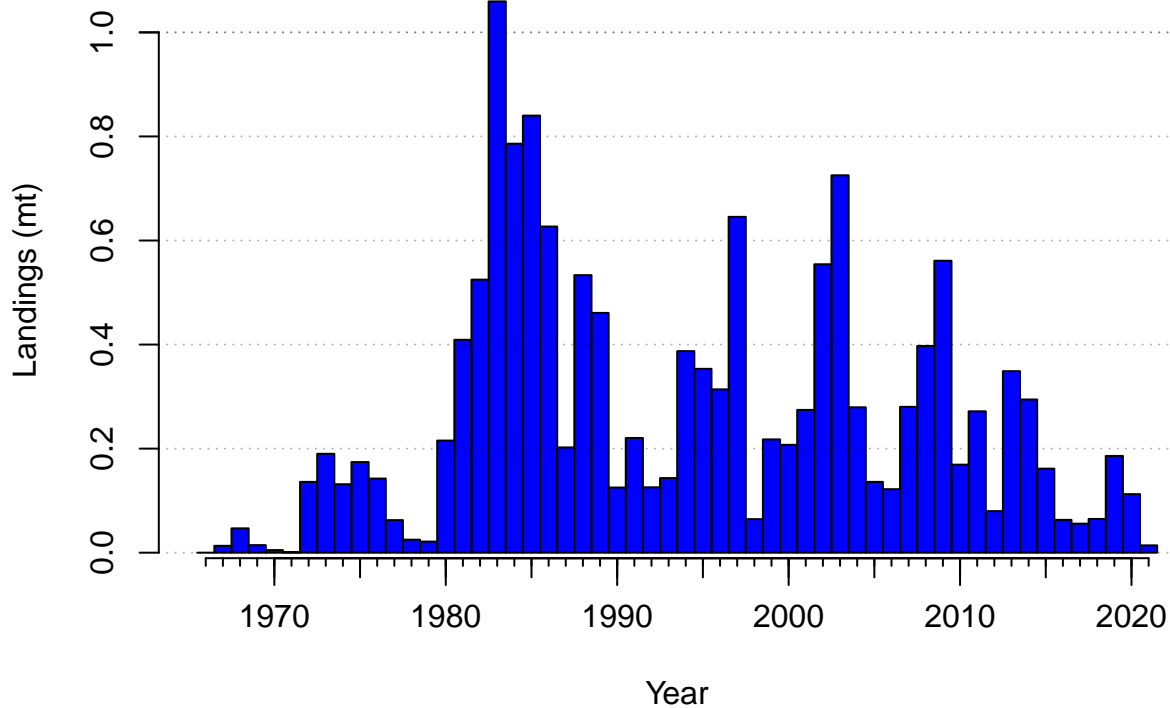


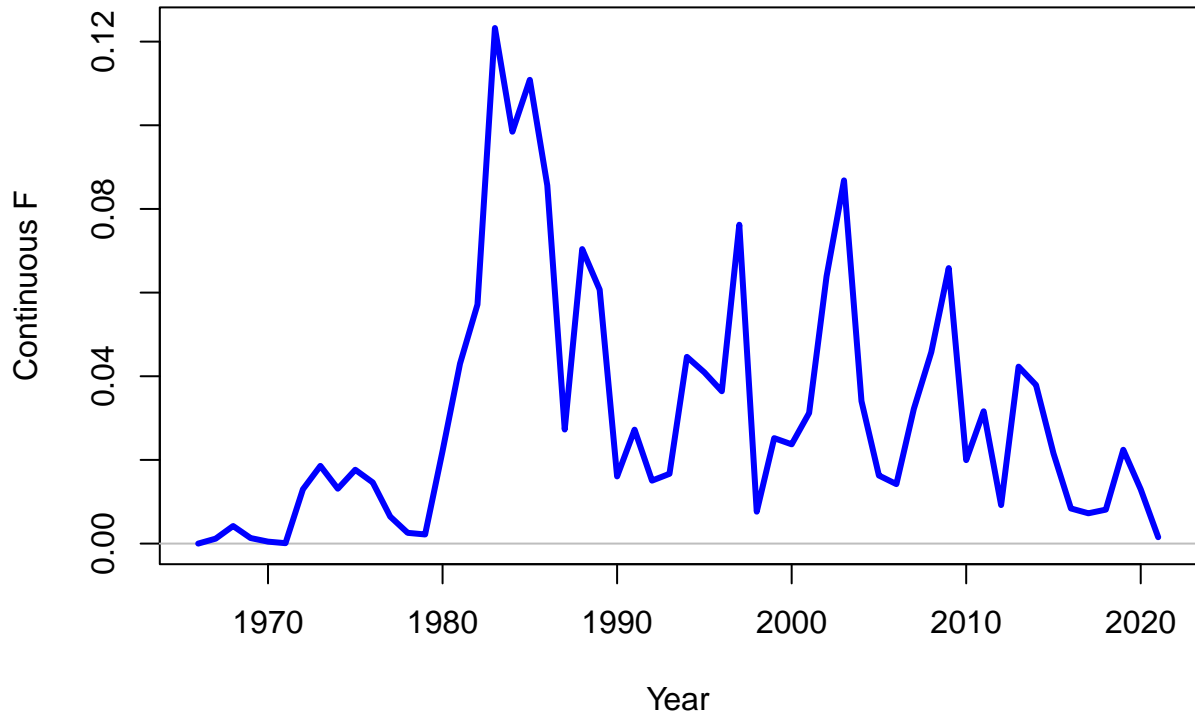




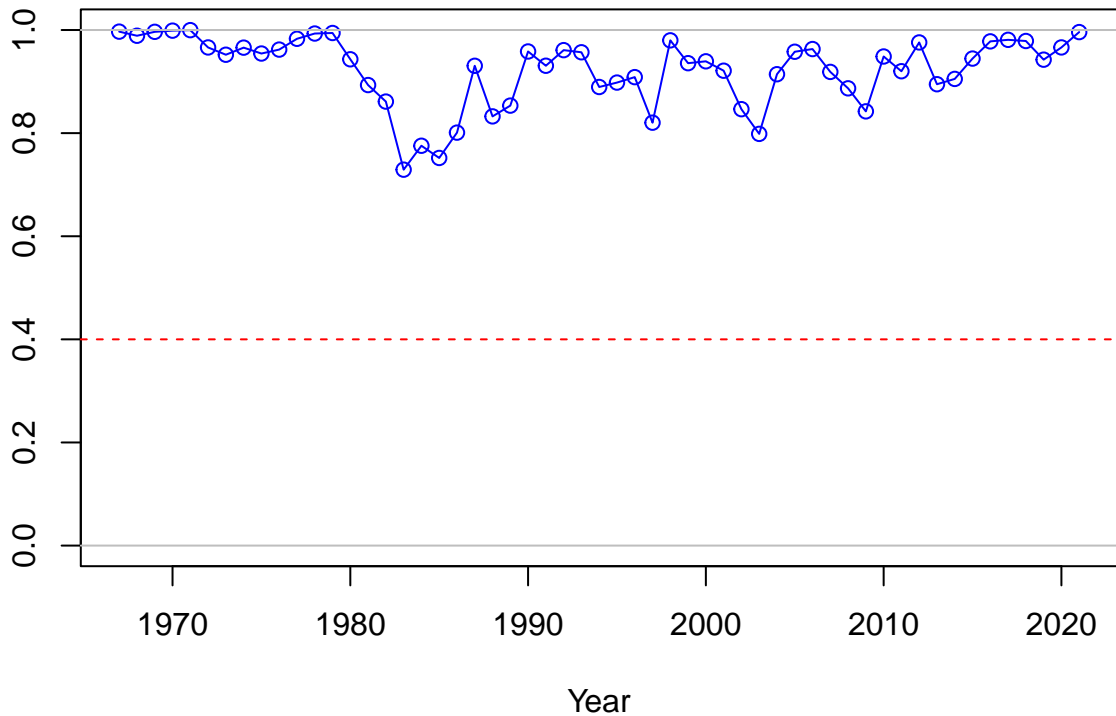




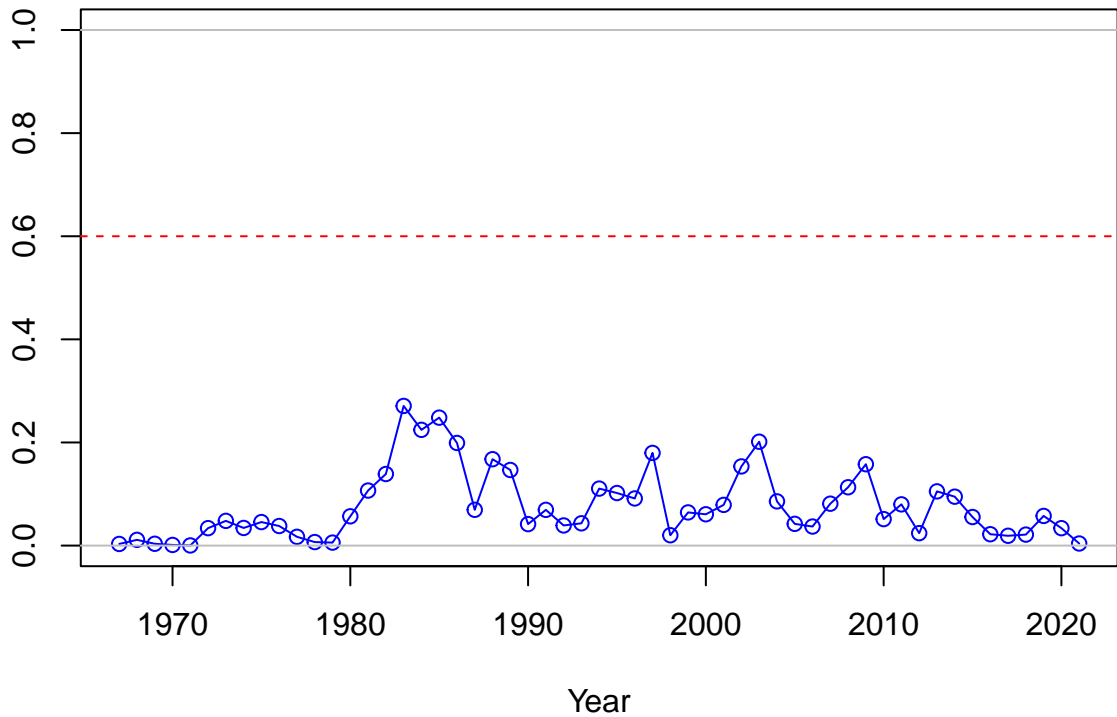




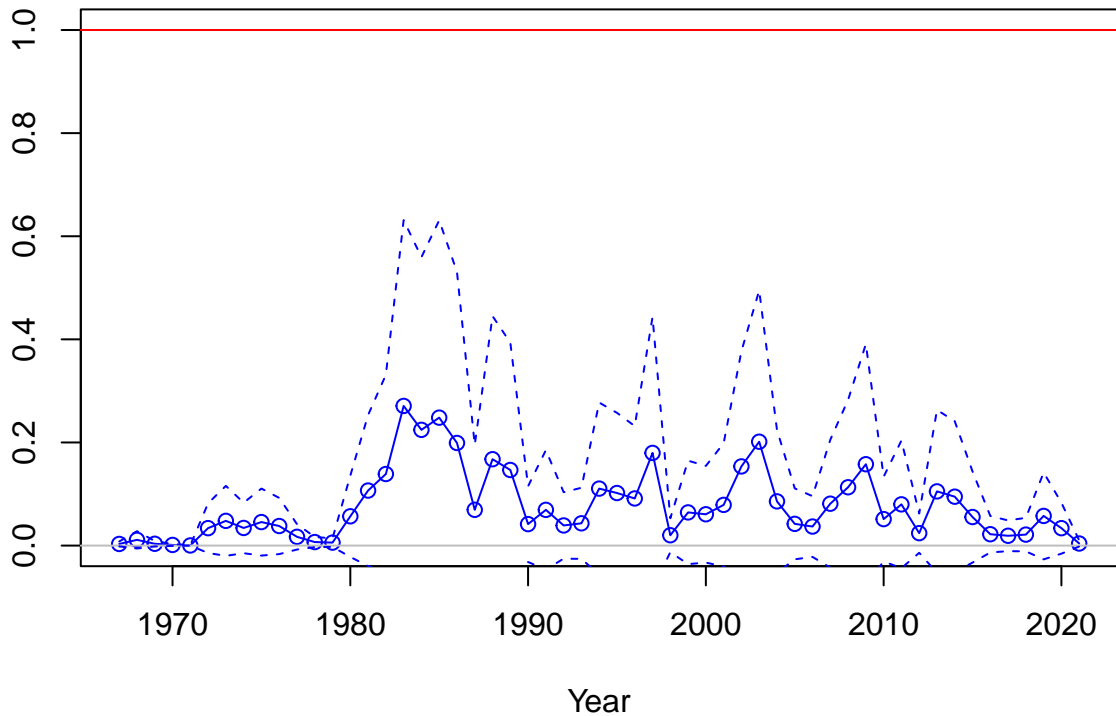
SPR



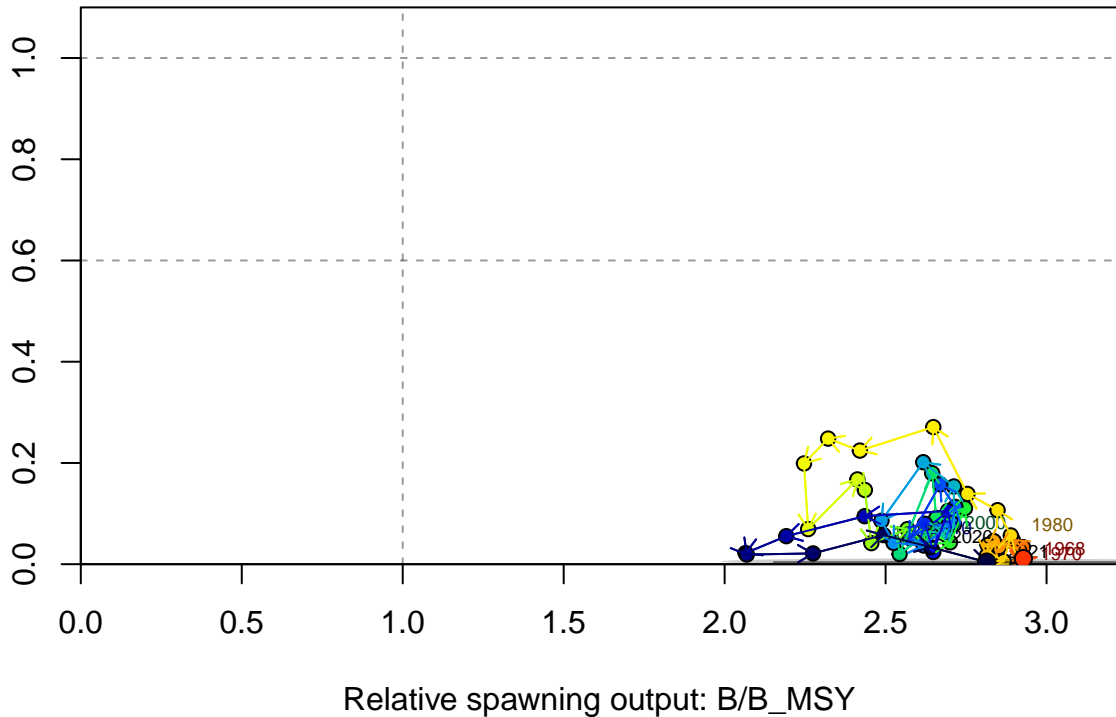
1-SPR

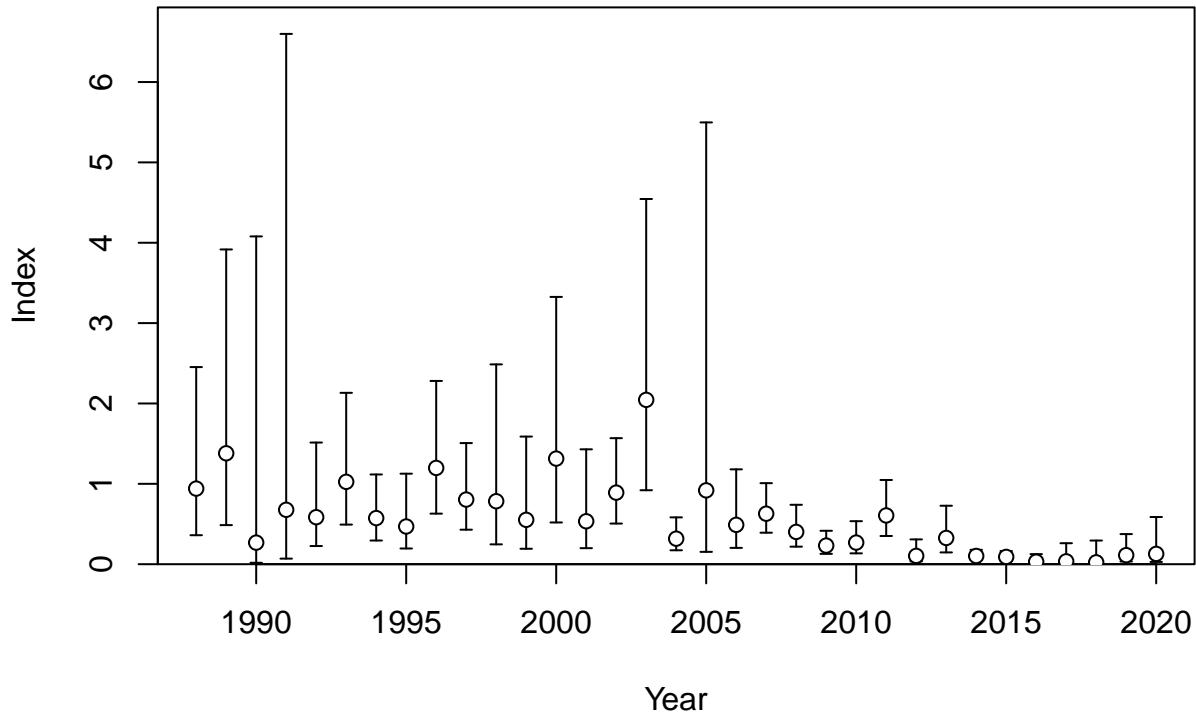


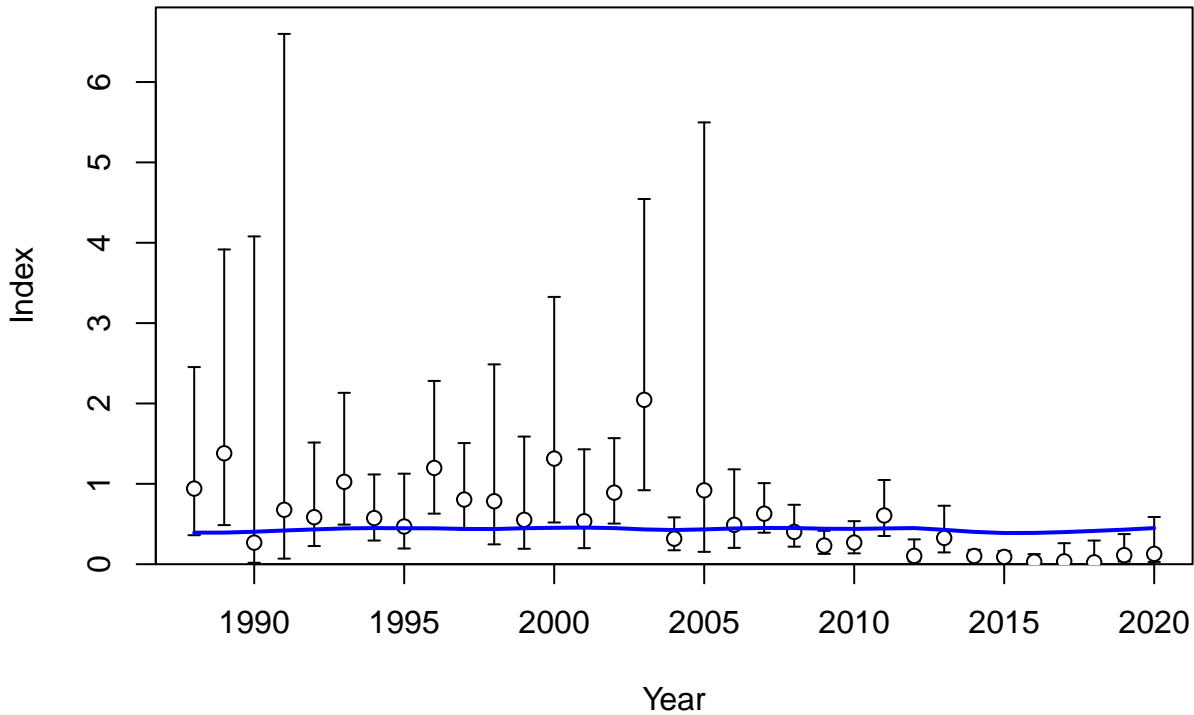
Fishing intensity: 1-SPR



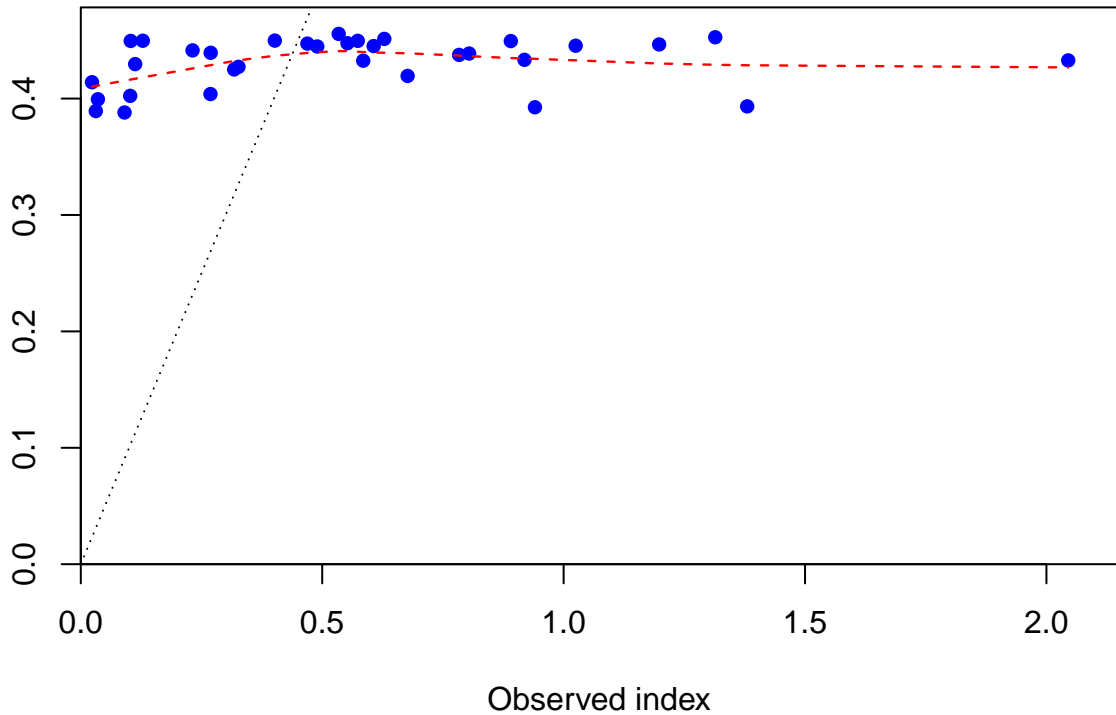
Fishing intensity: 1-SPR



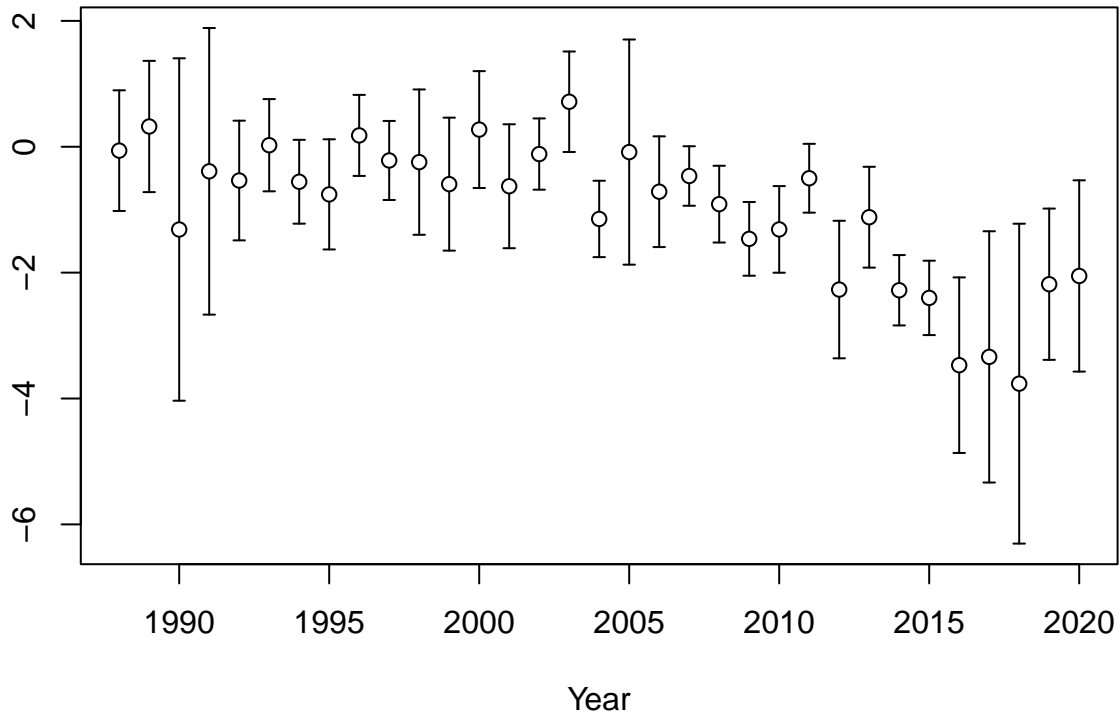




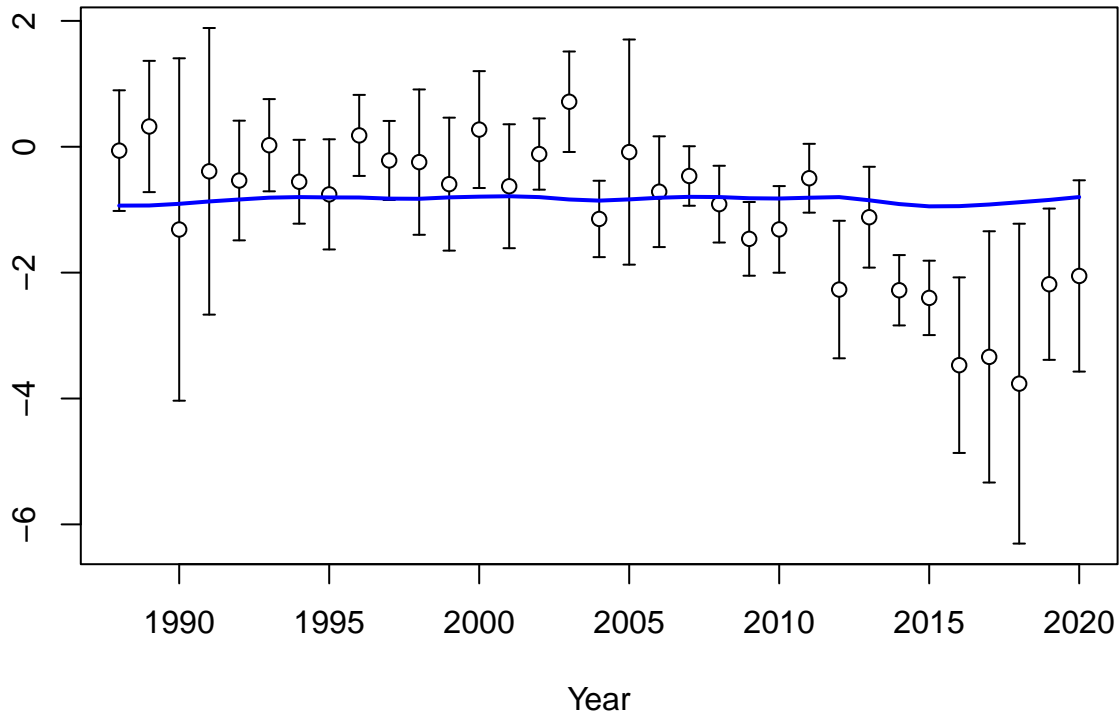
Expected index

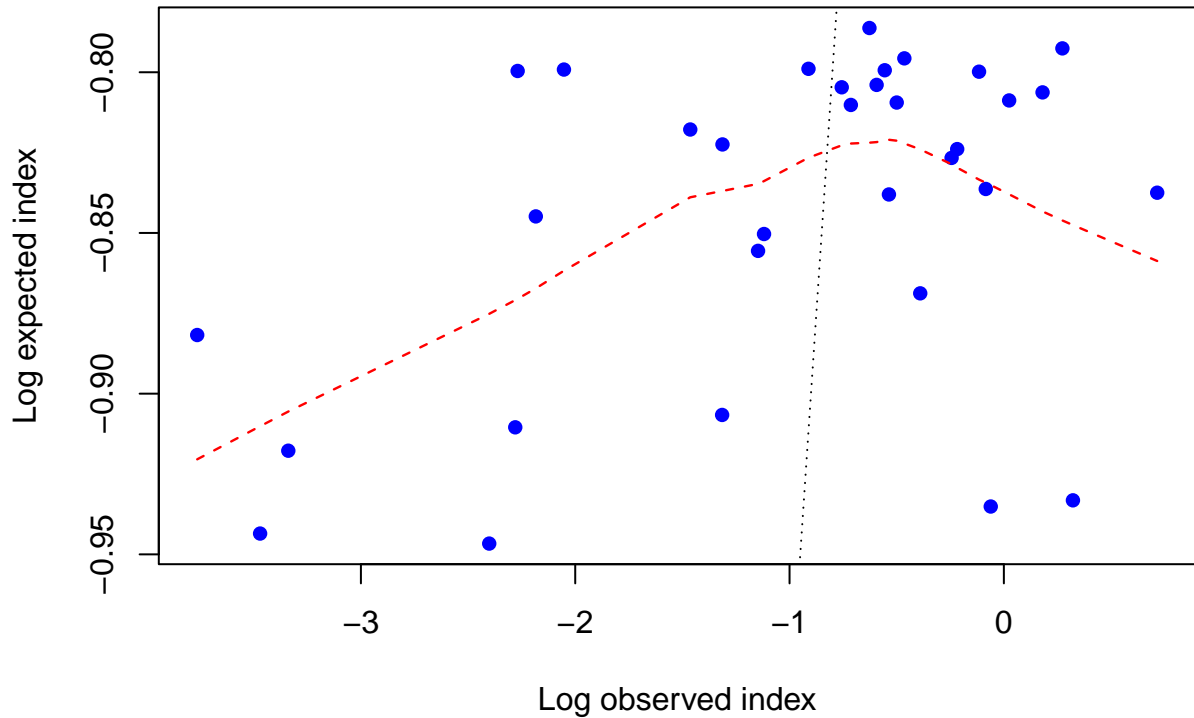


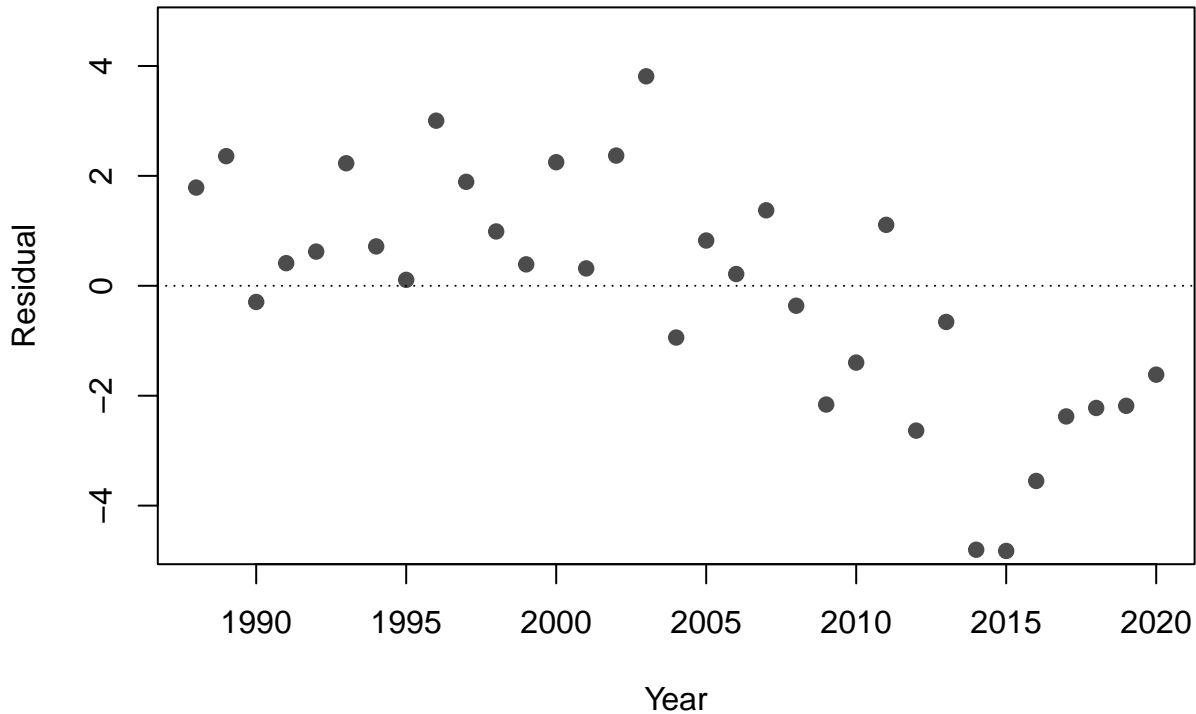
Log index



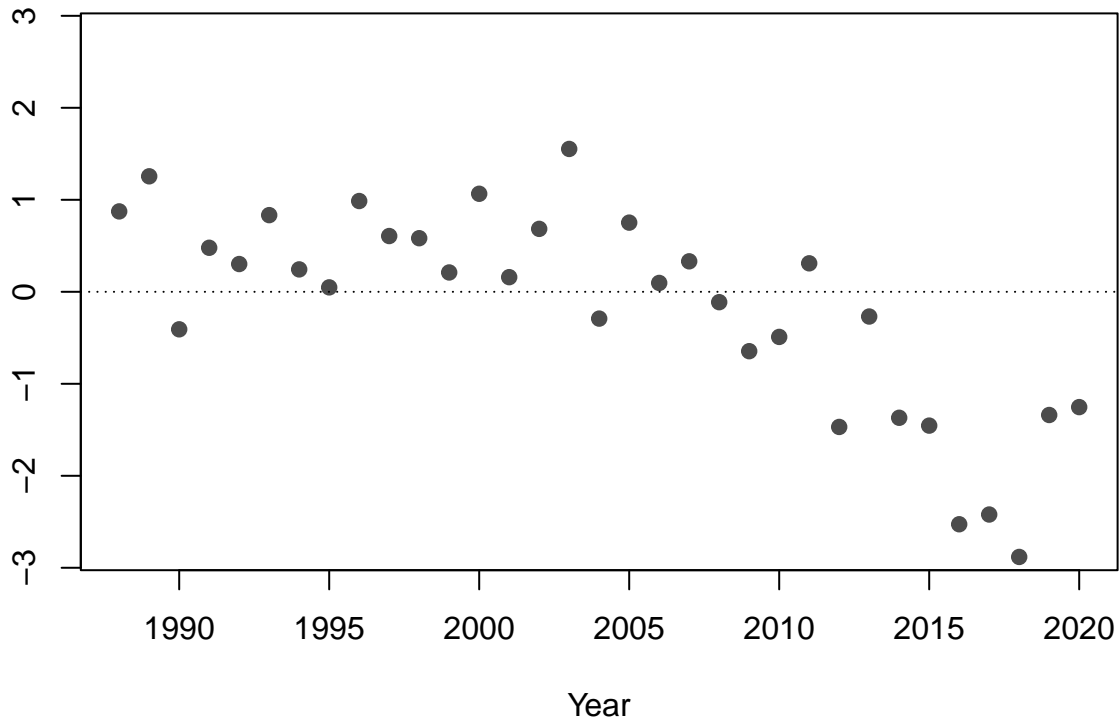
Log index

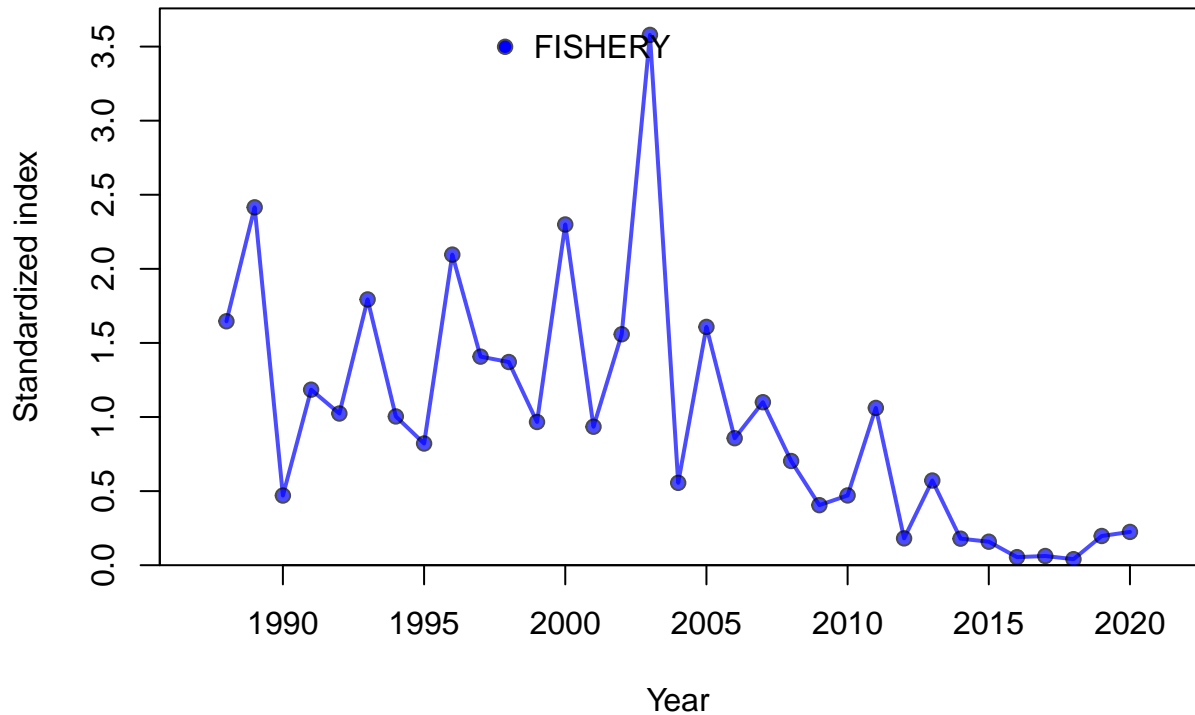


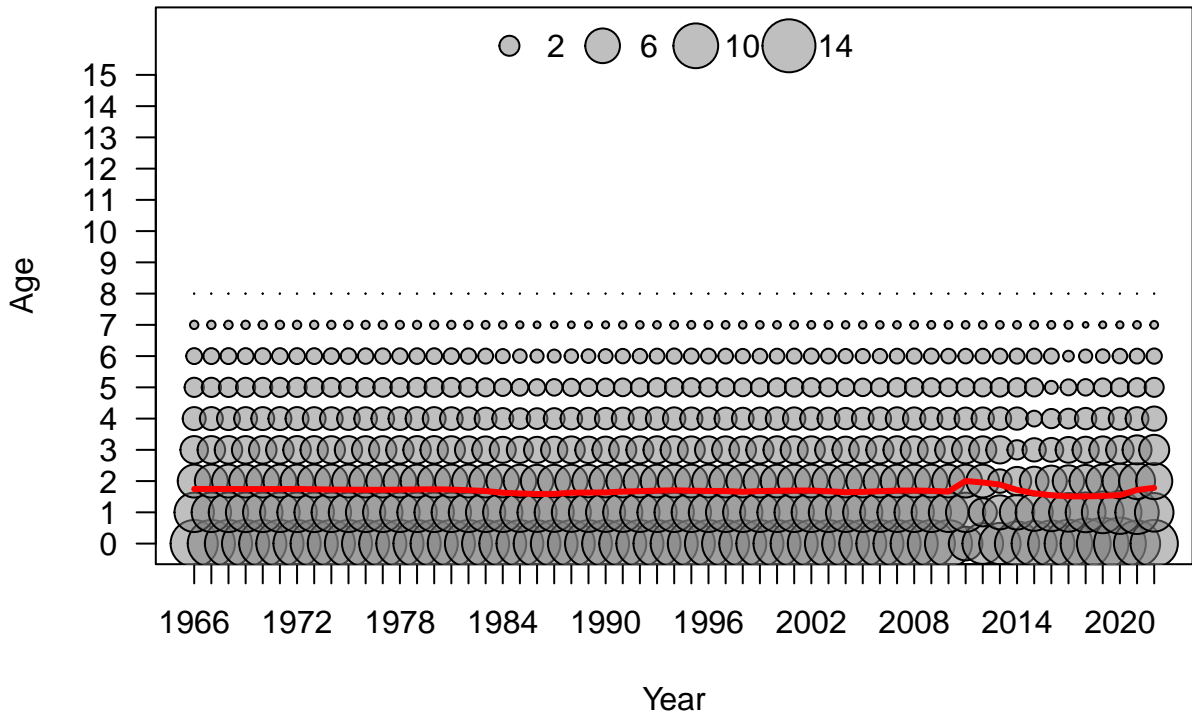


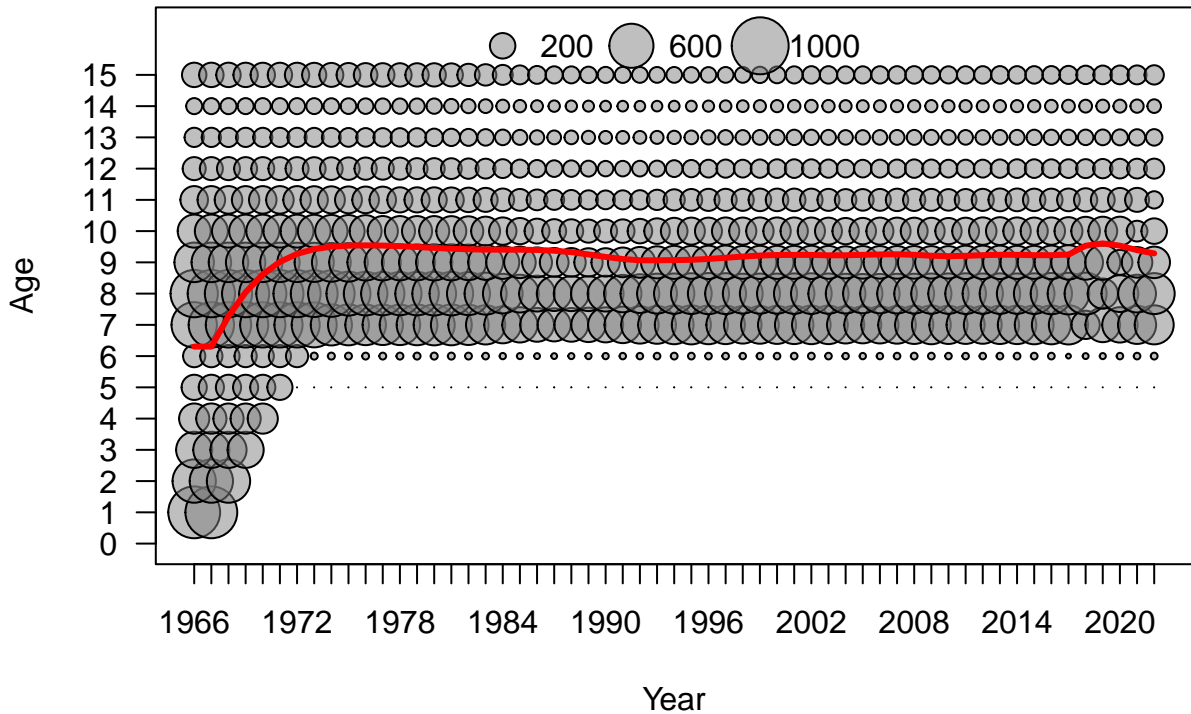


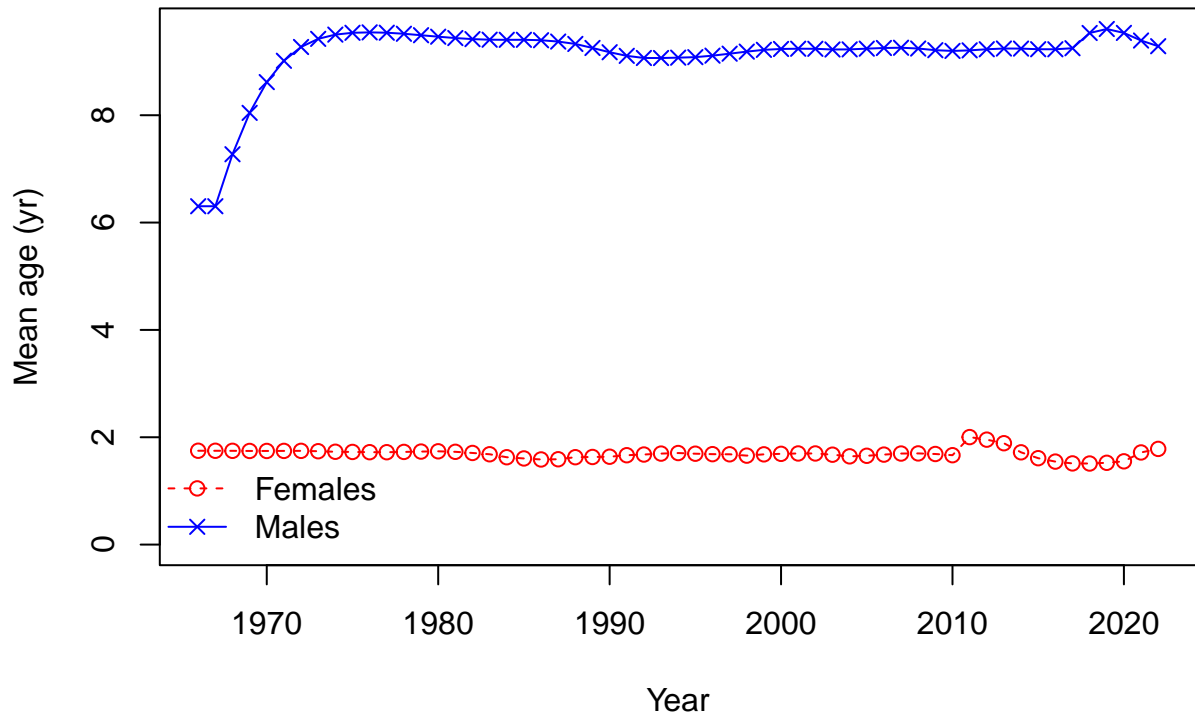
Deviation



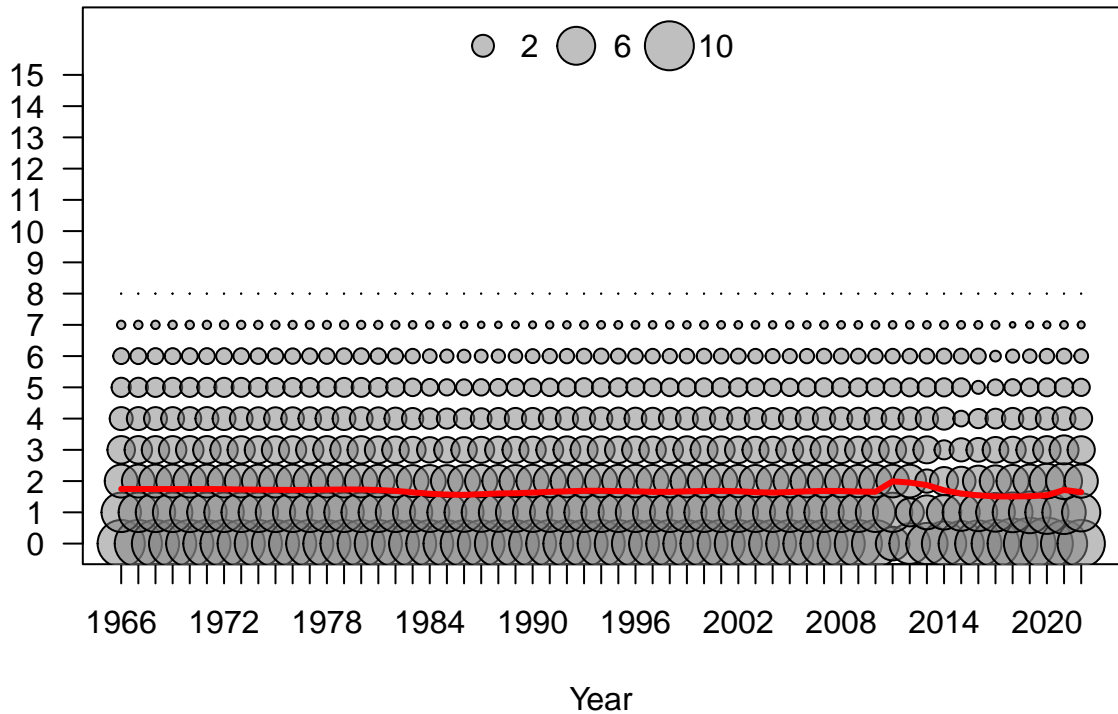


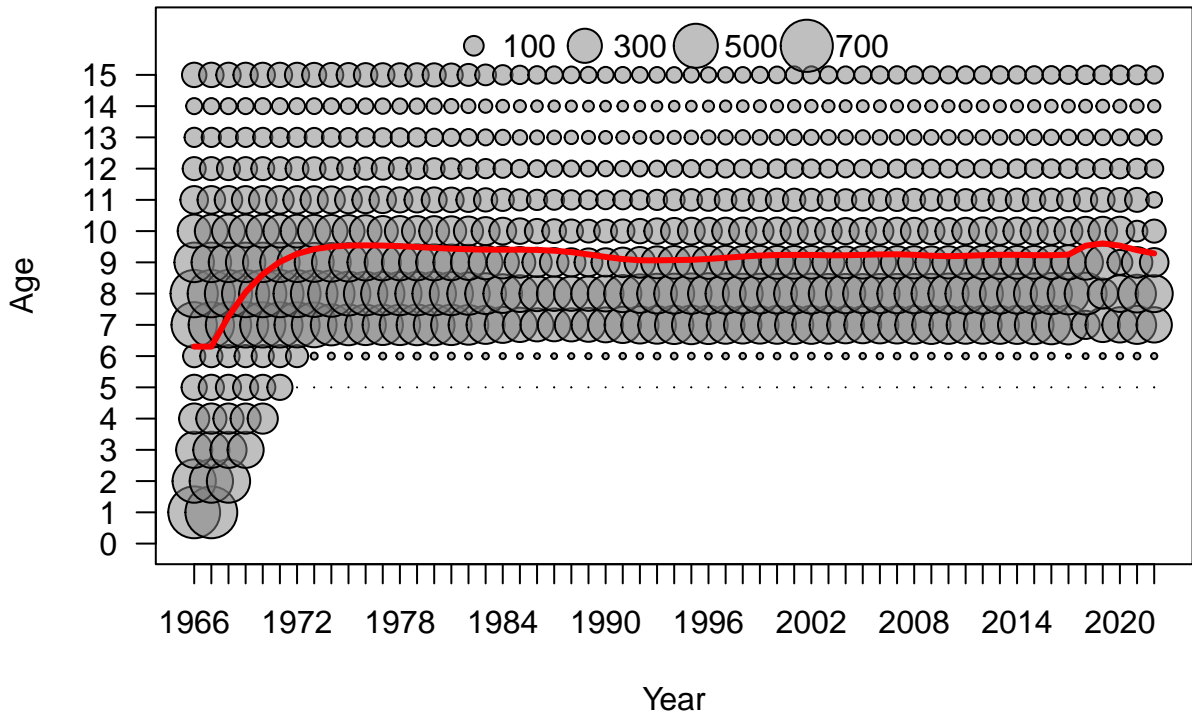


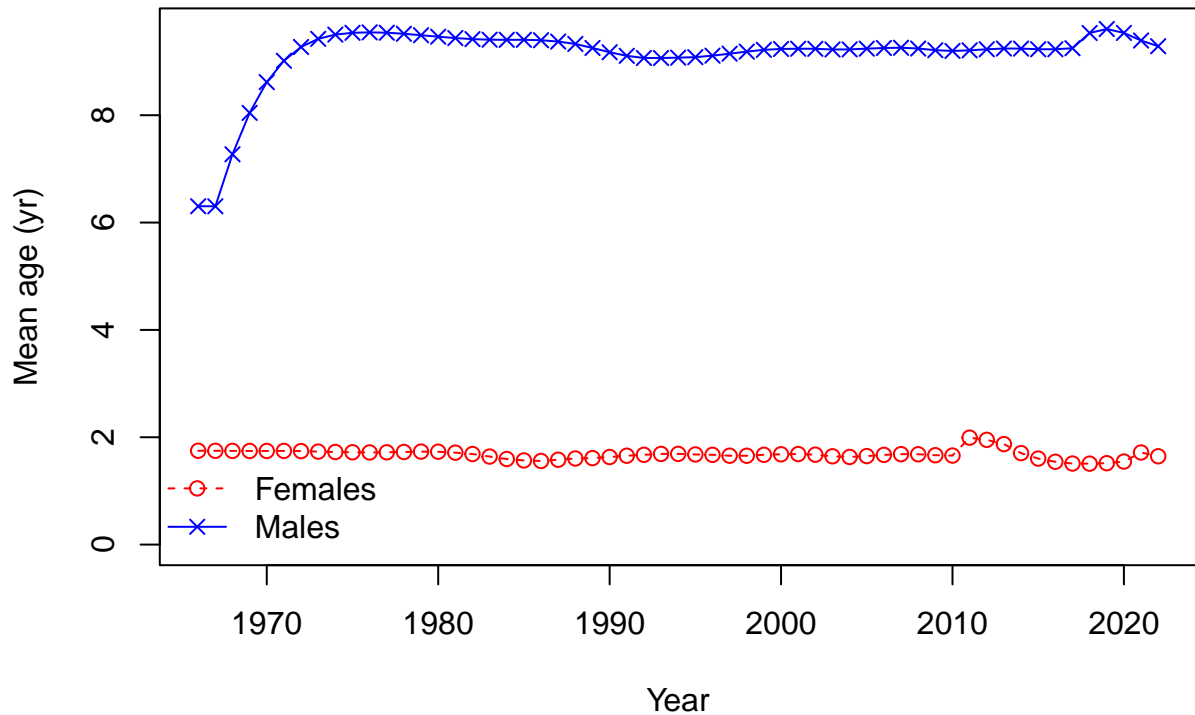




Age







Age

14
12
10
8
6
4
2
0

1

1970

1980

1990

2000

2010

2020

Year

0.7

0.4

0.5

0.6

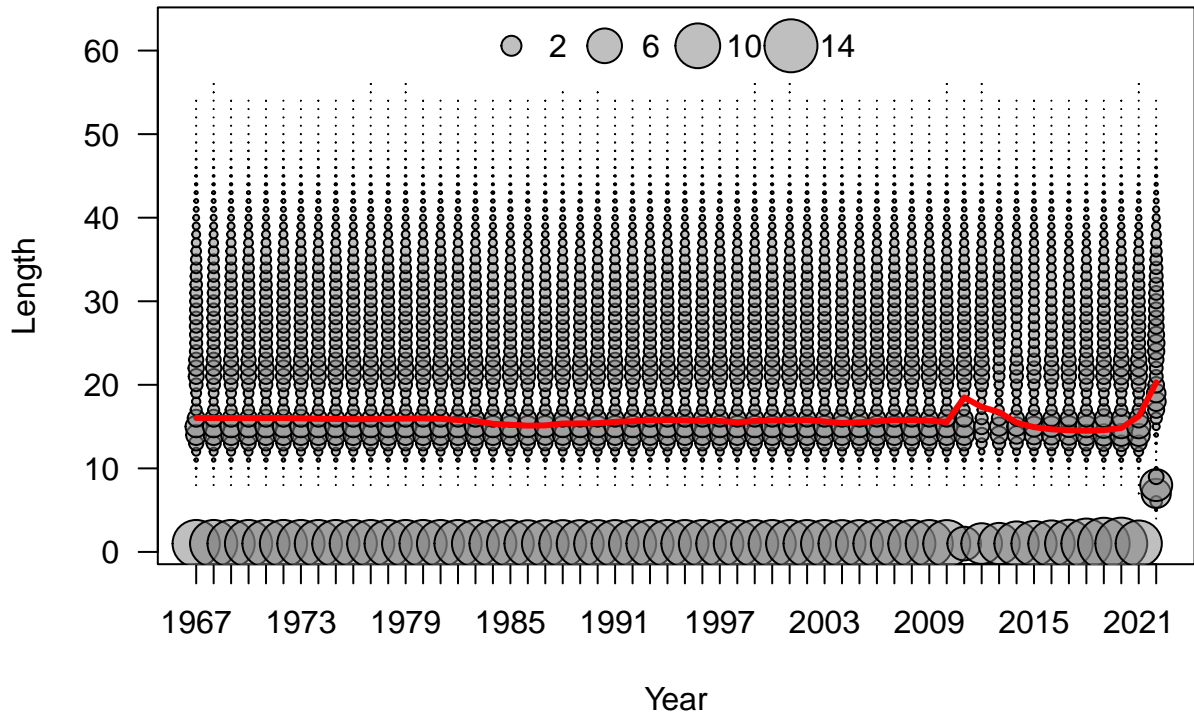
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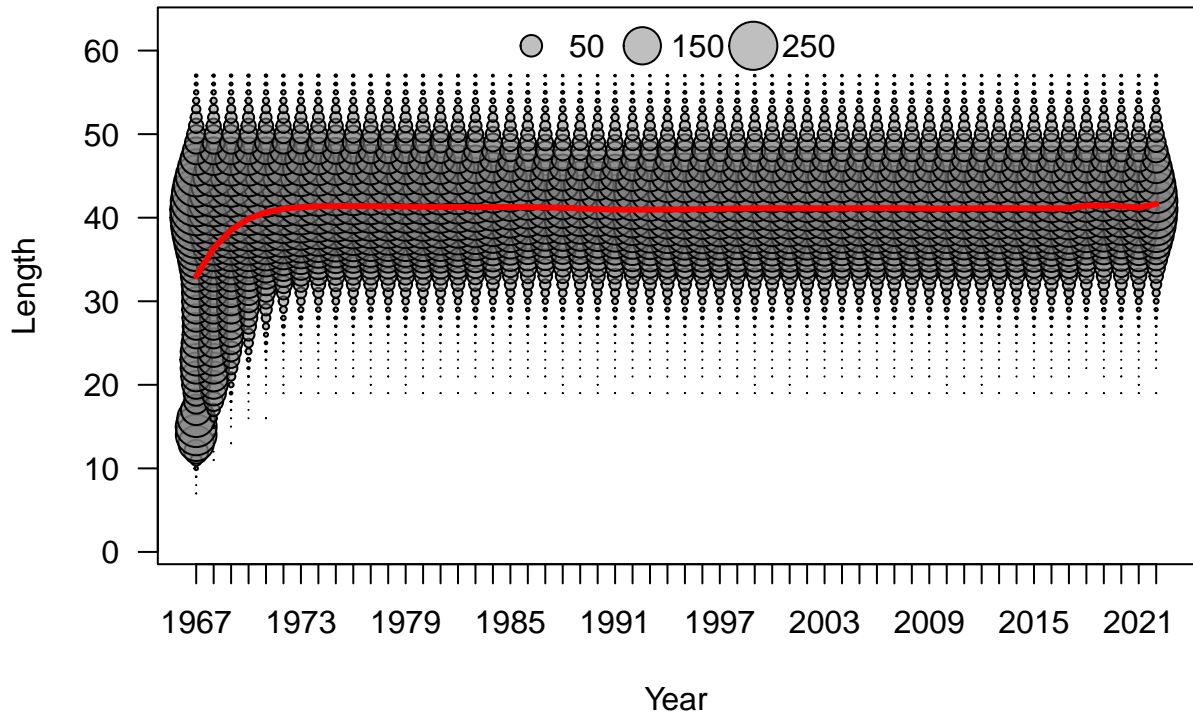
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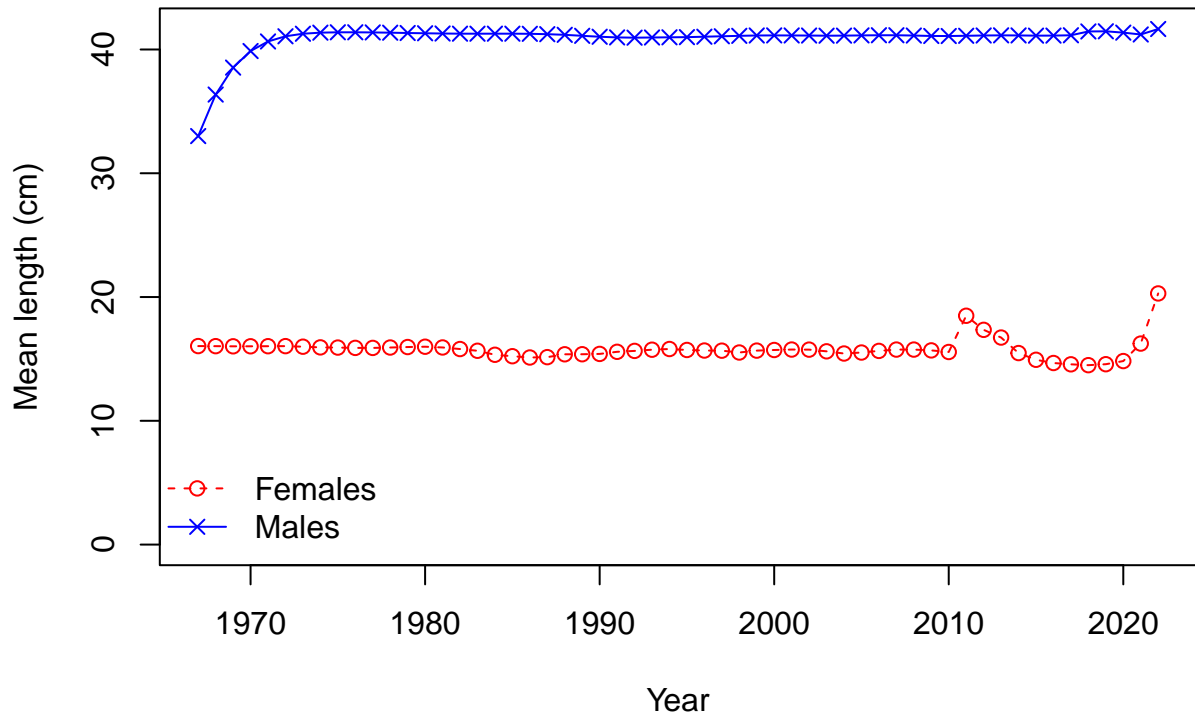
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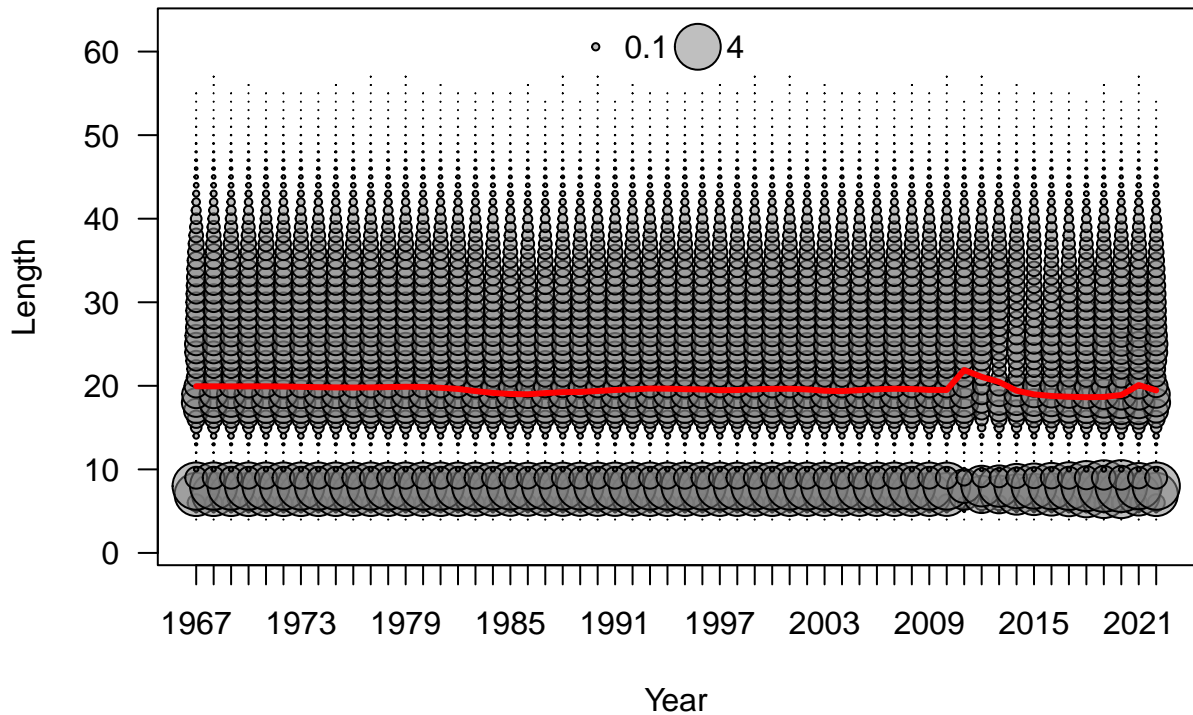
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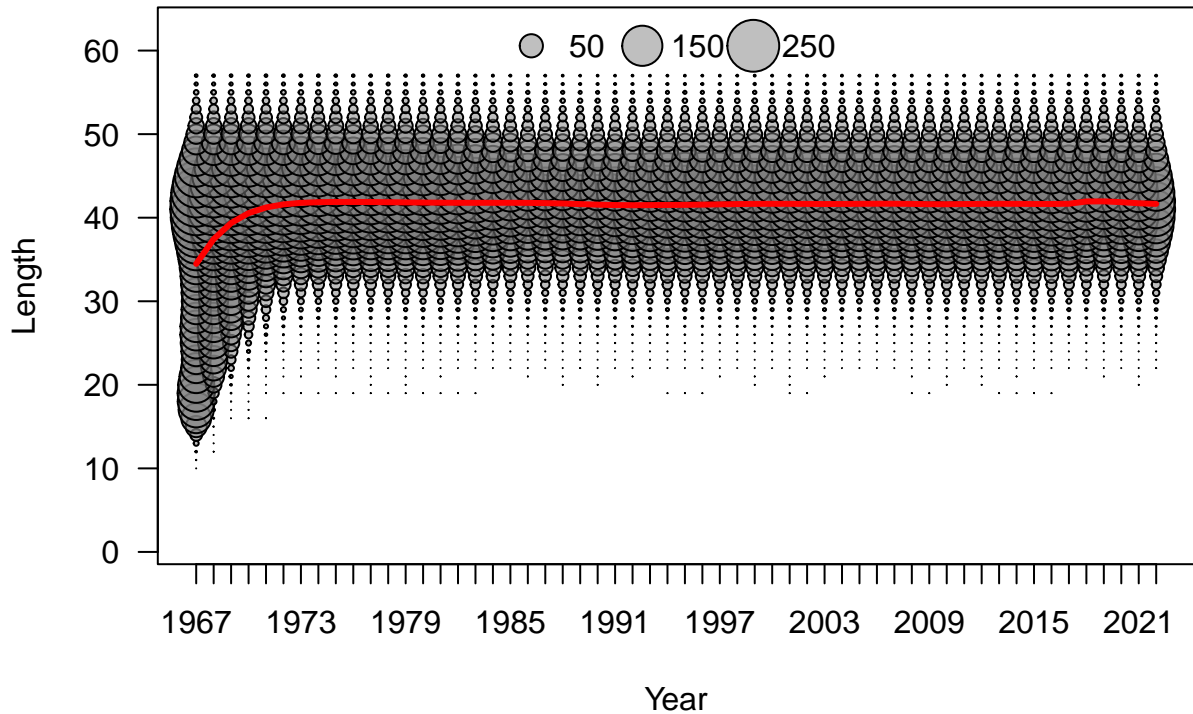
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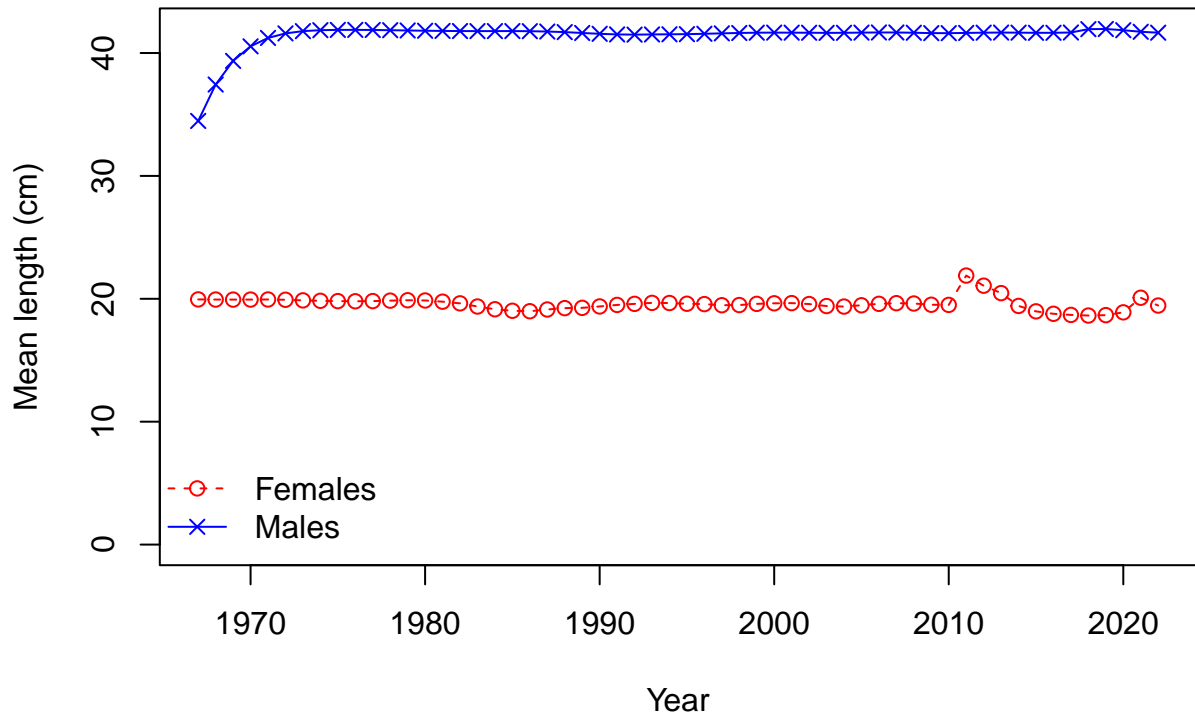




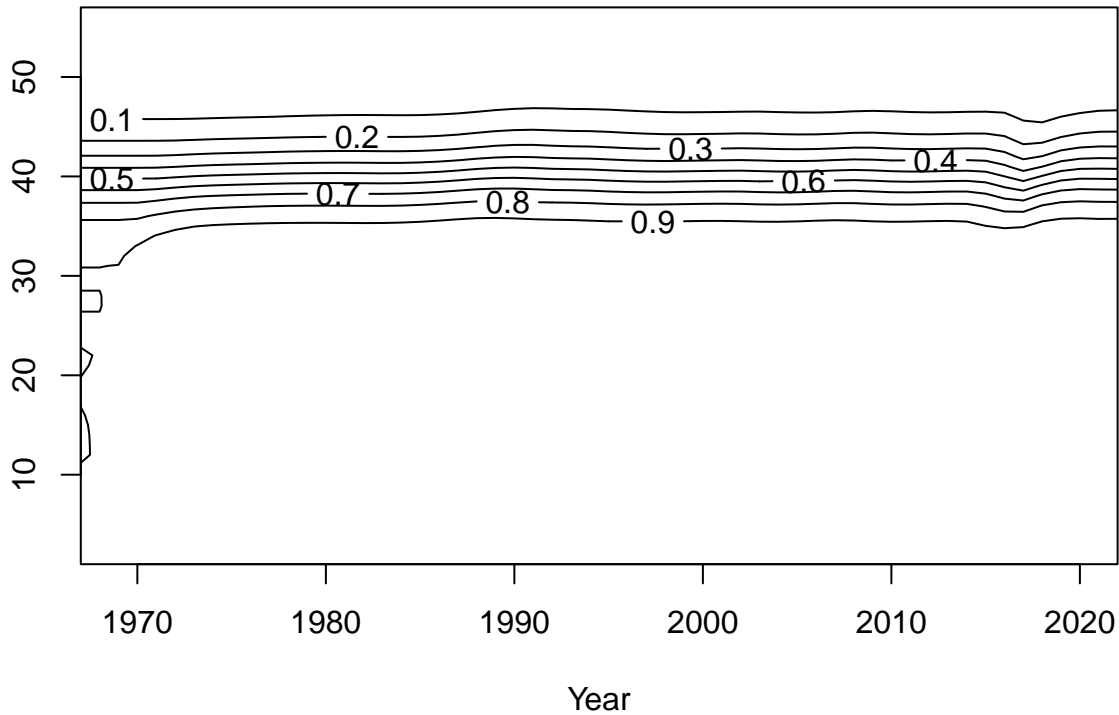


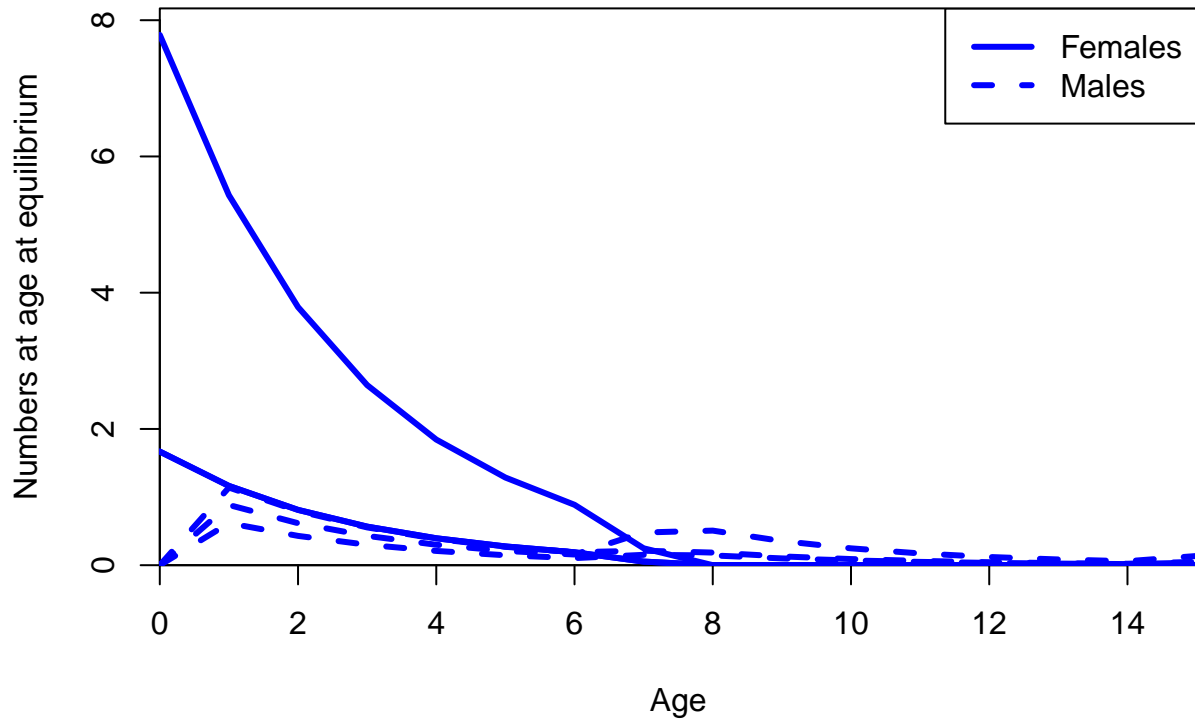


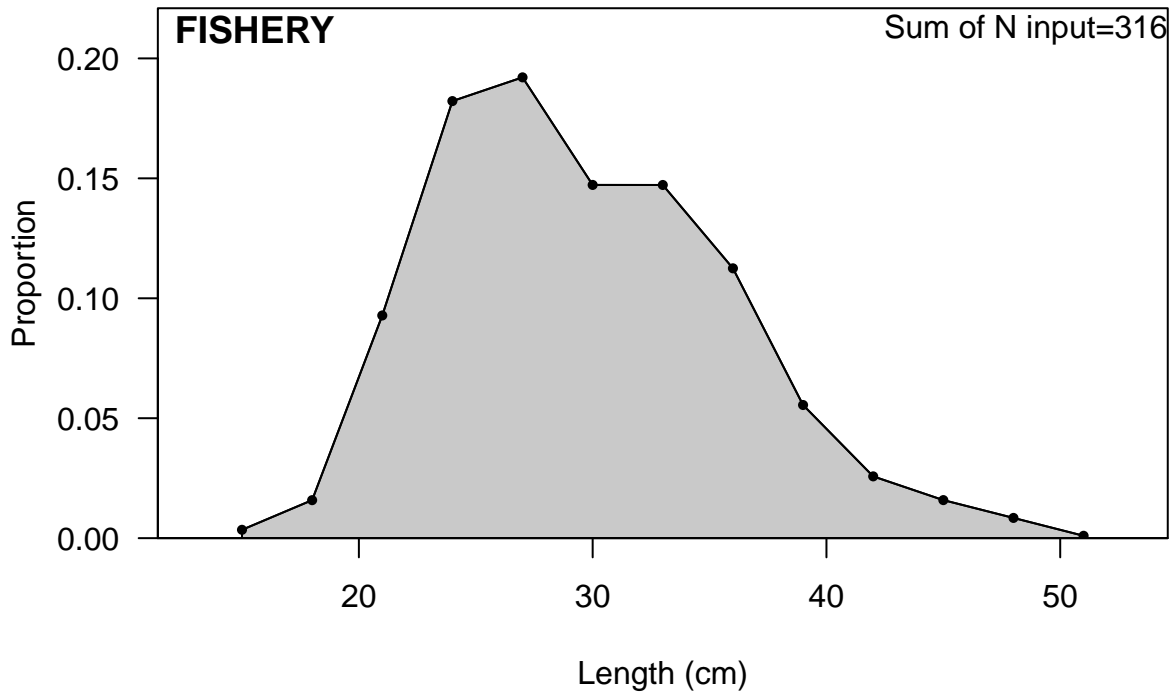


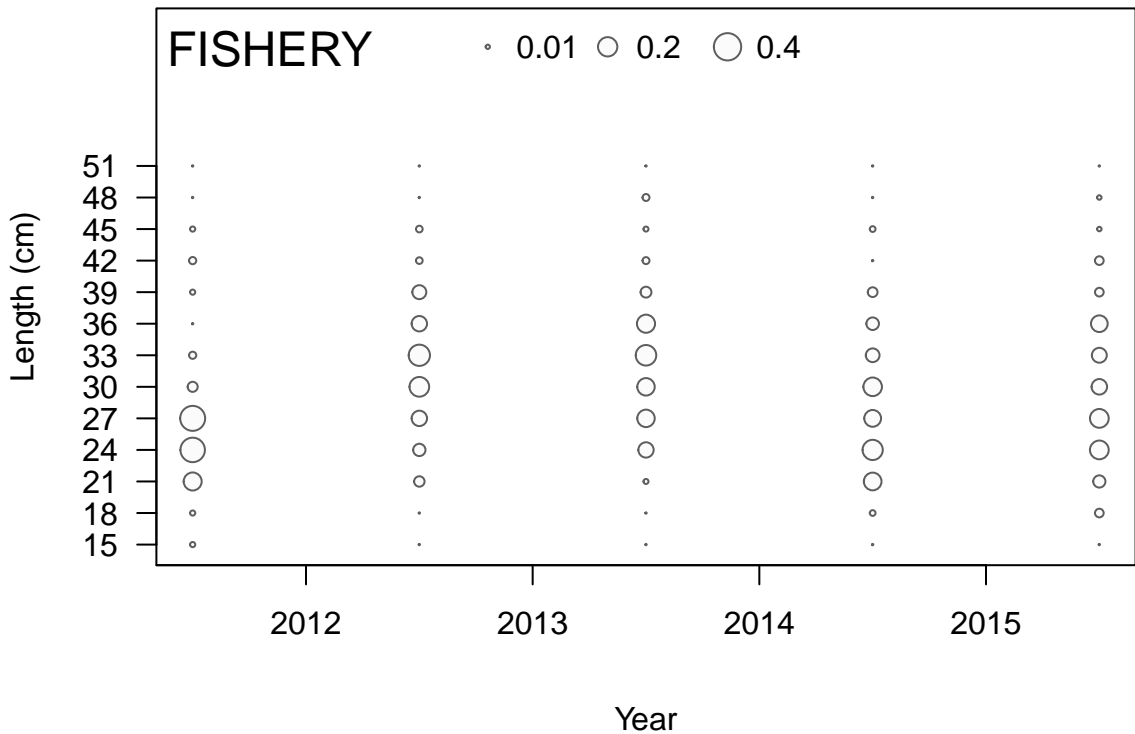


Length

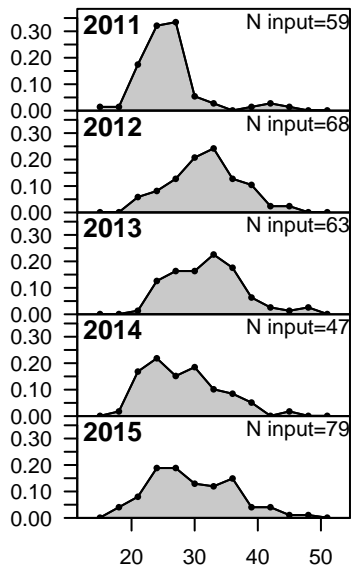




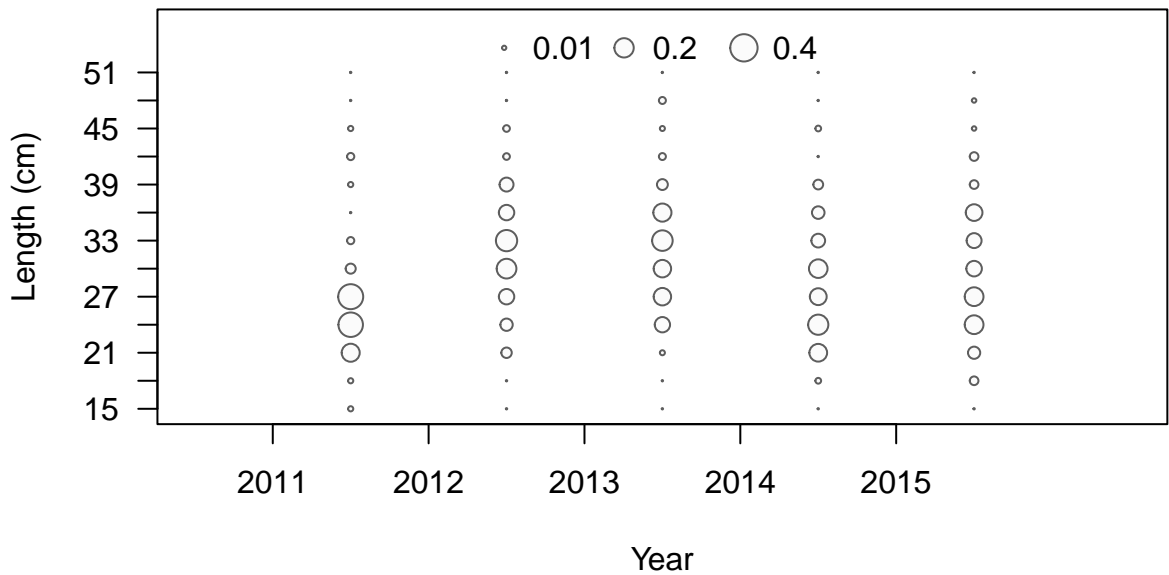




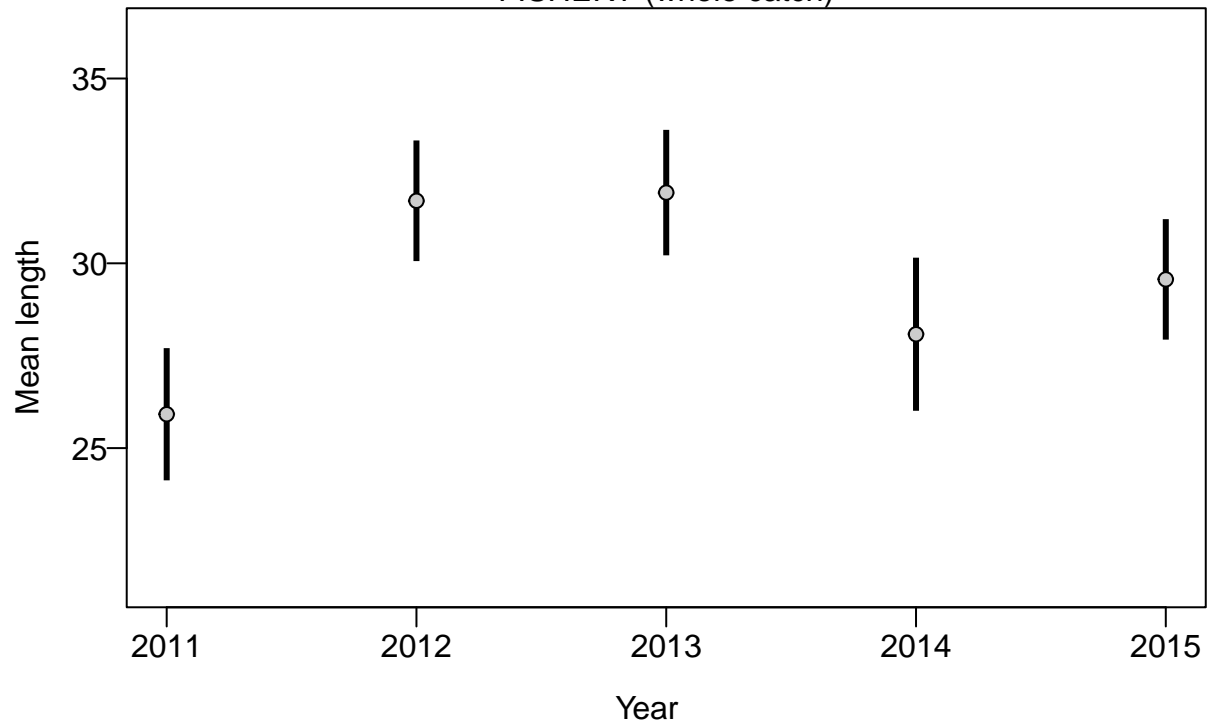
Proportion

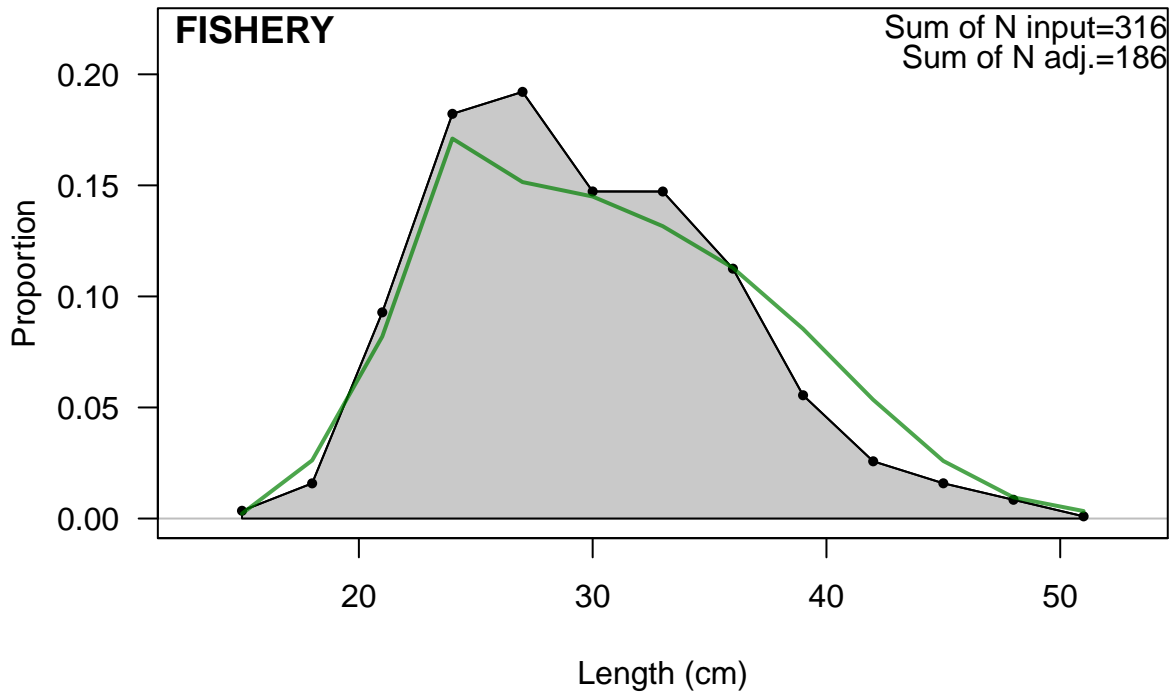


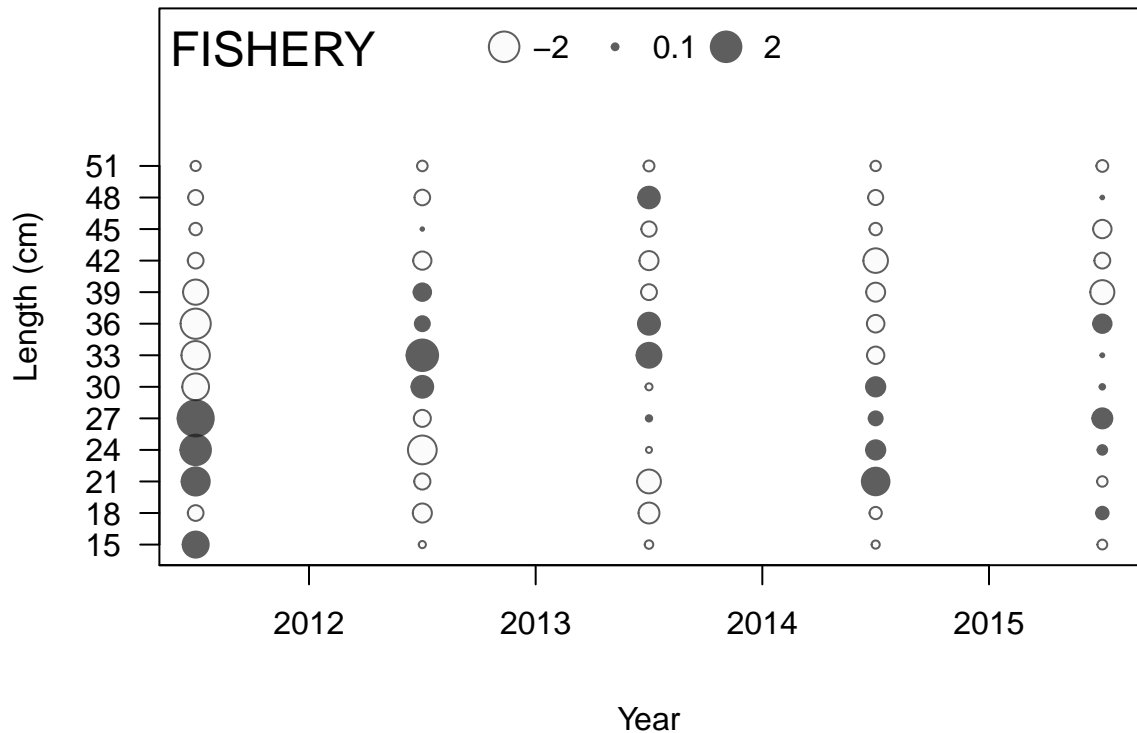
Length (cm)



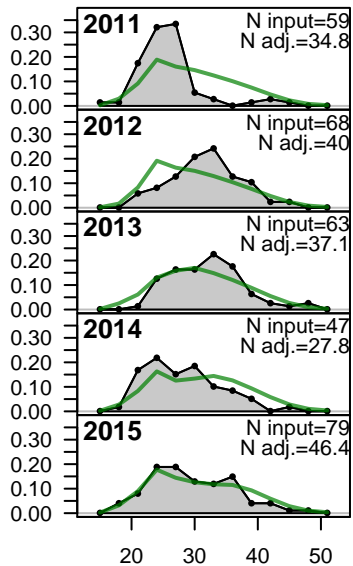
FISHERY (whole catch)



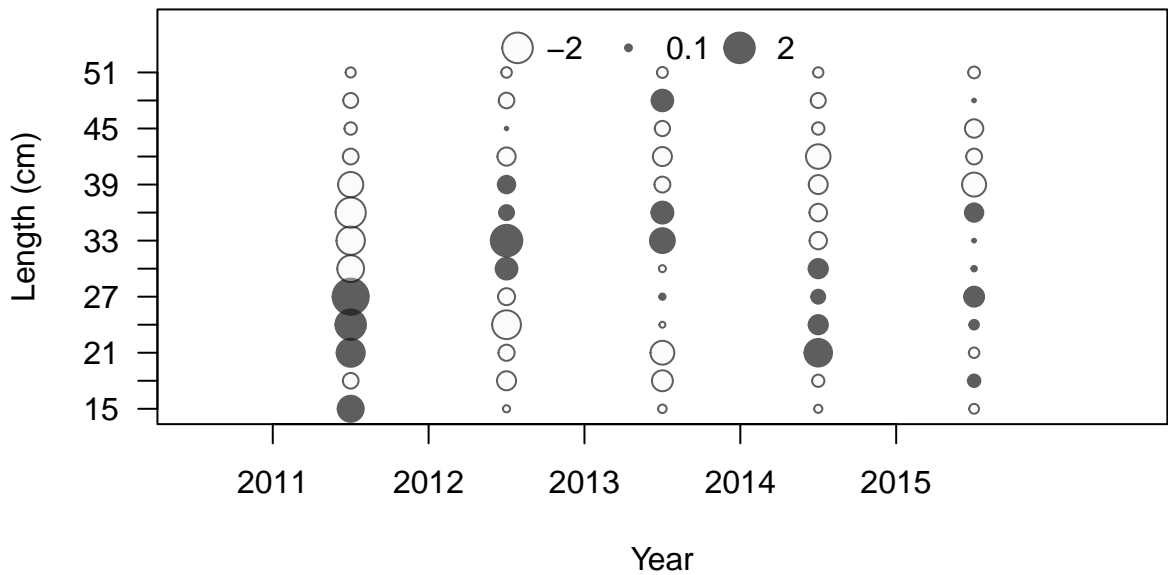




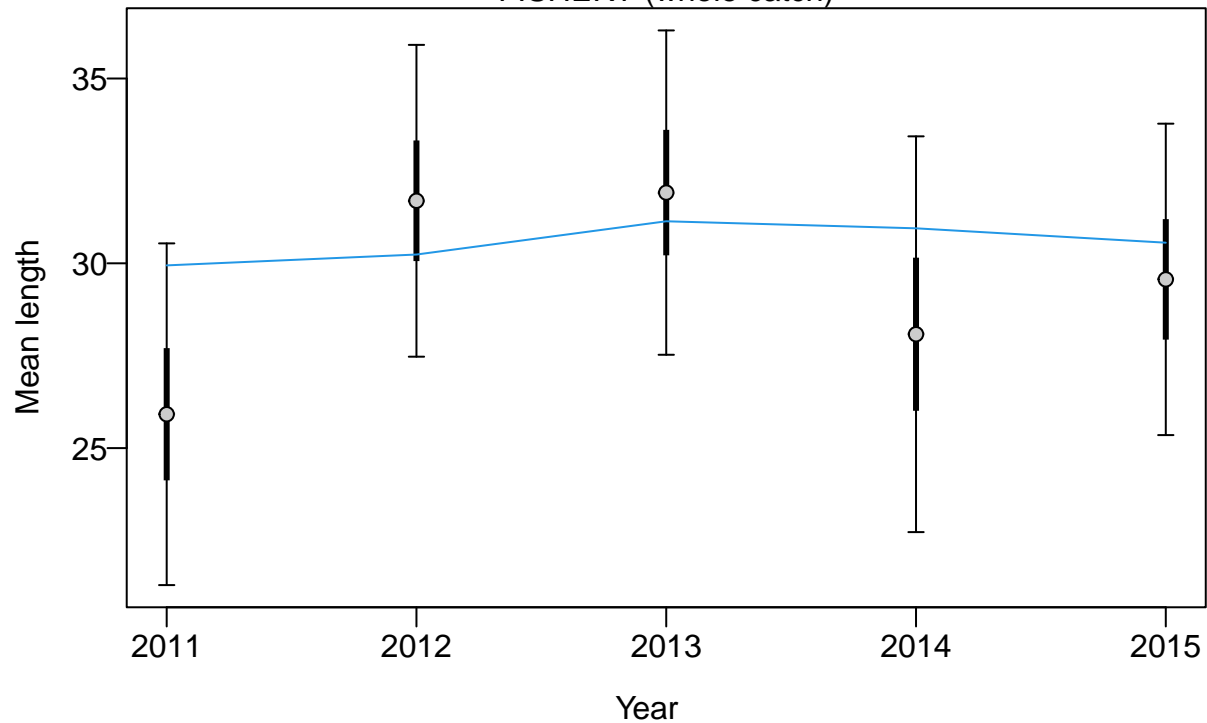
Proportion

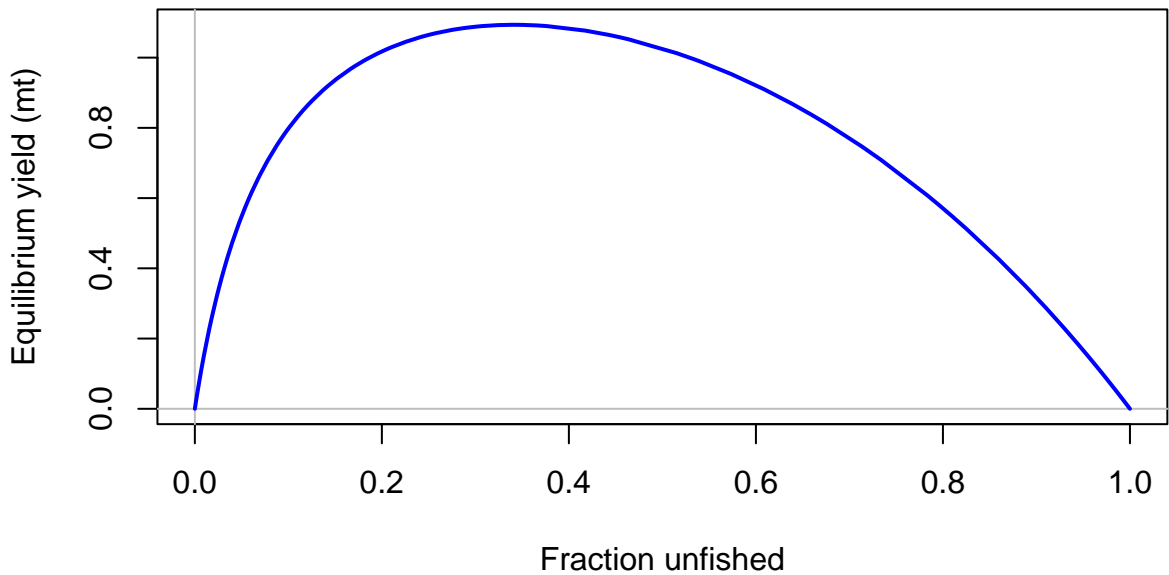


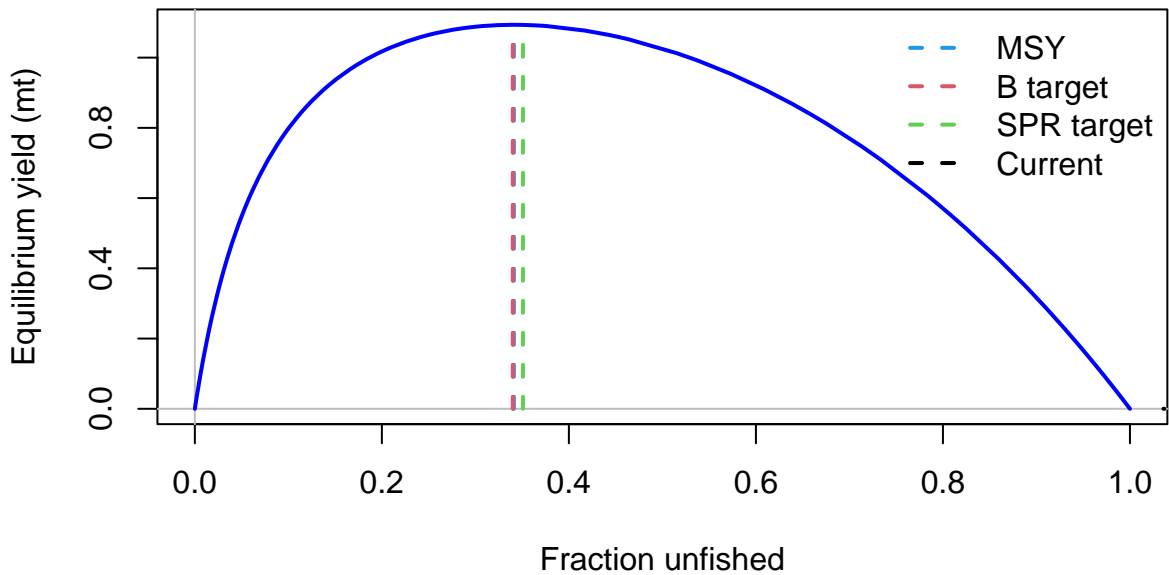
Length (cm)

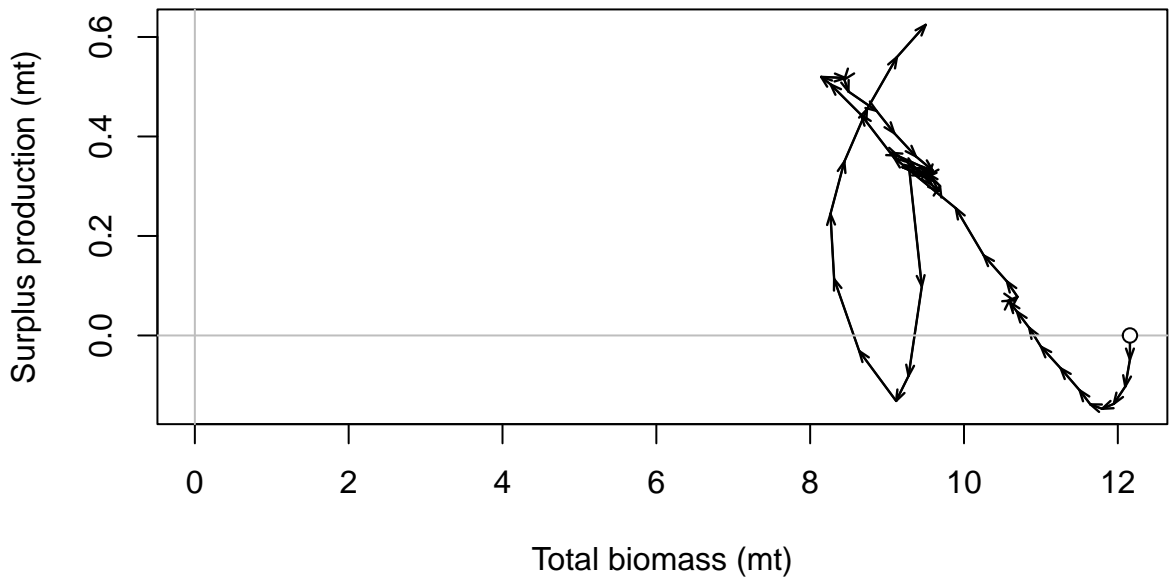


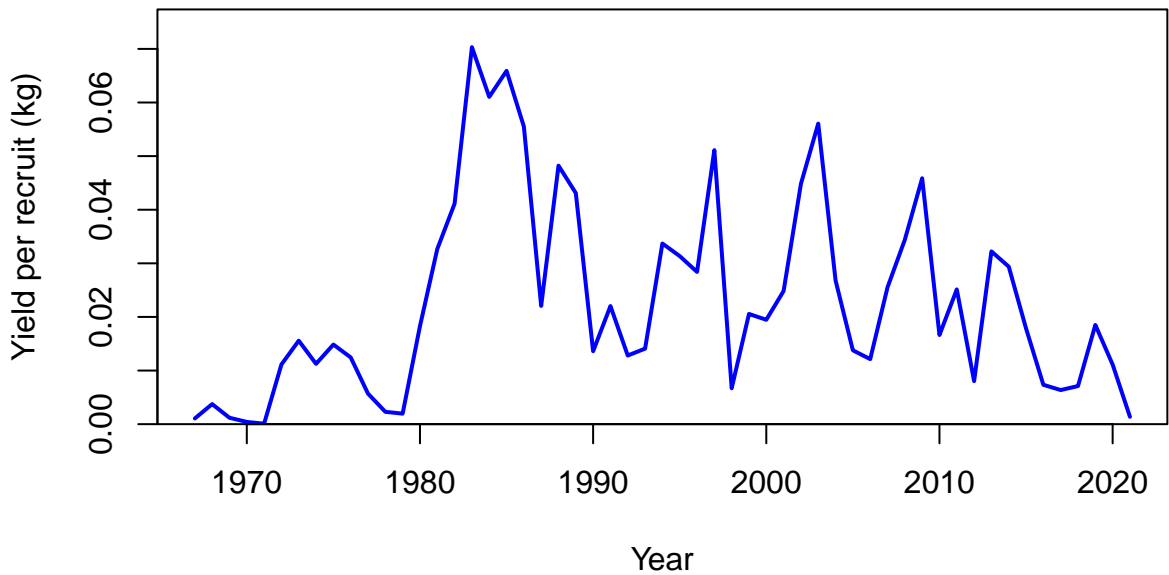
FISHERY (whole catch)

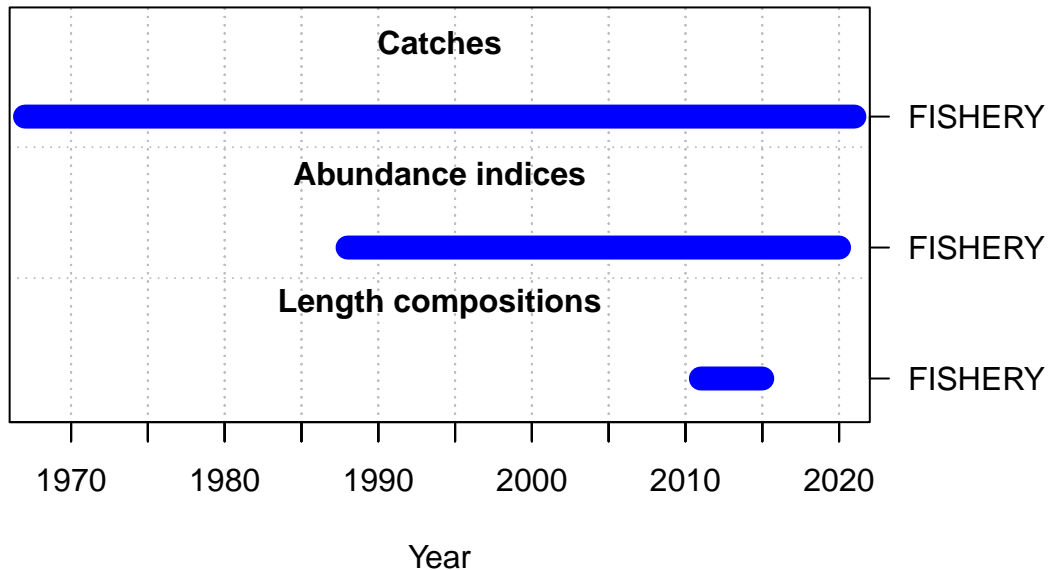


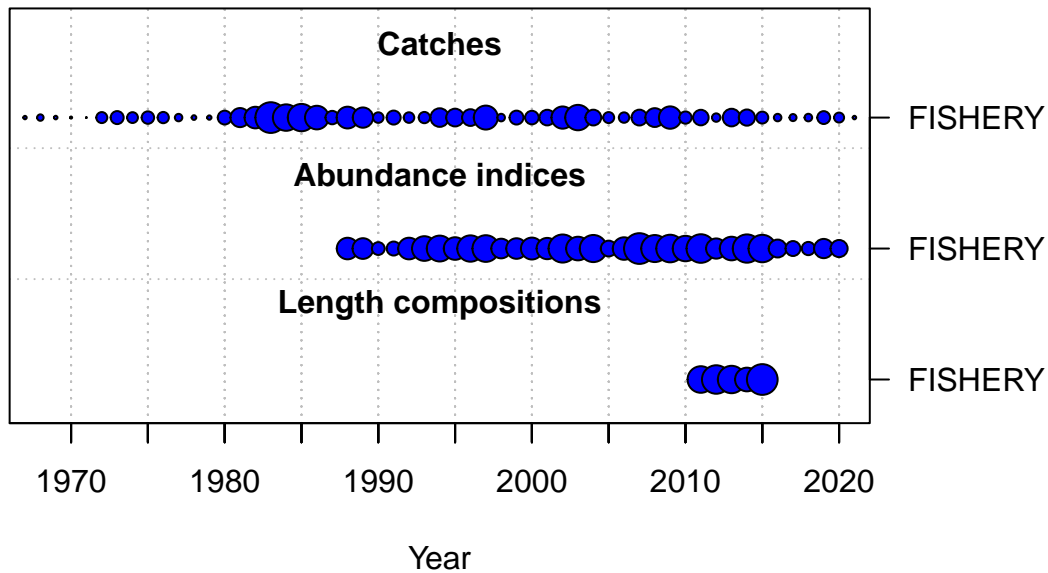






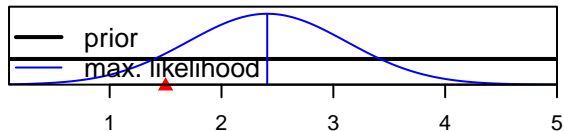




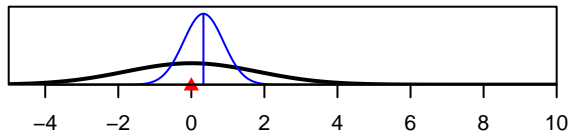


Density

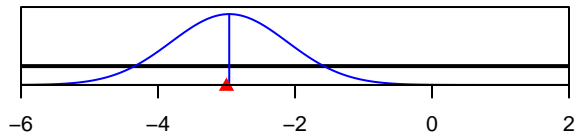
SR_LN(R0)



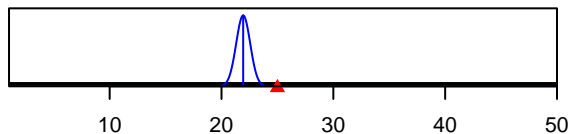
ln(DM_theta)_1



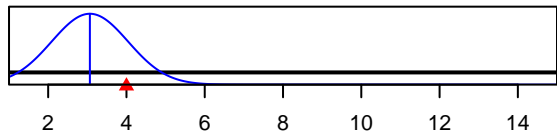
LnQ_base_FISHERY(1)



Size_inflection_FISHERY(1)



Size_95%width_FISHERY(1)



Parameter value