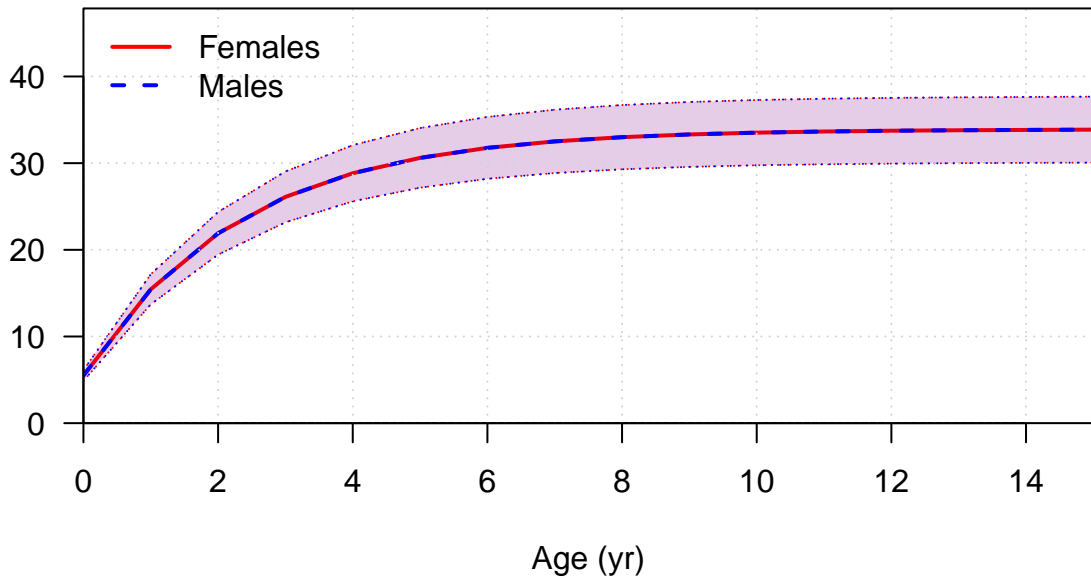
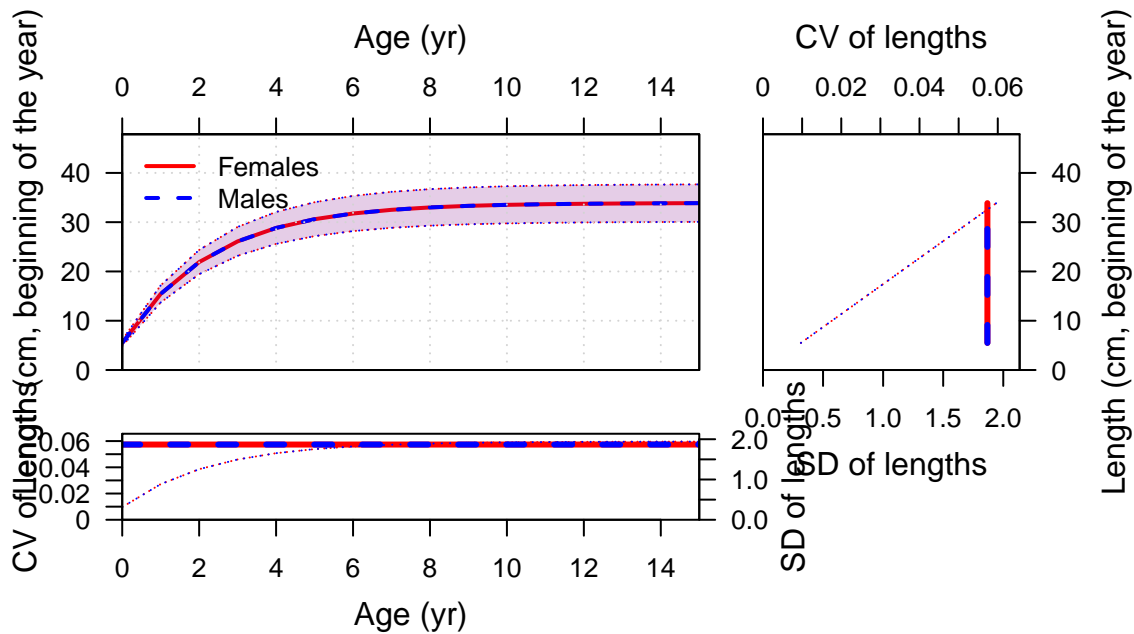
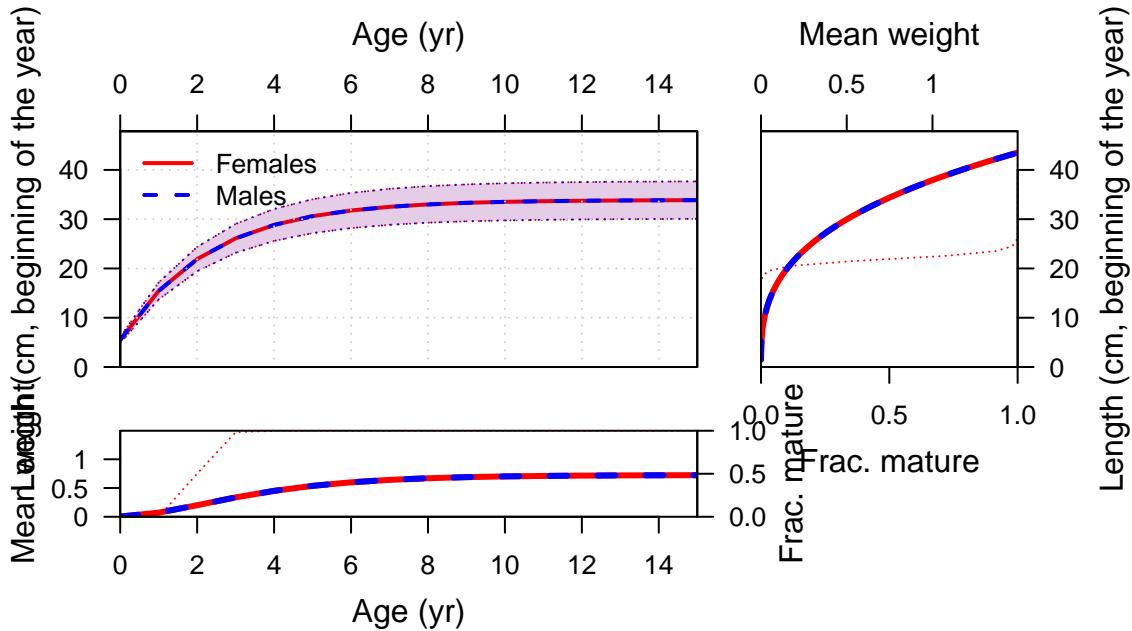


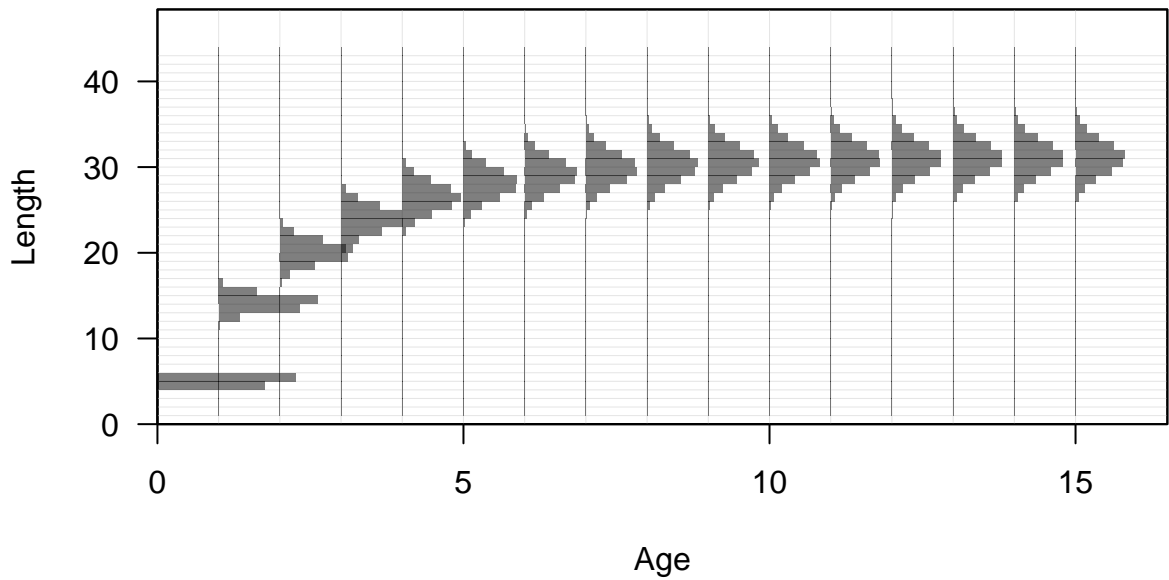
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Stock Synthesis version: 3.30.19.0  
StartTime: Tue Feb 14 09:41:10 2023  
Data\_File: data.ss  
Control\_File: control.ss

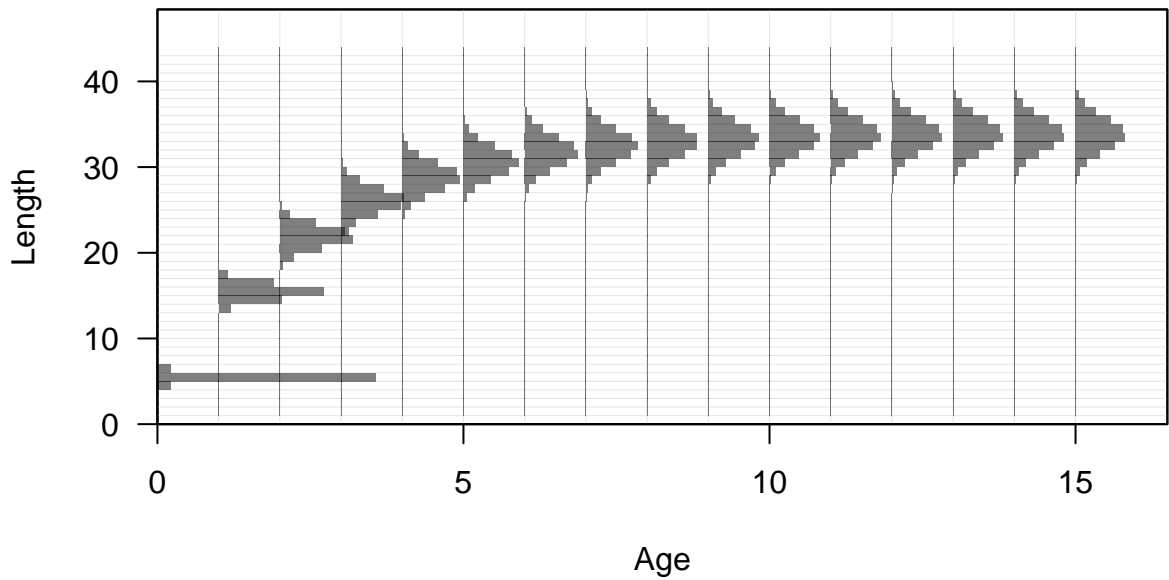
Length (cm, beginning of the year)

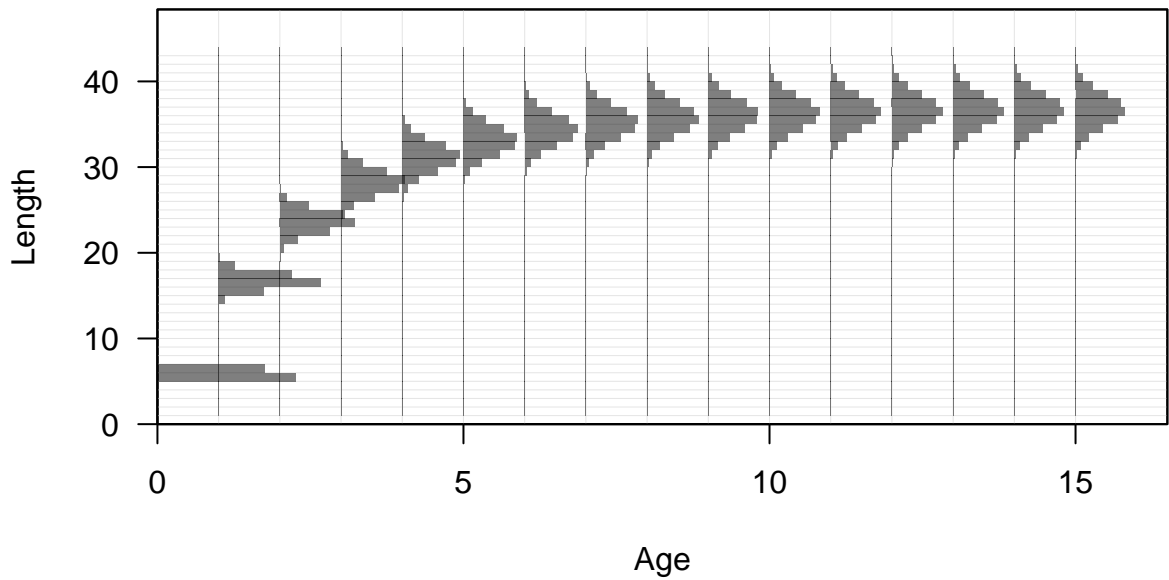


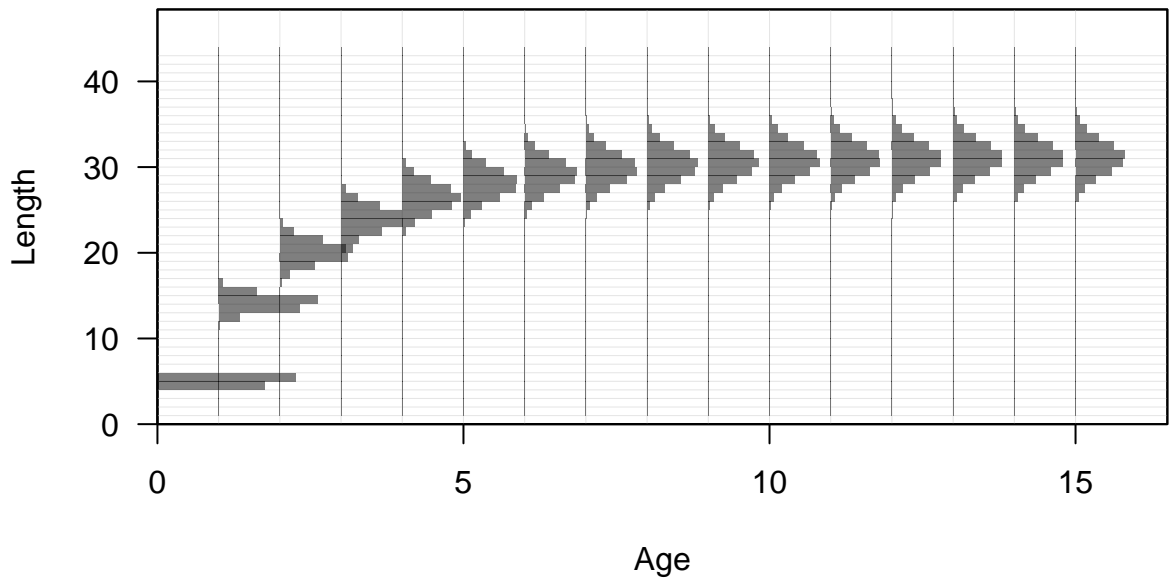




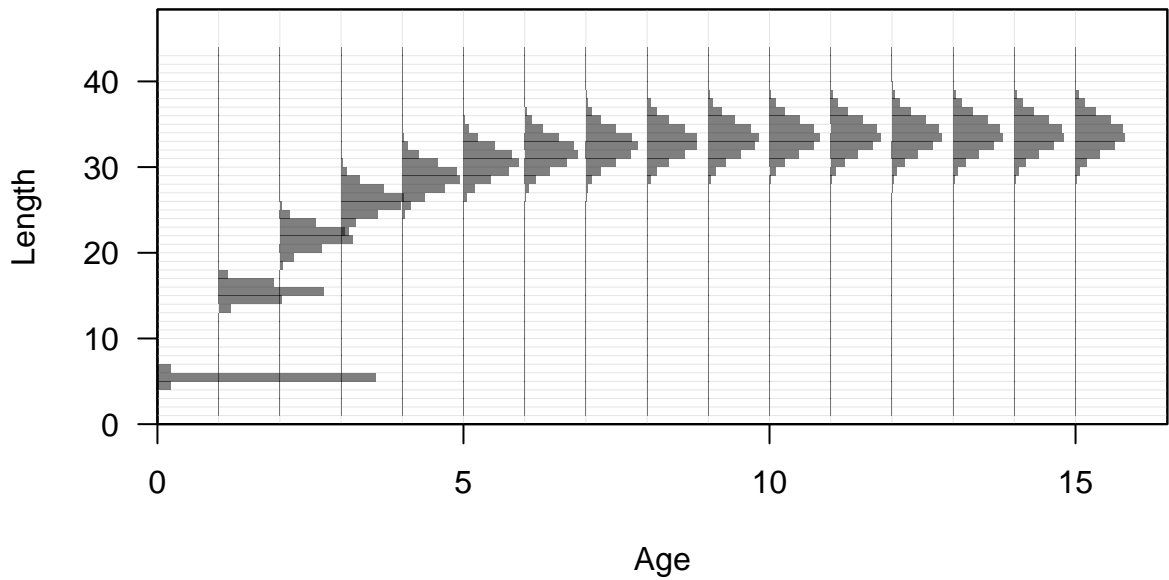


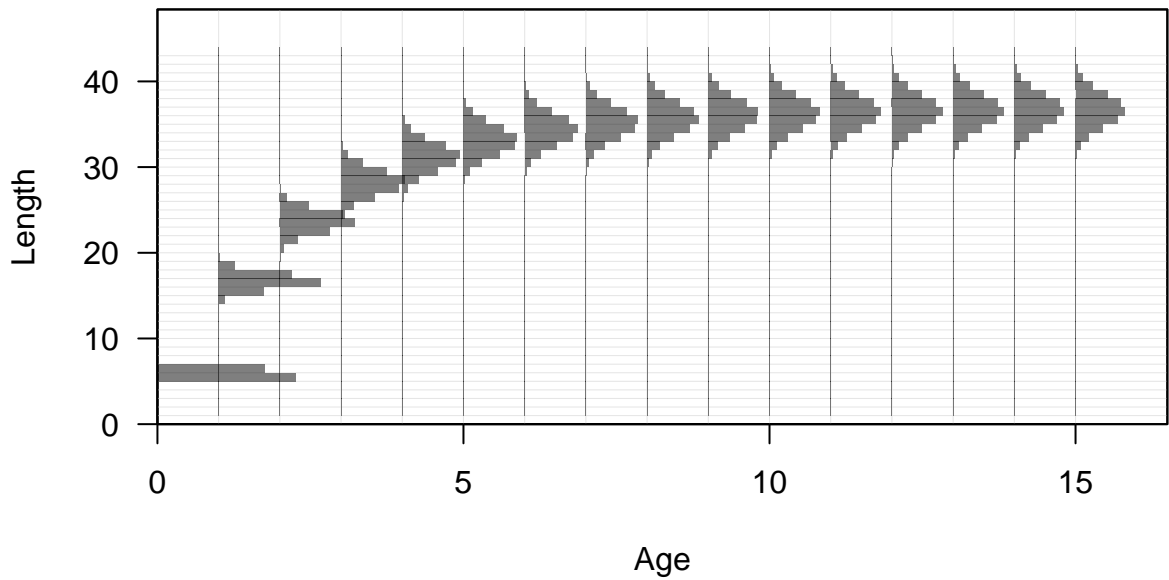


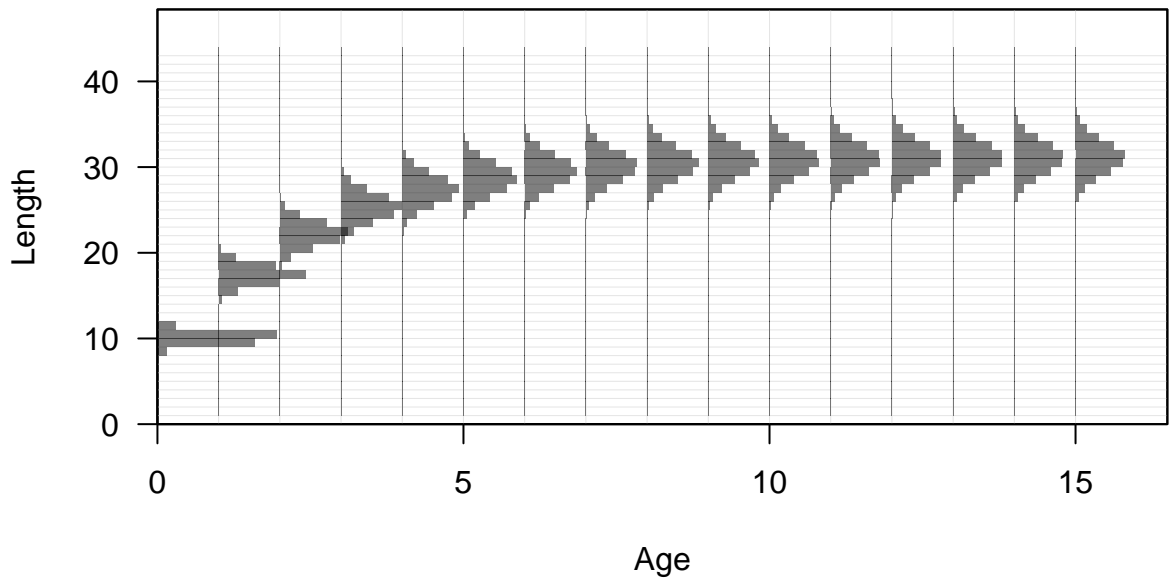


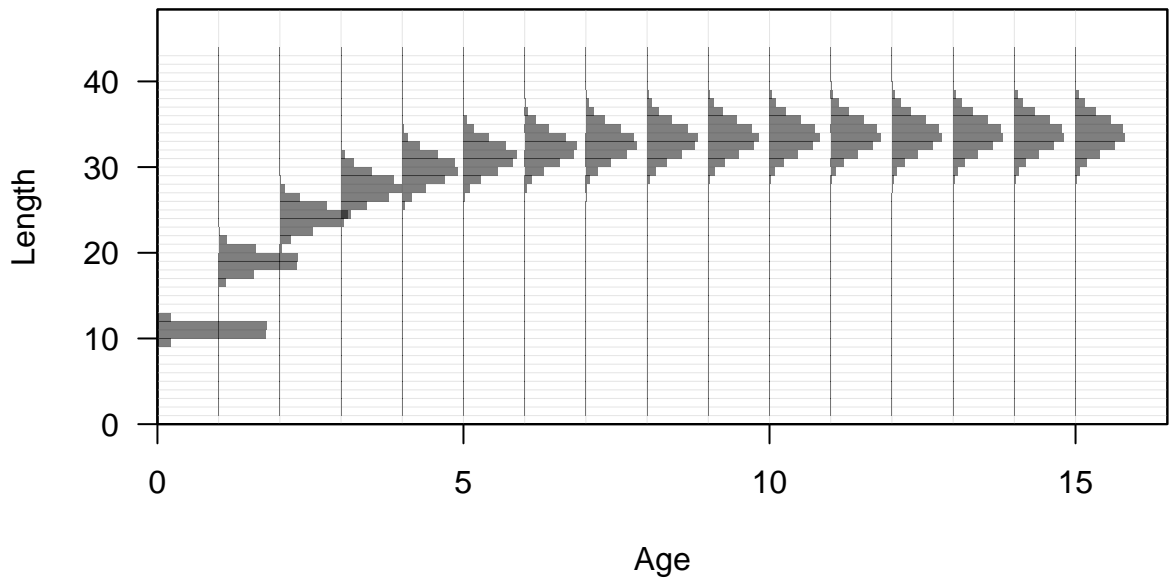


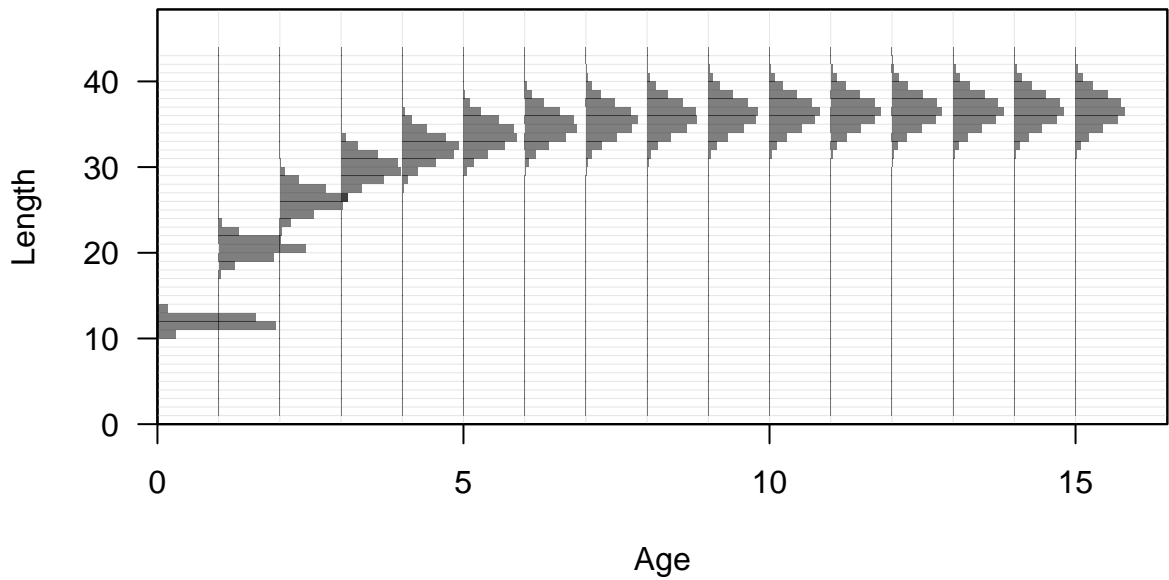


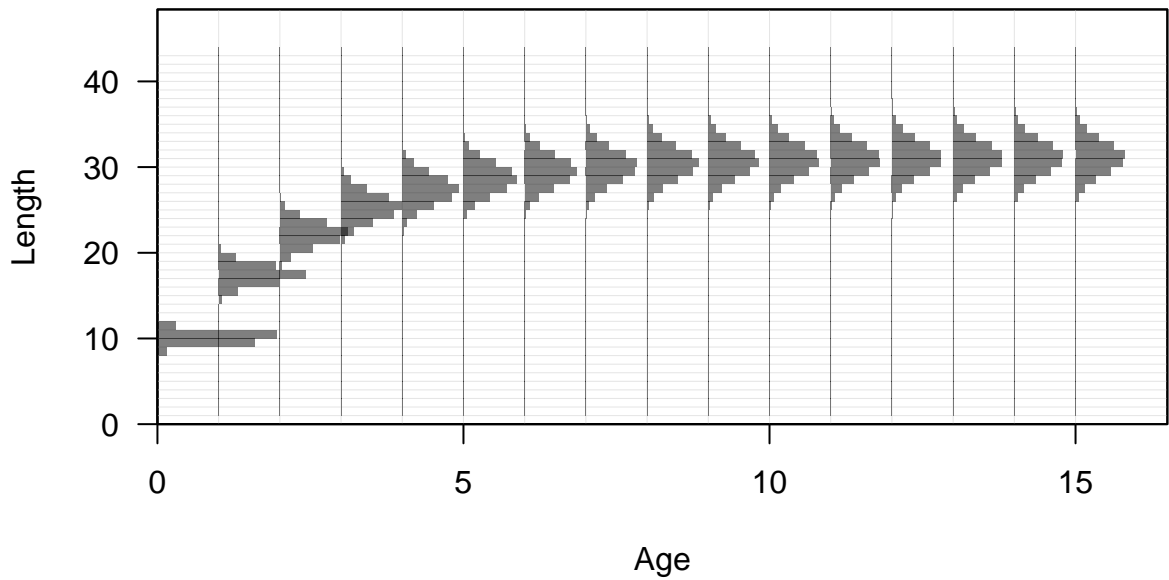


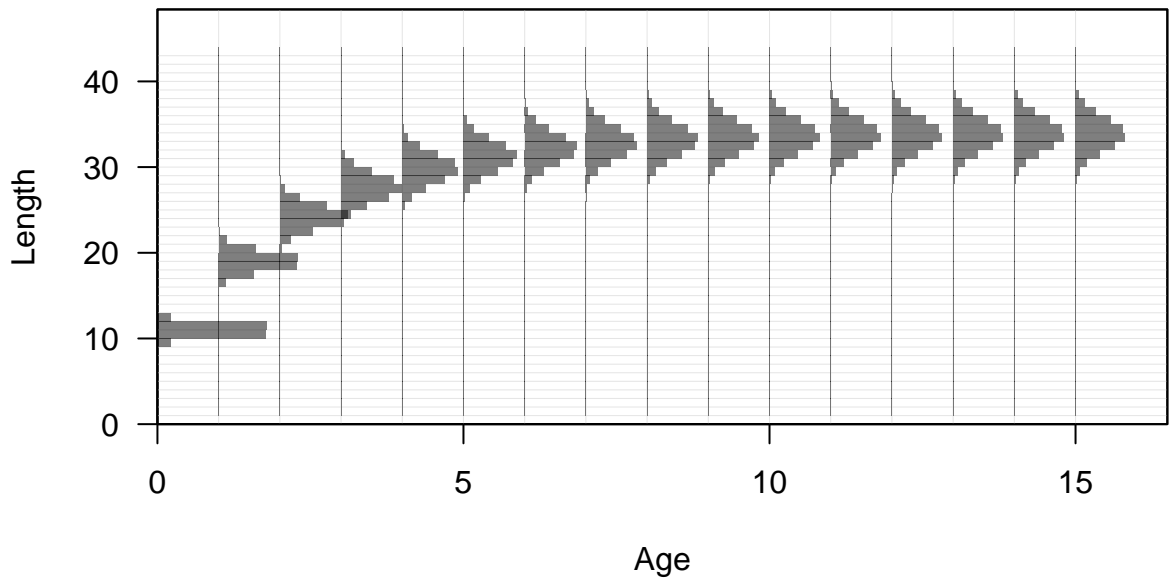


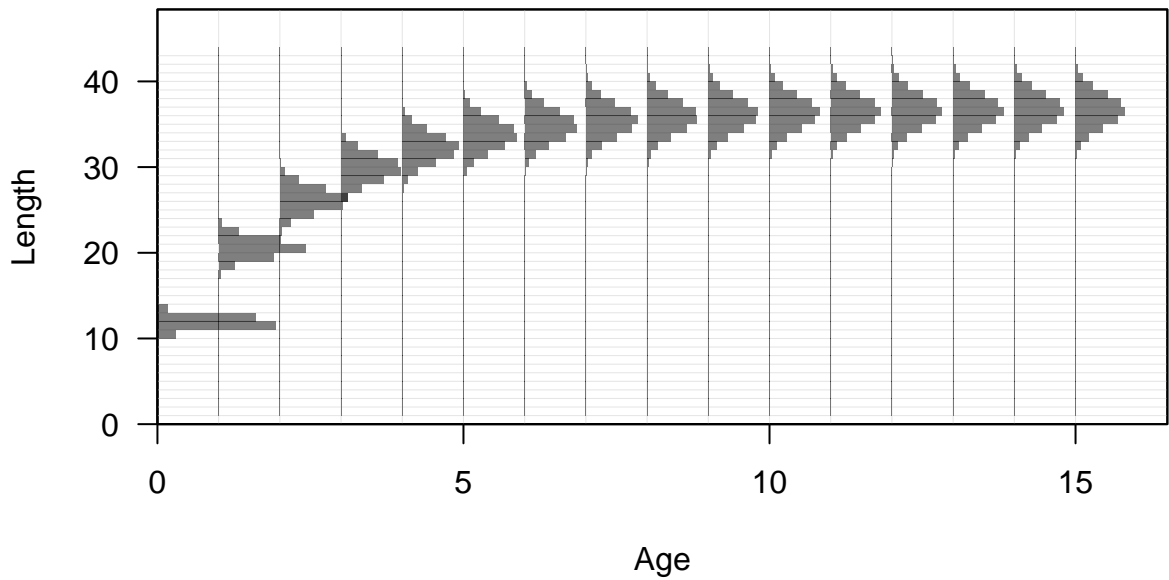




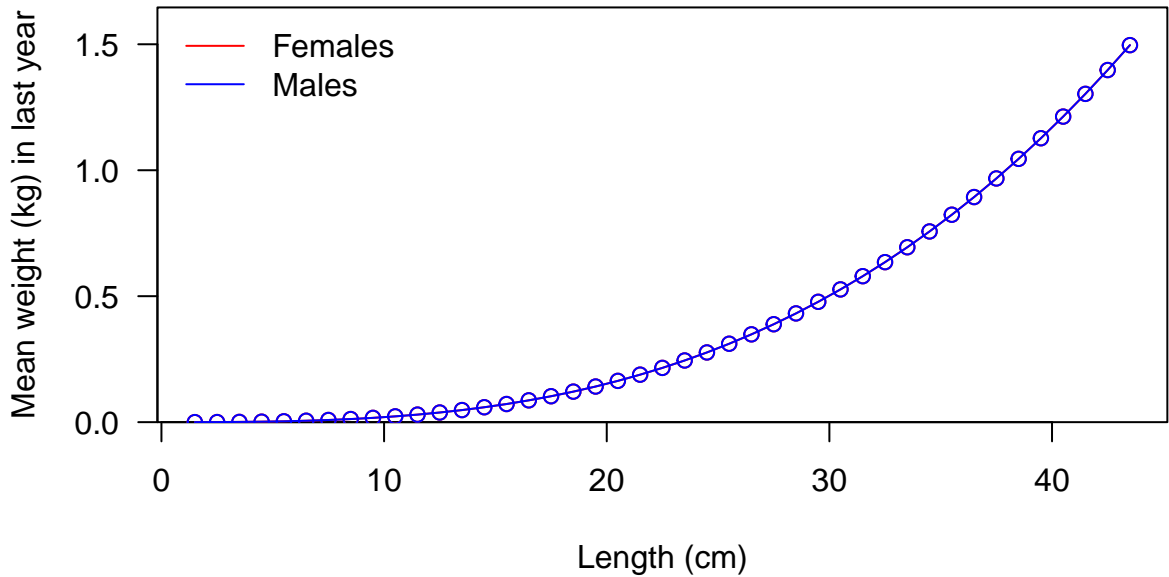


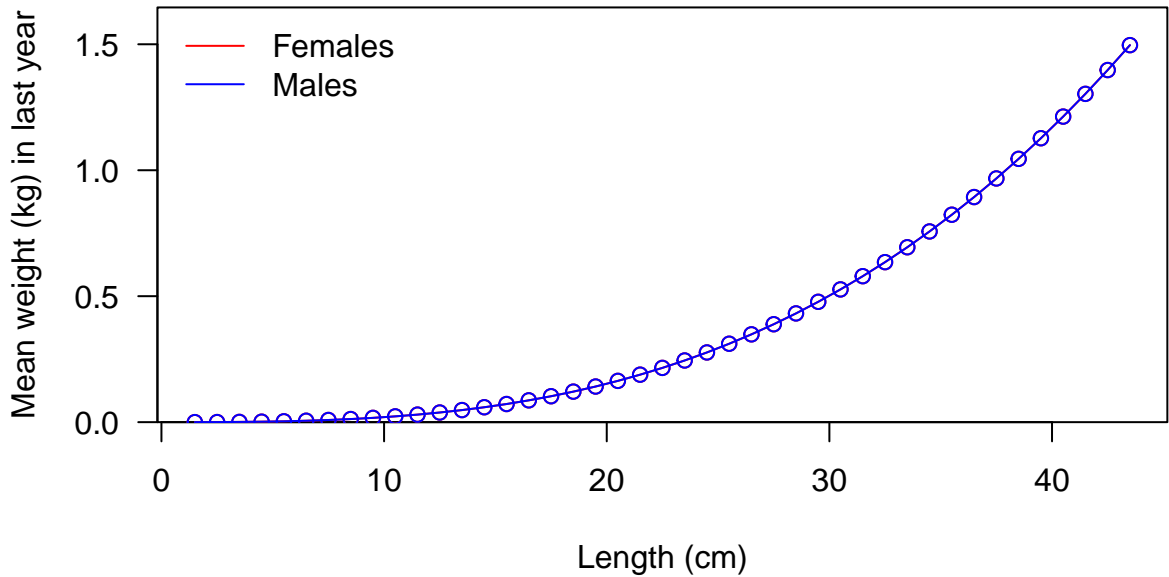


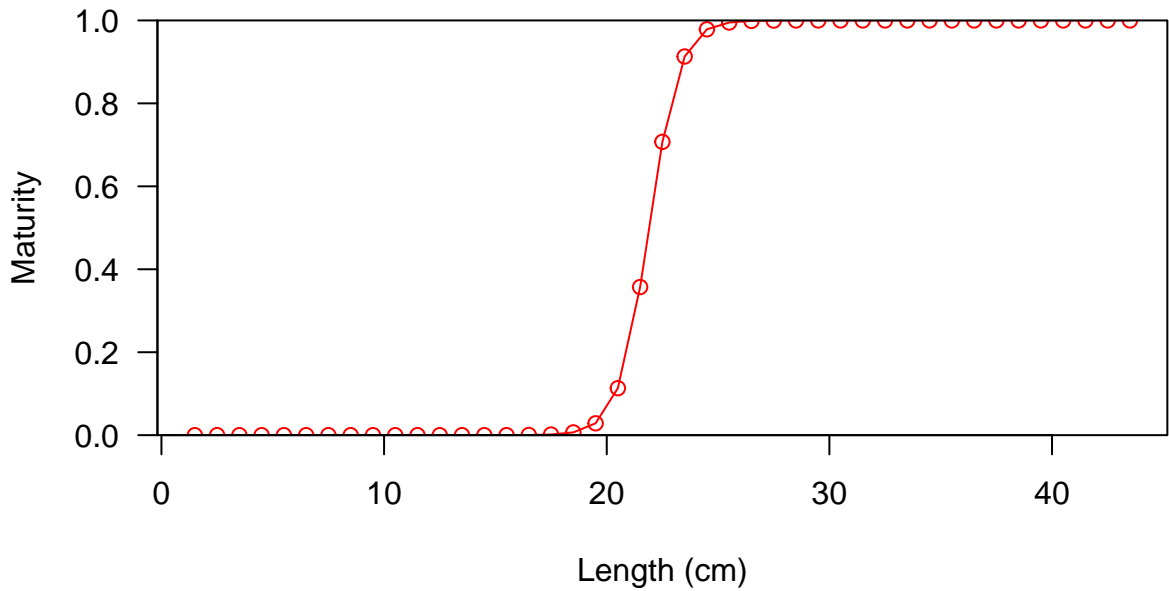


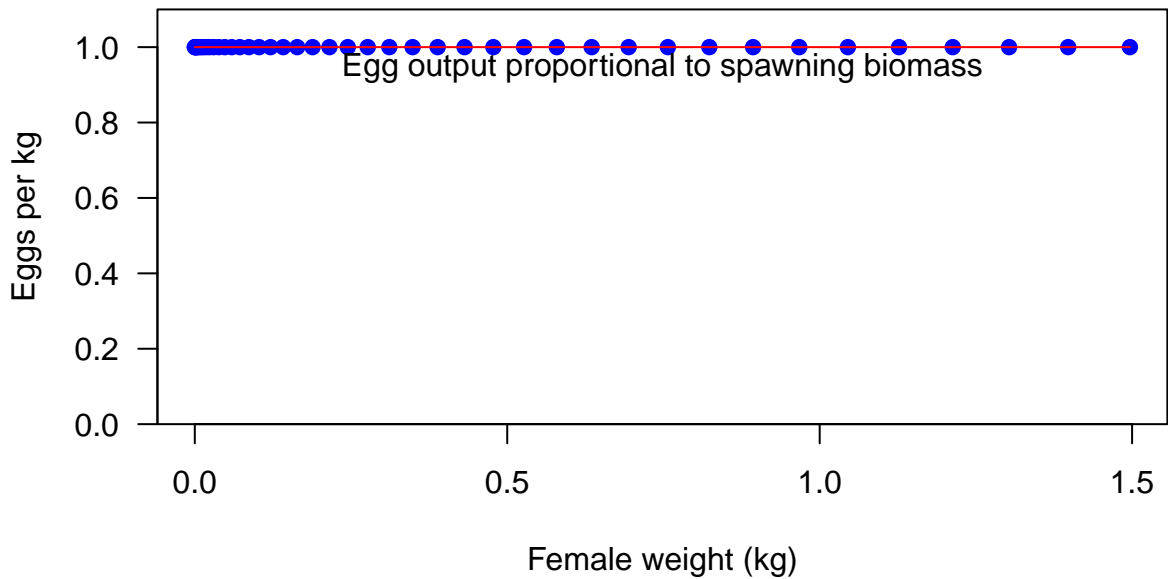


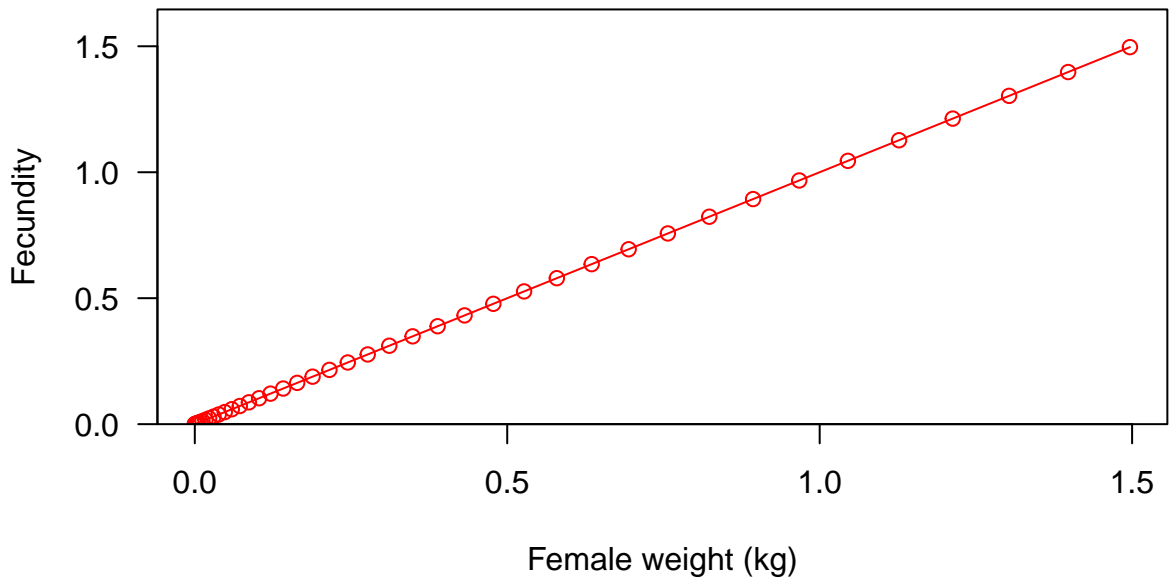


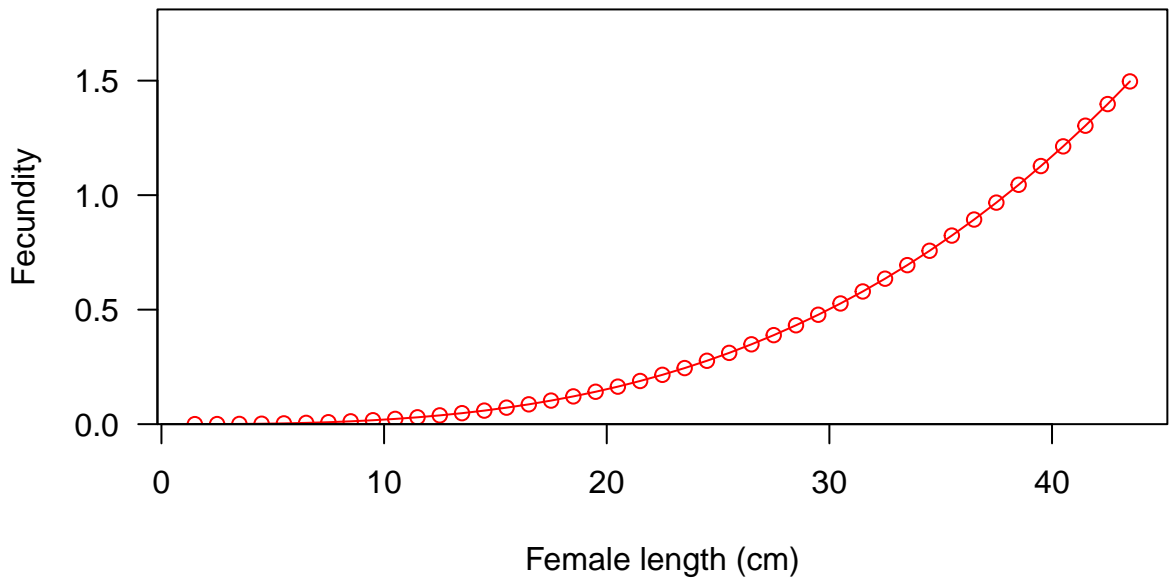


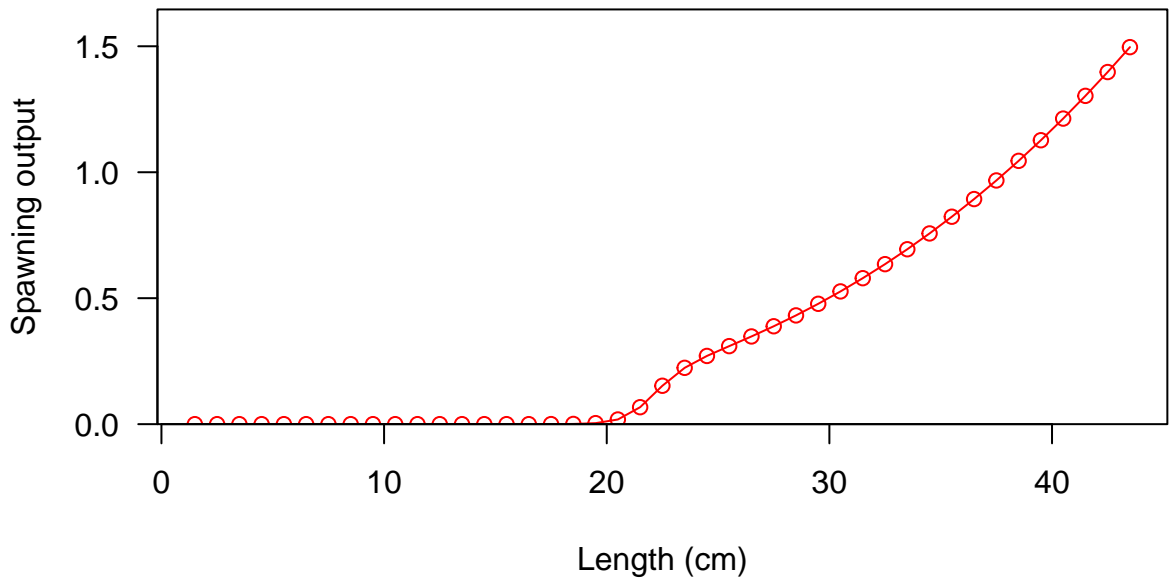


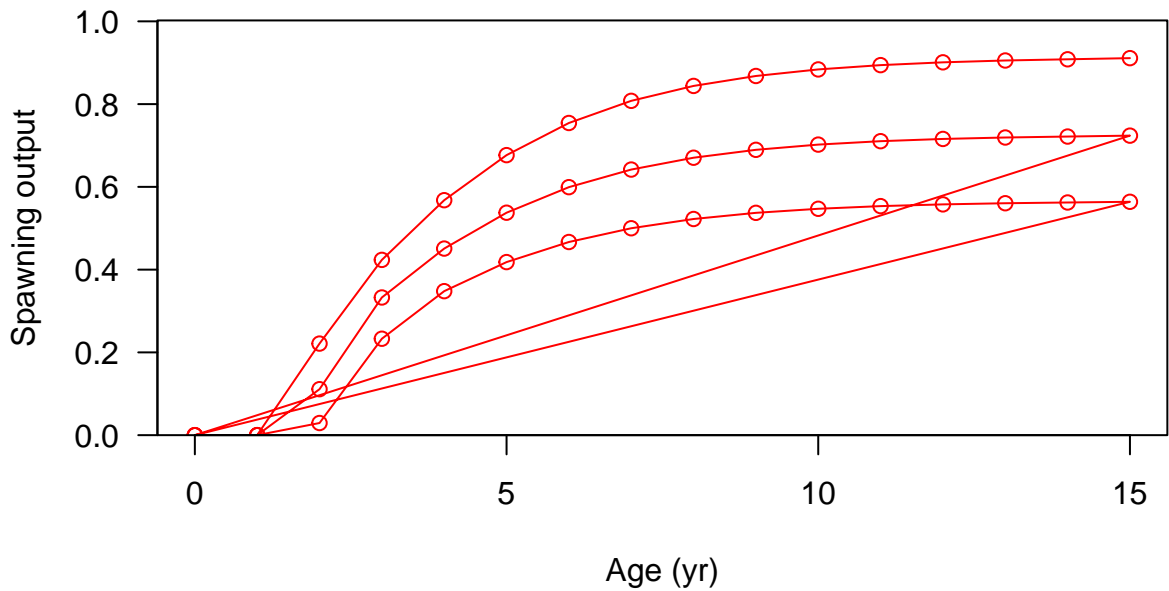






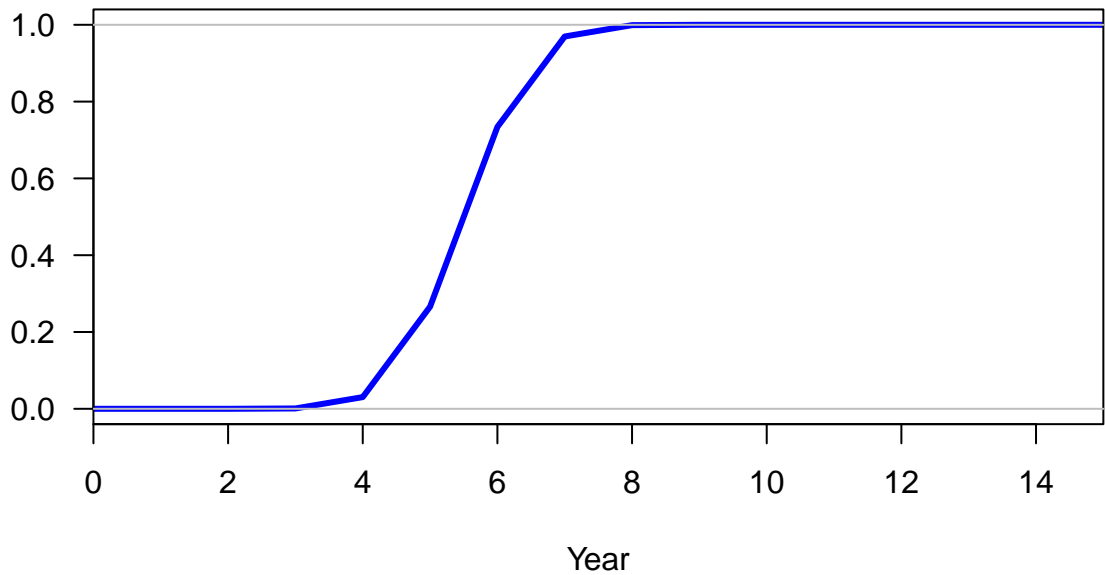




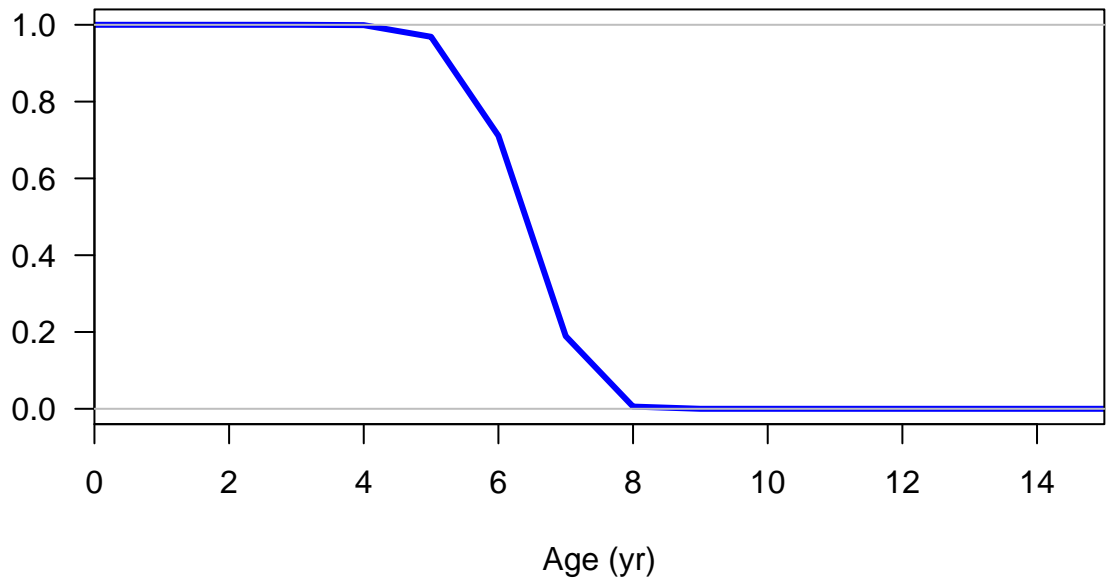




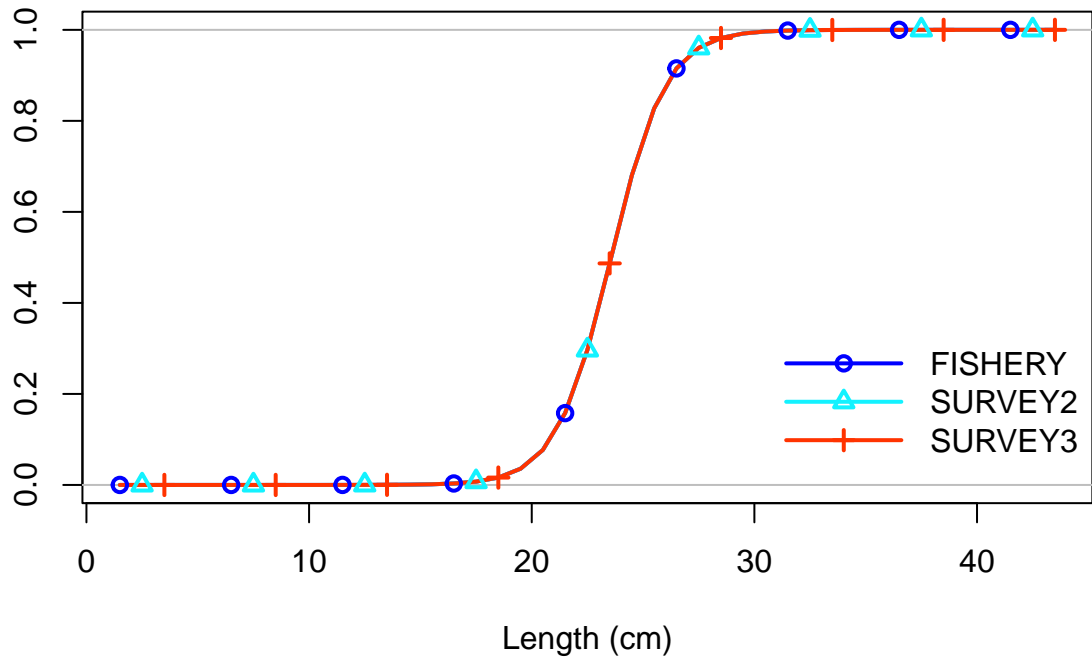
Hermaphroditism transition rate

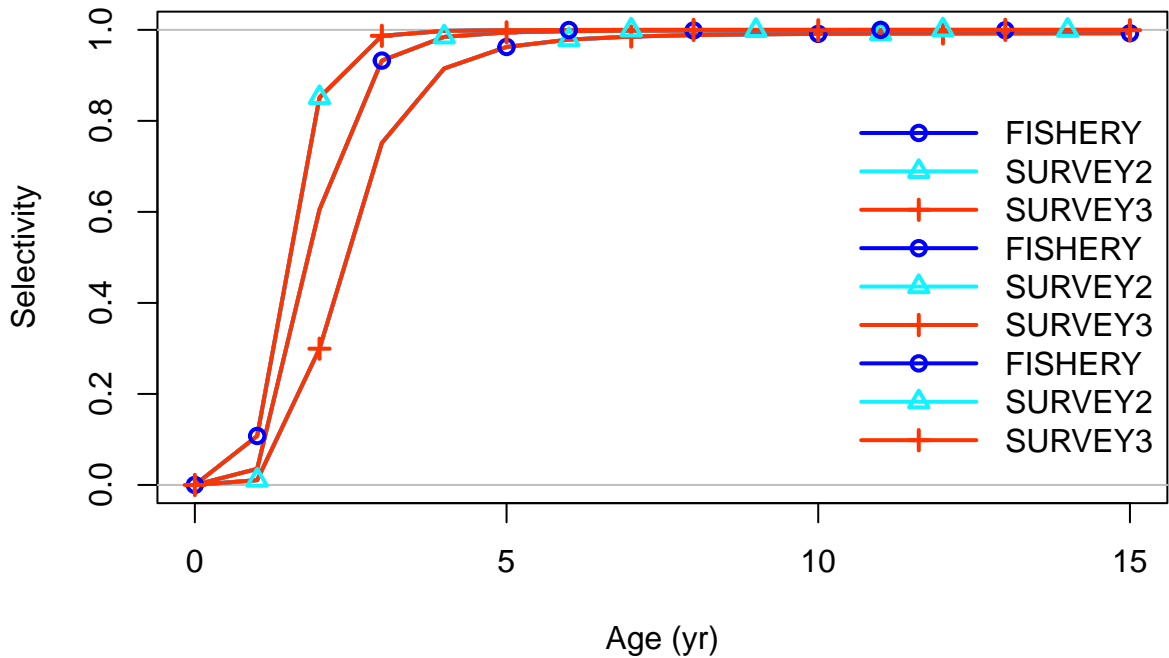


Fraction females by age at equilibrium

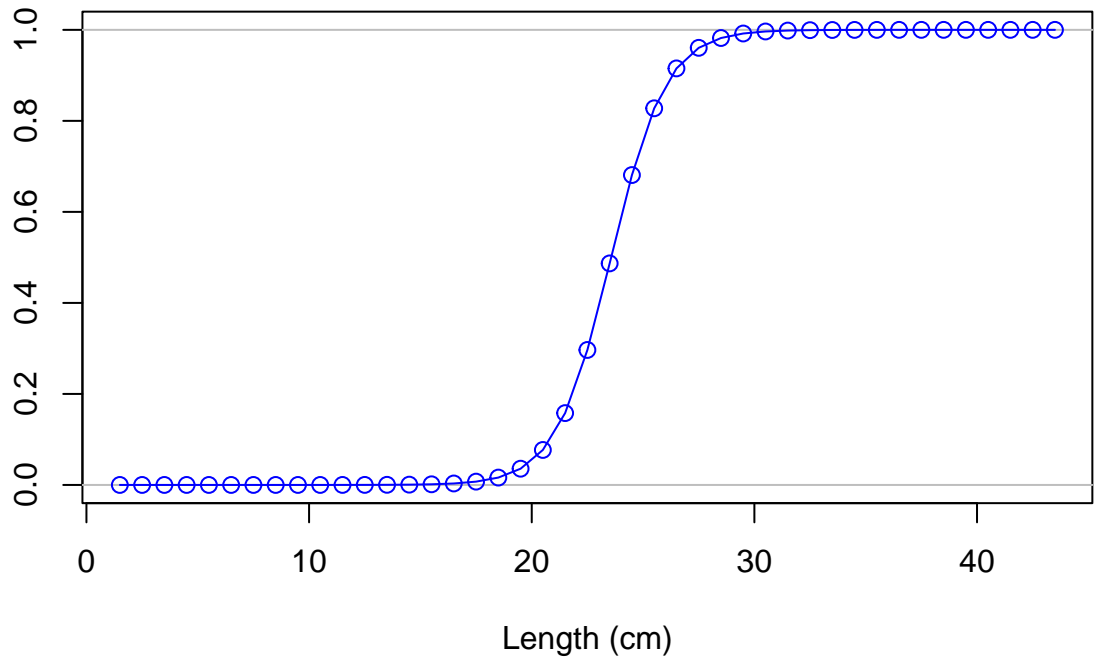


Selectivity

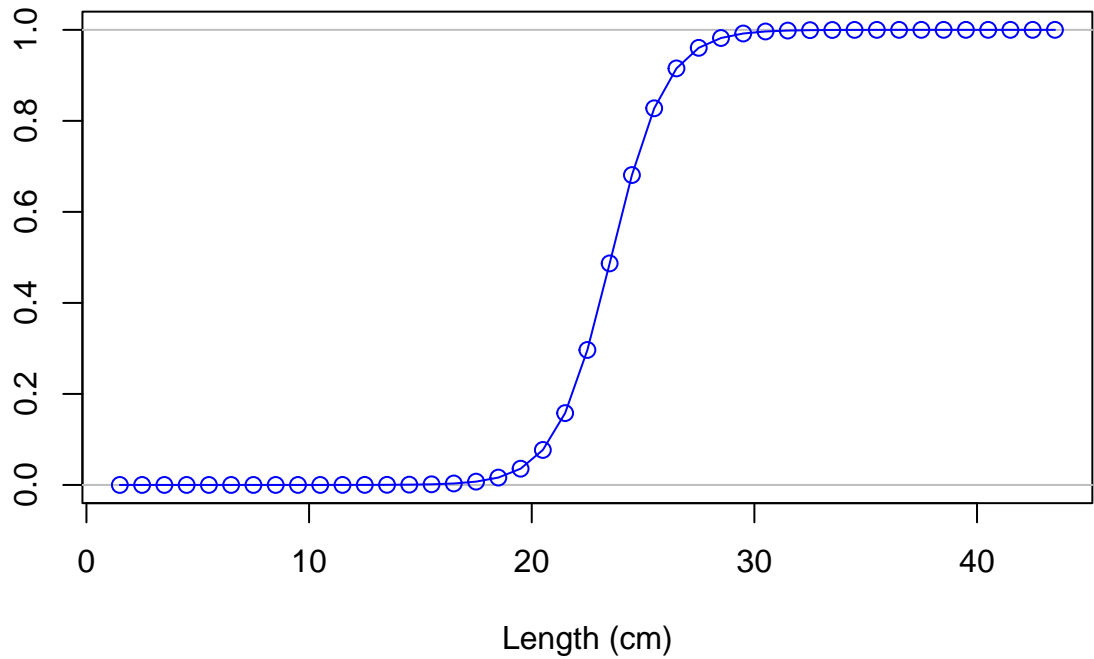




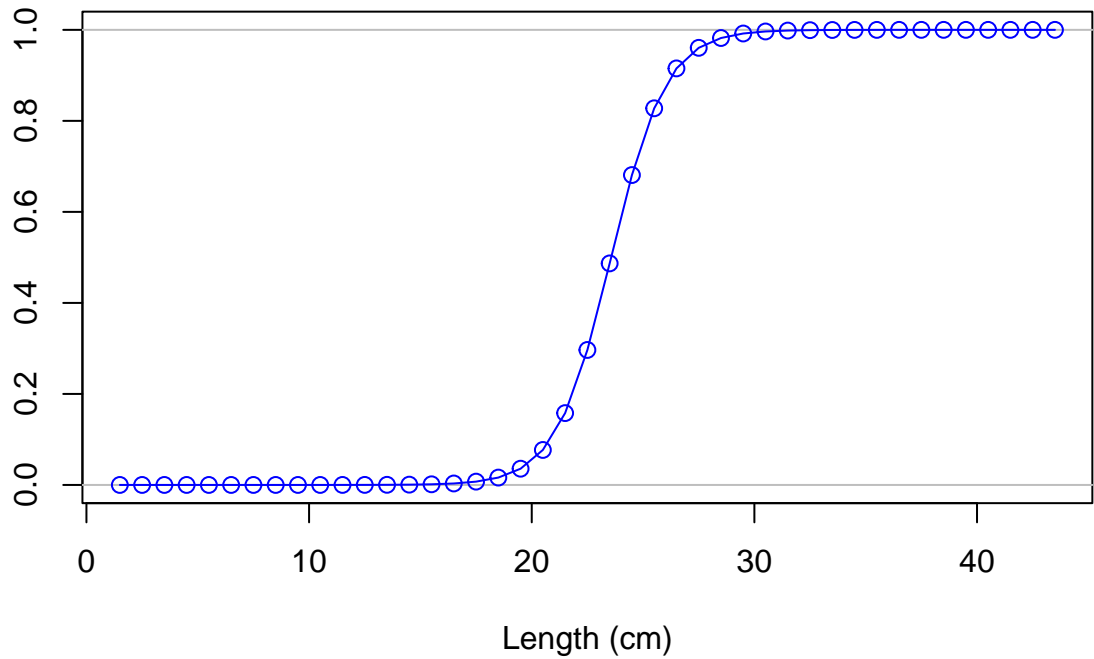
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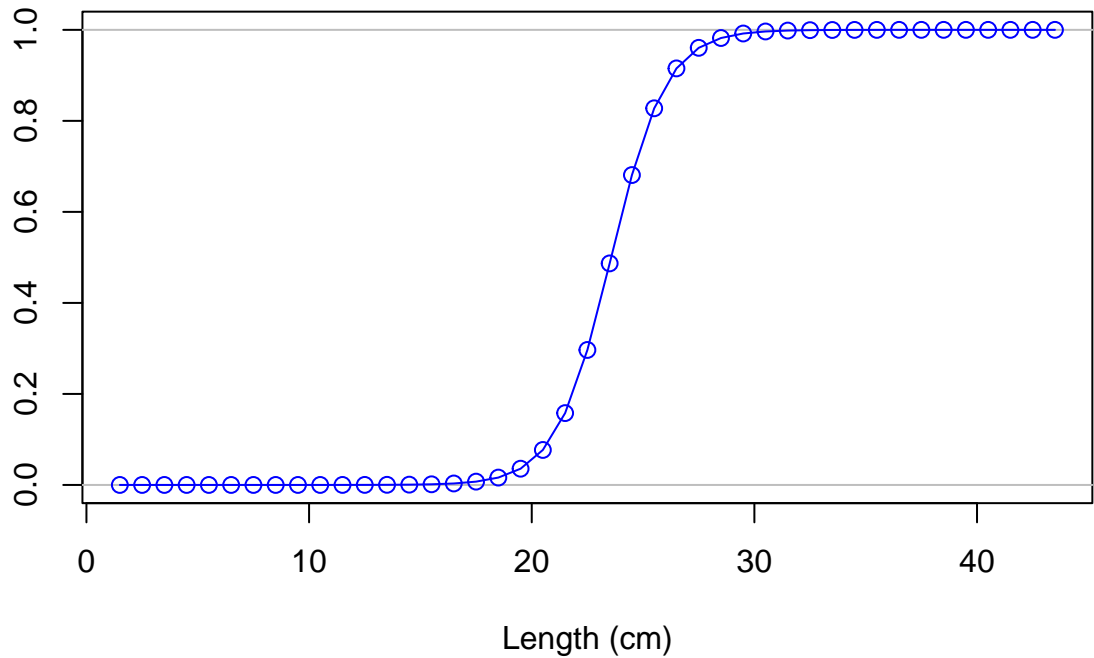
Selectivity



Selectivity

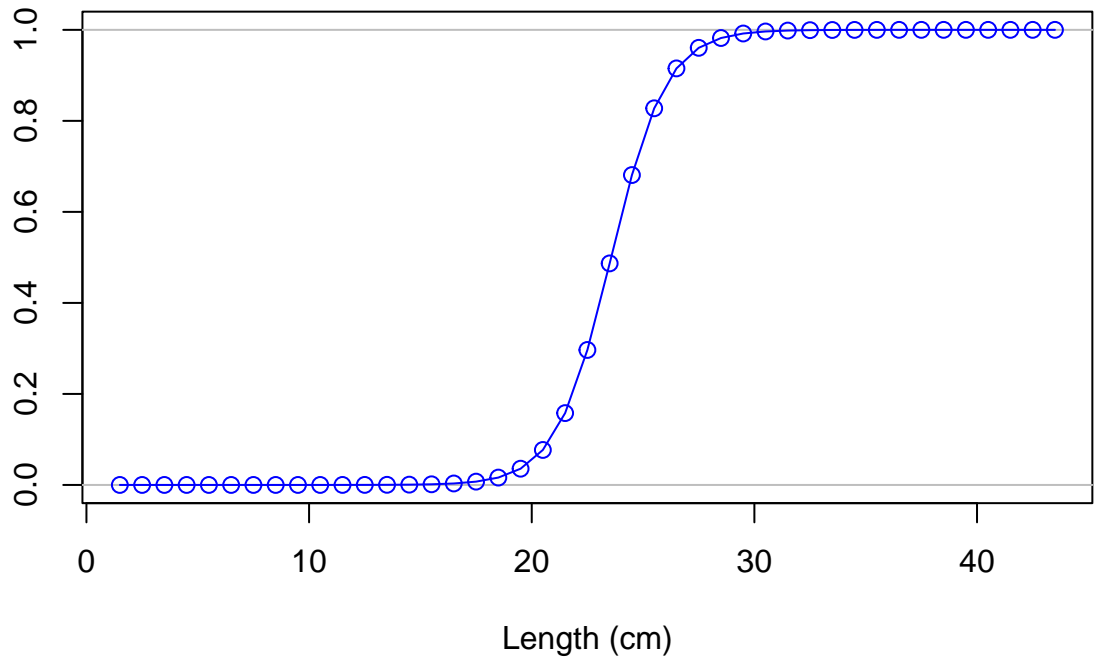


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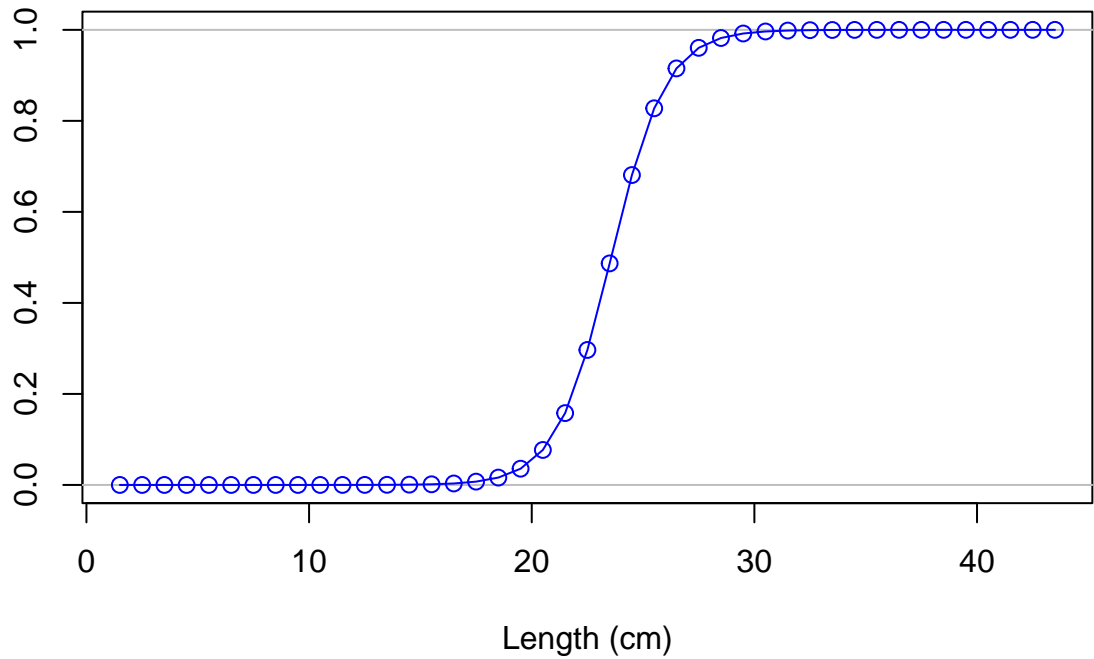


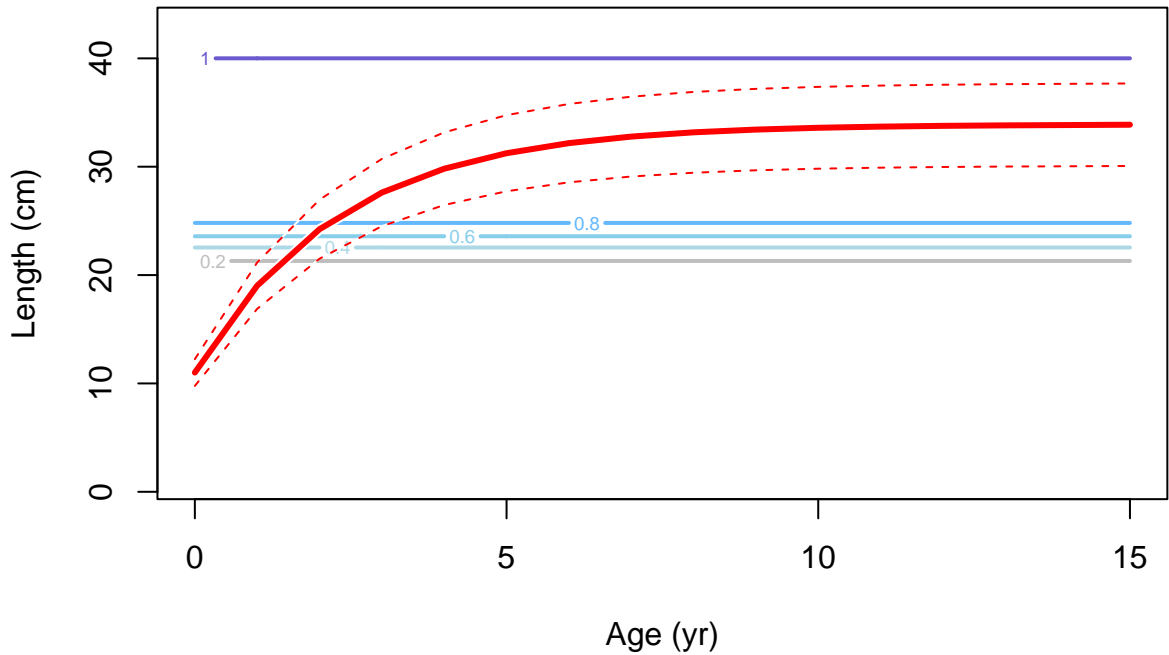


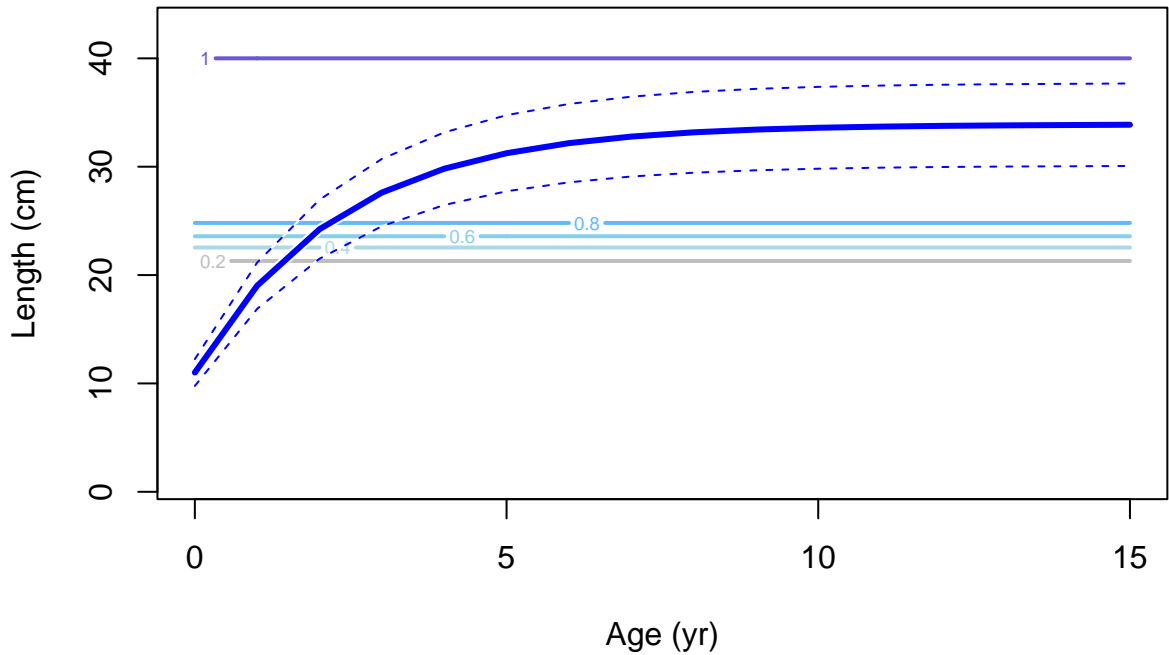
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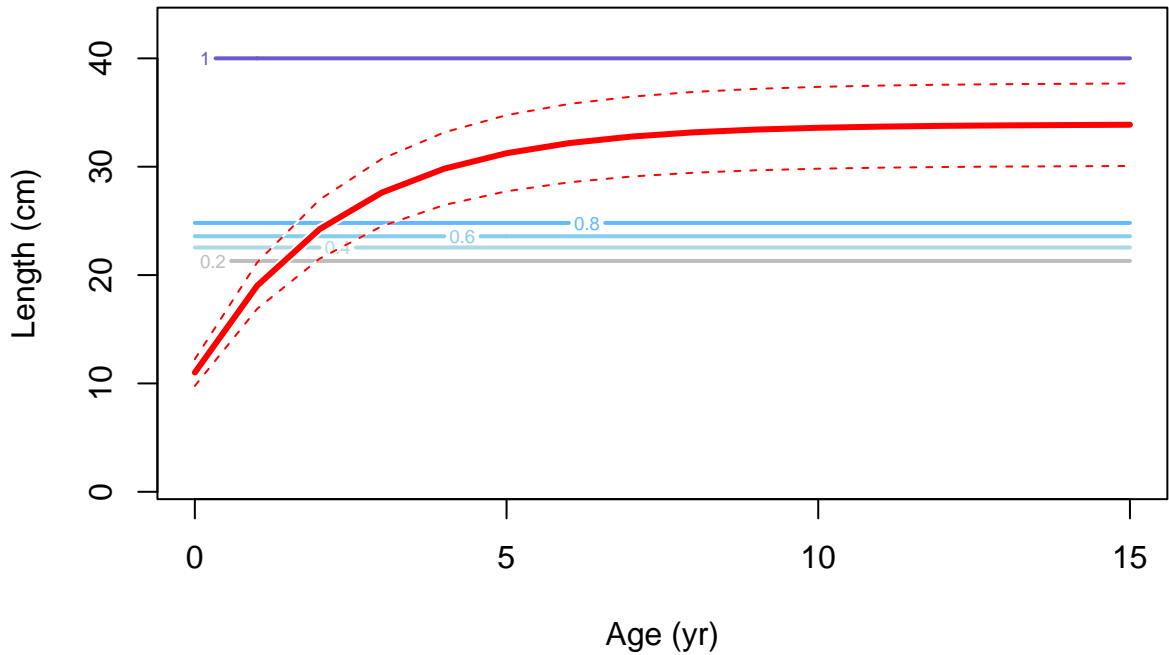


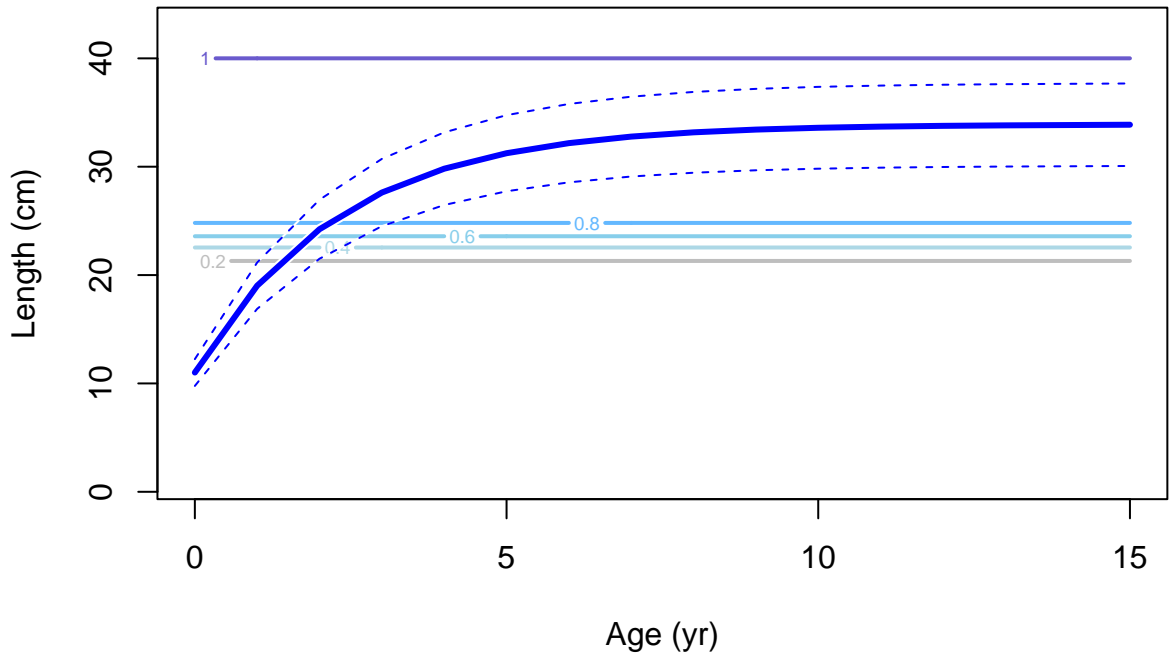
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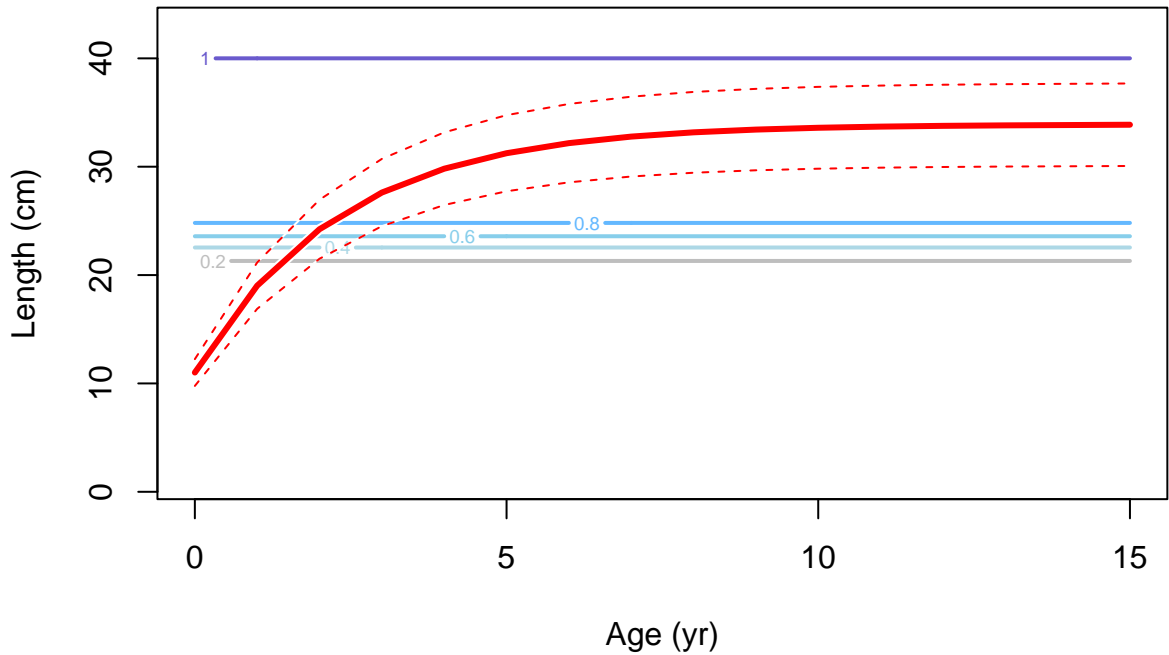


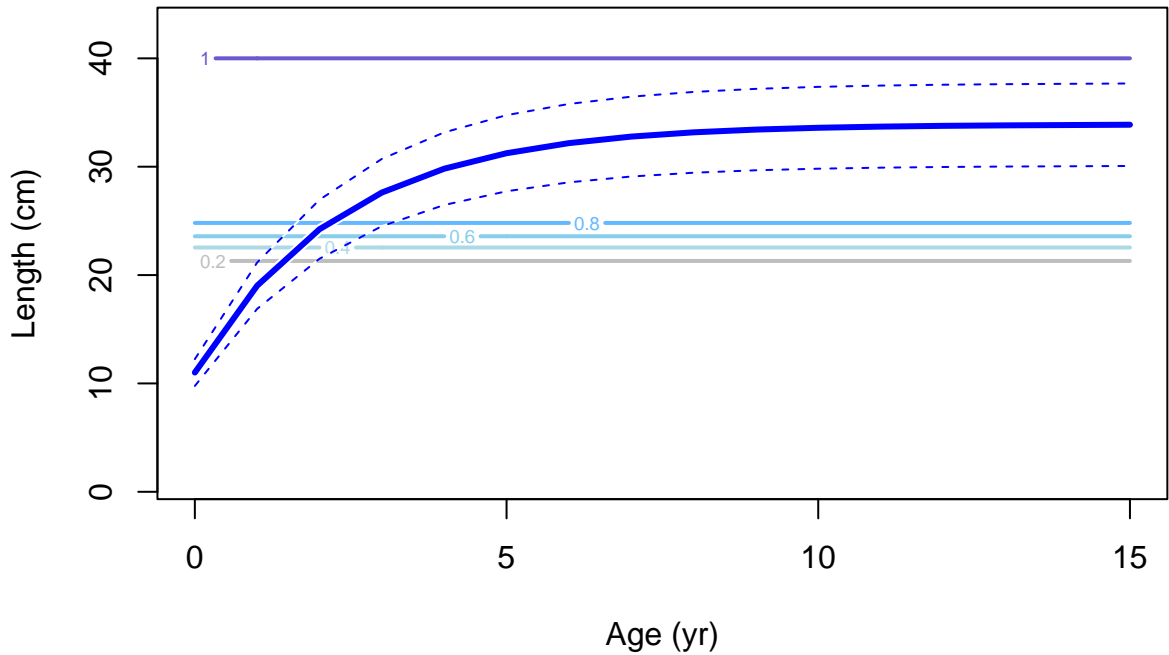




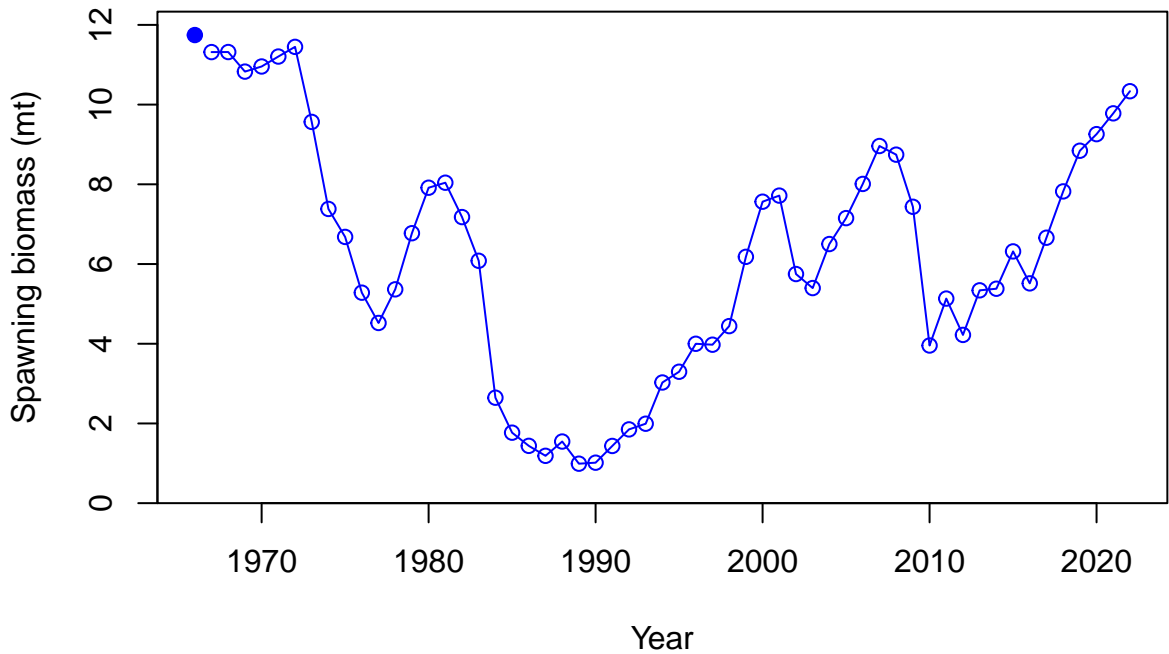




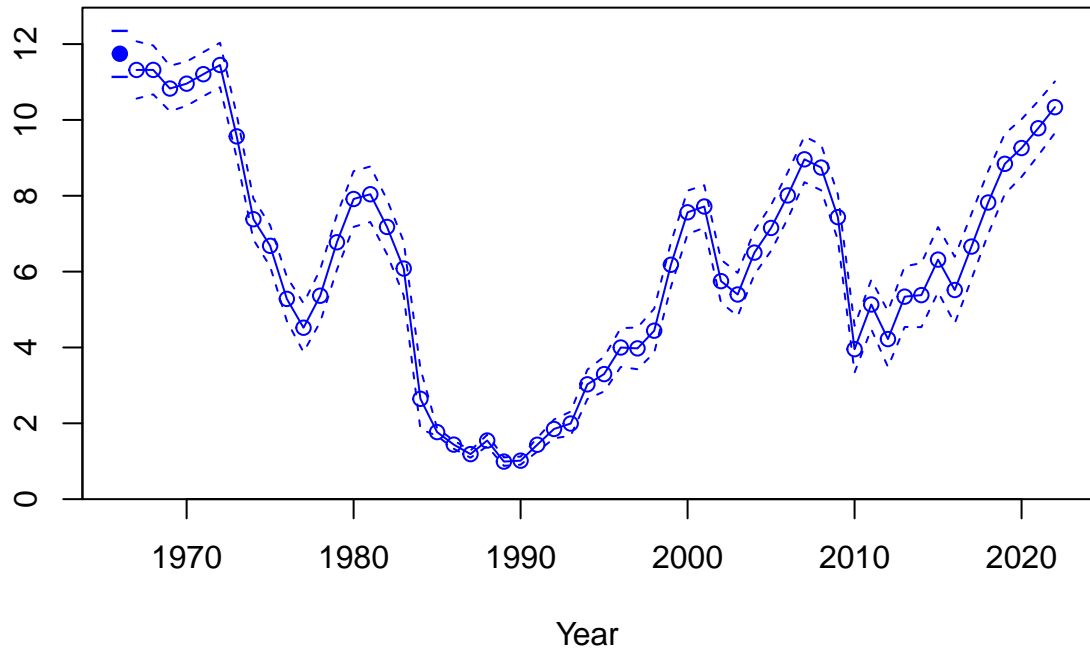




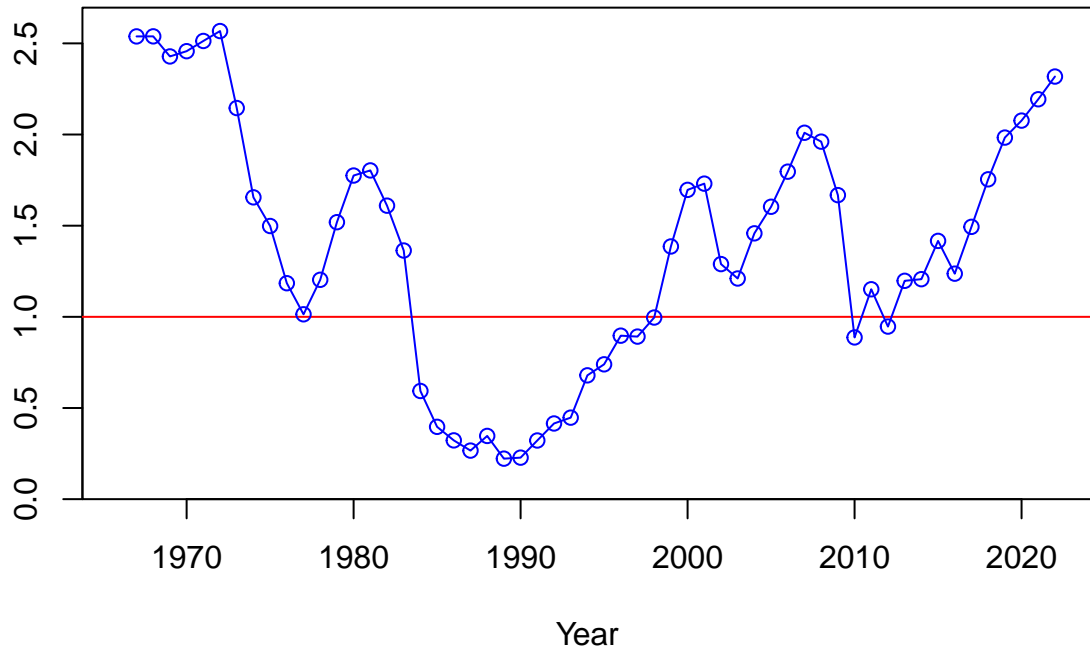




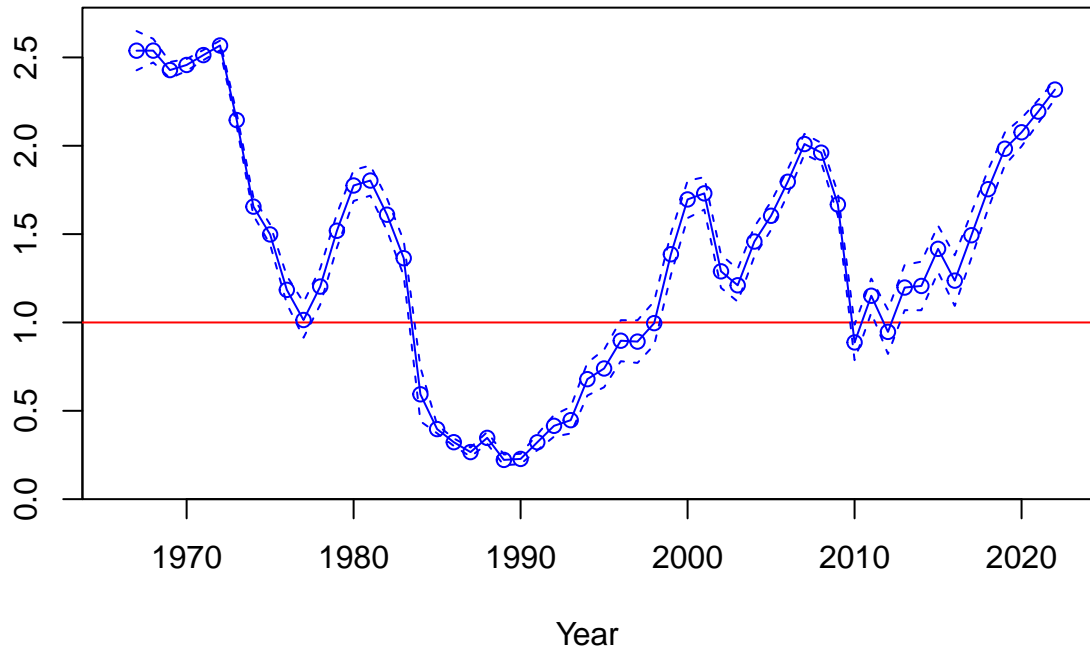
Spawning biomass (mt)

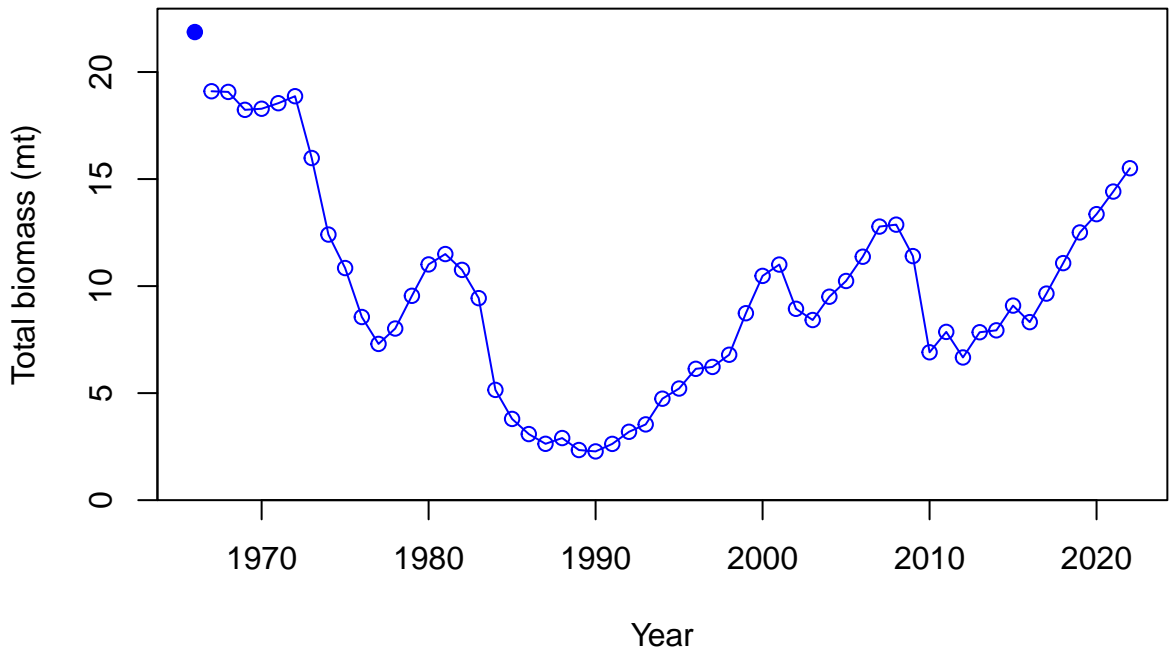


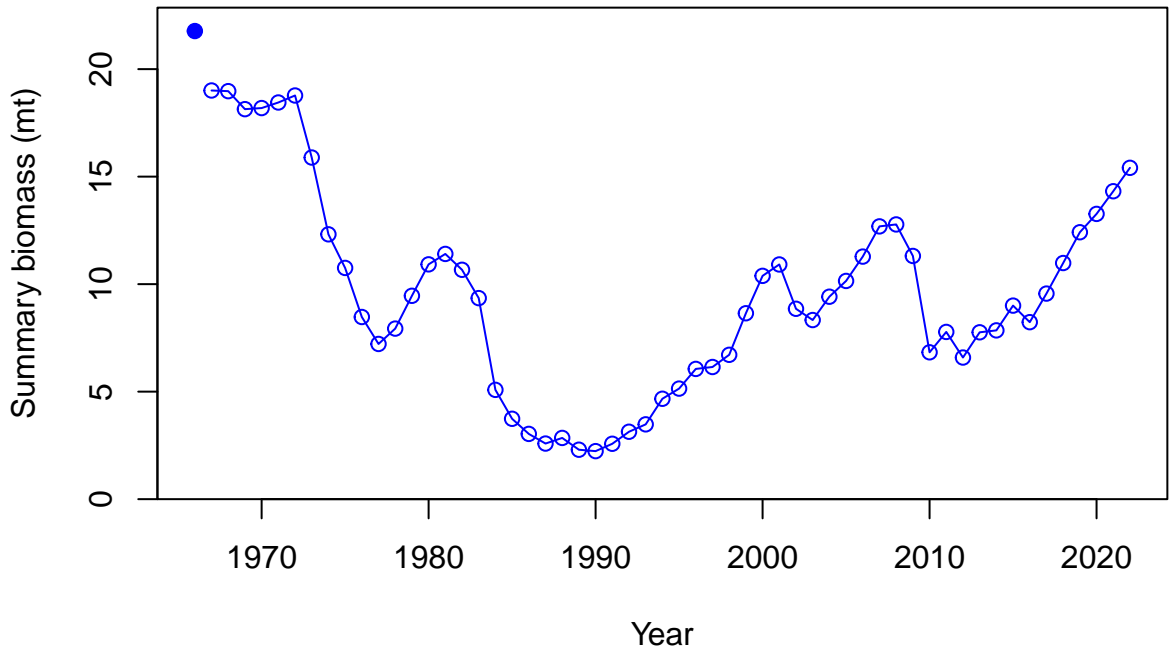
Relative spawning biomass:  $B/B_{MSY}$

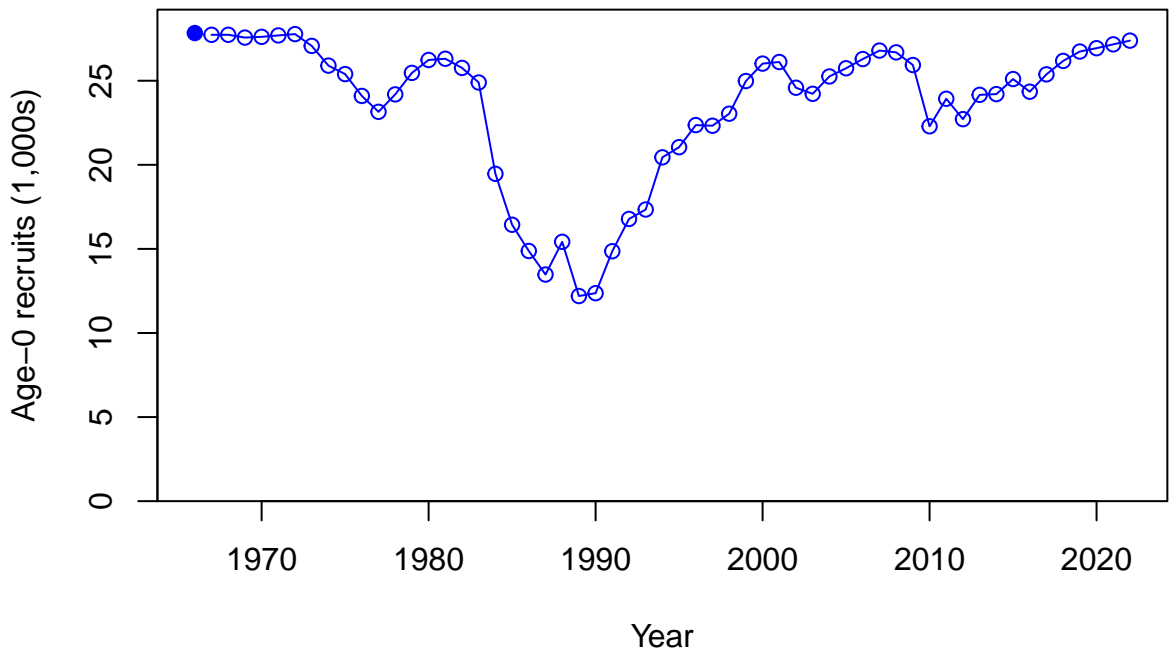


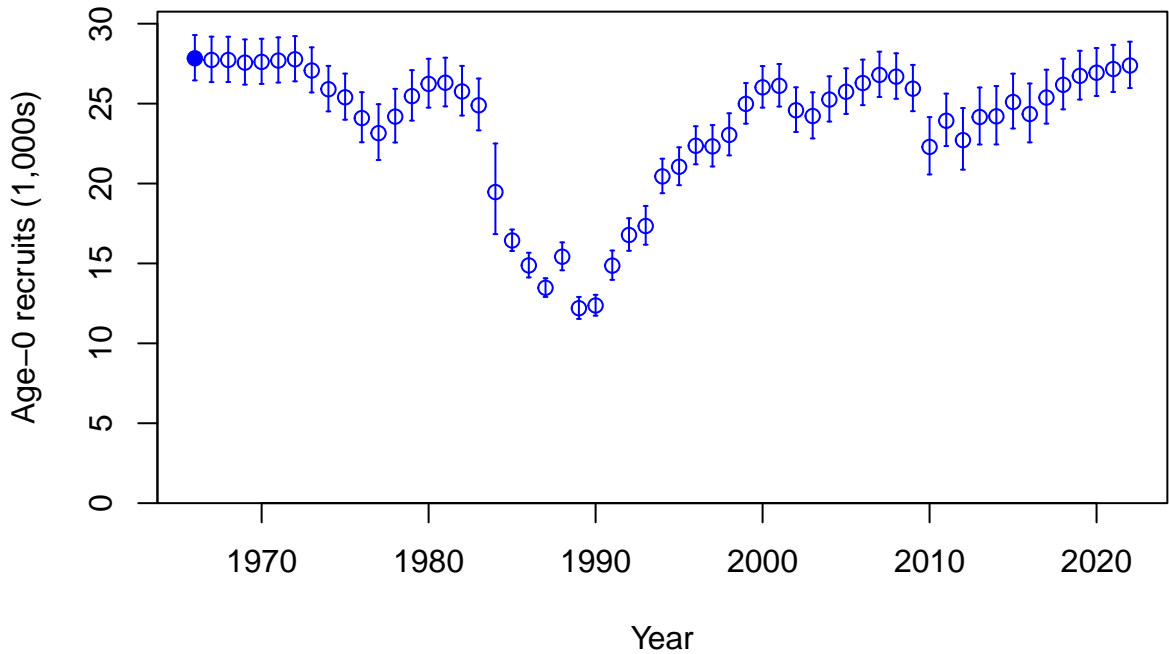
Relative spawning biomass:  $B/B_{MSY}$





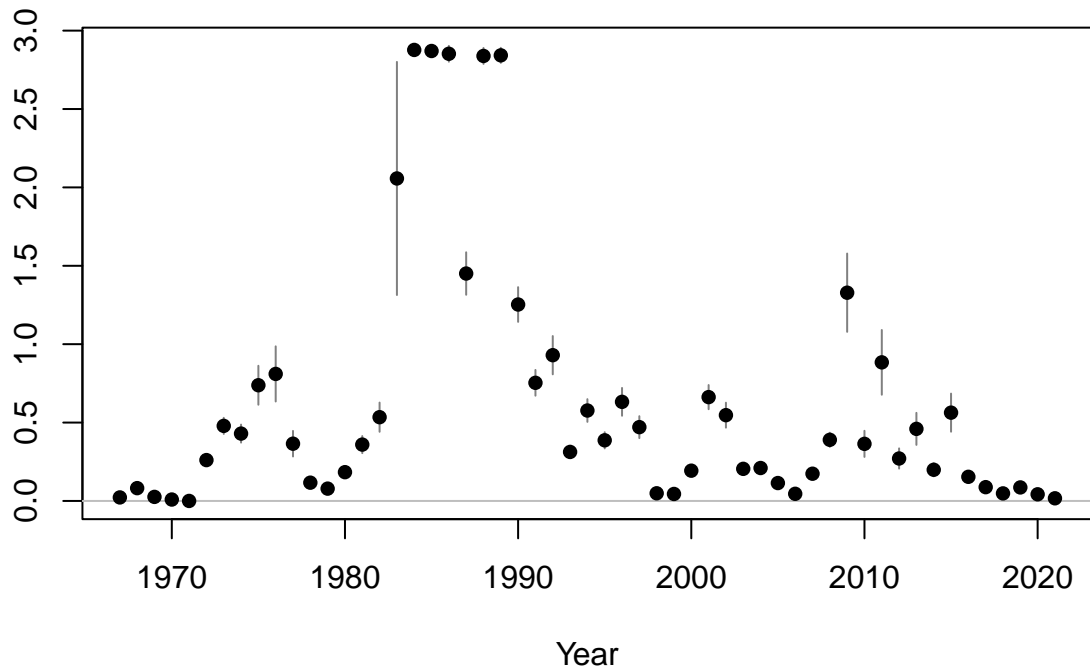


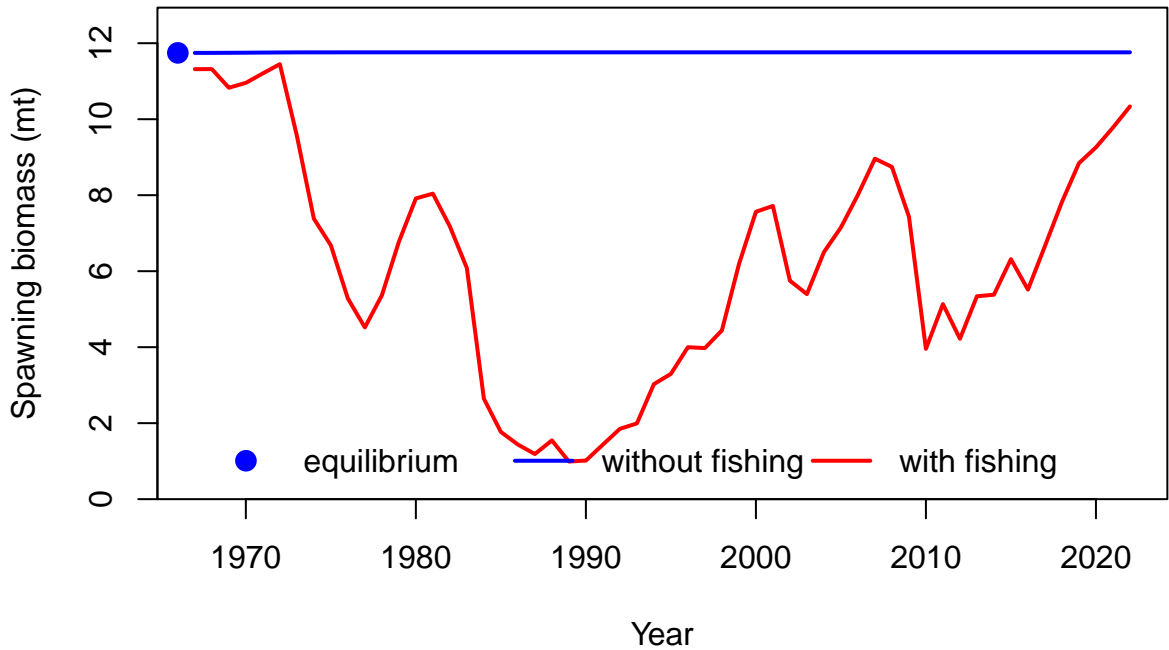




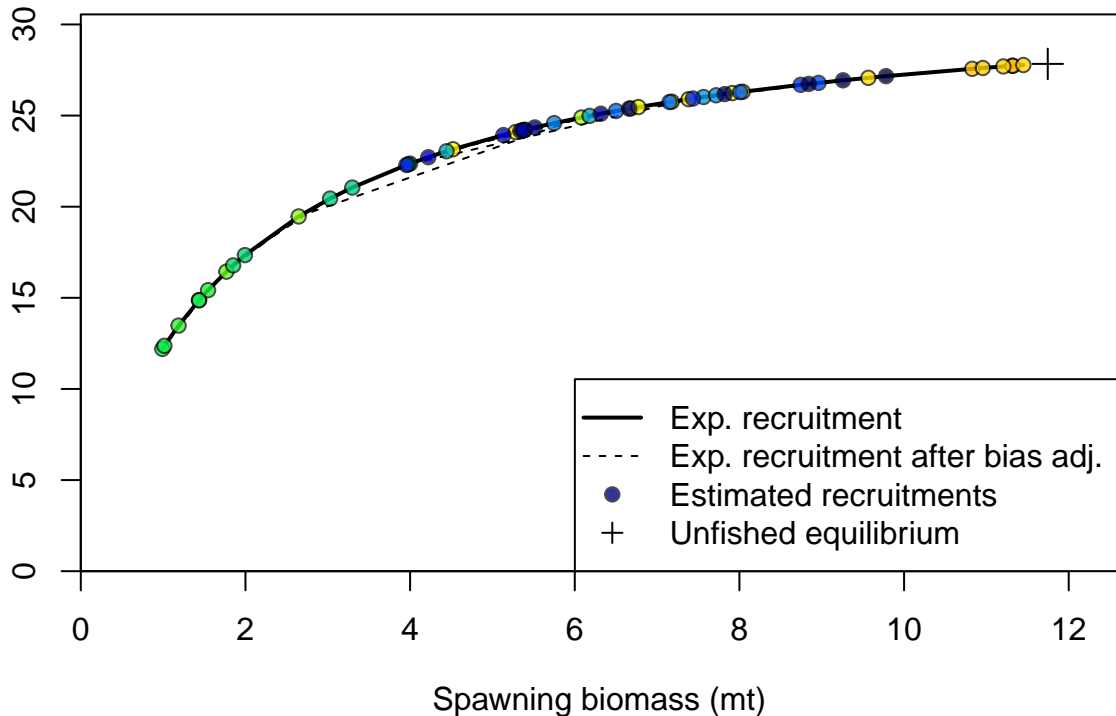


Summary Fishing Mortality

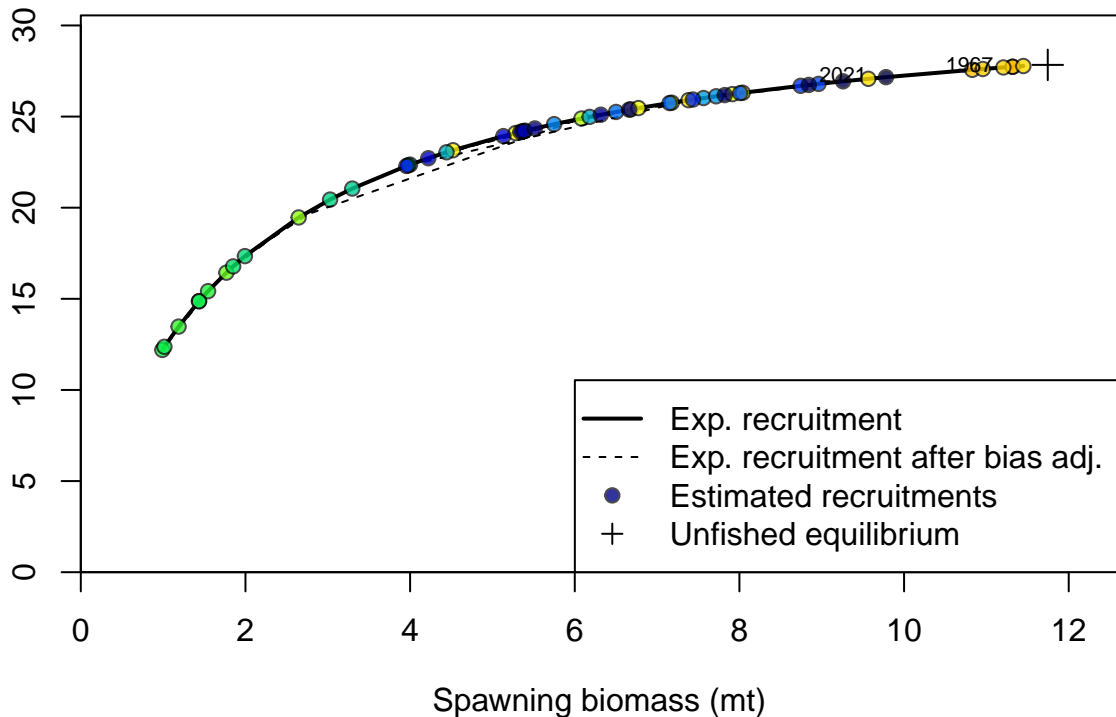


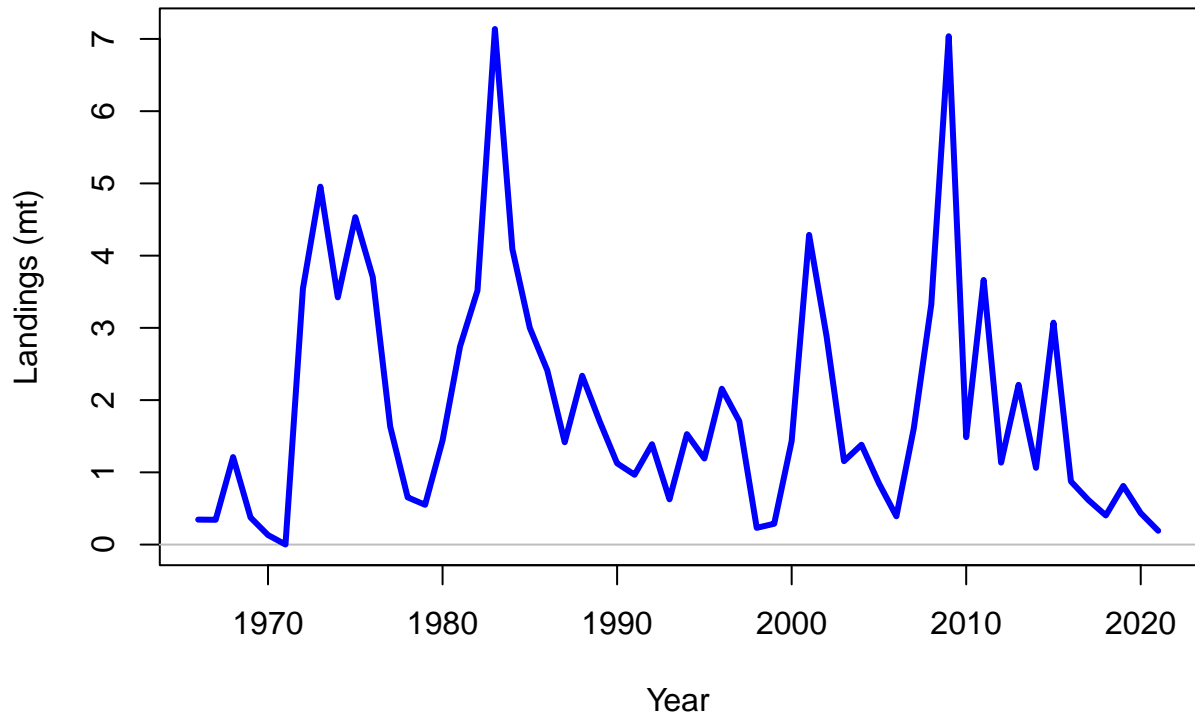


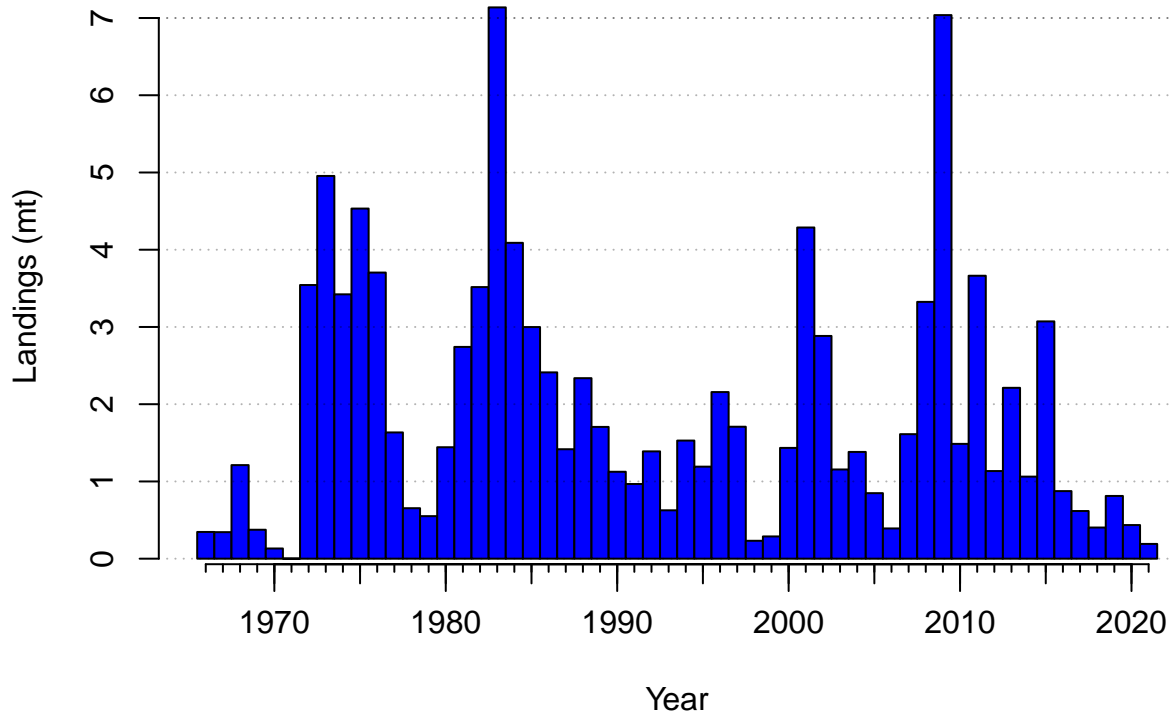
Recruitment (1,000s)



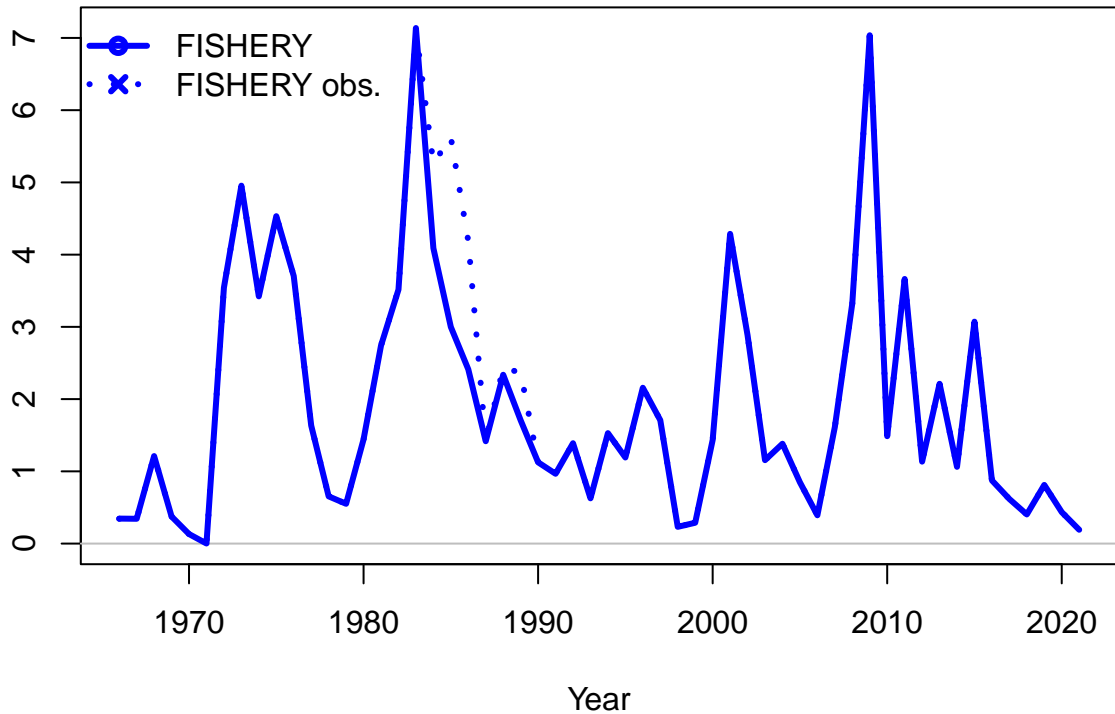
Recruitment (1,000s)

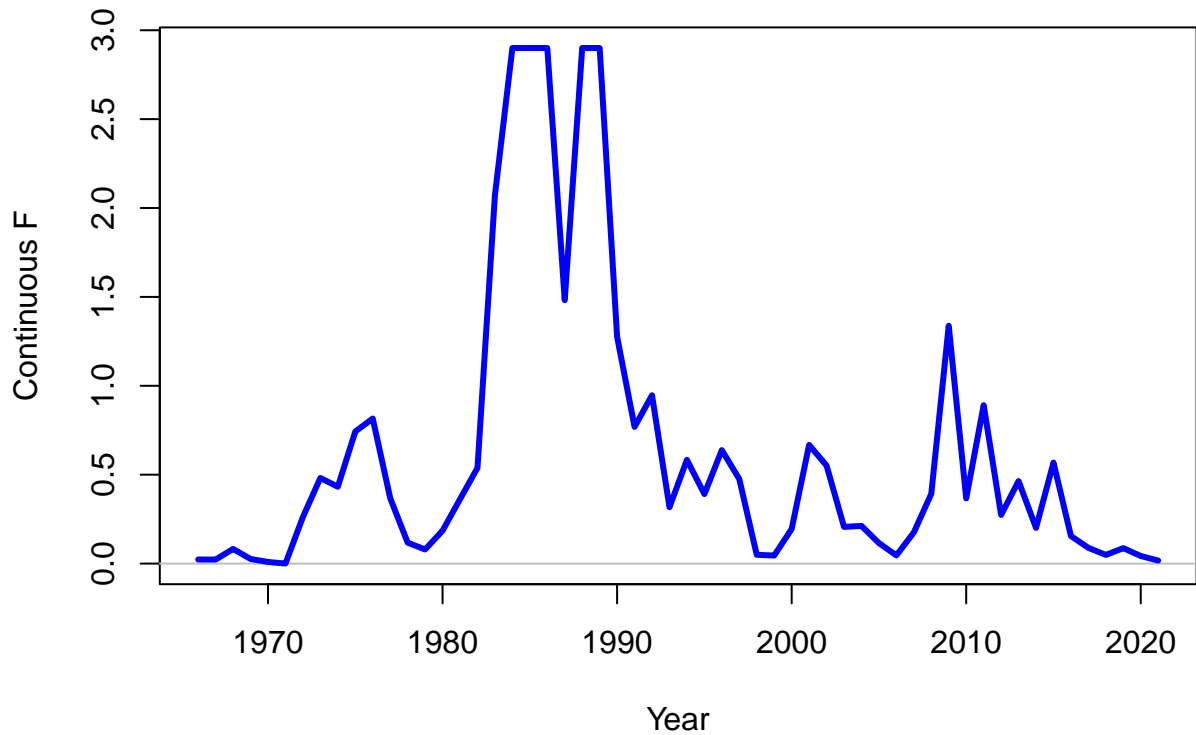






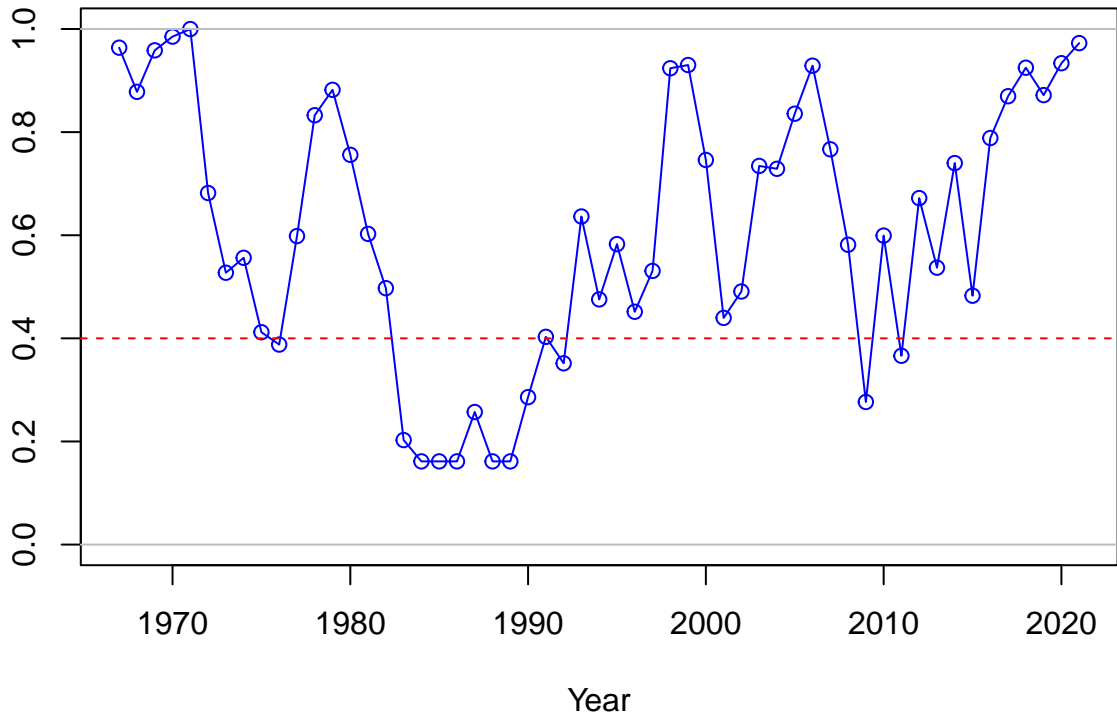
Observed and expected Landings (mt)

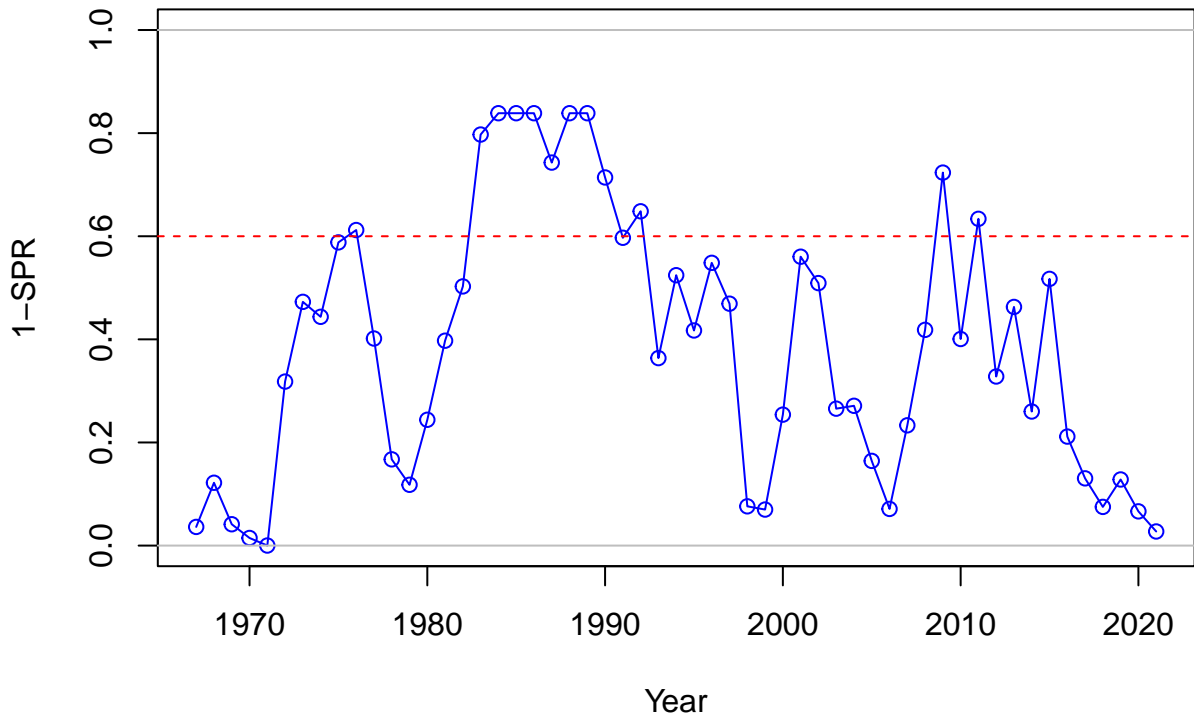




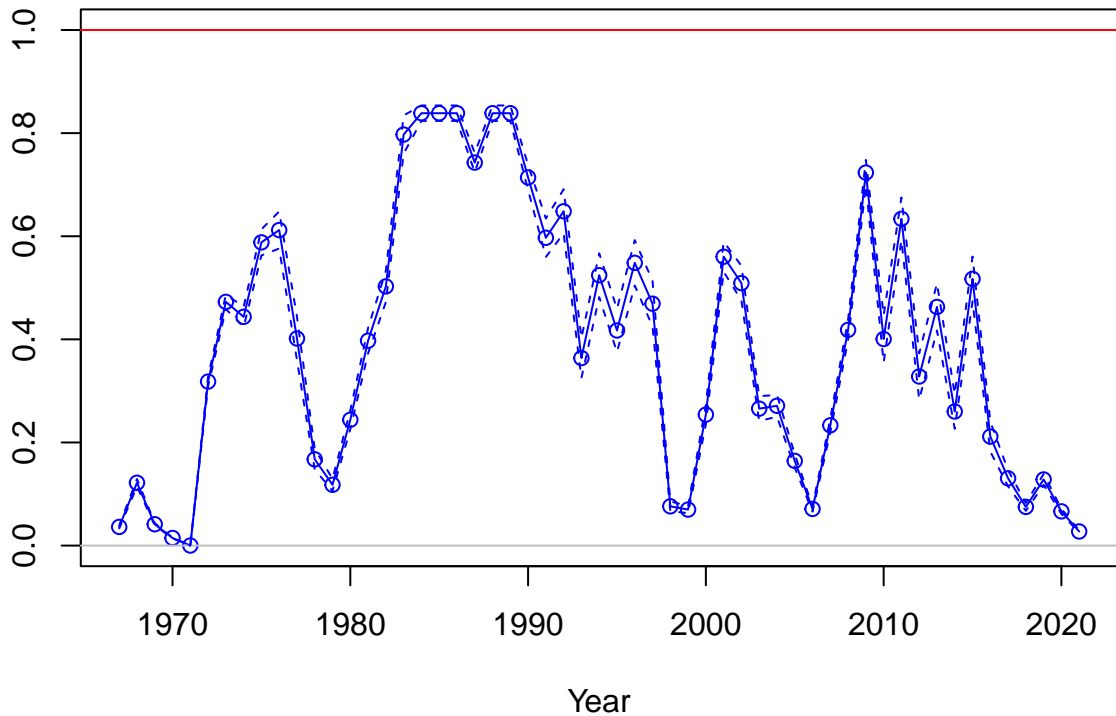


SPR

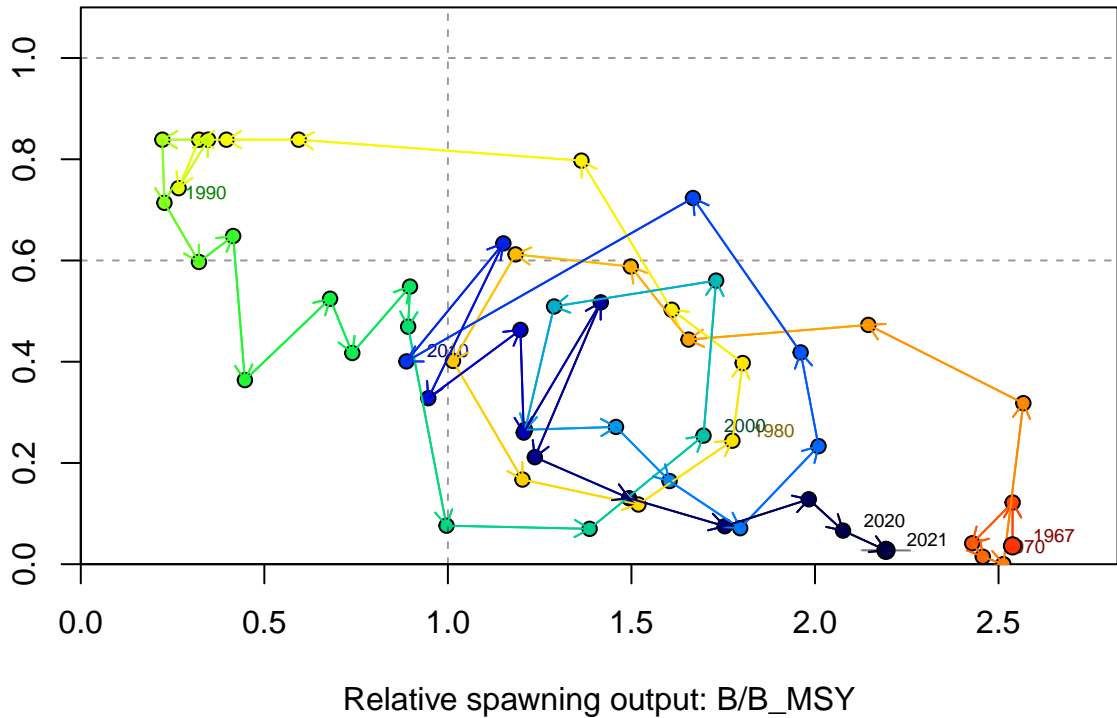


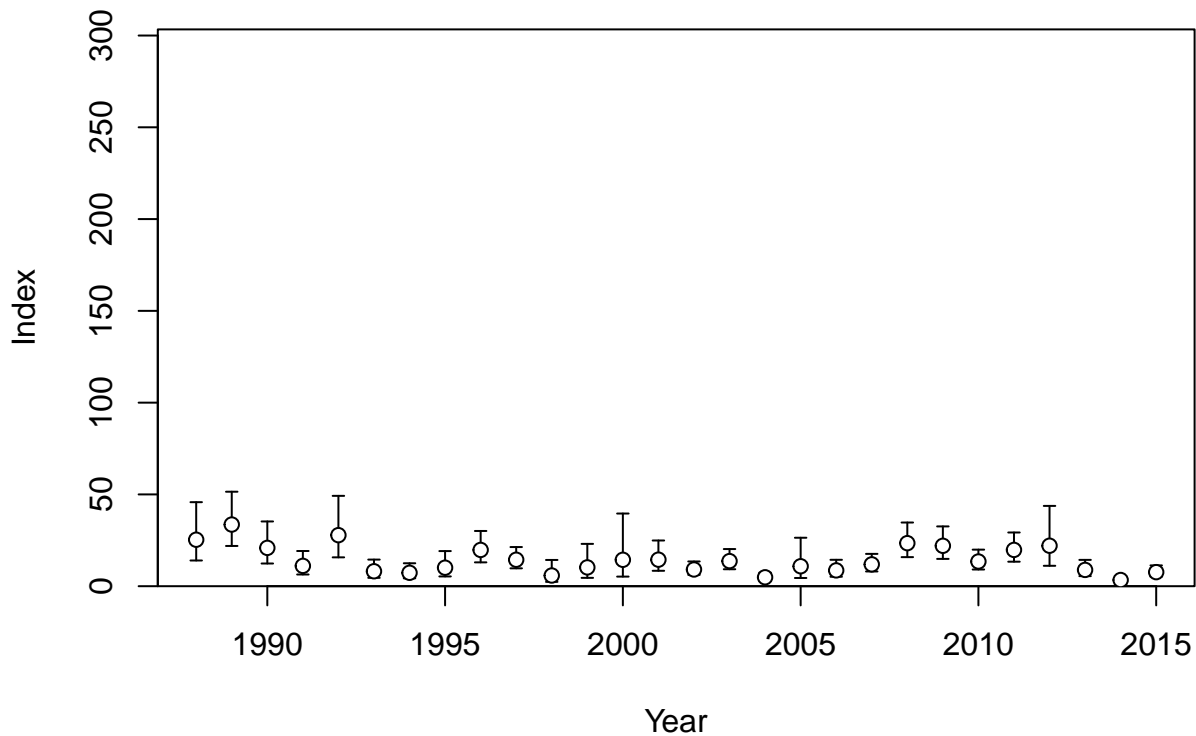


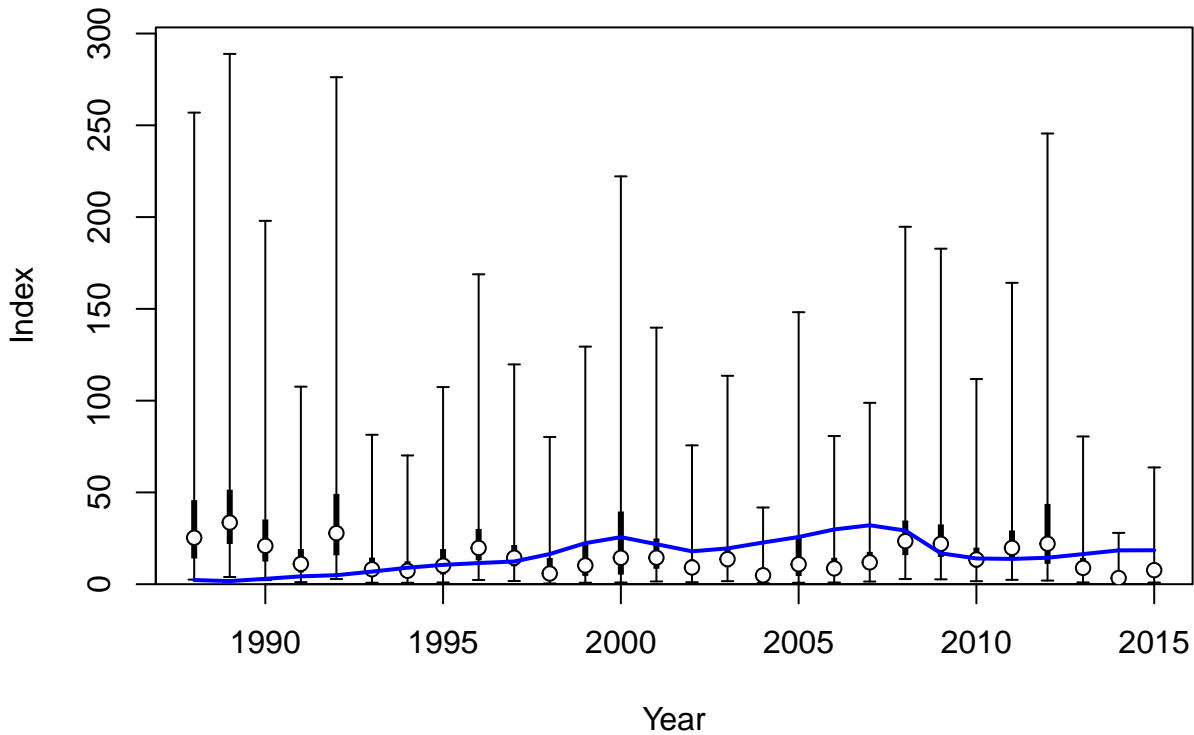
Fishing intensity: 1-SPR

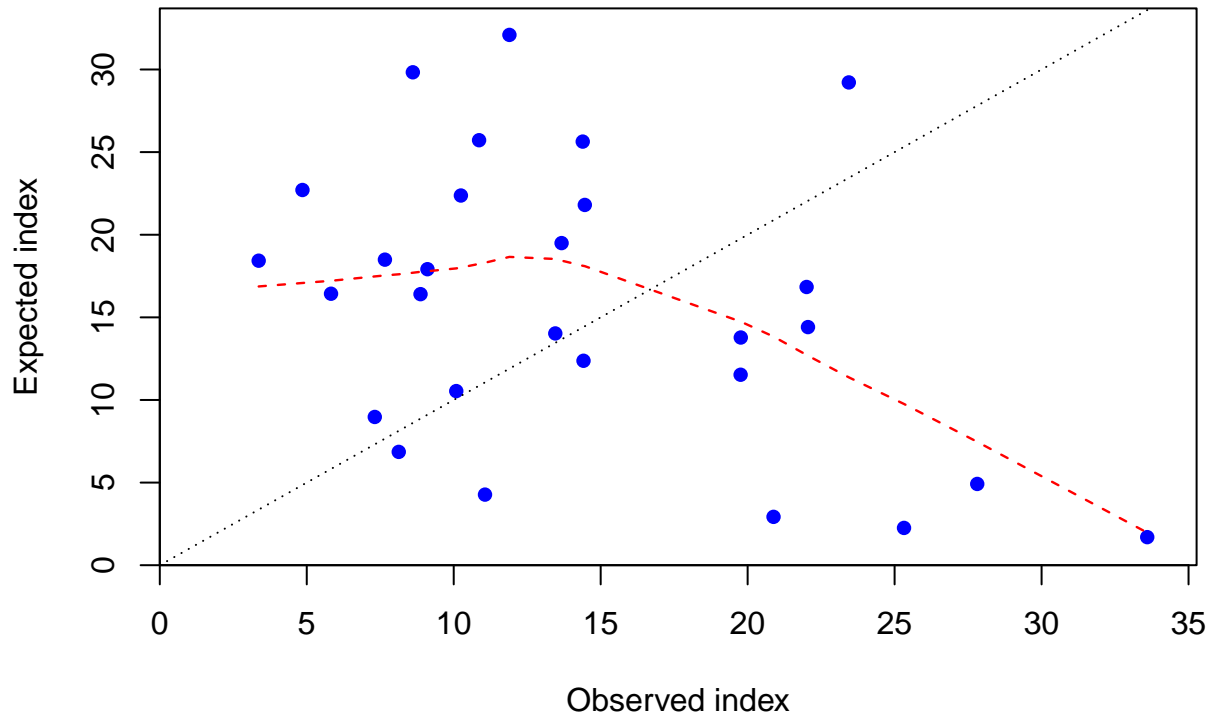


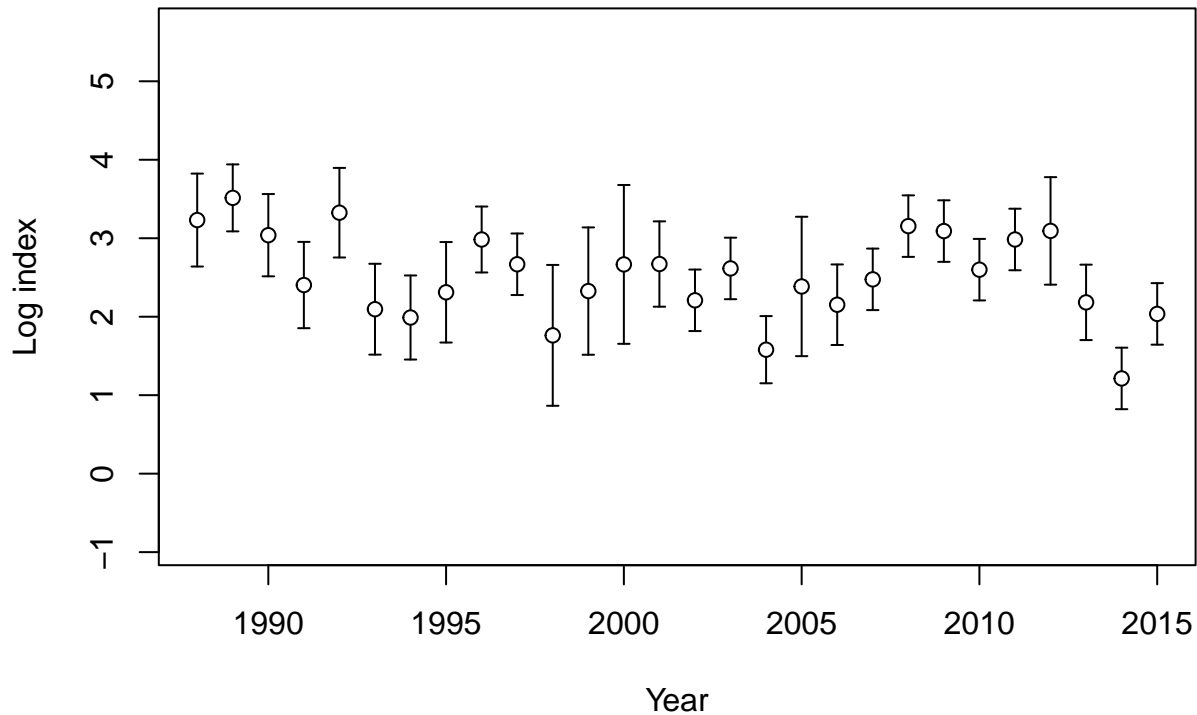
Fishing intensity: 1-SPR





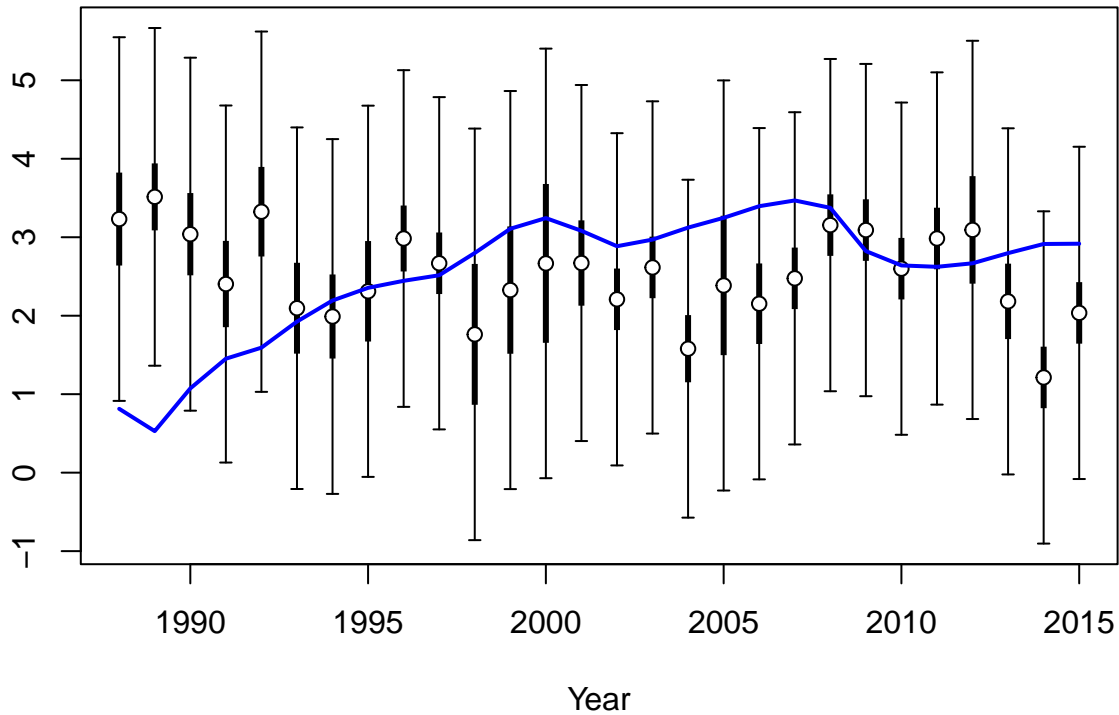


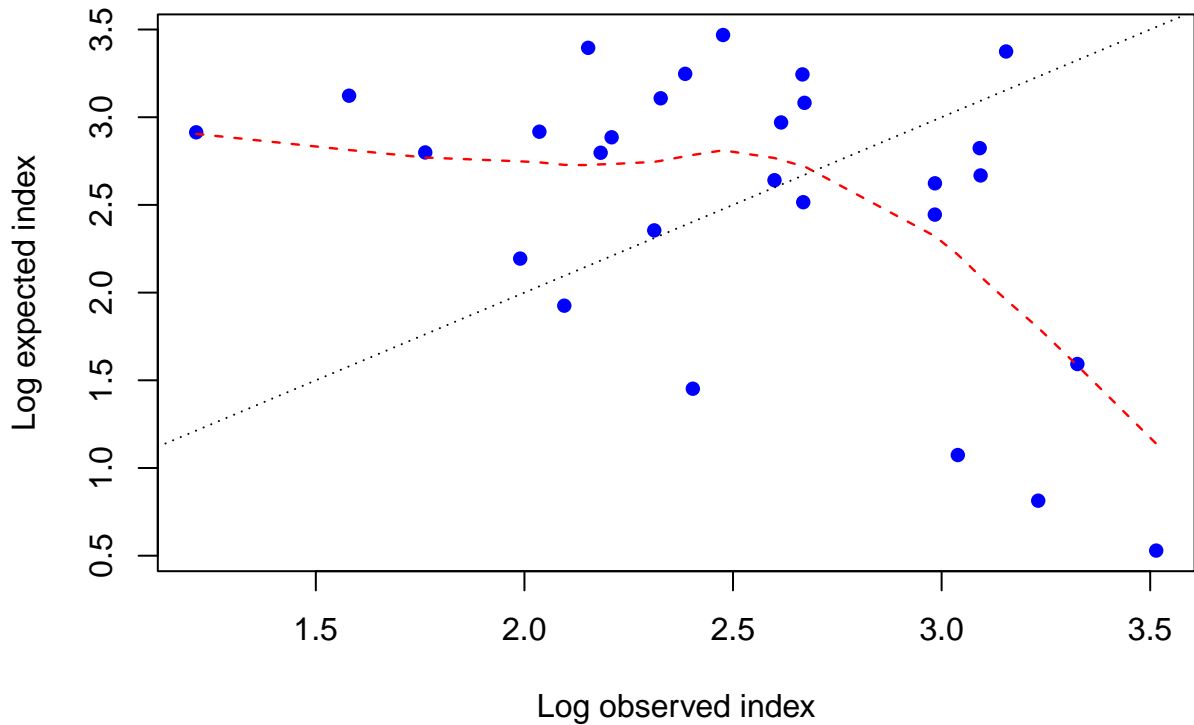


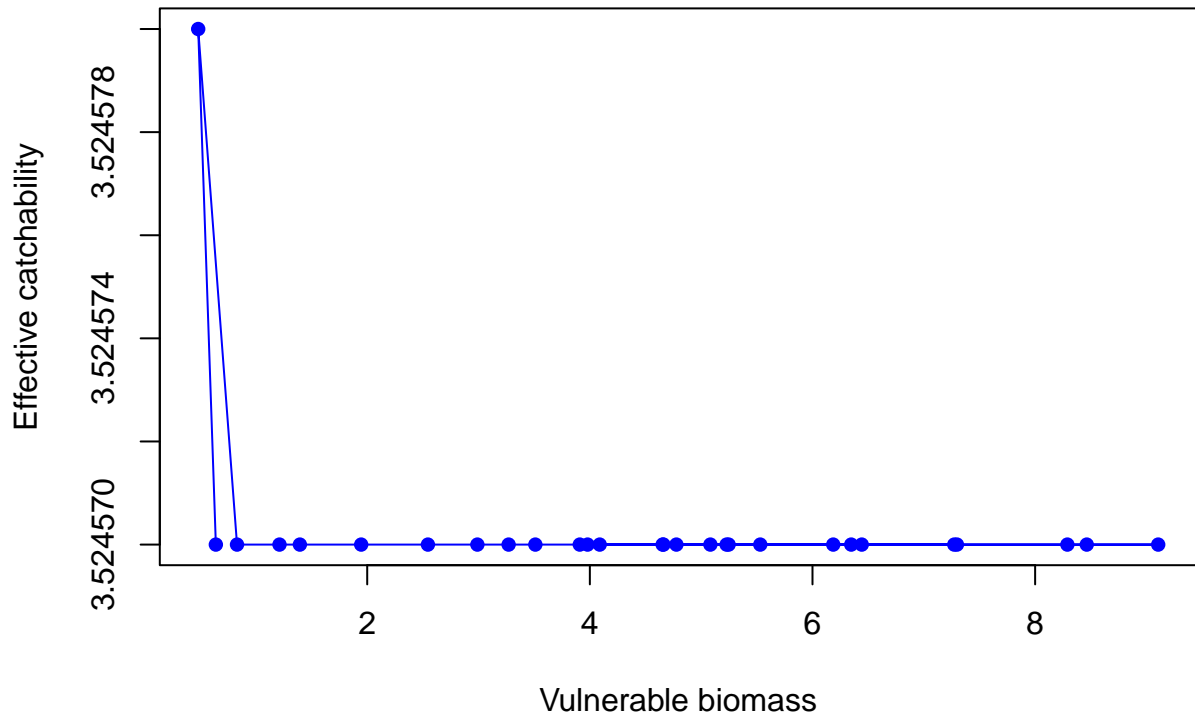


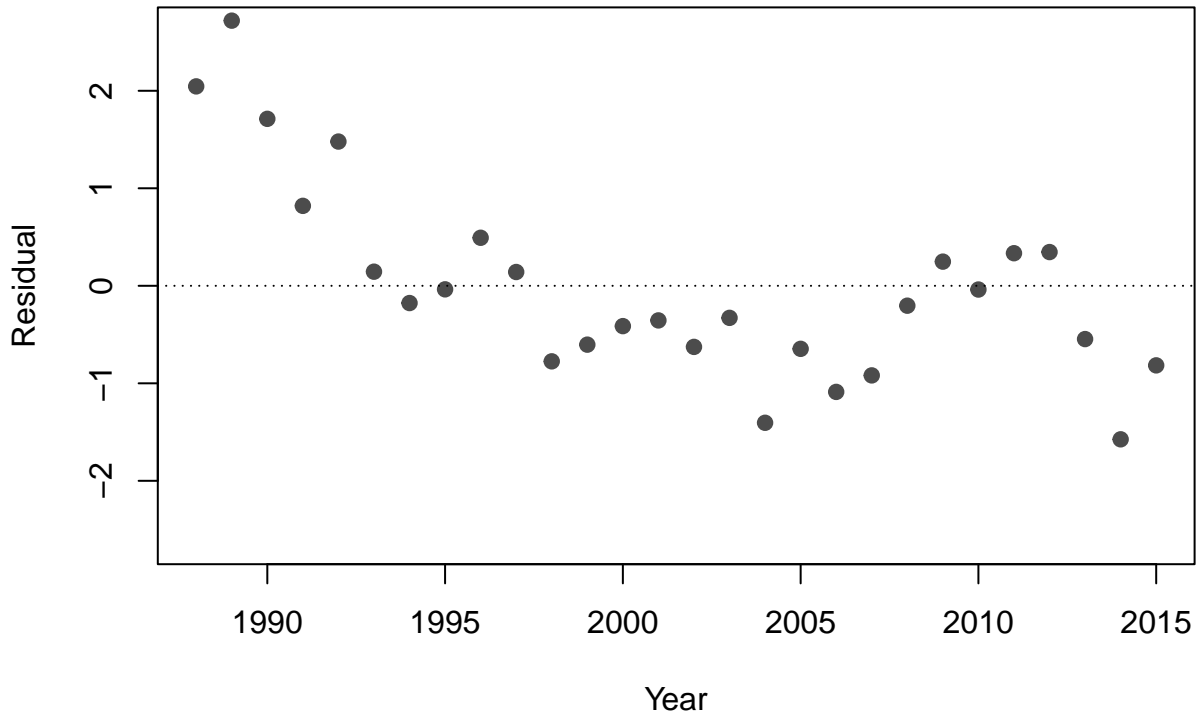


Log index

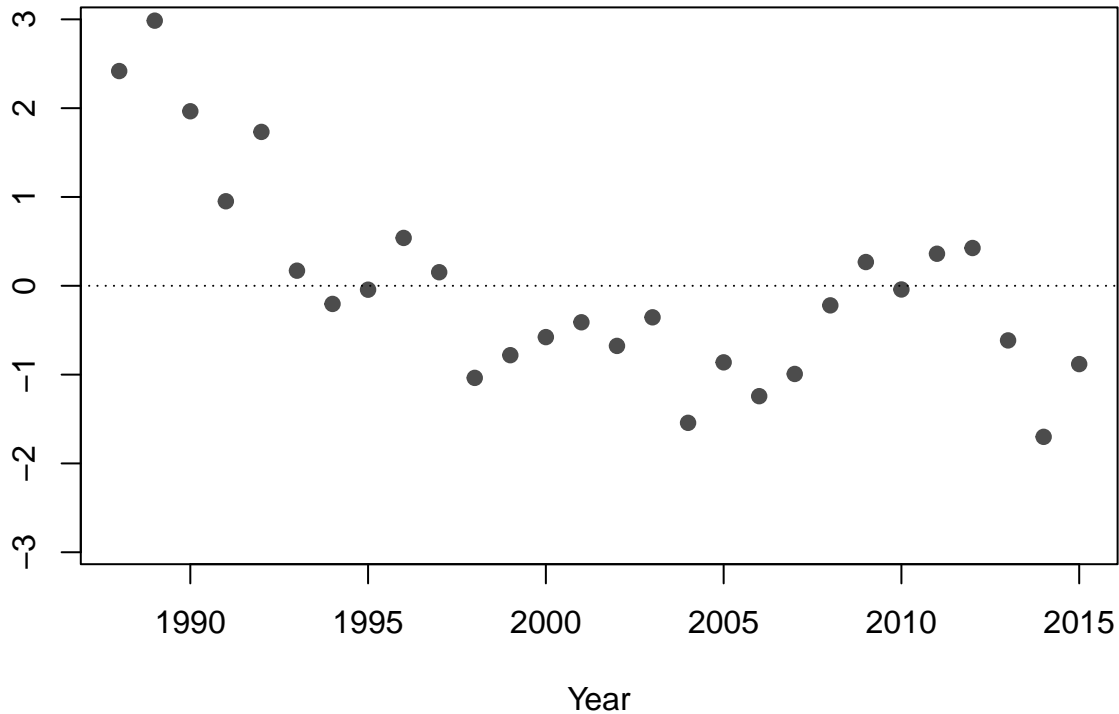




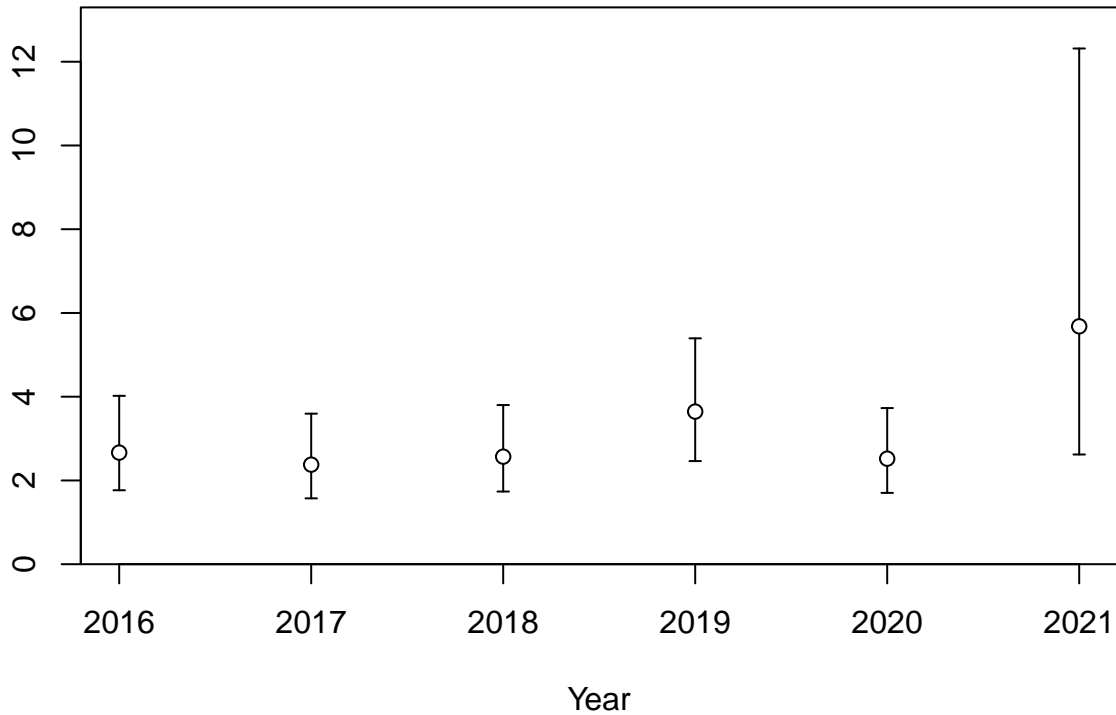




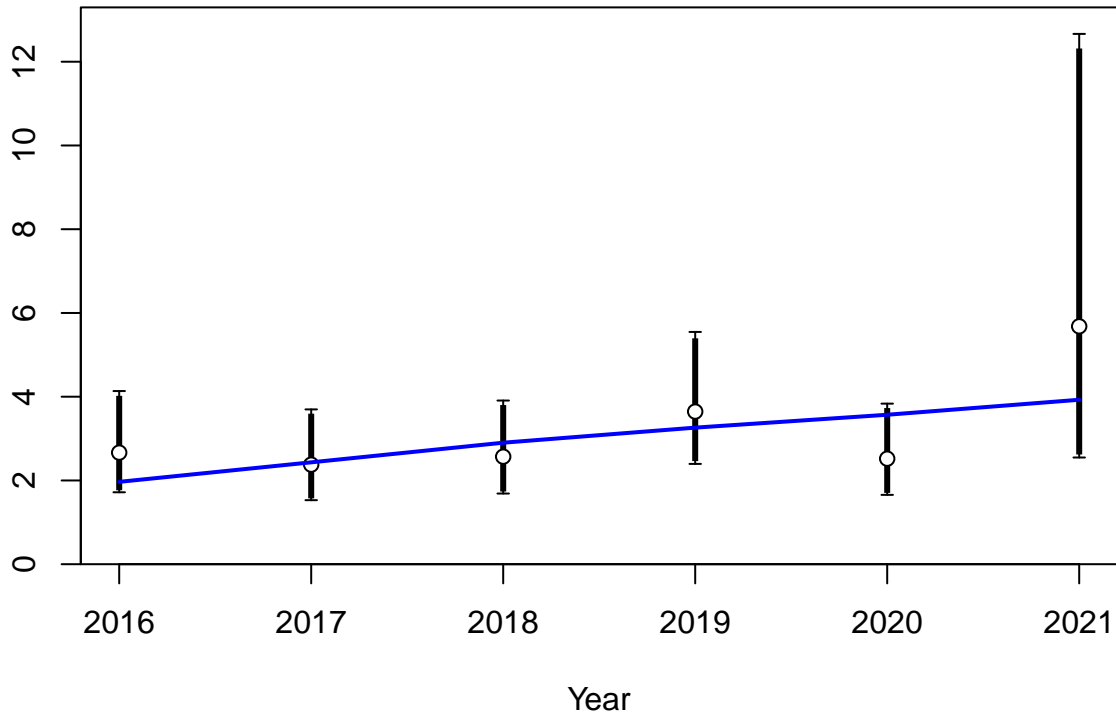
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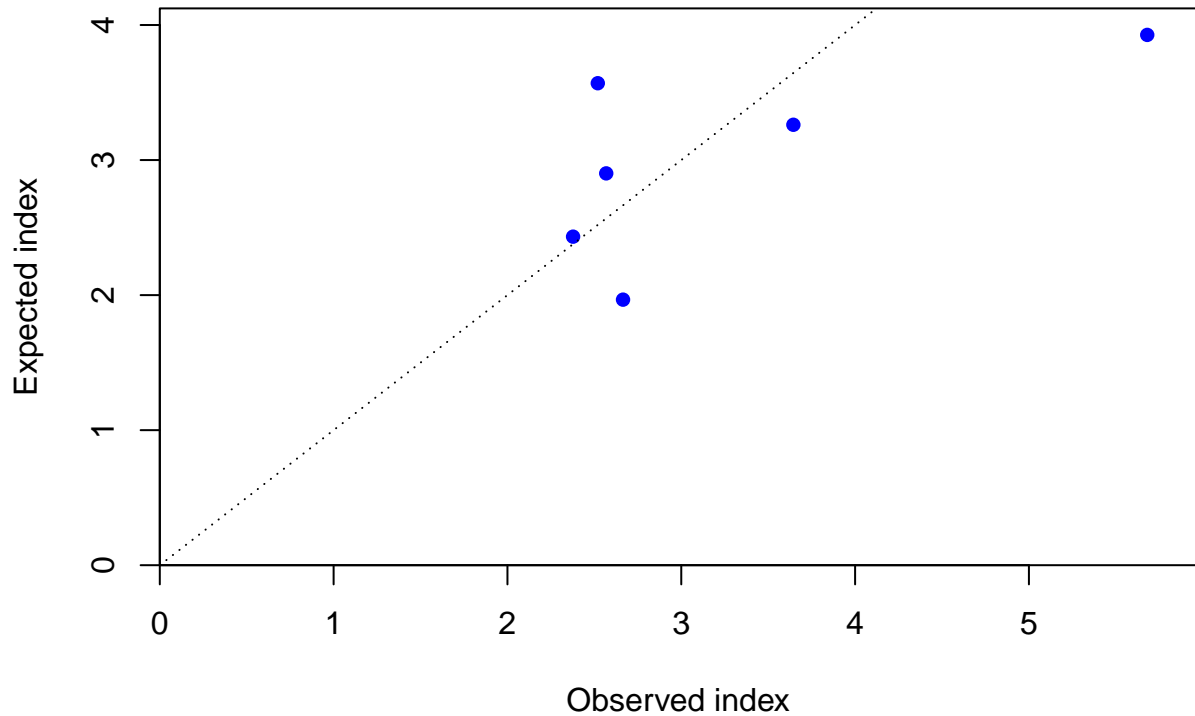


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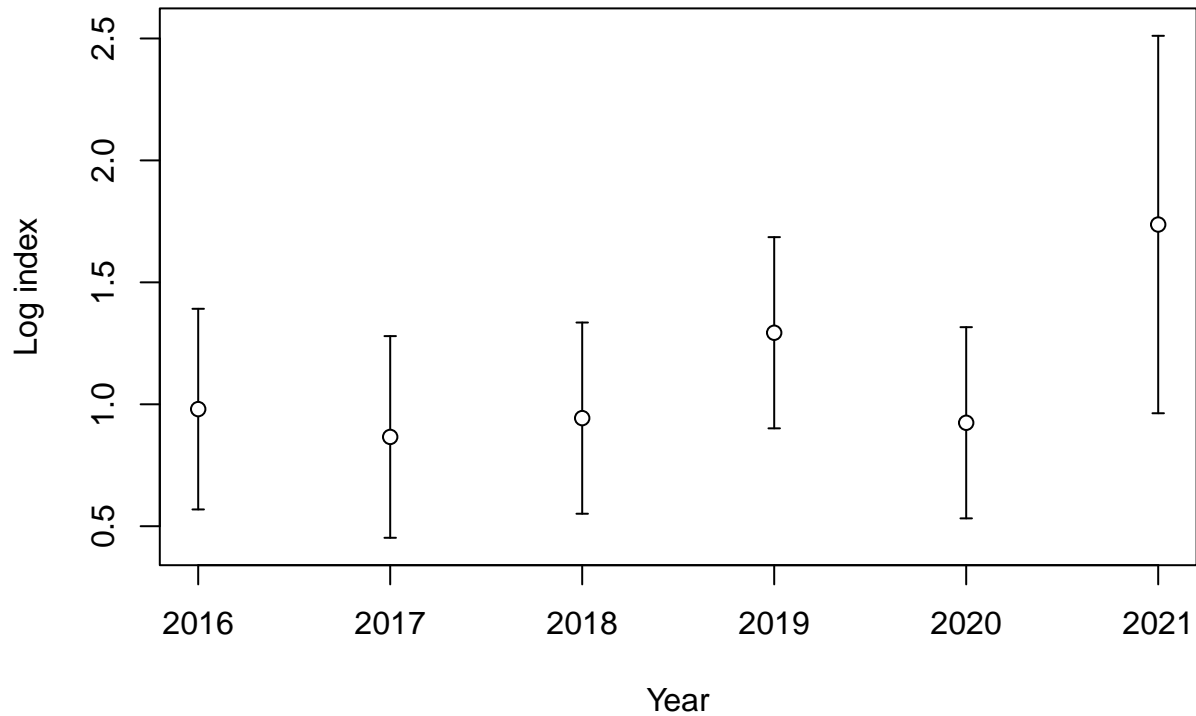


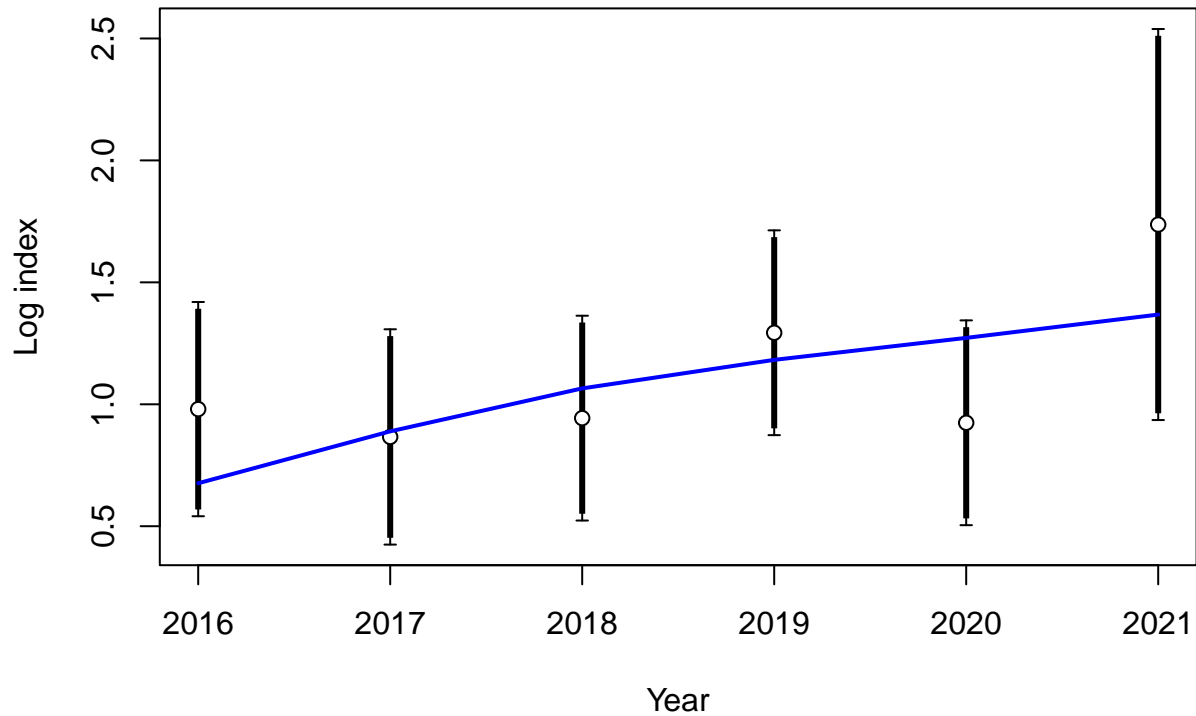
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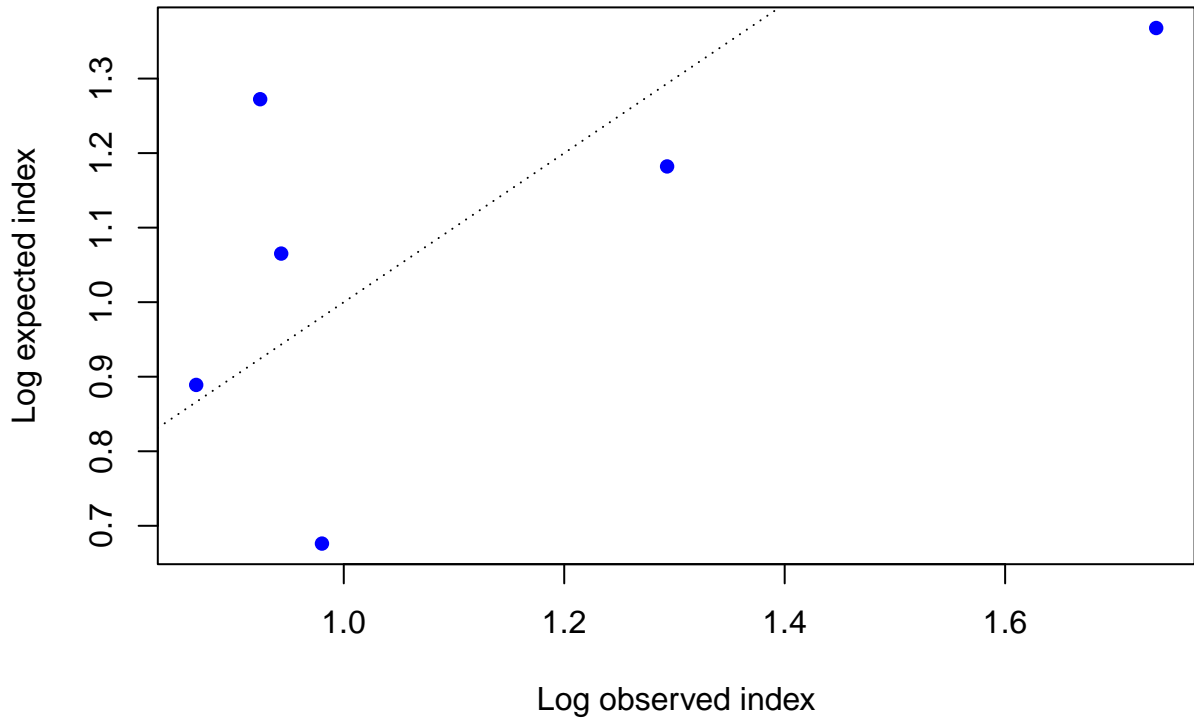


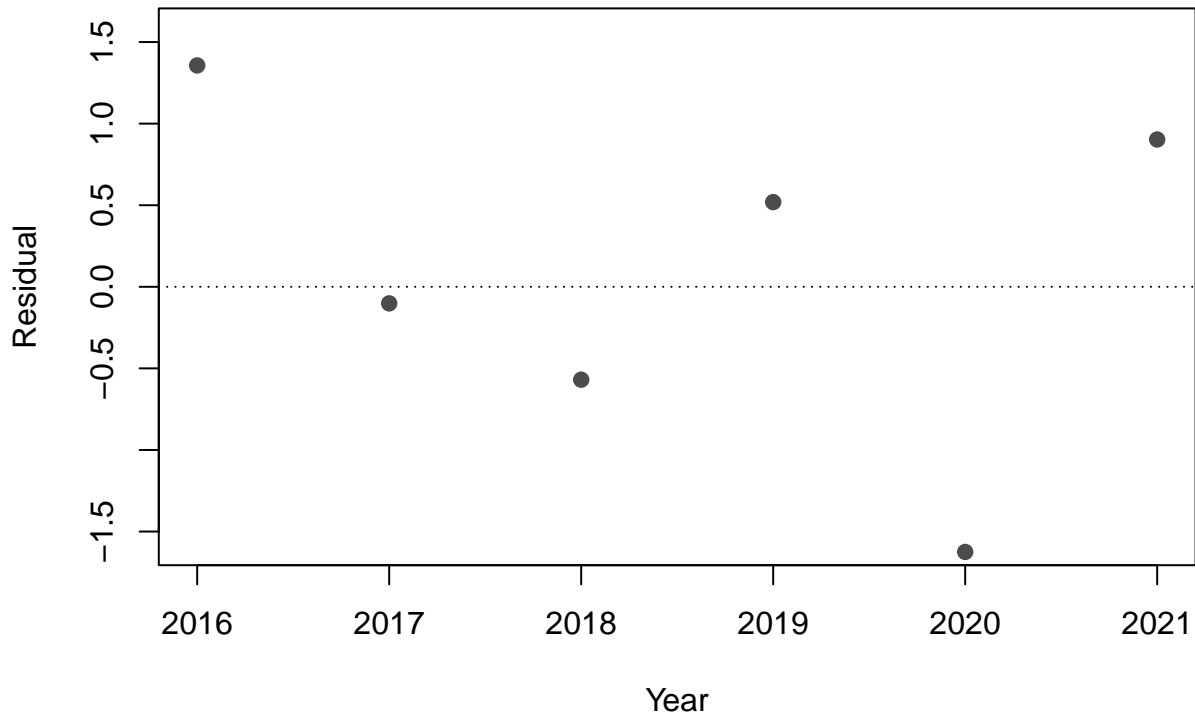


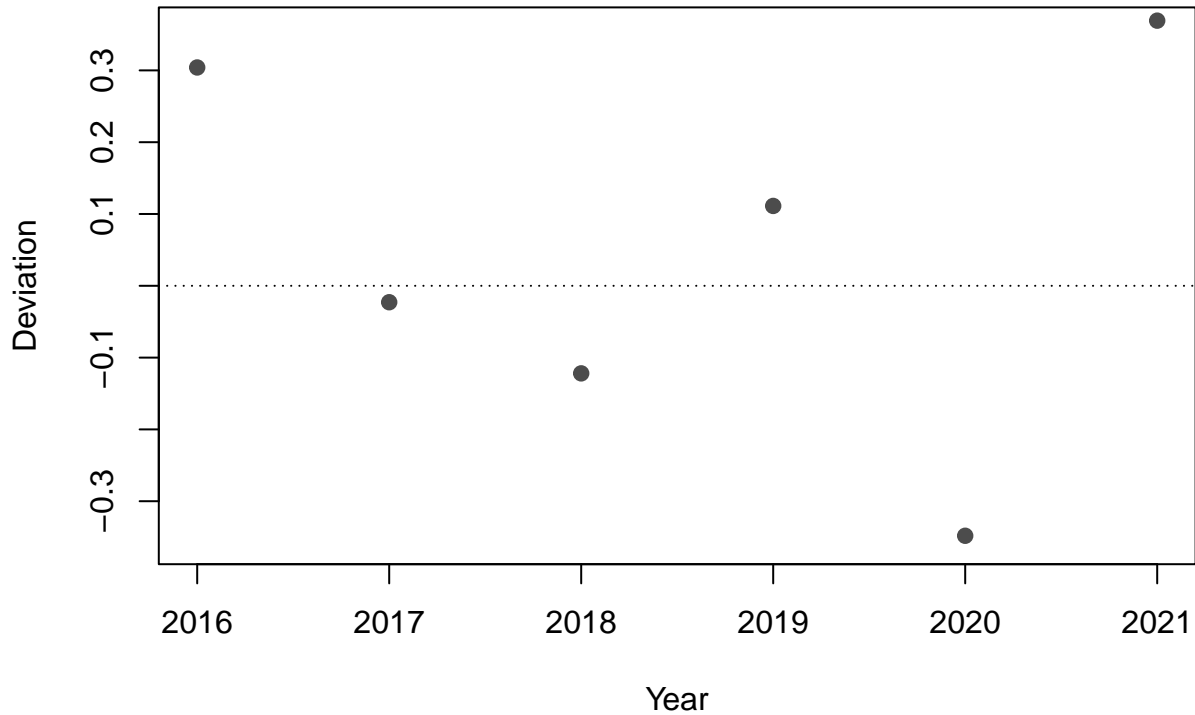


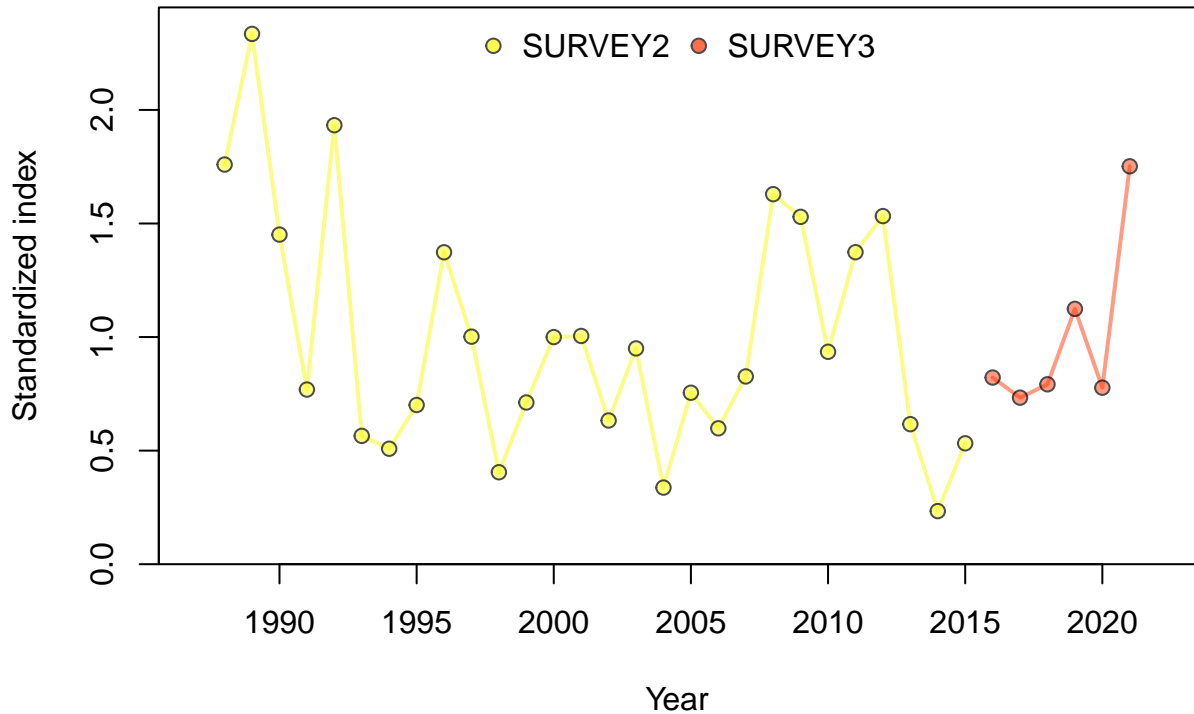




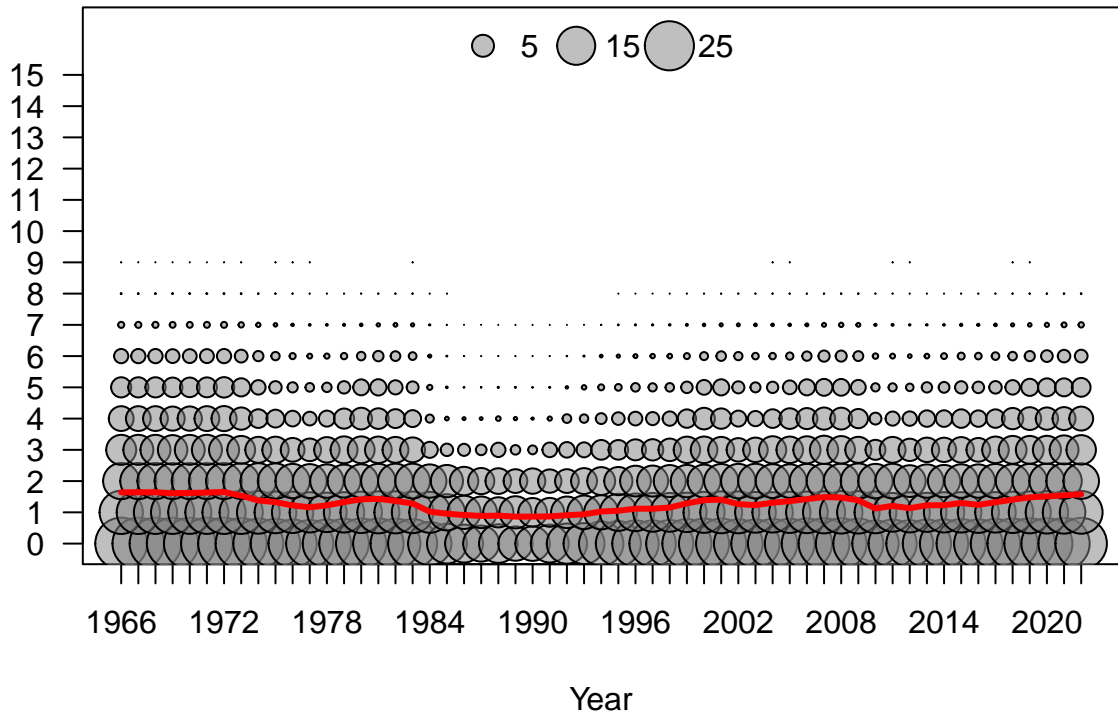


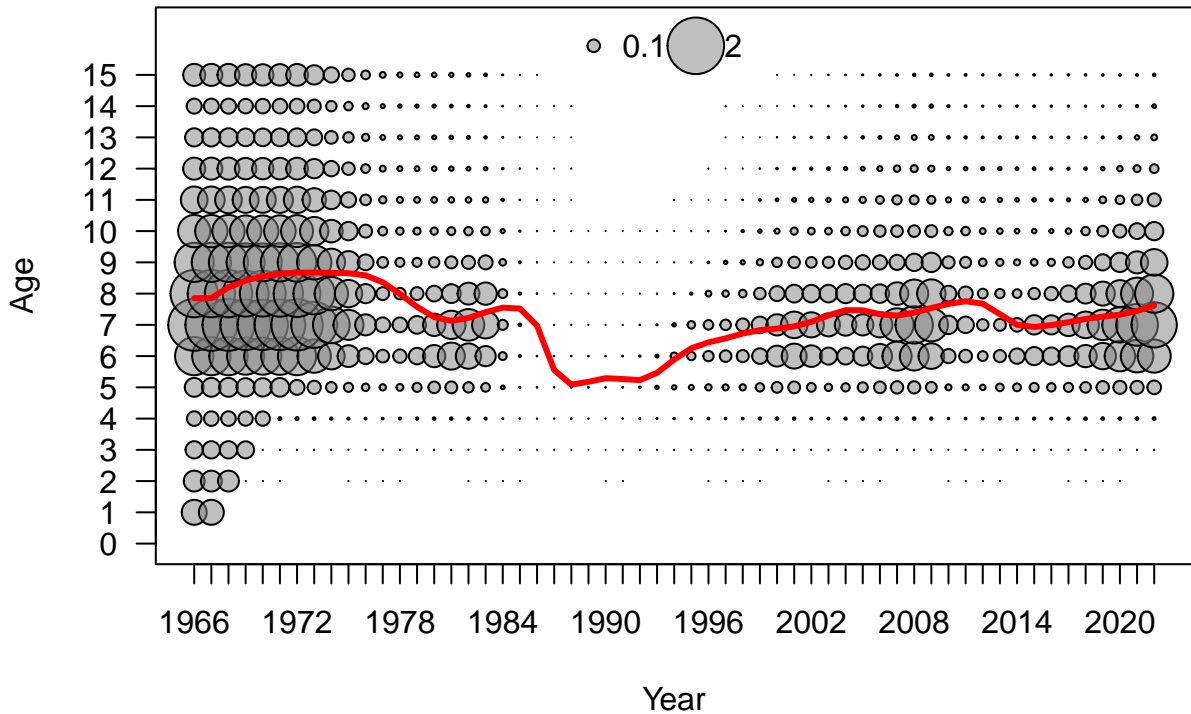




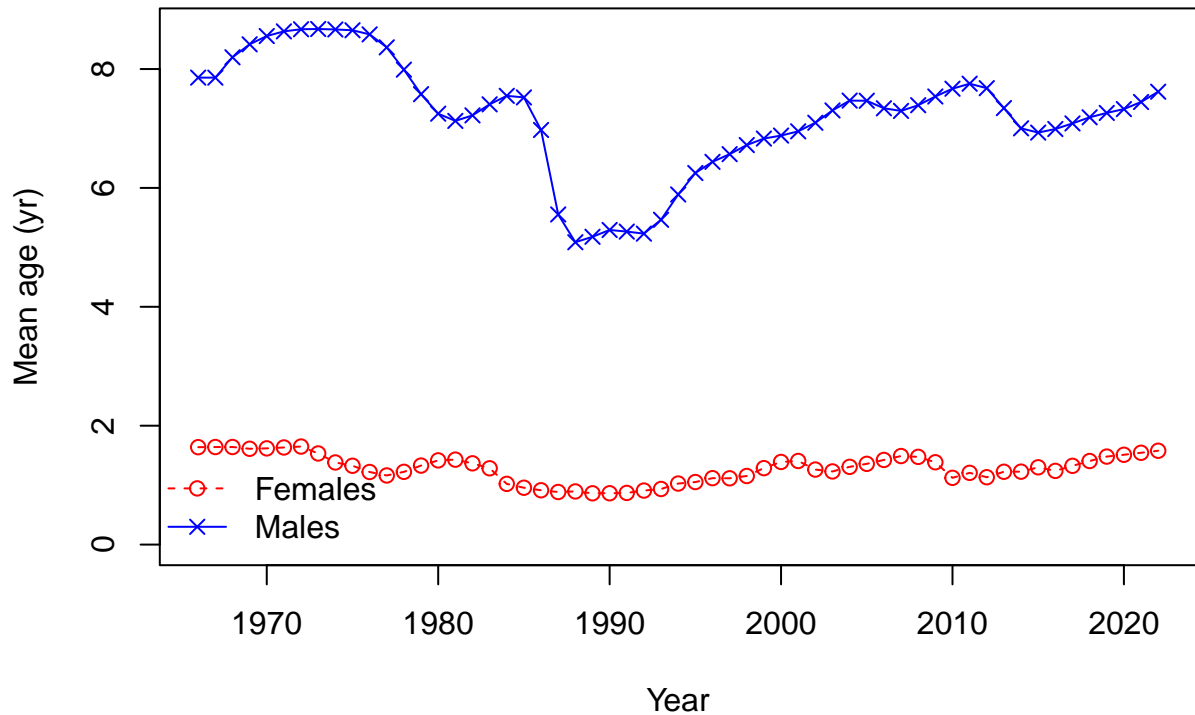


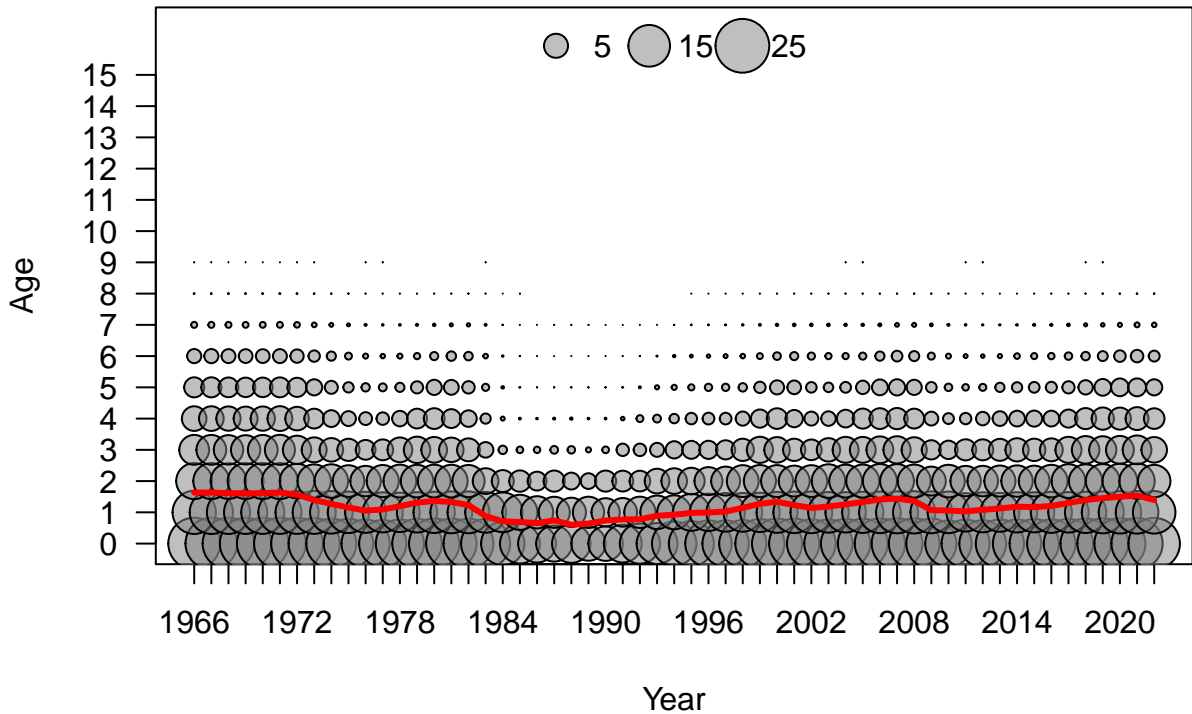
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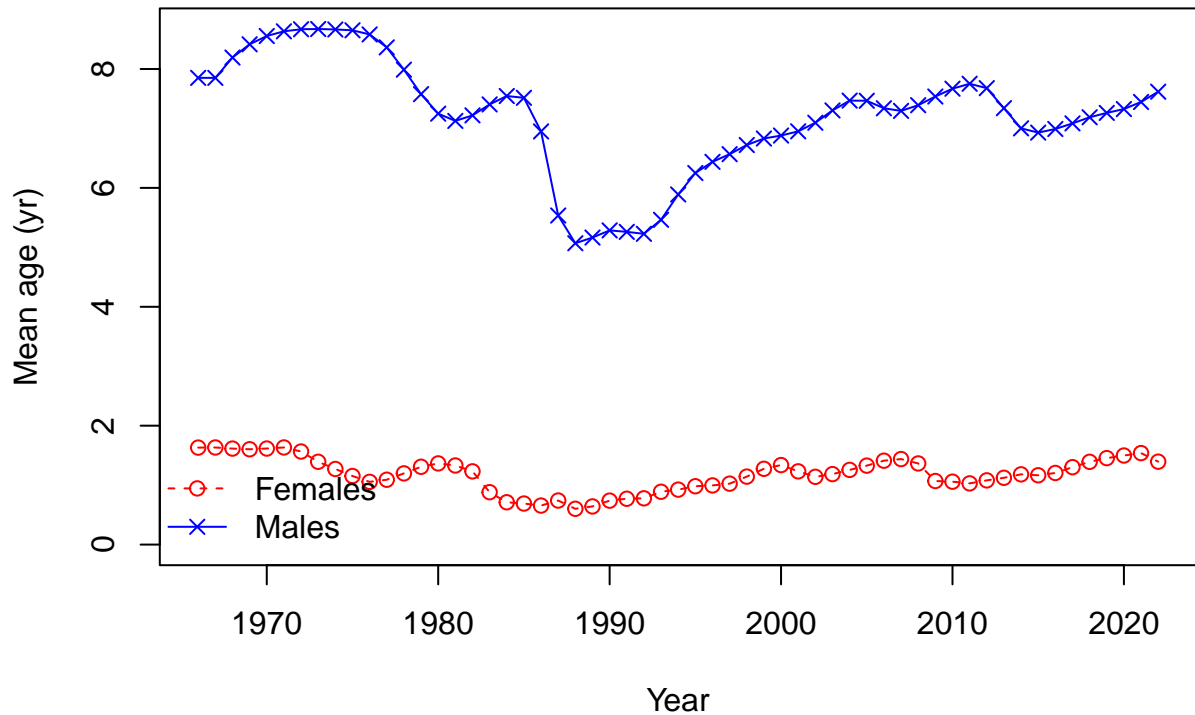












Age

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10  
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6  
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1990

2000

2010

2020

Year

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0.8

0.1

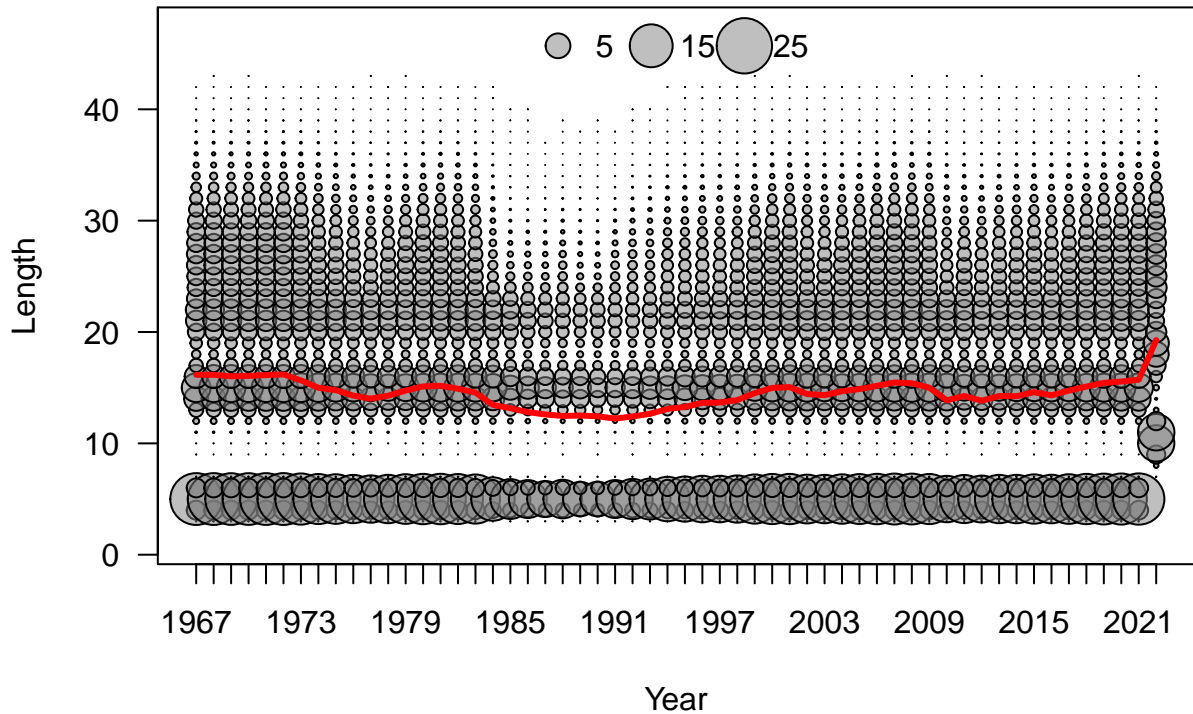
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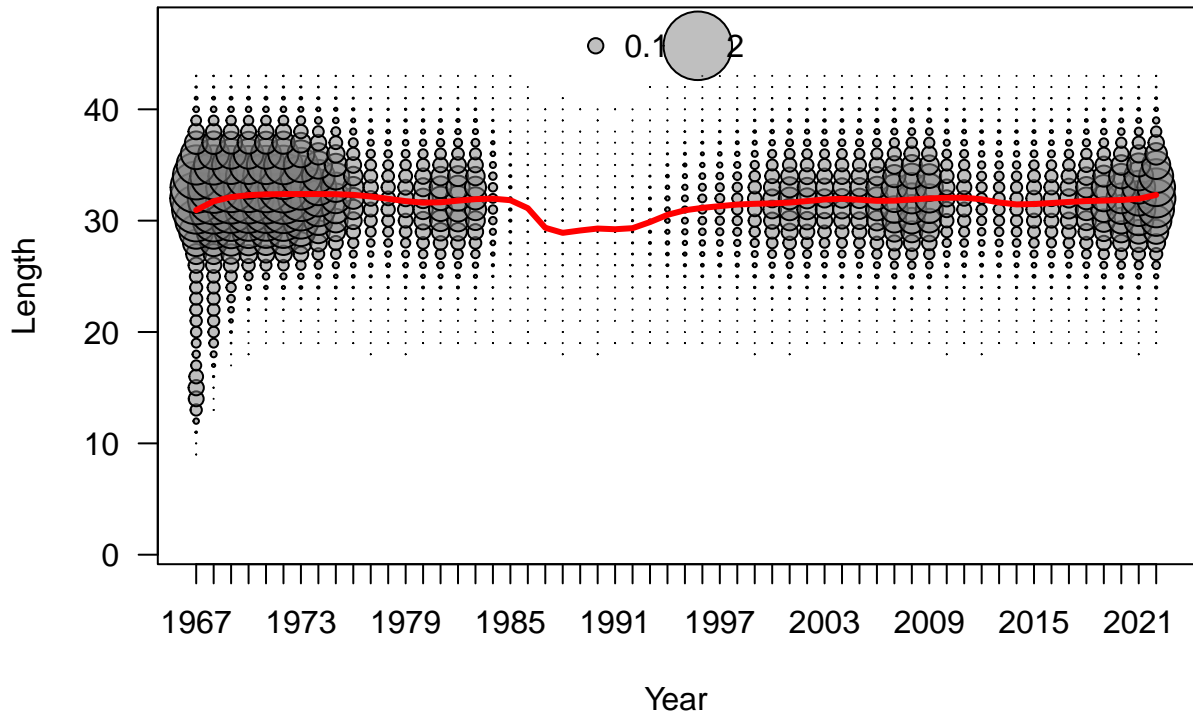
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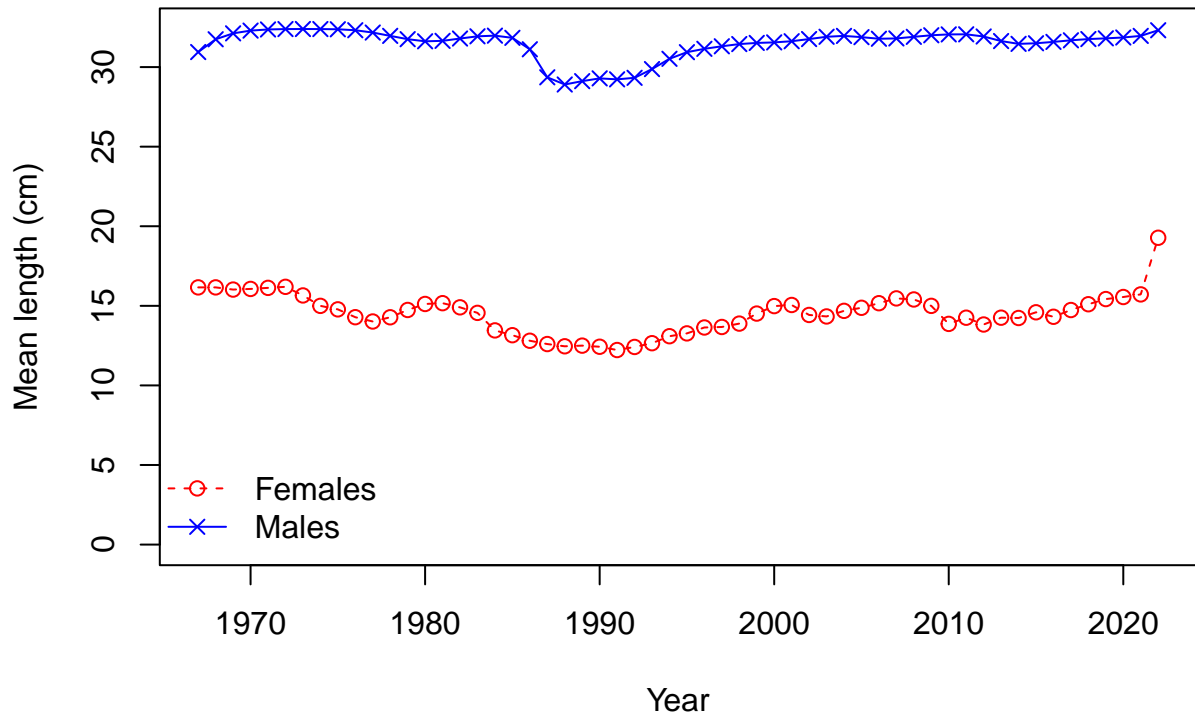
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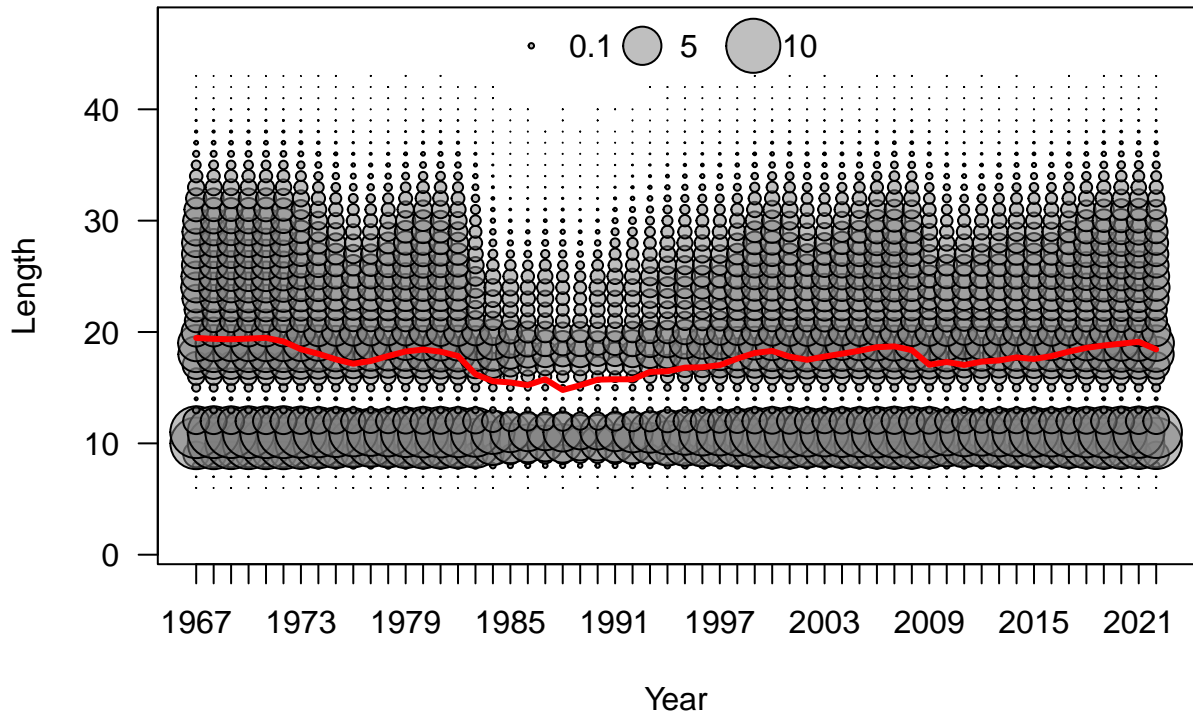
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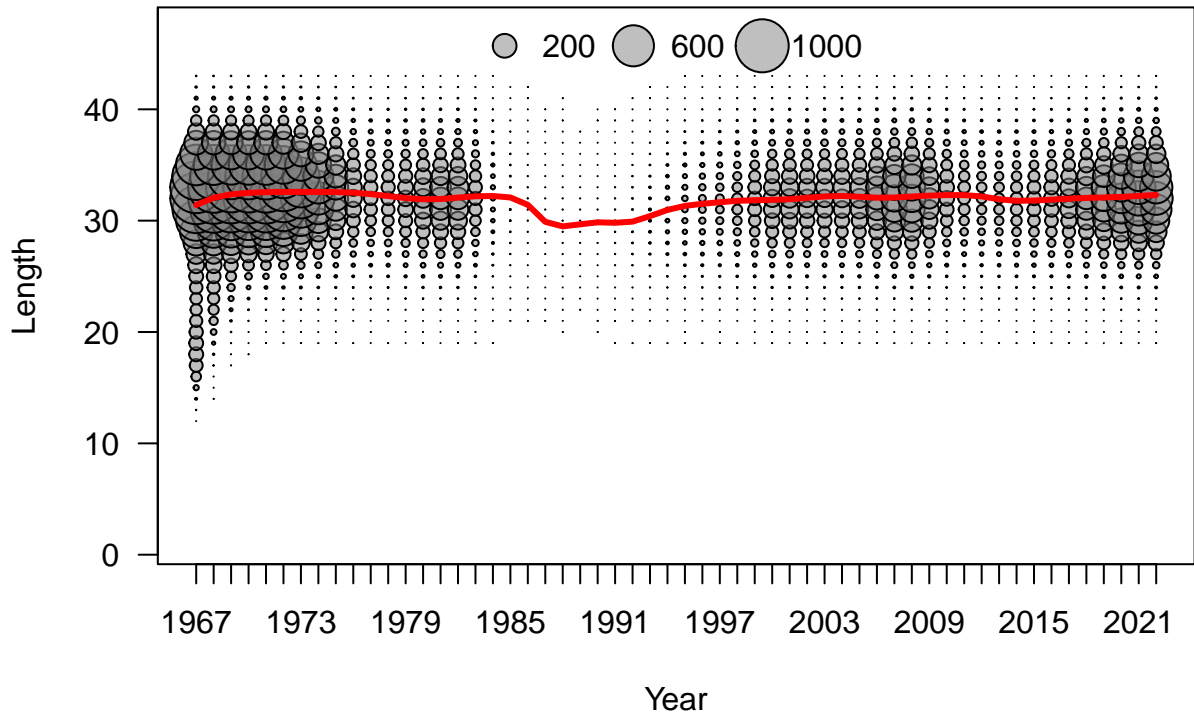


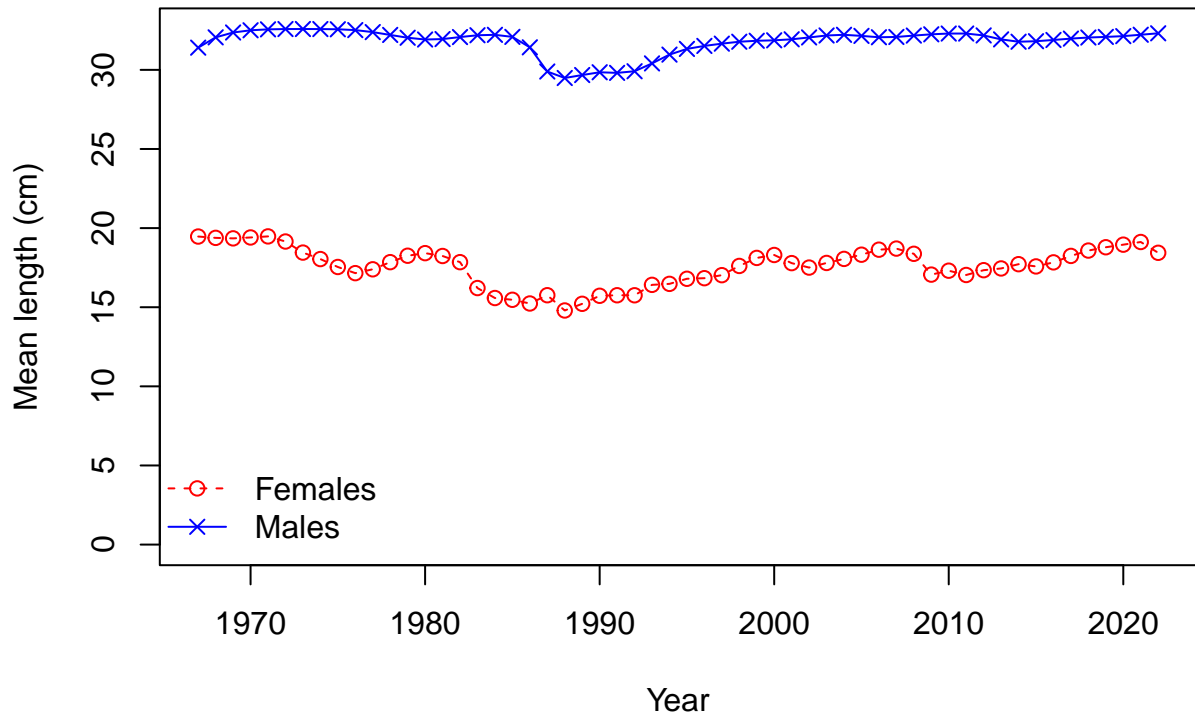




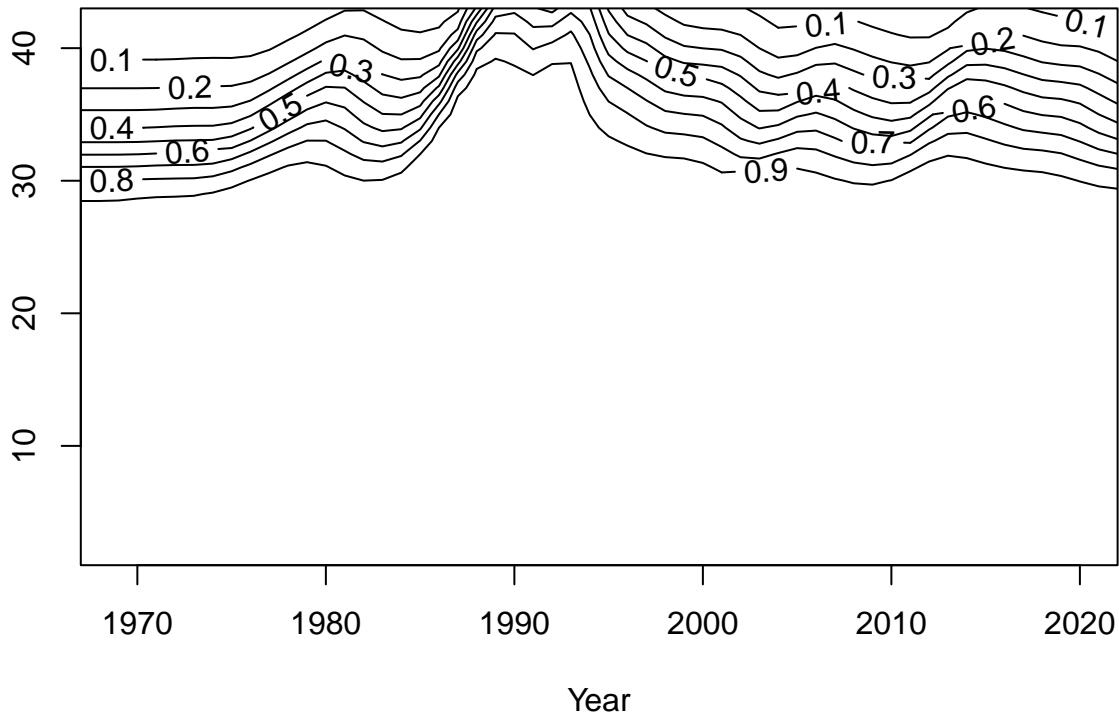


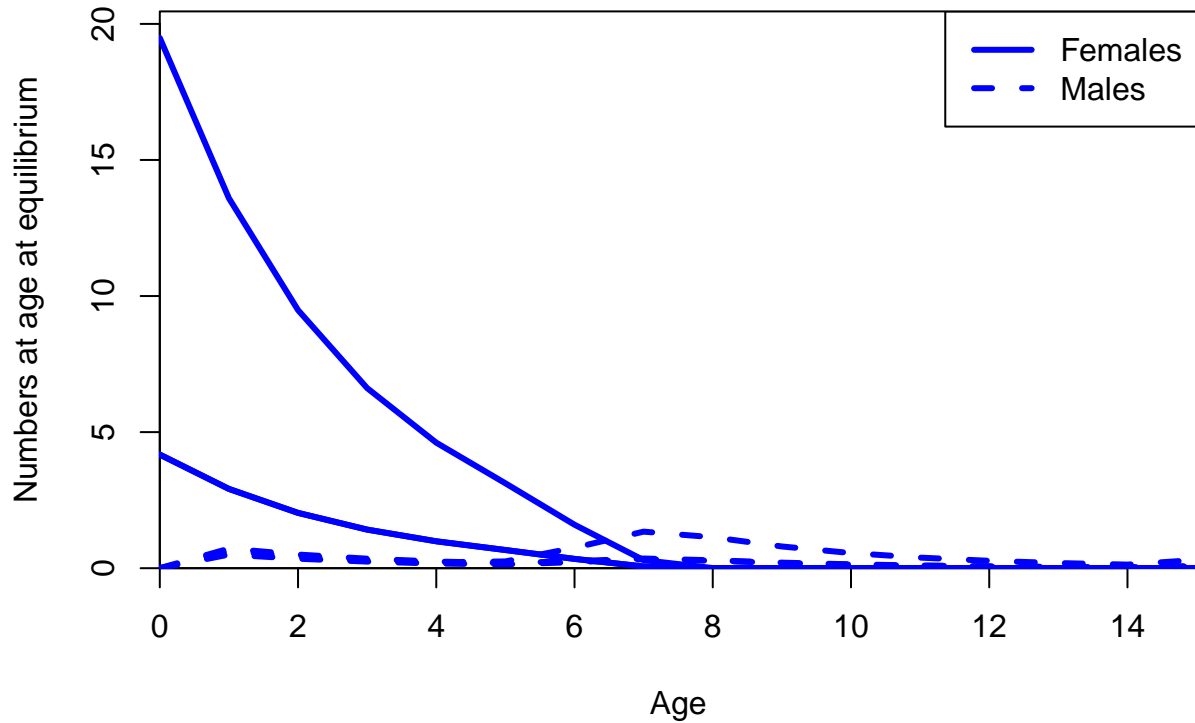






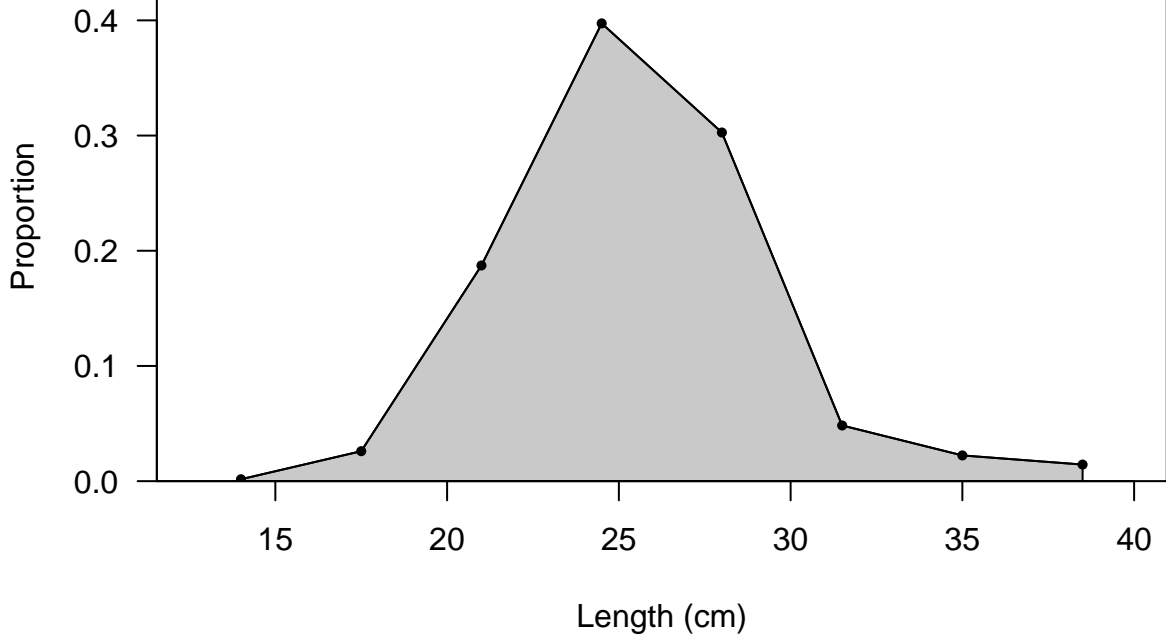
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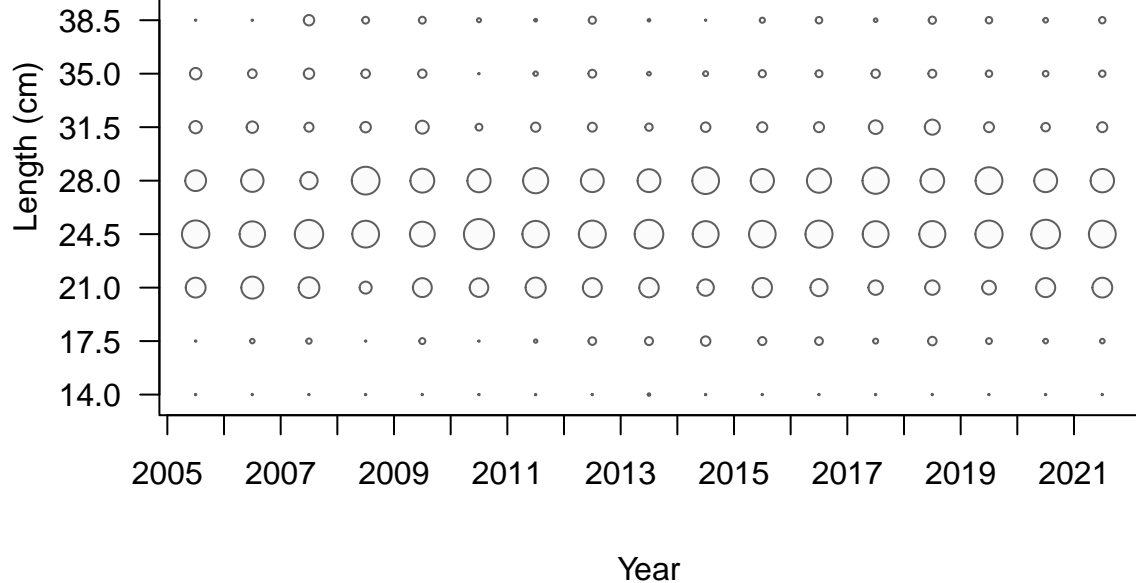
**FISHERY**

Sum of N input=5953

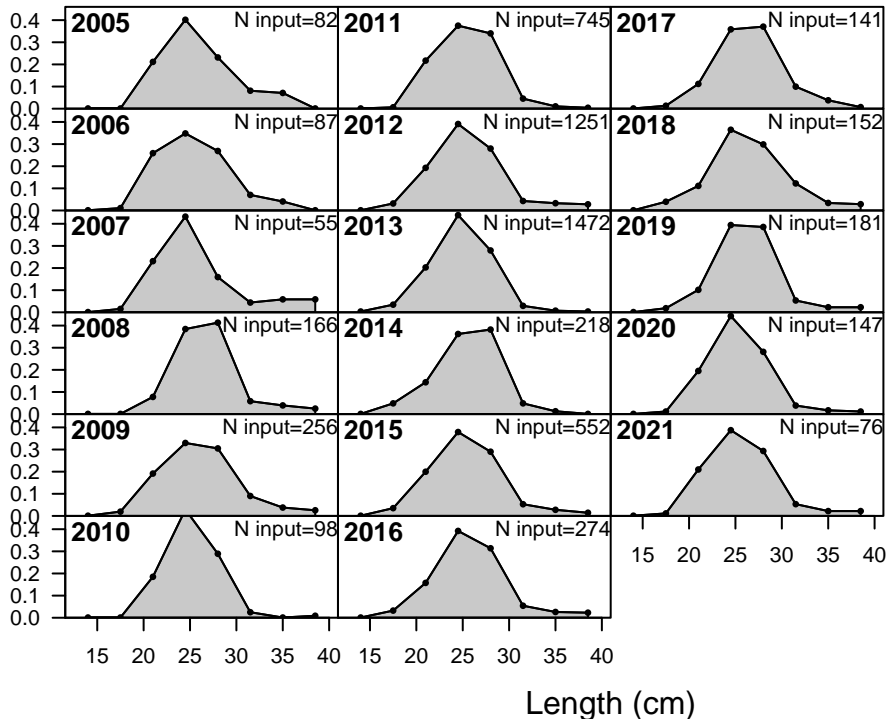


# FISHERY

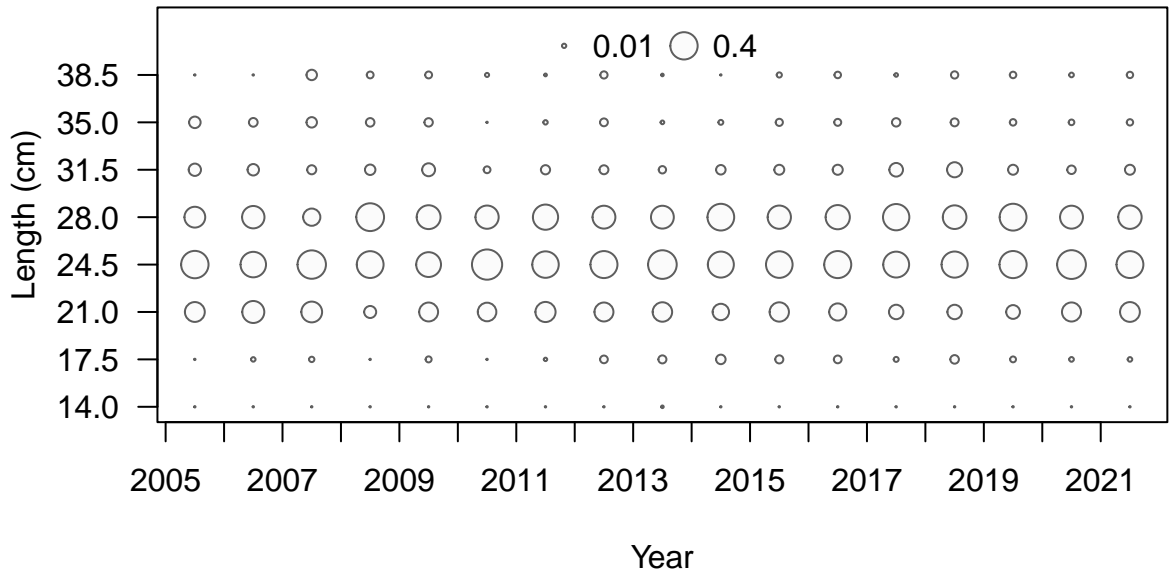
◦ 0.01 ○ 0.4



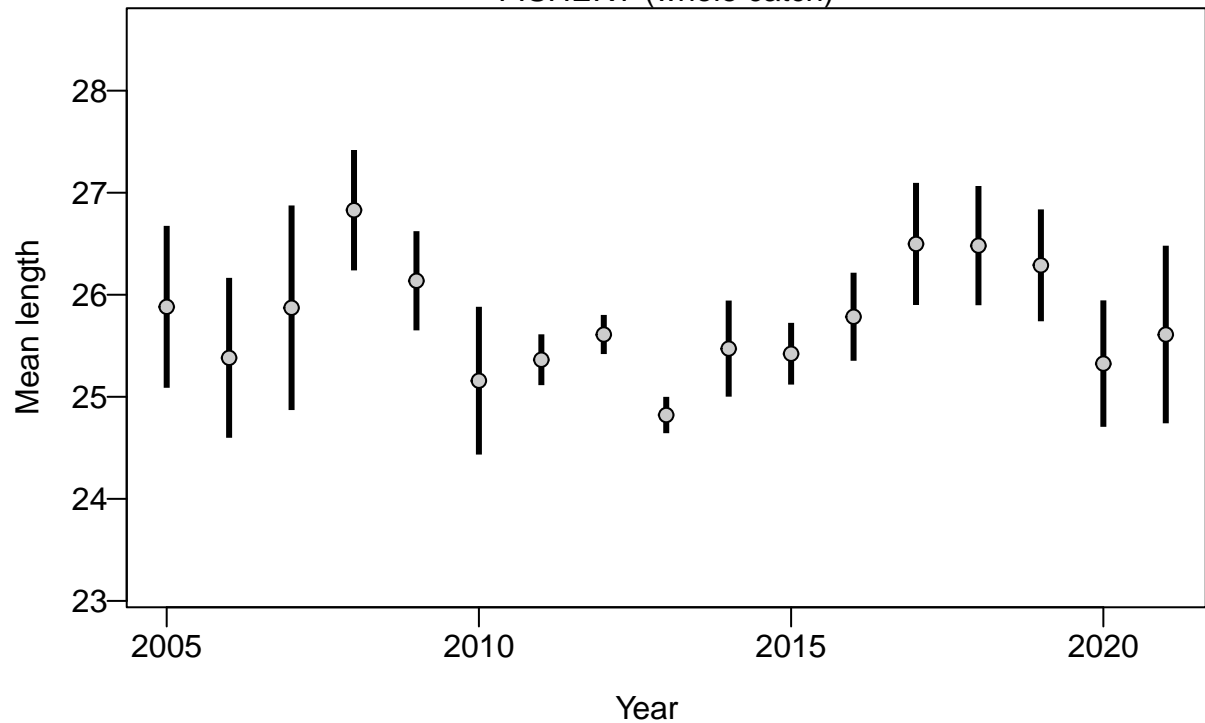
Proportion





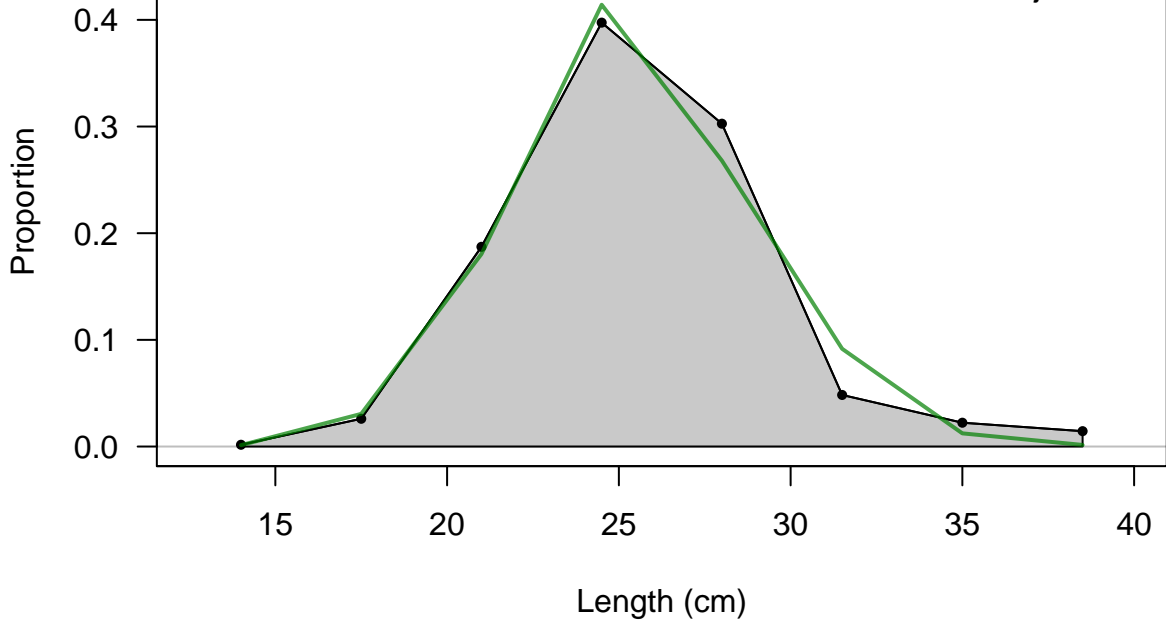


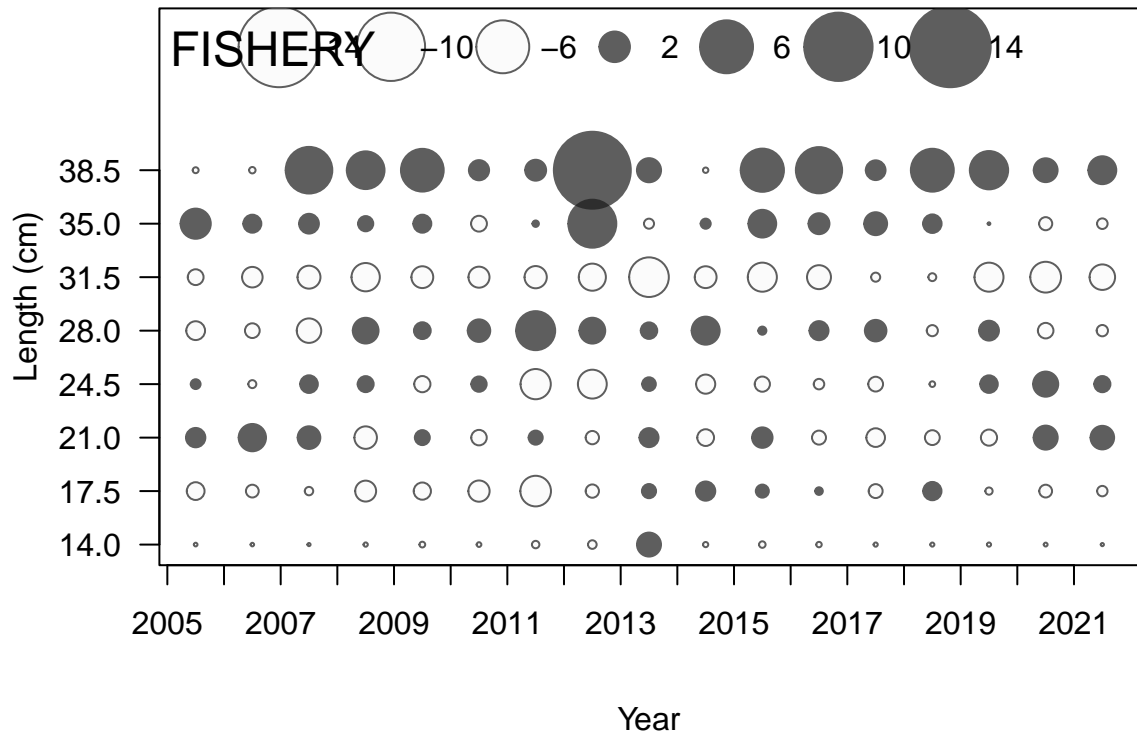
## FISHERY (whole catch)



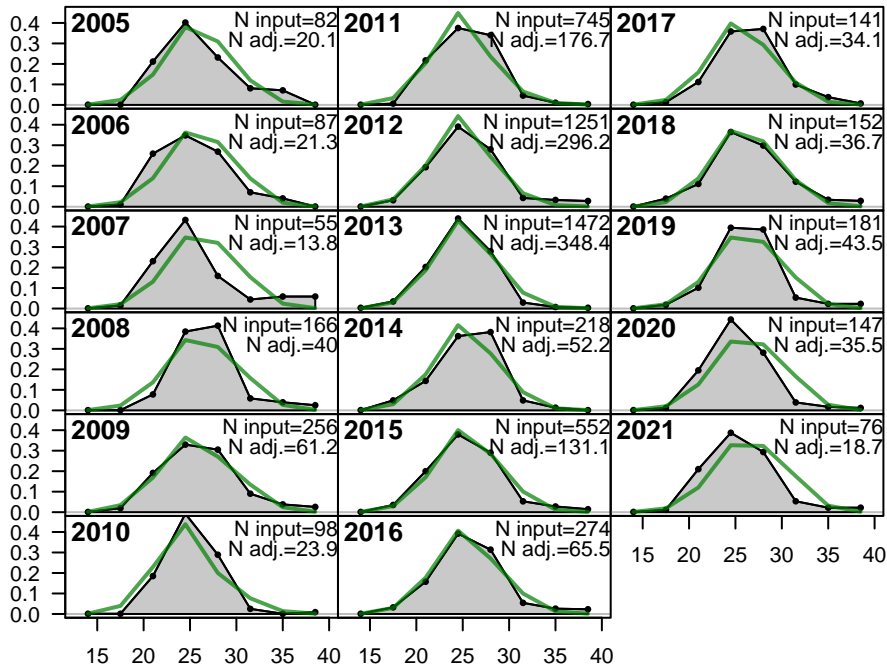
# FISHERY

Sum of N input=5953  
Sum of N adj.=1418.8

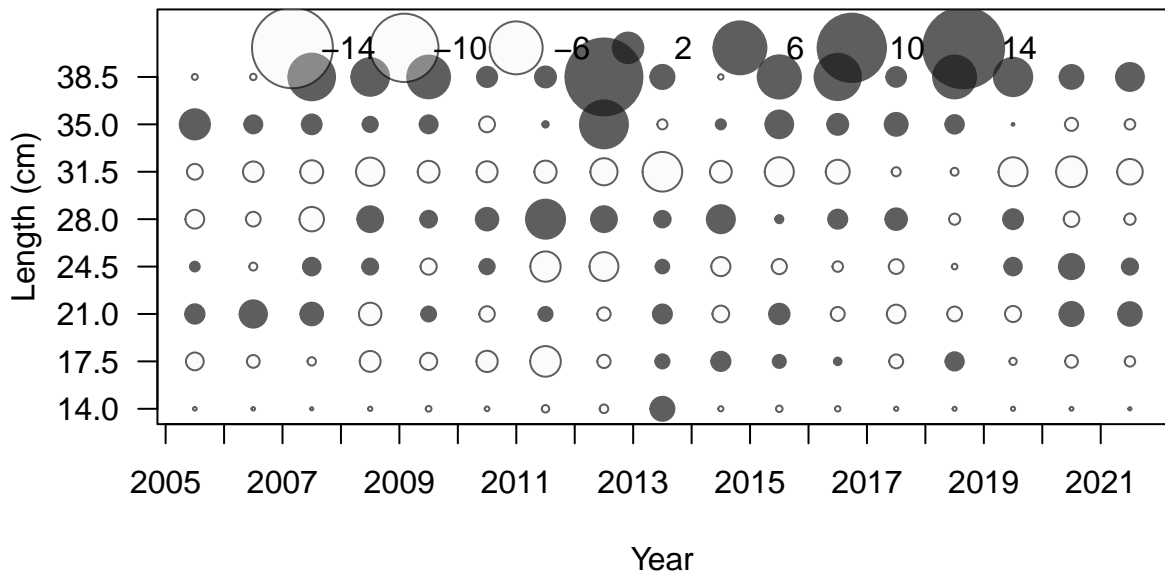




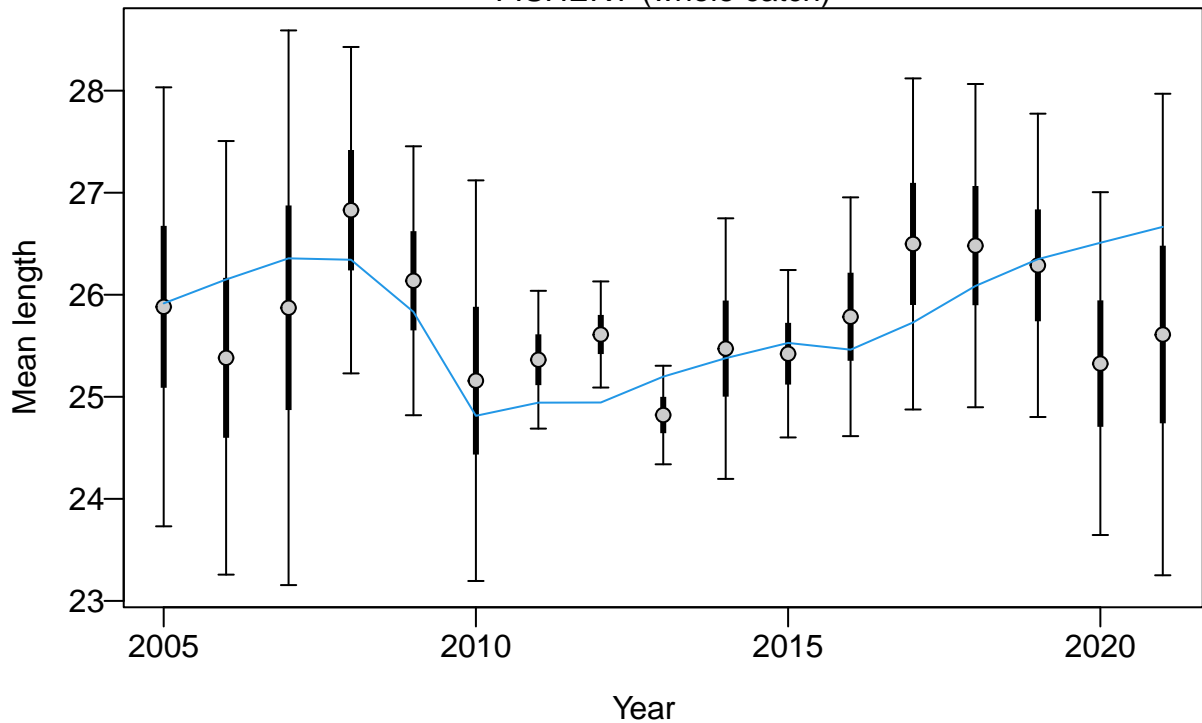
Proportion

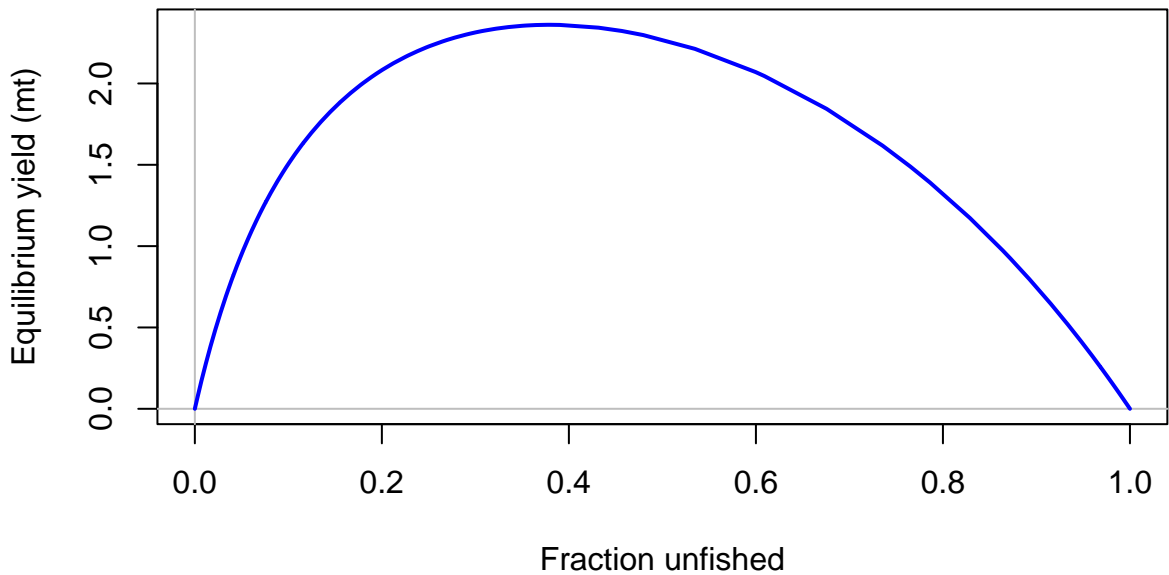


Length (cm)

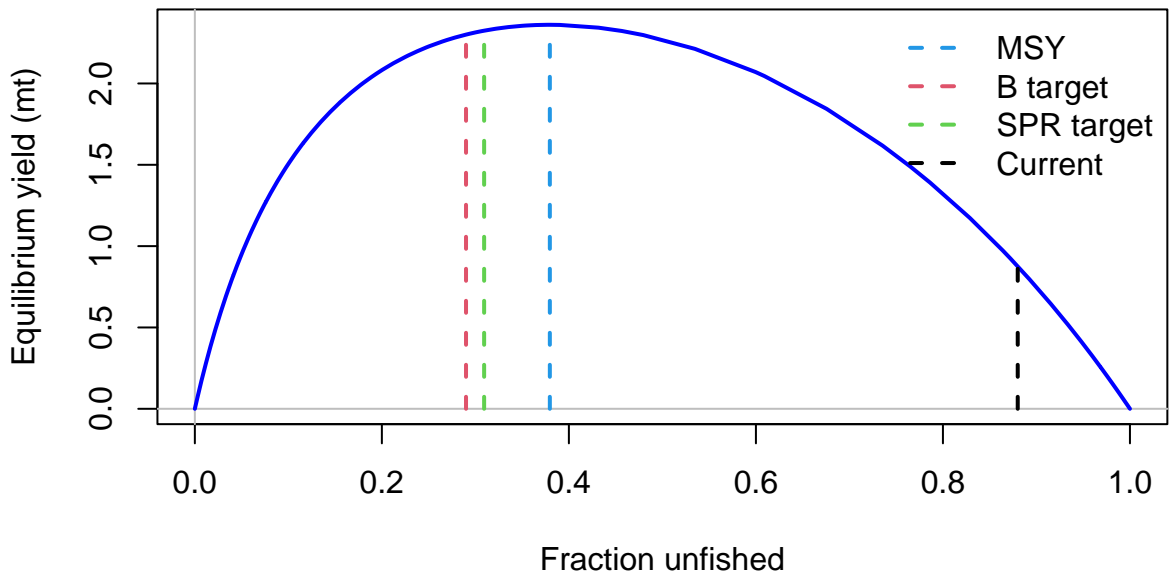


## FISHERY (whole catch)

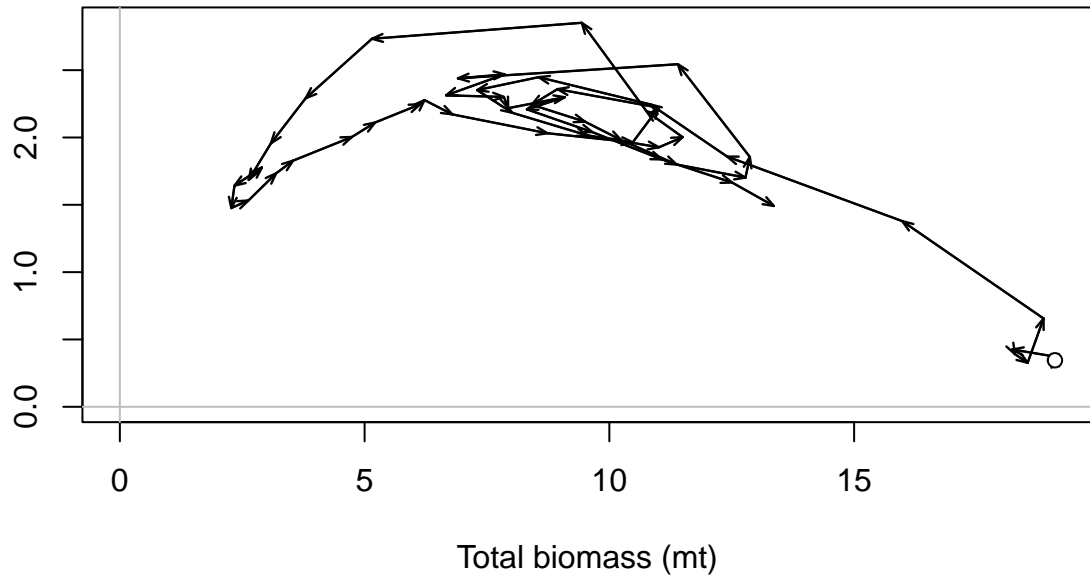


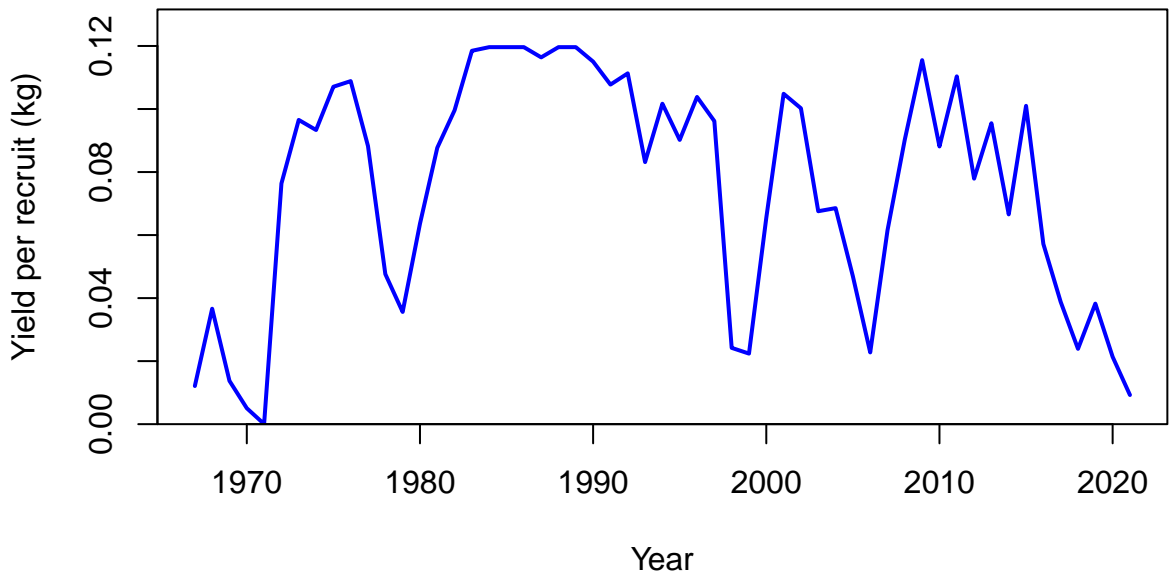


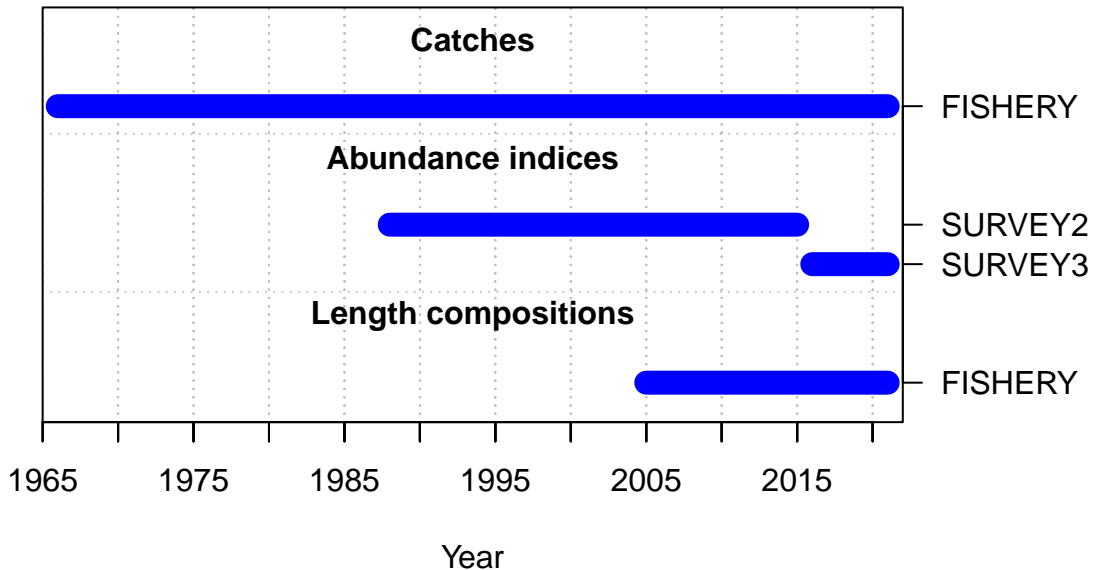


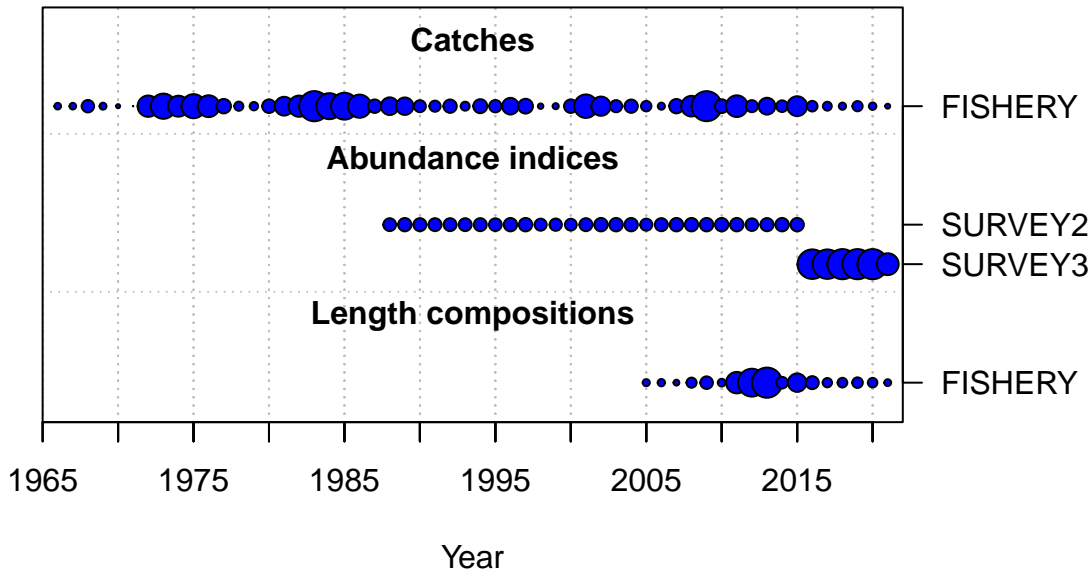


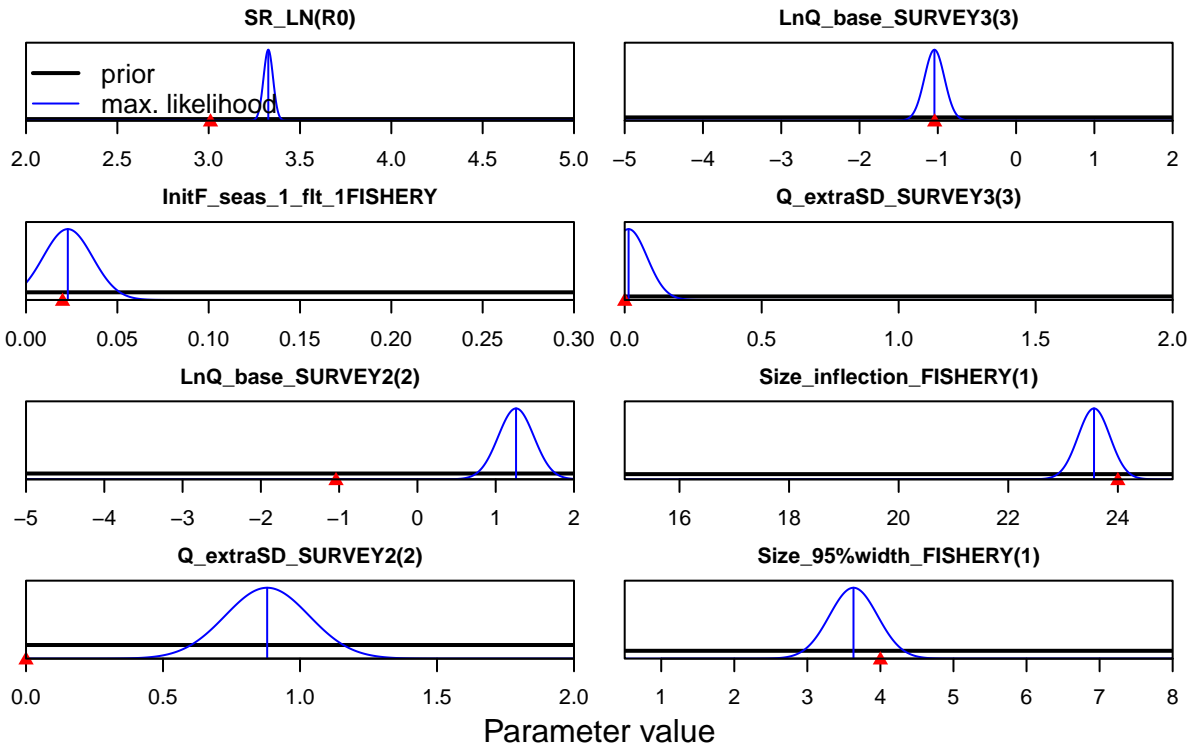
Surplus production (mt)



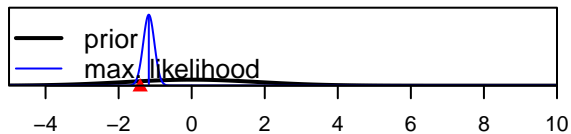








$\ln(\text{DM\_theta})_1$



Density

Parameter value