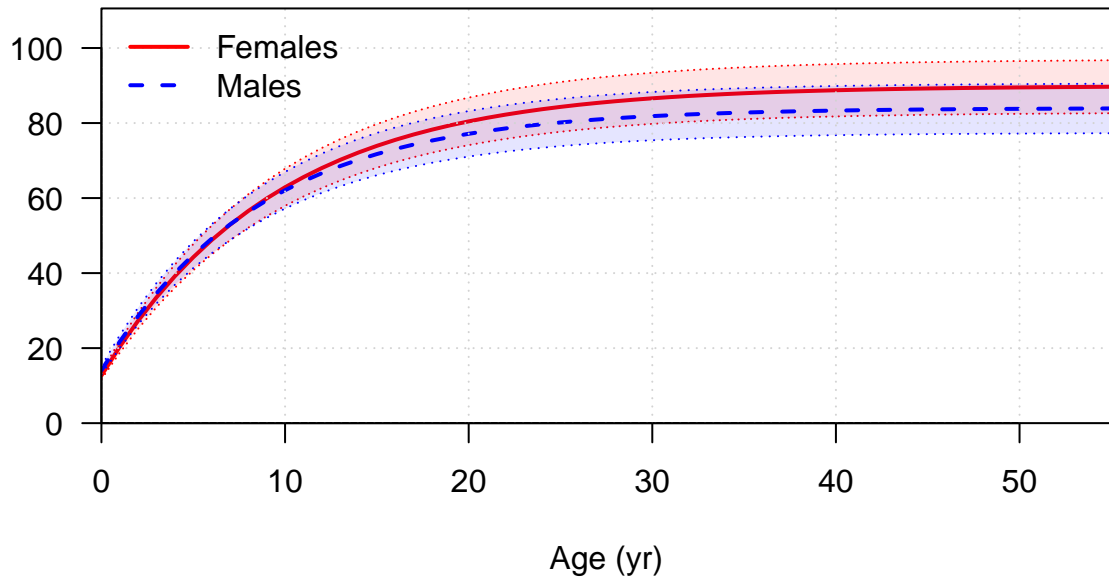
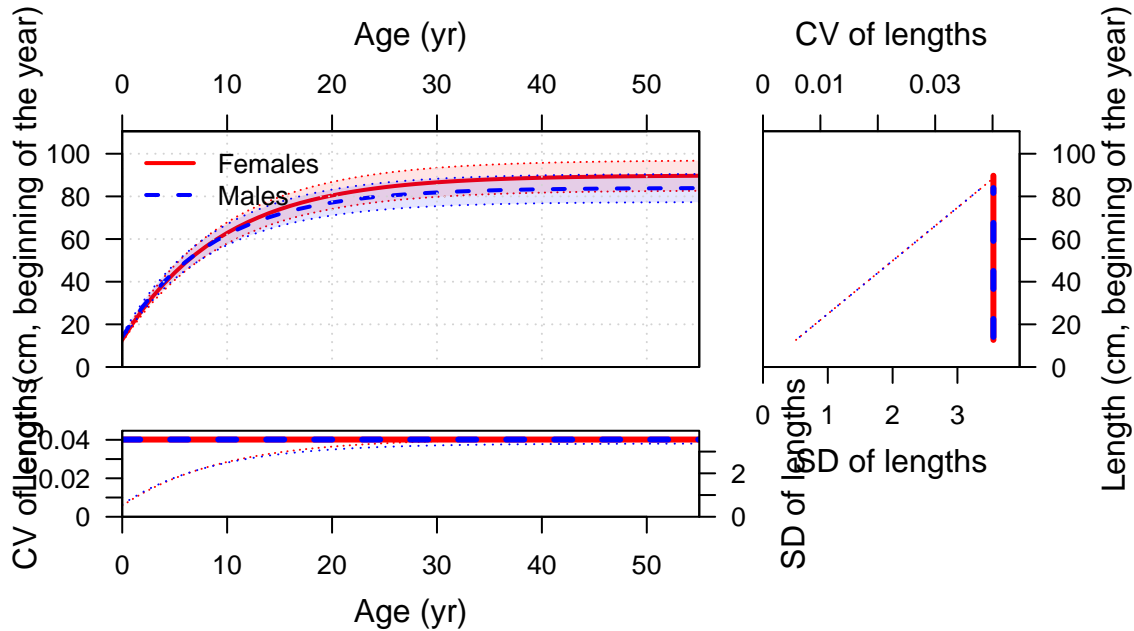
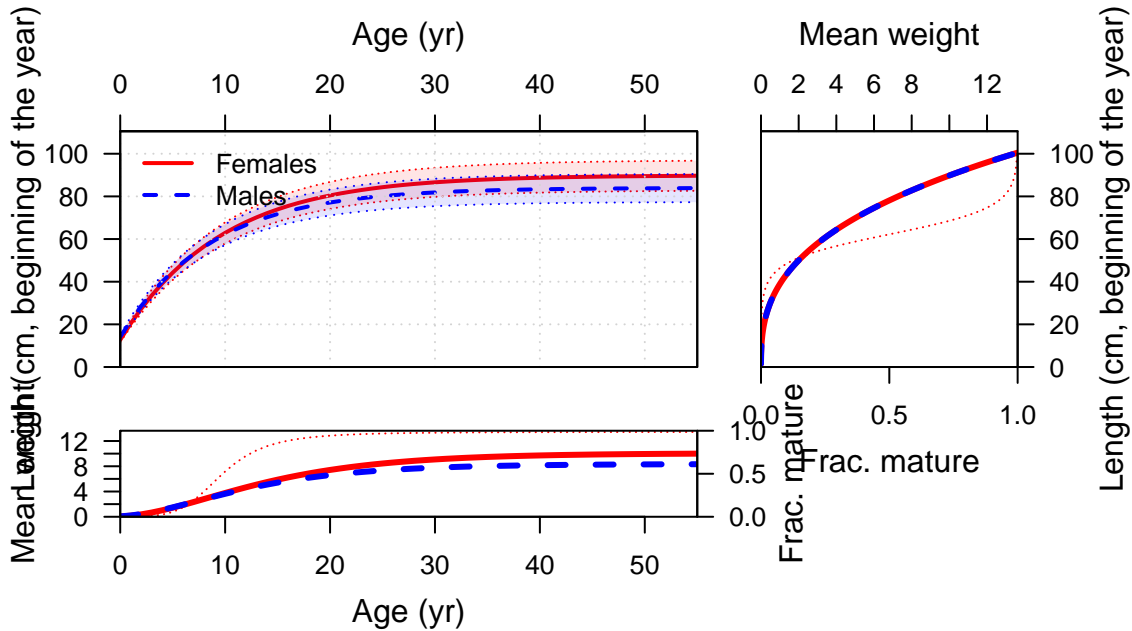


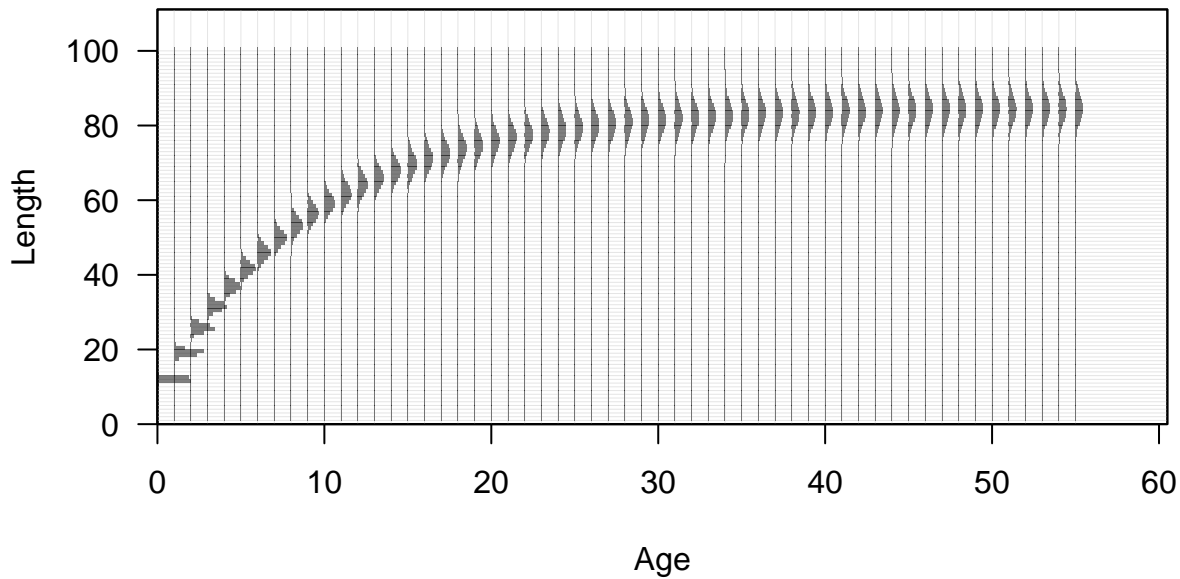
Plots created using the 'r4ss' package in R  
Stock Synthesis version: 3.30.19.0  
StartTime: Tue Feb 14 09:38:47 2023  
Data\_File: data.ss  
Control\_File: control.ss

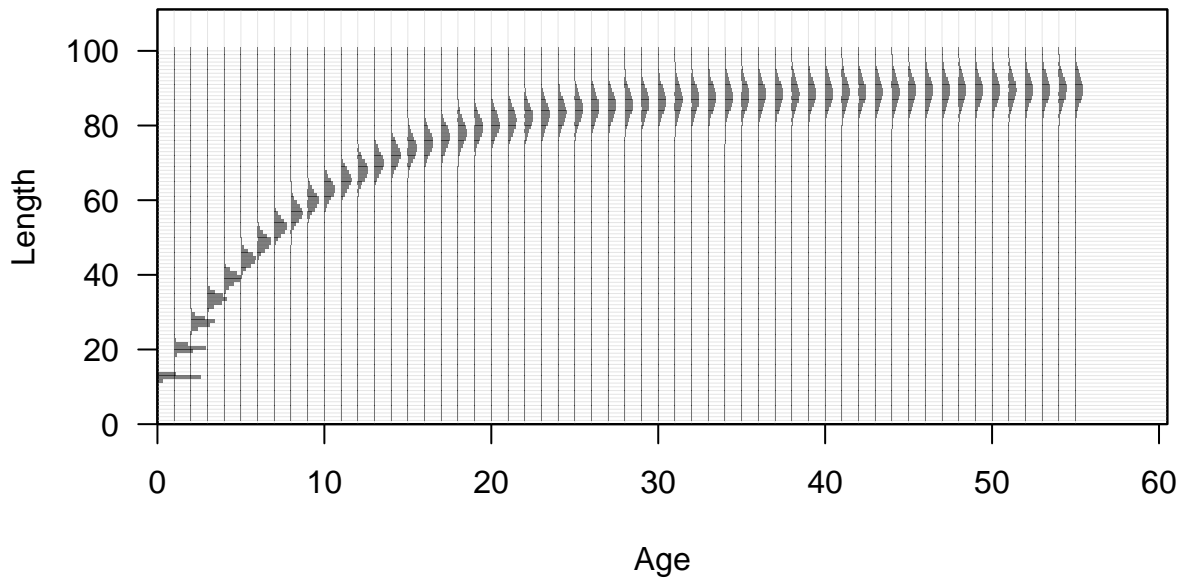
Length (cm, beginning of the year)

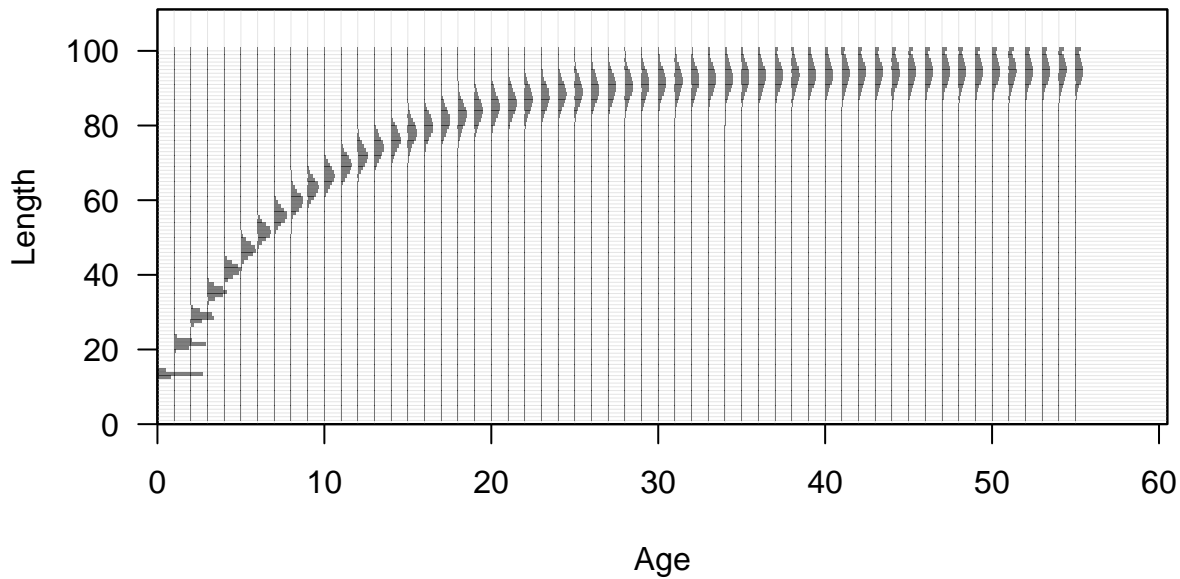


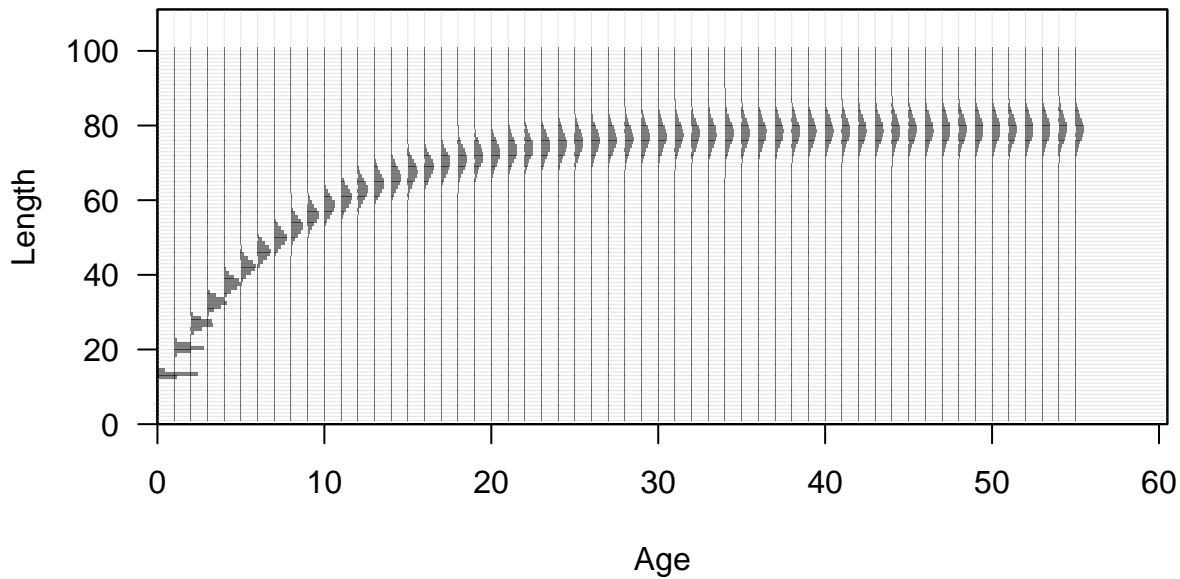




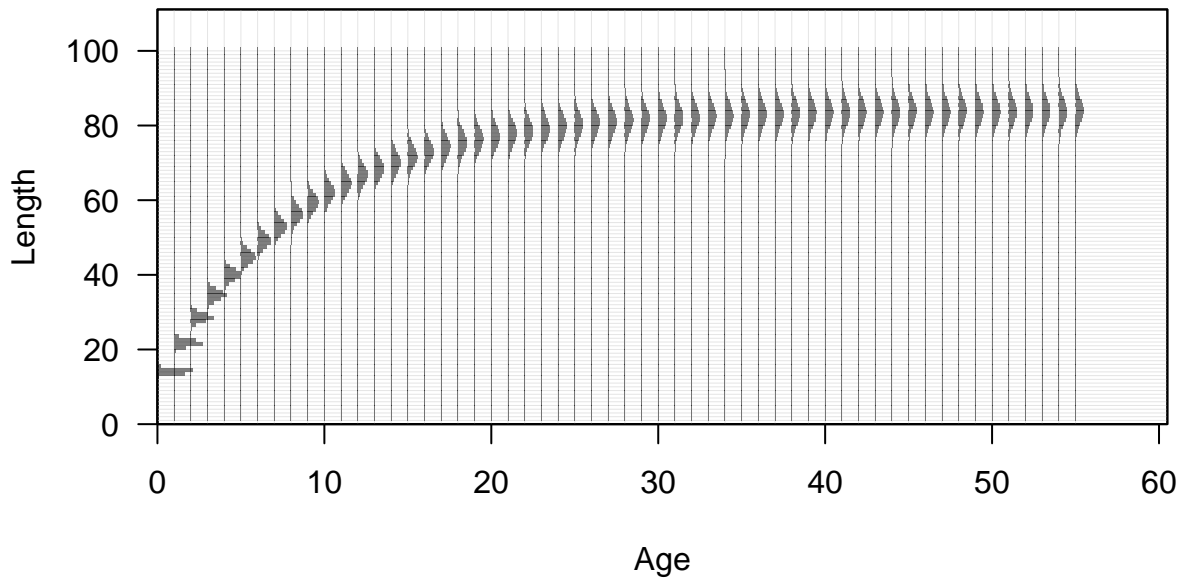


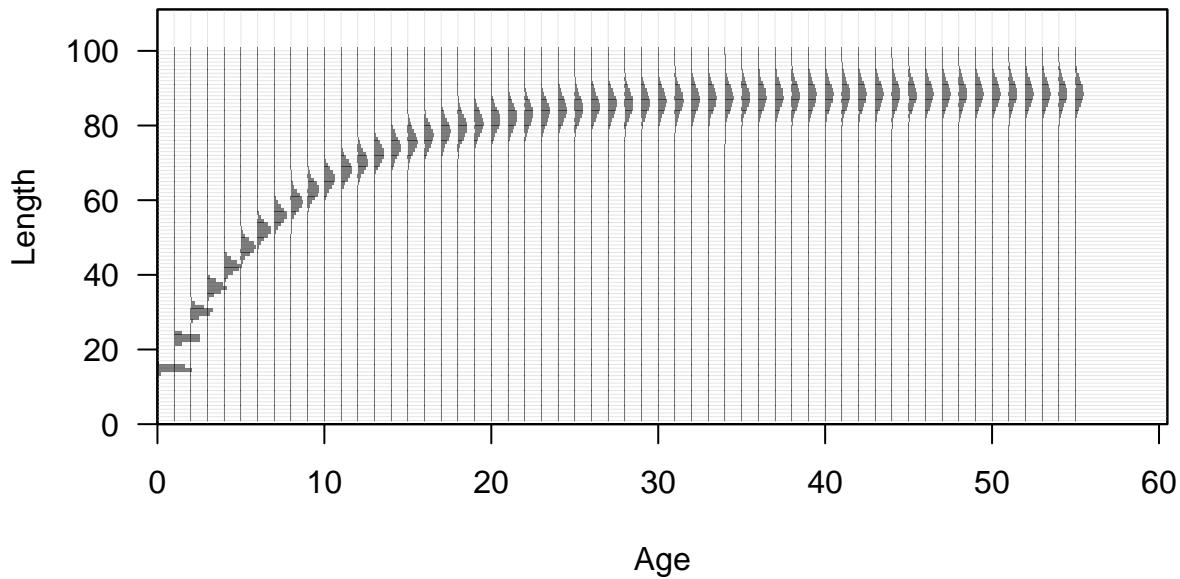


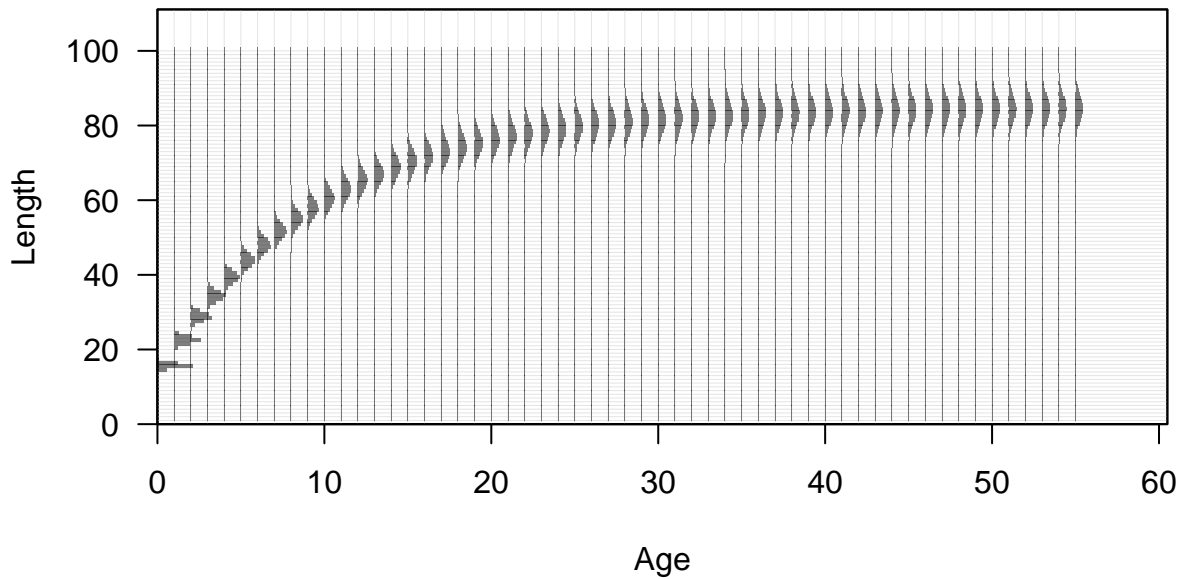


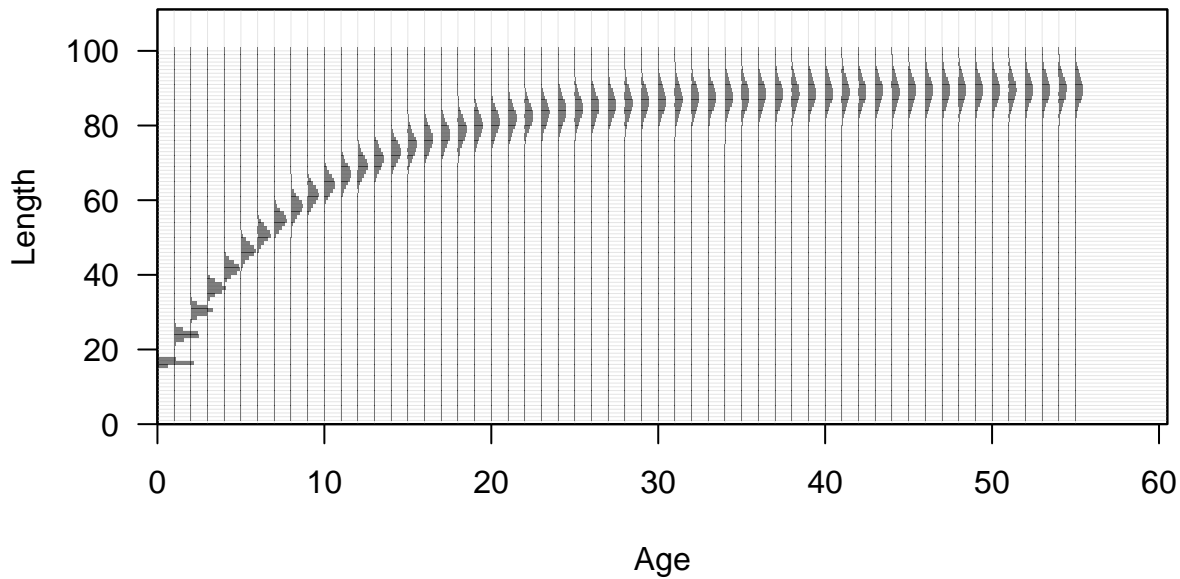


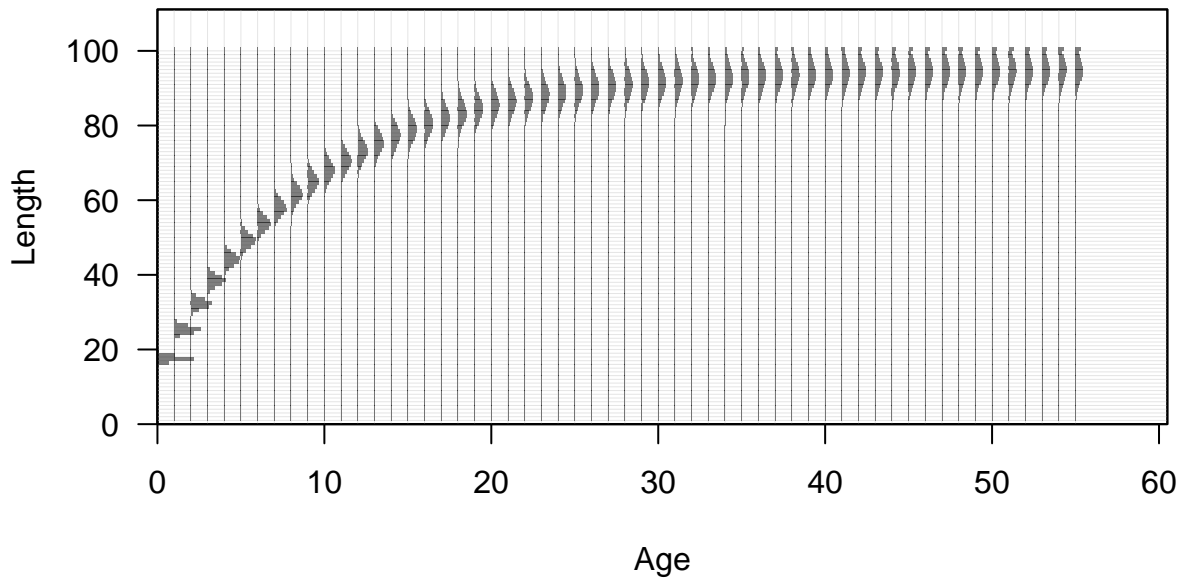


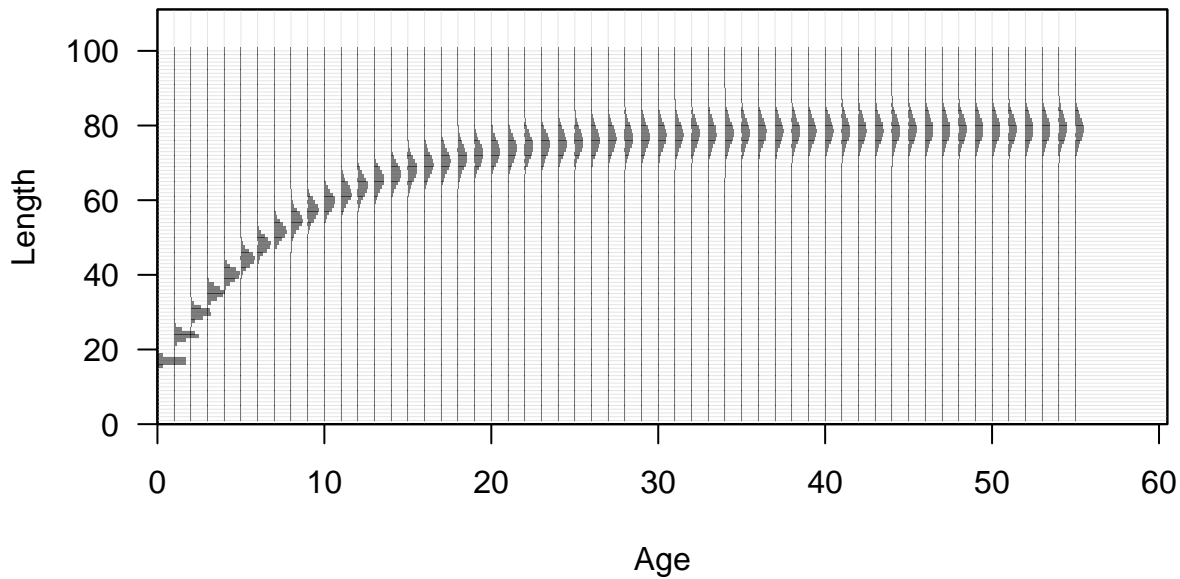


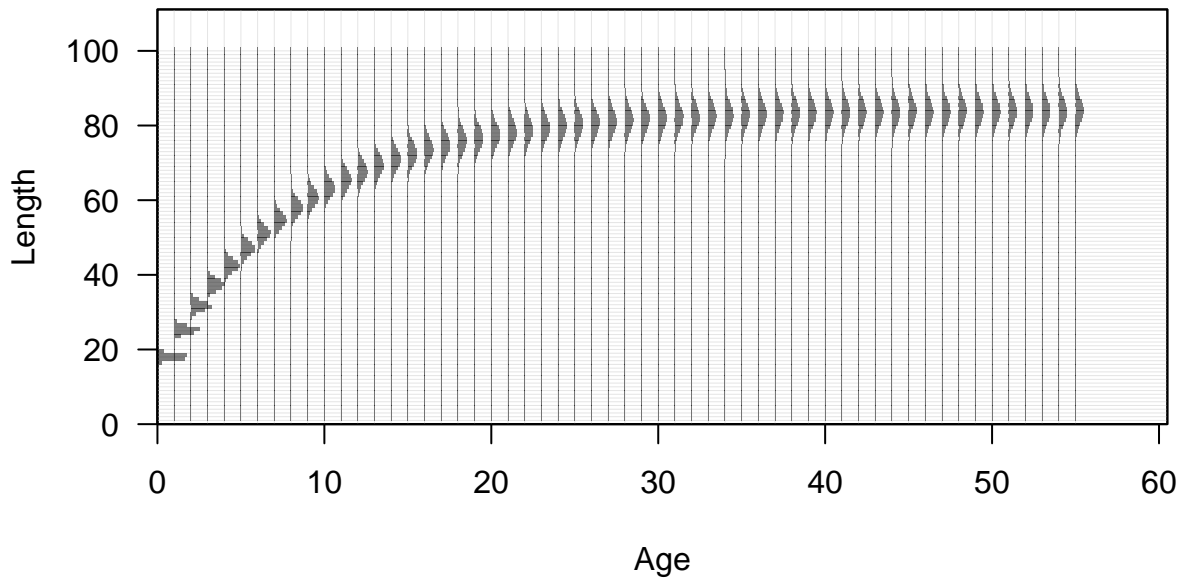


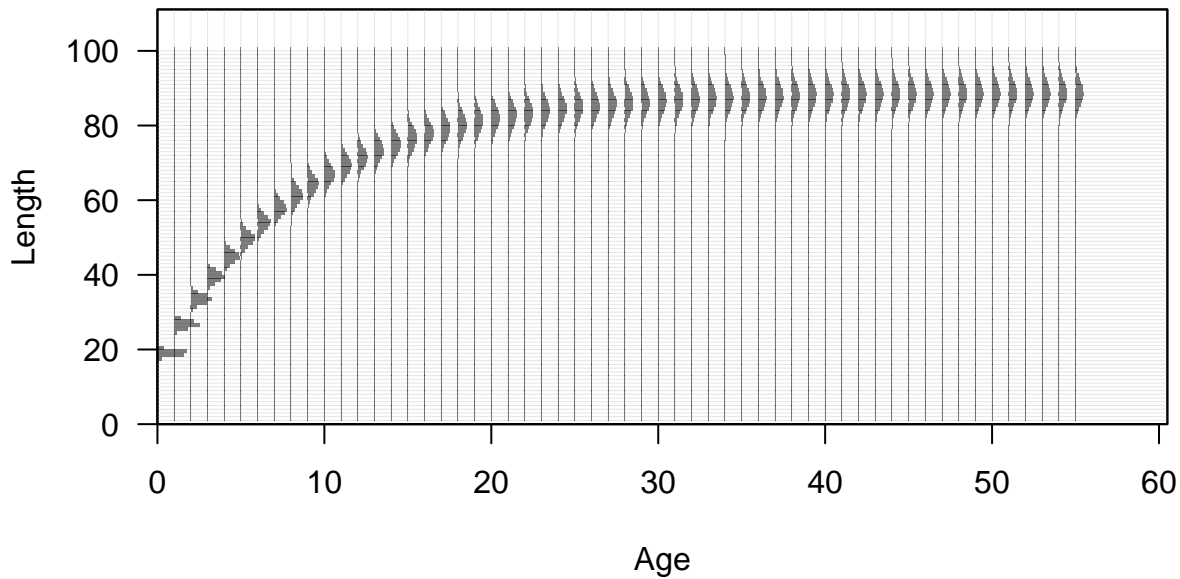




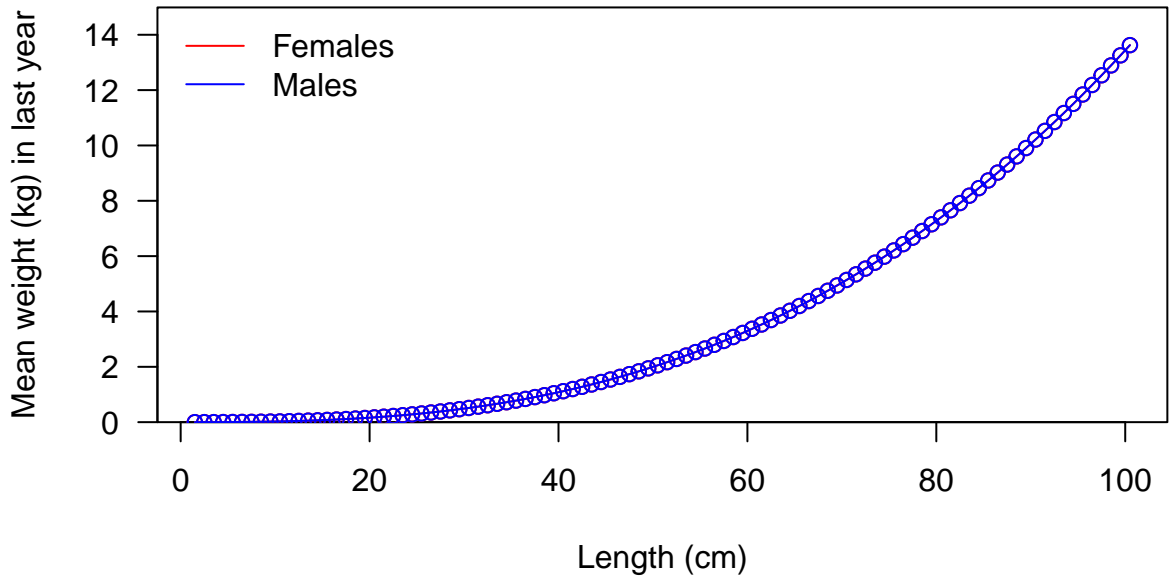


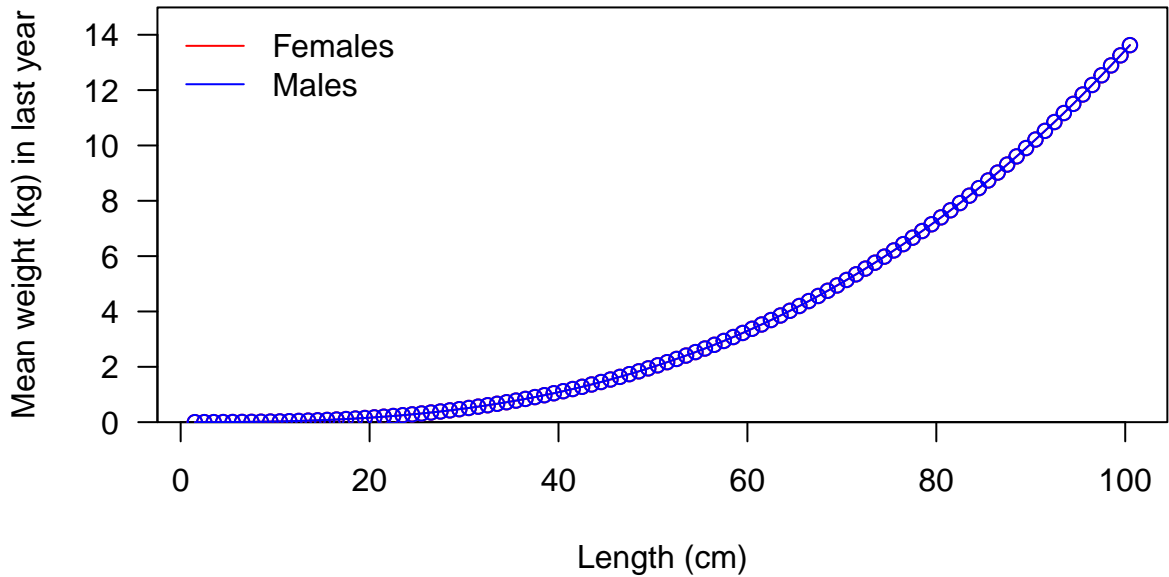


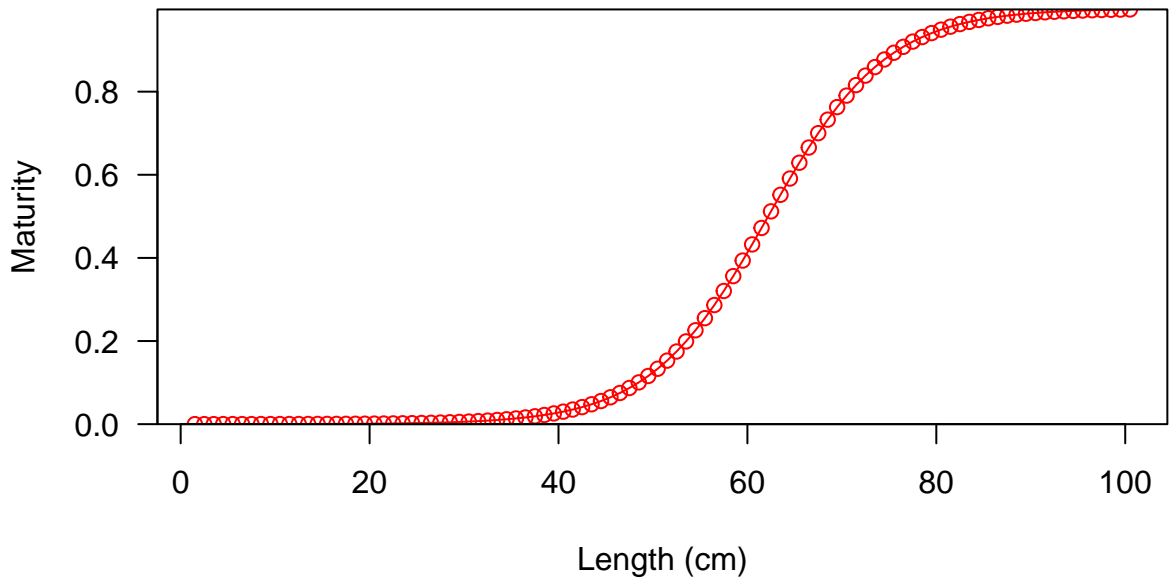


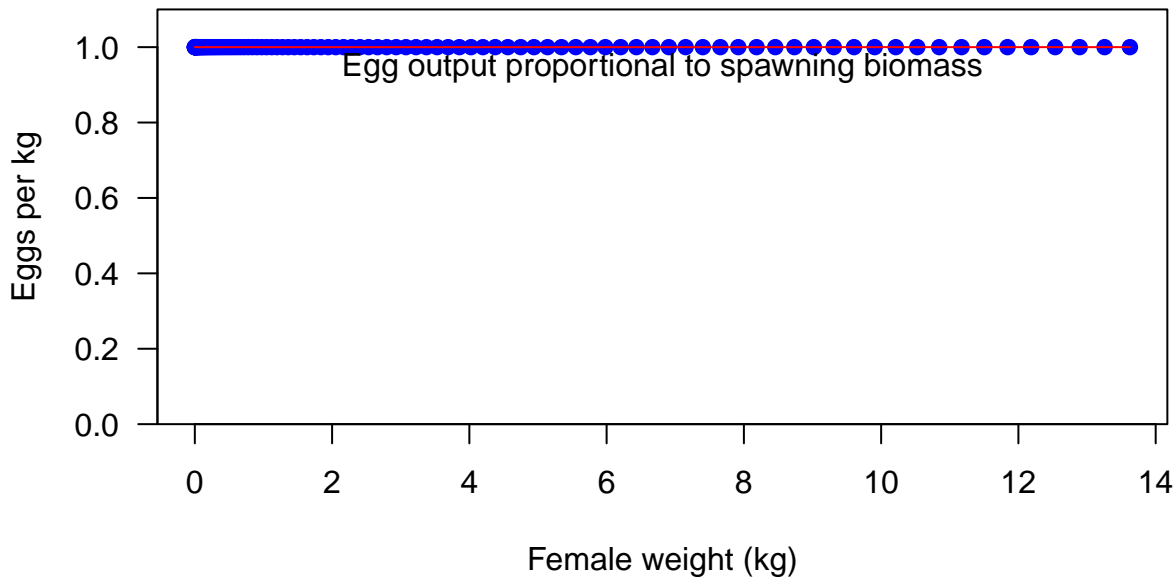




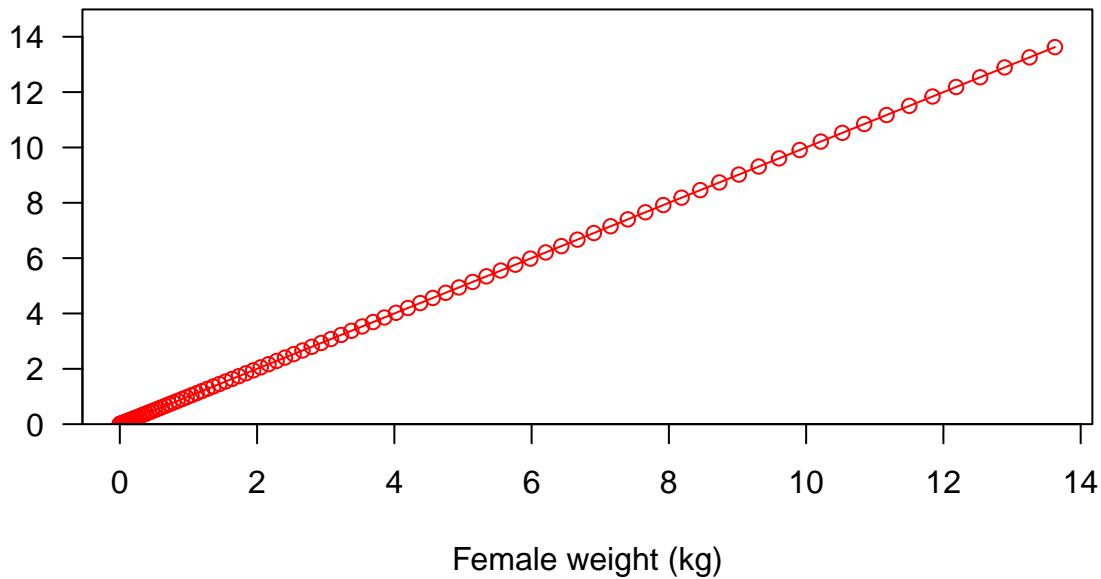




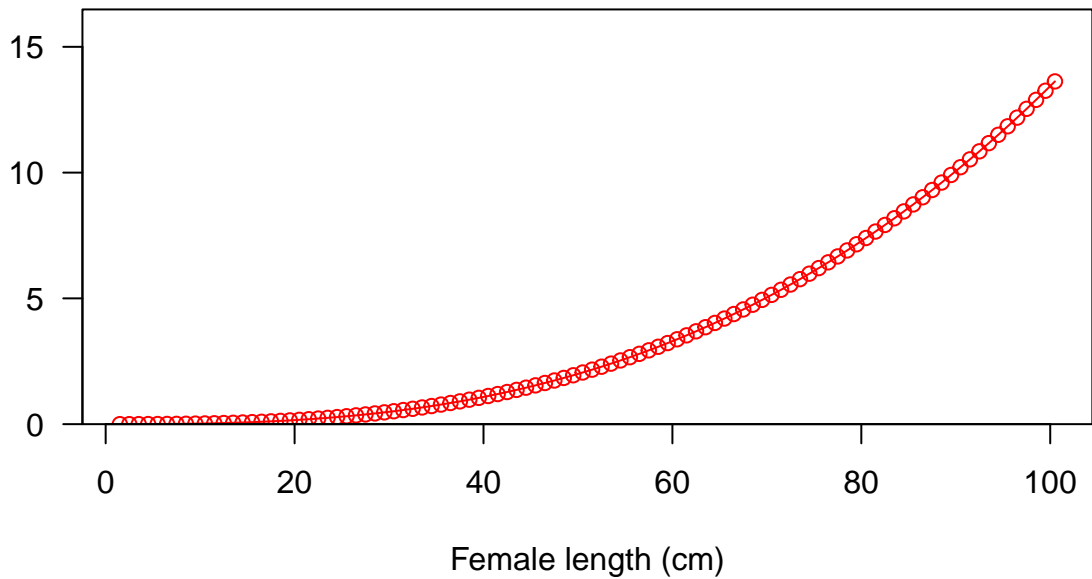




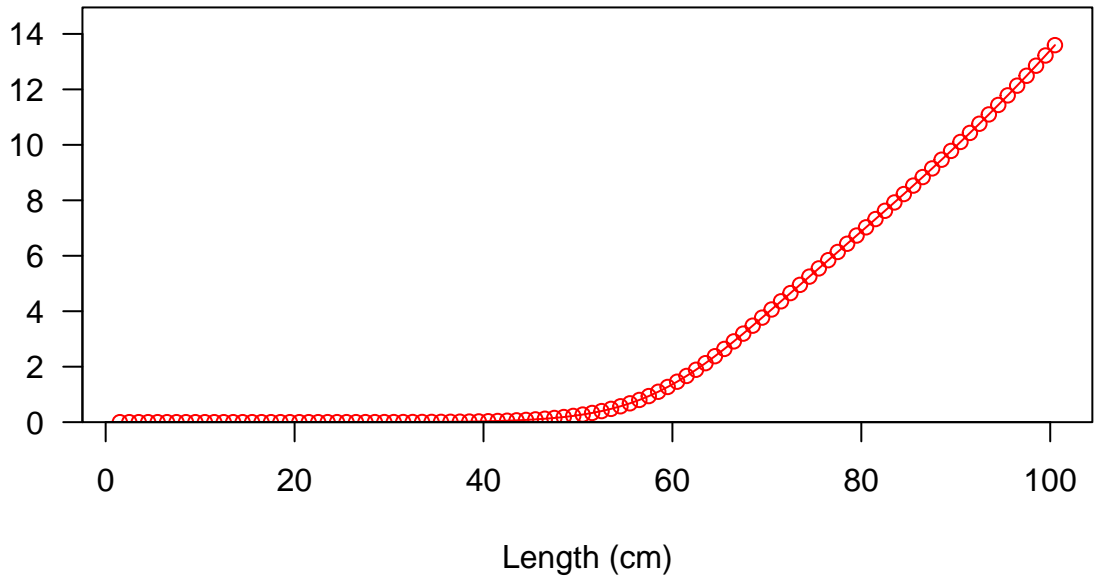
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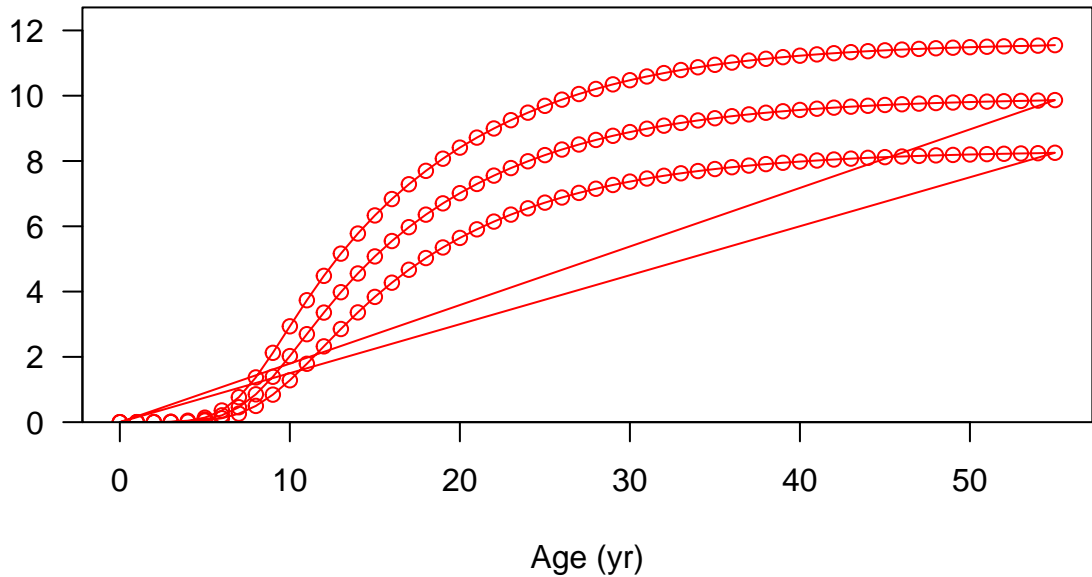
Fecundity



Spawning output

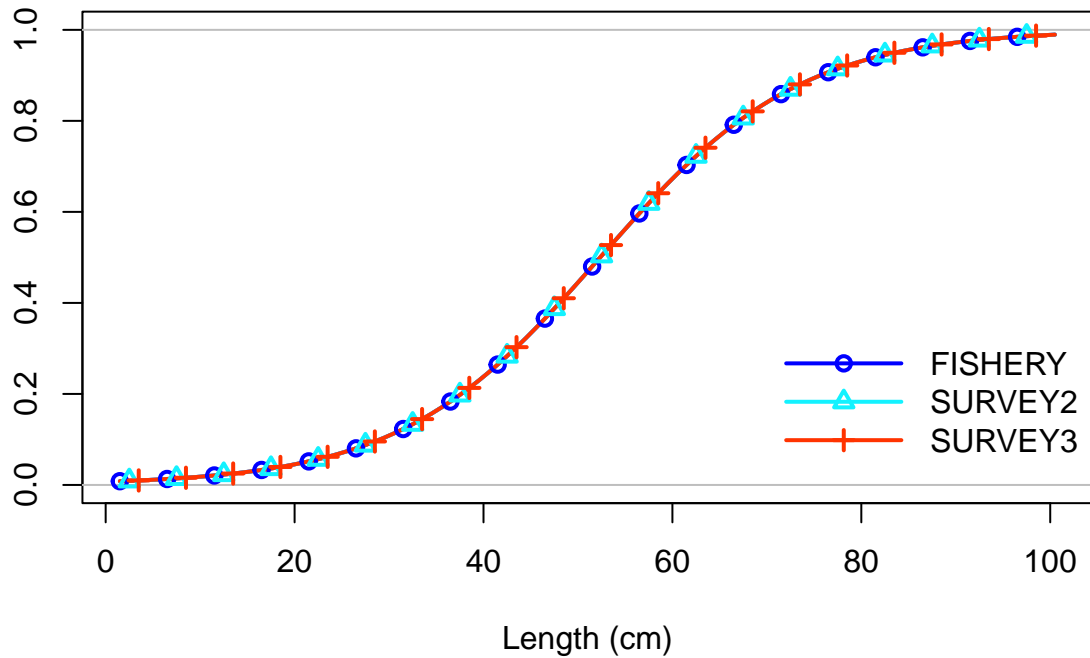


Spawning output

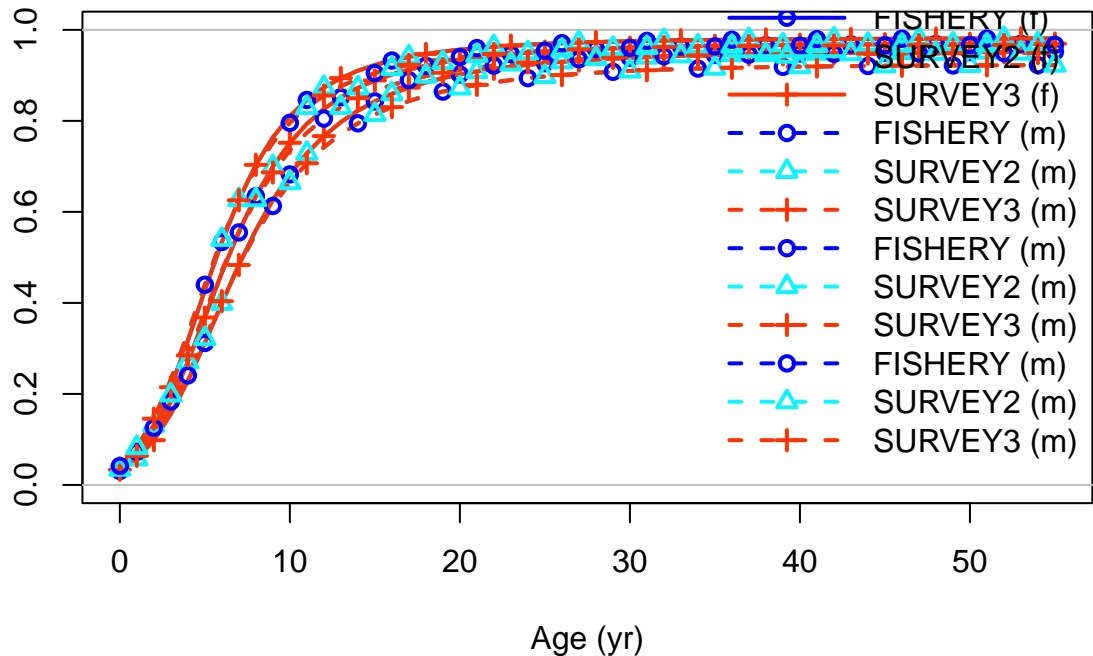




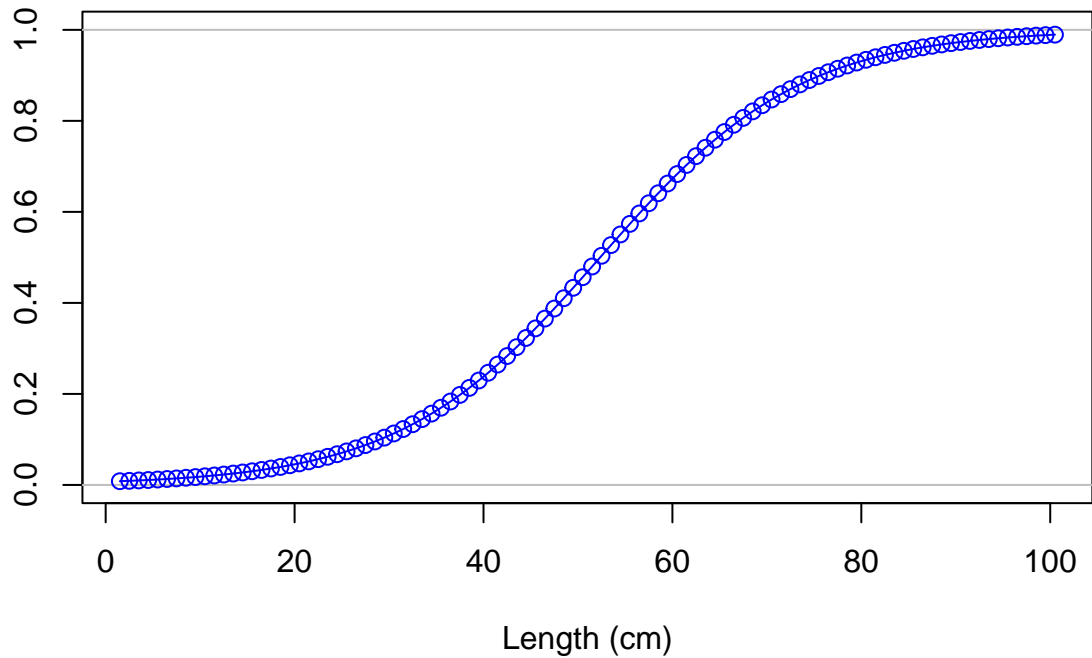
Selectivity



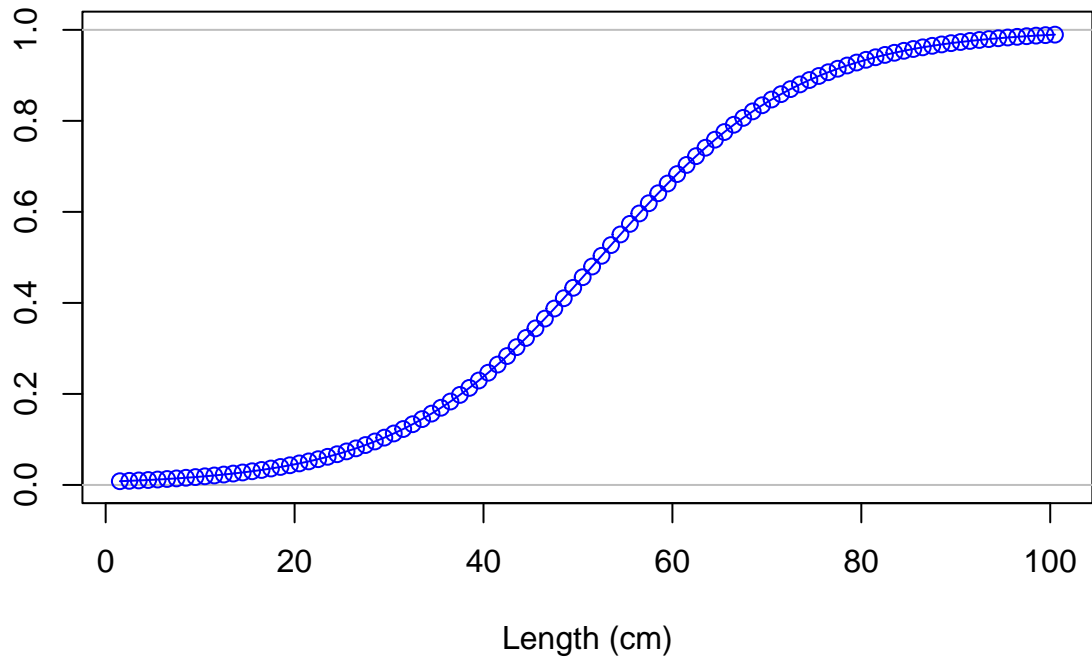
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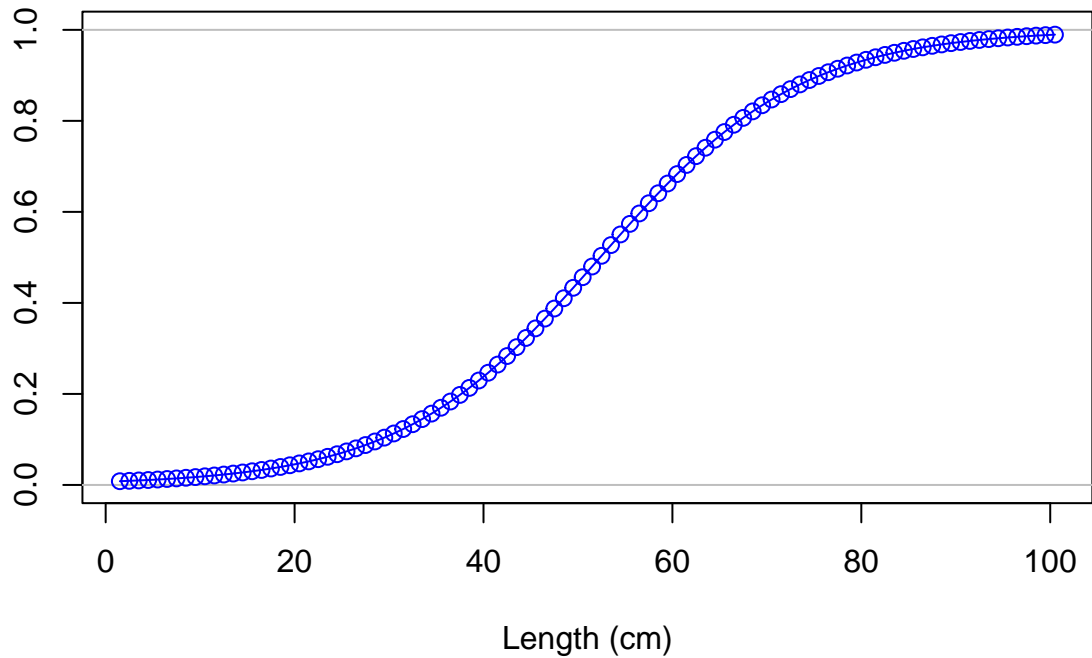
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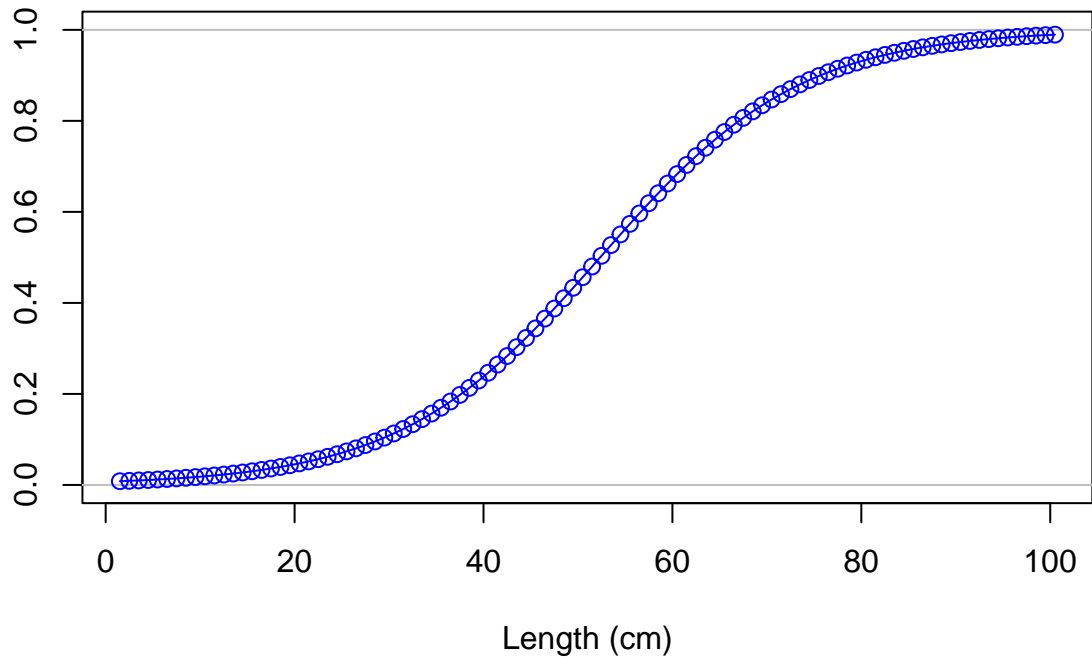
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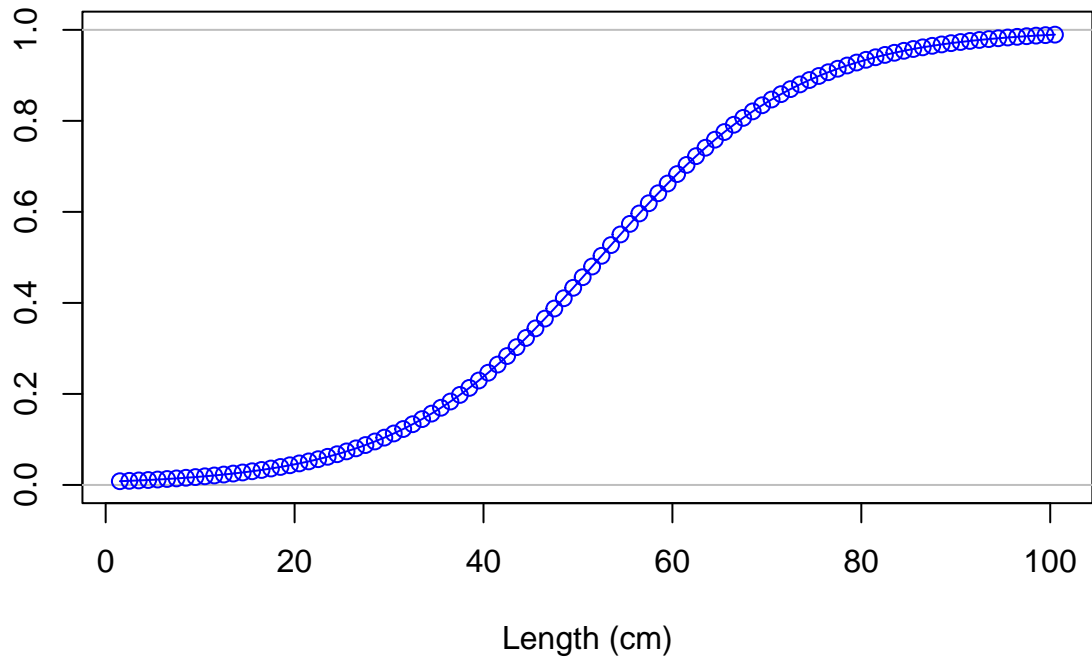
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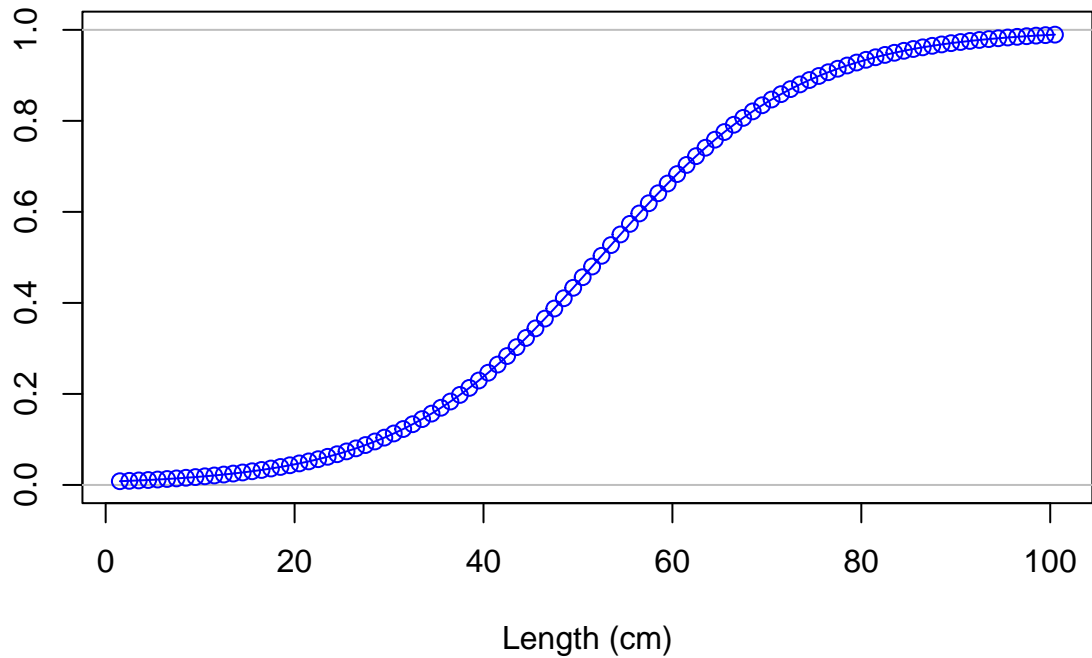
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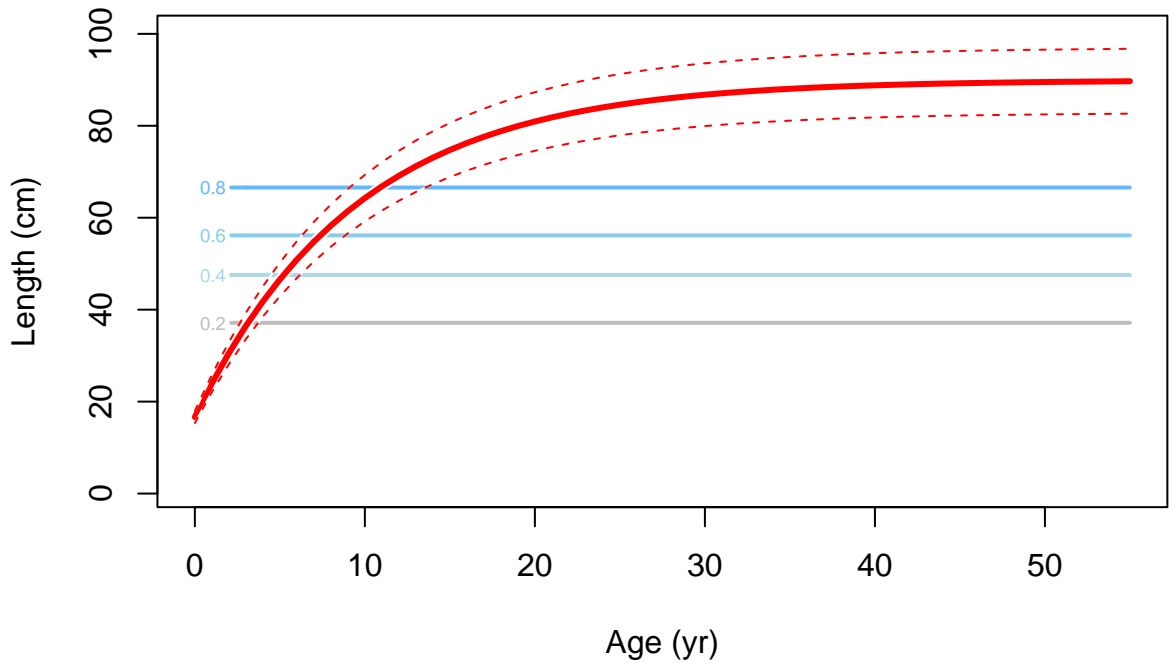
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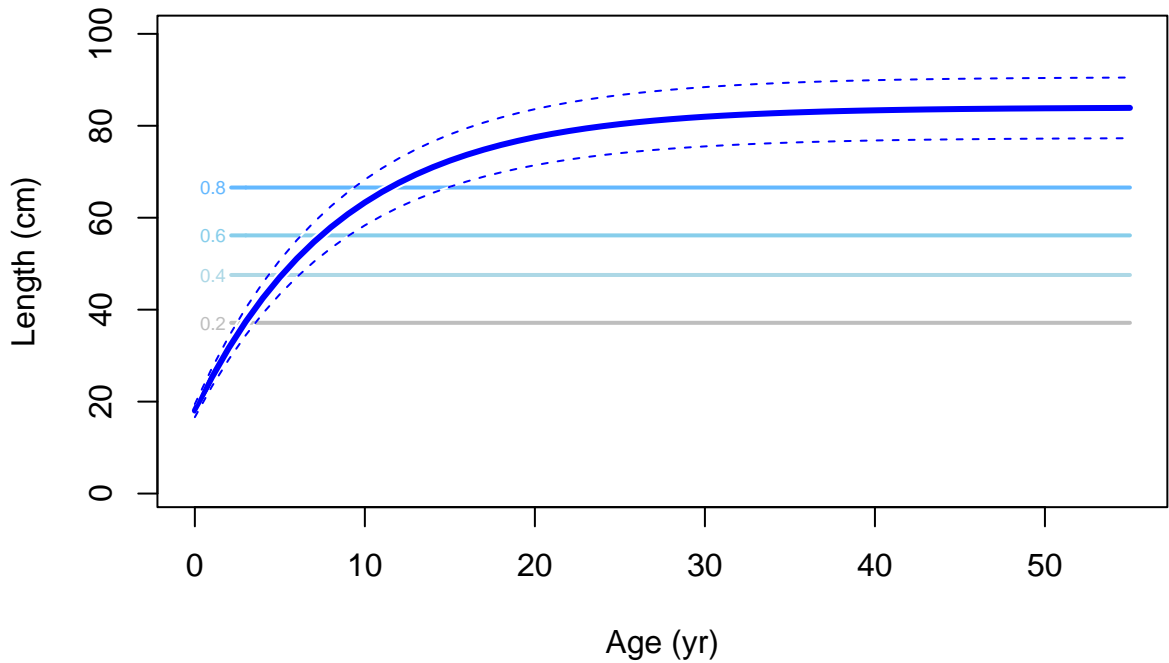


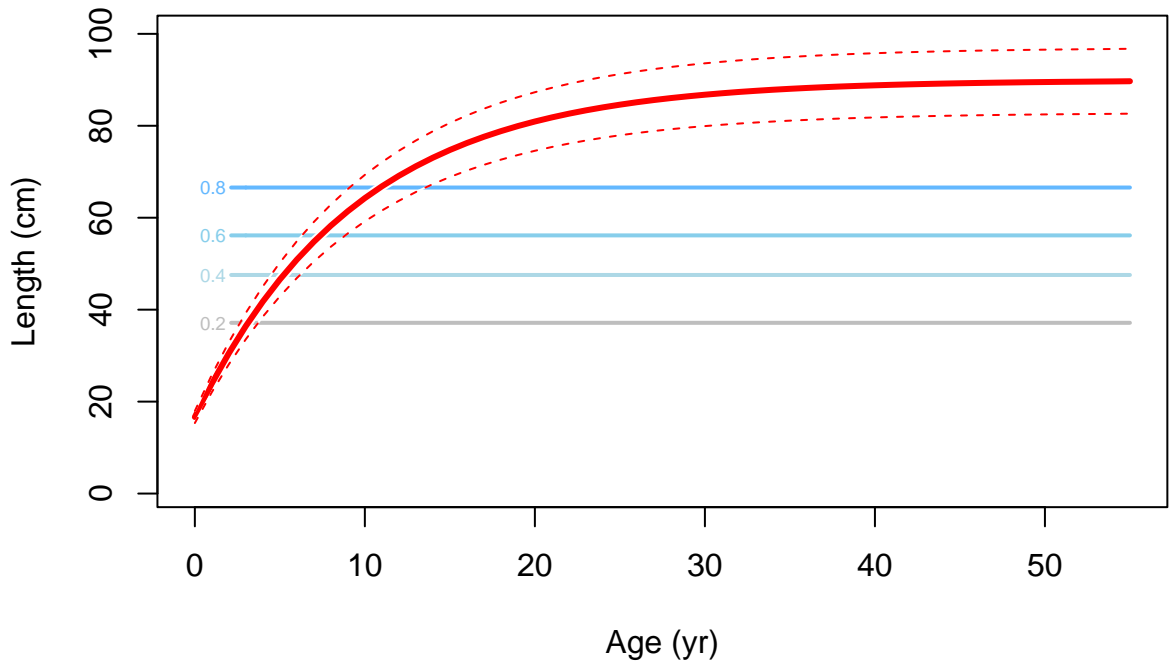
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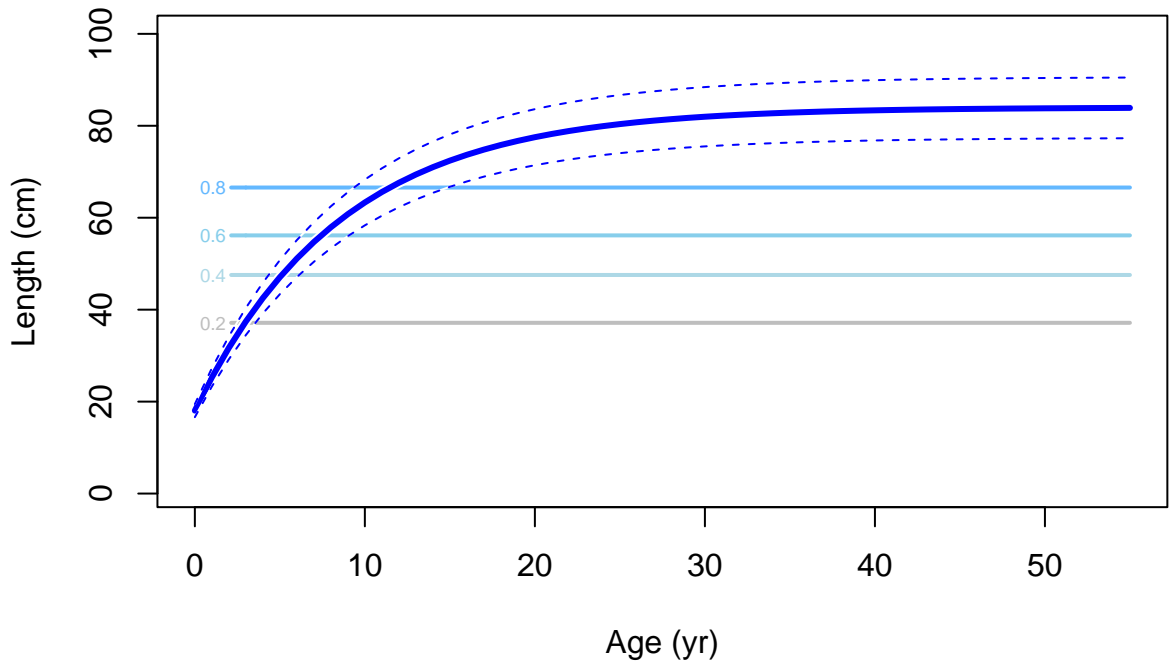


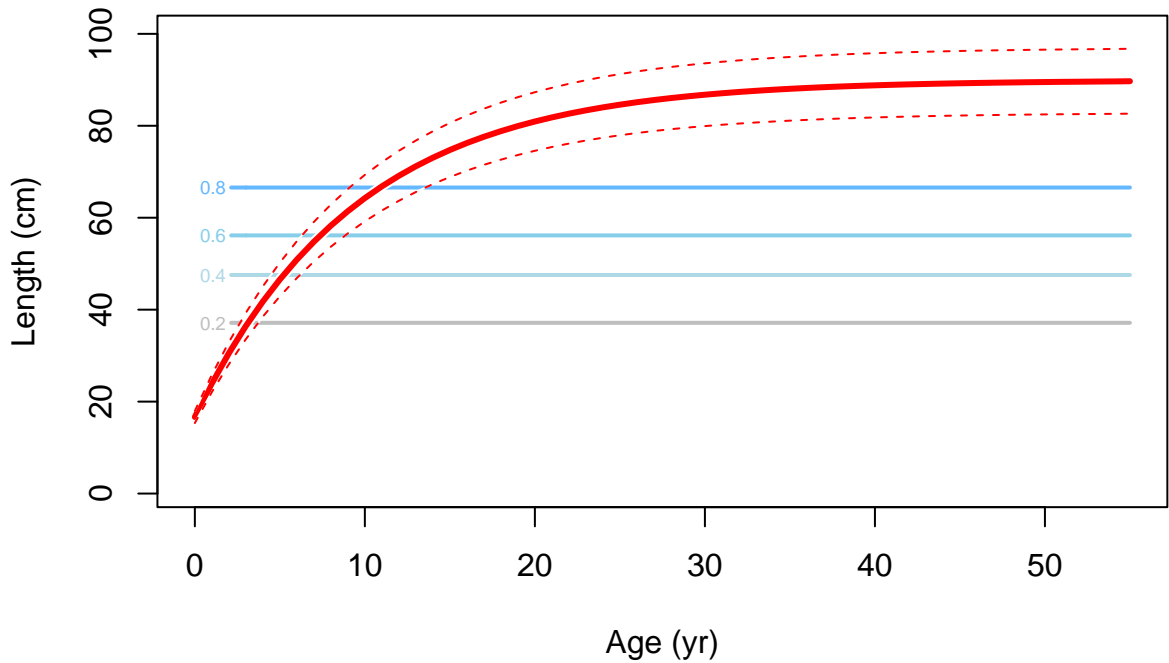


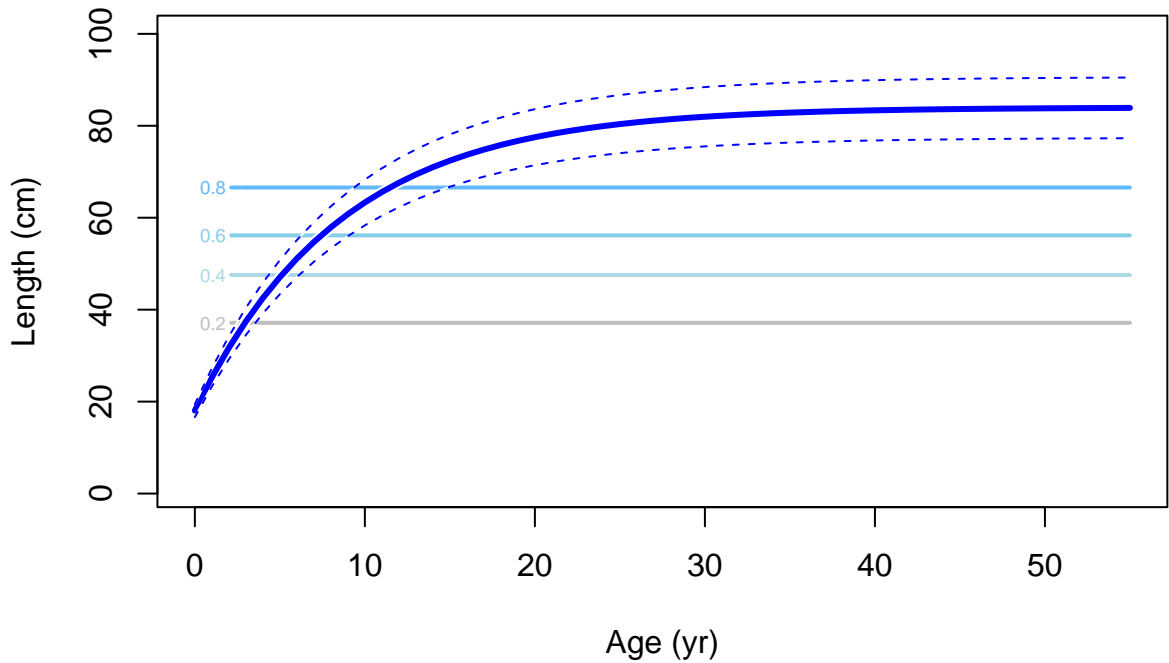


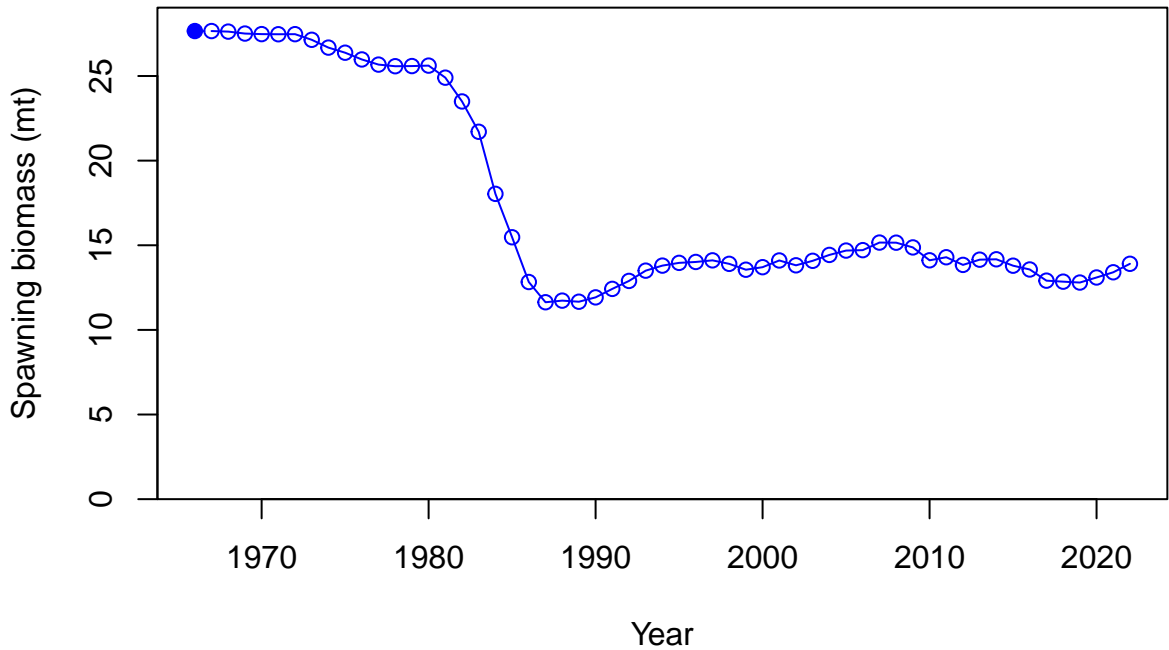




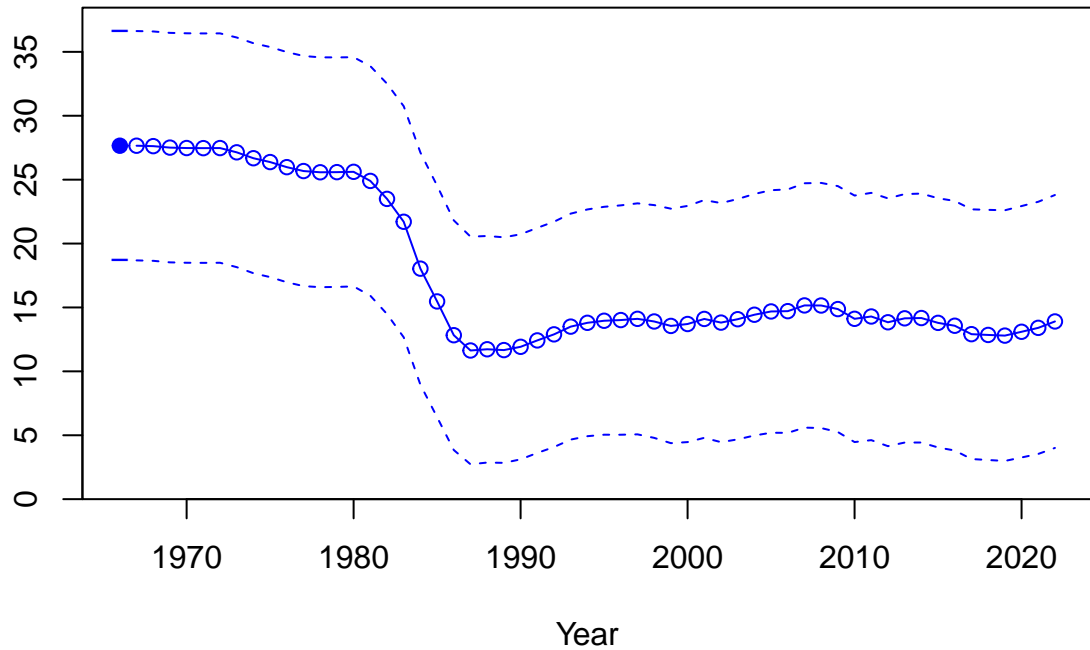






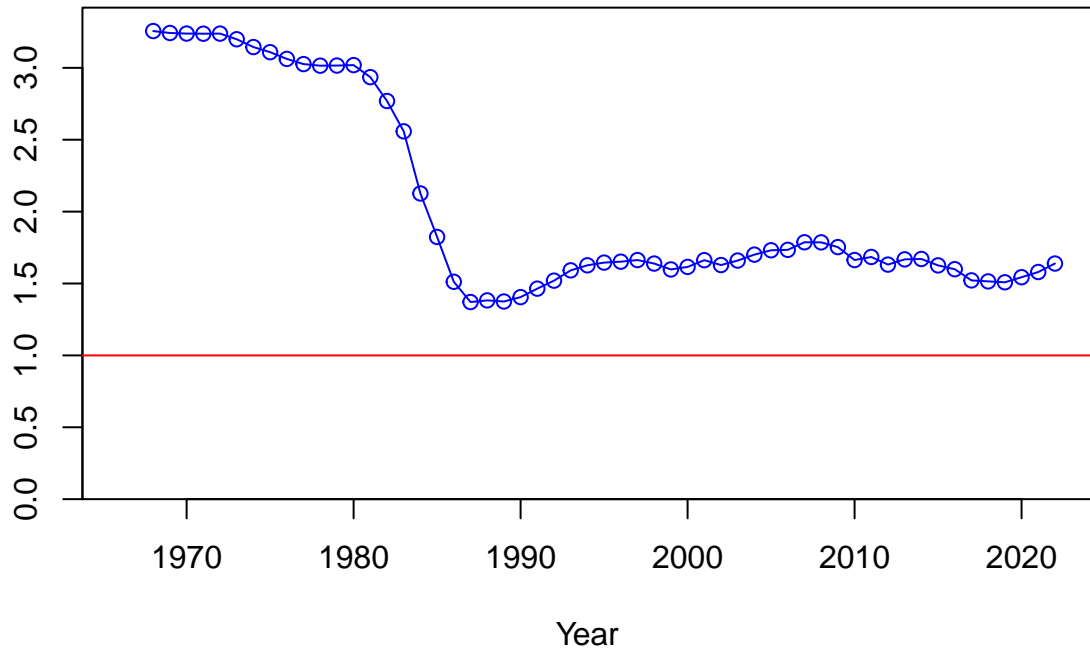


Spawning biomass (mt)

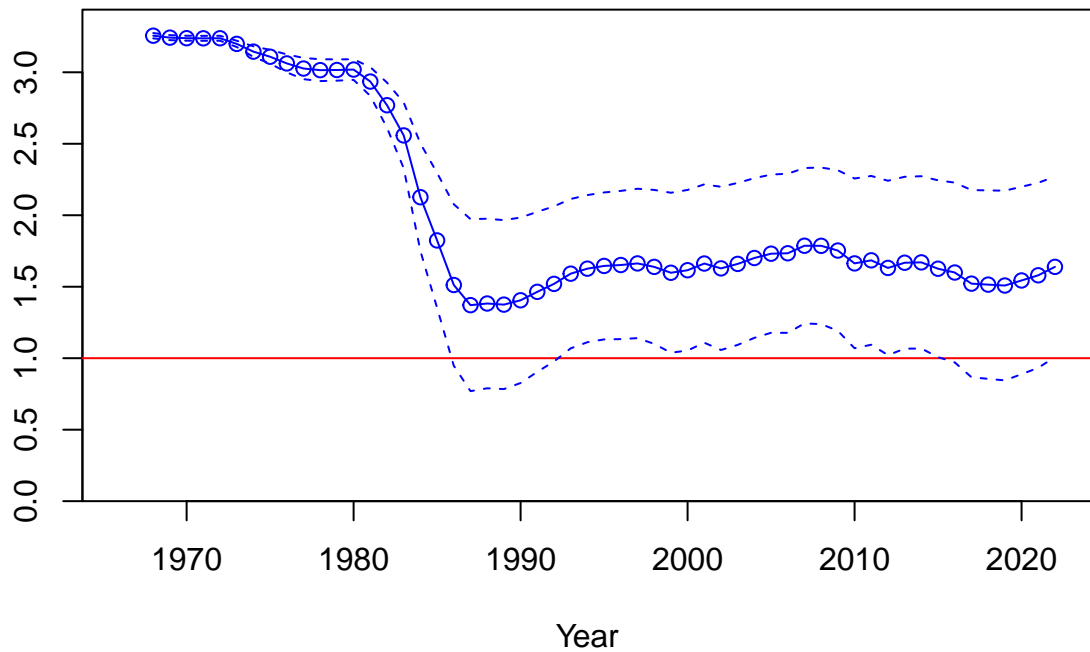


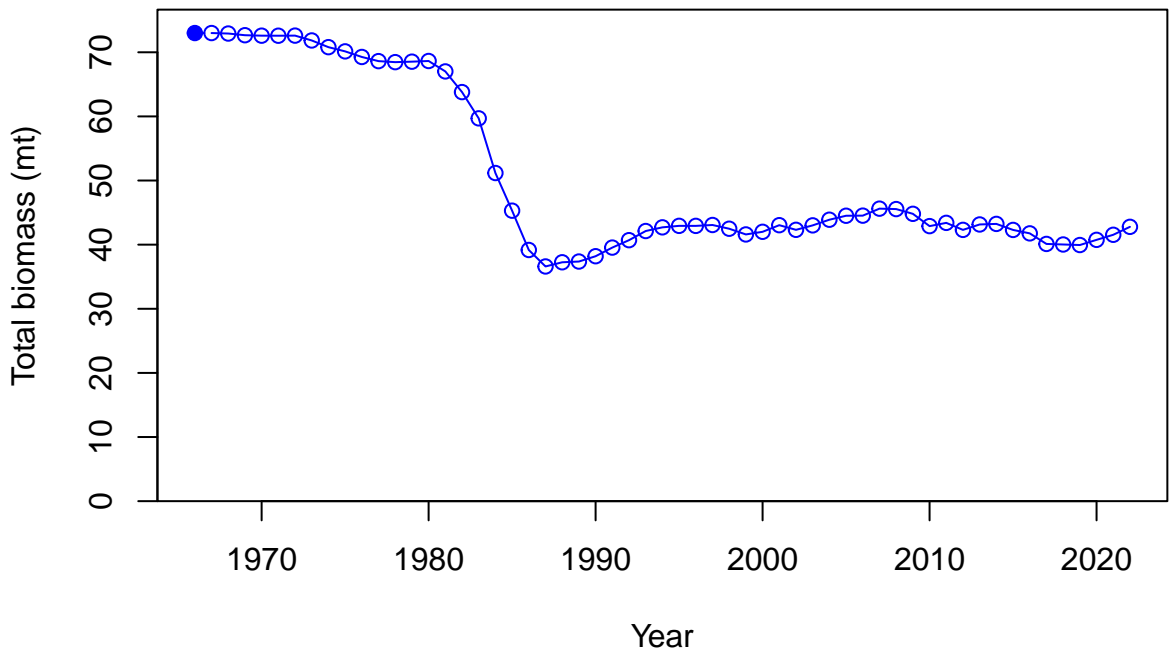


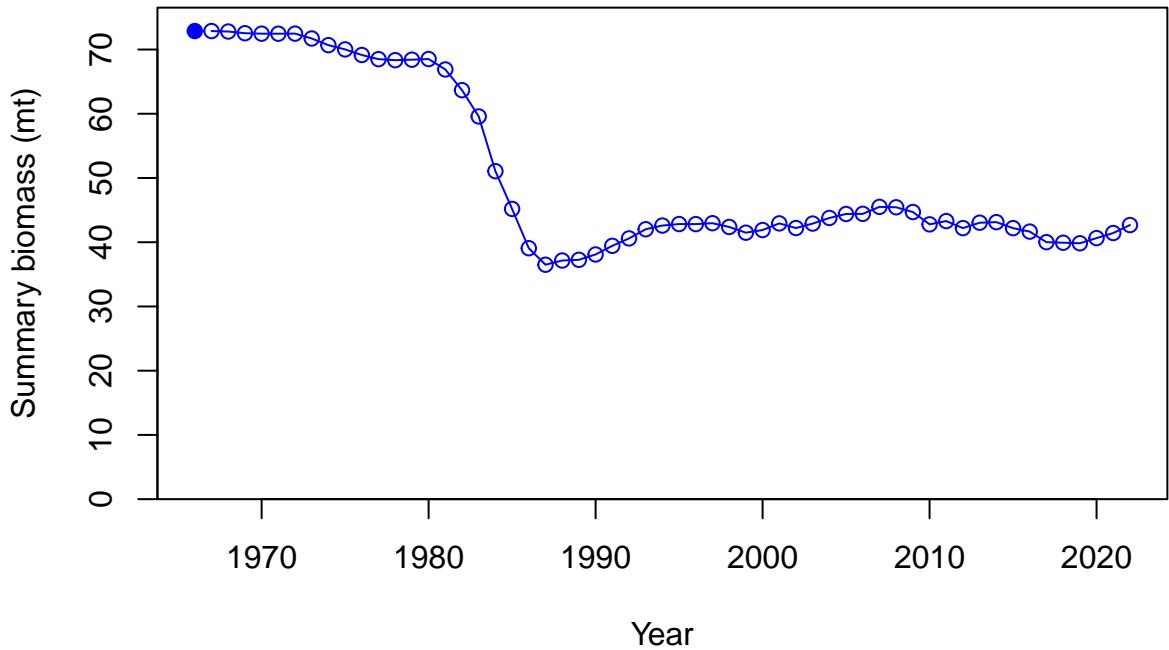
Relative spawning biomass:  $B/B_{MSY}$

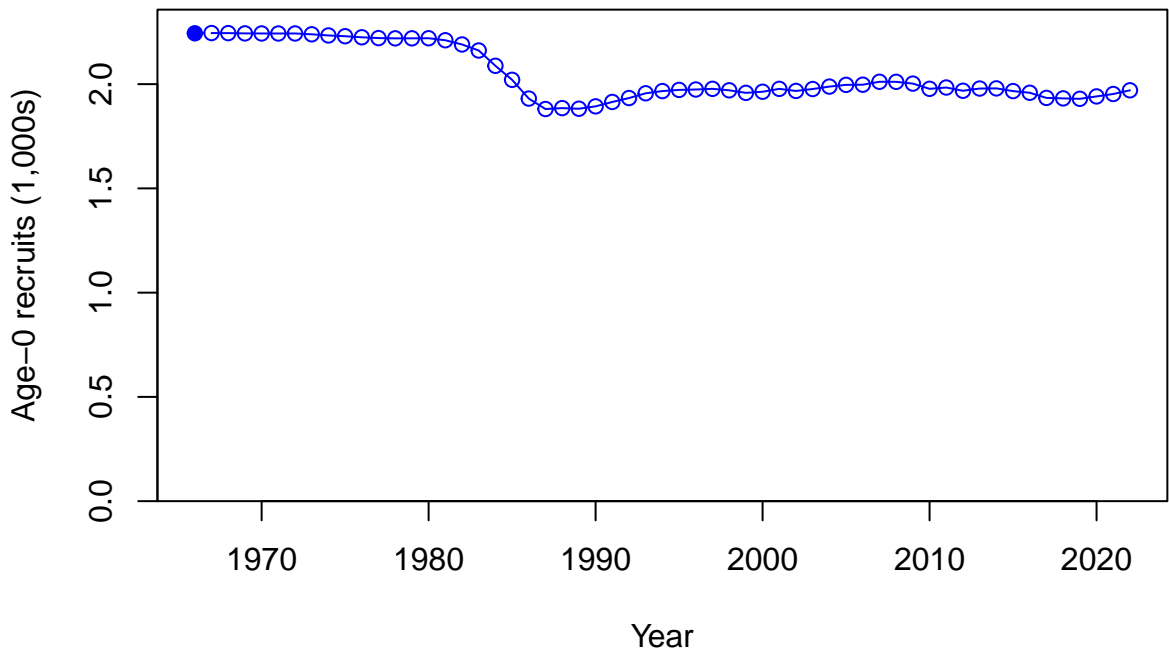


Relative spawning biomass:  $B/B_{MSY}$

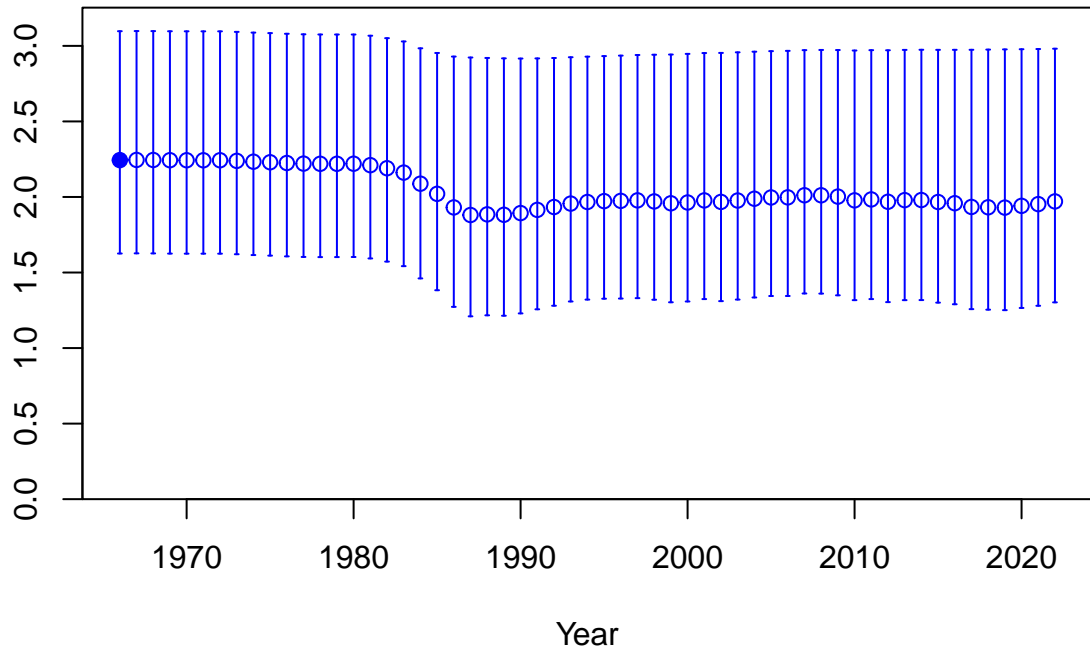




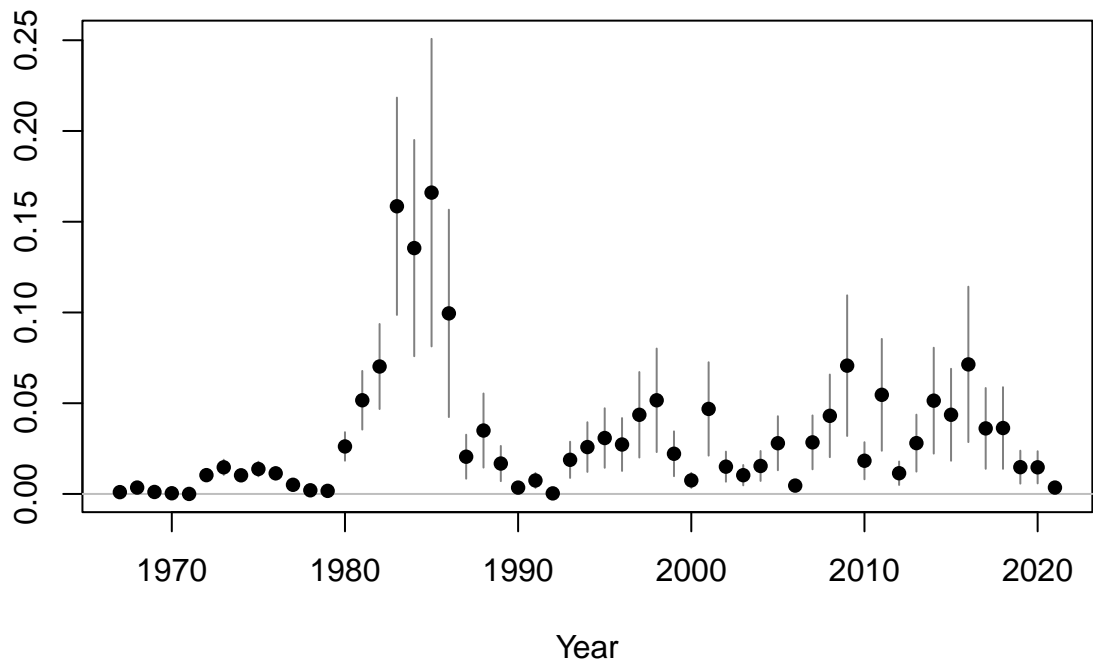


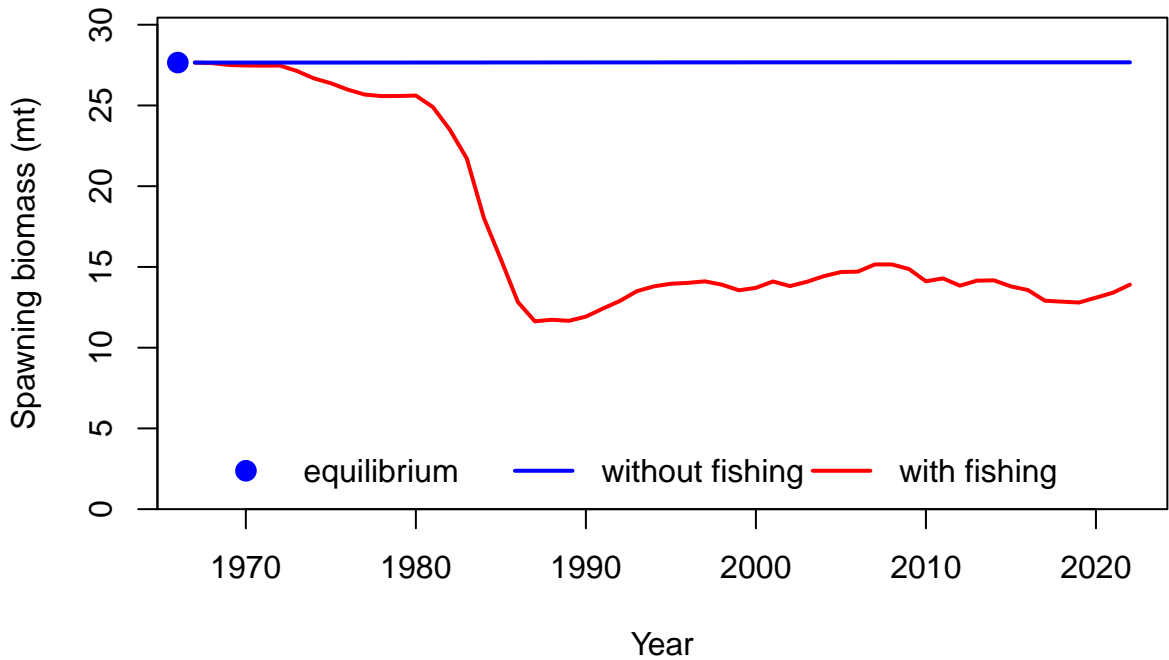


Age-0 recruits (1,000s)

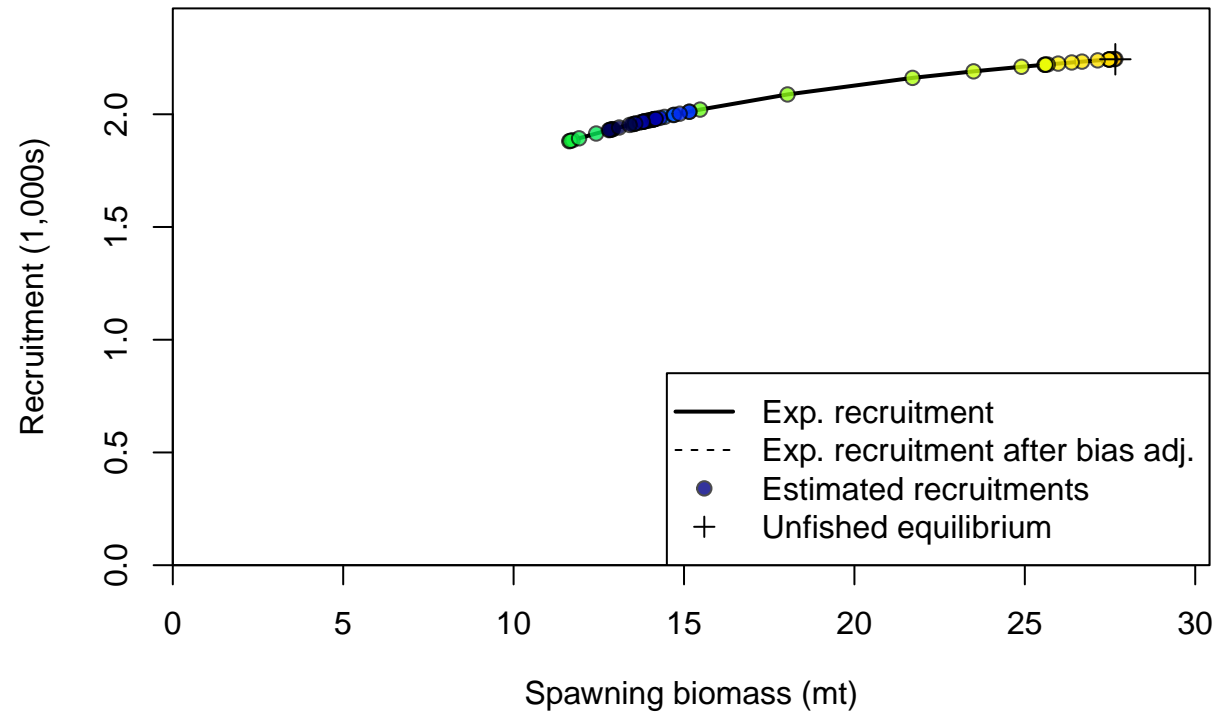


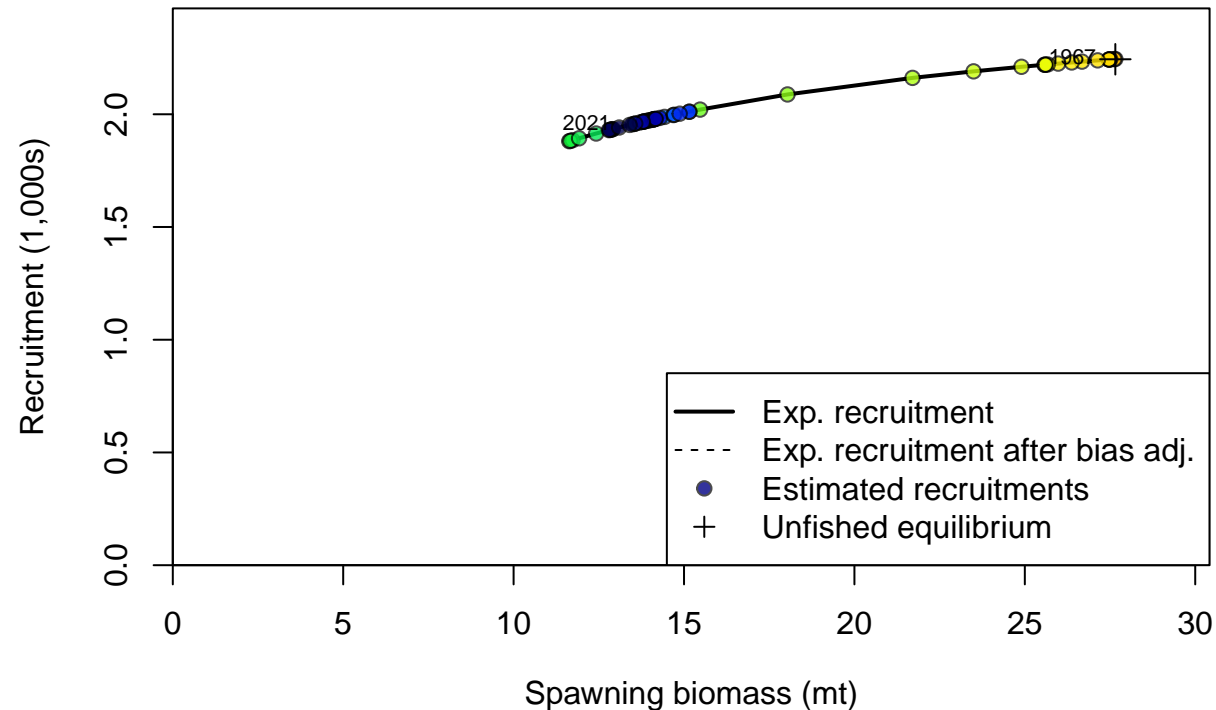
Summary Fishing Mortality

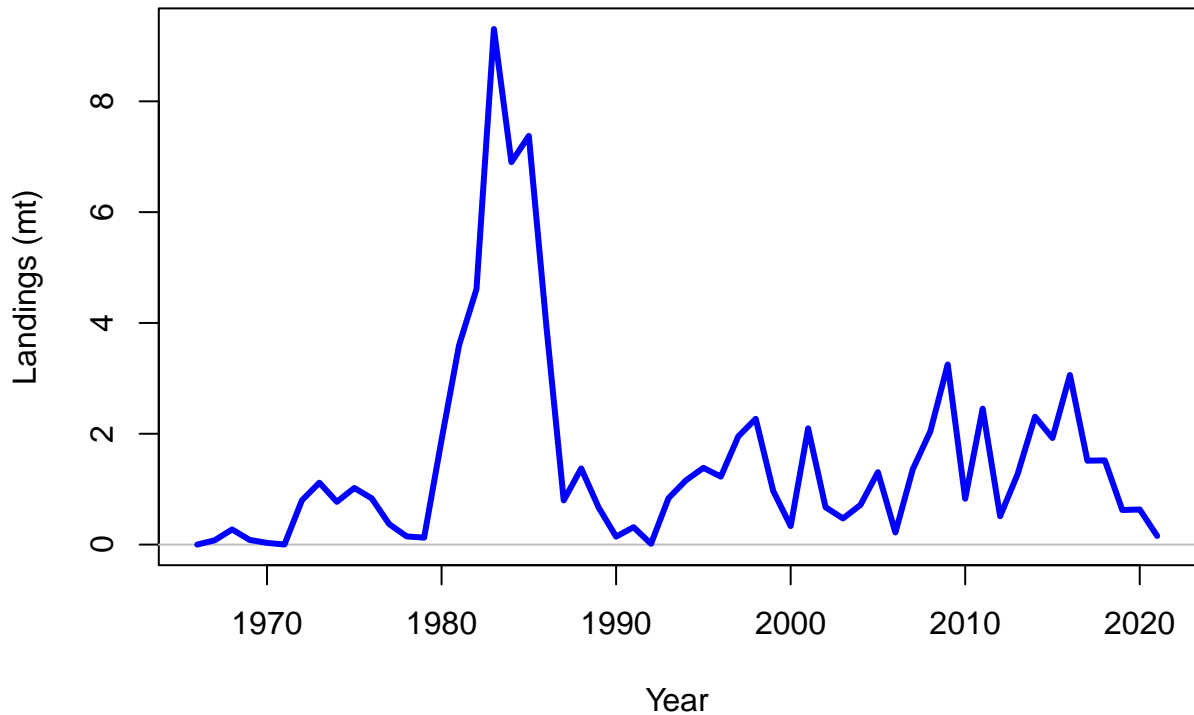




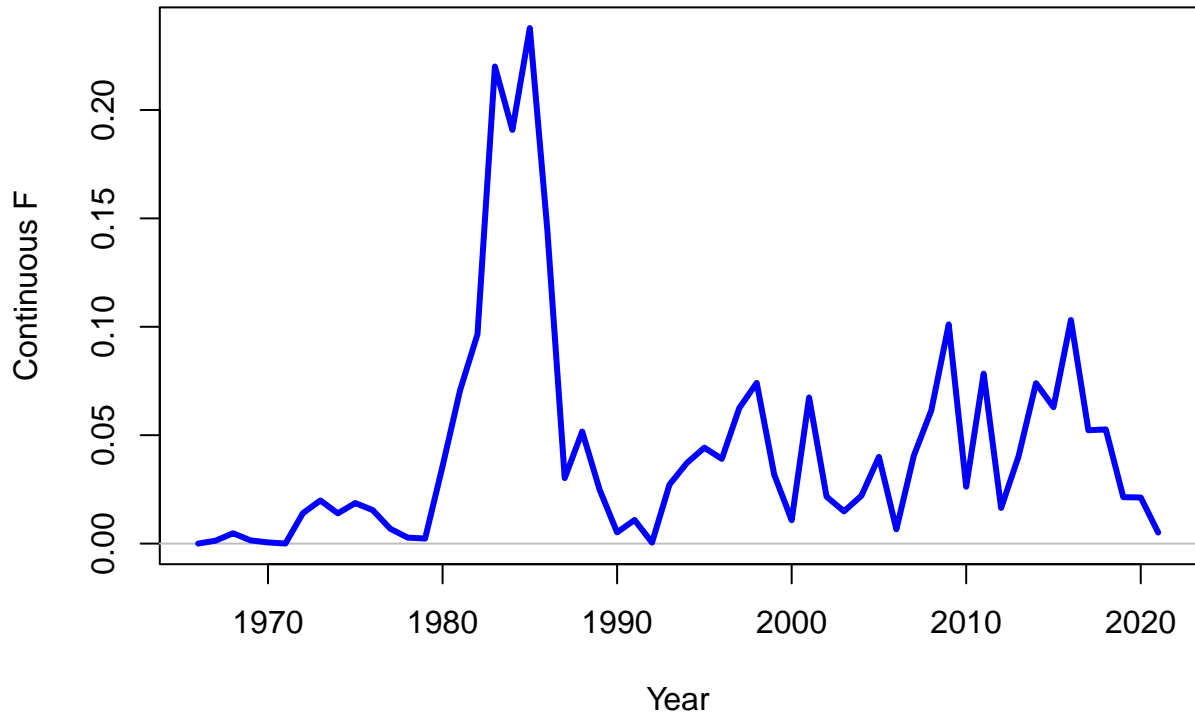




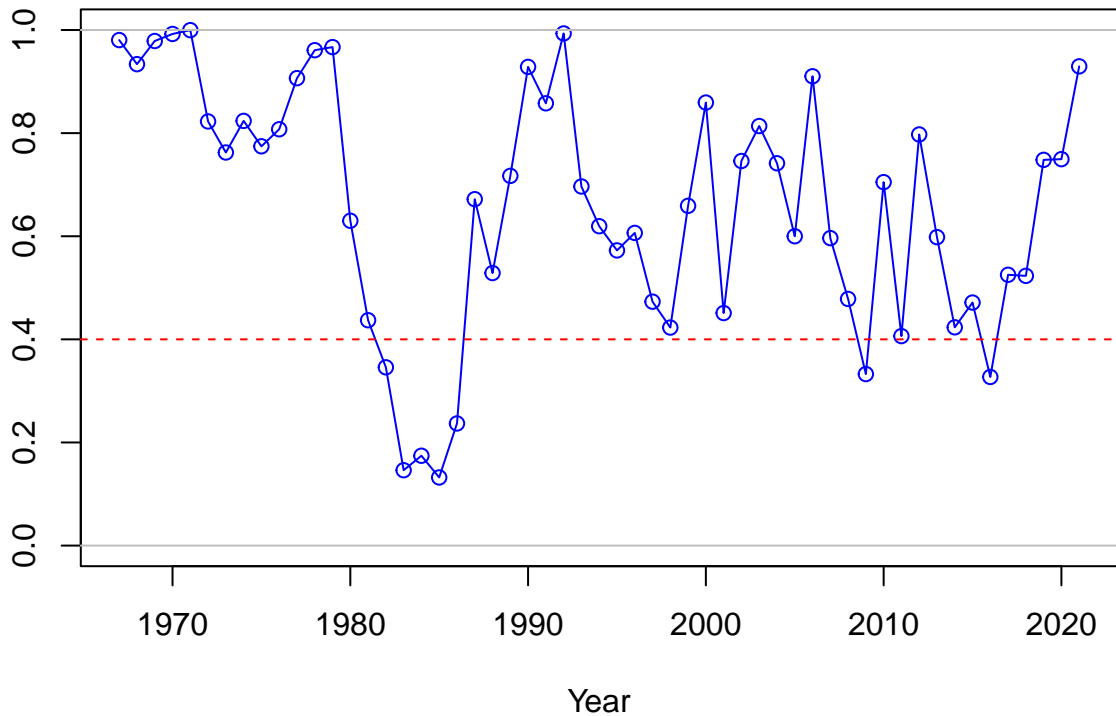


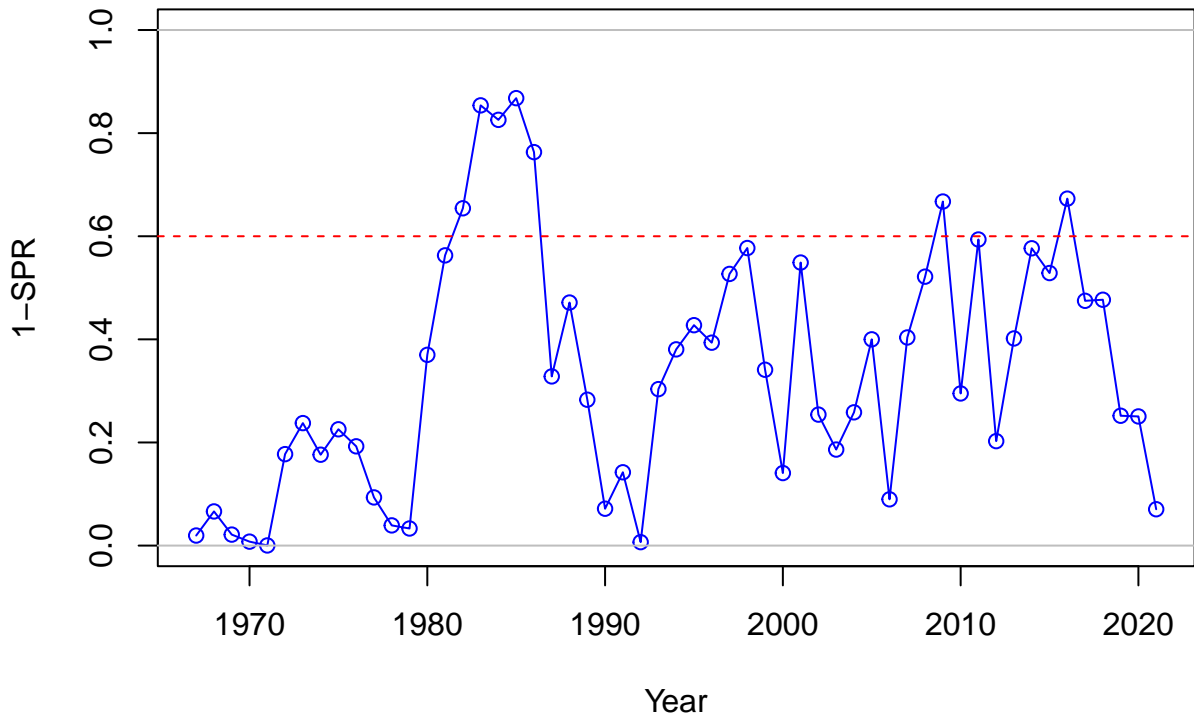




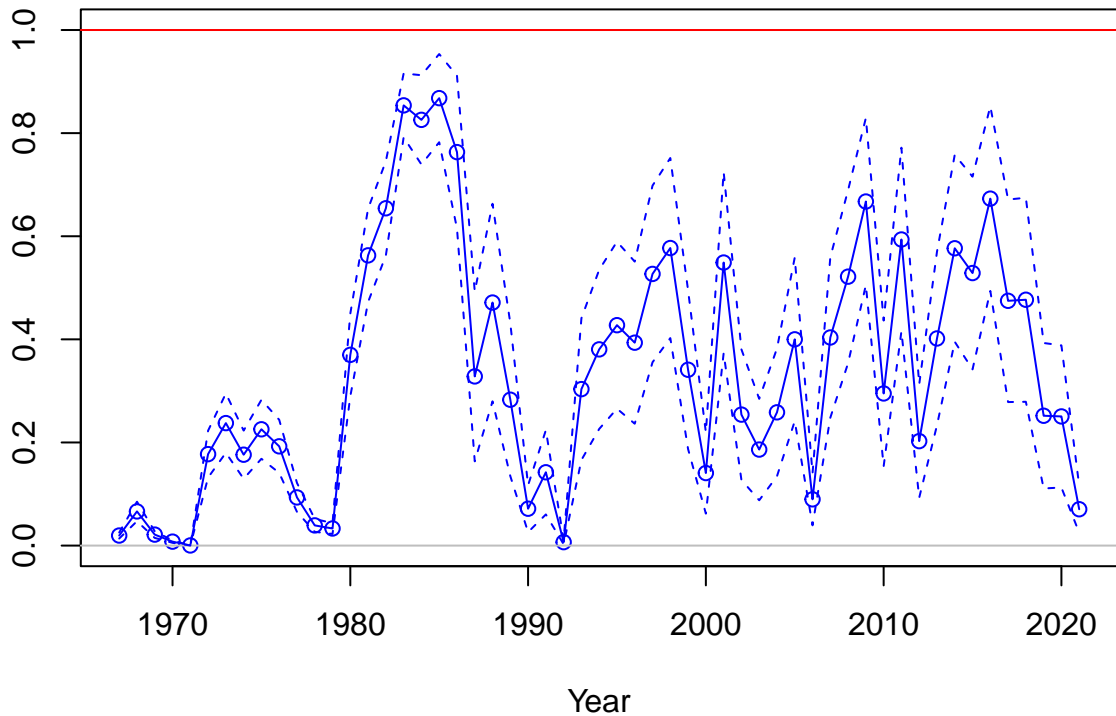


SPR



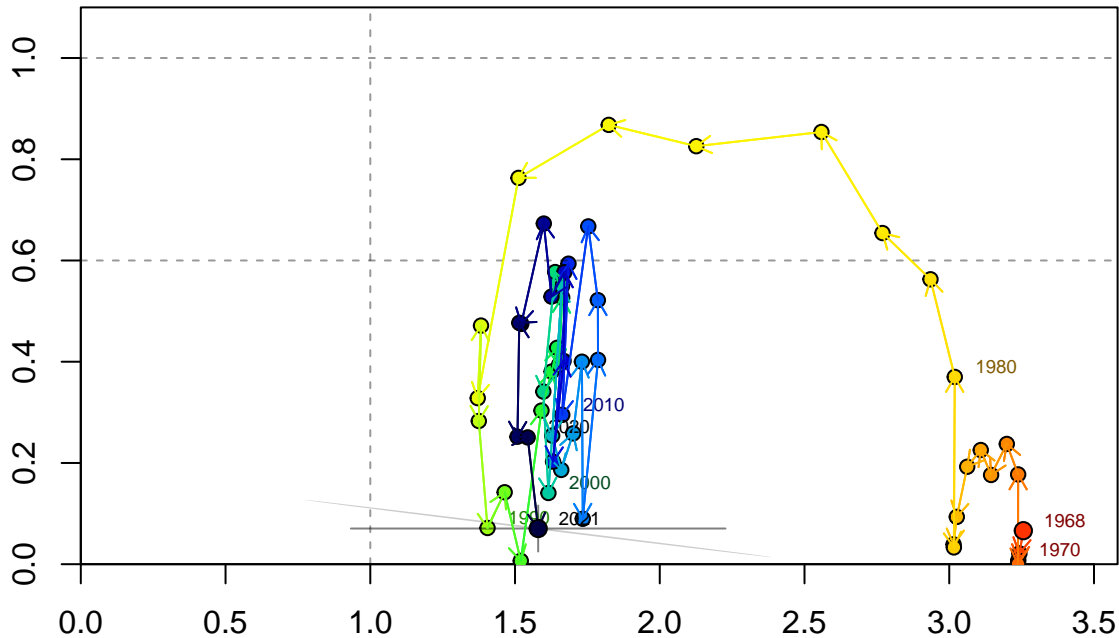


Fishing intensity: 1-SPR



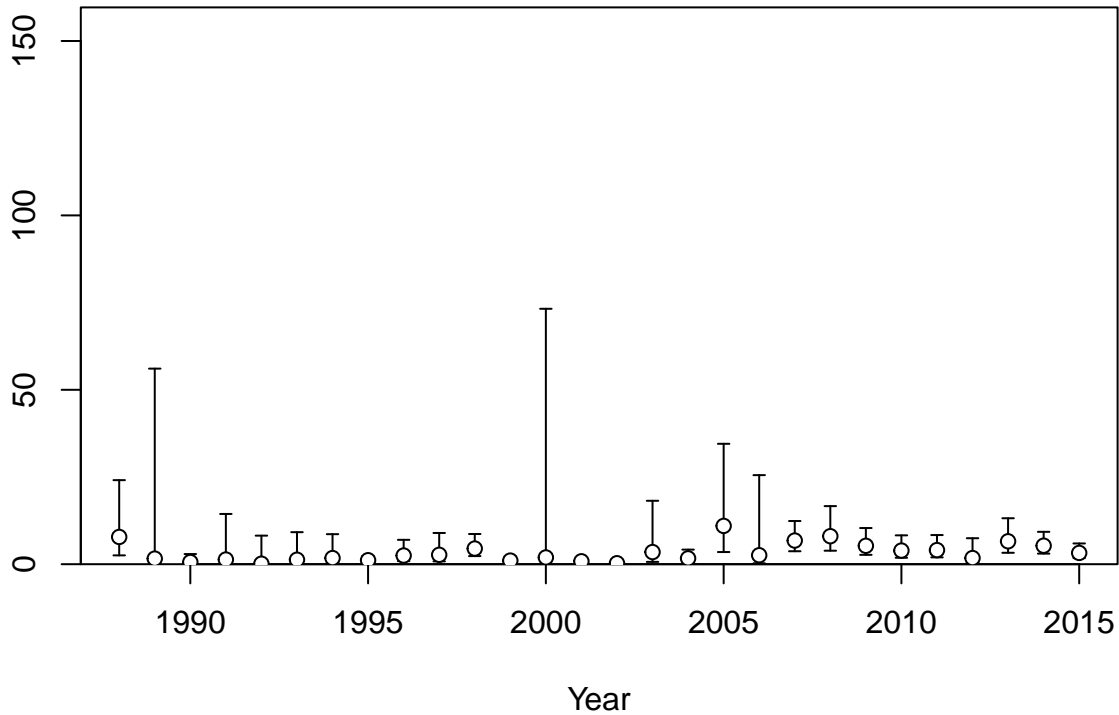


Fishing intensity: 1-SPR

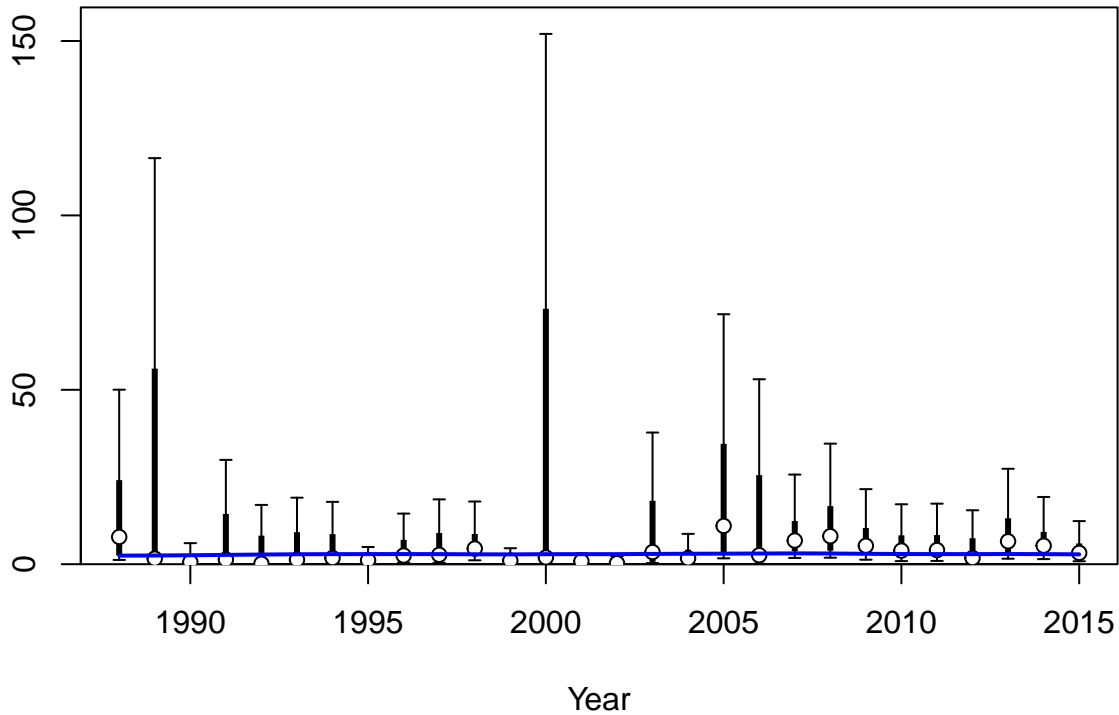


Relative spawning output: B/B\_MSY

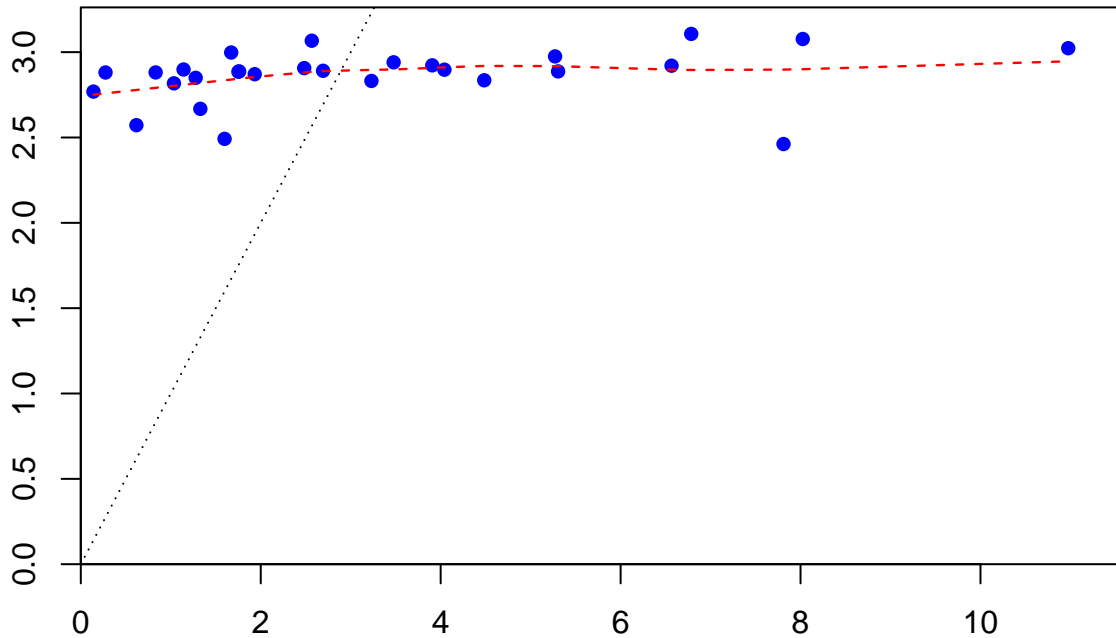
Index



Index



Expected index



Observed index

Log index

4  
2  
0  
-2  
-4  
-6

1990

1995

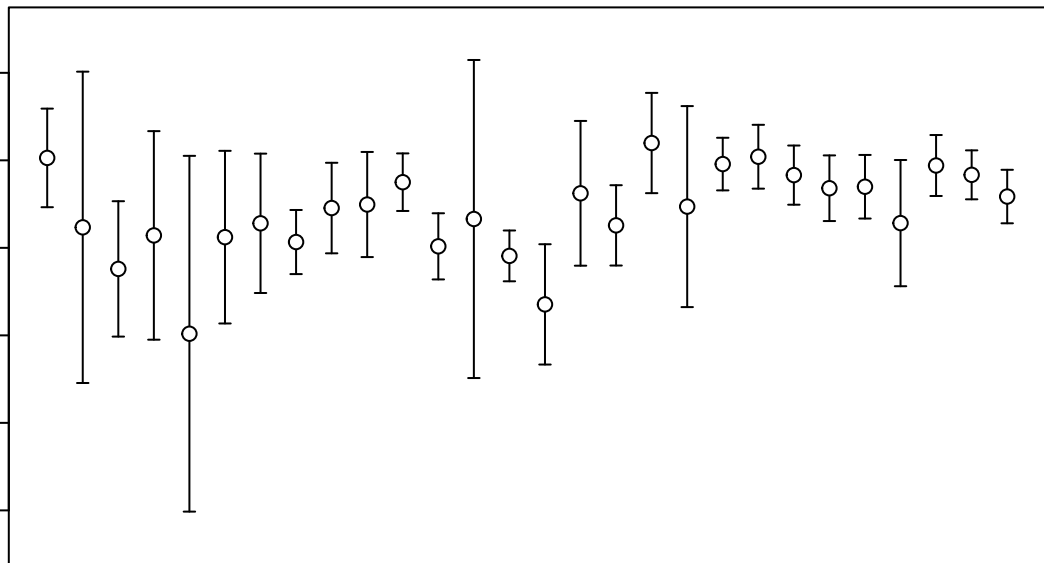
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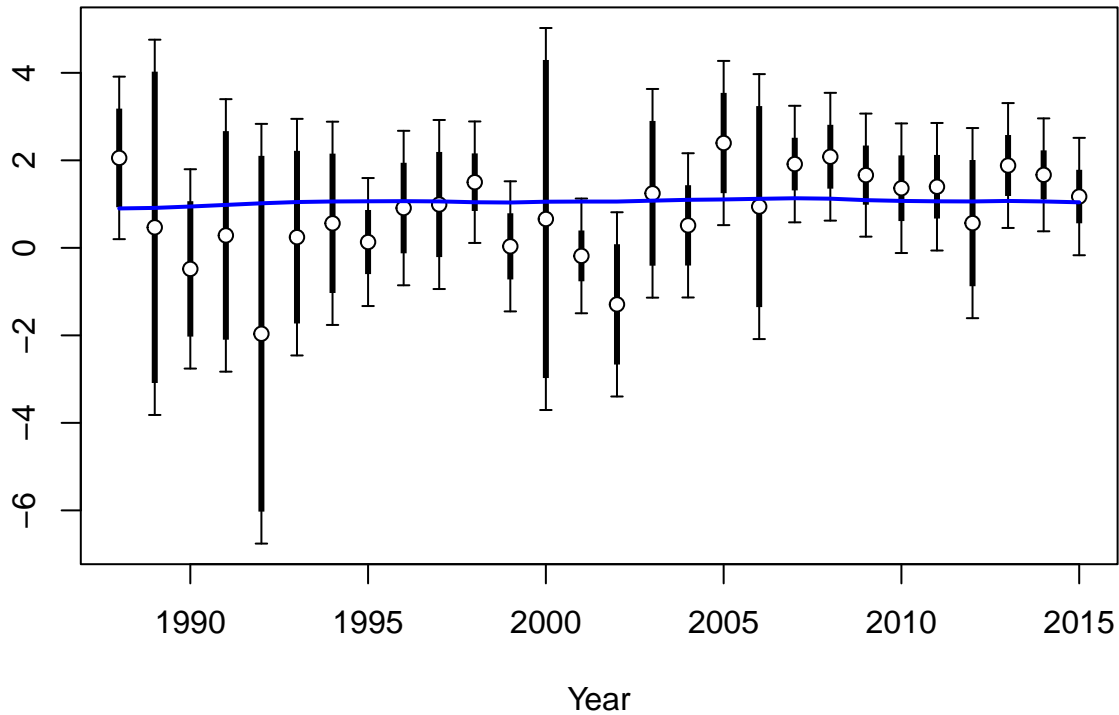
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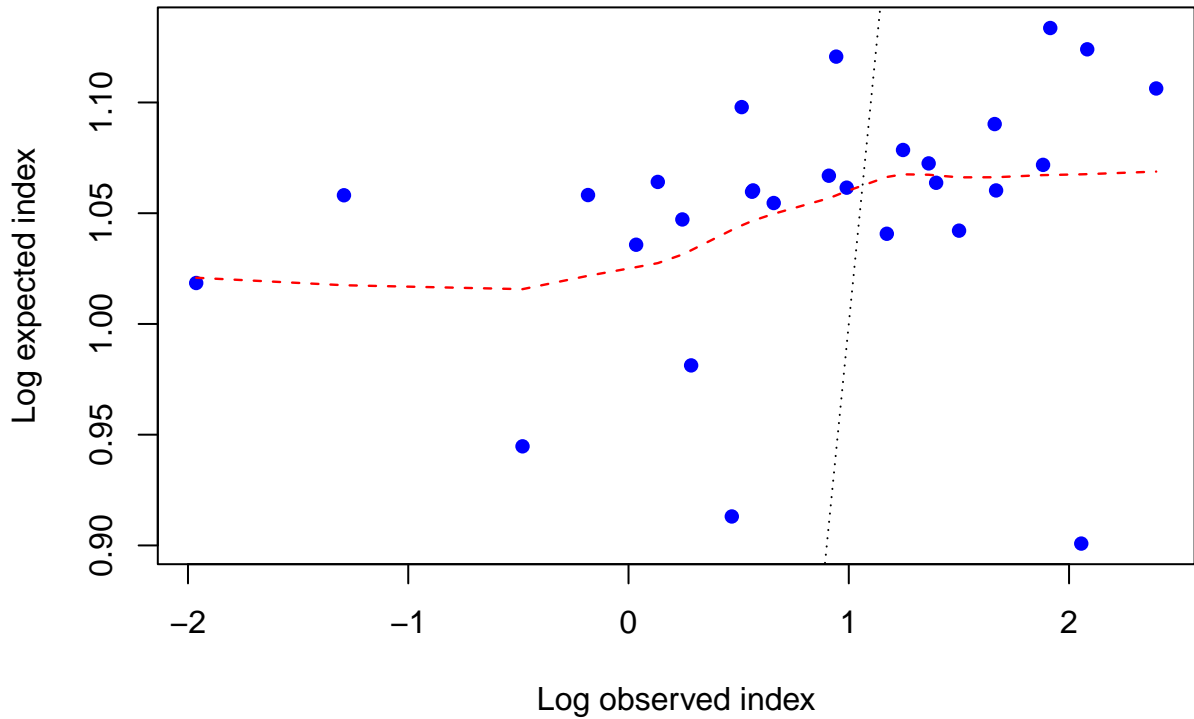
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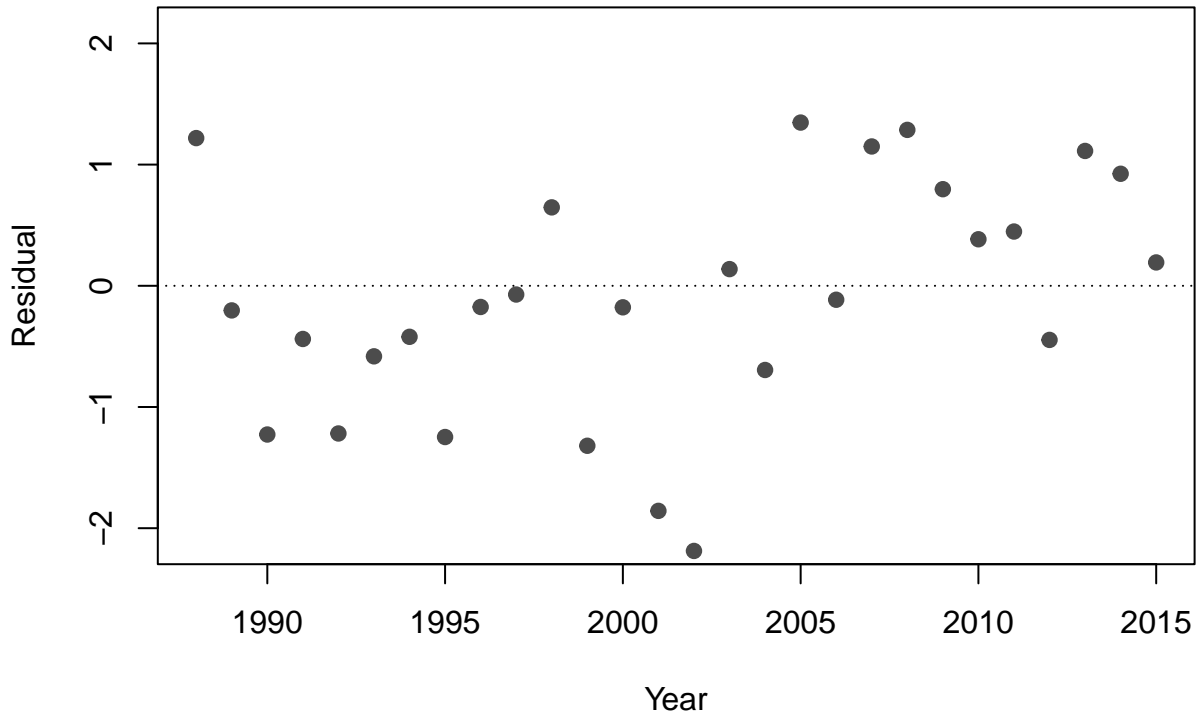
Year



Log index

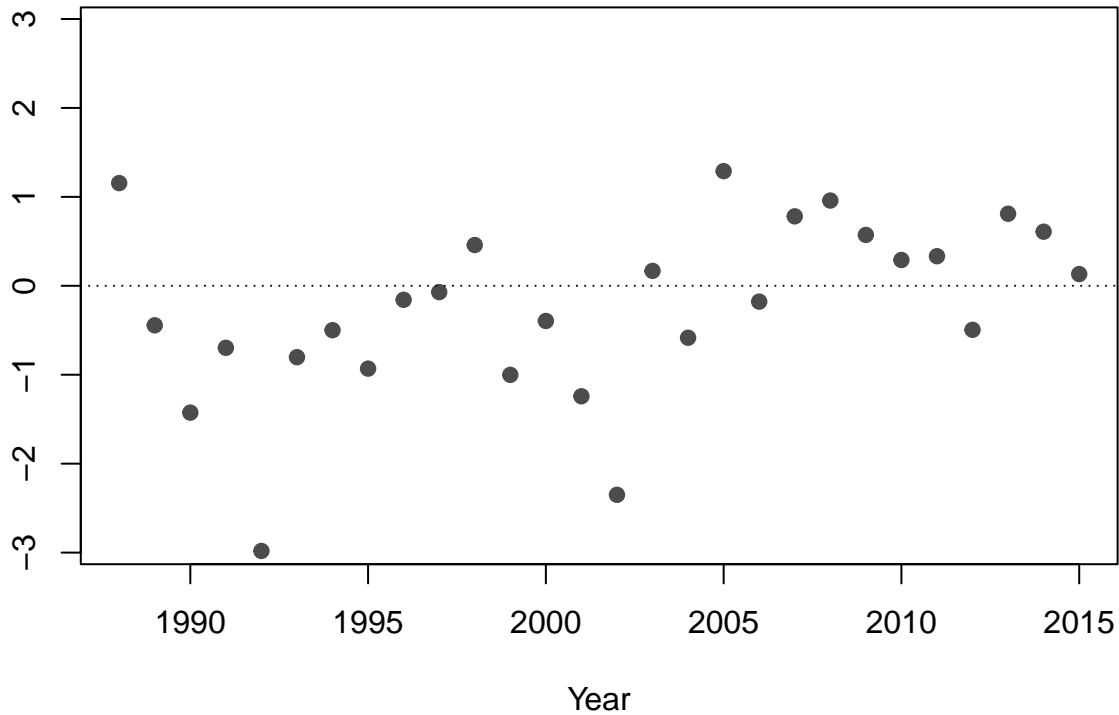




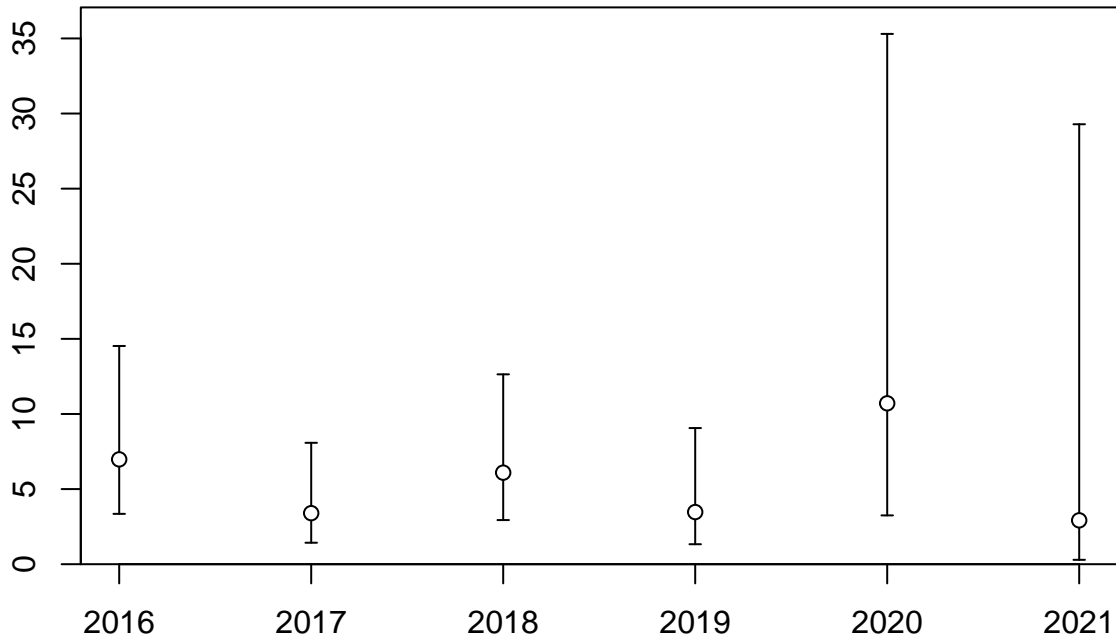




Deviation

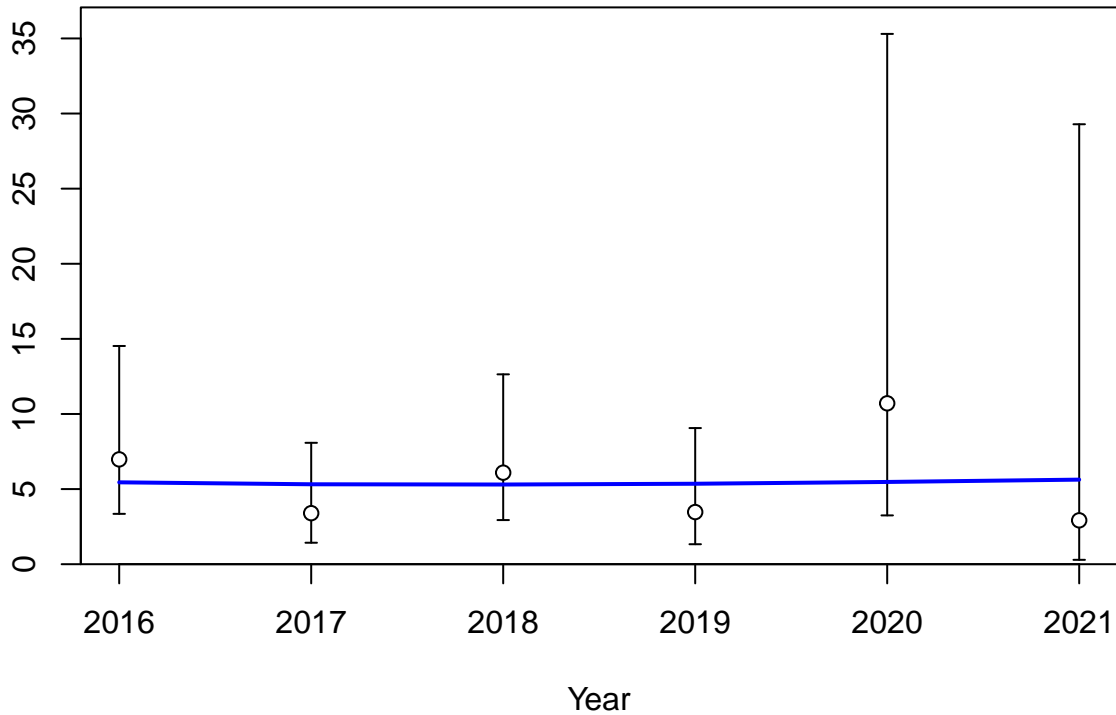


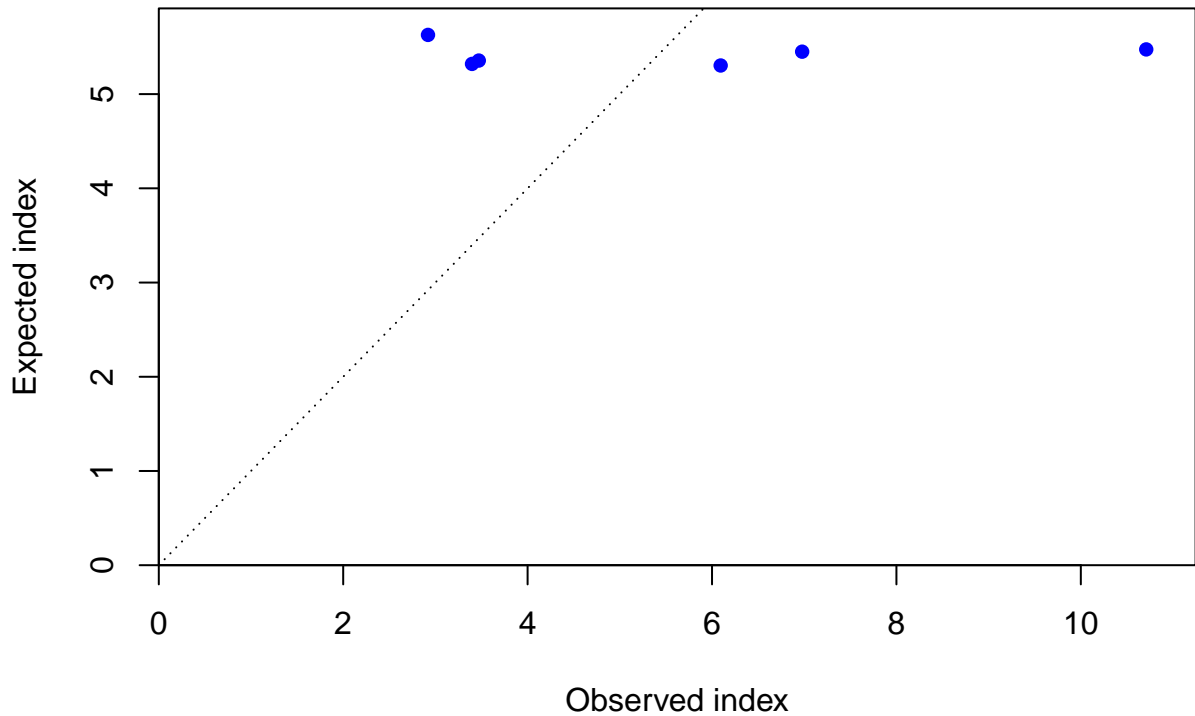
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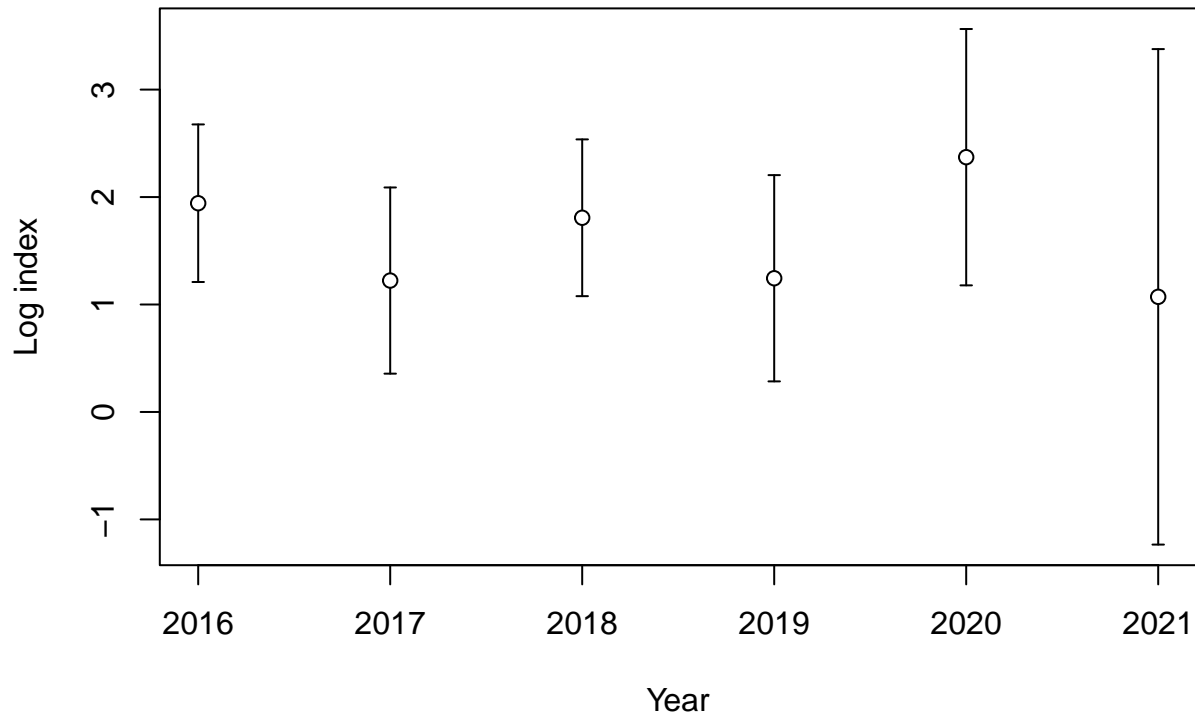


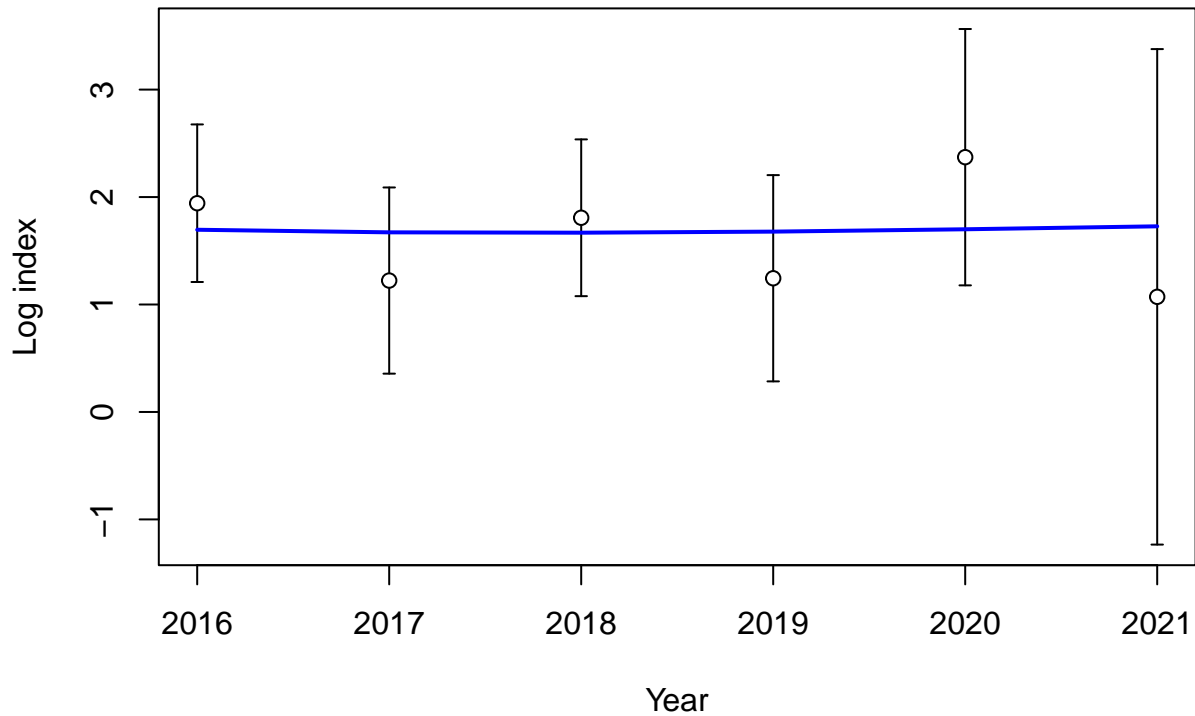
Year

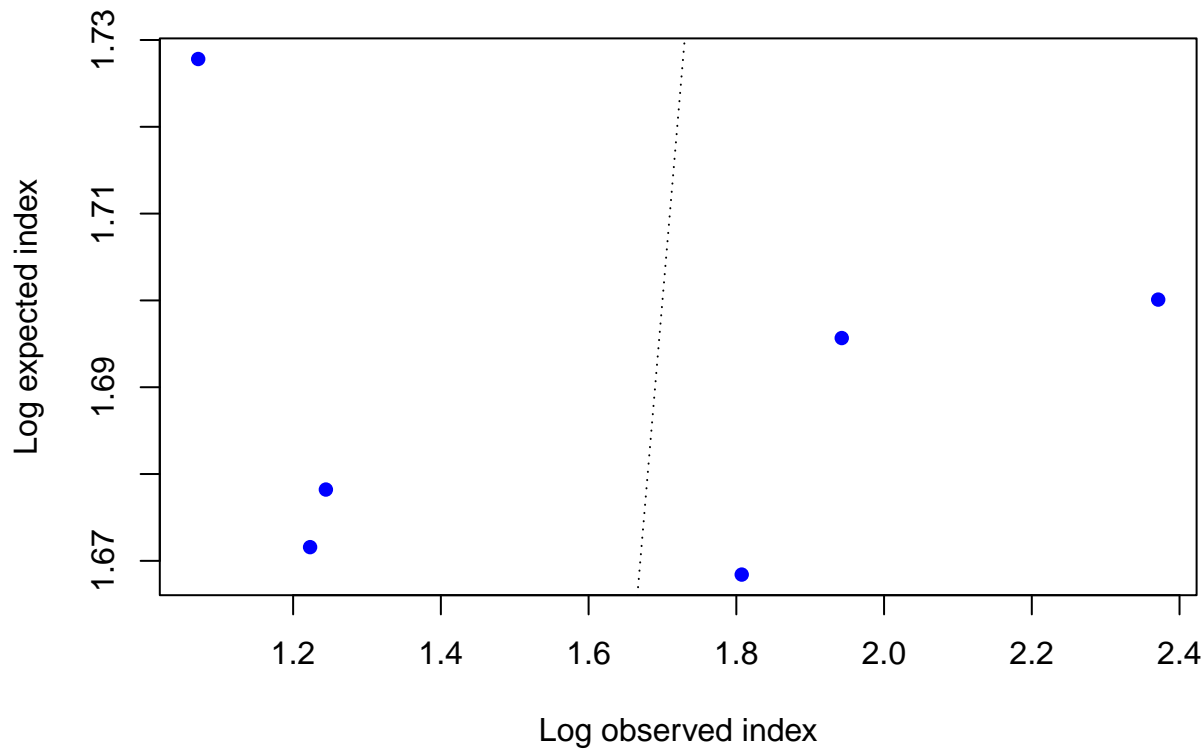
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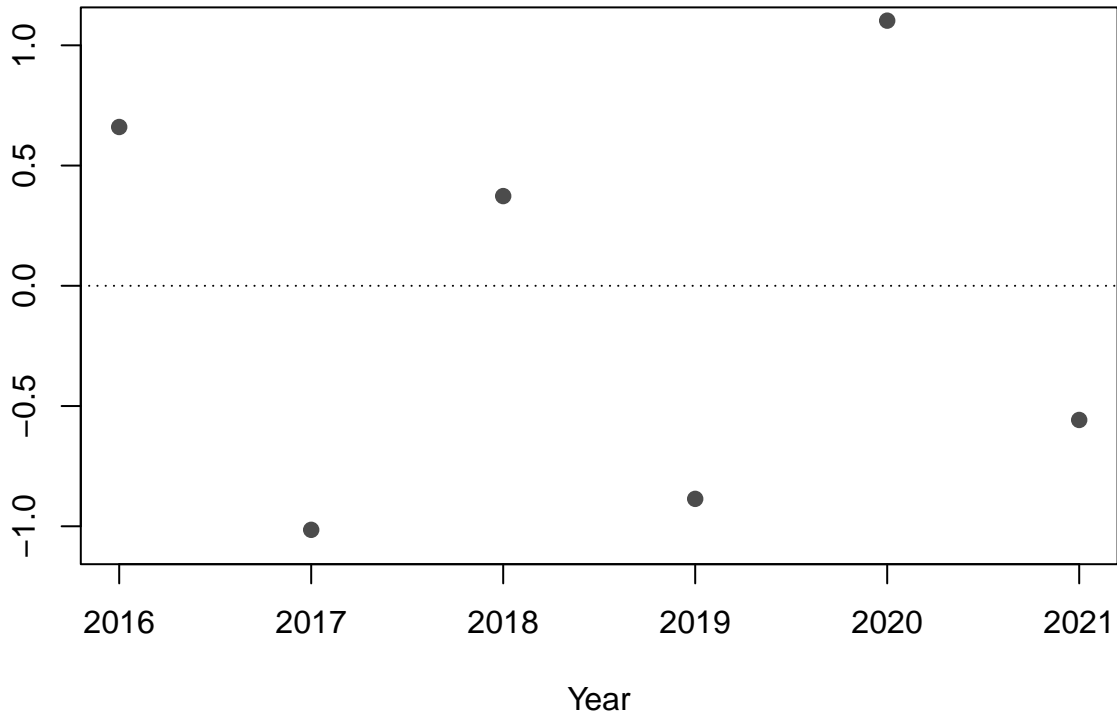




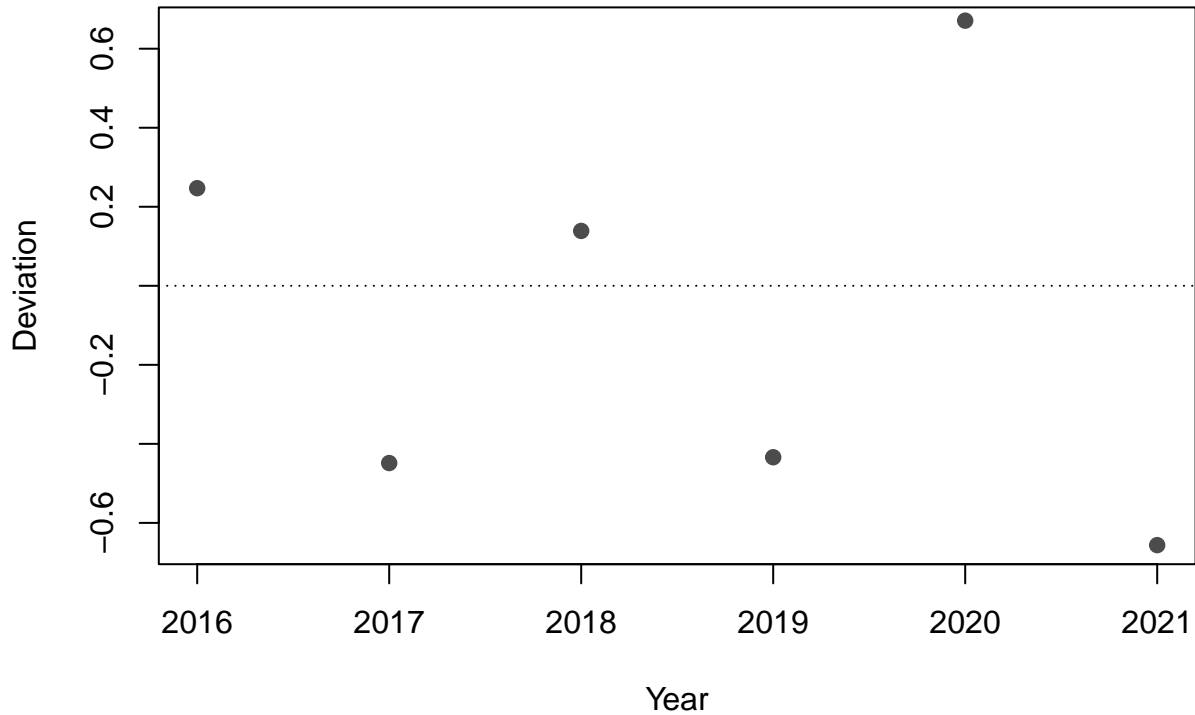


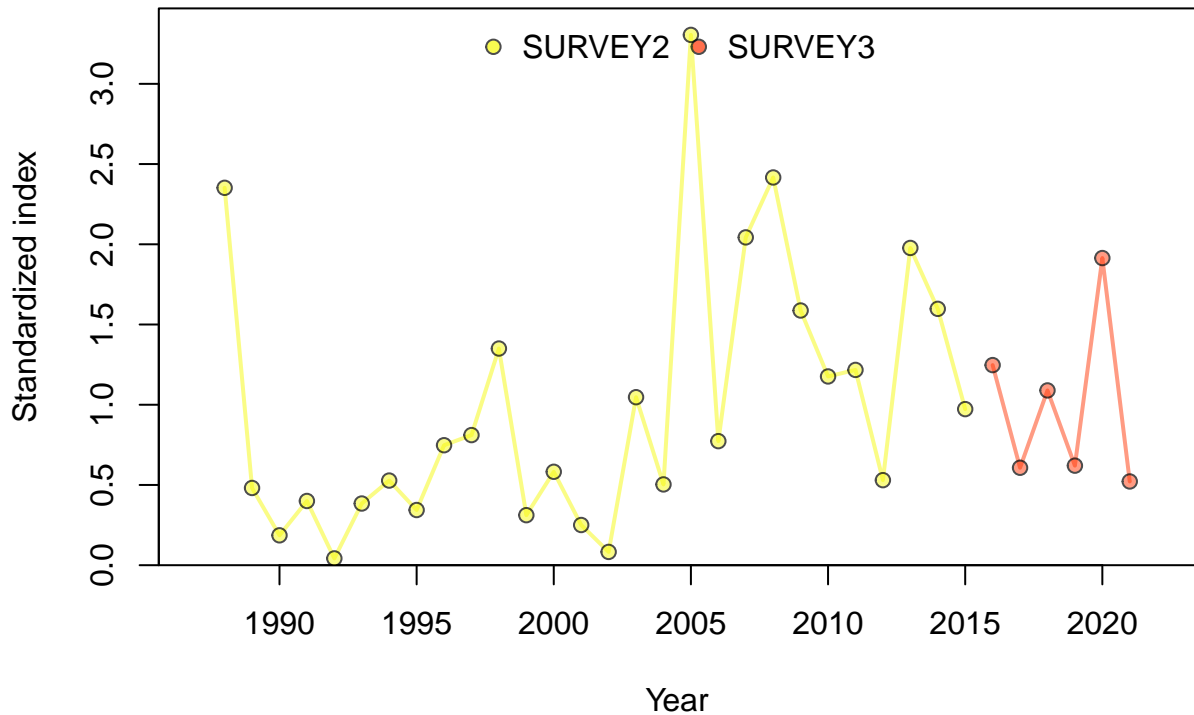


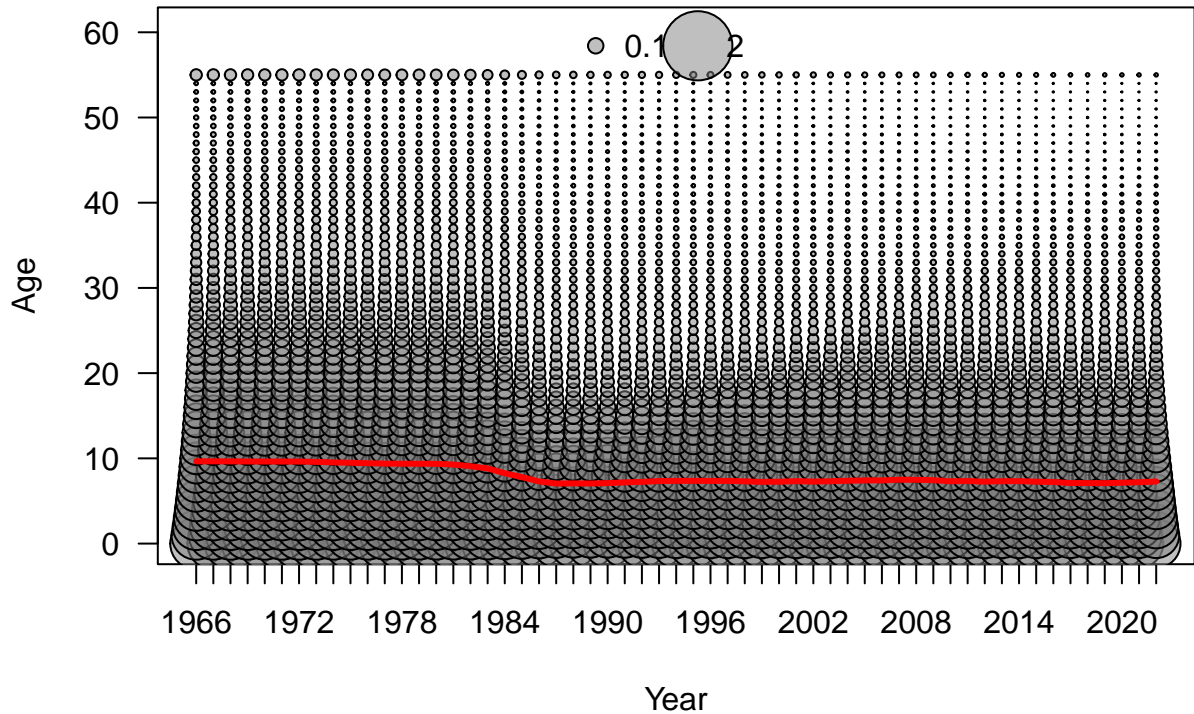
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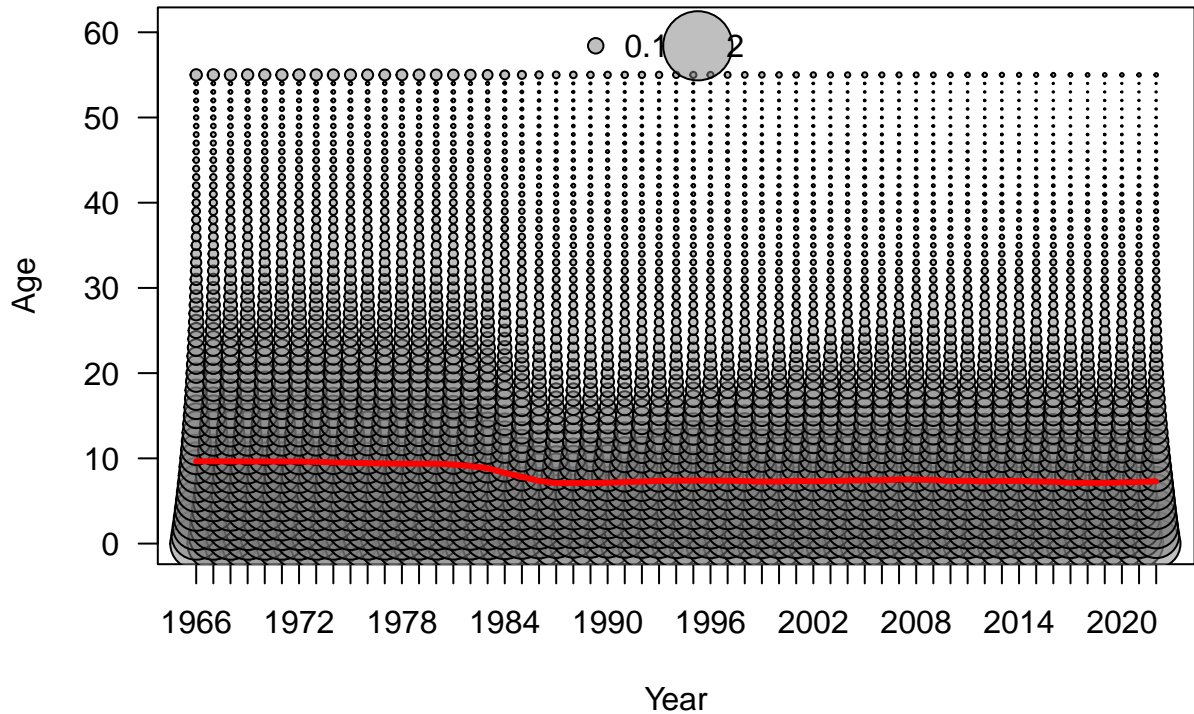


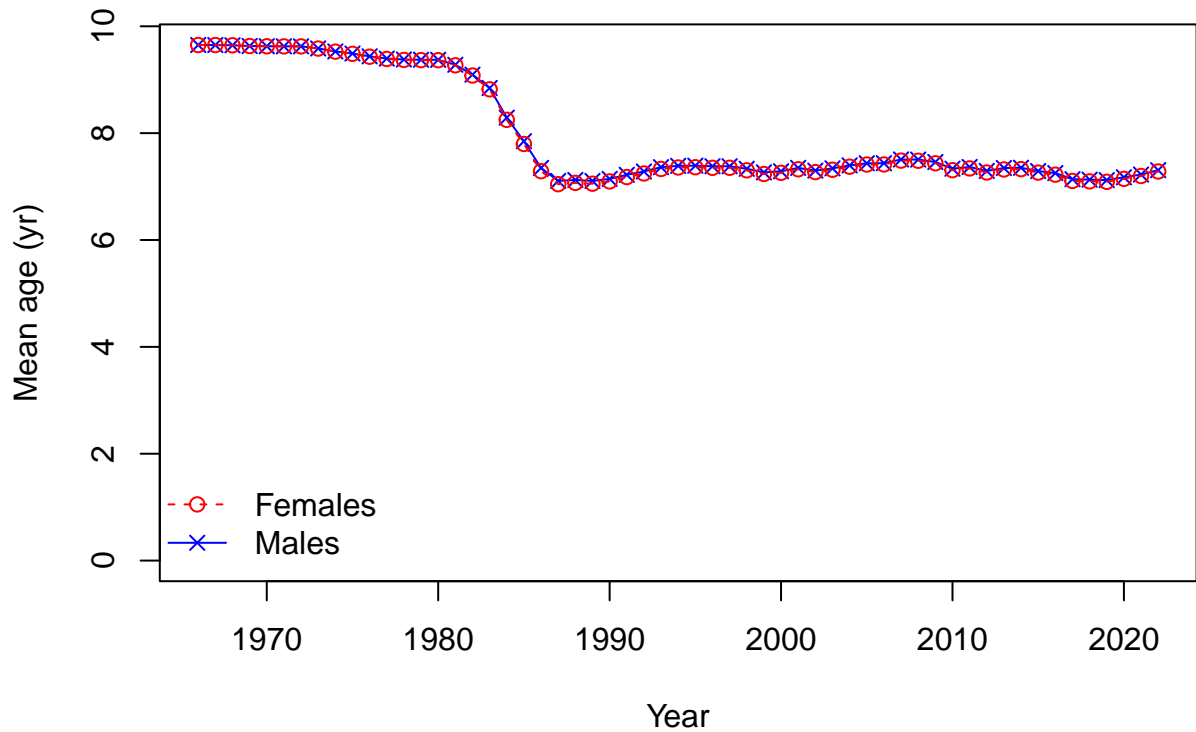


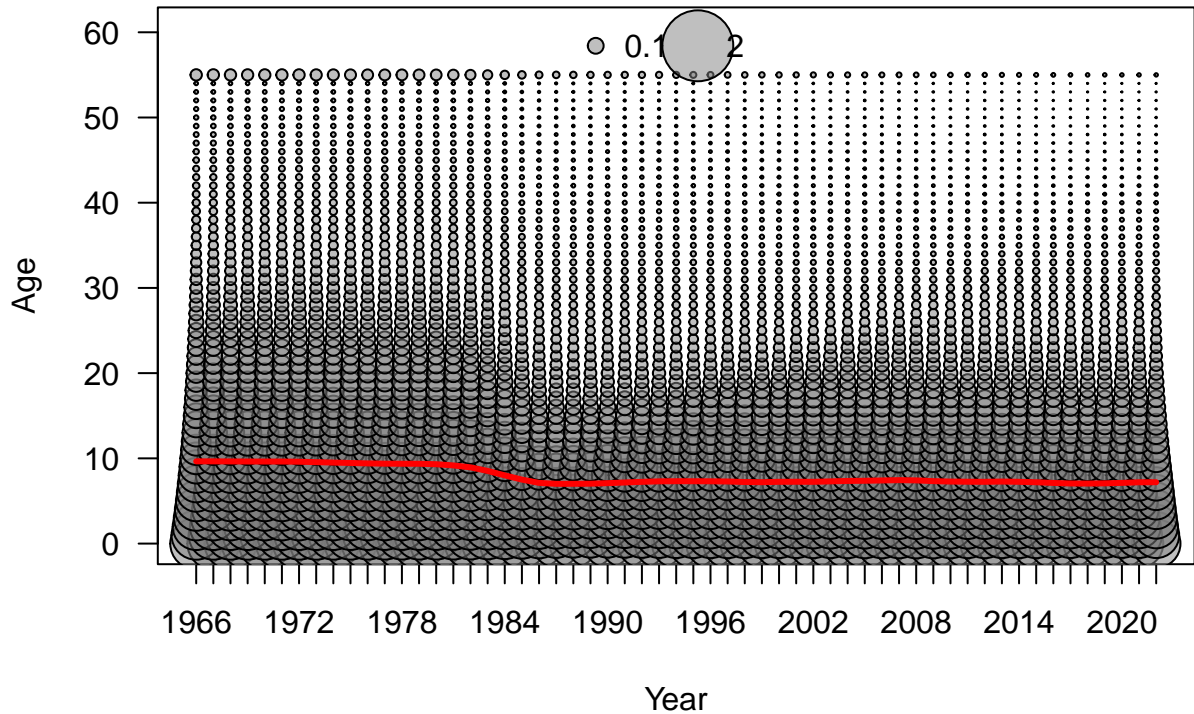


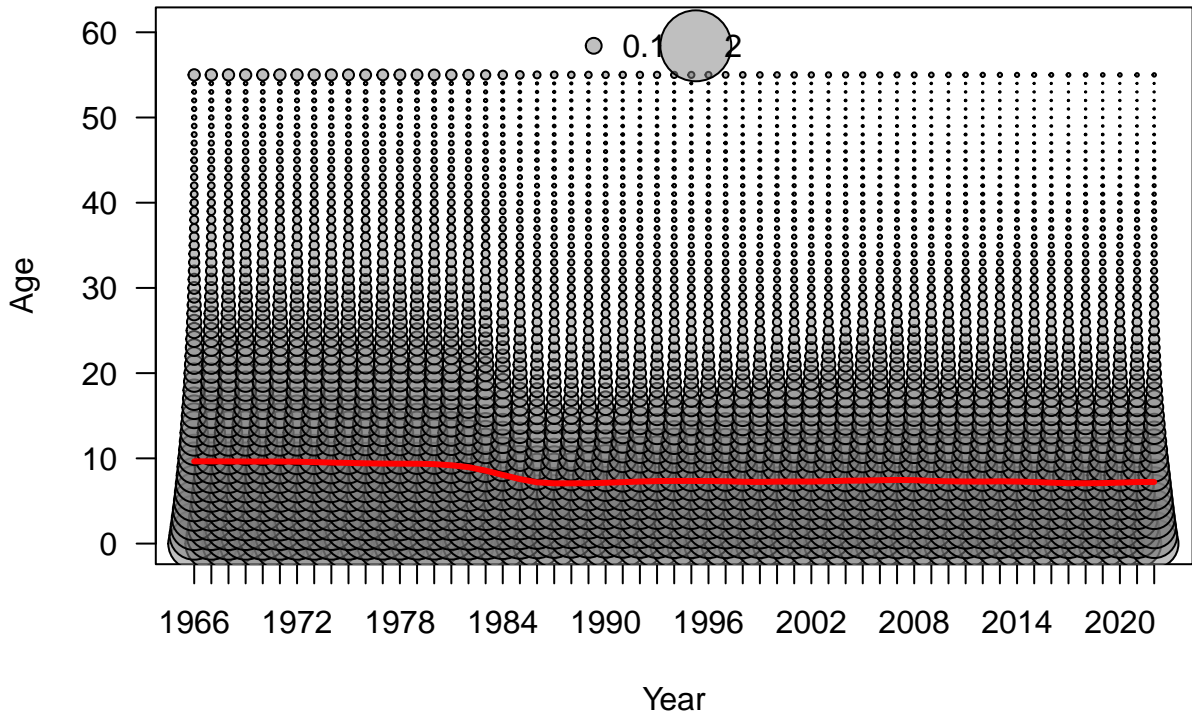


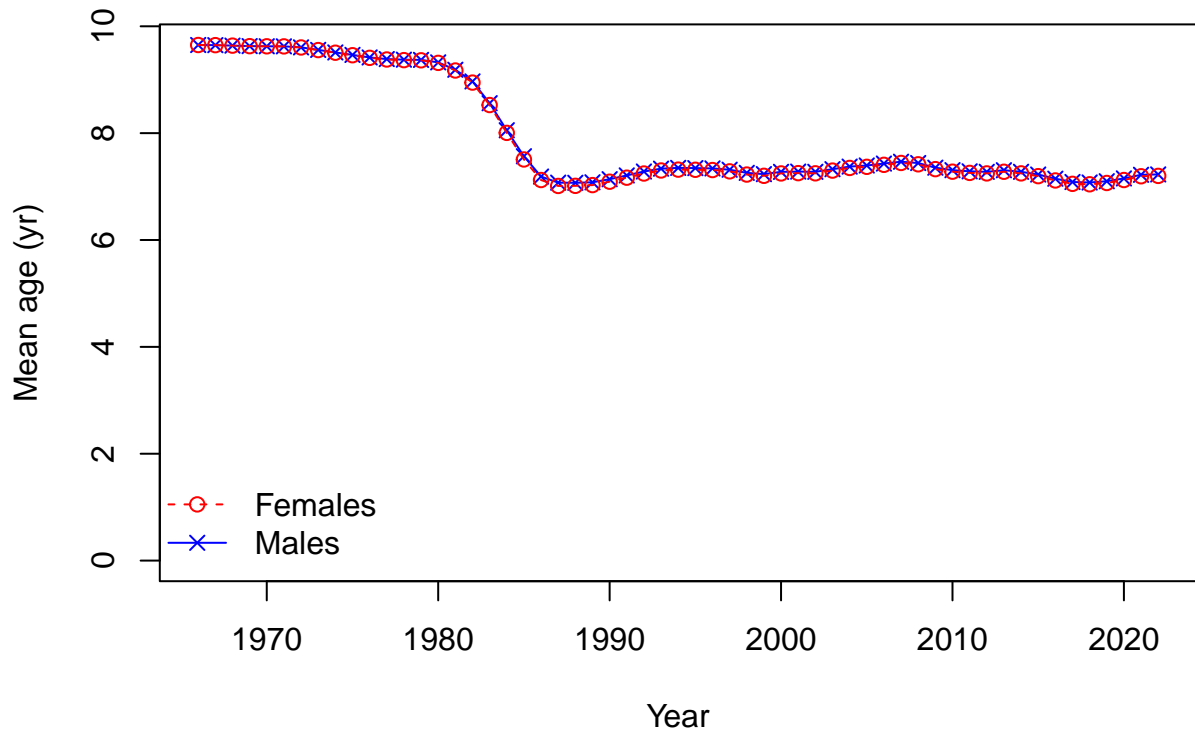




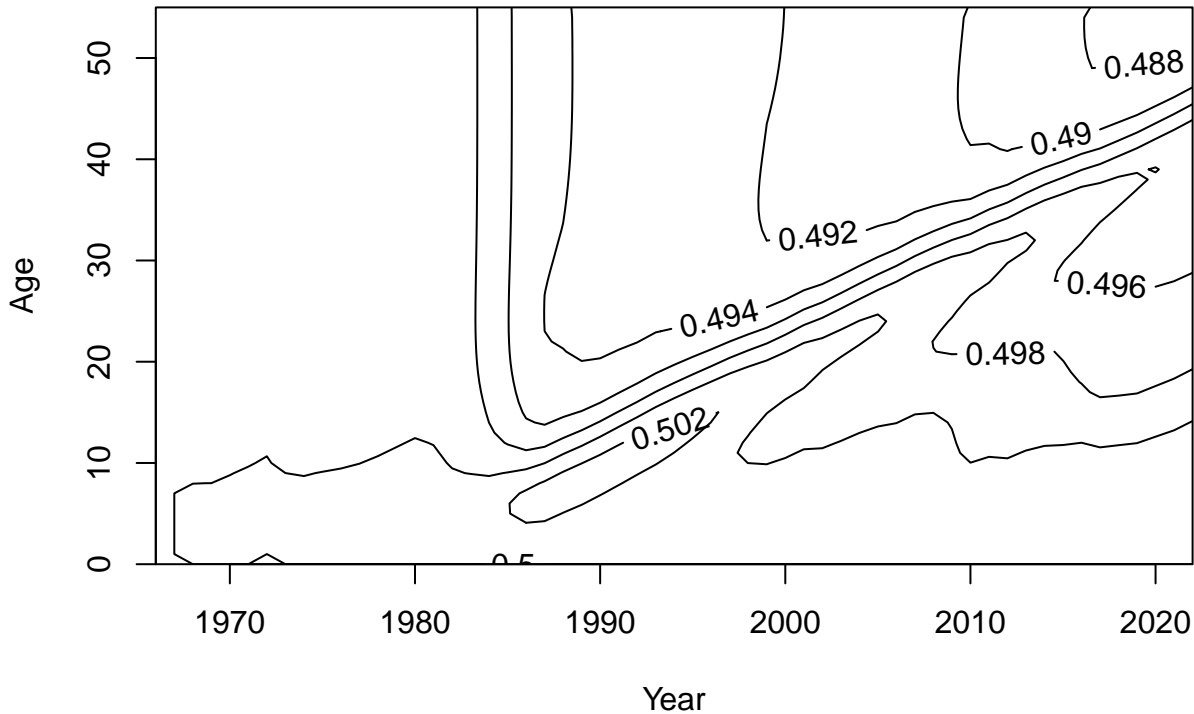


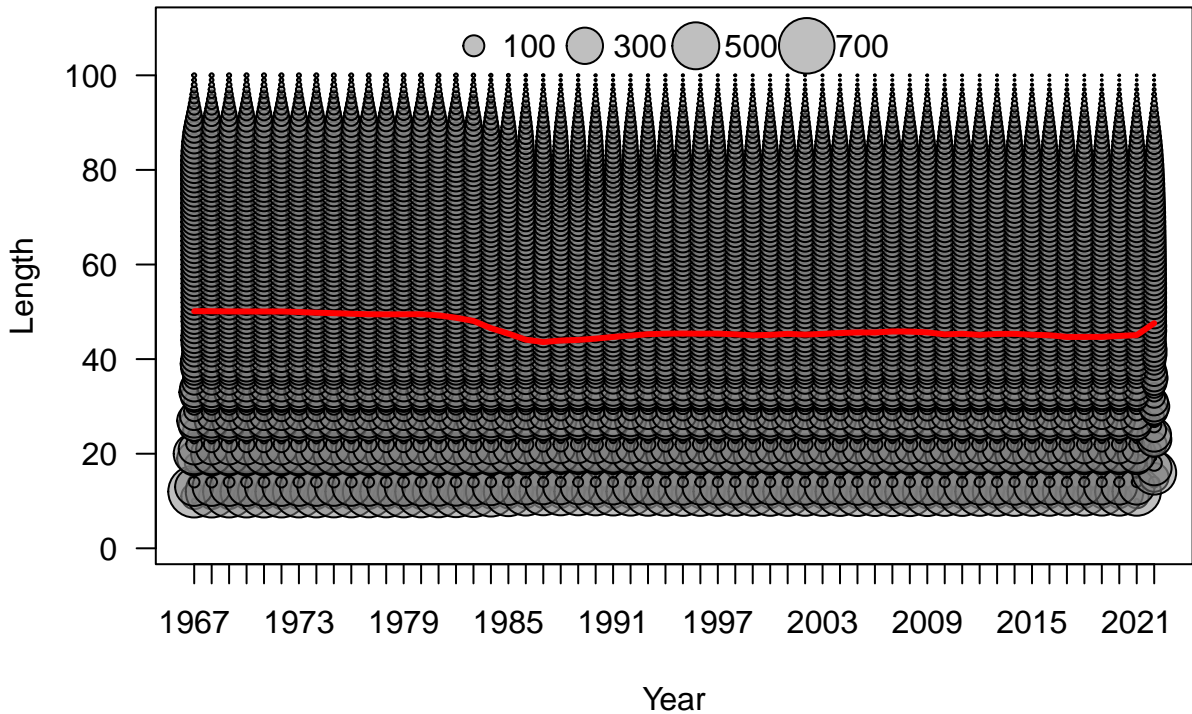


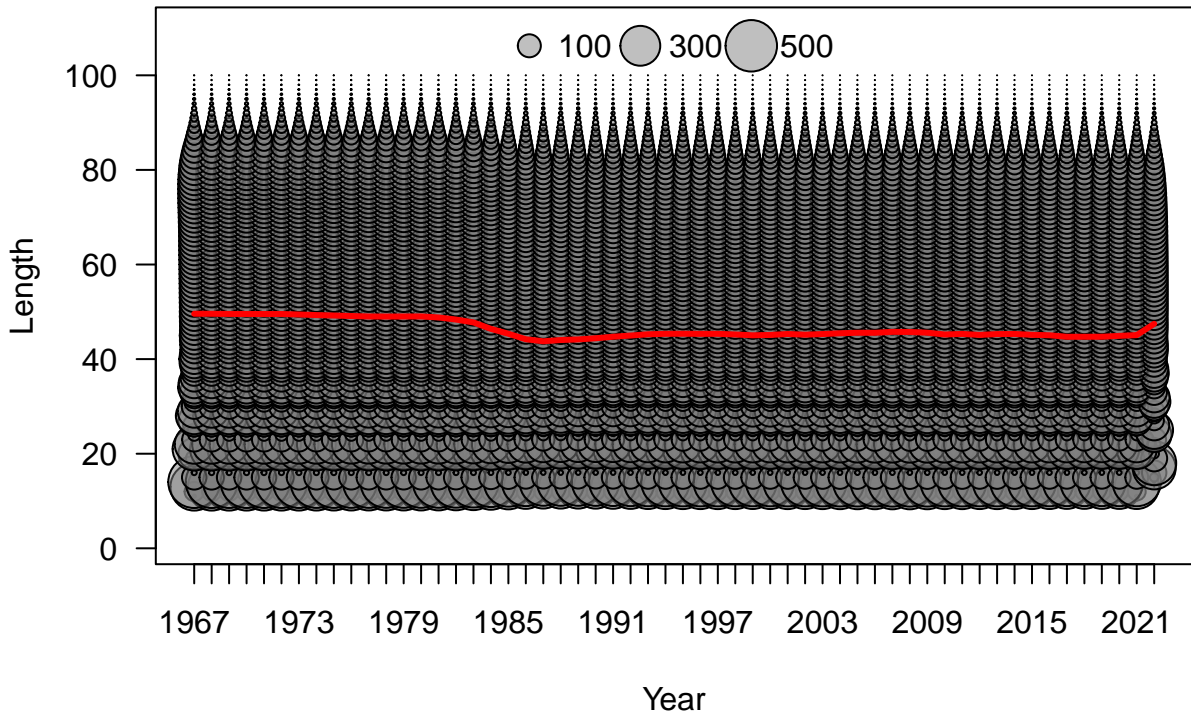


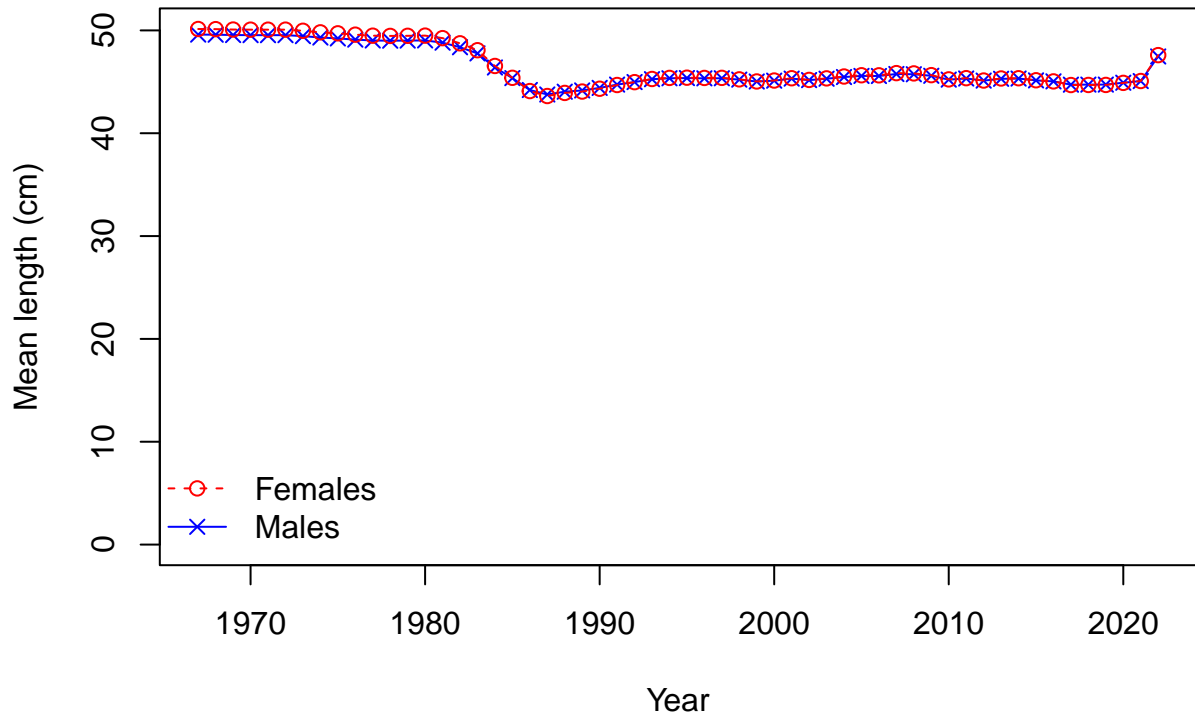


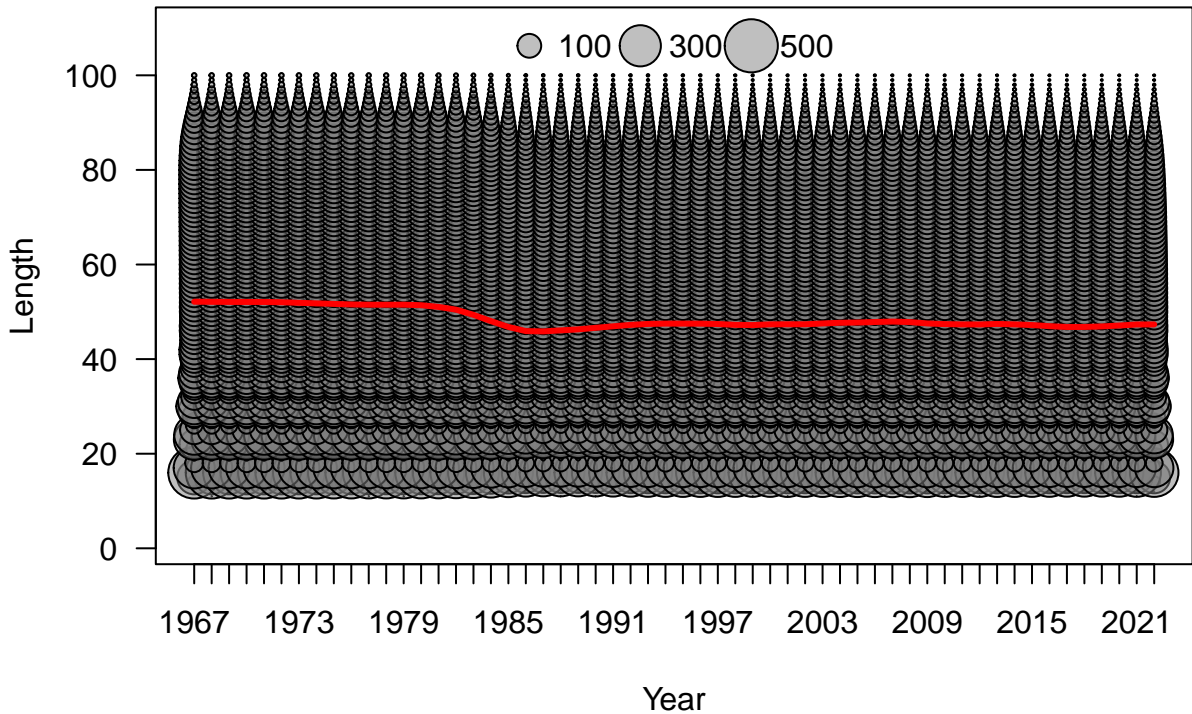


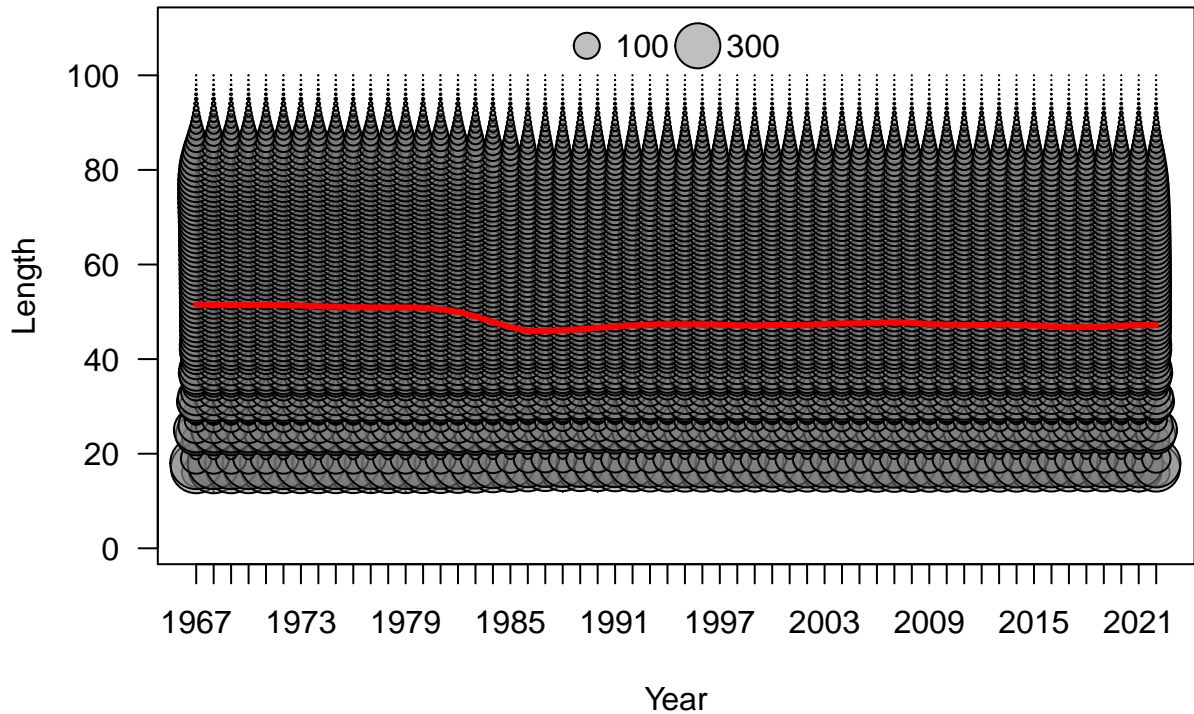


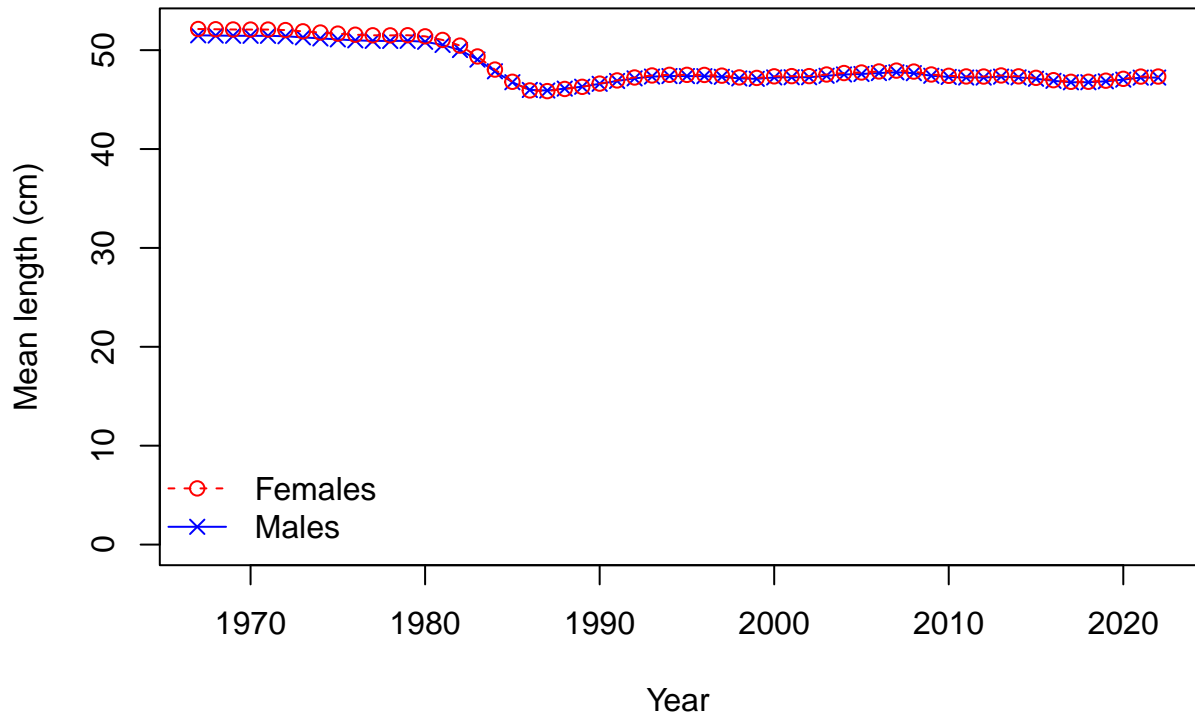


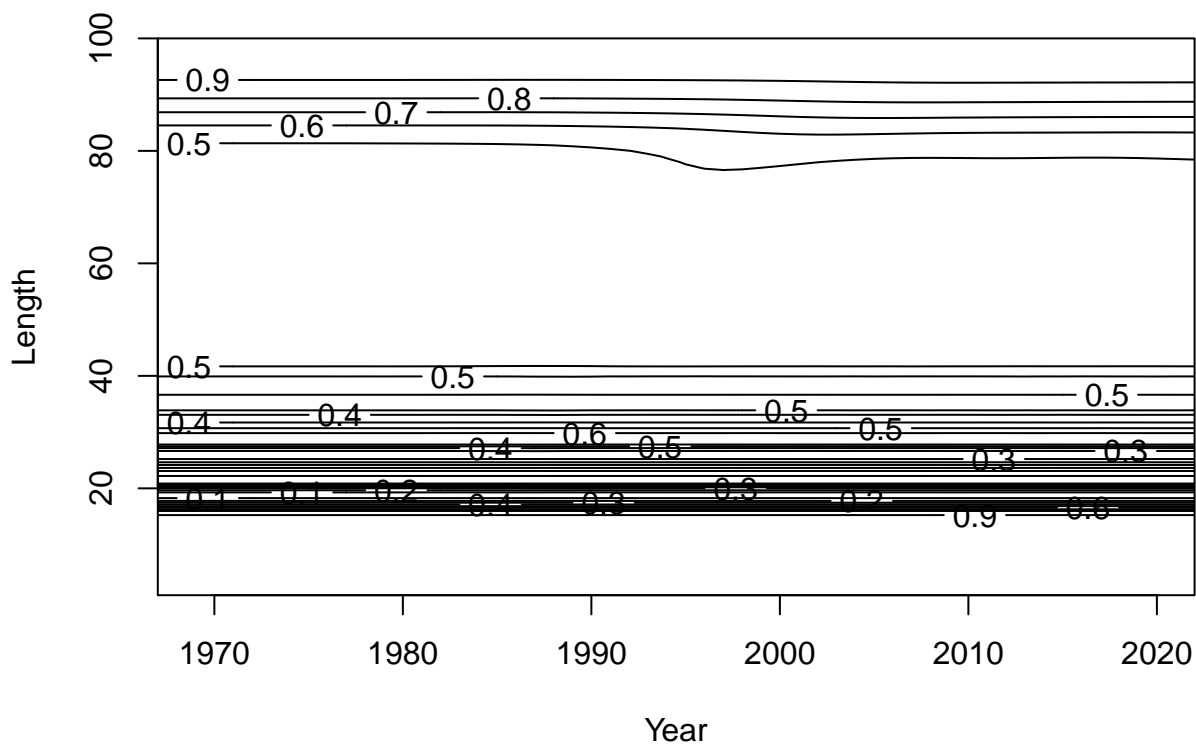




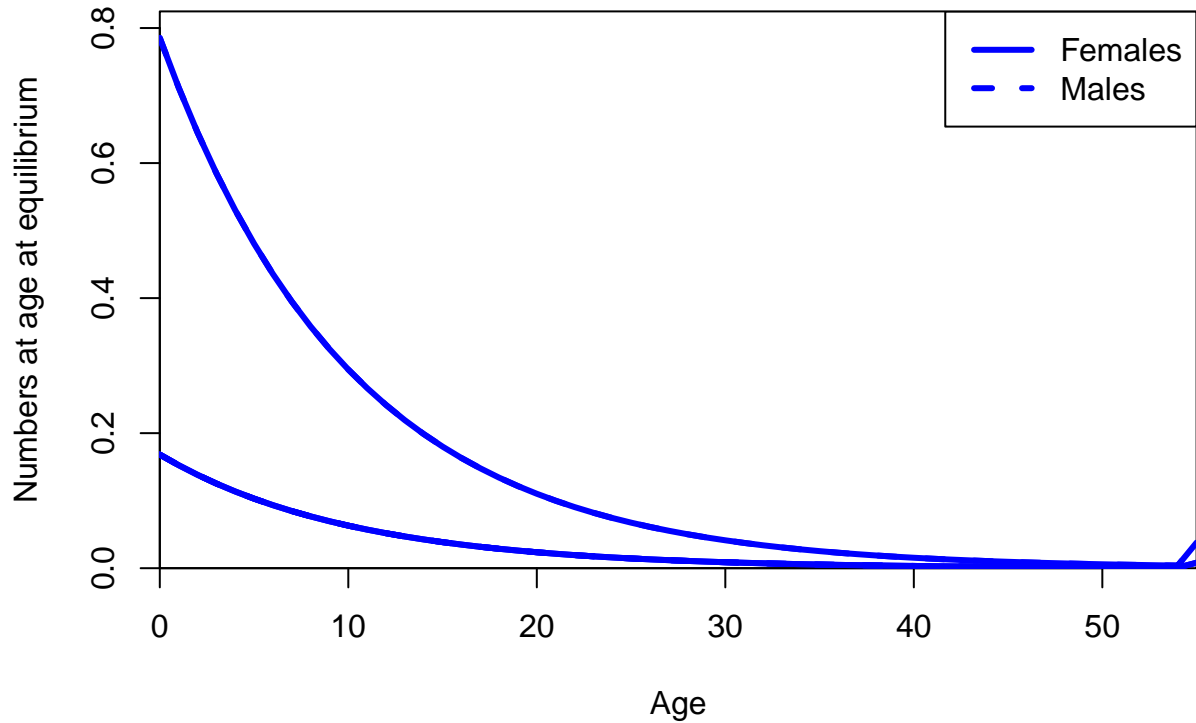


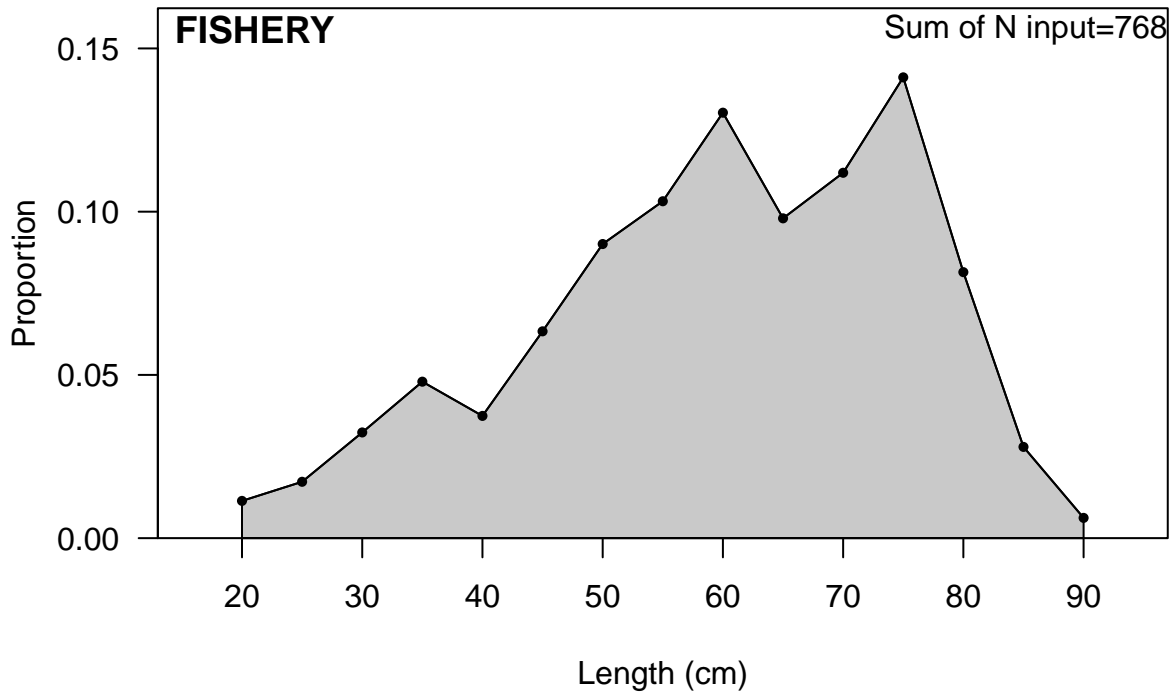


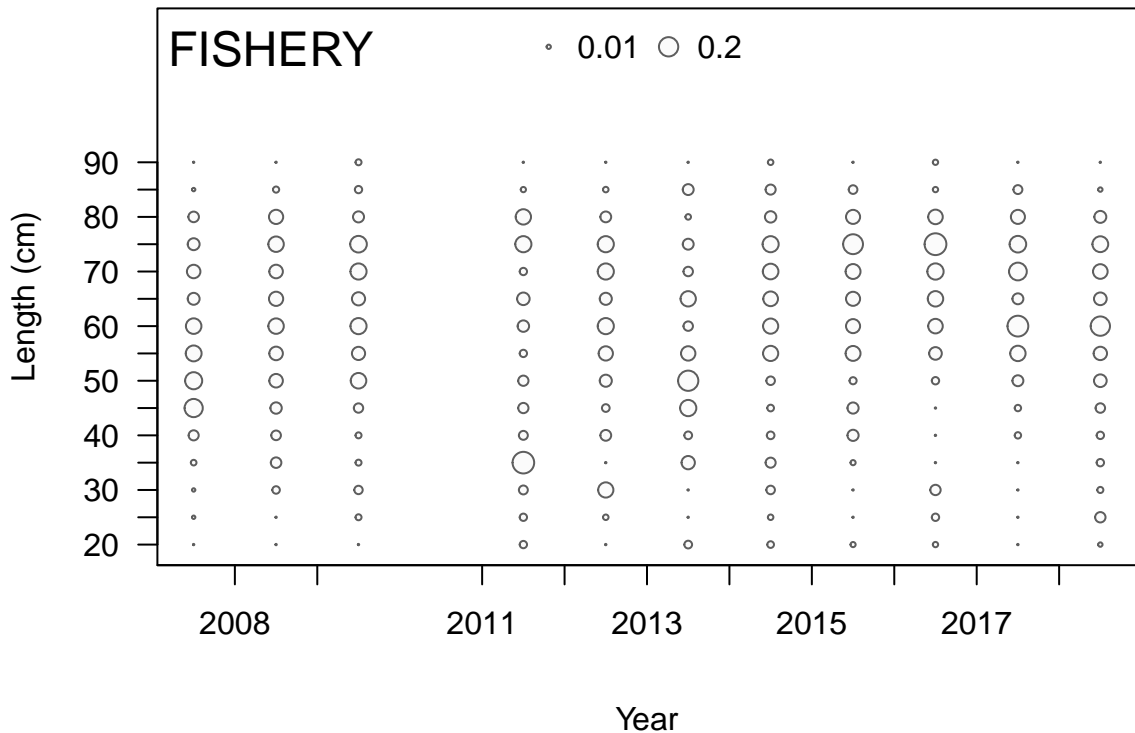




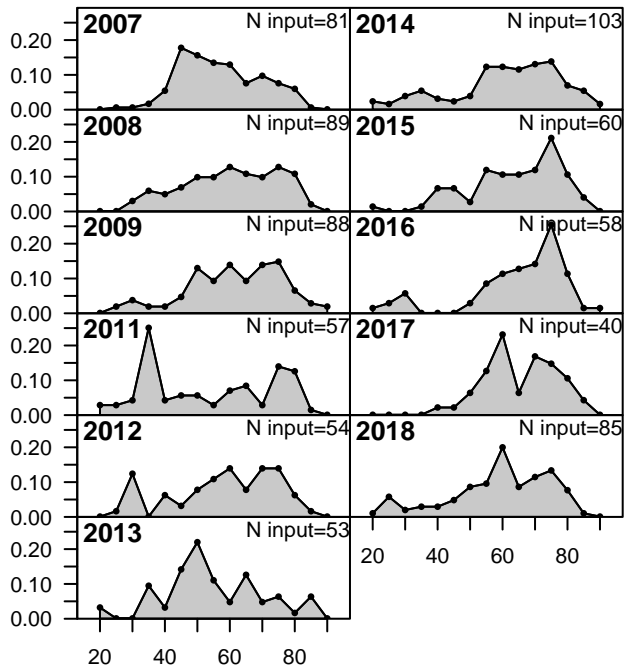




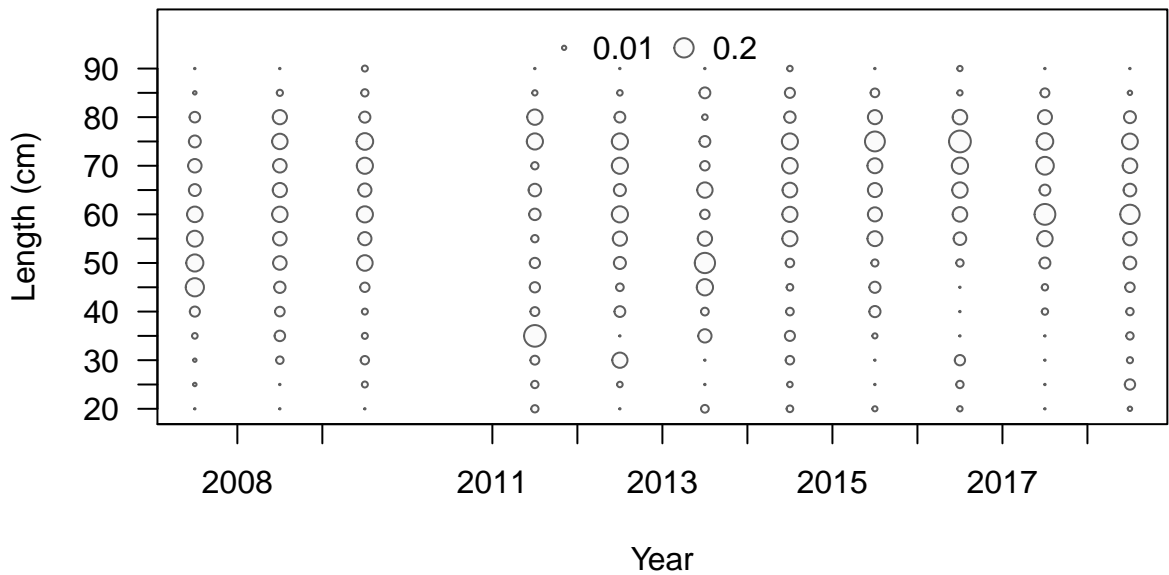




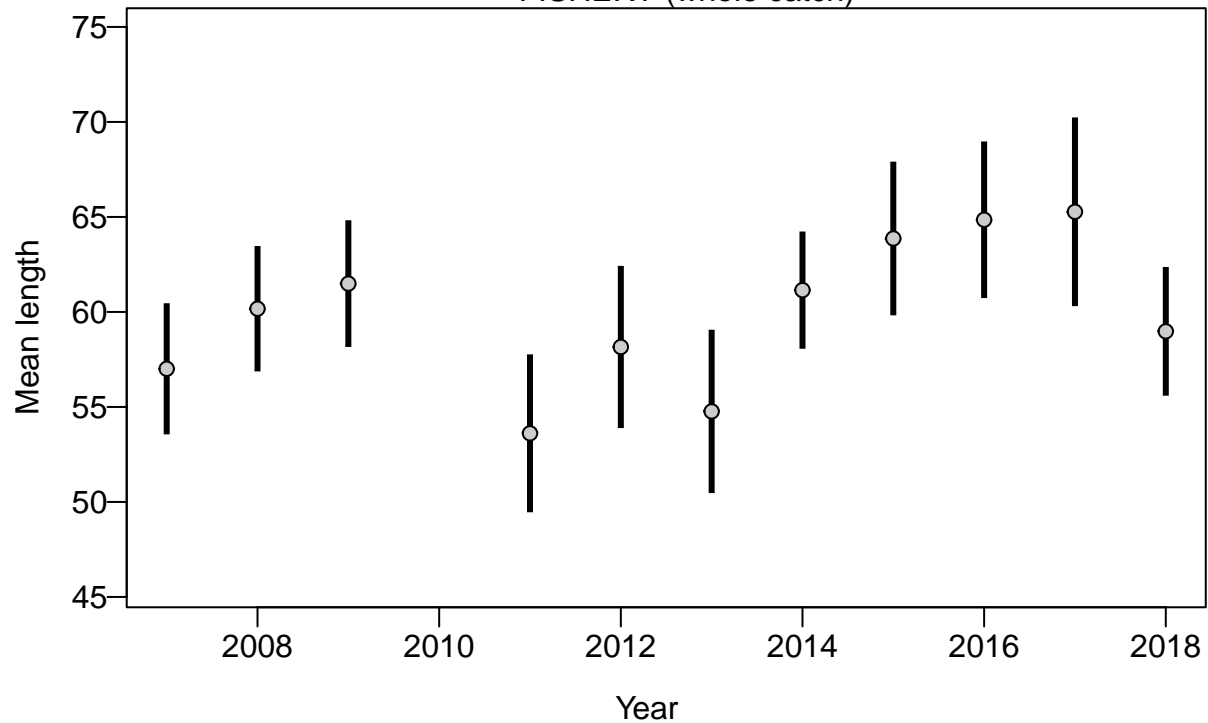
Proportion

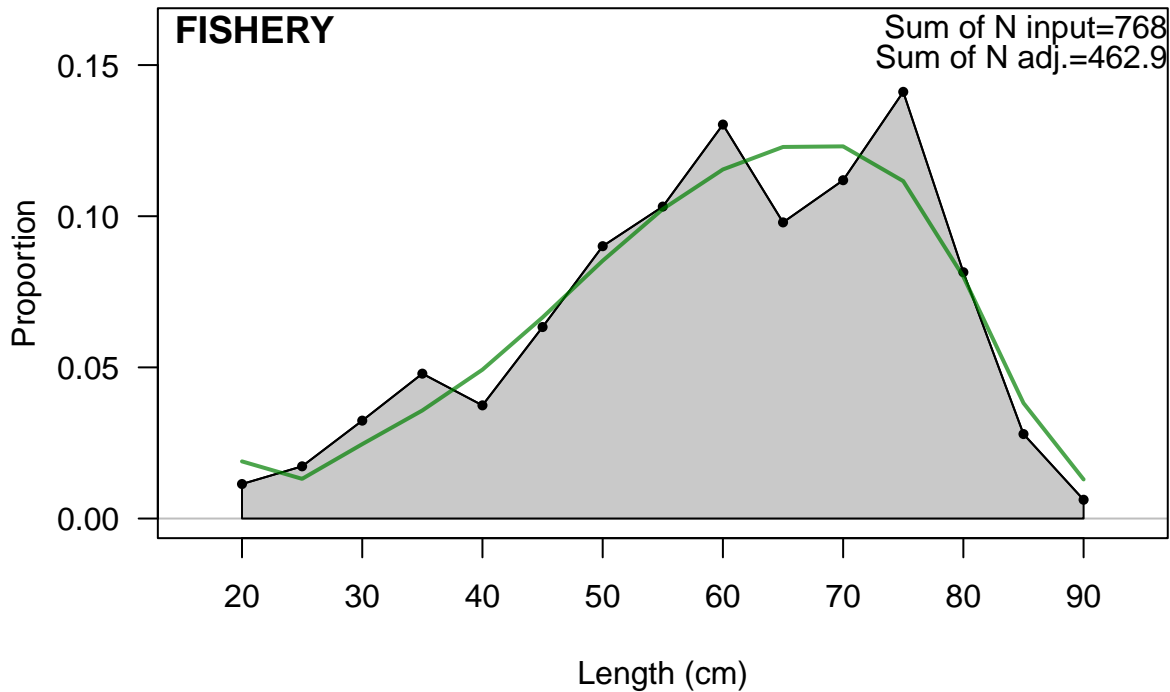


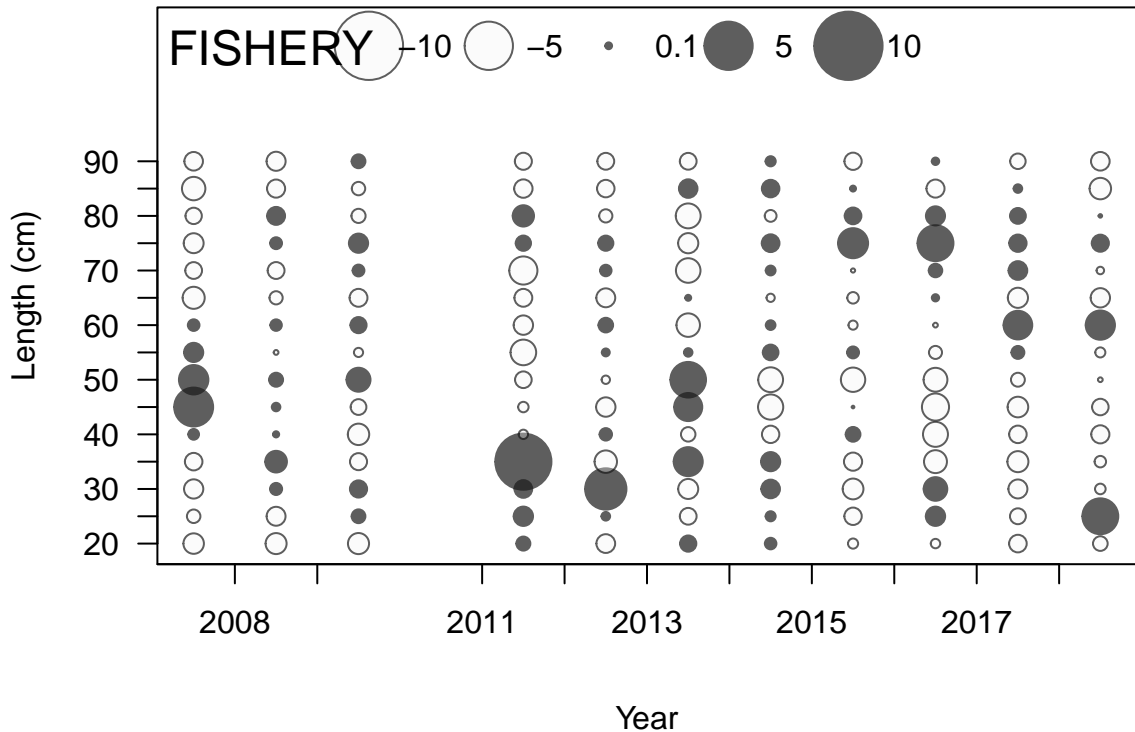
Length (cm)



FISHERY (whole catch)

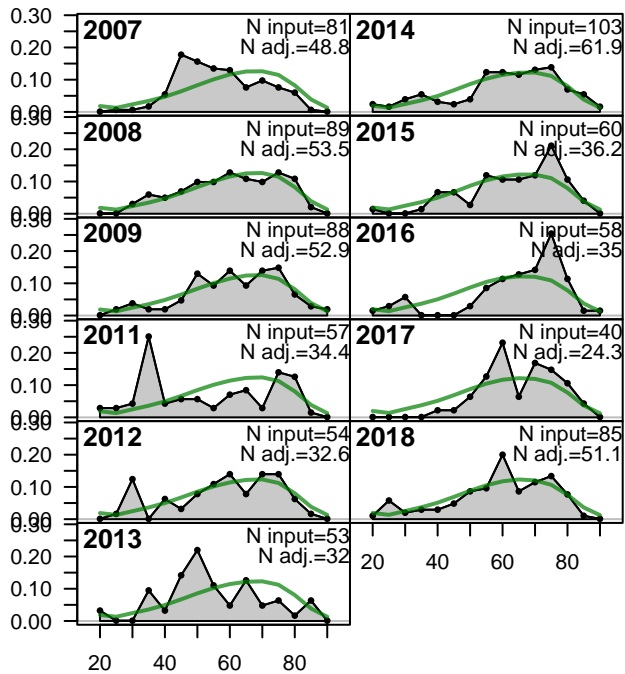




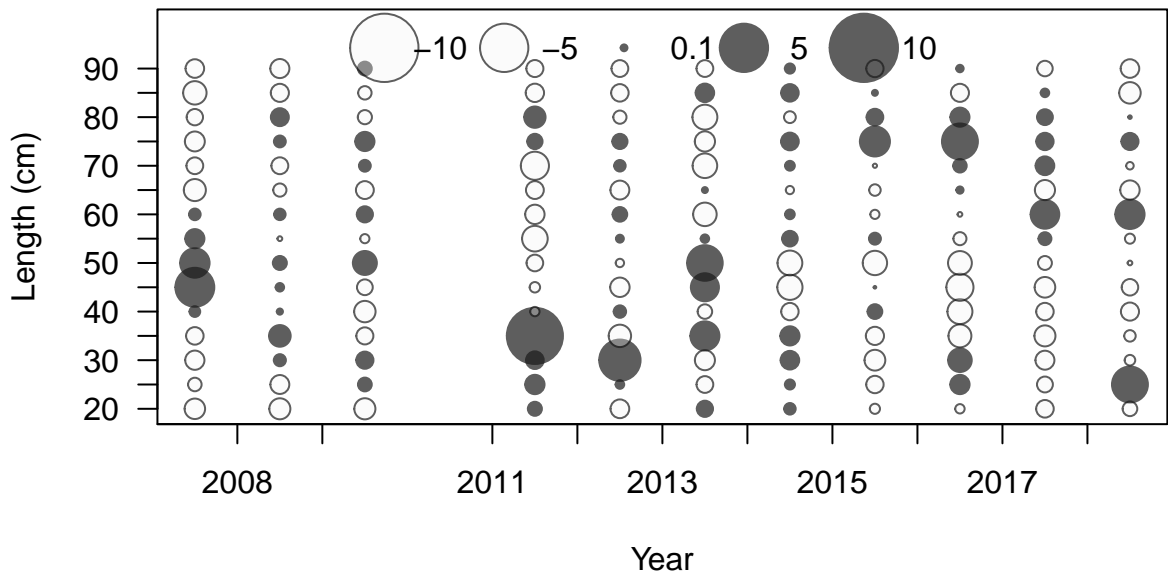




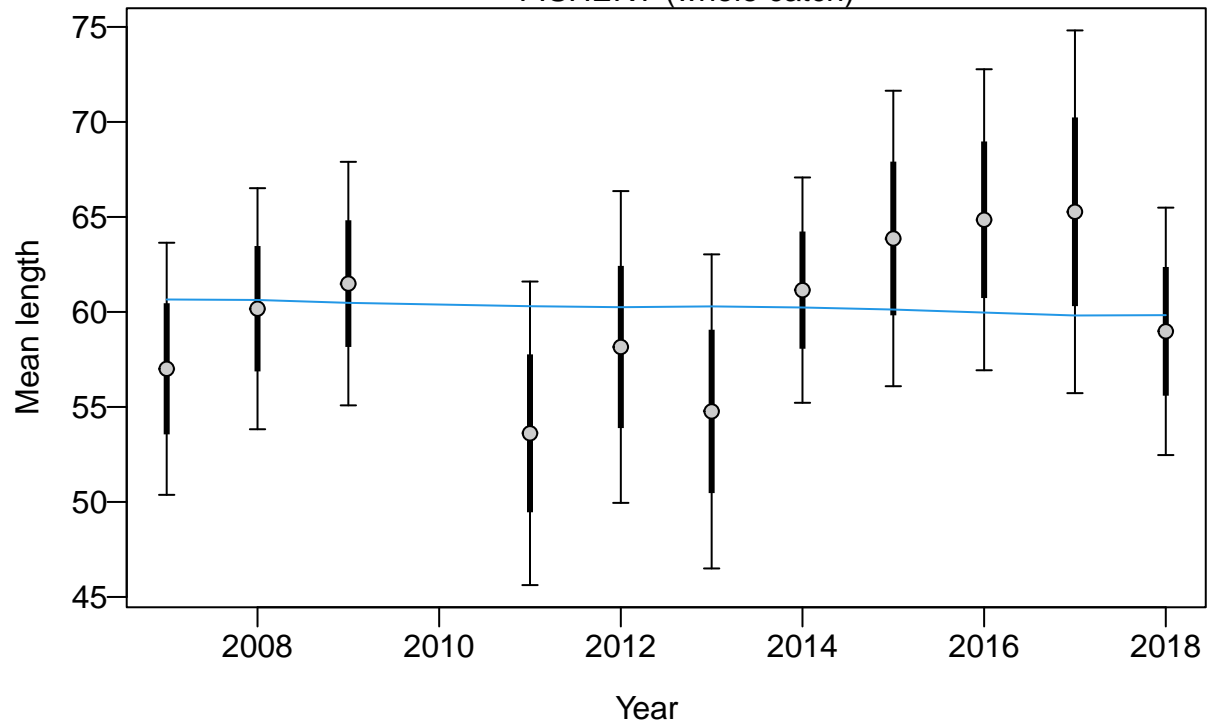
Proportion

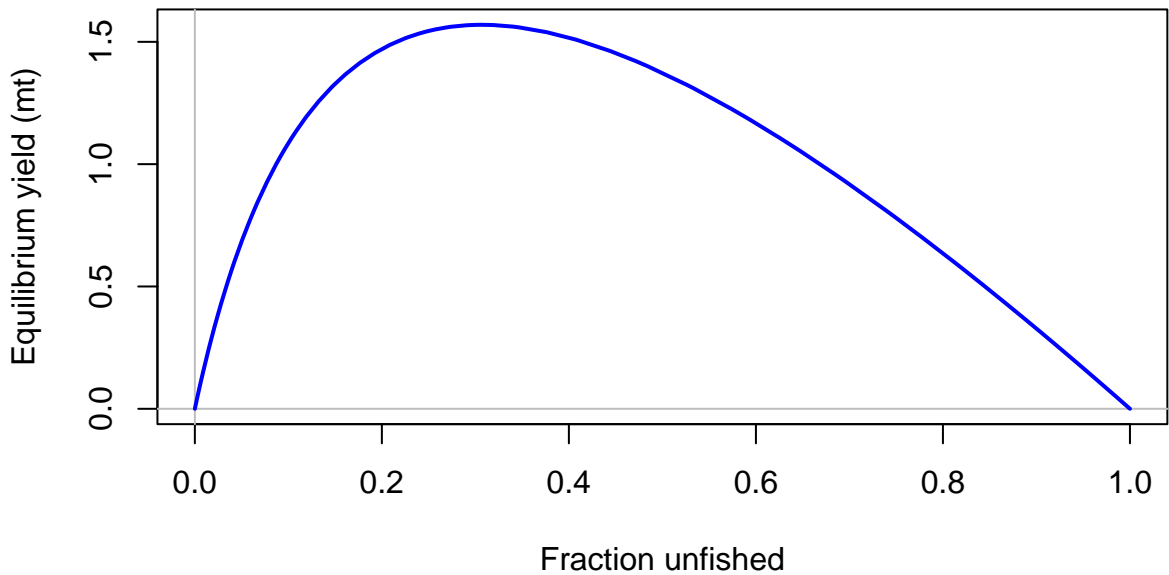


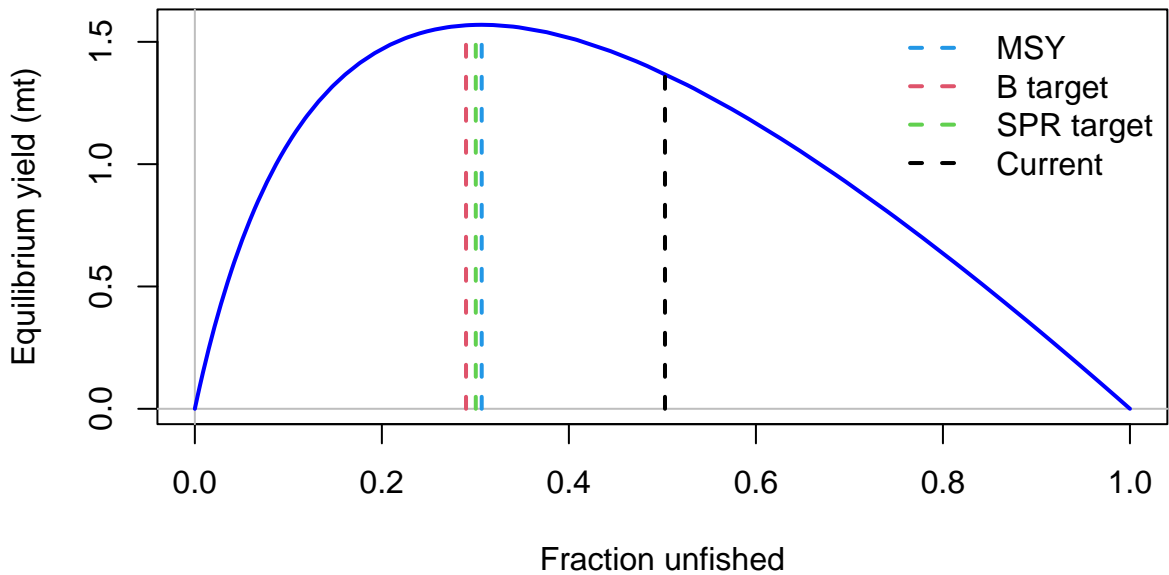
Length (cm)

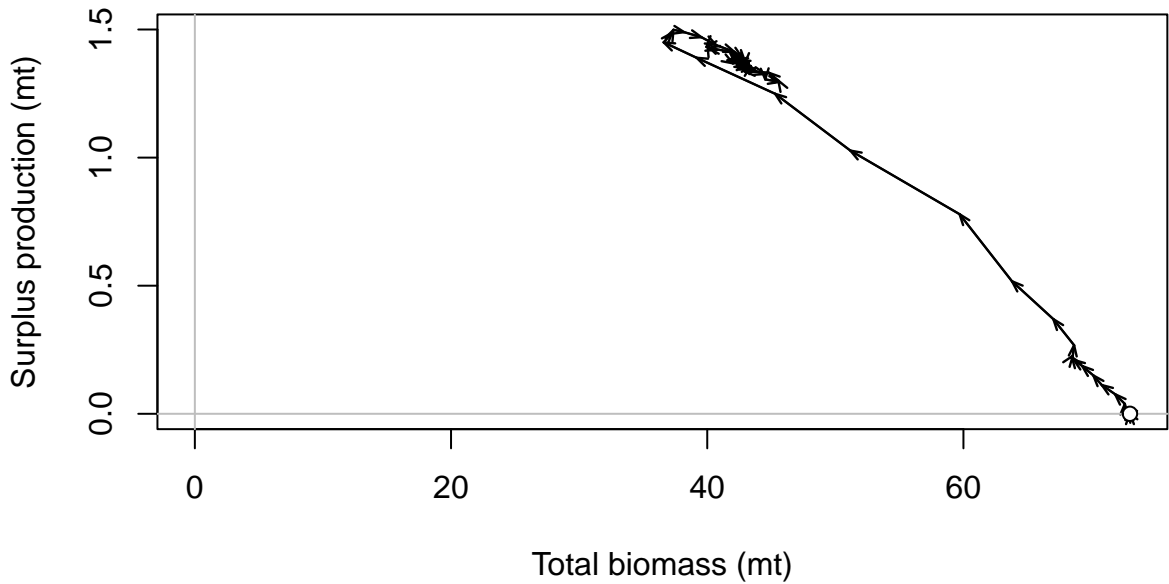


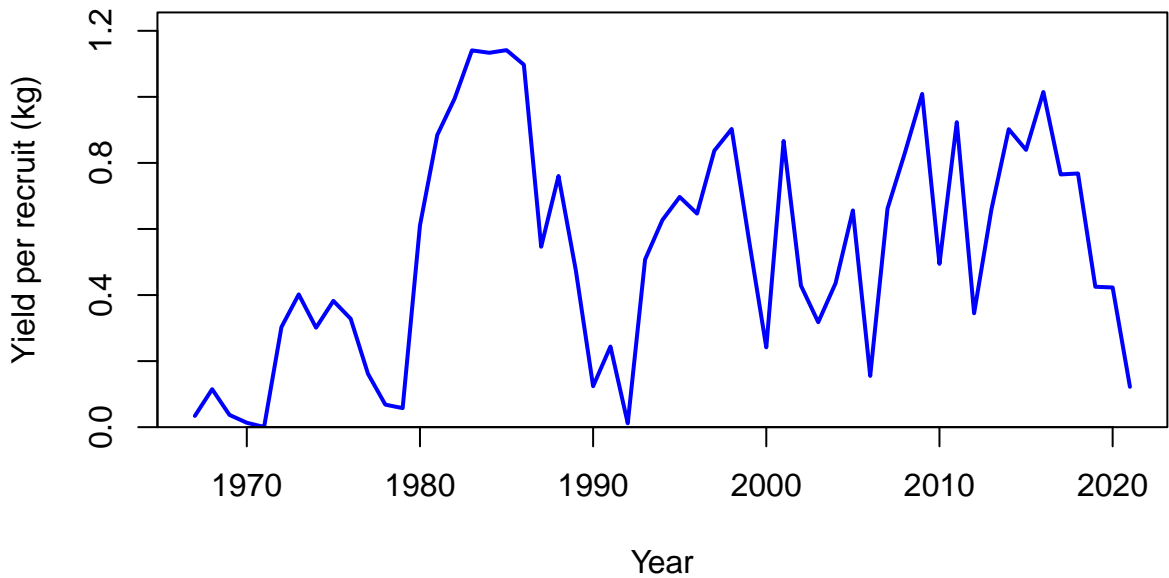
FISHERY (whole catch)

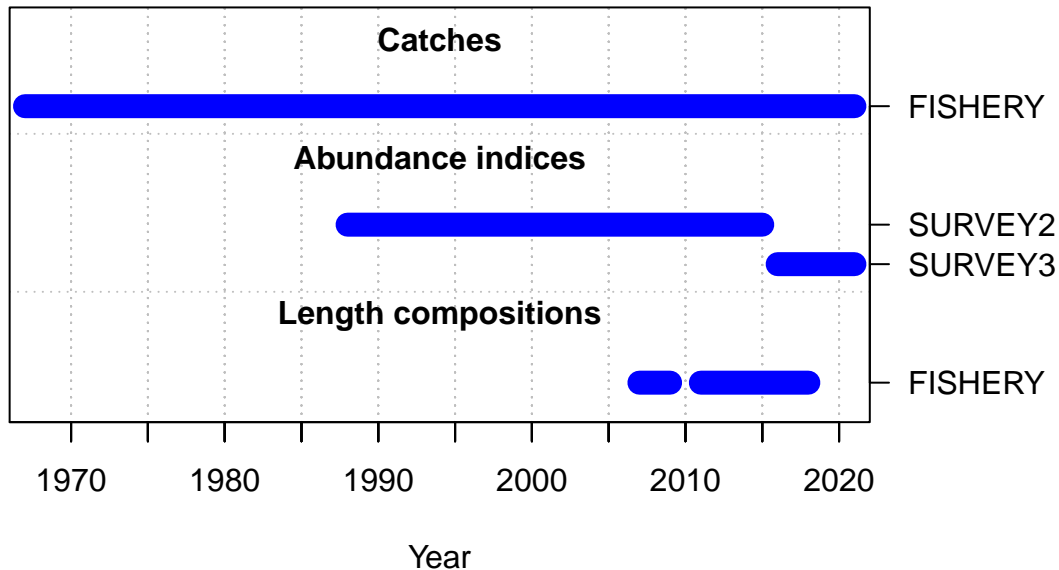




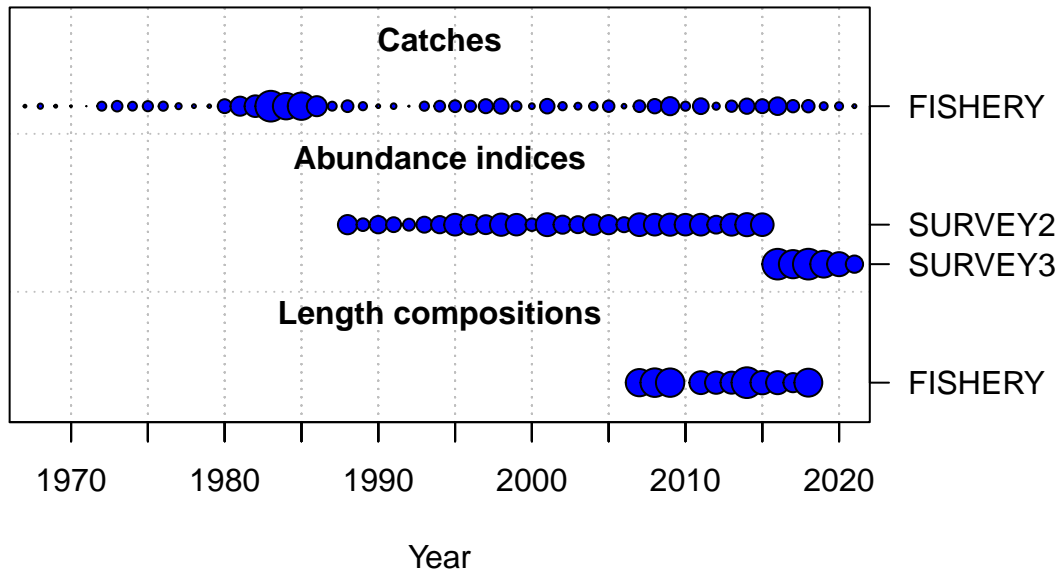








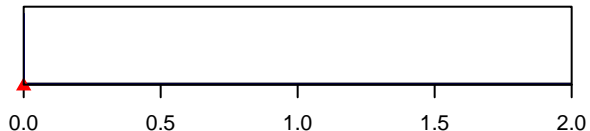




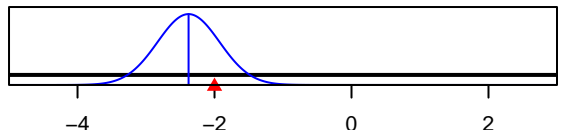
SR\_LN(R0)



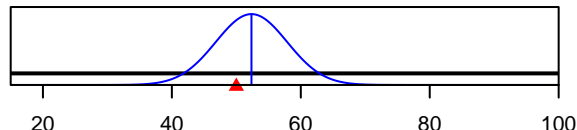
Q\_extraSD\_SURVEY3(3)



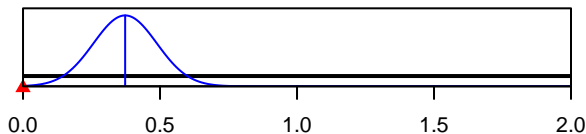
LnQ\_base\_SURVEY2(2)



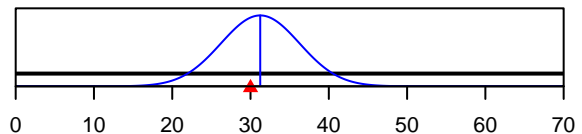
Size\_inflection\_FISHERY(1)



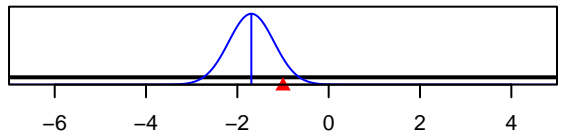
Q\_extraSD\_SURVEY2(2)



Size\_95%width\_FISHERY(1)



LnQ\_base\_SURVEY3(3)



ln(DM\_theta)\_1

