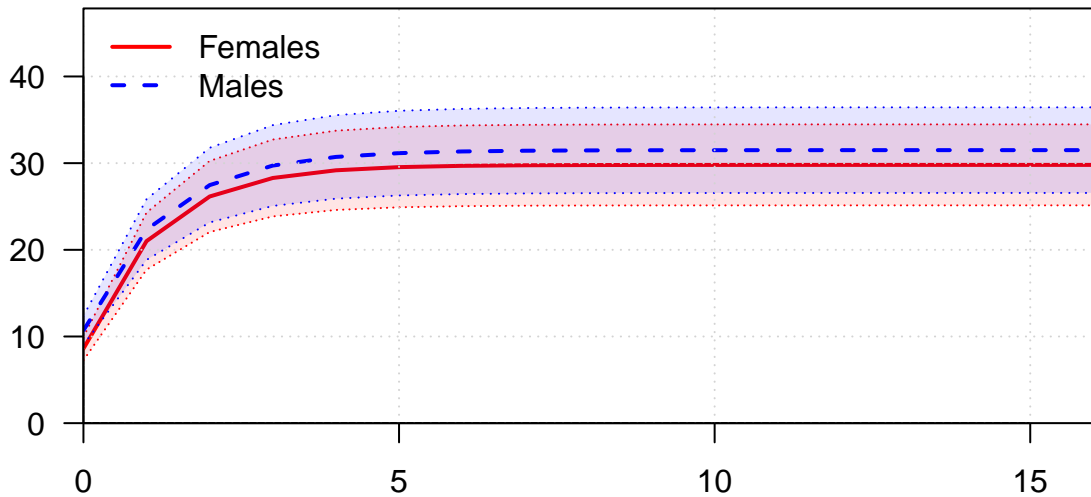
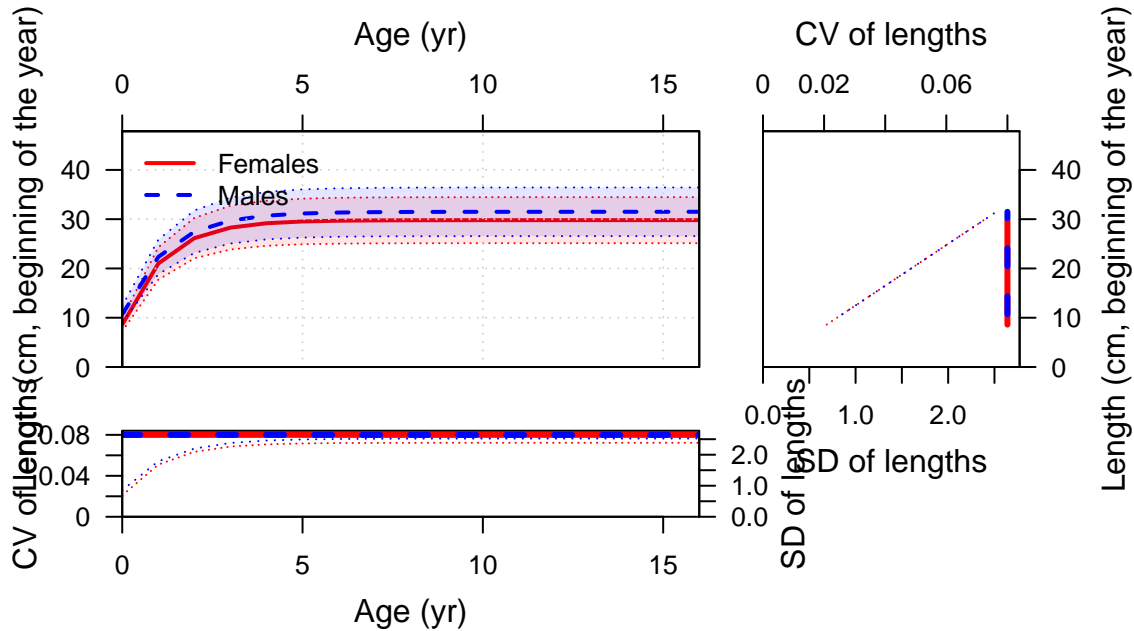


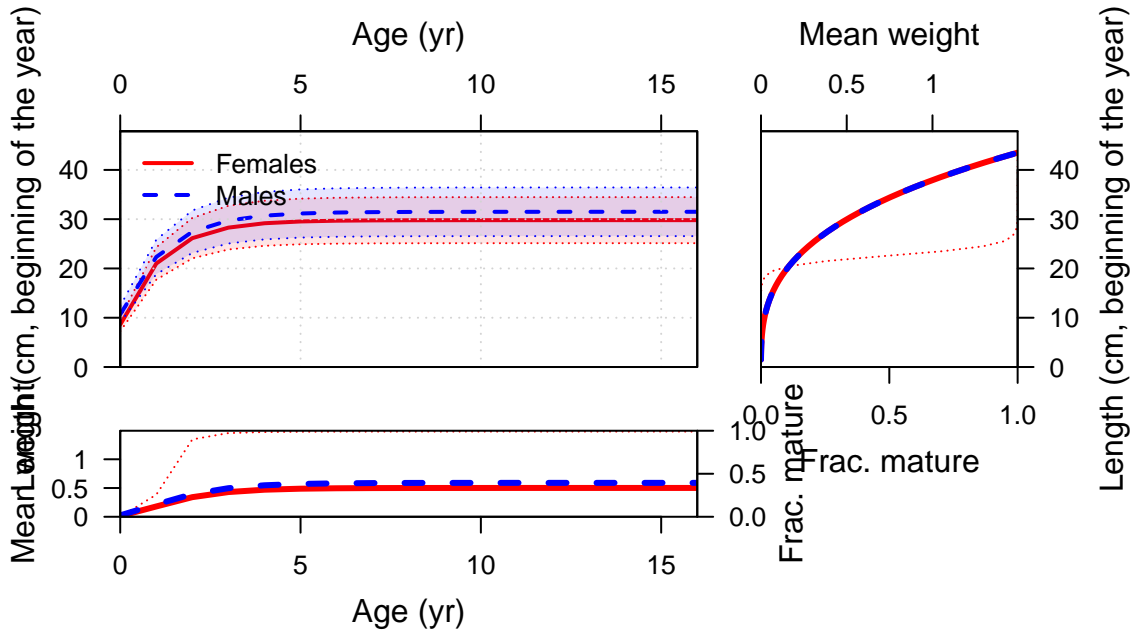
Plots created using the 'r4ss' package in R  
Stock Synthesis version: 3.30.19.0  
StartTime: Fri Jul 22 08:48:54 2022  
Data\_File: data.ss  
Control\_File: control.ss

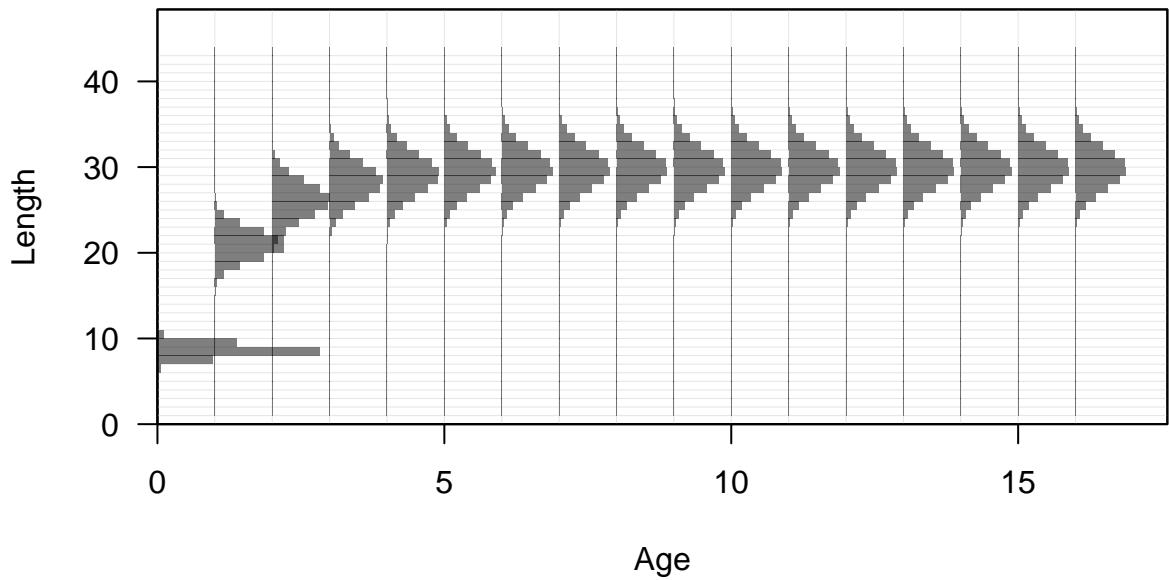
Length (cm, beginning of the year)

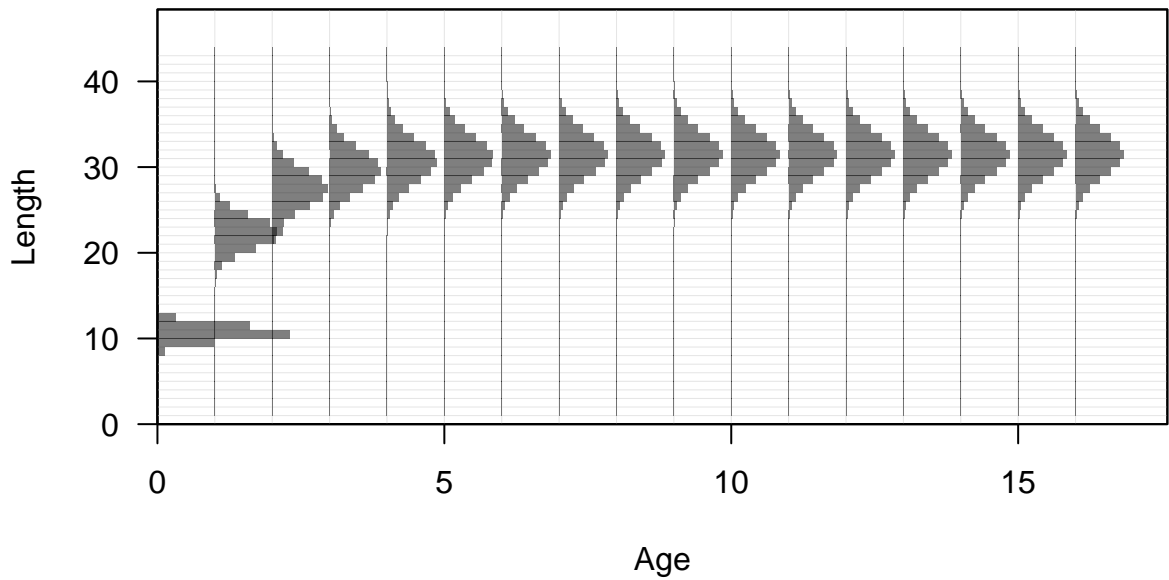


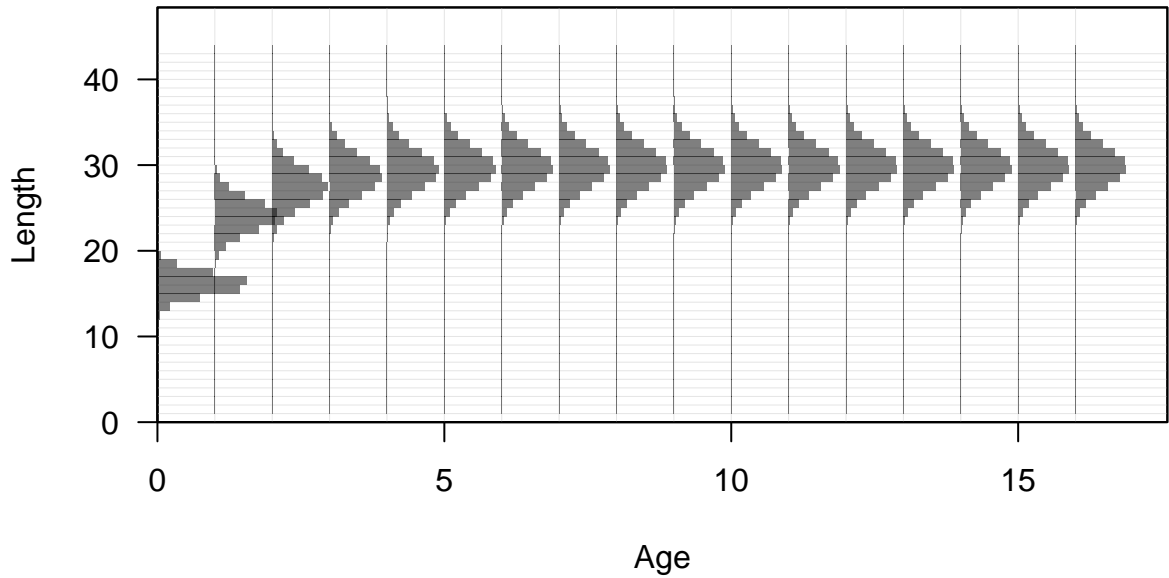
Age (yr)

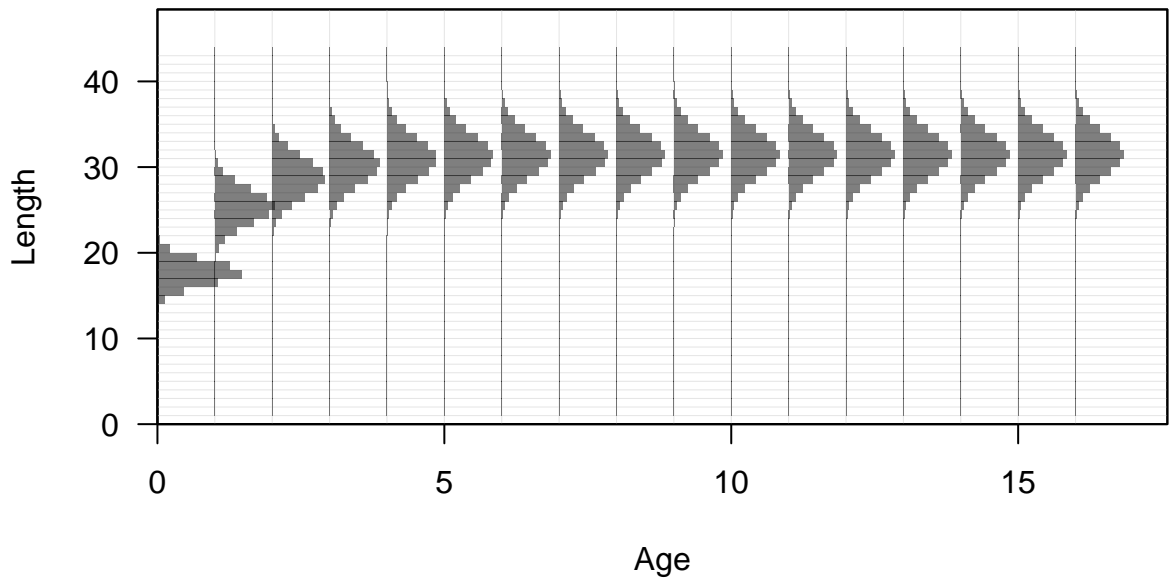




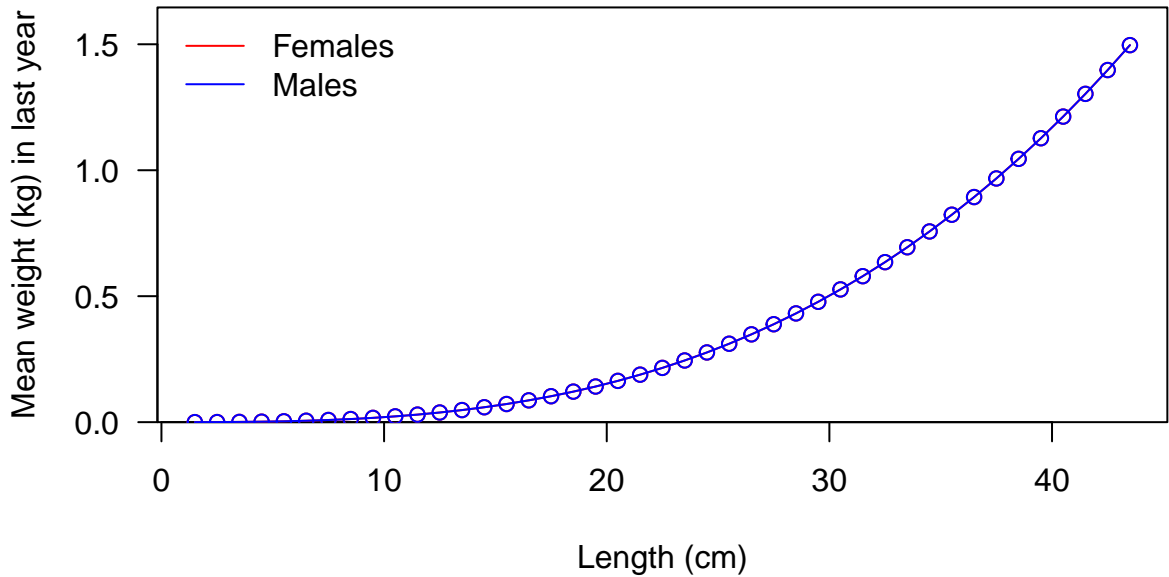


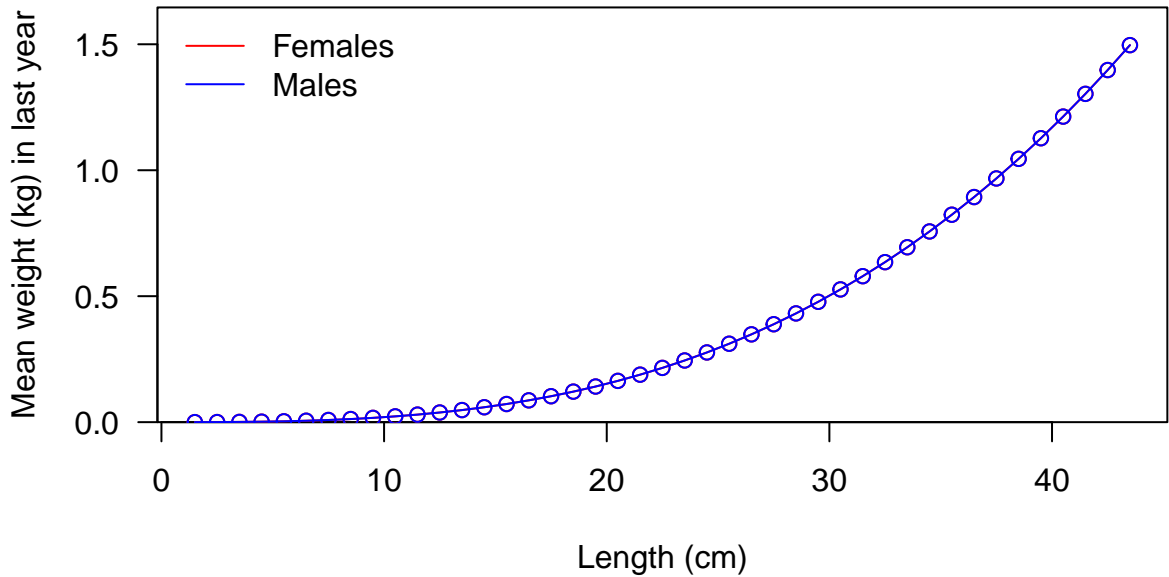


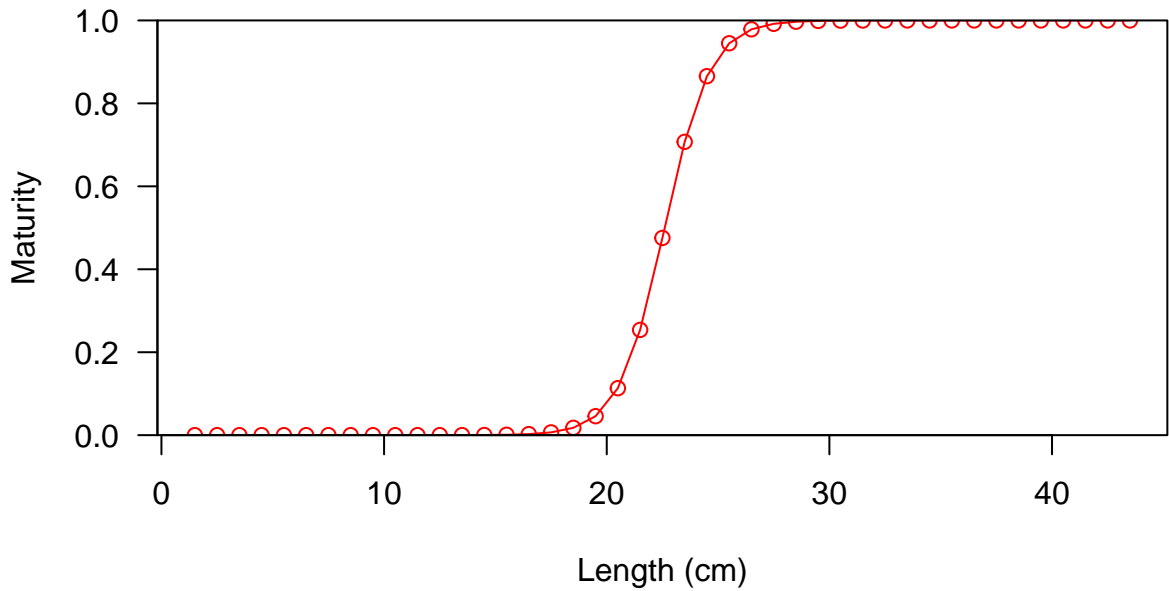


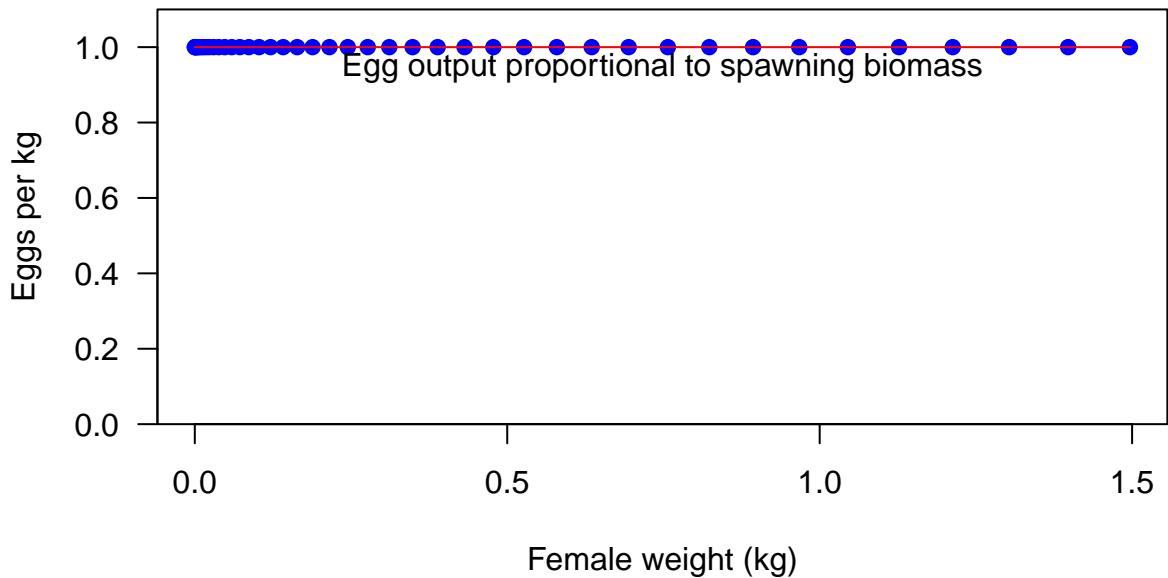


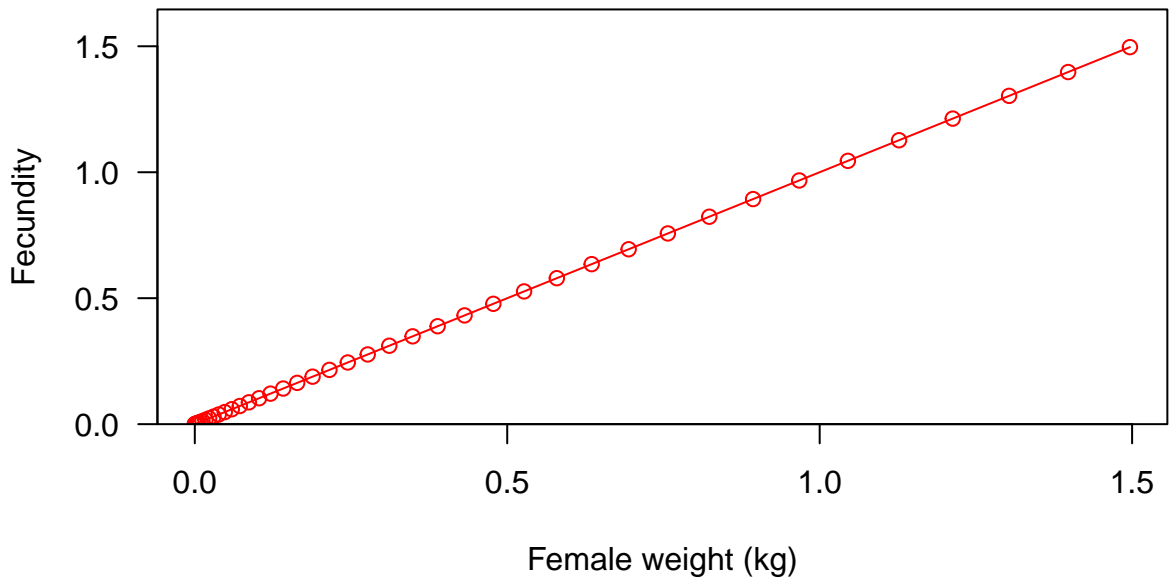


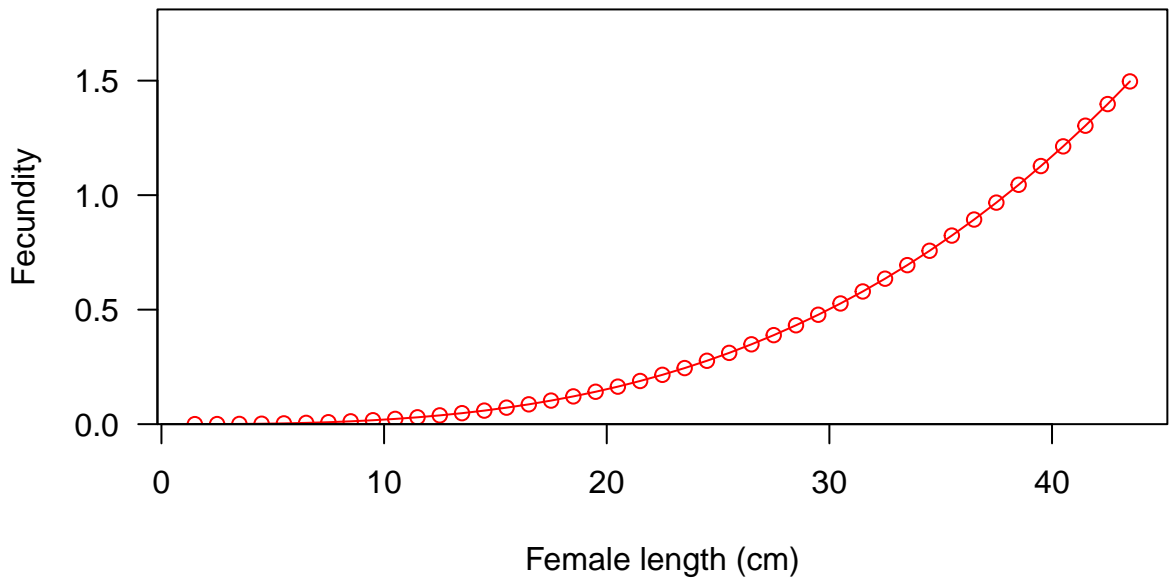


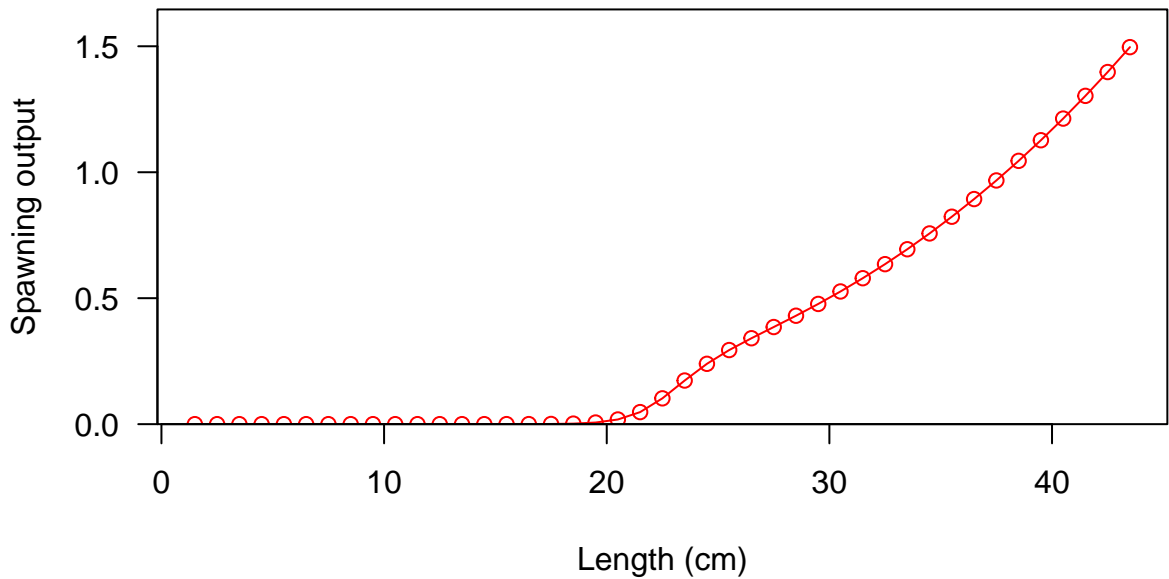


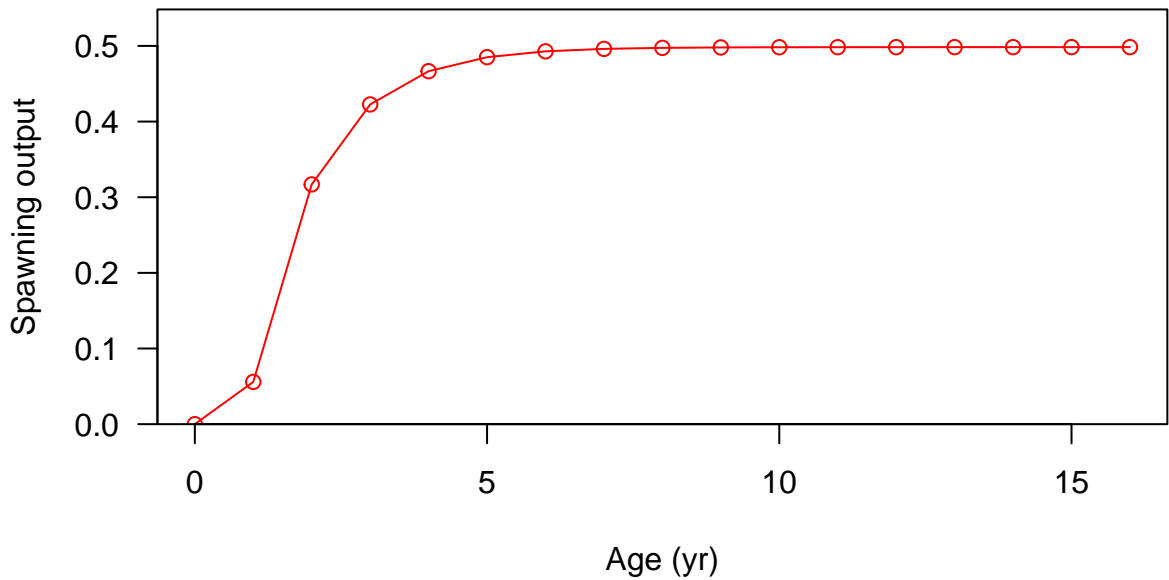




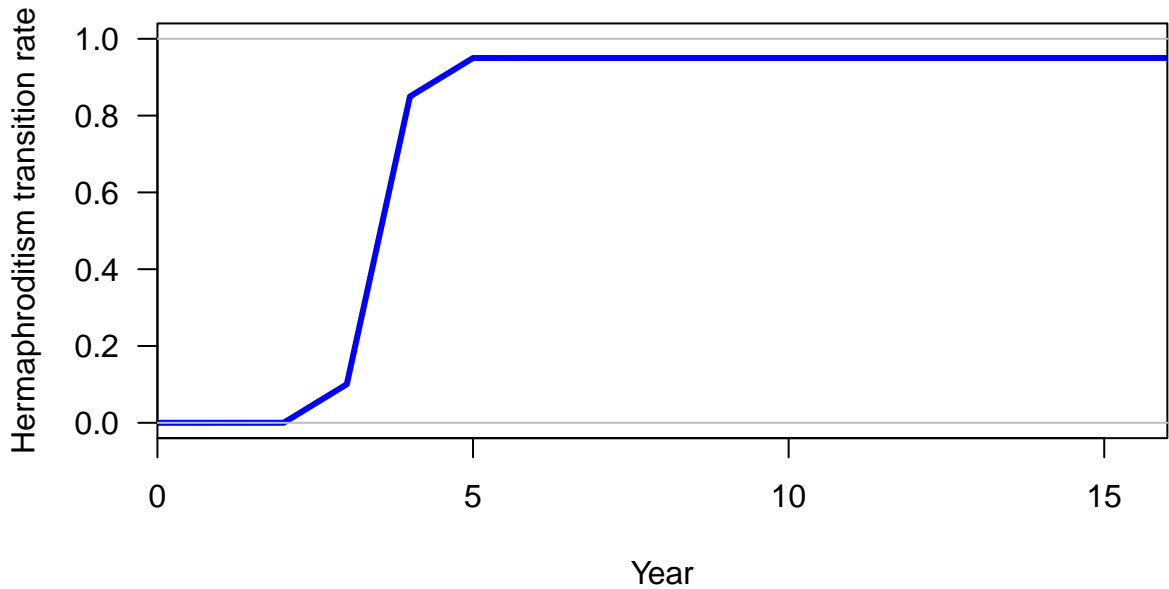




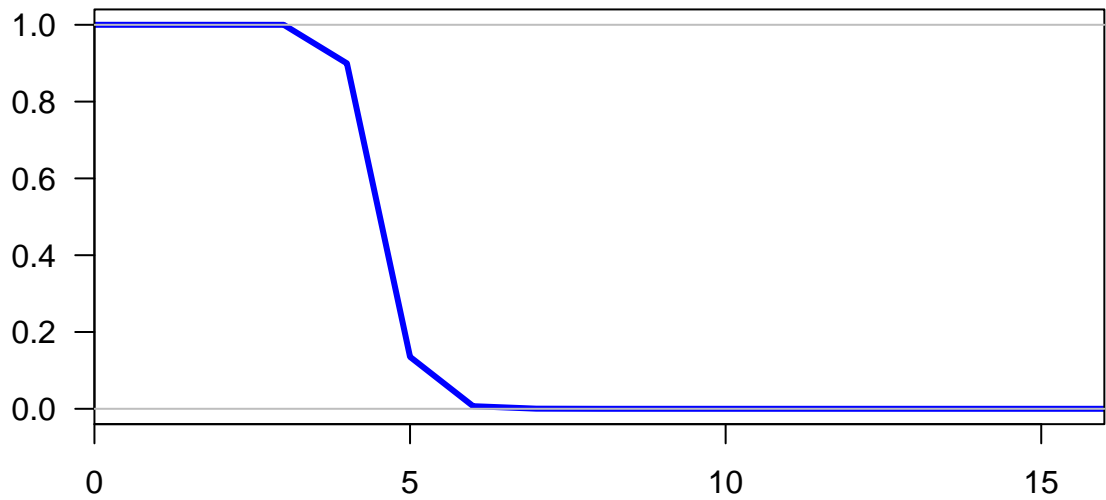






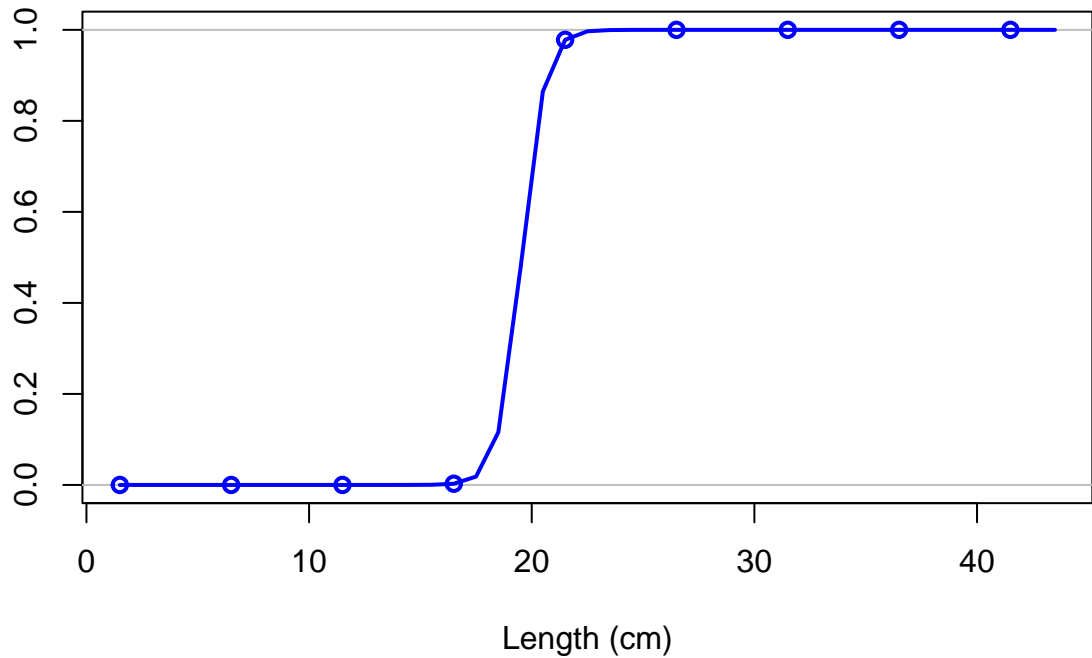


Fraction females by age at equilibrium

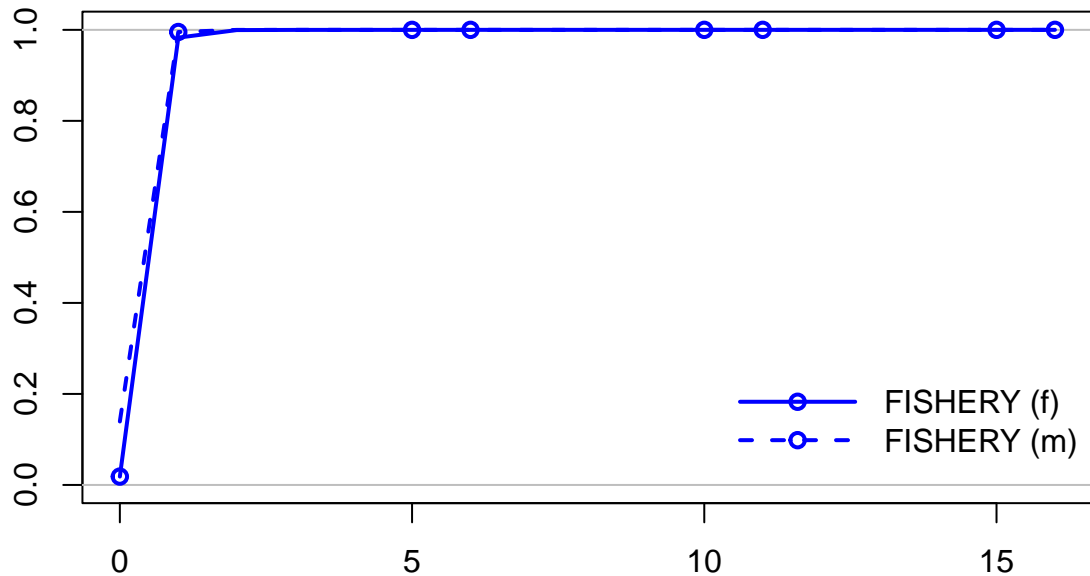


Age (yr)

Selectivity

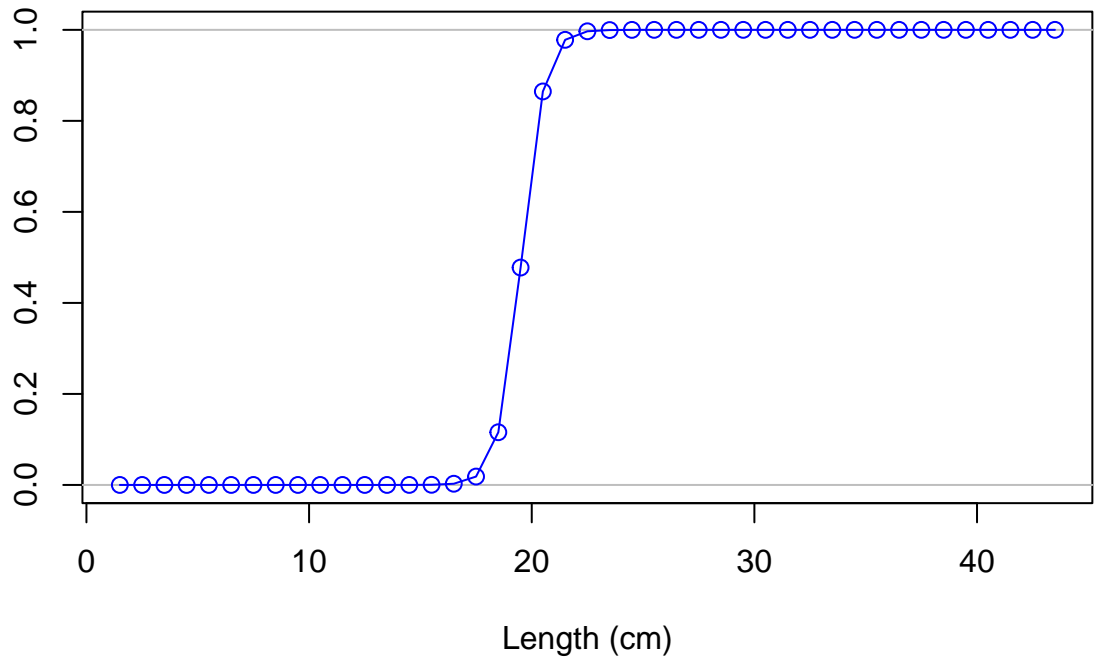


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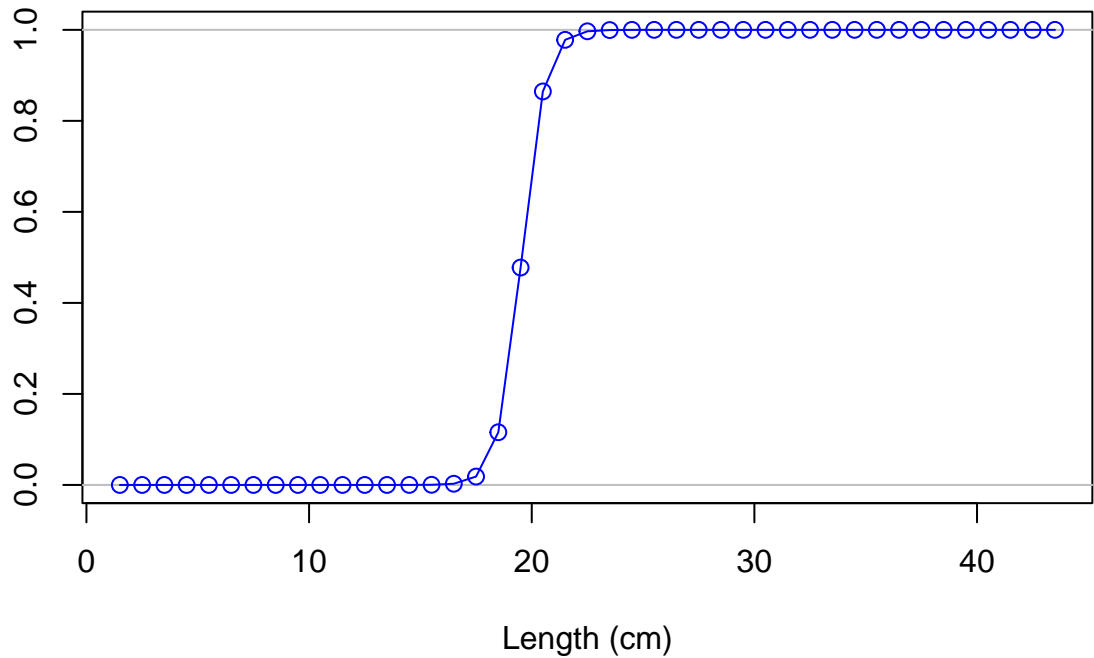


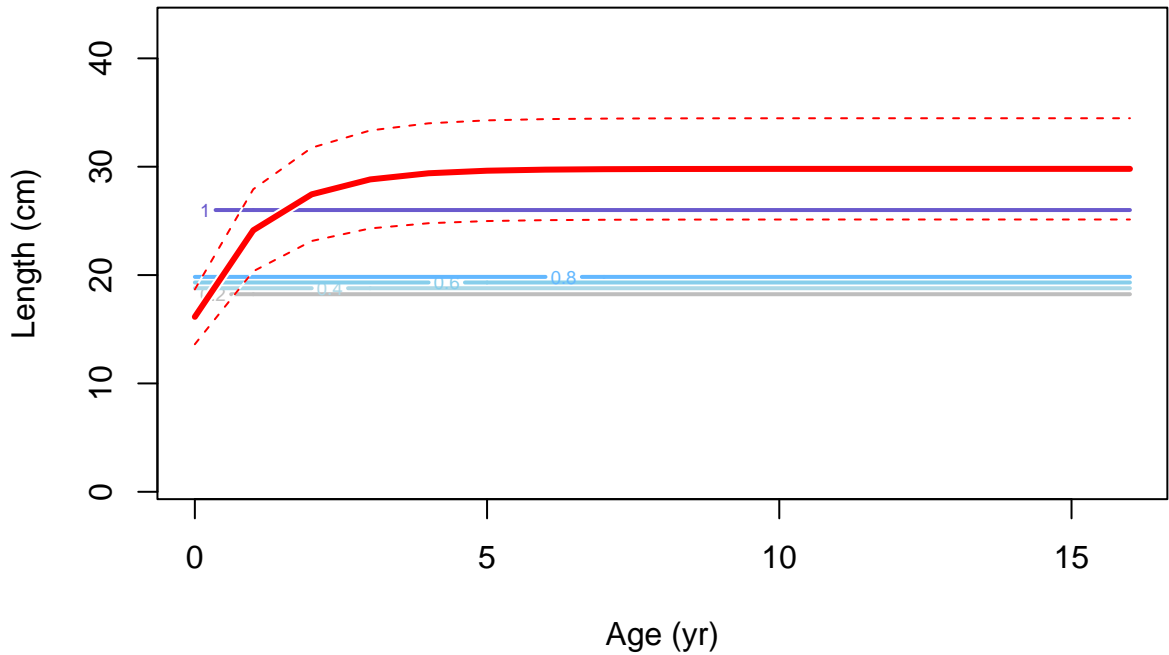
Age (yr)

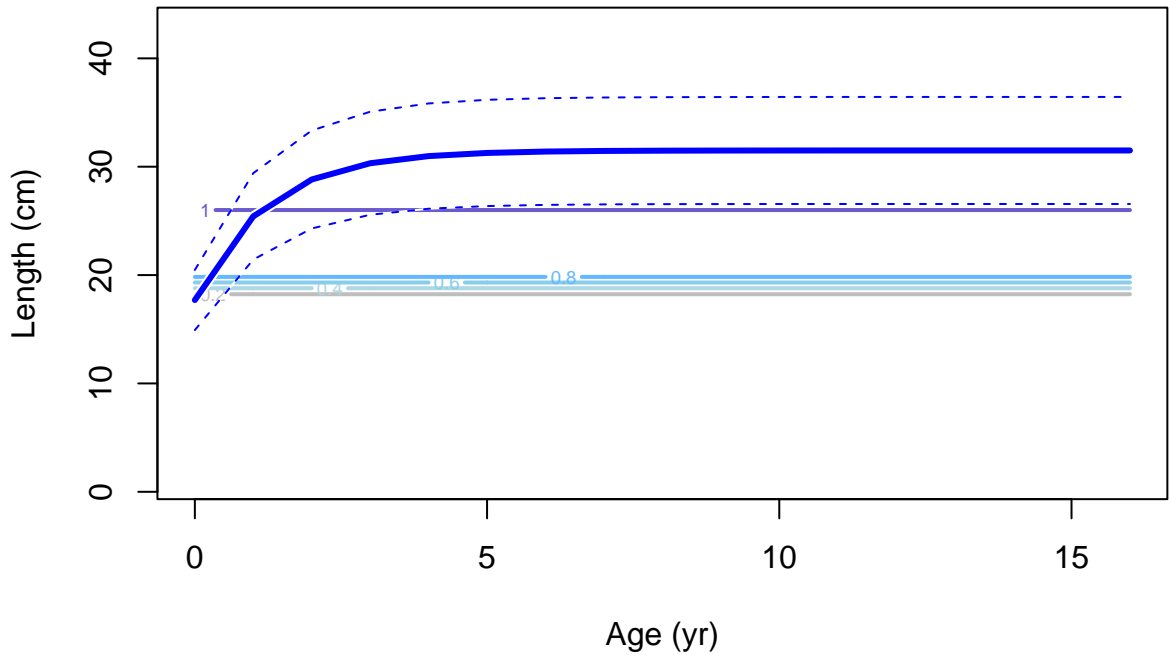
Selectivity



Selectivity

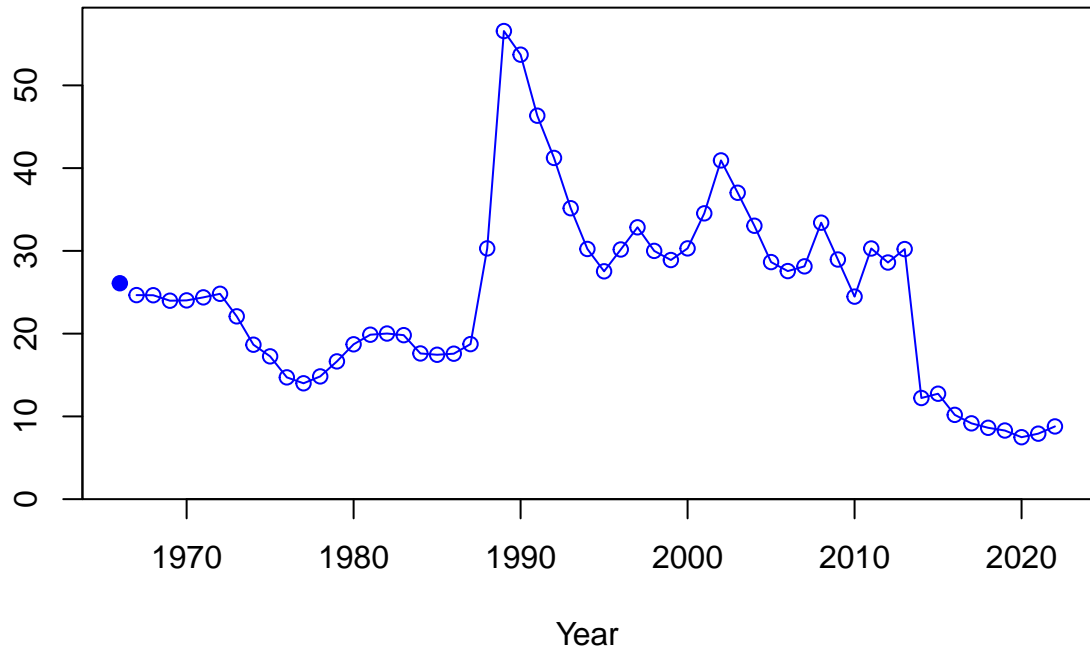




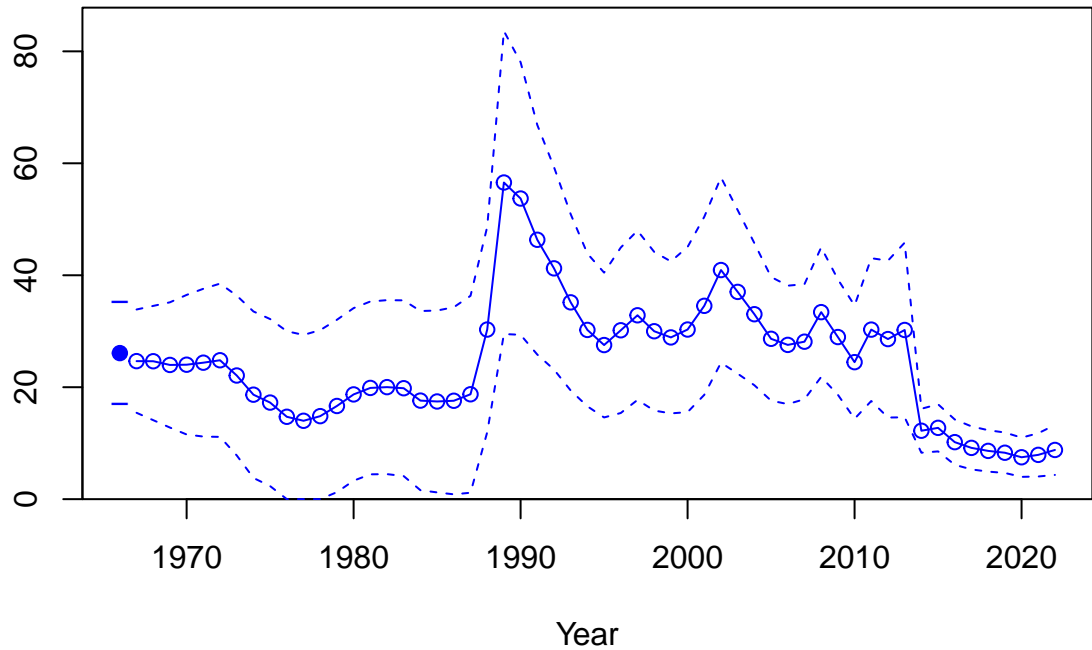




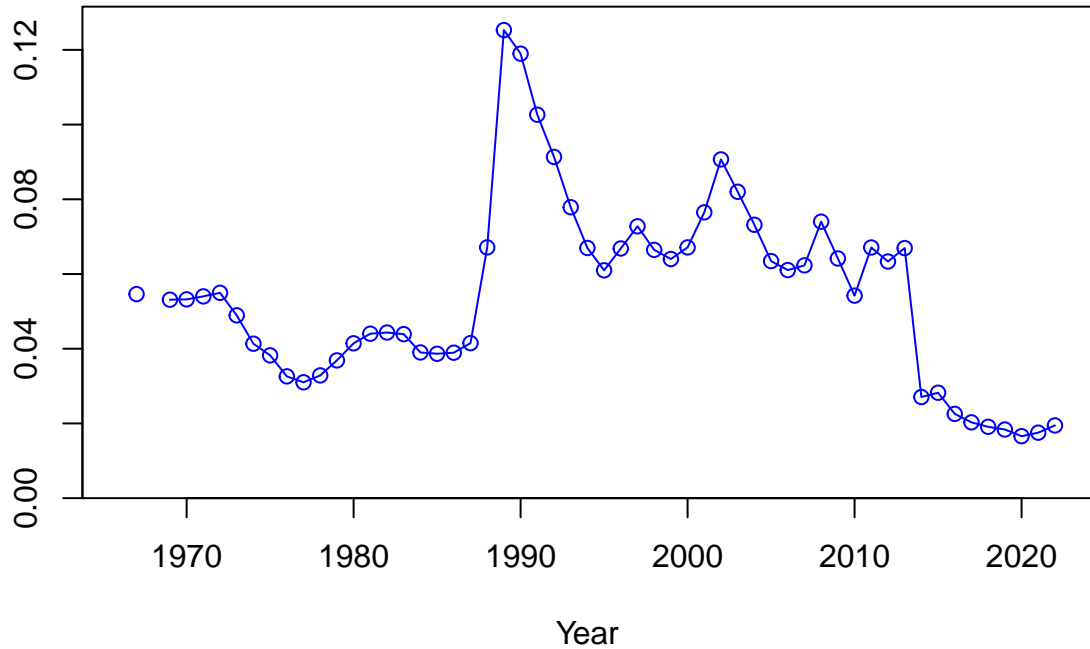
Spawning biomass (mt)



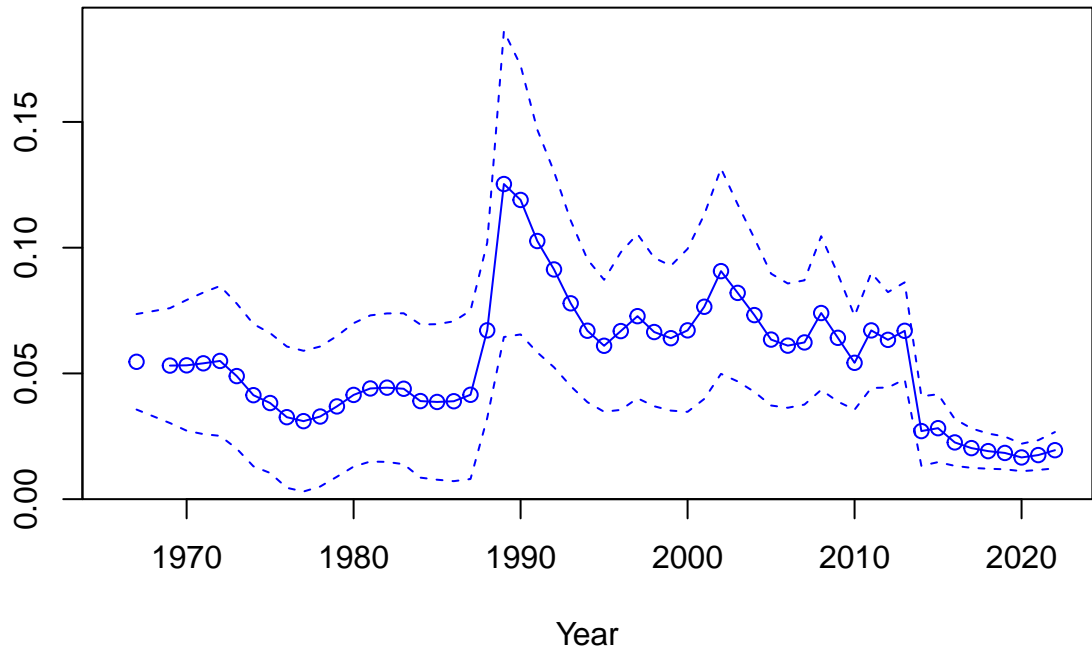
Spawning biomass (mt)

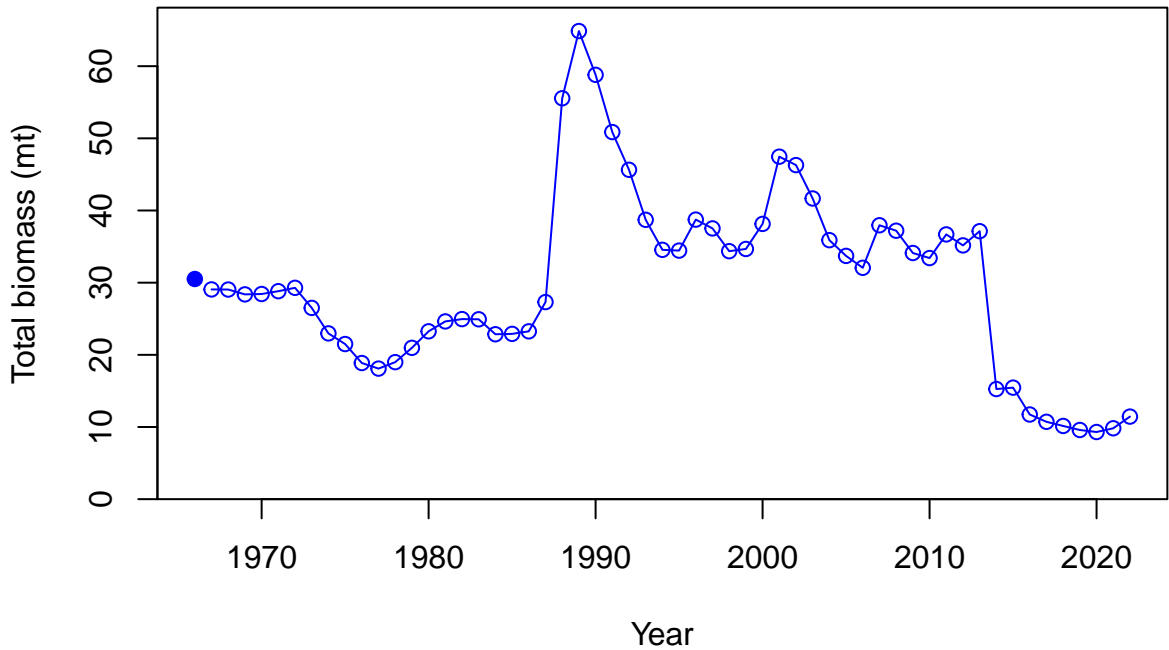


Relative spawning biomass:  $B/B_{MSY}$

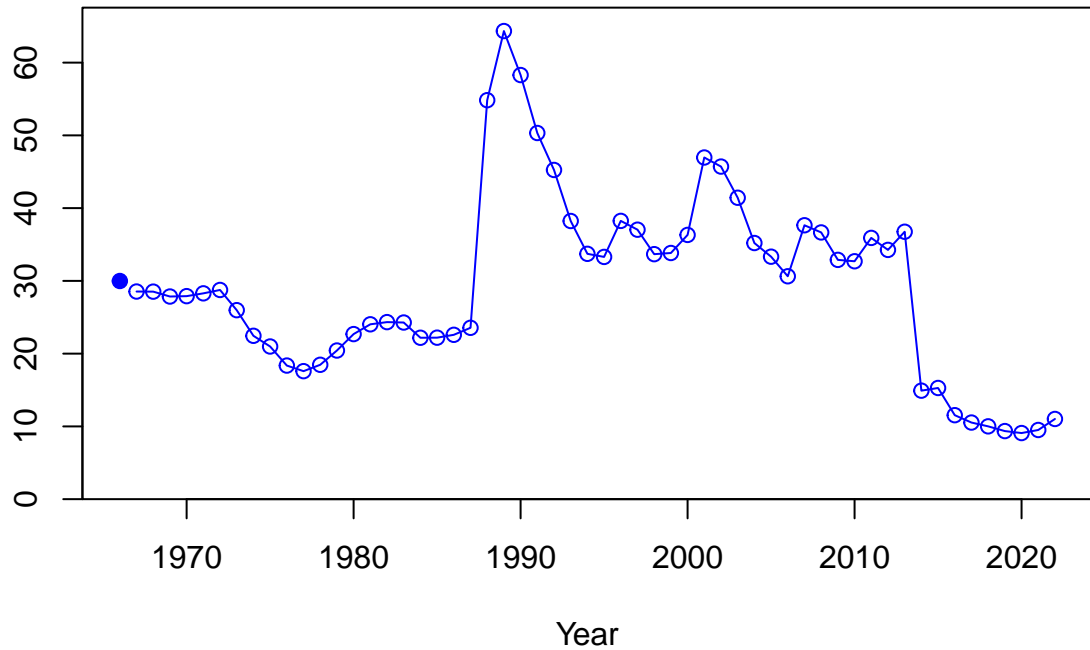


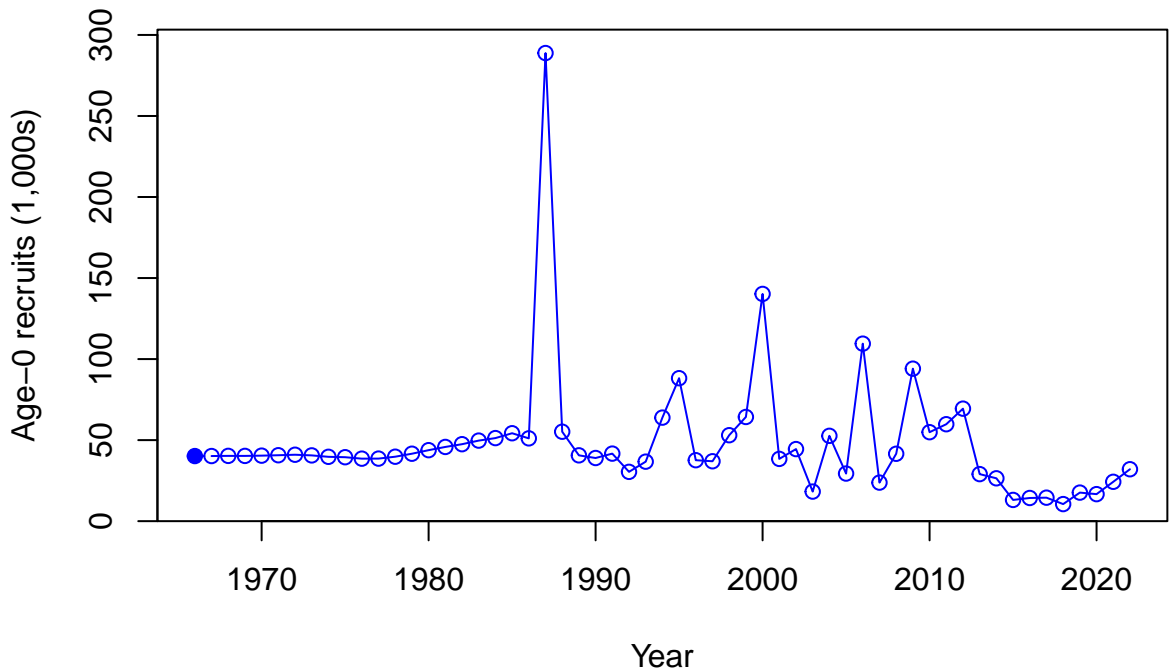
Relative spawning biomass:  $B/B_{MSY}$



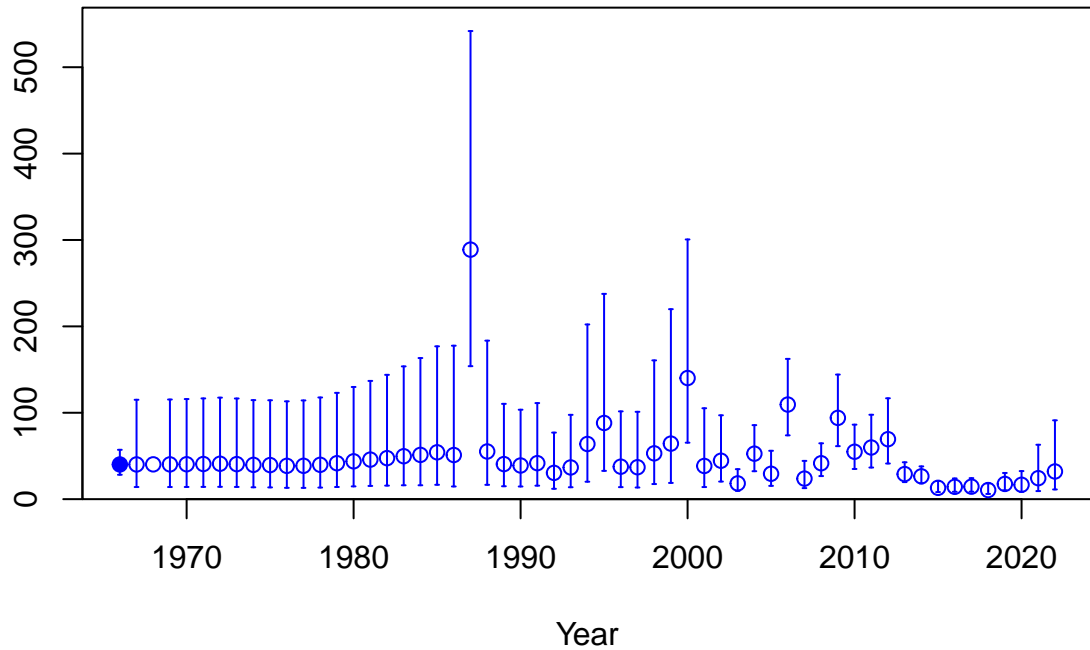


Summary biomass (mt)



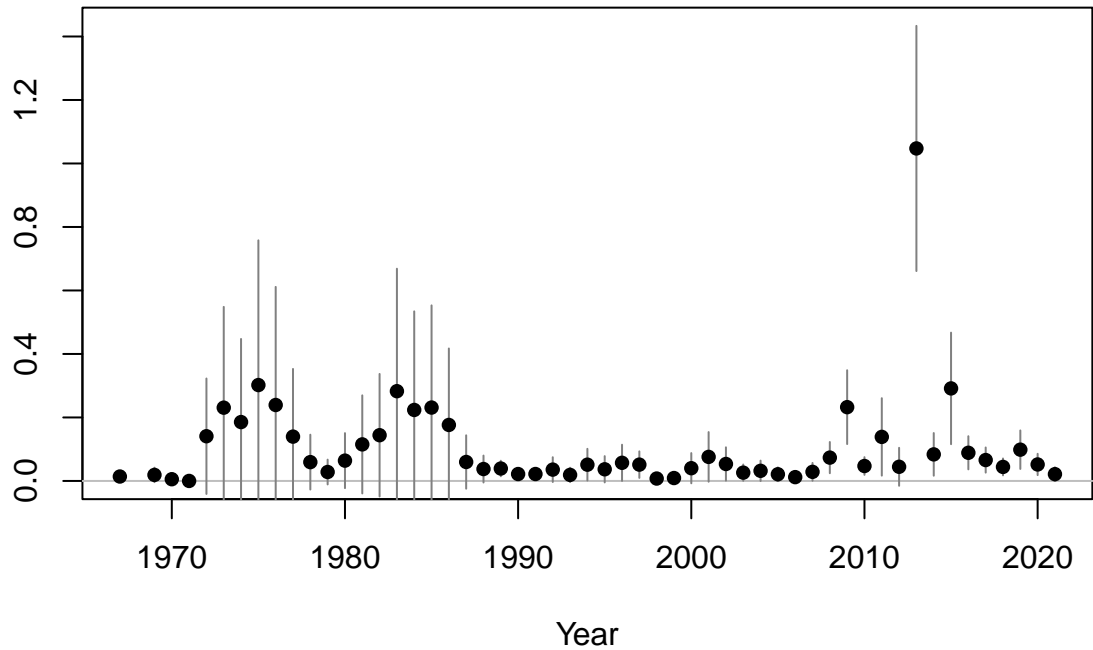


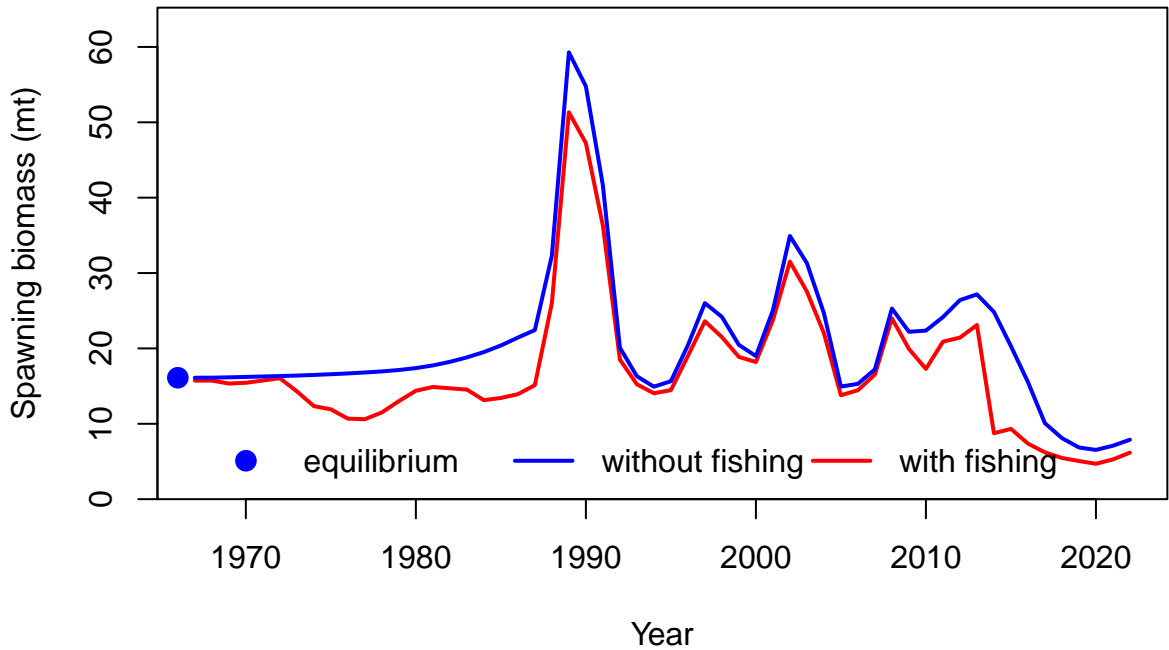
Age-0 recruits (1,000s)



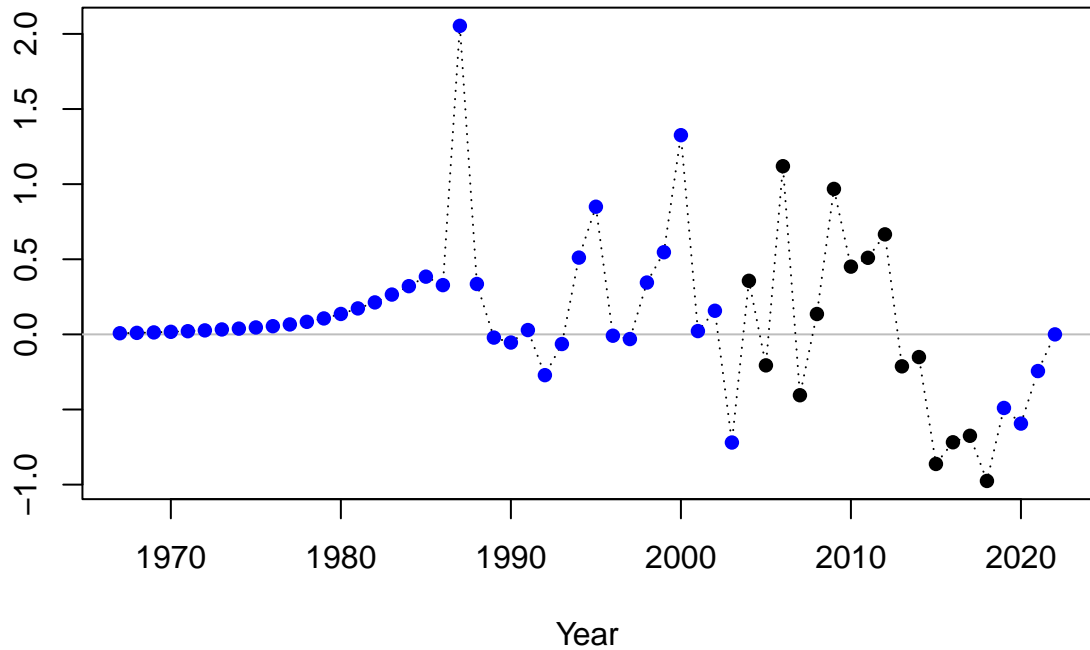


Summary Fishing Mortality

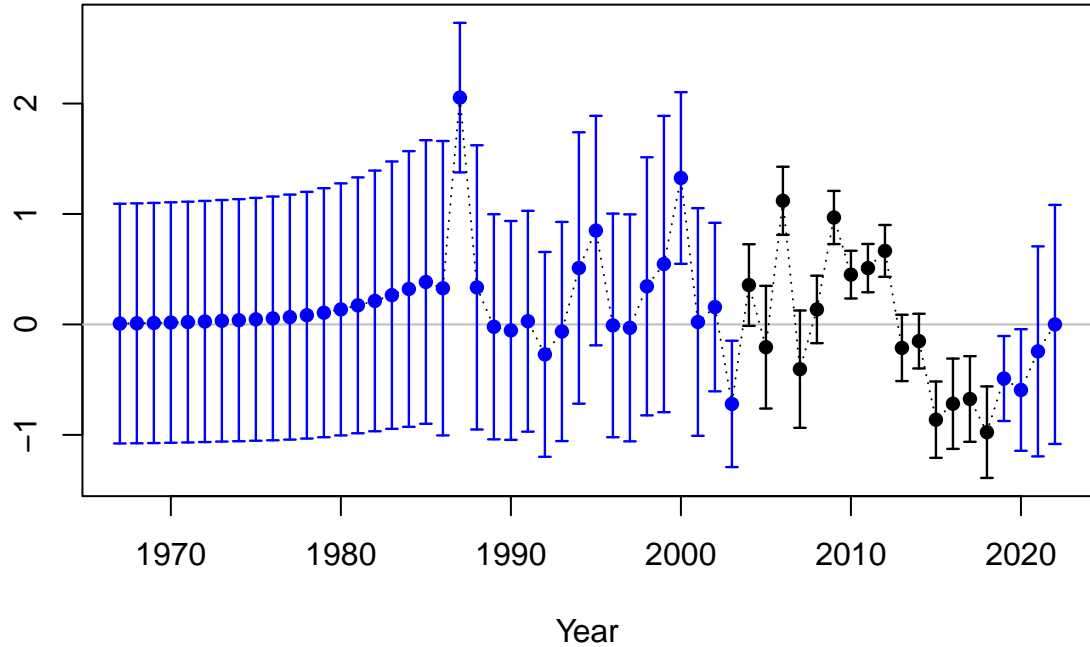




Log recruitment deviation

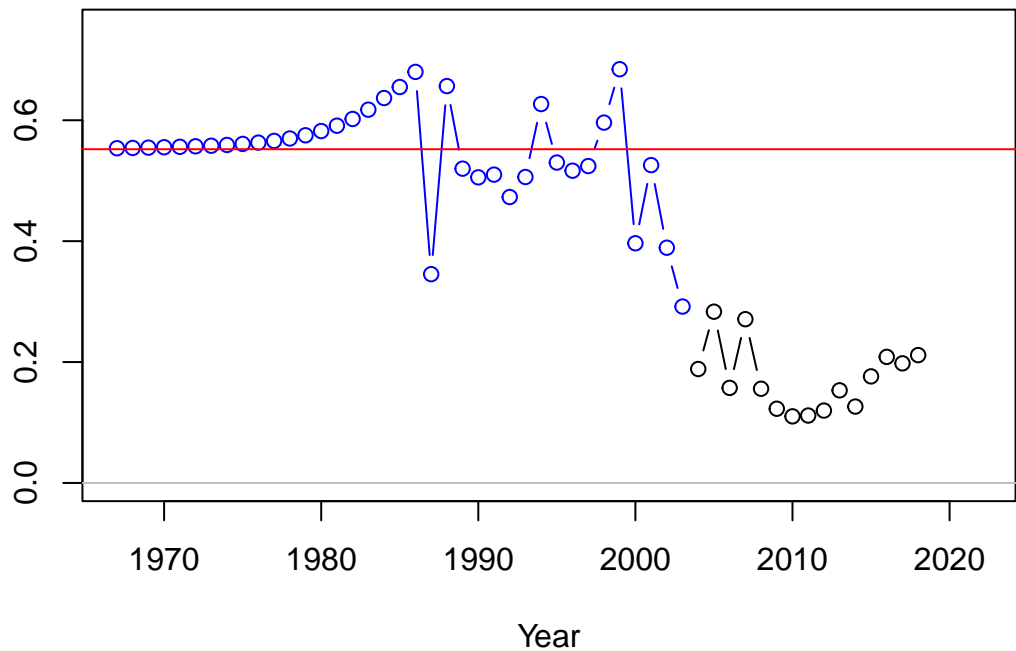


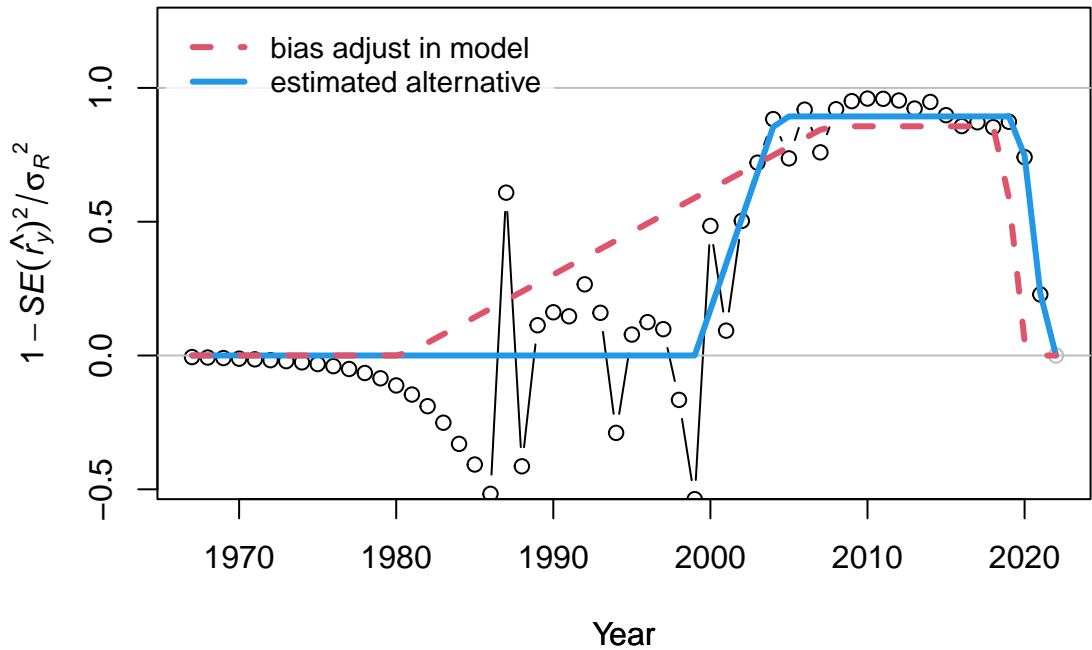
Log recruitment deviation

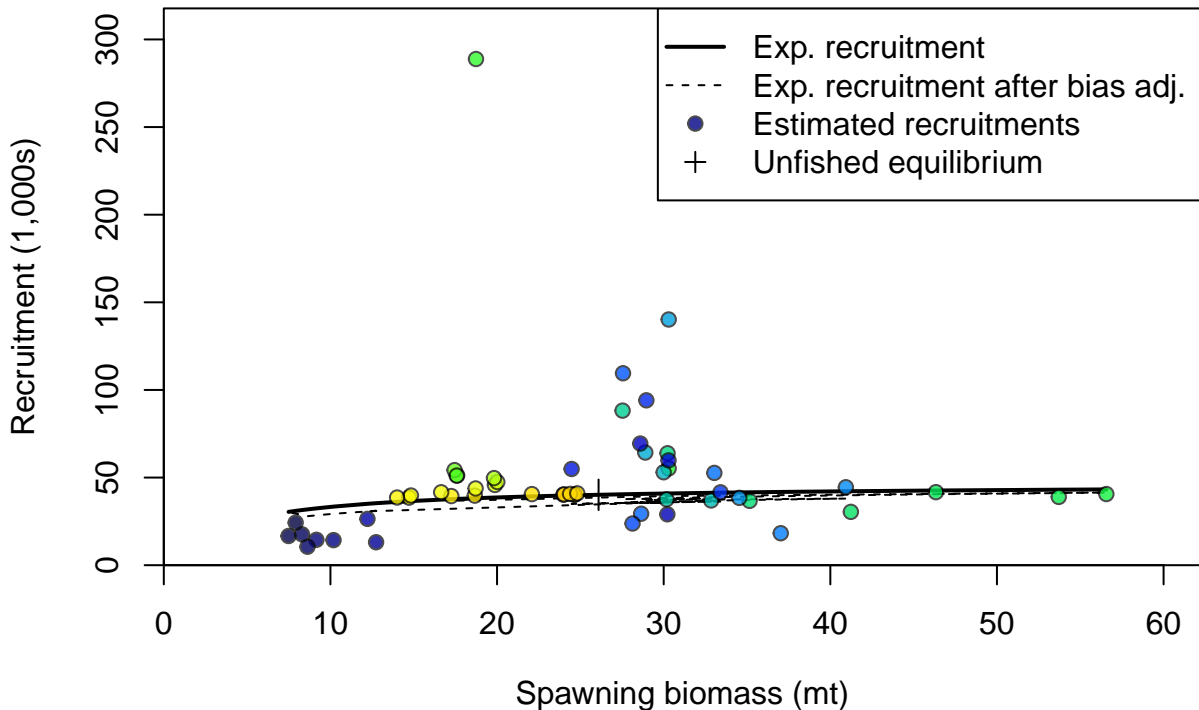


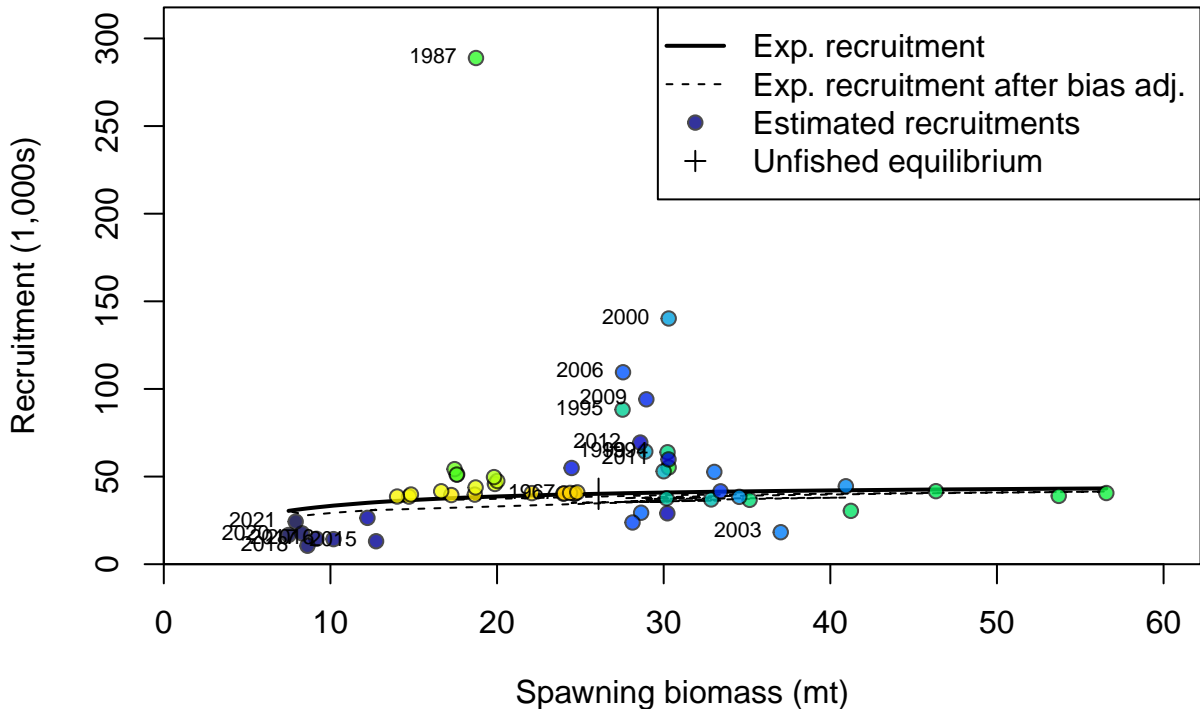
## Recruitment deviation variance

Asymptotic standard error estimate



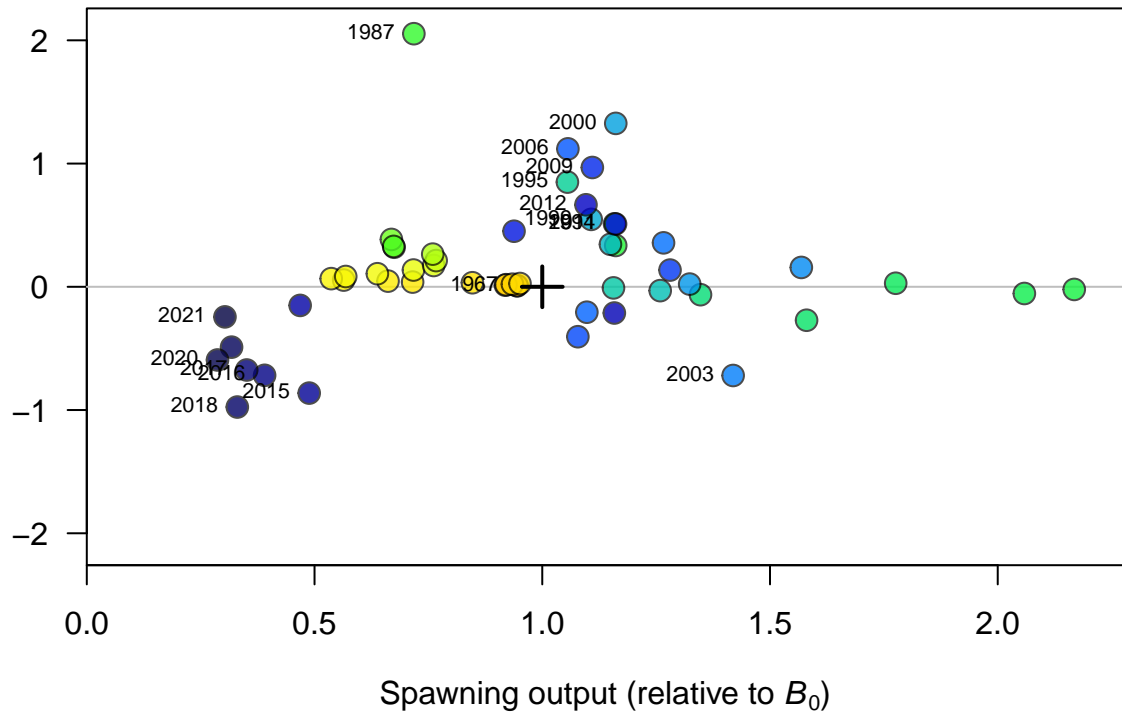


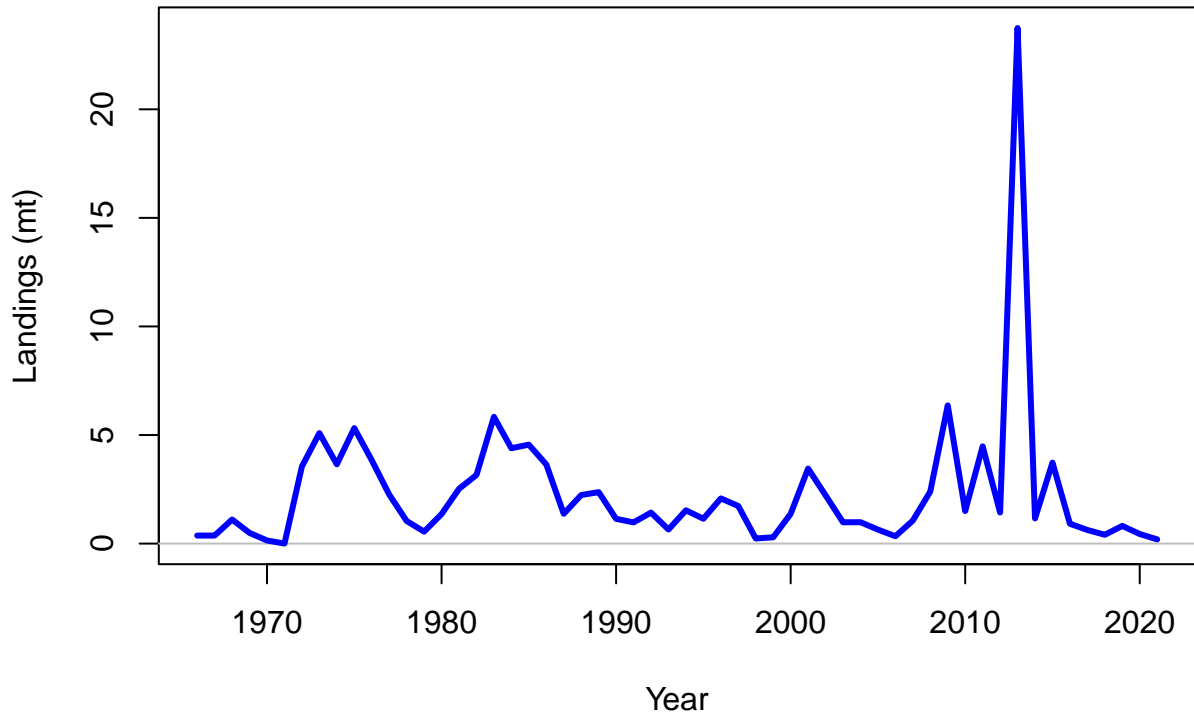


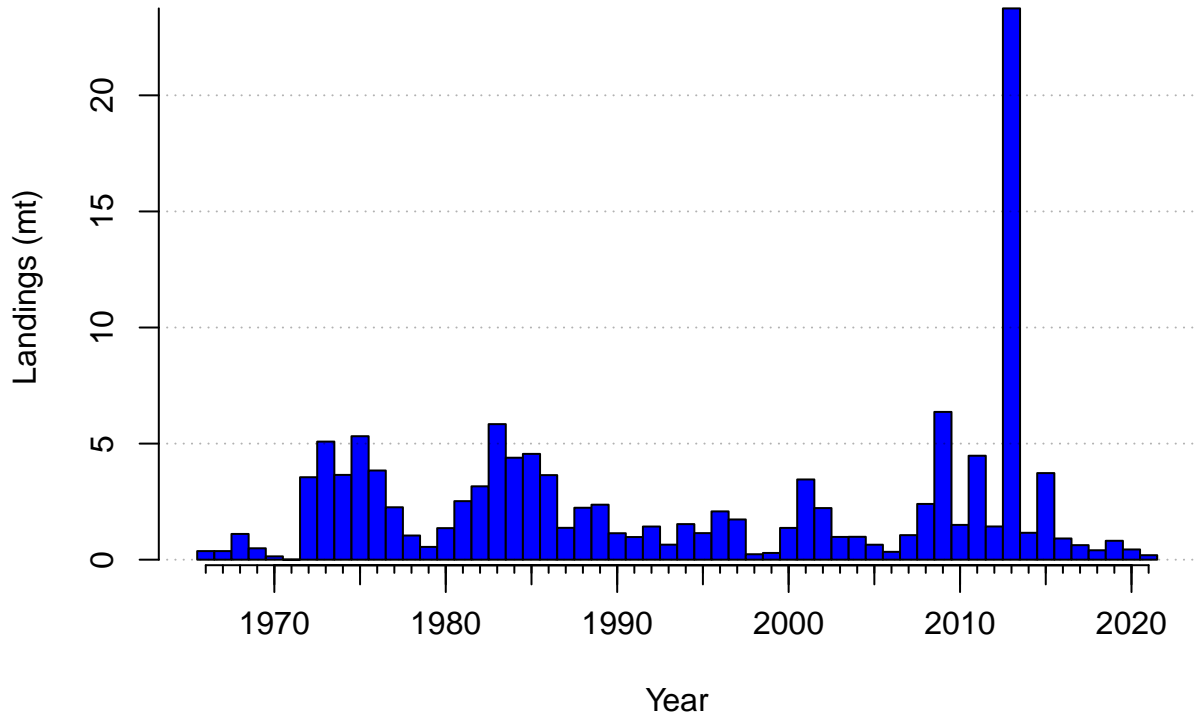




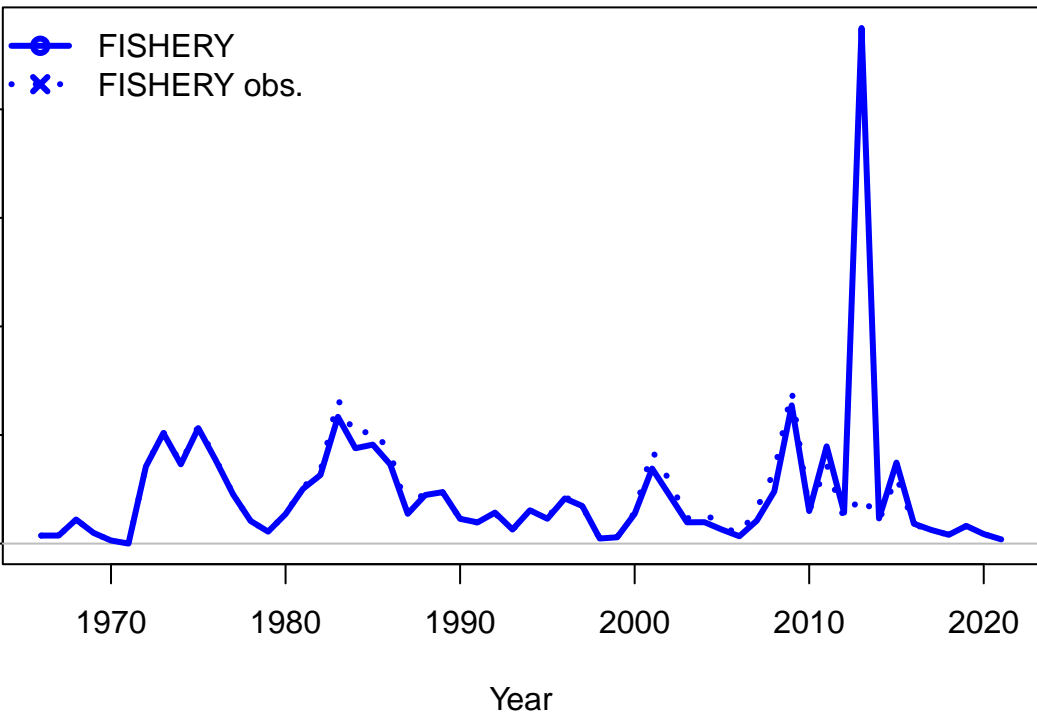
Log recruitment deviation

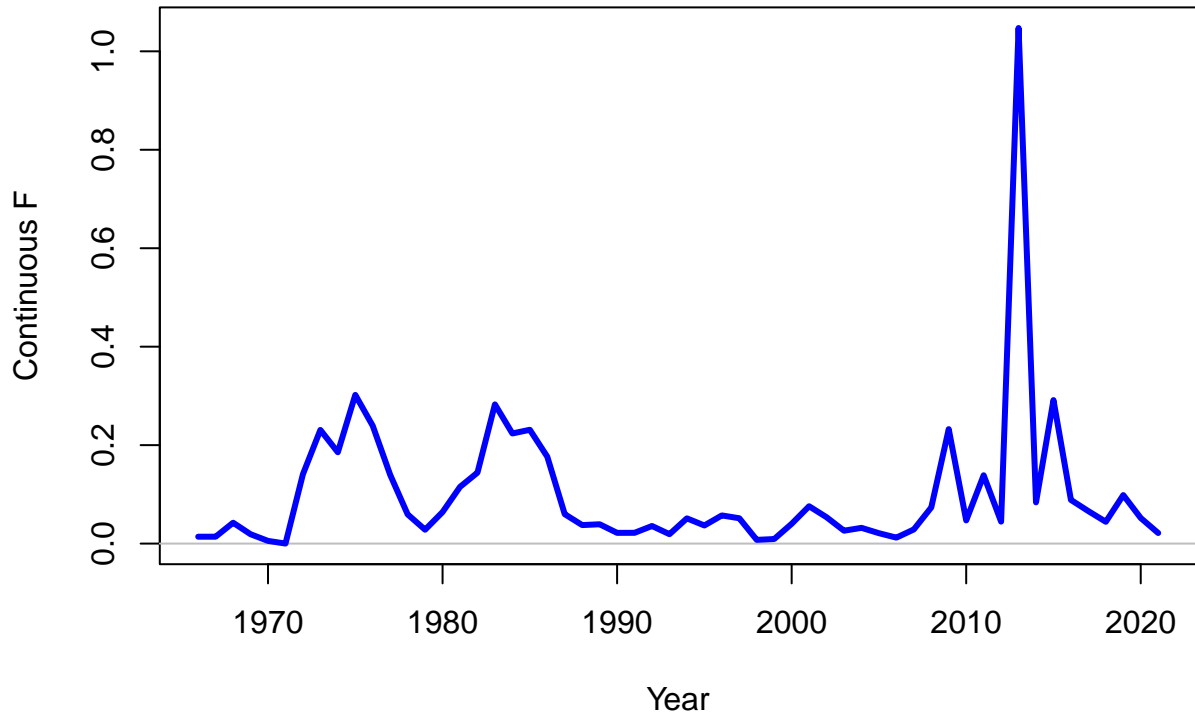




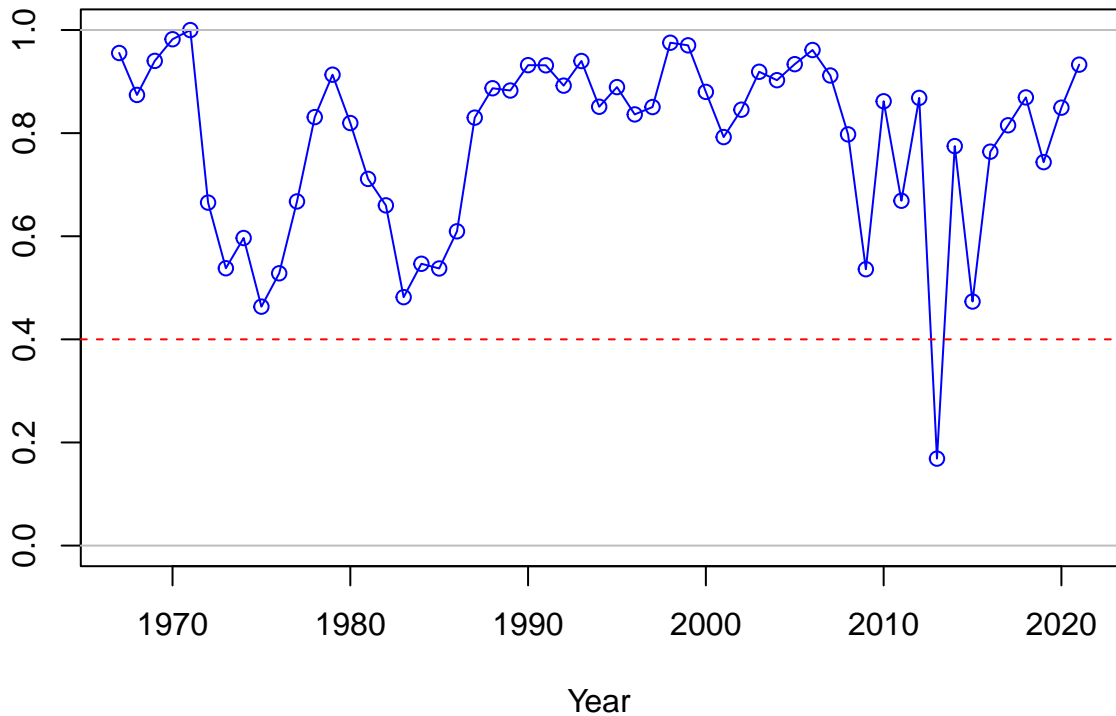


Observed and expected Landings (mt)

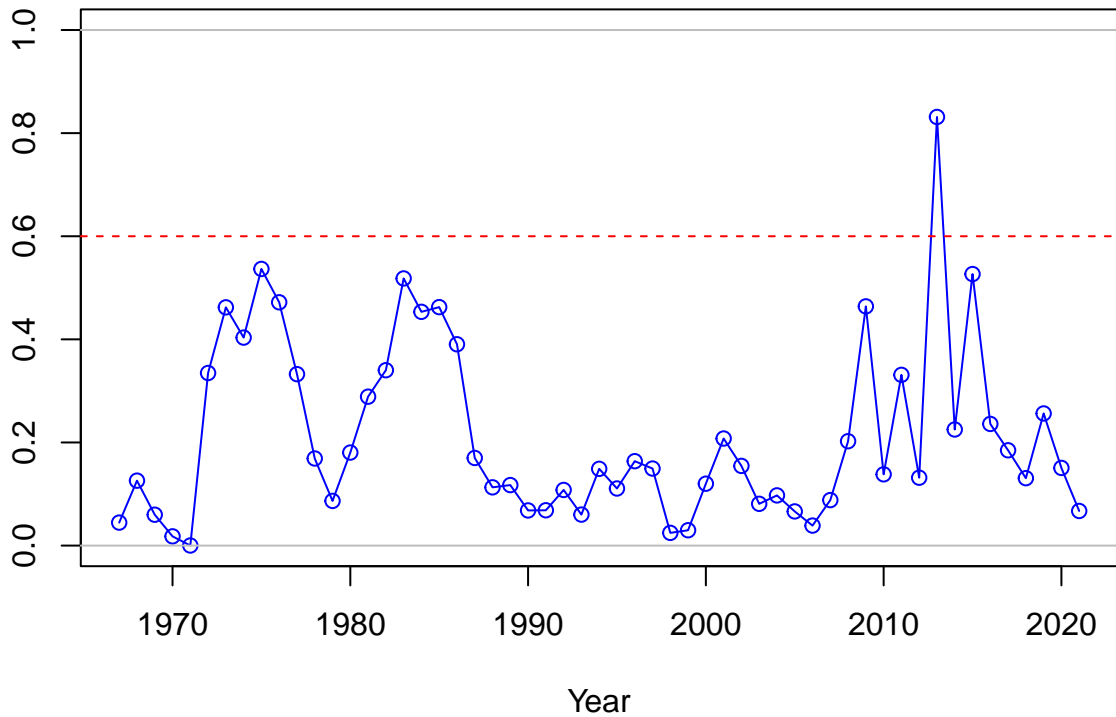




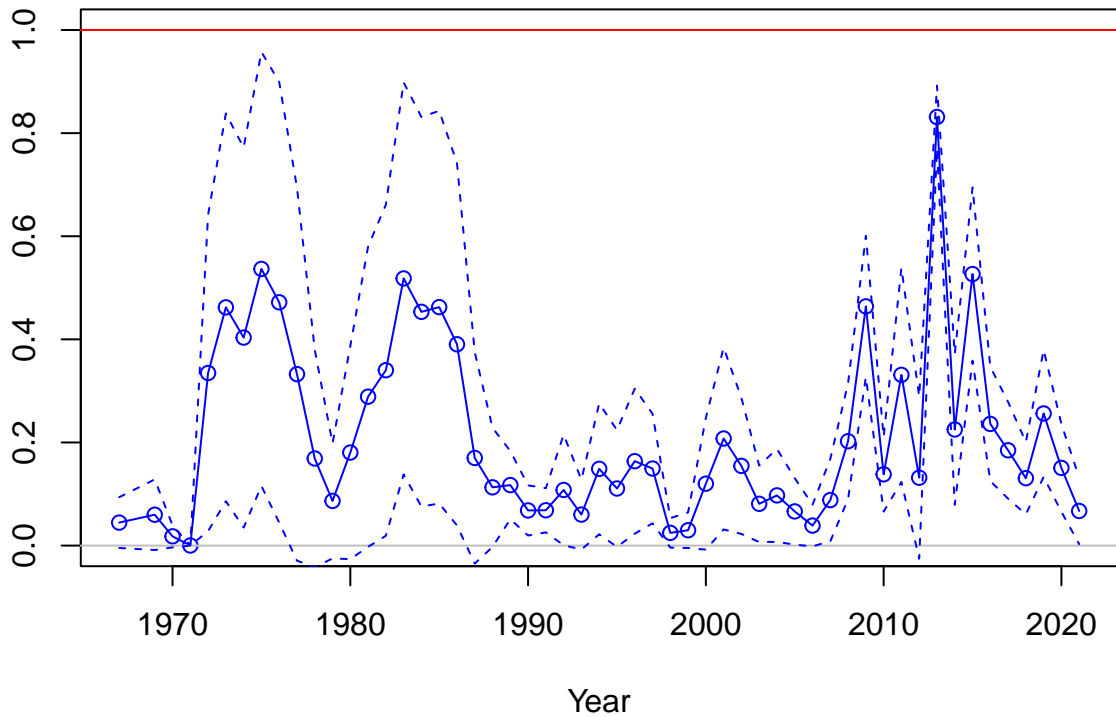
SPR



1-SPR

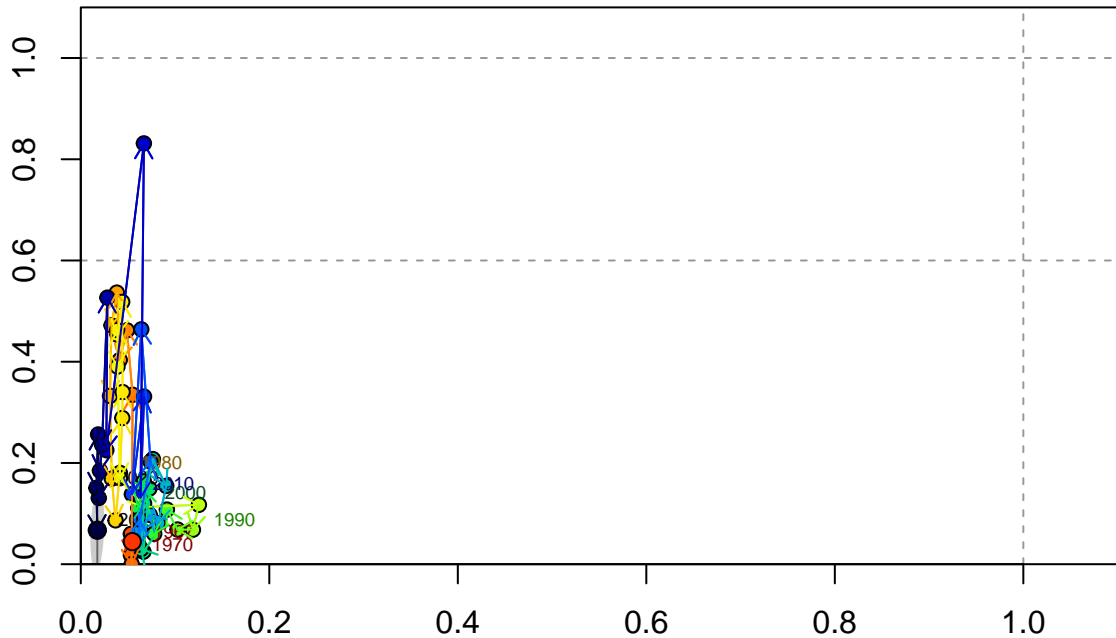


Fishing intensity: 1-SPR



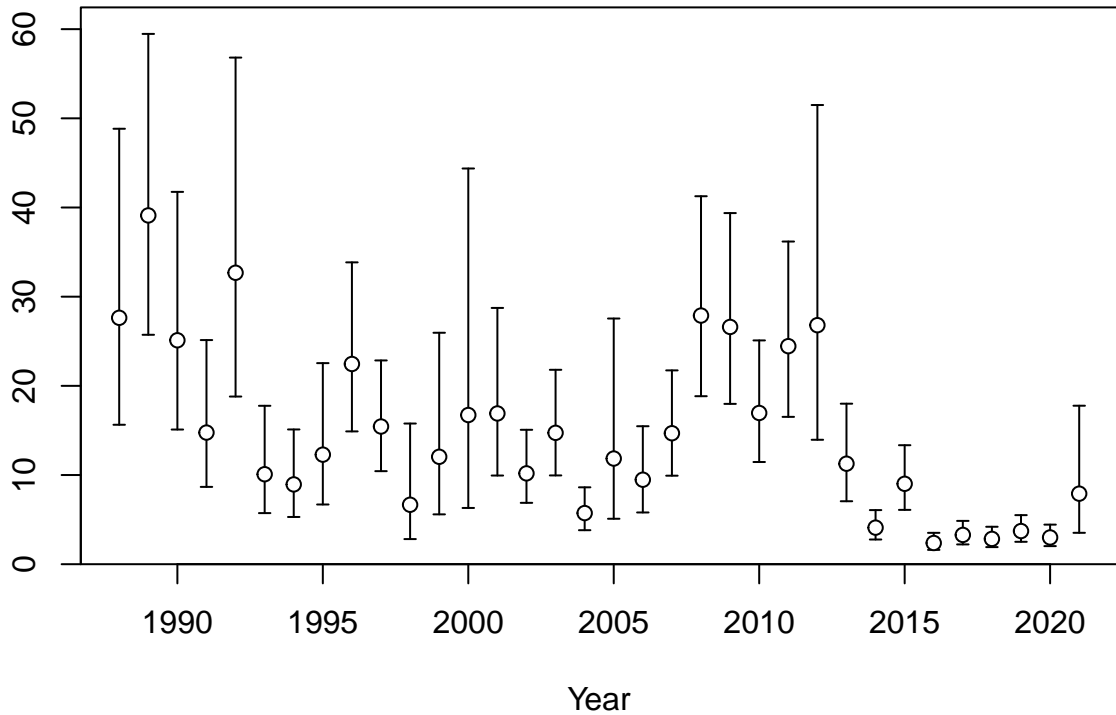


Fishing intensity: 1-SPR

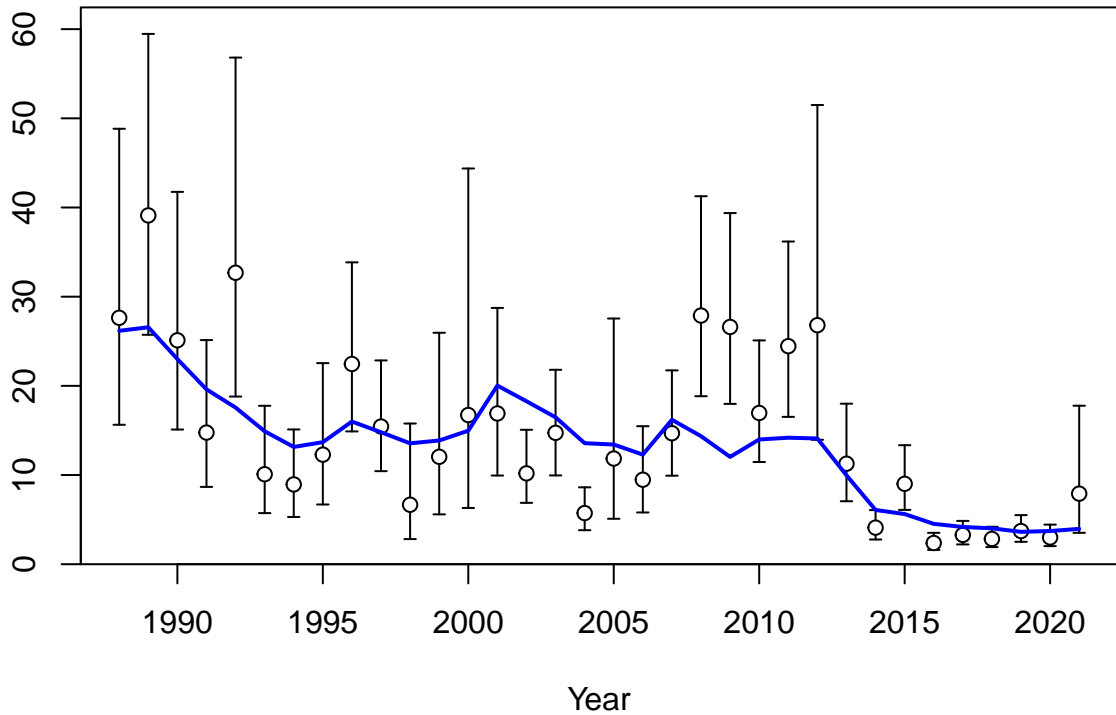


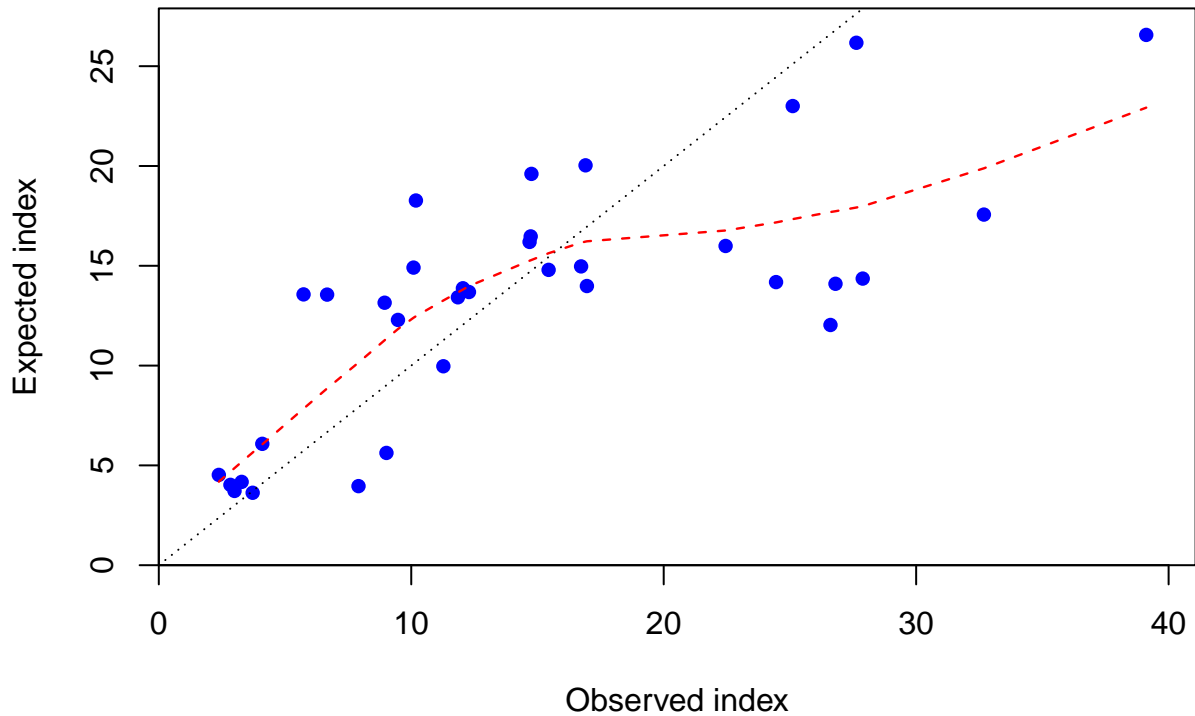
Relative spawning output:  $B/B_{MSY}$

Index



Index





Log index

4  
3  
2  
1

1990

1995

2000

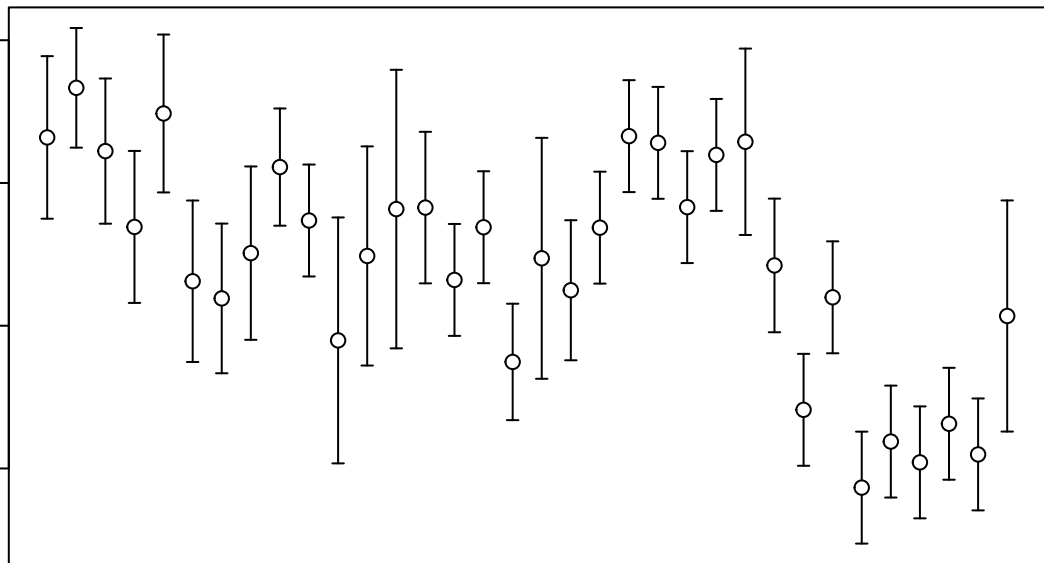
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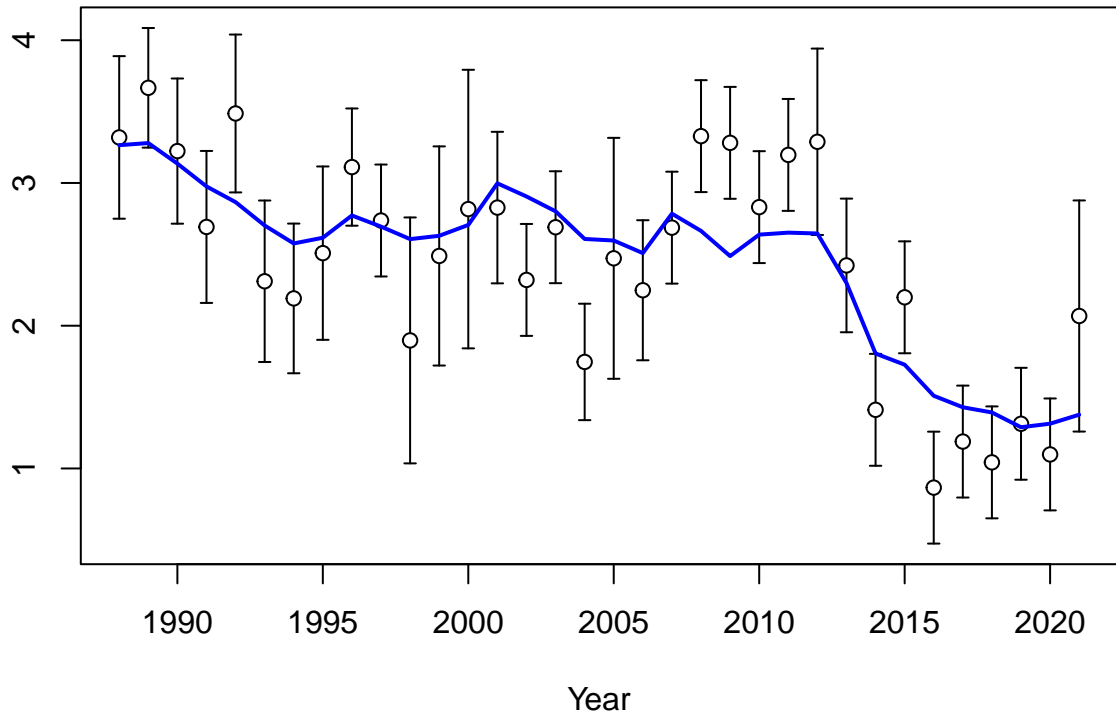
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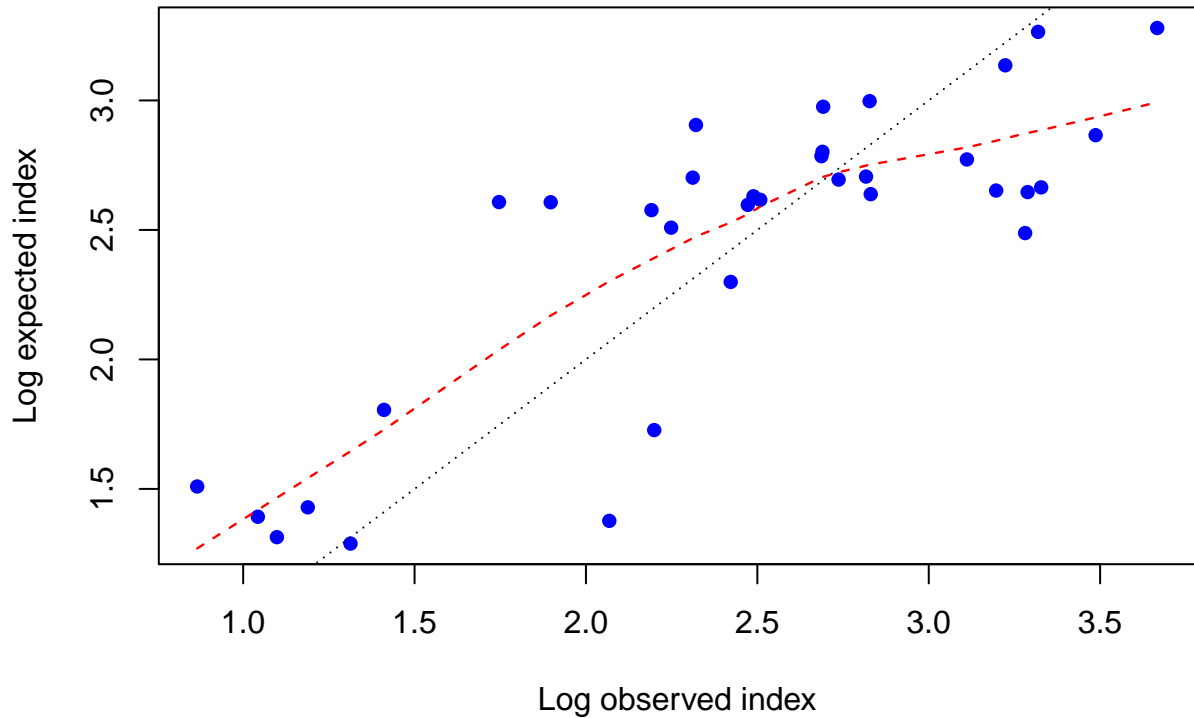
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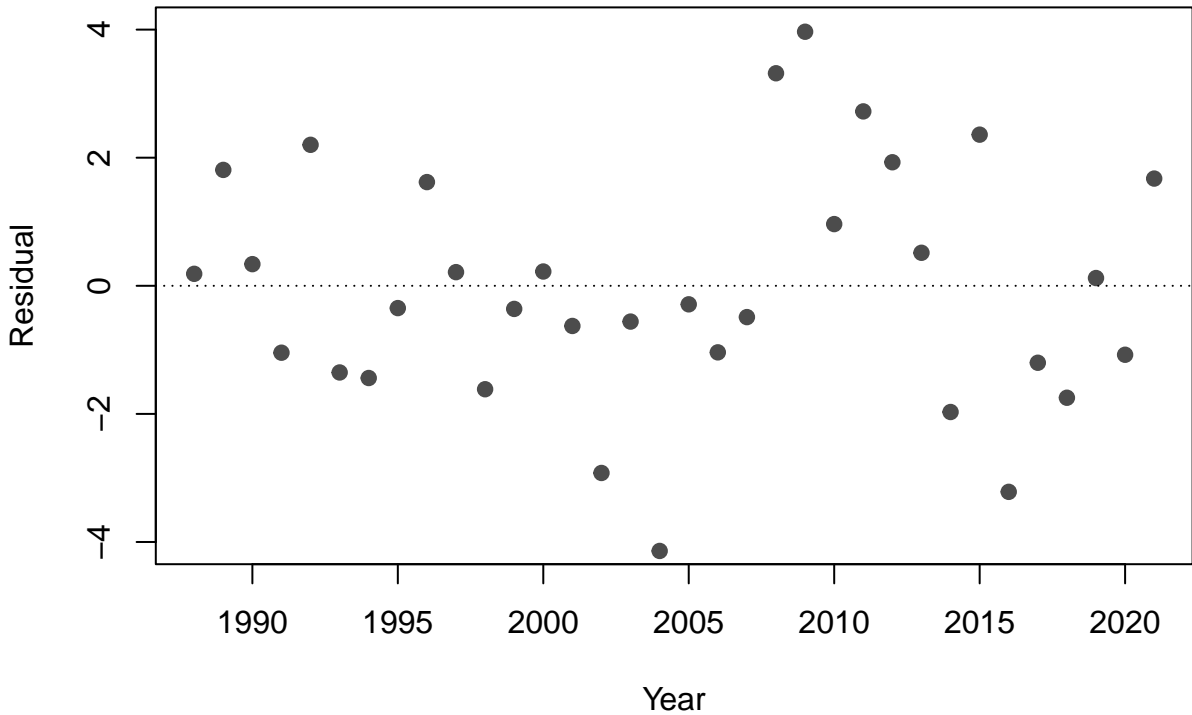
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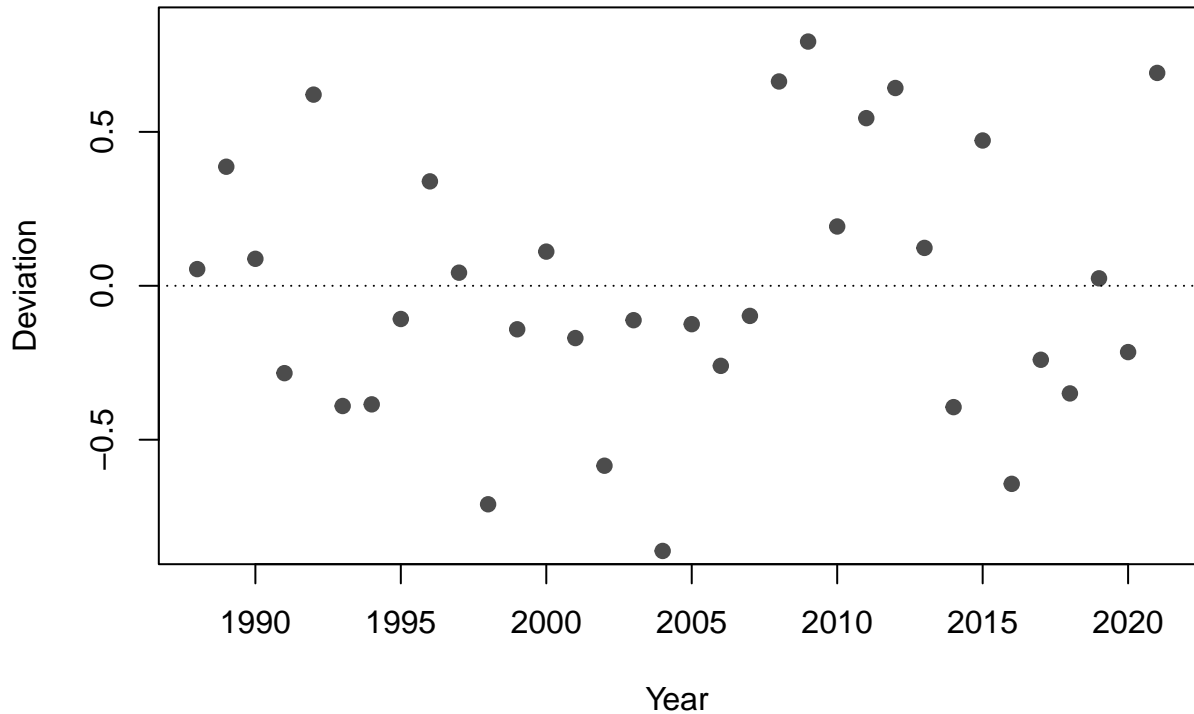
Log index

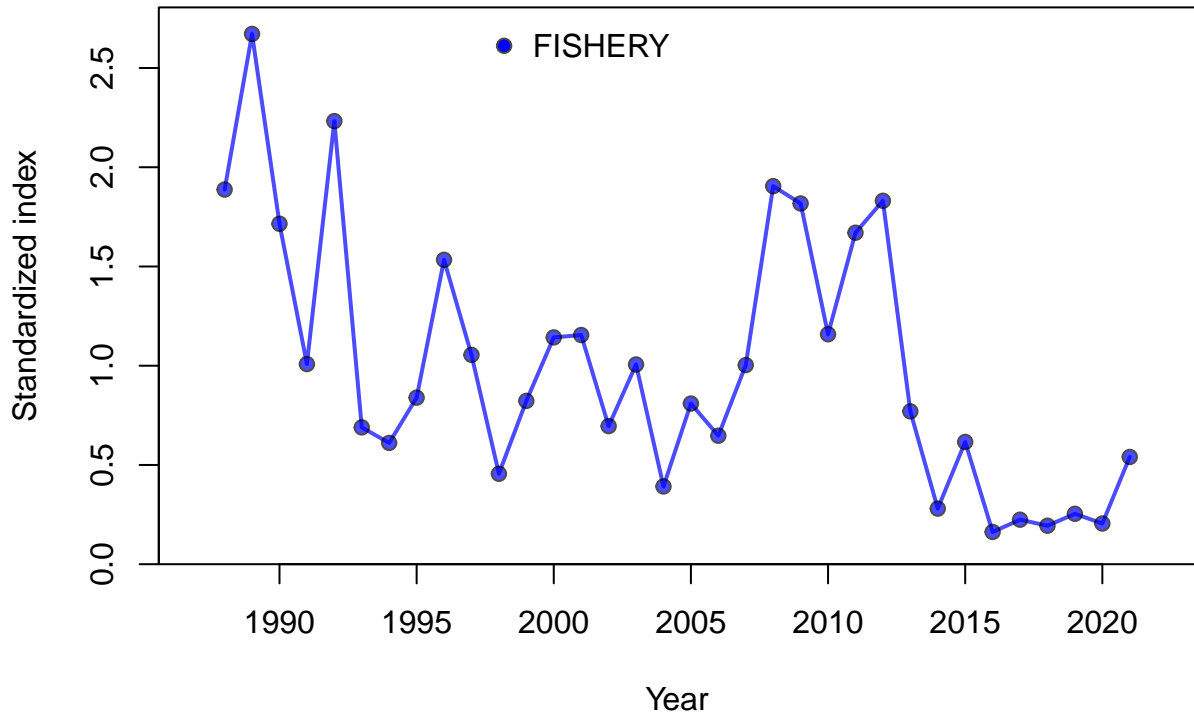


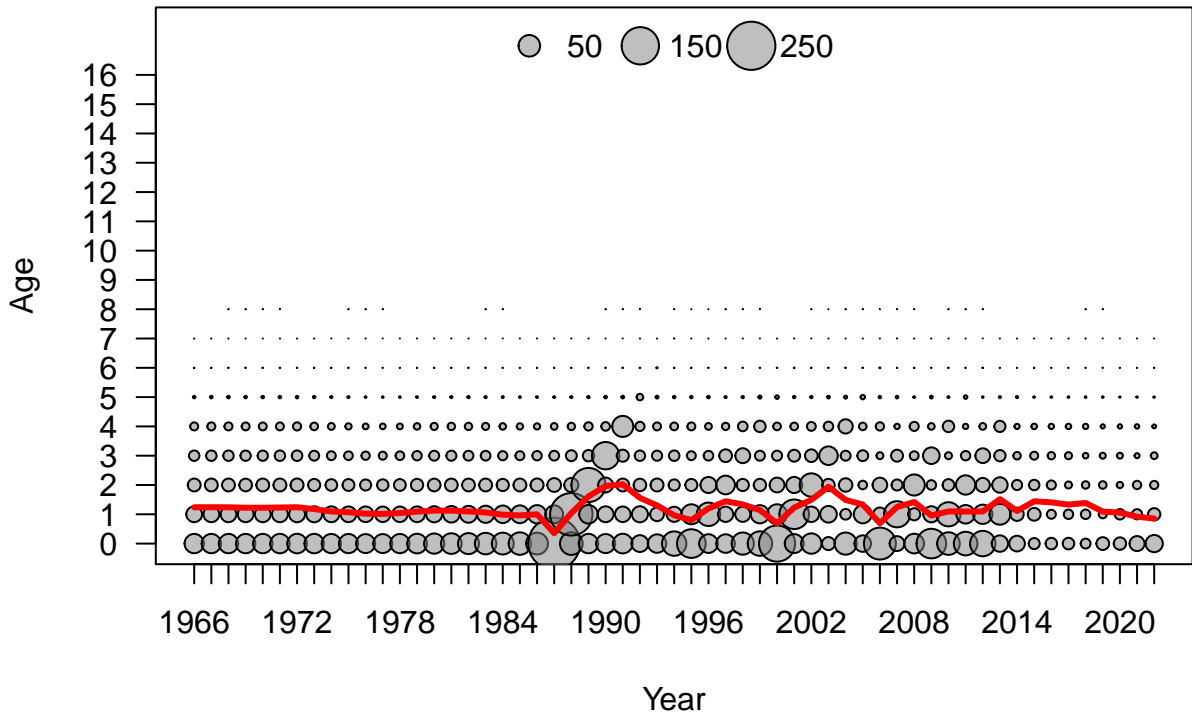


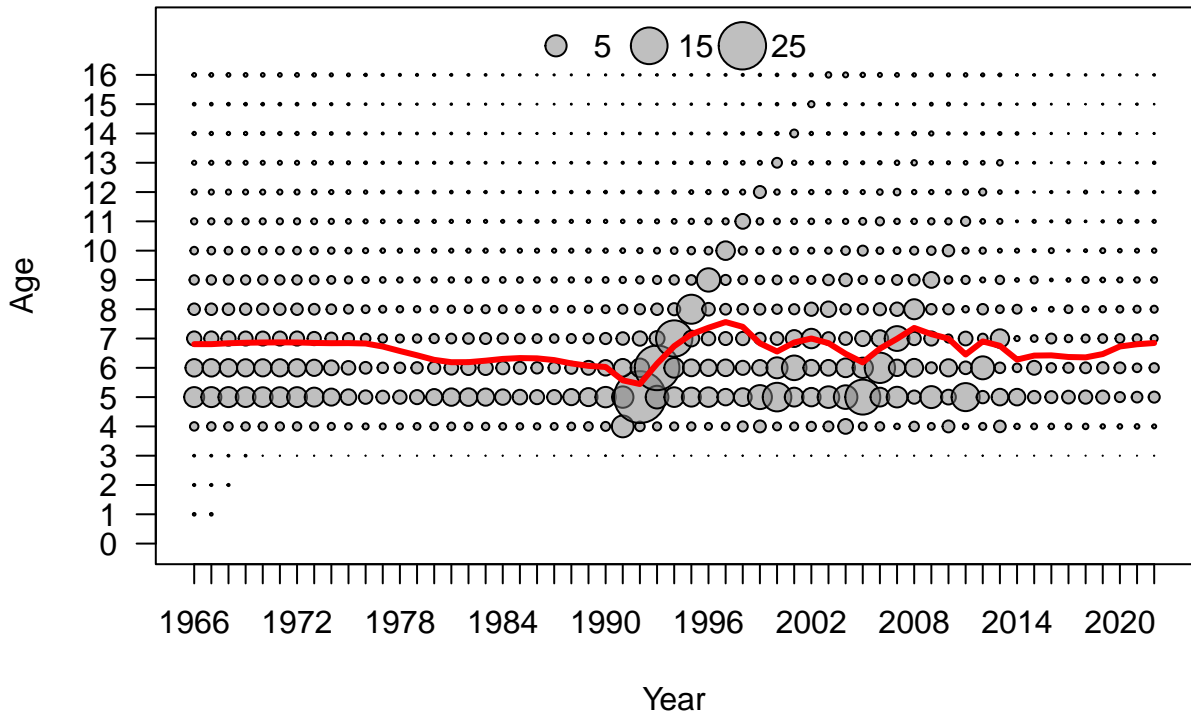


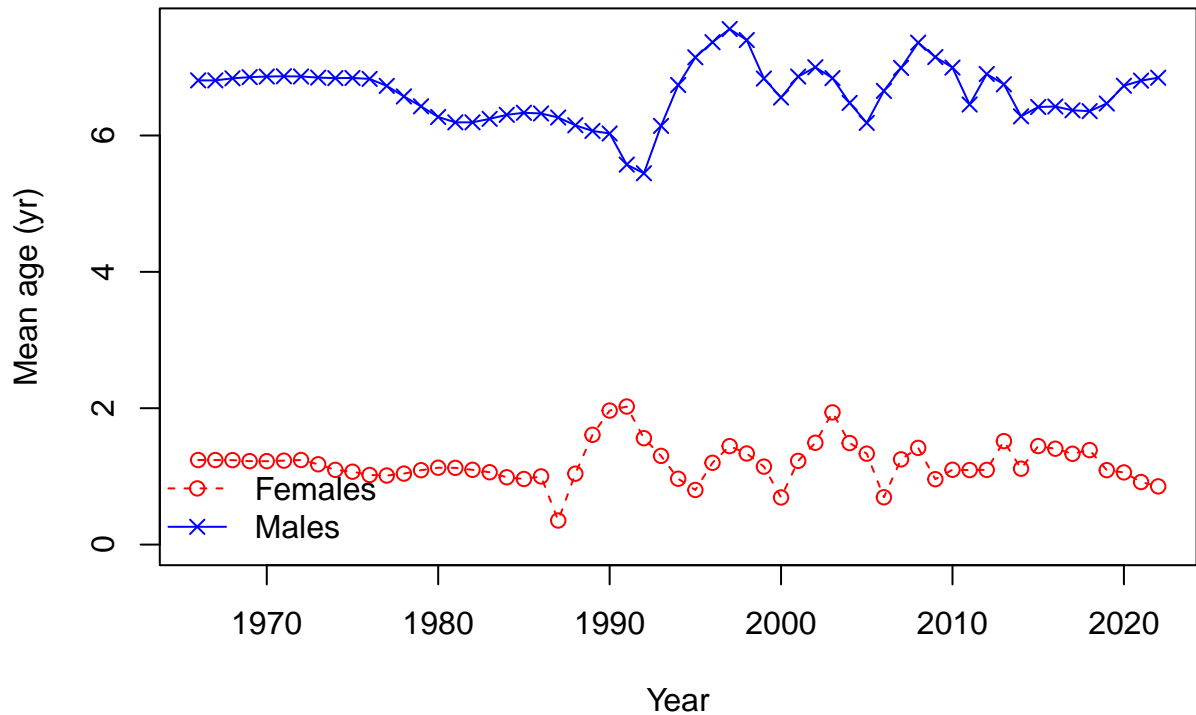




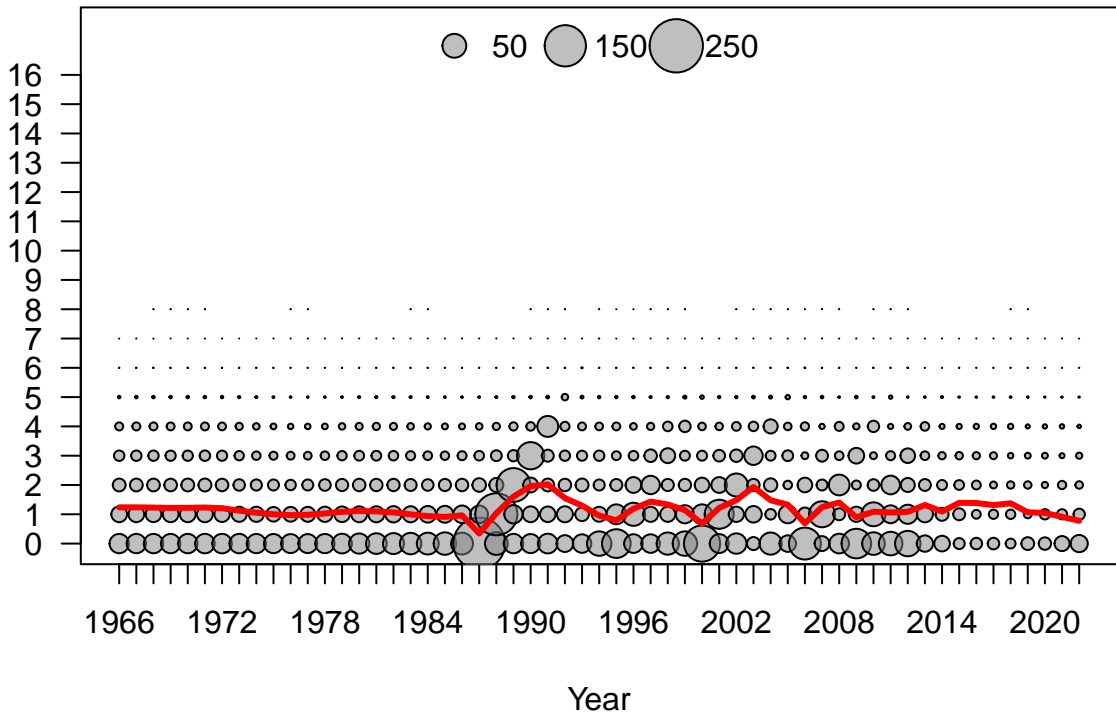


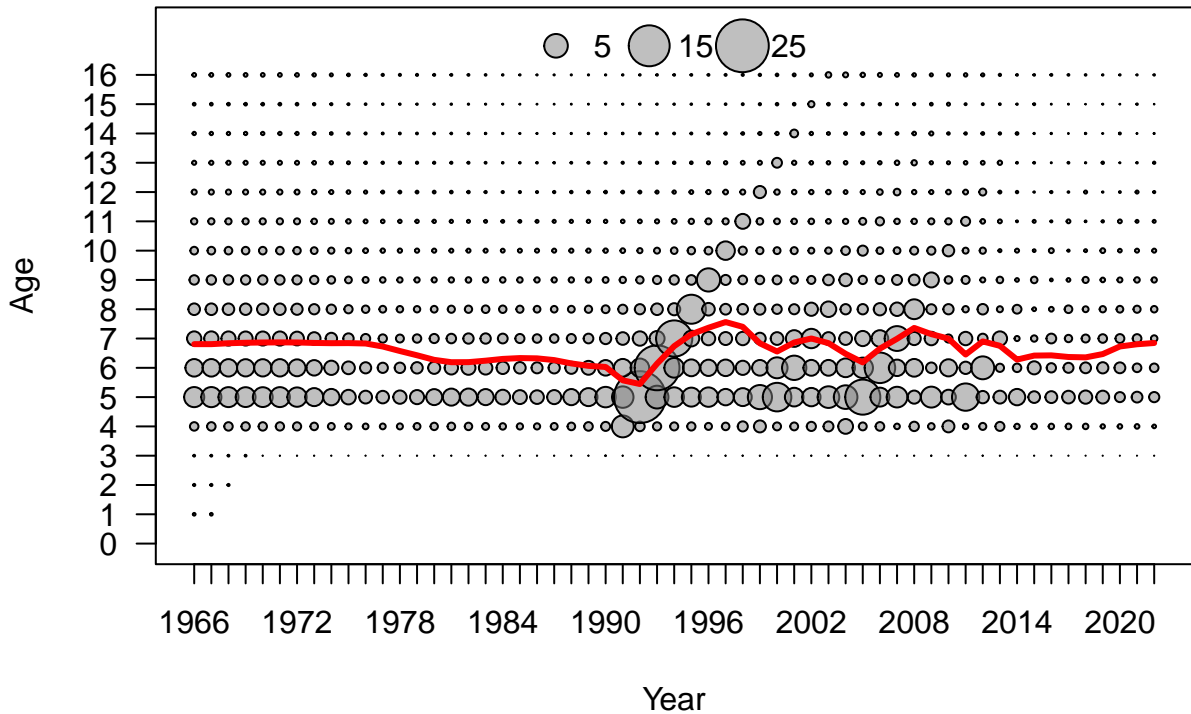


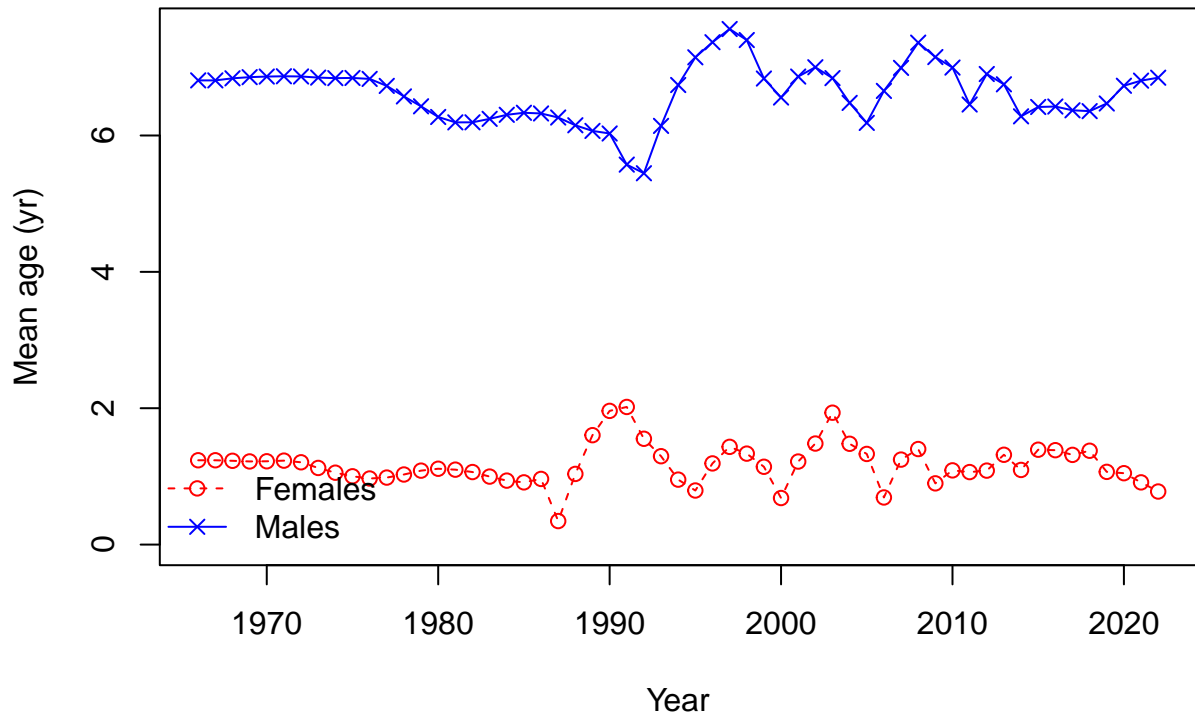




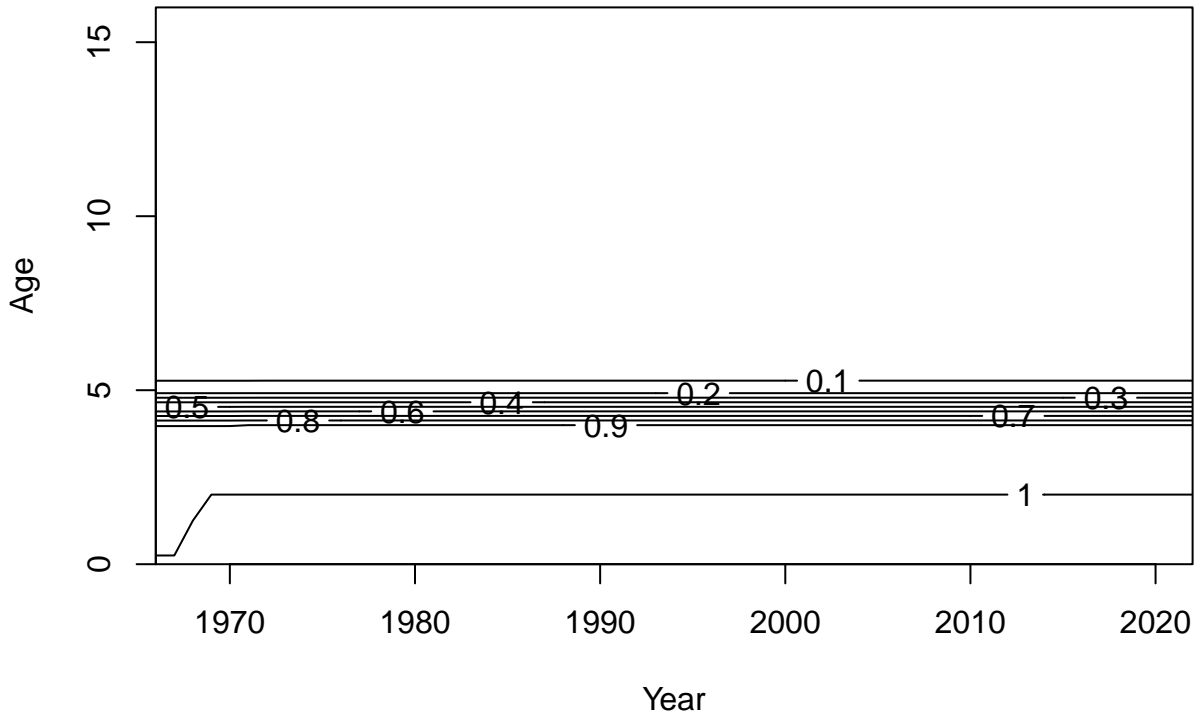
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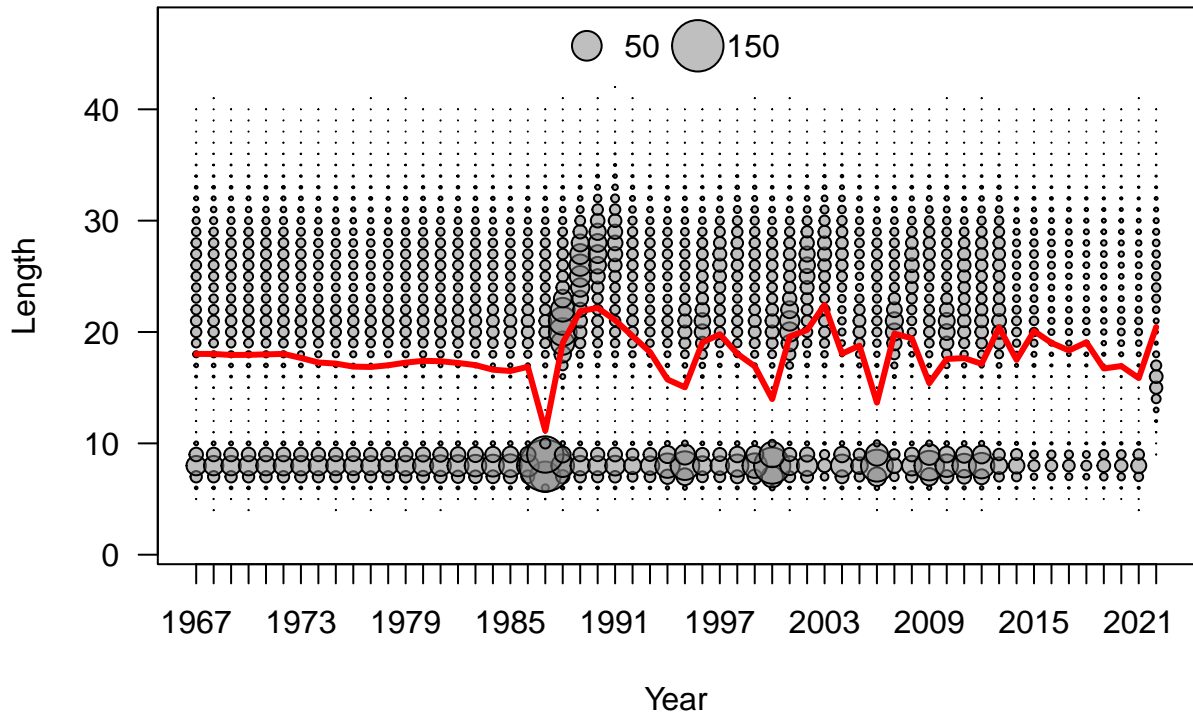


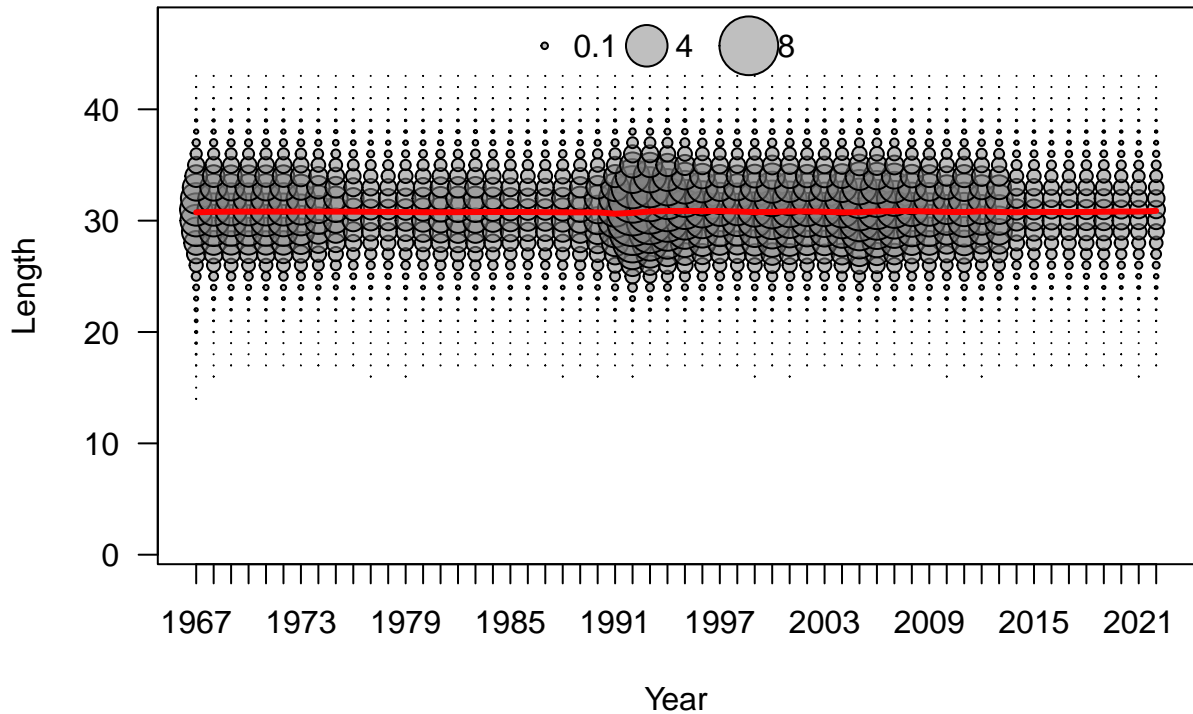


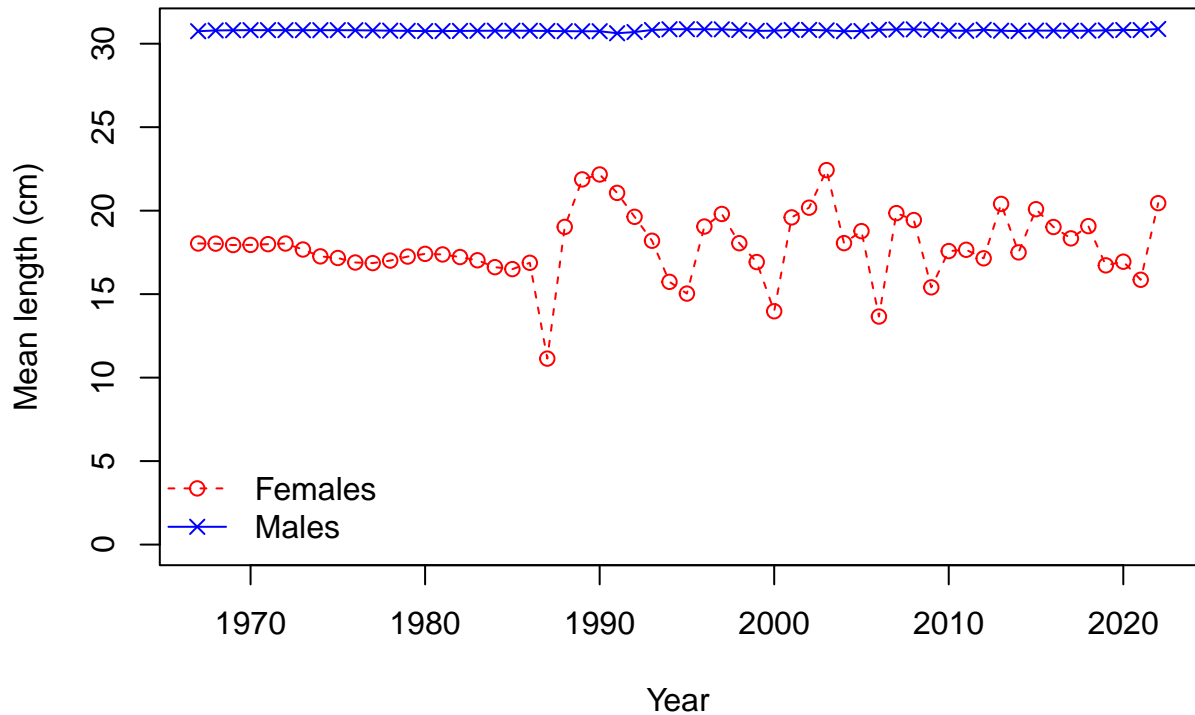


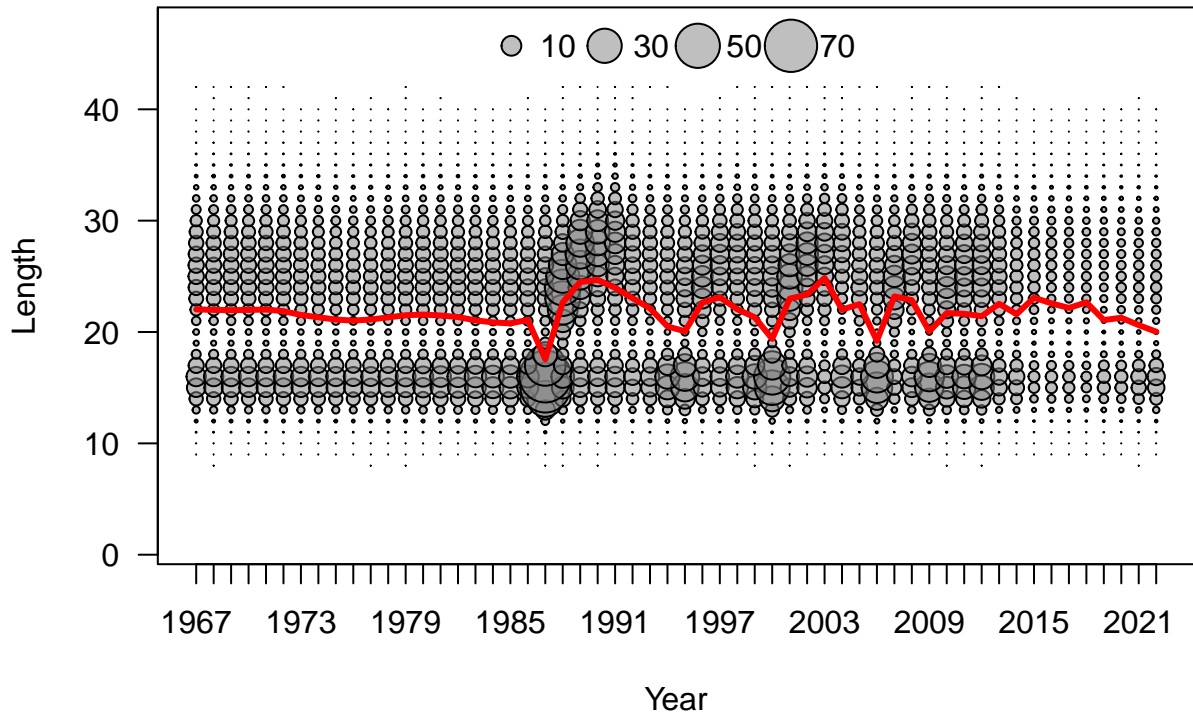


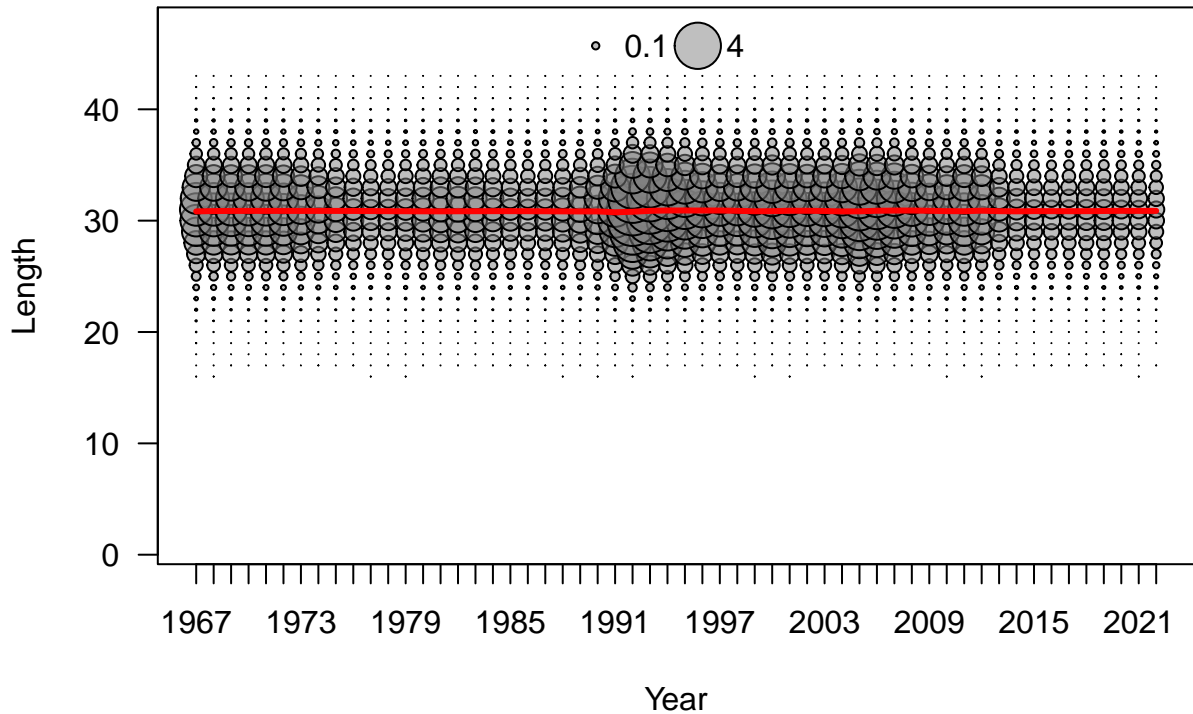


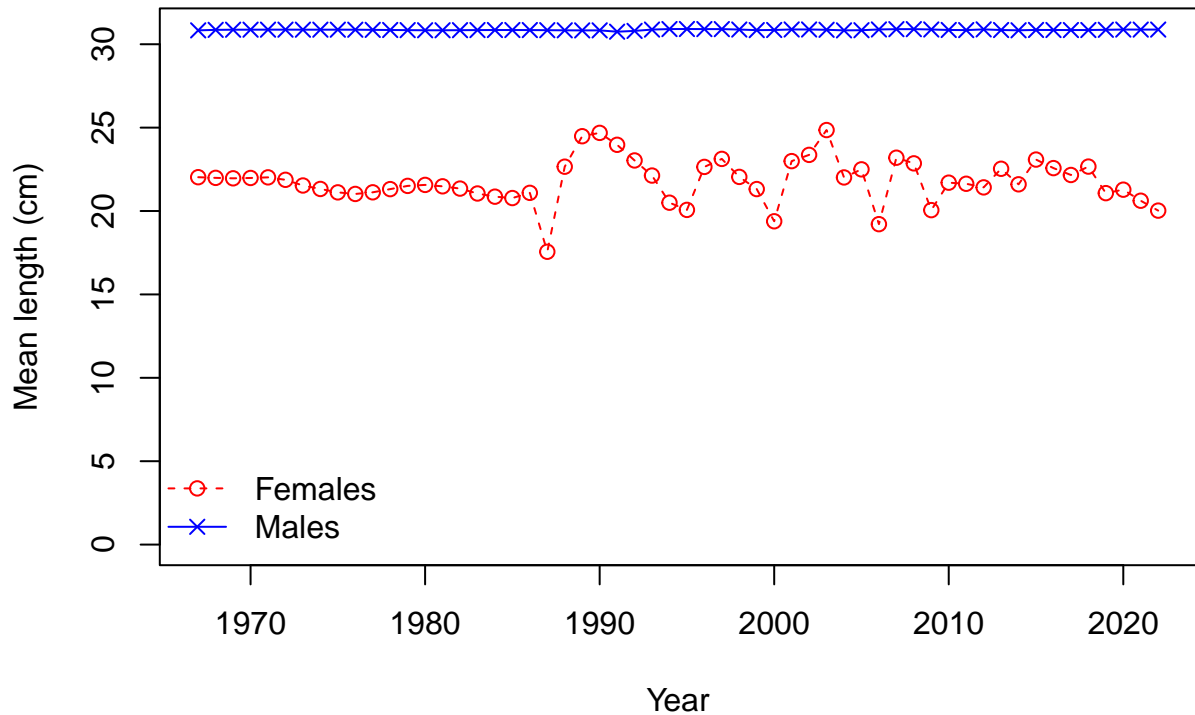




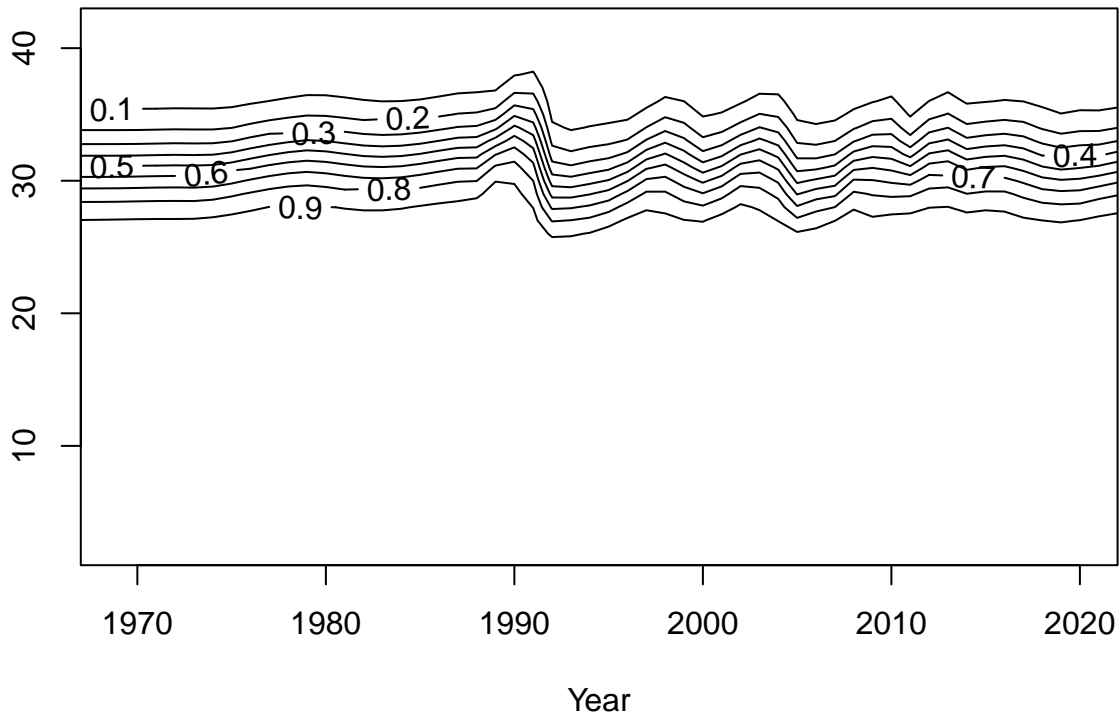




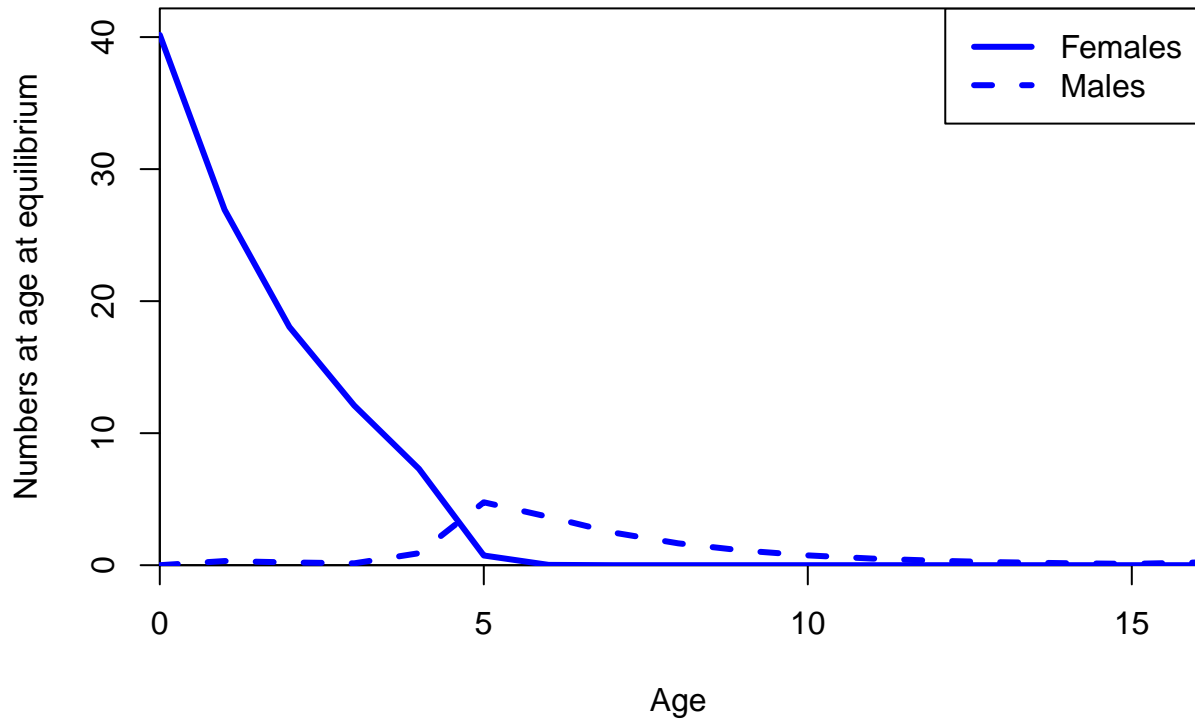


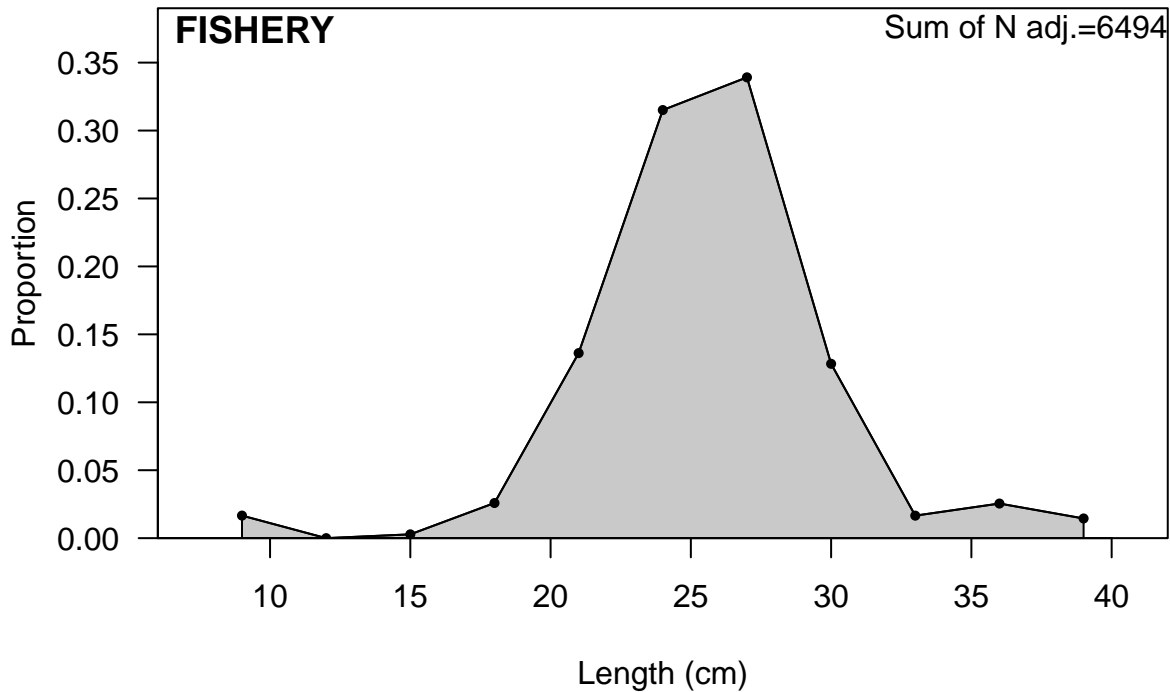


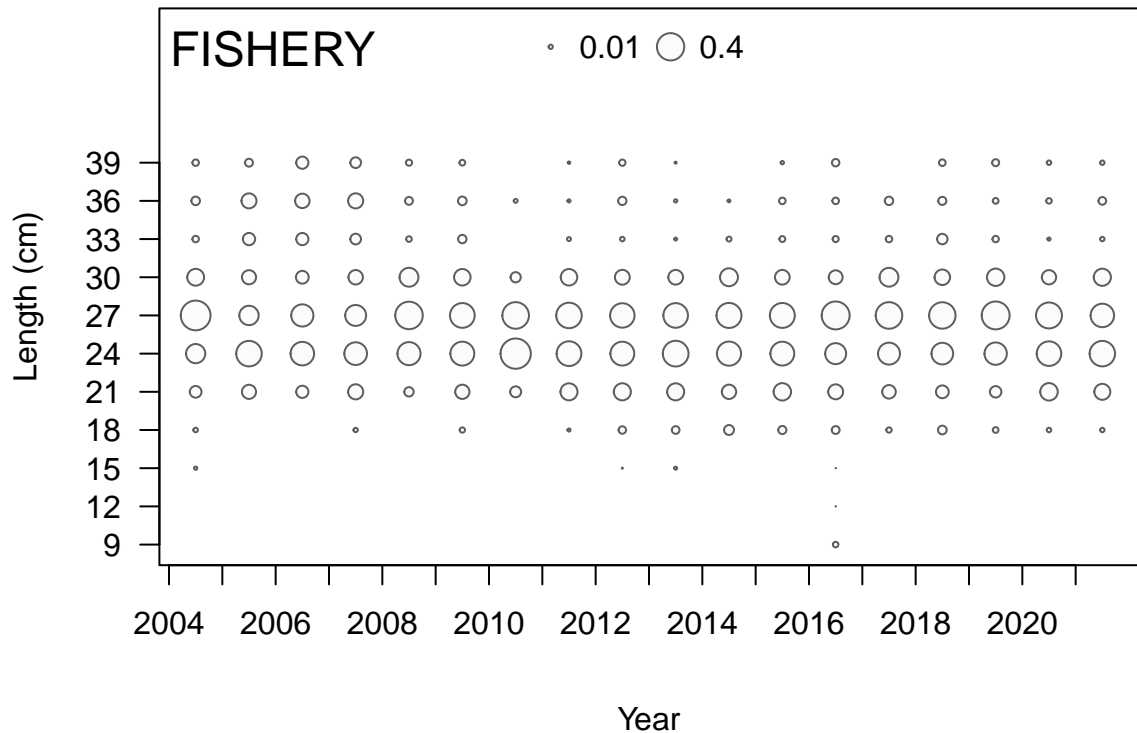
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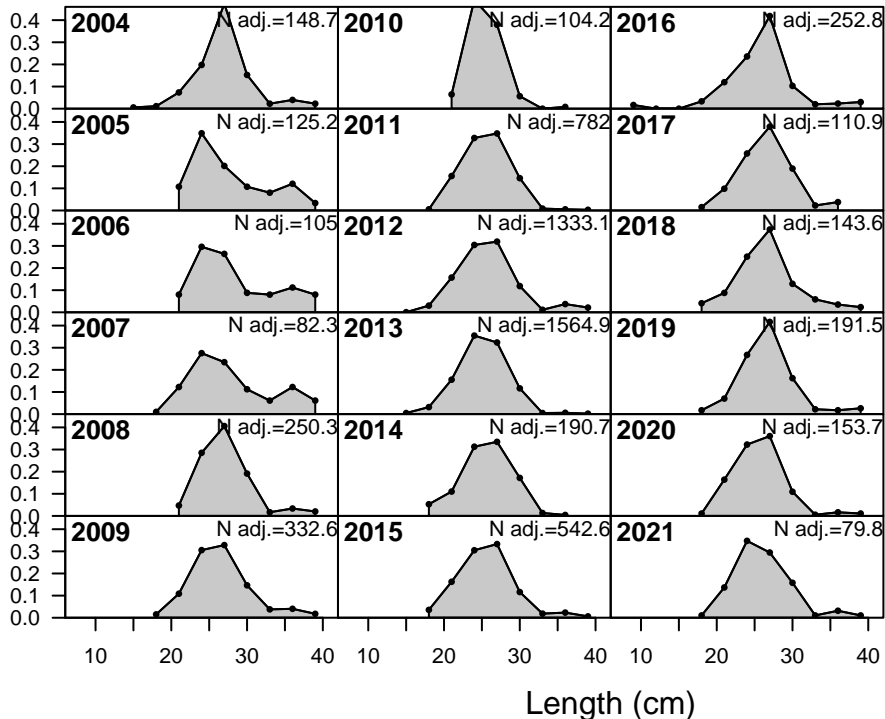


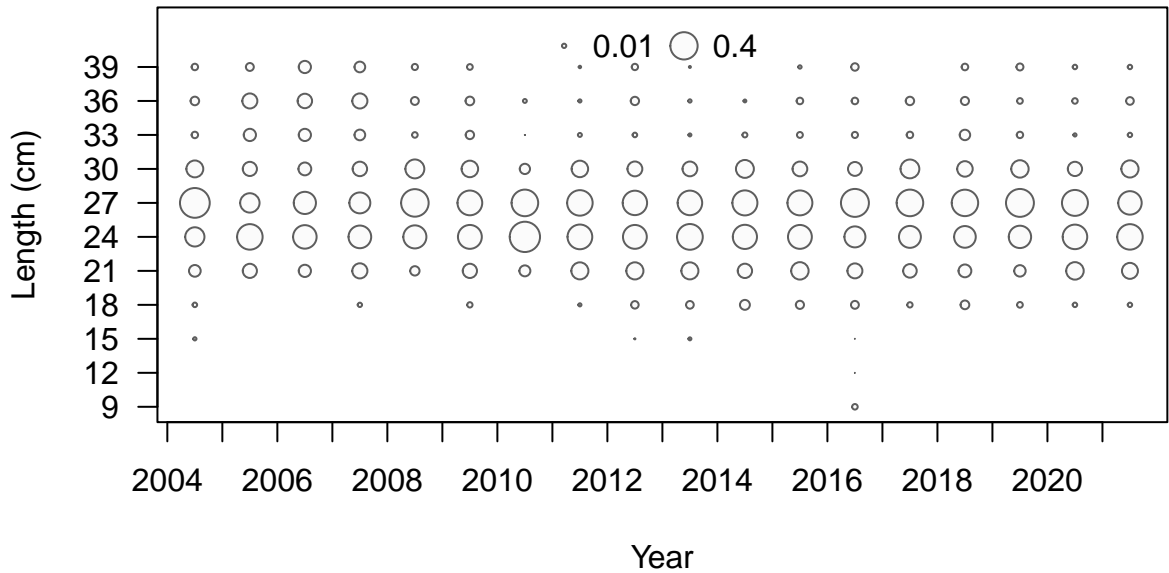




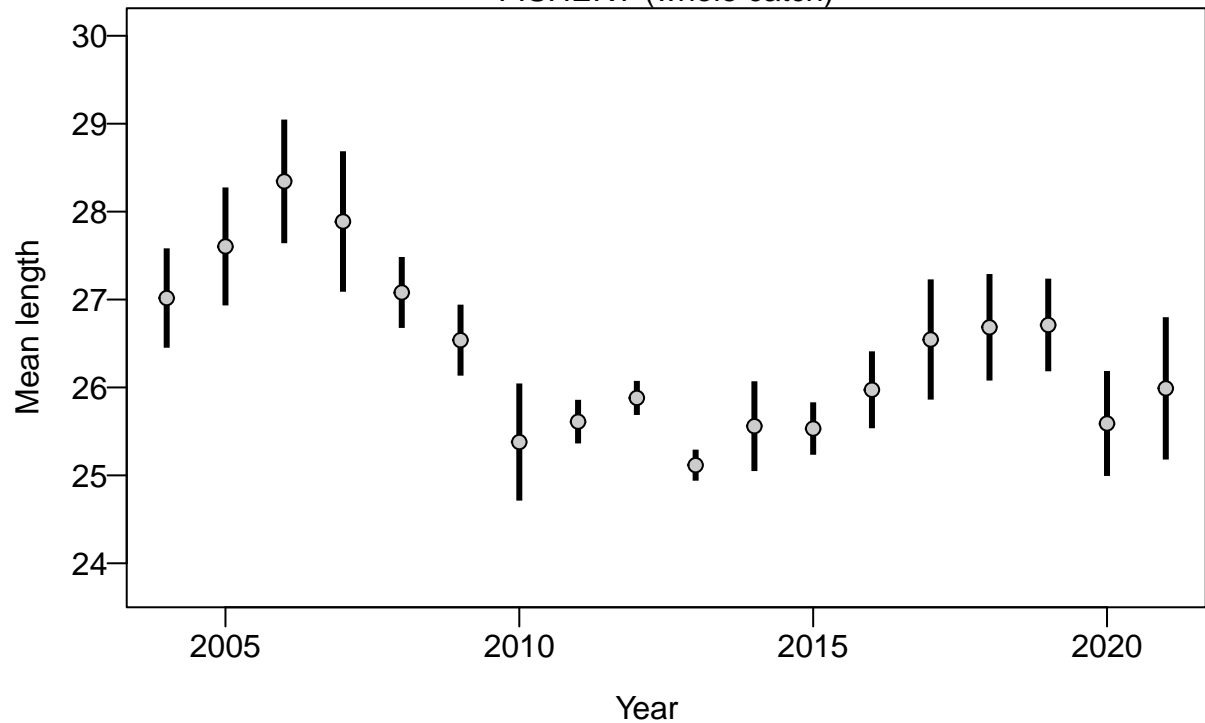


Proportion



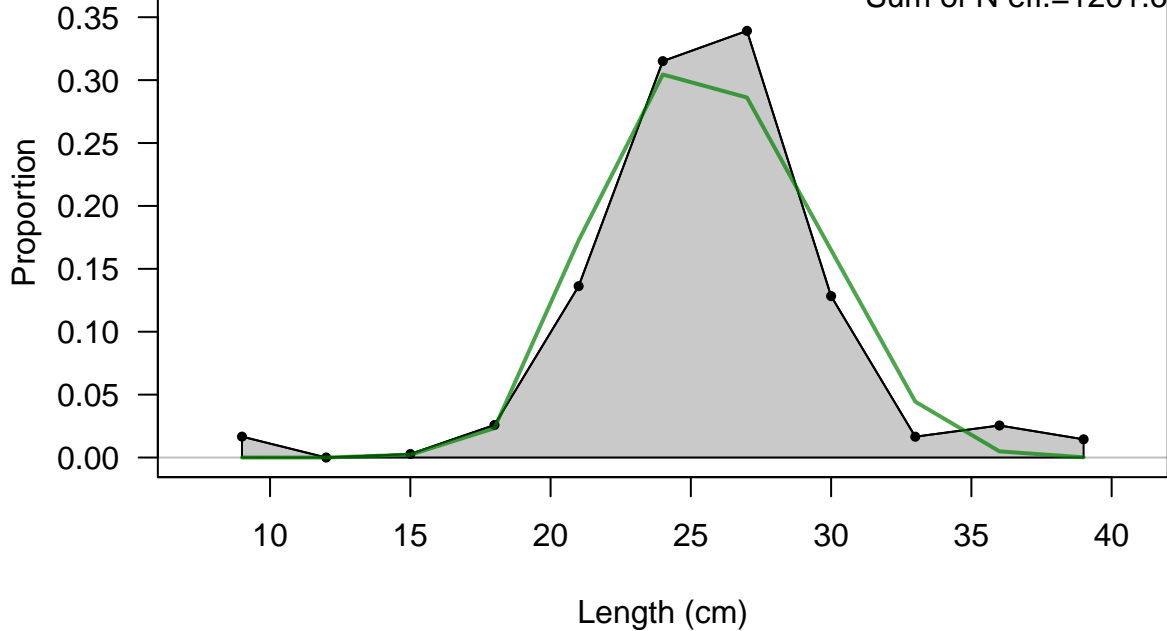


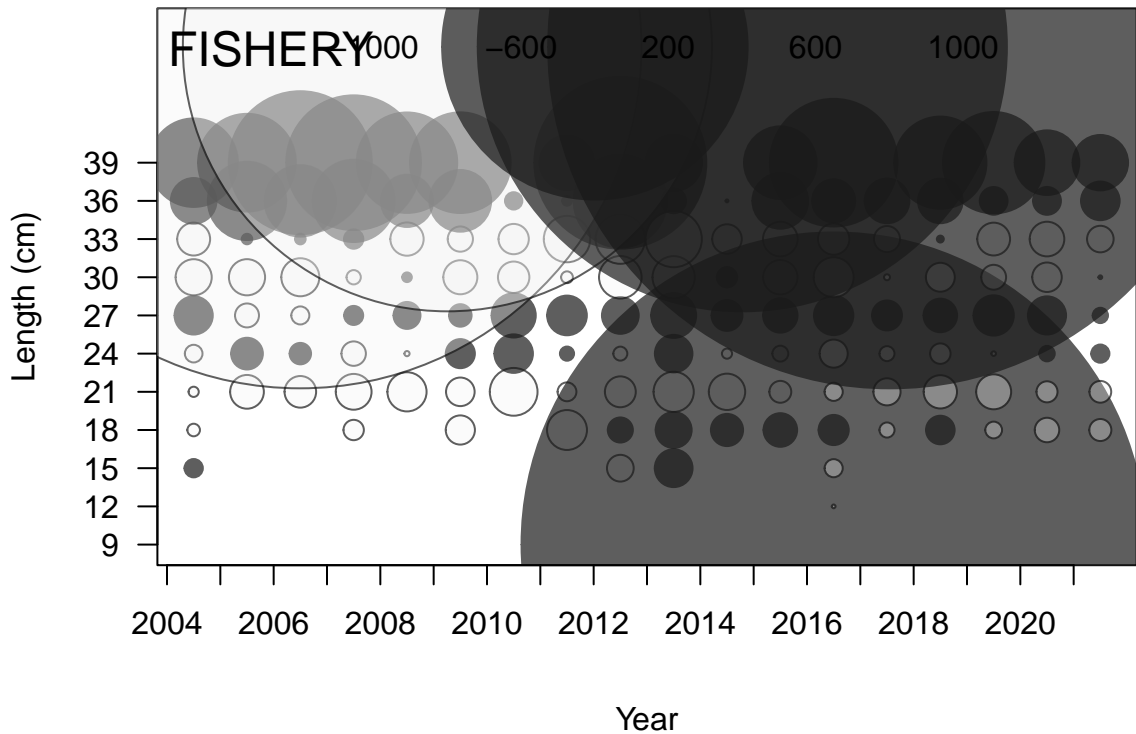
FISHERY (whole catch)



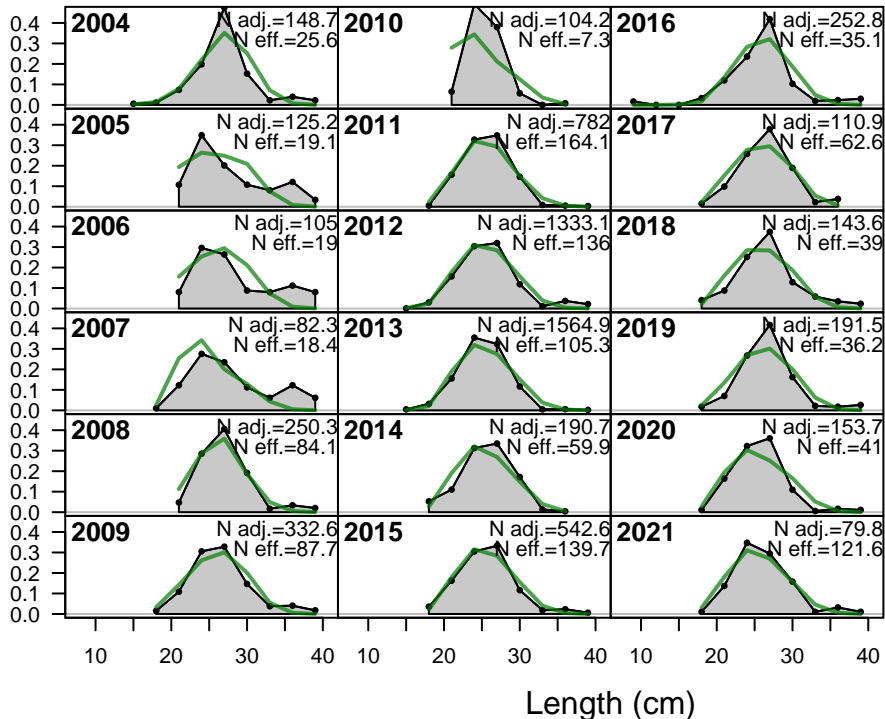
# FISHERY

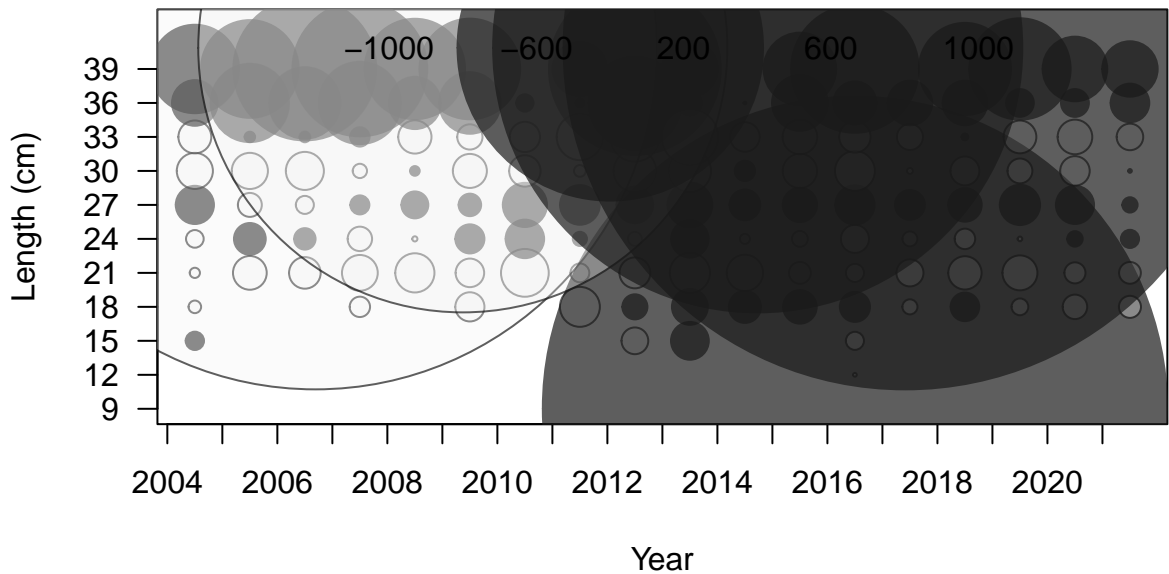
Sum of N adj.=6494  
Sum of N eff.=1201.6



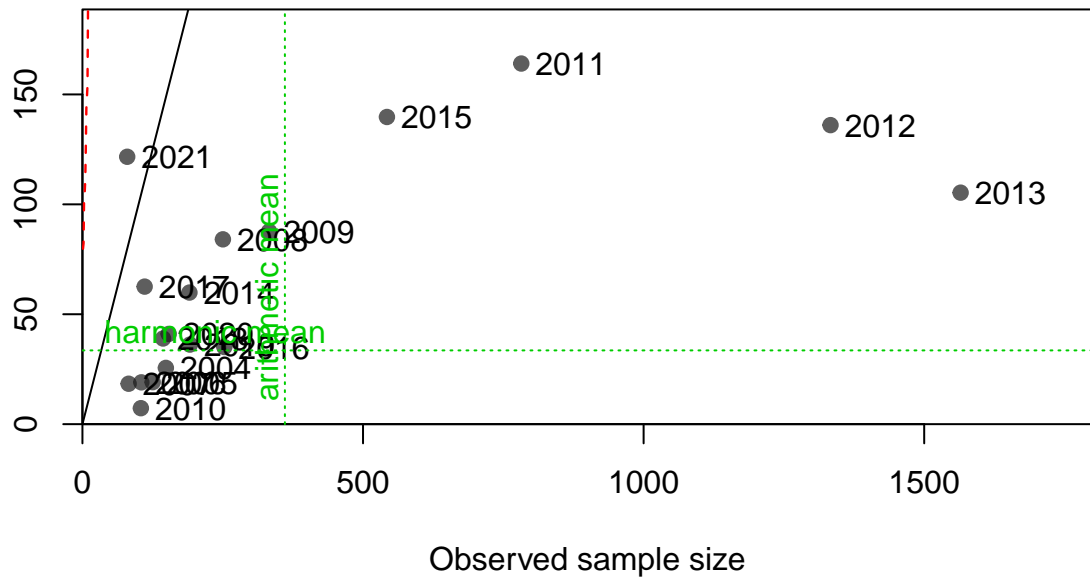




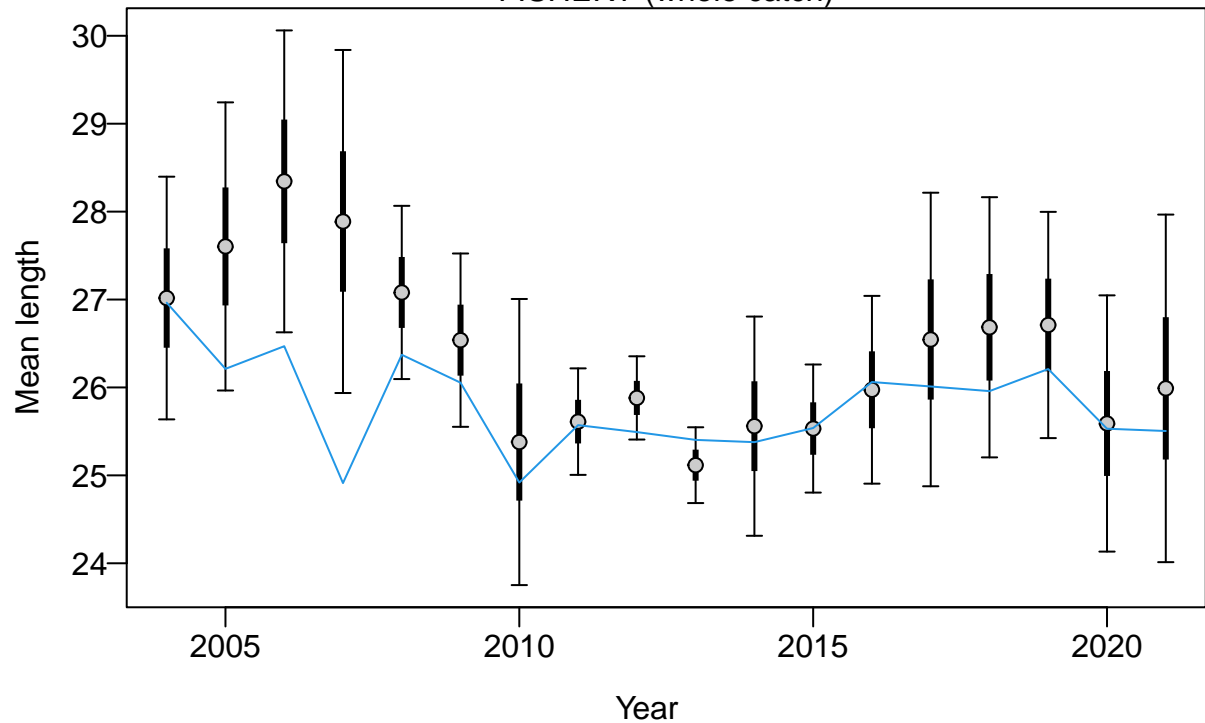


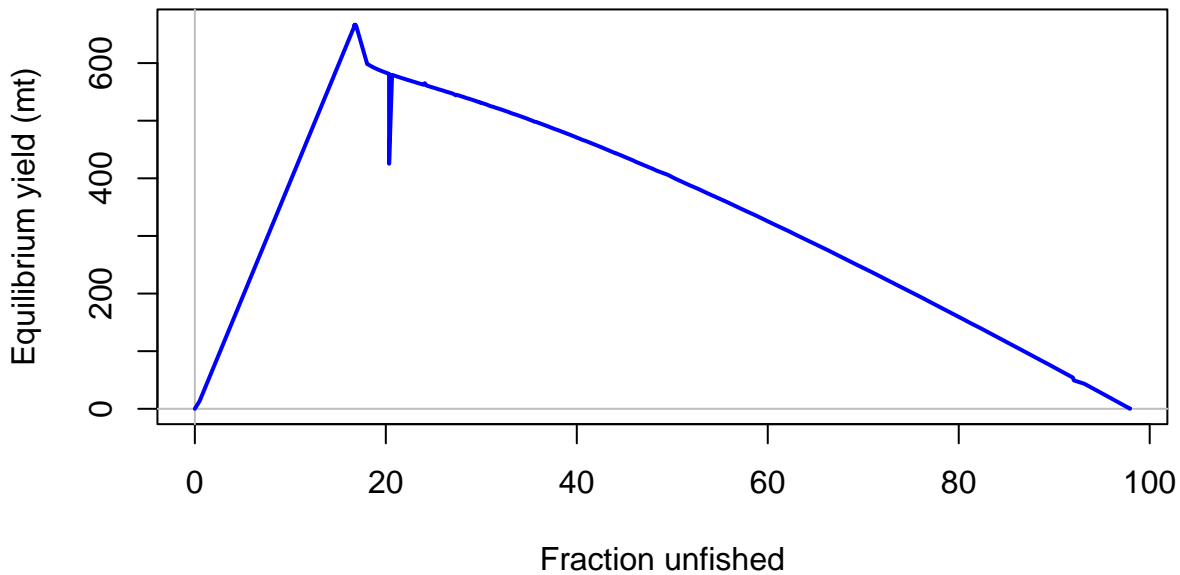


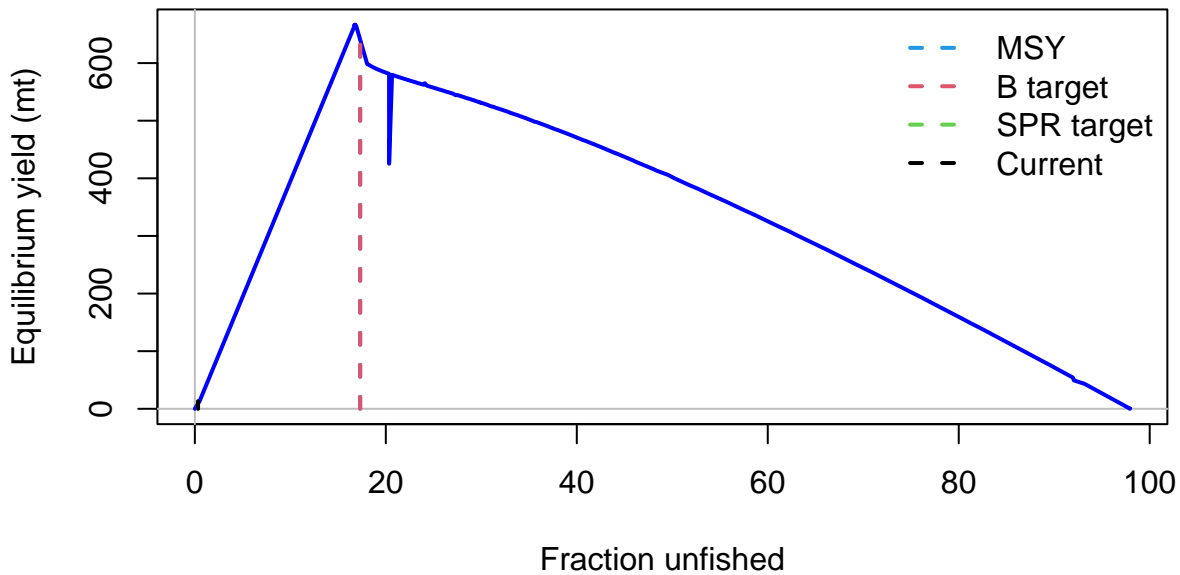
Effective sample size

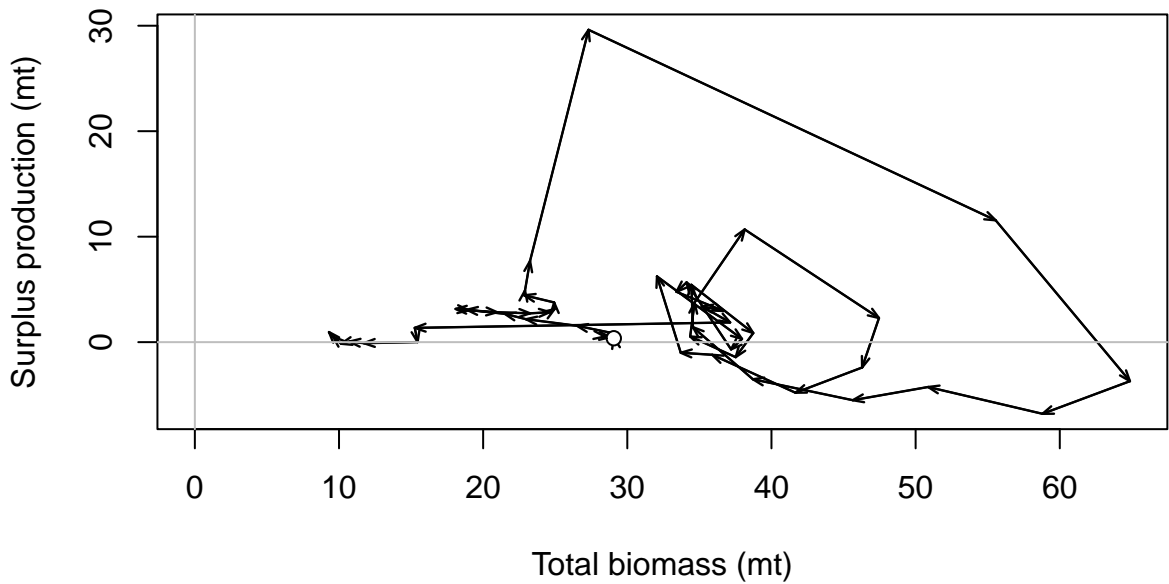


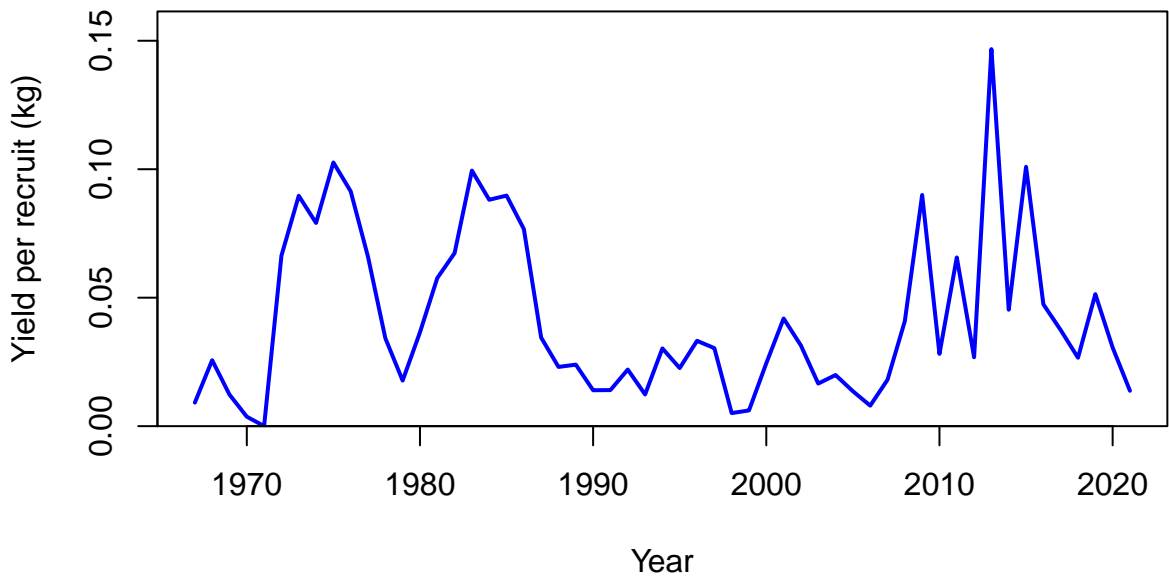
FISHERY (whole catch)



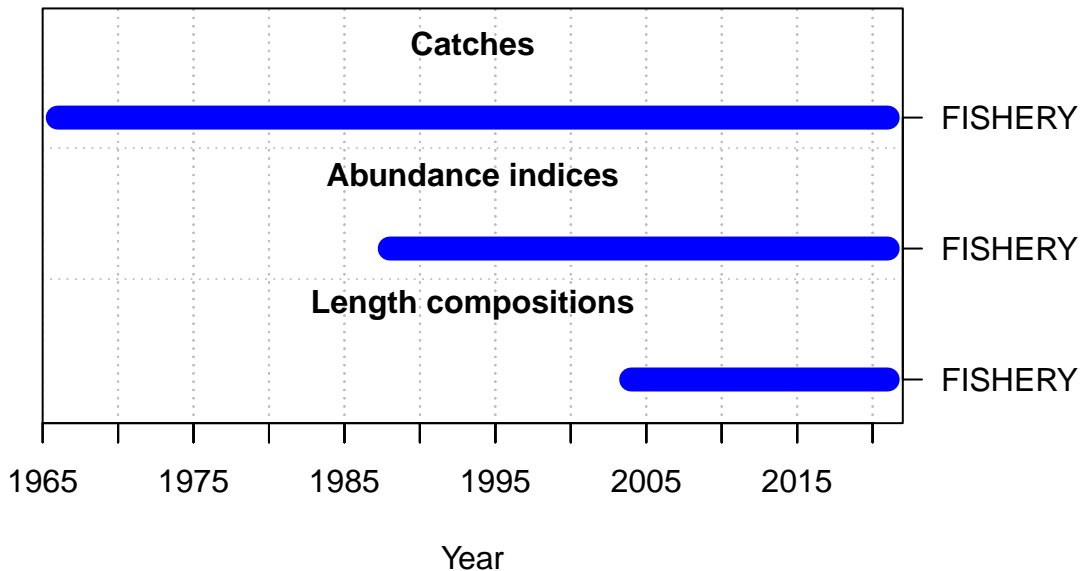


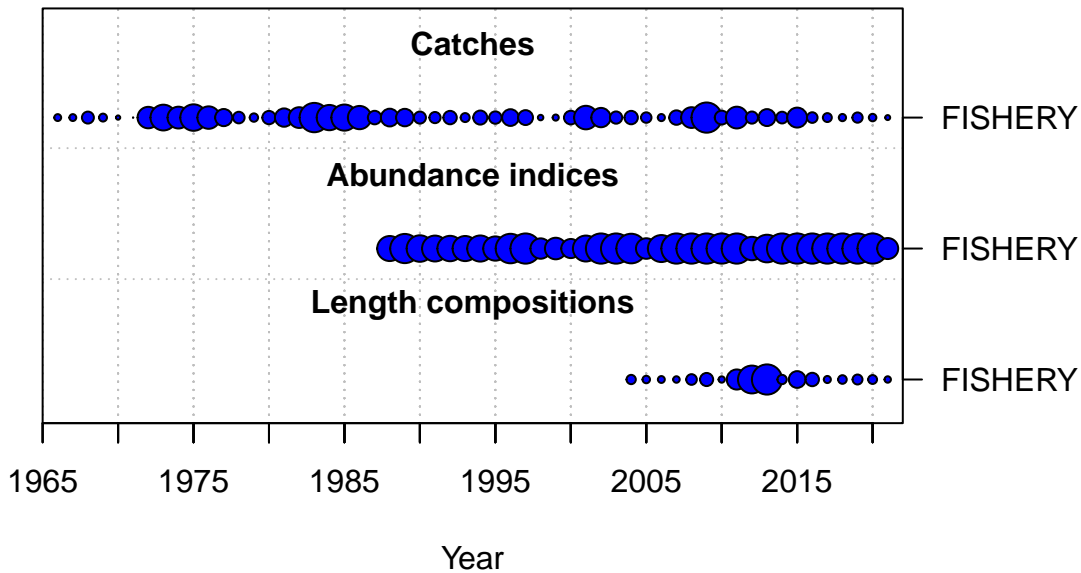






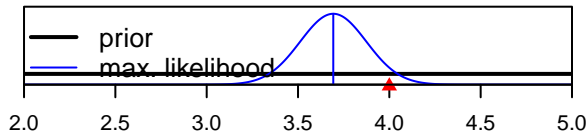




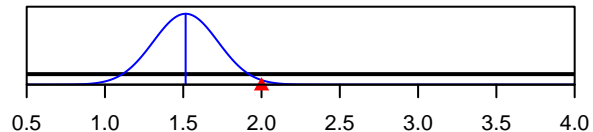


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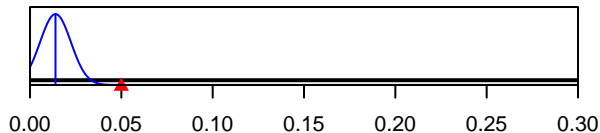
SR\_LN(R0)



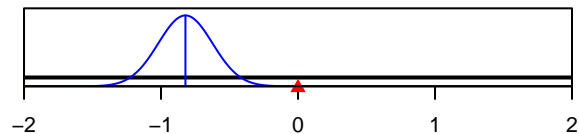
Size\_95%width\_FISHERY(1)



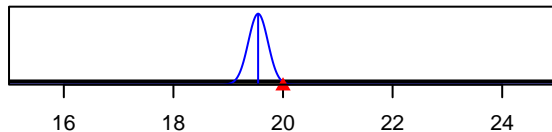
InitF\_seas\_1\_flt\_1FISHERY



LnQ\_base\_FISHERY(1)



Size\_inflection\_FISHERY(1)



Parameter value