

Plots created using the 'r4ss' package in R

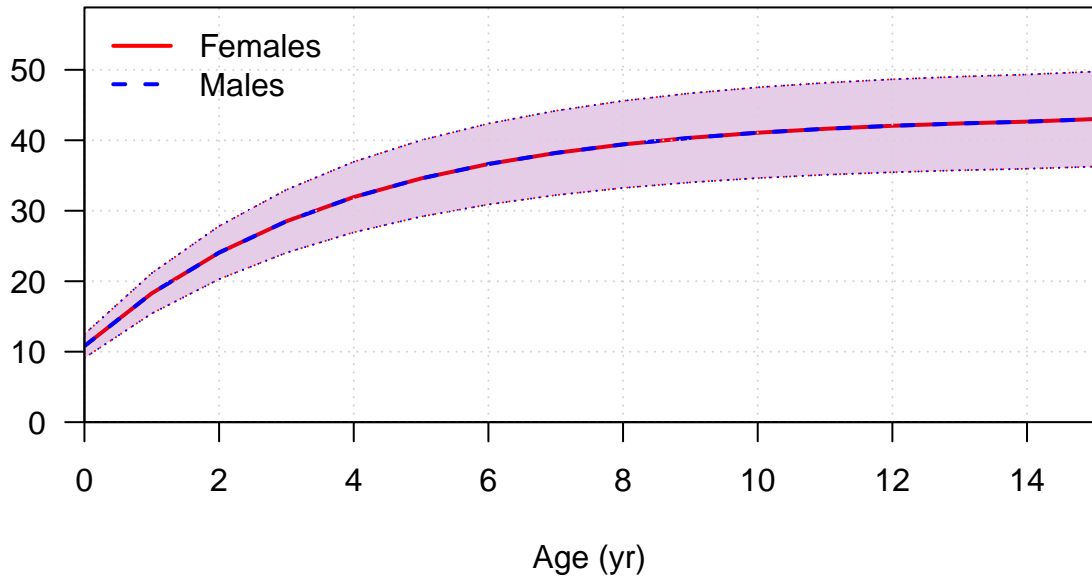
Stock Synthesis version: 3.30.19.0

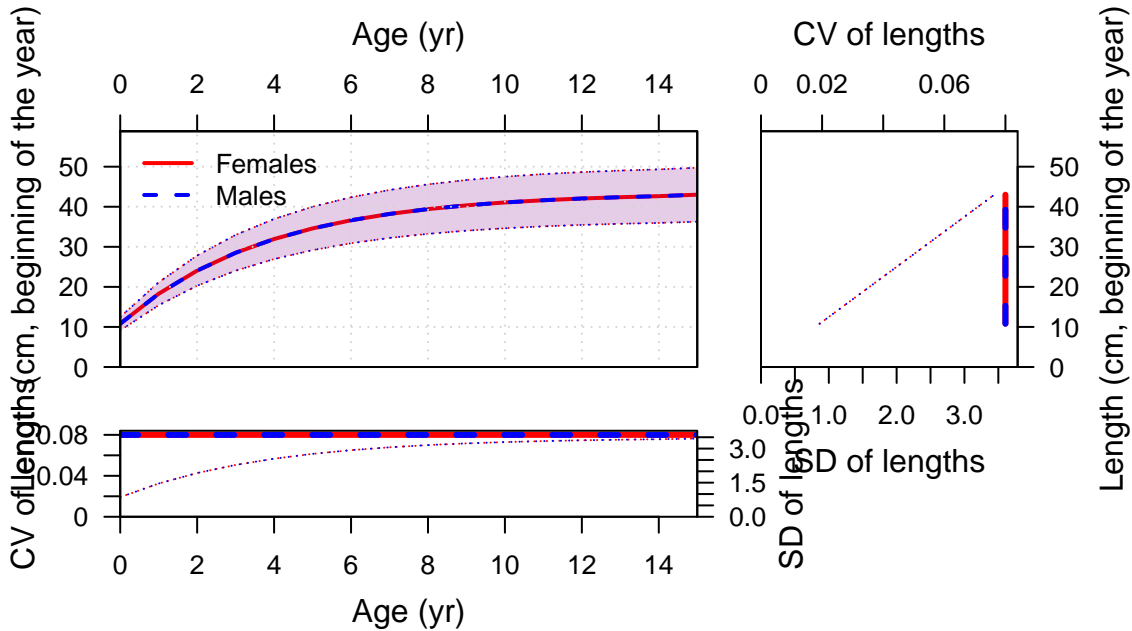
StartTime: Fri Jul 29 15:58:11 2022

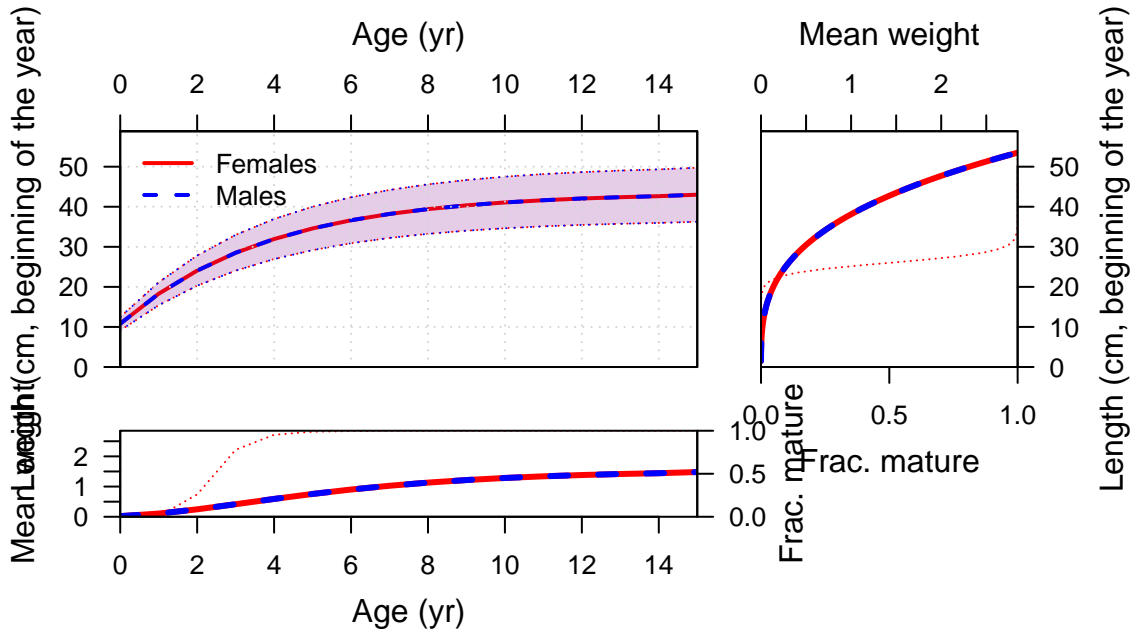
Data\_File: data.ss

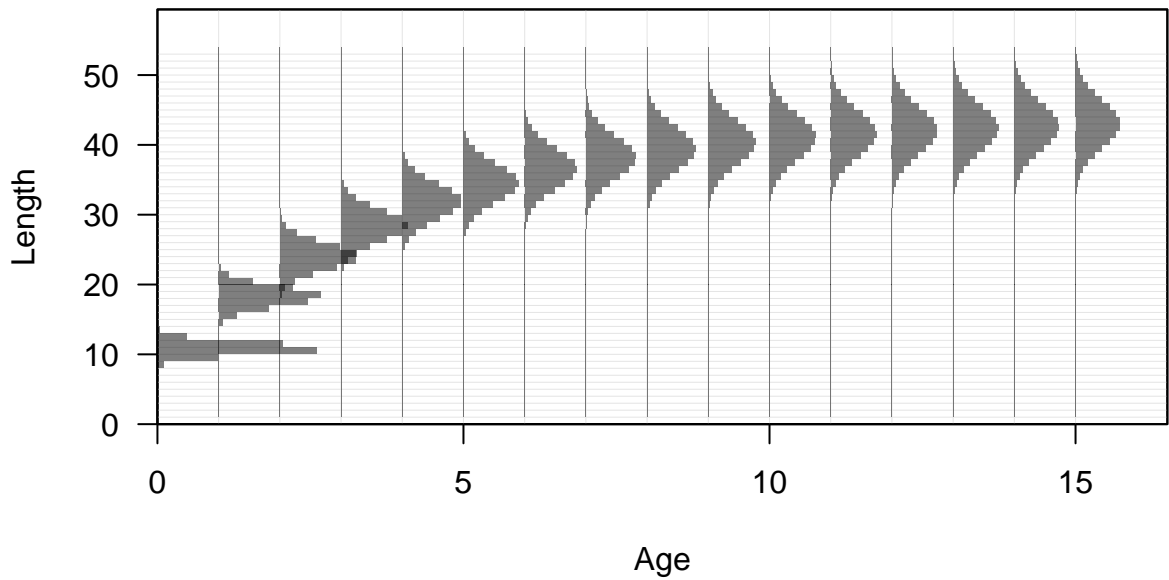
Control\_File: control.ss

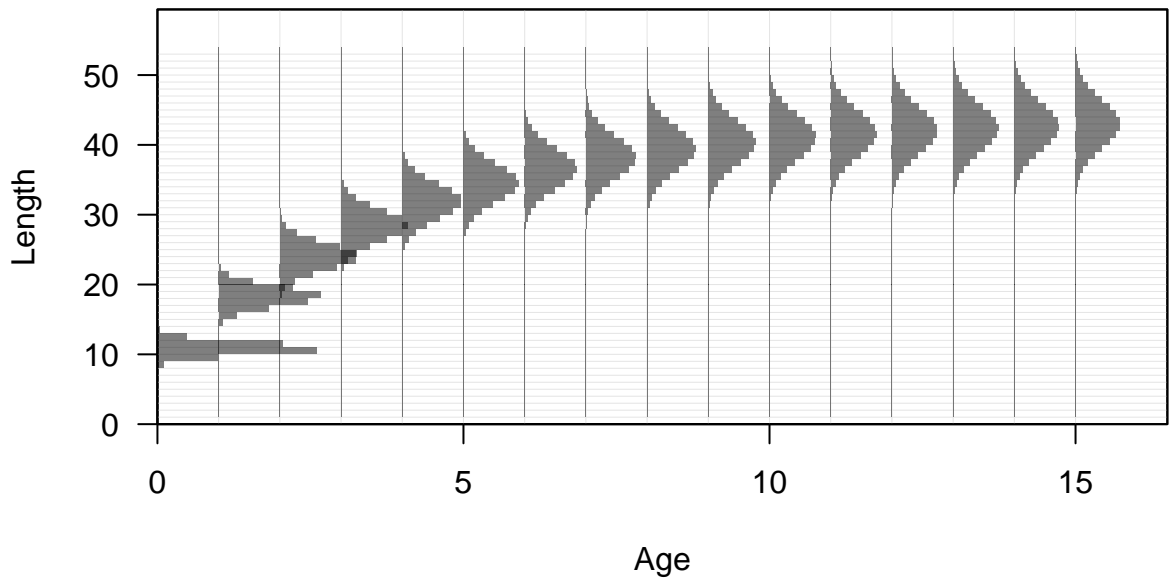
Length (cm, beginning of the year)

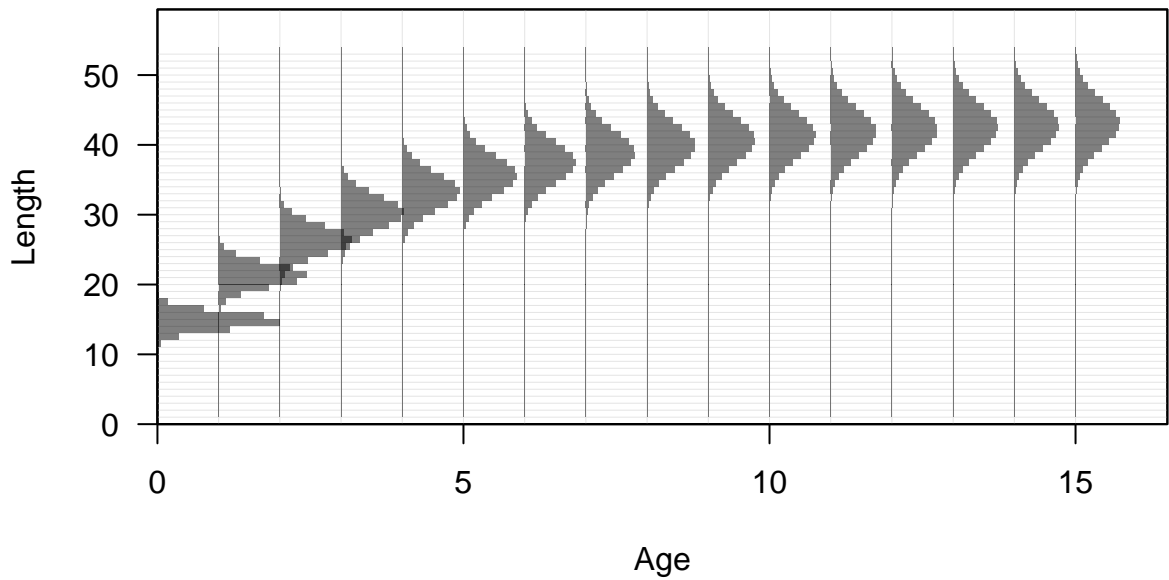


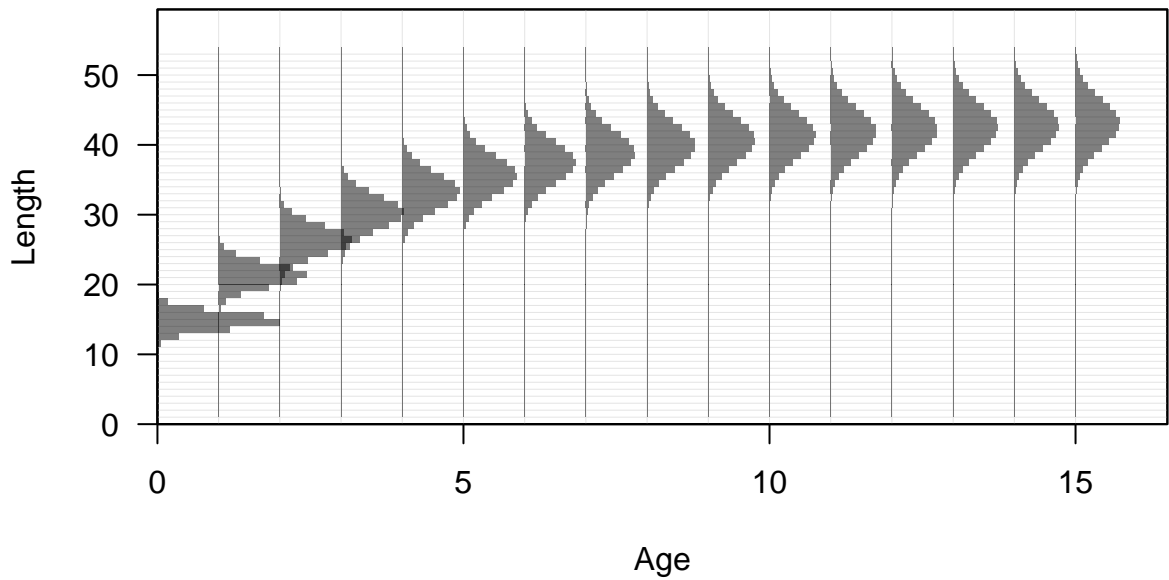




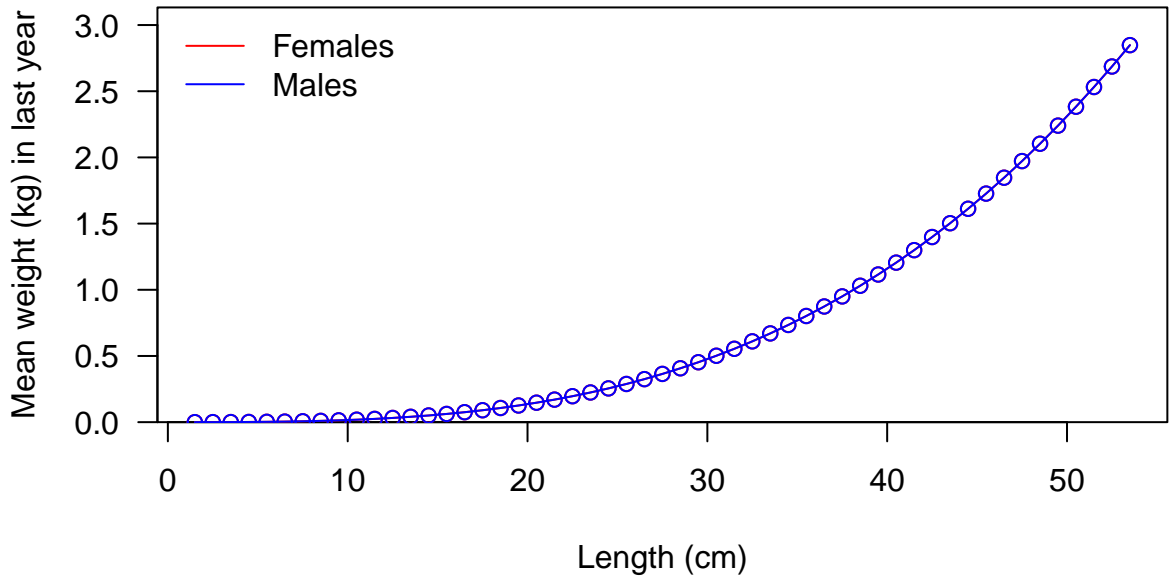


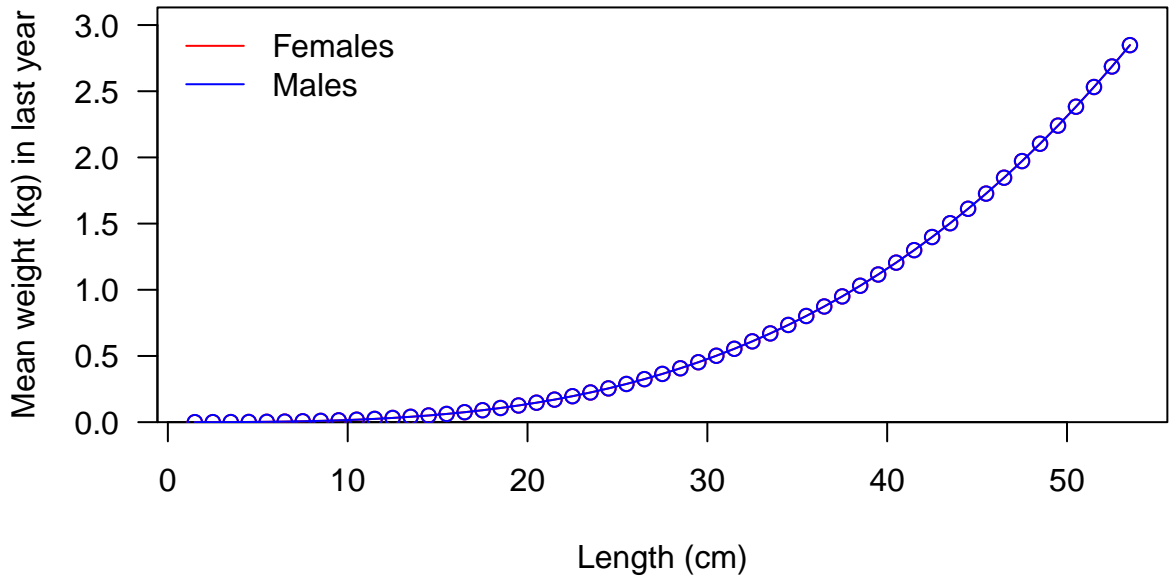


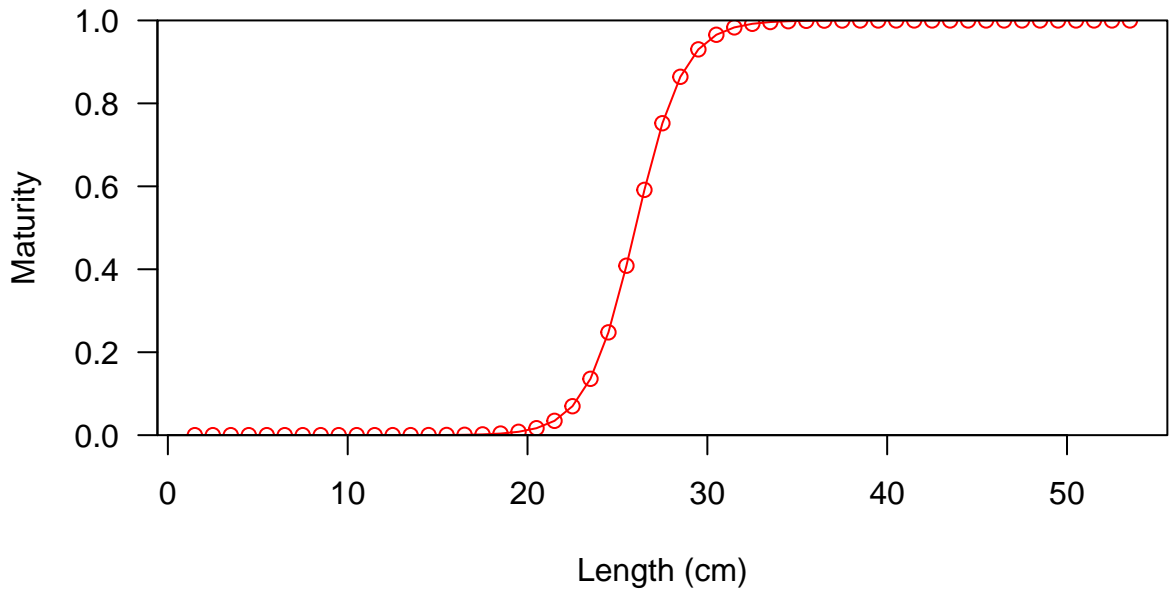


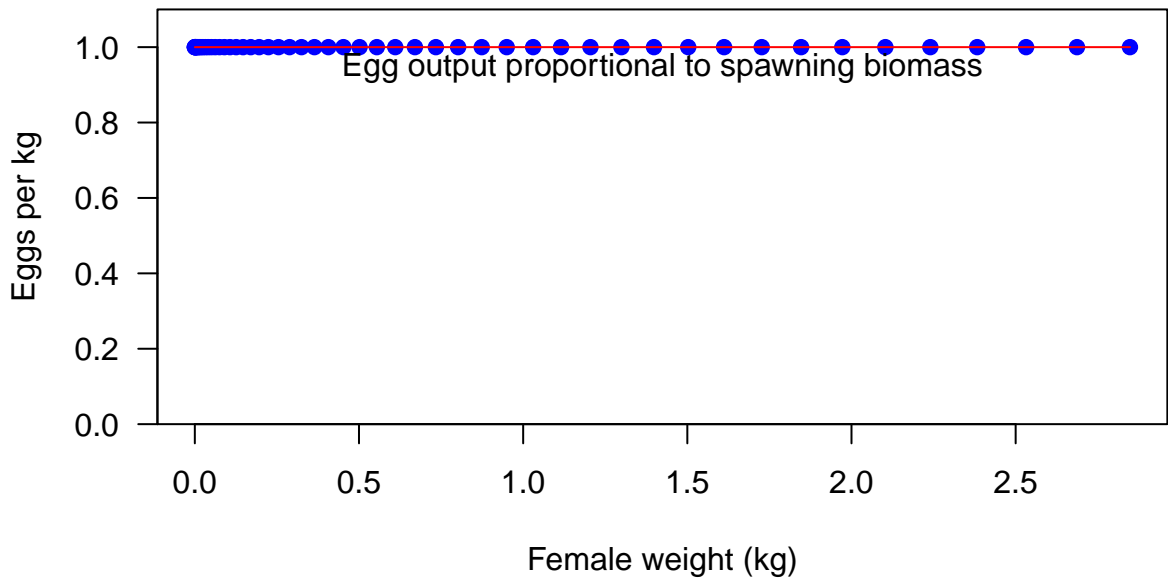


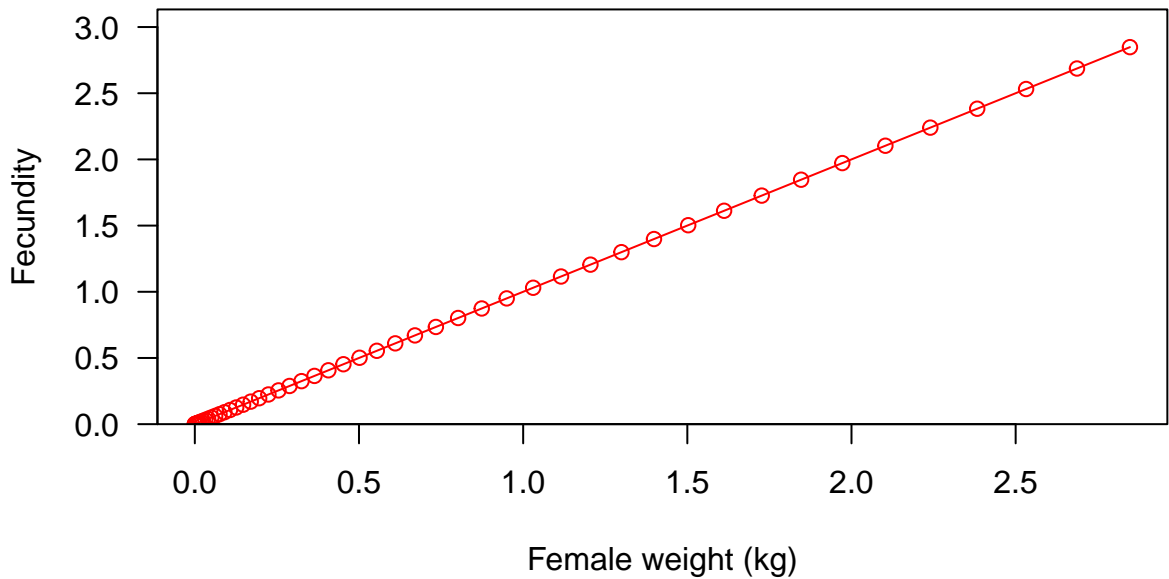


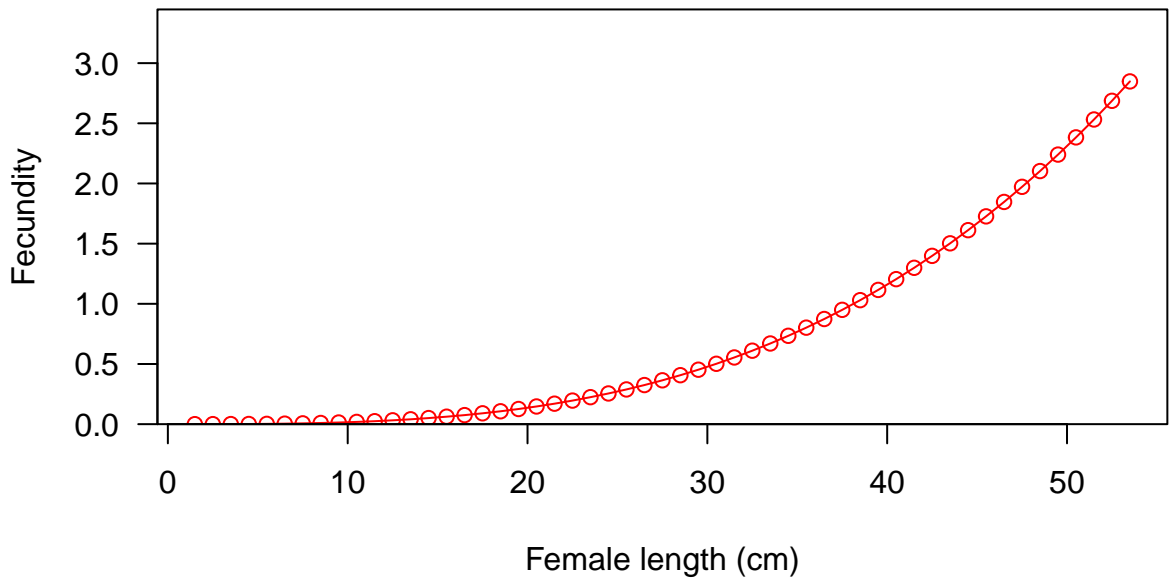


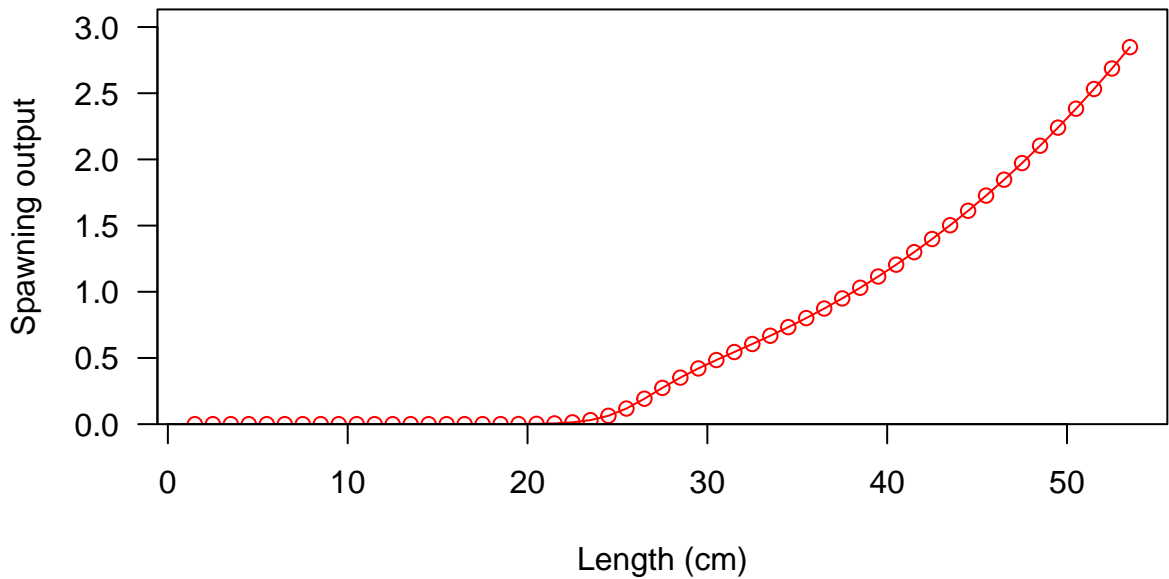


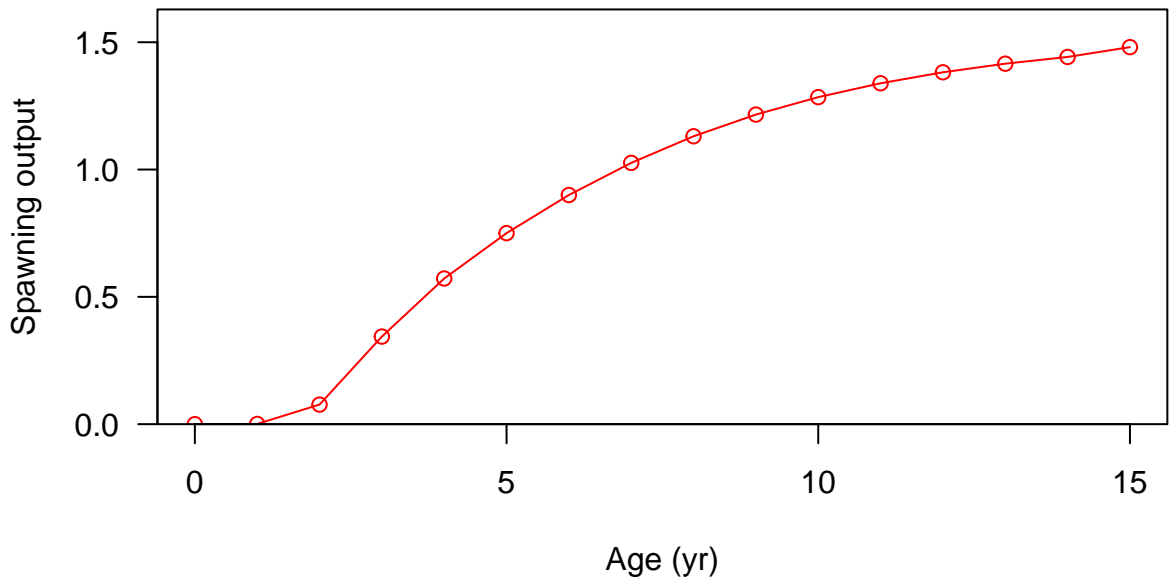














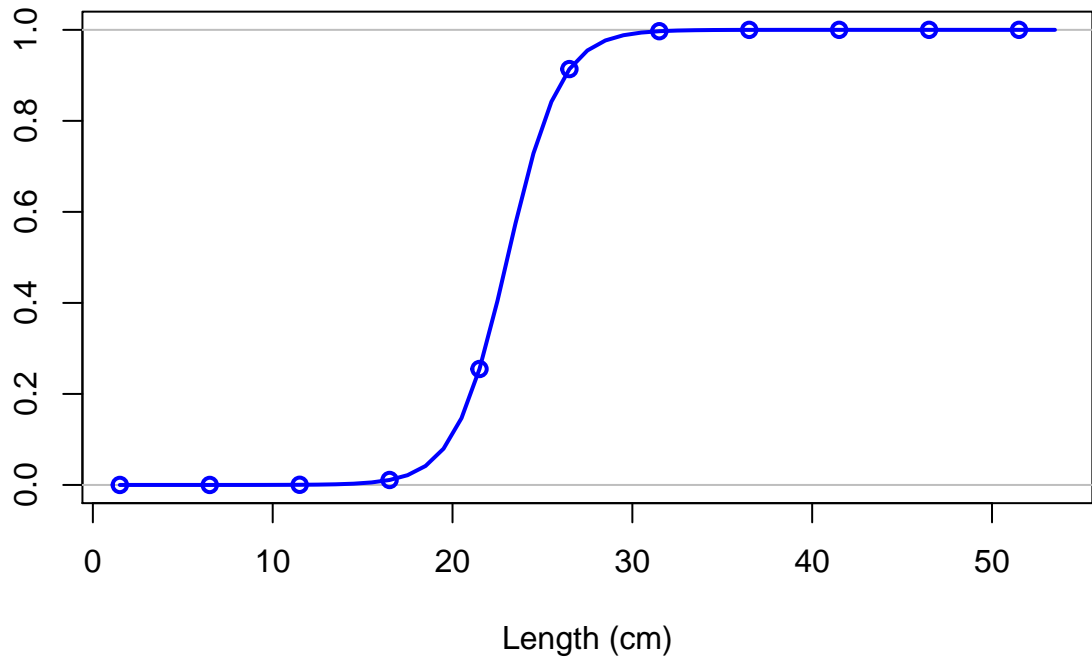
Hermaphroditism transition rate



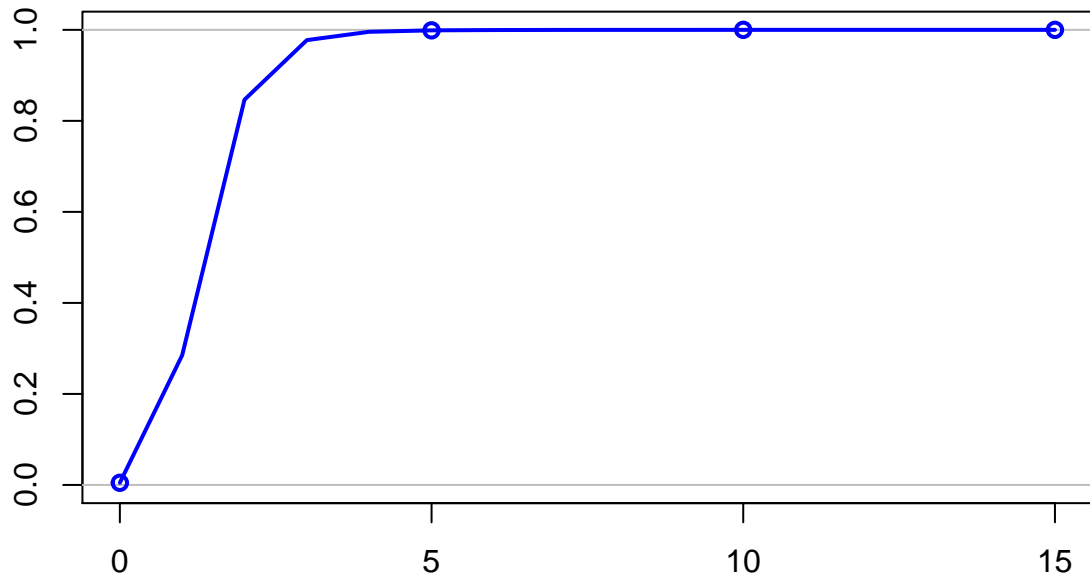
Fraction females by age at equilibrium



Selectivity

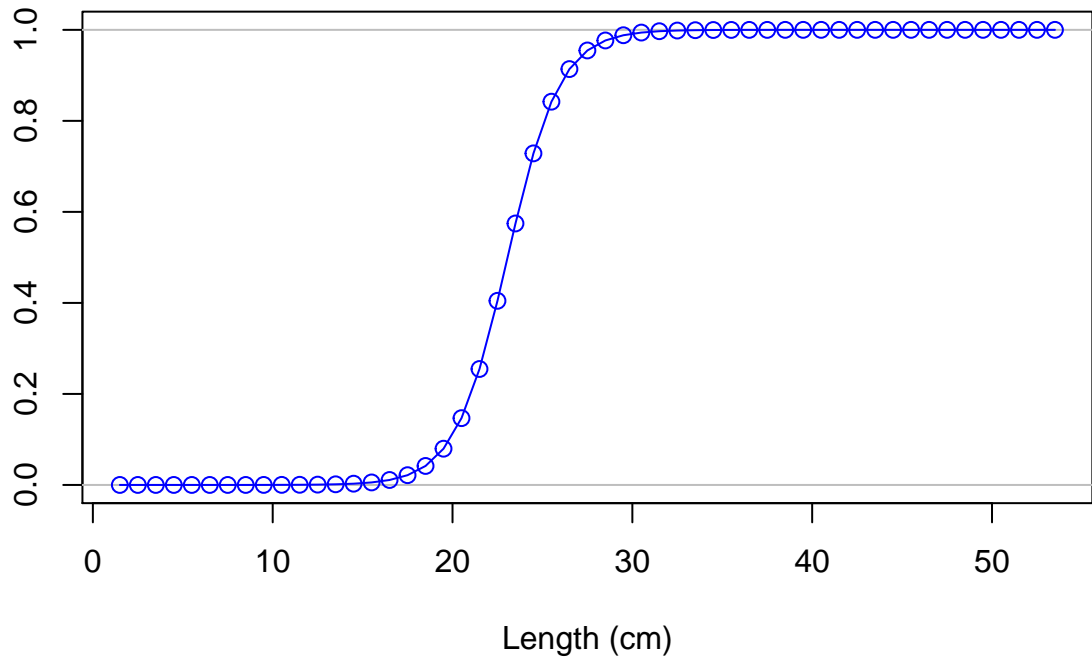


Selectivity

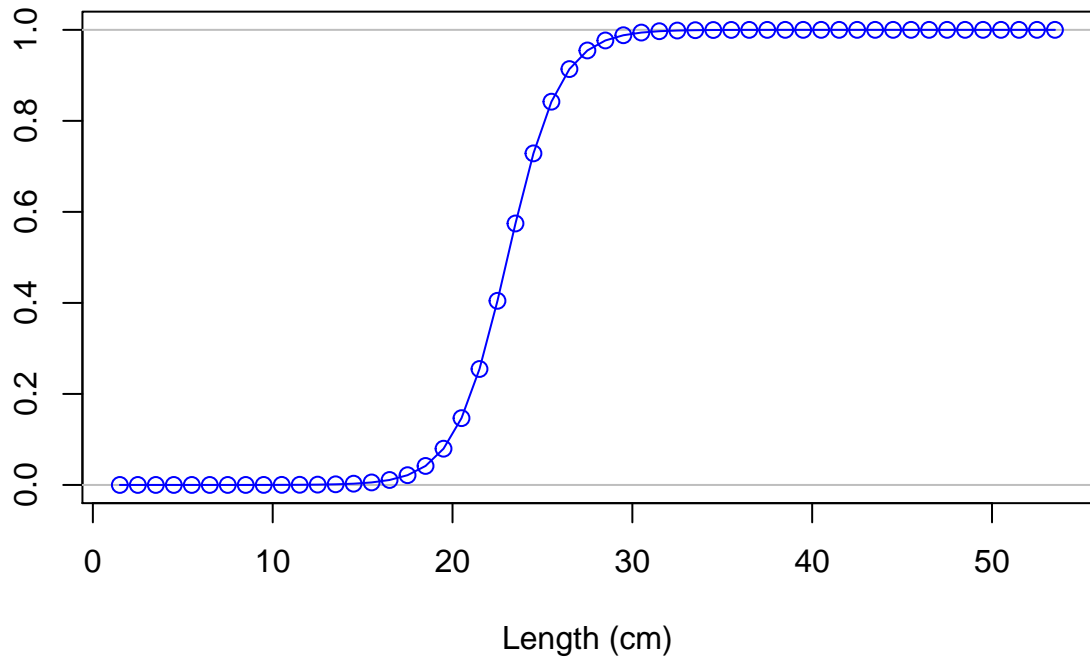


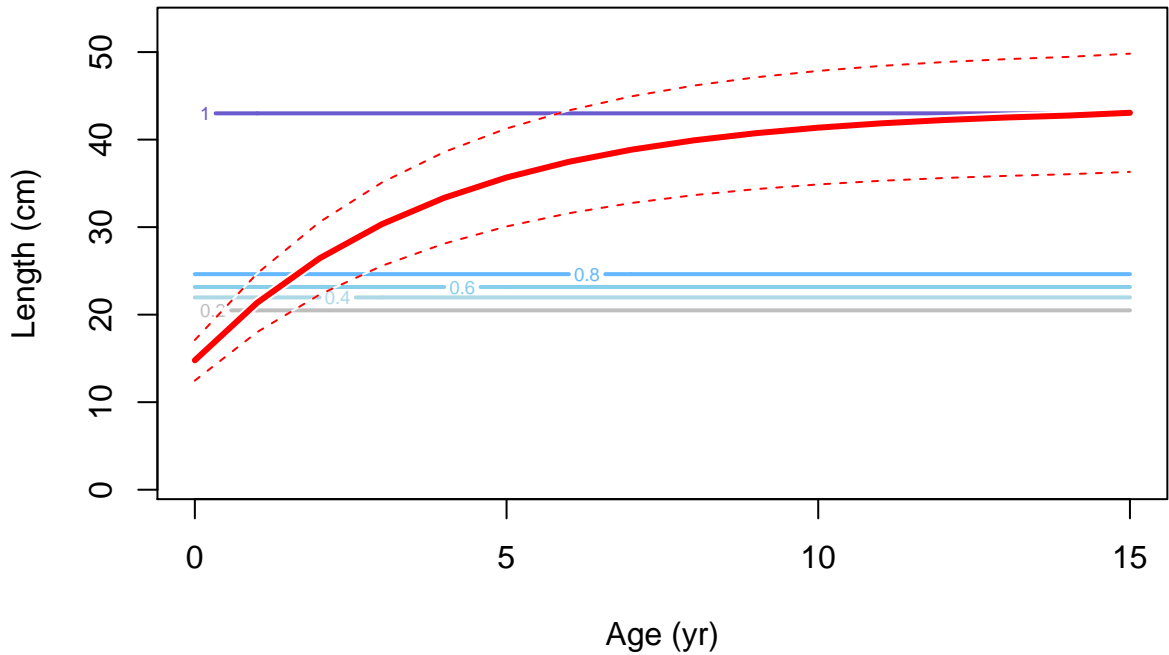
Age (yr)

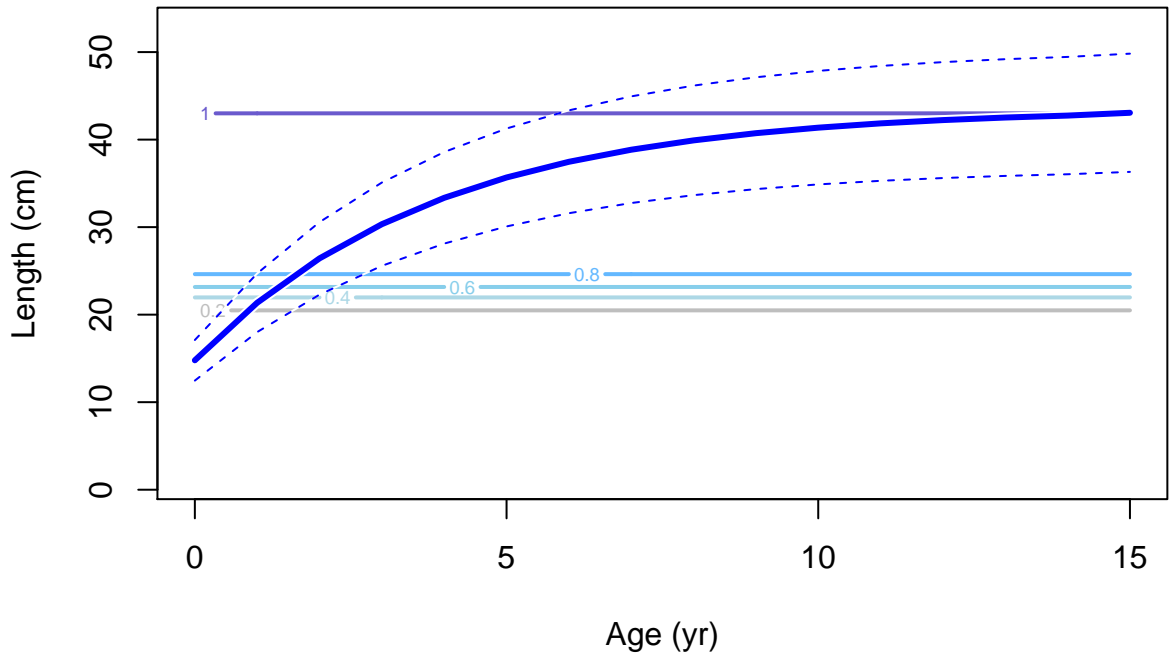
Selectivity



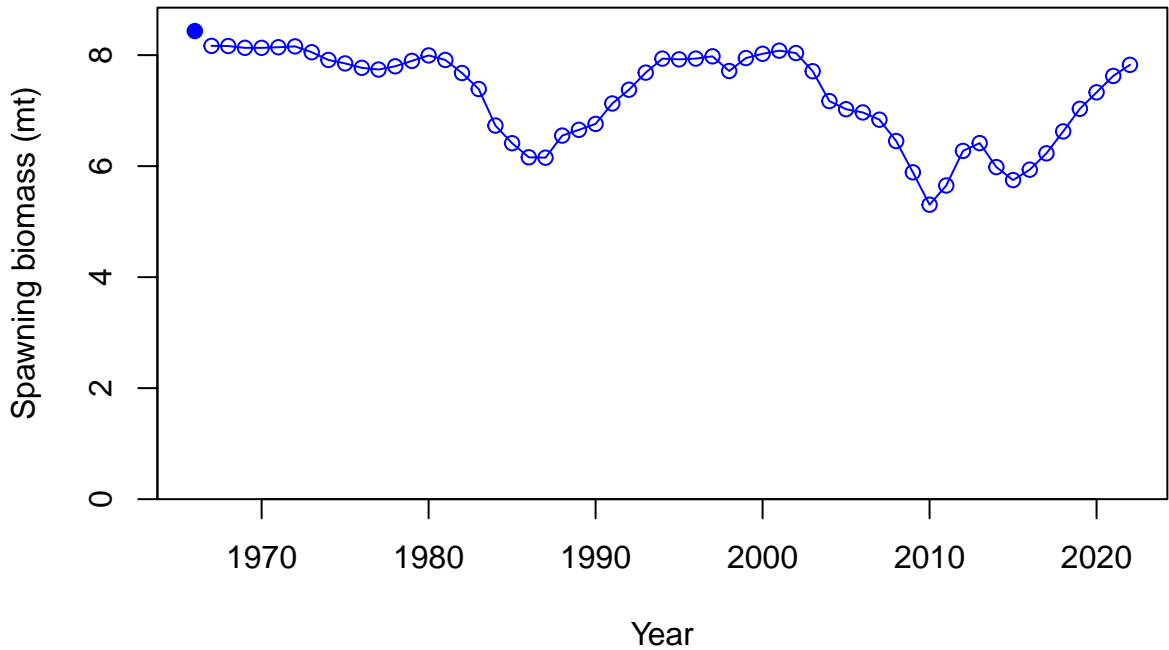
Selectivity

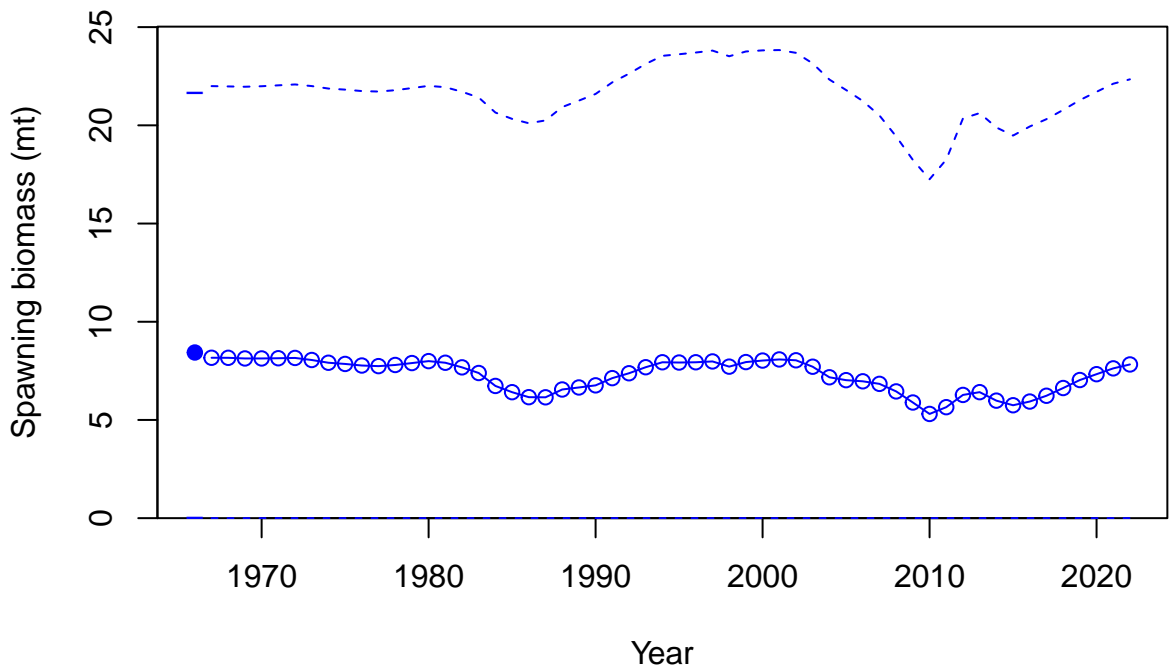




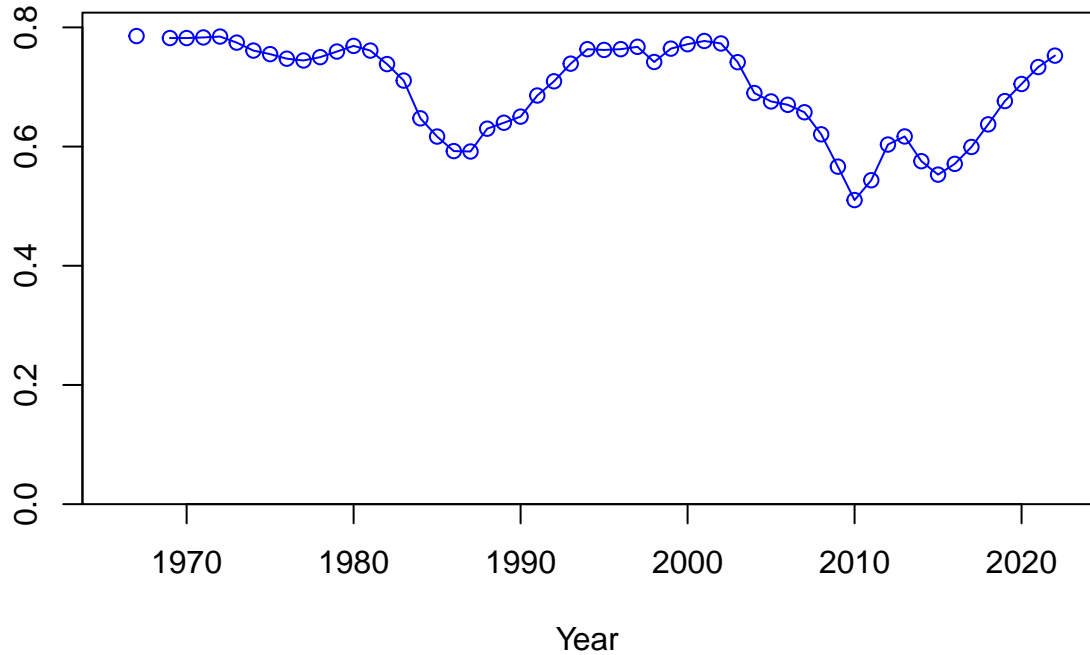




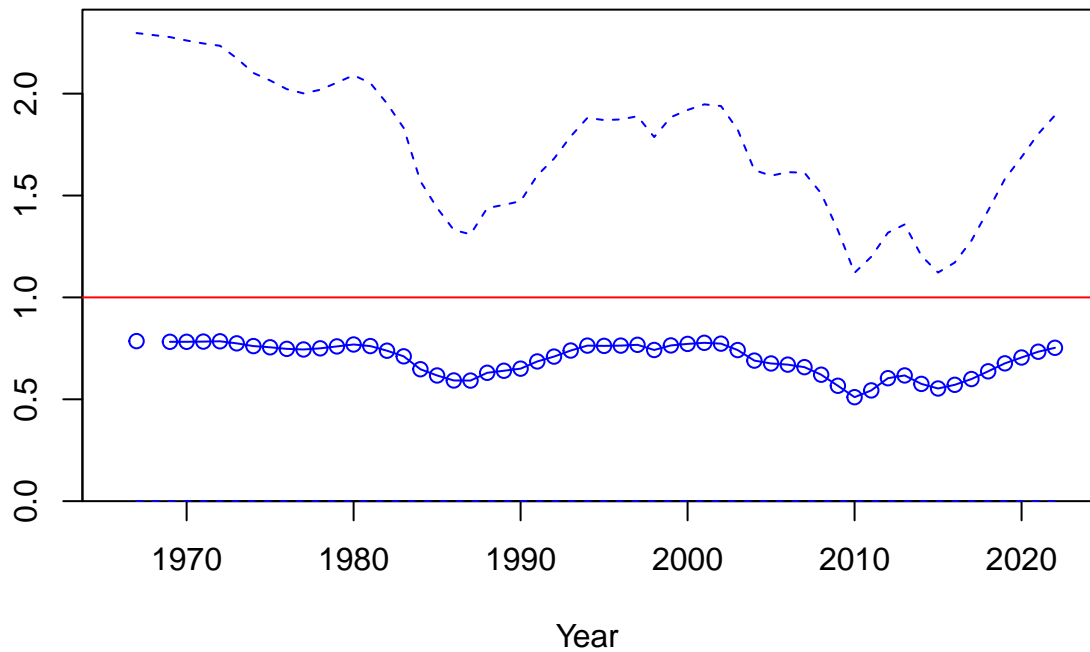


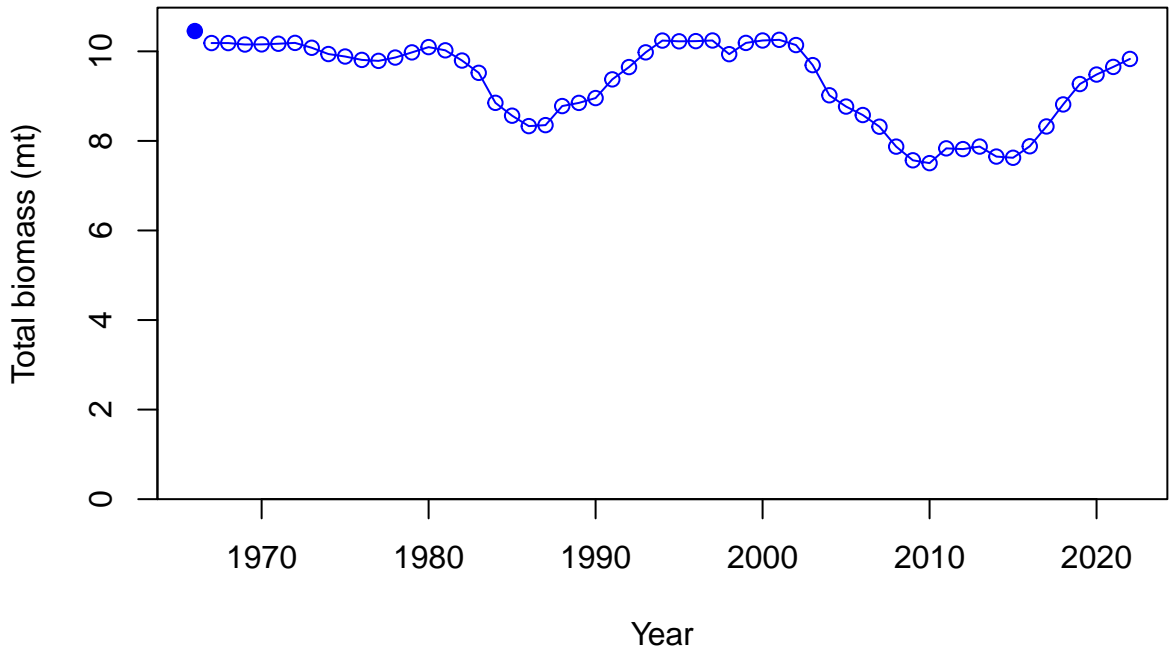


Relative spawning biomass:  $B/B_{MSY}$

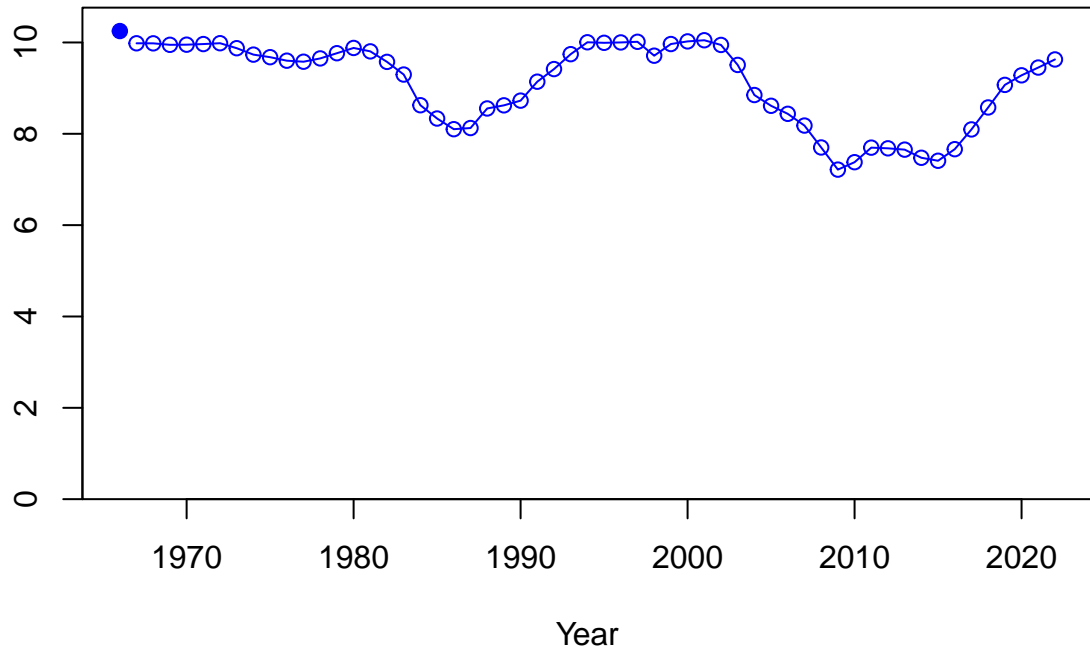


Relative spawning biomass:  $B/B_{MSY}$

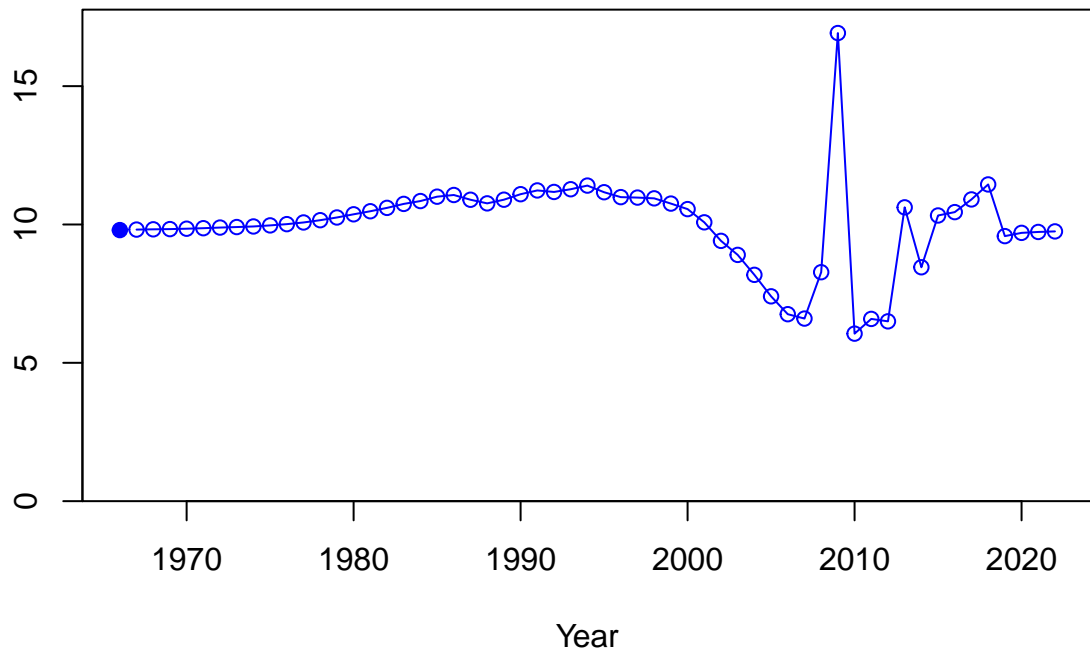




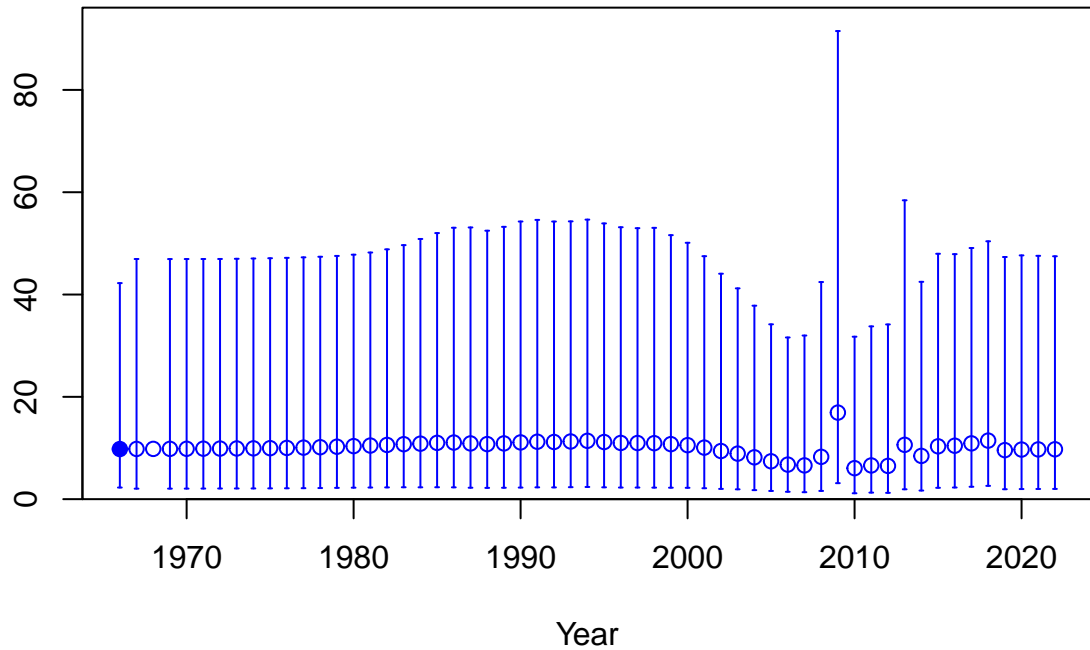
Summary biomass (mt)



Age-0 recruits (1,000s)

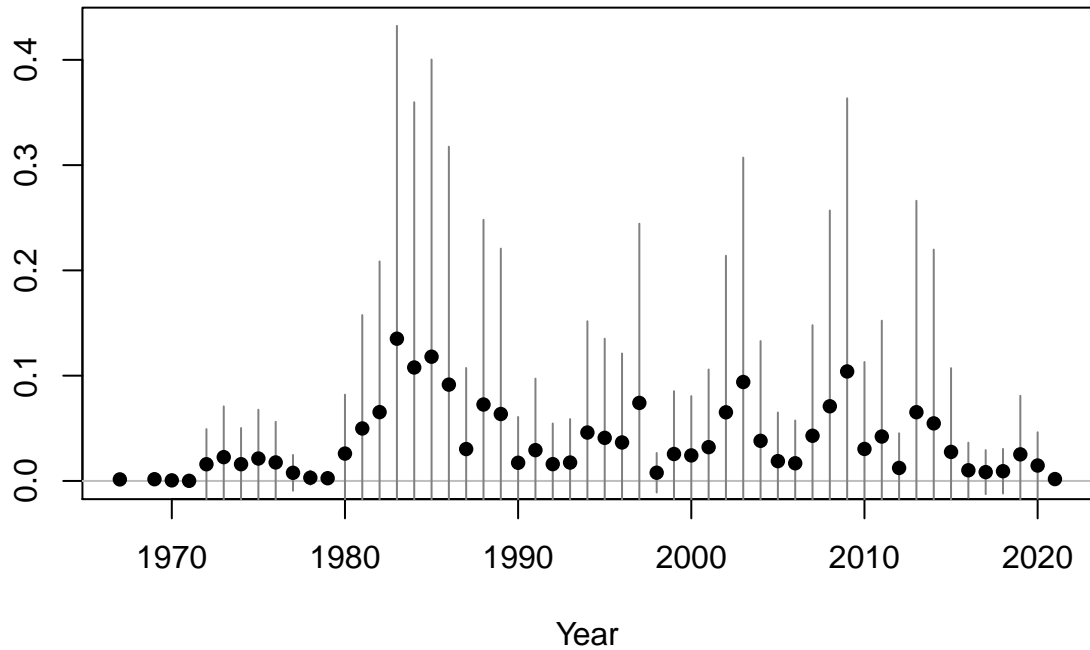


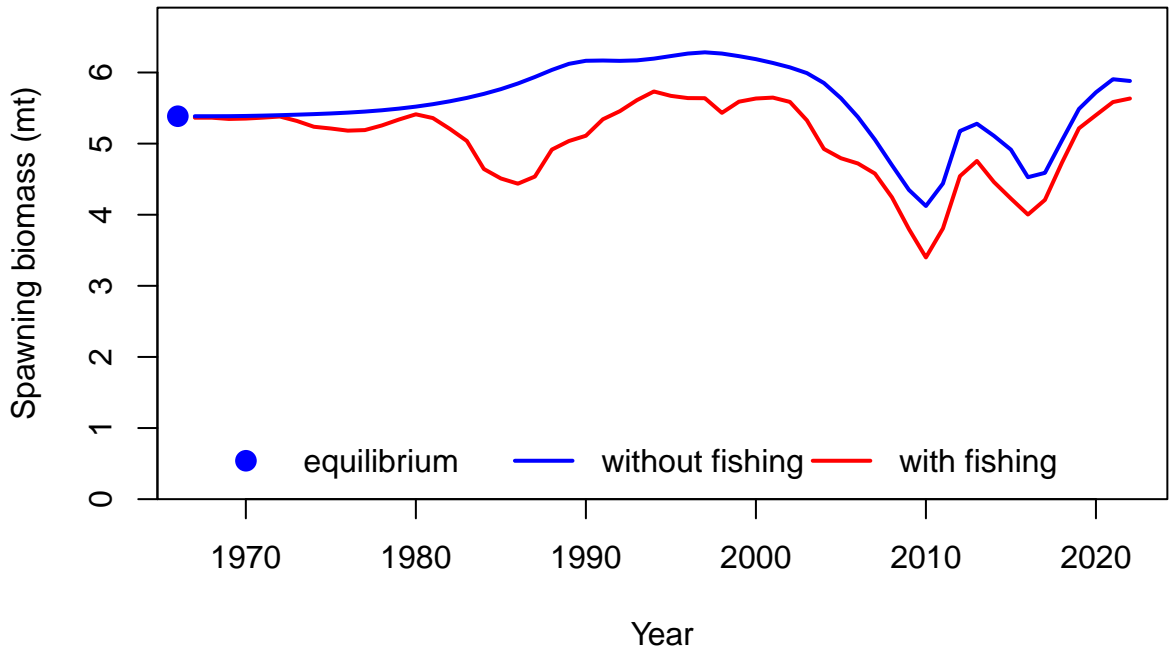
Age-0 recruits (1,000s)



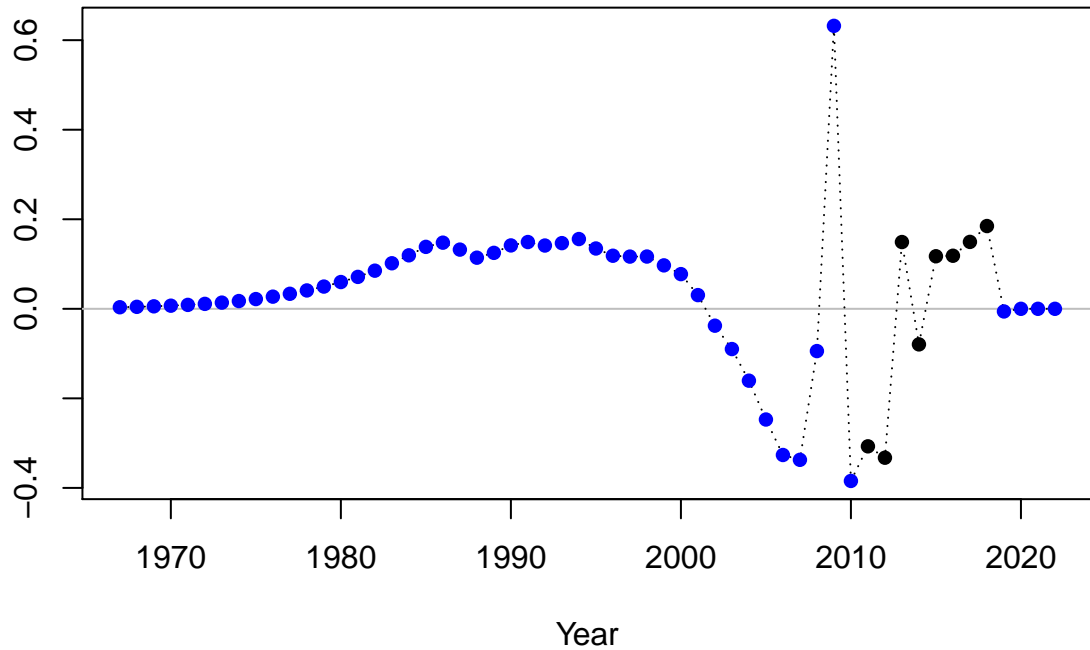


Summary Fishing Mortality

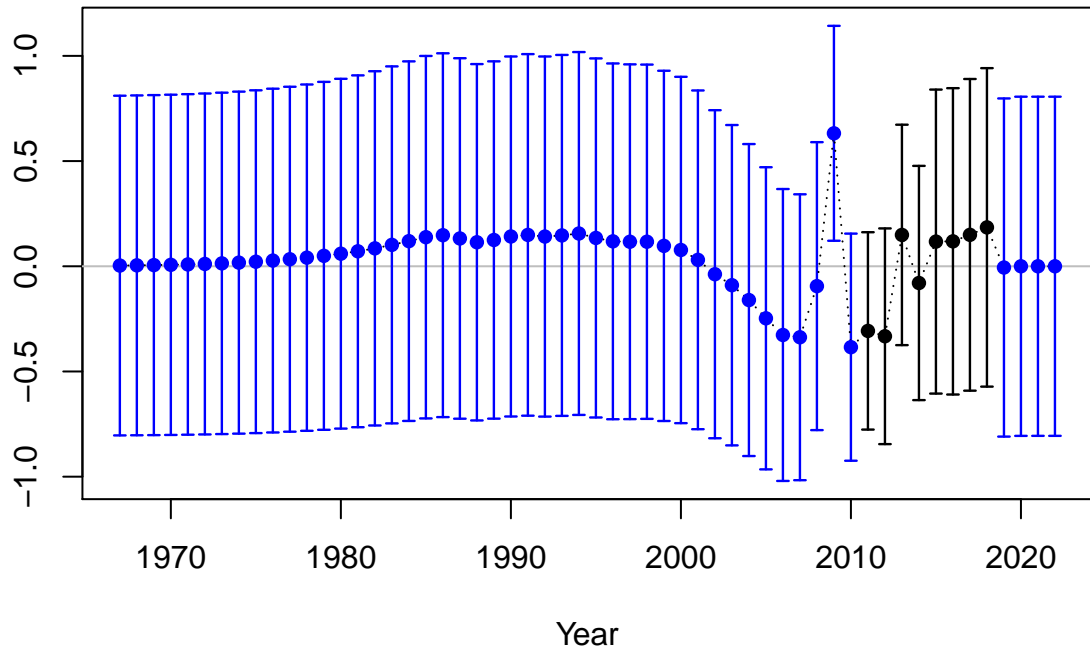




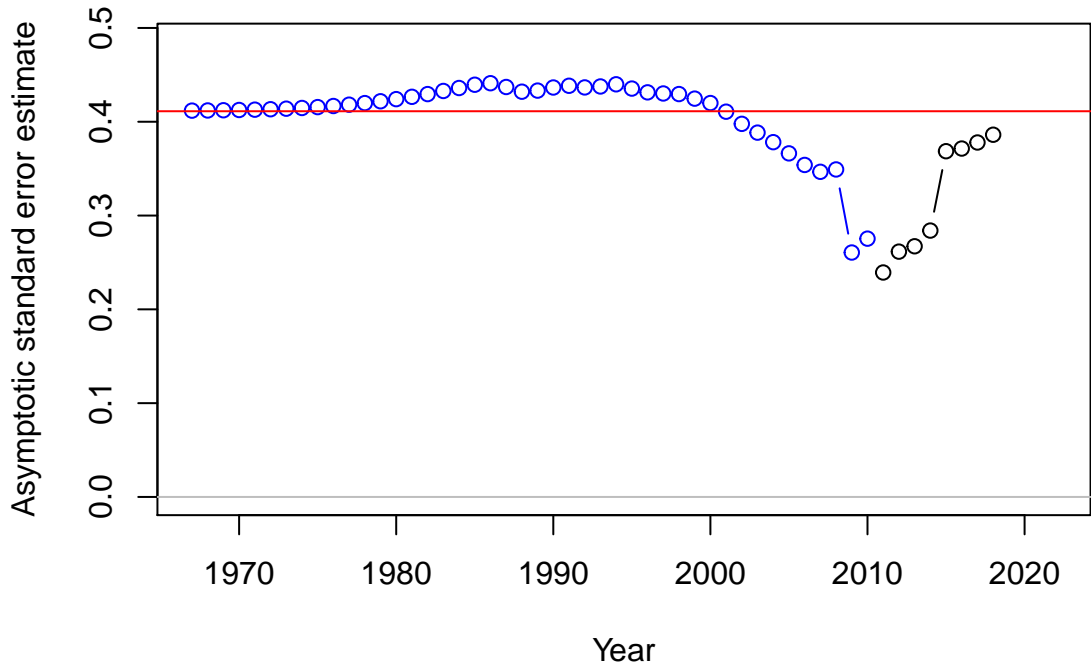
Log recruitment deviation

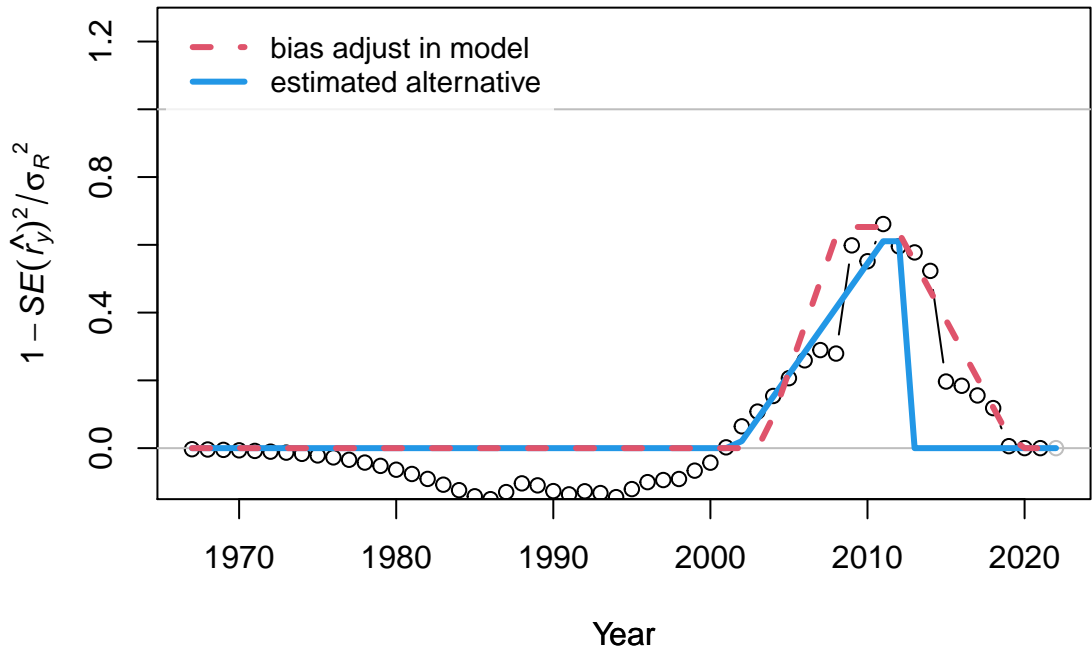


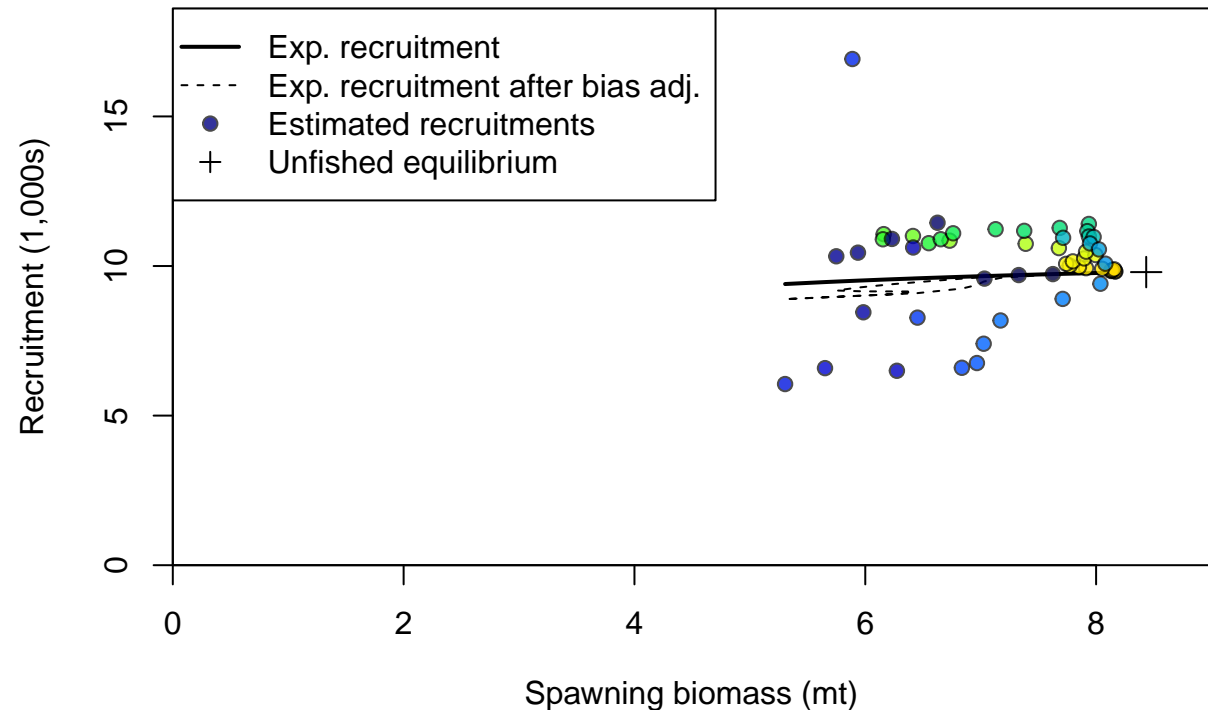
Log recruitment deviation

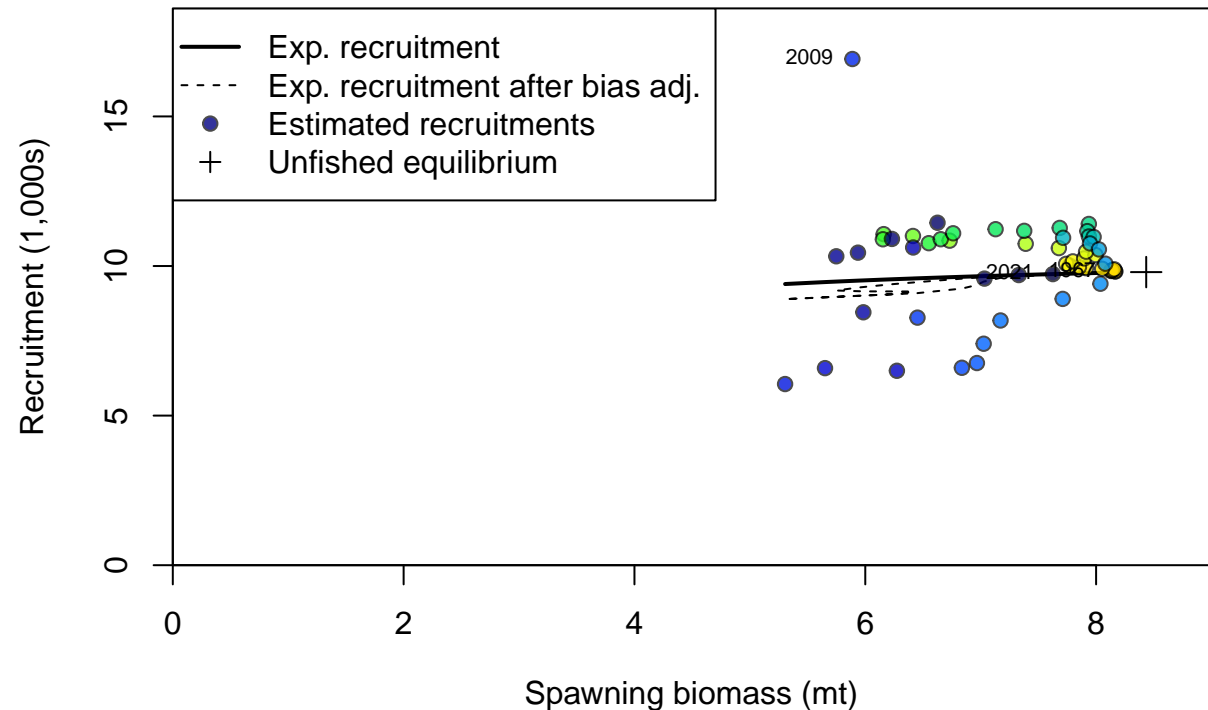


## Recruitment deviation variance

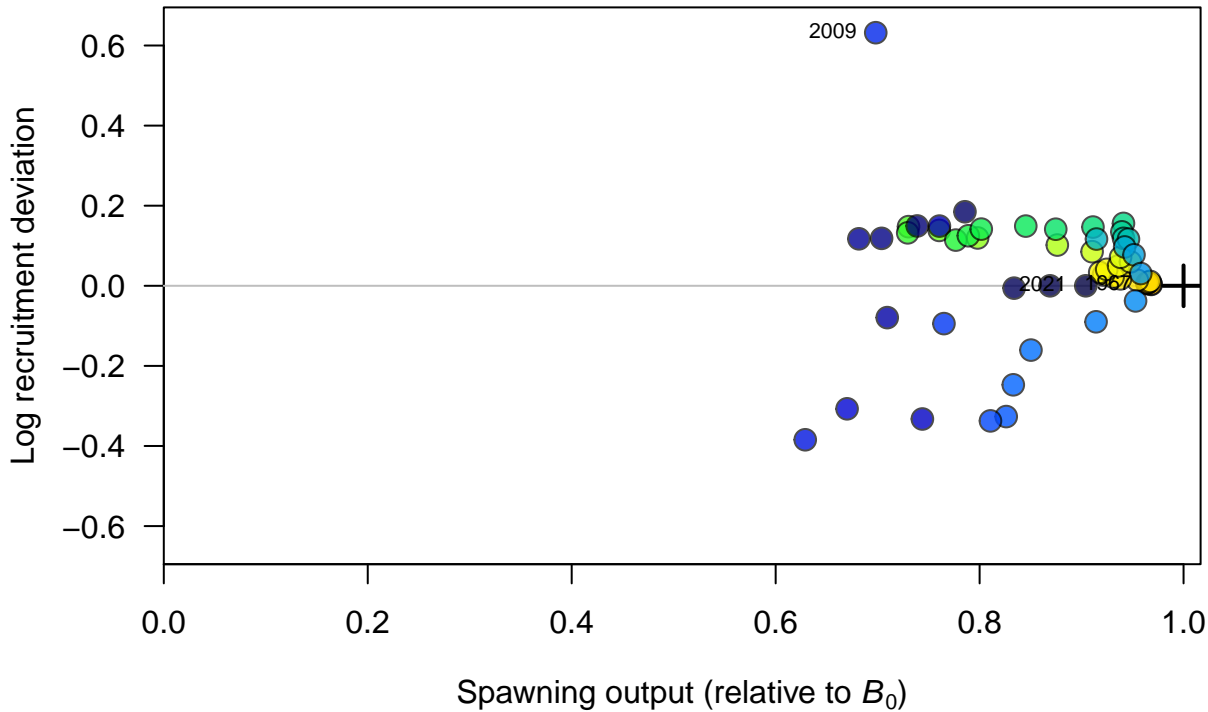


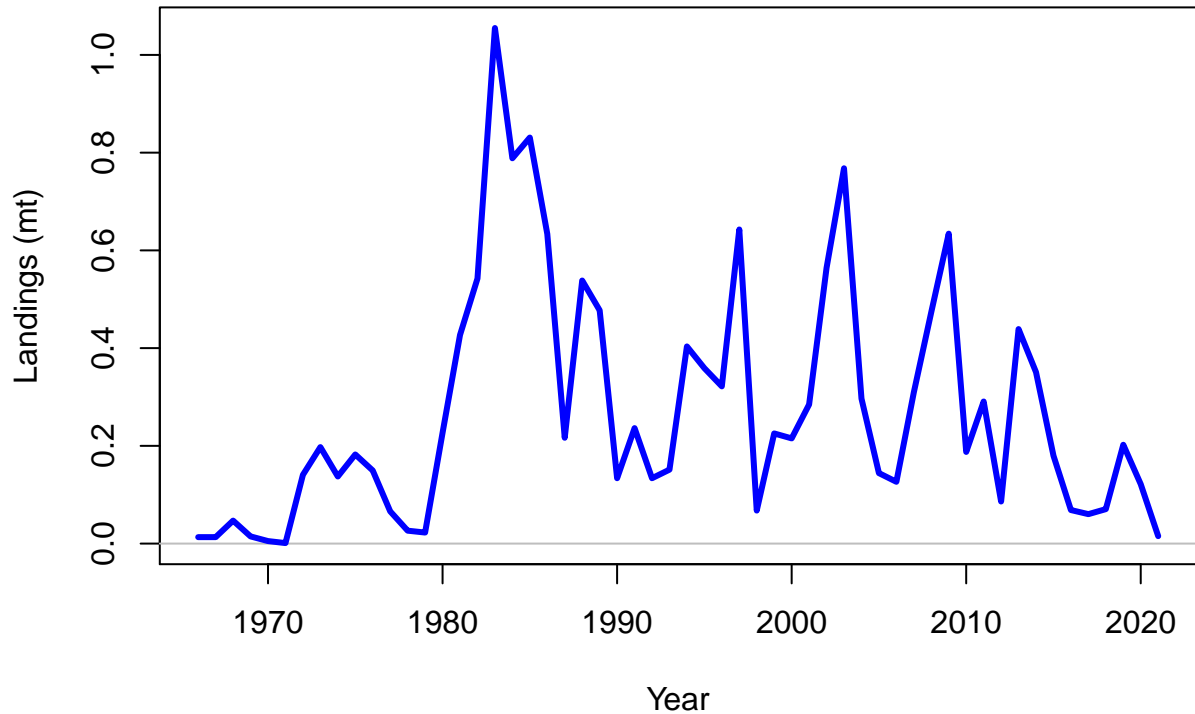


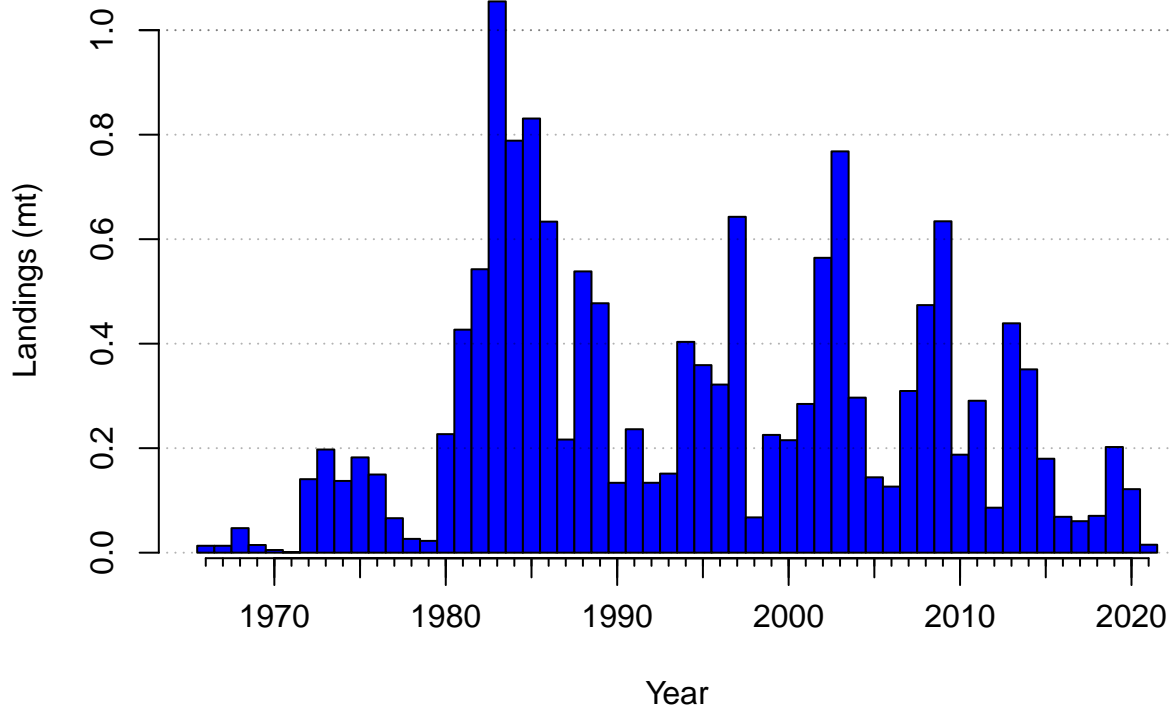


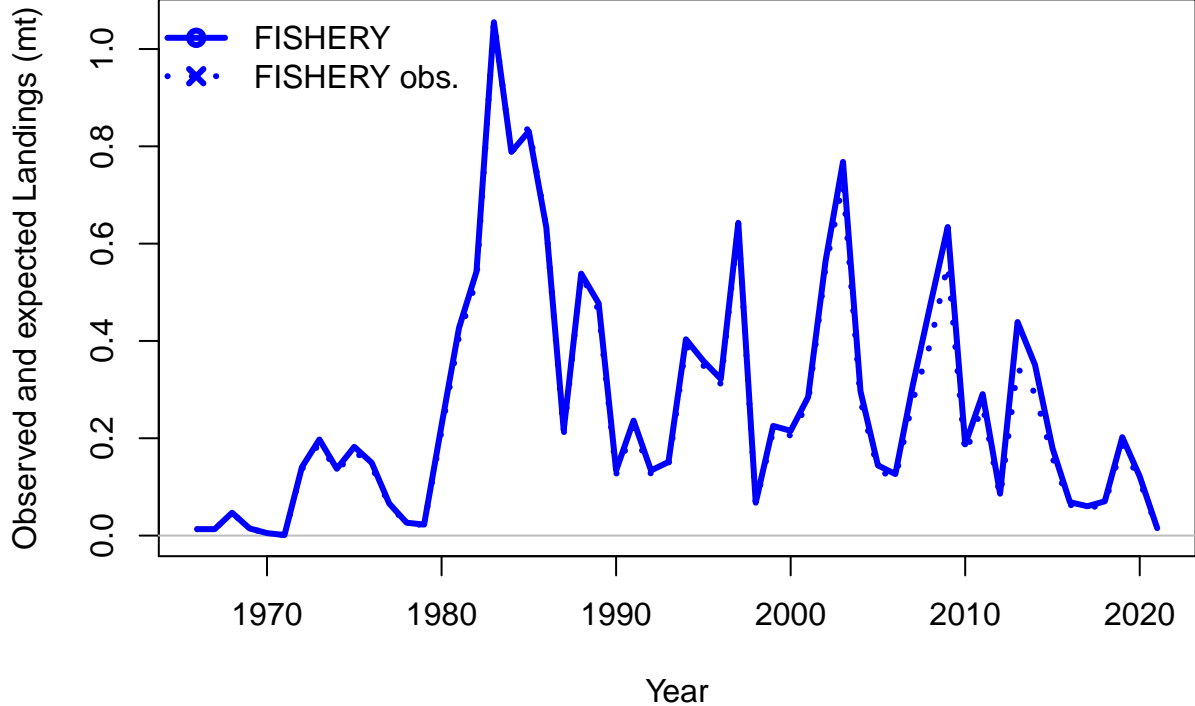


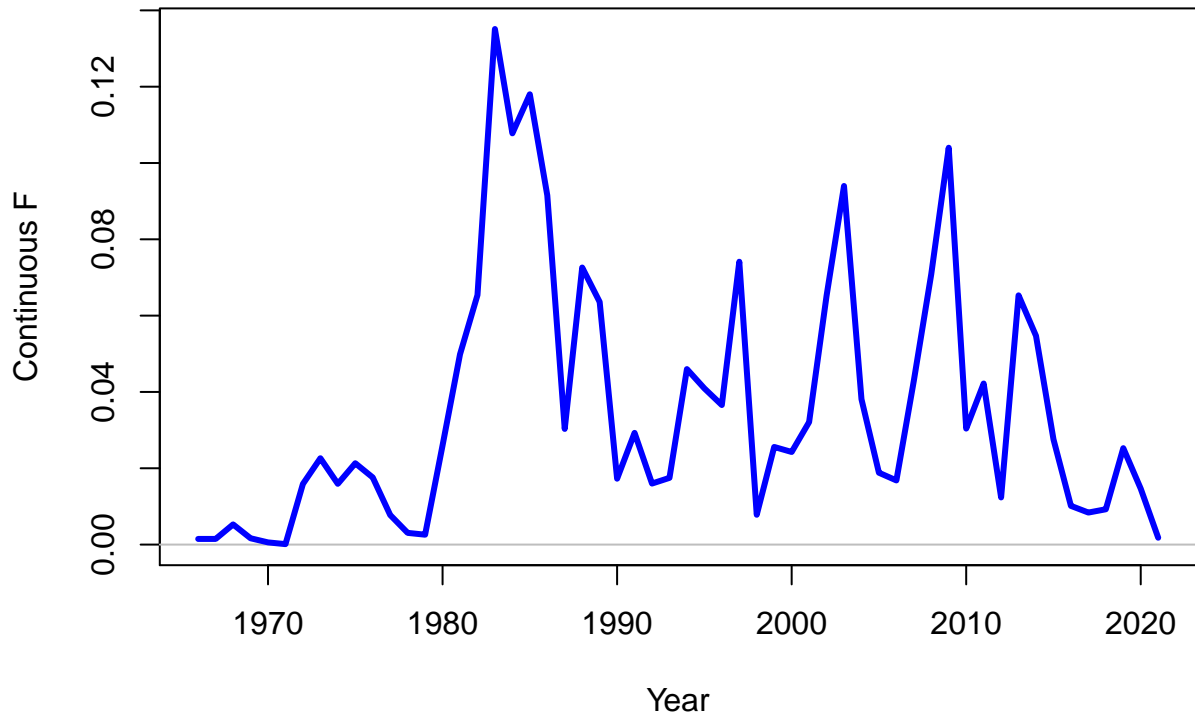




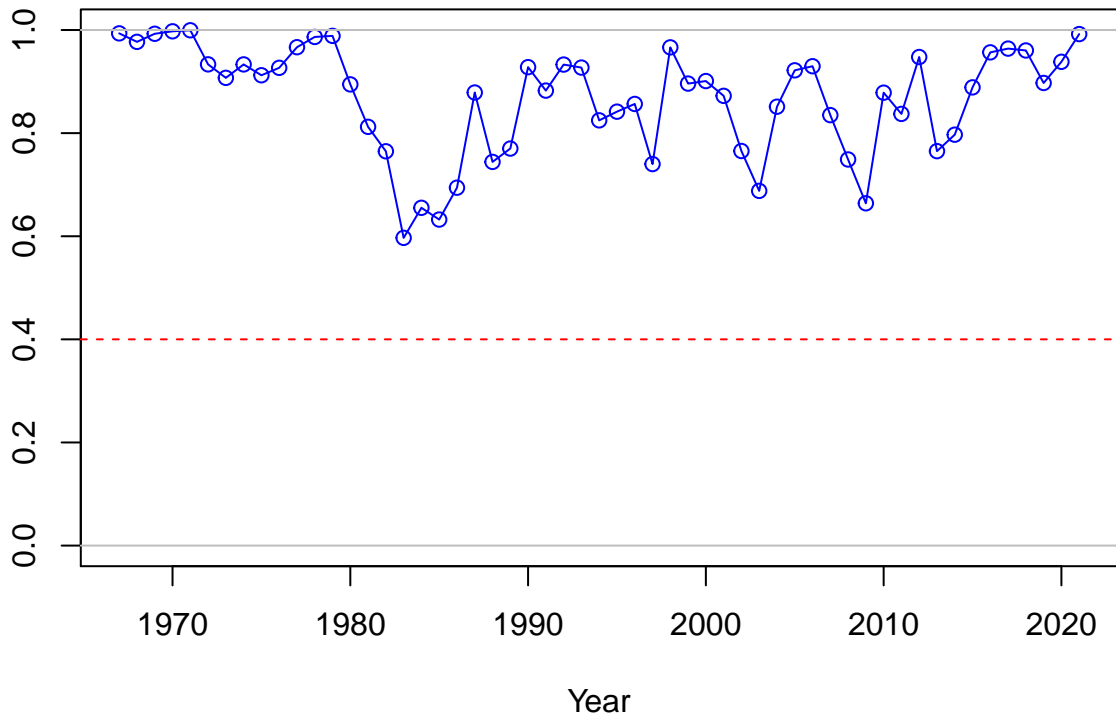




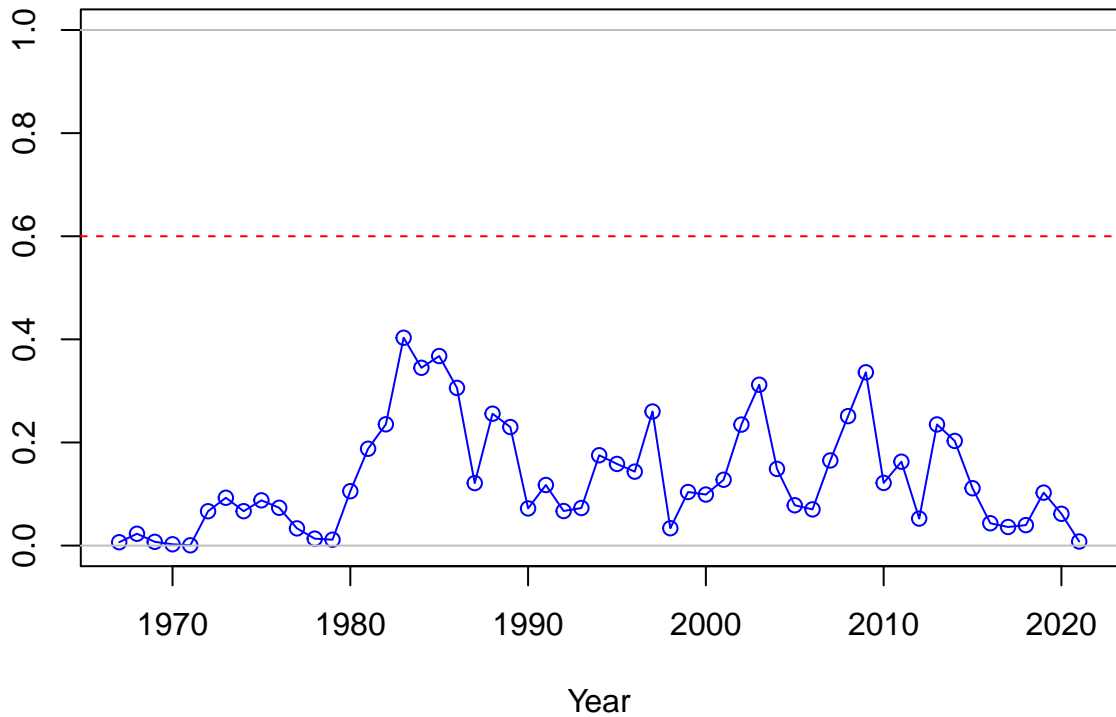




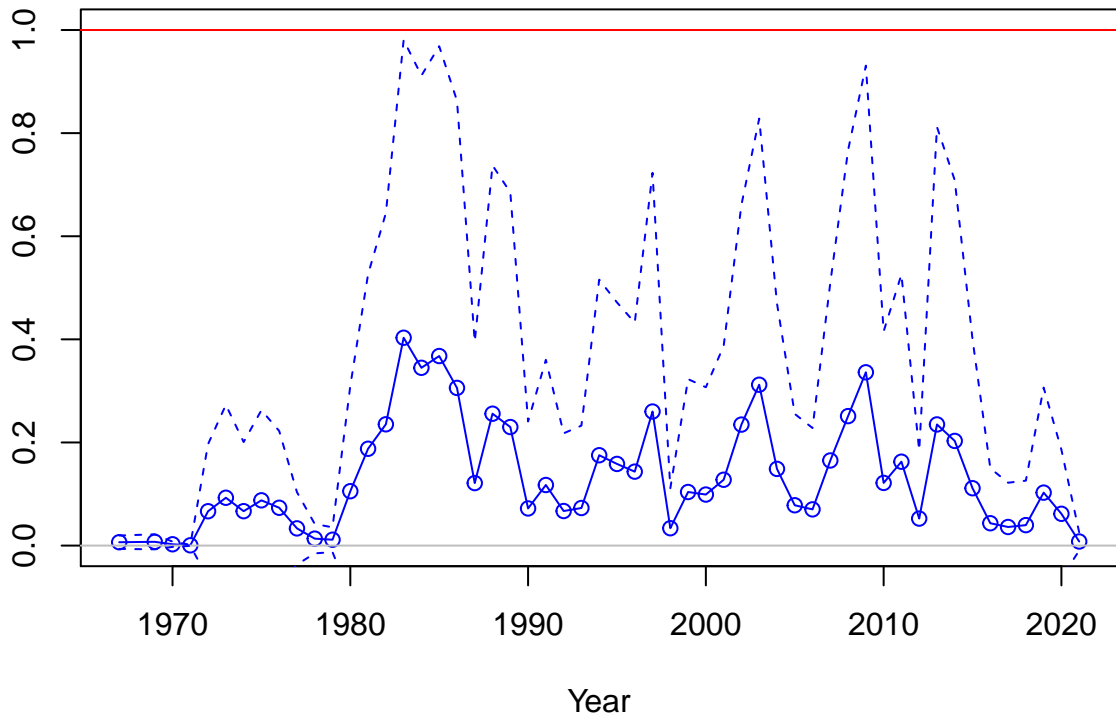
SPR



1-SPR

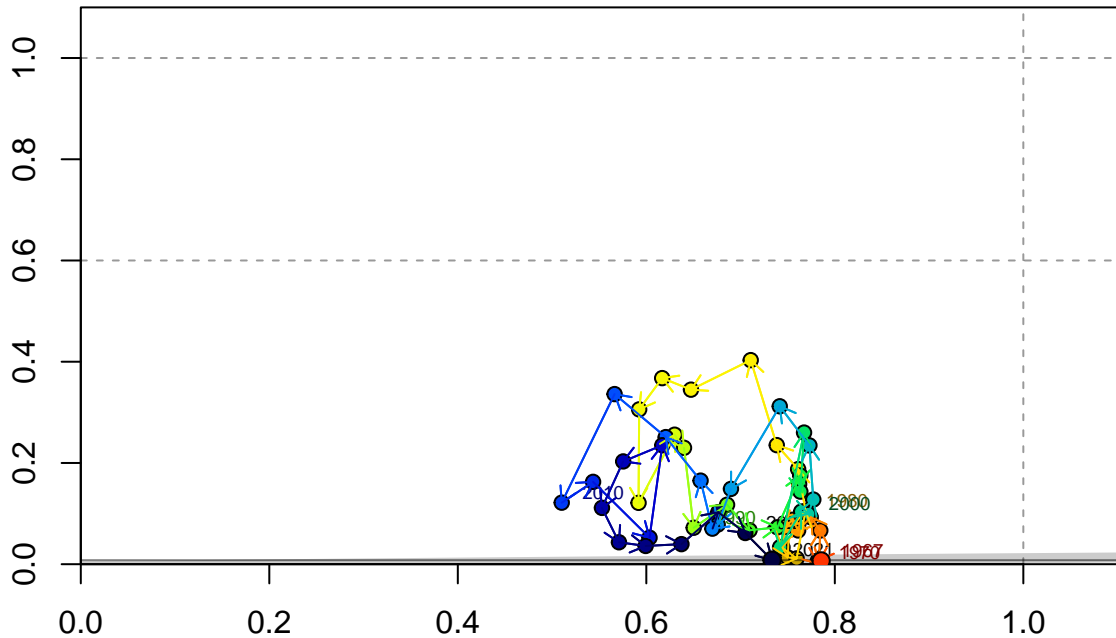


Fishing intensity: 1-SPR

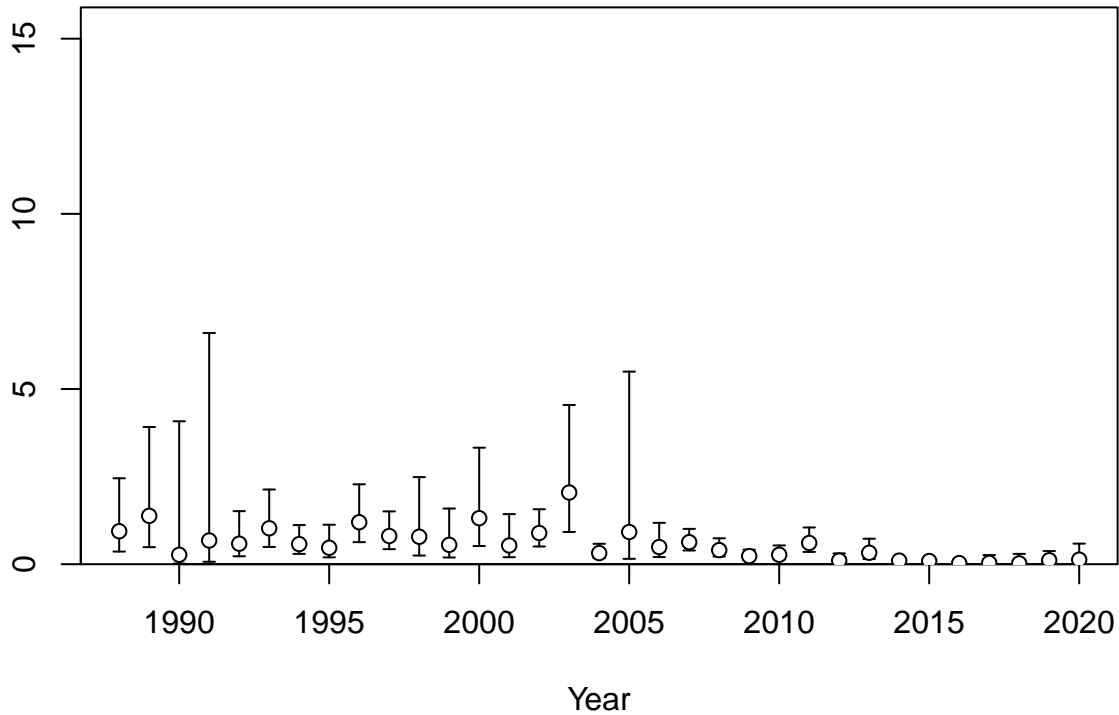


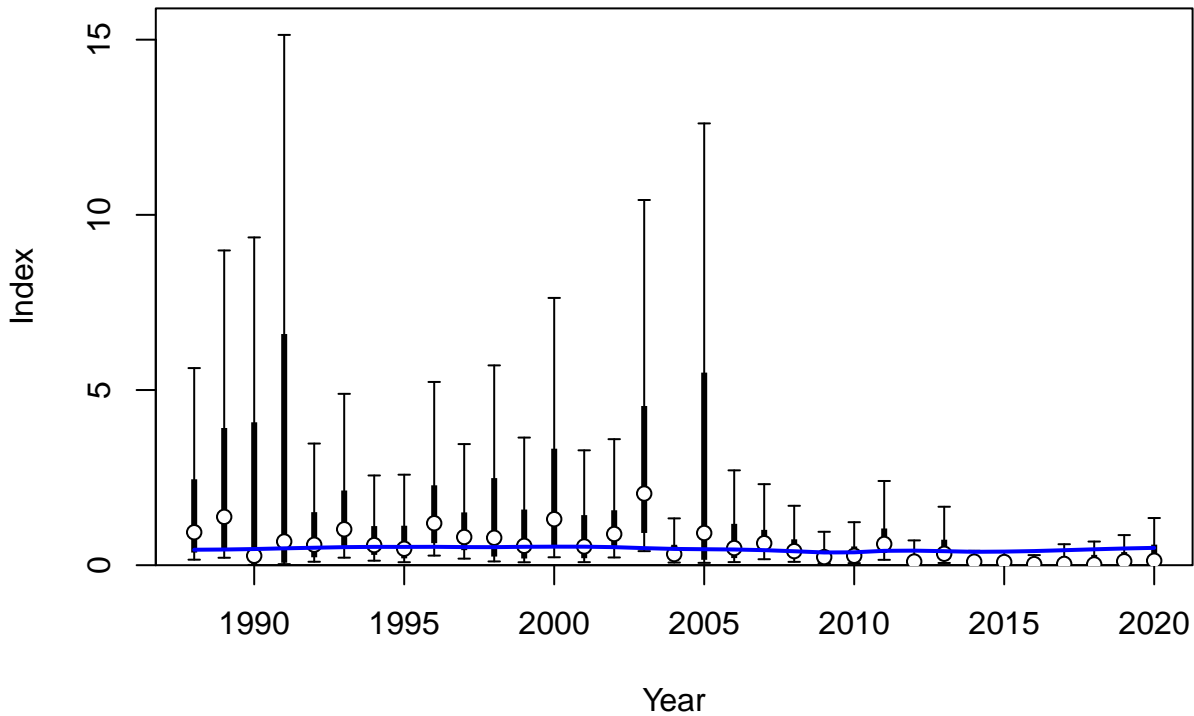


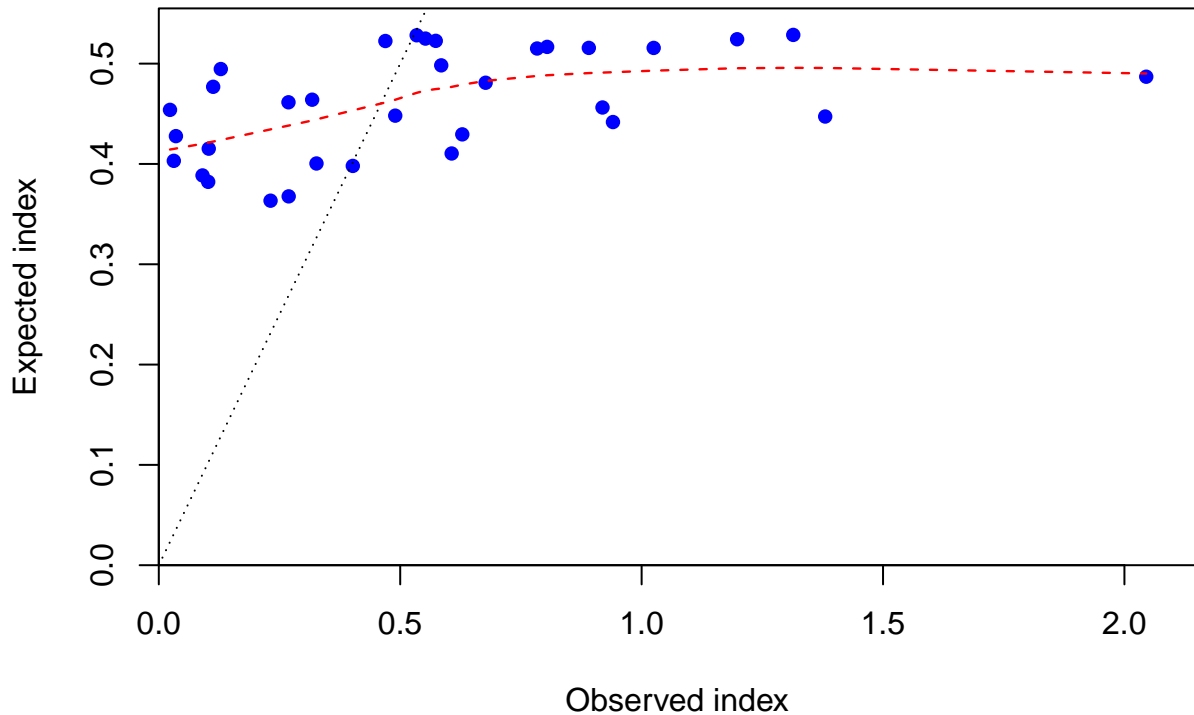
Fishing intensity: 1-SPR

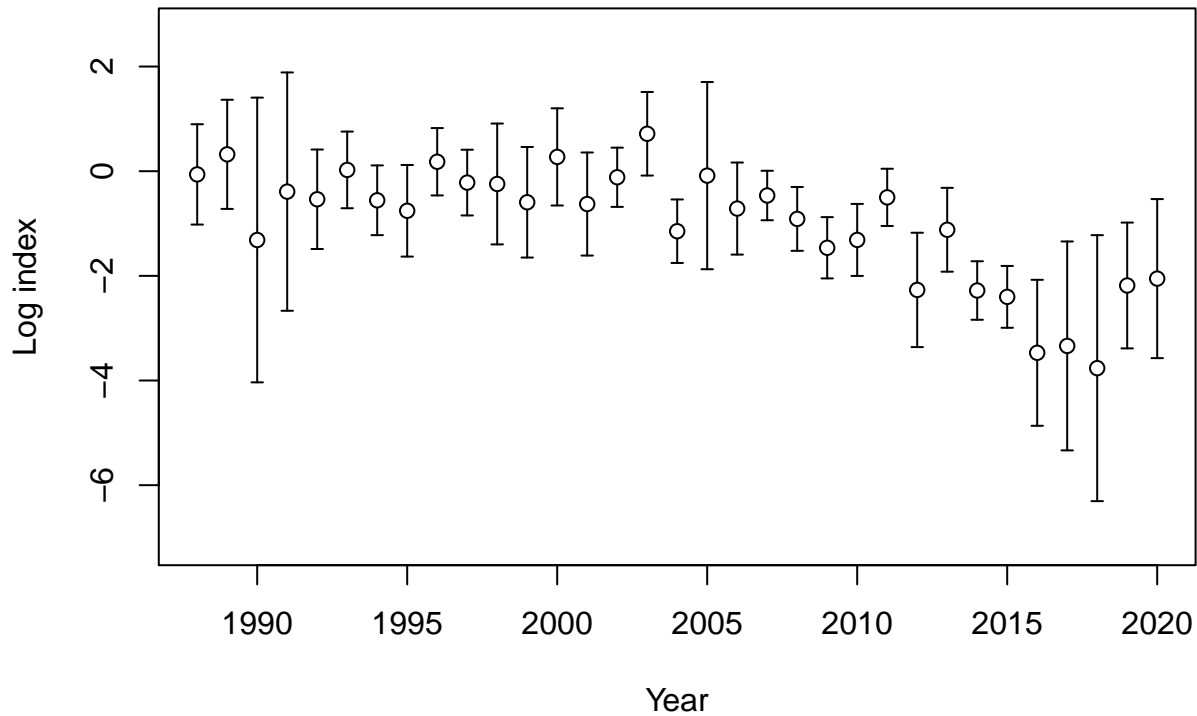


Index

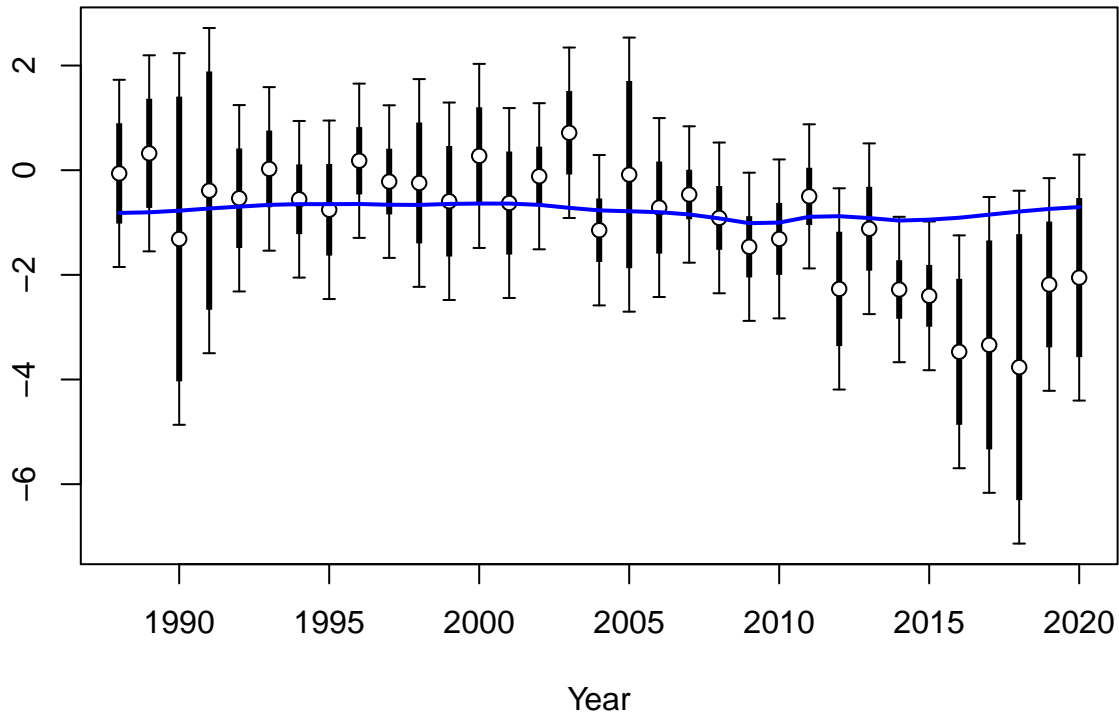


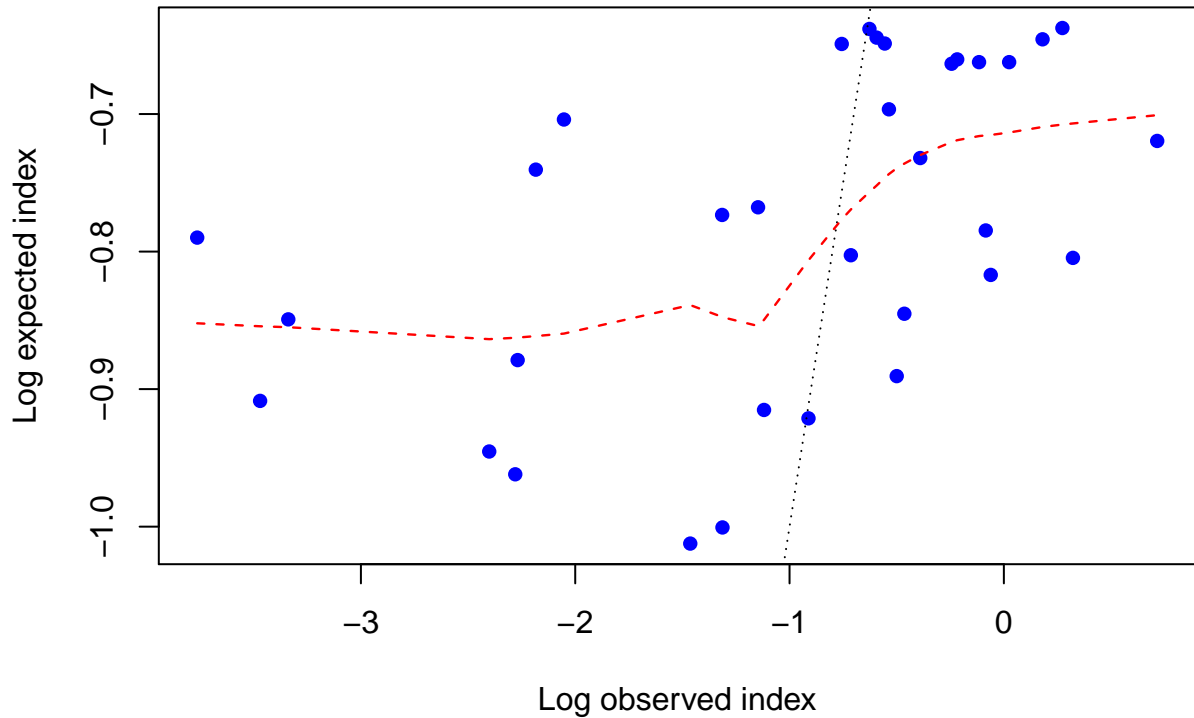


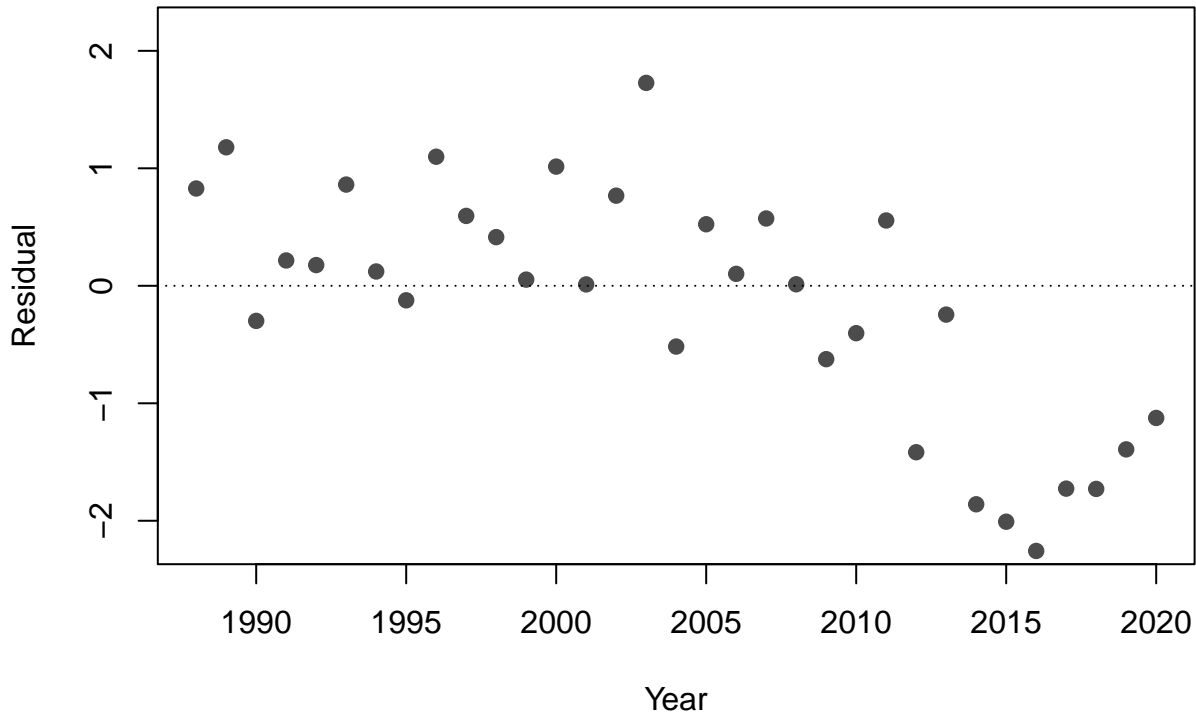




Log index

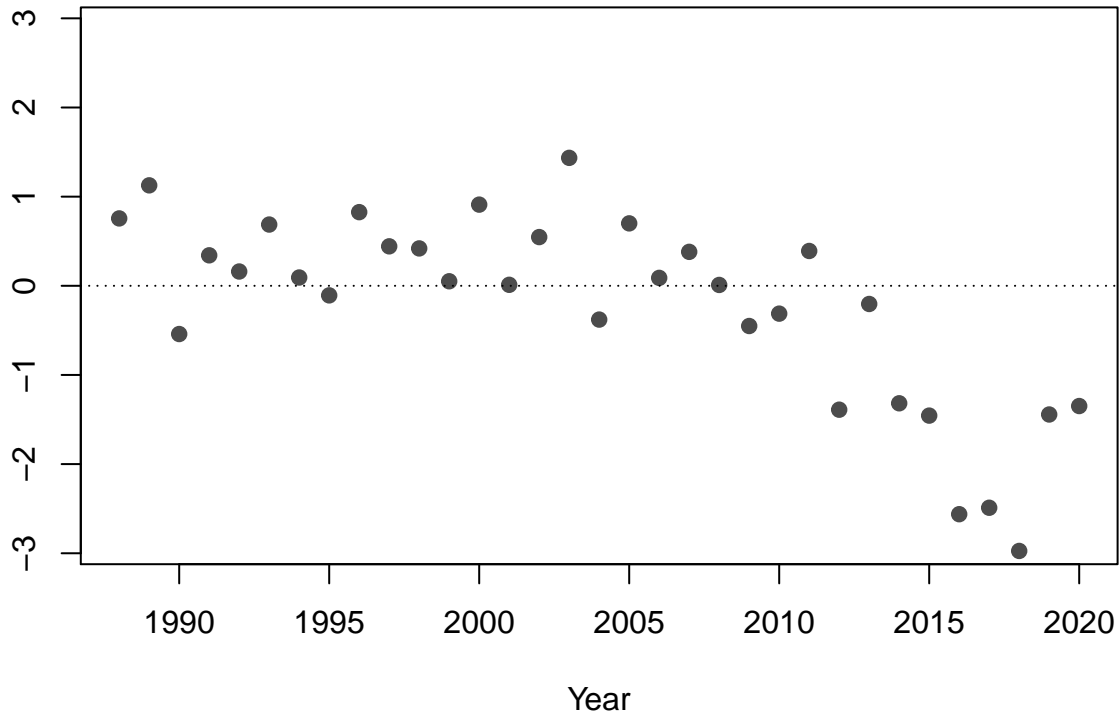


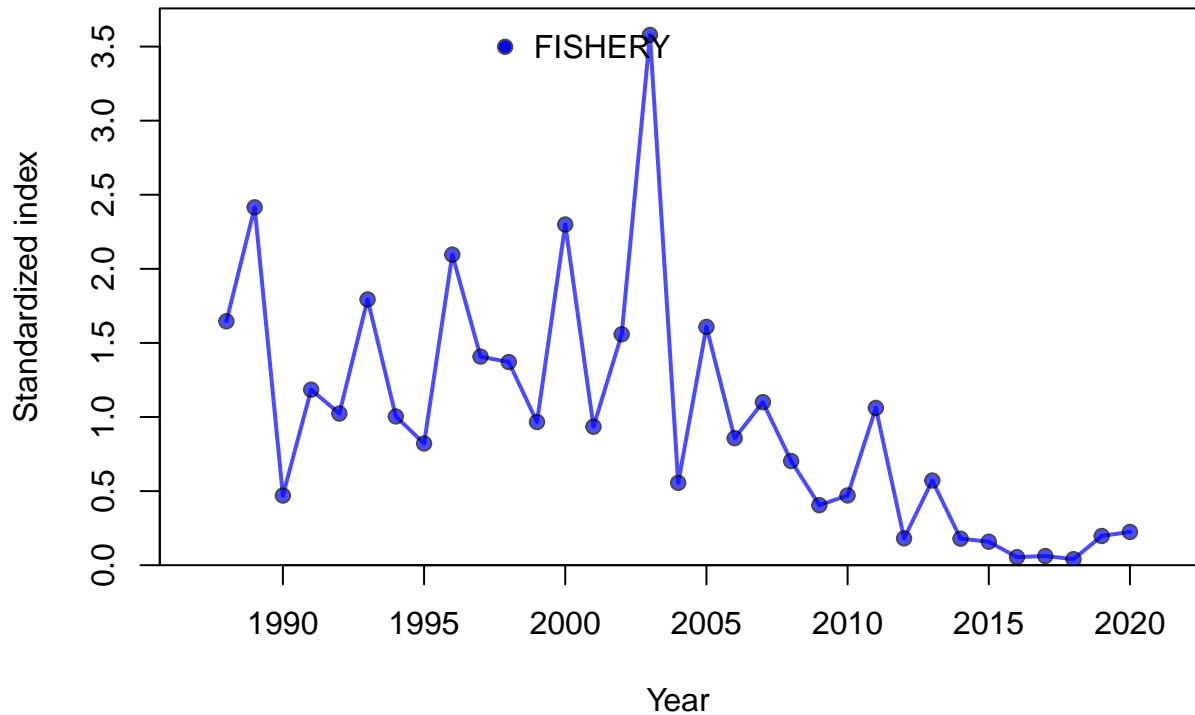


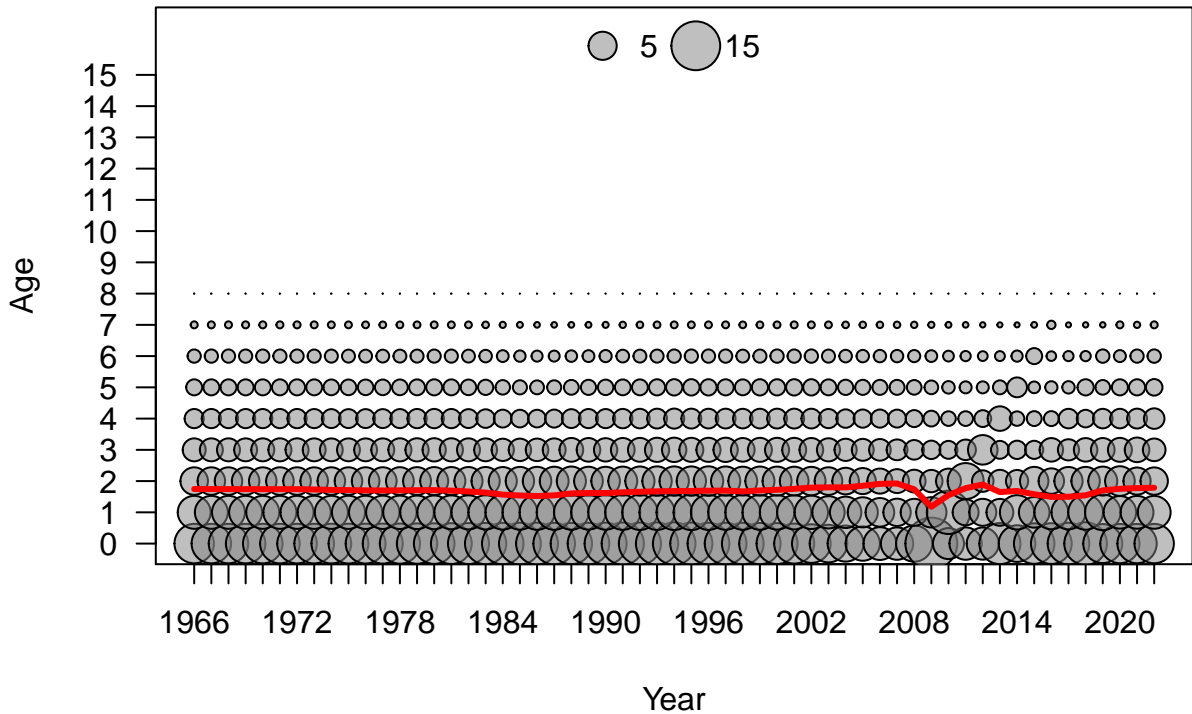


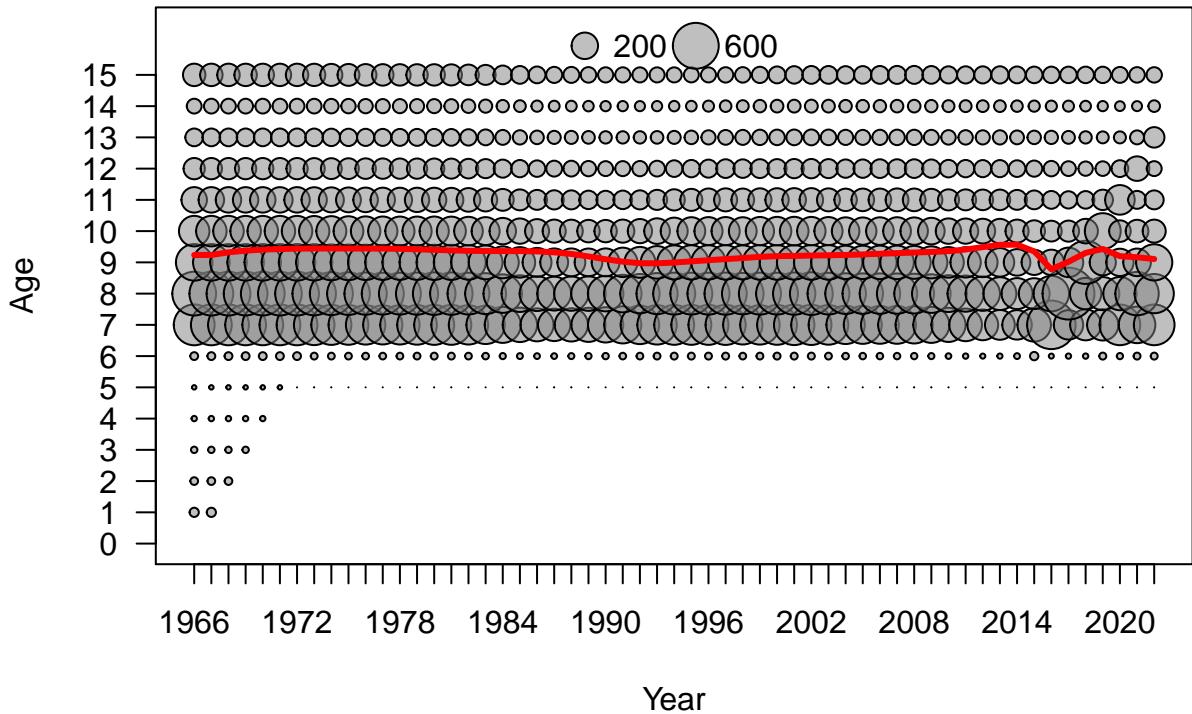


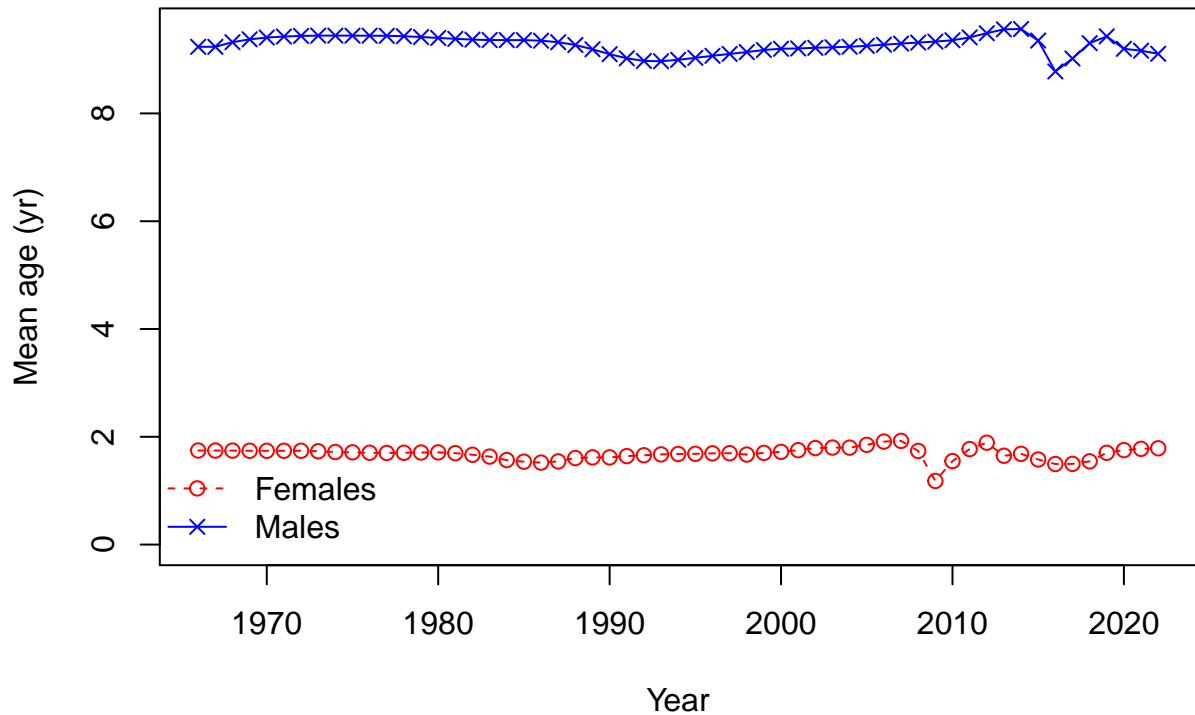
Deviation



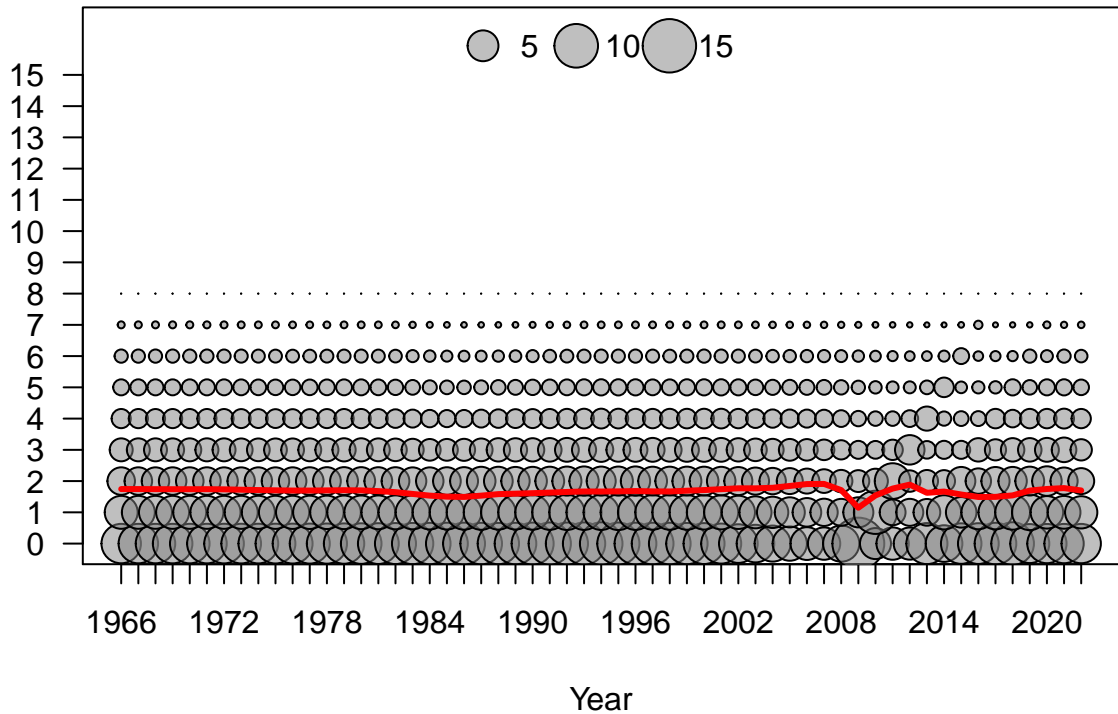




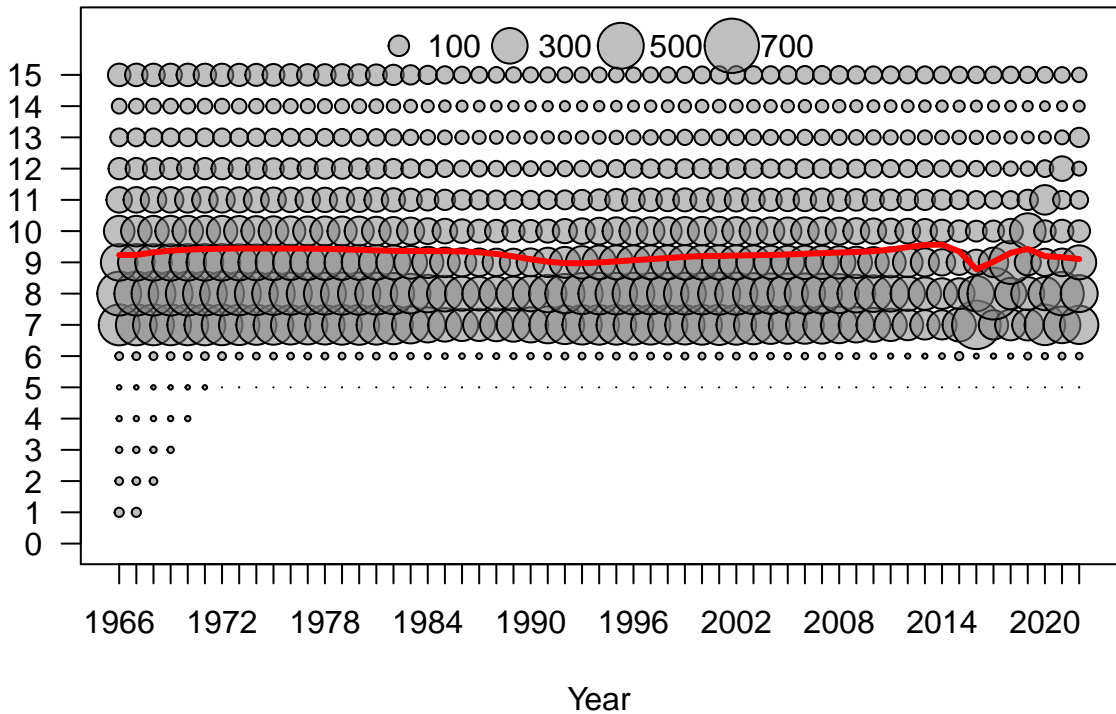


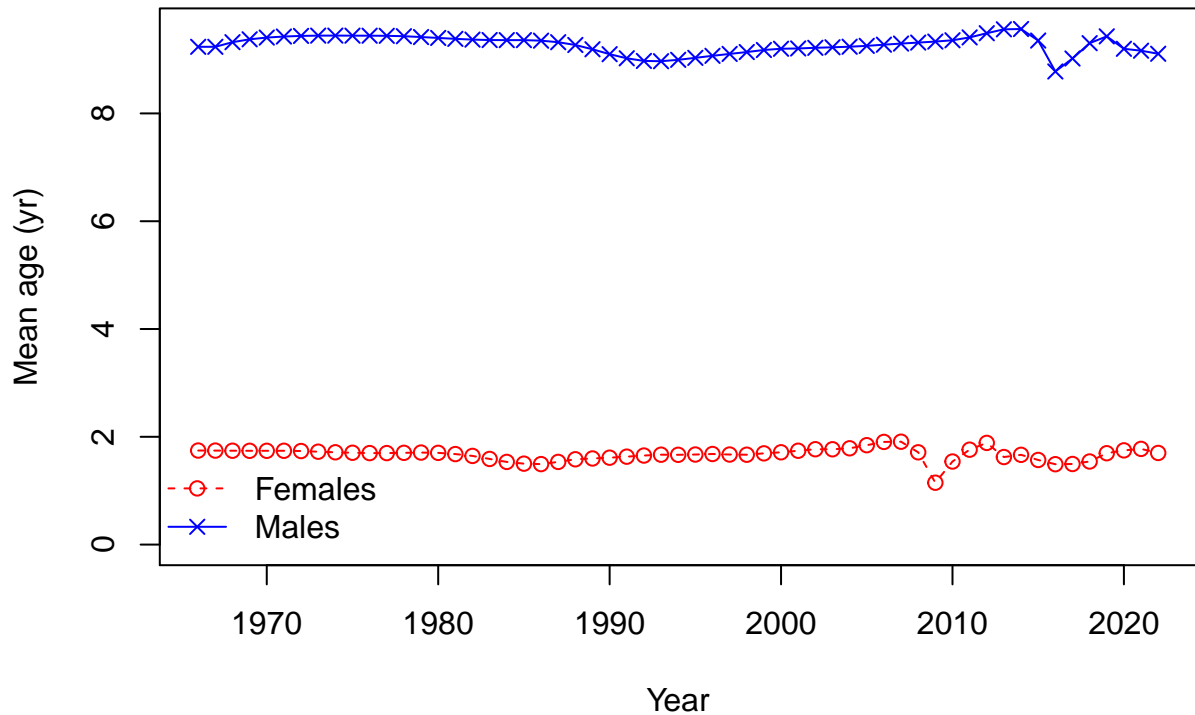


Age



Age







Age

14  
12  
10  
8  
6  
4  
2  
0

1970

1980

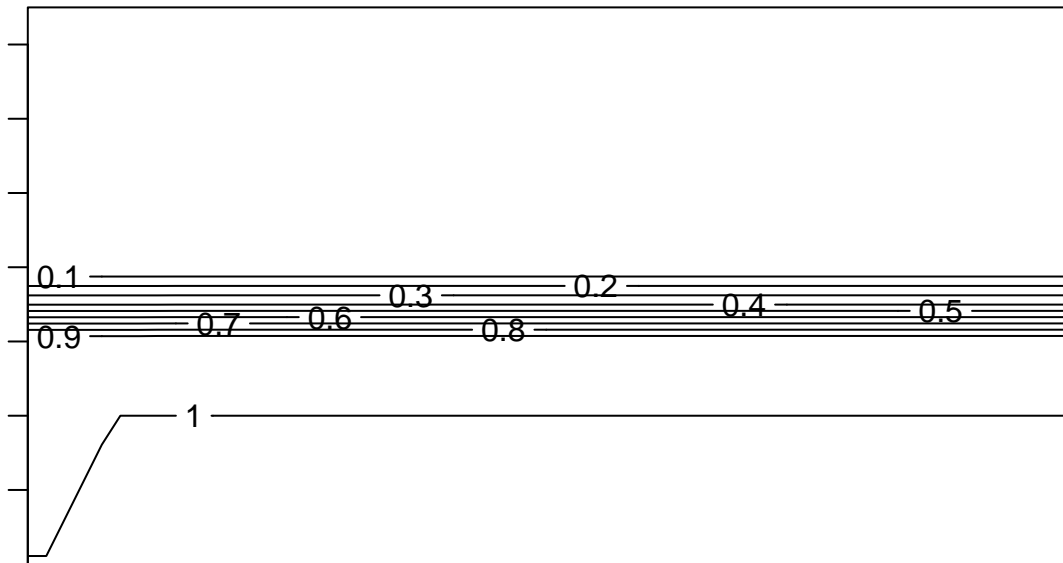
1990

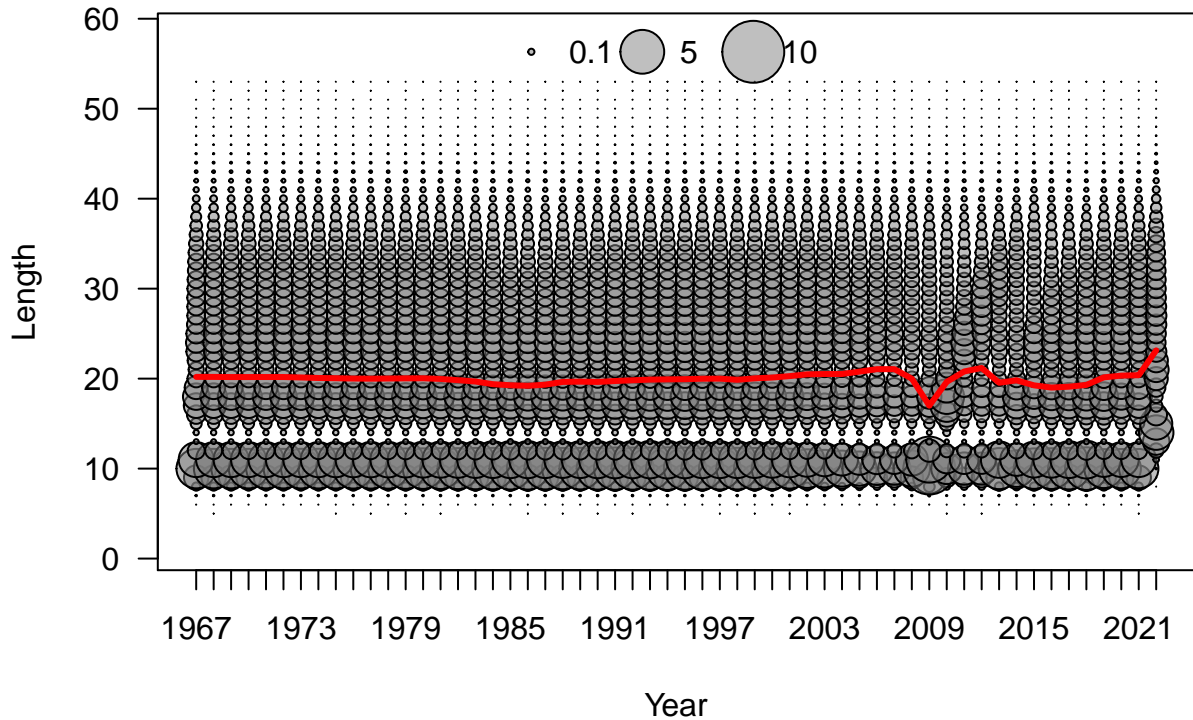
2000

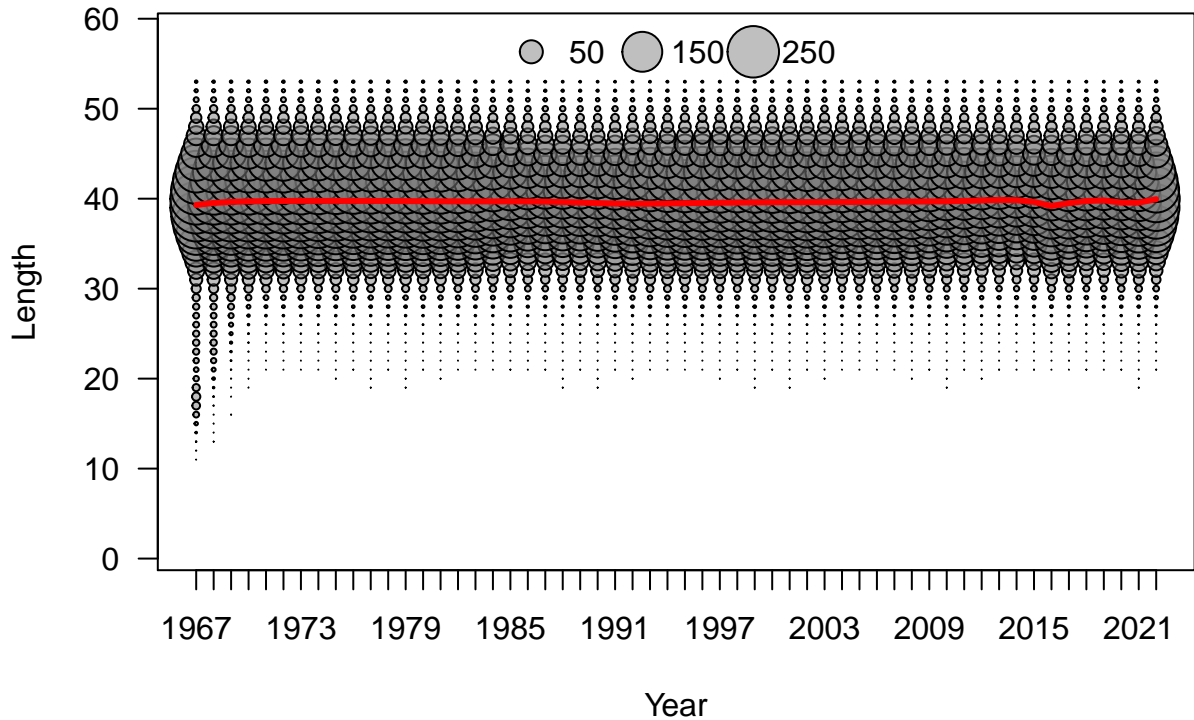
2010

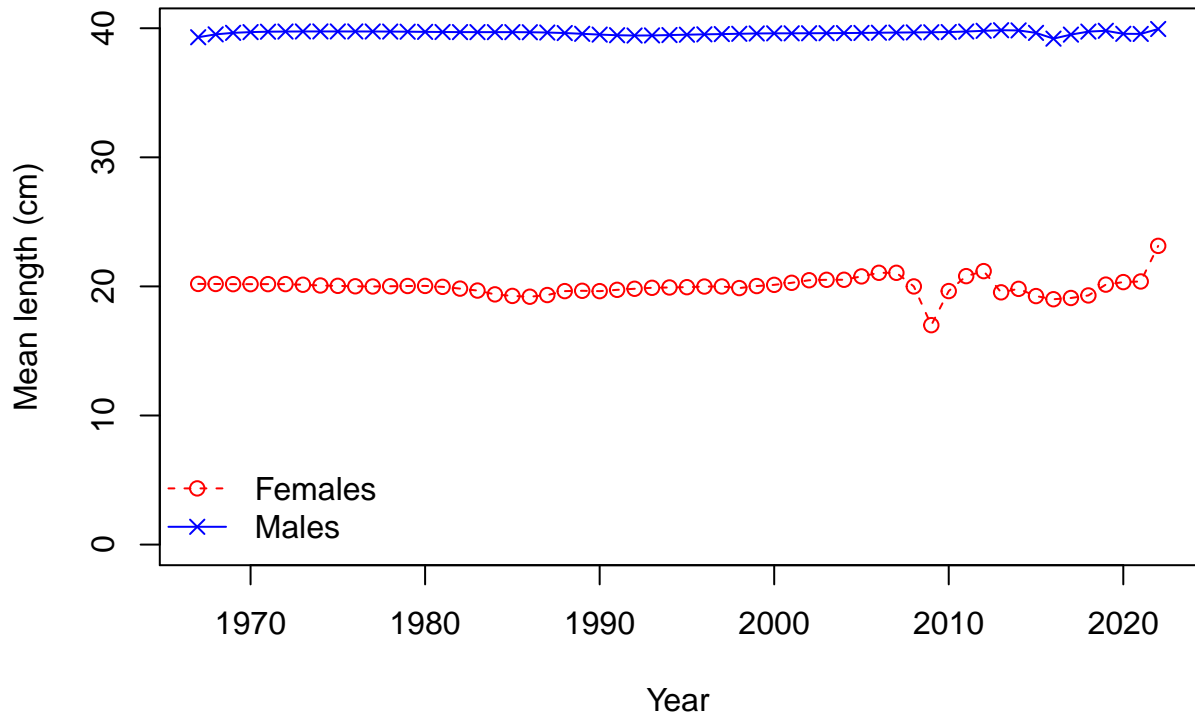
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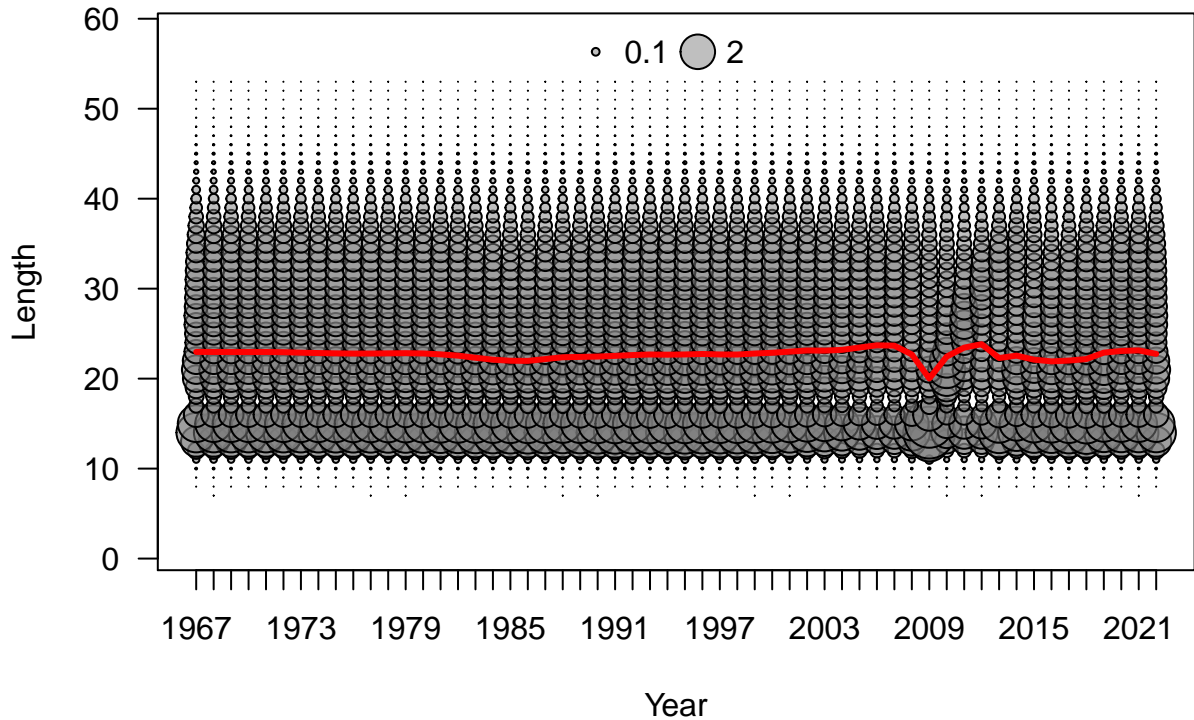
Year

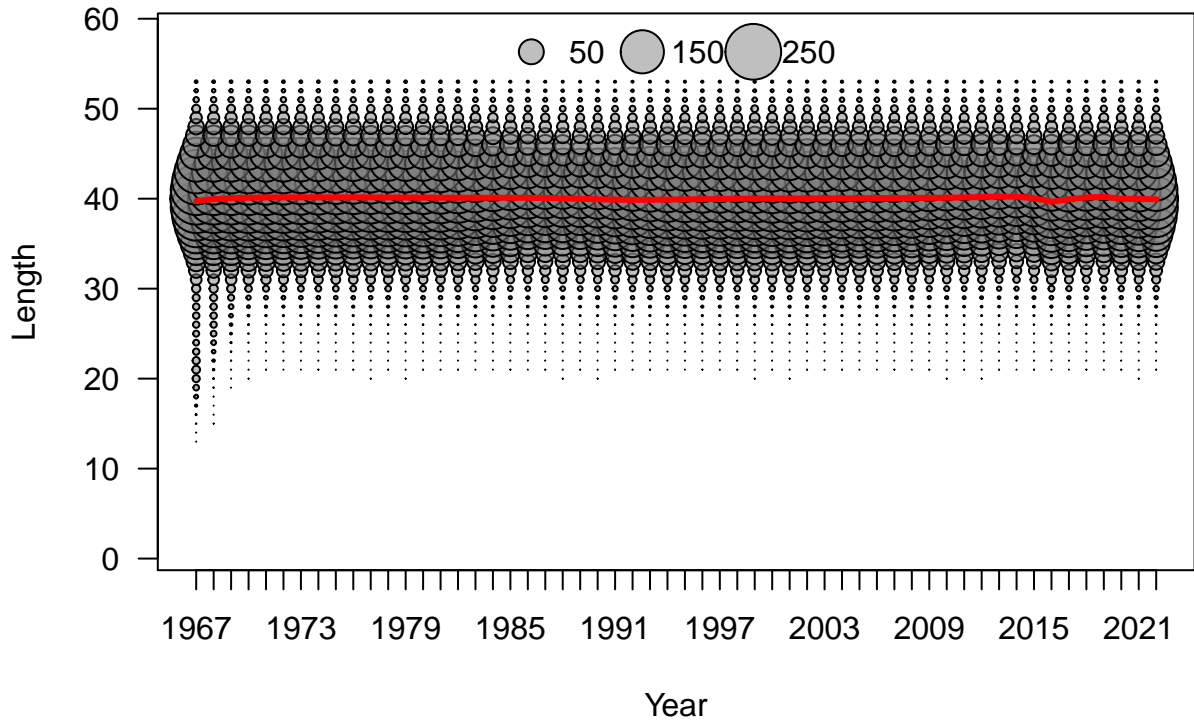


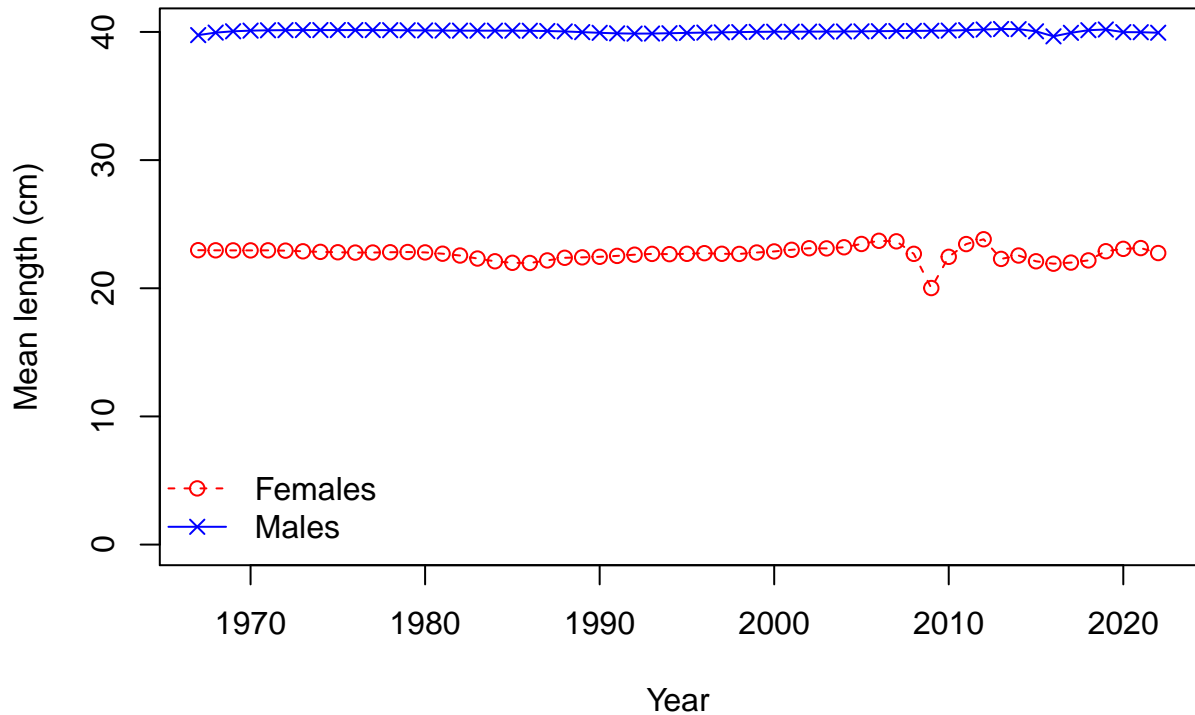




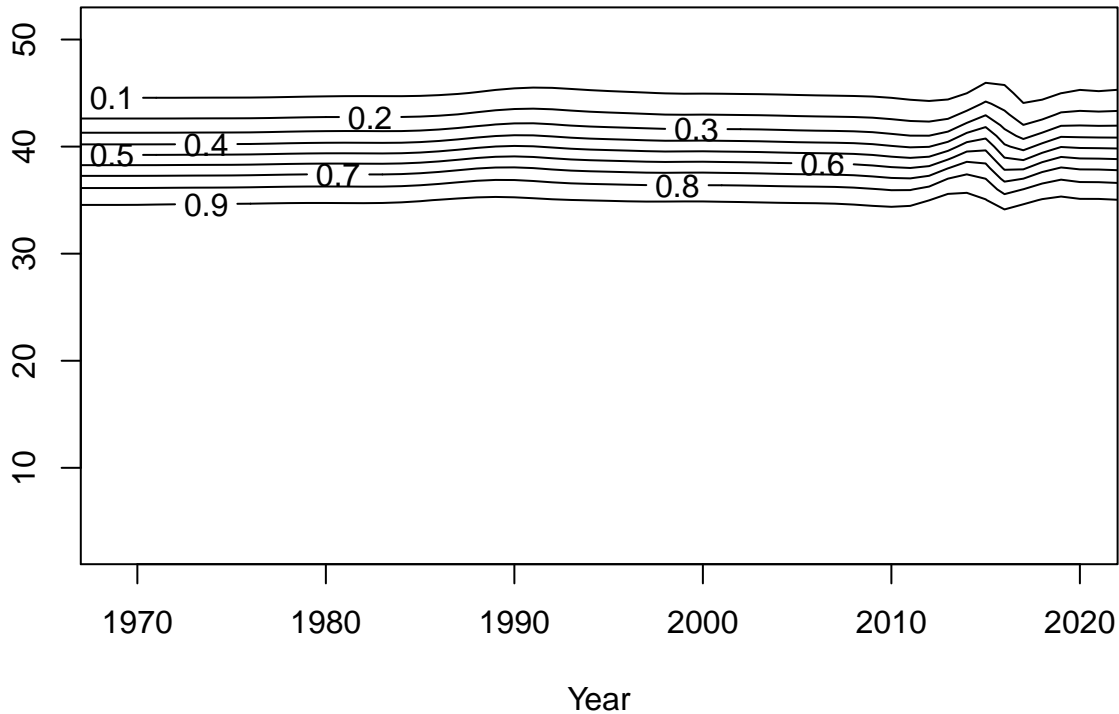




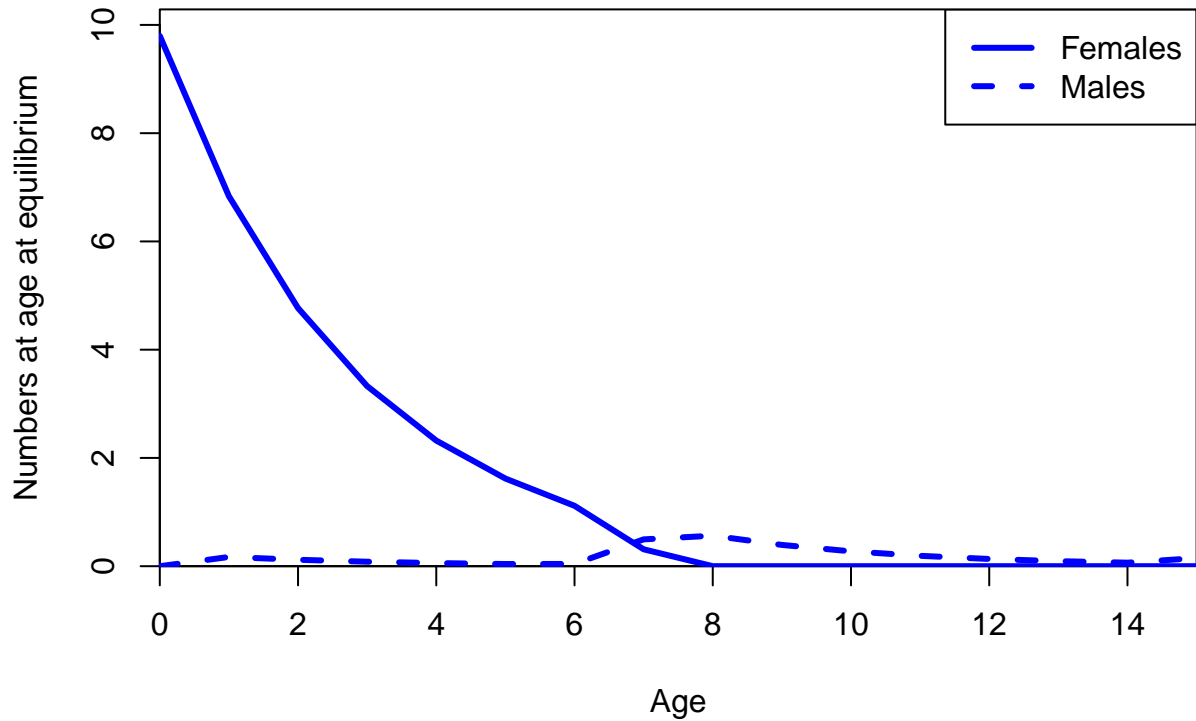




Length

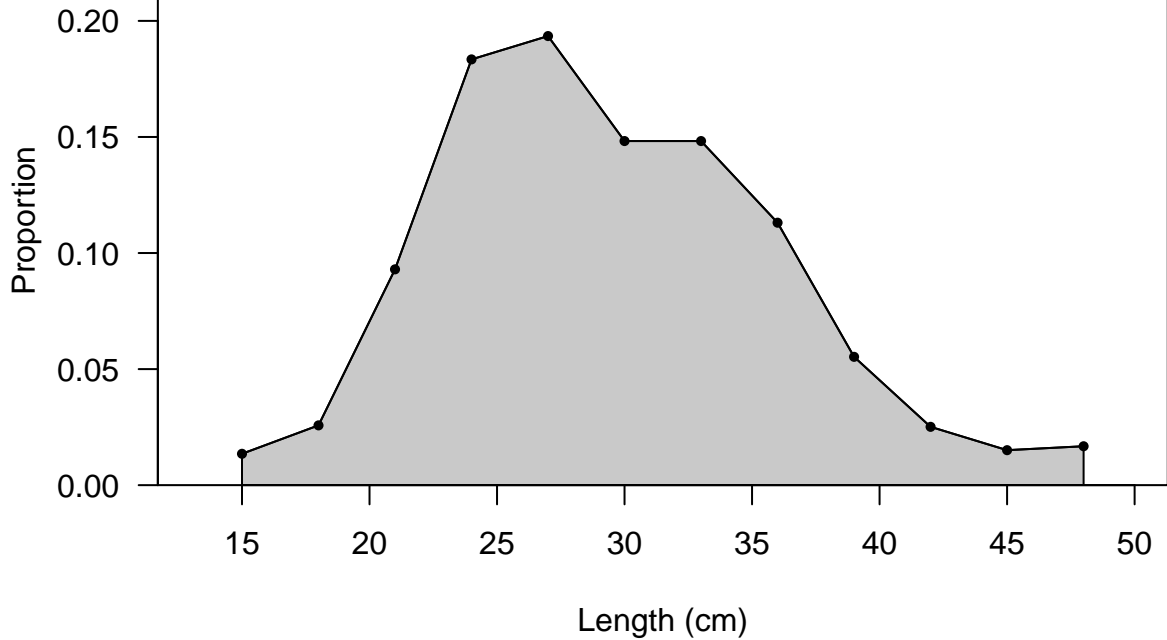


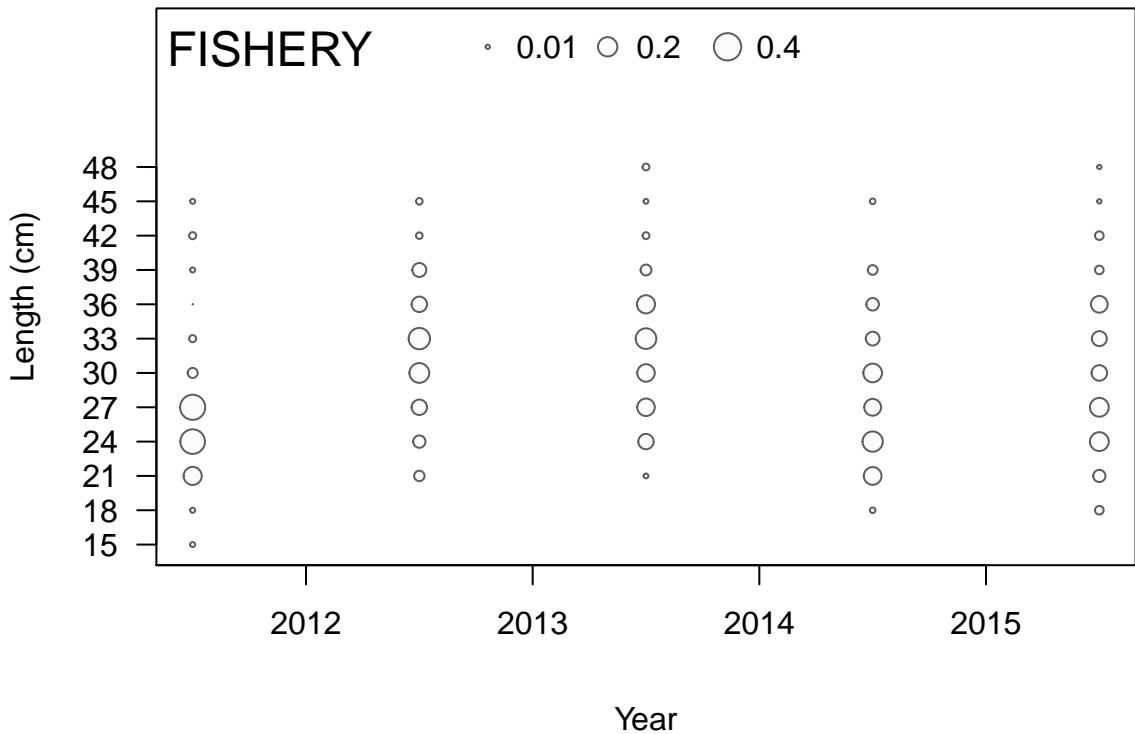




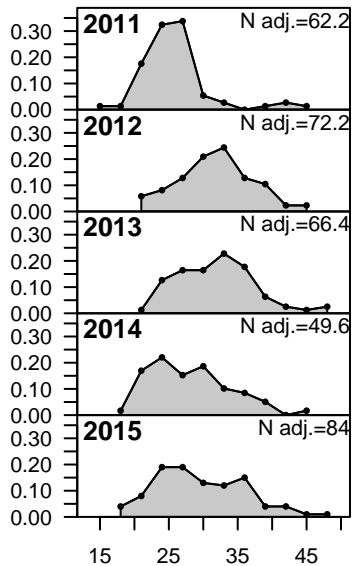
**FISHERY**

Sum of N adj.=334.3

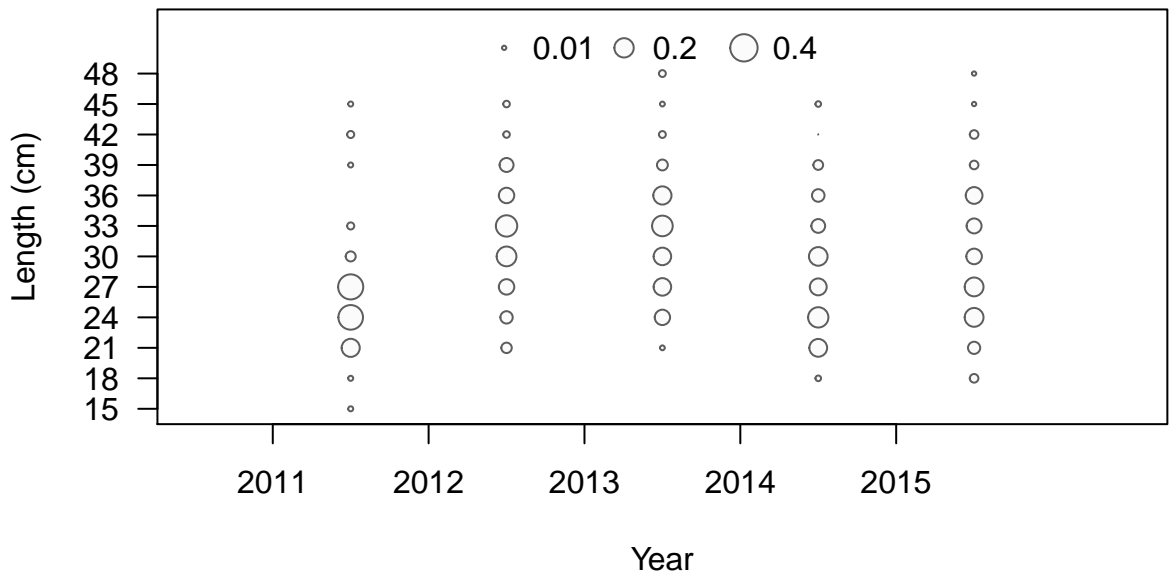




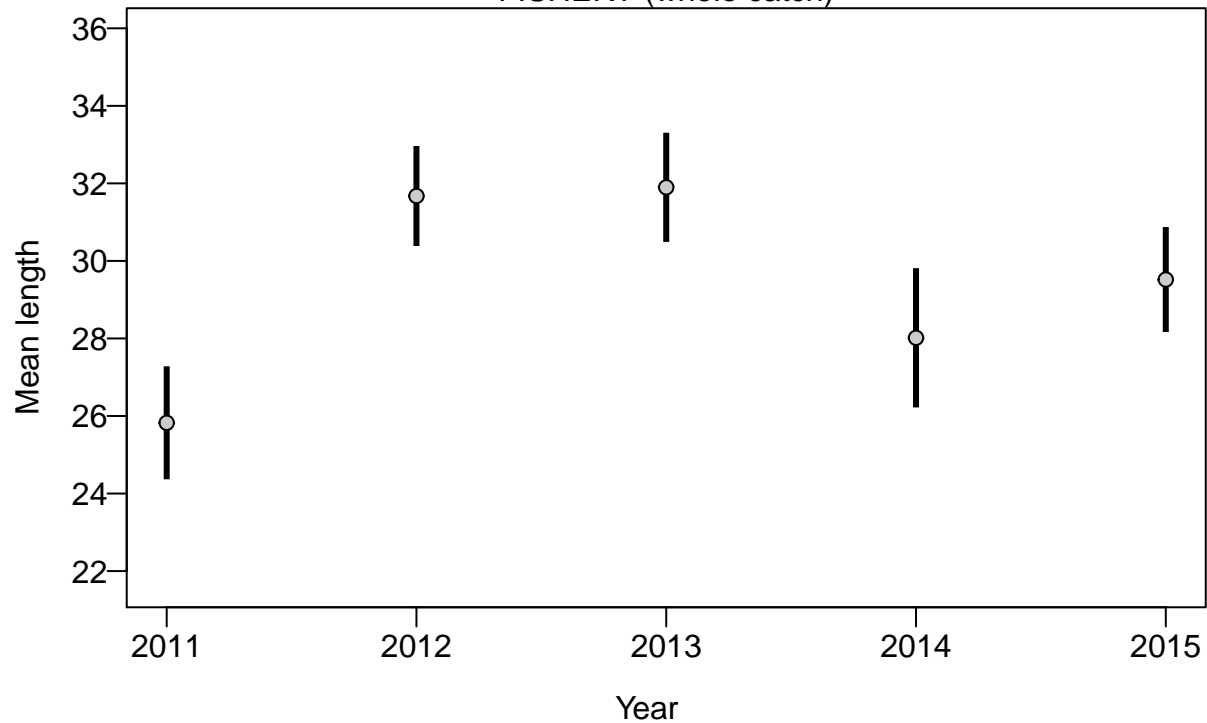
Proportion



Length (cm)

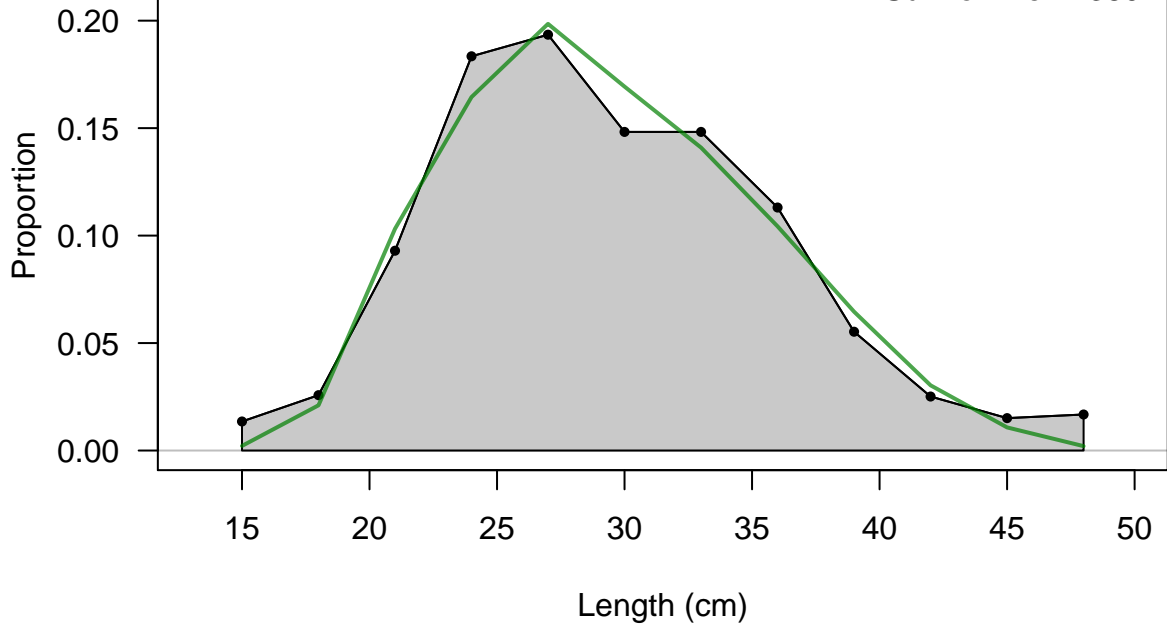


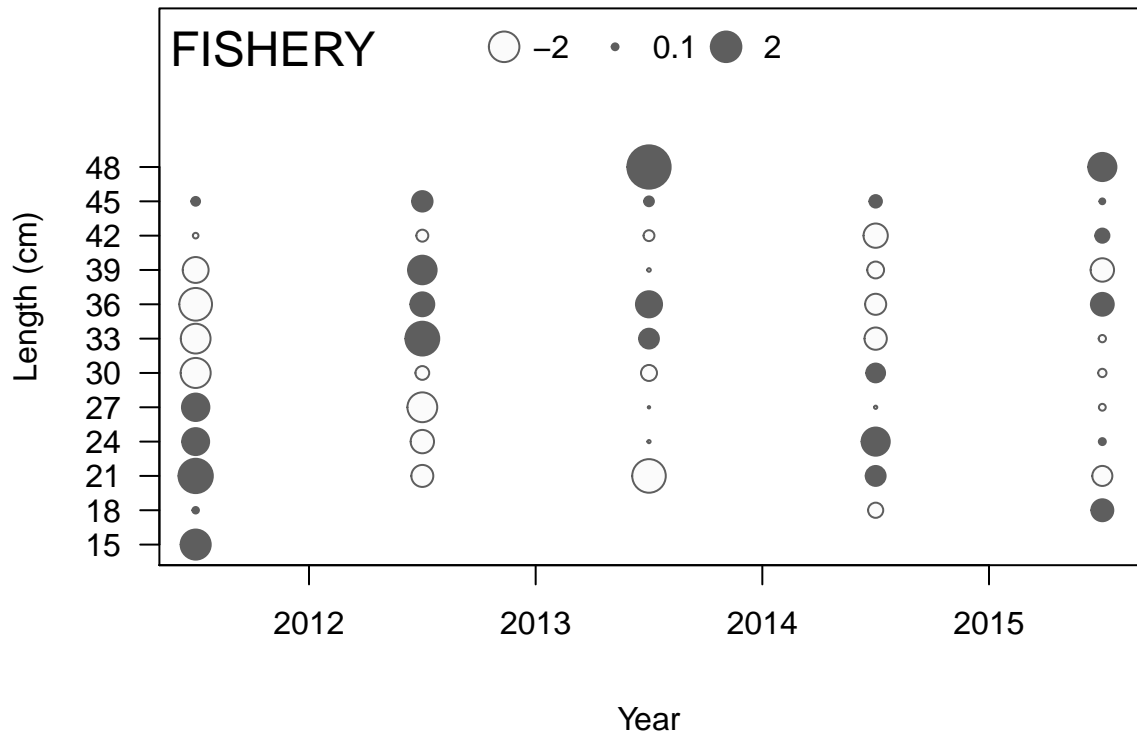
FISHERY (whole catch)



# FISHERY

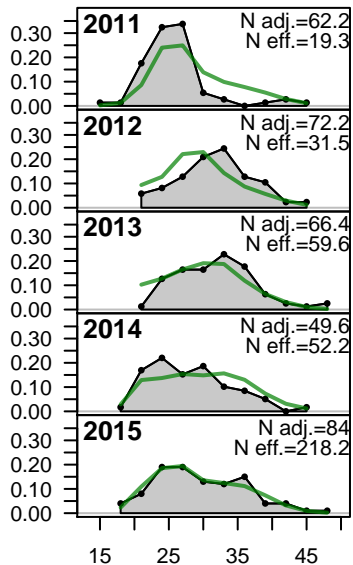
Sum of N adj.=334.3  
Sum of N eff.=380.7



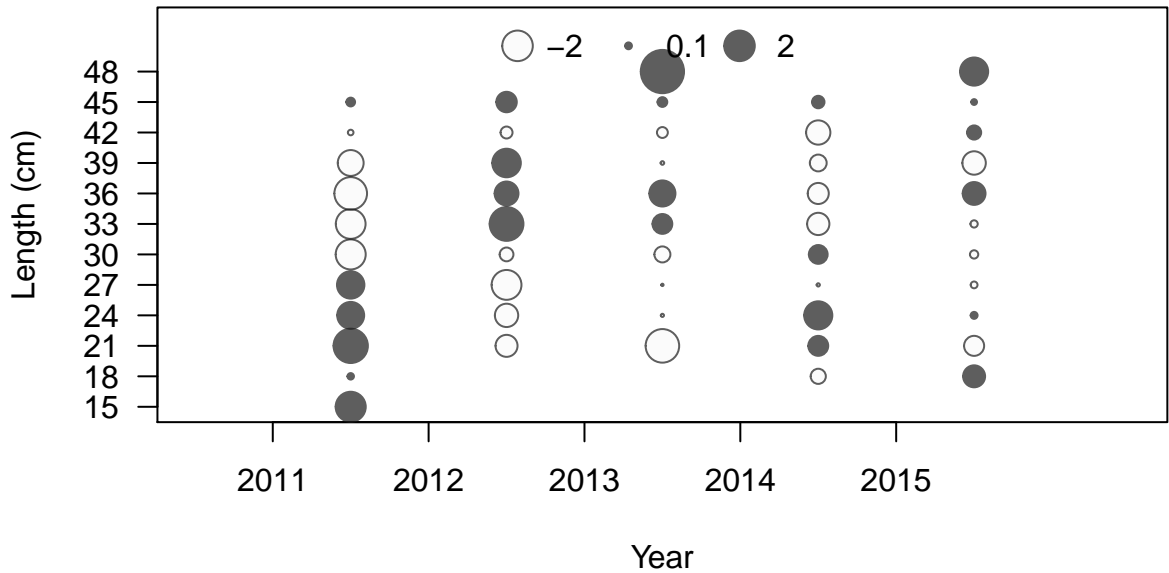


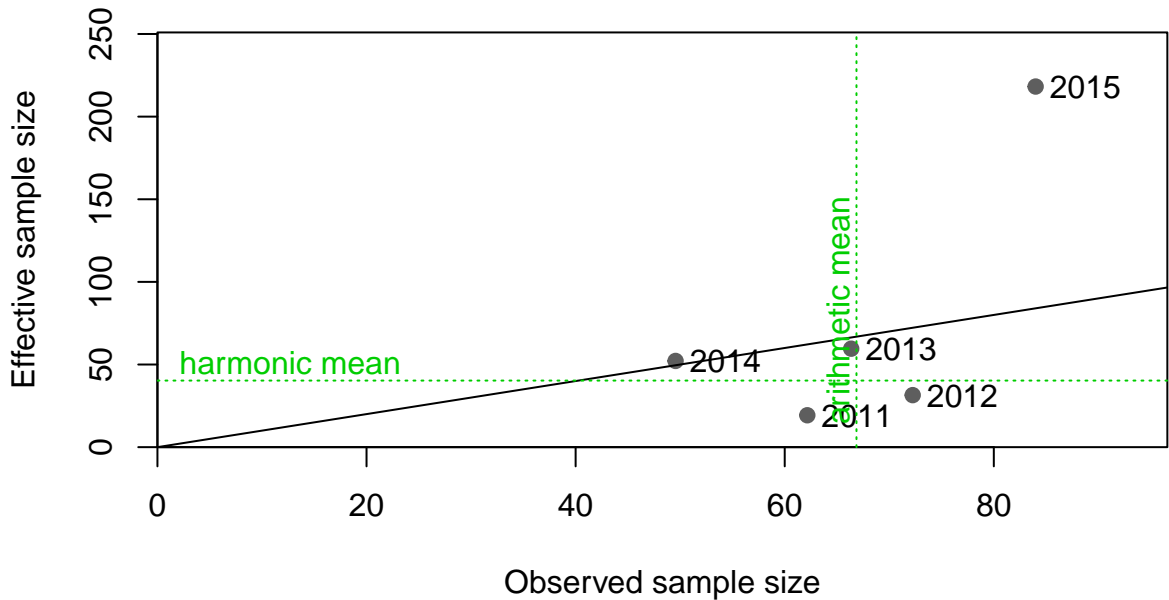


Proportion

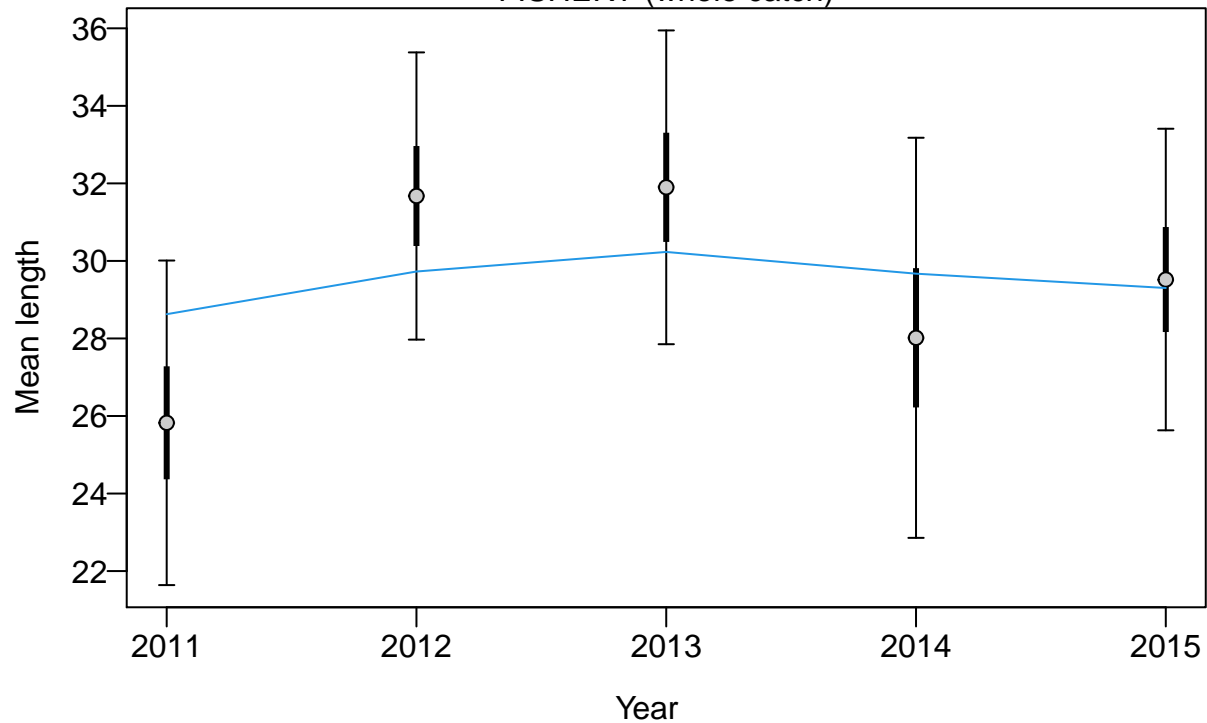


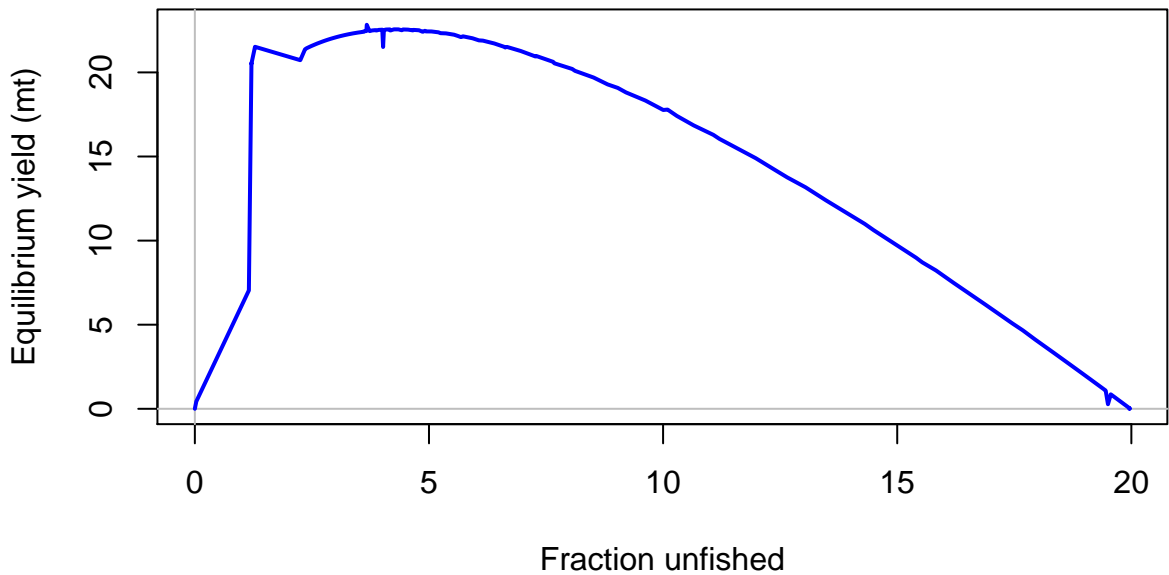
Length (cm)

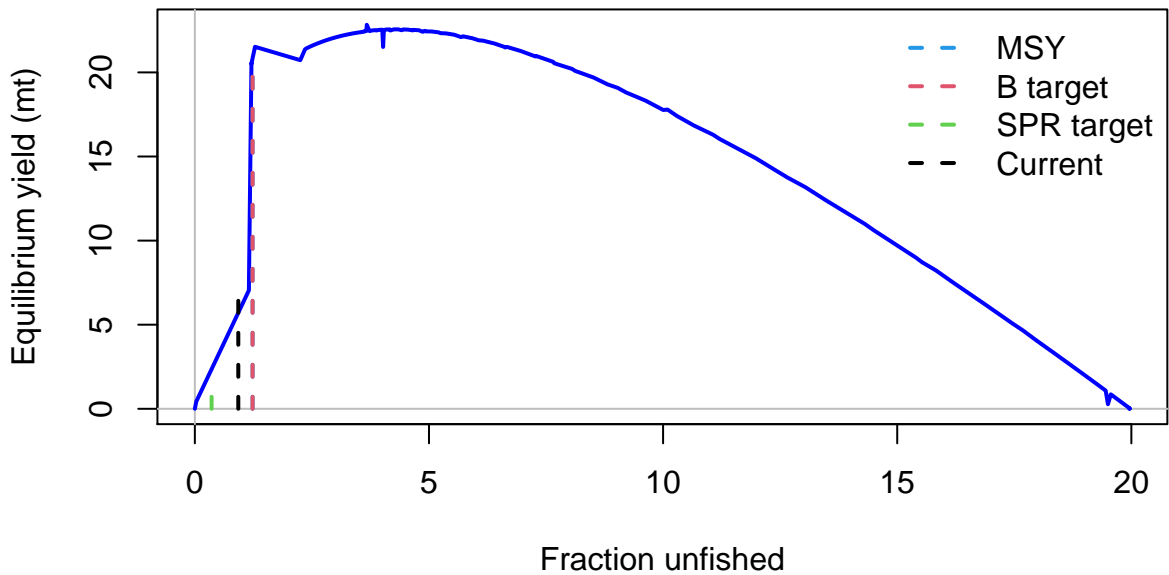


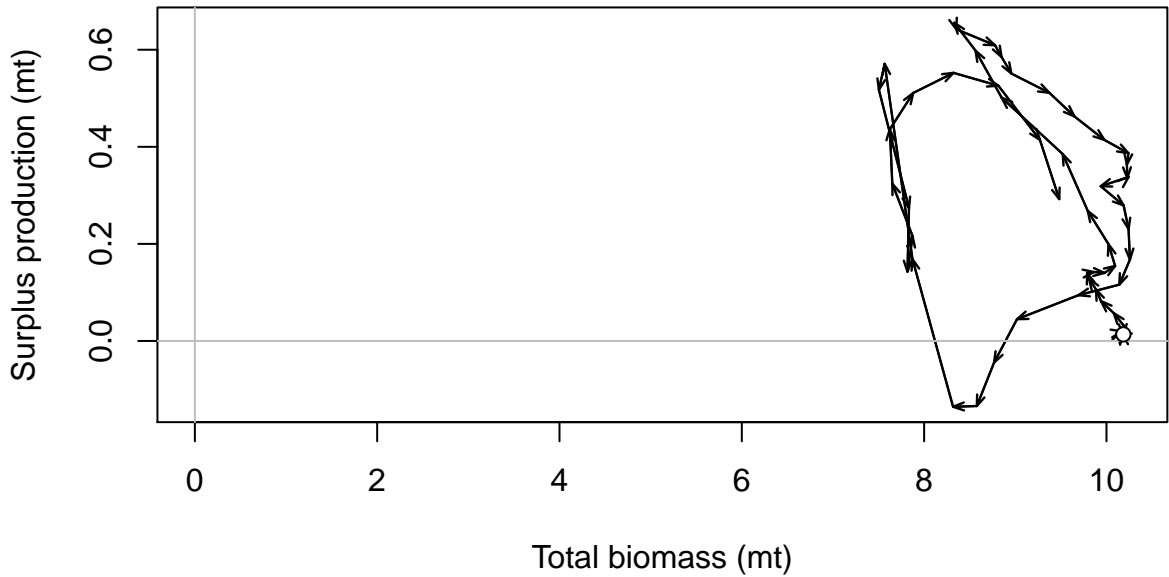


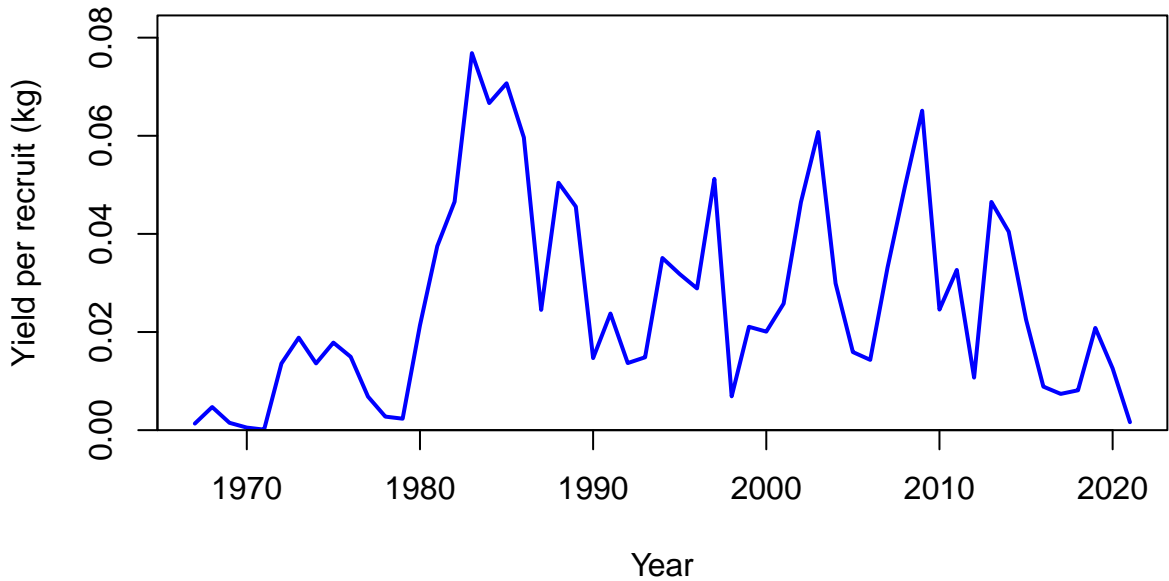
FISHERY (whole catch)



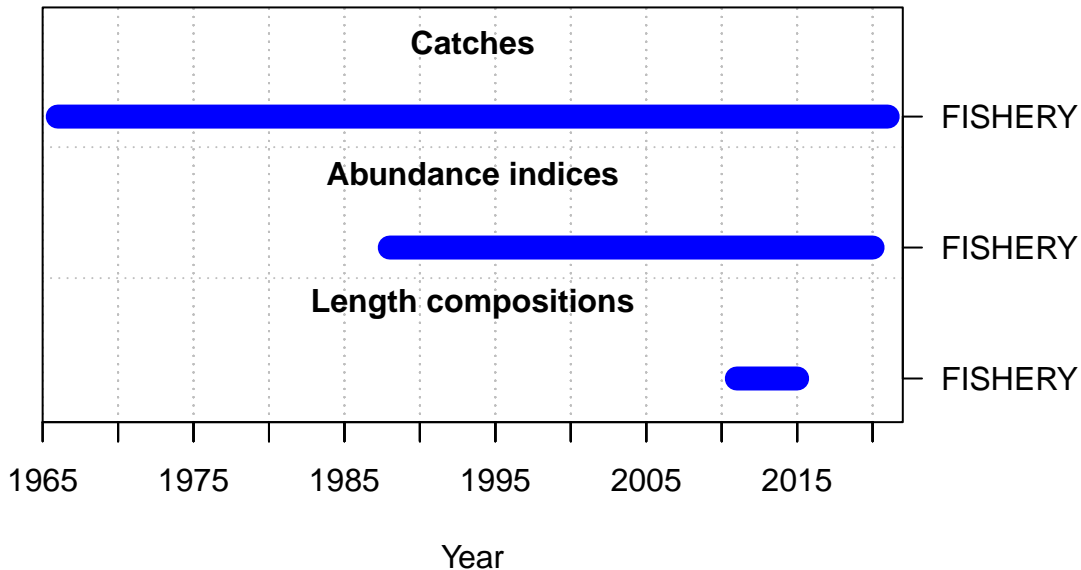


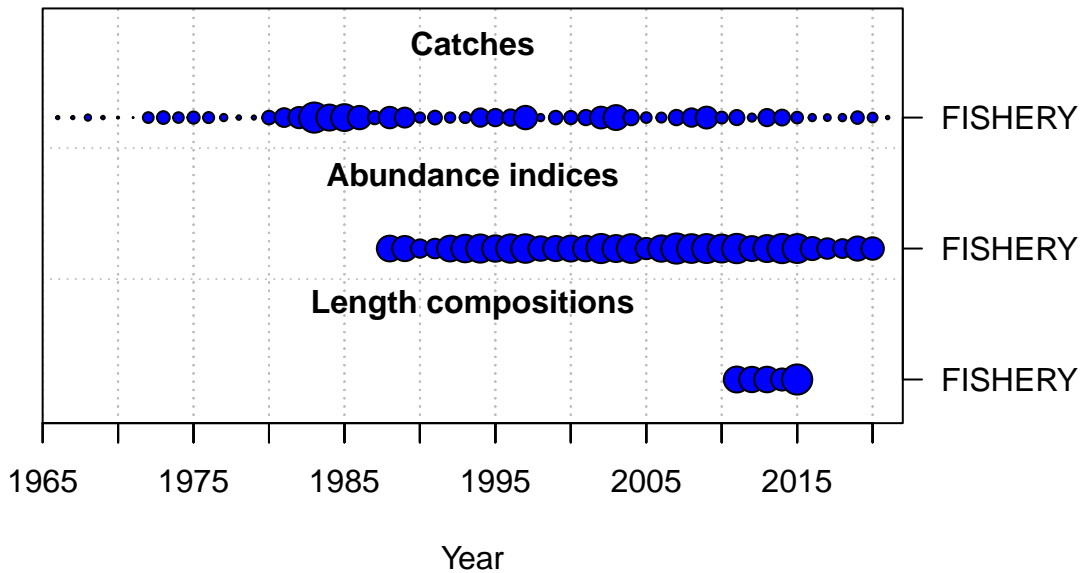




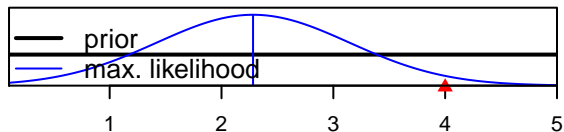




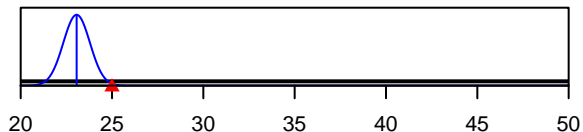




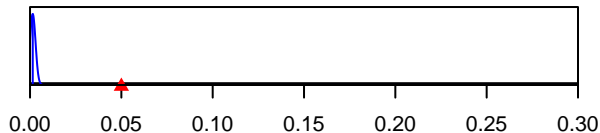
SR\_LN(R0)



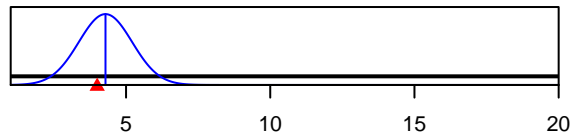
Size\_inflection\_FISHERY(1)



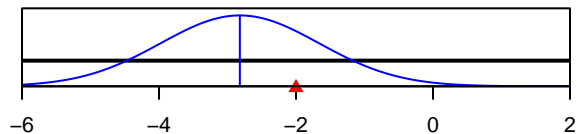
InitF\_seas\_1\_flt\_1FISHERY



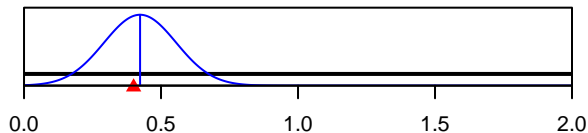
Size\_95%width\_FISHERY(1)



LnQ\_base\_FISHERY(1)



Q\_extraSD\_FISHERY(1)



Parameter value