

Plots created using the 'r4ss' package in R

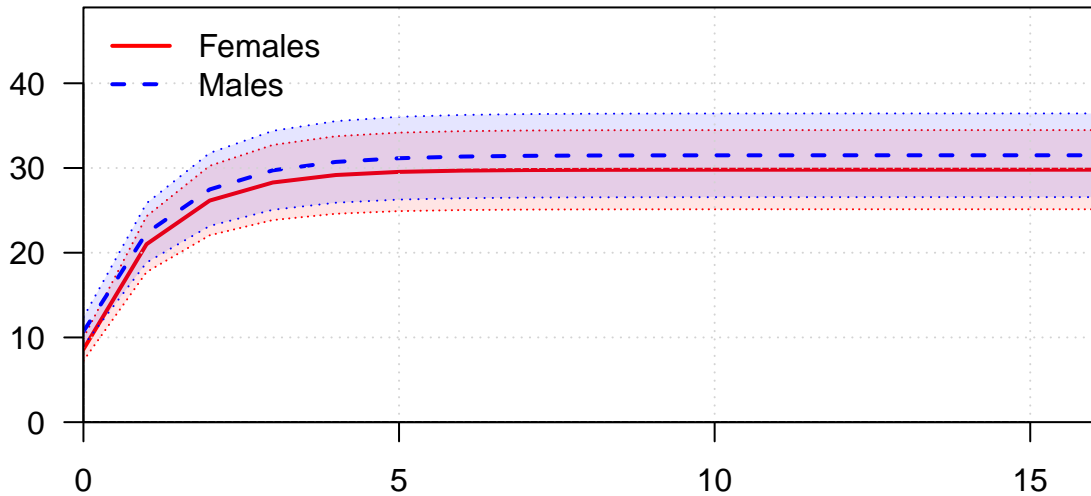
Stock Synthesis version: 3.30.19.0

StartTime: Thu Jul 28 13:06:34 2022

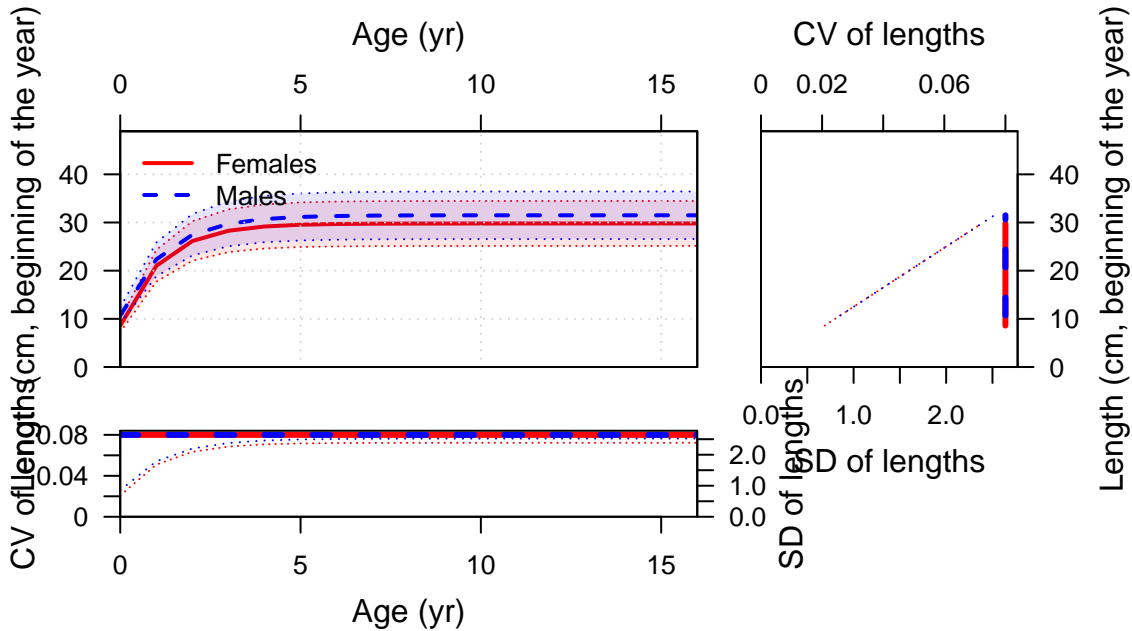
Data\_File: data.ss

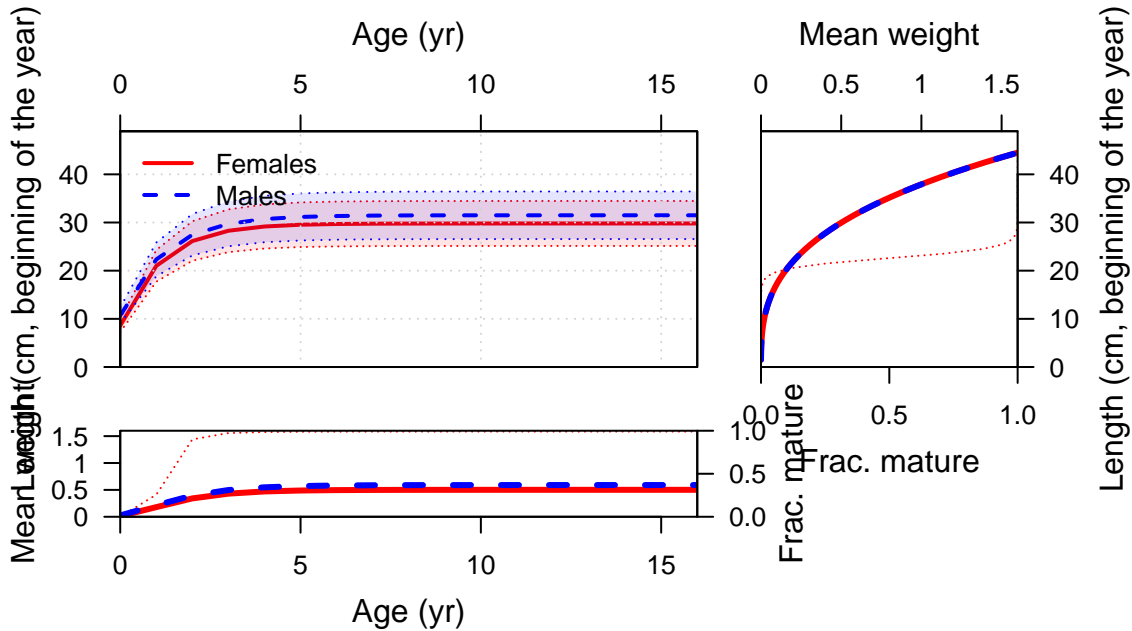
Control\_File: control.ss

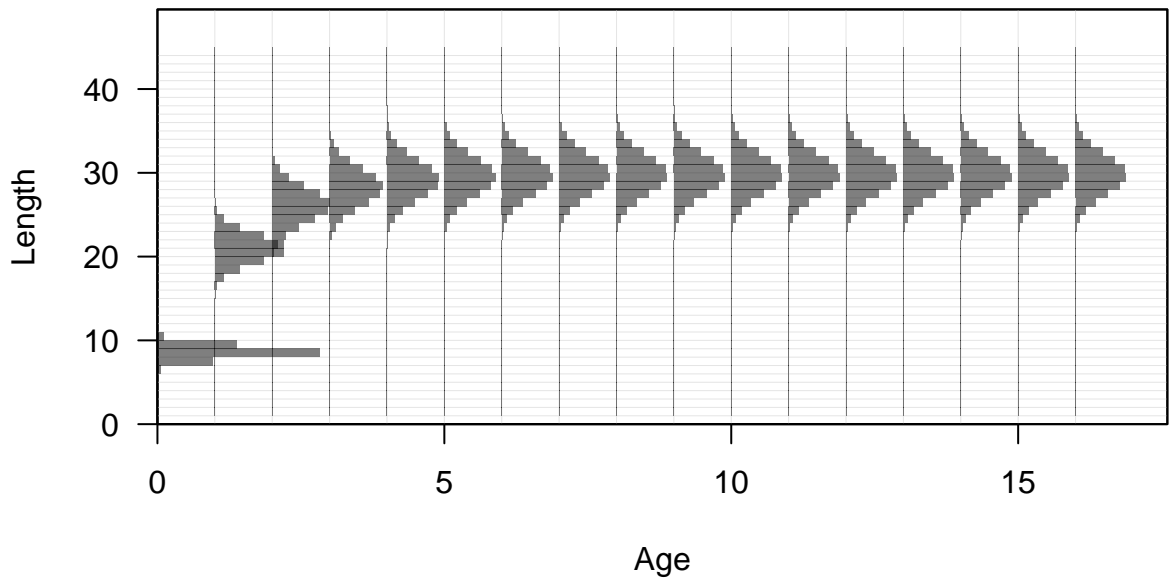
Length (cm, beginning of the year)

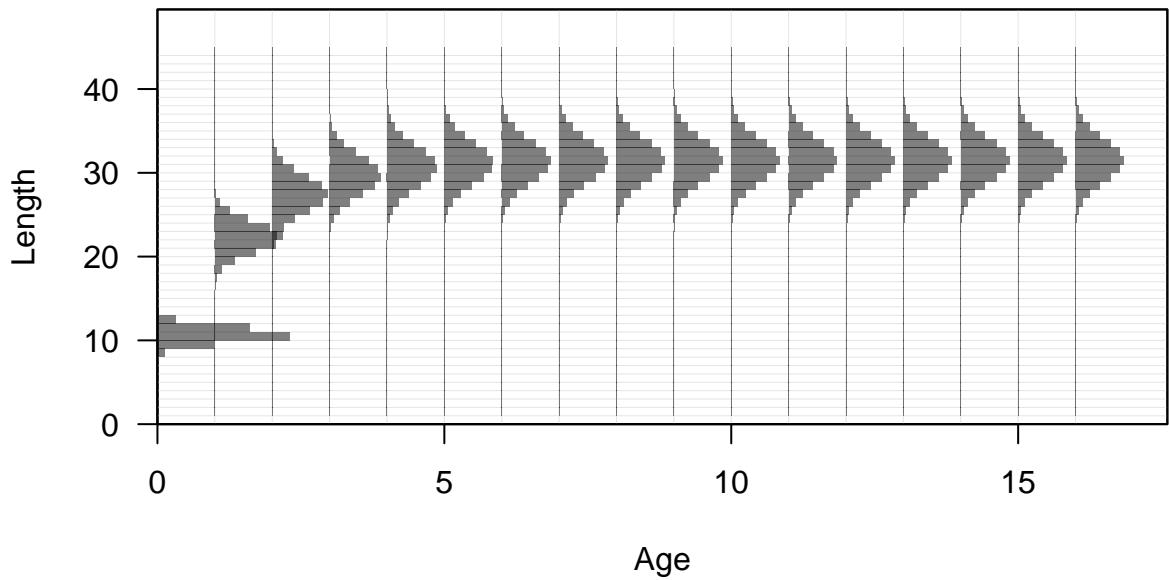


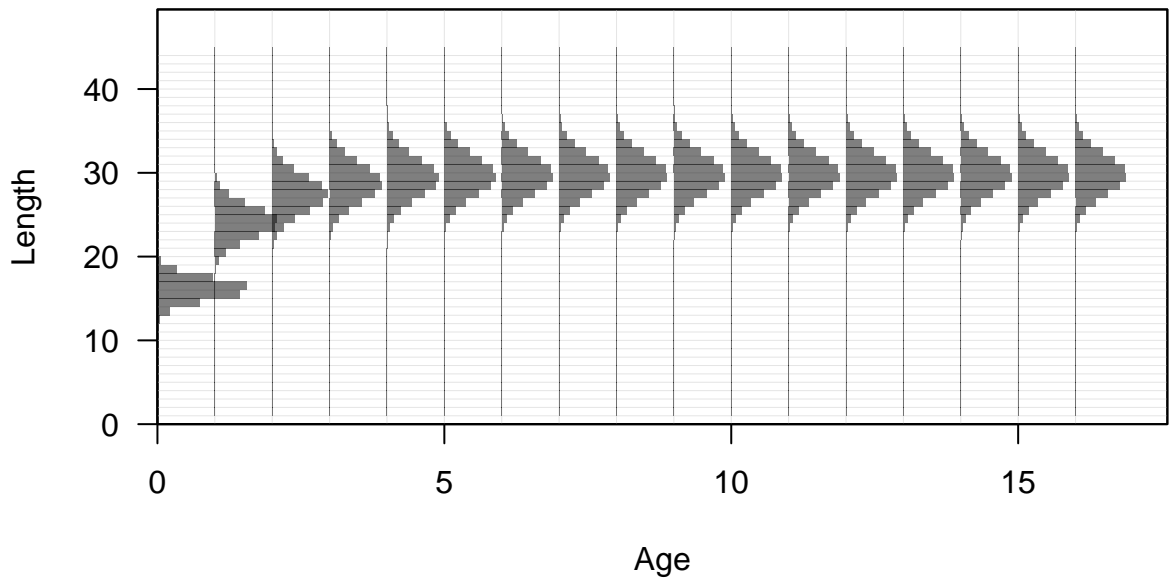
Age (yr)

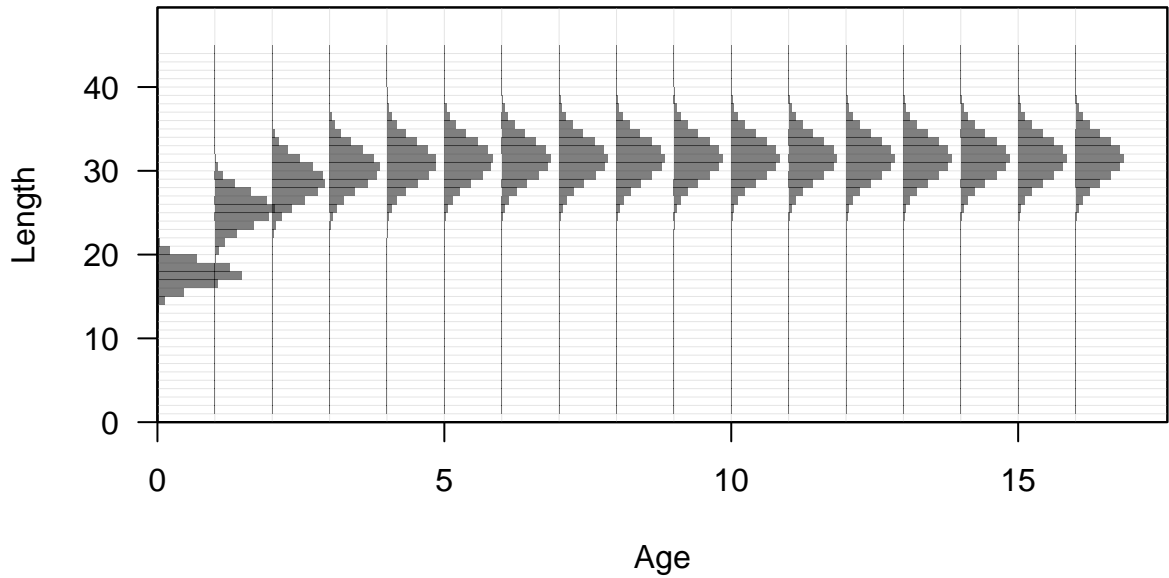




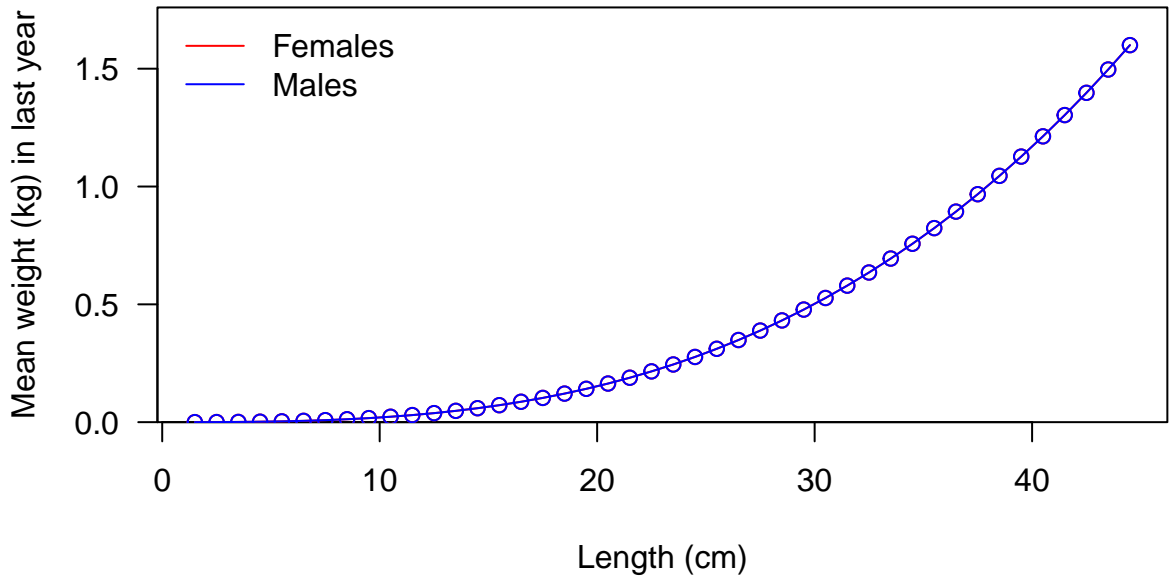


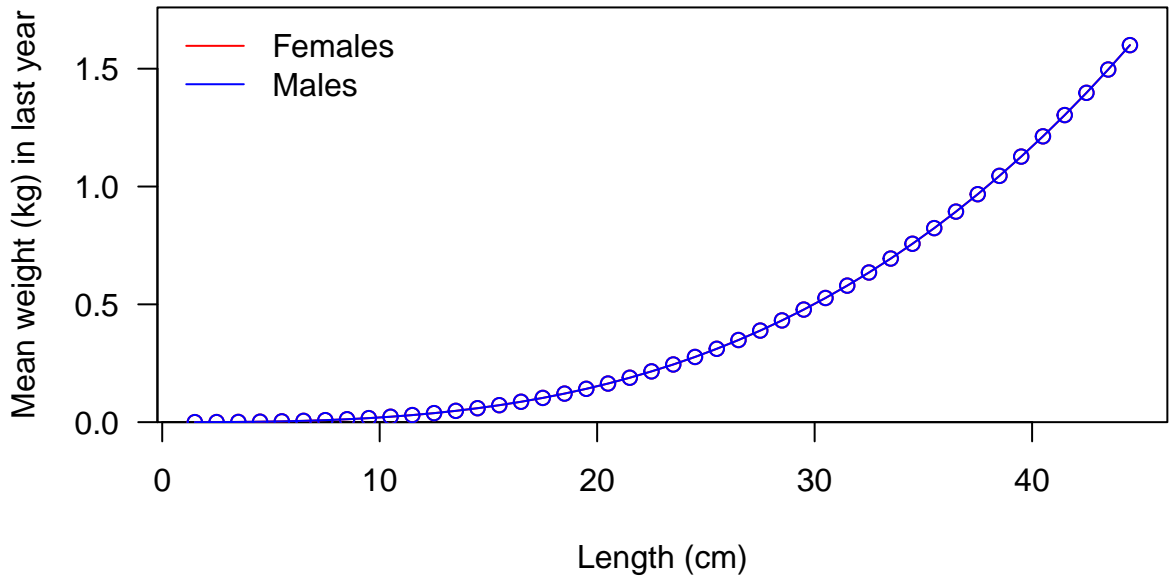


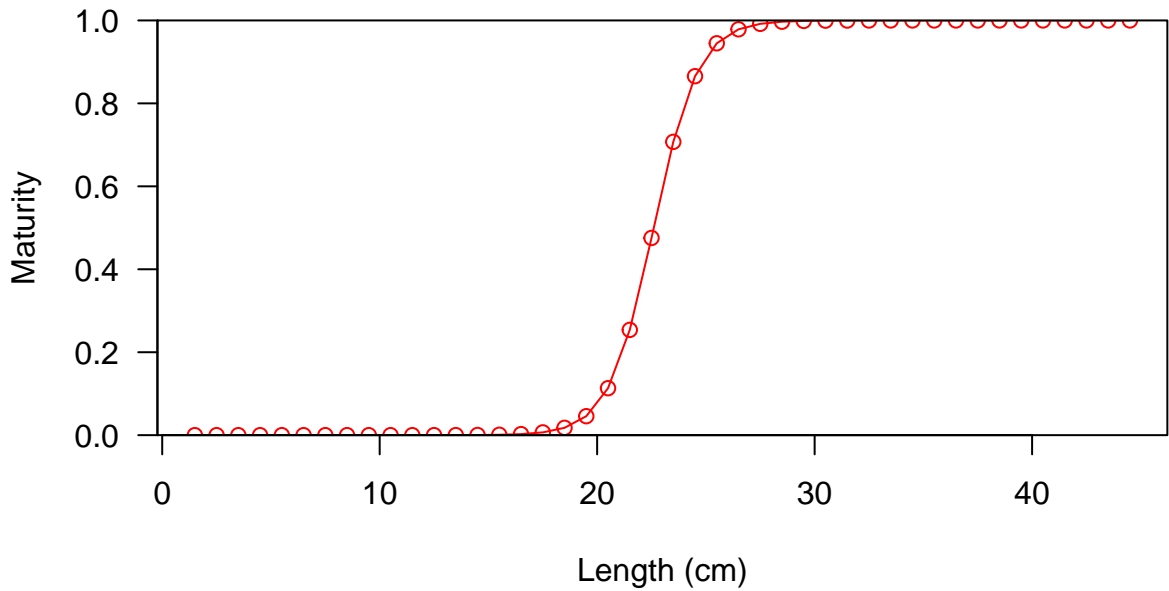


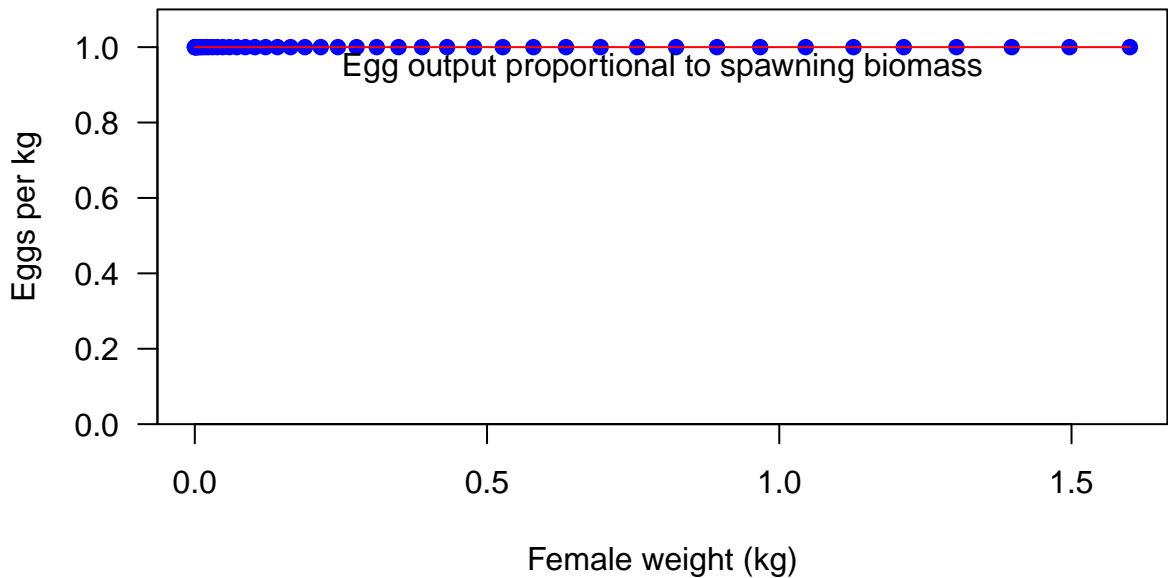


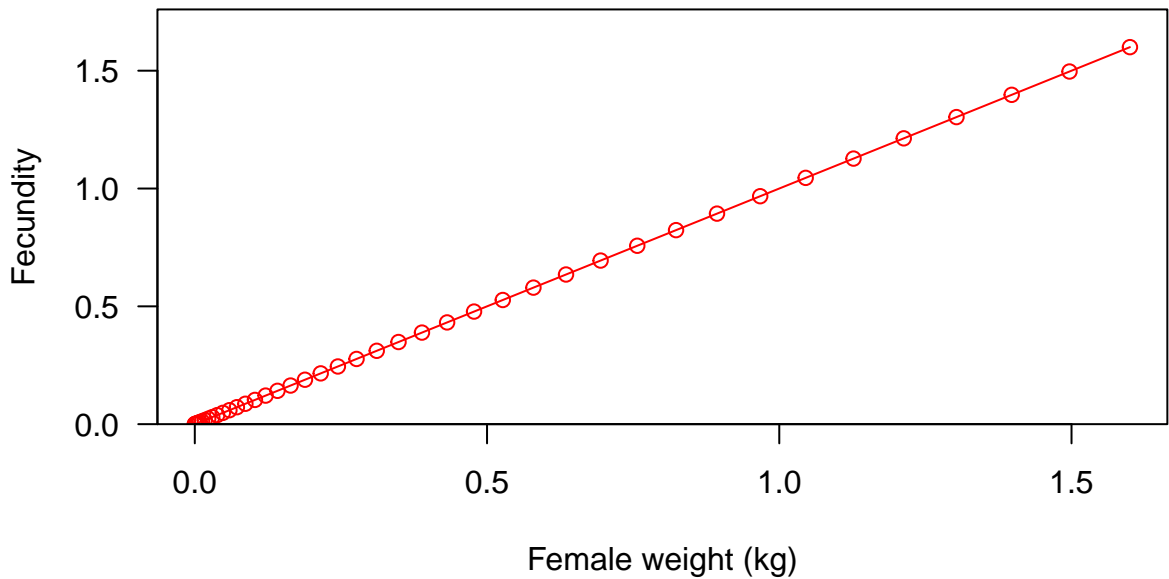


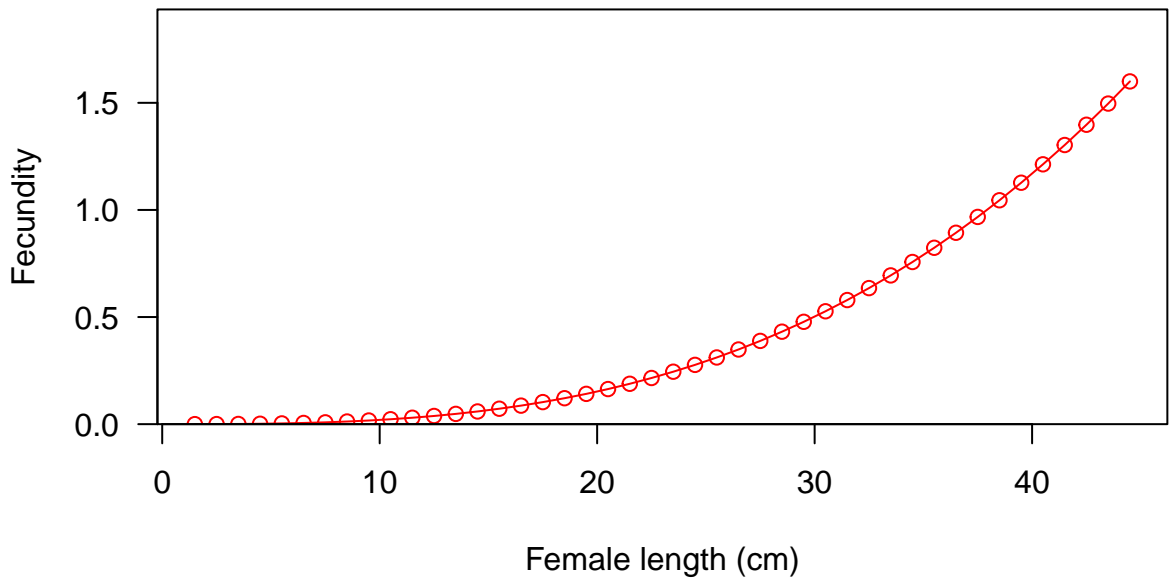


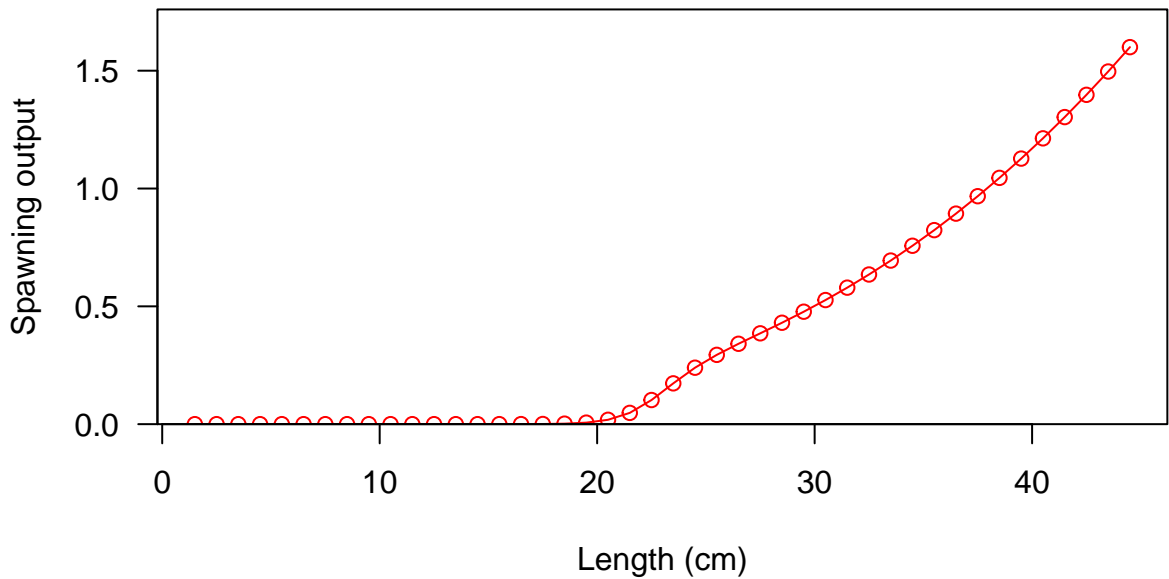


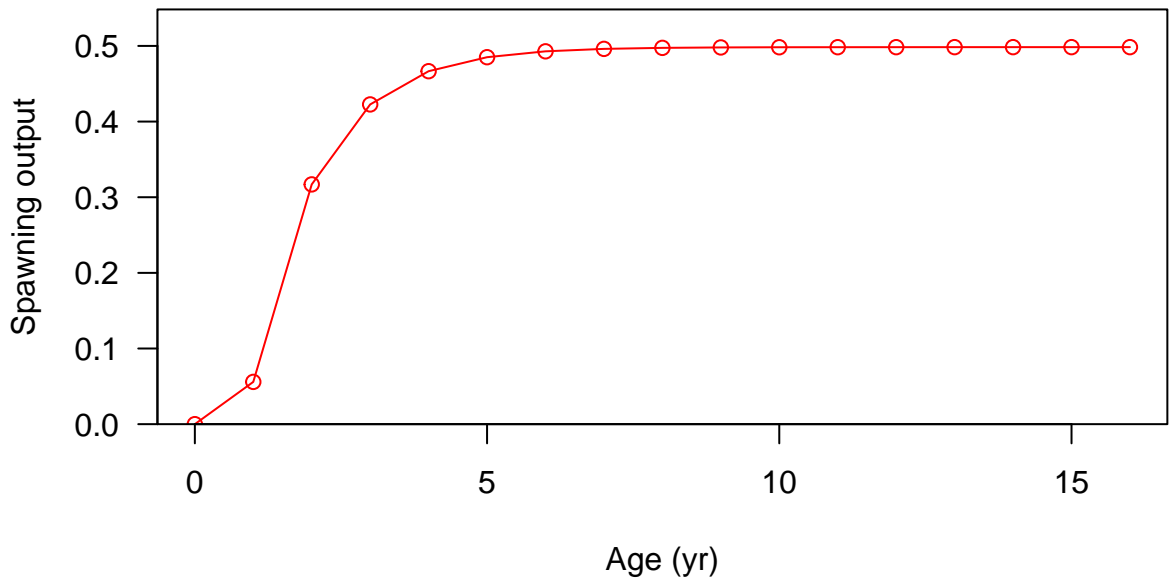




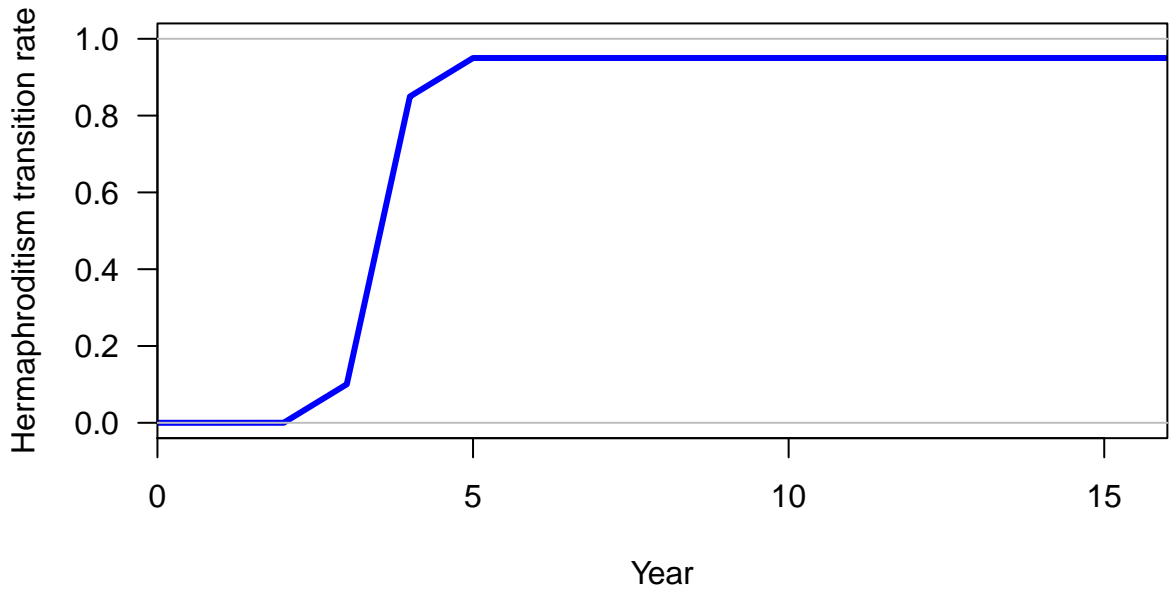




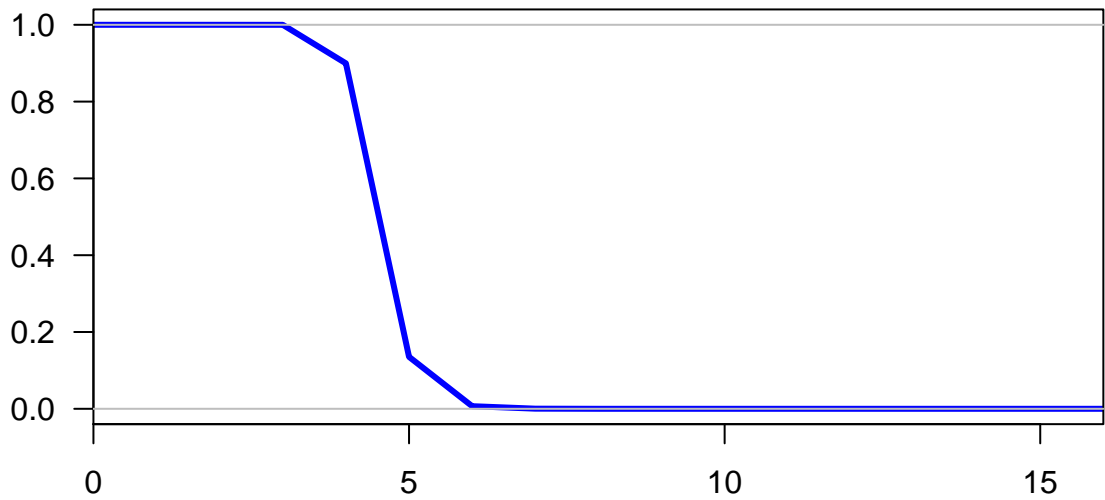






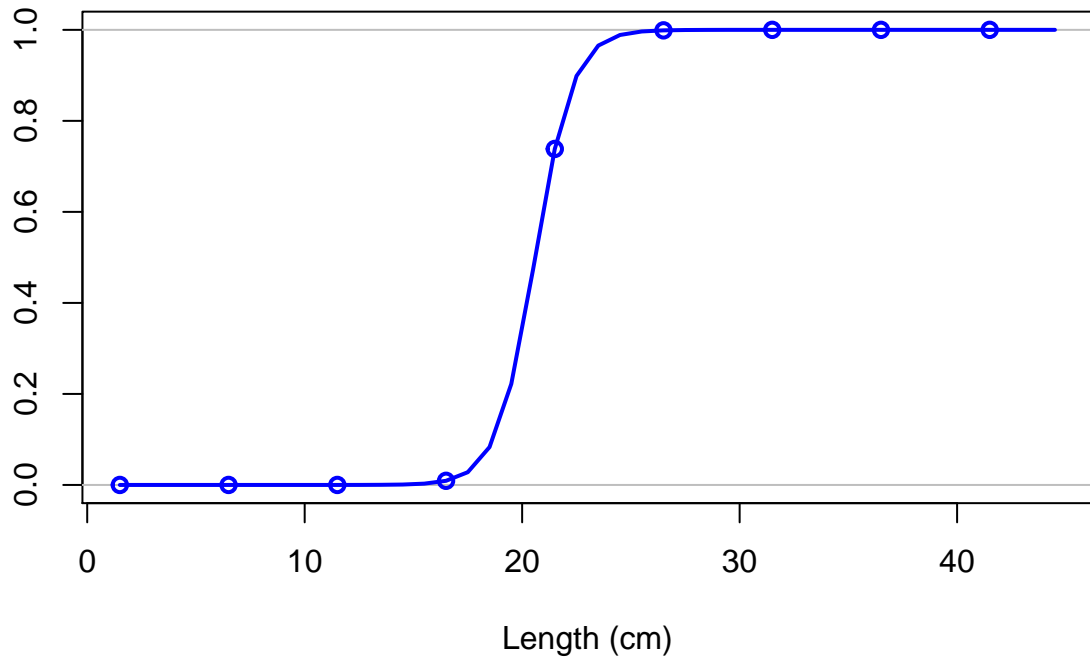


Fraction females by age at equilibrium

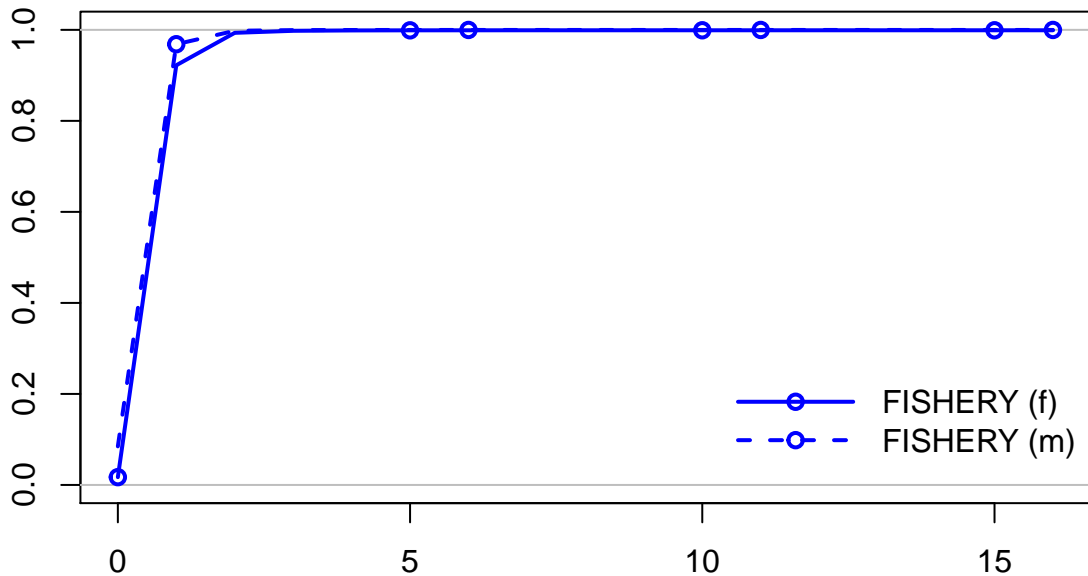


Age (yr)

Selectivity

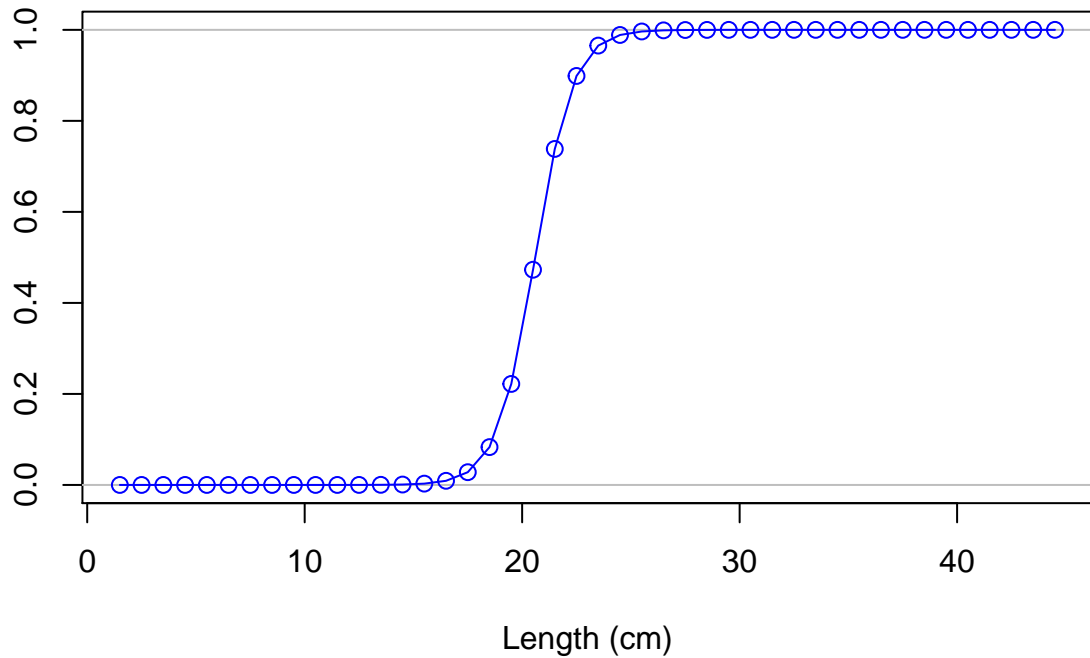


Selectivity

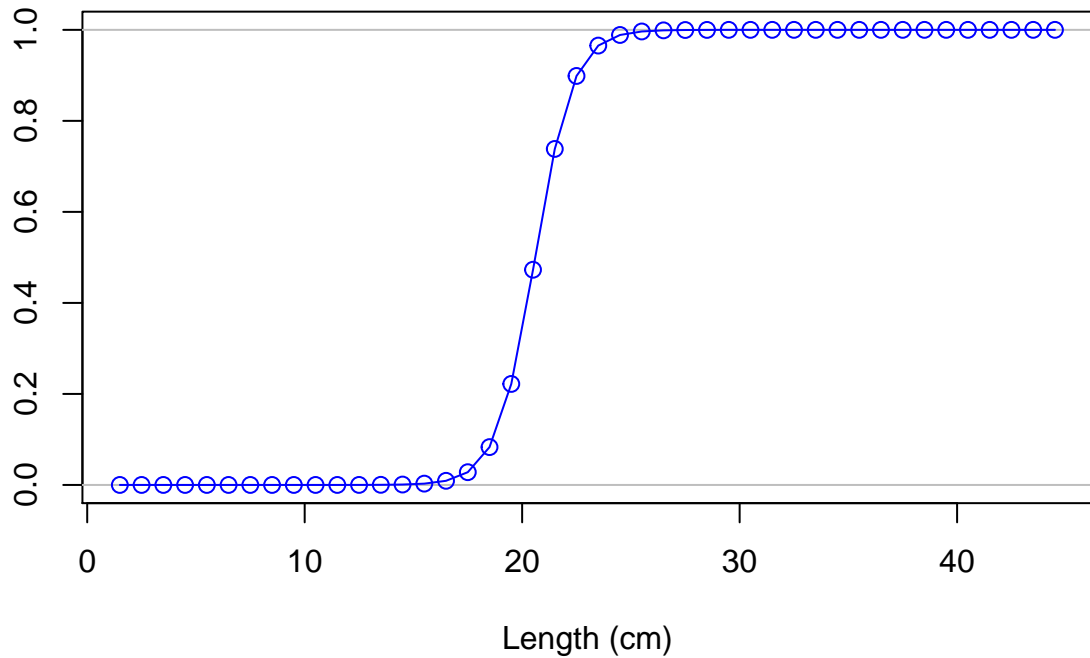


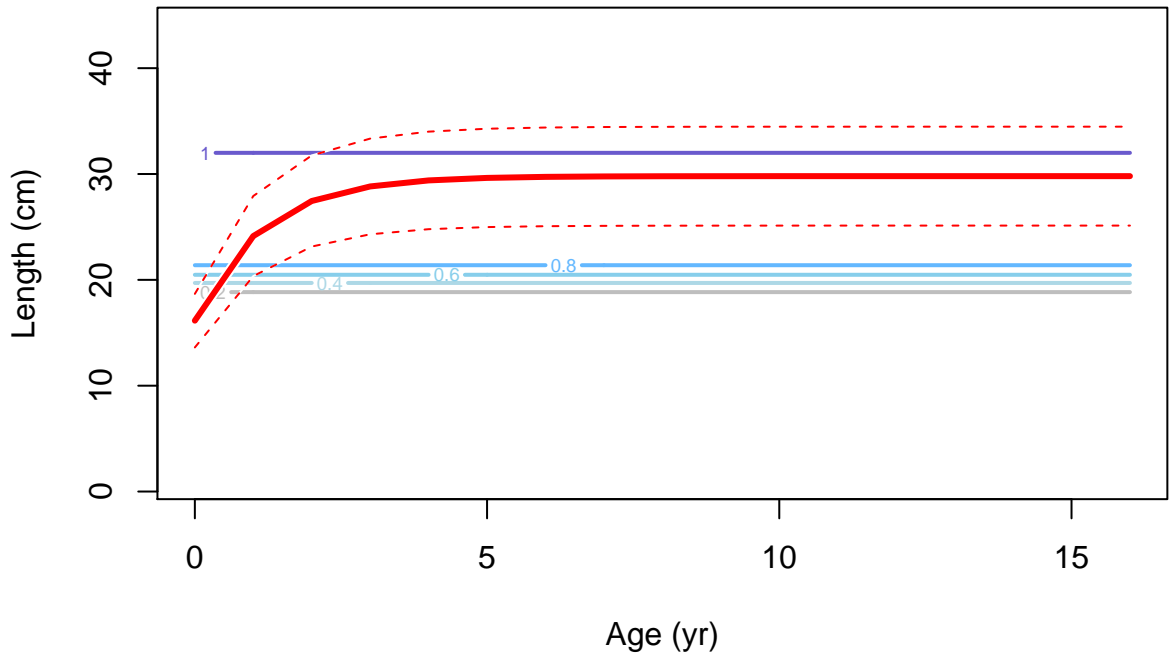
Age (yr)

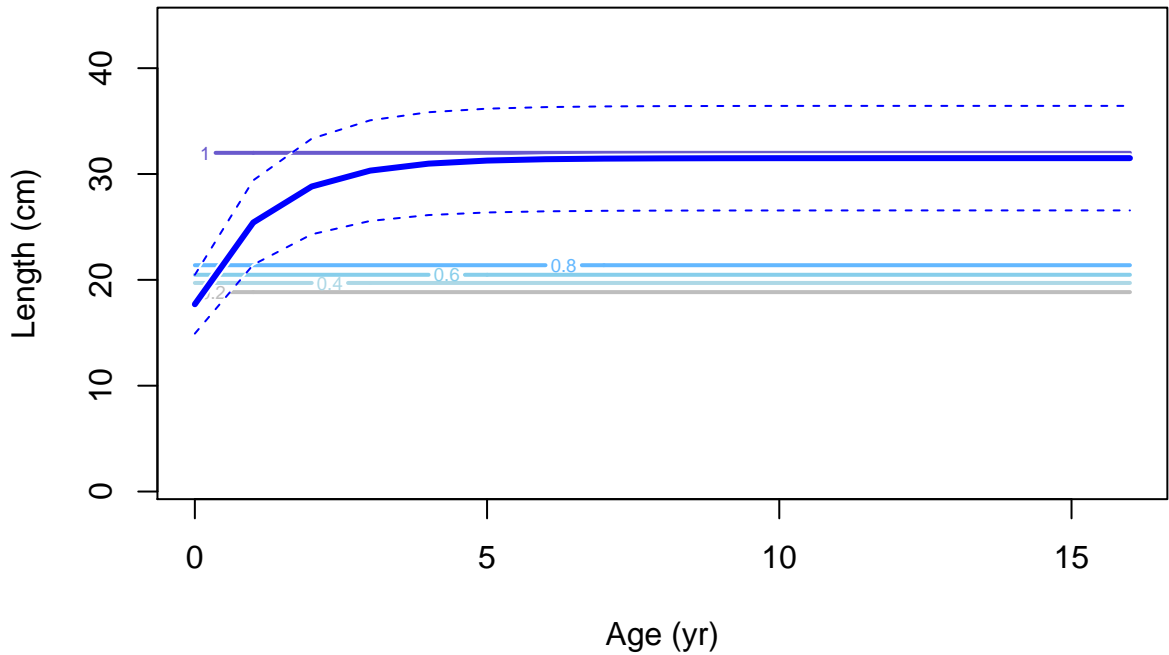
Selectivity



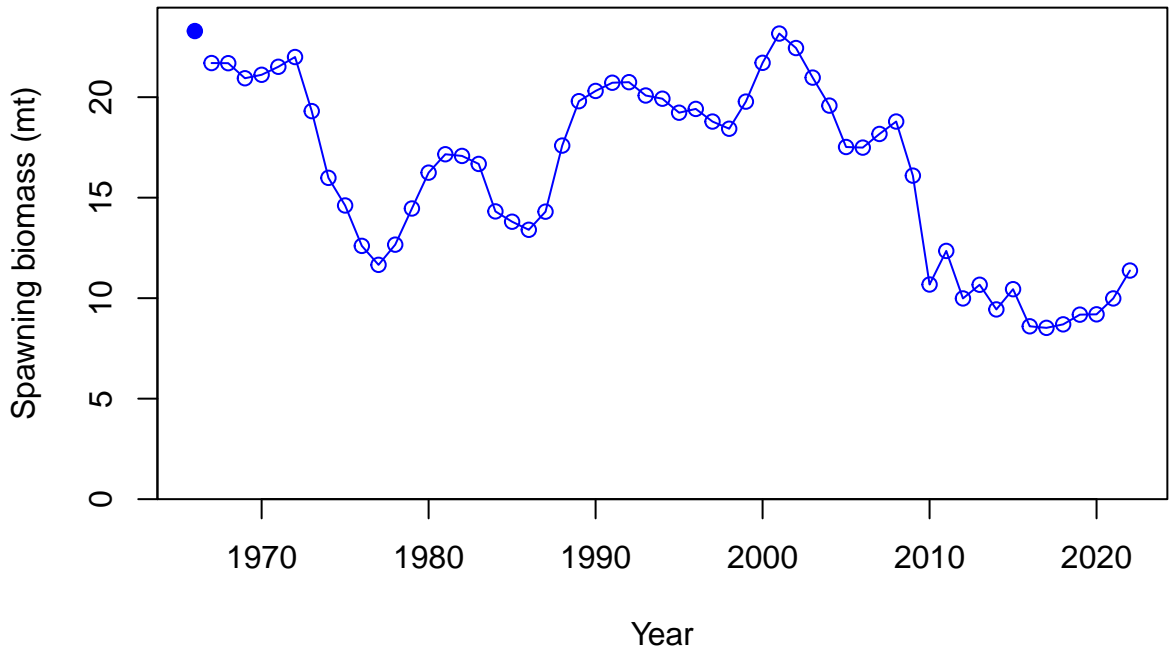
Selectivity



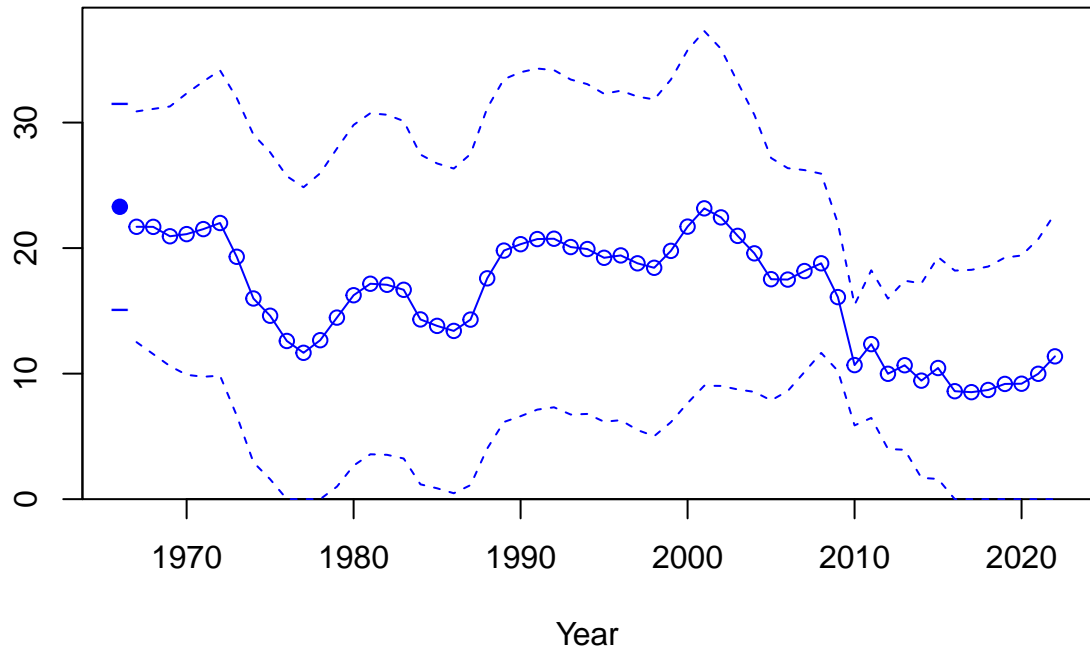




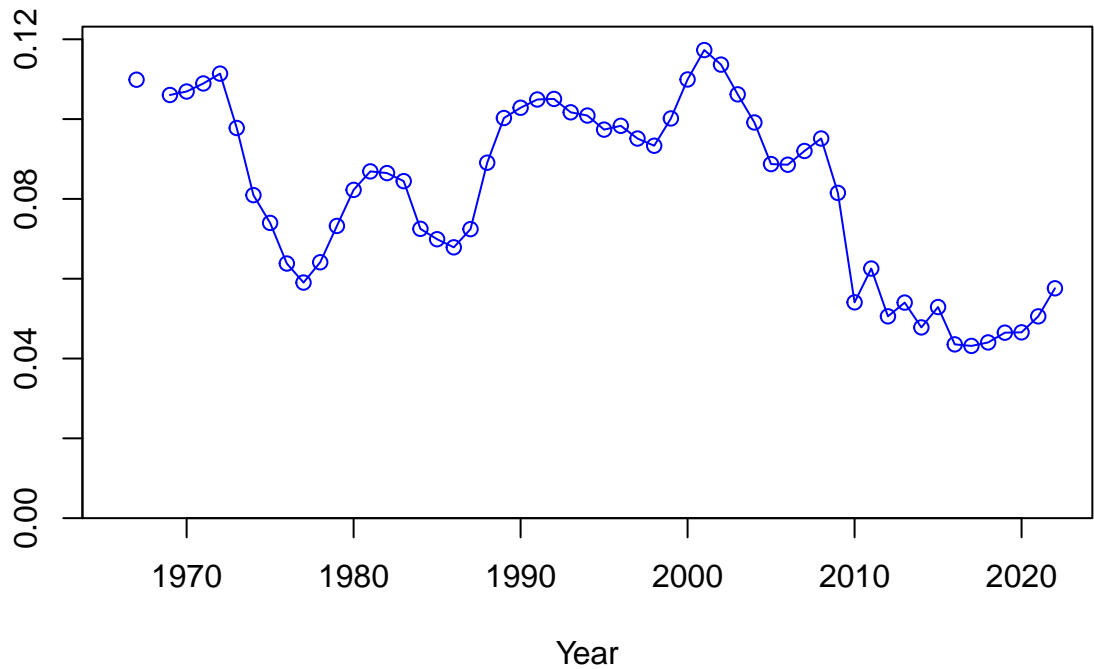




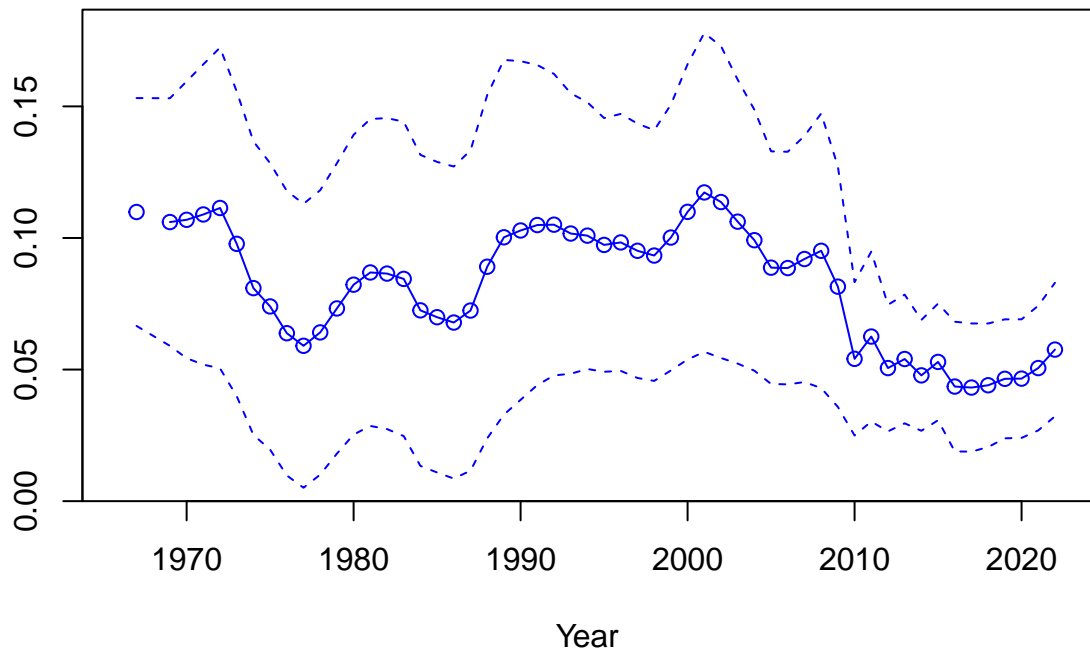
Spawning biomass (mt)

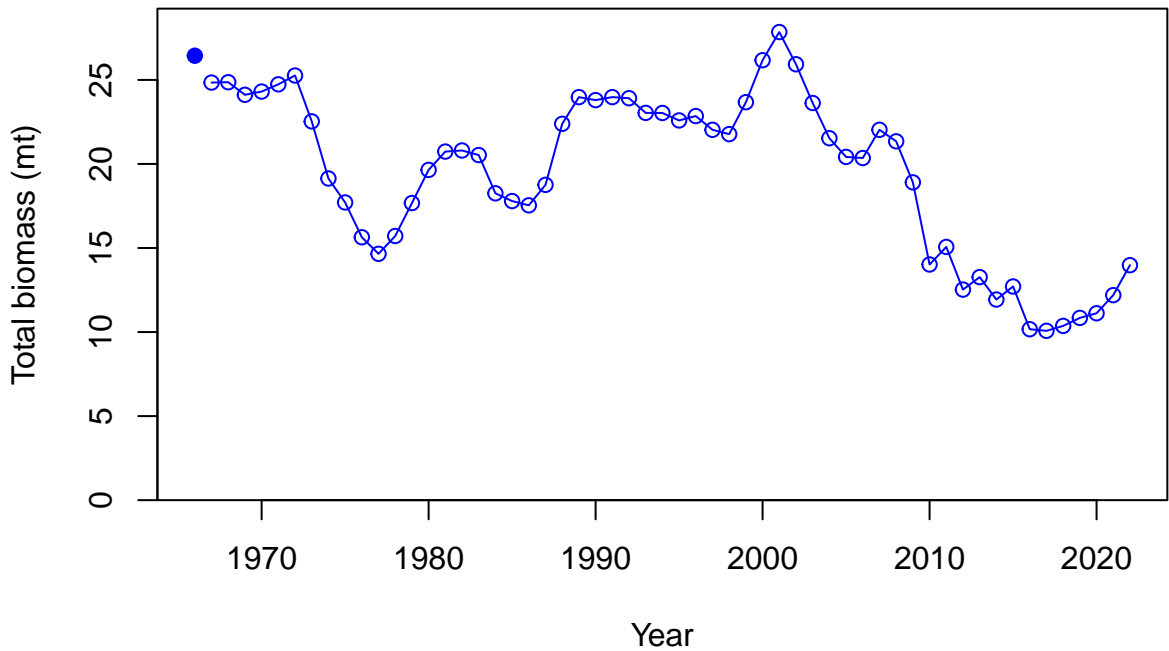


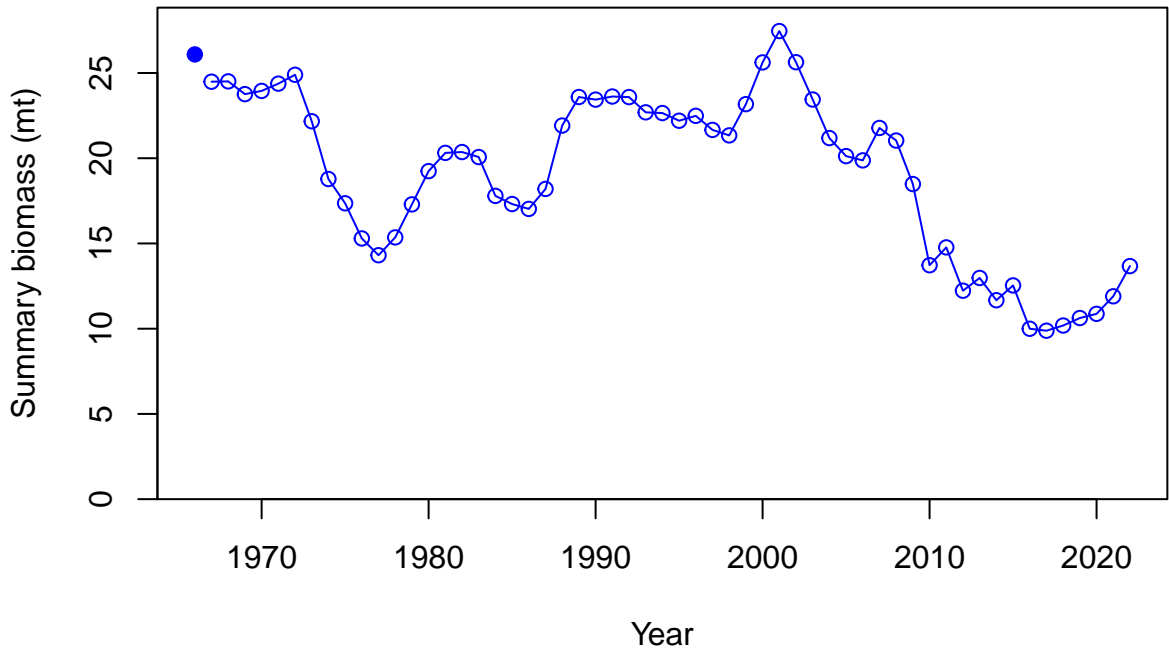
Relative spawning biomass:  $B/B_{MSY}$



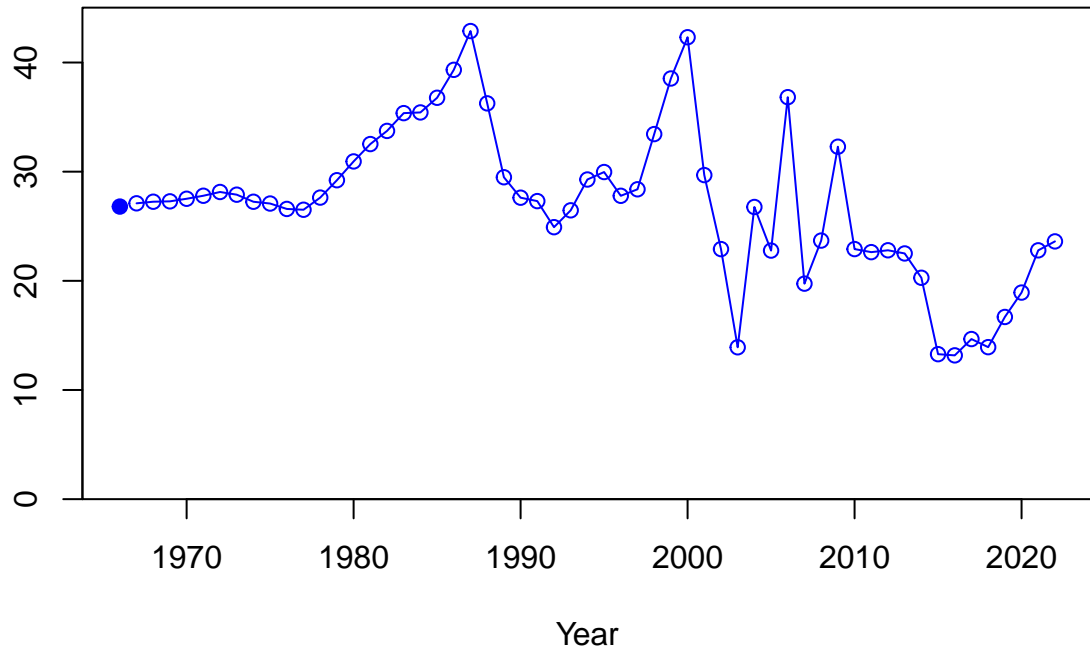
Relative spawning biomass:  $B/B_{MSY}$



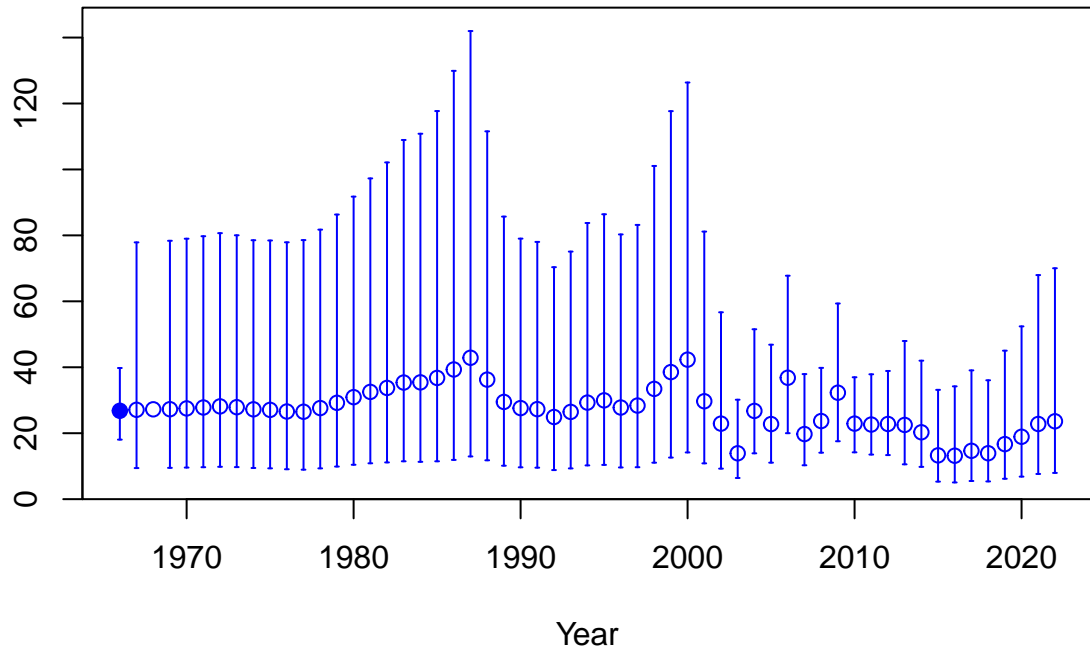




Age-0 recruits (1,000s)

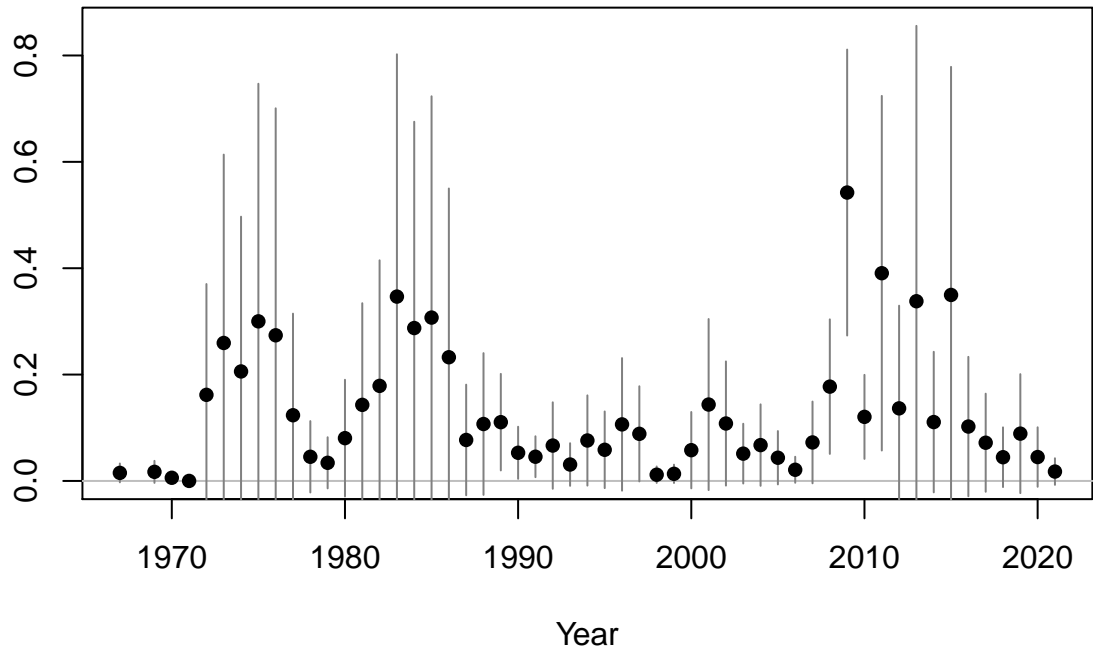


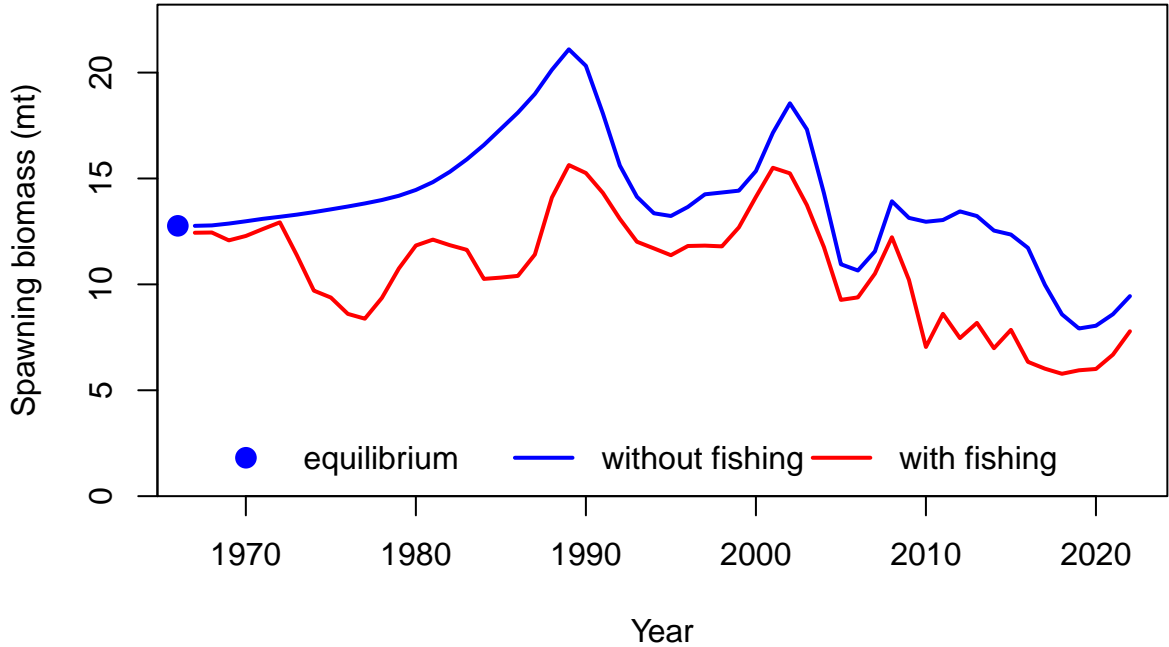
Age-0 recruits (1,000s)



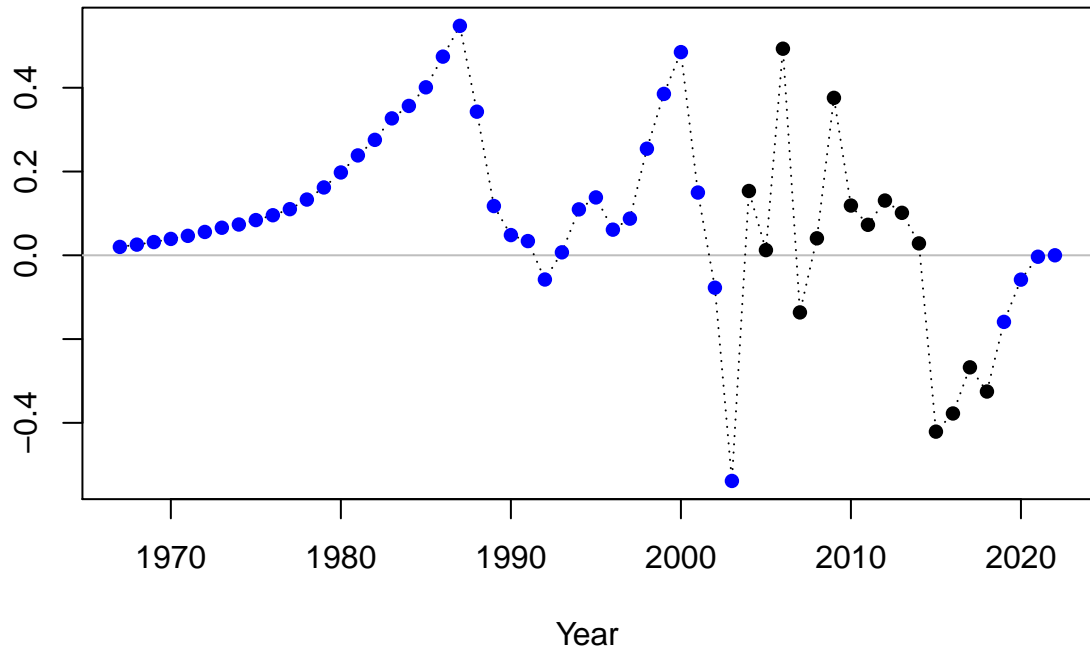


Summary Fishing Mortality

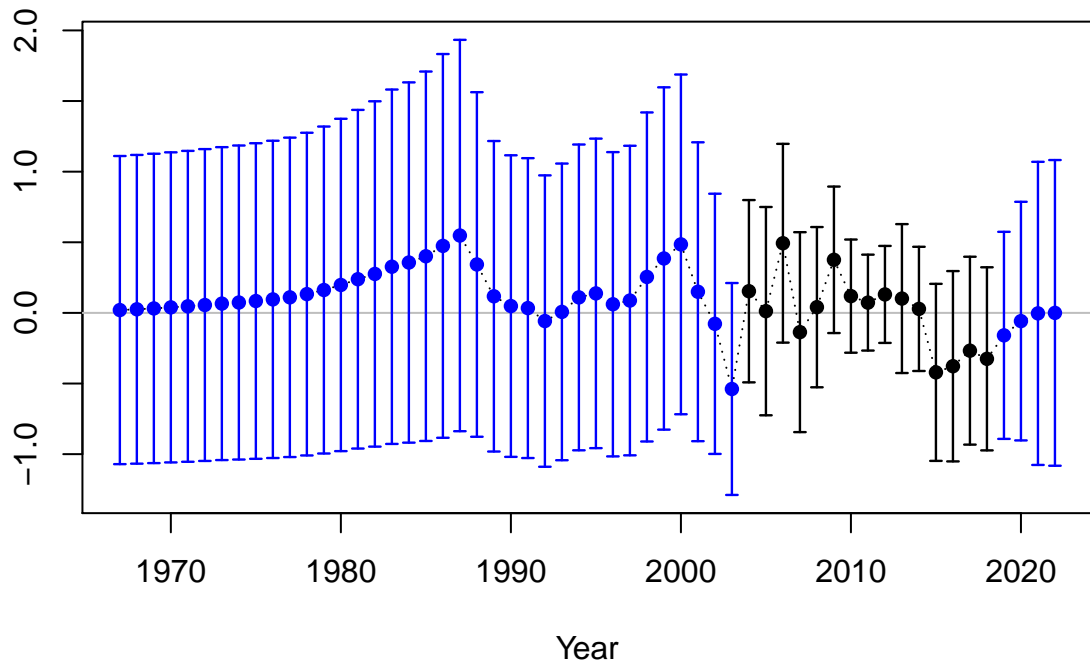




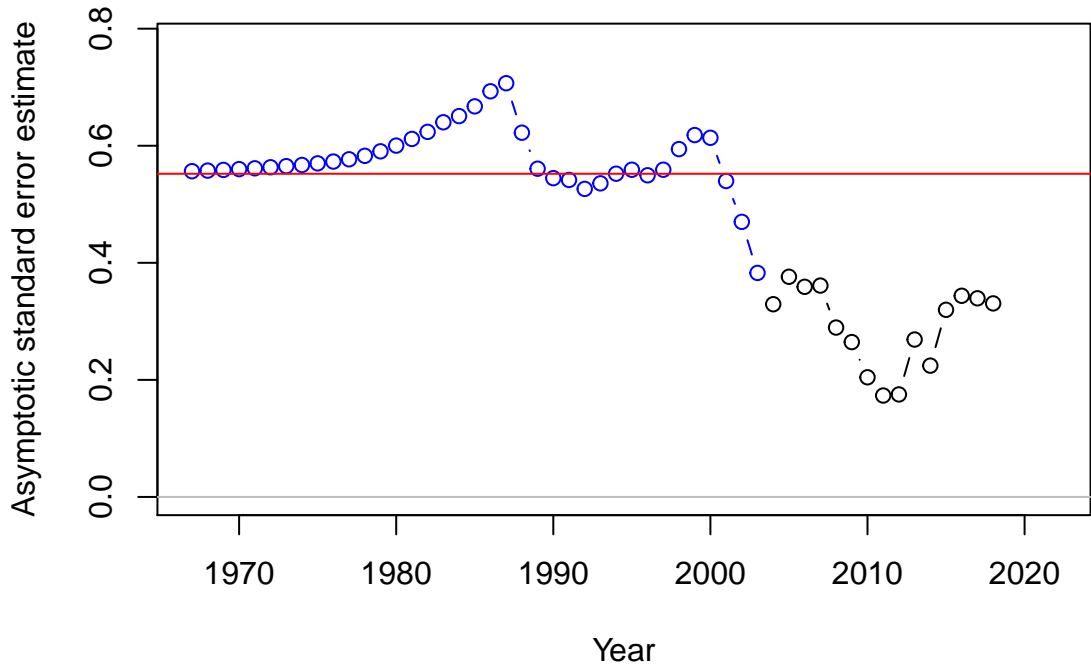
Log recruitment deviation

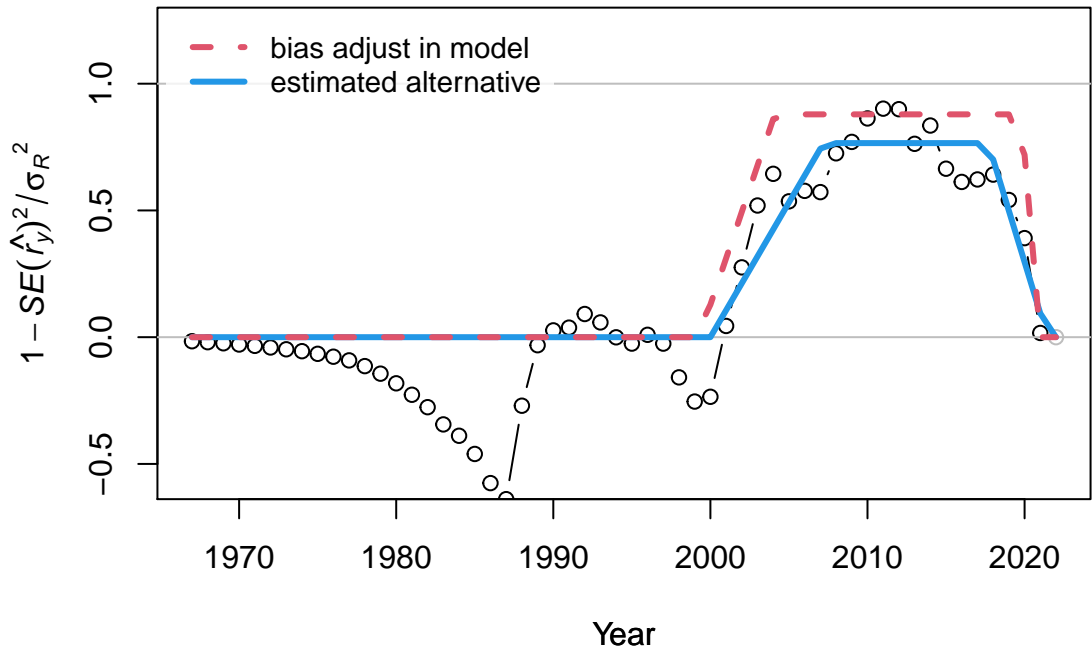


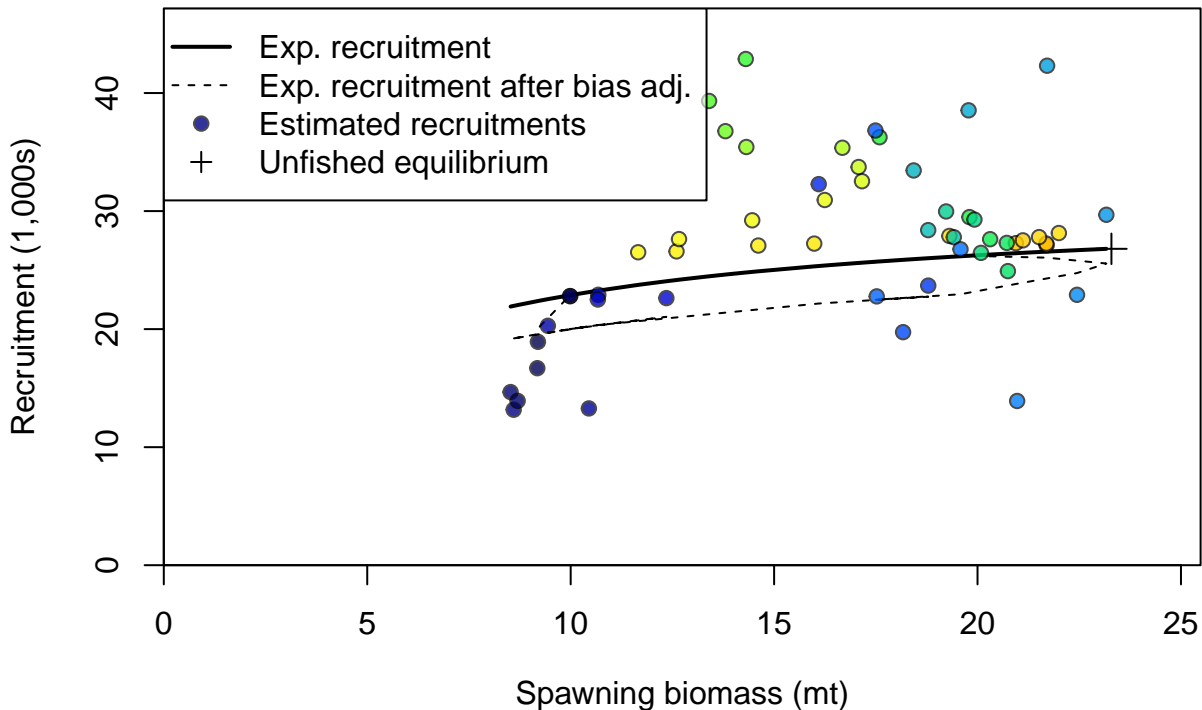
Log recruitment deviation

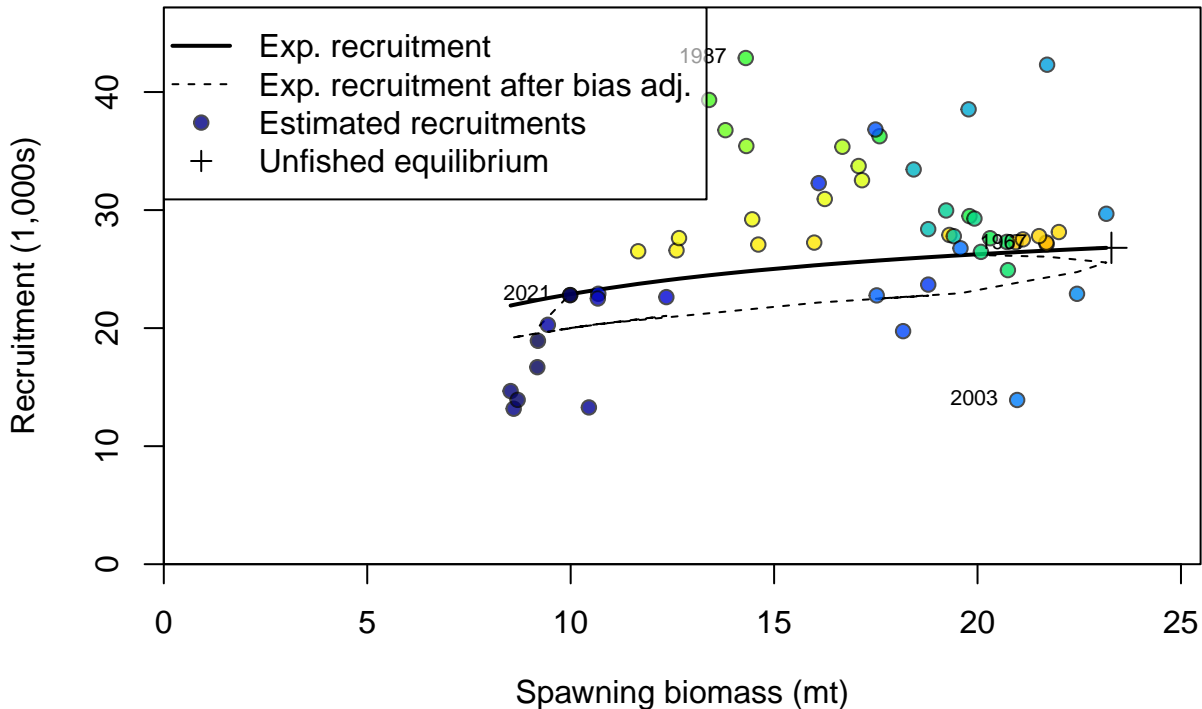


## Recruitment deviation variance

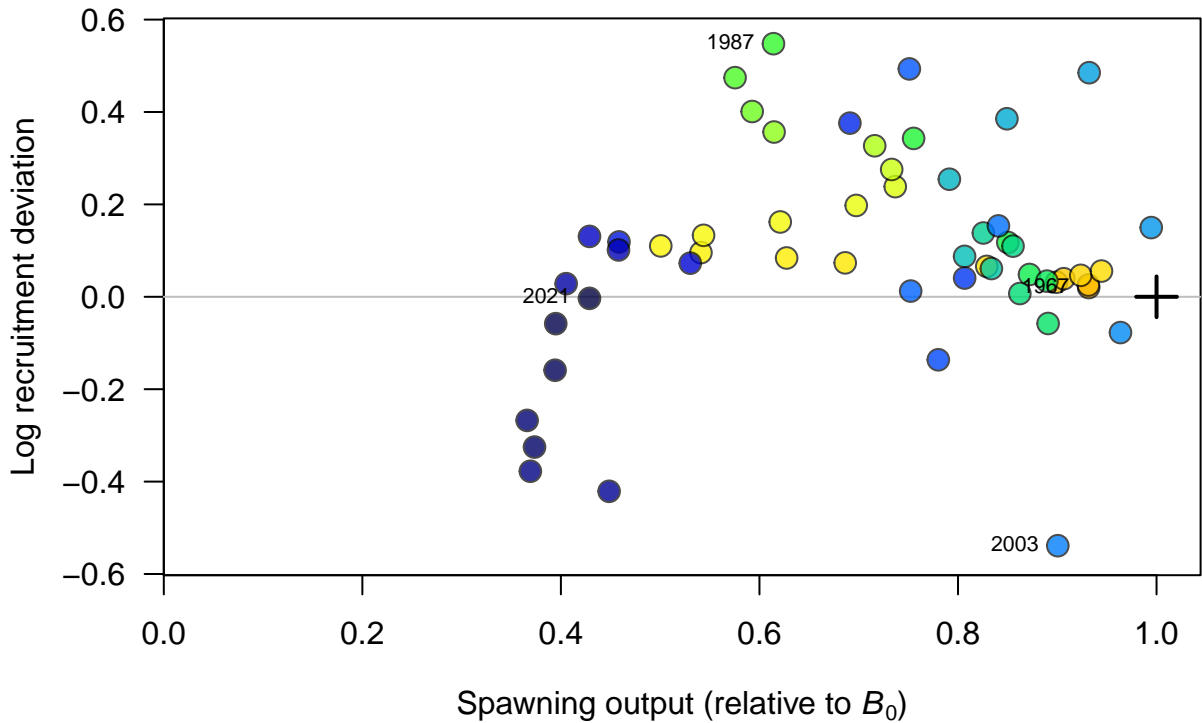


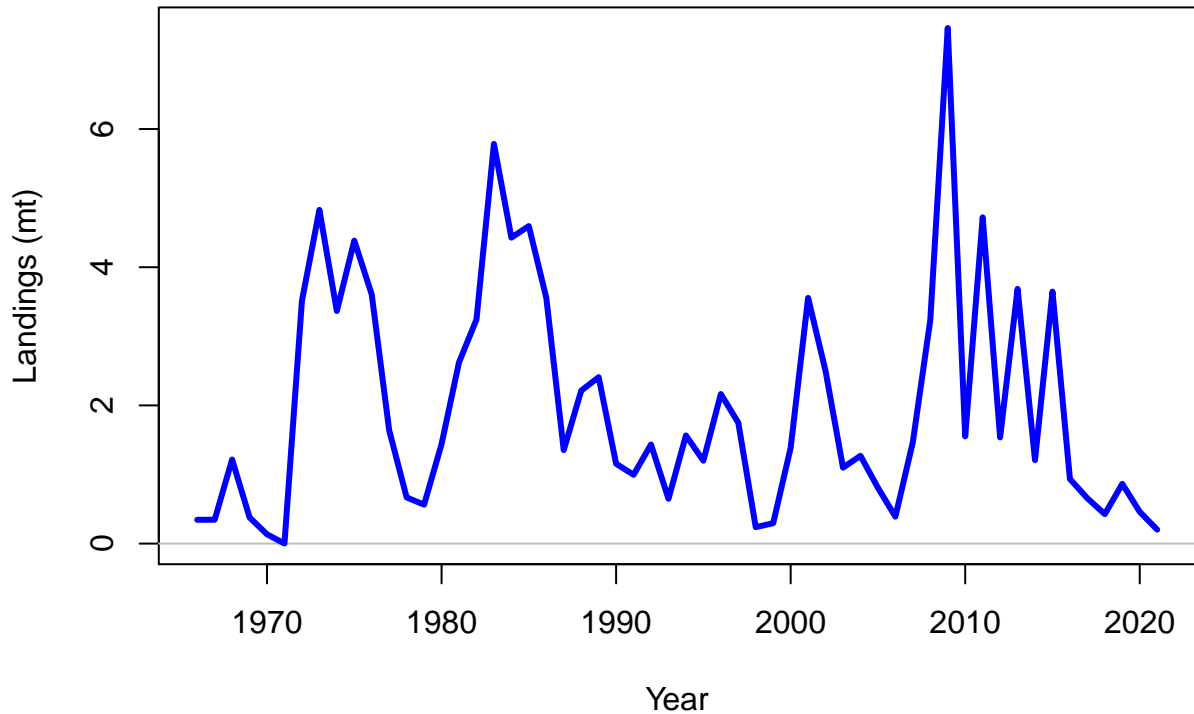


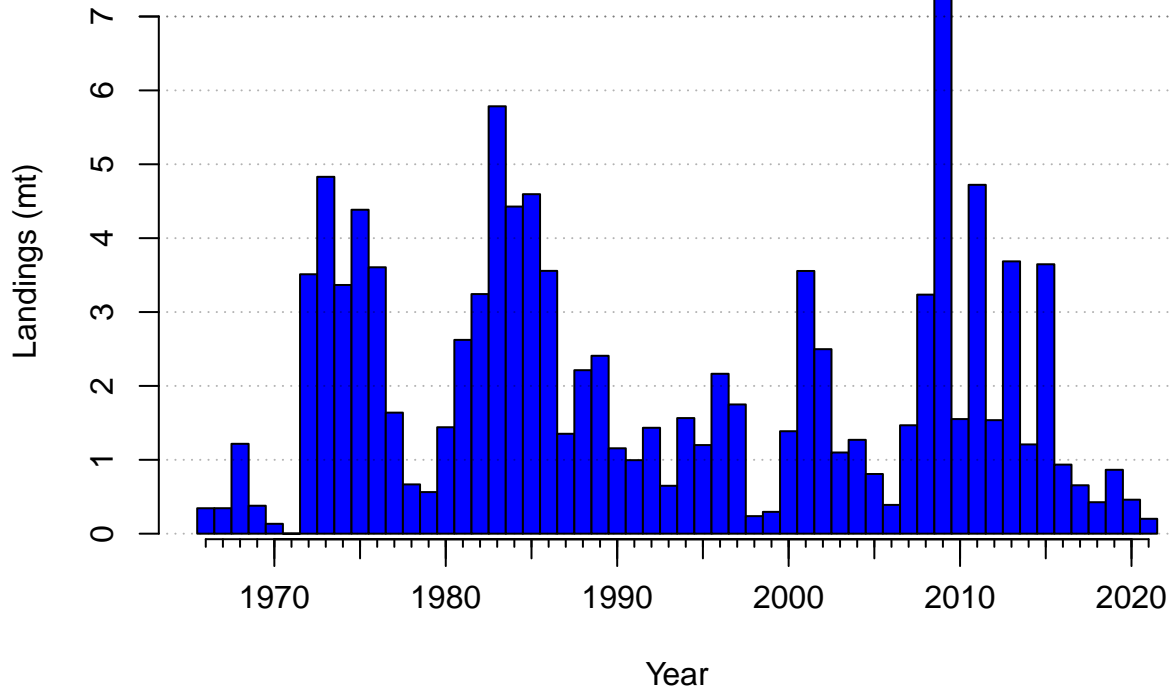




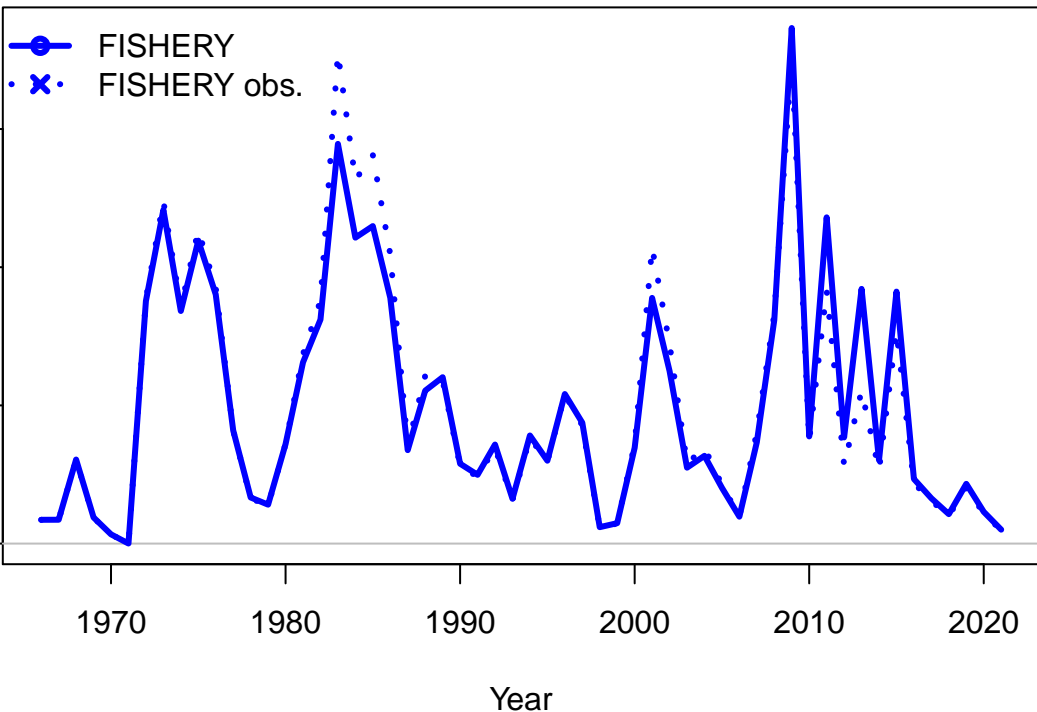


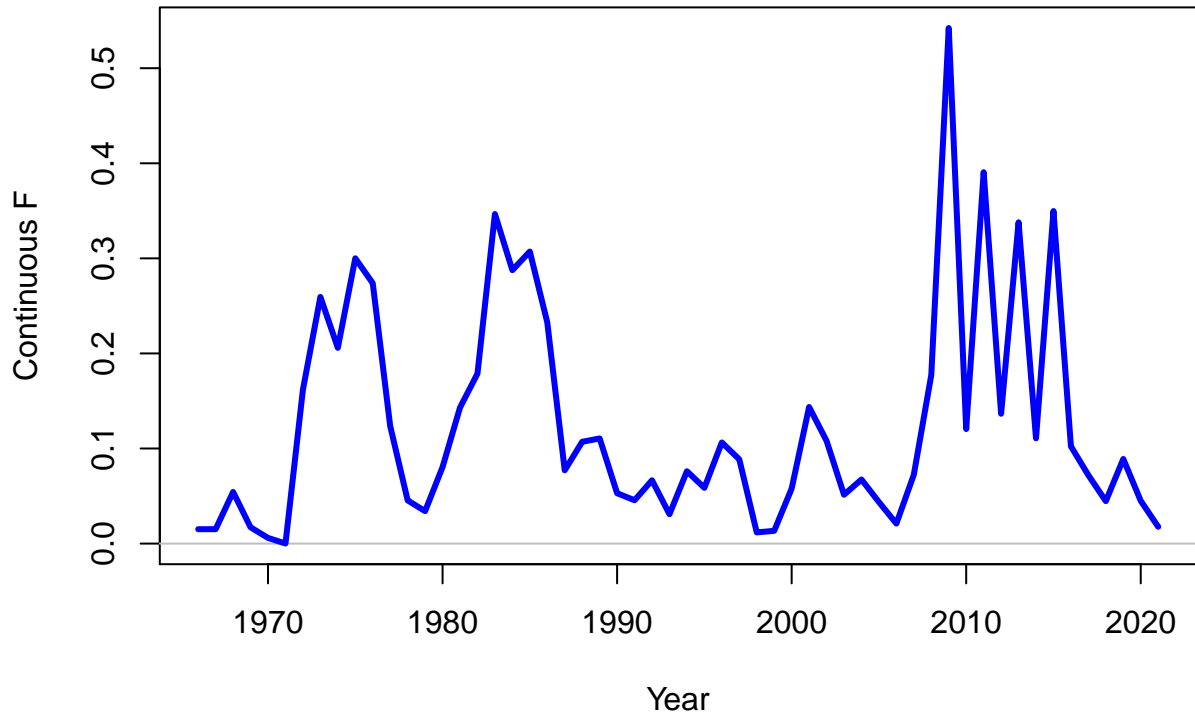




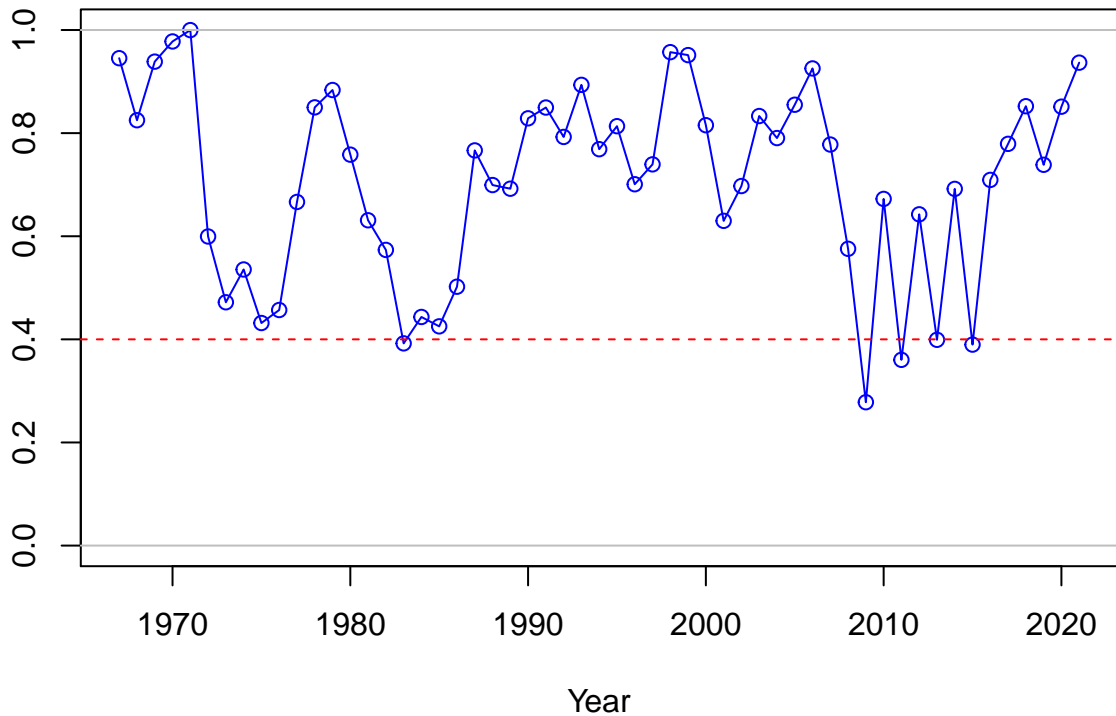


Observed and expected Landings (mt)

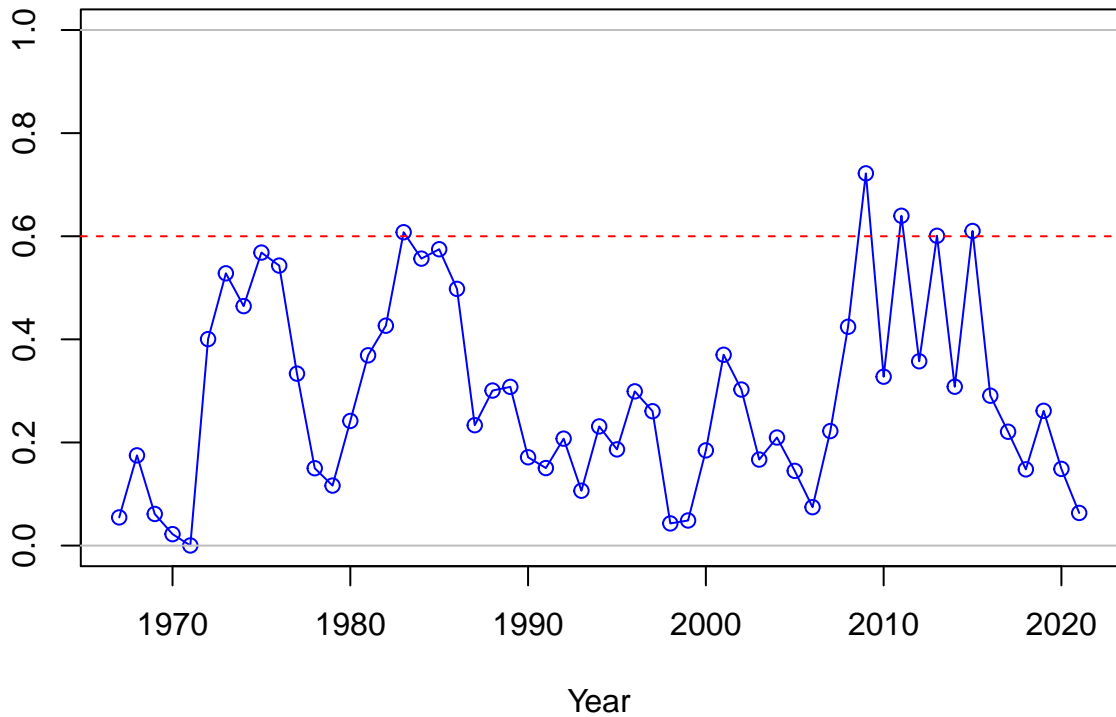




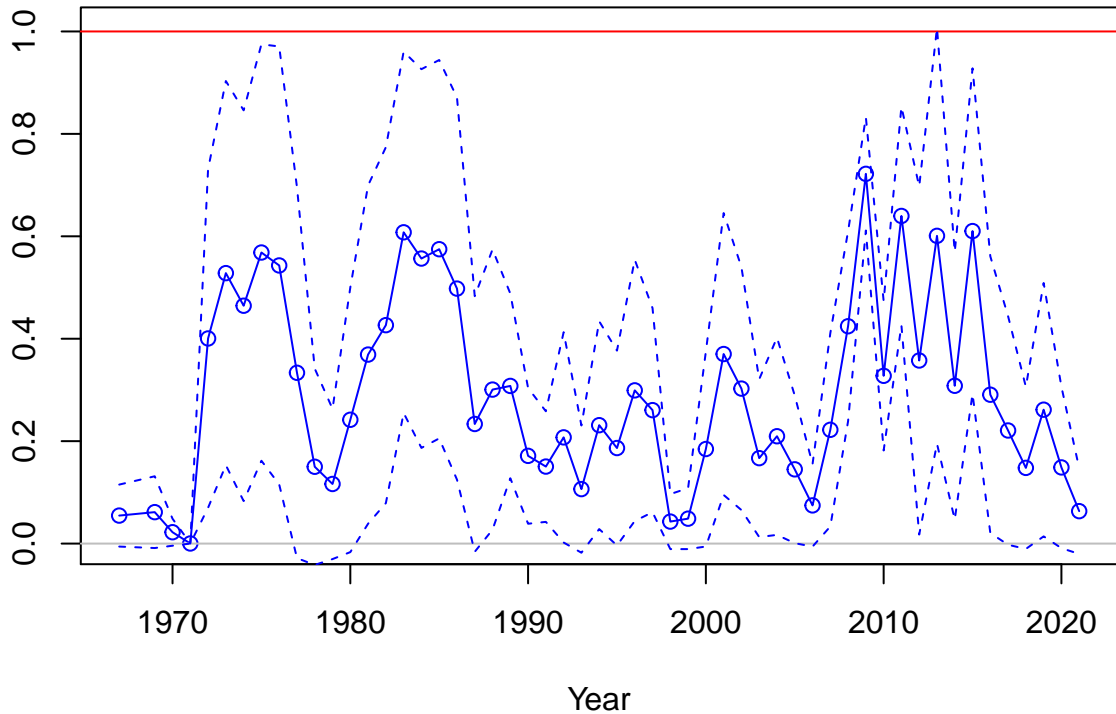
SPR



1-SPR

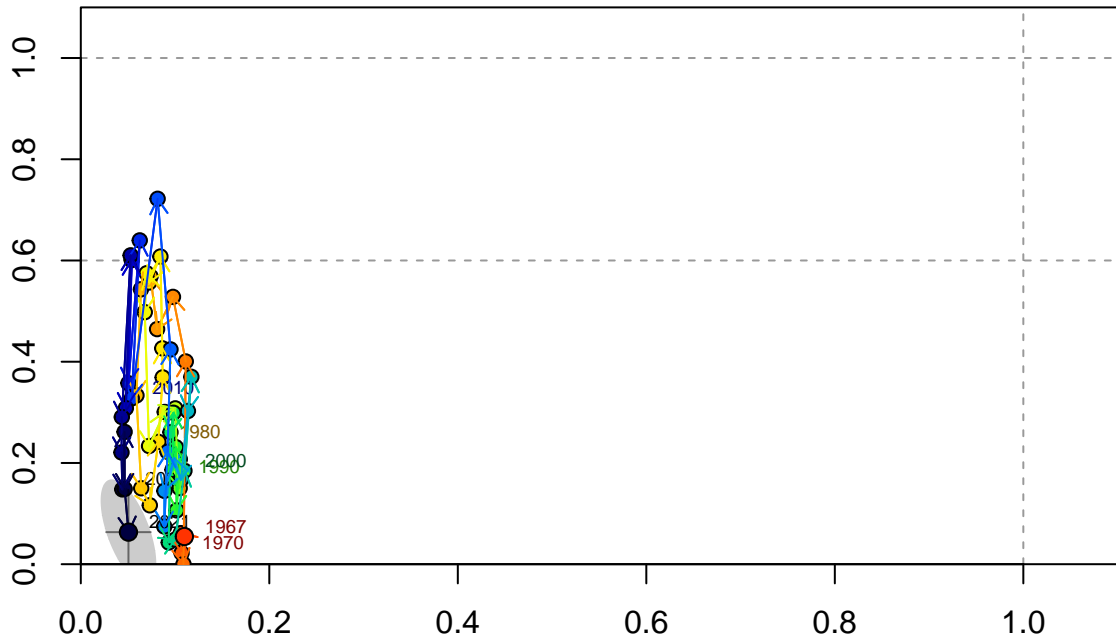


Fishing intensity: 1-SPR



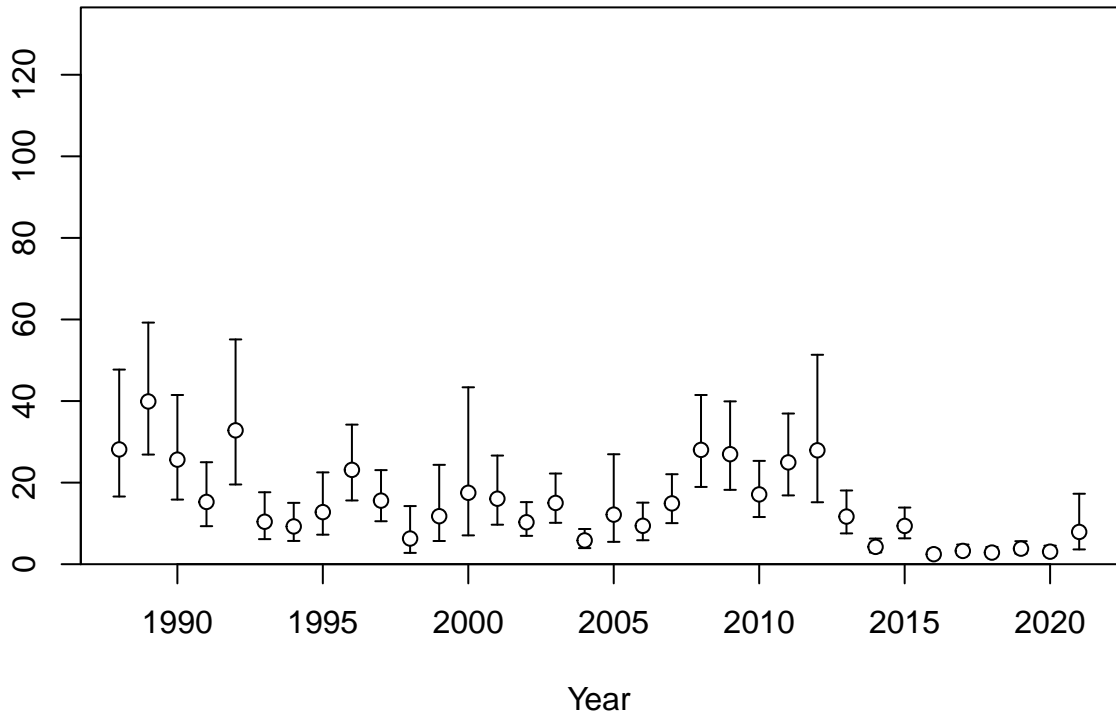


Fishing intensity: 1-SPR

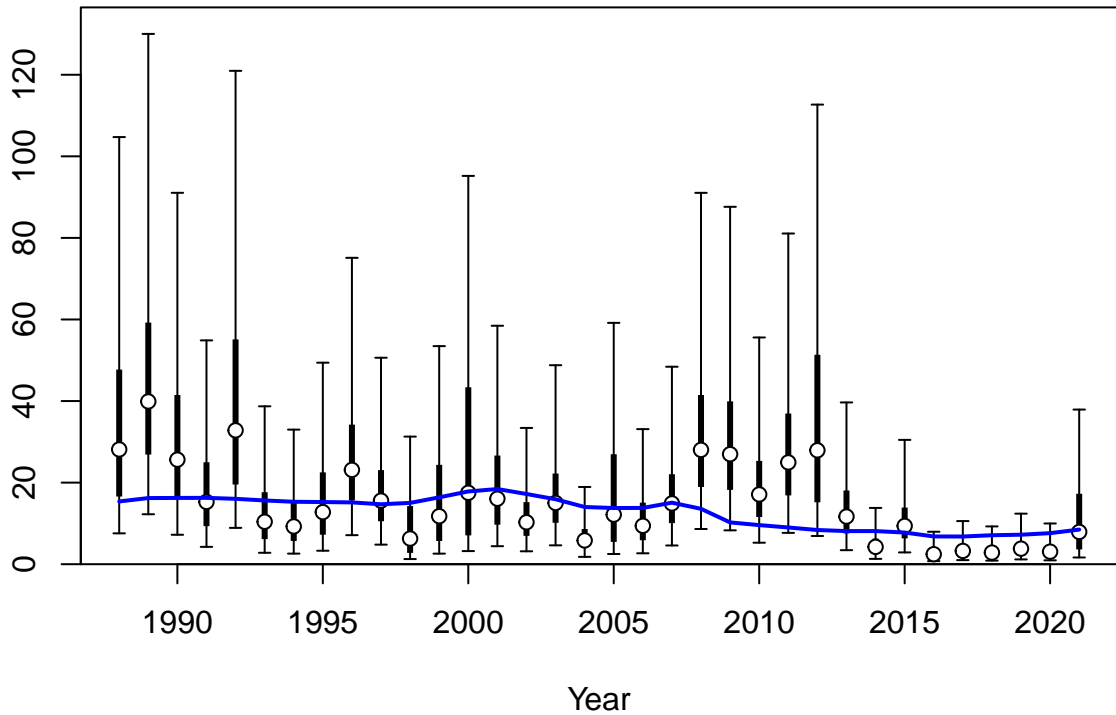


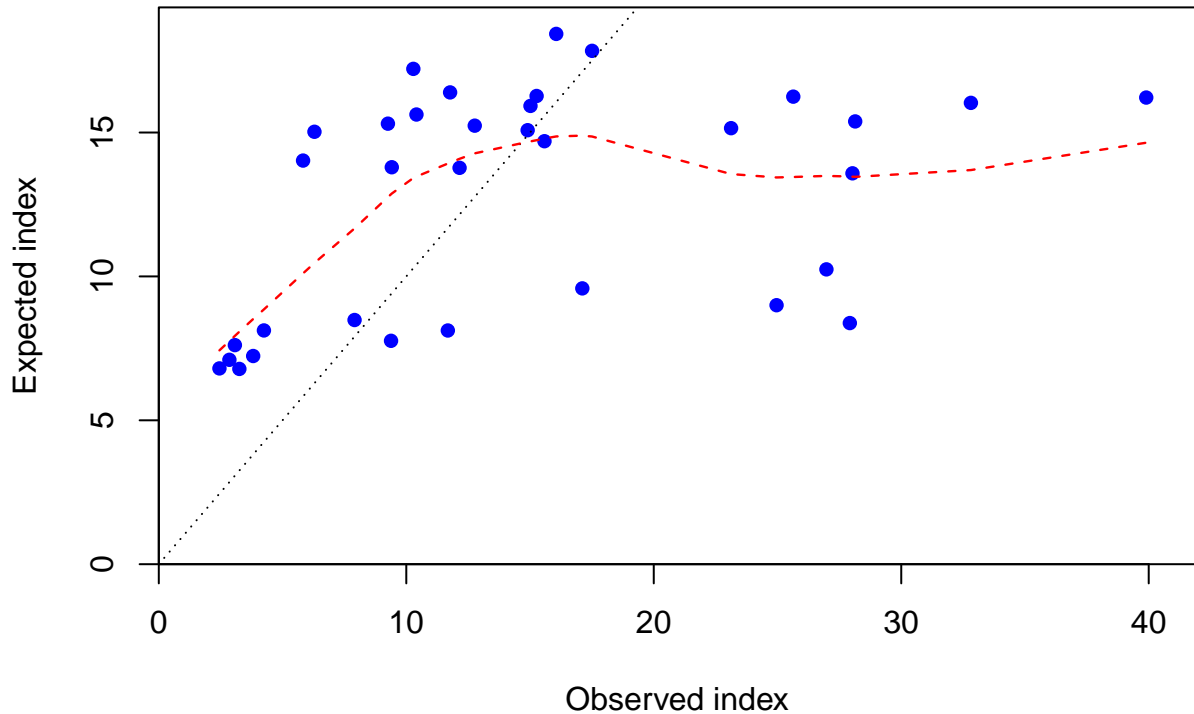
Relative spawning output:  $B/B_{MSY}$

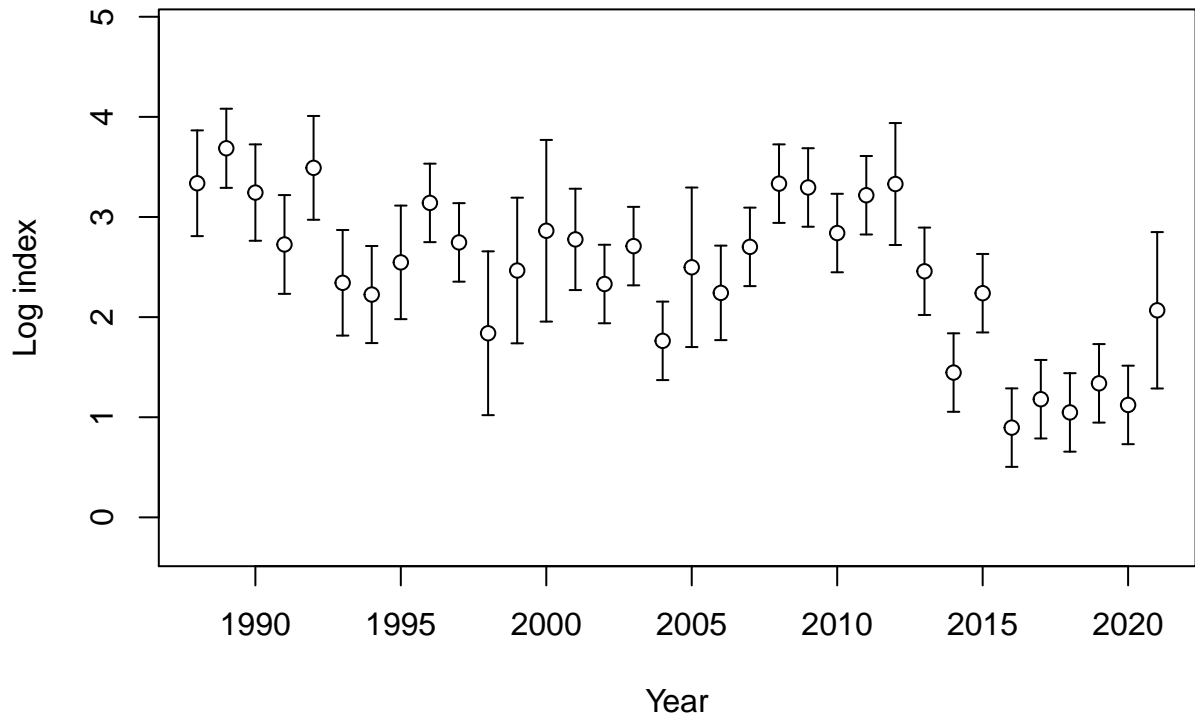
Index



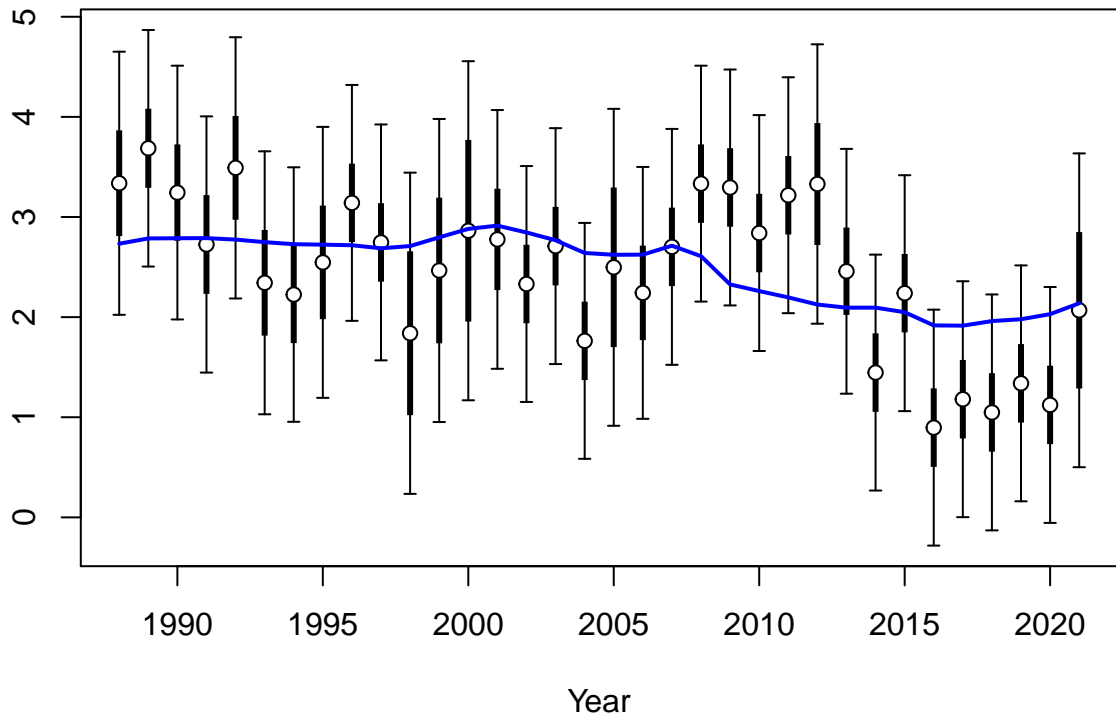
Index

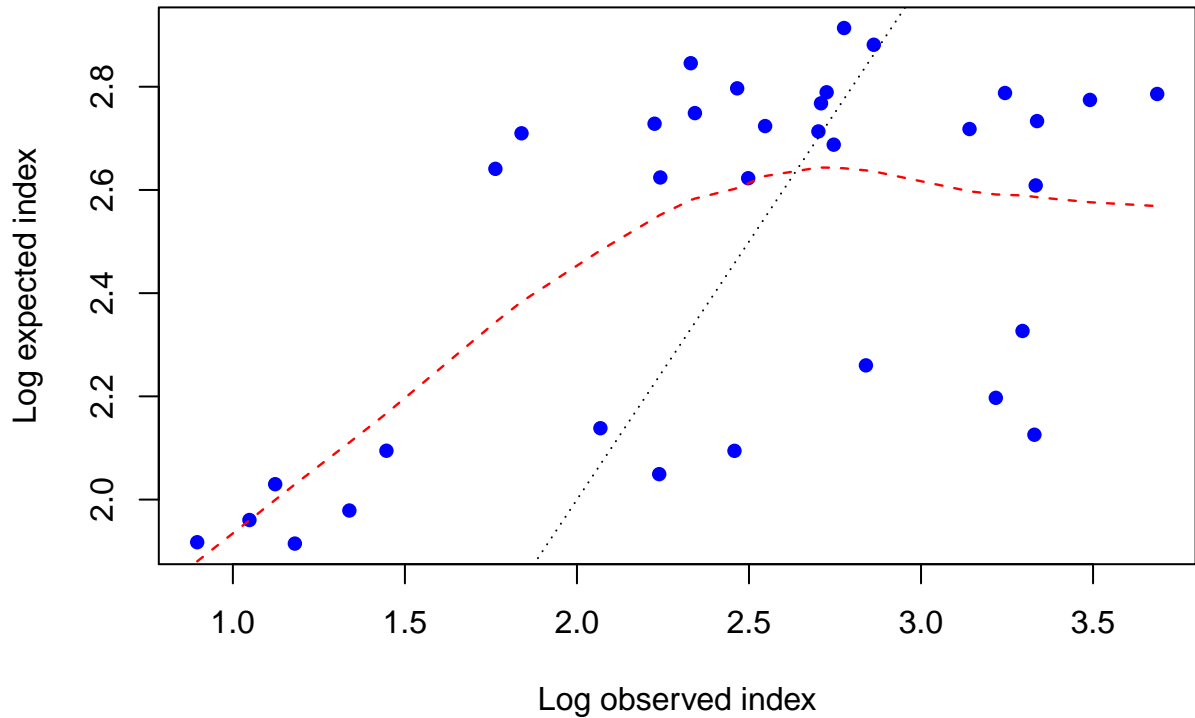


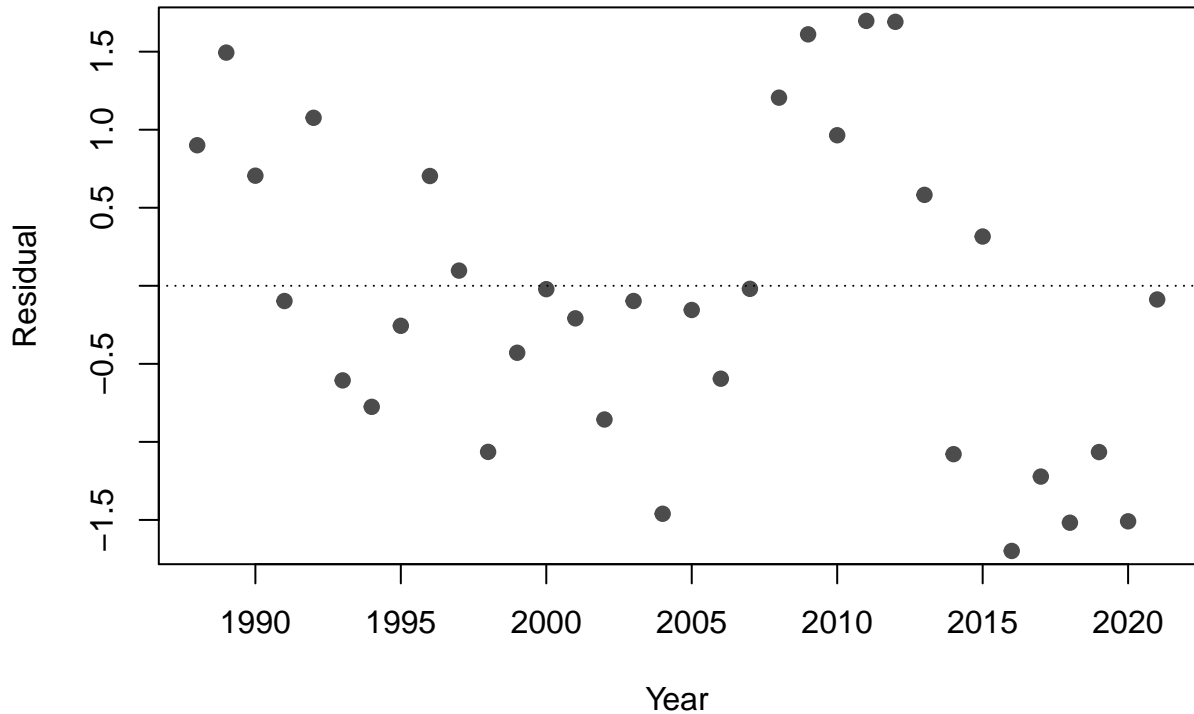




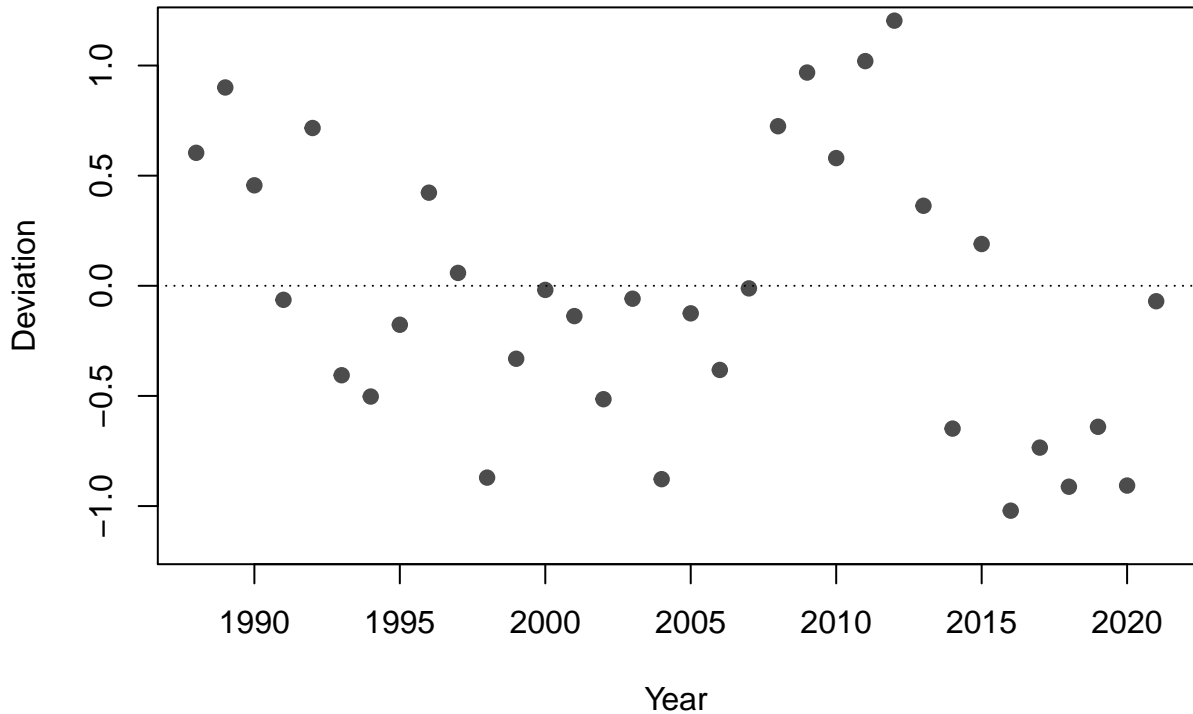
Log index

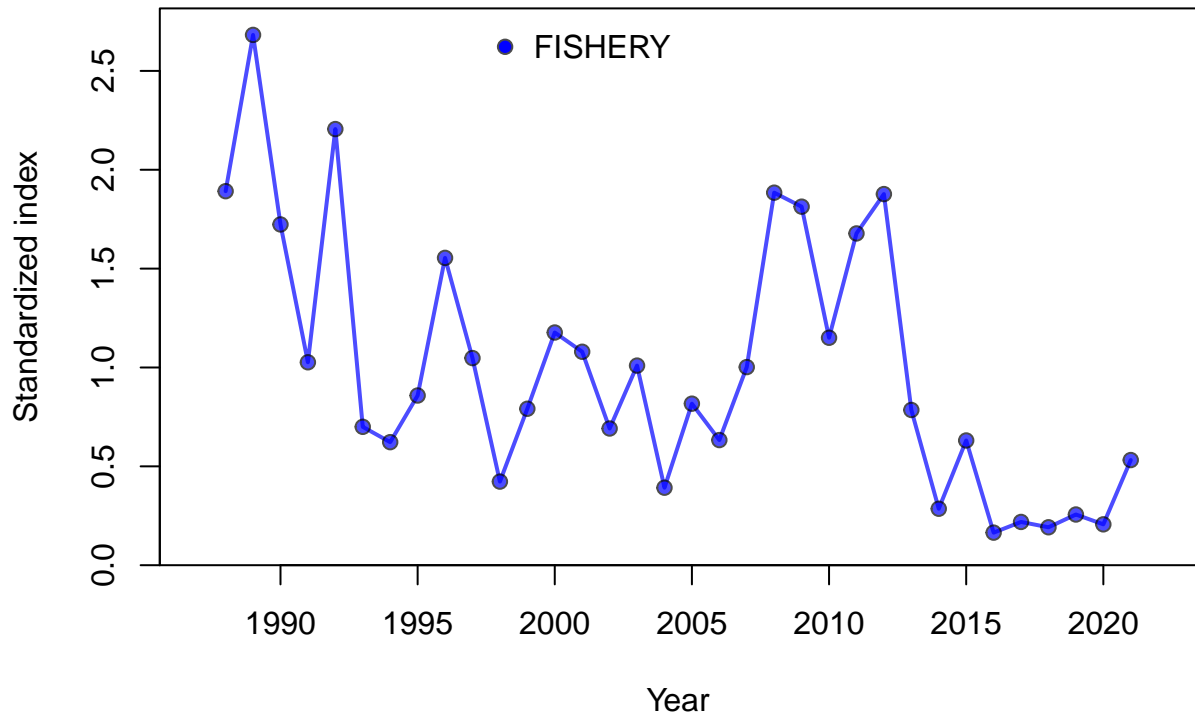


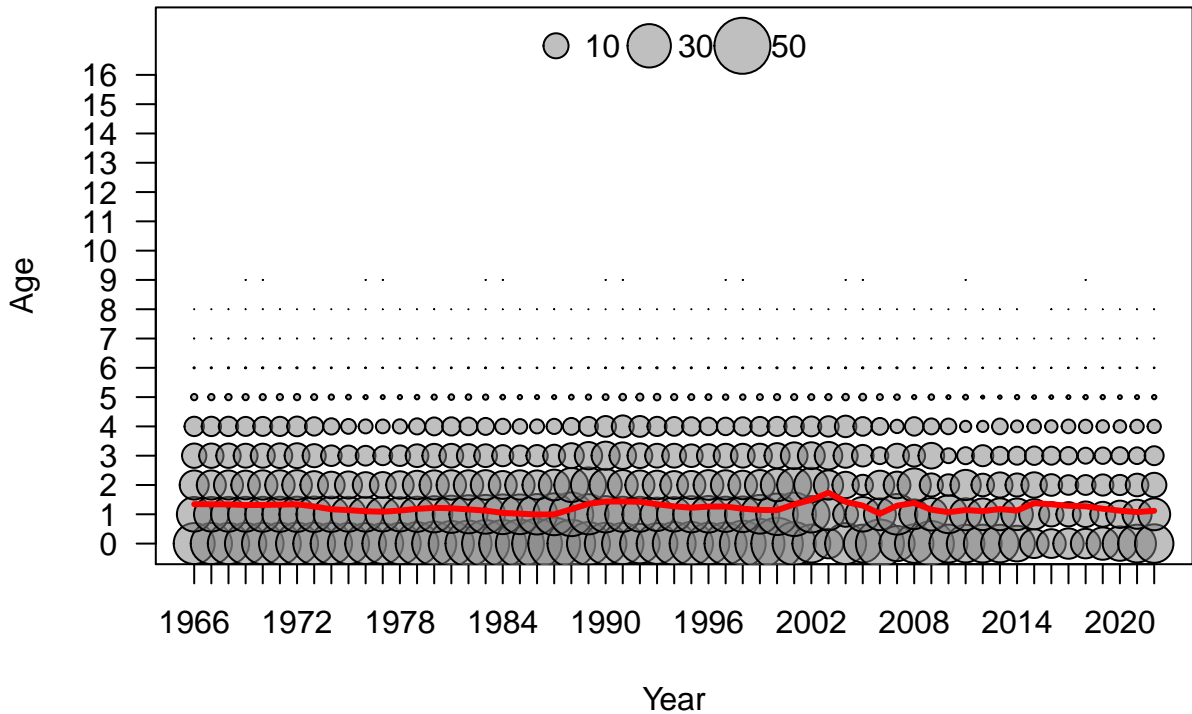




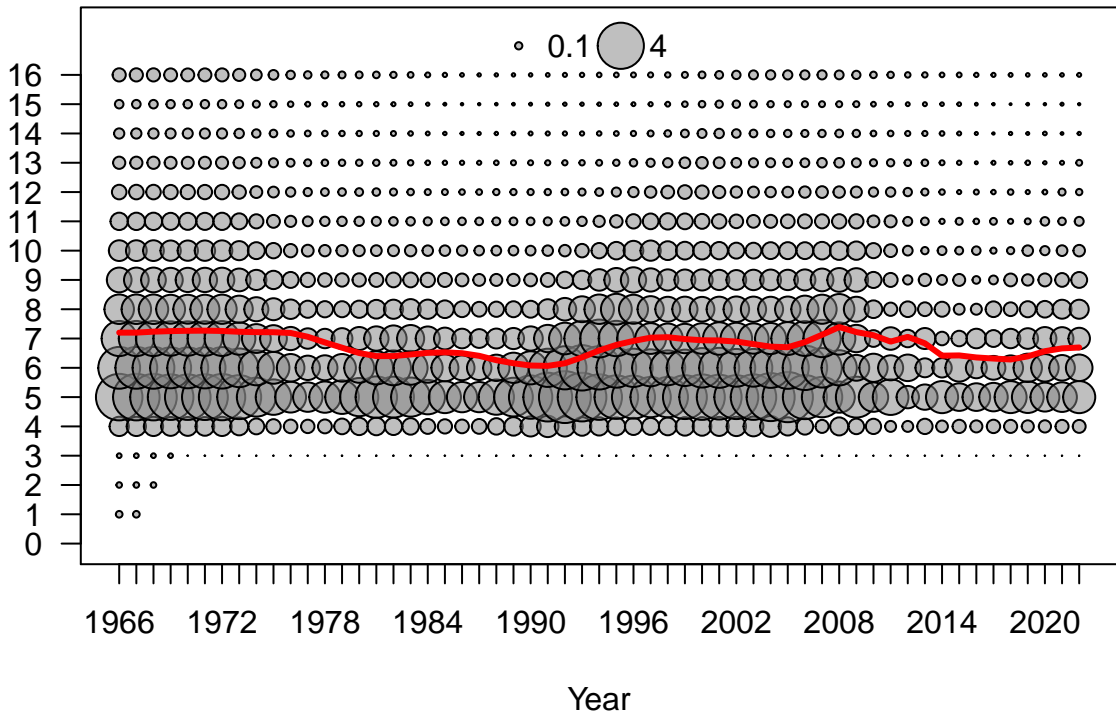


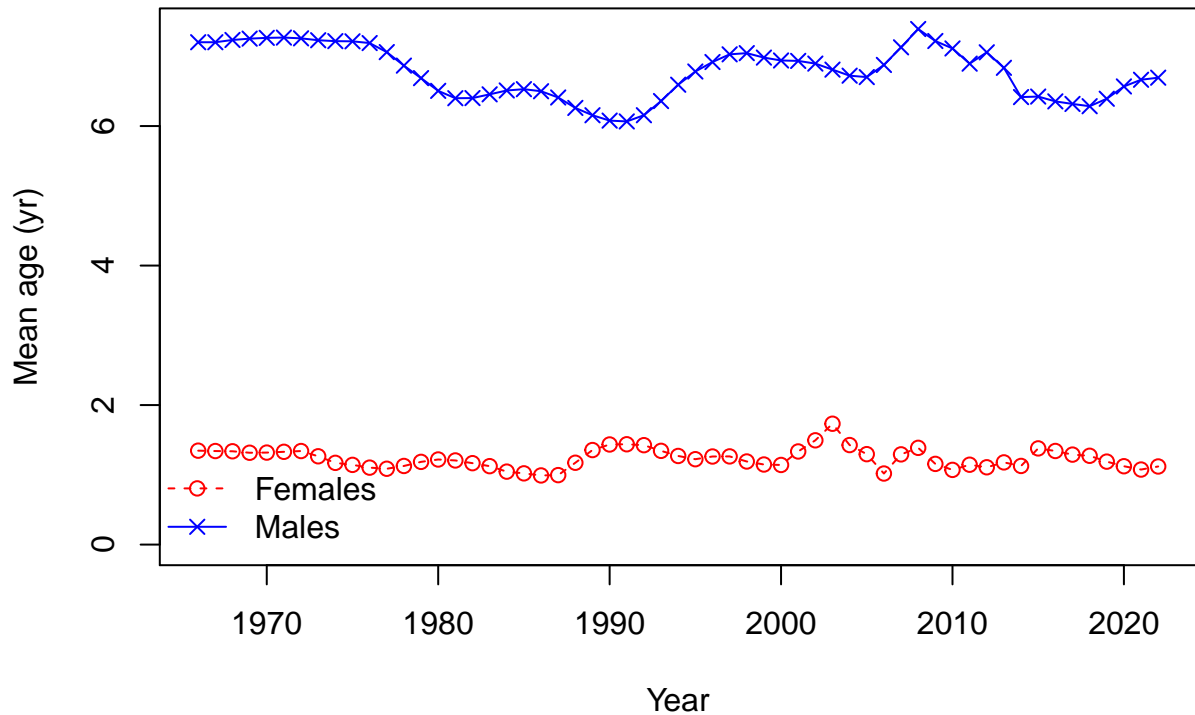




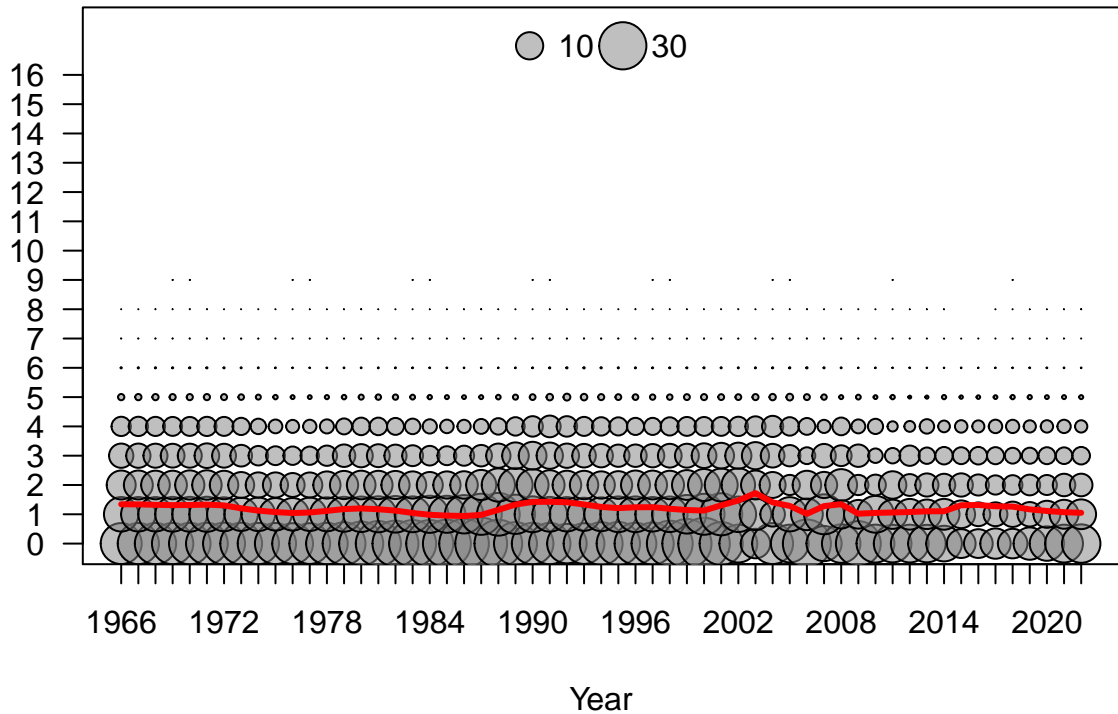


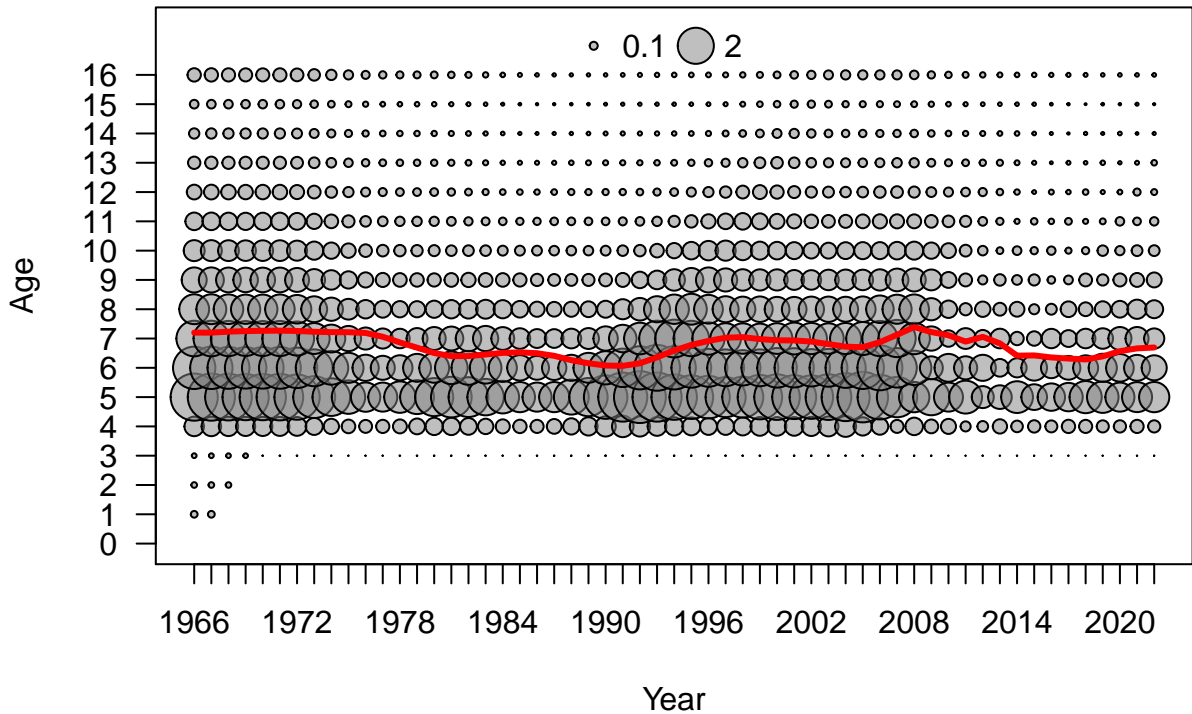
Age

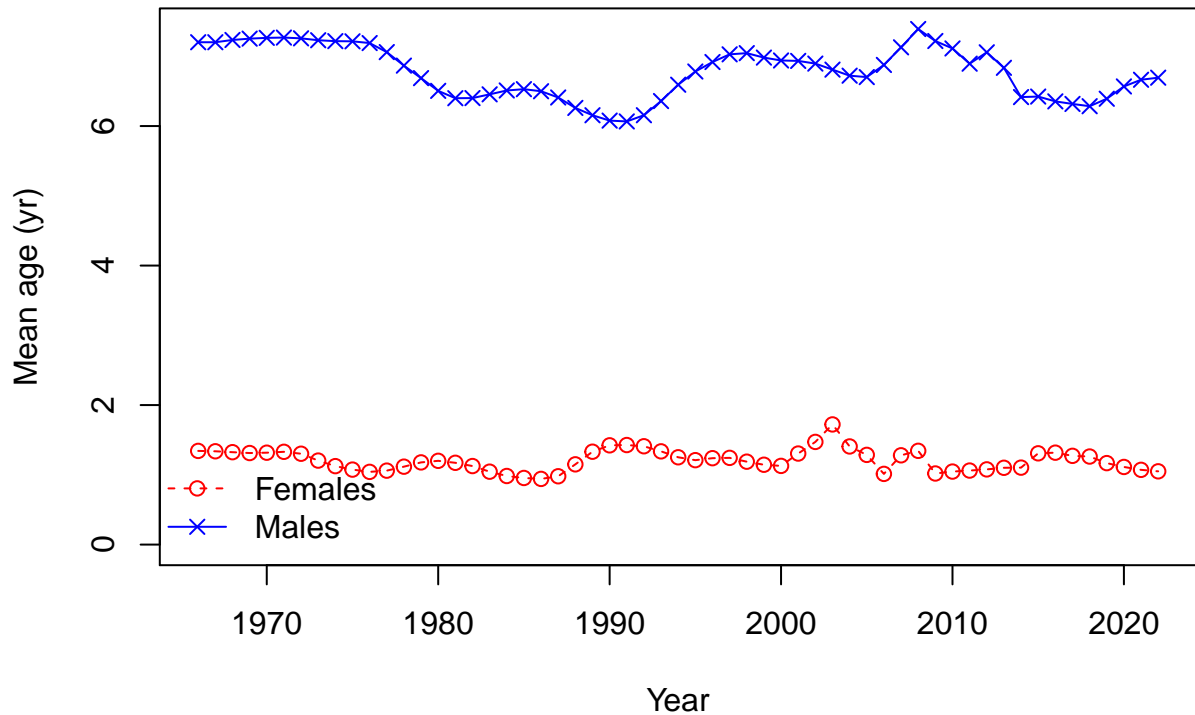




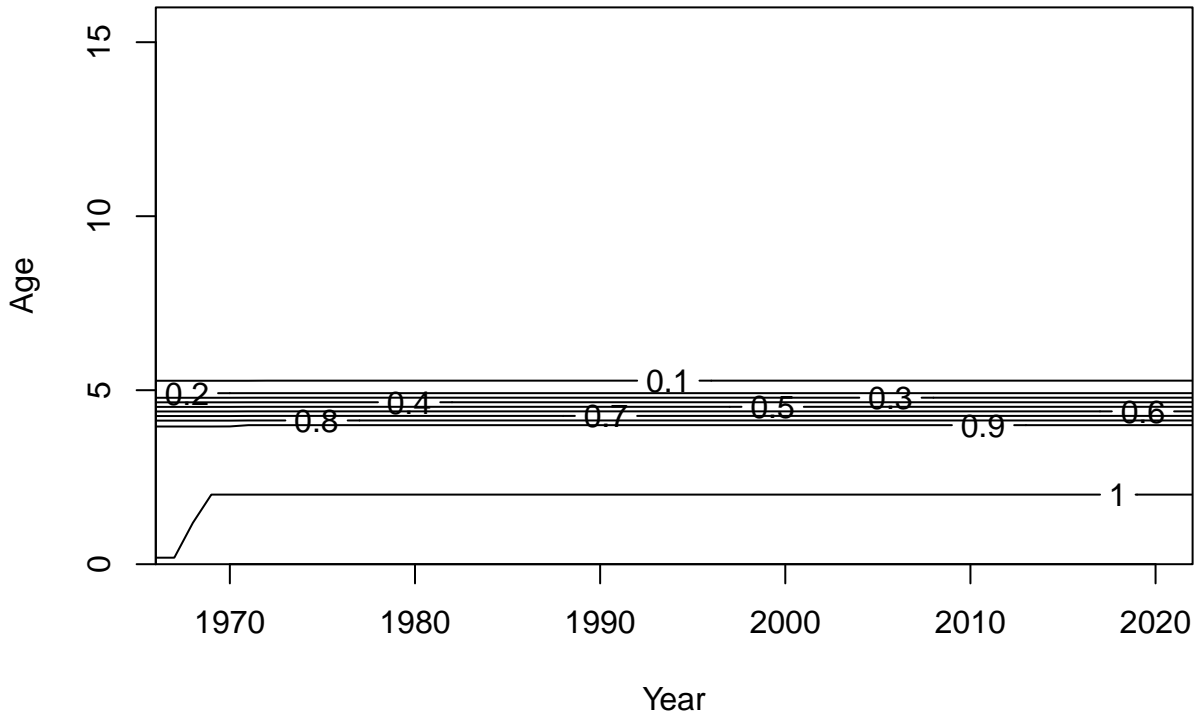
Age

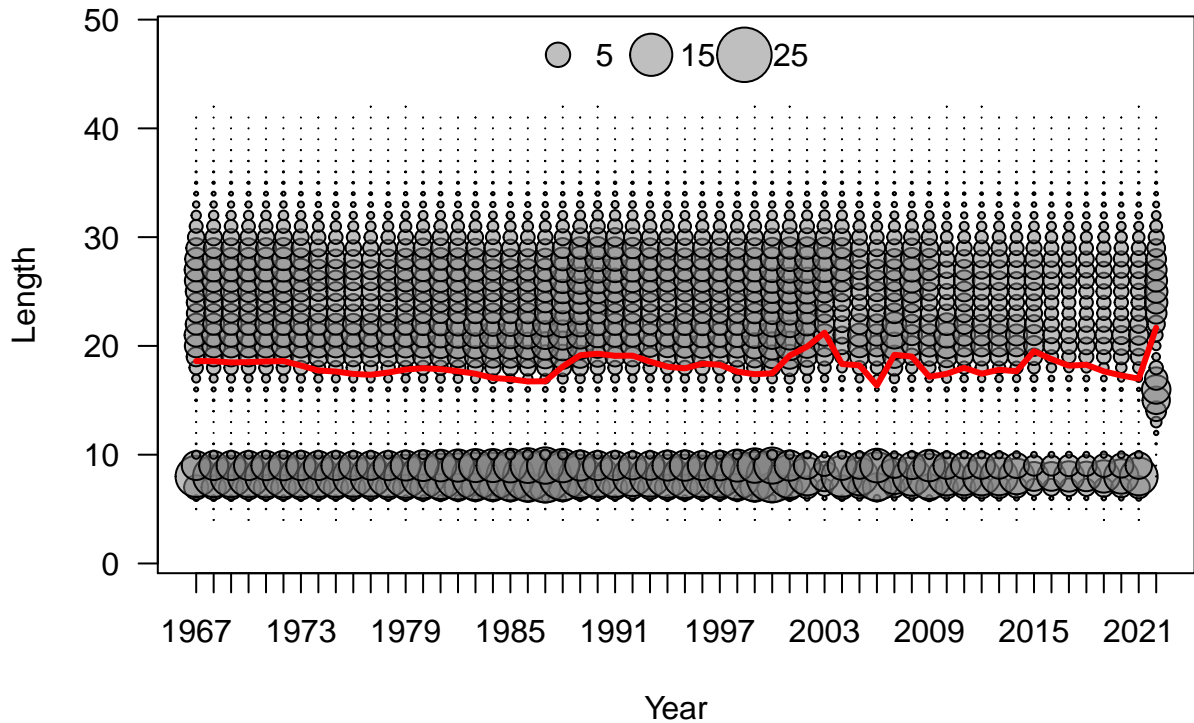


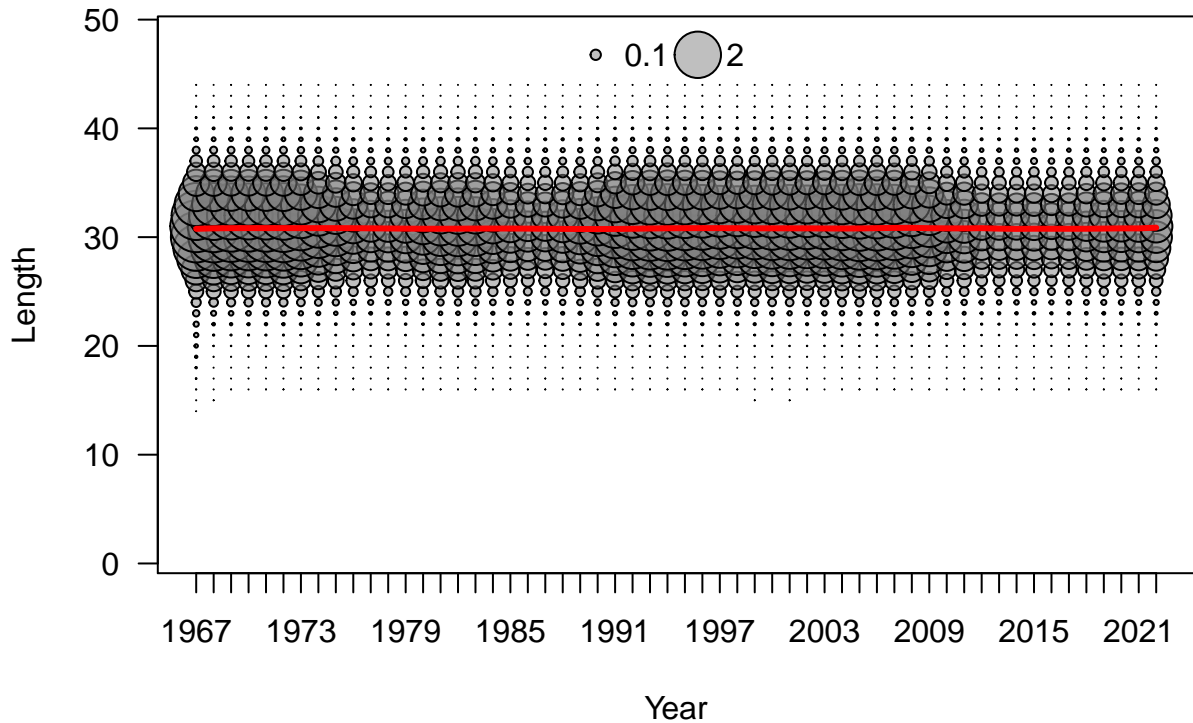


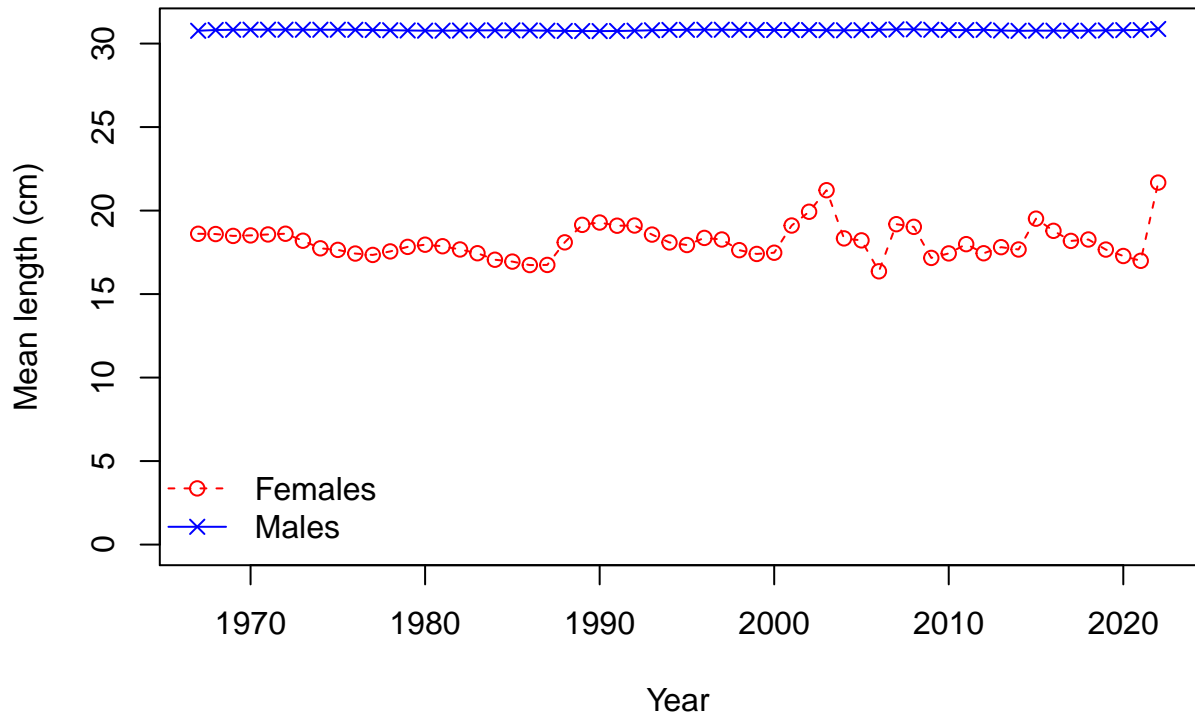


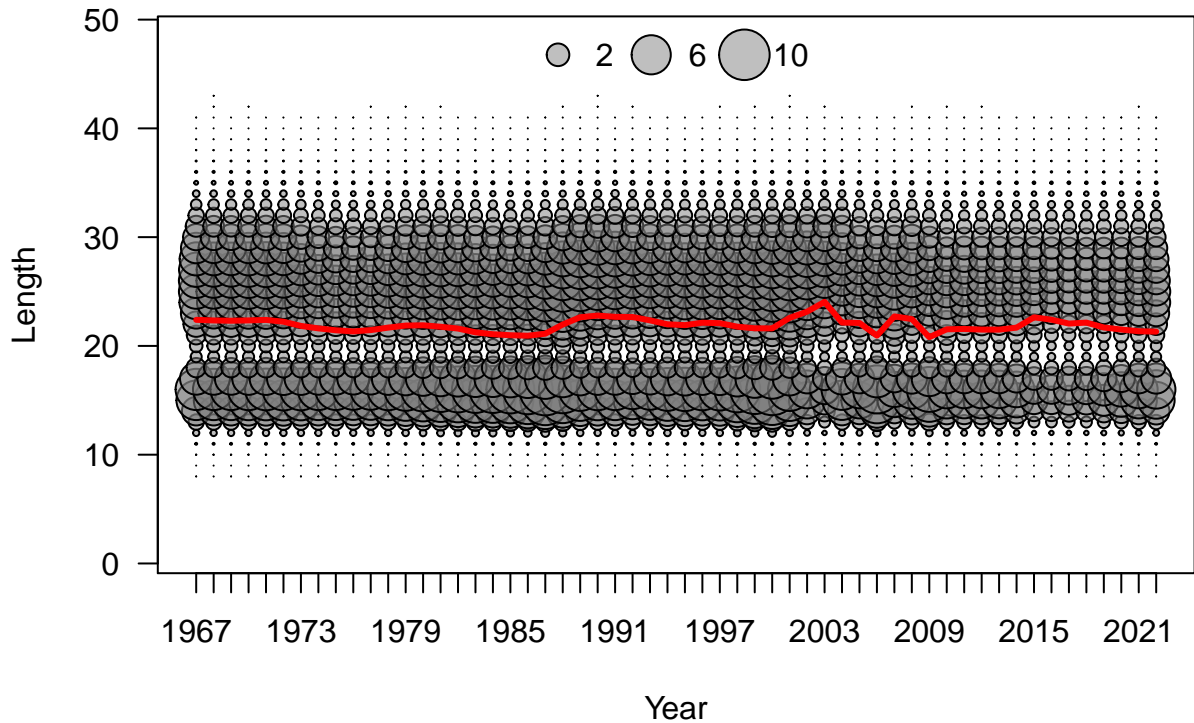


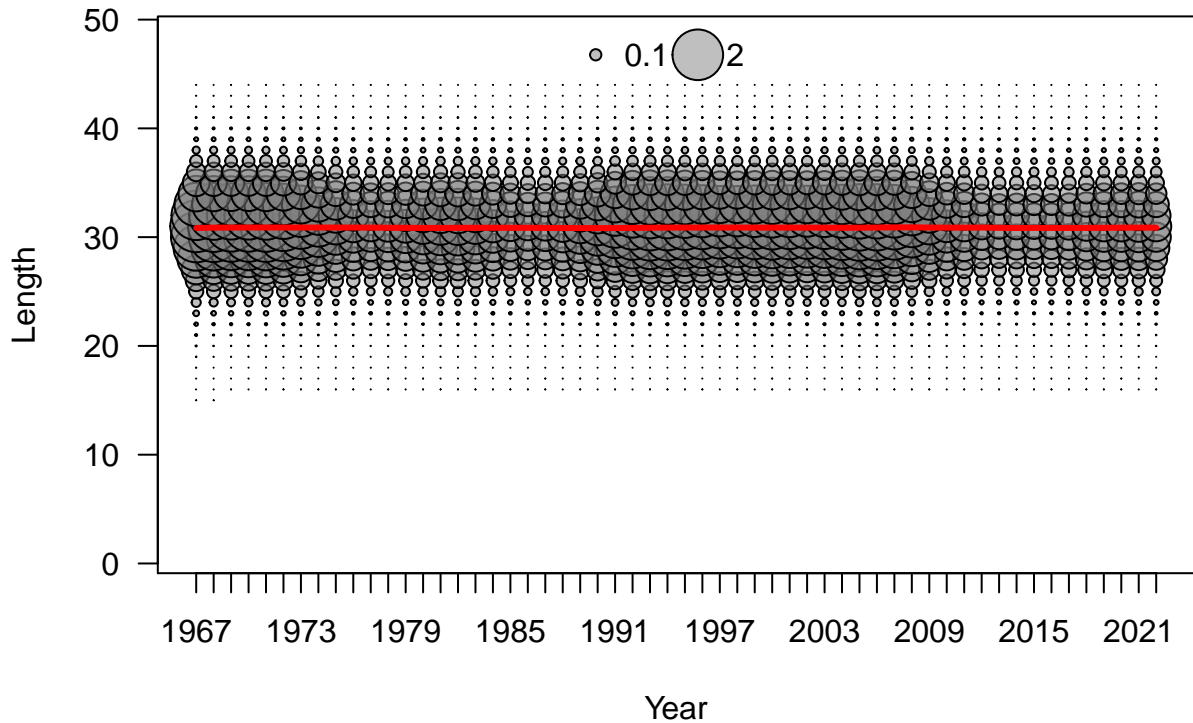


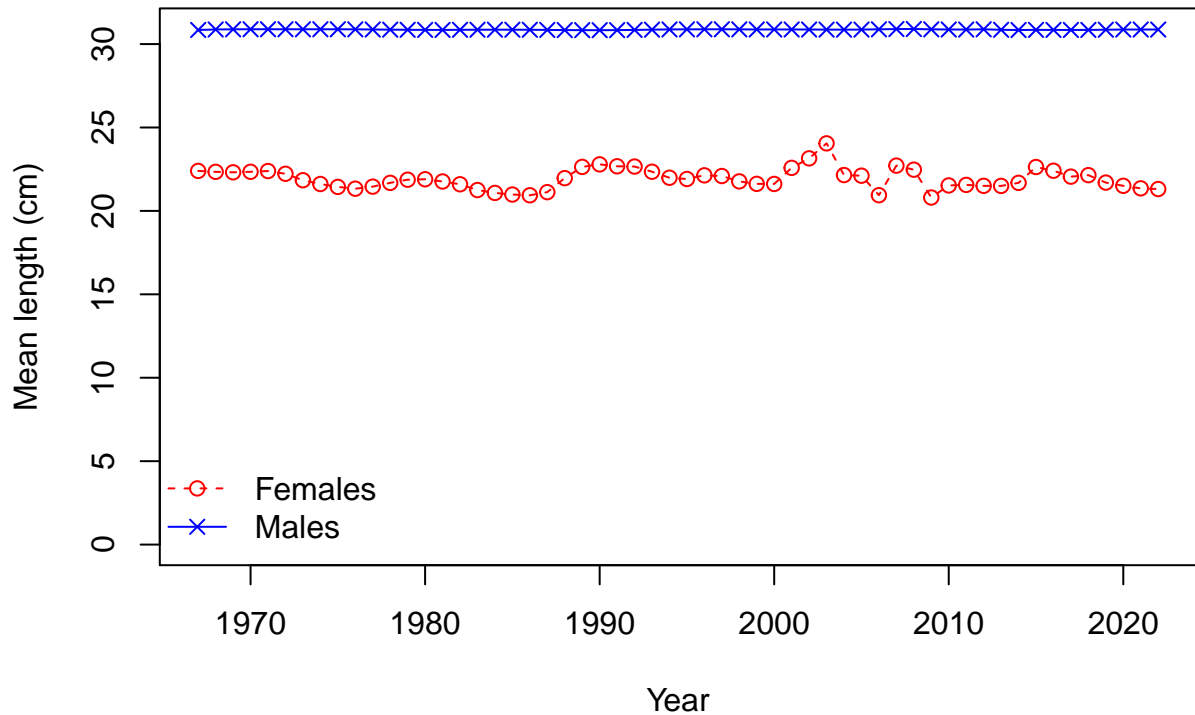


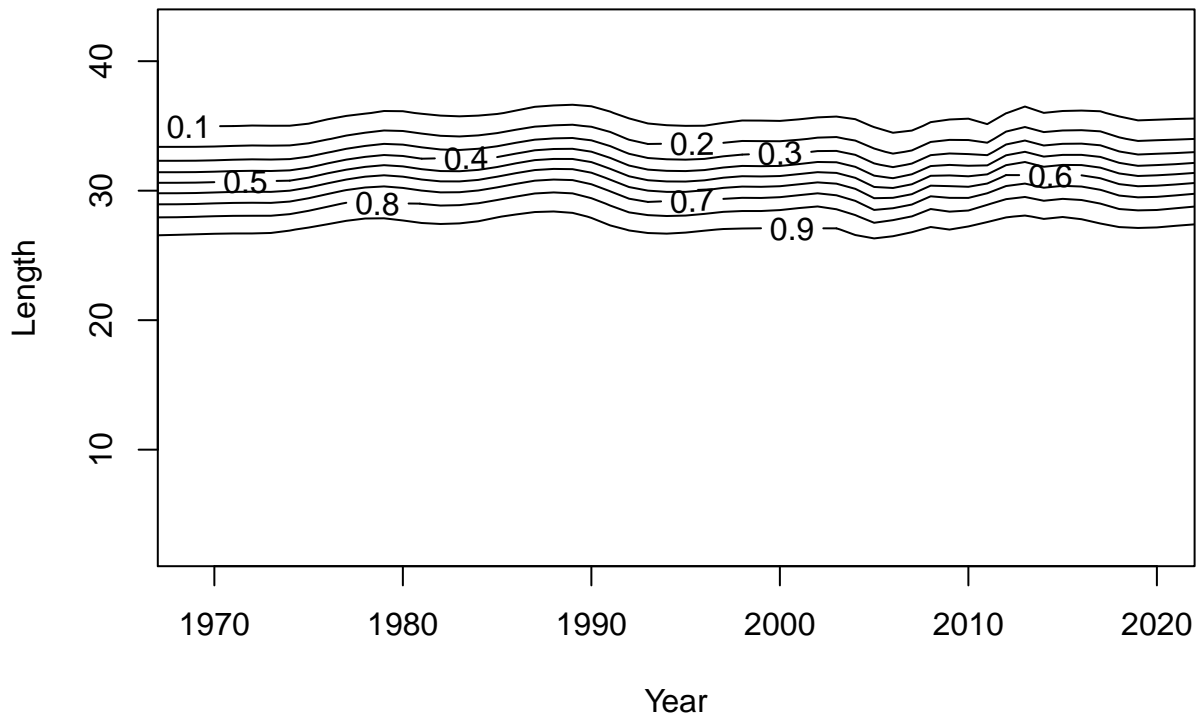




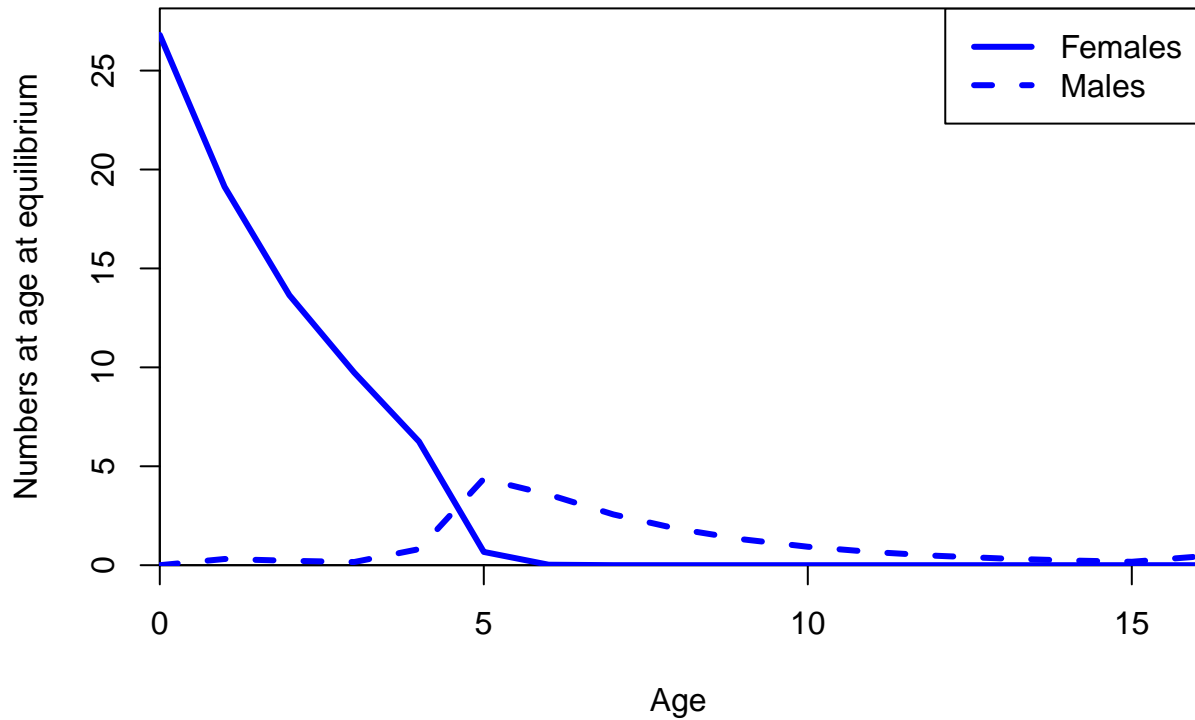






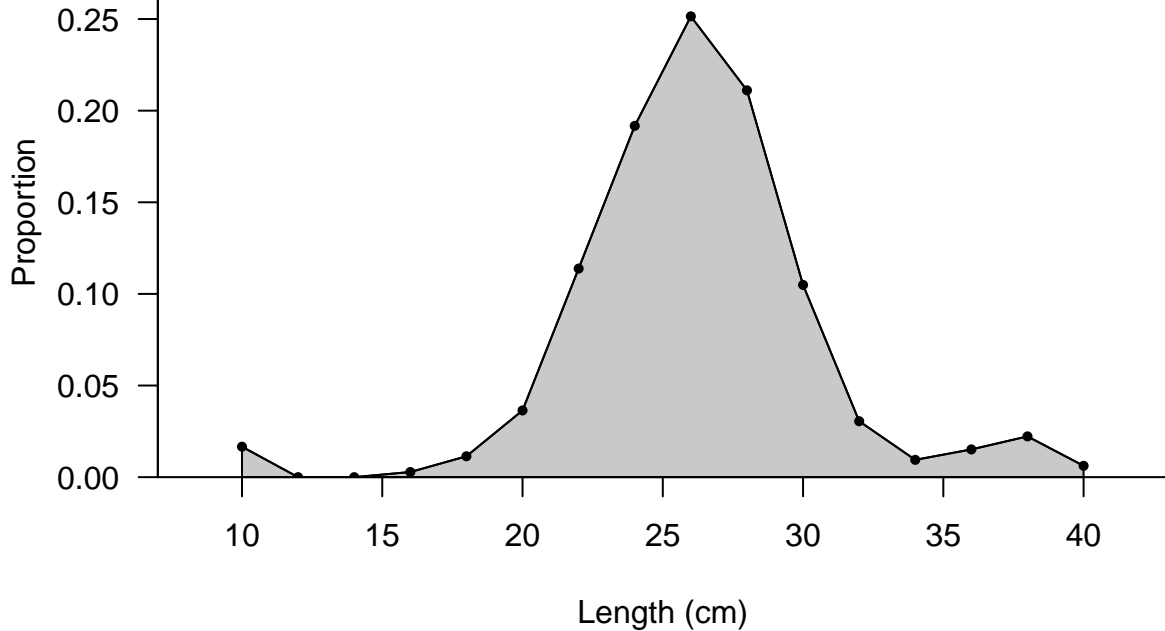


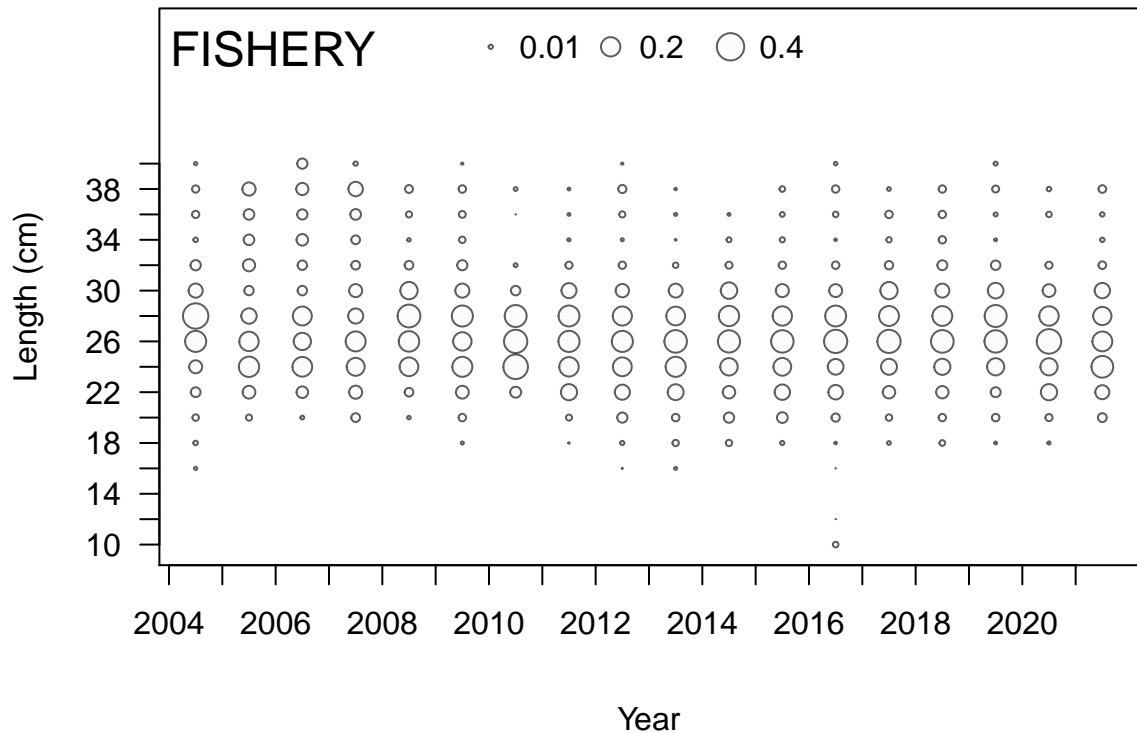


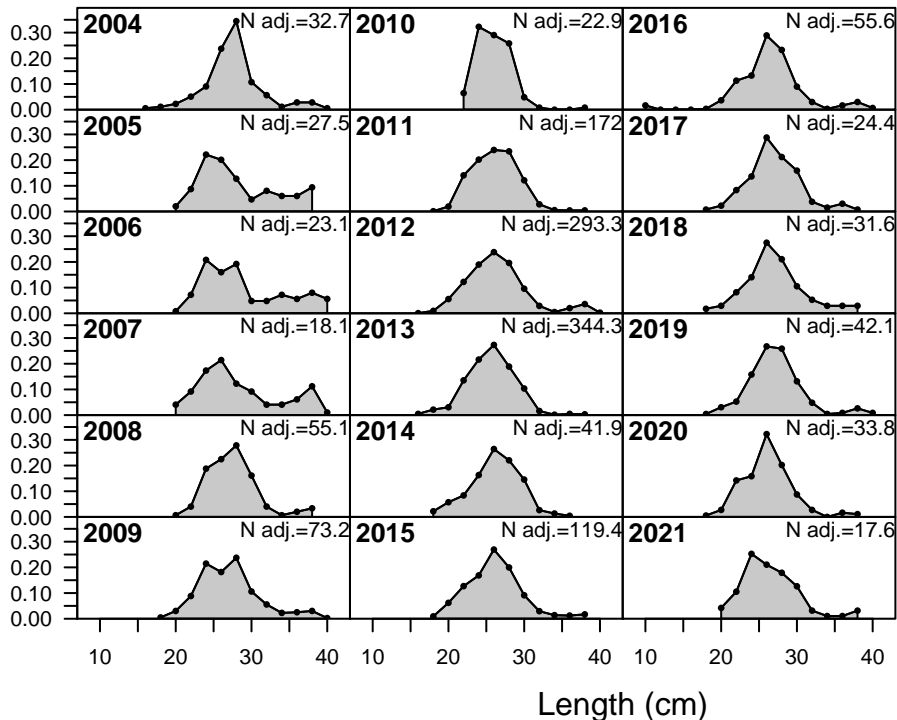


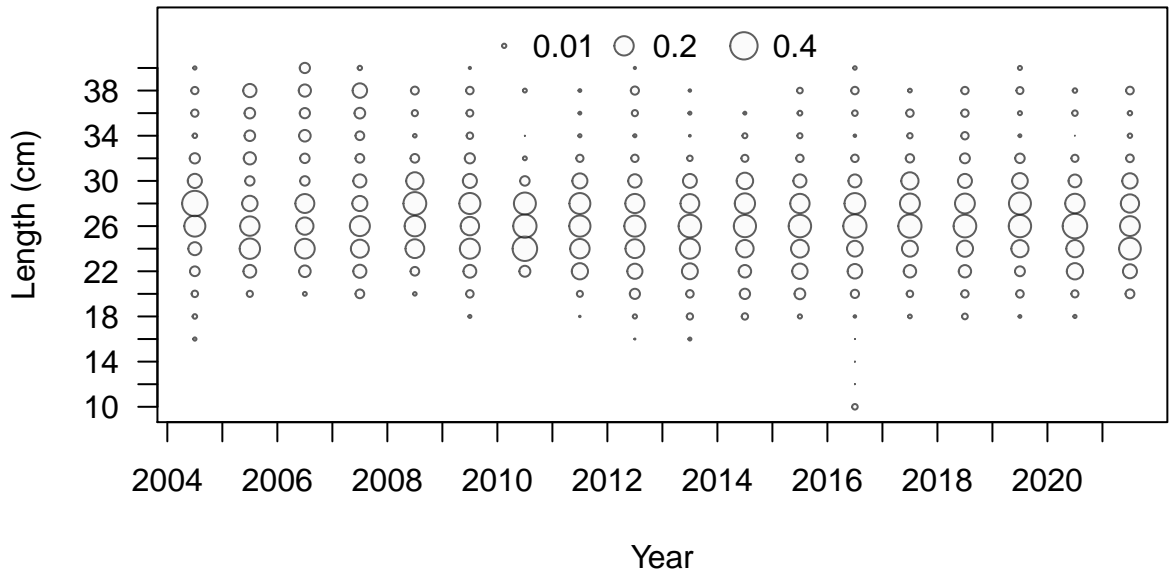
**FISHERY**

Sum of N adj.=1428.7

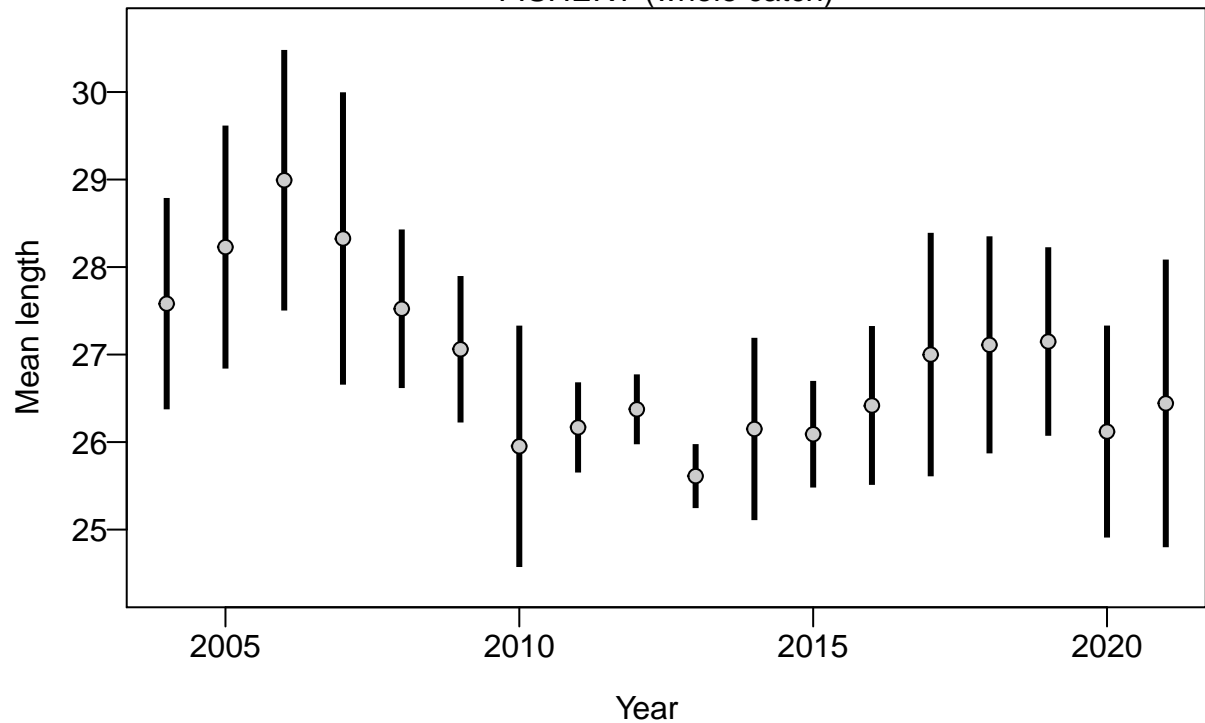


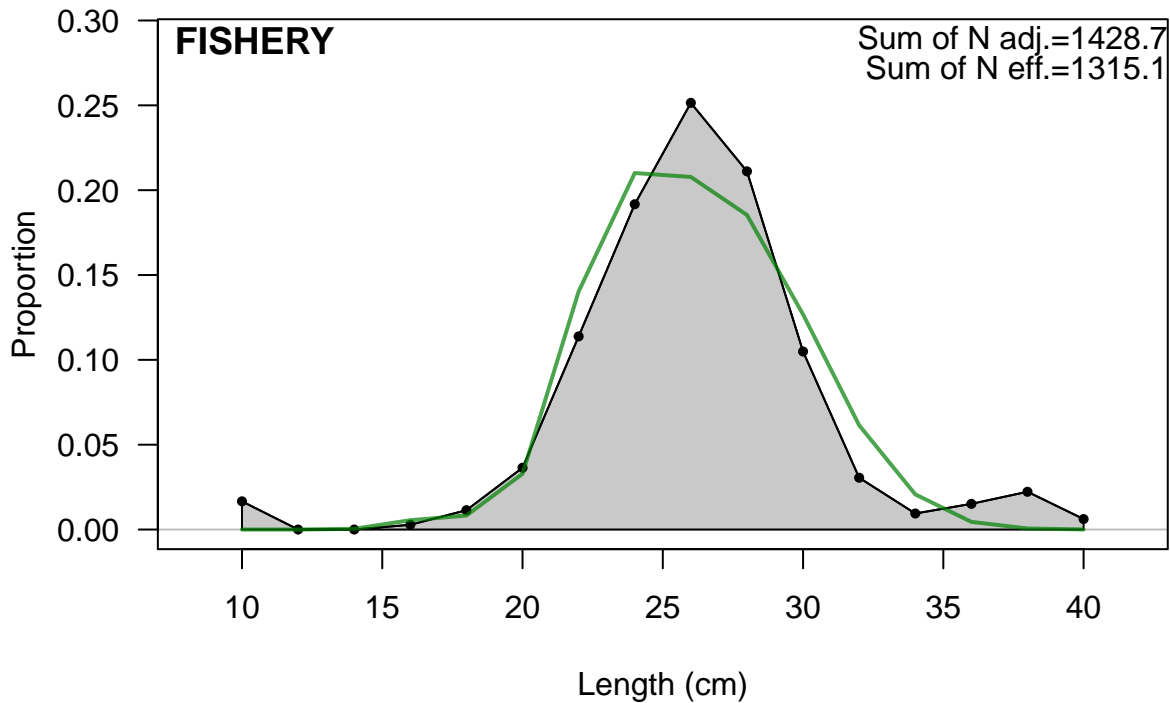


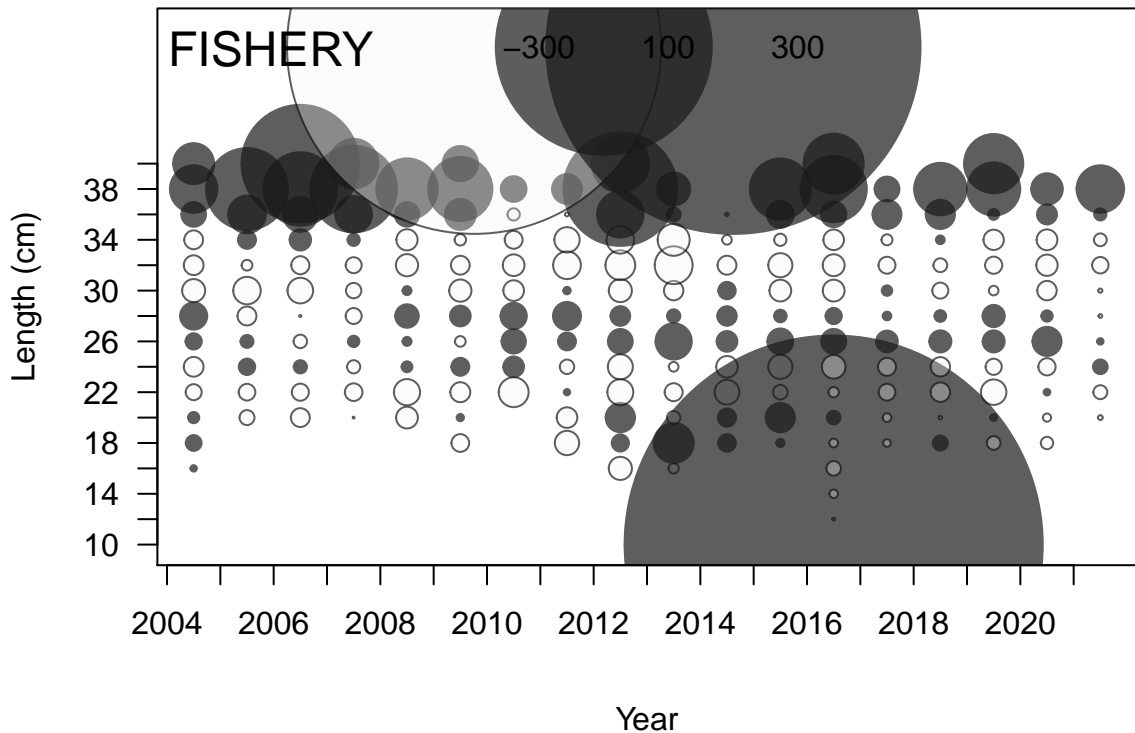




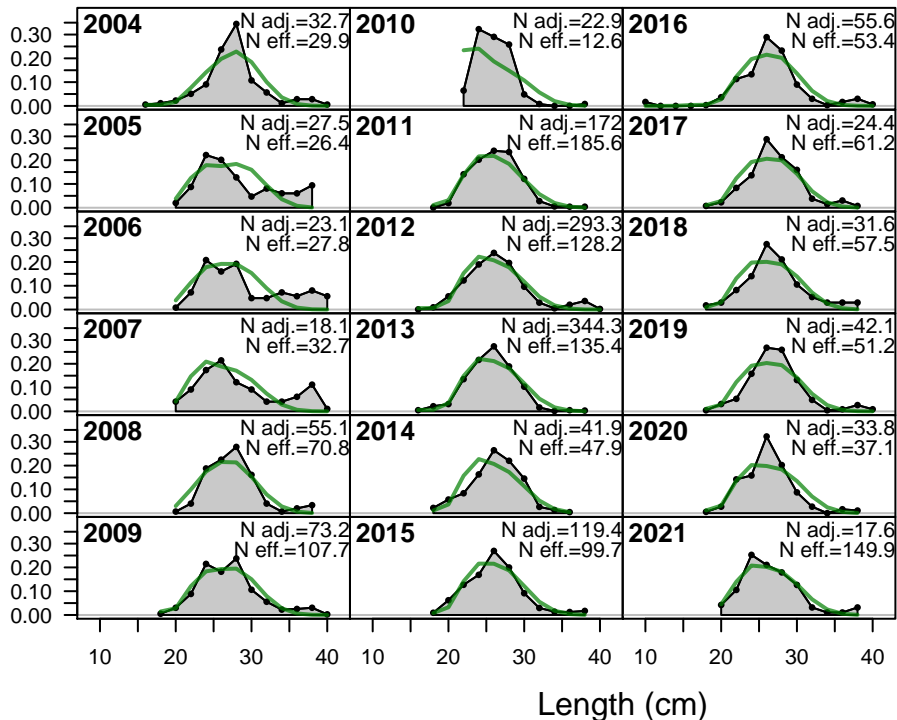
## FISHERY (whole catch)

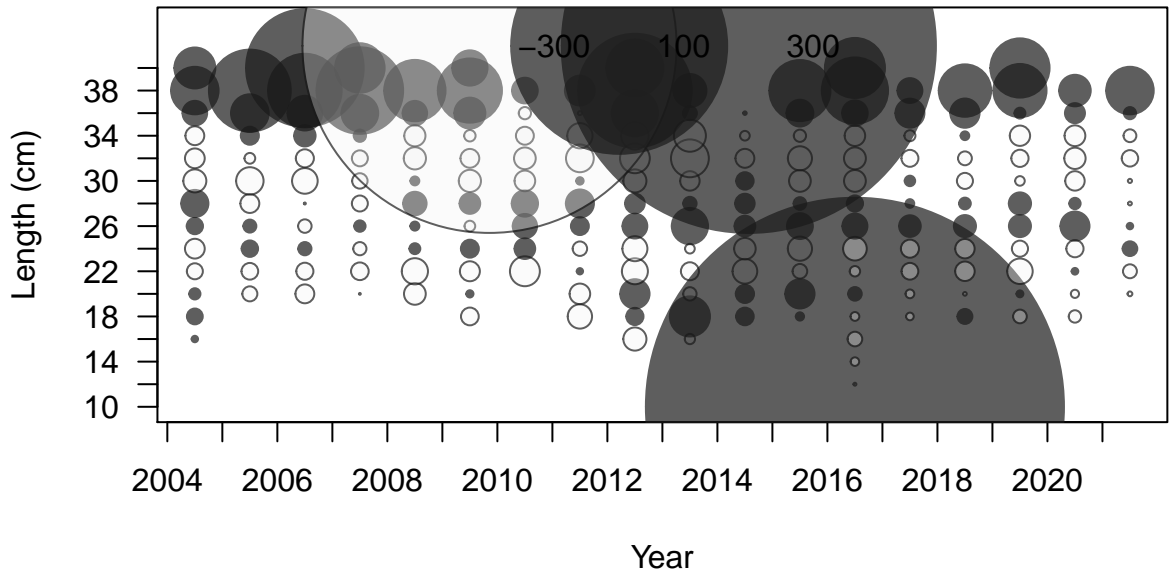




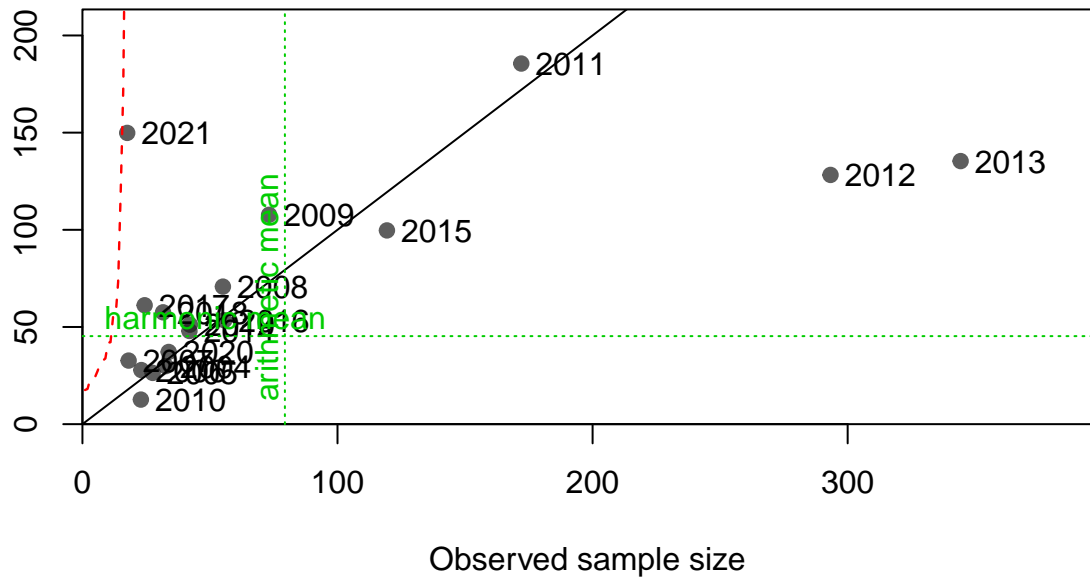




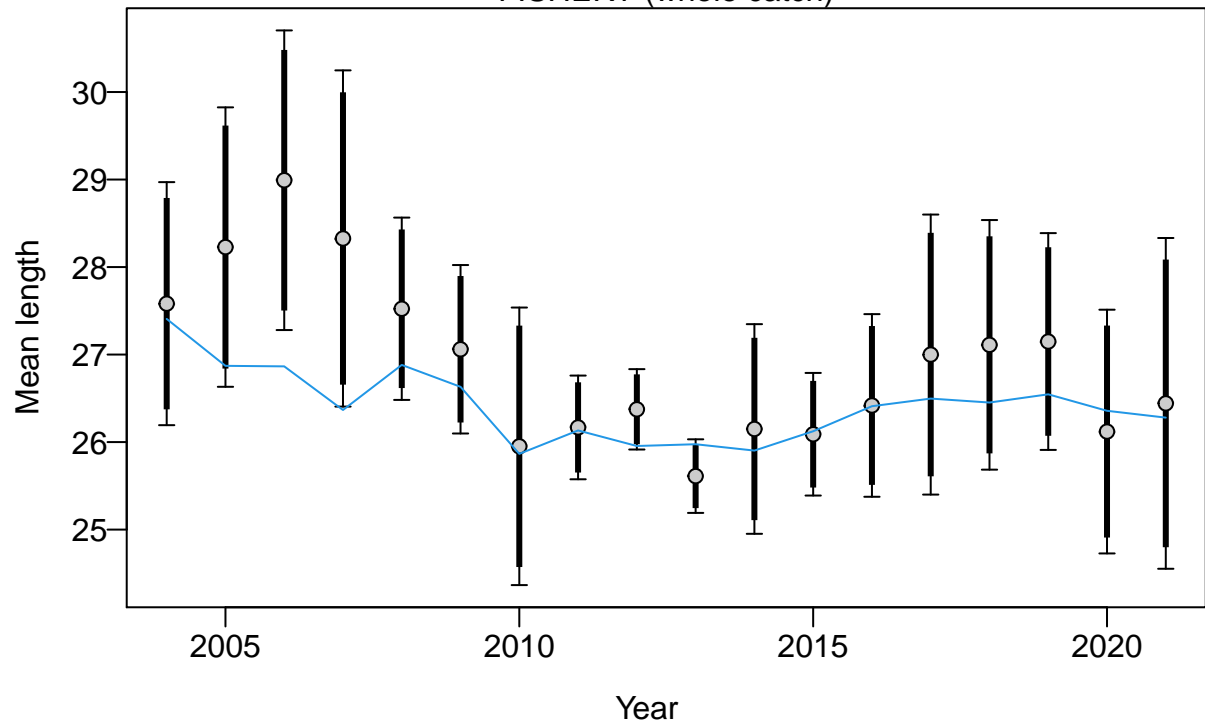


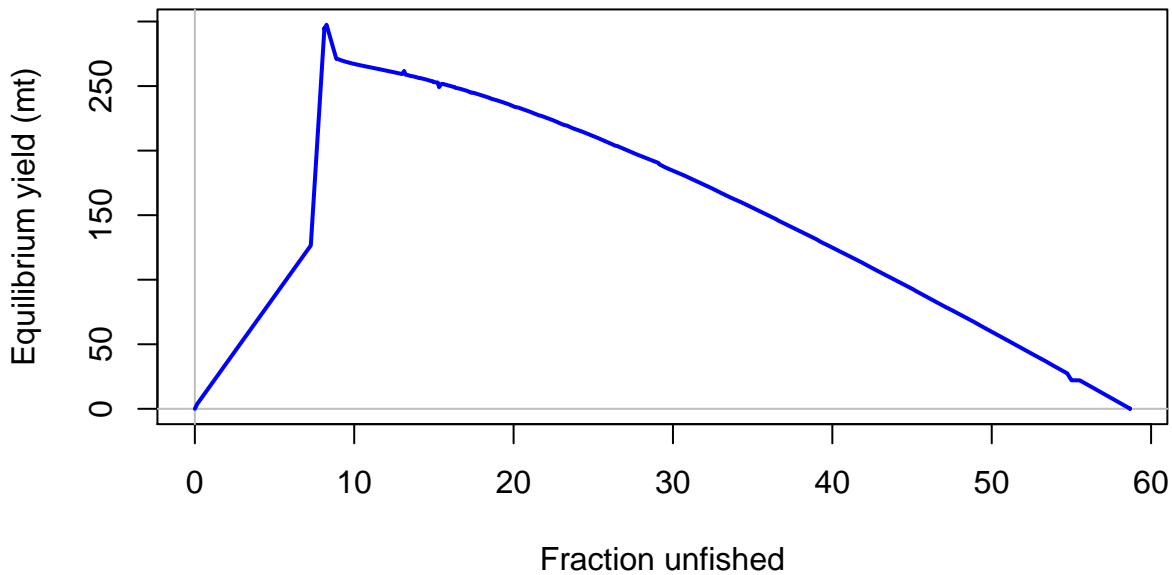


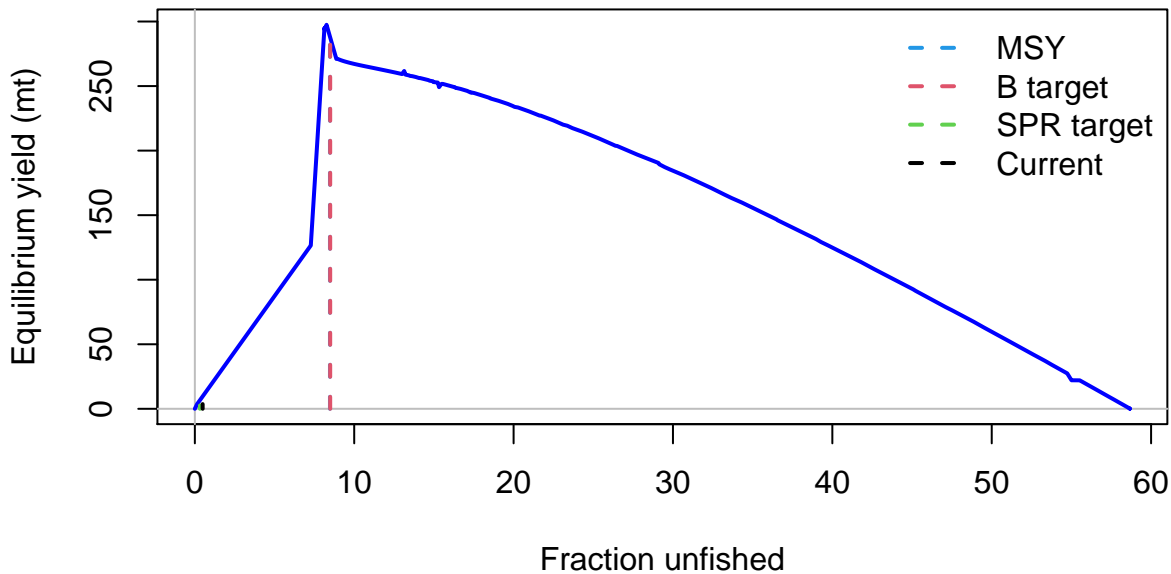
Effective sample size

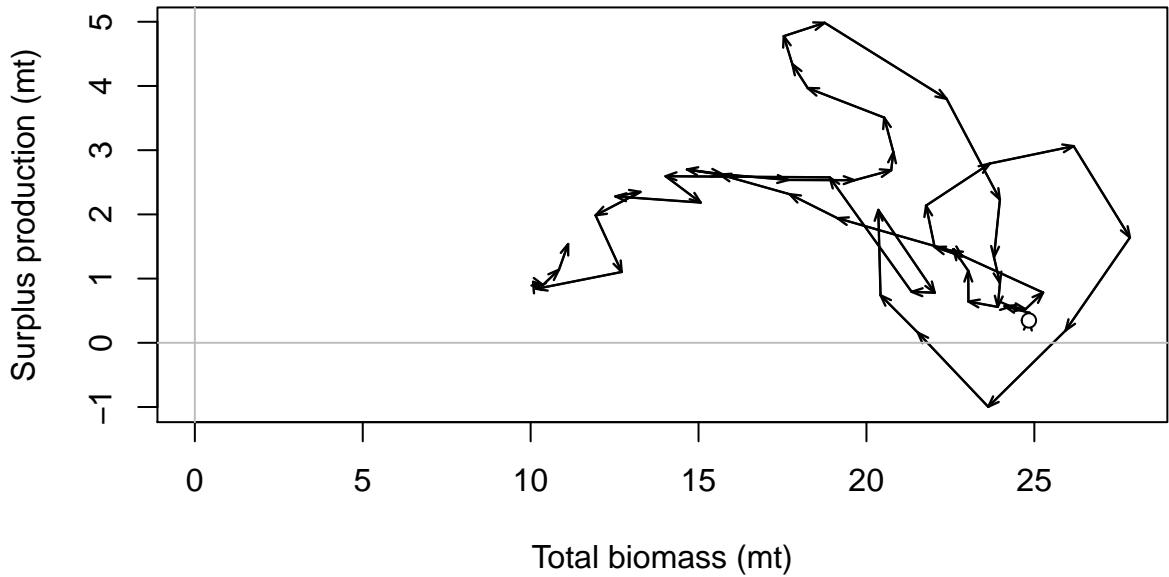


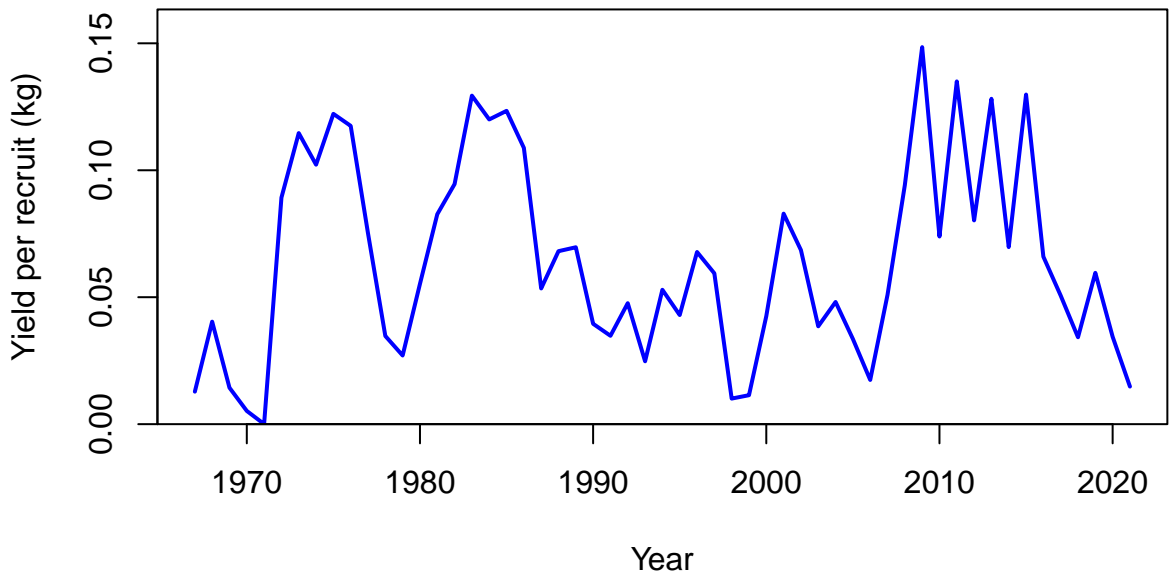
## FISHERY (whole catch)



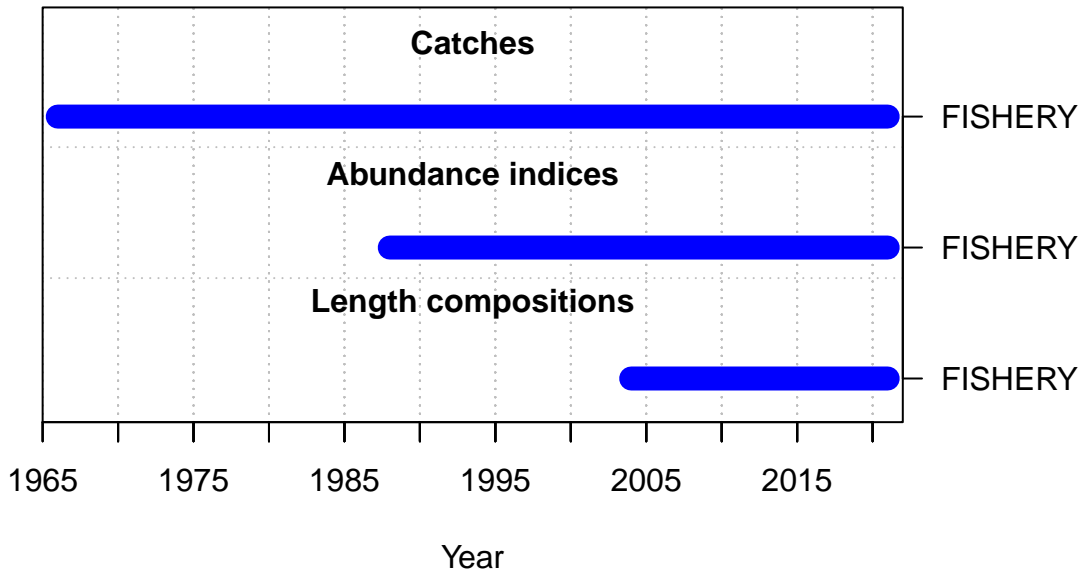


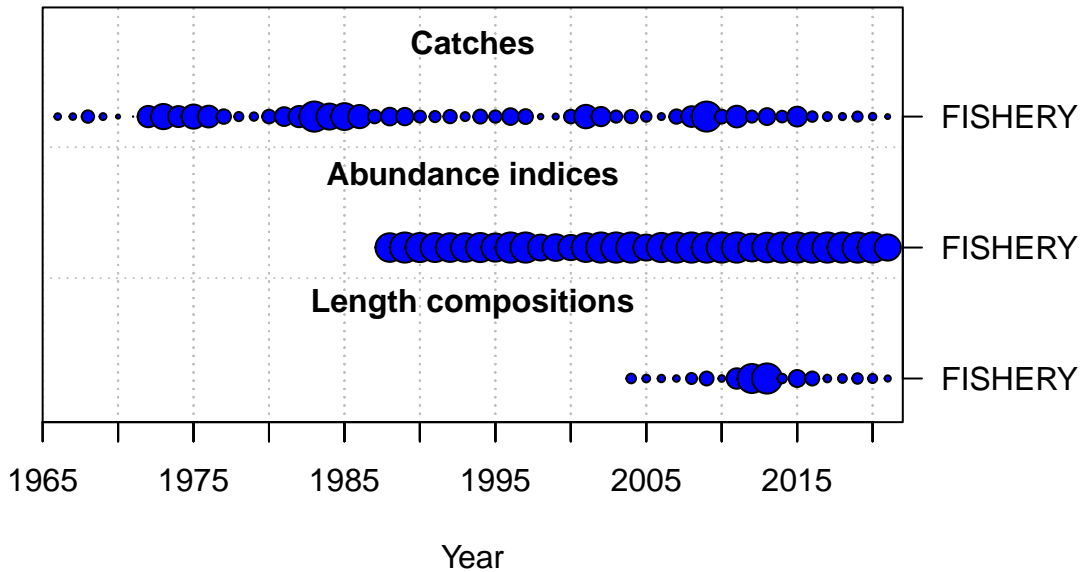








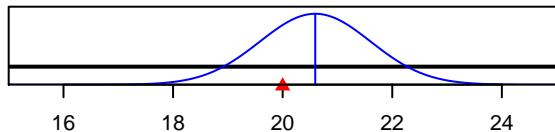




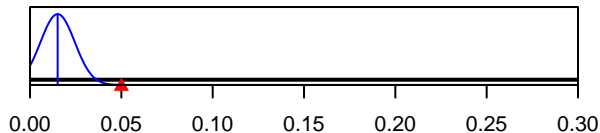
SR\_LN(R0)



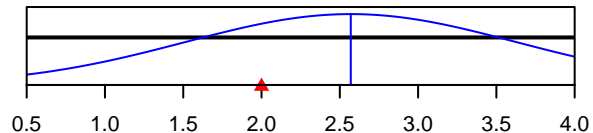
Size\_inflection\_FISHERY(1)



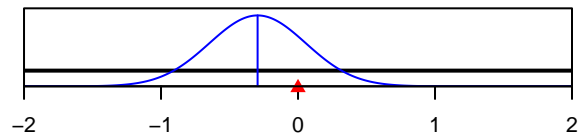
InitF\_seas\_1flt\_1FISHERY



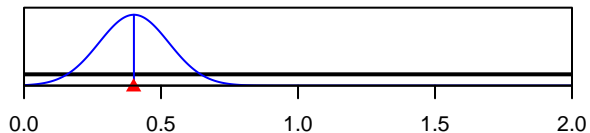
Size\_95%width\_FISHERY(1)



LnQ\_base\_FISHERY(1)



Q\_extraSD\_FISHERY(1)



Parameter value