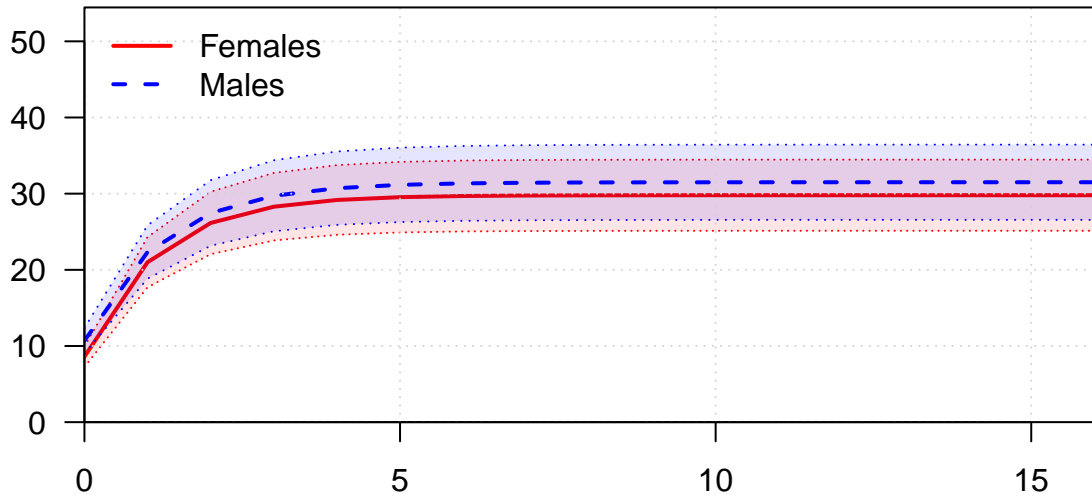
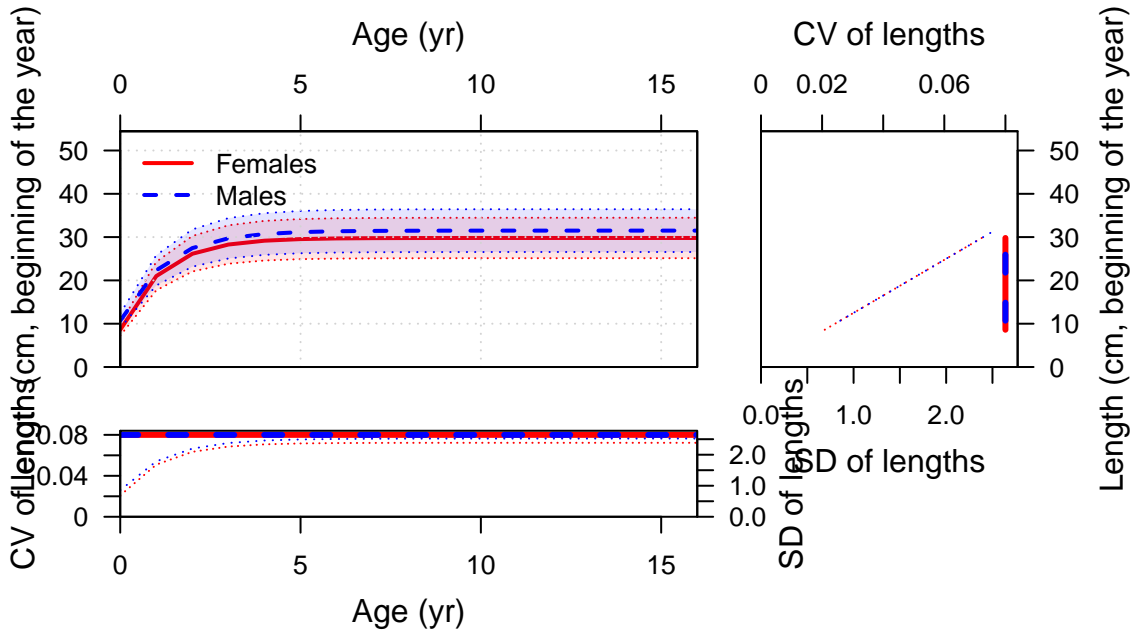


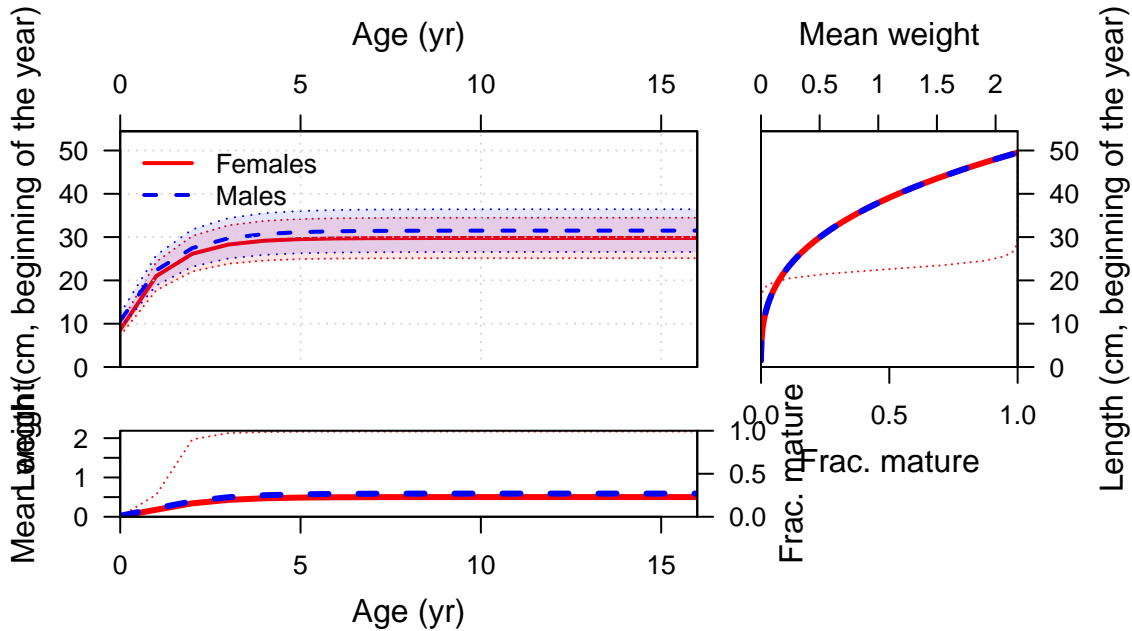
Plots created using the 'r4ss' package in R
Stock Synthesis version: 3.30.19.0
StartTime: Wed Jul 20 15:59:08 2022
Data_File: data.ss
Control_File: control.ss

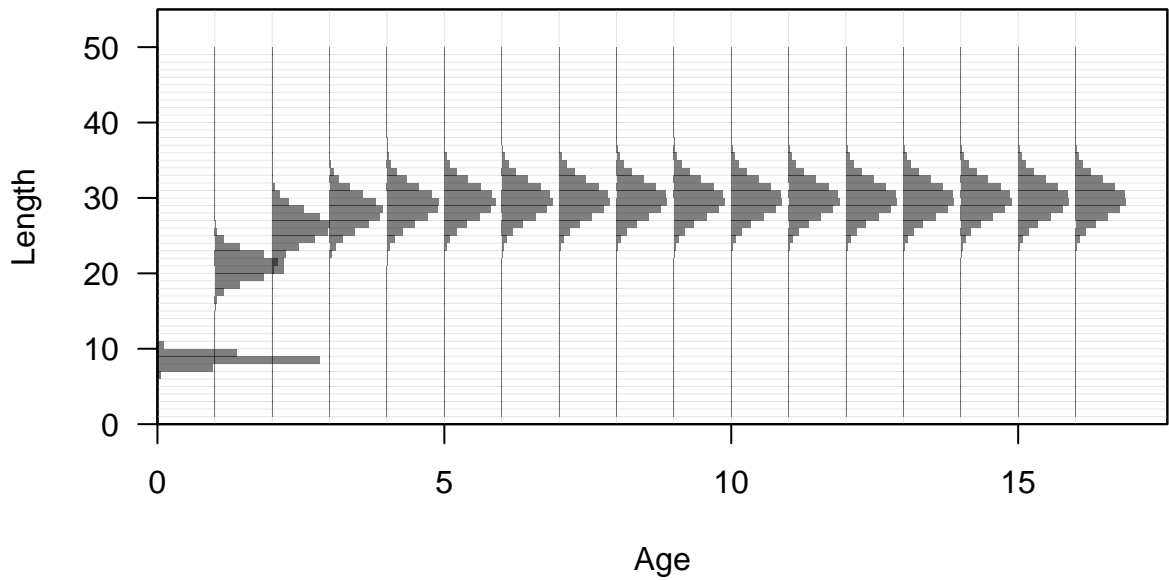
Length (cm, beginning of the year)

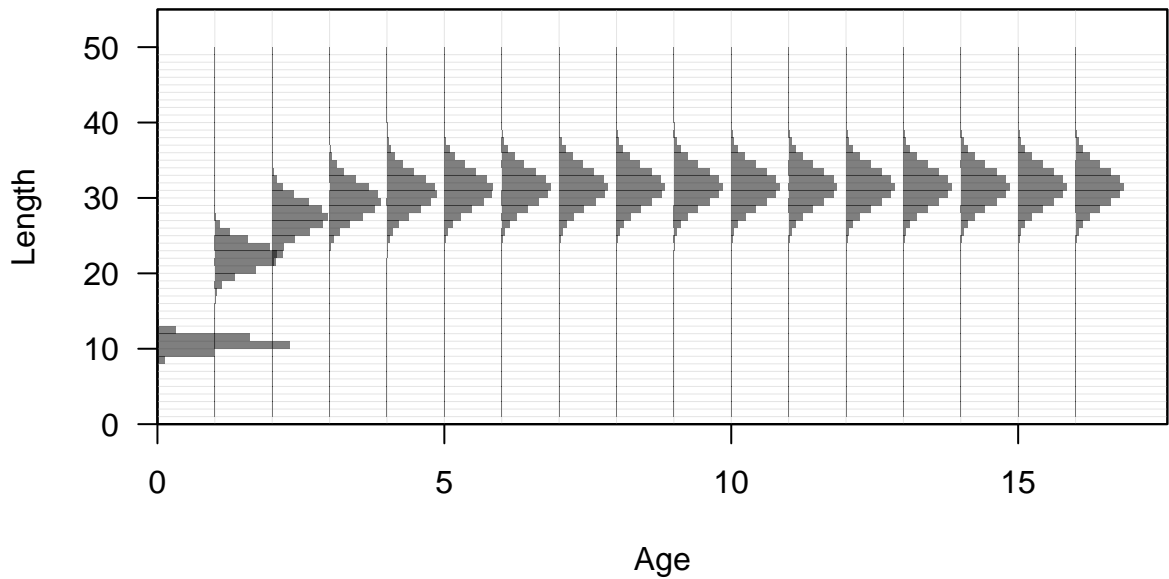


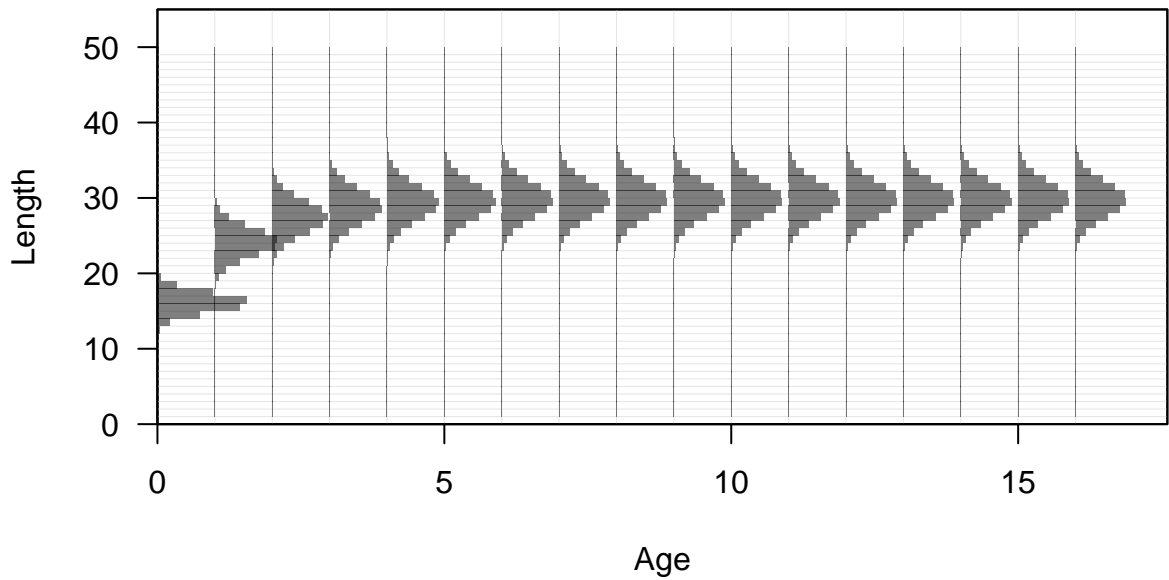
Age (yr)

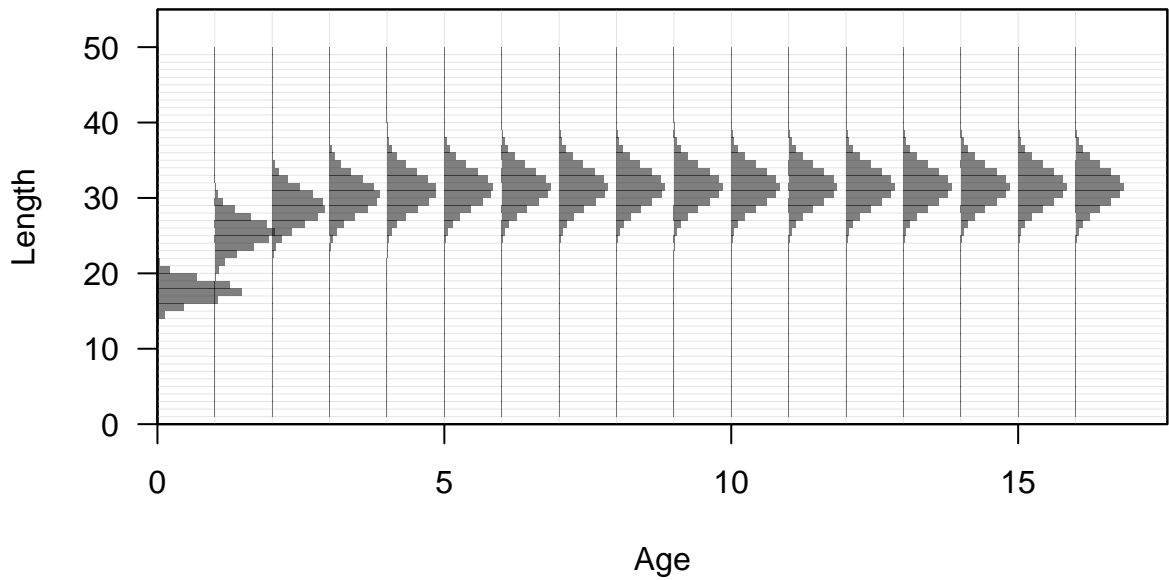


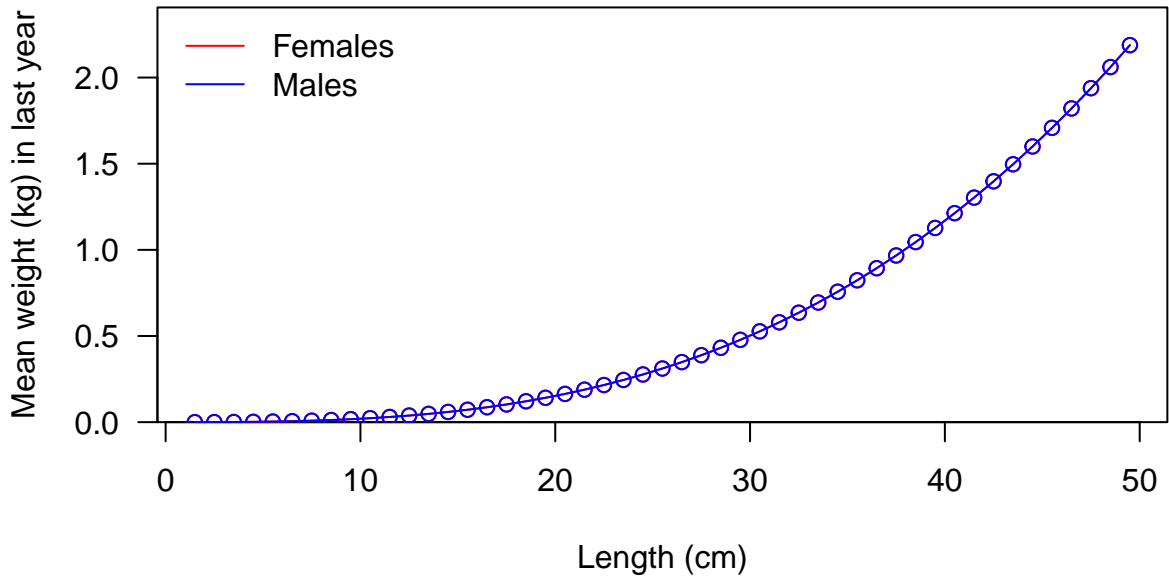


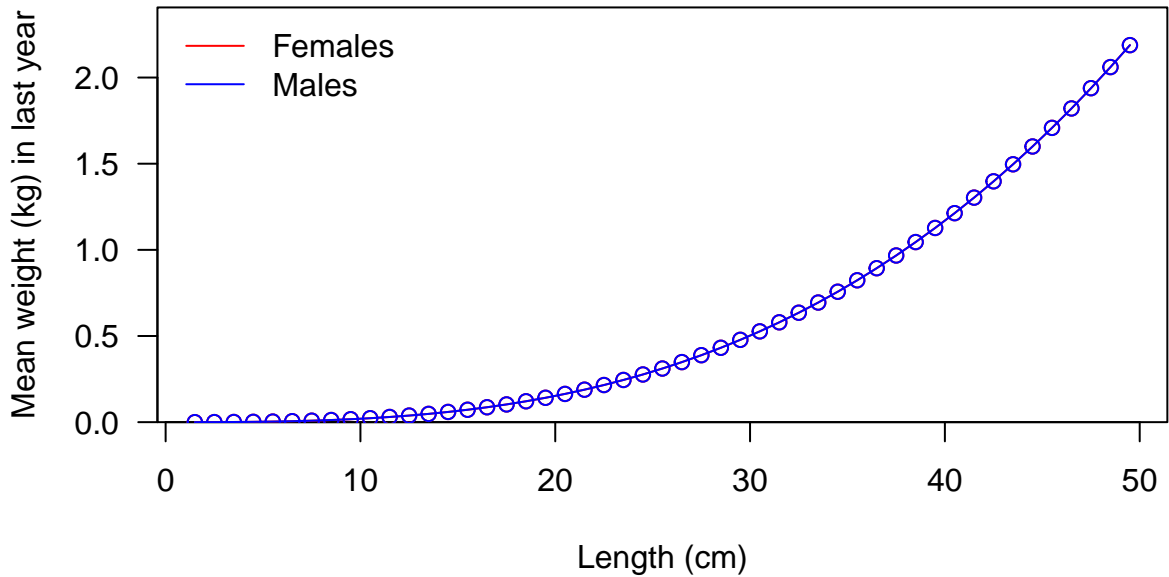


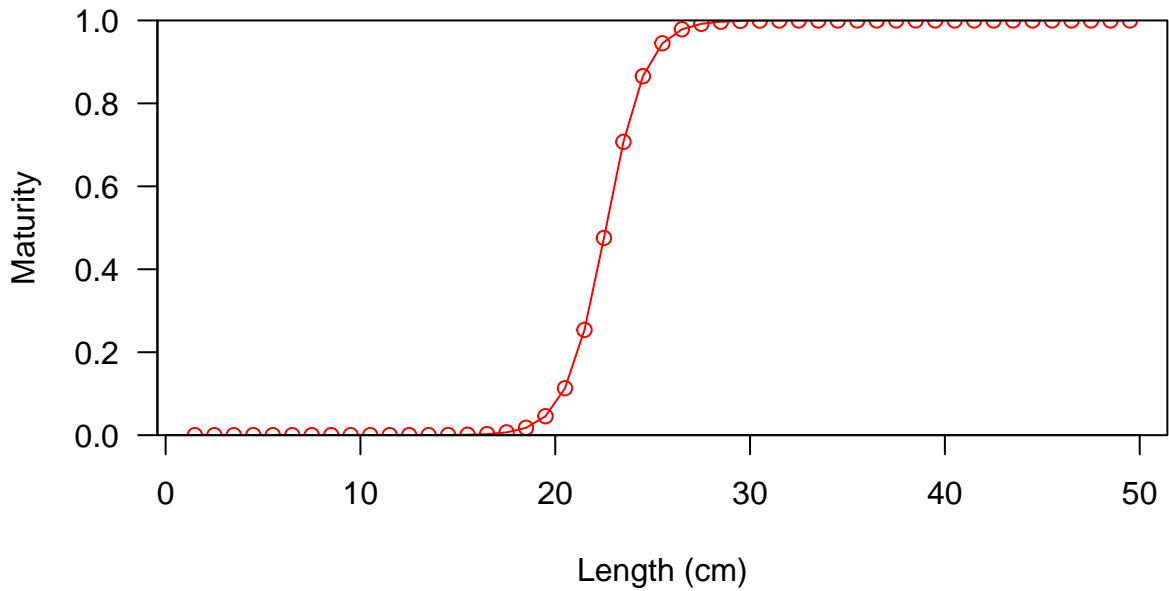


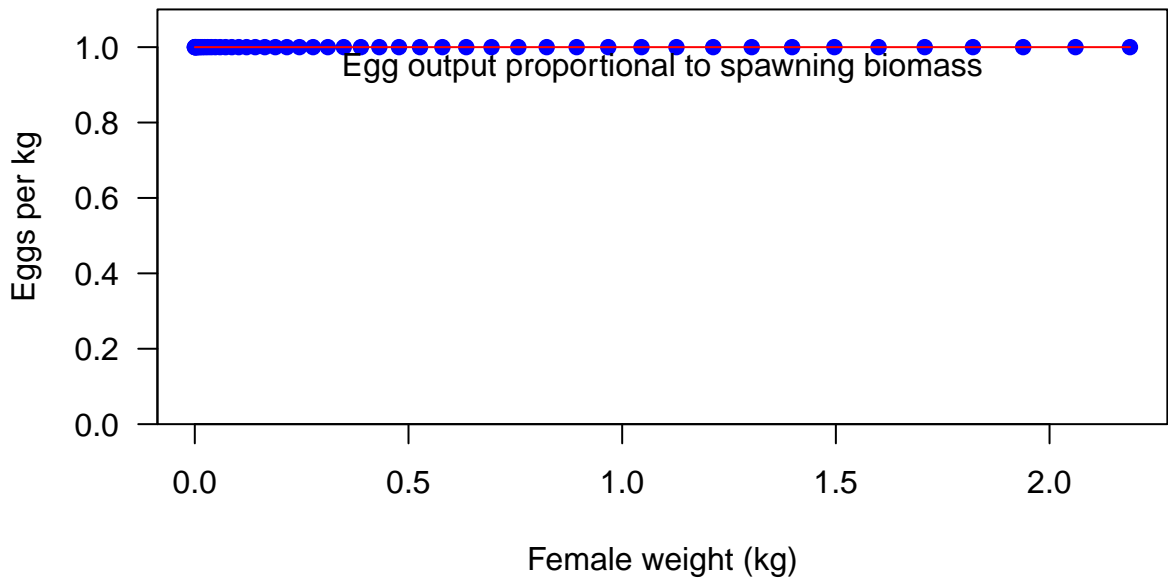


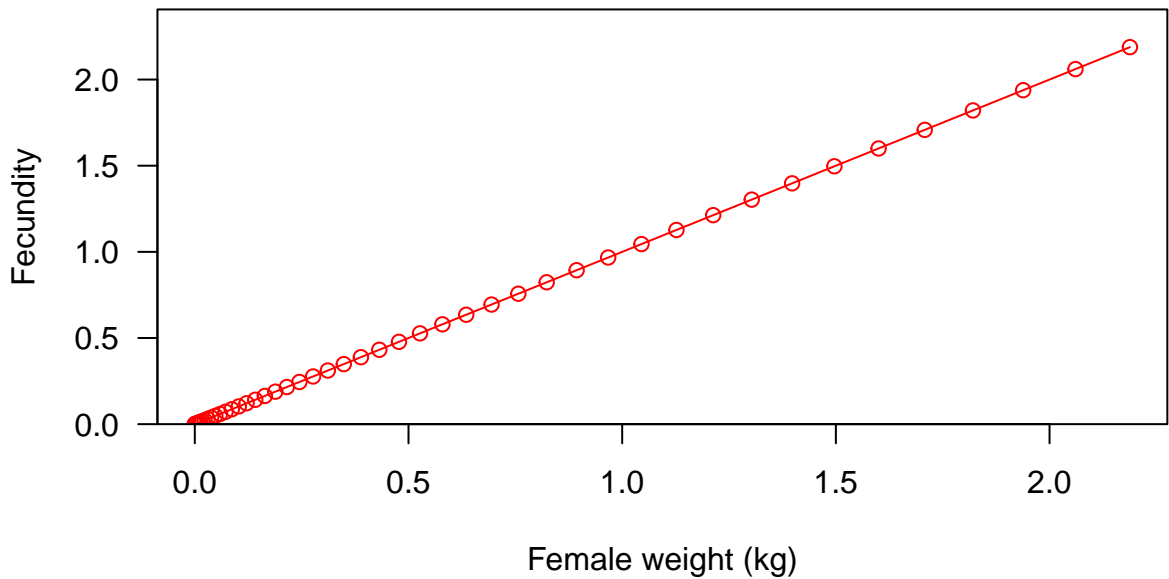


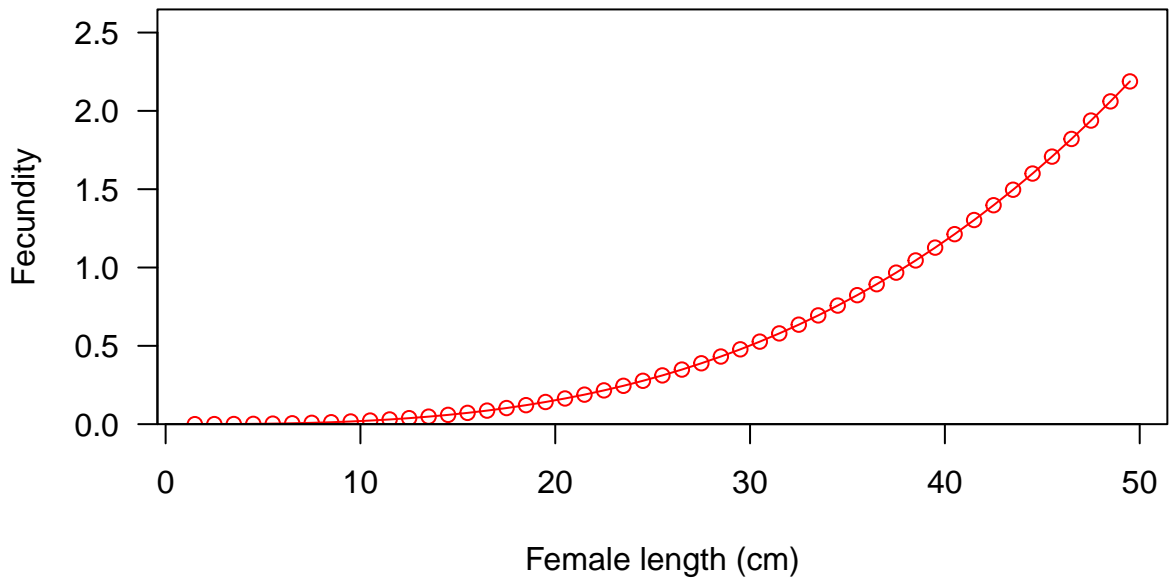


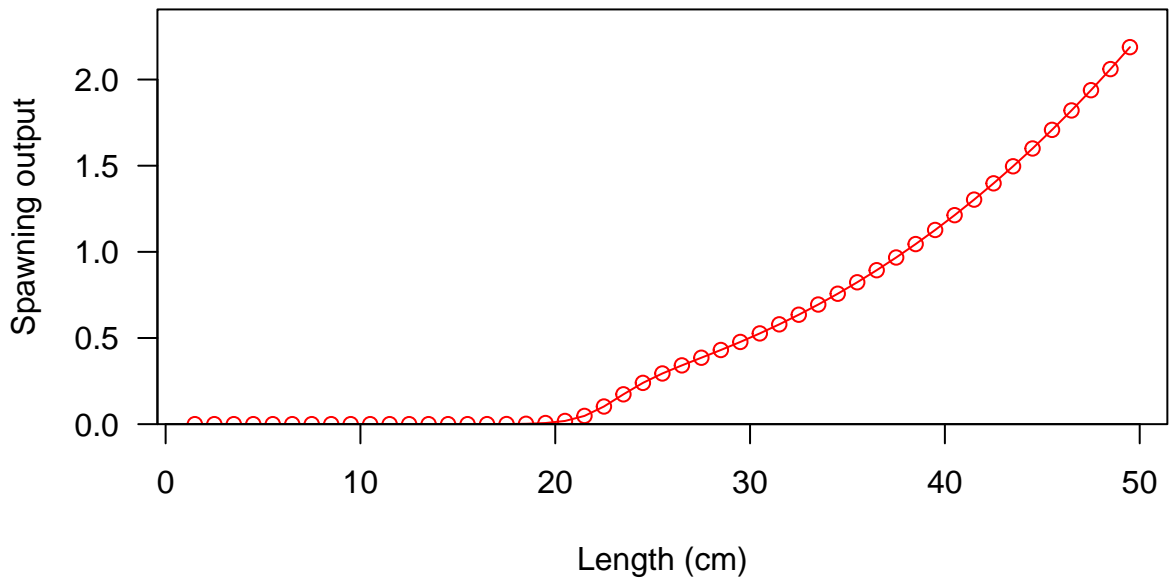


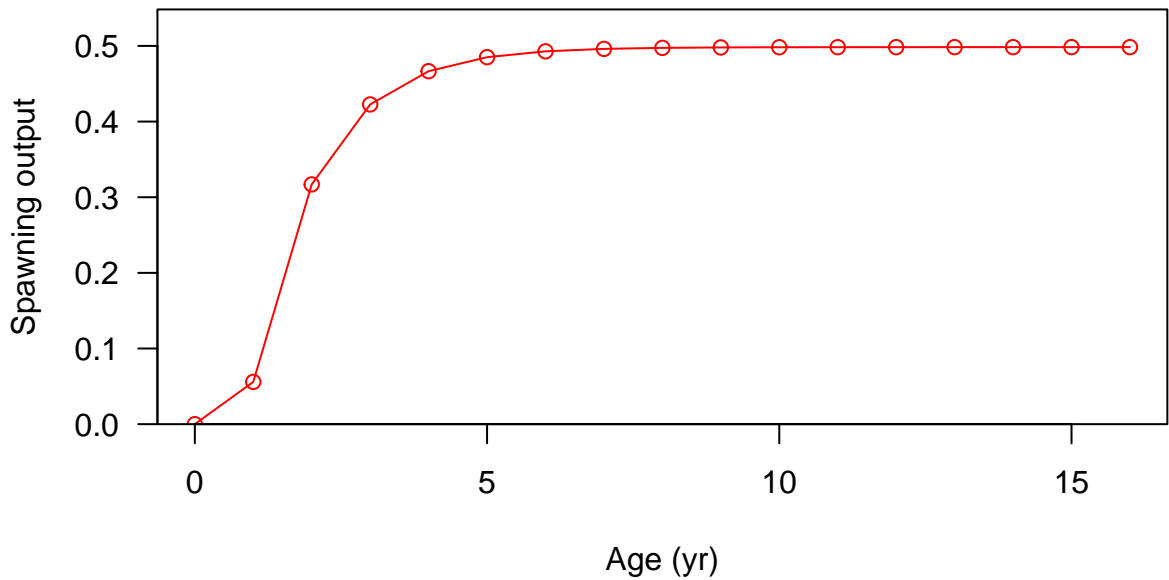


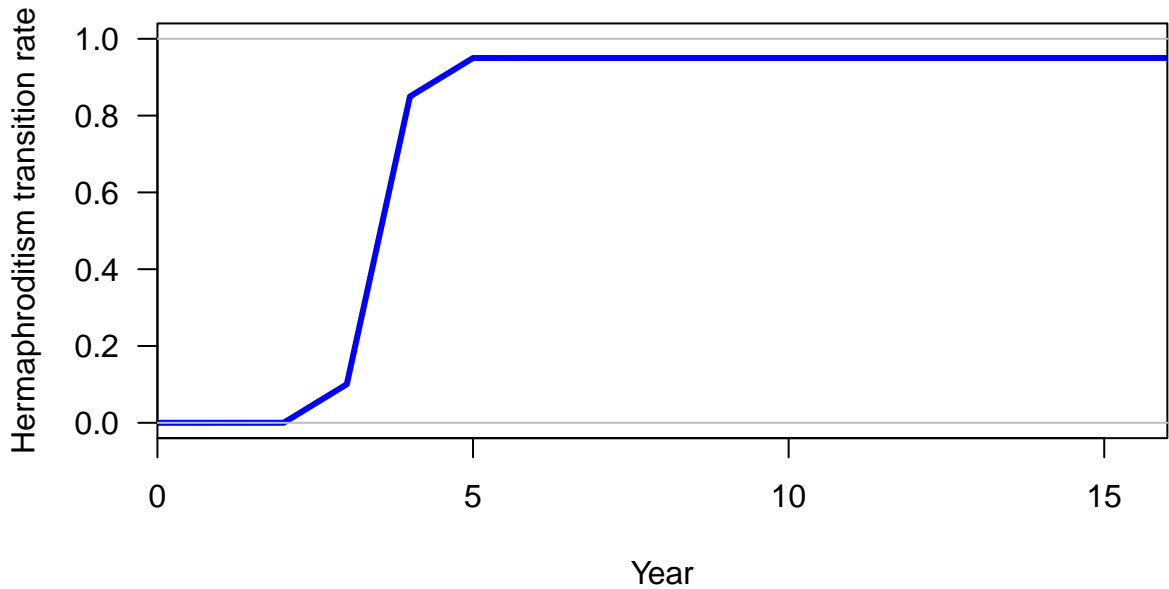




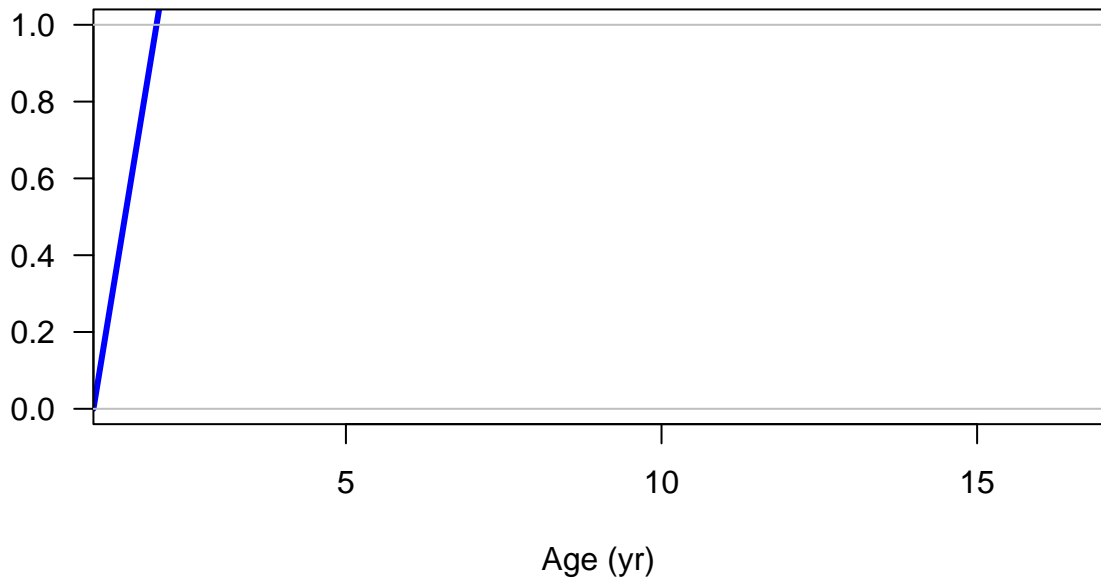




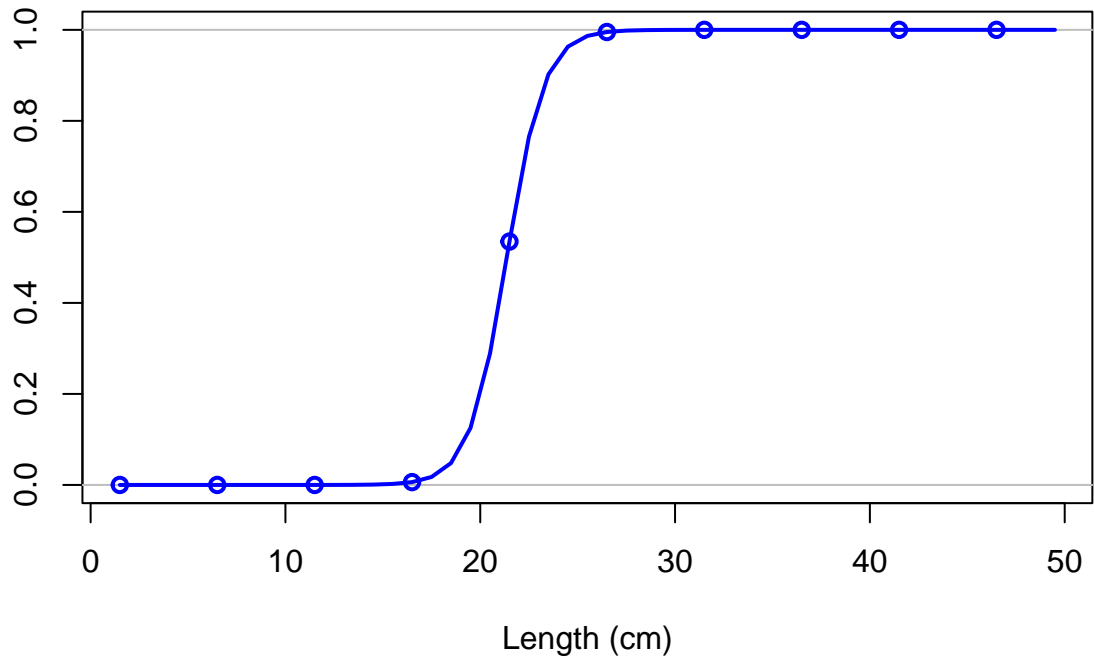




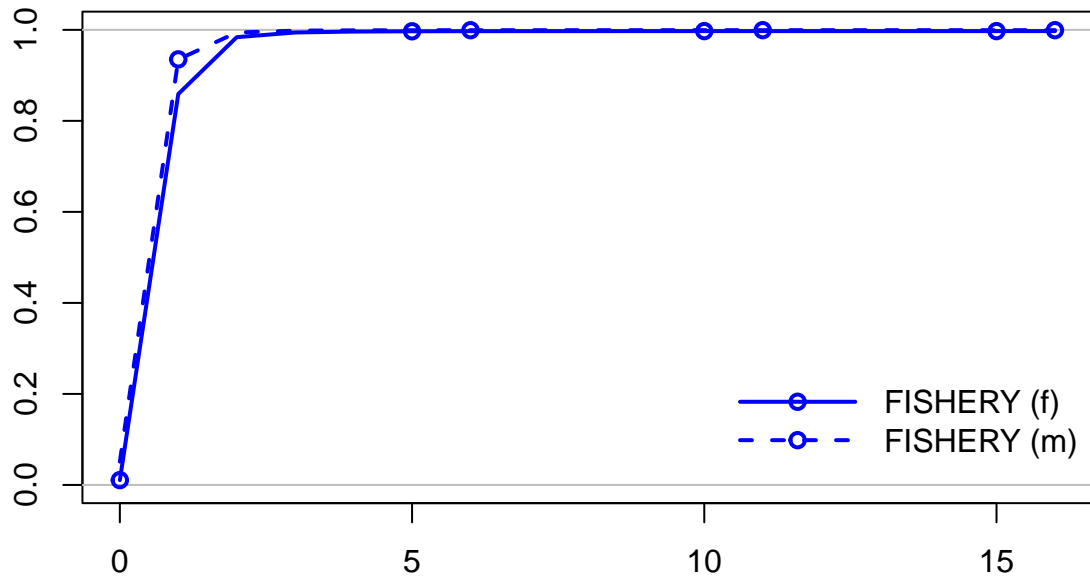
Fraction females by age at equilibrium



Selectivity

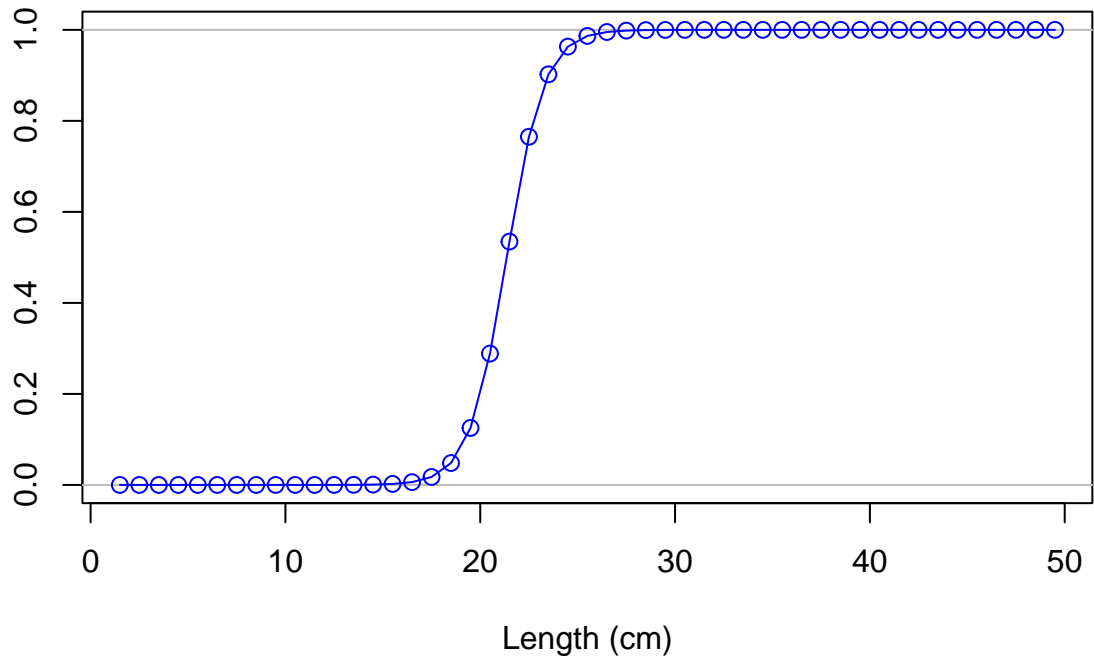


Selectivity

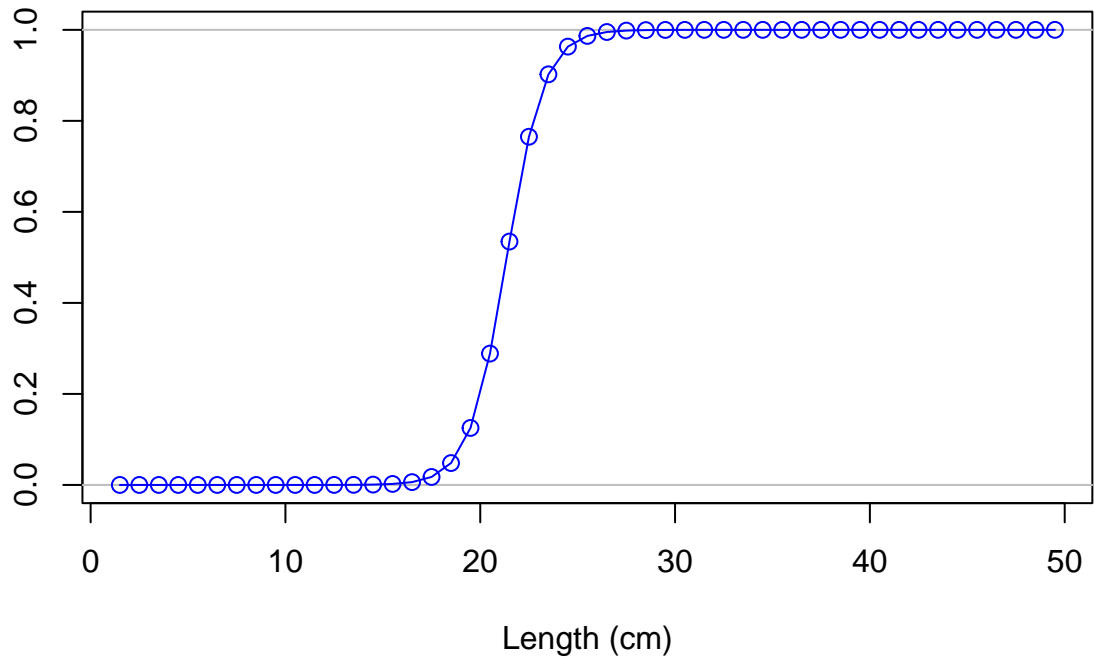


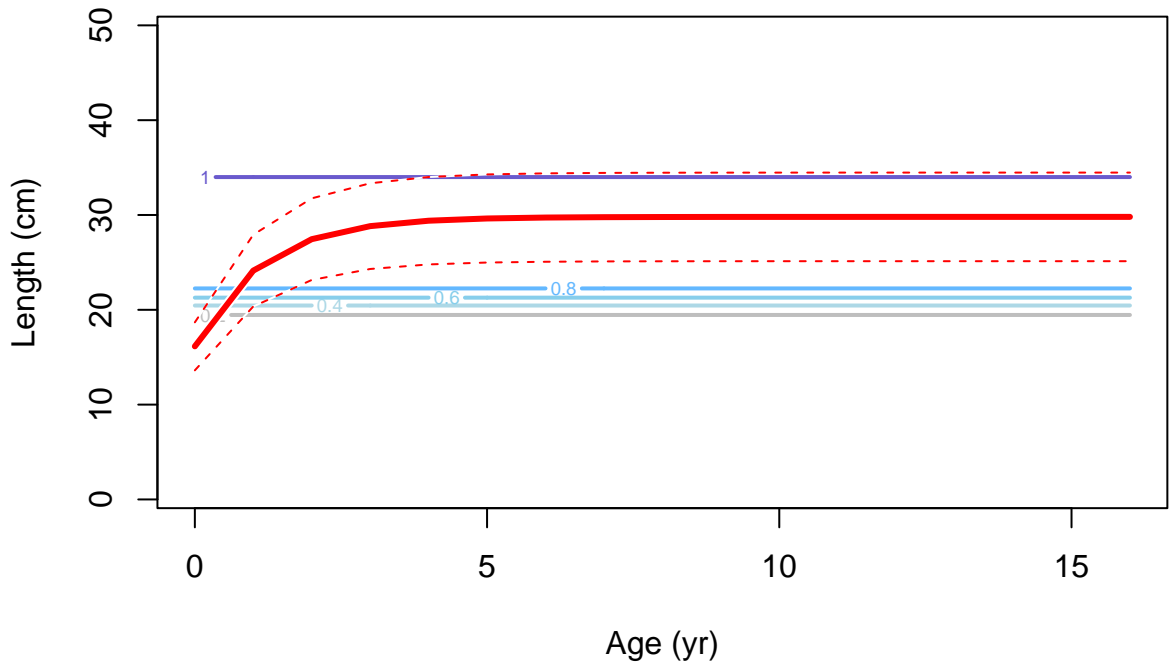
Age (yr)

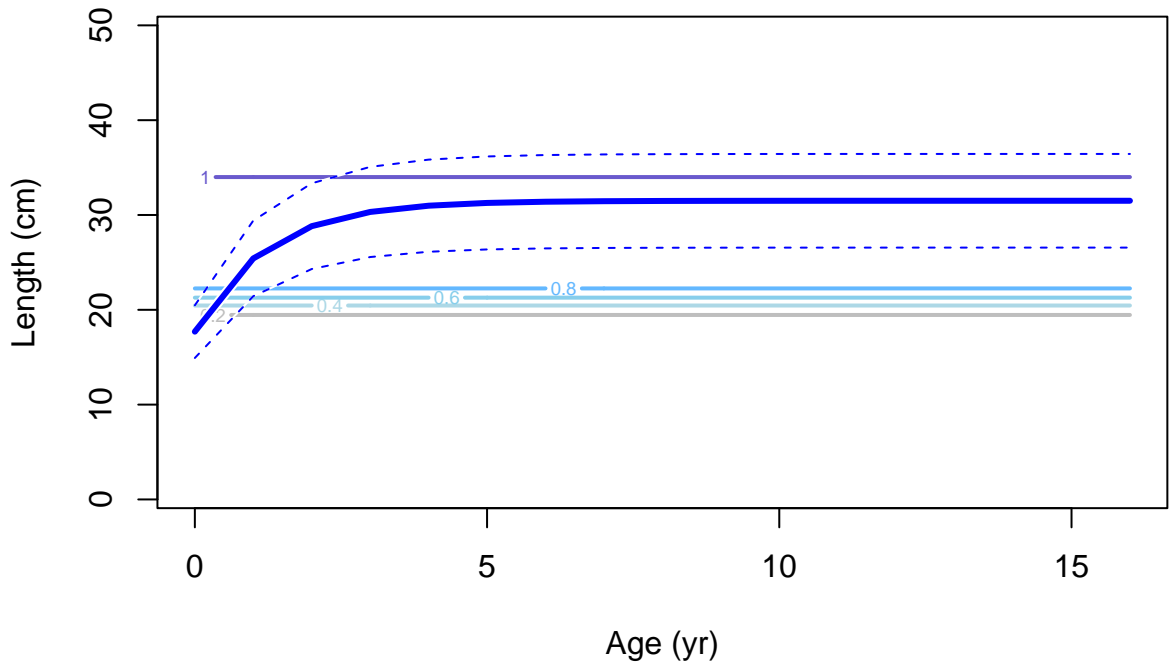
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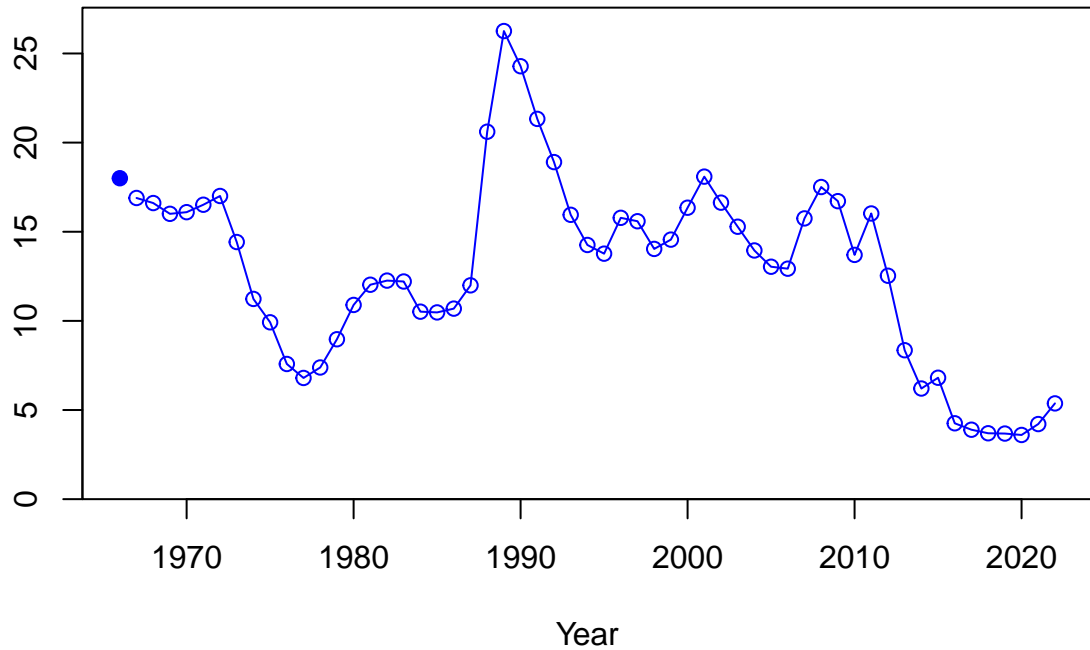
Selectivity



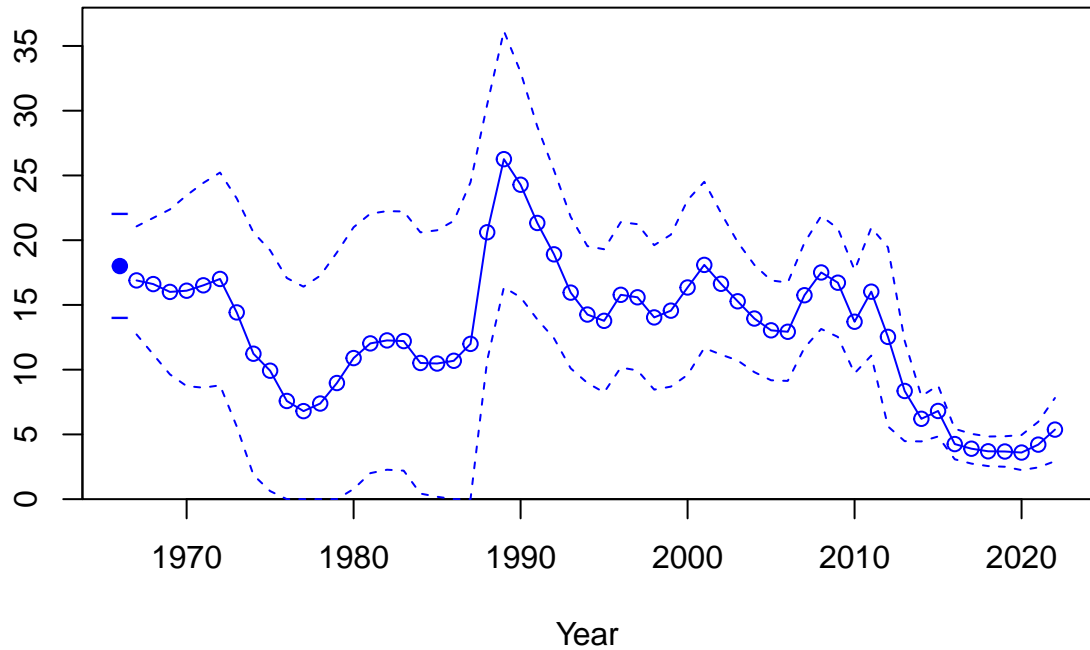




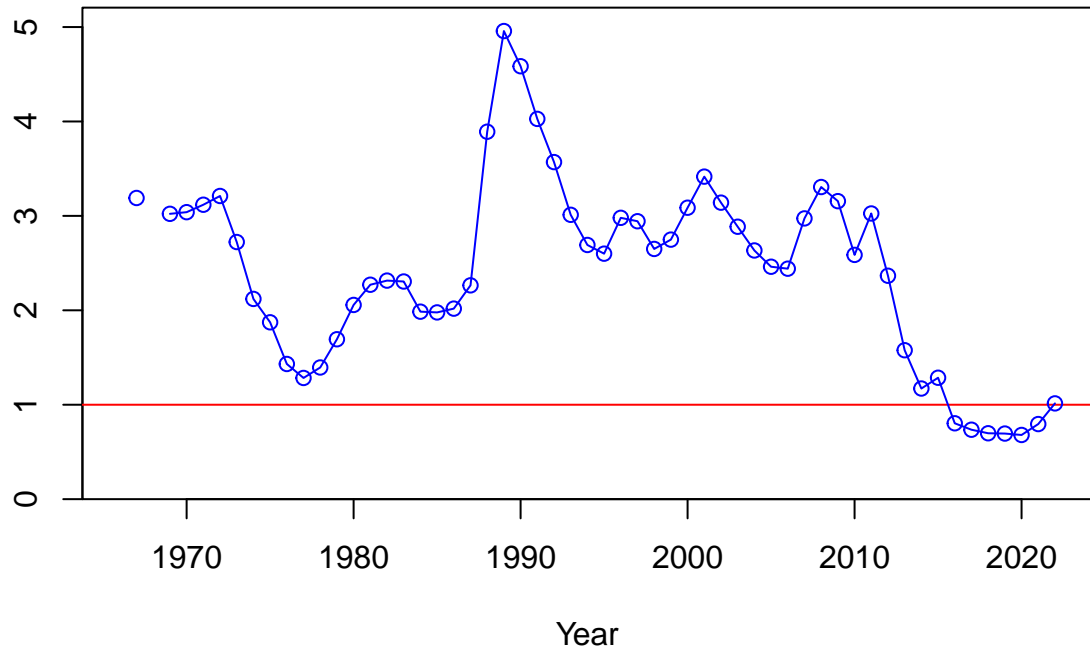
Spawning biomass (mt)



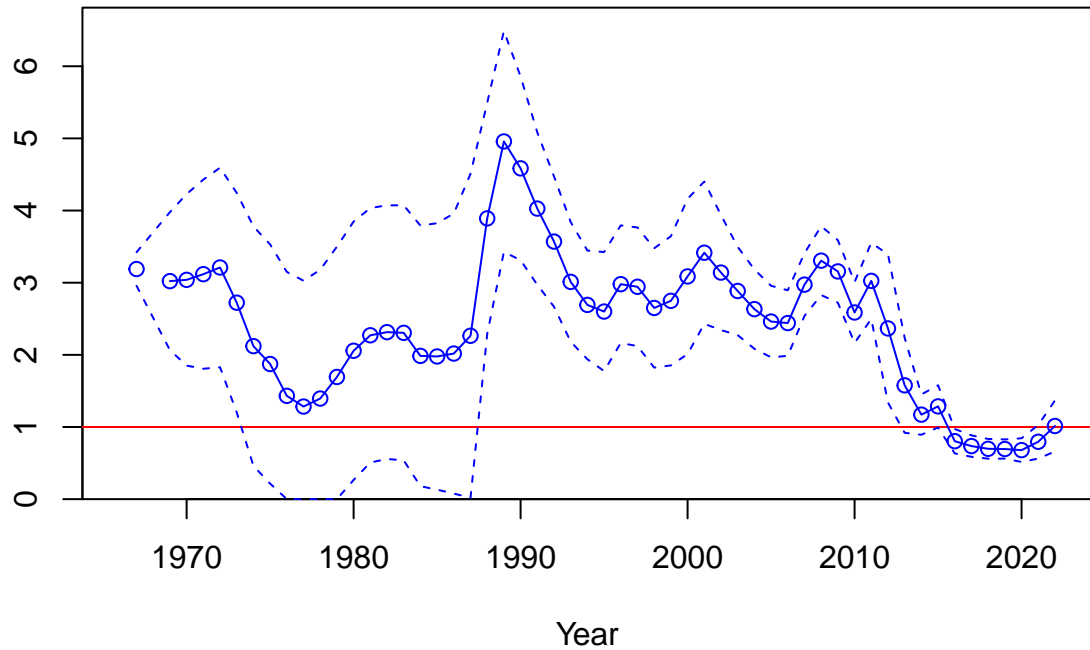
Spawning biomass (mt)

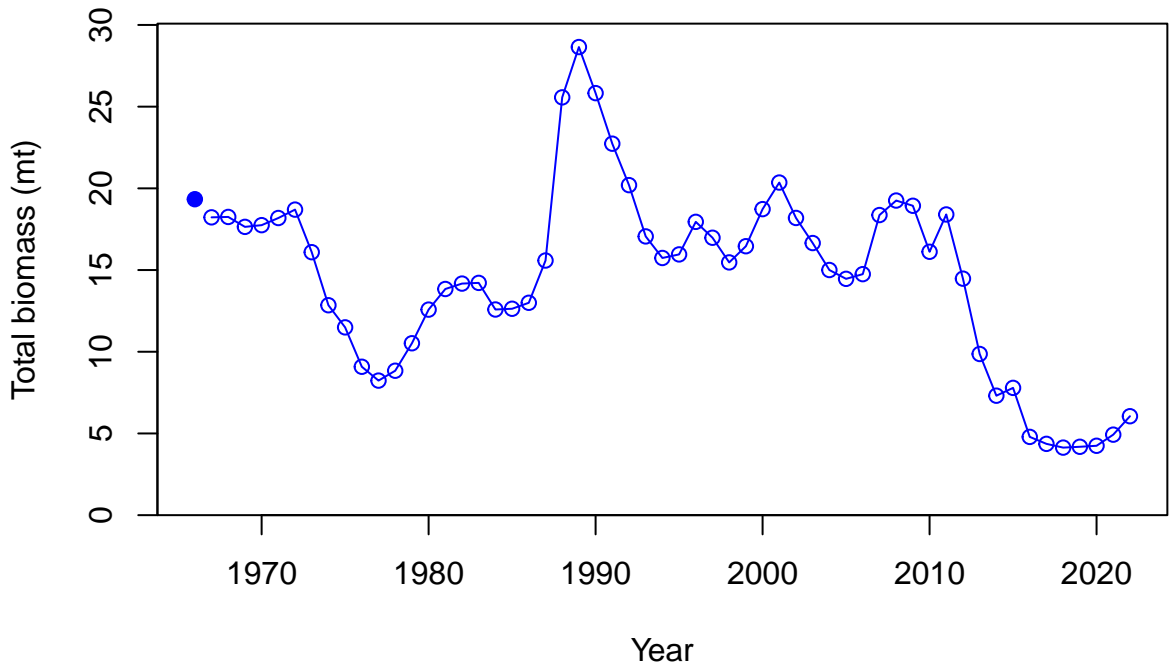


Relative spawning biomass: B/B_{MSY}

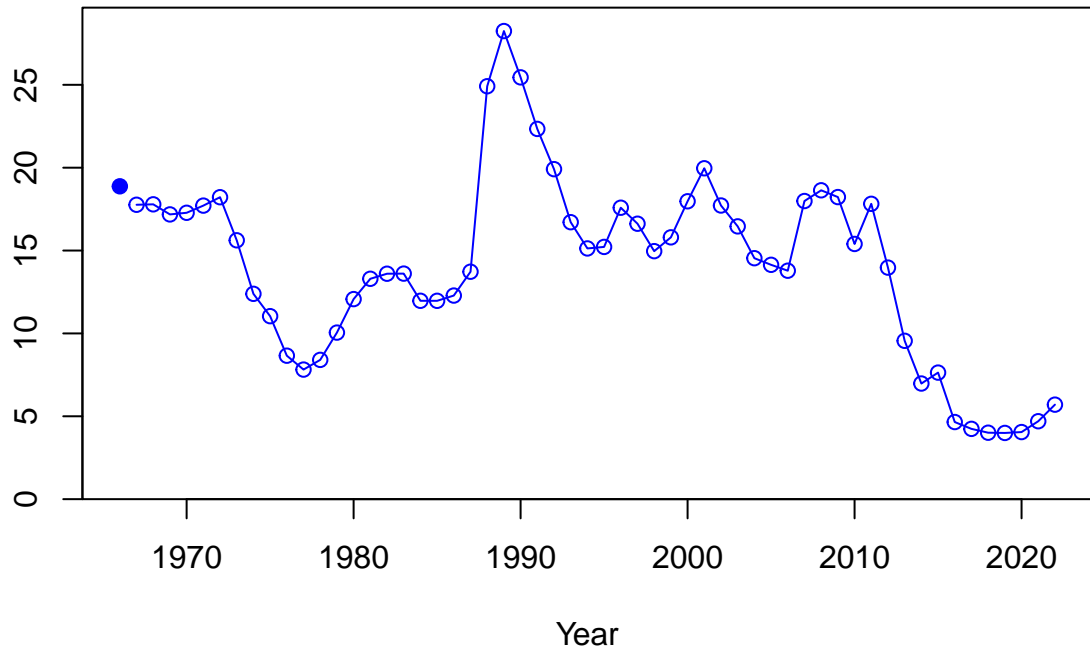


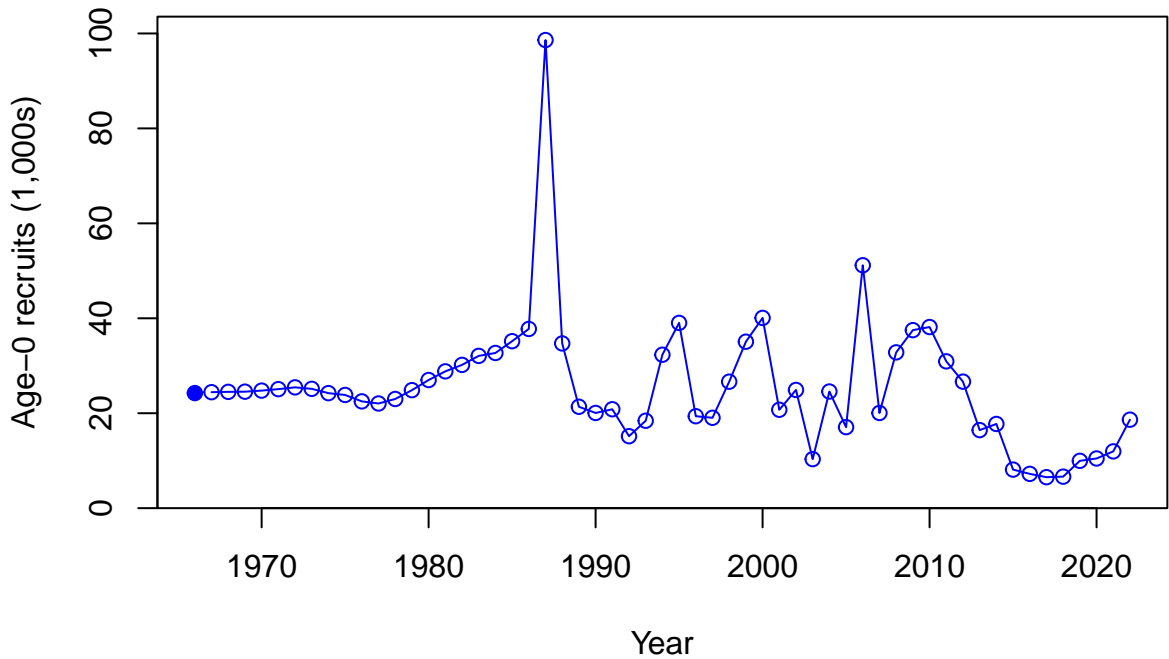
Relative spawning biomass: B/B_{MSY}

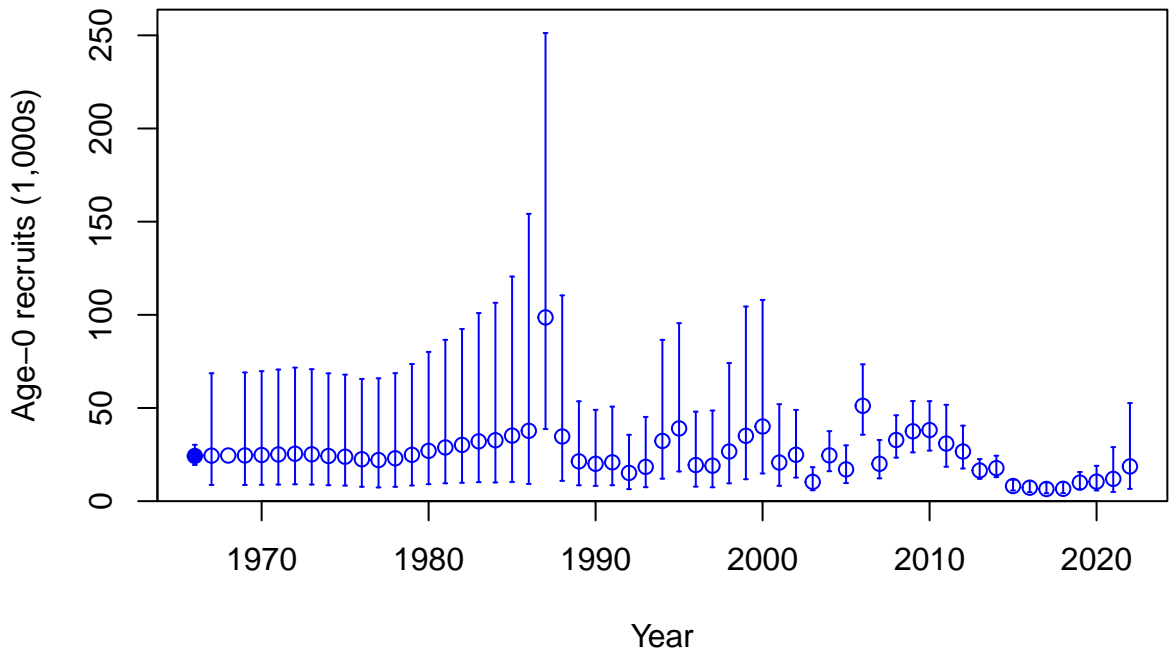




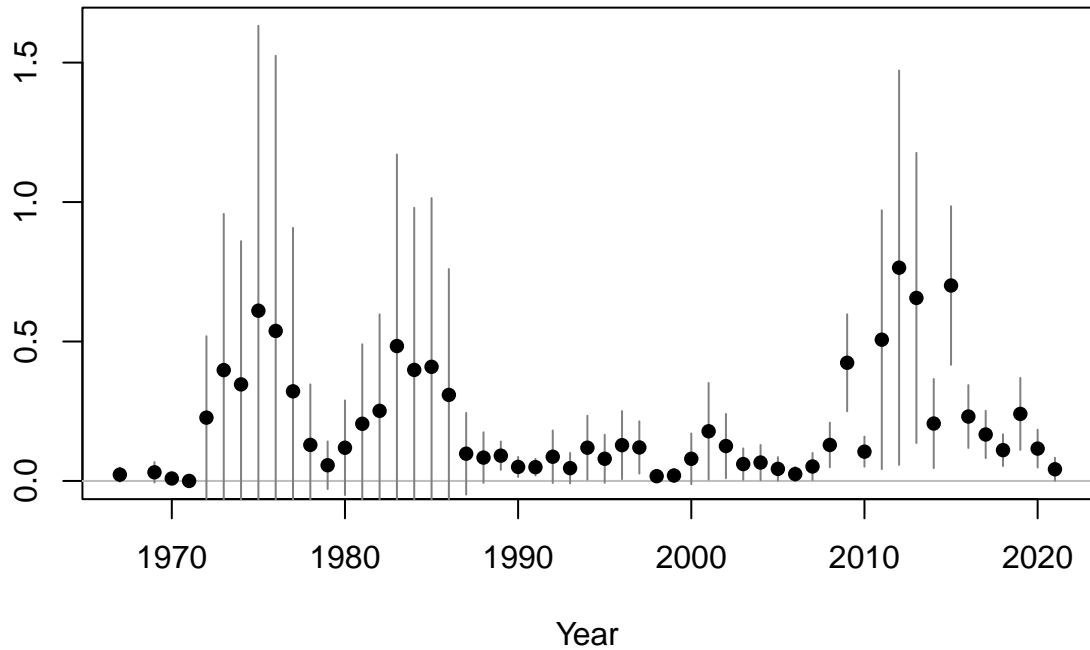
Summary biomass (mt)

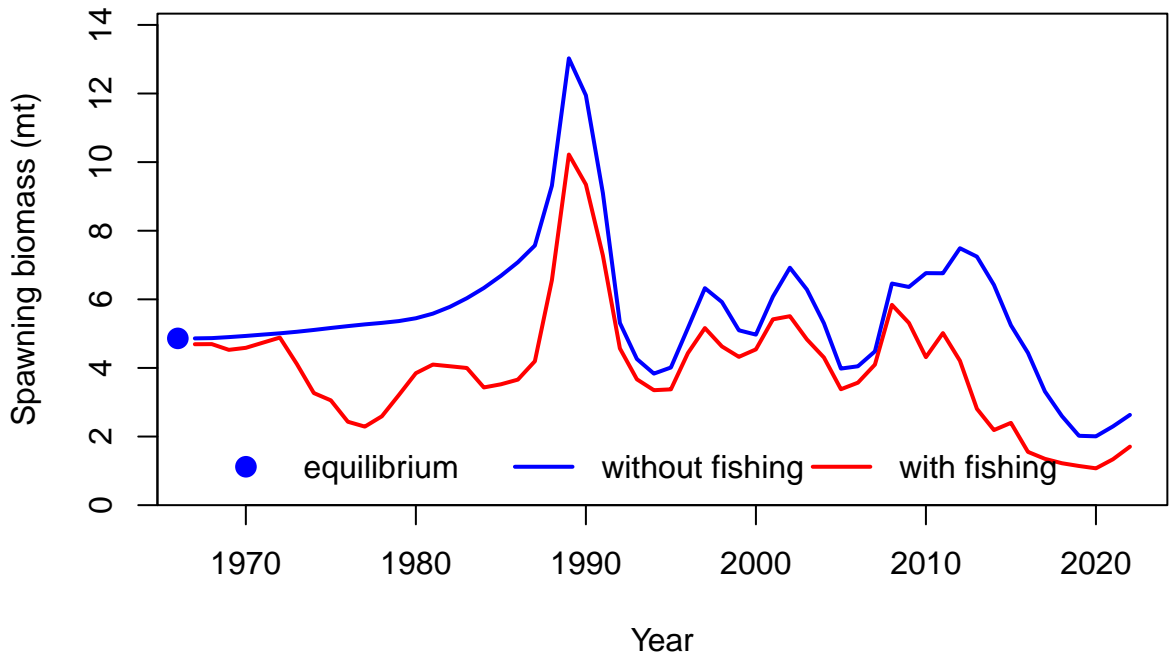




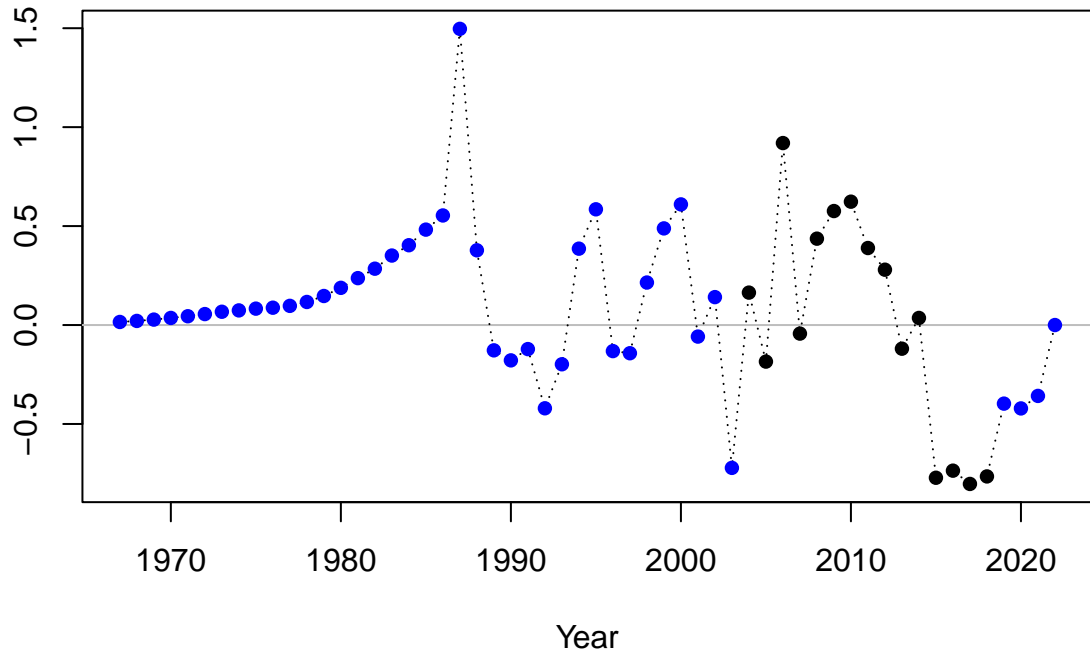


Summary Fishing Mortality

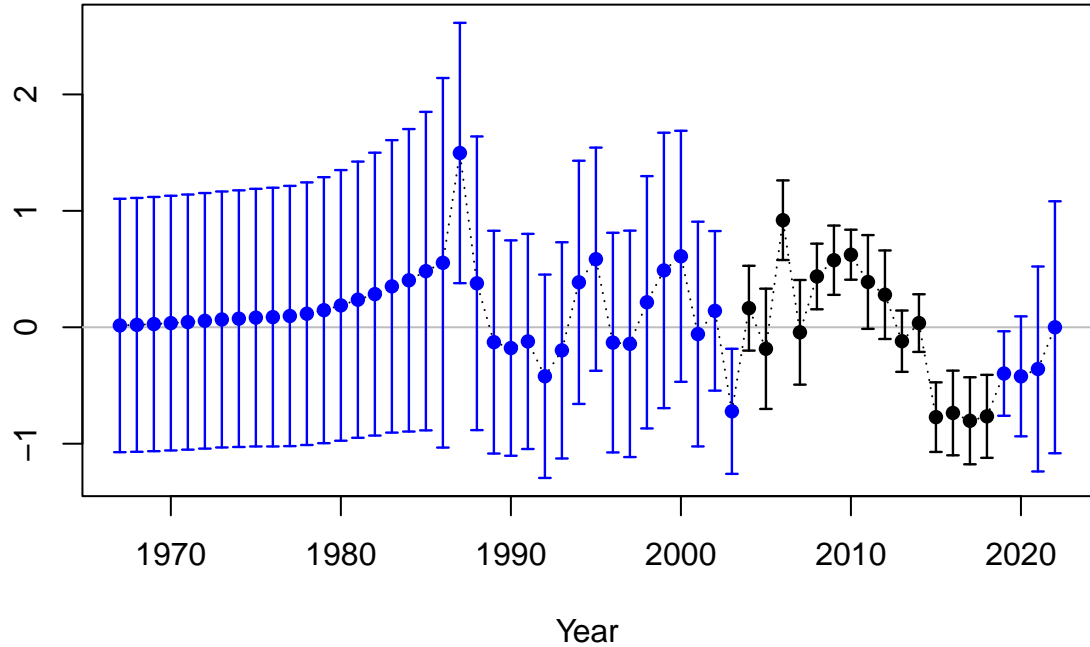




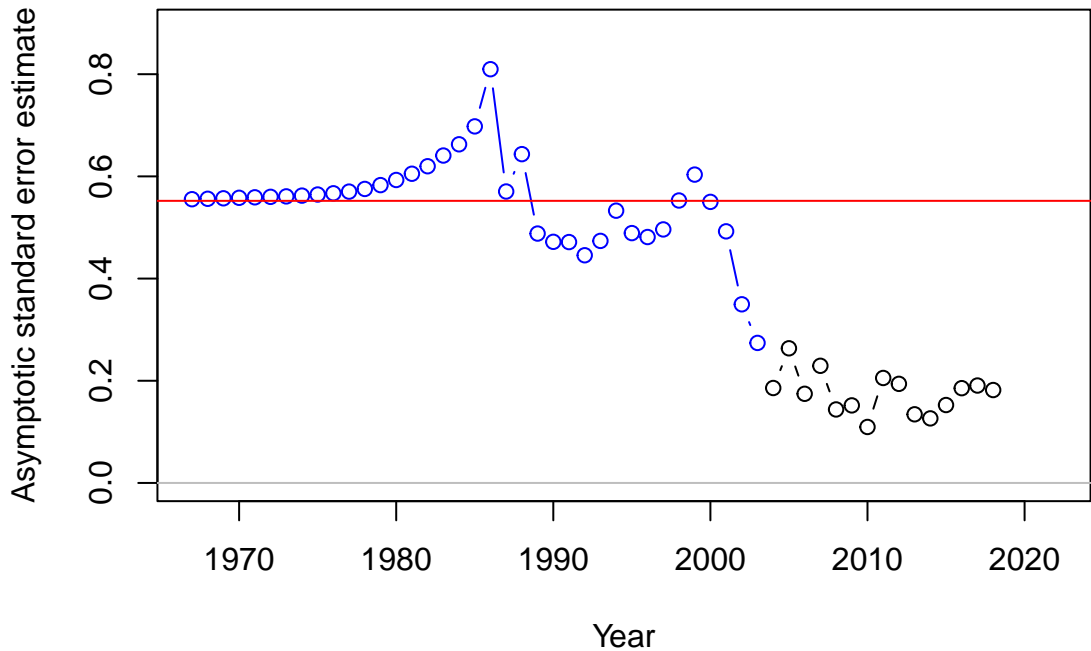
Log recruitment deviation

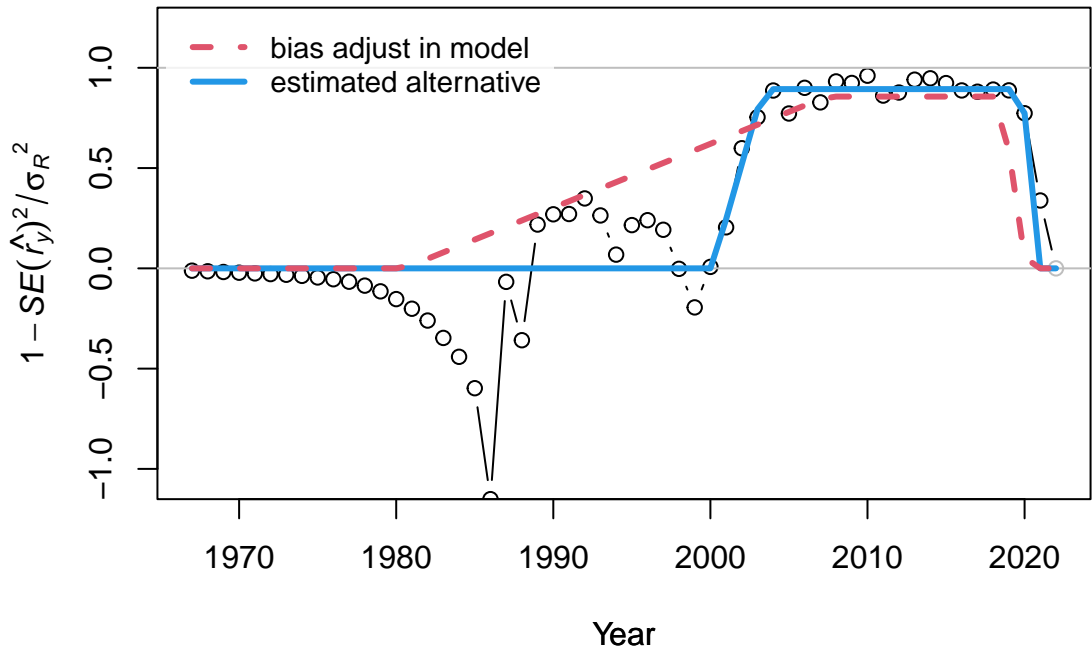


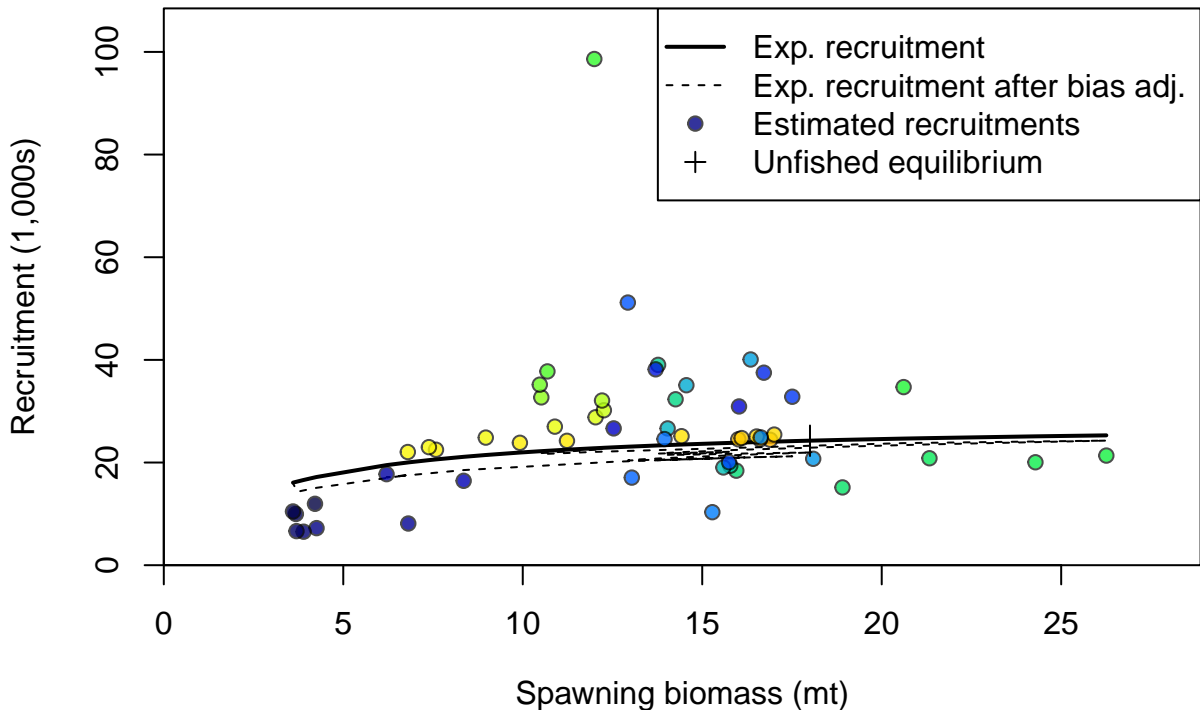
Log recruitment deviation

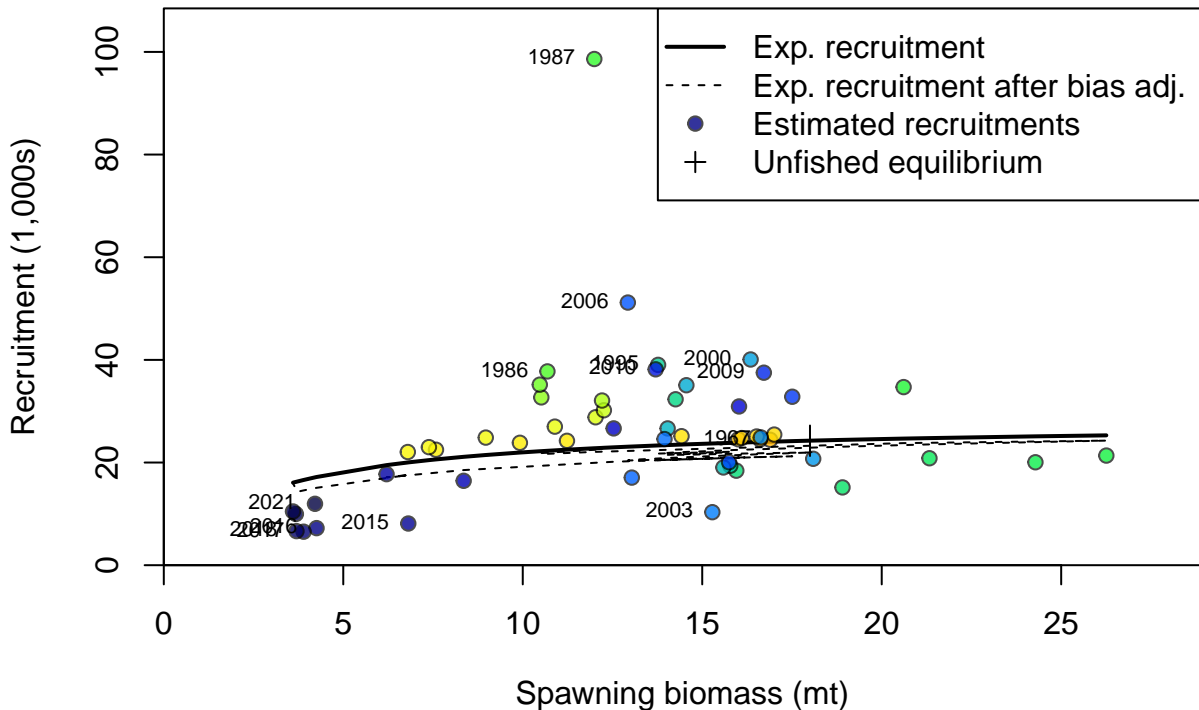


Recruitment deviation variance

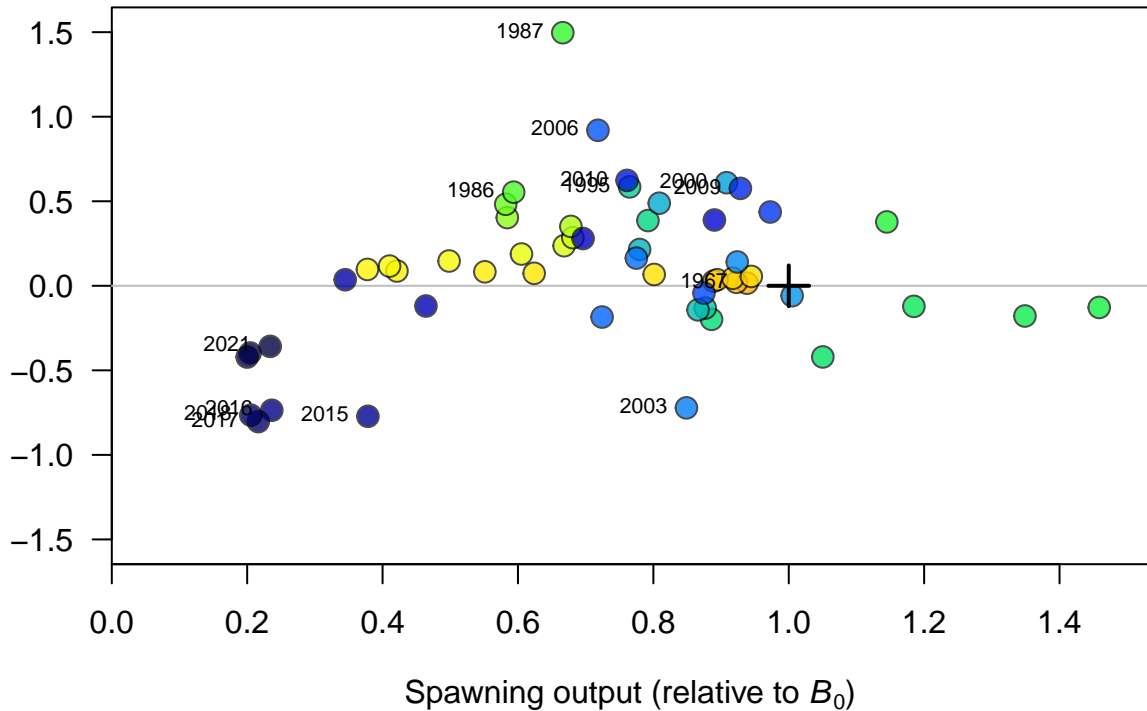


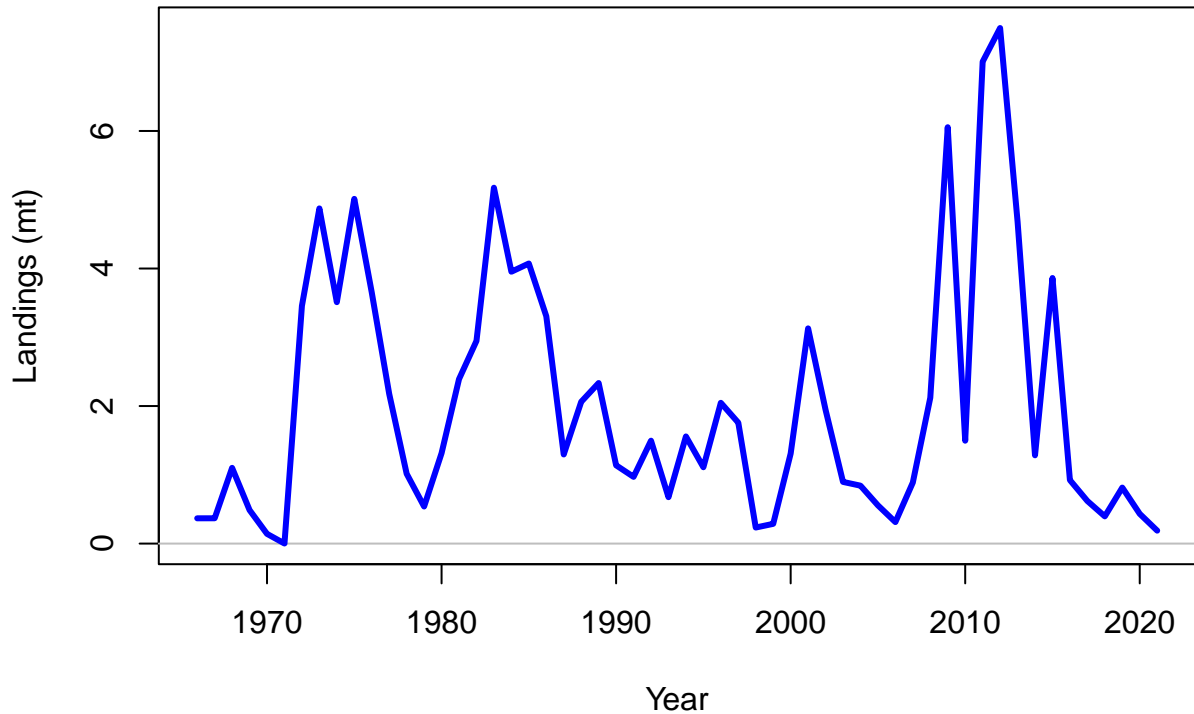


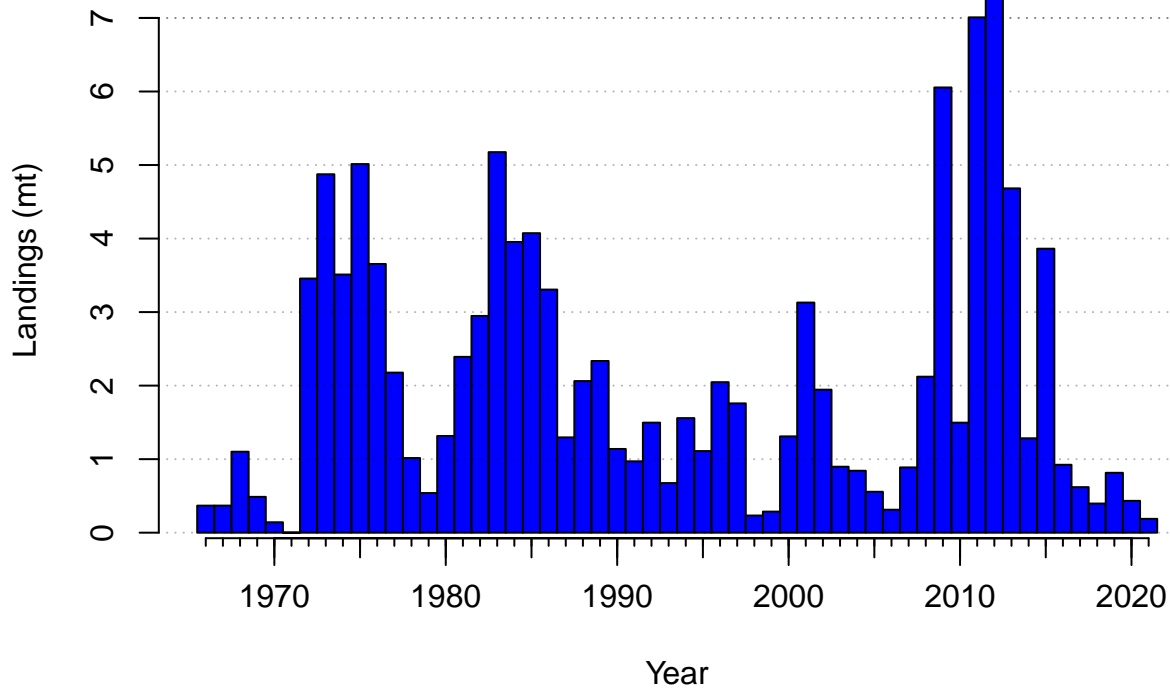




Log recruitment deviation







Observed and expected Landings (mt)

FISHERY
FISHERY obs.

6
4
2
0

1970

1980

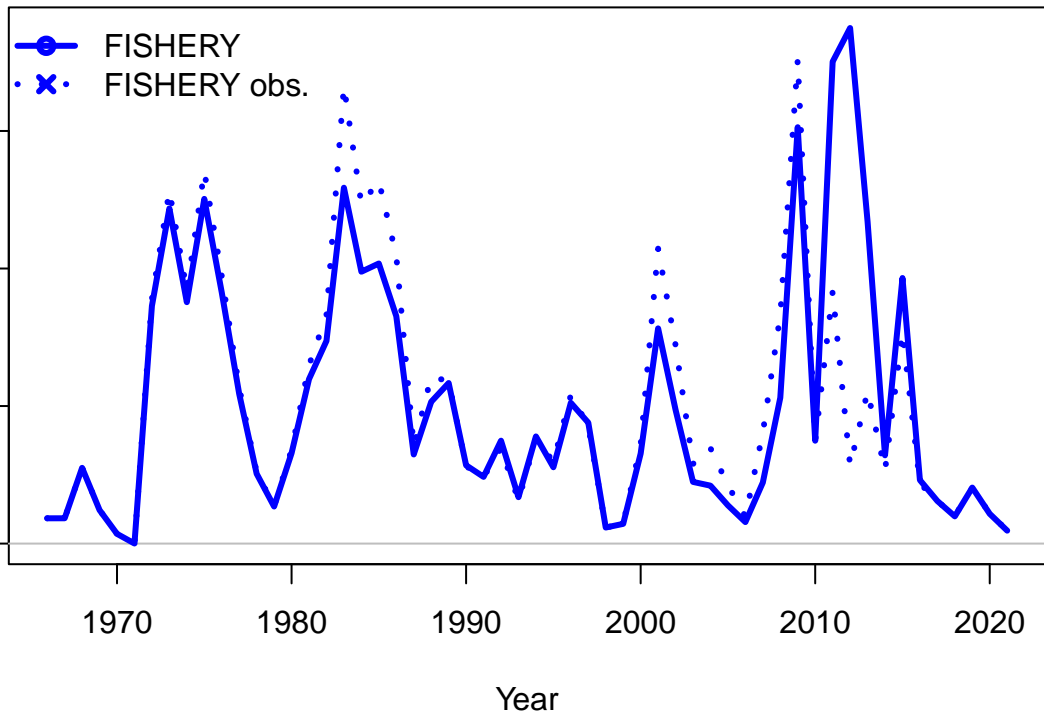
1990

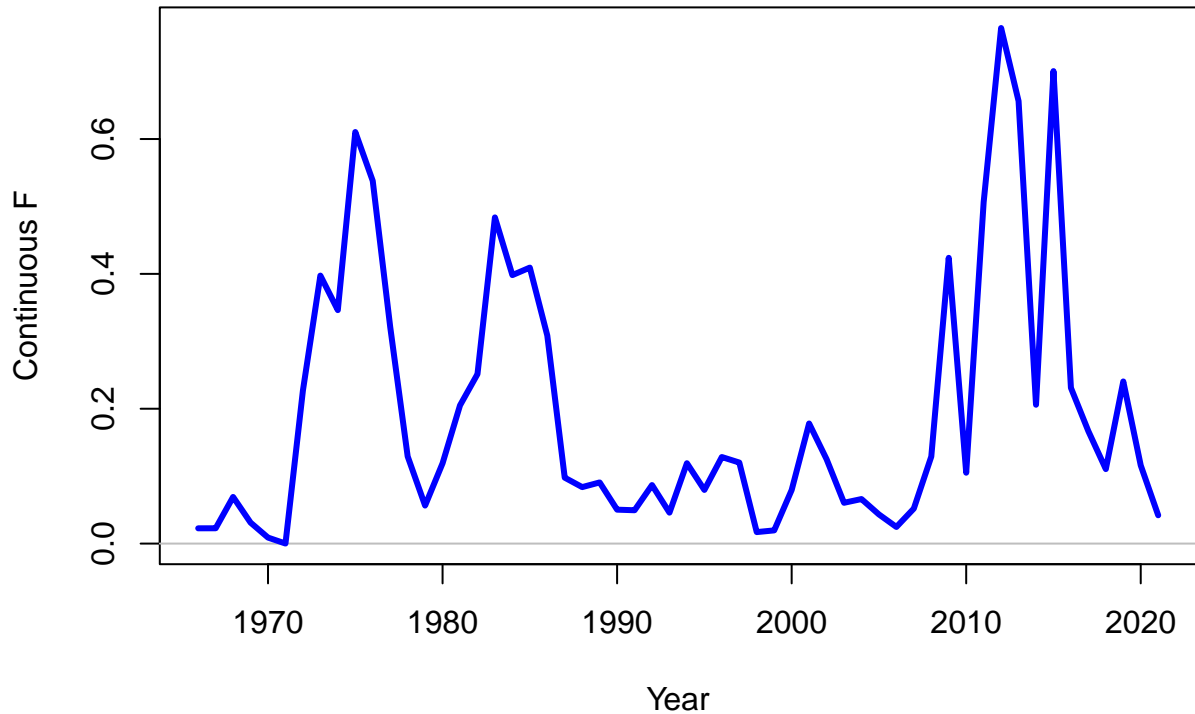
2000

2010

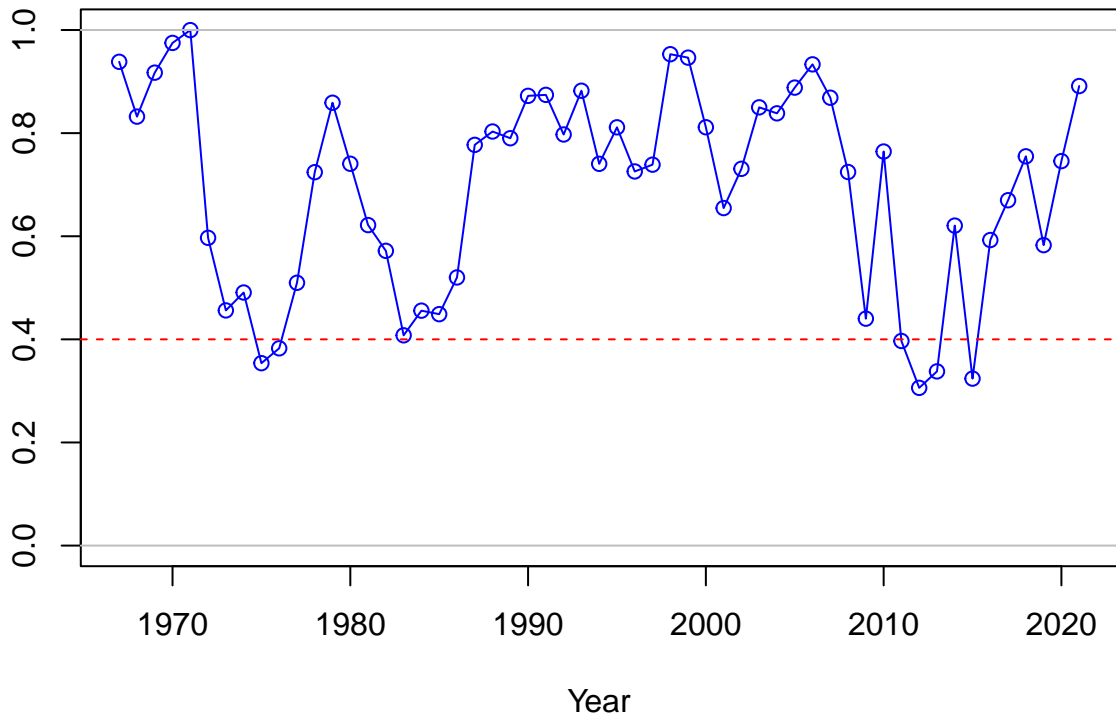
2020

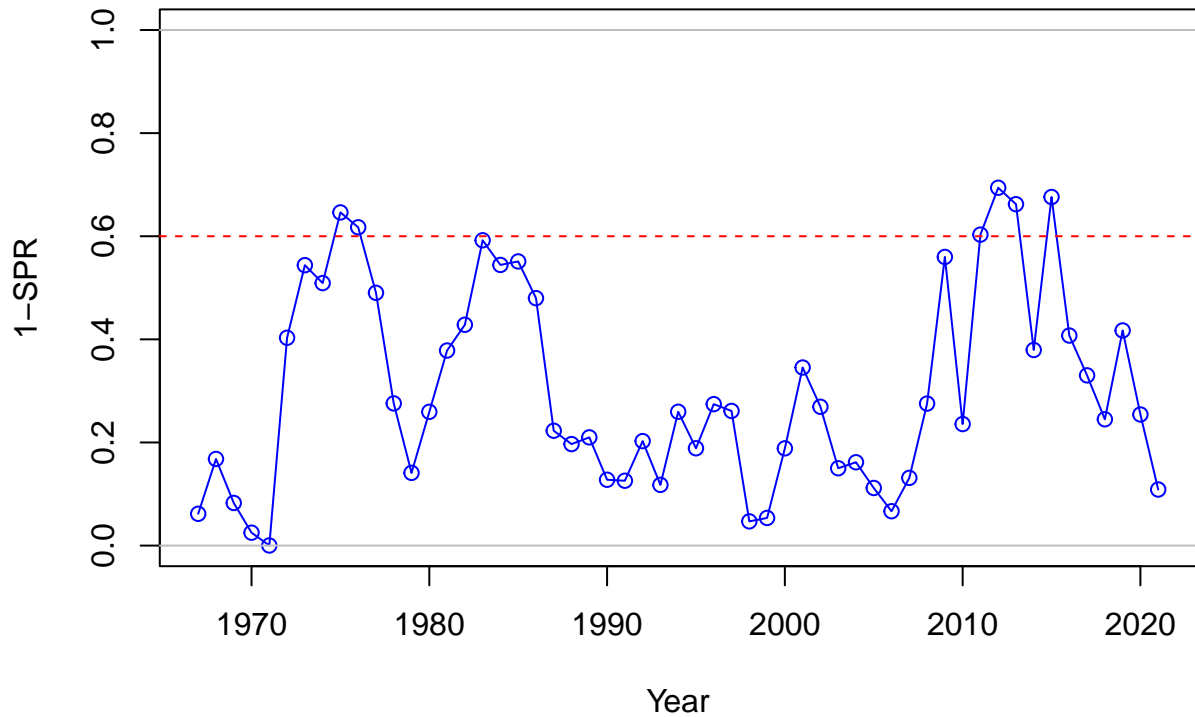
Year



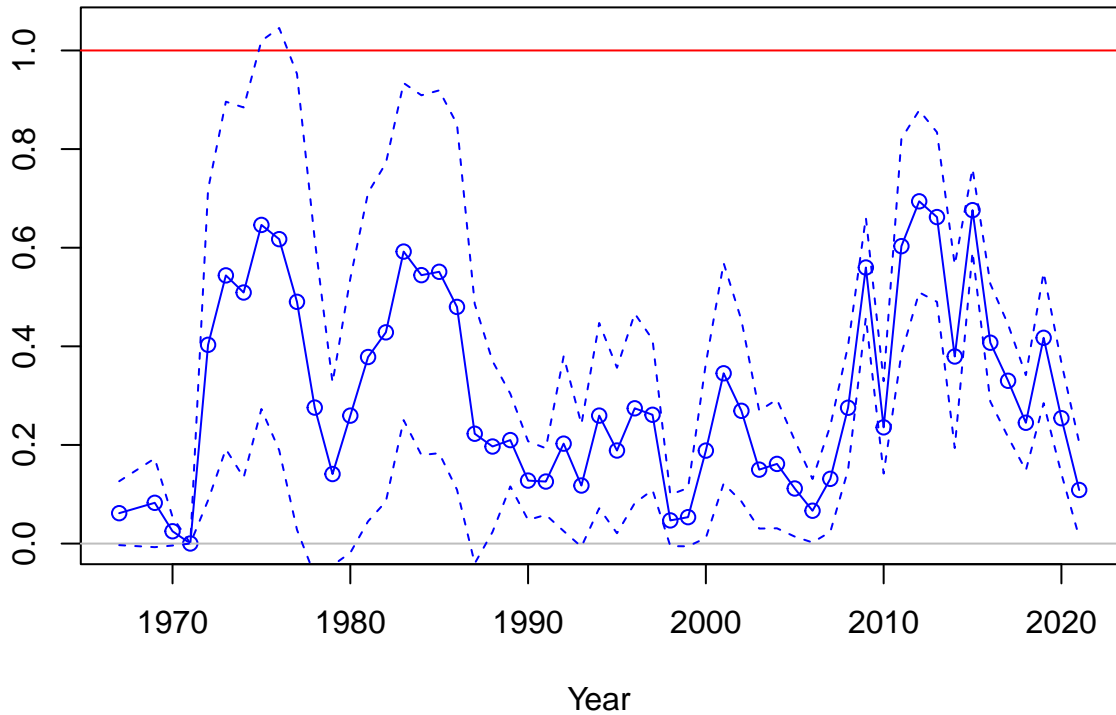


SPR

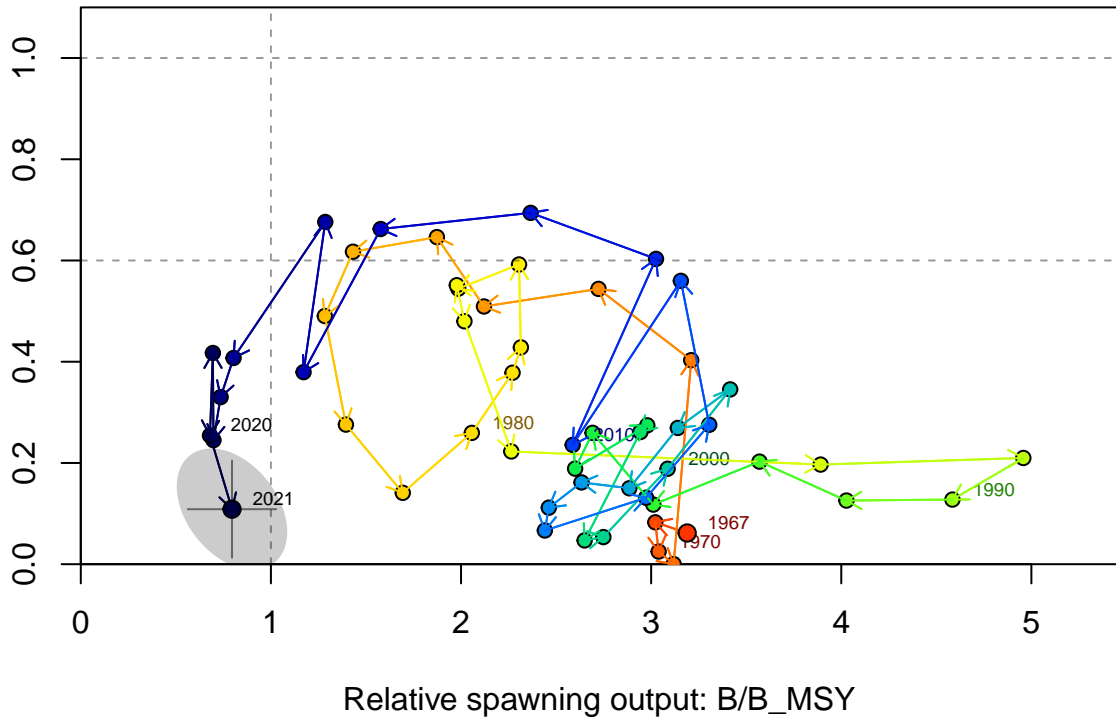




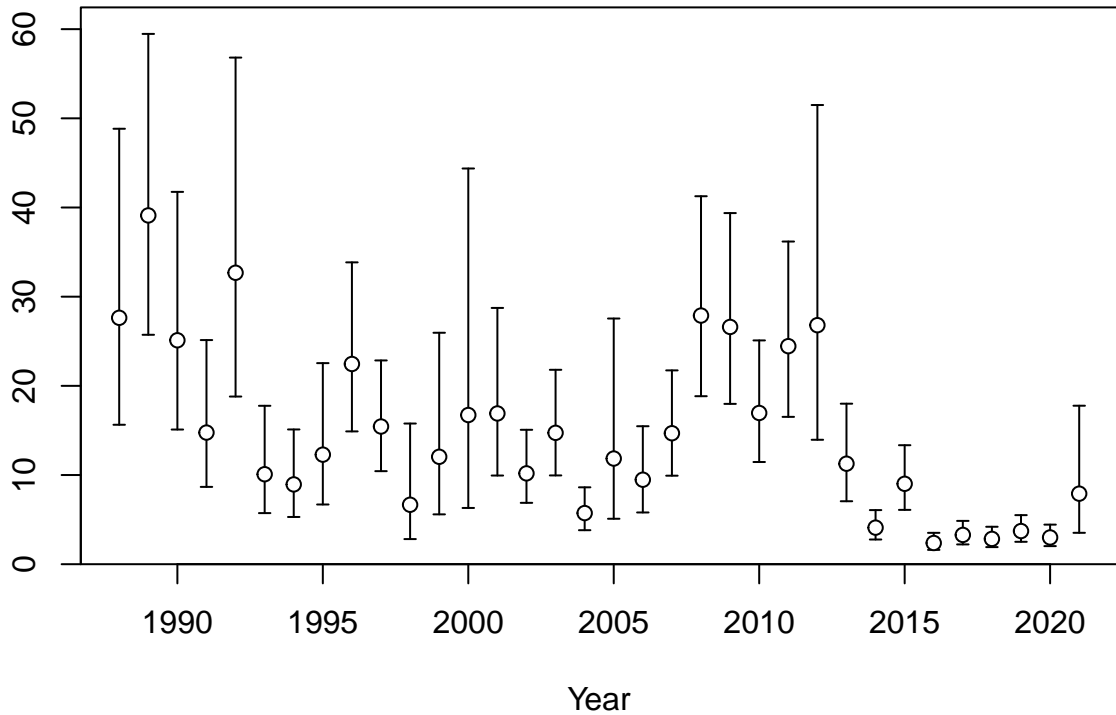
Fishing intensity: 1-SPR



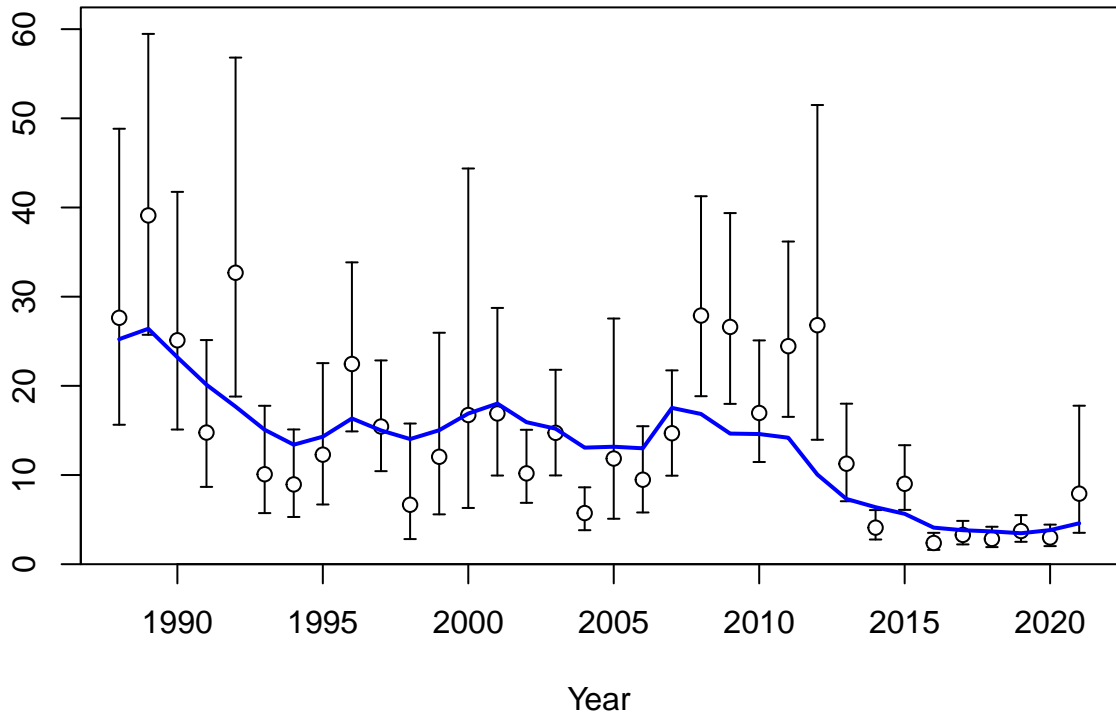
Fishing intensity: 1-SPR

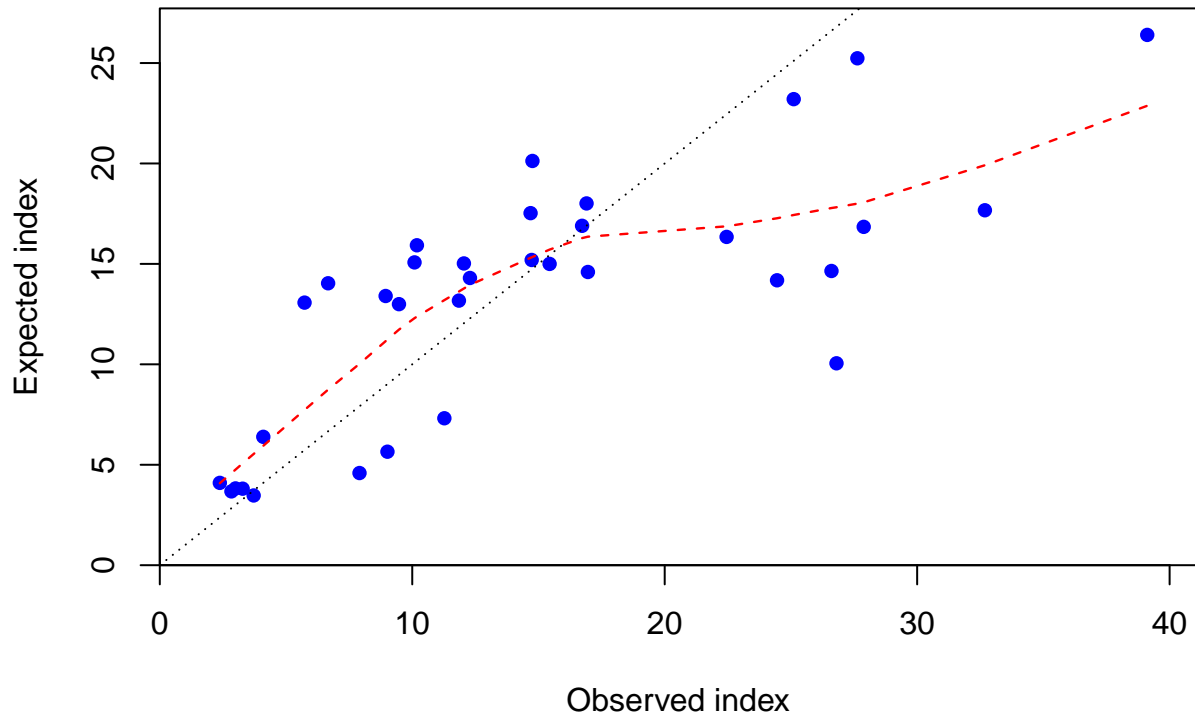


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Index





Log index

4
3
2
1

1990

1995

2000

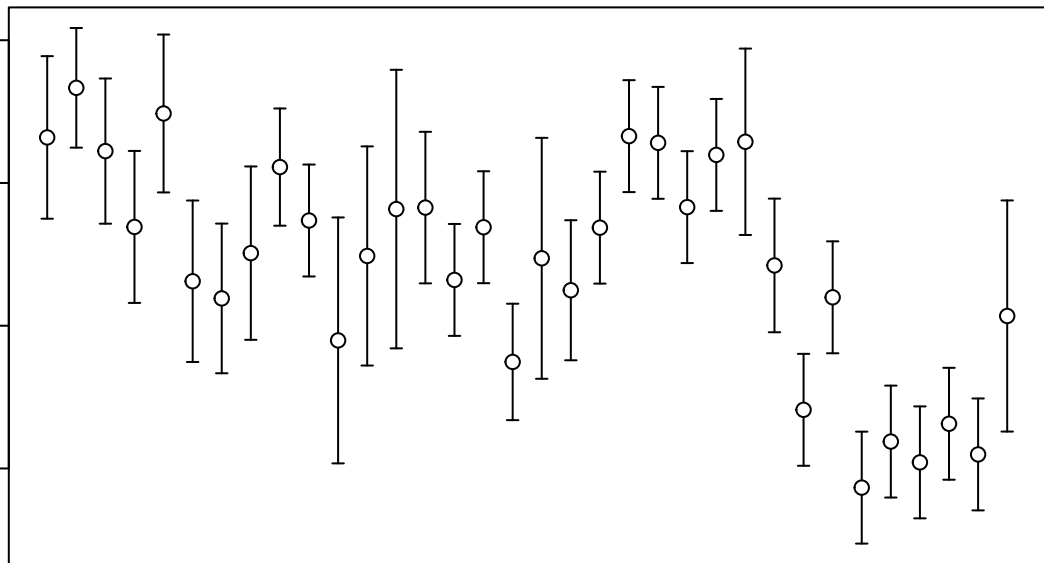
2005

2010

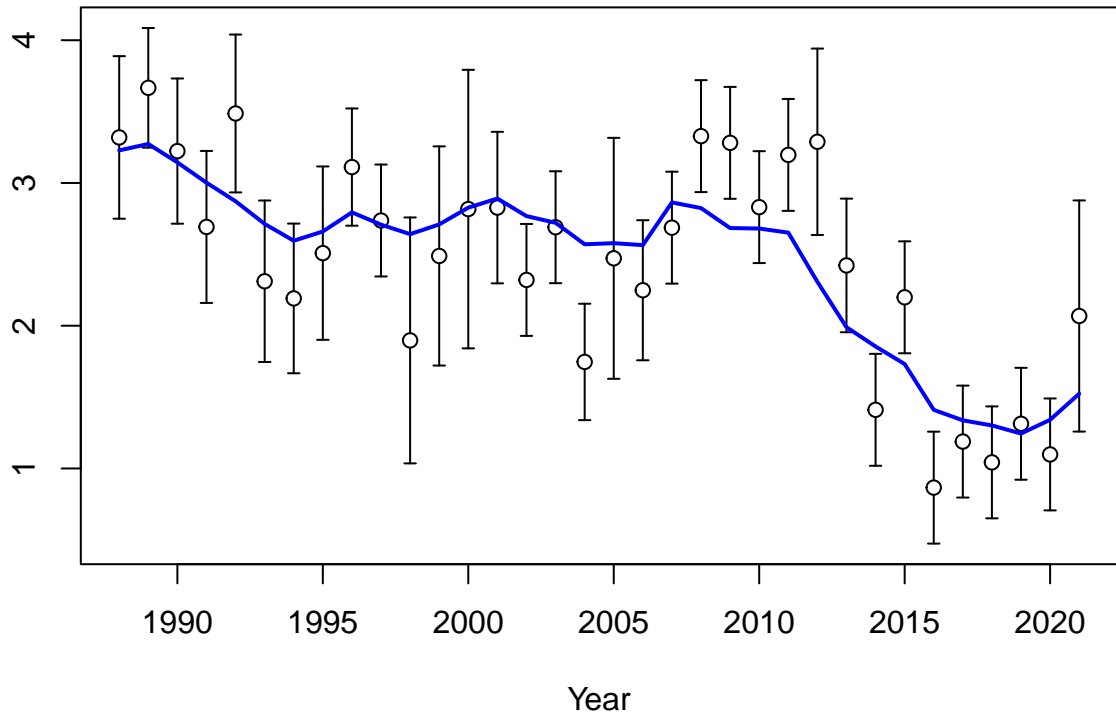
2015

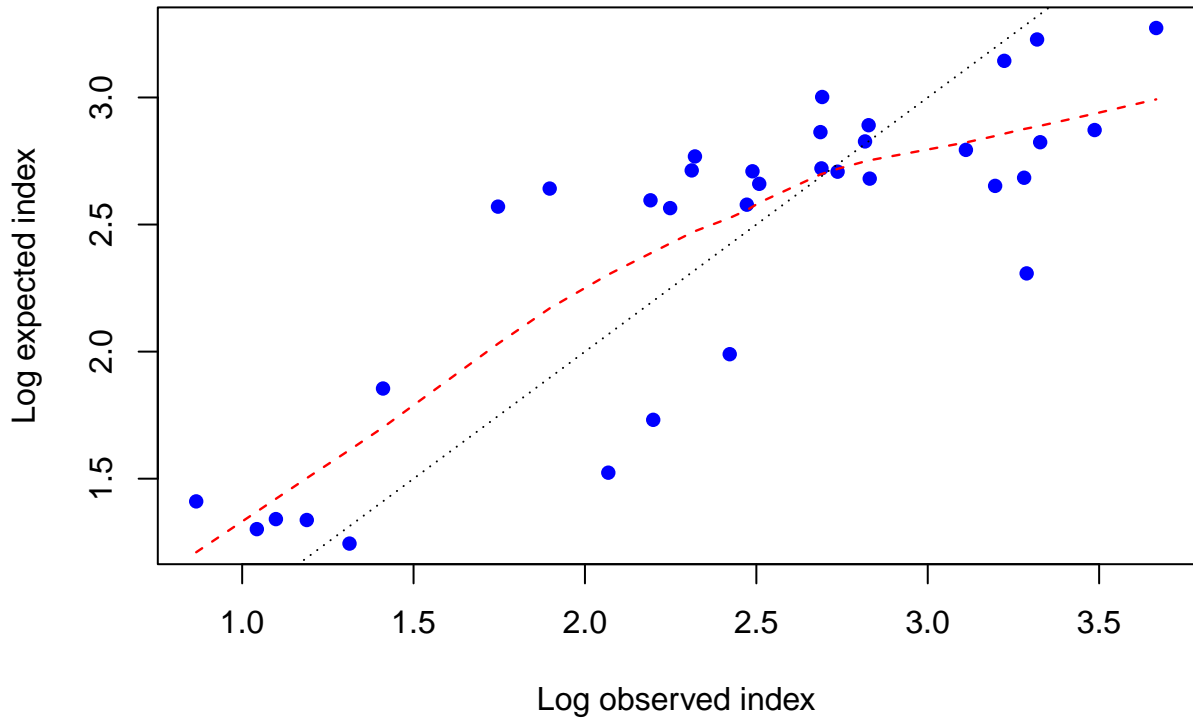
2020

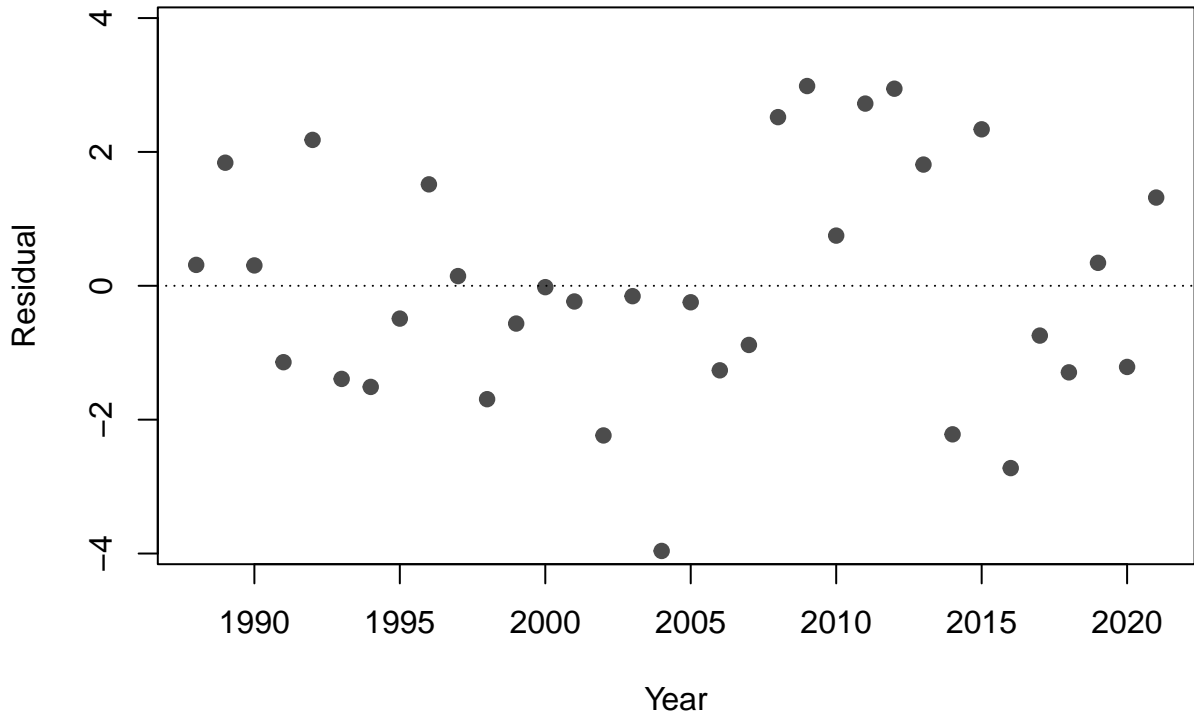
Year

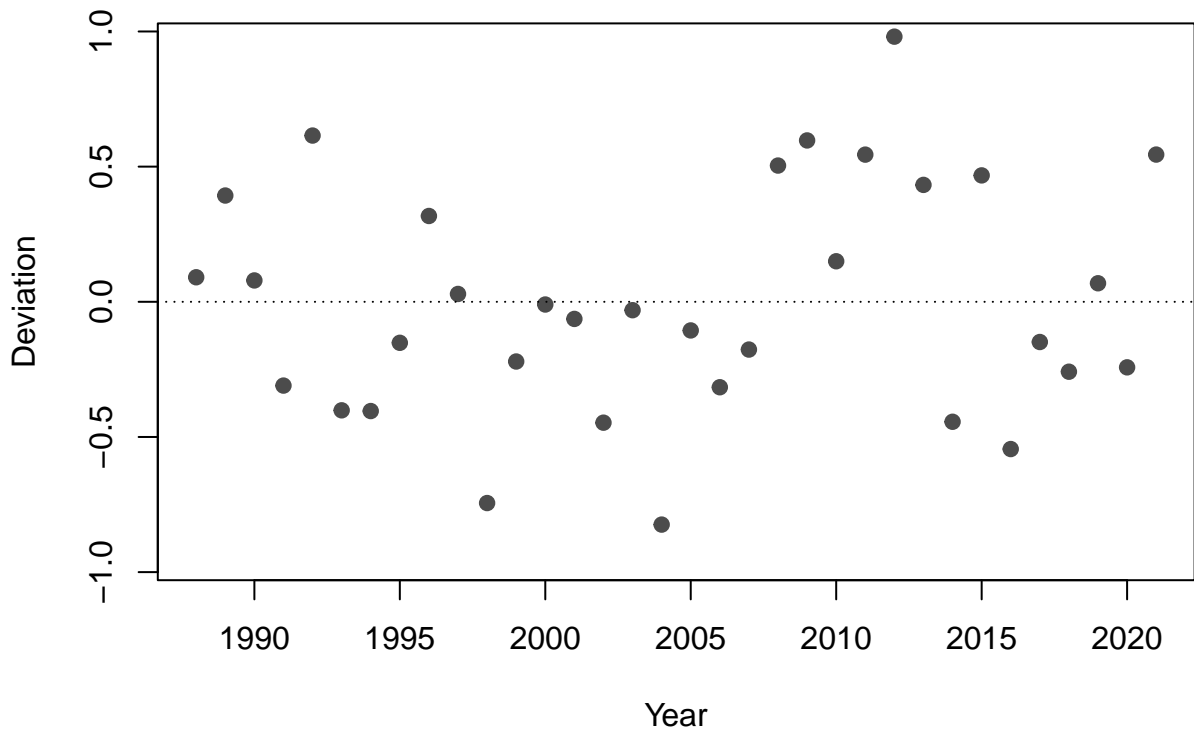


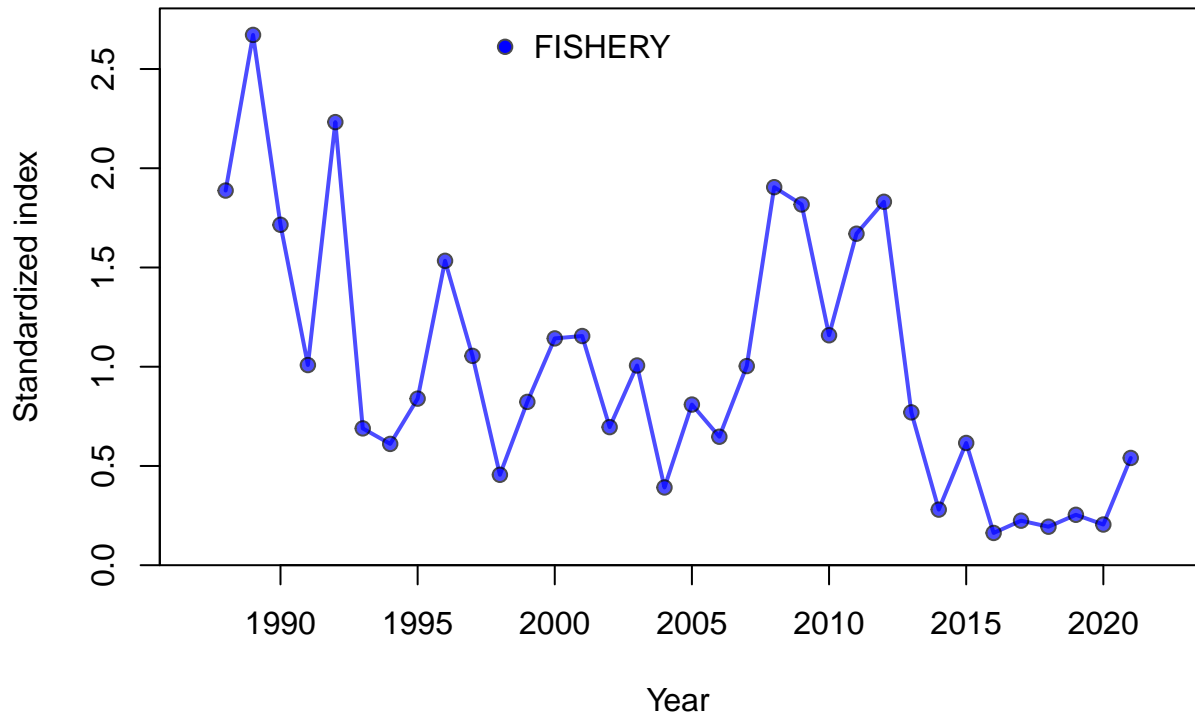
Log index

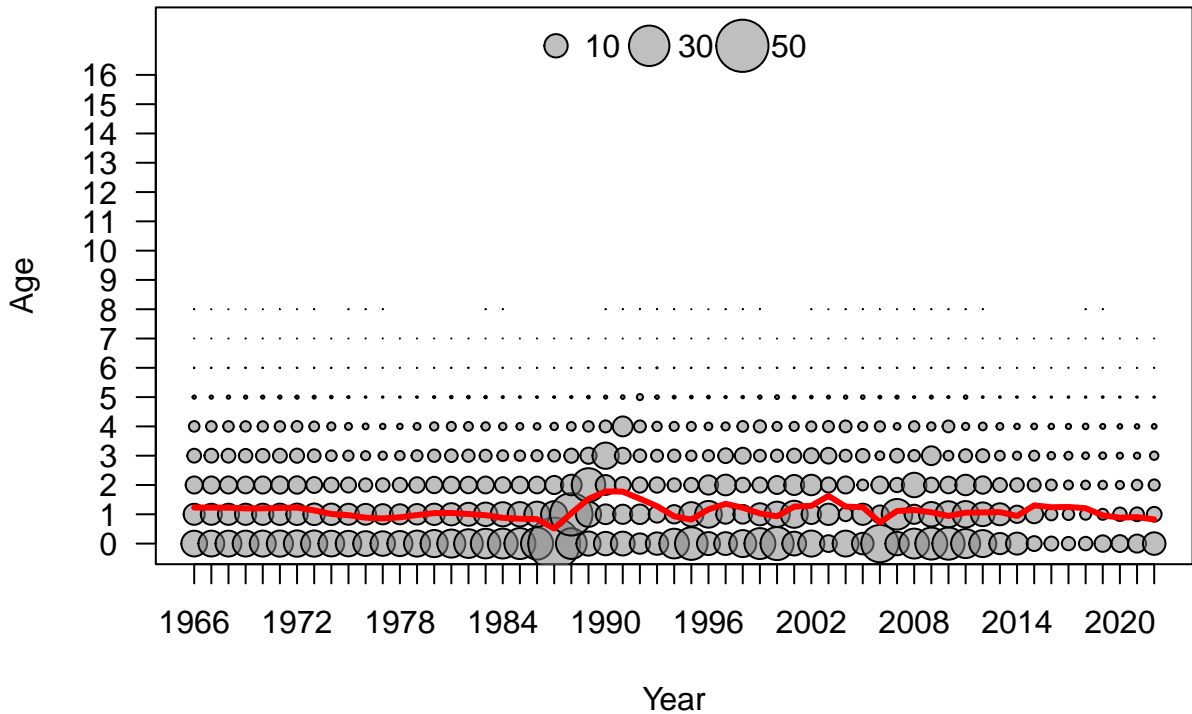




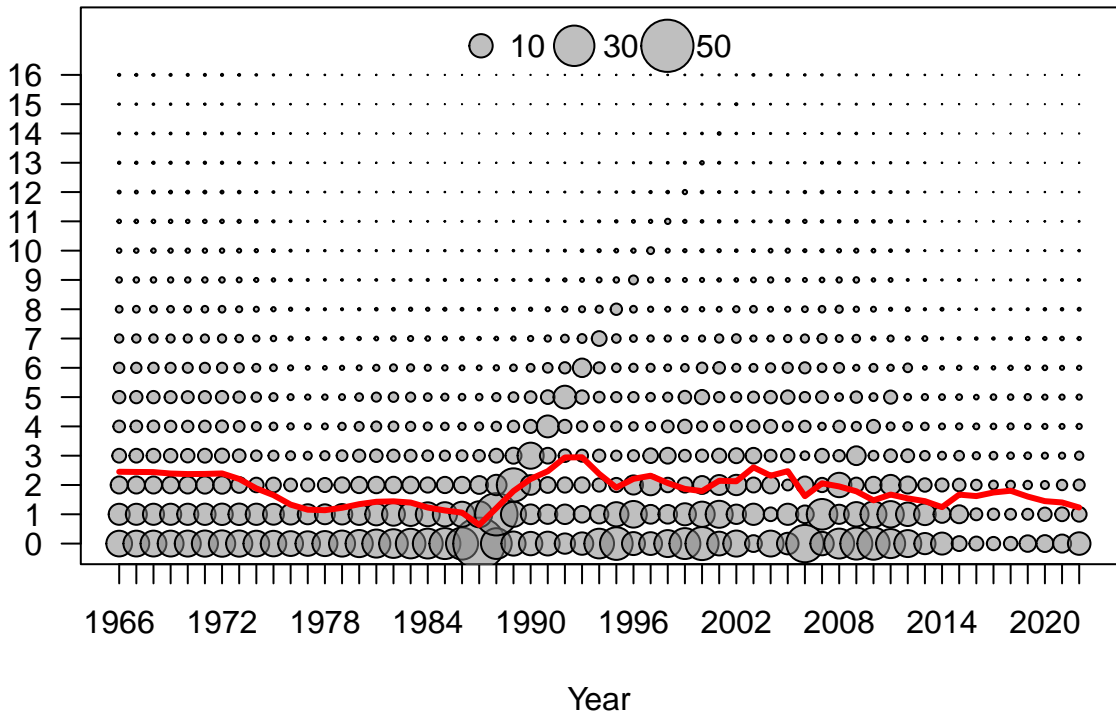


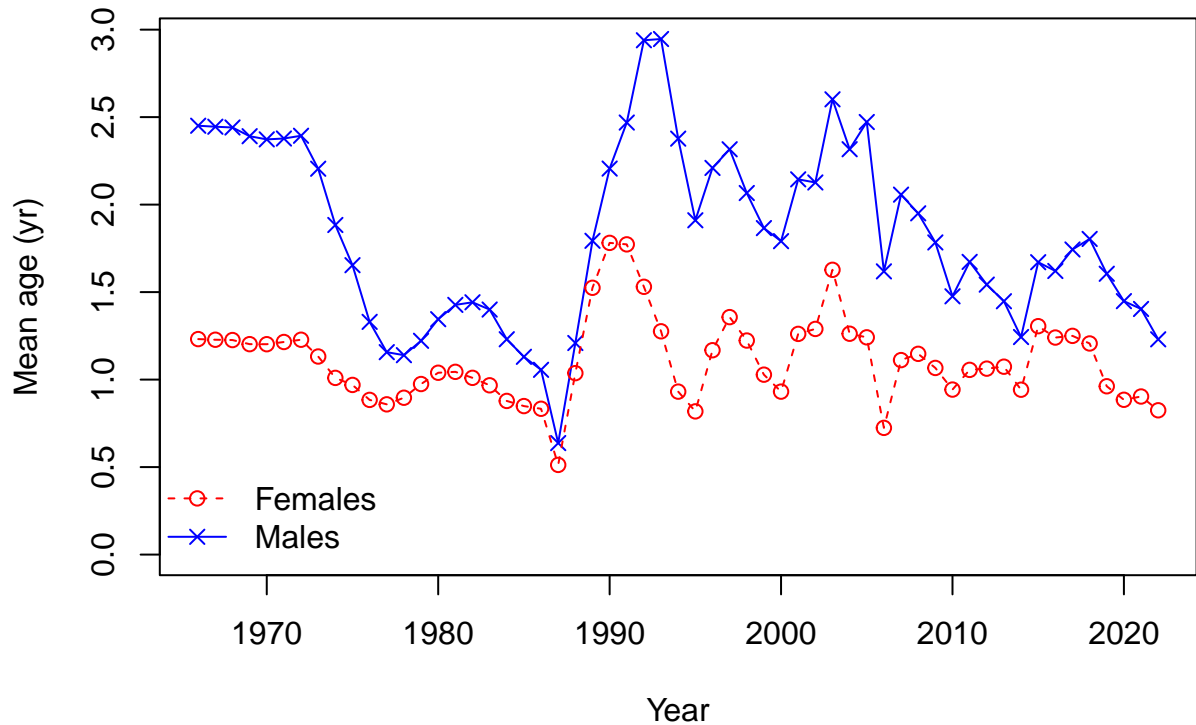




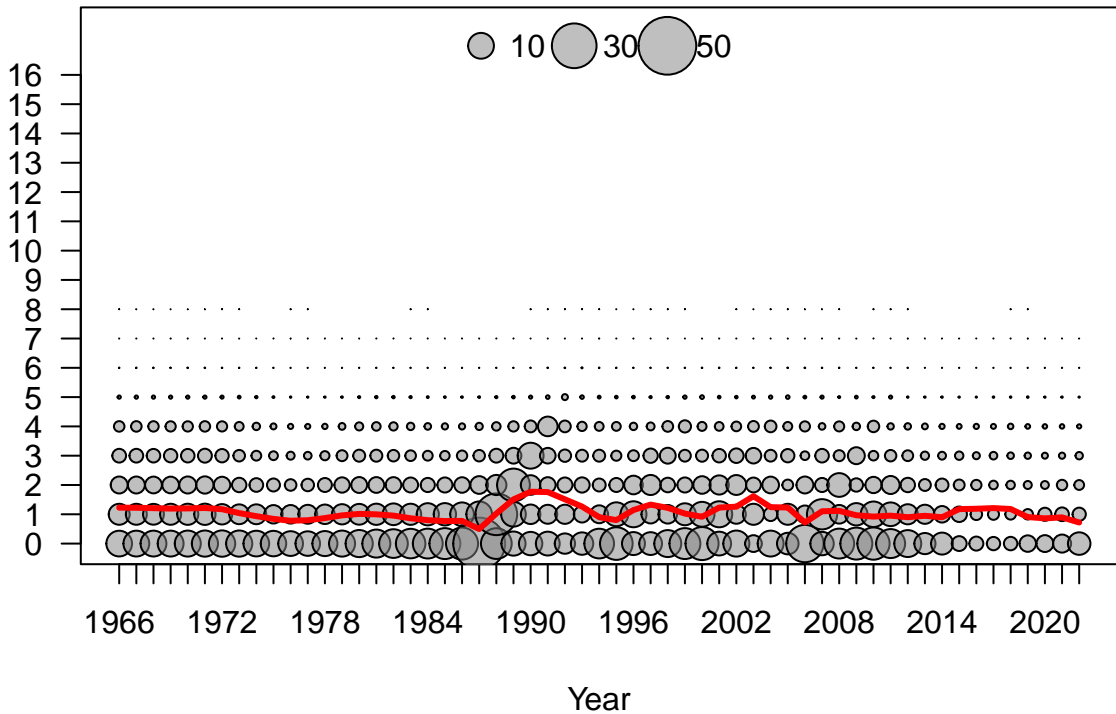


Age

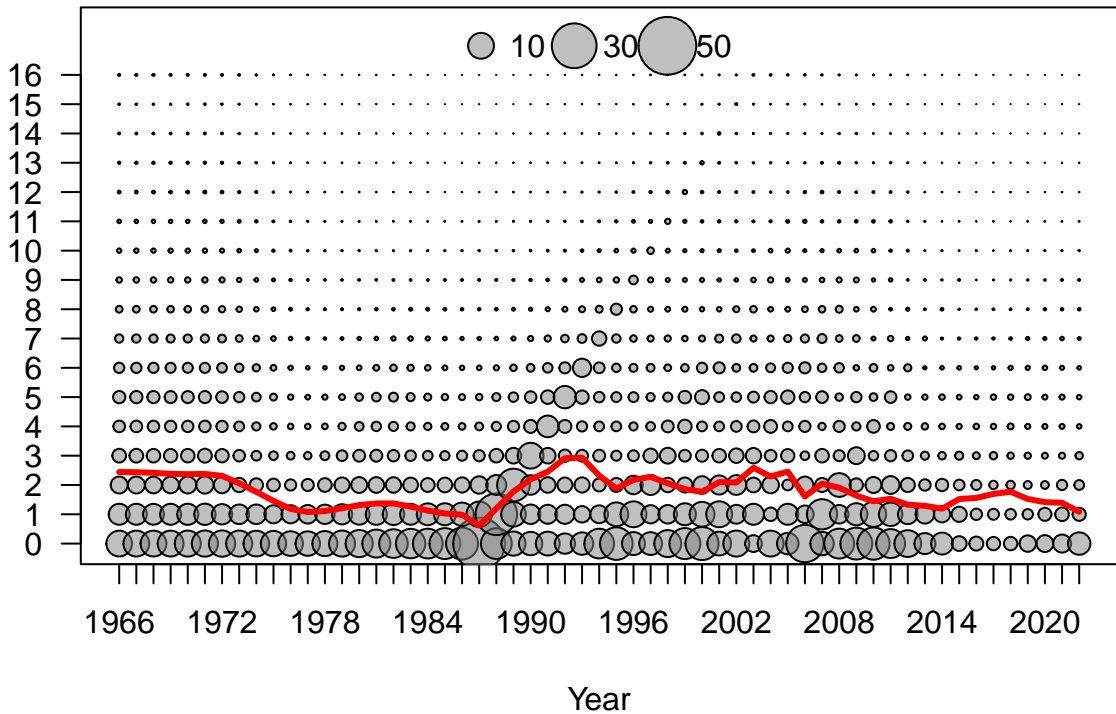




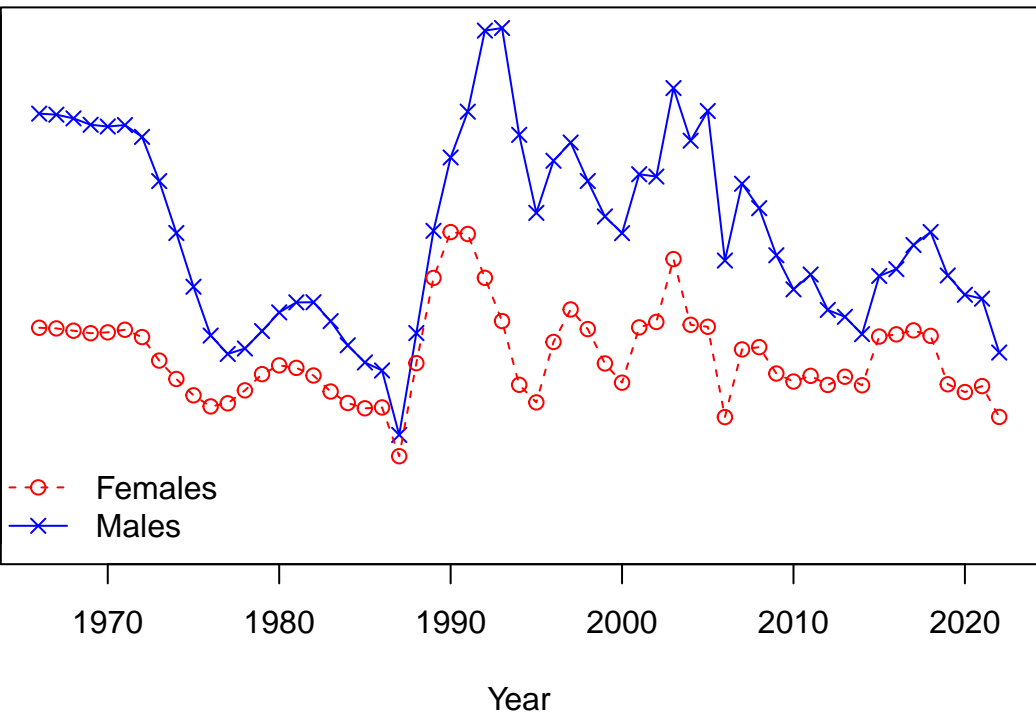
Age

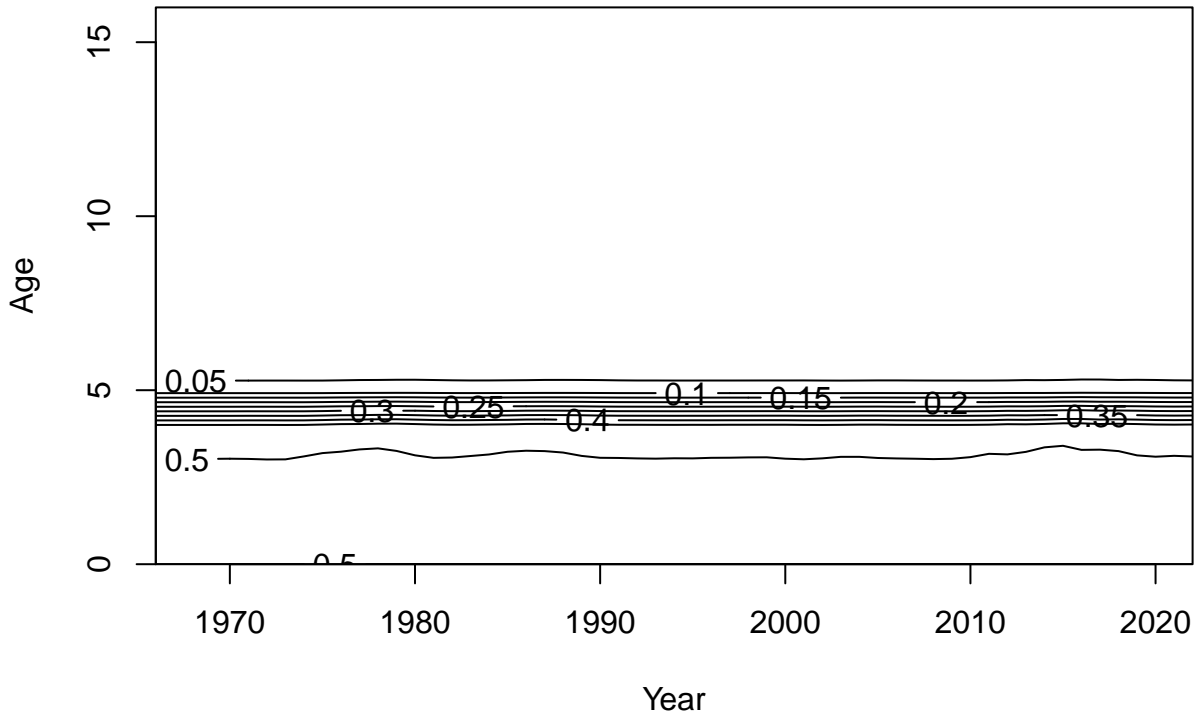


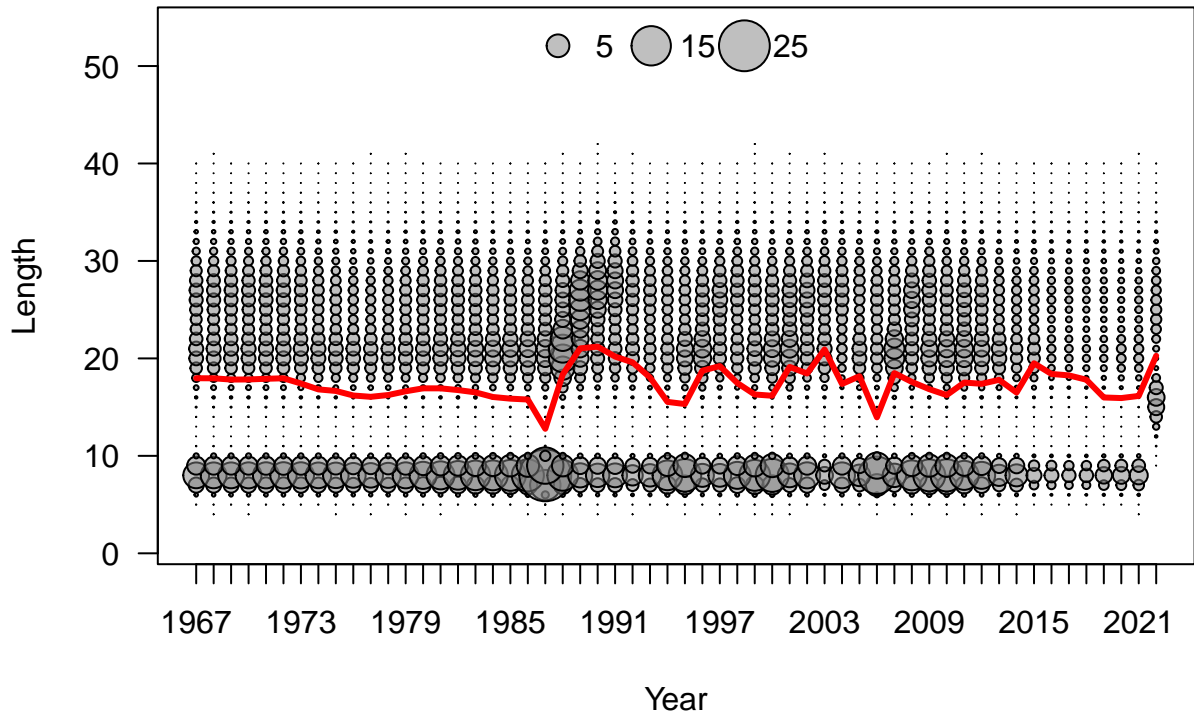
Age

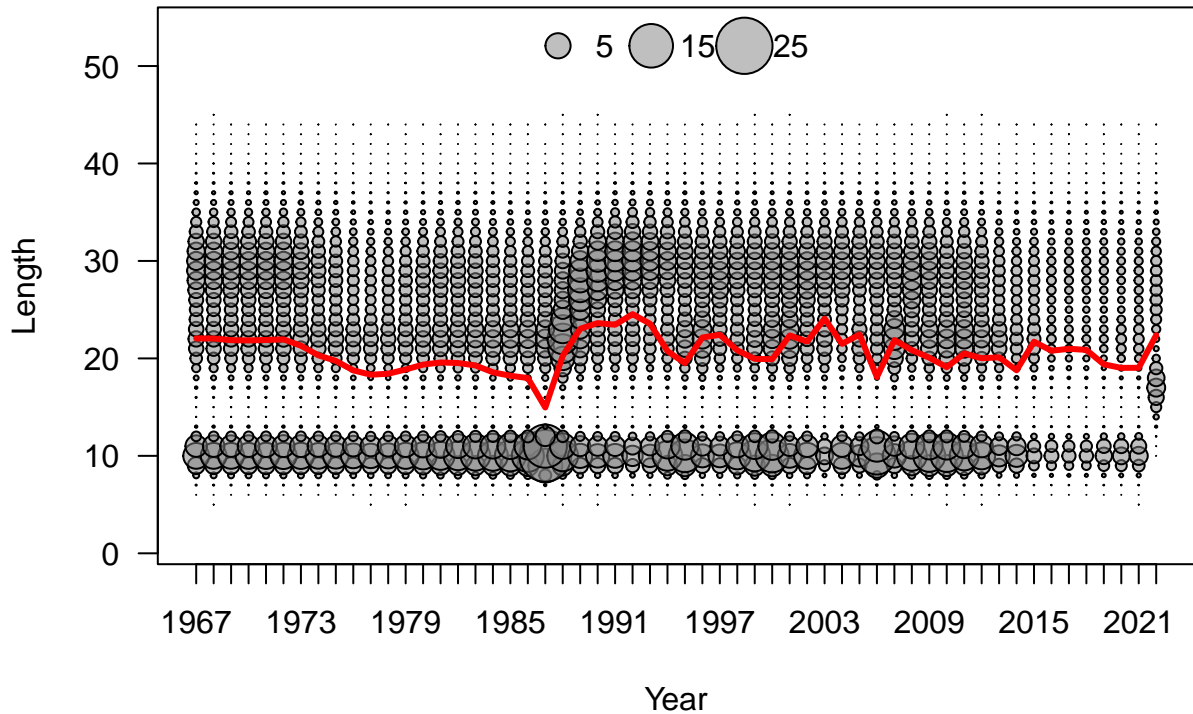


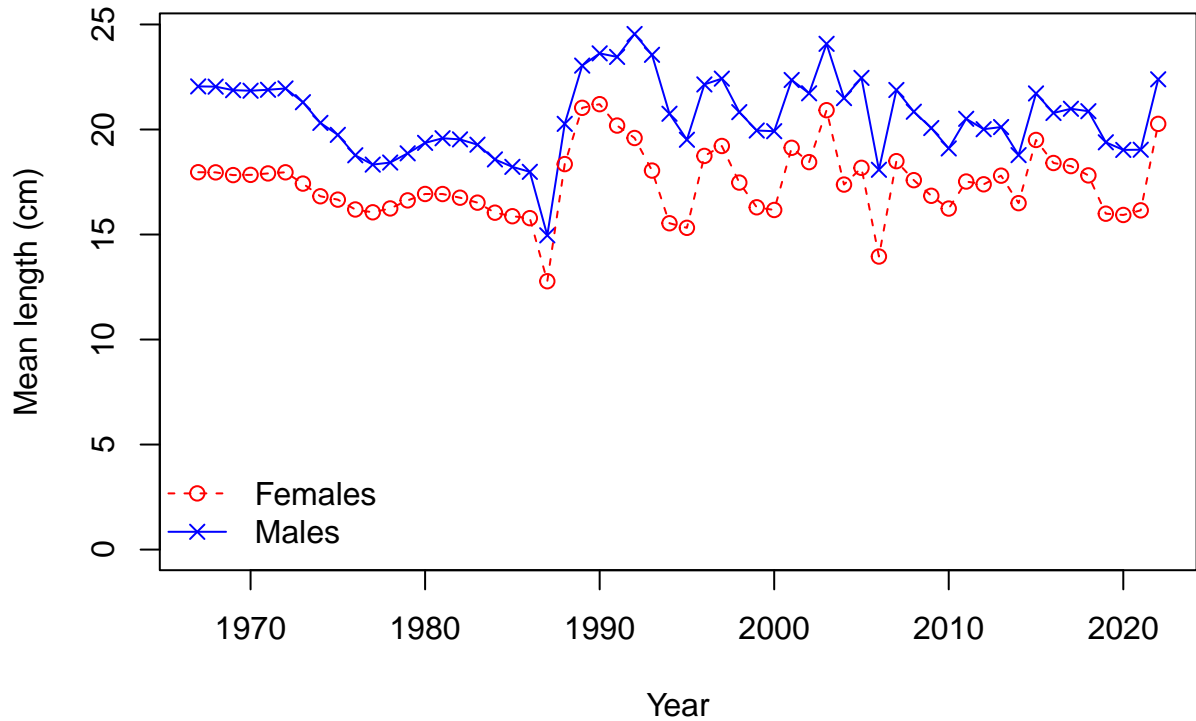
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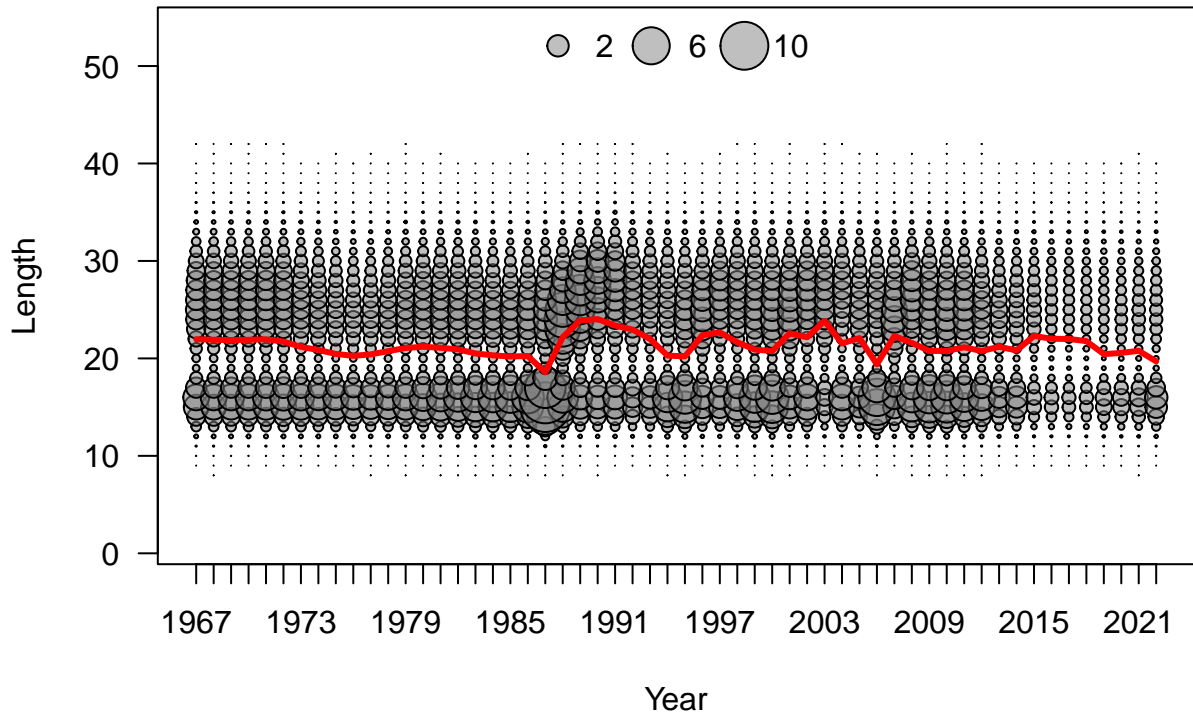


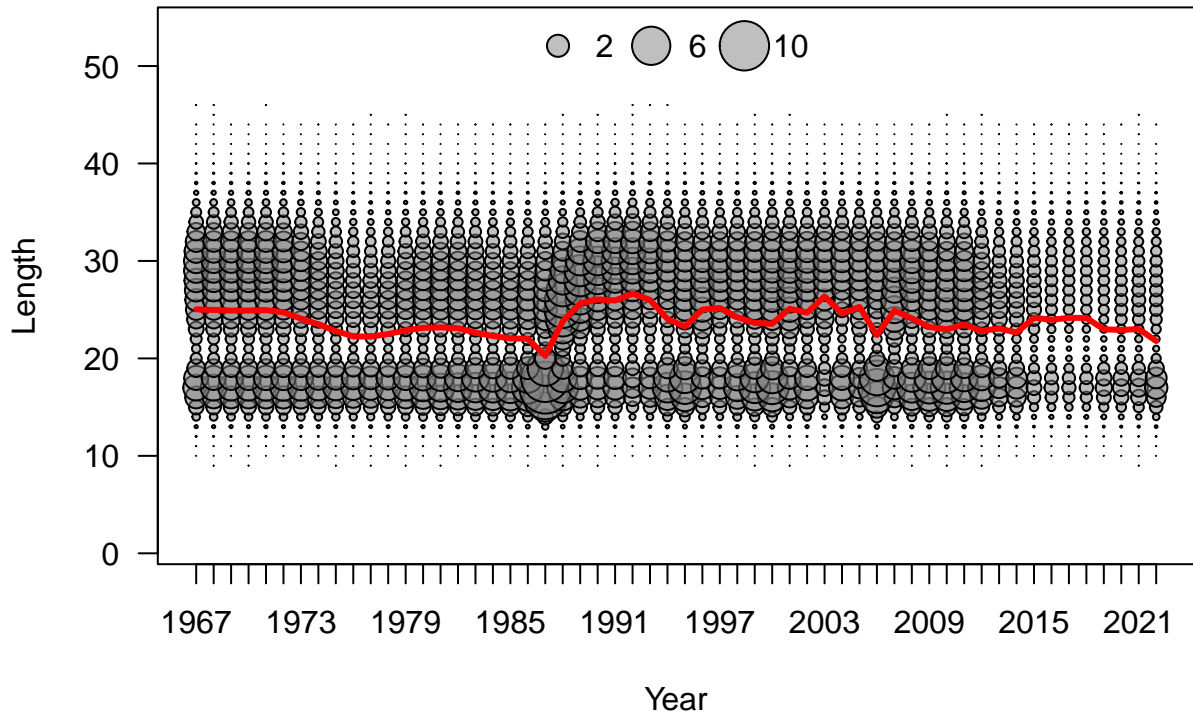


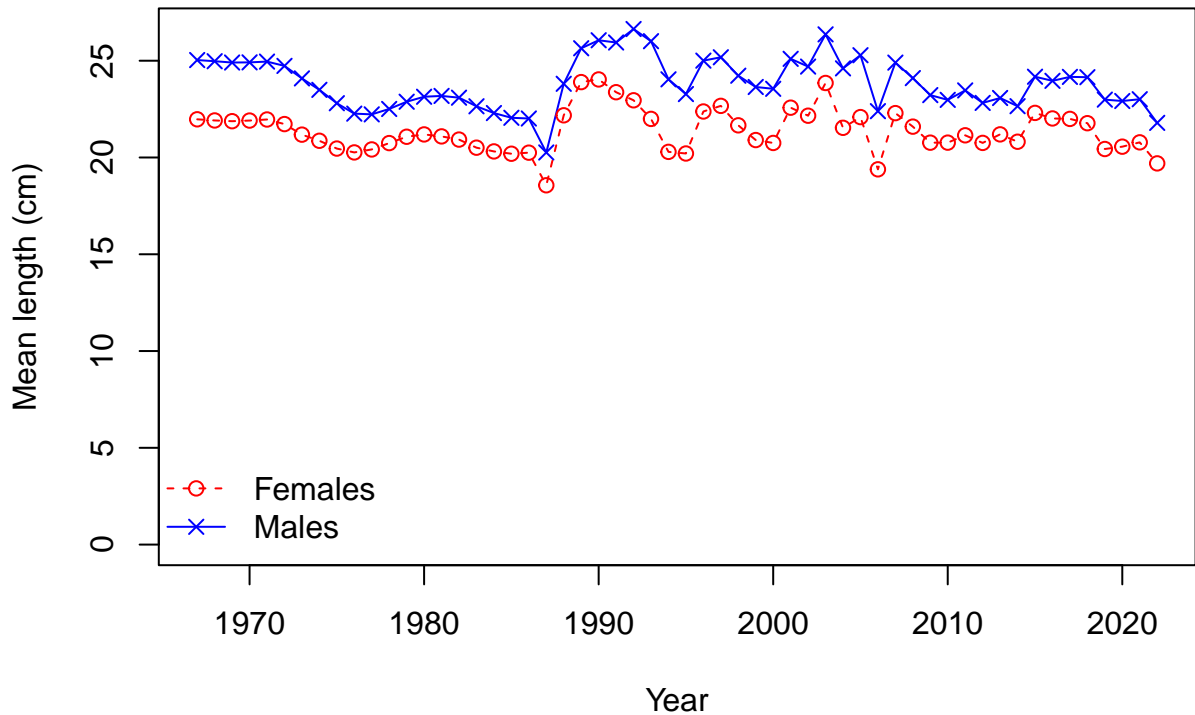


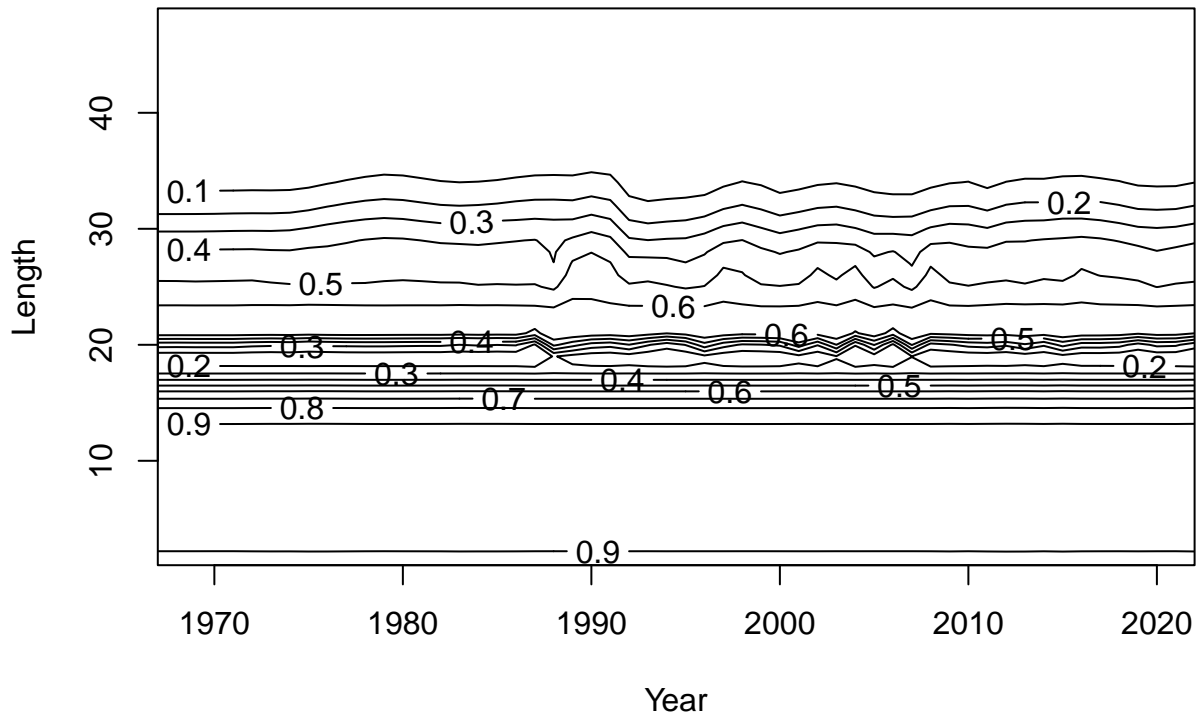


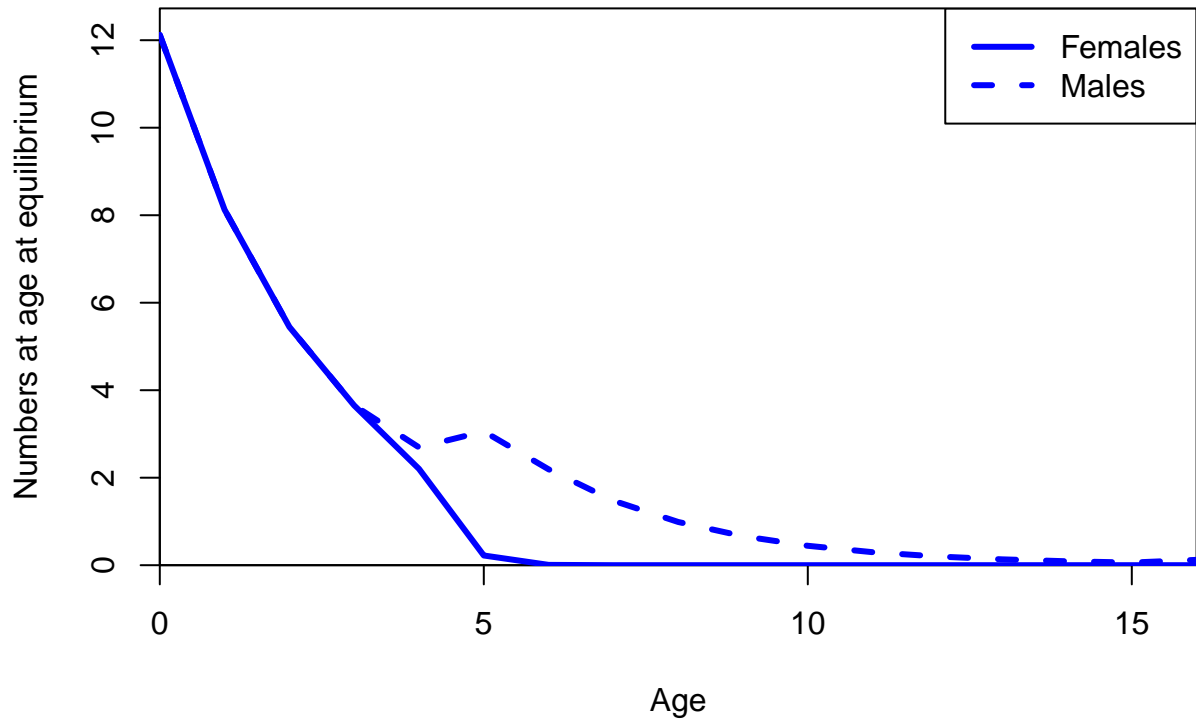


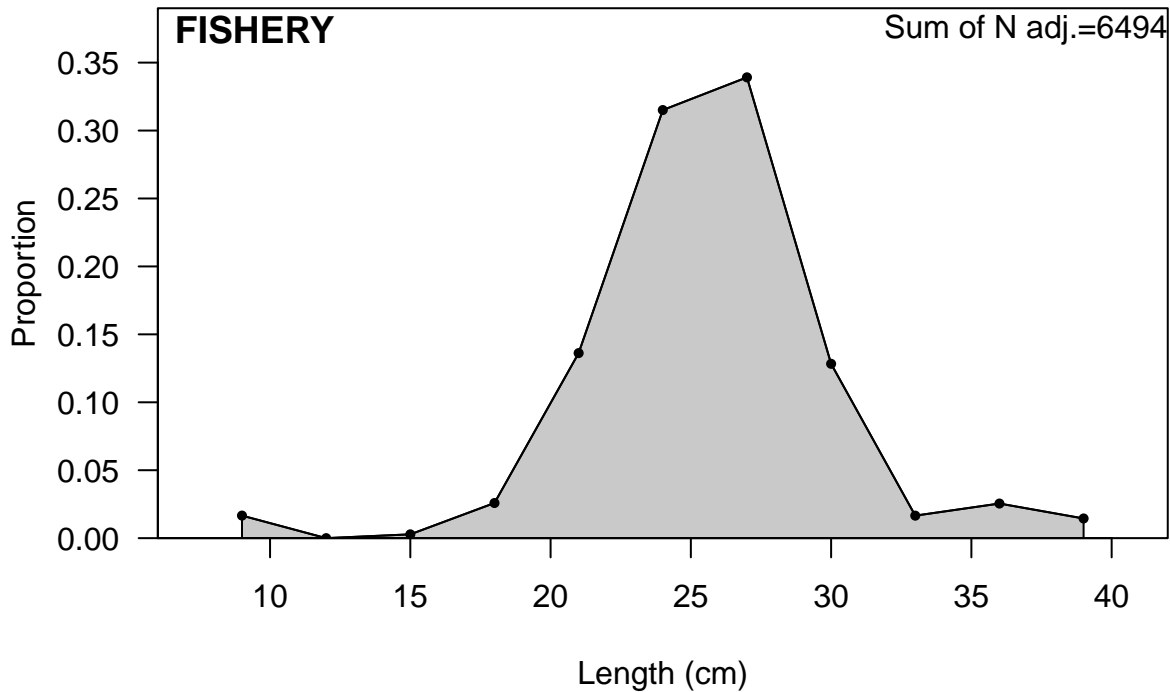


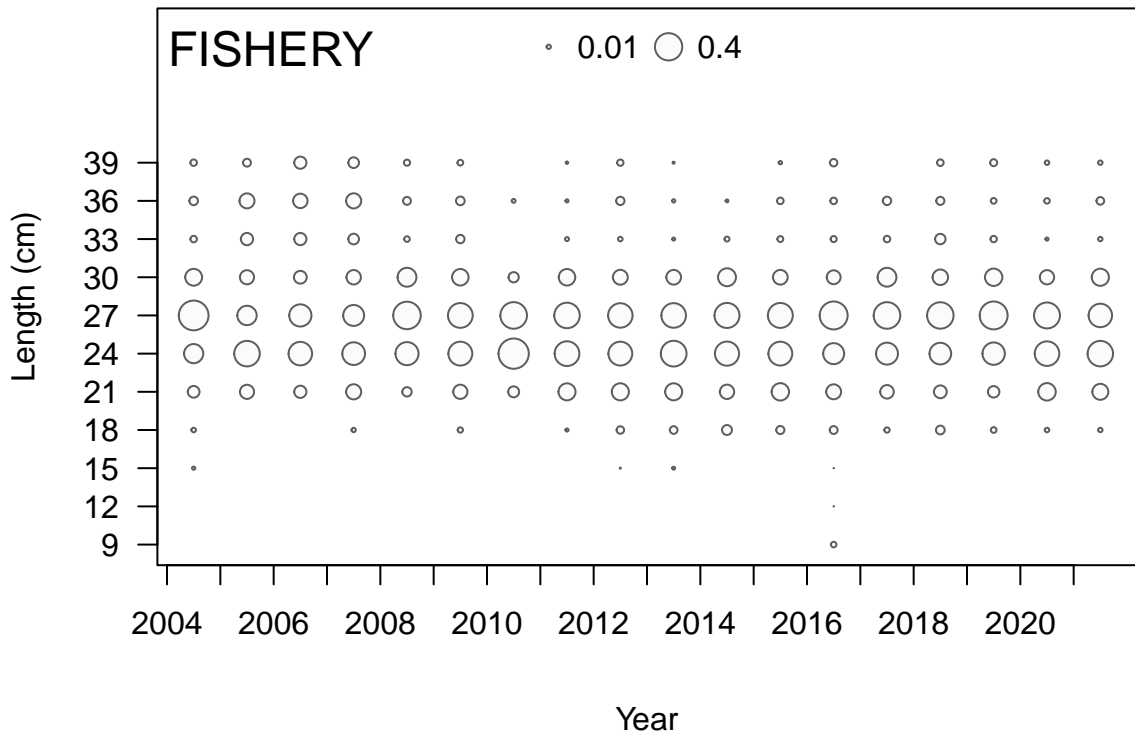




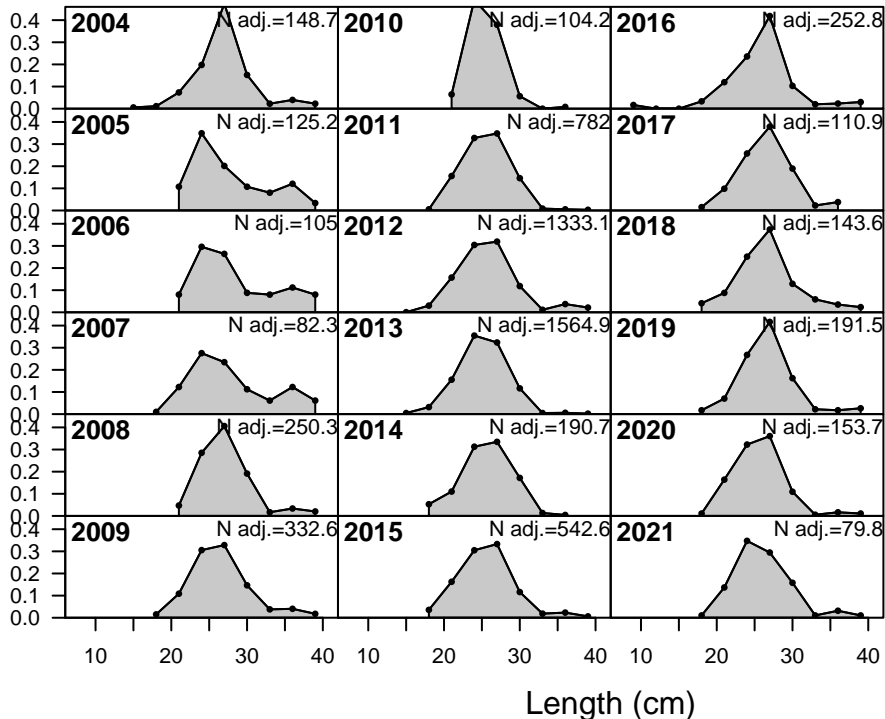


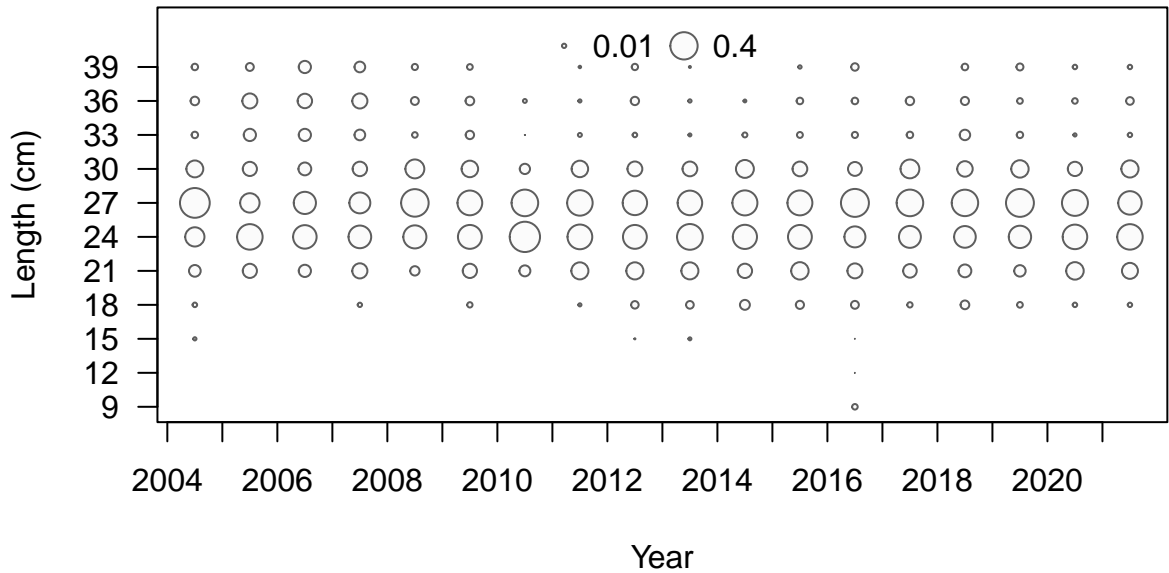




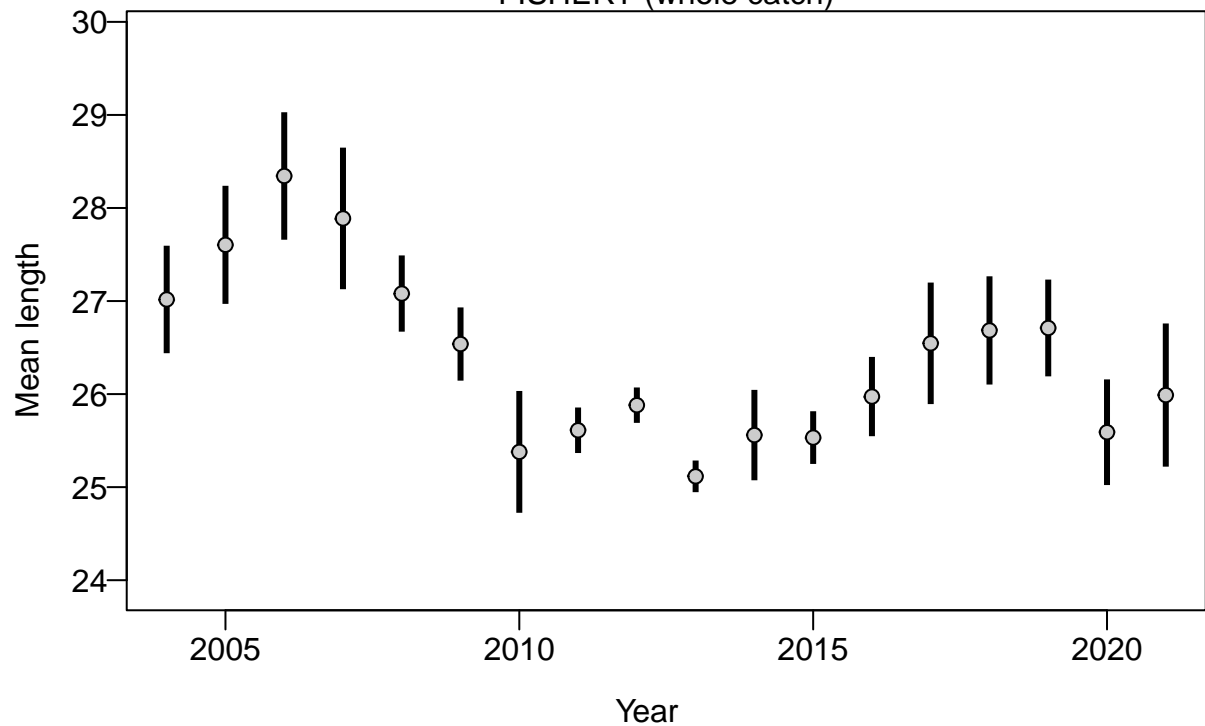


Proportion



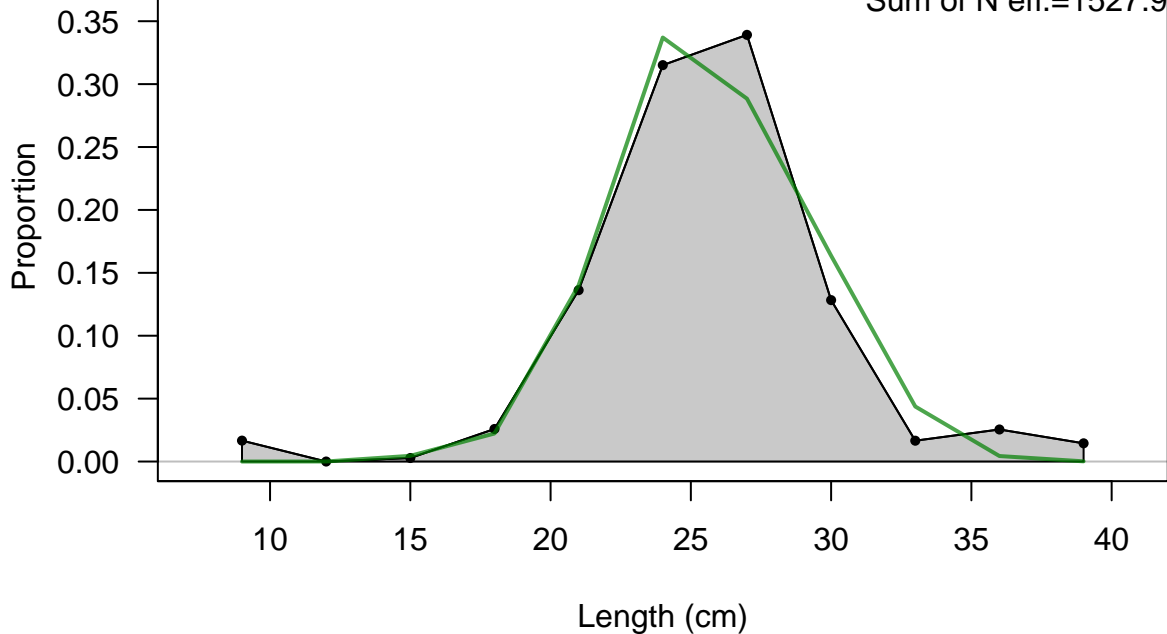


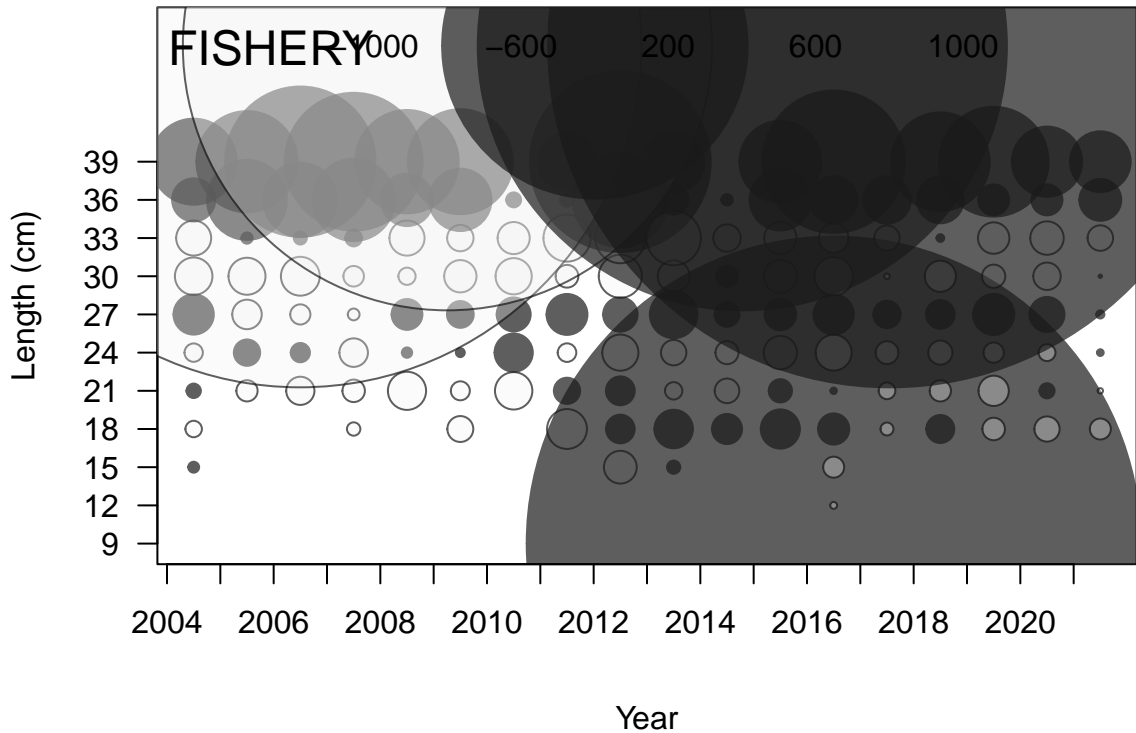
FISHERY (whole catch)



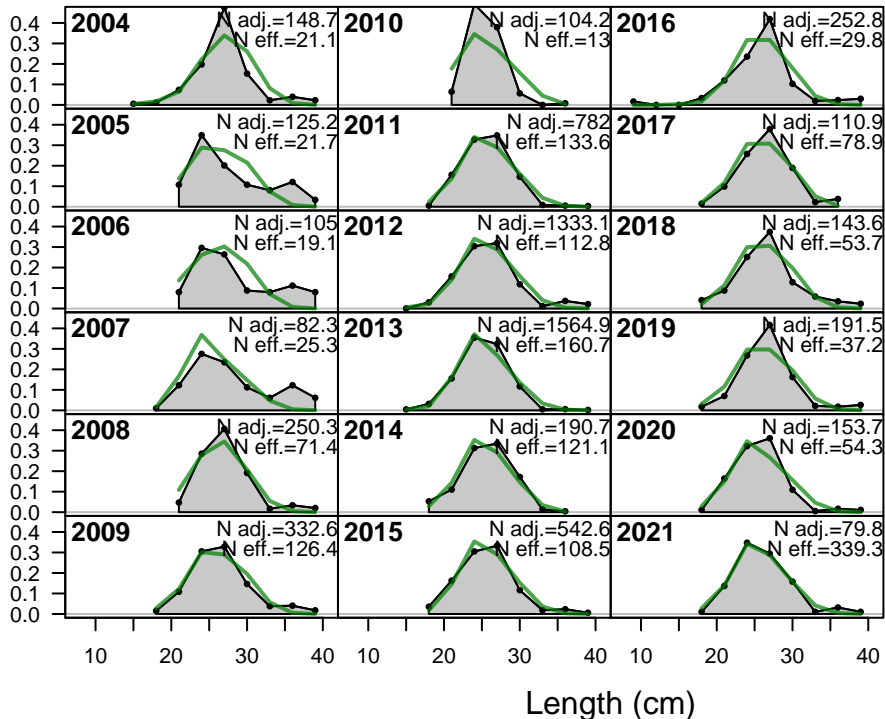
FISHERY

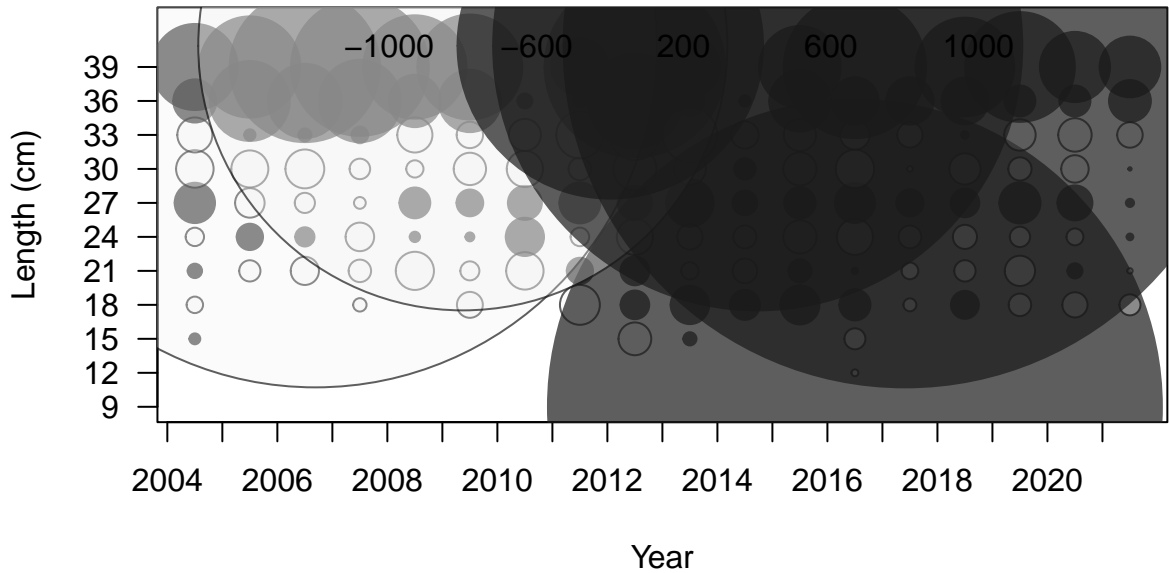
Sum of N adj.=6494
Sum of N eff.=1527.9



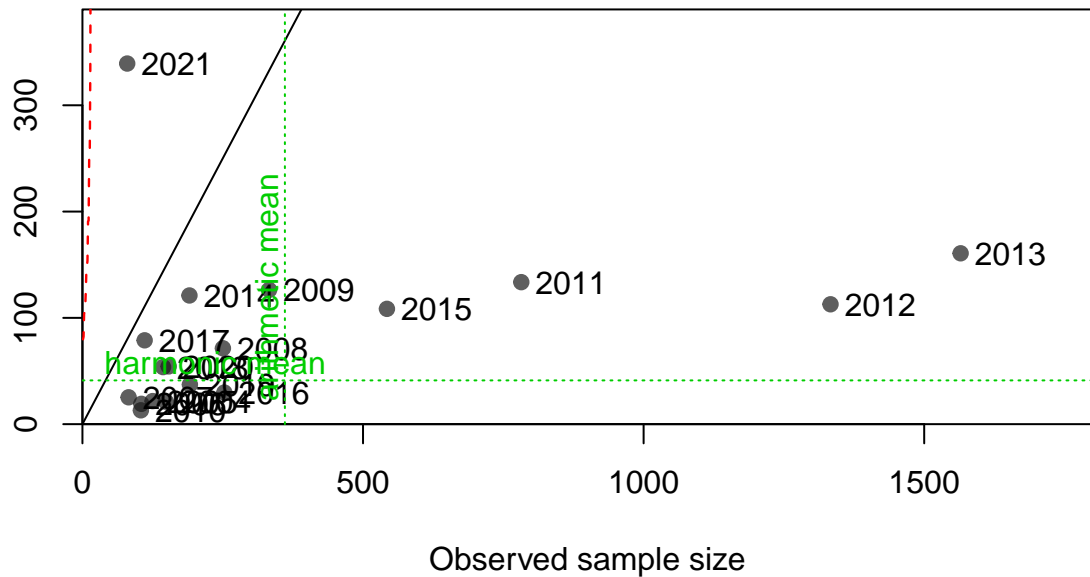


Proportion

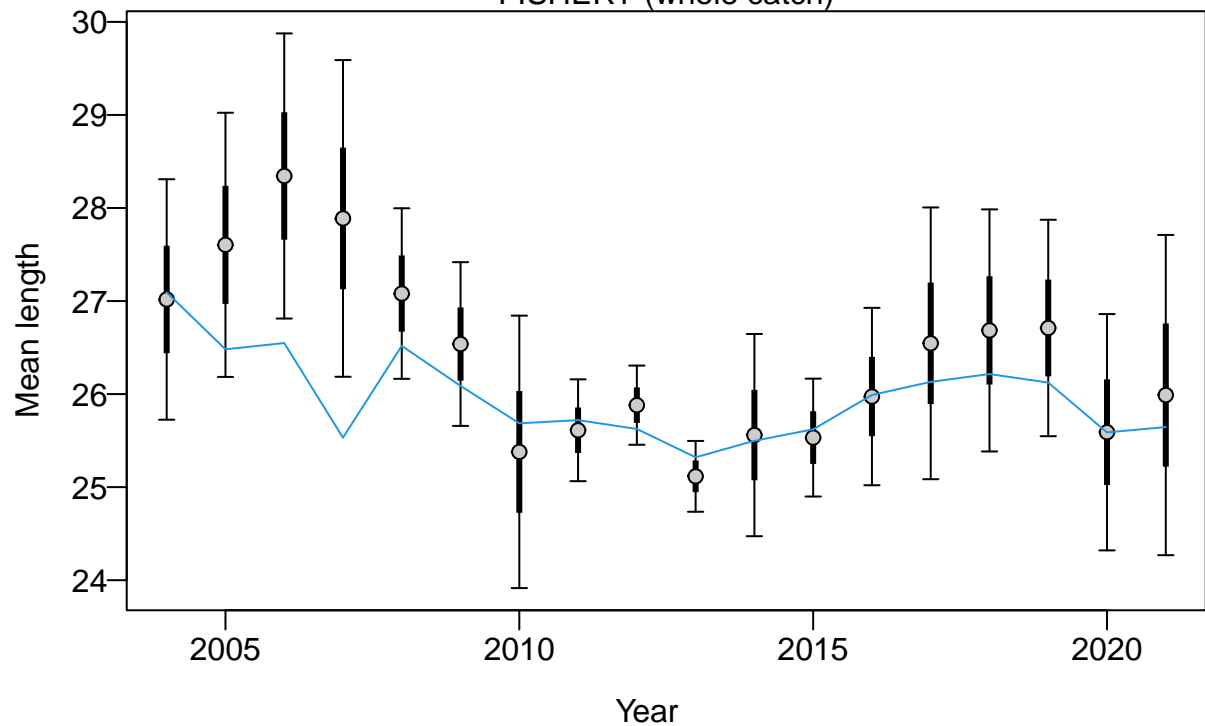


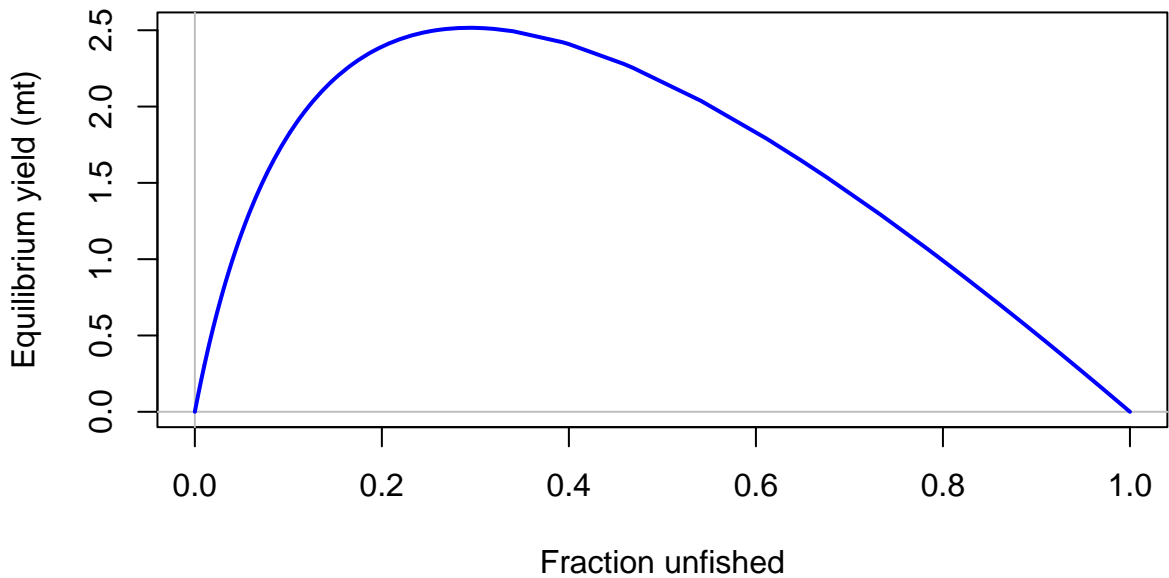


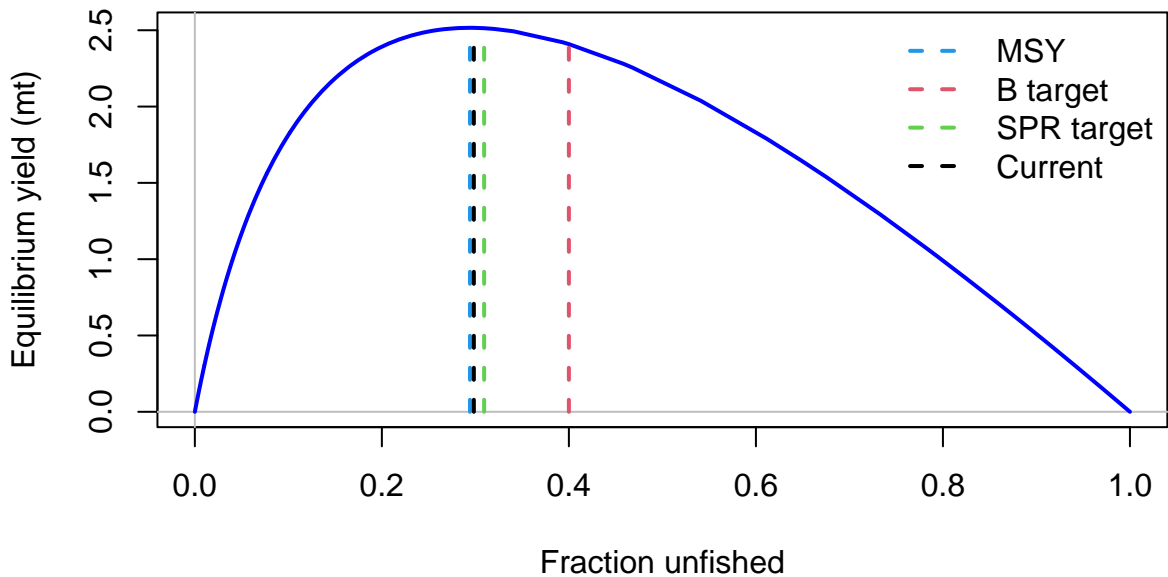
Effective sample size

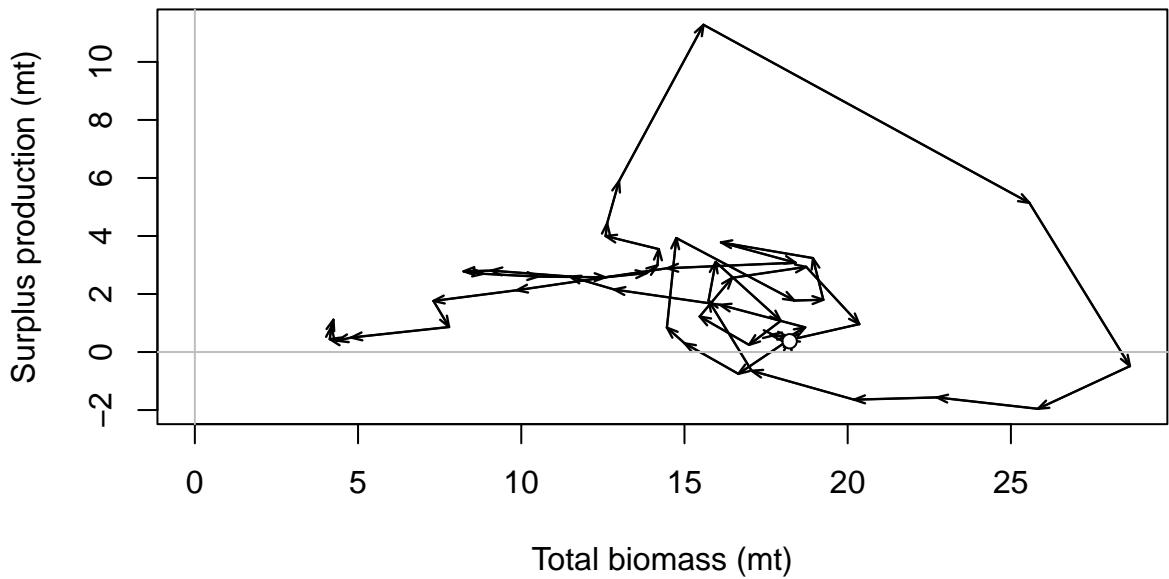


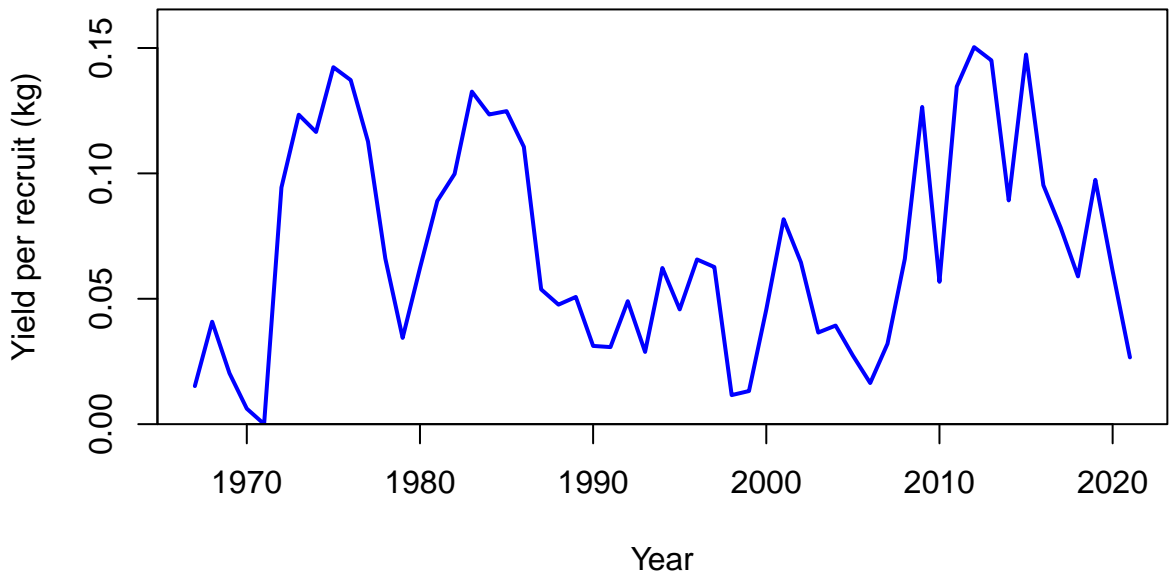
FISHERY (whole catch)

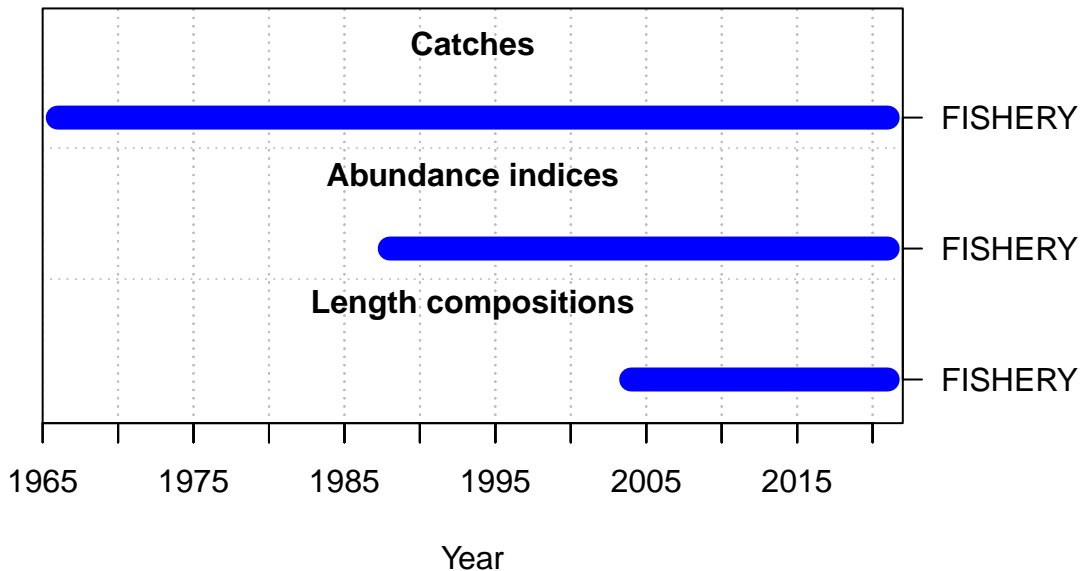


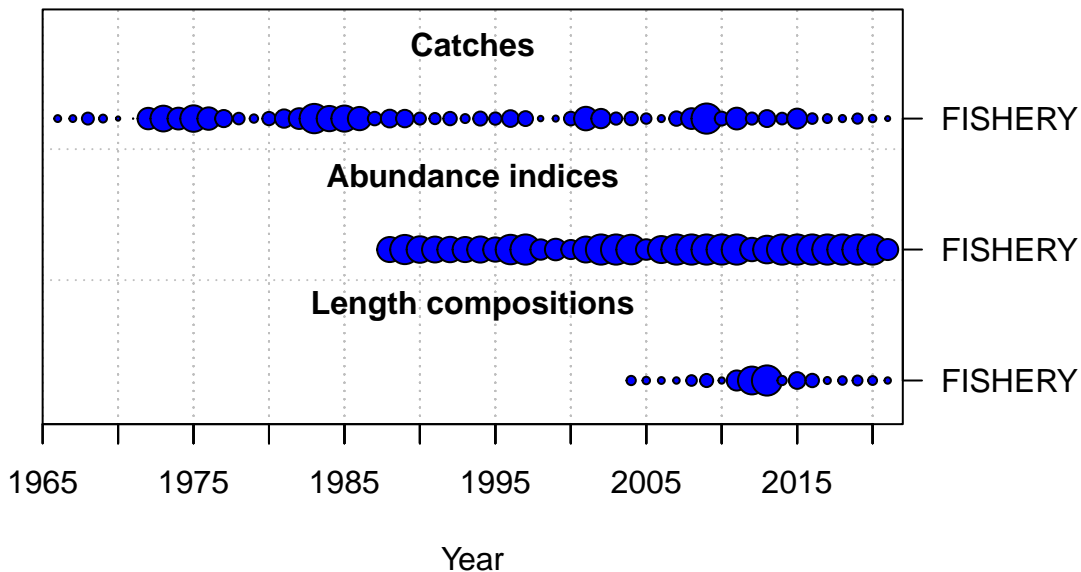




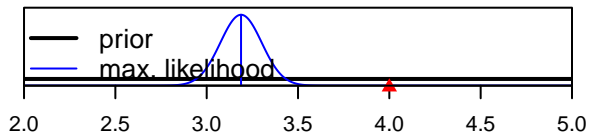




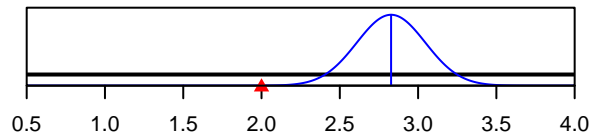




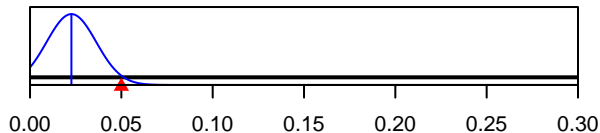
SR_LN(R0)



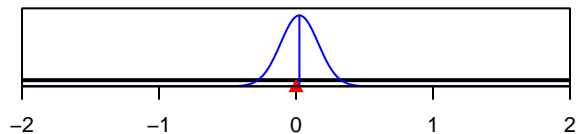
Size_95%width_FISHERY(1)



InitF_seas_1_flt_1FISHERY



LnQ_base_FISHERY(1)



Size_inflection_FISHERY(1)

