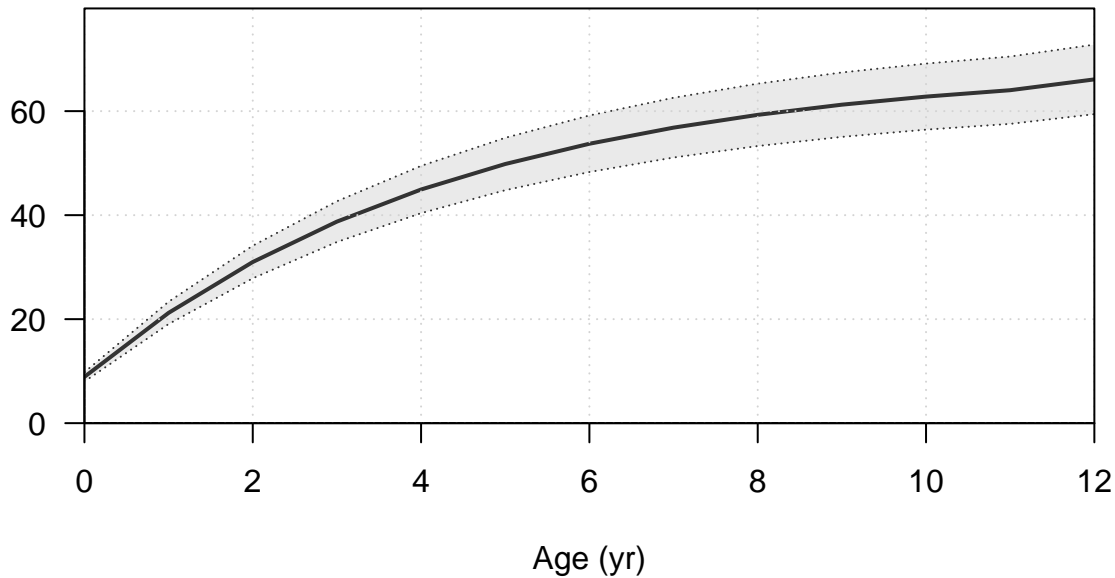
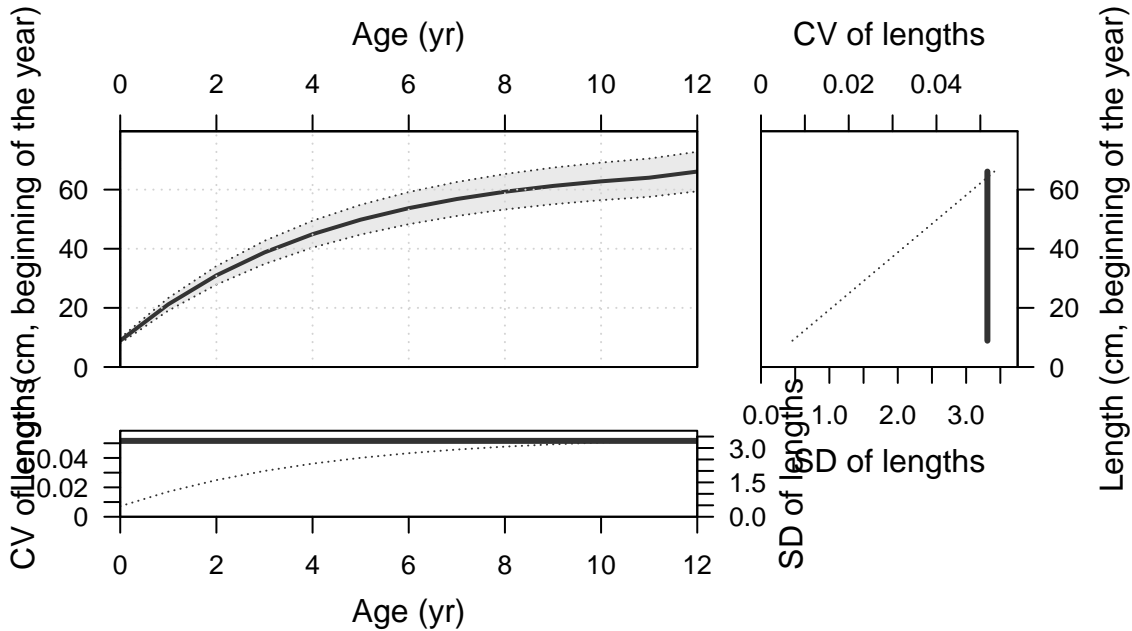
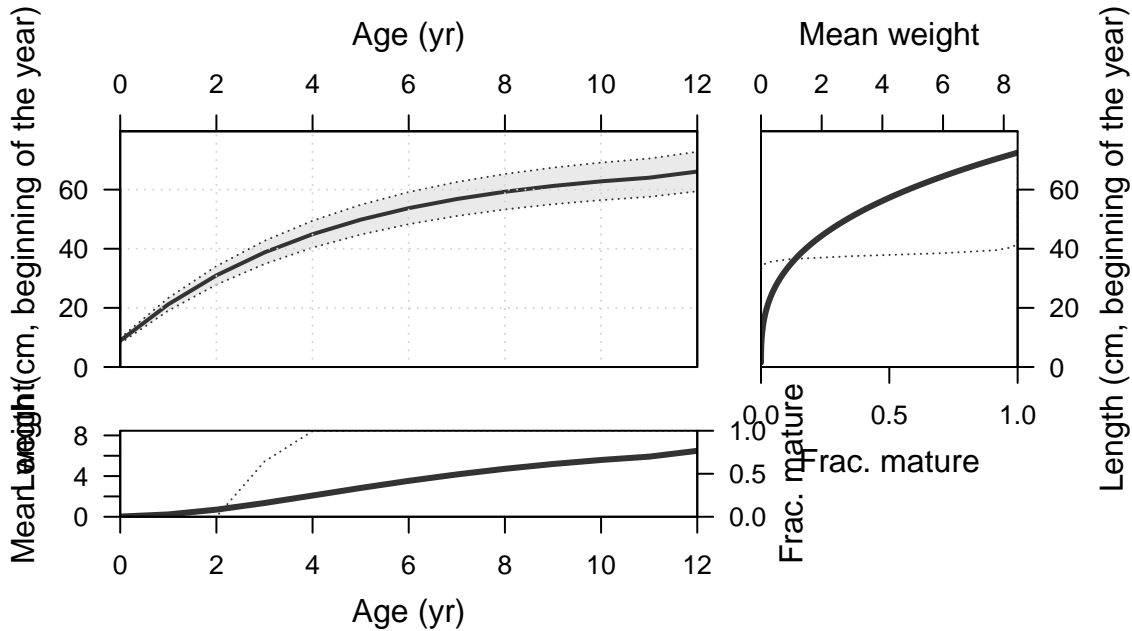


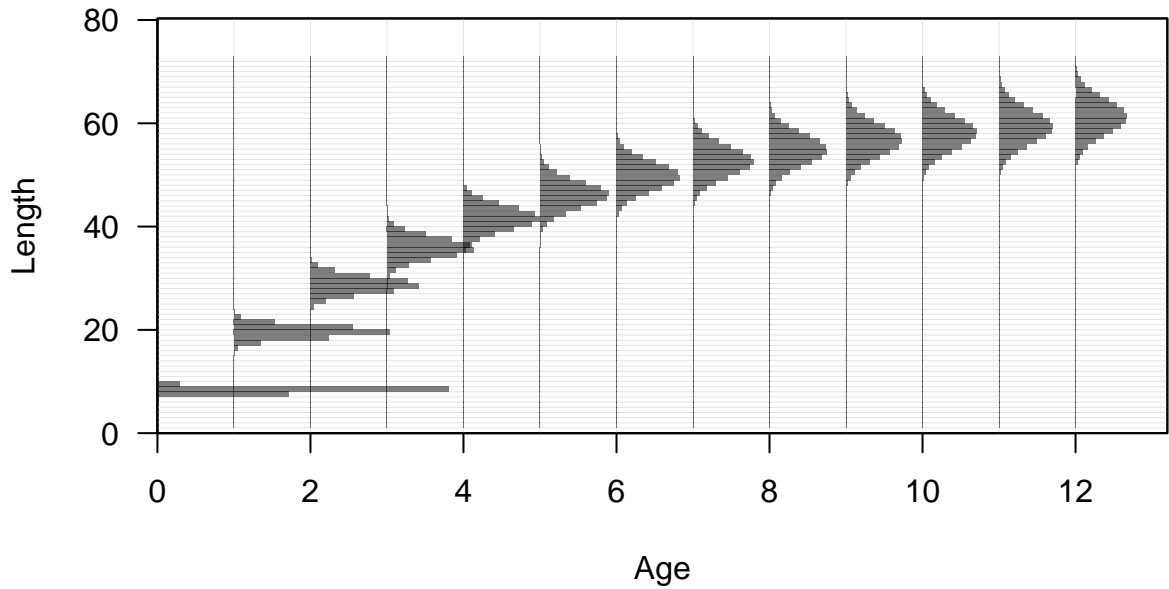
Plots created using the 'r4ss' package in R
Stock Synthesis version: 3.30.19.0
StartTime: Tue Jan 24 12:02:20 2023
Data_File: data.ss
Control_File: control.ss

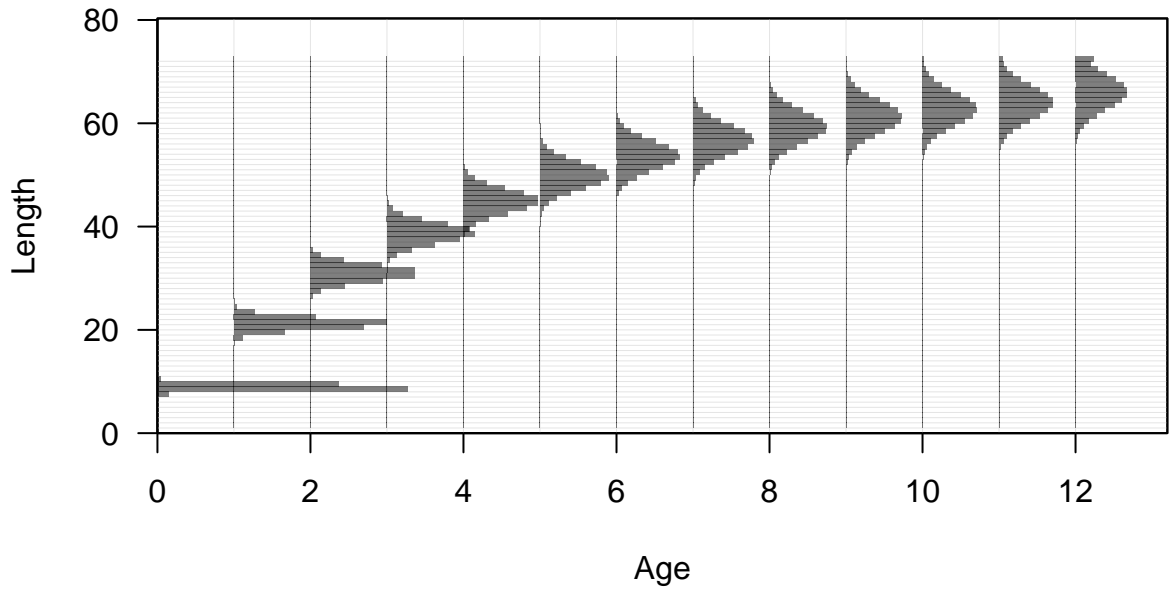
Length (cm, beginning of the year)

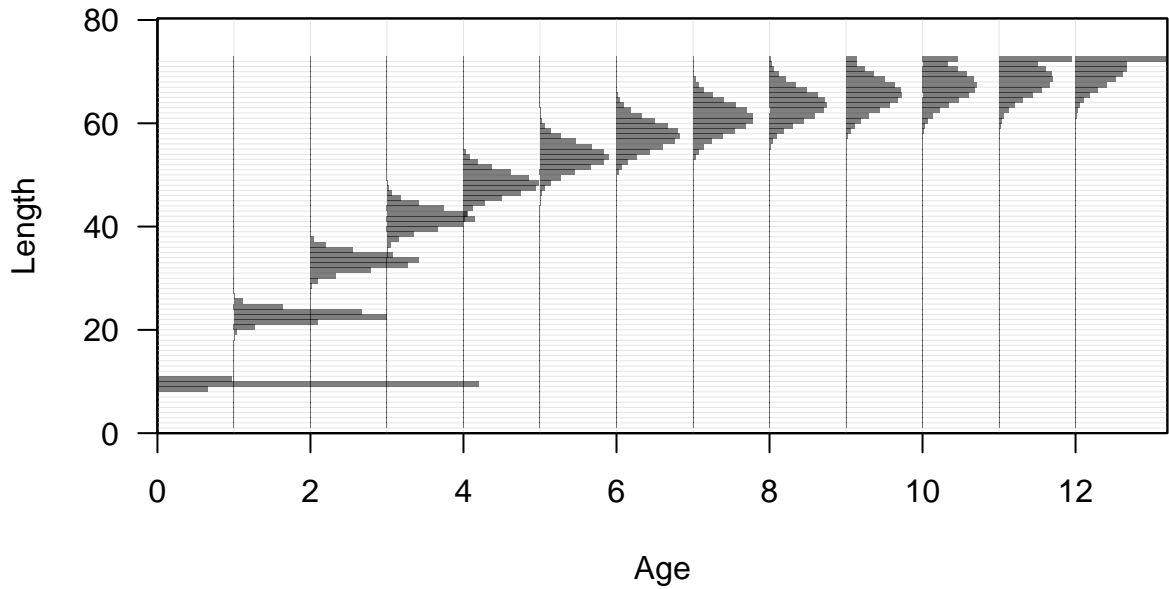


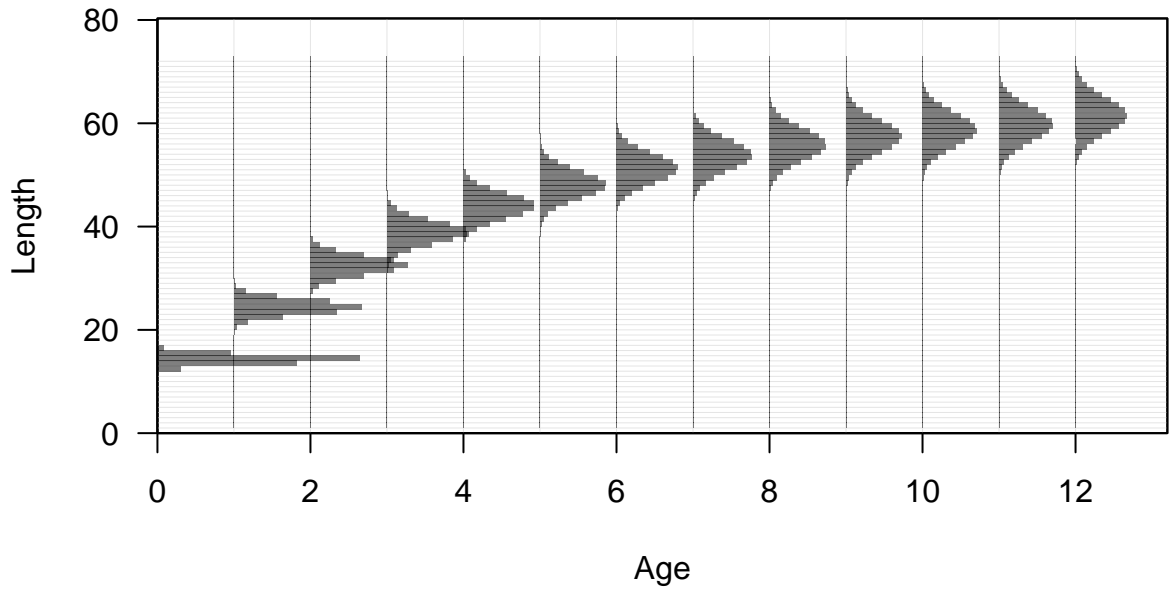


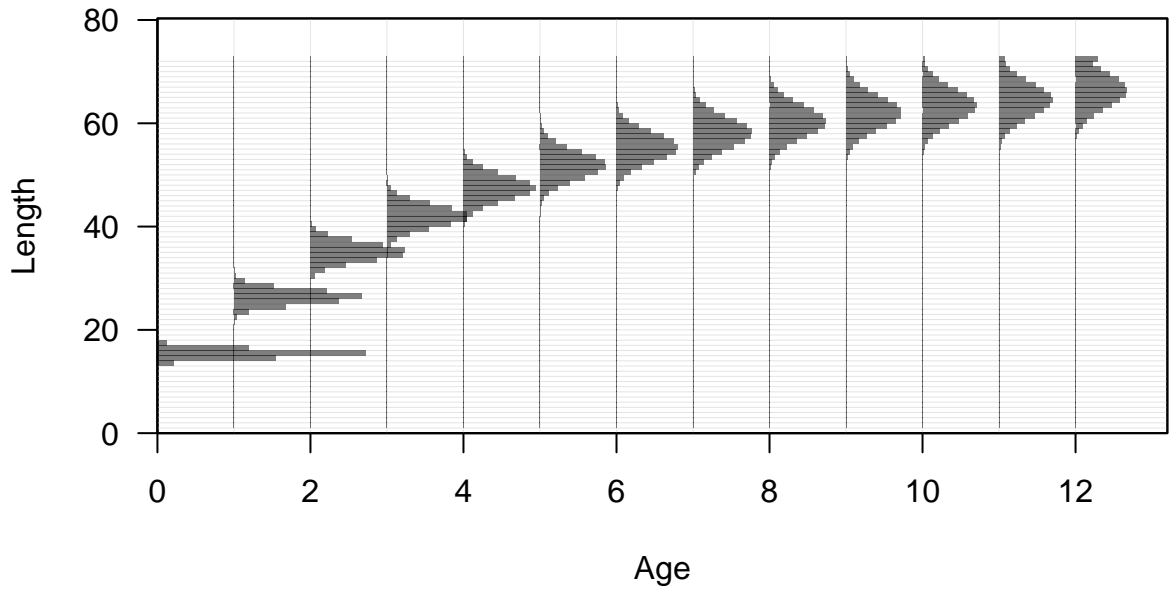


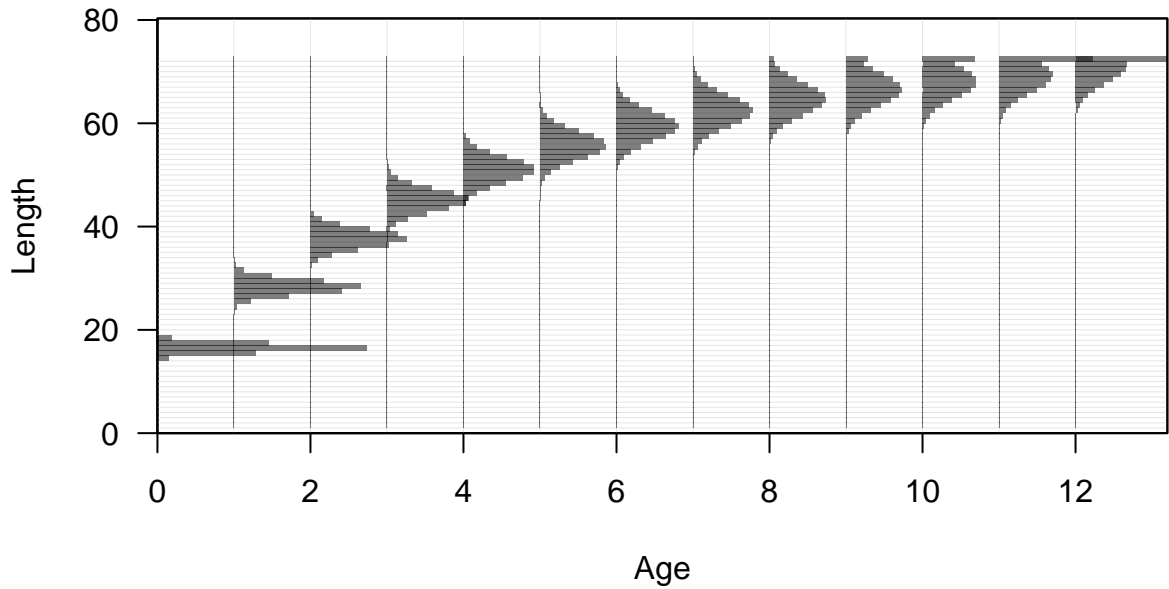


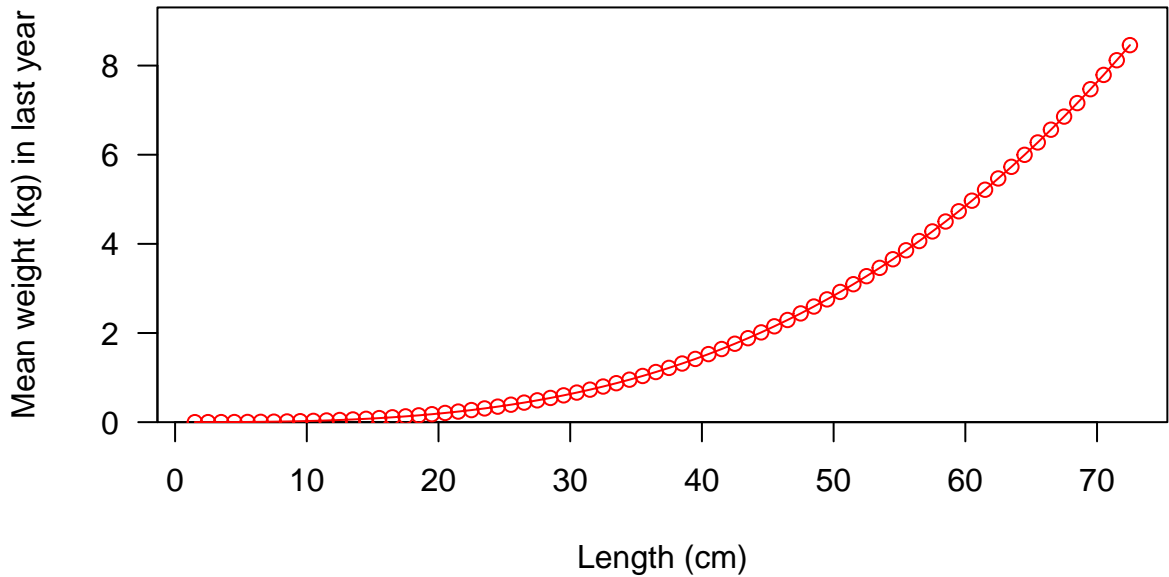


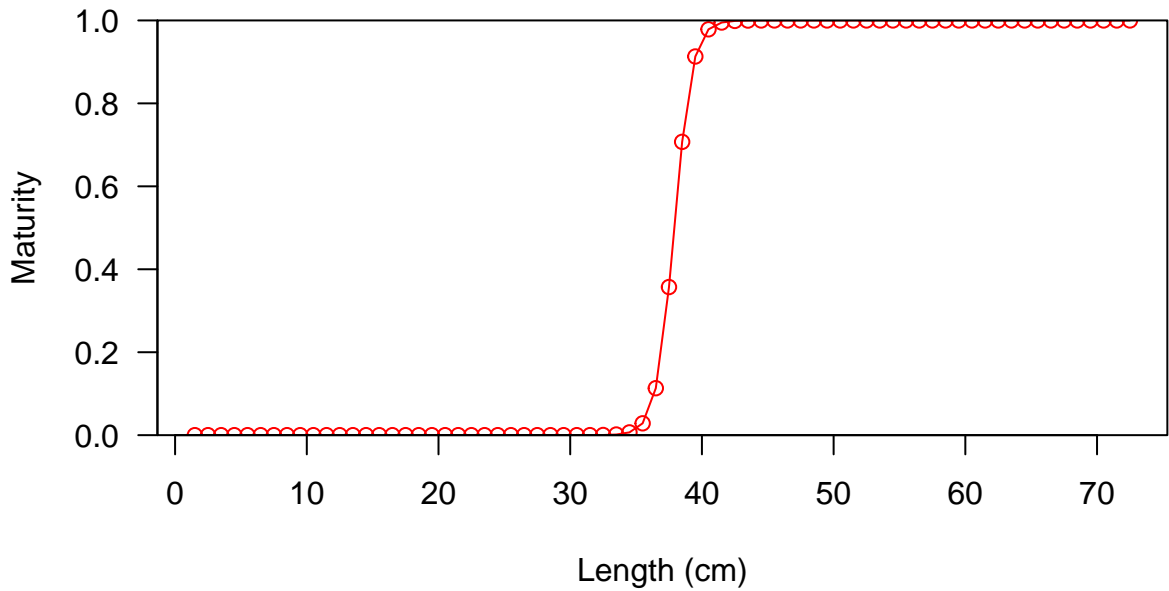


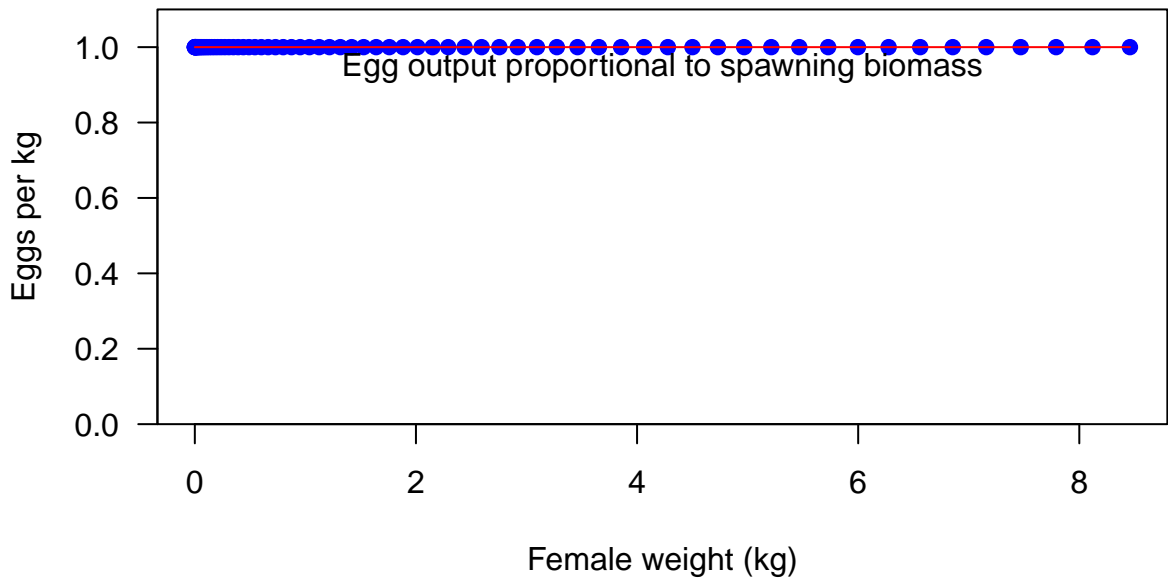




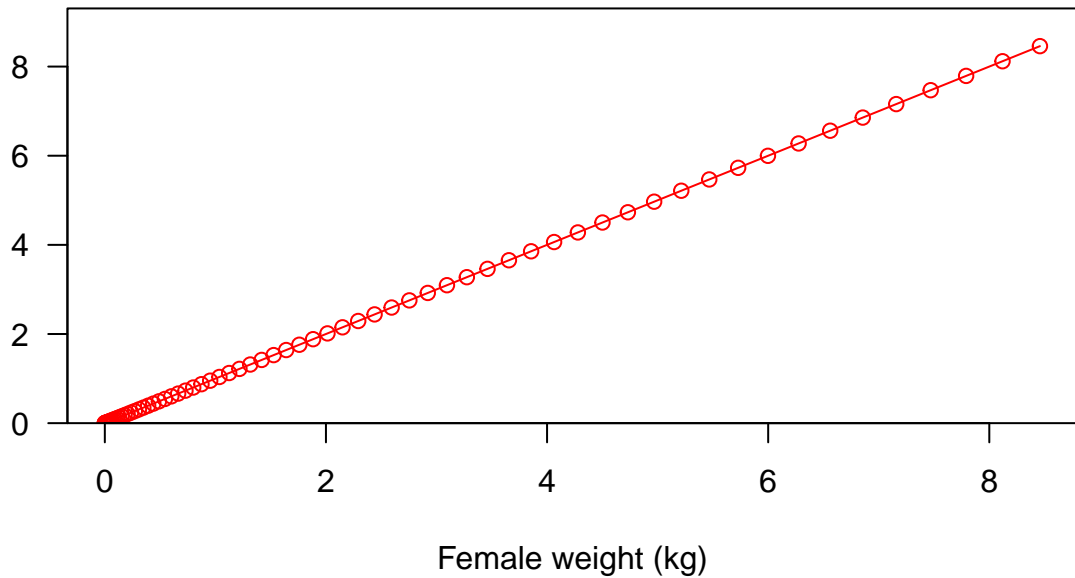




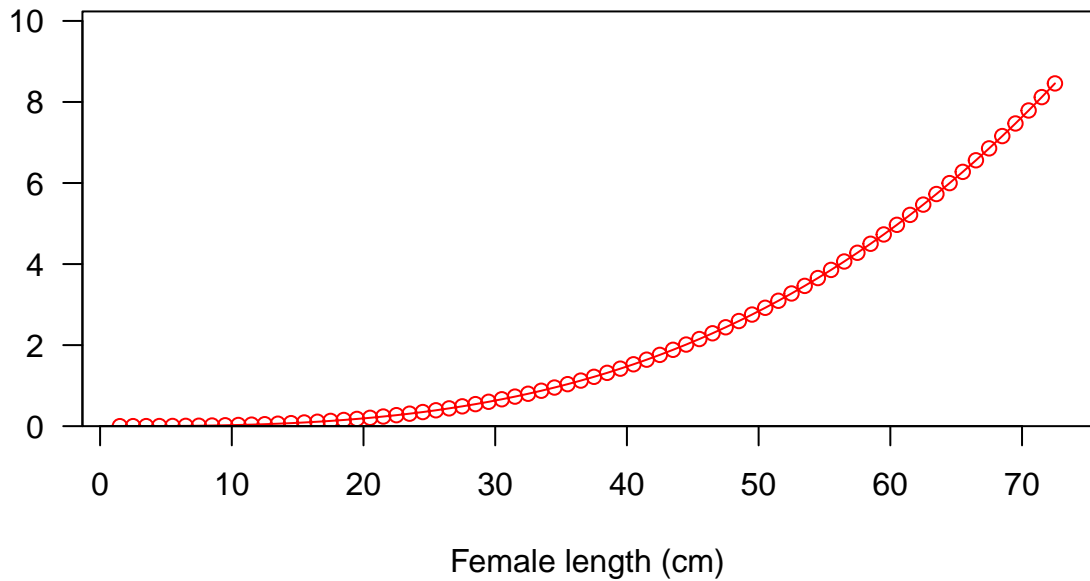




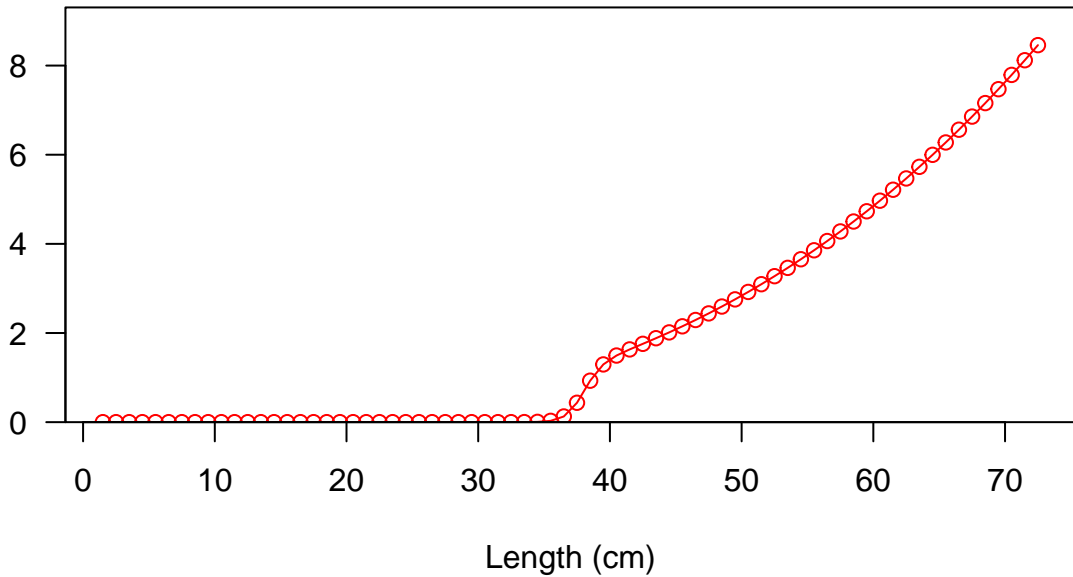
Fecundity



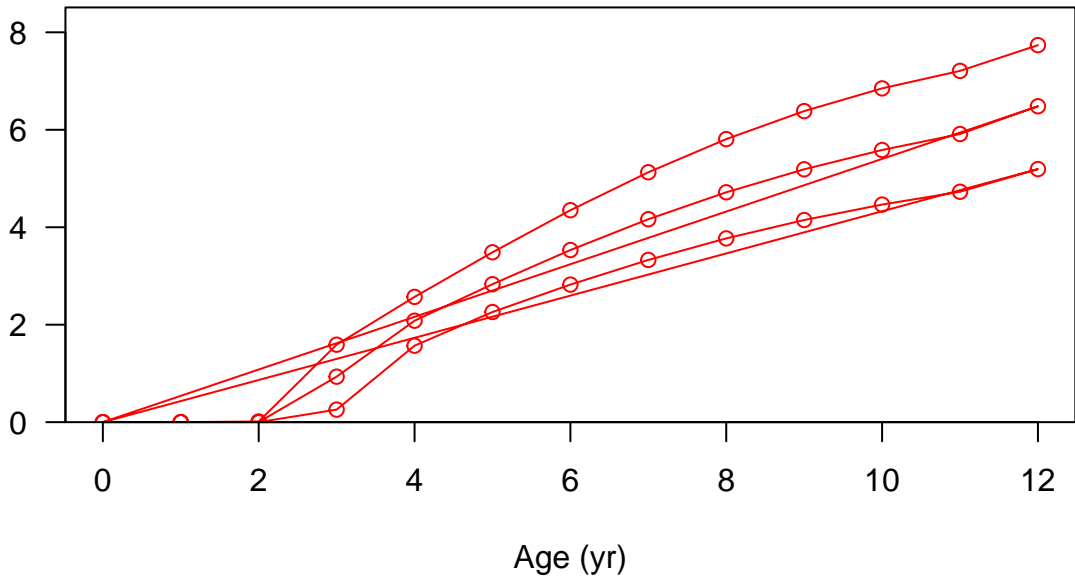
Fecundity



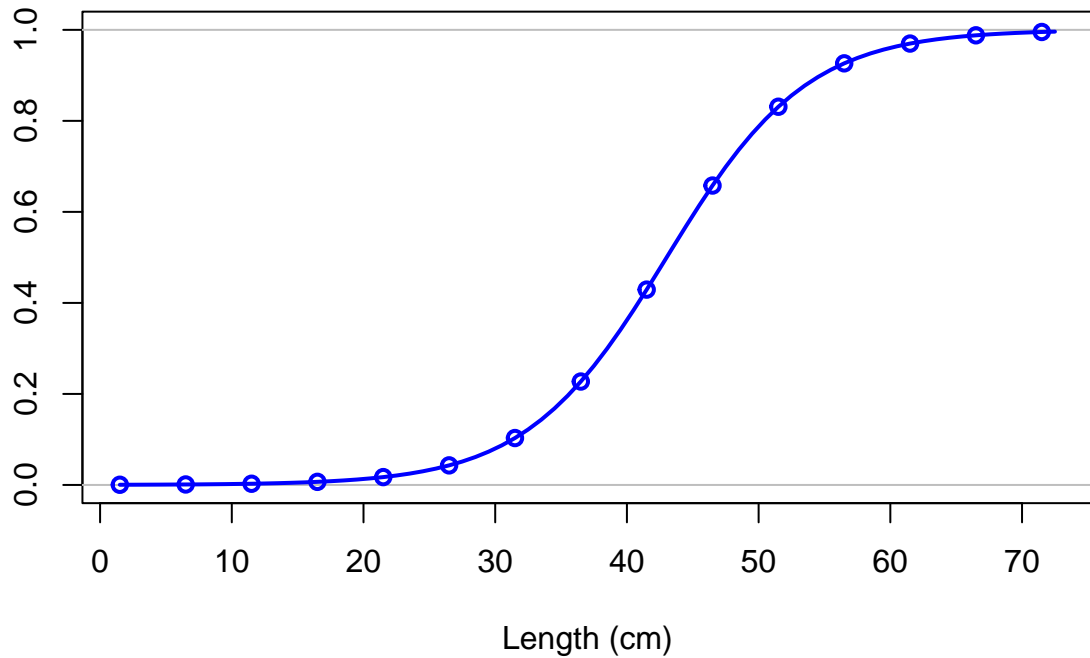
Spawning output



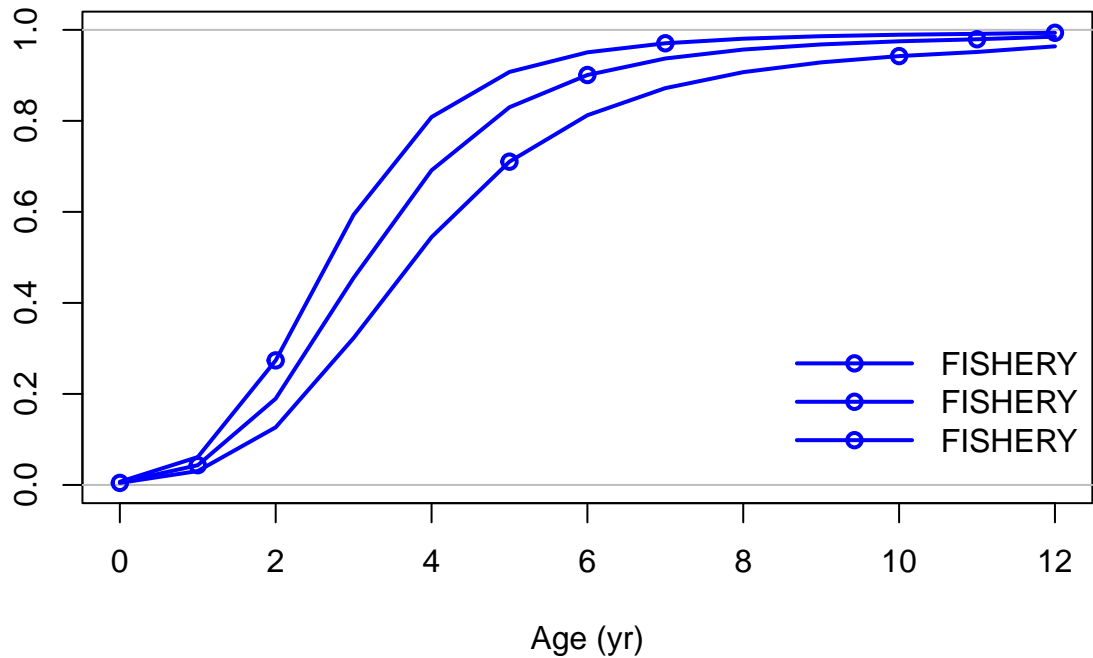
Spawning output



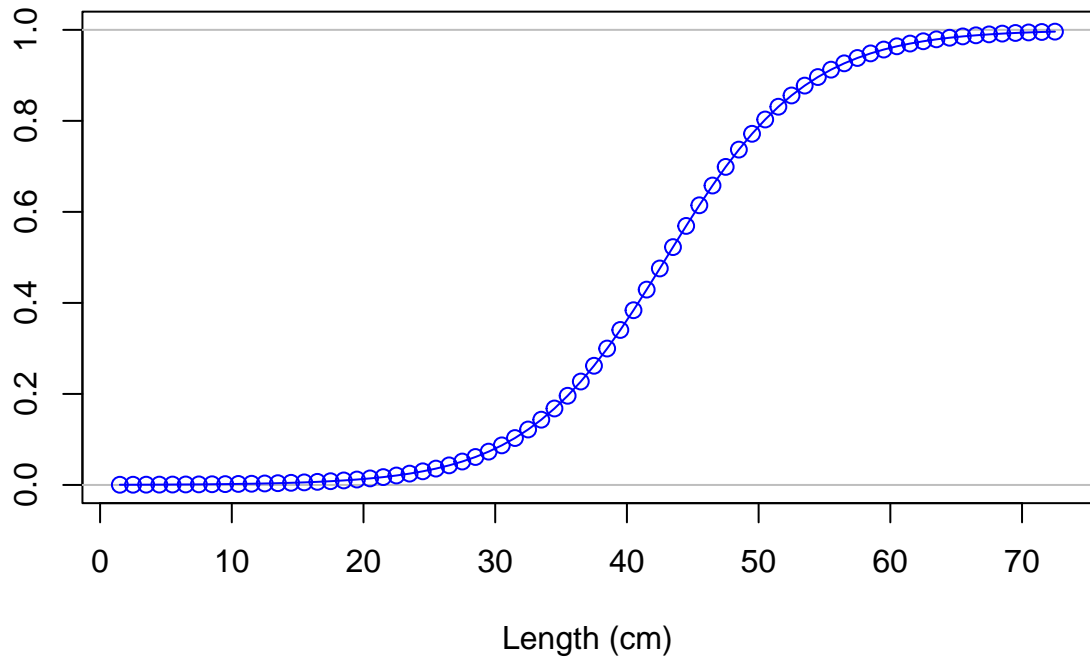
Selectivity

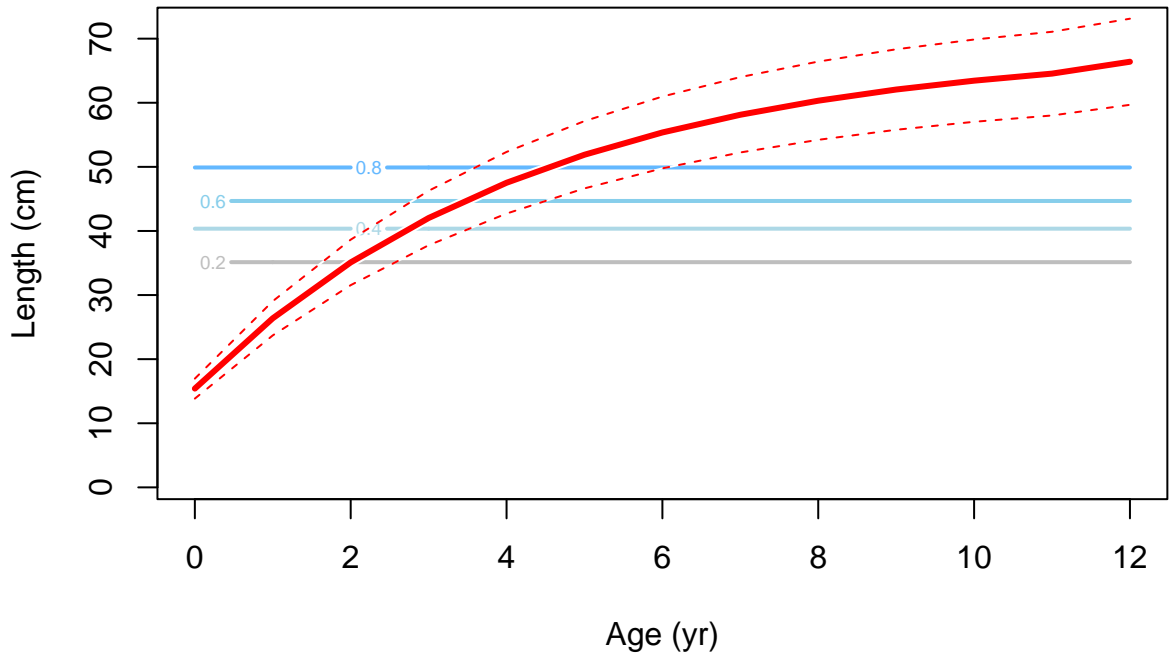


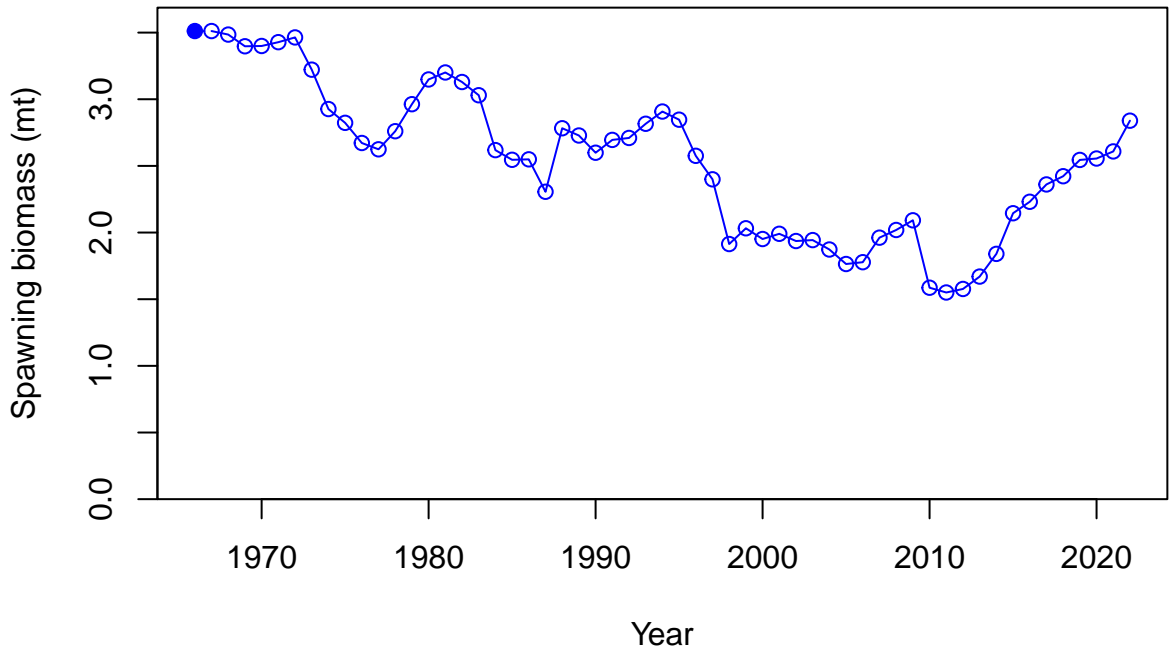
Selectivity



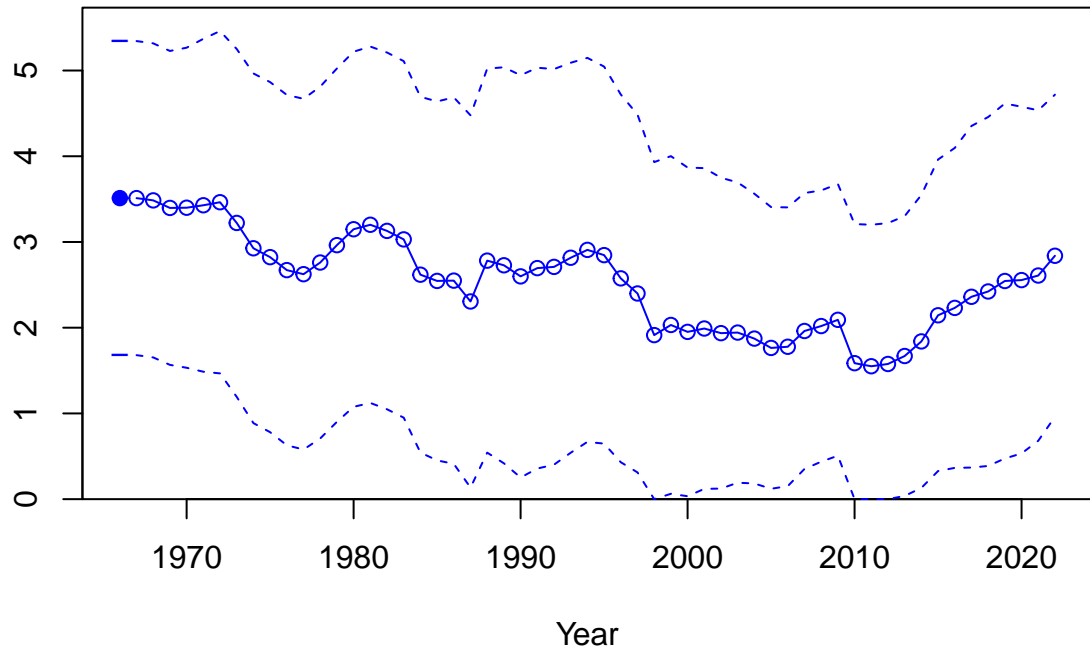
Selectivity



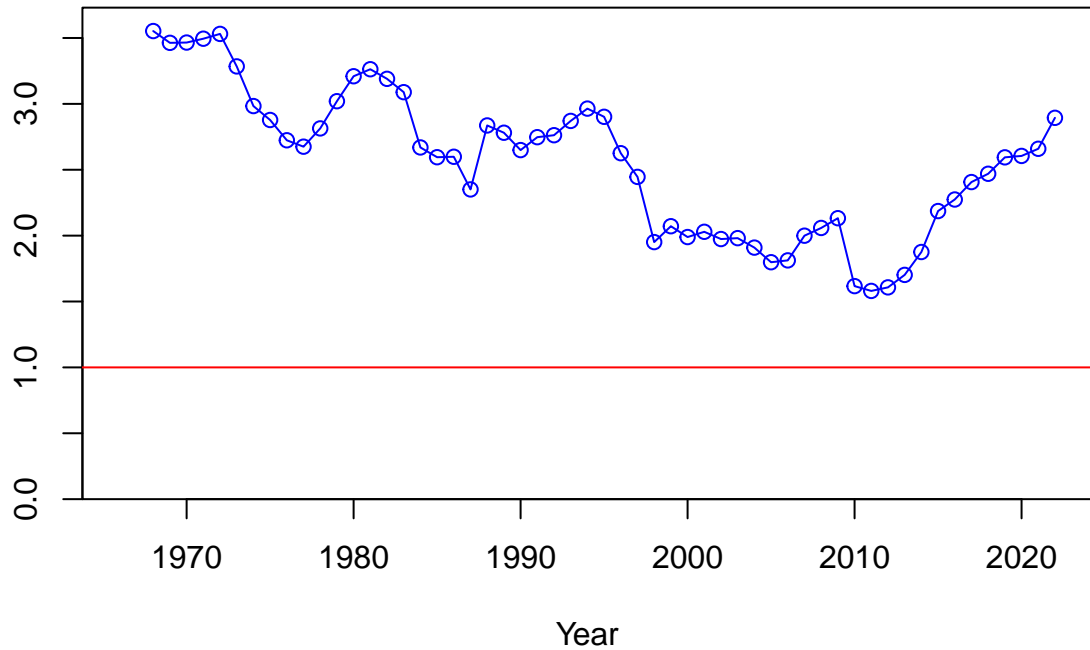




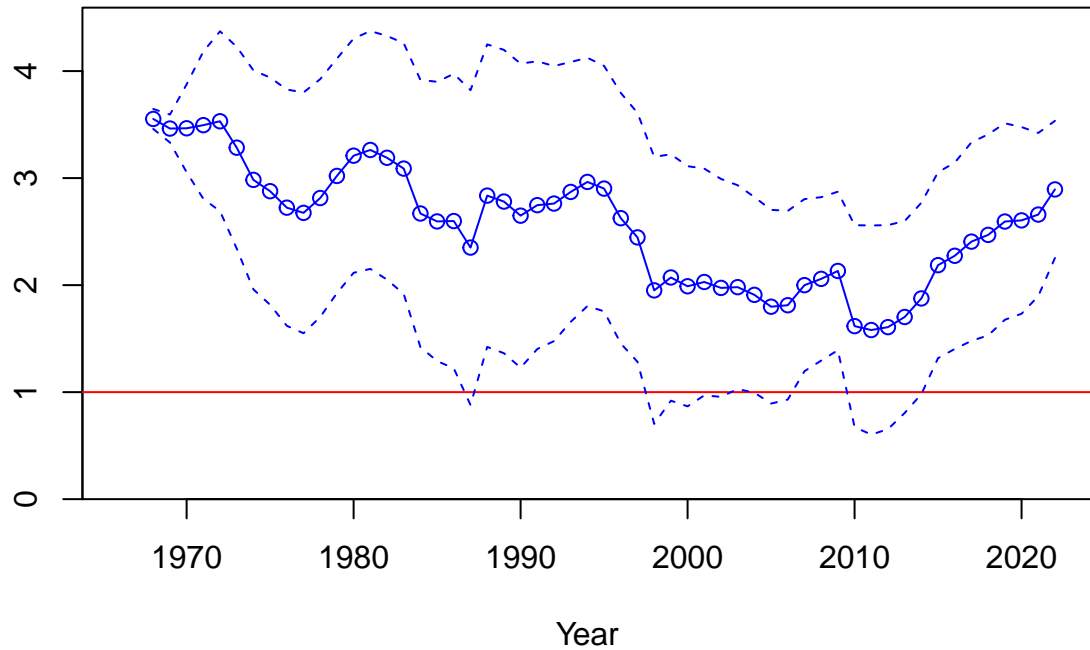
Spawning biomass (mt)

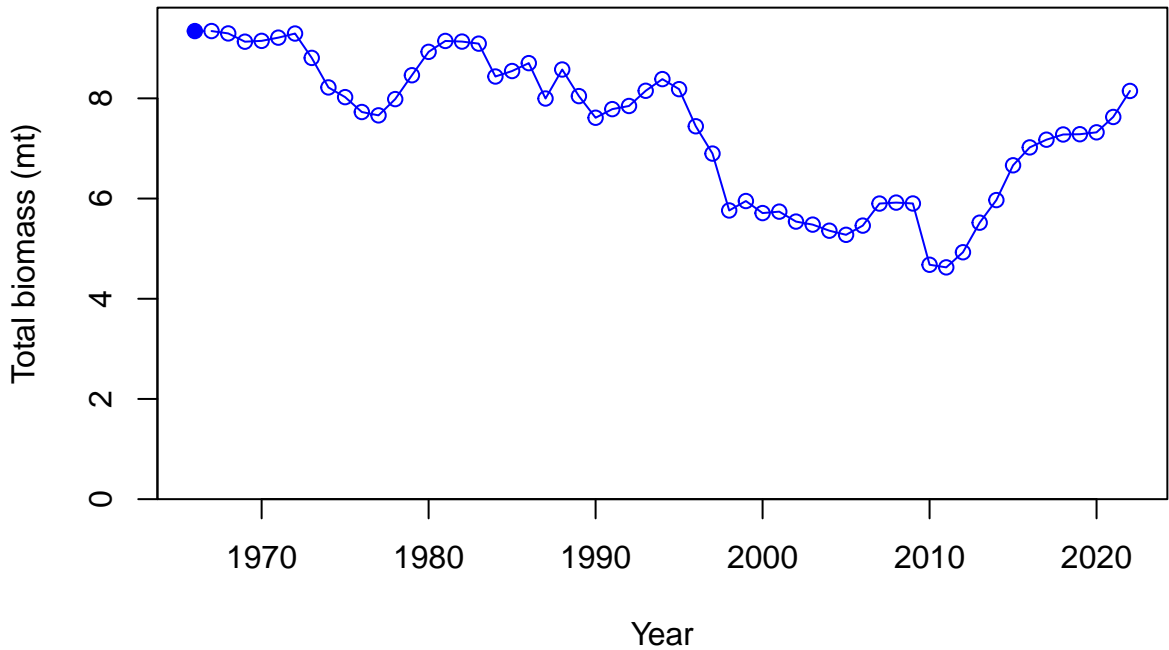


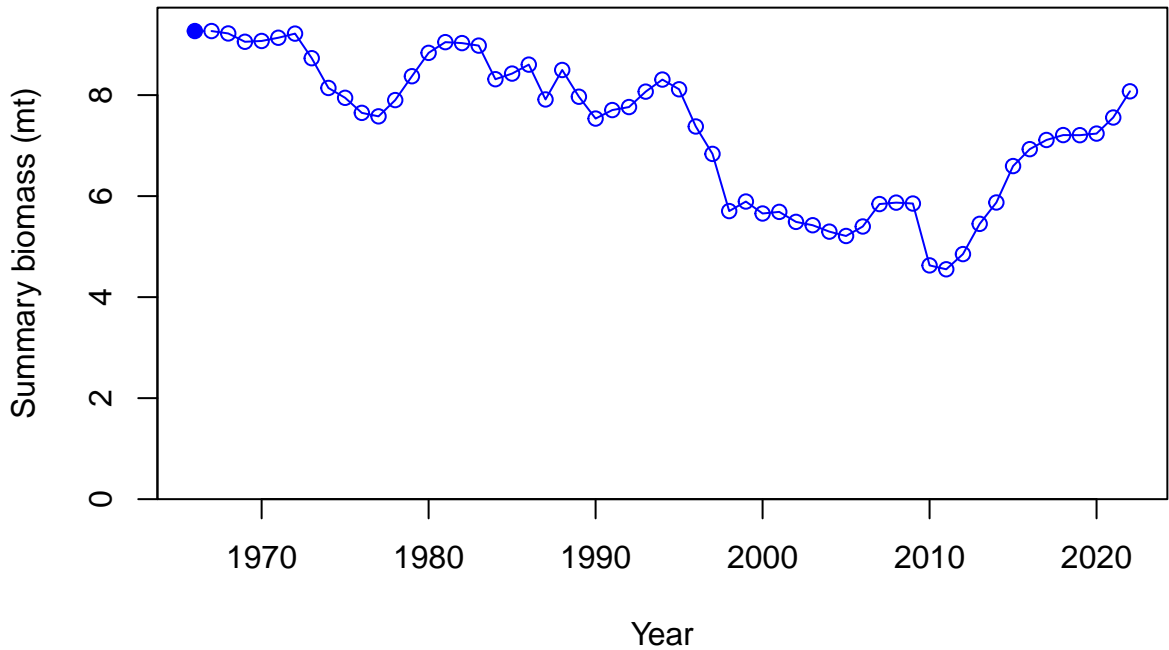
Relative spawning biomass: B/B_{MSY}



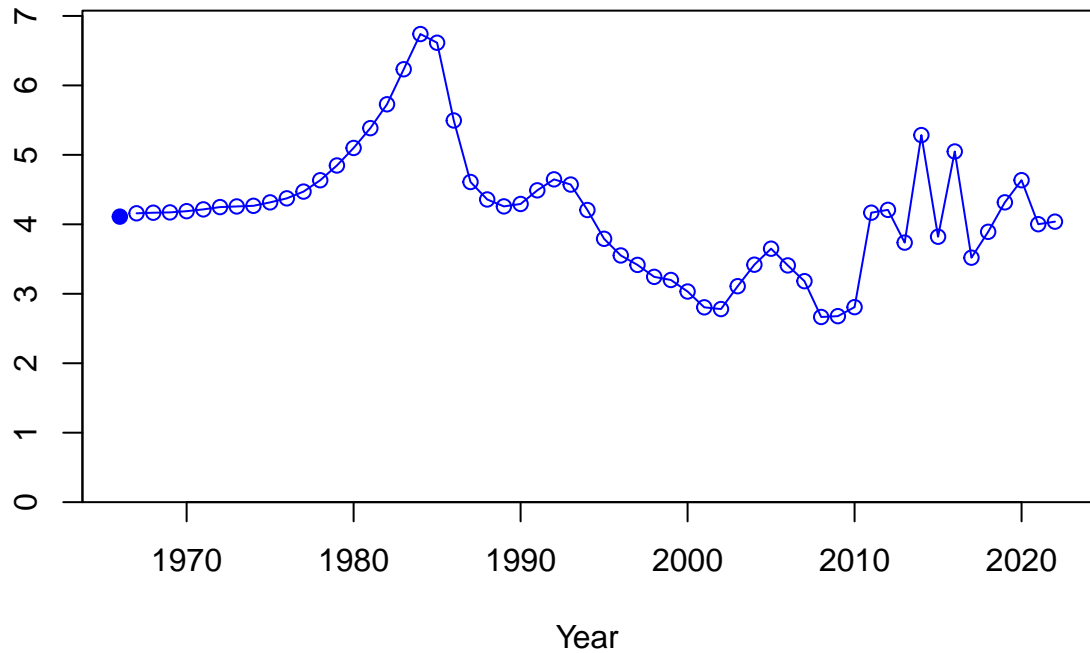
Relative spawning biomass: B/B_{MSY}



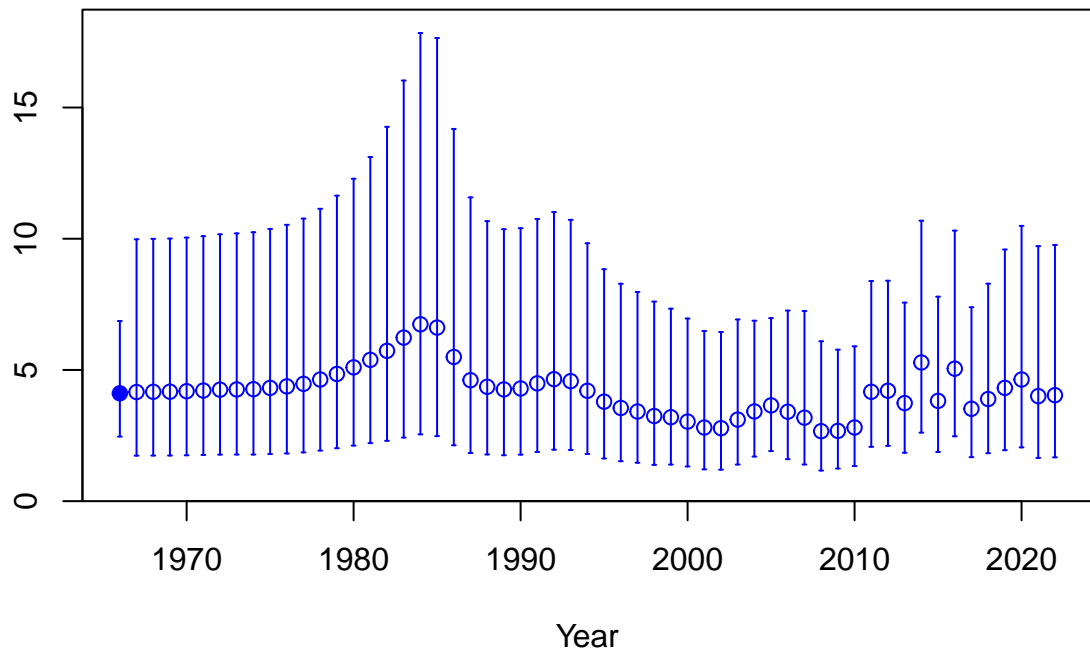




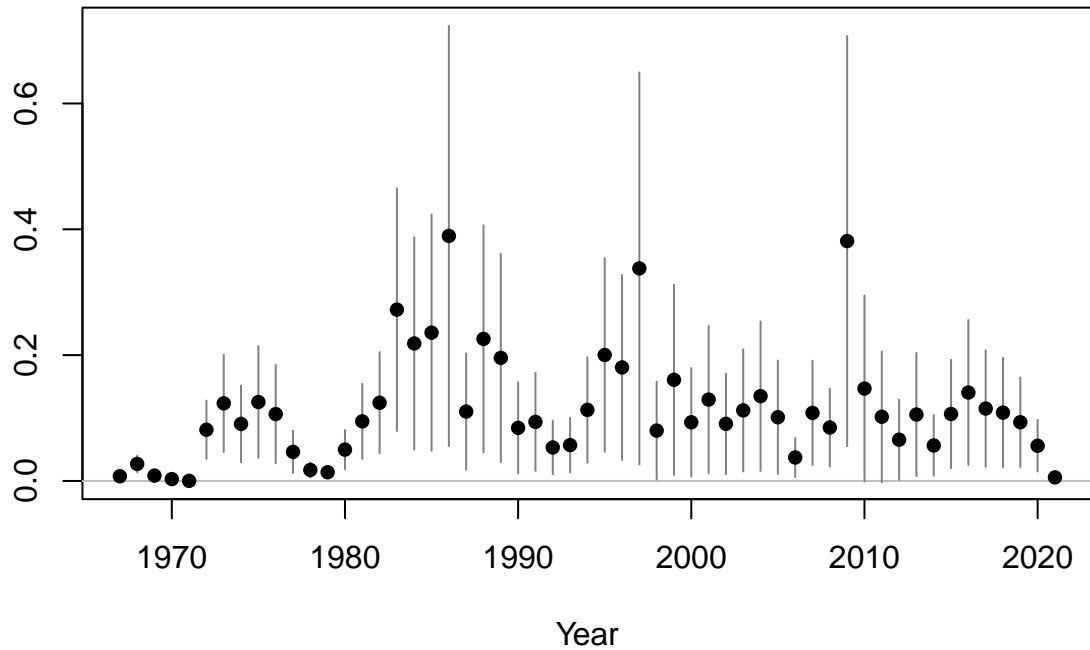
Age-0 recruits (1,000s)

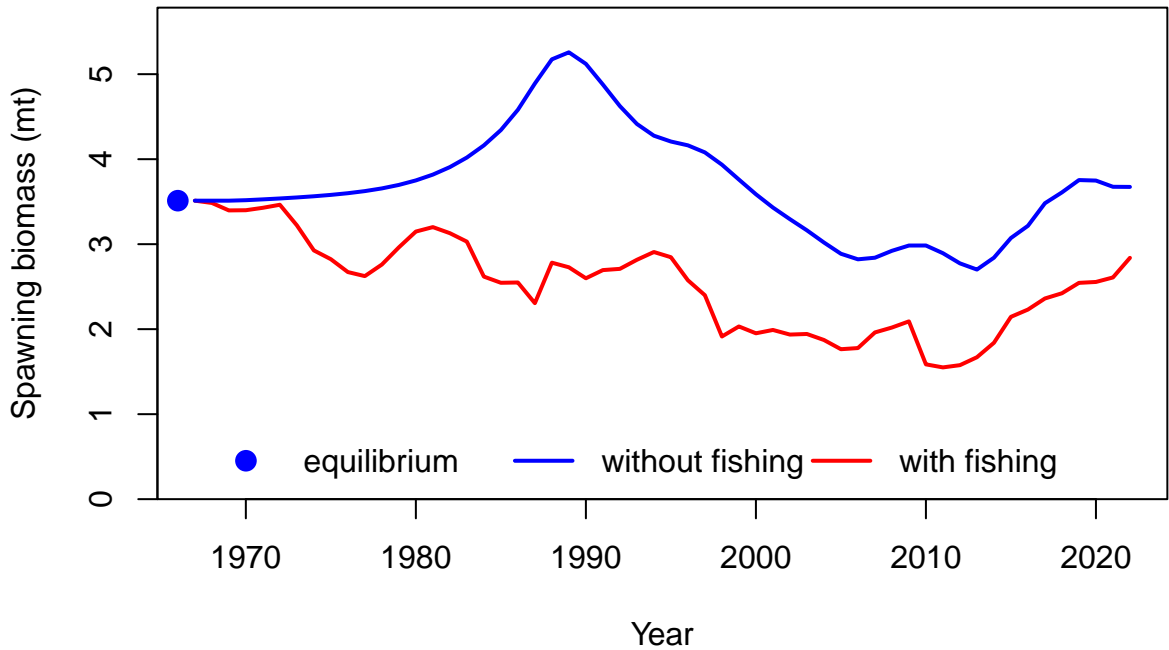


Age-0 recruits (1,000s)

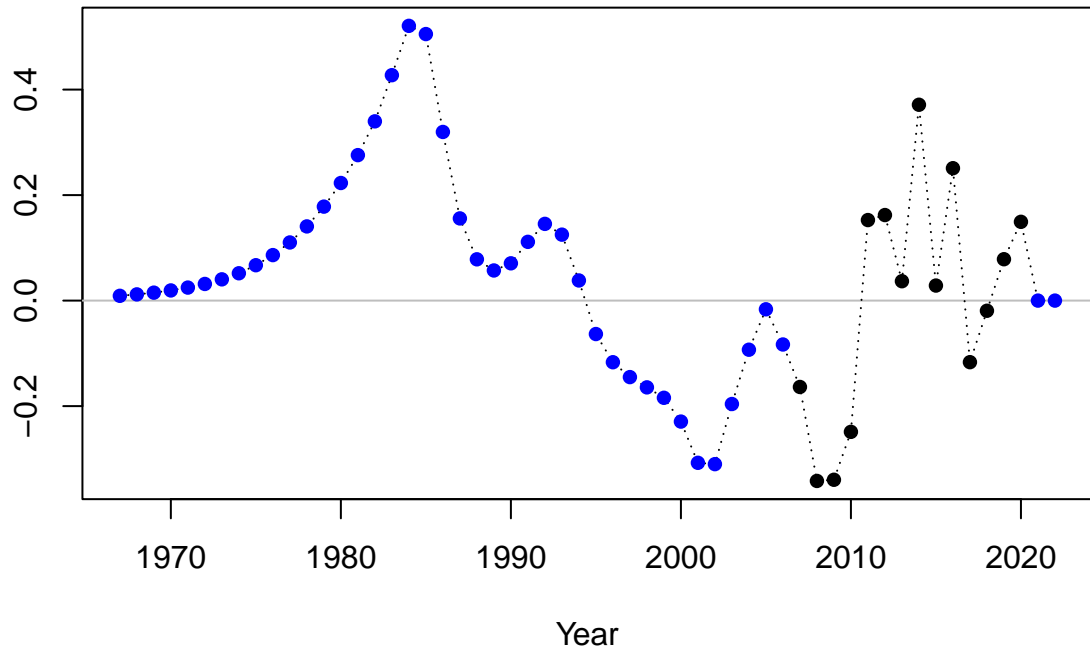


Summary Fishing Mortality

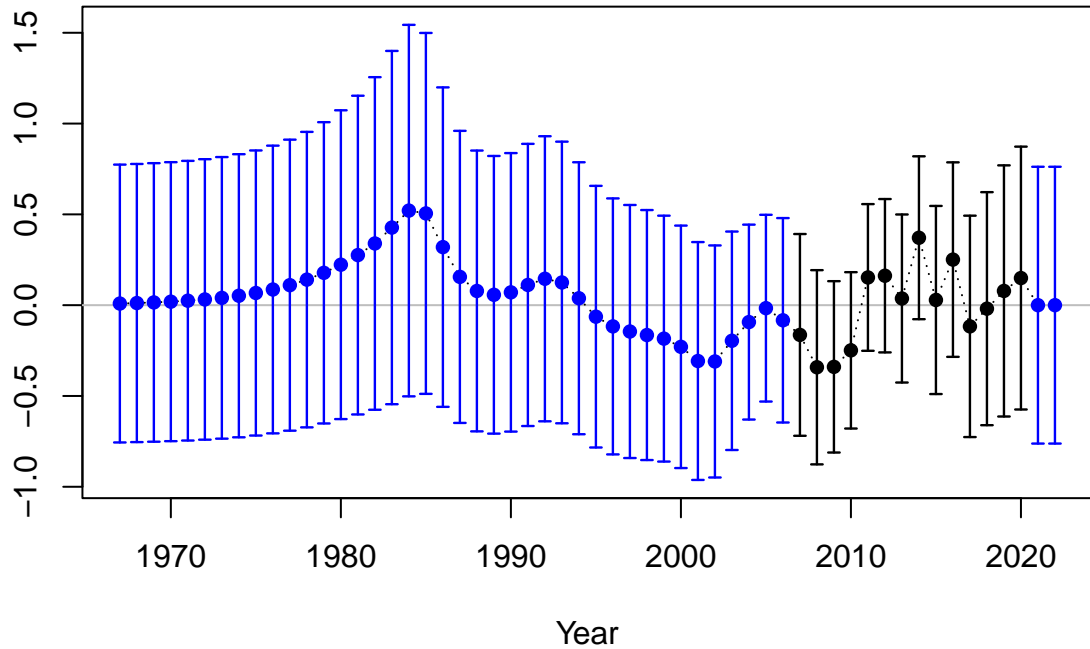




Log recruitment deviation

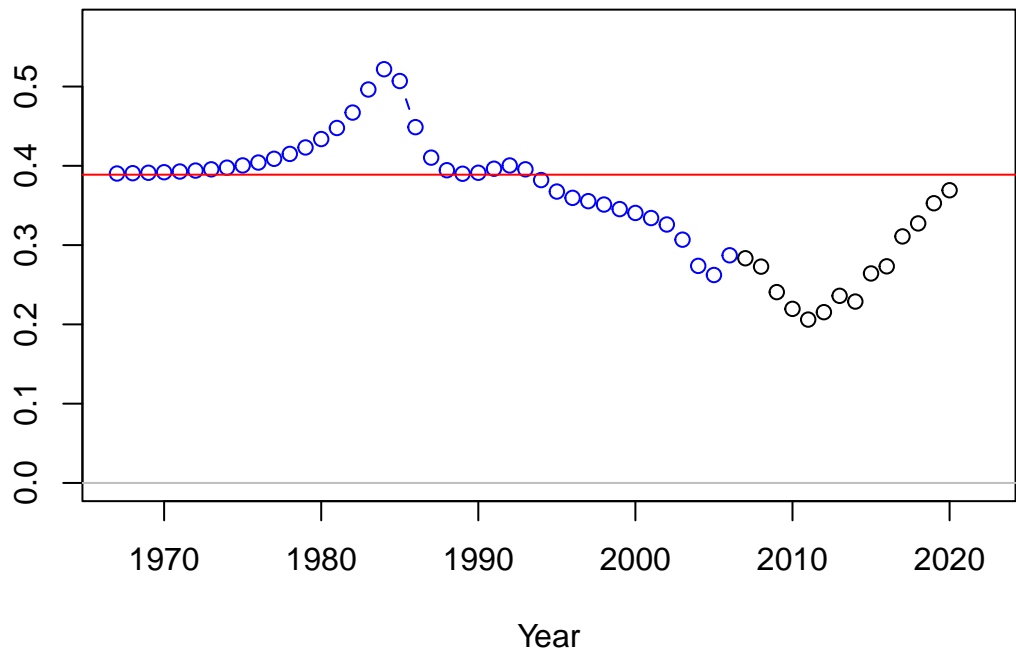


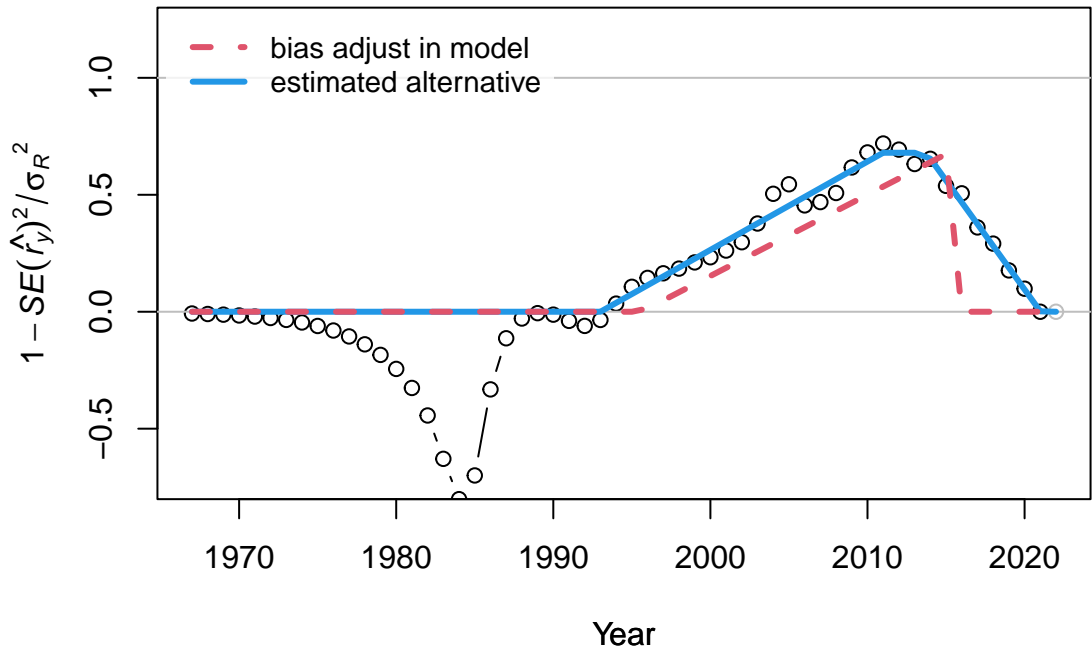
Log recruitment deviation

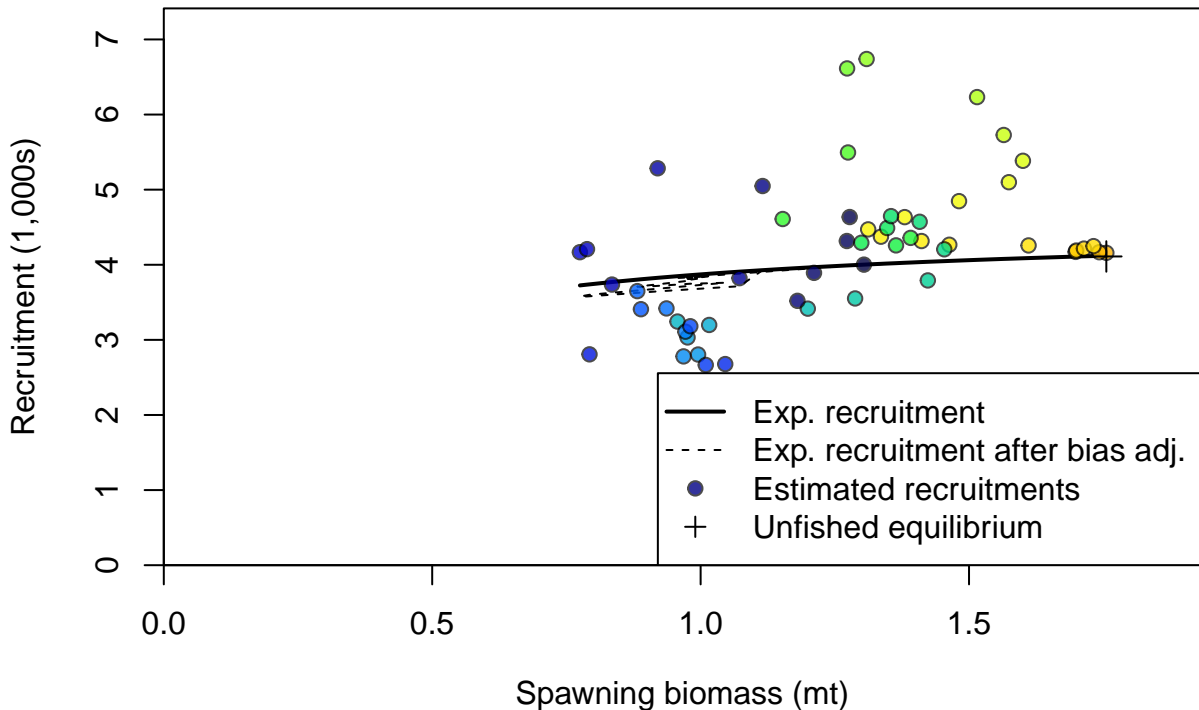


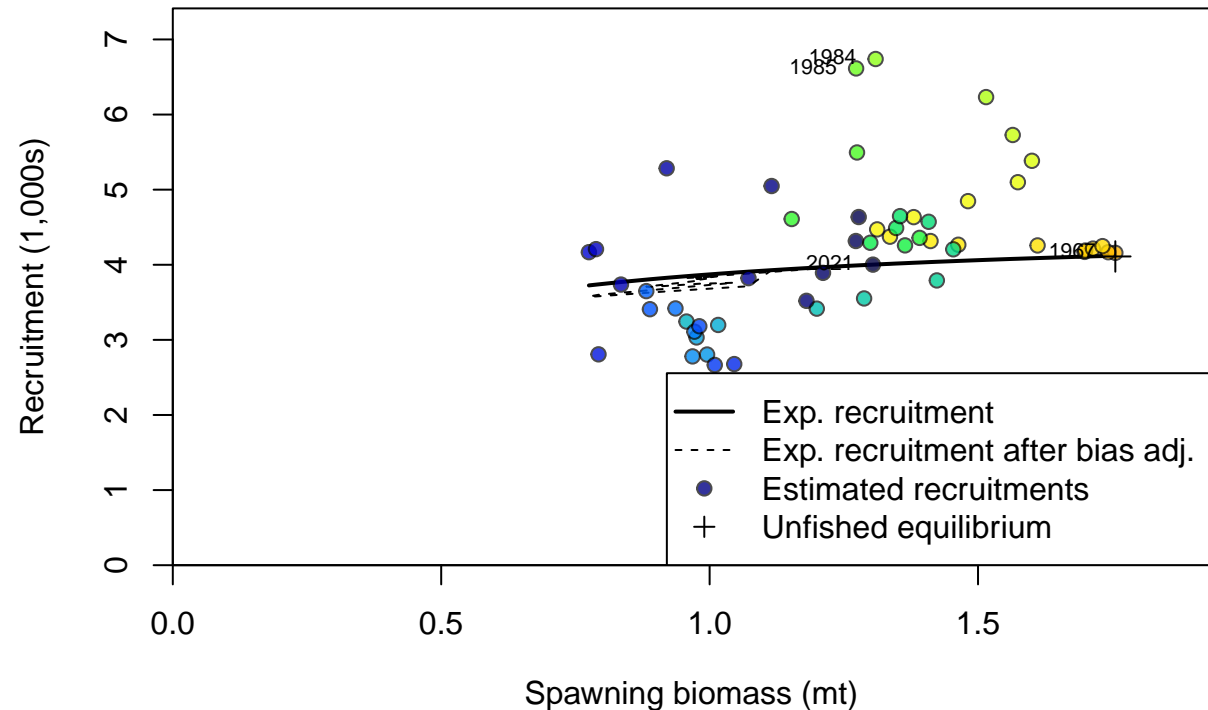
Recruitment deviation variance

Asymptotic standard error estimate

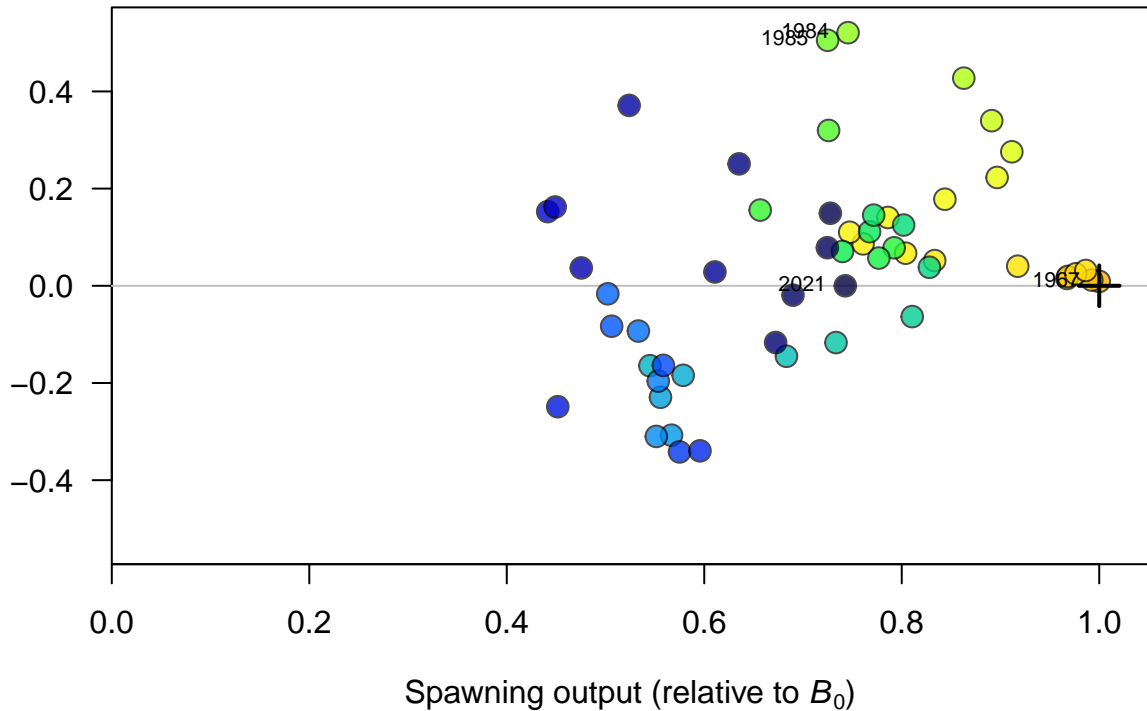


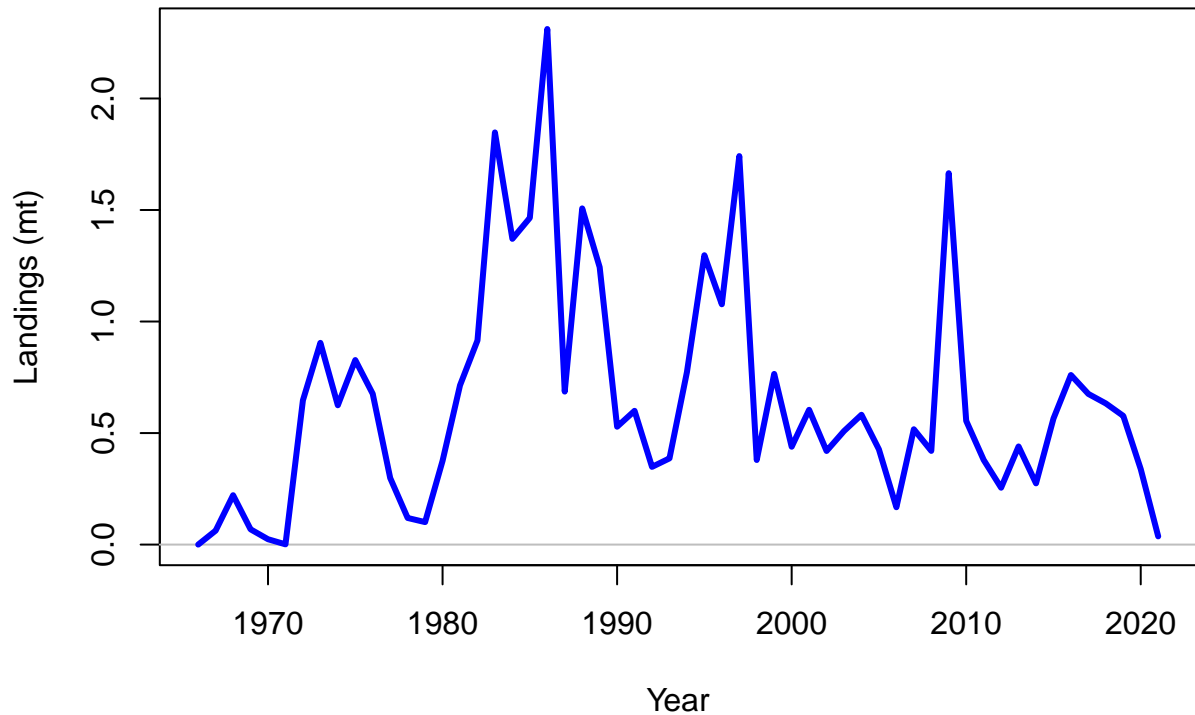


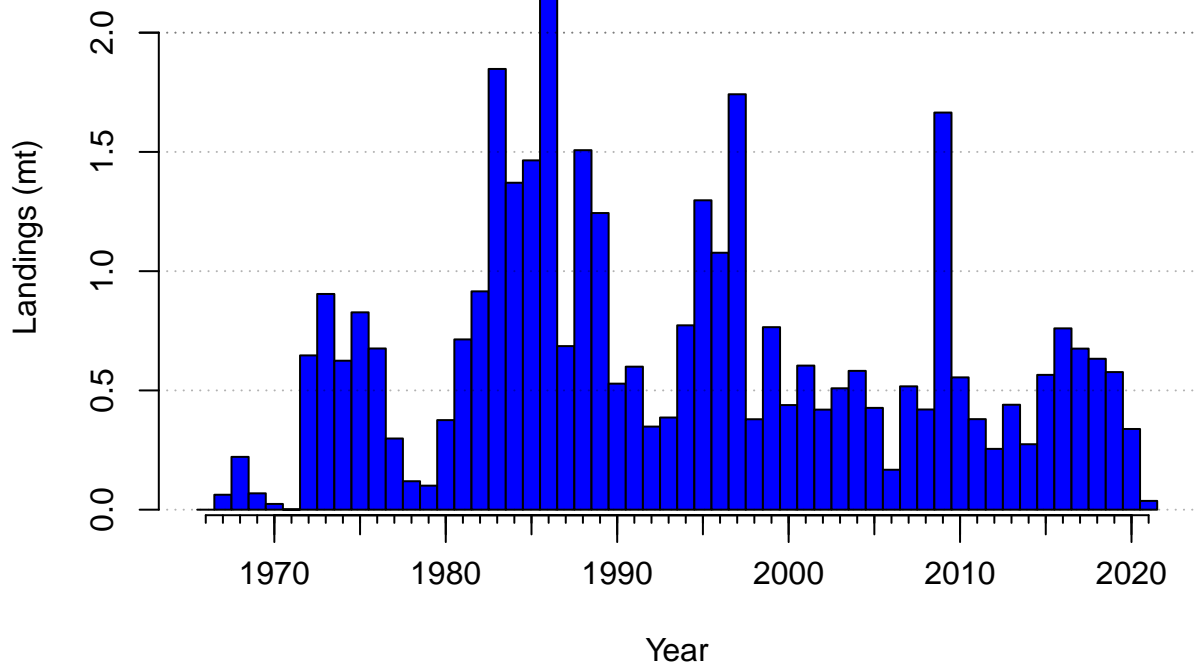


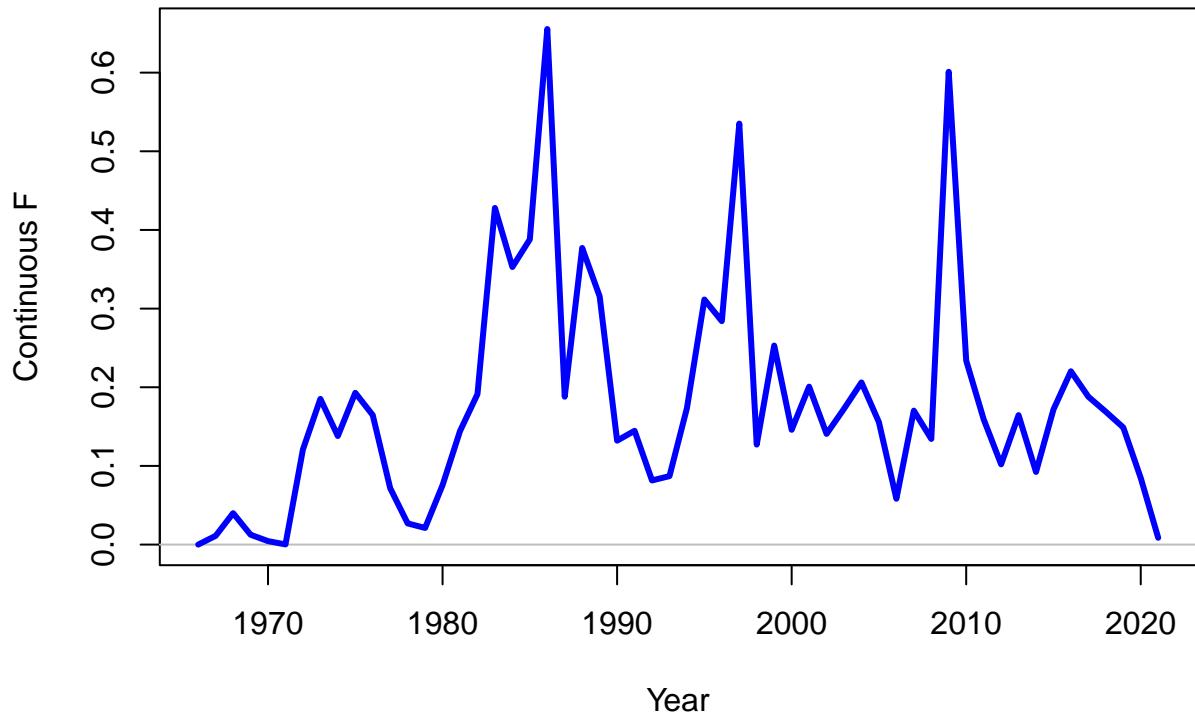


Log recruitment deviation

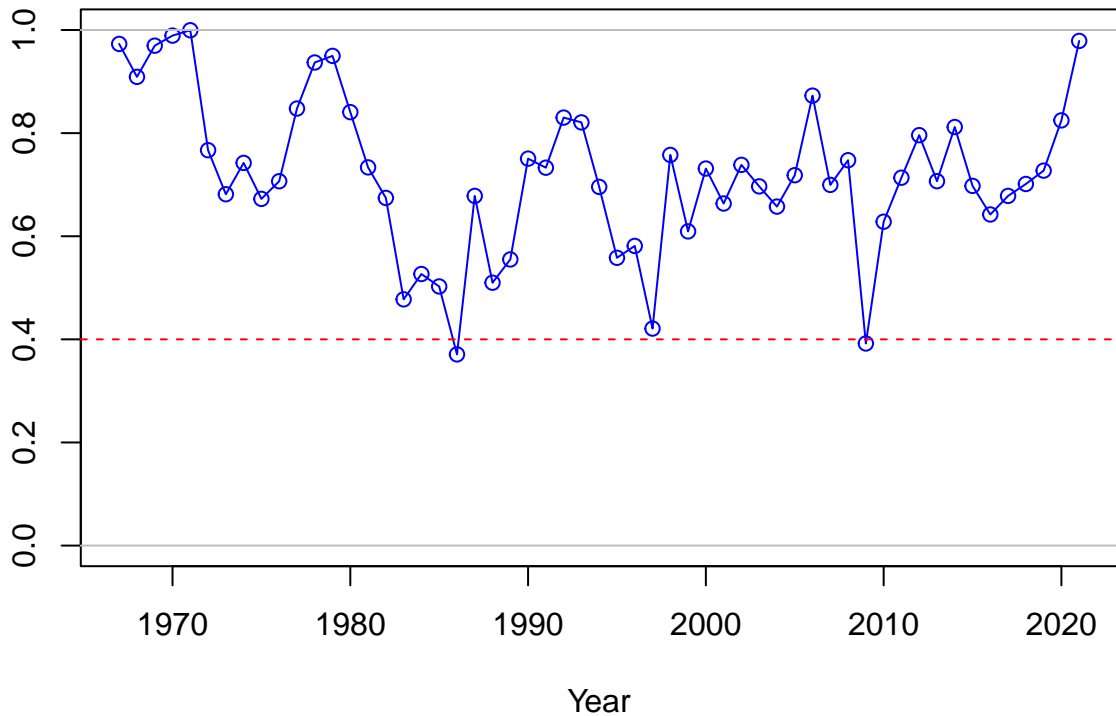


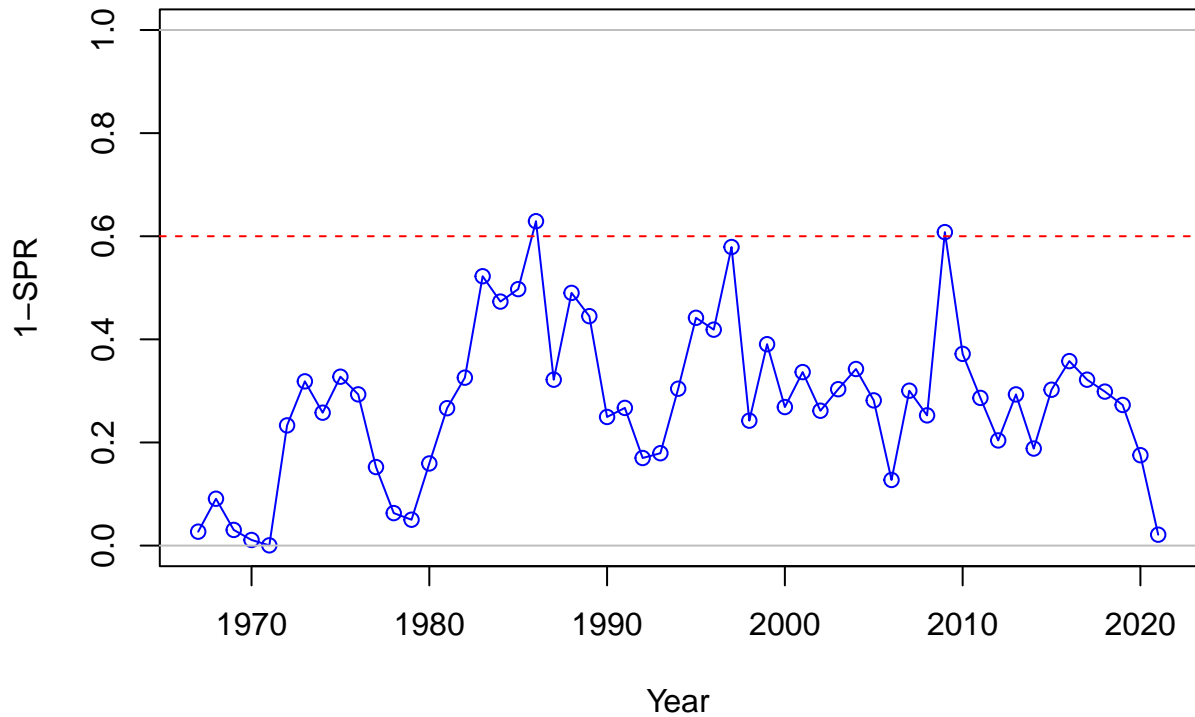




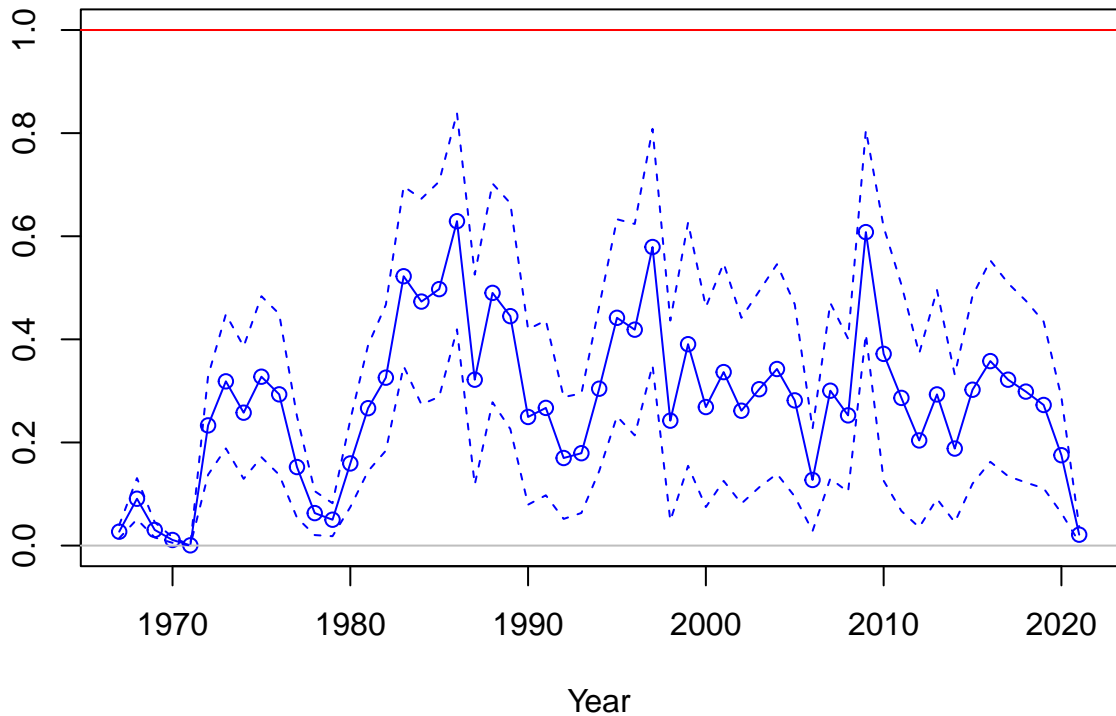


SPR

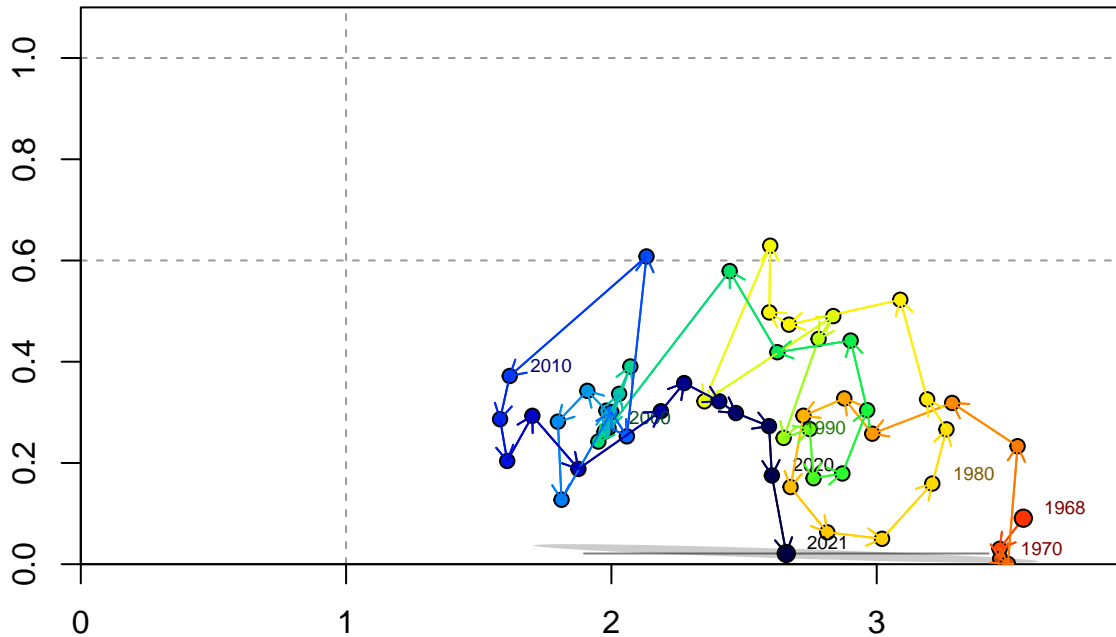




Fishing intensity: 1-SPR

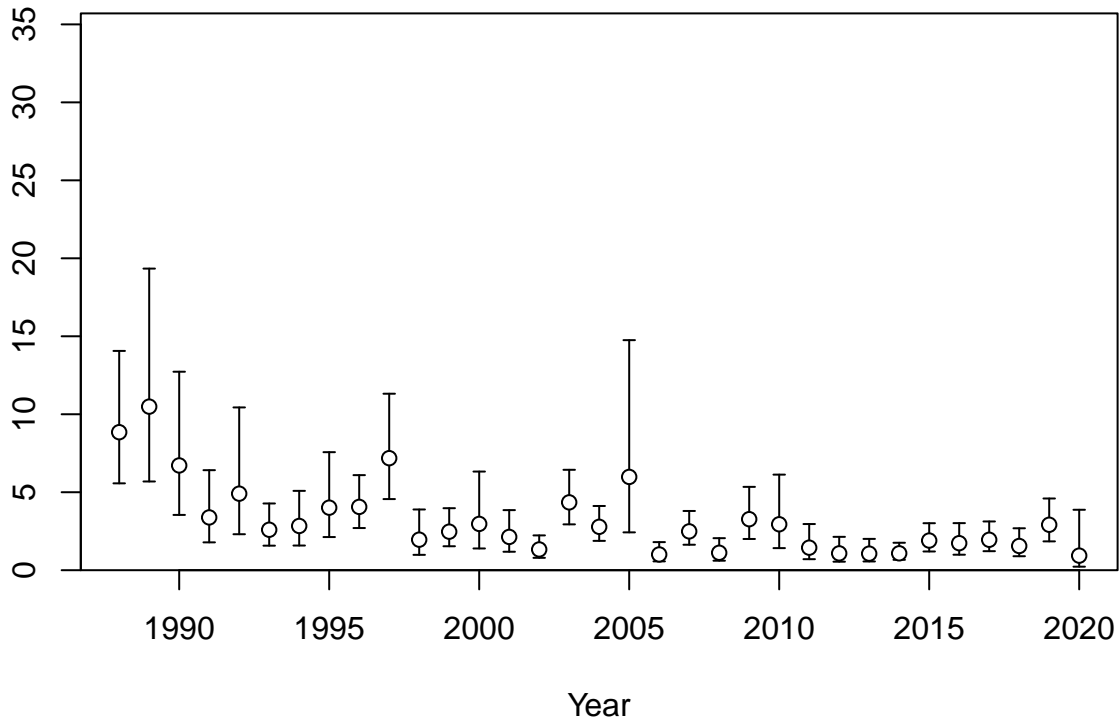


Fishing intensity: 1-SPR

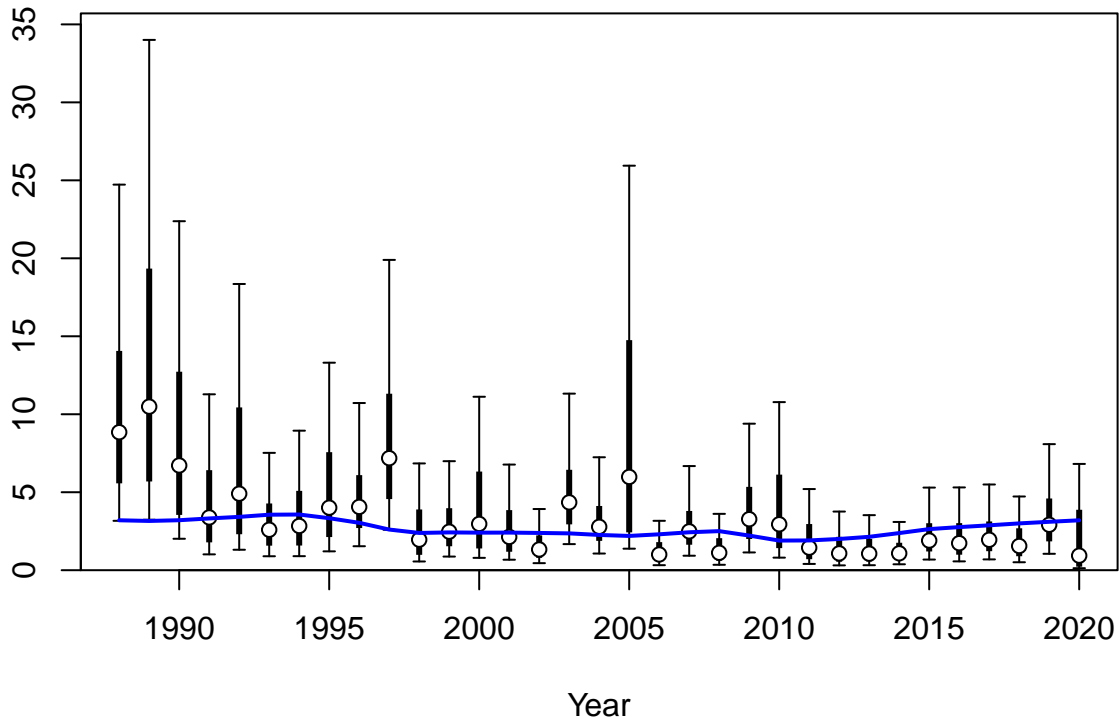


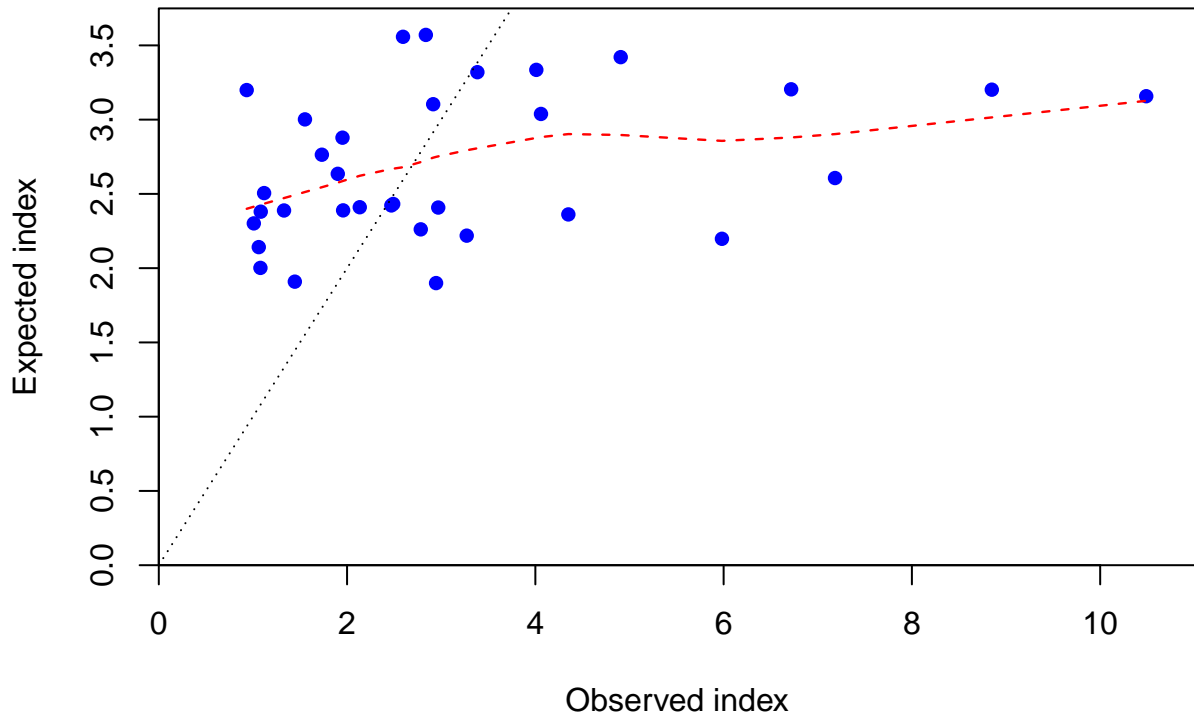
Relative spawning output: B/B_{MSY}

Index



Index





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3
2
1
0
-1
-2

1990

1995

2000

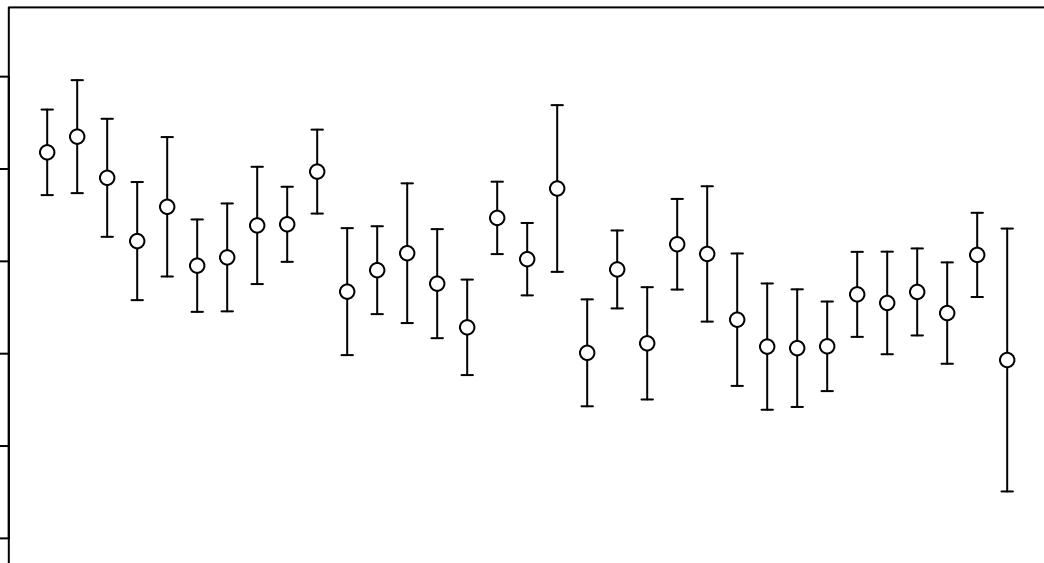
2005

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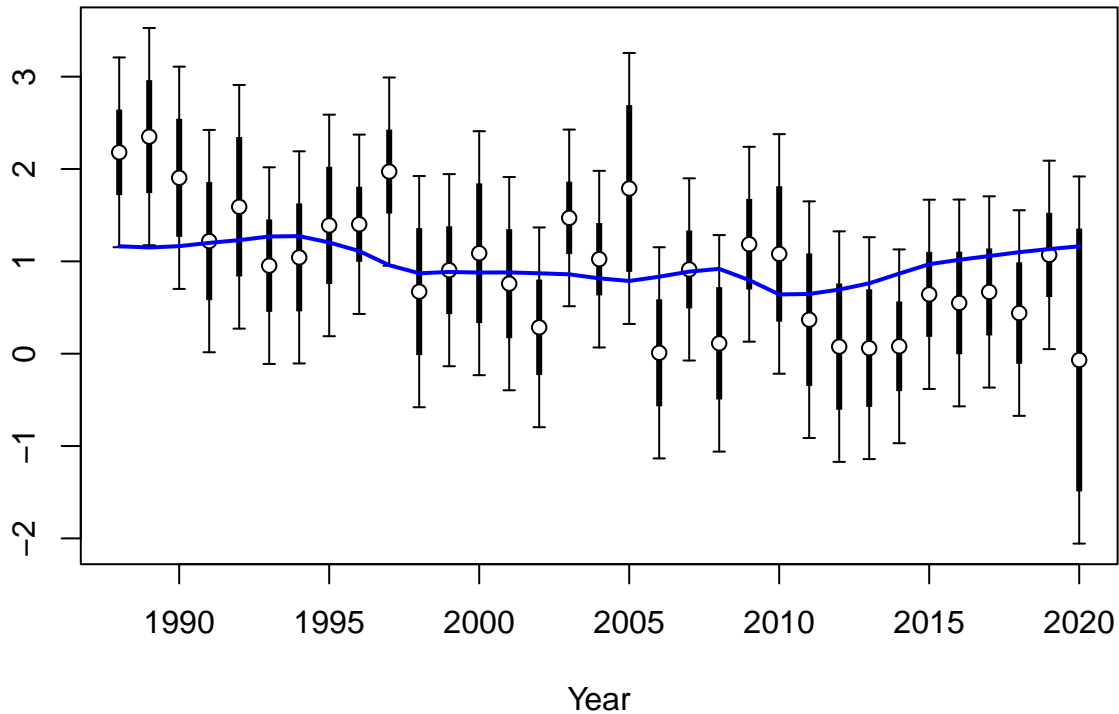
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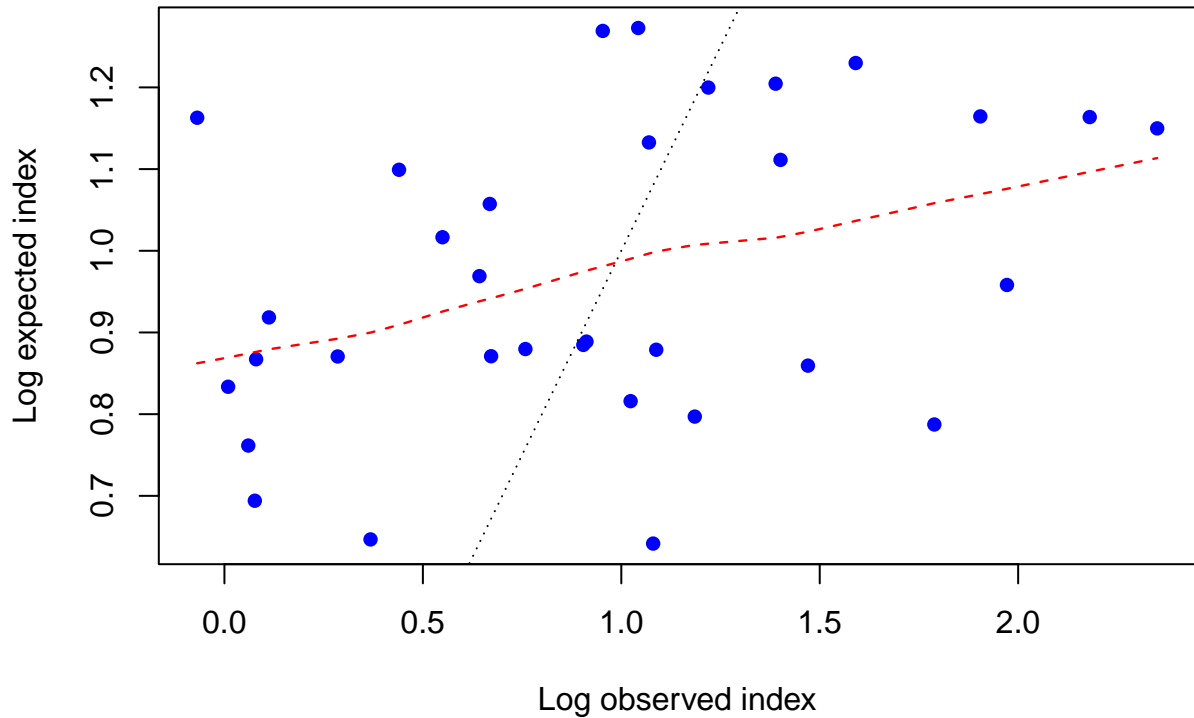
2020

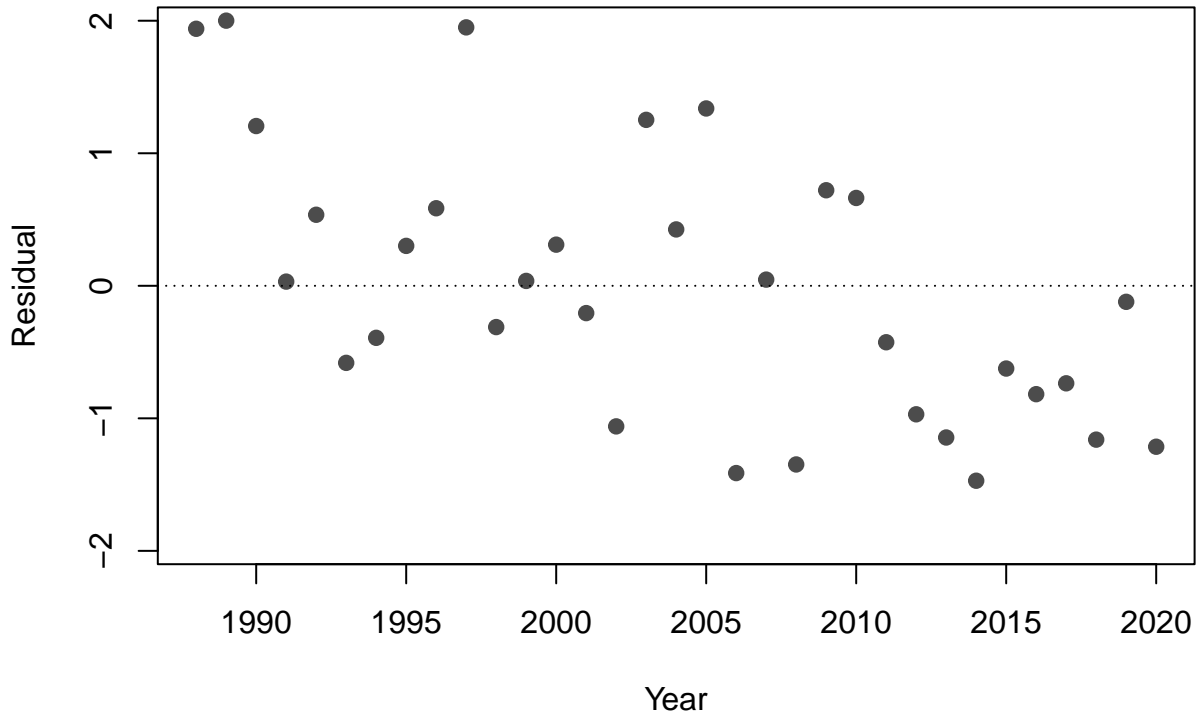
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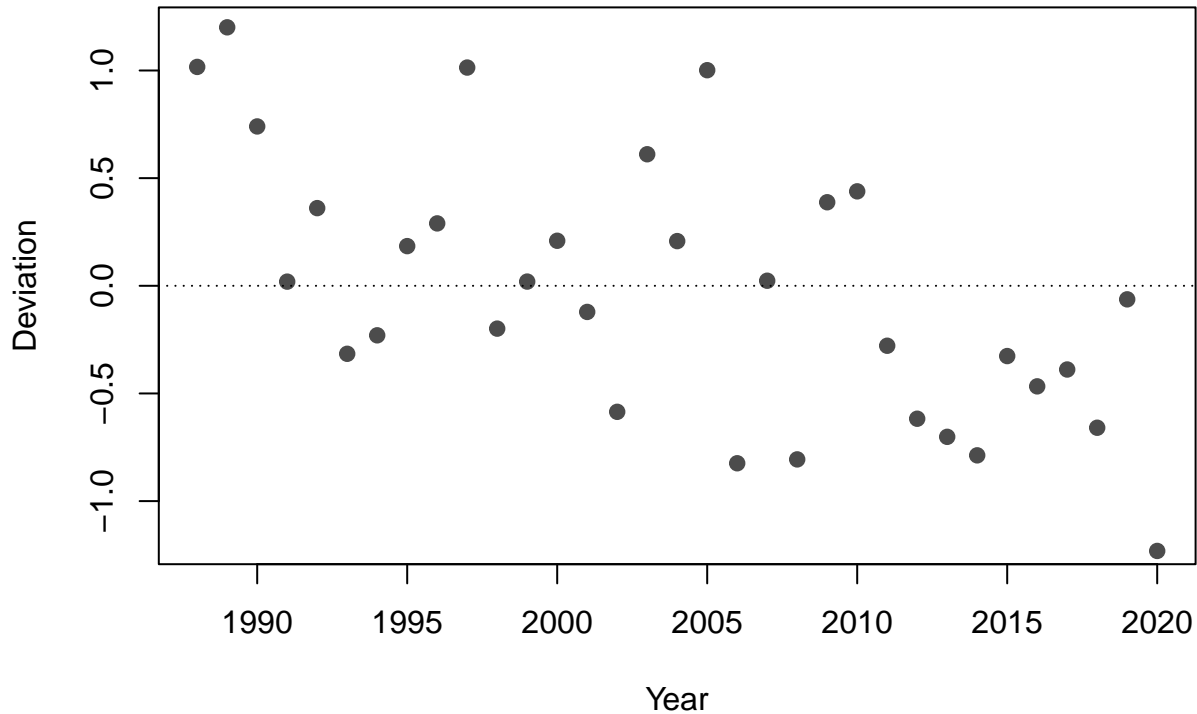


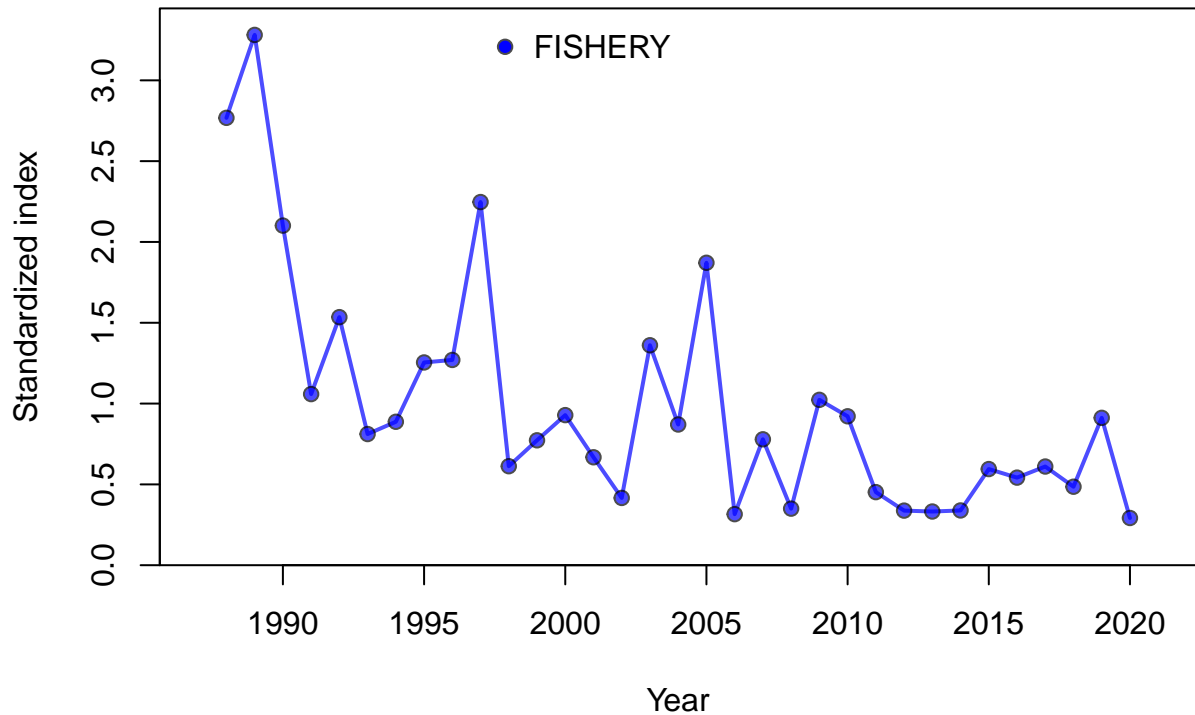
Log index



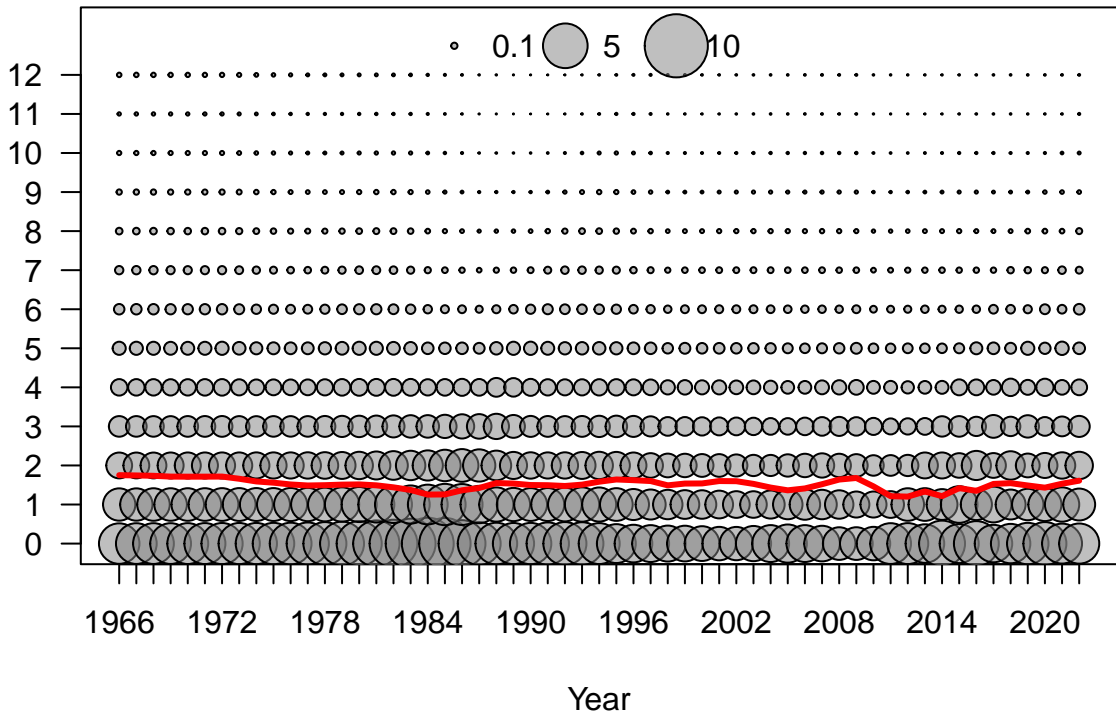




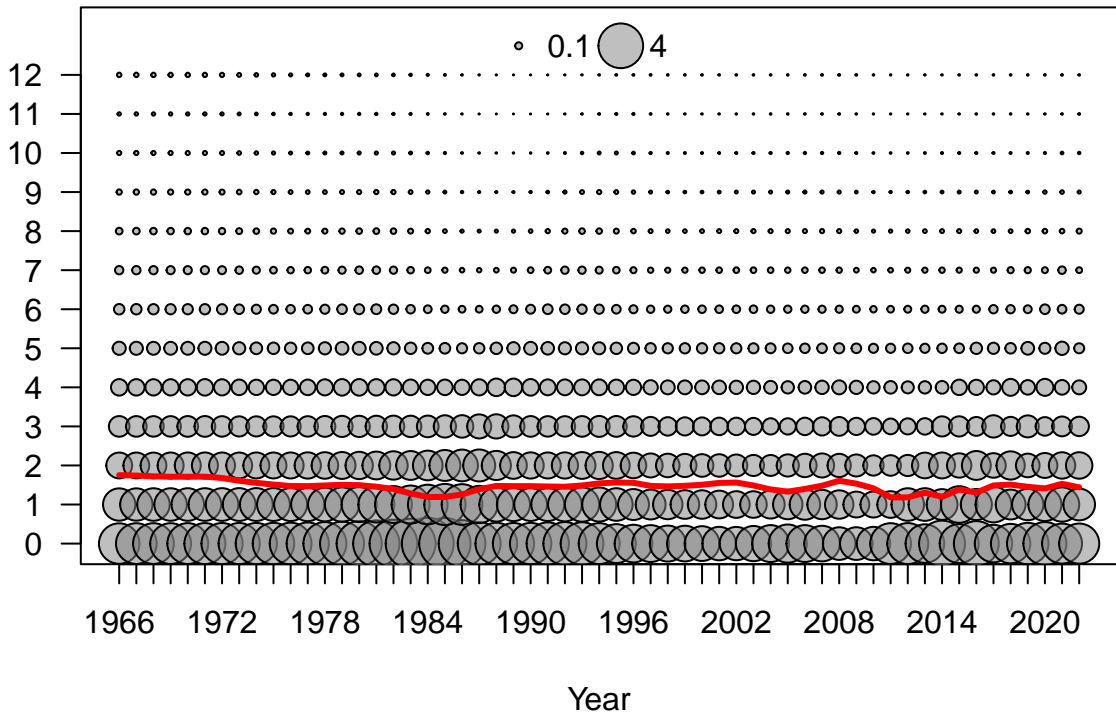




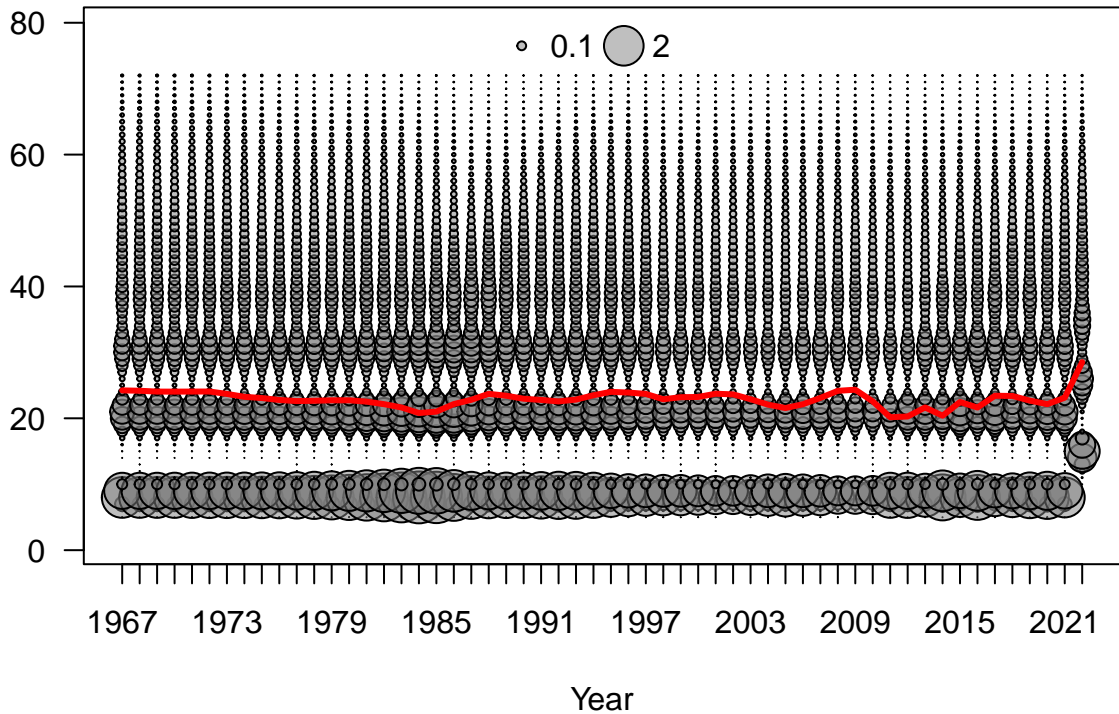
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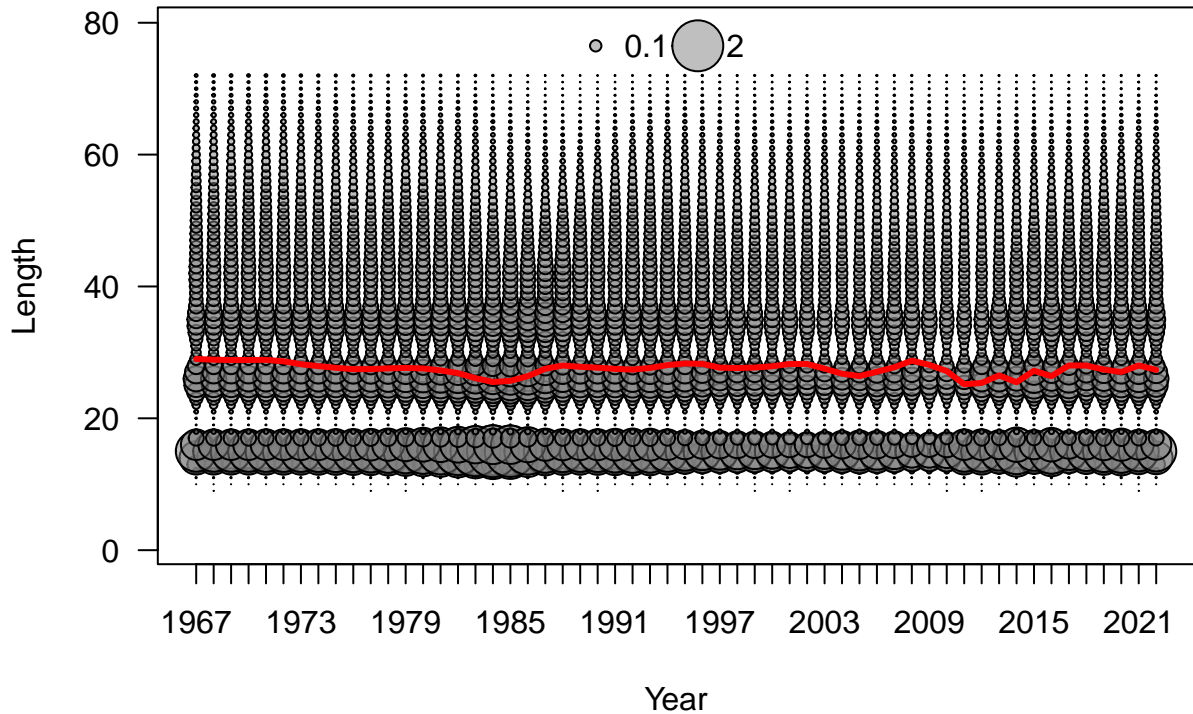


Age

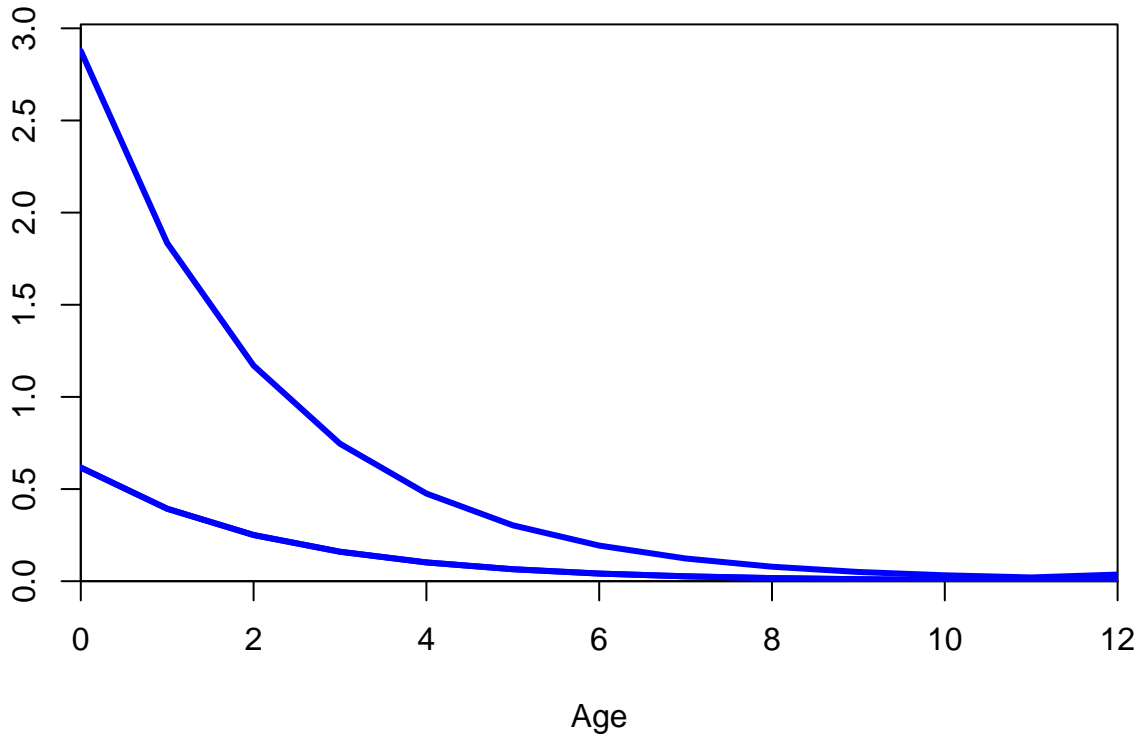


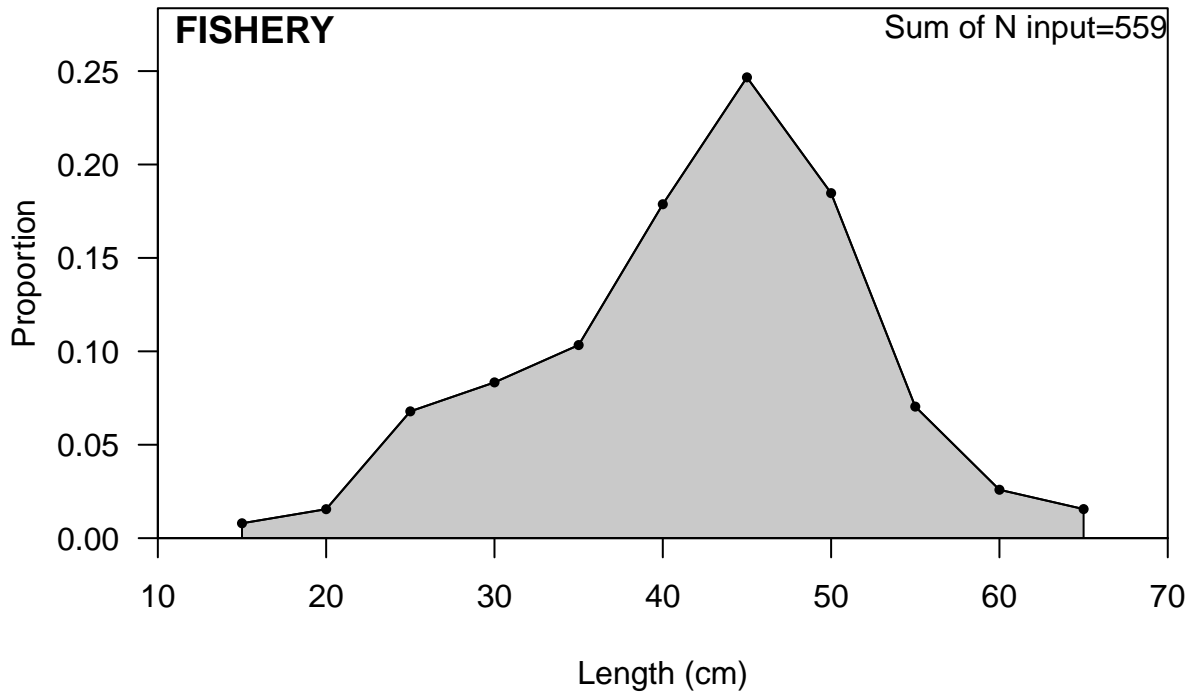
Length





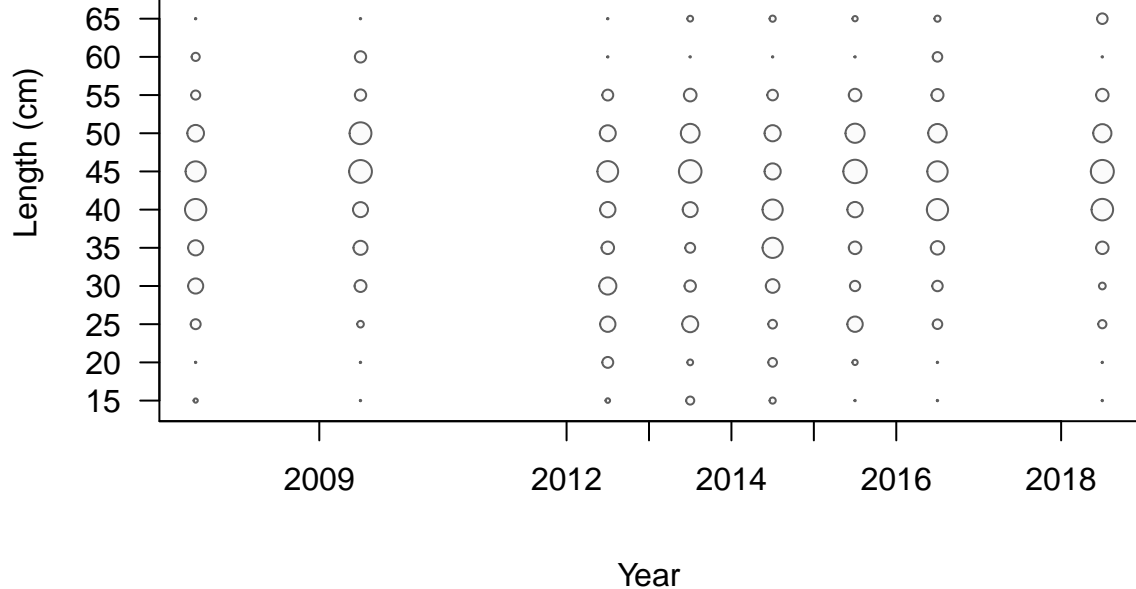
Numbers at age at equilibrium



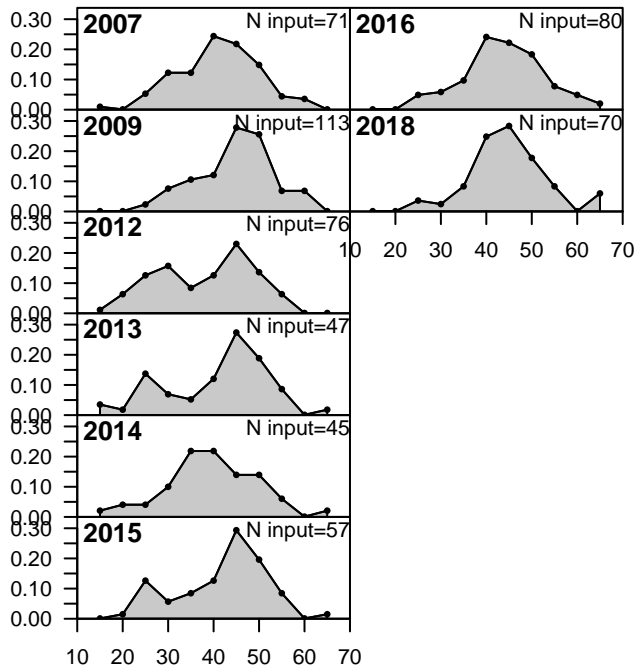


FISHERY

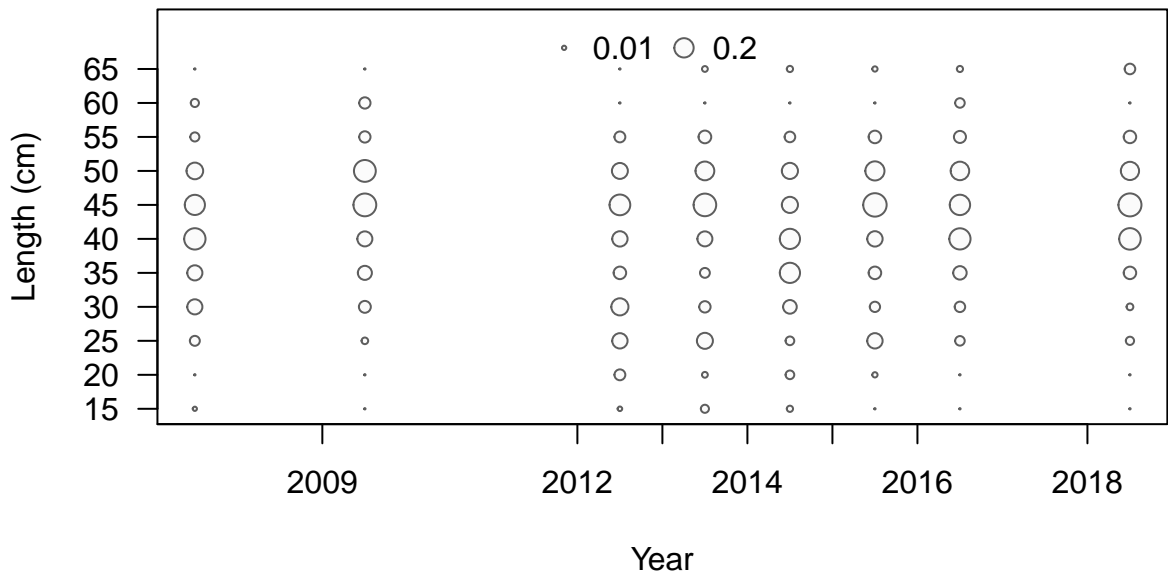
◦ 0.01 ○ 0.2



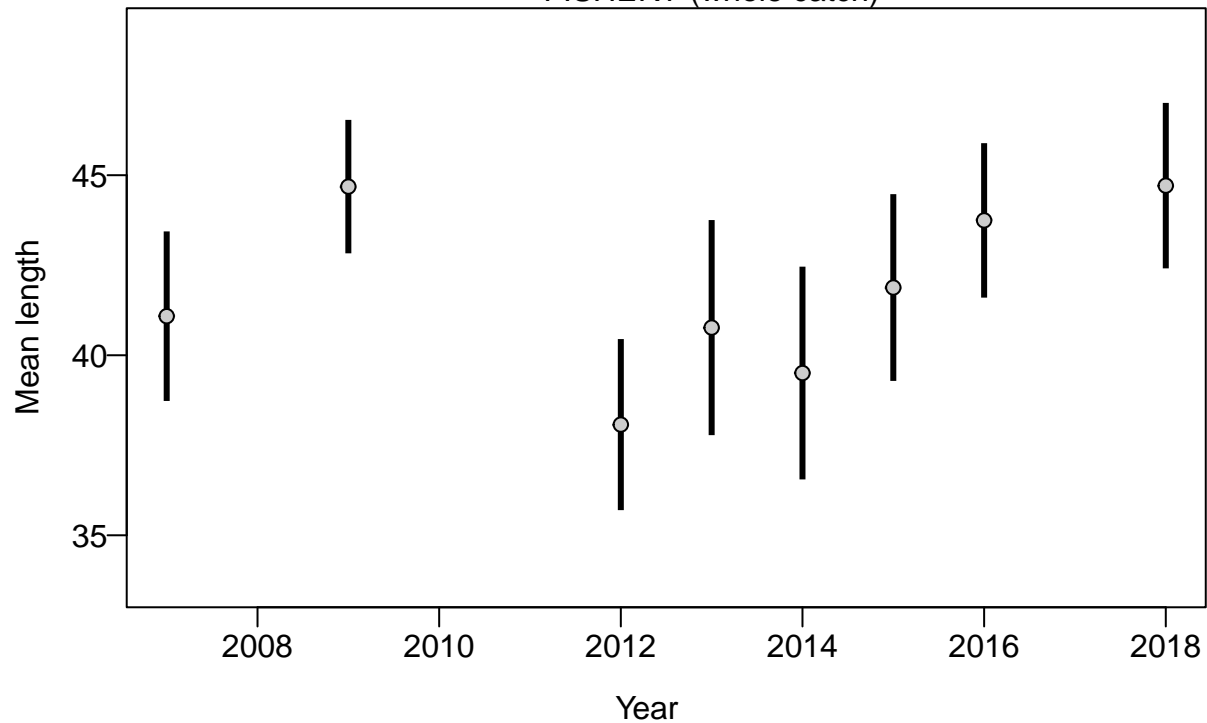
Proportion



Length (cm)

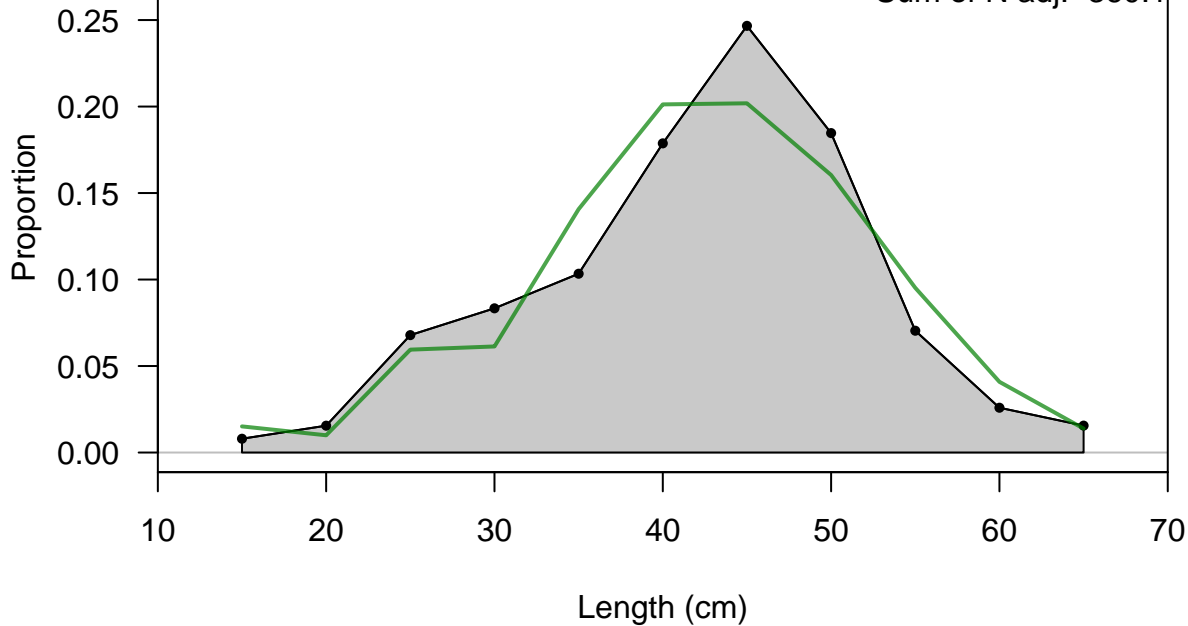


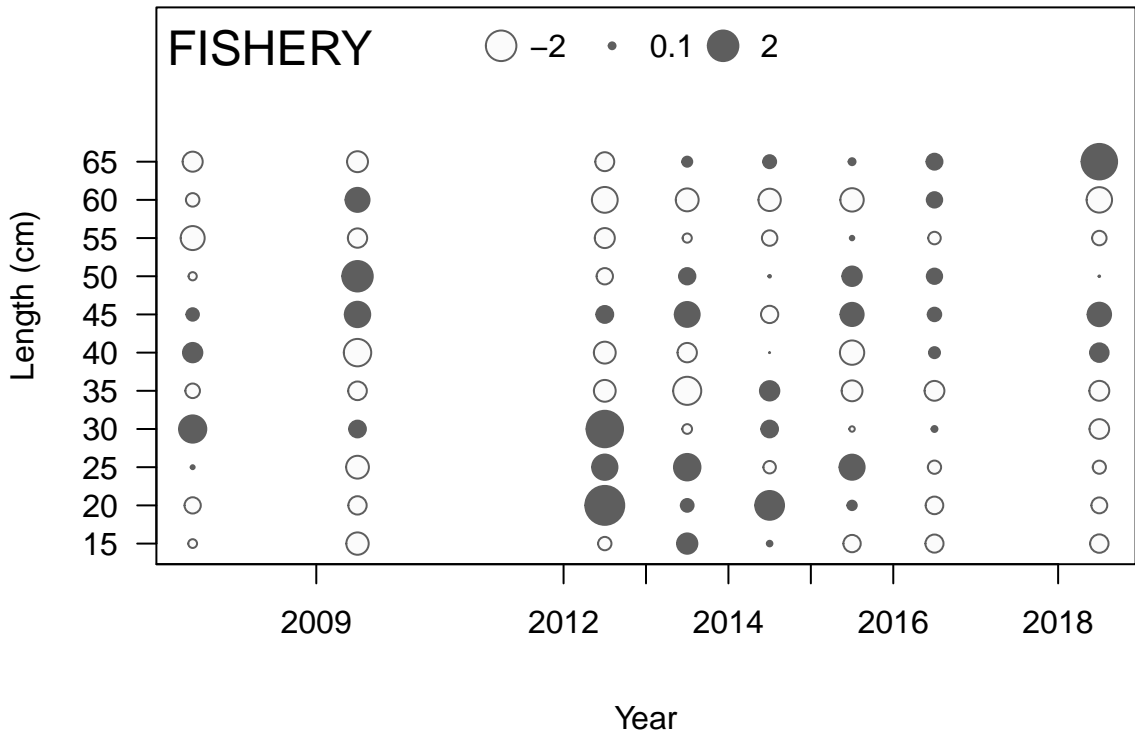
FISHERY (whole catch)



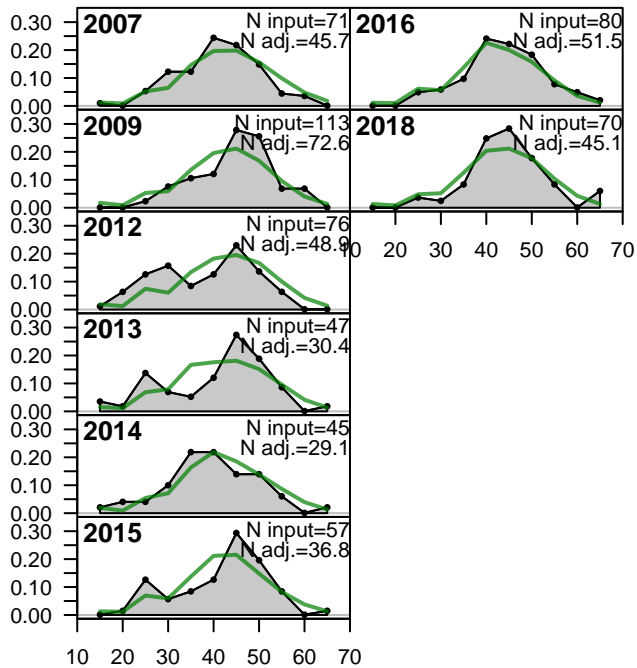
FISHERY

Sum of N input=559
Sum of N adj.=360.1

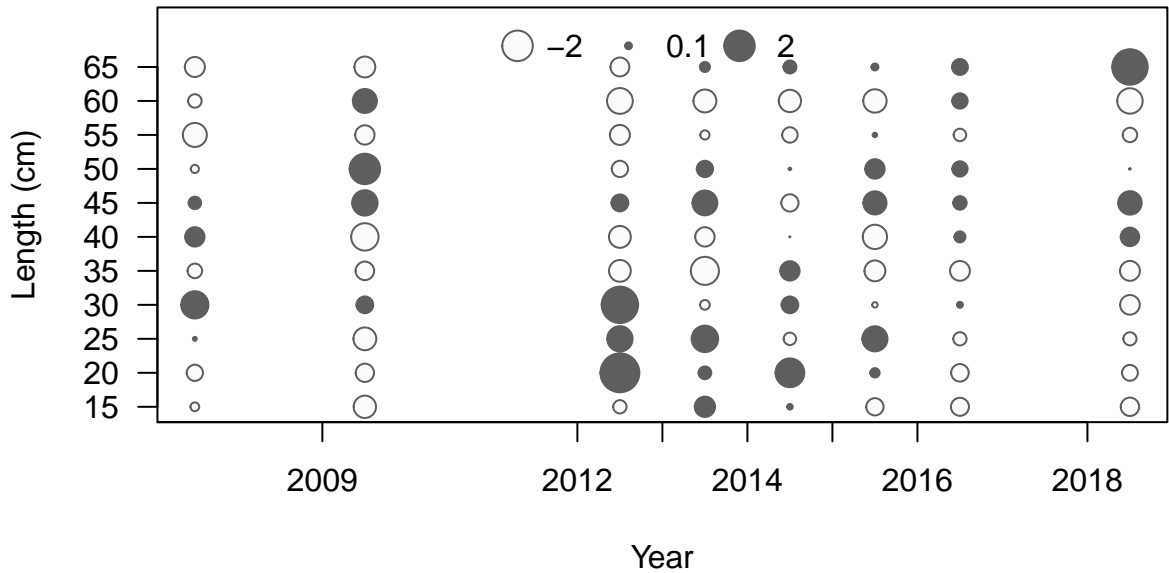




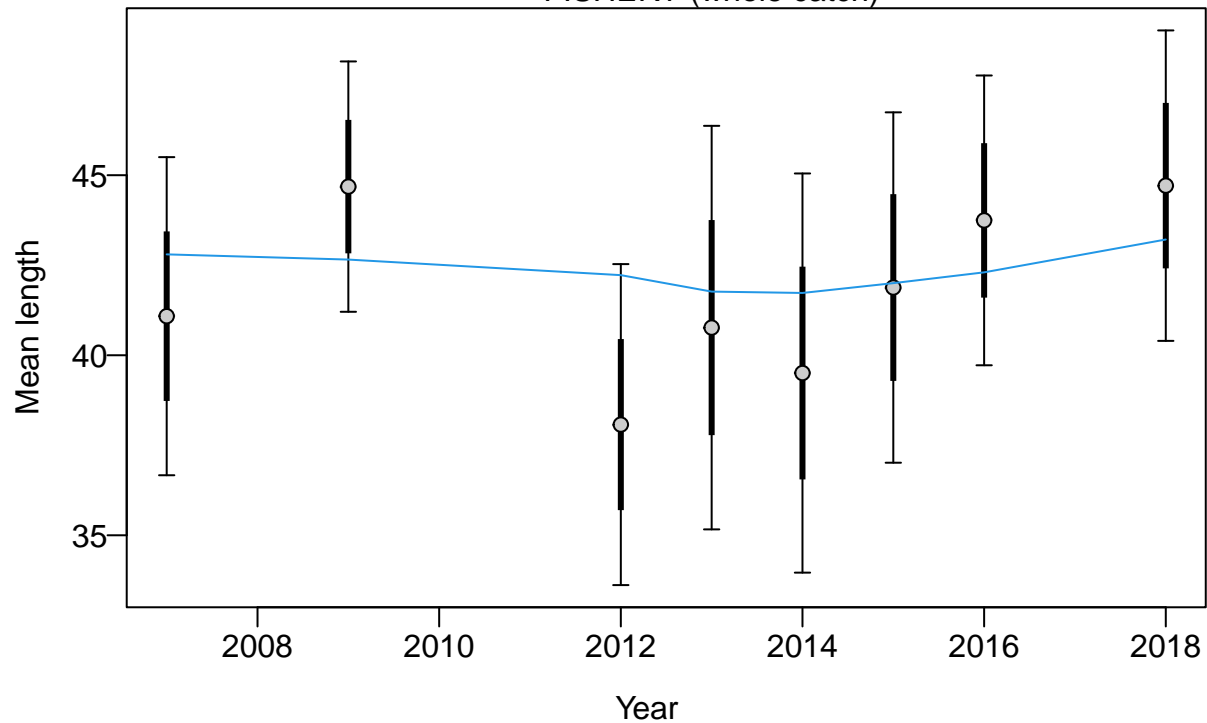
Proportion

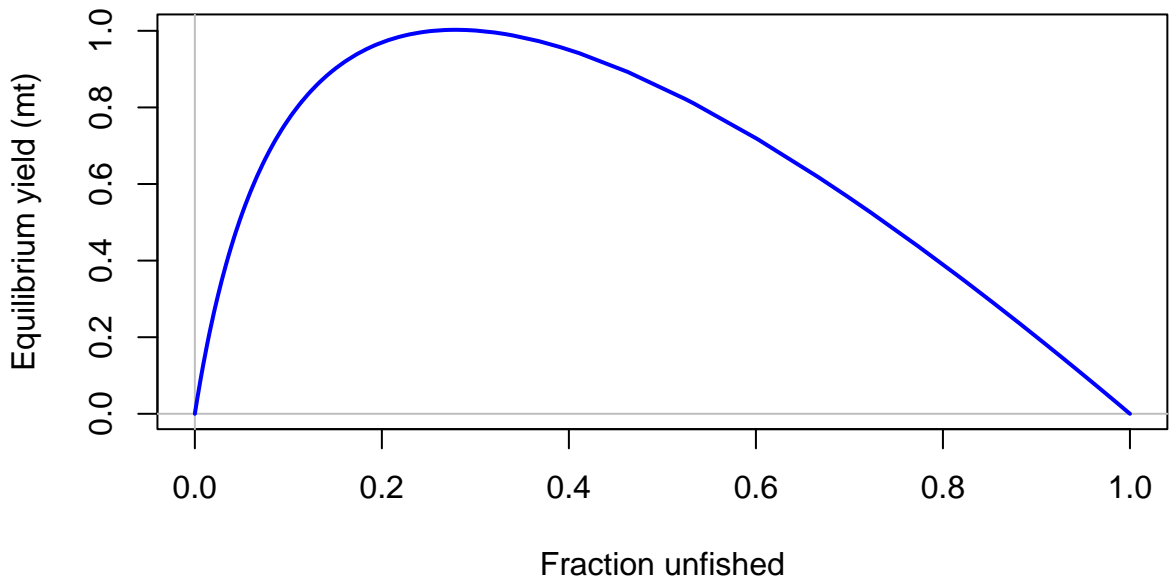


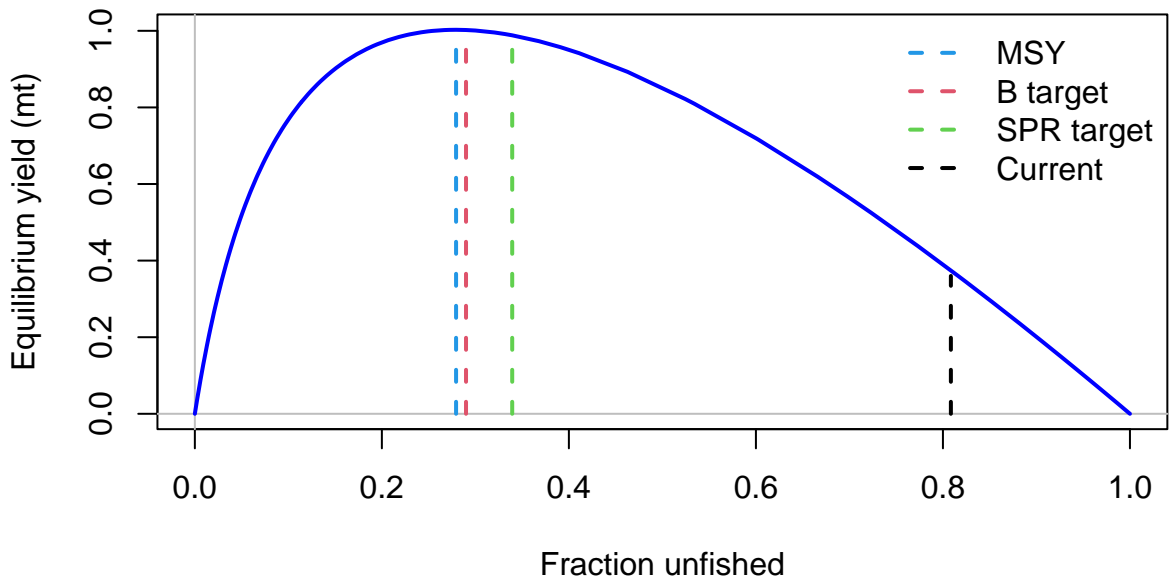
Length (cm)

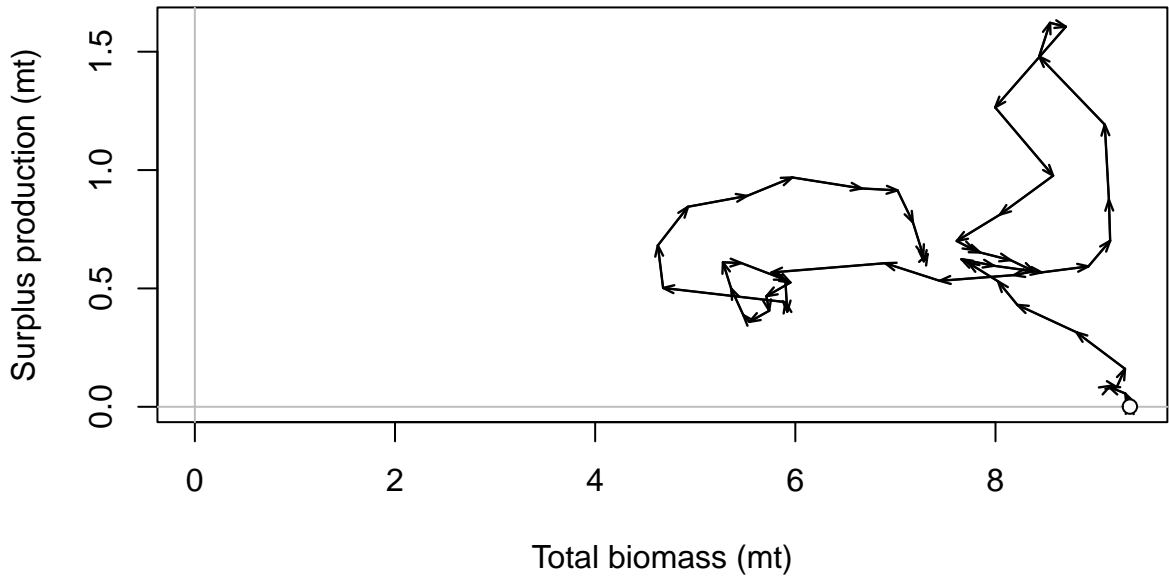


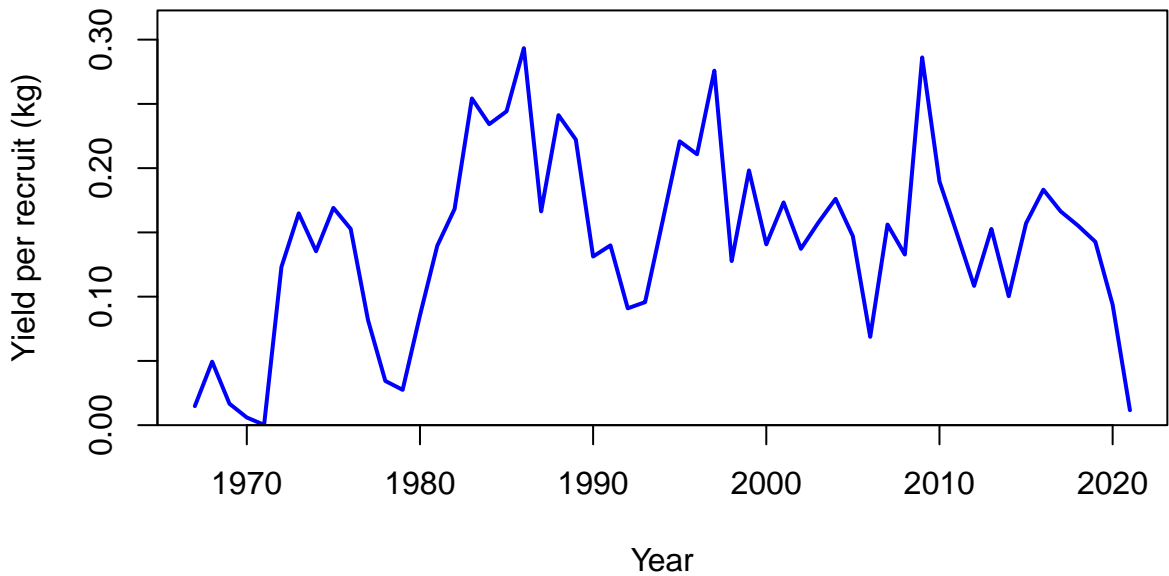
FISHERY (whole catch)

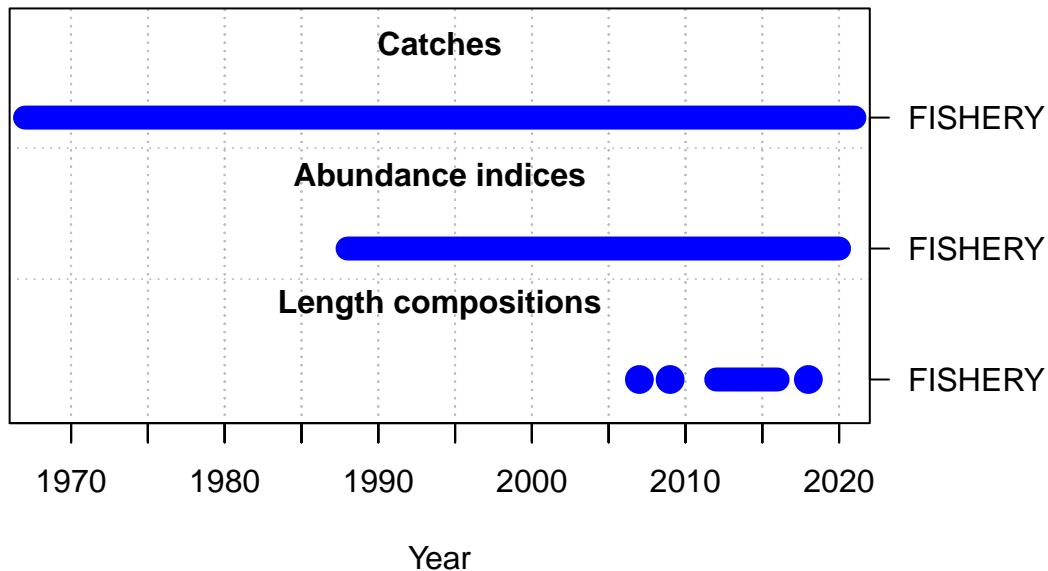


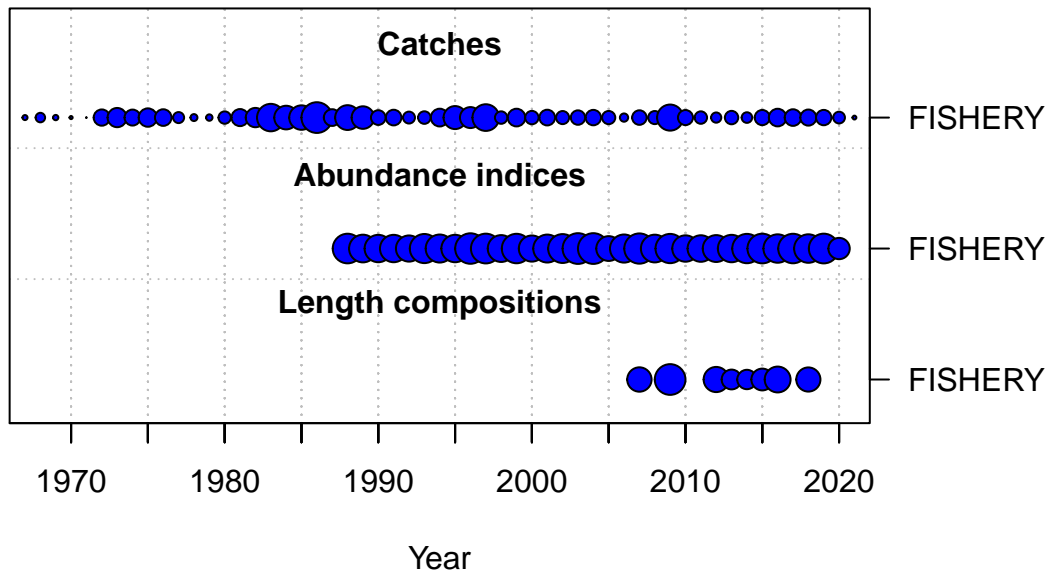




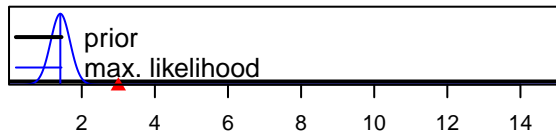




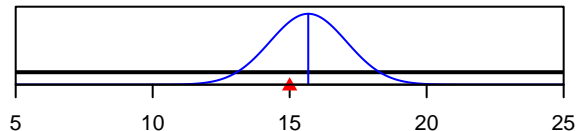




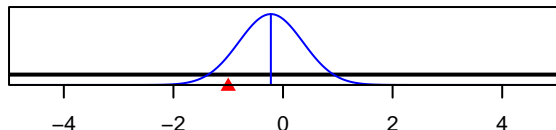
SR_LN(R0)



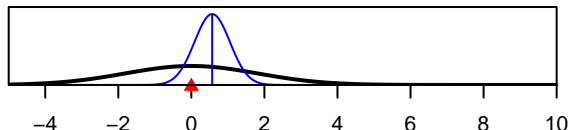
Size_95%width_FISHERY(1)



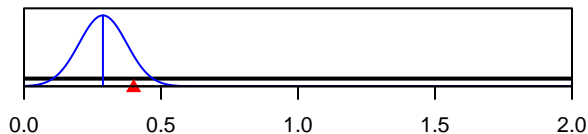
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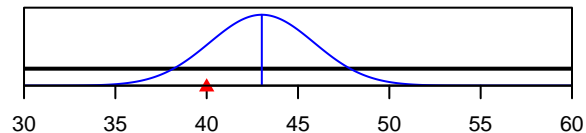
ln(DM_theta)_1



Q_extraSD_FISHERY(1)



Size_inflection_FISHERY(1)



Parameter value