

Plots created using the 'r4ss' package in R

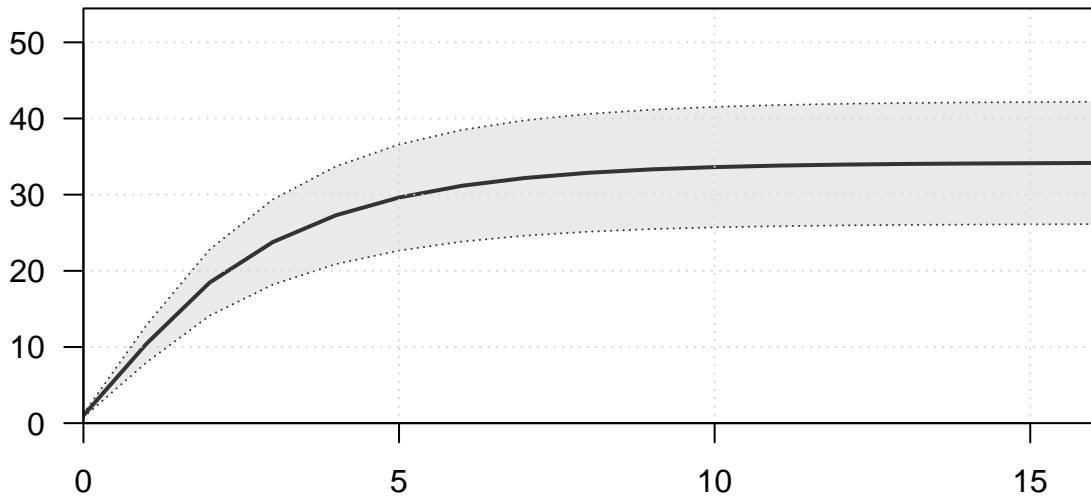
Stock Synthesis version: 3.30.19.0

StartTime: Mon Jun 20 14:09:58 2022

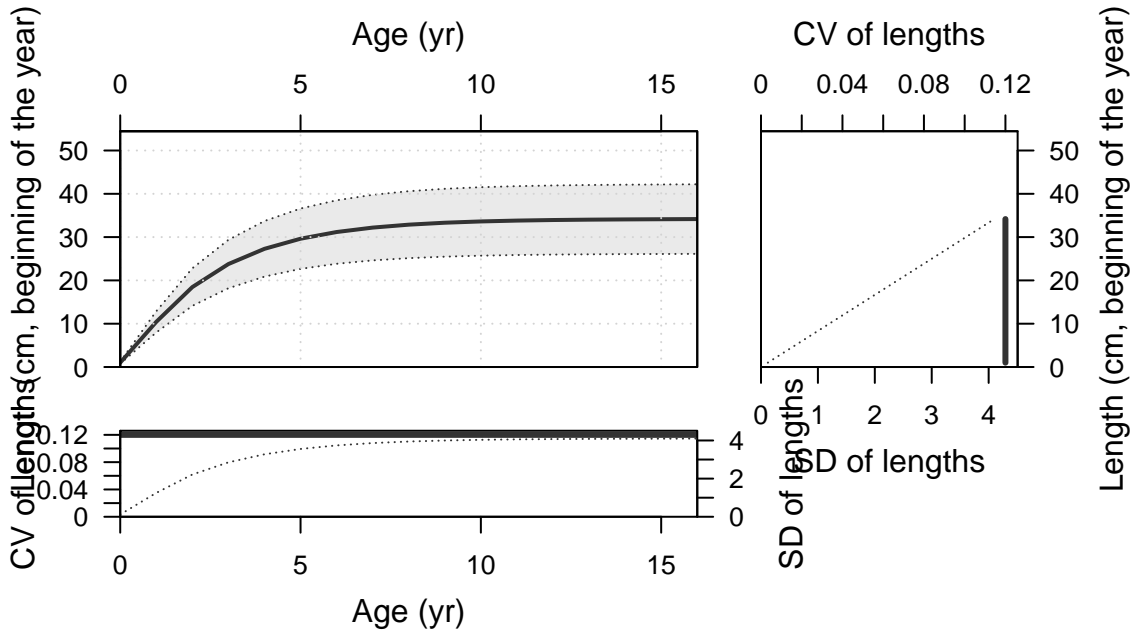
Data_File: data.ss

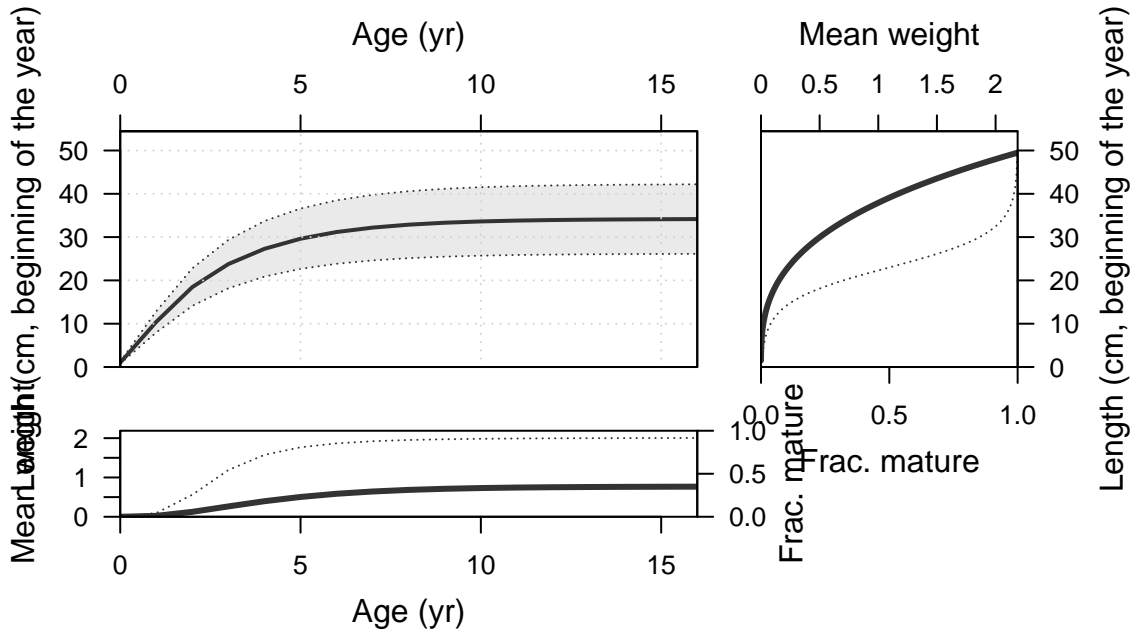
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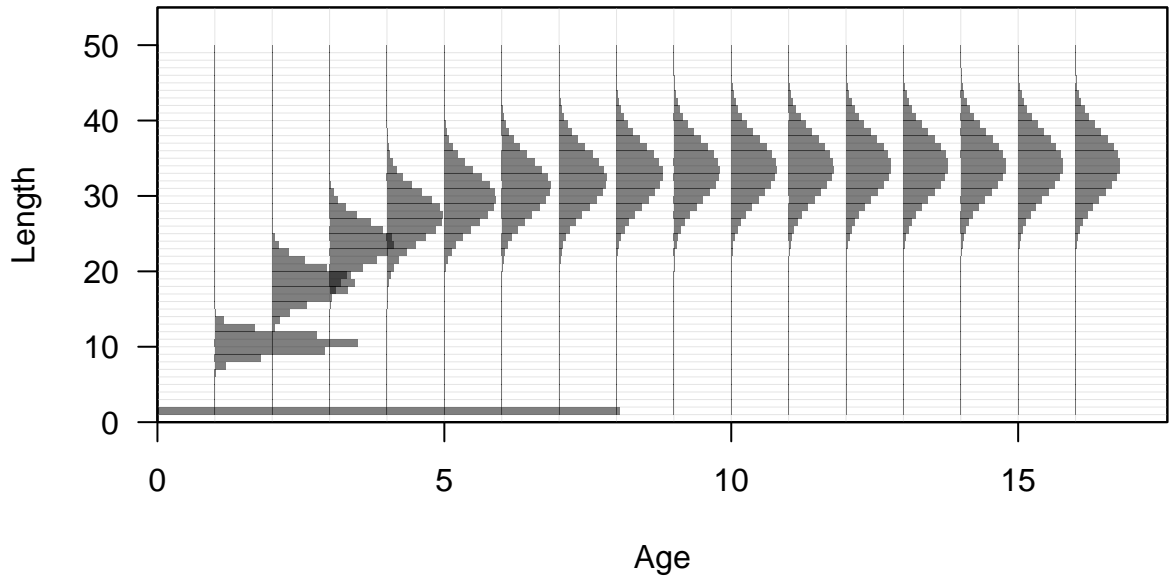
Length (cm, beginning of the year)

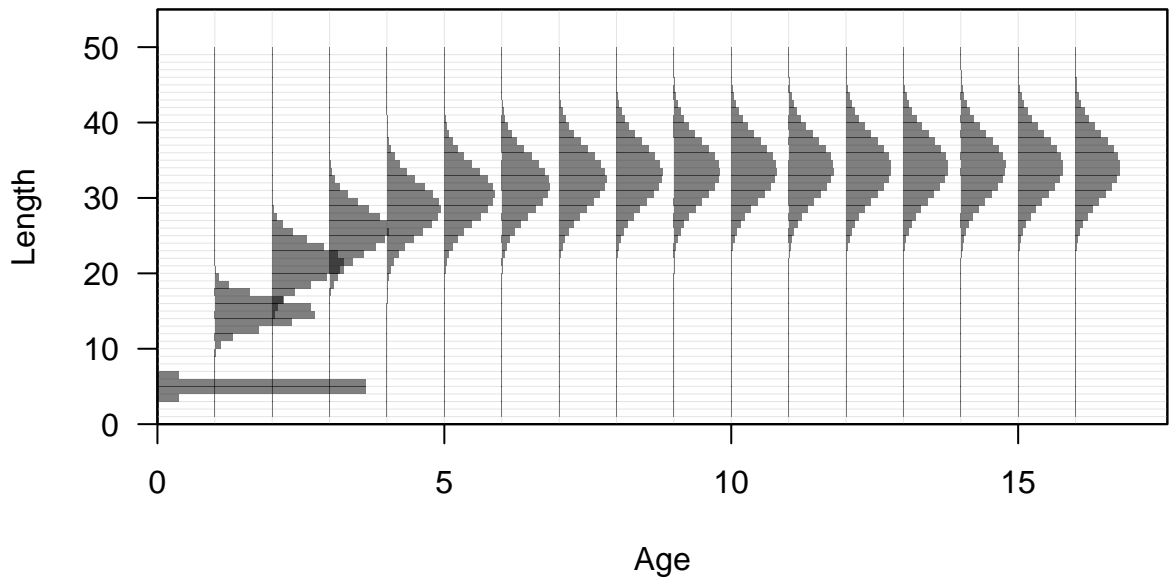


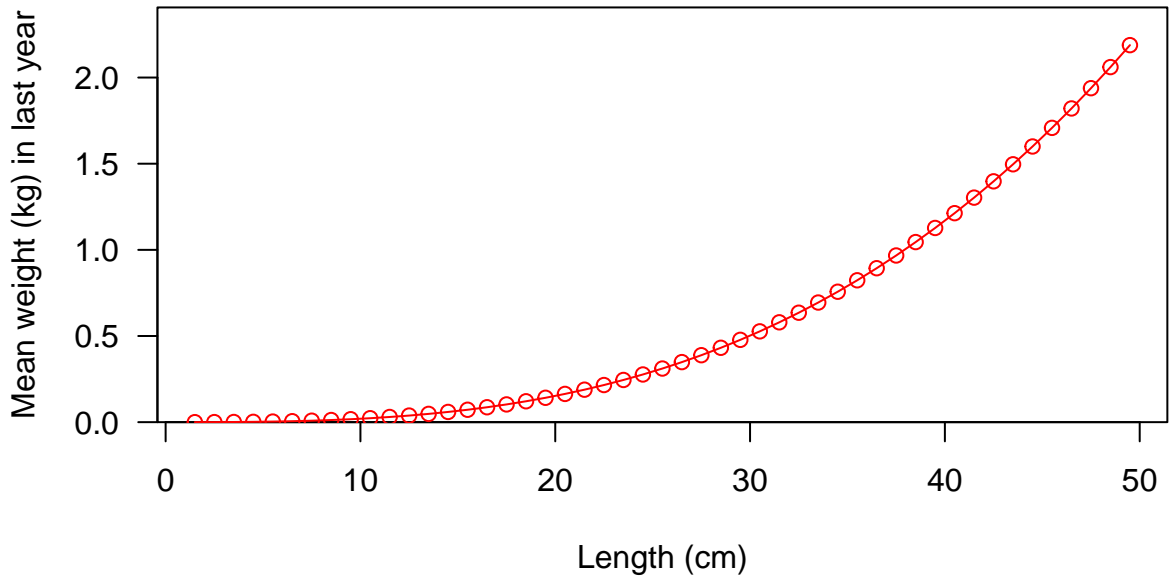
Age (yr)

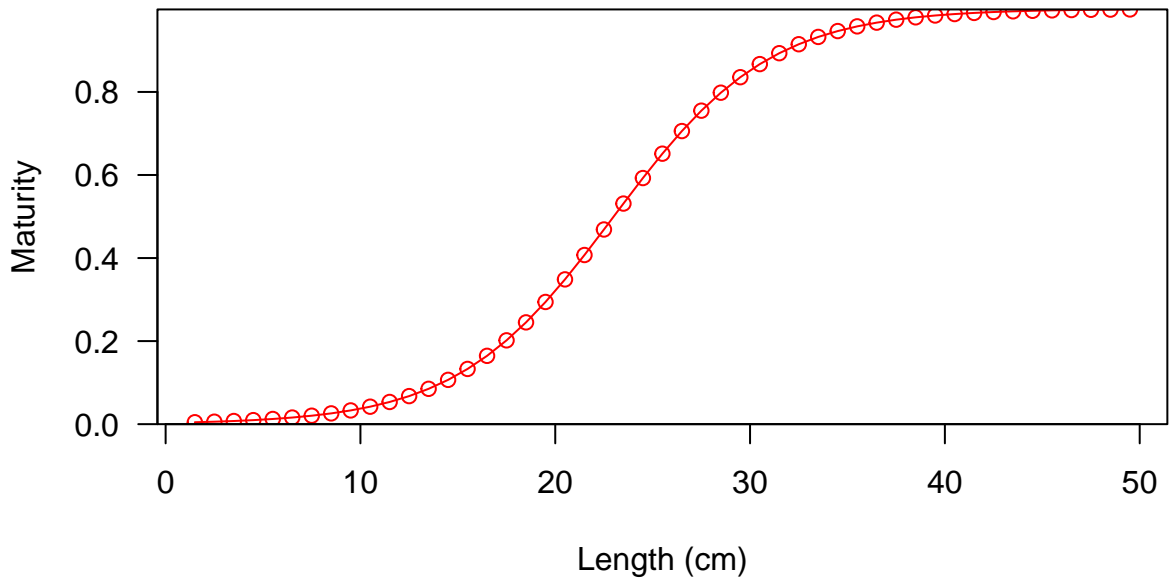


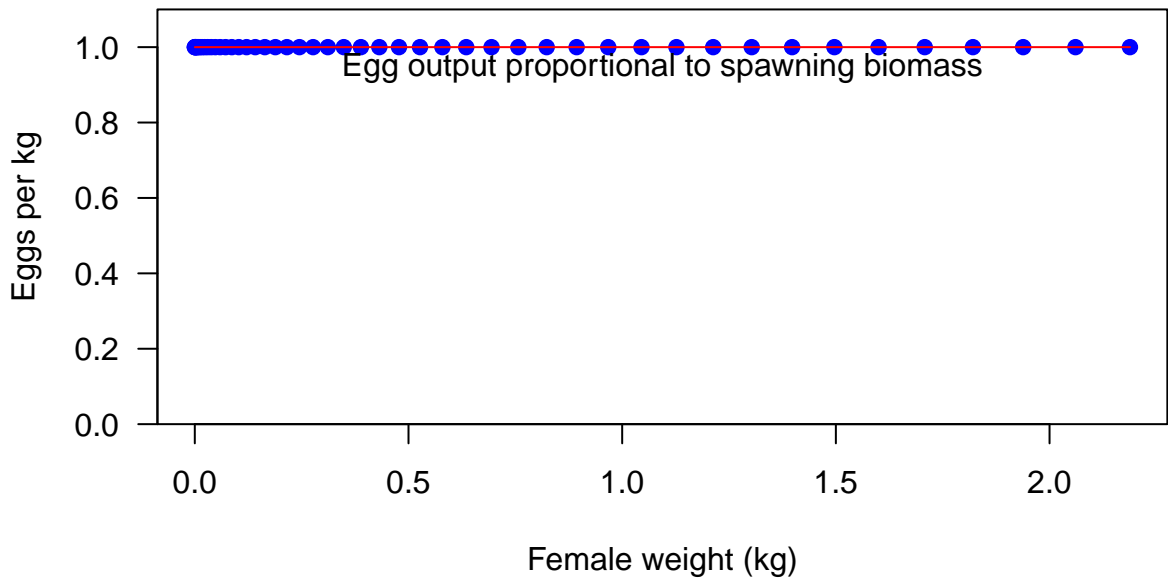


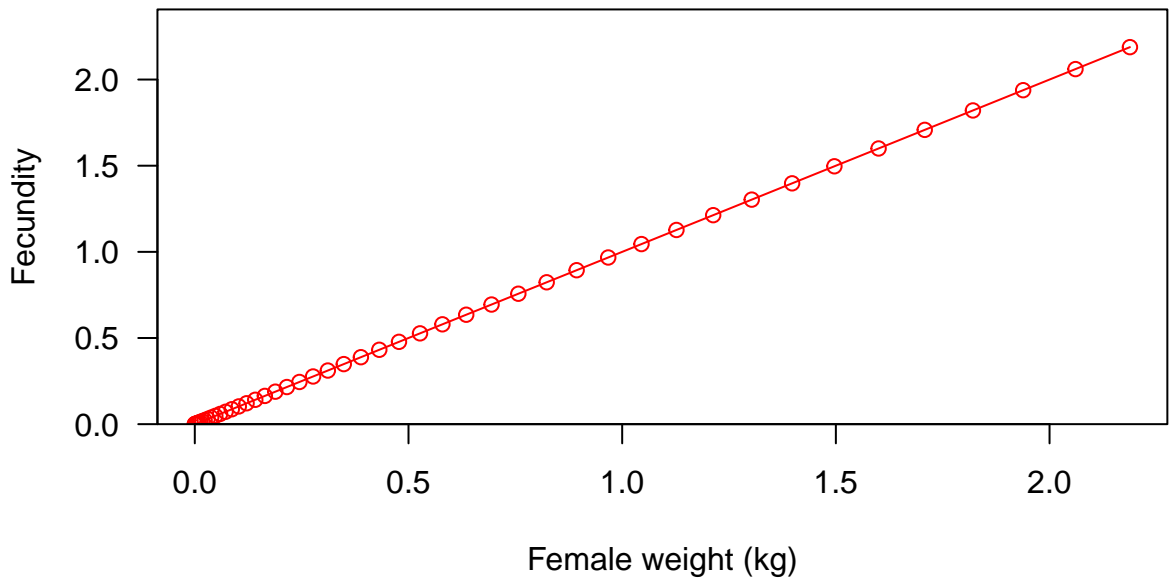


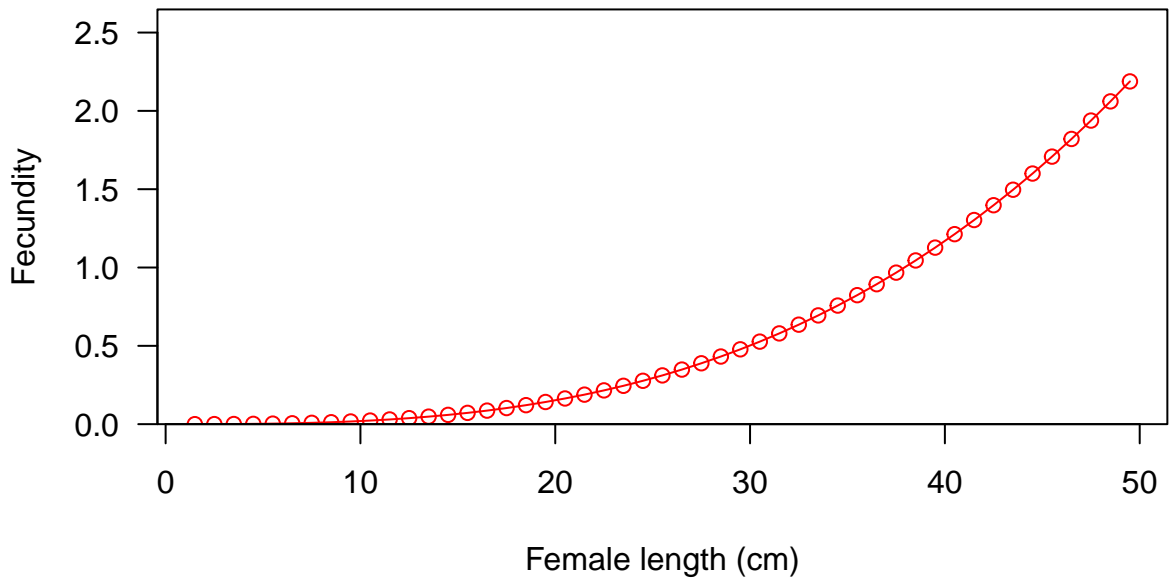


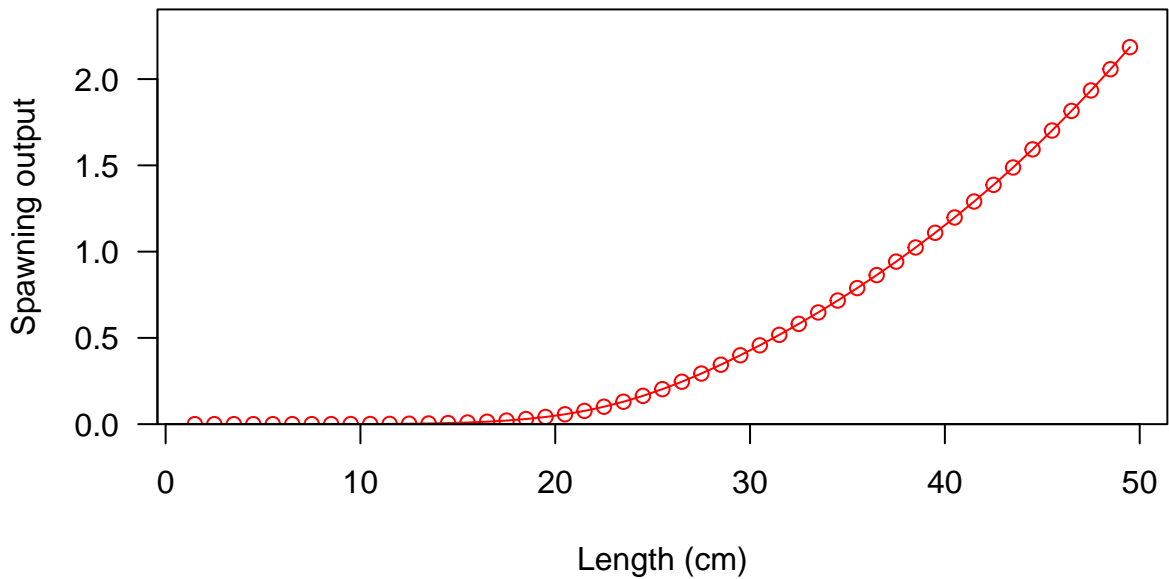


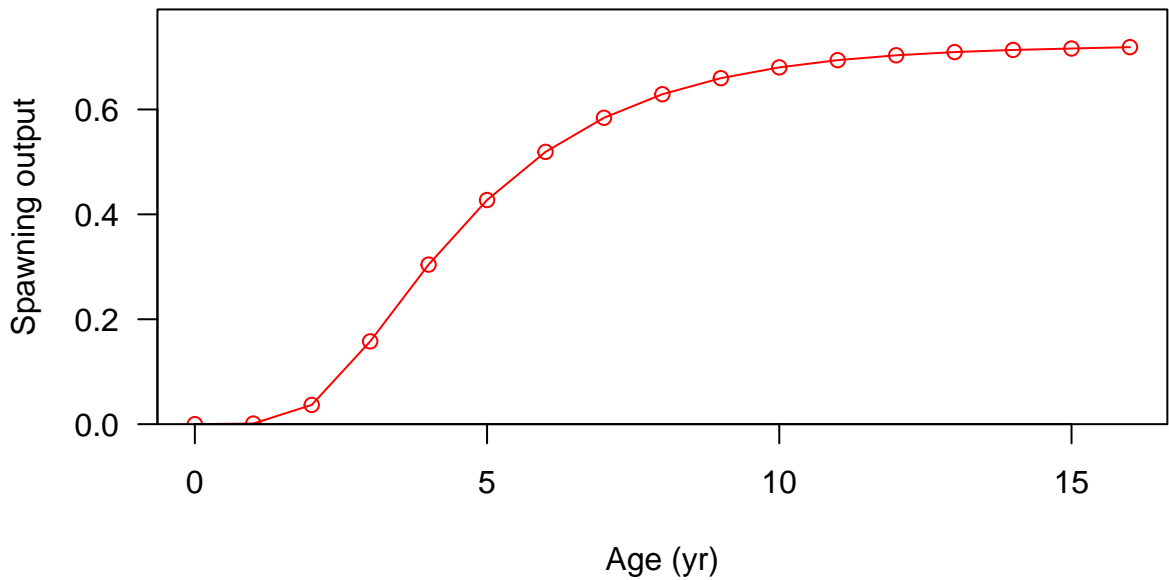




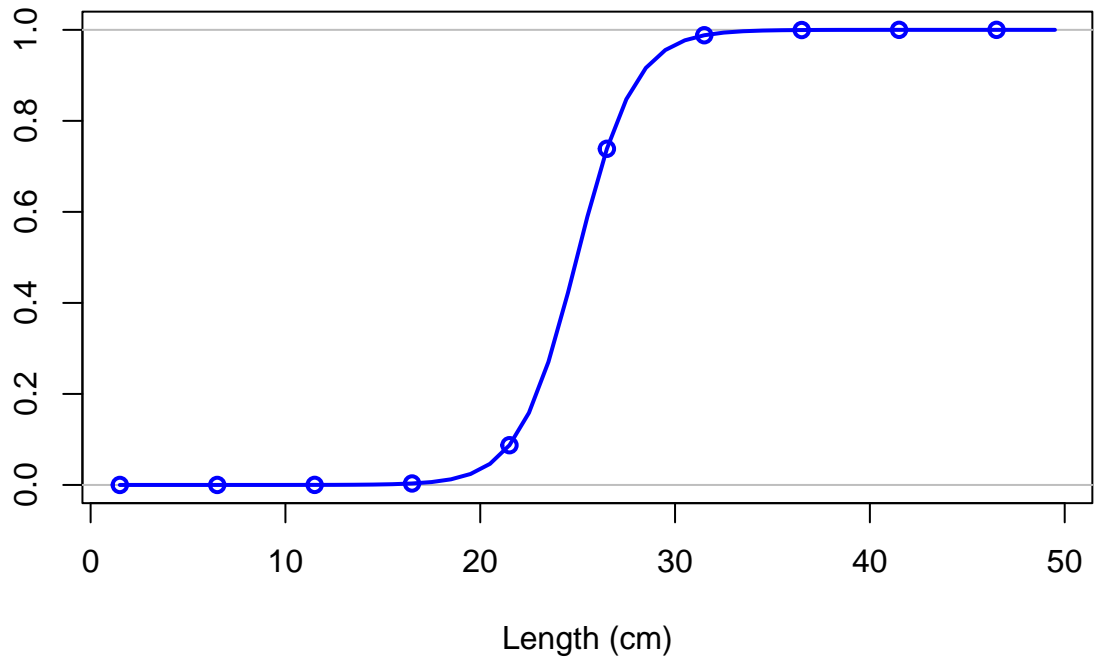




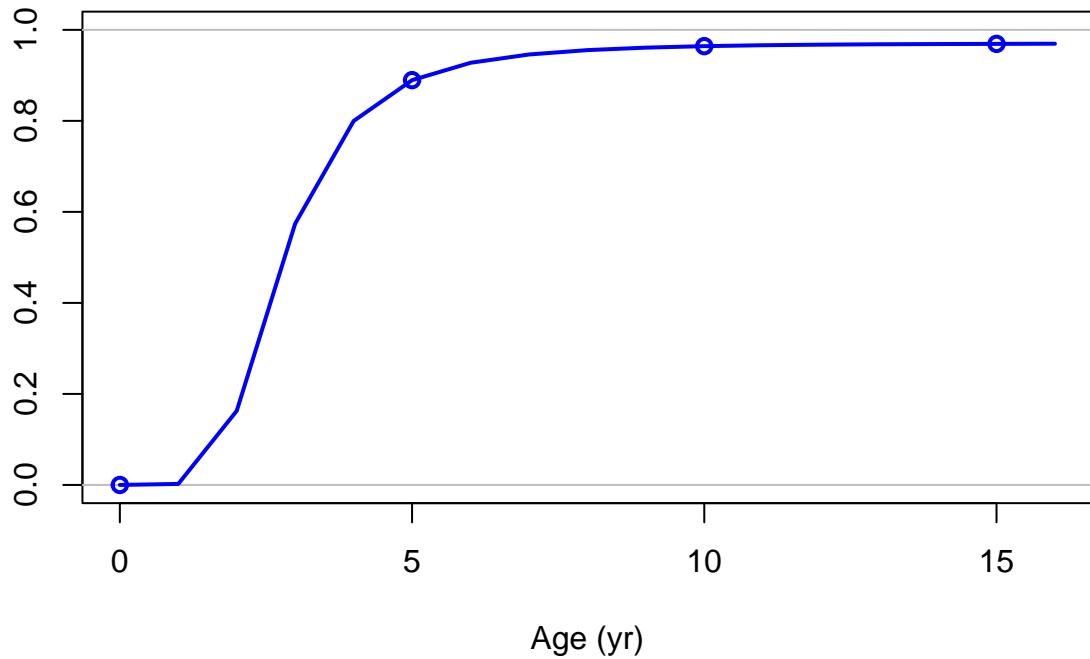




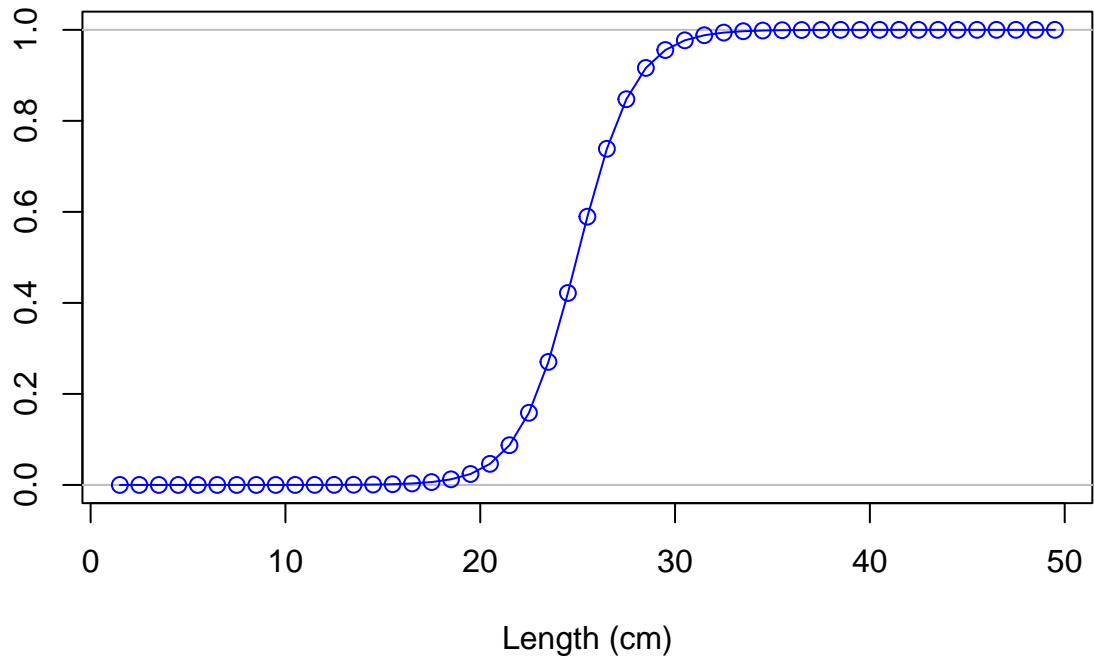
Selectivity

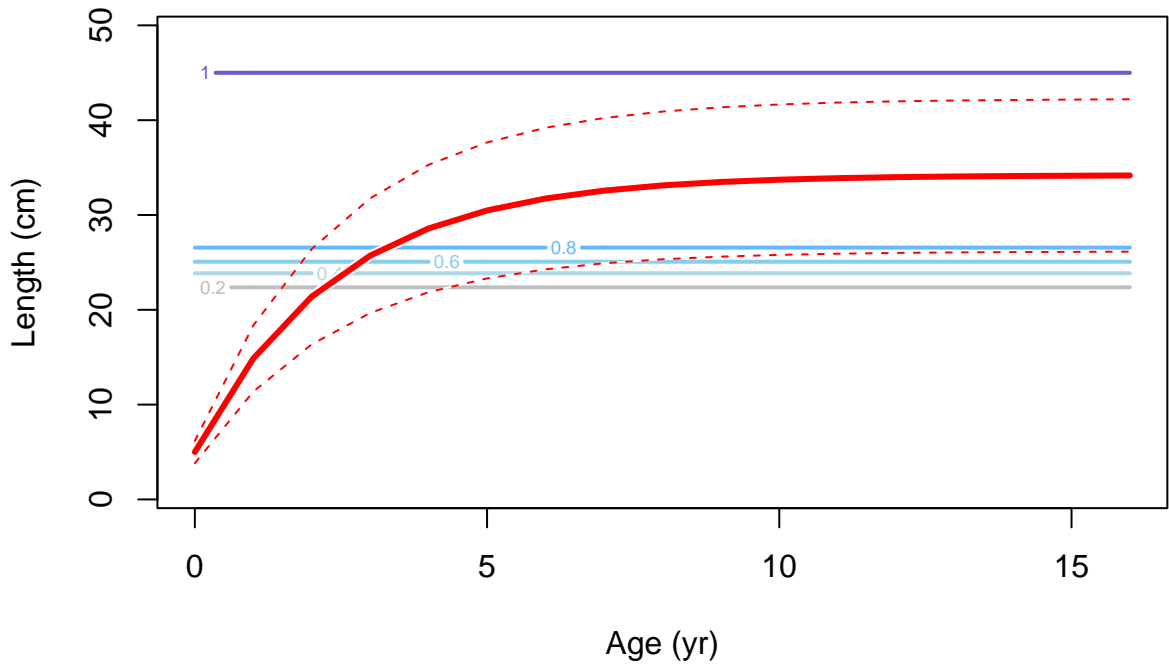


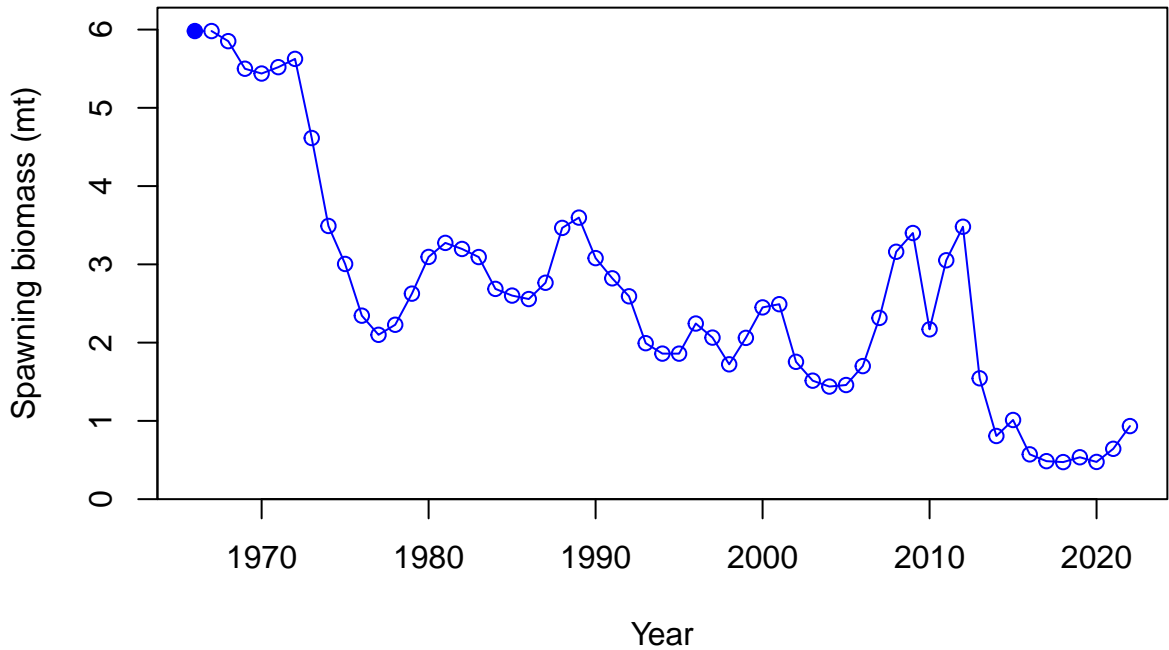
Selectivity



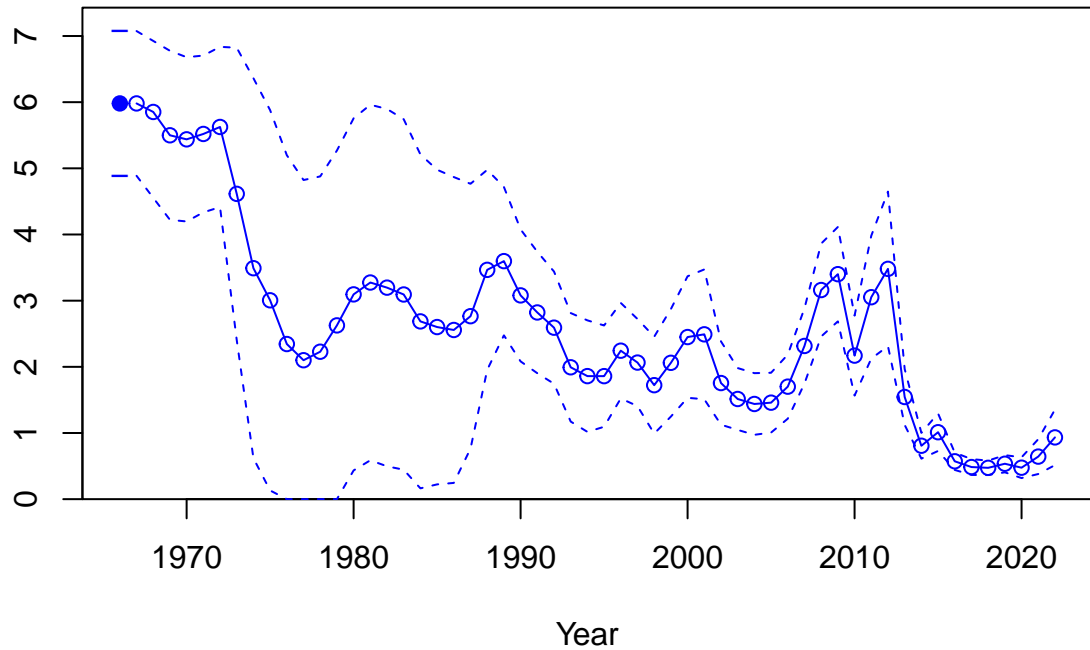
Selectivity



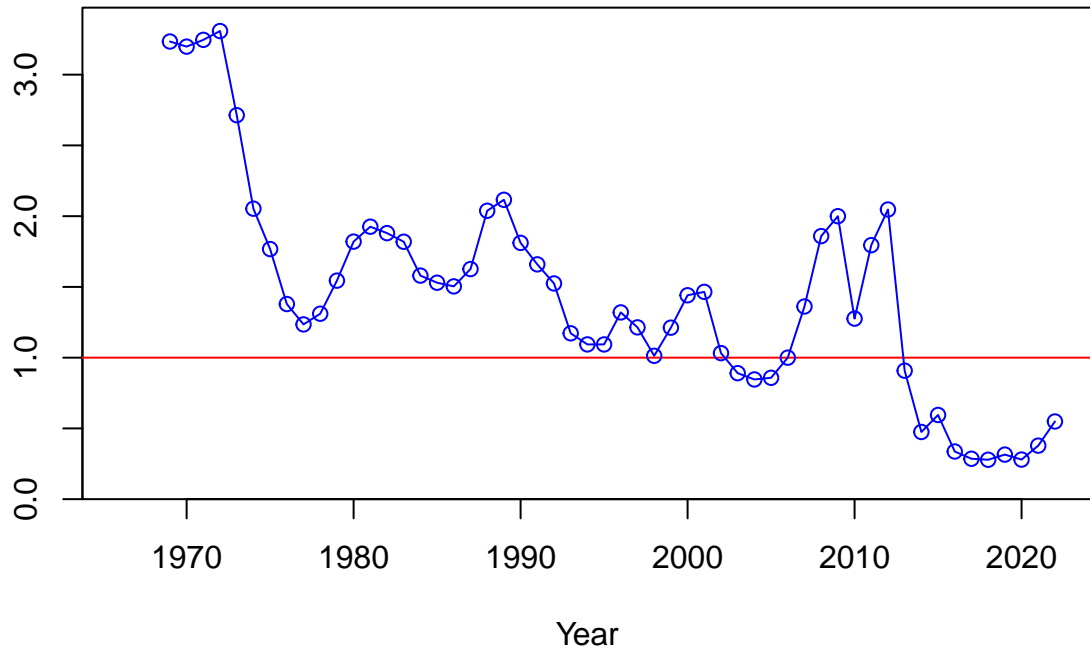




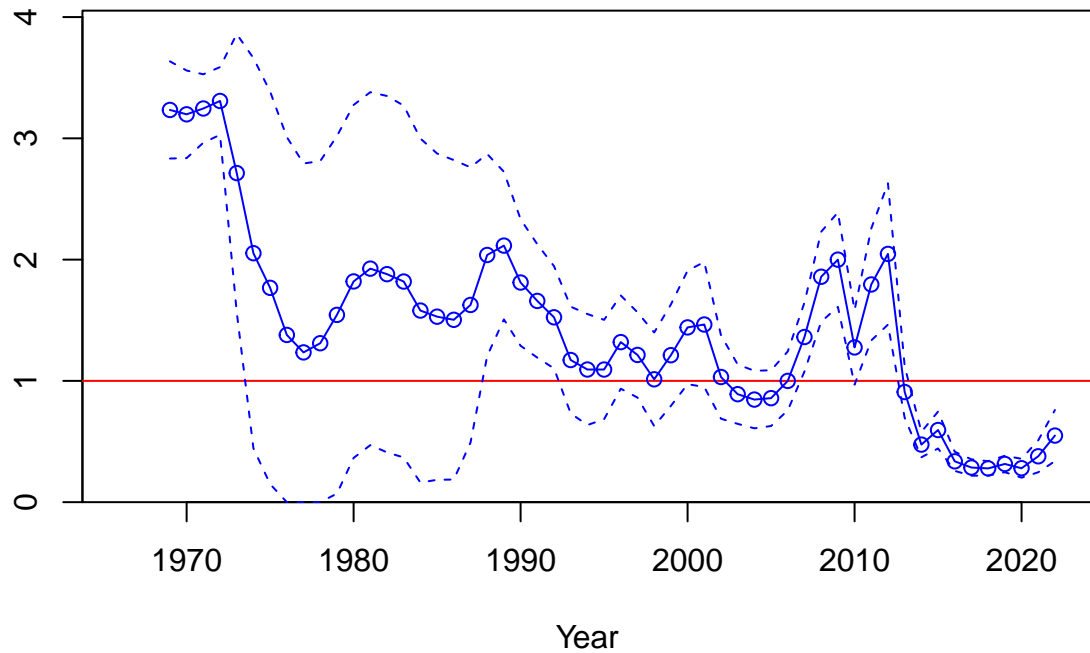
Spawning biomass (mt)

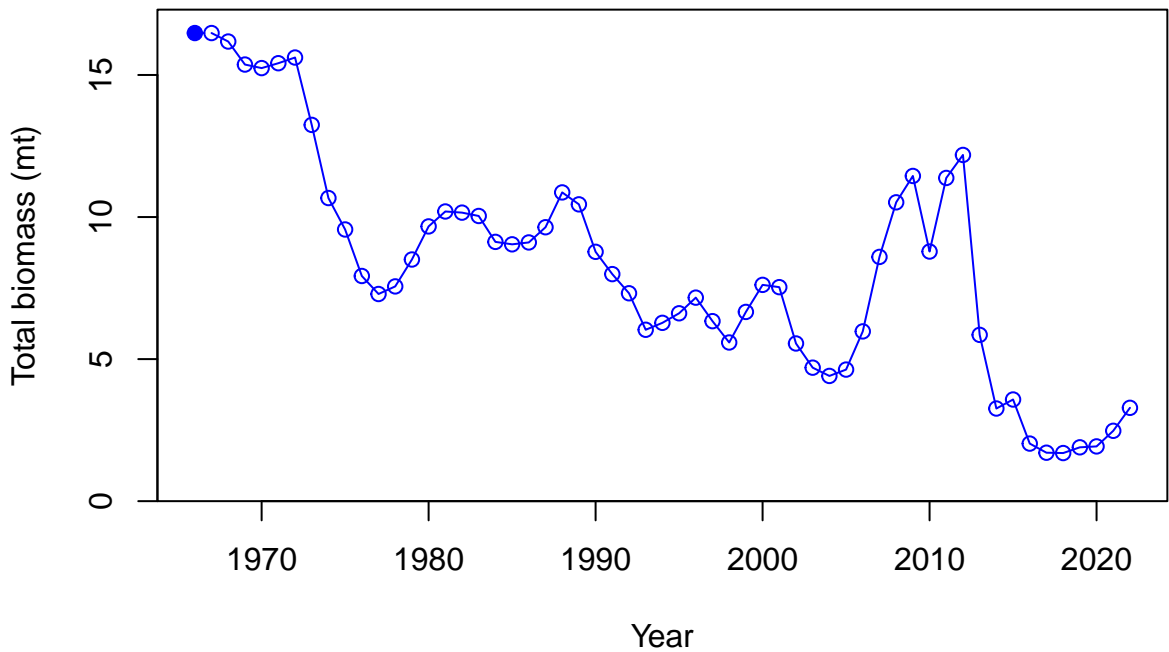


Relative spawning biomass: B/B_{MSY}

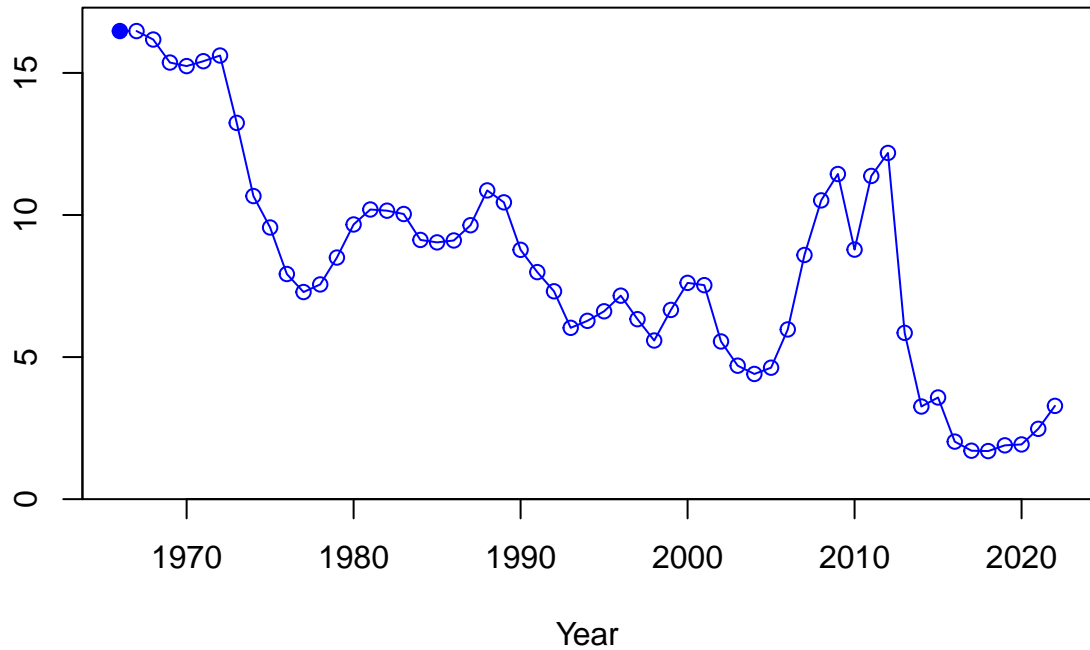


Relative spawning biomass: B/B_{MSY}

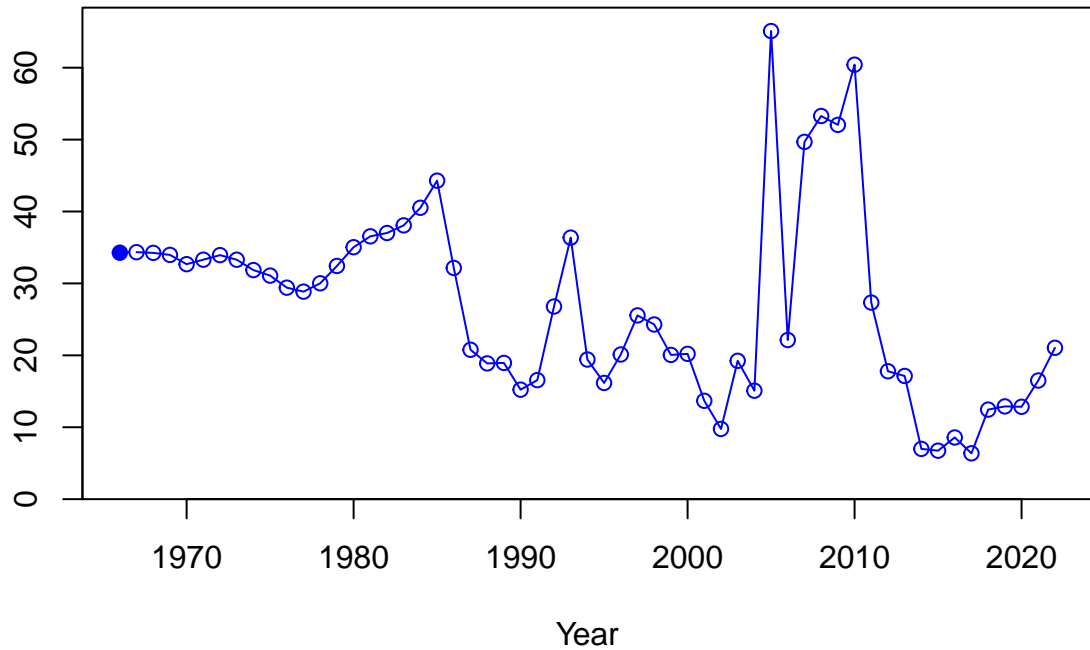




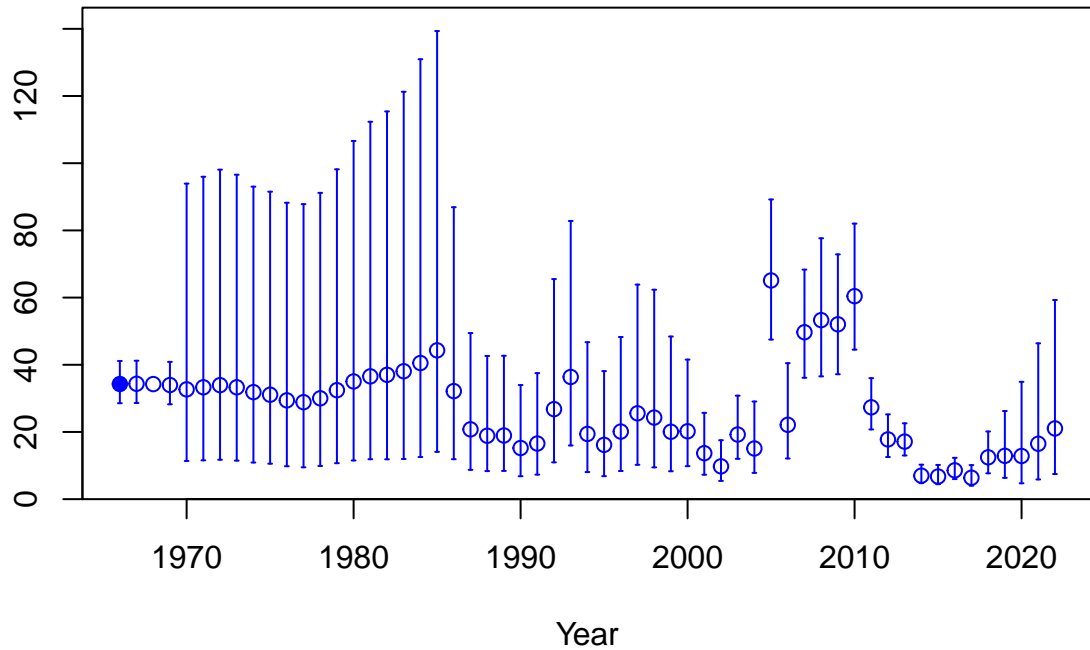
Summary biomass (mt)



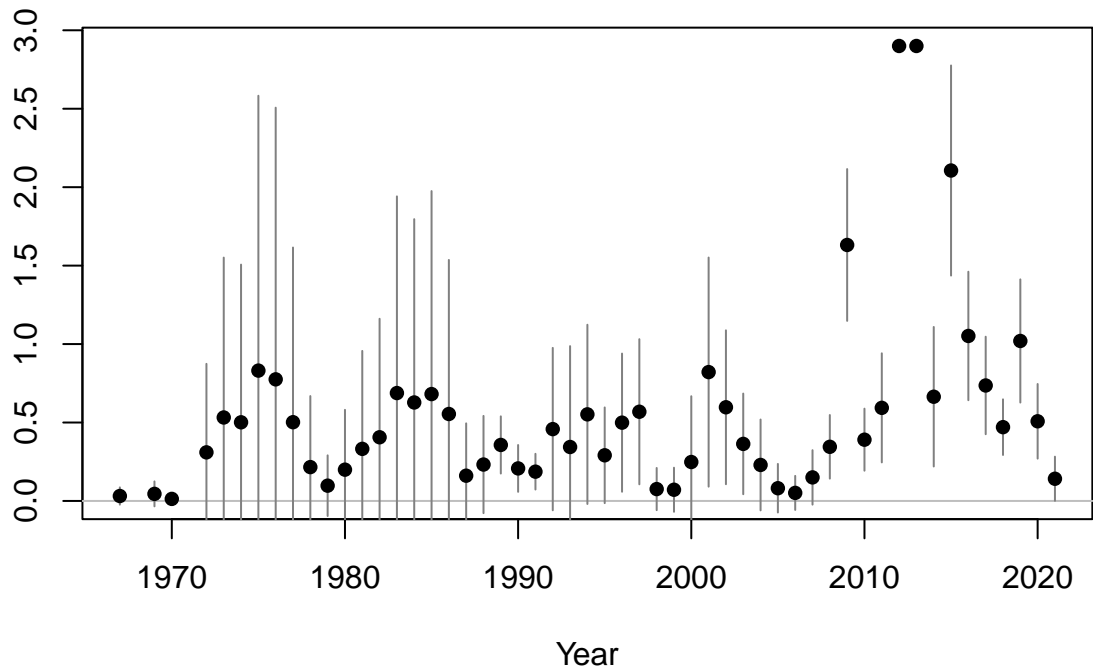
Age-0 recruits (1,000s)

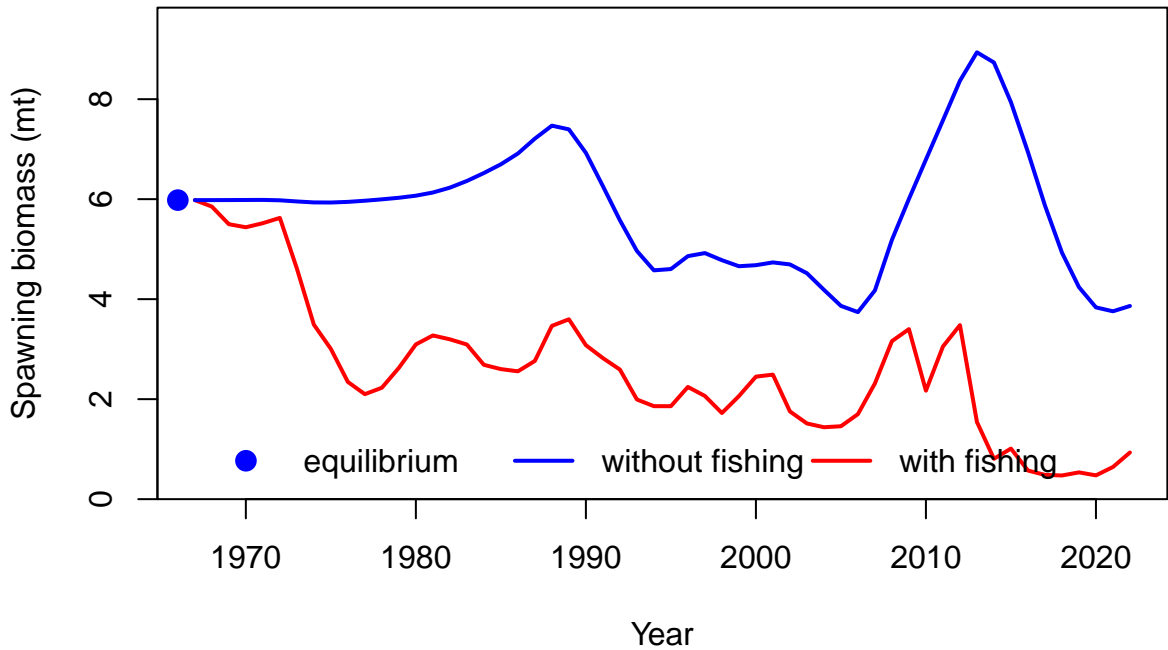


Age-0 recruits (1,000s)

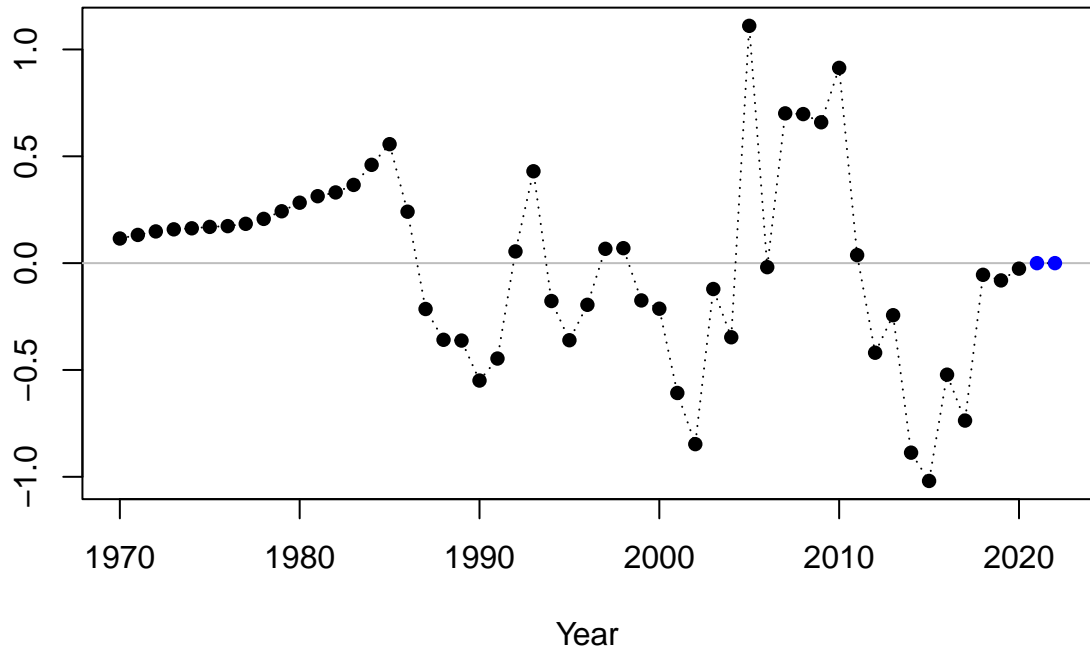


Summary Fishing Mortality

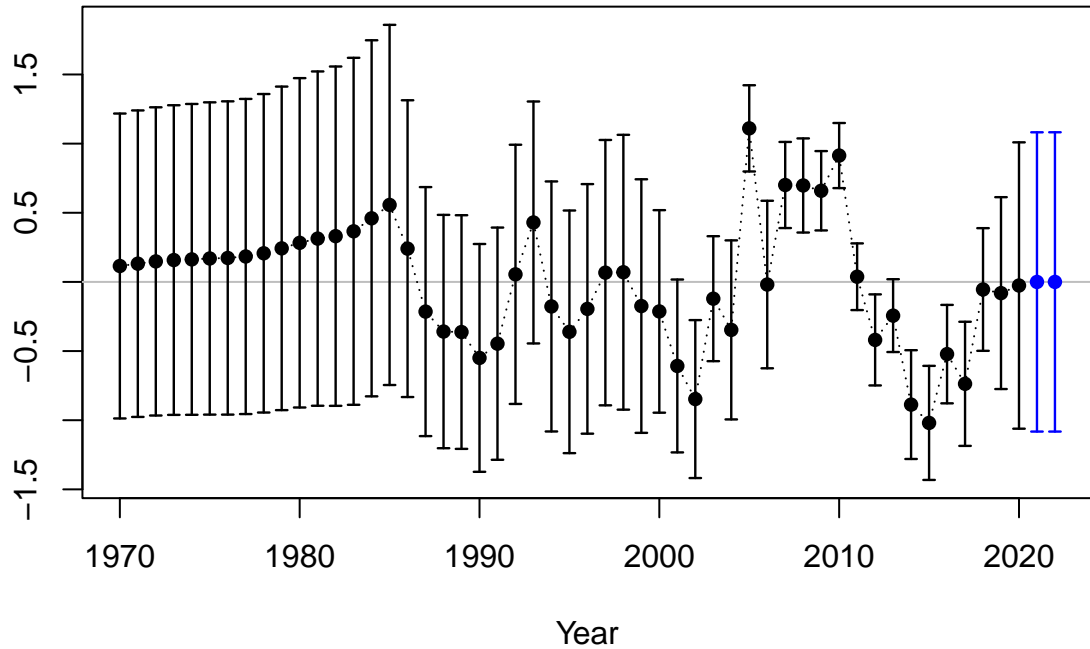




Log recruitment deviation

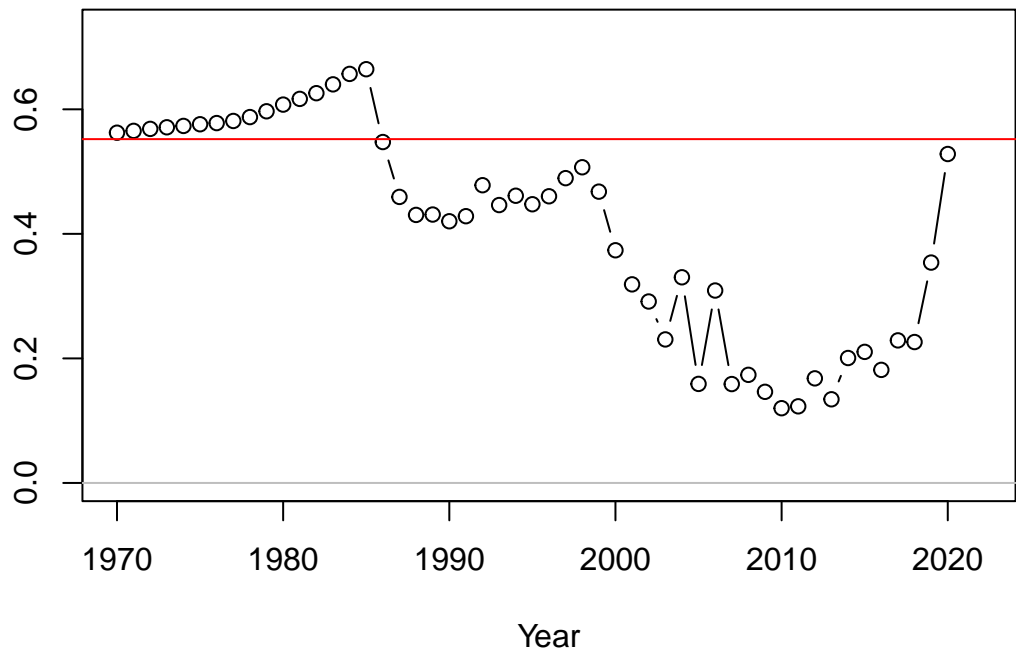


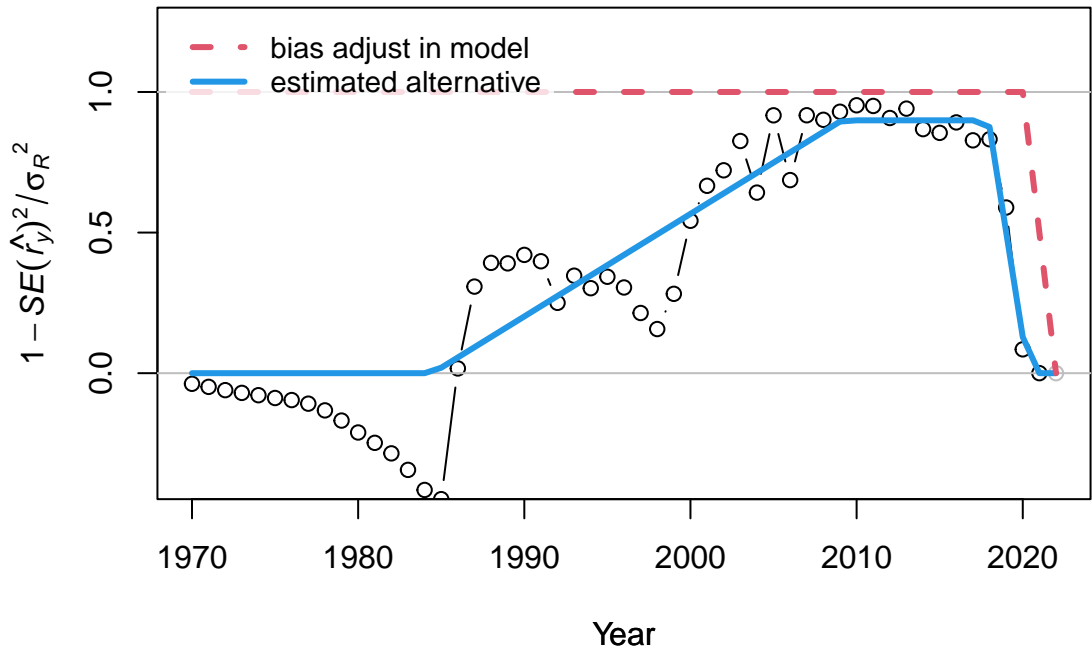
Log recruitment deviation

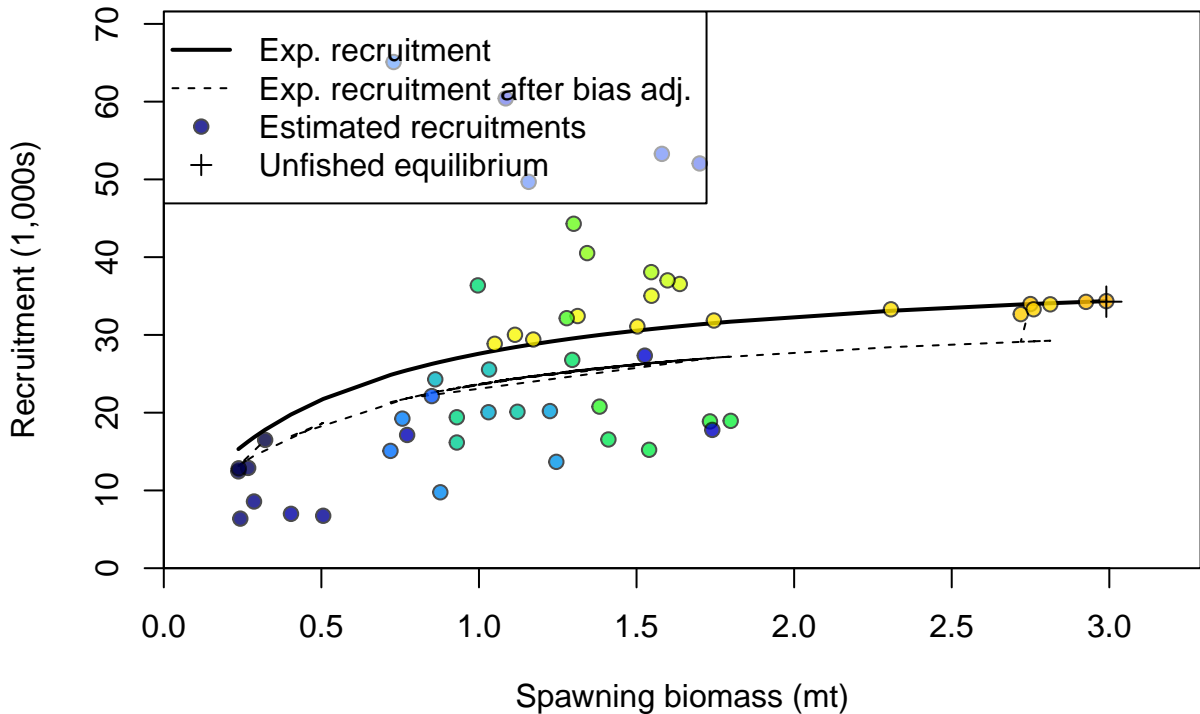


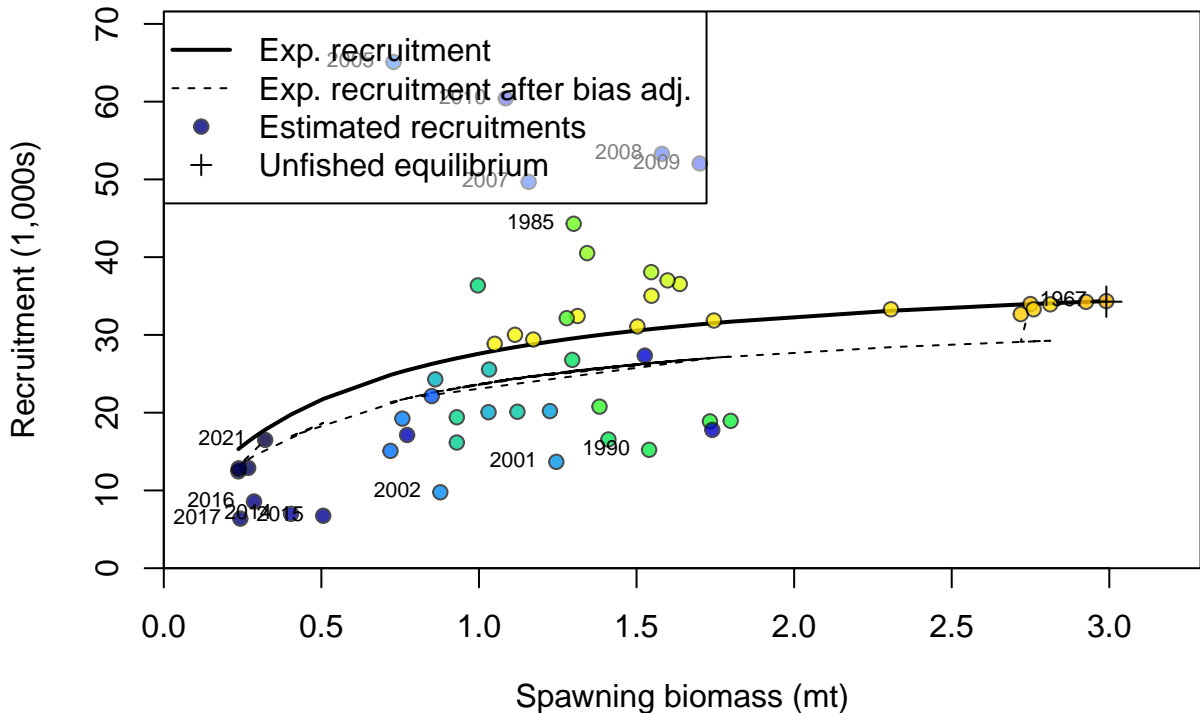
Recruitment deviation variance

Asymptotic standard error estimate

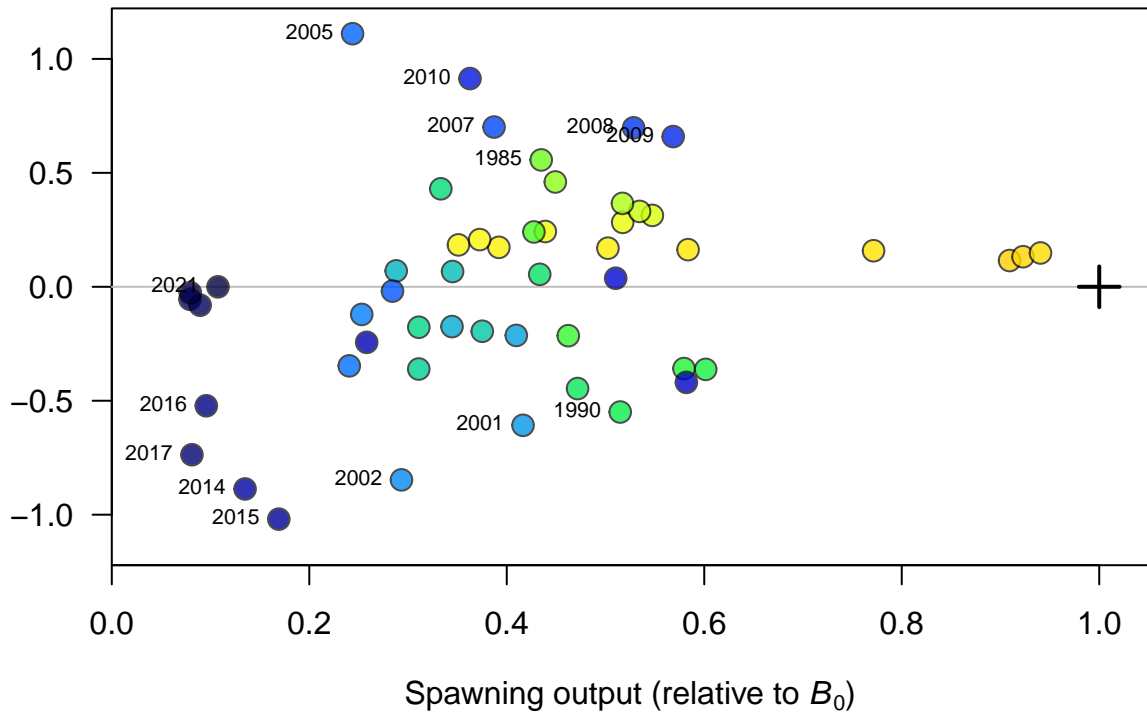


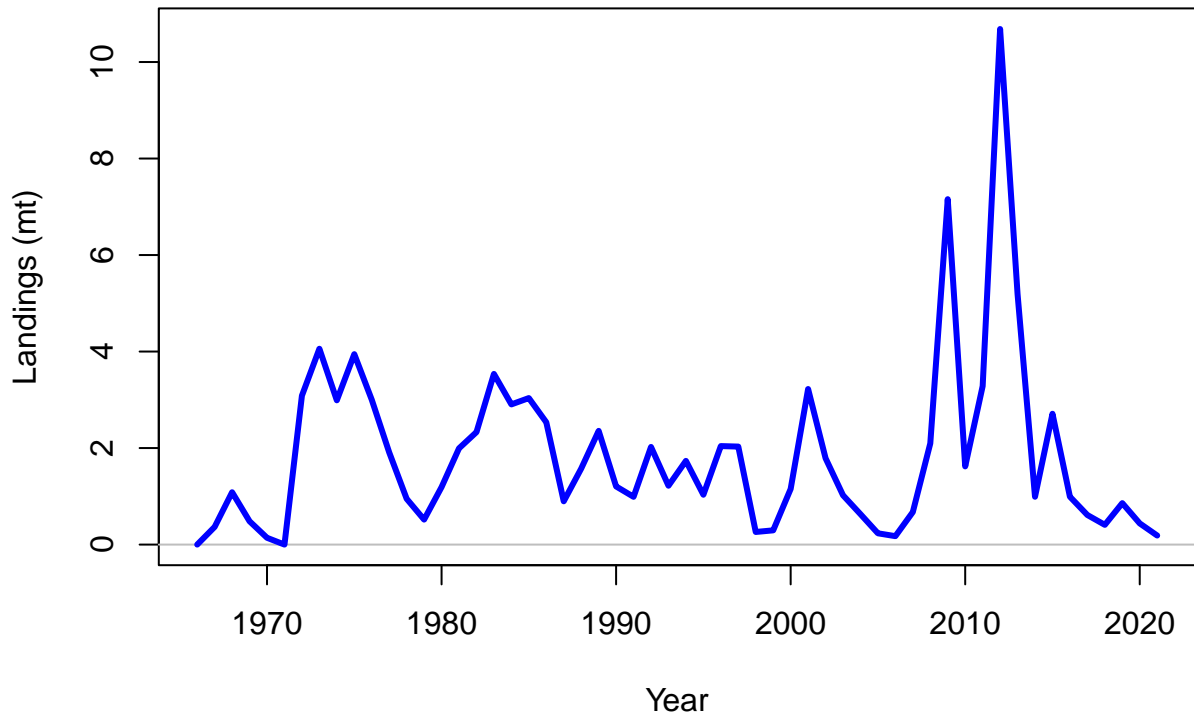


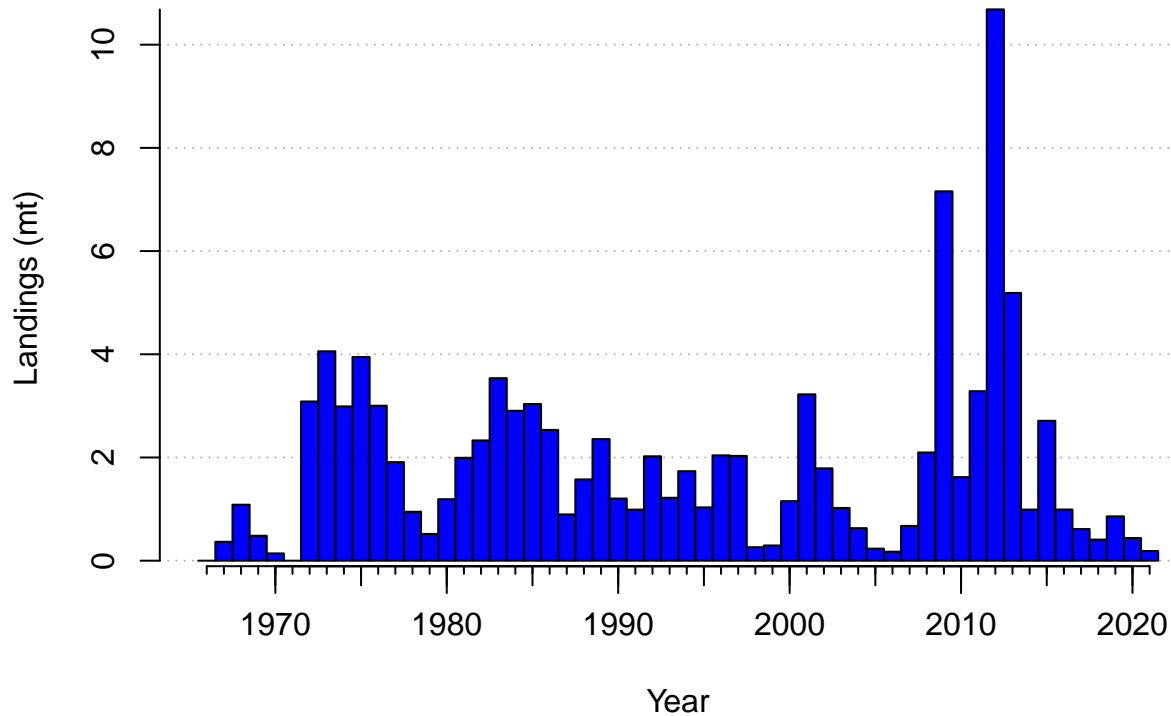




Log recruitment deviation







Observed and expected Landings (mt)

FISHERY
FISHERY obs.

10
8
6
4
2
0

1970

1980

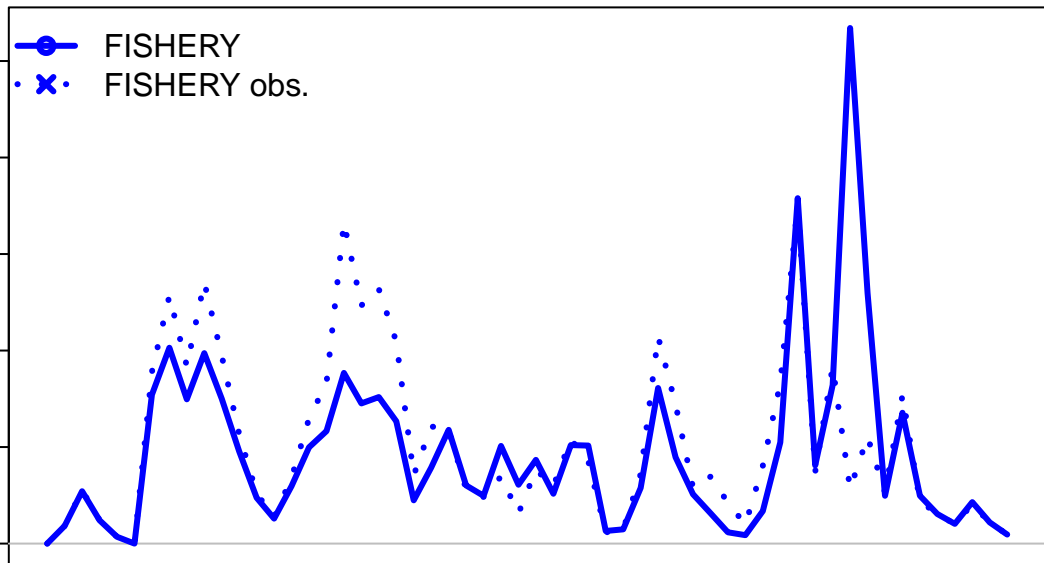
1990

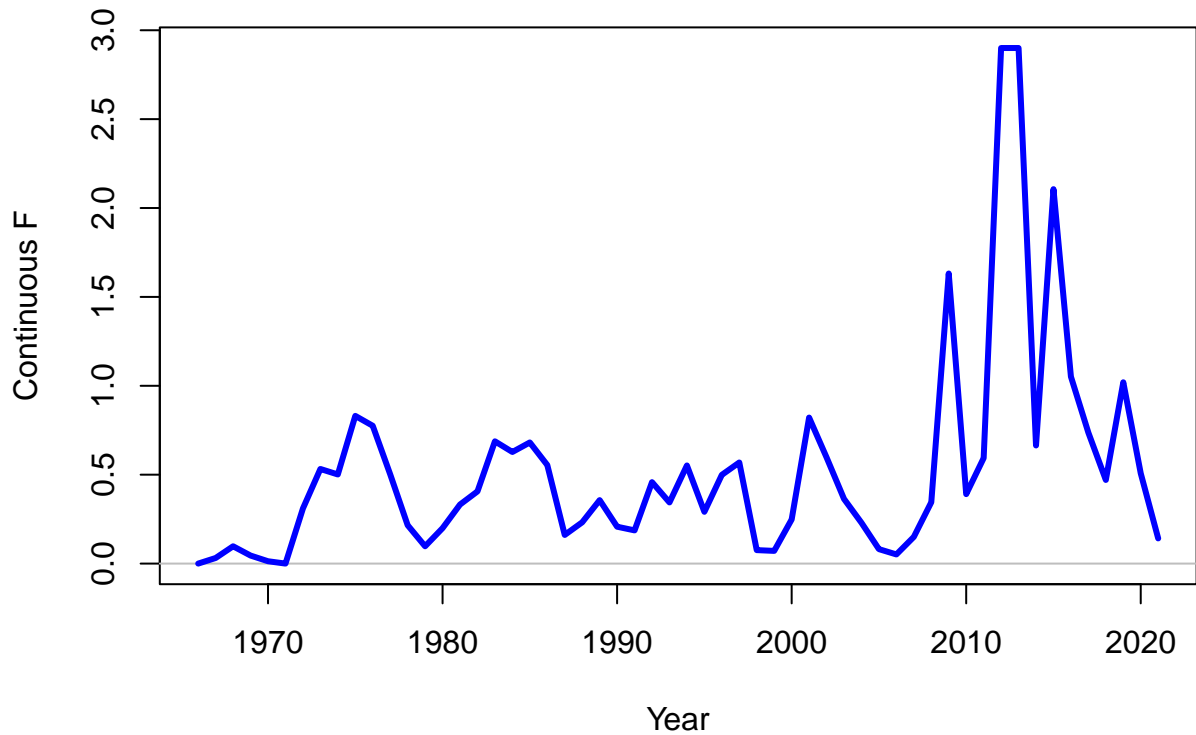
2000

2010

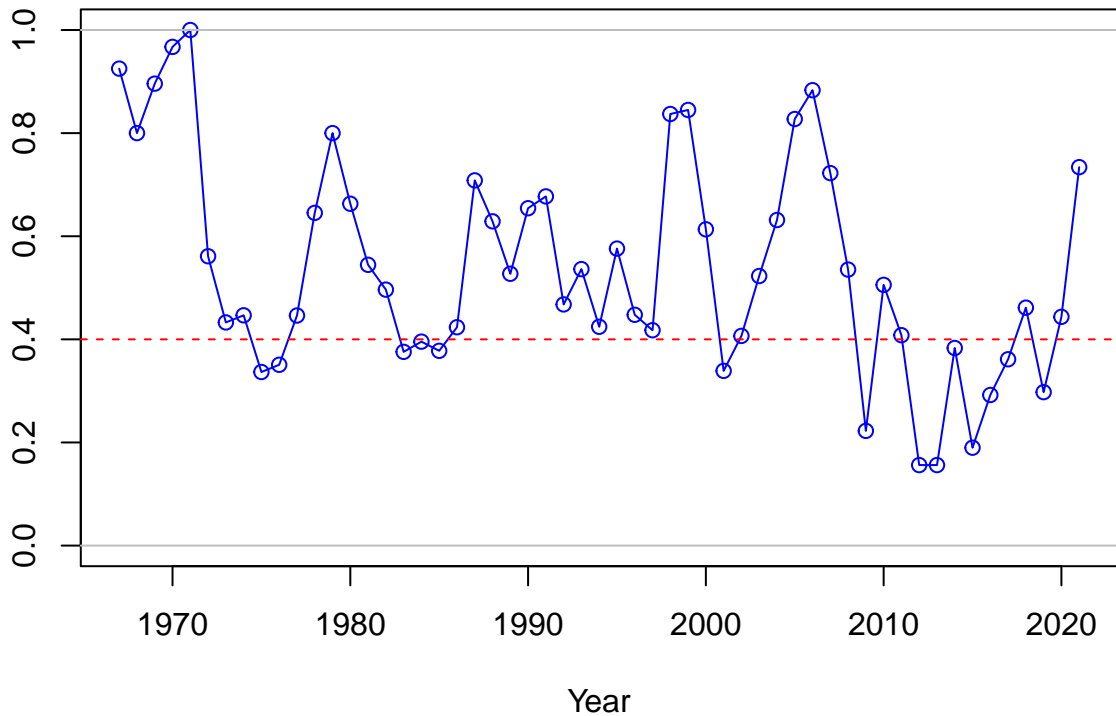
2020

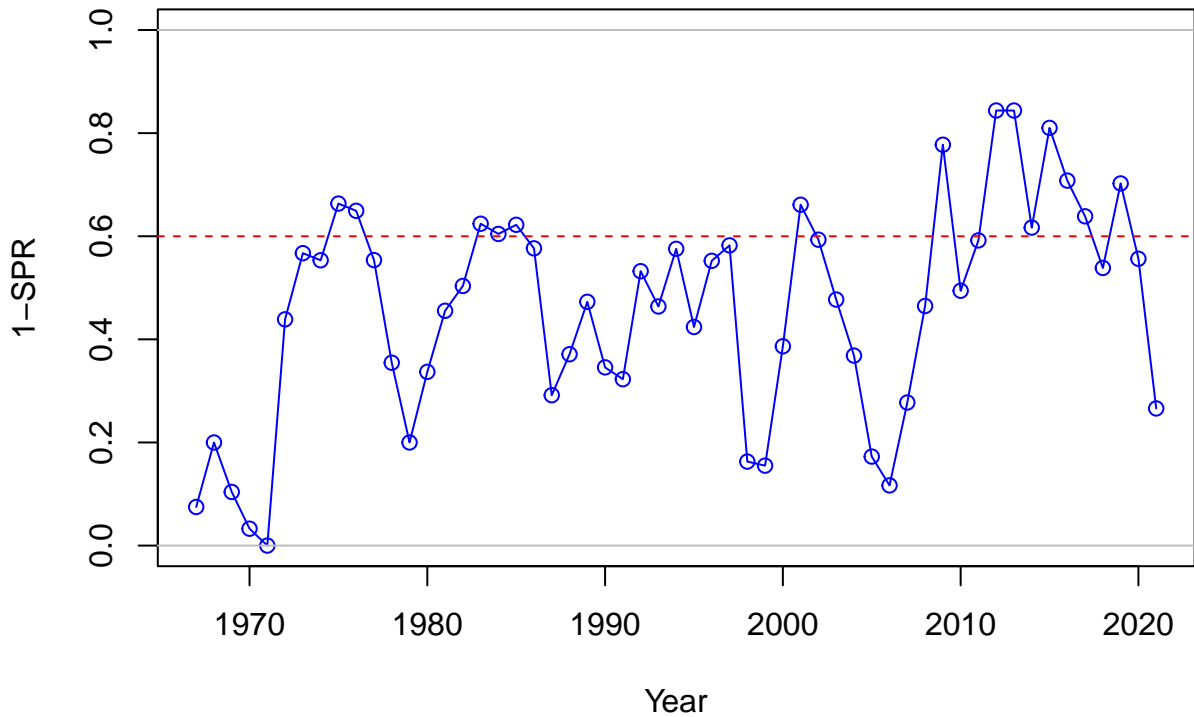
Year



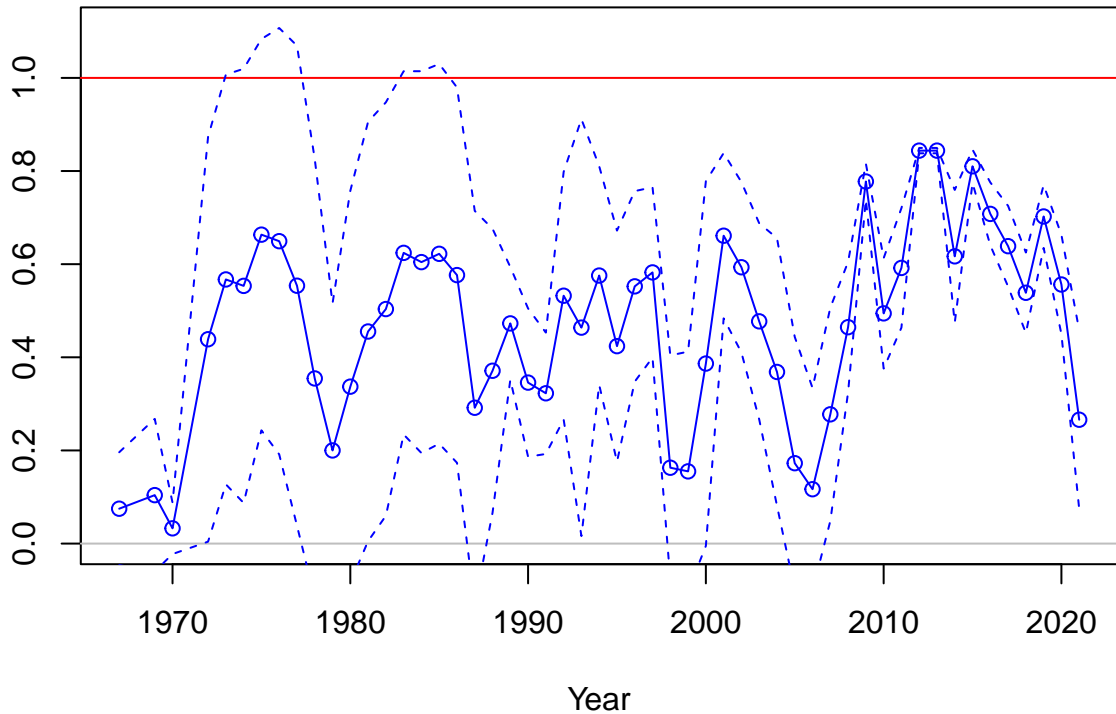


SPR

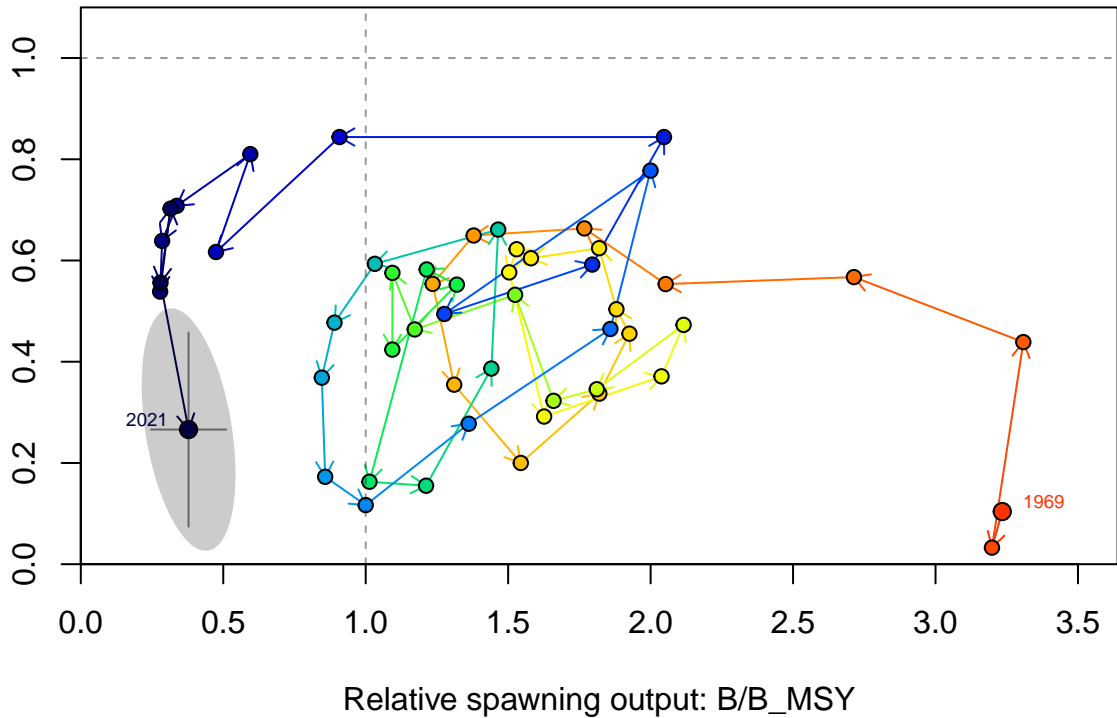




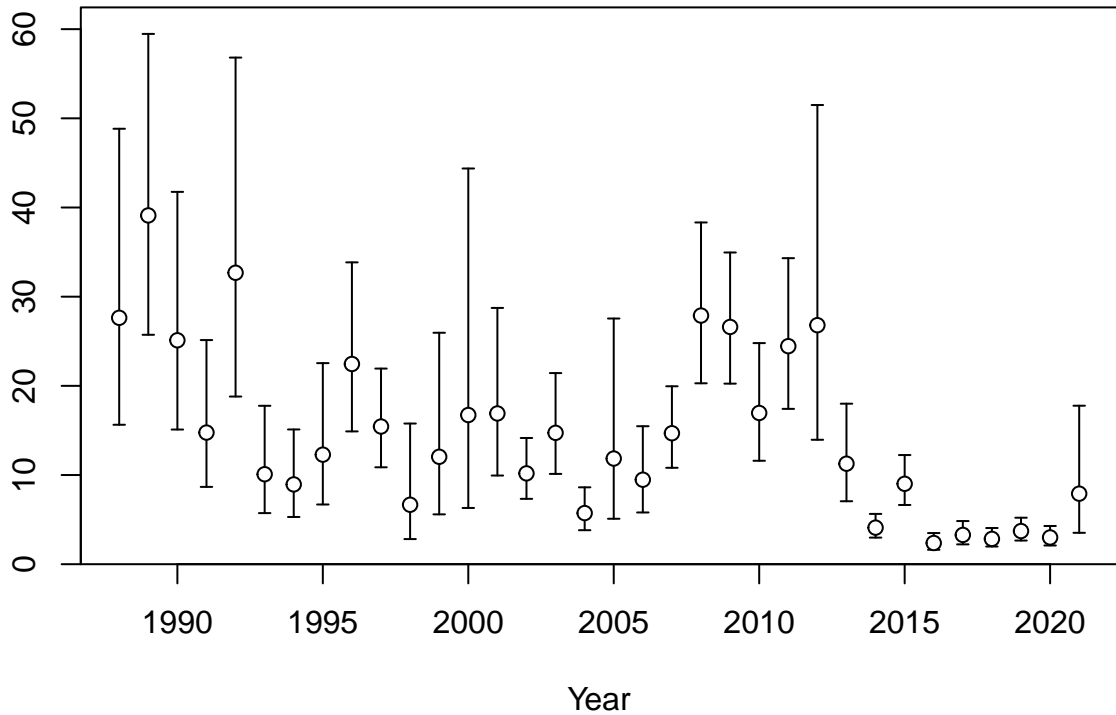
Fishing intensity: 1-SPR



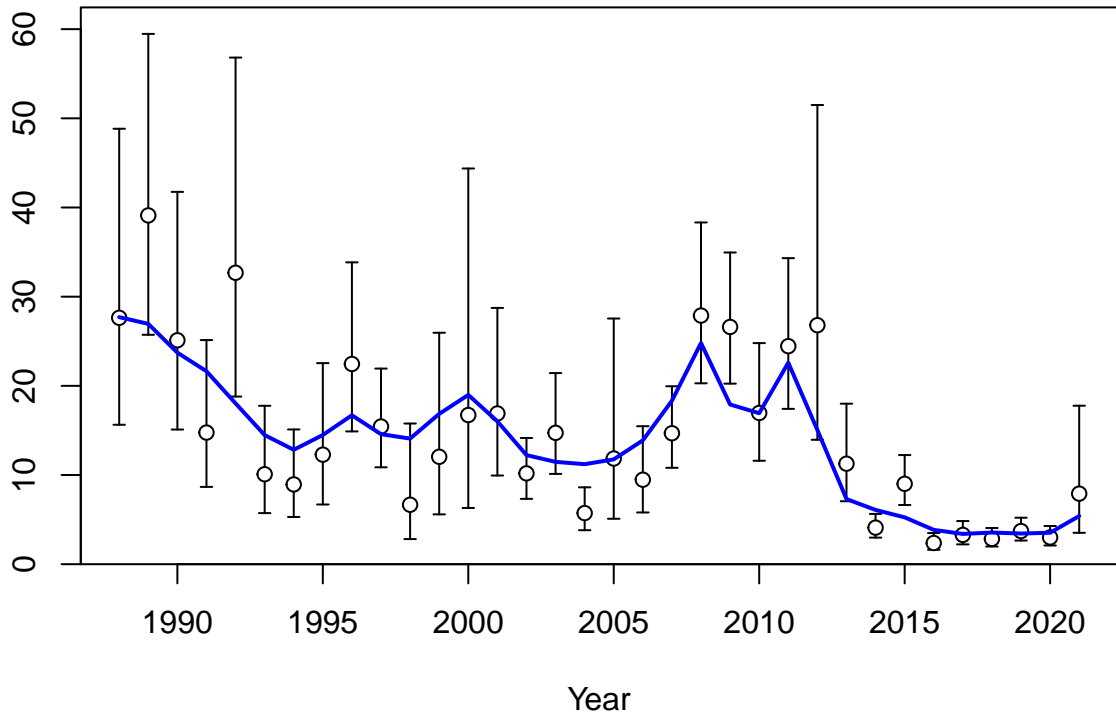
Fishing intensity: 1-SPR

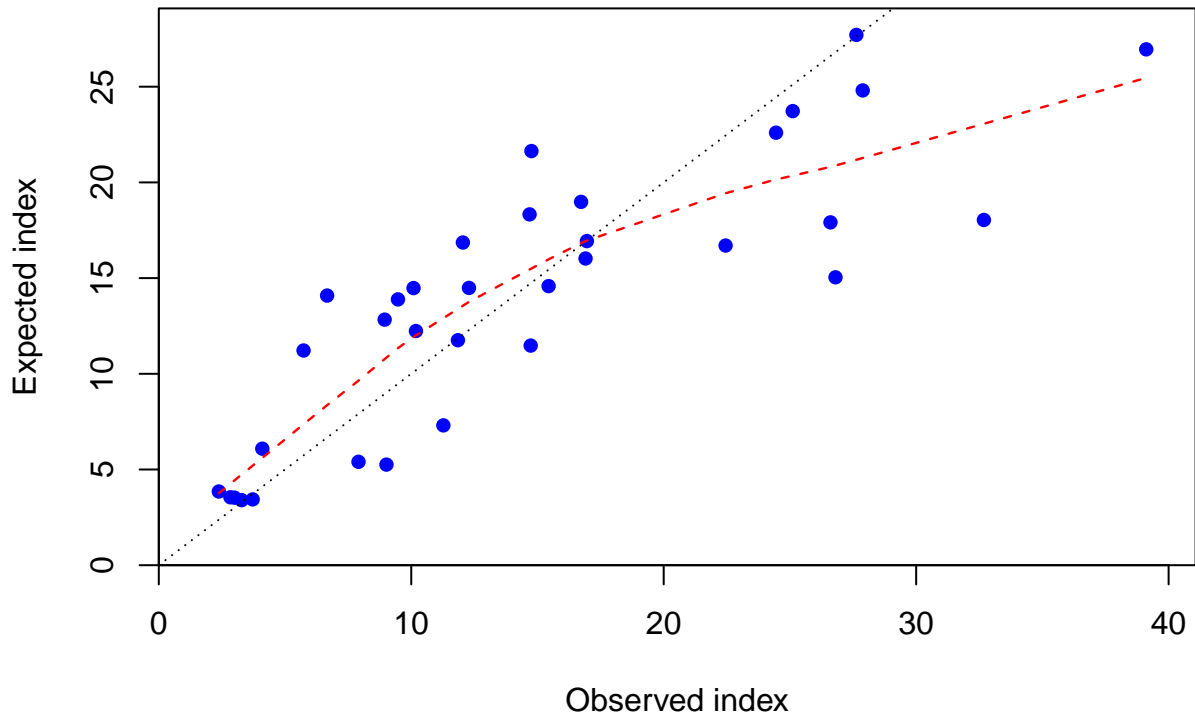


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Index





Log index

4
3
2
1

1990

1995

2000

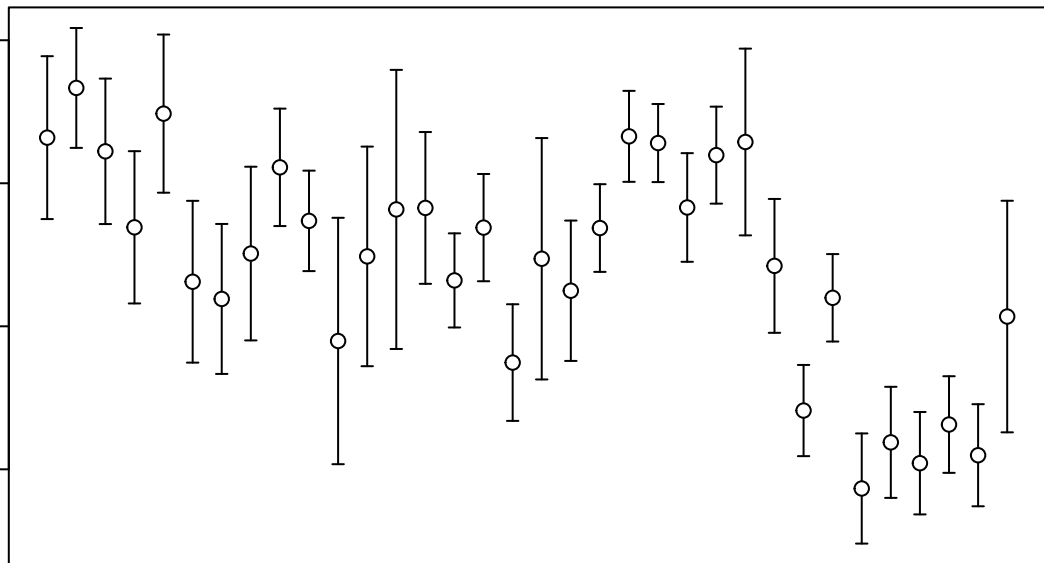
2005

2010

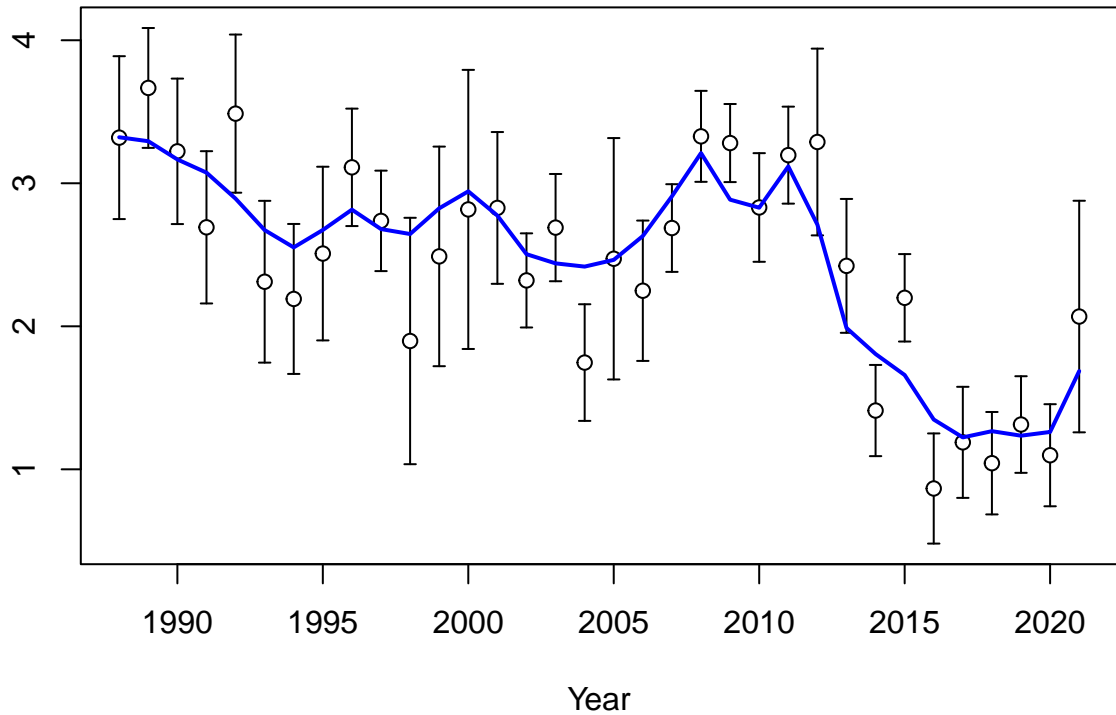
2015

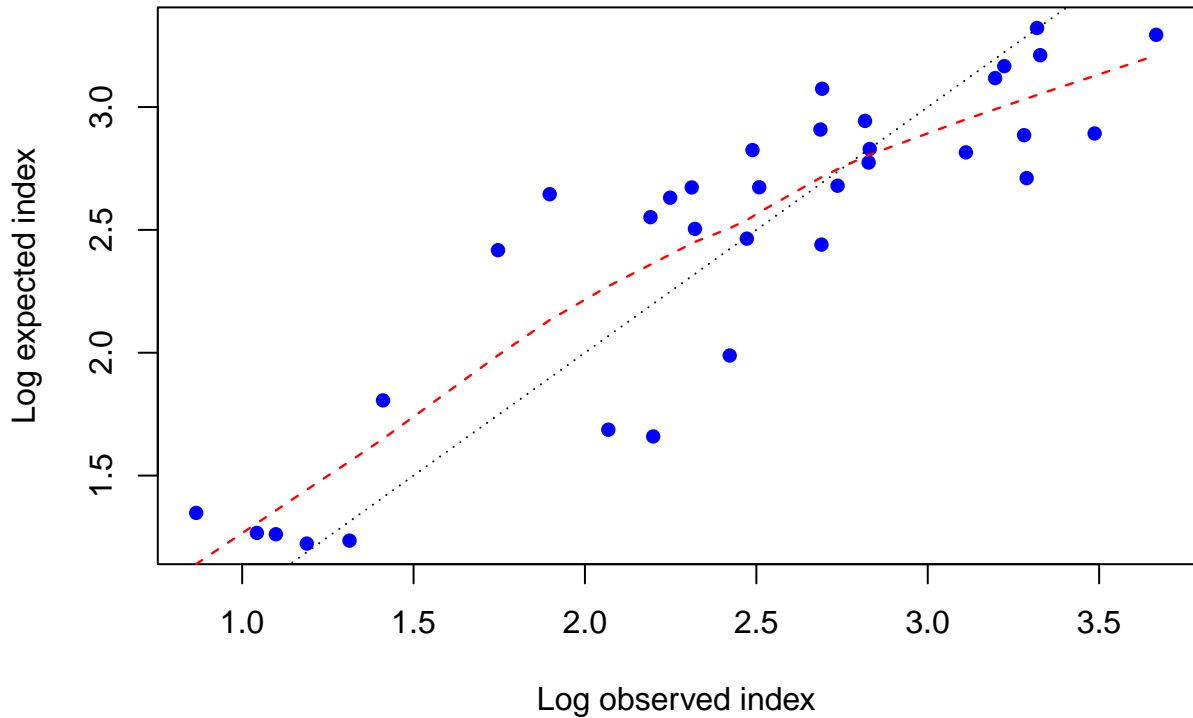
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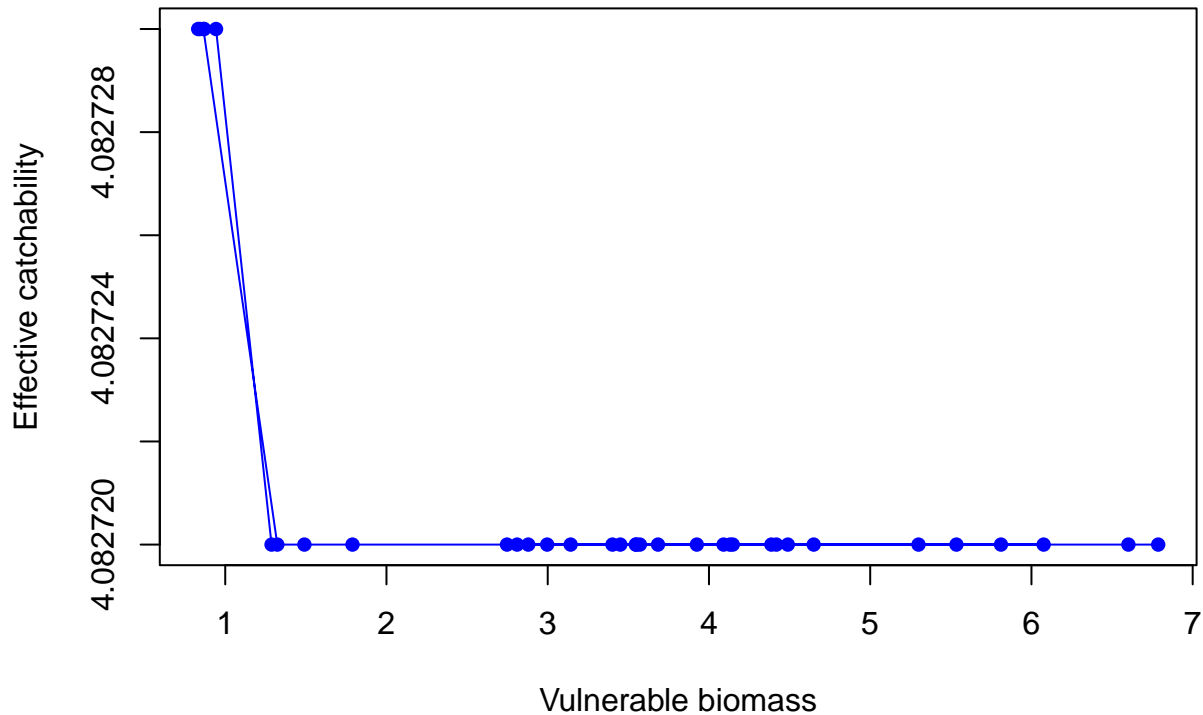
Year

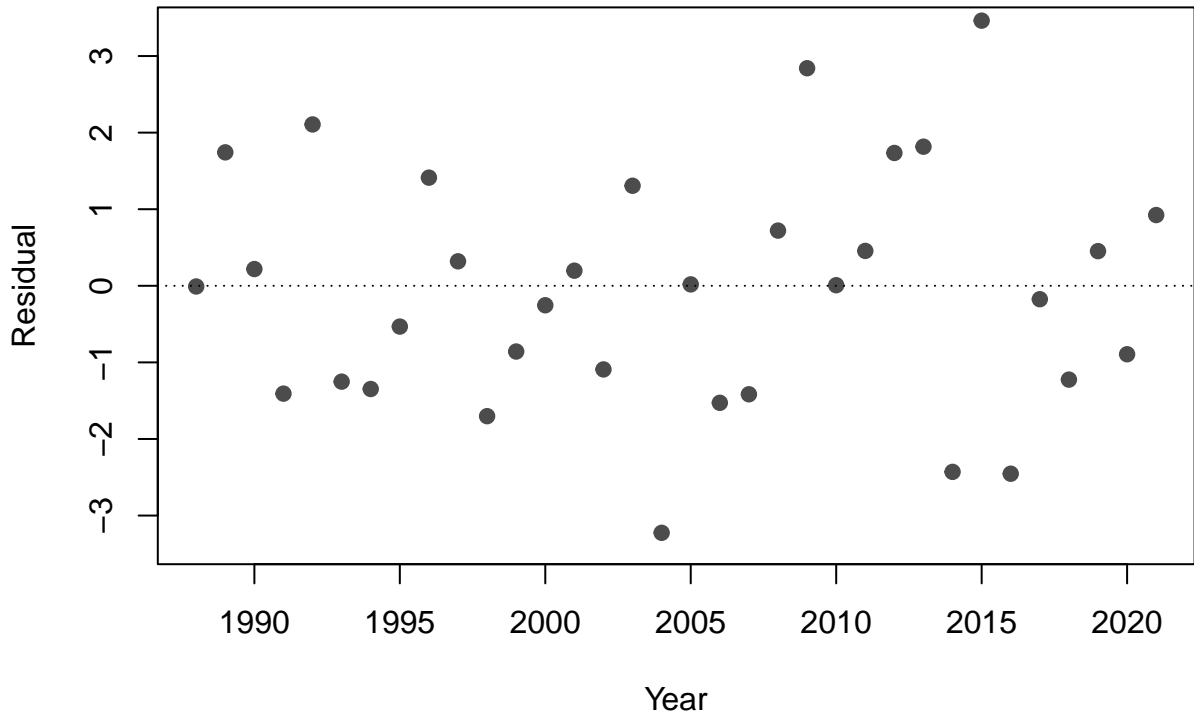


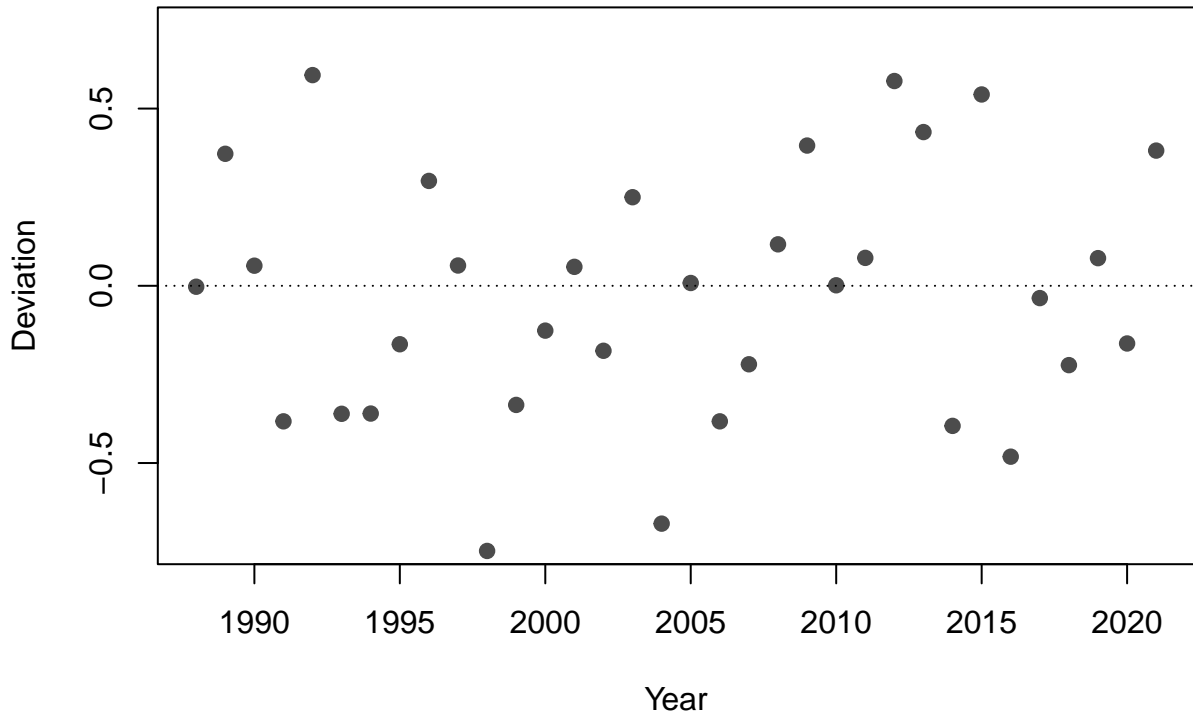
Log index

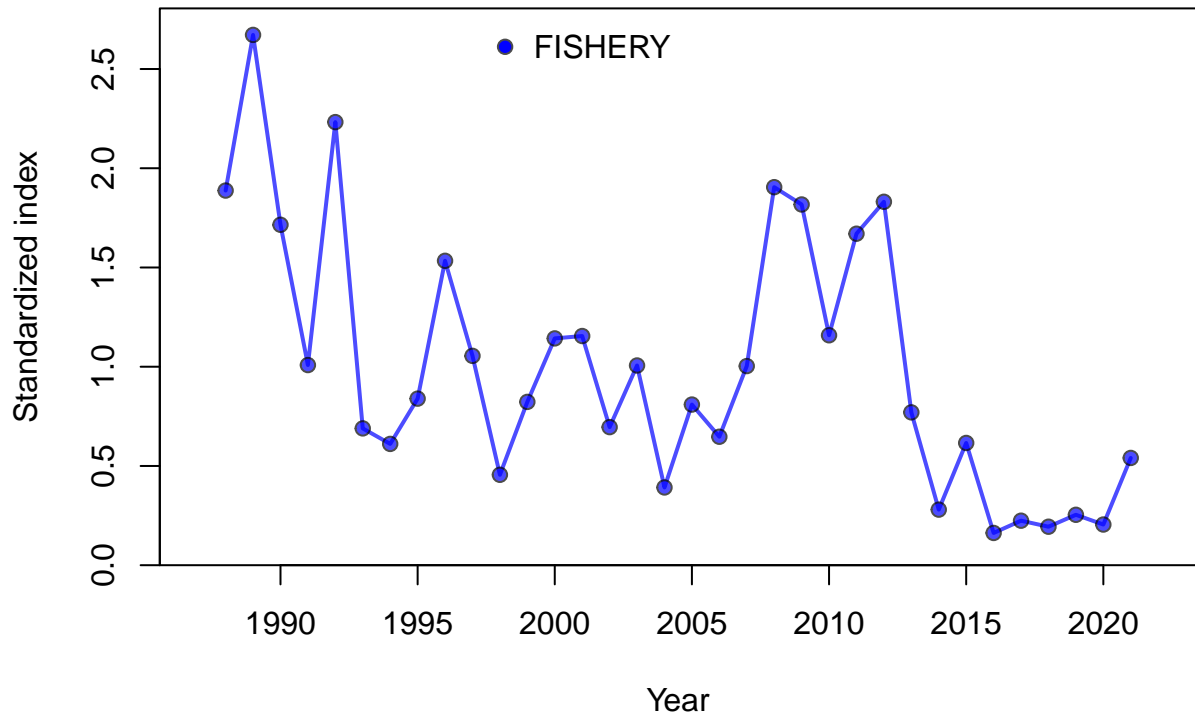




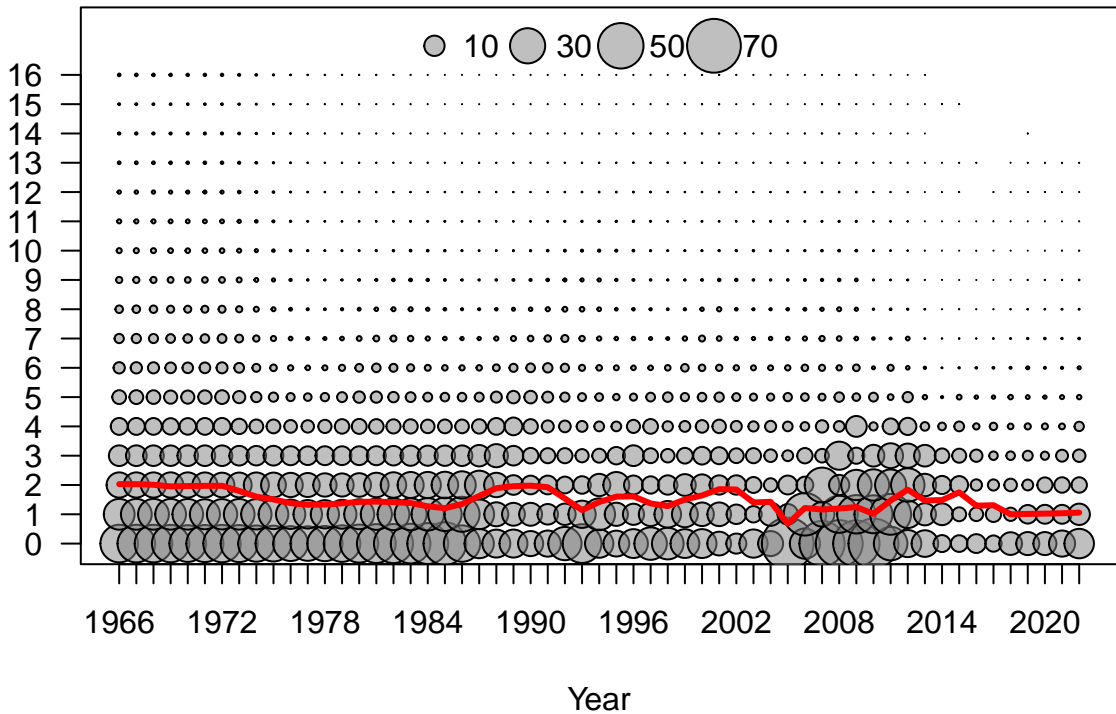




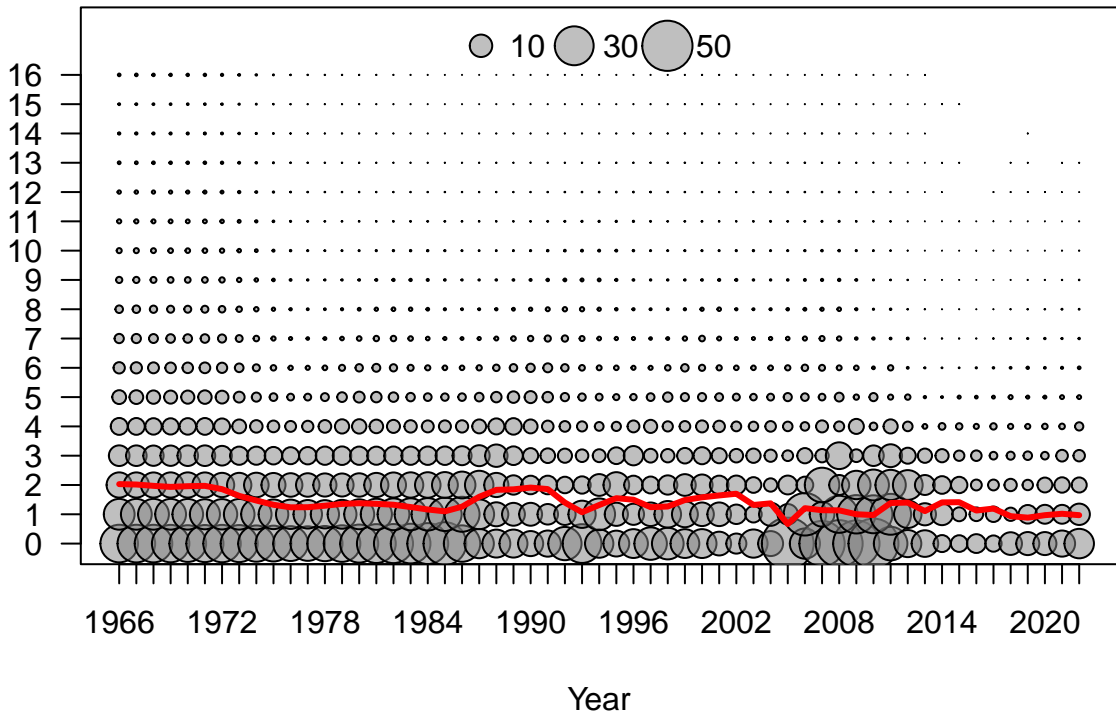


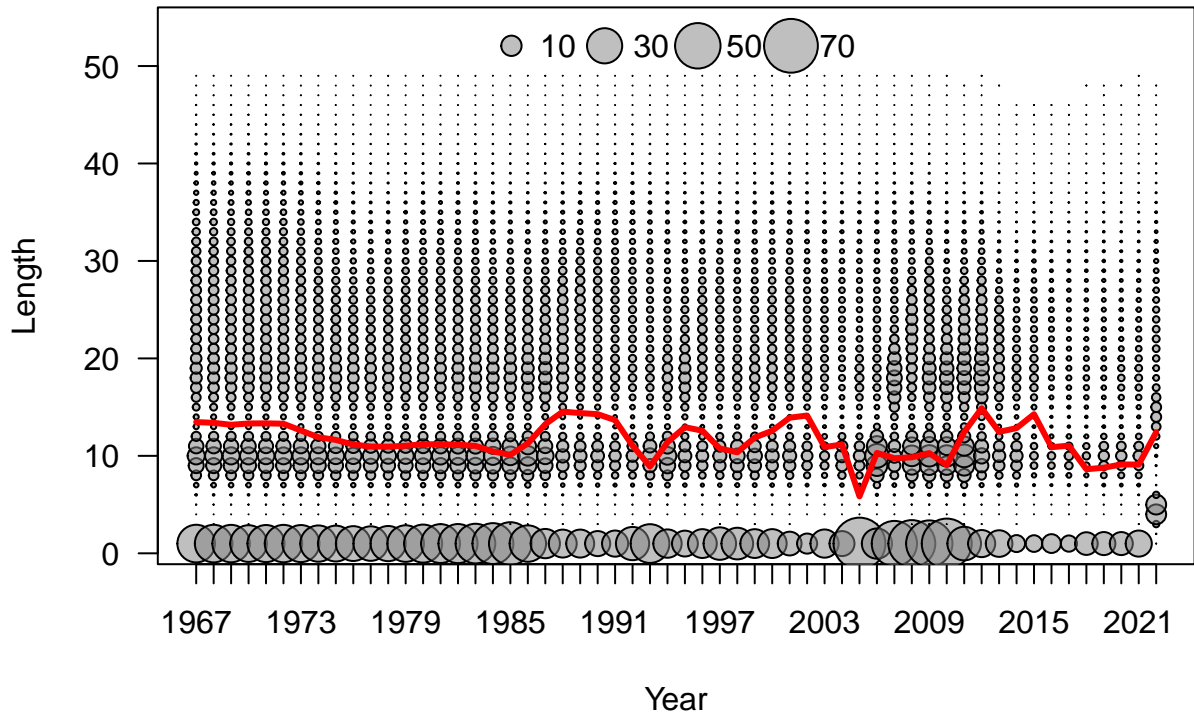


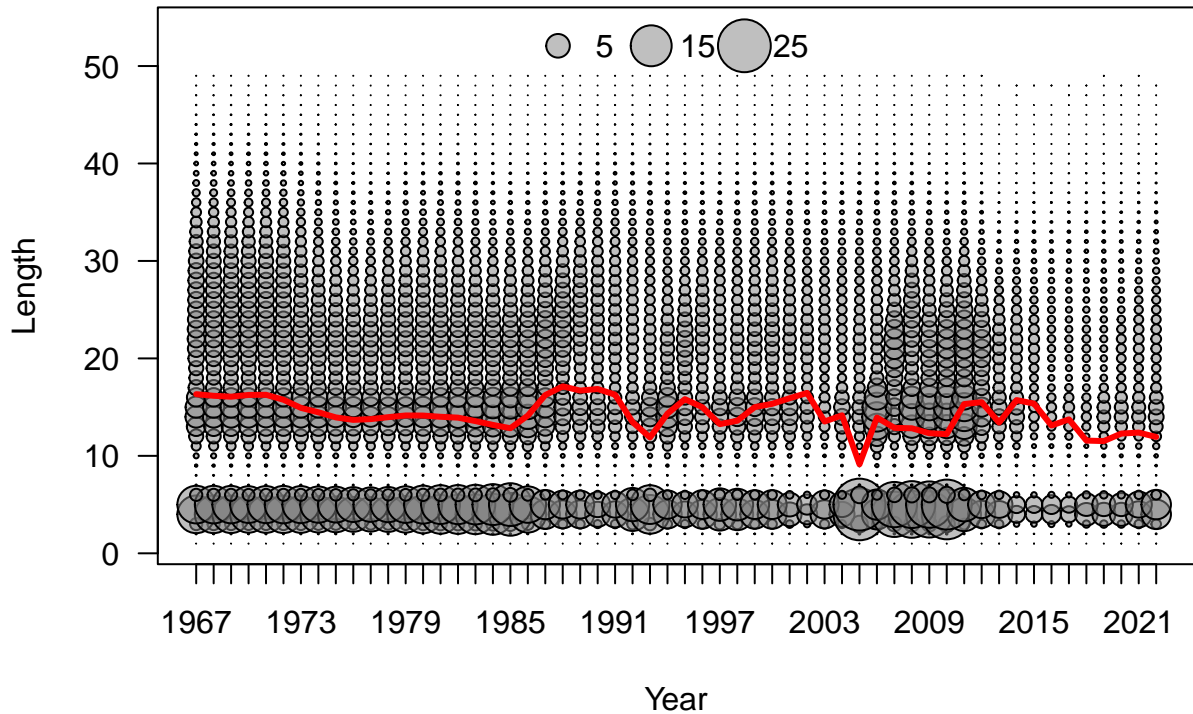
Age

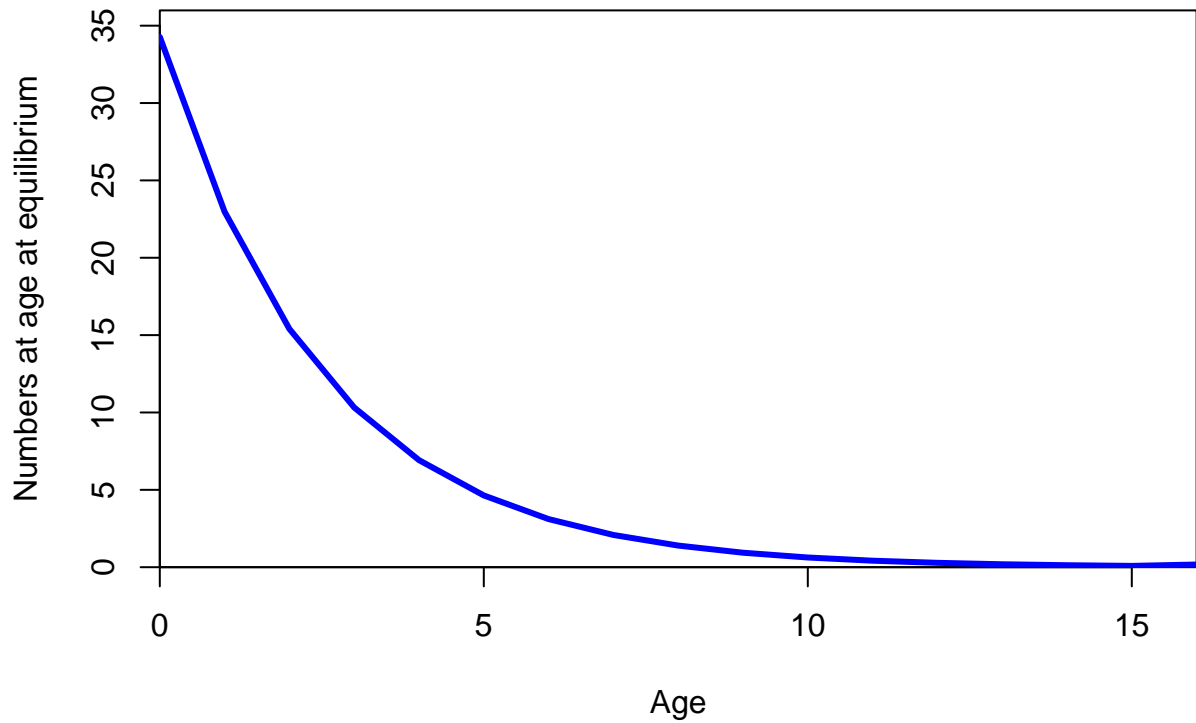


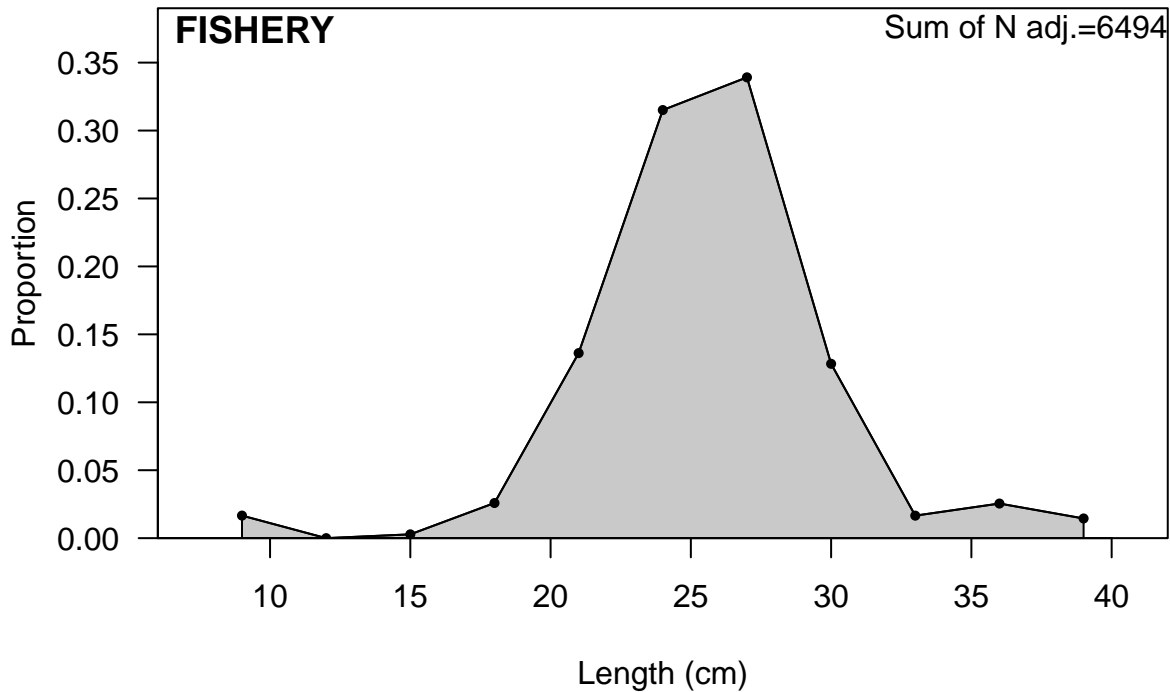
Age

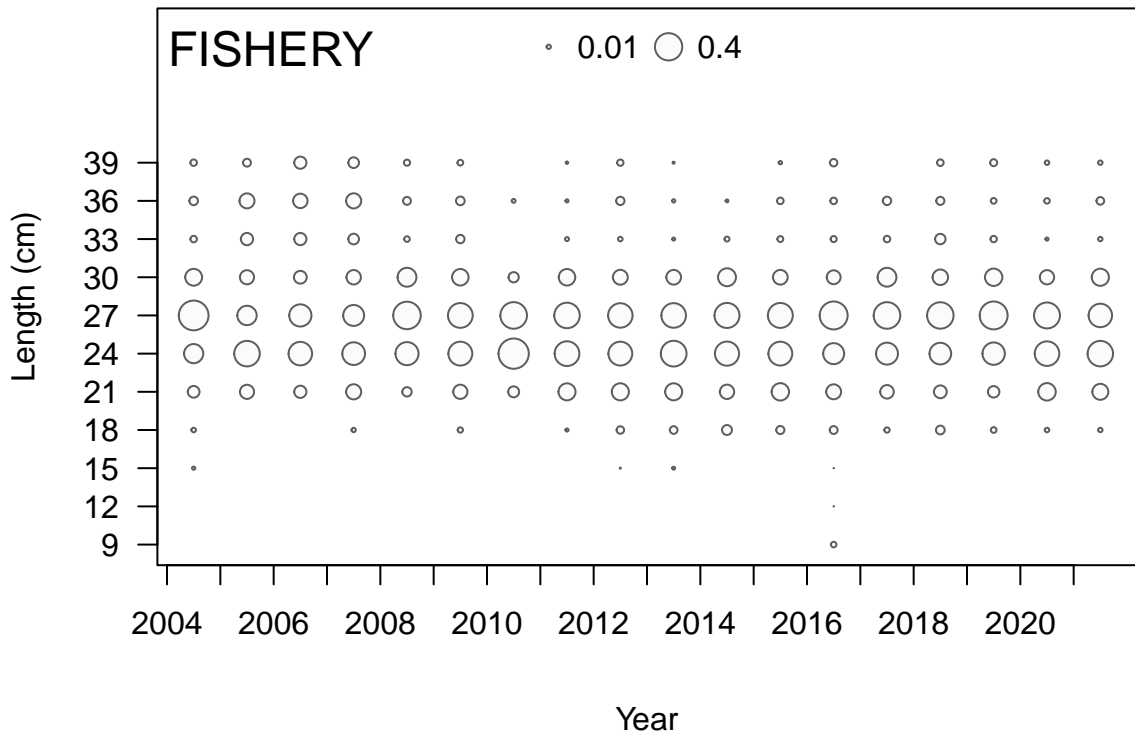




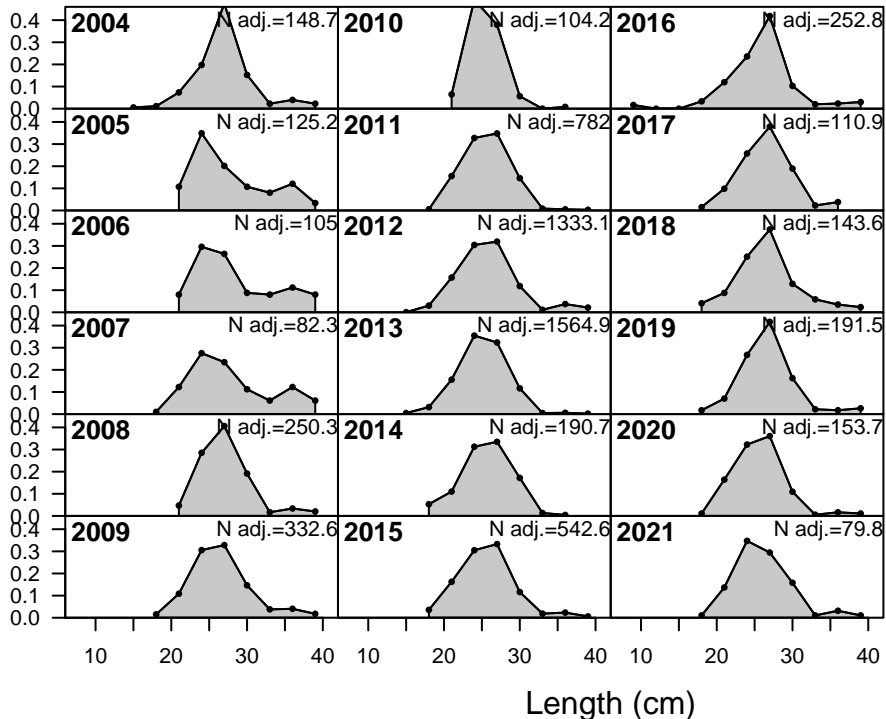


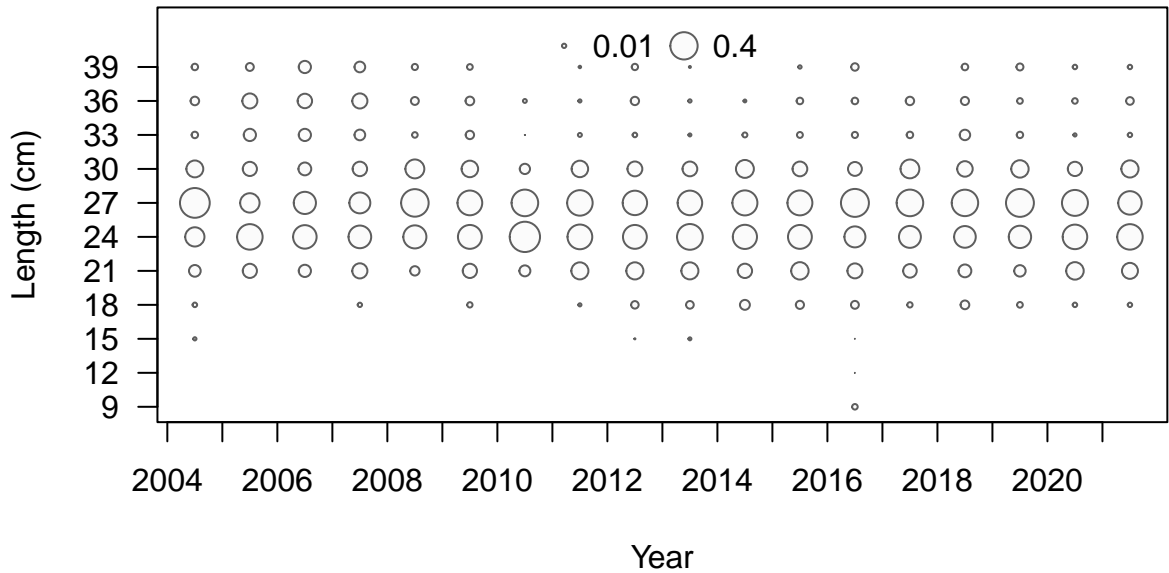




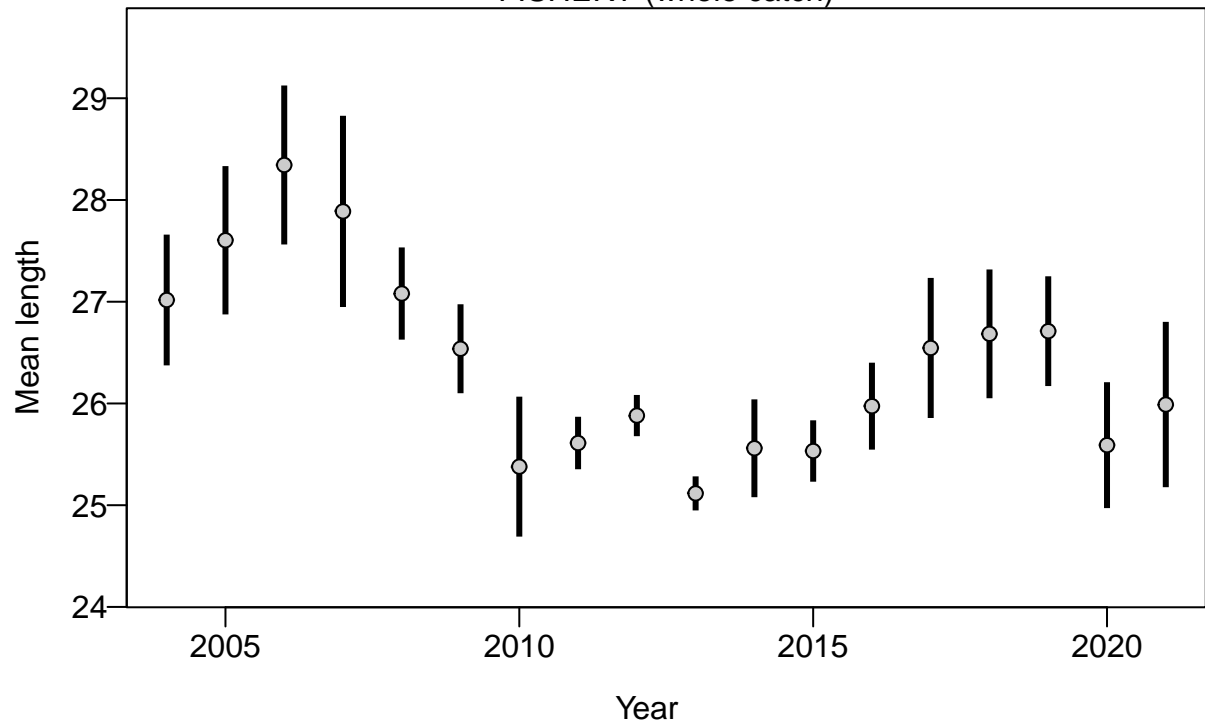


Proportion



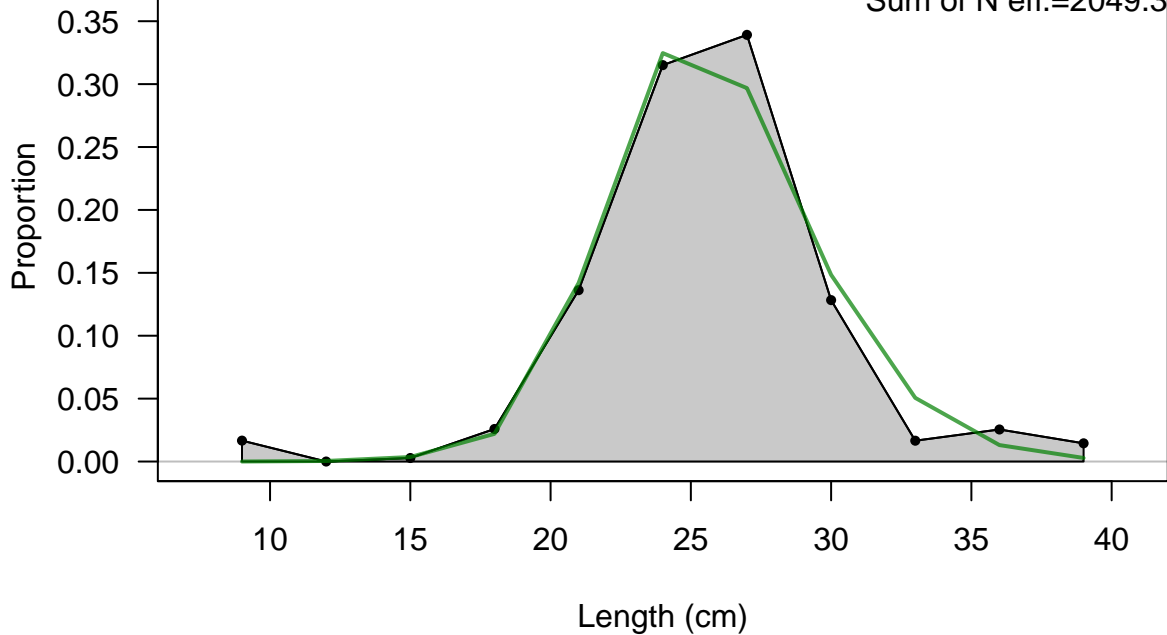


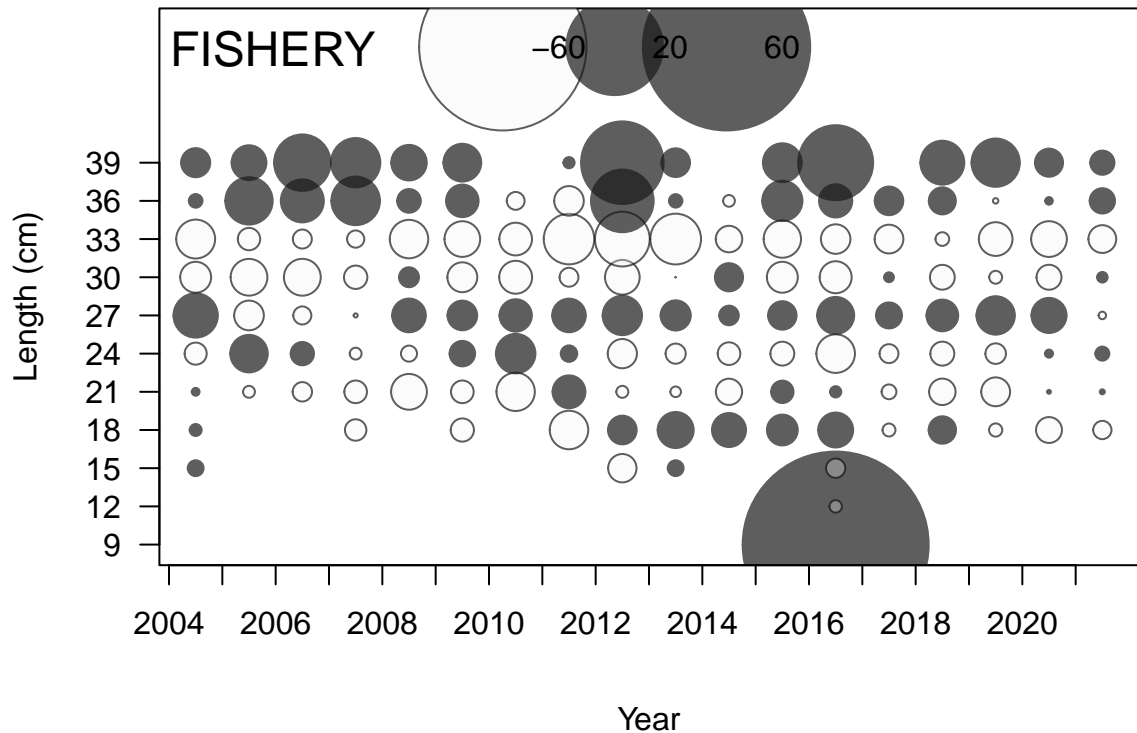
FISHERY (whole catch)

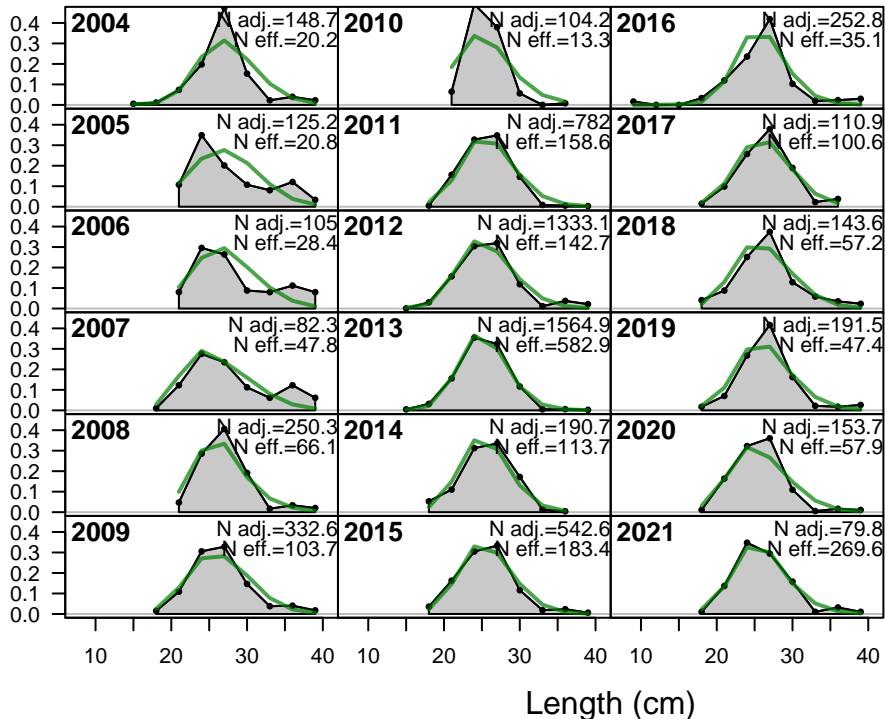


FISHERY

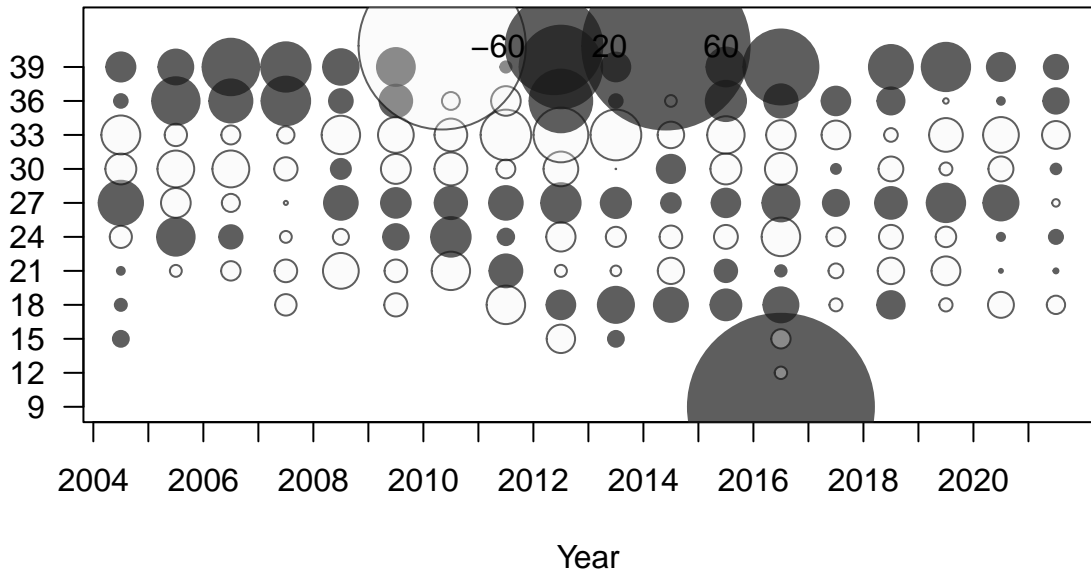
Sum of N adj.=6494
Sum of N eff.=2049.3



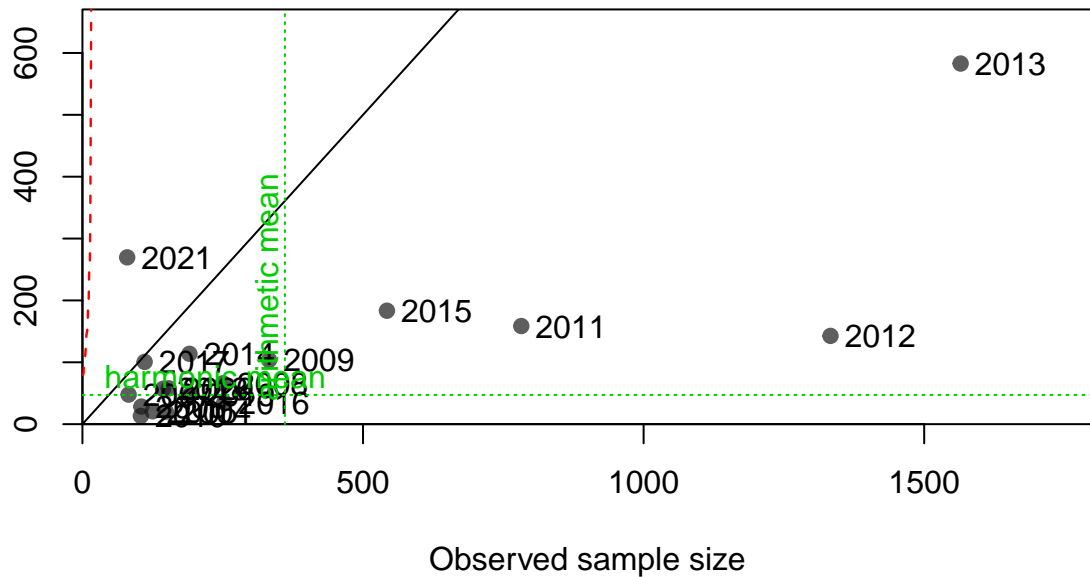




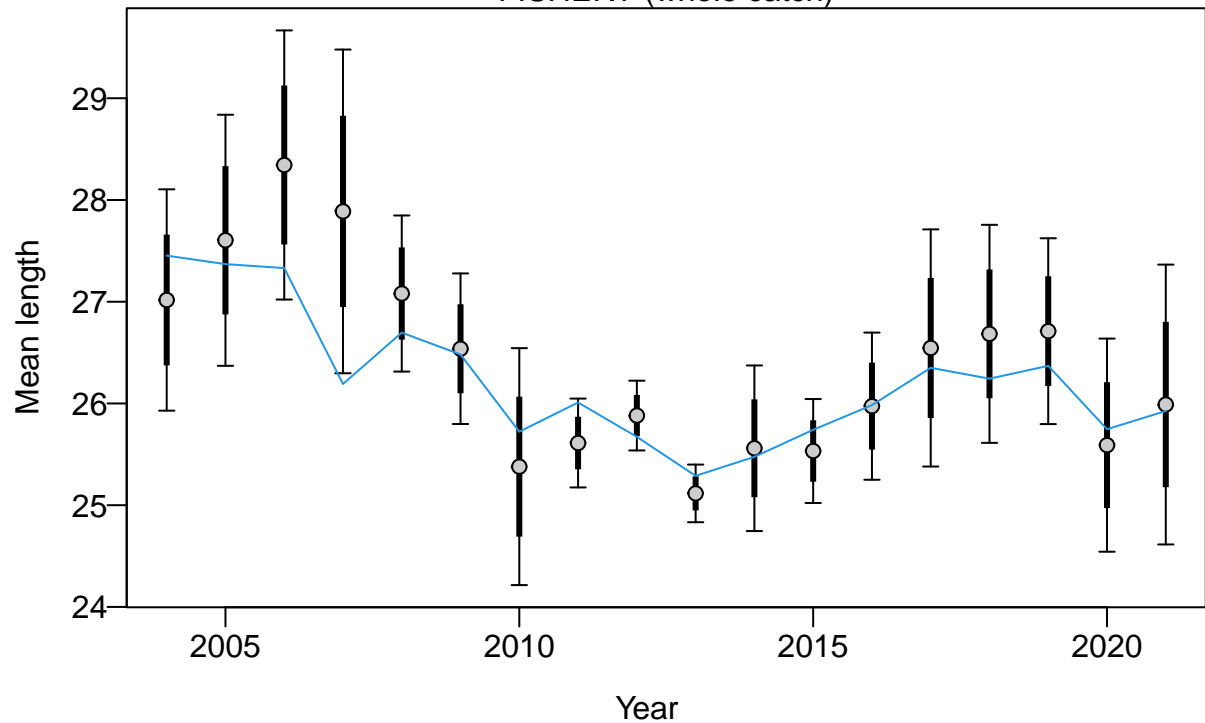
Length (cm)

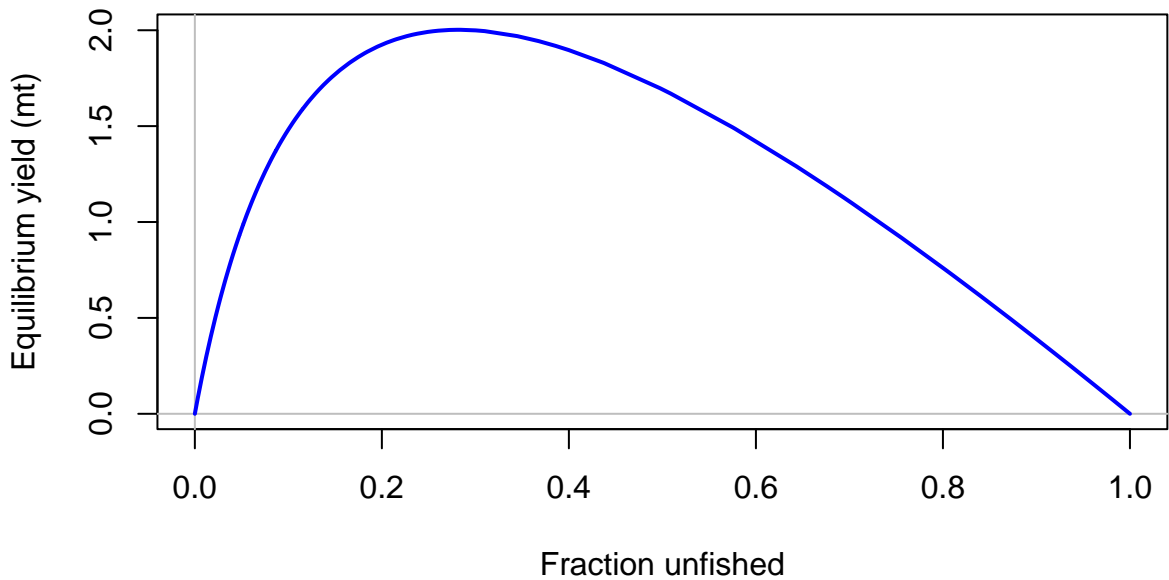


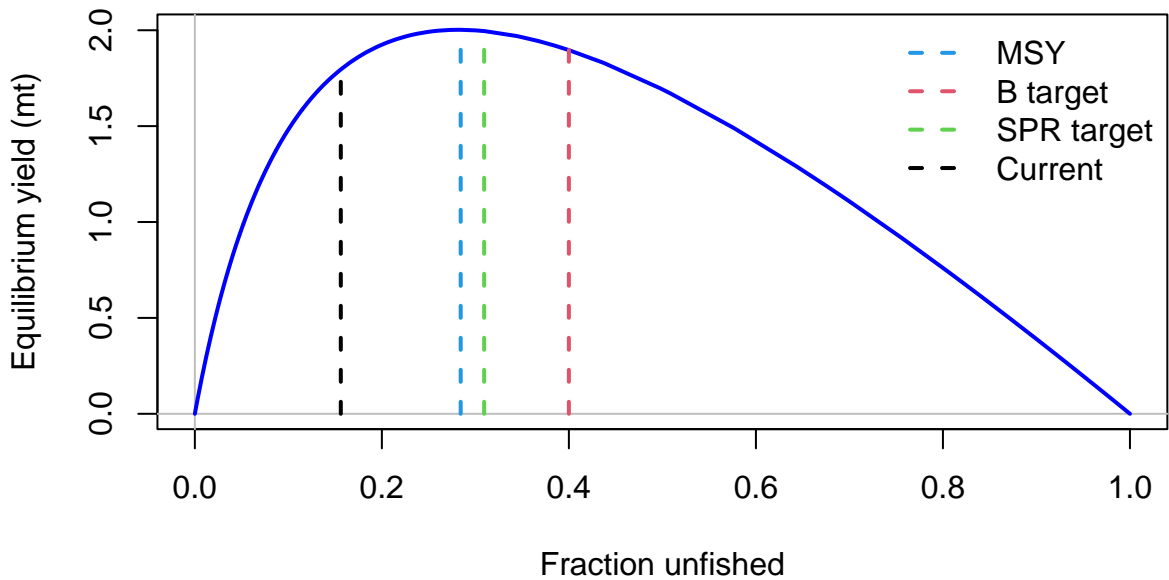
Effective sample size



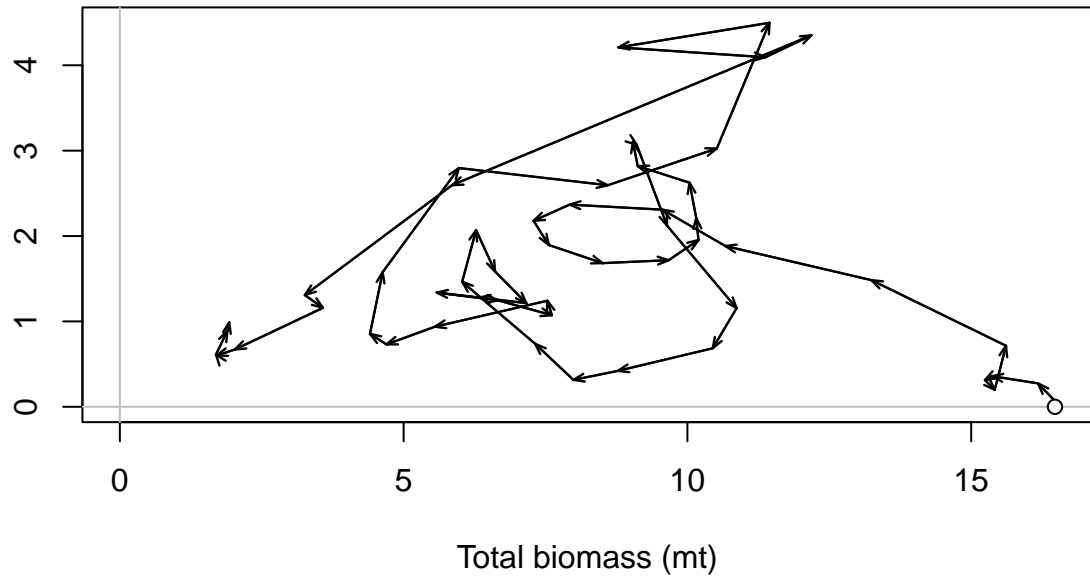
FISHERY (whole catch)

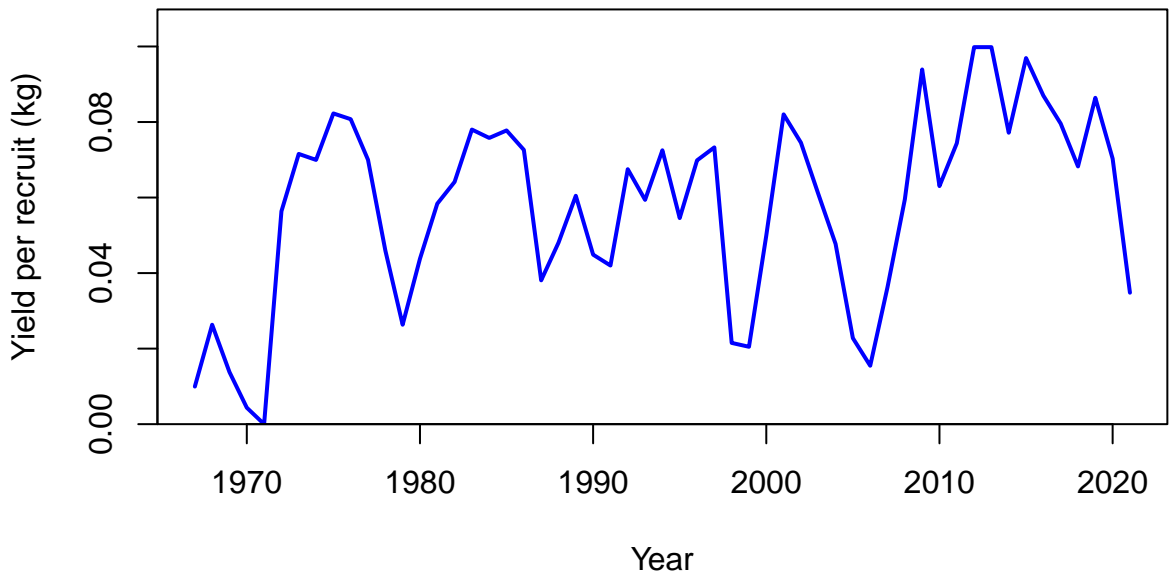


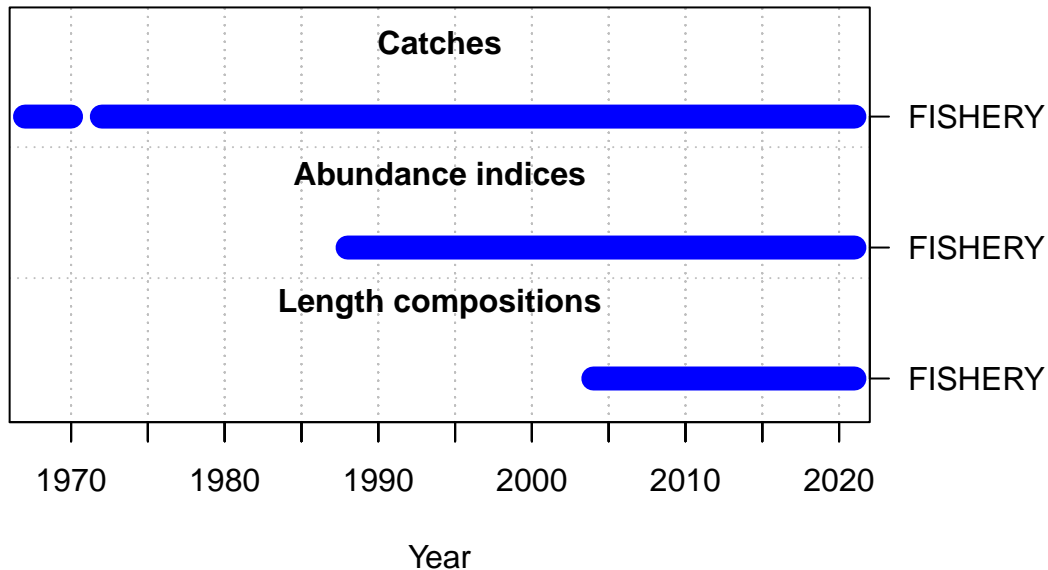


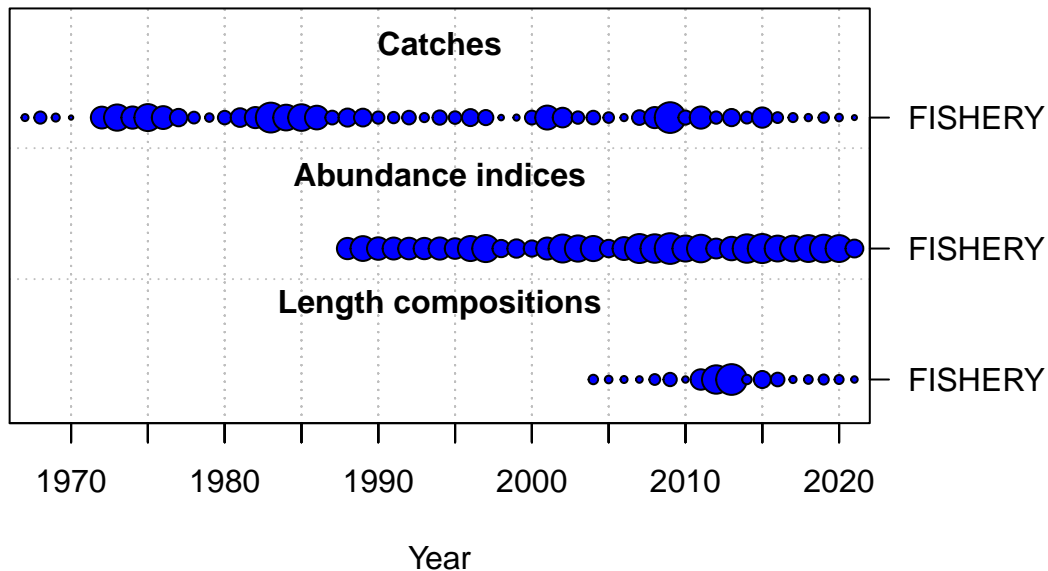


Surplus production (mt)









Density

