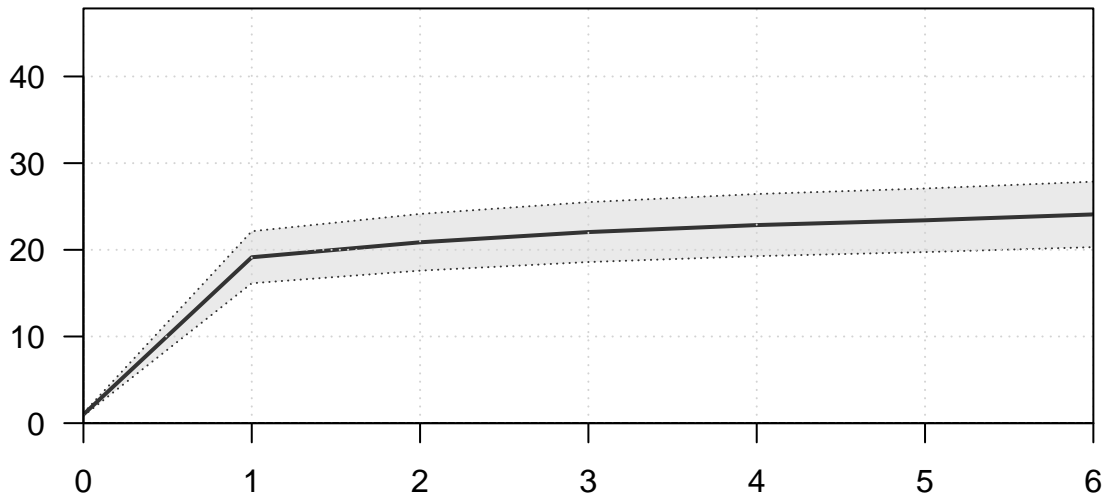
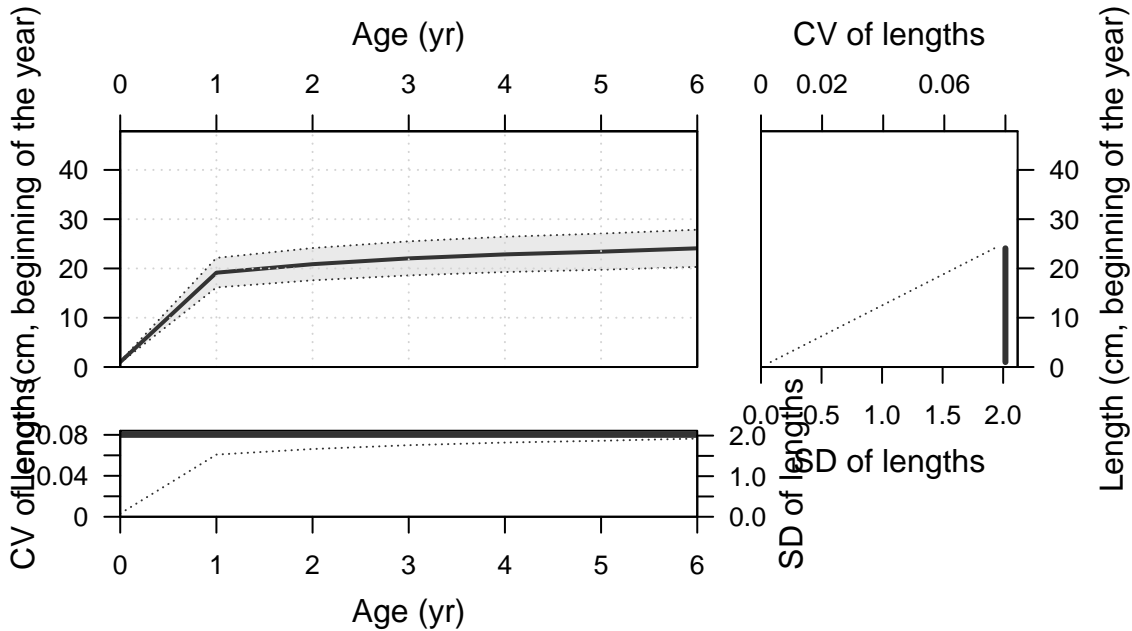


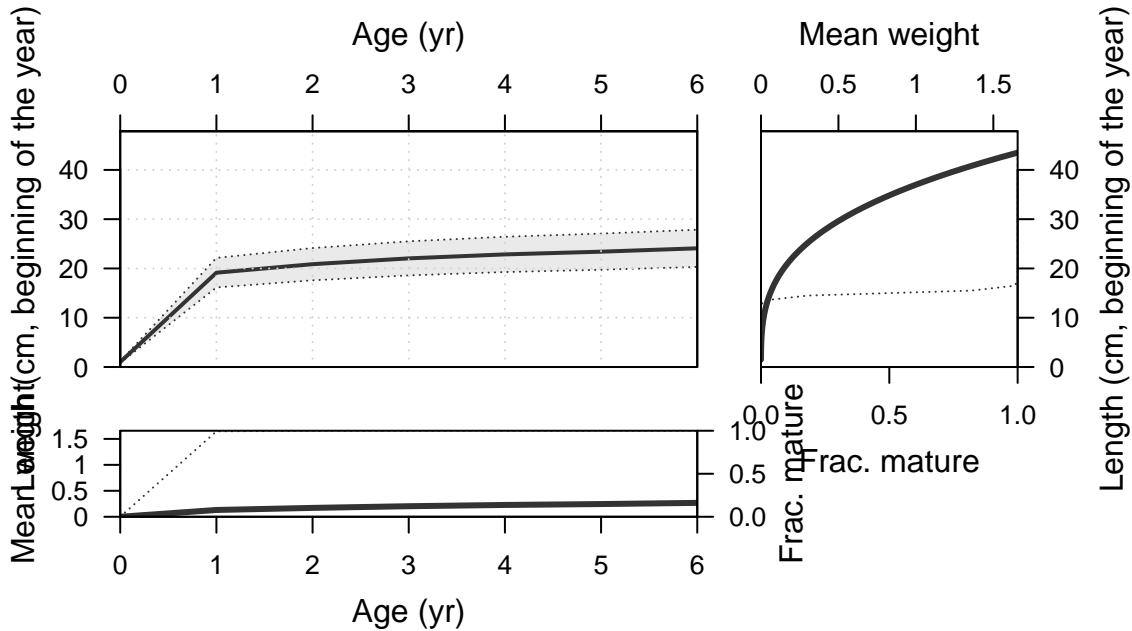
Plots created using the 'r4ss' package in R
Stock Synthesis version: 3.30.19.0
StartTime: Sat Jul 23 09:20:38 2022
Data_File: data.ss
Control_File: control.ss

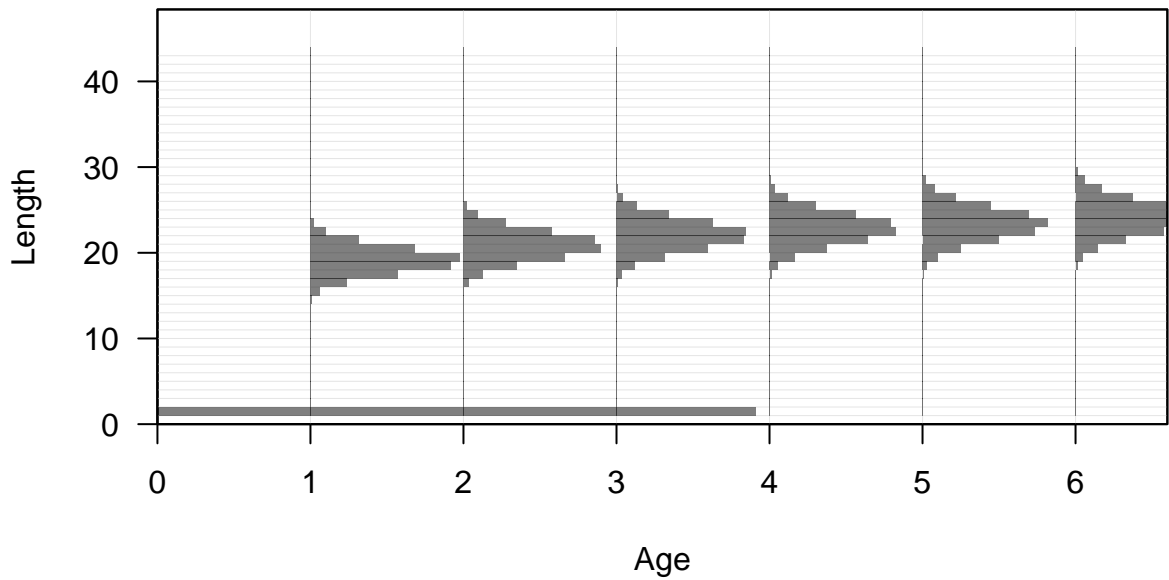
Length (cm, beginning of the year)

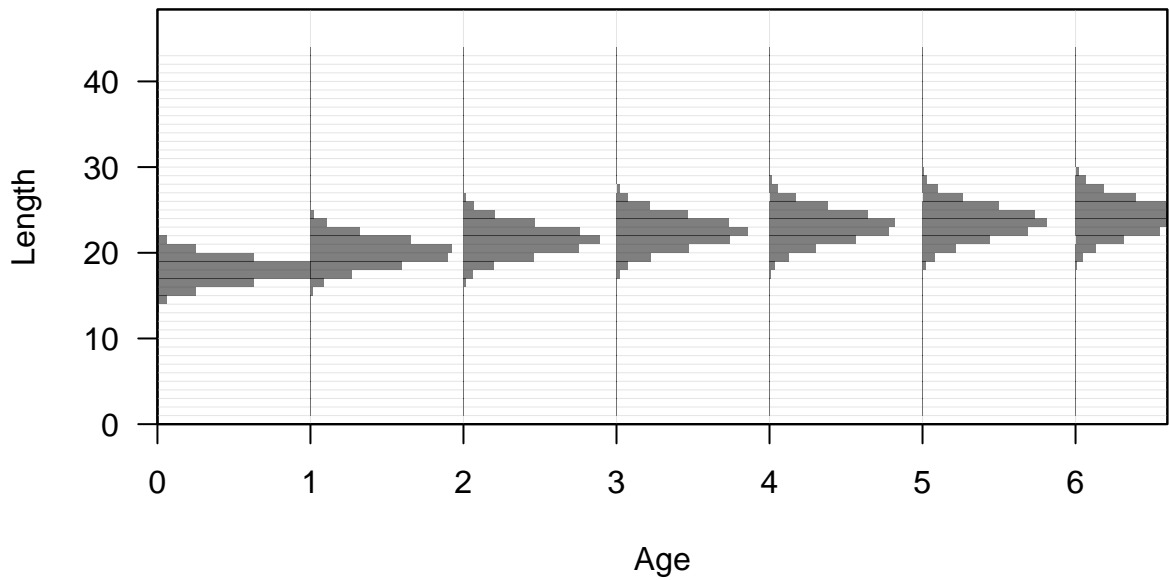


Age (yr)











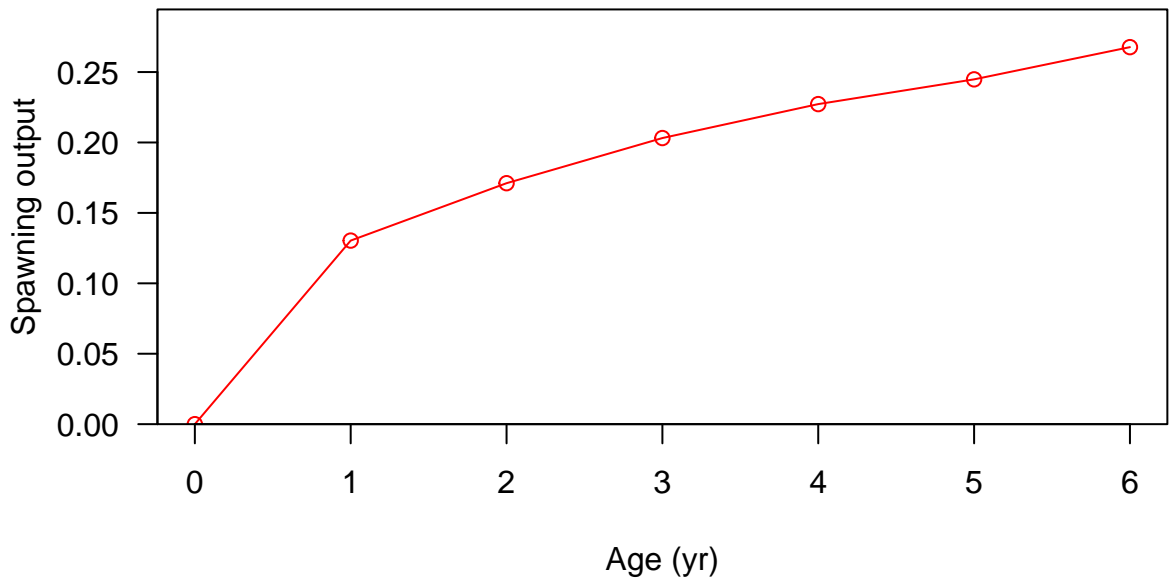




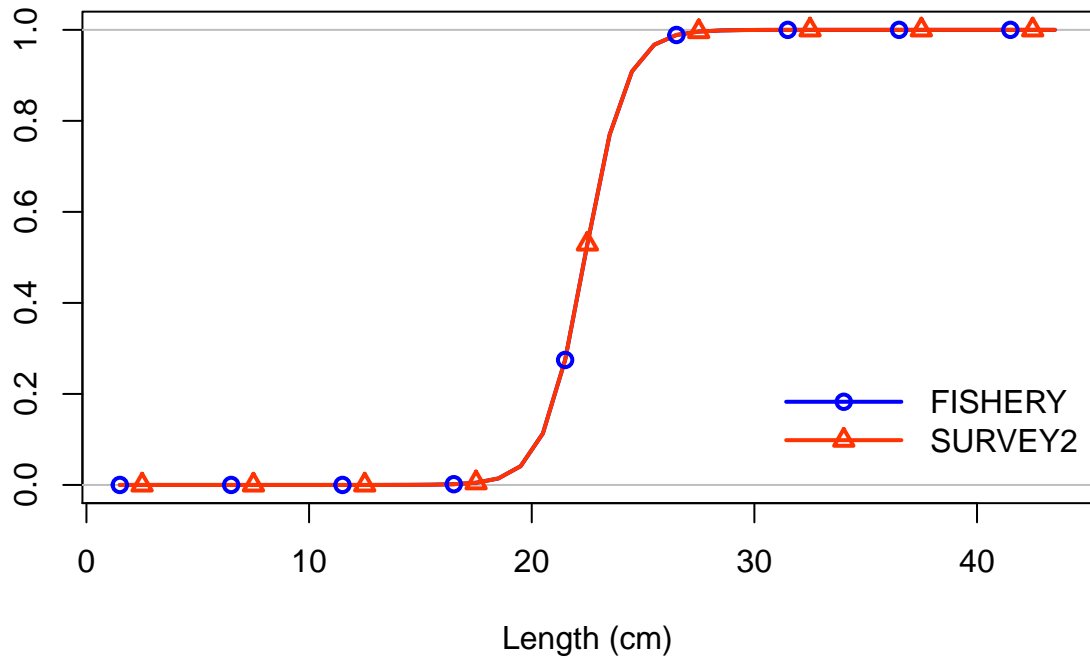




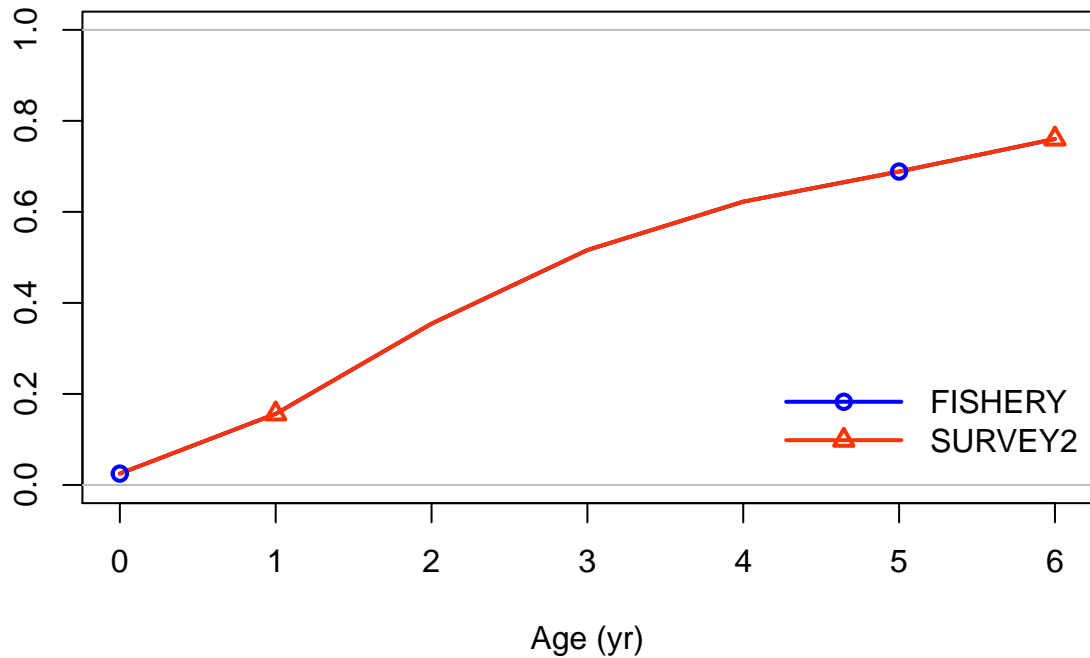




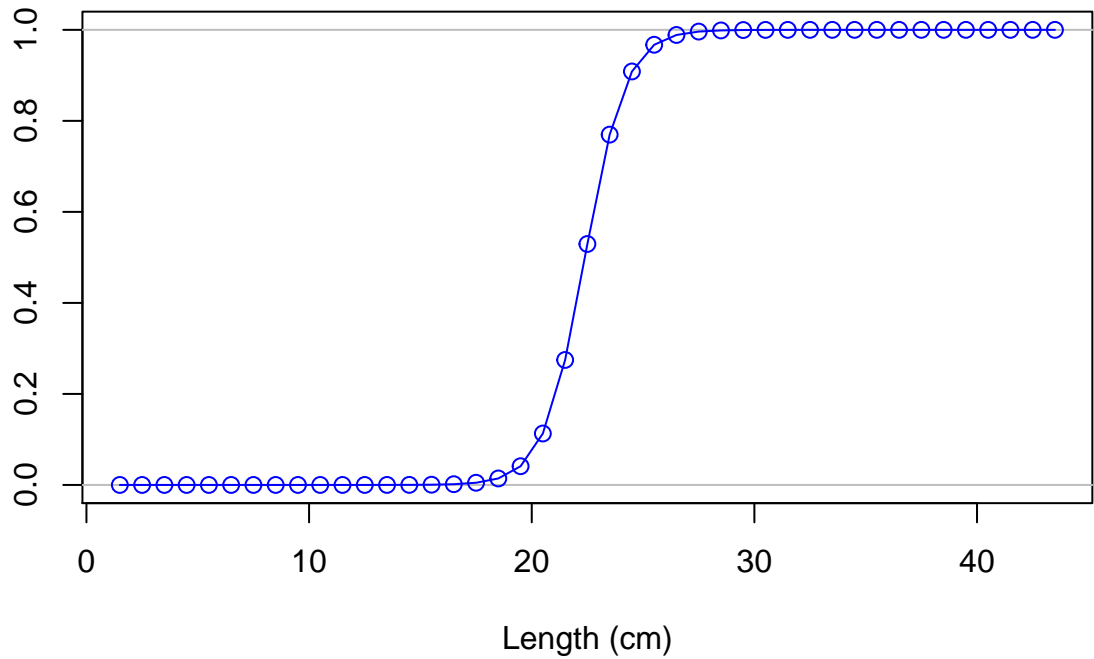
Selectivity



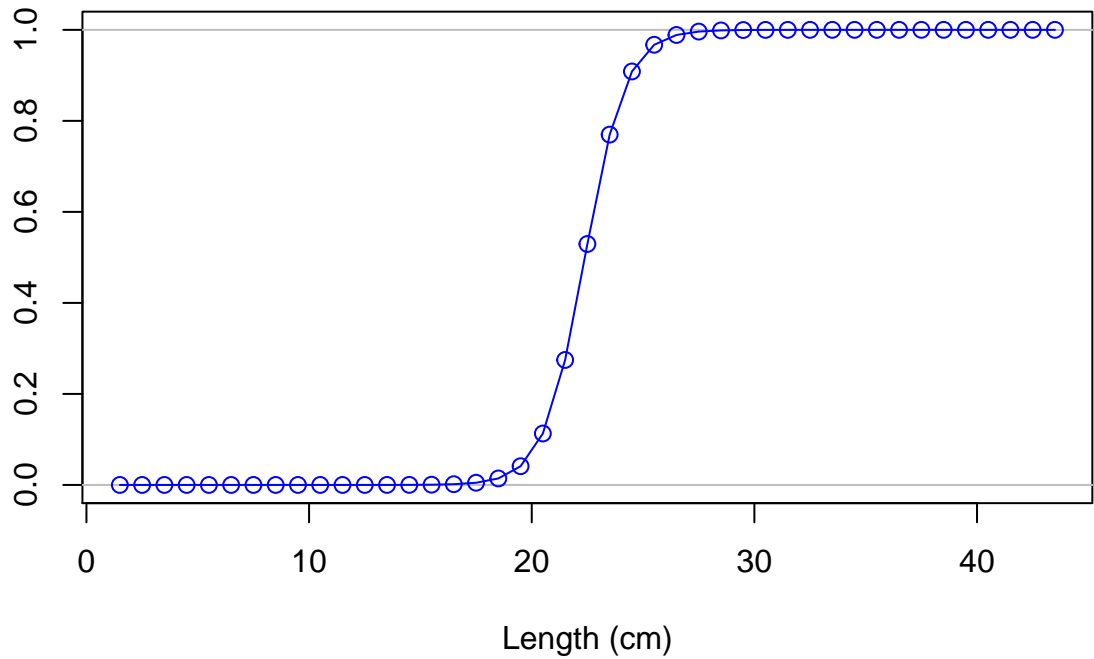
Selectivity

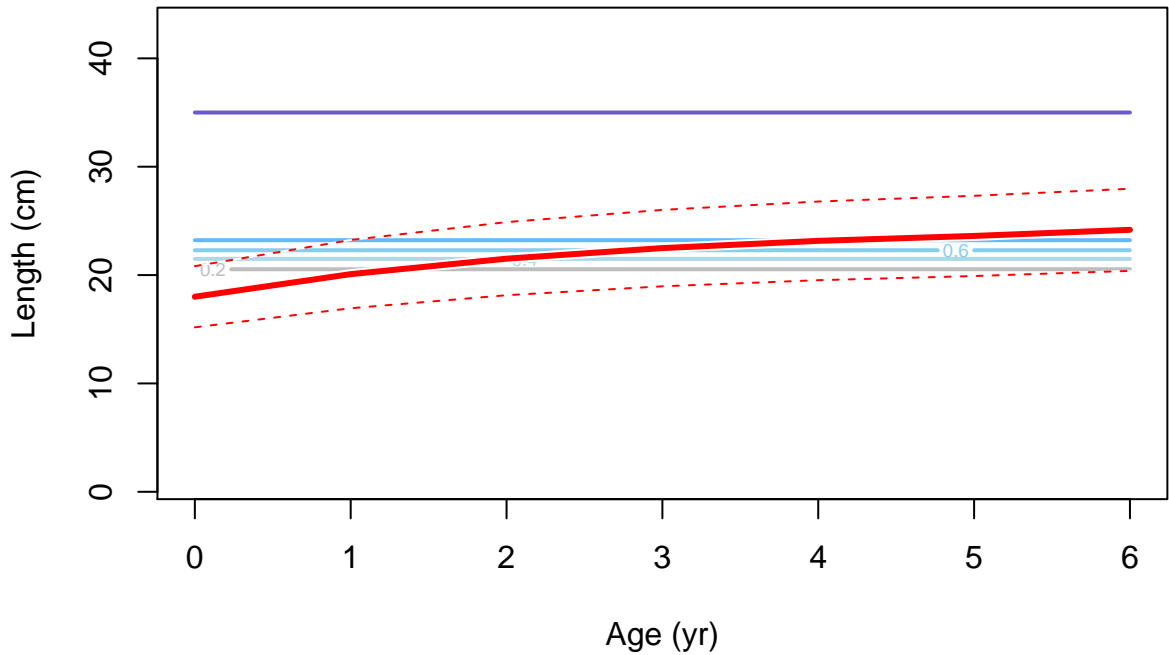


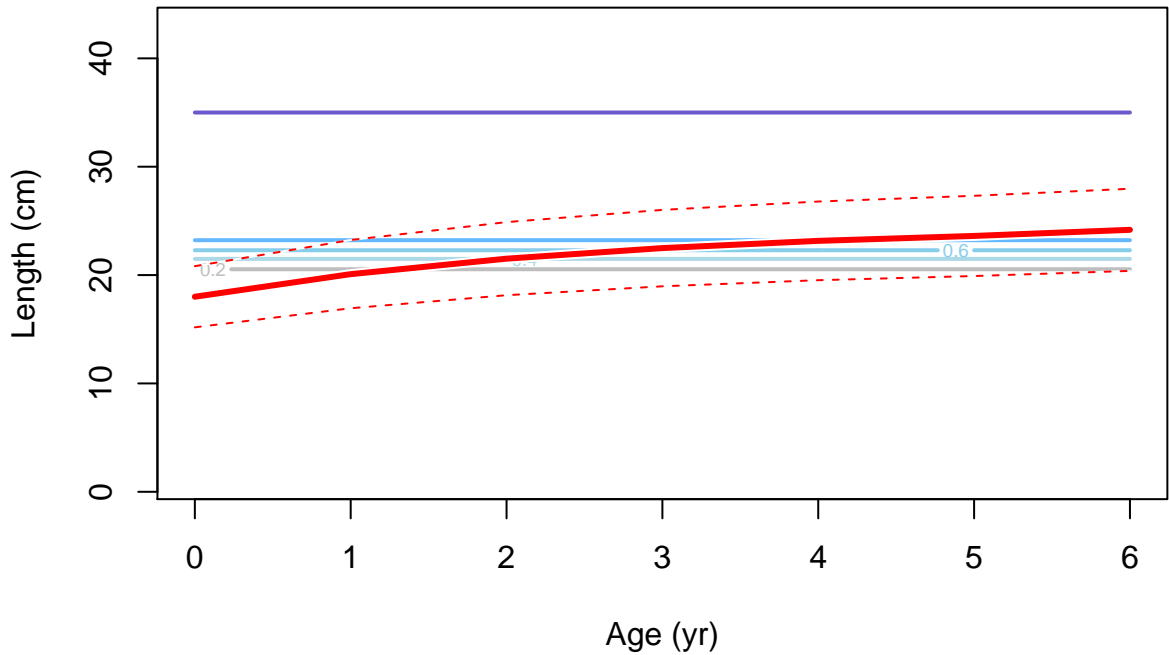
Selectivity



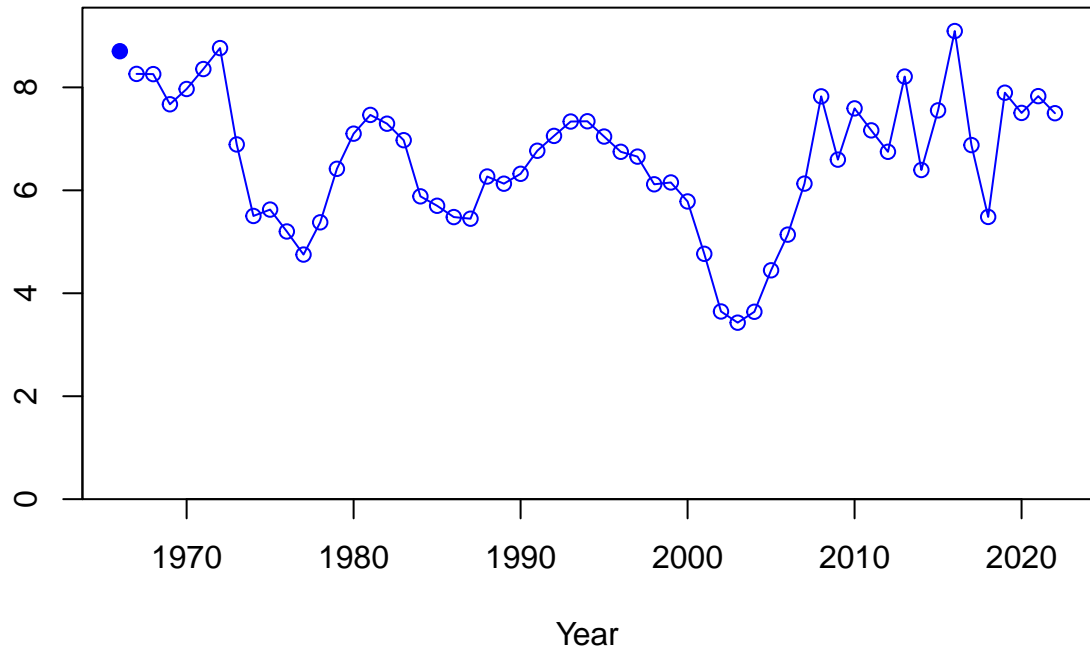
Selectivity



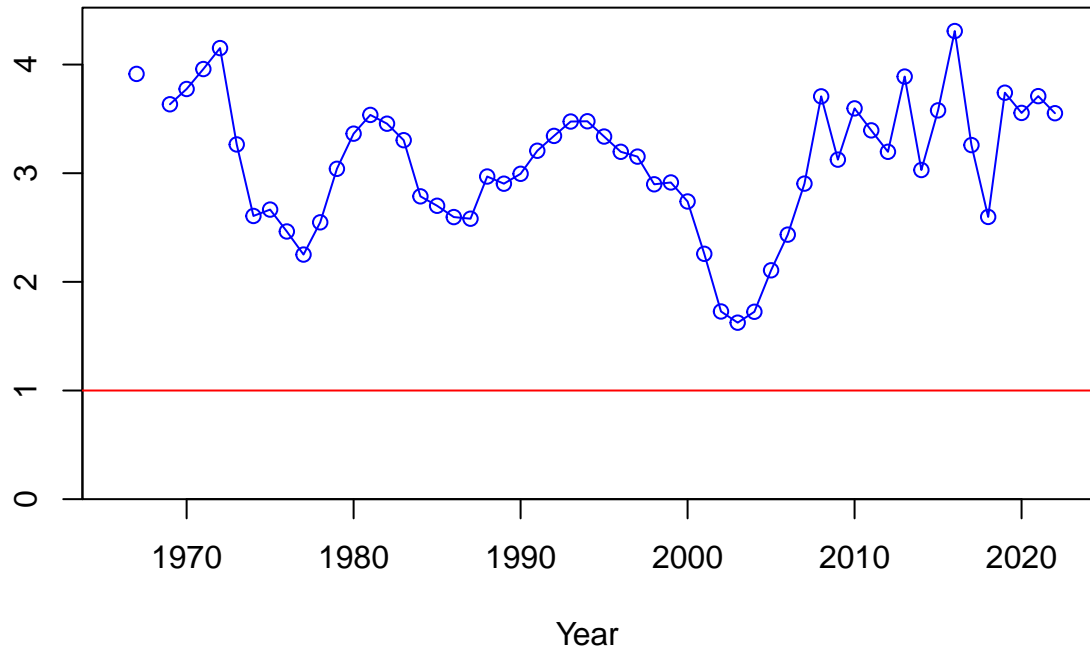


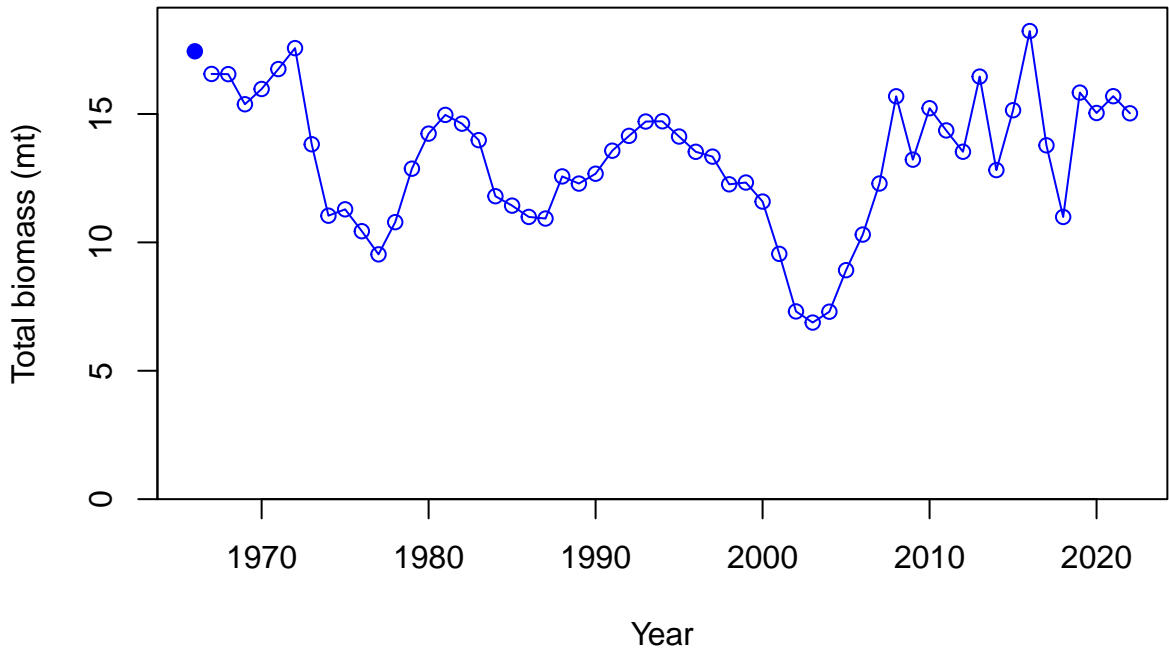


Spawning biomass (mt)

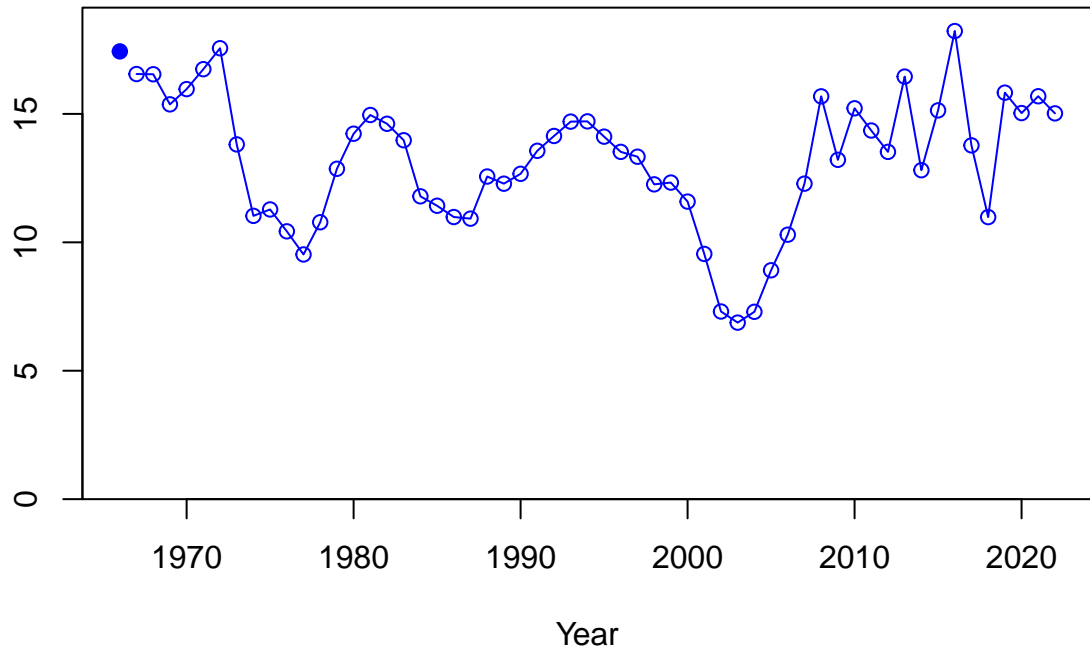


Relative spawning biomass: B/B_{MSY}

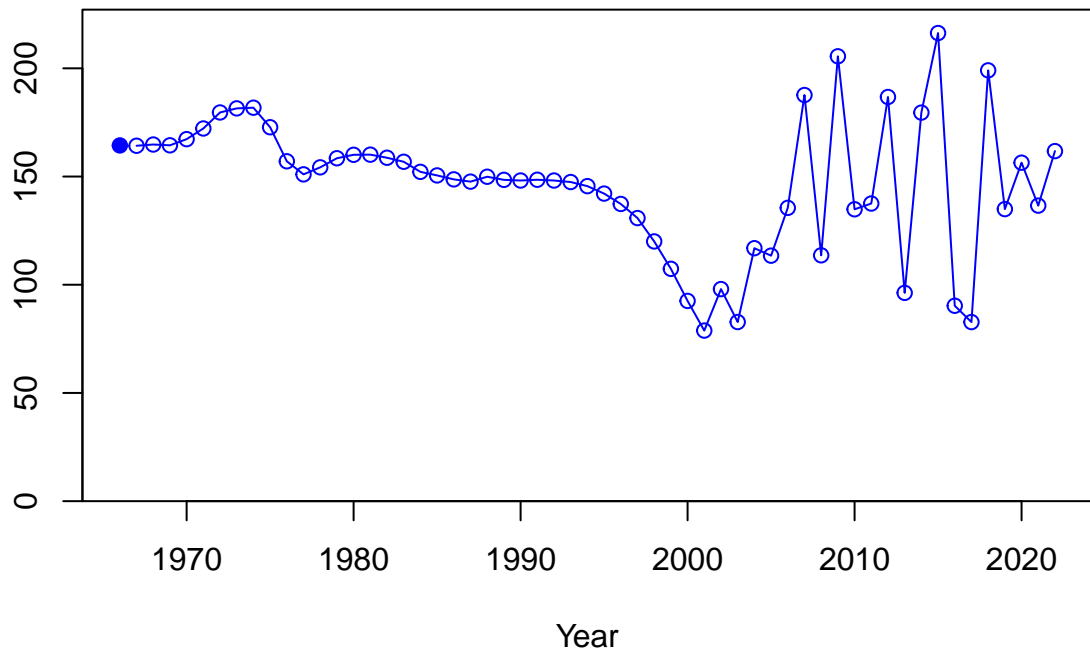




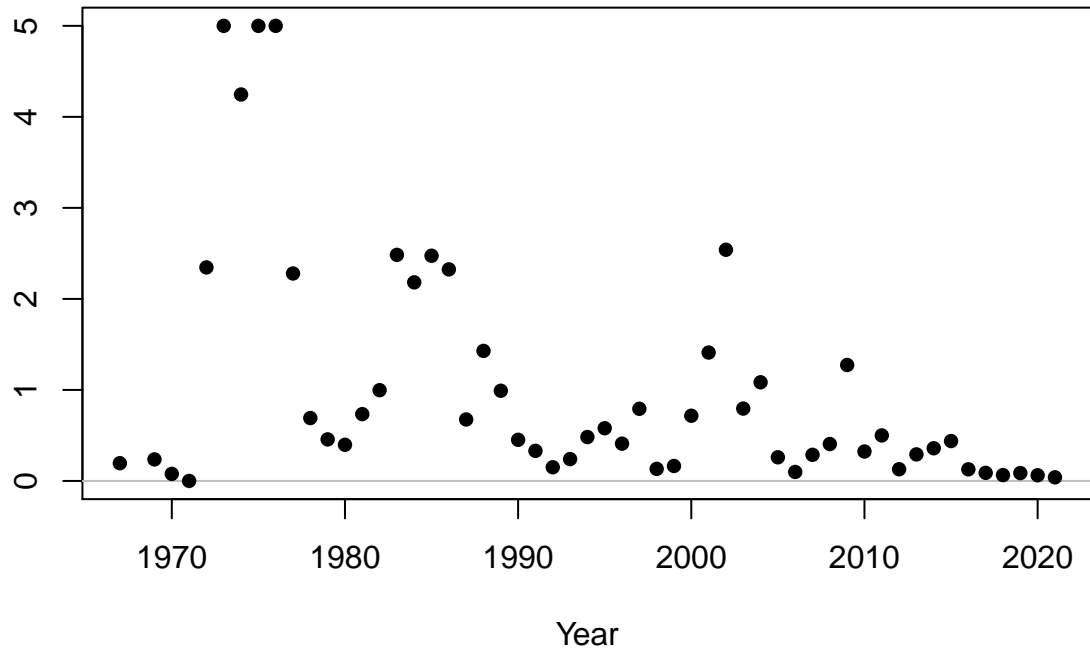
Summary biomass (mt)

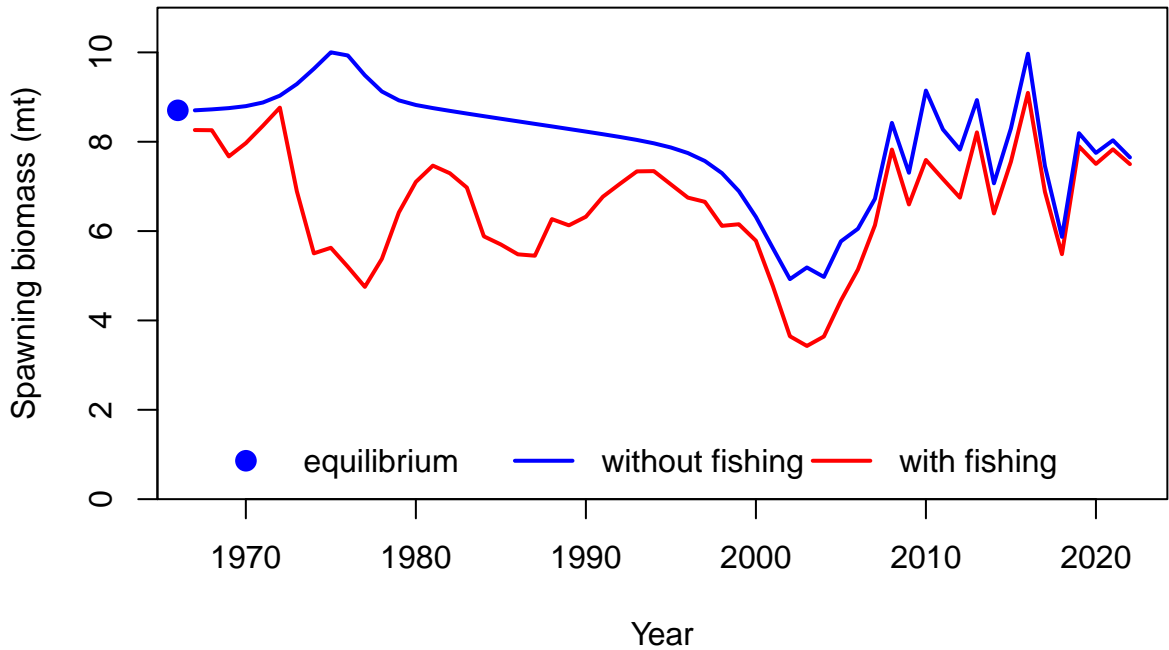


Age-0 recruits (1,000s)

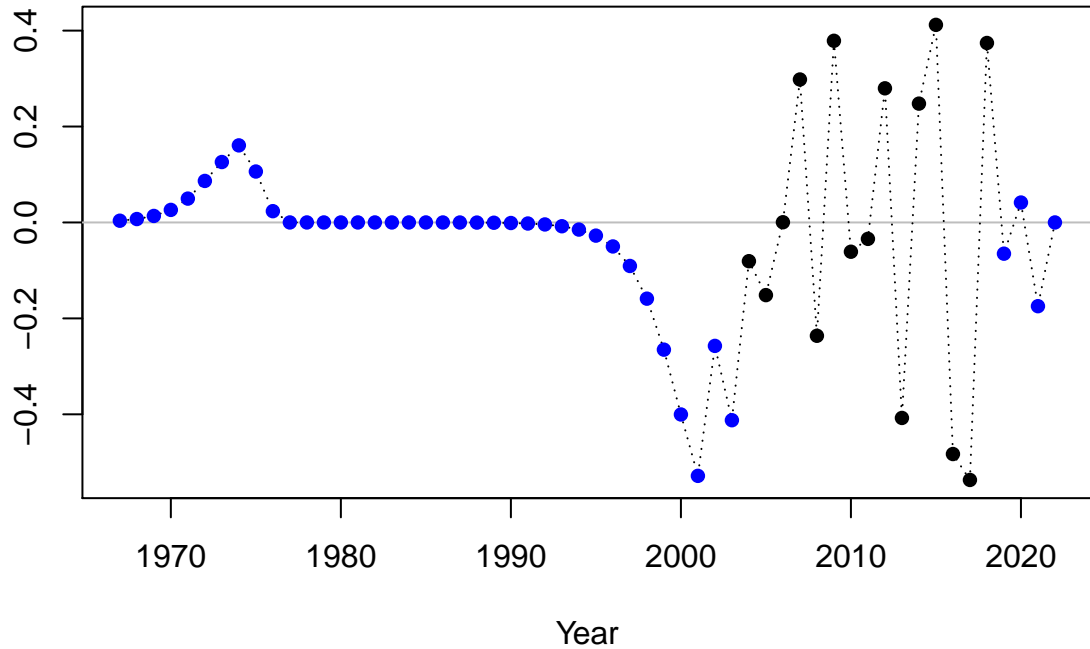


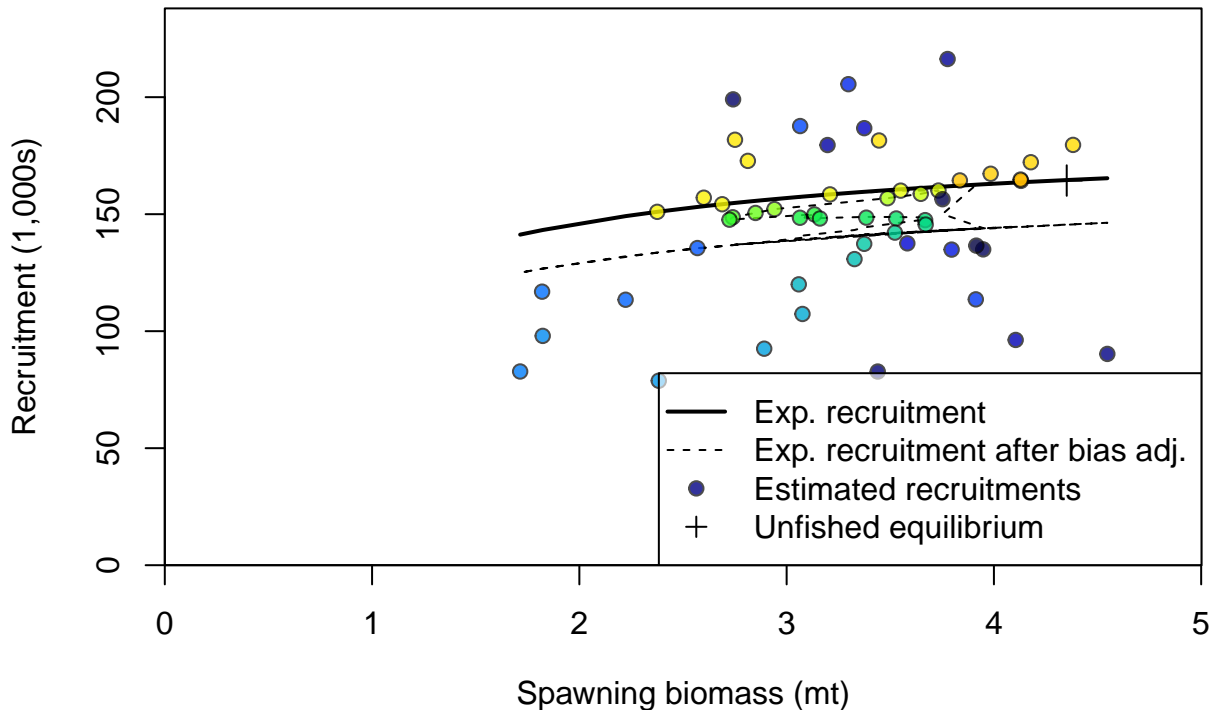
Summary Fishing Mortality

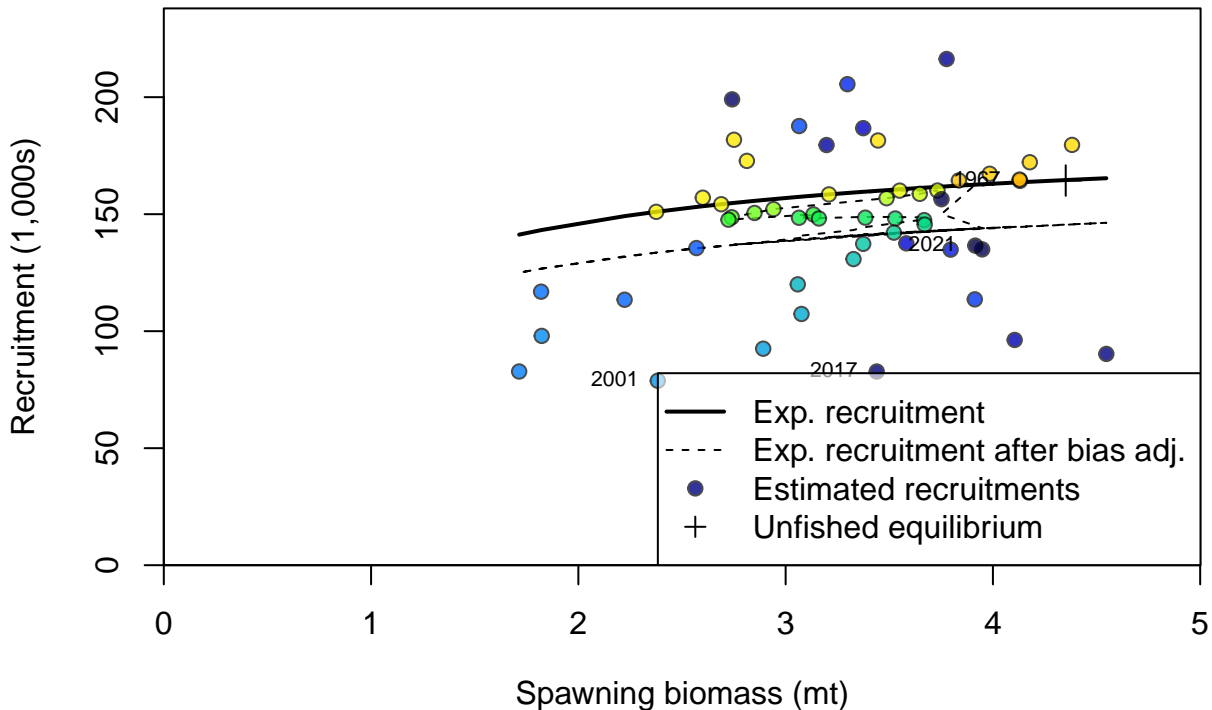




Log recruitment deviation







Log recruitment deviation

0.4
0.2
0.0
-0.2
-0.4

0.0

0.2

0.4

0.6

0.8

1.0

Spawning output (relative to B_0)

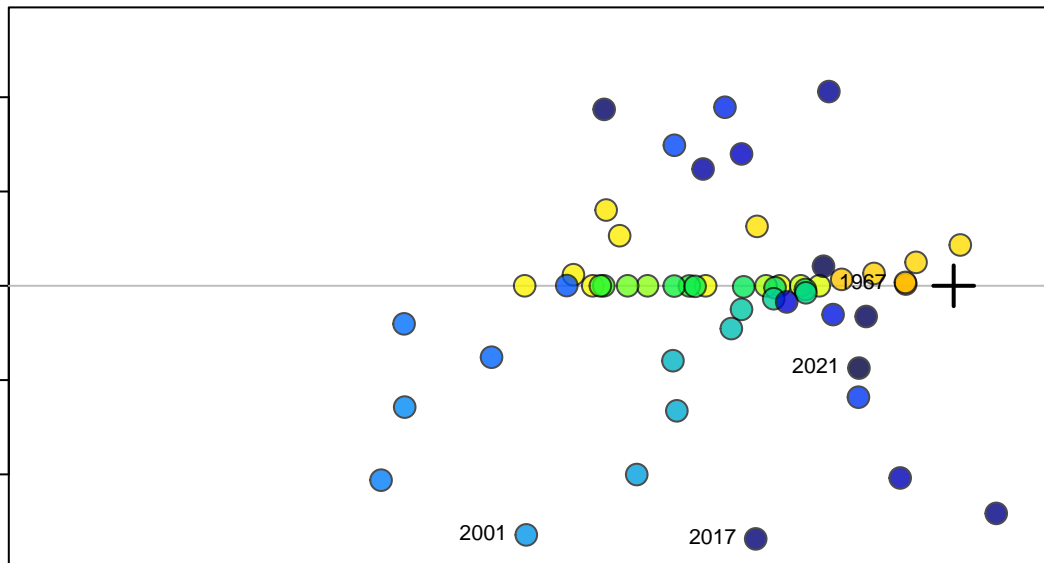
2001

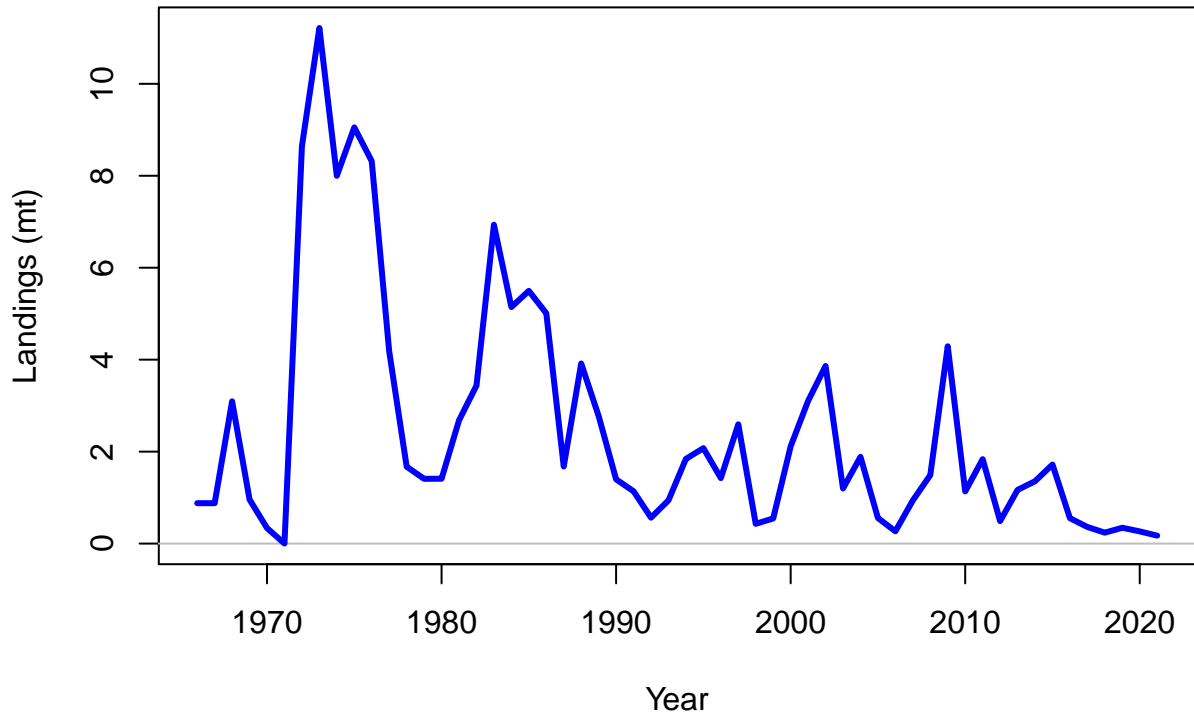
2017

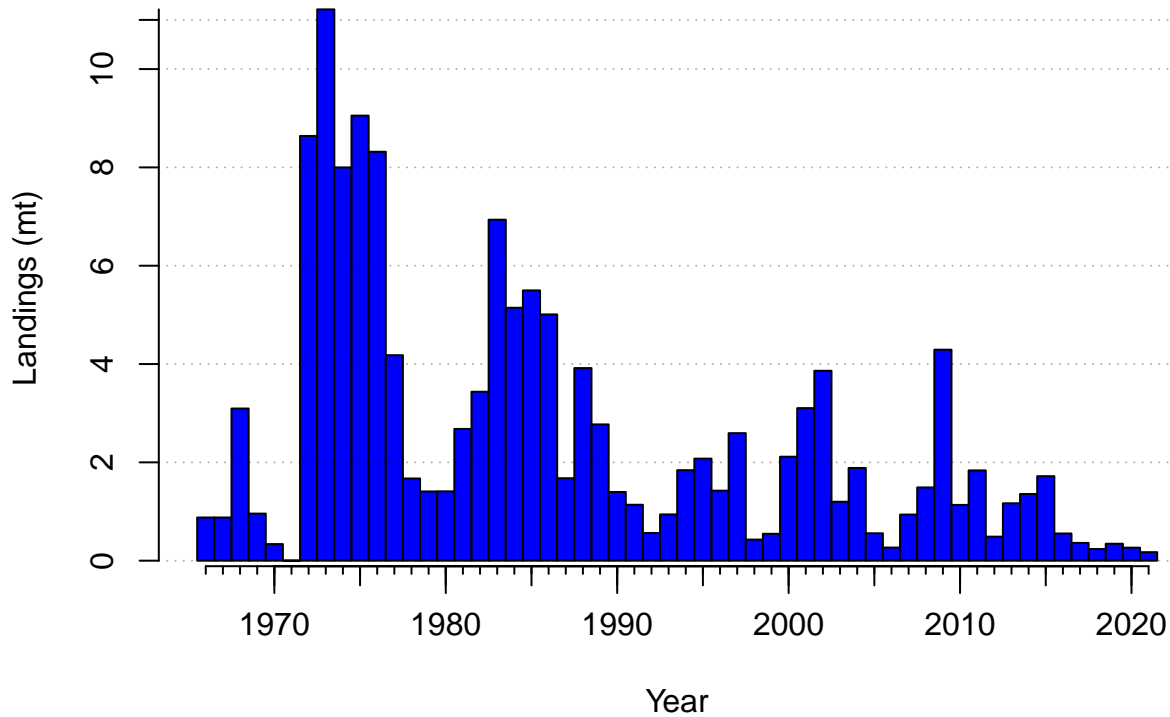
2021

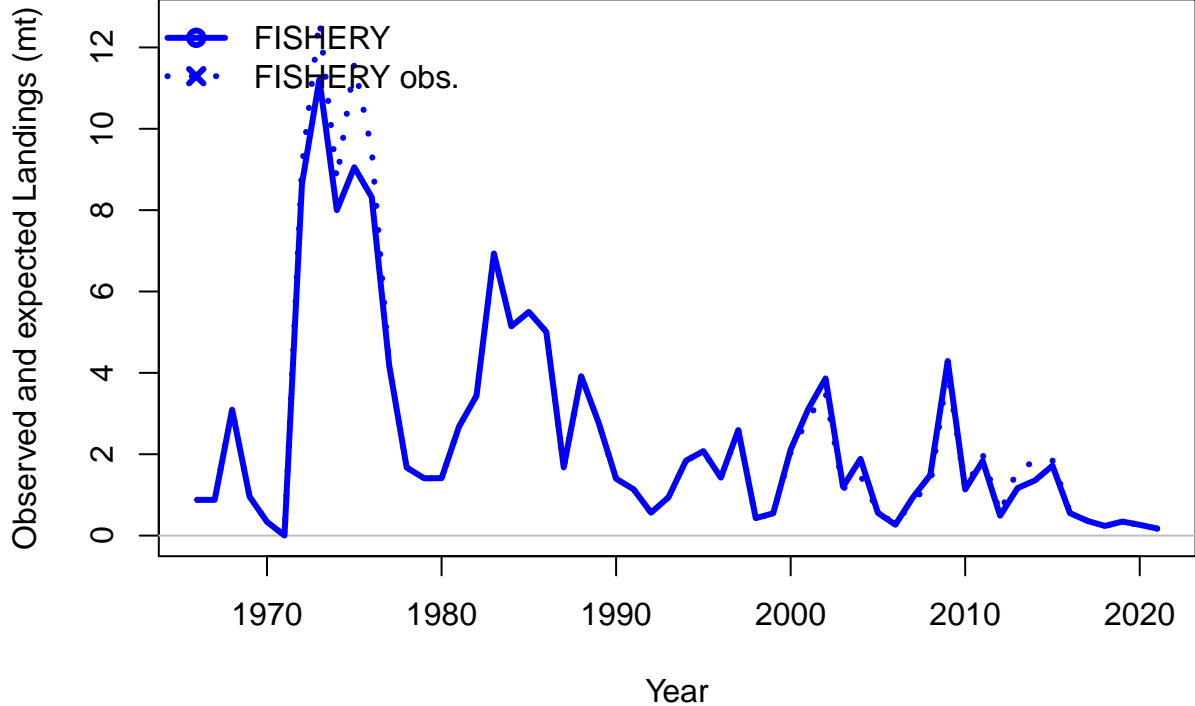
1967

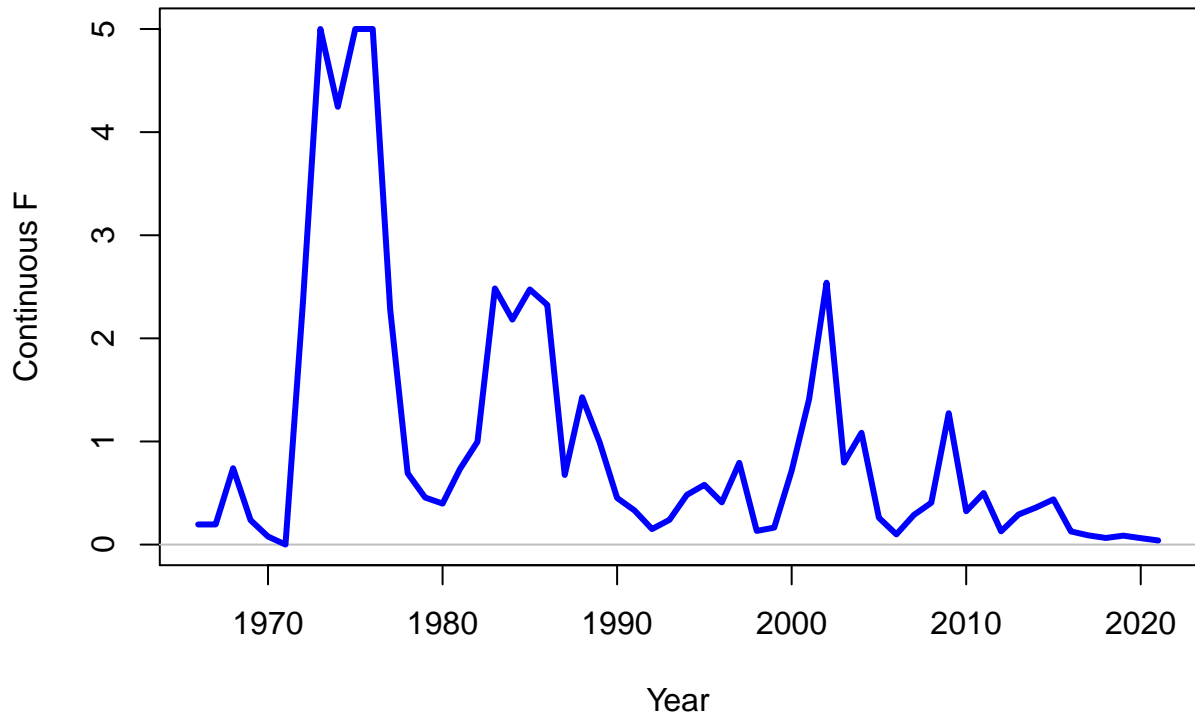
+



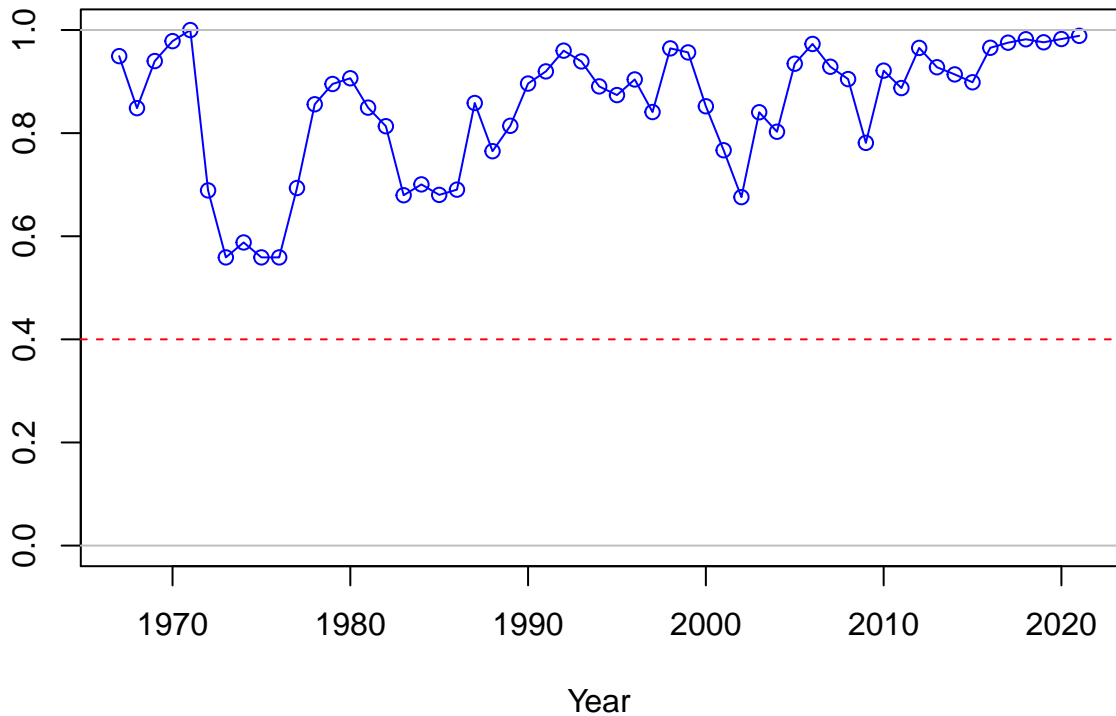




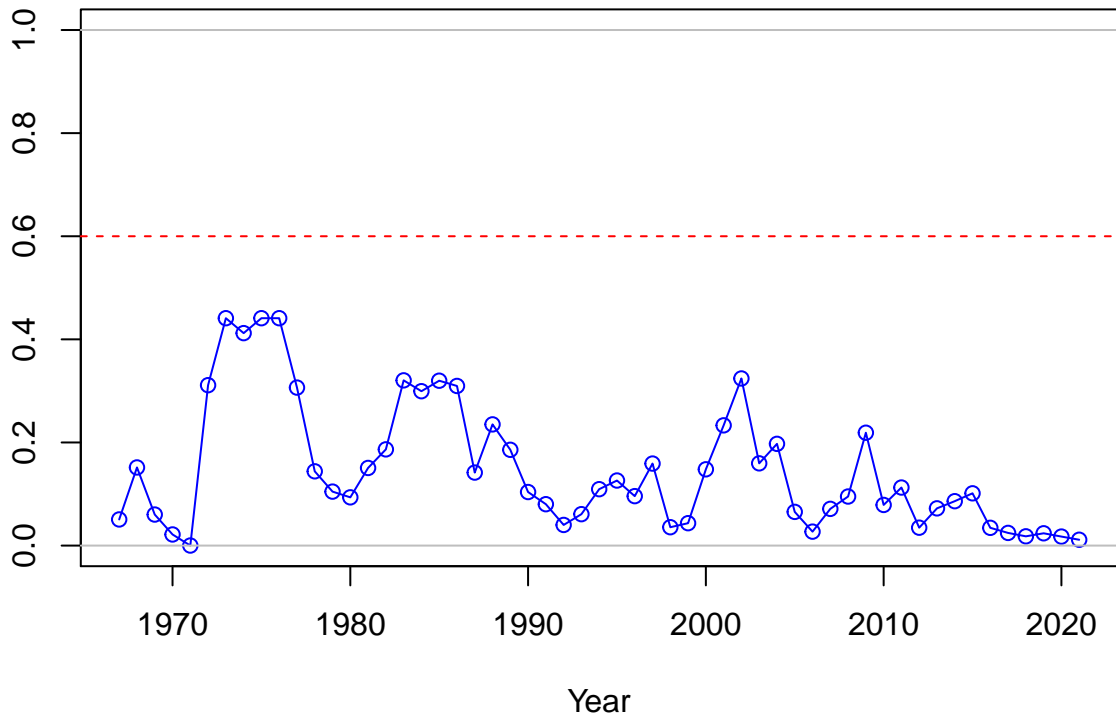




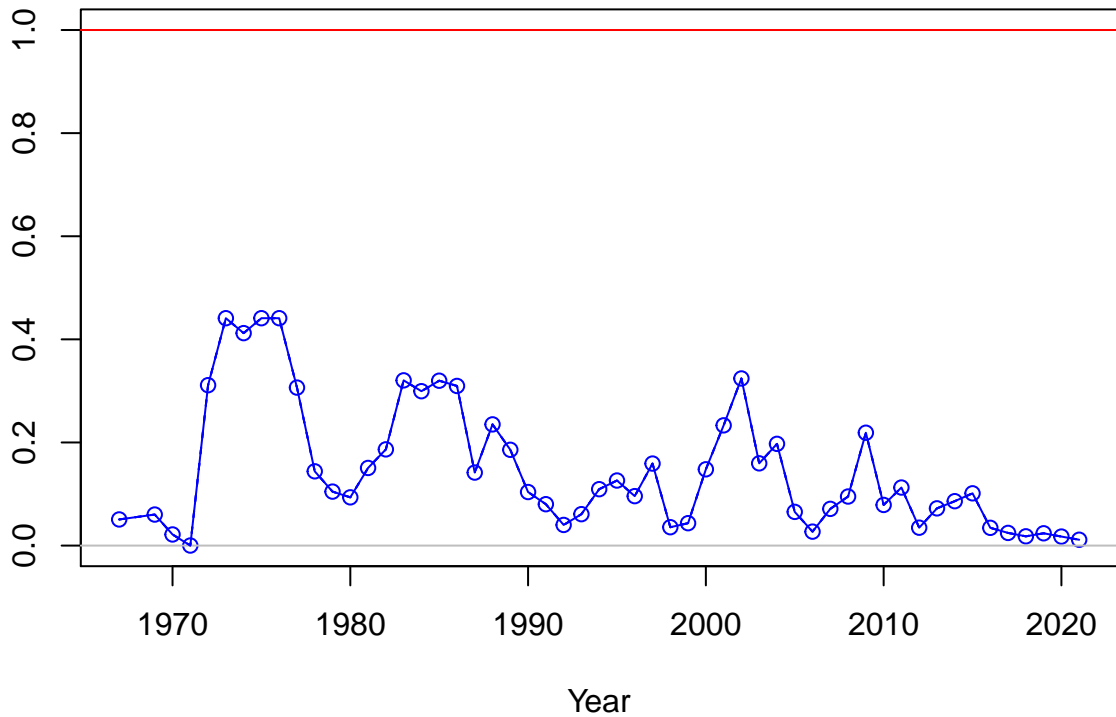
SPR



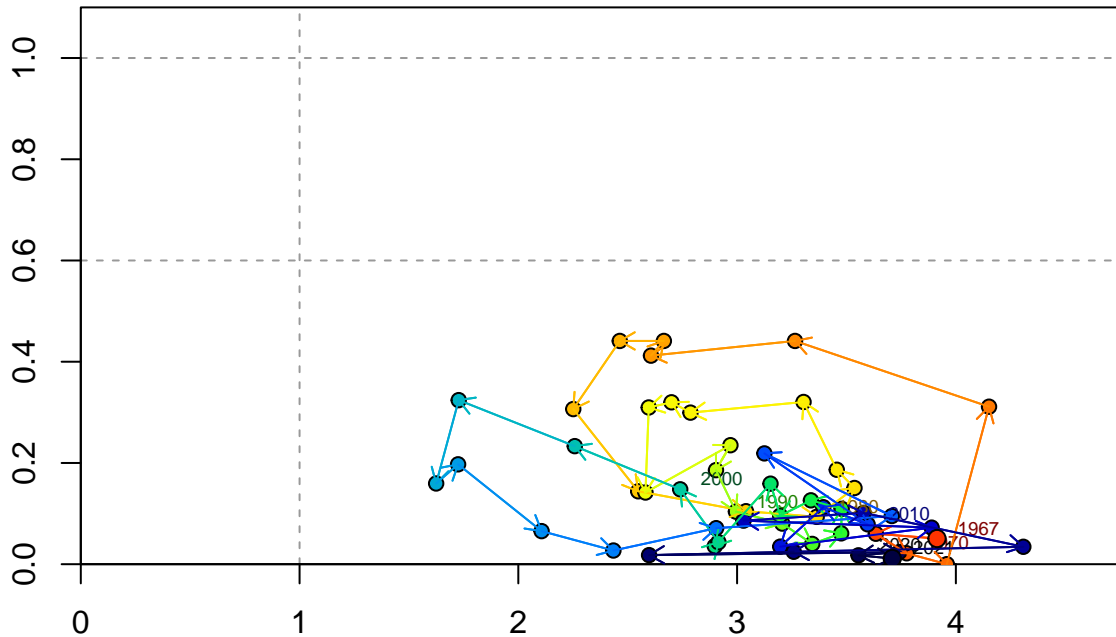
1-SPR



Fishing intensity: 1-SPR

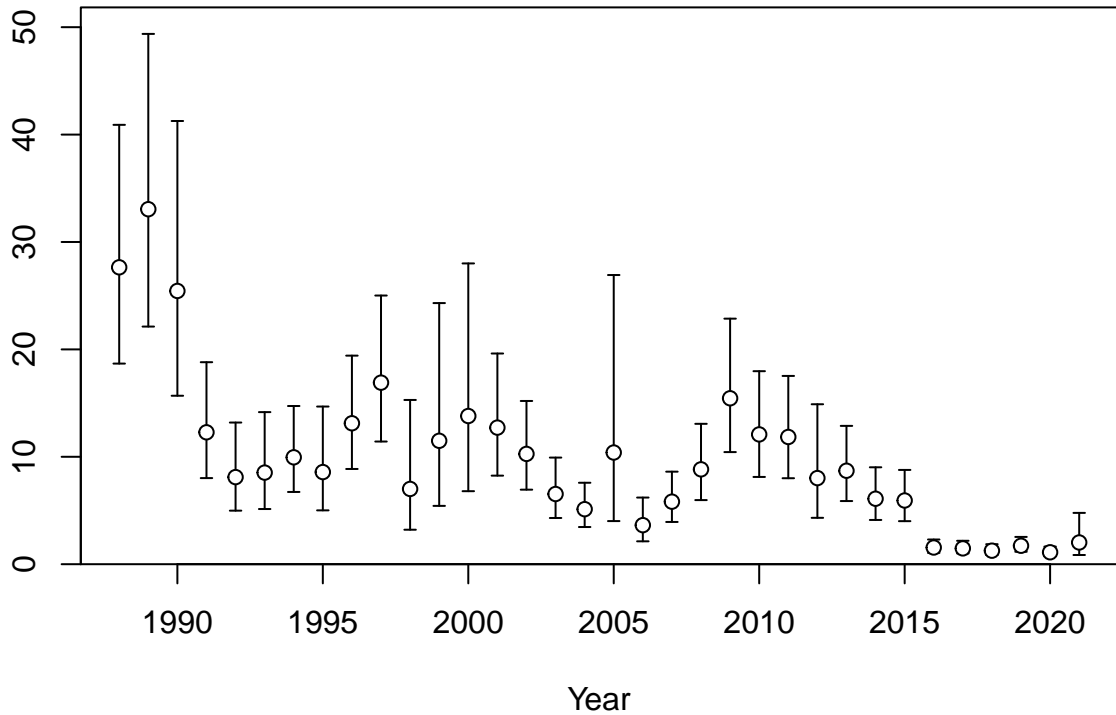


Fishing intensity: 1-SPR

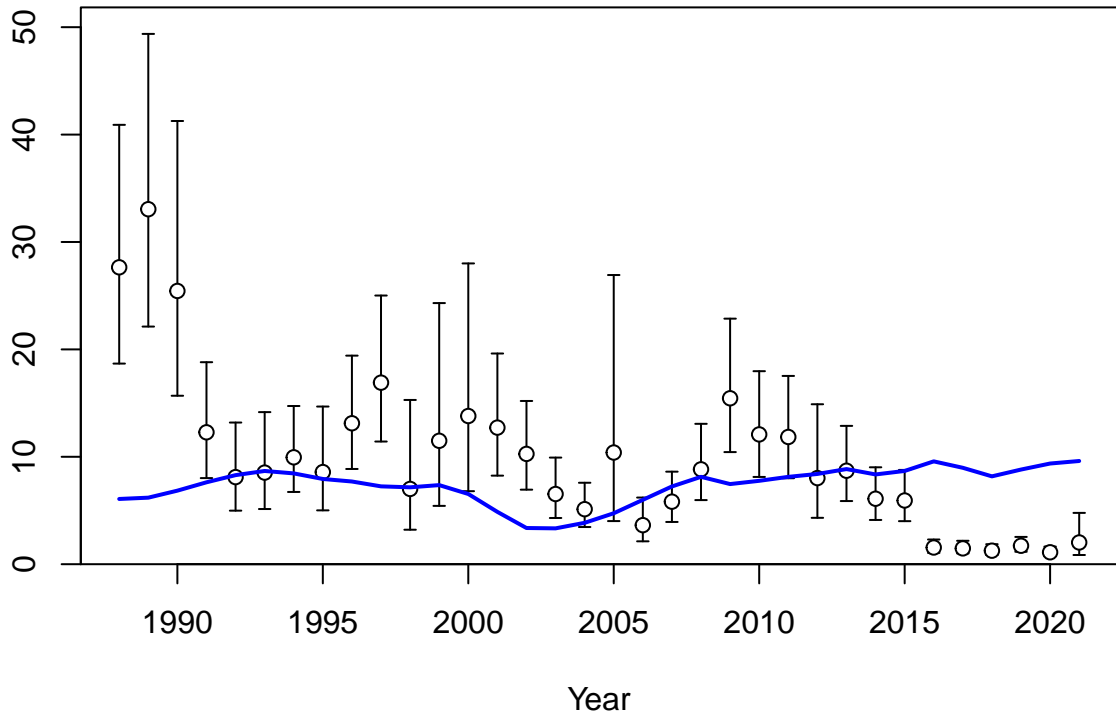


Relative spawning output: B/B_{MSY}

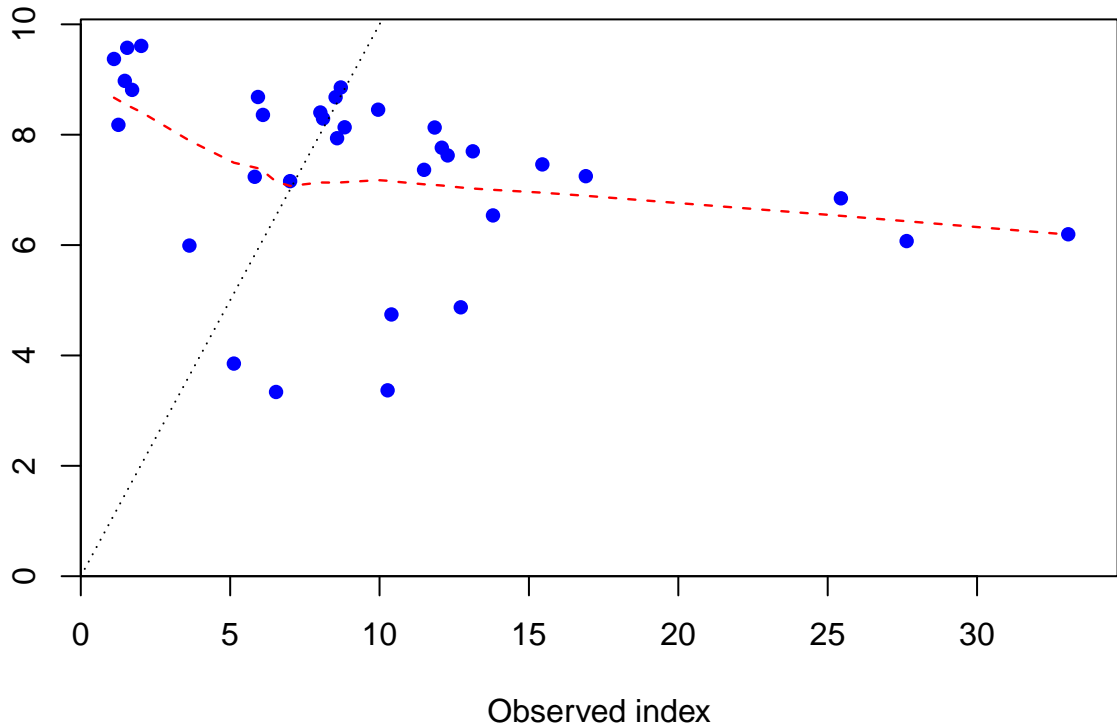
Index



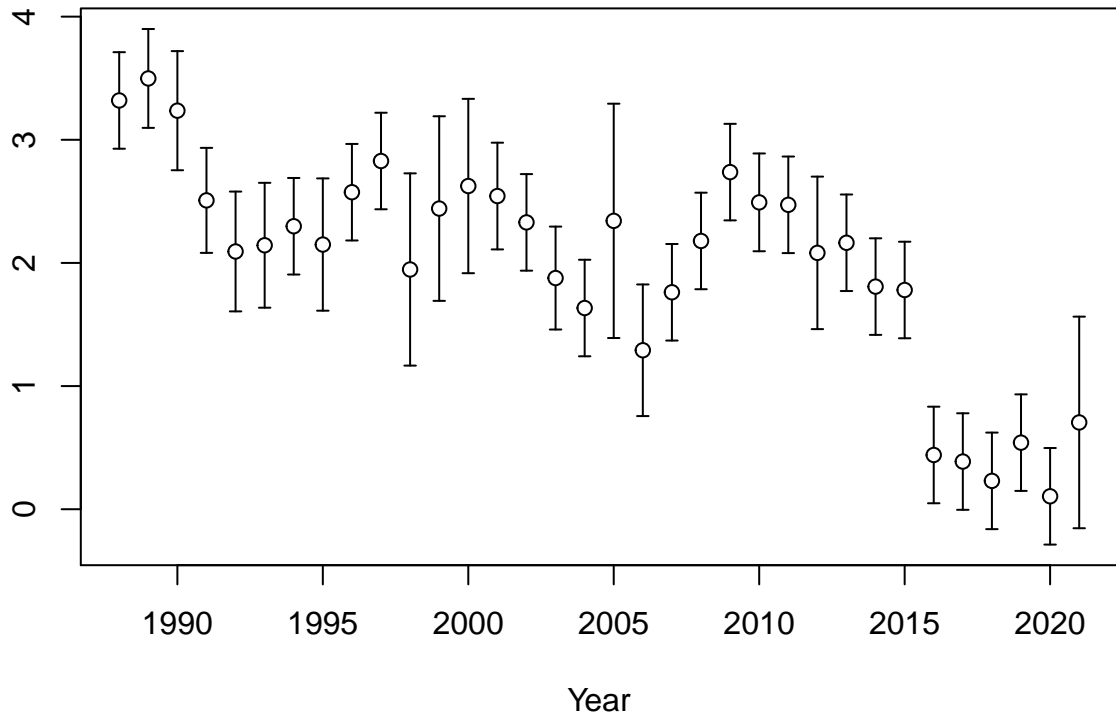
Index



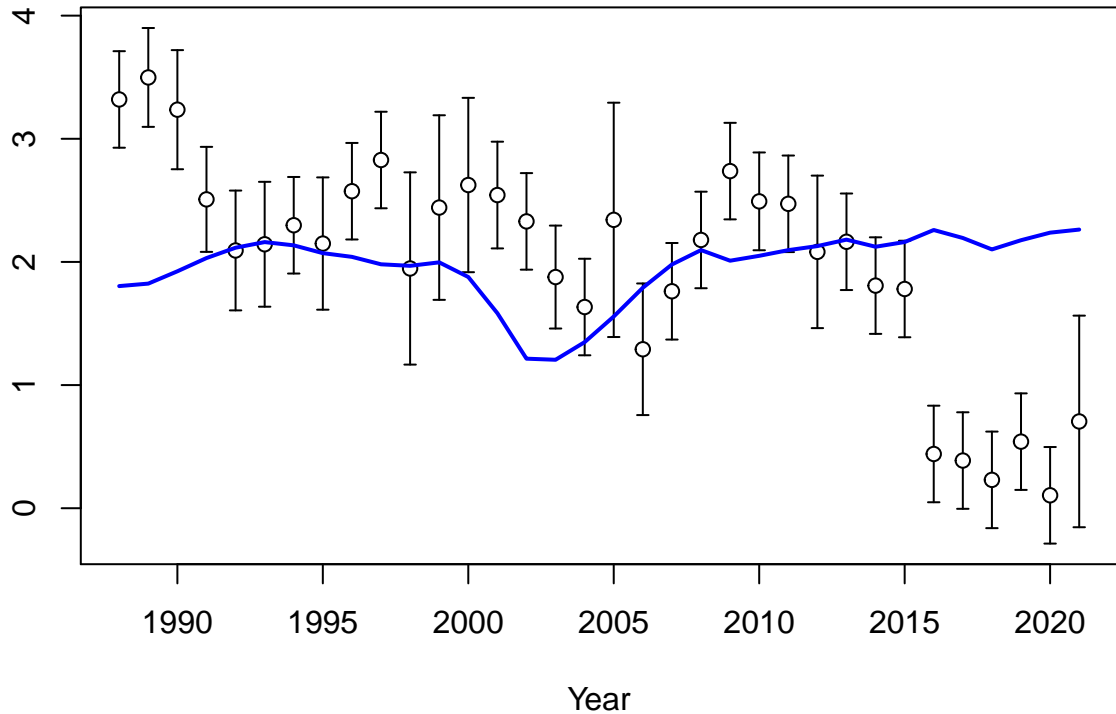
Expected index

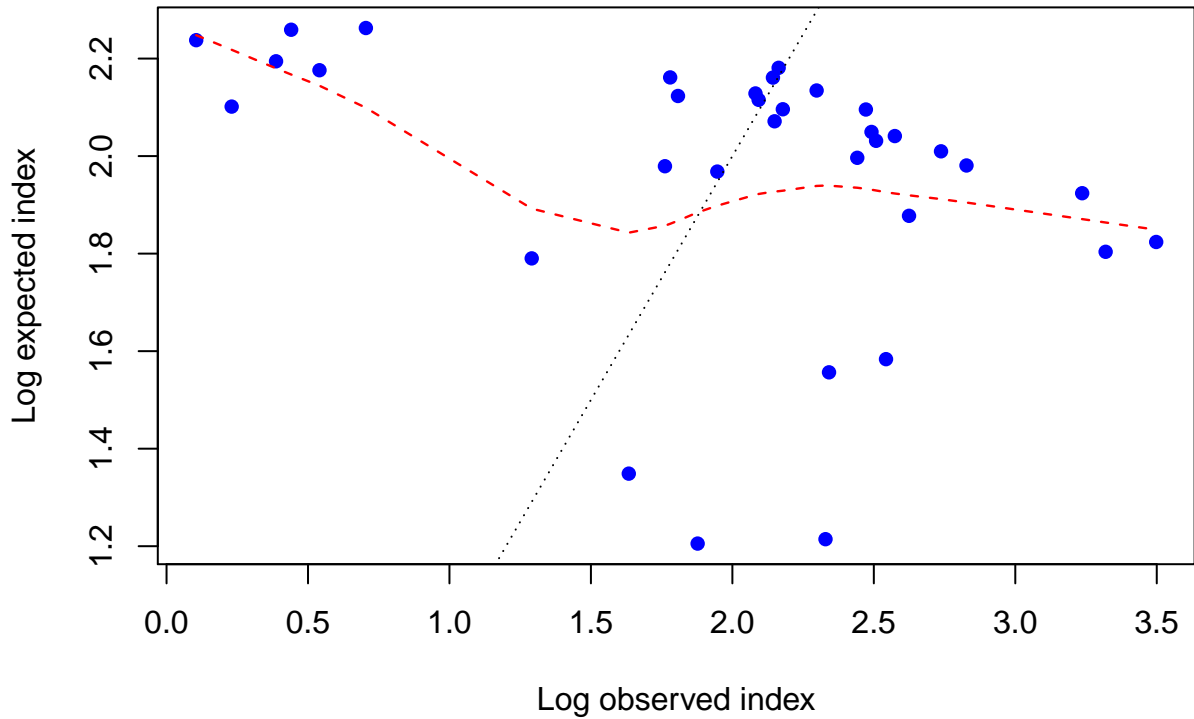


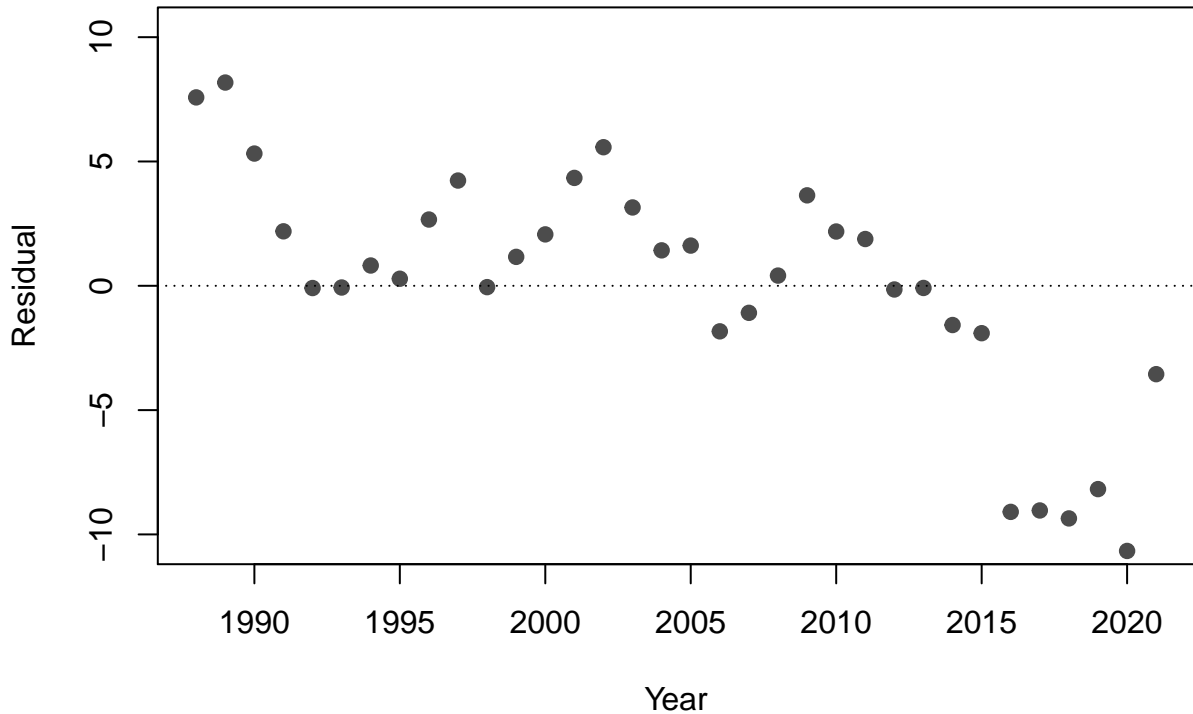
Log index

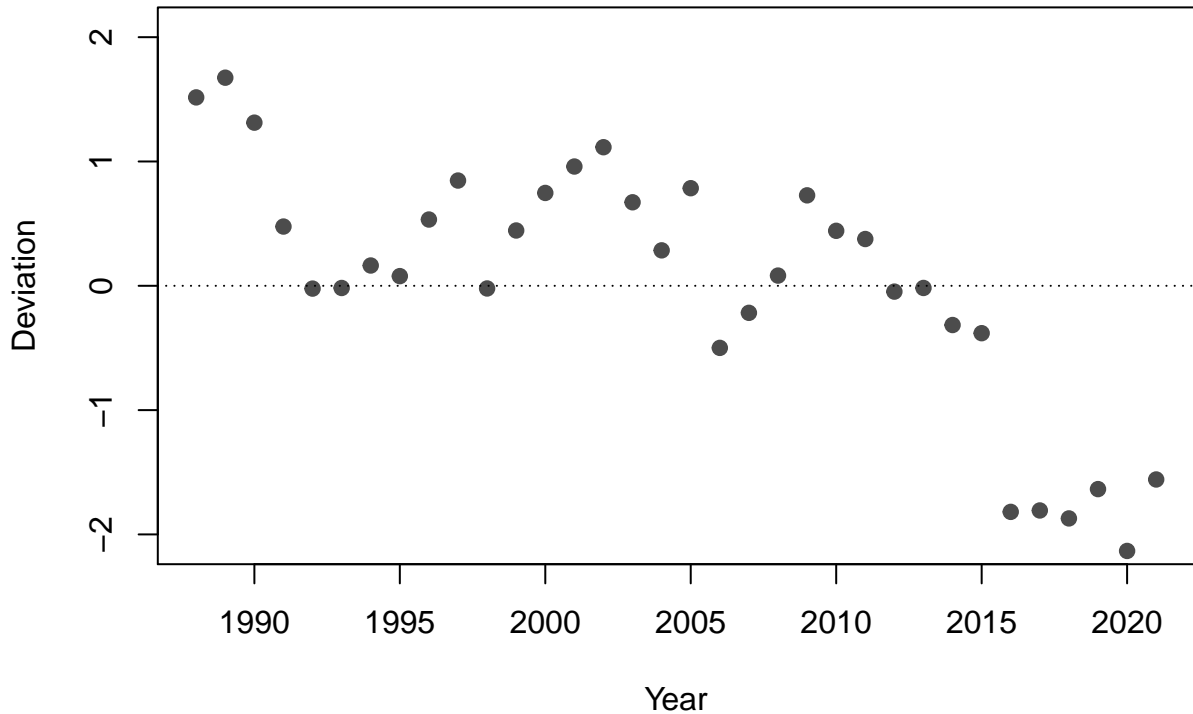


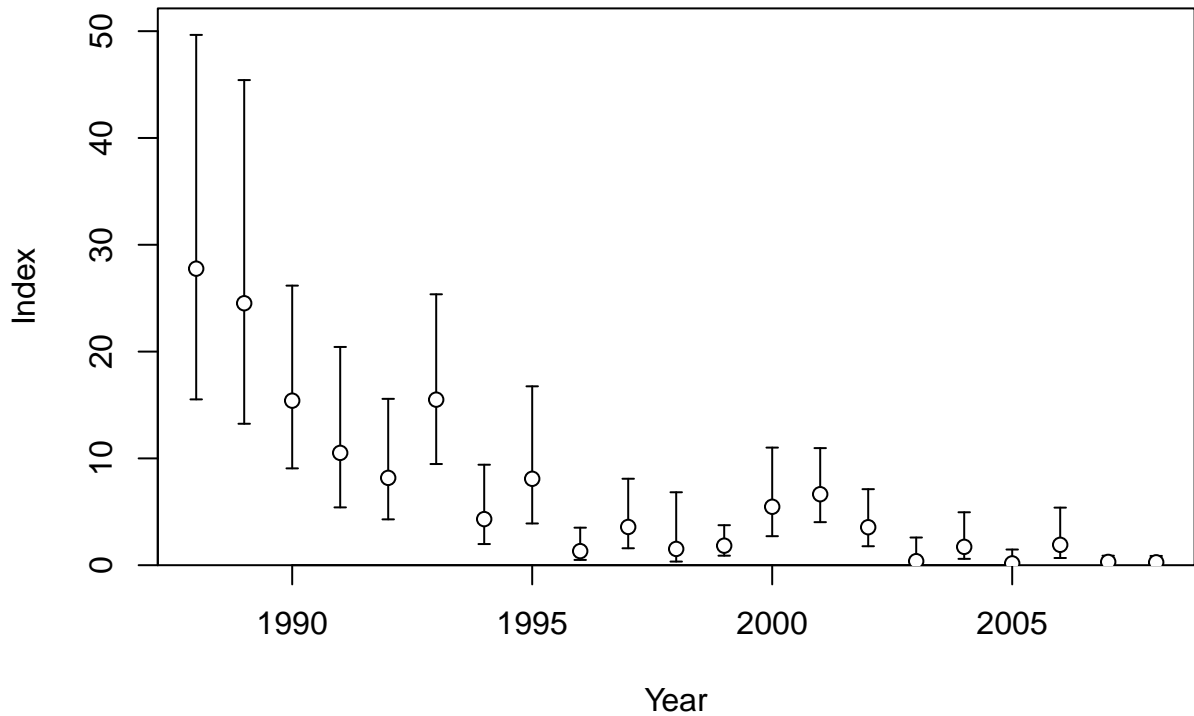
Log index

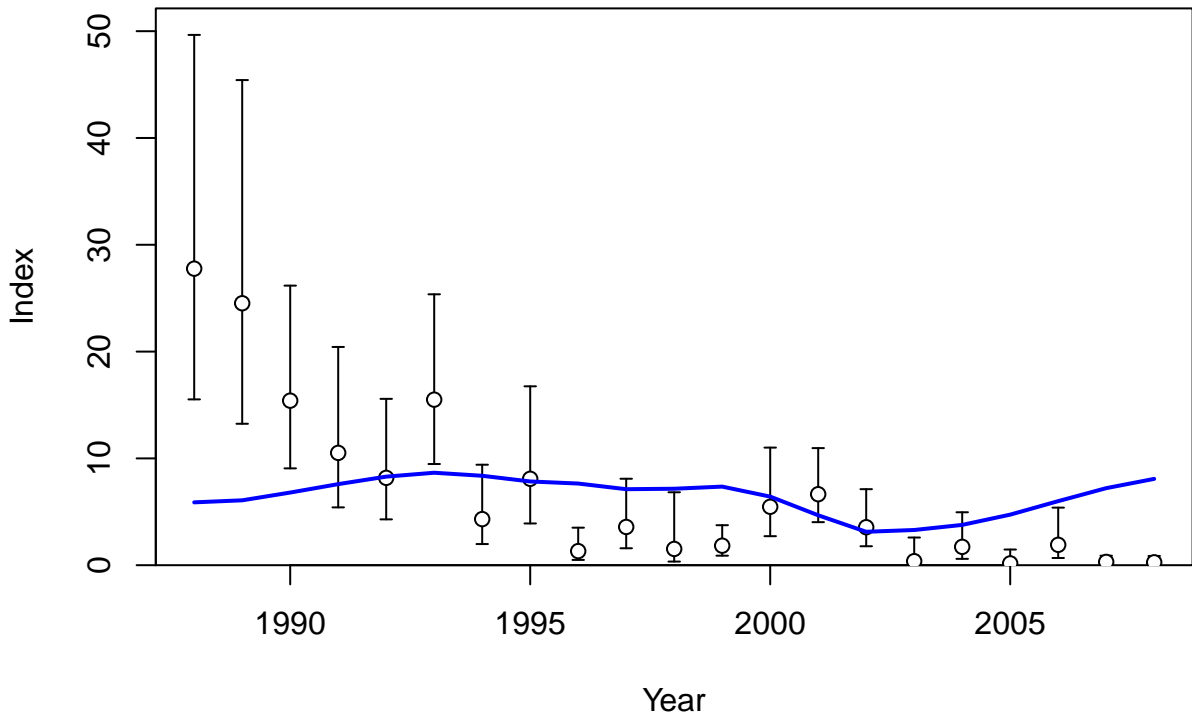


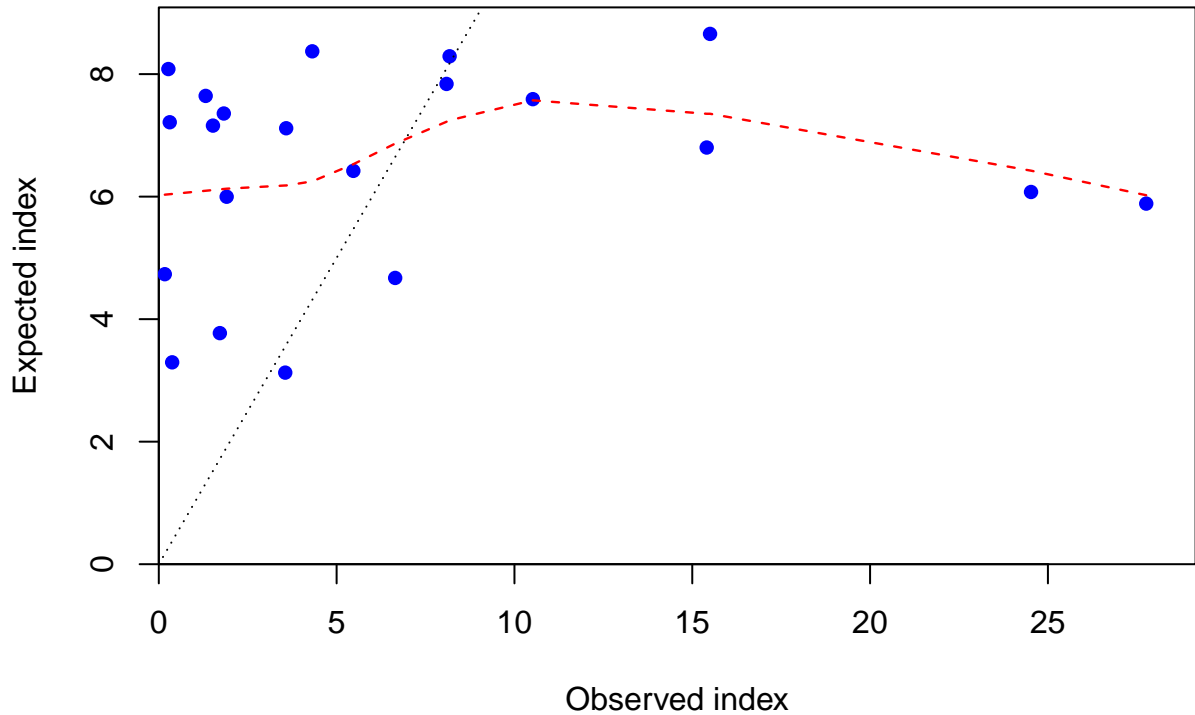


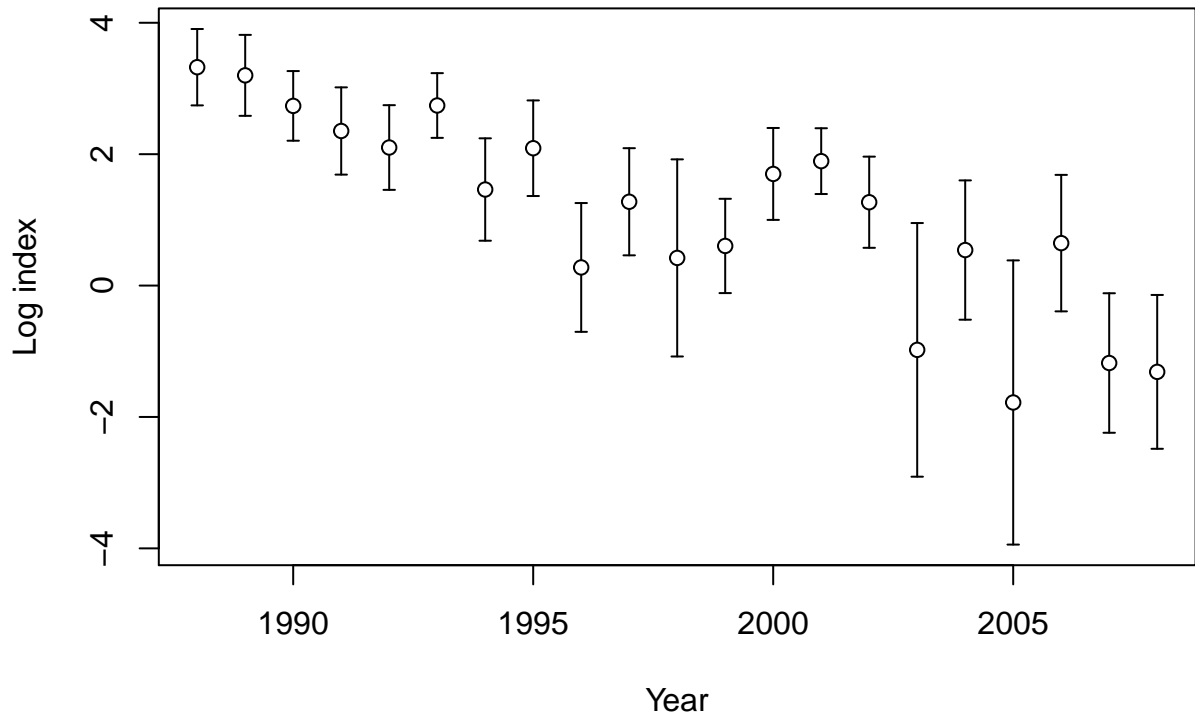


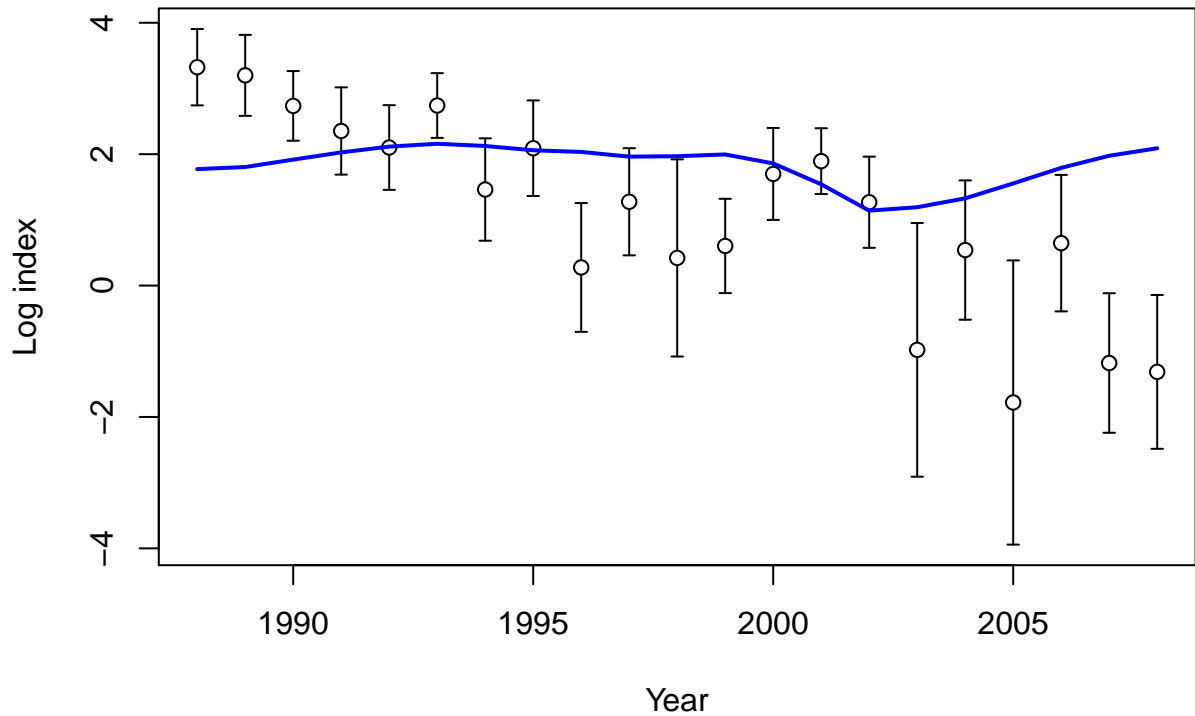


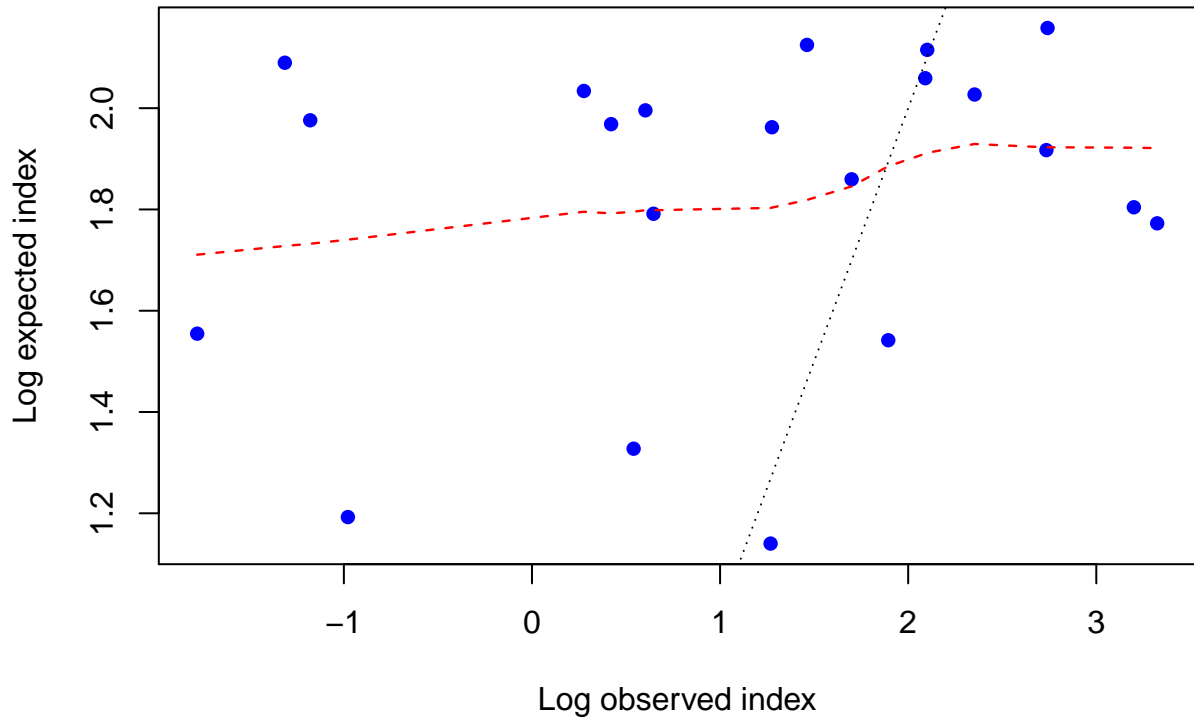




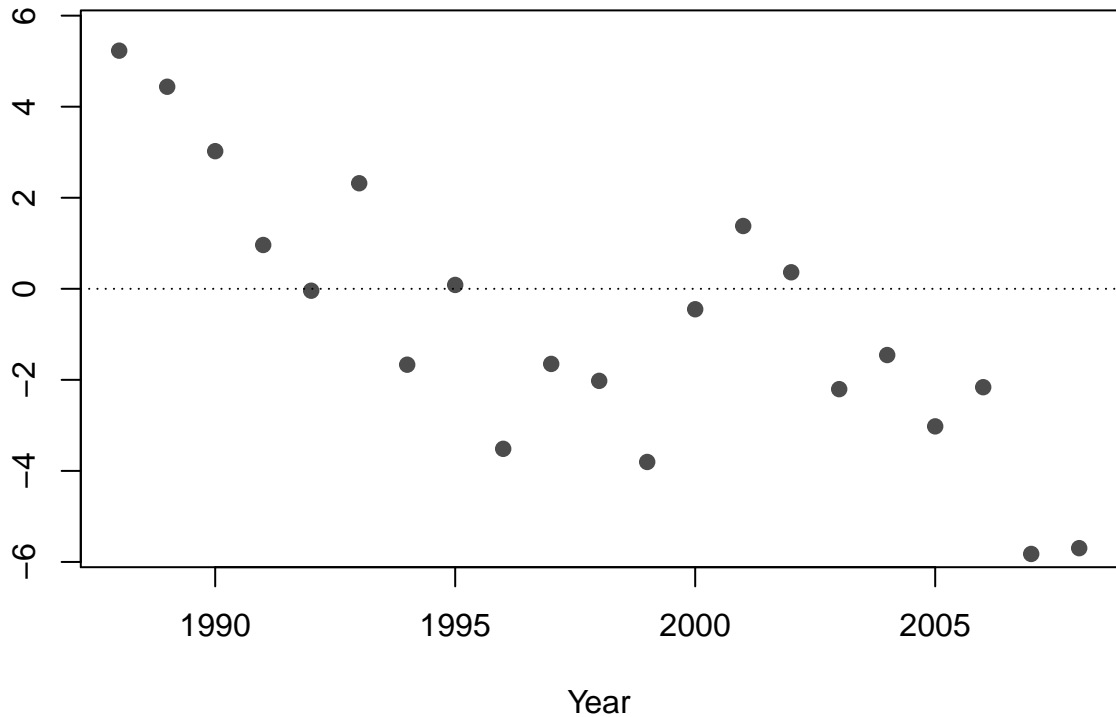


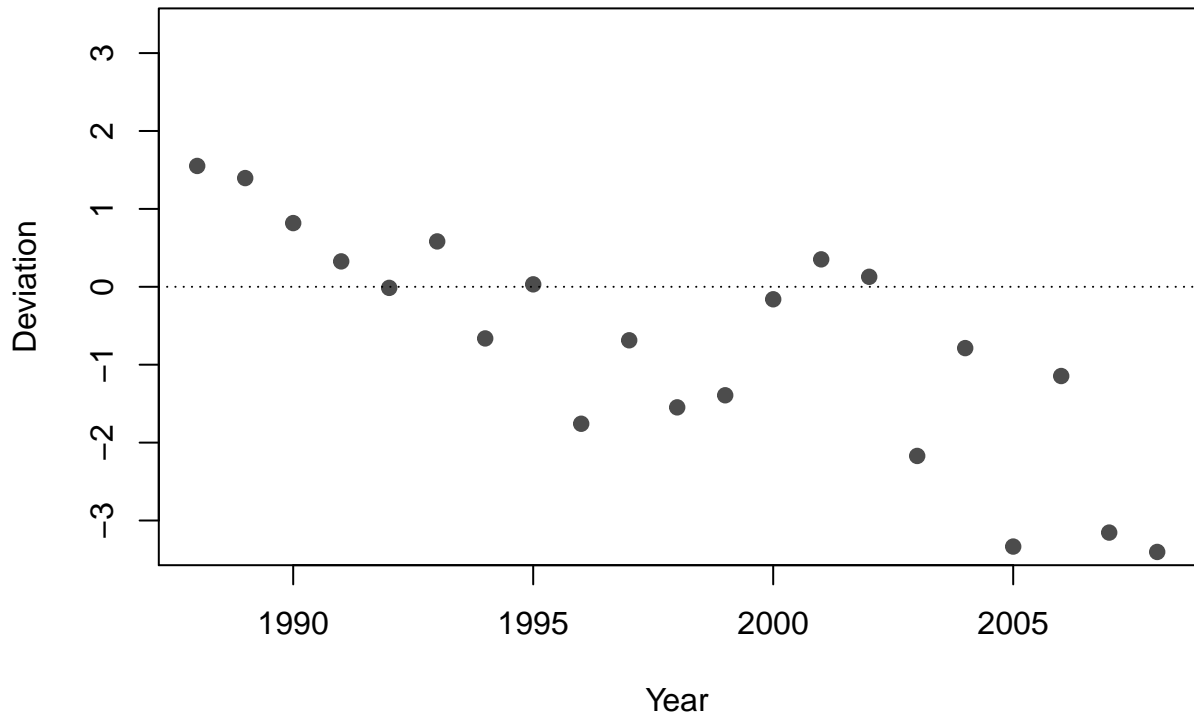




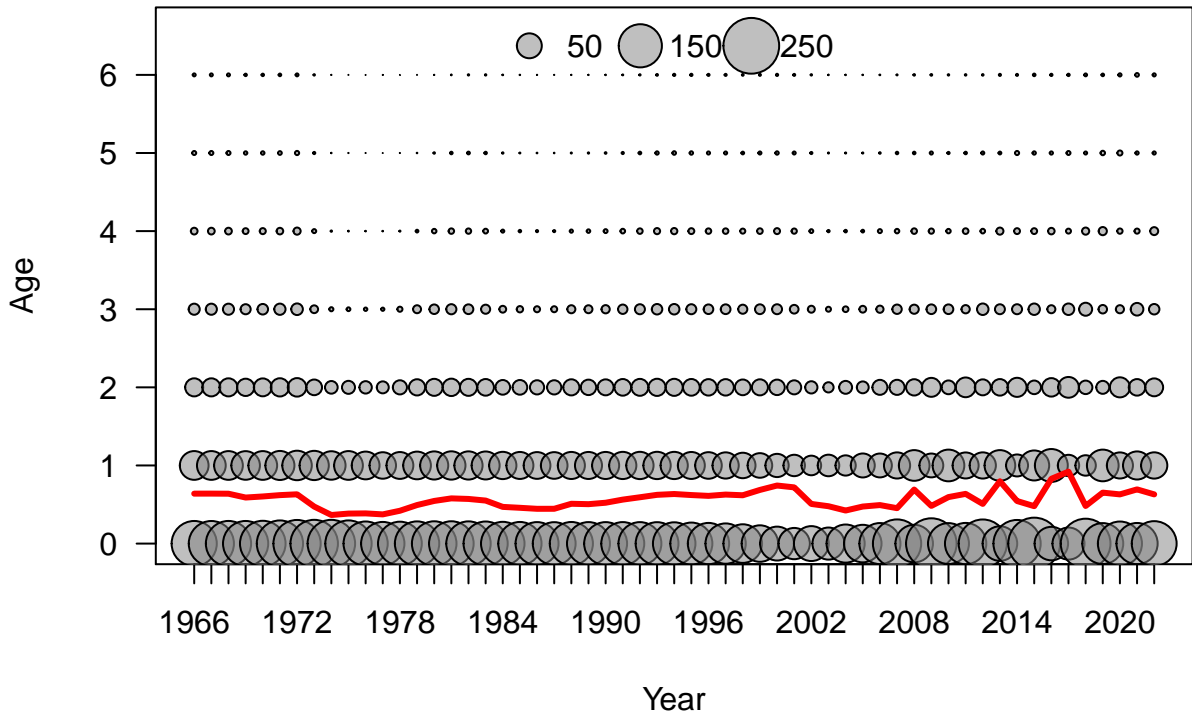


Residual

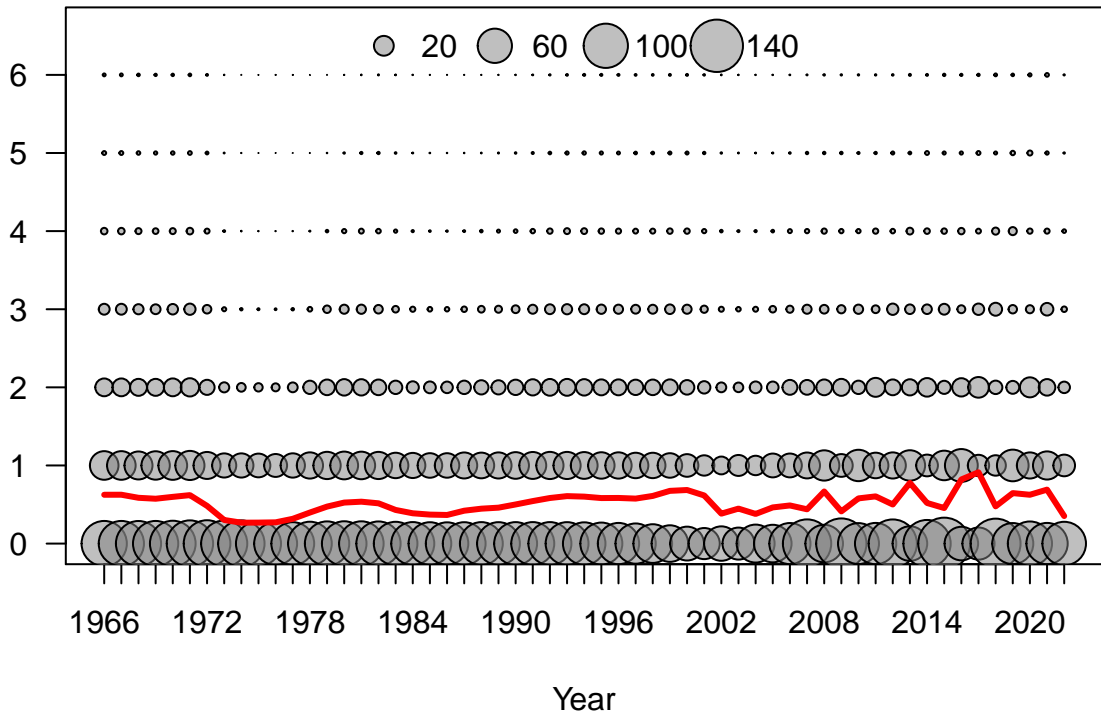


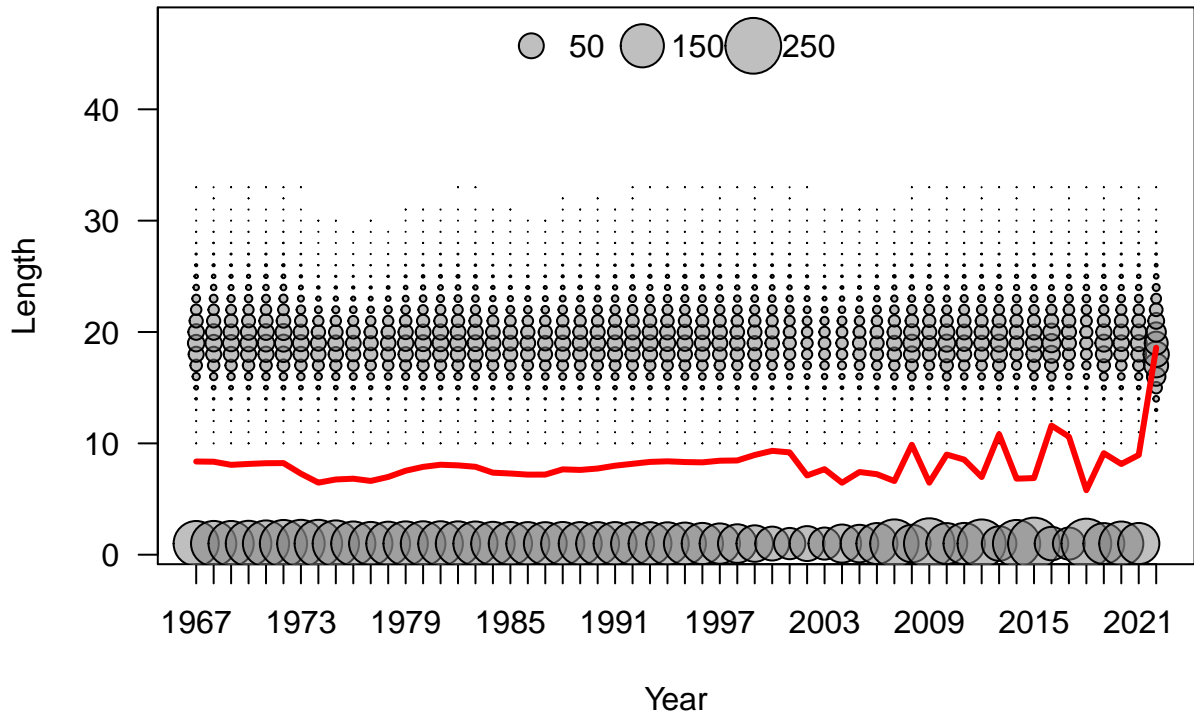


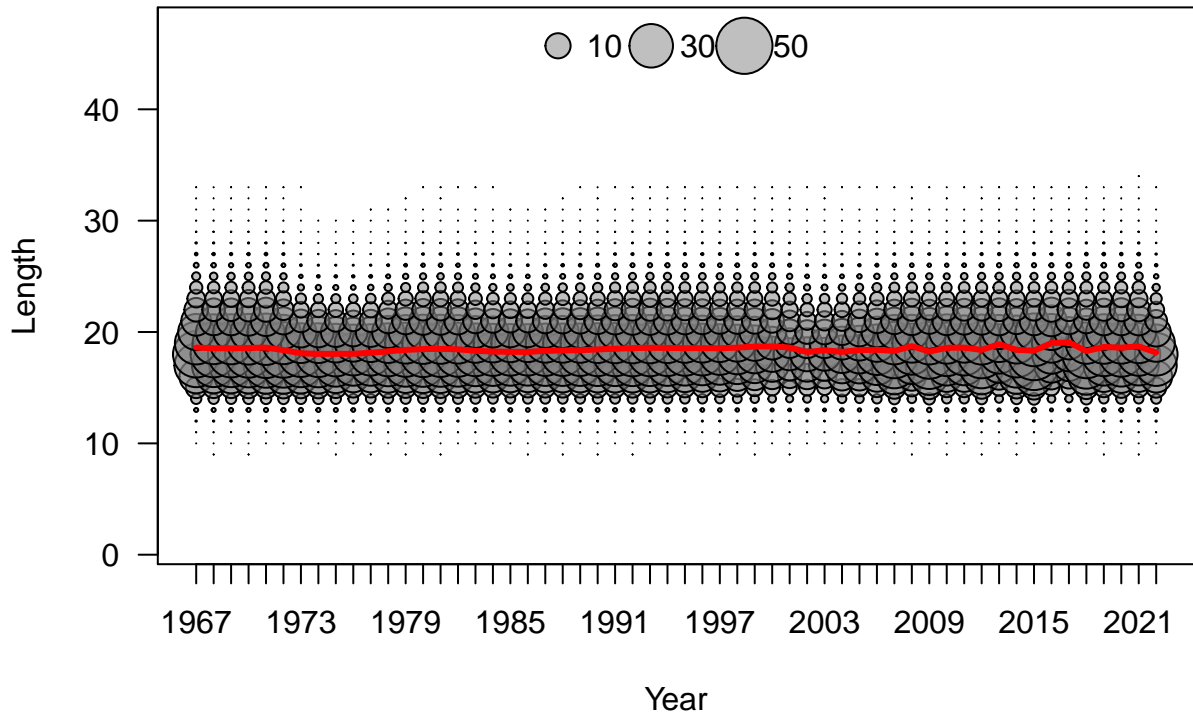


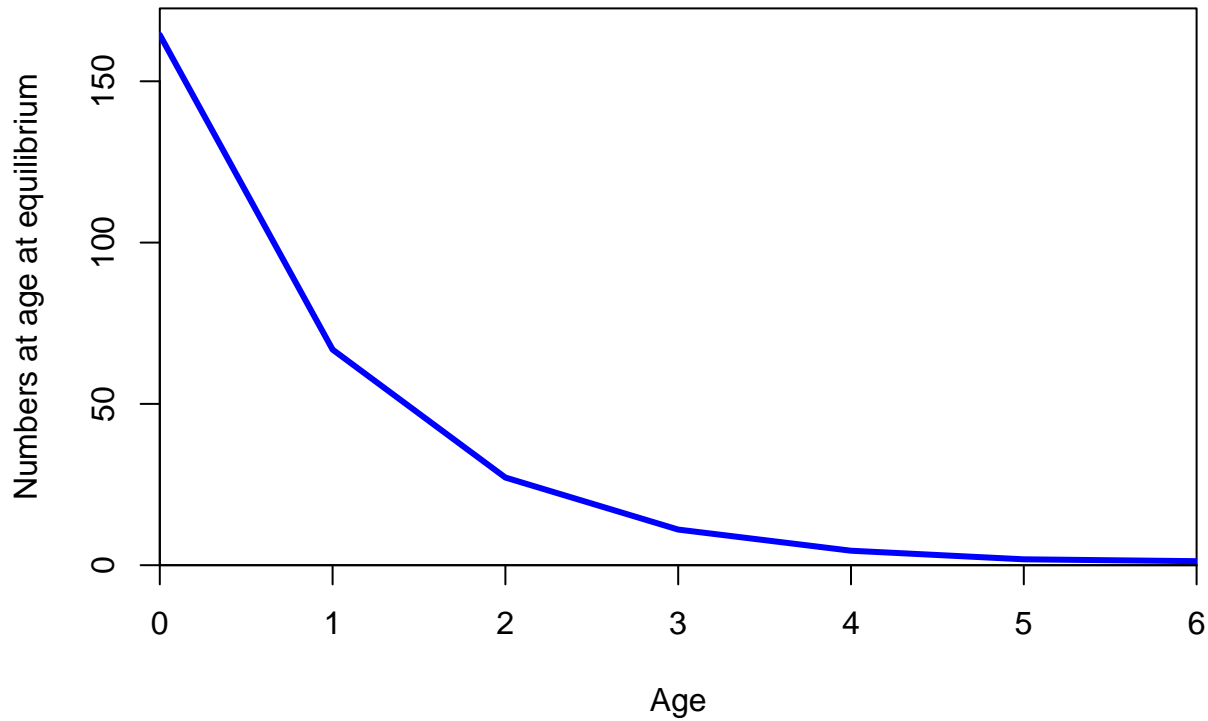


Age



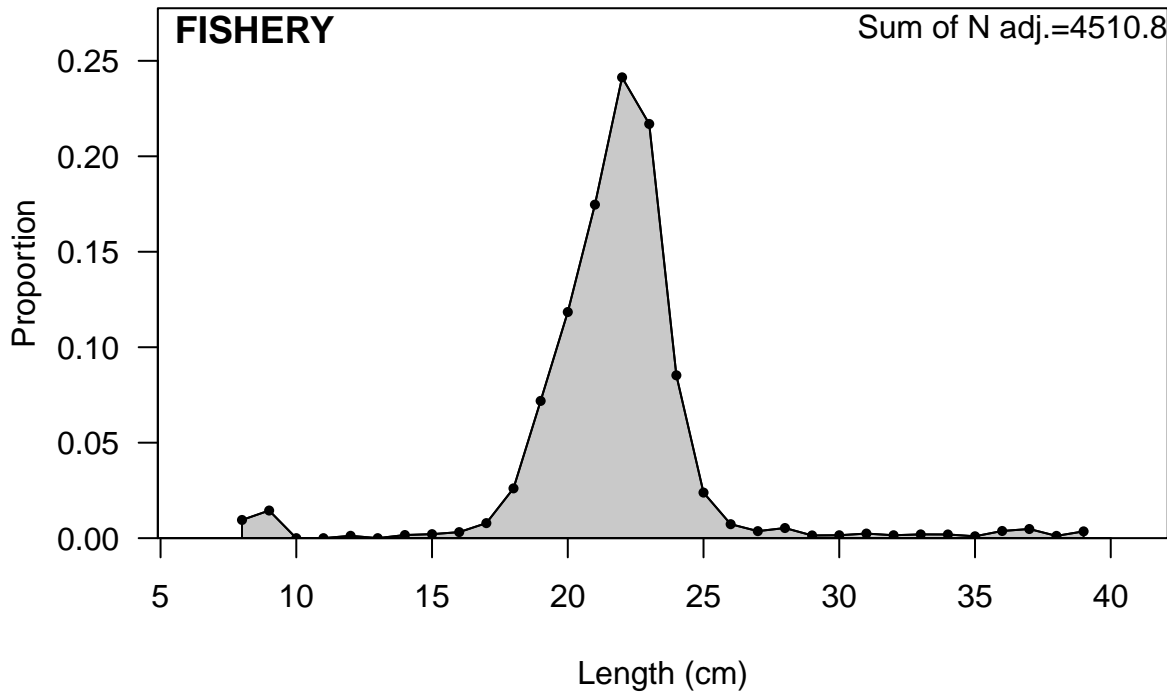


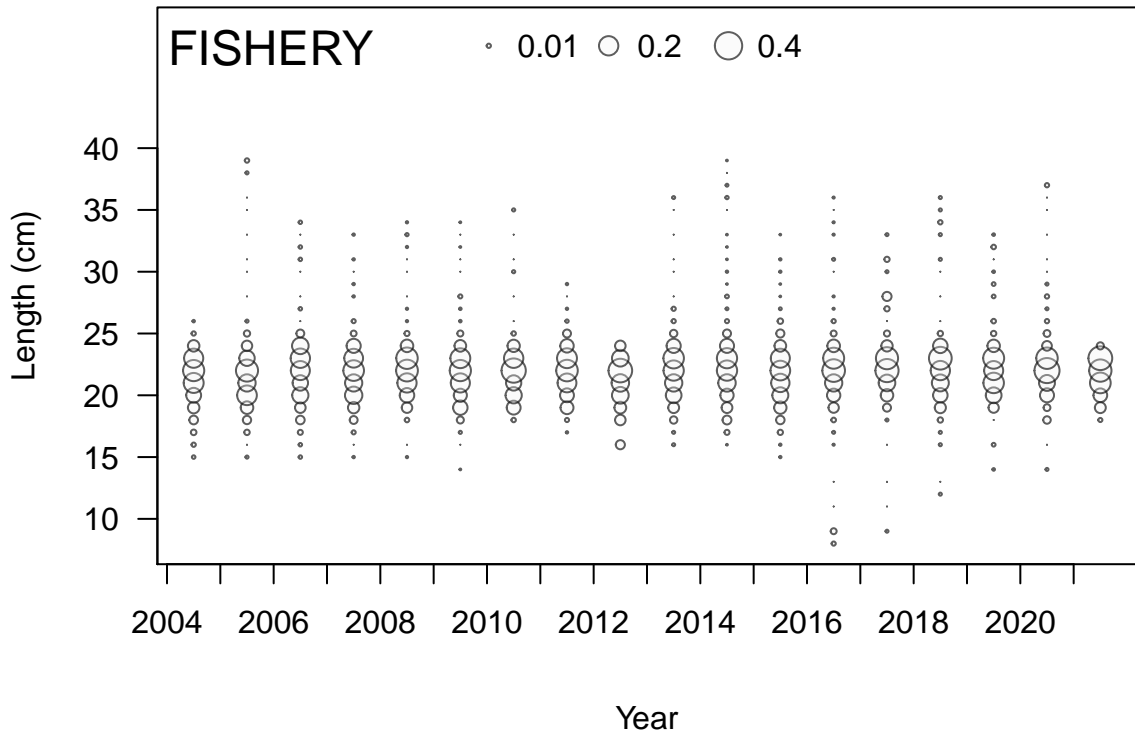




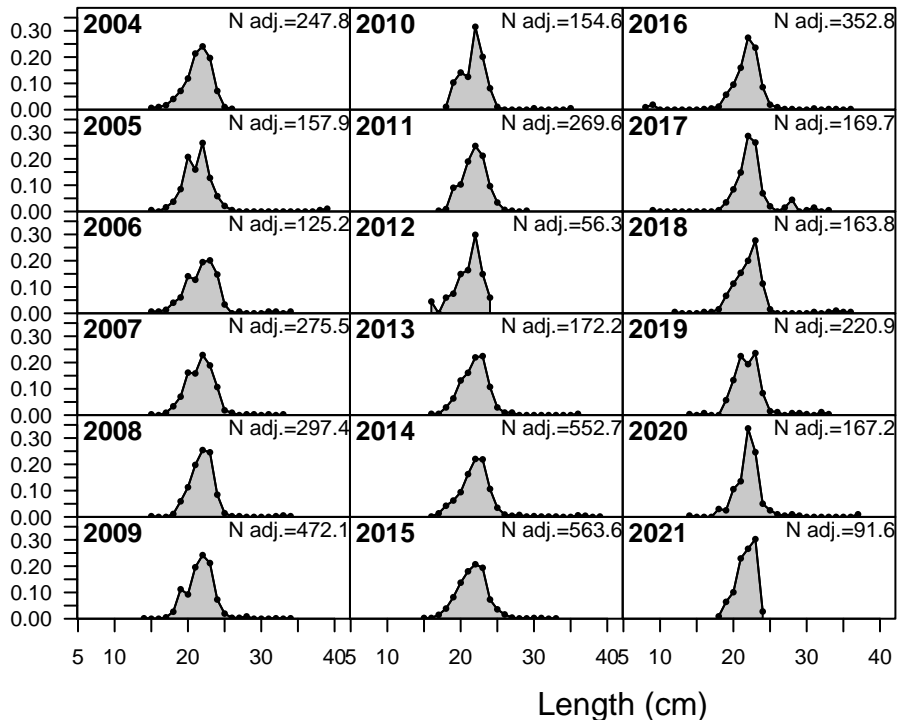
FISHERY

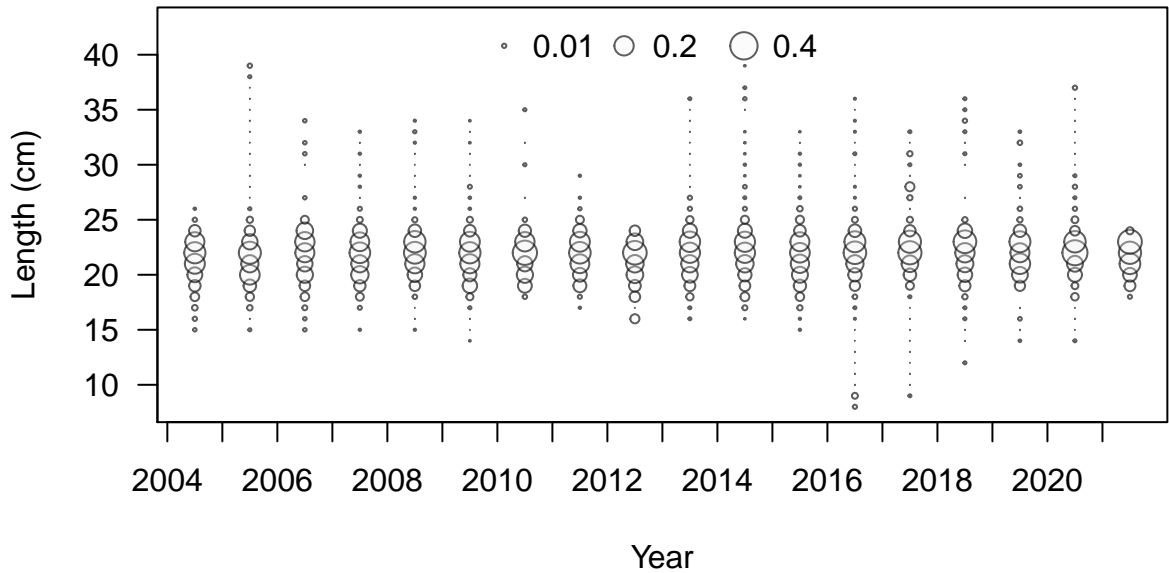
Sum of N adj.=4510.8



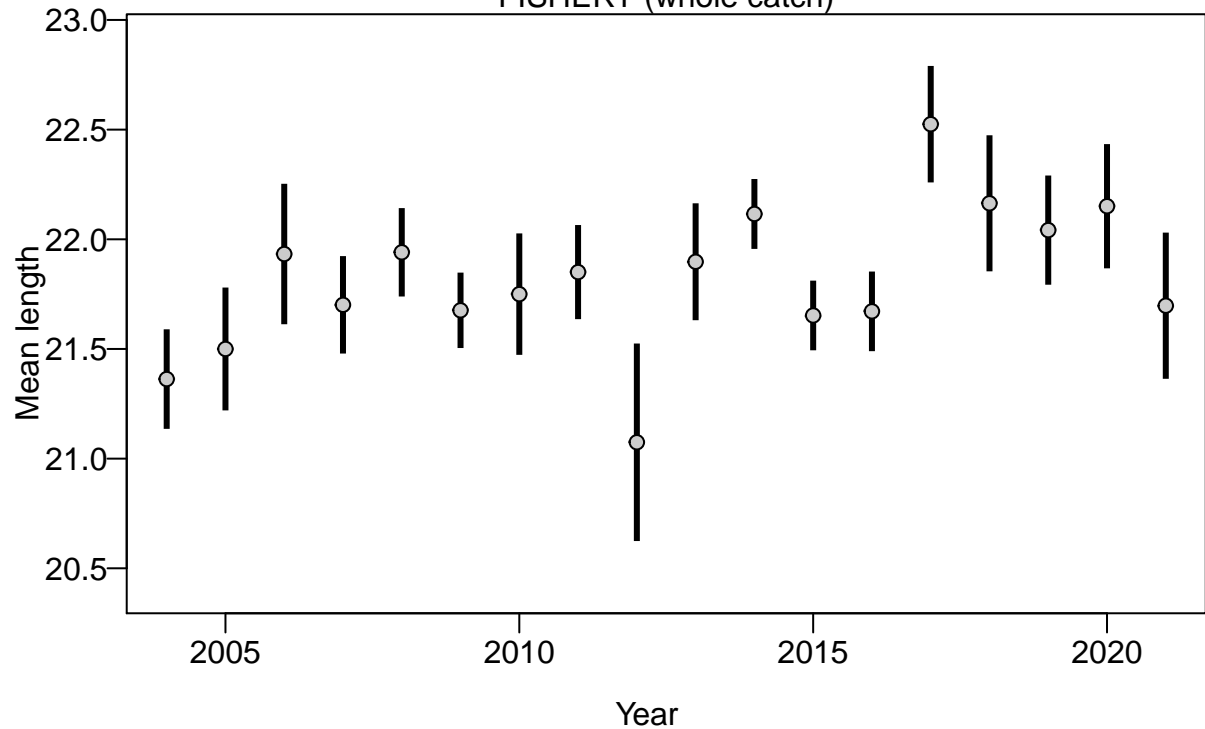


Proportion



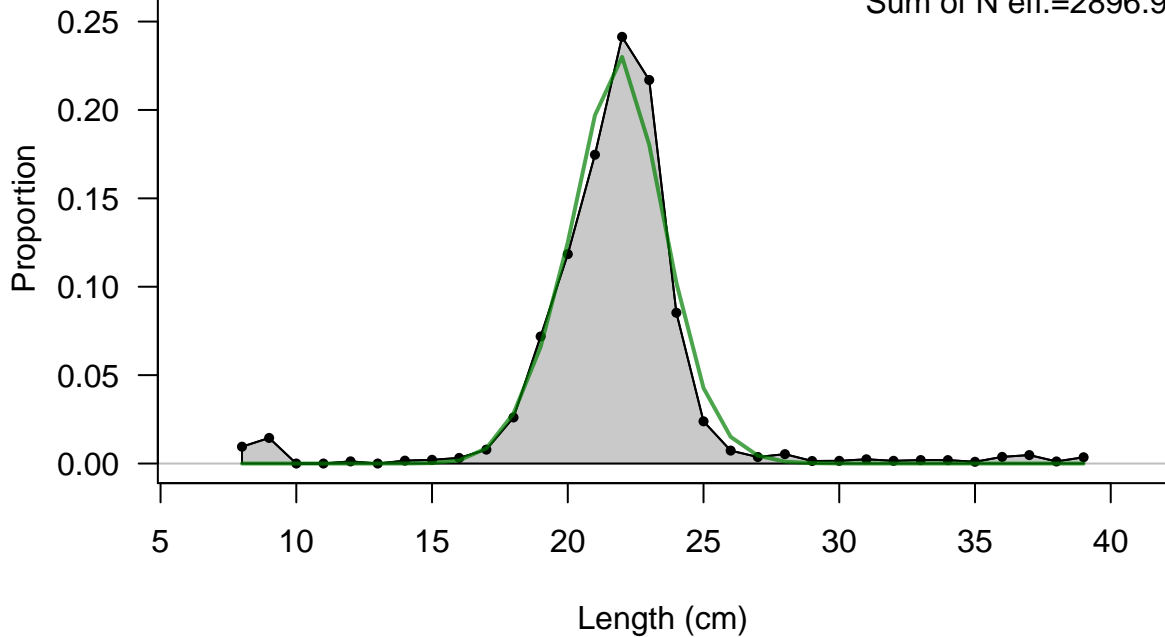


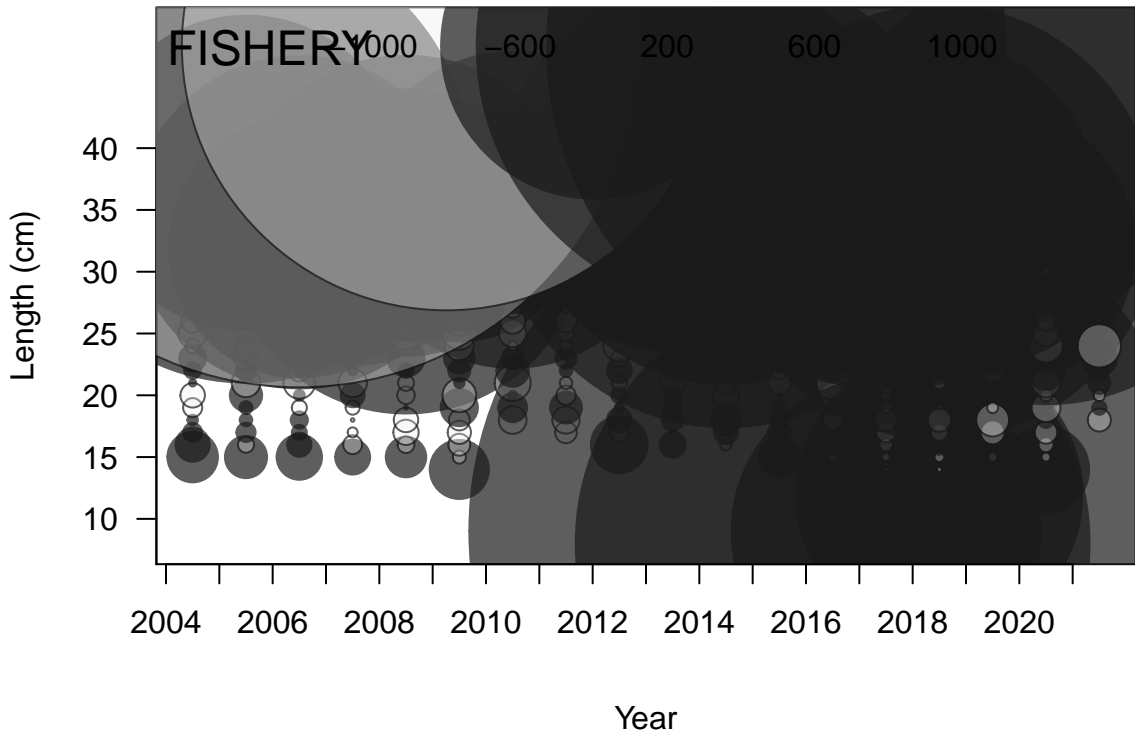
FISHERY (whole catch)

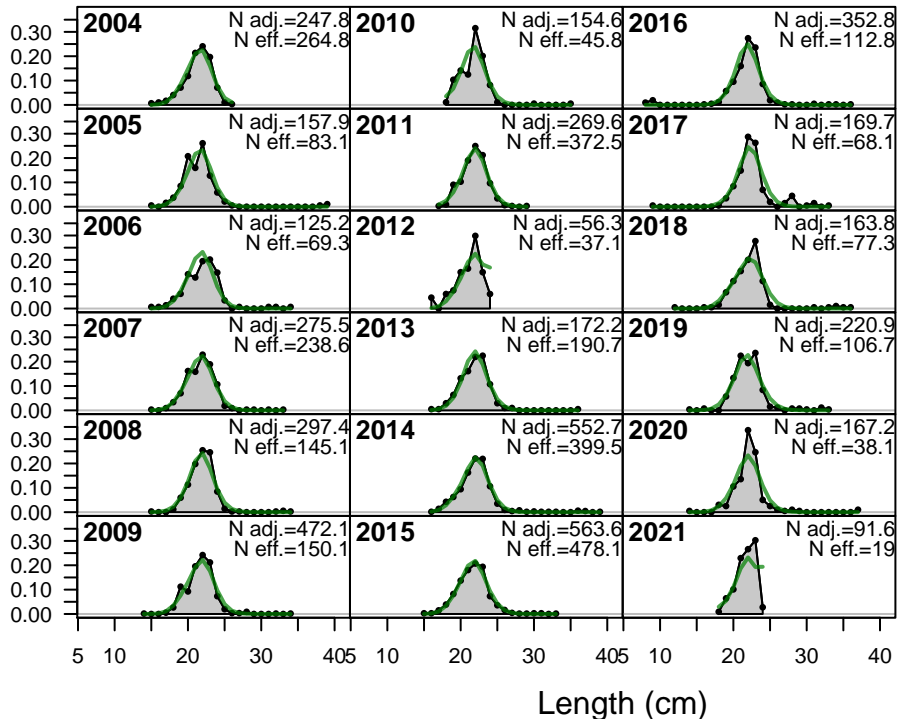


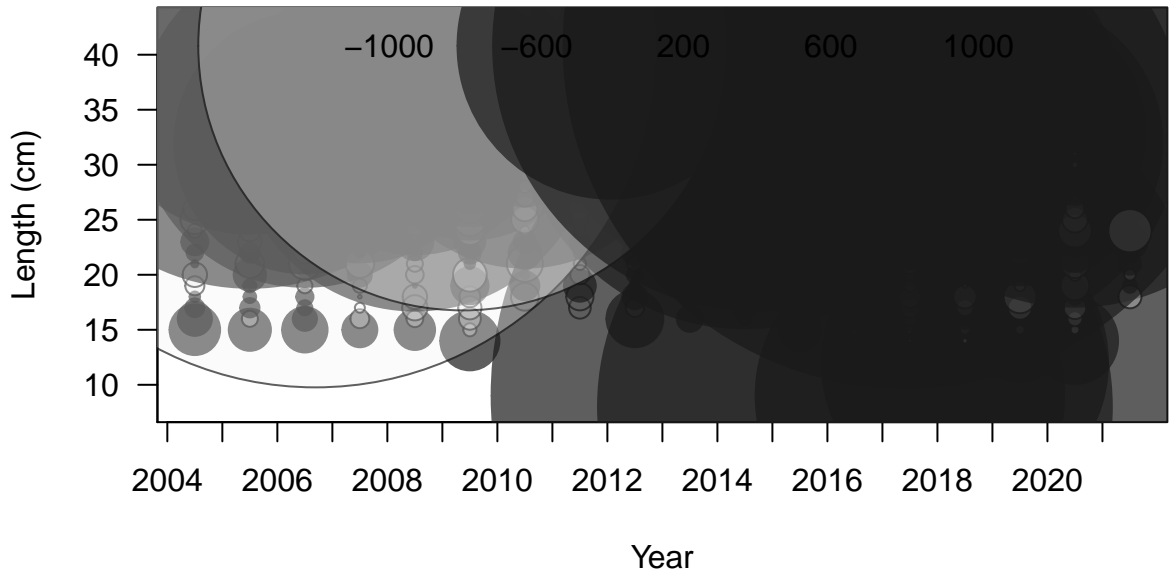
FISHERY

Sum of N adj.=4510.8
Sum of N eff.=2896.9

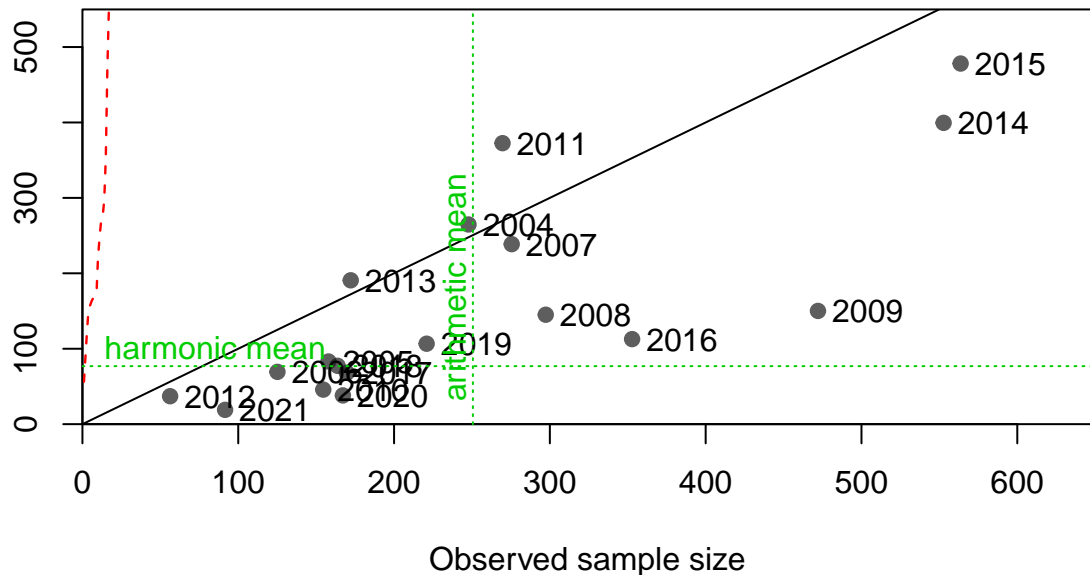




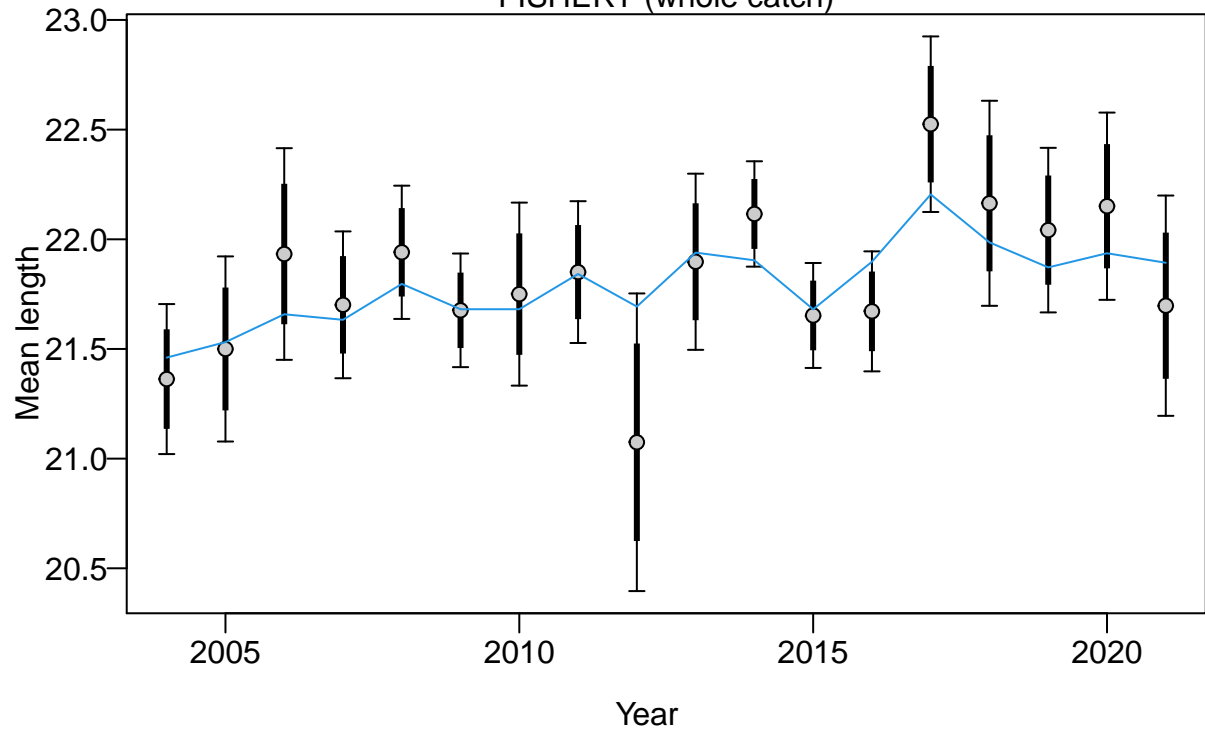


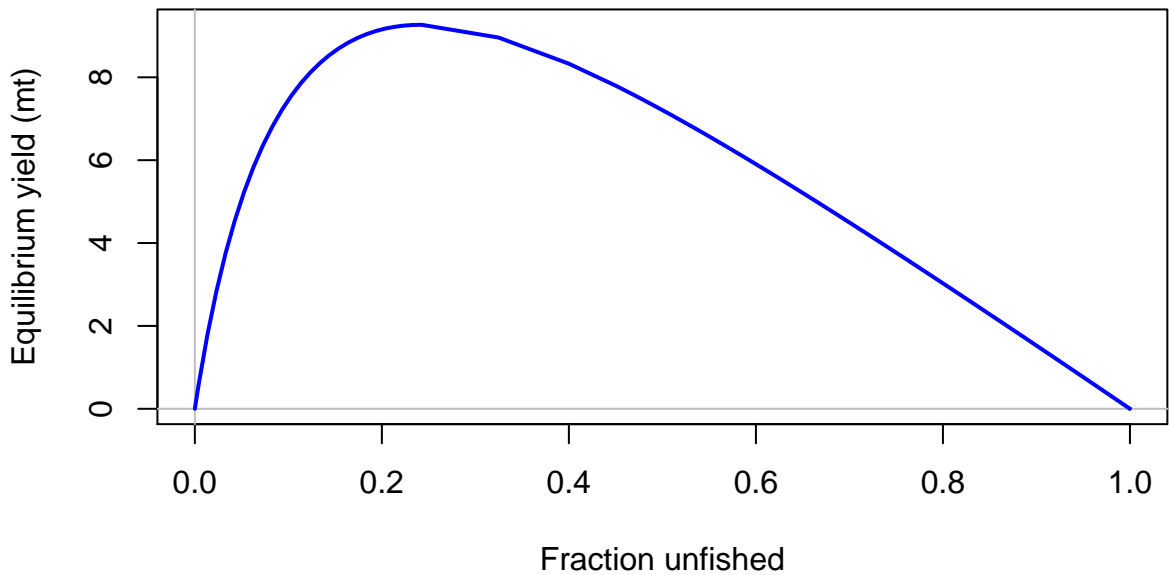


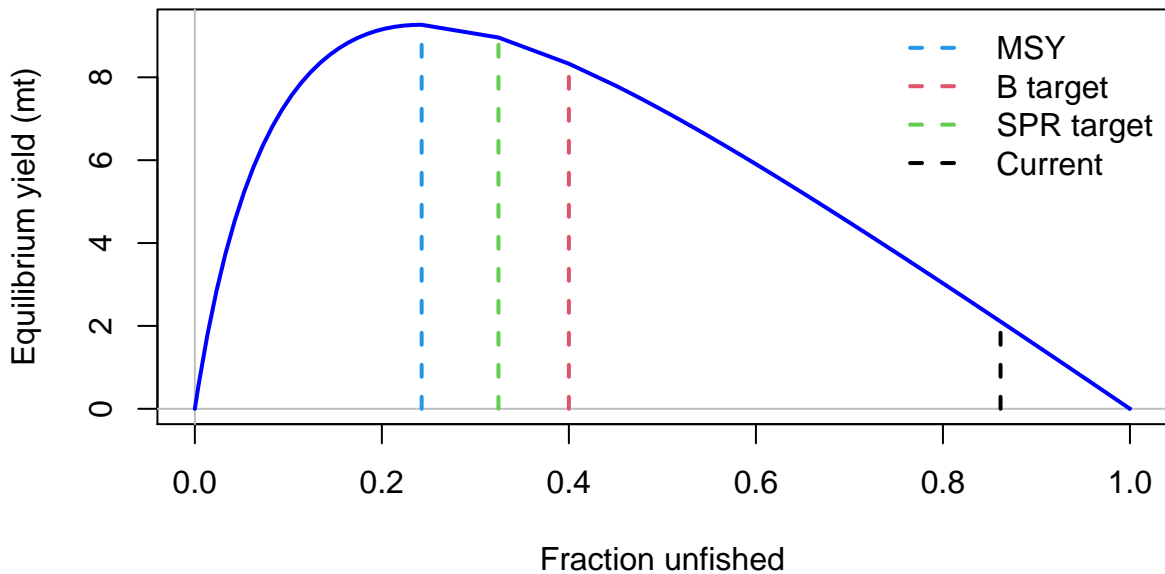
Effective sample size

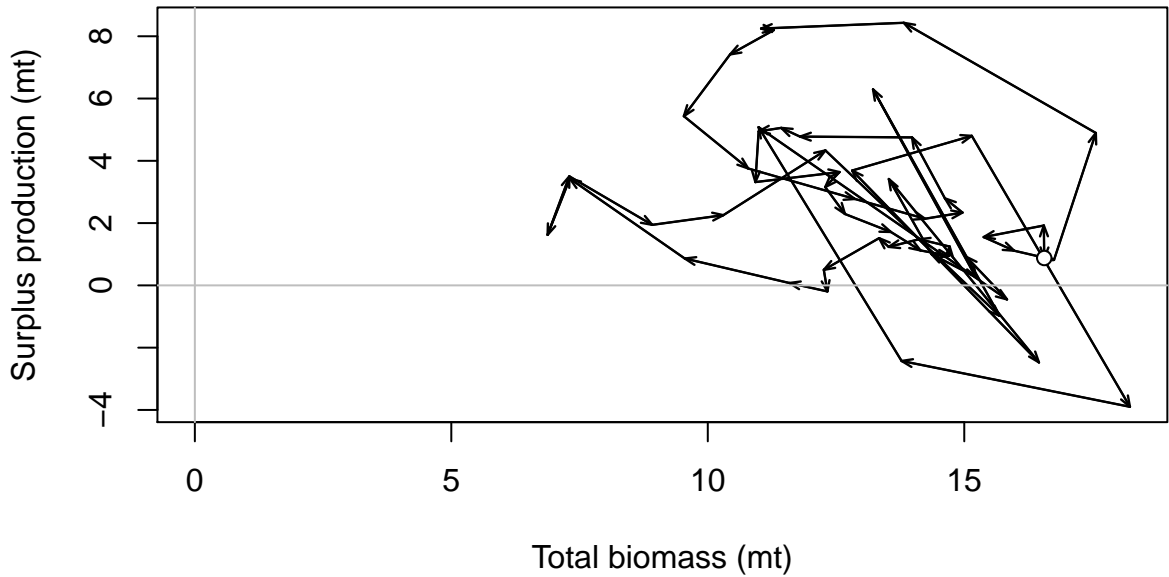


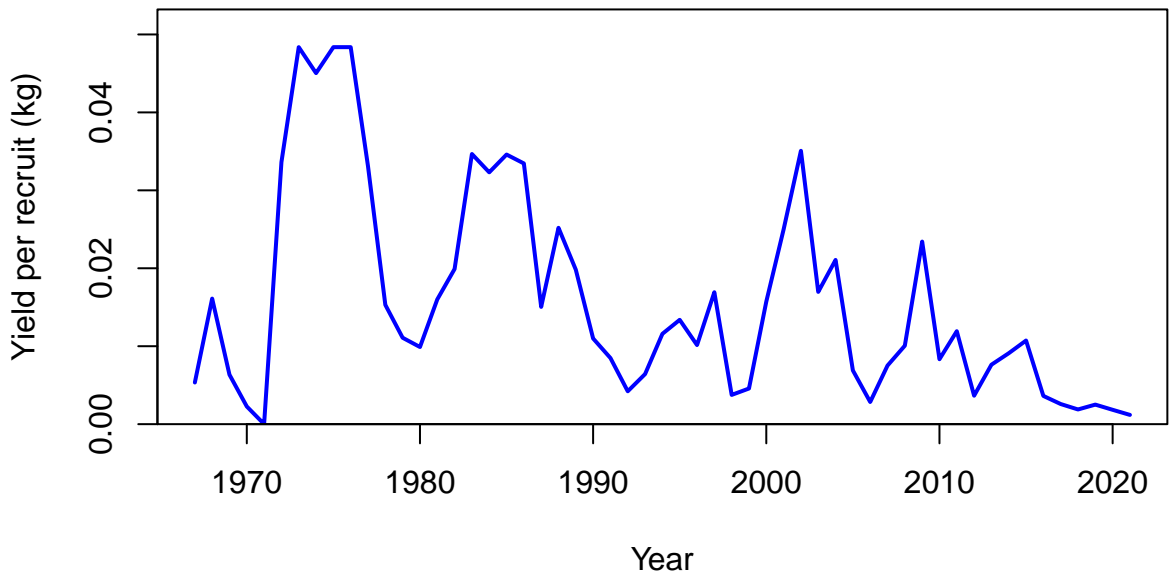
FISHERY (whole catch)

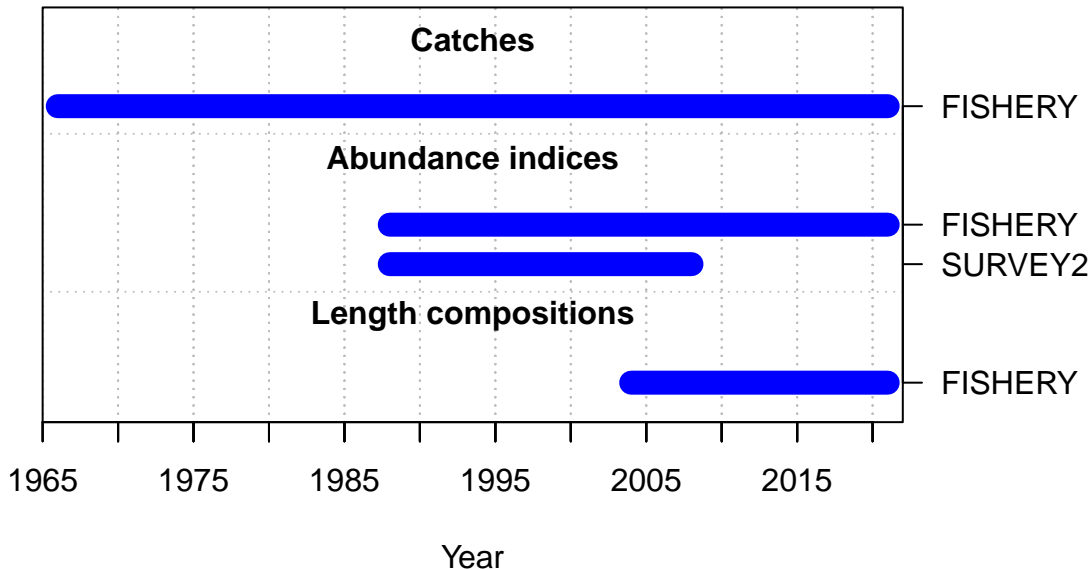


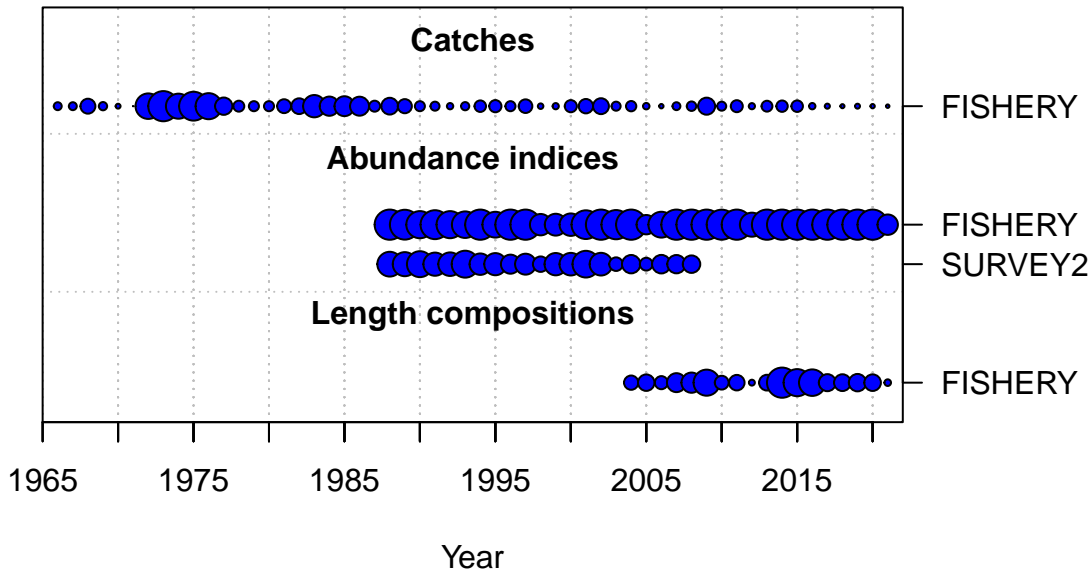






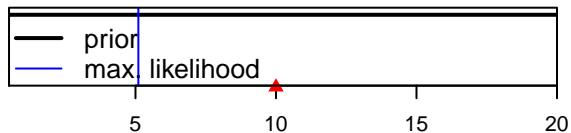




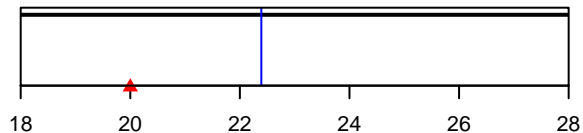


Density

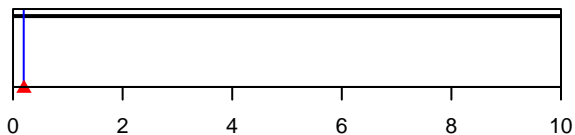
SR_LN(R0)



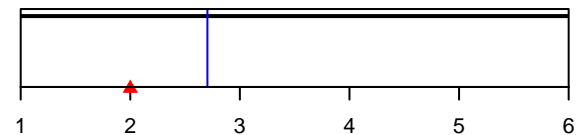
Size_inflection_FISHERY(1)



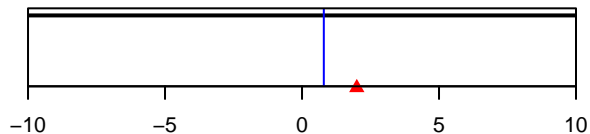
InitF_seas_1_flt_1FISHERY



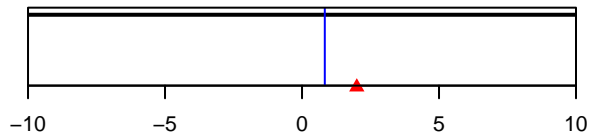
Size_95%width_FISHERY(1)



LnQ_base_FISHERY(1)



LnQ_base_SURVEY2(2)



Parameter value