

Plots created using the 'r4ss' package in R

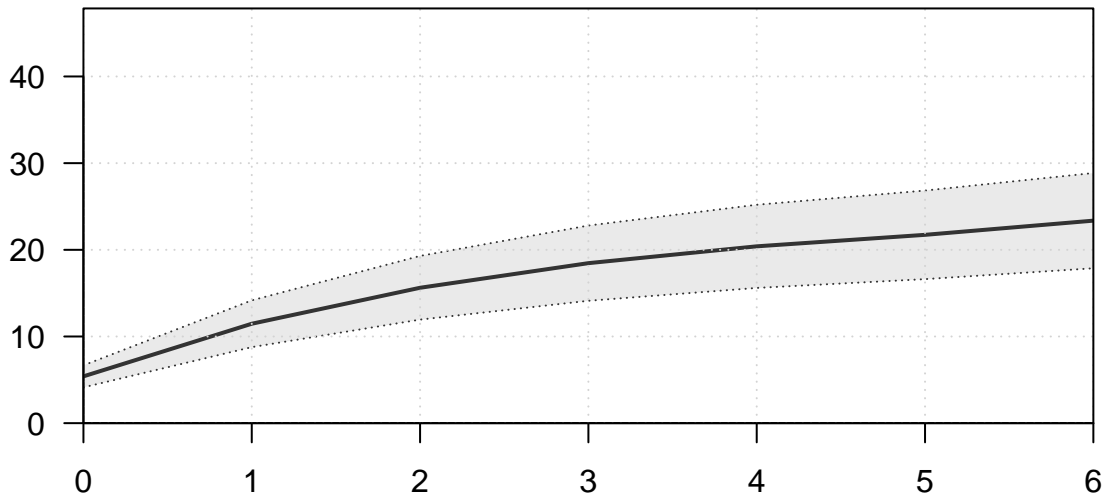
Stock Synthesis version: 3.30.19.0

StartTime: Fri Jul 22 14:15:08 2022

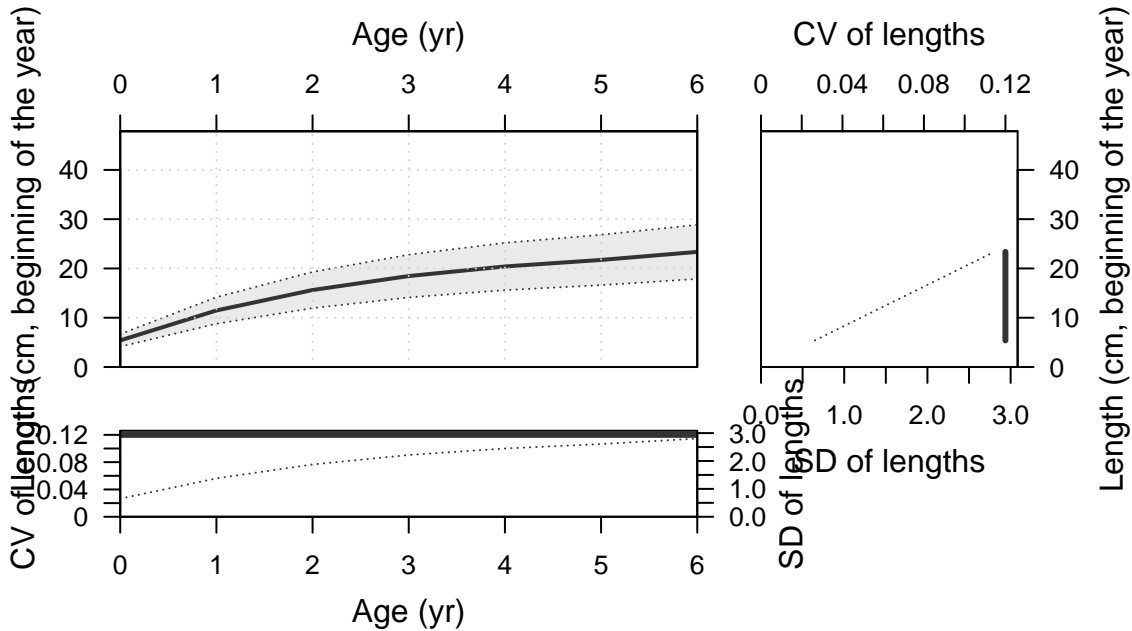
Data_File: data.ss

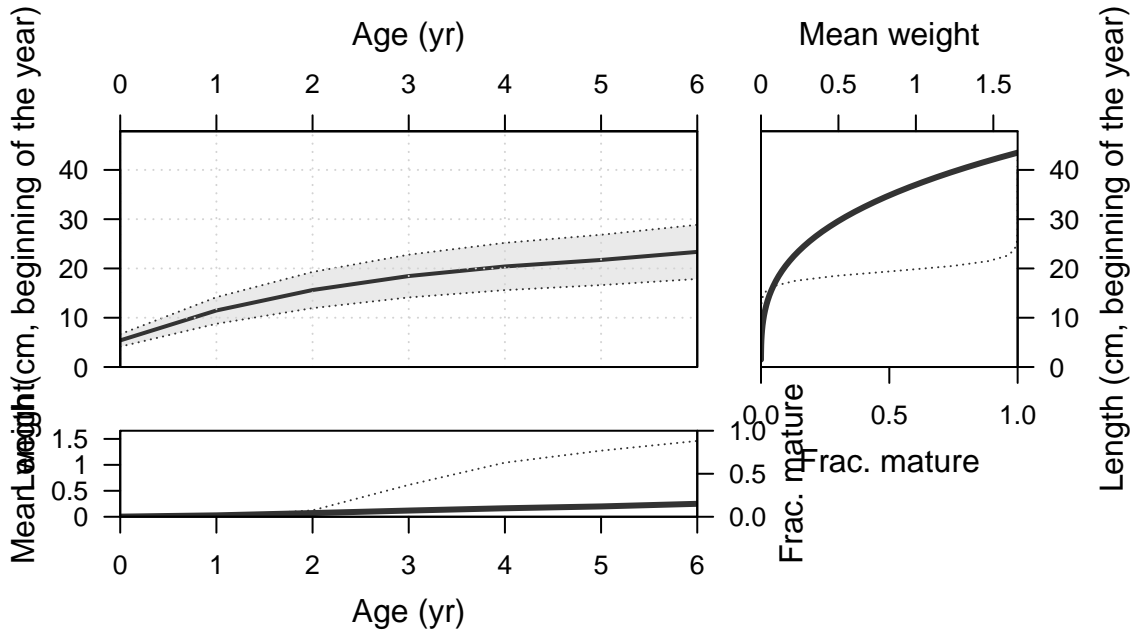
Control_File: control.ss

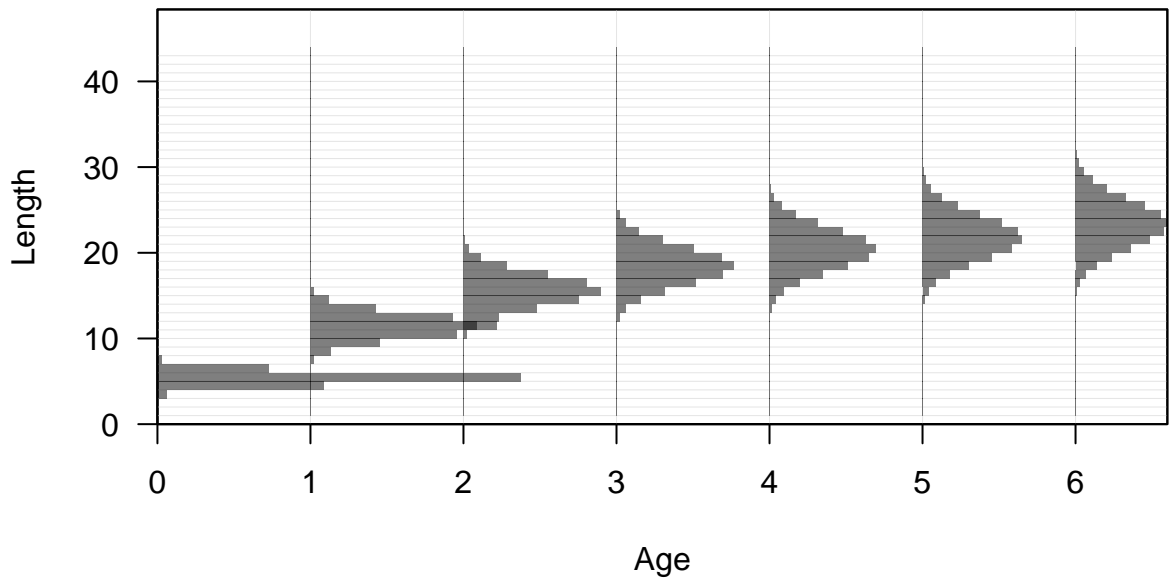
Length (cm, beginning of the year)

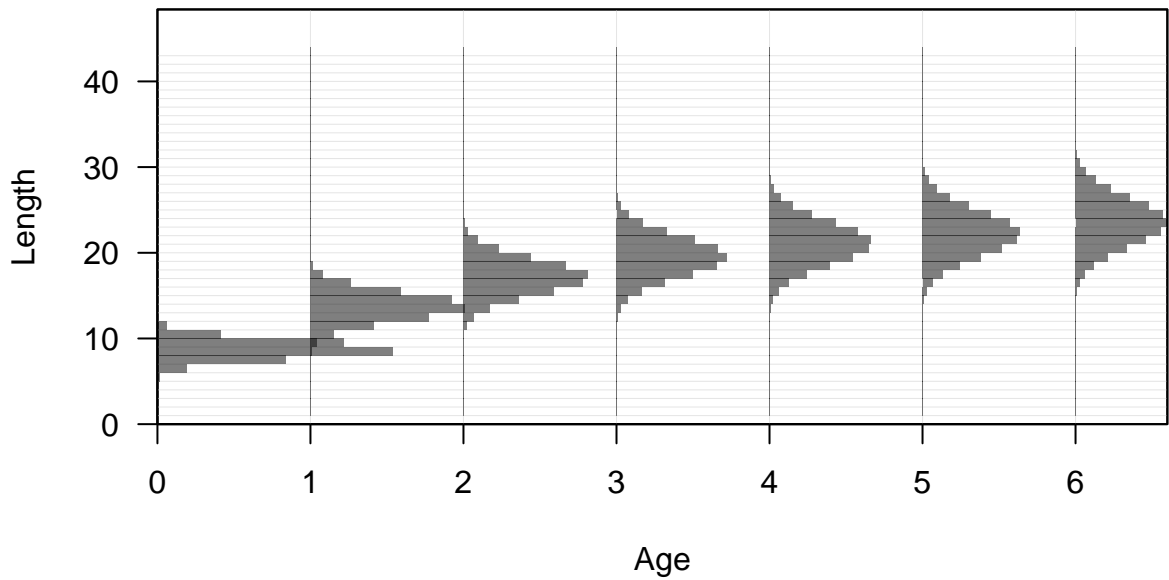


Age (yr)

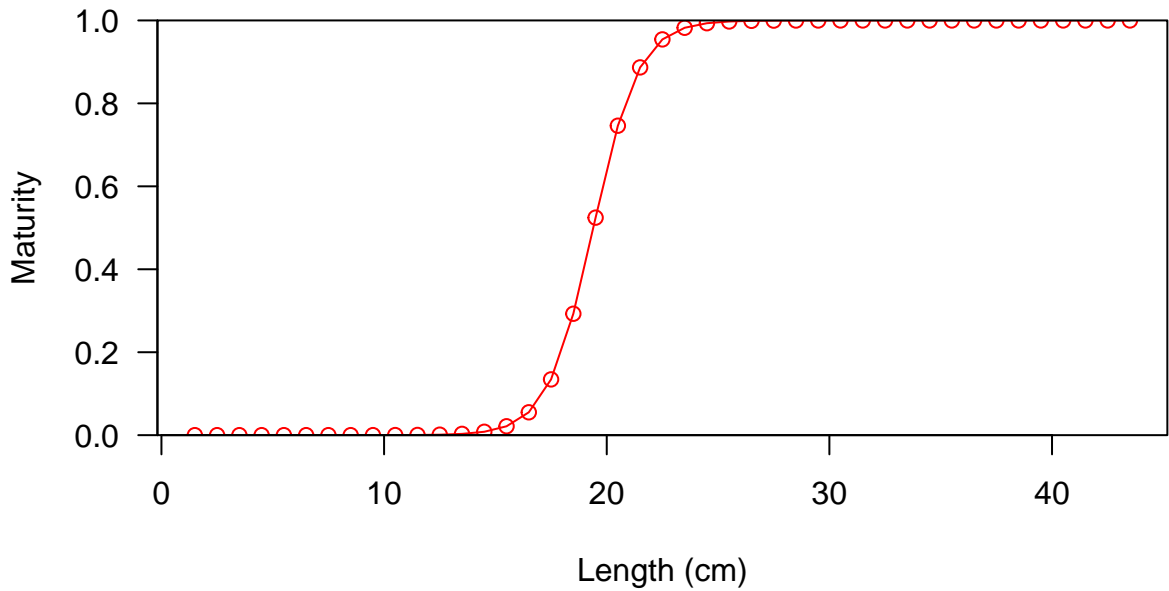








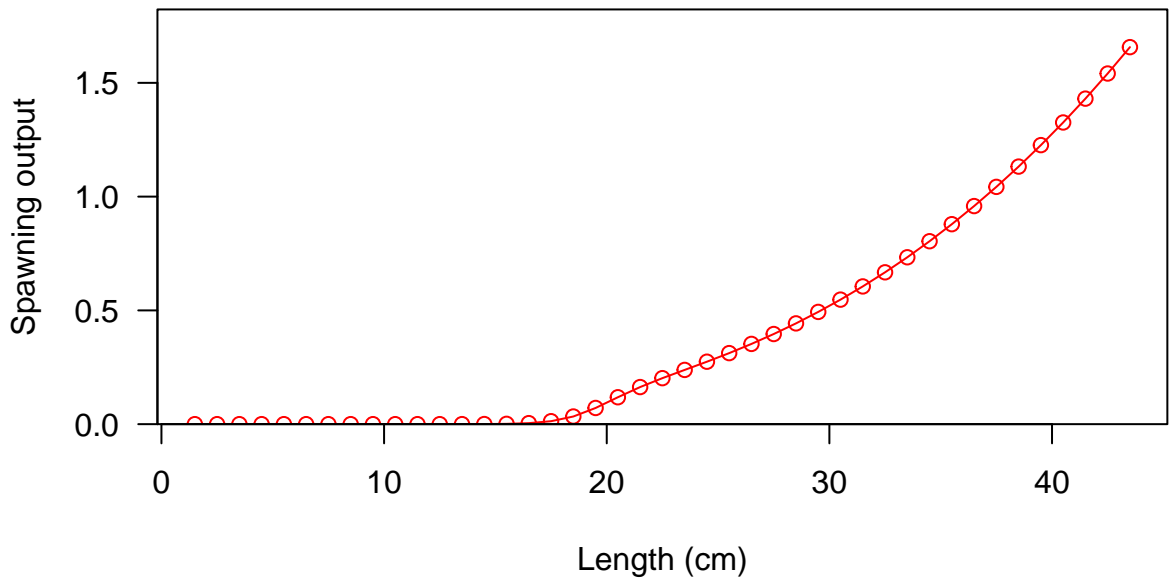


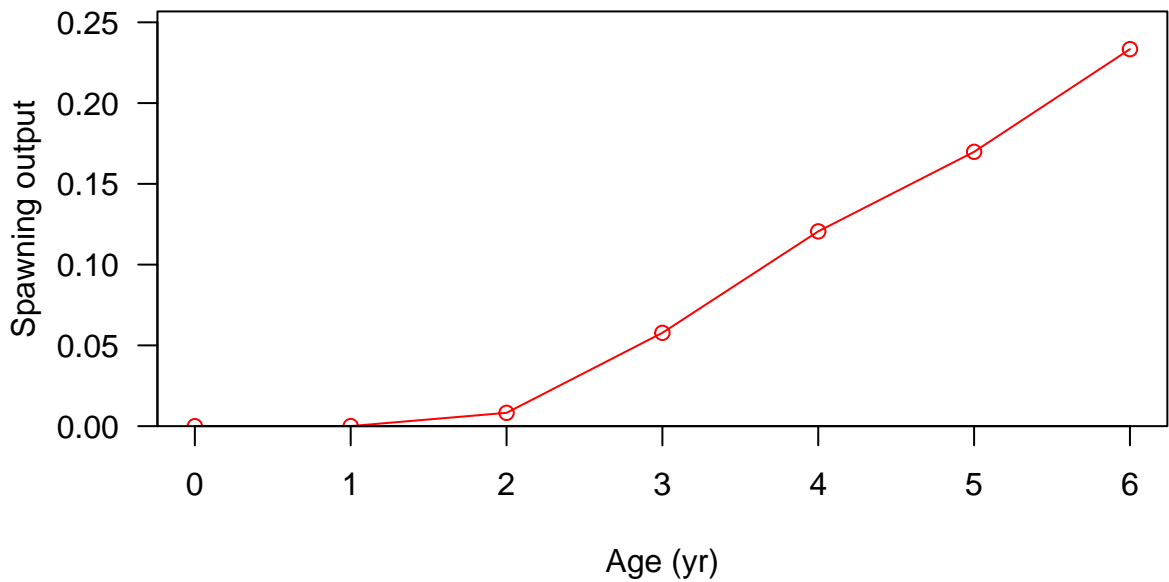




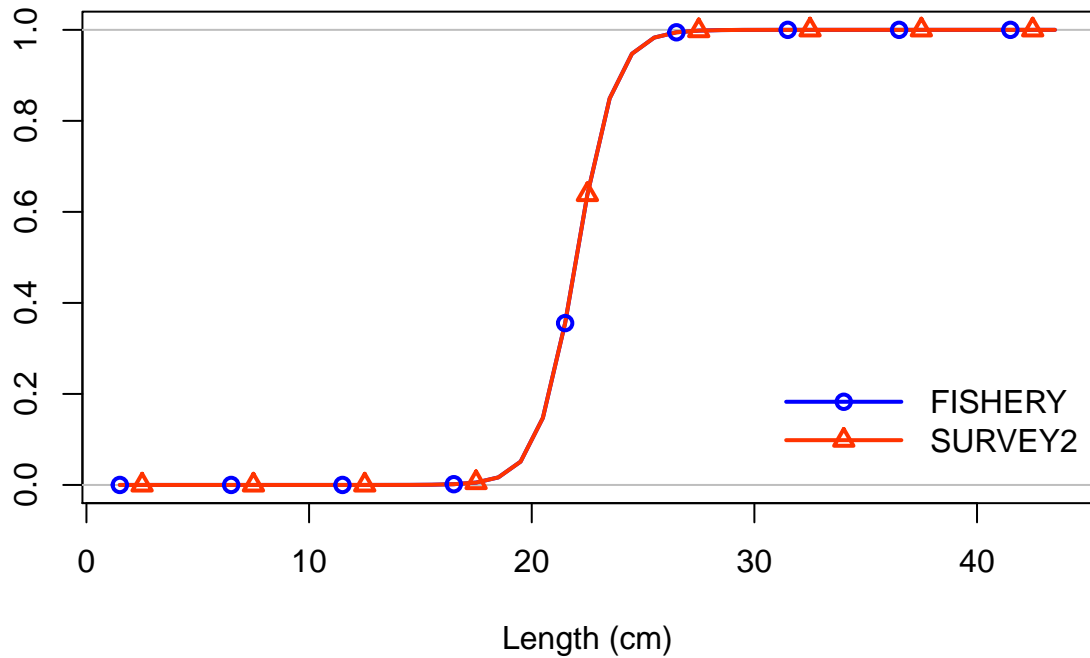




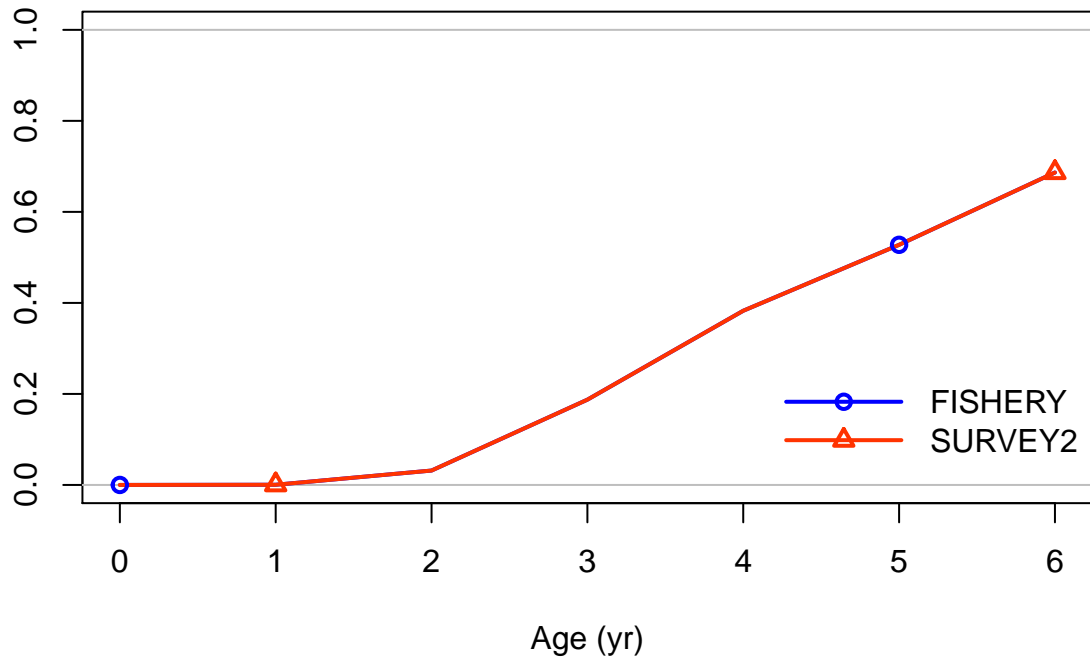




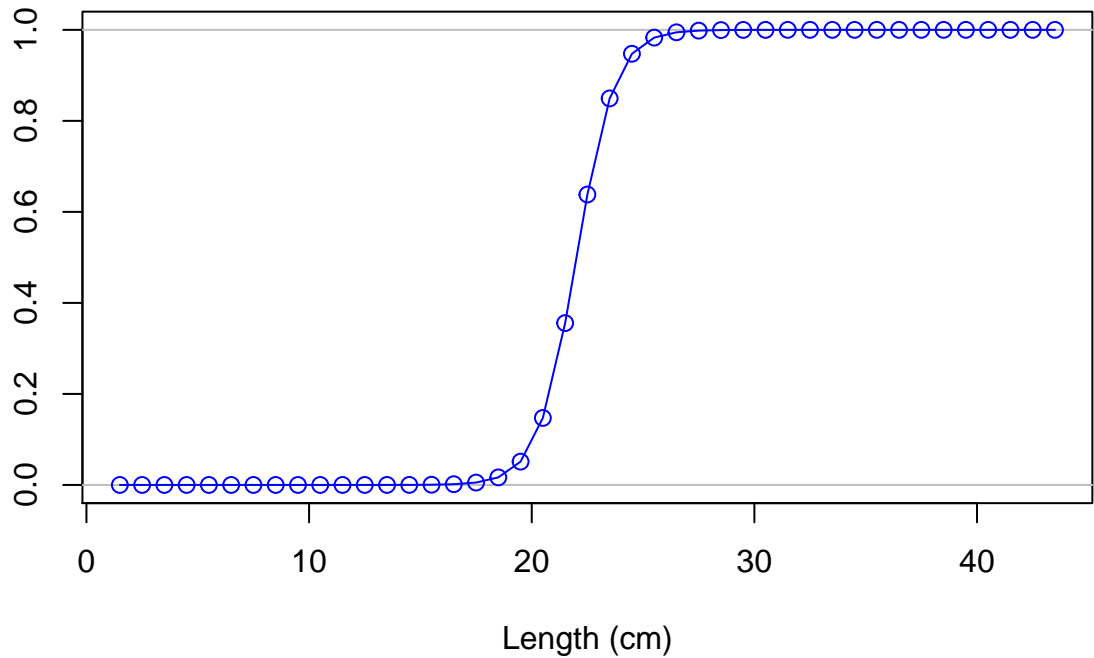
Selectivity



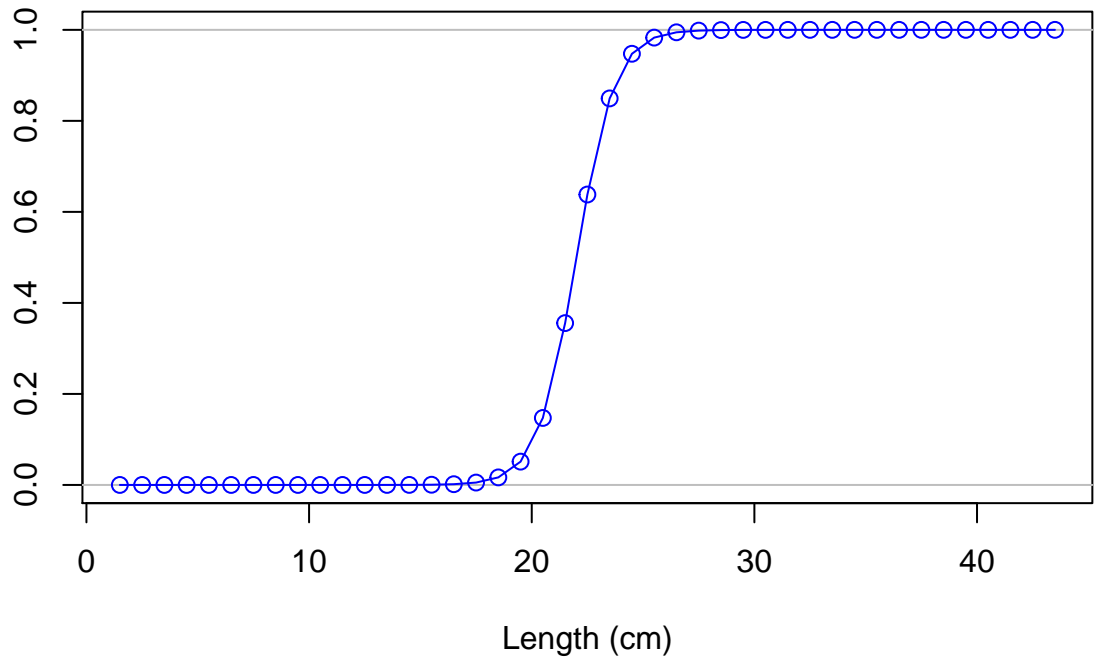
Selectivity

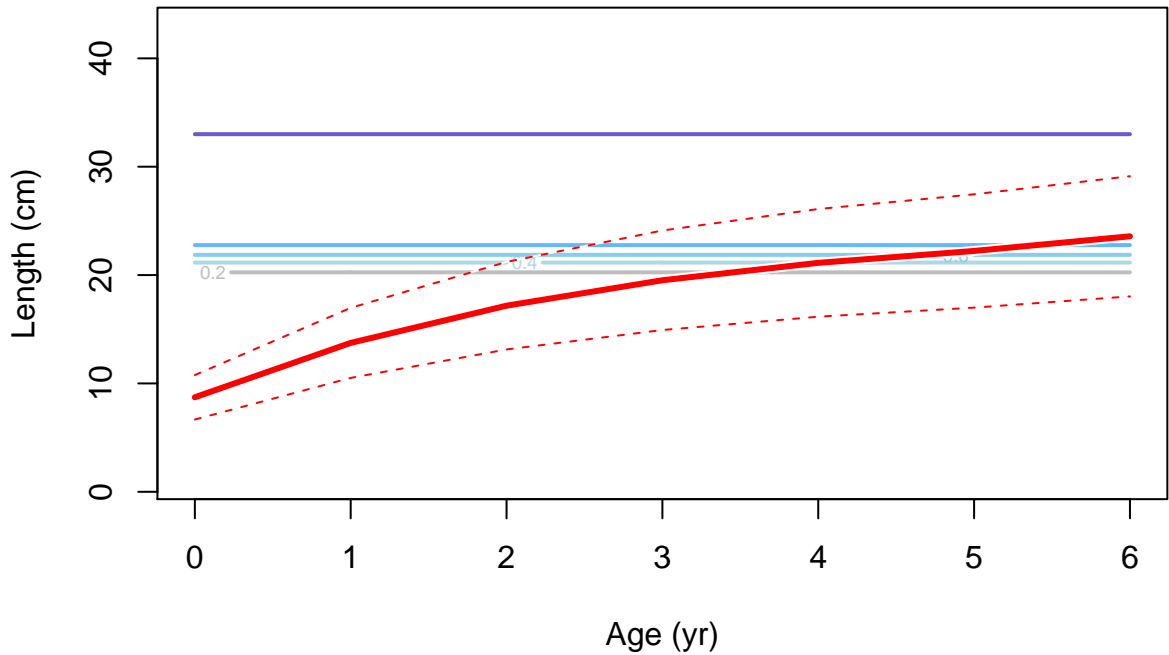


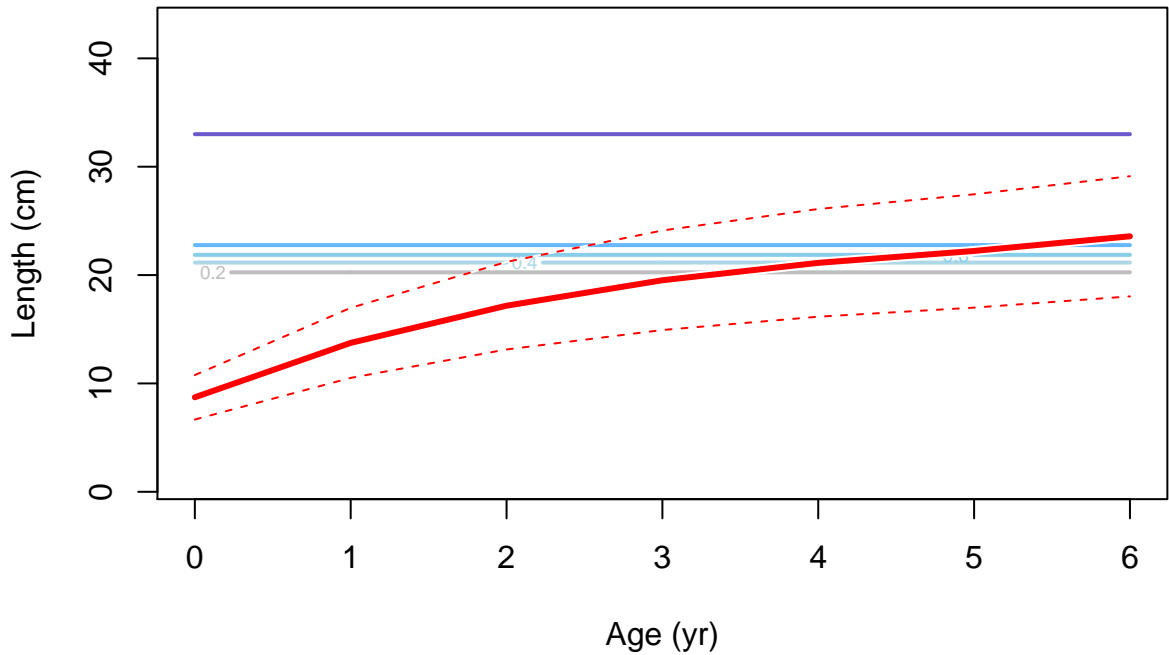
Selectivity



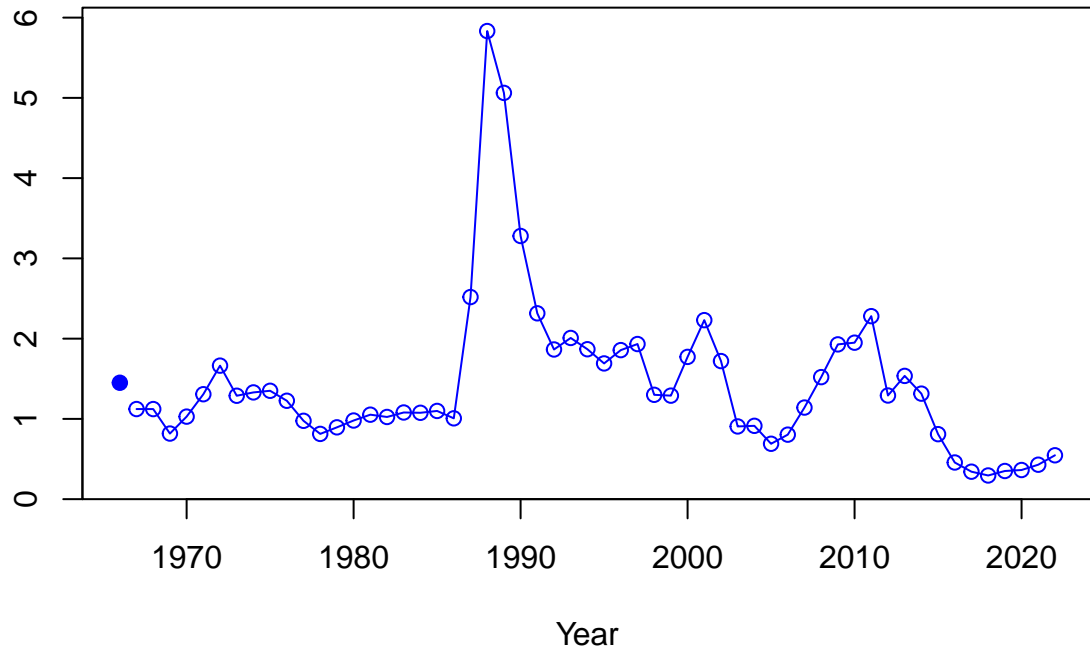
Selectivity



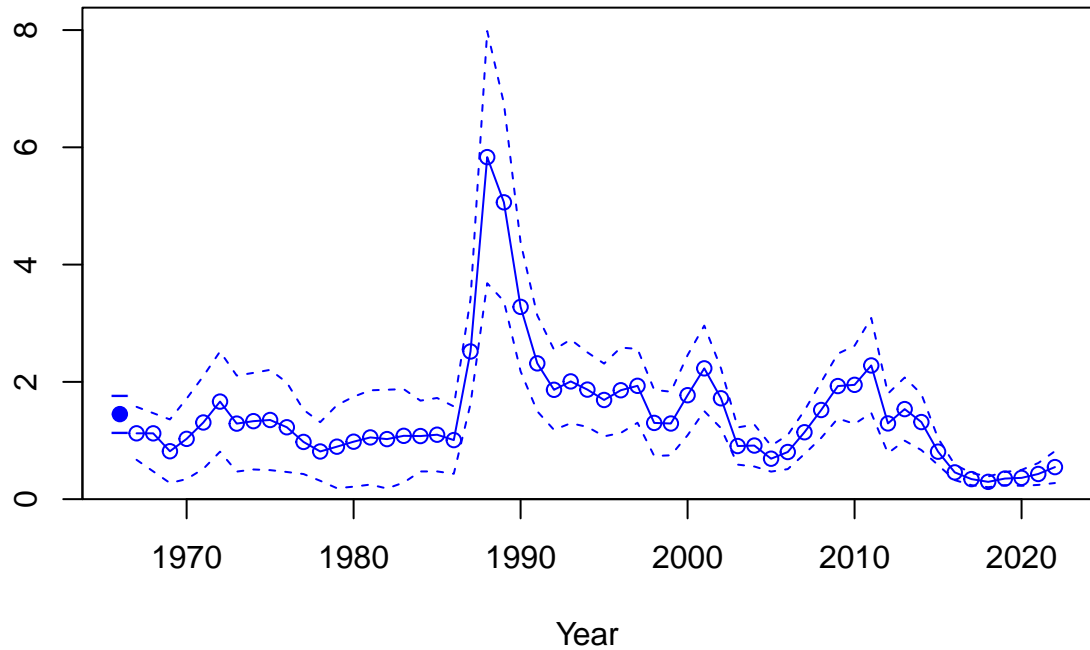




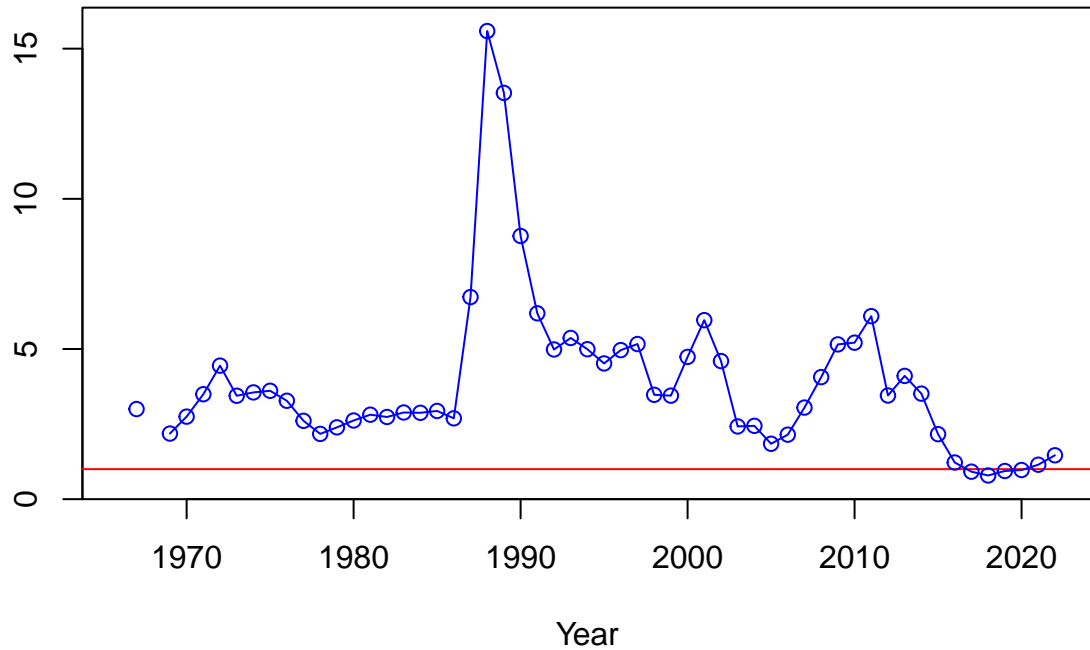
Spawning biomass (mt)



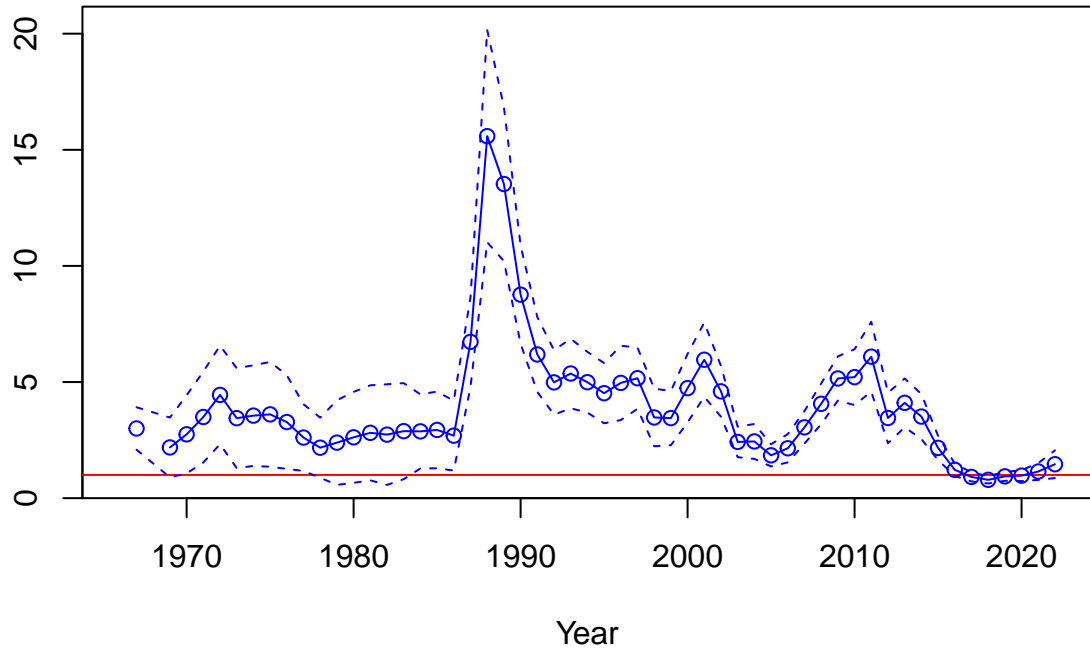
Spawning biomass (mt)

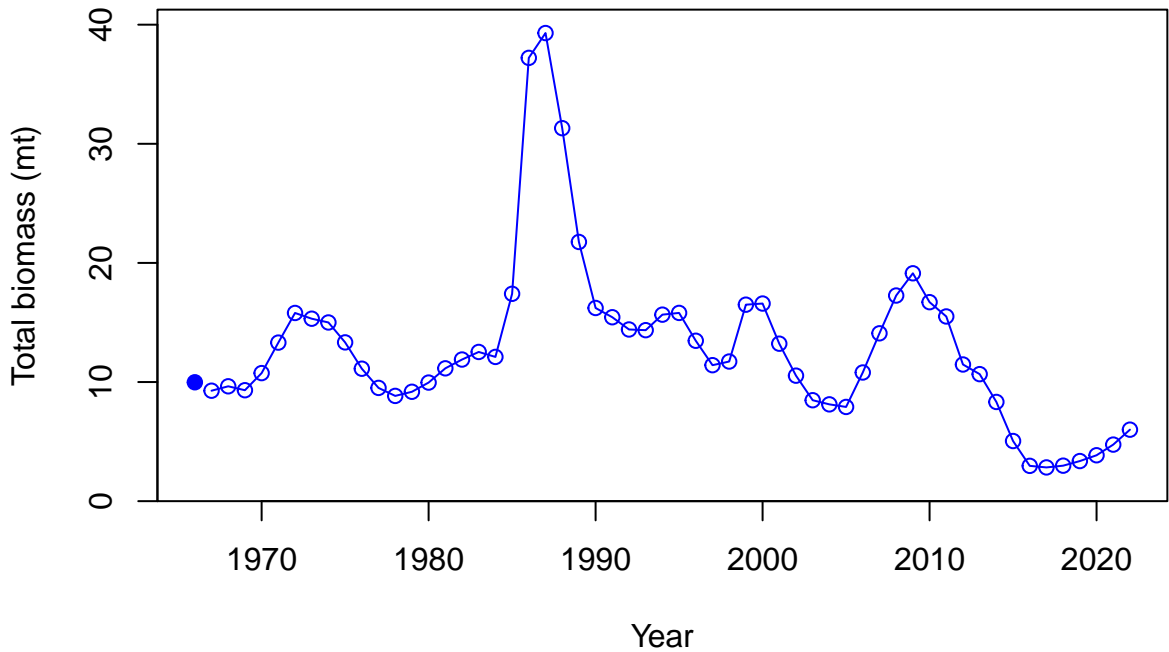


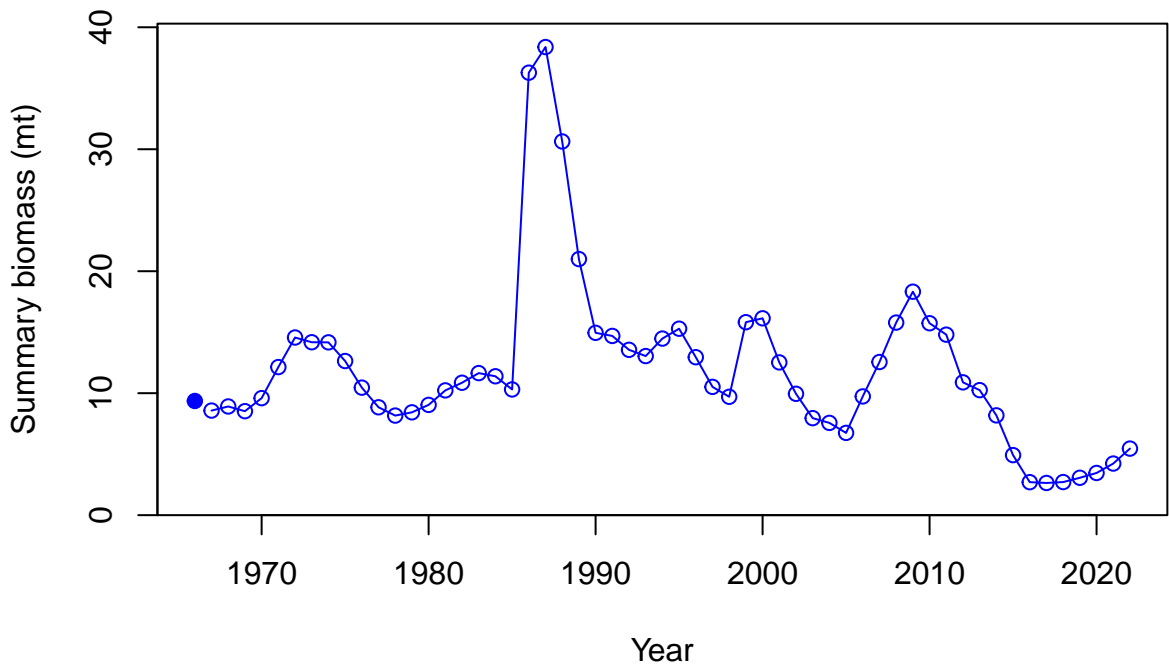
Relative spawning biomass: B/B_{MSY}



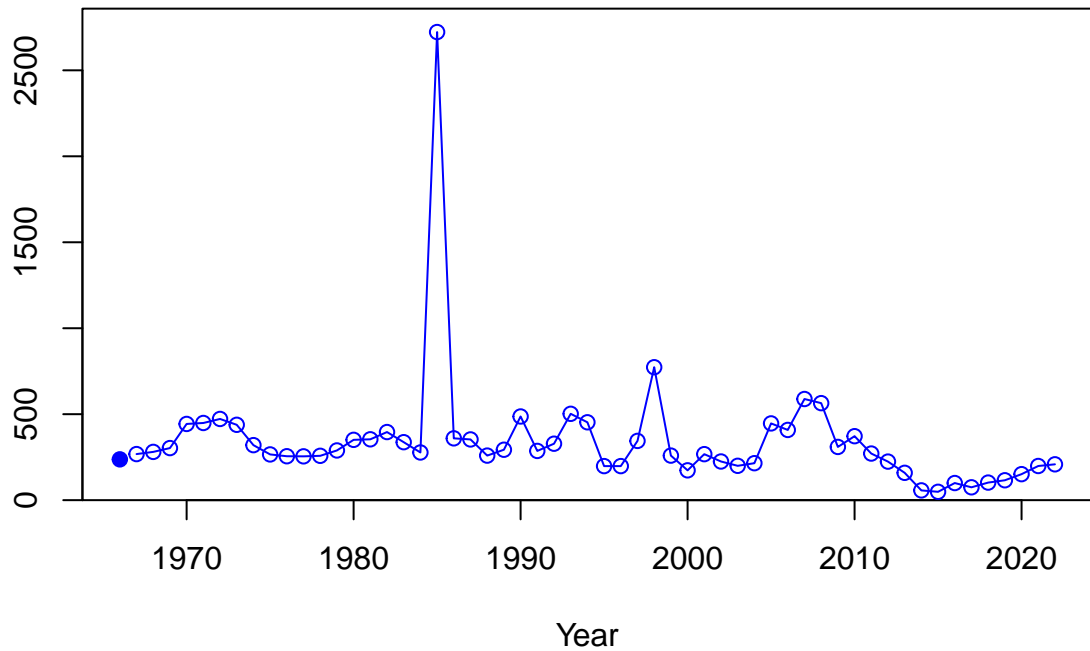
Relative spawning biomass: B/B_{MSY}



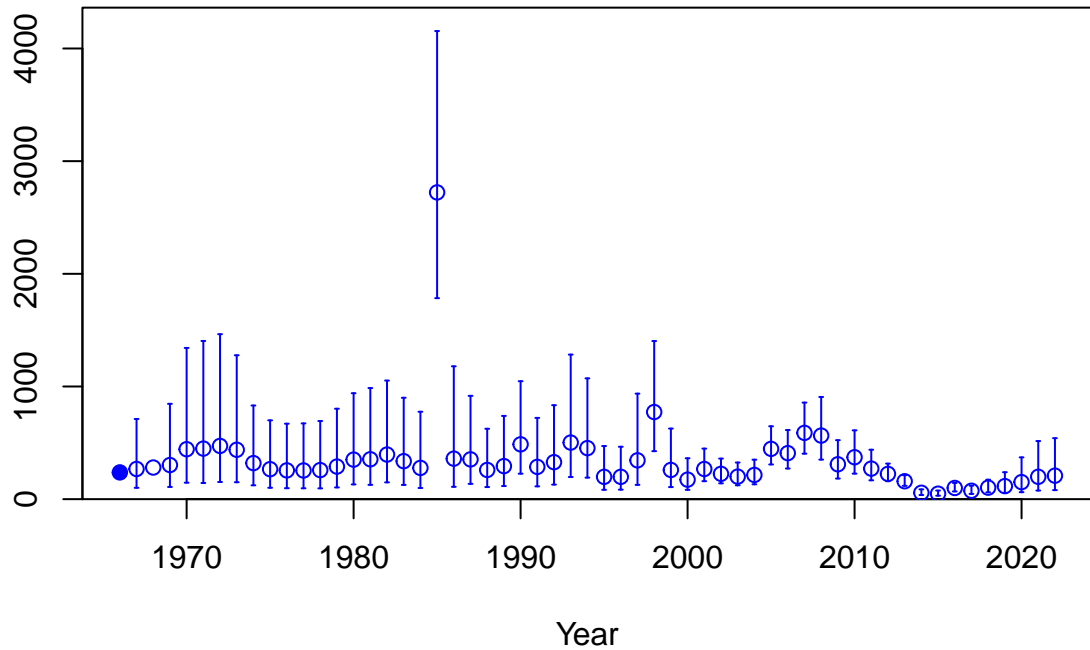




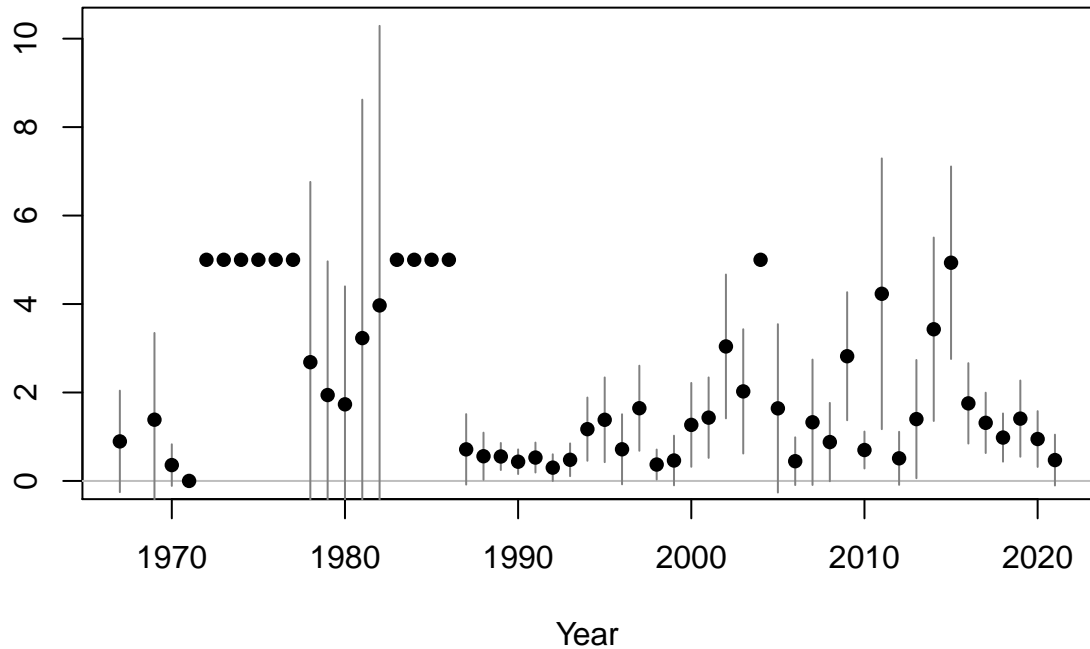
Age-0 recruits (1,000s)



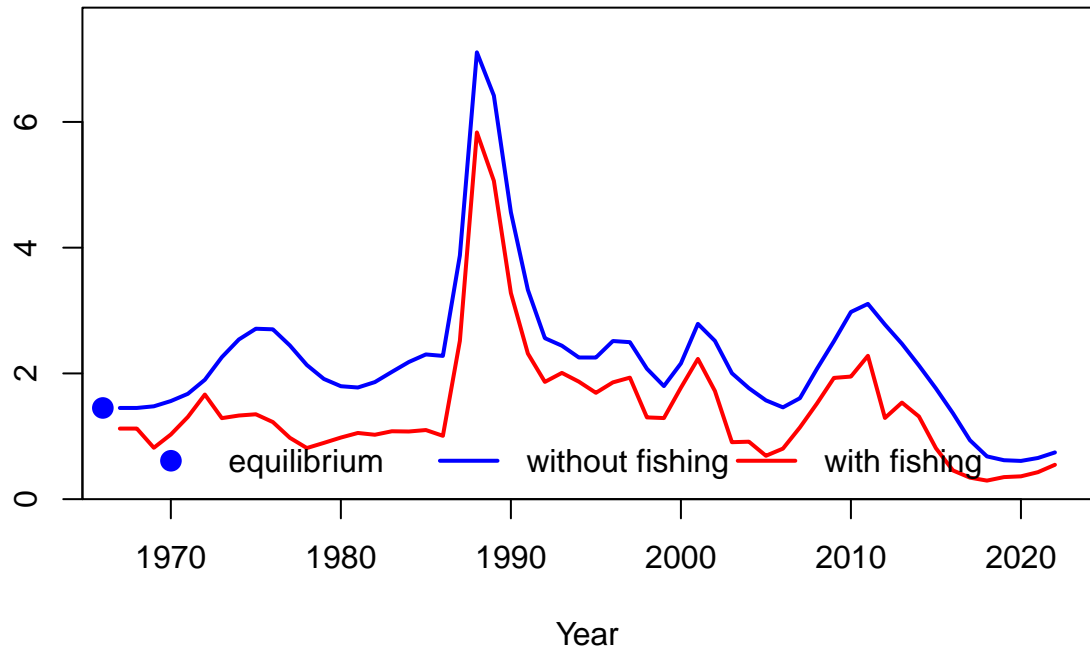
Age-0 recruits (1,000s)



Summary Fishing Mortality



Spawning biomass (mt)



Log recruitment deviation

2
1
0
-1

1970

1980

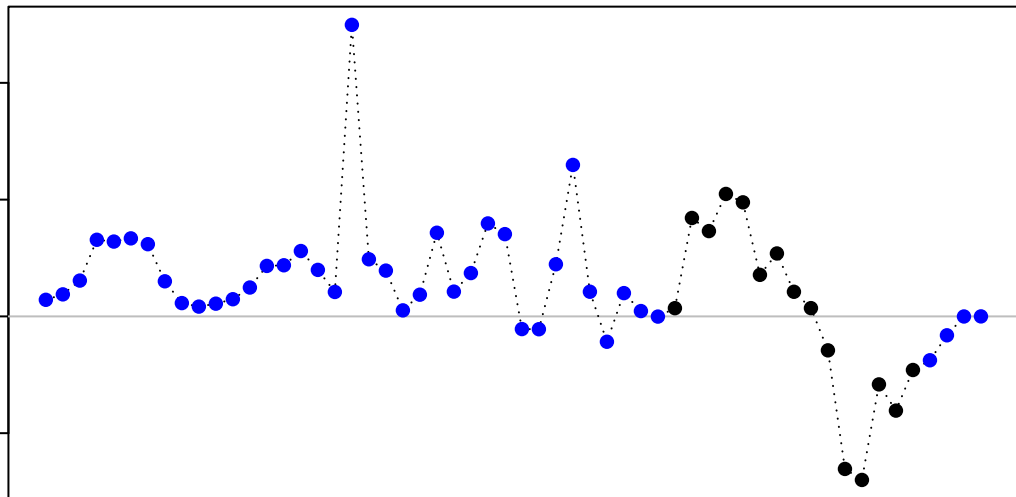
1990

2000

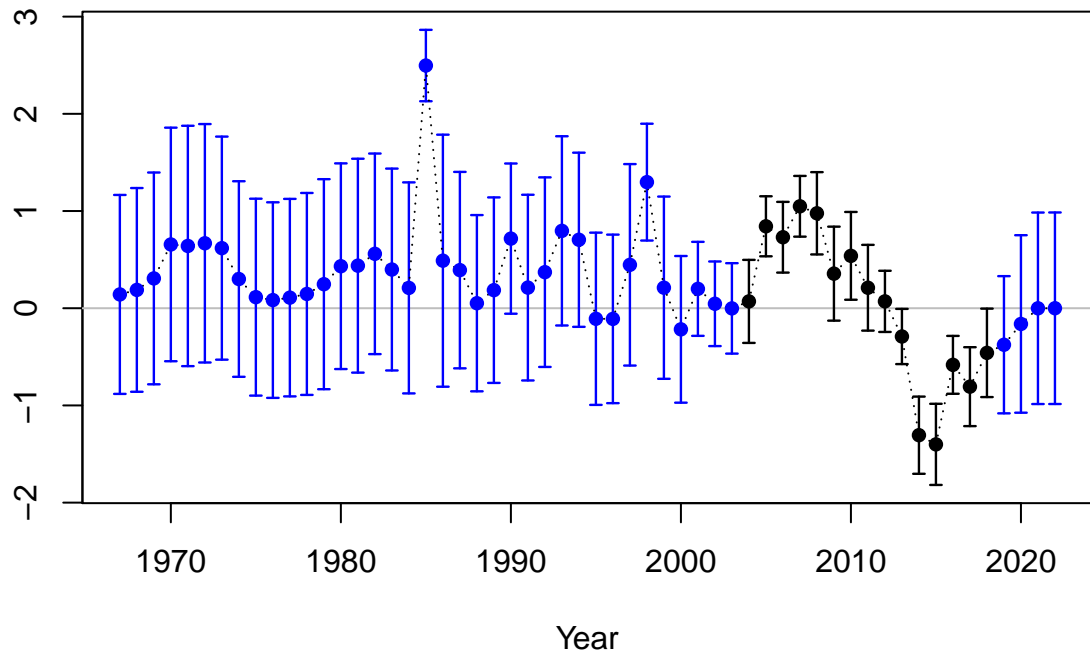
2010

2020

Year

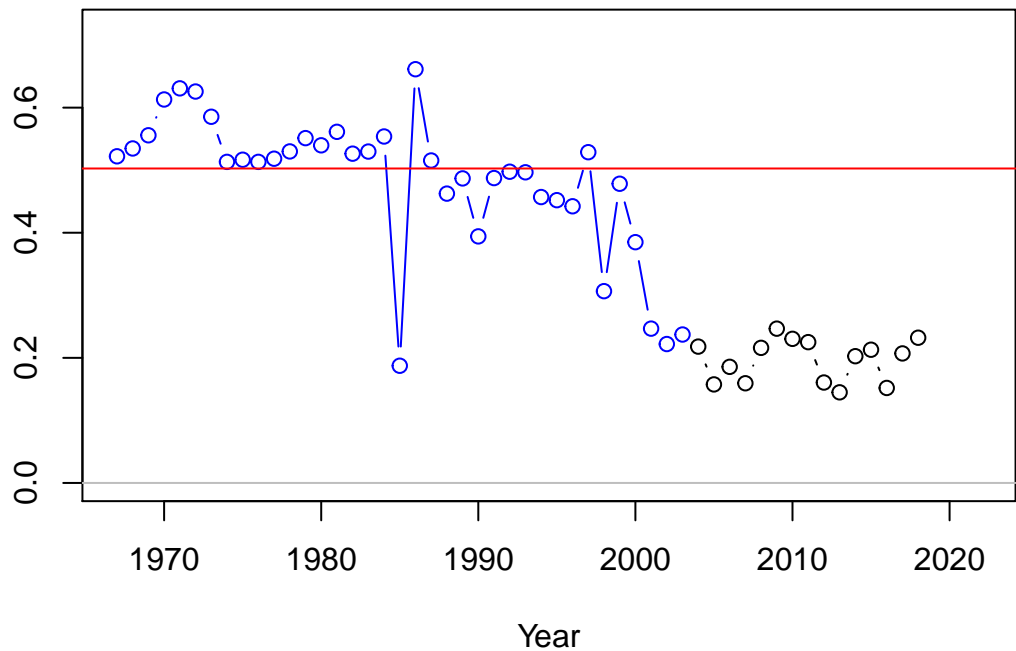


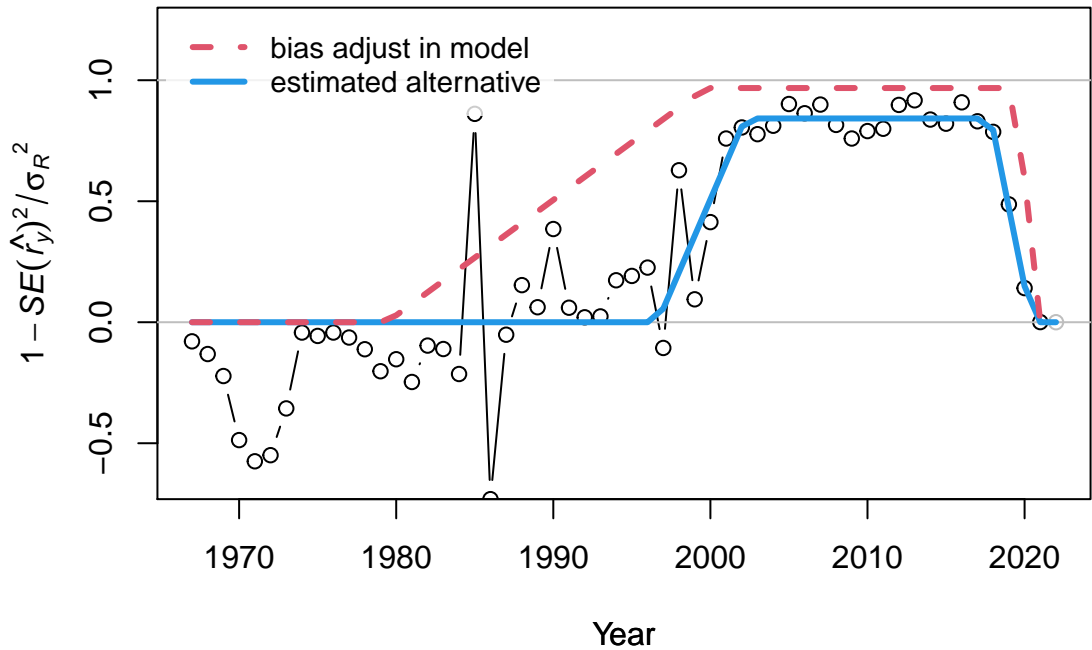
Log recruitment deviation

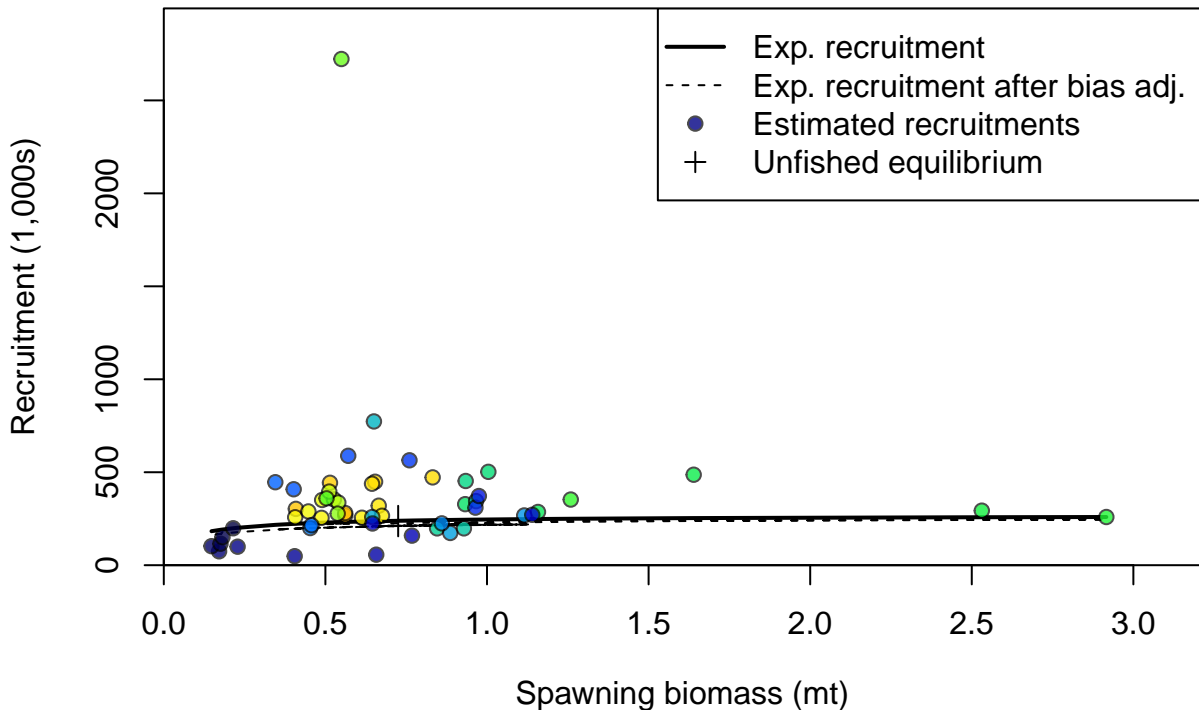


Recruitment deviation variance

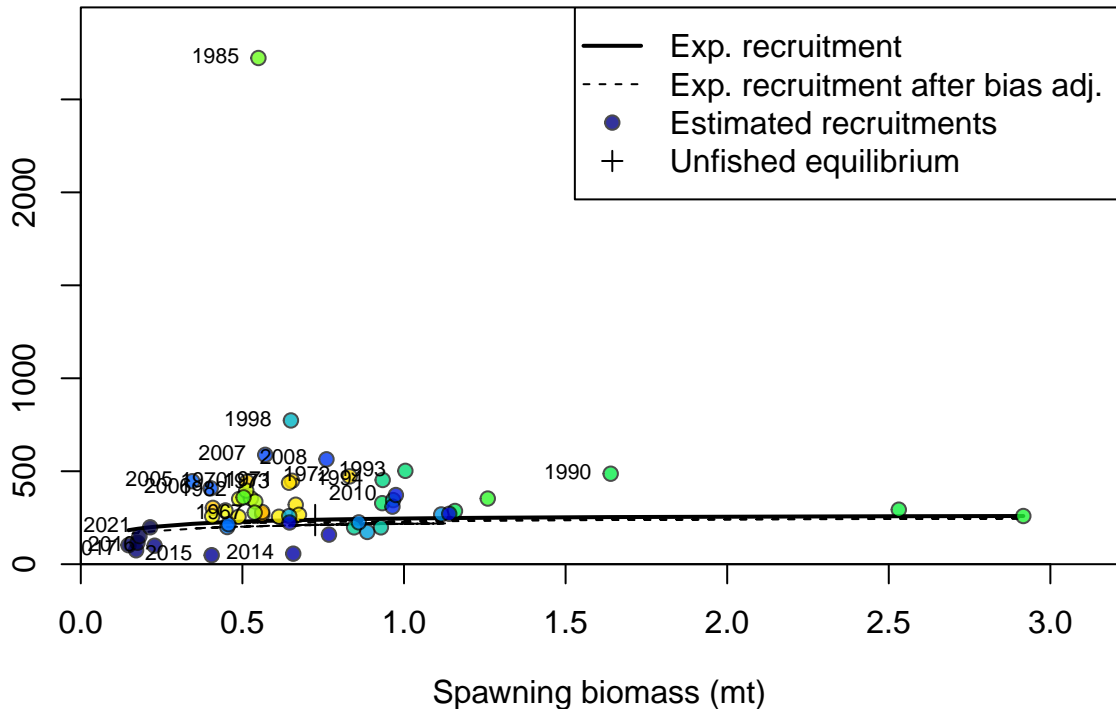
Asymptotic standard error estimate



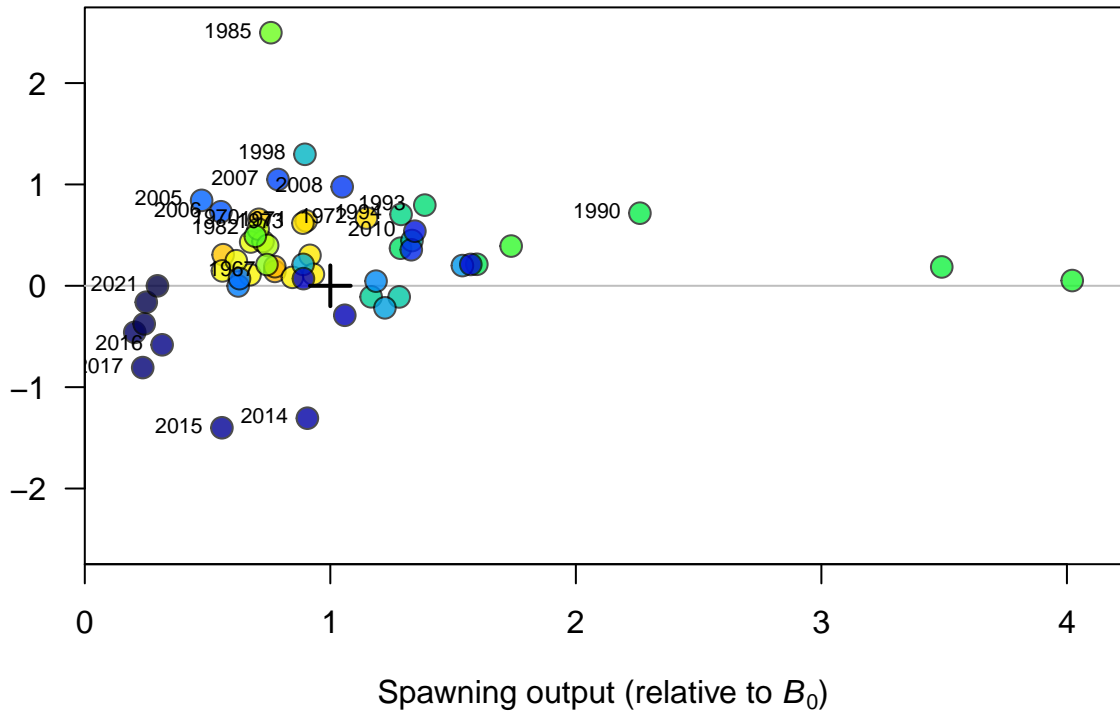


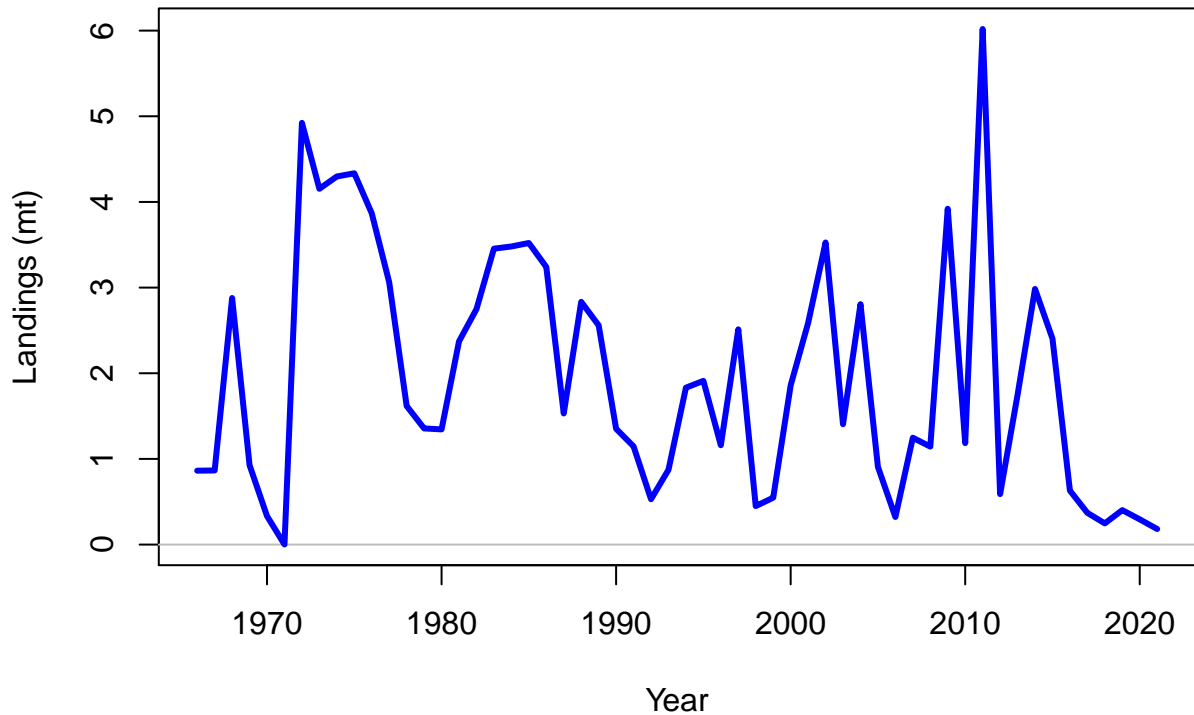


Recruitment (1,000s)

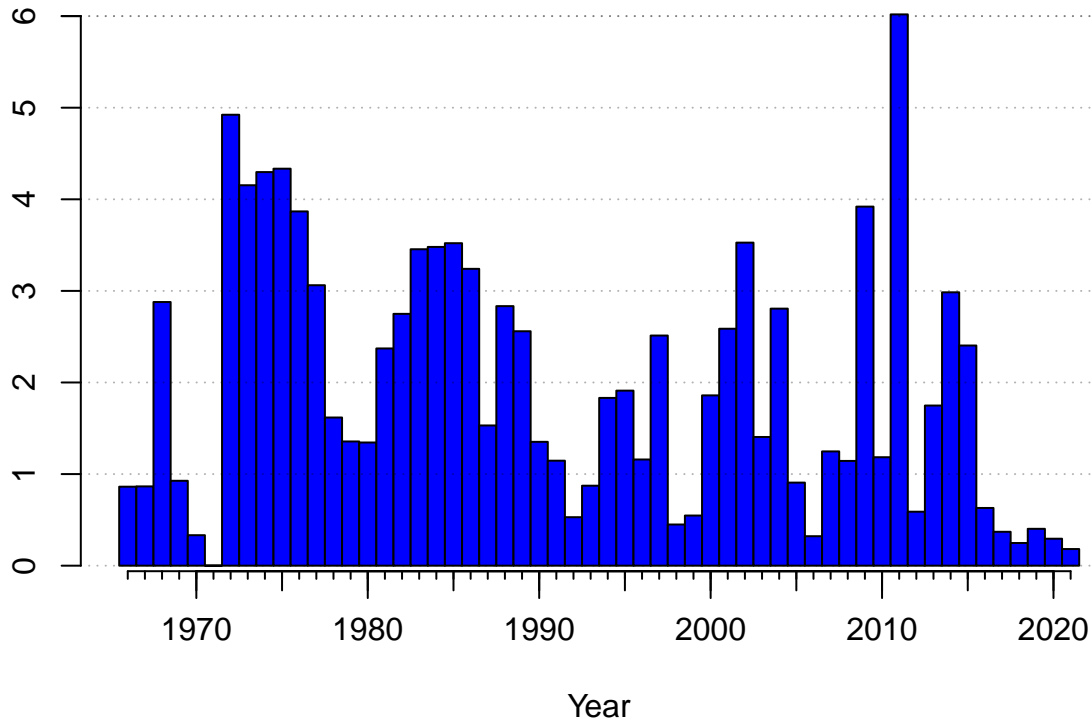


Log recruitment deviation

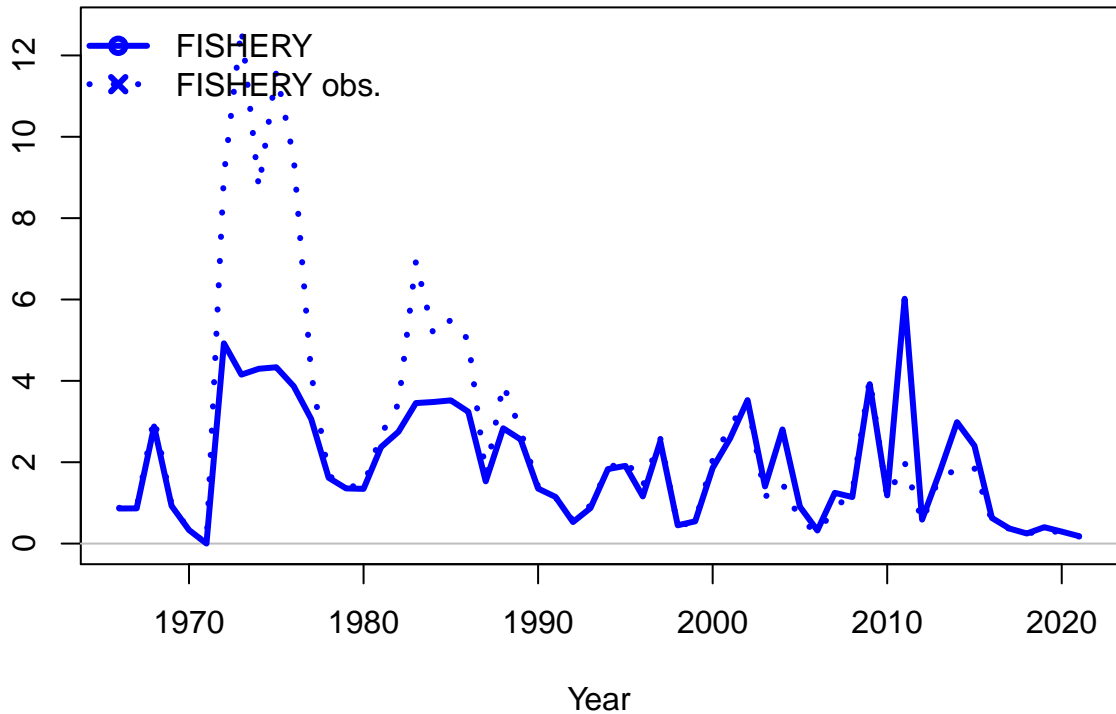


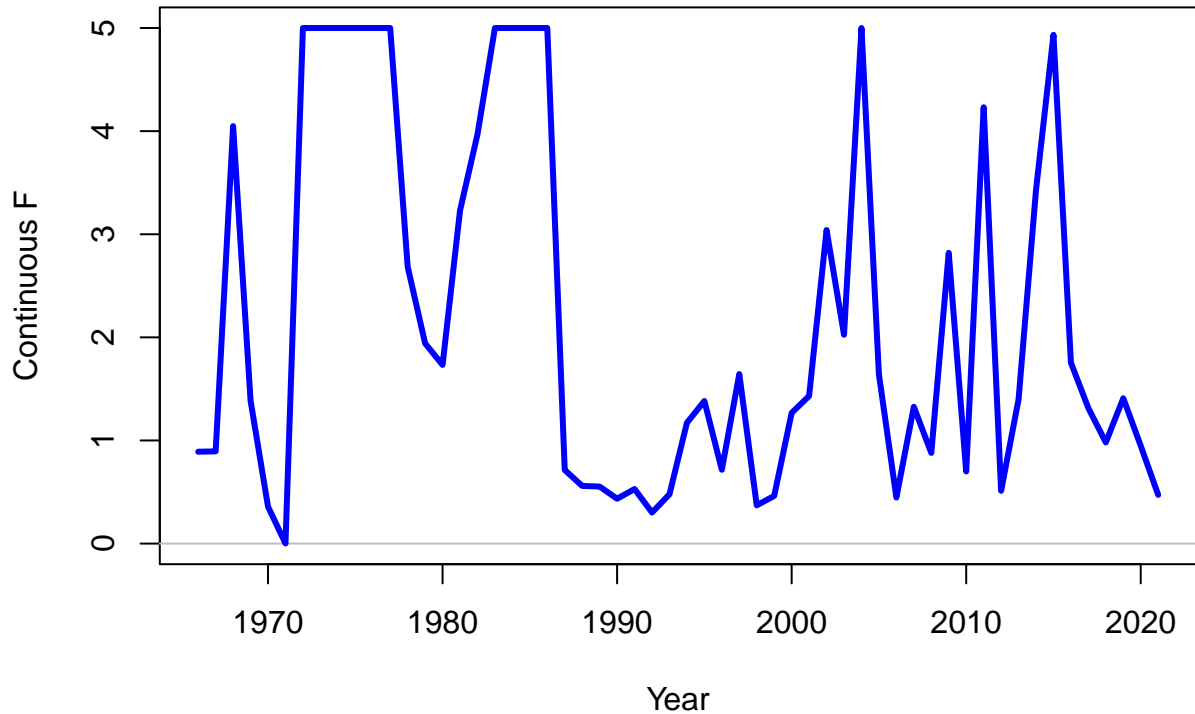


Landings (mt)

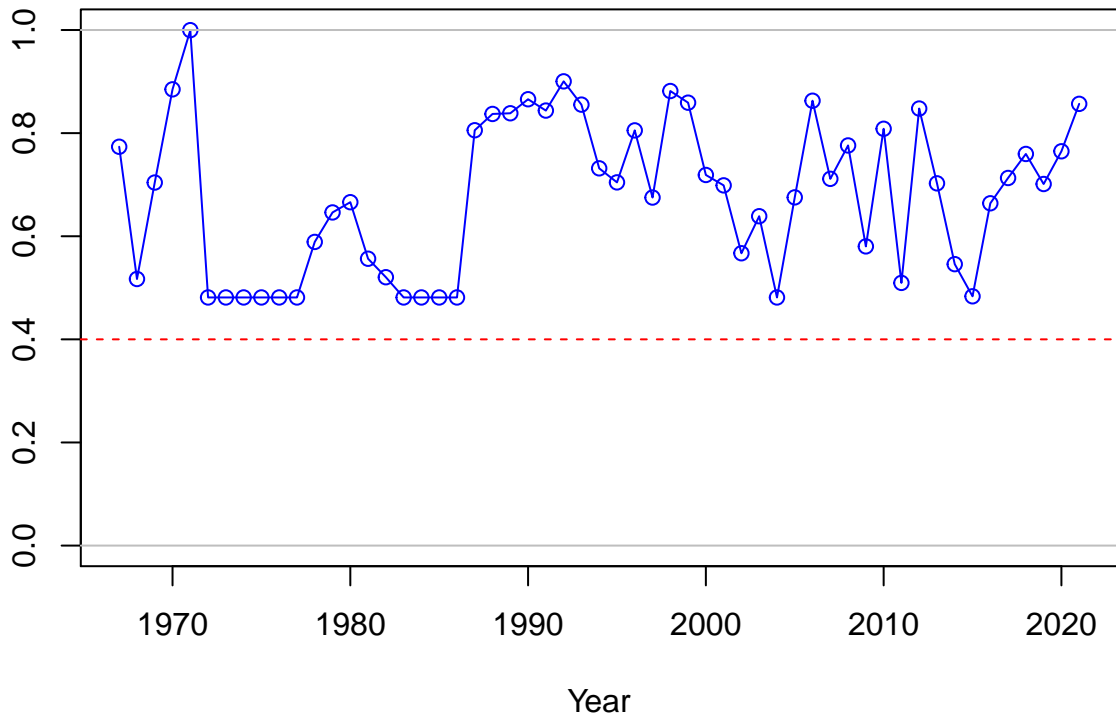


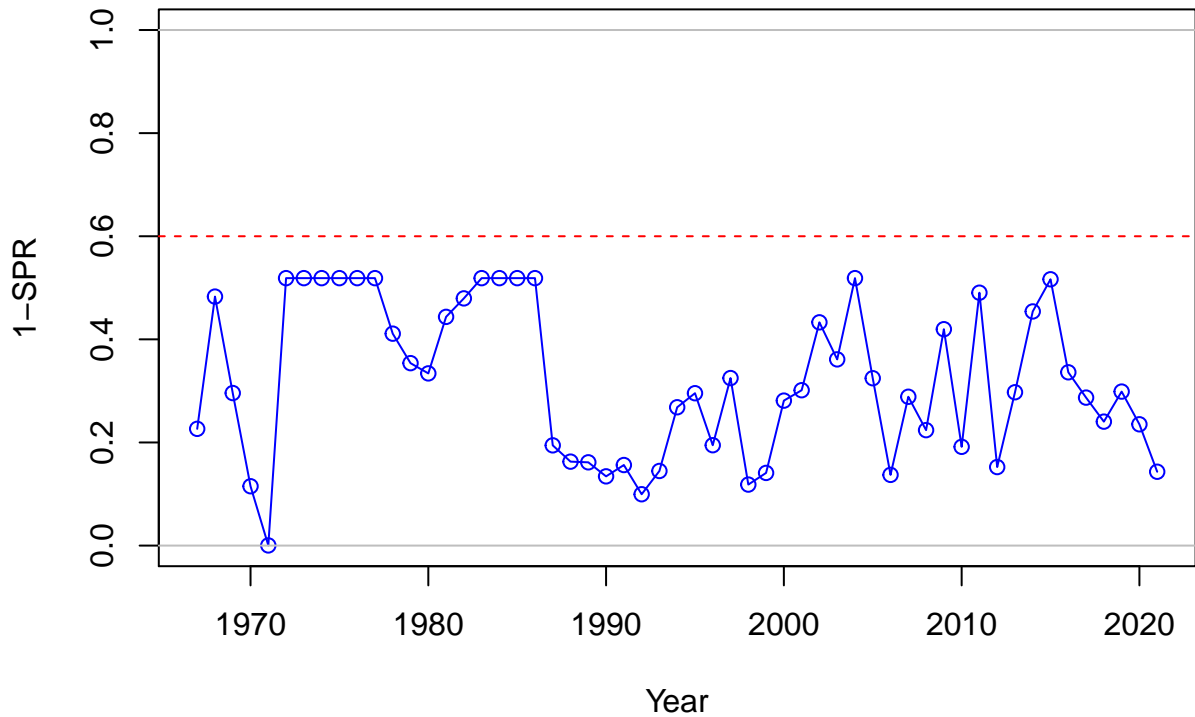
Observed and expected Landings (mt)



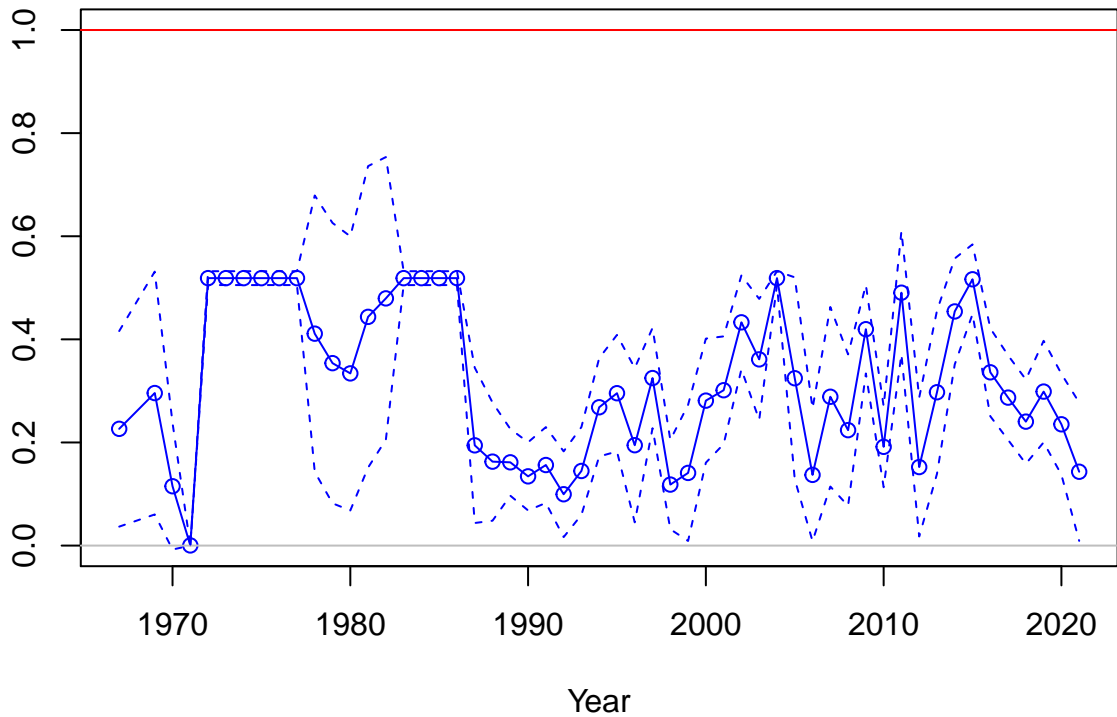


SPR

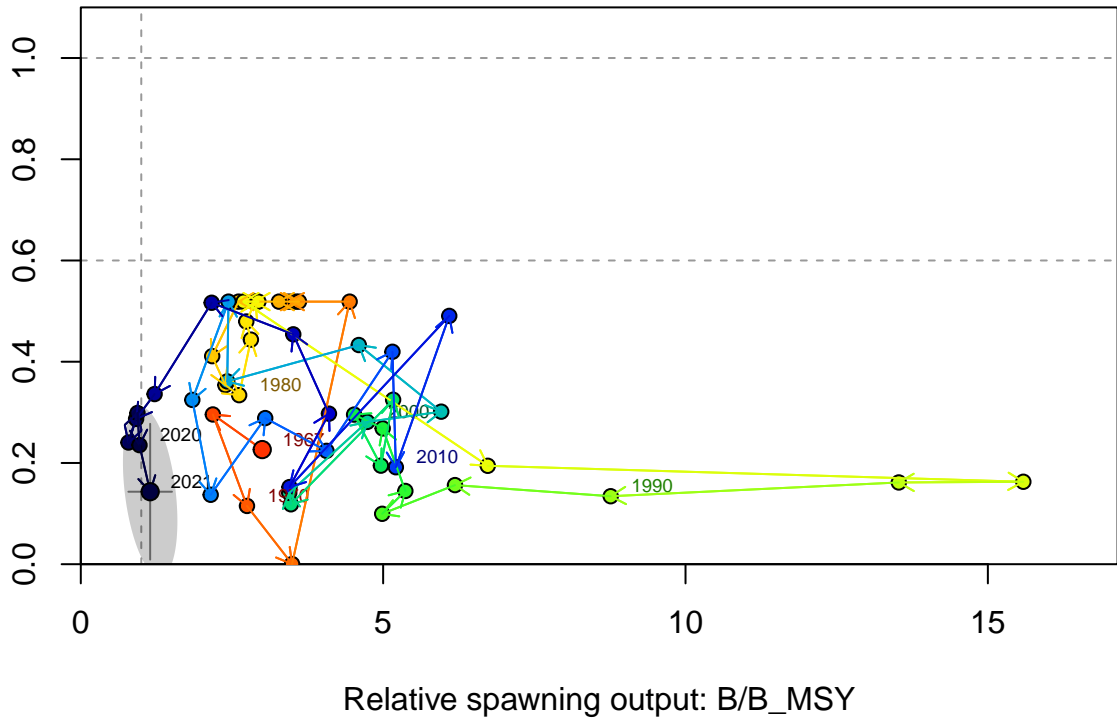




Fishing intensity: 1-SPR



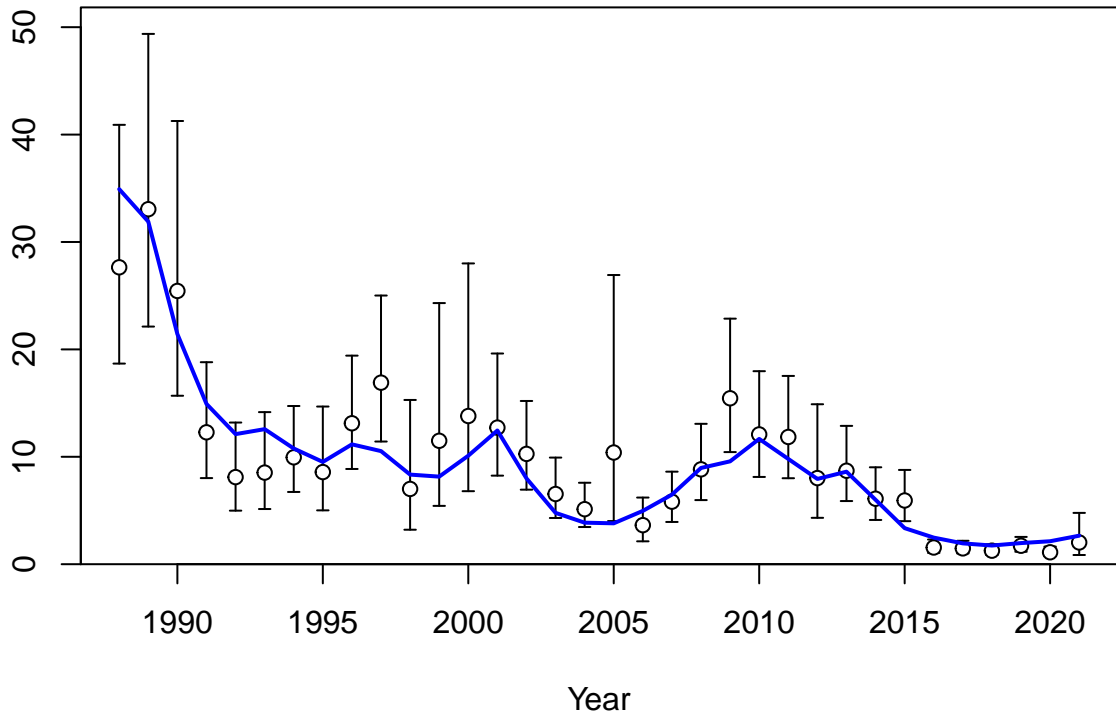
Fishing intensity: 1-SPR



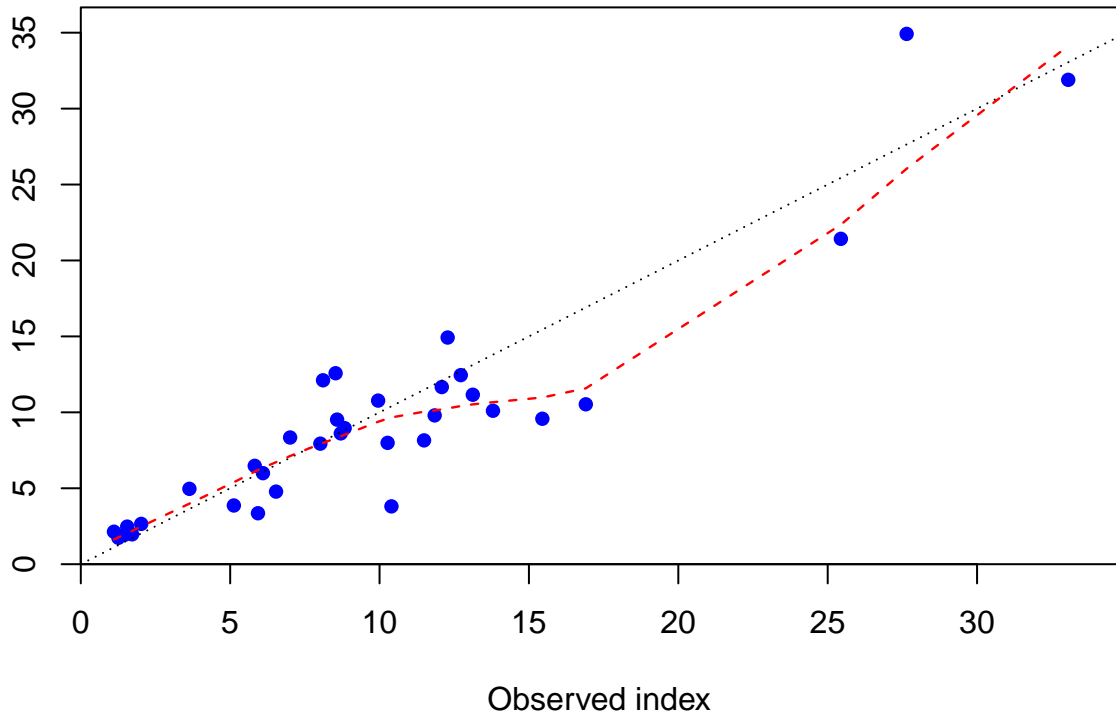
Index



Index



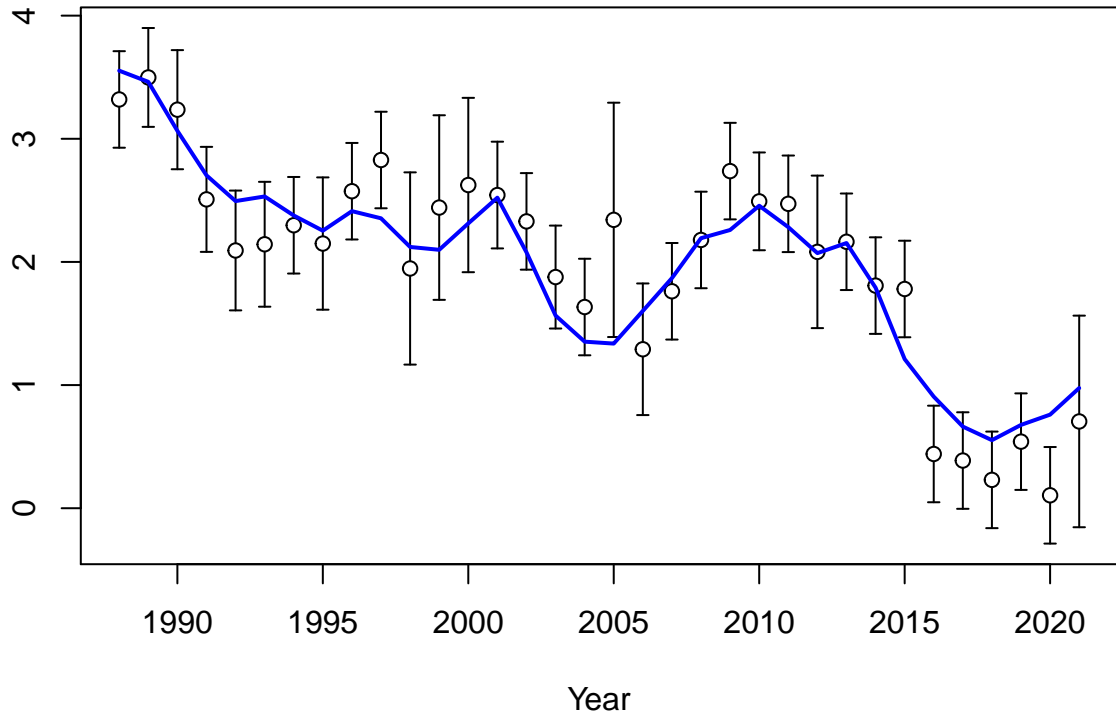
Expected index

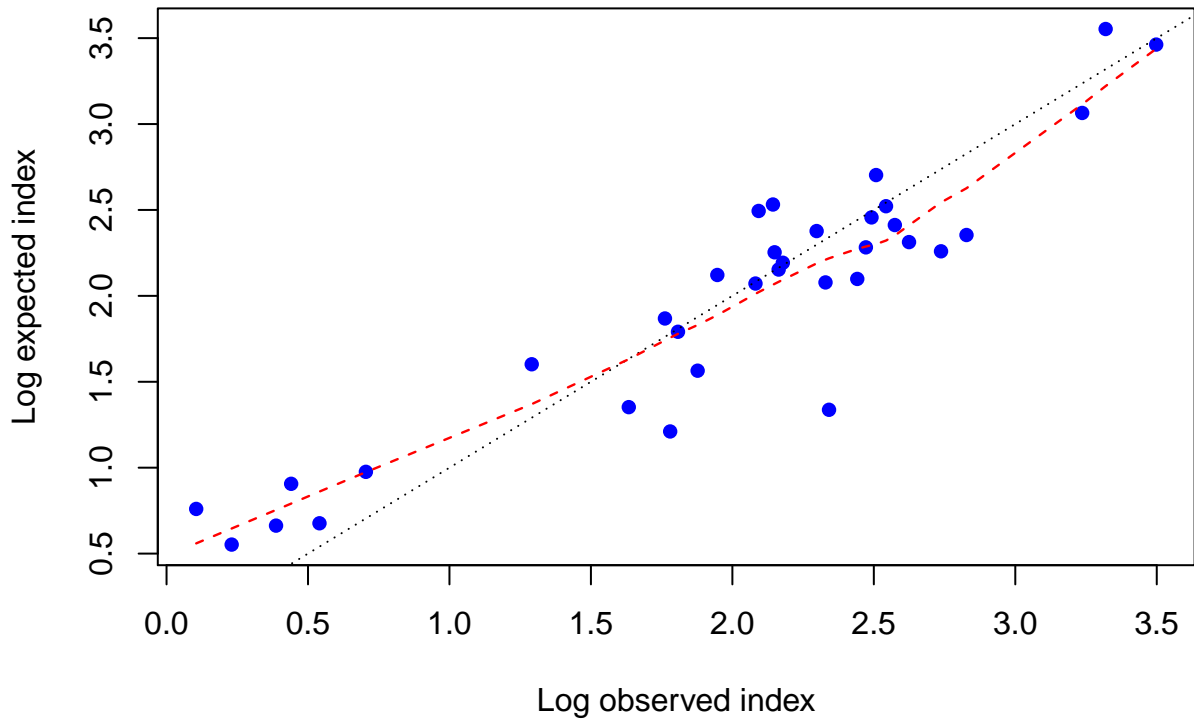


Log index

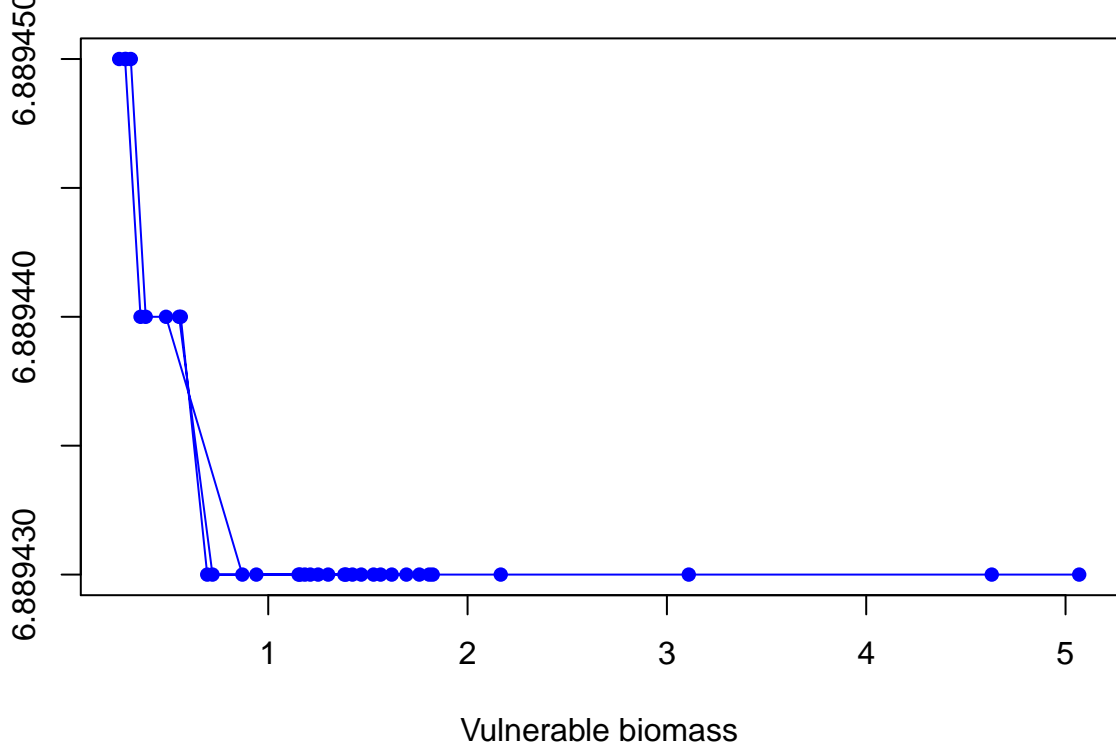


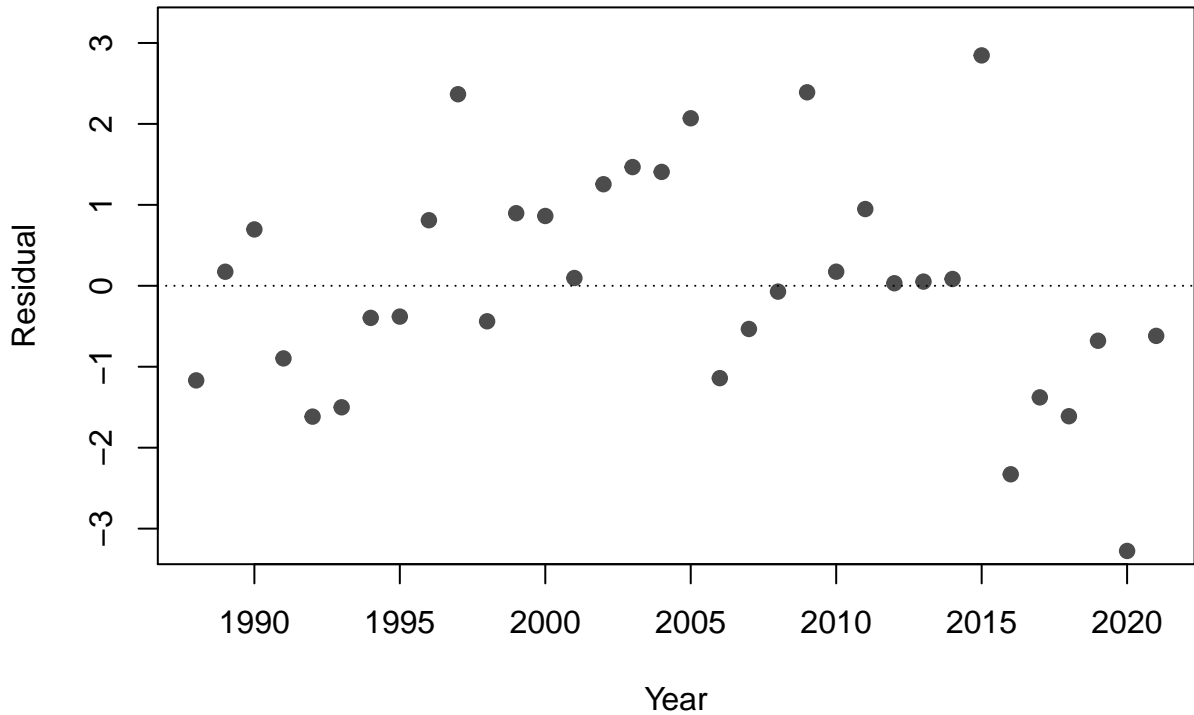
Log index



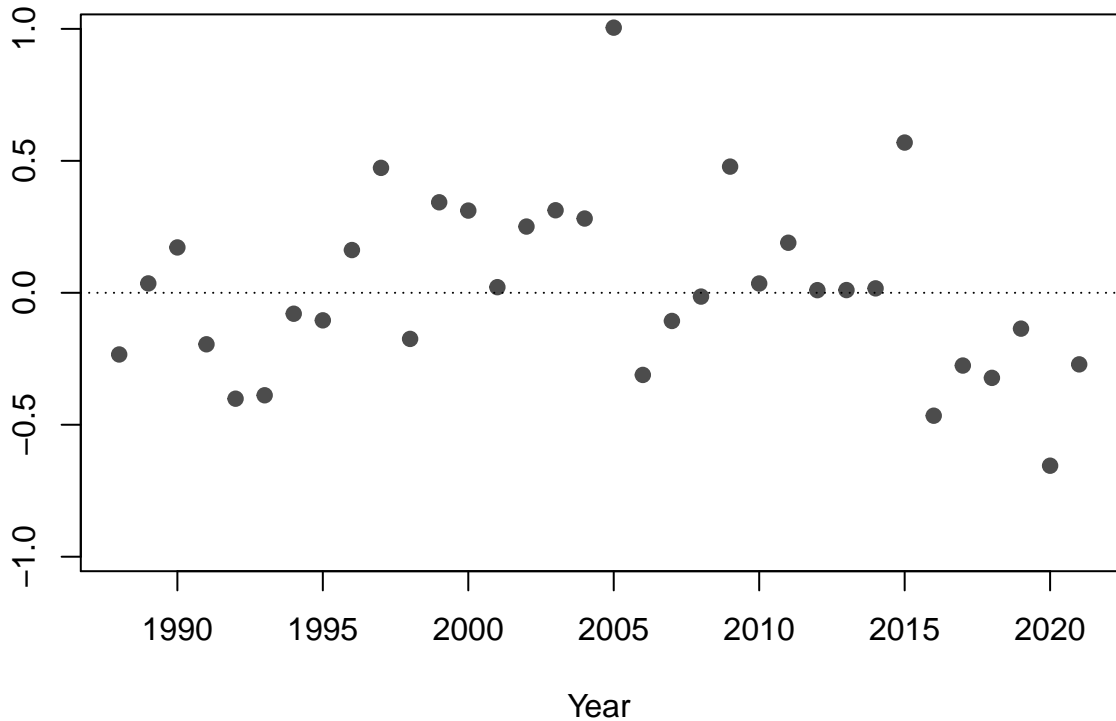


Effective catchability

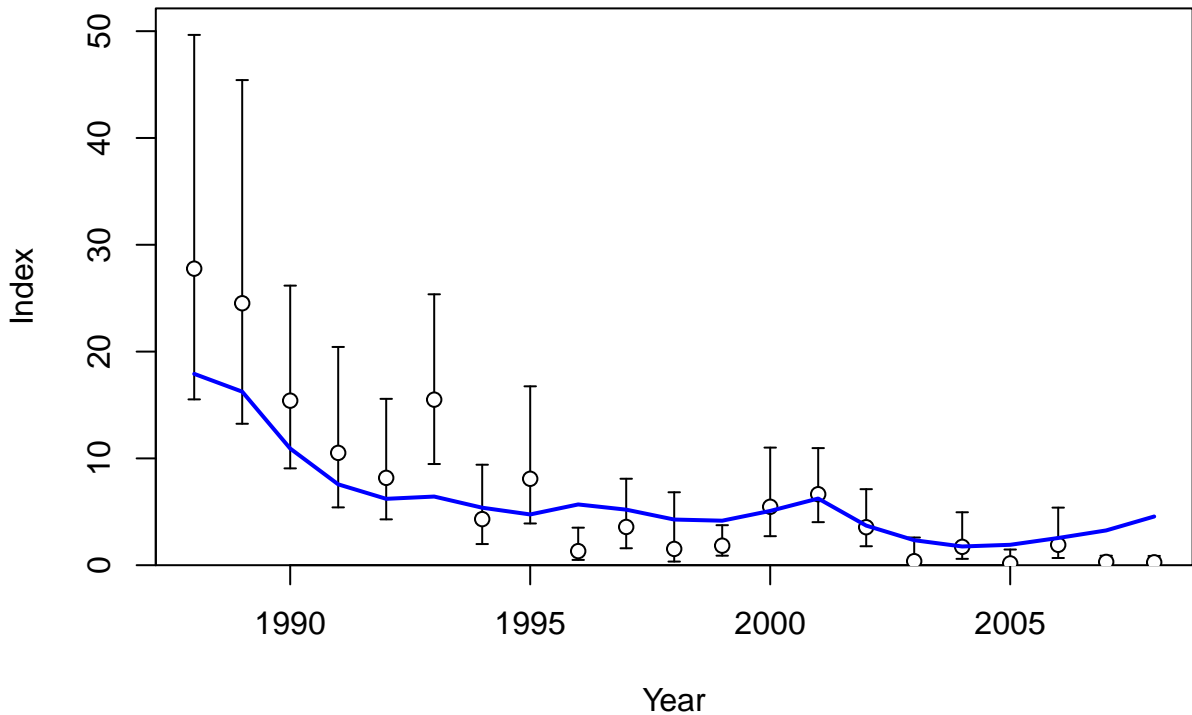


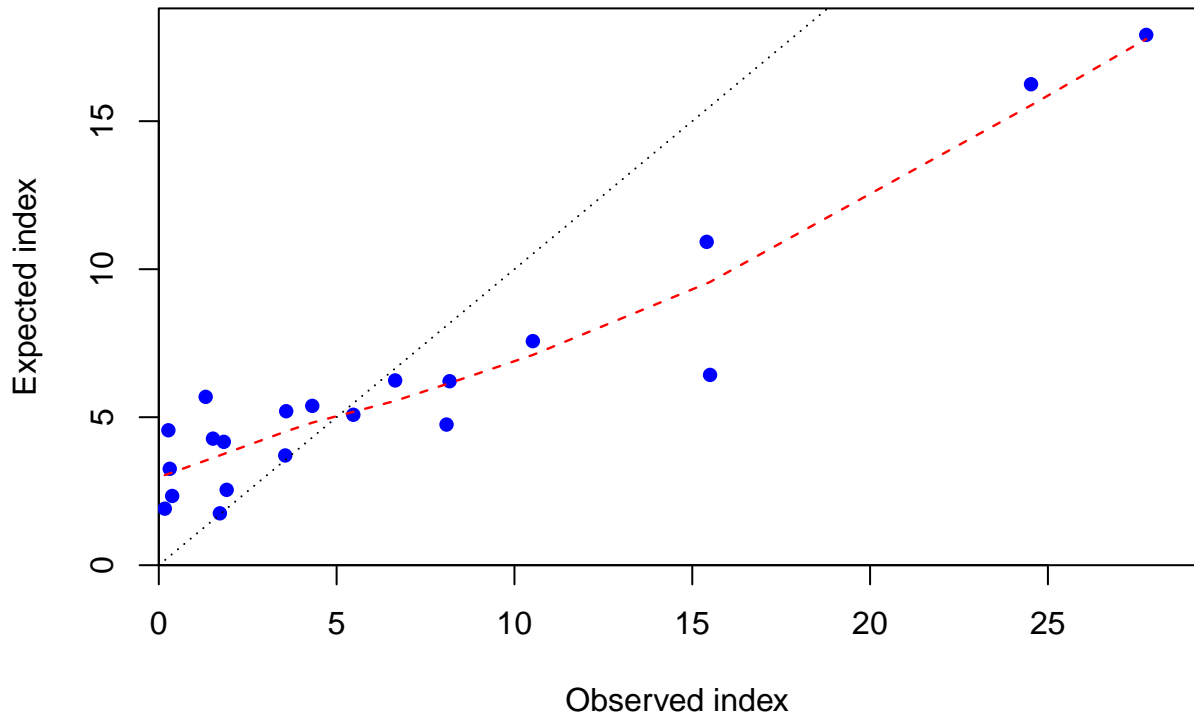


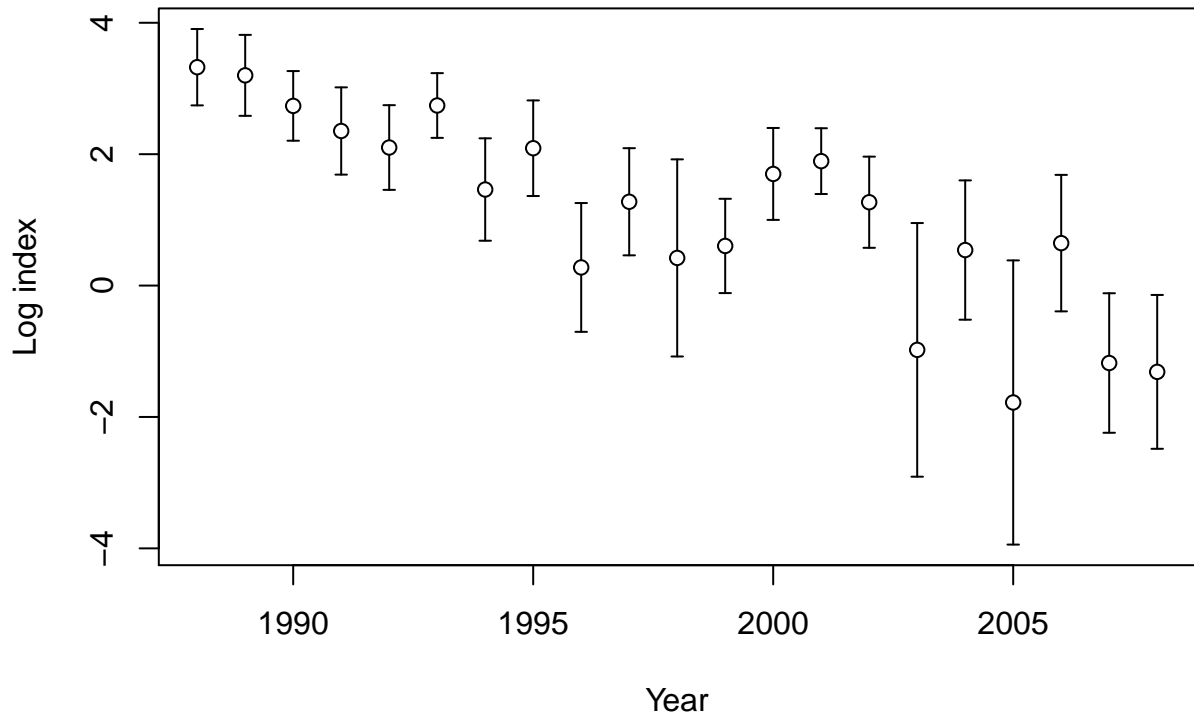
Deviation

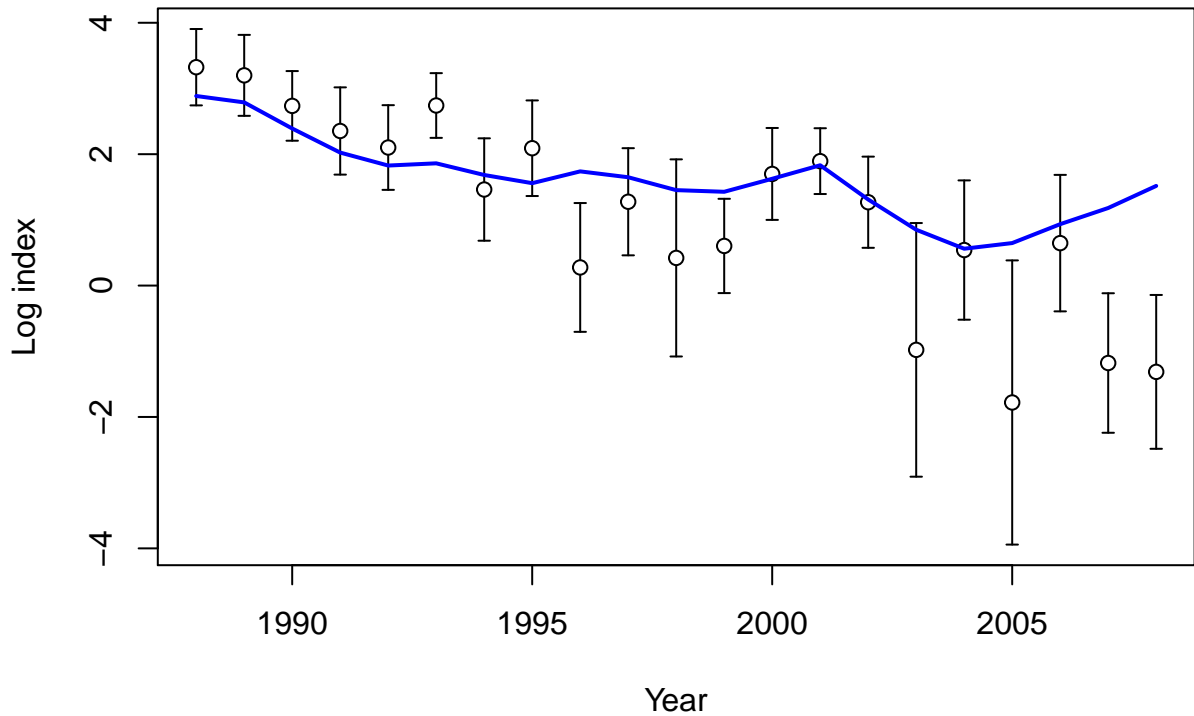


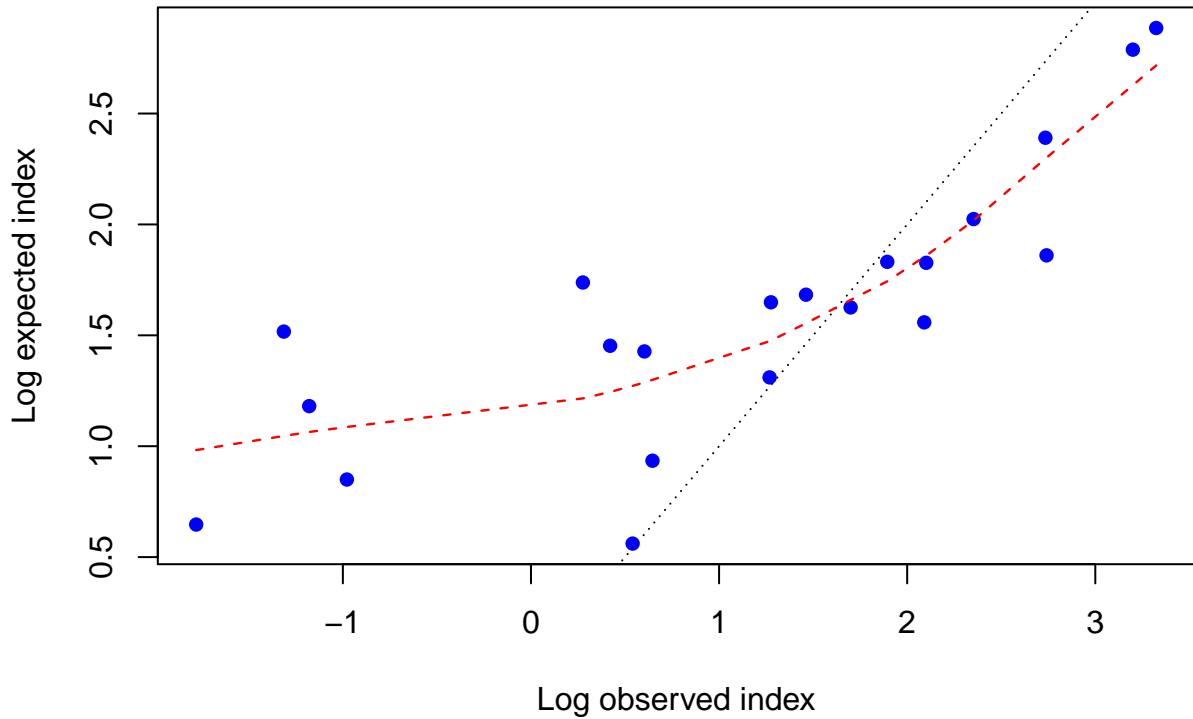


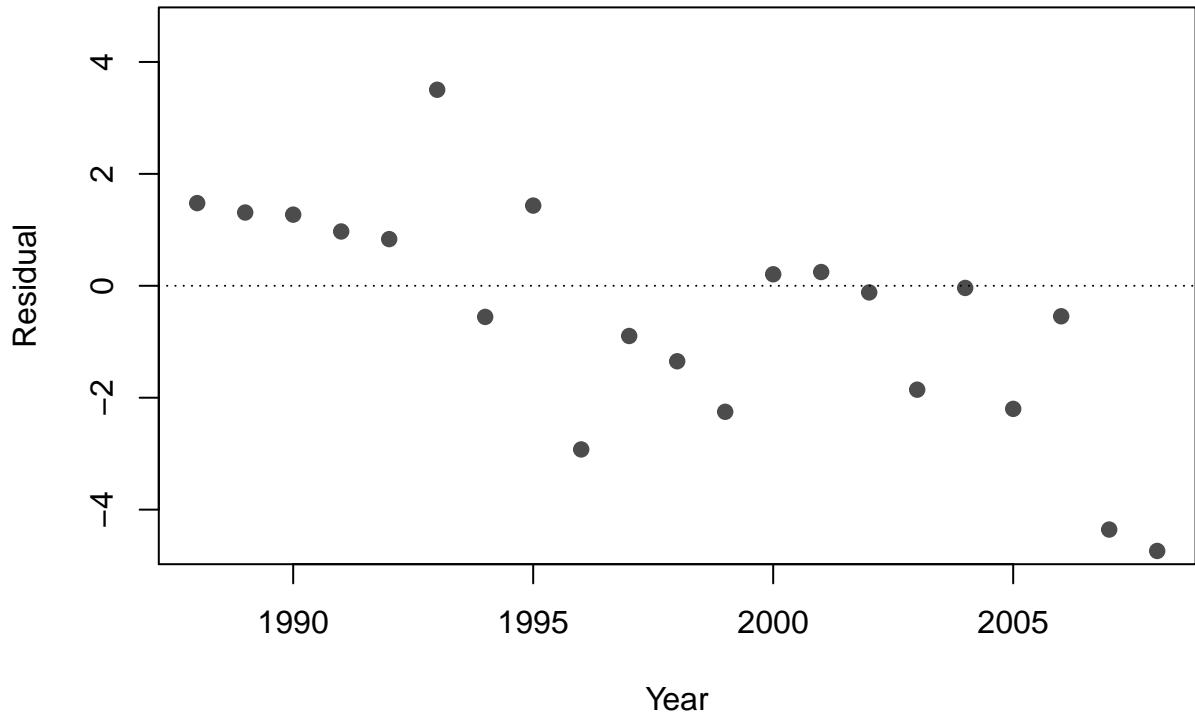


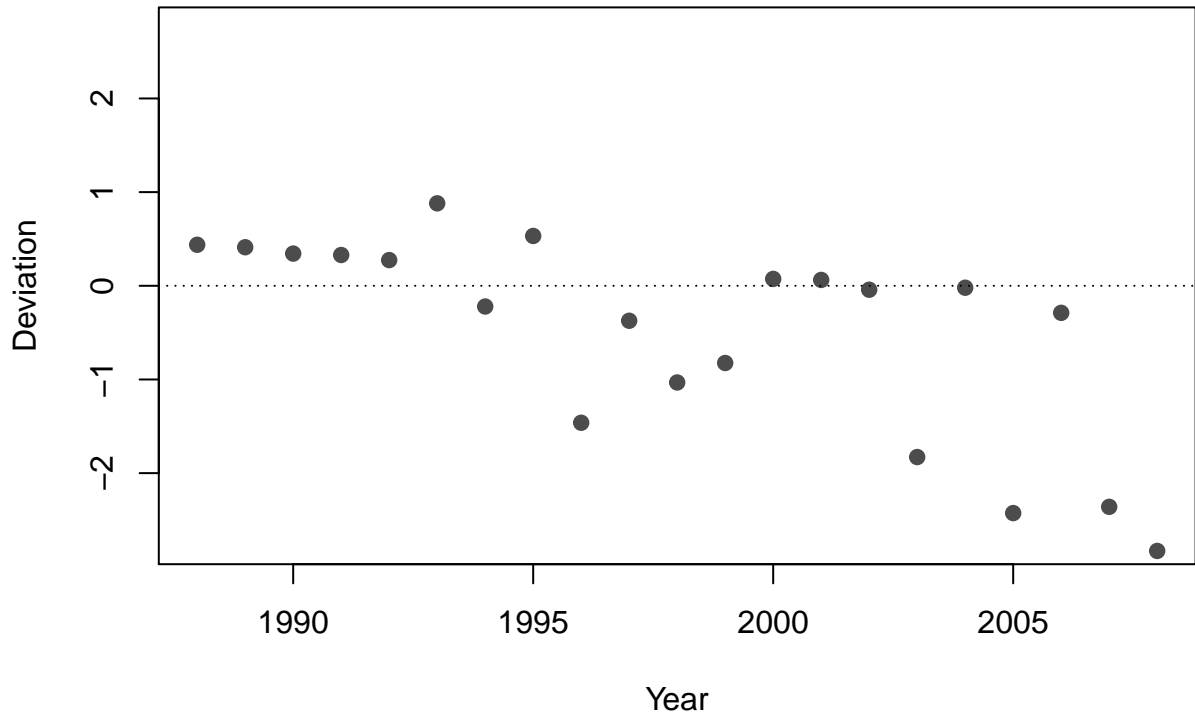


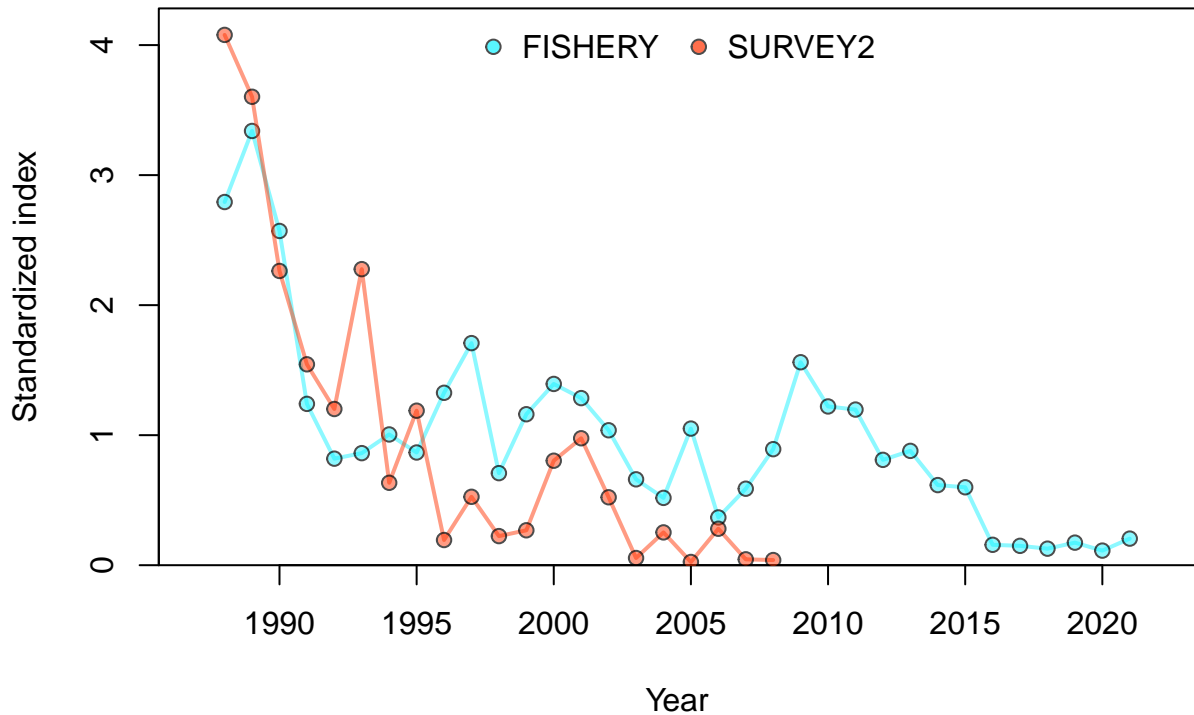




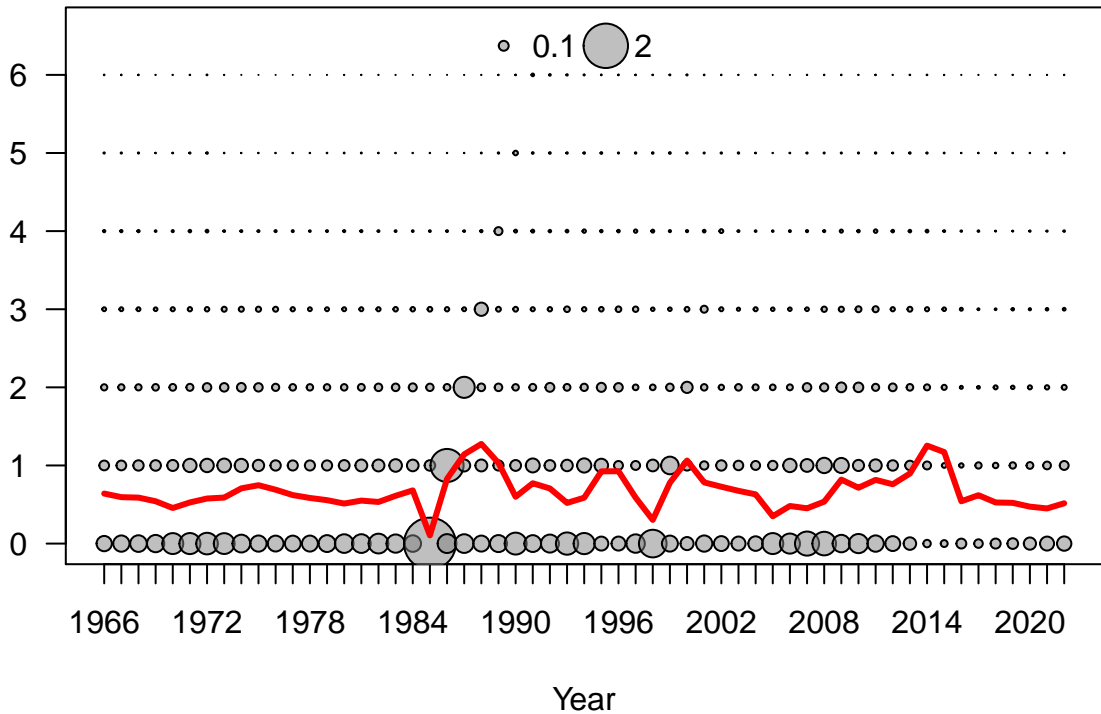




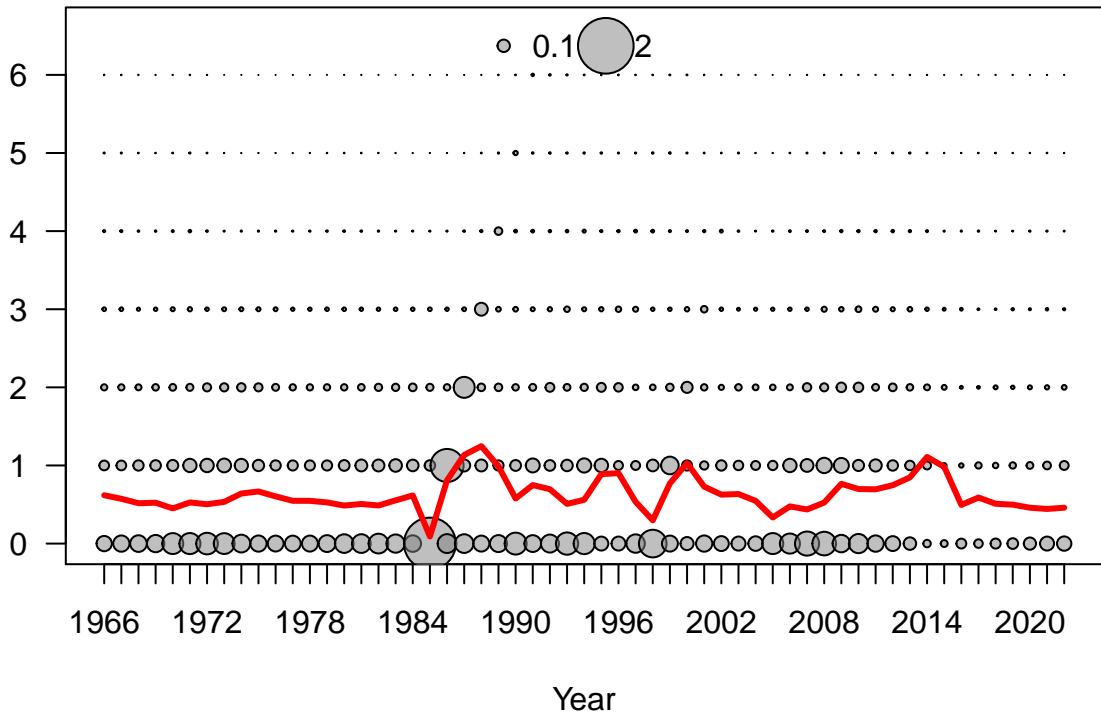


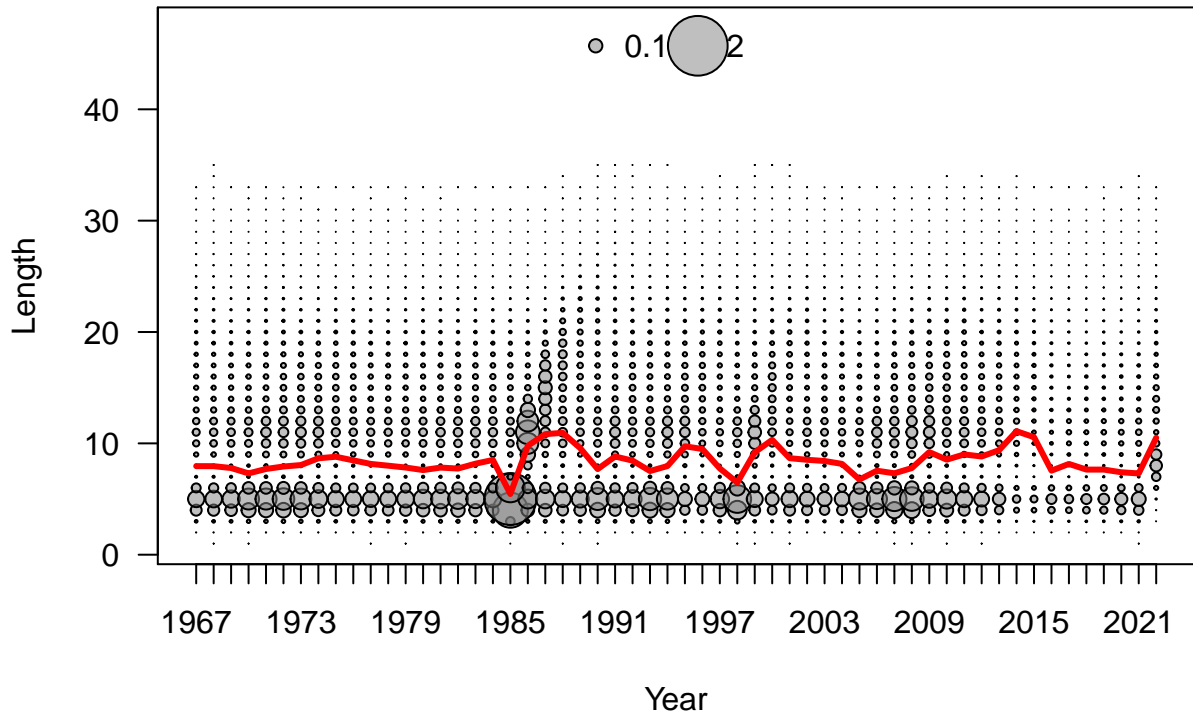


Age



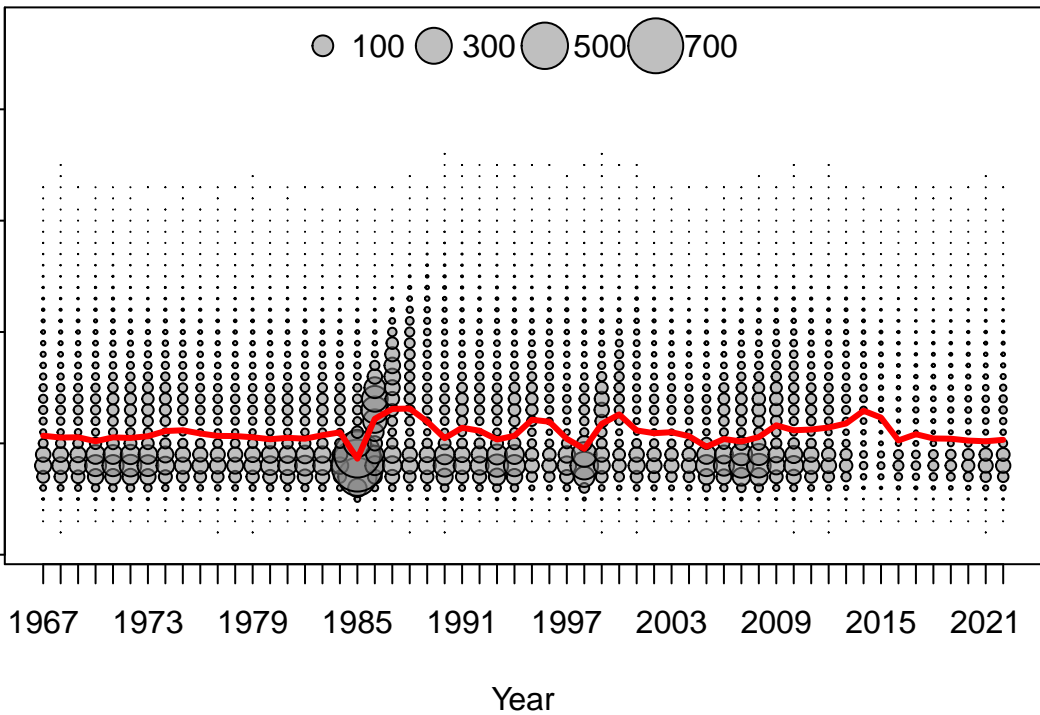
Age

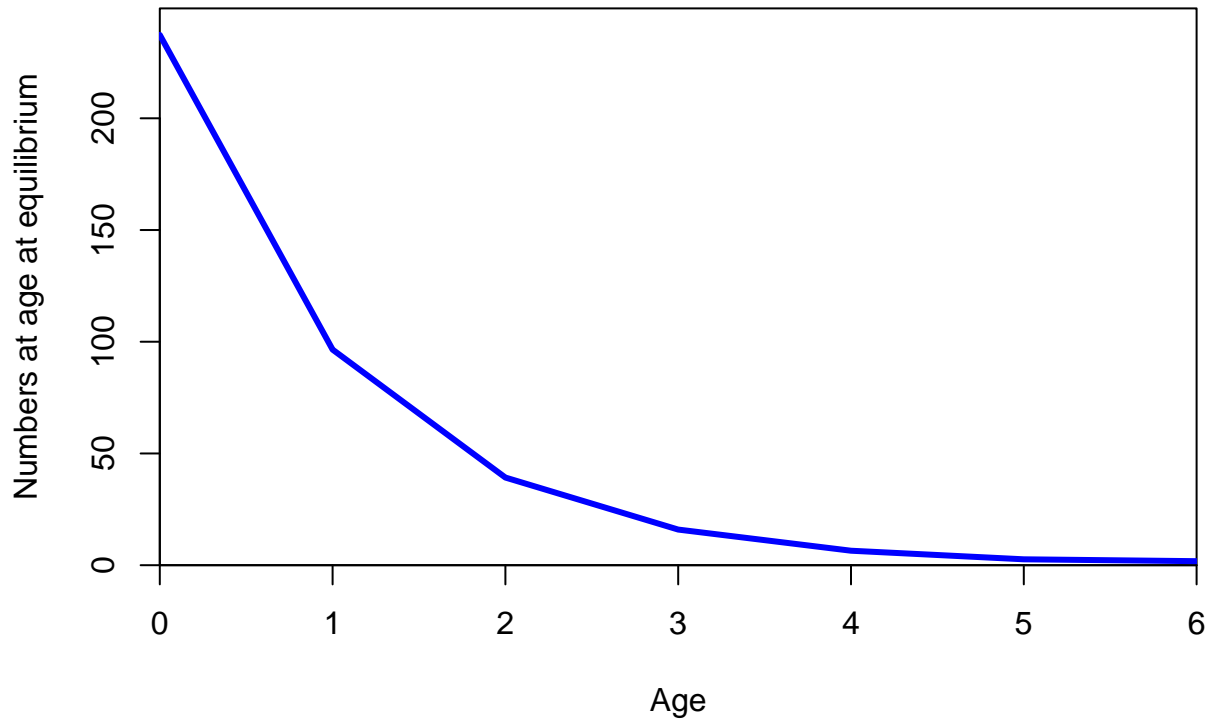




Length

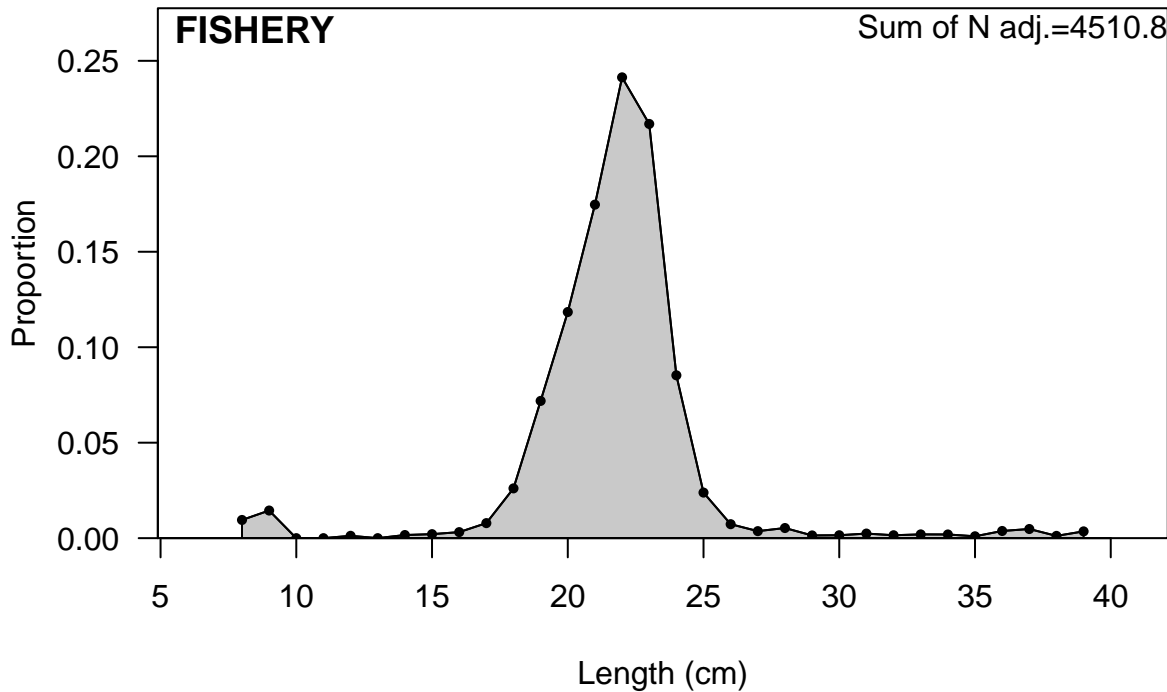
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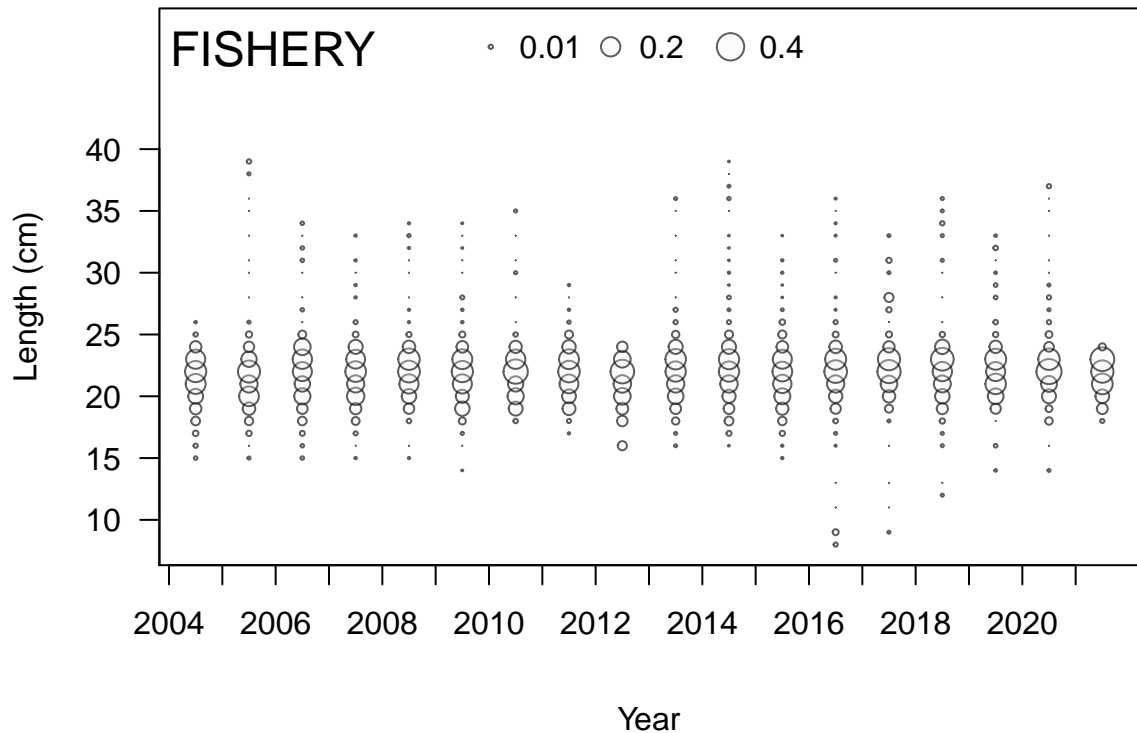


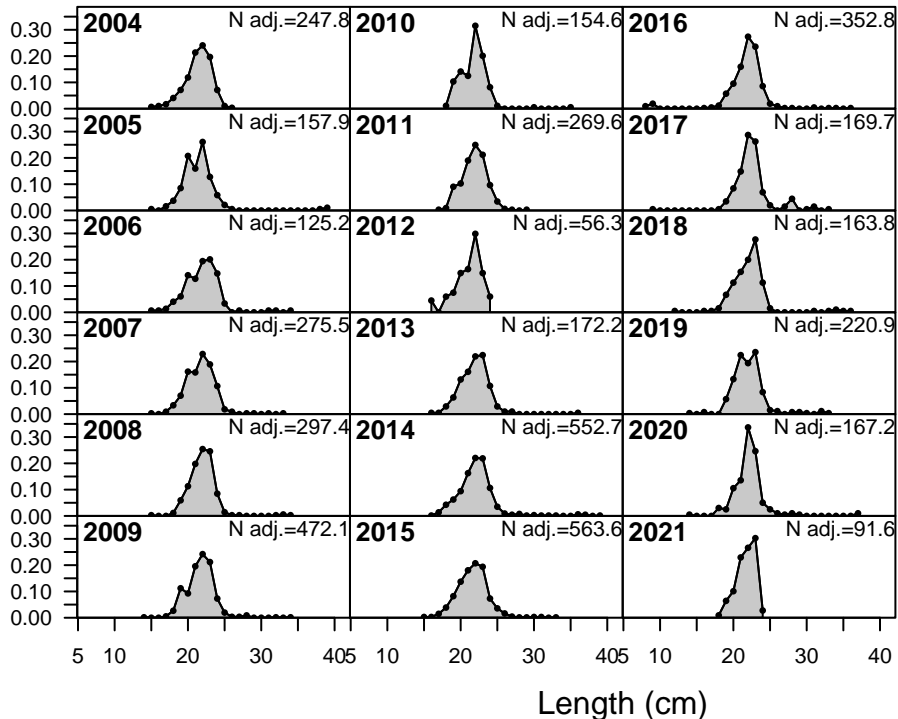


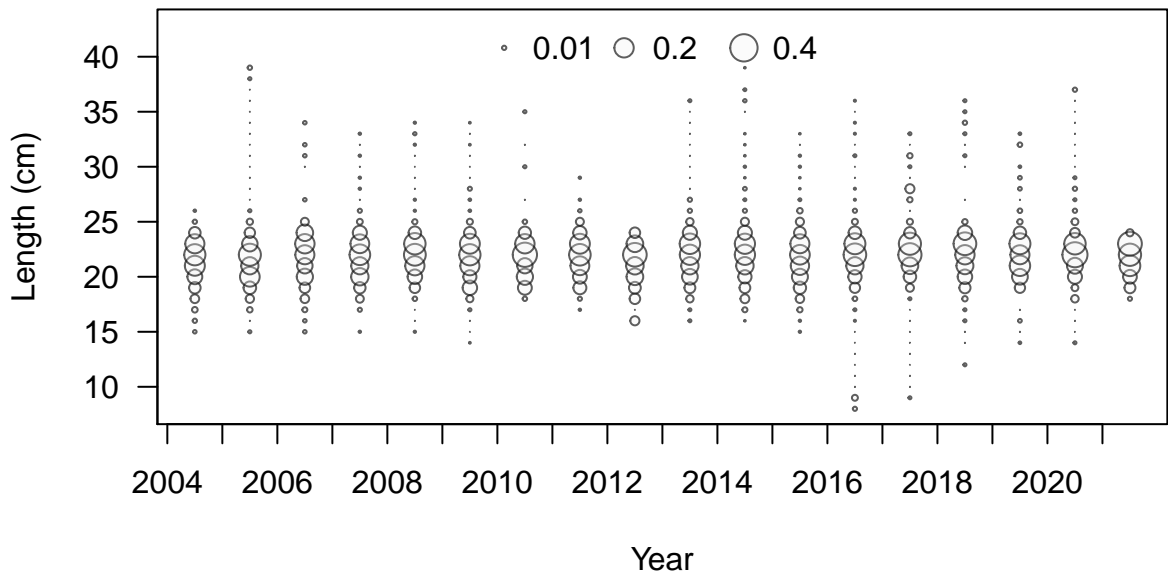
FISHERY

Sum of N adj.=4510.8

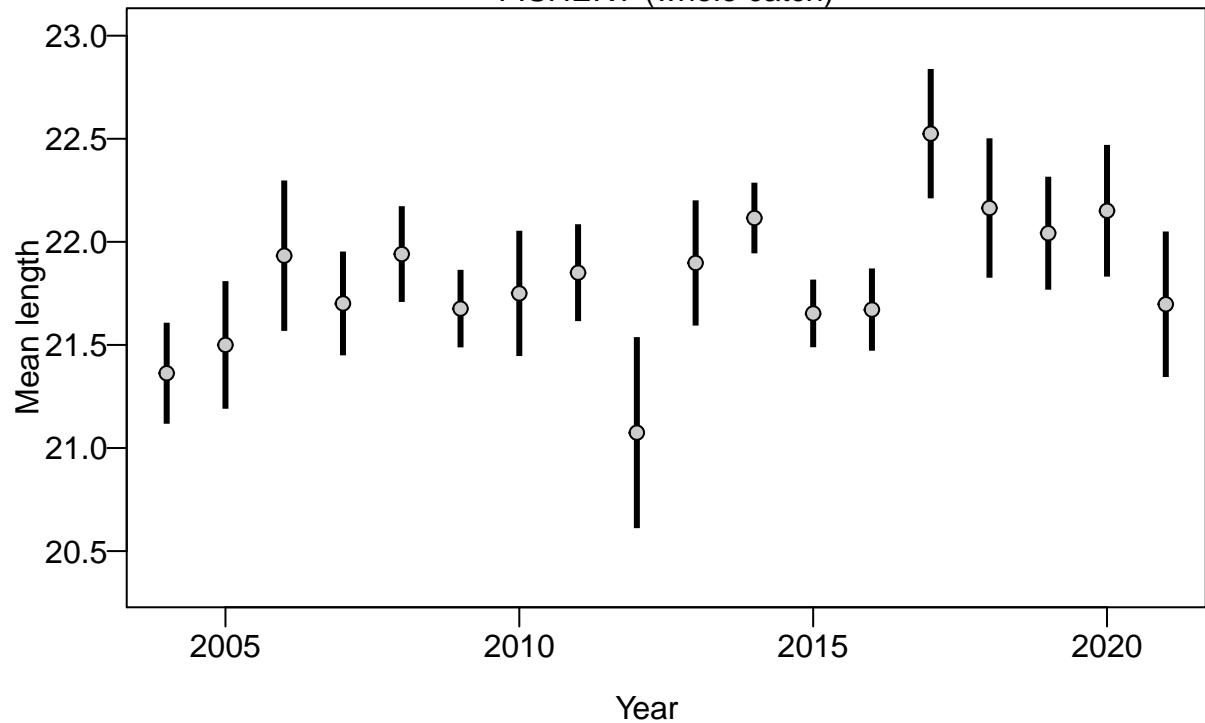






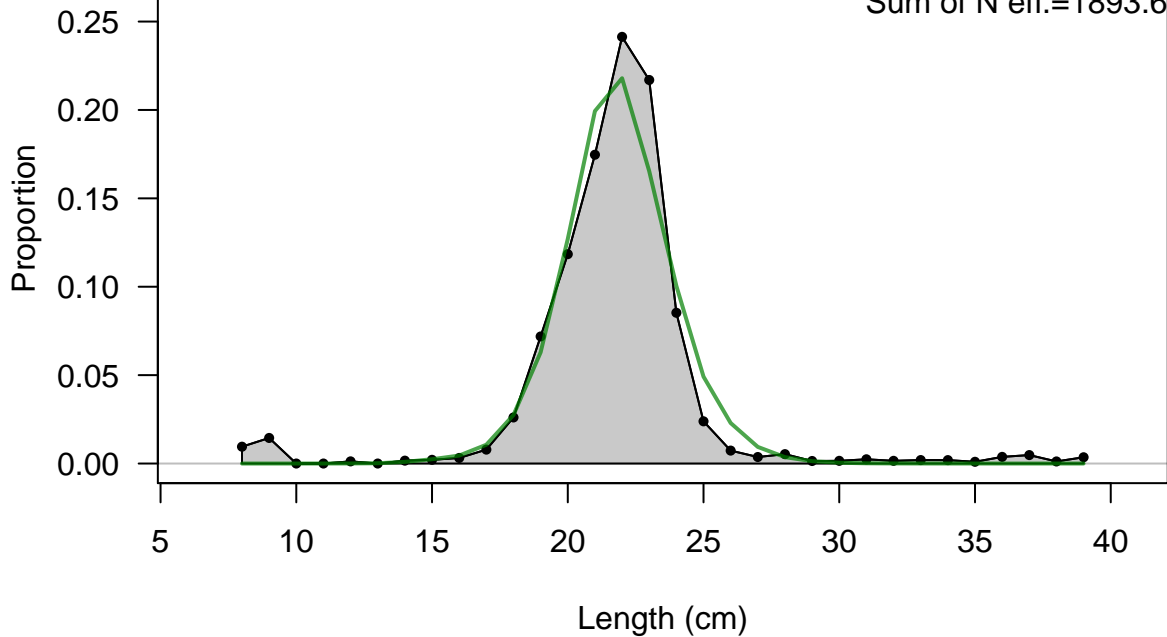


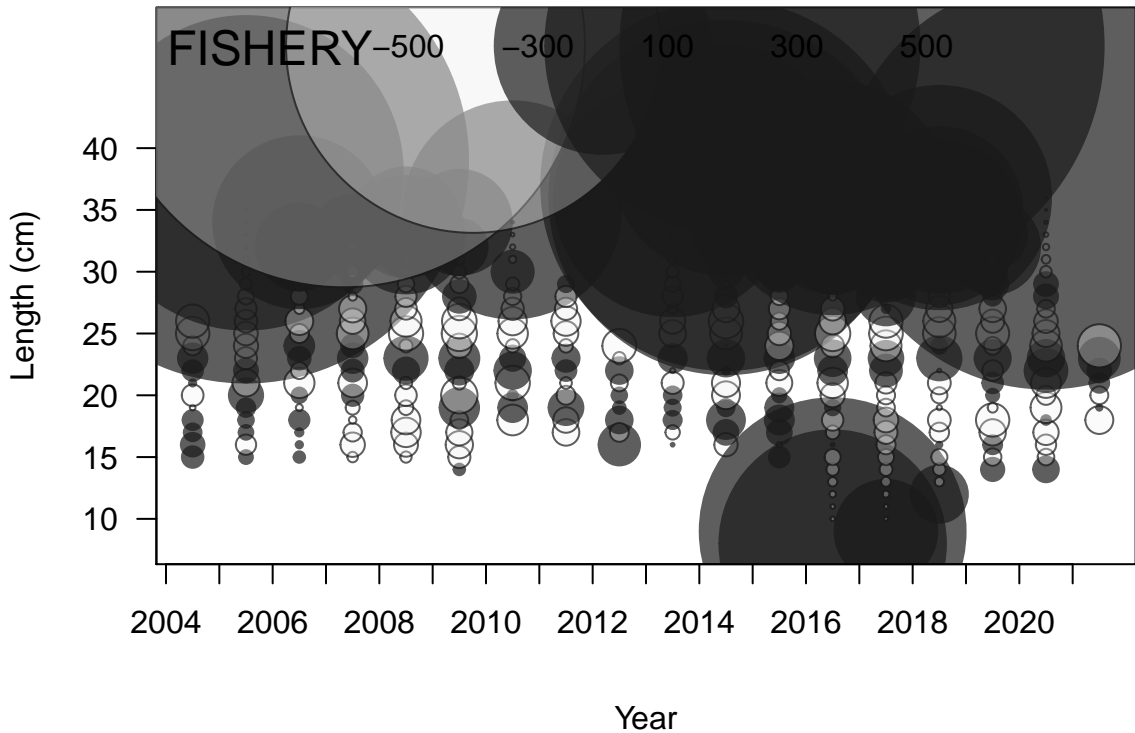
FISHERY (whole catch)

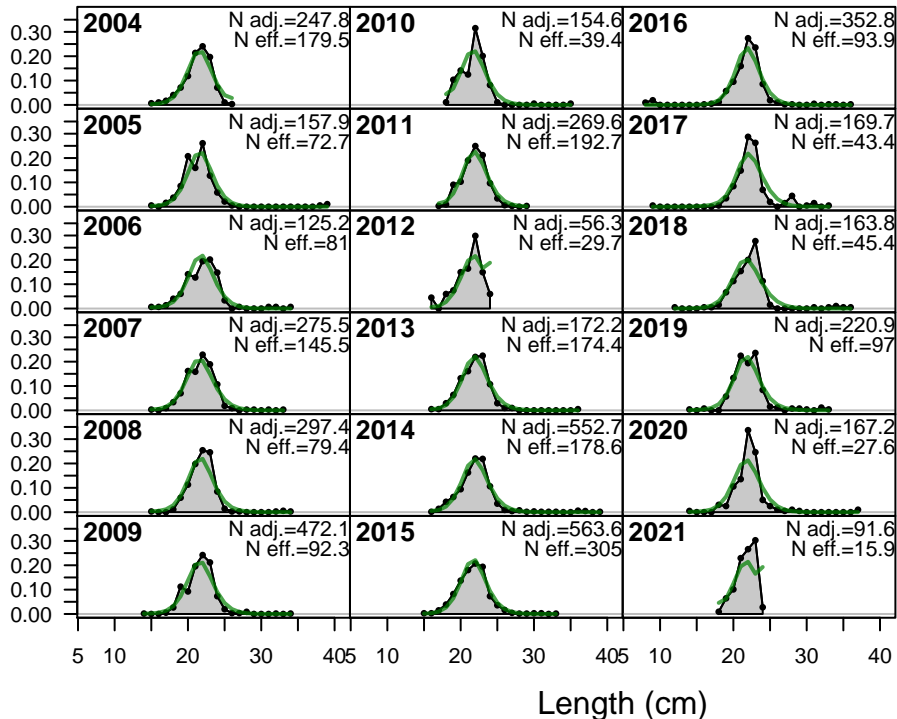


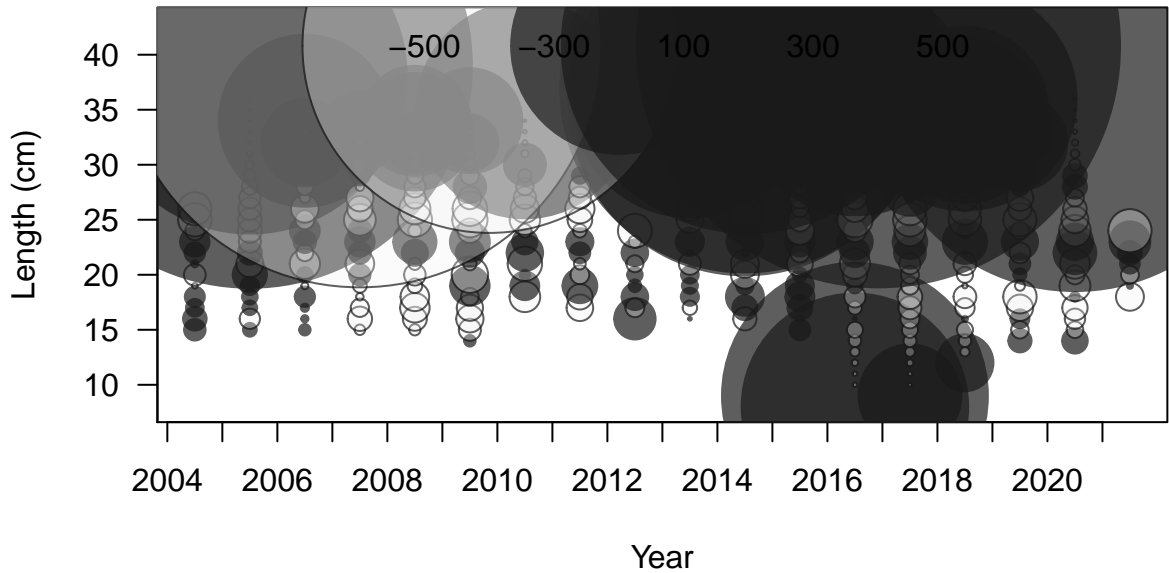
FISHERY

Sum of N adj.=4510.8
Sum of N eff.=1893.6

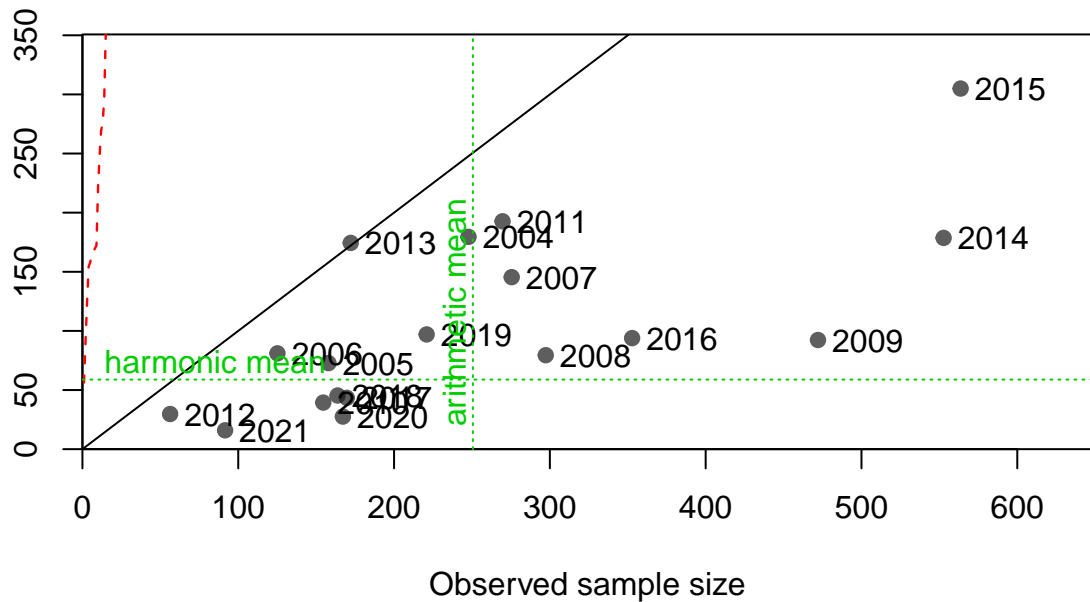




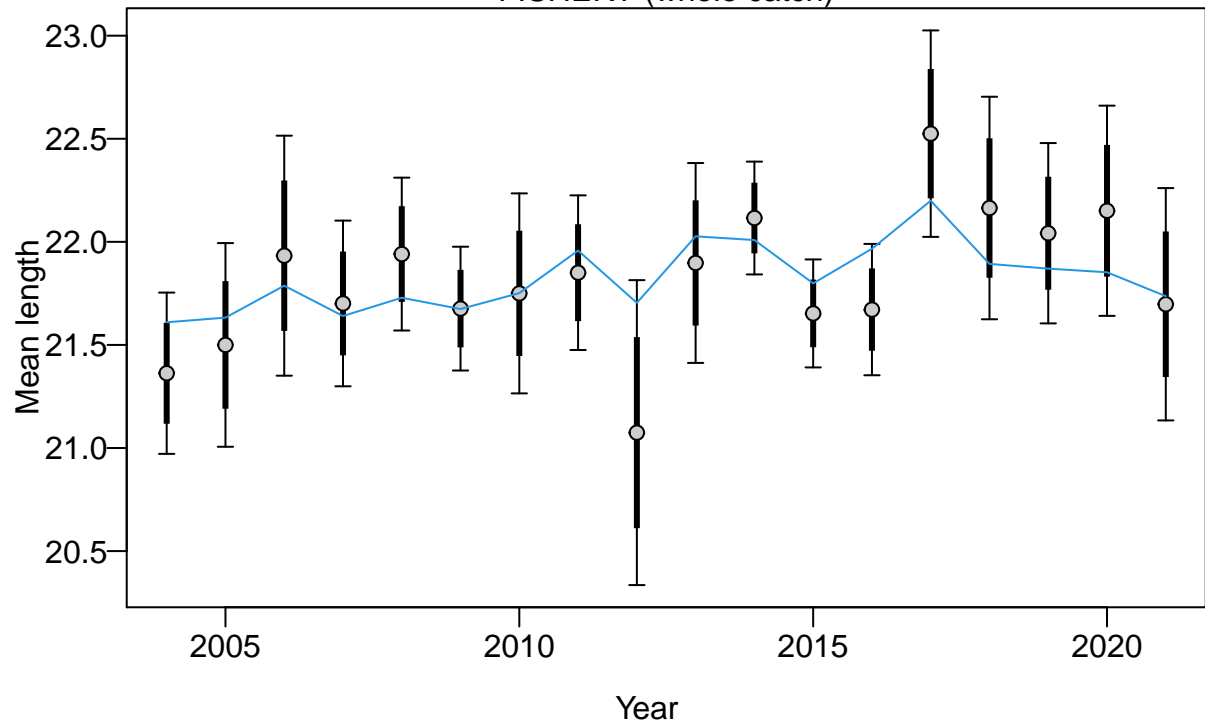


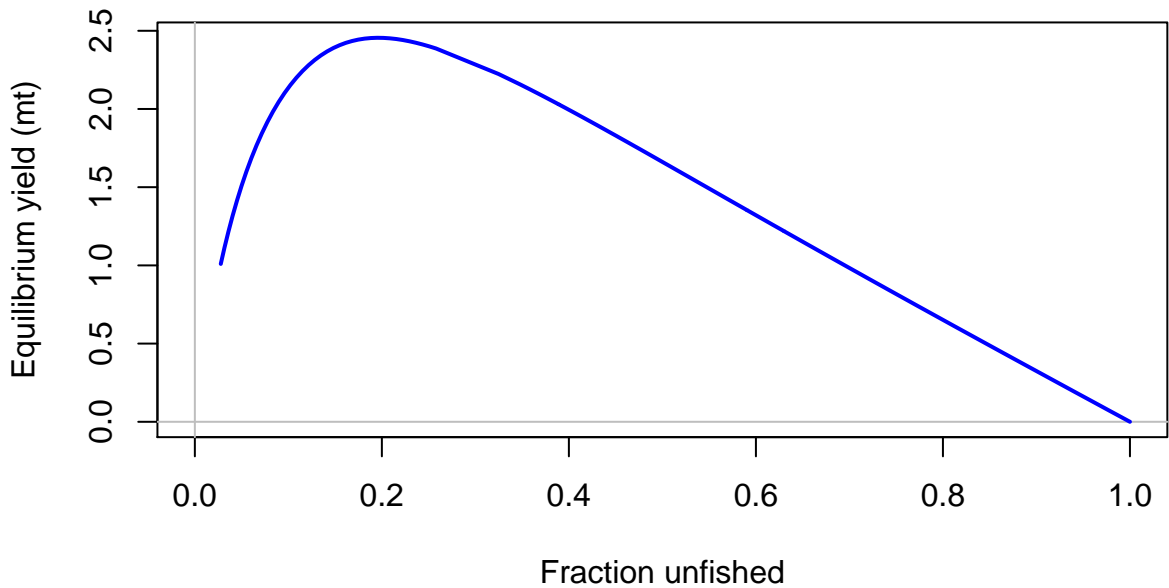


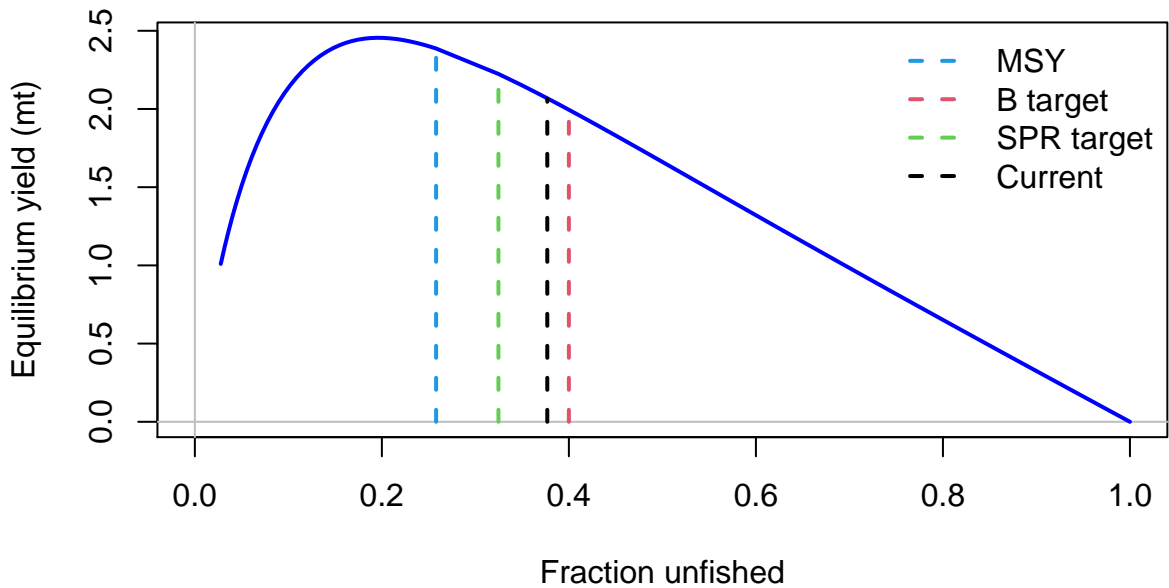
Effective sample size

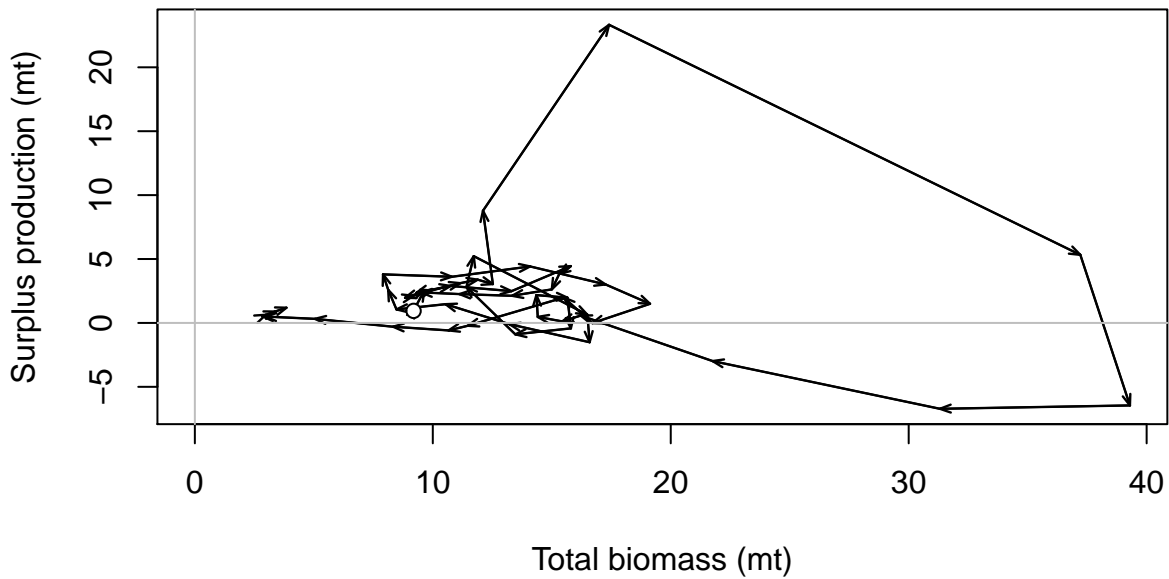


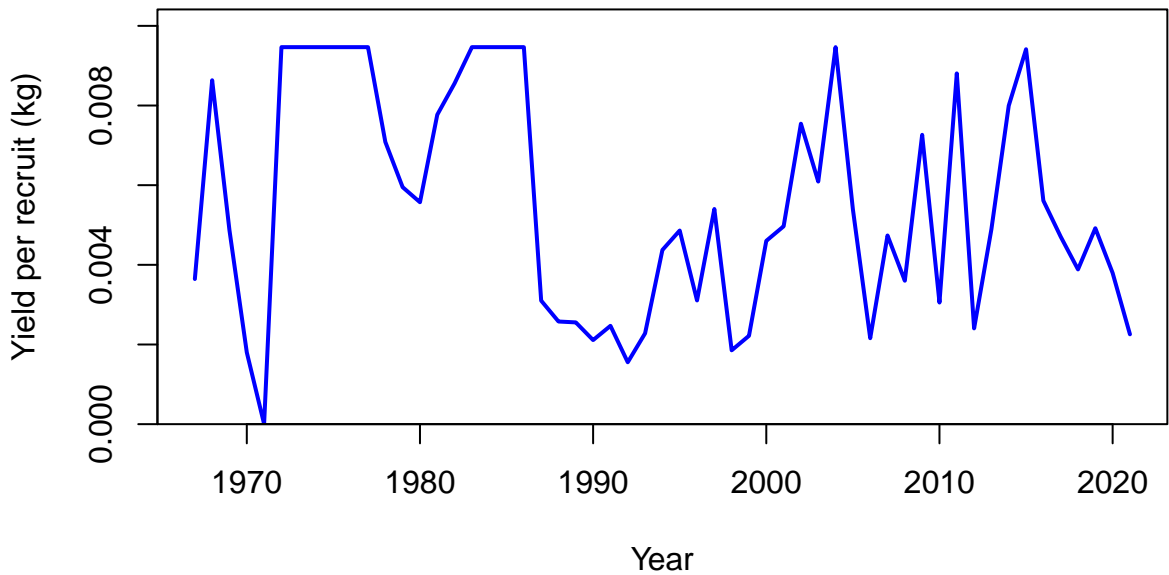
FISHERY (whole catch)

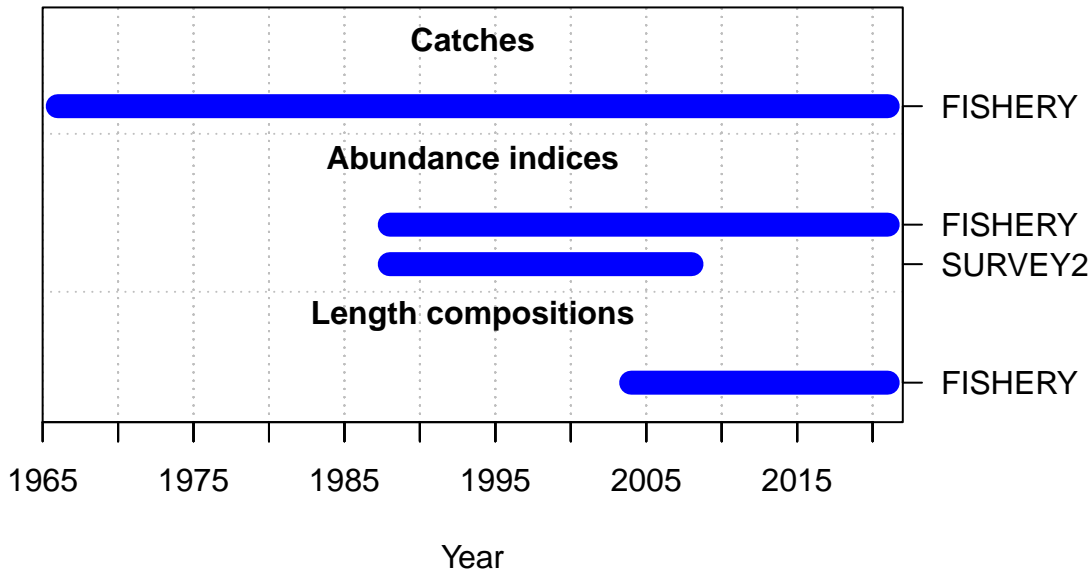


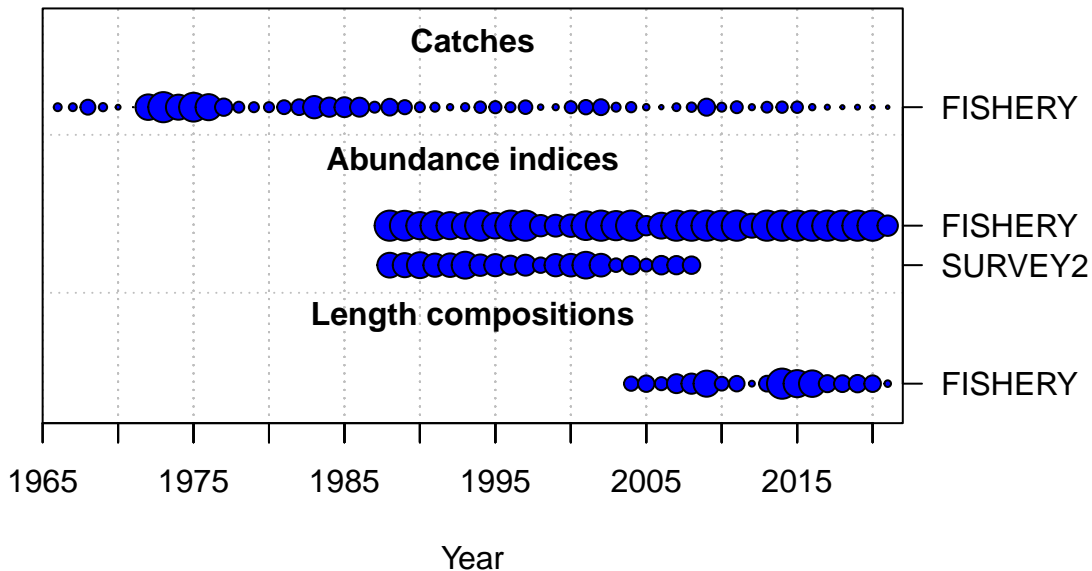




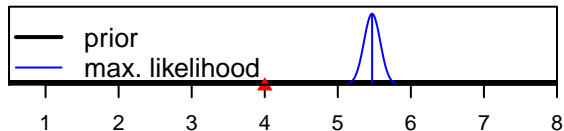




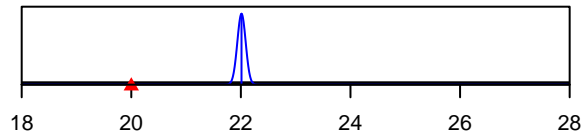




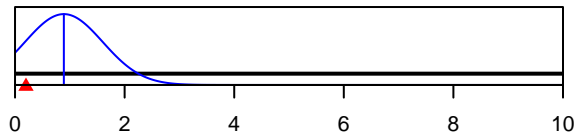
SR_LN(R0)



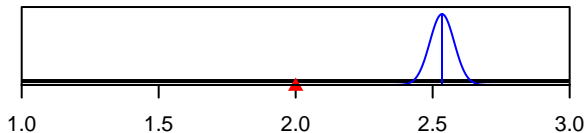
Size_inflection_FISHERY(1)



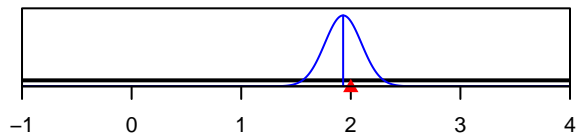
InitF_seas_1_flt_1FISHERY



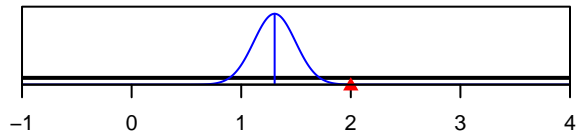
Size_95%width_FISHERY(1)



LnQ_base_FISHERY(1)



LnQ_base_SURVEY2(2)



Parameter value