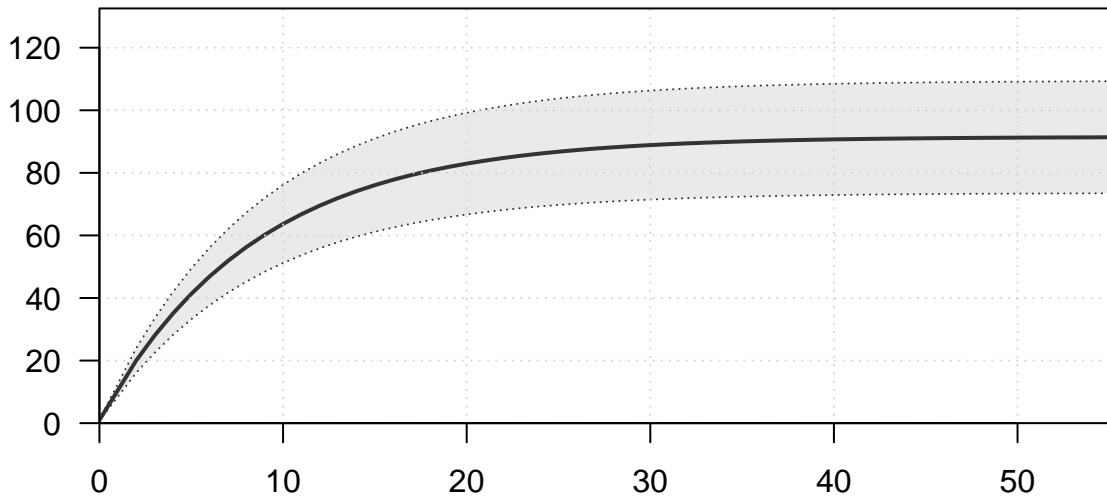
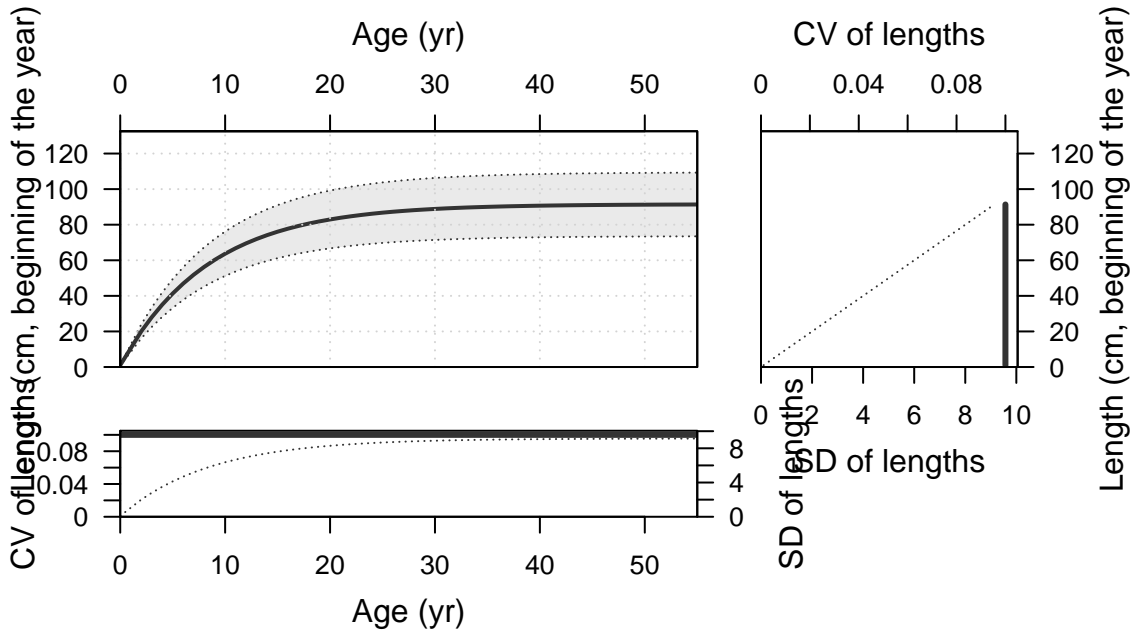


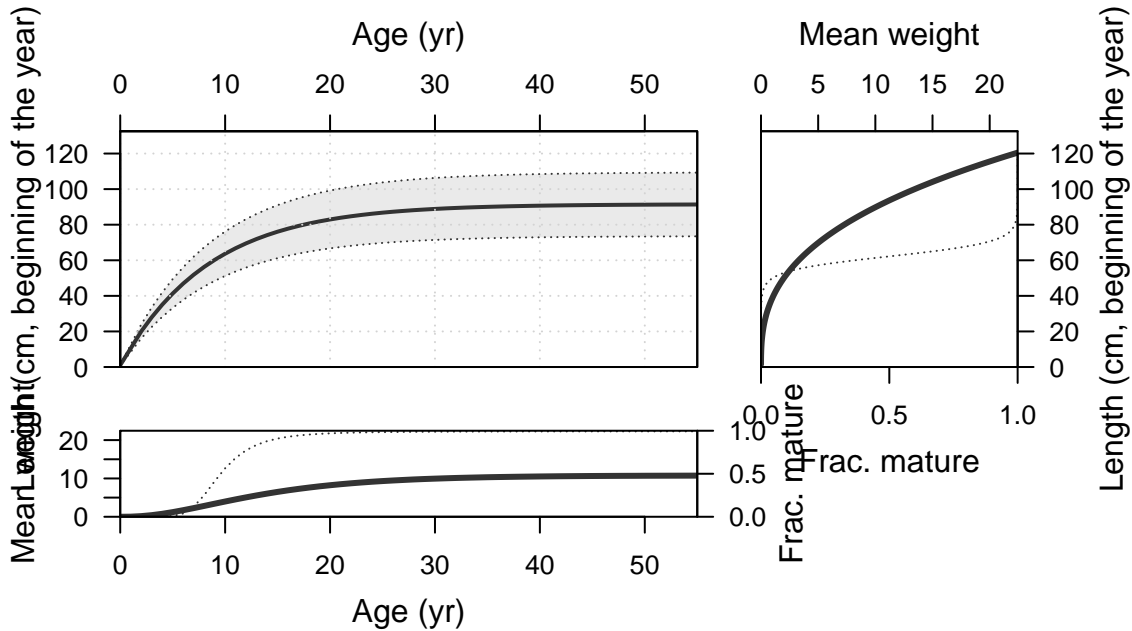
Plots created using the 'r4ss' package in R
Stock Synthesis version: 3.30.19.0
StartTime: Thu Jul 07 13:08:38 2022
Data_File: data.ss
Control_File: control.ss

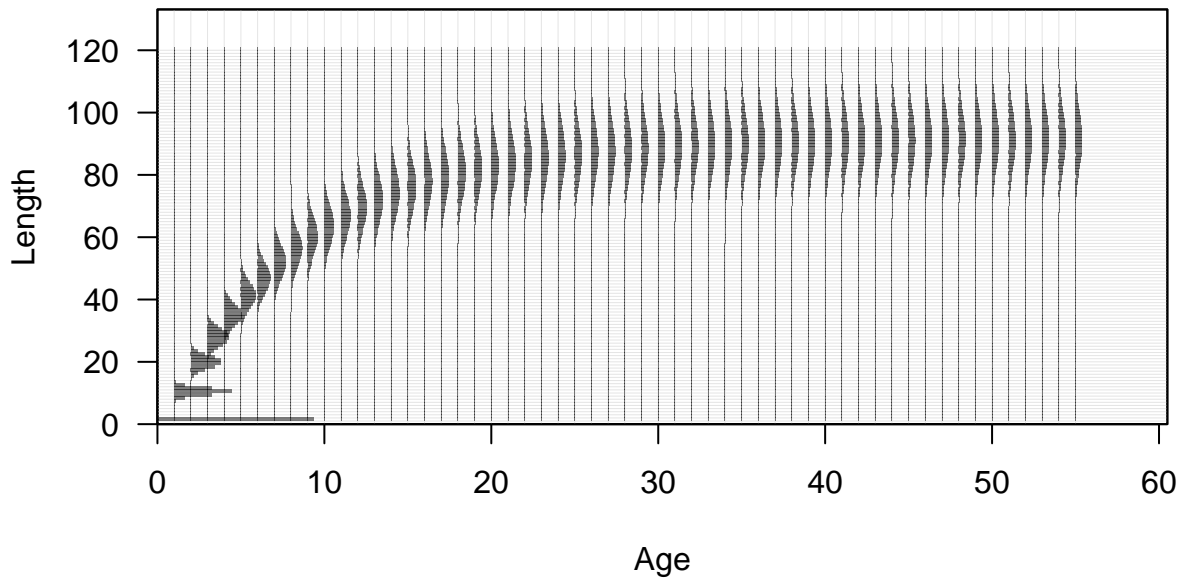
Length (cm, beginning of the year)

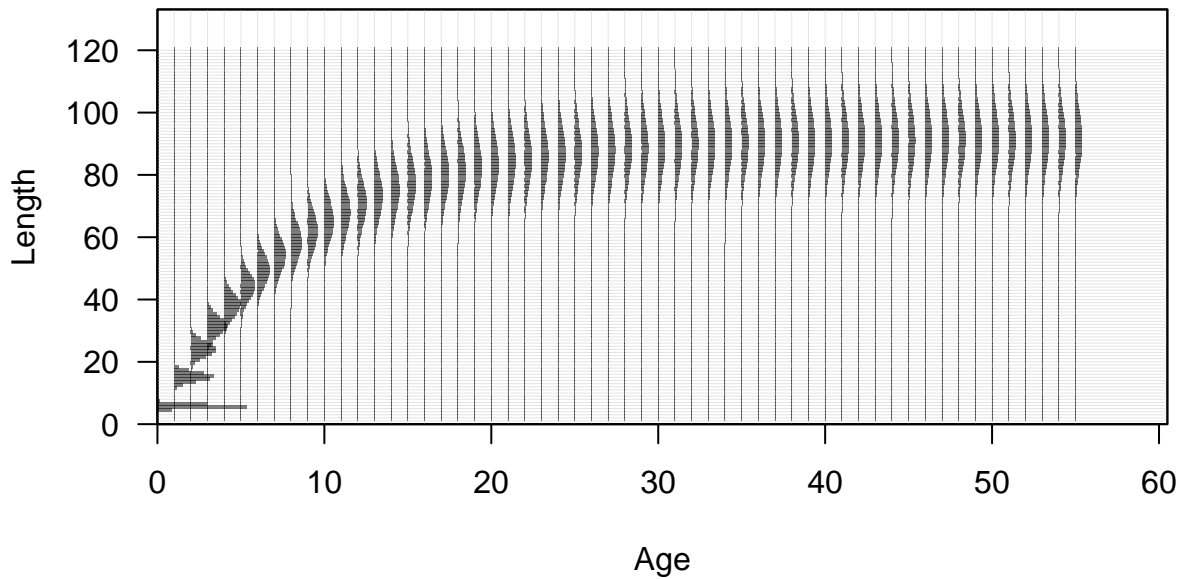


Age (yr)

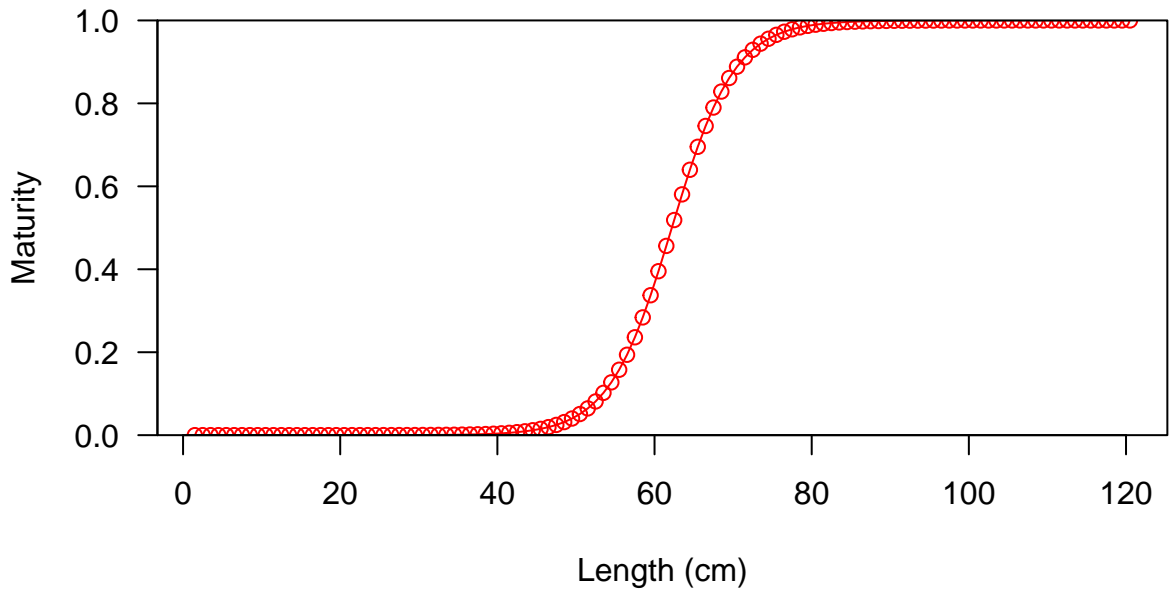














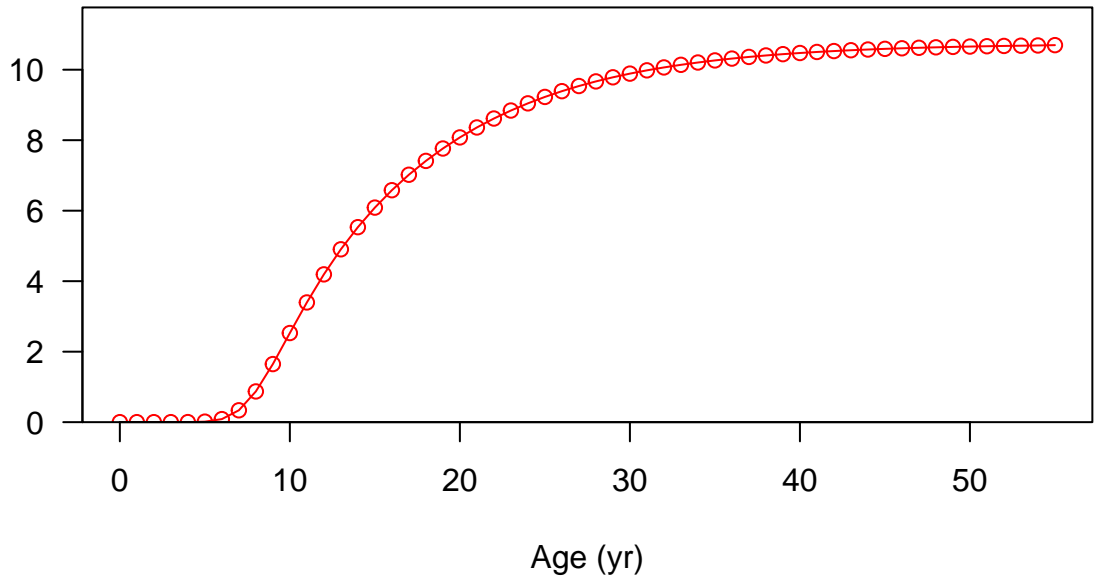


Fecundity

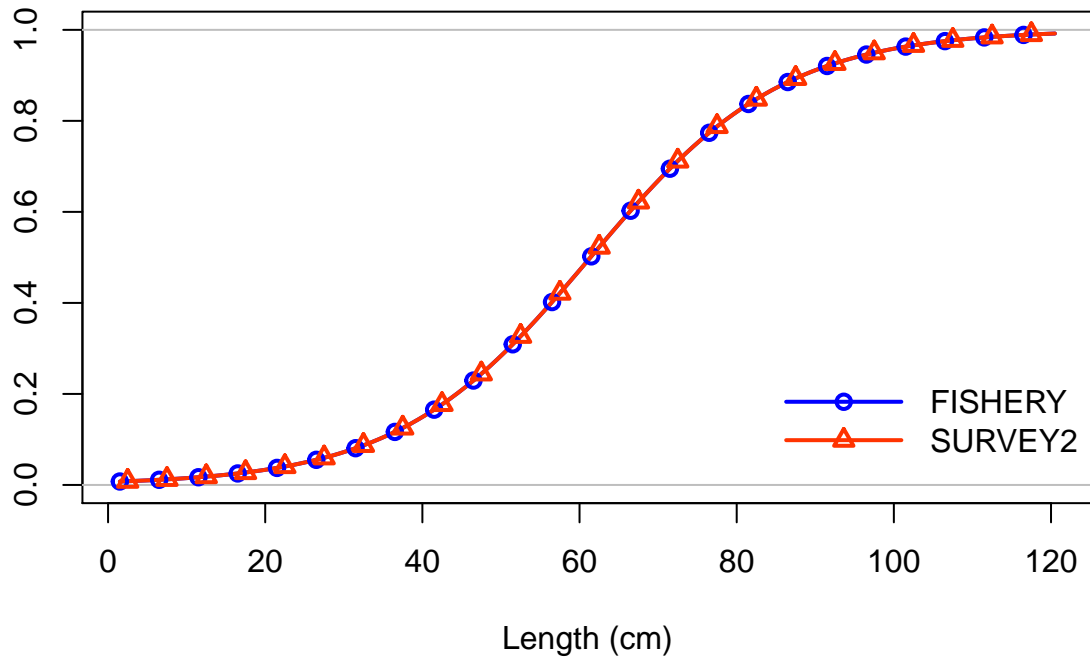




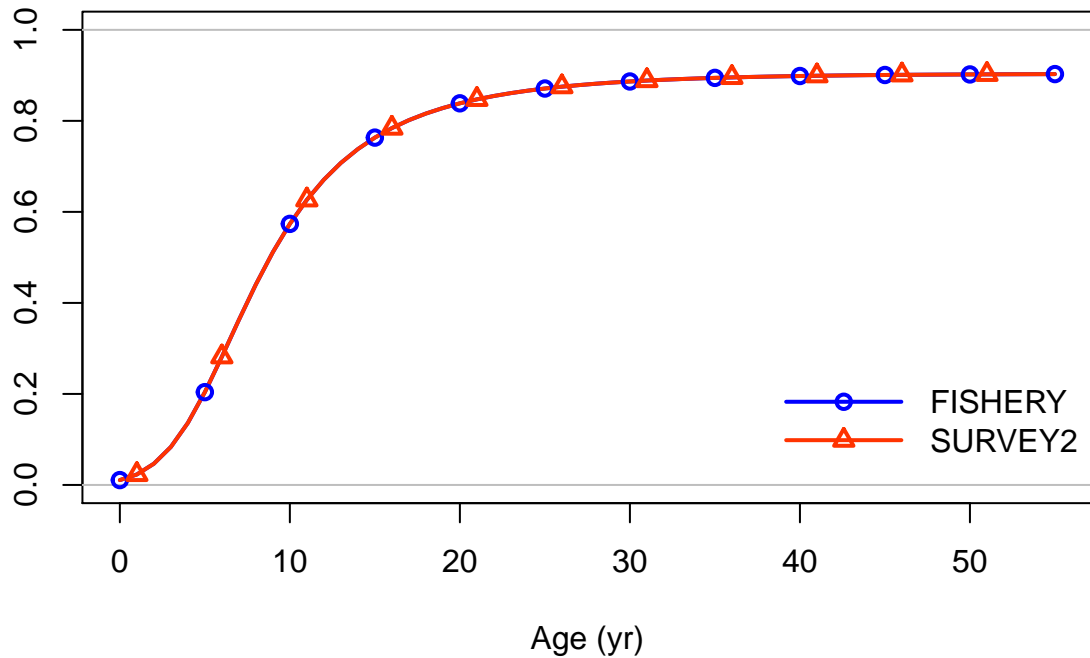
Spawning output



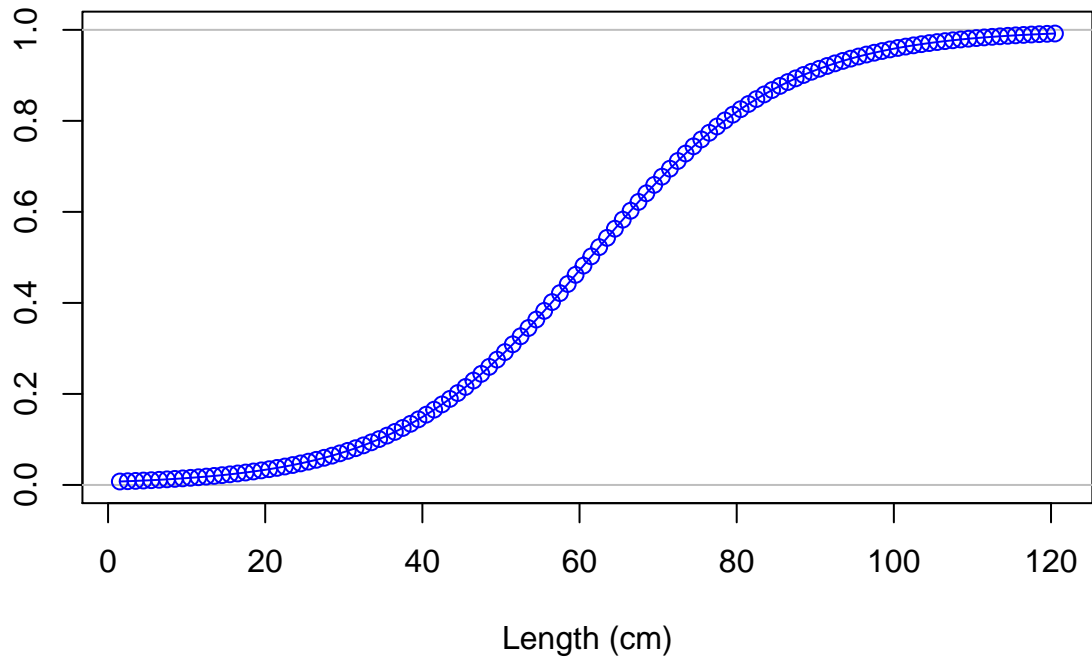
Selectivity



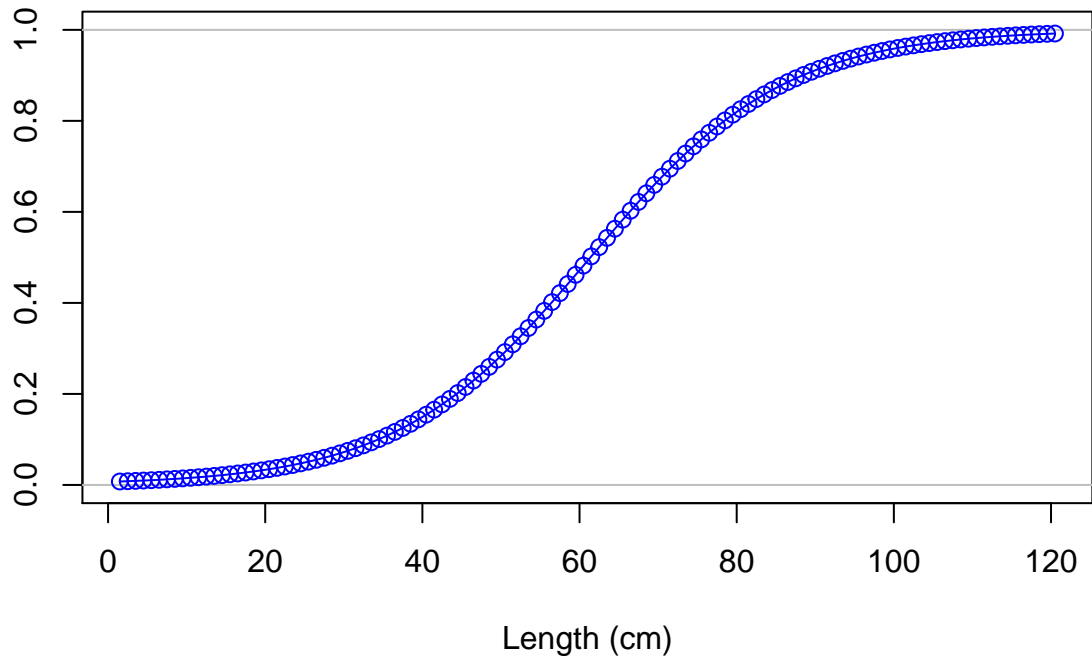
Selectivity

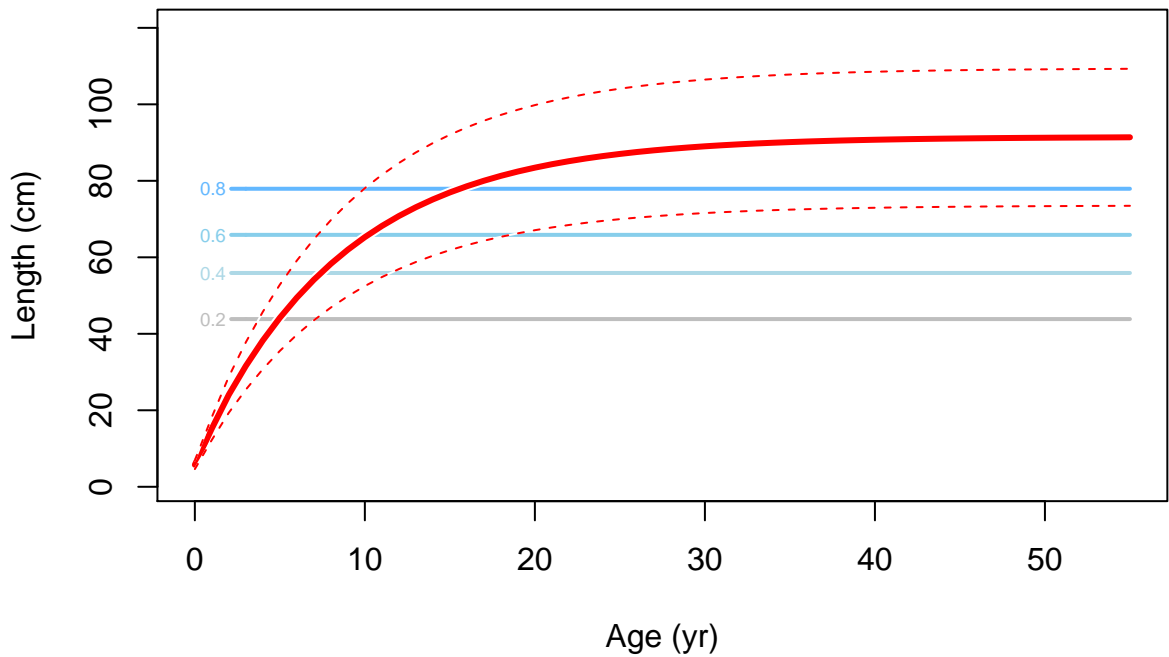


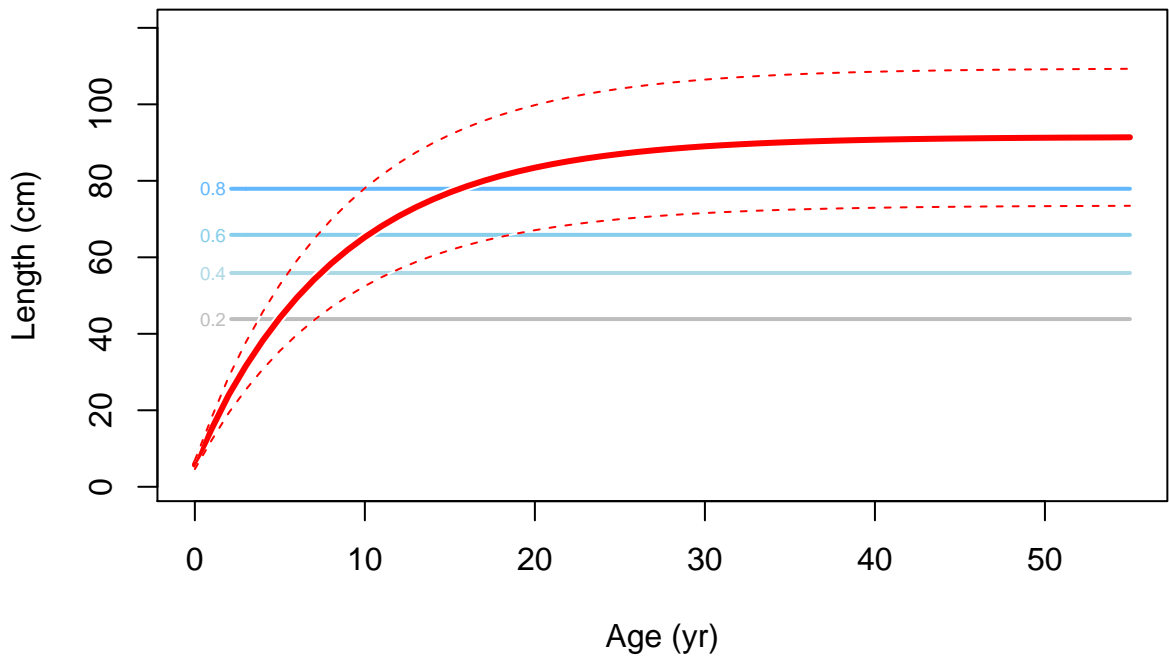
Selectivity



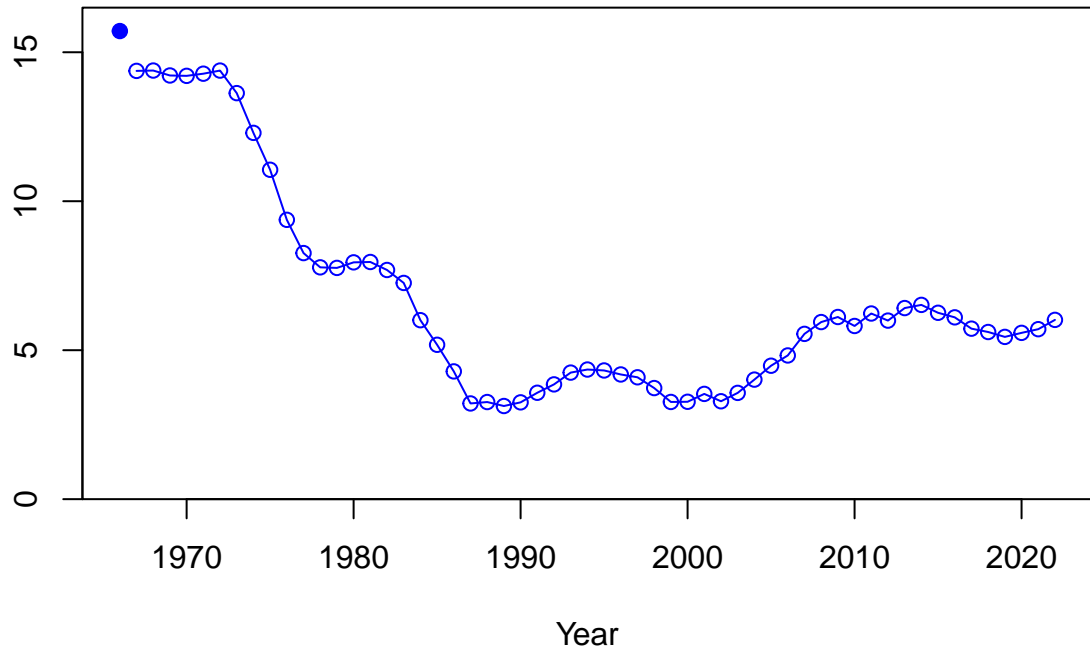
Selectivity

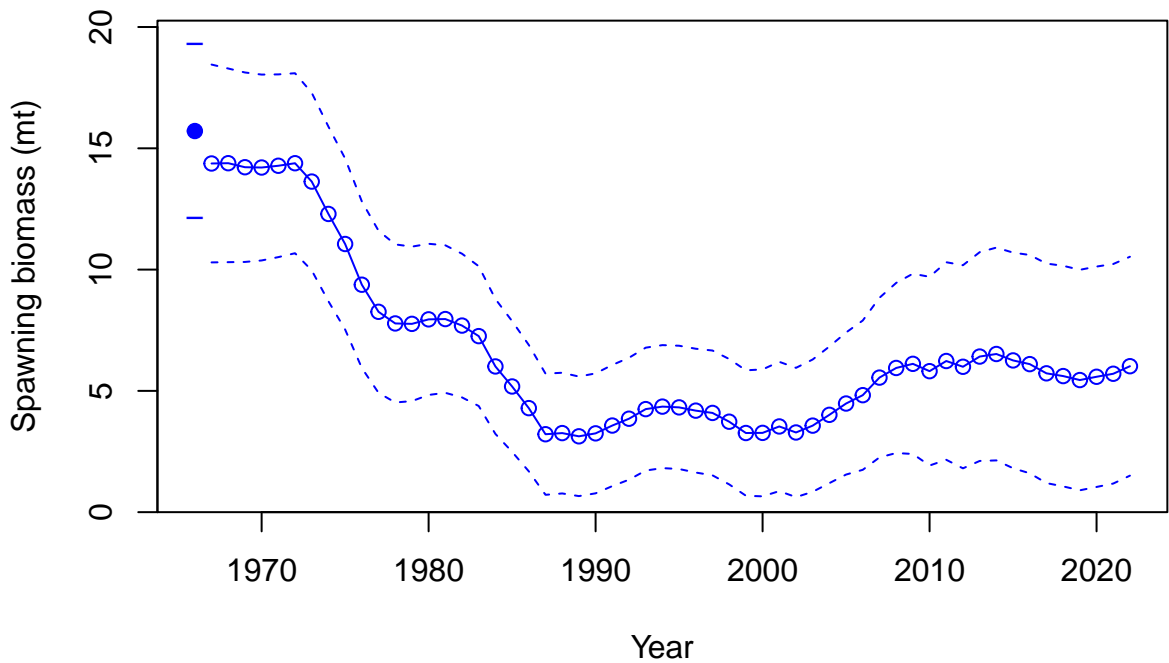




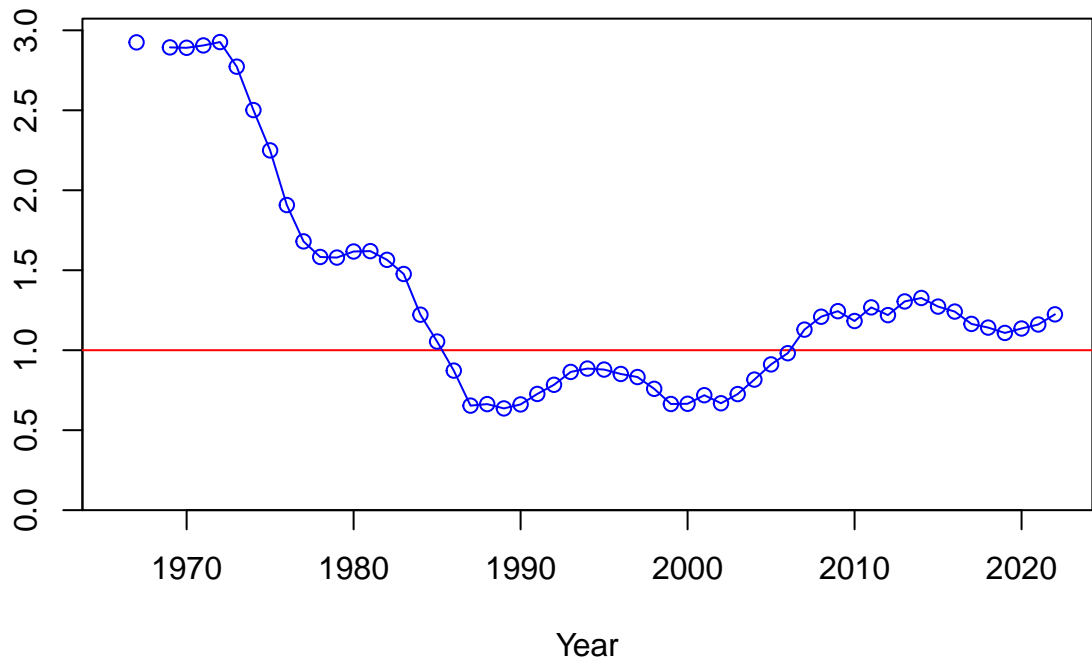


Spawning biomass (mt)

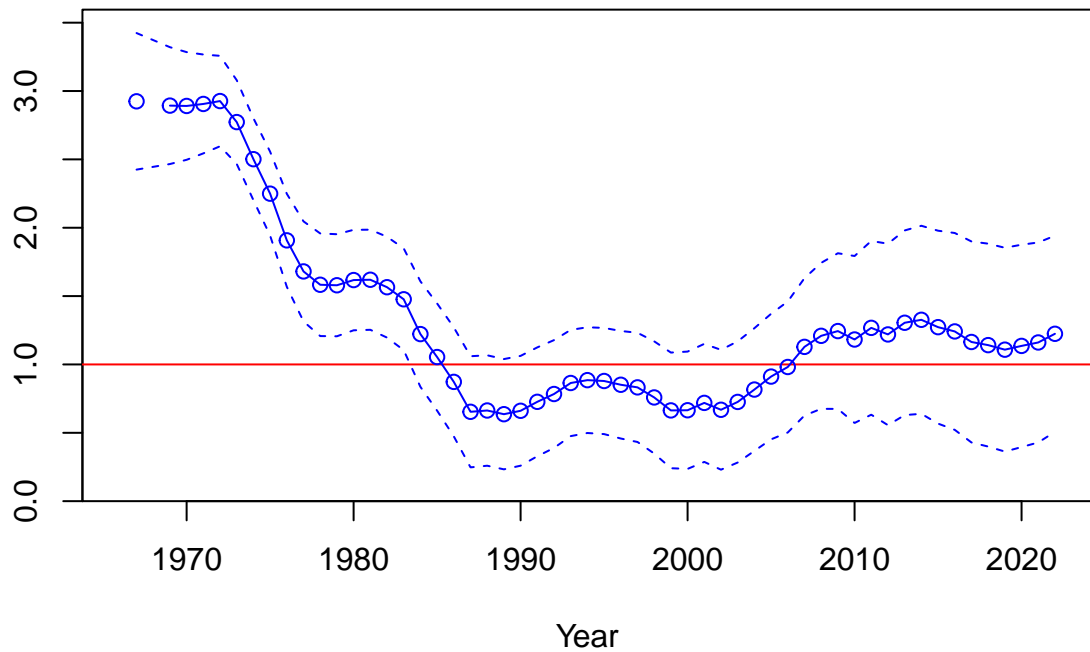


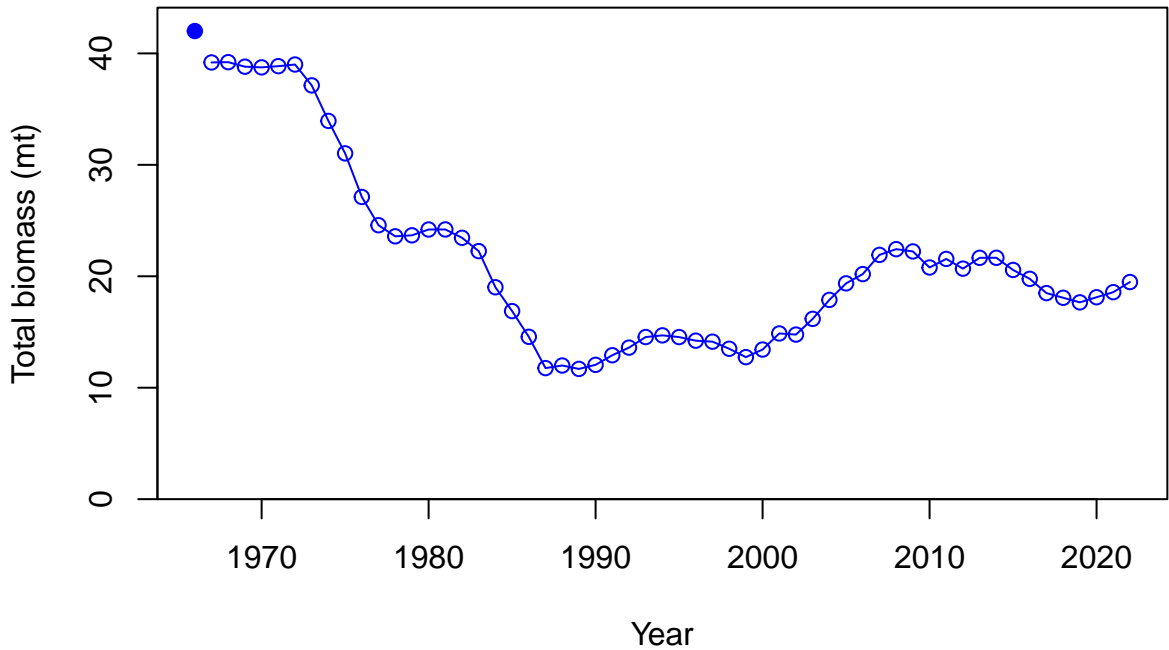


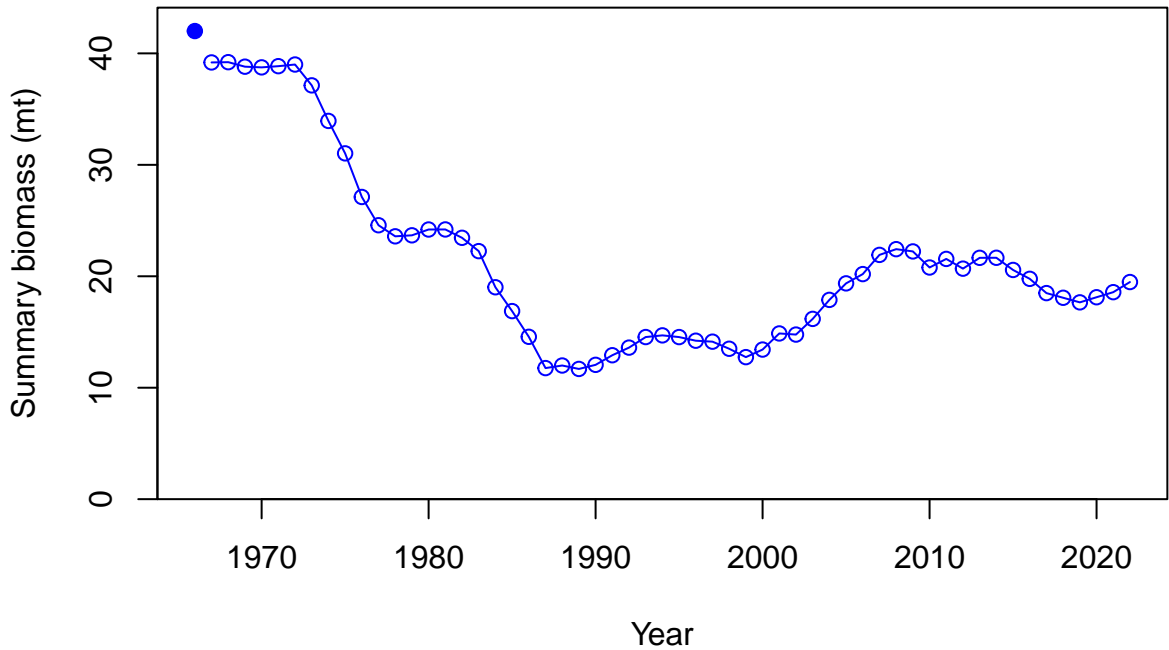
Relative spawning biomass: B/B_{MSY}

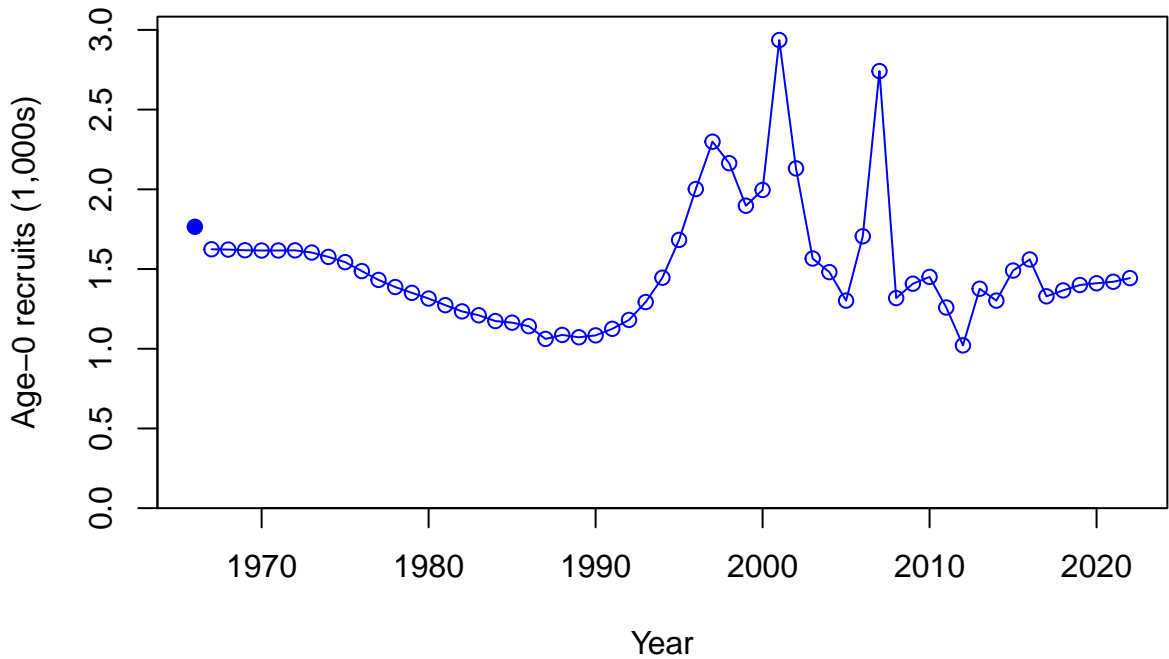


Relative spawning biomass: B/B_{MSY}

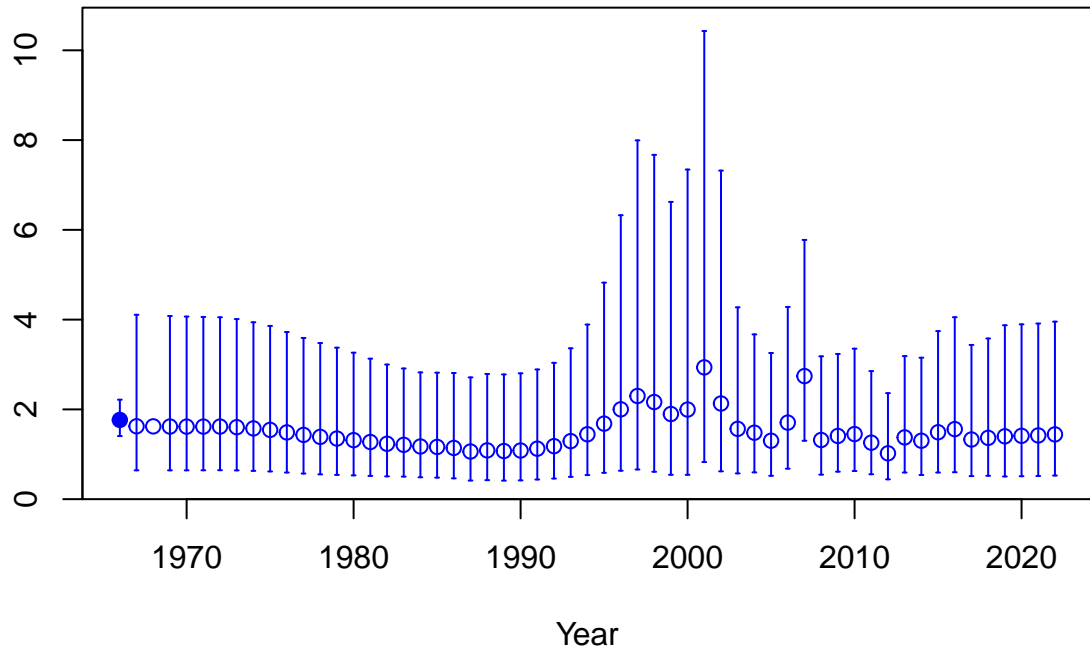




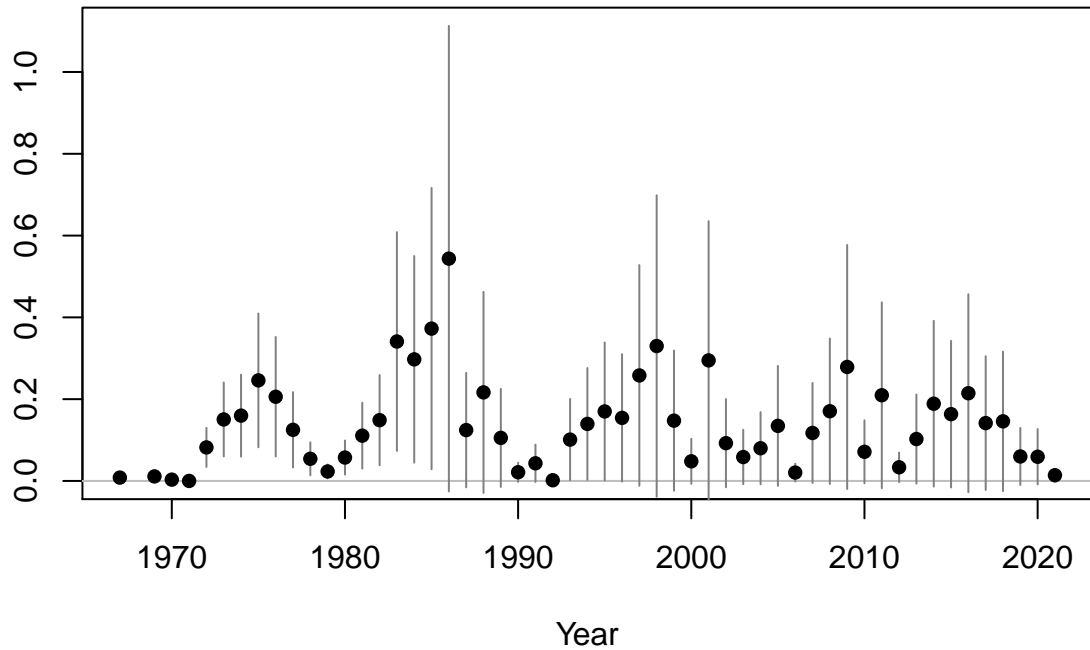


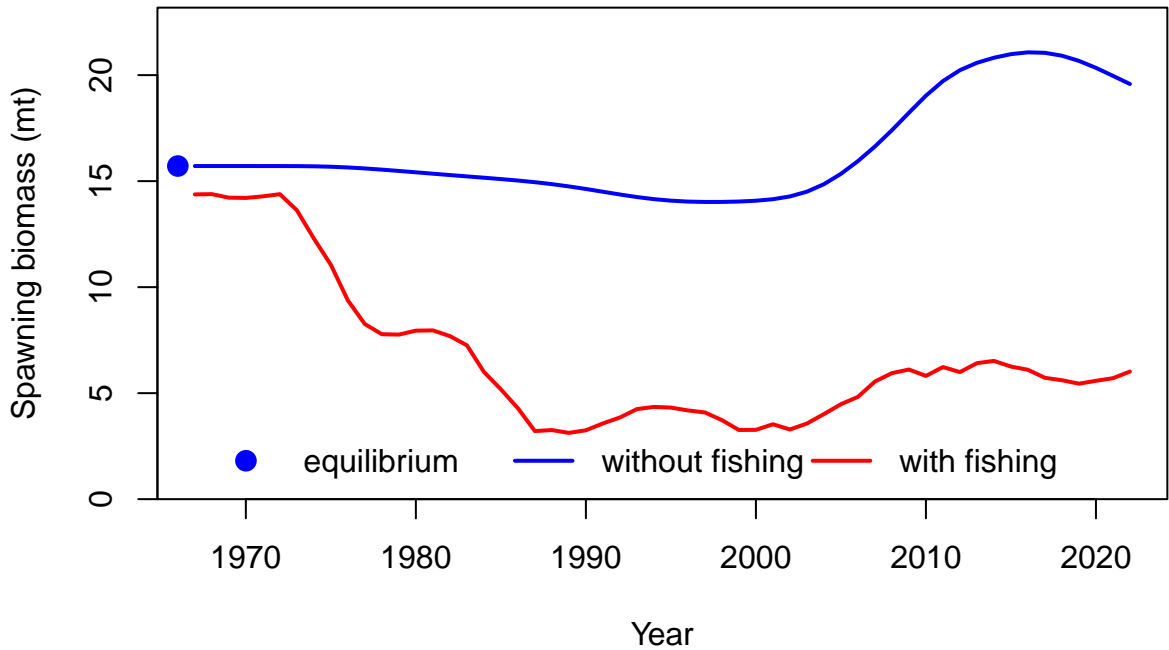


Age-0 recruits (1,000s)



Summary Fishing Mortality





Log recruitment deviation

-0.2 0.2 0.4 0.6 0.8

1970

1980

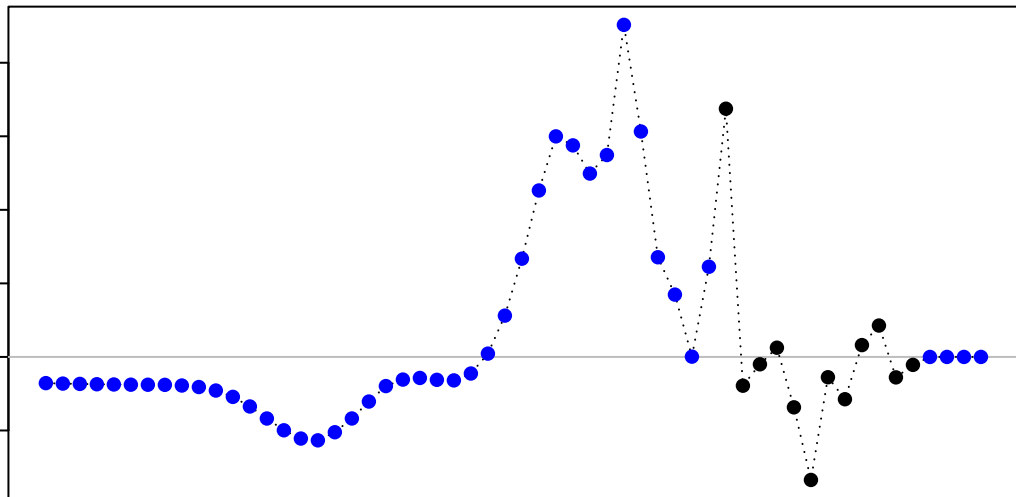
1990

2000

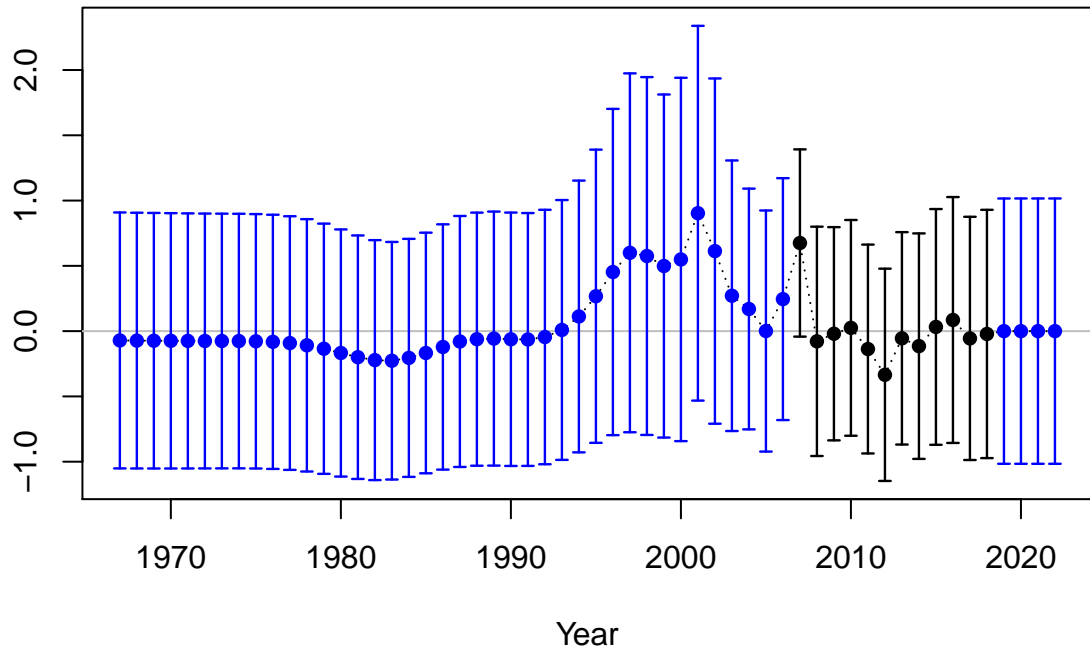
2010

2020

Year

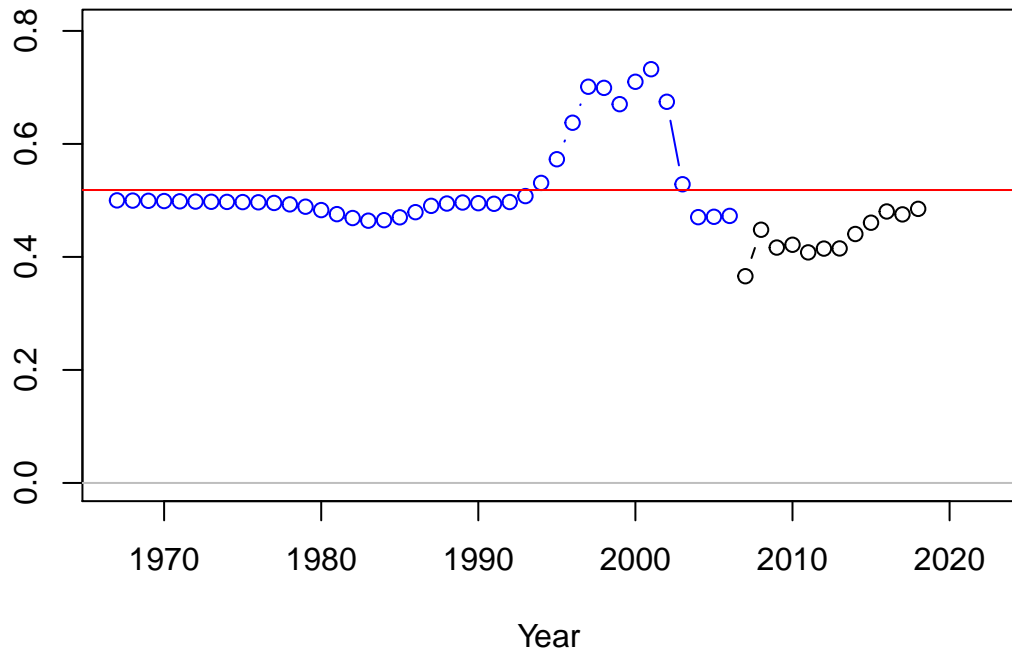


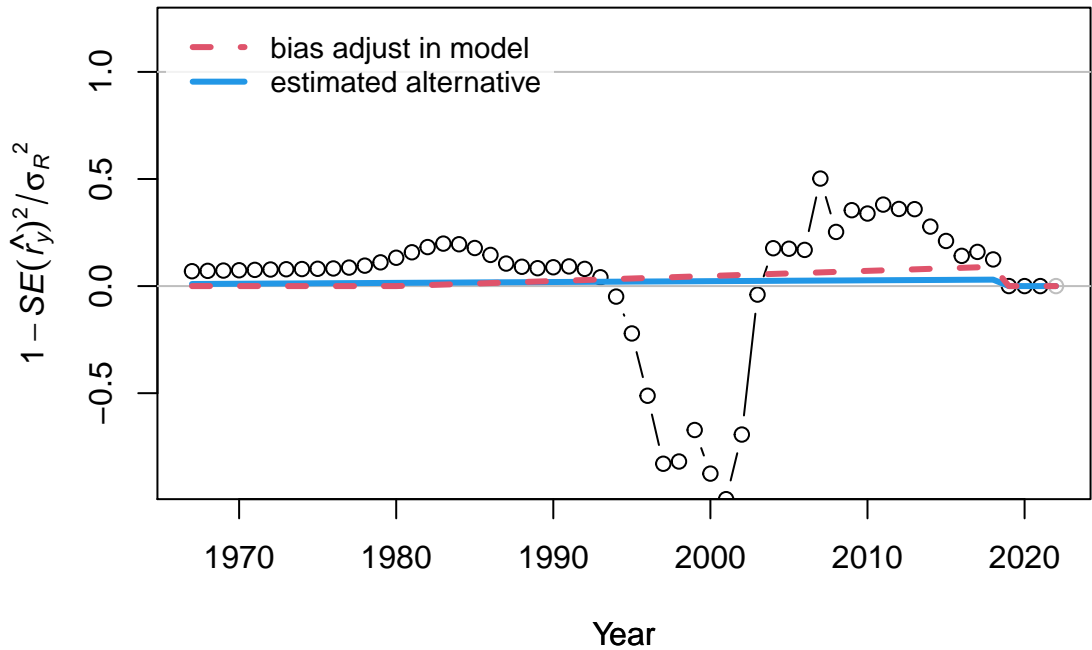
Log recruitment deviation

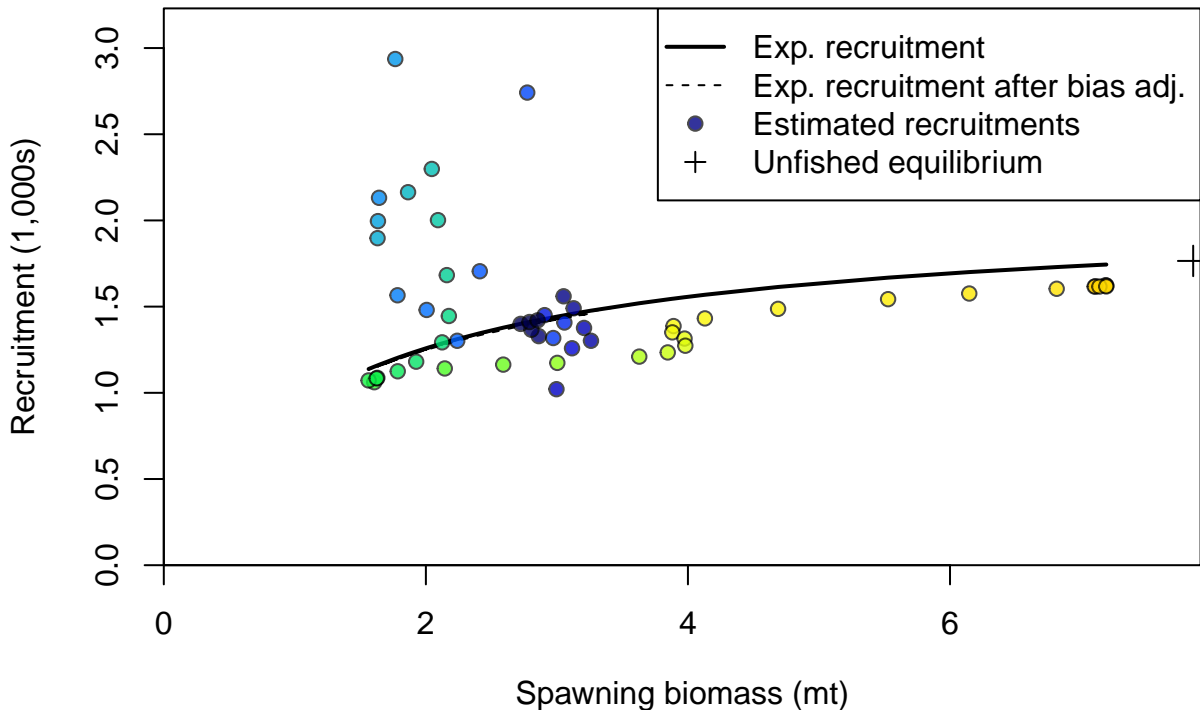


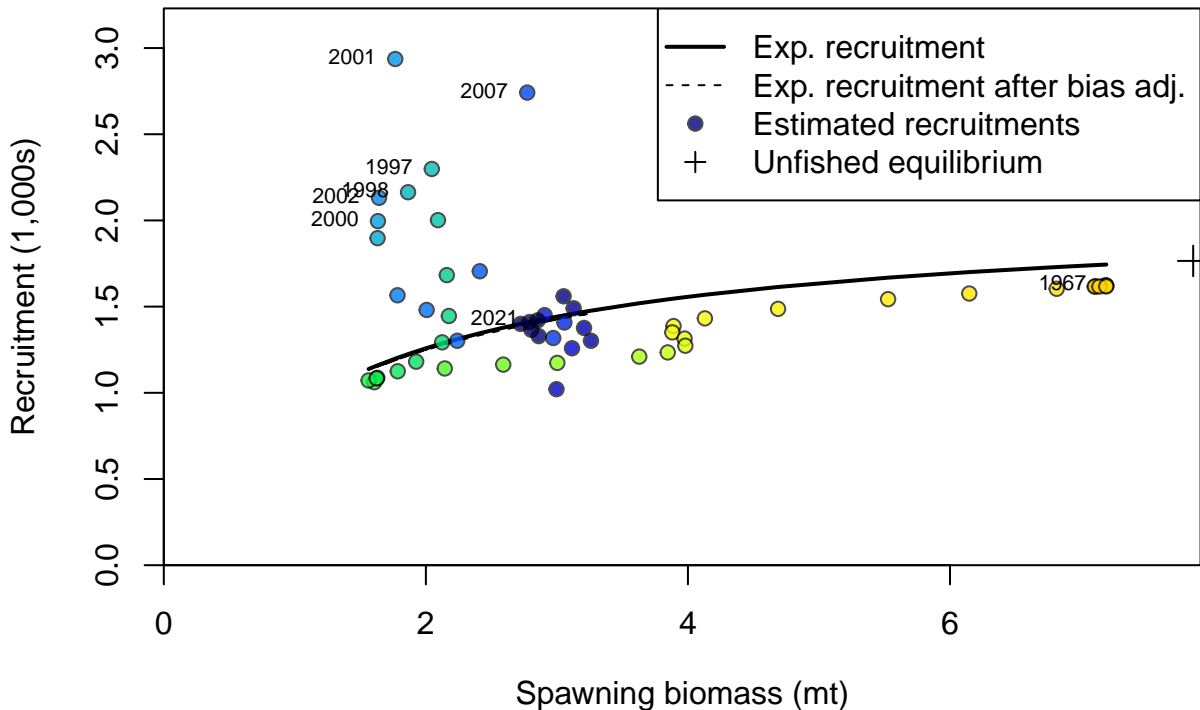
Recruitment deviation variance

Asymptotic standard error estimate

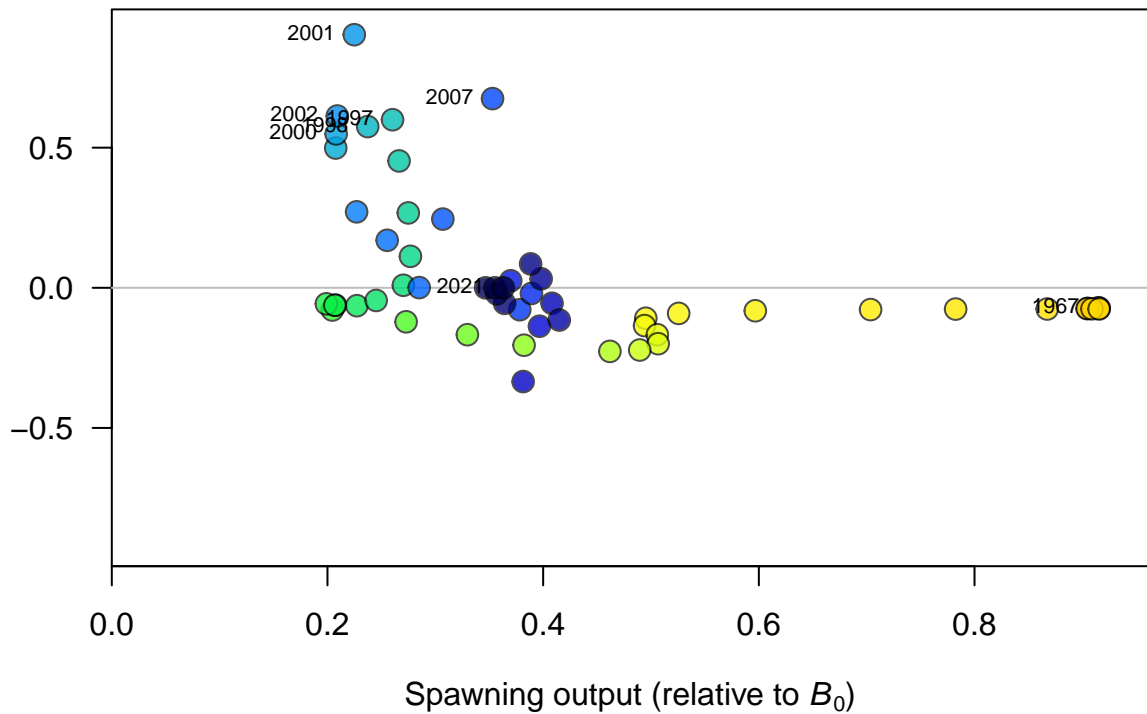


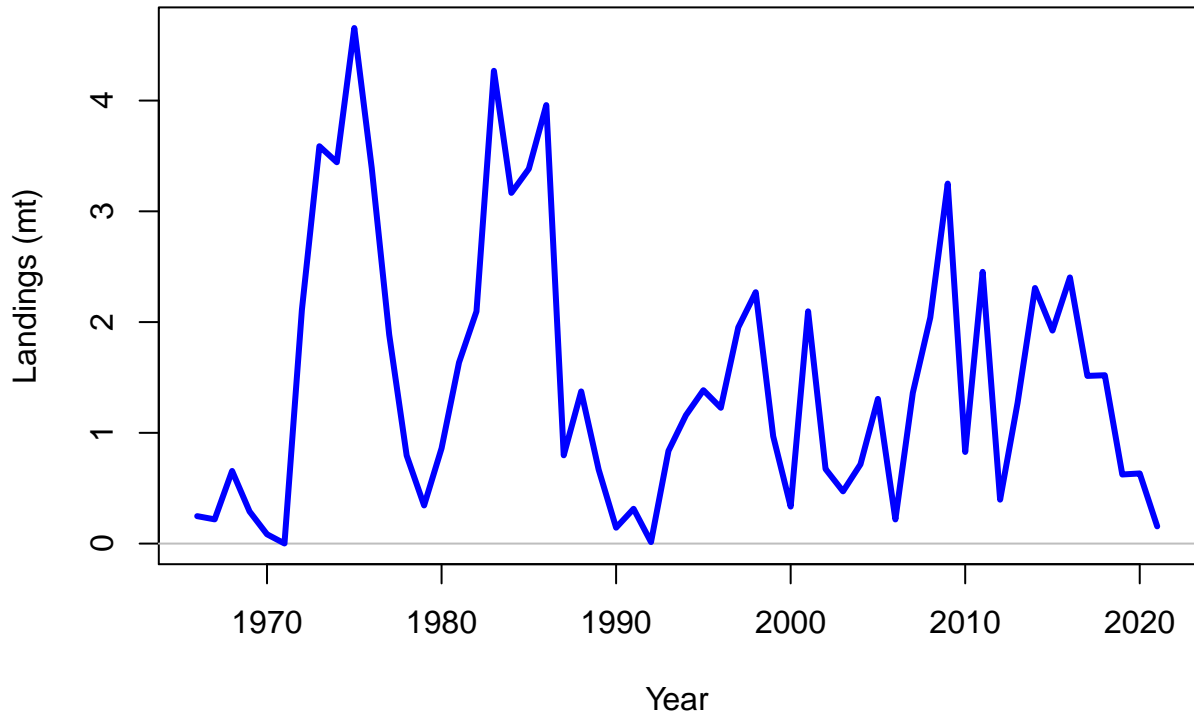


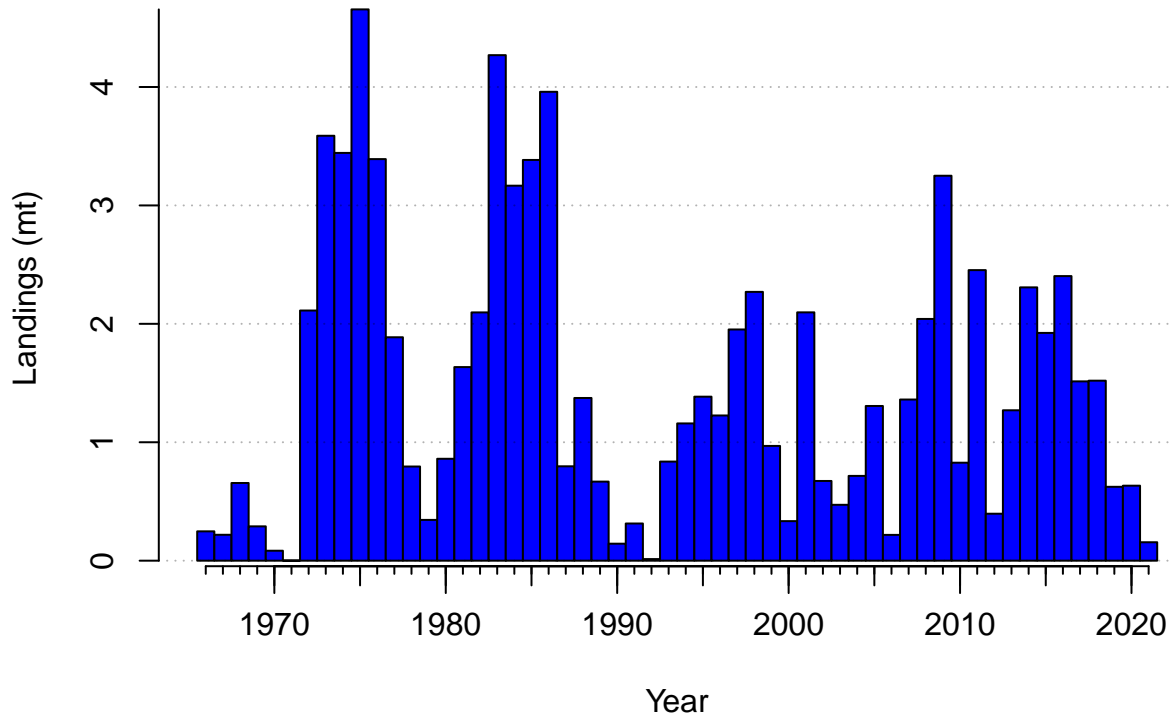




Log recruitment deviation

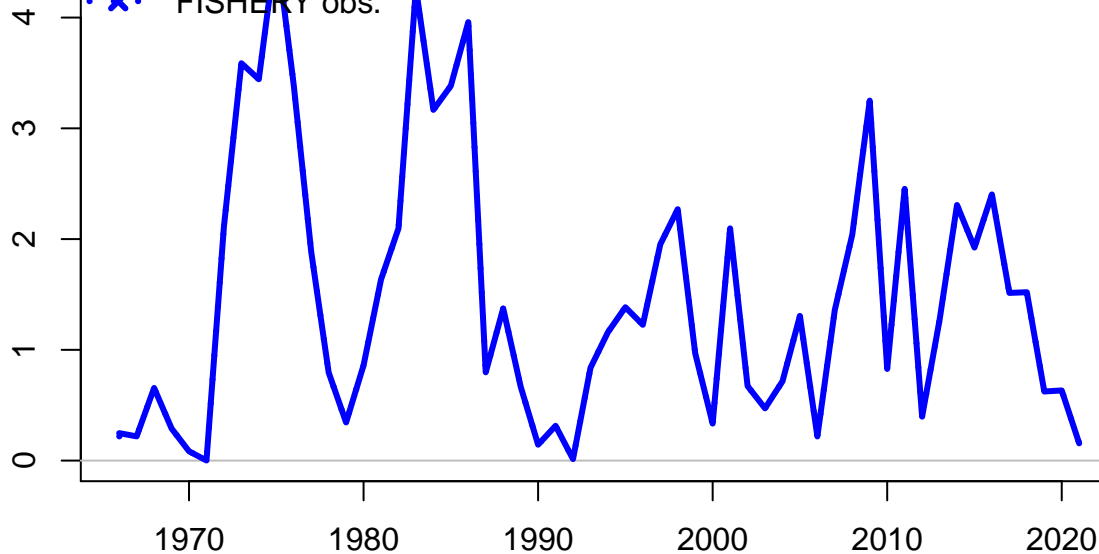




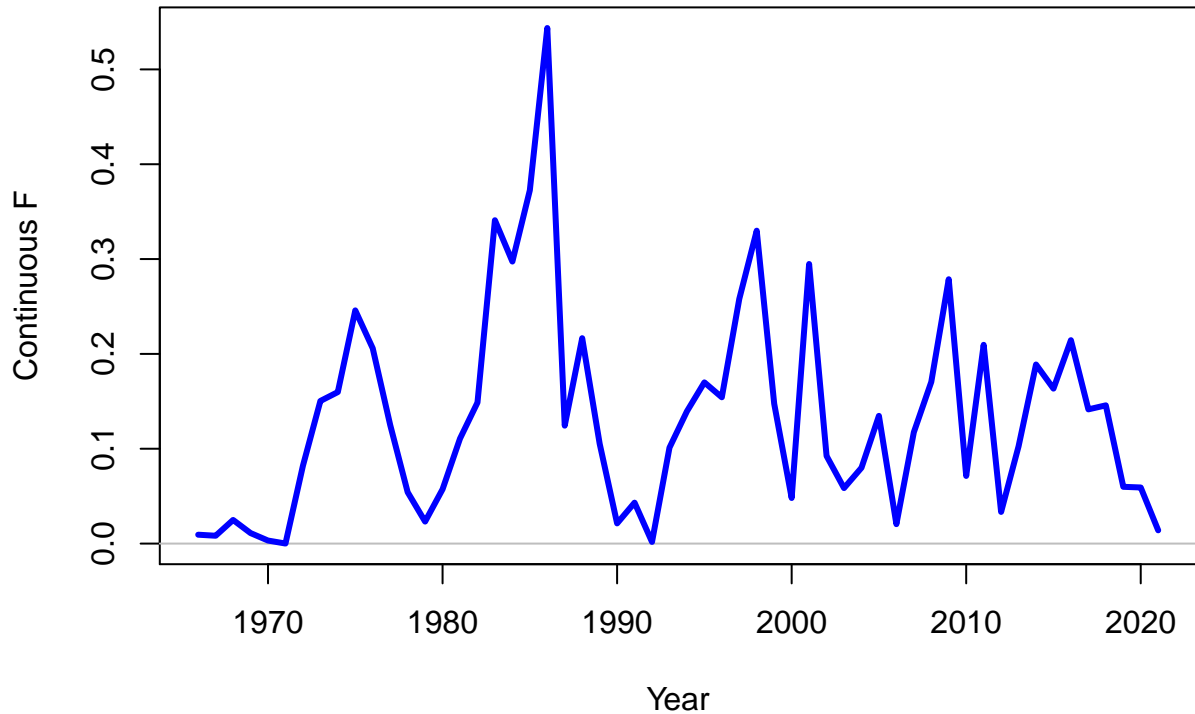


Observed and expected Landings (mt)

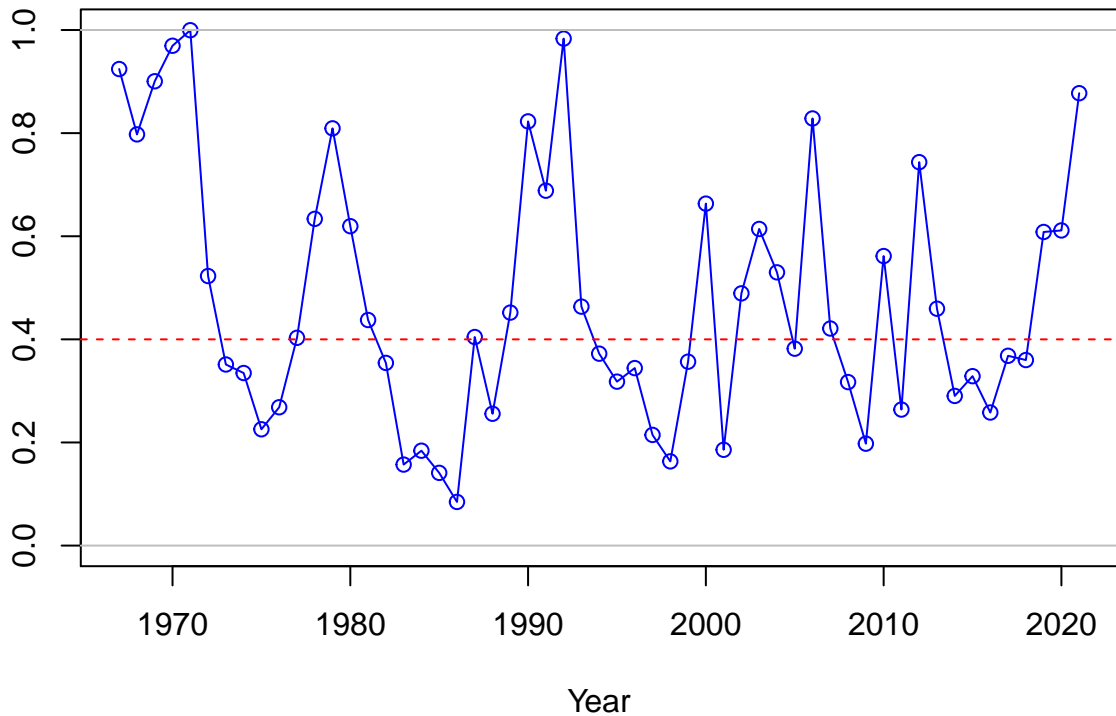
FISHERY
FISHERY obs.

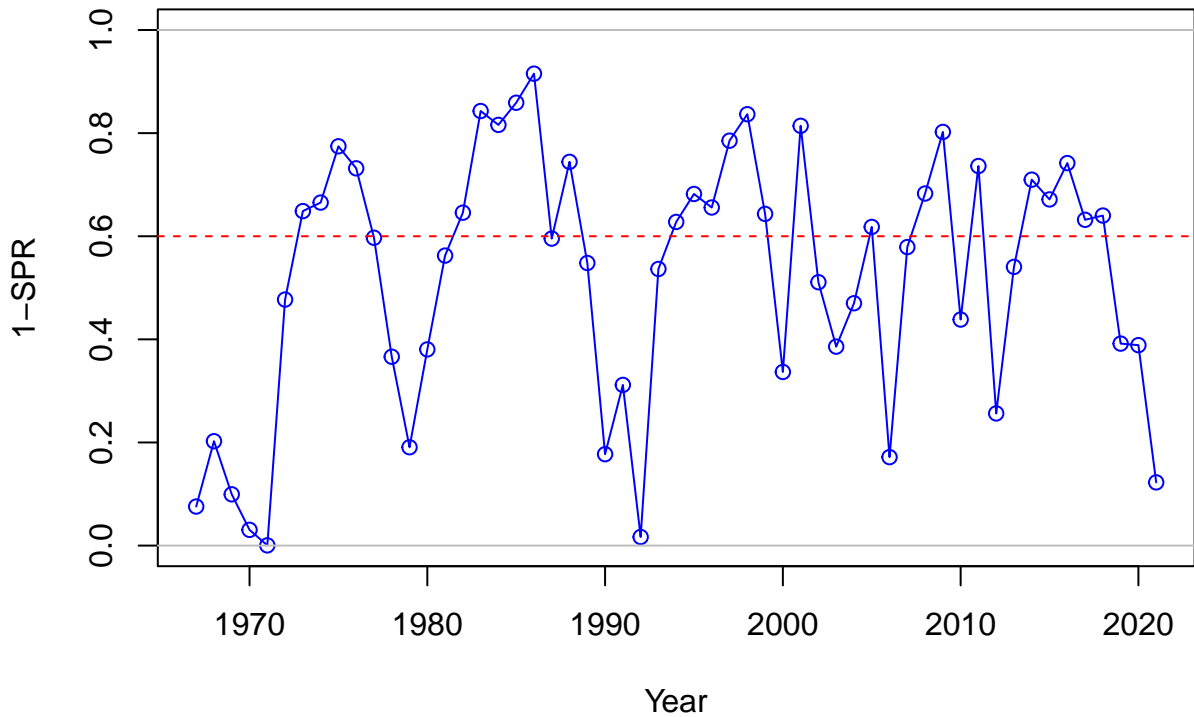


Year

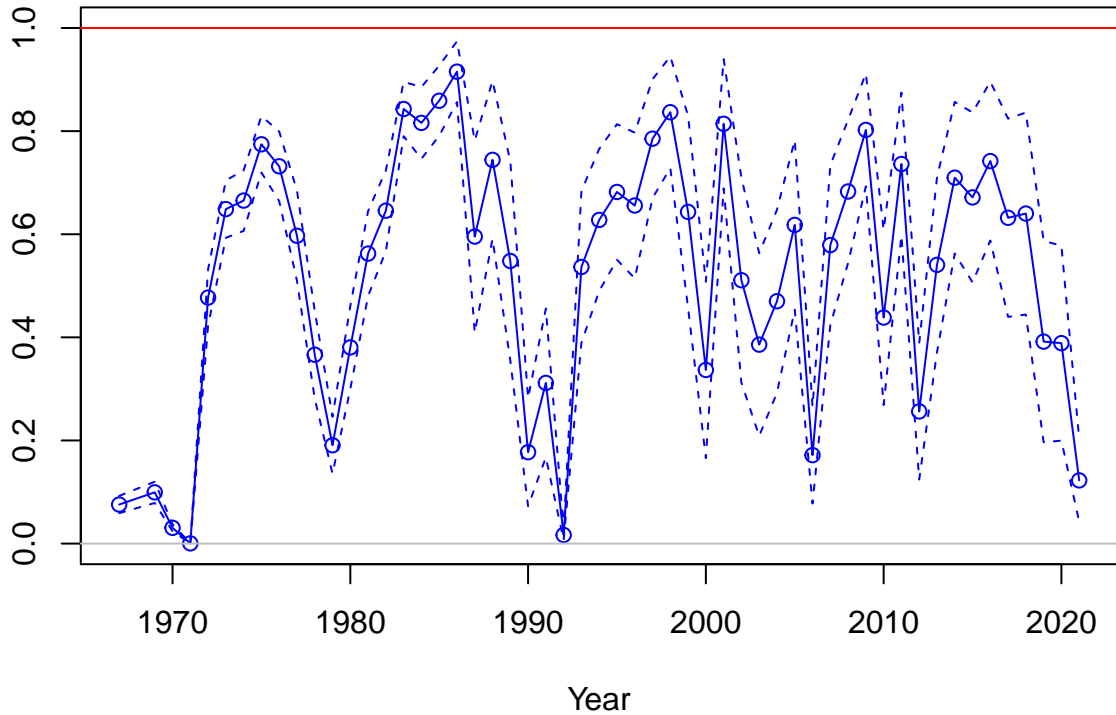


SPR

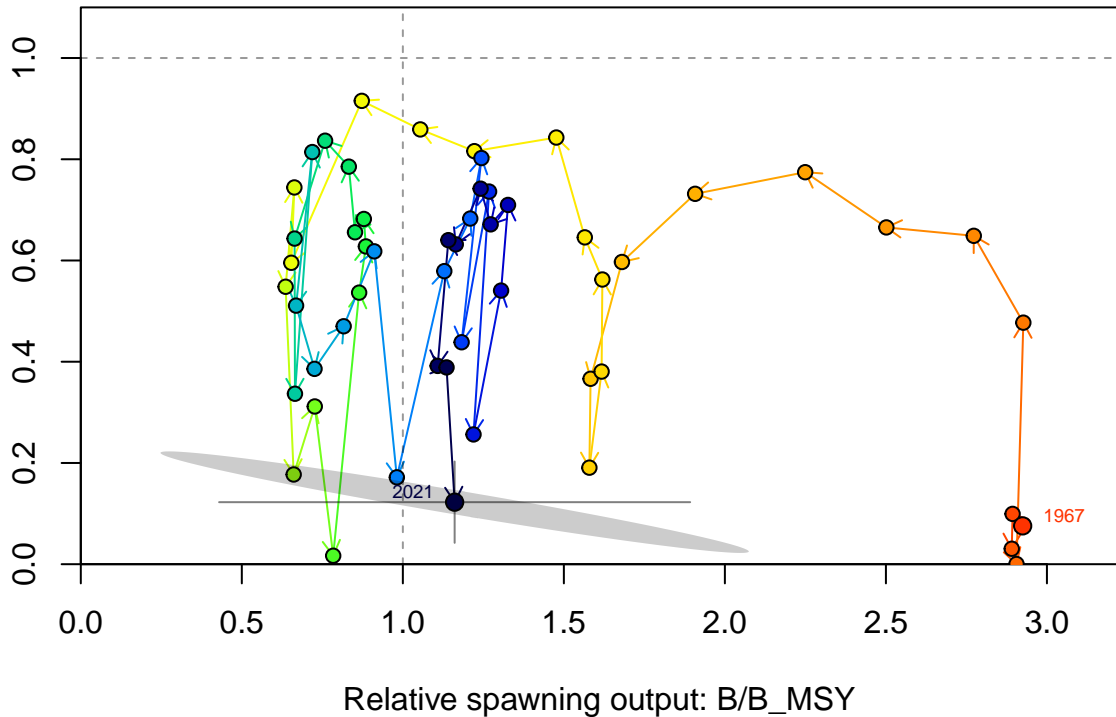




Fishing intensity: 1-SPR



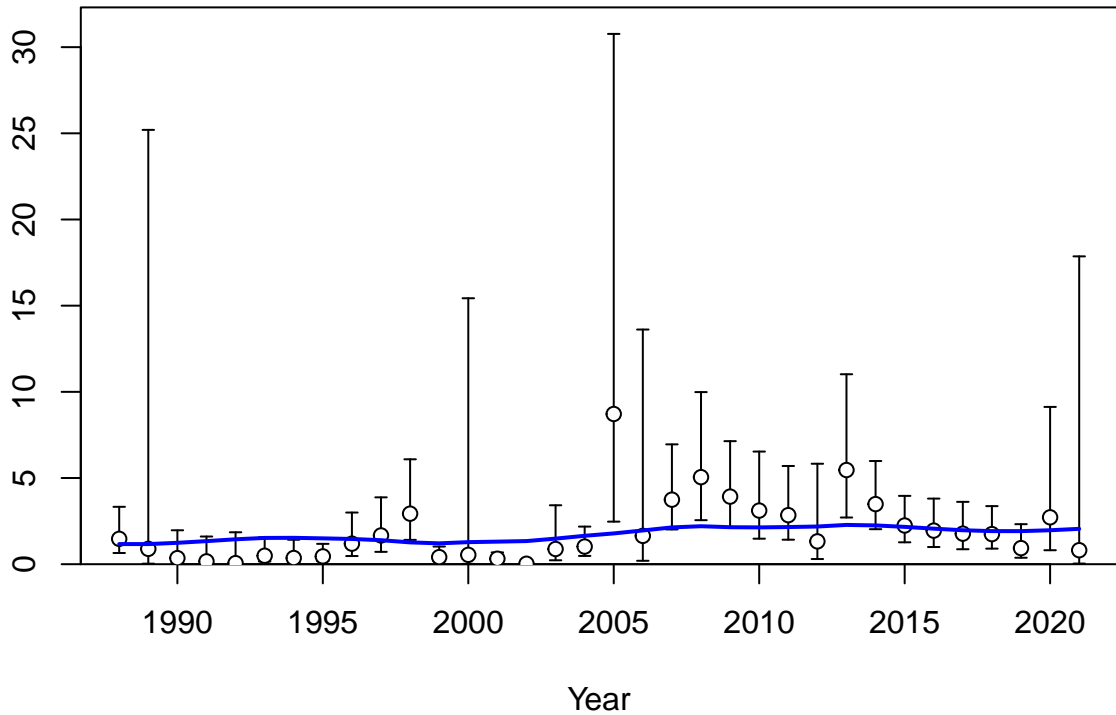
Fishing intensity: 1-SPR

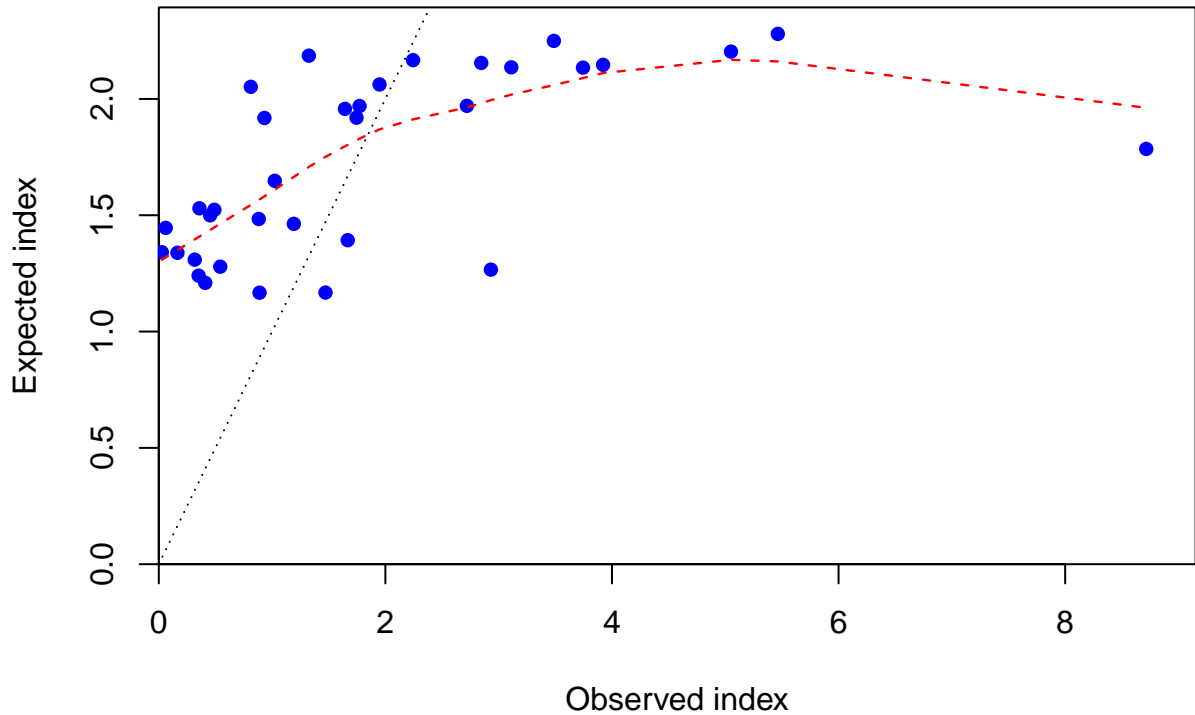


Index

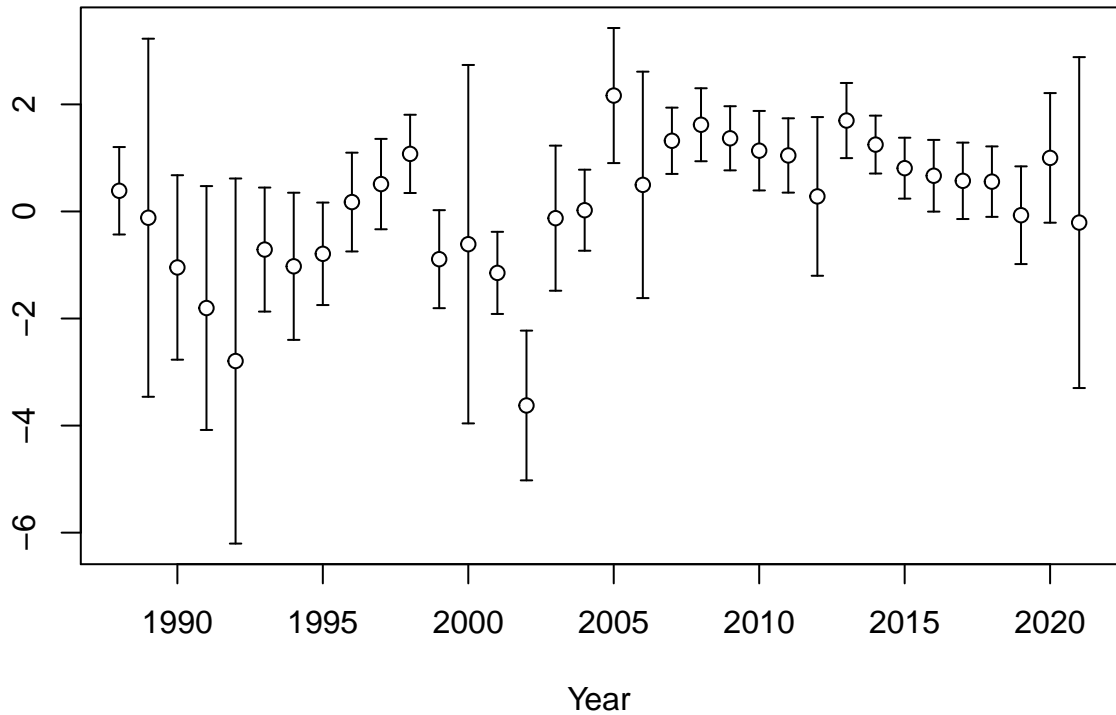


Index

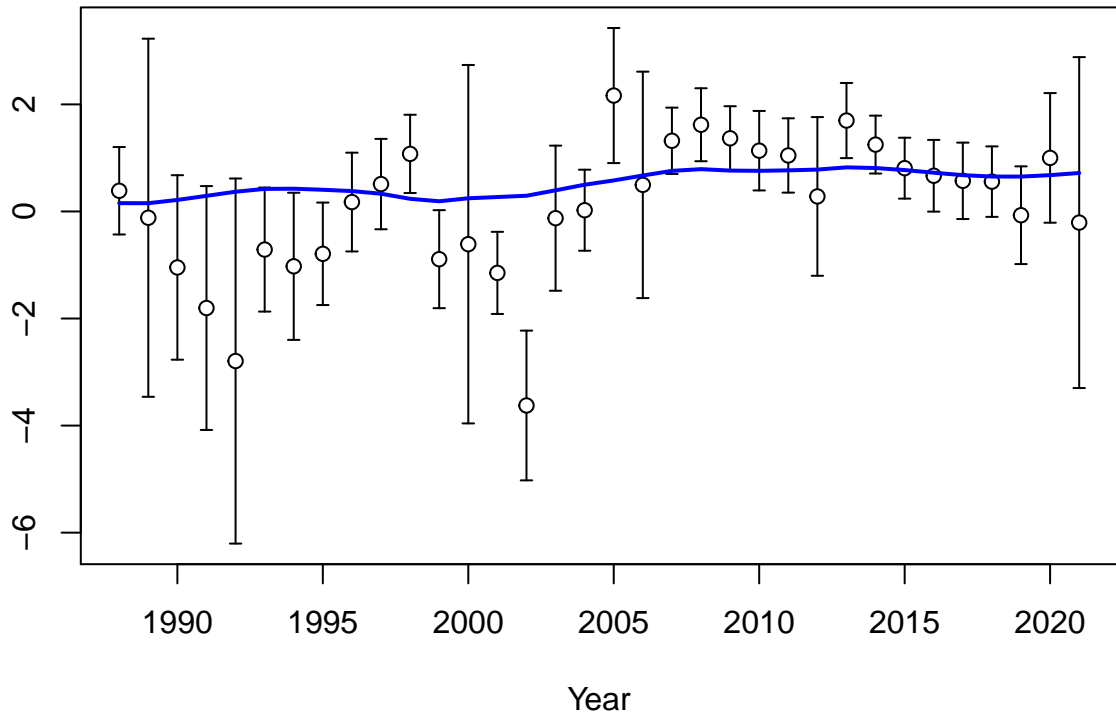


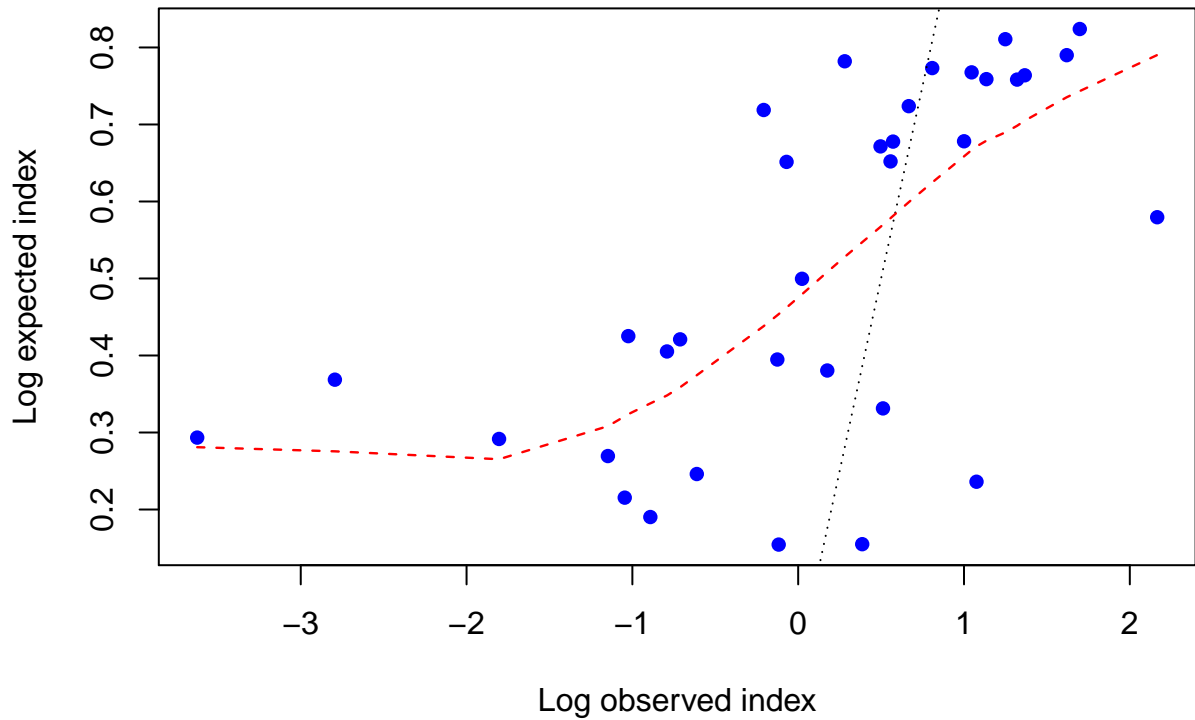


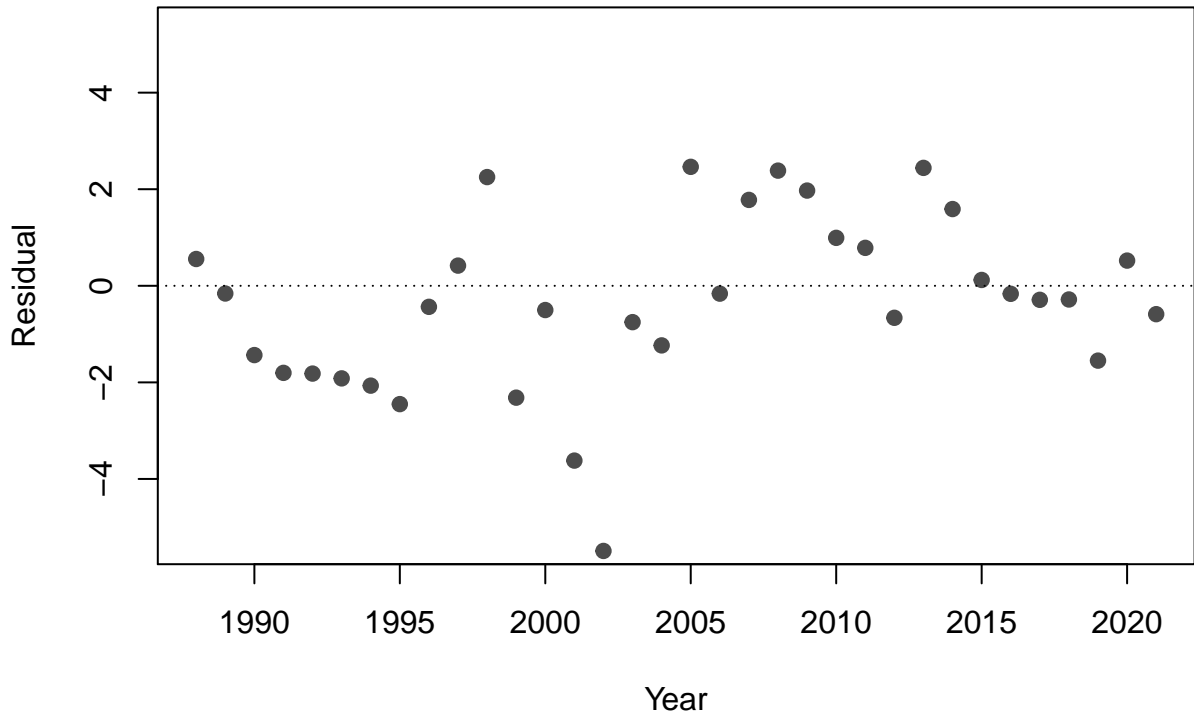
Log index



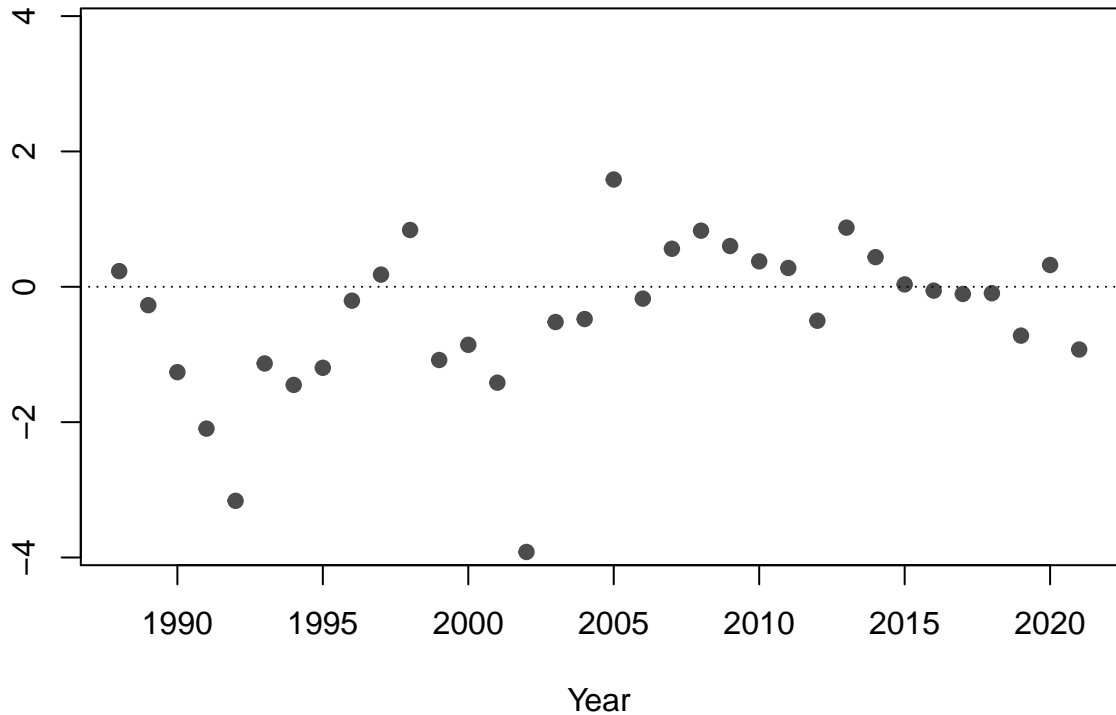
Log index

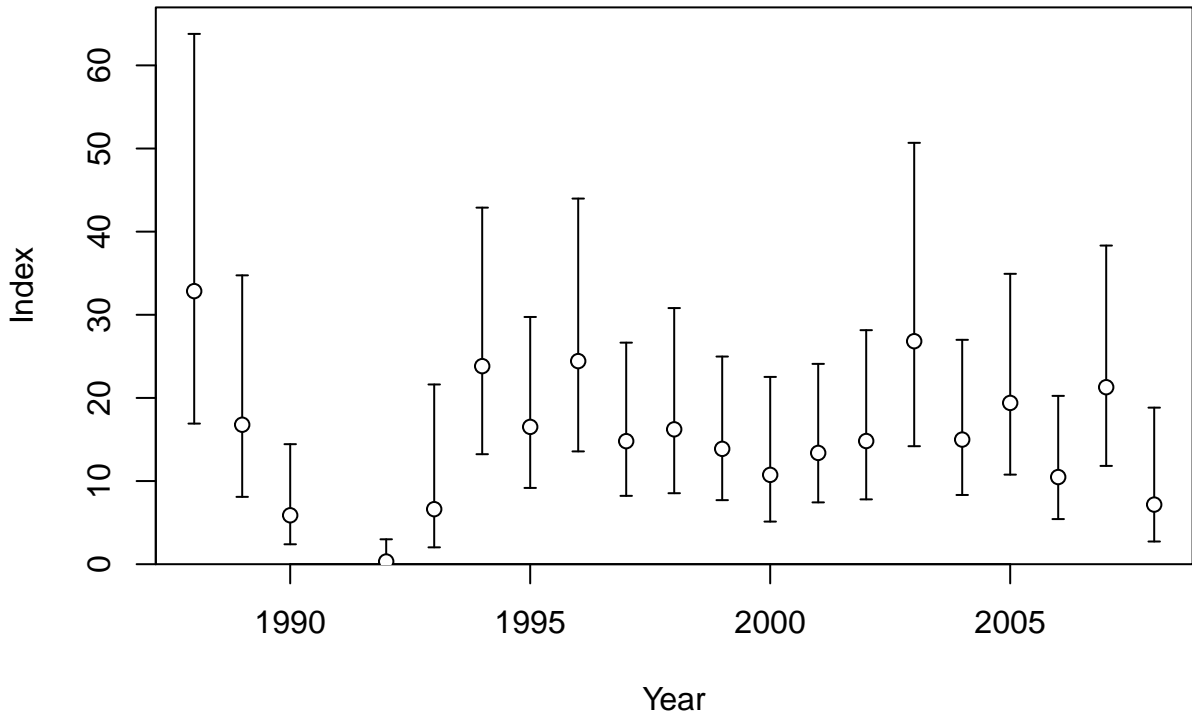


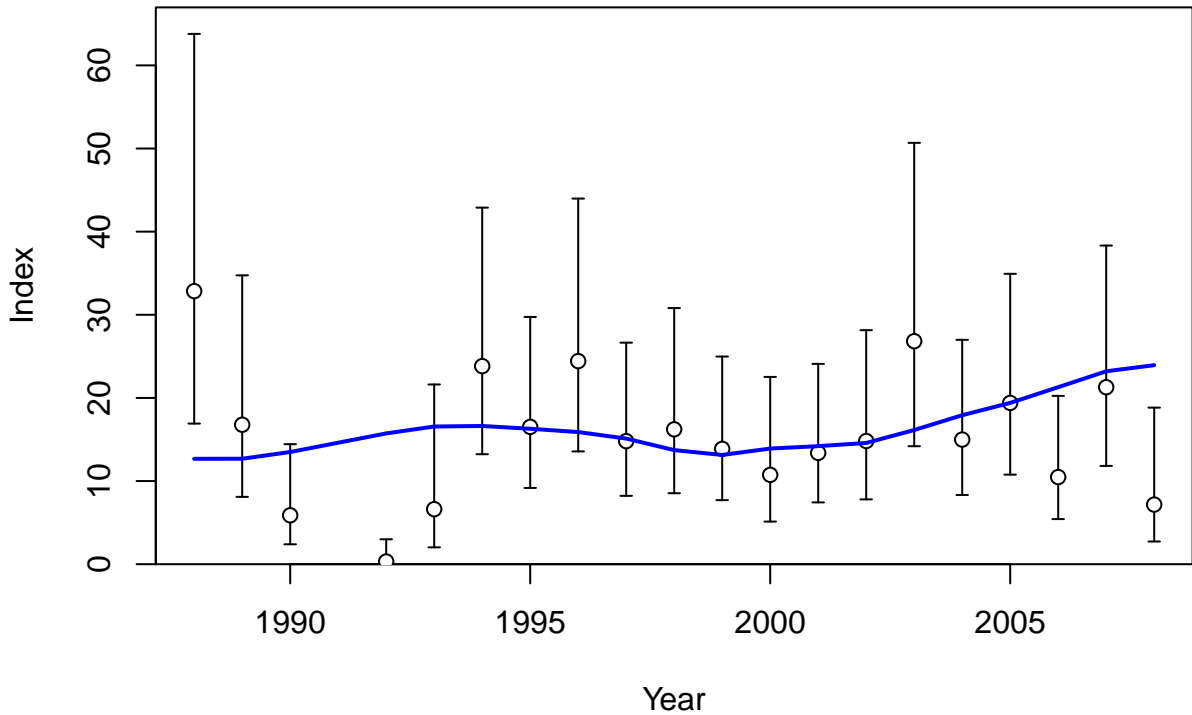


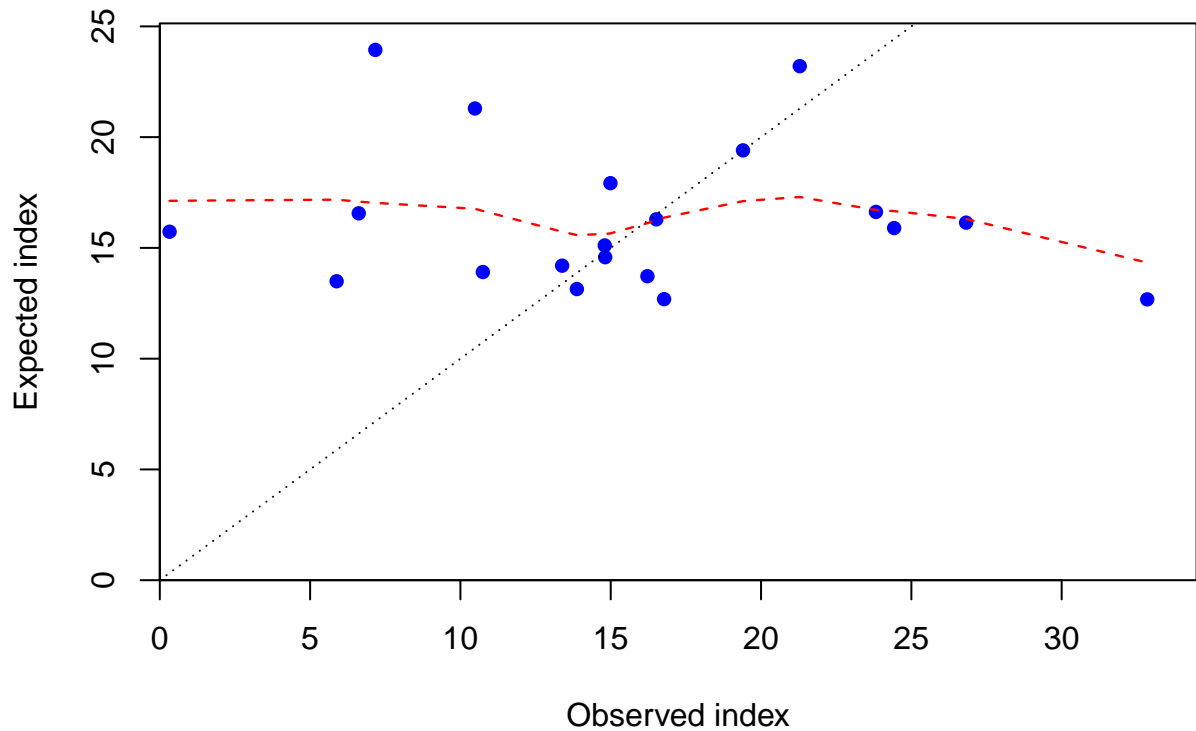


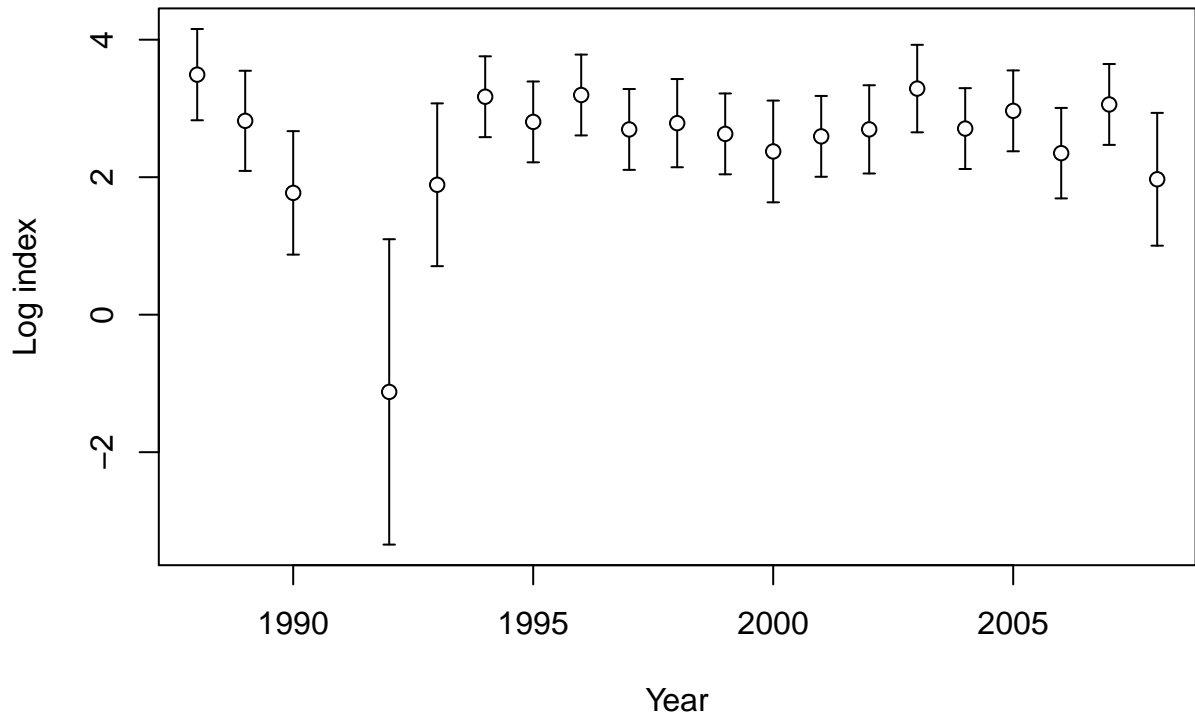
Deviation



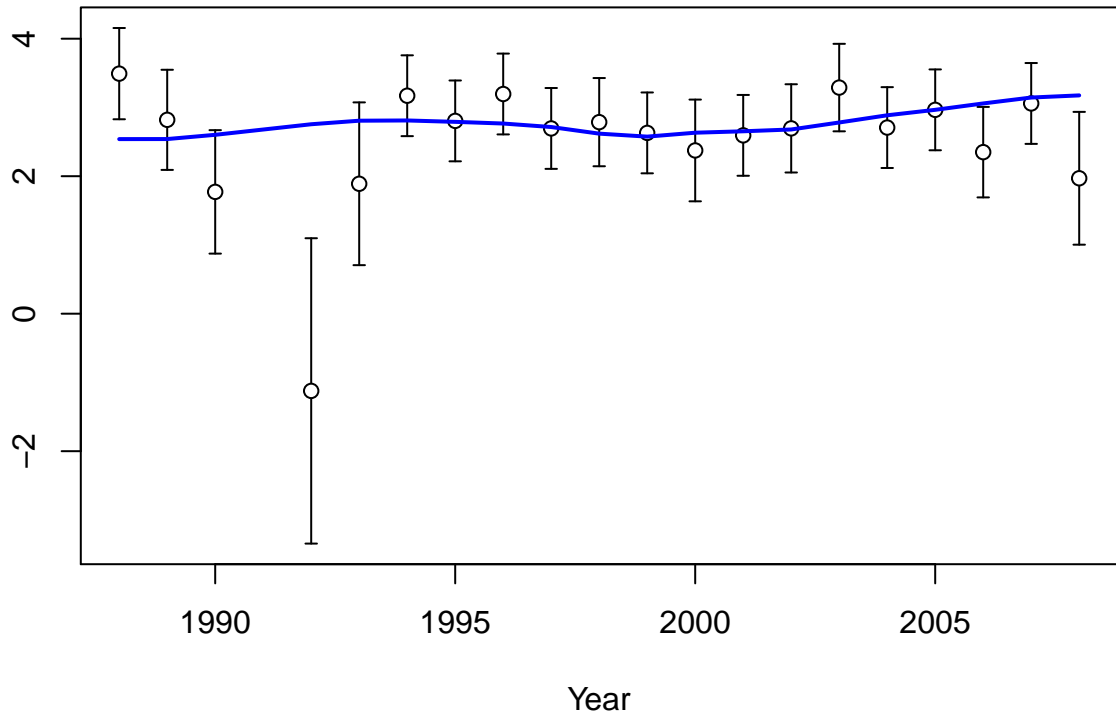


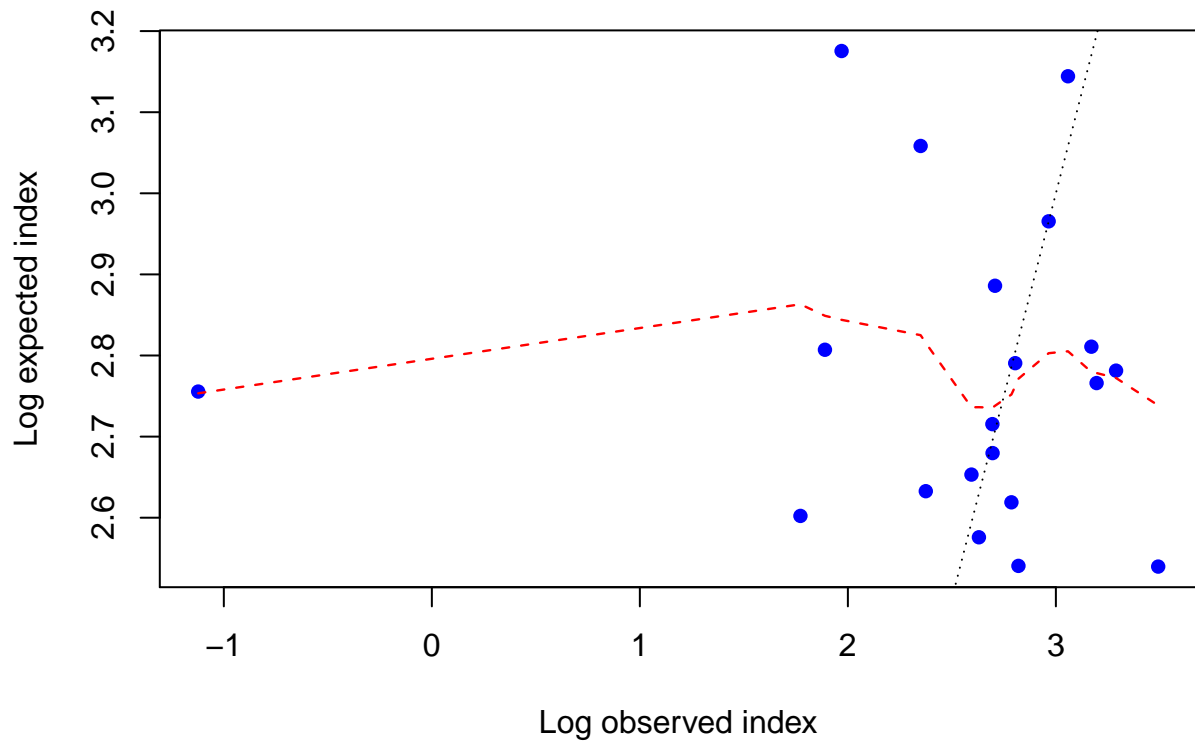


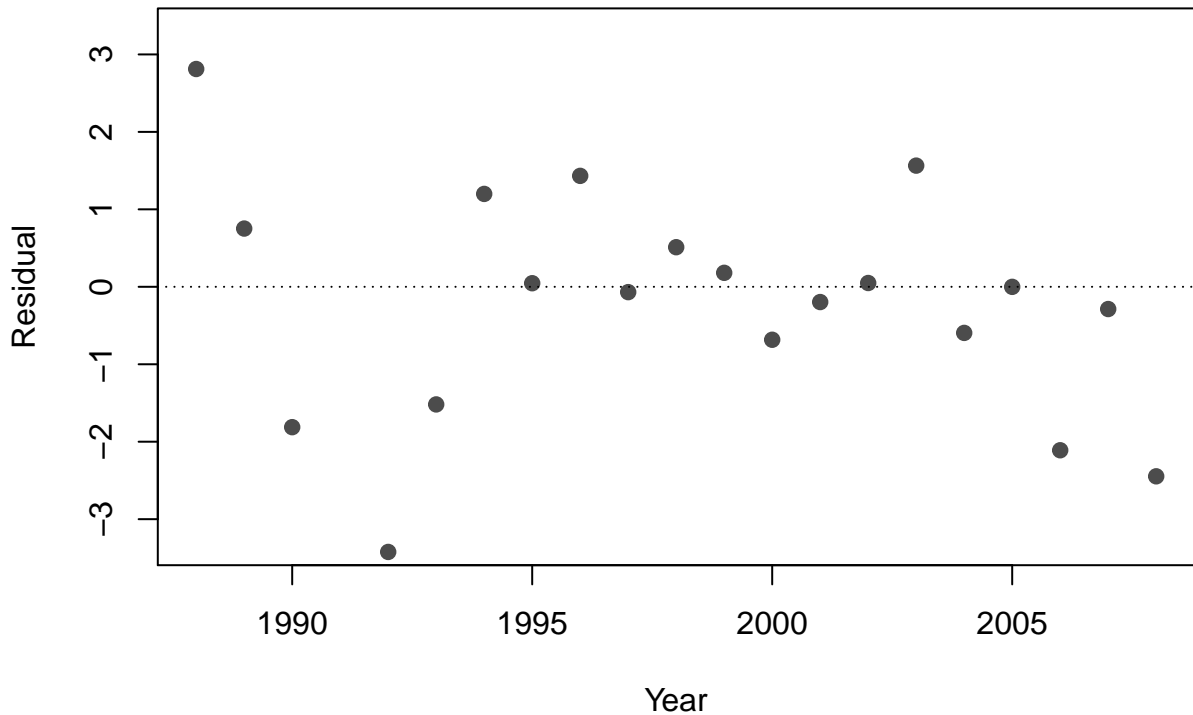




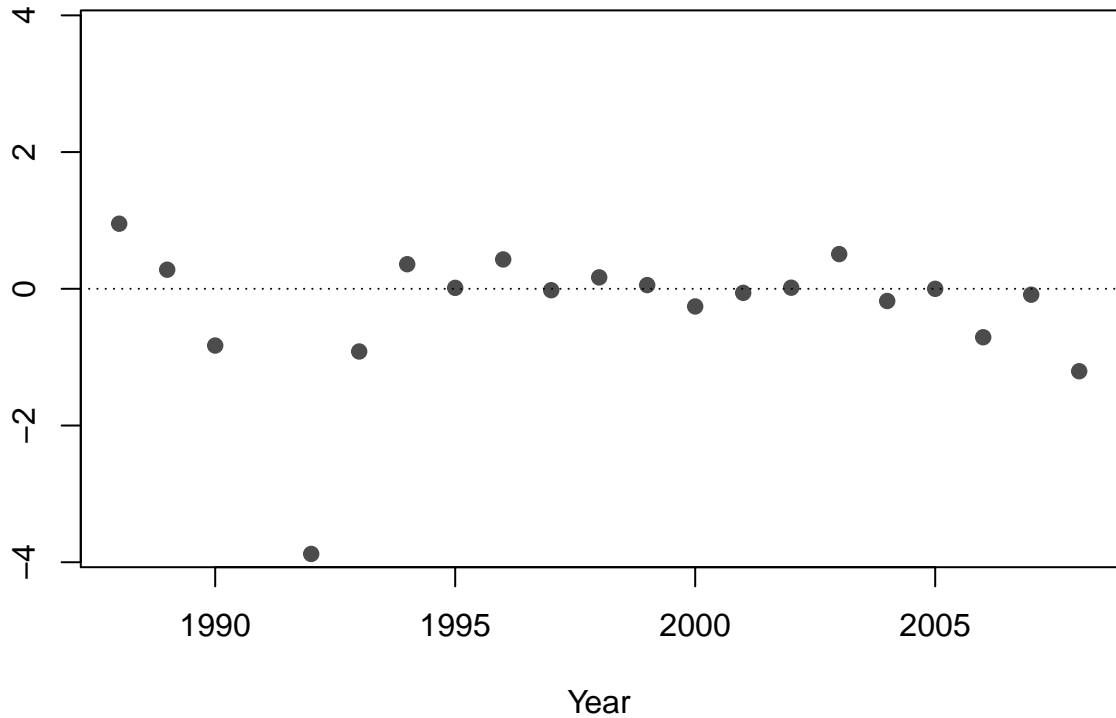
Log index

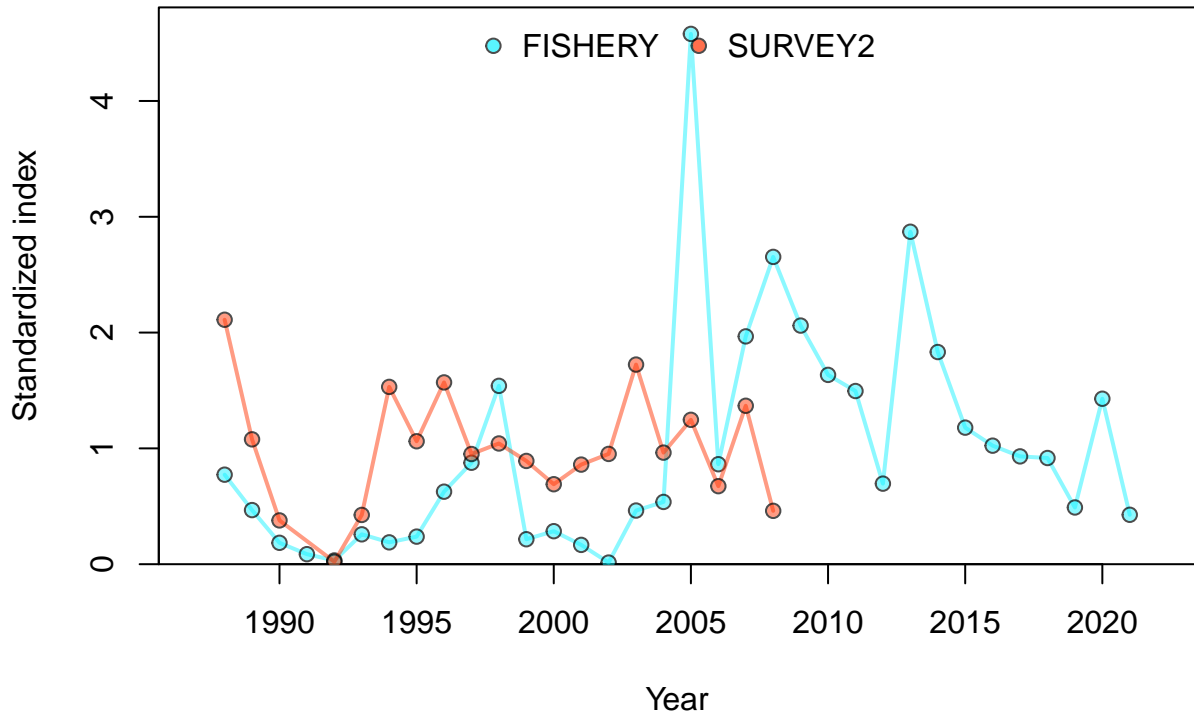


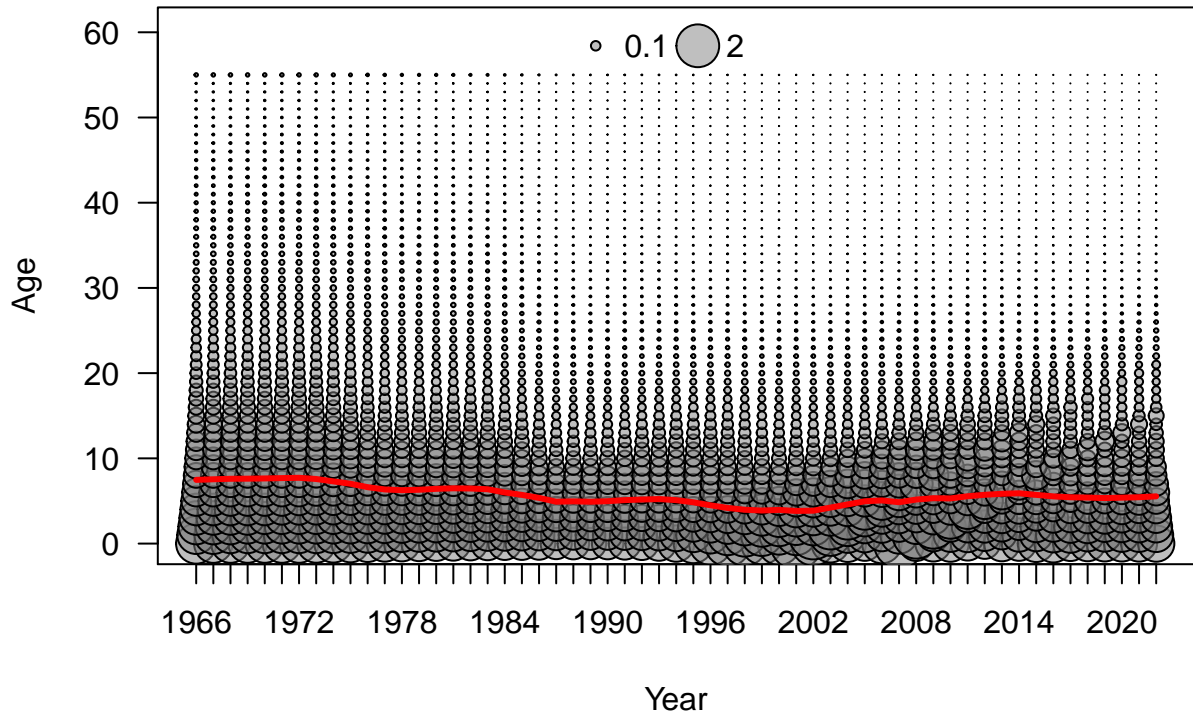


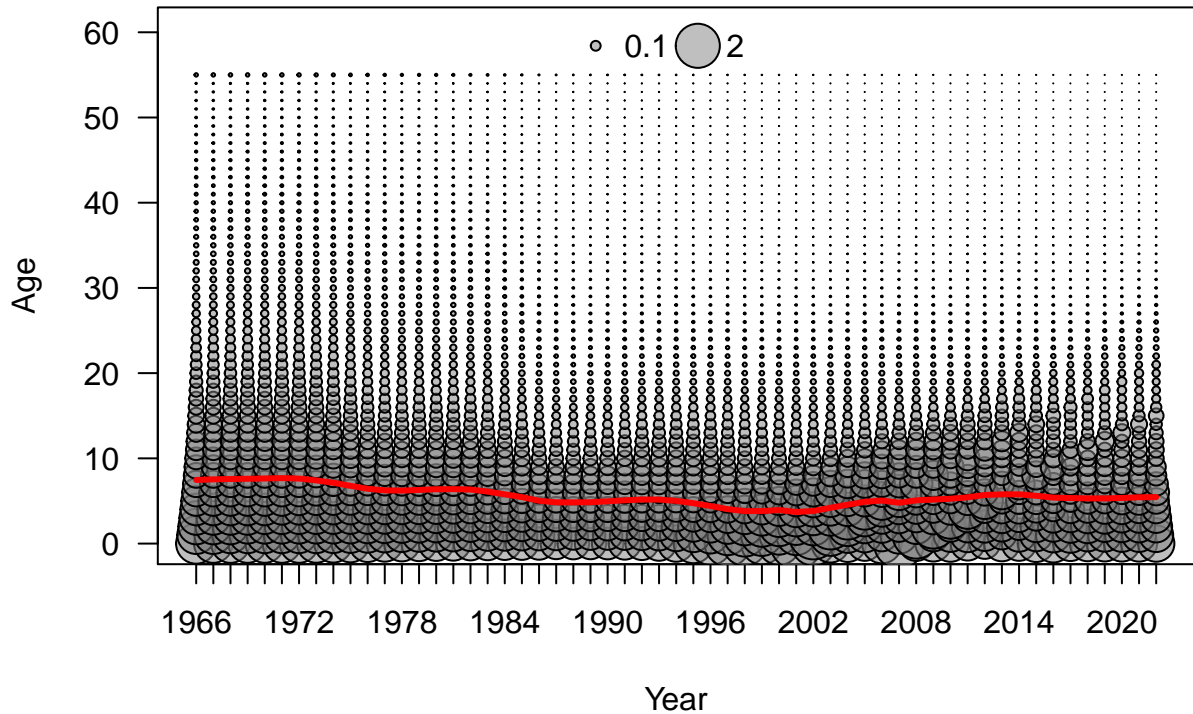


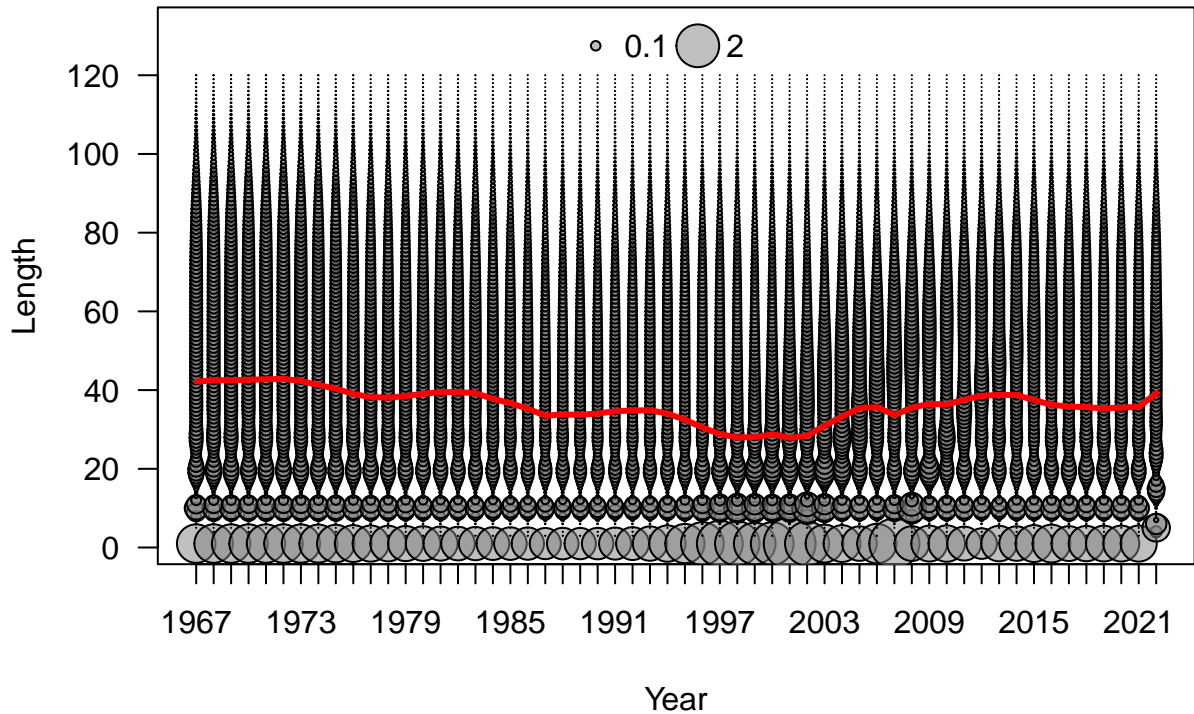
Deviation

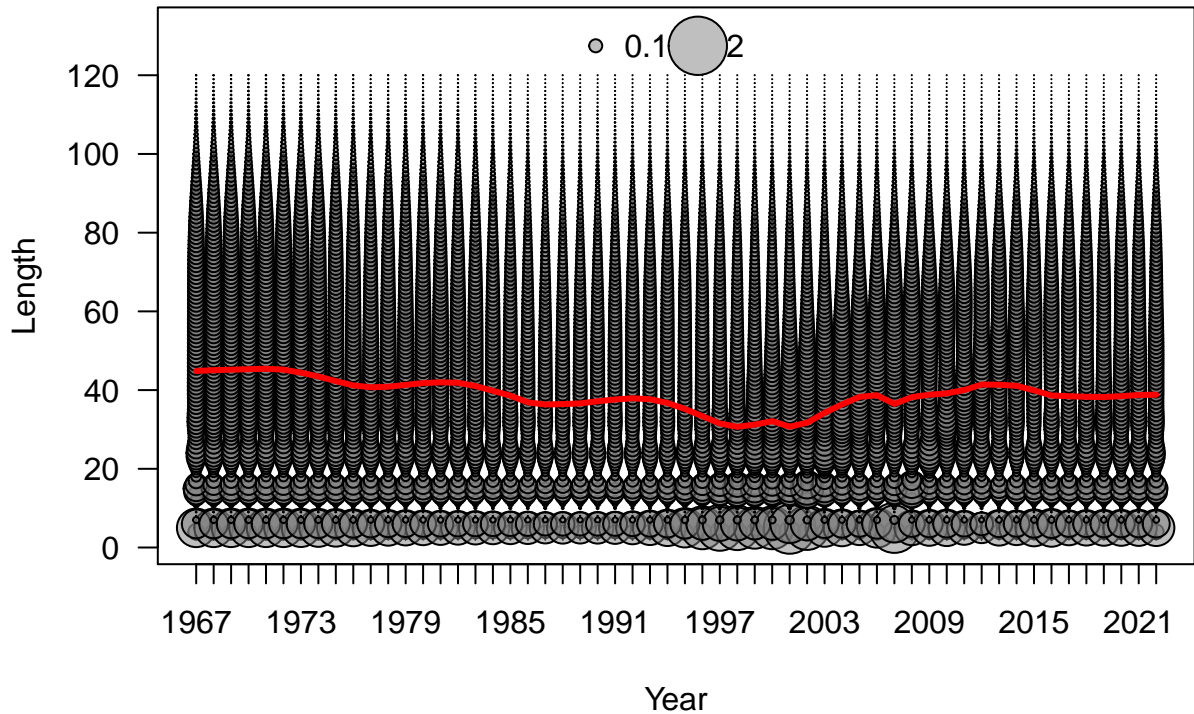


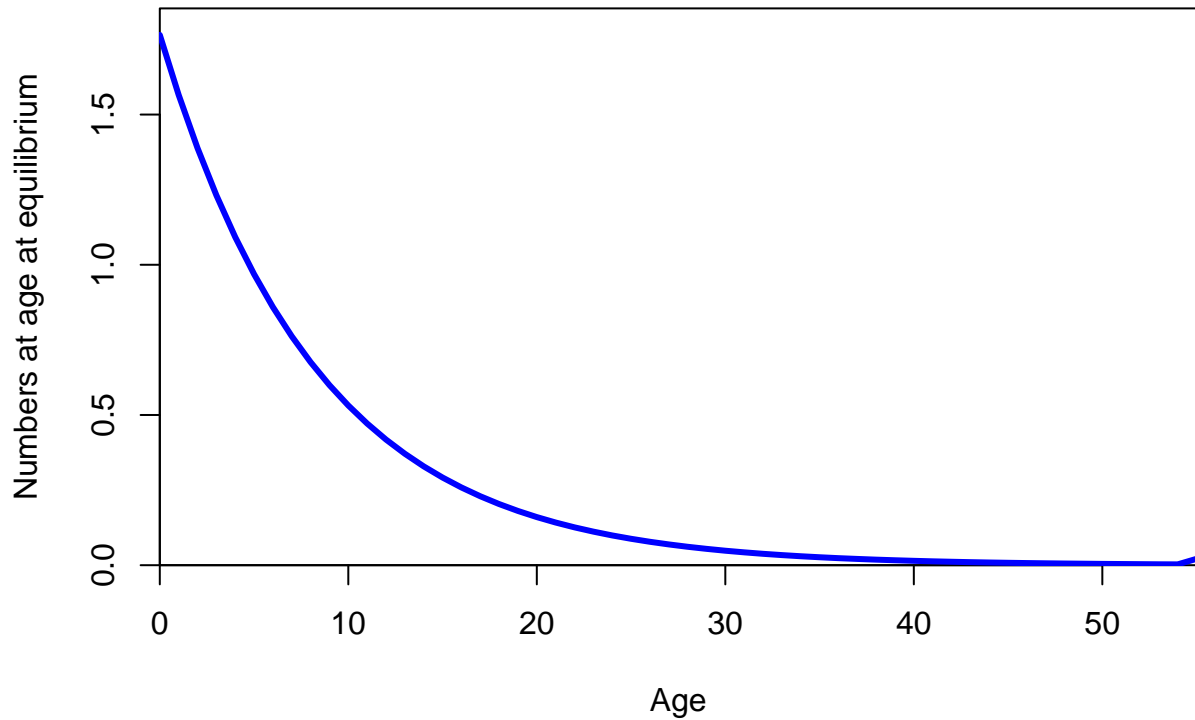






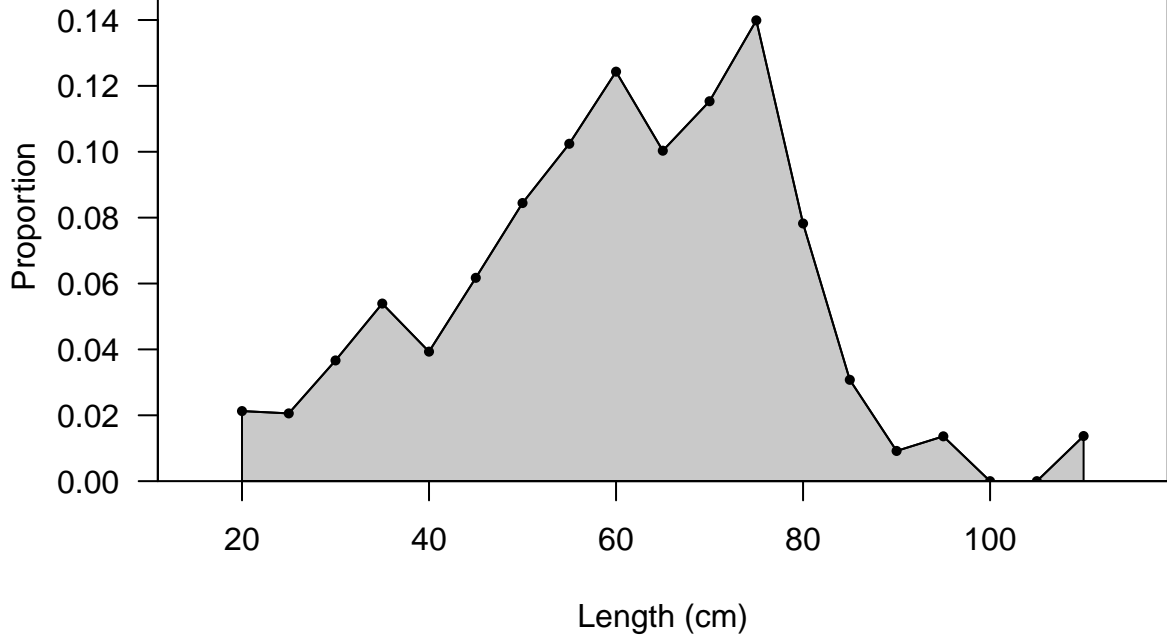






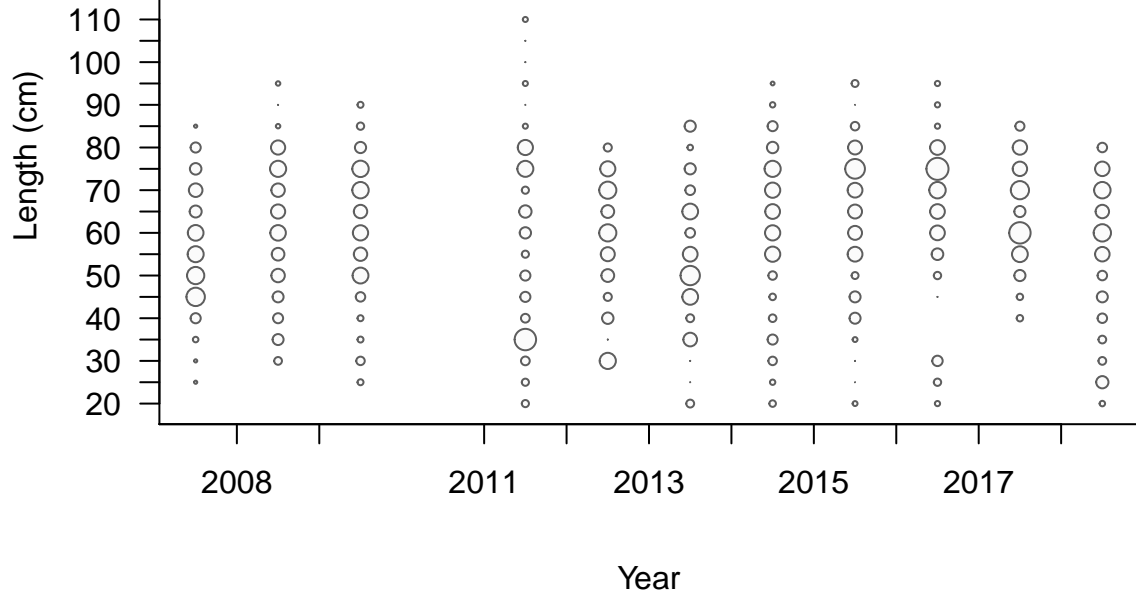
FISHERY

Sum of N adj.=285

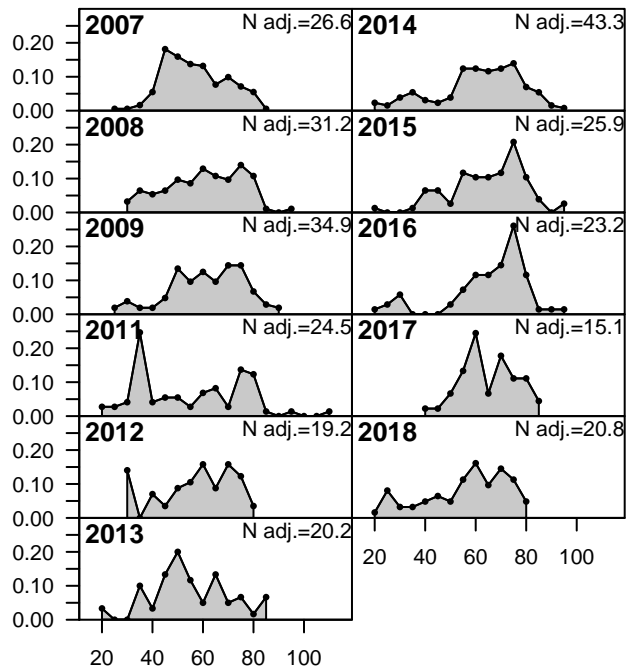


FISHERY

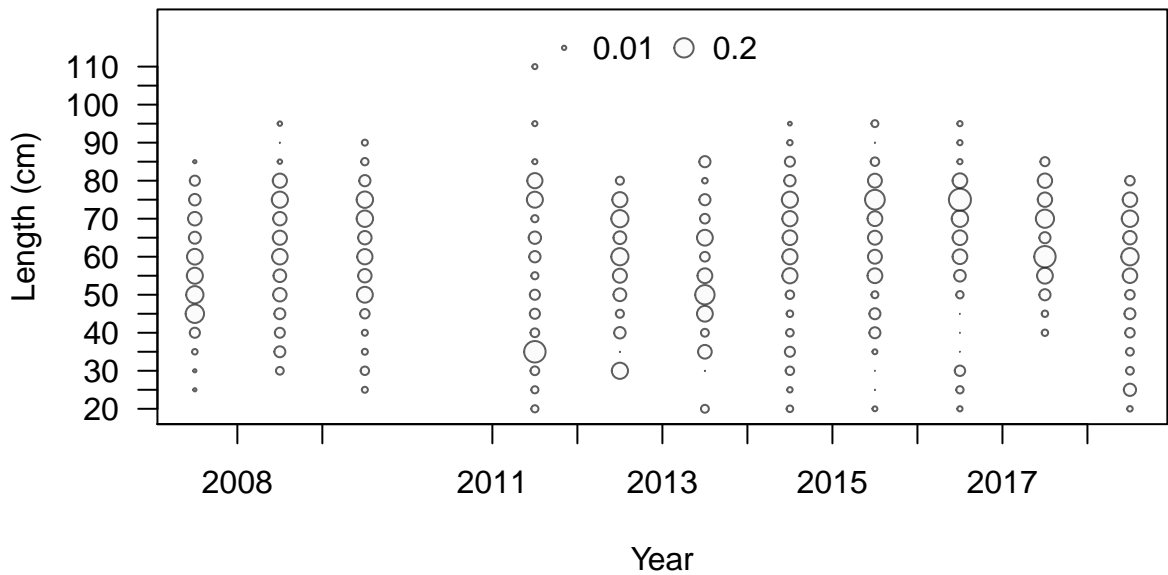
◦ 0.01 ○ 0.2



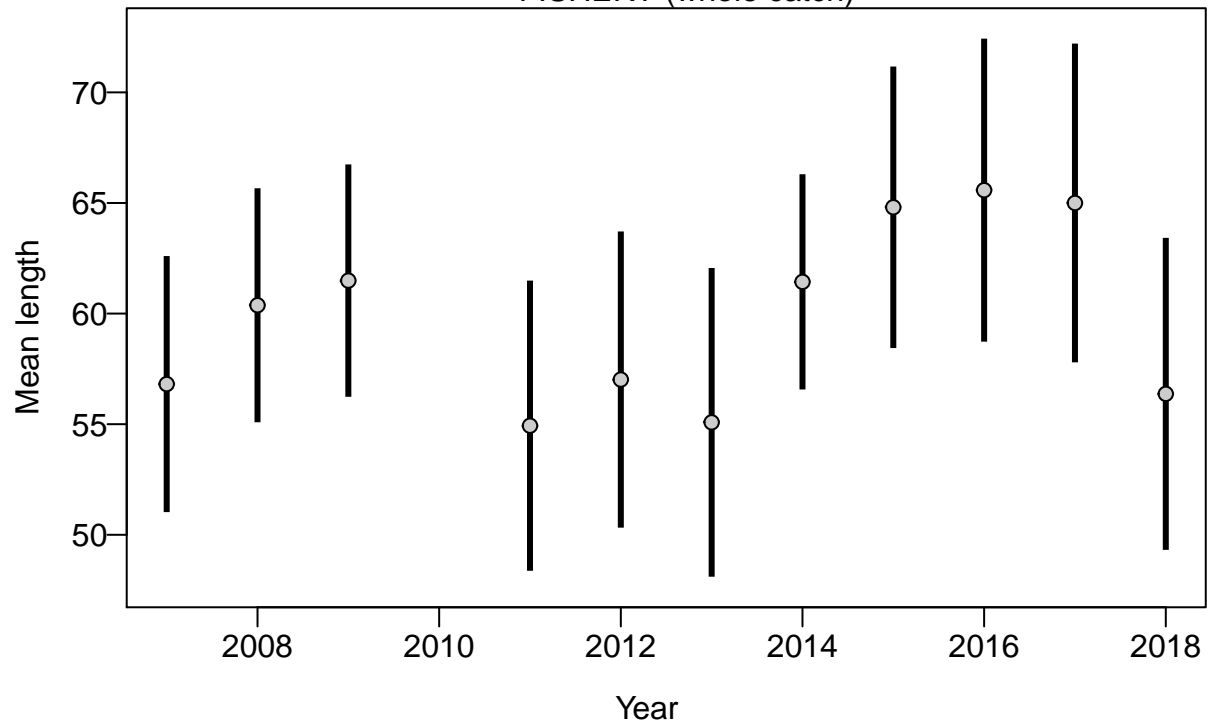
Proportion



Length (cm)

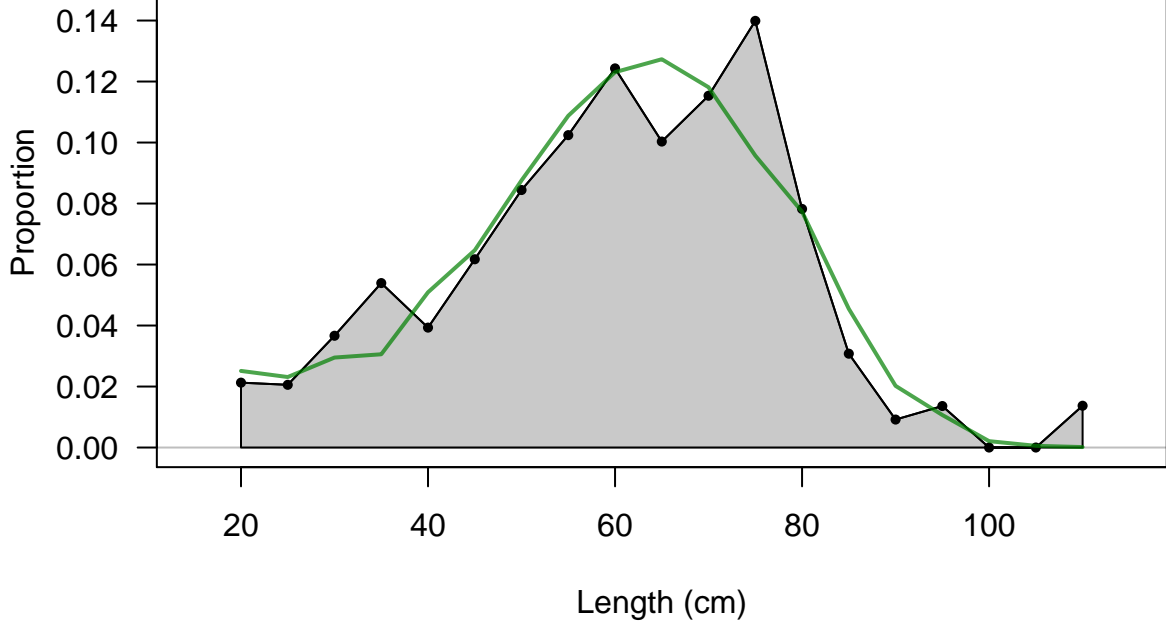


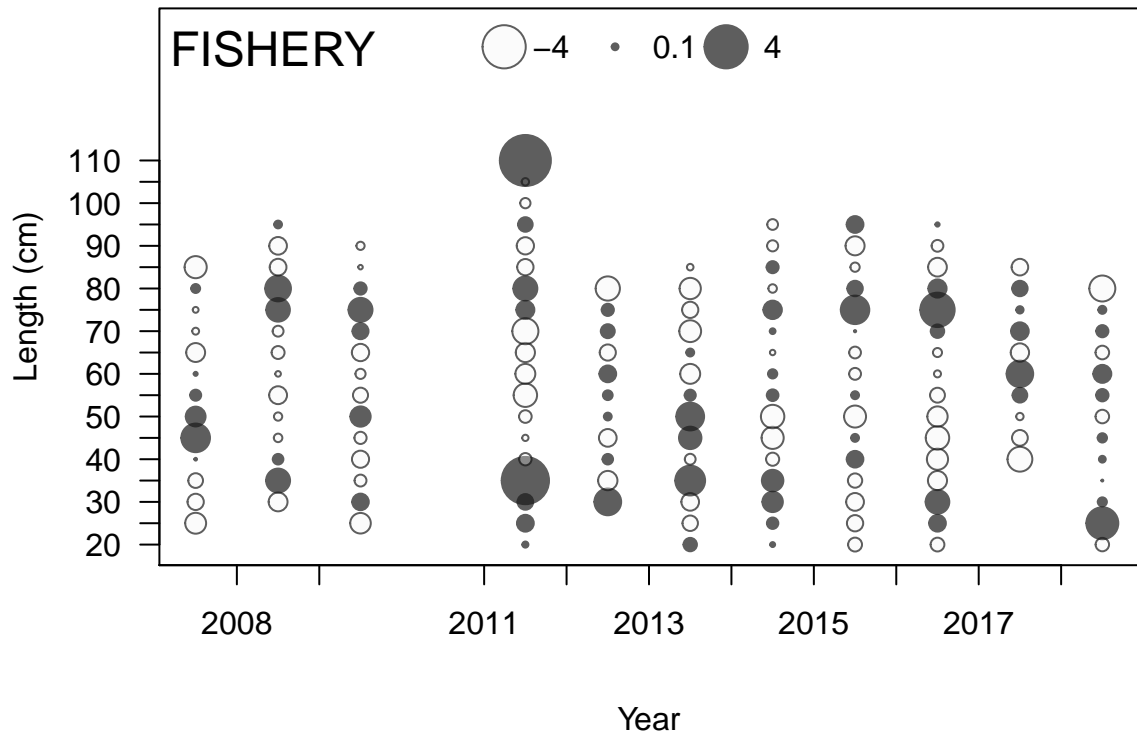
FISHERY (whole catch)



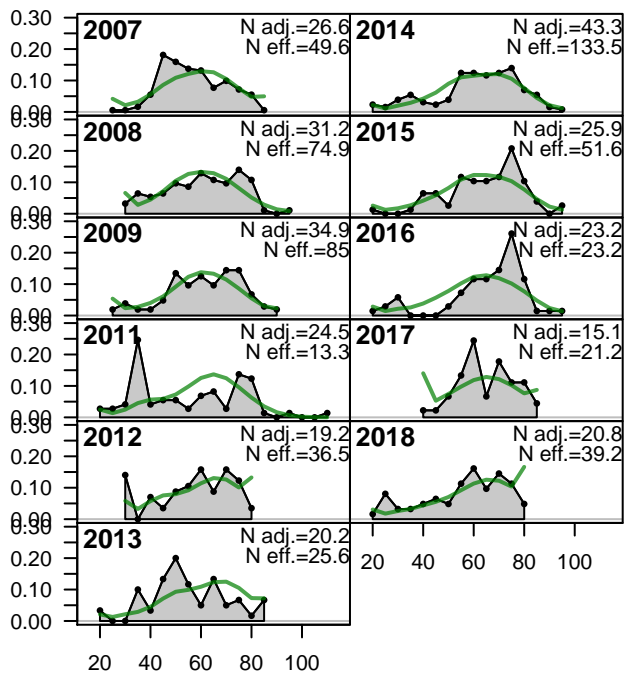
FISHERY

Sum of N adj.=285
Sum of N eff.=553.5

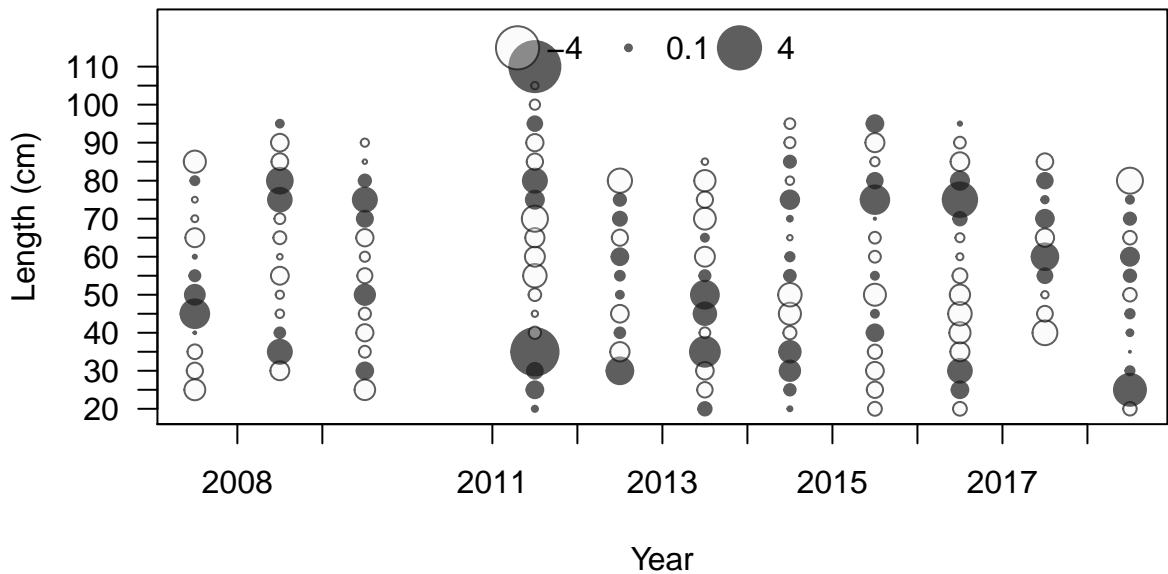




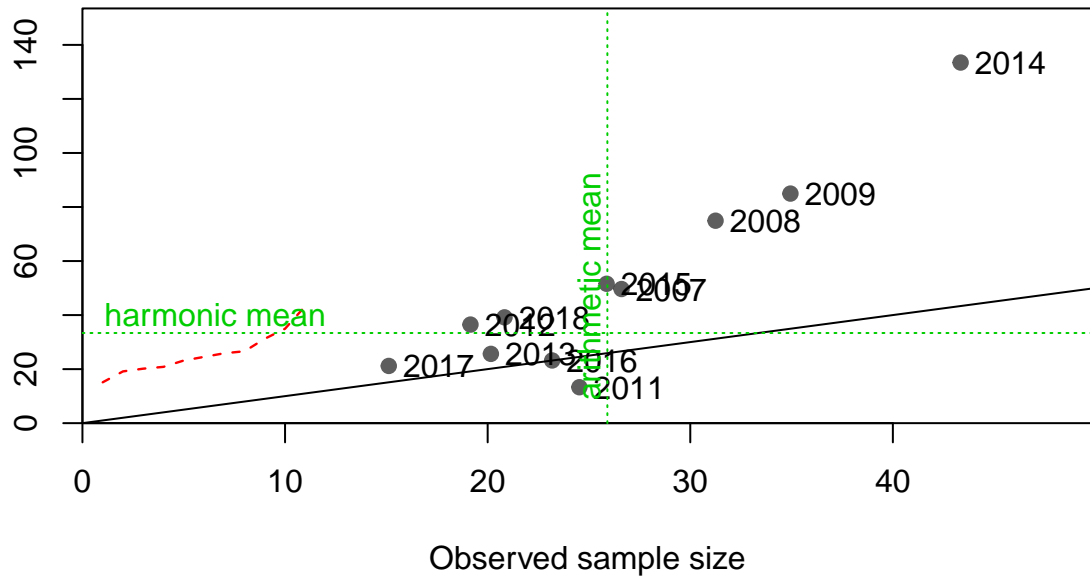
Proportion



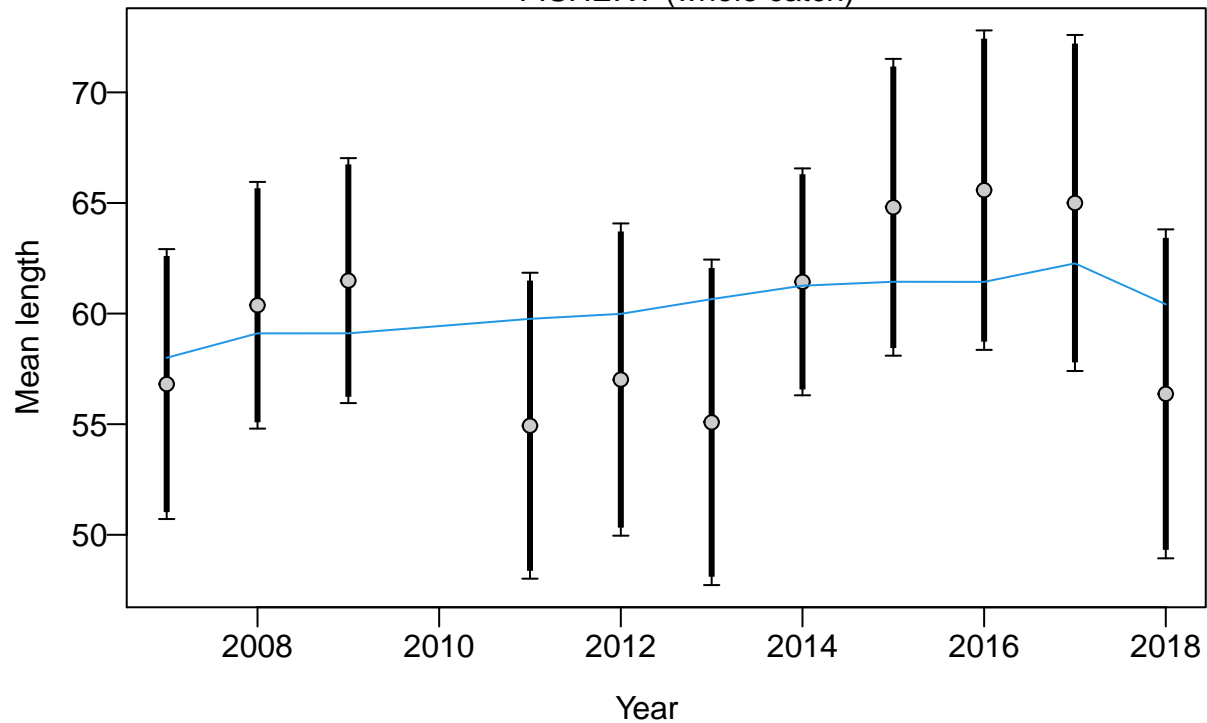
Length (cm)

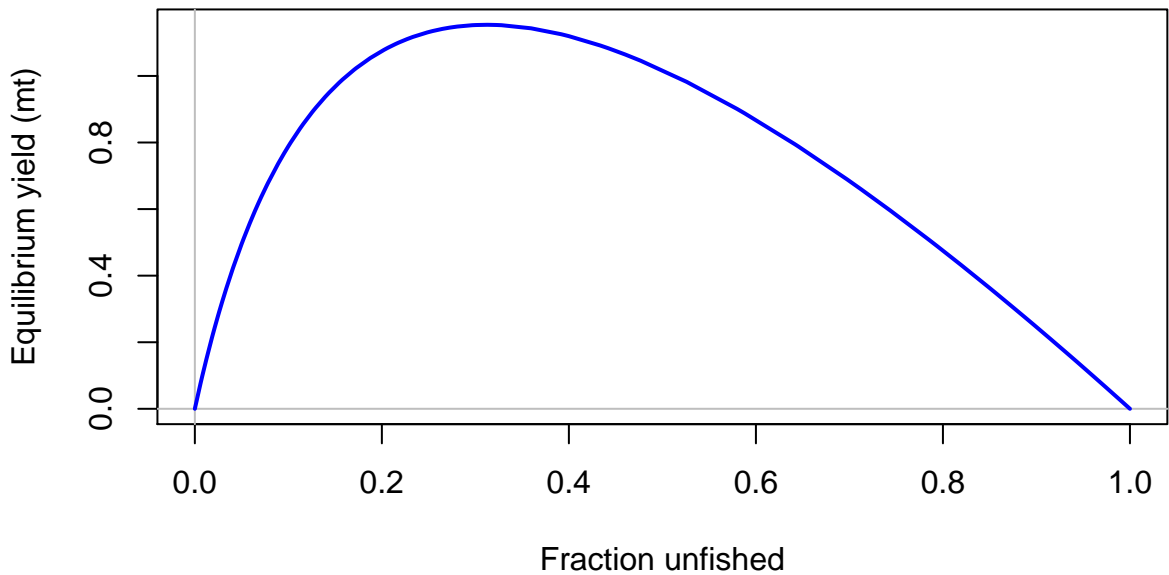


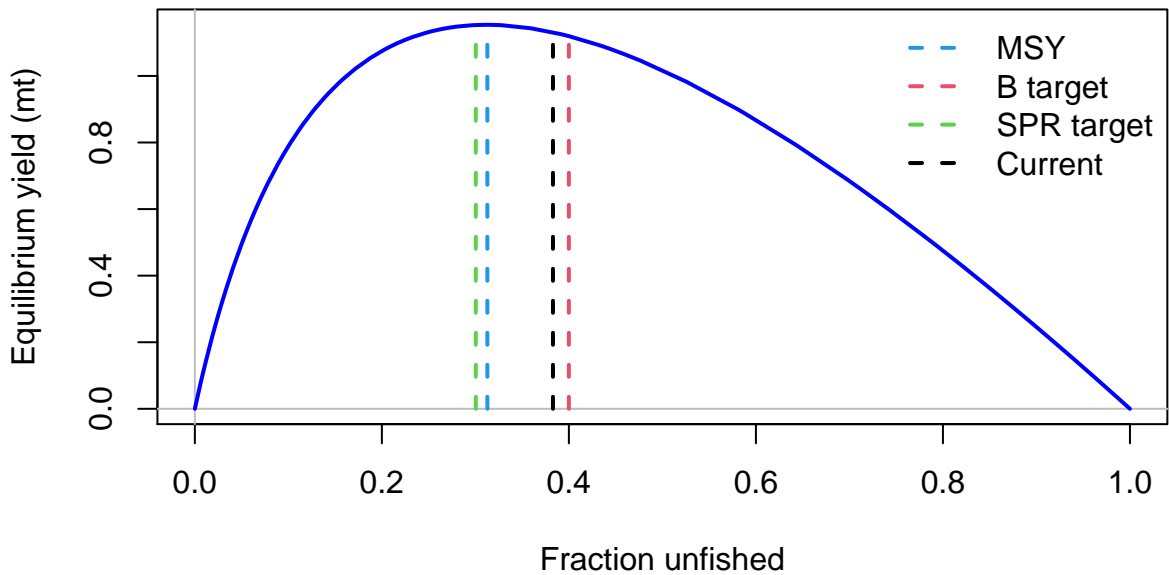
Effective sample size

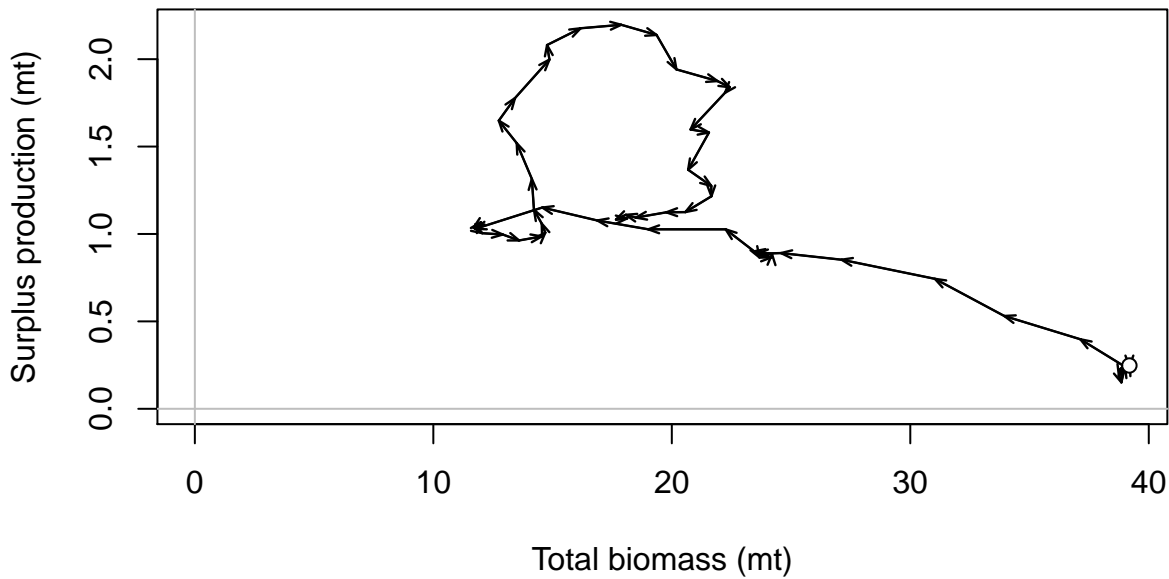


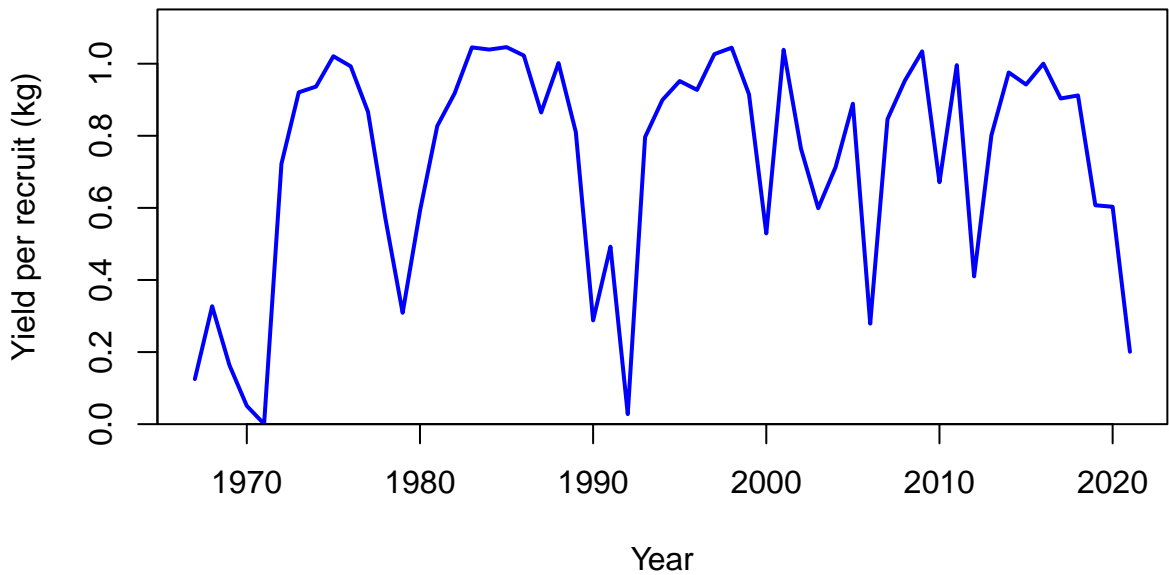
FISHERY (whole catch)

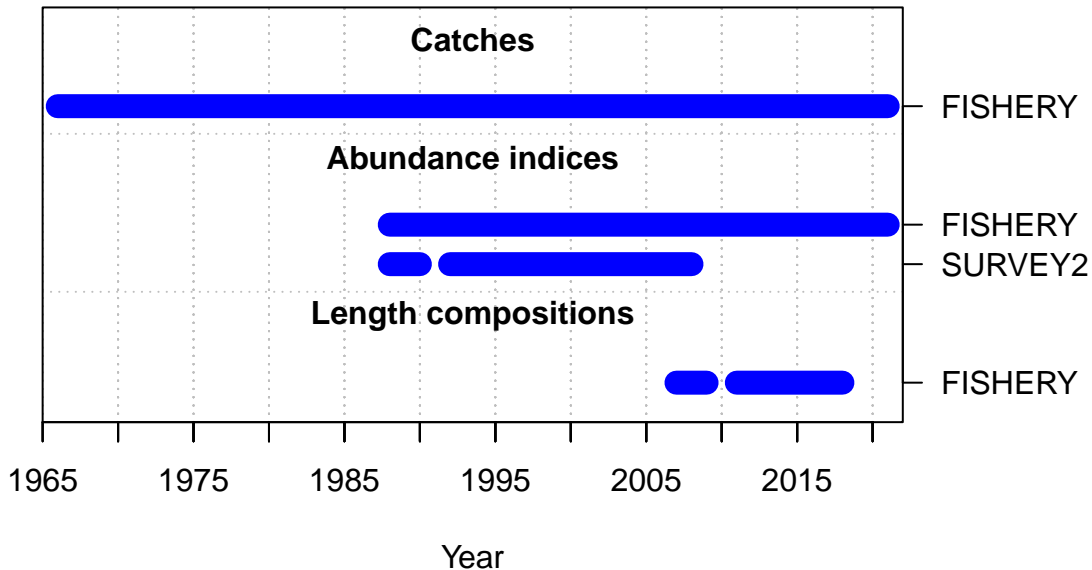


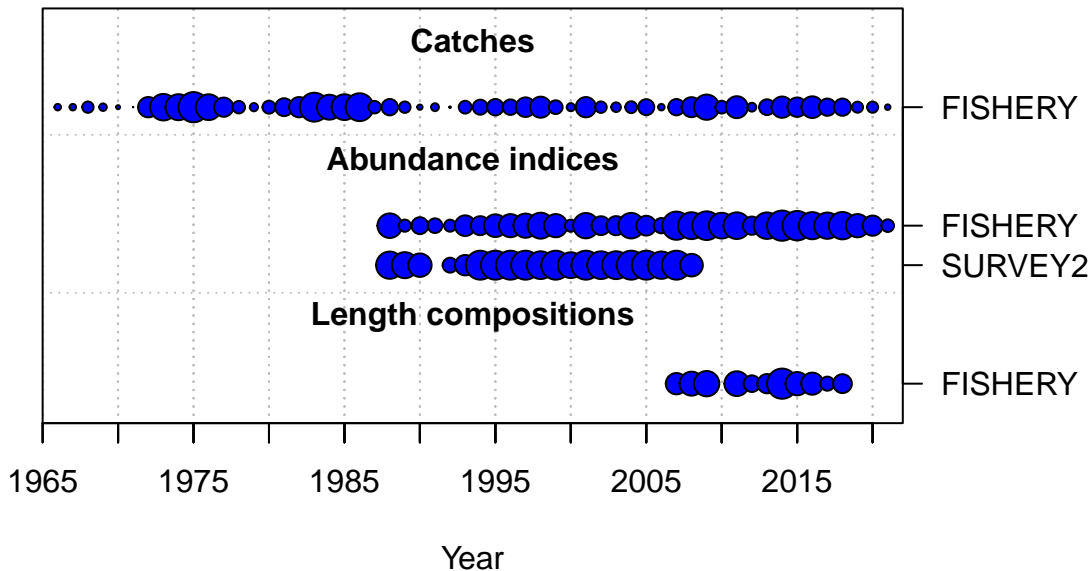




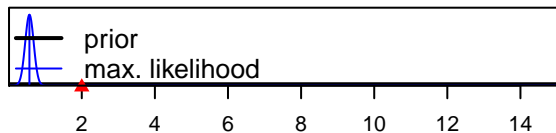




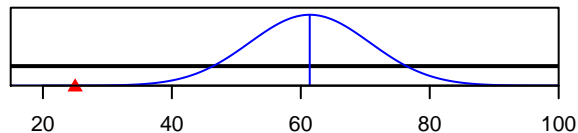




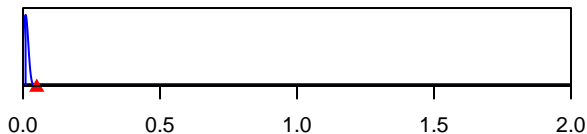
SR_LN(R0)



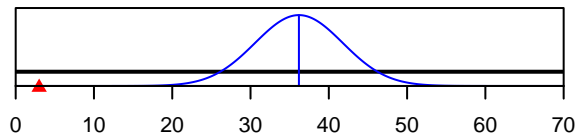
Size_inflection_FISHERY(1)



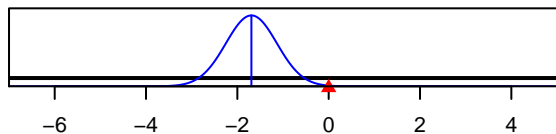
InitF_seas_1_flt_1FISHERY



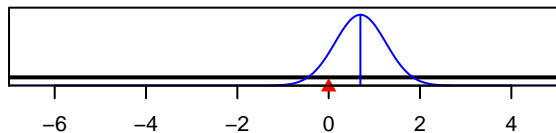
Size_95%width_FISHERY(1)



LnQ_base_FISHERY(1)



LnQ_base_SURVEY2(2)



Parameter value