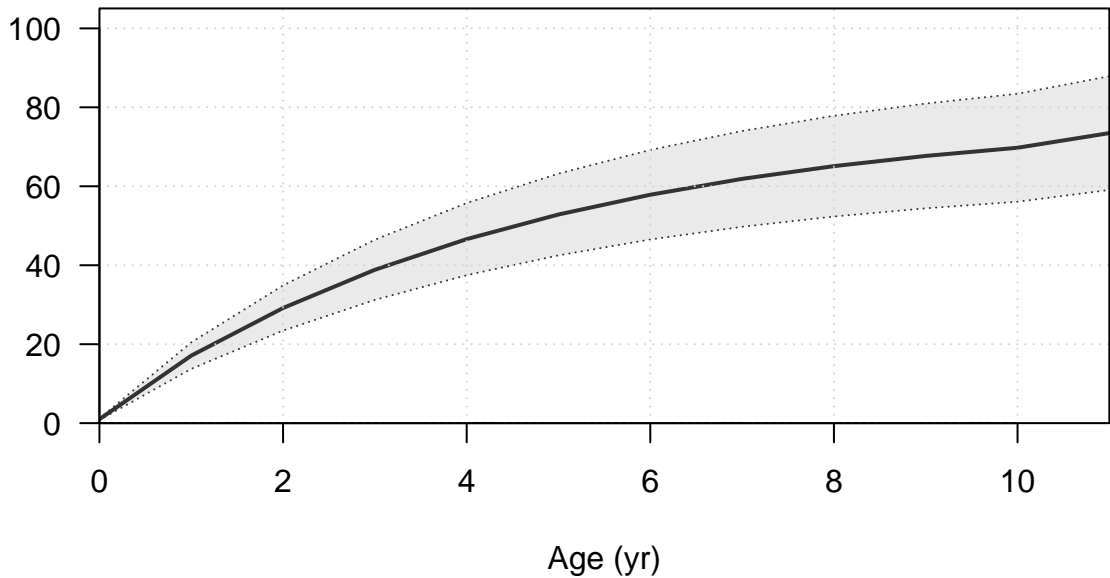
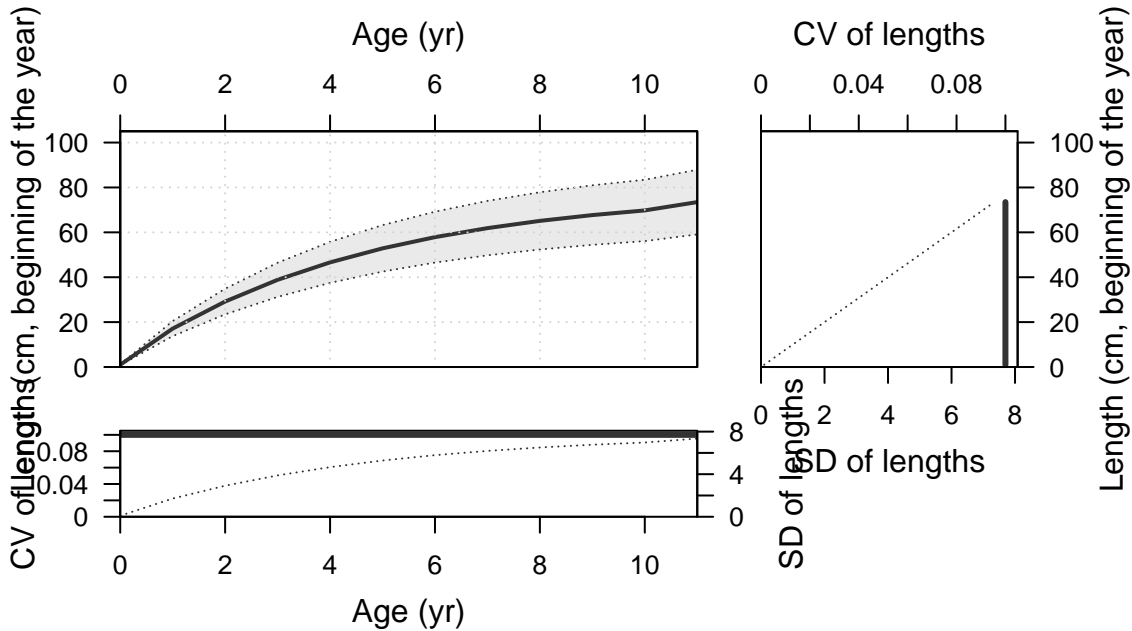
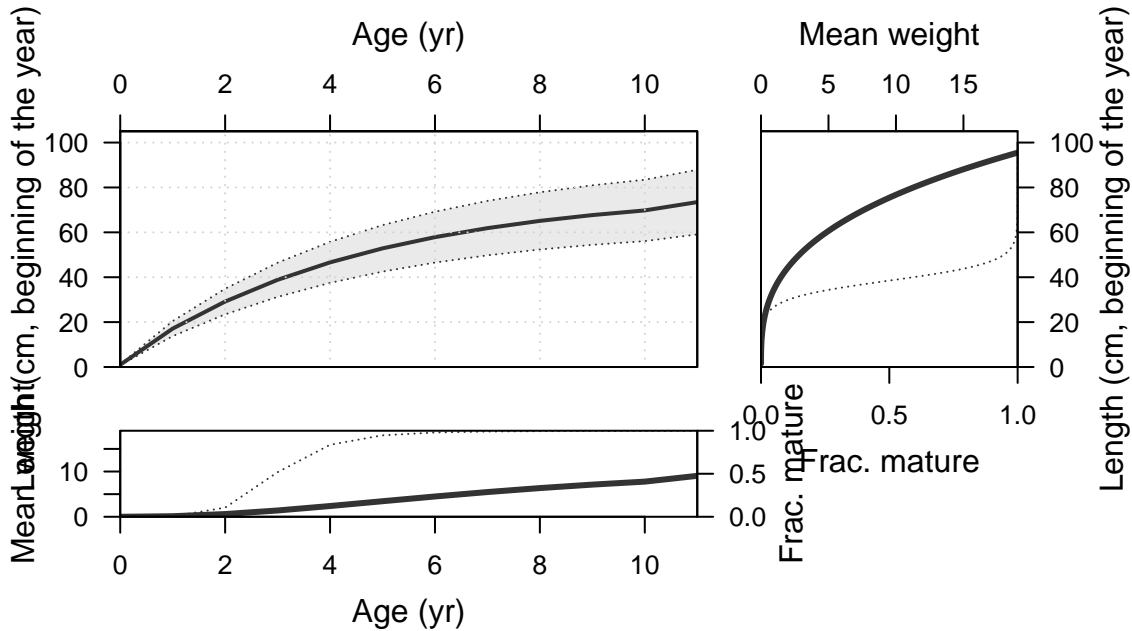


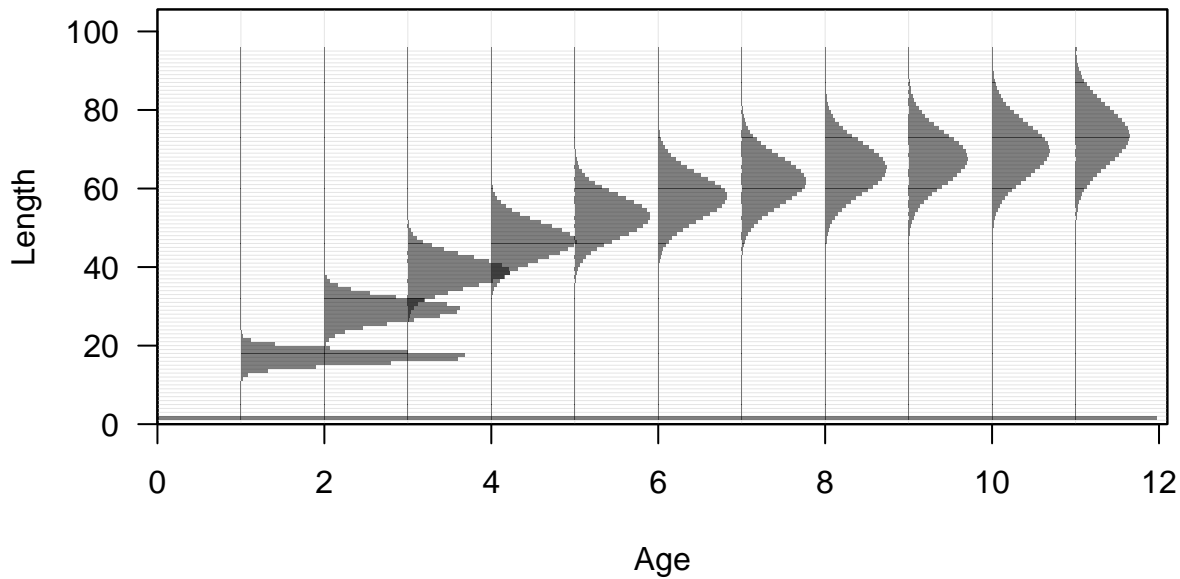
Plots created using the 'r4ss' package in R
Stock Synthesis version: 3.30.19.0
StartTime: Mon Jul 11 15:57:20 2022
Data_File: data.ss
Control_File: control.ss

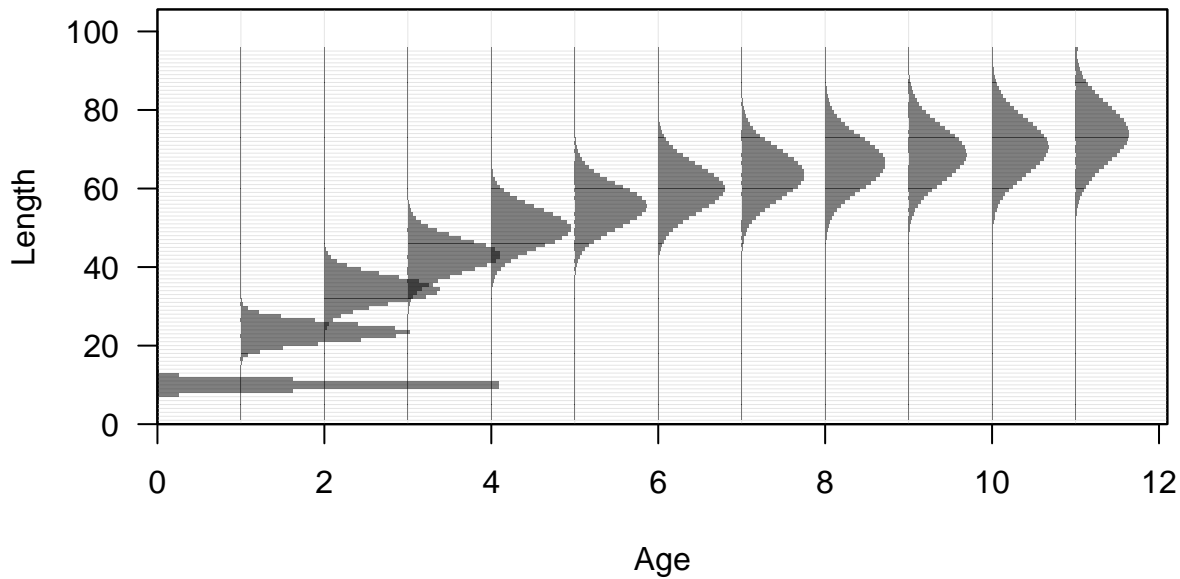
Length (cm, beginning of the year)

















Fecundity

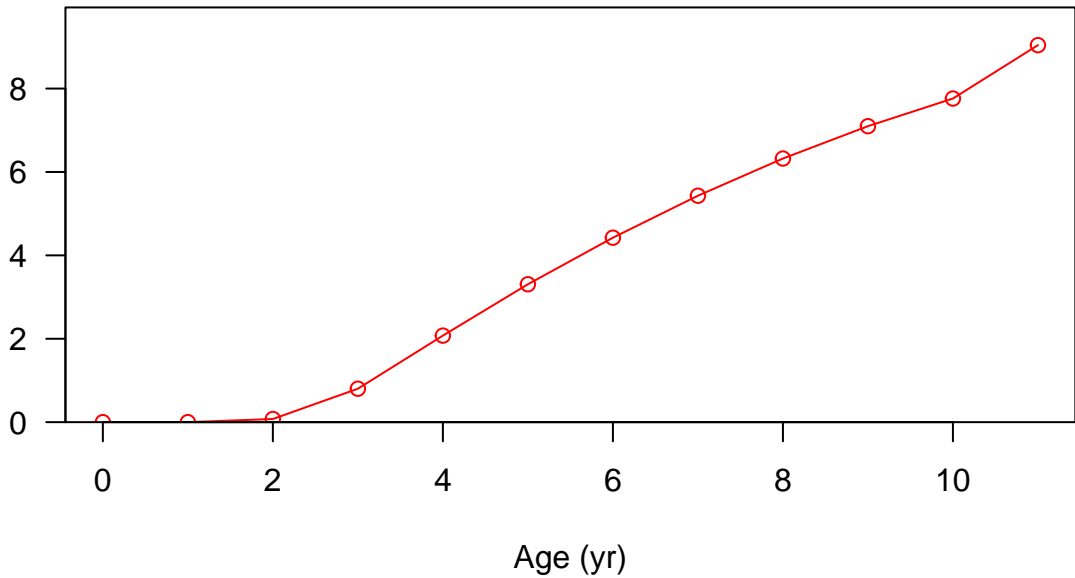




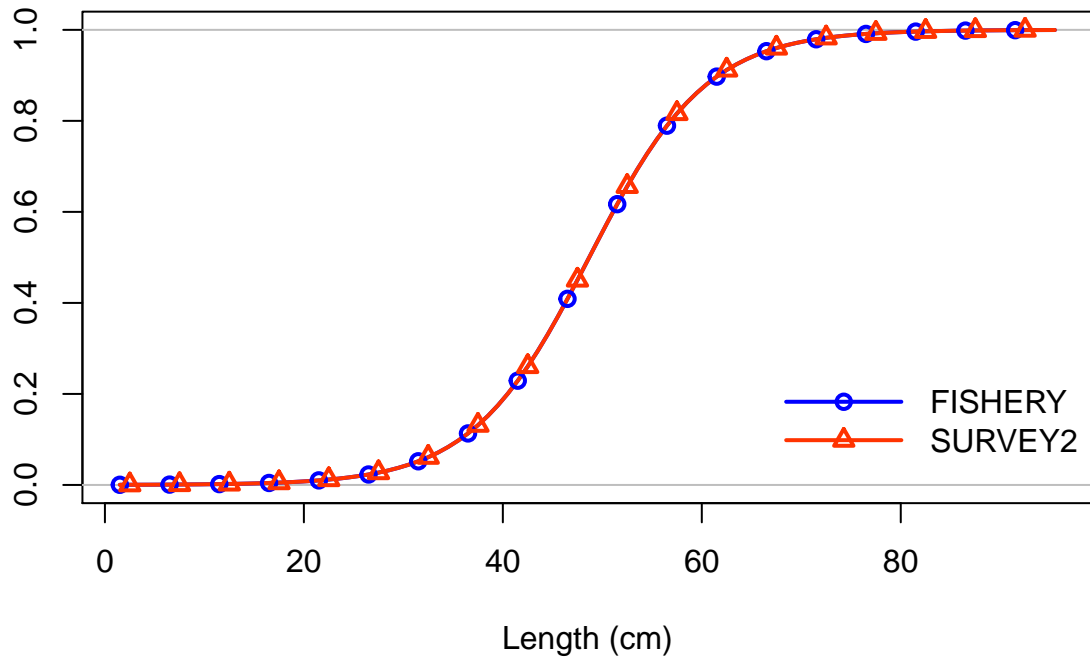
Spawning output



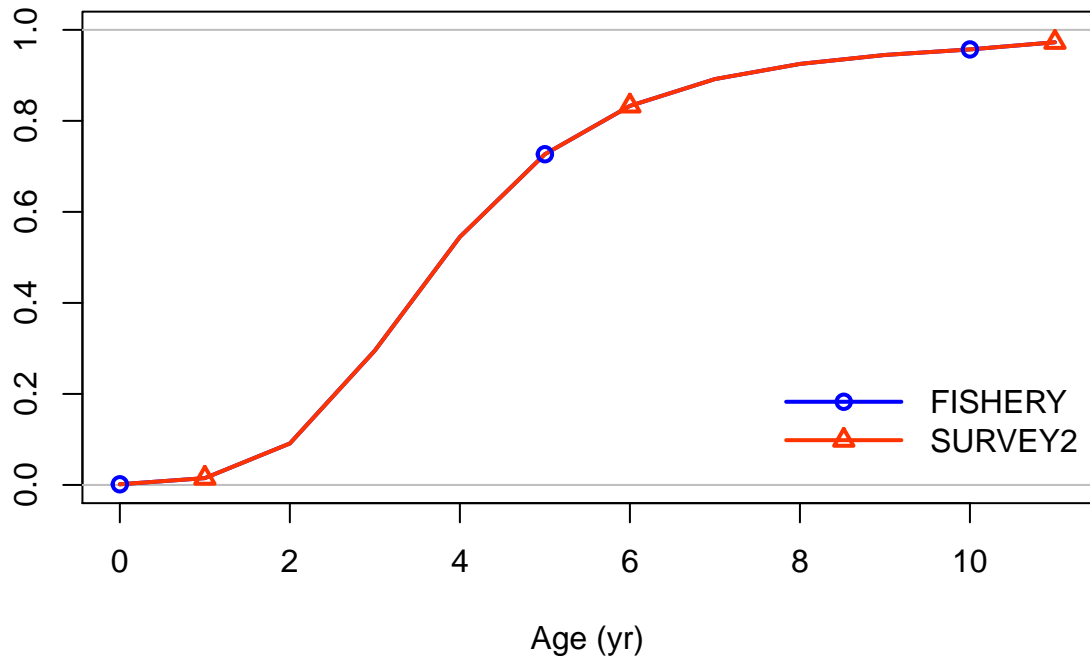
Spawning output



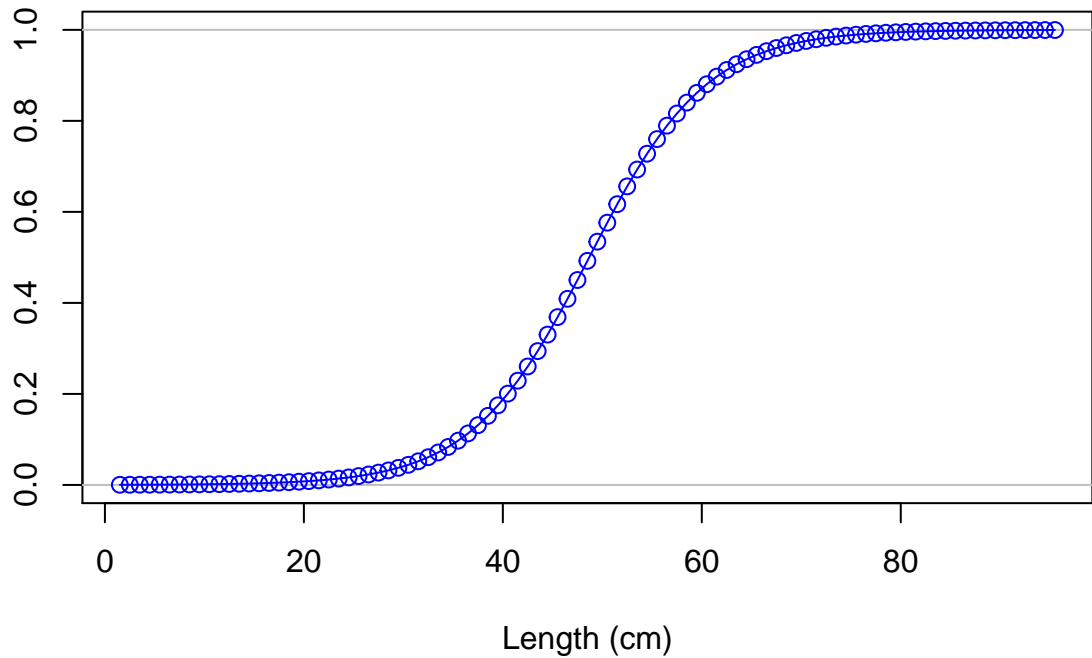
Selectivity



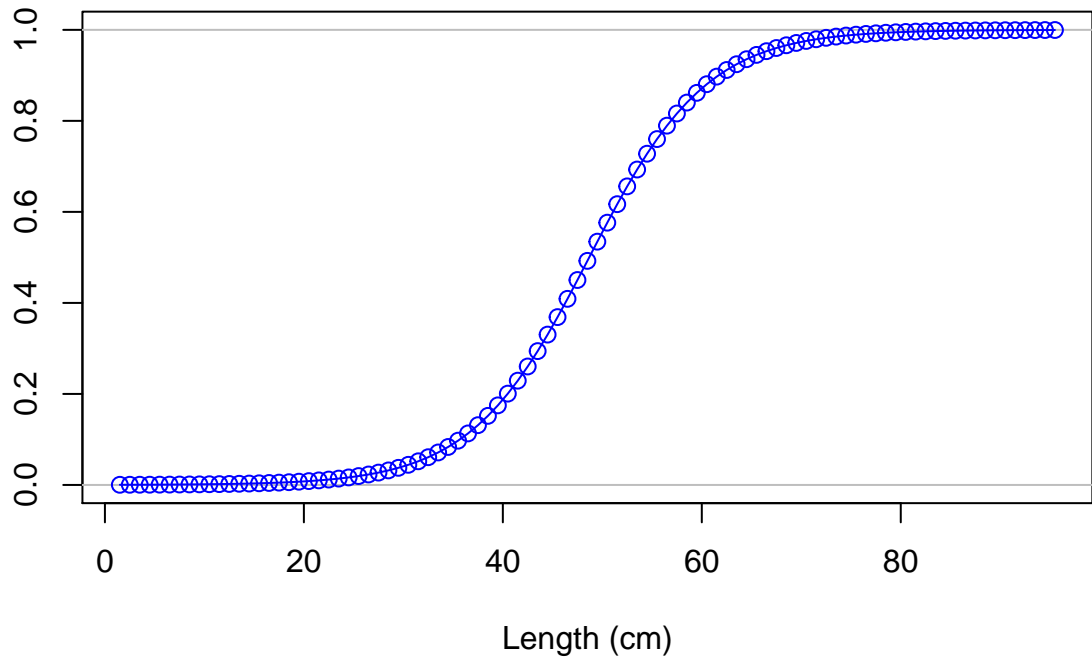
Selectivity

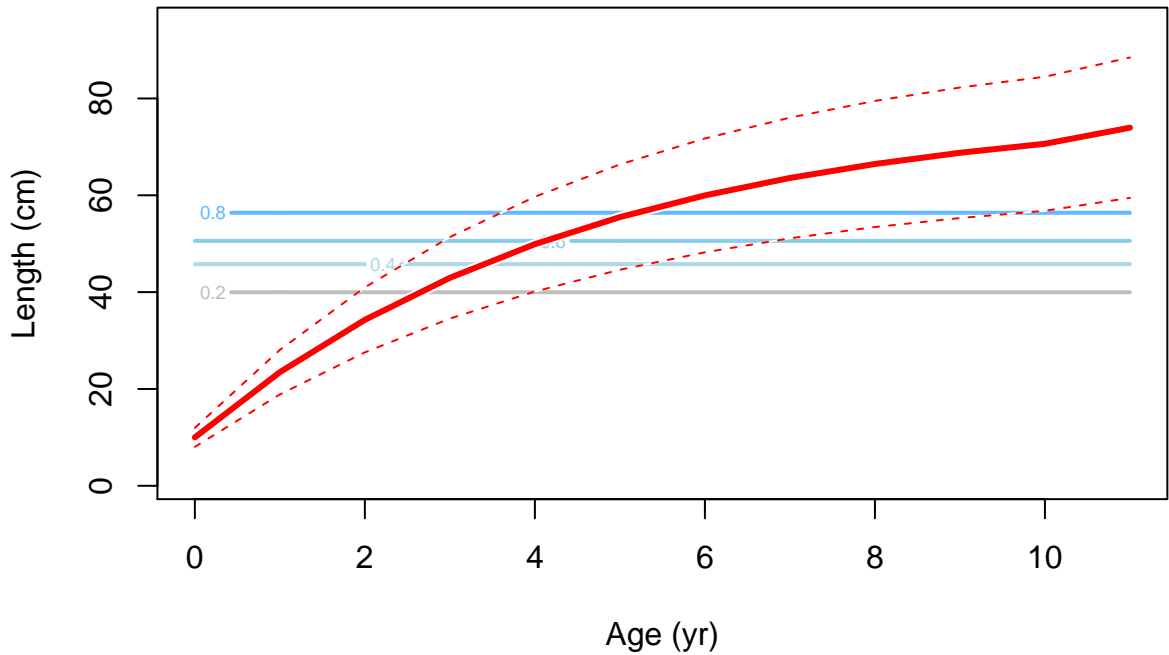


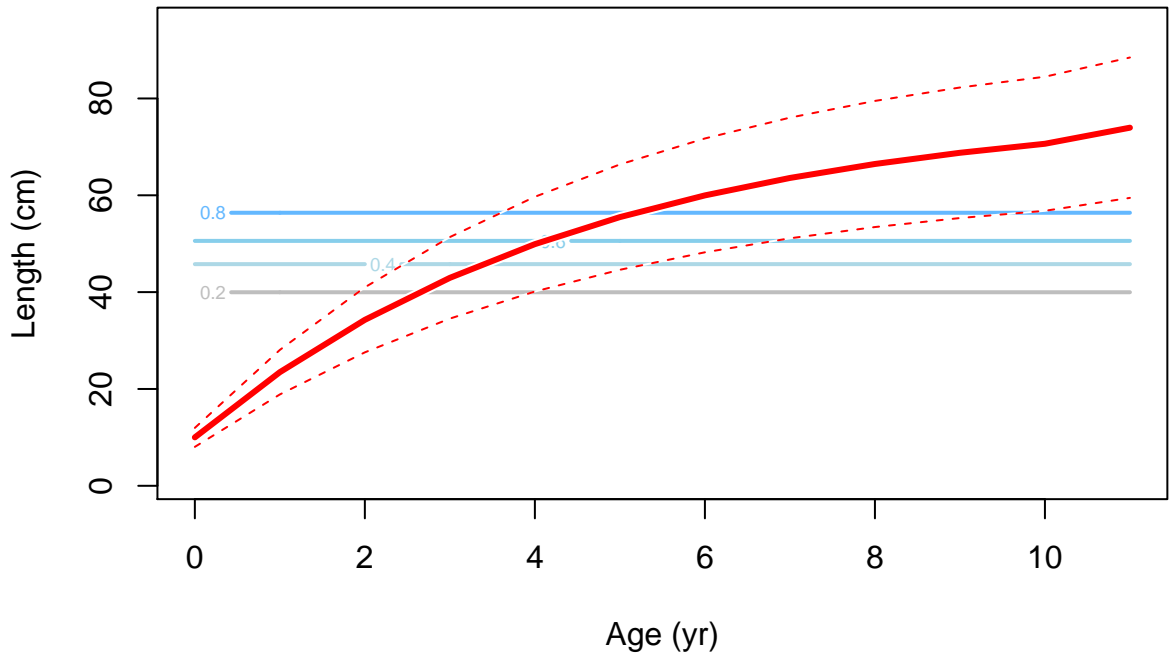
Selectivity

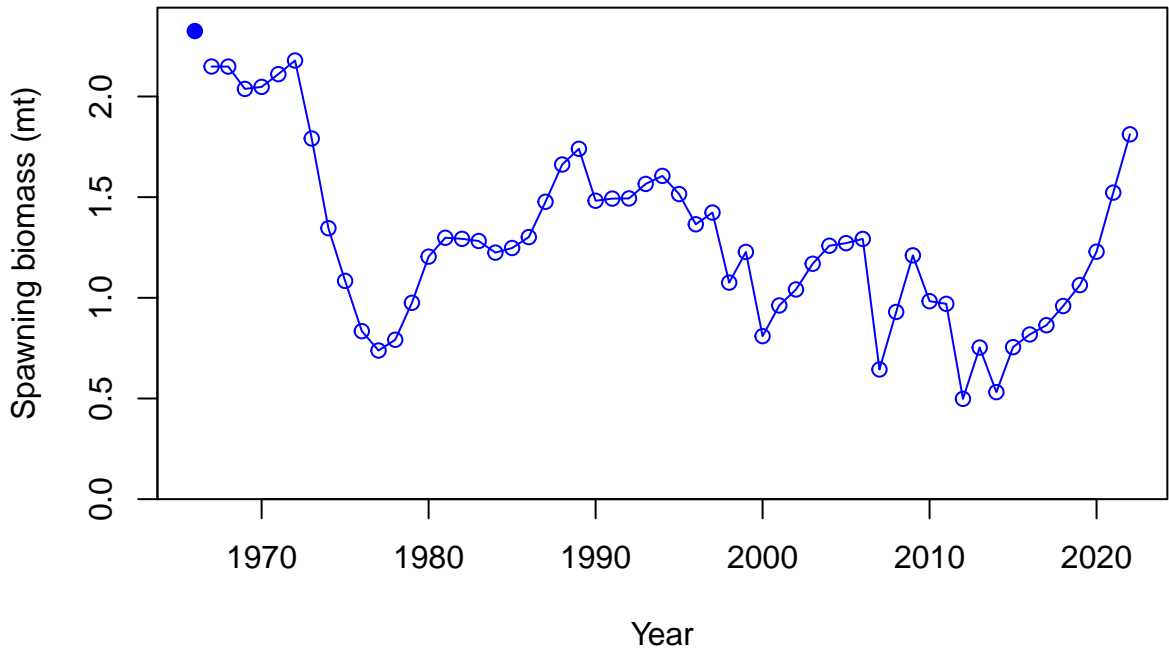


Selectivity

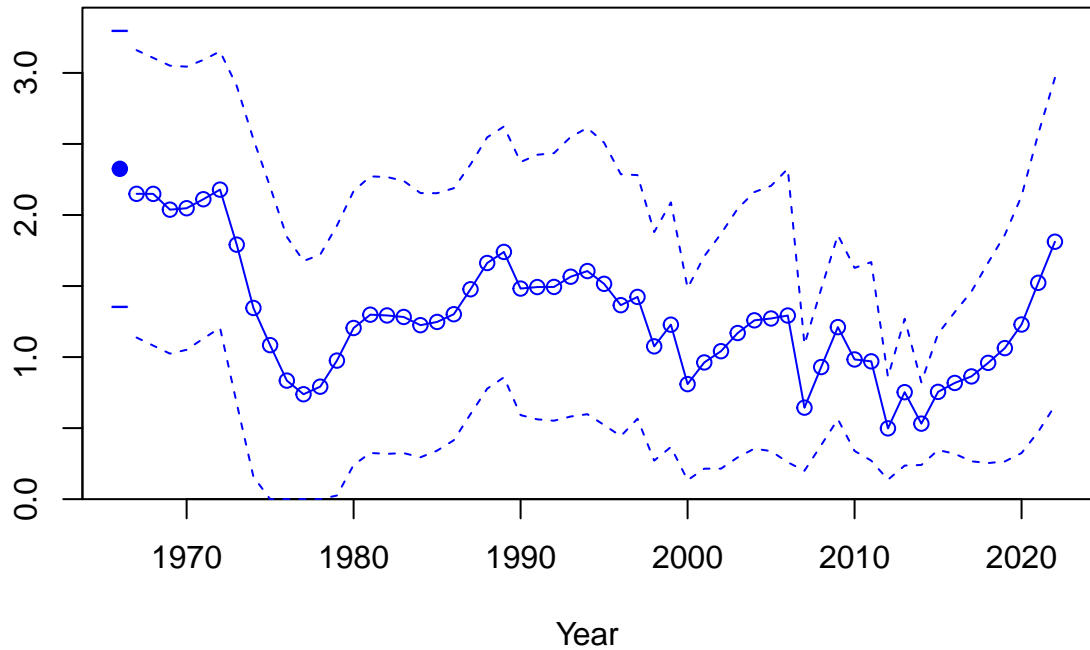




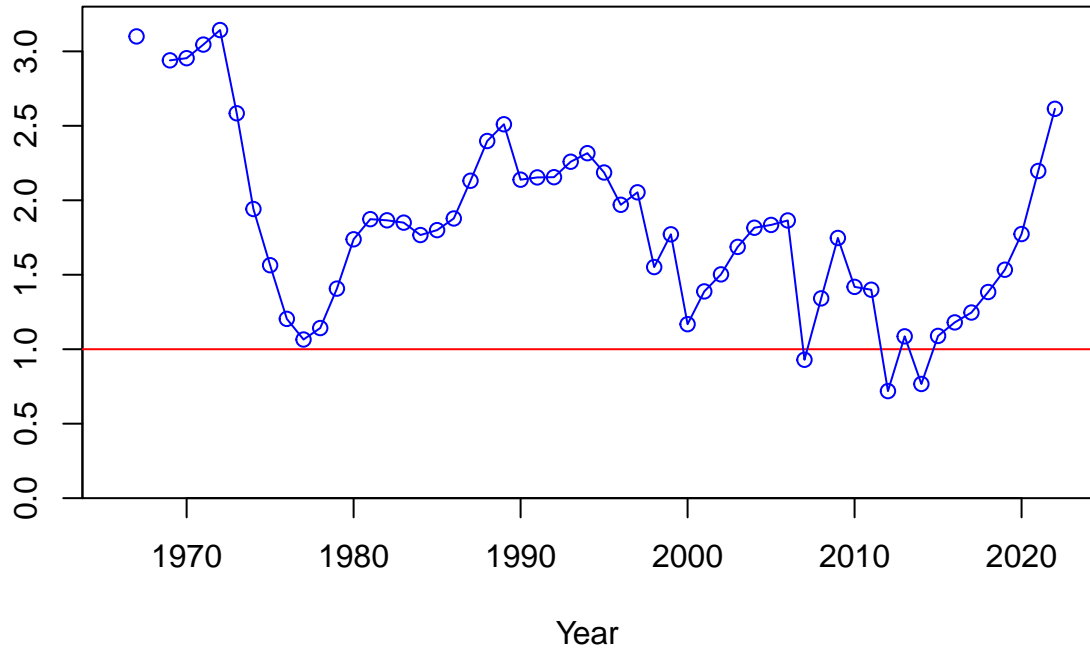




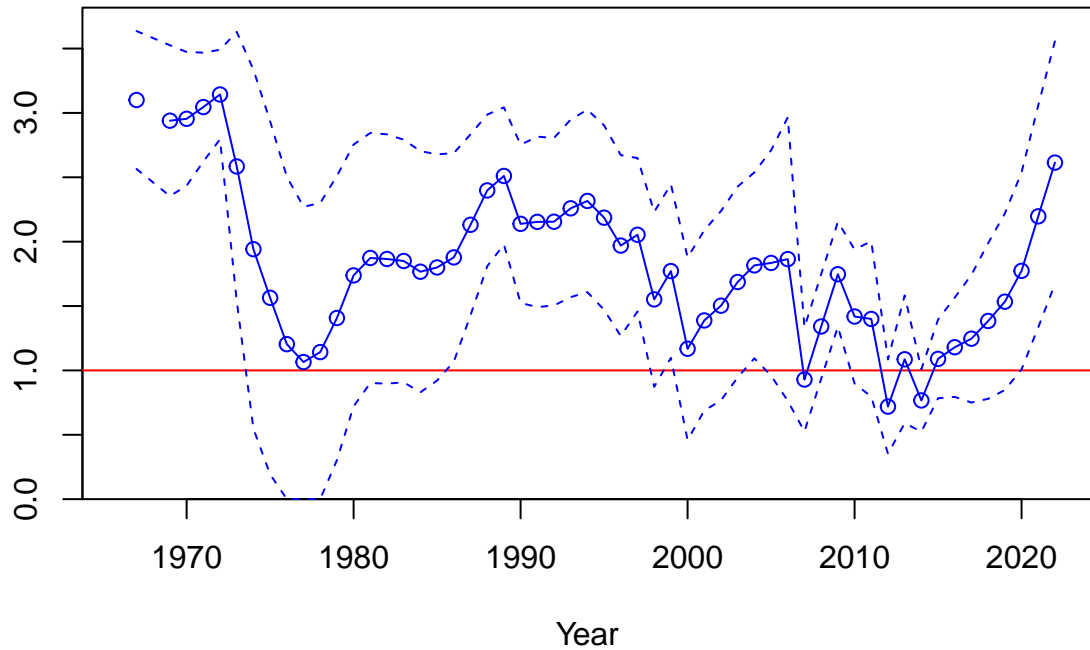
Spawning biomass (mt)

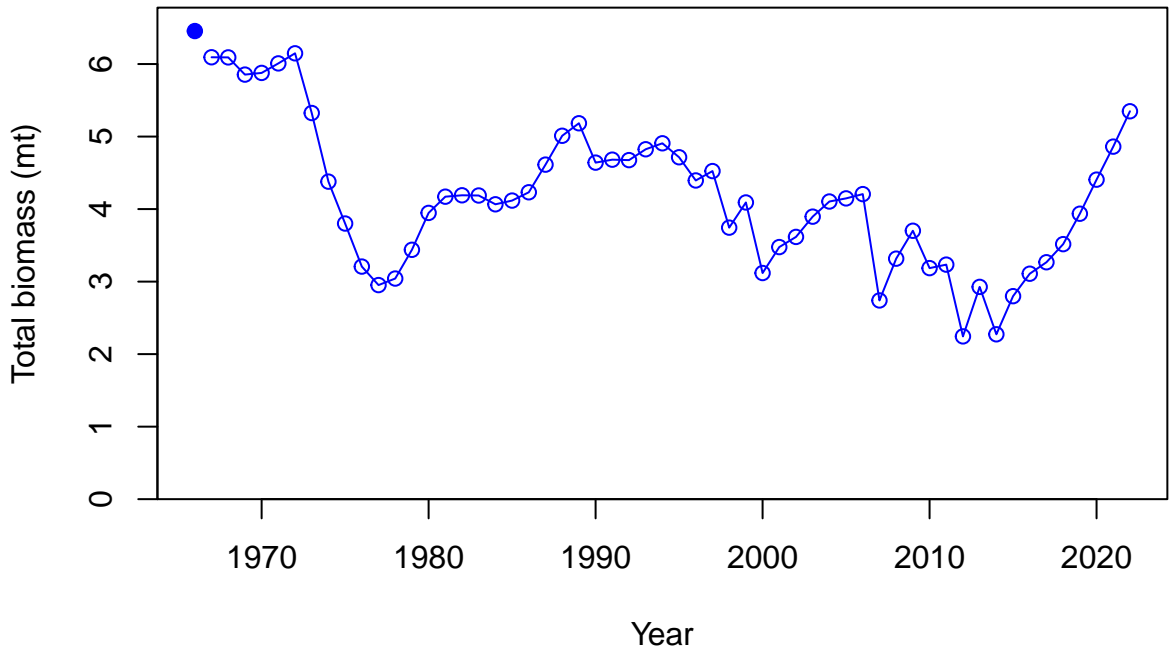


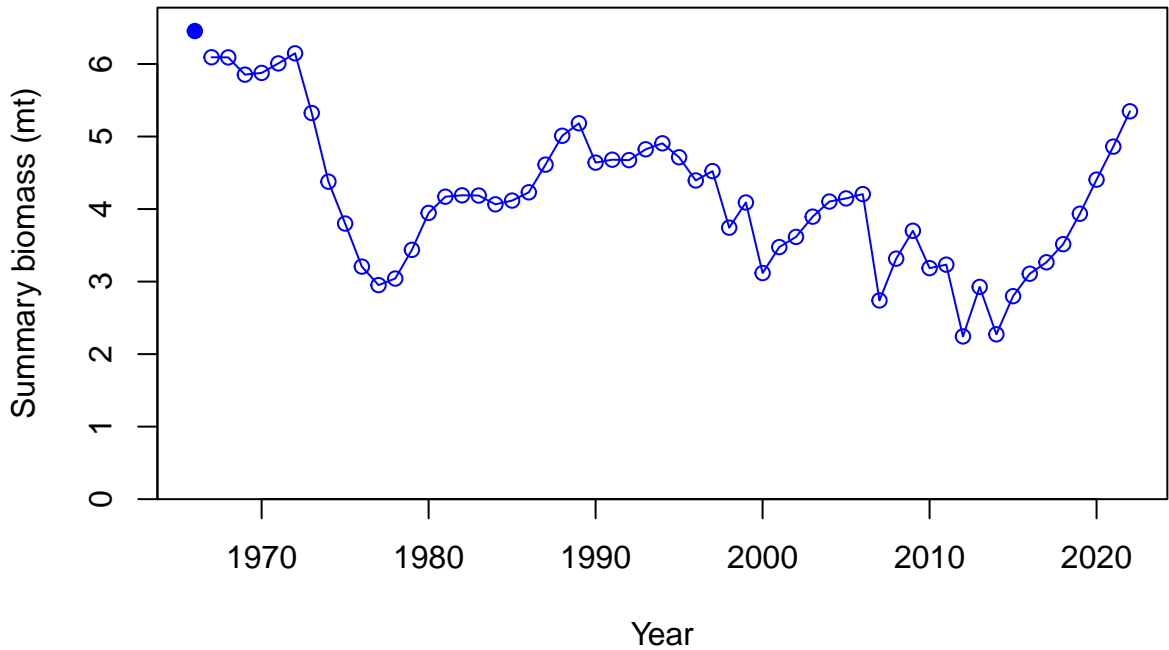
Relative spawning biomass: B/B_{MSY}



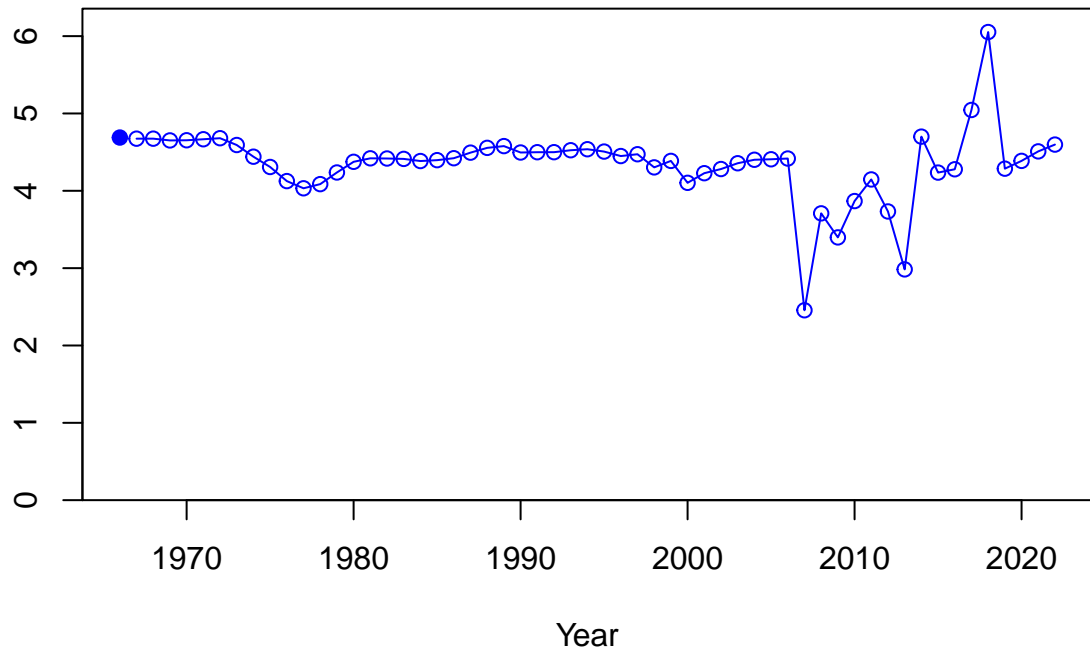
Relative spawning biomass: B/B_{MSY}

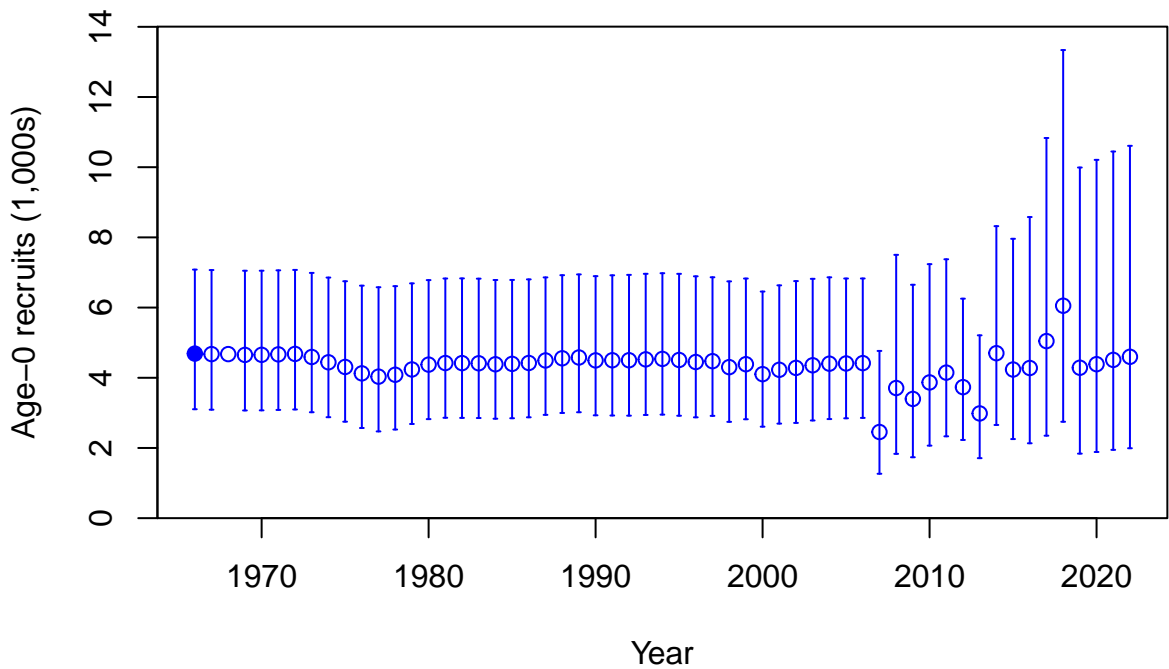




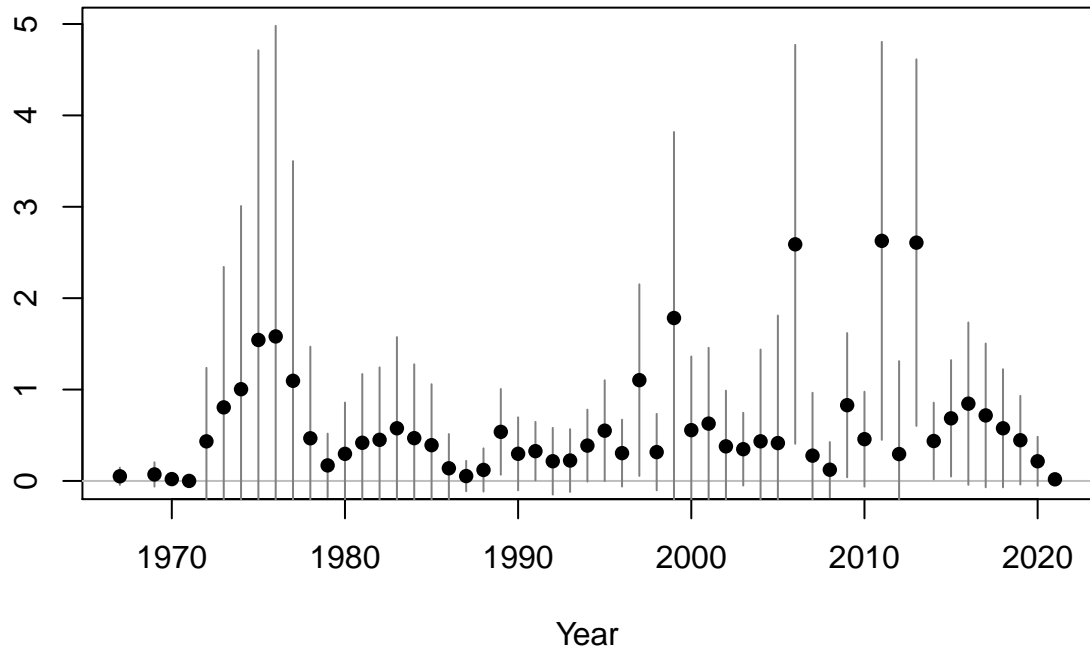


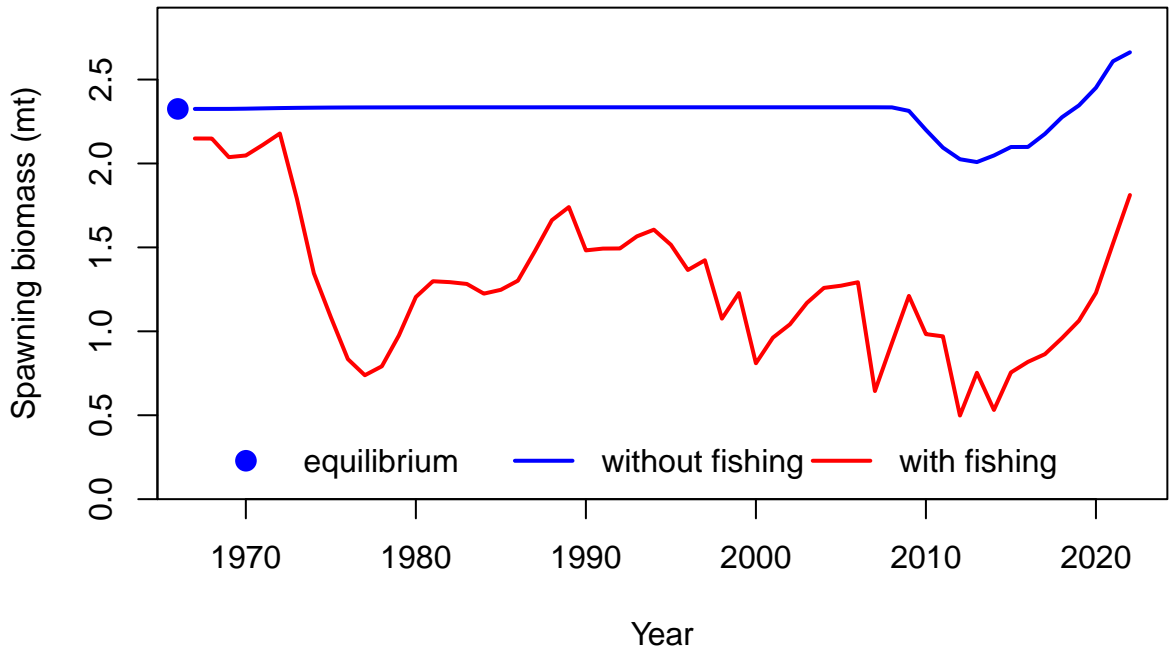
Age-0 recruits (1,000s)



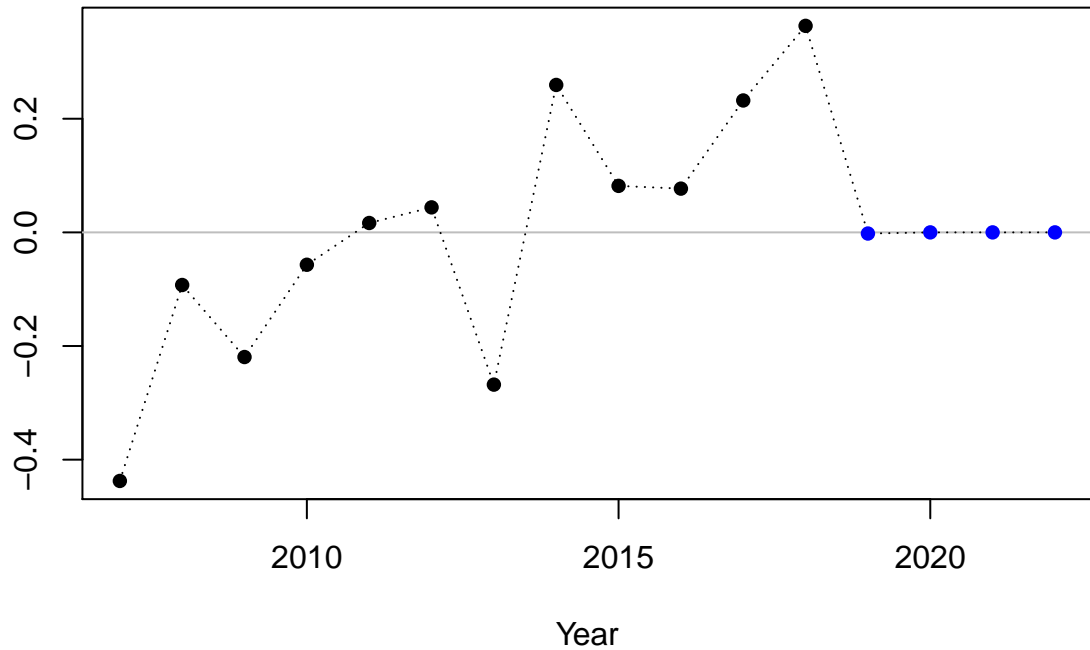


Summary Fishing Mortality

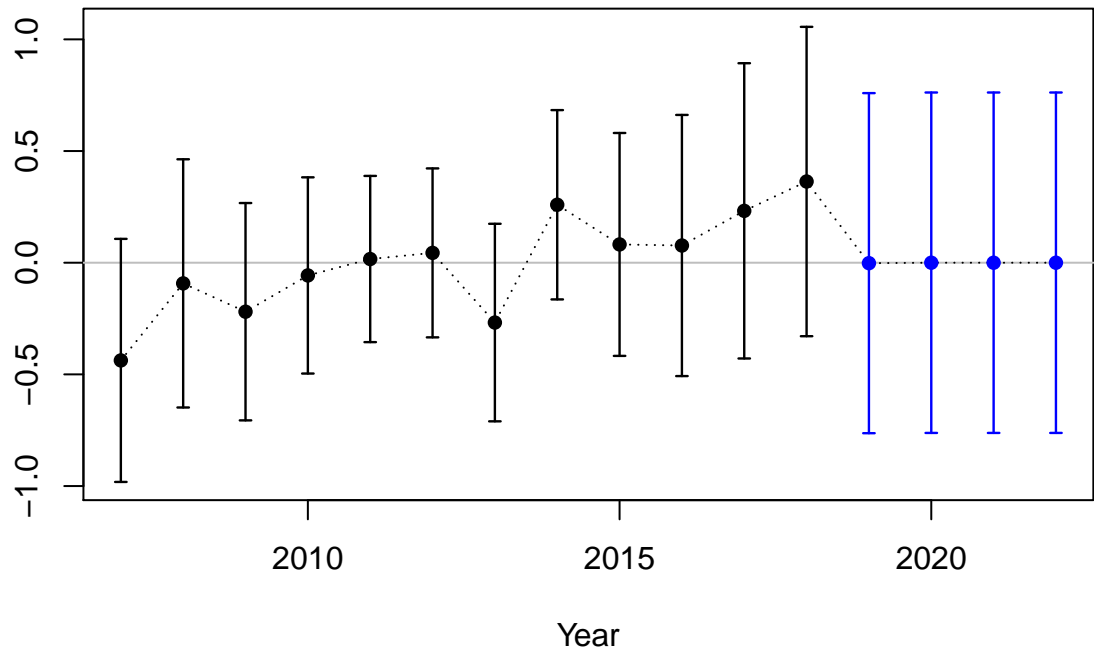




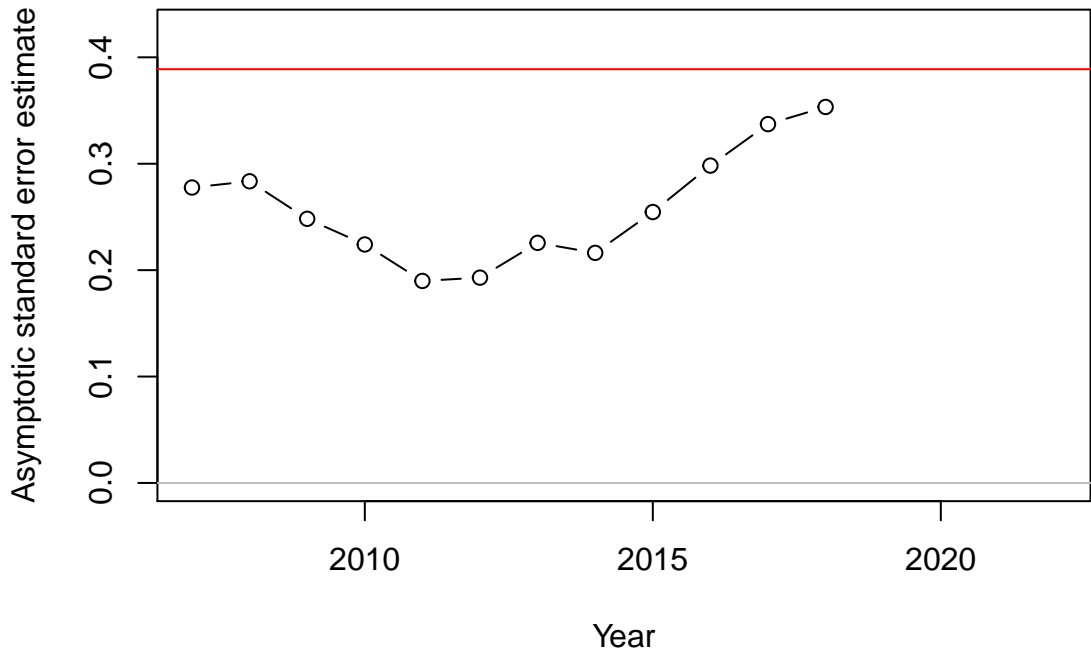
Log recruitment deviation

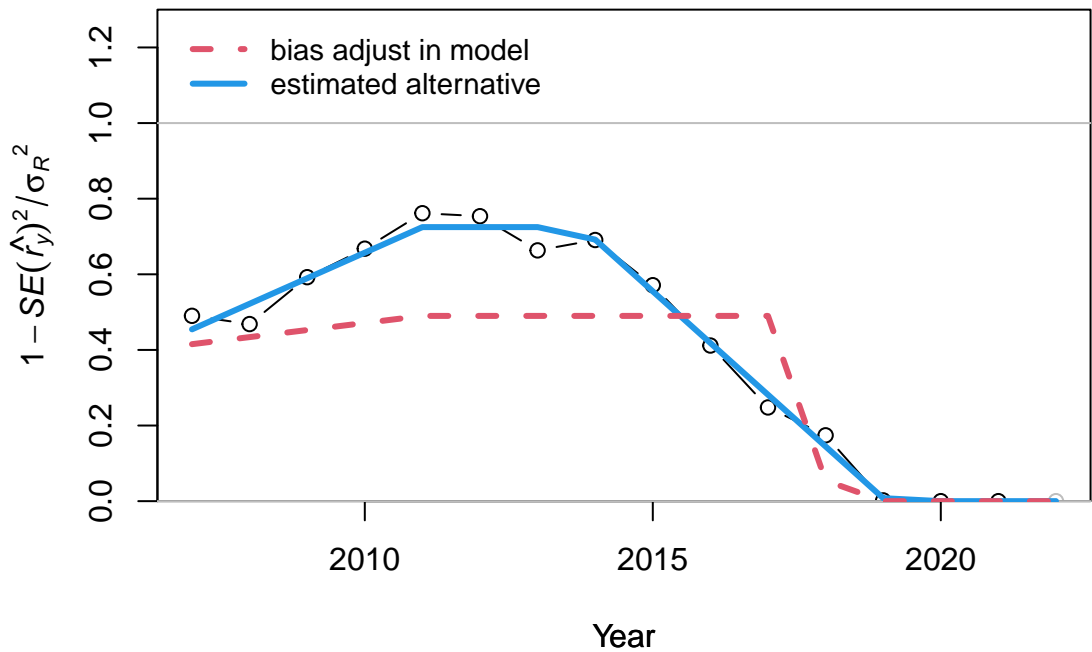


Log recruitment deviation

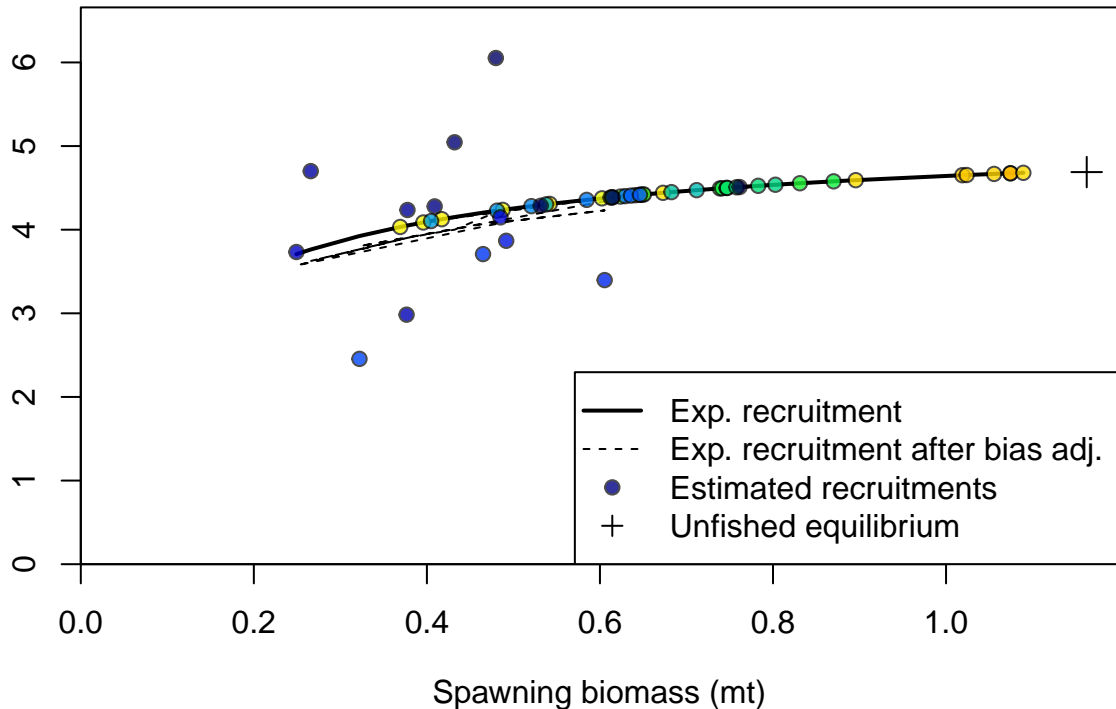


Recruitment deviation variance

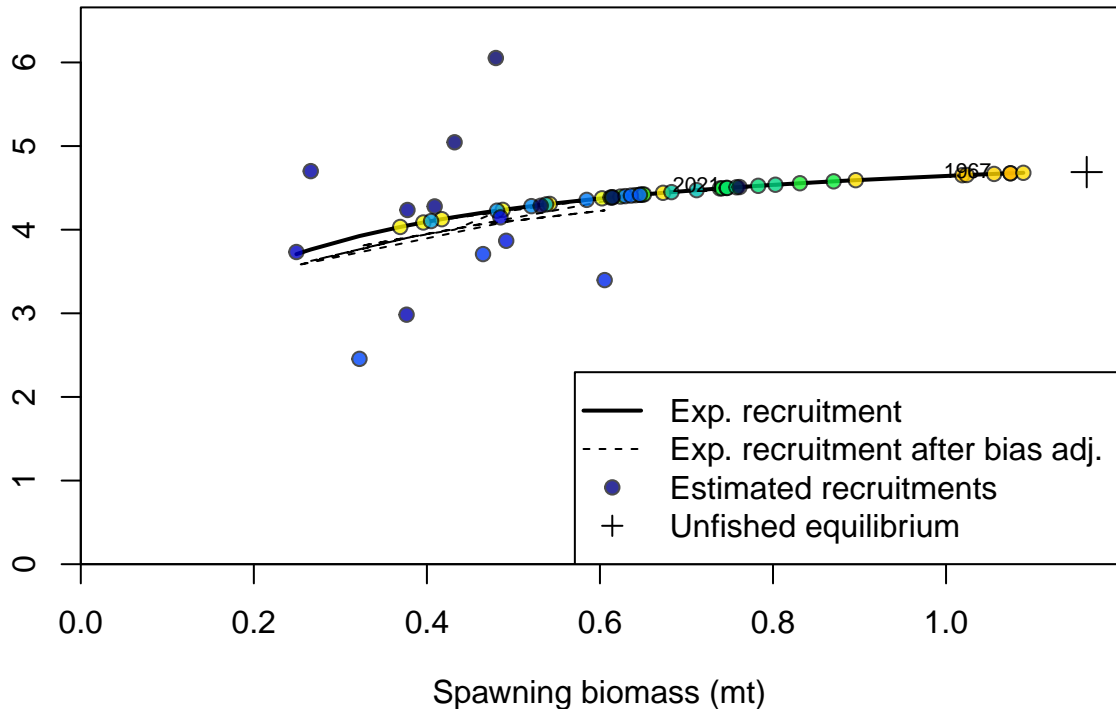




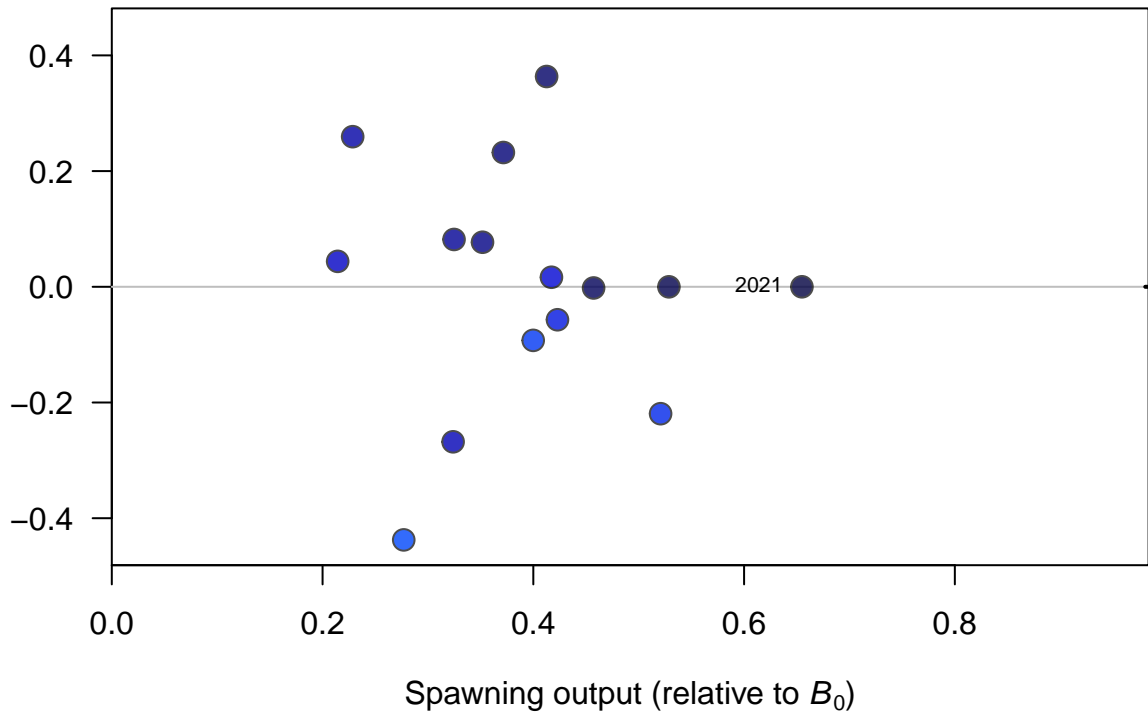
Recruitment (1,000s)

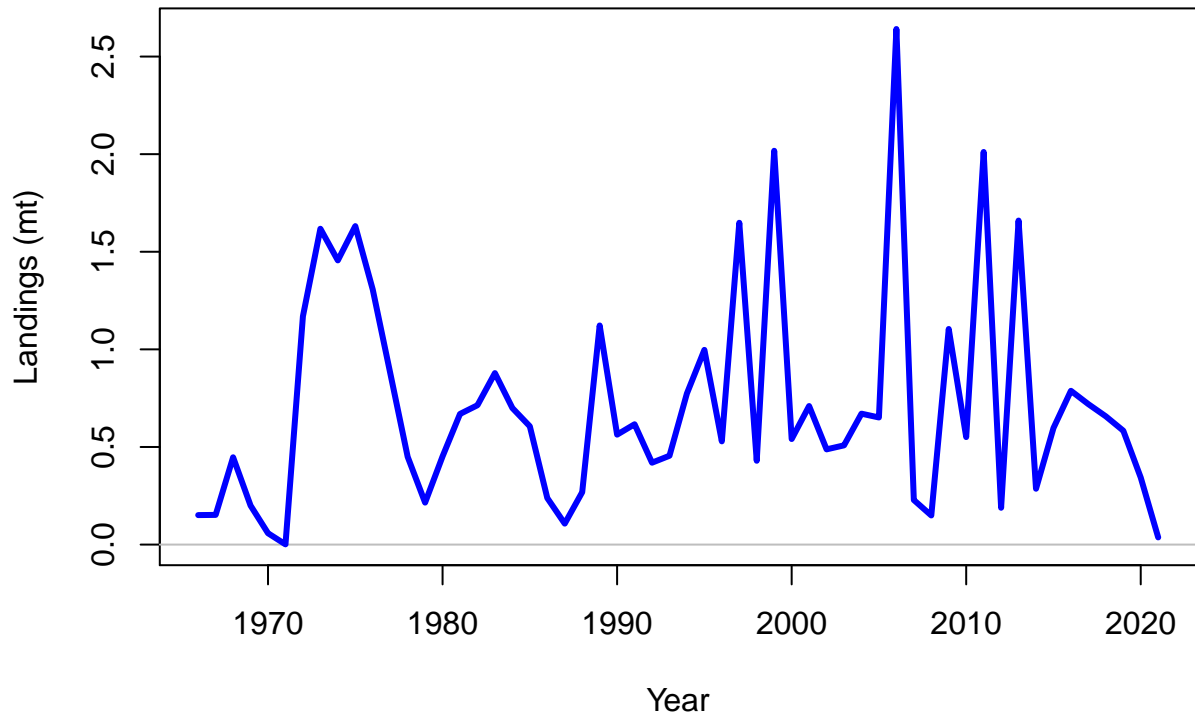


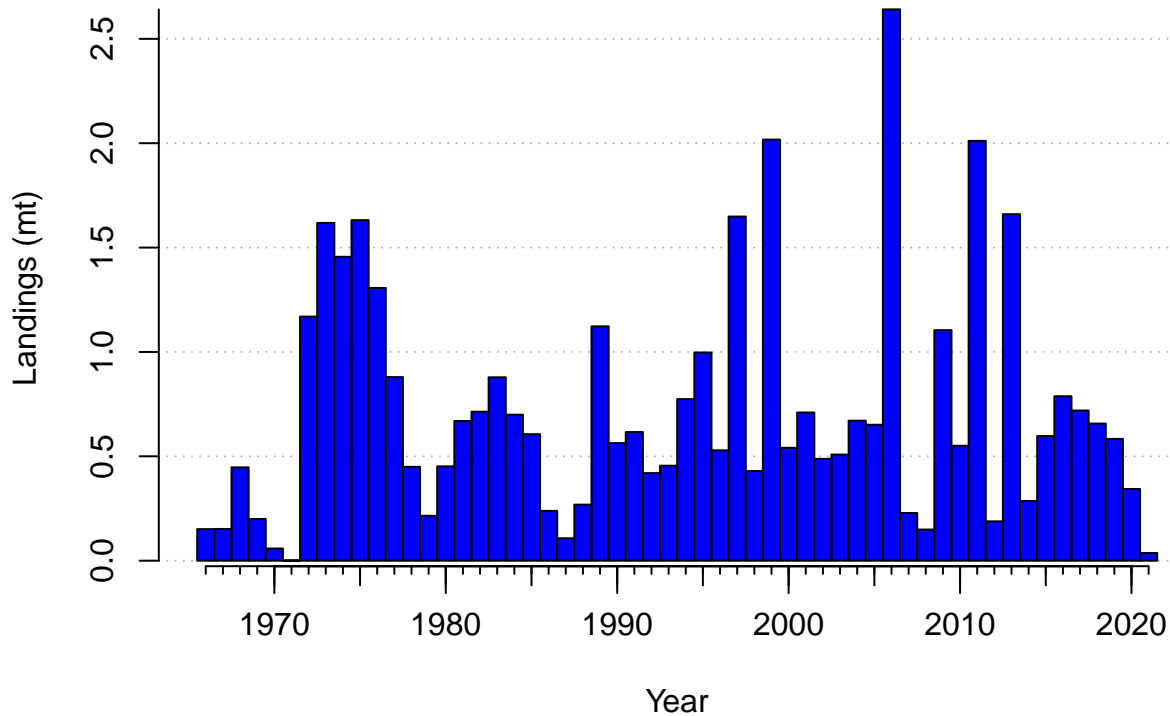
Recruitment (1,000s)



Log recruitment deviation







Observed and expected Landings (mt)

FISHERY
FISHERY obs.

3.0
2.5
2.0
1.5
1.0
0.5
0.0

1970

1980

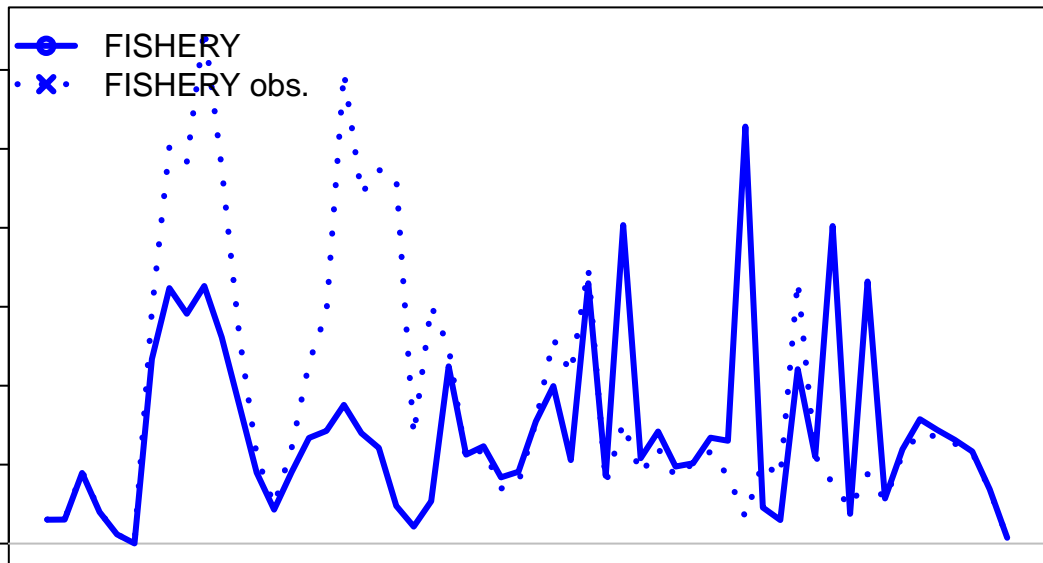
1990

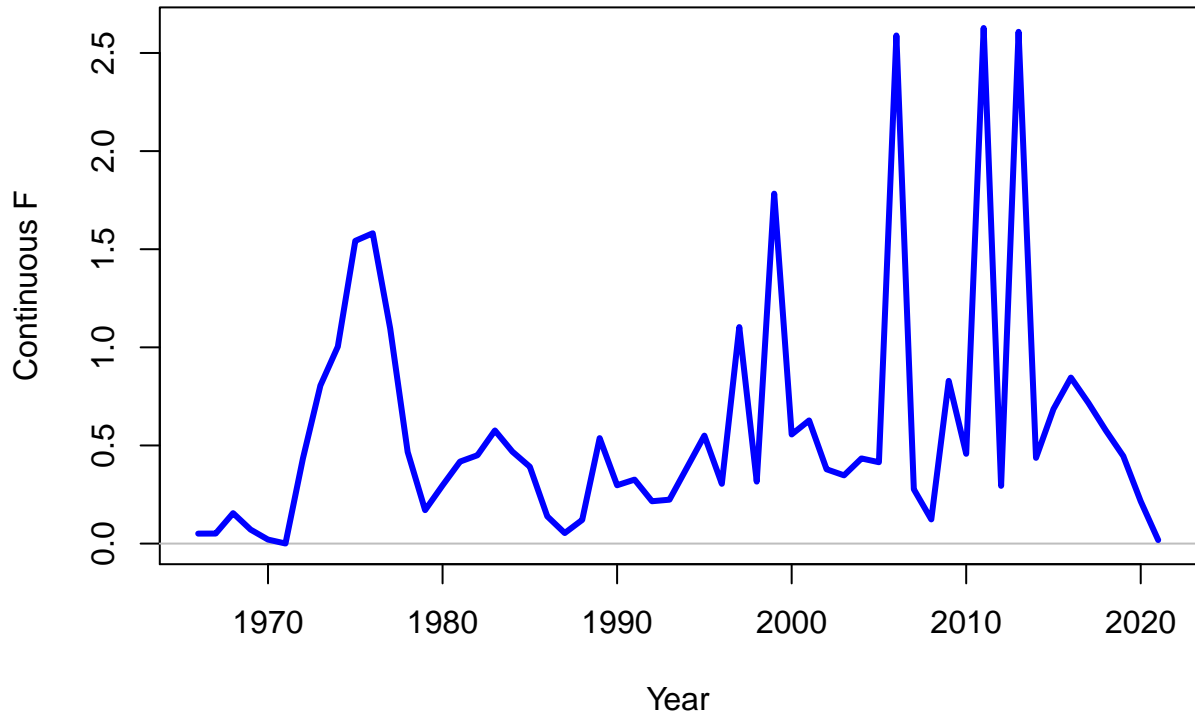
2000

2010

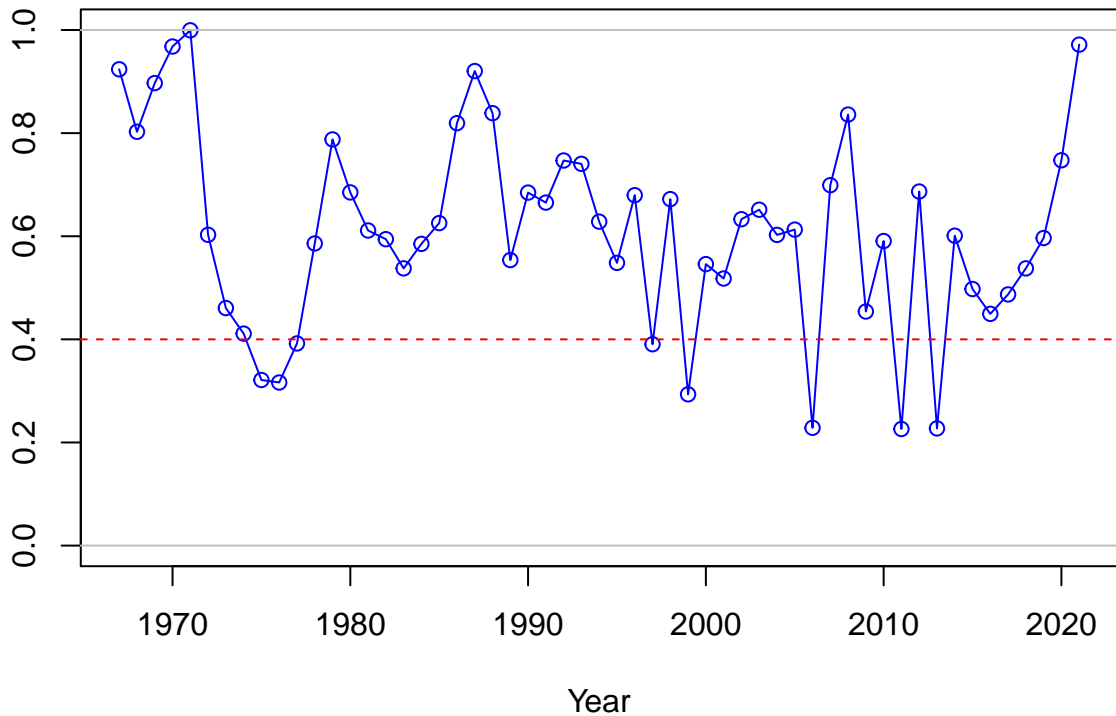
2020

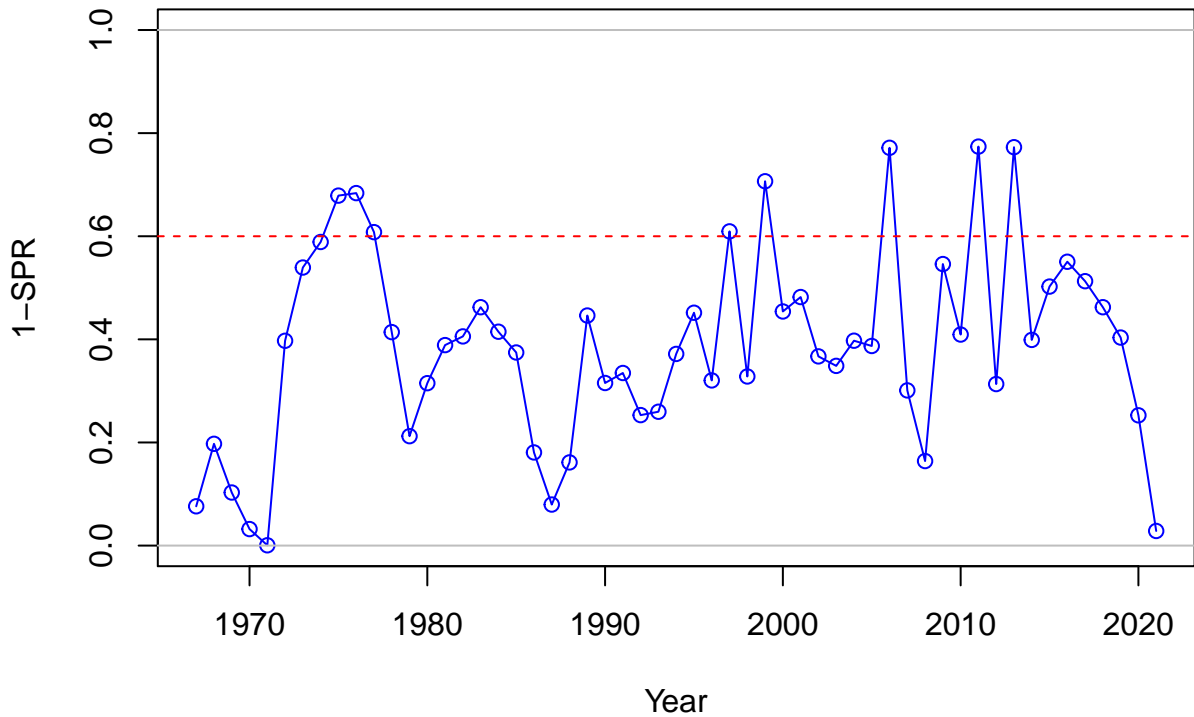
Year



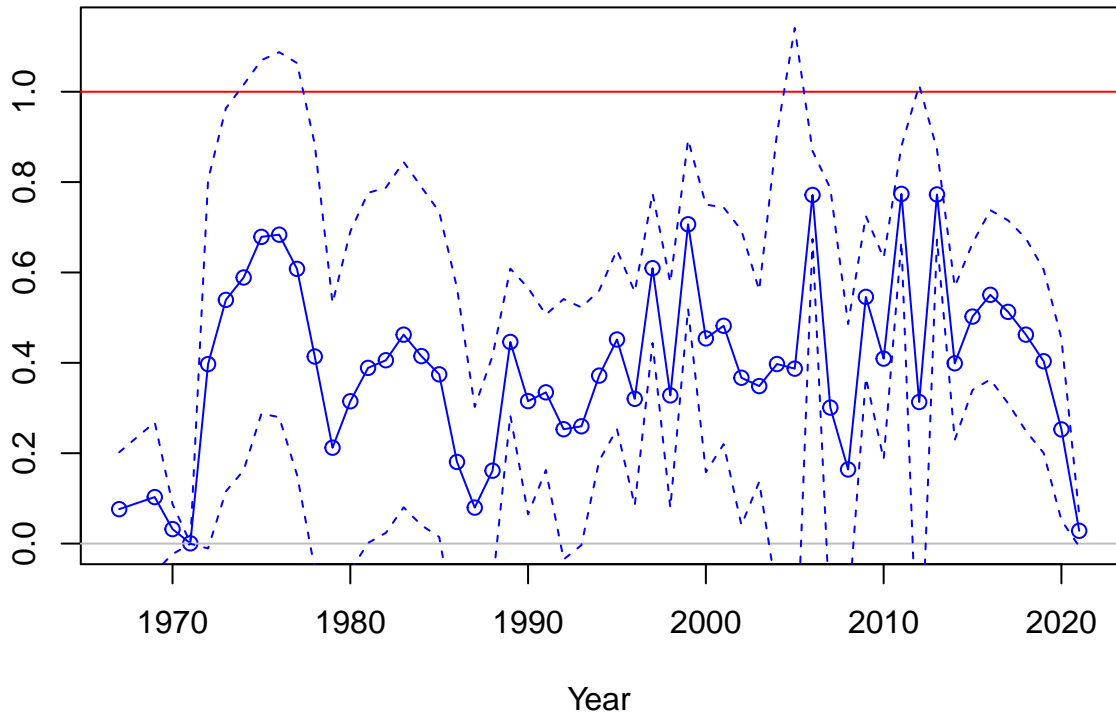


SPR

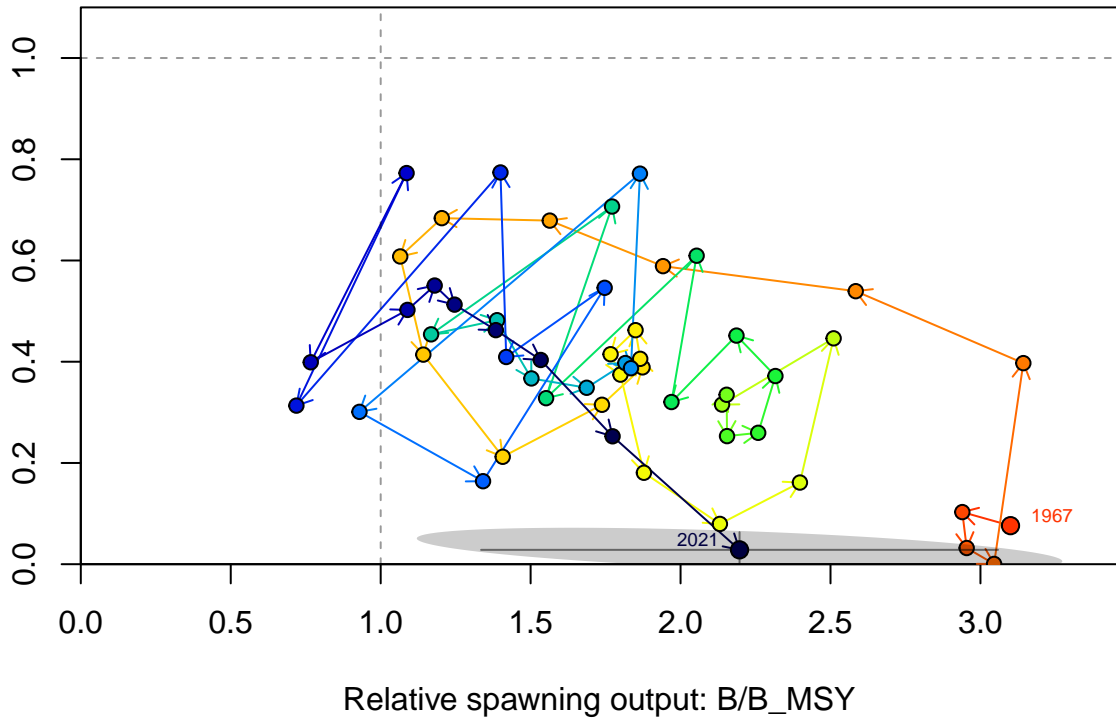




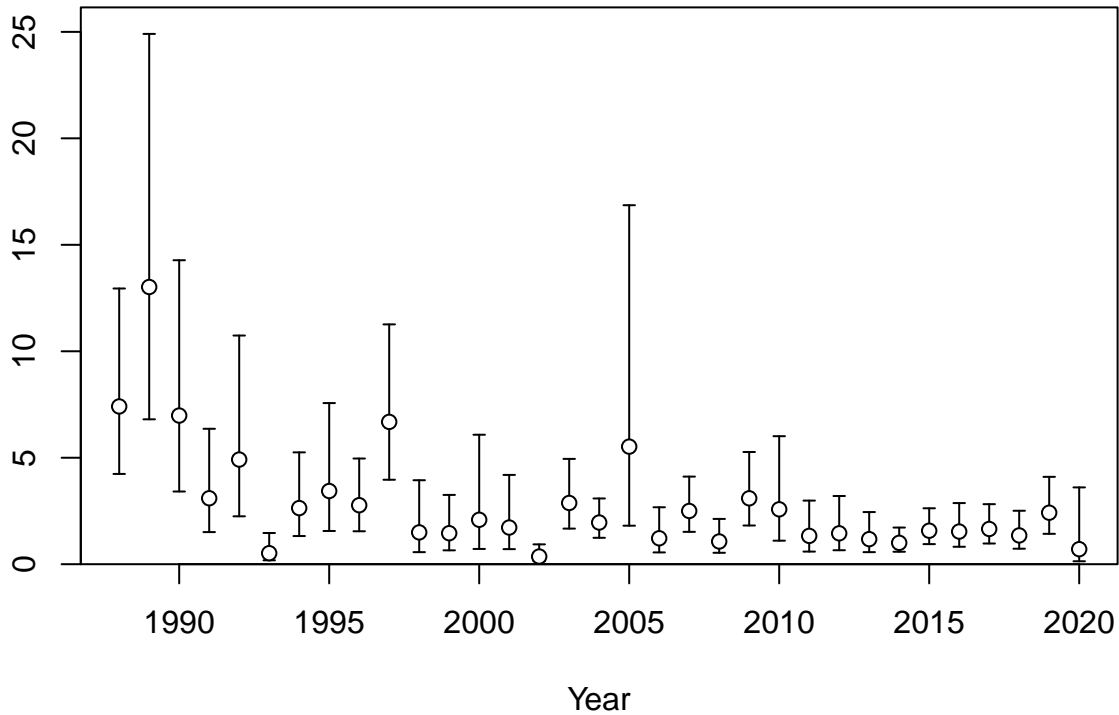
Fishing intensity: 1-SPR



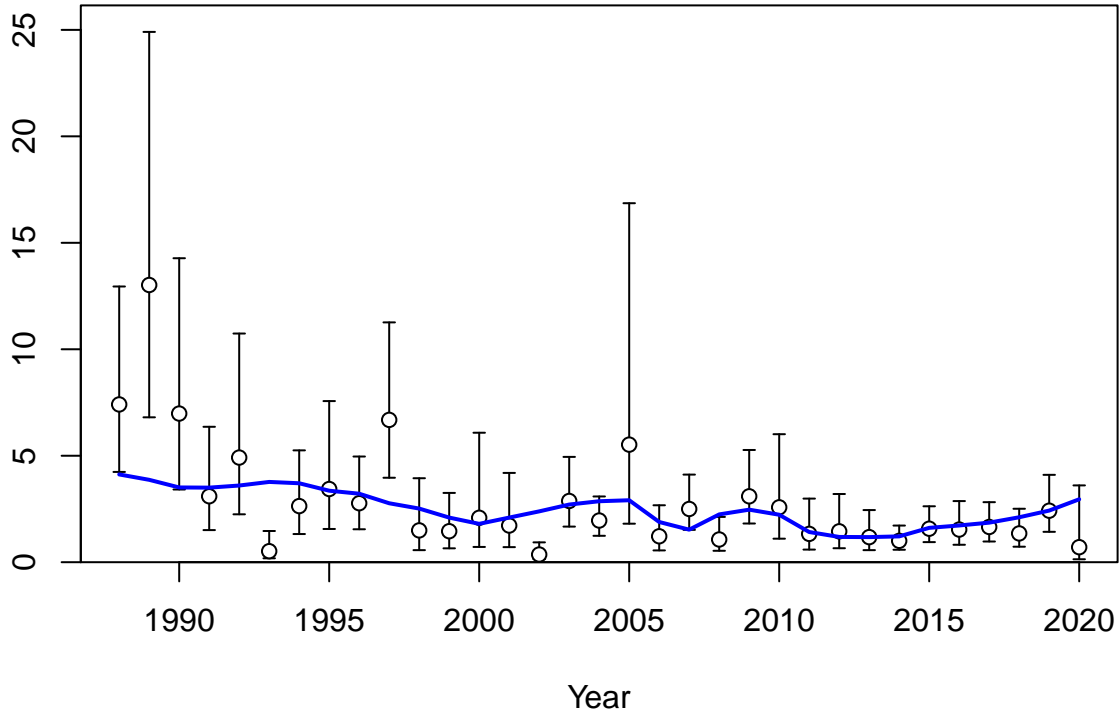
Fishing intensity: 1-SPR

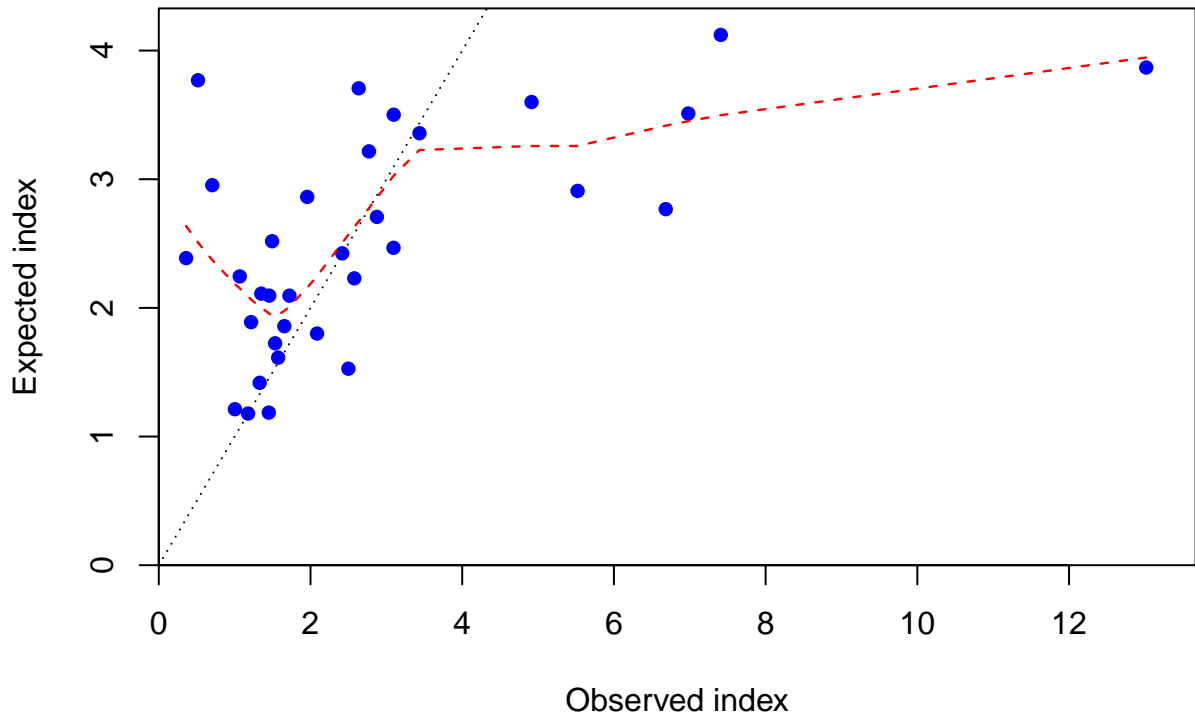


Index

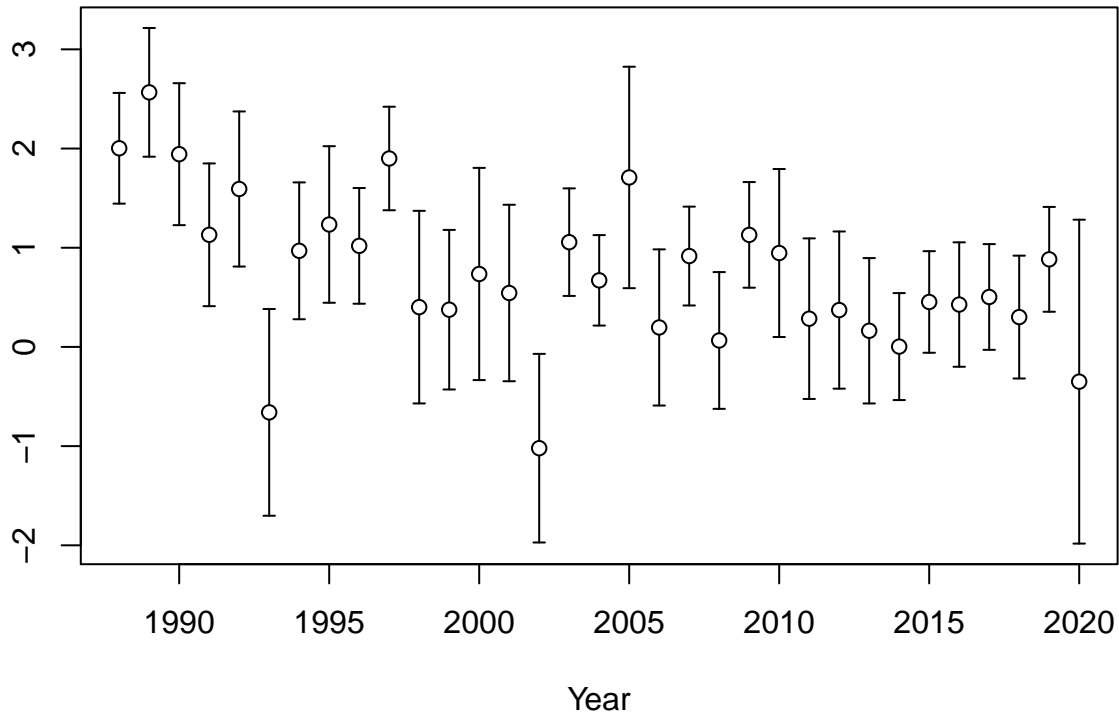


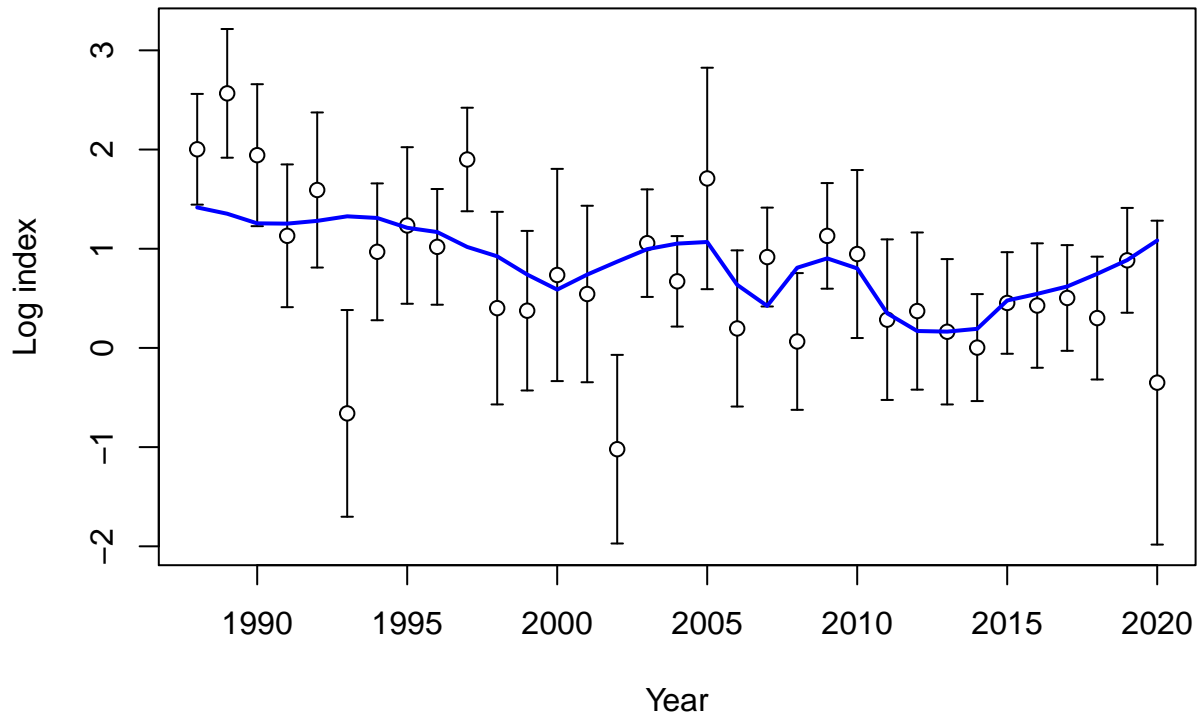
Index

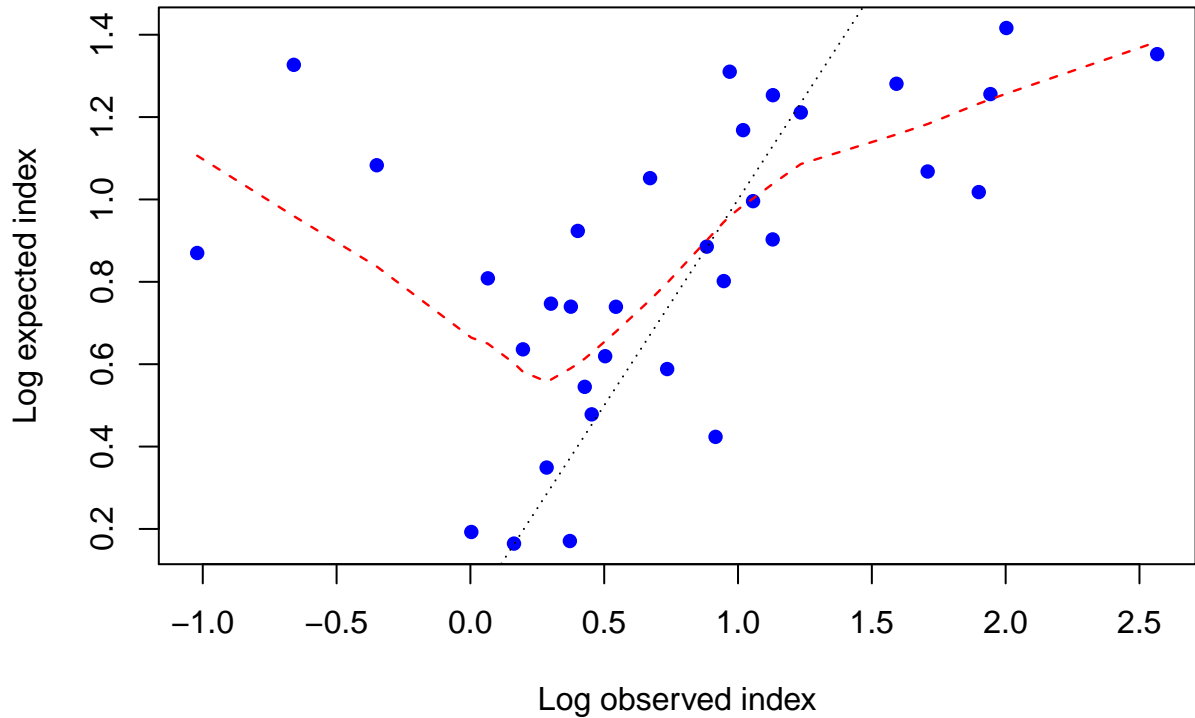


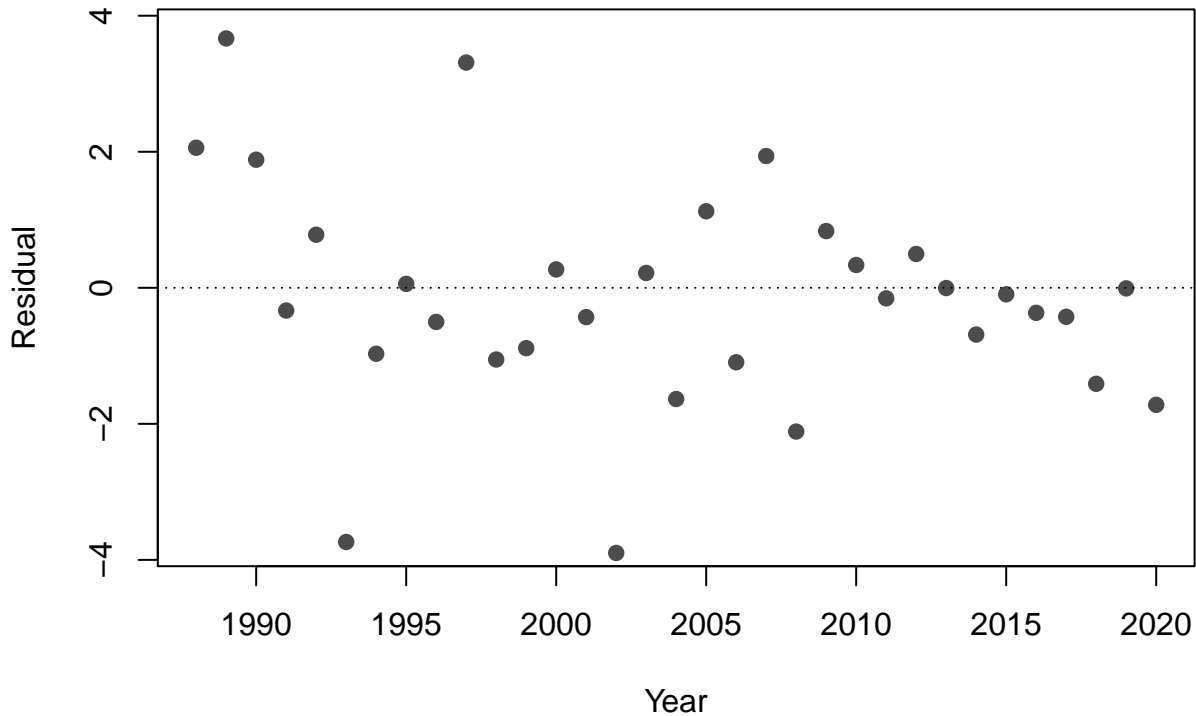


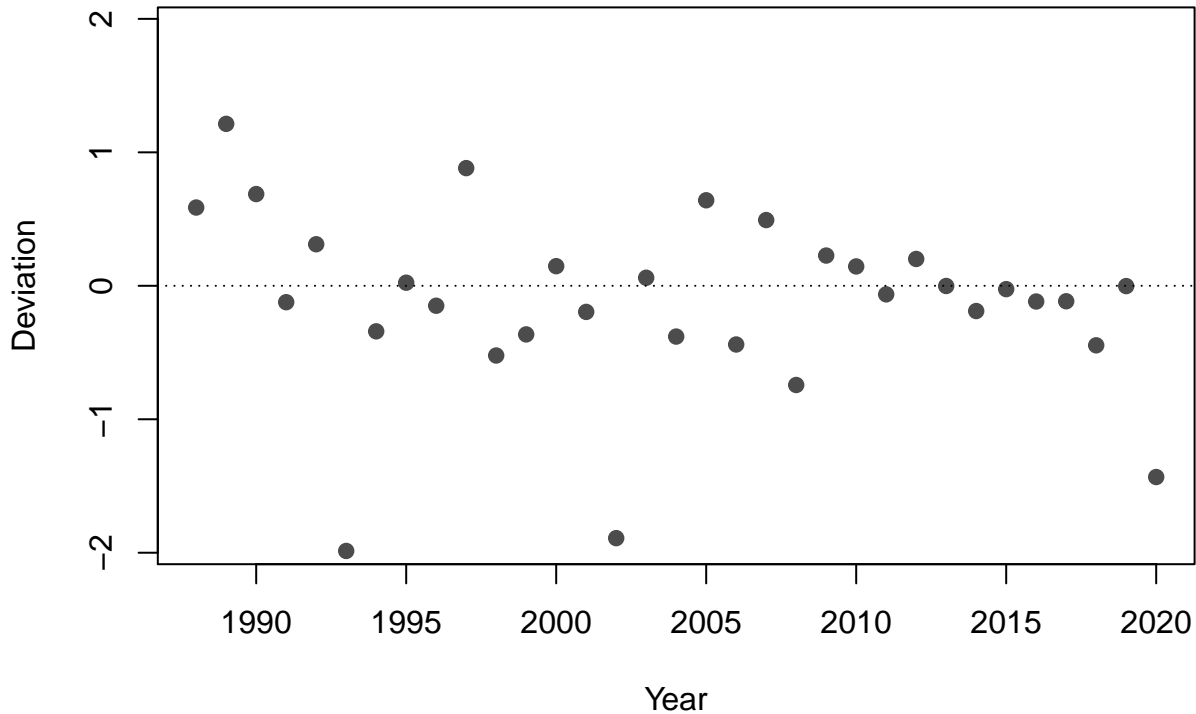
Log index

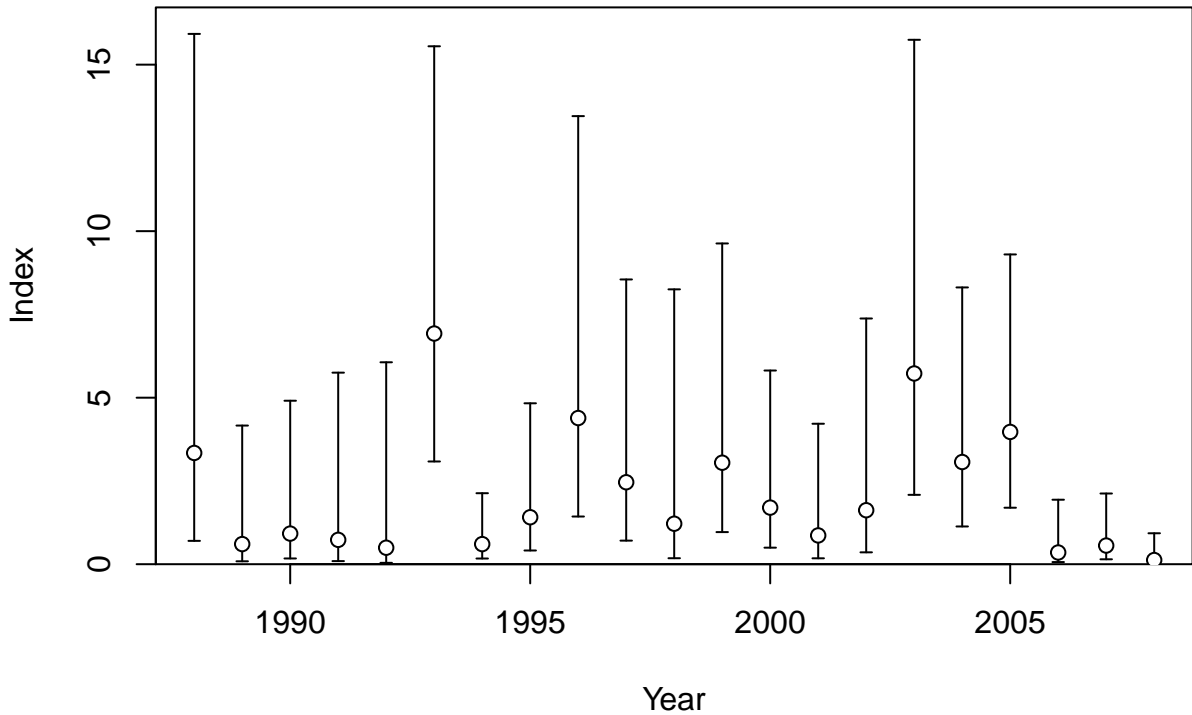


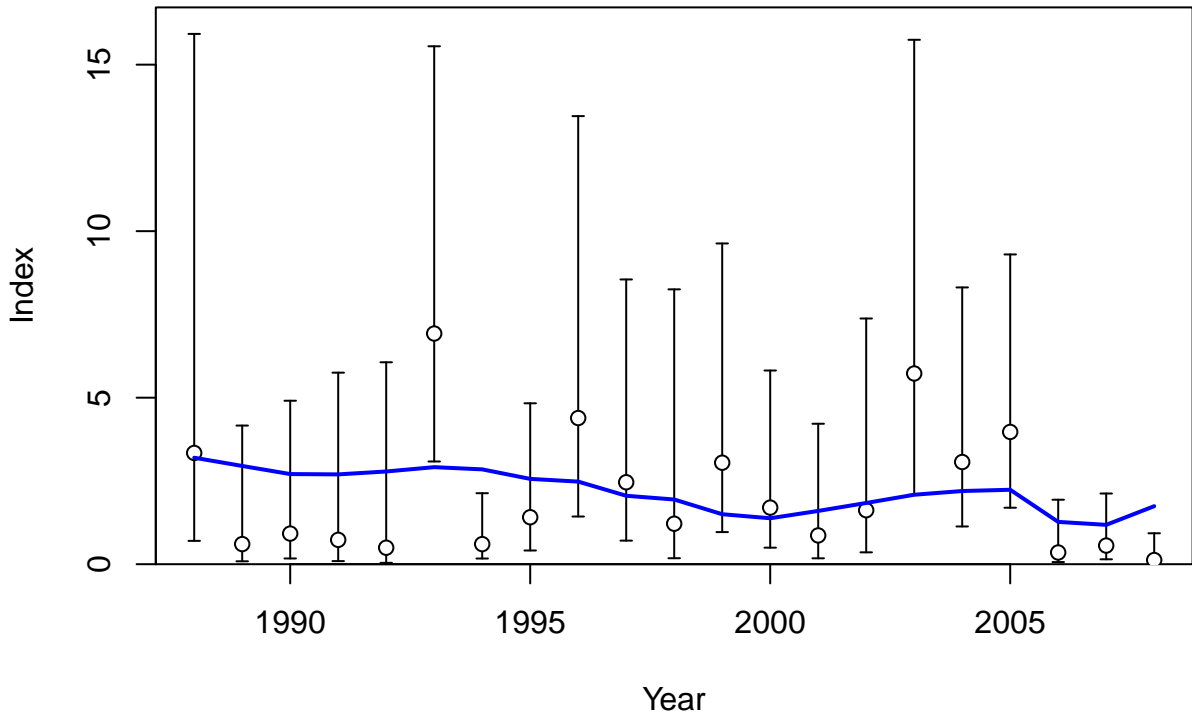


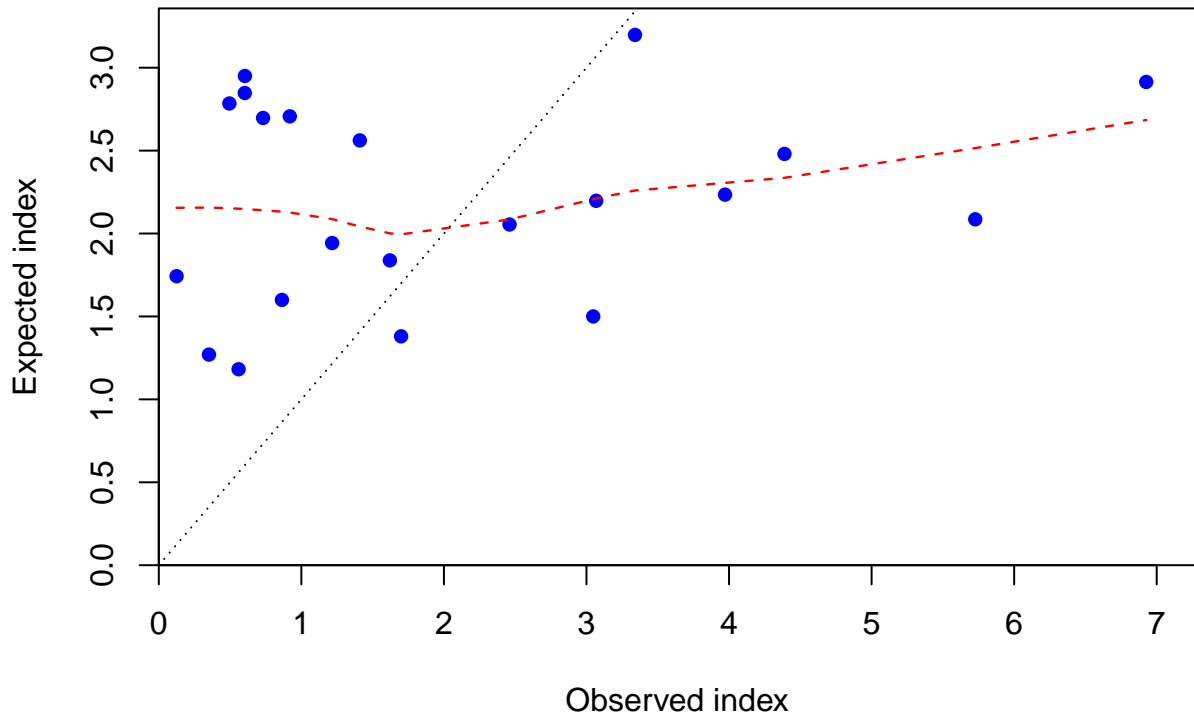




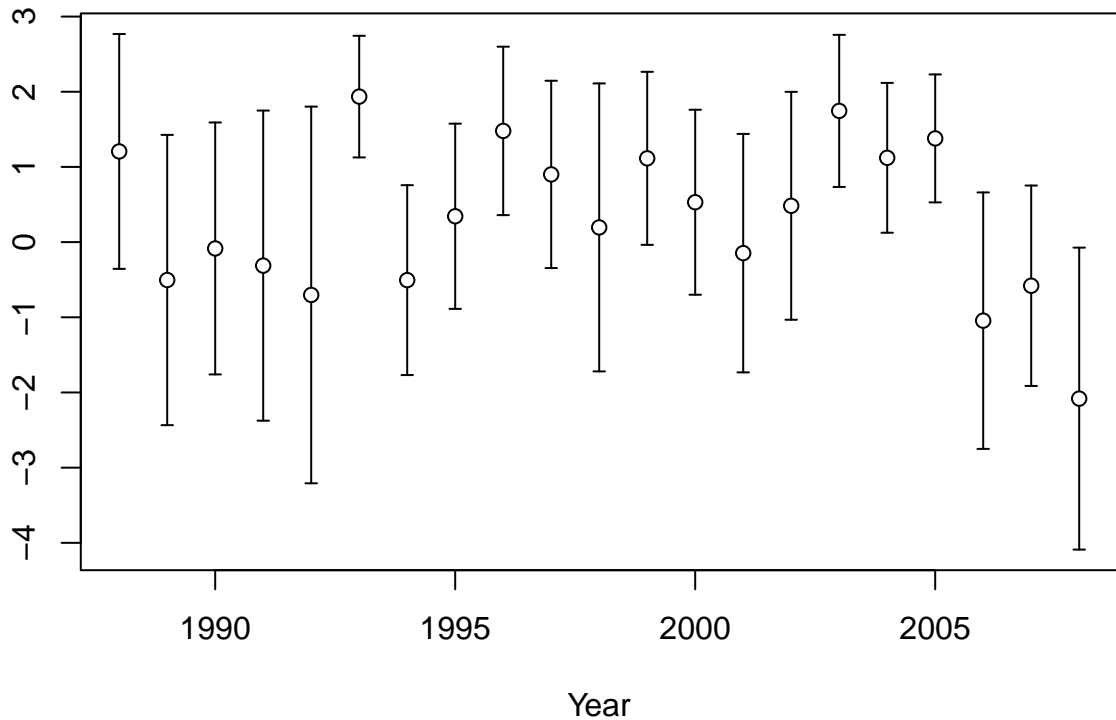




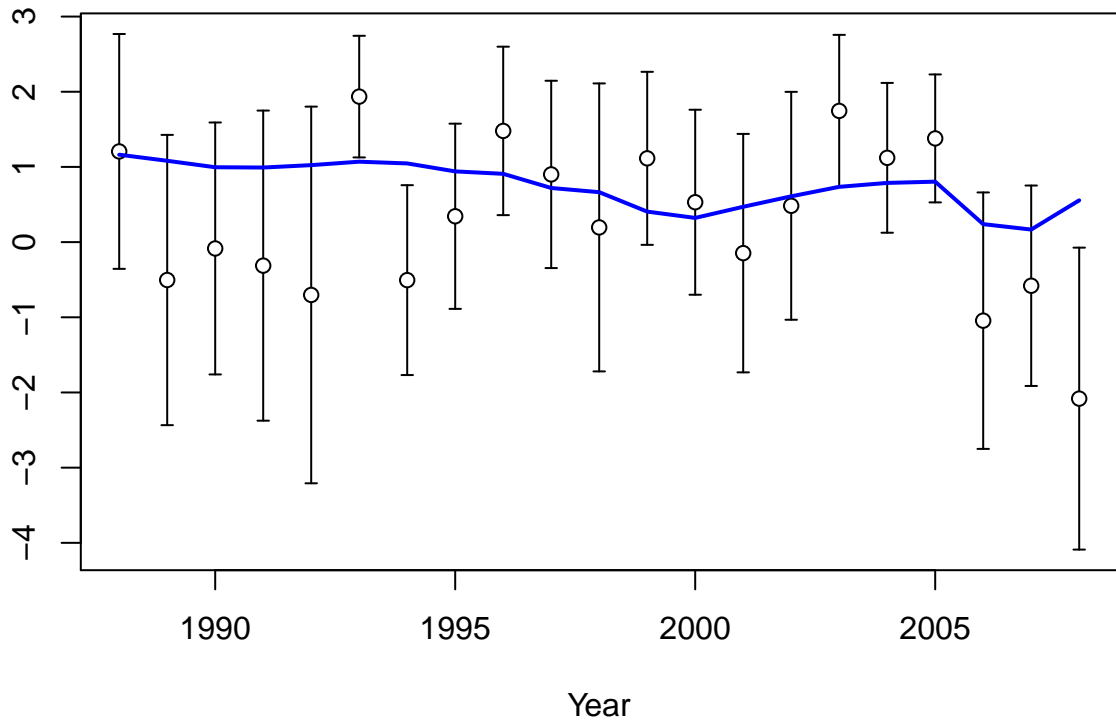


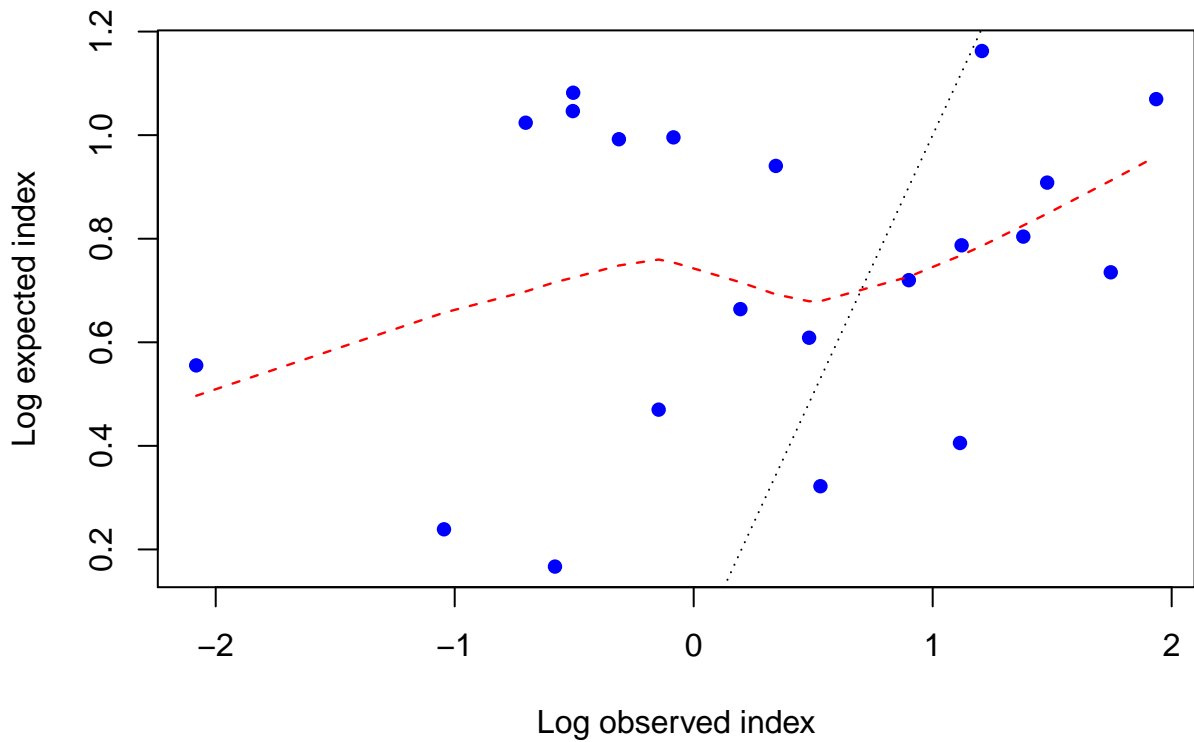


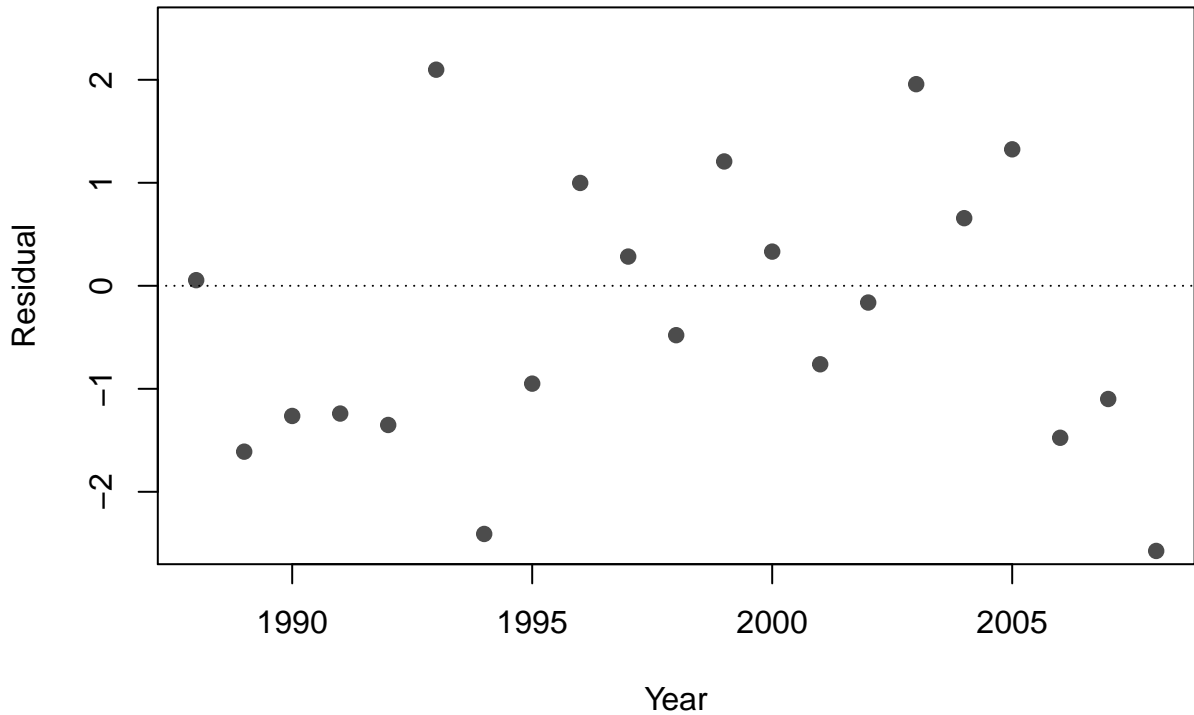
Log index

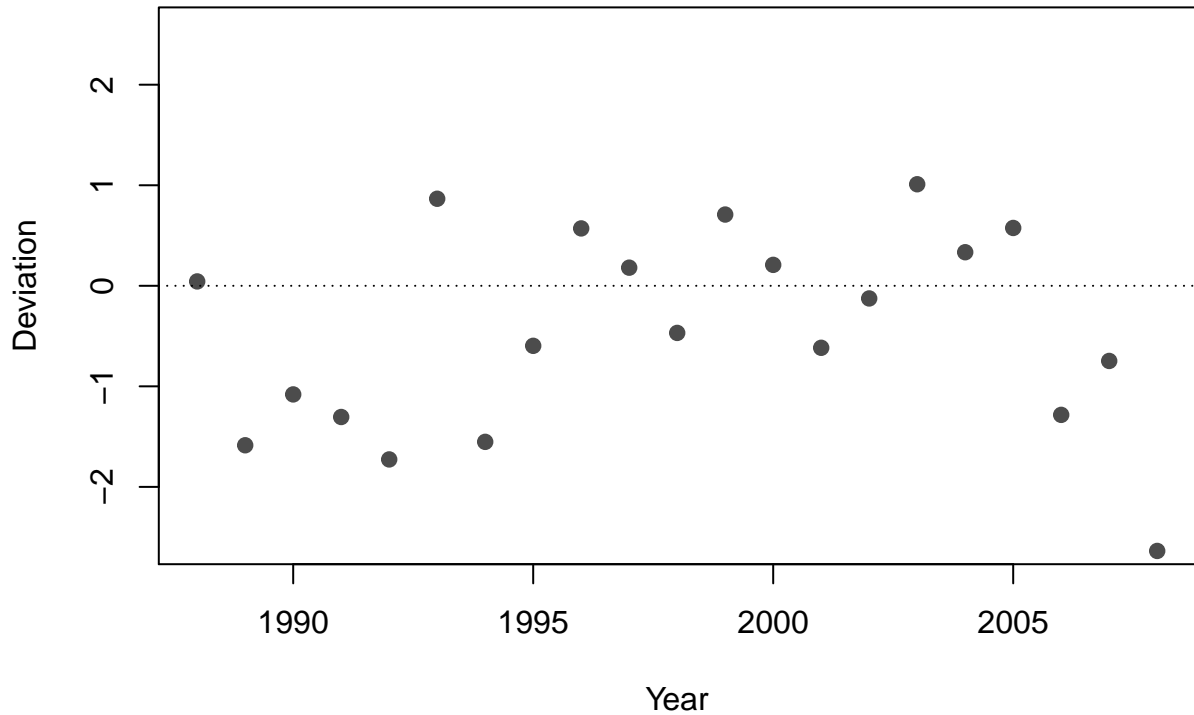


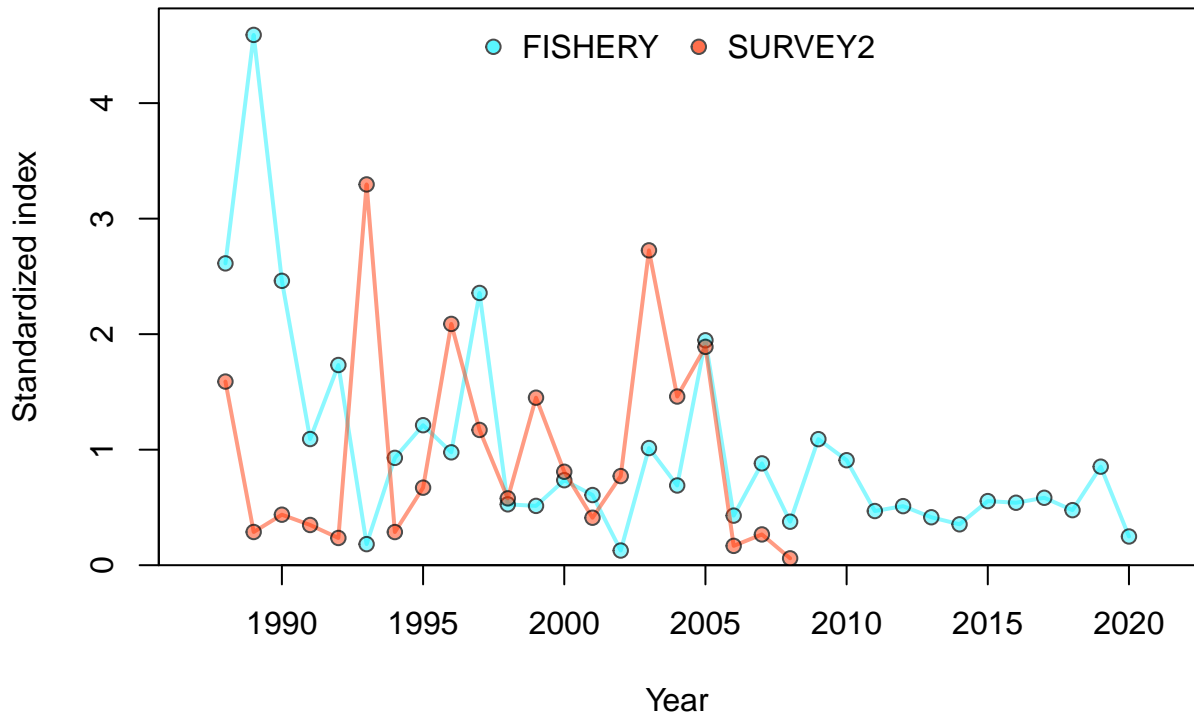
Log index

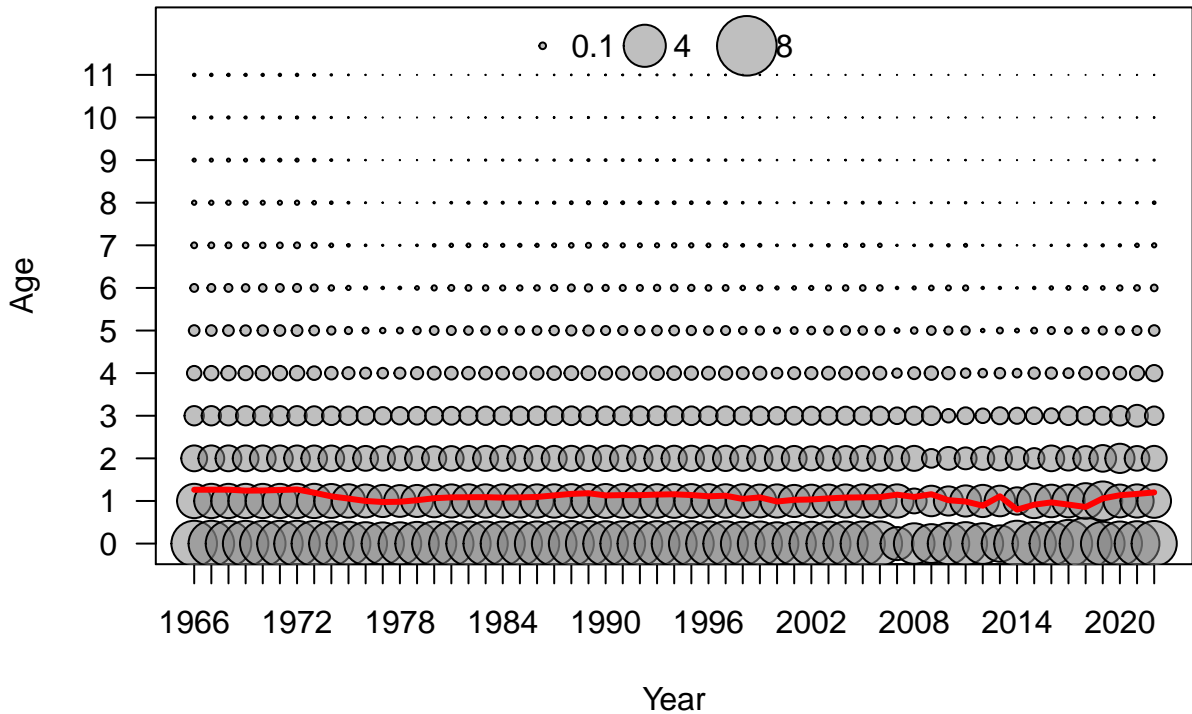




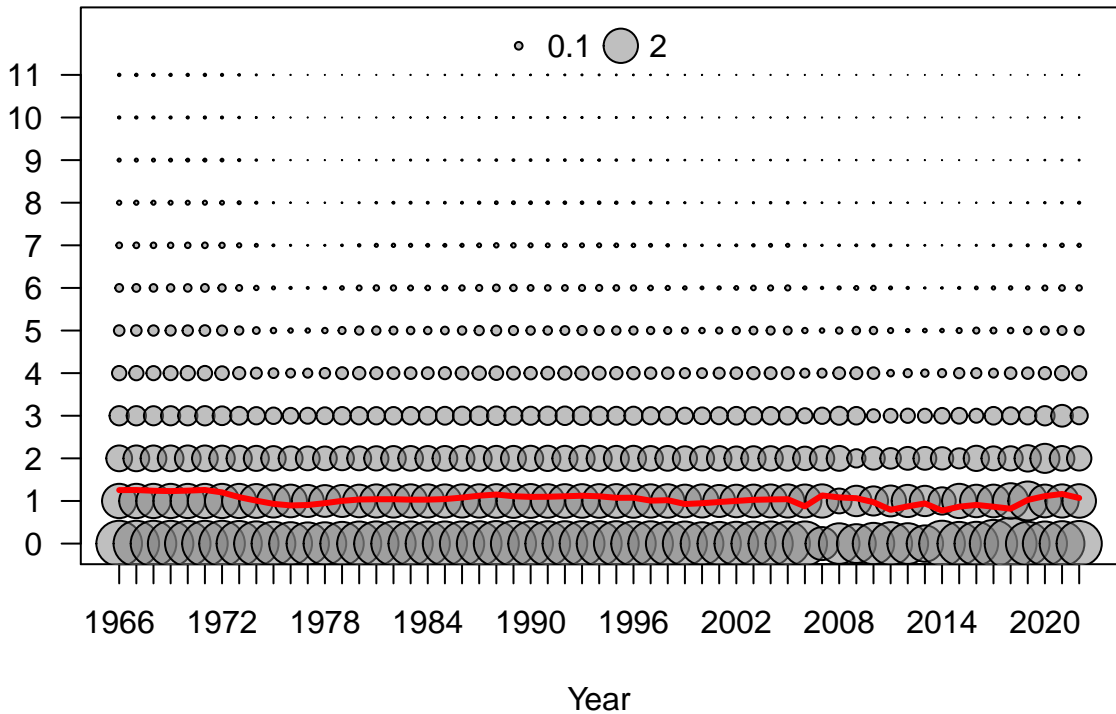


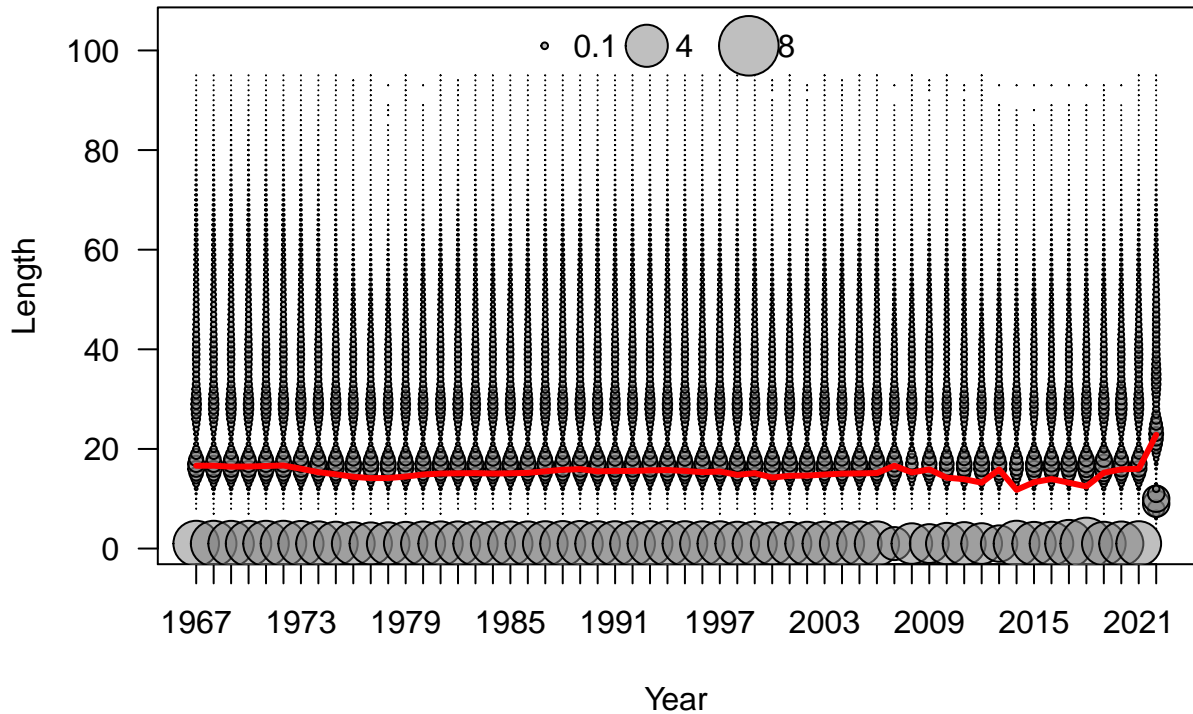


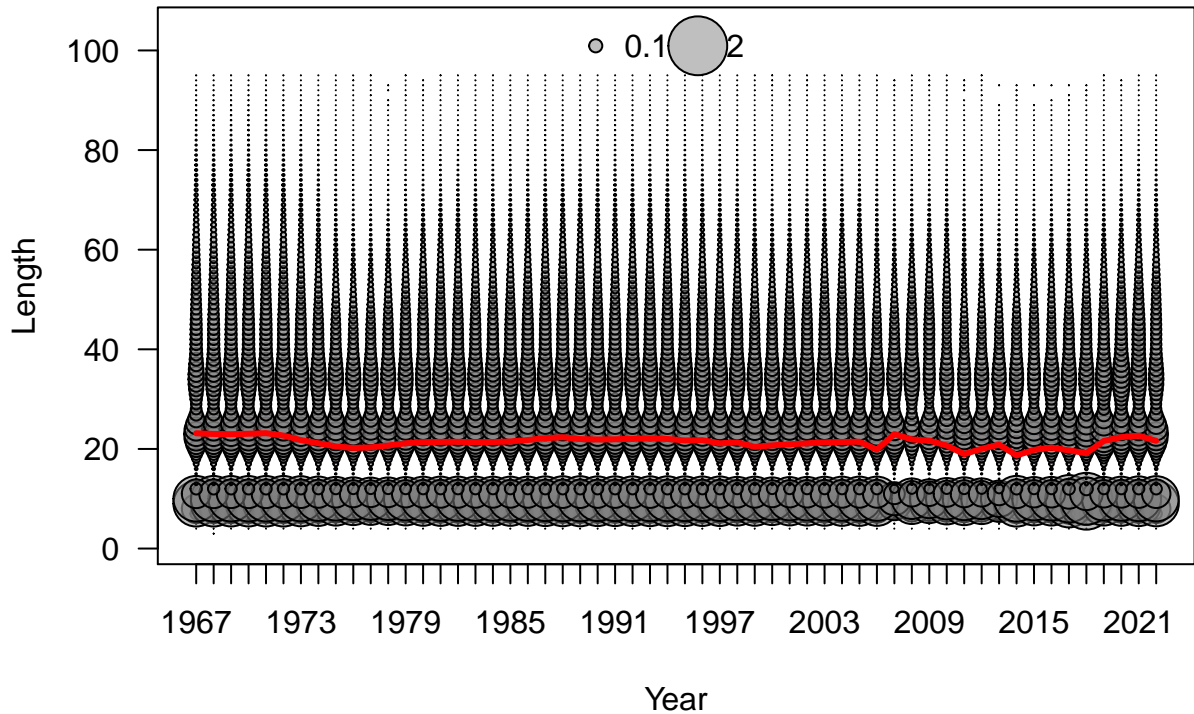




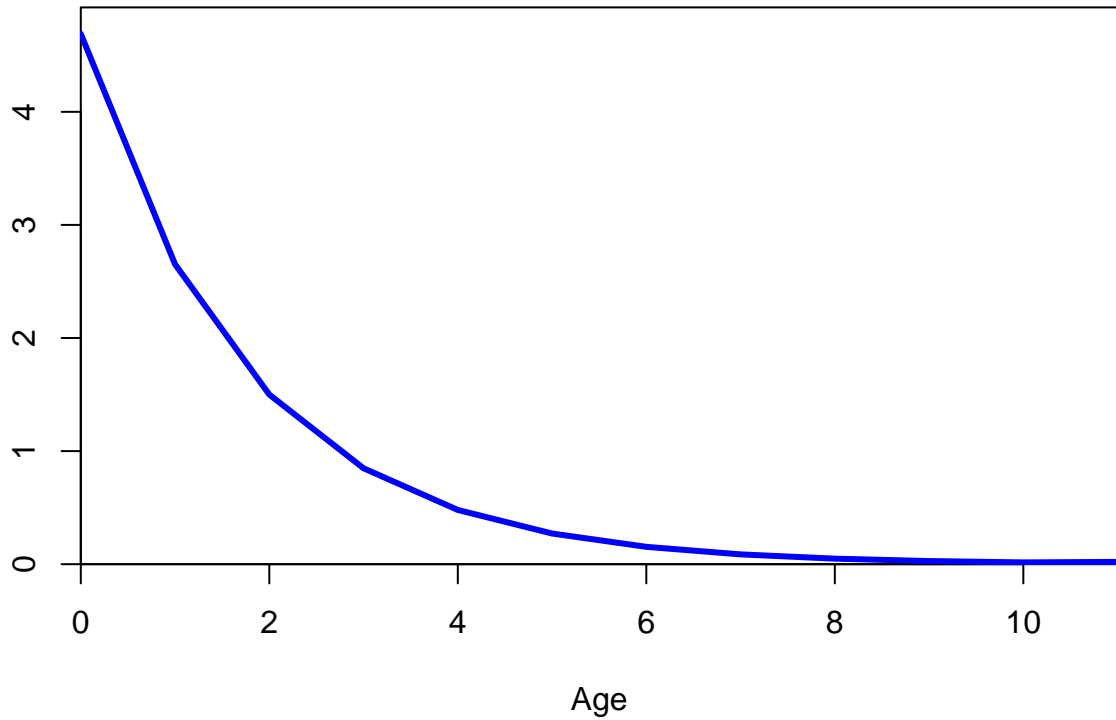
Age





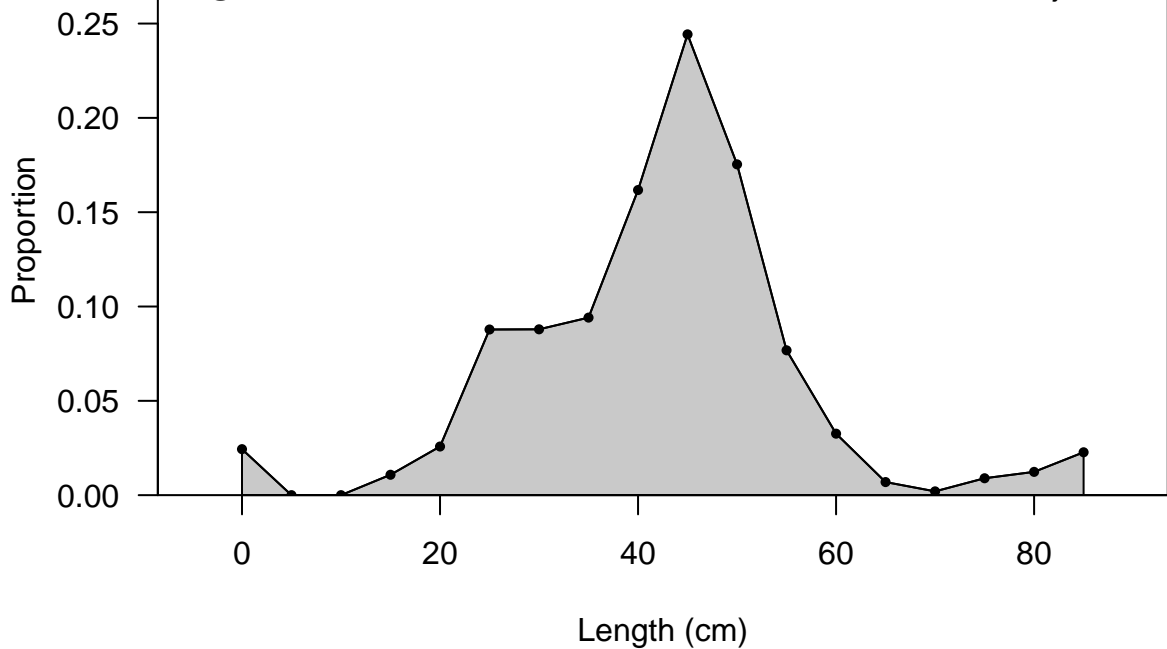


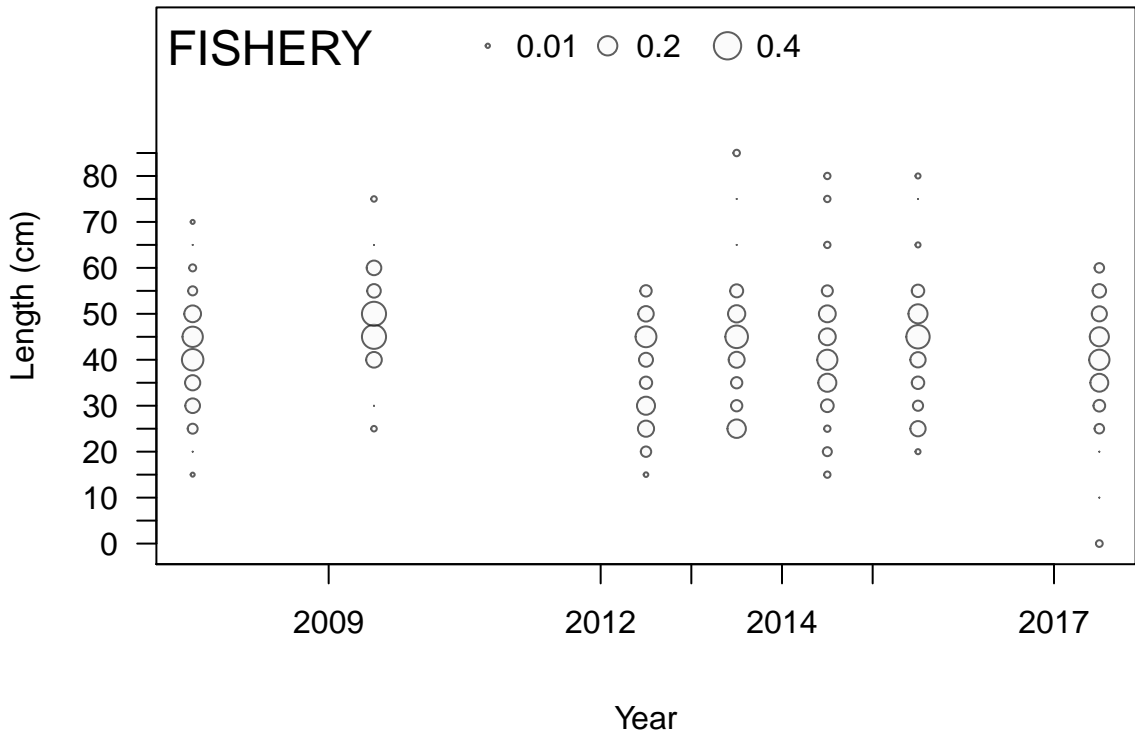
Numbers at age at equilibrium



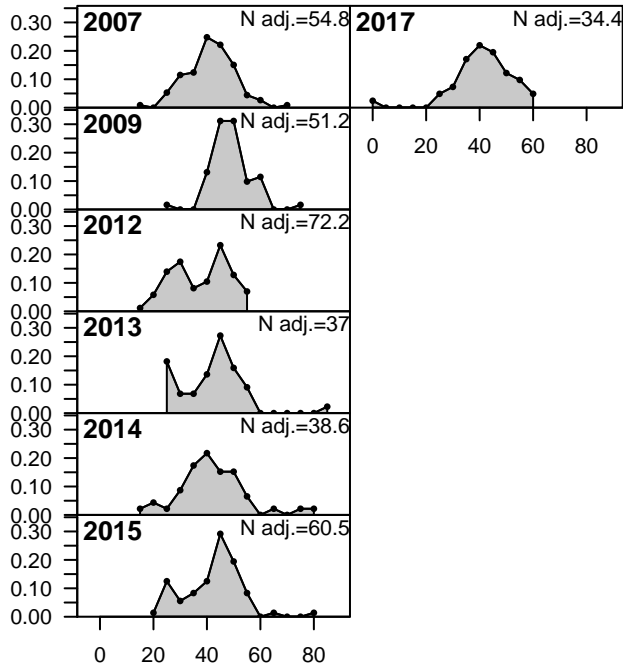
FISHERY

Sum of N adj.=348.8

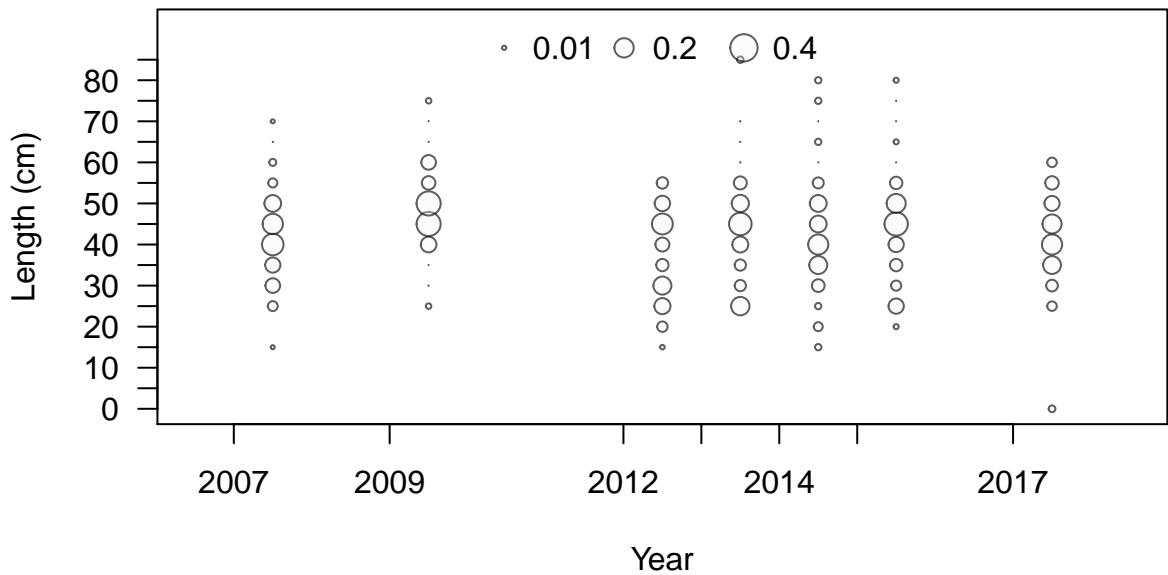




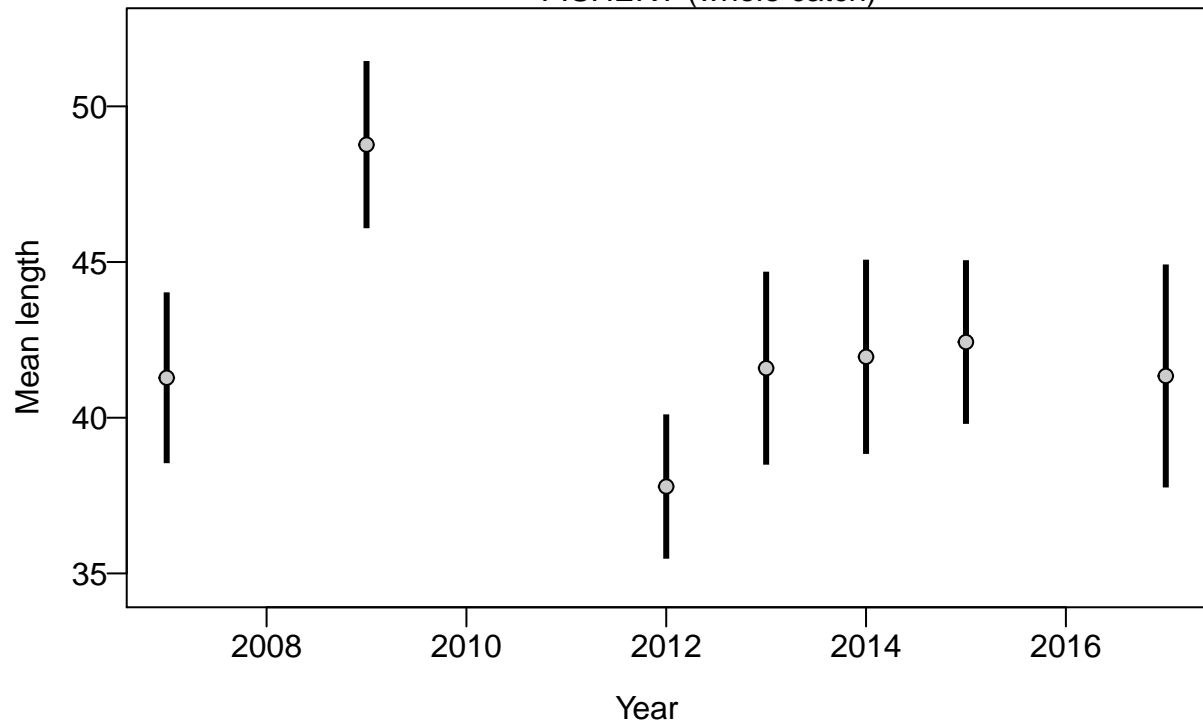
Proportion



Length (cm)

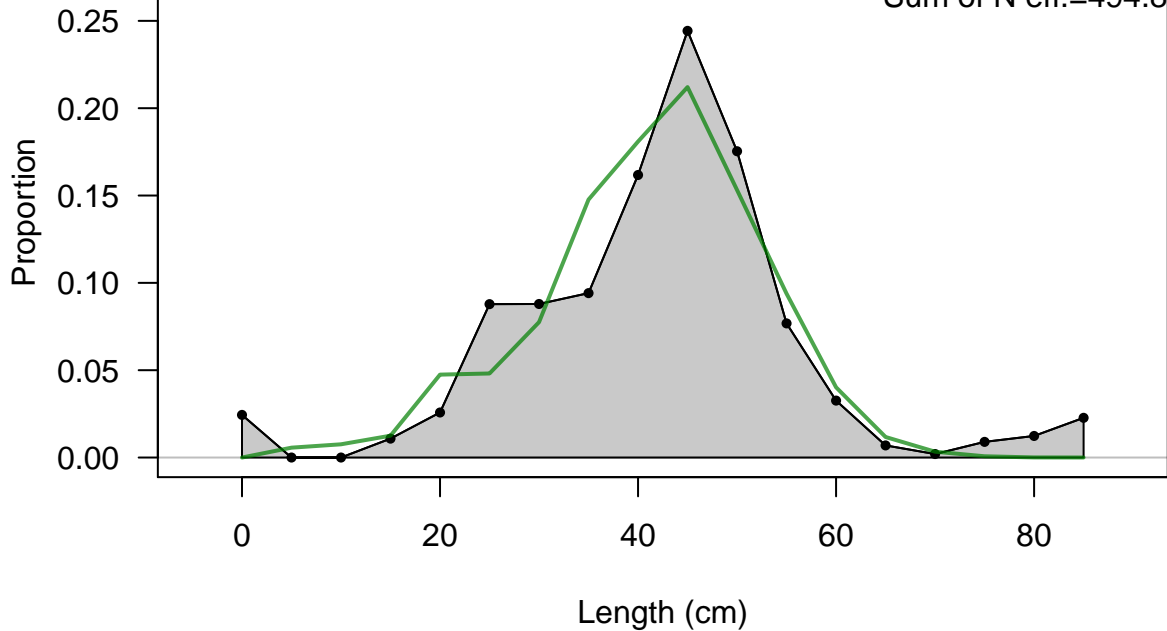


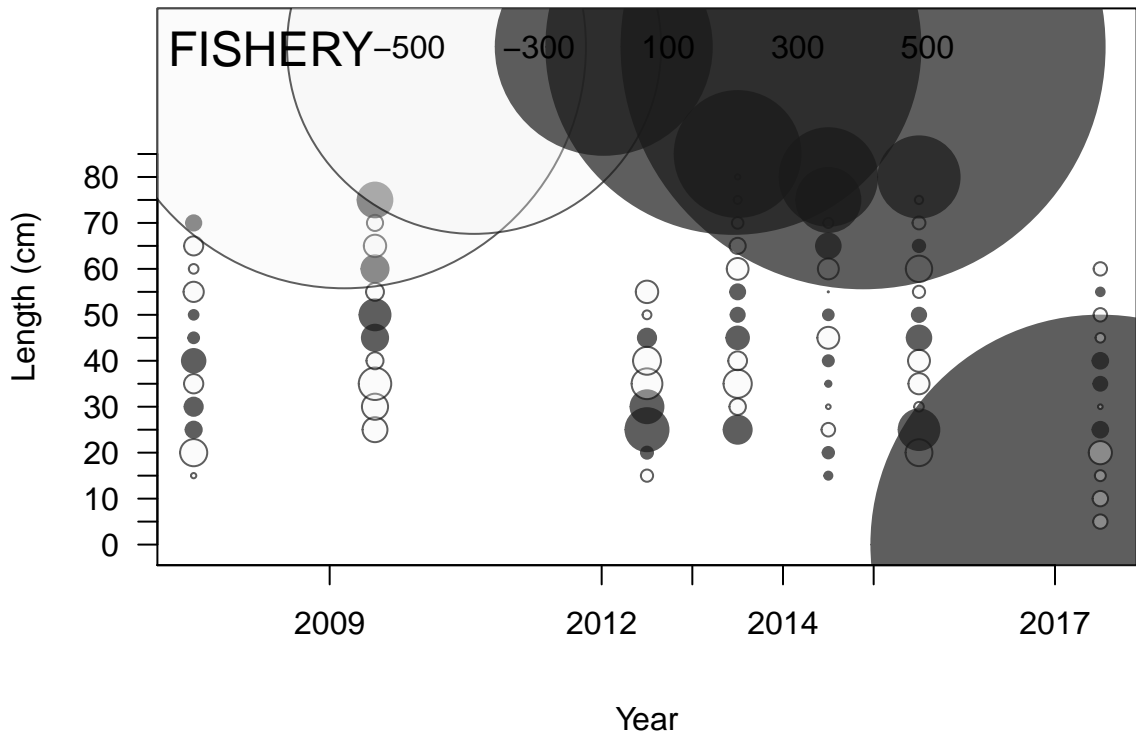
FISHERY (whole catch)



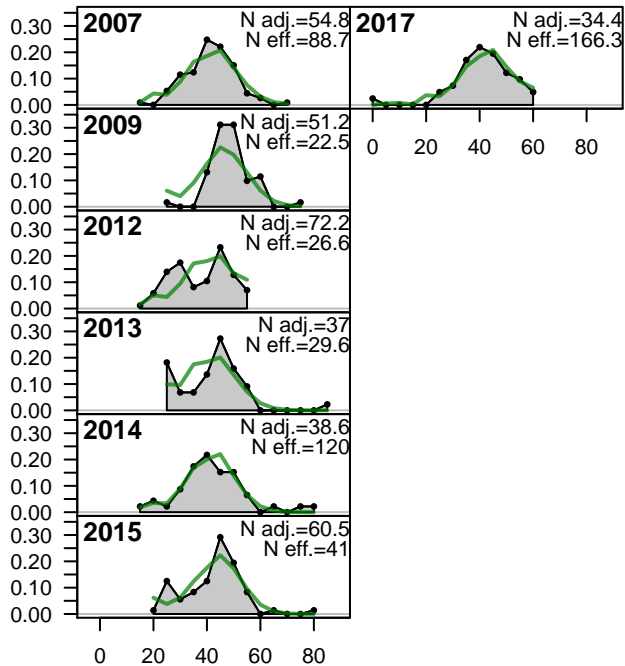
FISHERY

Sum of N adj.=348.8
Sum of N eff.=494.8

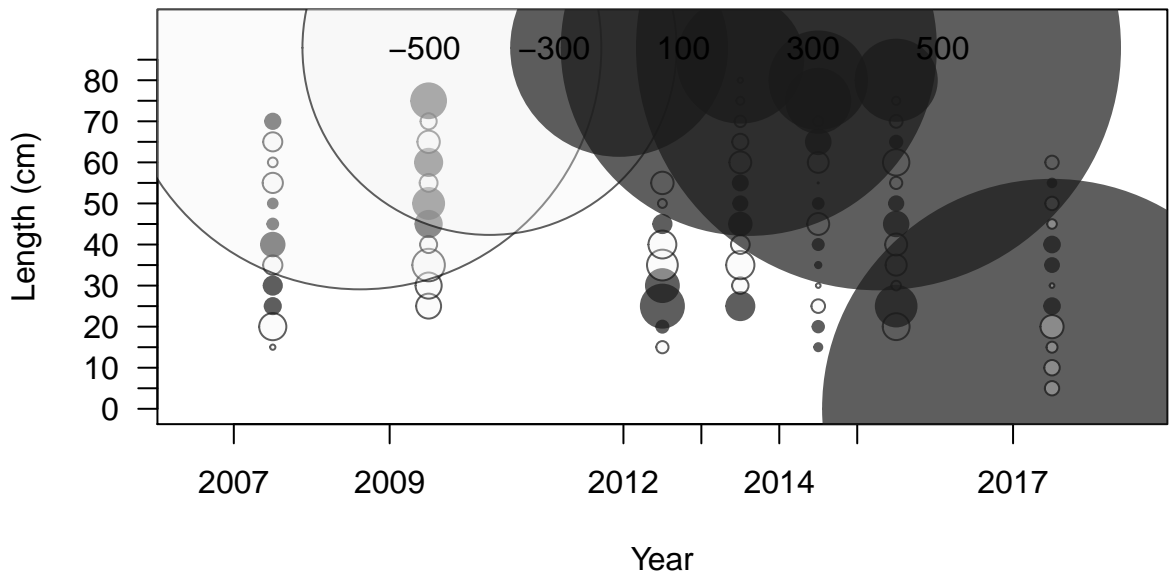




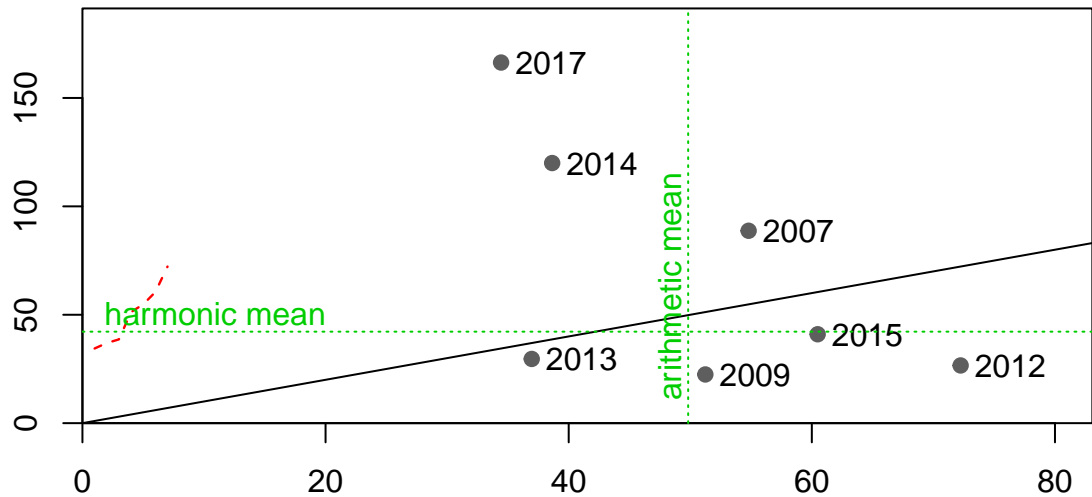
Proportion



Length (cm)

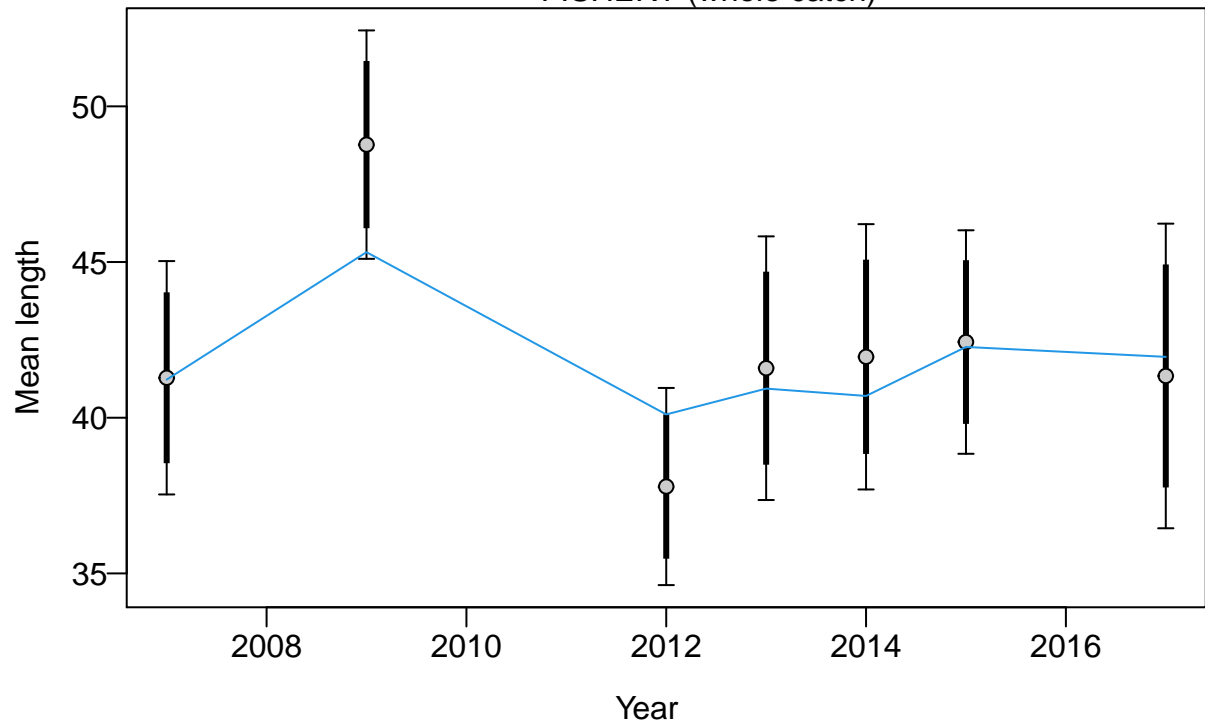


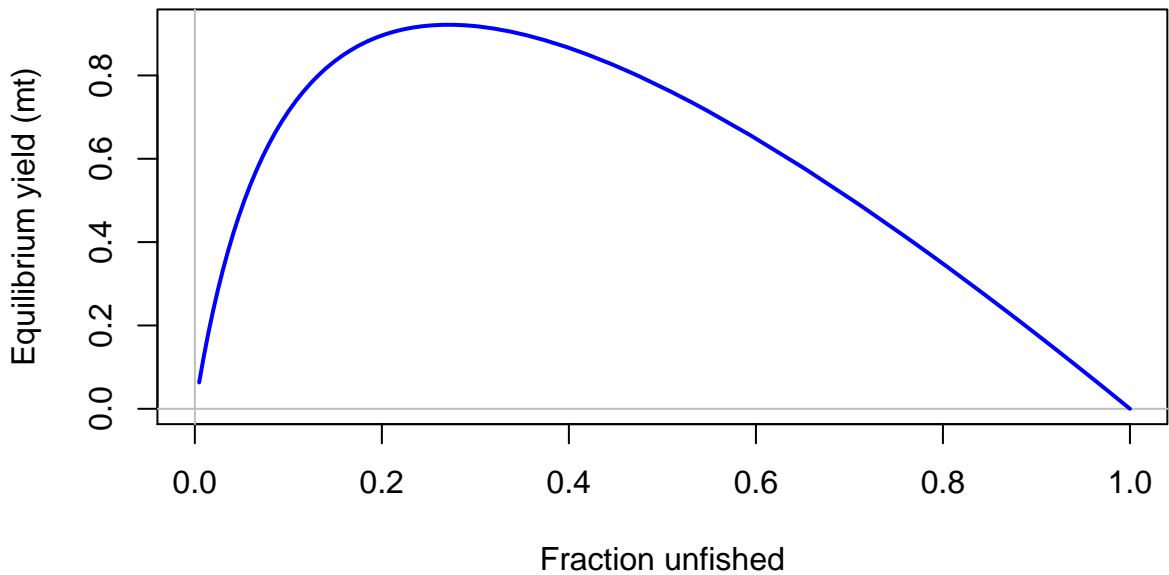
Effective sample size

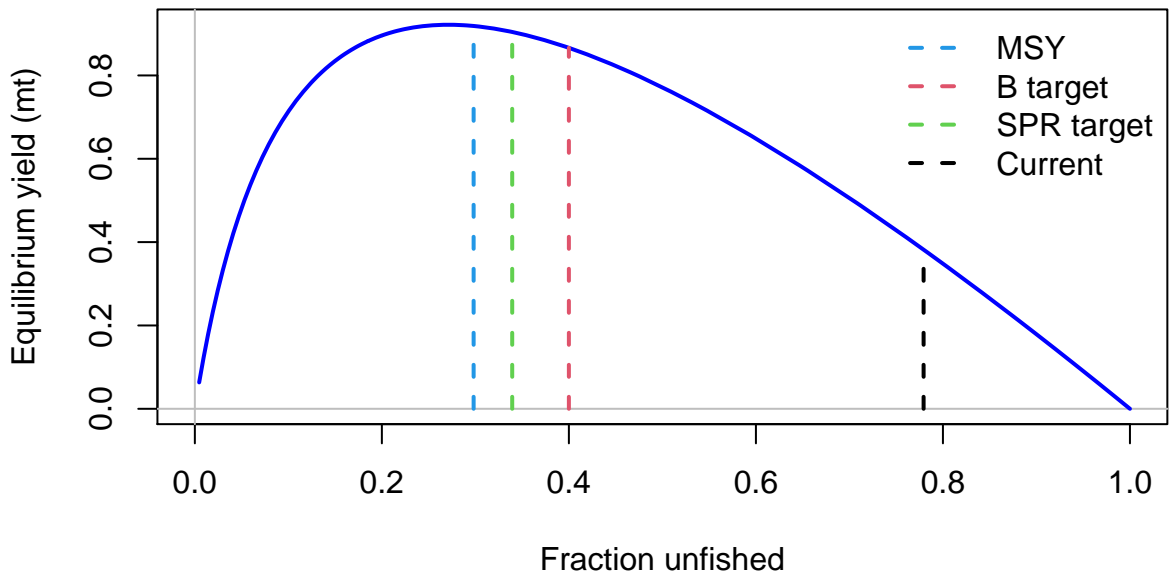


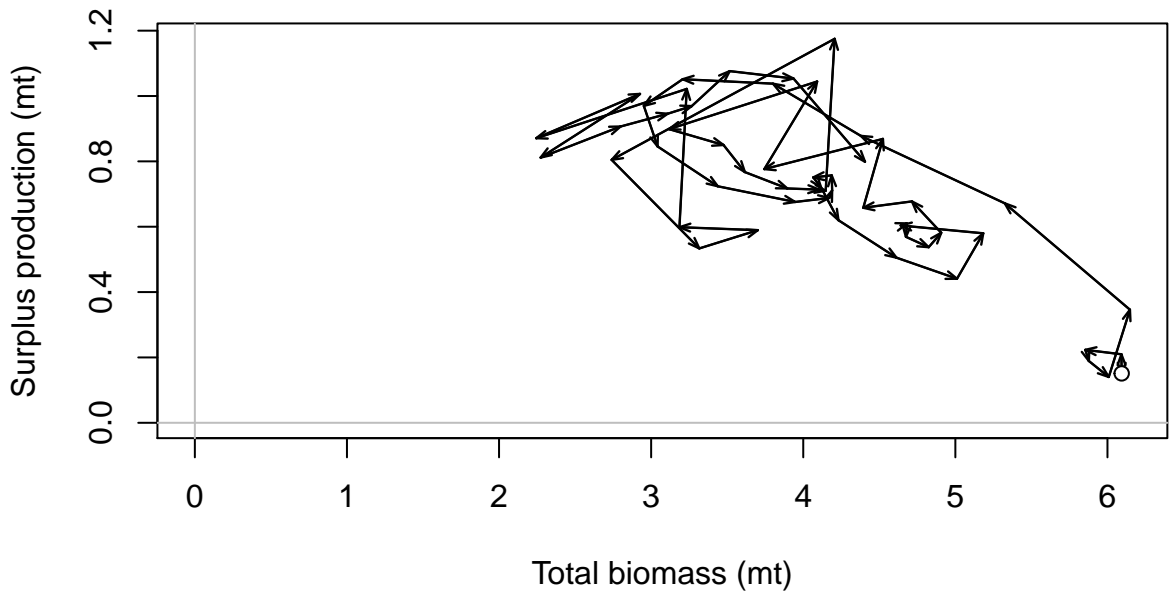
Observed sample size

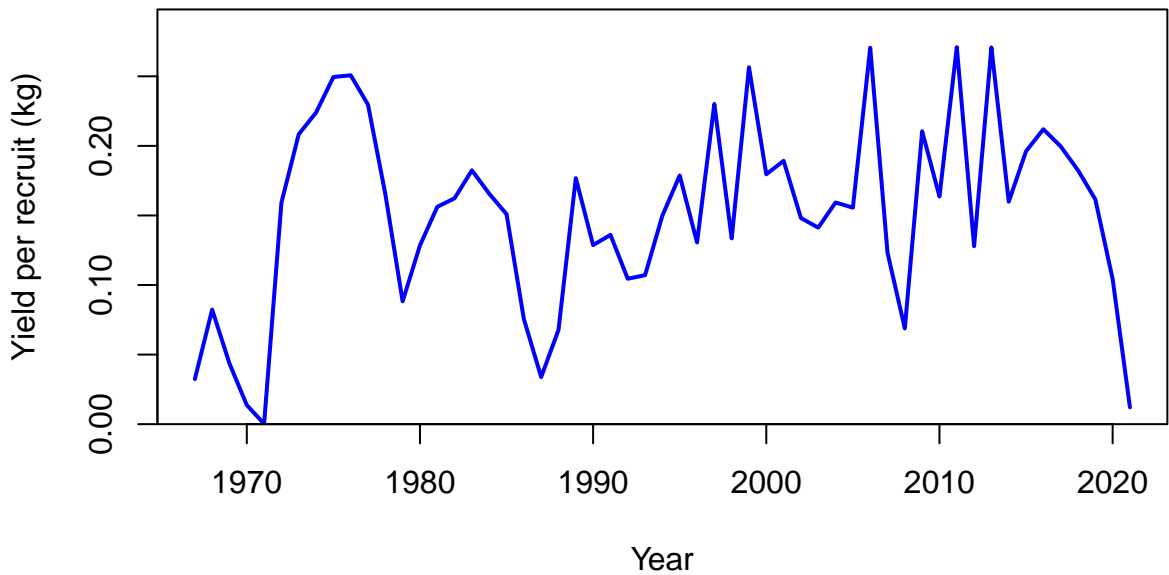
FISHERY (whole catch)

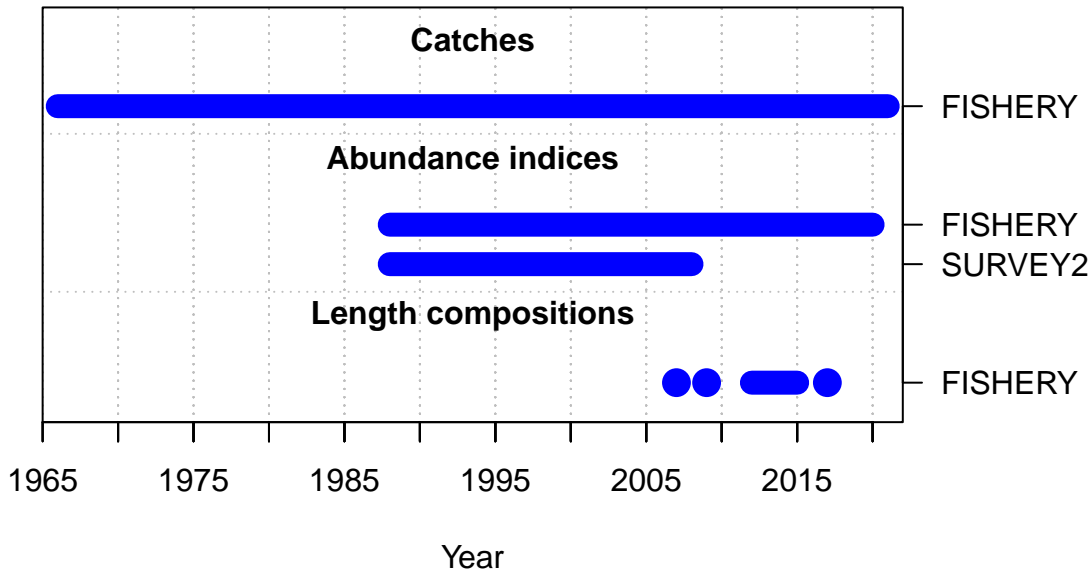


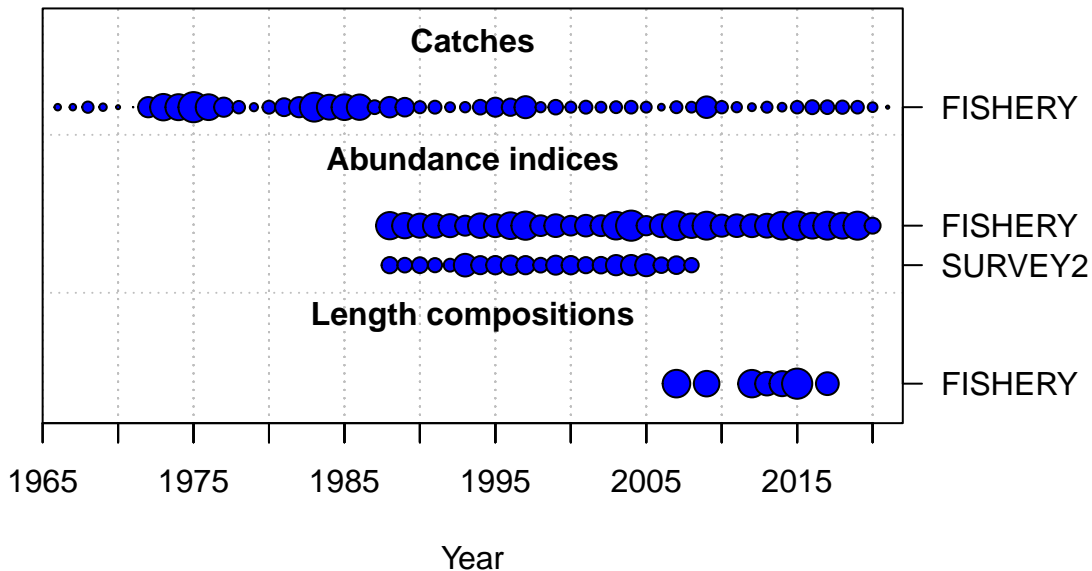




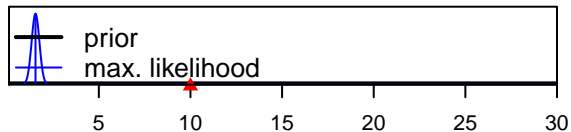




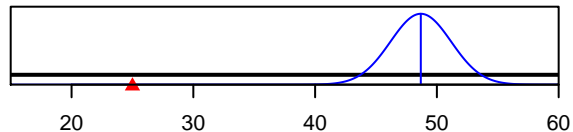




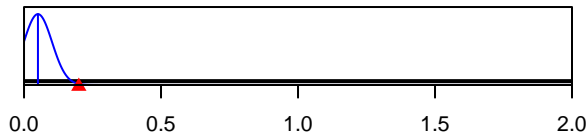
SR_LN(R0)



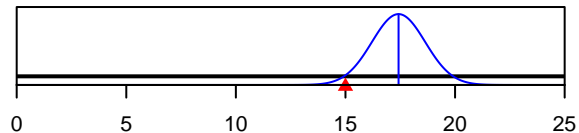
Size_inflection_FISHERY(1)



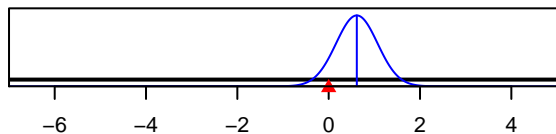
InitF_seas_1flt_1FISHERY



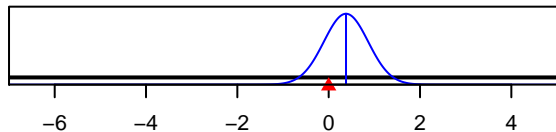
Size_95%width_FISHERY(1)



LnQ_base_FISHERY(1)



LnQ_base_SURVEY2(2)



Density

Parameter value