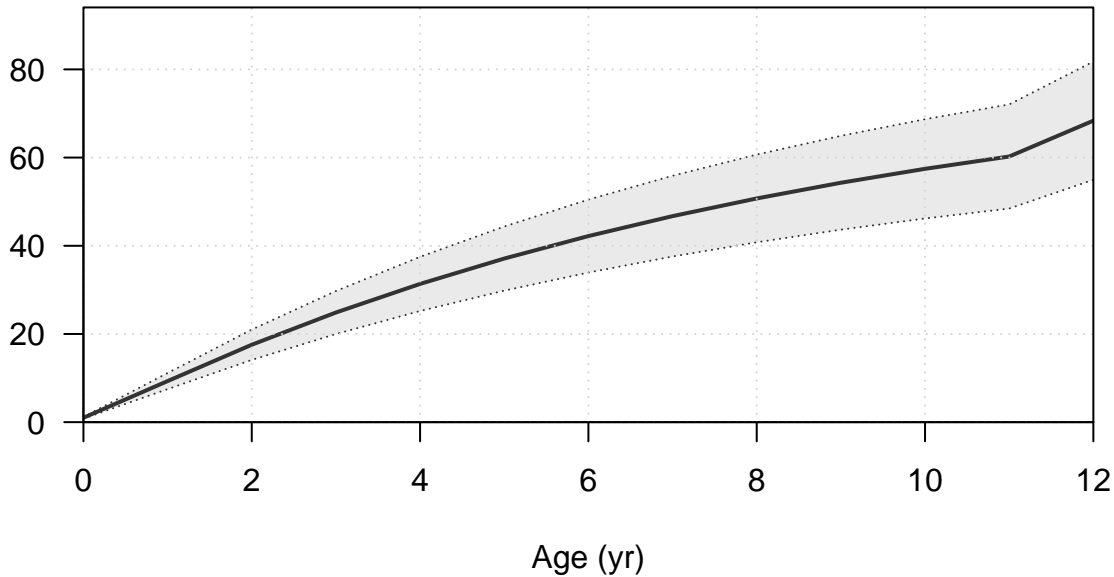
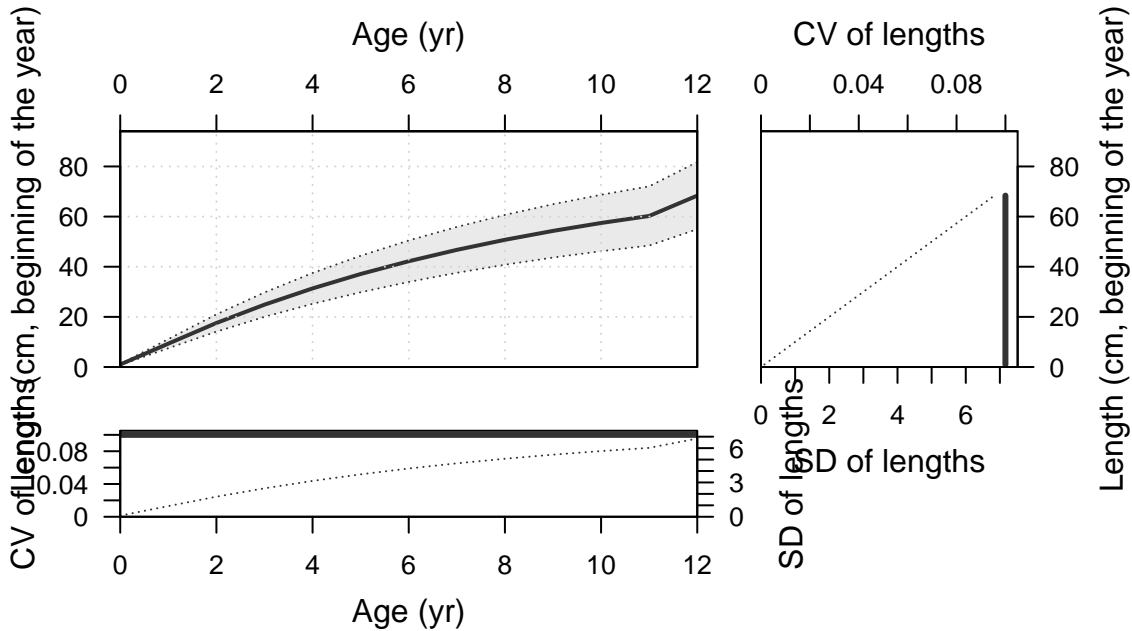
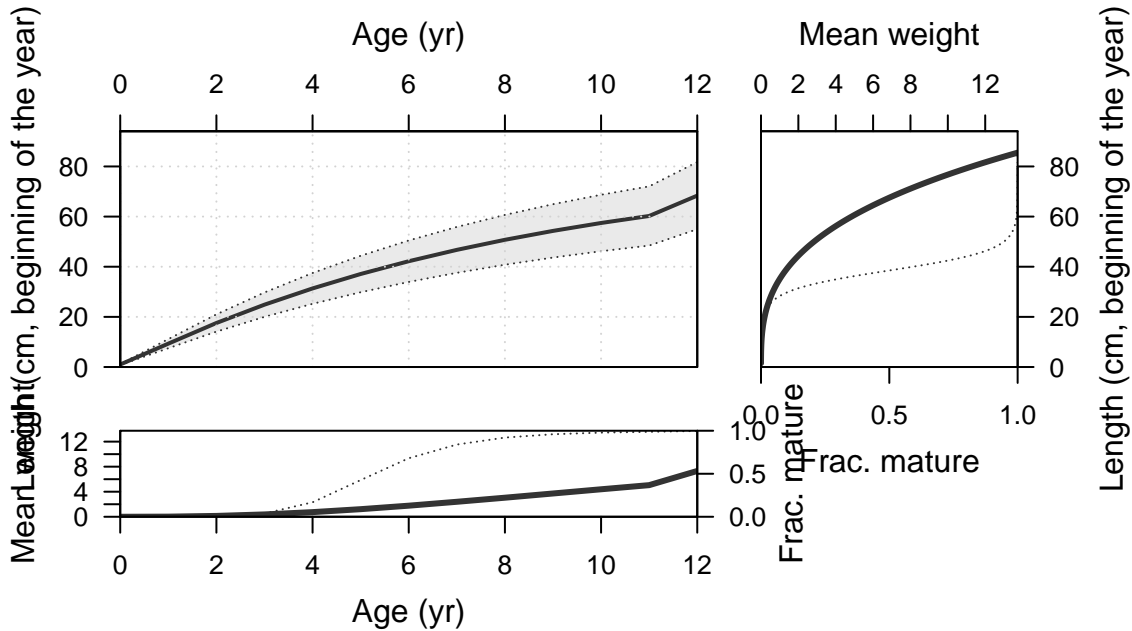


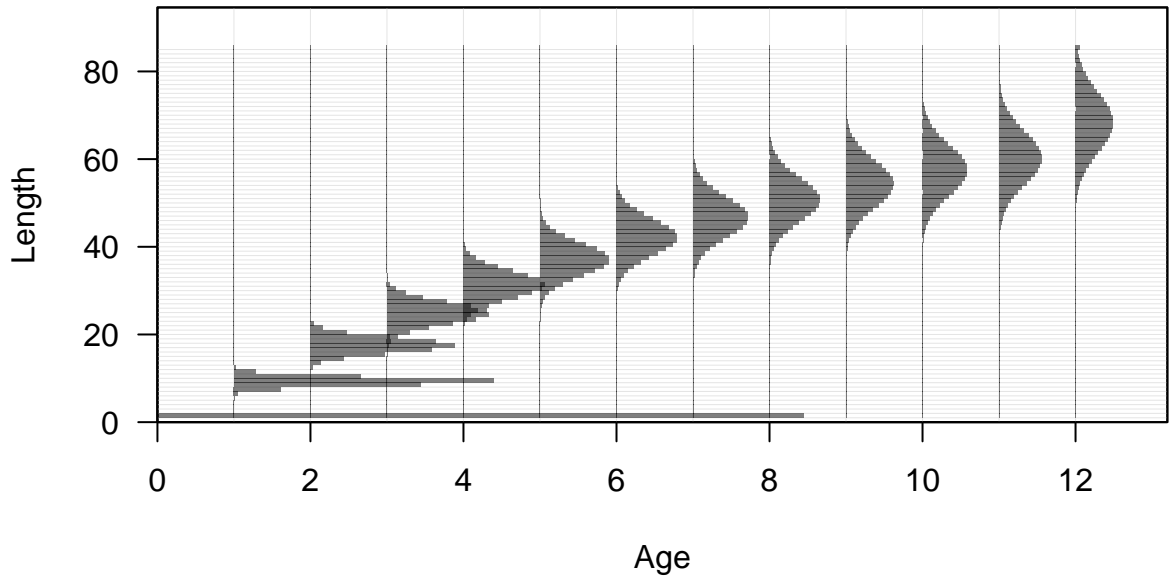
Plots created using the 'r4ss' package in R
Stock Synthesis version: 3.30.19.0
StartTime: Tue Jul 12 16:42:03 2022
Data_File: data.ss
Control_File: control.ss

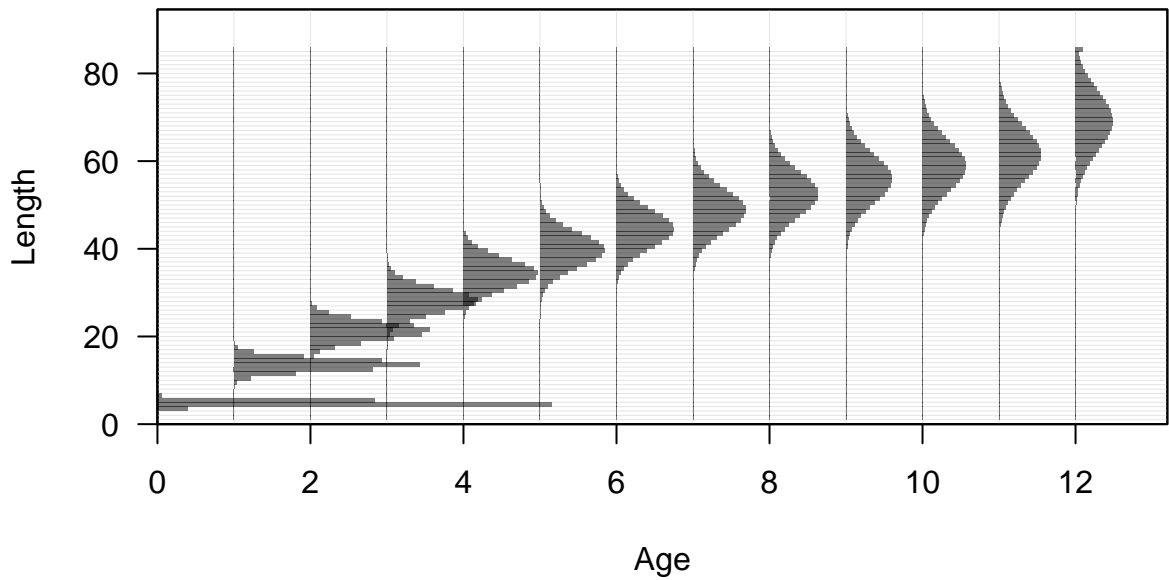
Length (cm, beginning of the year)

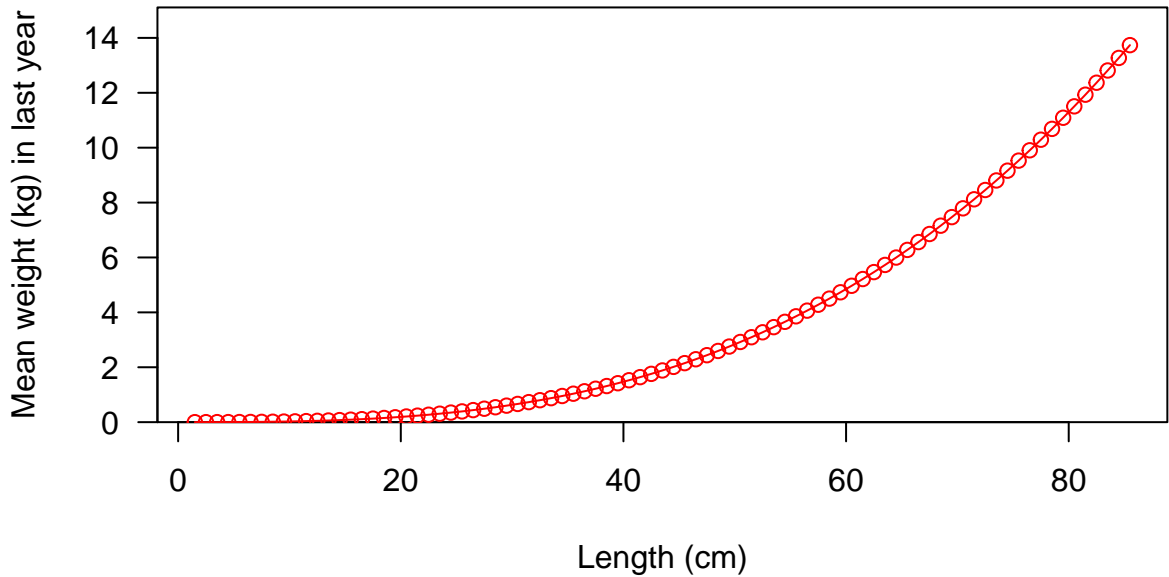


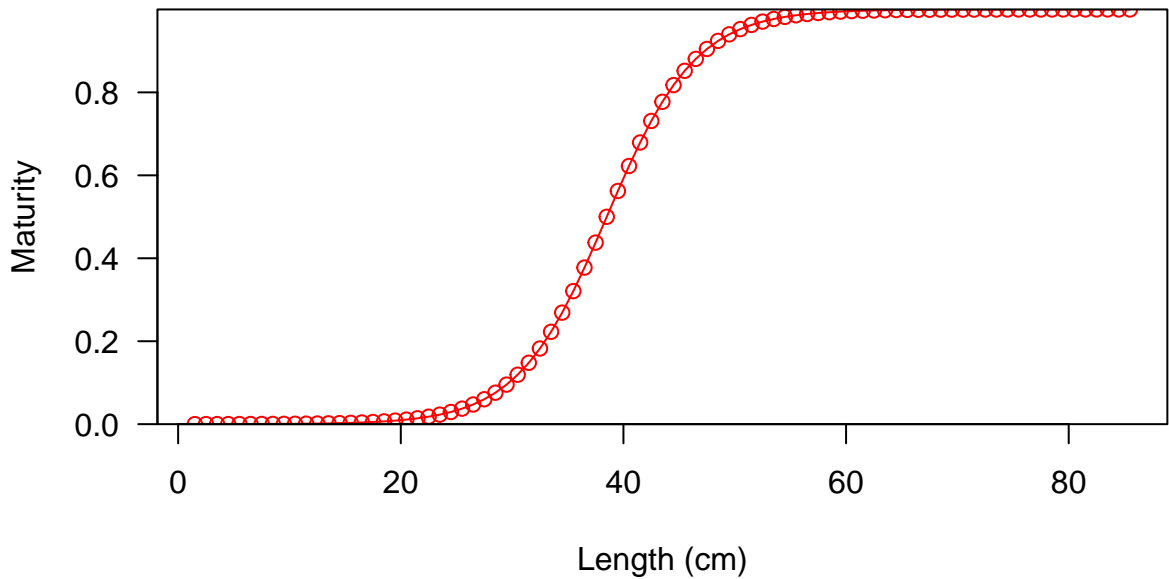


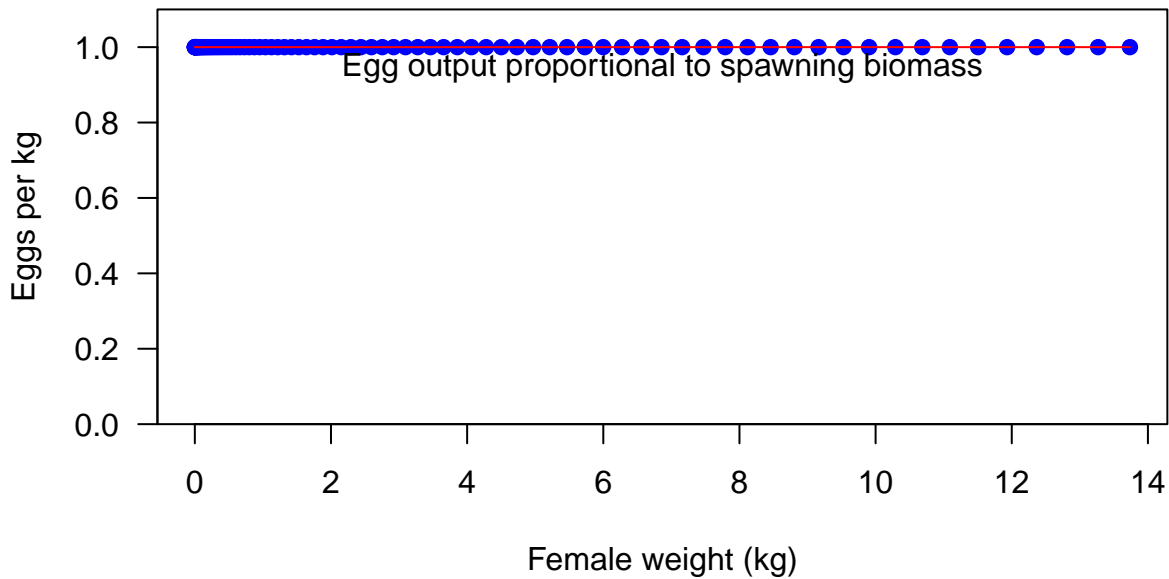




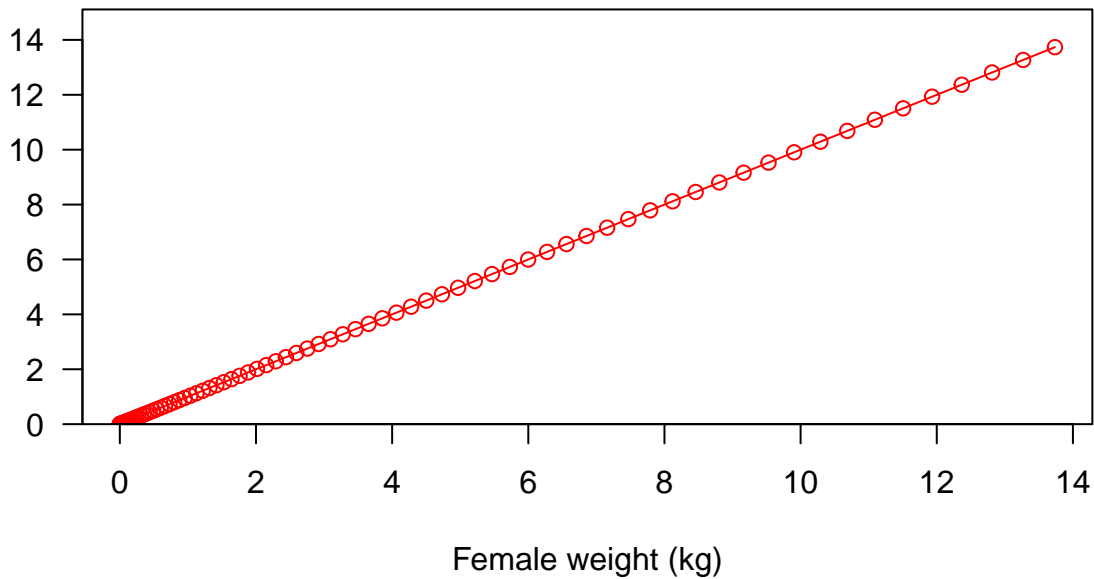




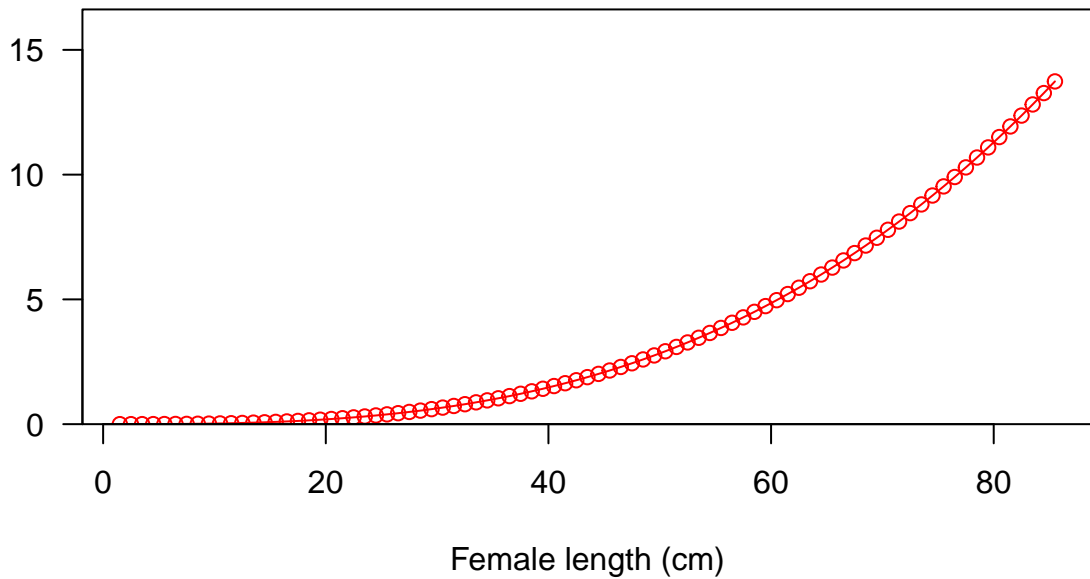




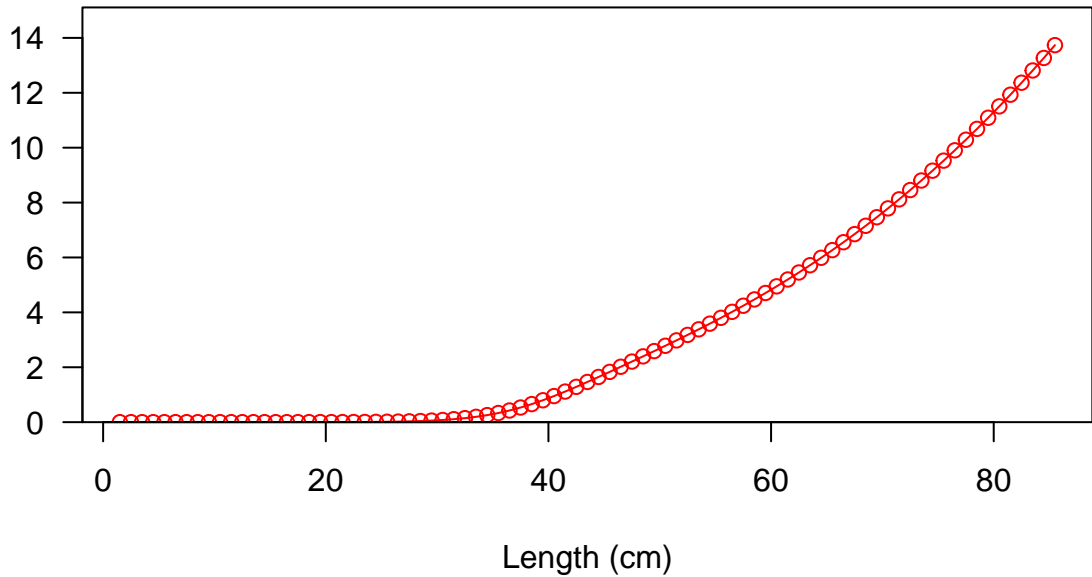
Fecundity

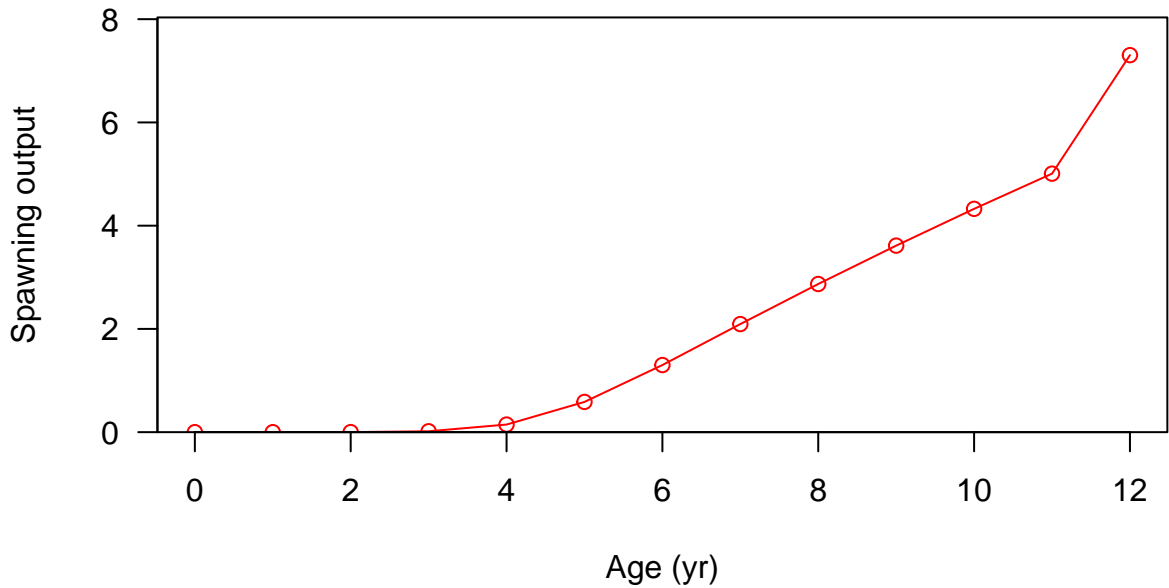


Fecundity

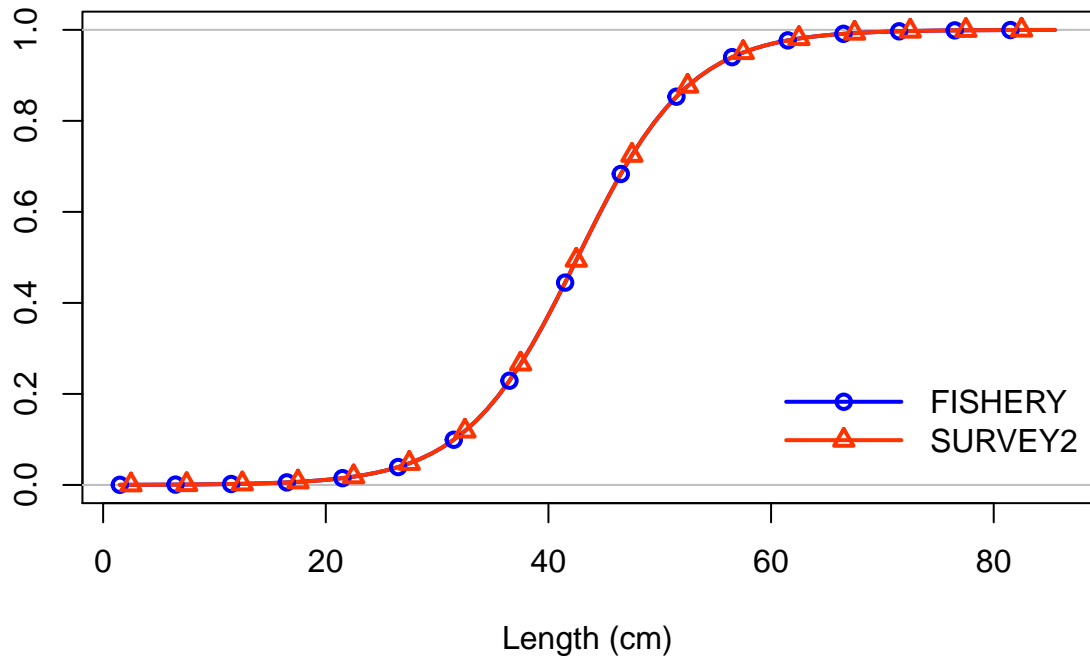


Spawning output

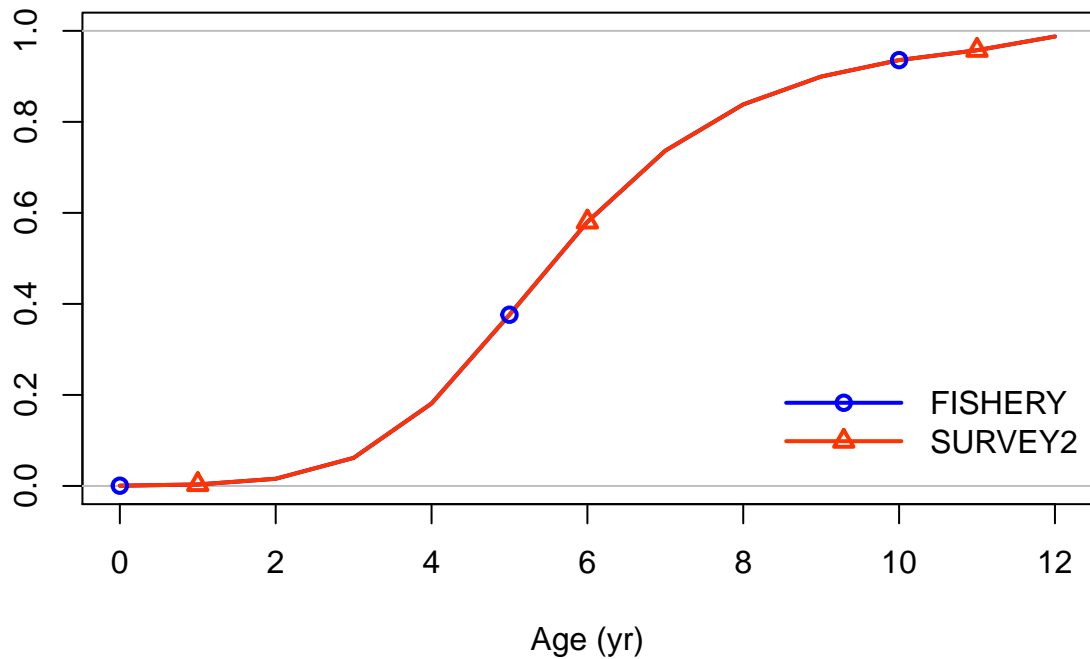




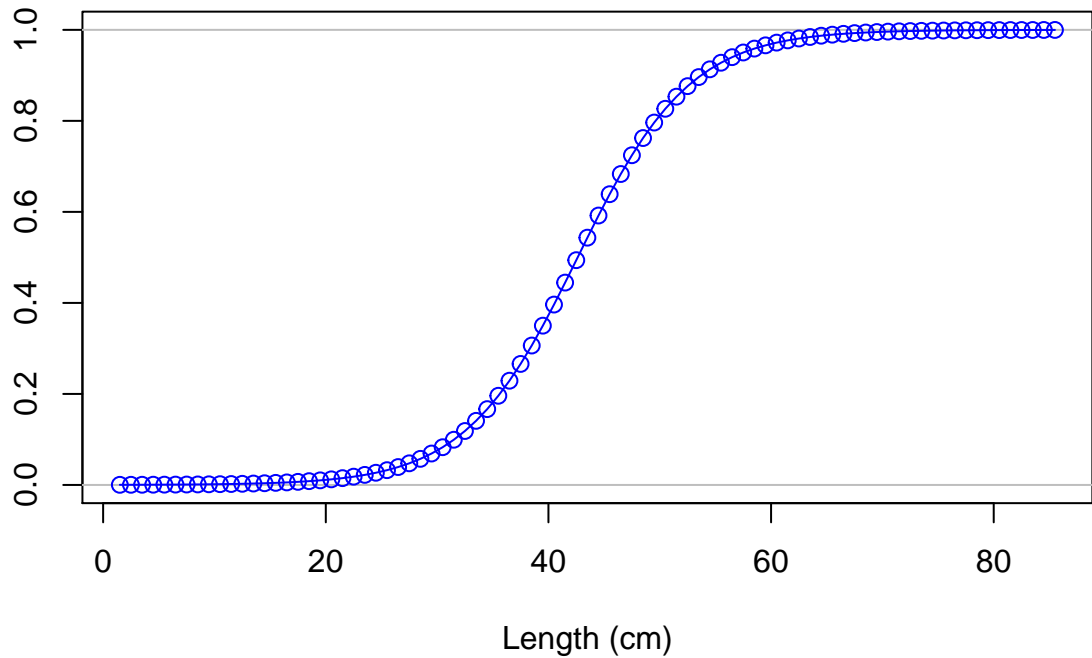
Selectivity



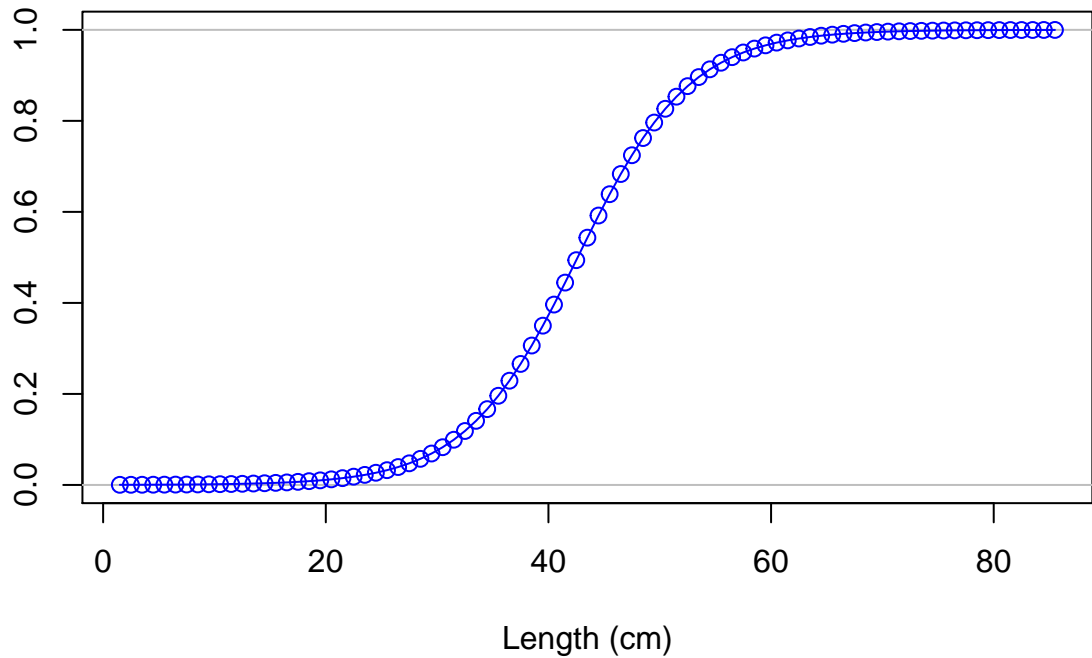
Selectivity

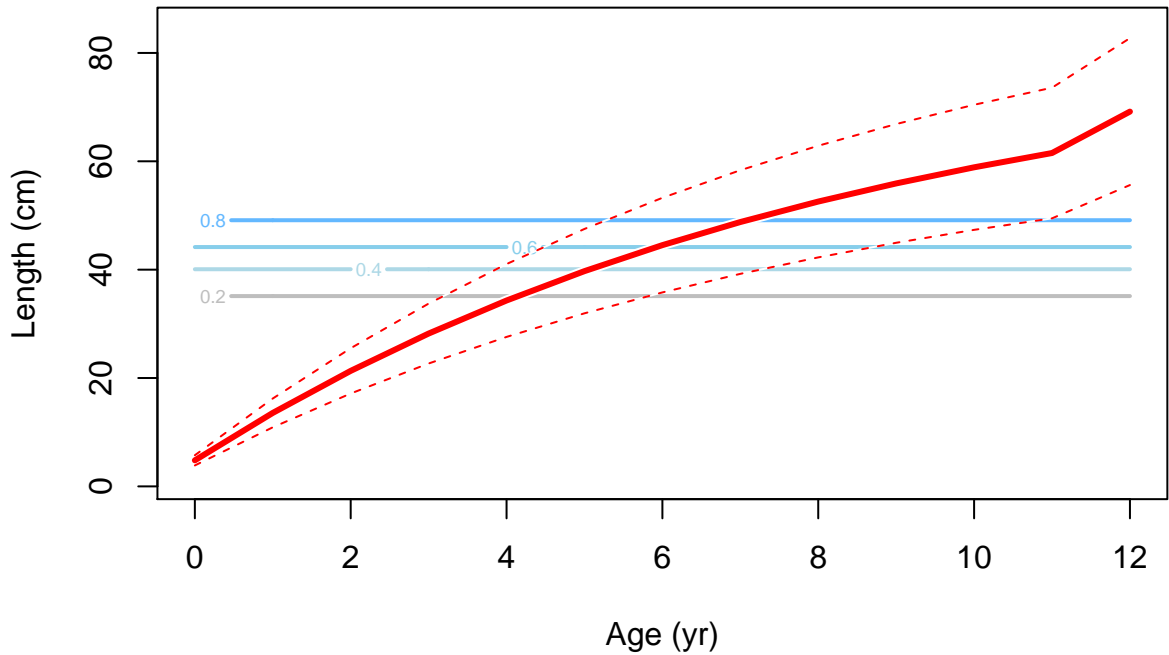


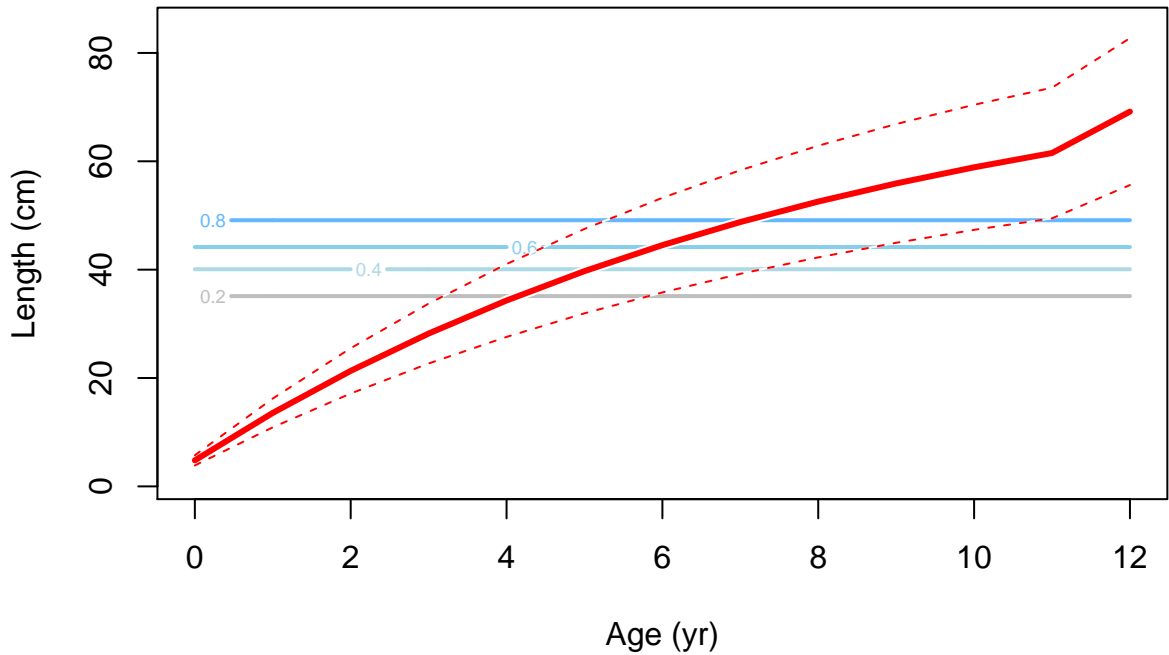
Selectivity



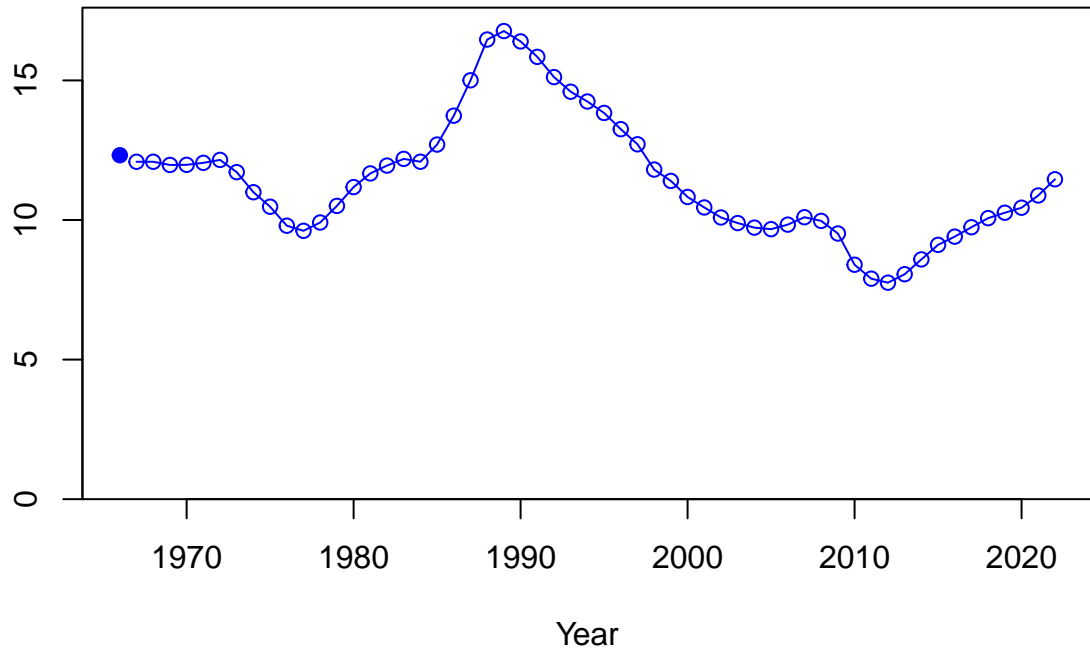
Selectivity

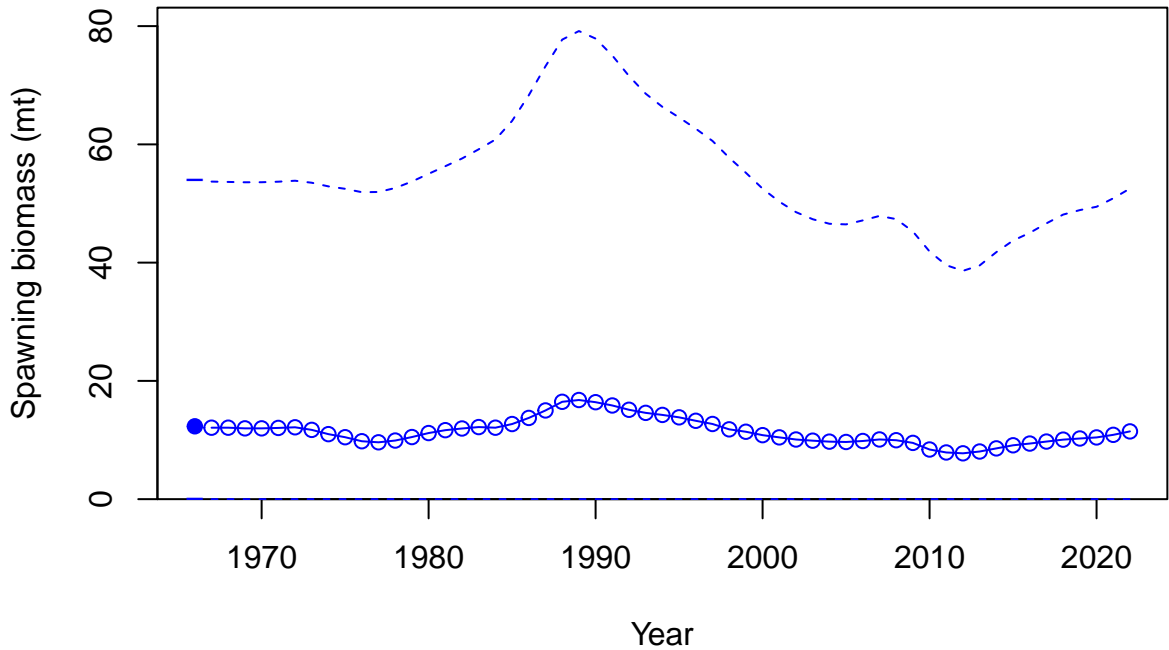




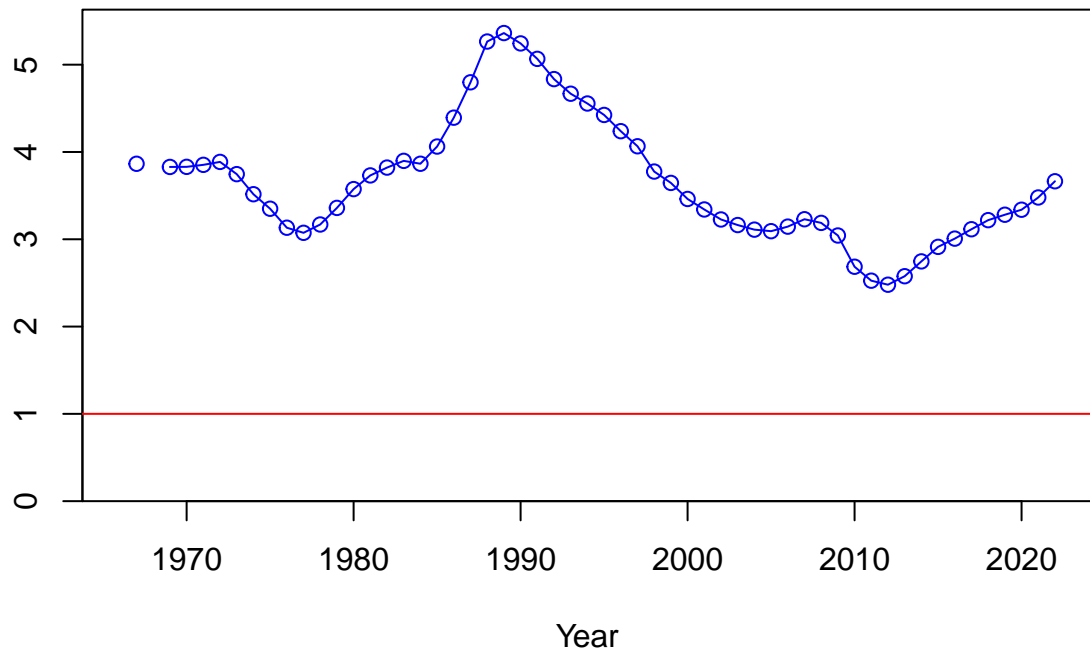


Spawning biomass (mt)

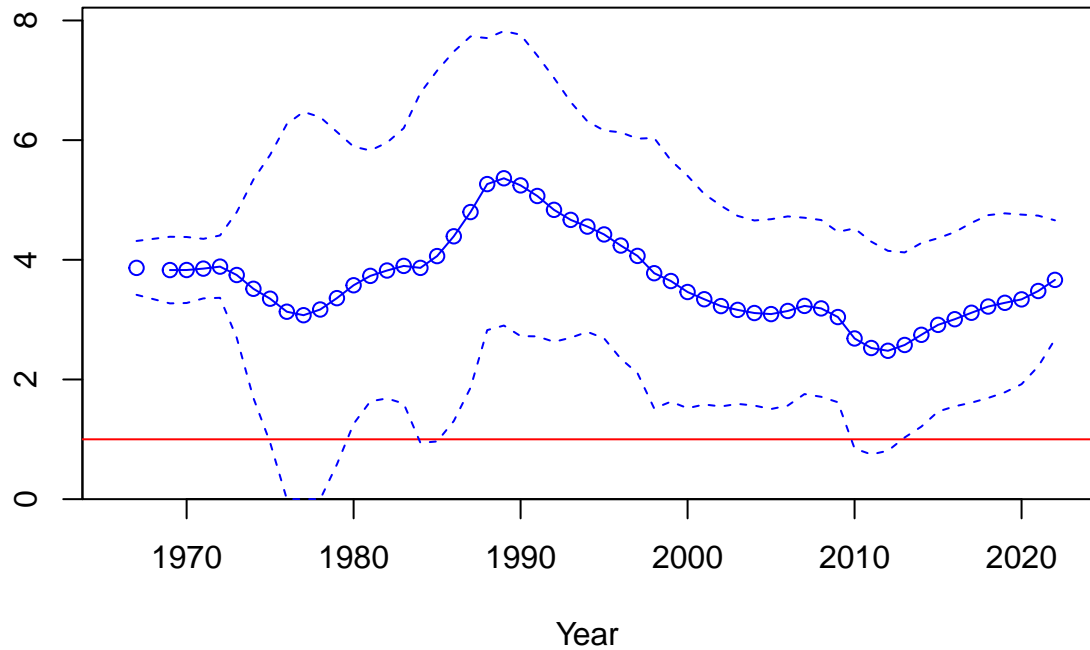


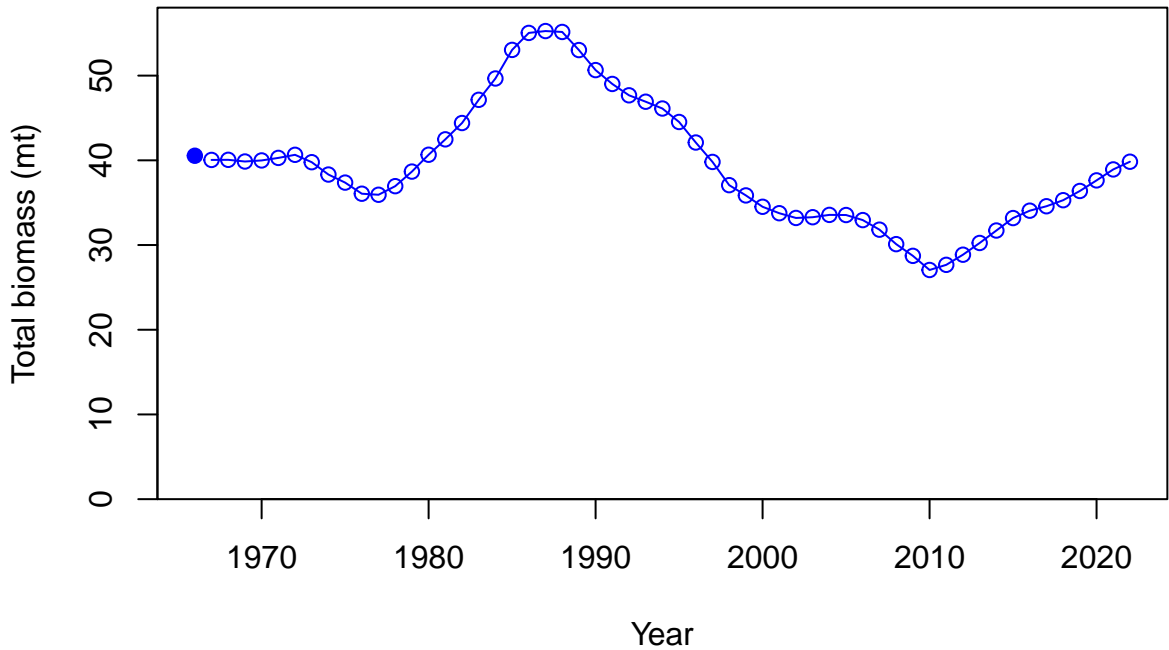


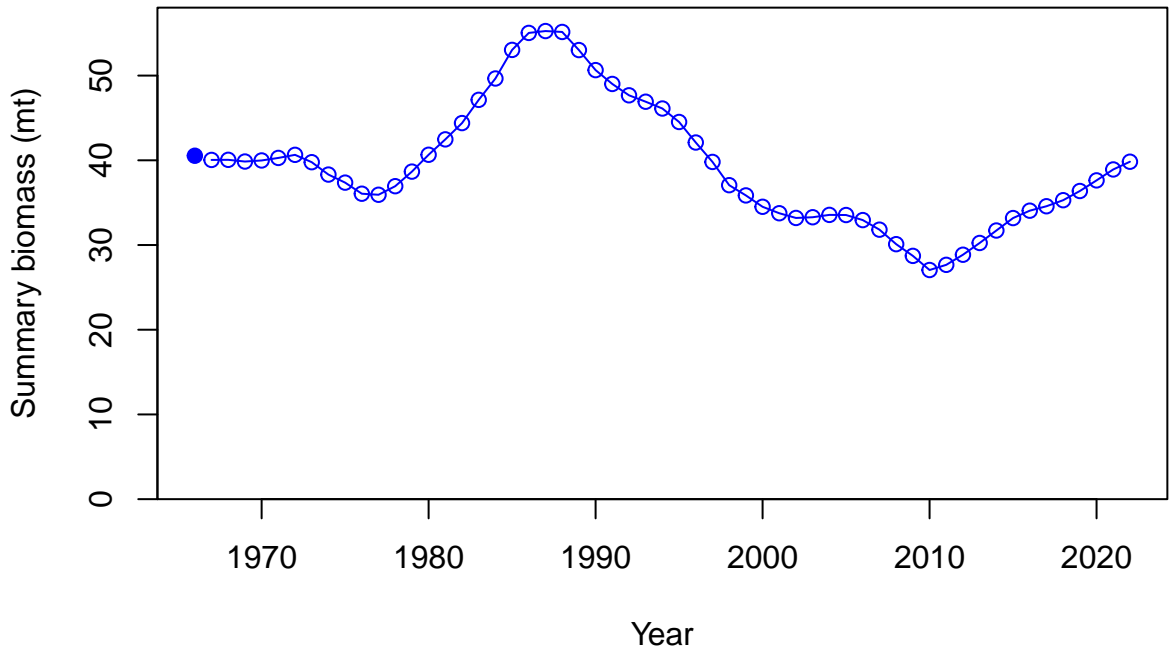
Relative spawning biomass: B/B_{MSY}



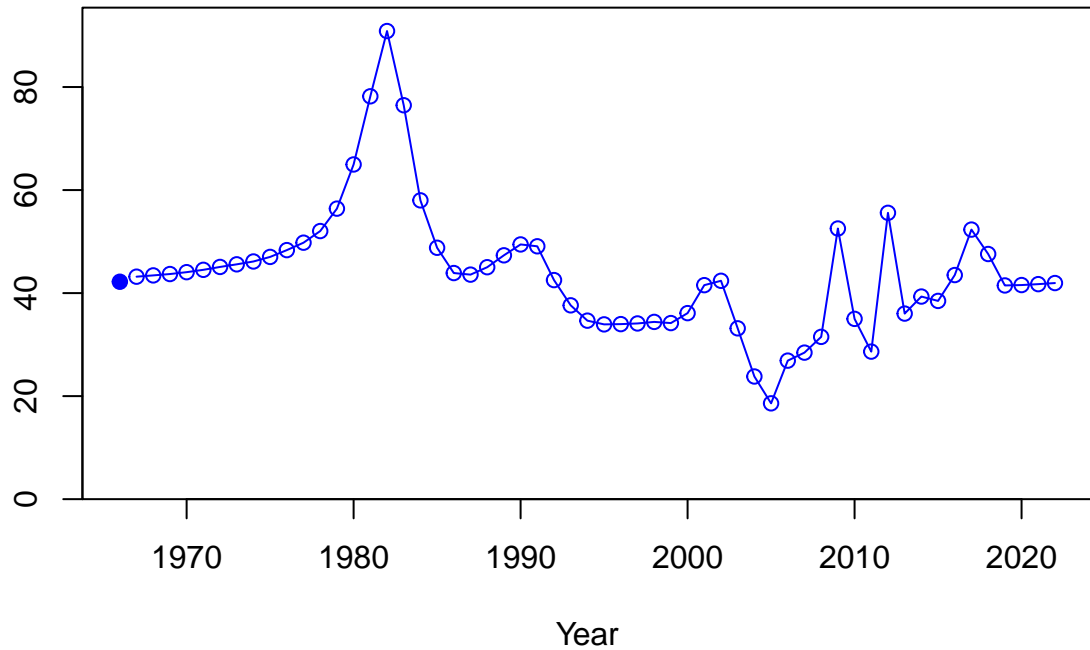
Relative spawning biomass: B/B_{MSY}

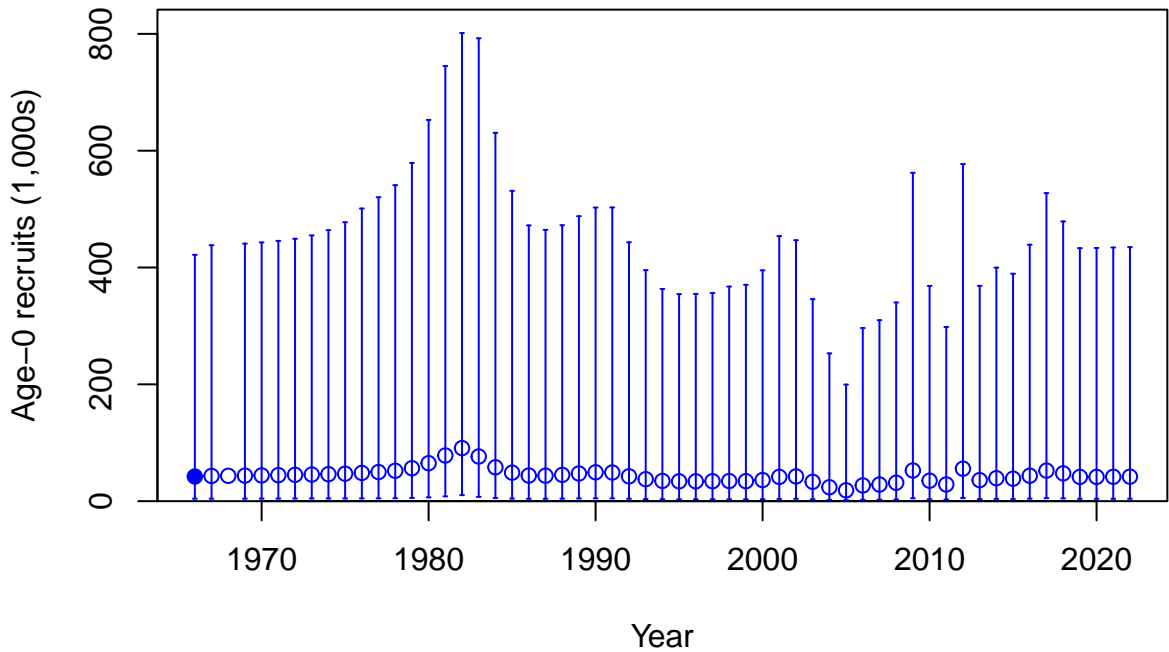




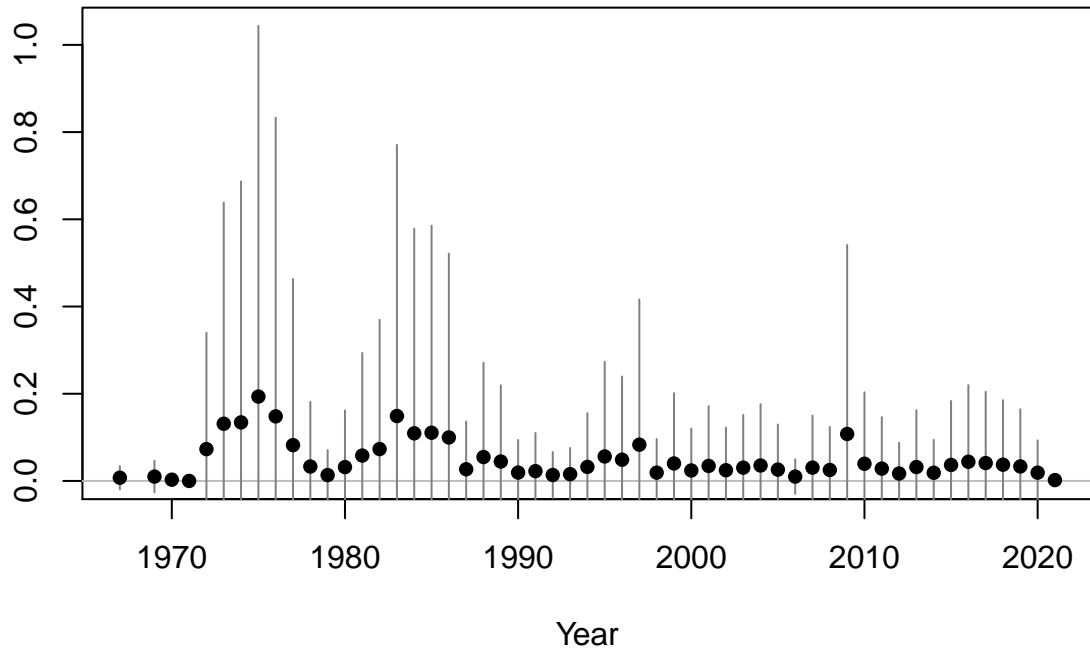


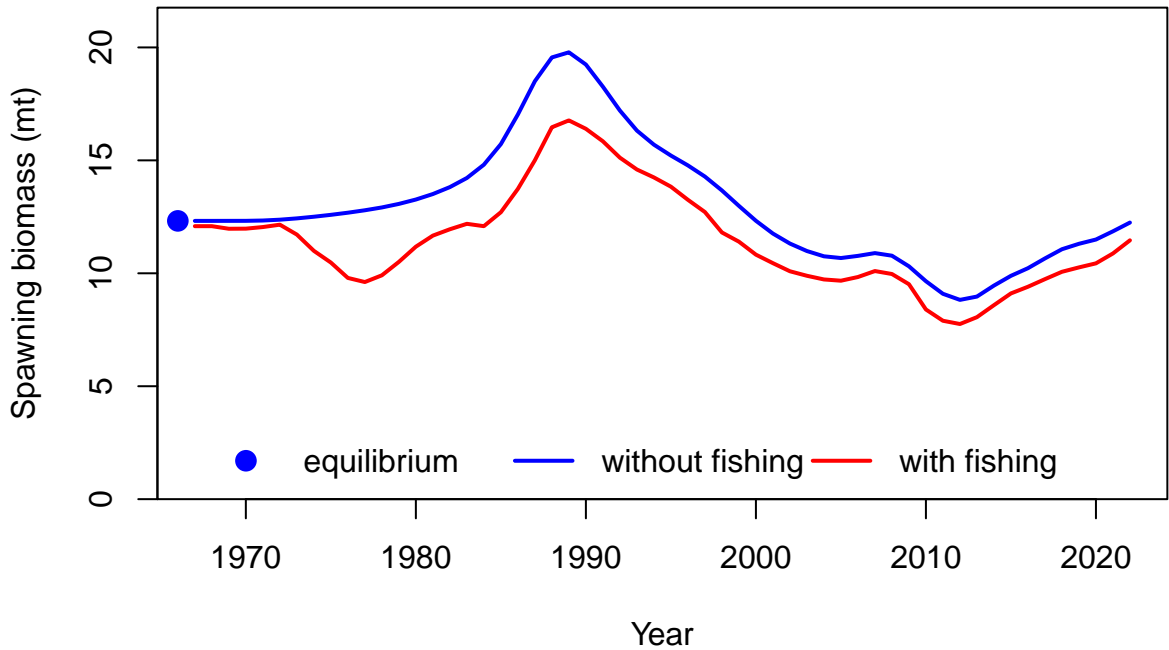
Age-0 recruits (1,000s)



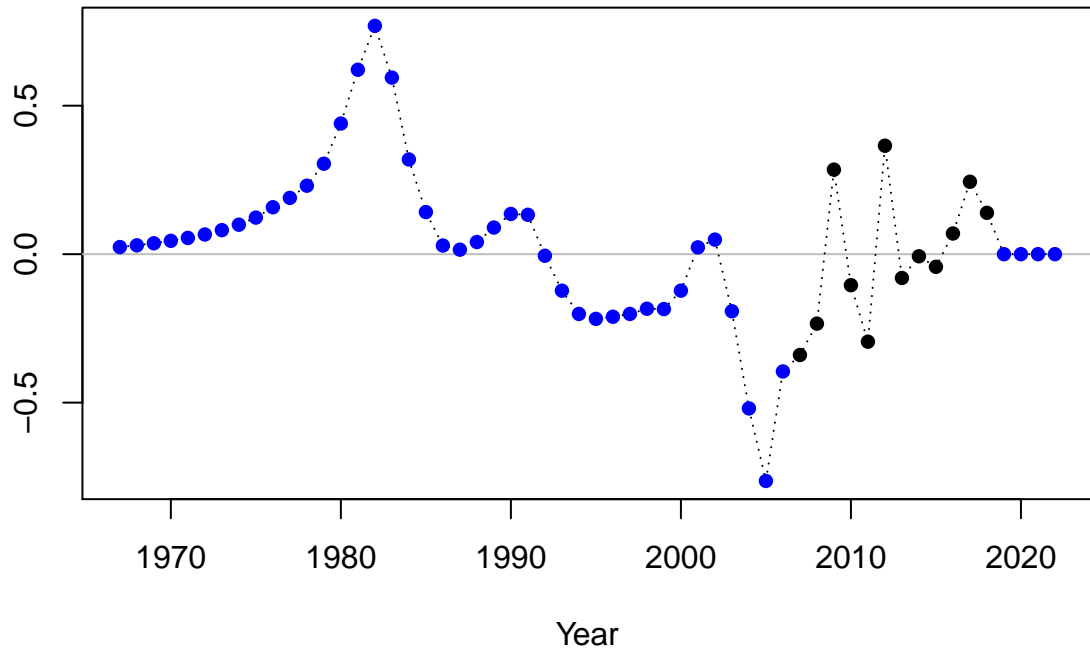


Summary Fishing Mortality

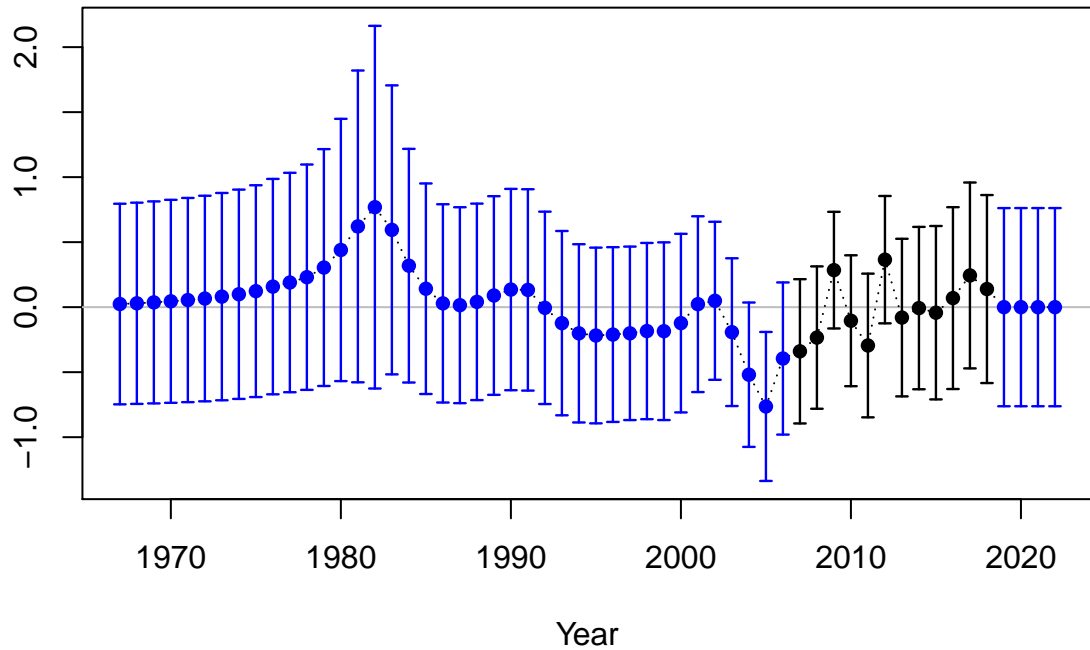




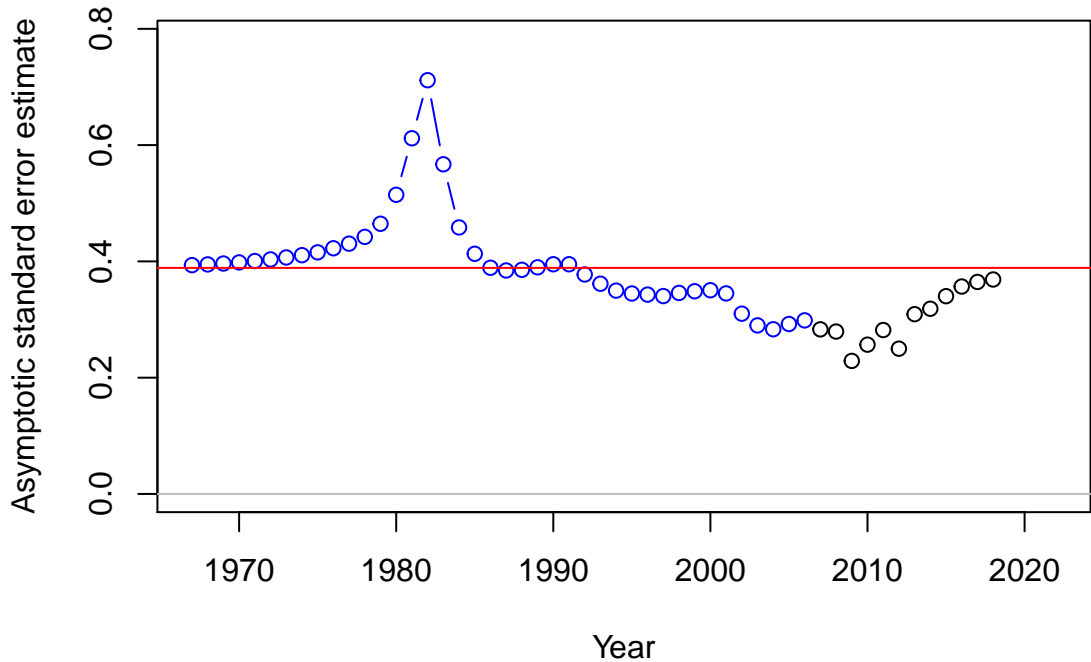
Log recruitment deviation

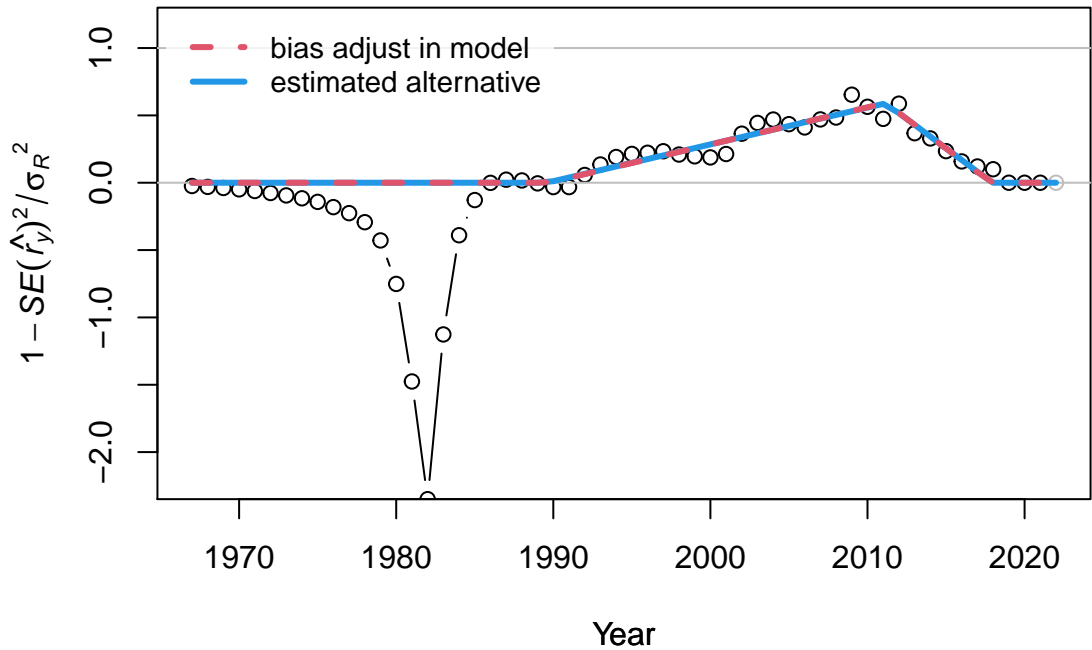


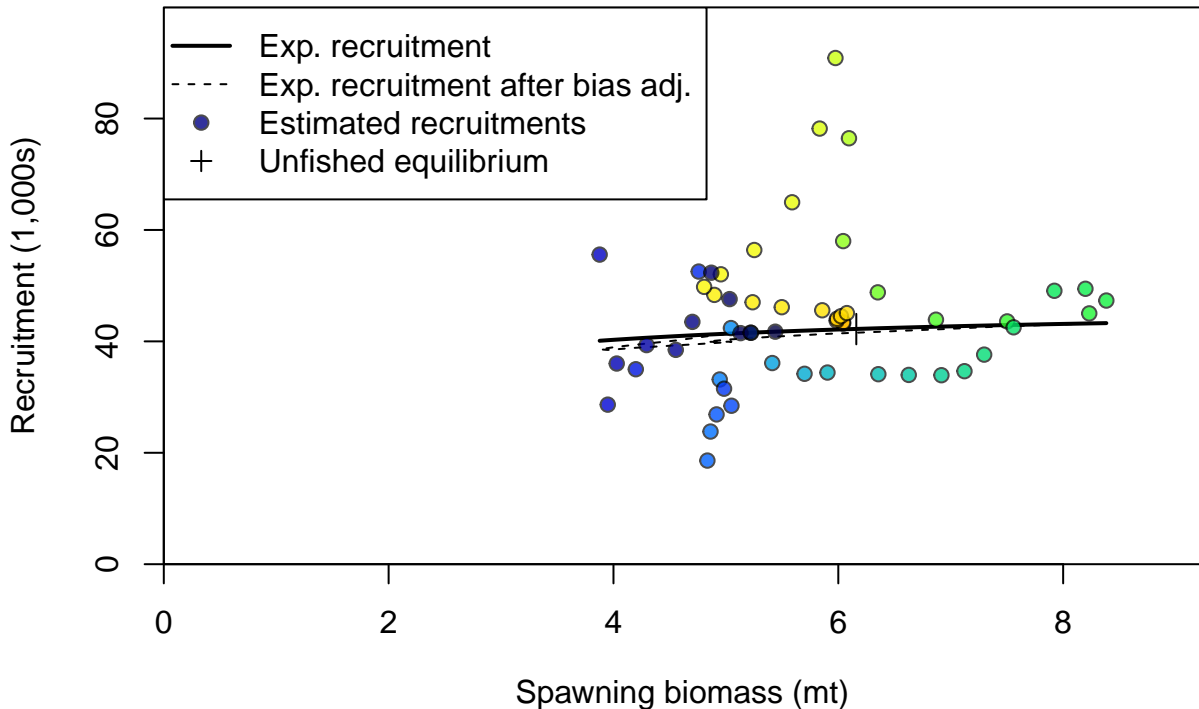
Log recruitment deviation

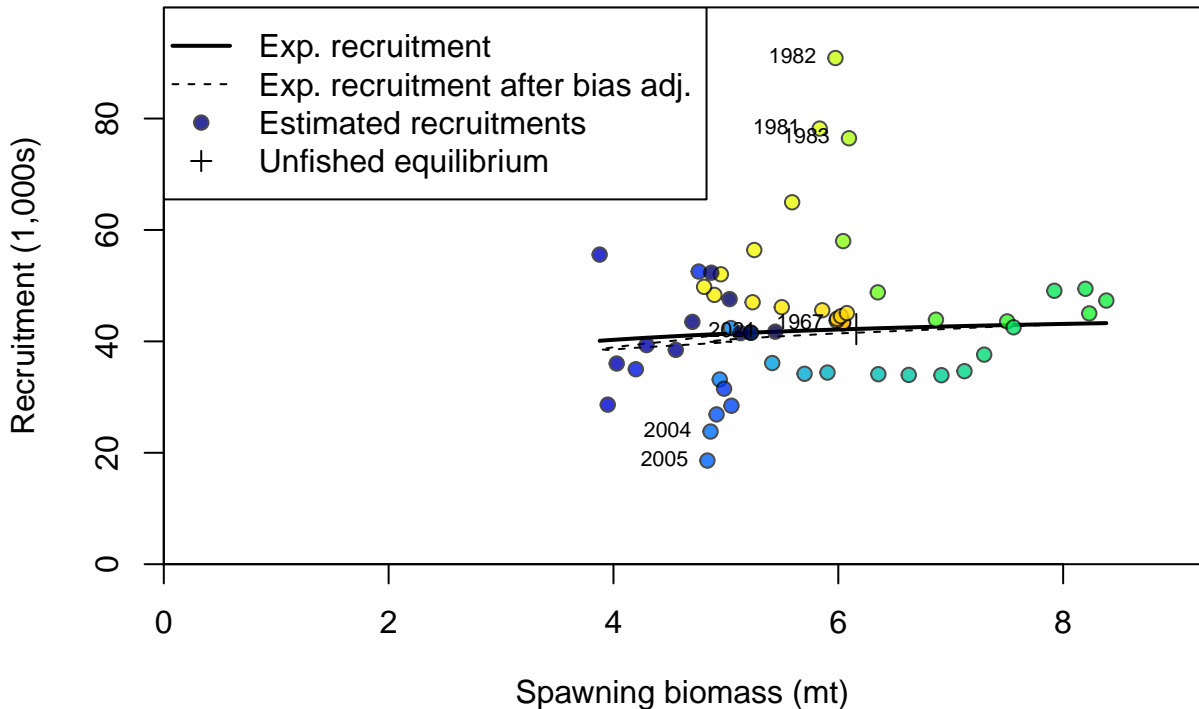


Recruitment deviation variance









Log recruitment deviation

0.5

0.0

-0.5

0.0

0.2

0.4

0.6

0.8

1.0

1.2

1.4

Spawning output (relative to B_0)

1982

1981

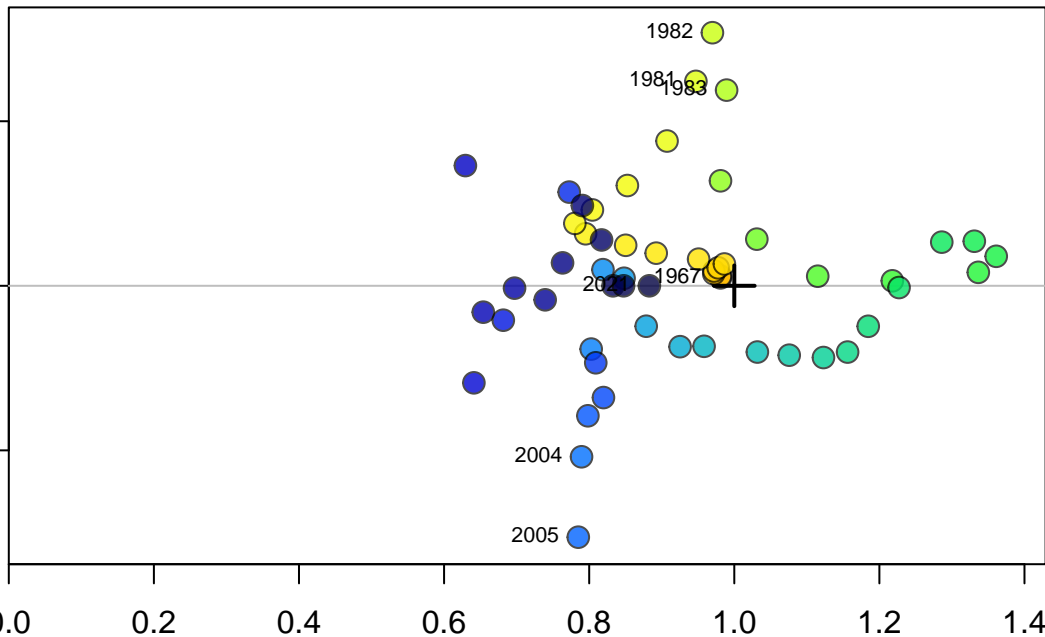
1983

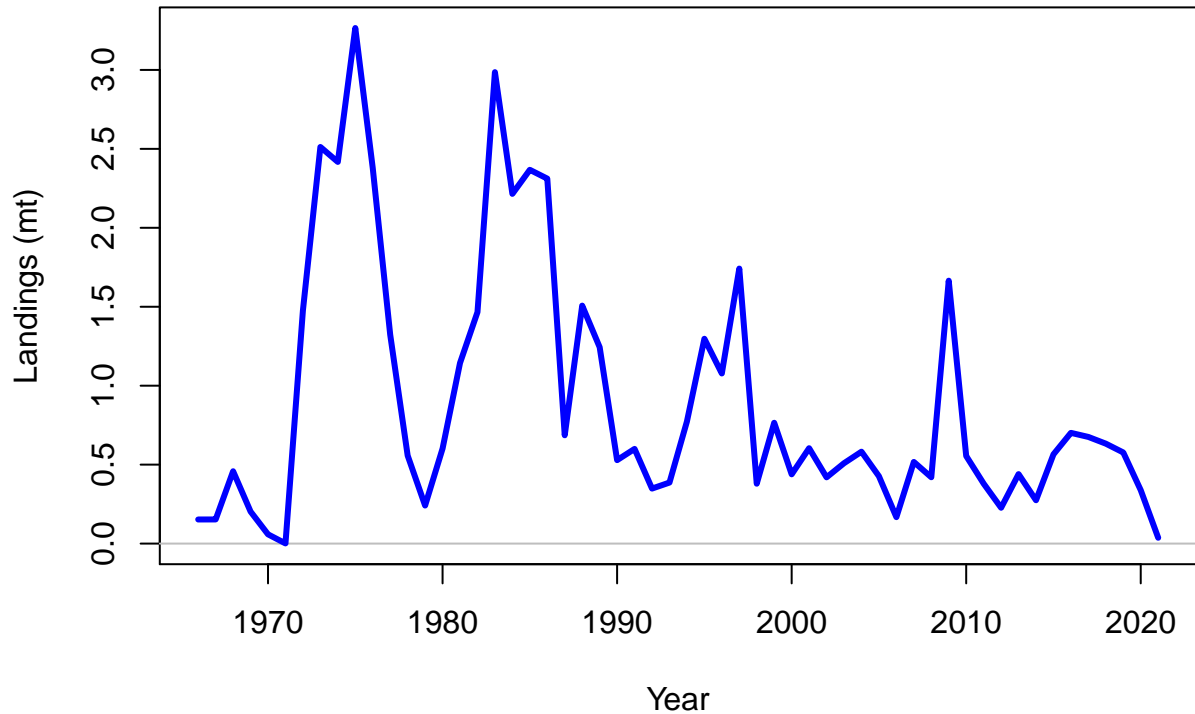
2021

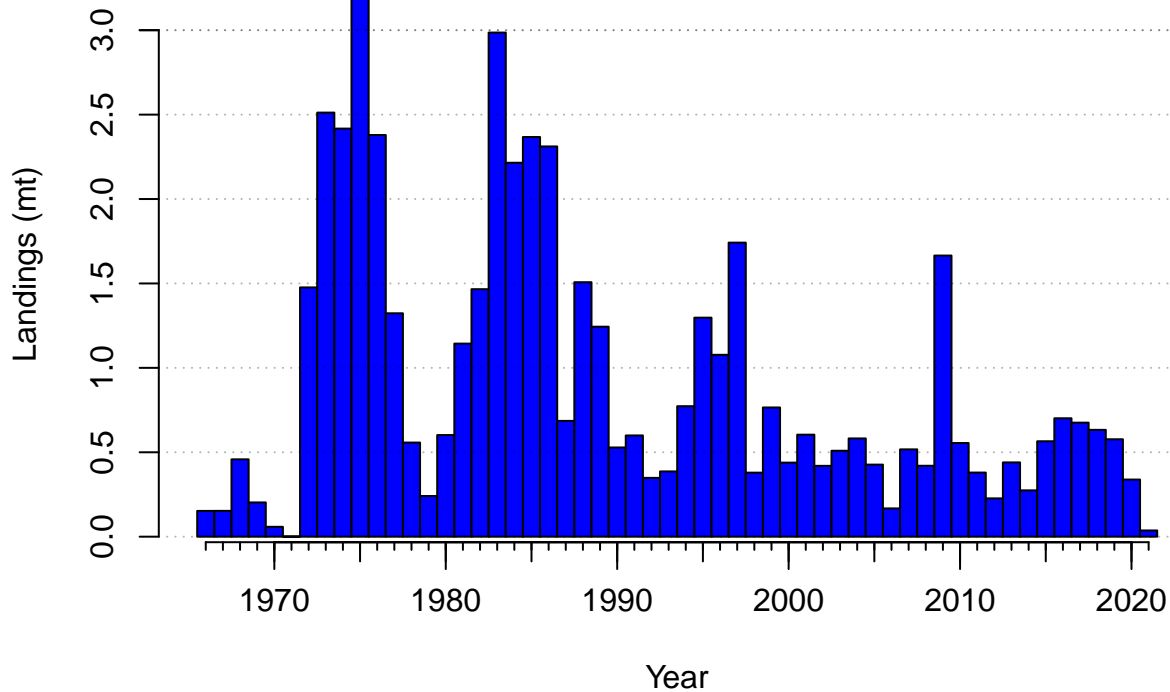
1967

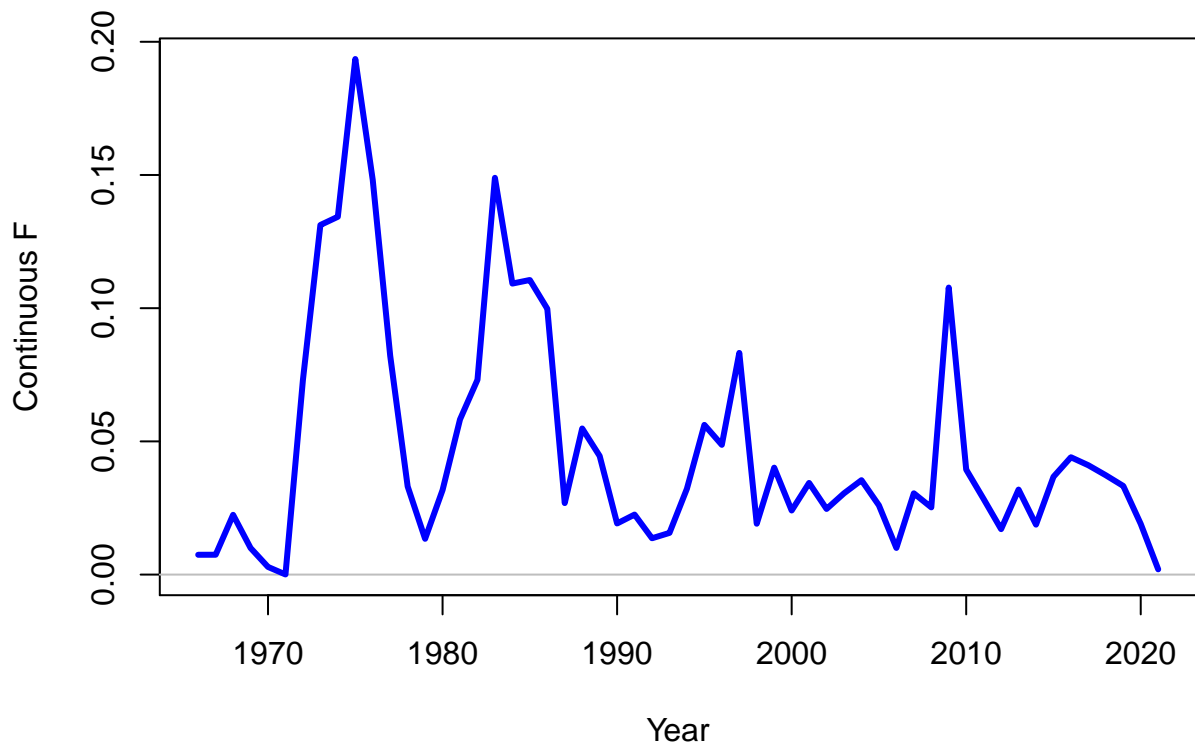
2004

2005

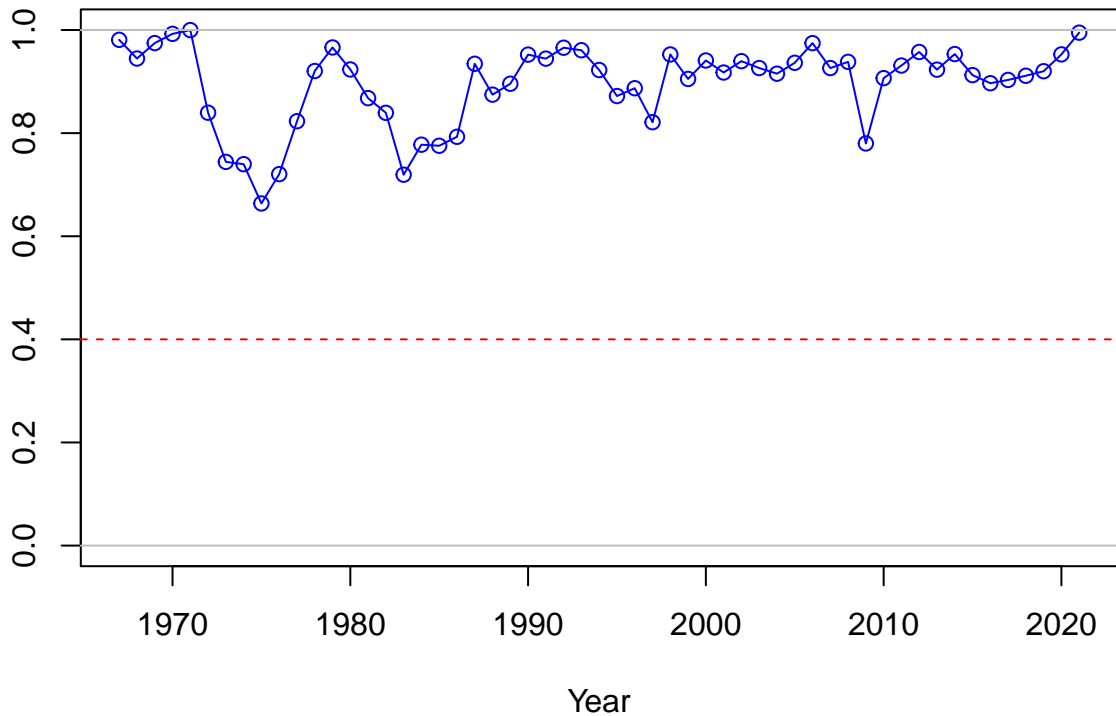




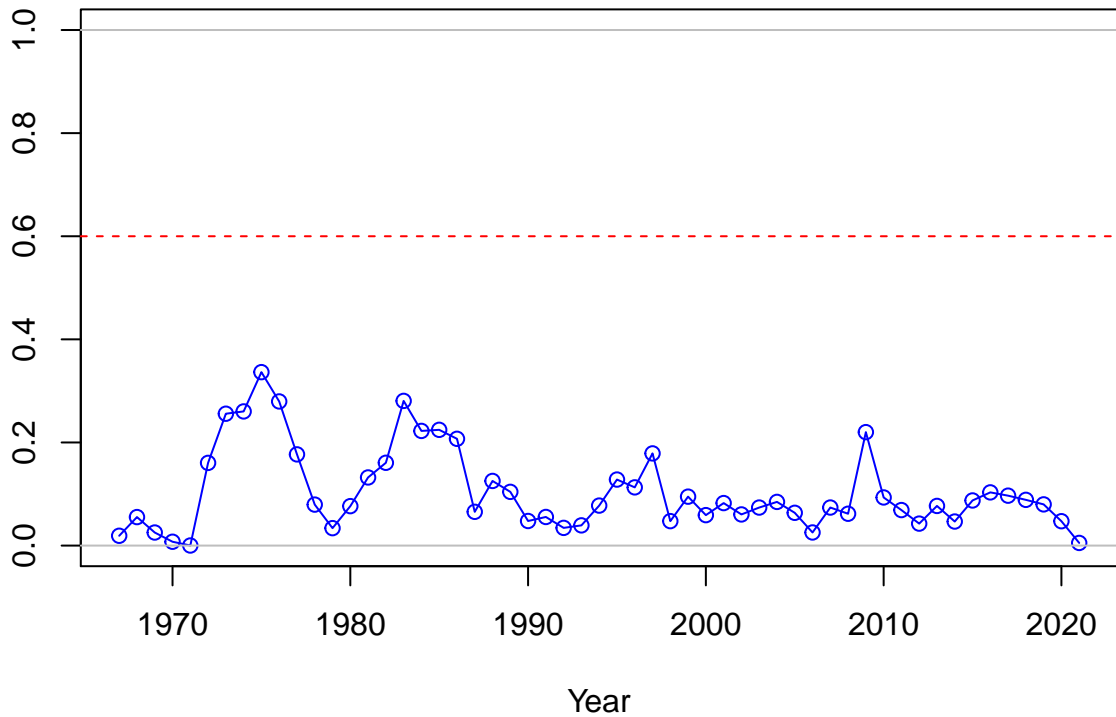




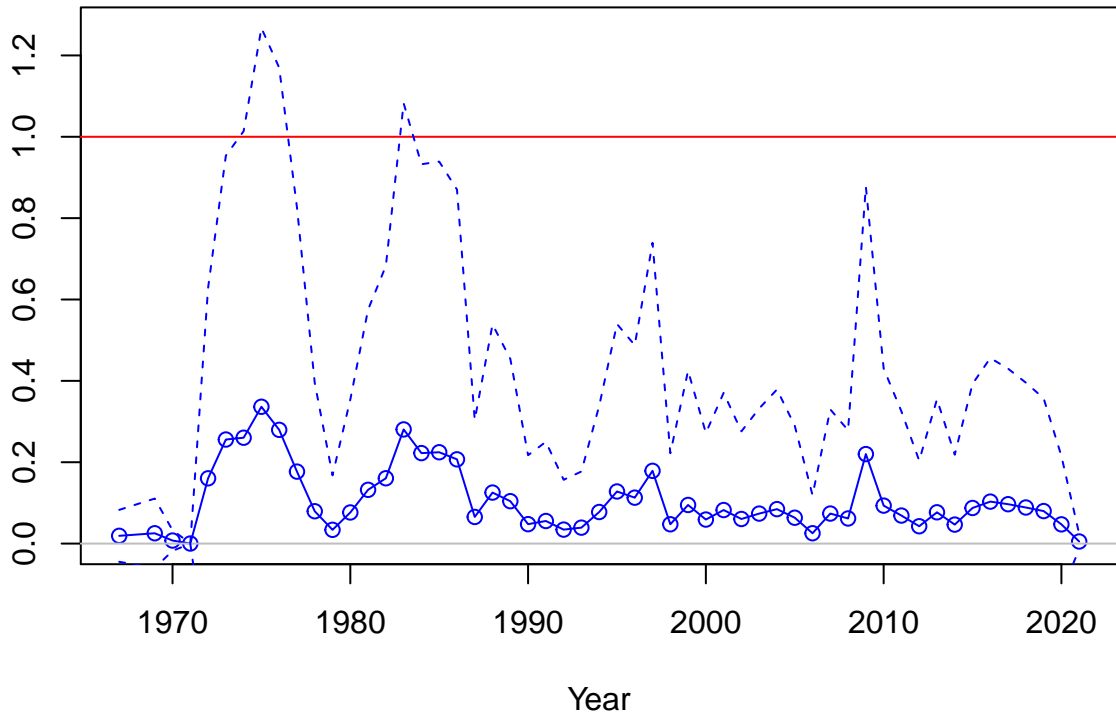
SPR



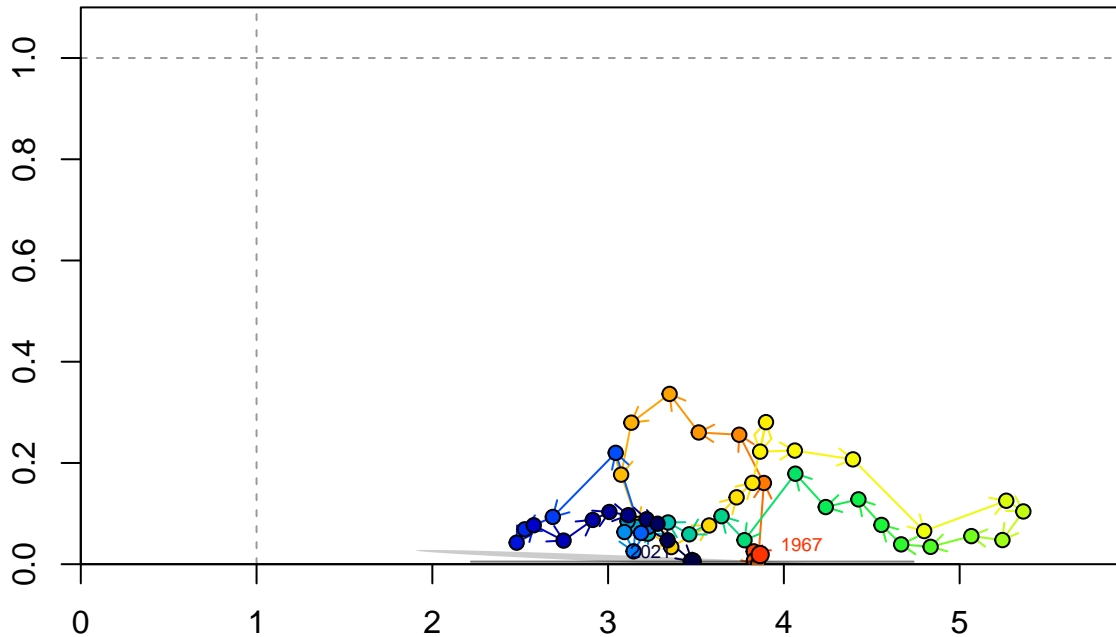
1-SPR



Fishing intensity: 1-SPR

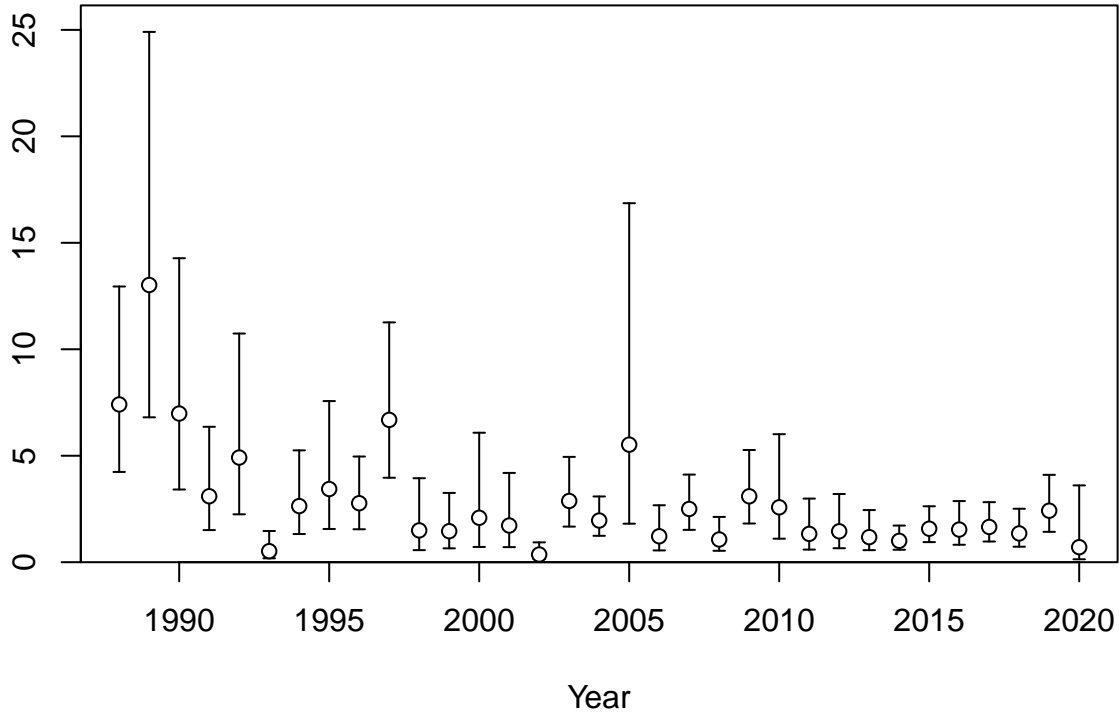


Fishing intensity: 1-SPR

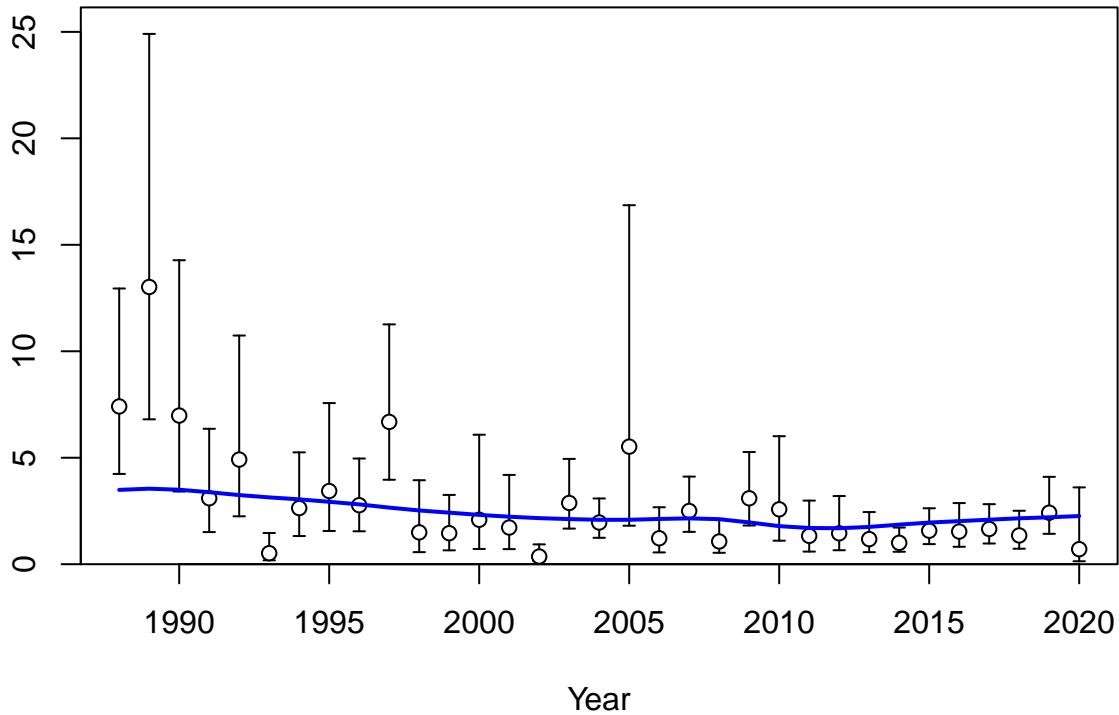


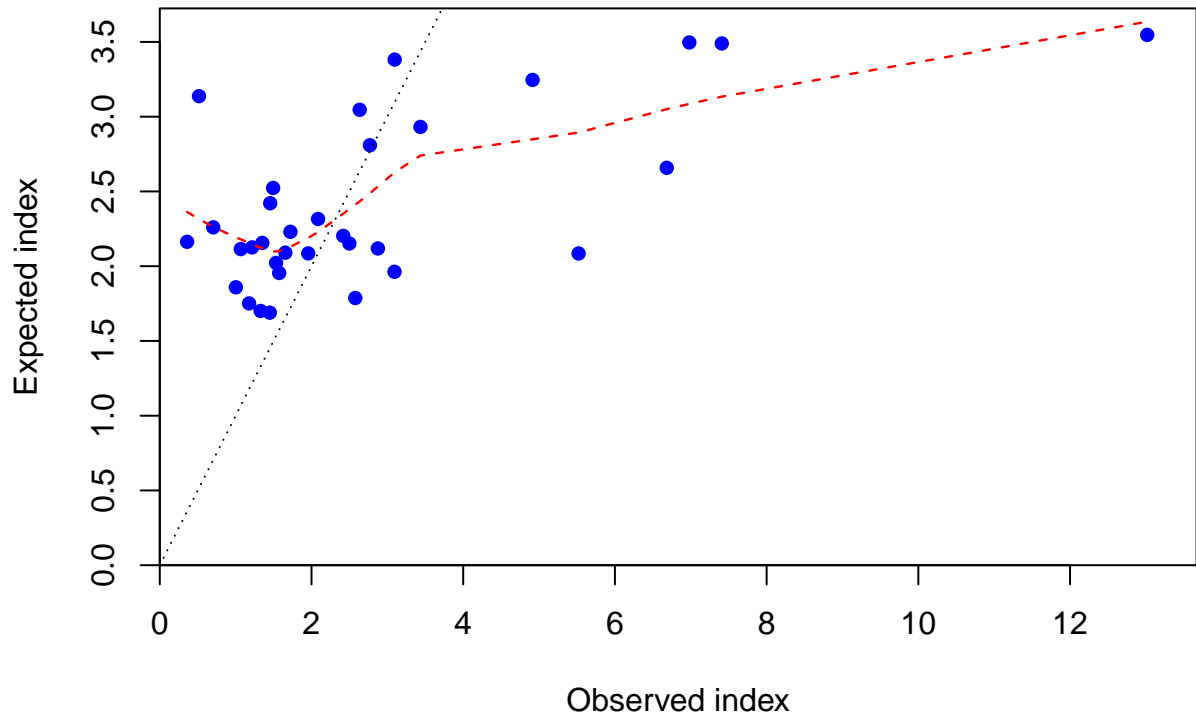
Relative spawning output: B/B_{MS}

Index

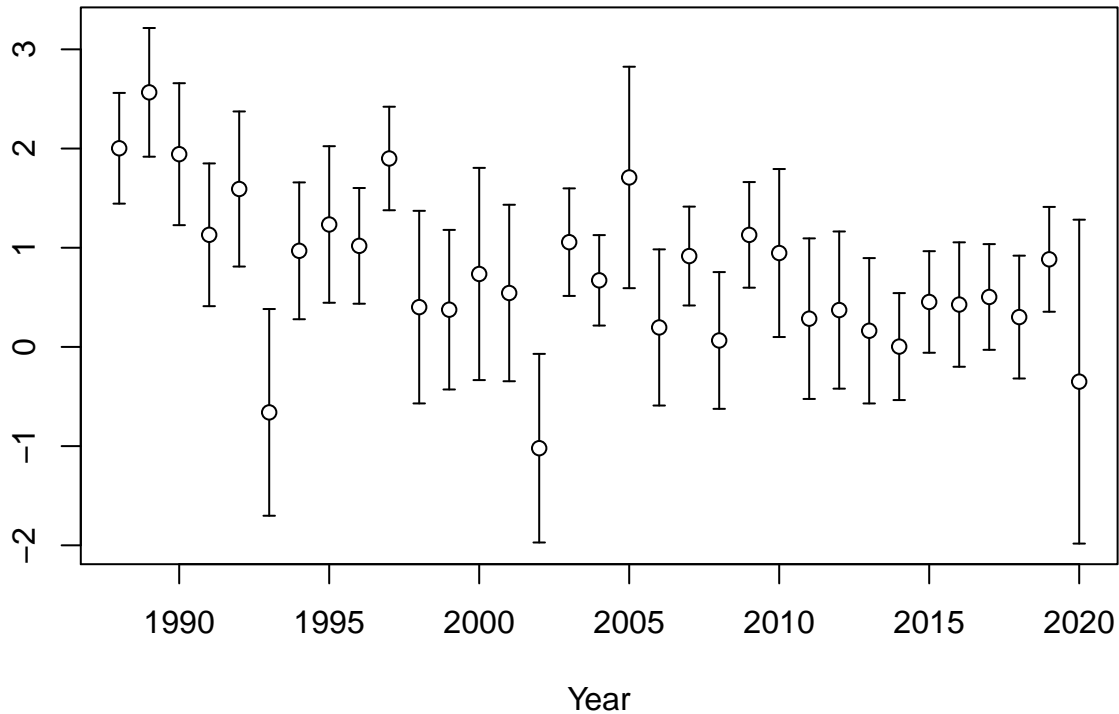


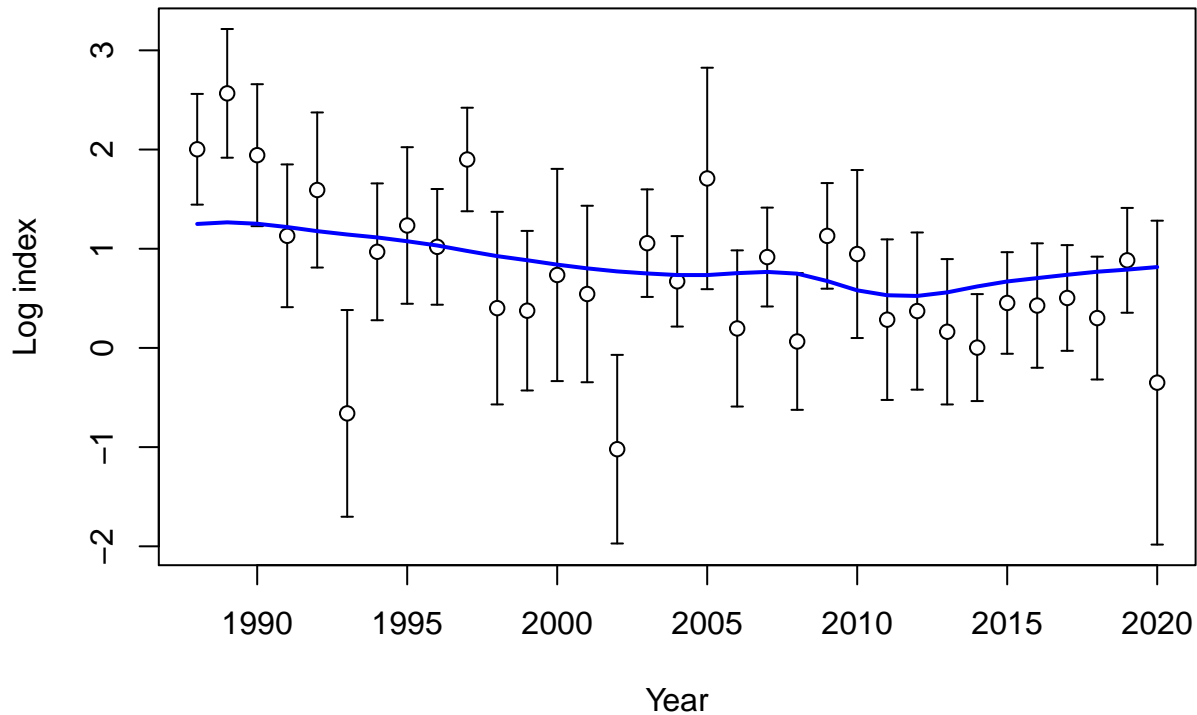
Index

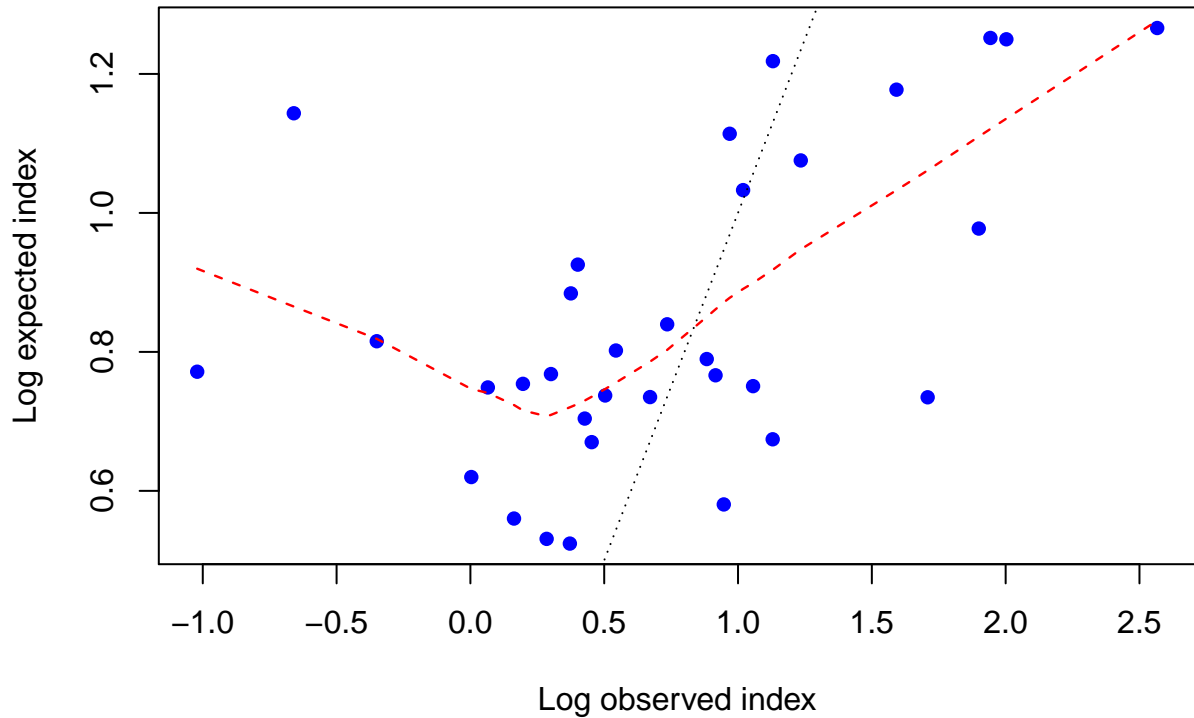




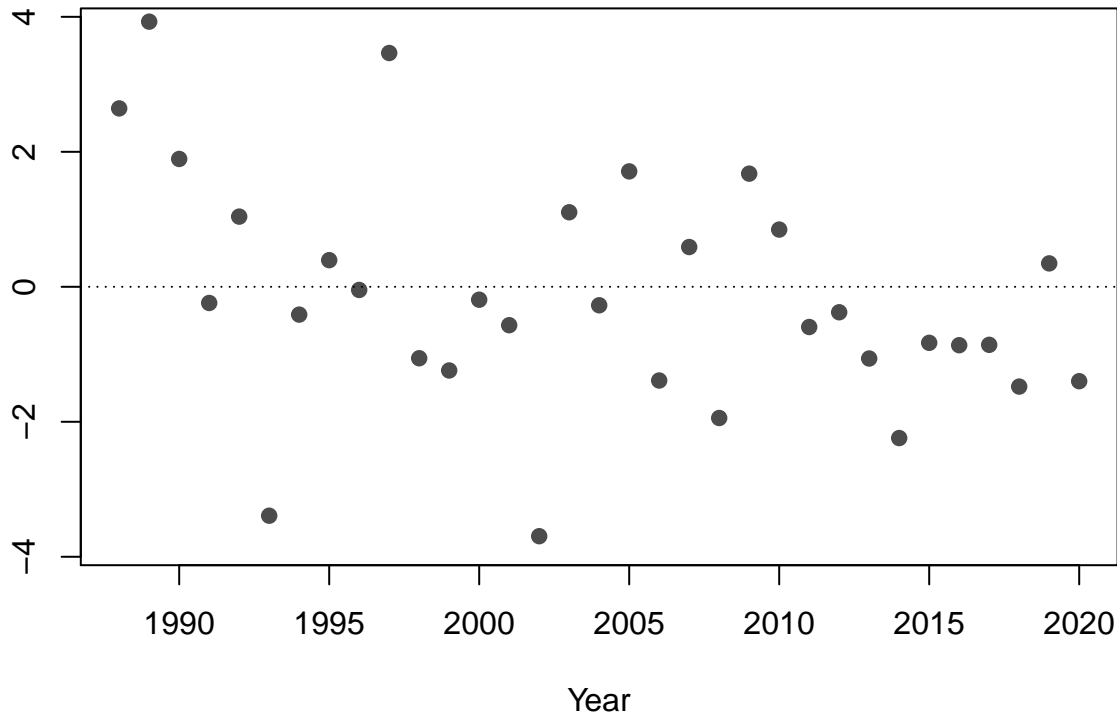
Log index

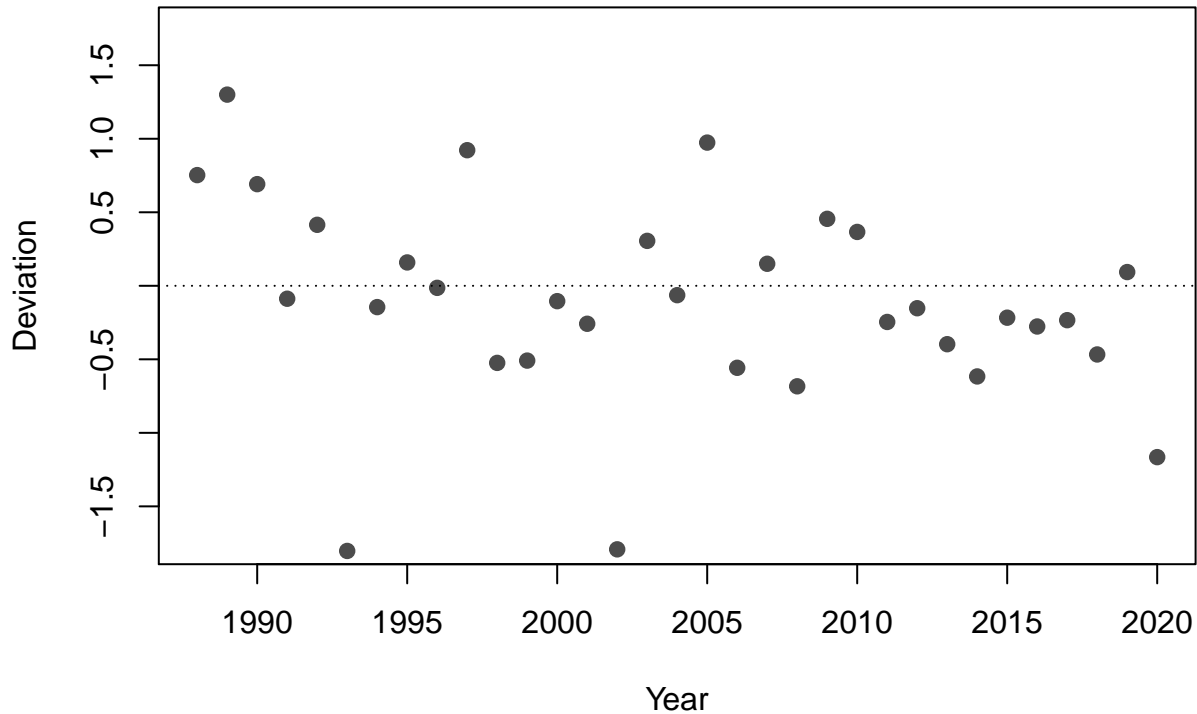


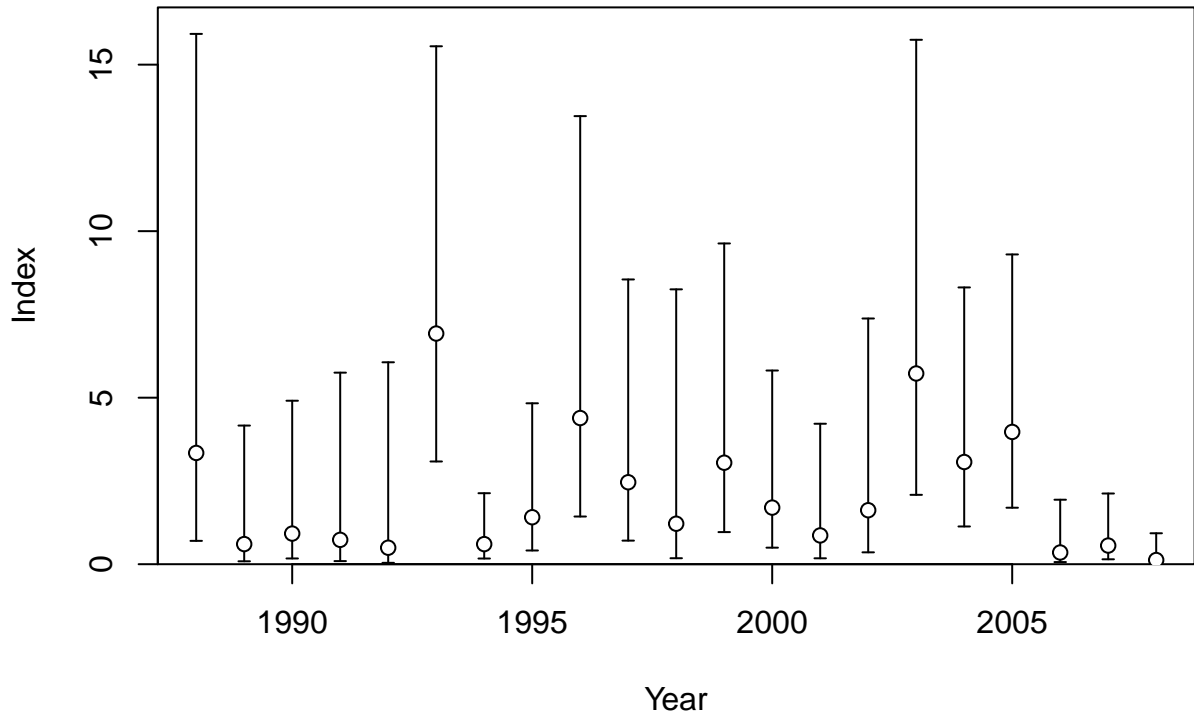


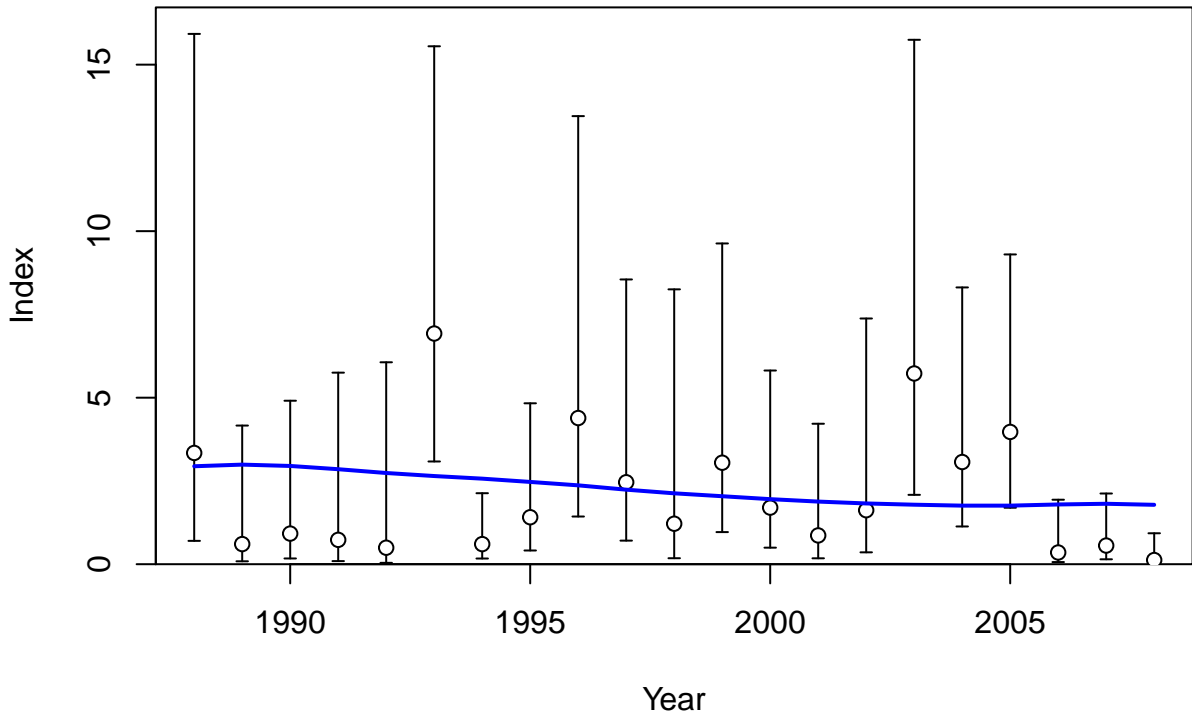


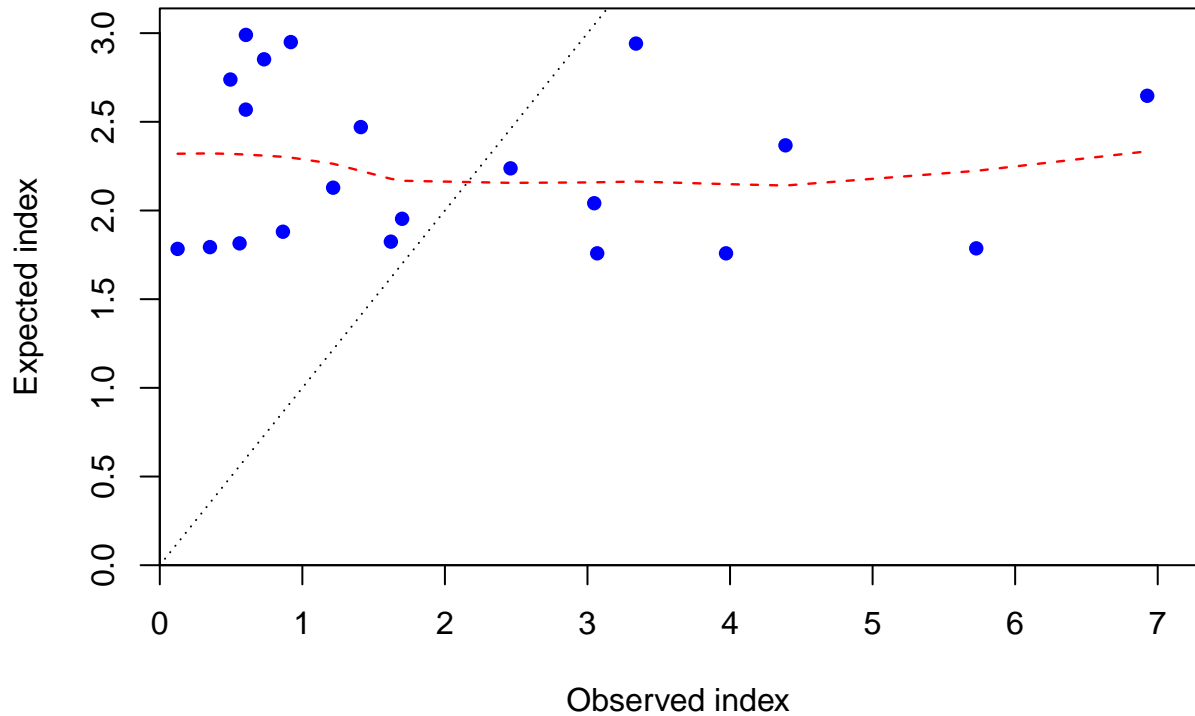
Residual



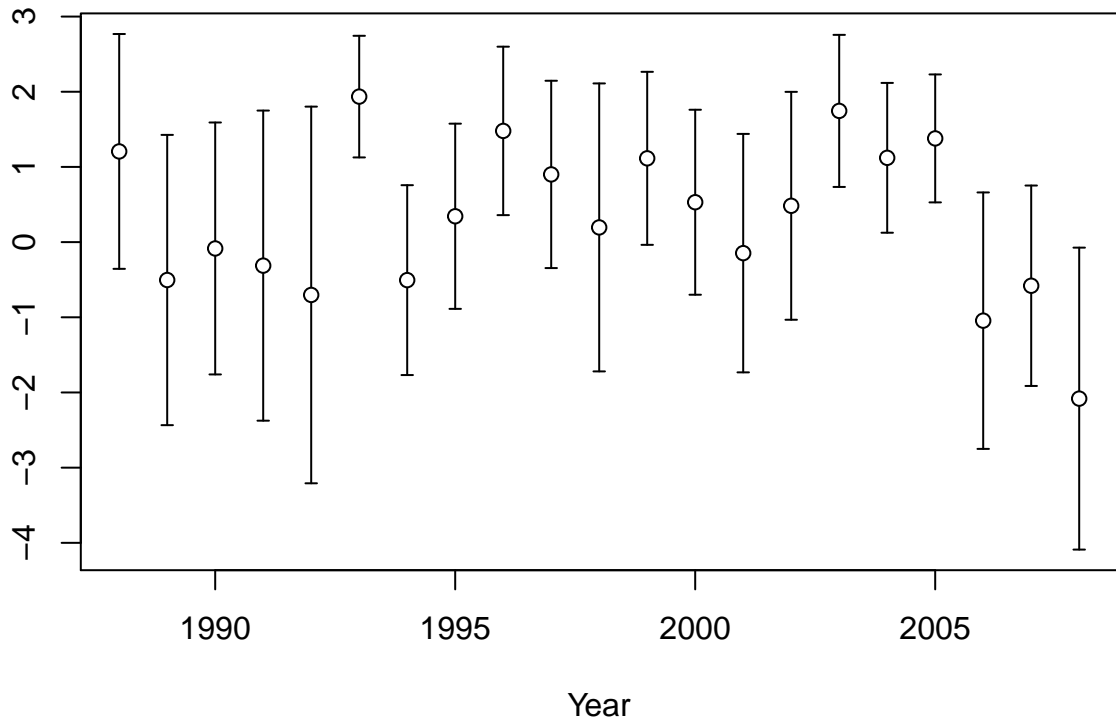




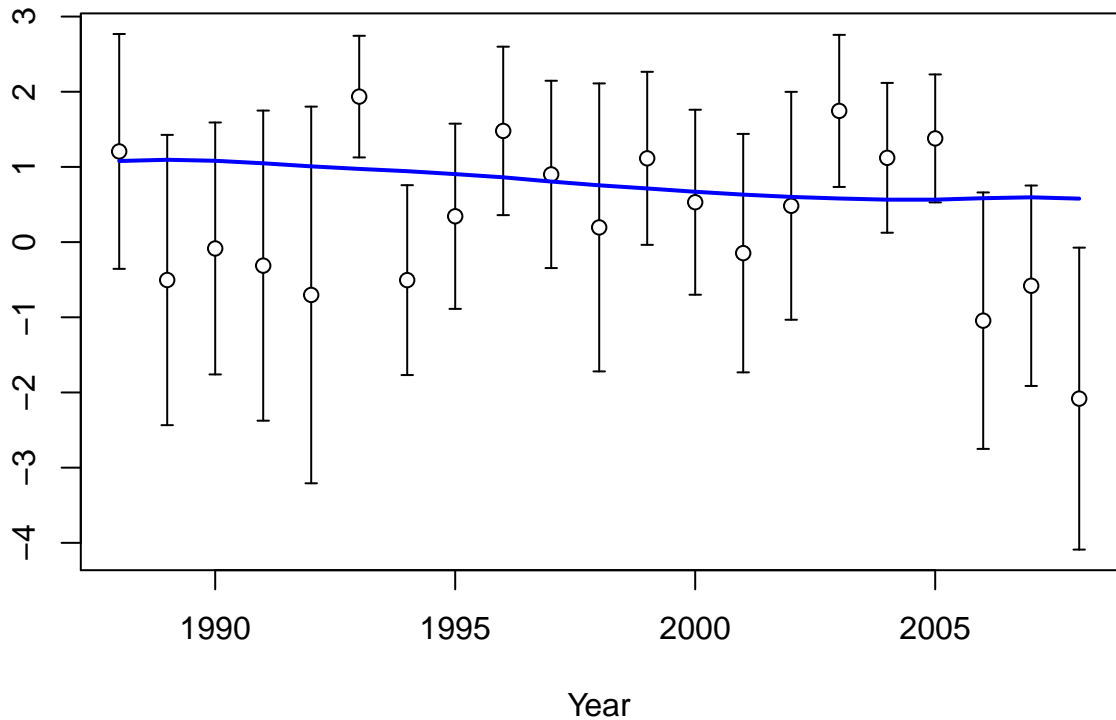


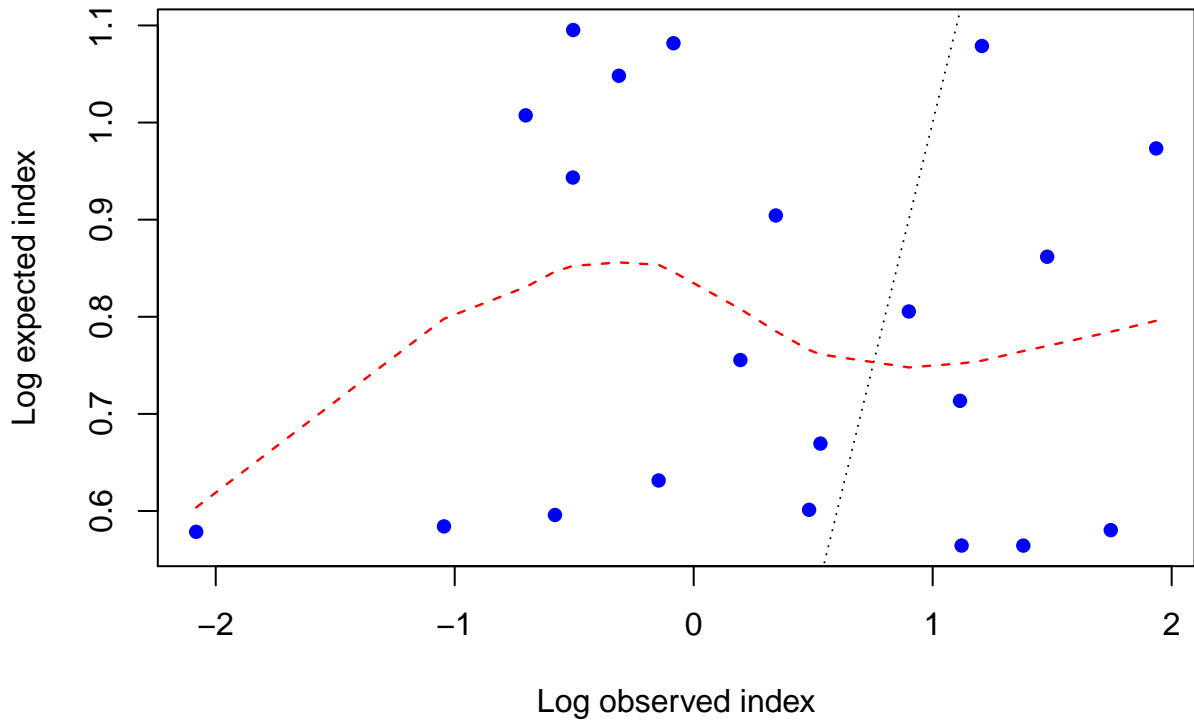


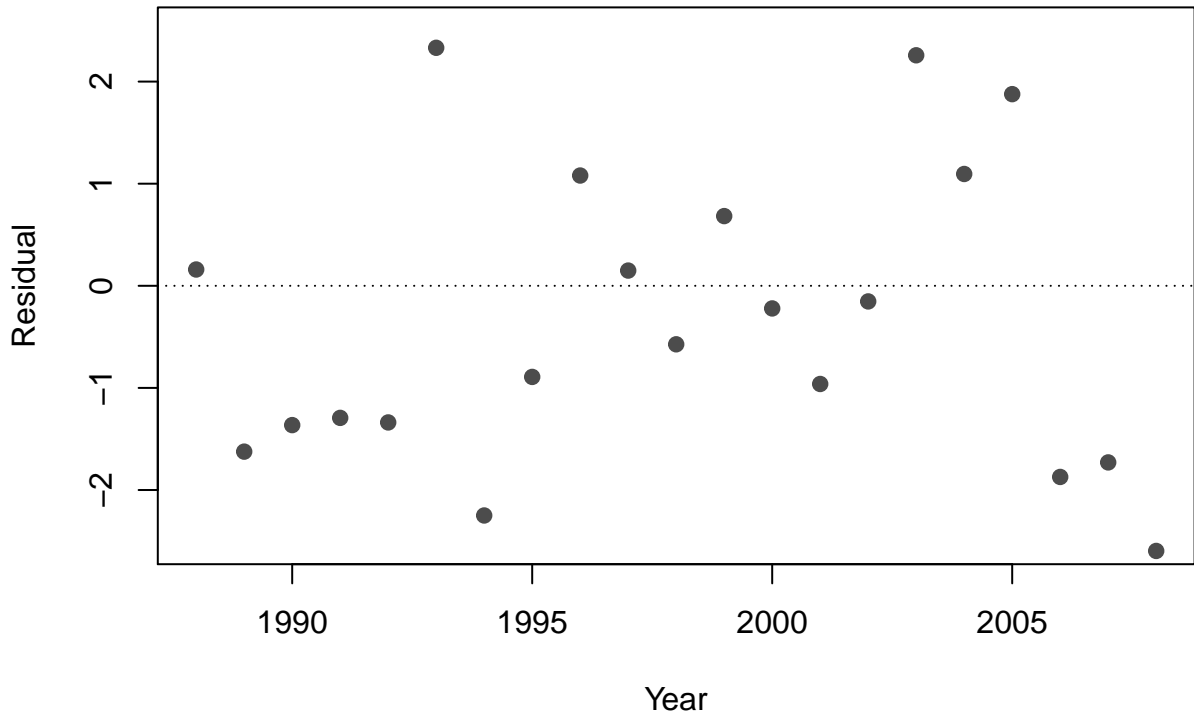
Log index

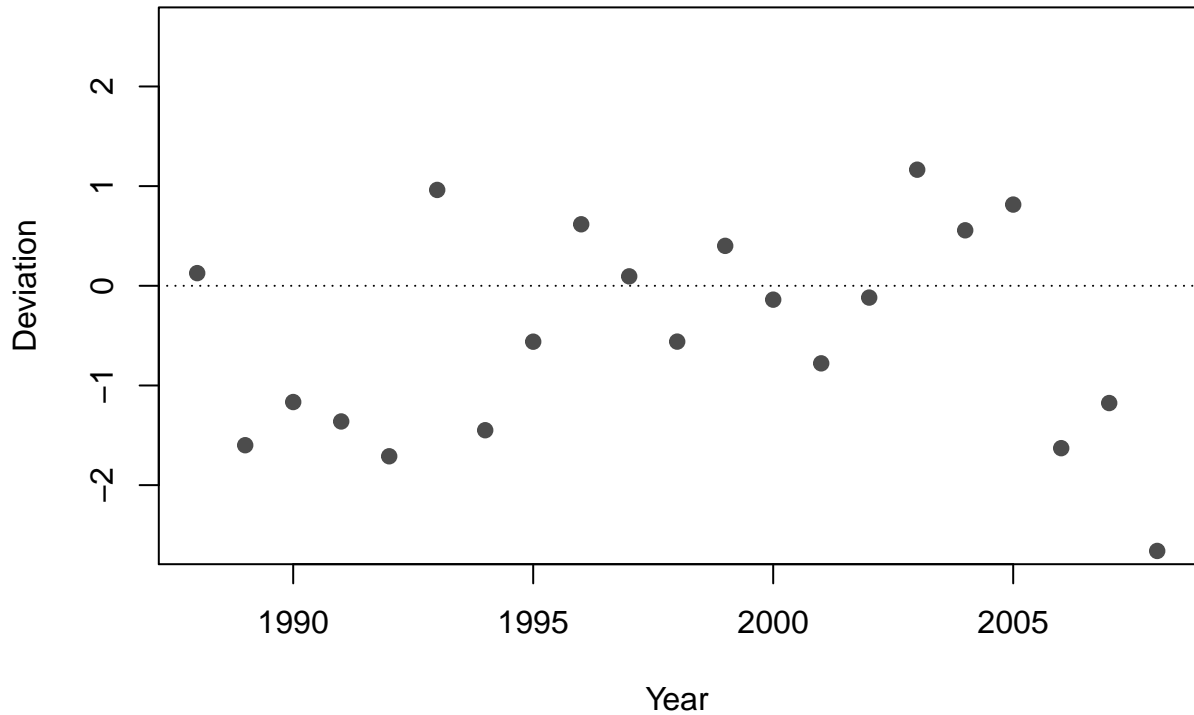


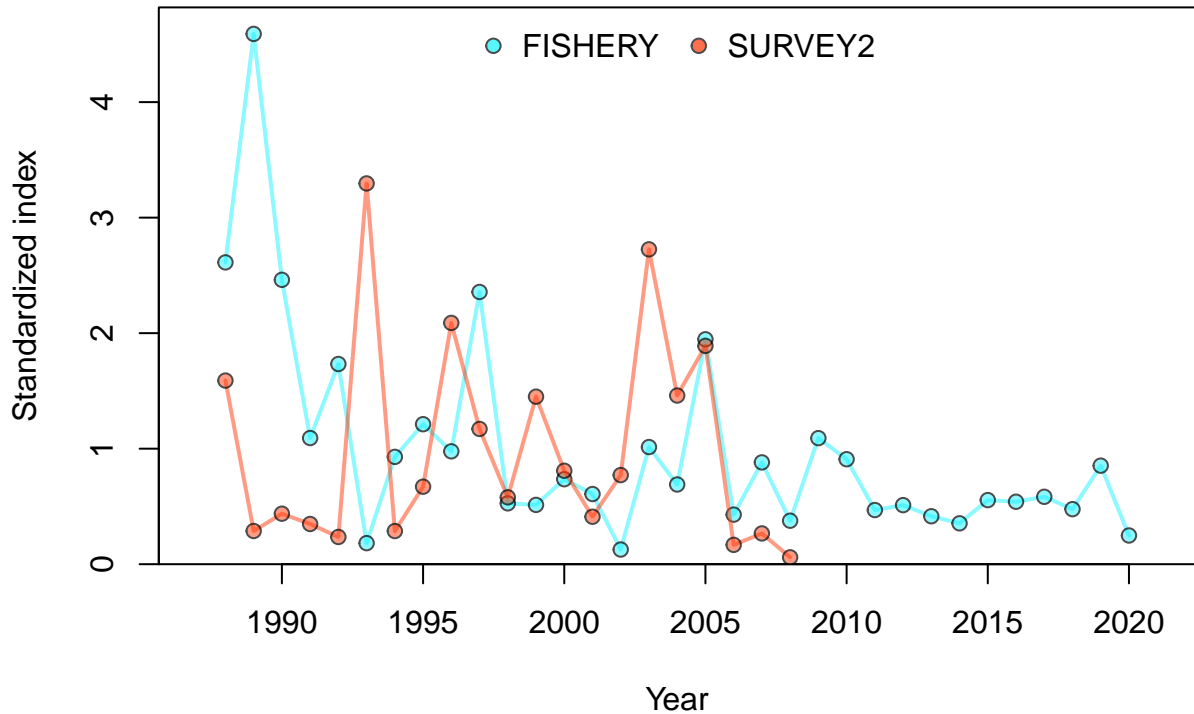
Log index

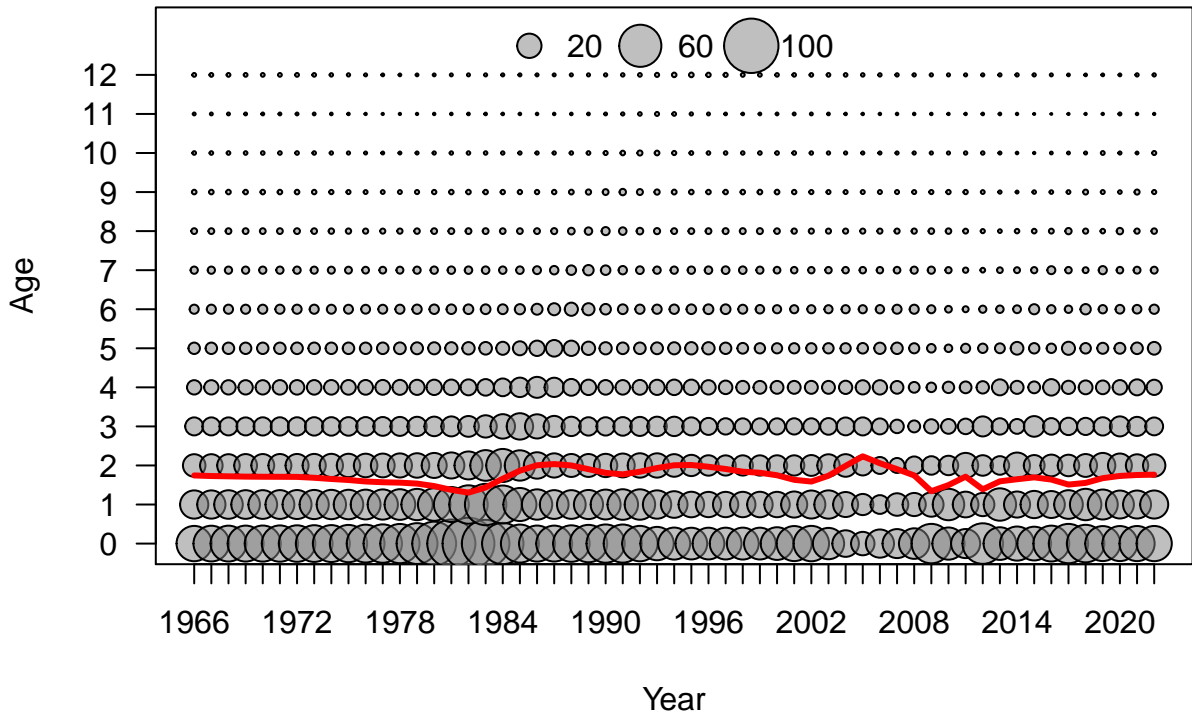


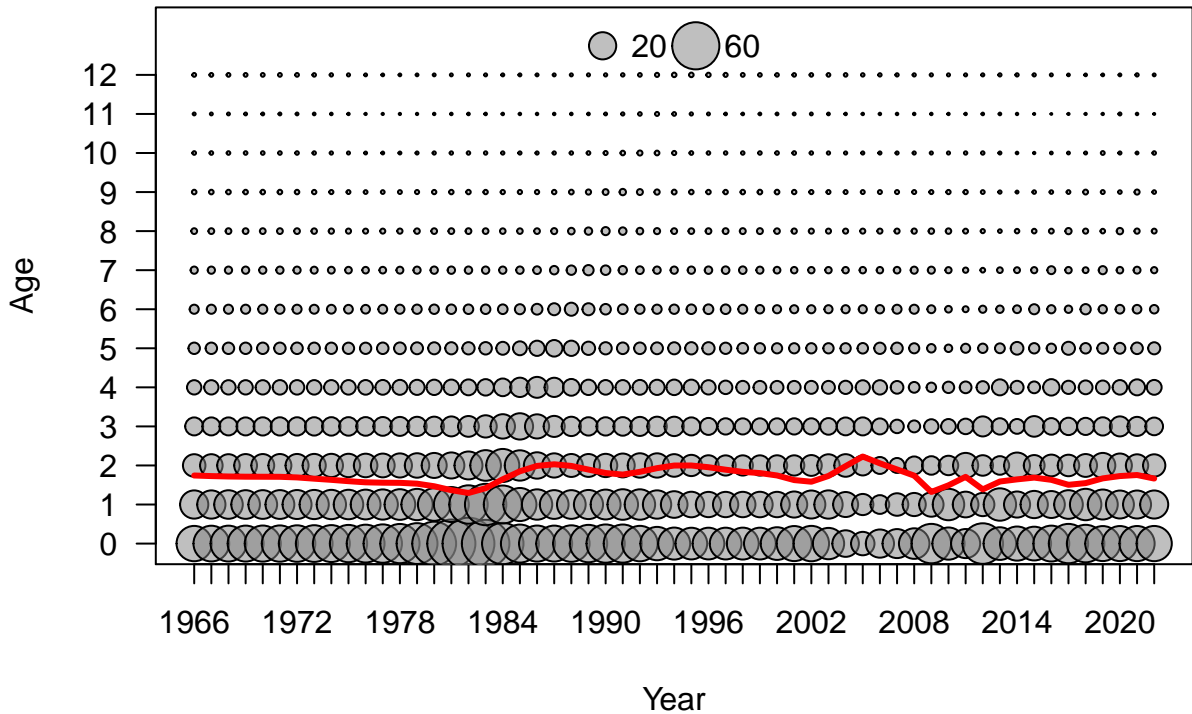


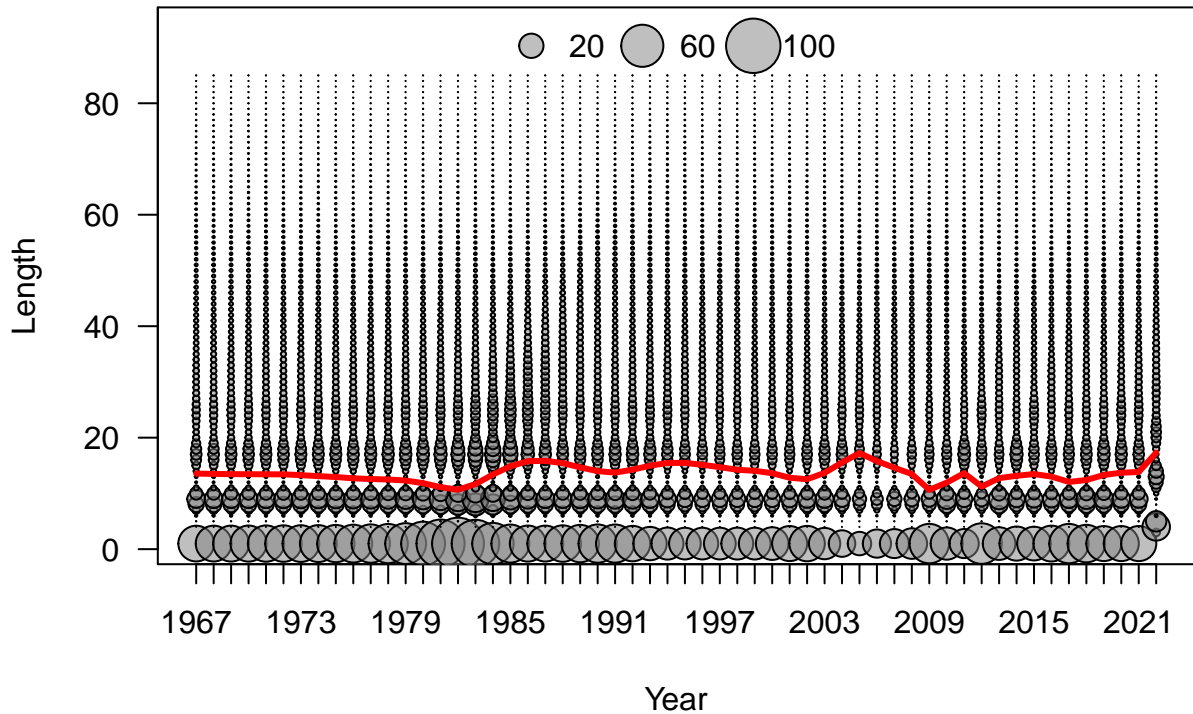


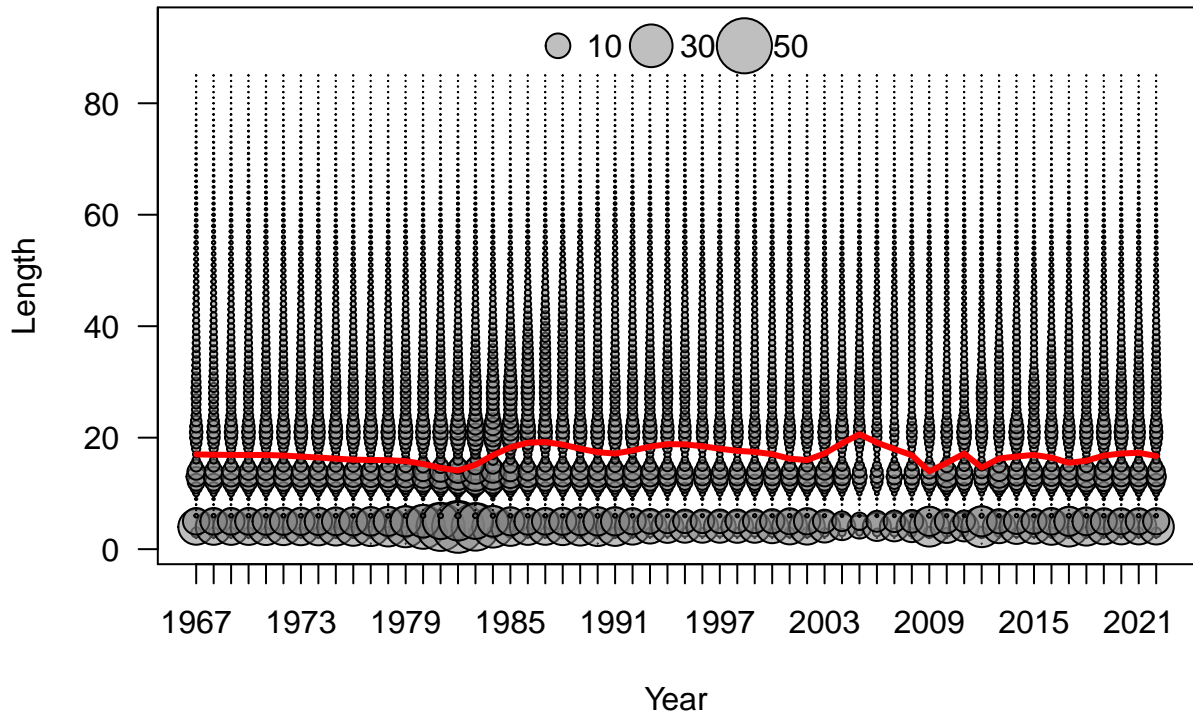


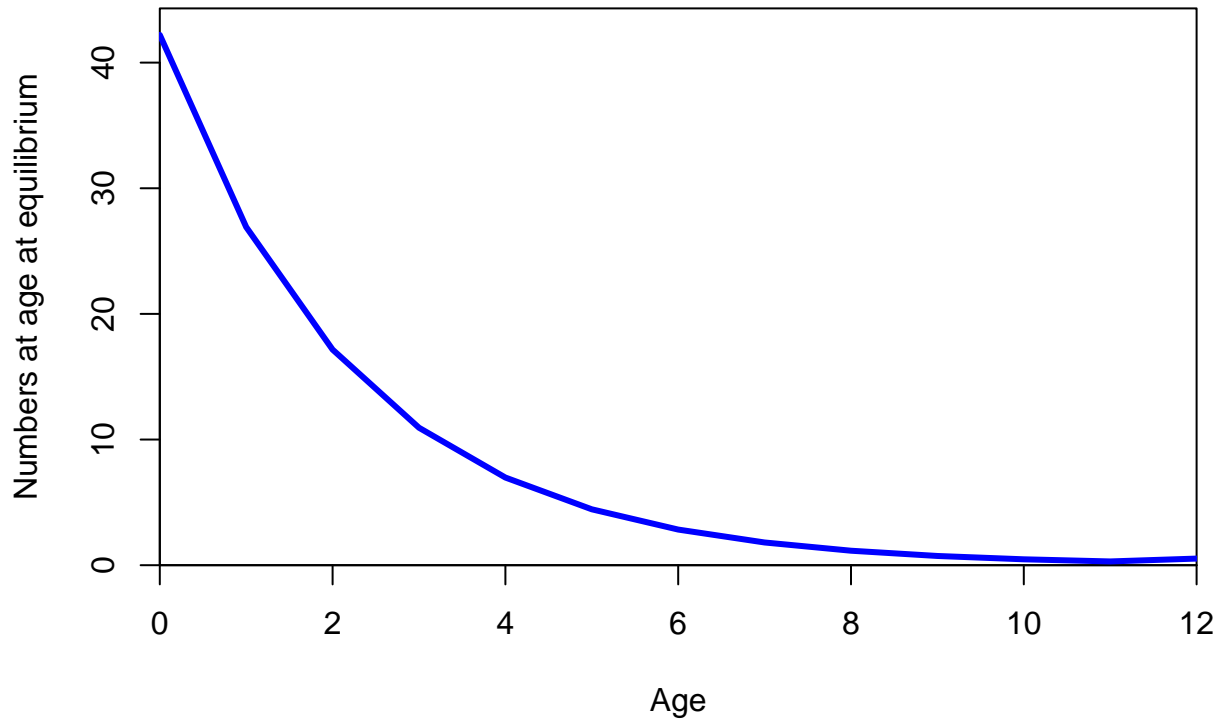






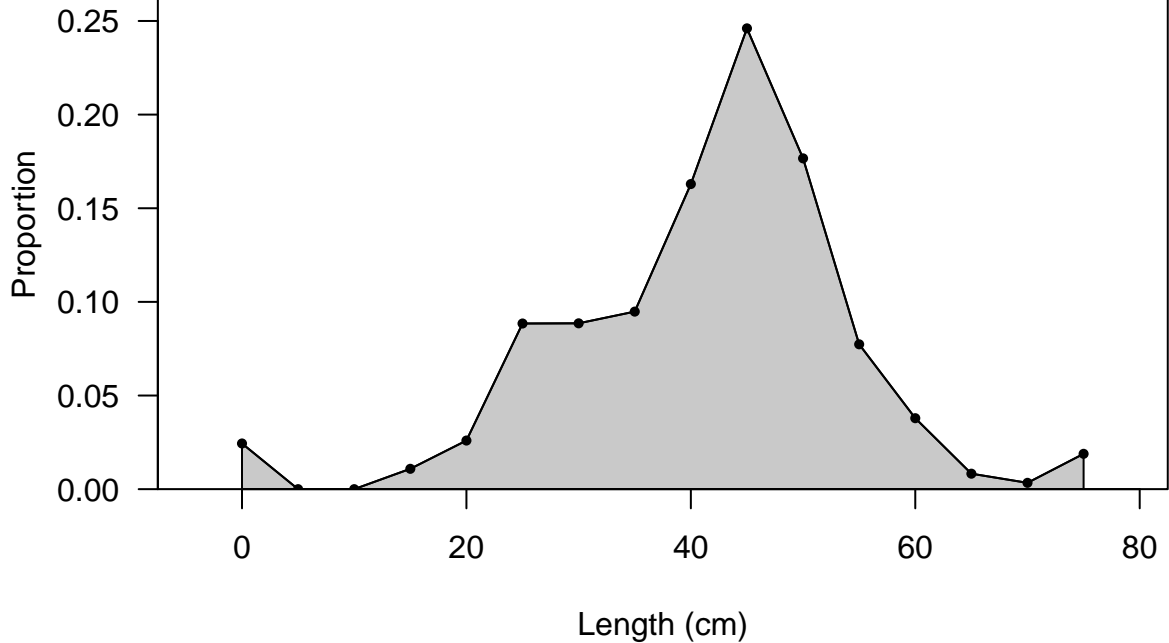


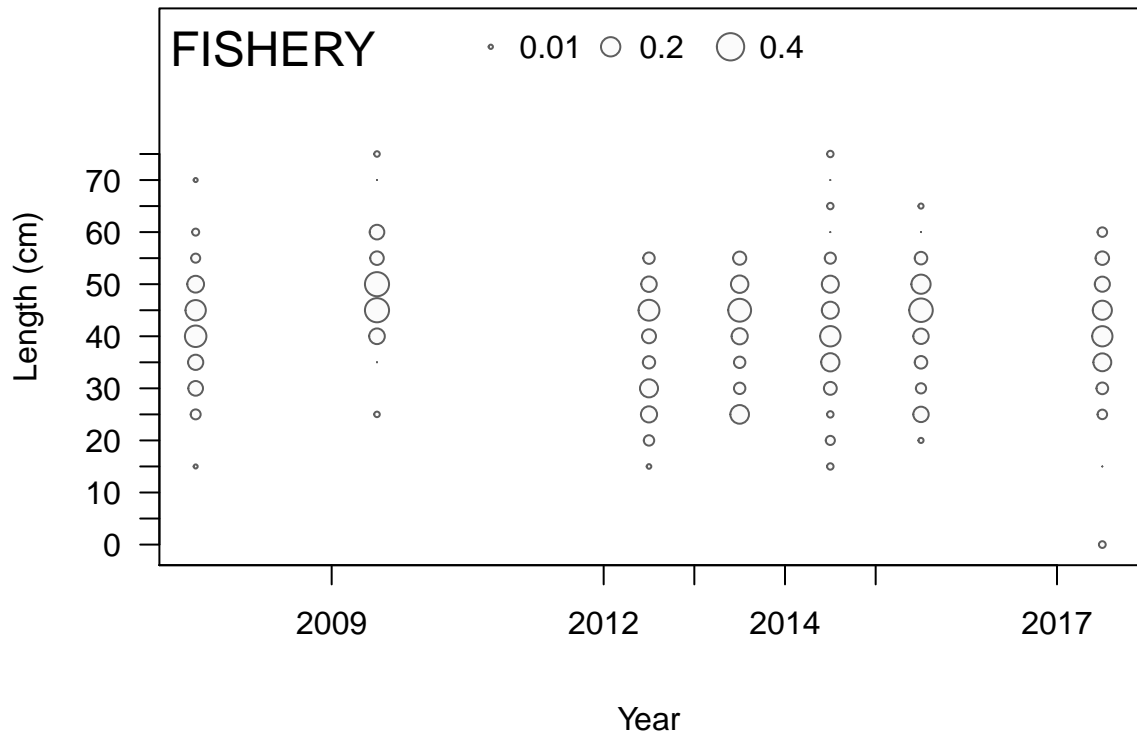




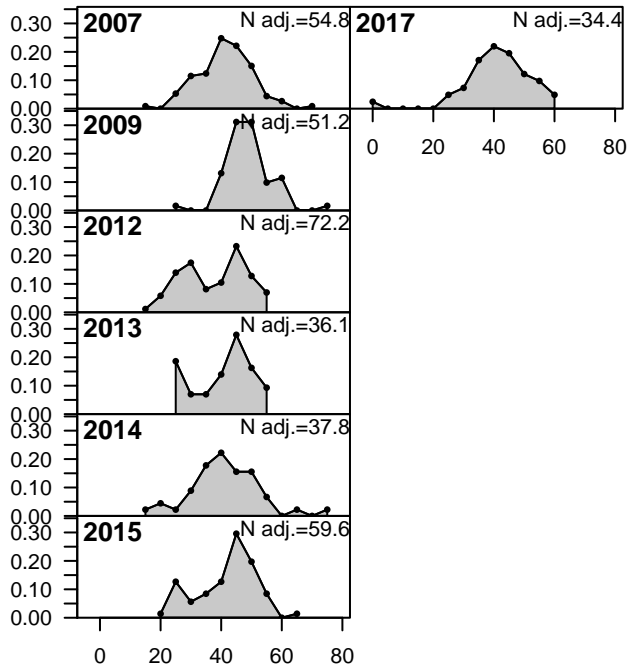
FISHERY

Sum of N adj.=346.3

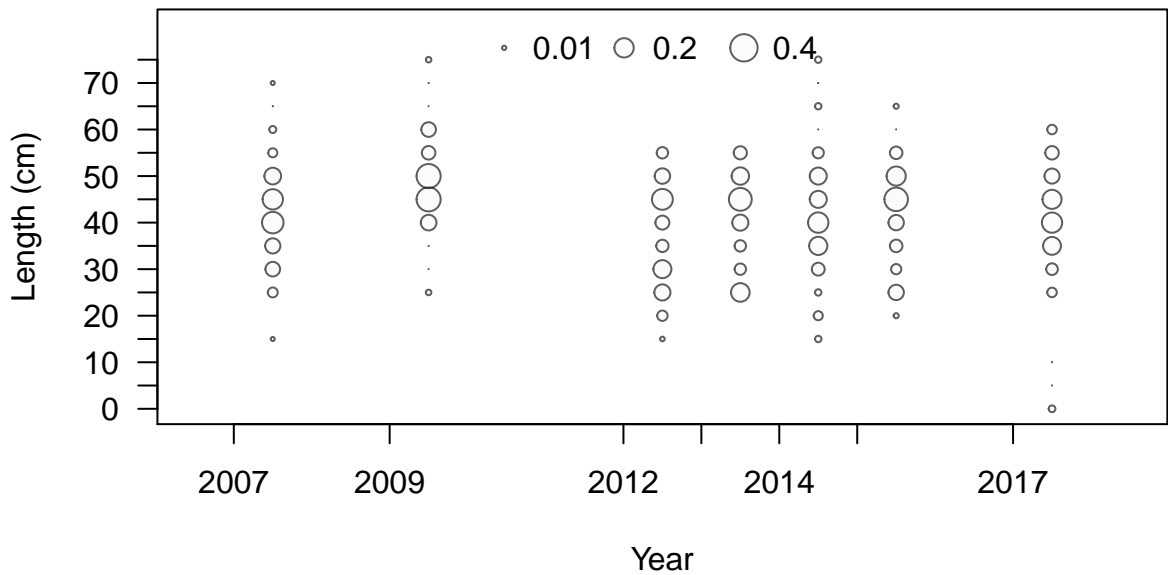




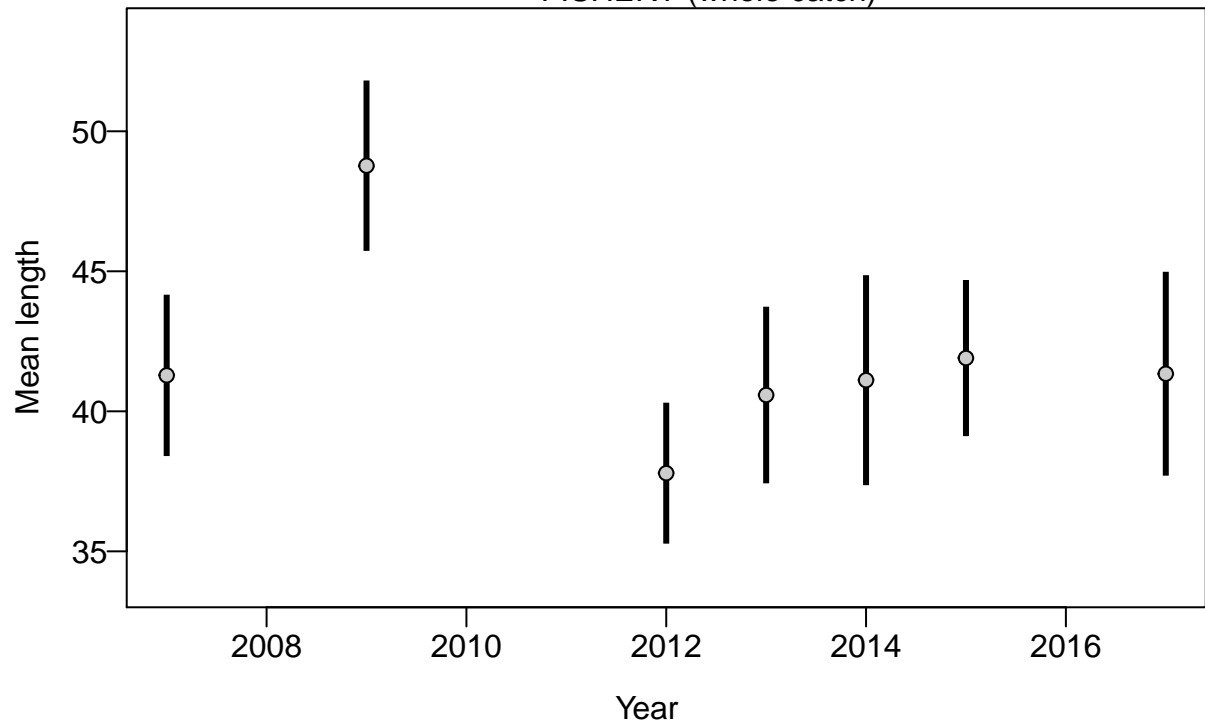
Proportion



Length (cm)

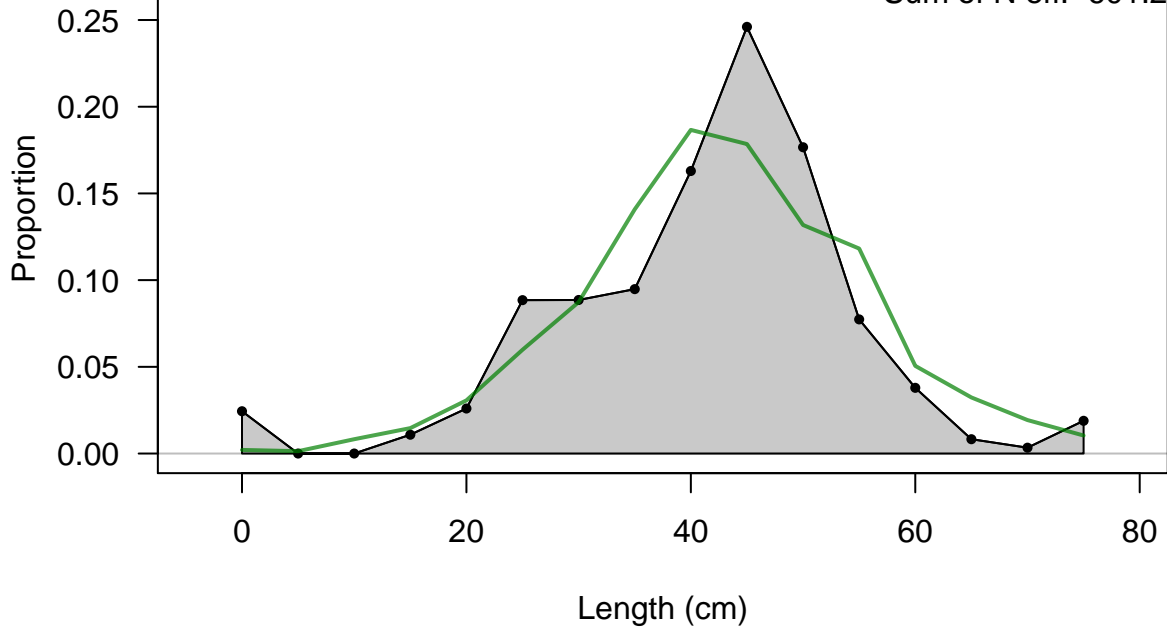


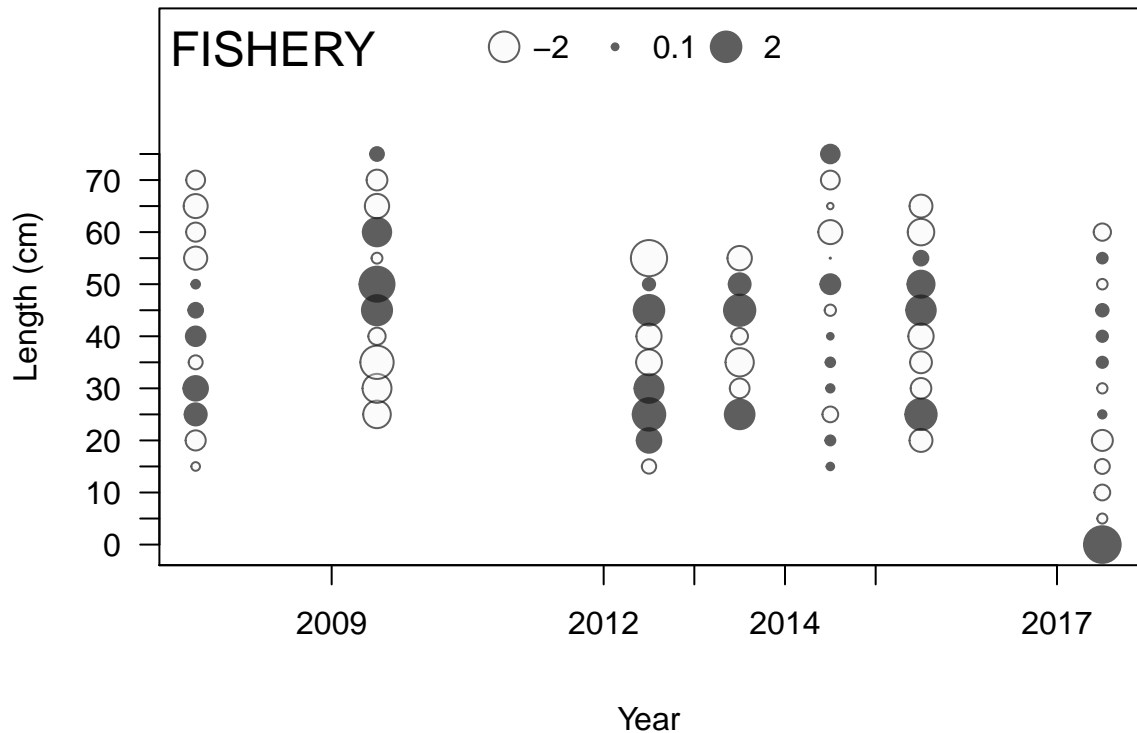
FISHERY (whole catch)



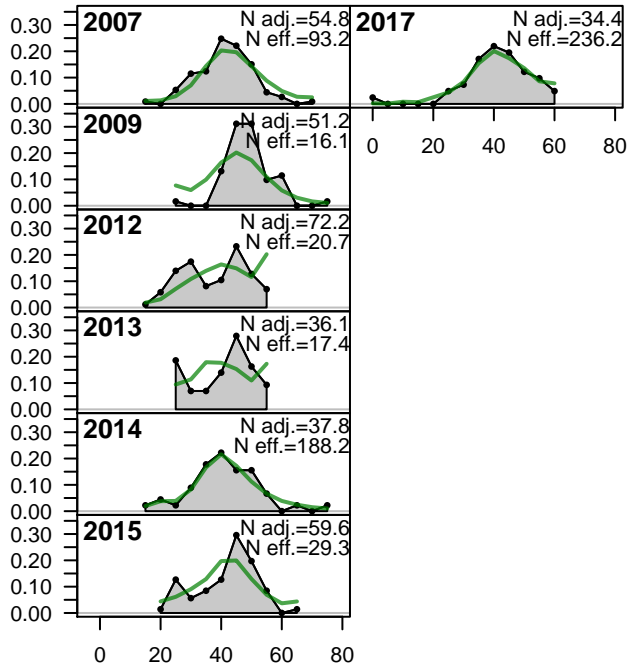
FISHERY

Sum of N adj.=346.3
Sum of N eff.=601.2

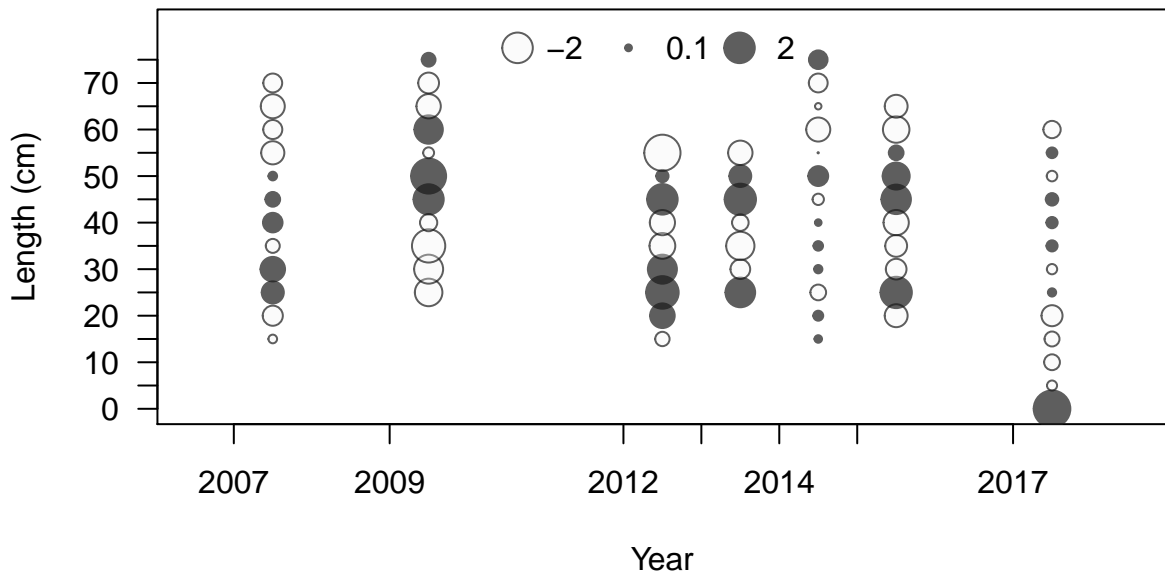




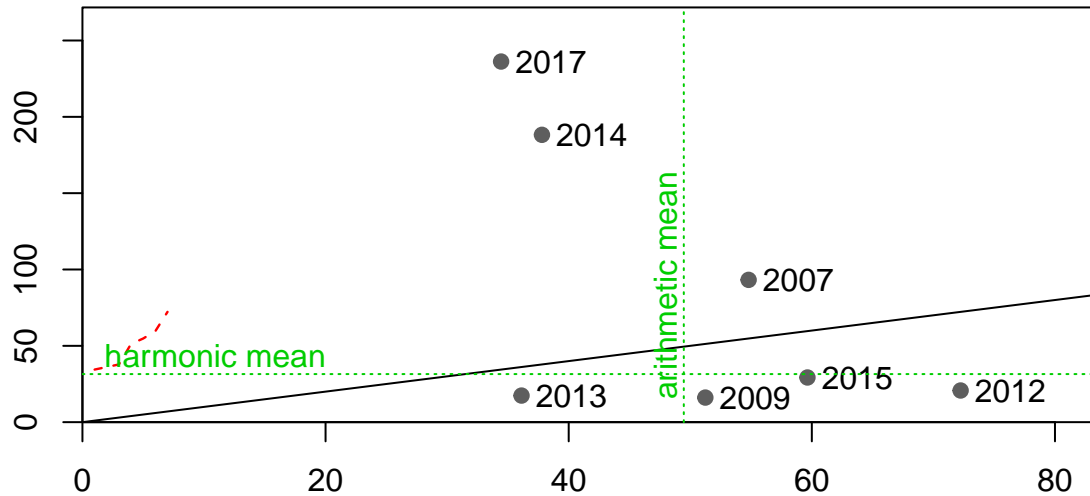
Proportion



Length (cm)

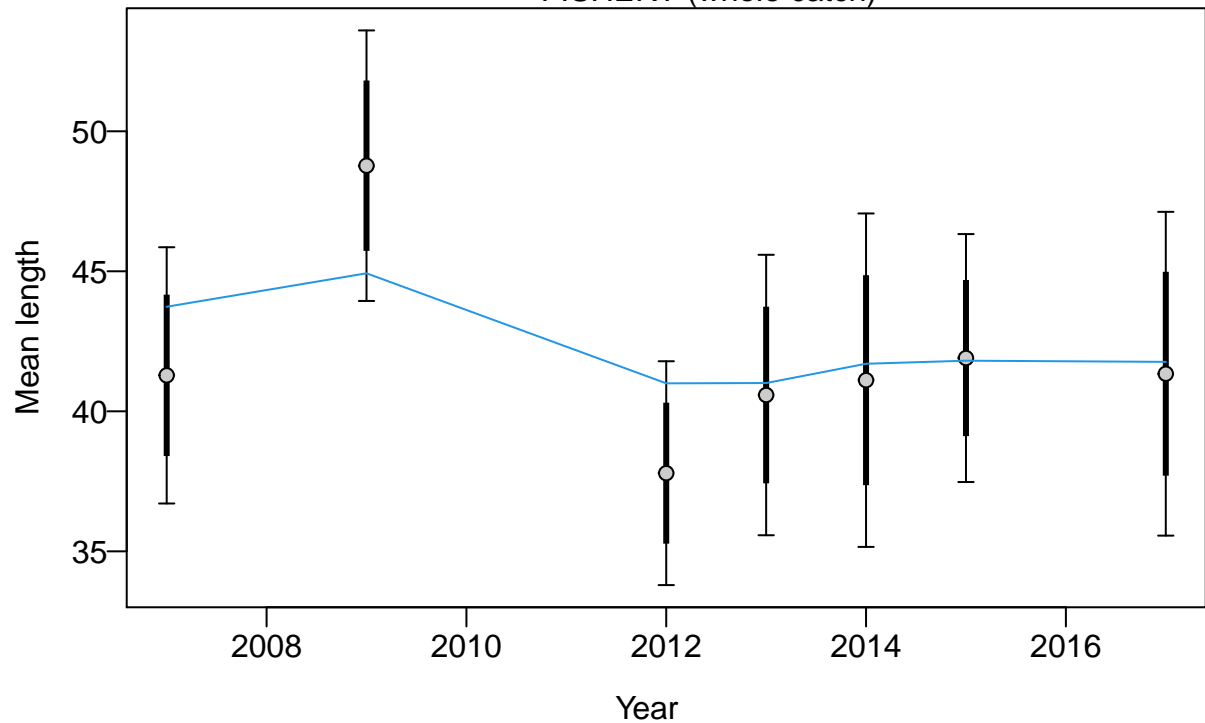


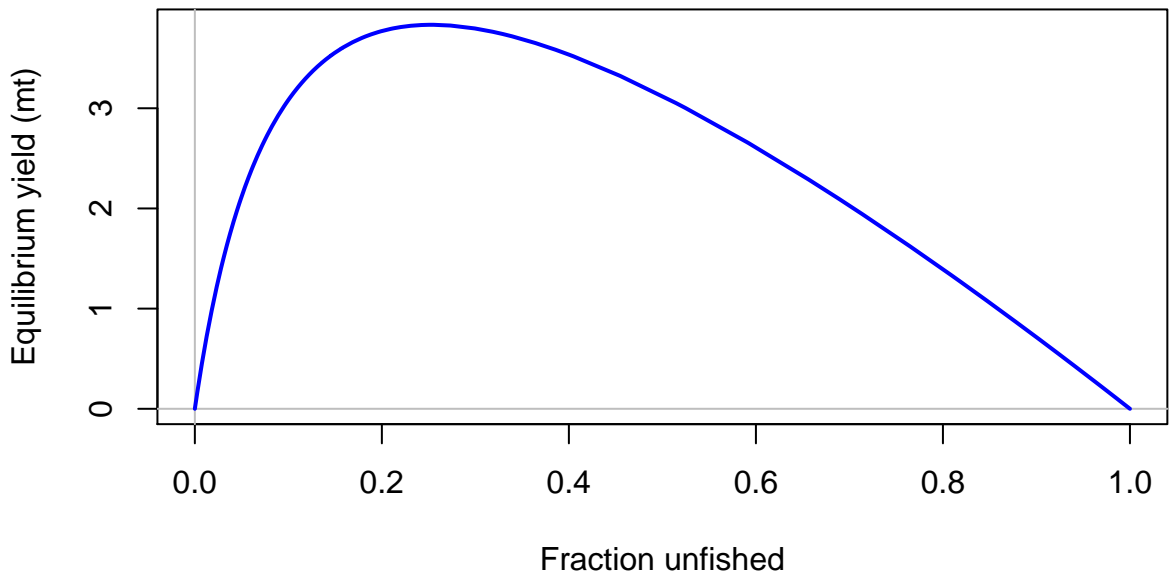
Effective sample size

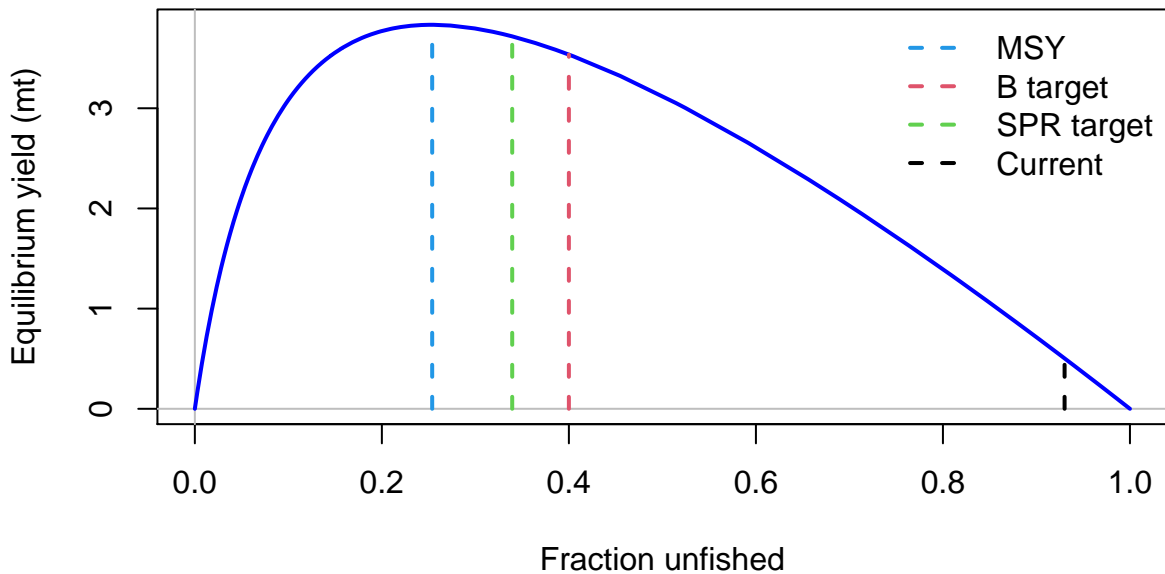


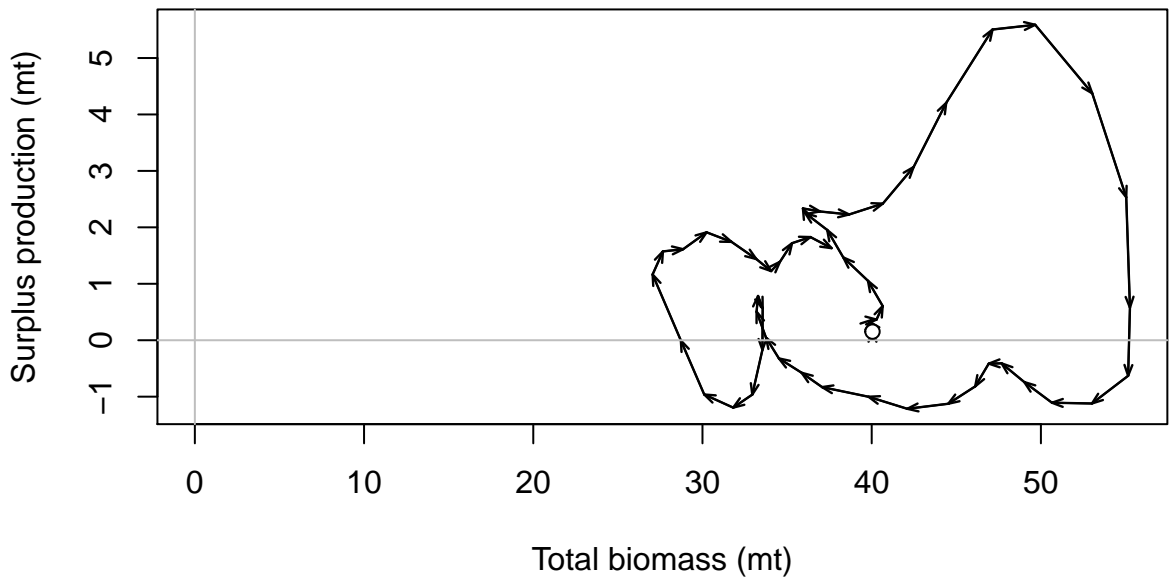
Observed sample size

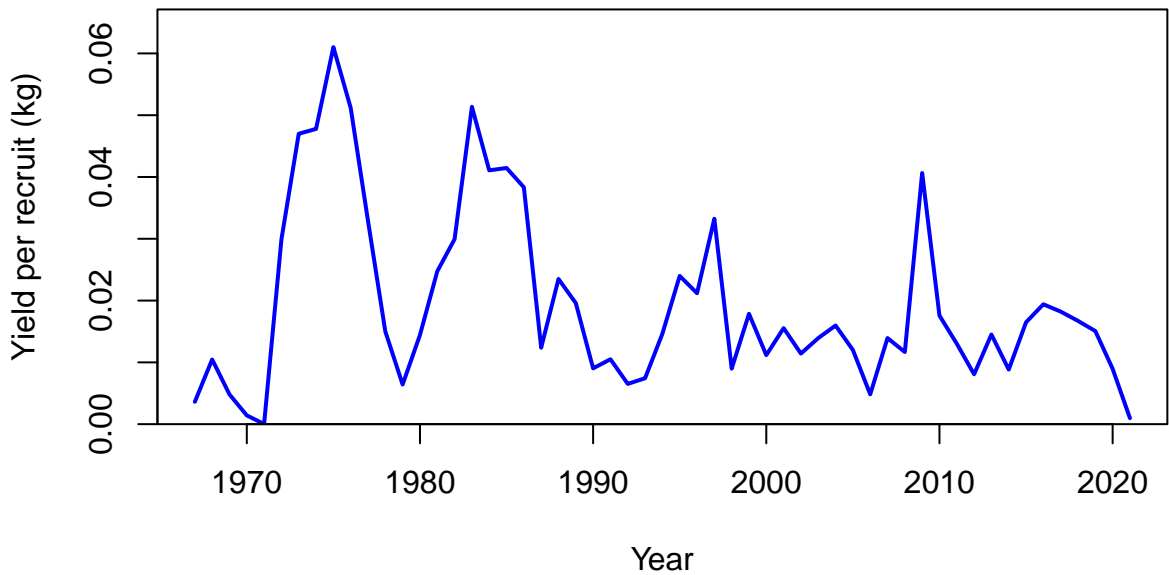
FISHERY (whole catch)

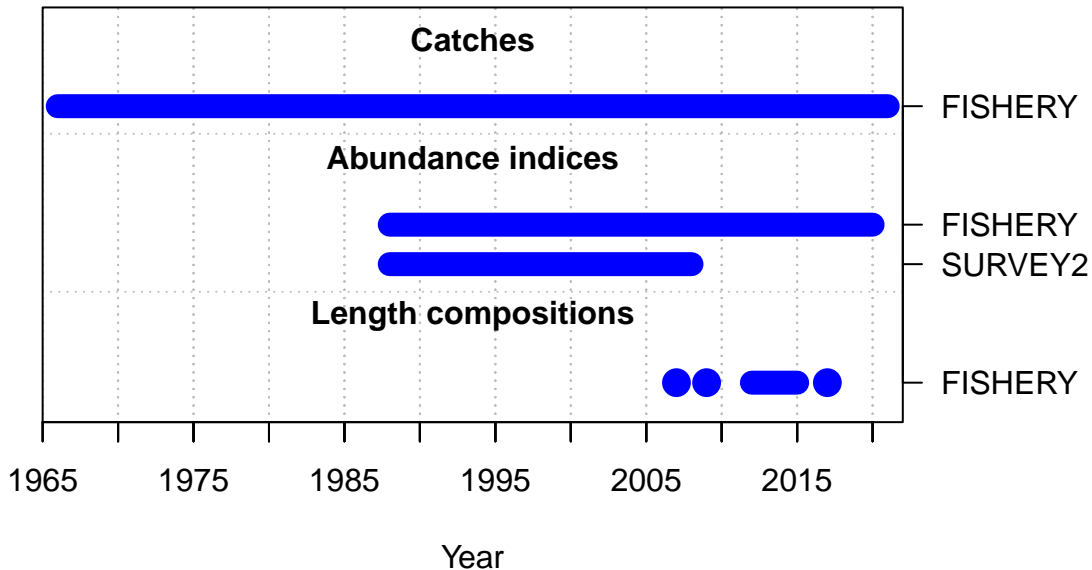


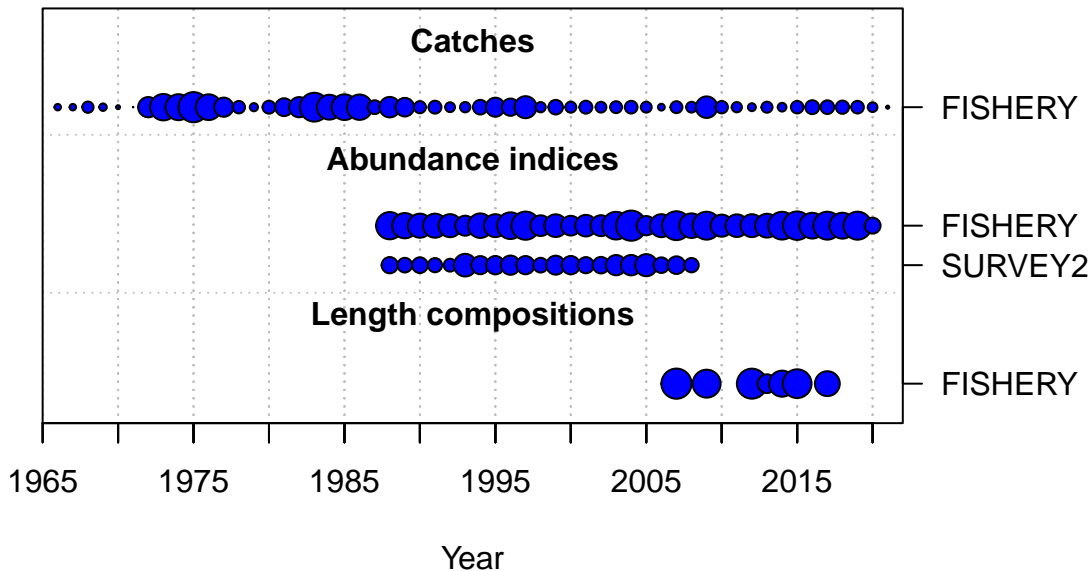








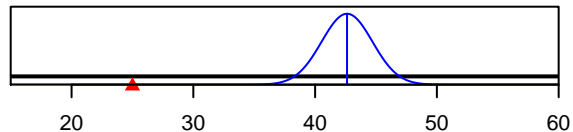




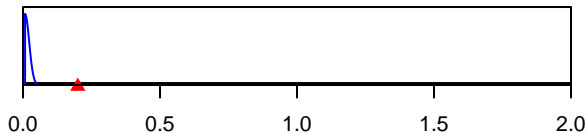
SR_LN(R0)



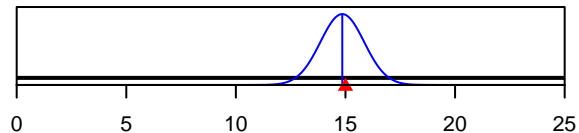
Size_inflection_FISHERY(1)



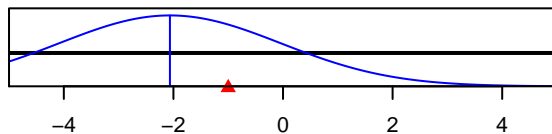
InitF_seas_1flt_1FISHERY



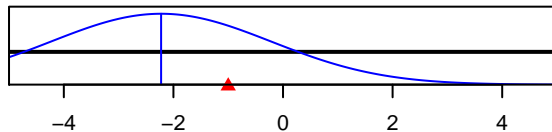
Size_95%width_FISHERY(1)



LnQ_base_FISHERY(1)



LnQ_base_SURVEY2(2)



Density

Parameter value