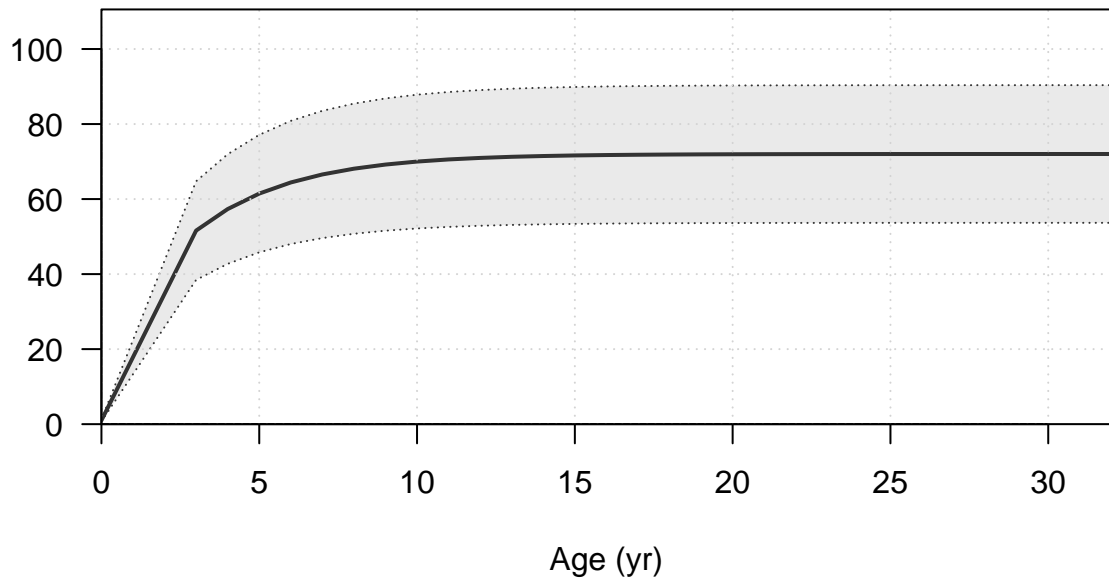
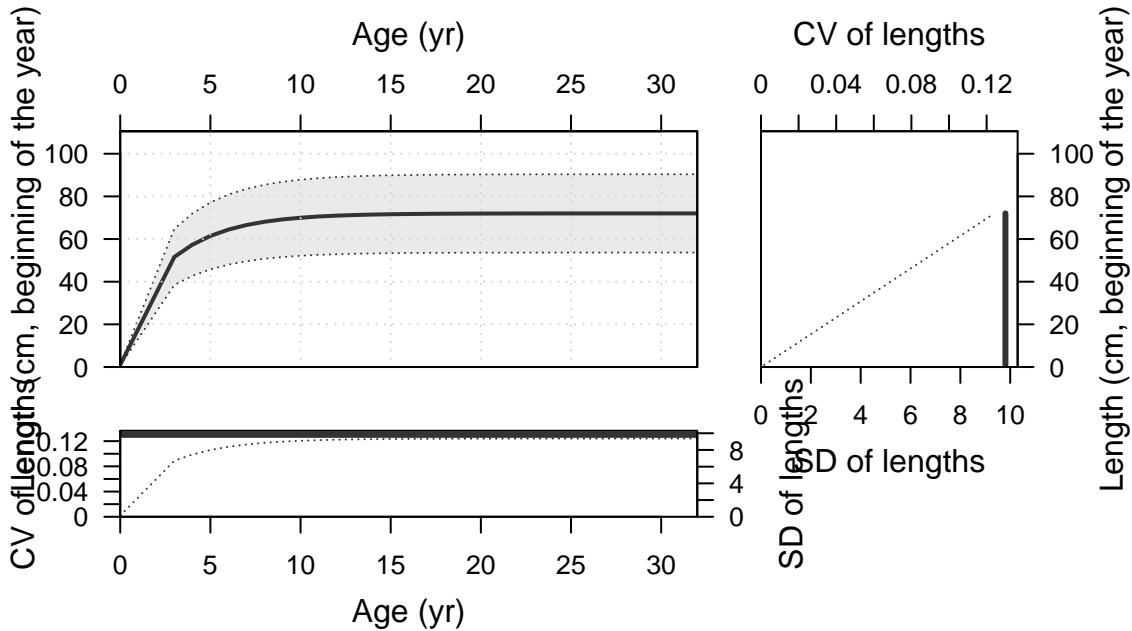
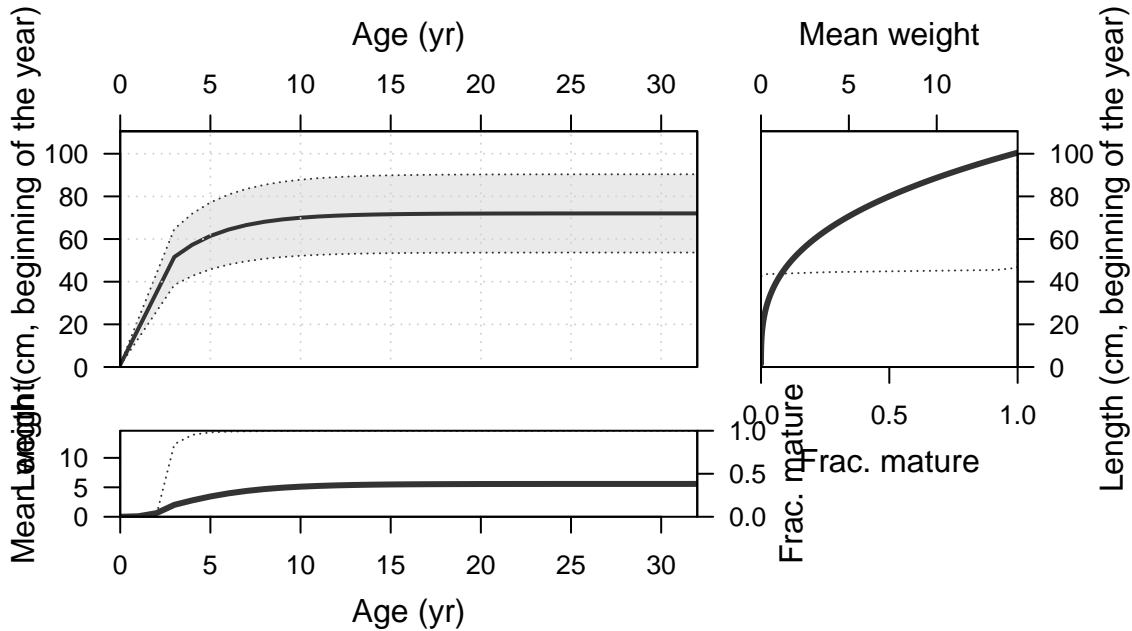


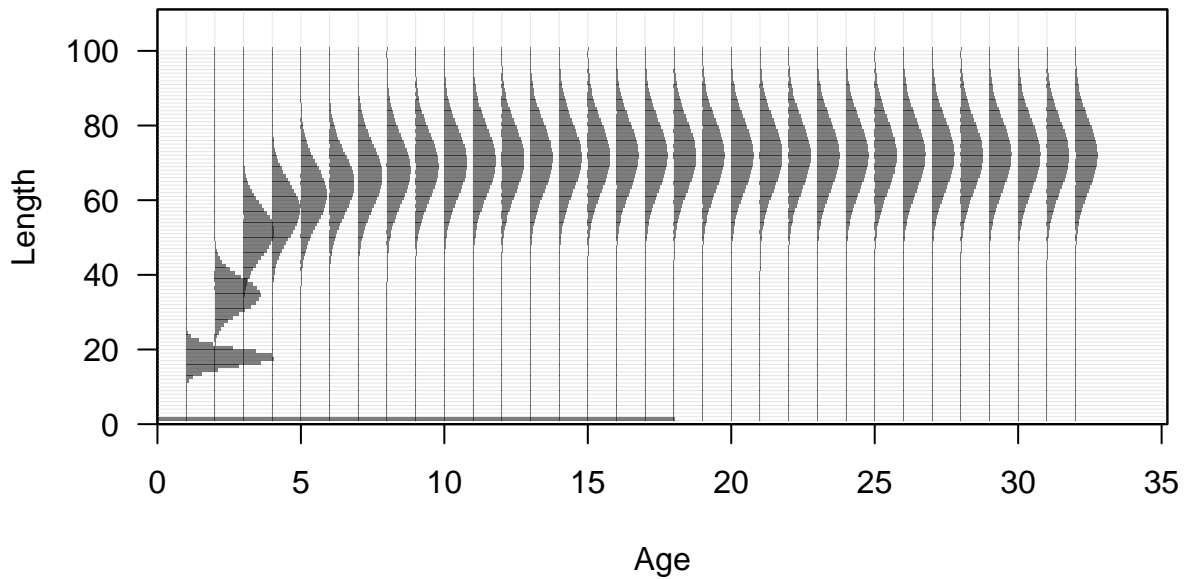
Plots created using the 'r4ss' package in R
Stock Synthesis version: 3.30.19.0
StartTime: Thu Jul 07 07:53:10 2022
Data_File: data.ss
Control_File: control.ss

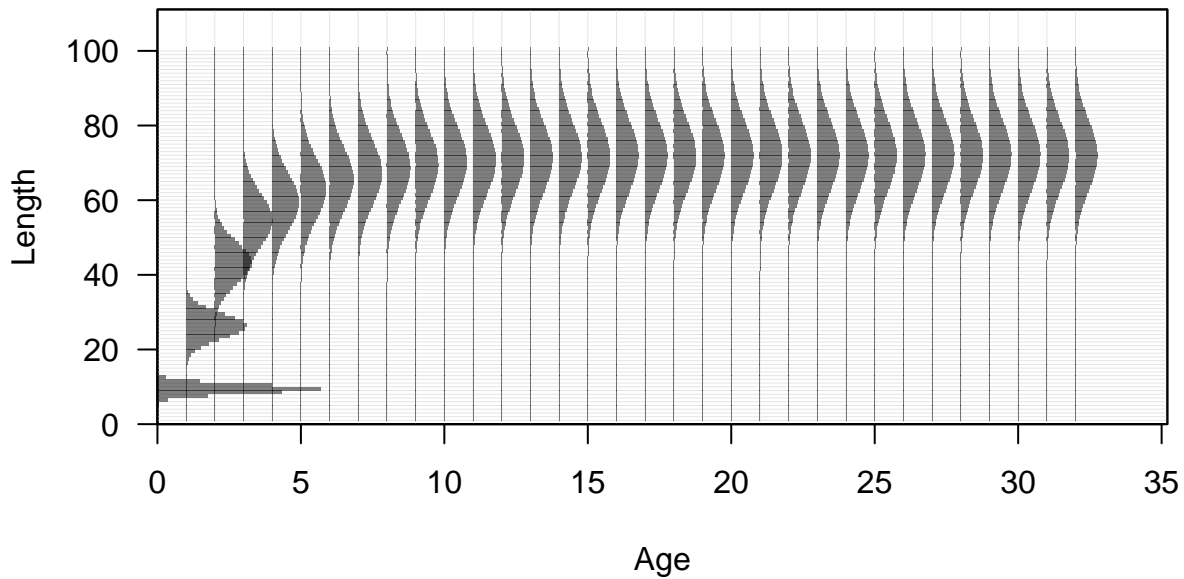
Length (cm, beginning of the year)

















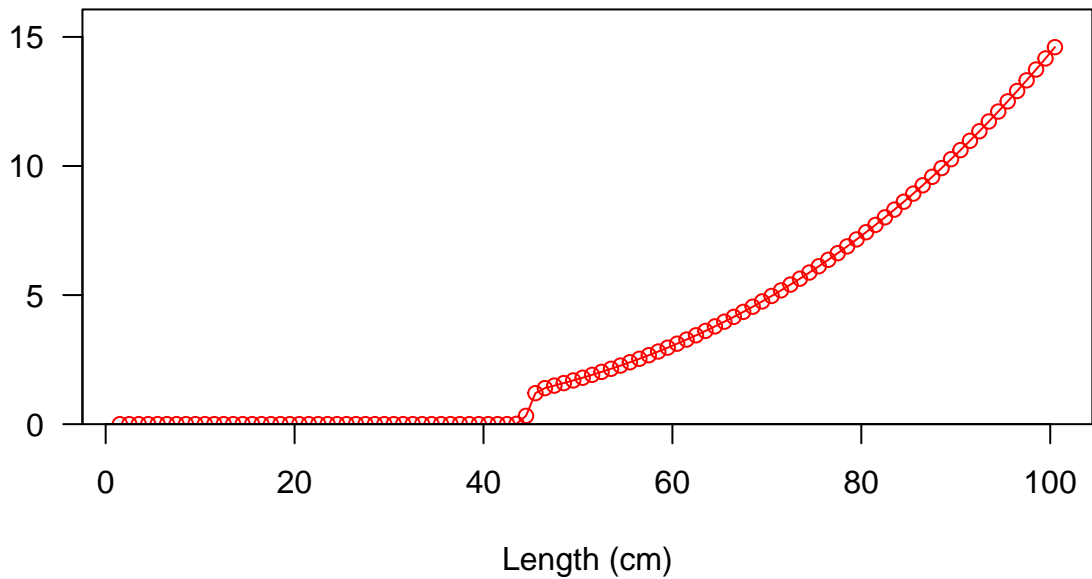
Fecundity



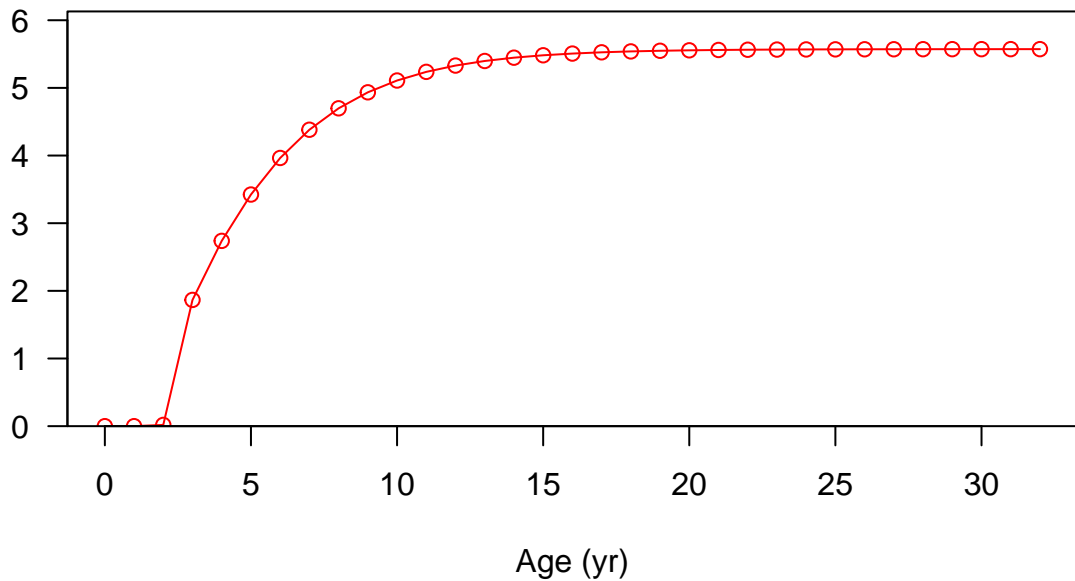
Fecundity



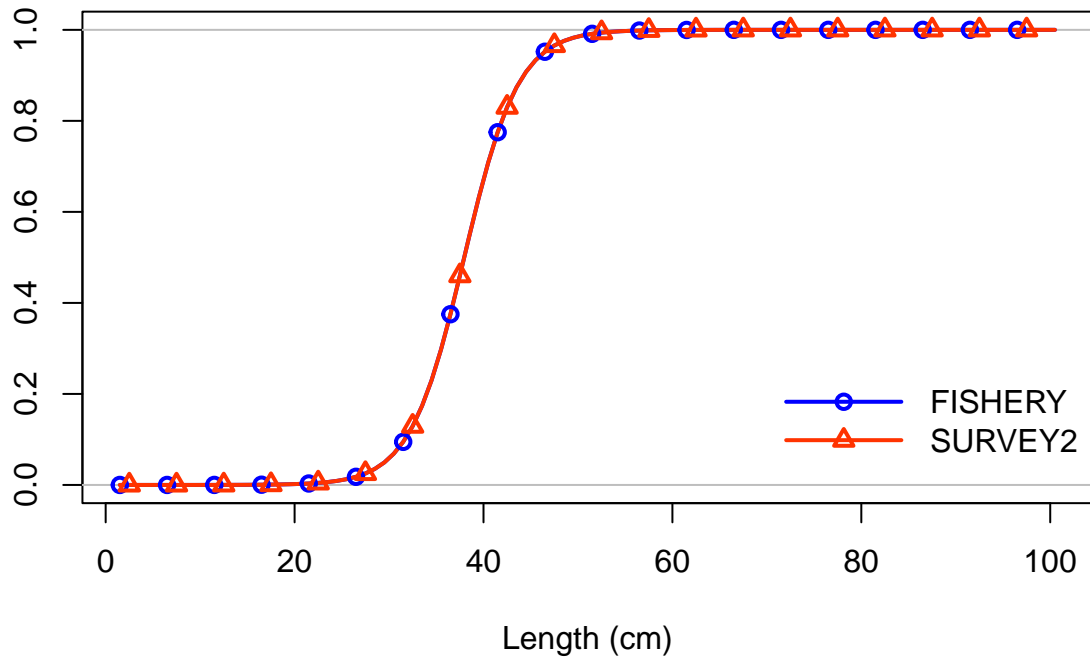
Spawning output



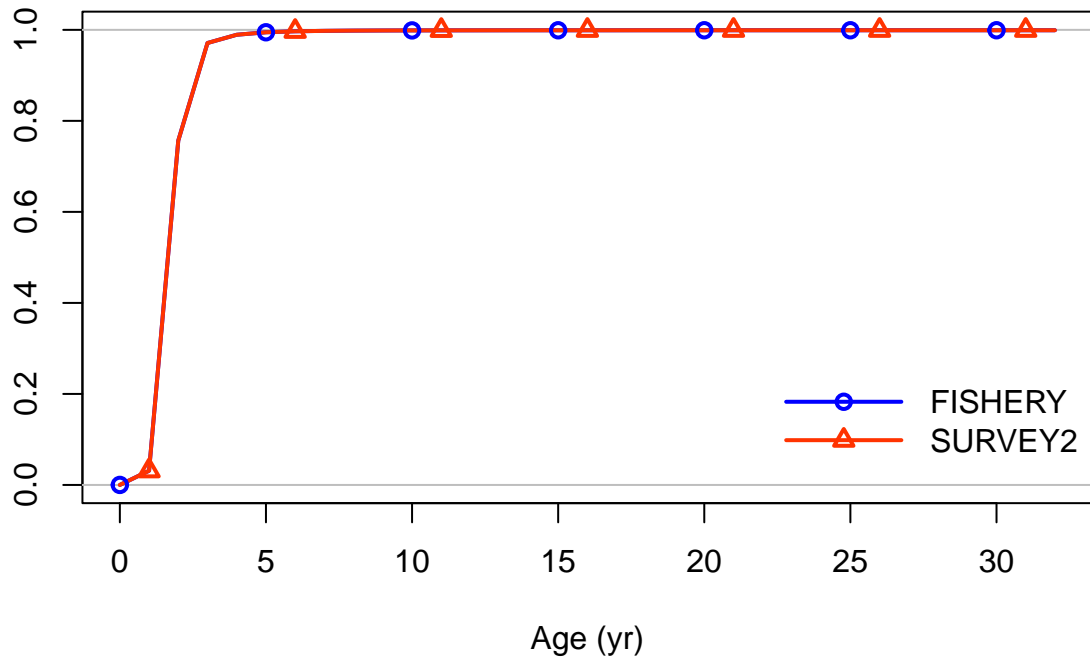
Spawning output



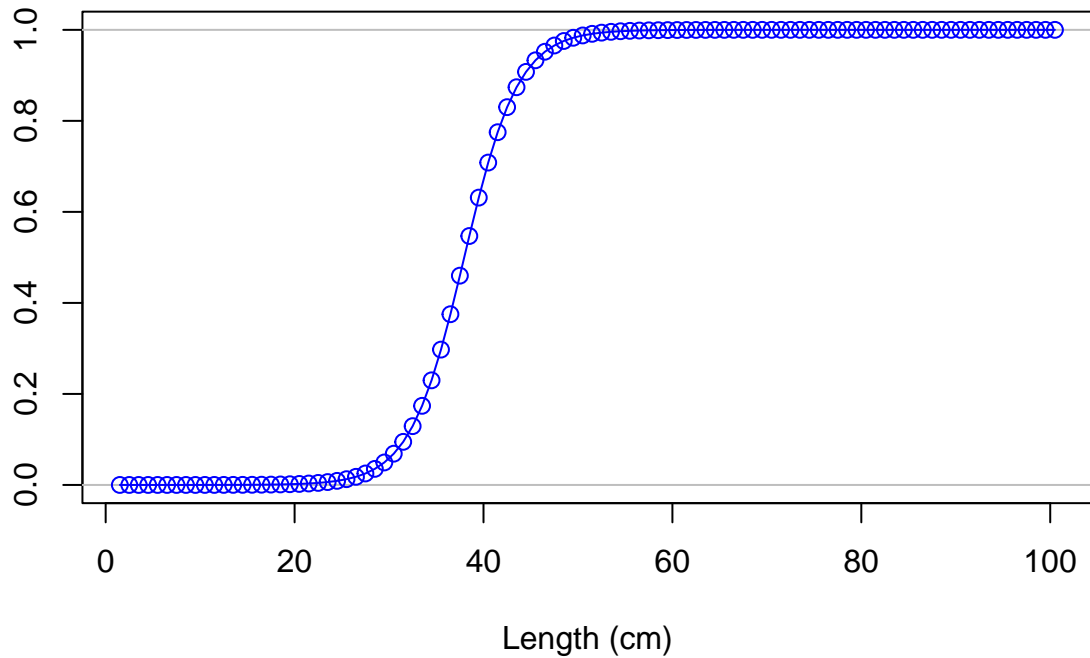
Selectivity



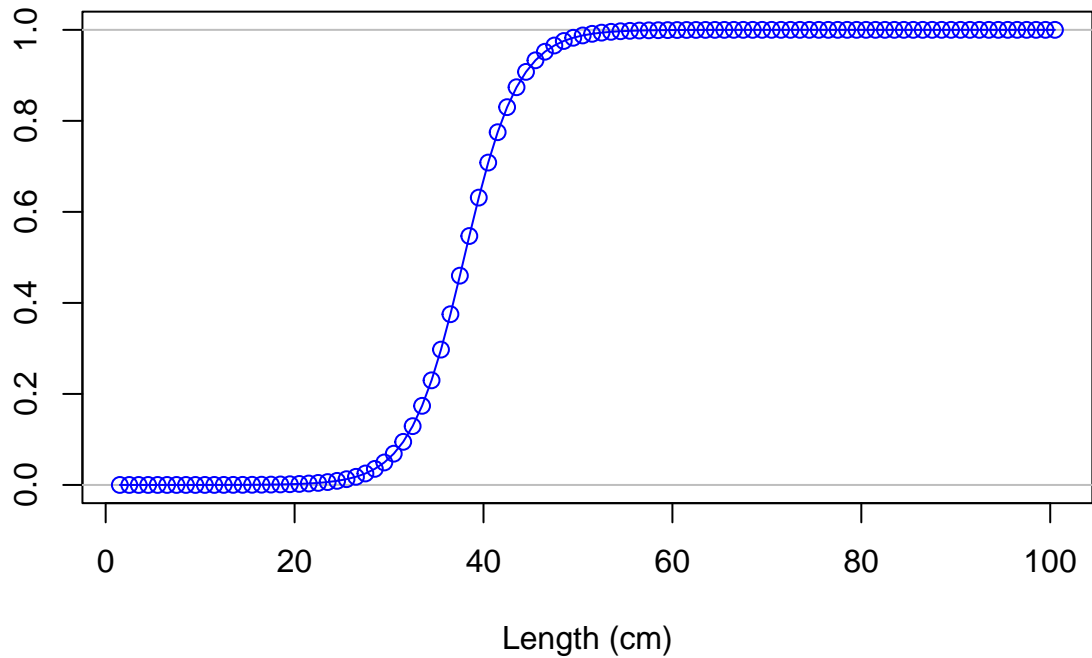
Selectivity

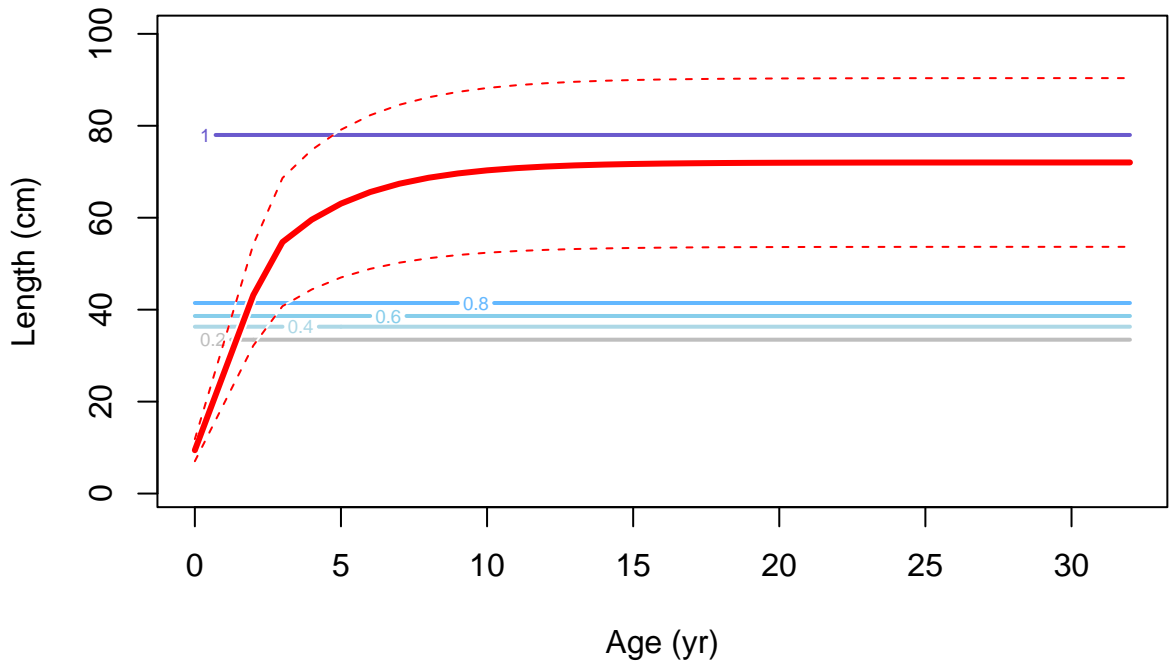


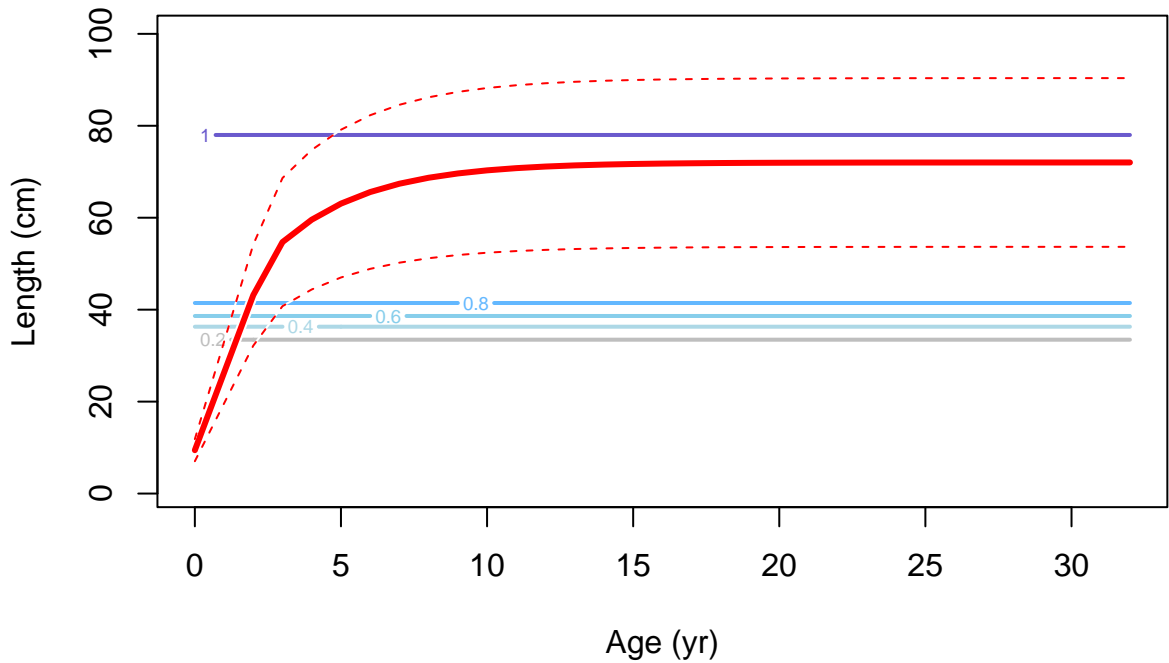
Selectivity

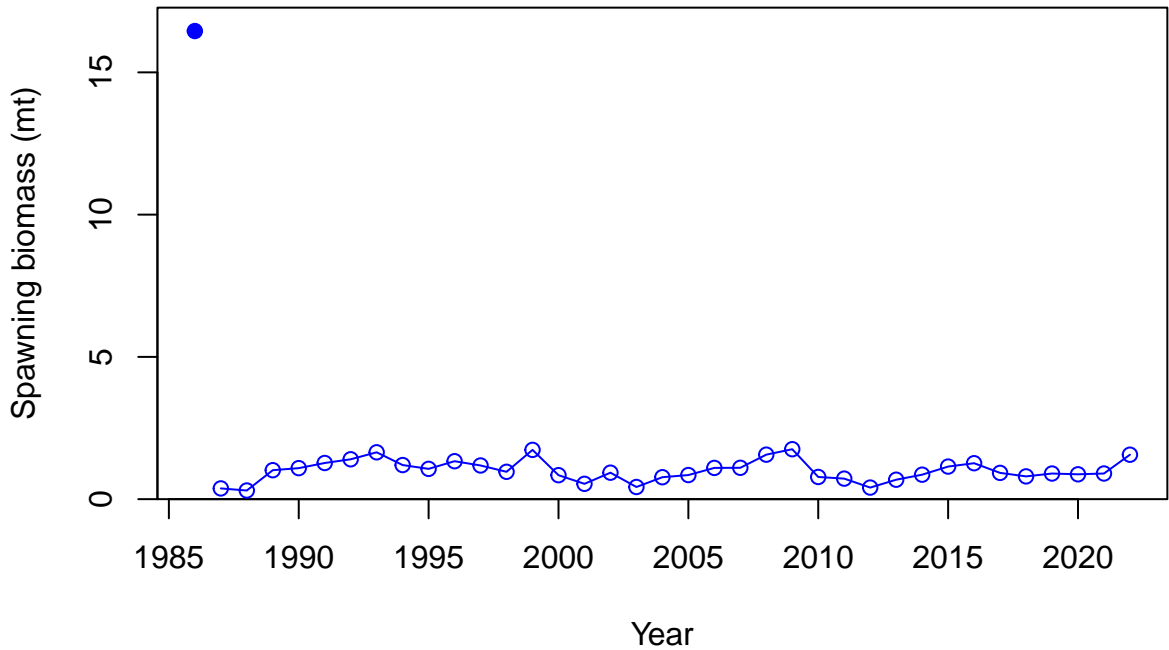


Selectivity

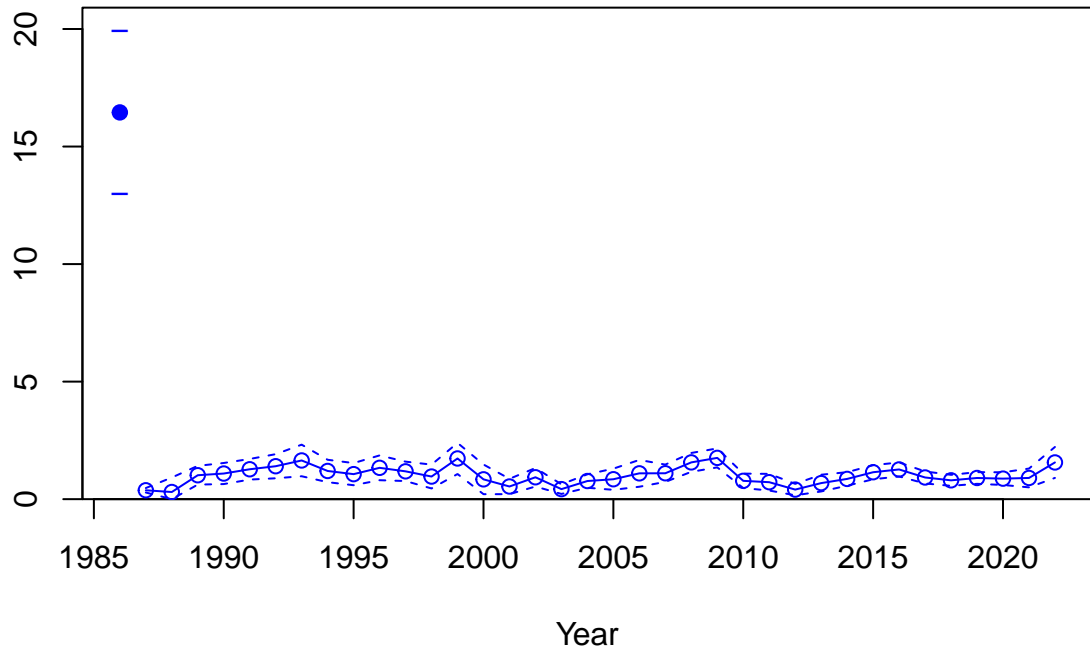




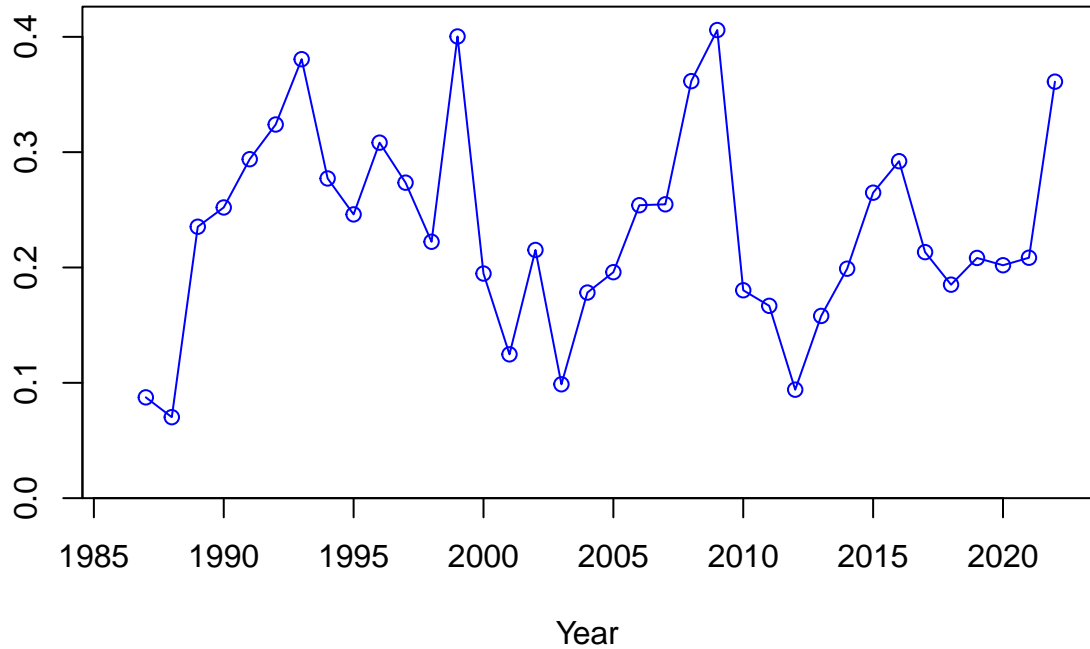




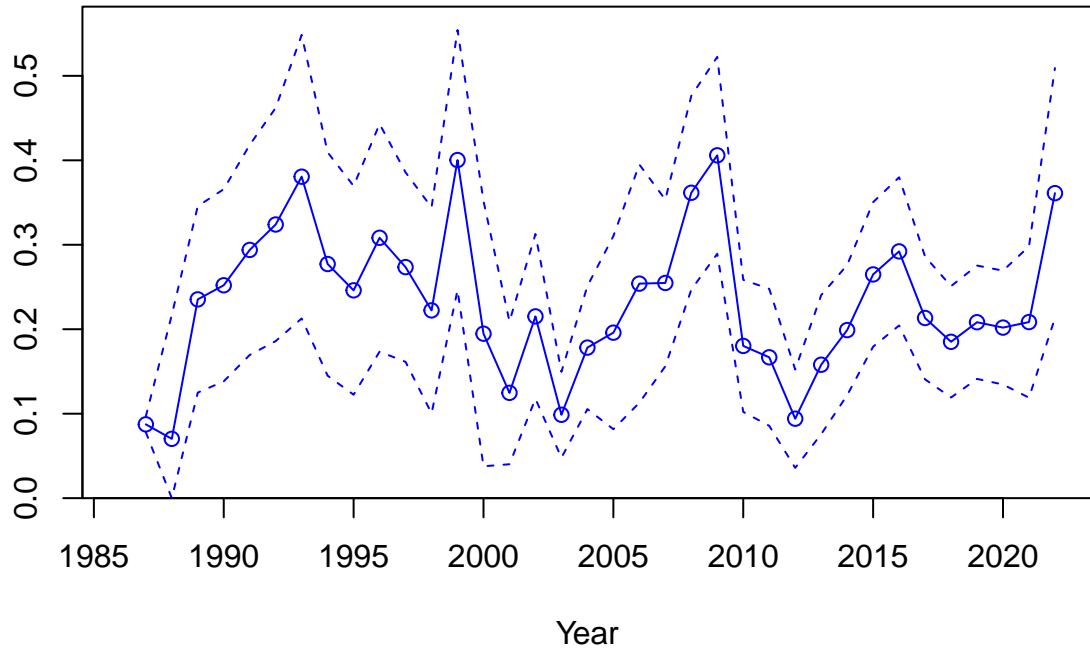
Spawning biomass (mt)

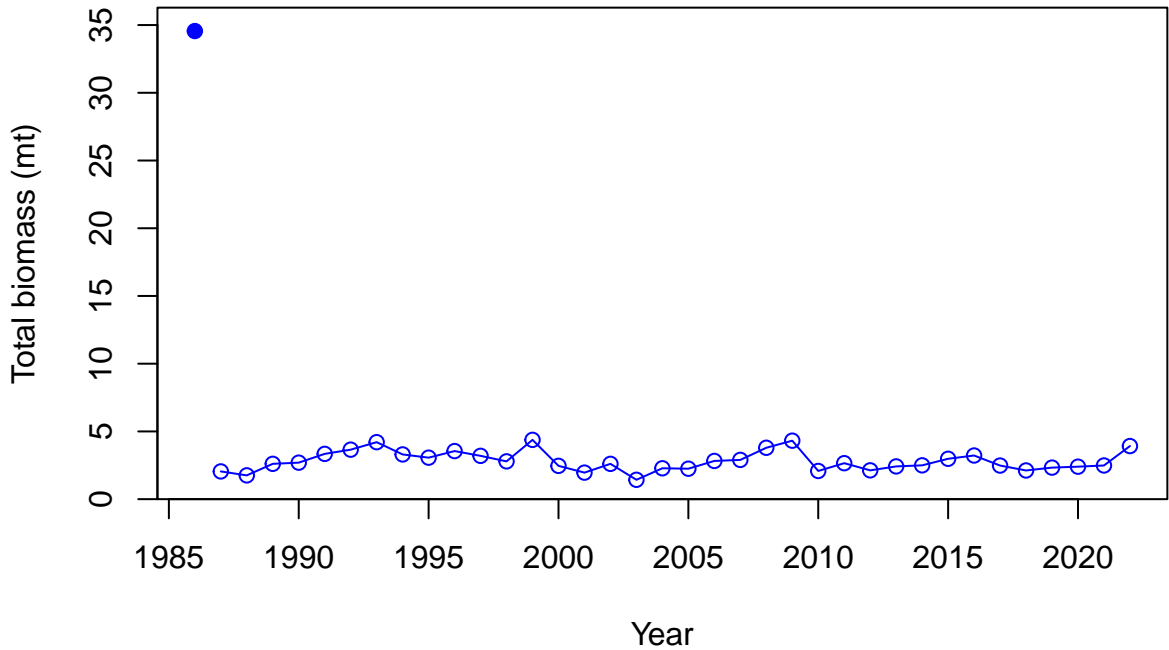


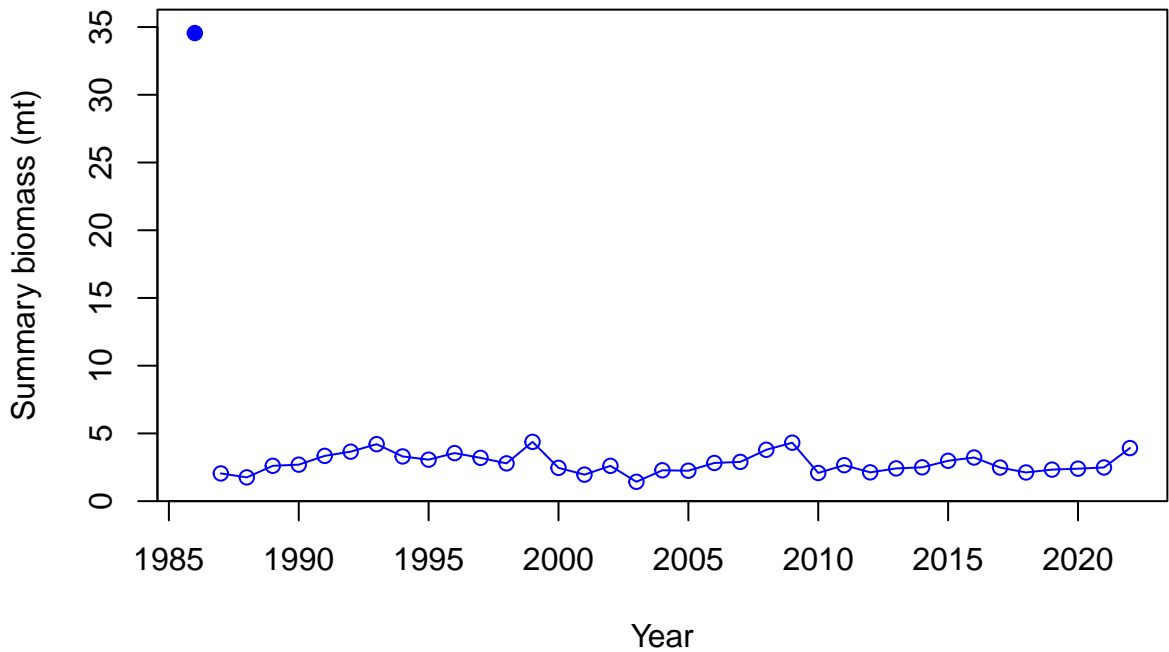
Relative spawning biomass: B/B_{MSY}

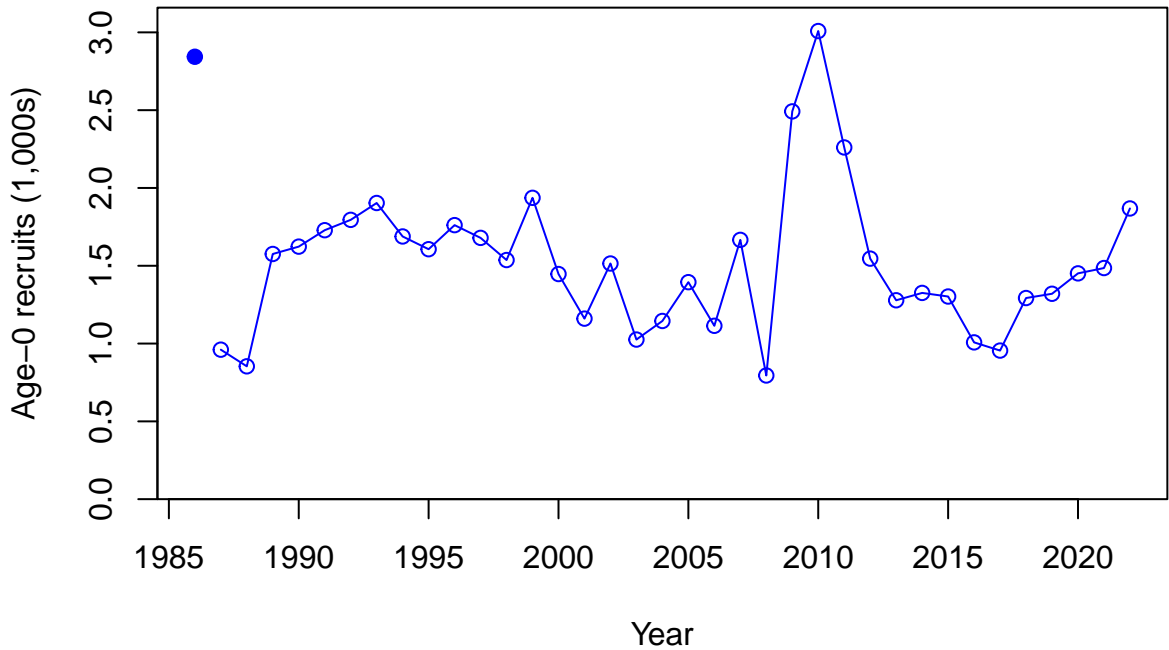


Relative spawning biomass: B/B_{MSY}

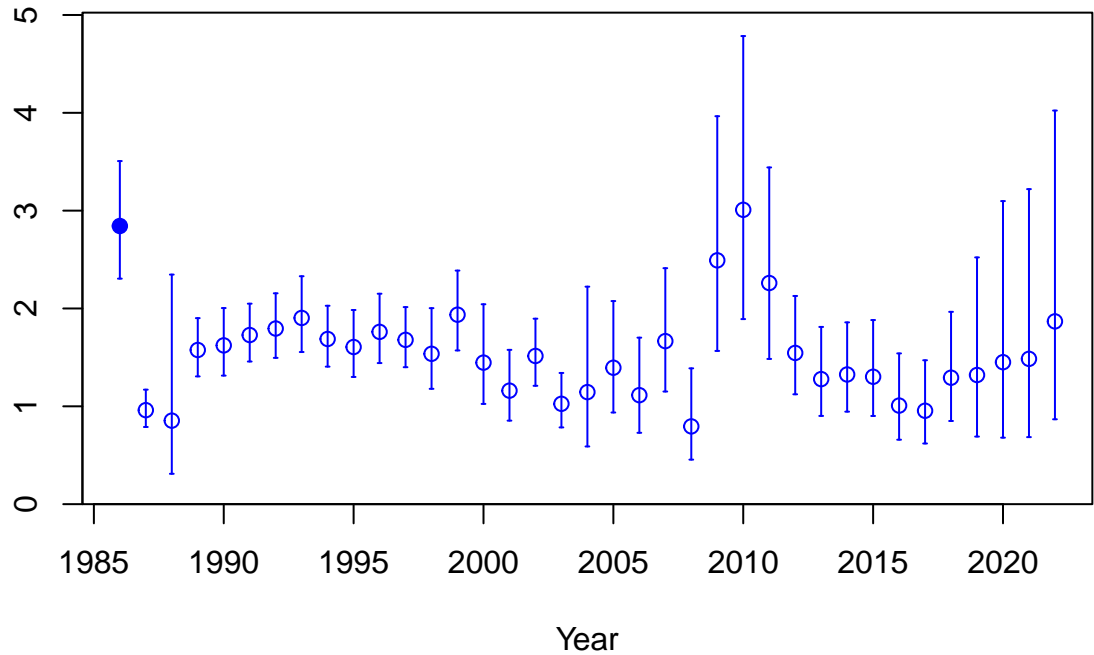




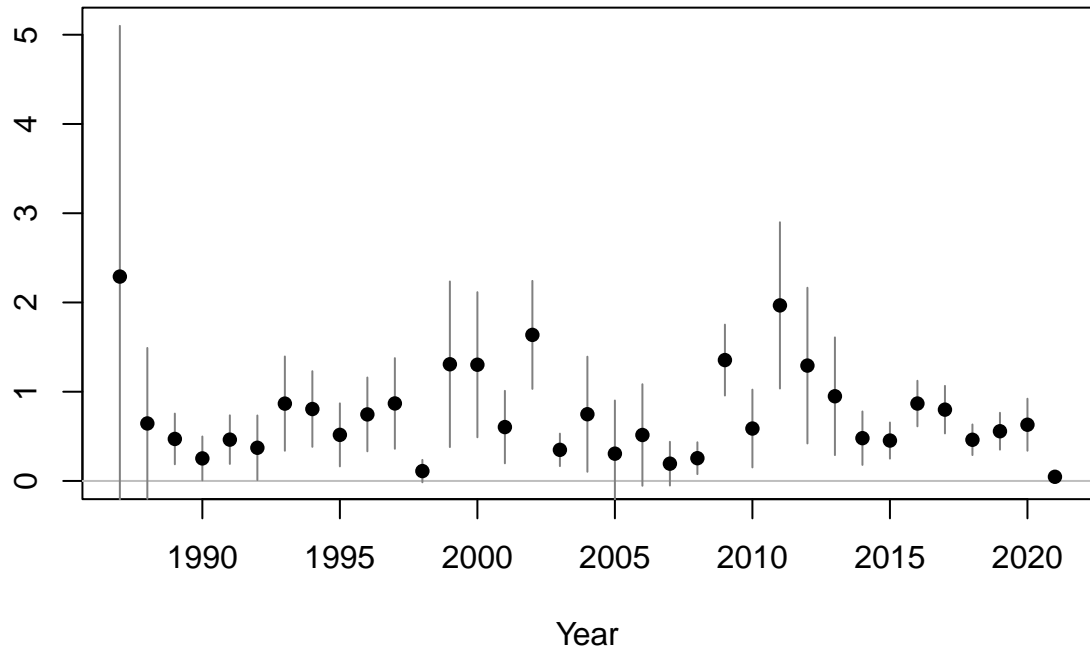


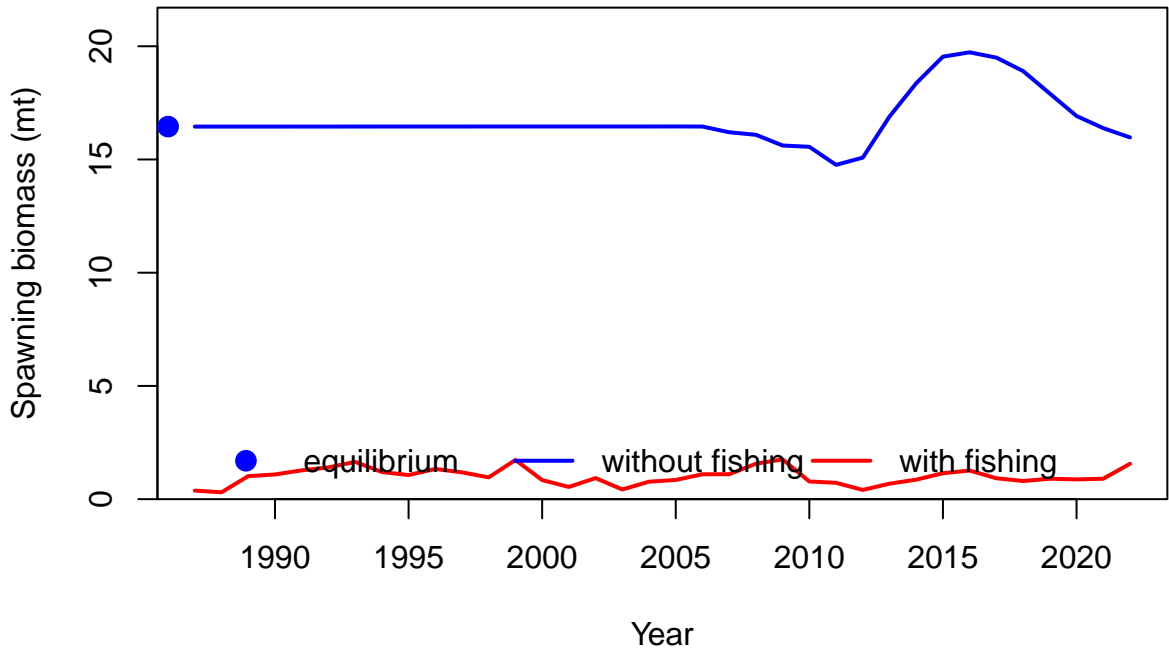


Age-0 recruits (1,000s)

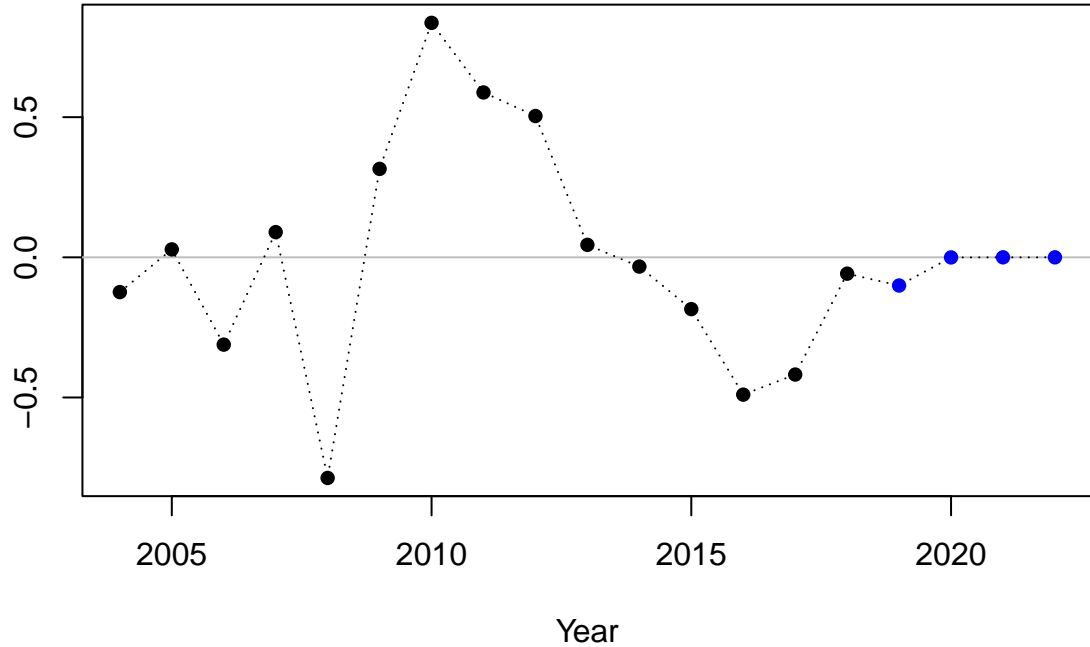


Summary Fishing Mortality





Log recruitment deviation



Log recruitment deviation

1.0
0.5
0.0
-0.5
-1.0

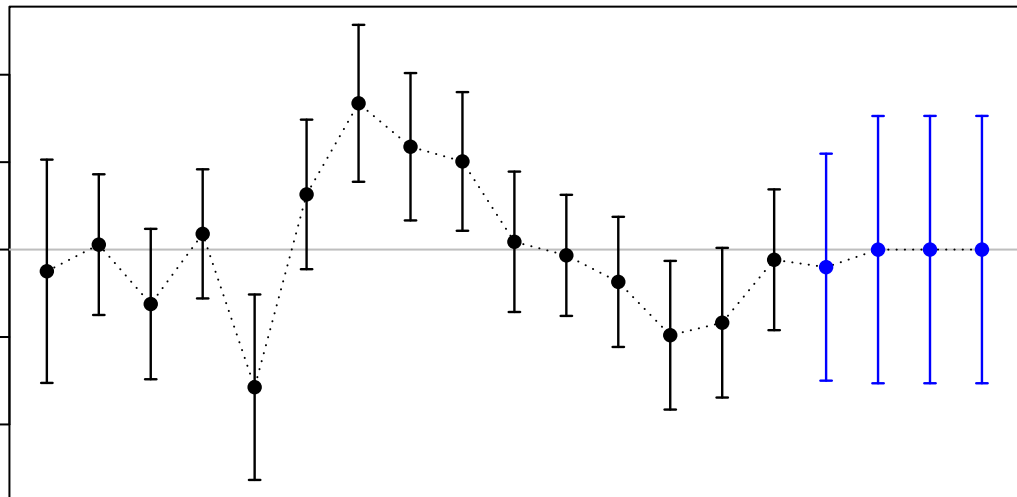
2005

2010

2015

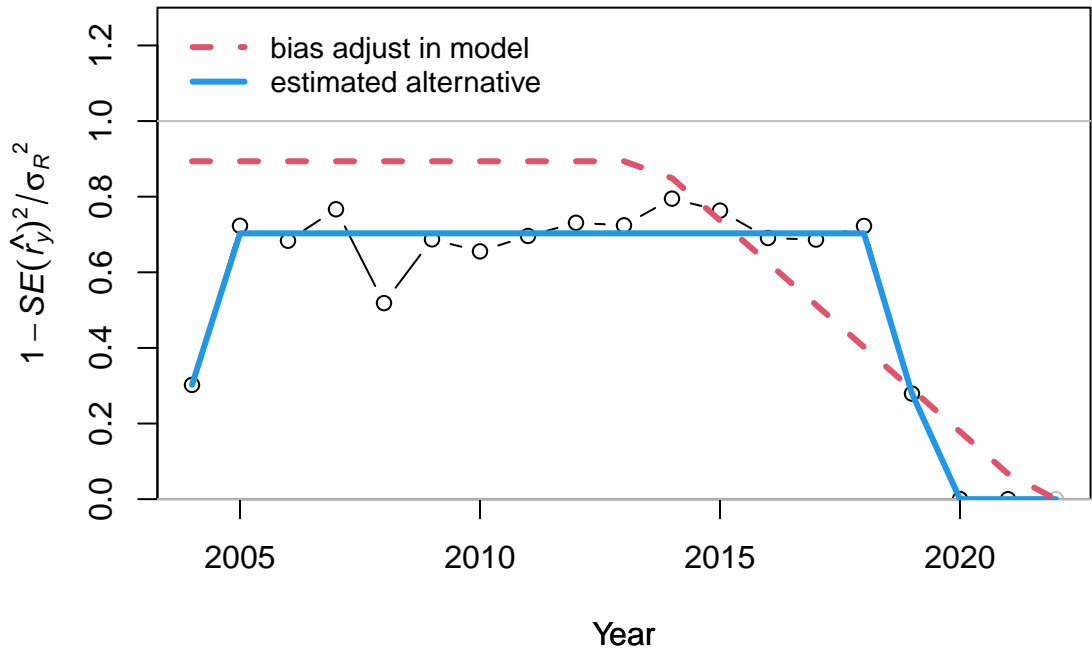
2020

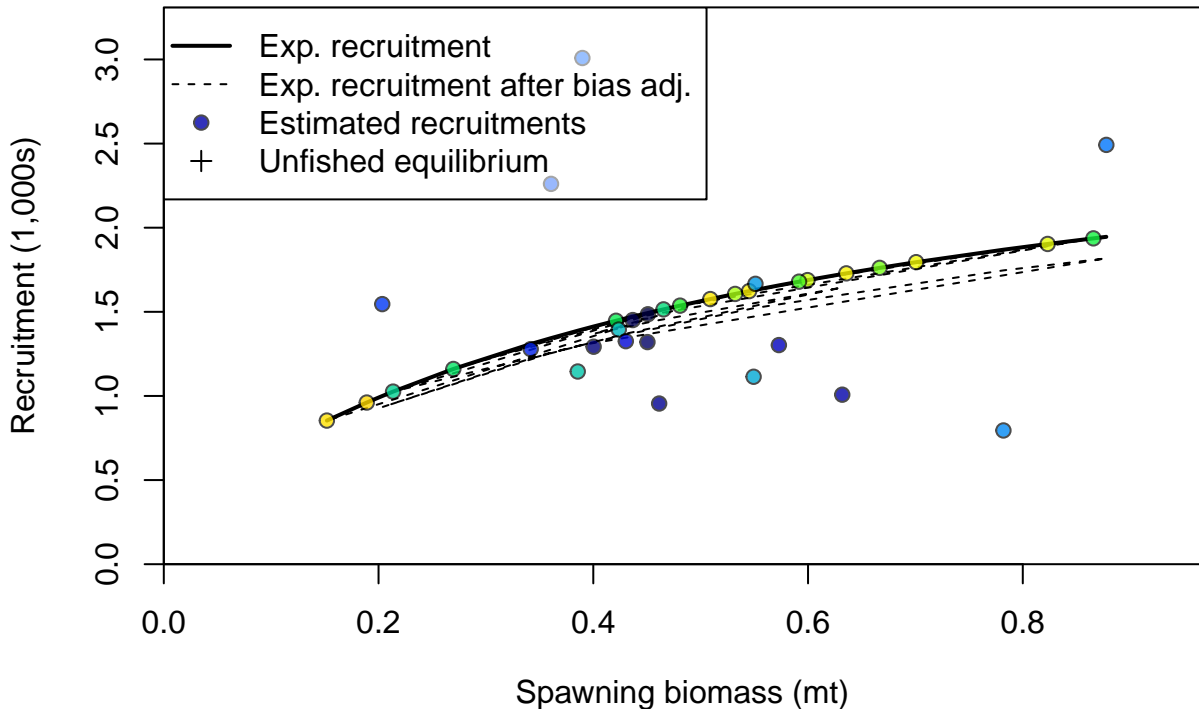
Year

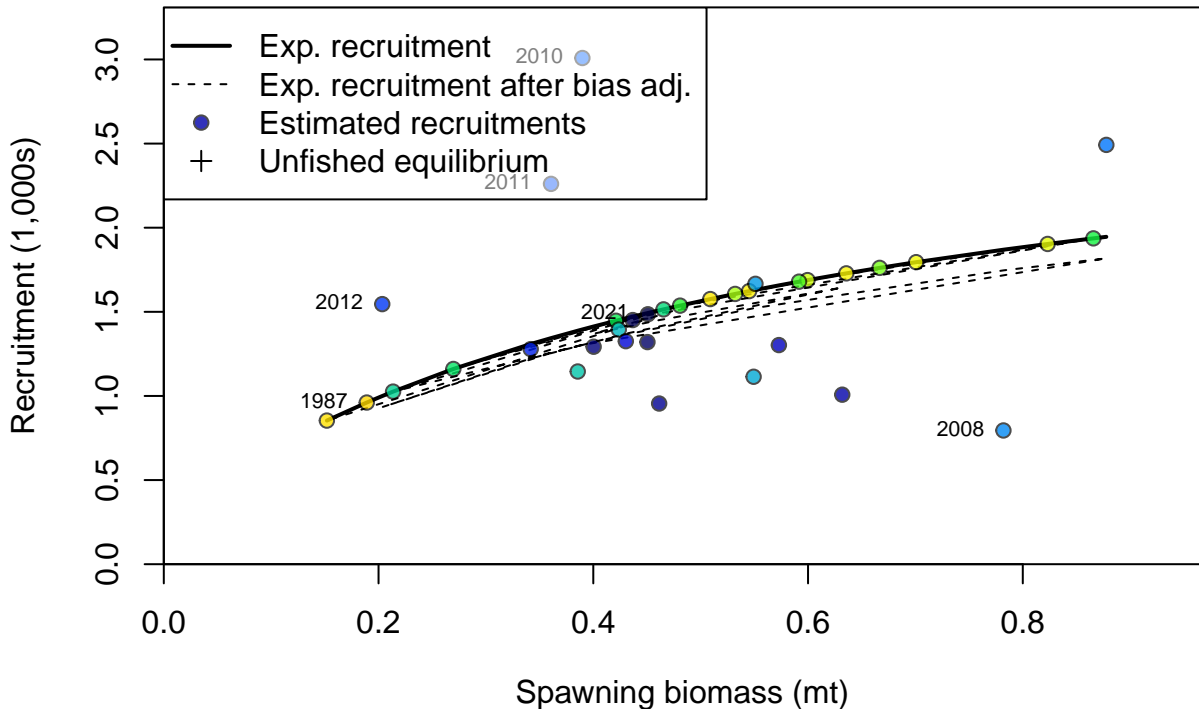


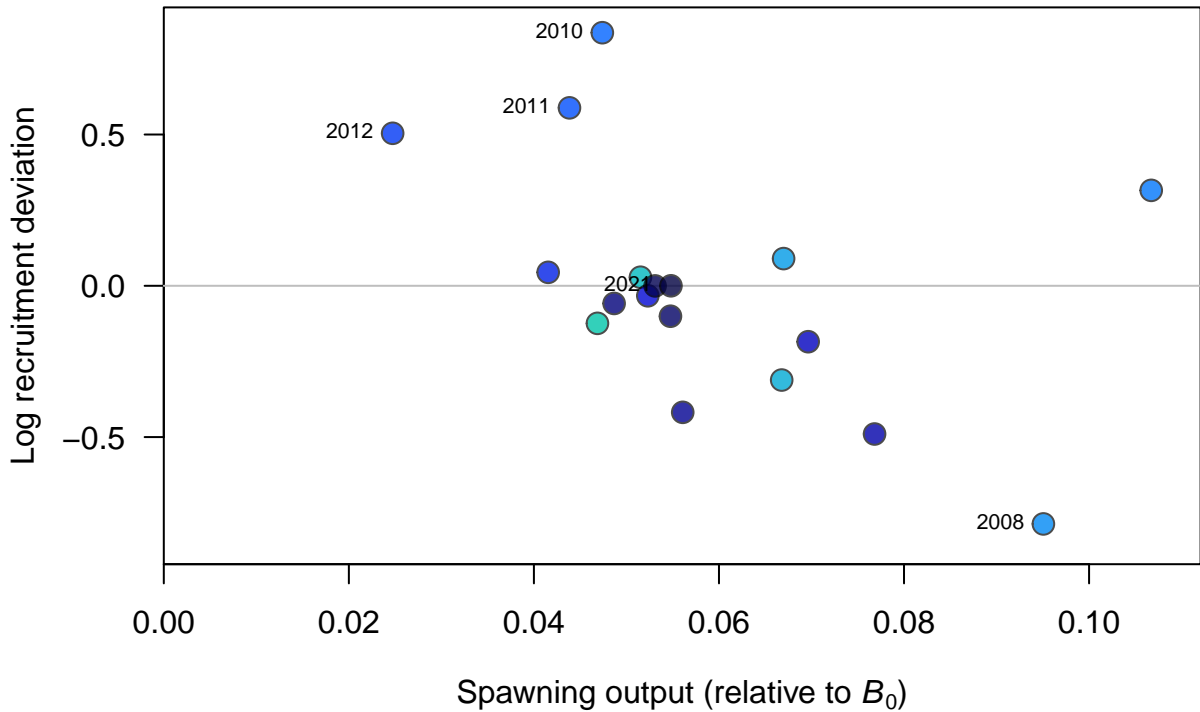
Recruitment deviation variance

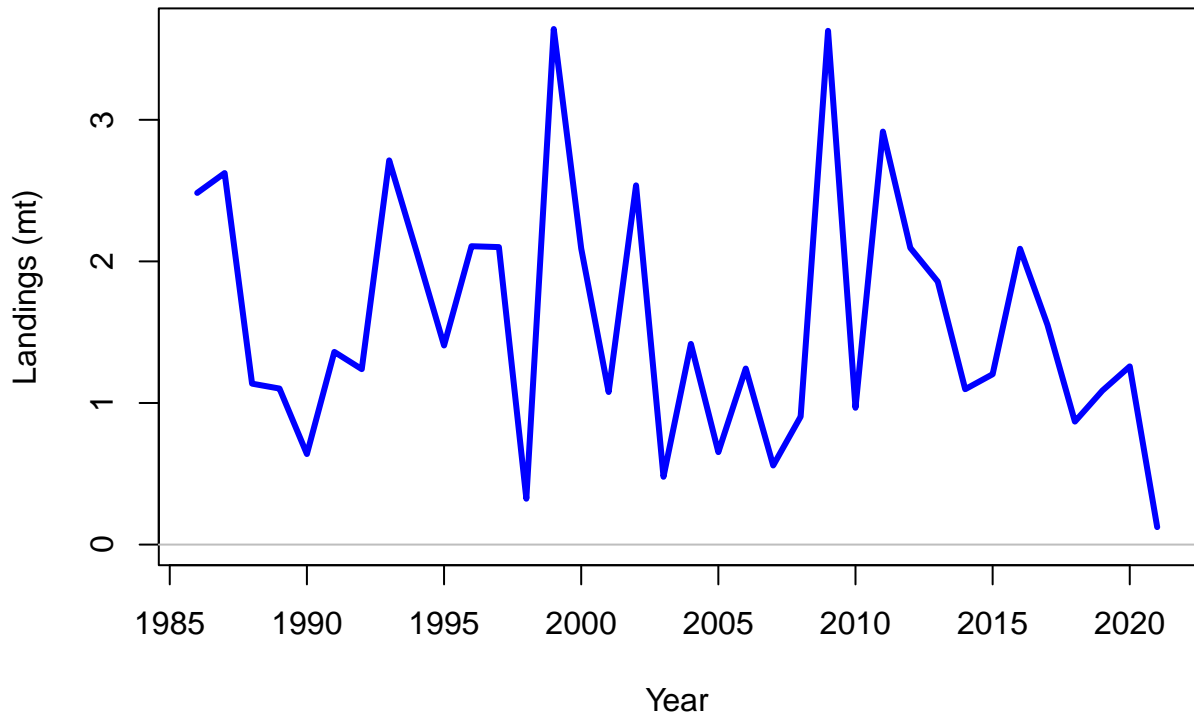


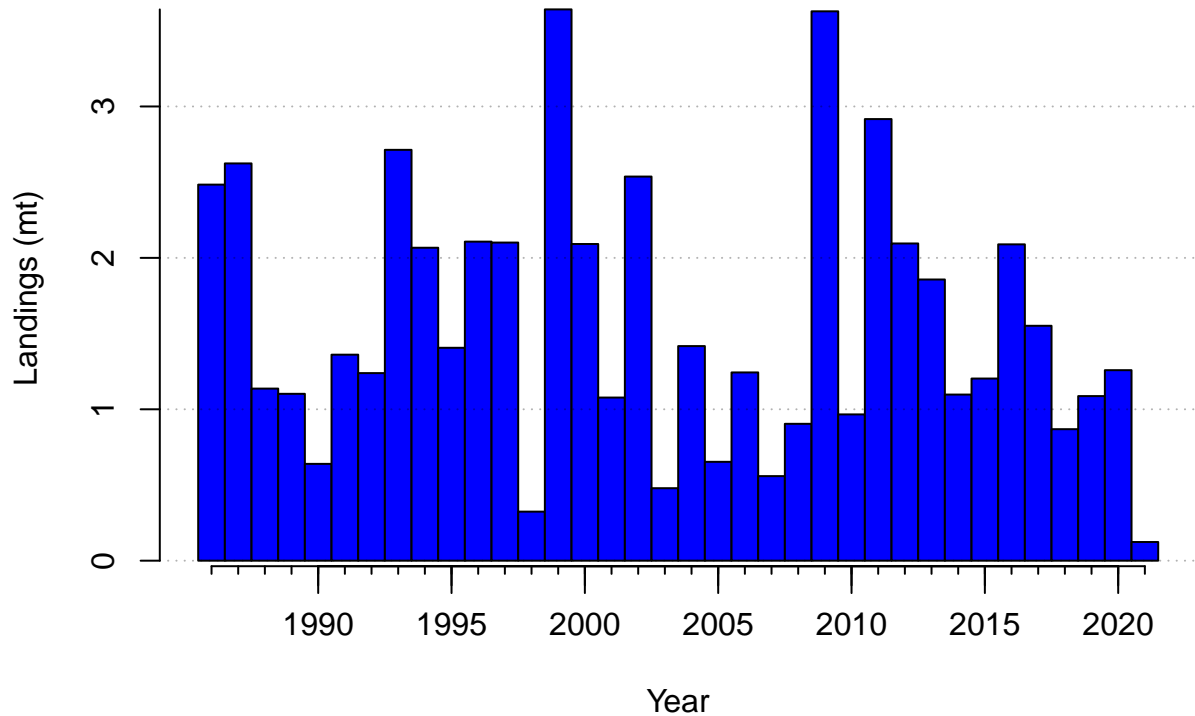












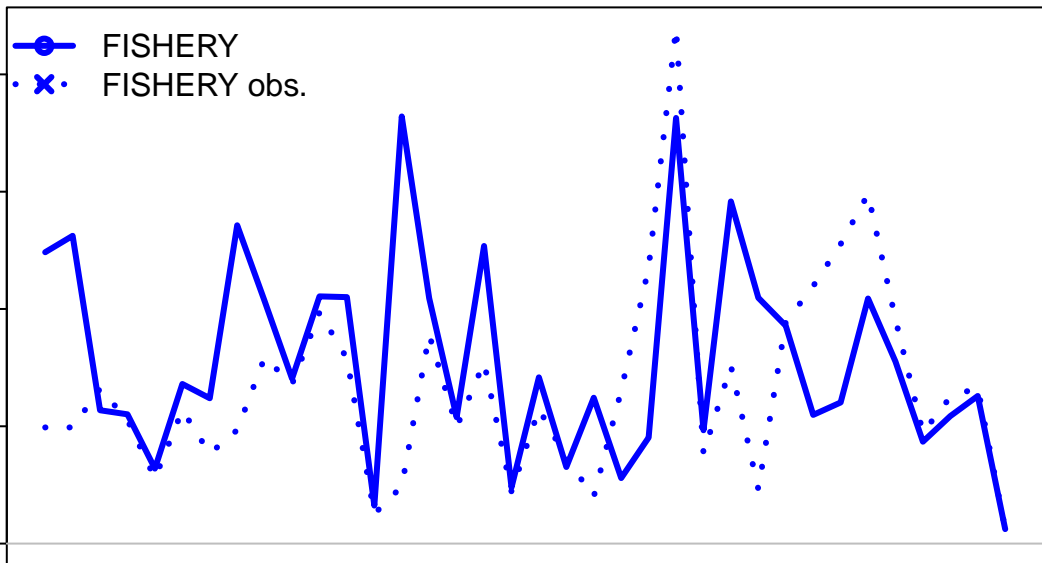
Observed and expected Landings (mt)

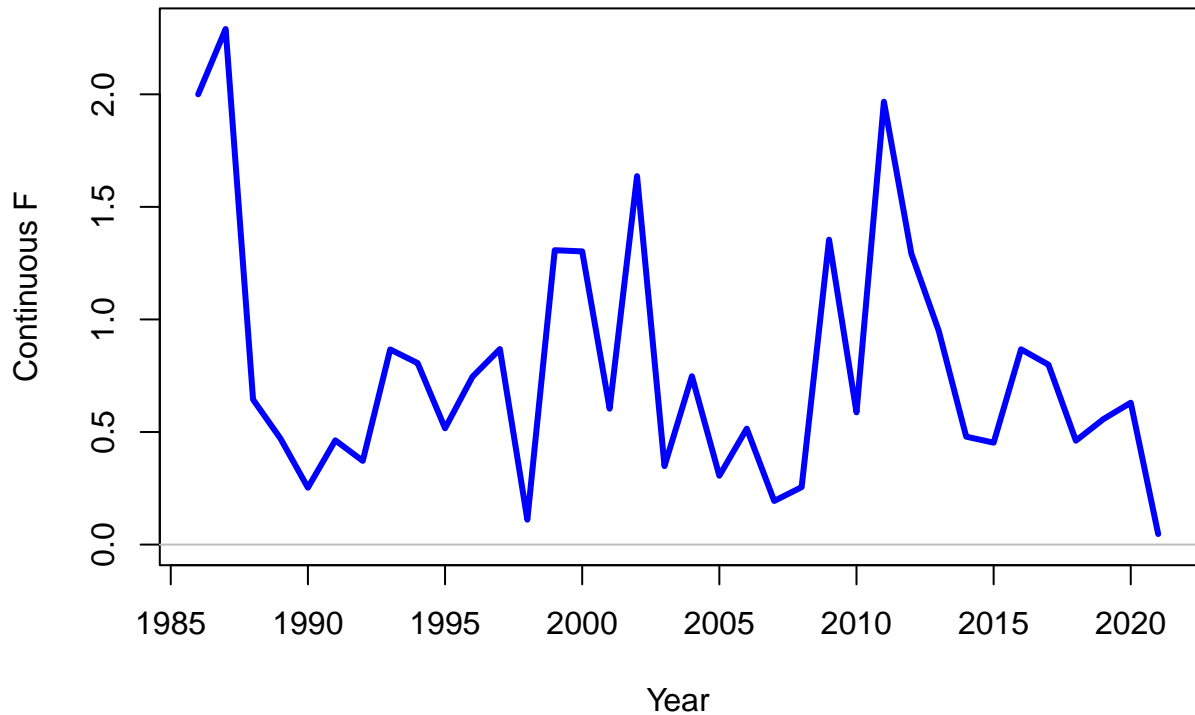
FISHERY
FISHERY obs.

4
3
2
1
0

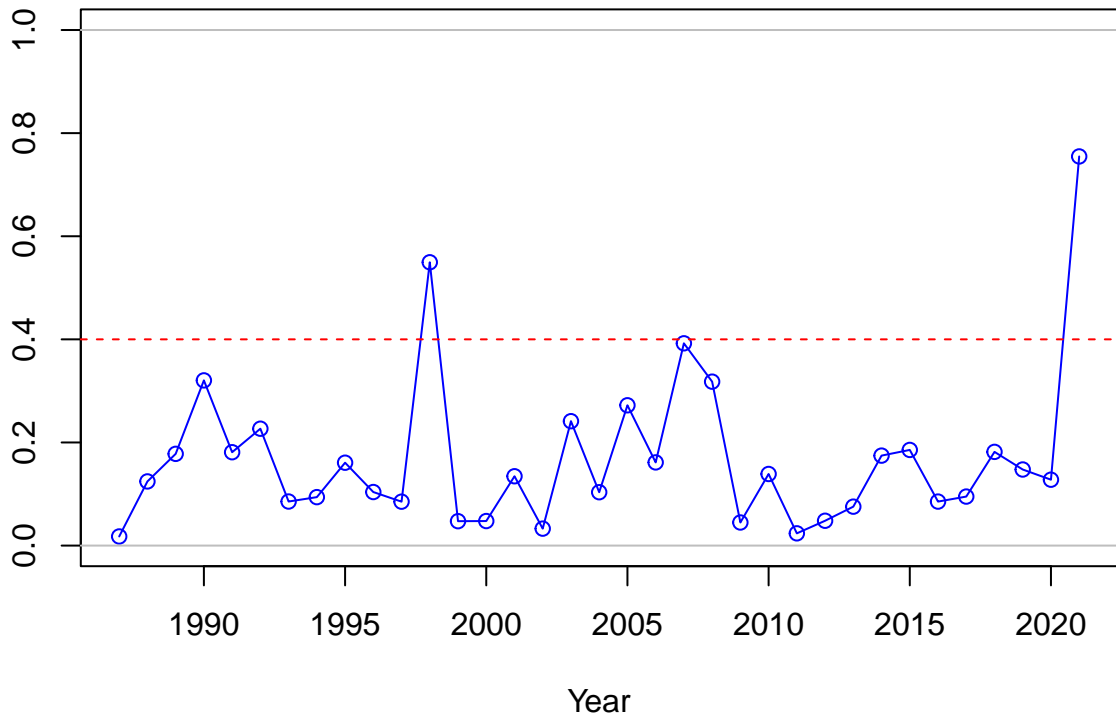
1985 1990 1995 2000 2005 2010 2015 2020

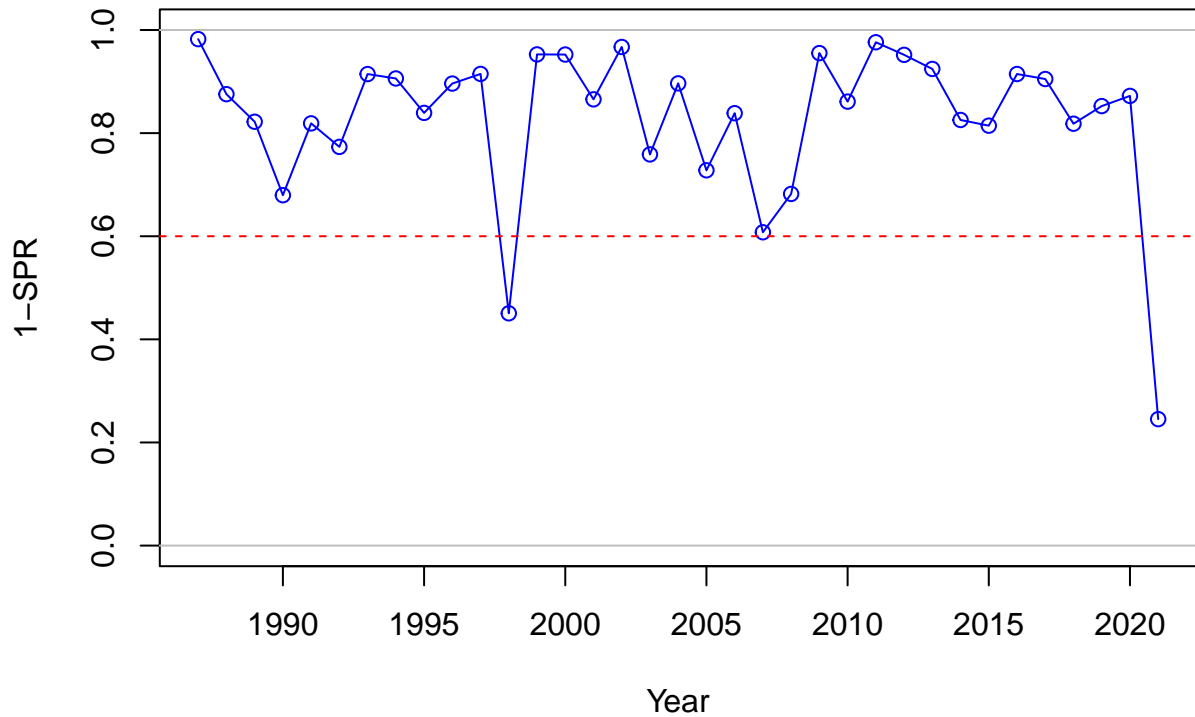
Year



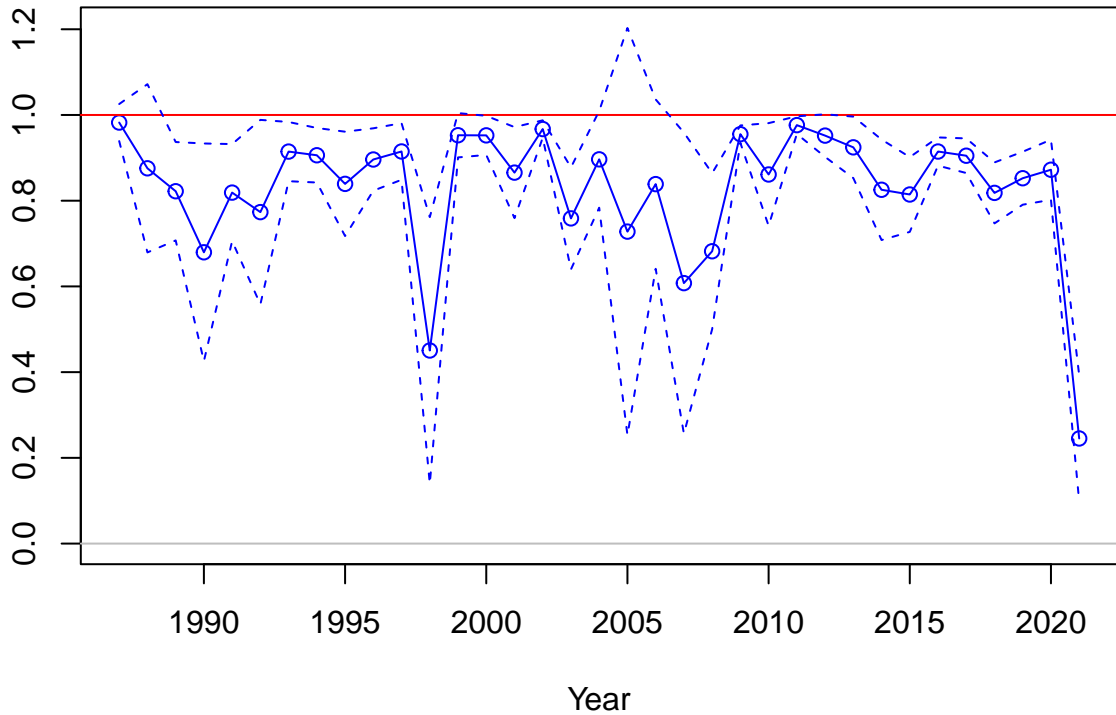


SPR

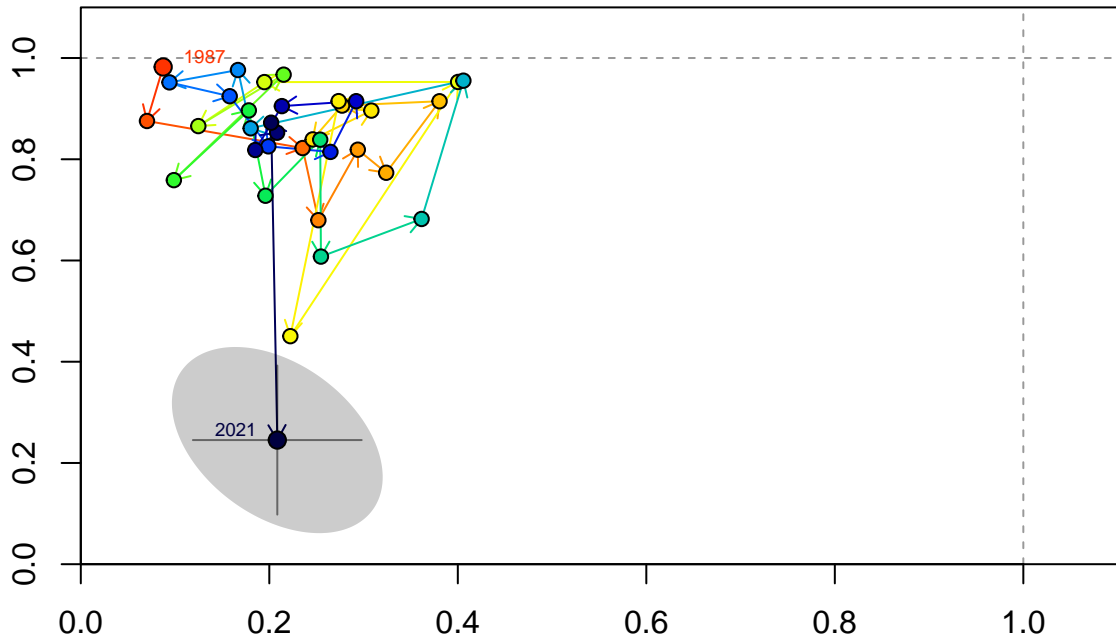




Fishing intensity: 1-SPR

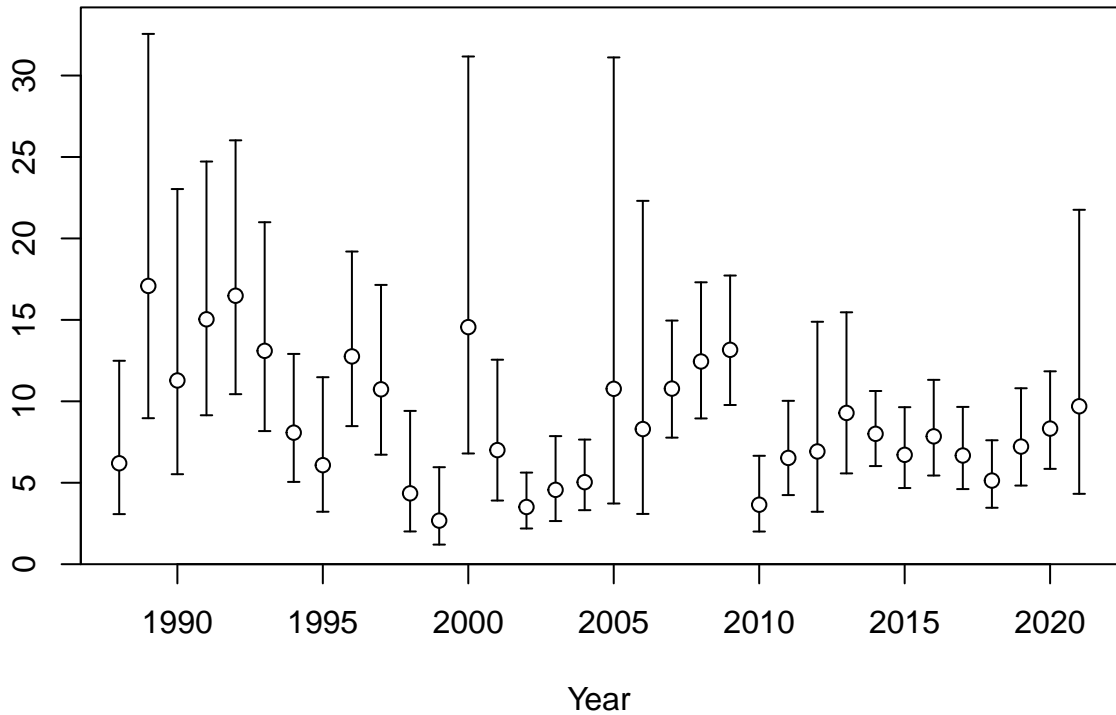


Fishing intensity: 1-SPR

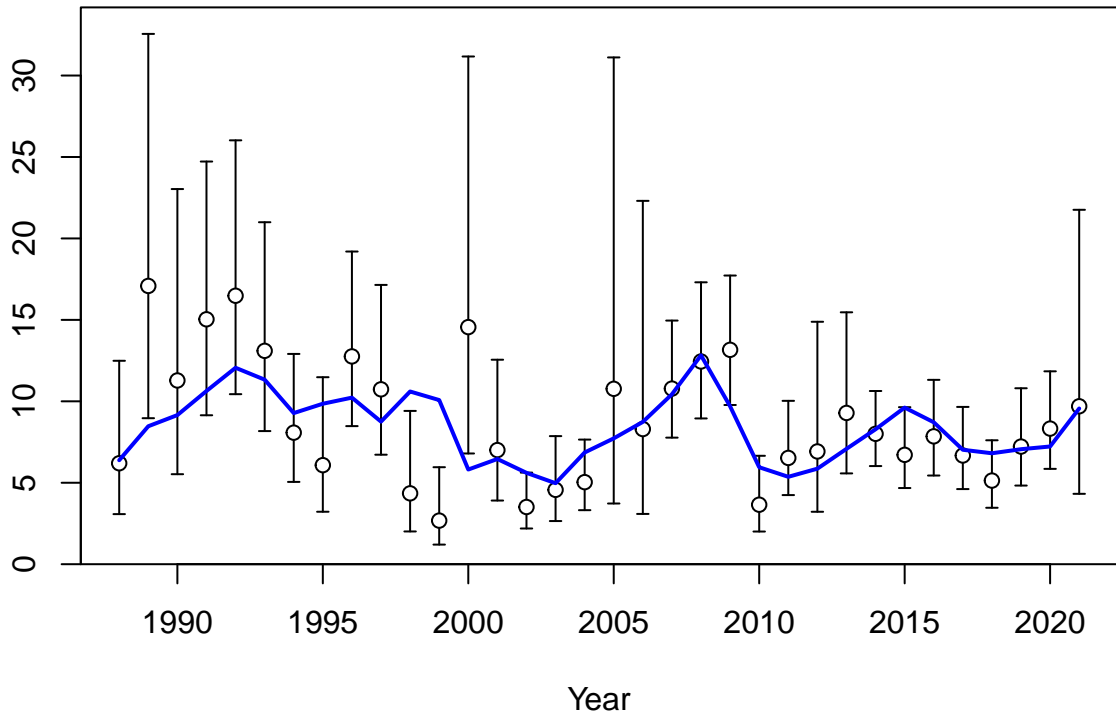


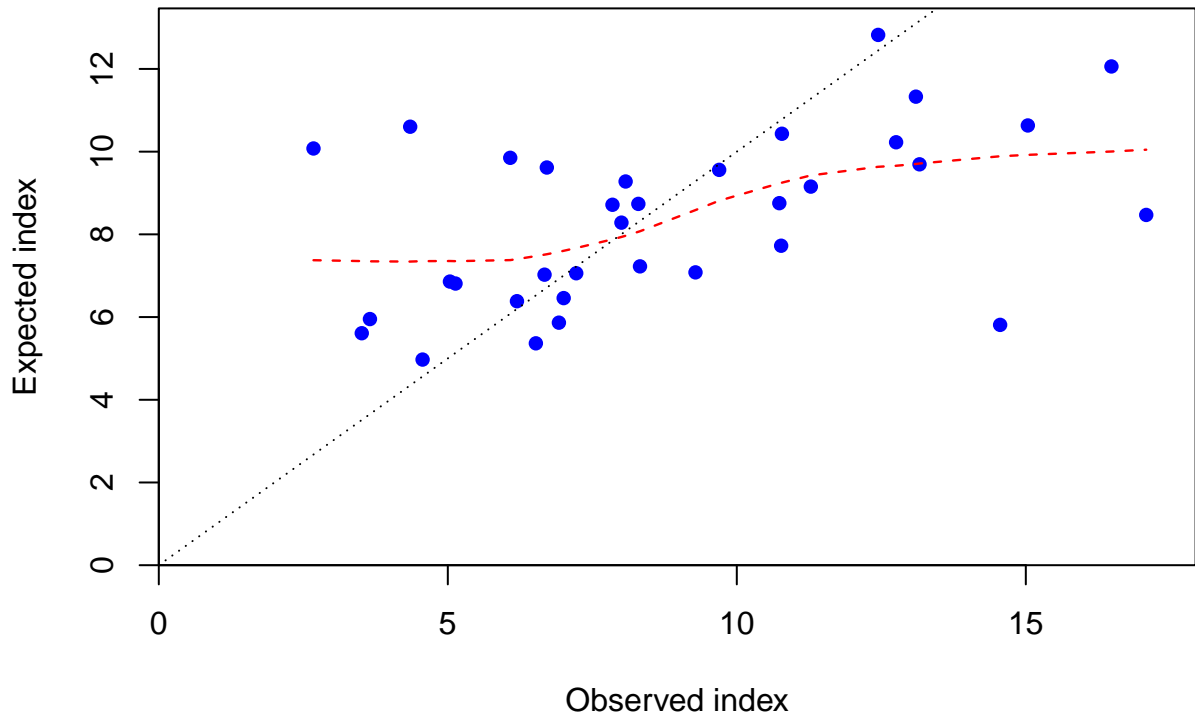
Relative spawning output: B/B_{MSY}

Index

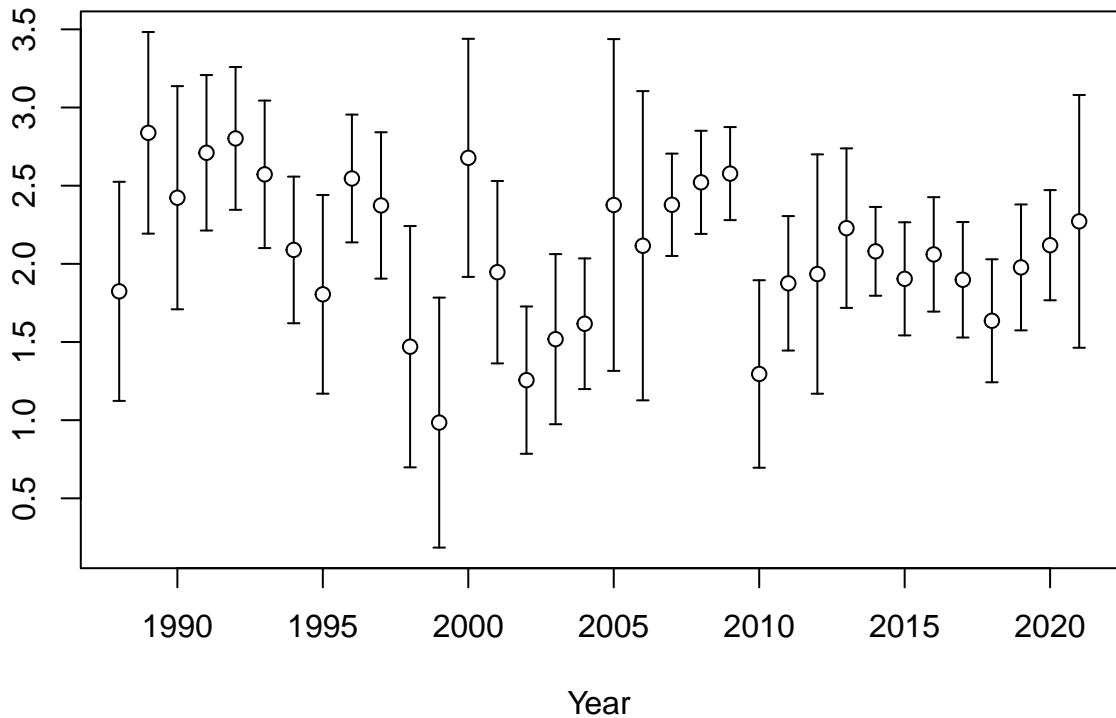


Index

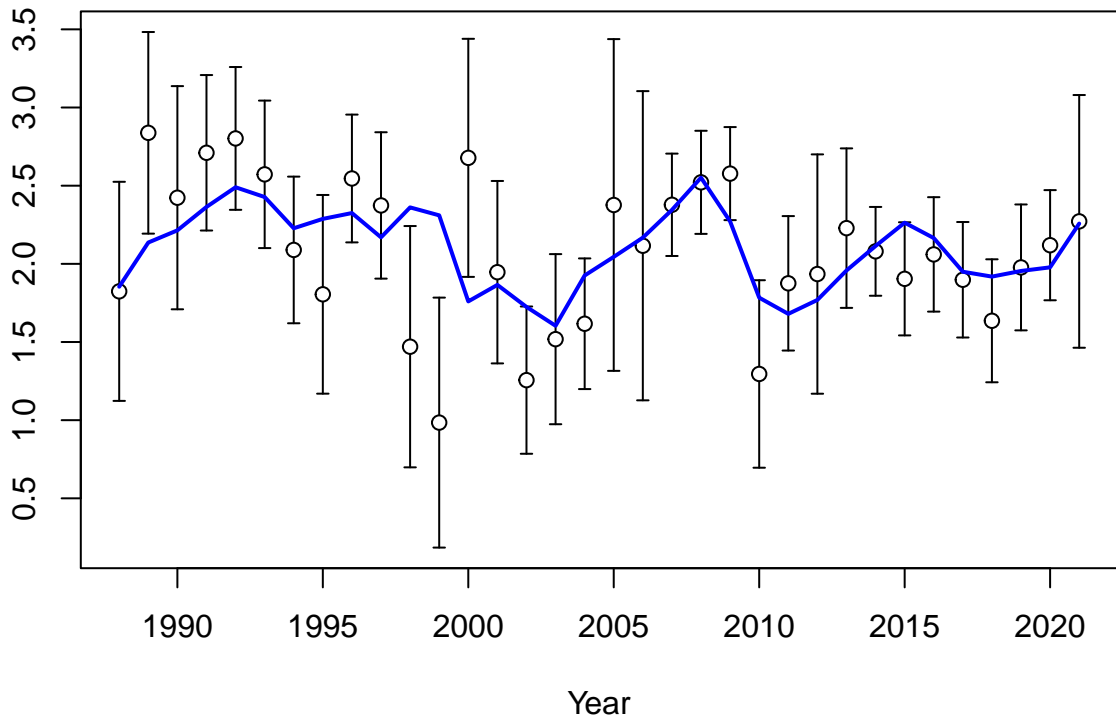


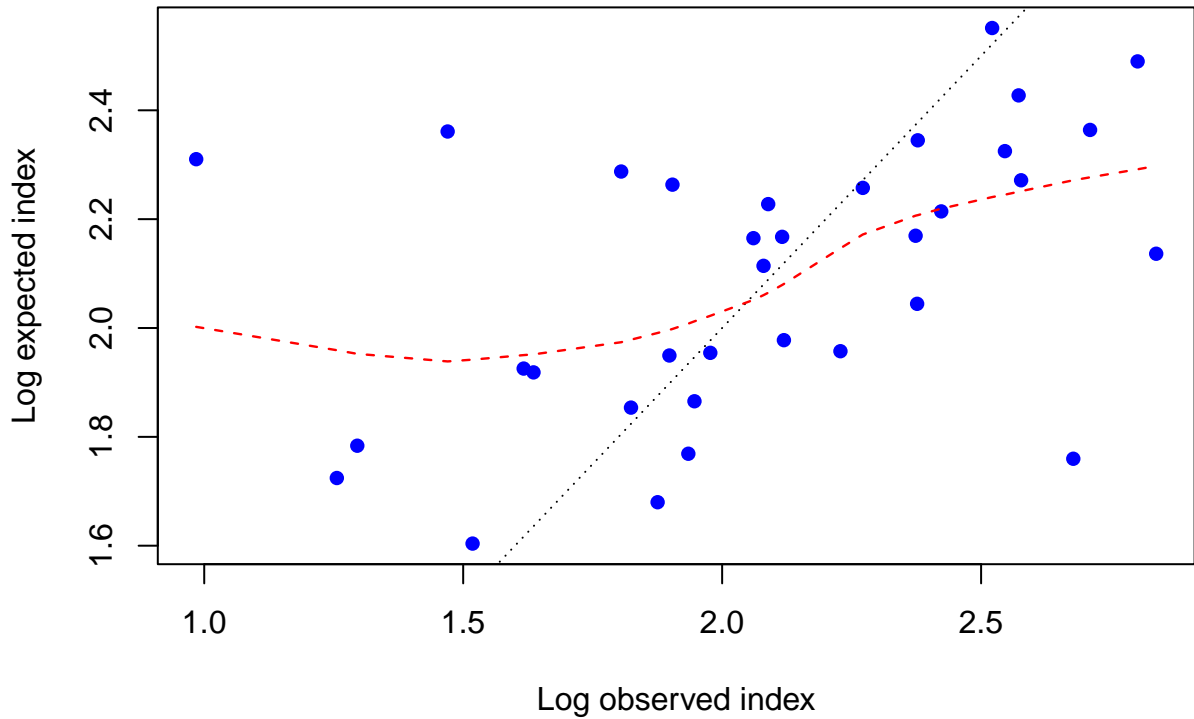


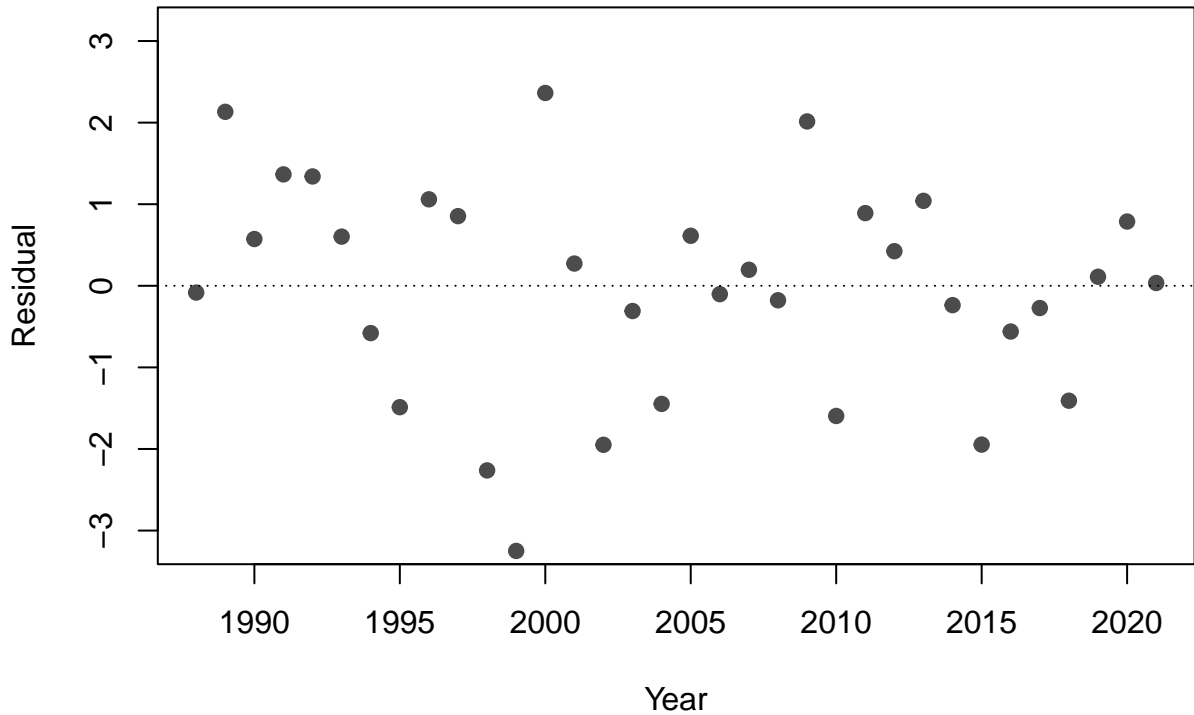
Log index

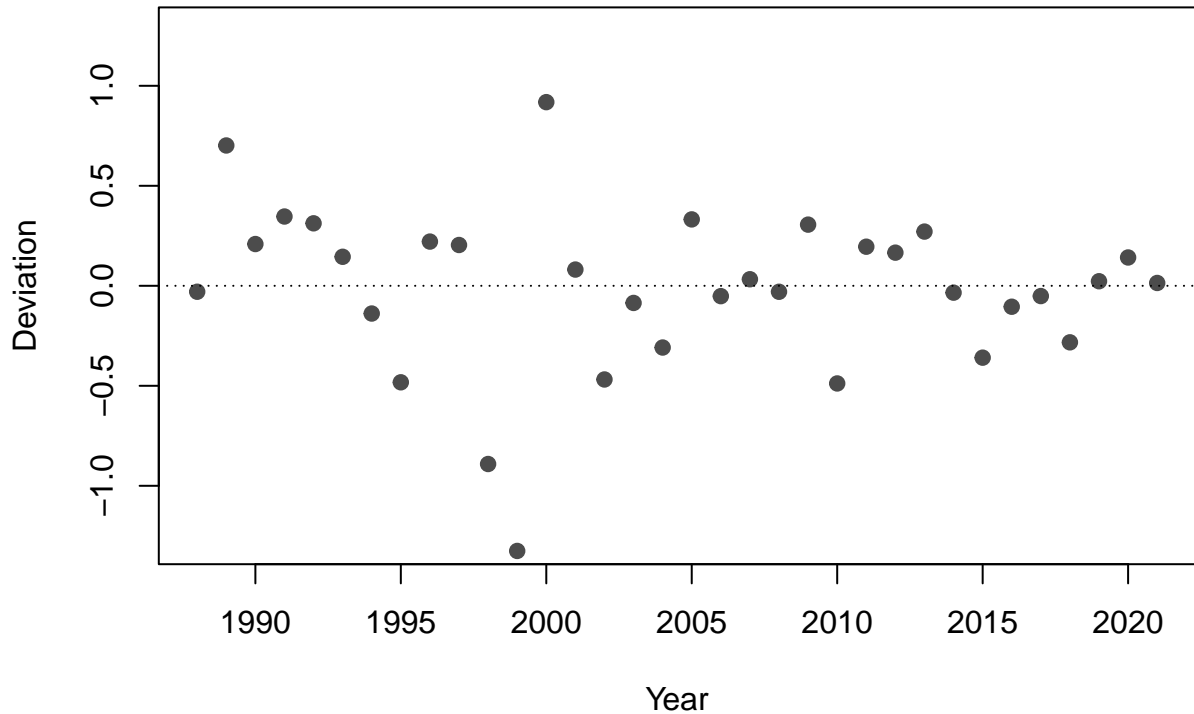


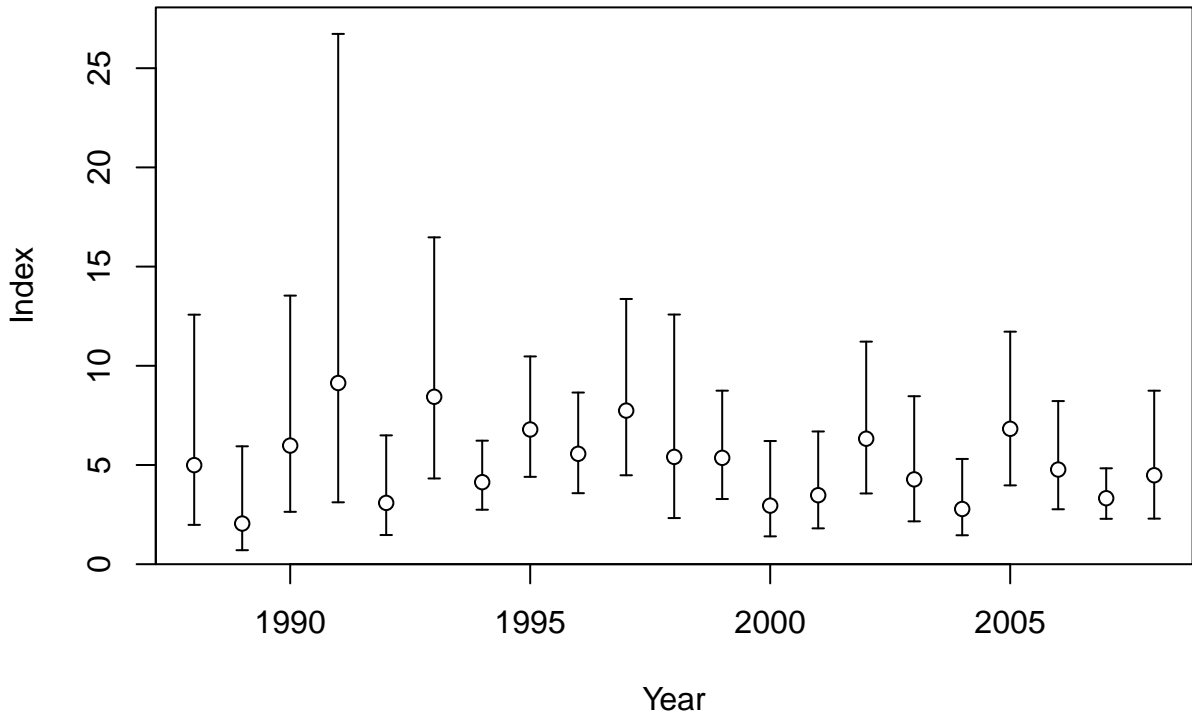
Log index

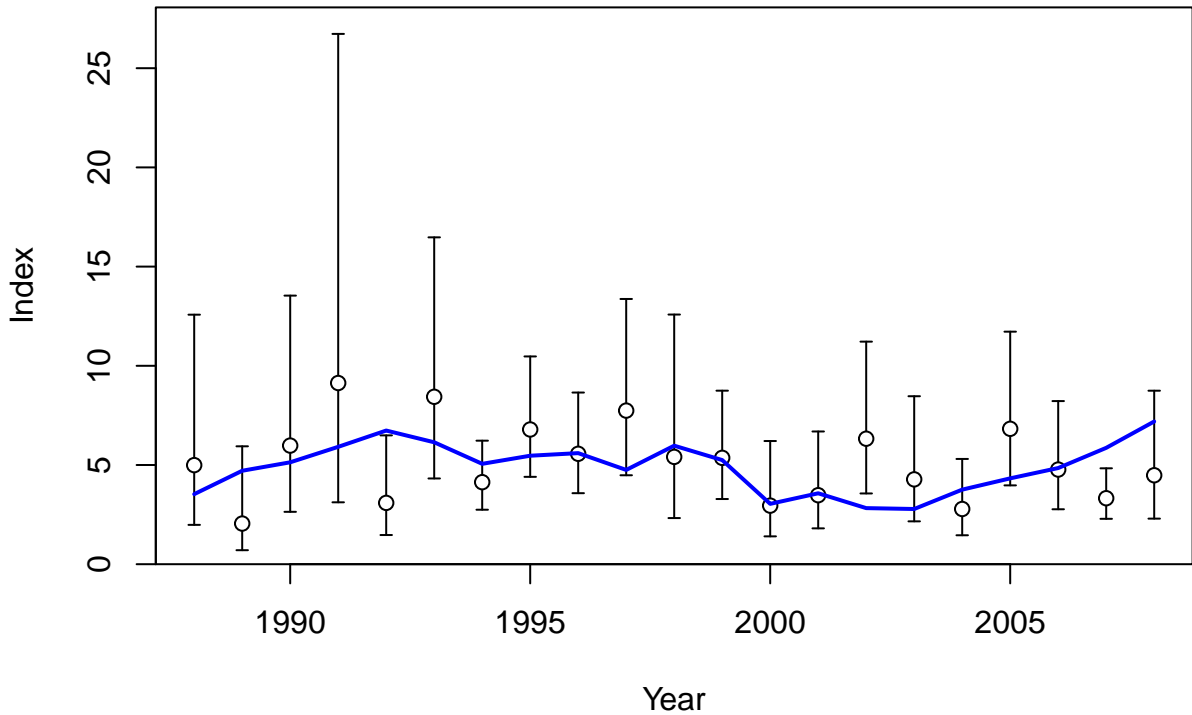


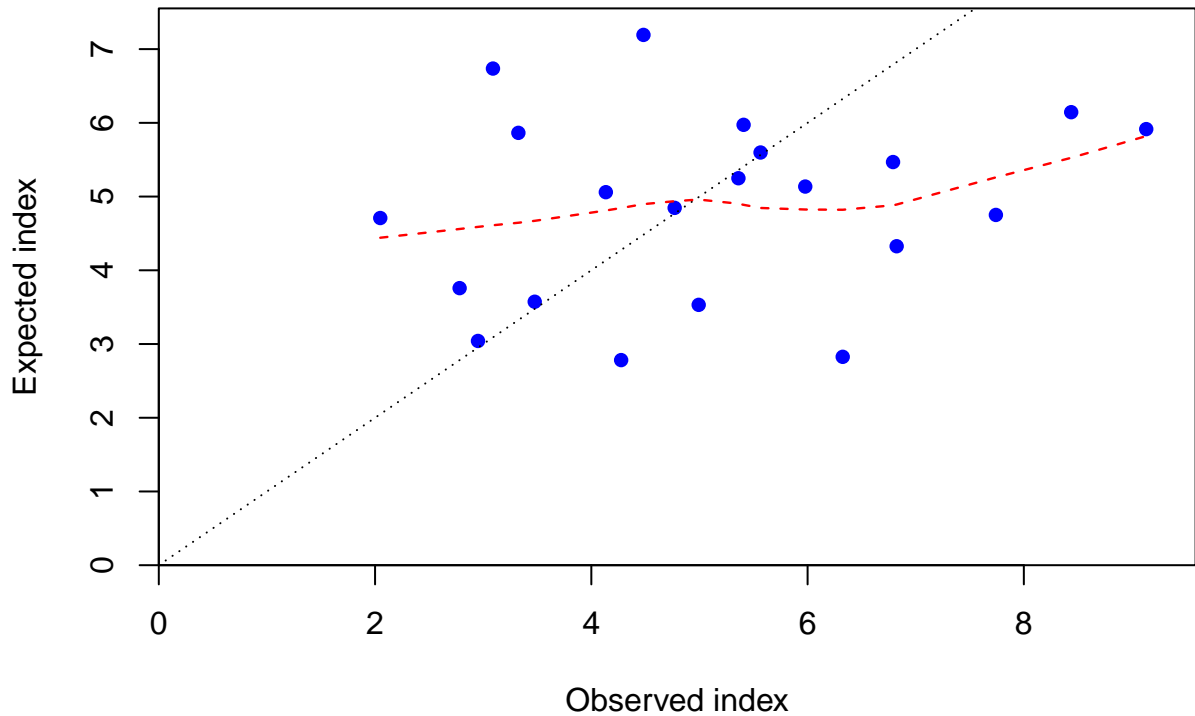


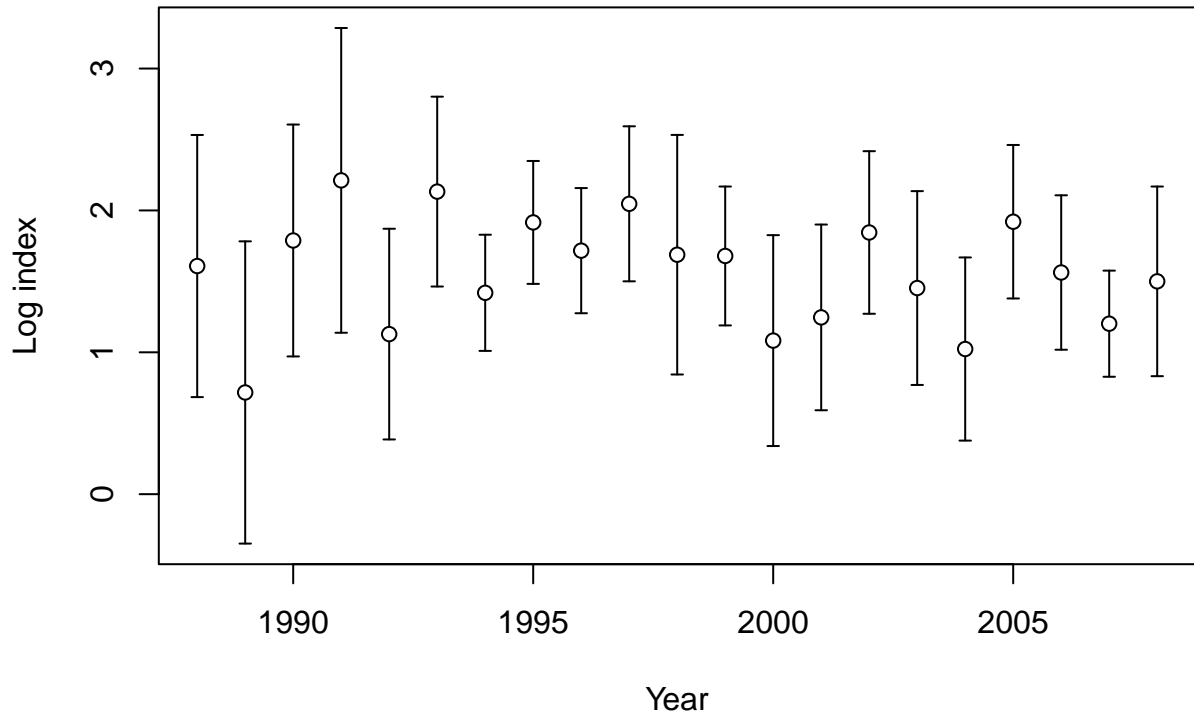


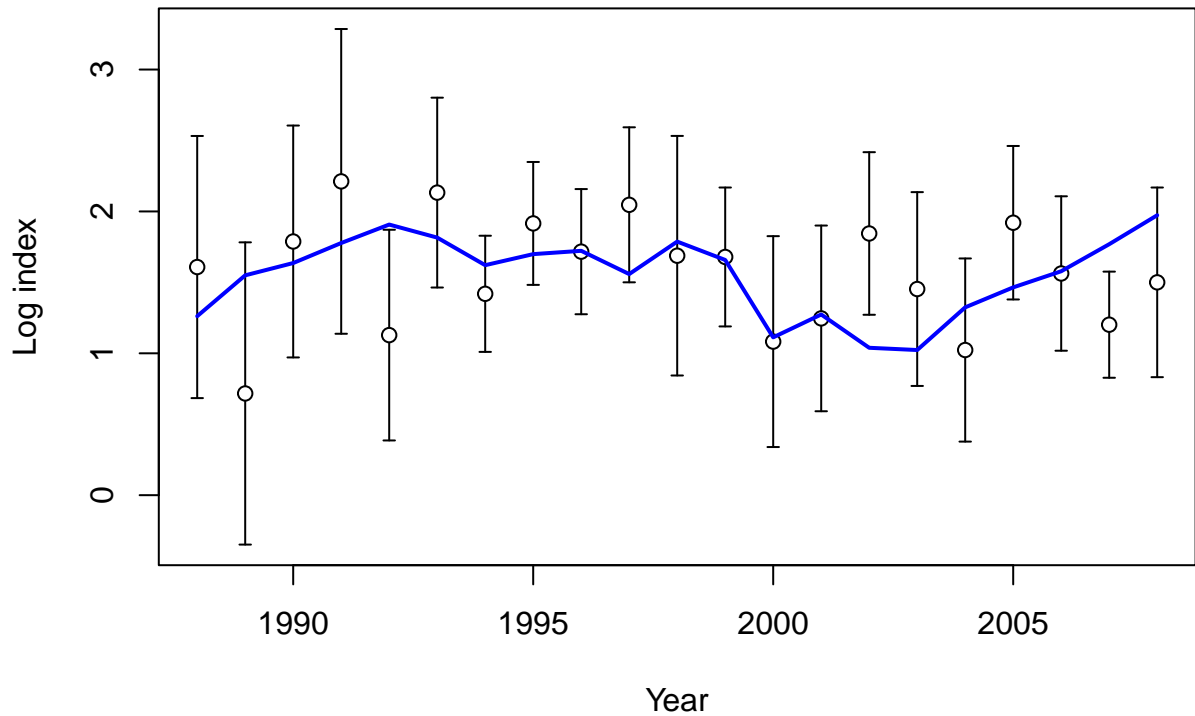




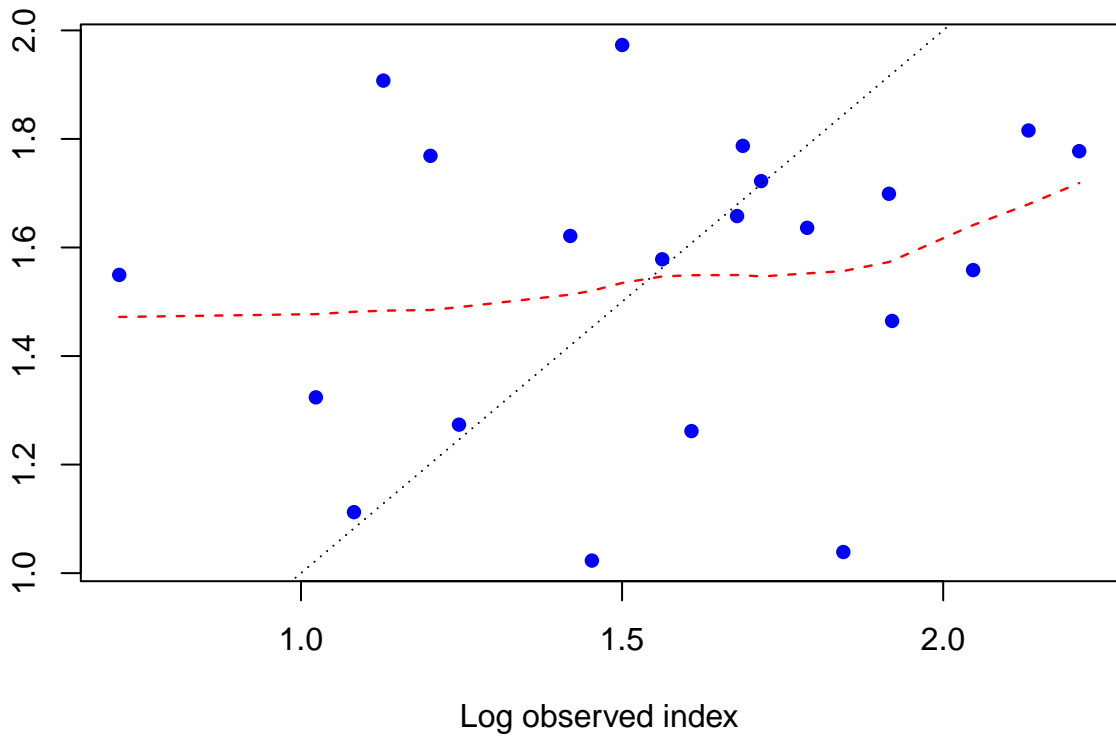








Log expected index



Effective catchability

2.046198
2.046194
2.046190

1.5

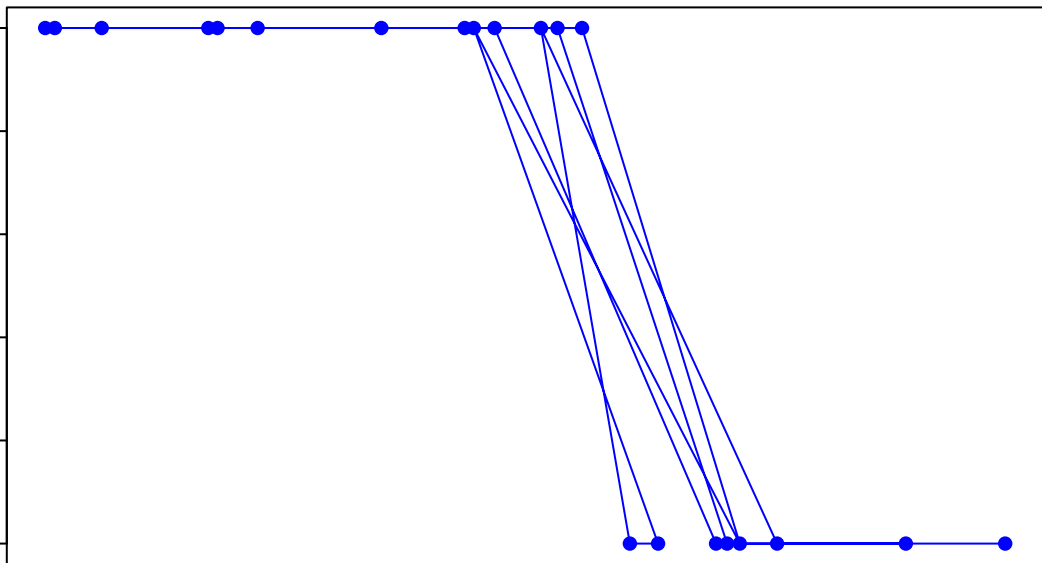
2.0

2.5

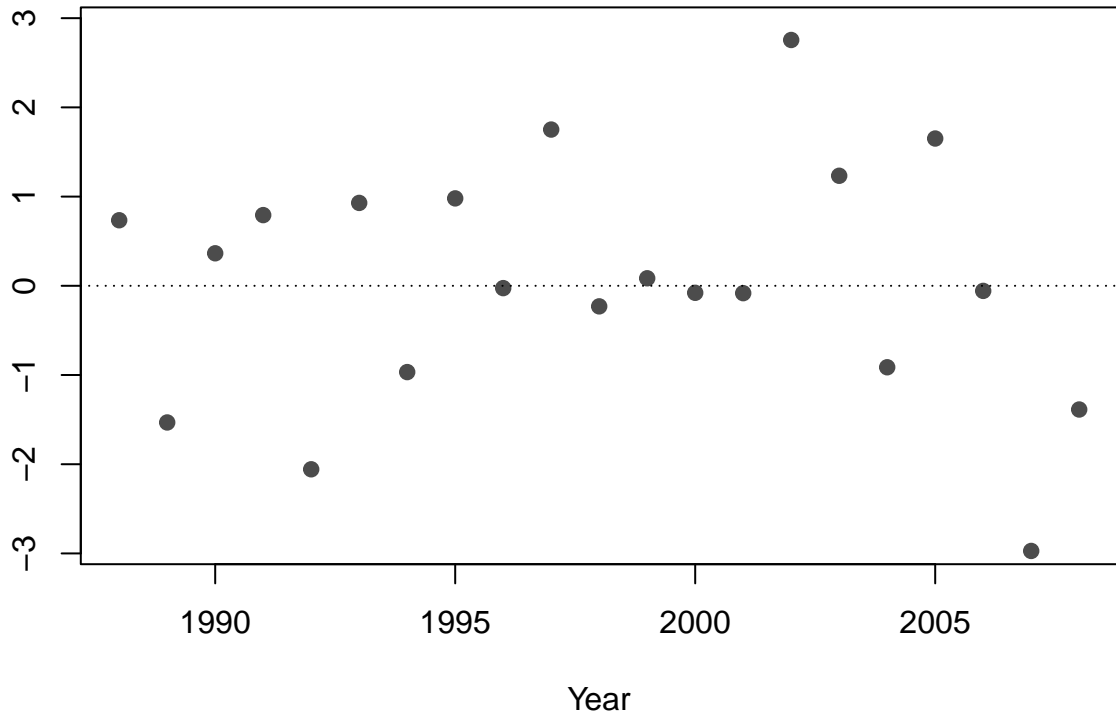
3.0

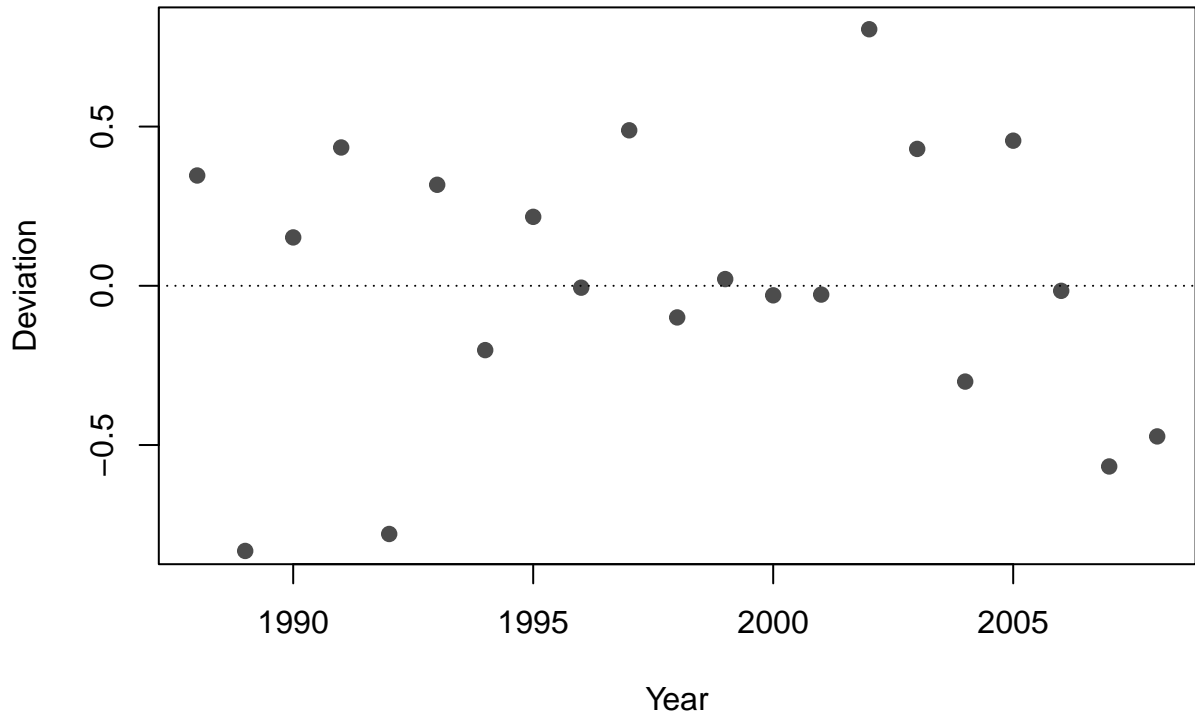
3.5

Vulnerable biomass

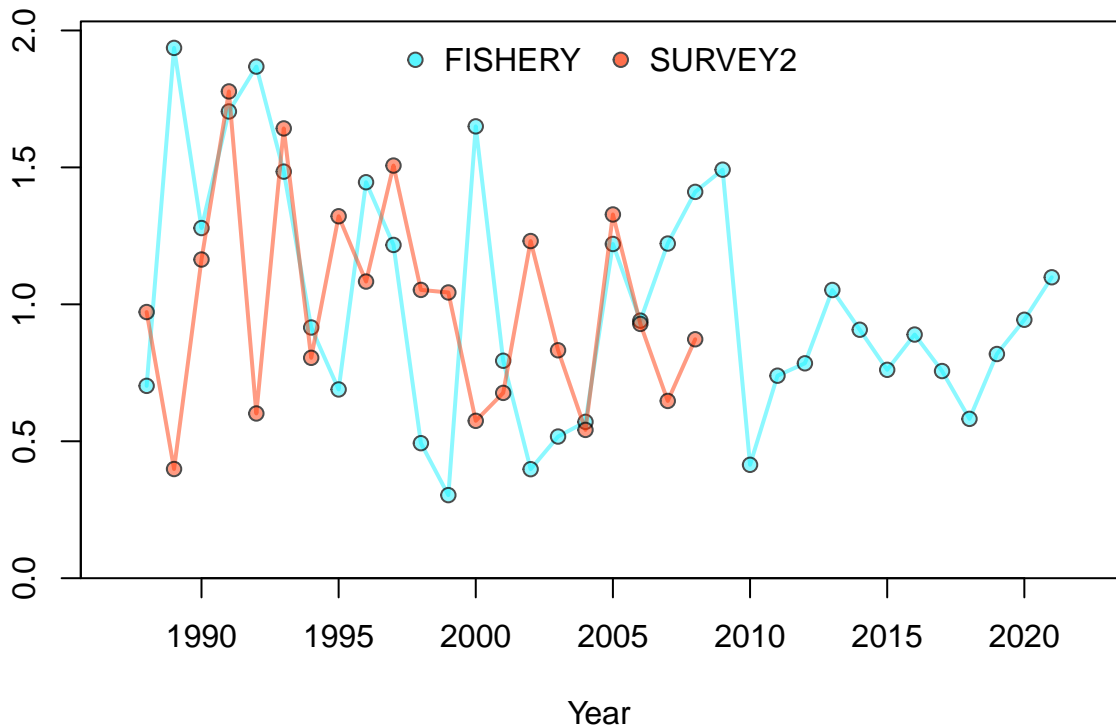


Residual

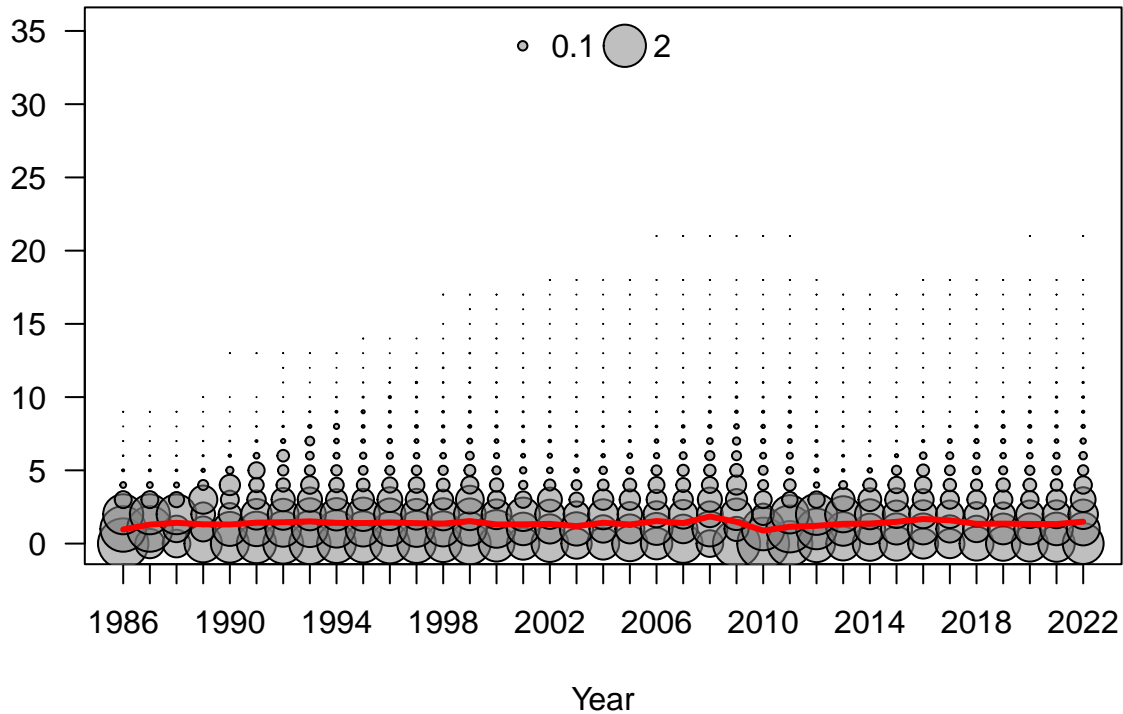


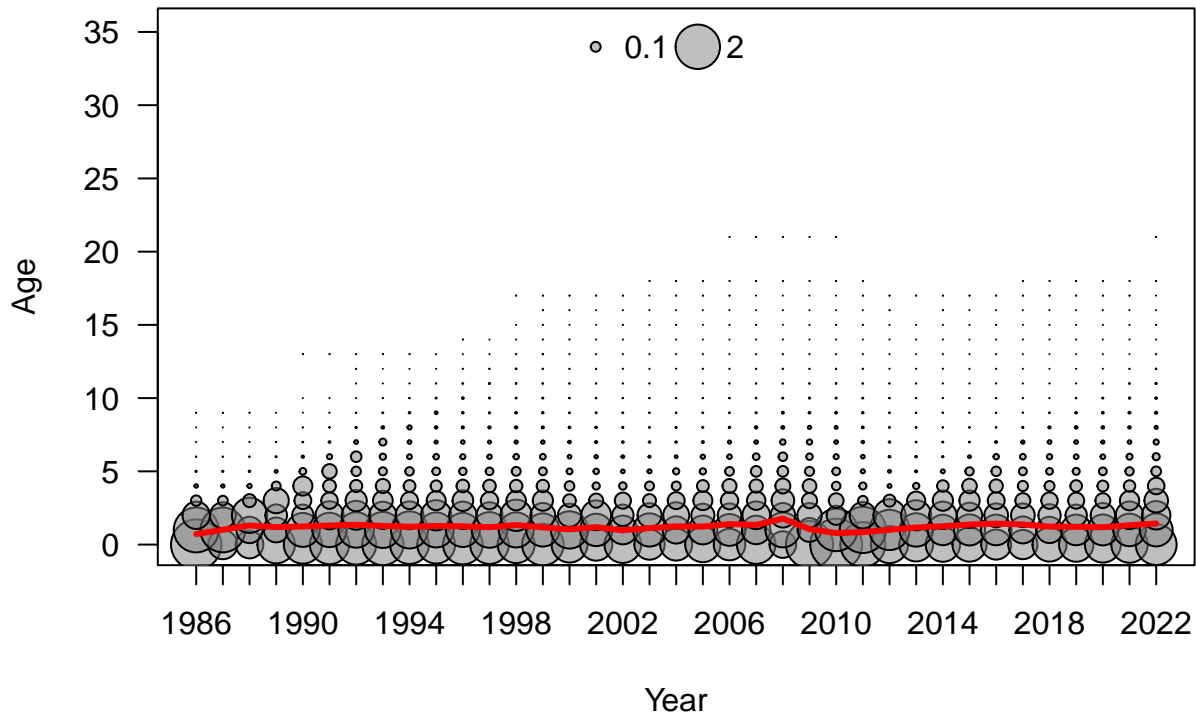


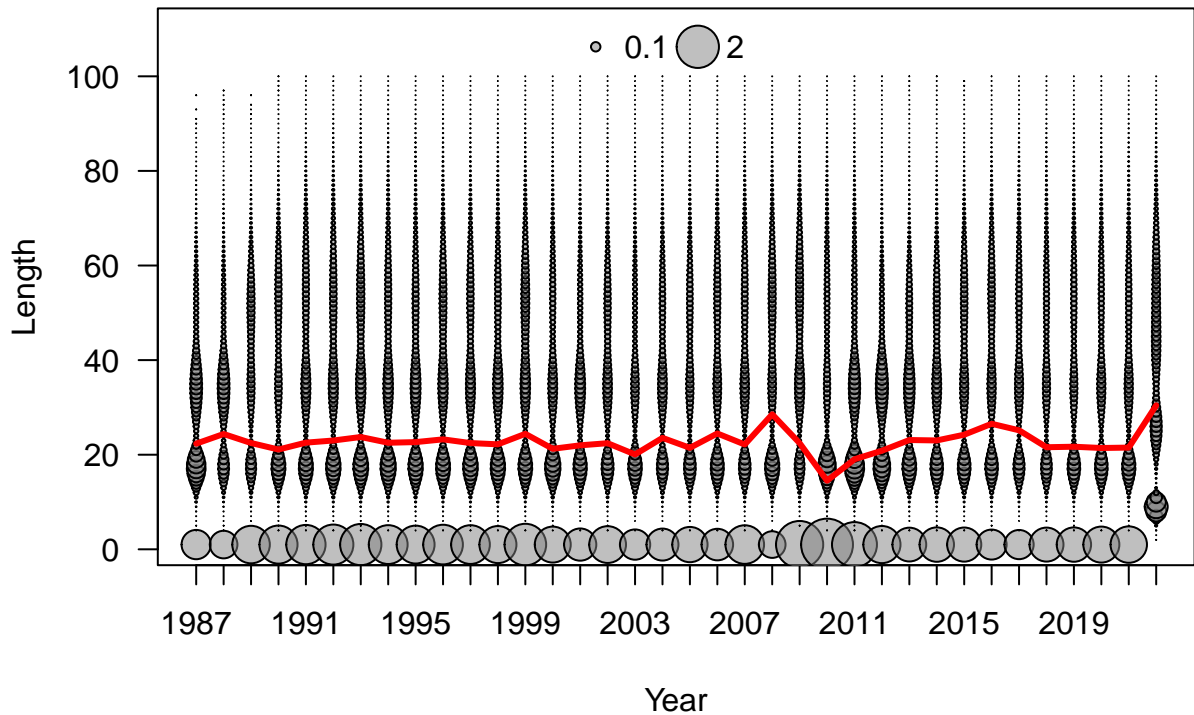
Standardized index

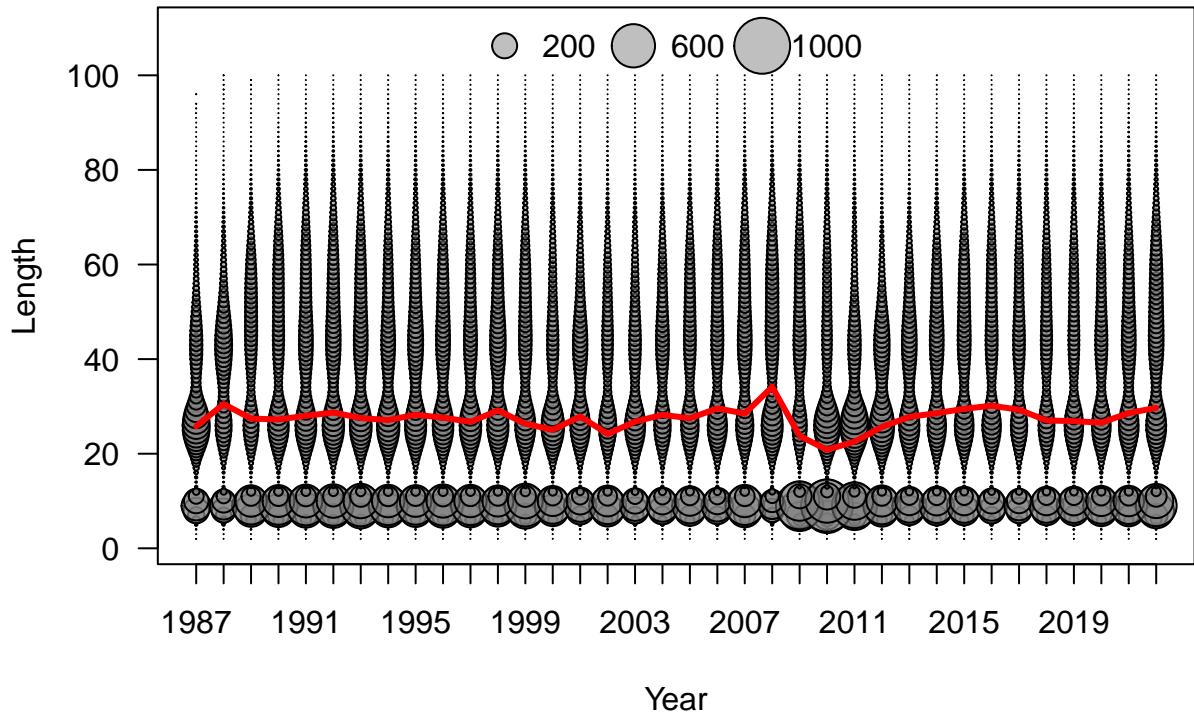


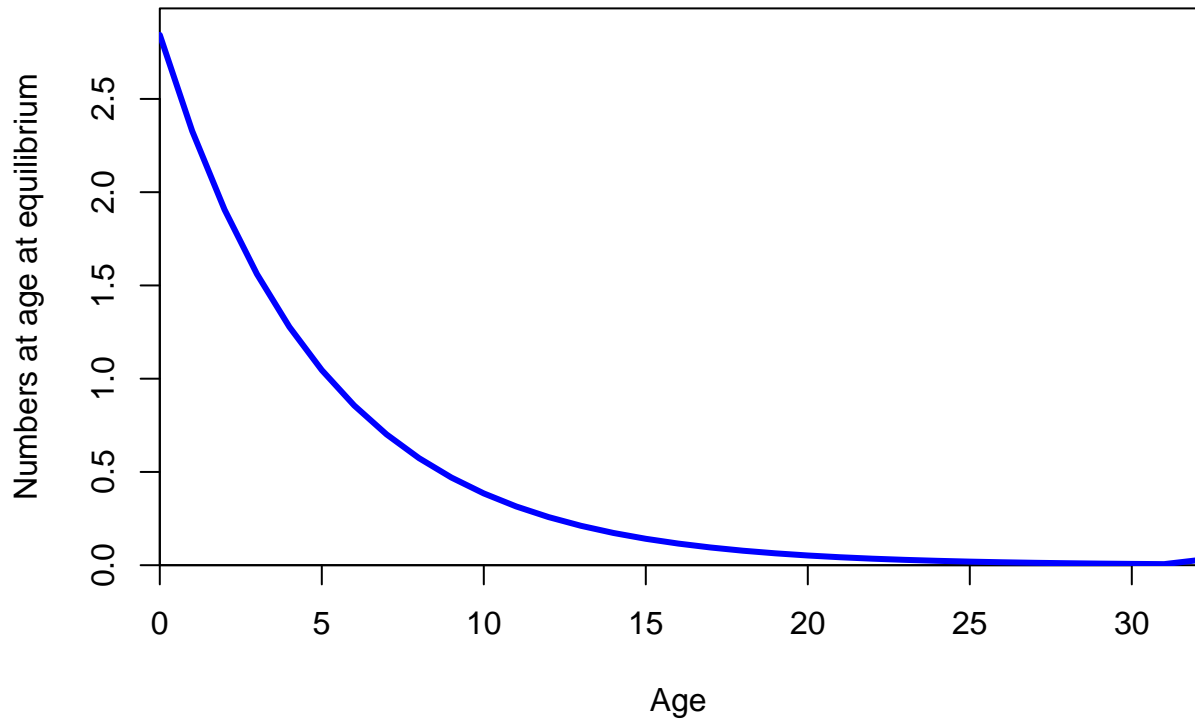
Age

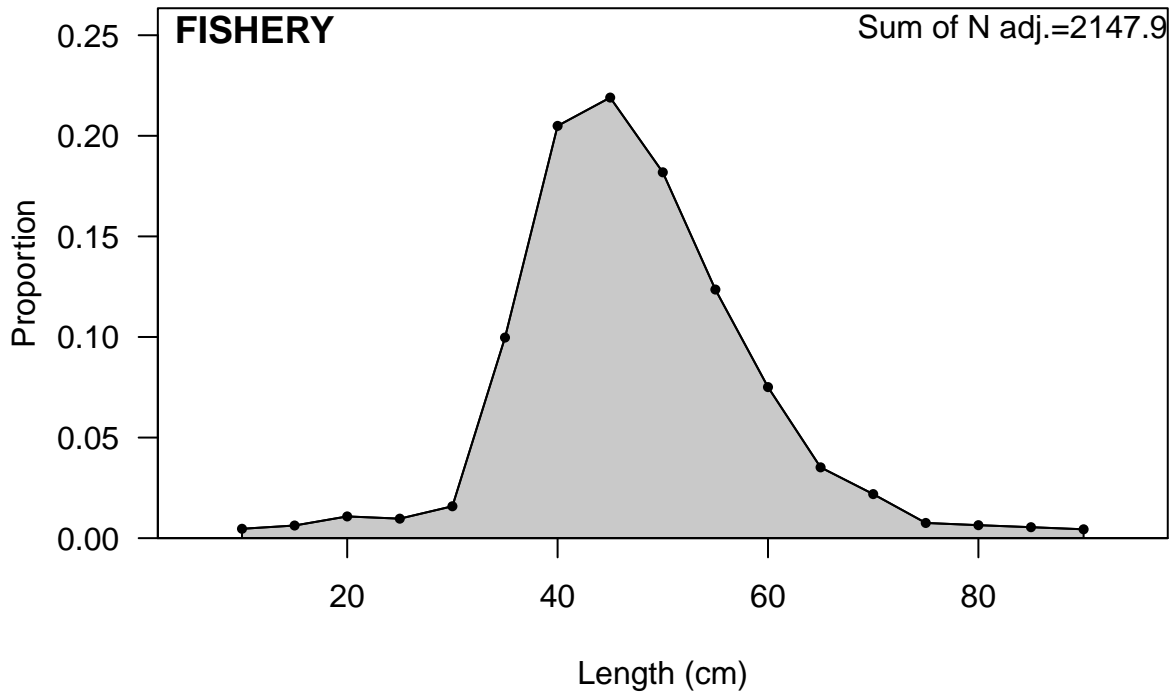






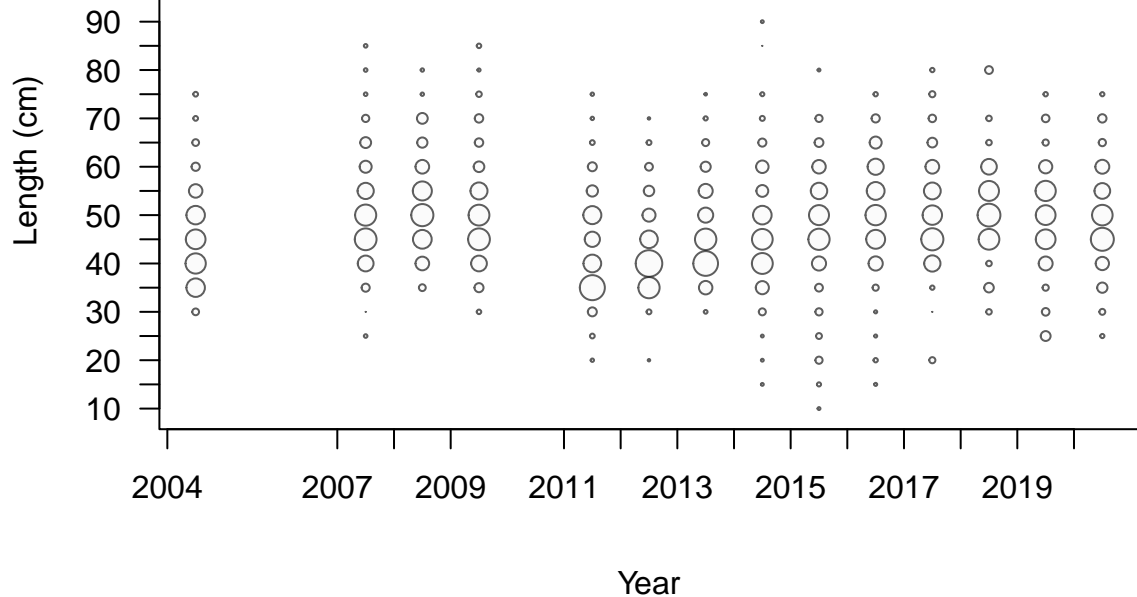




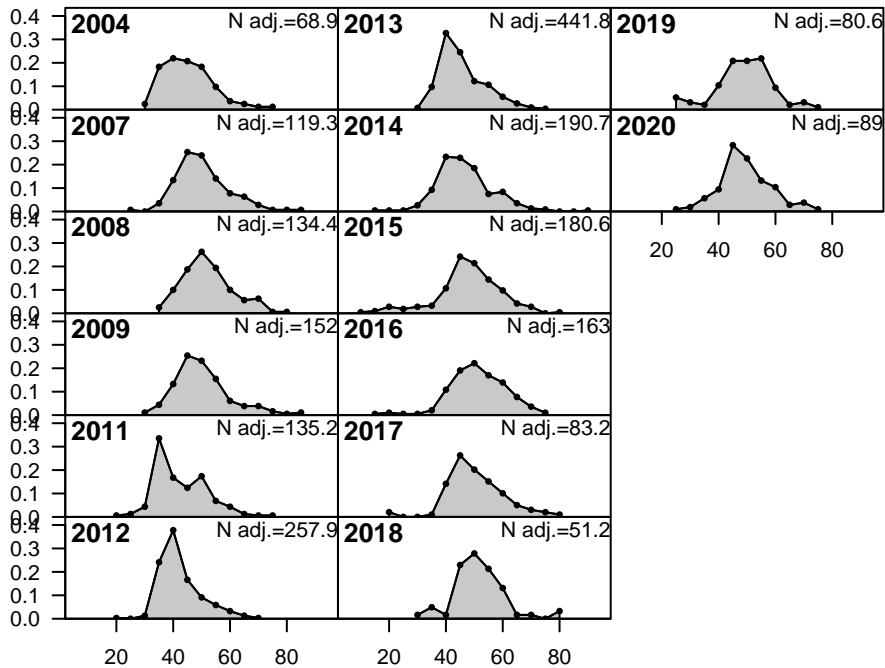


FISHERY

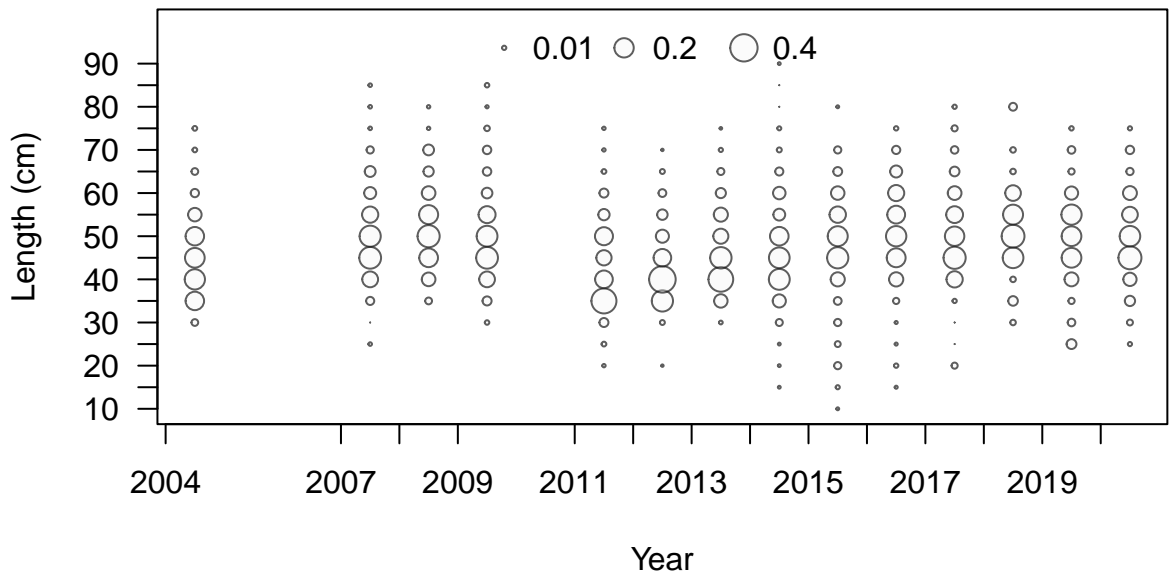
• 0.01 ○ 0.2 ○ 0.4



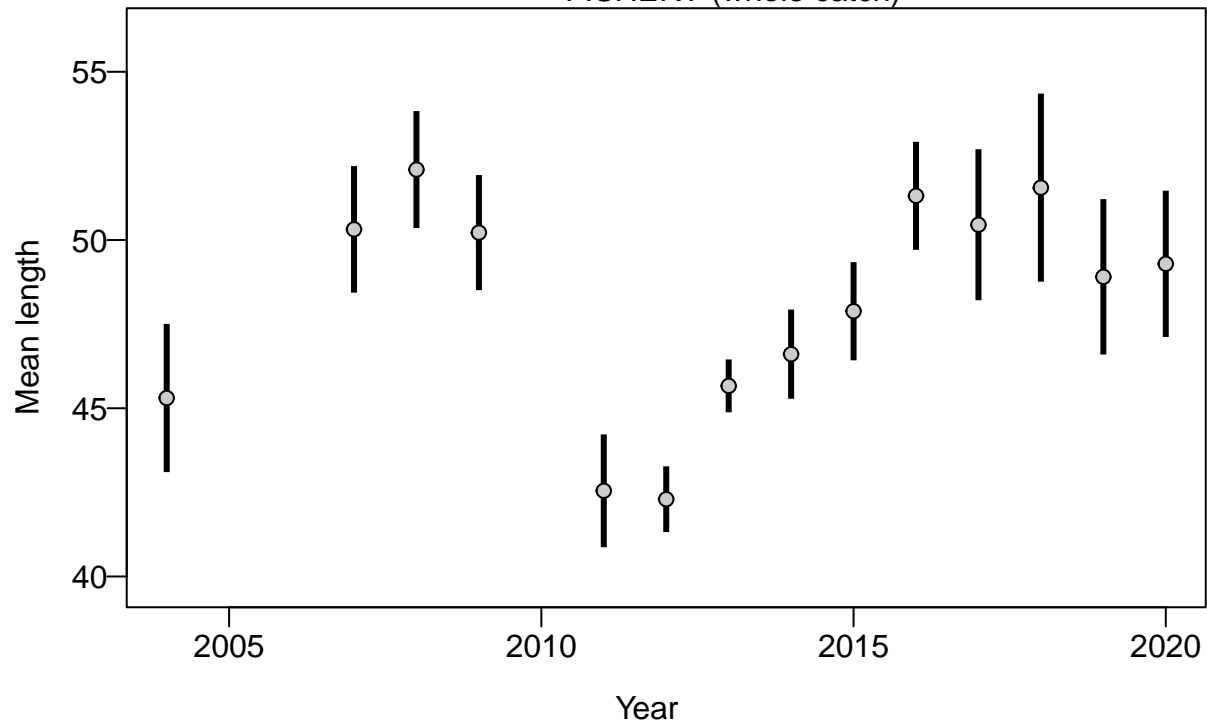
Proportion

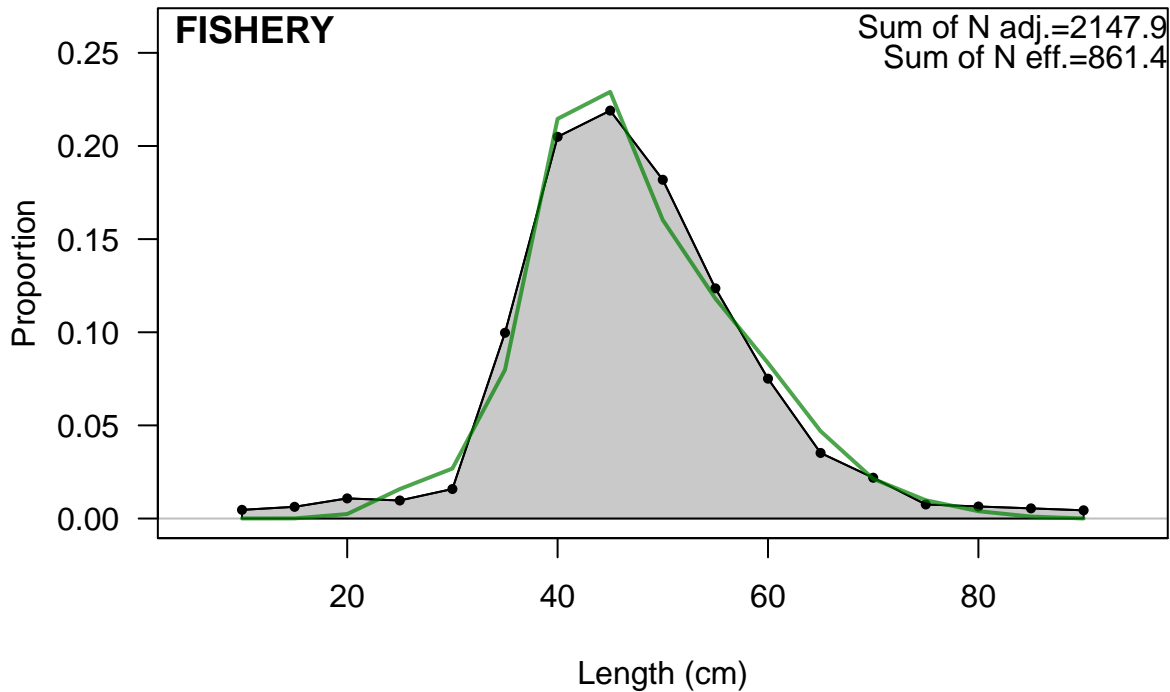


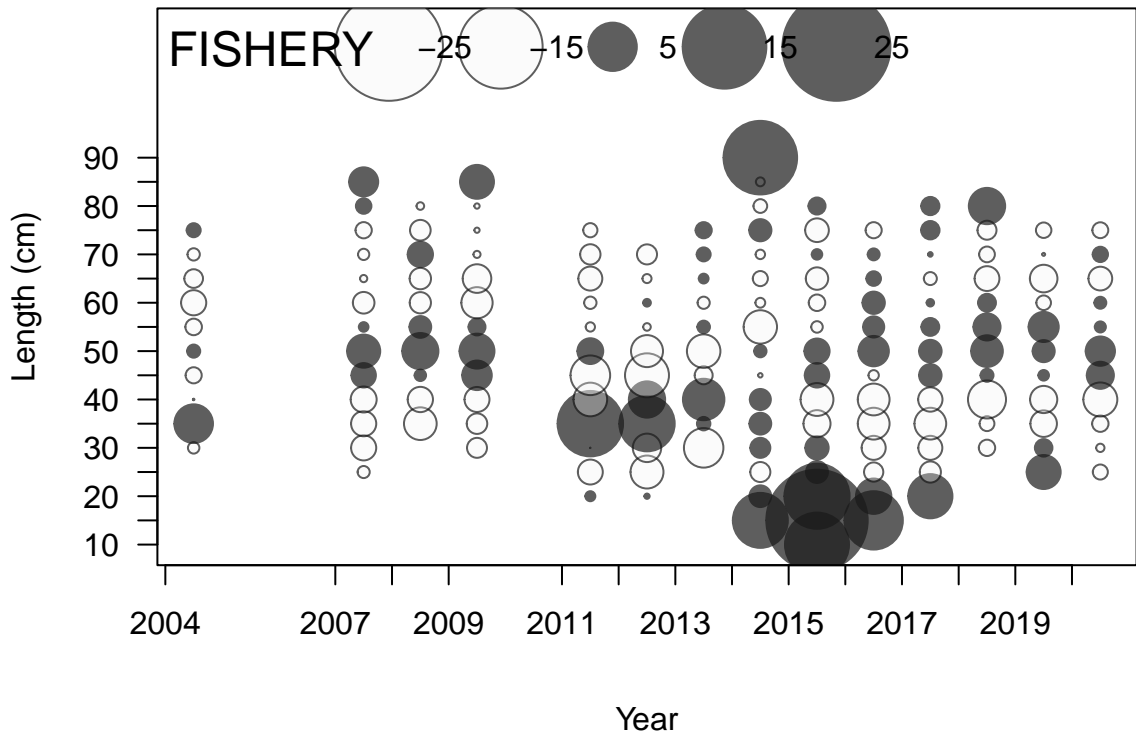
Length (cm)



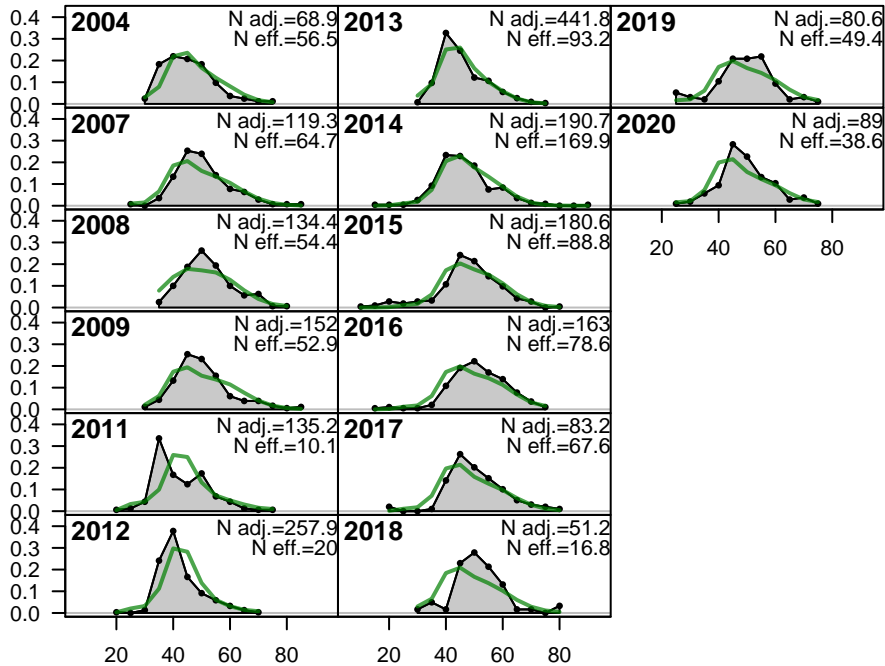
FISHERY (whole catch)



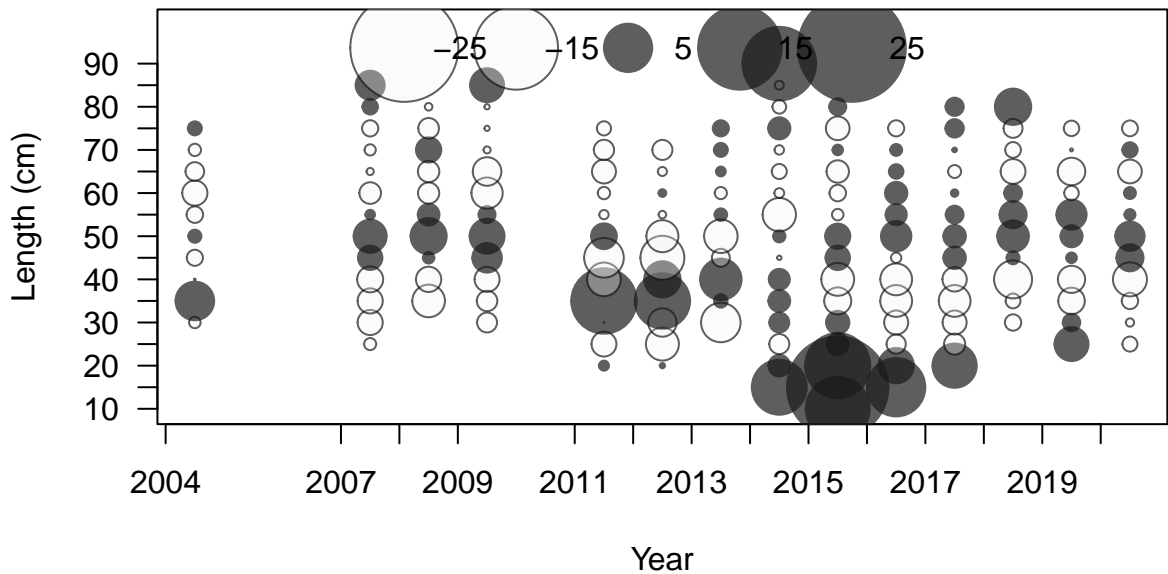




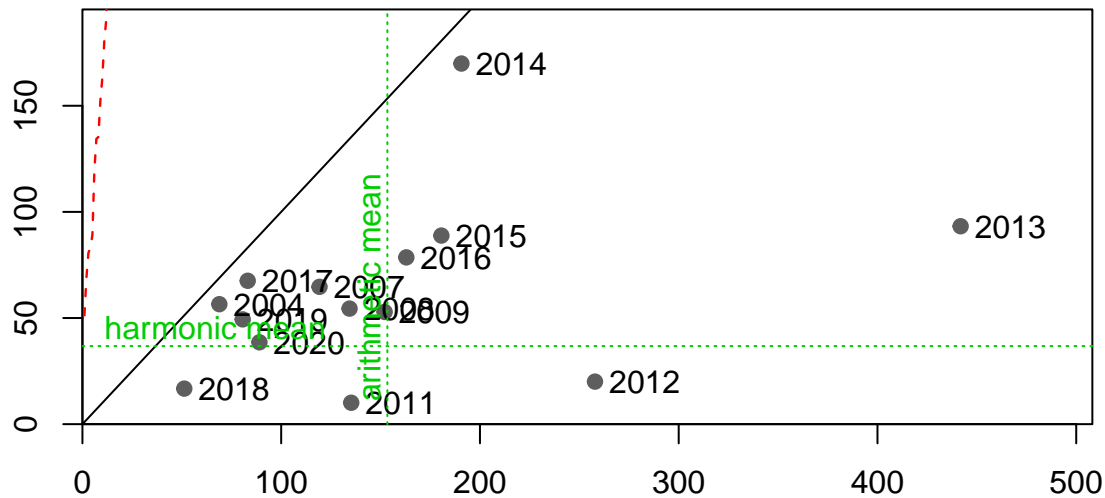
Proportion



Length (cm)

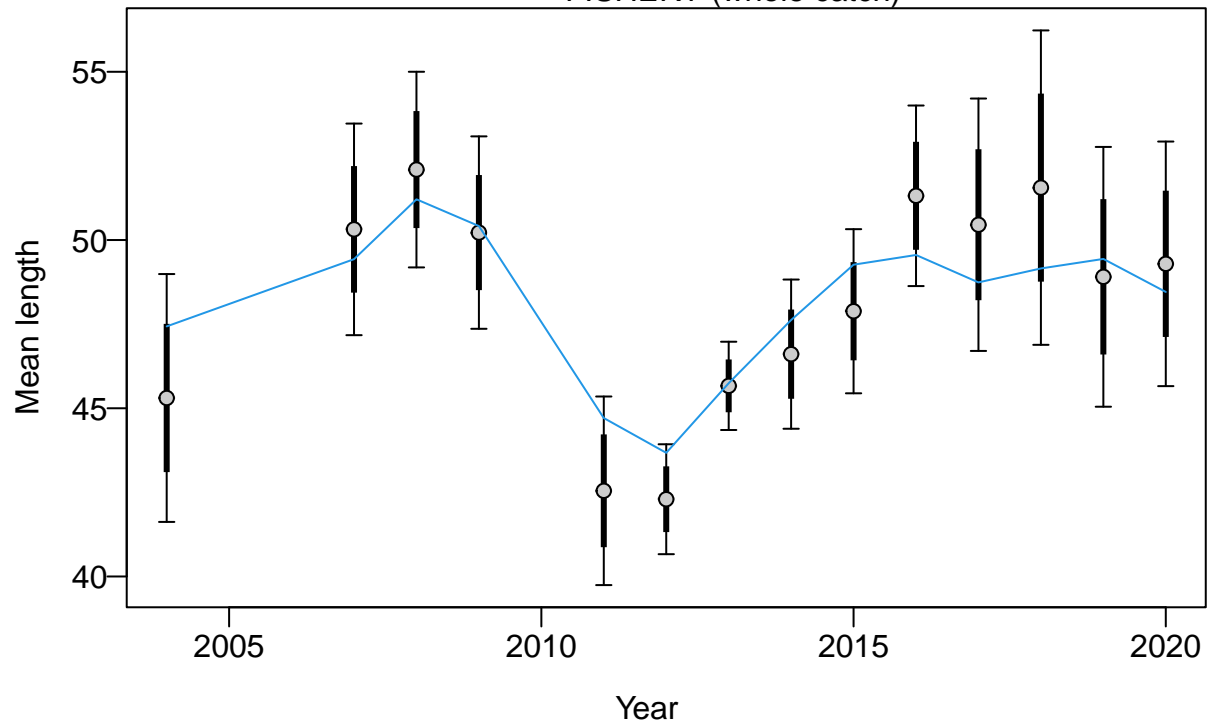


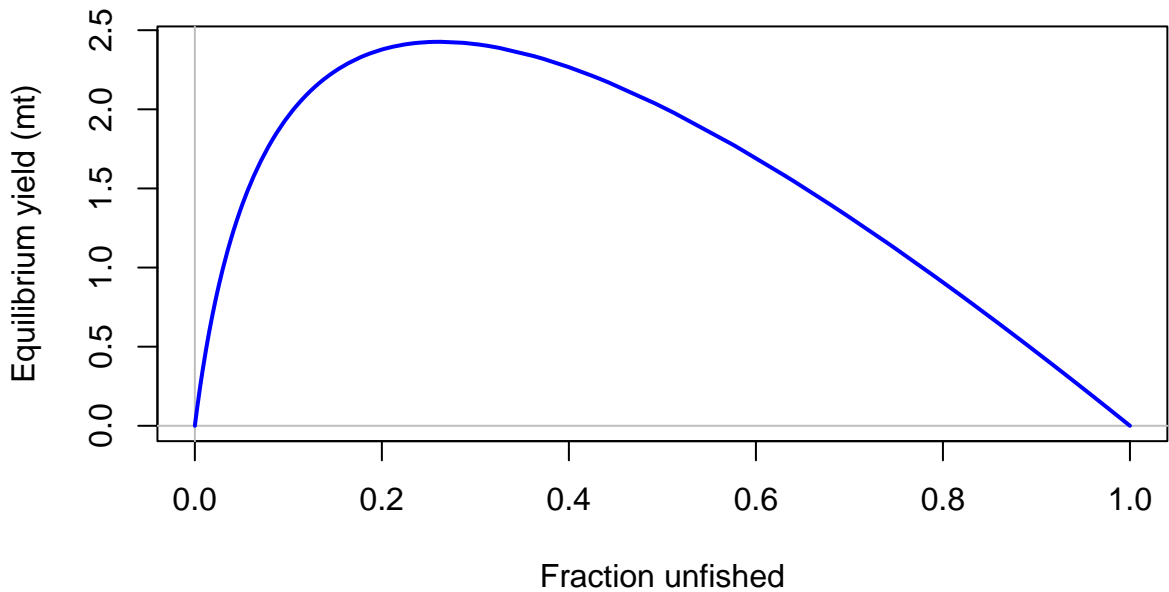
Effective sample size

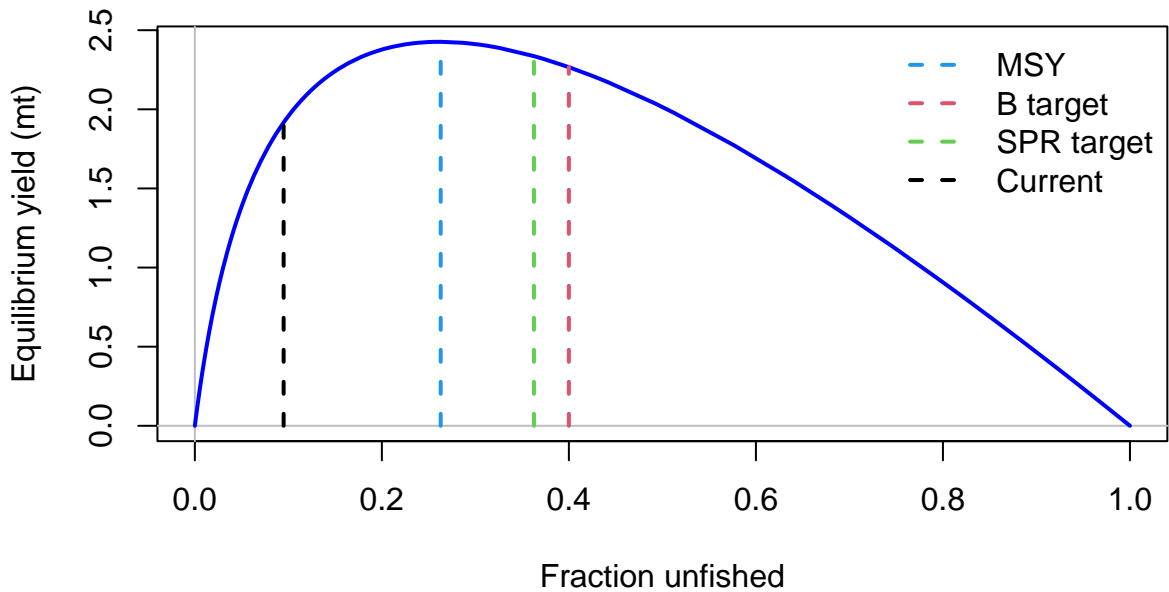


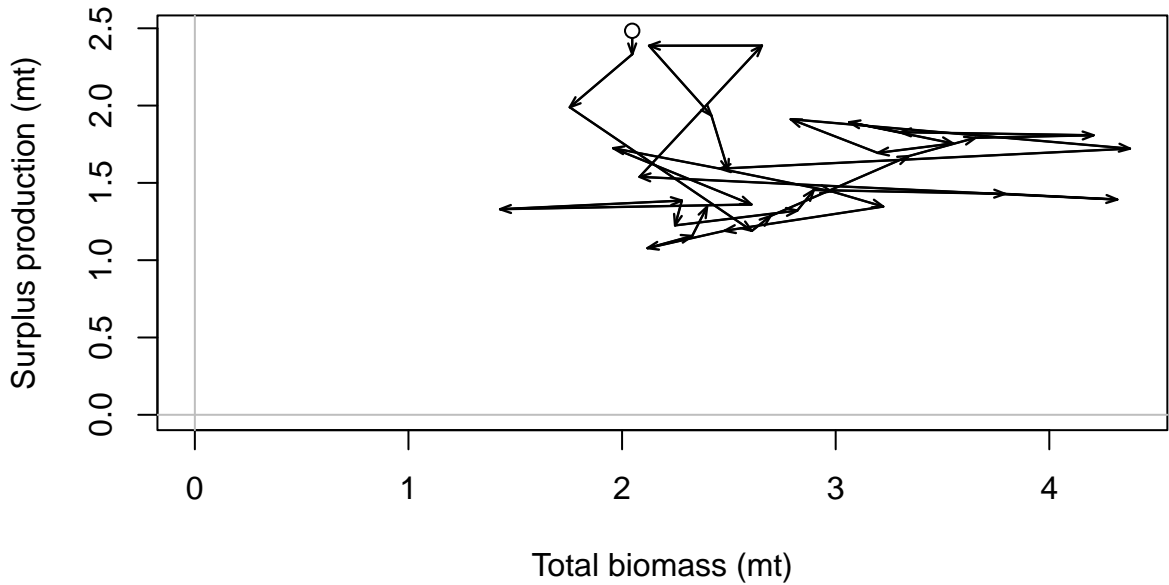
Observed sample size

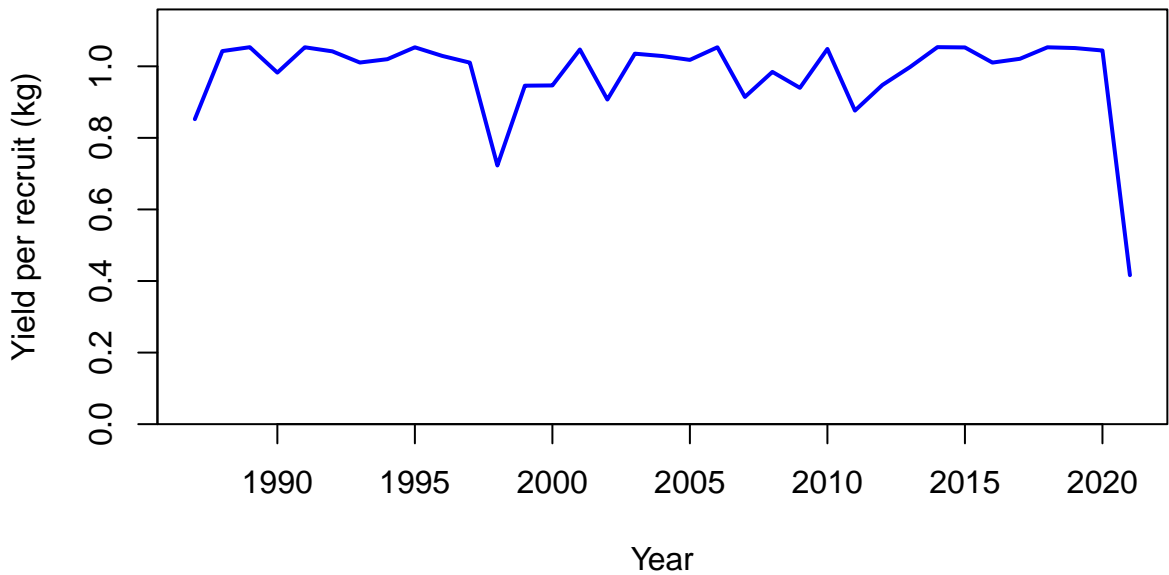
FISHERY (whole catch)

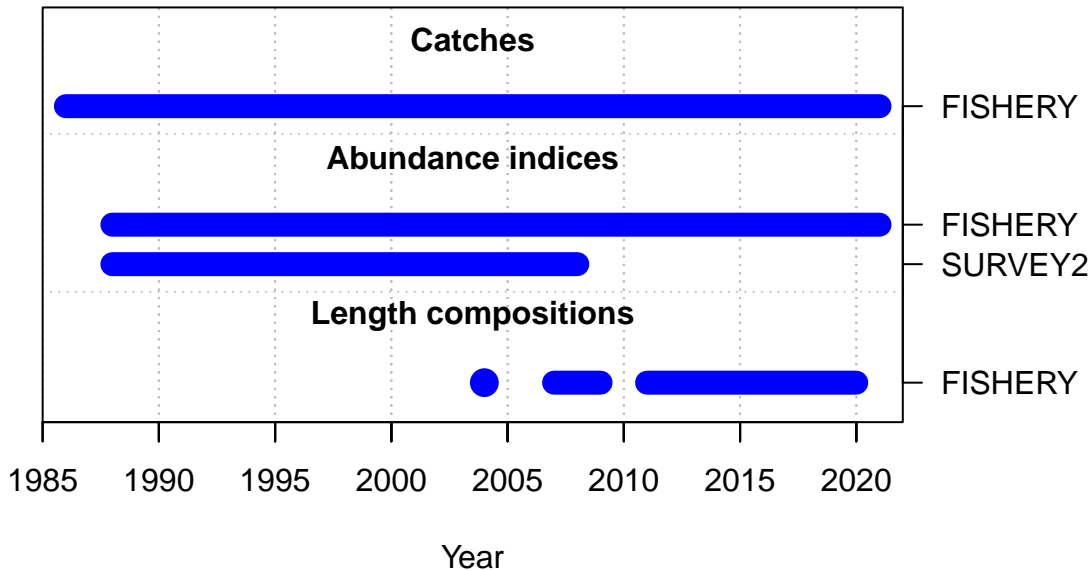


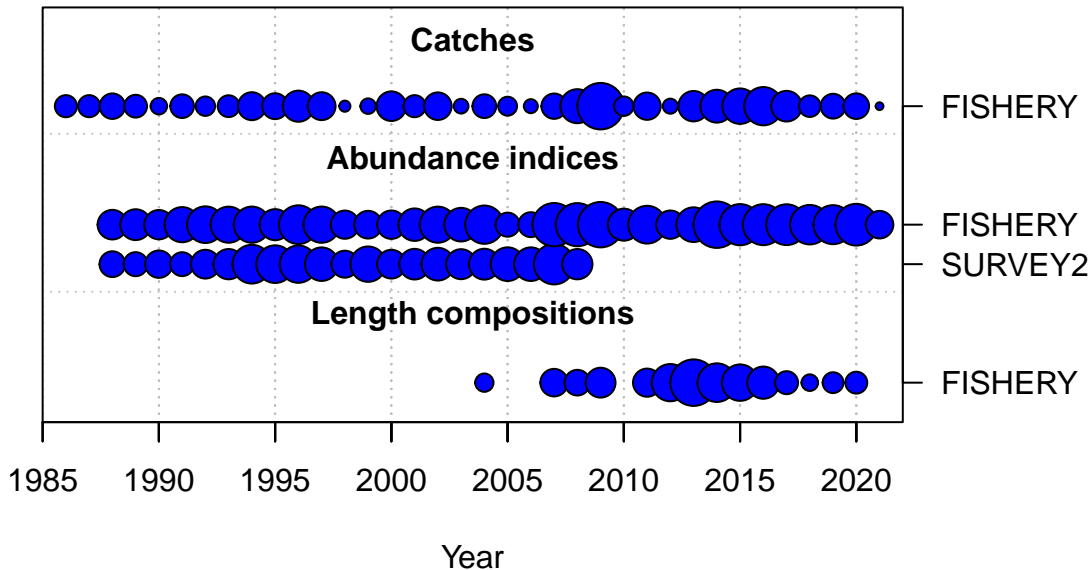




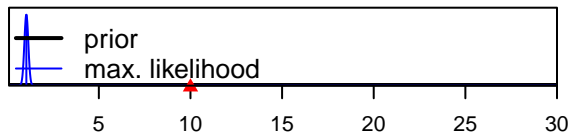




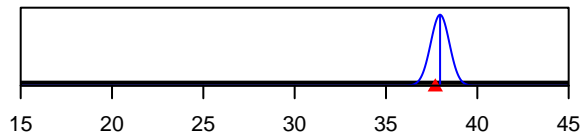




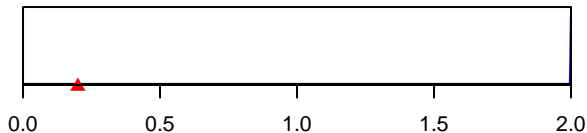
SR_LN(R0)



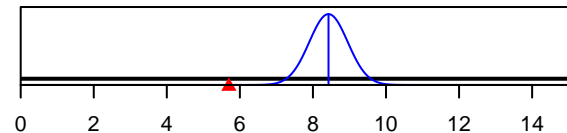
Size_inflection_FISHERY(1)



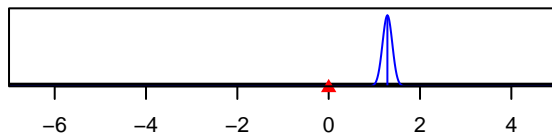
InitF_seas_1_flt_1FISHERY



Size_95%width_FISHERY(1)



LnQ_base_FISHERY(1)



LnQ_base_SURVEY2(2)

