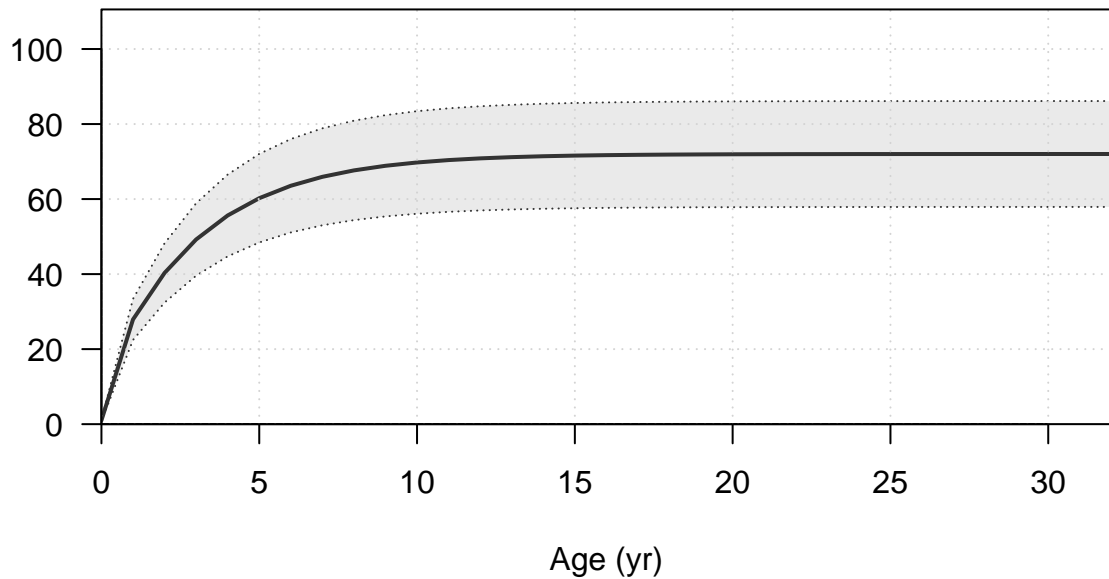
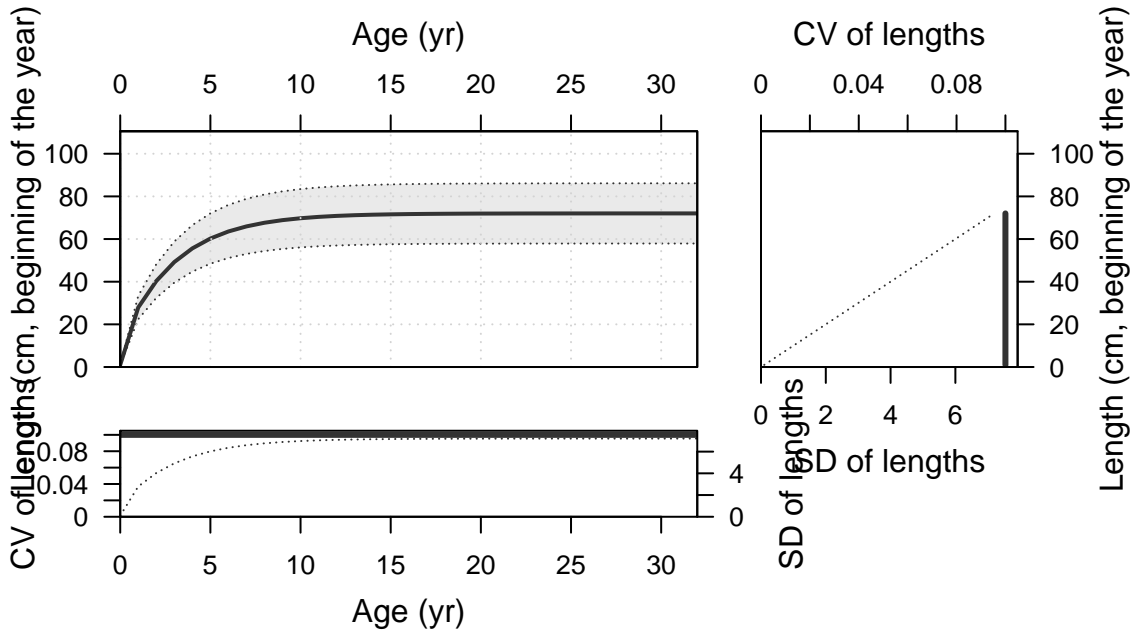
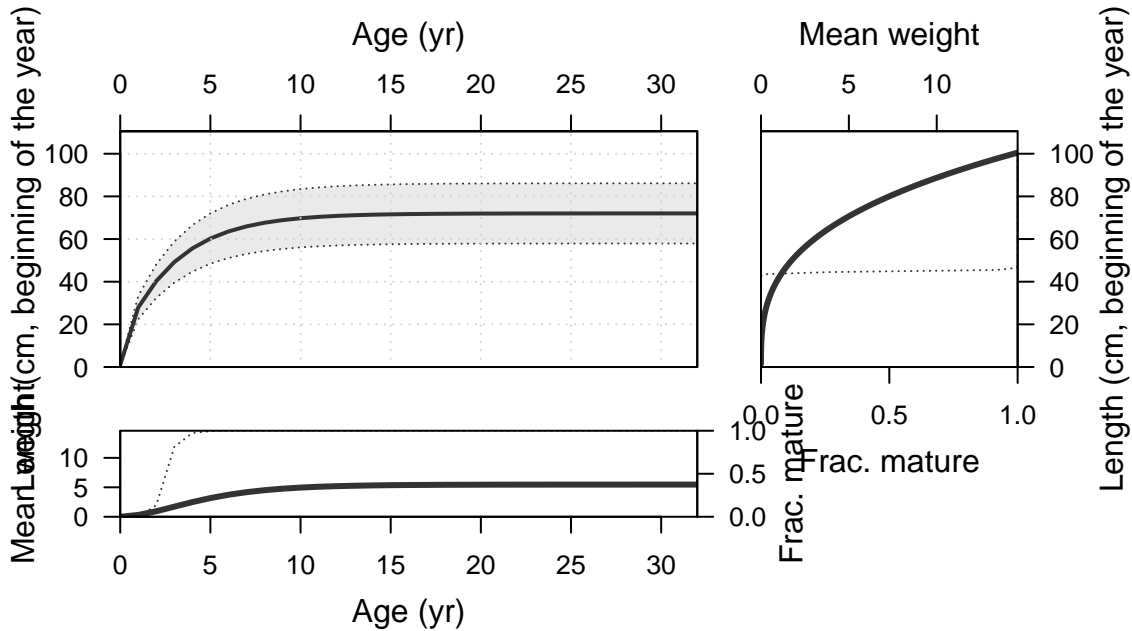


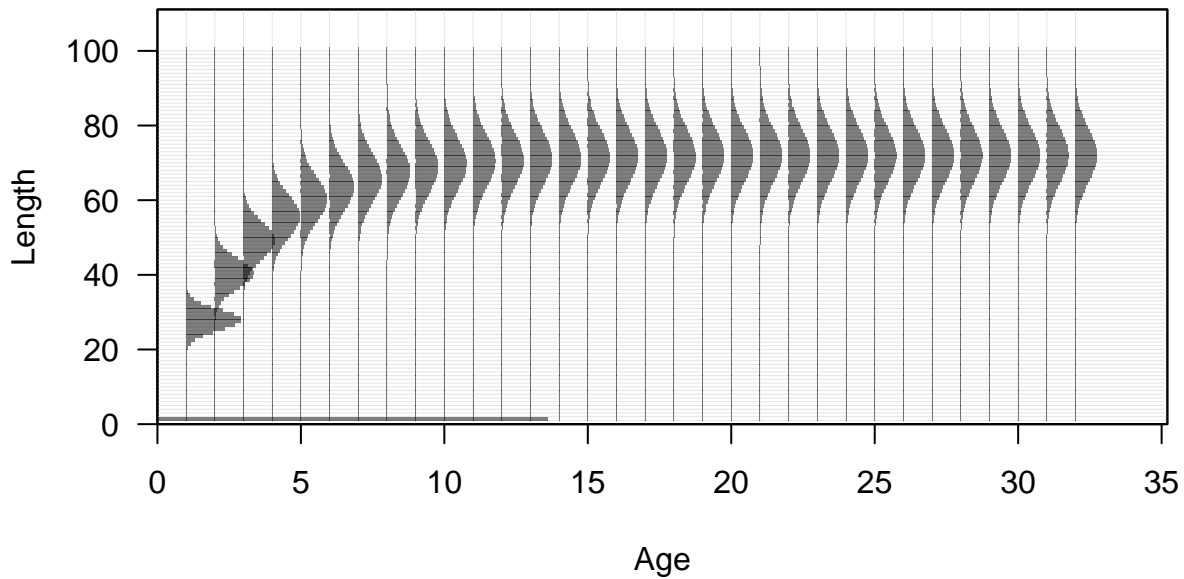
Plots created using the 'r4ss' package in R
Stock Synthesis version: 3.30.19.0
StartTime: Fri Jul 08 11:11:54 2022
Data_File: data.ss
Control_File: control.ss

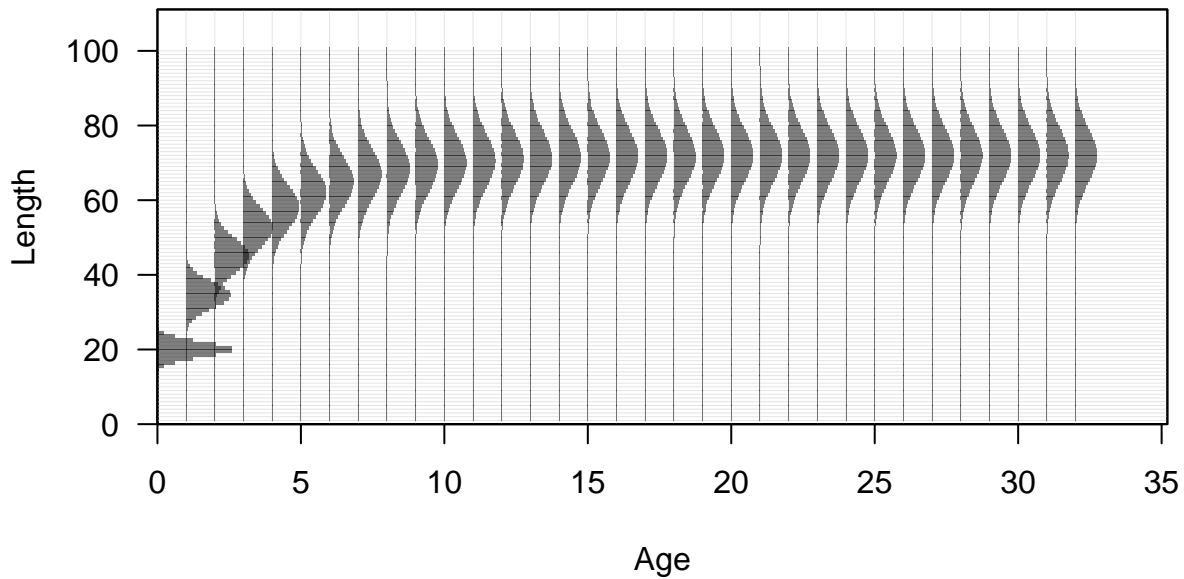
Length (cm, beginning of the year)

















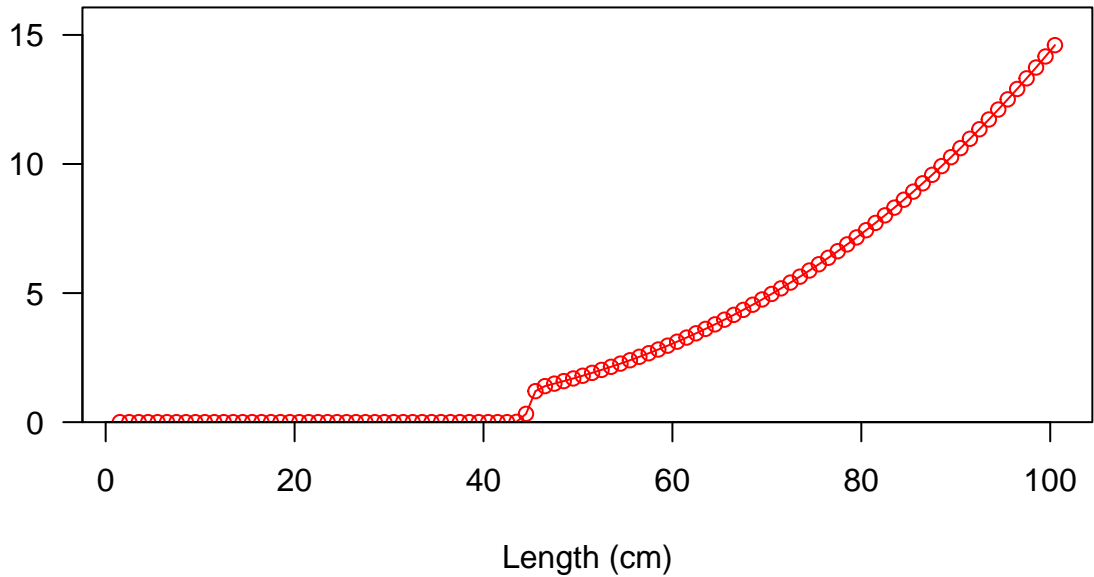
Fecundity

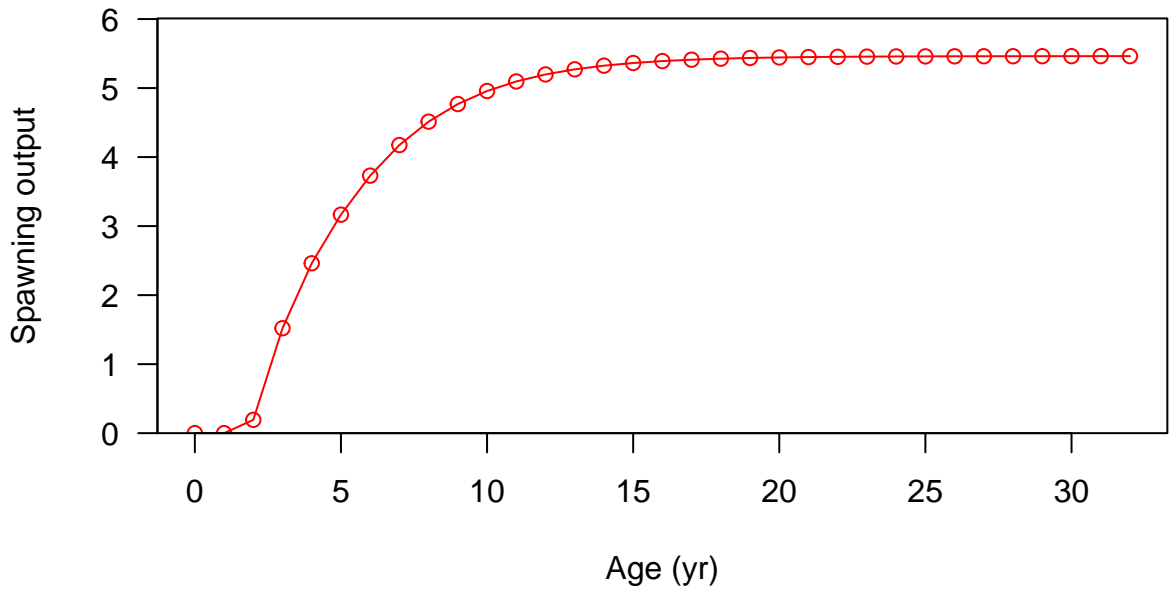


Fecundity

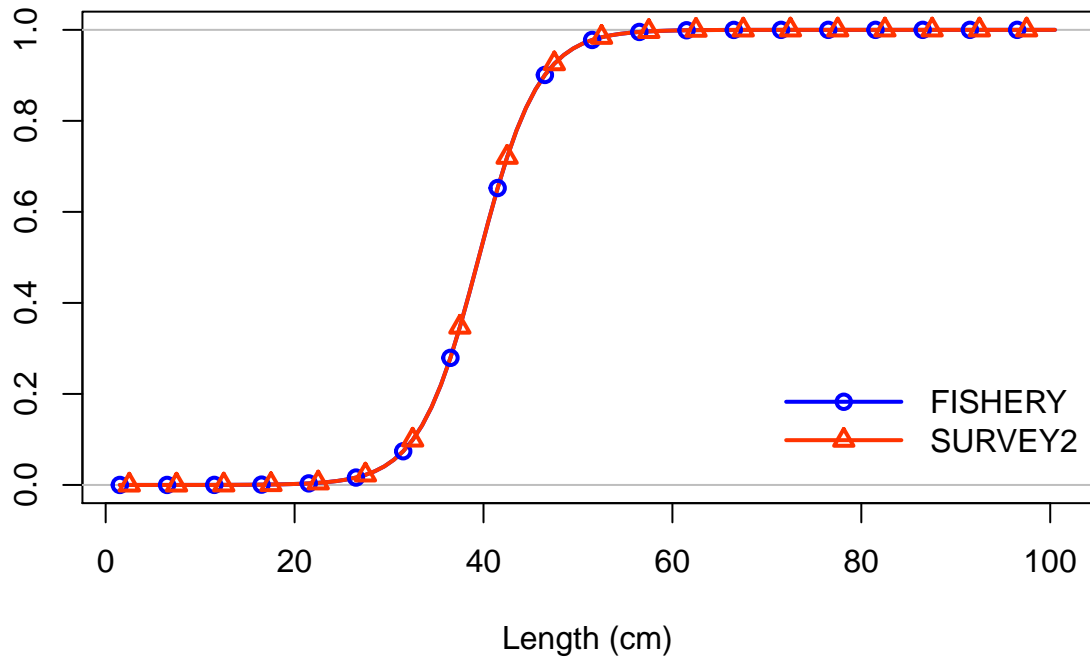


Spawning output

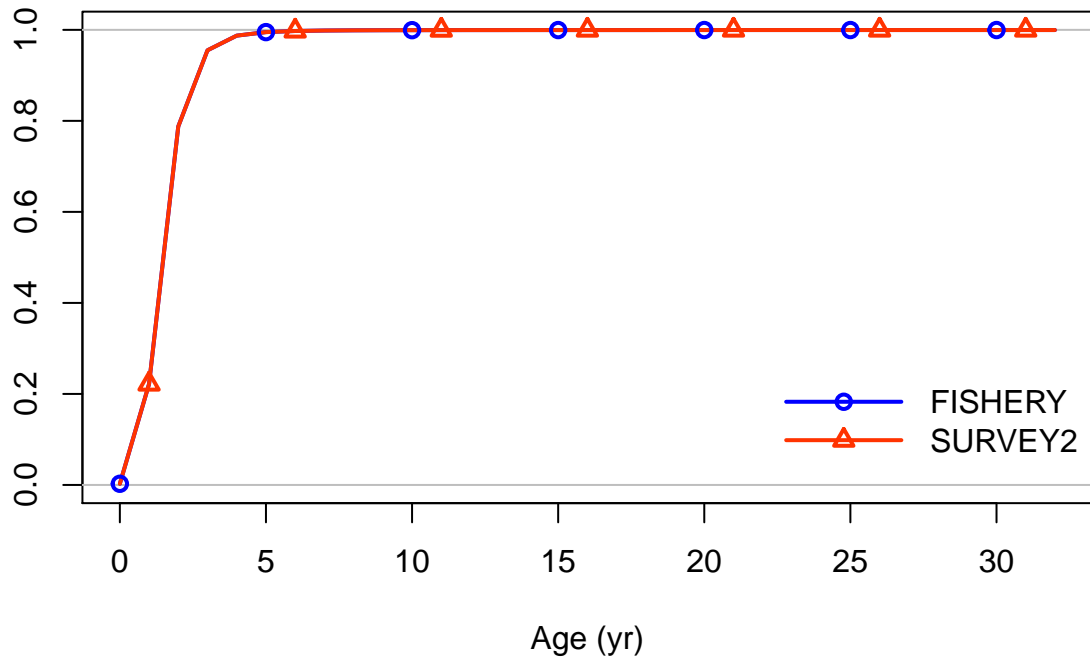




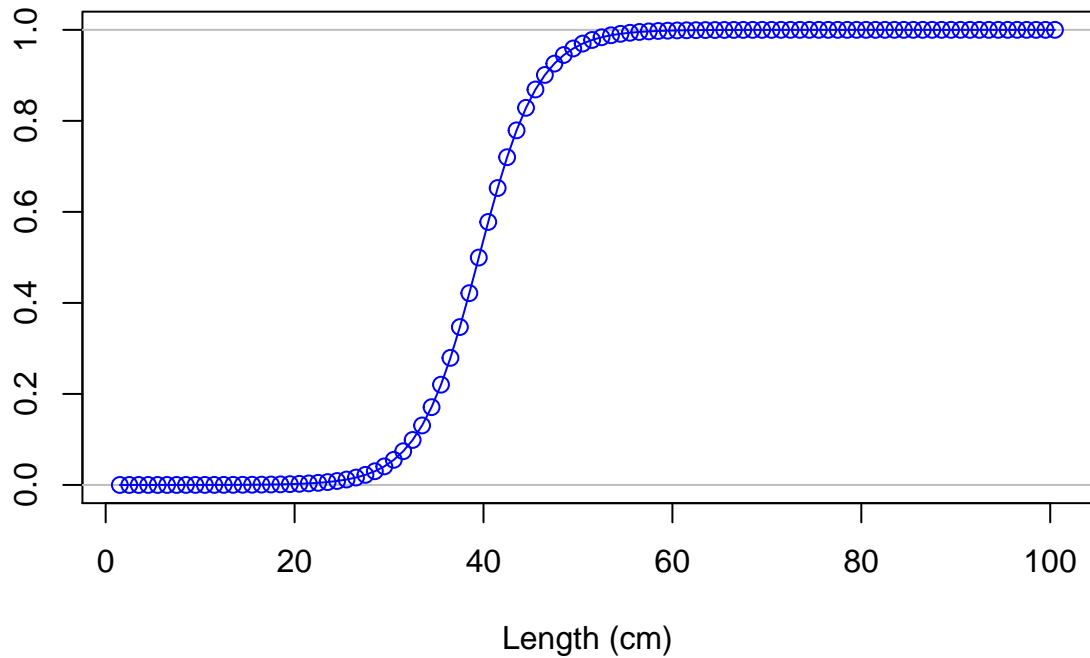
Selectivity



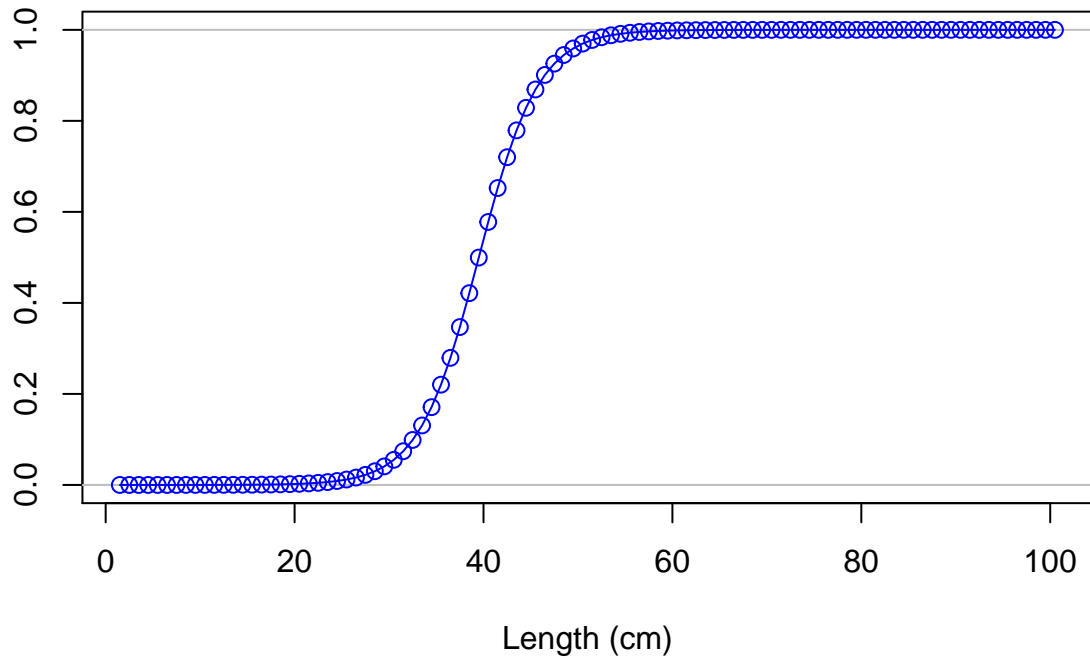
Selectivity

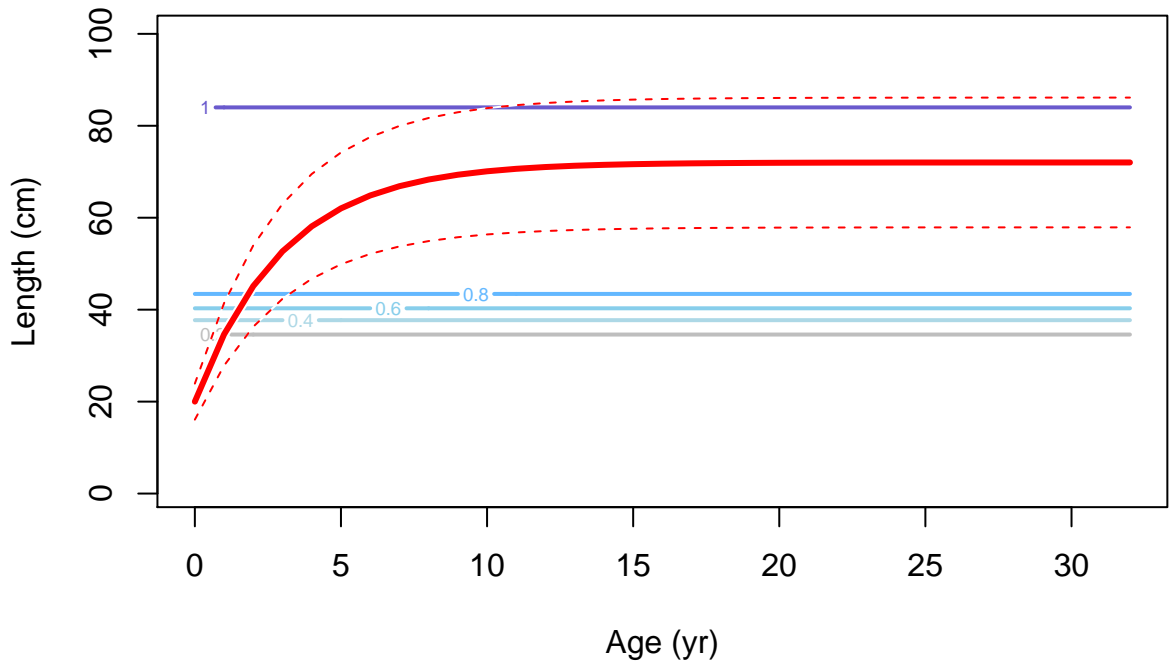


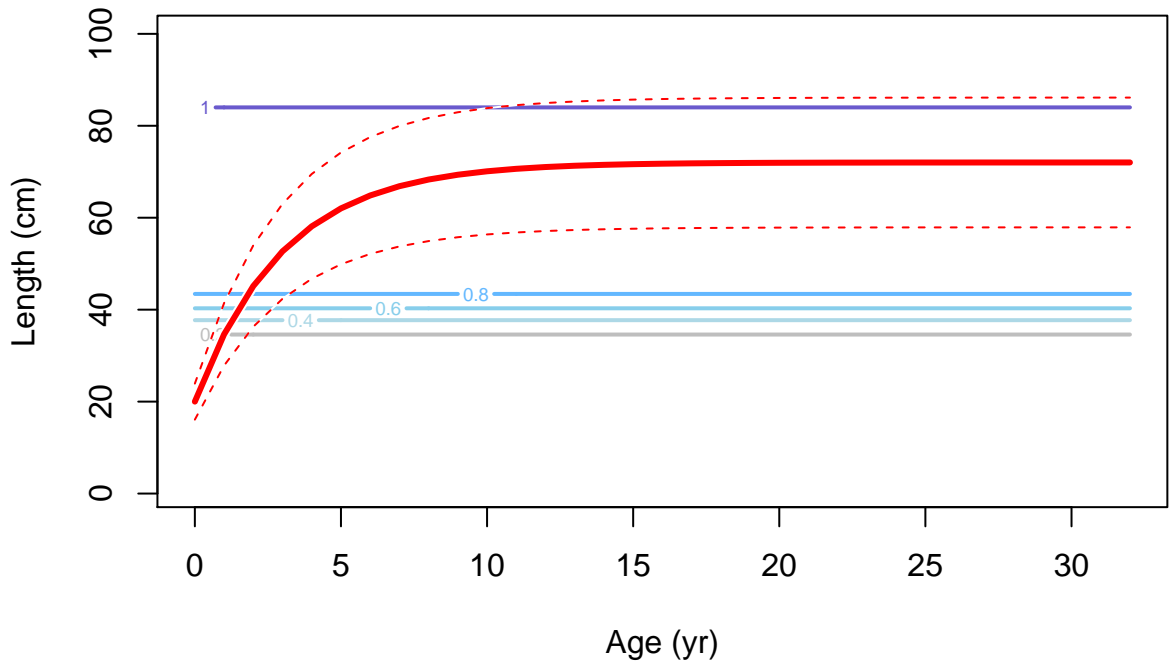
Selectivity

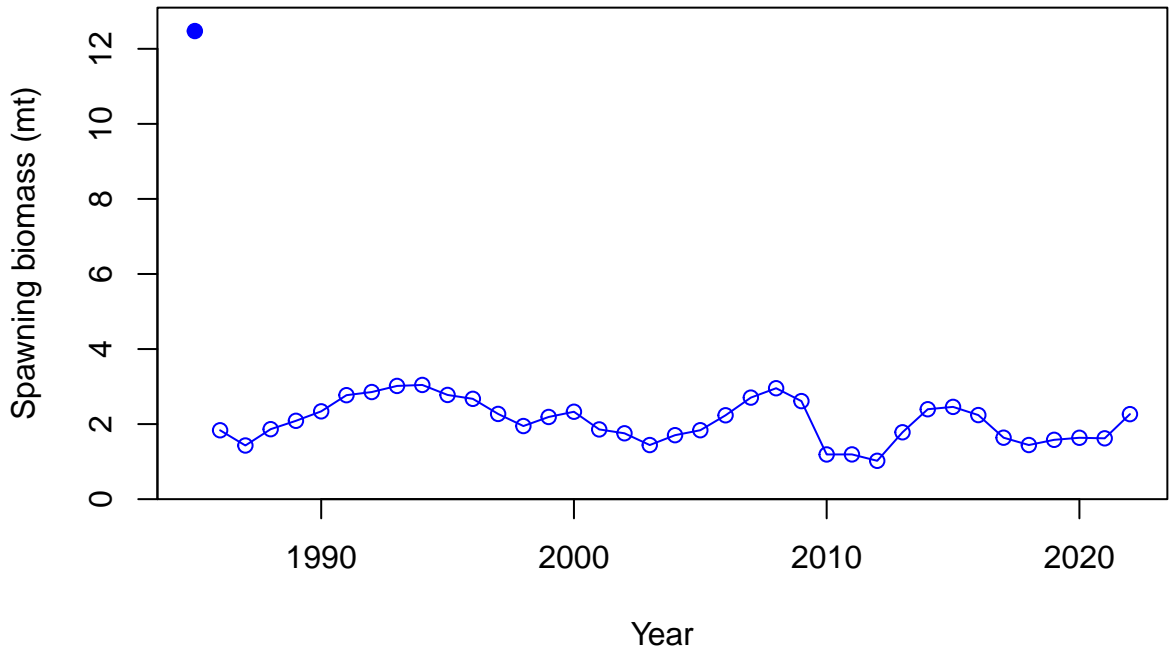


Selectivity

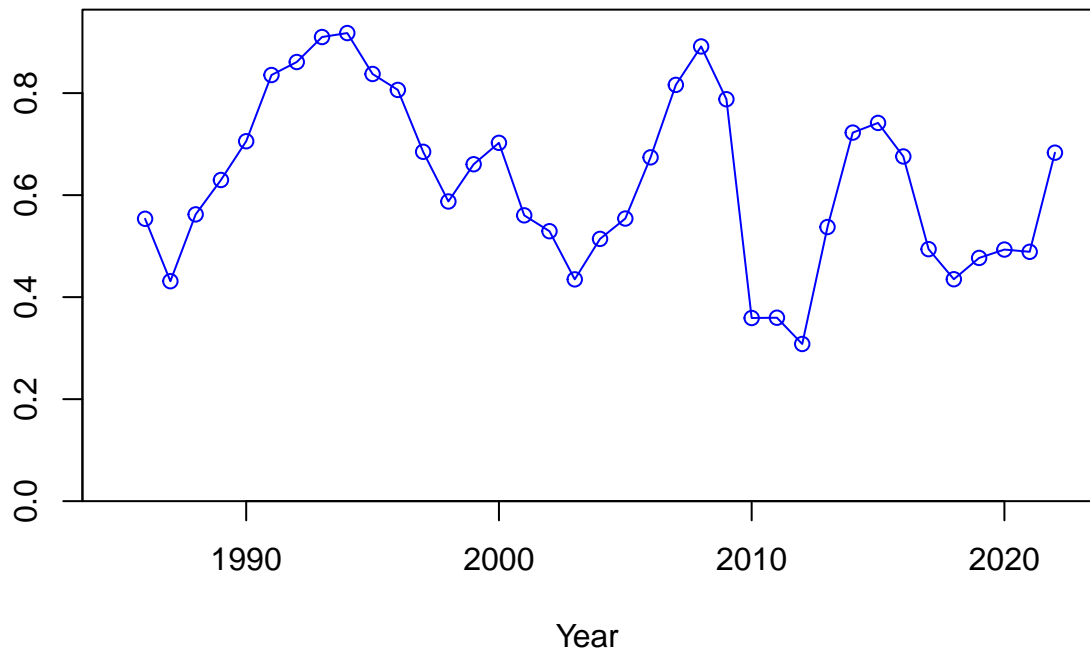


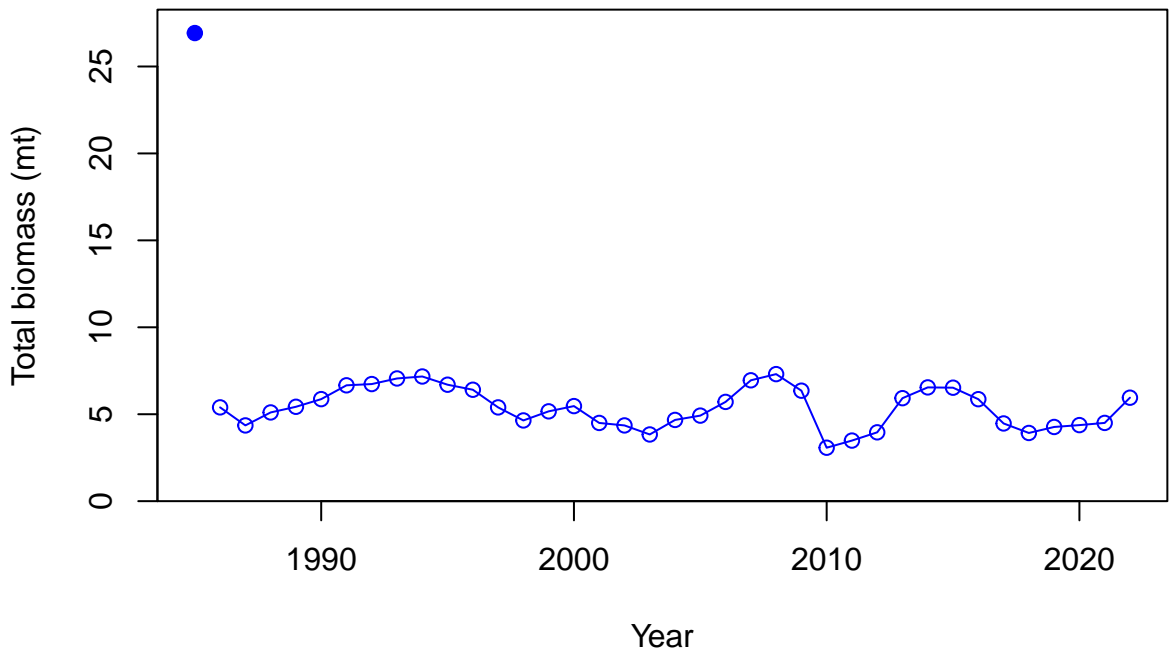


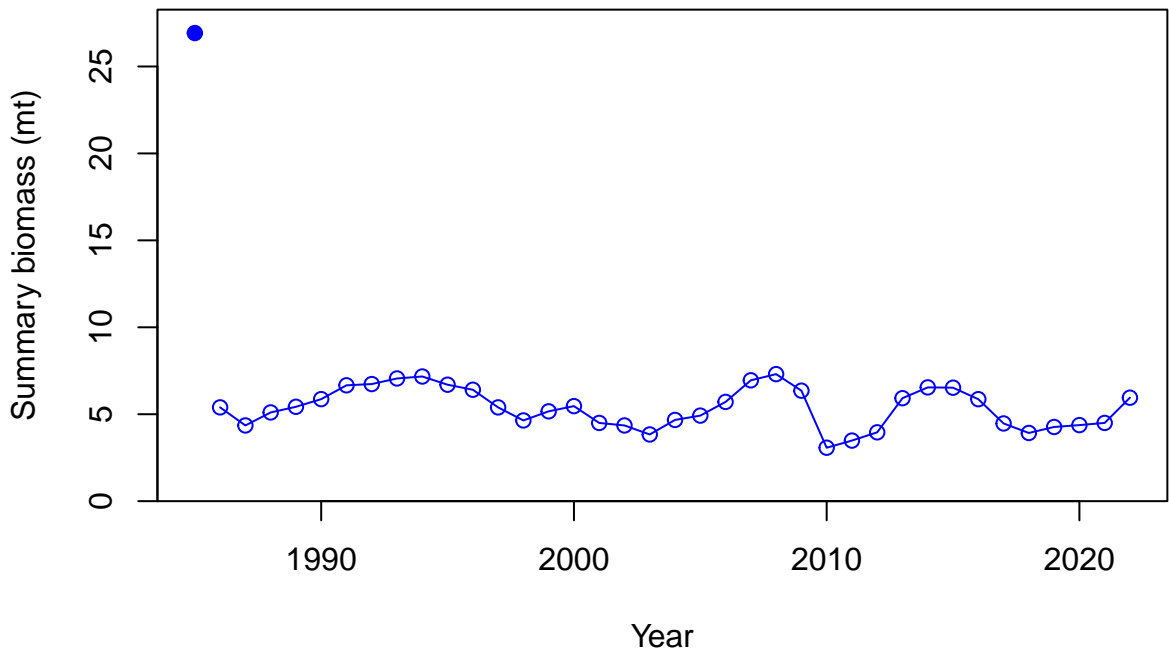




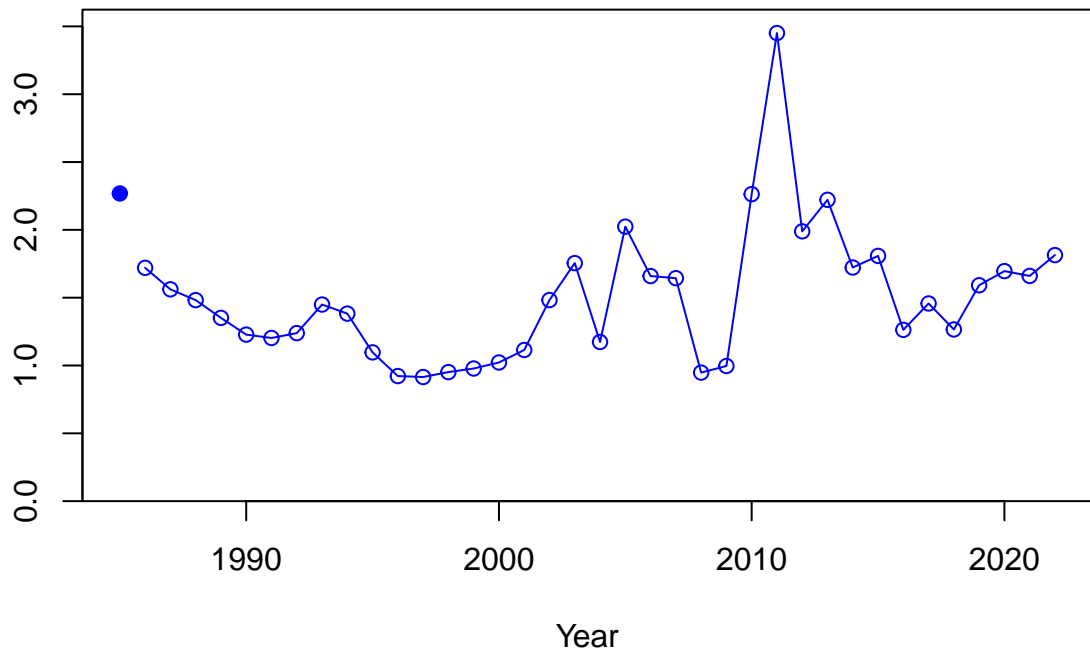
Relative spawning biomass: B/B_MSY



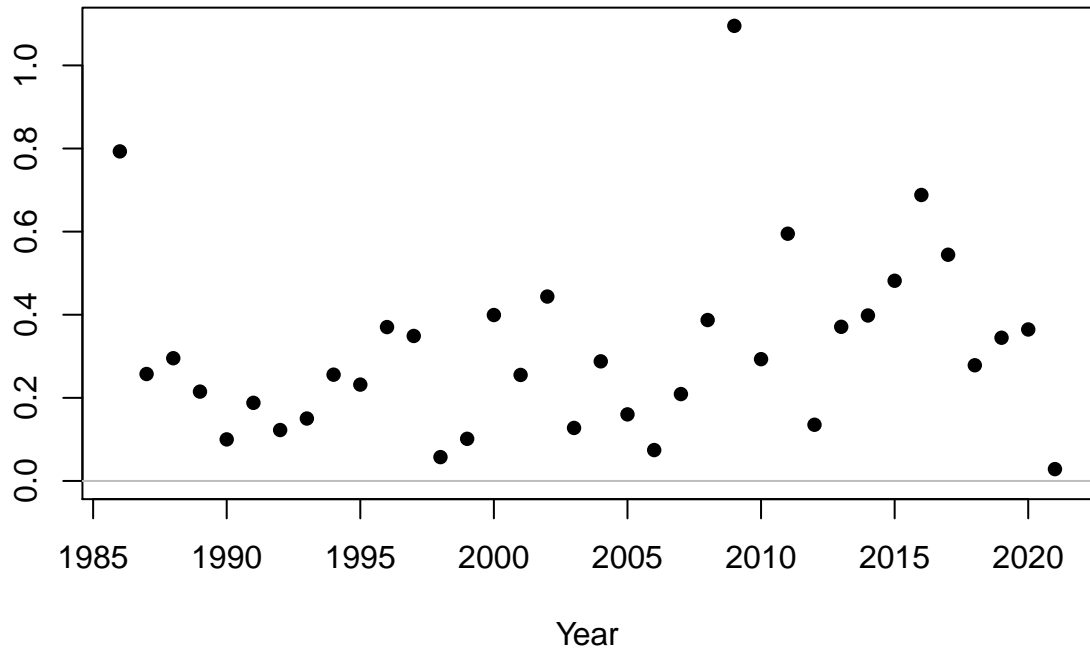


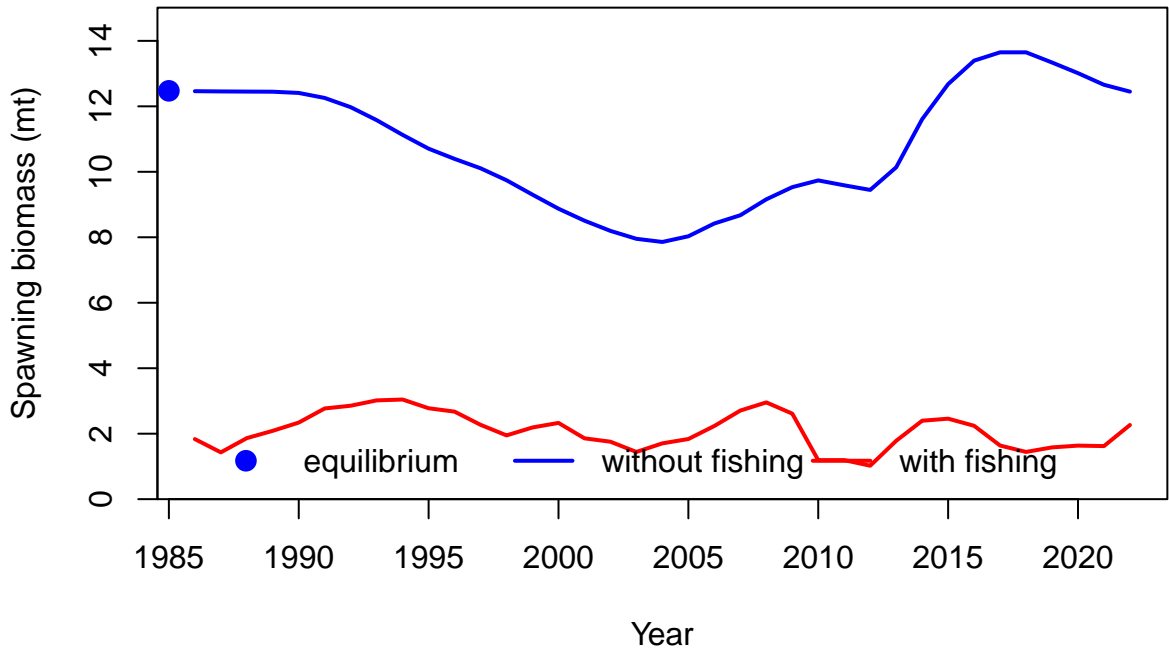


Age-0 recruits (1,000s)



Summary Fishing Mortality





Log recruitment deviation

0.5
0.0
-0.5

1970

1980

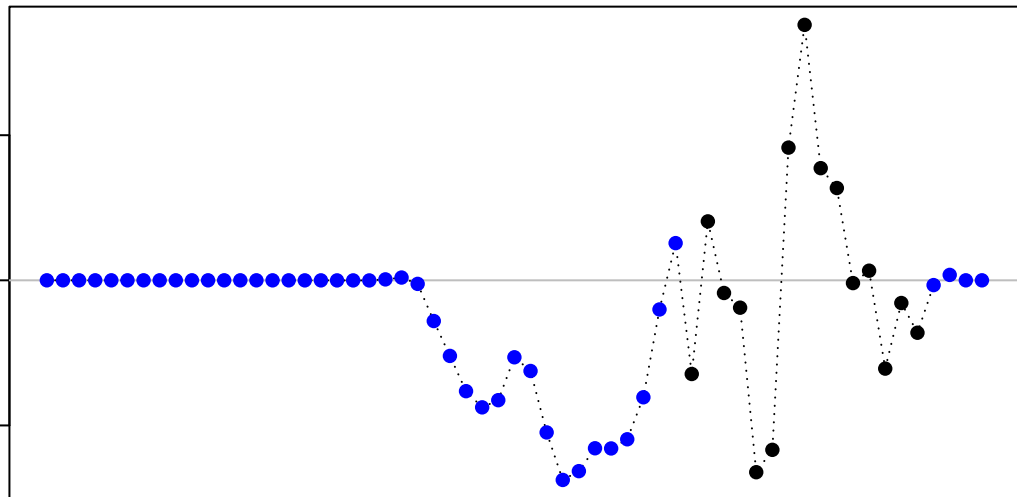
1990

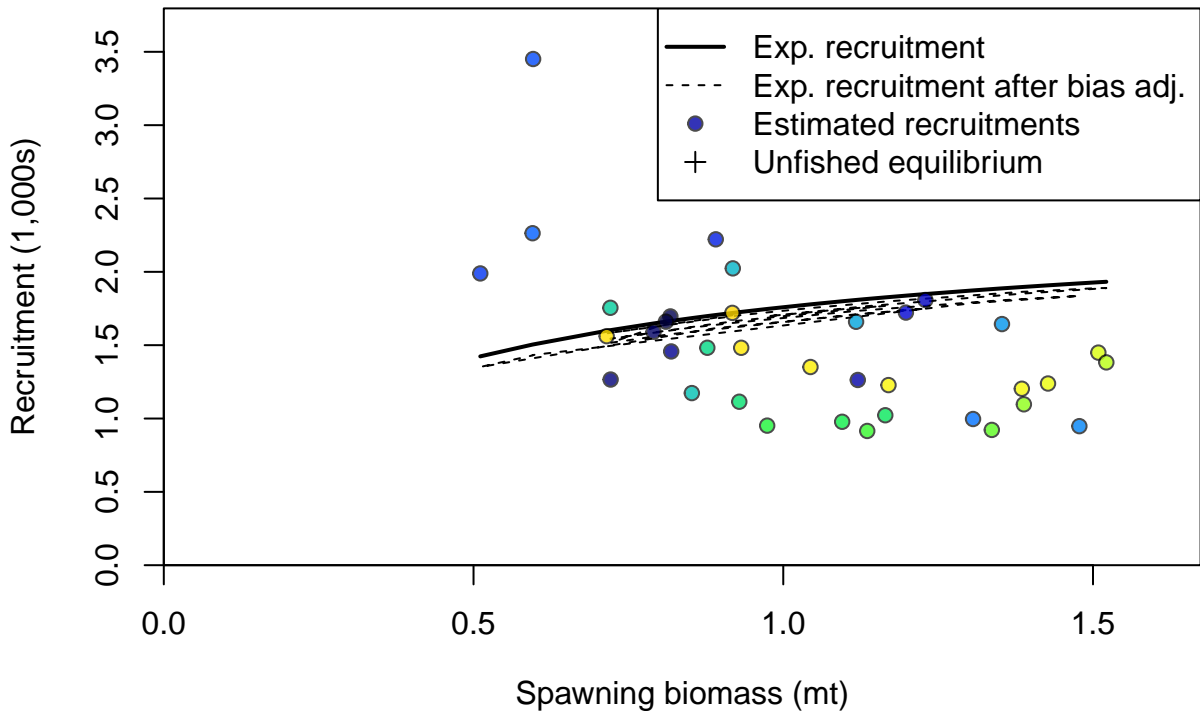
2000

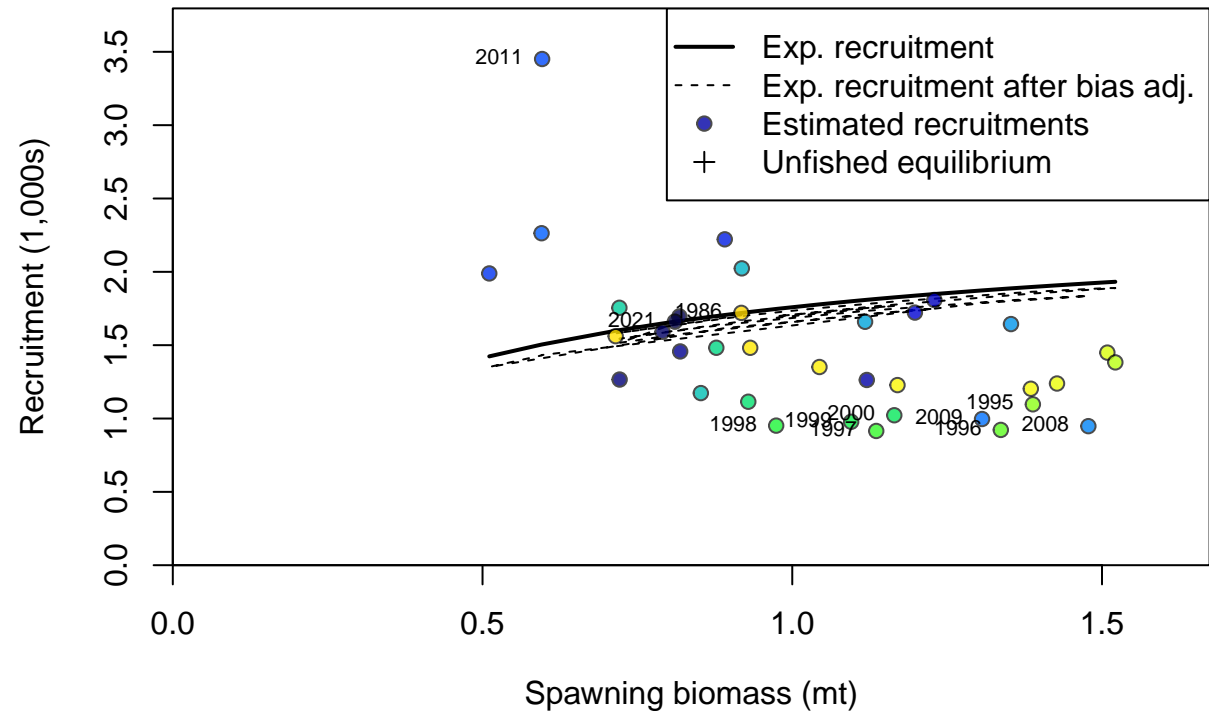
2010

2020

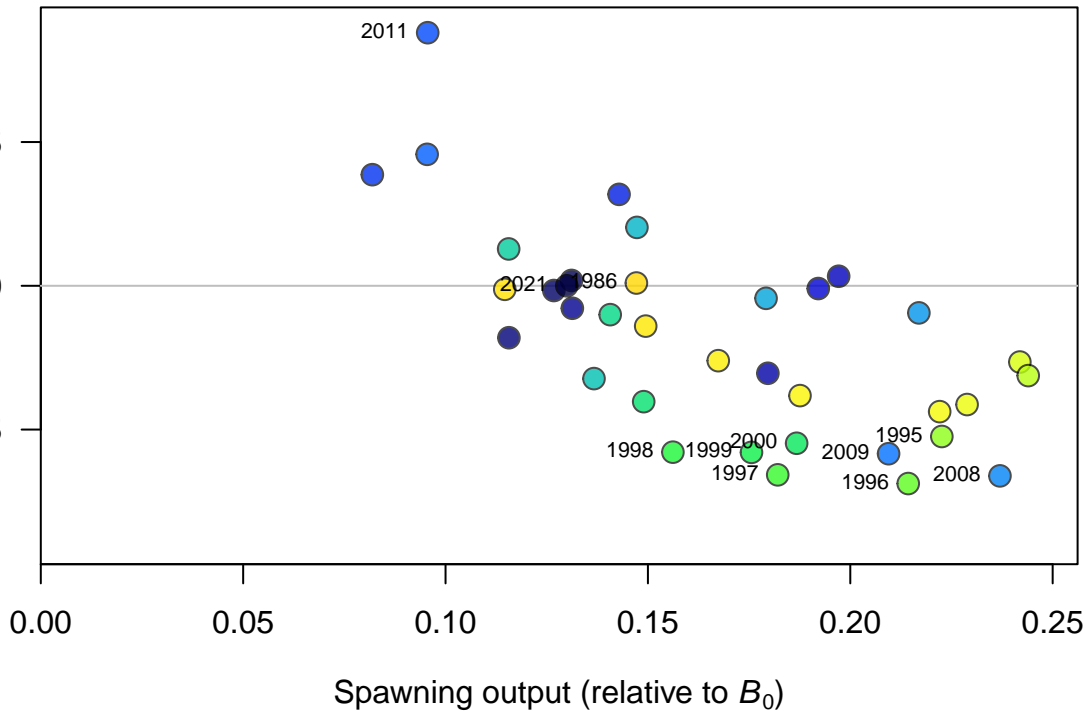
Year

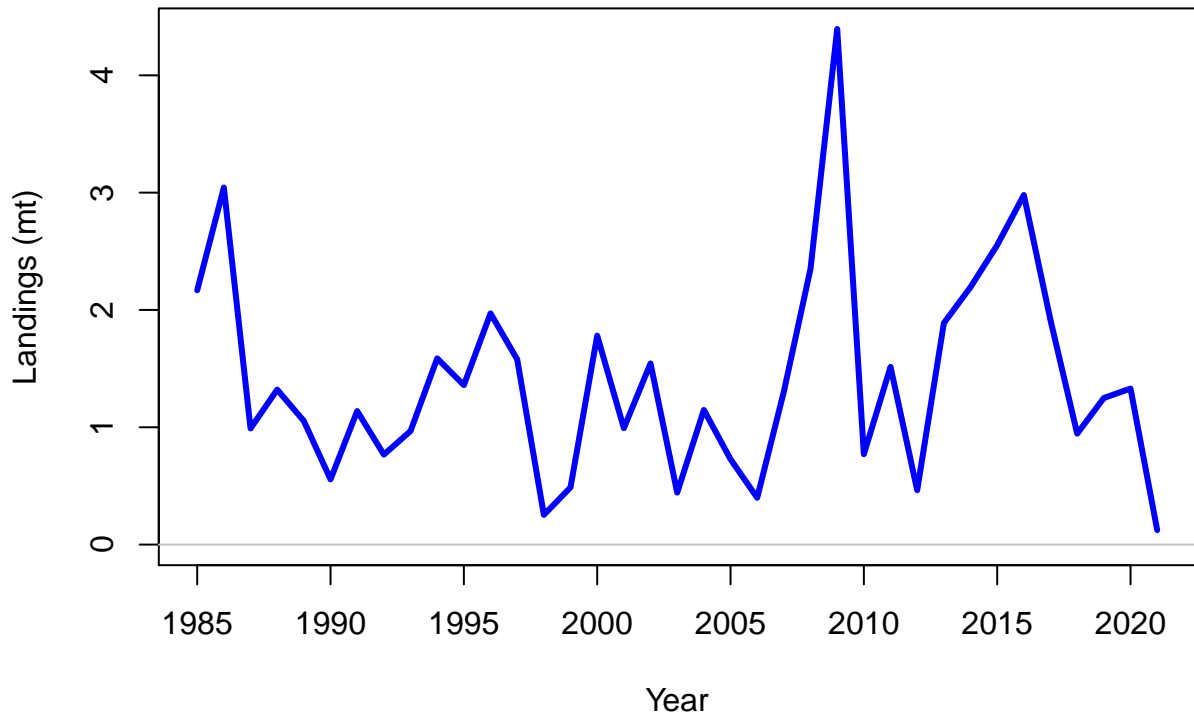


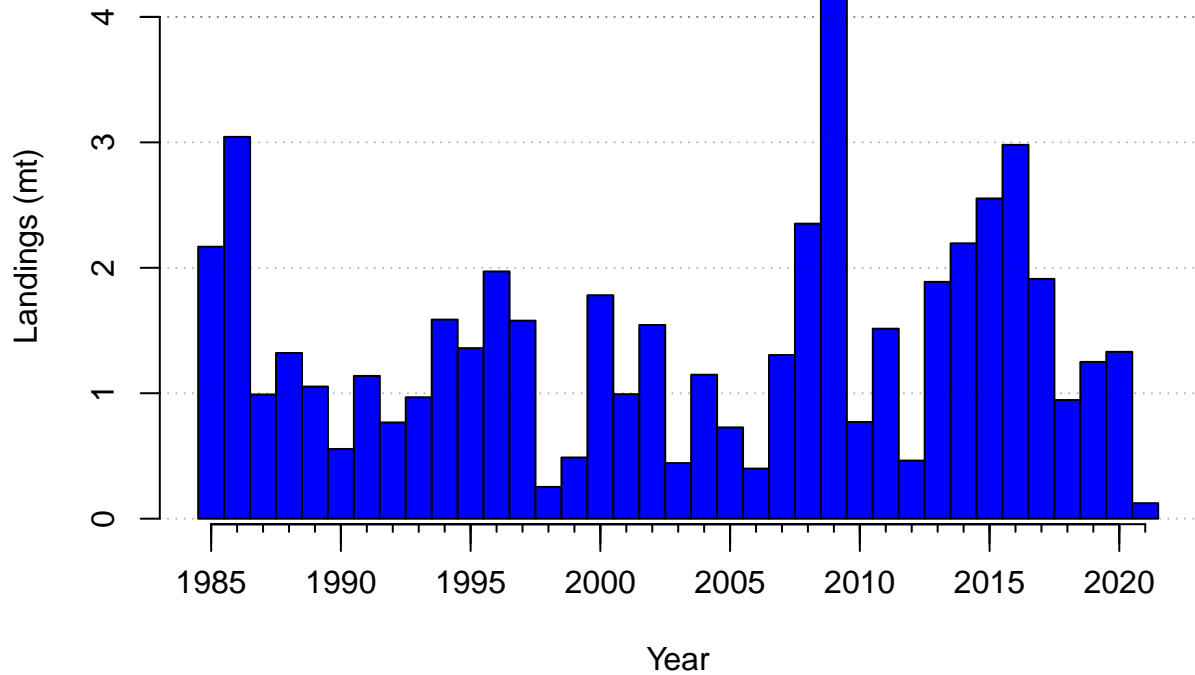




Log recruitment deviation







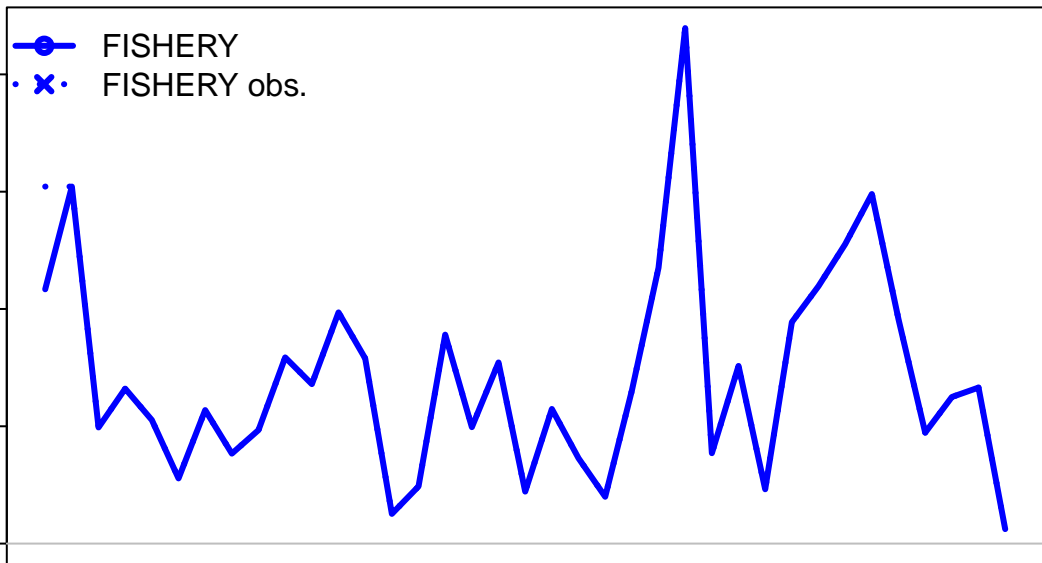
Observed and expected Landings (mt)

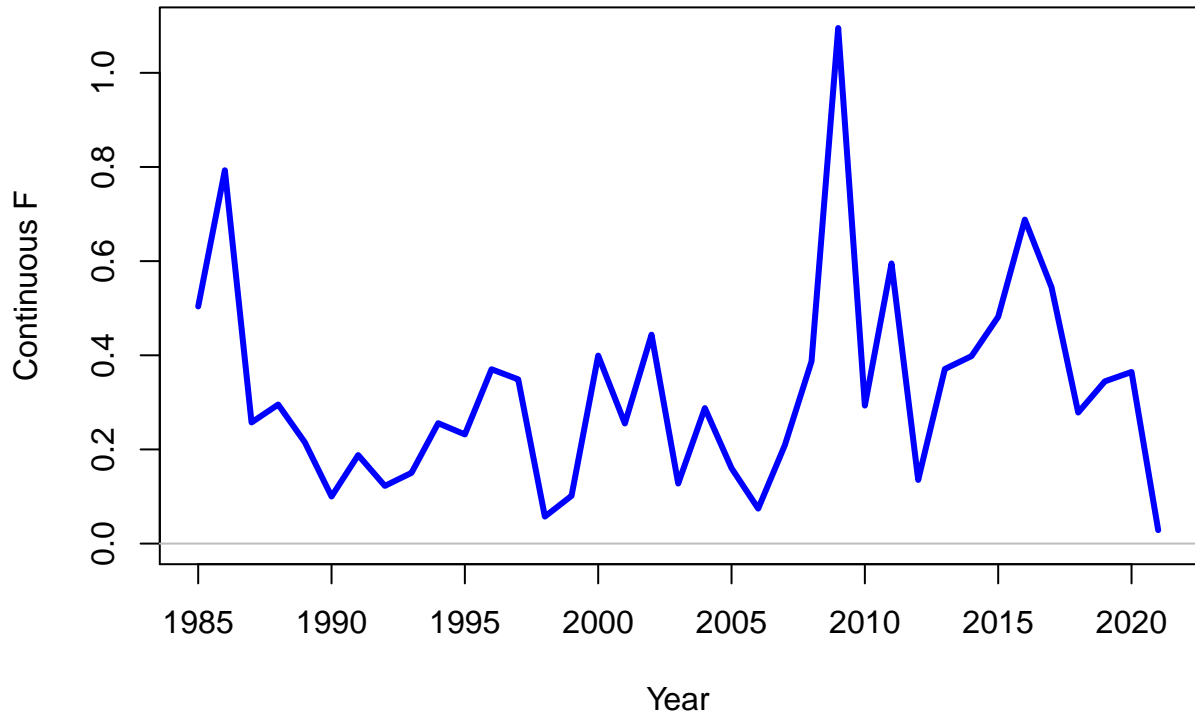
FISHERY
FISHERY obs.

4
3
2
1
0

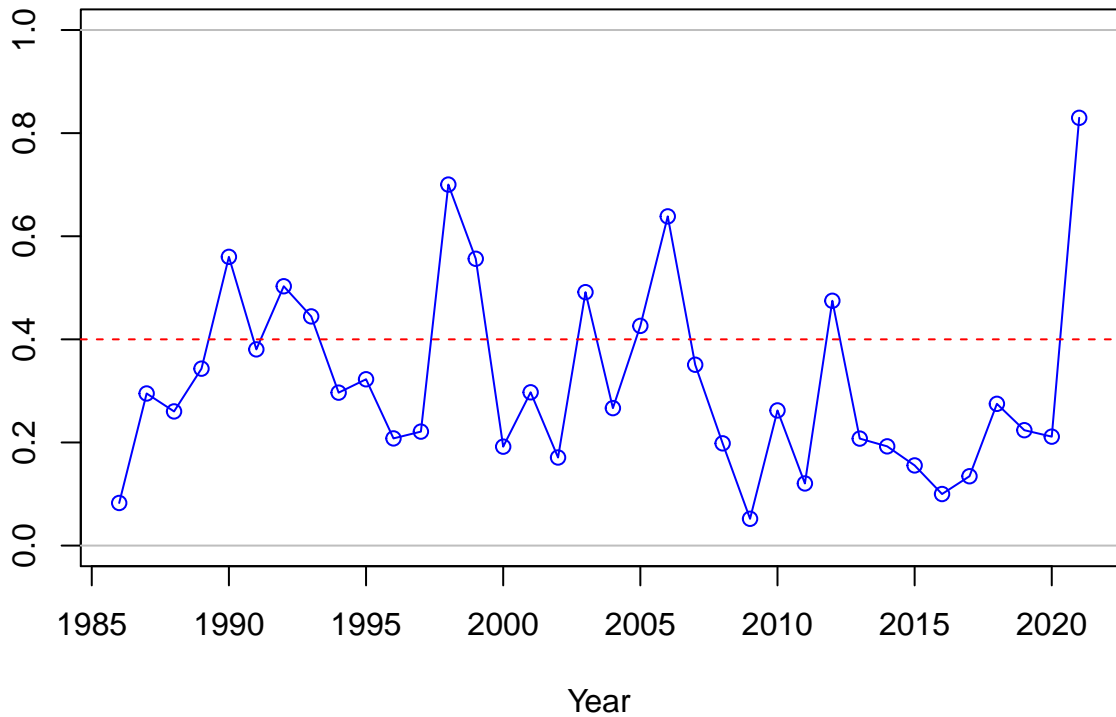
1985 1990 1995 2000 2005 2010 2015 2020

Year

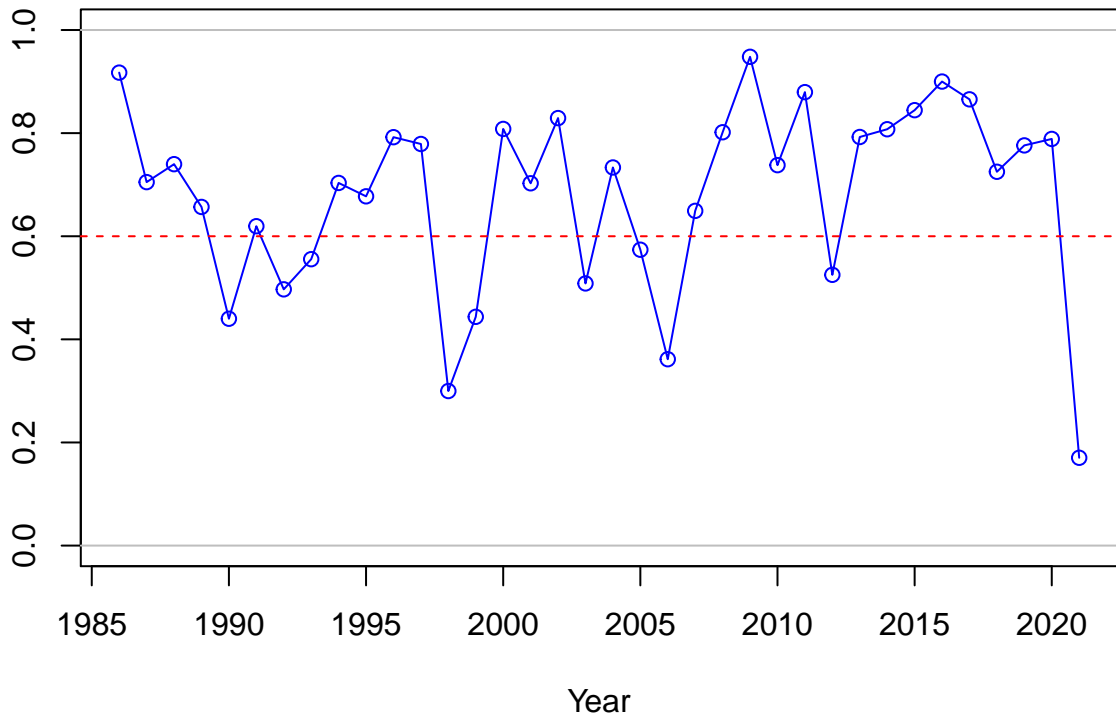




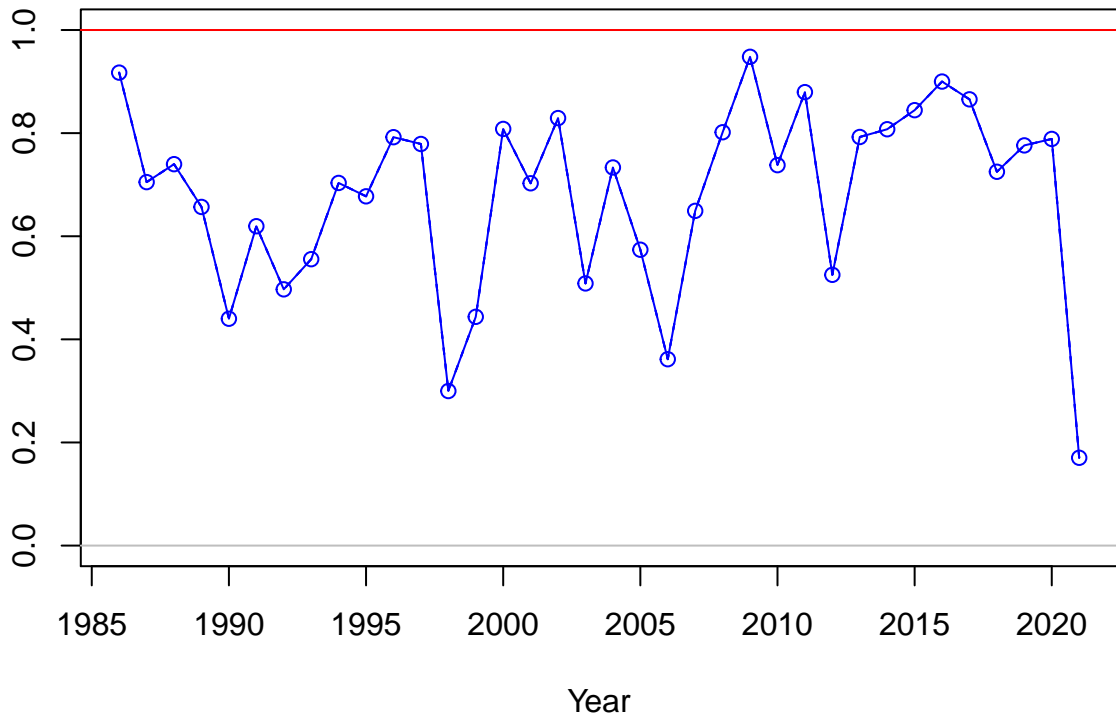
SPR



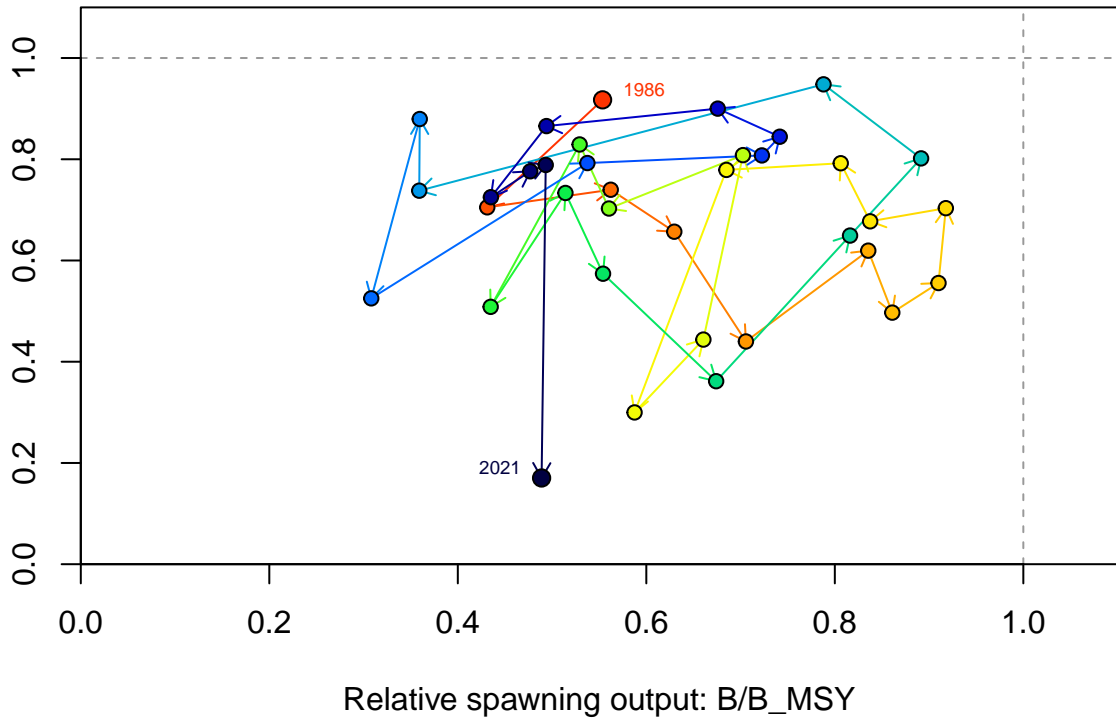
1-SPR



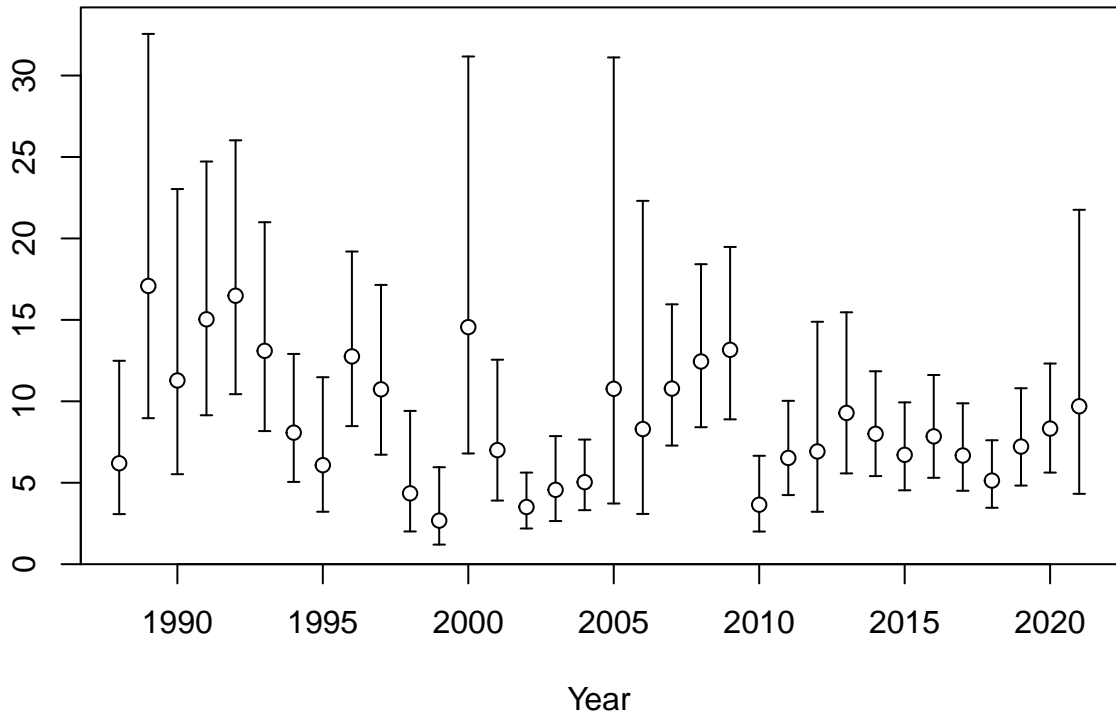
Fishing intensity: 1-SPR



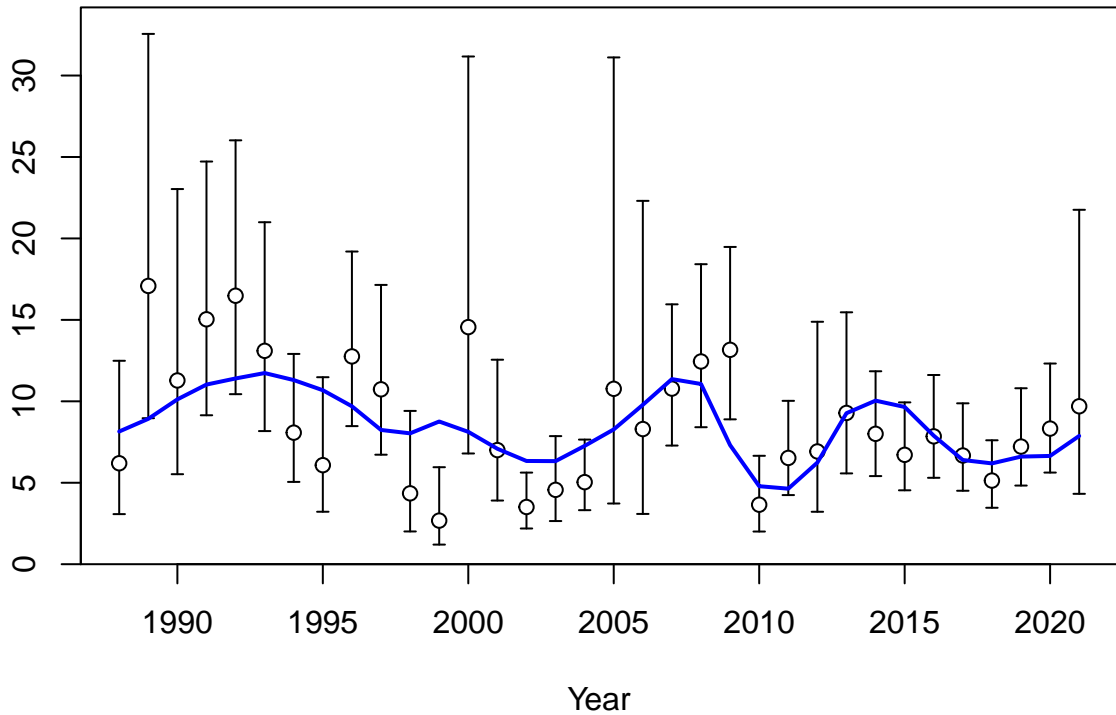
Fishing intensity: 1-SPR

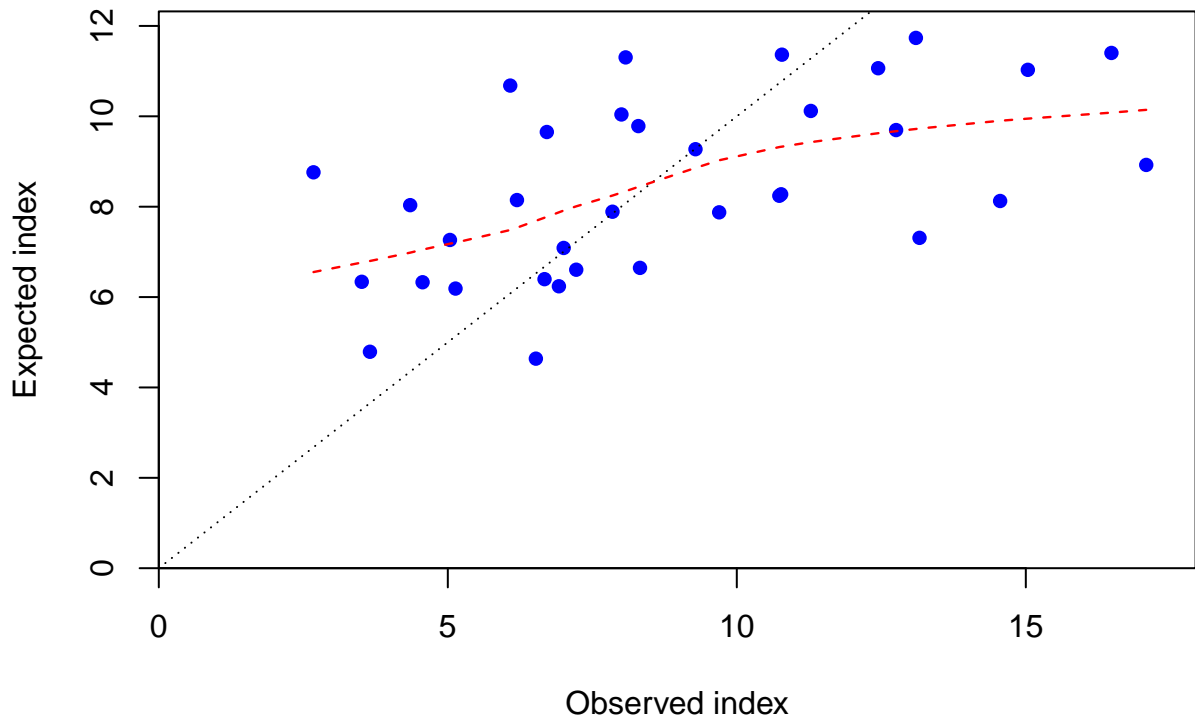


Index

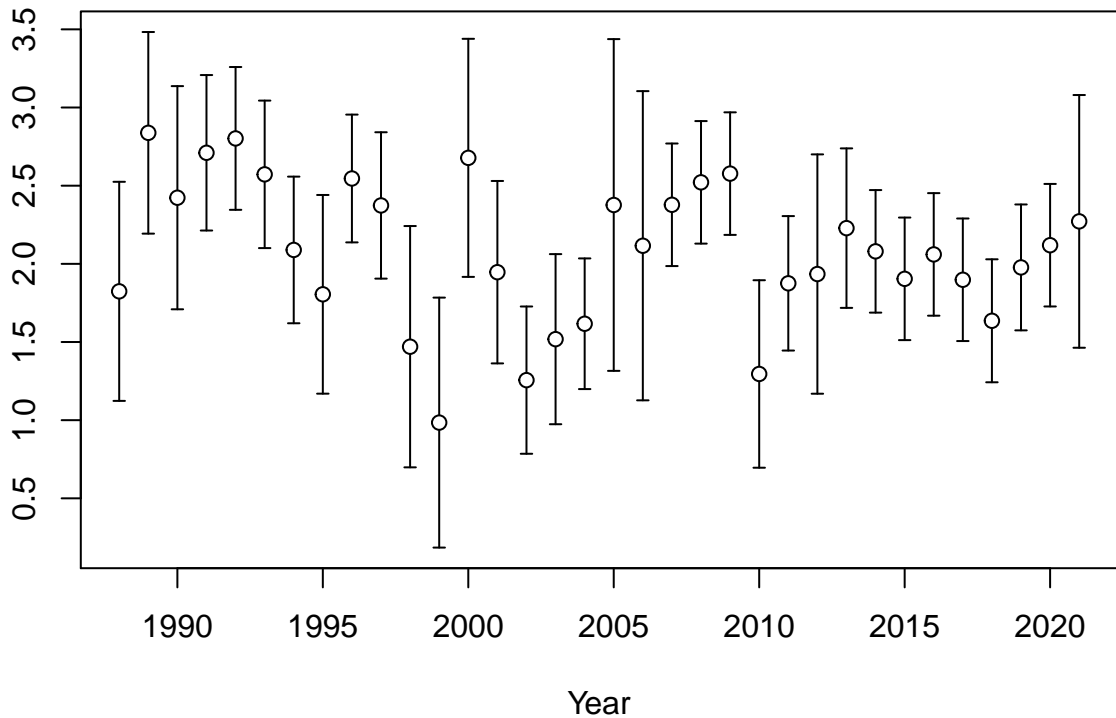


Index

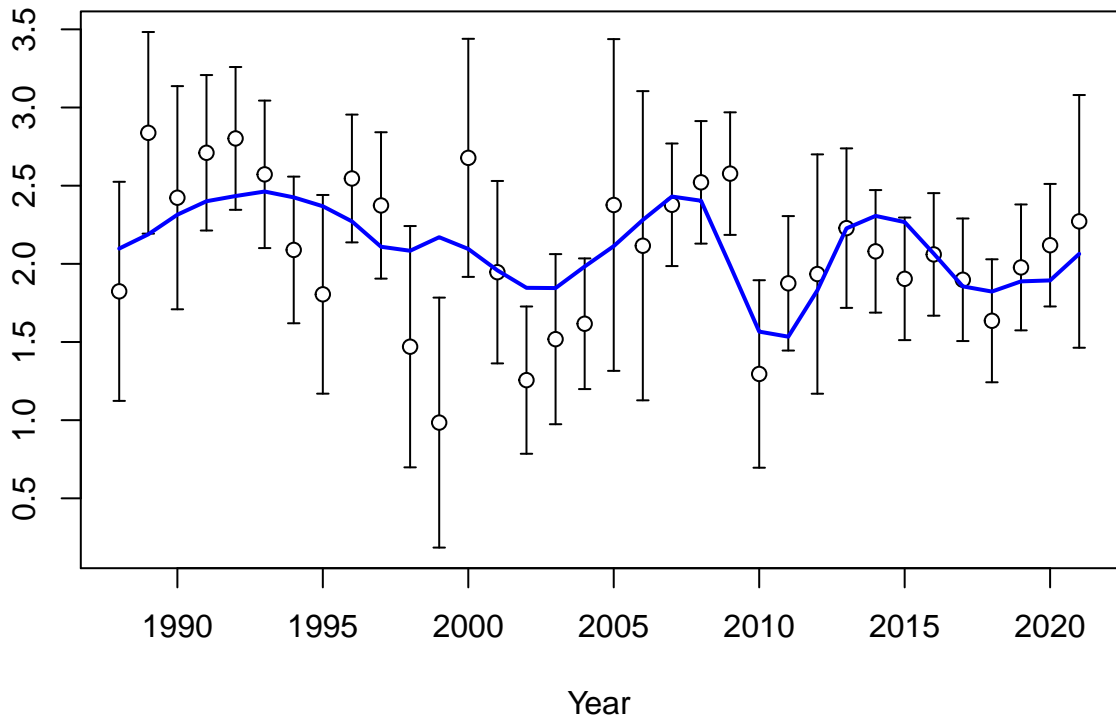


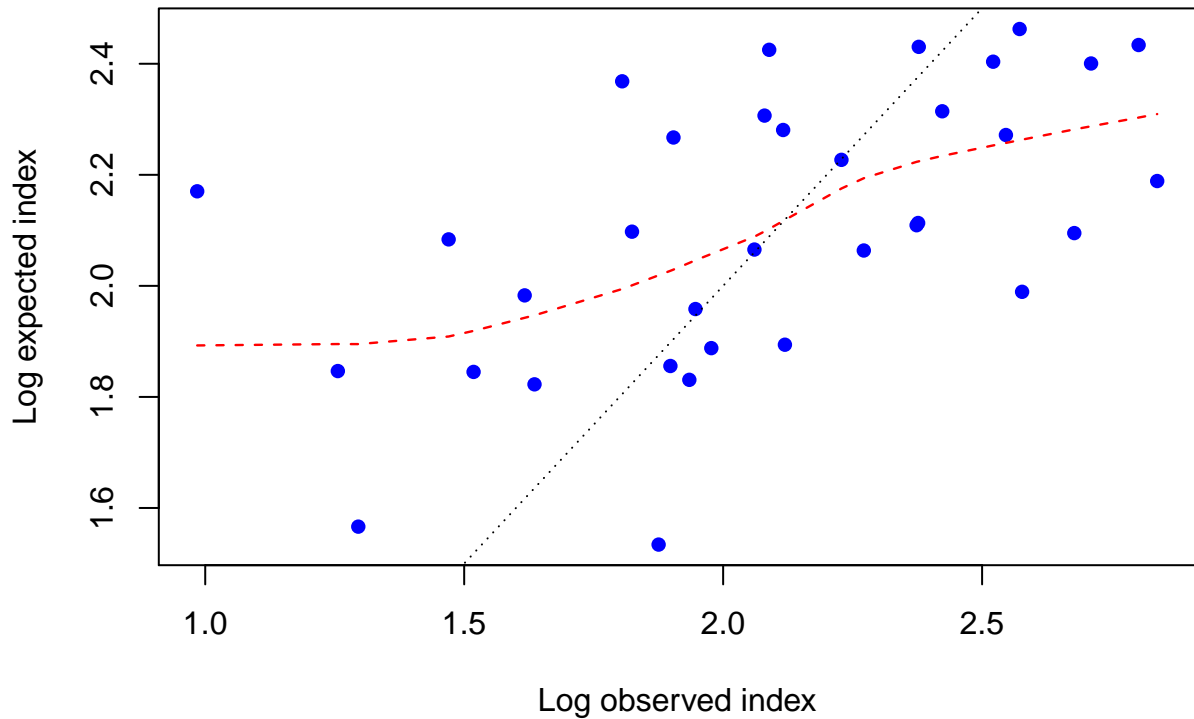


Log index

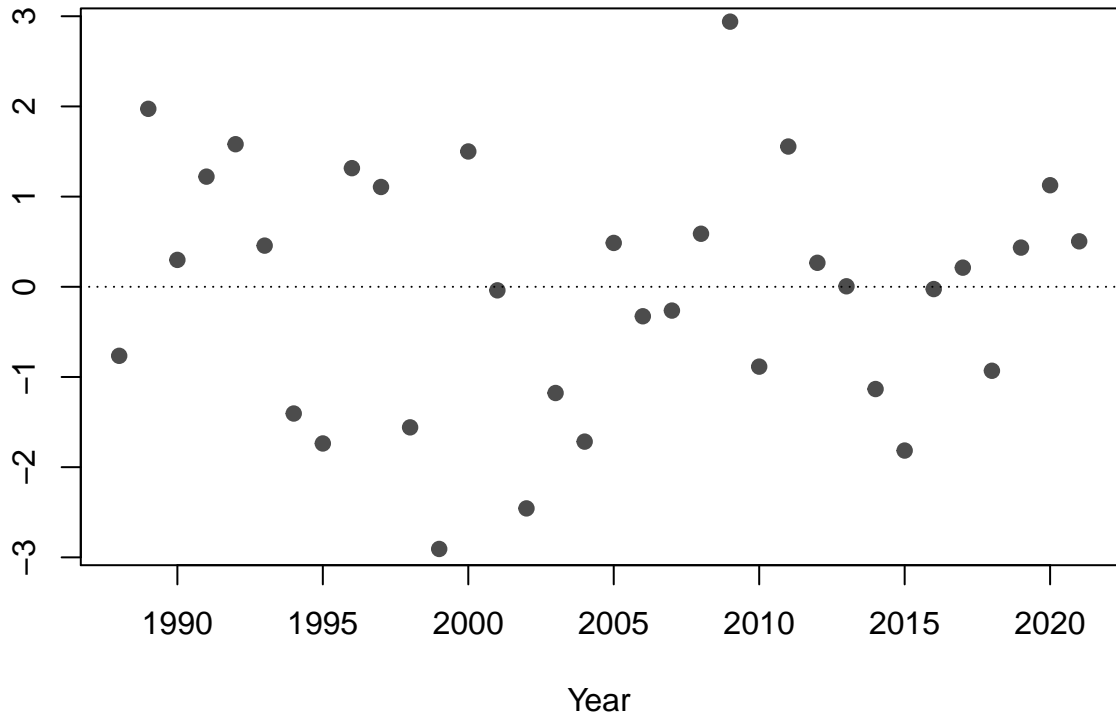


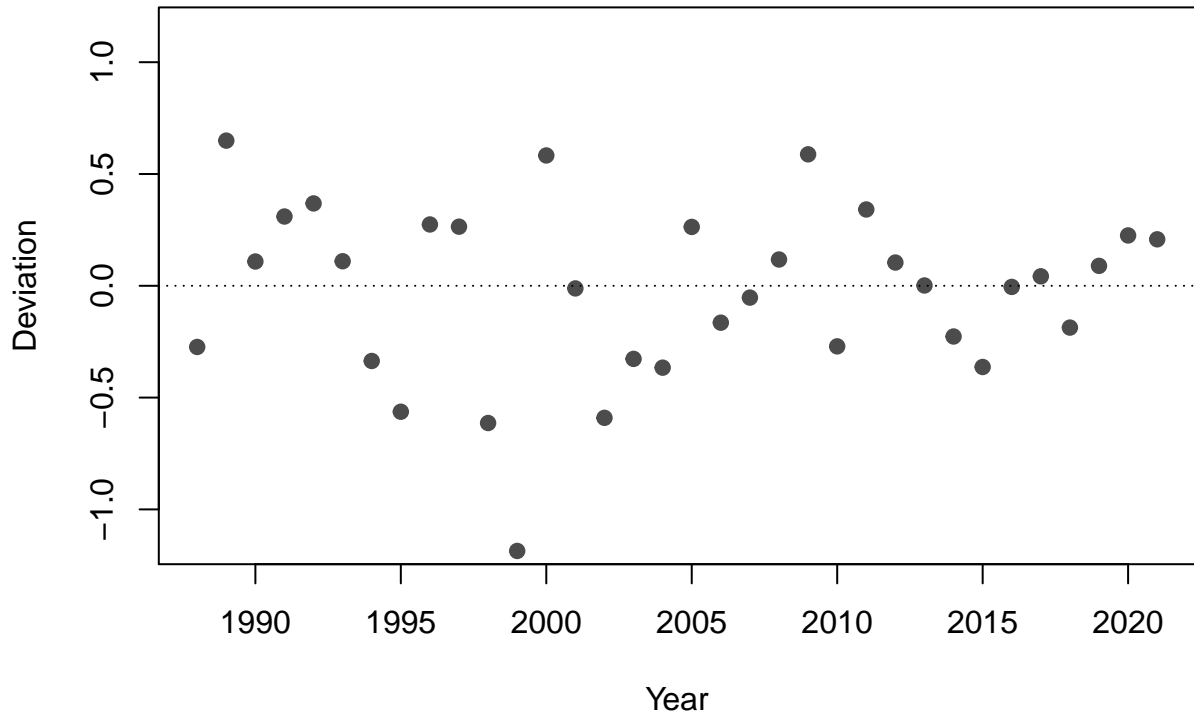
Log index

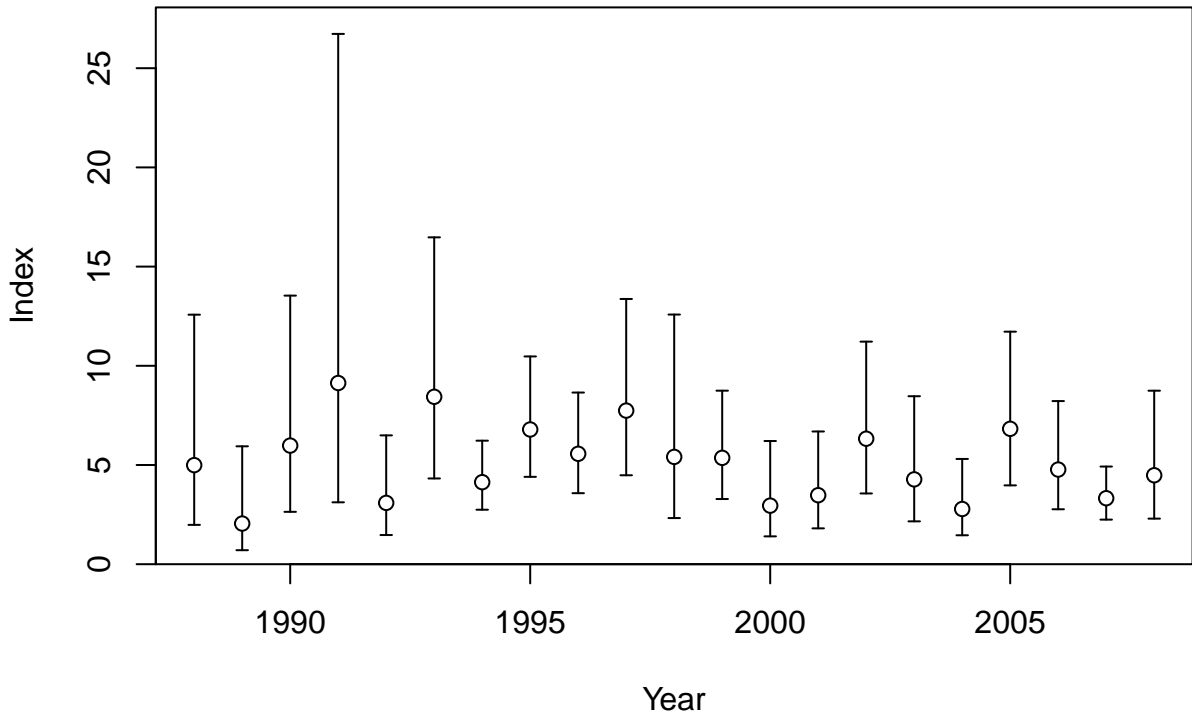


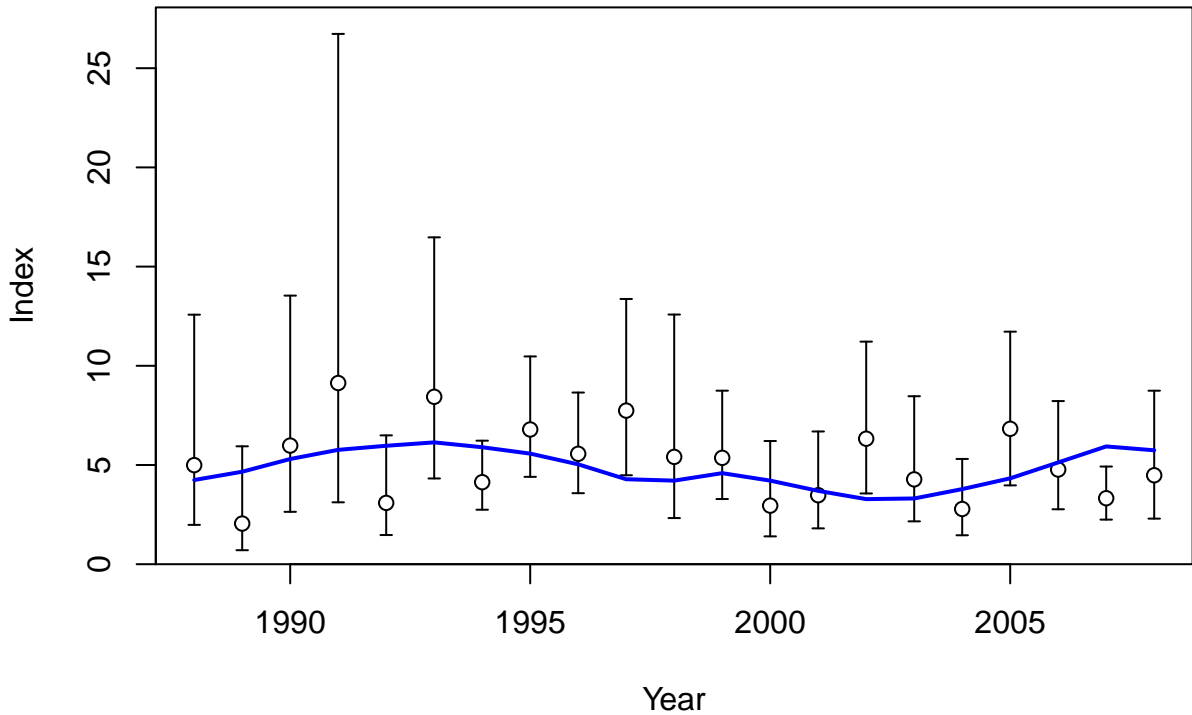


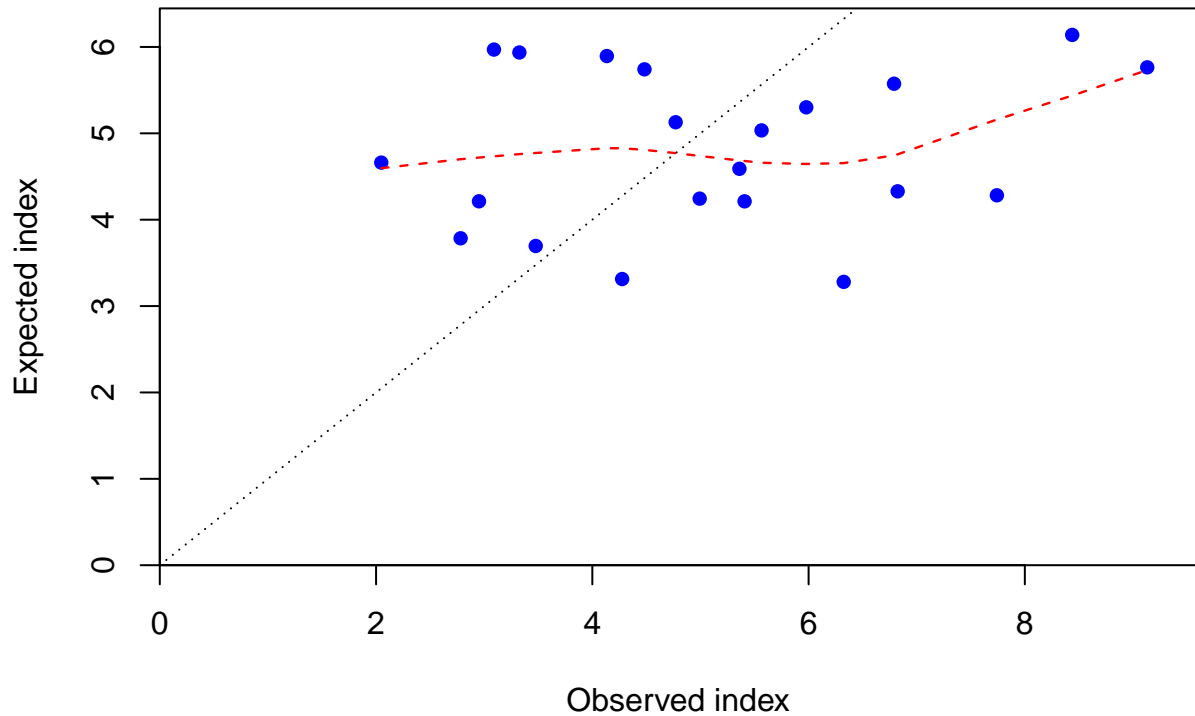
Residual

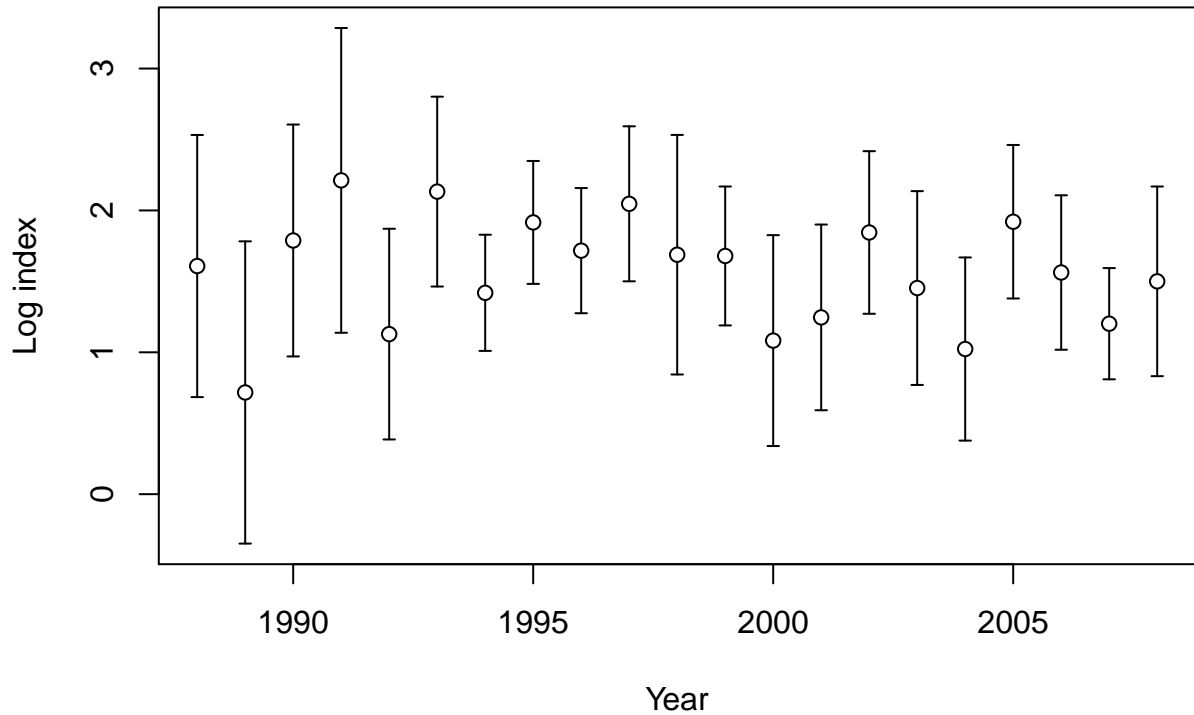


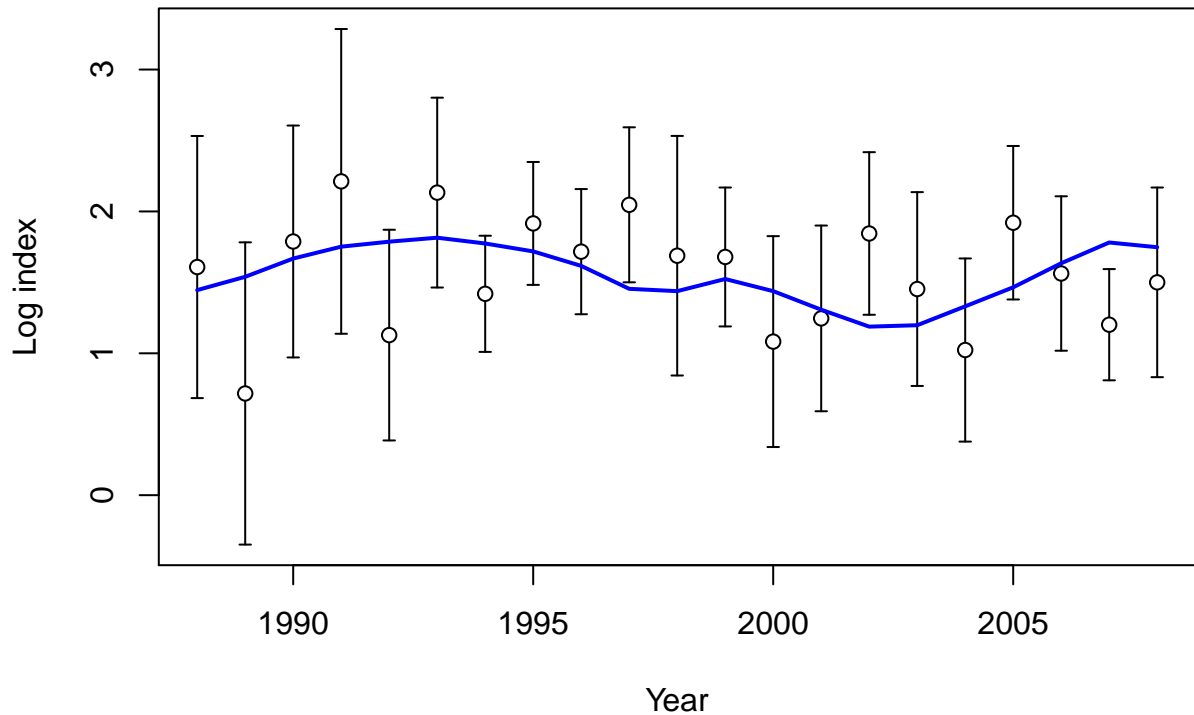


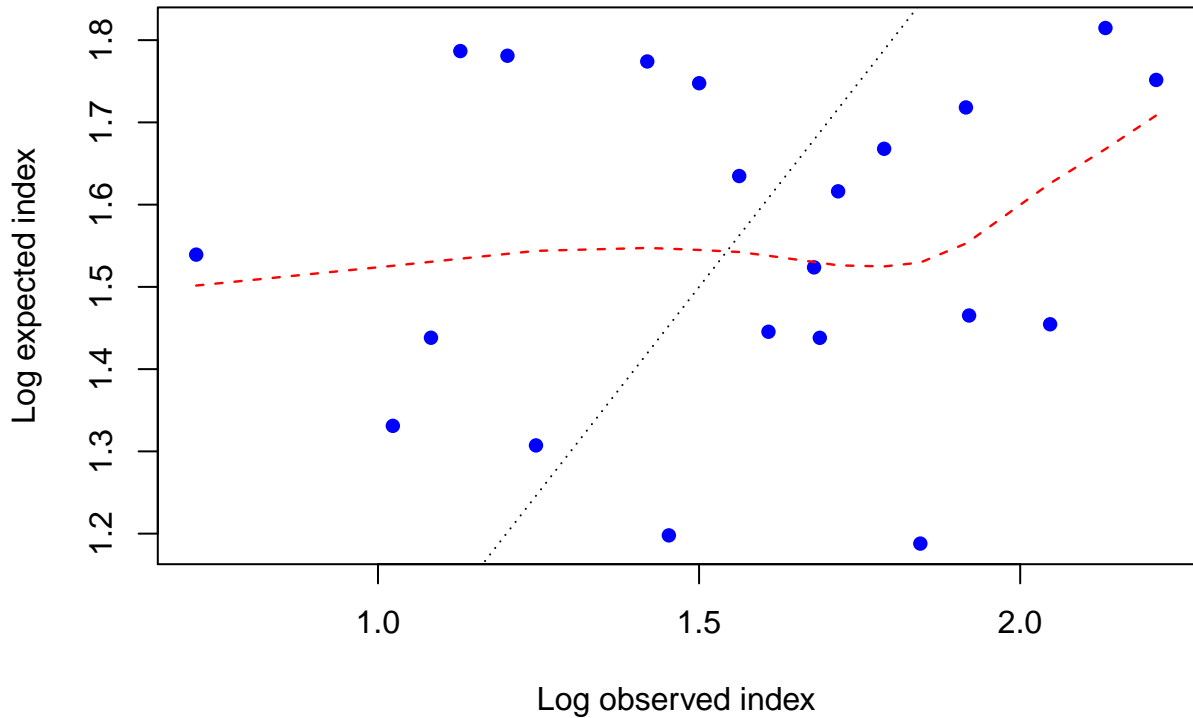




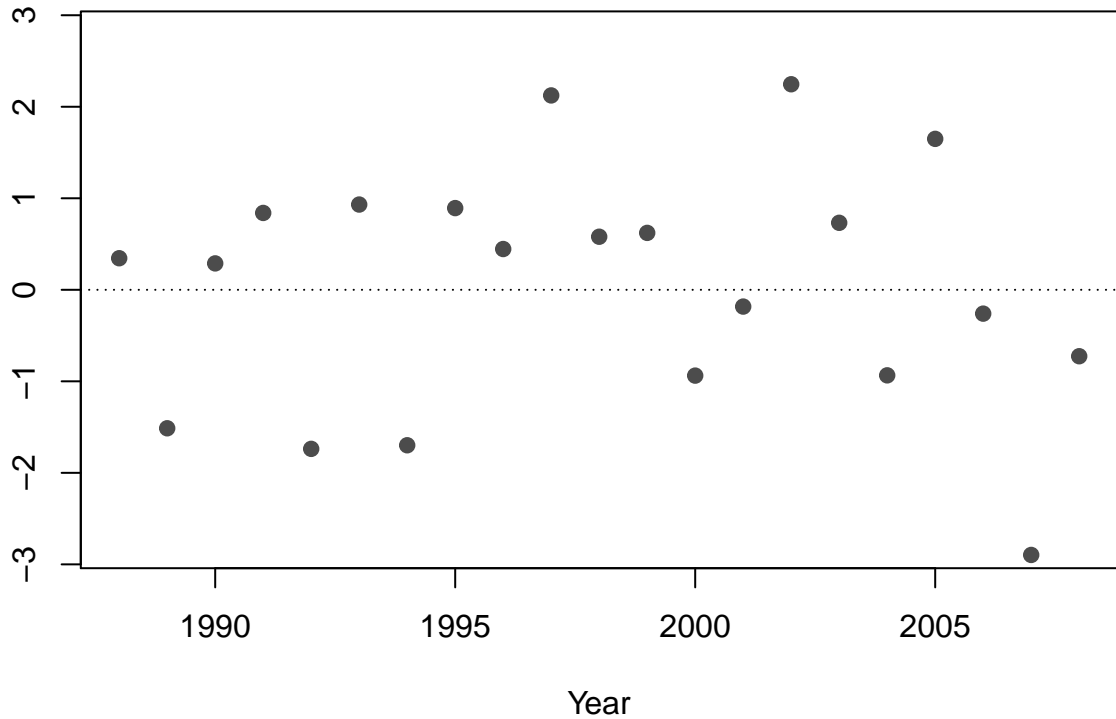


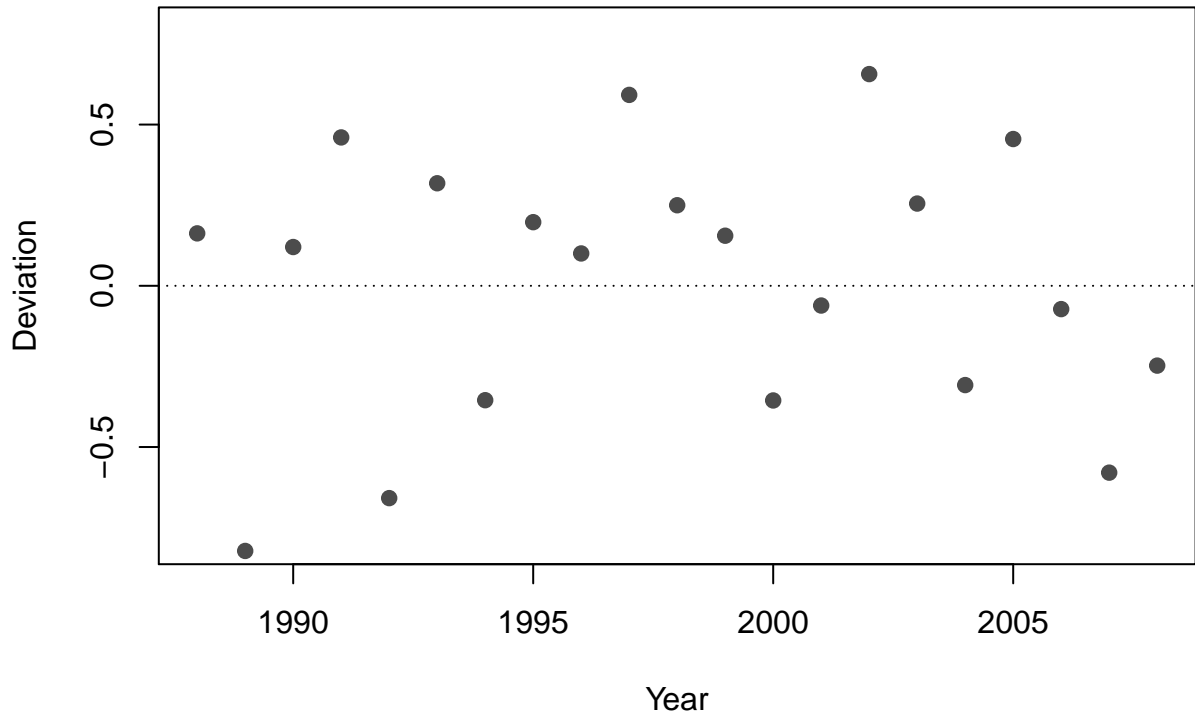




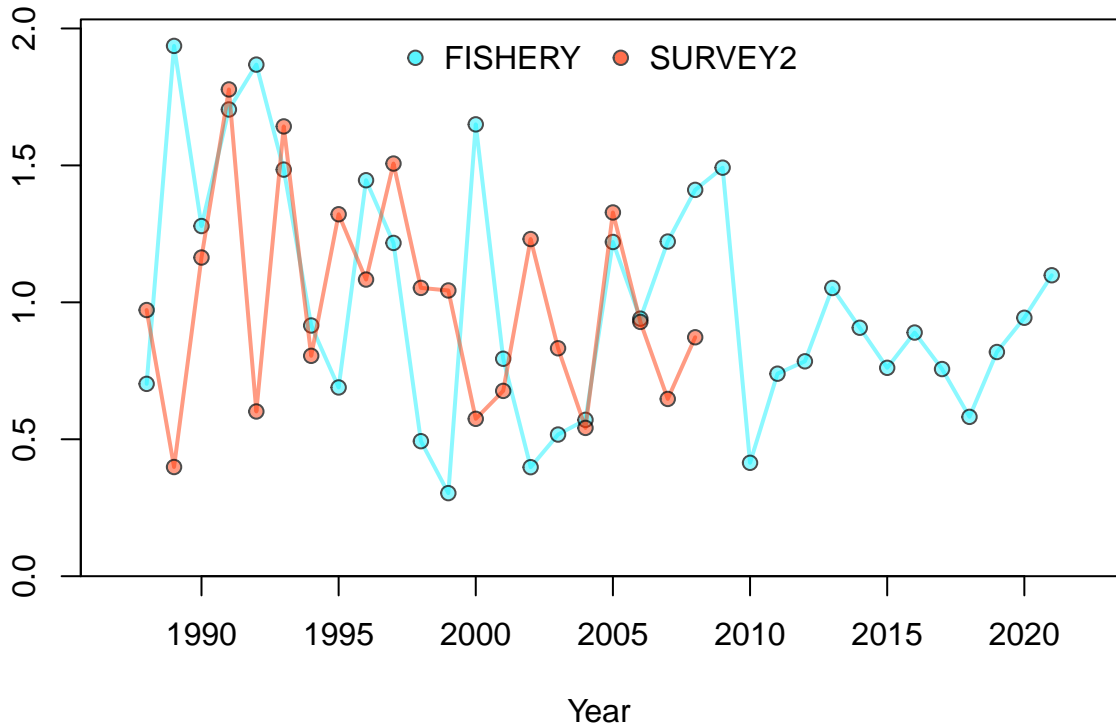


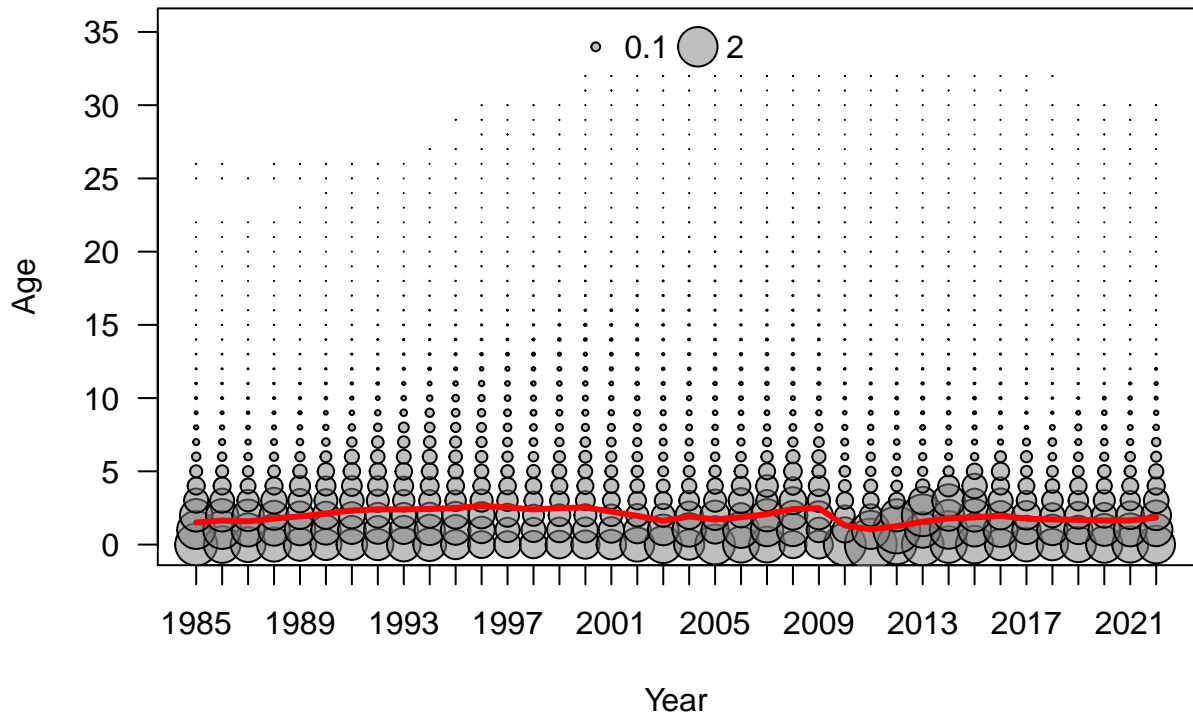
Residual



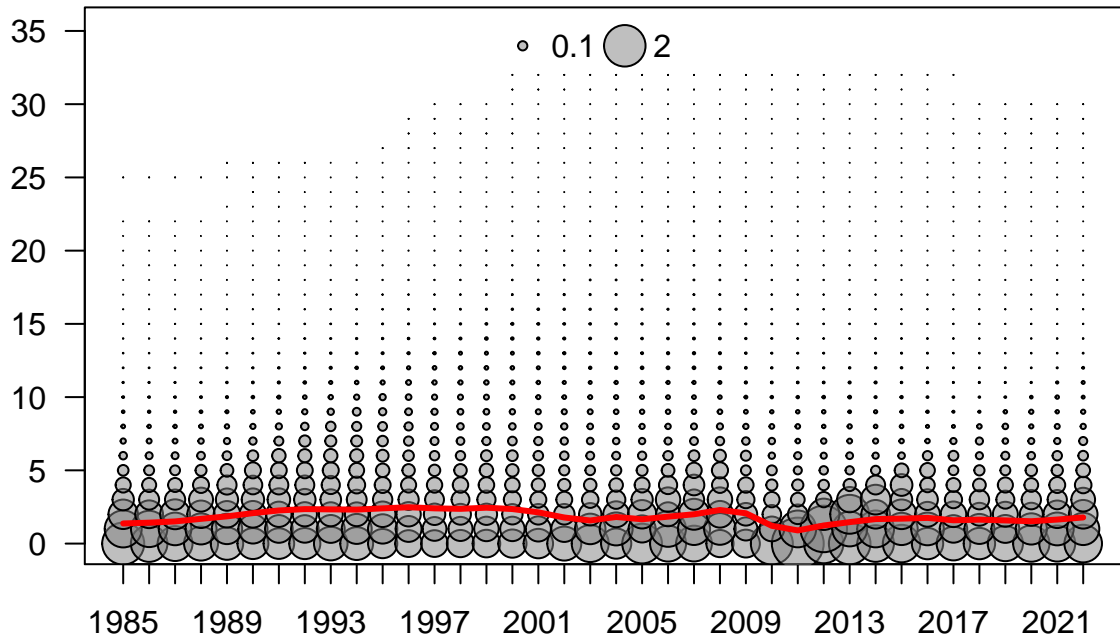


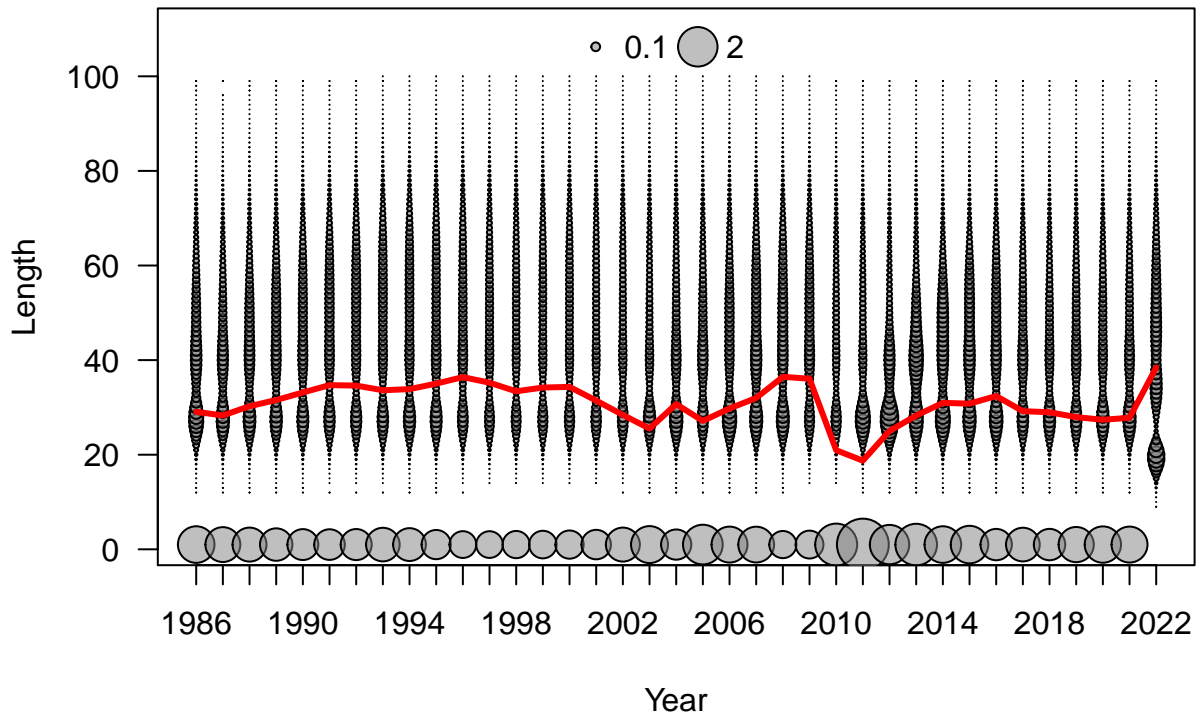
Standardized index

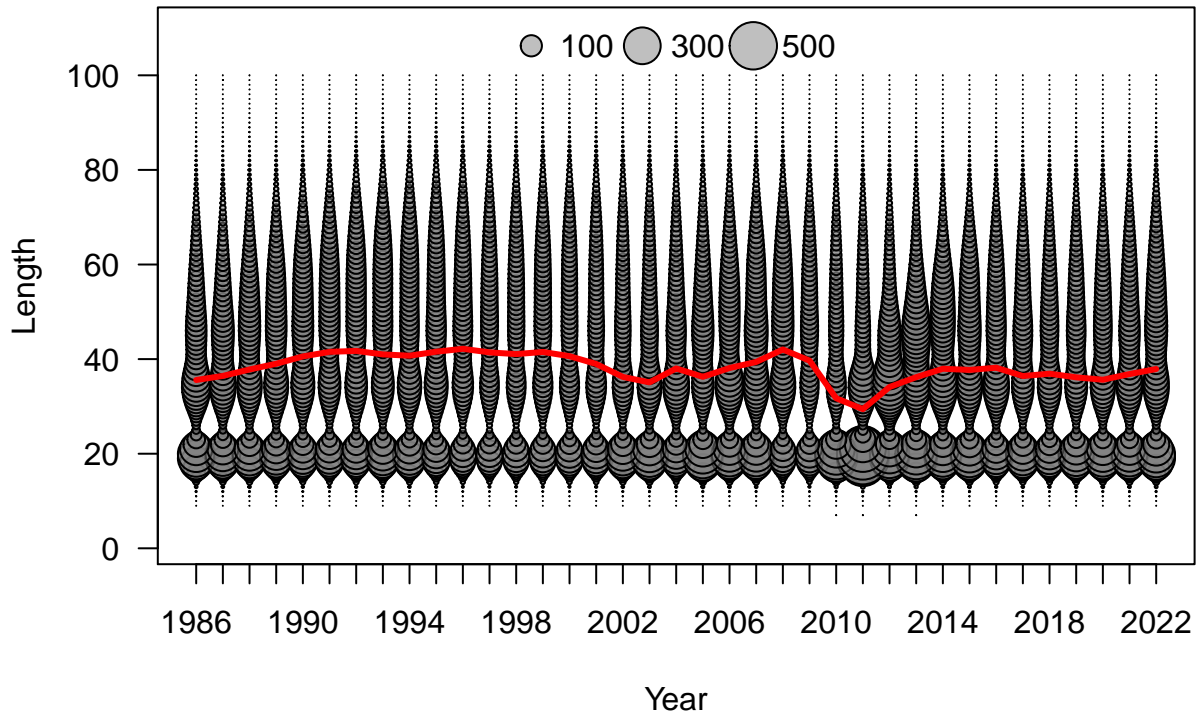


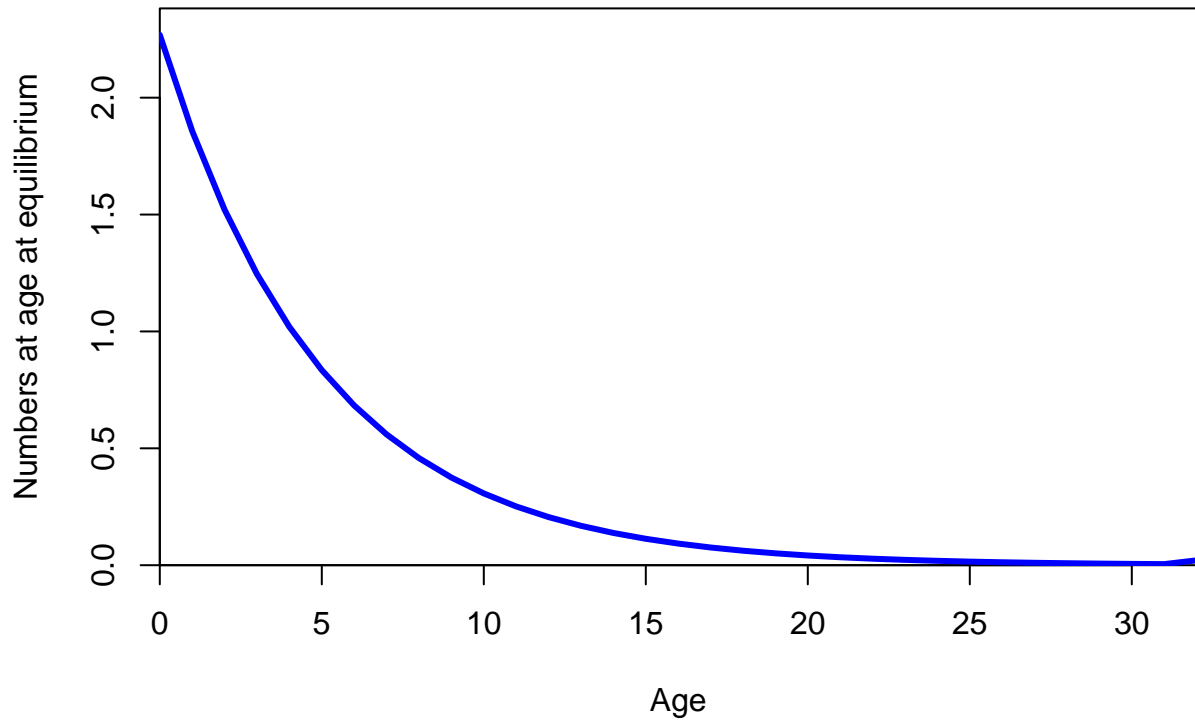


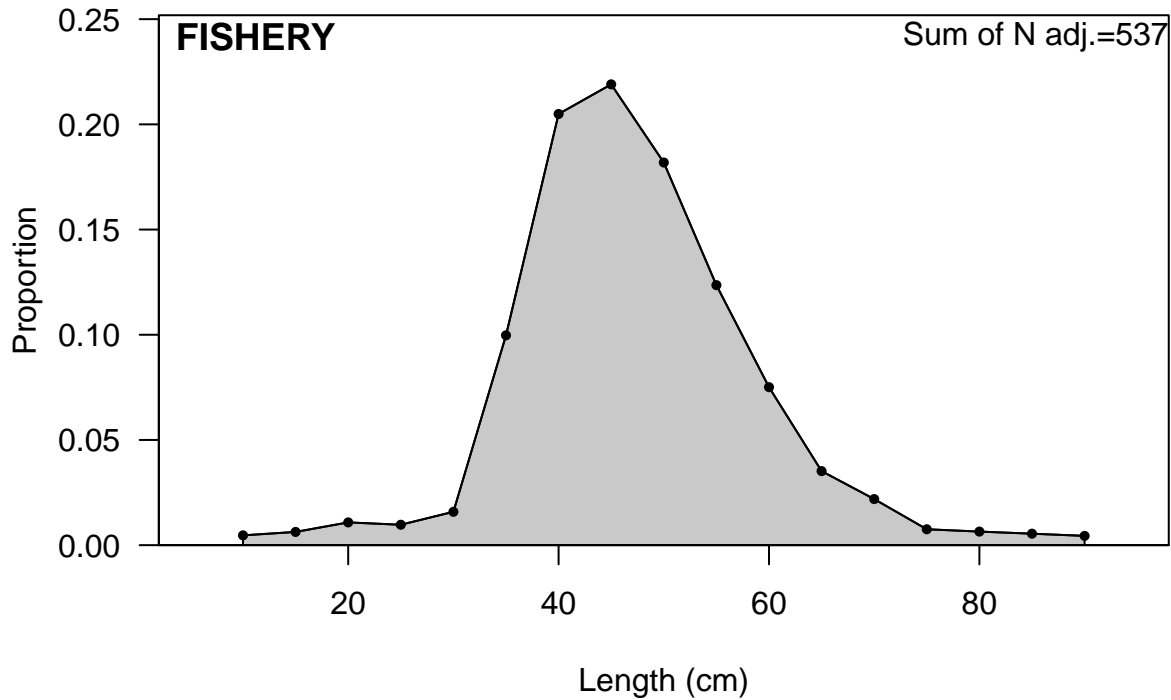
Age





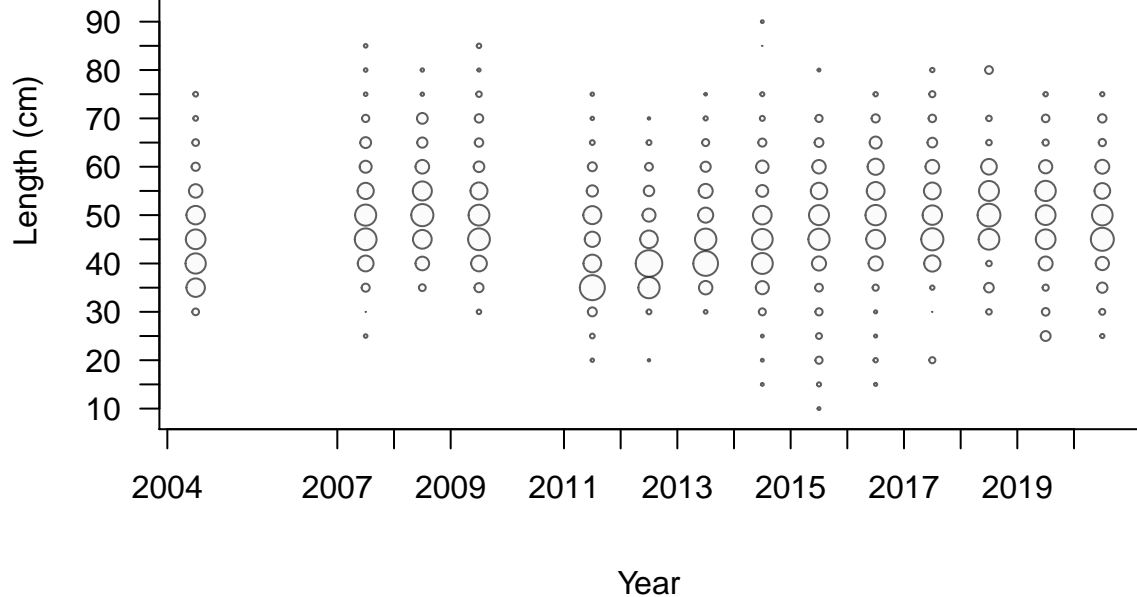




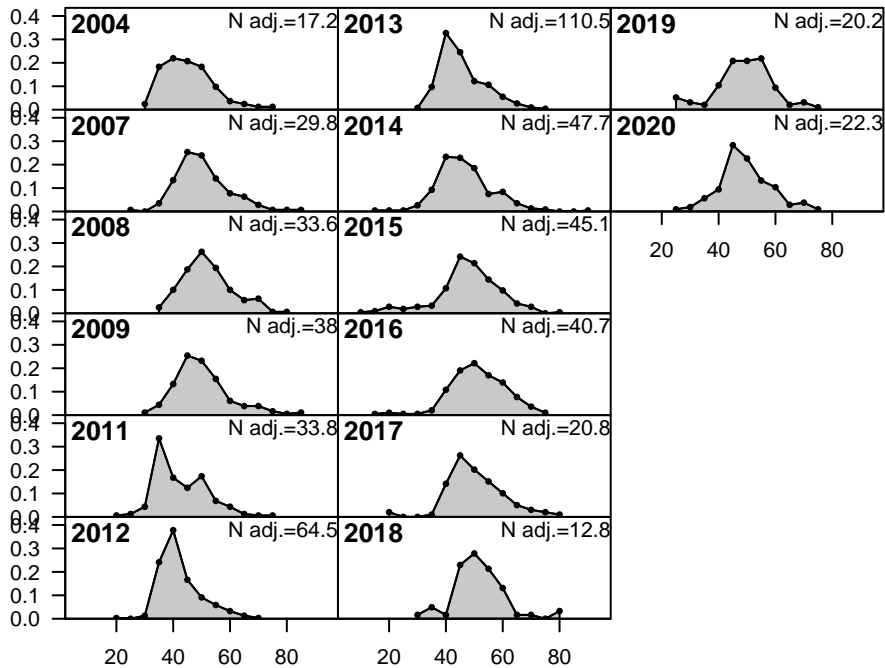


FISHERY

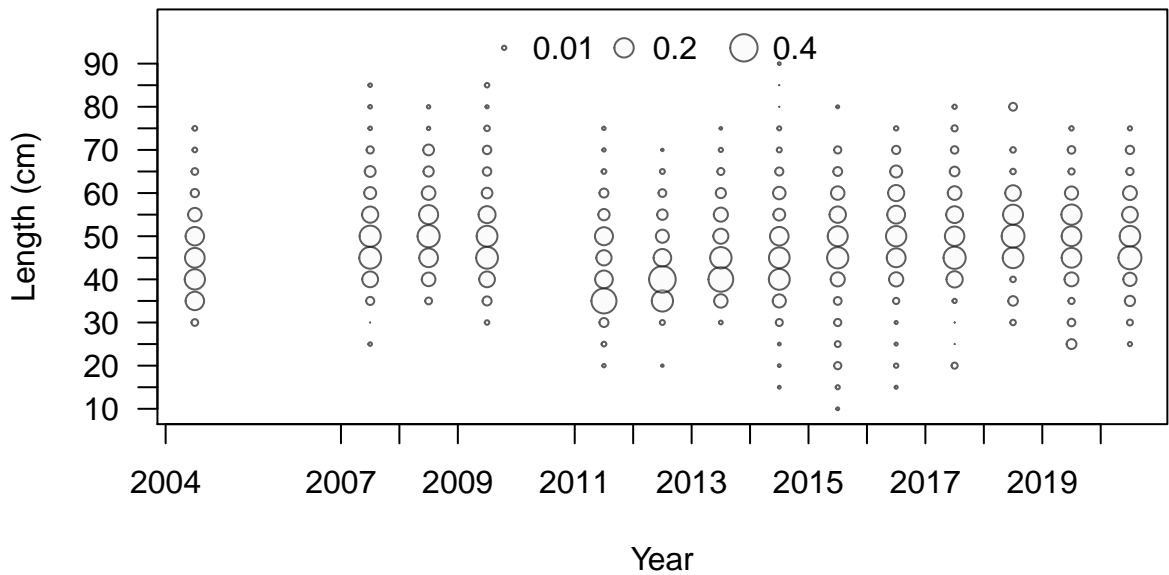
• 0.01 ○ 0.2 ○ 0.4



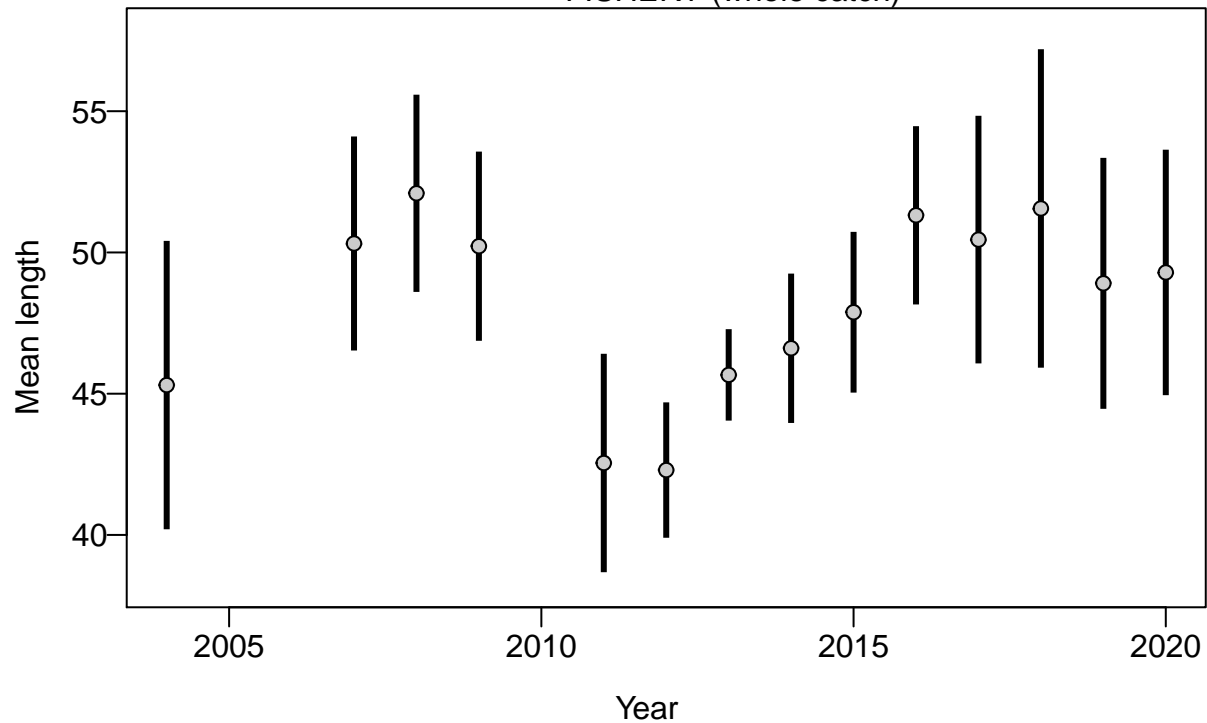
Proportion

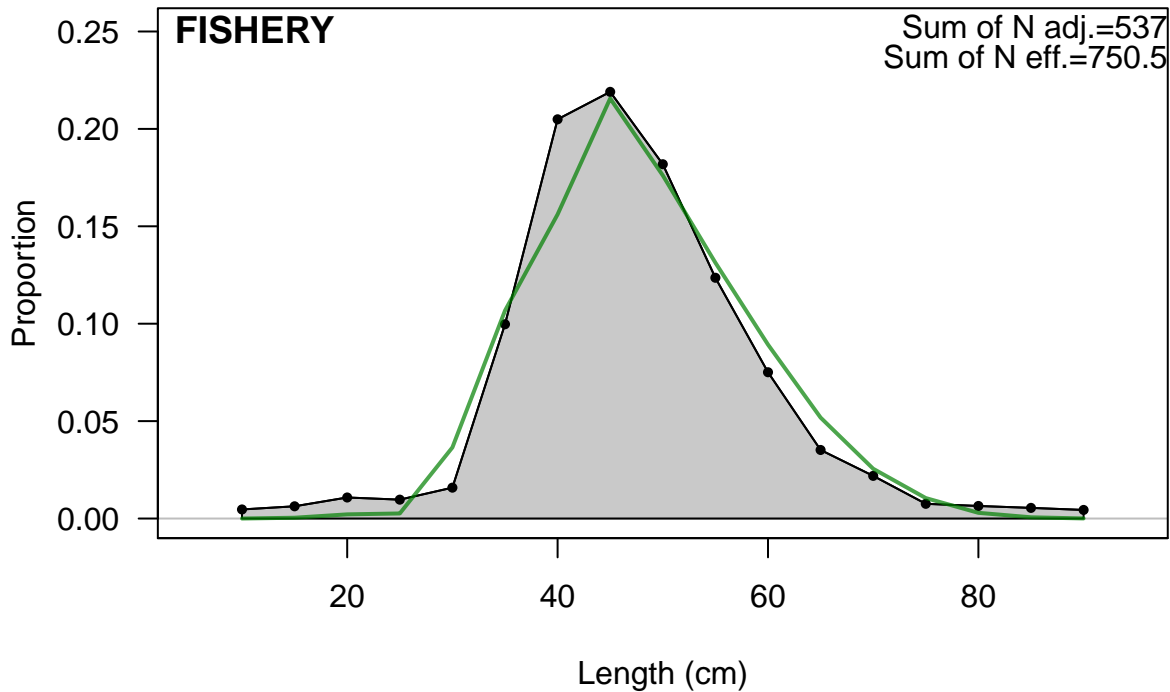


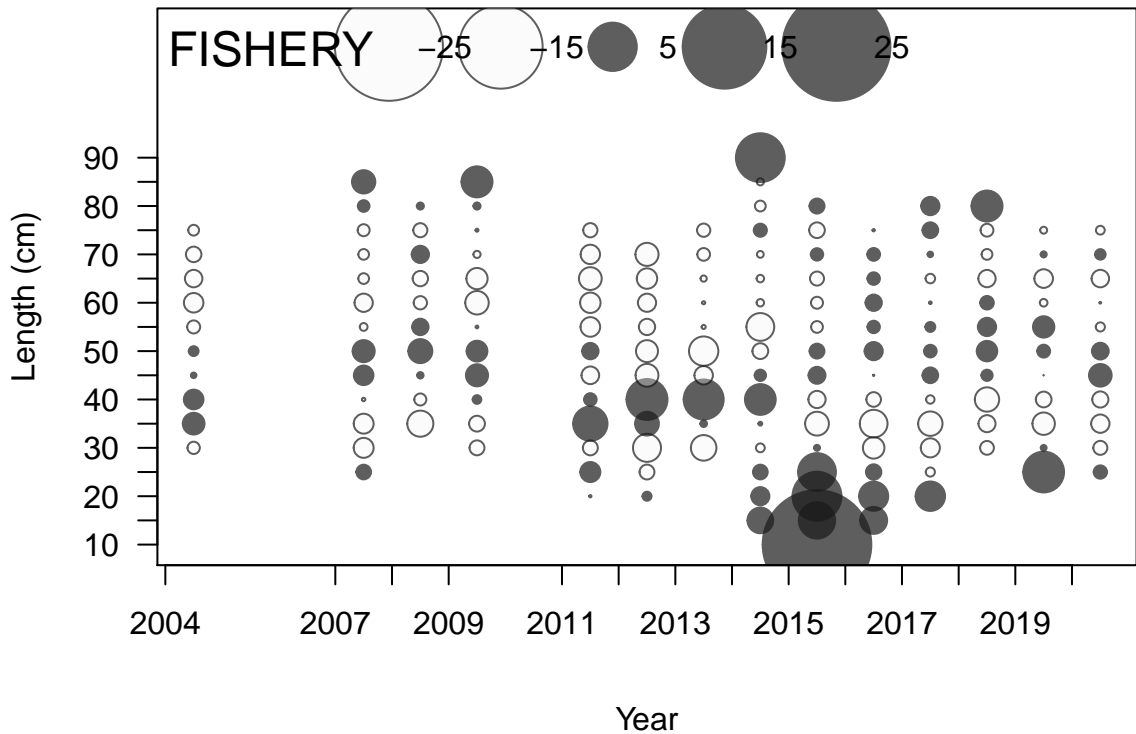
Length (cm)



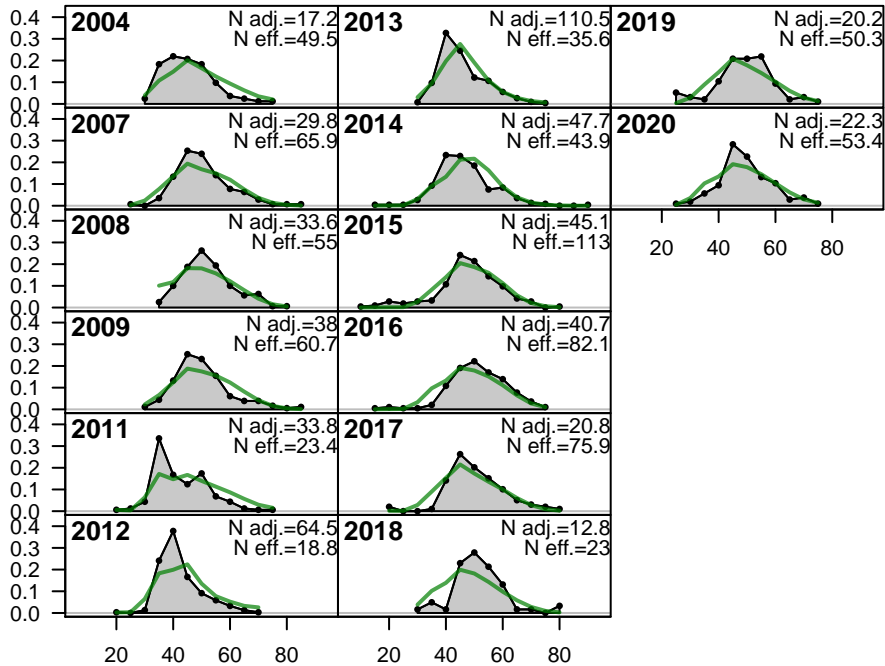
FISHERY (whole catch)





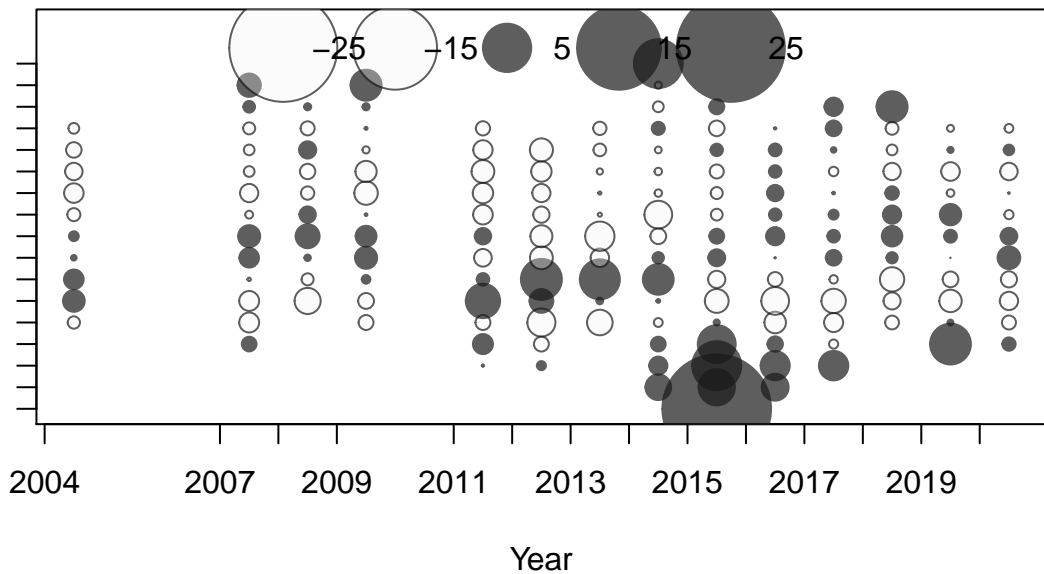


Proportion

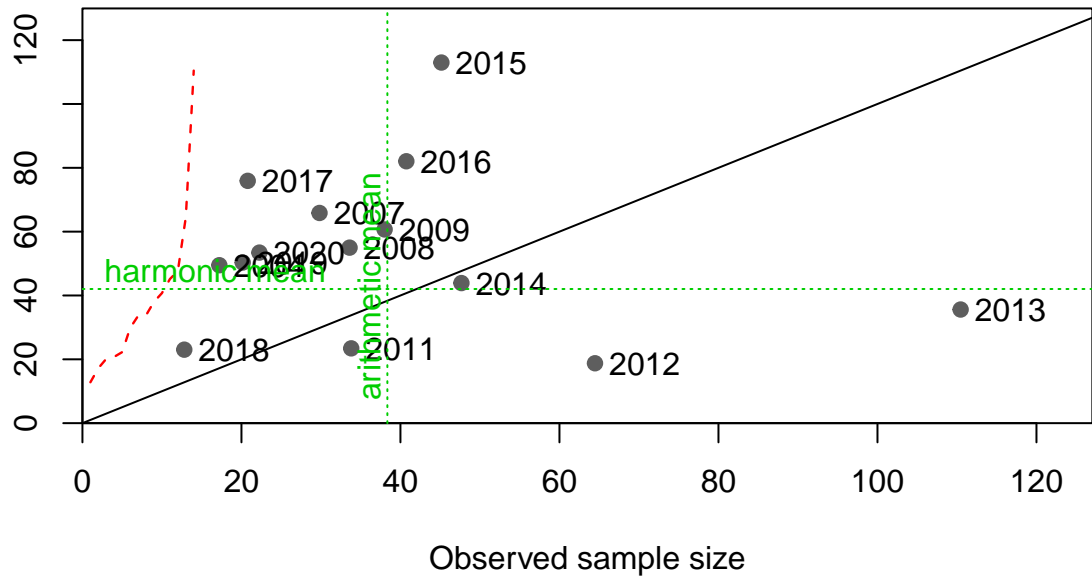


Length (cm)

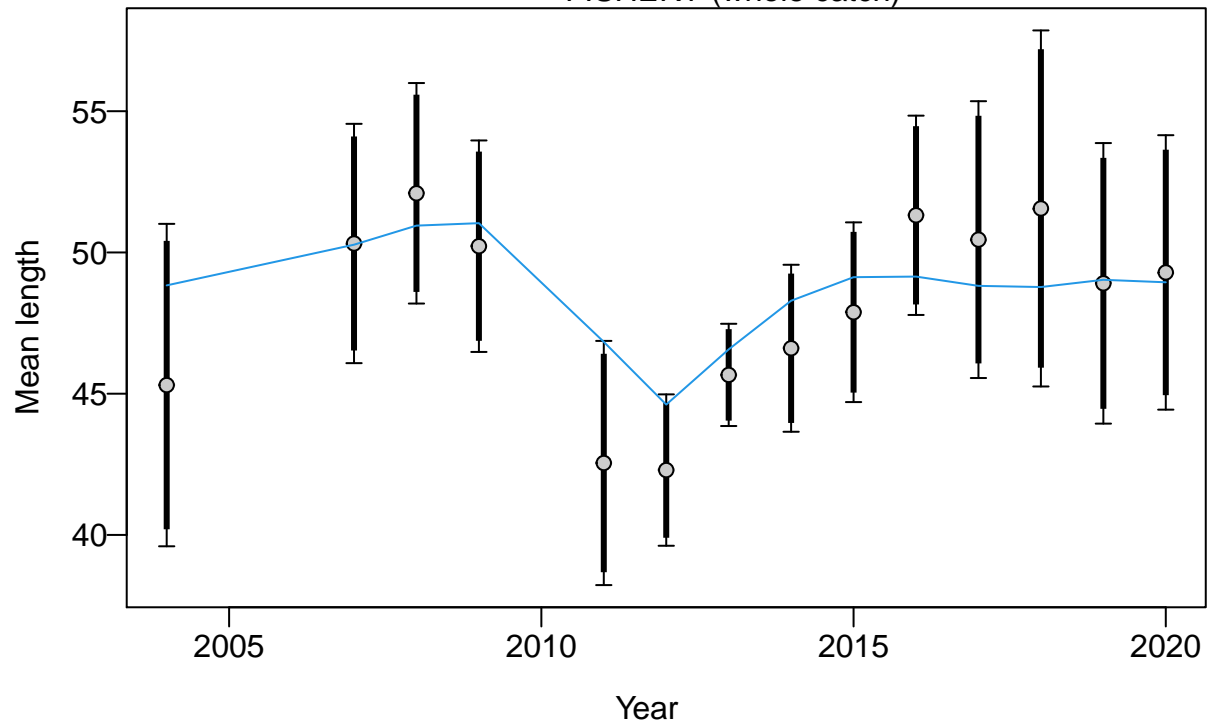
Length (cm)

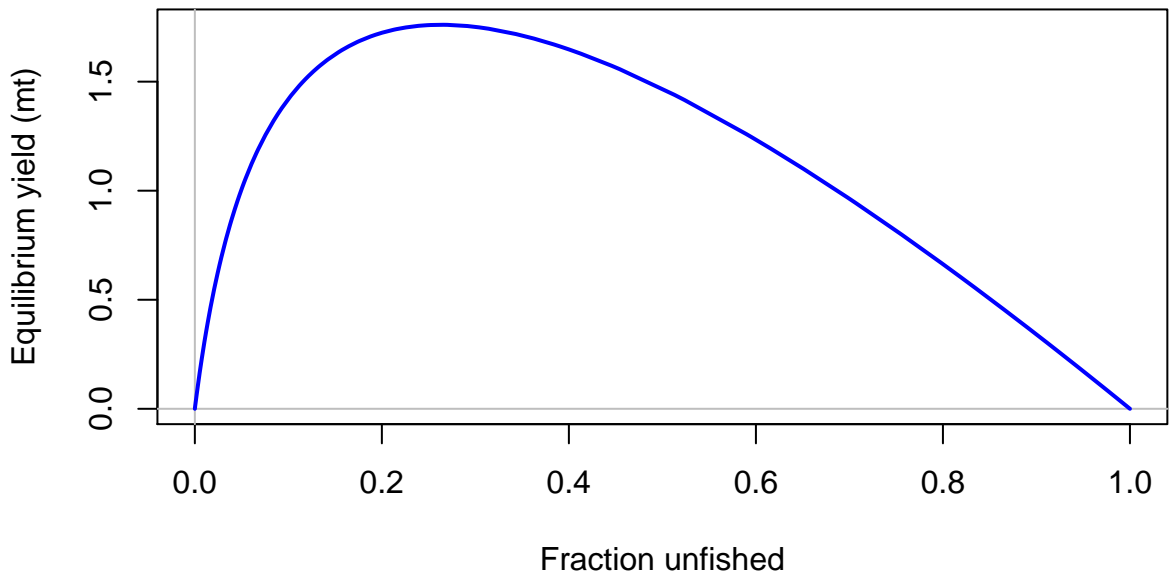


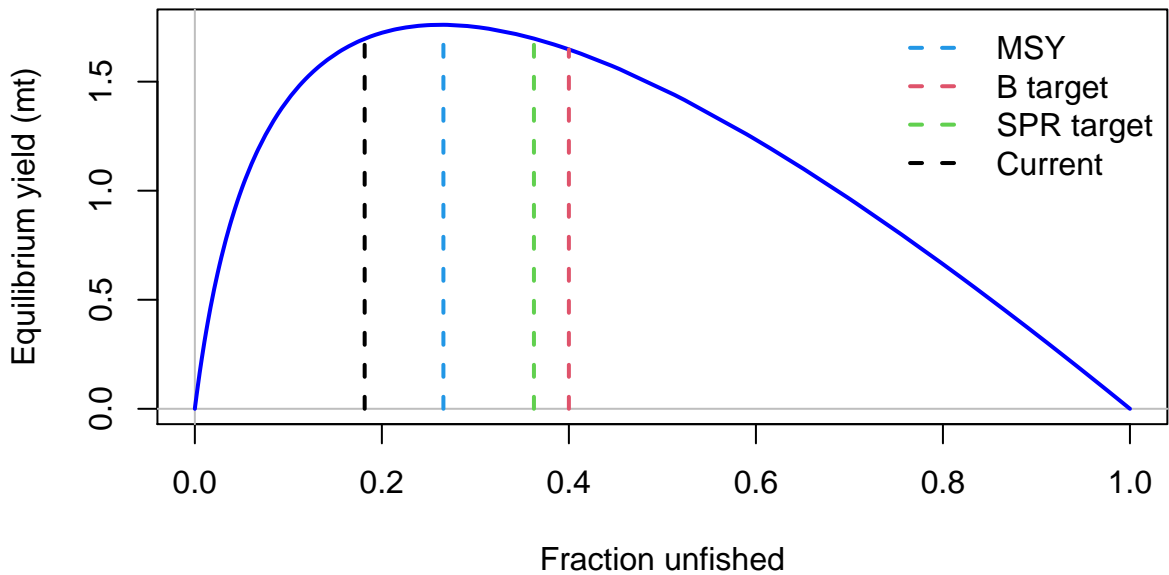
Effective sample size

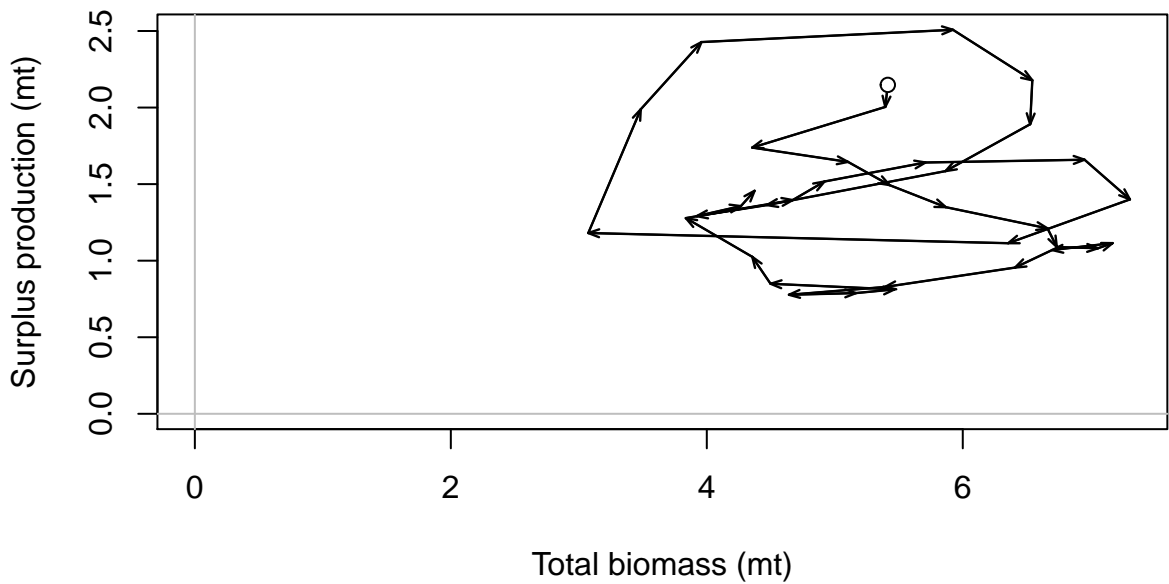


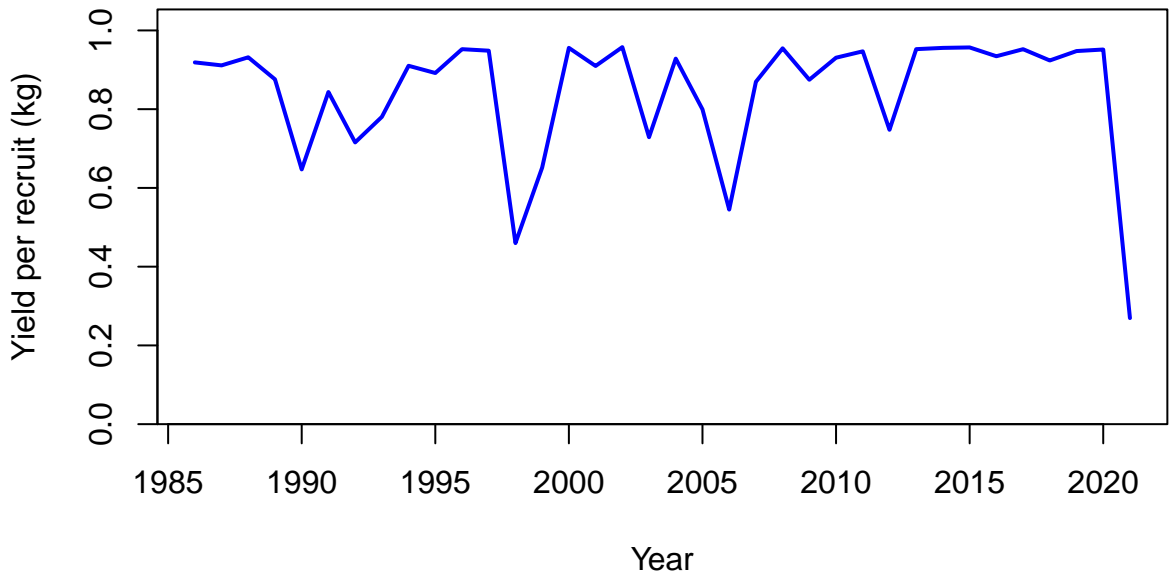
FISHERY (whole catch)

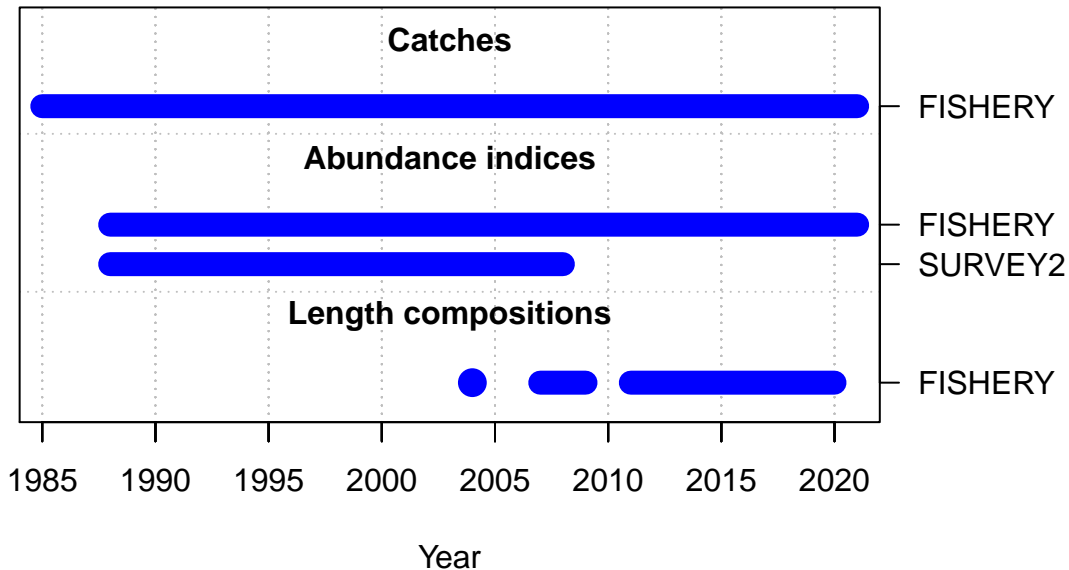


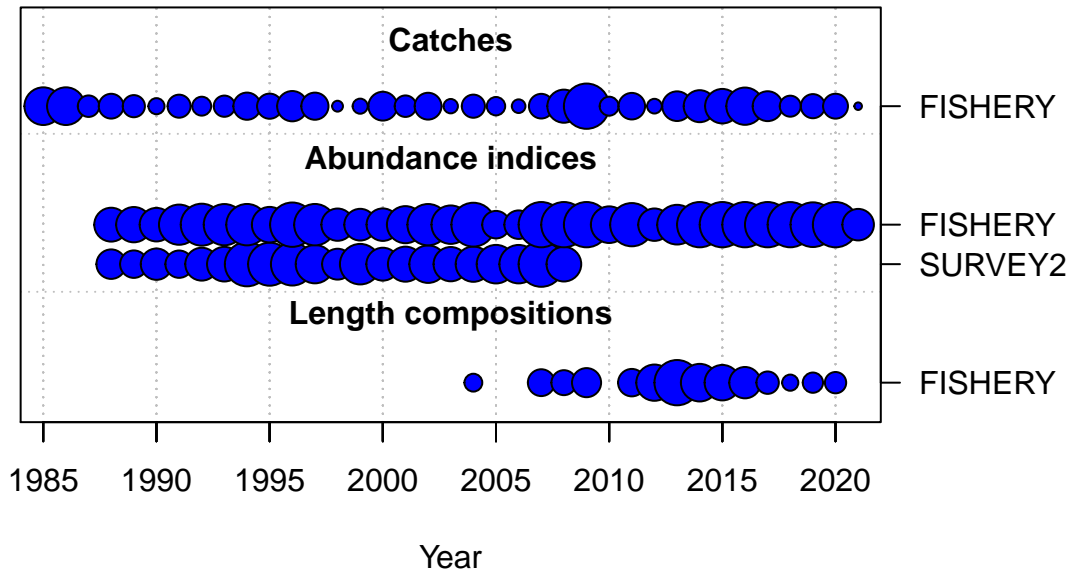






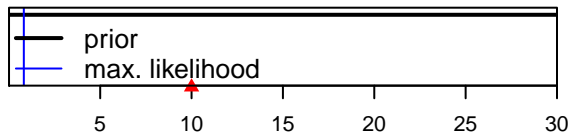




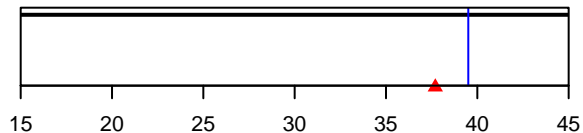


Density

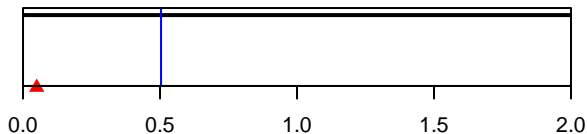
SR_LN(R0)



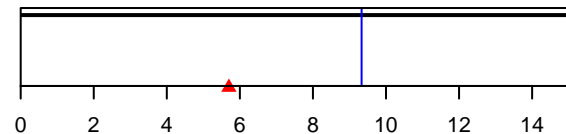
Size_inflection_FISHERY(1)



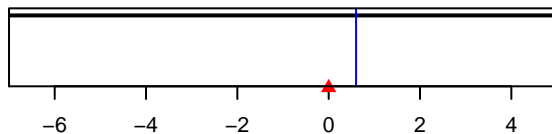
InitF_seas_1_flt_1FISHERY



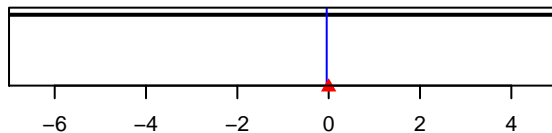
Size_95%width_FISHERY(1)



LnQ_base_FISHERY(1)



LnQ_base_SURVEY2(2)



Parameter value