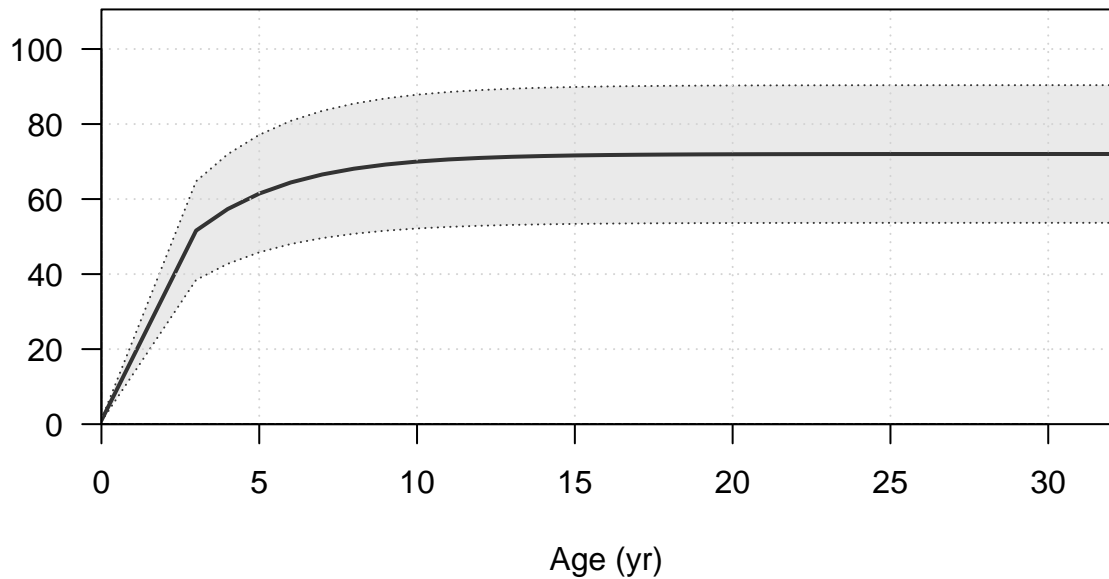
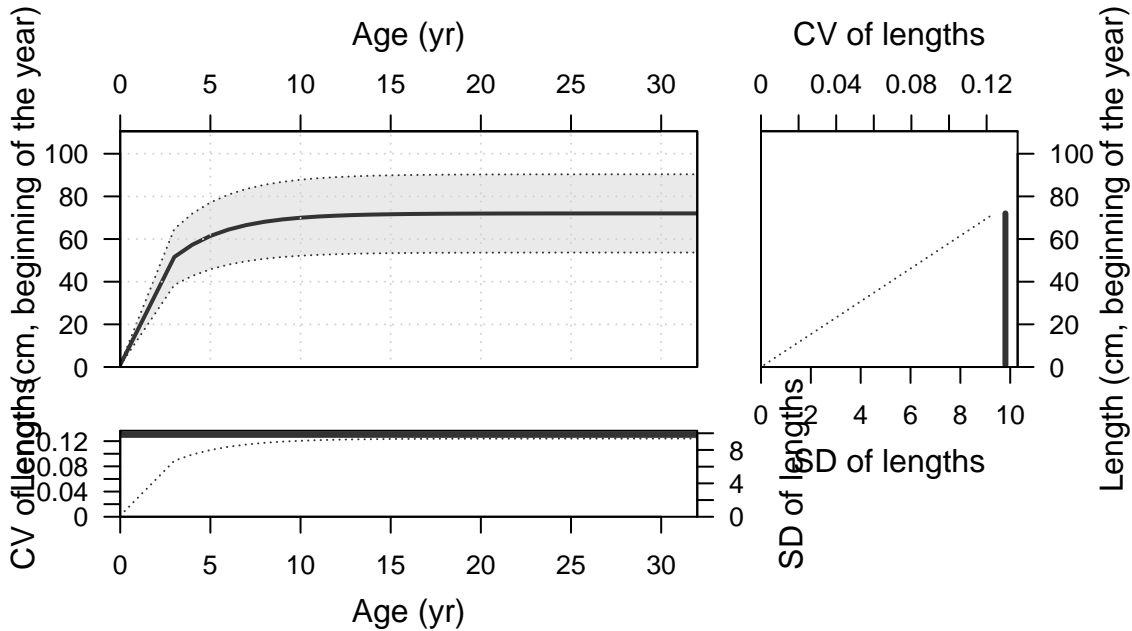
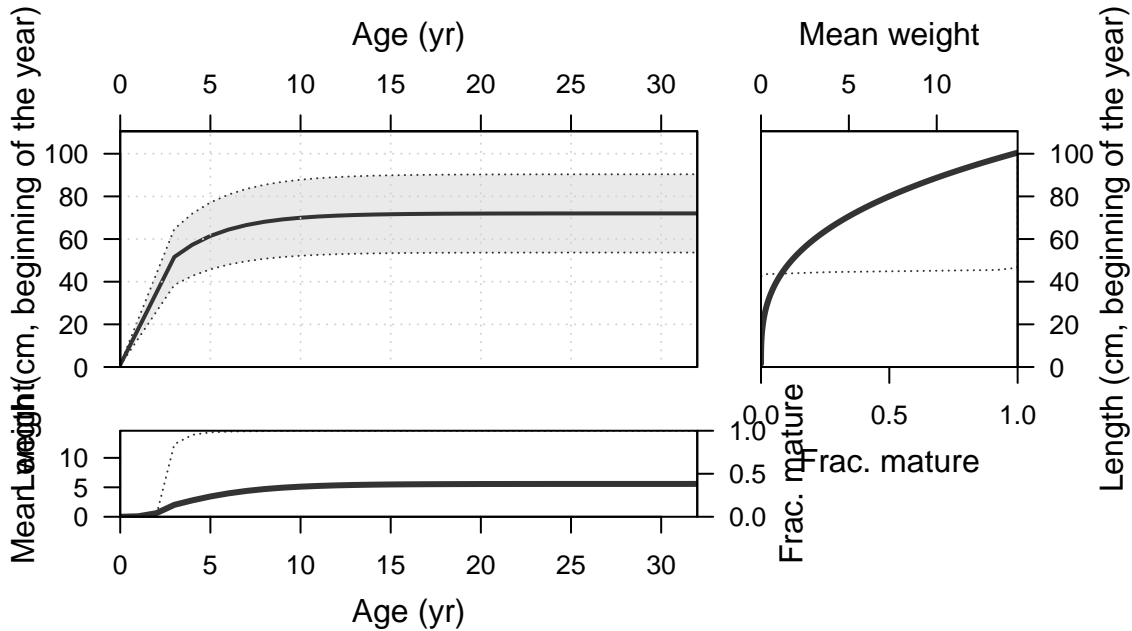


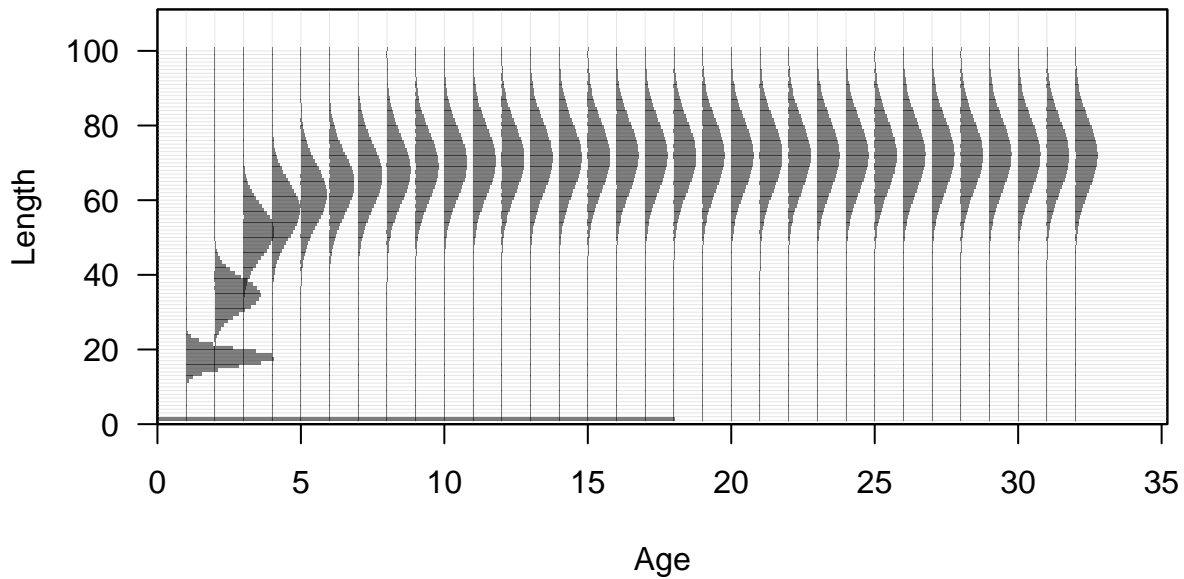
Plots created using the 'r4ss' package in R
Stock Synthesis version: 3.30.19.0
StartTime: Wed Jun 29 16:57:40 2022
Data_File: data.ss
Control_File: control.ss

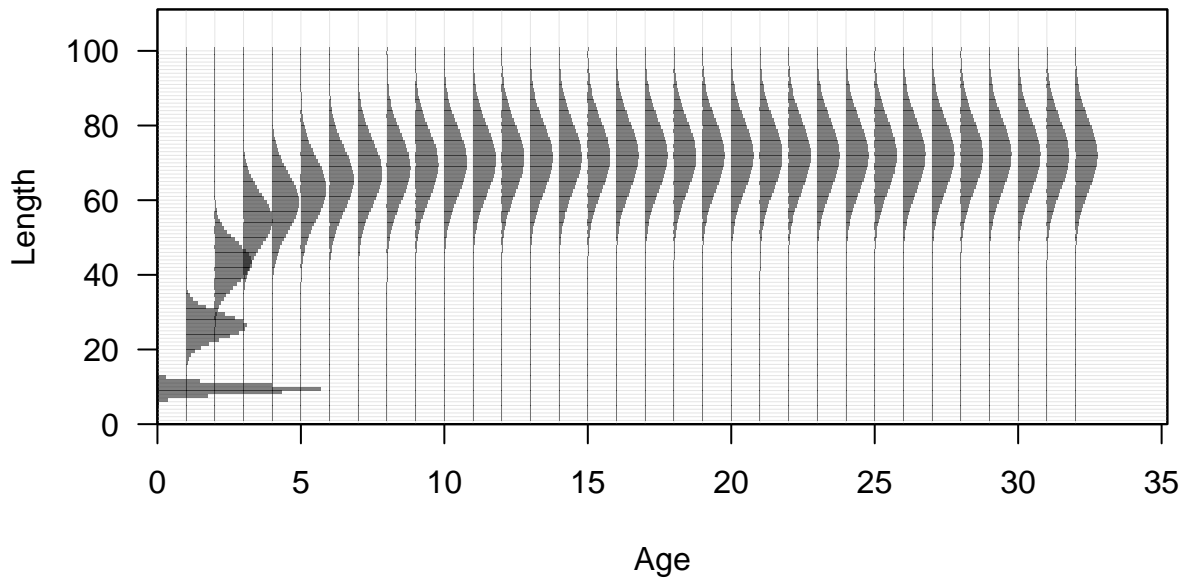
Length (cm, beginning of the year)













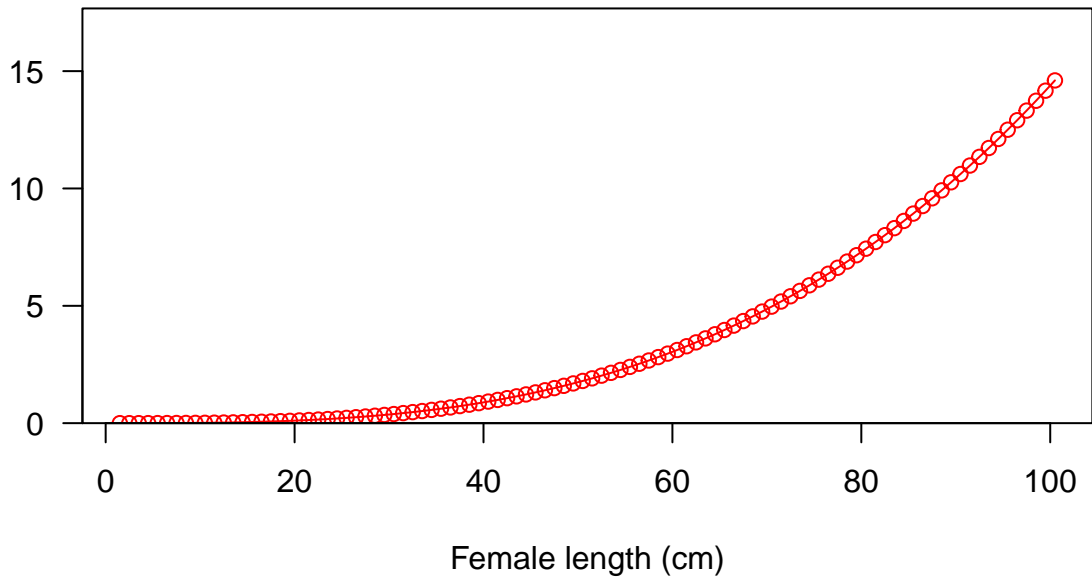




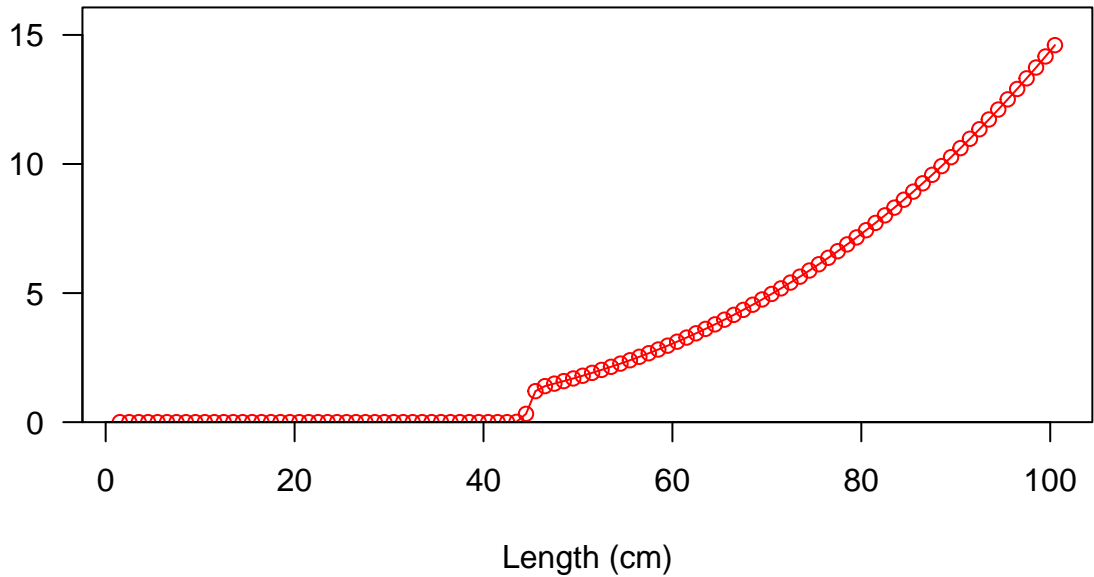
Fecundity



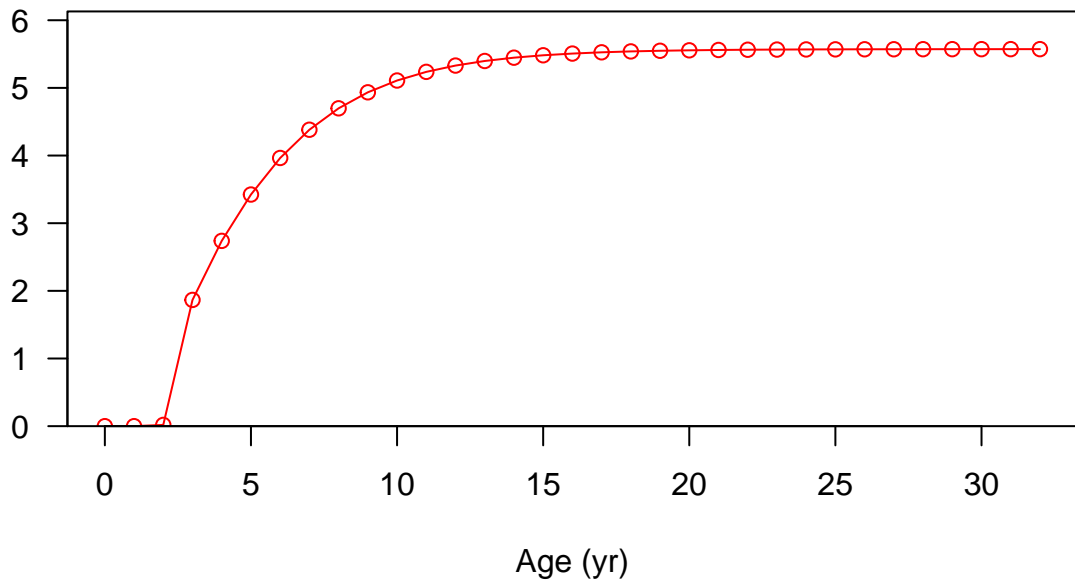
Fecundity



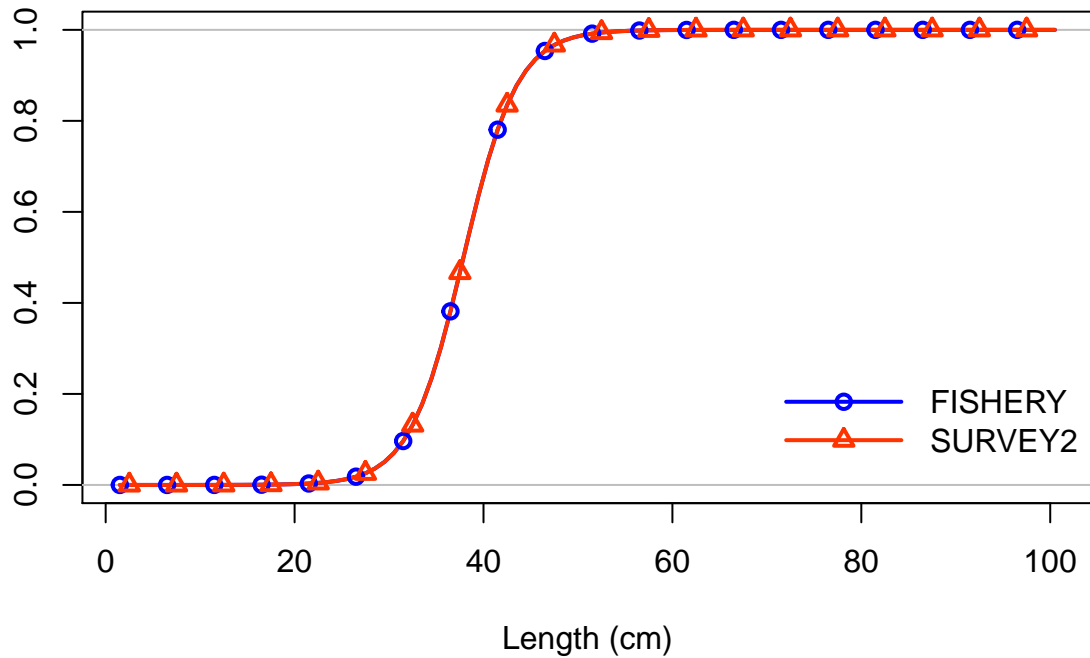
Spawning output



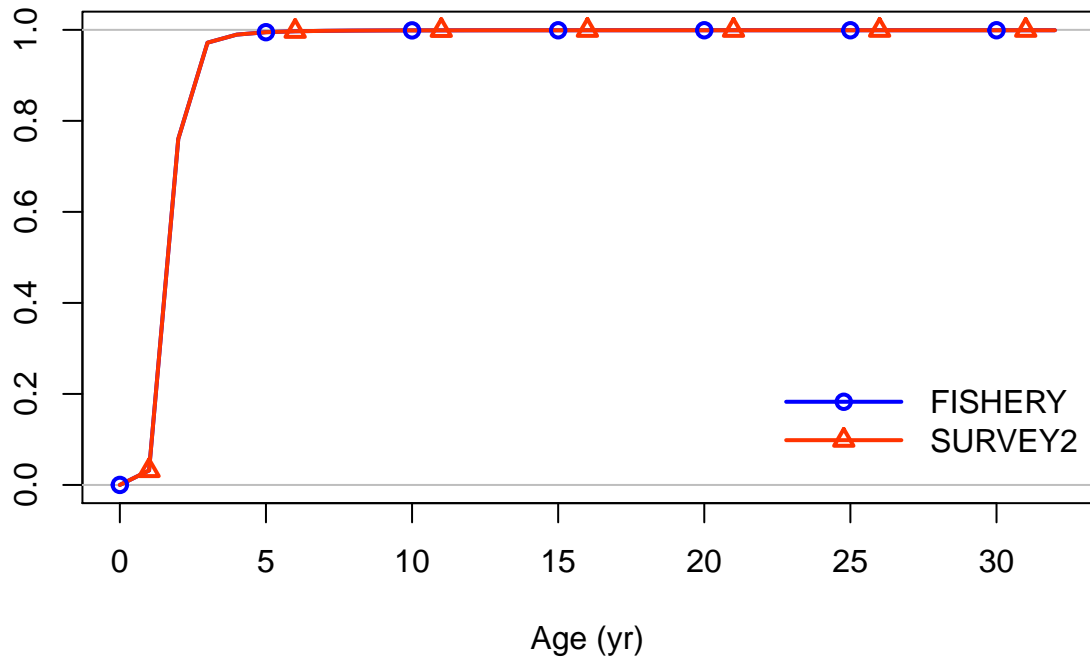
Spawning output



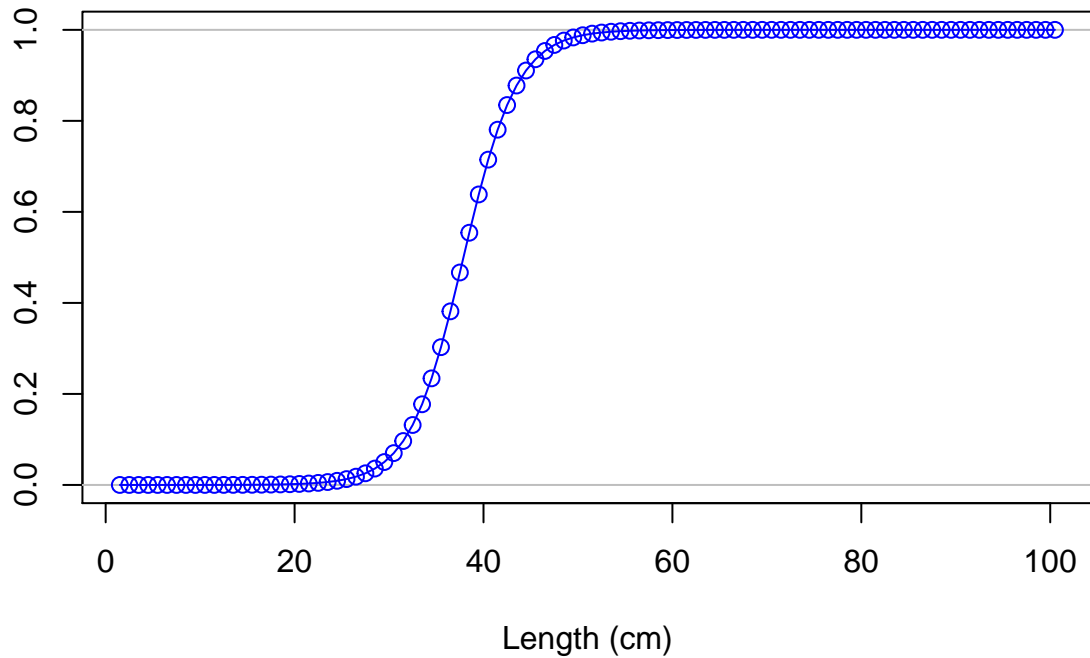
Selectivity



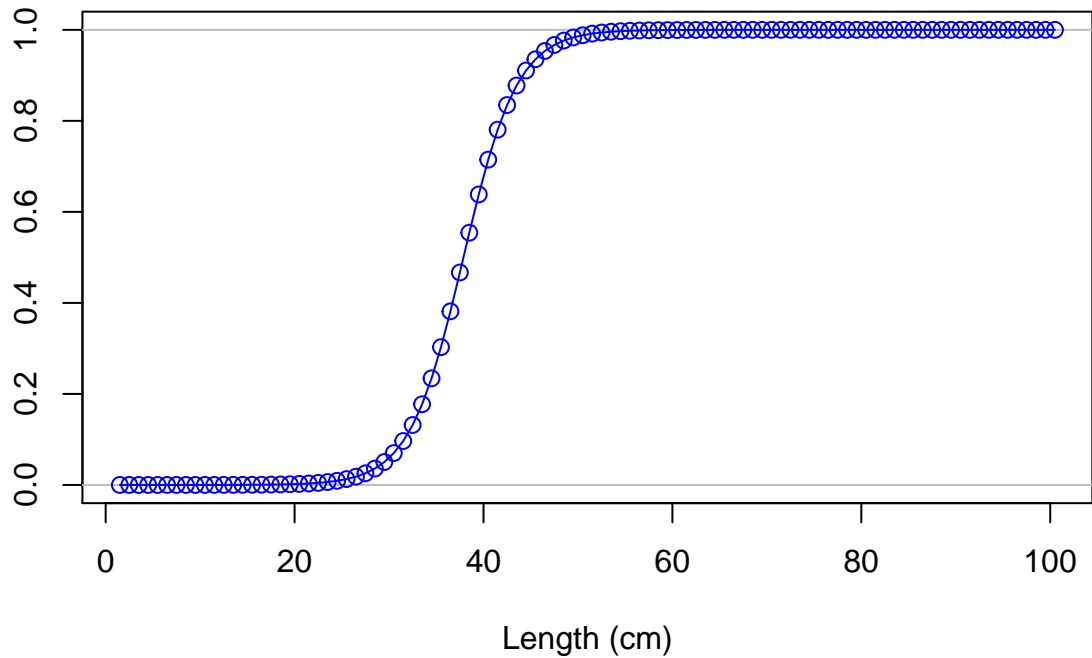
Selectivity

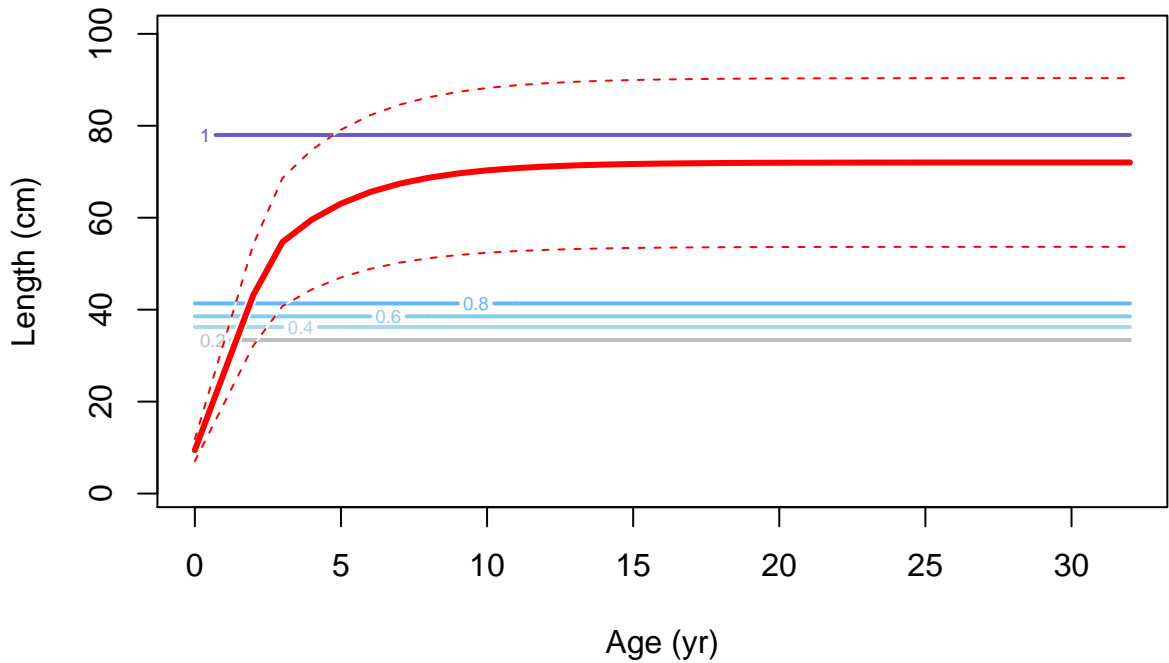


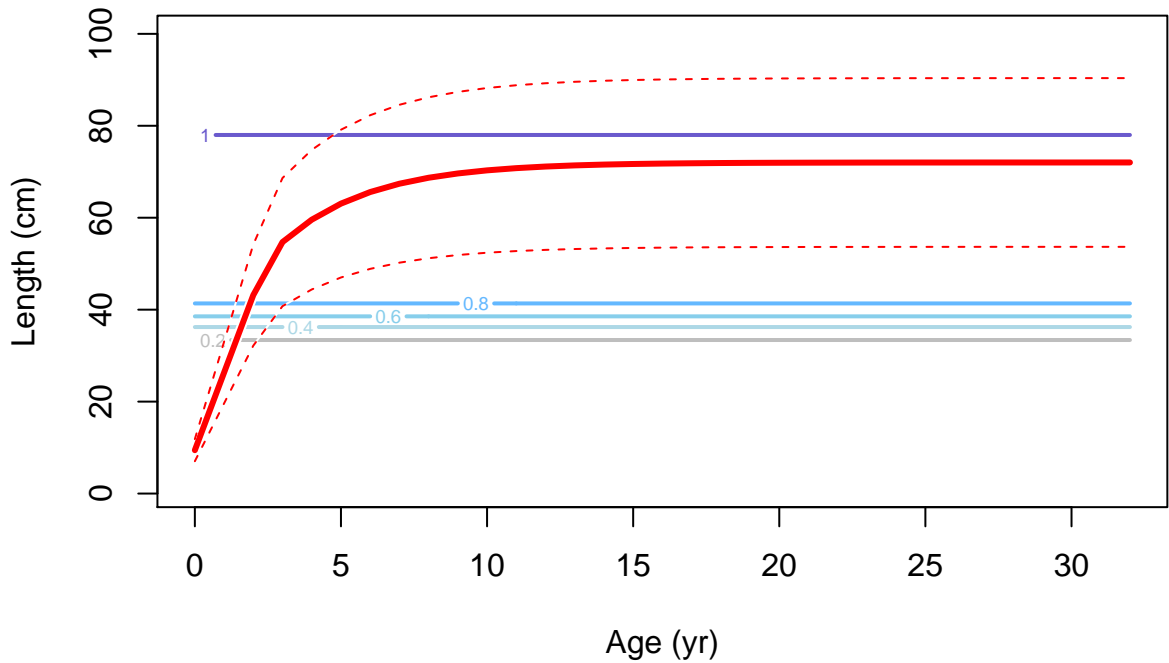
Selectivity

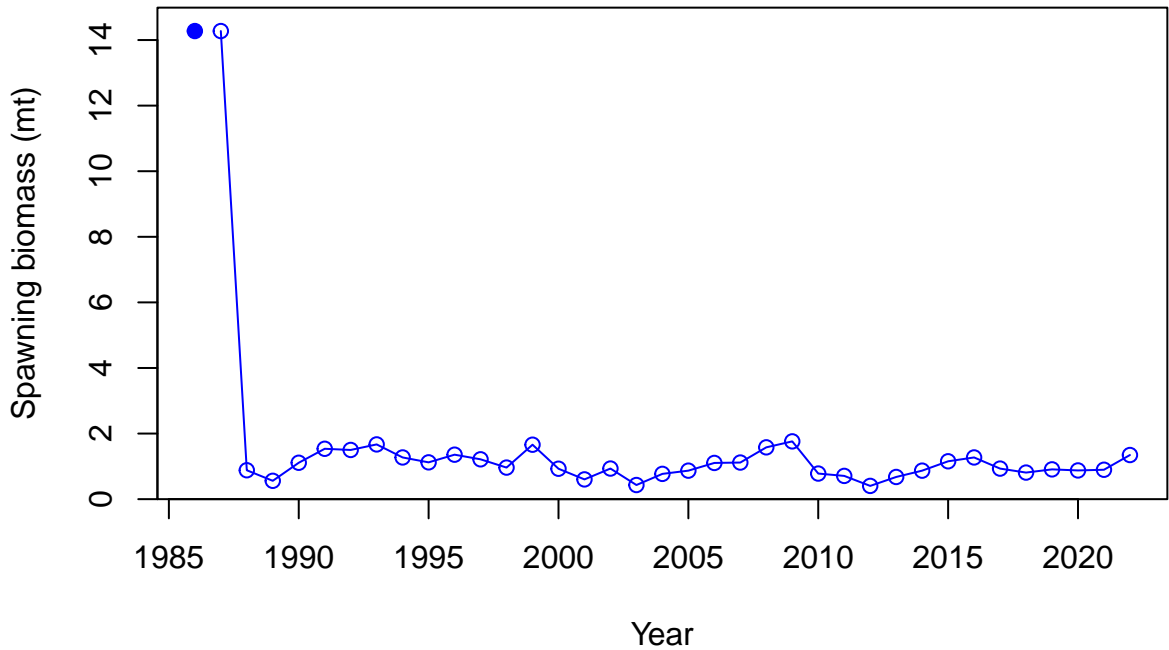


Selectivity









Spawning biomass (mt)

15
10
5
0

1985

1990

1995

2000

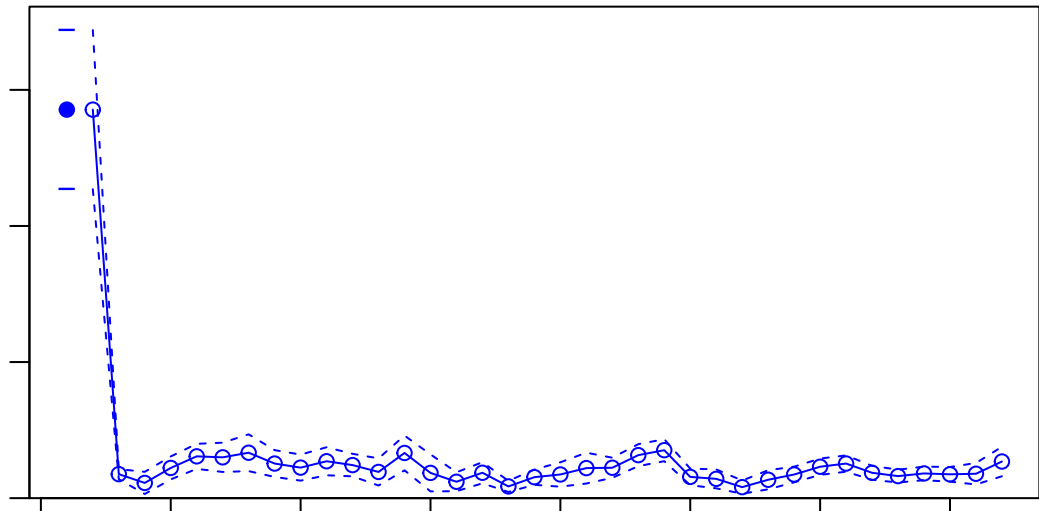
2005

2010

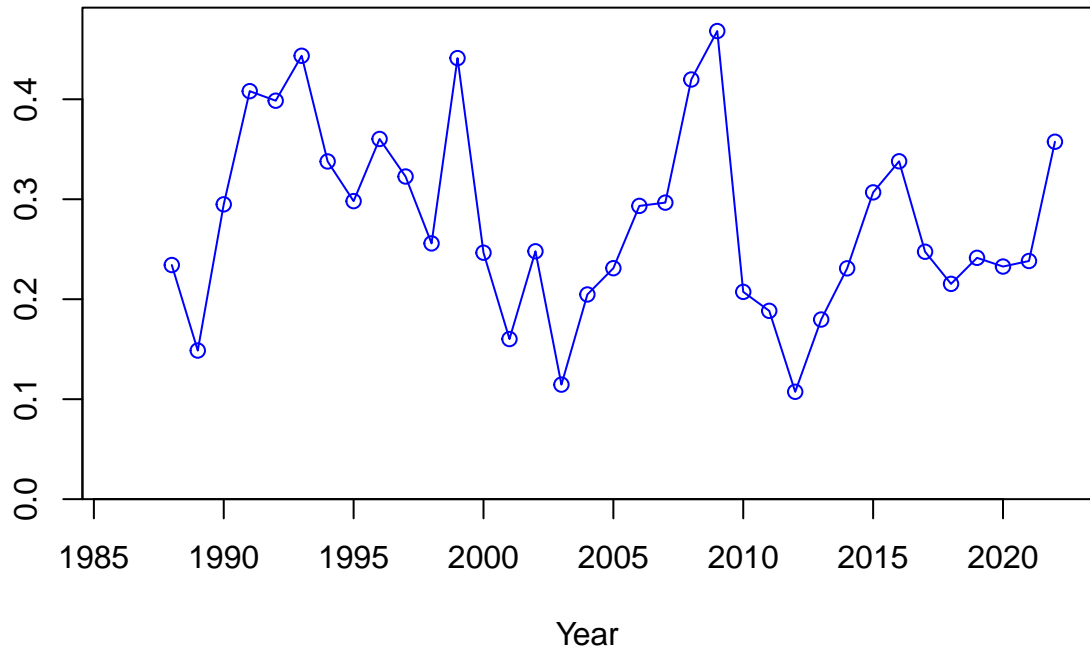
2015

2020

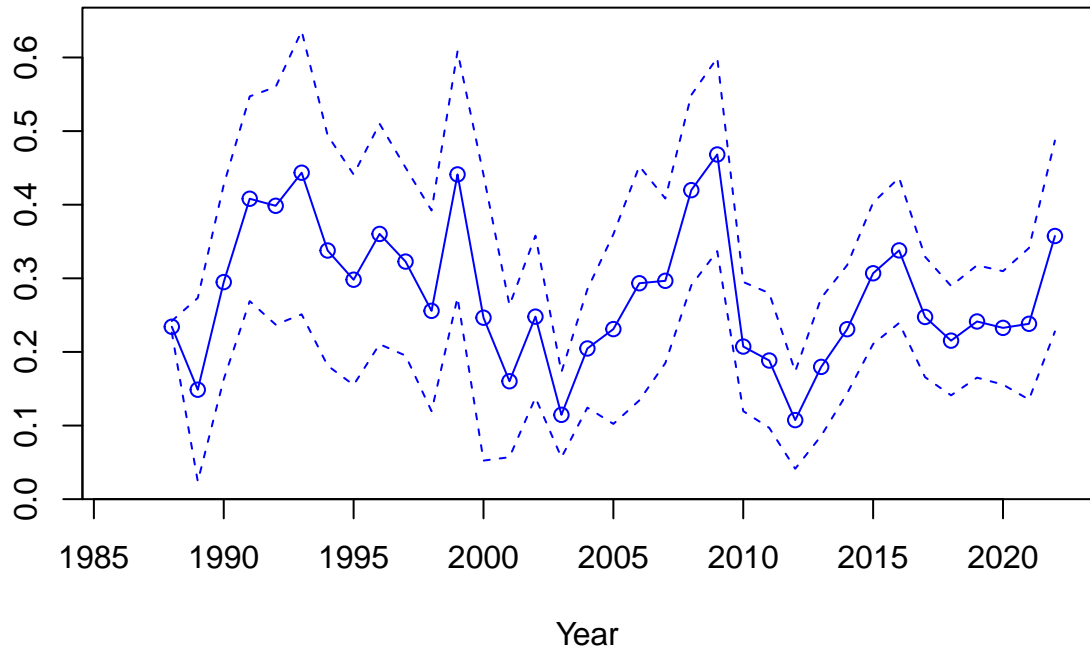
Year

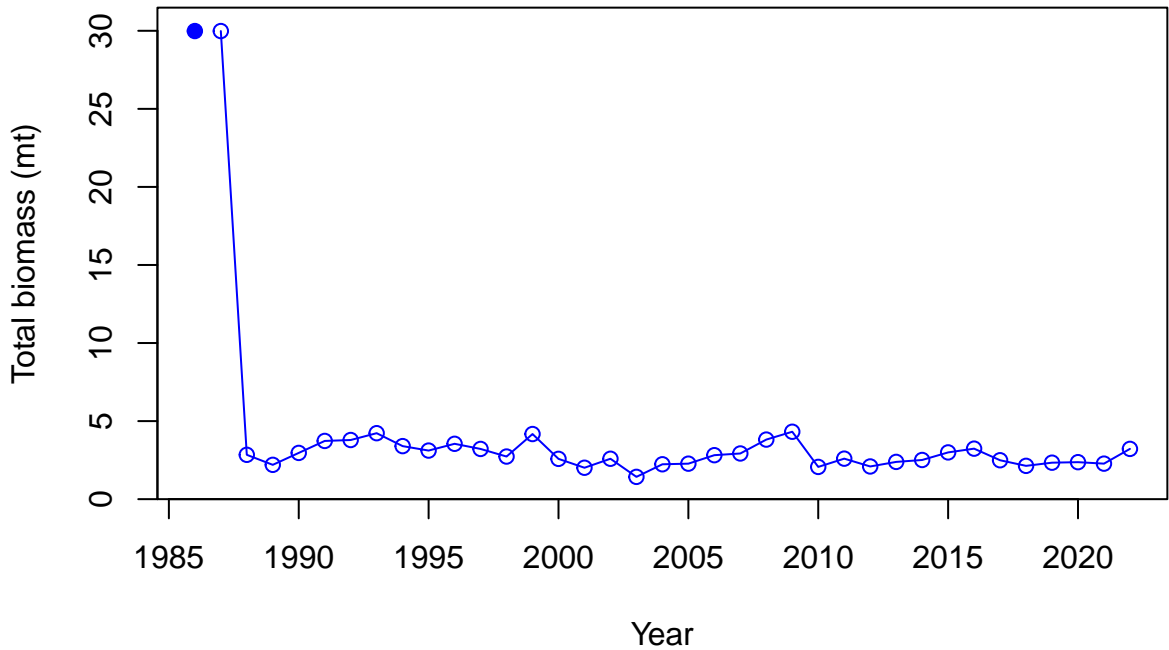


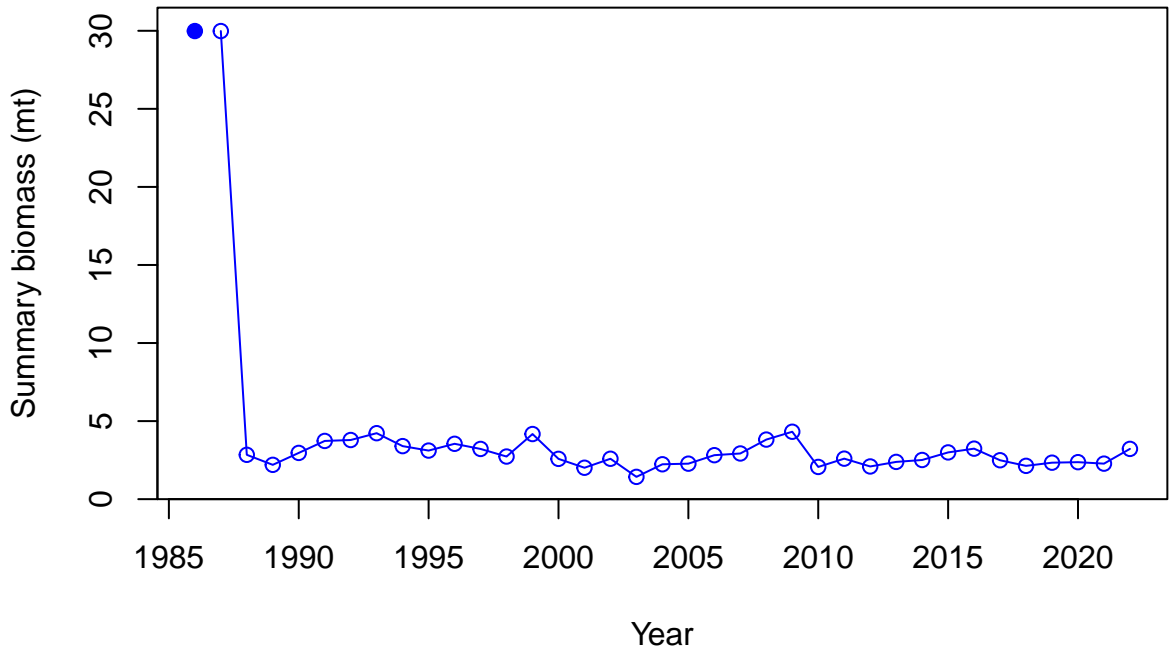
Relative spawning biomass: B/B_{MSY}

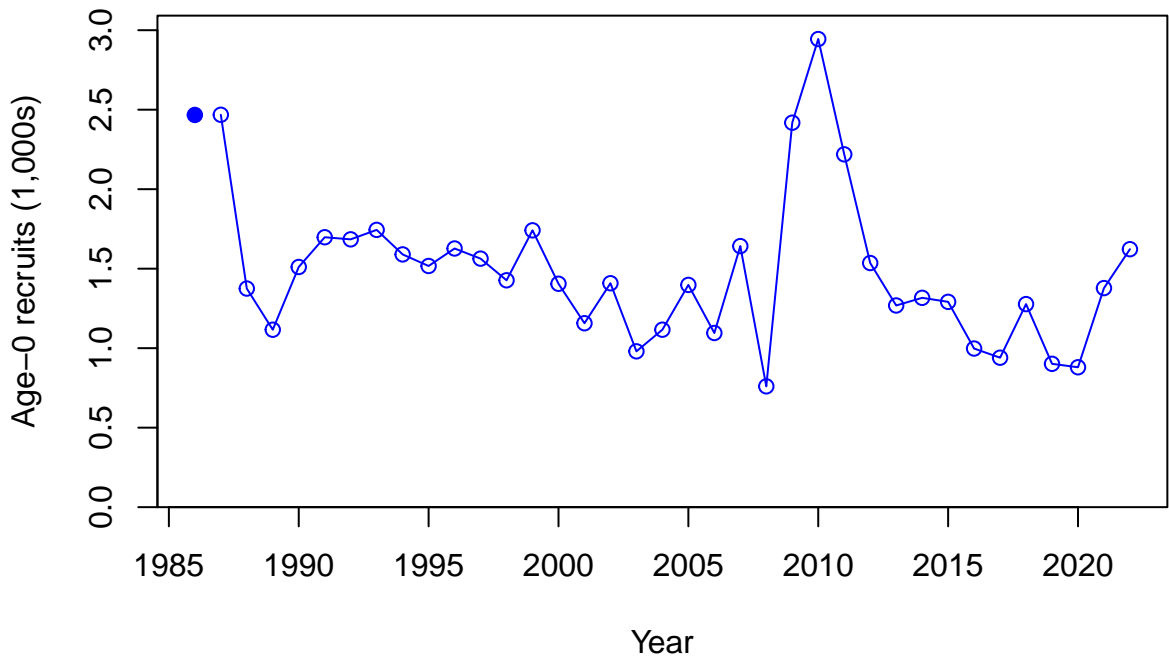


Relative spawning biomass: B/B_{MSY}

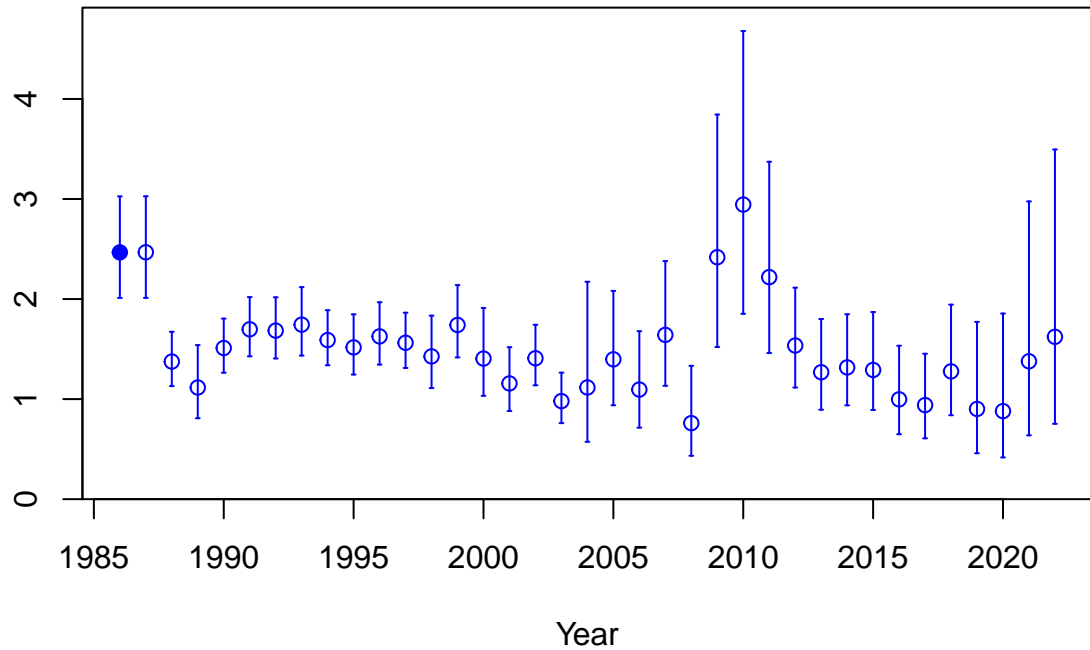




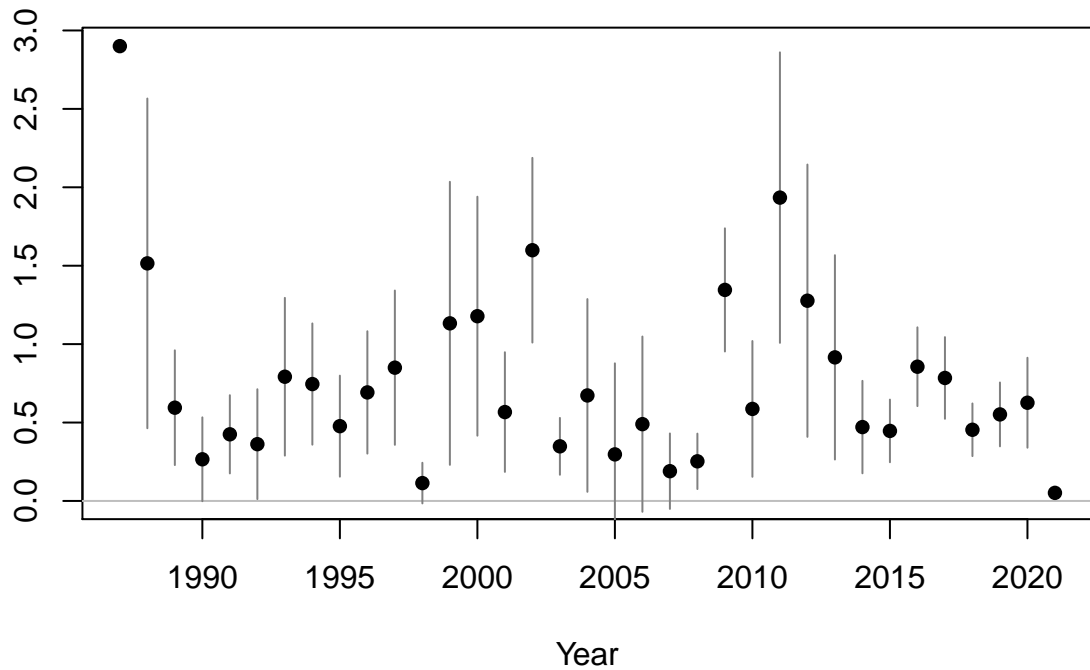


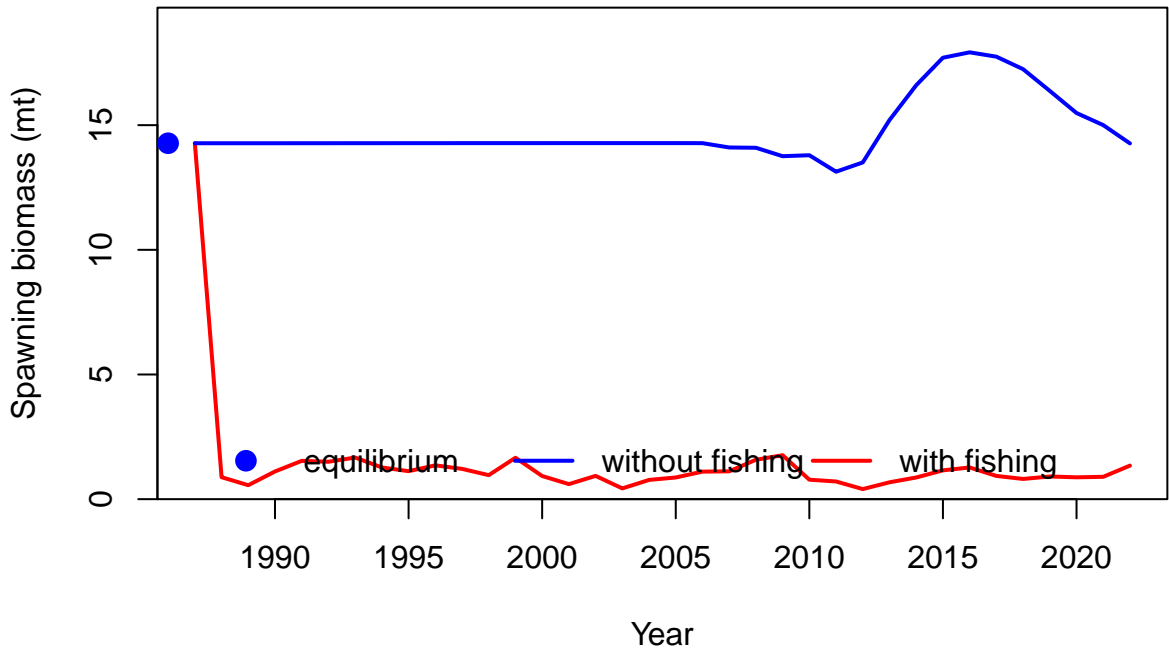


Age-0 recruits (1,000s)

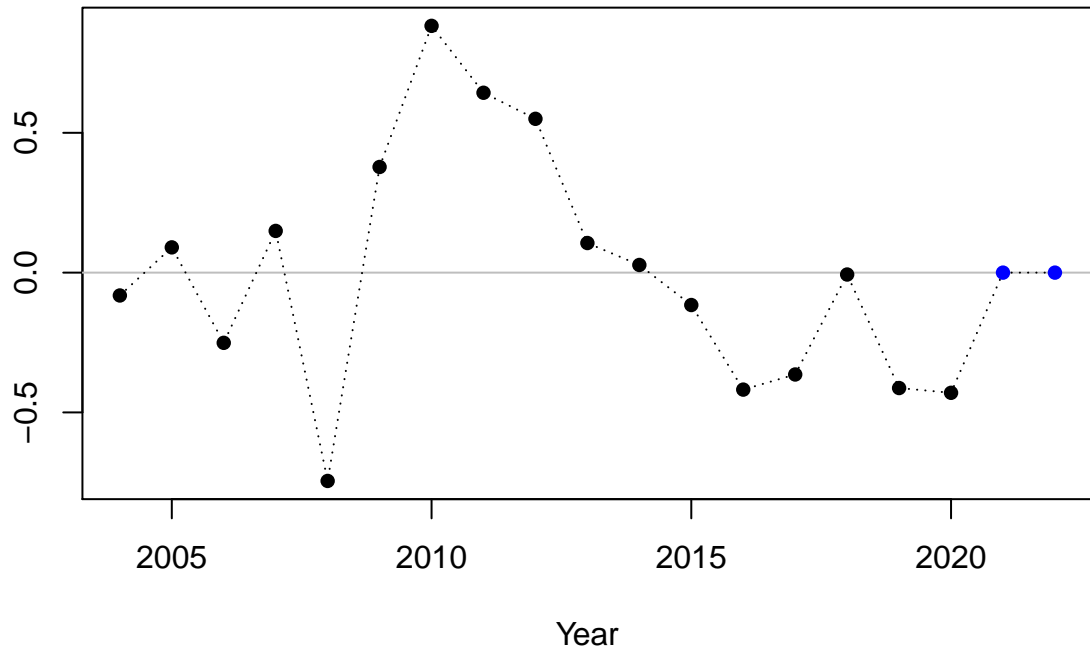


Summary Fishing Mortality

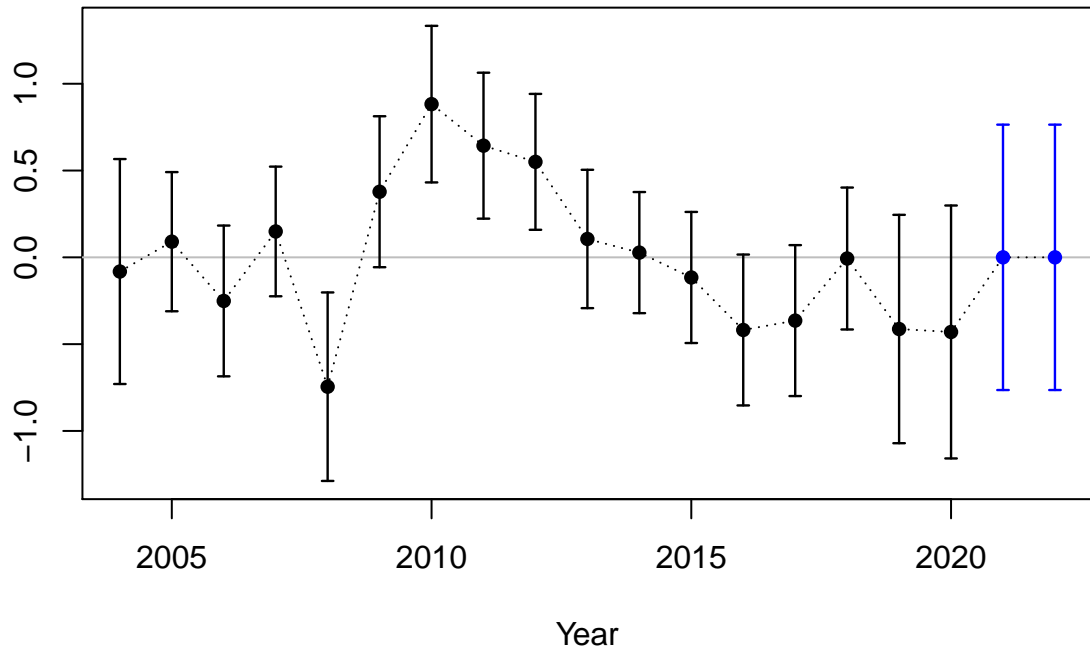




Log recruitment deviation



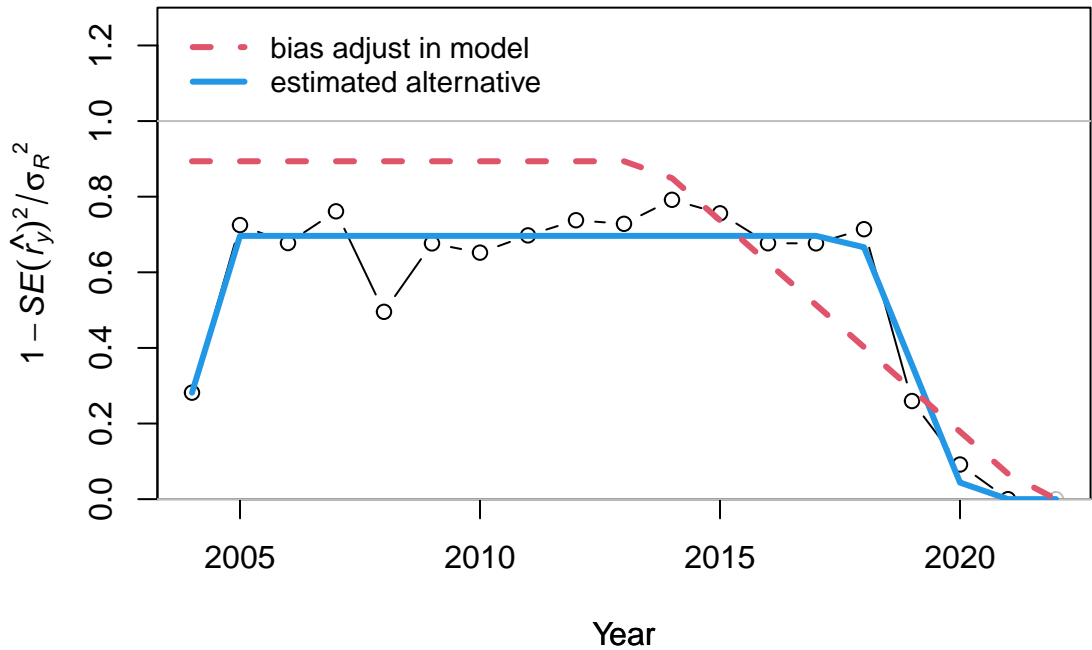
Log recruitment deviation

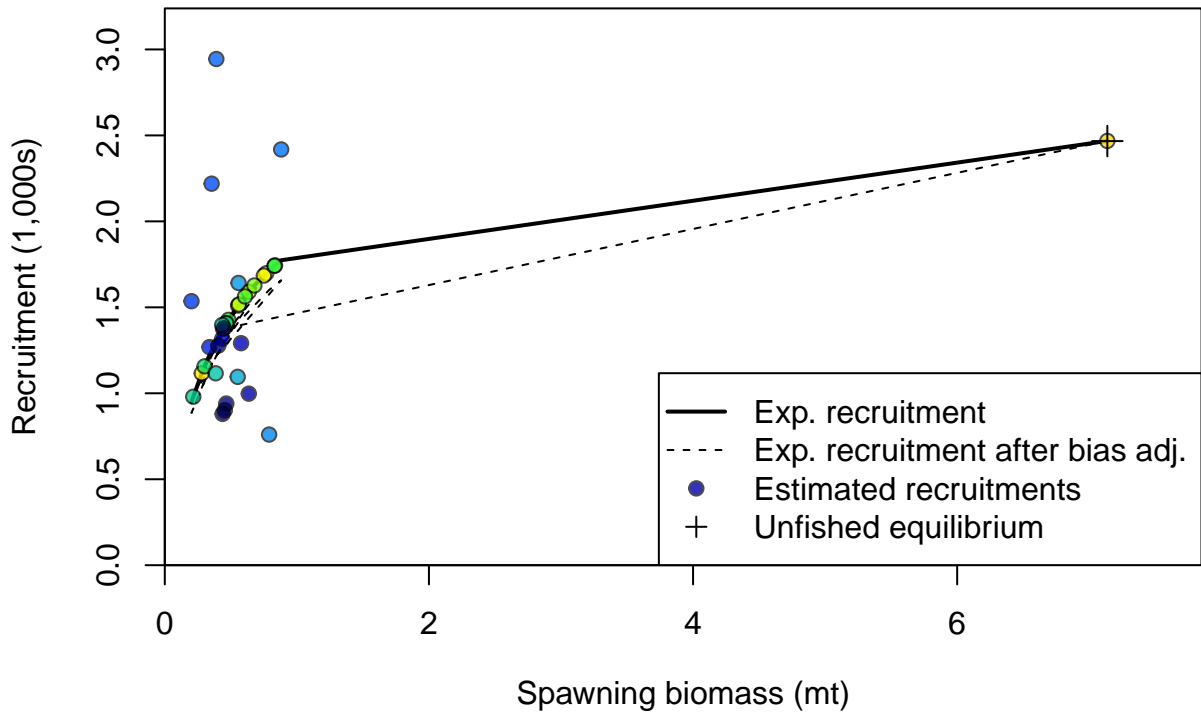


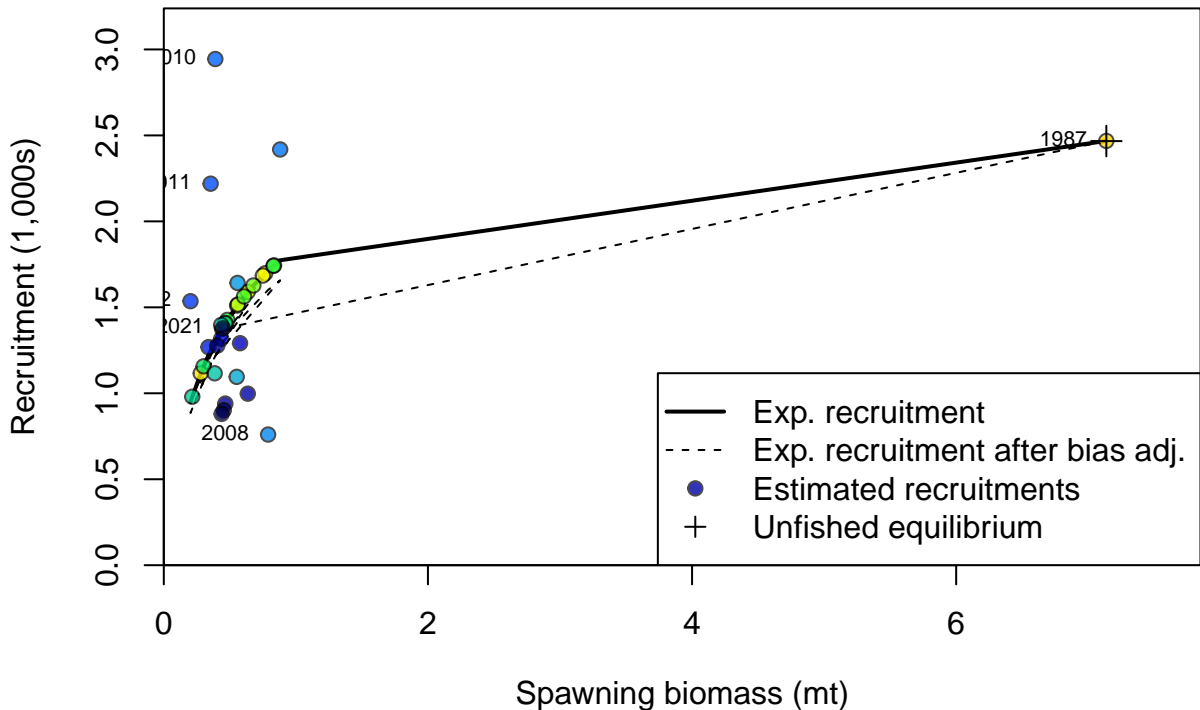
Recruitment deviation variance

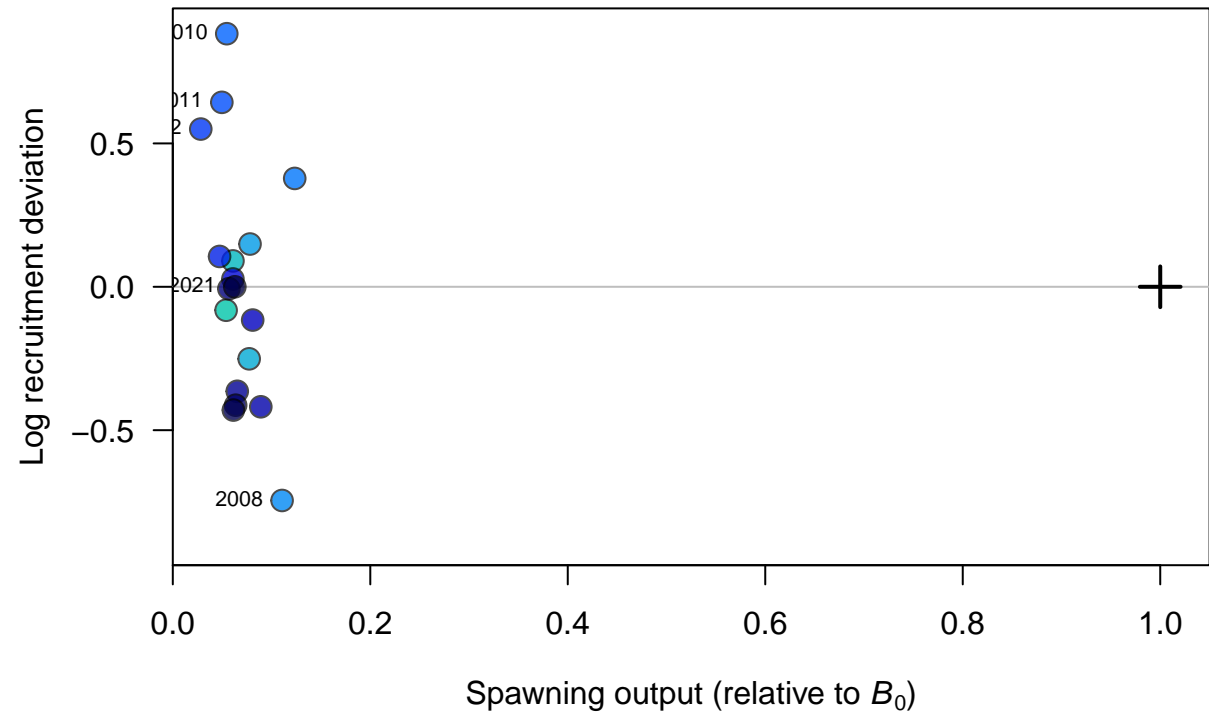
Asymptotic standard error estimate

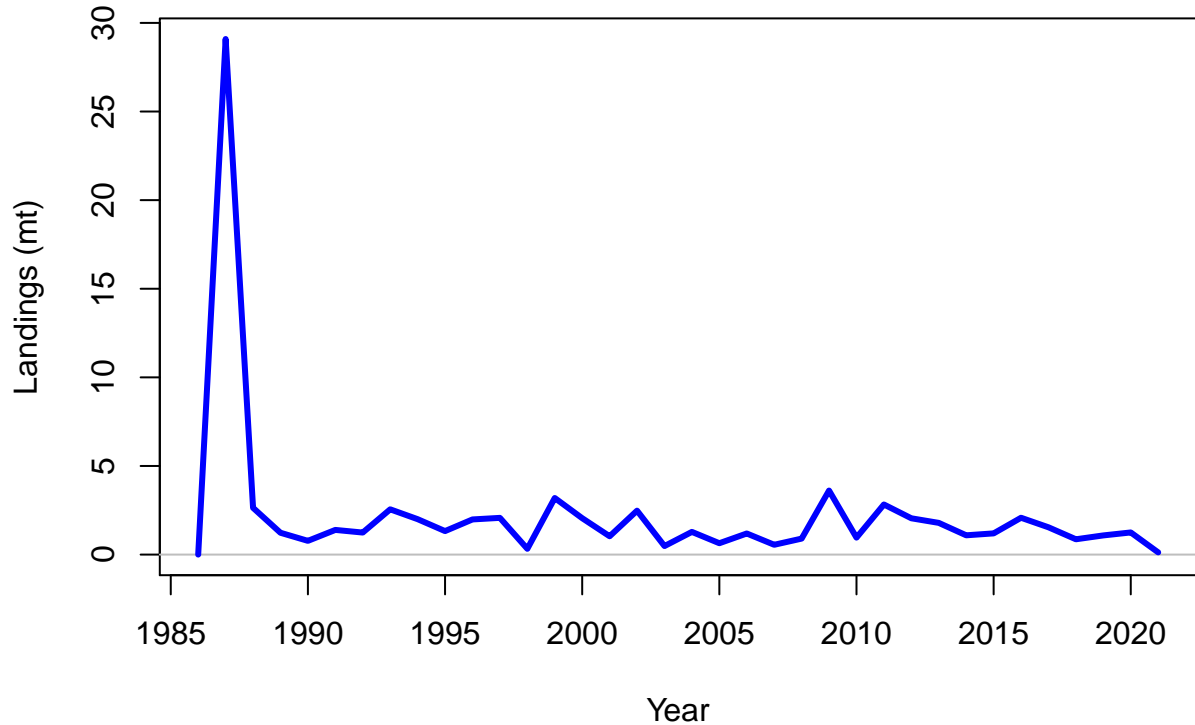


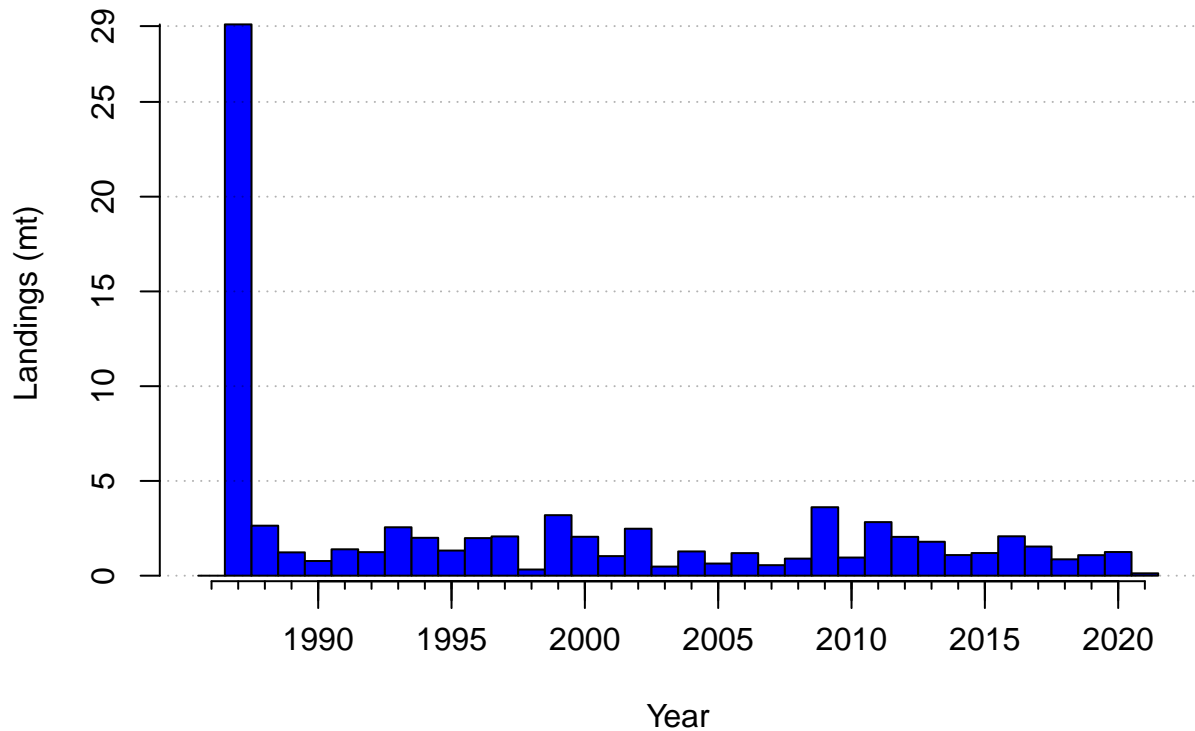


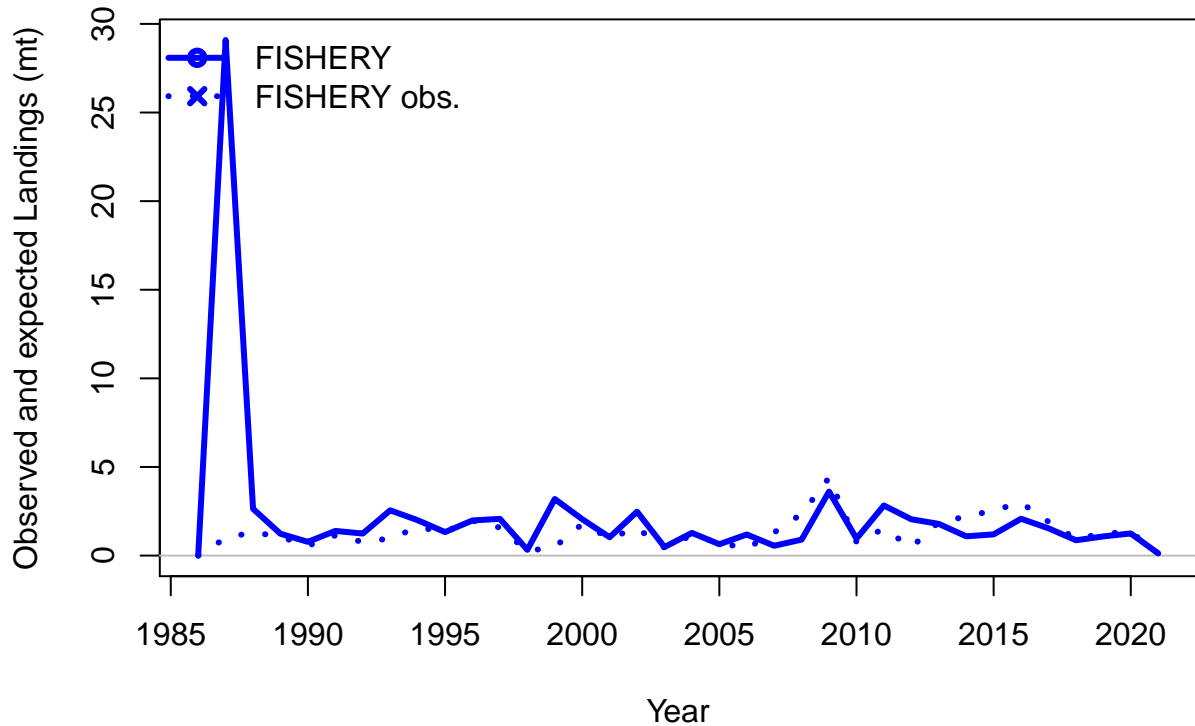


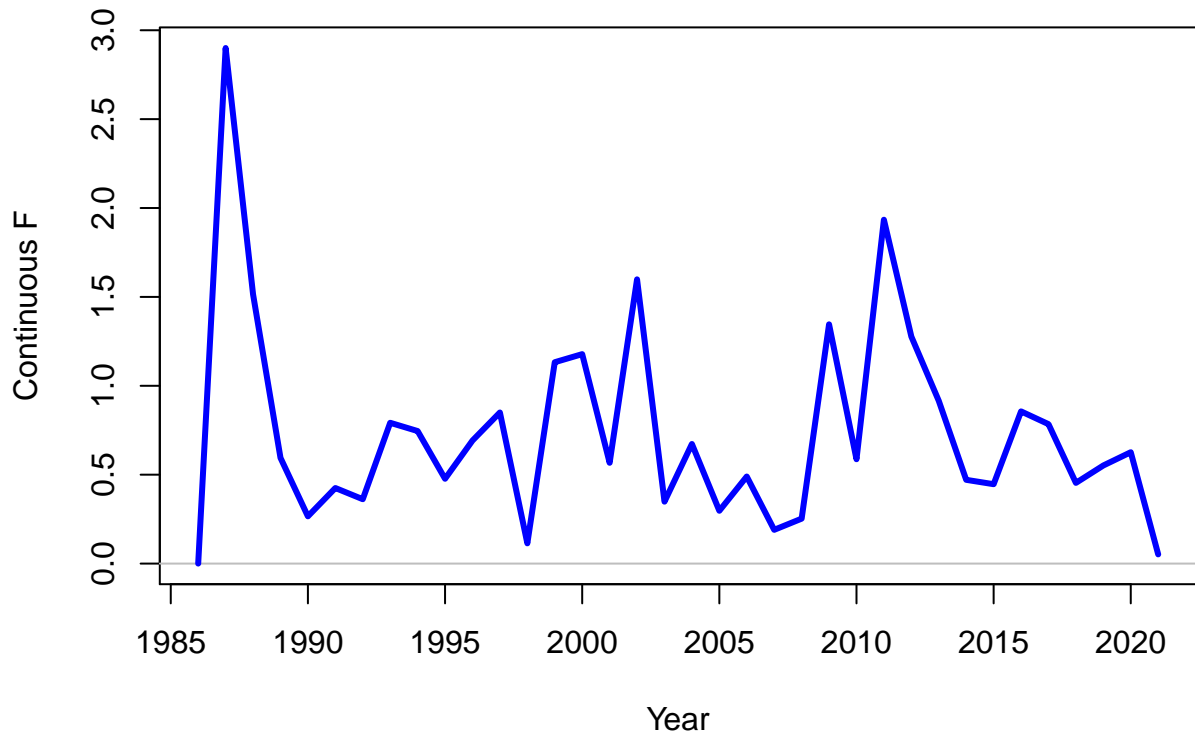




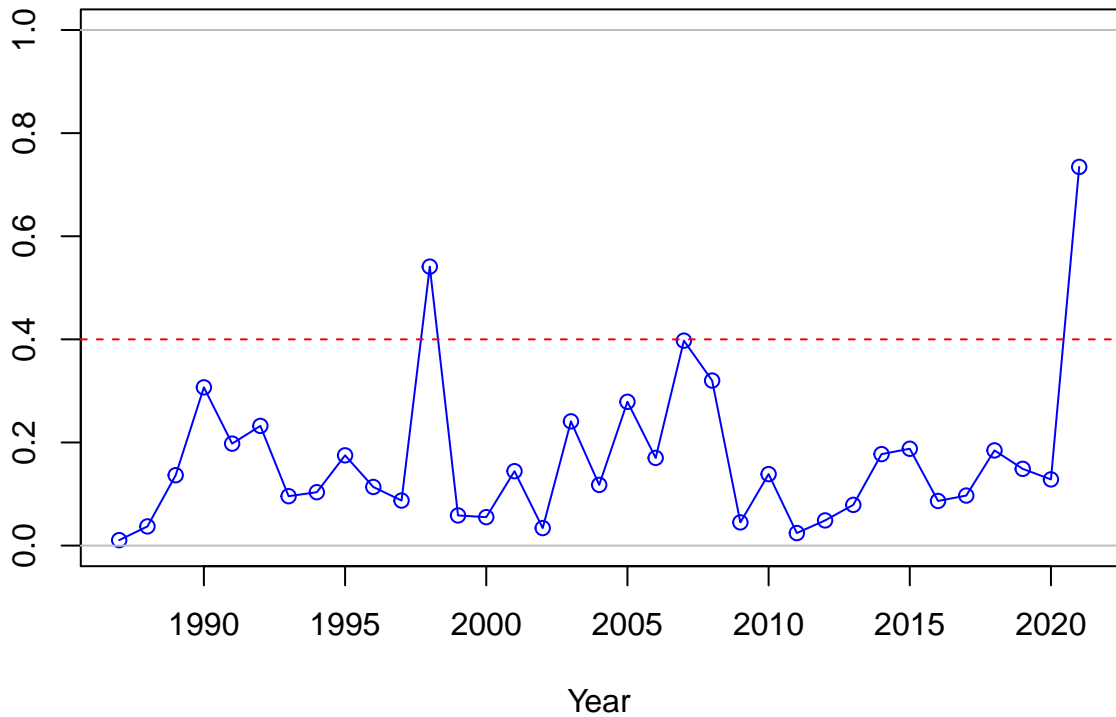




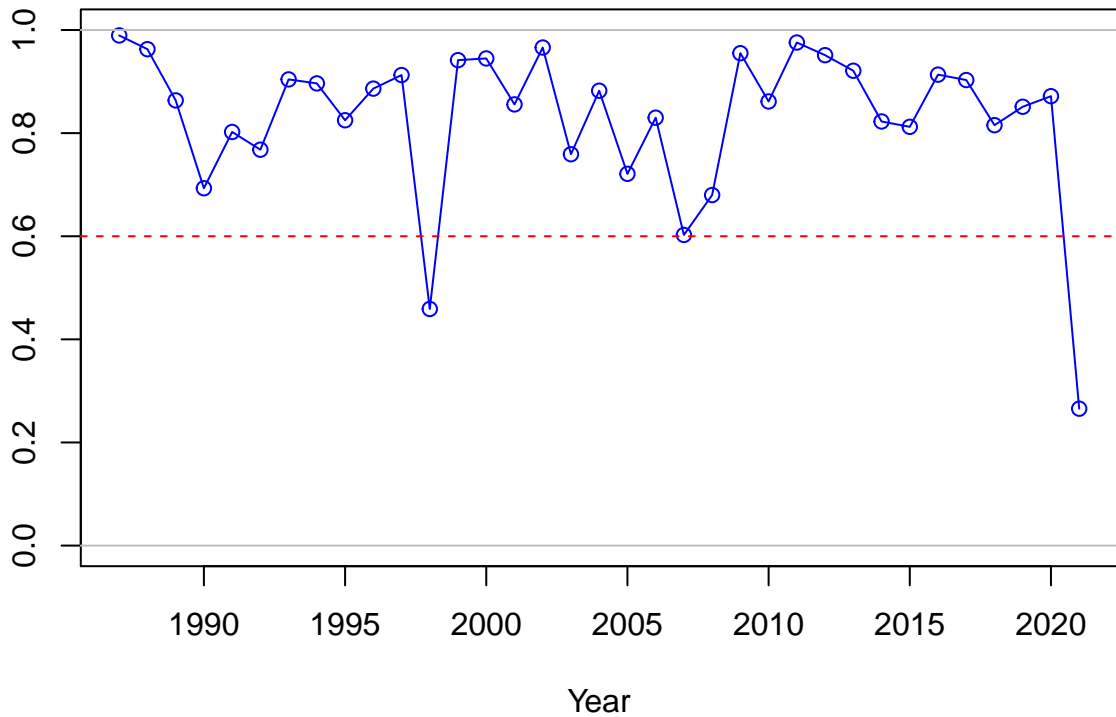




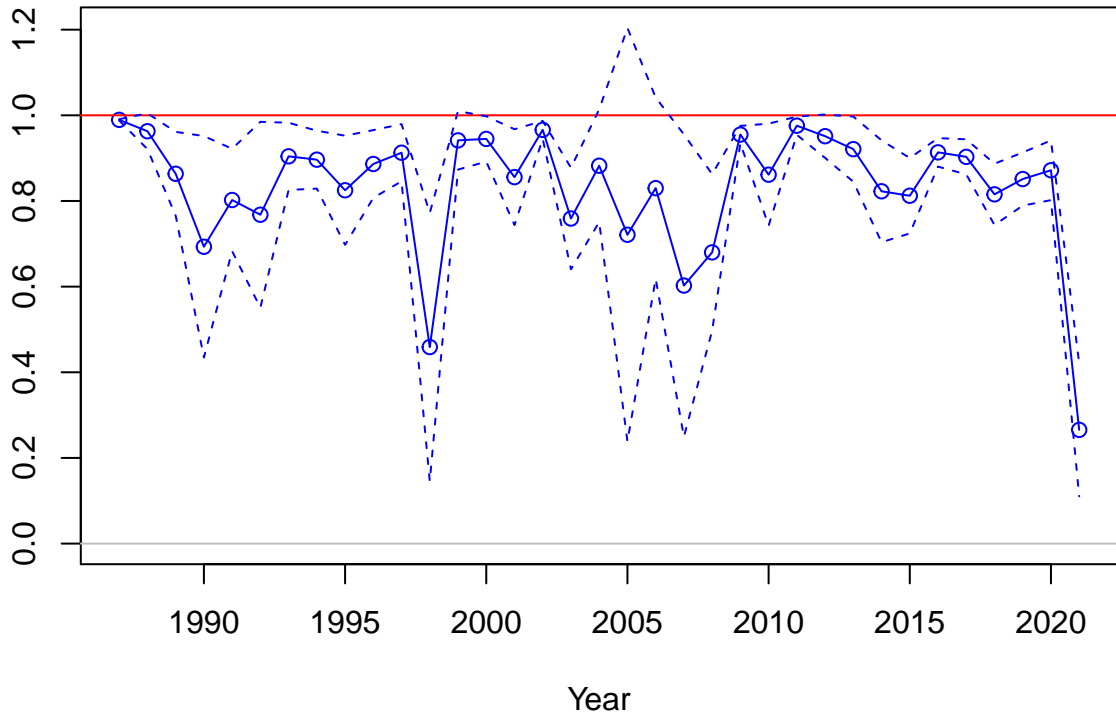
SPR



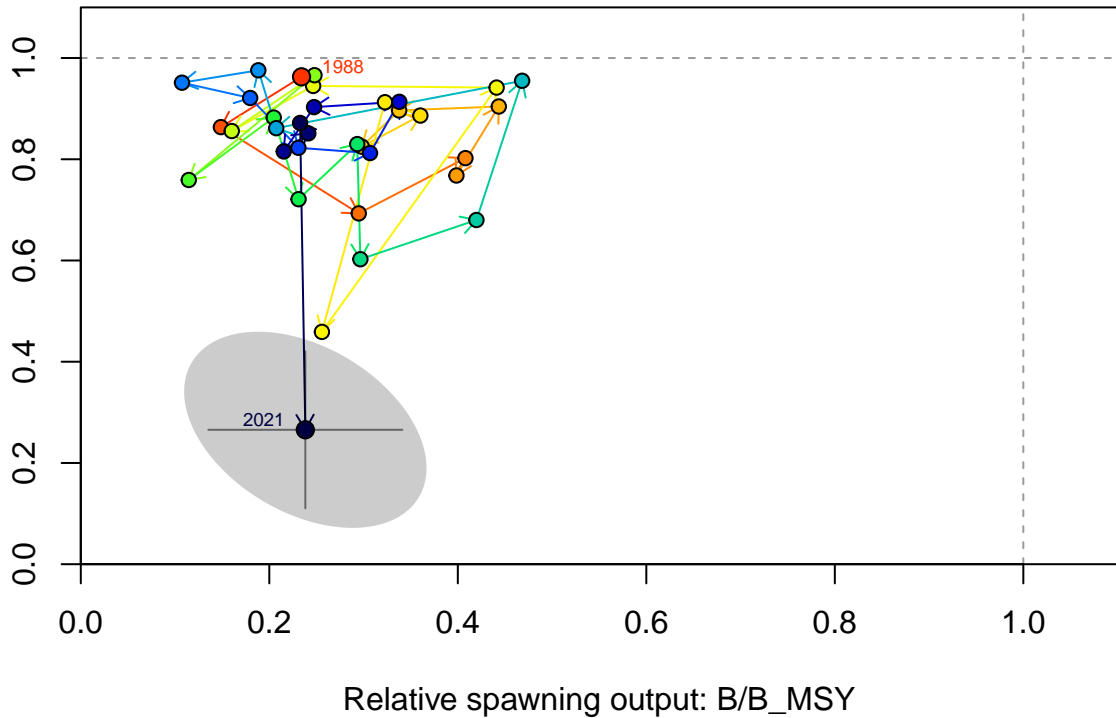
1-SPR



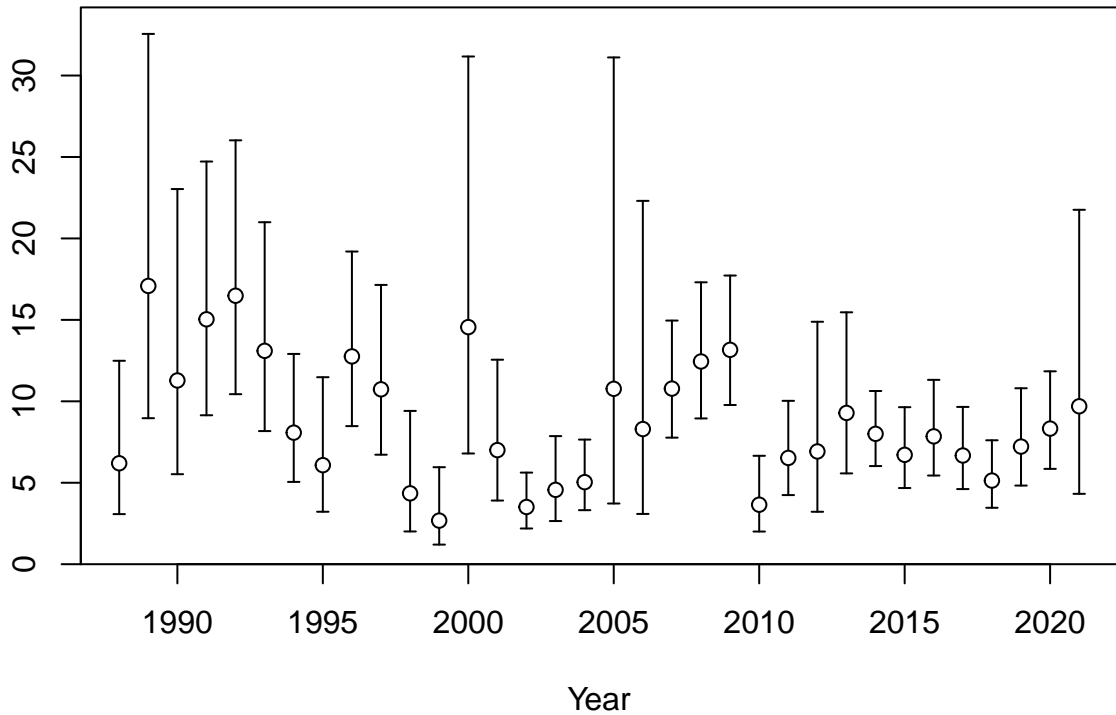
Fishing intensity: 1-SPR



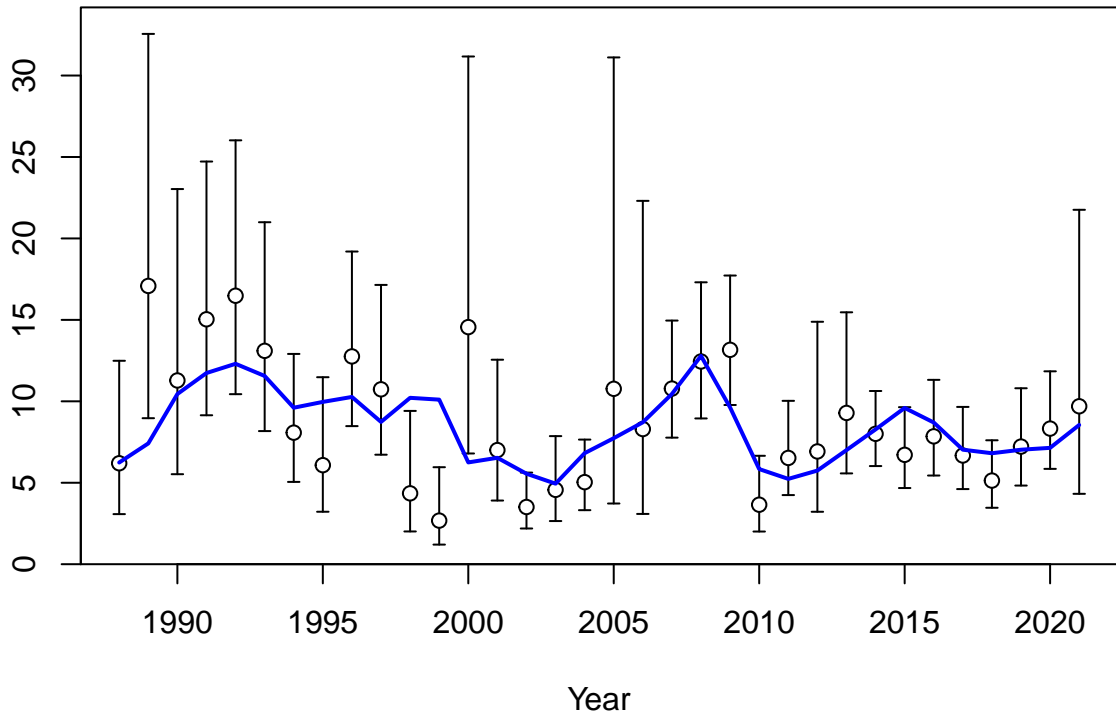
Fishing intensity: 1-SPR

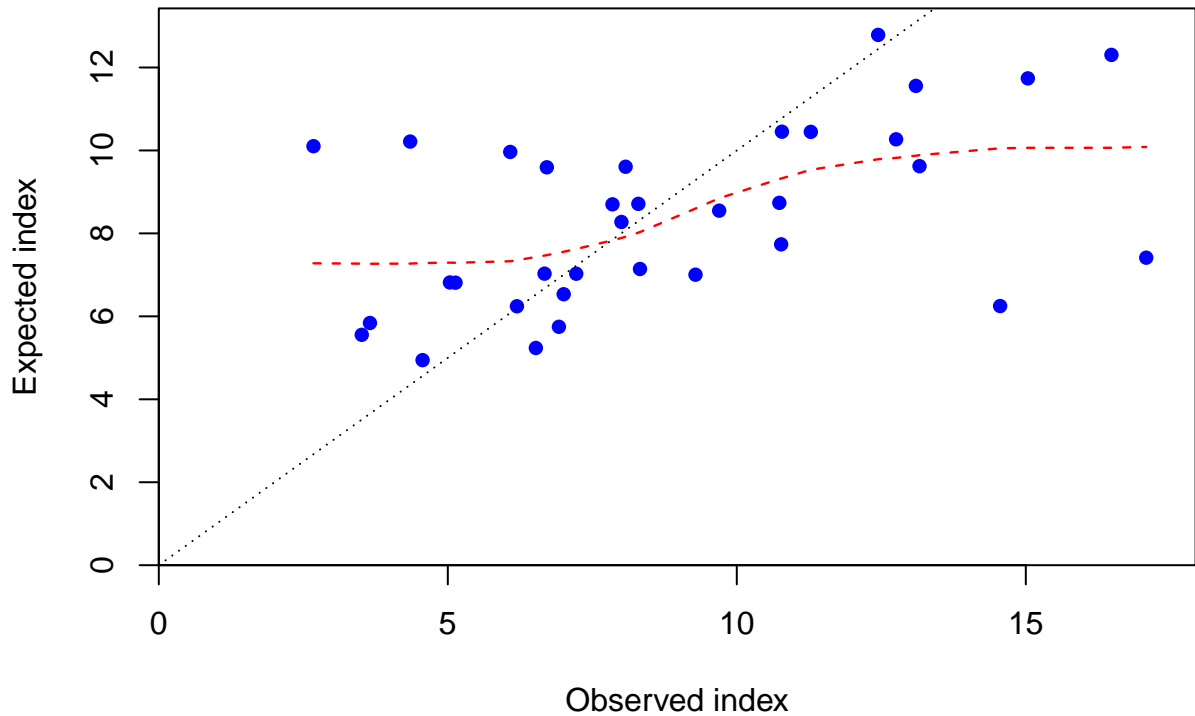


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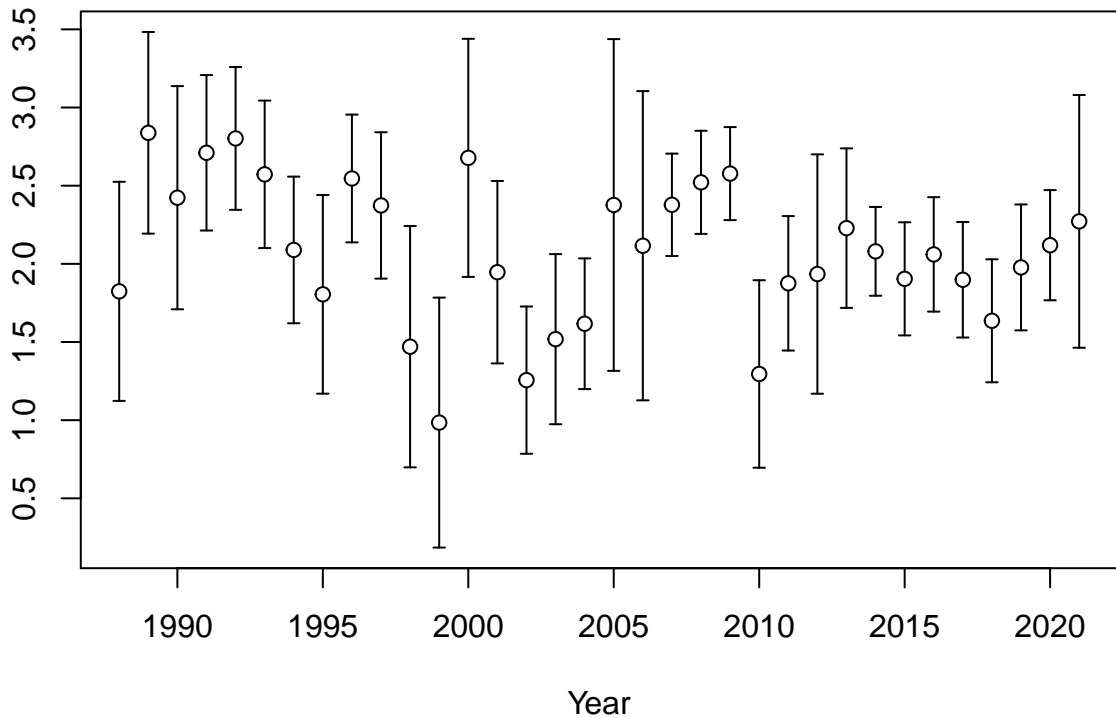


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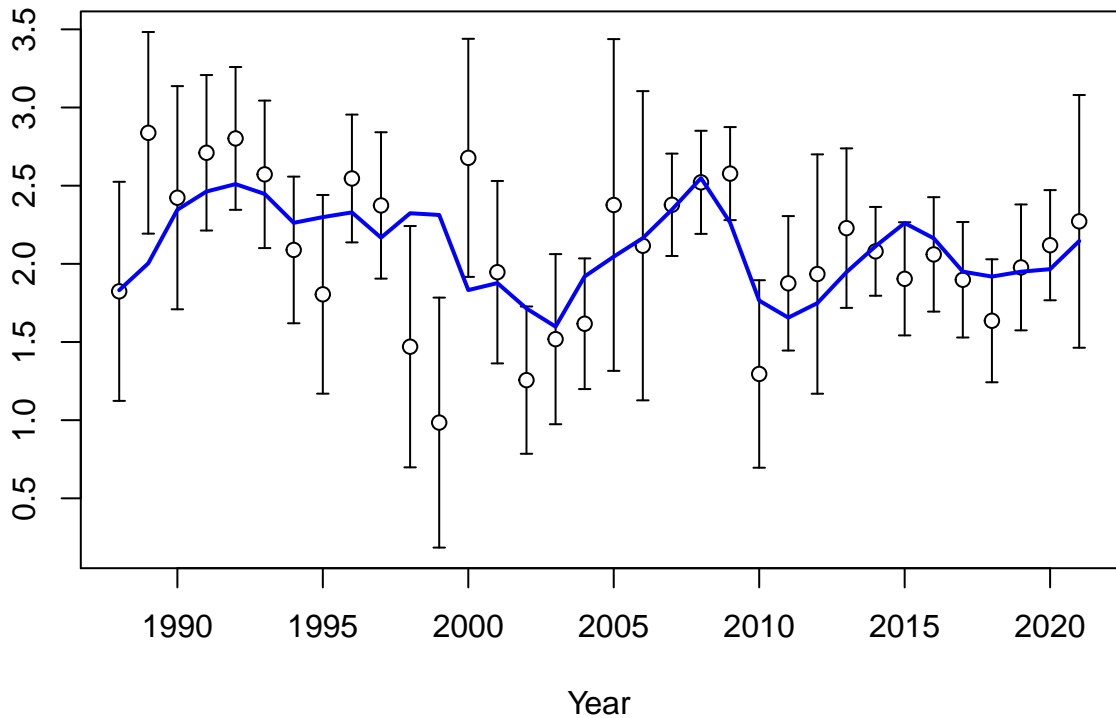


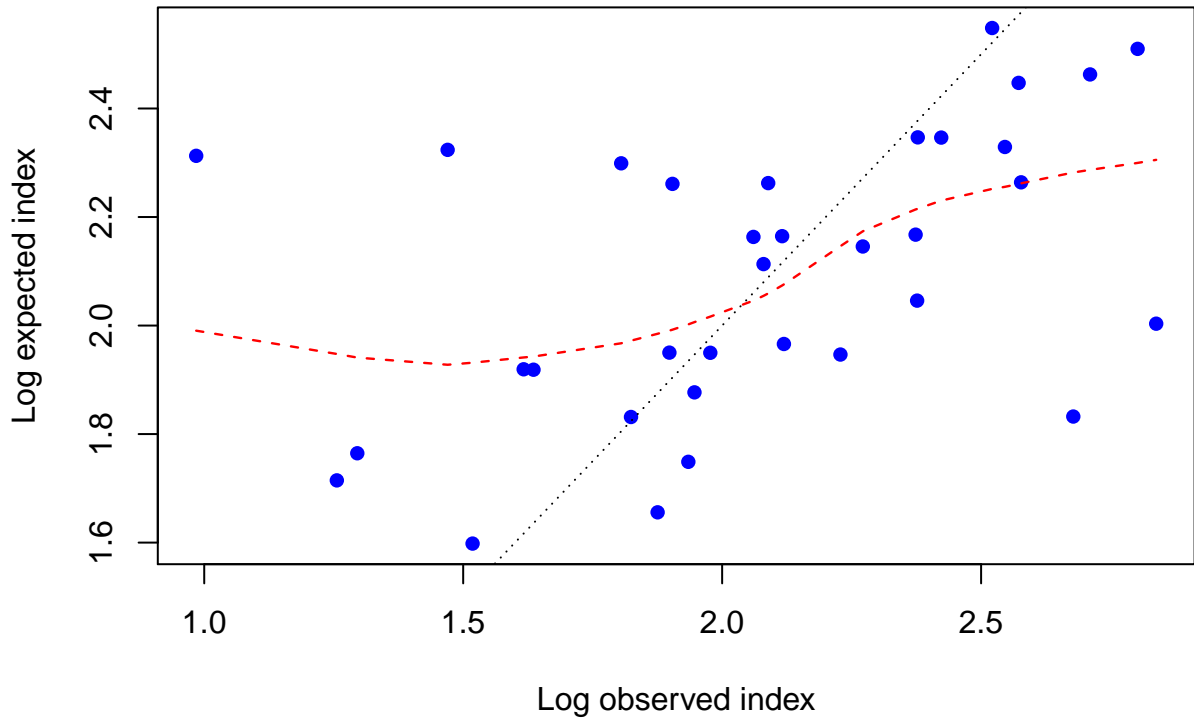


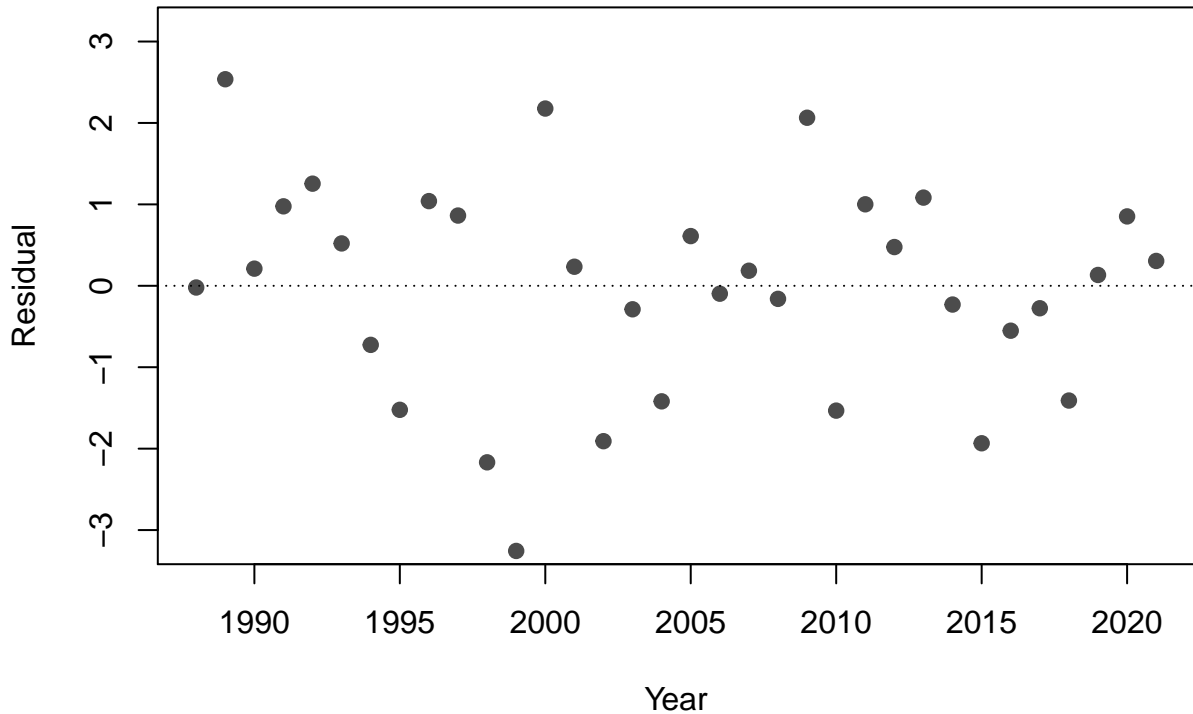
Log index

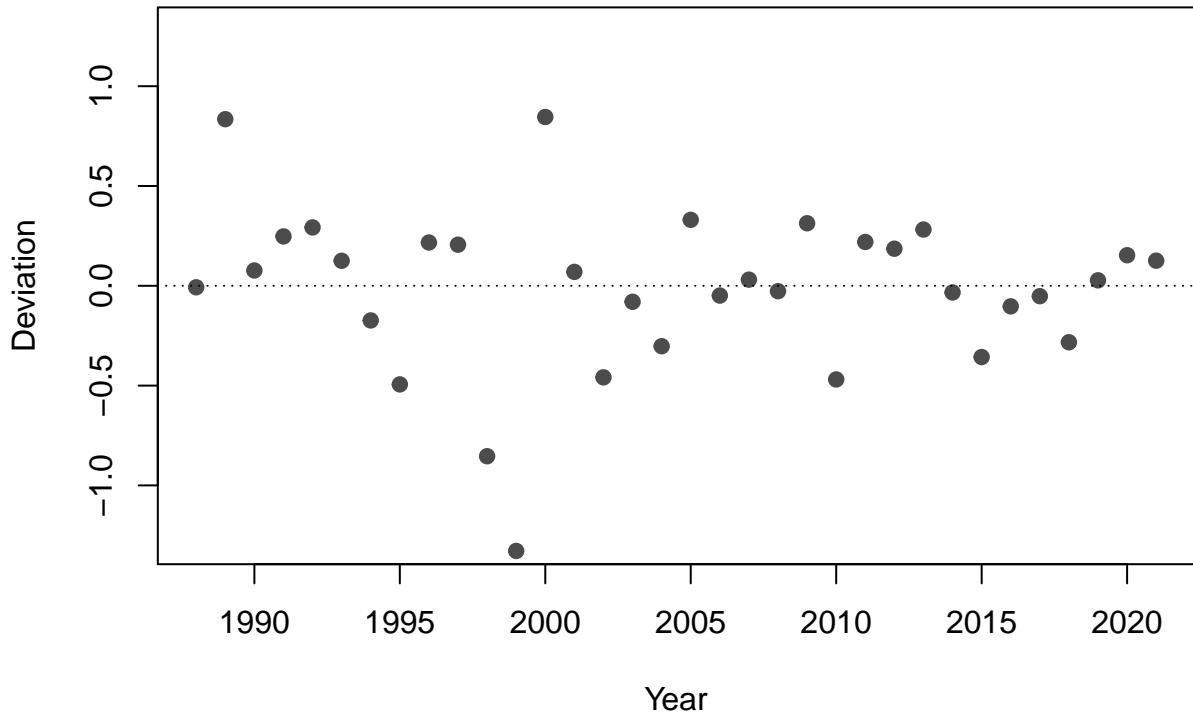


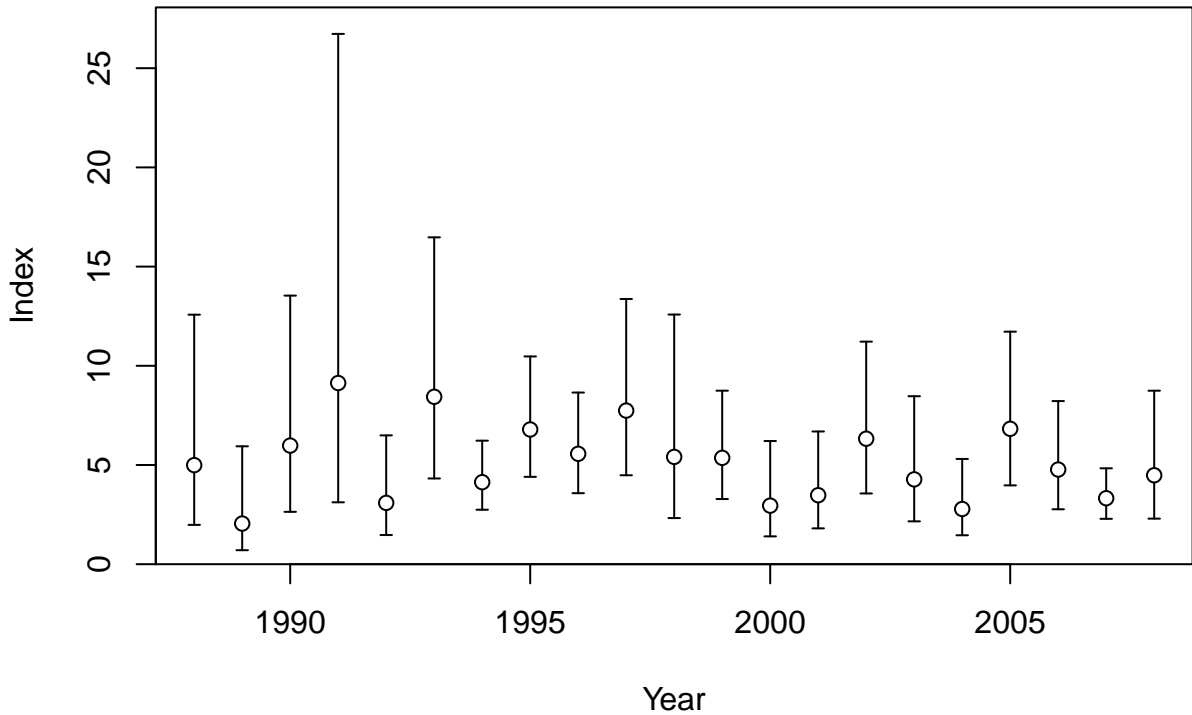
Log index



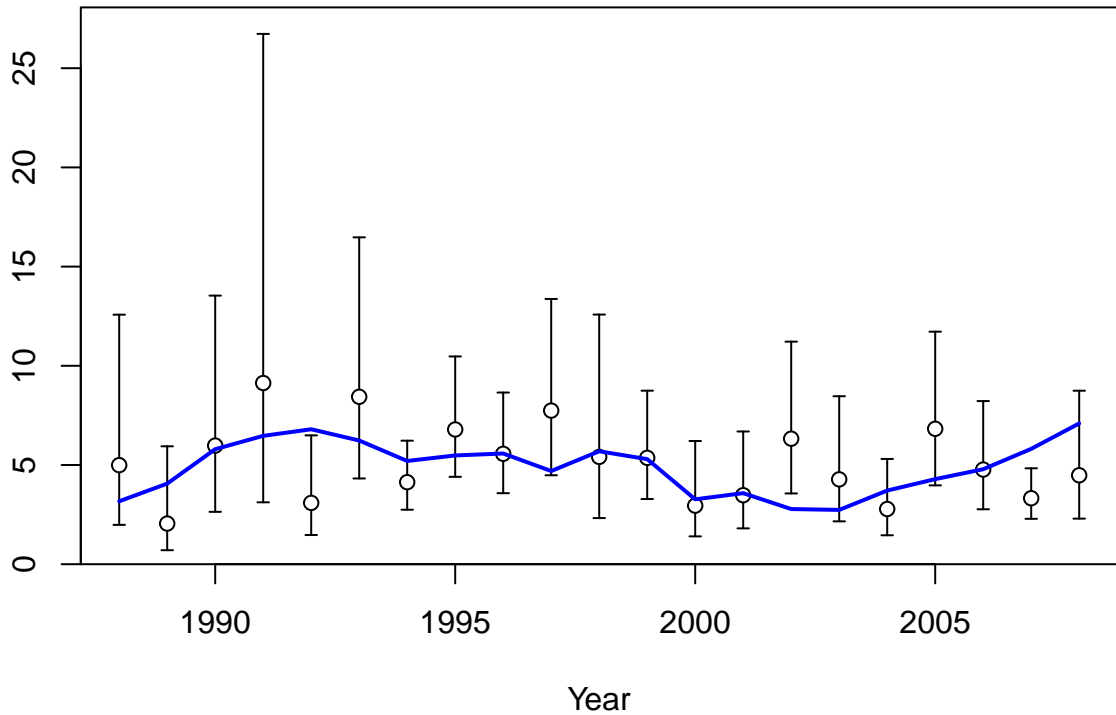


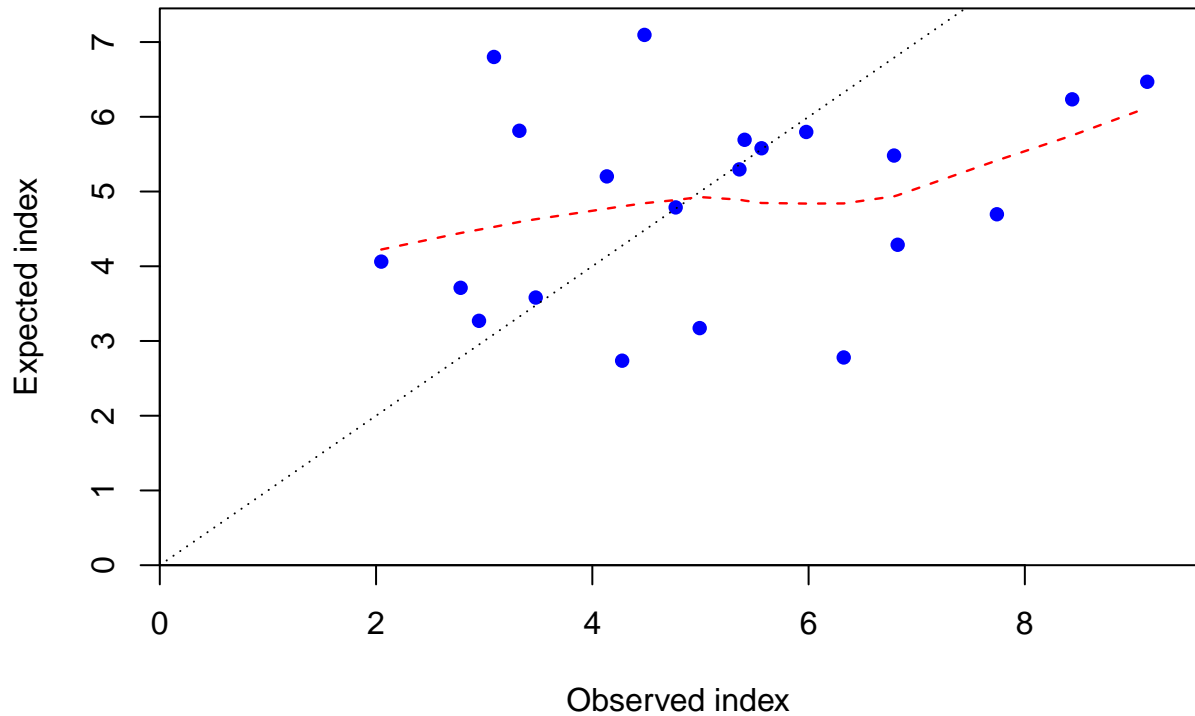


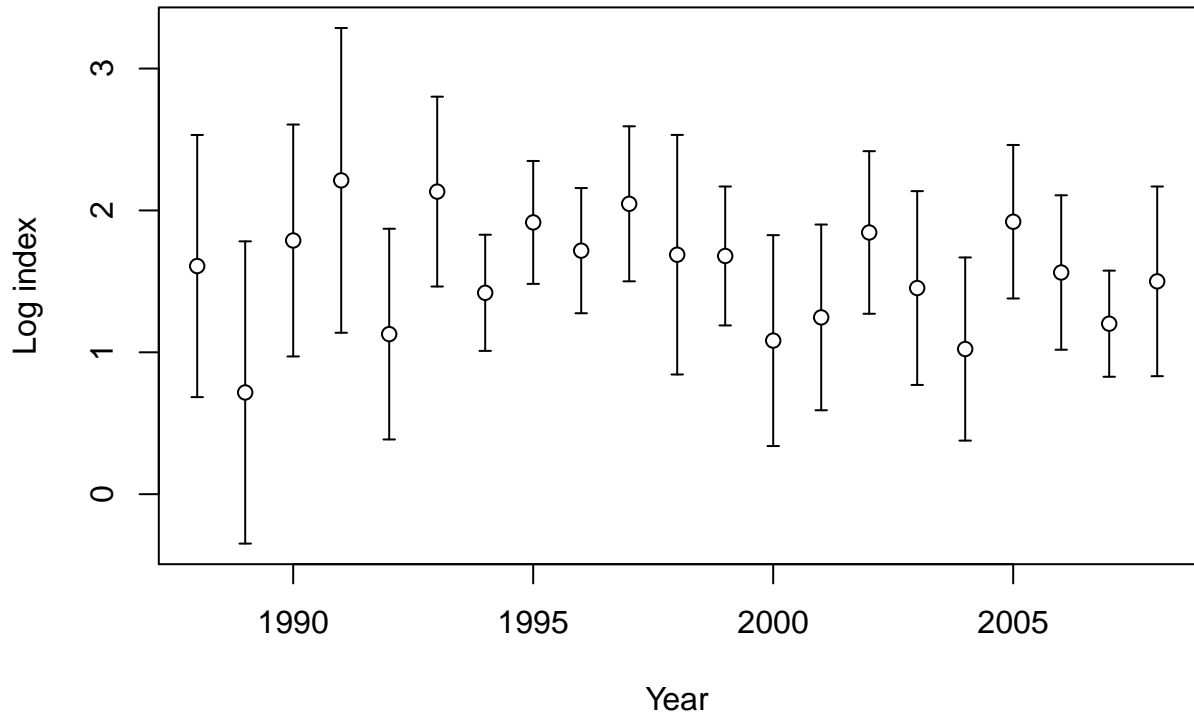


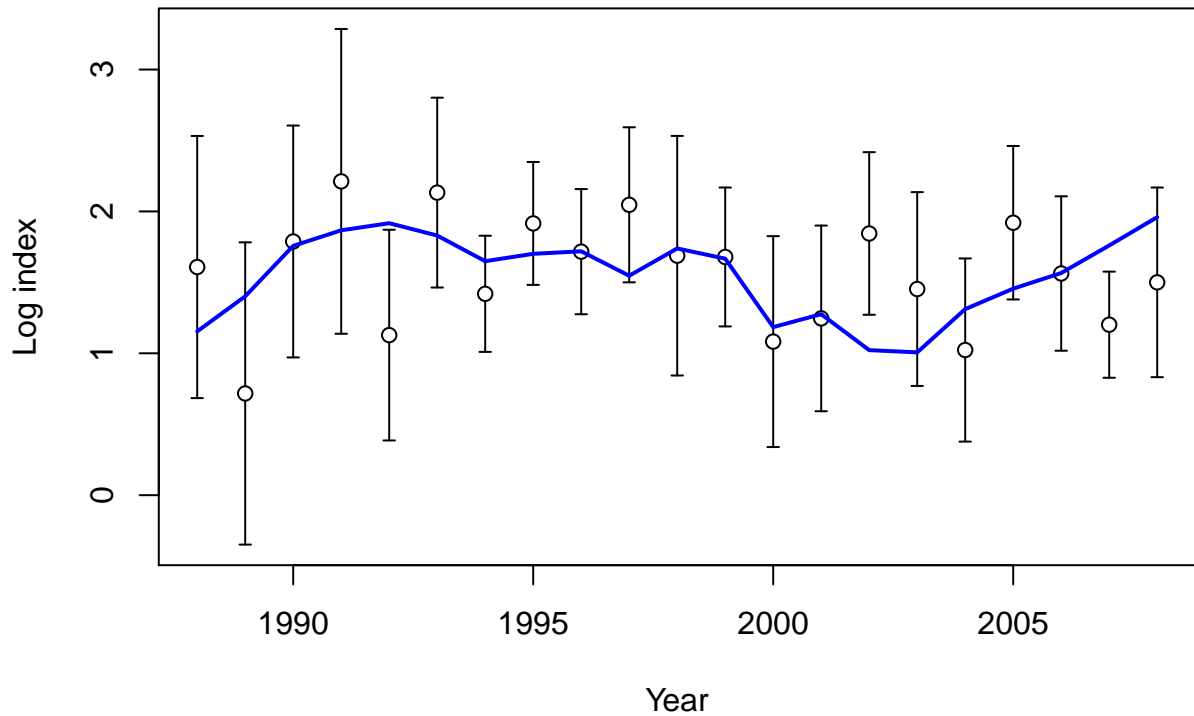


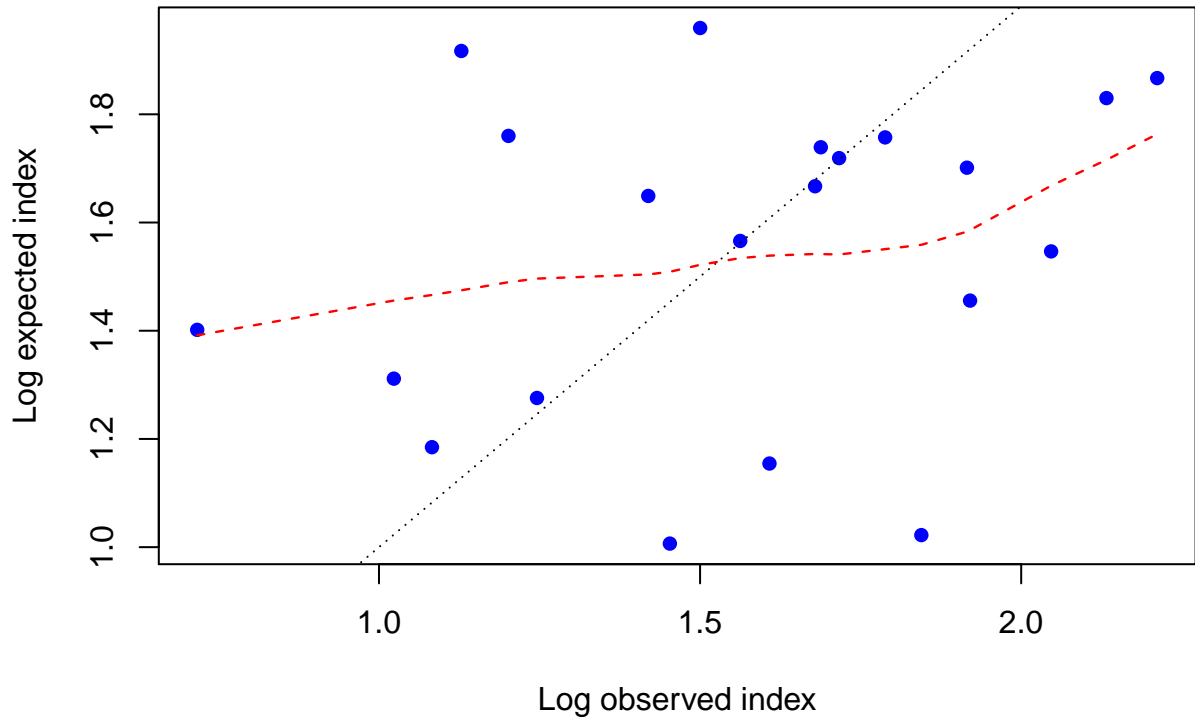
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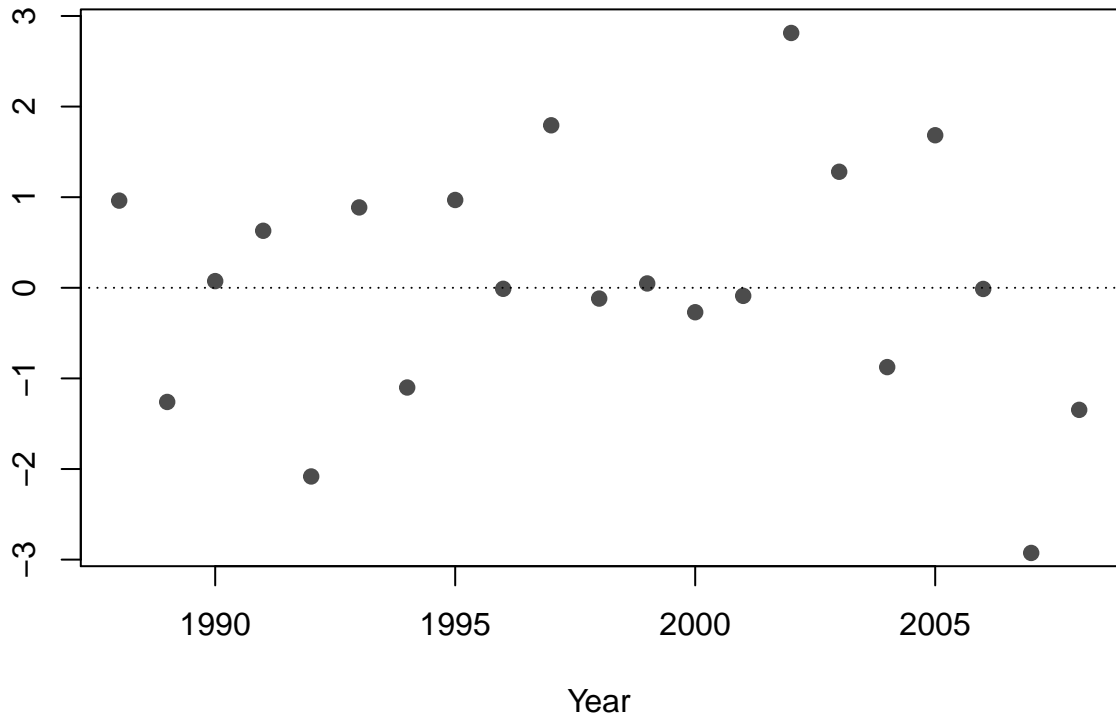


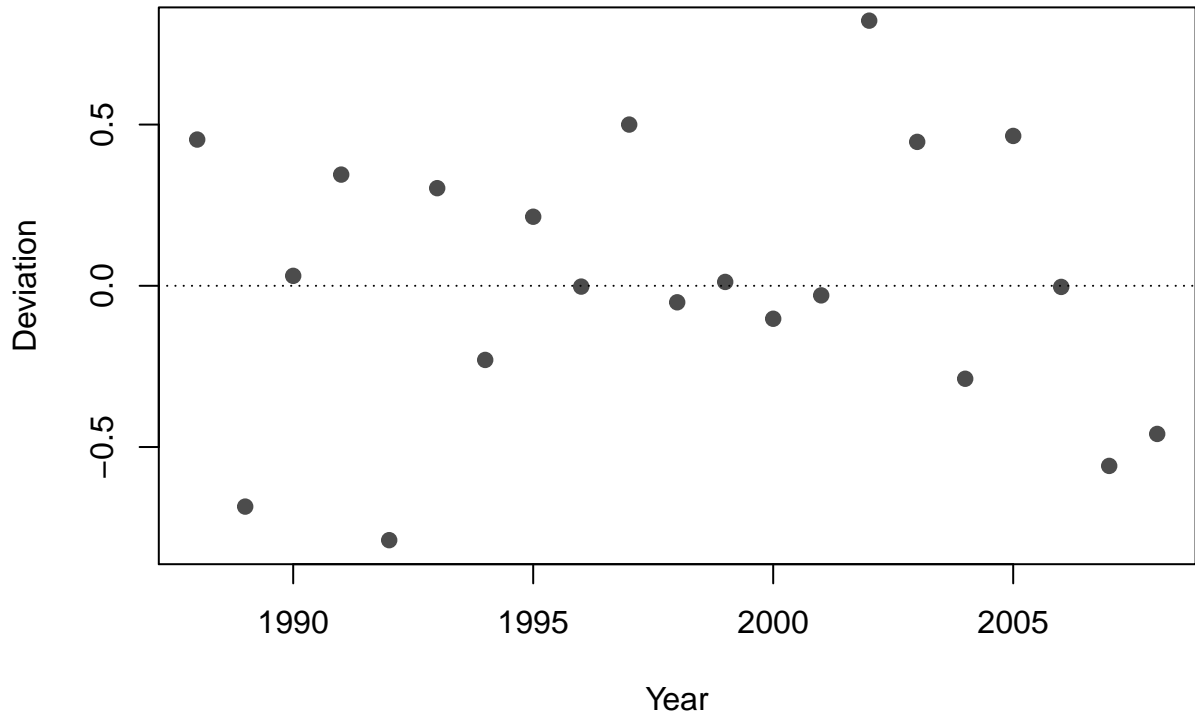




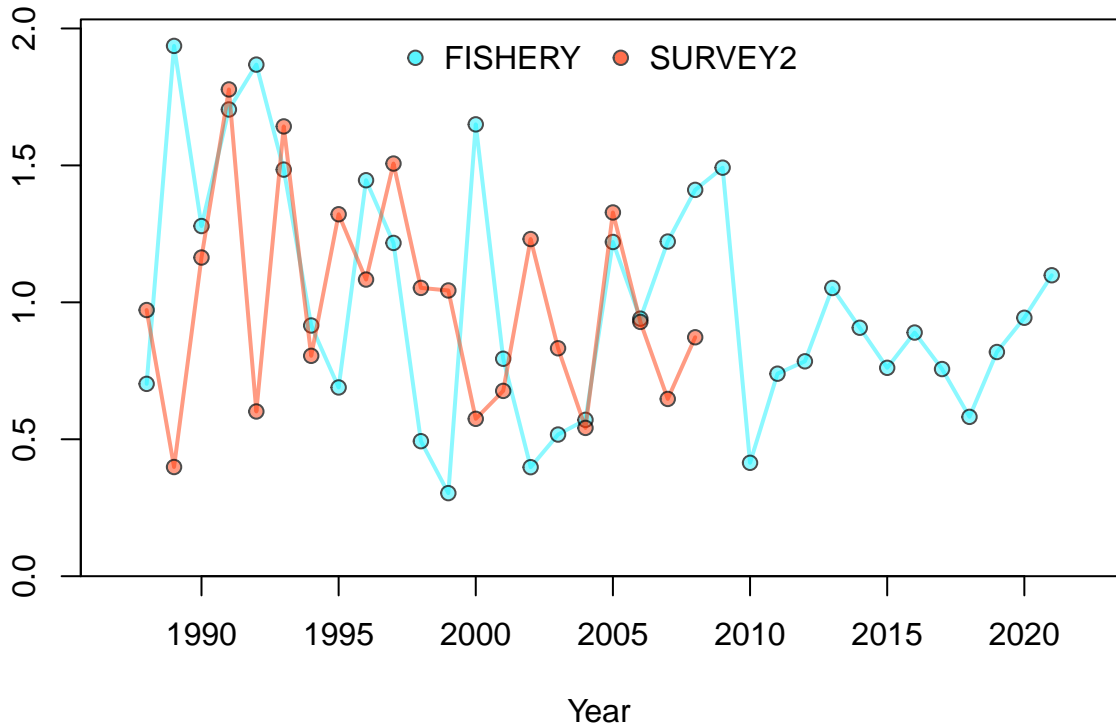


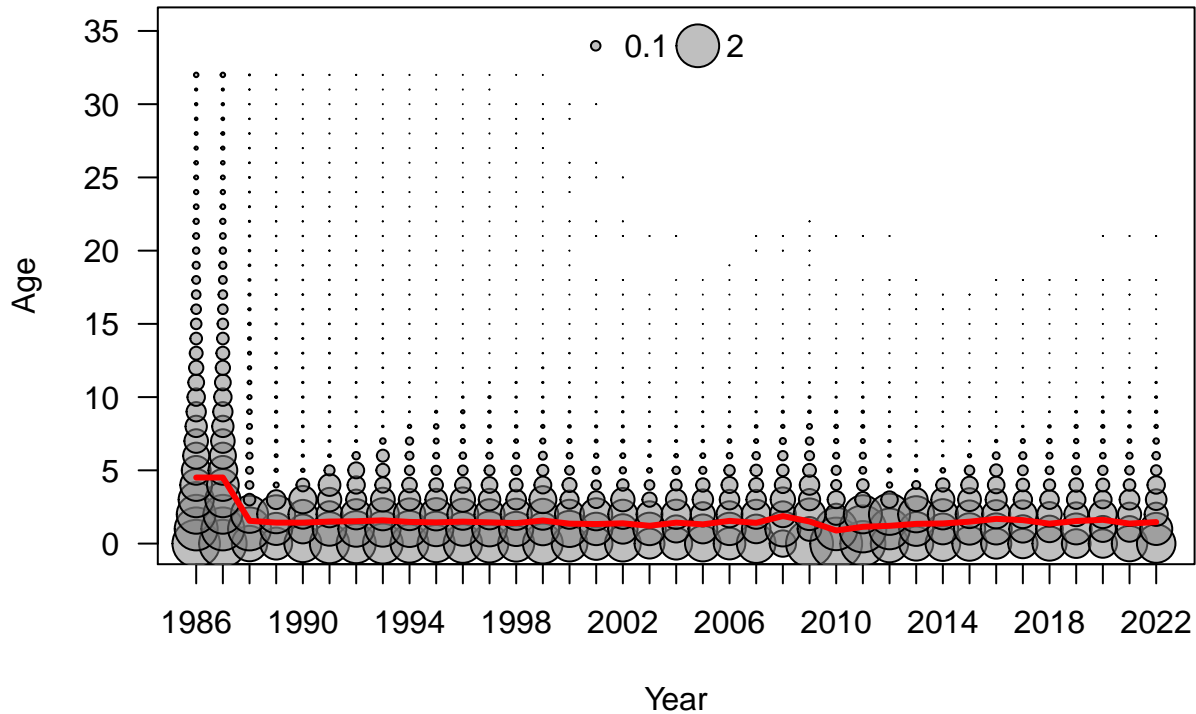
Residual

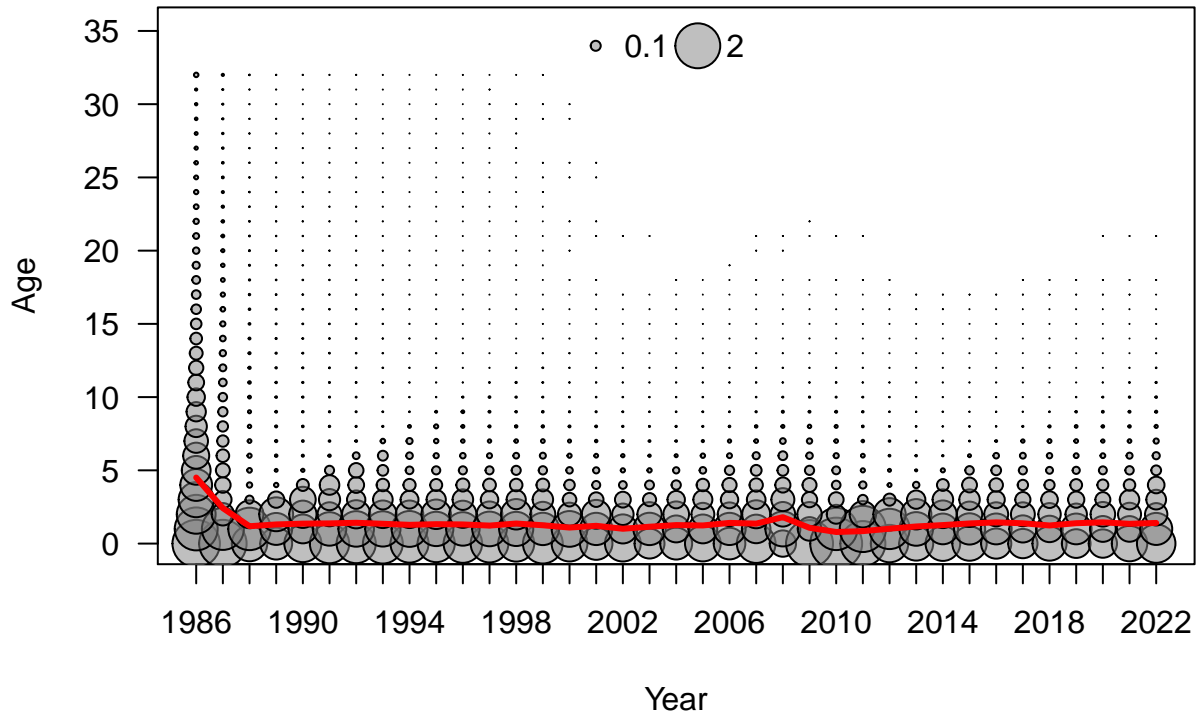


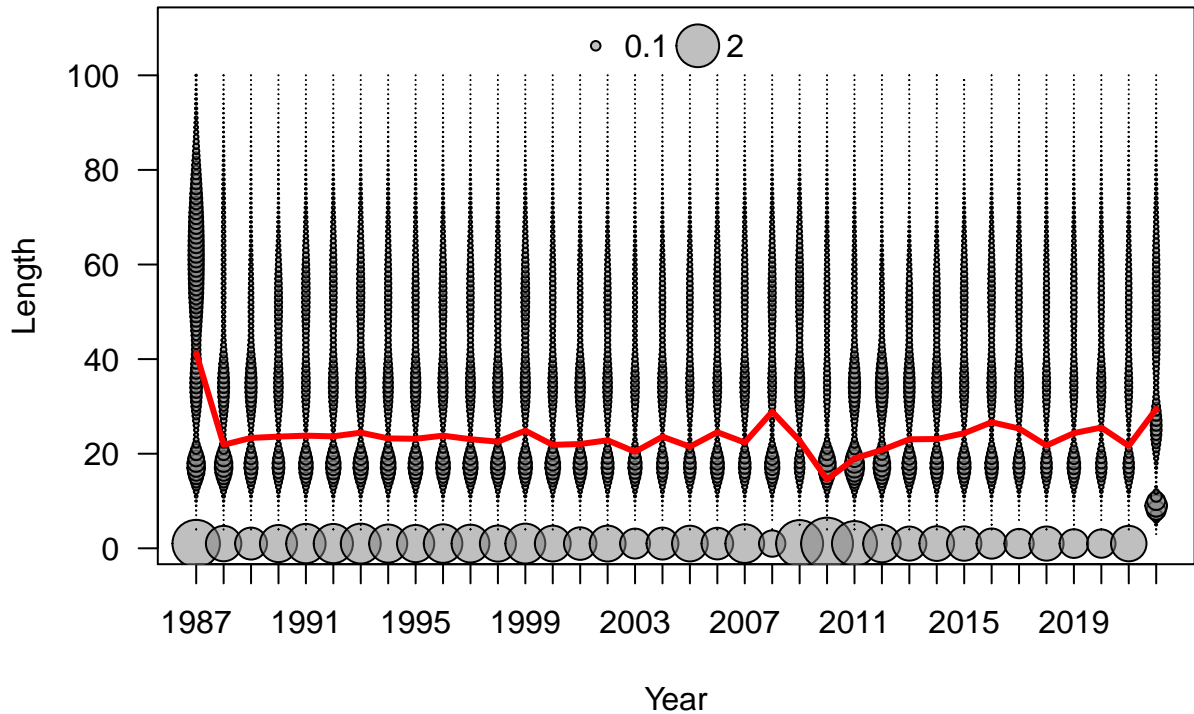


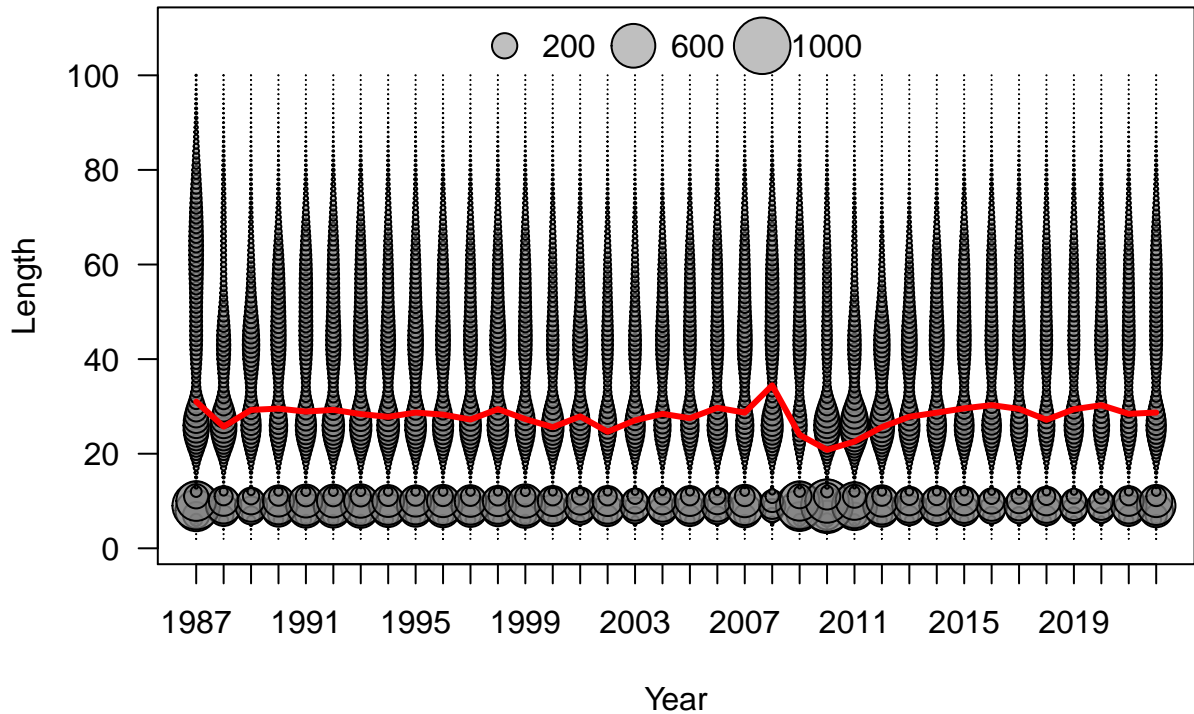
Standardized index

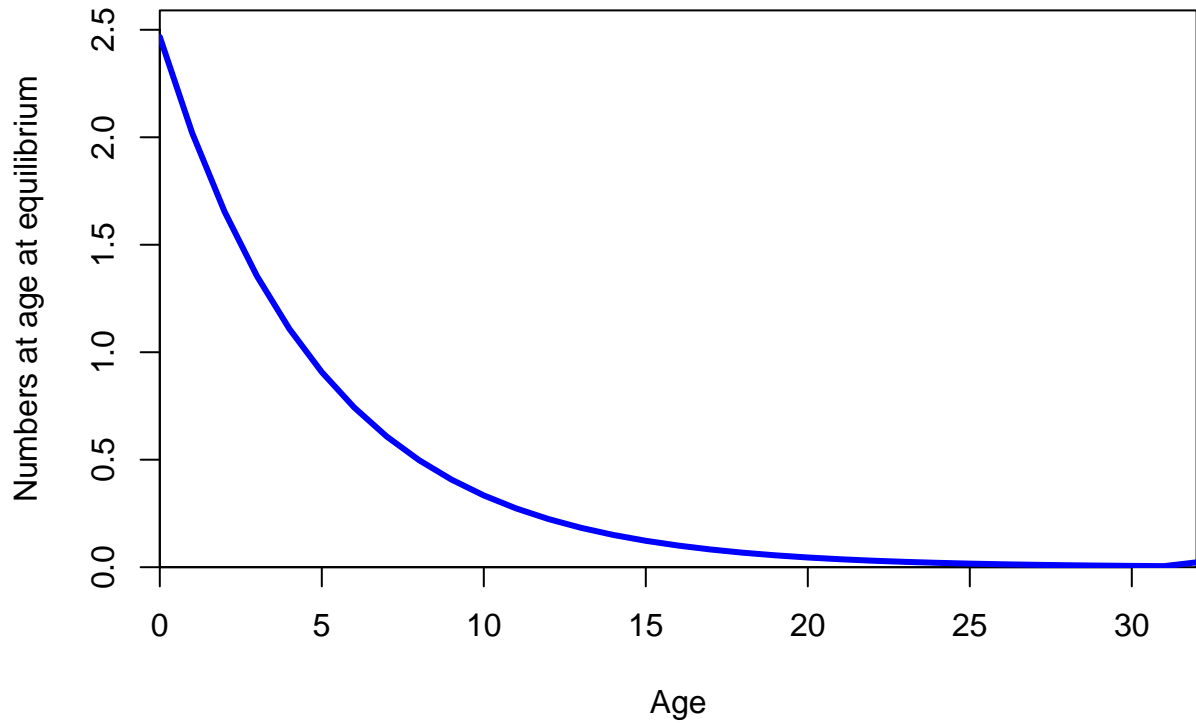


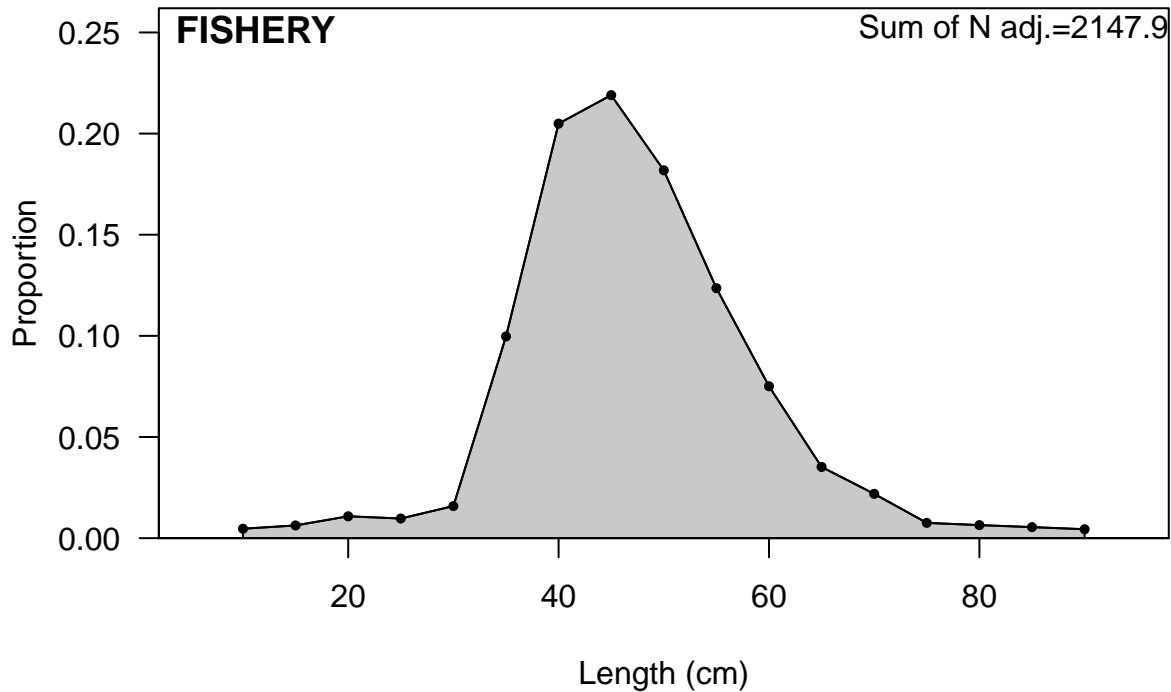






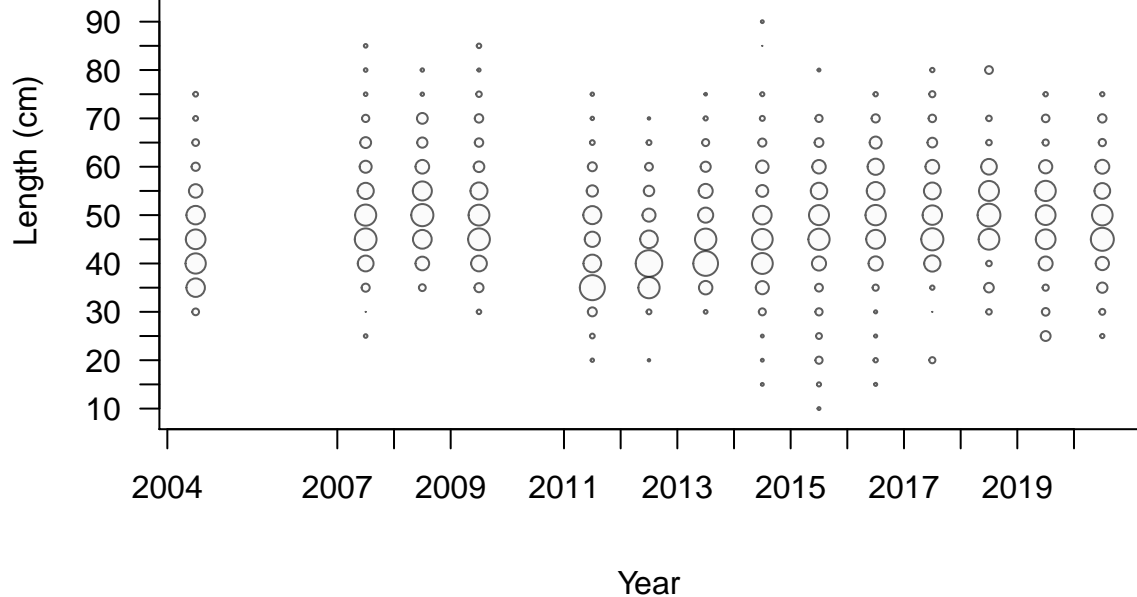




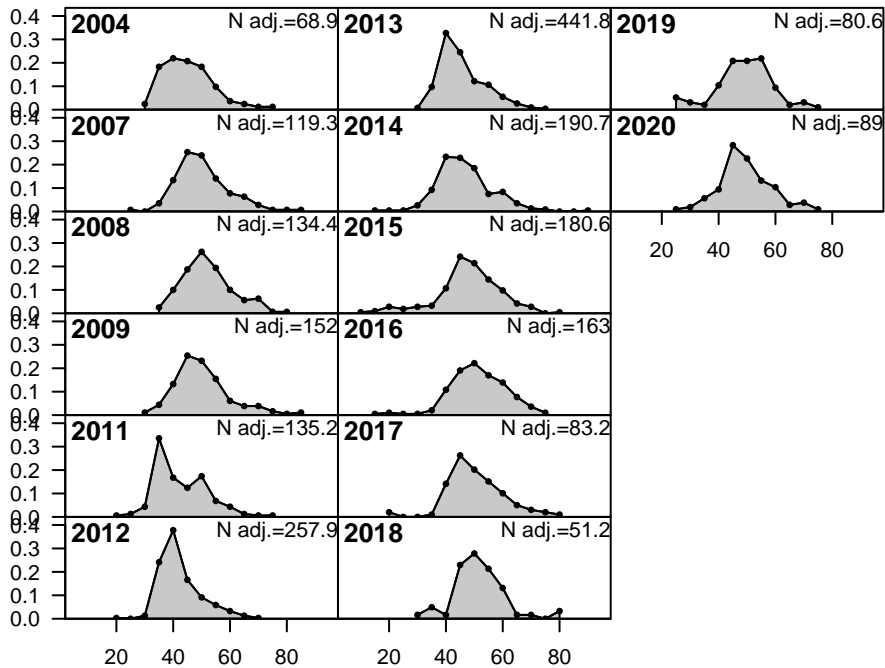


FISHERY

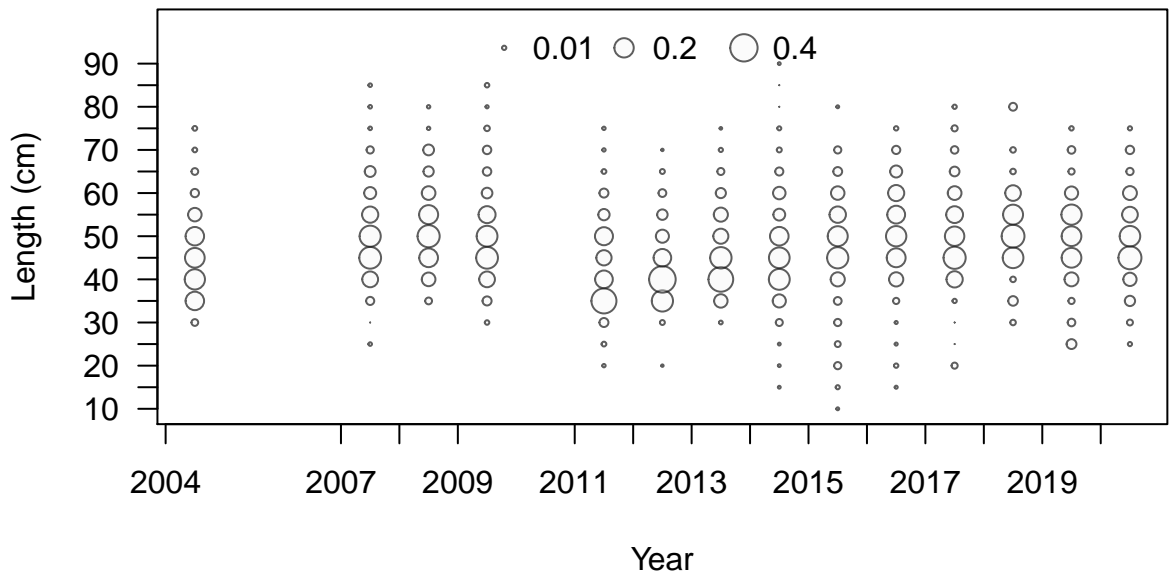
• 0.01 ○ 0.2 ○ 0.4



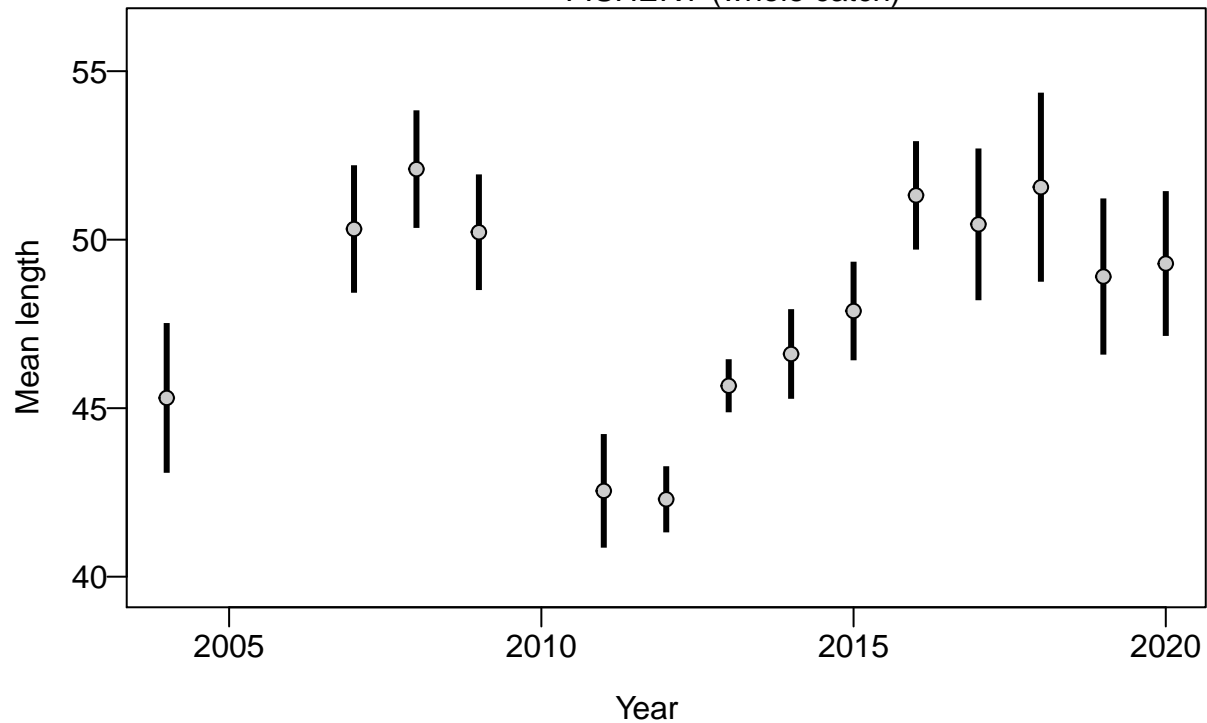
Proportion

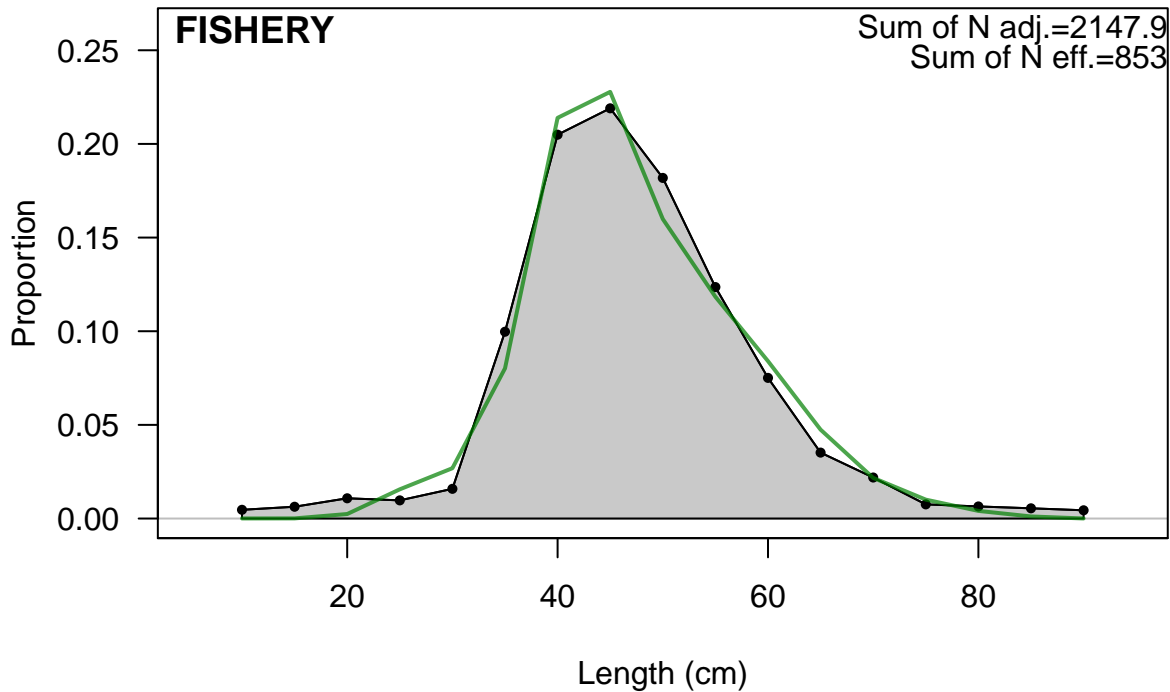


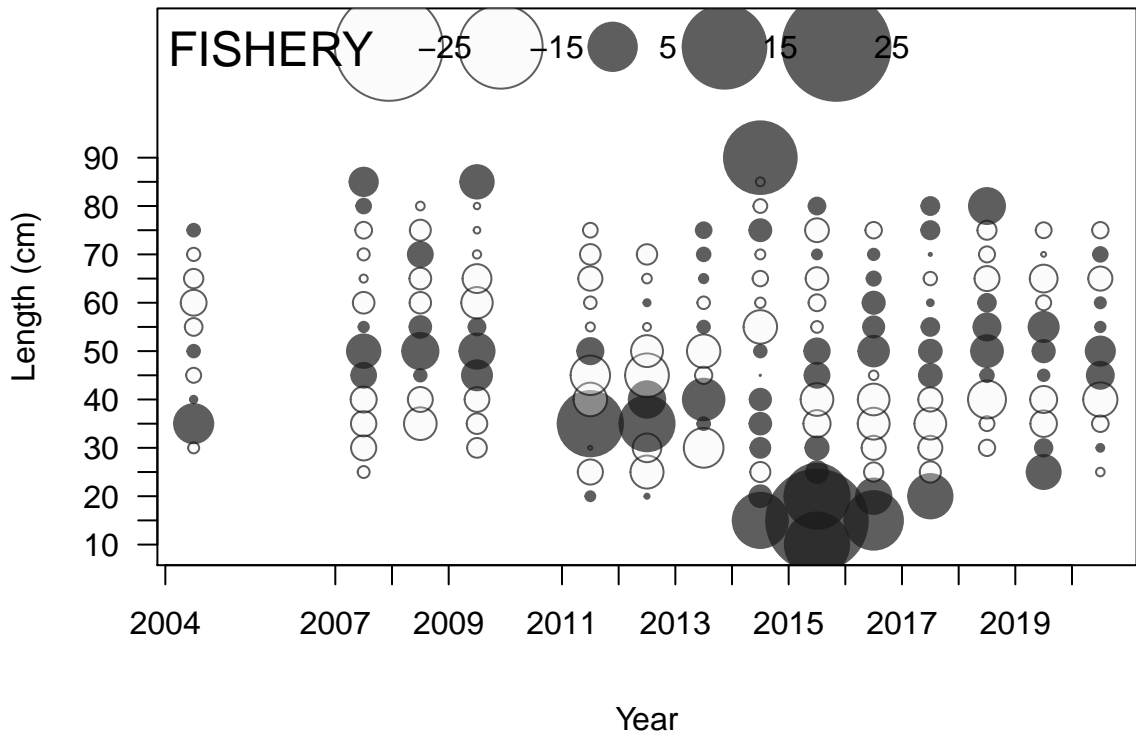
Length (cm)



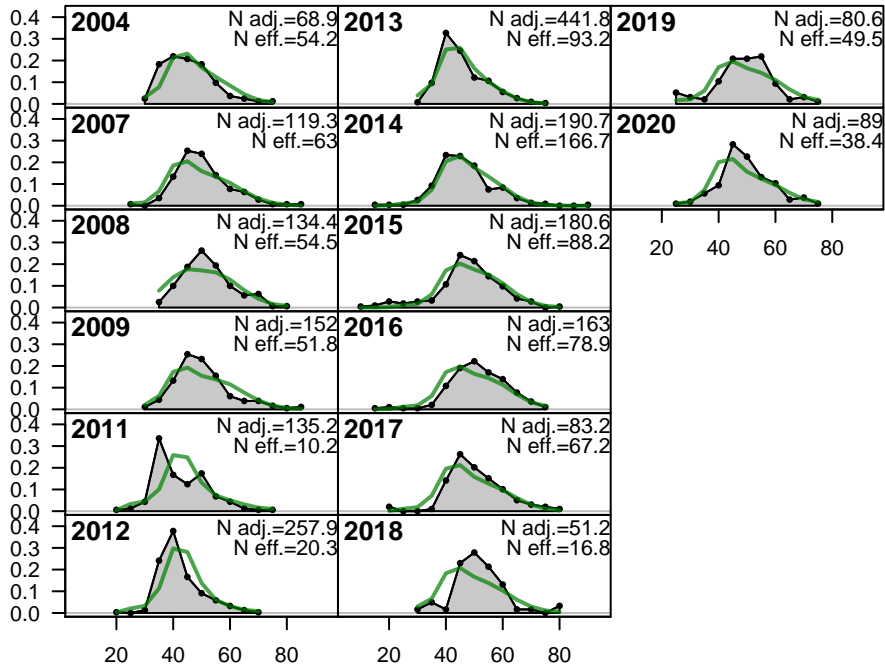
FISHERY (whole catch)



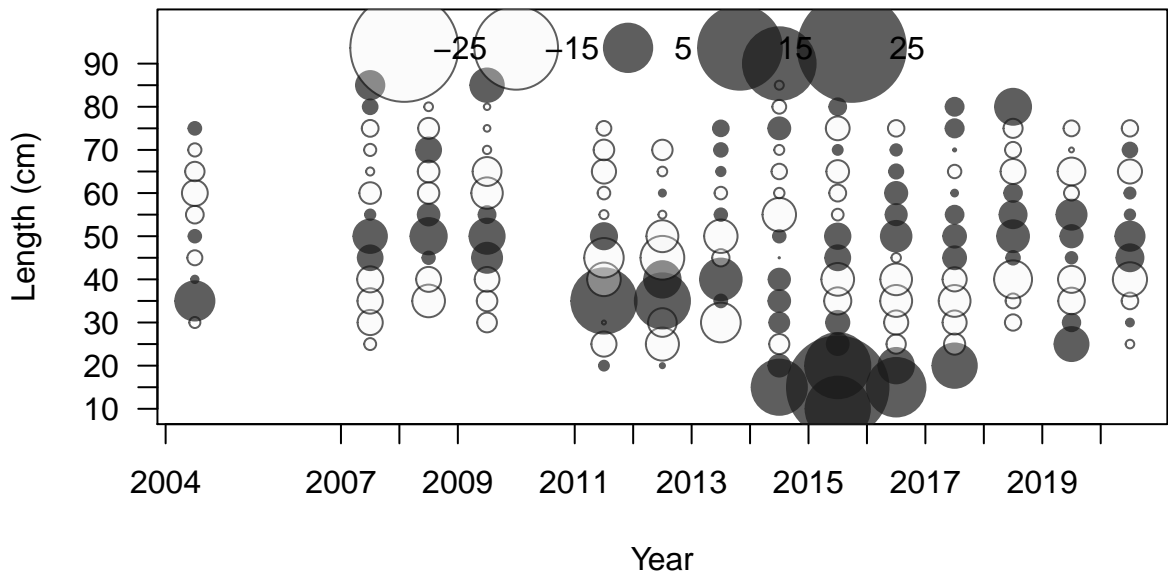




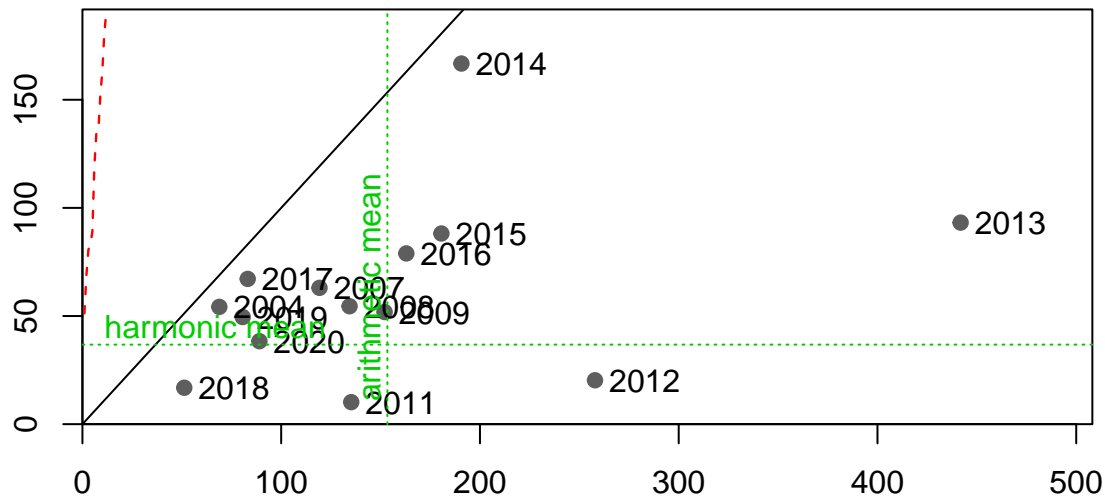
Proportion



Length (cm)

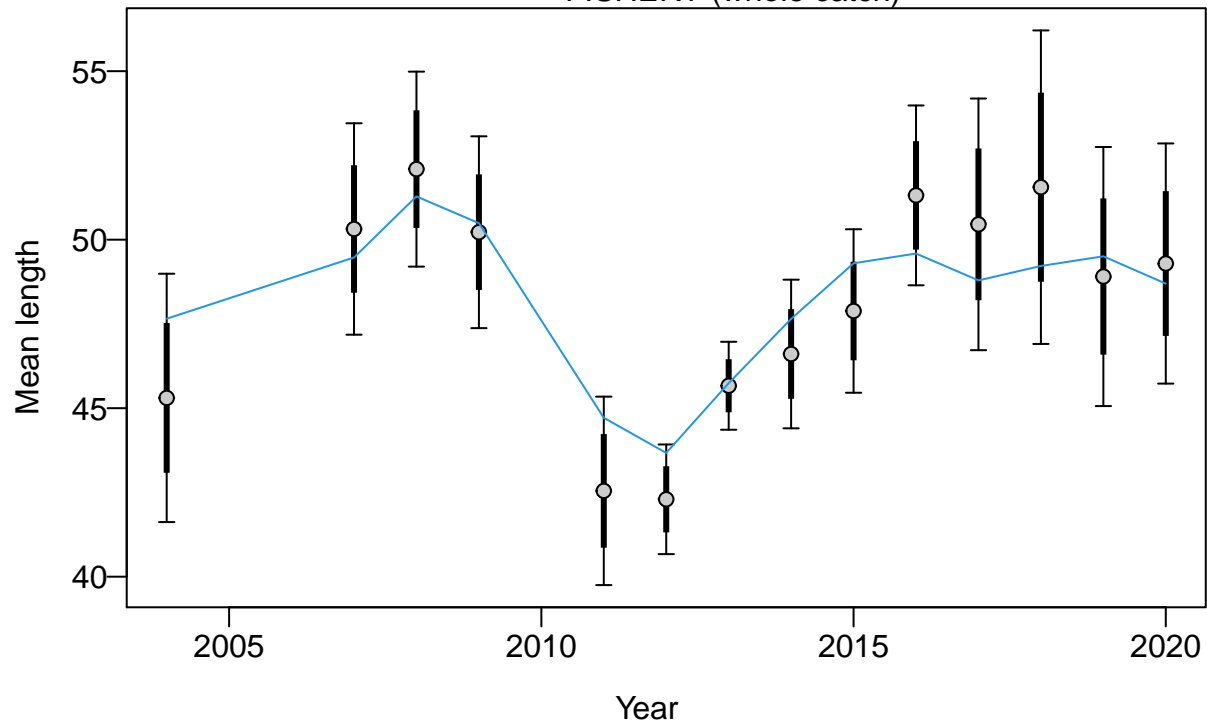


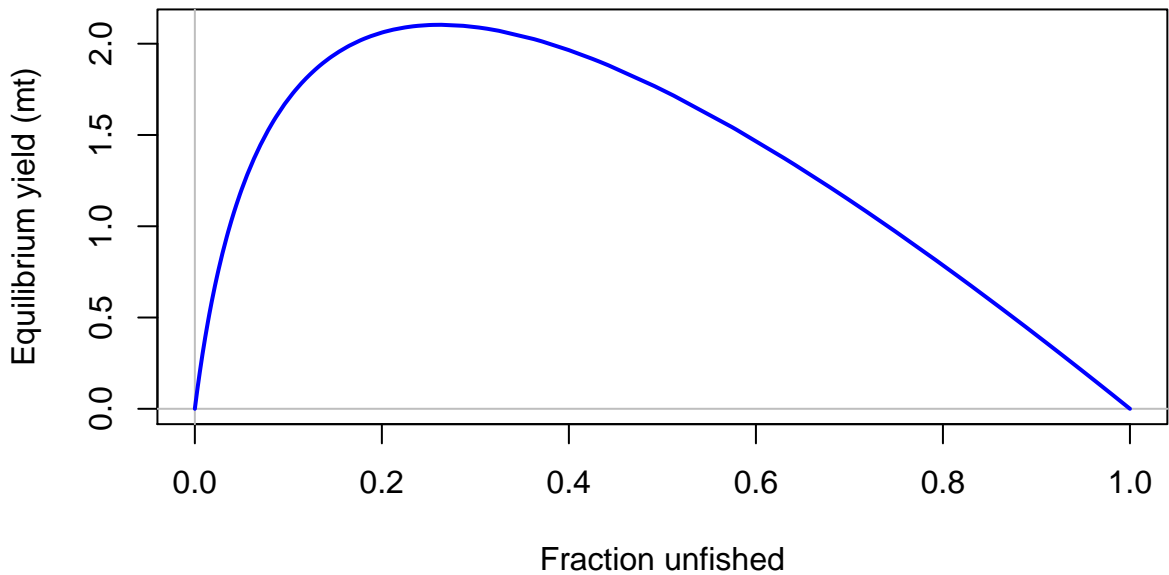
Effective sample size

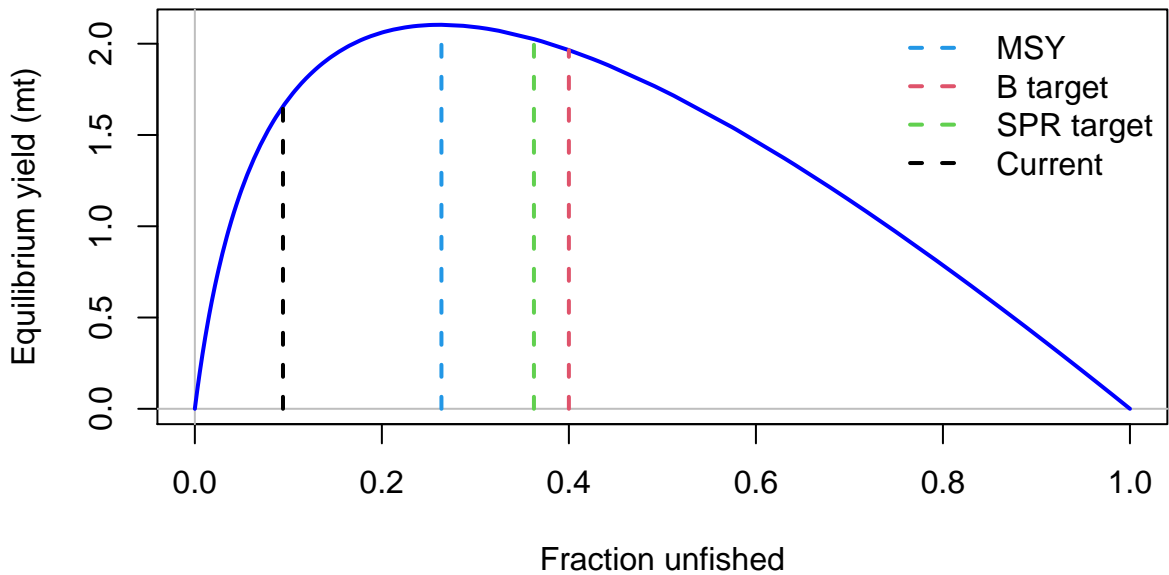


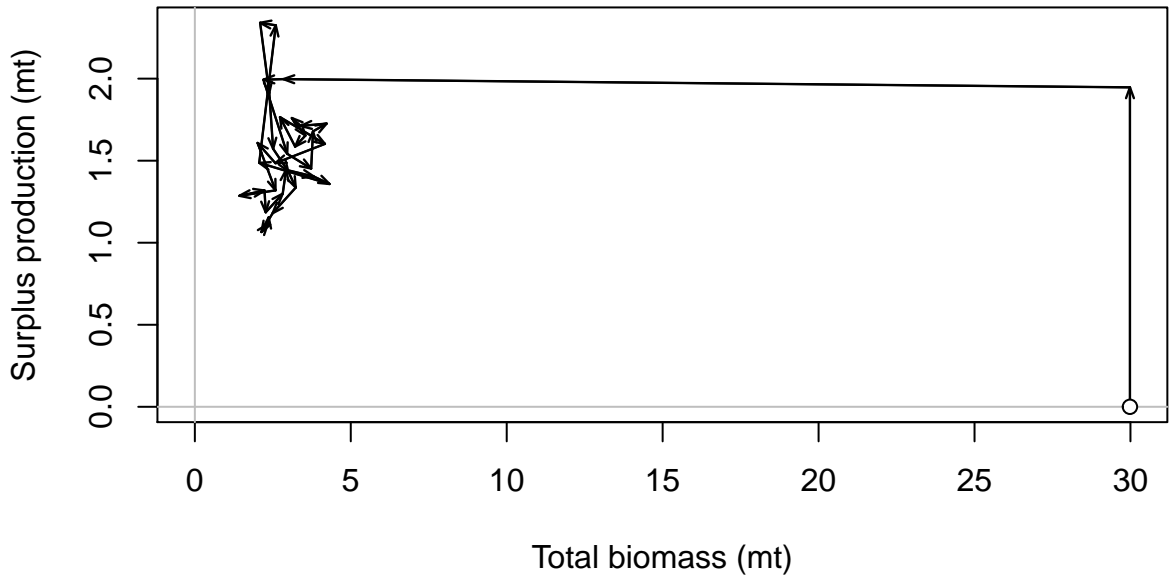
Observed sample size

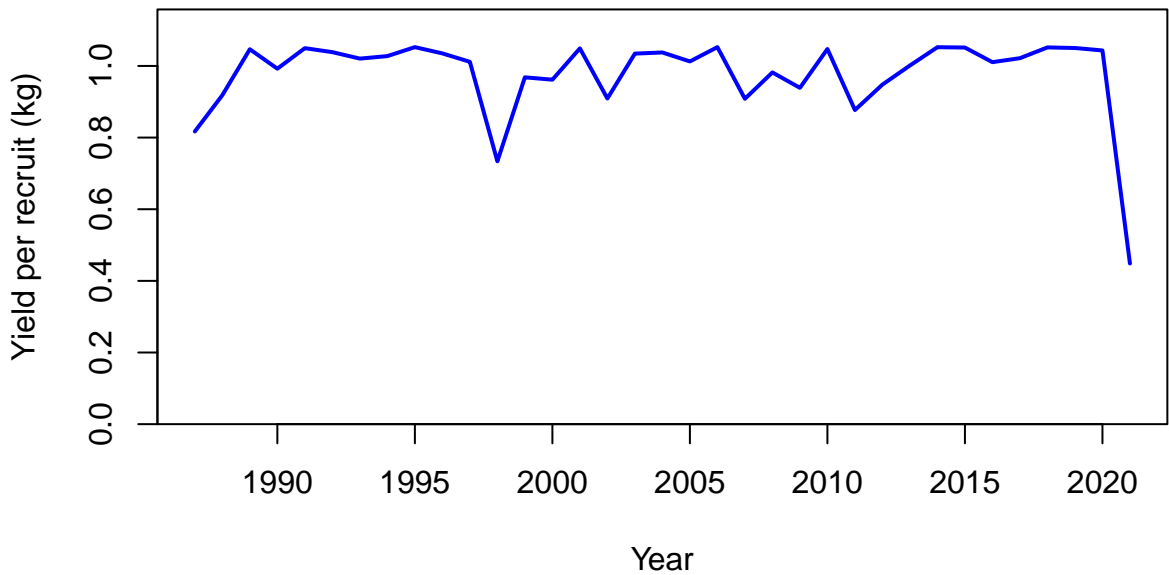
FISHERY (whole catch)

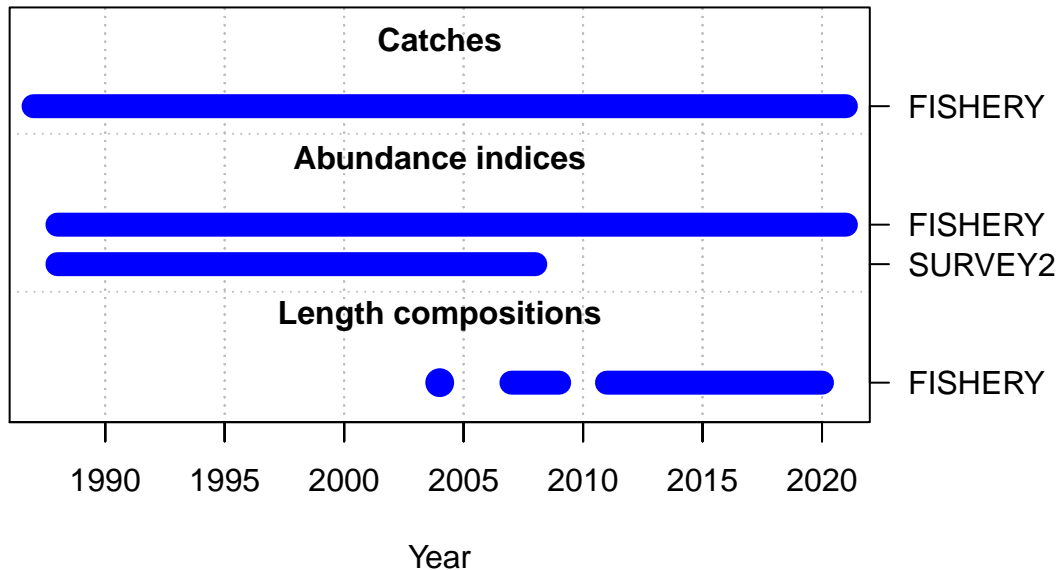


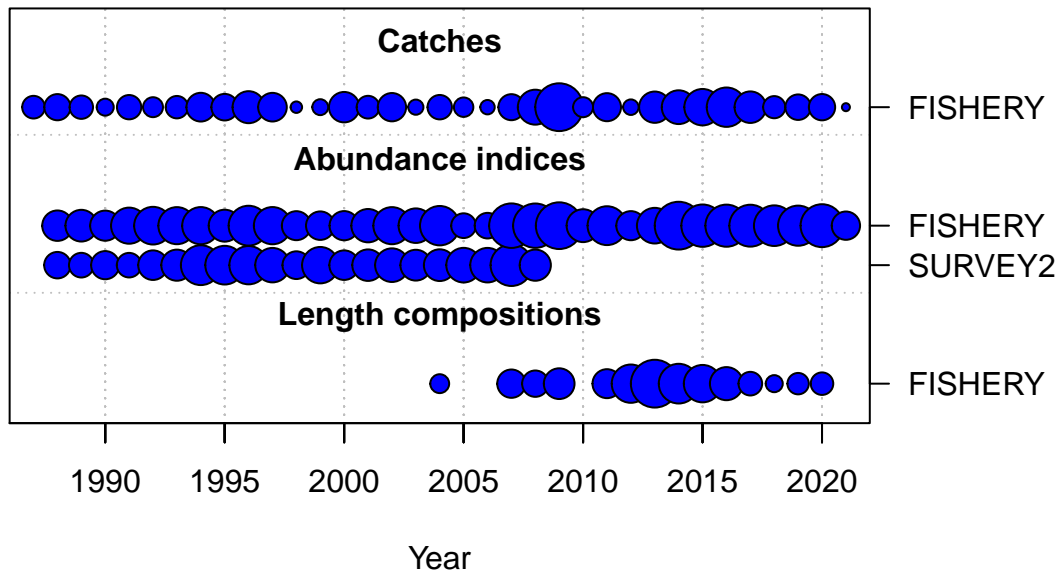




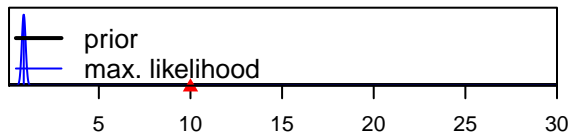




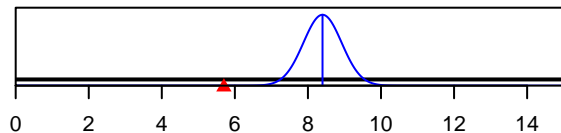




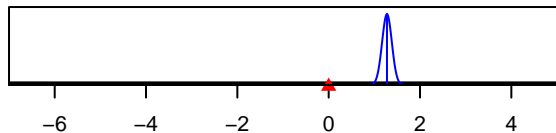
SR_LN(R0)



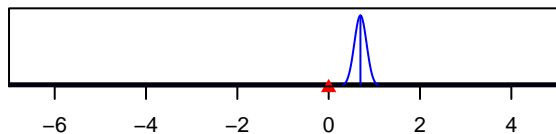
Size_95%width_FISHERY(1)



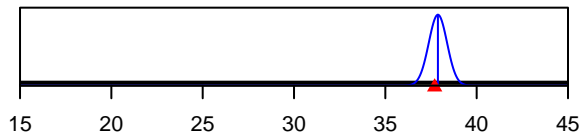
LnQ_base_FISHERY(1)



LnQ_base_SURVEY2(2)



Size_inflection_FISHERY(1)



Parameter value