

Plots created using the 'r4ss' package in R

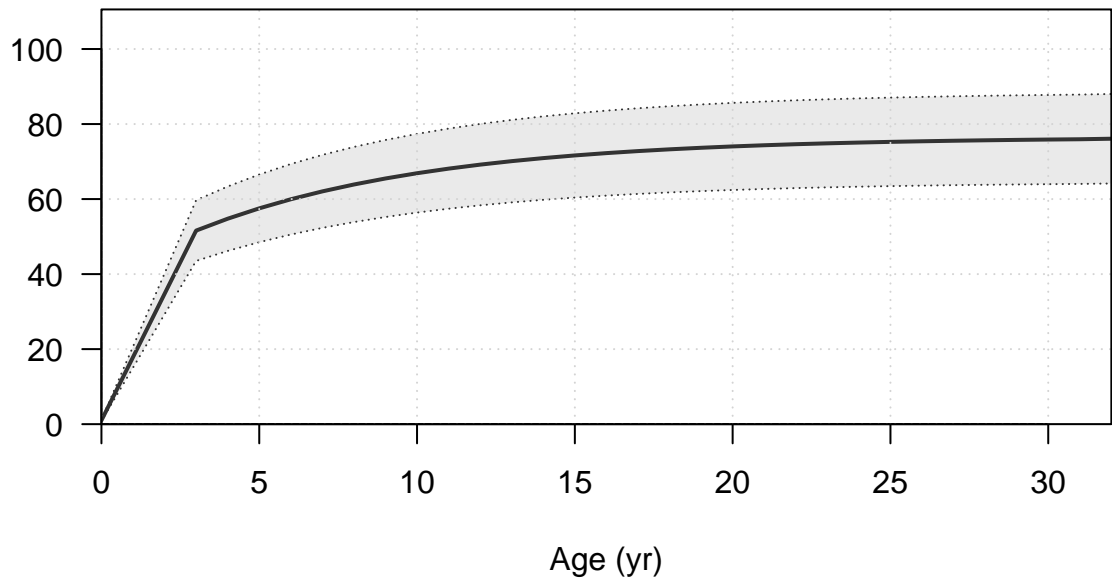
Stock Synthesis version: 3.30.19.0

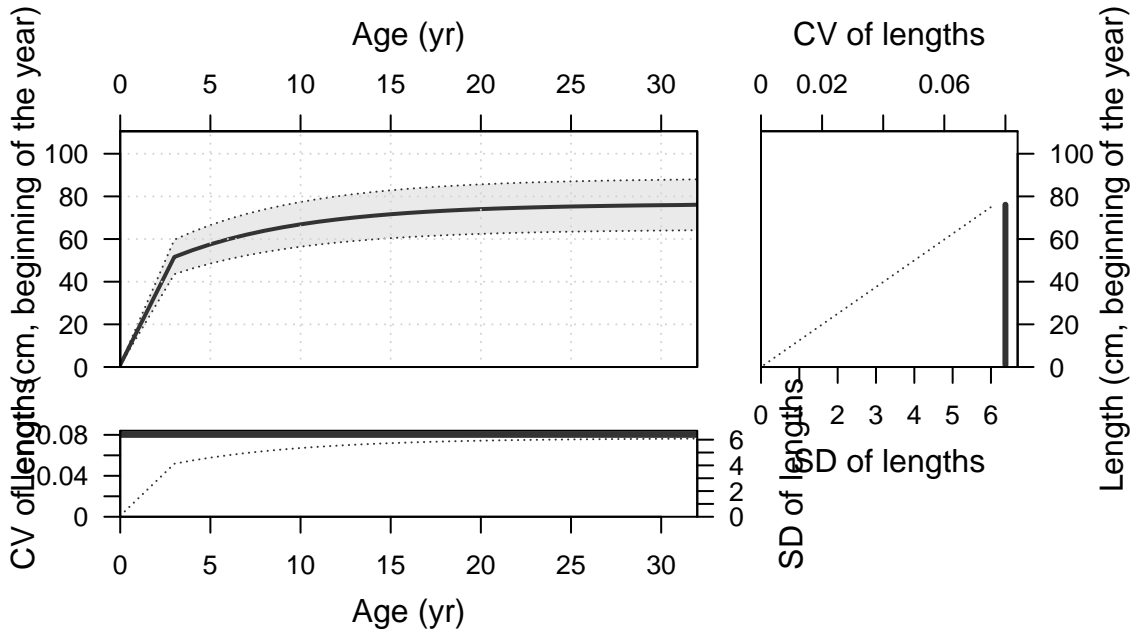
StartTime: Wed Jul 27 16:38:47 2022

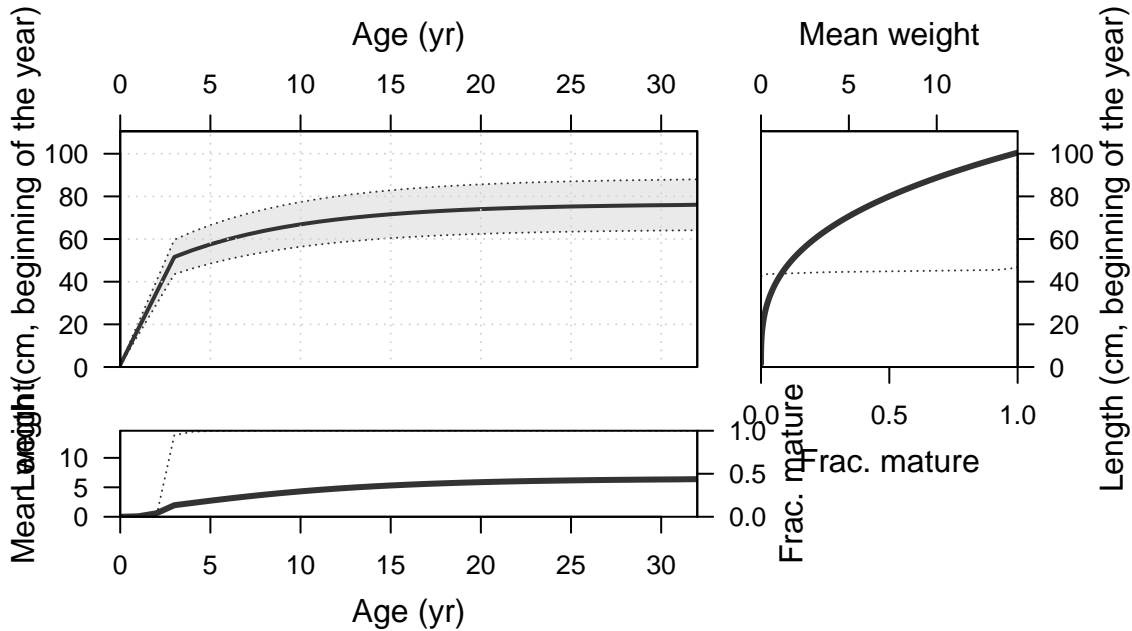
Data_File: data.ss

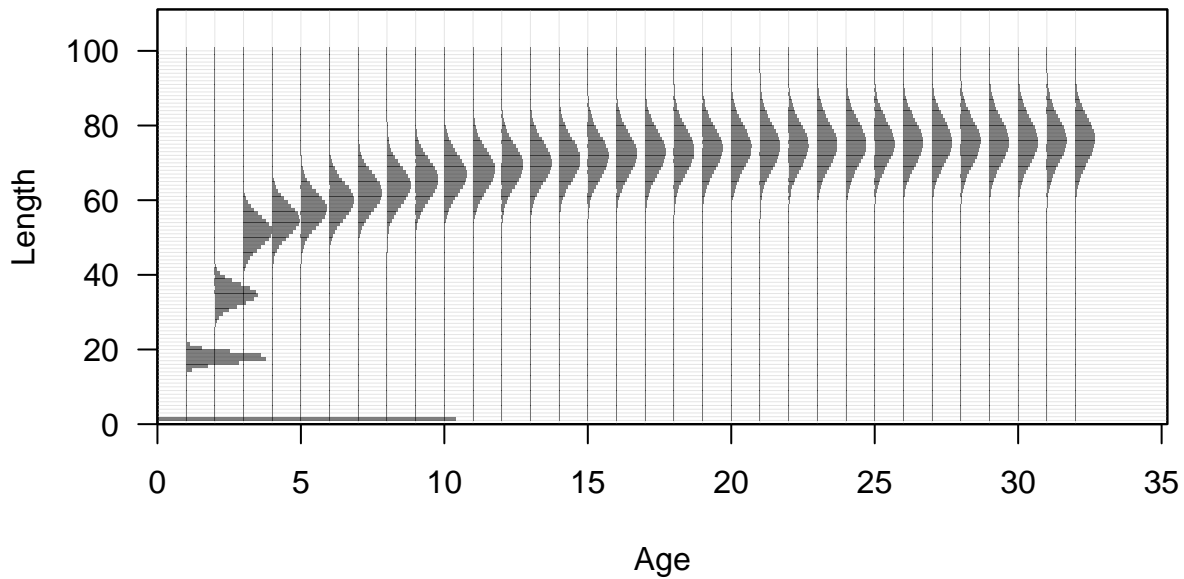
Control_File: control.ss

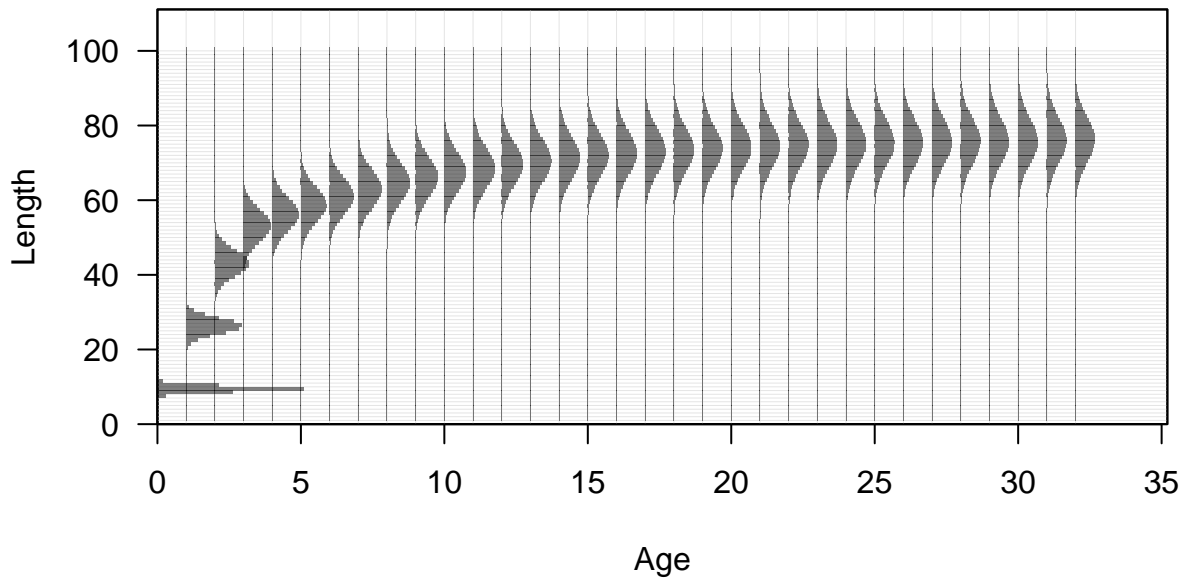
Length (cm, beginning of the year)



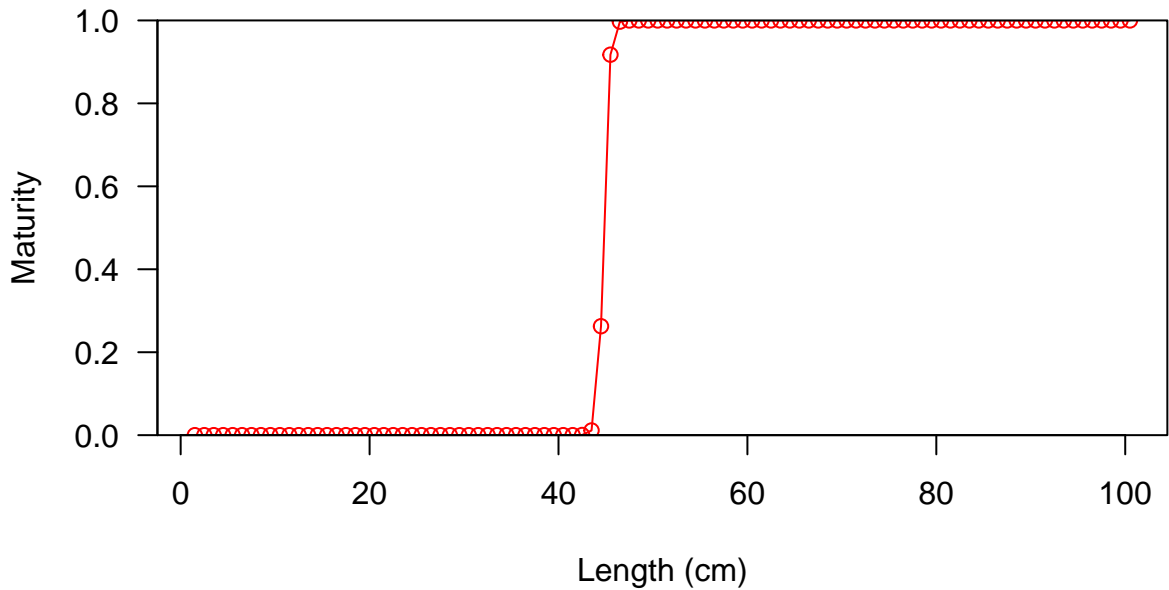














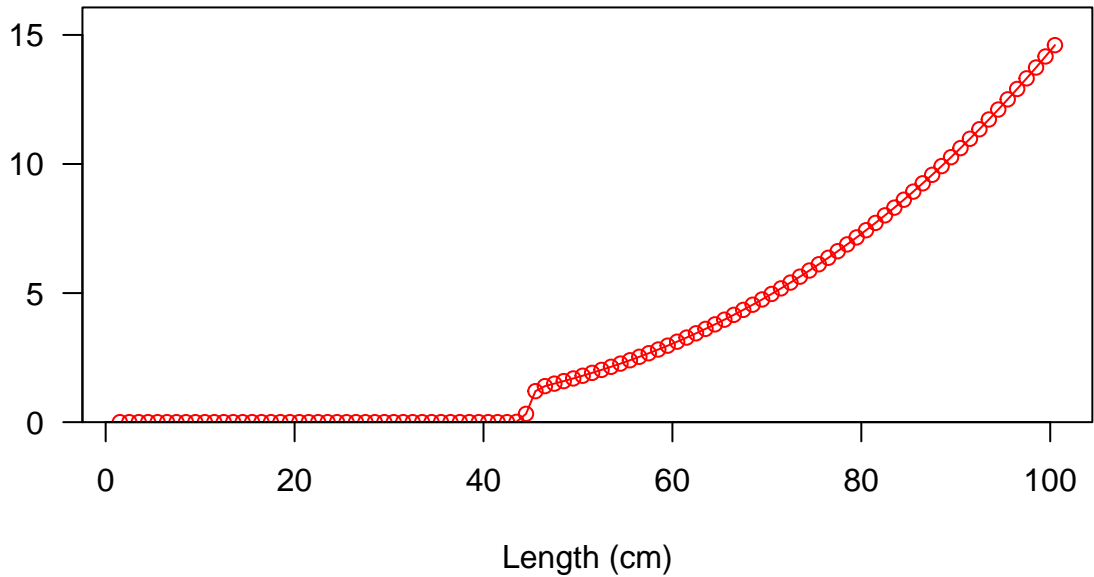
Fecundity



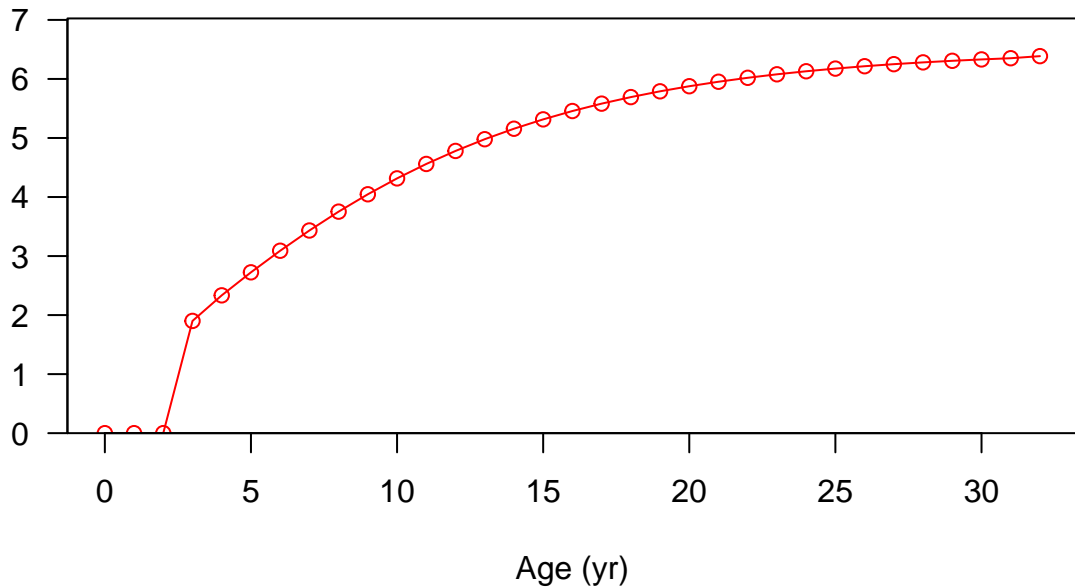
Fecundity



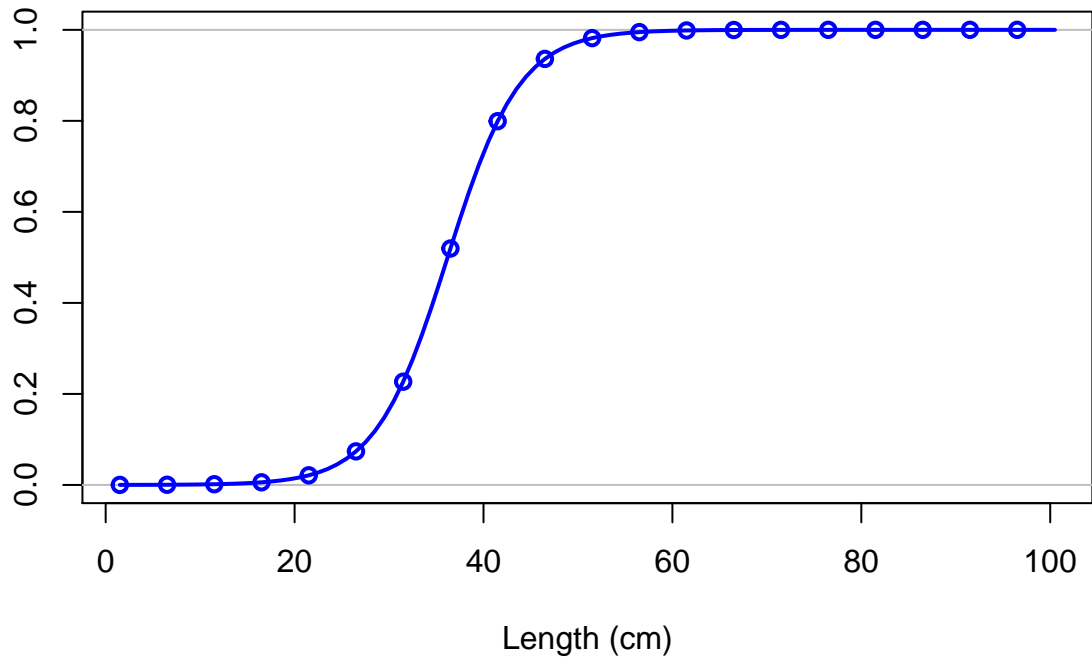
Spawning output



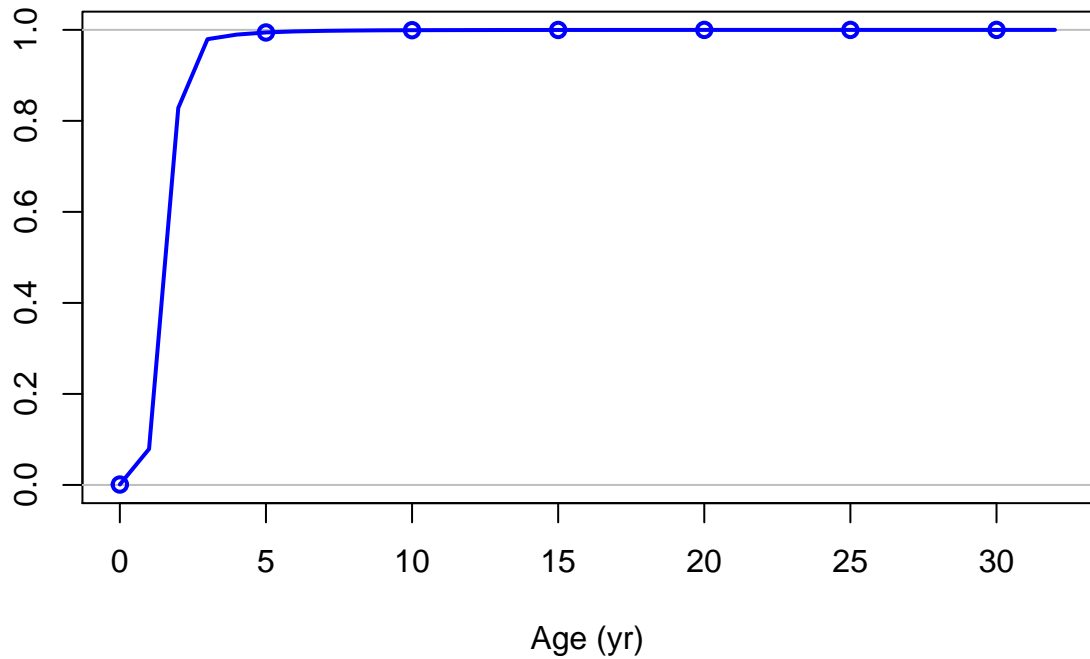
Spawning output



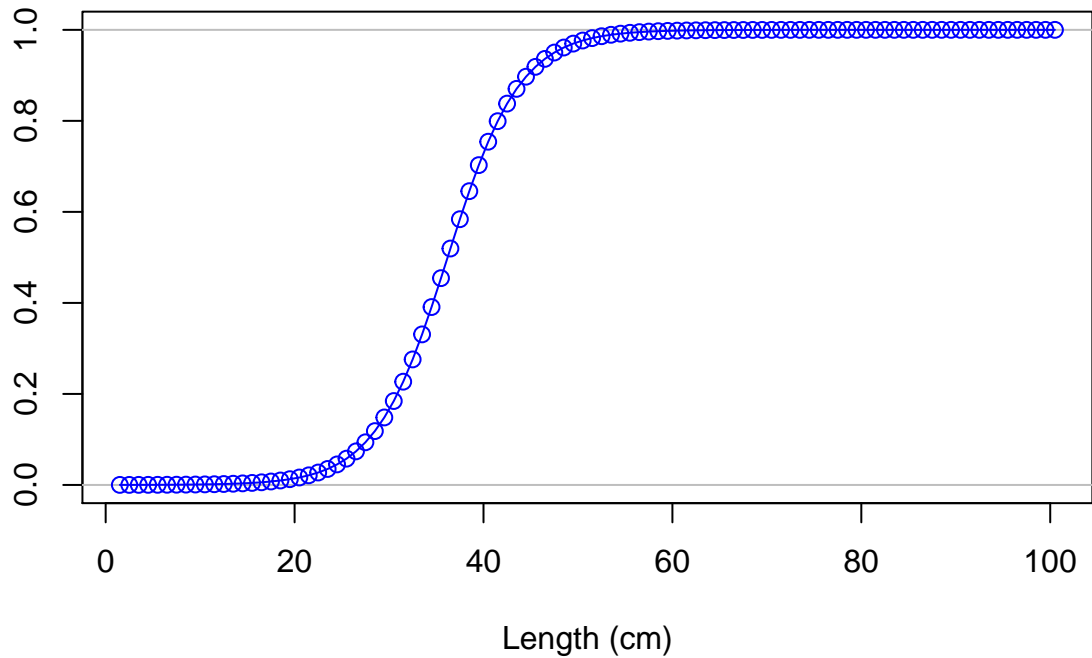
Selectivity

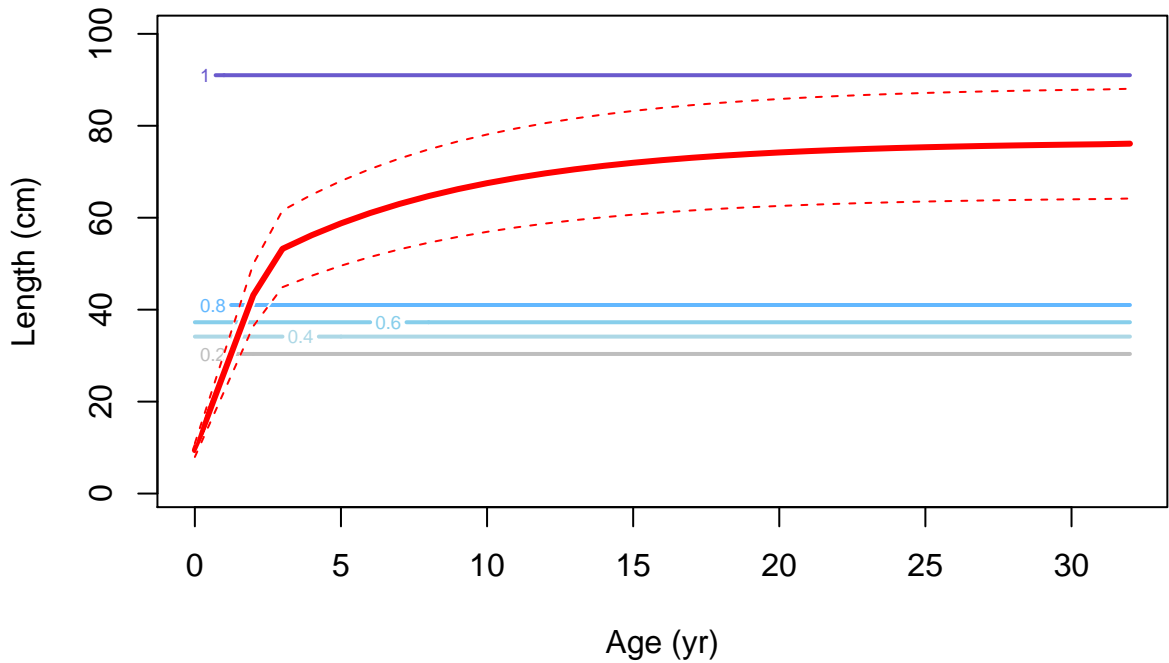


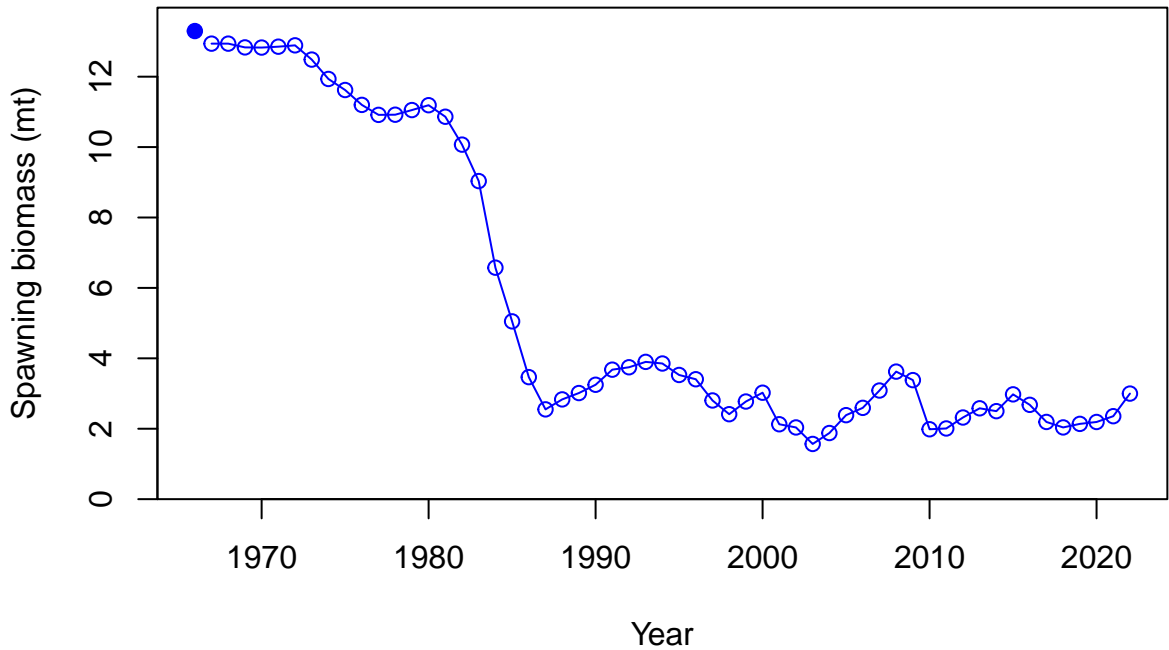
Selectivity



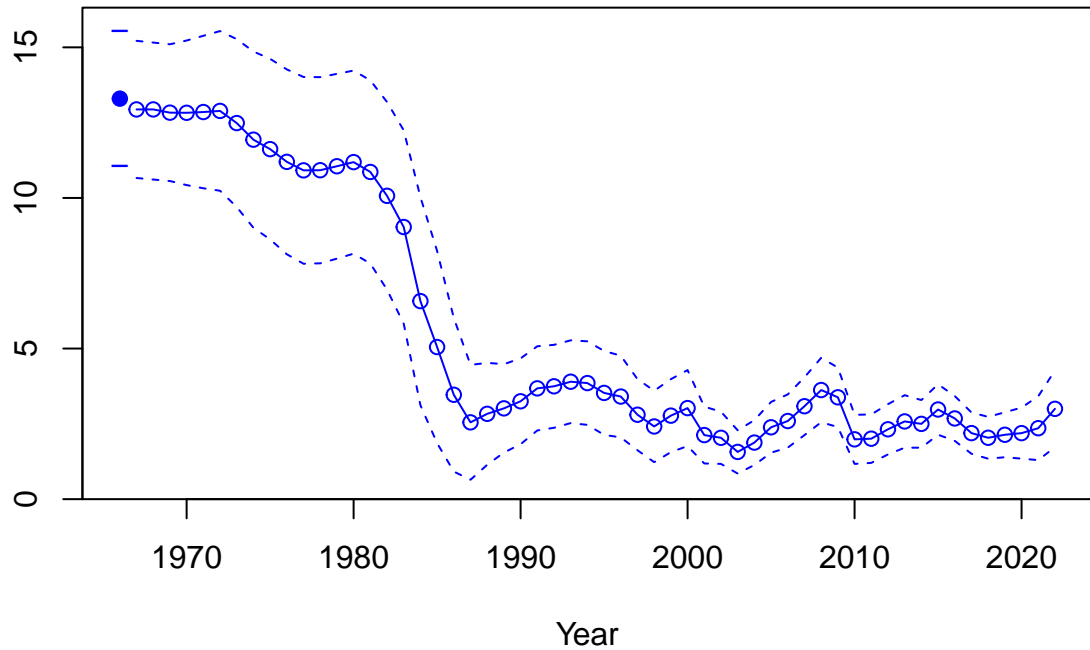
Selectivity



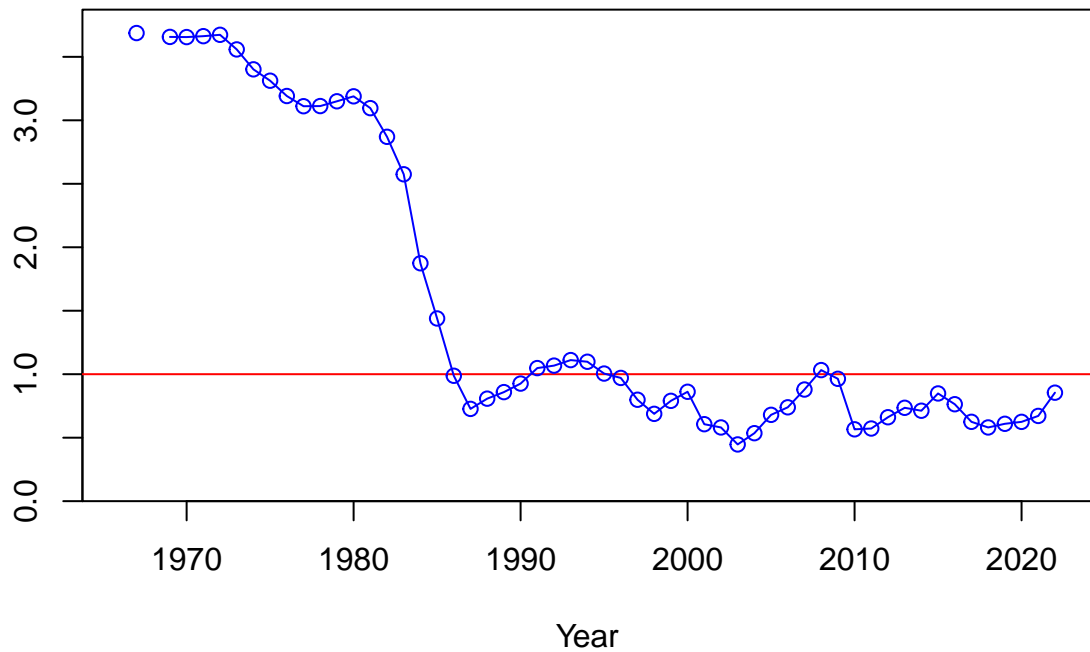




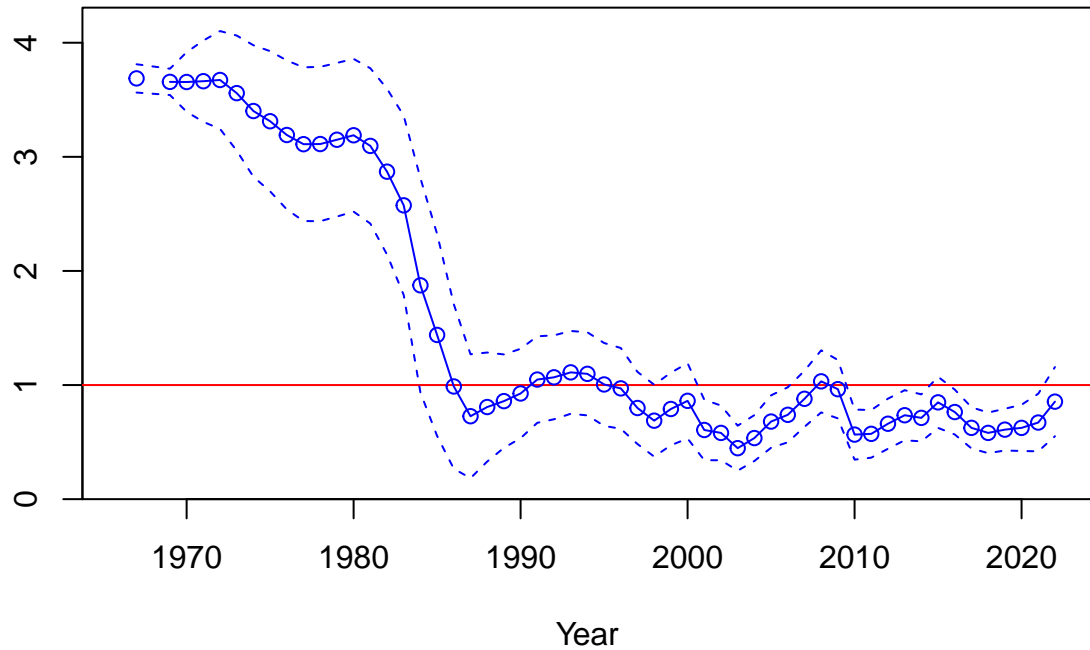
Spawning biomass (mt)

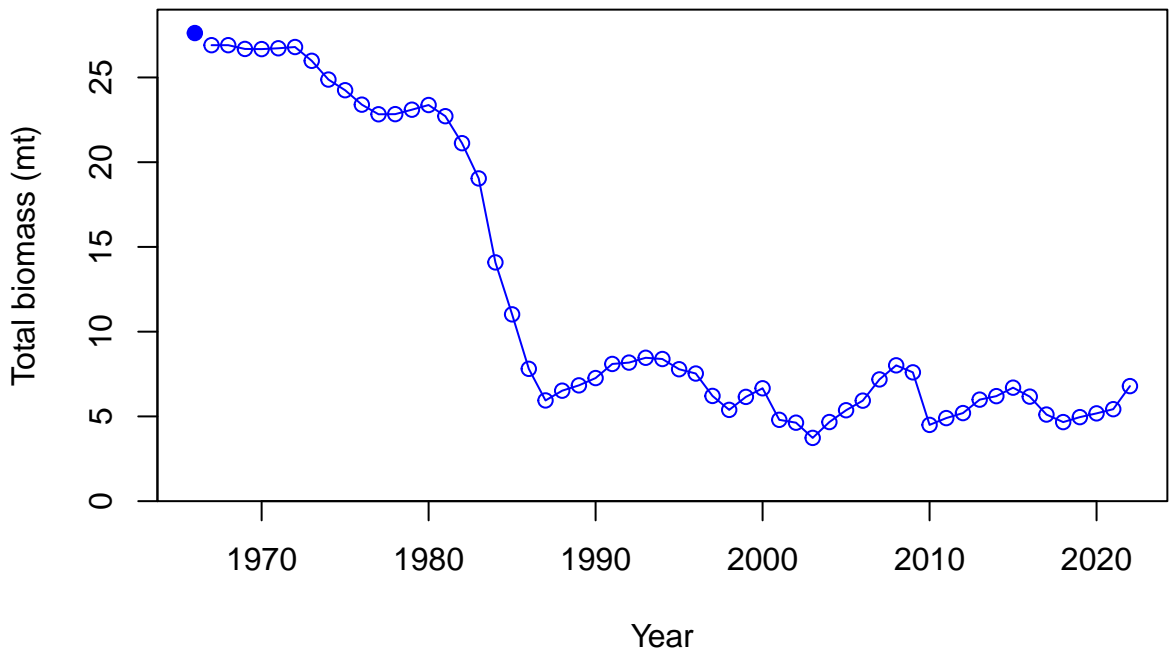


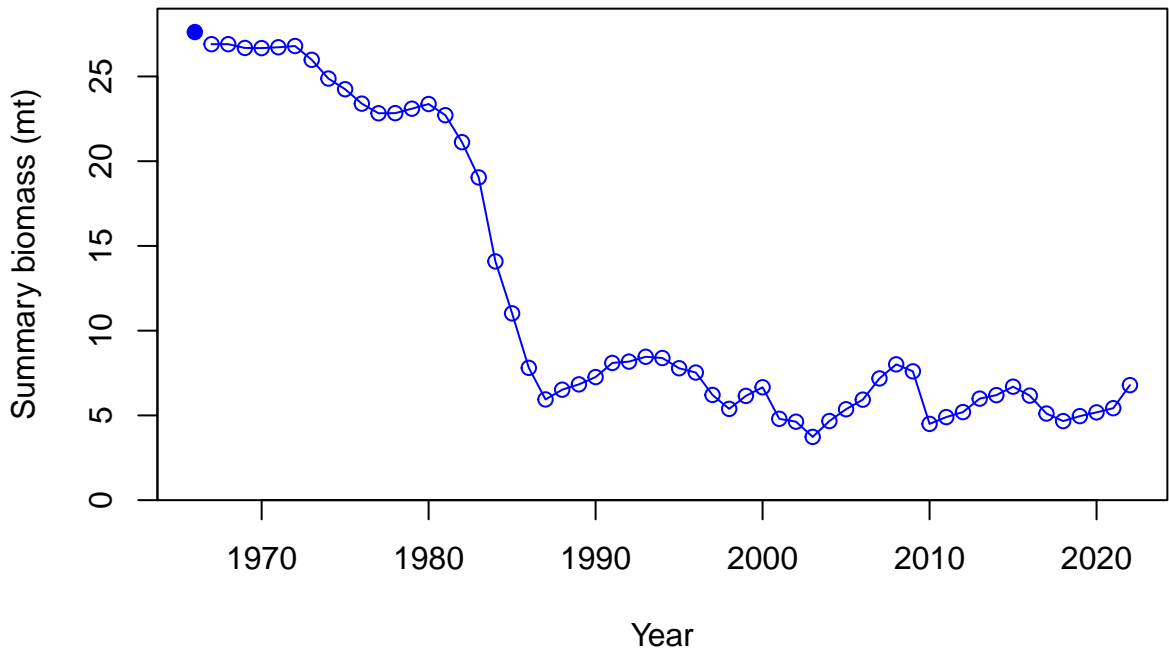
Relative spawning biomass: B/B_{MSY}



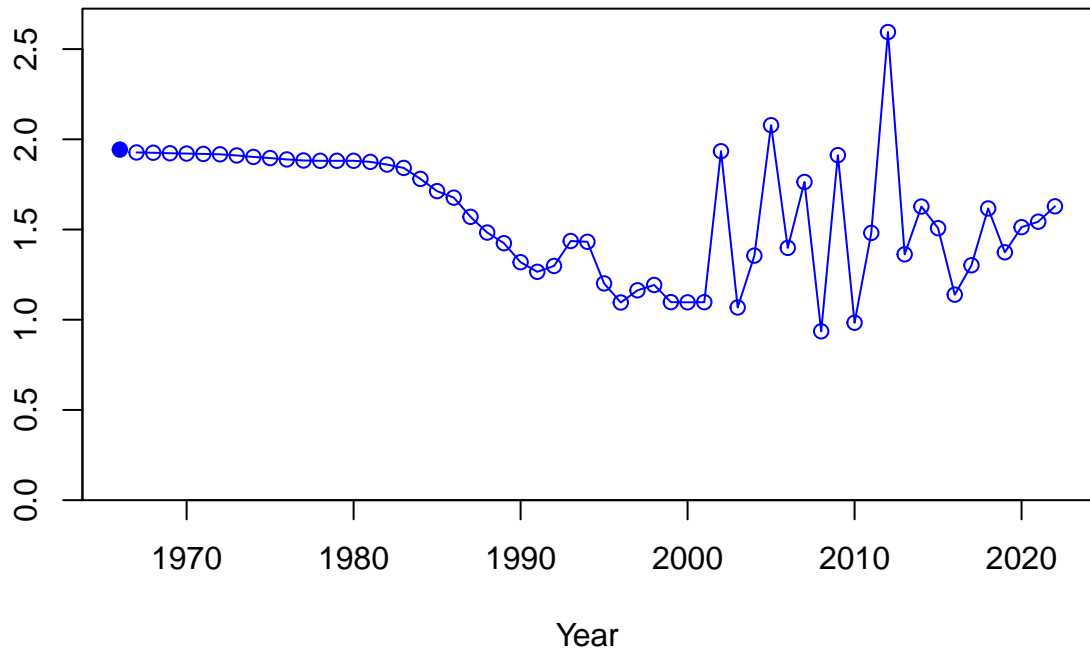
Relative spawning biomass: B/B_{MSY}



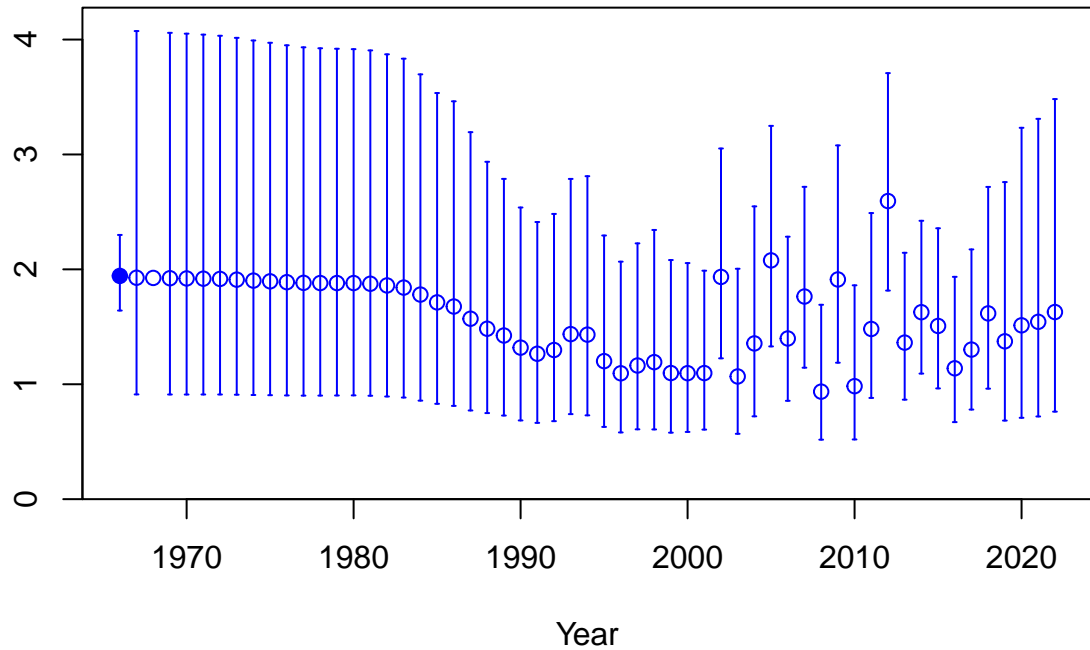




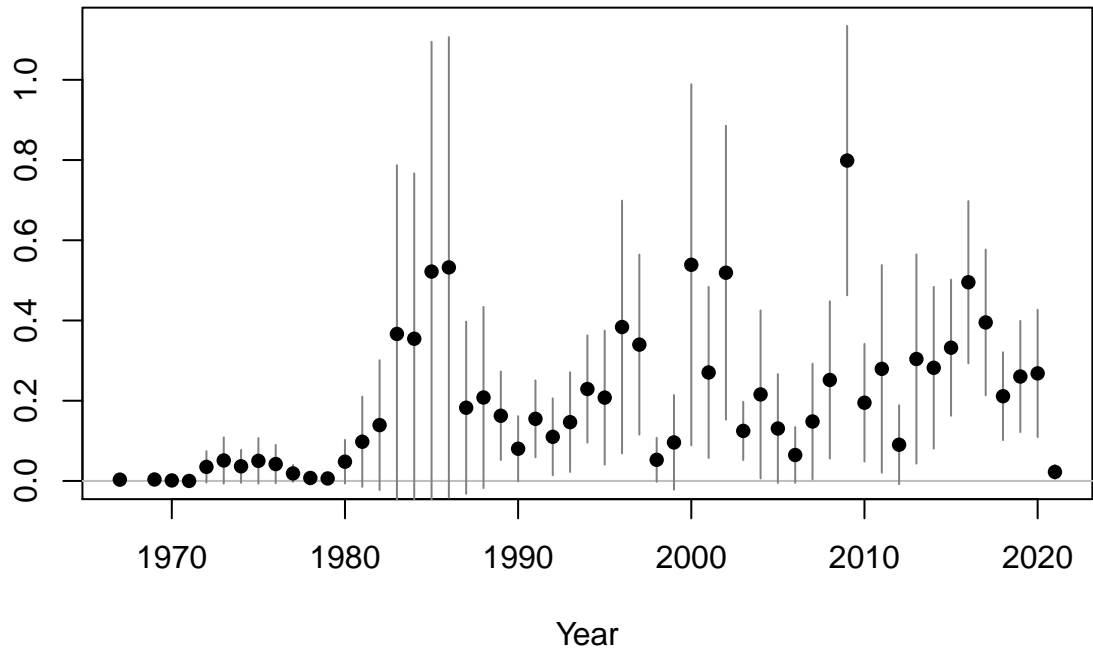
Age-0 recruits (1,000s)

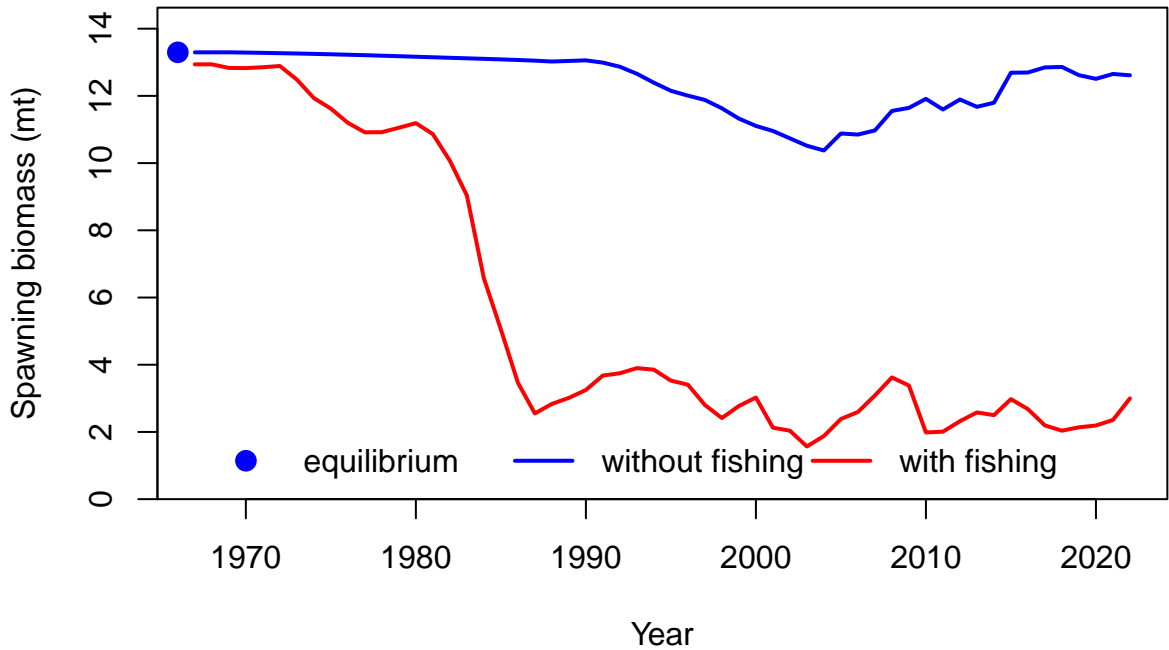


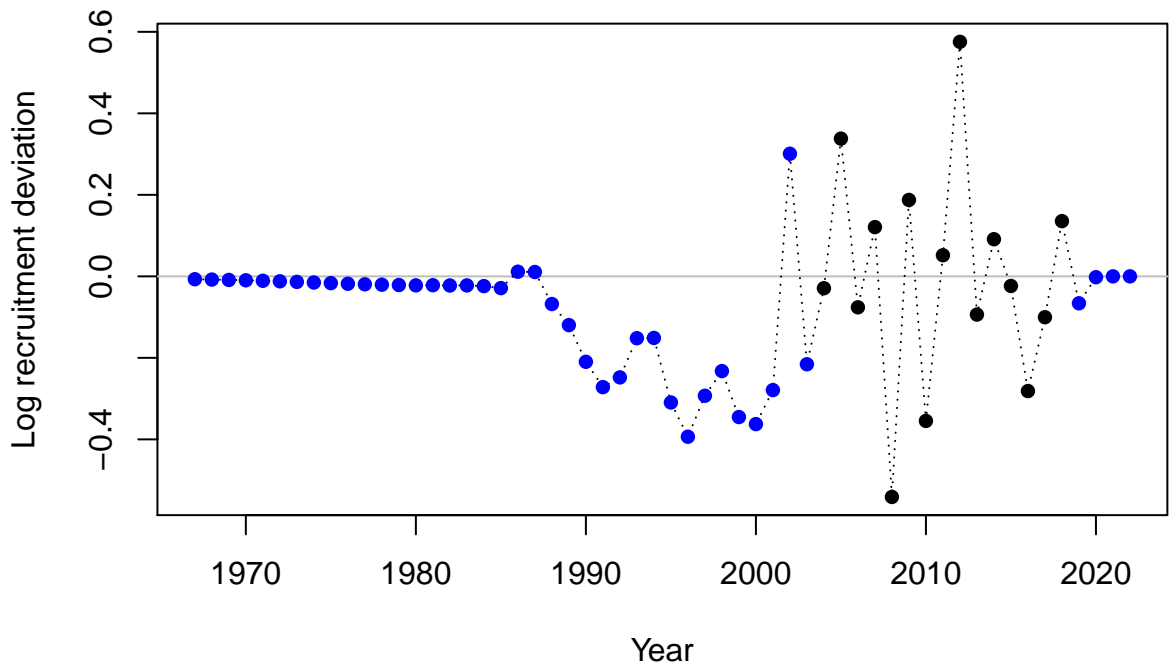
Age-0 recruits (1,000s)



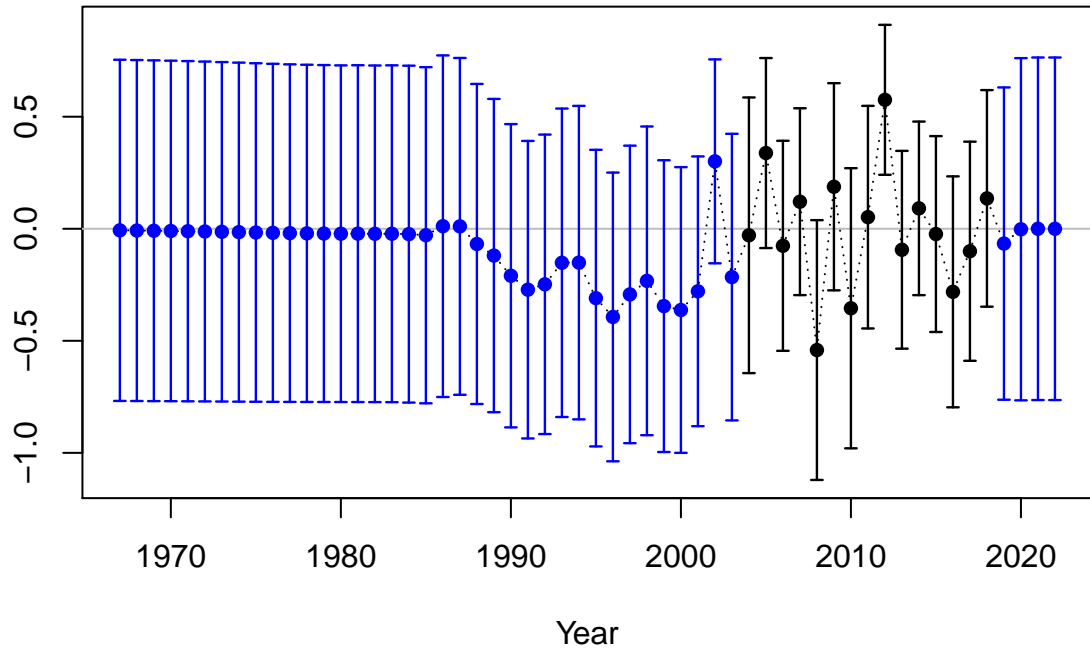
Summary Fishing Mortality





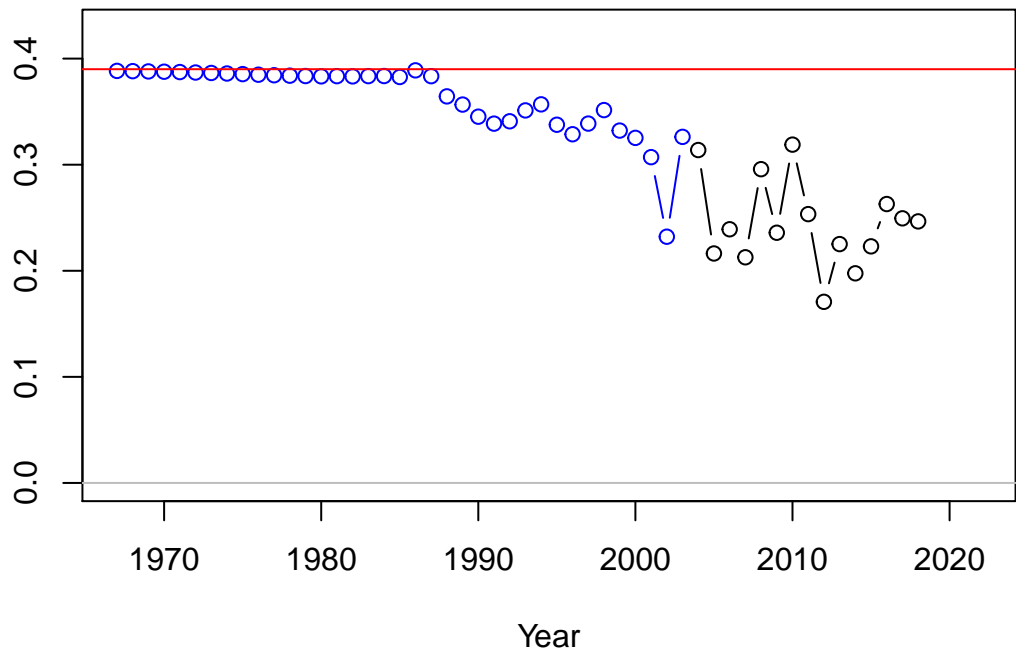


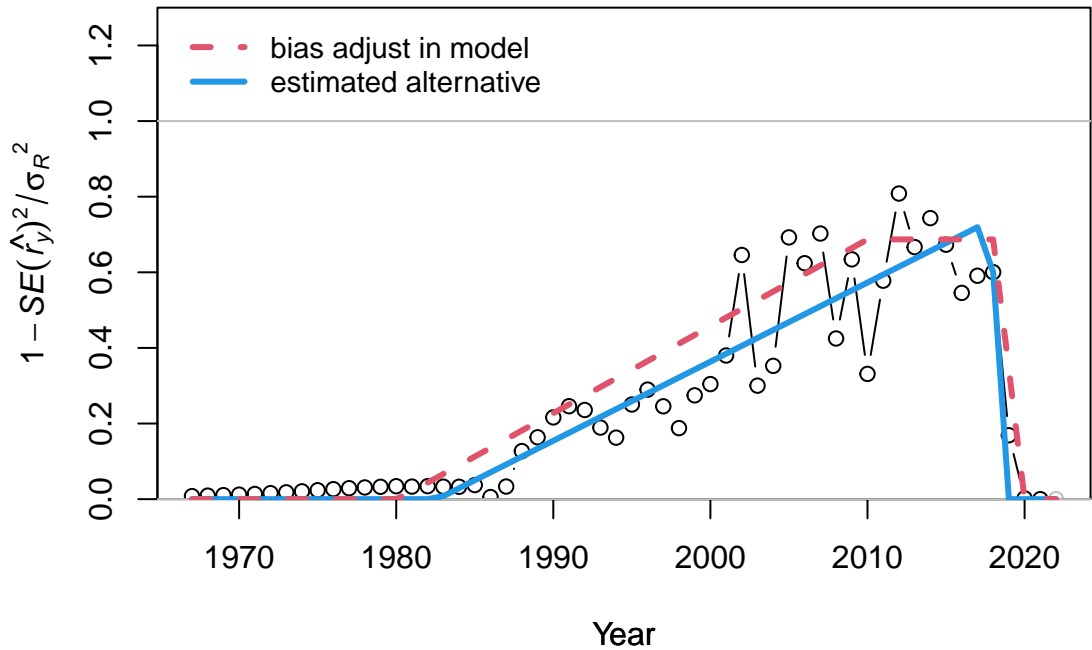
Log recruitment deviation

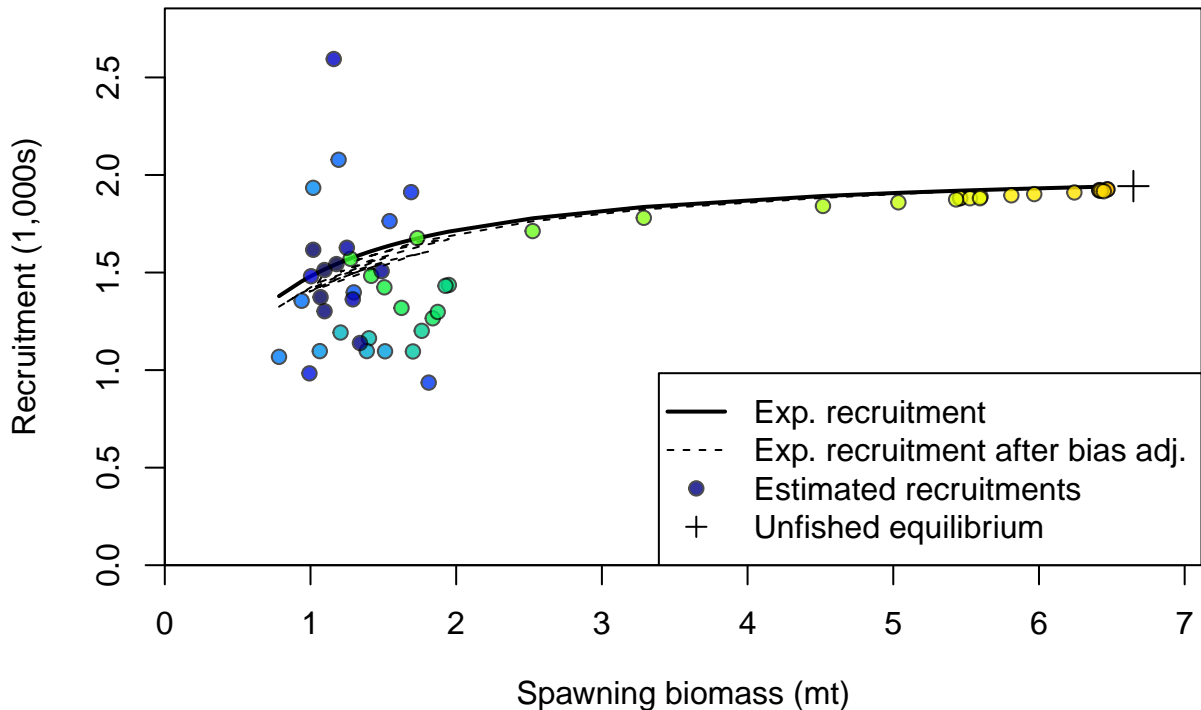


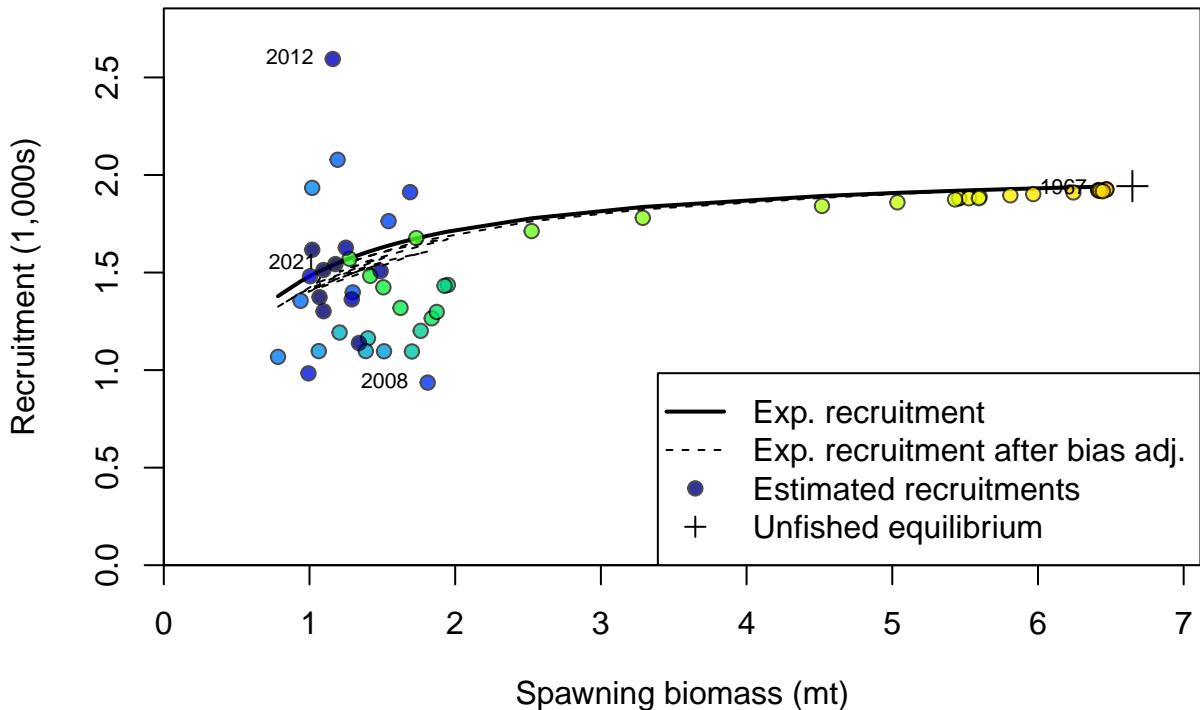
Recruitment deviation variance

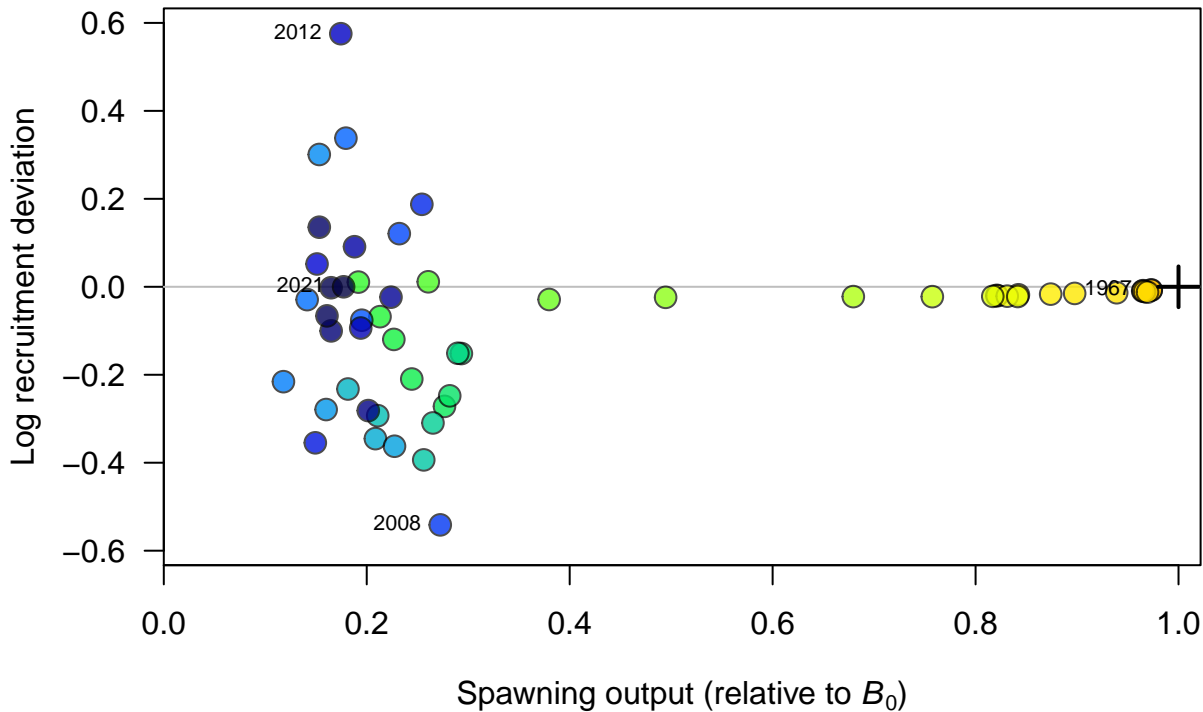
Asymptotic standard error estimate

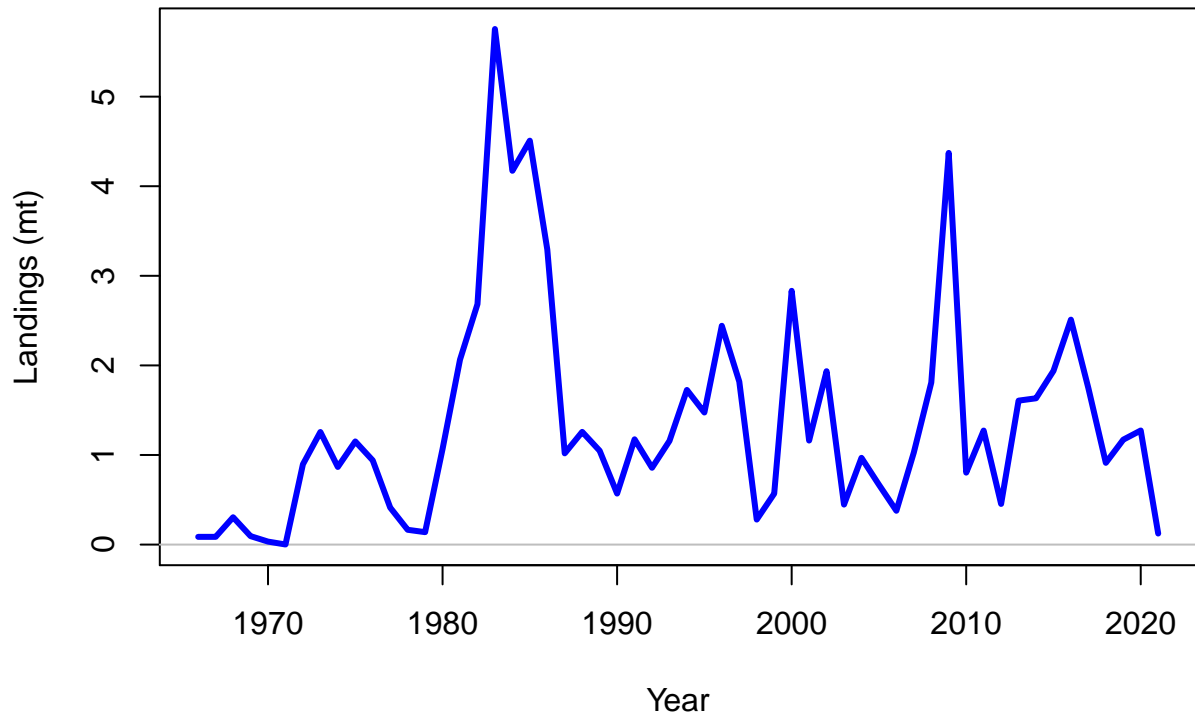


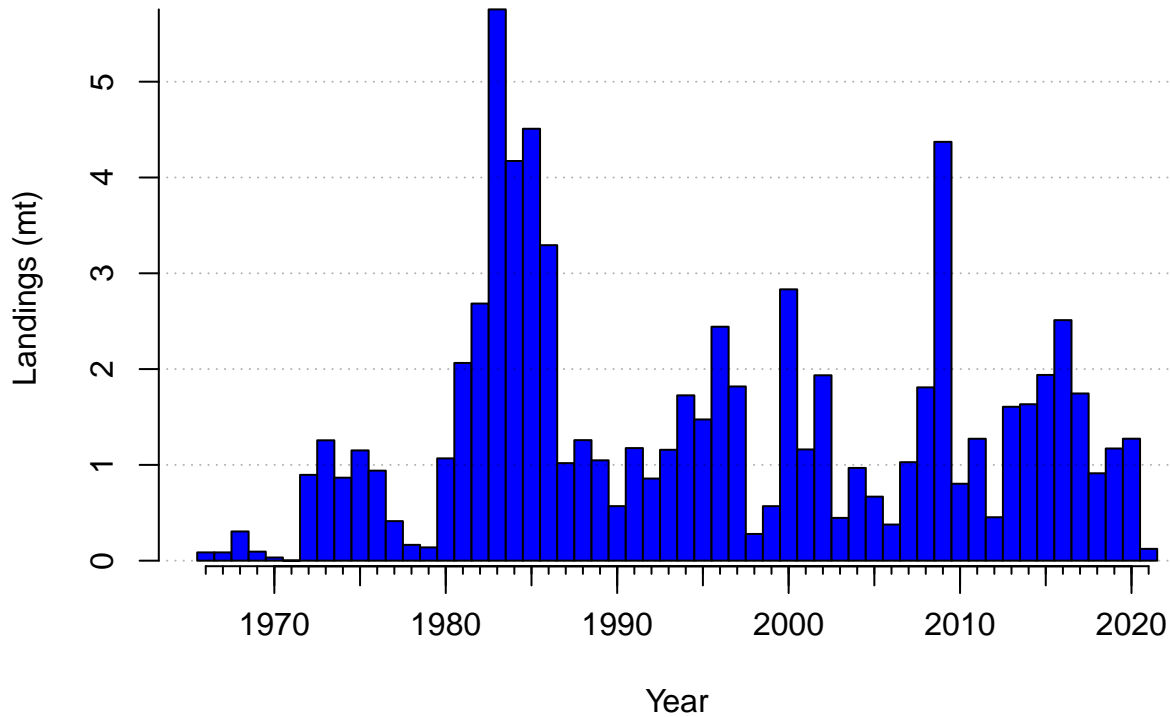




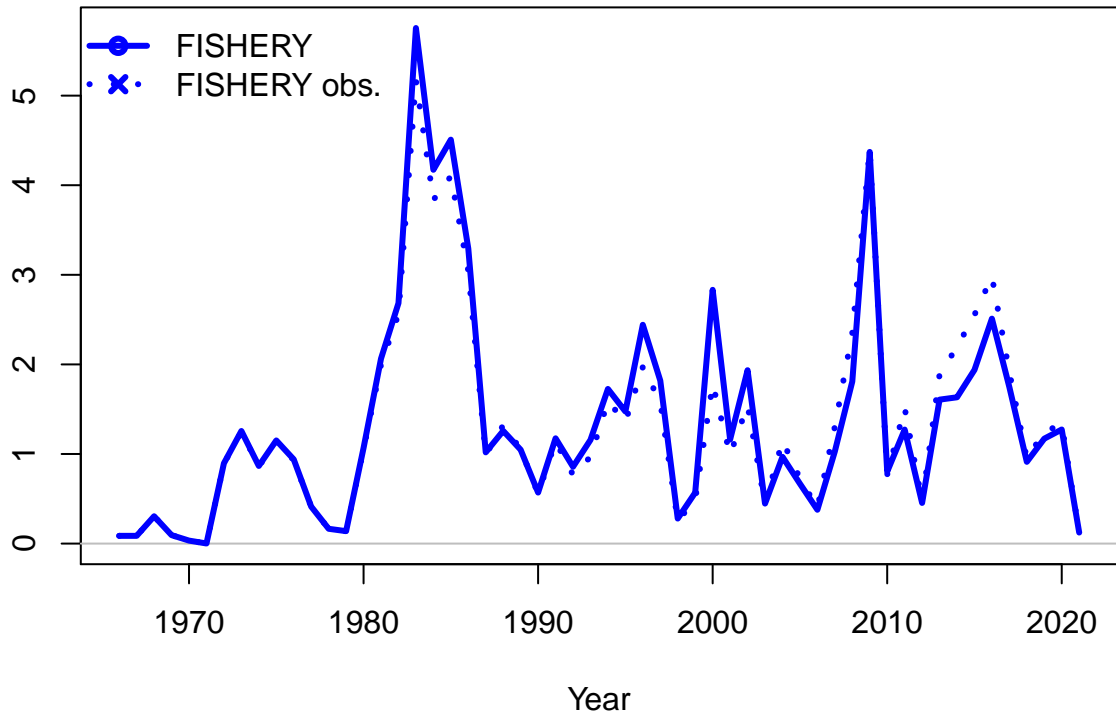


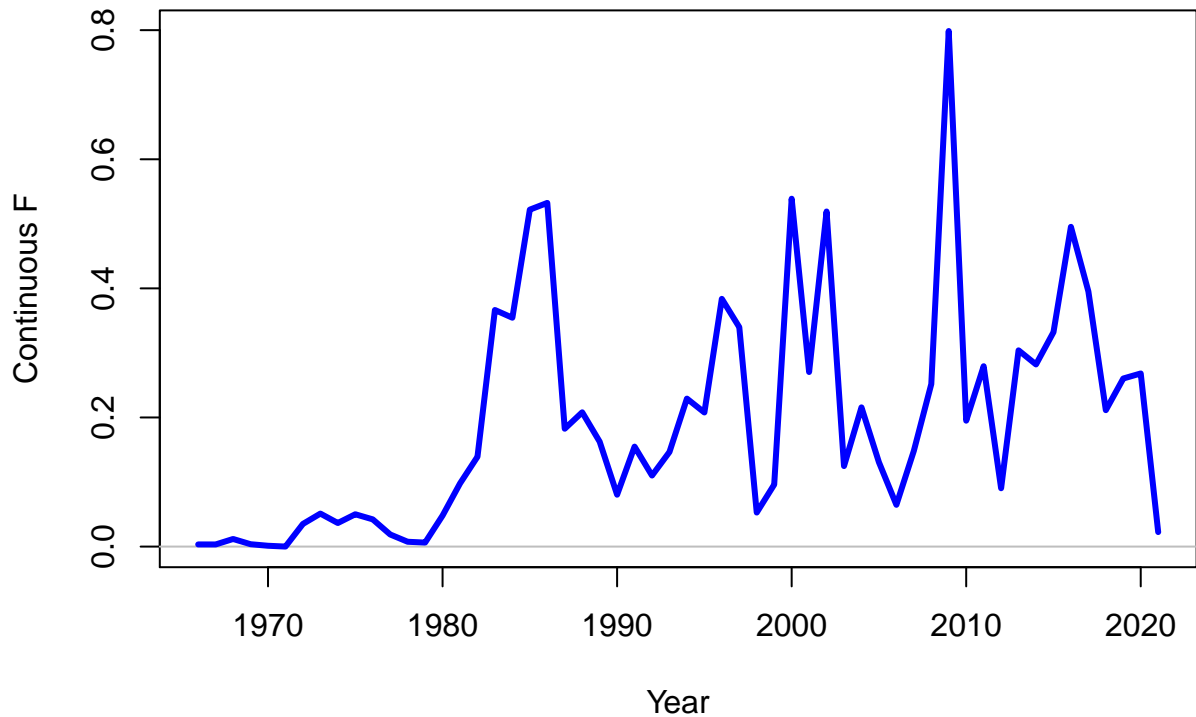




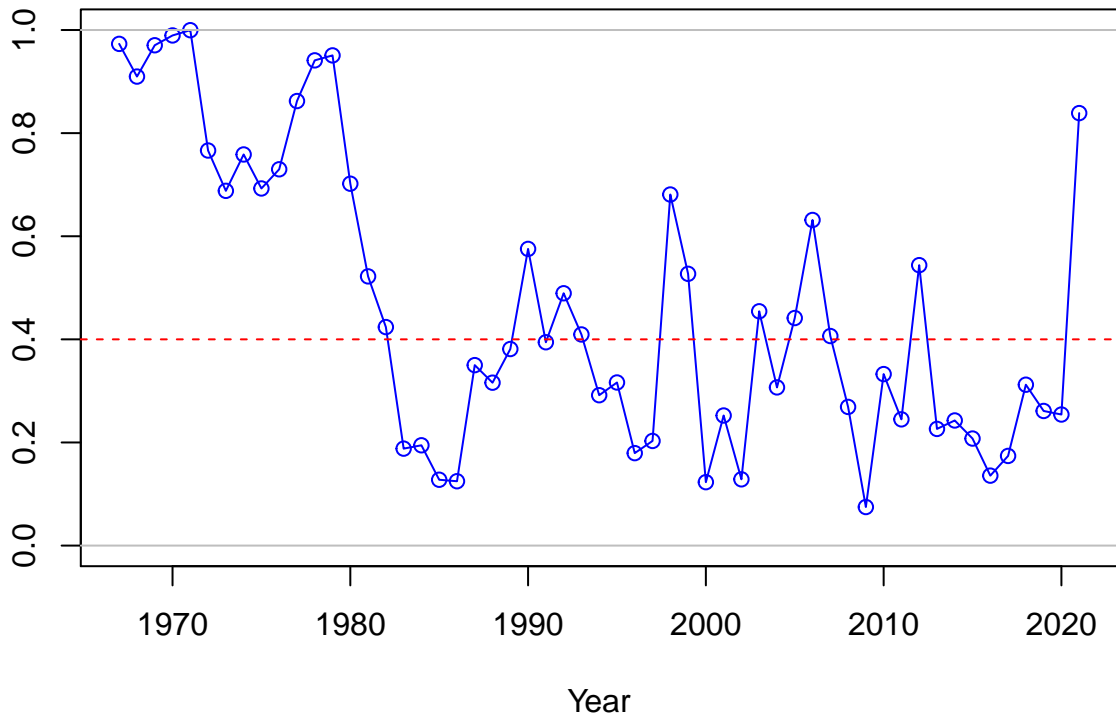


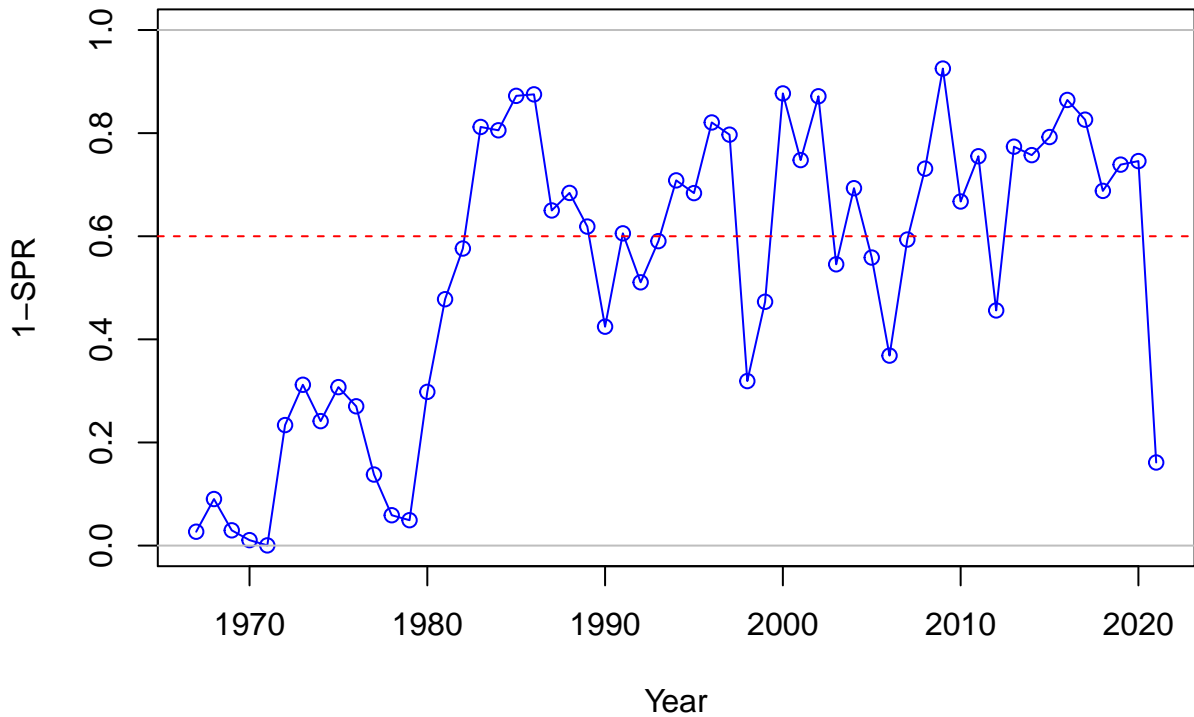
Observed and expected Landings (mt)



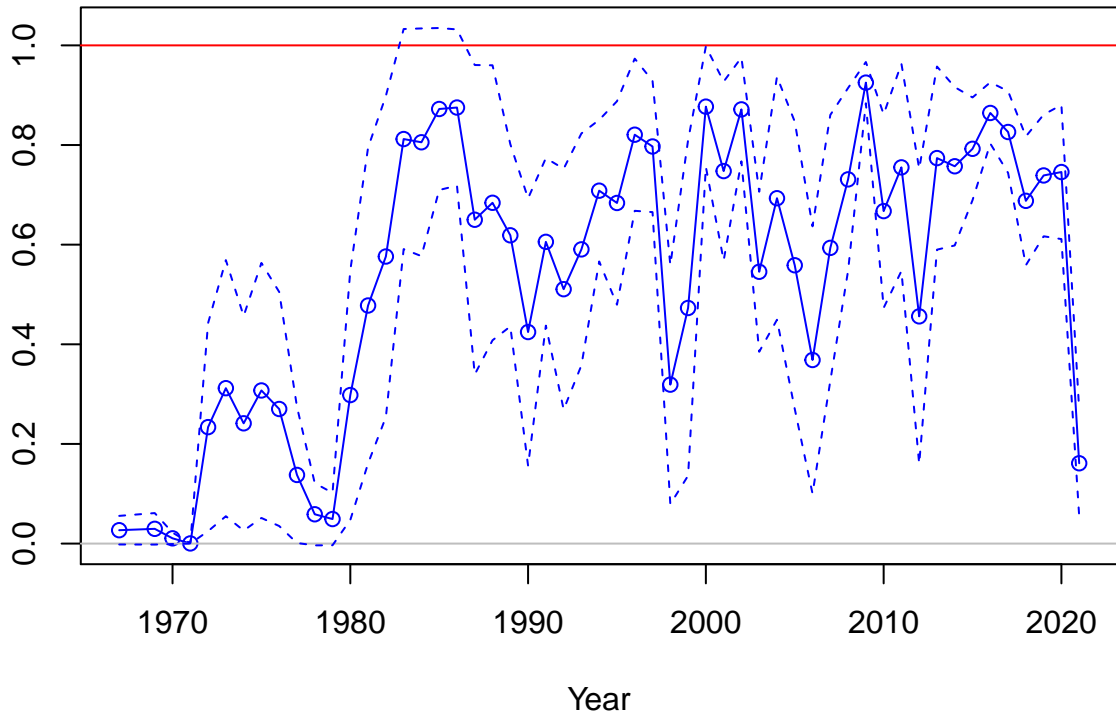


SPR

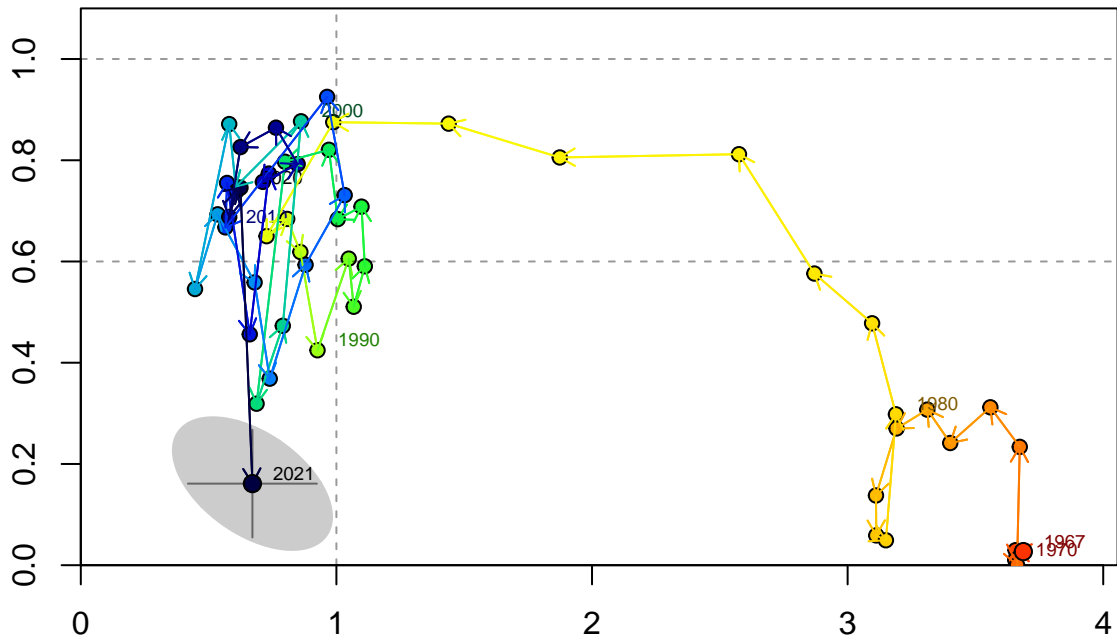




Fishing intensity: 1-SPR



Fishing intensity: 1-SPR



Relative spawning output: B/B_MSY

Index

25
20
15
10
5
0

1990

1995

2000

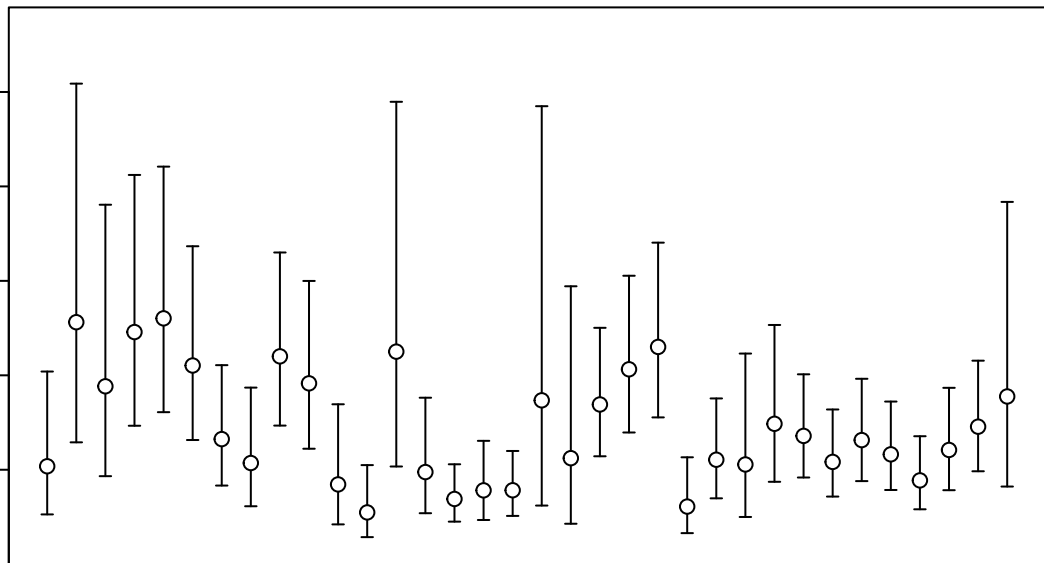
2005

2010

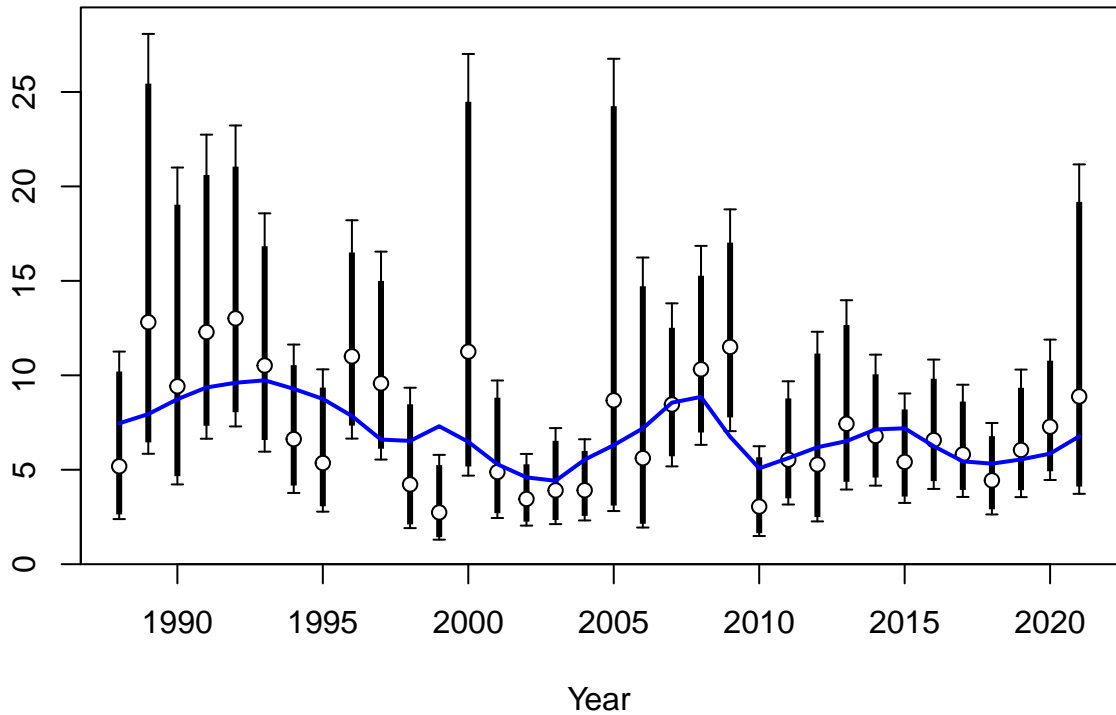
2015

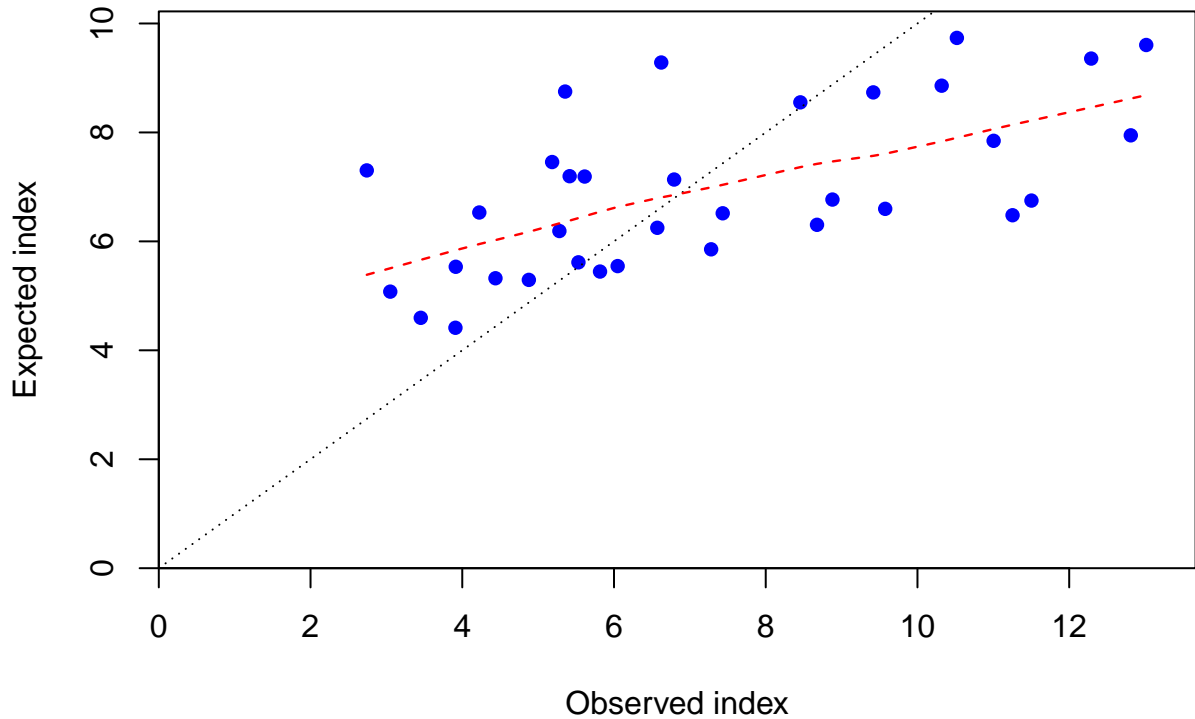
2020

Year



Index





Log index

0.5
1.0
1.5
2.0
2.5
3.0

1990

1995

2000

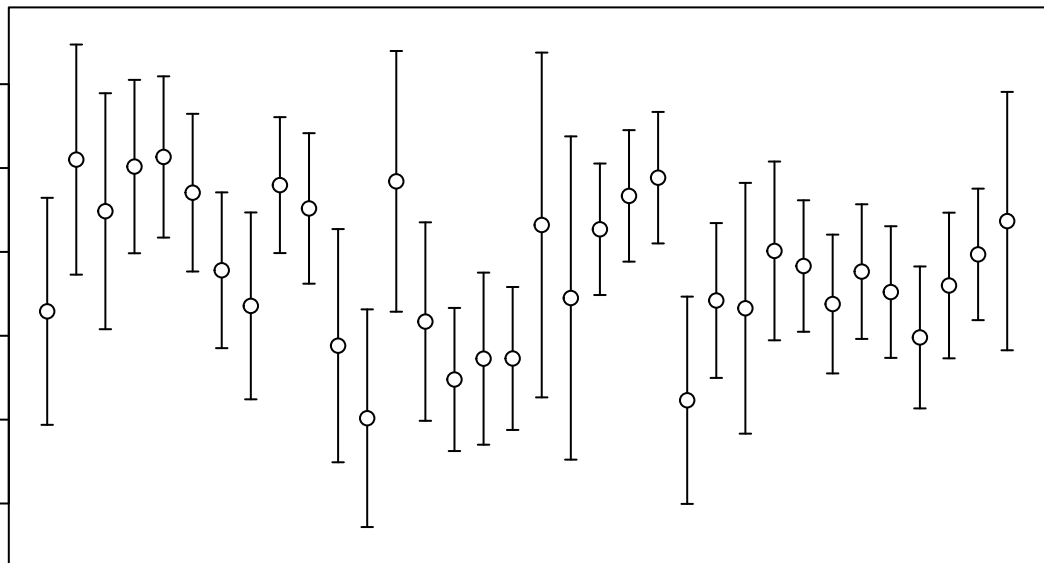
2005

2010

2015

2020

Year



Log index

3.0
2.5
2.0
1.5
1.0
0.5

1990

1995

2000

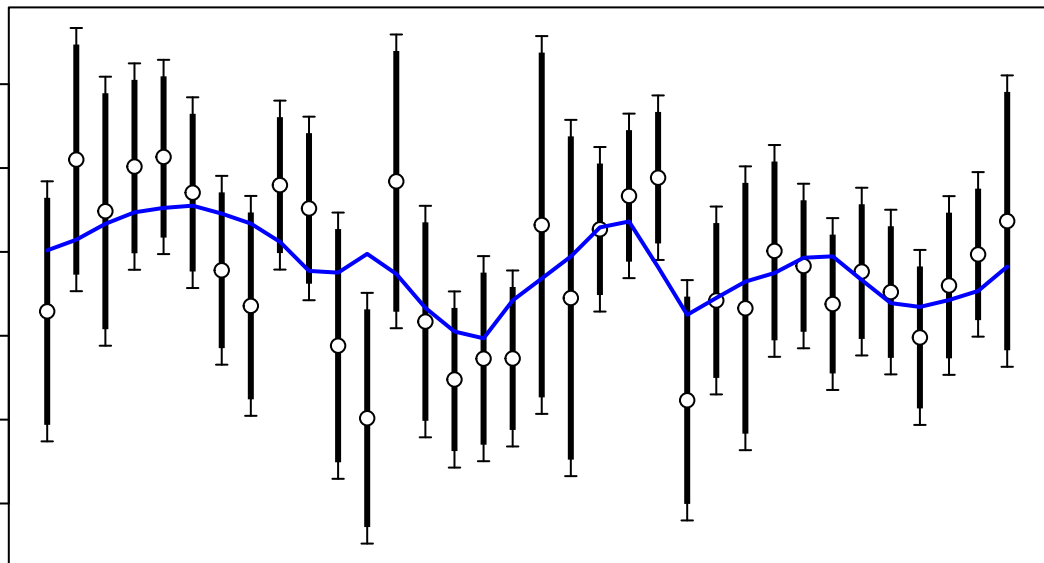
2005

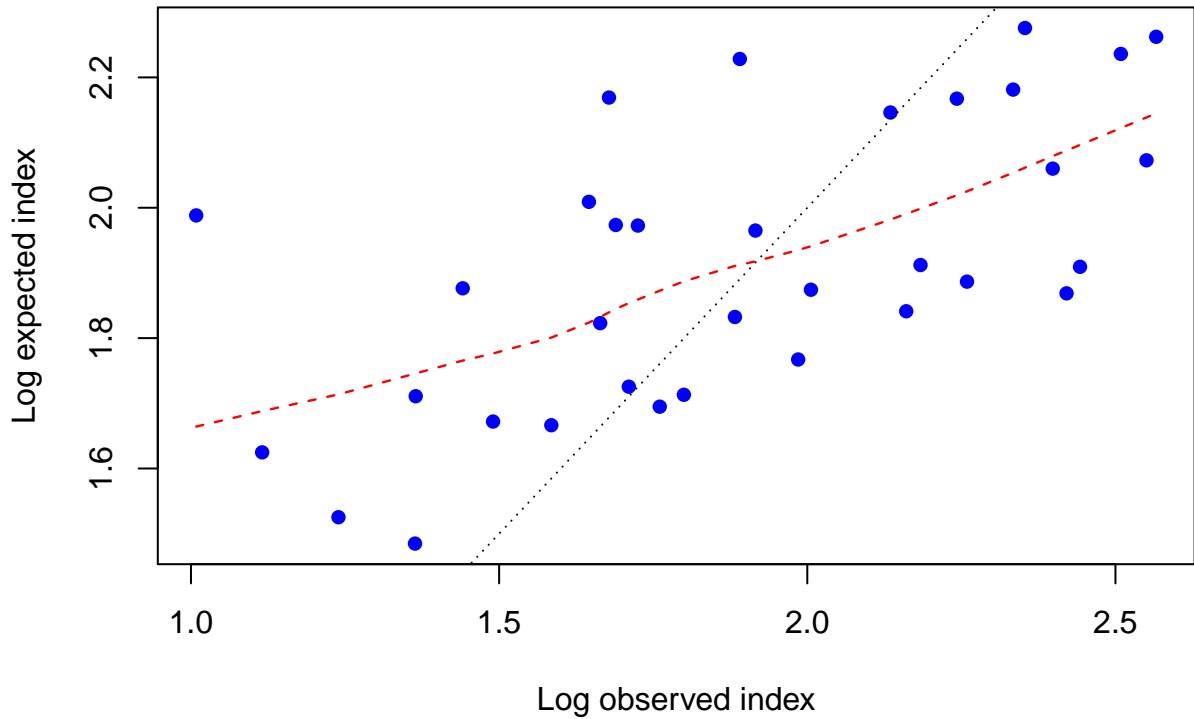
2010

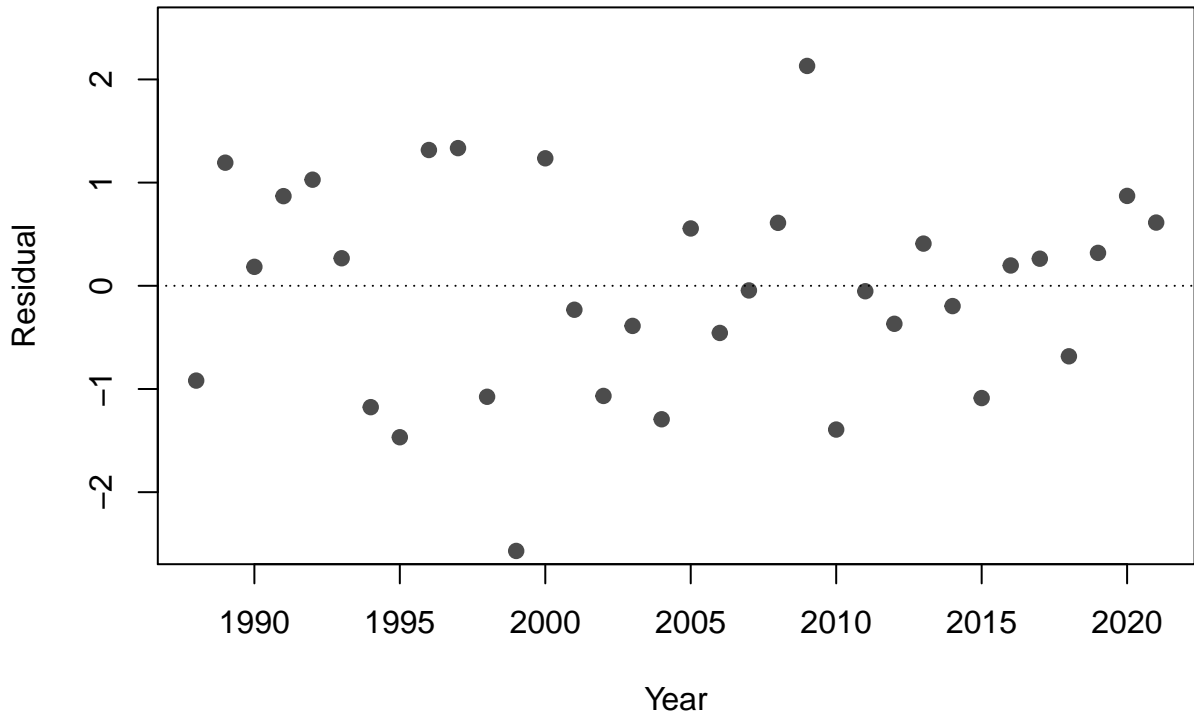
2015

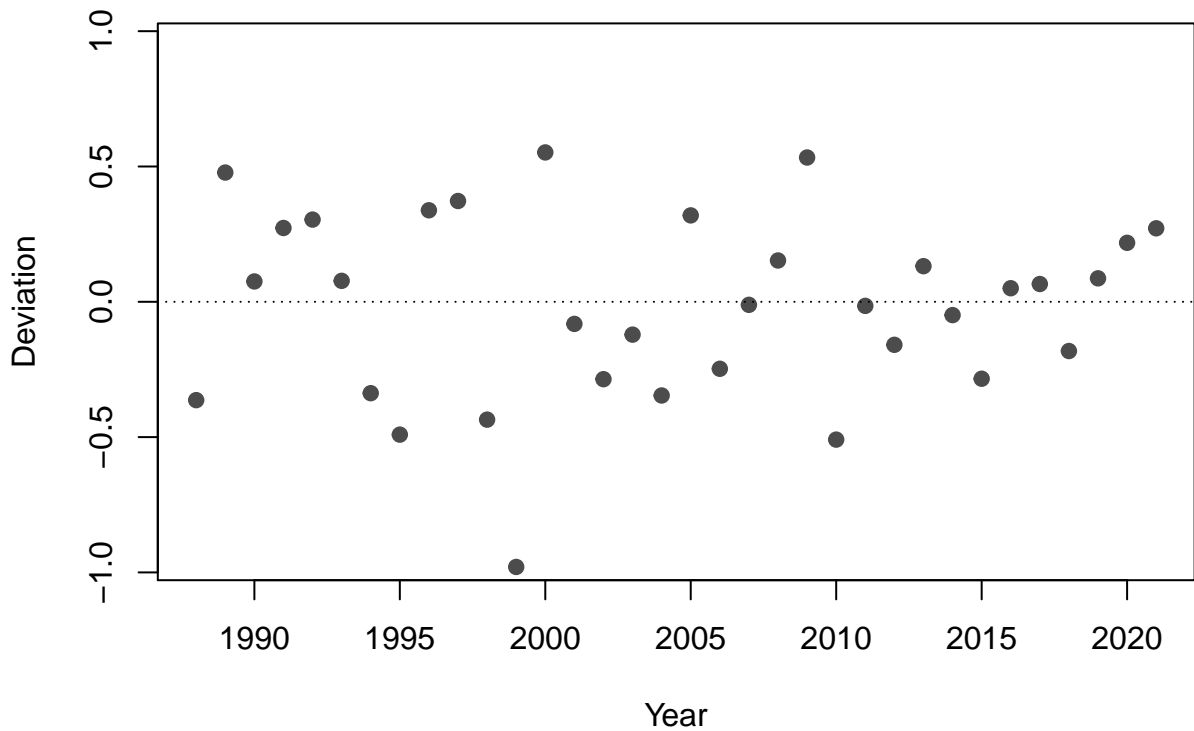
2020

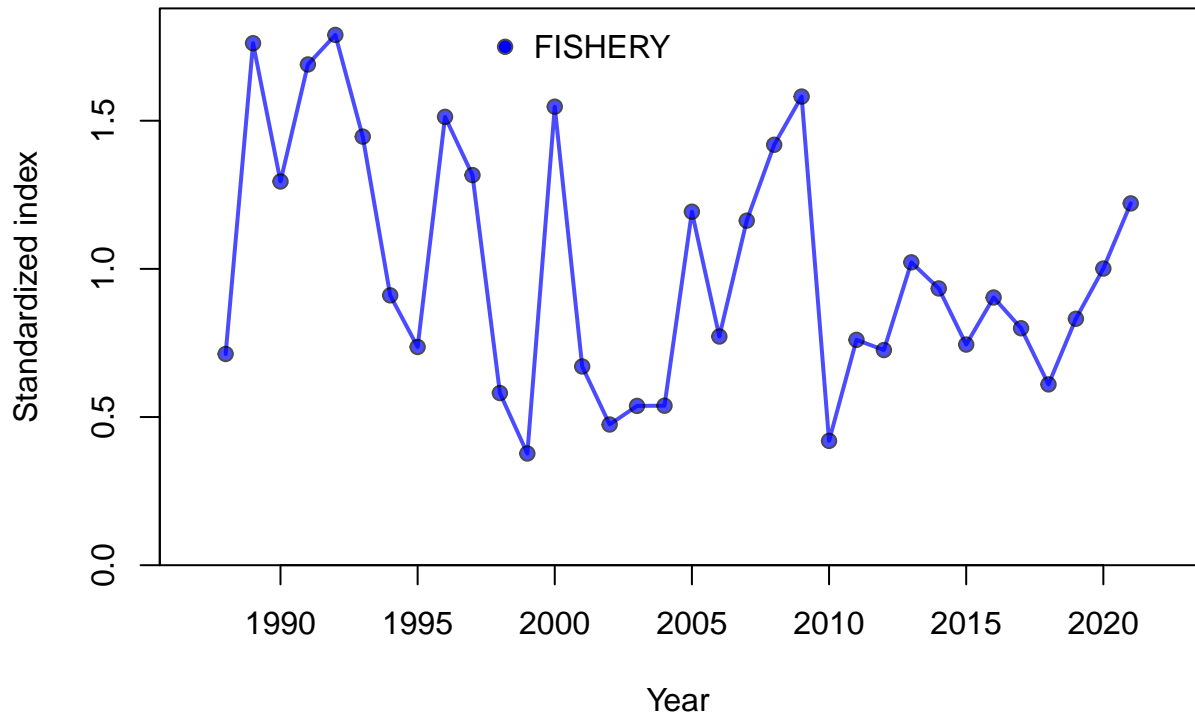
Year

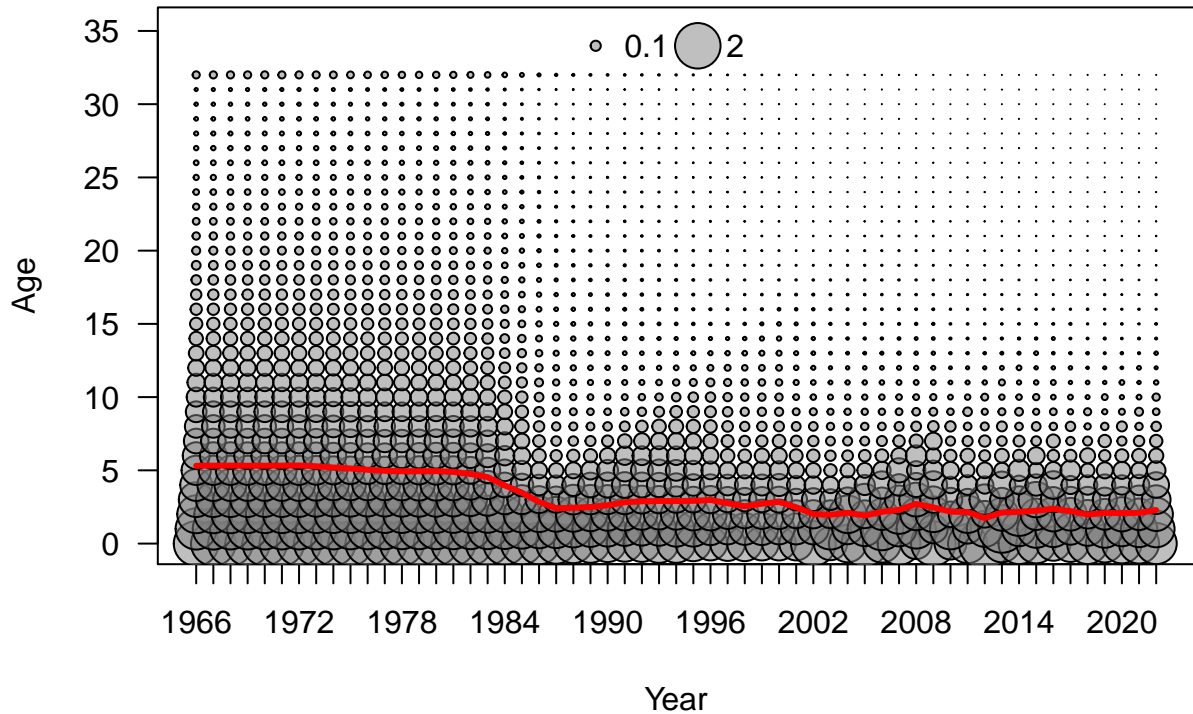


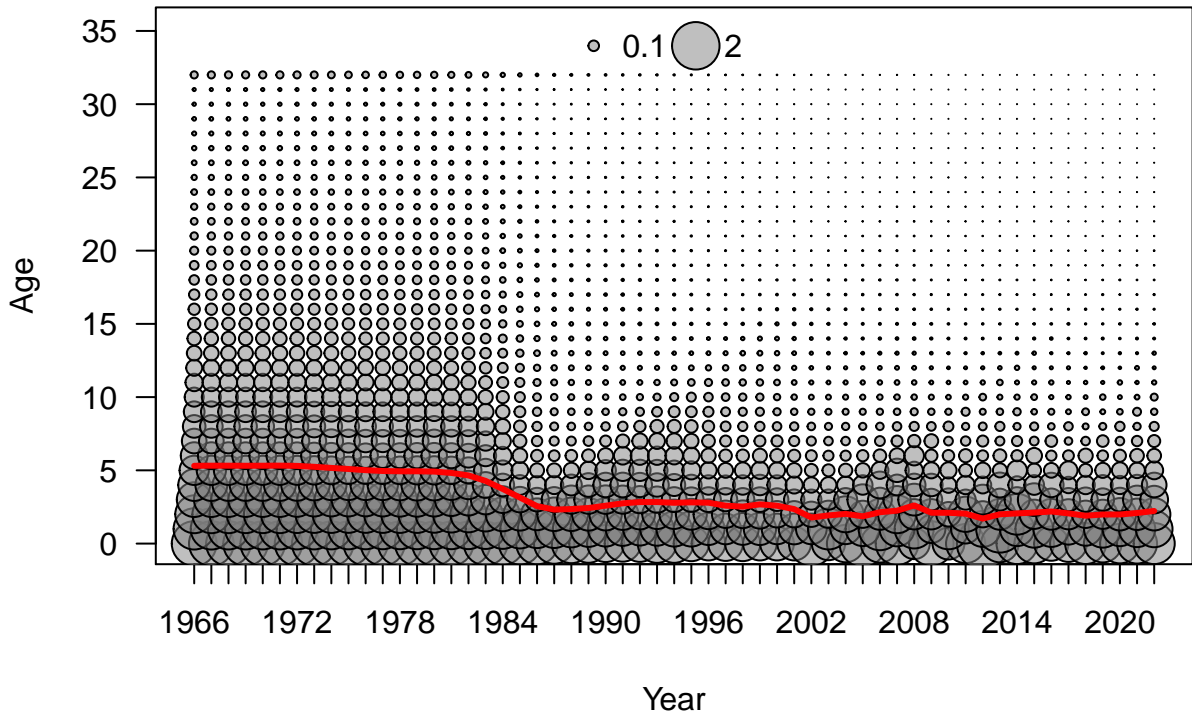


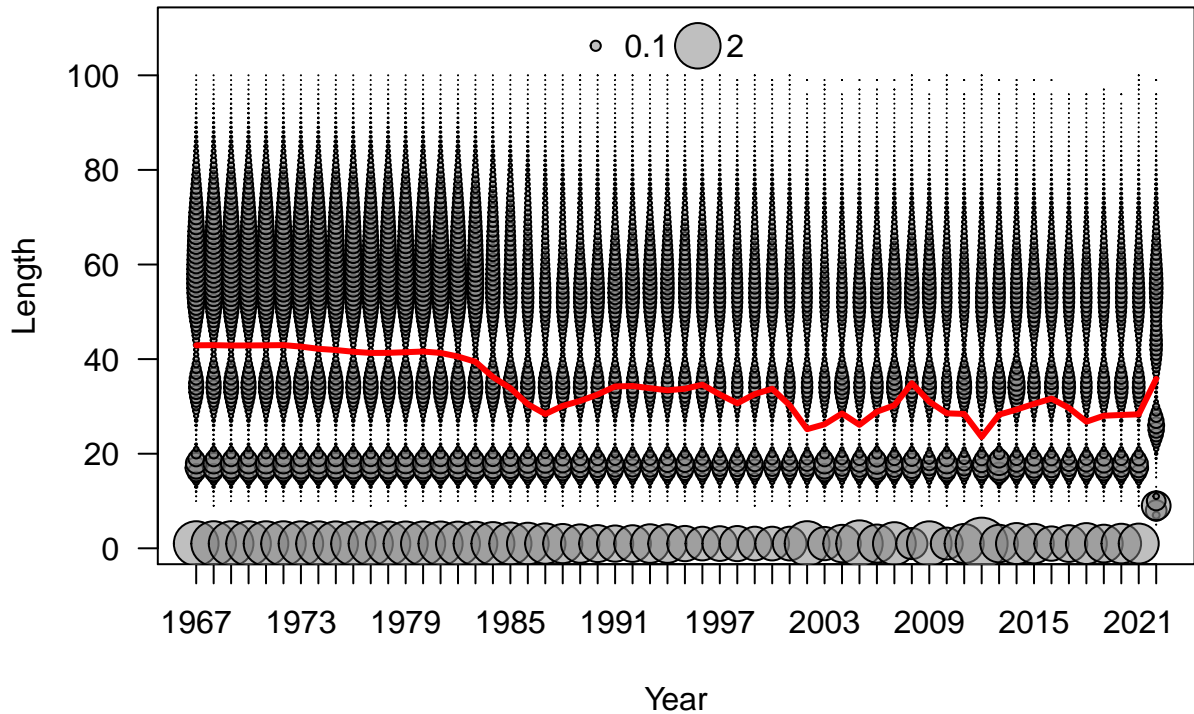


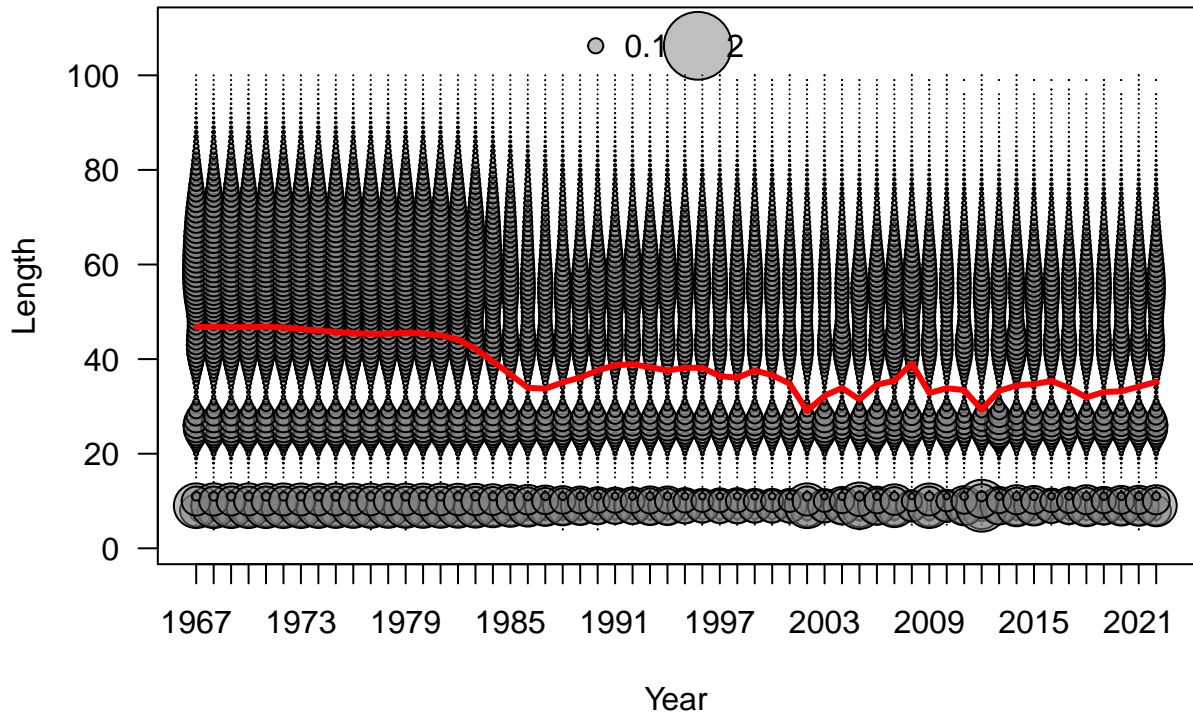


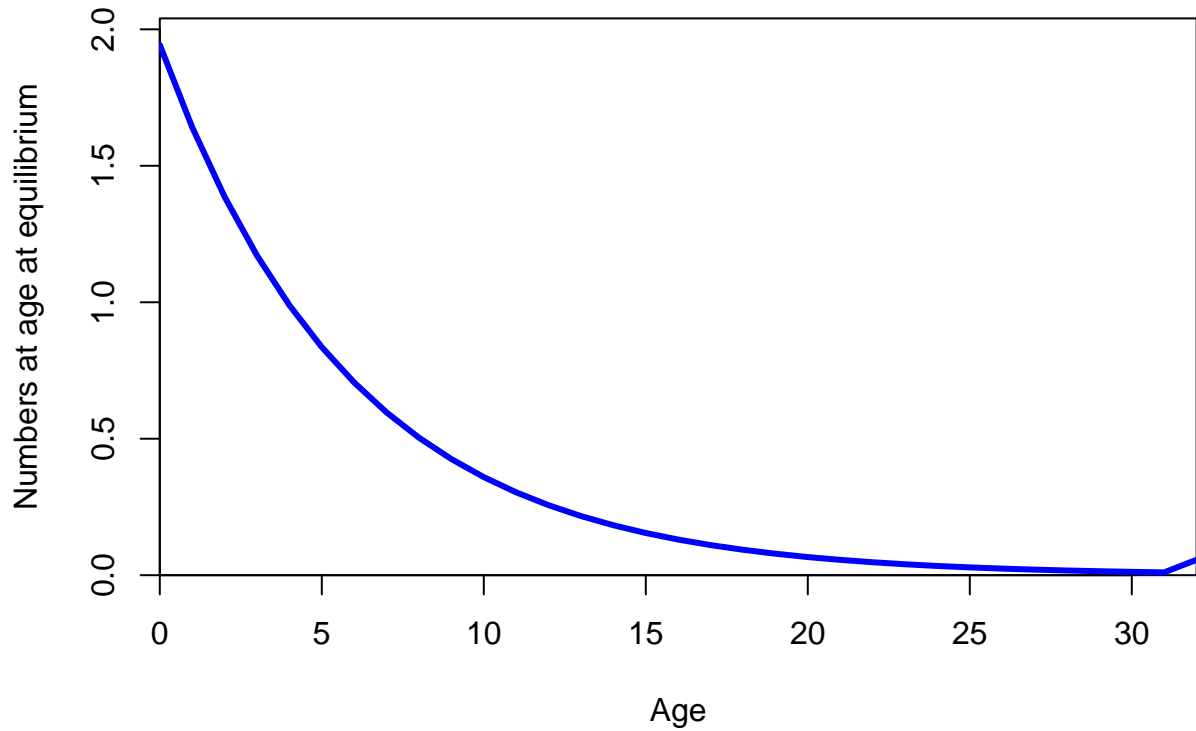


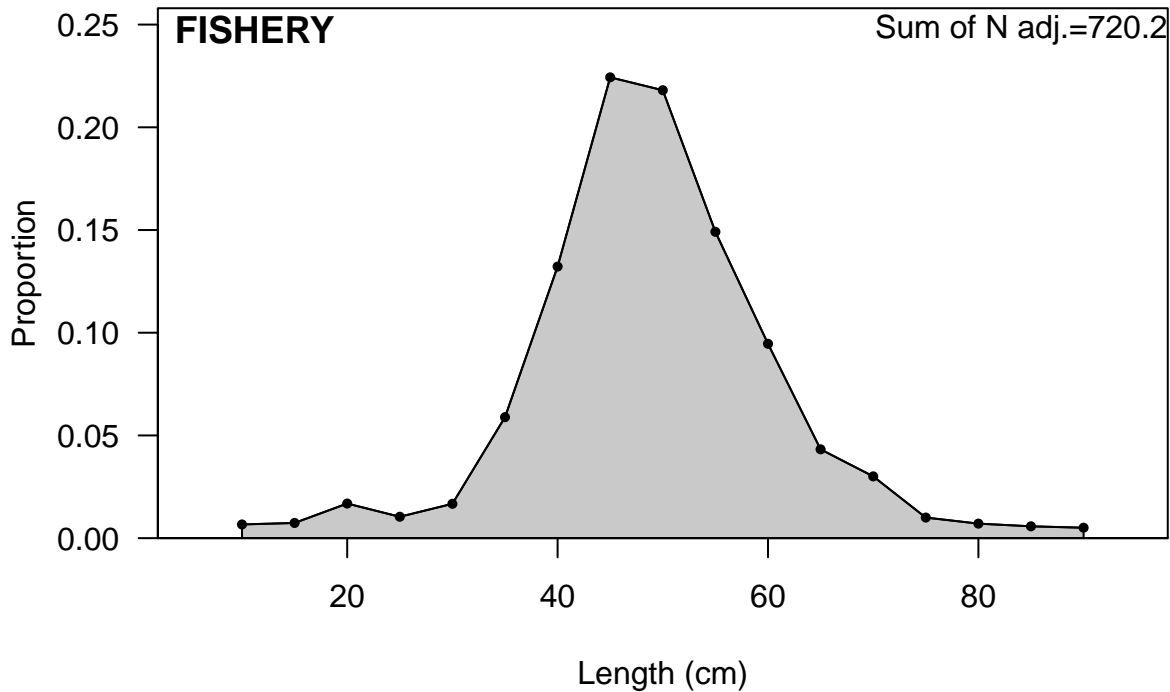






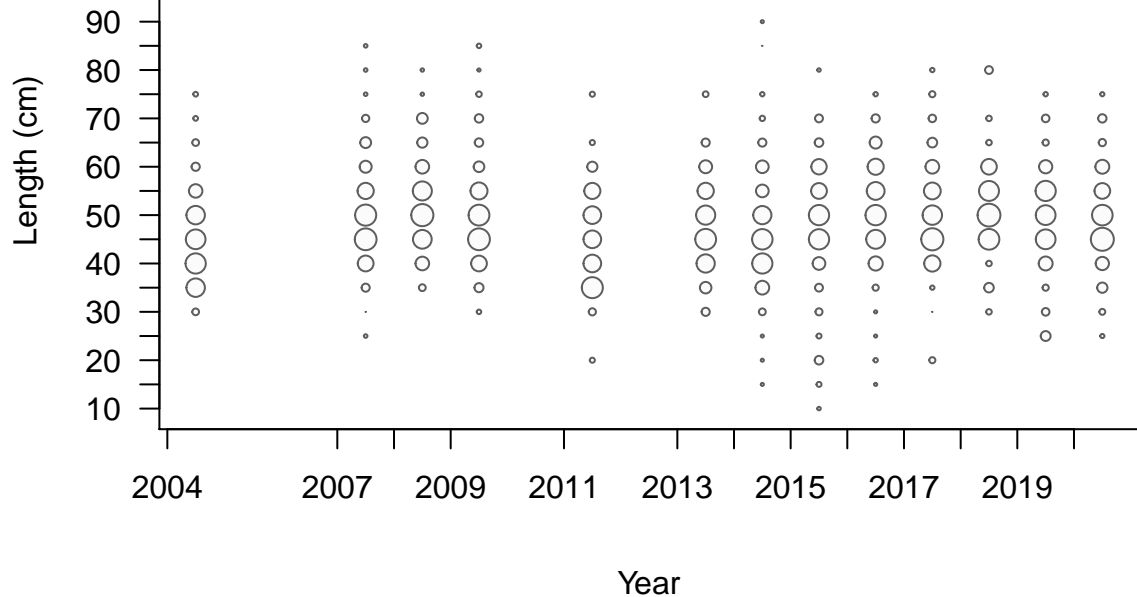




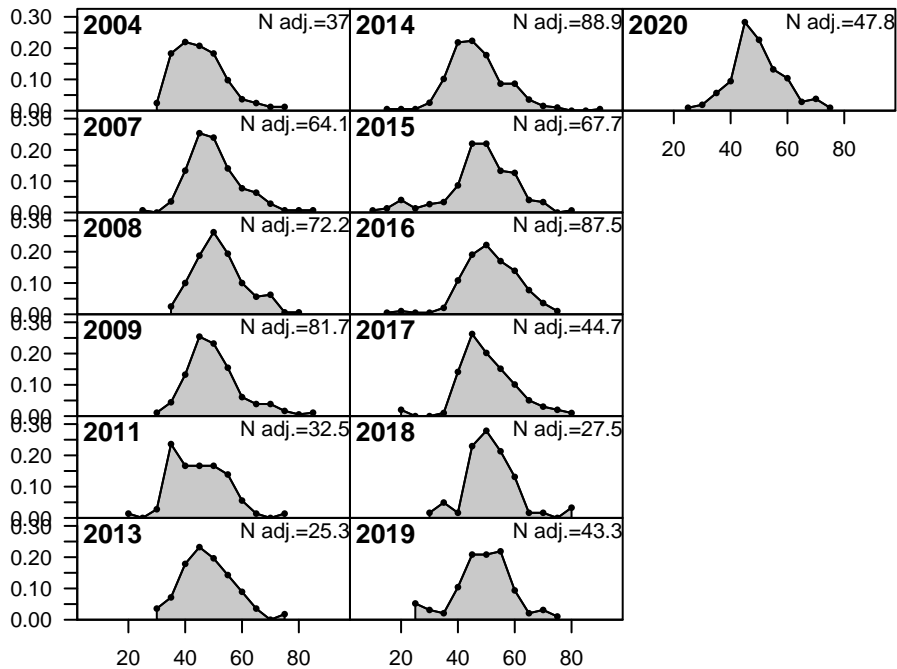


FISHERY

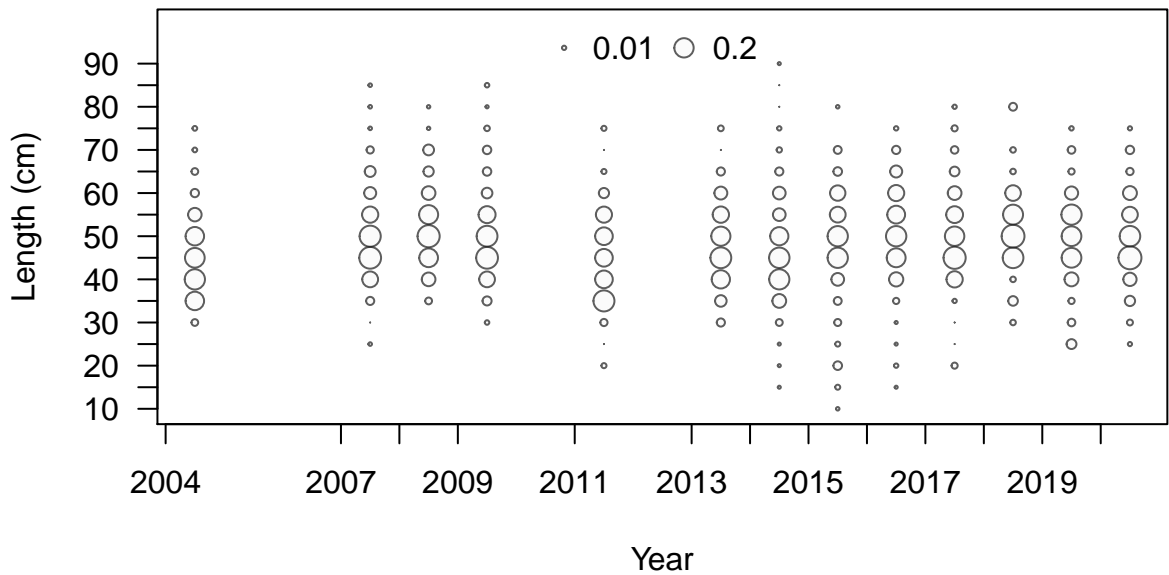
◦ 0.01 ○ 0.2



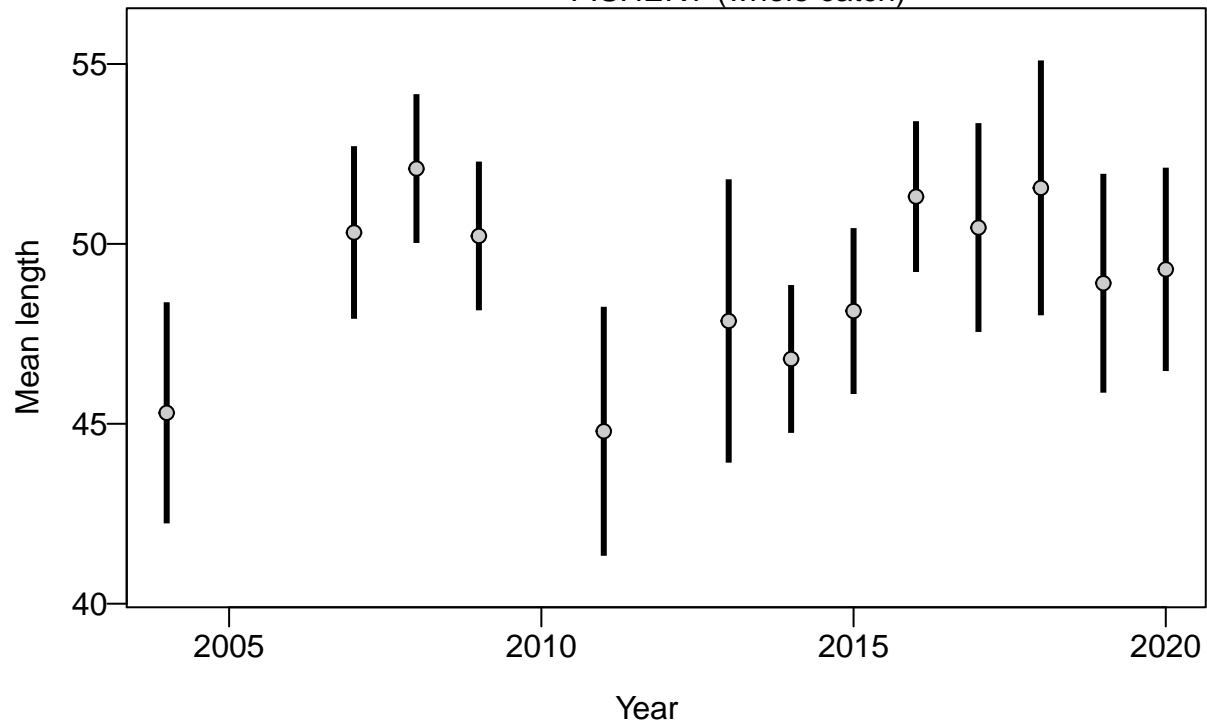
Proportion

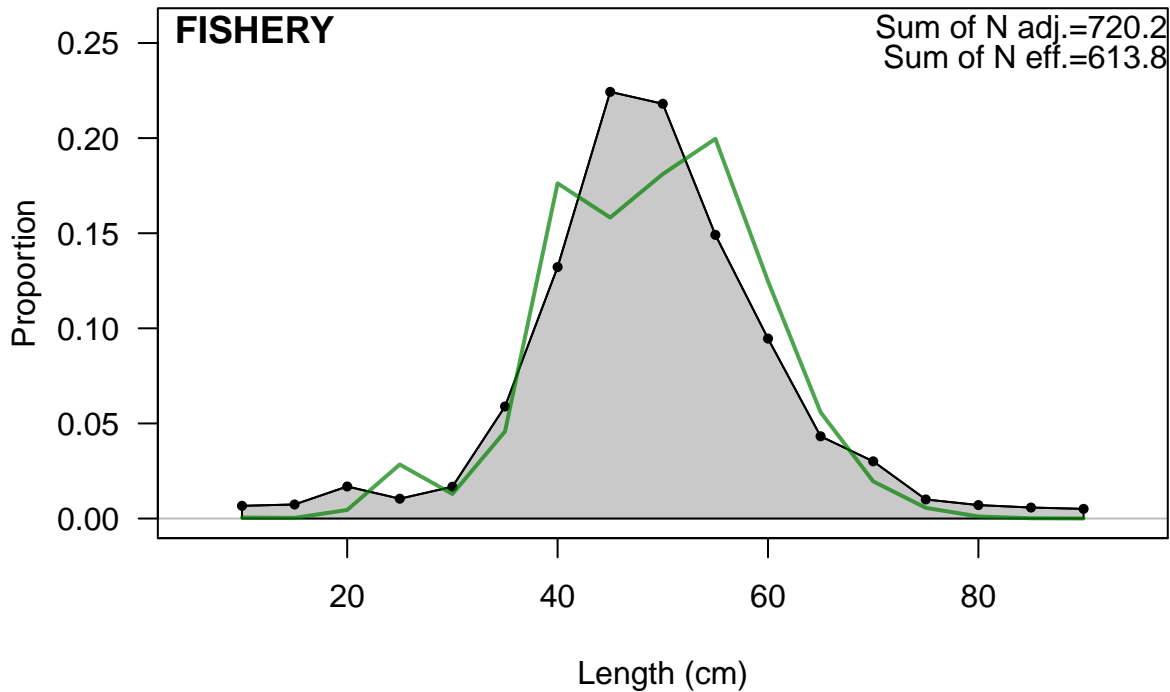


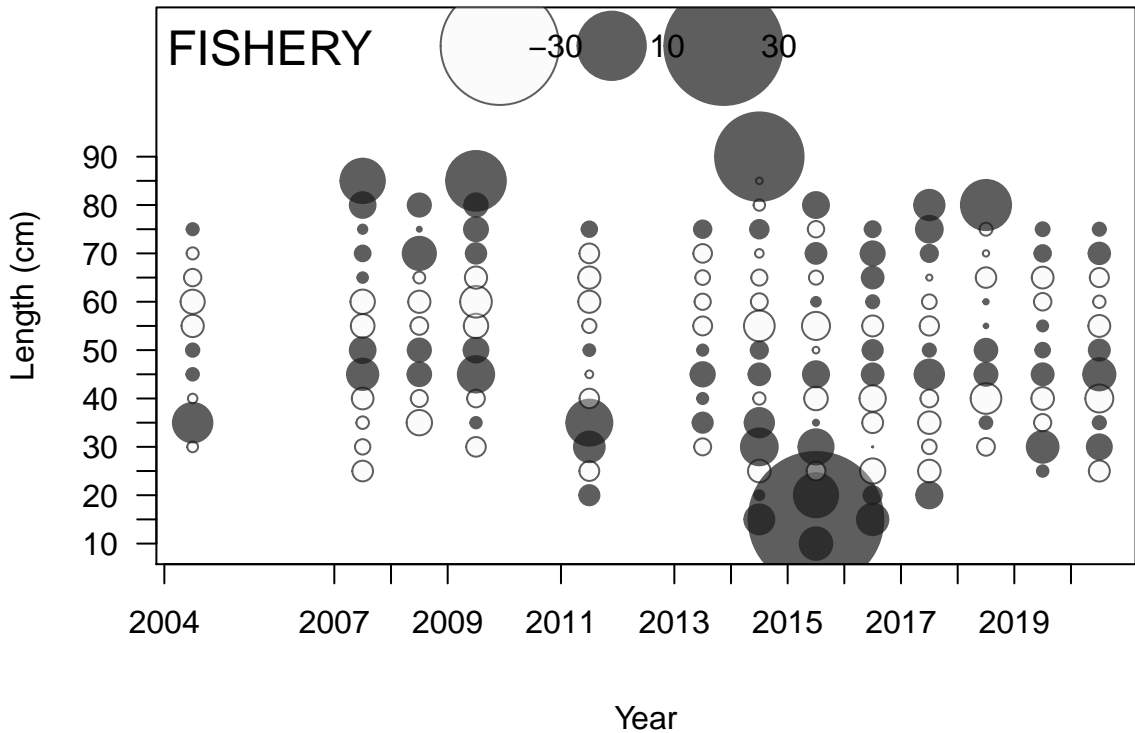
Length (cm)



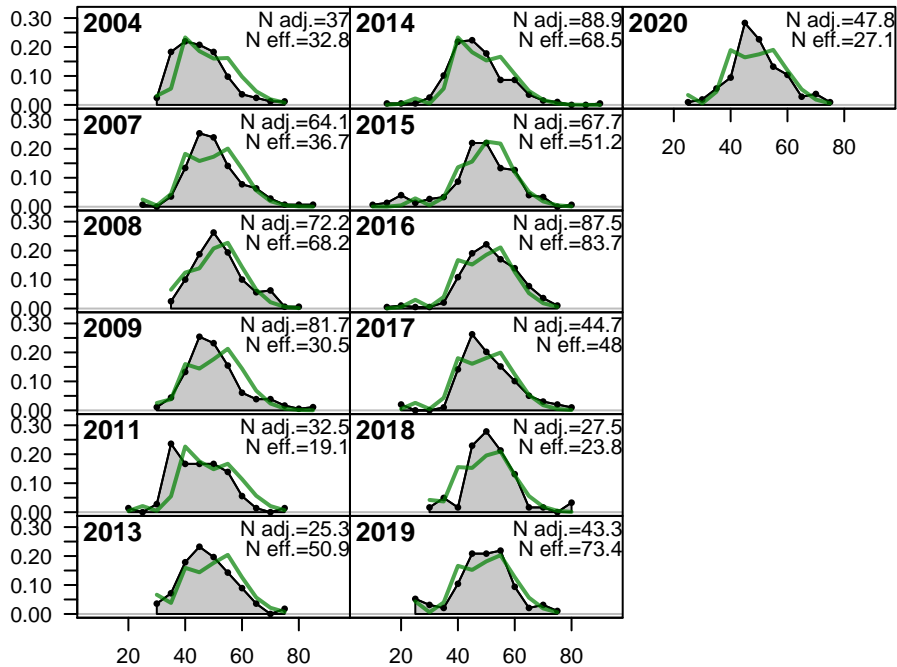
FISHERY (whole catch)



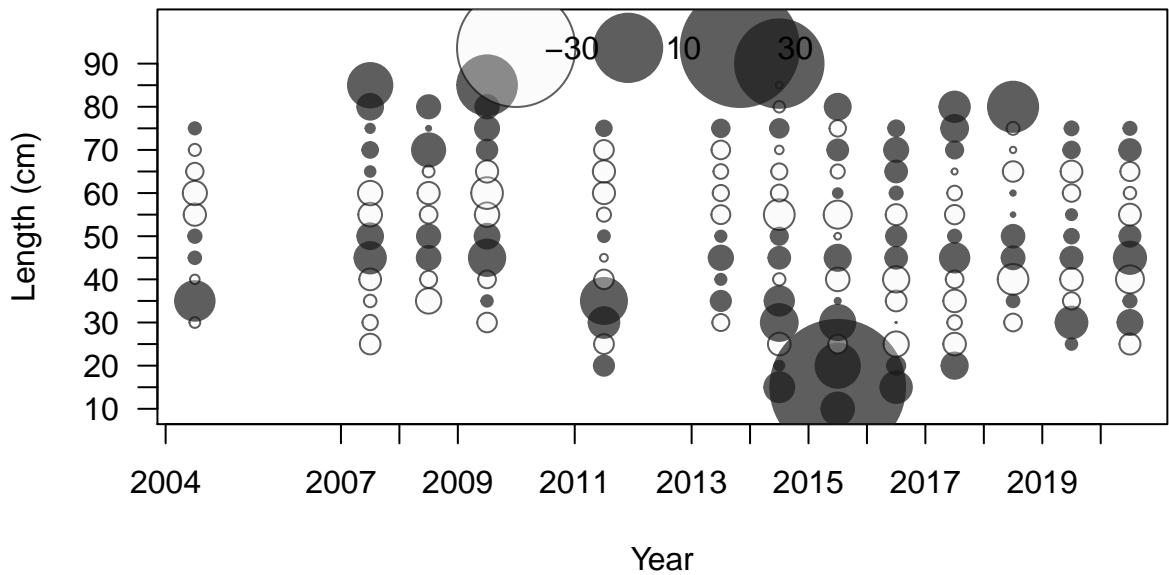




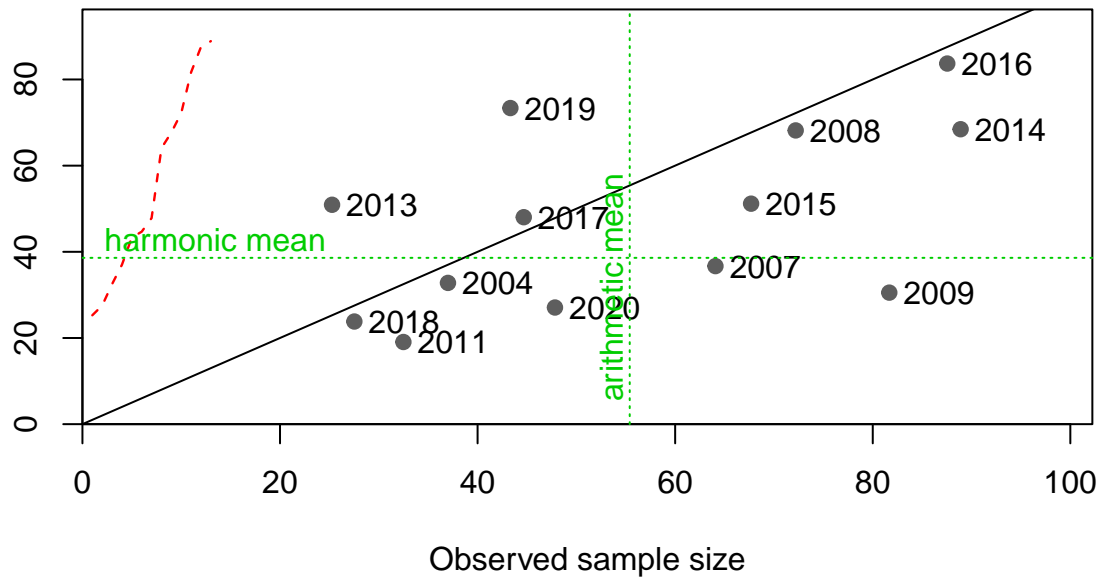
Proportion



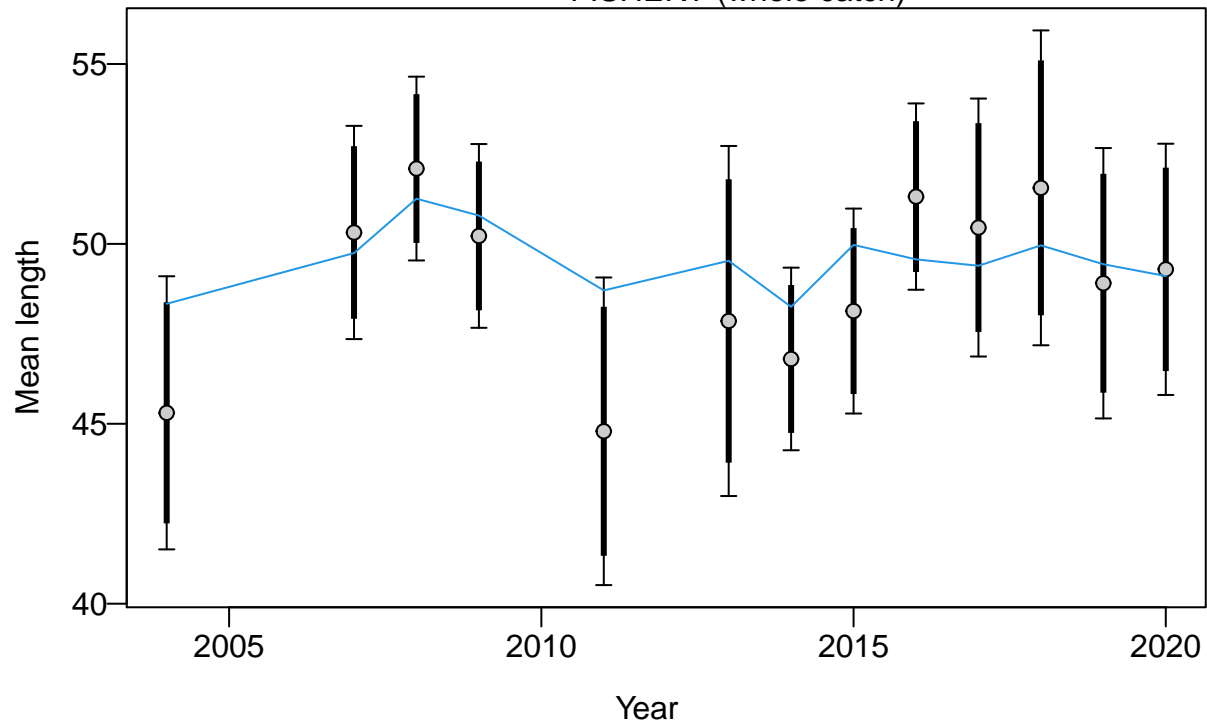
Length (cm)

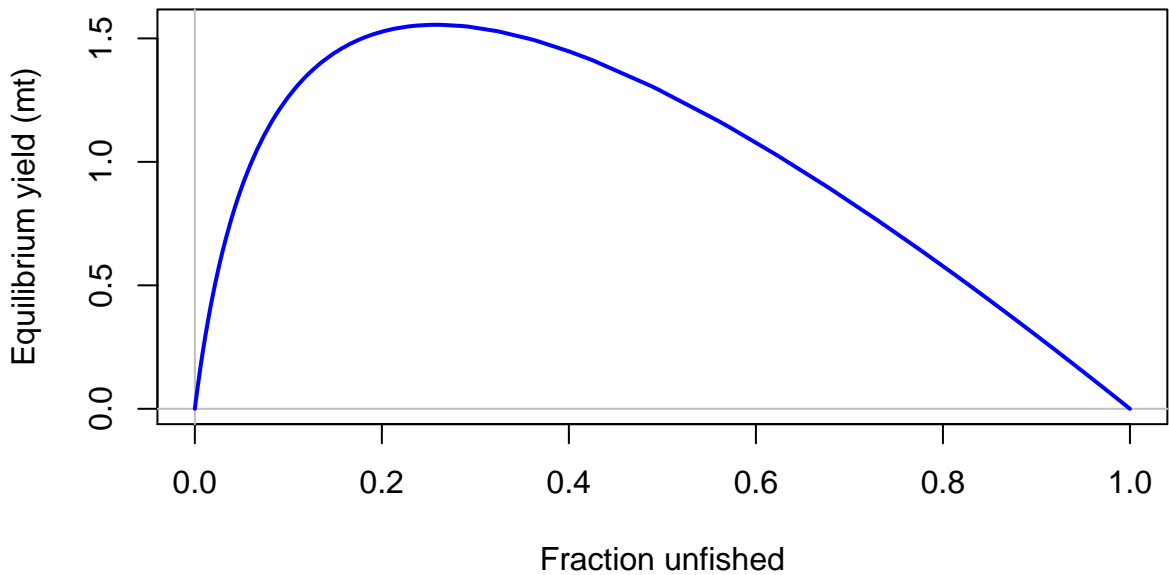


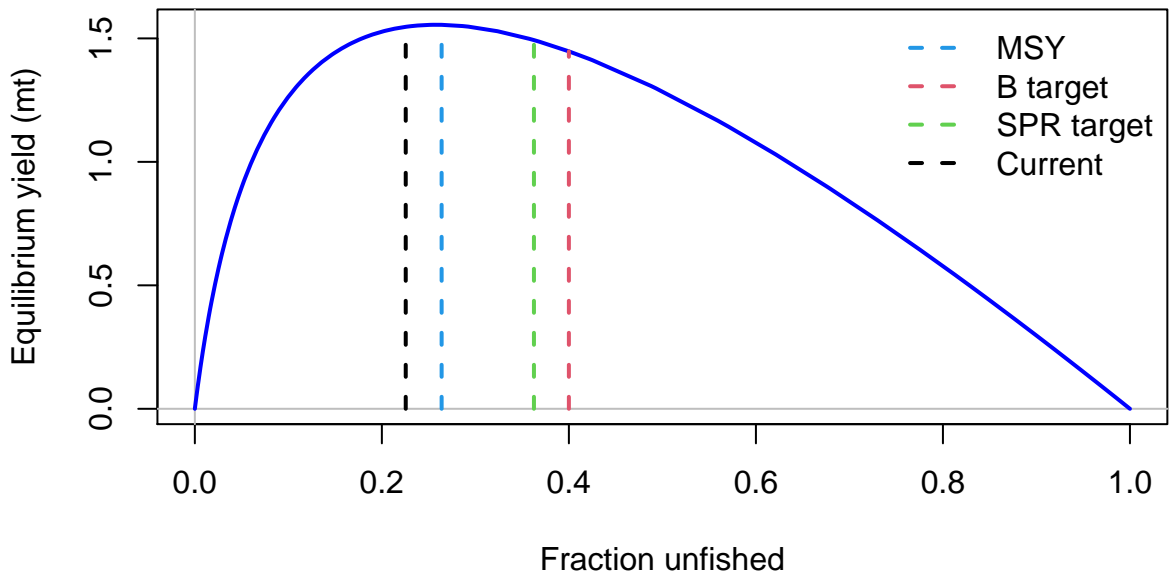
Effective sample size

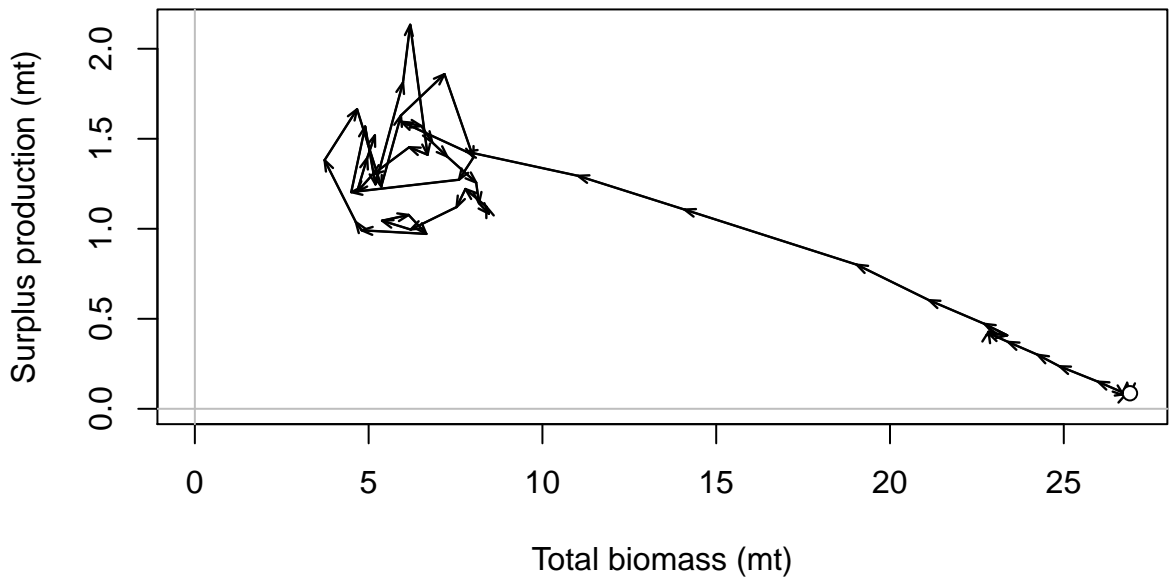


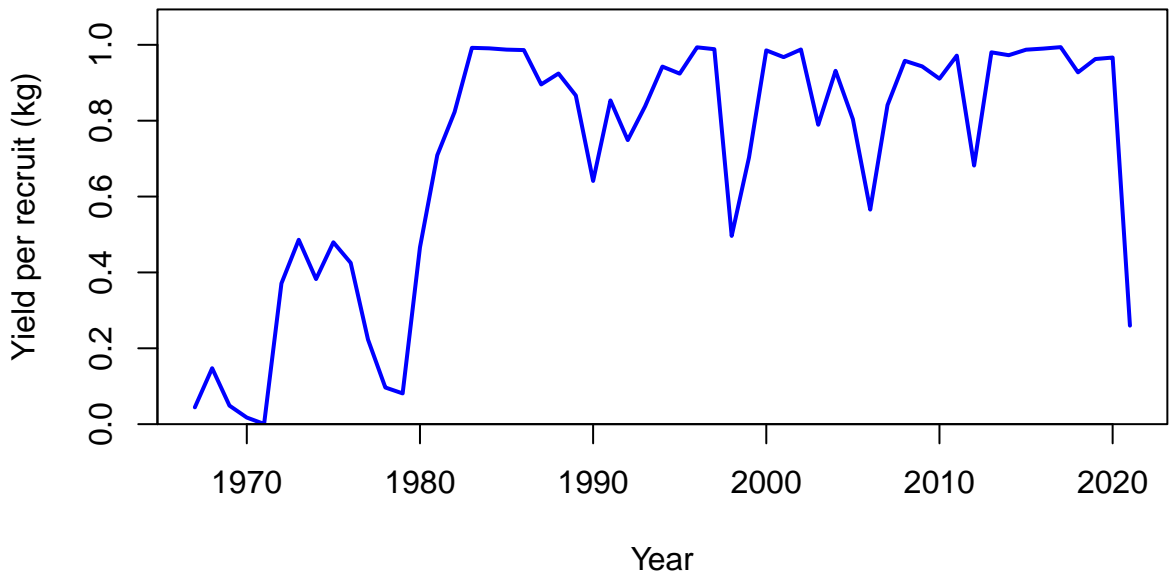
FISHERY (whole catch)

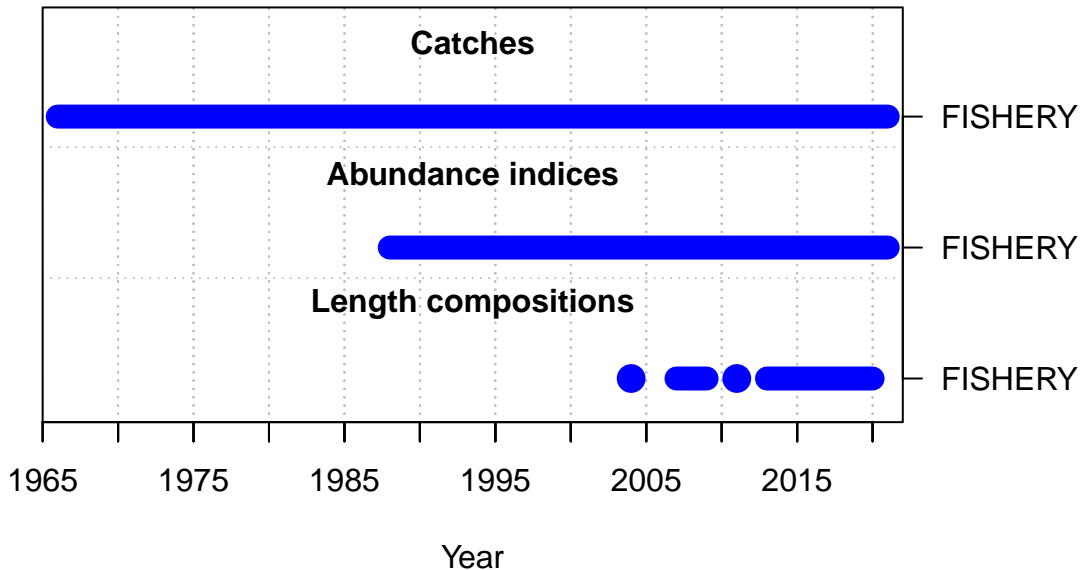


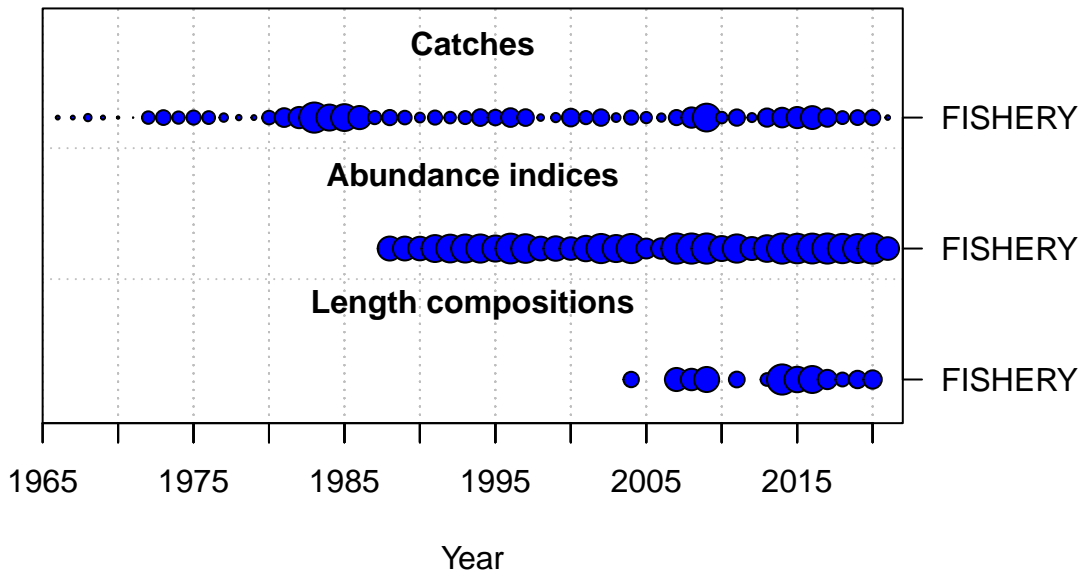








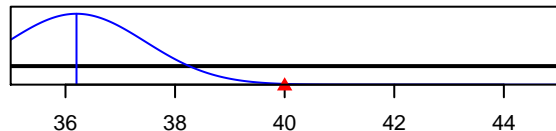




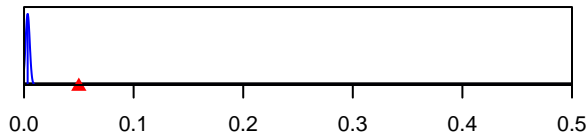
SR_LN(R0)



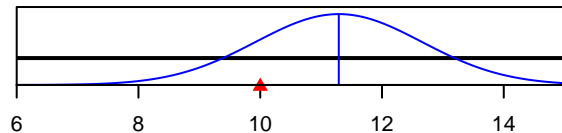
Size_inflection_FISHERY(1)



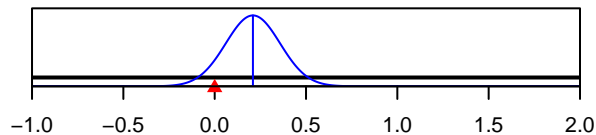
InitF_seas_1_flt_1FISHERY



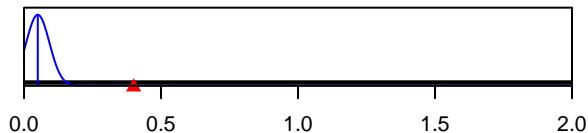
Size_95%width_FISHERY(1)



LnQ_base_FISHERY(1)



Q_extraSD_FISHERY(1)



Parameter value