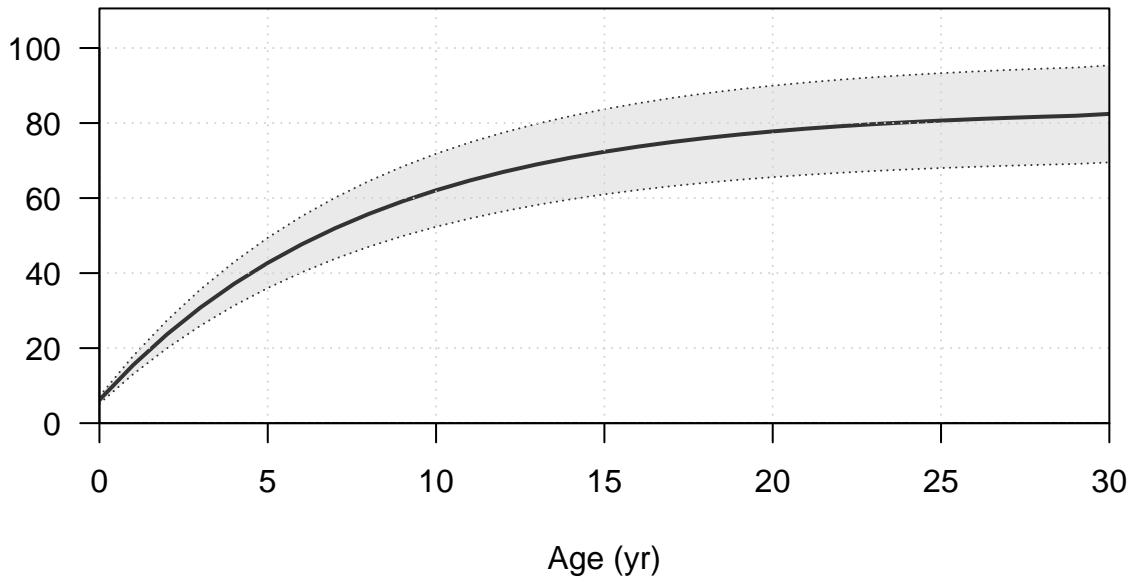
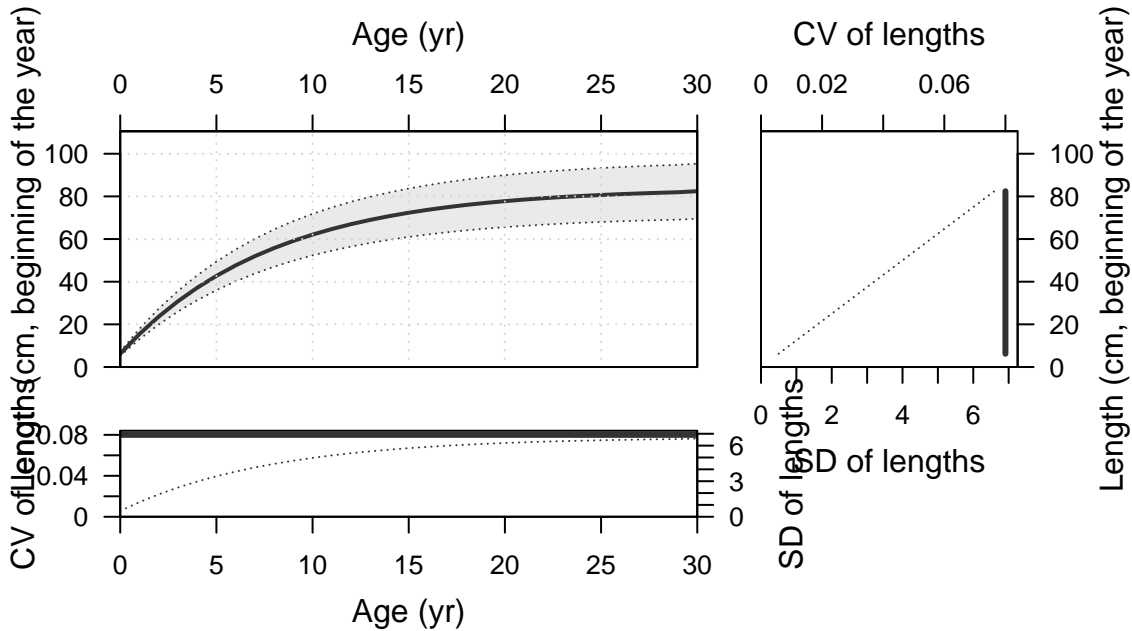
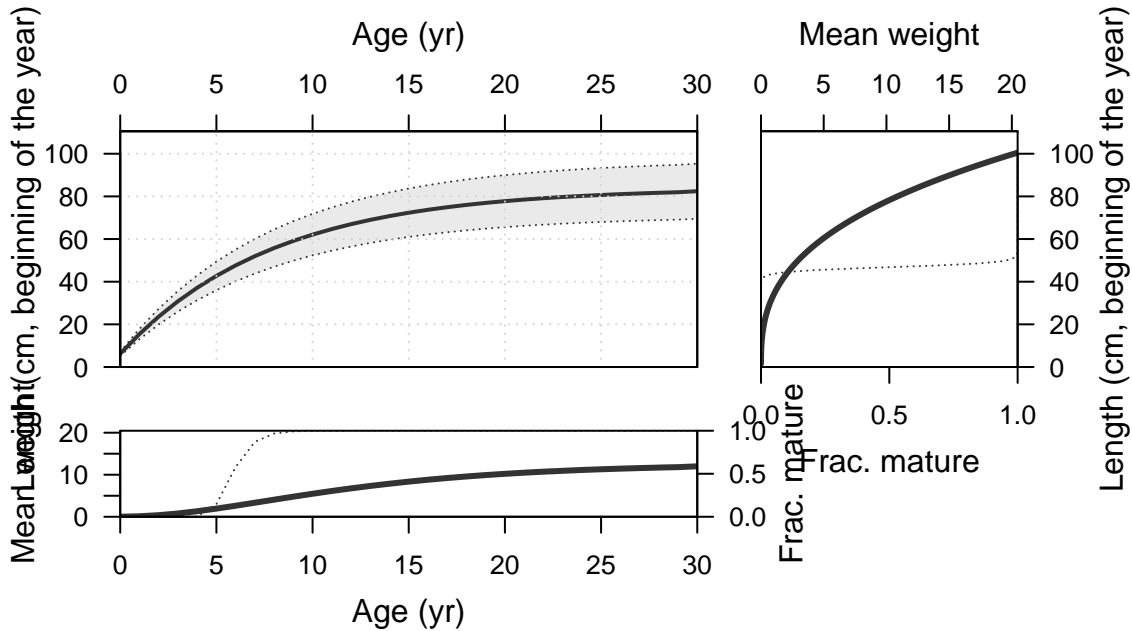


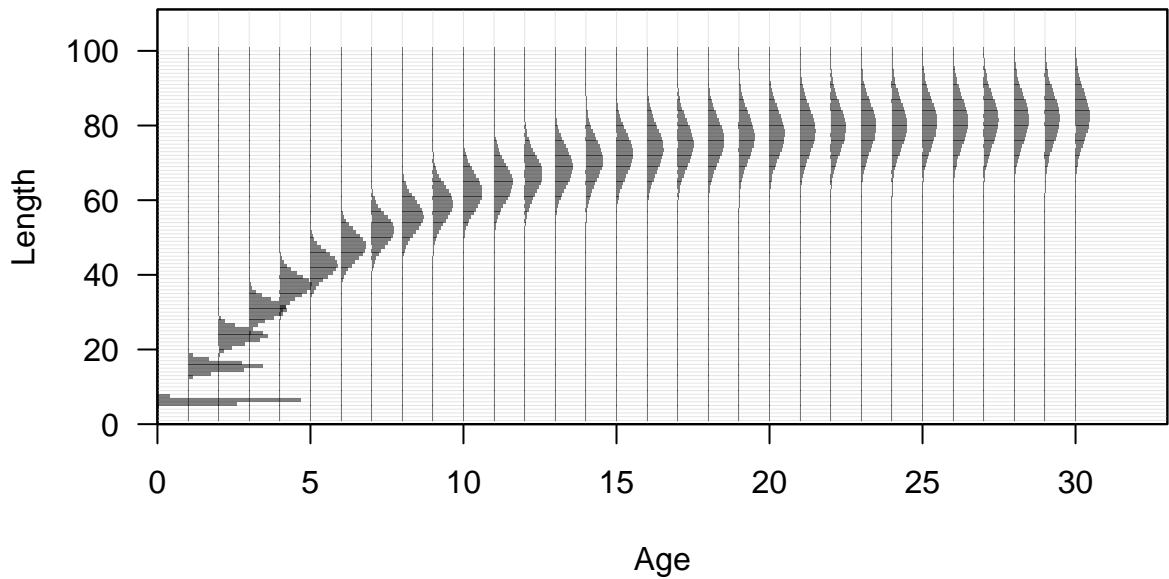
Plots created using the 'r4ss' package in R
Stock Synthesis version: 3.30.19.0
StartTime: Tue Aug 02 12:43:42 2022
Data_File: data.ss
Control_File: control.ss

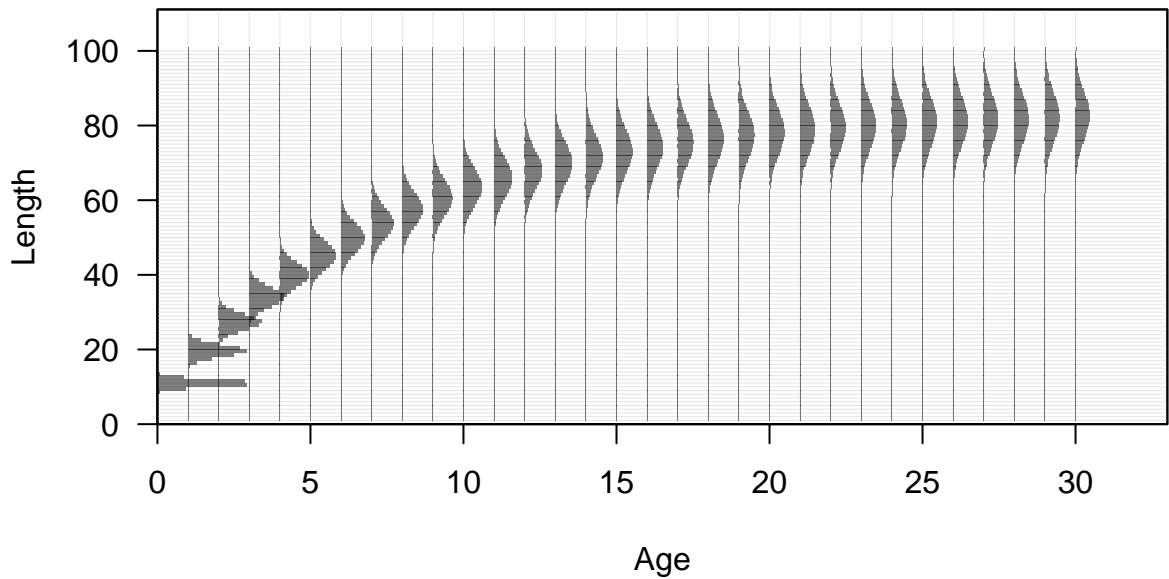
Length (cm, beginning of the year)

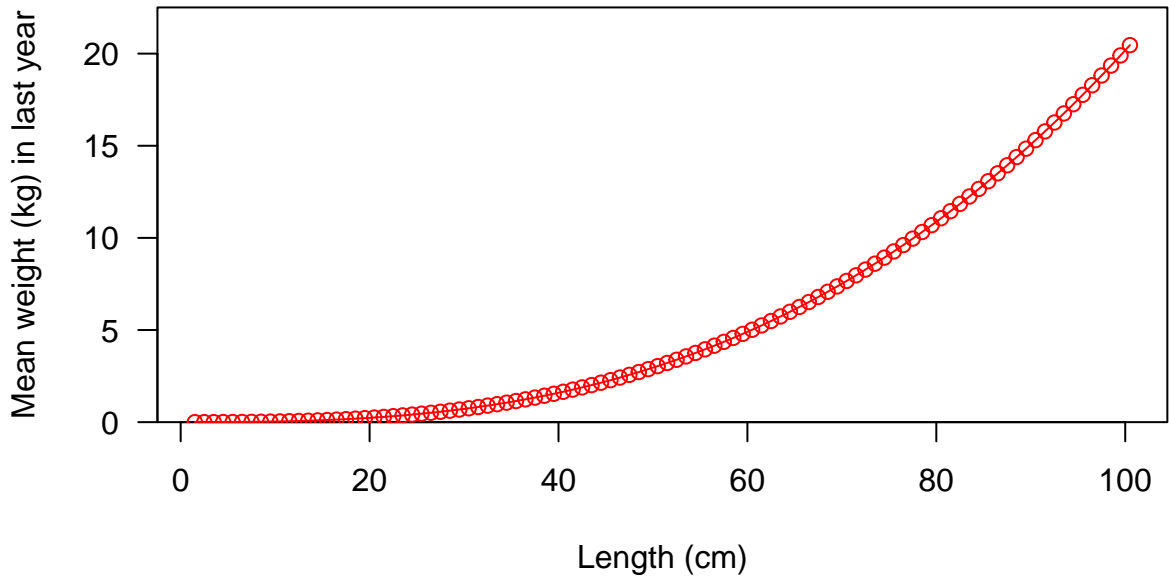


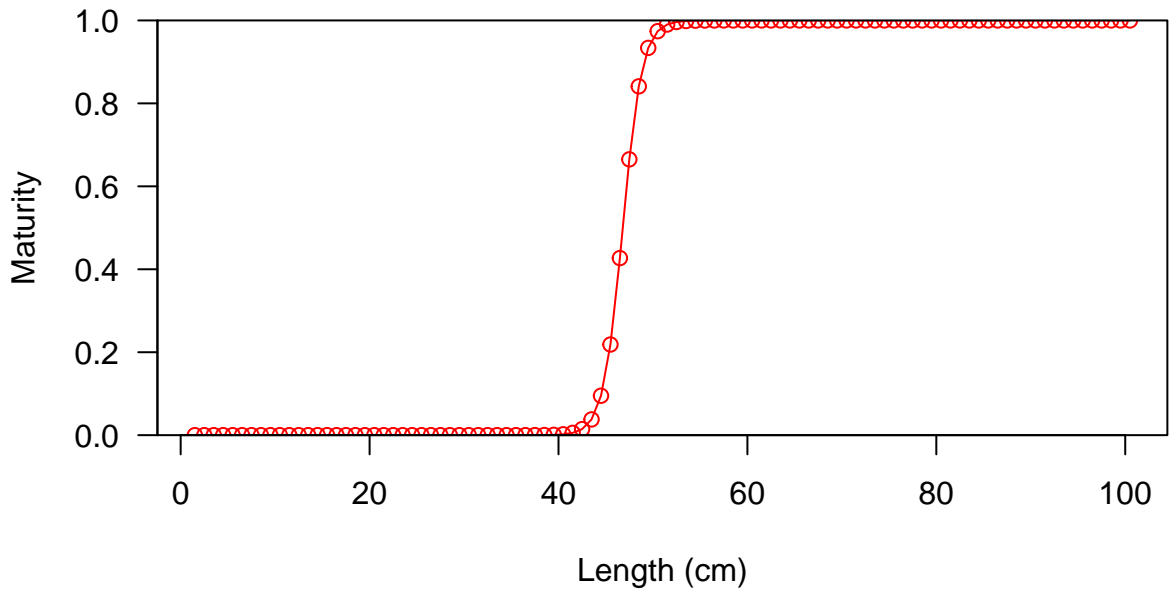


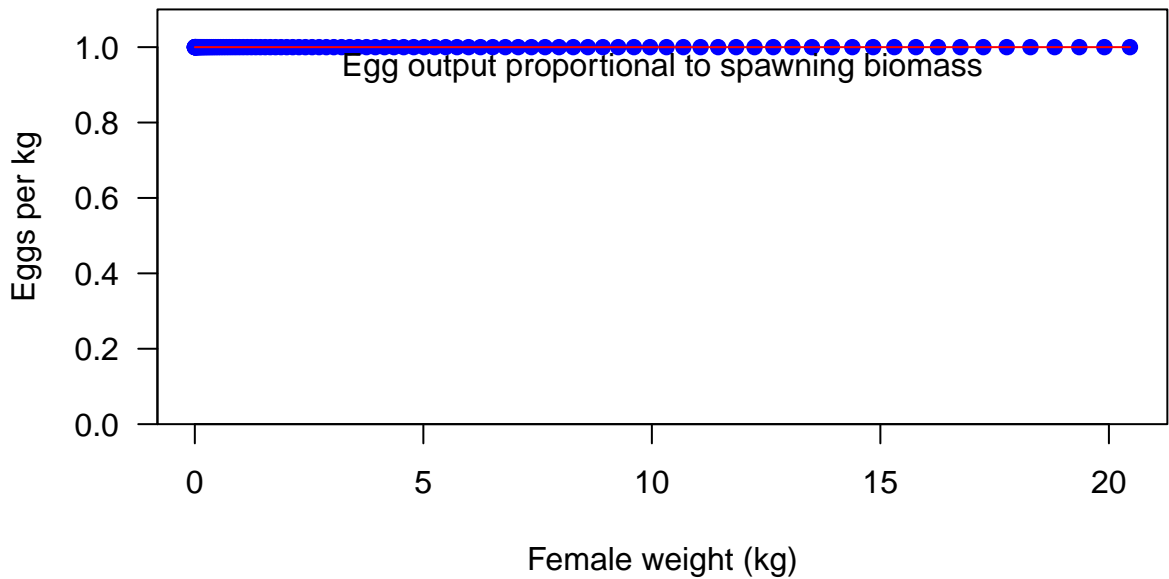




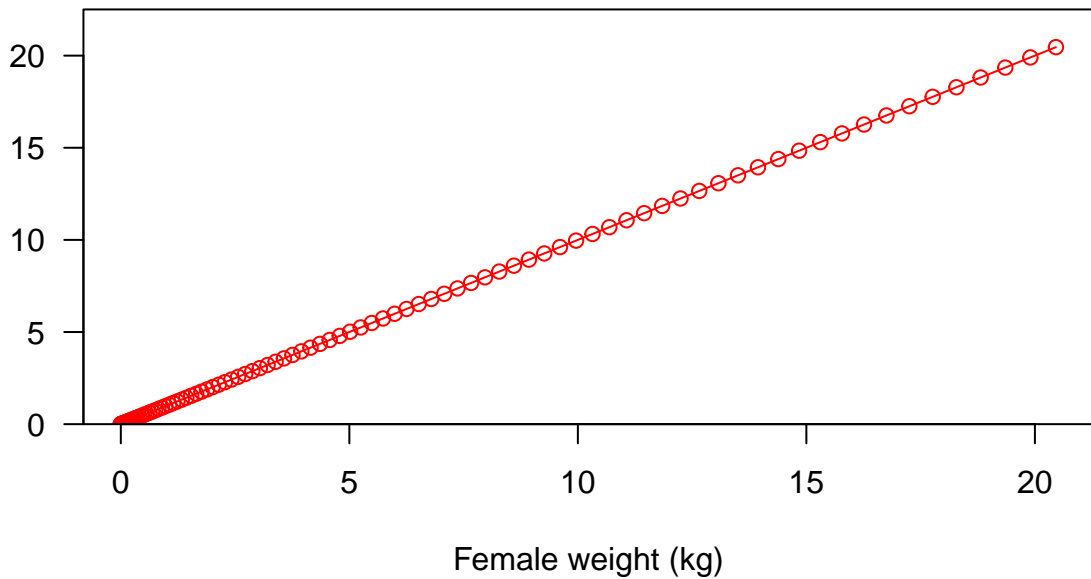








Fecundity



Fecundity

20

15

10

5

0

0

20

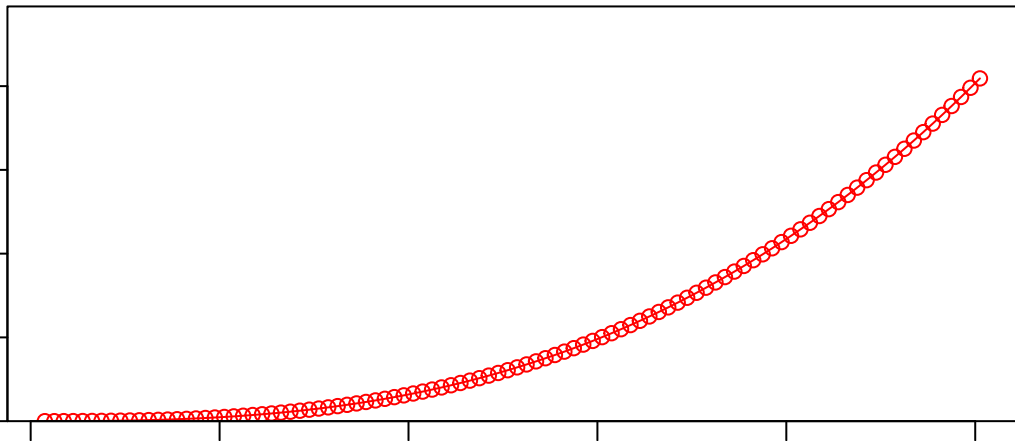
40

60

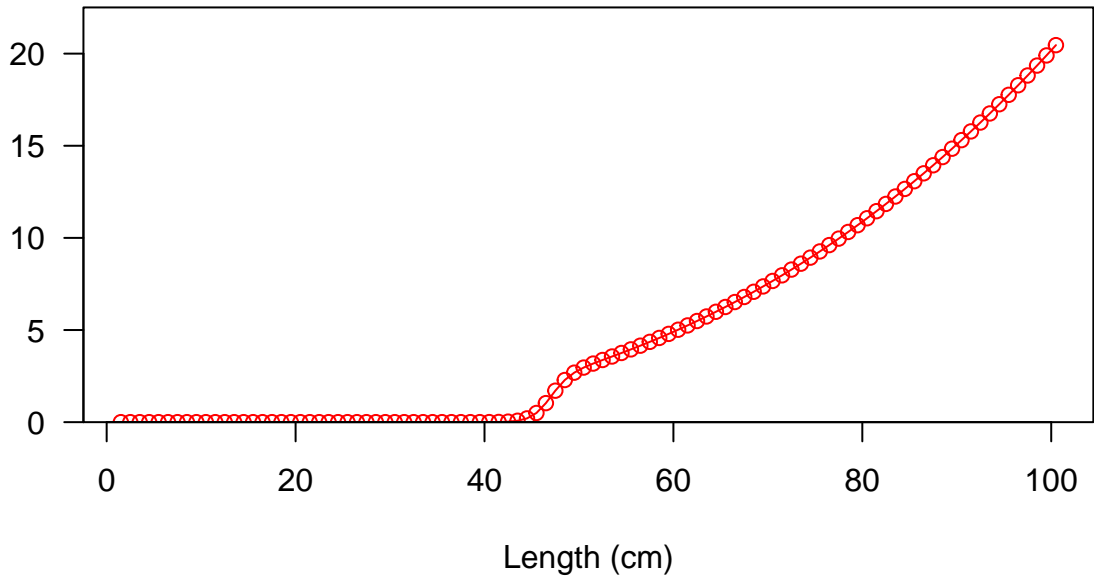
80

100

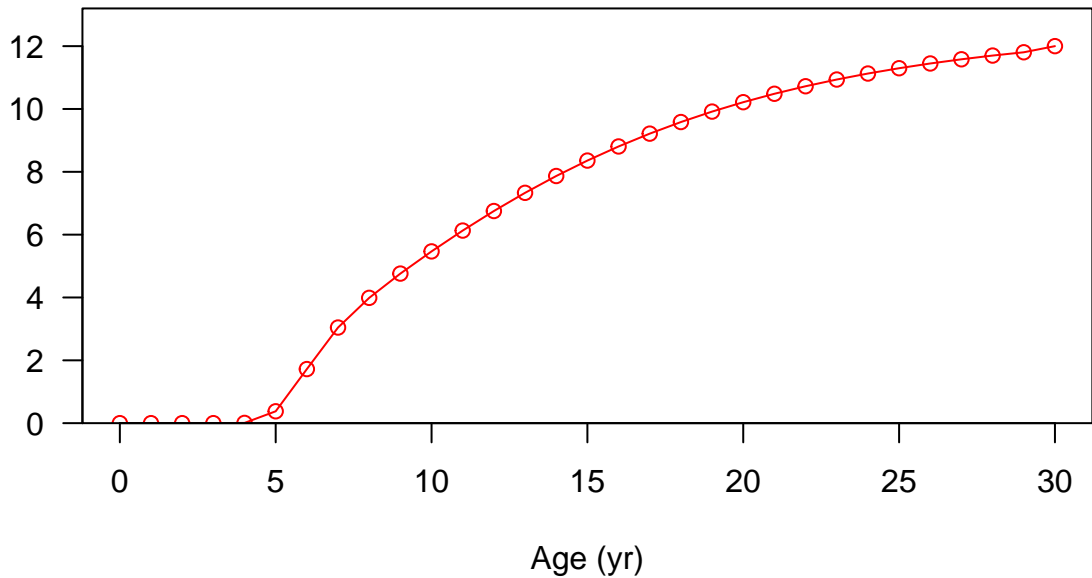
Female length (cm)



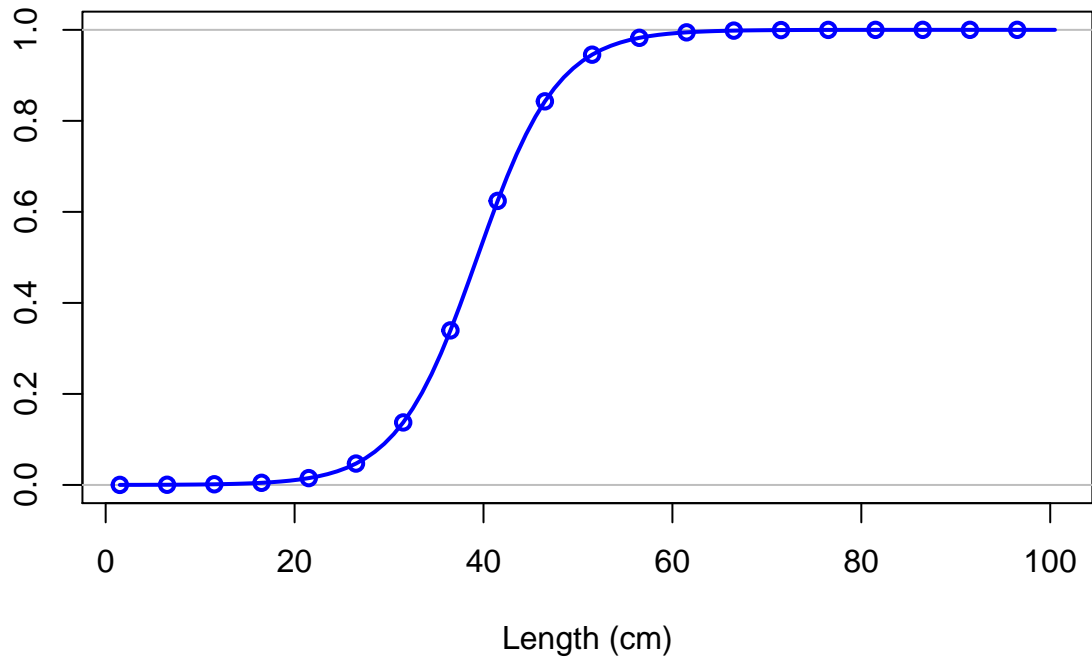
Spawning output



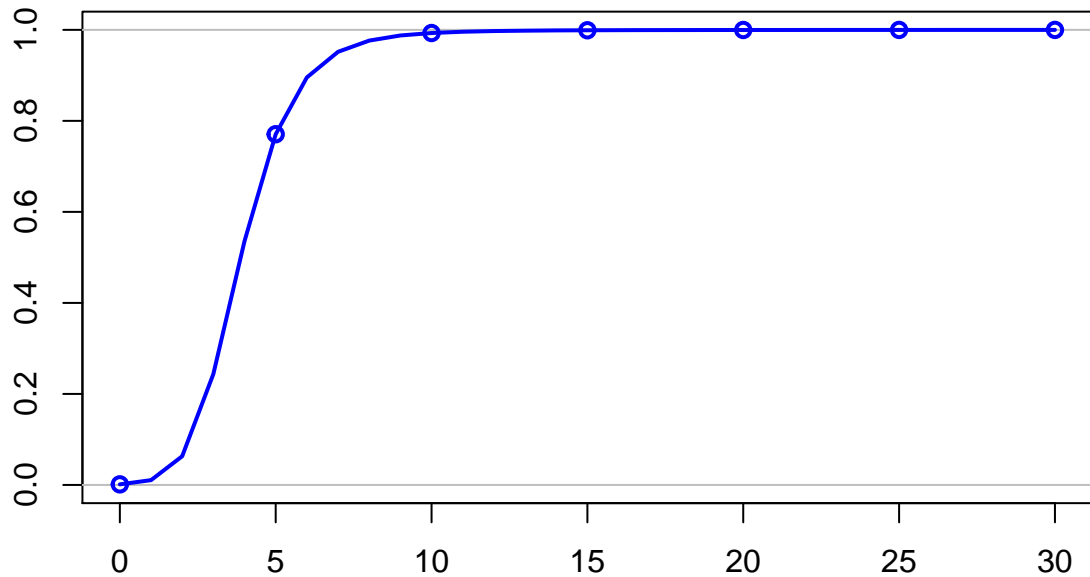
Spawning output



Selectivity

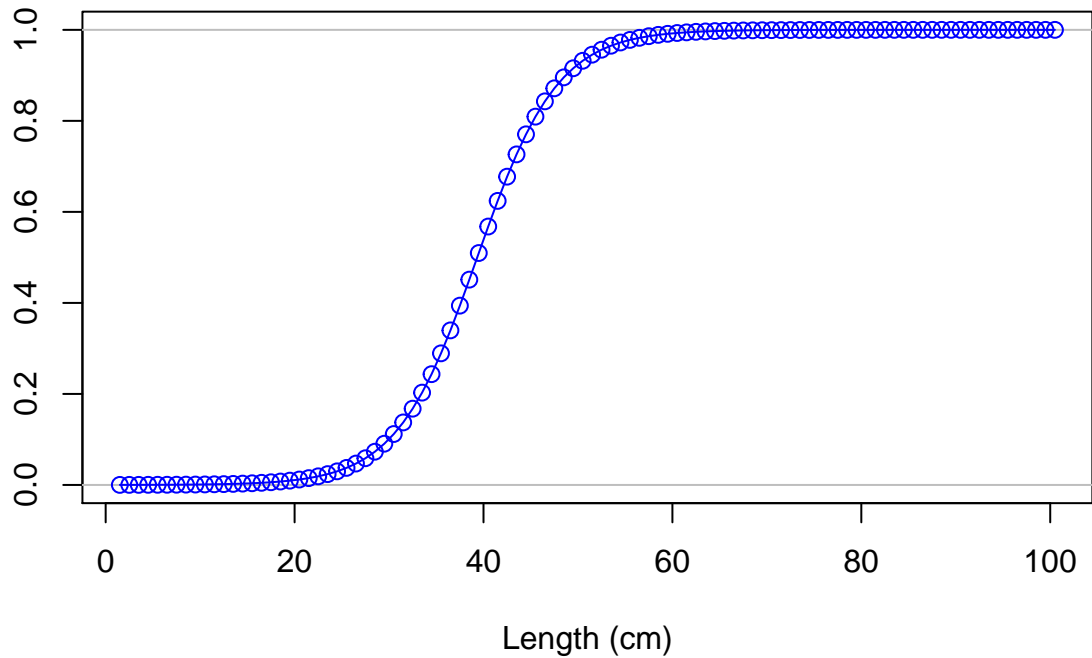


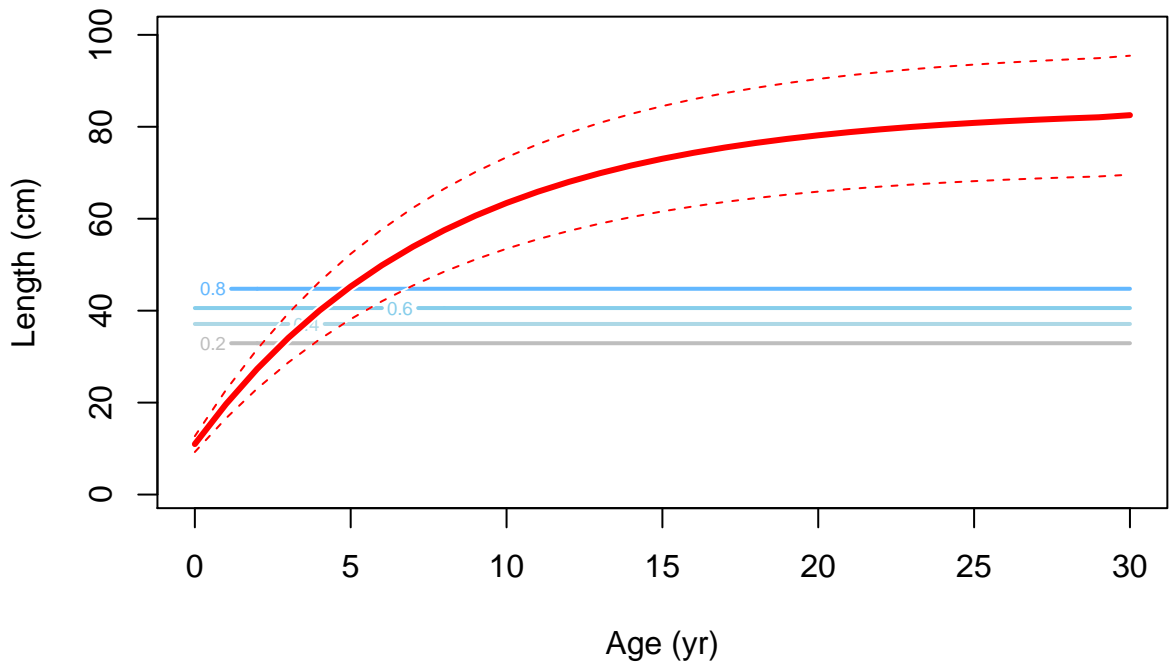
Selectivity

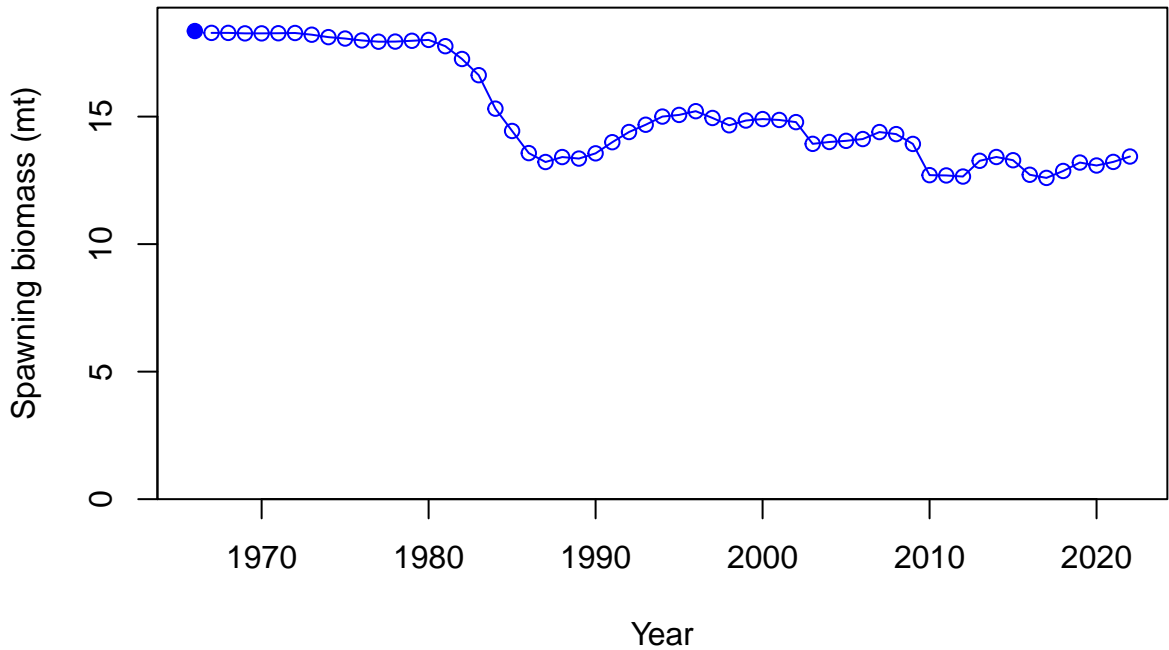


Age (yr)

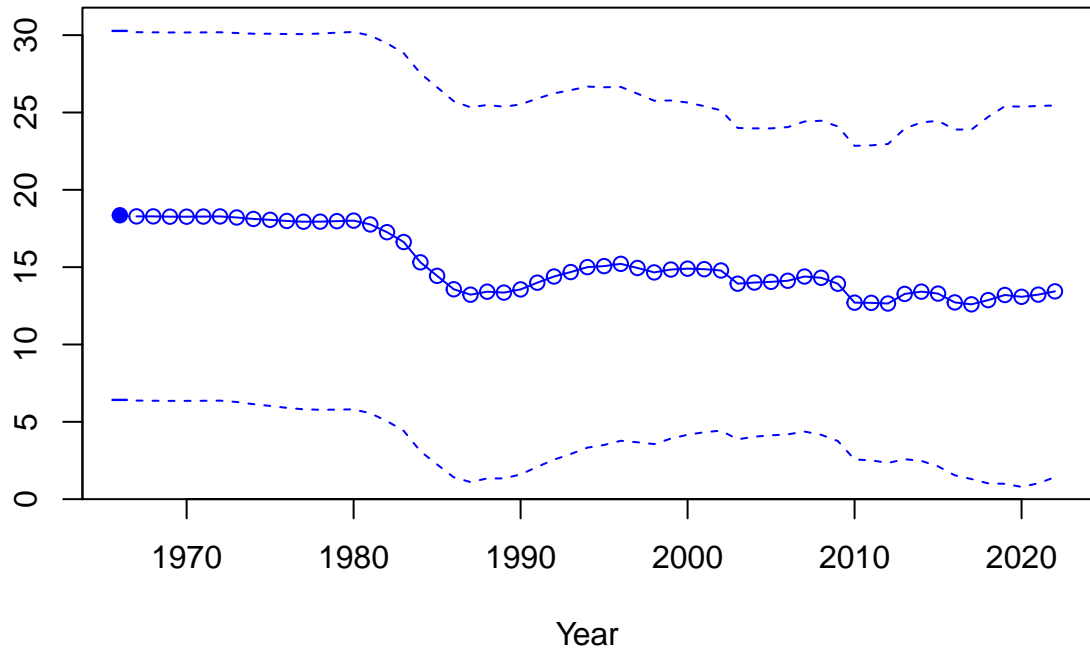
Selectivity



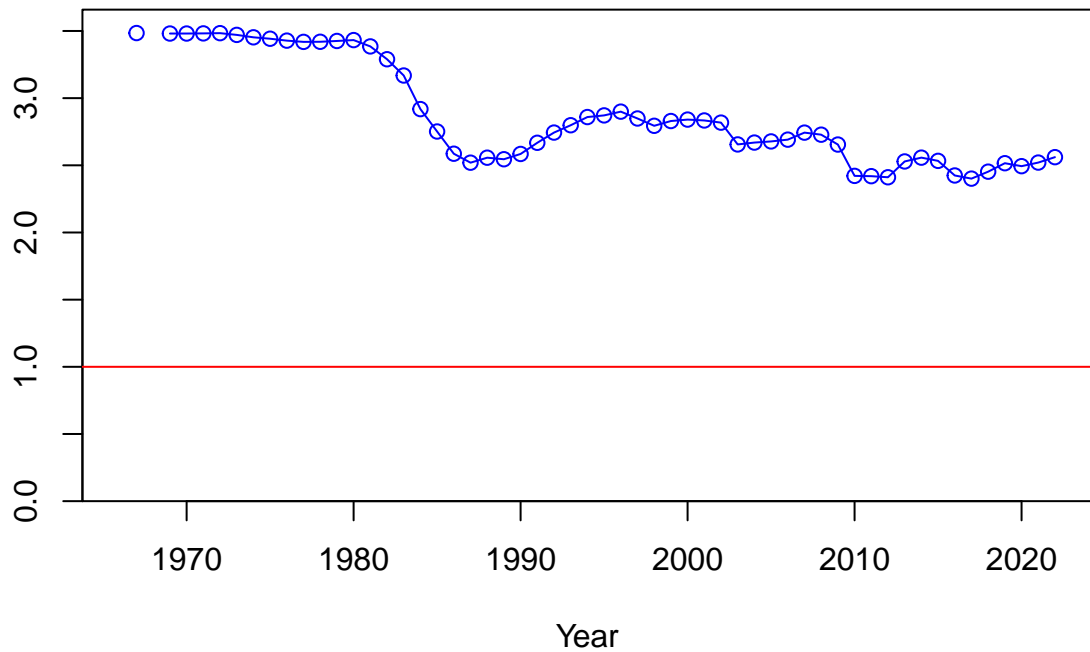




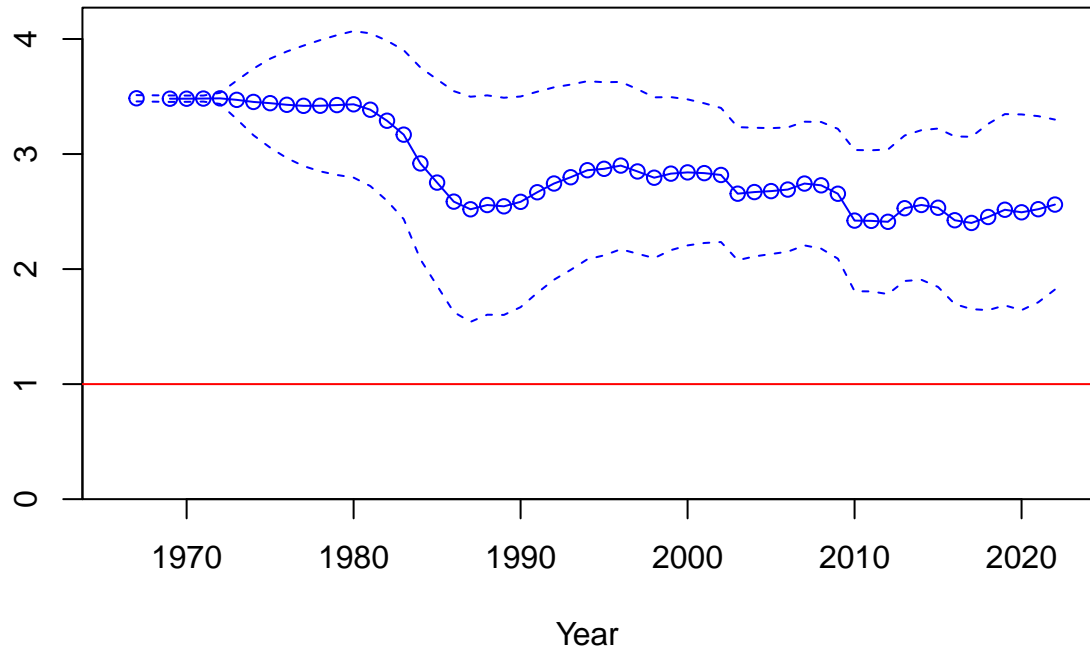
Spawning biomass (mt)

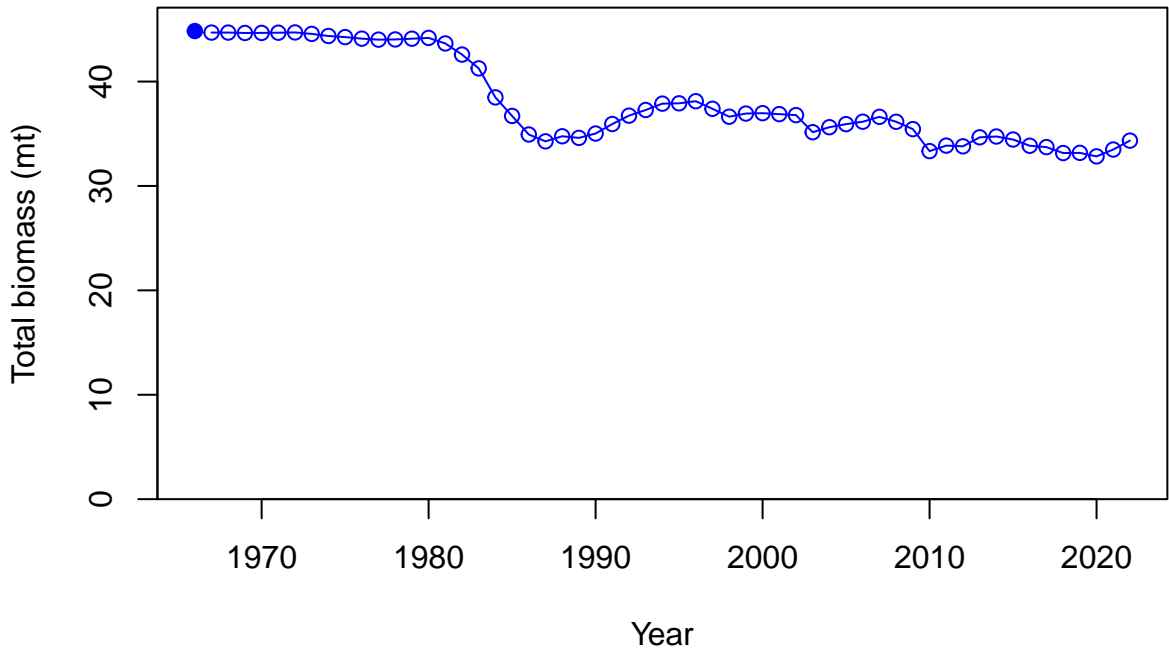


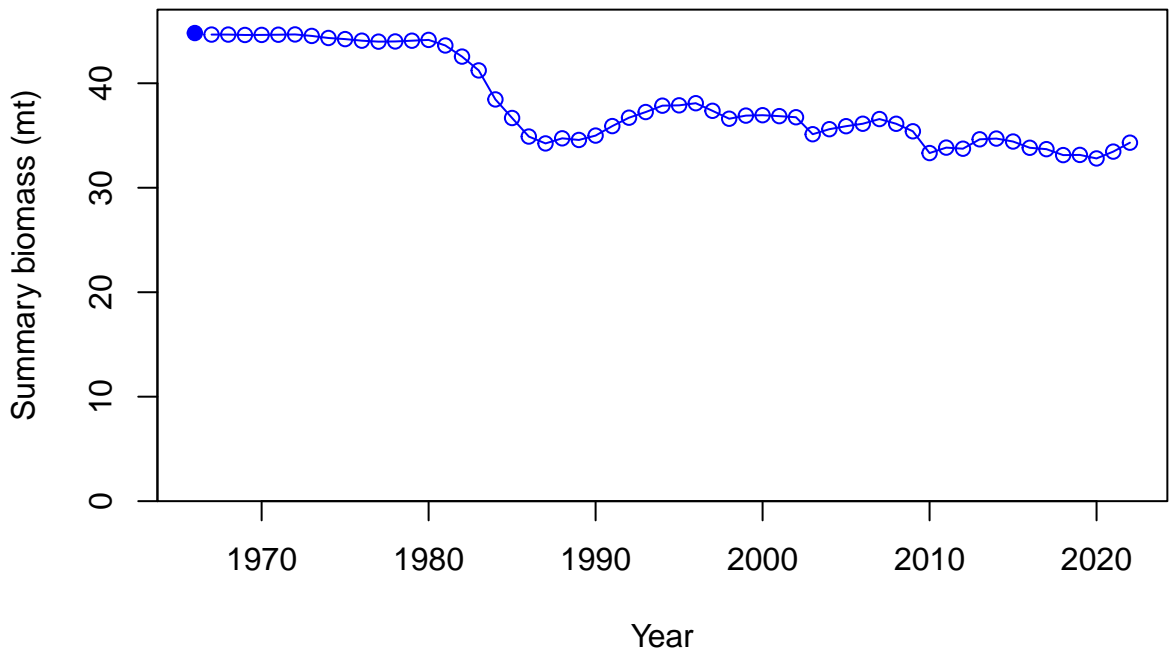
Relative spawning biomass: B/B_{MSY}



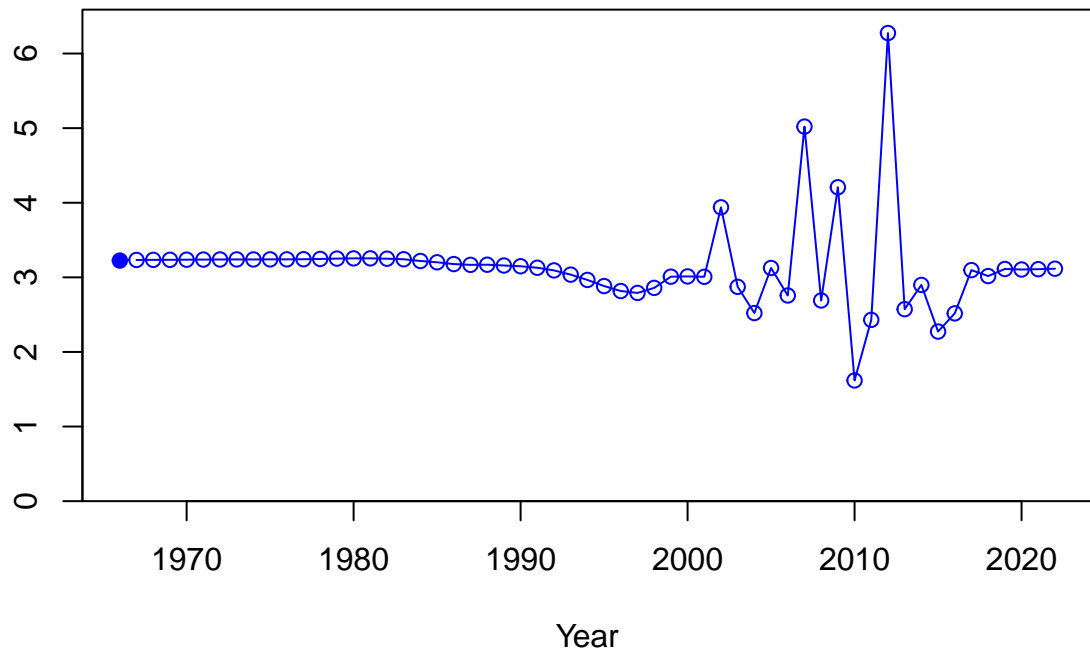
Relative spawning biomass: B/B_{MSY}



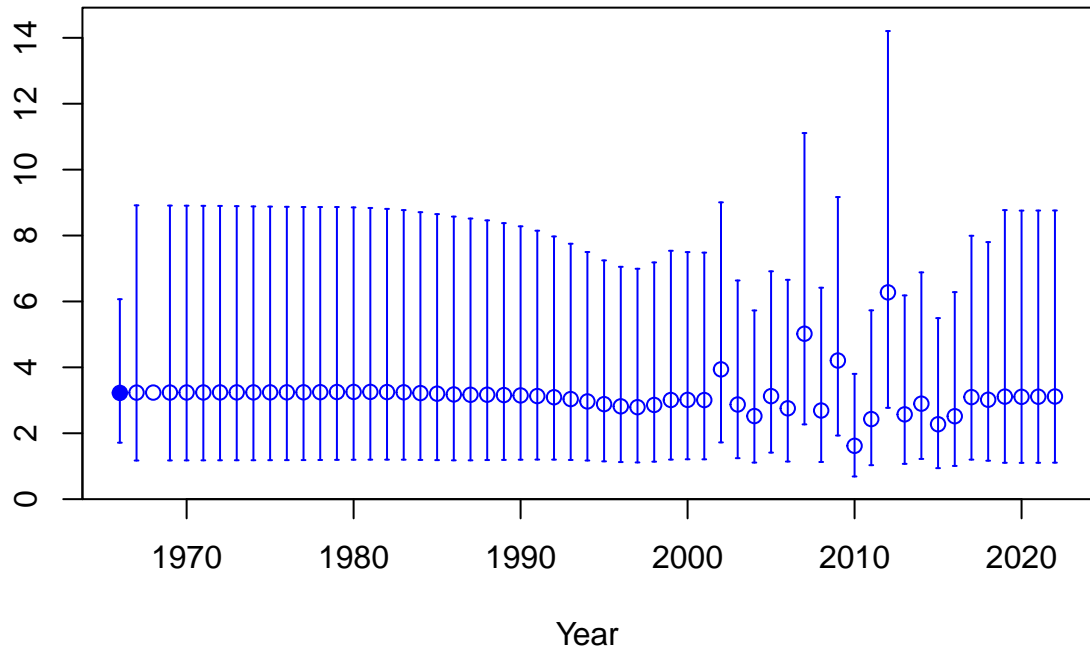




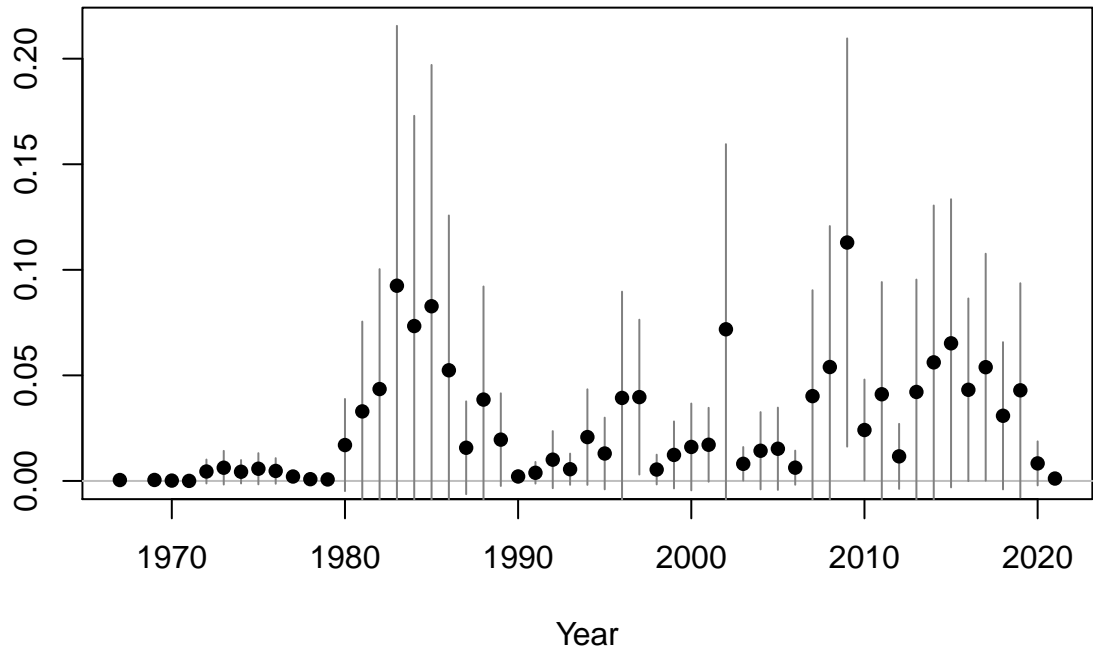
Age-0 recruits (1,000s)

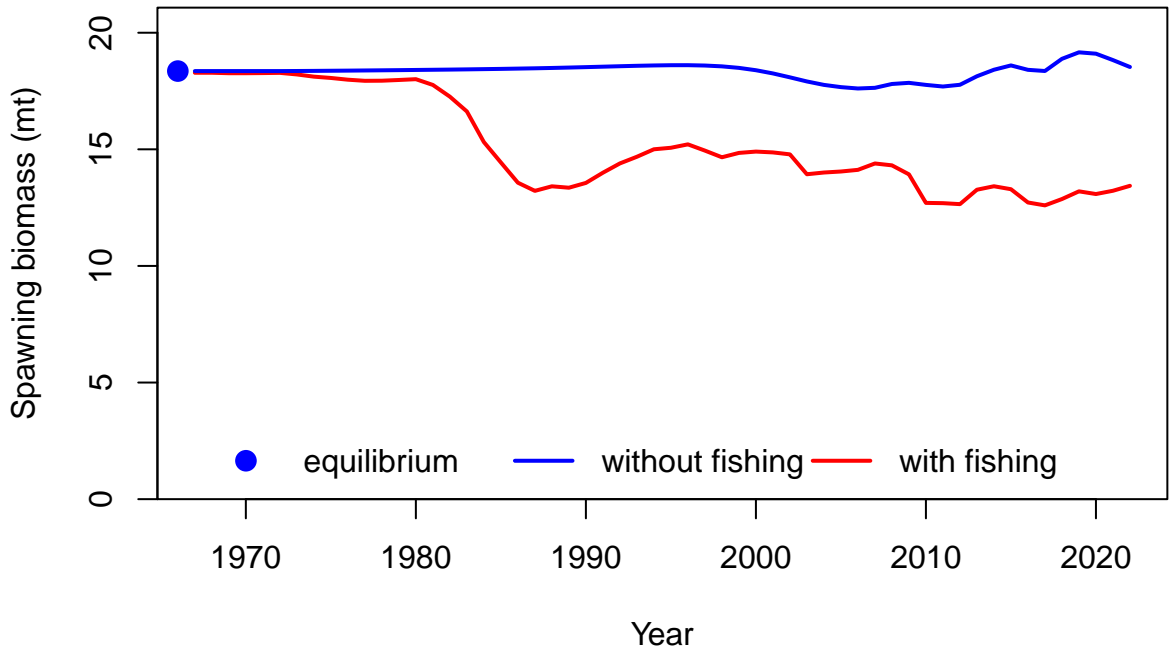


Age-0 recruits (1,000s)

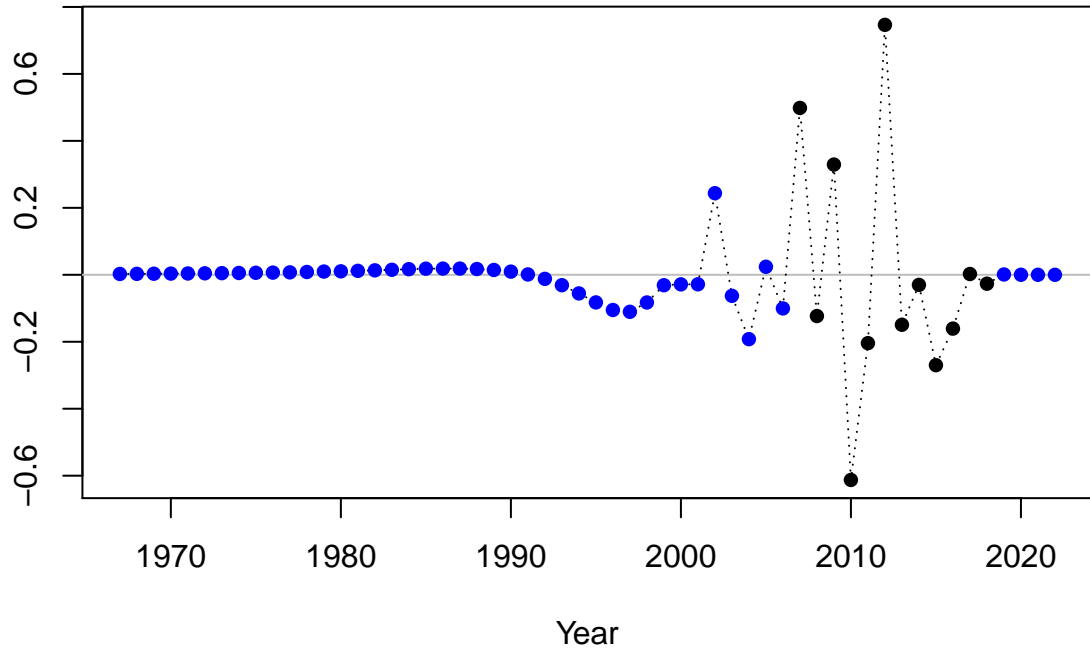


Summary Fishing Mortality

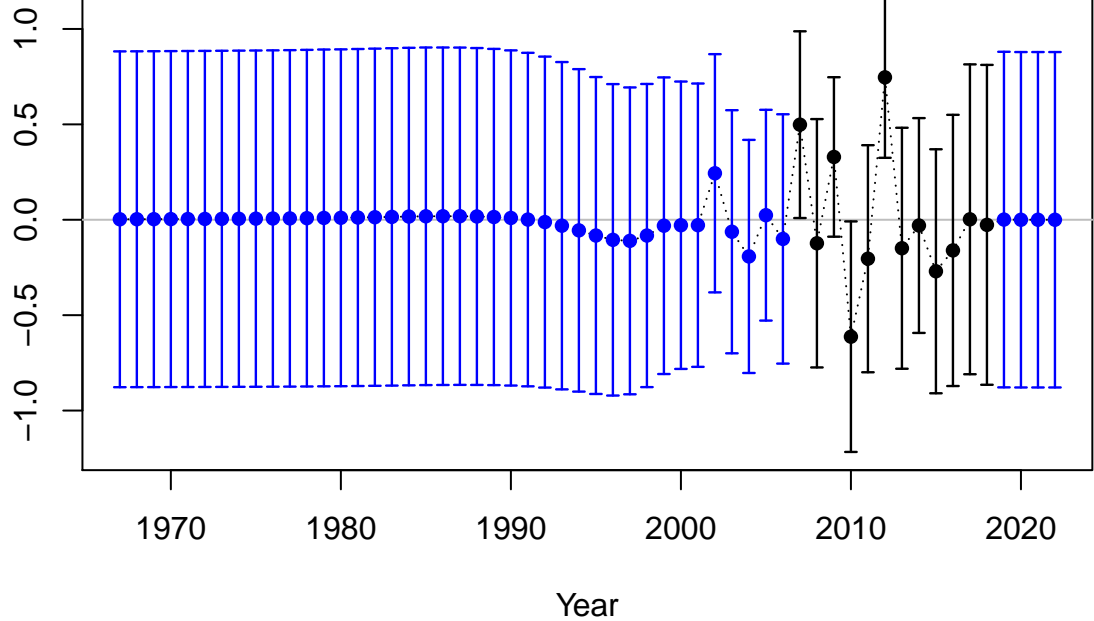




Log recruitment deviation

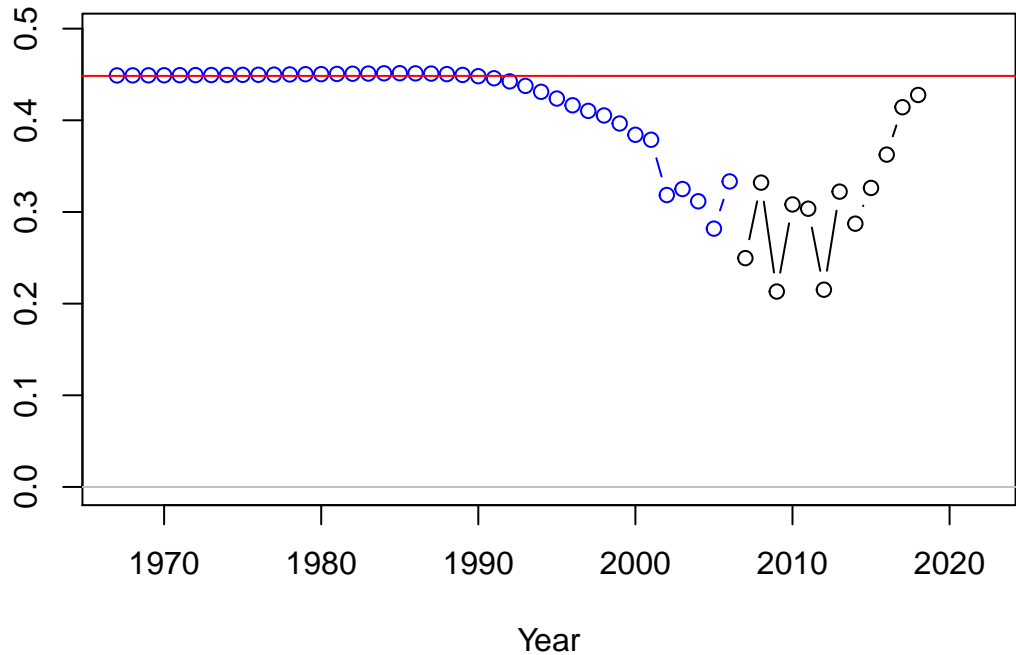


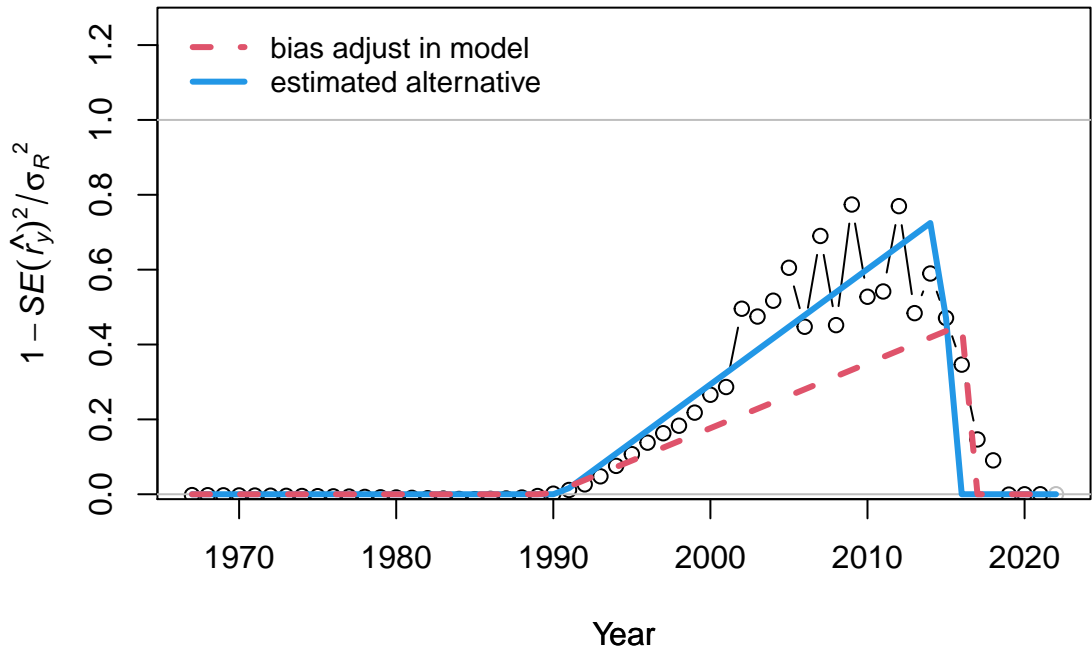
Log recruitment deviation

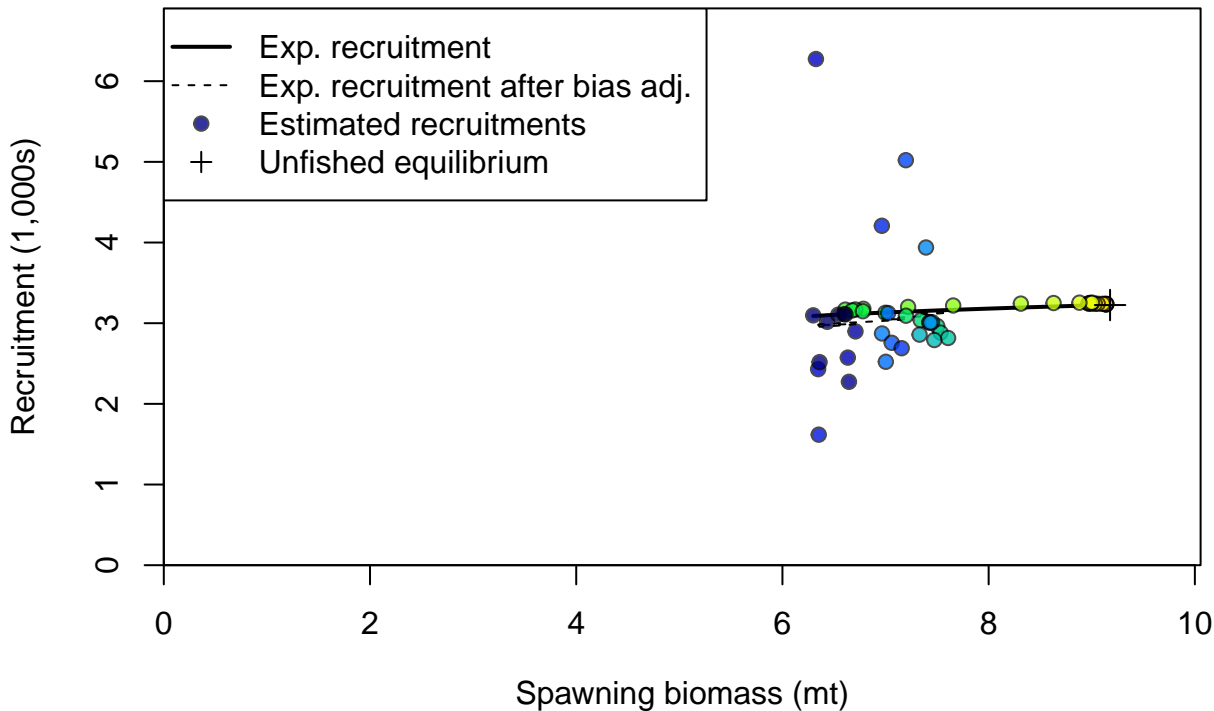


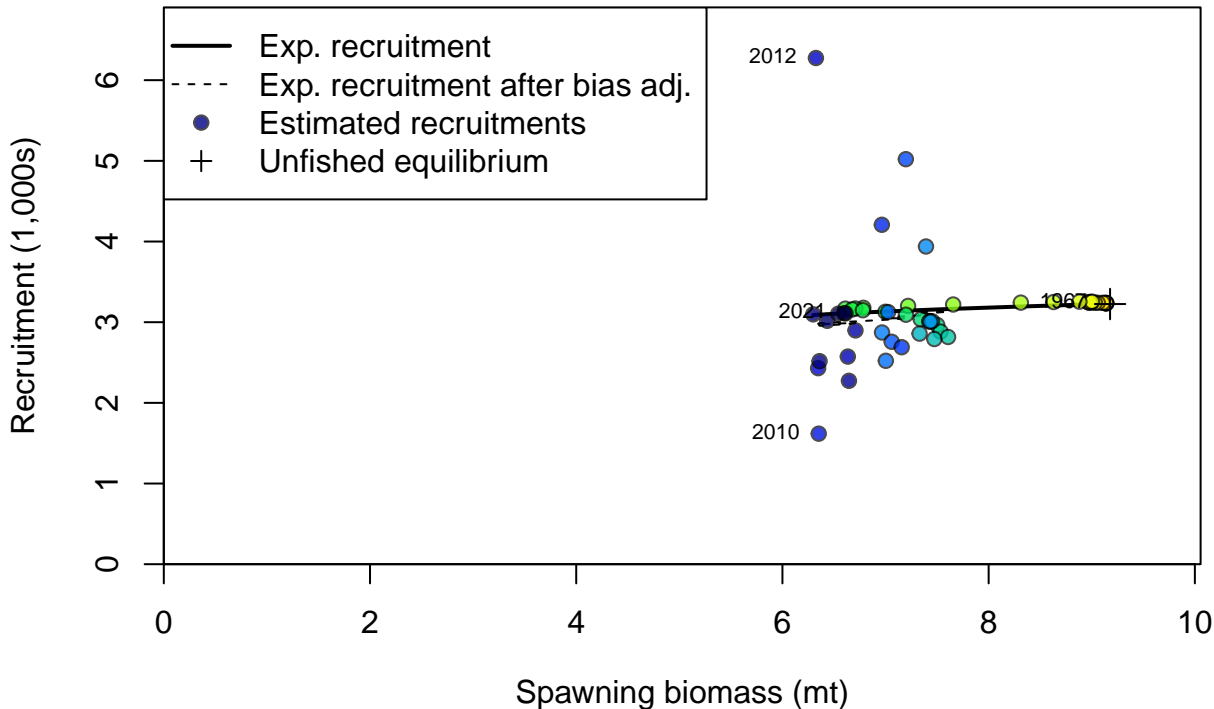
Recruitment deviation variance

Asymptotic standard error estimate









Log recruitment deviation

0.5

0.0

-0.5

0.0

0.2

0.4

0.6

0.8

1.0

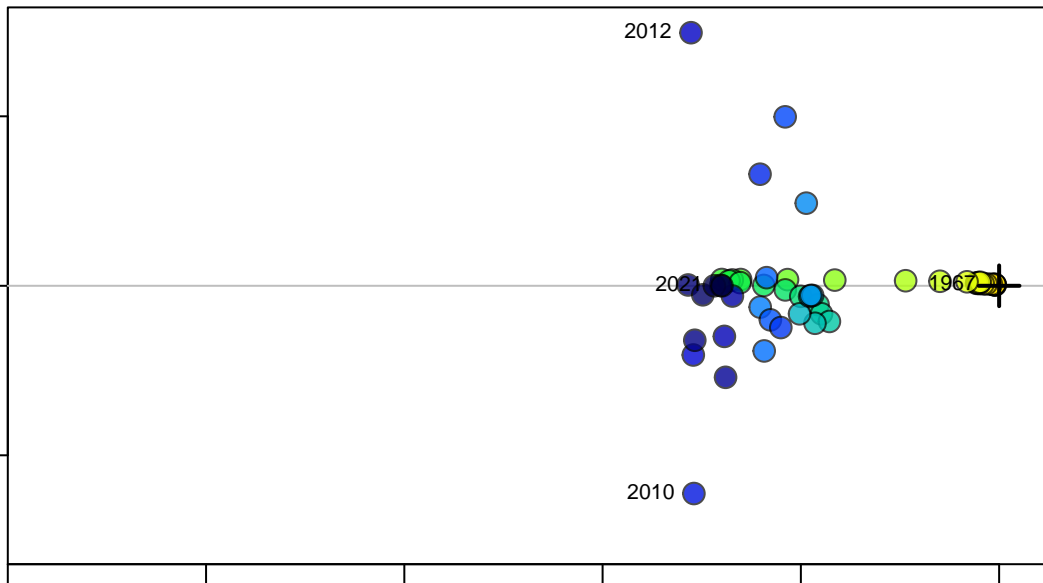
Spawning output (relative to B_0)

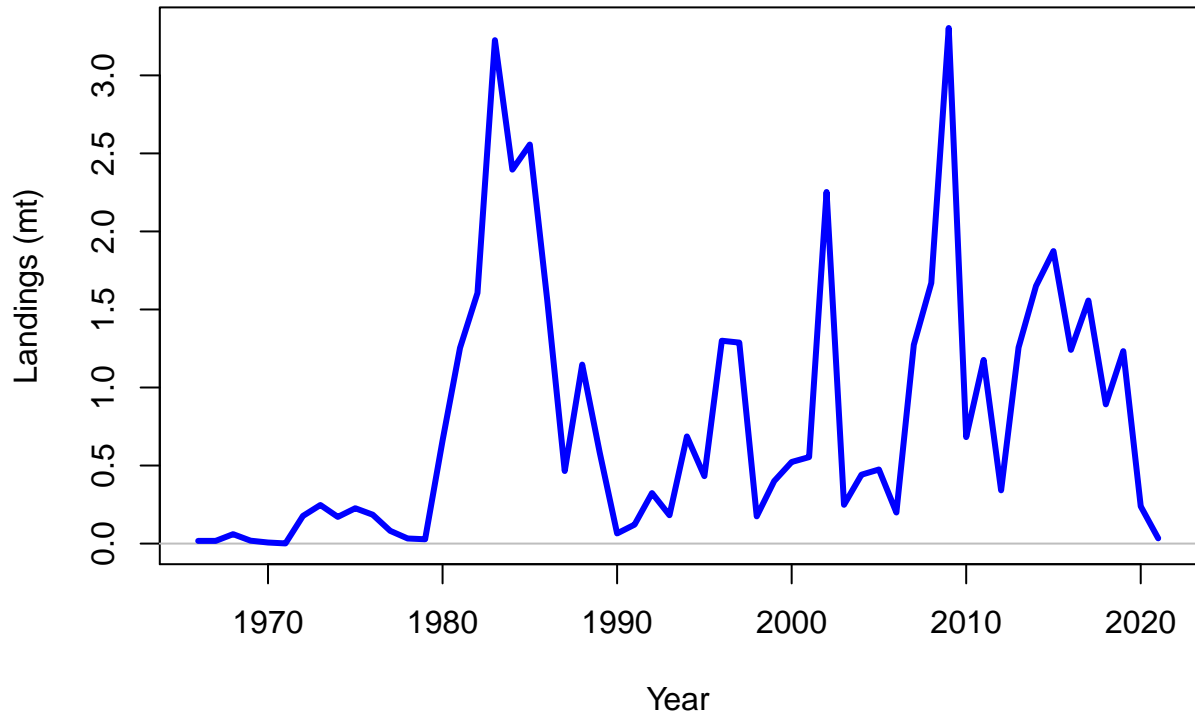
2012

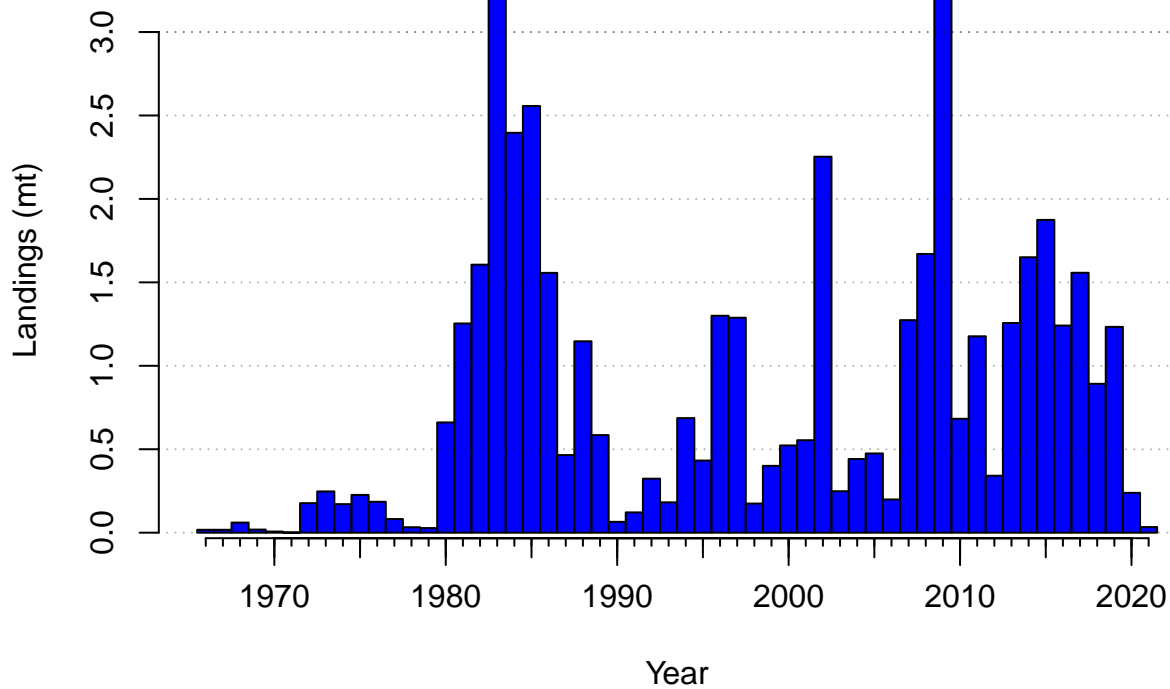
2021

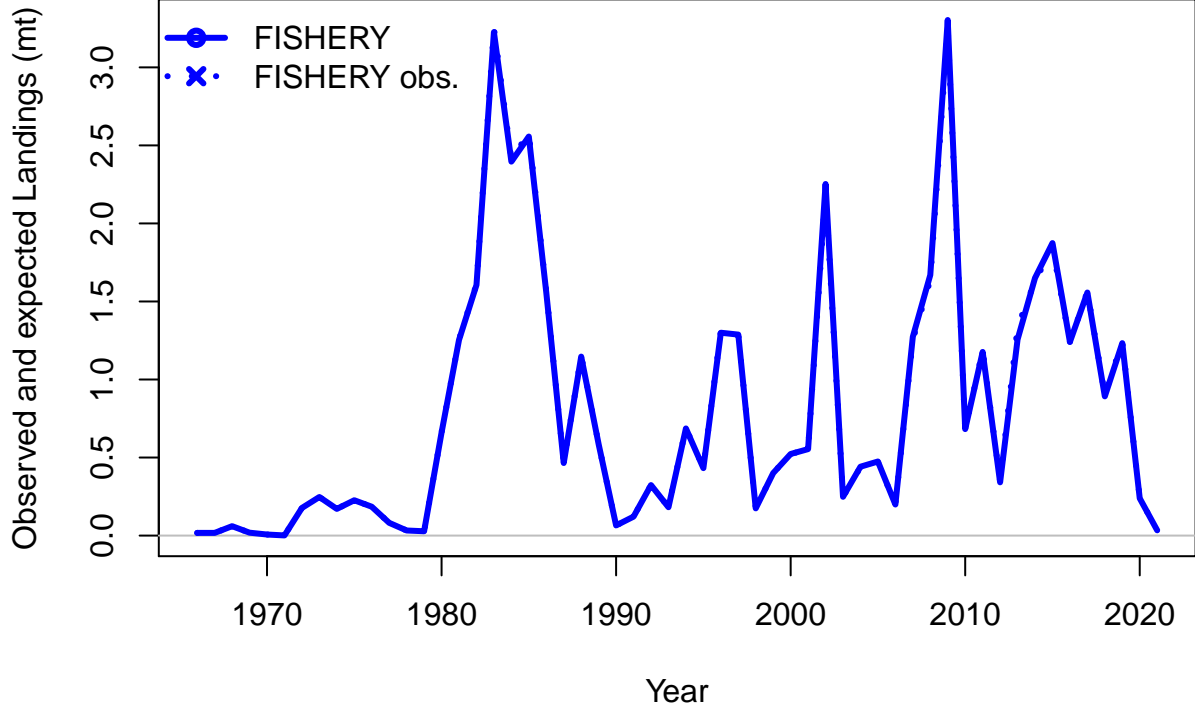
2010

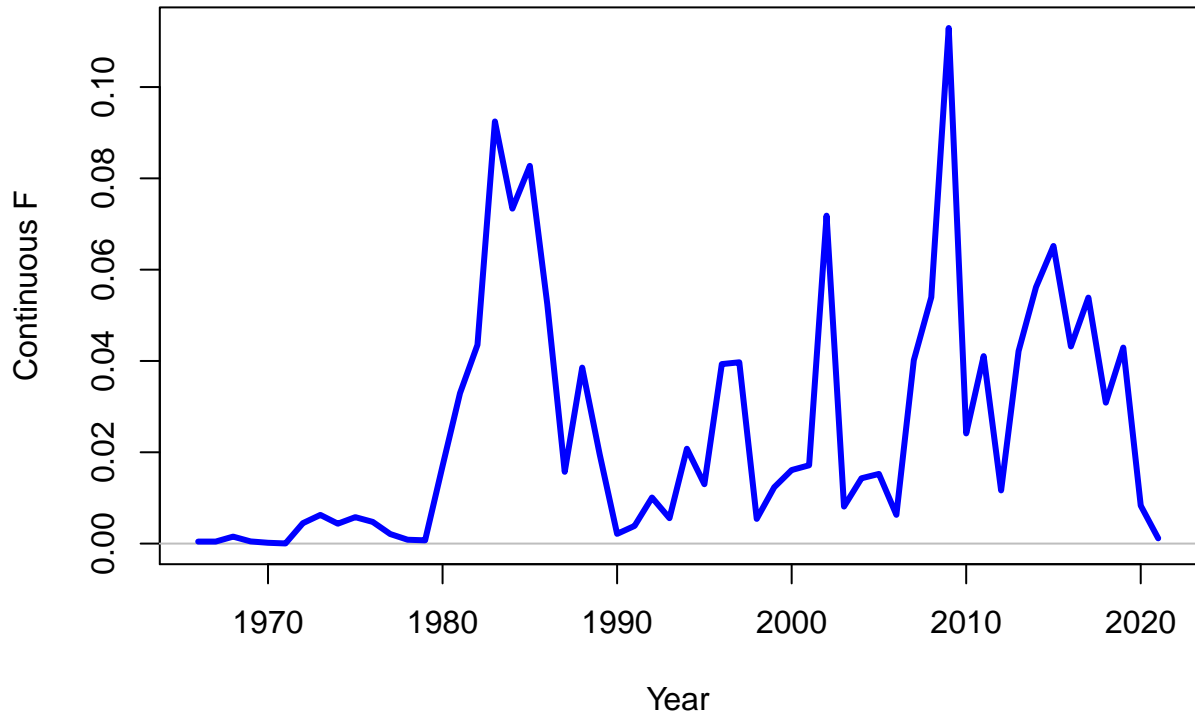
1967



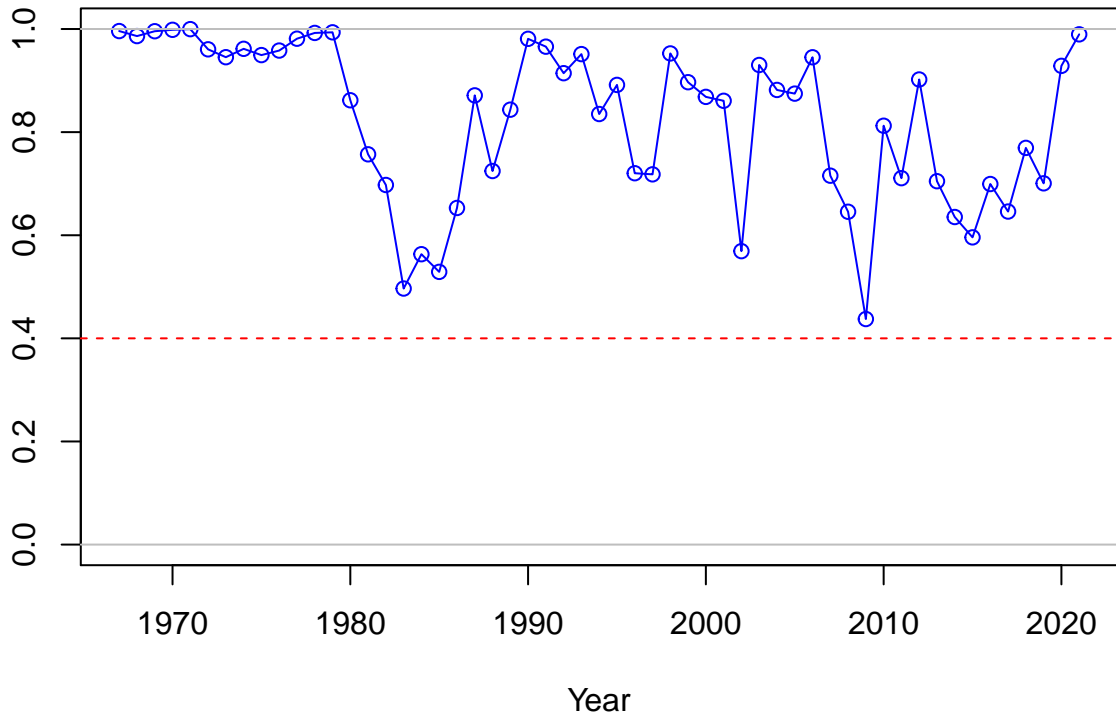


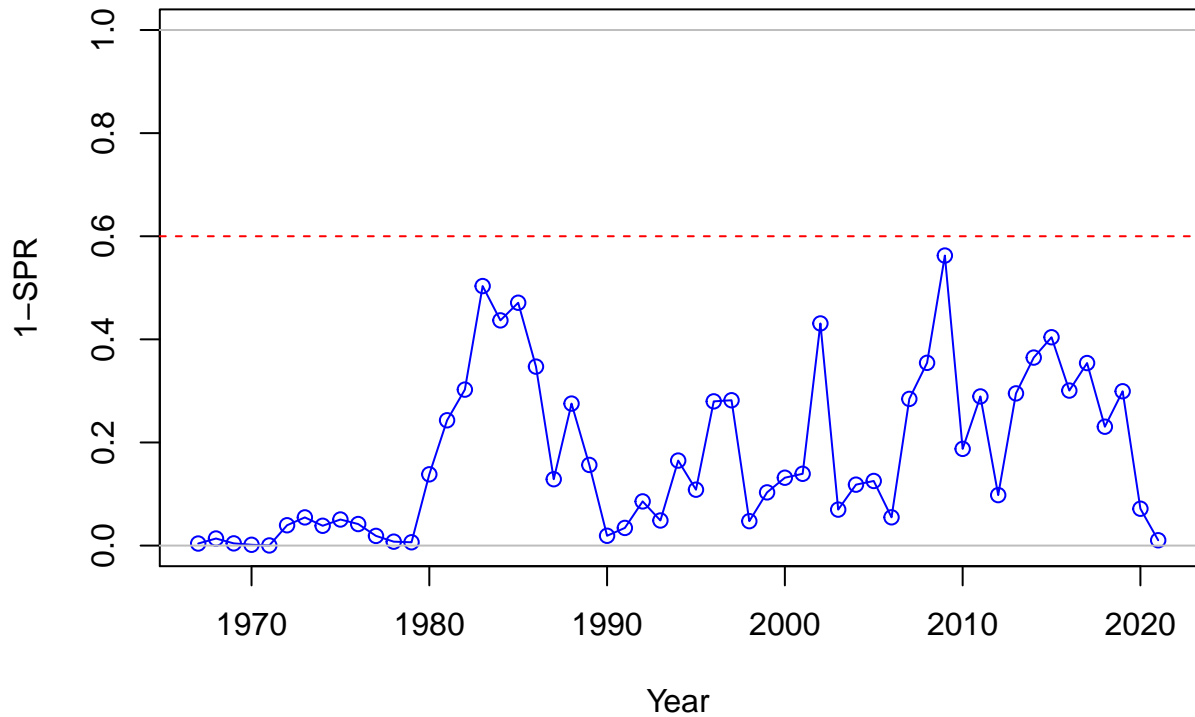




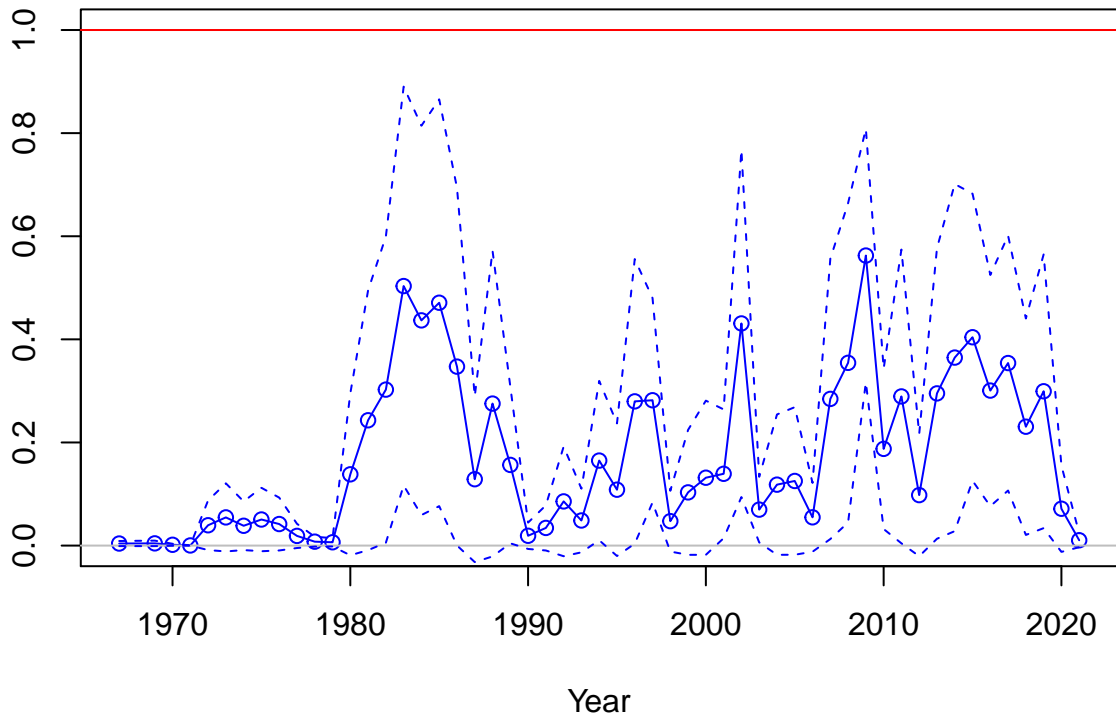


SPR

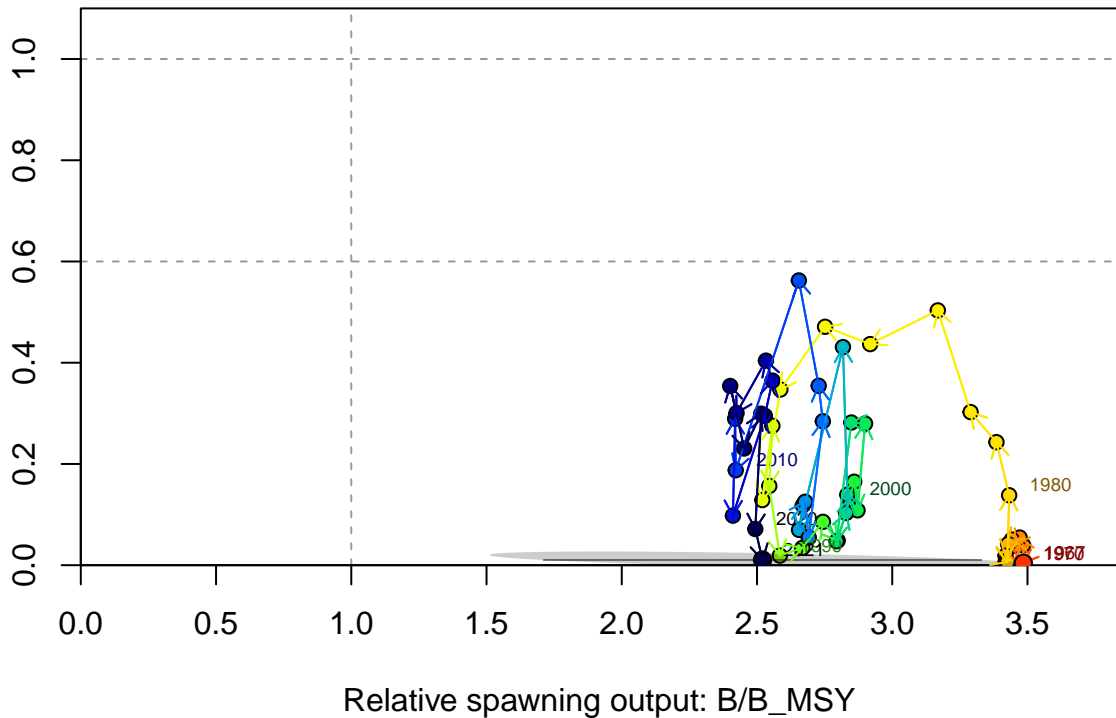


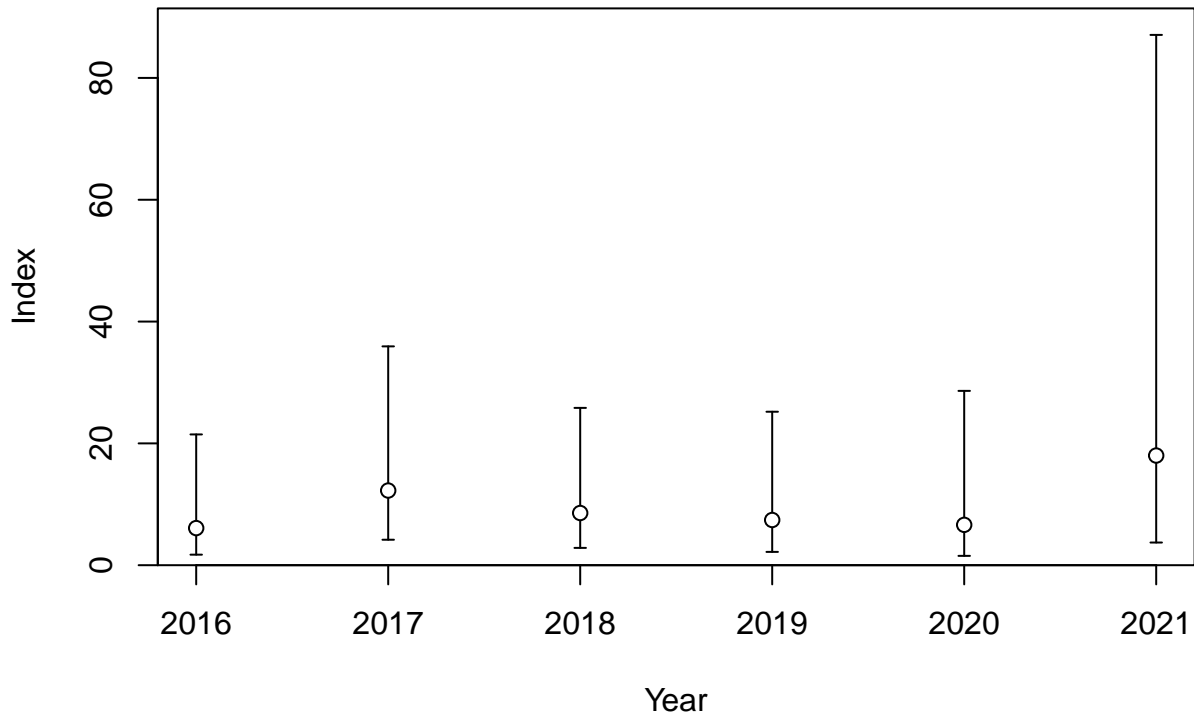


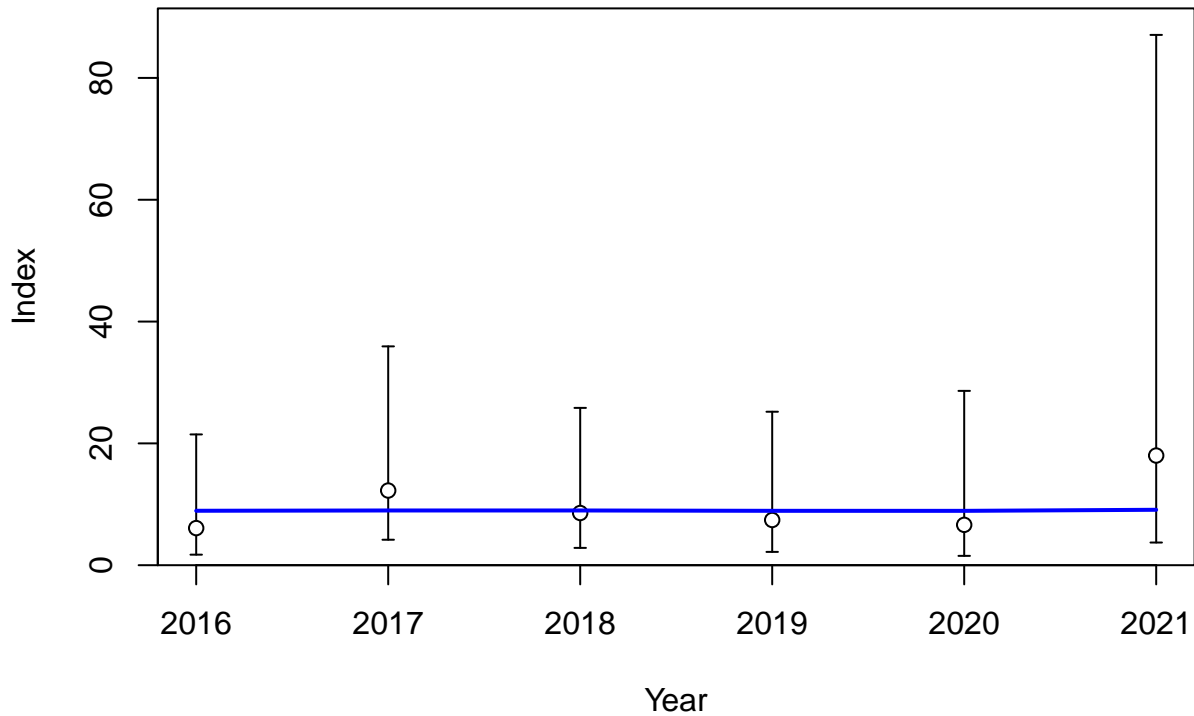
Fishing intensity: 1-SPR

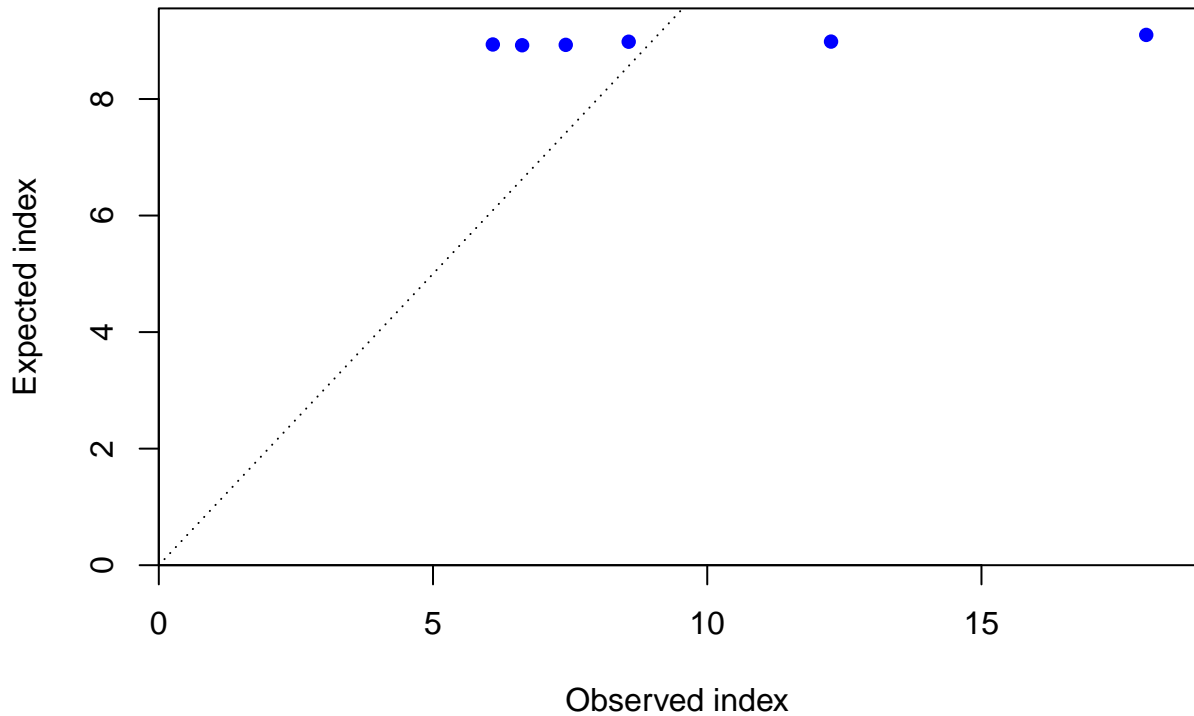


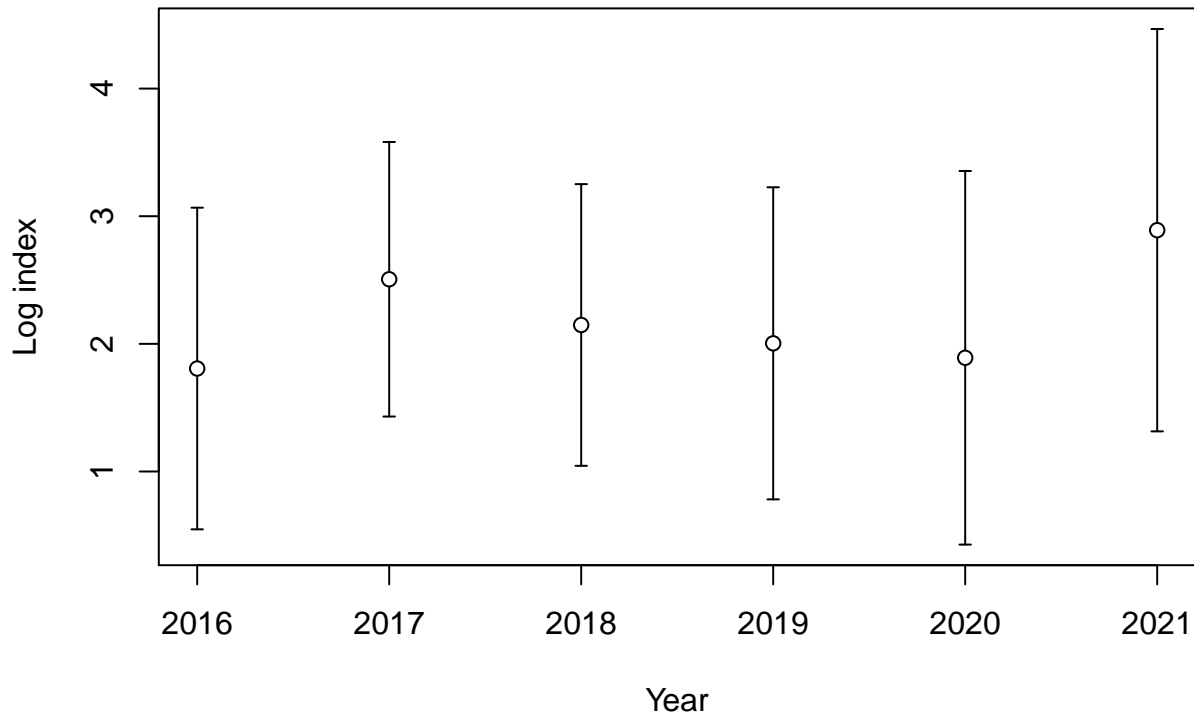
Fishing intensity: 1-SPR

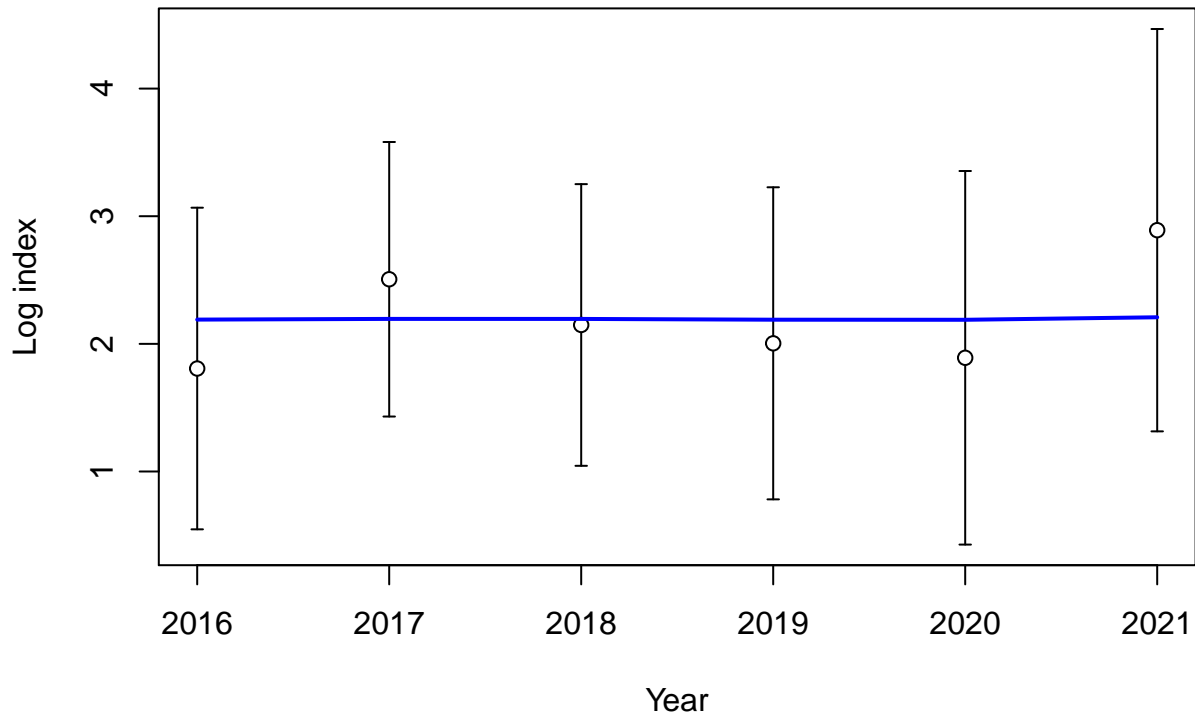


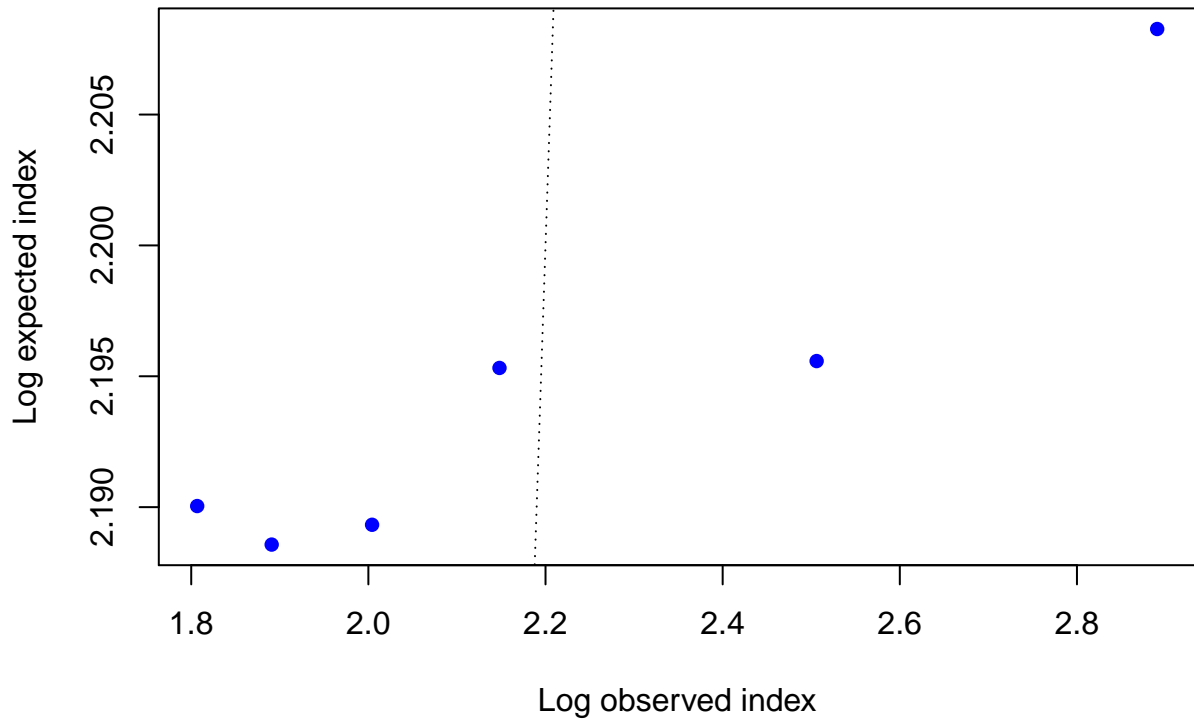


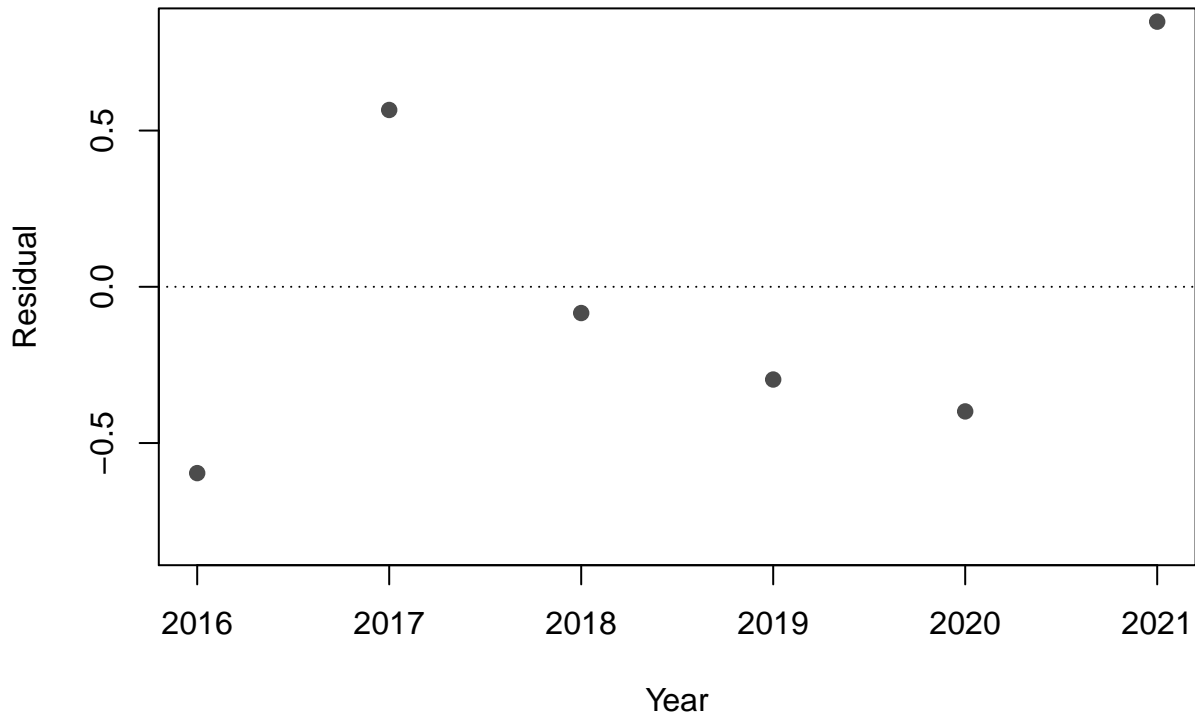


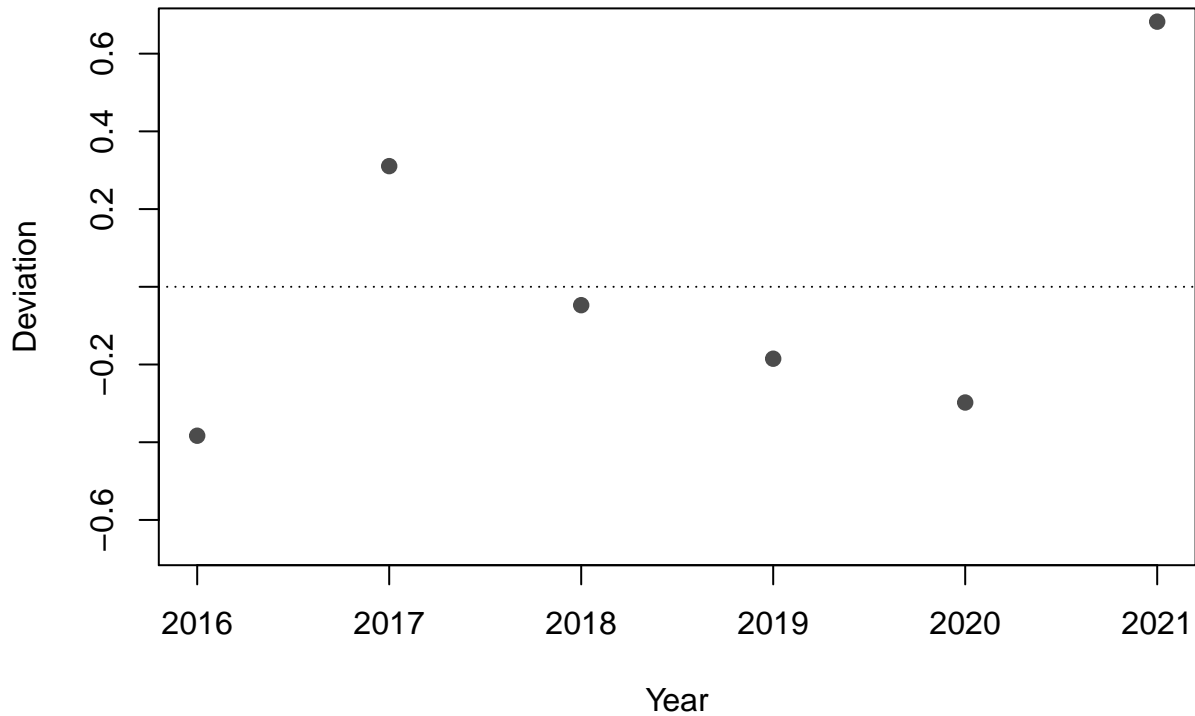


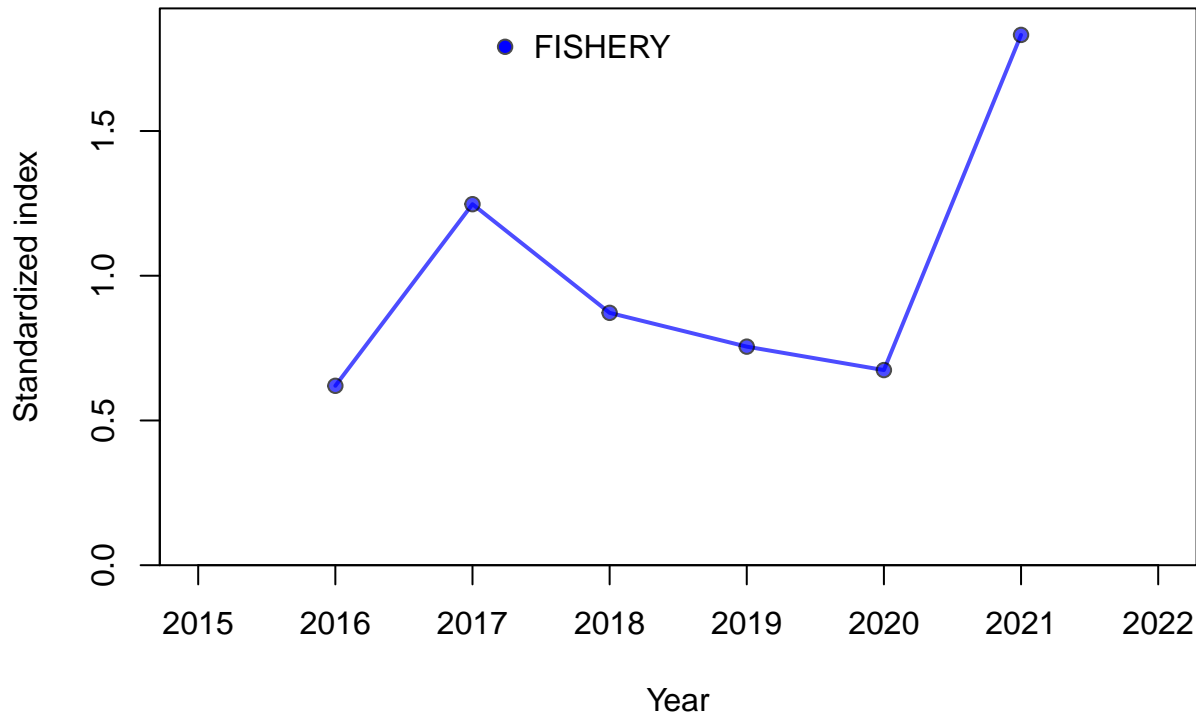


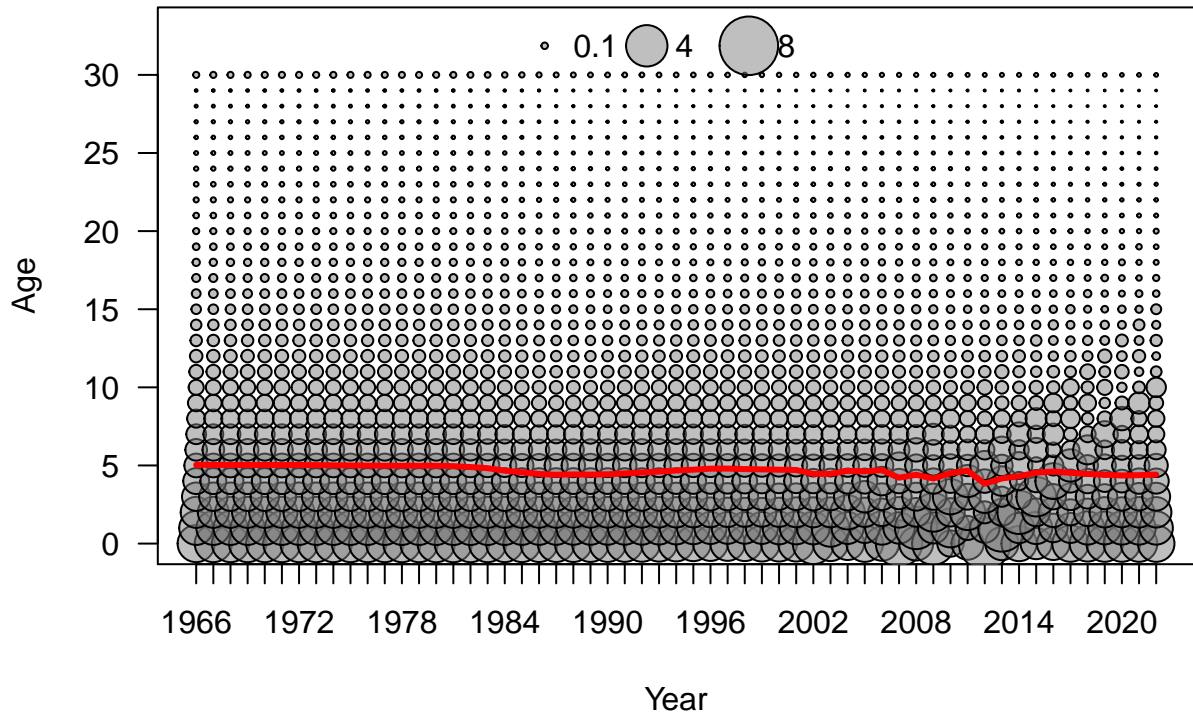


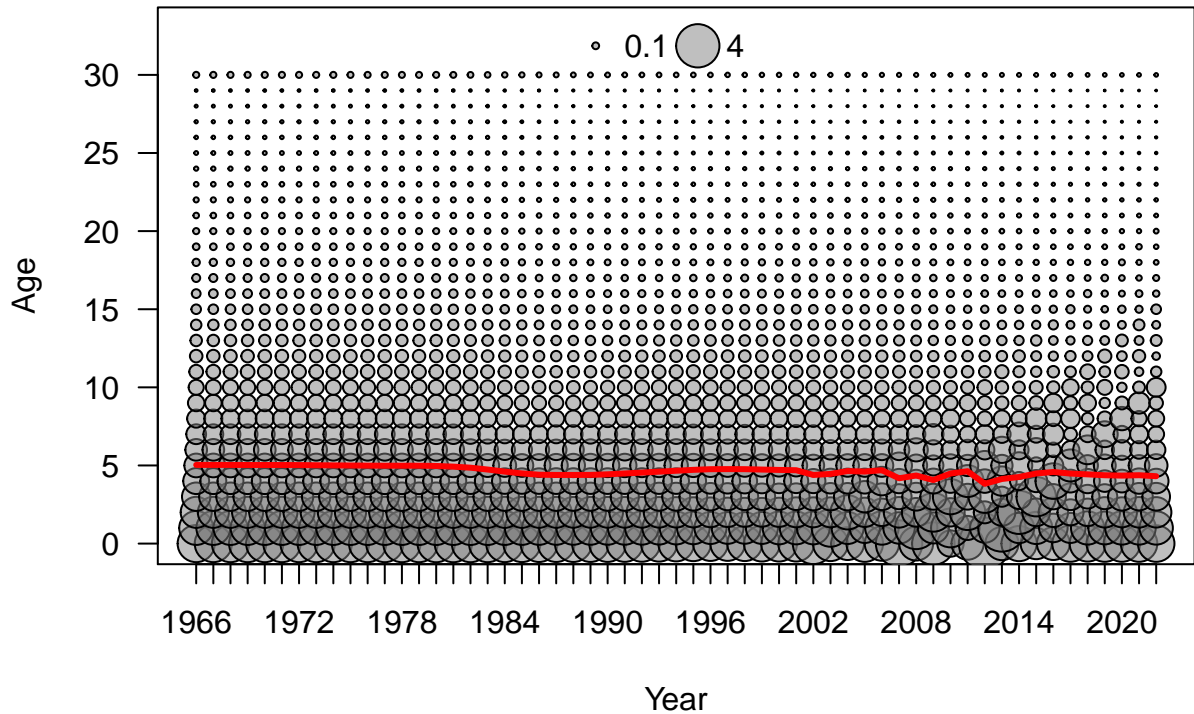


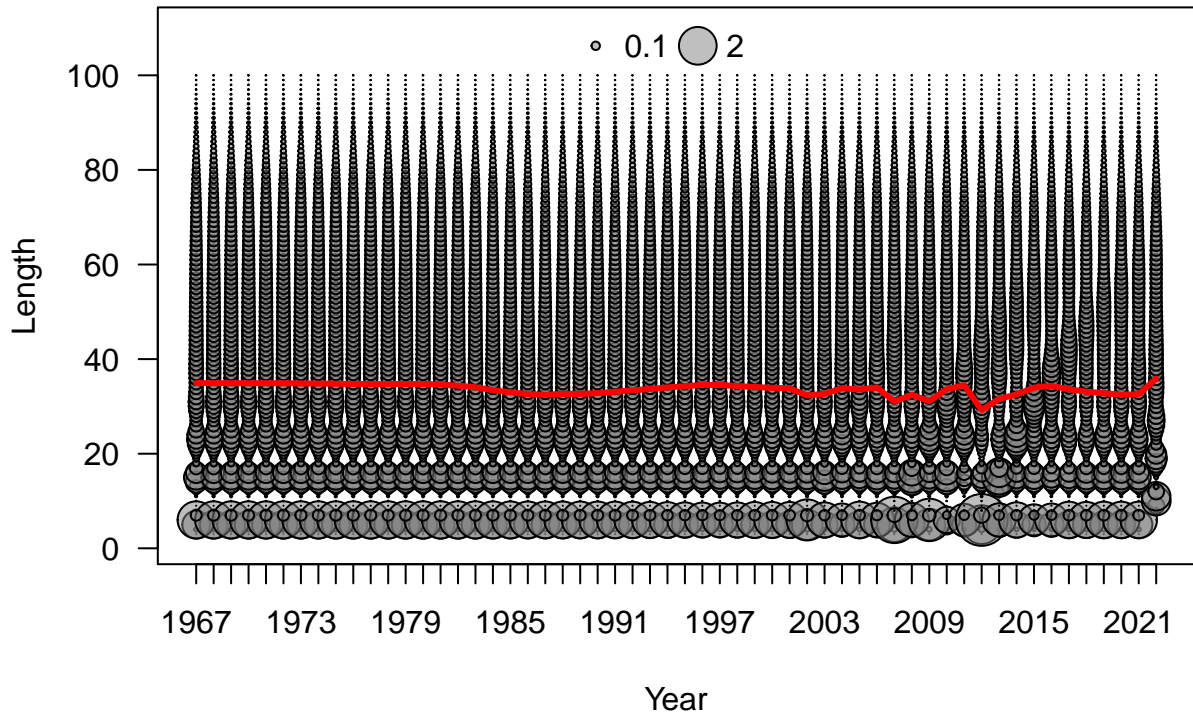


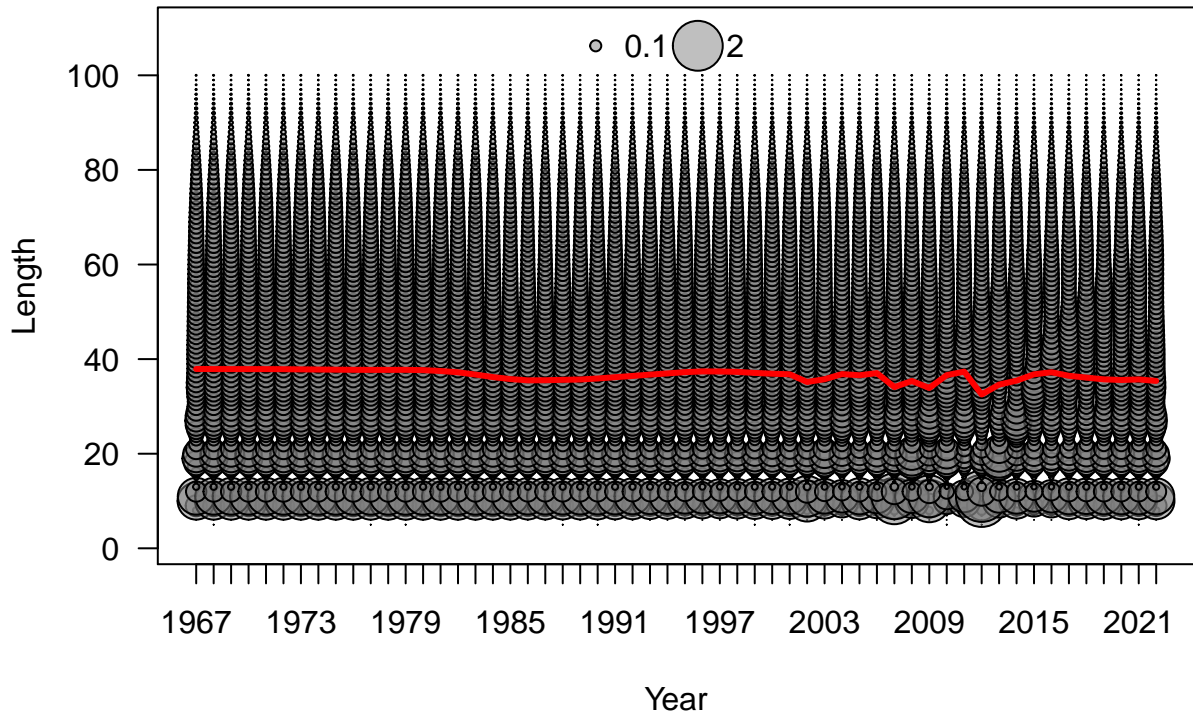


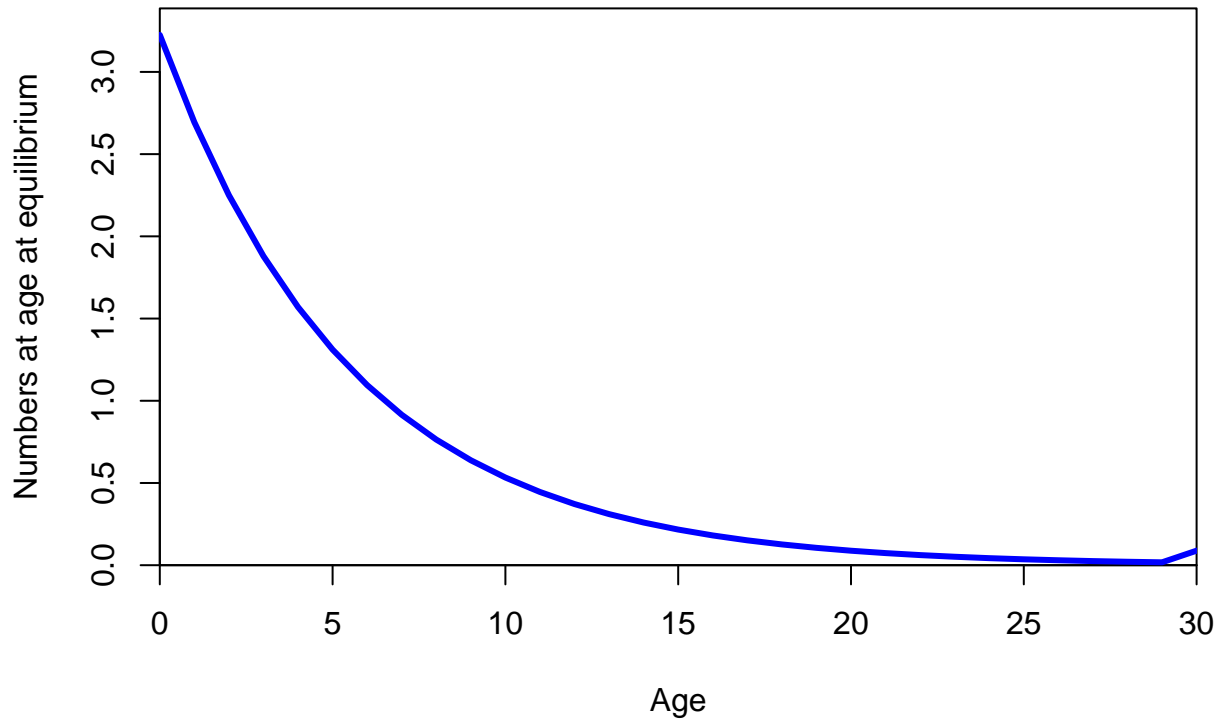






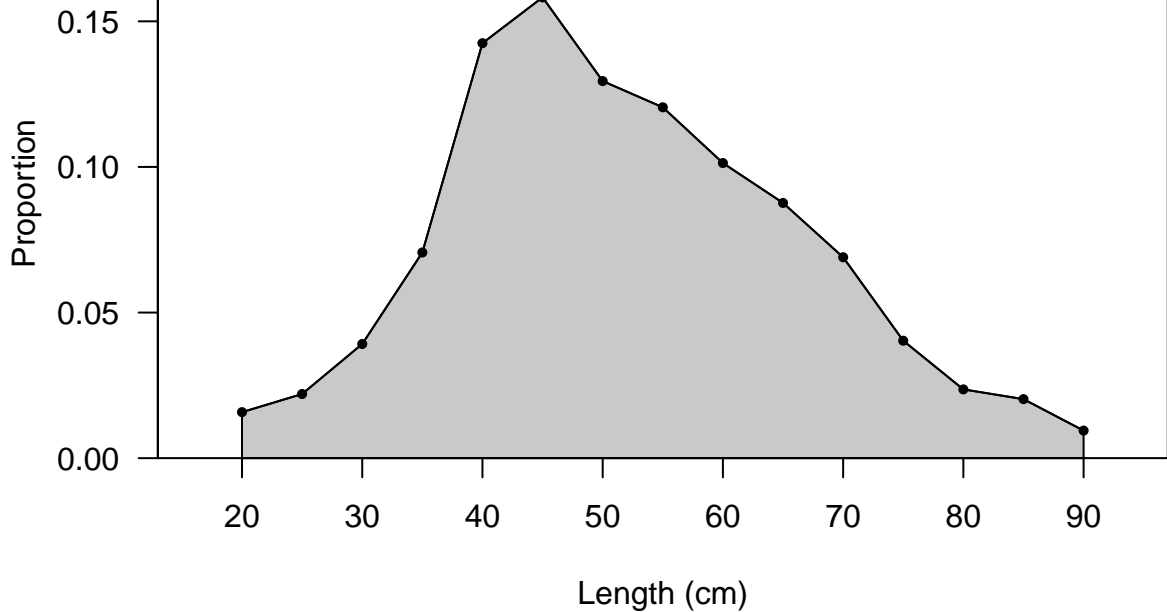






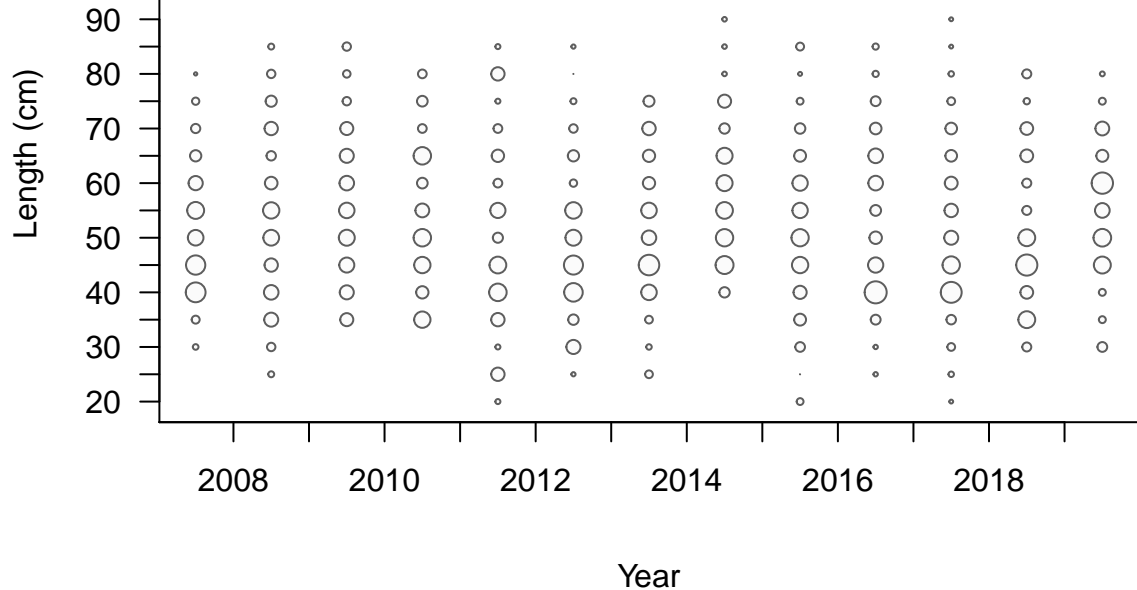
FISHERY

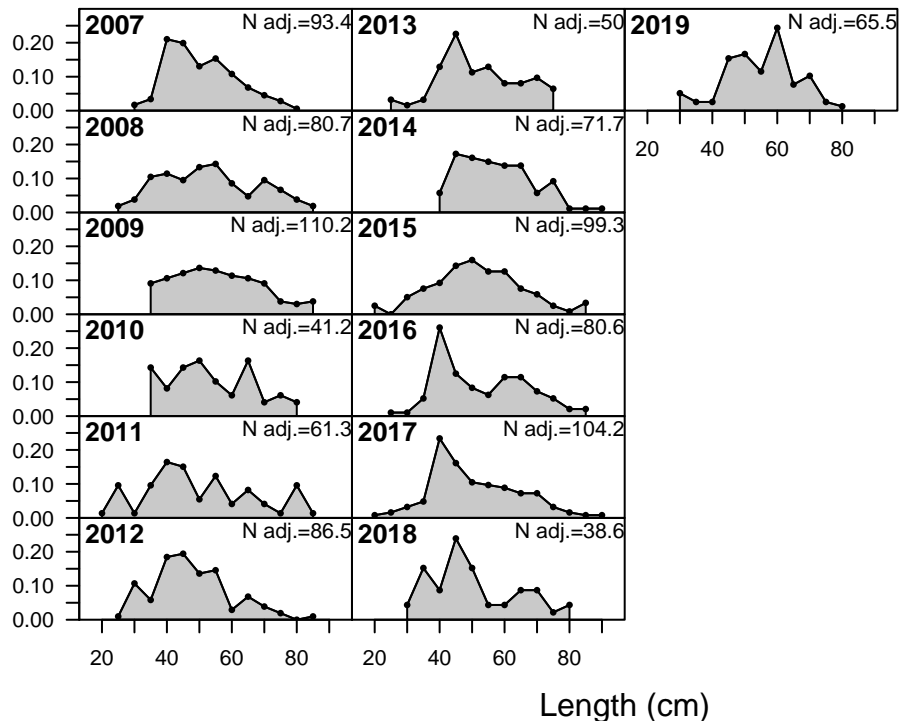
Sum of N adj.=983.4

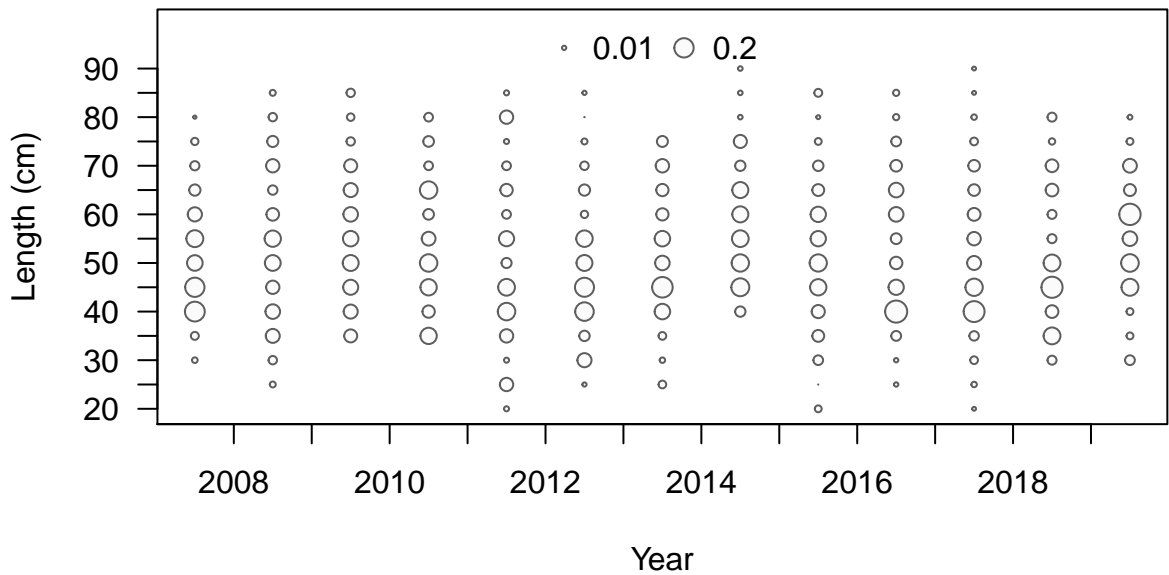


FISHERY

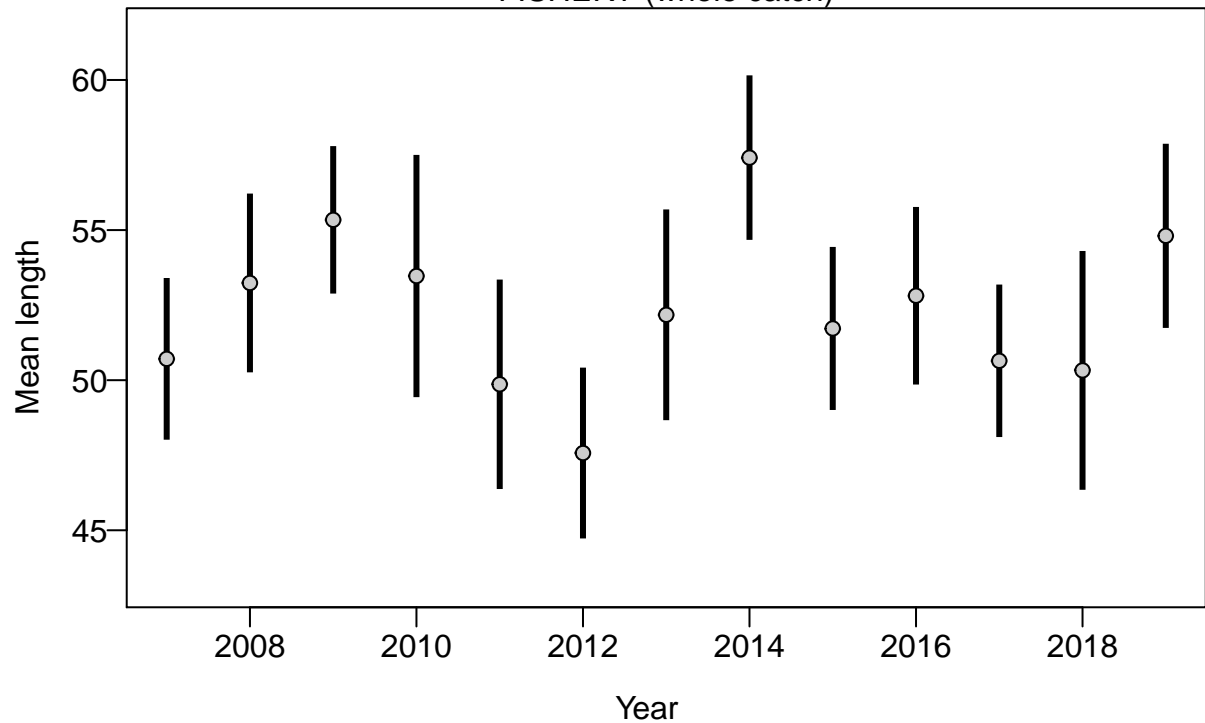
◦ 0.01 ○ 0.2





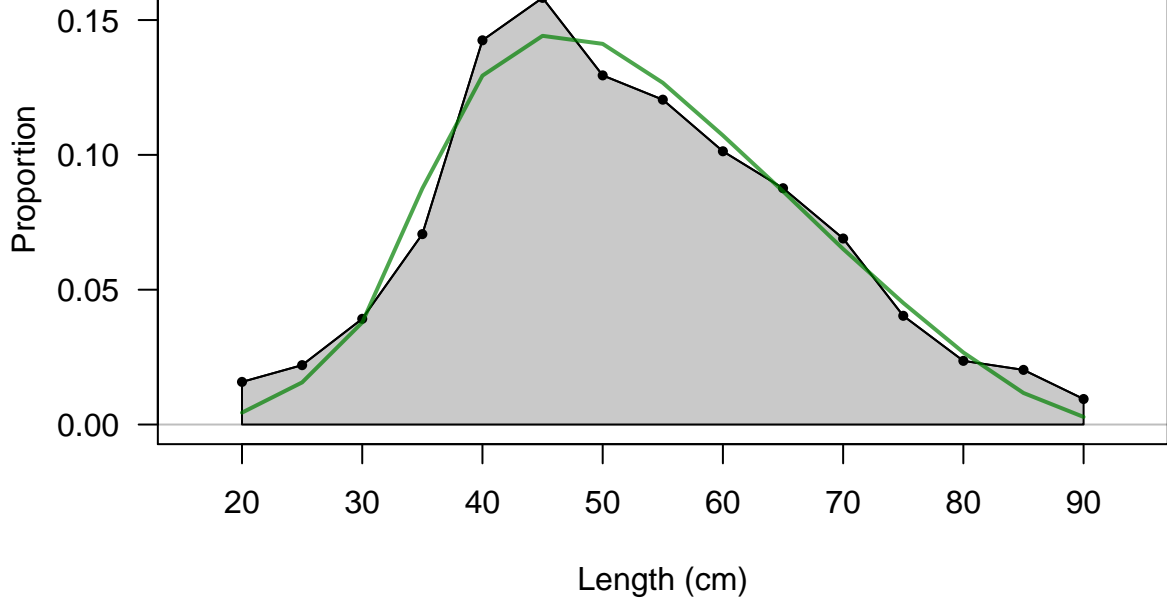


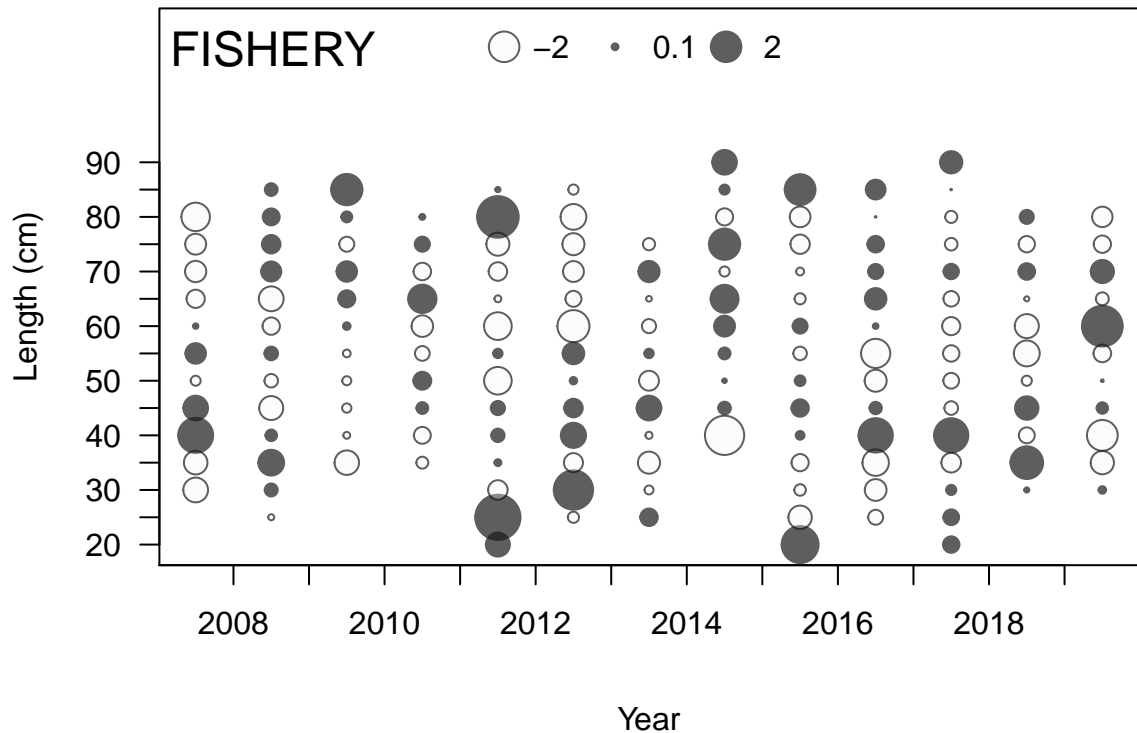
FISHERY (whole catch)



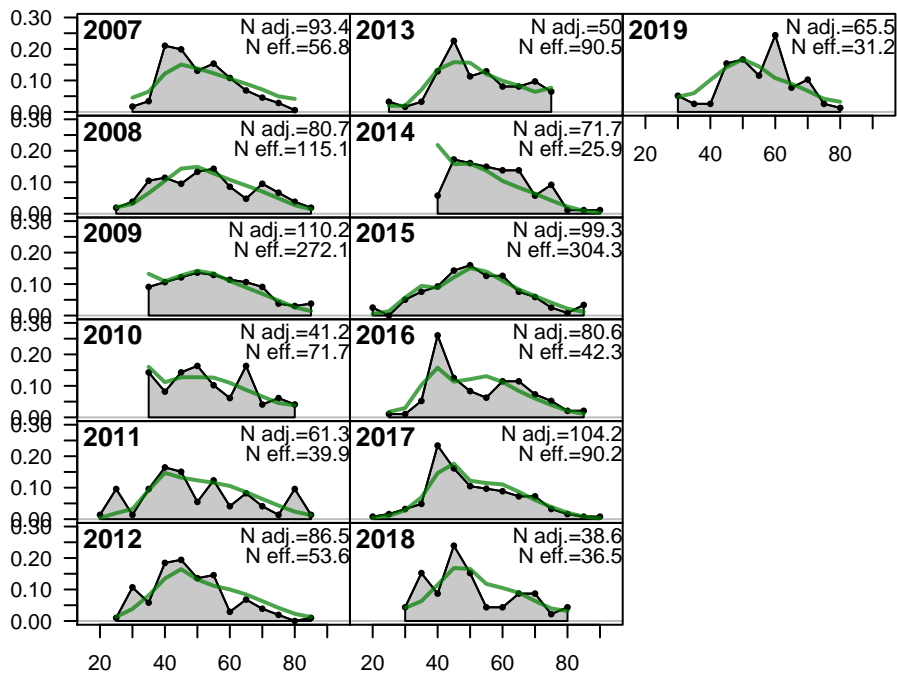
FISHERY

Sum of N adj.=983.4
Sum of N eff.=1230

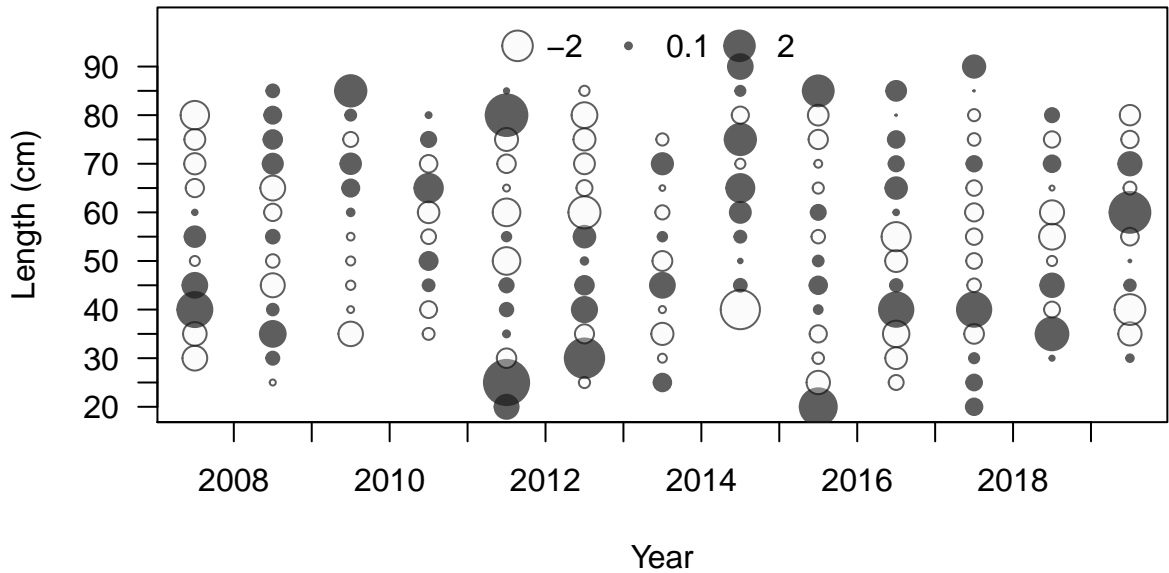




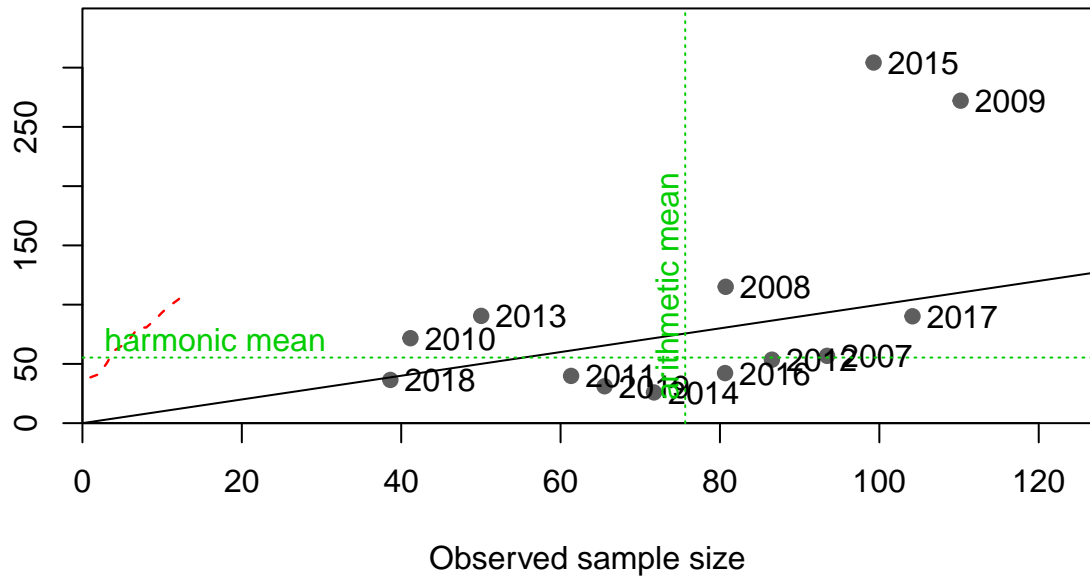
Proportion



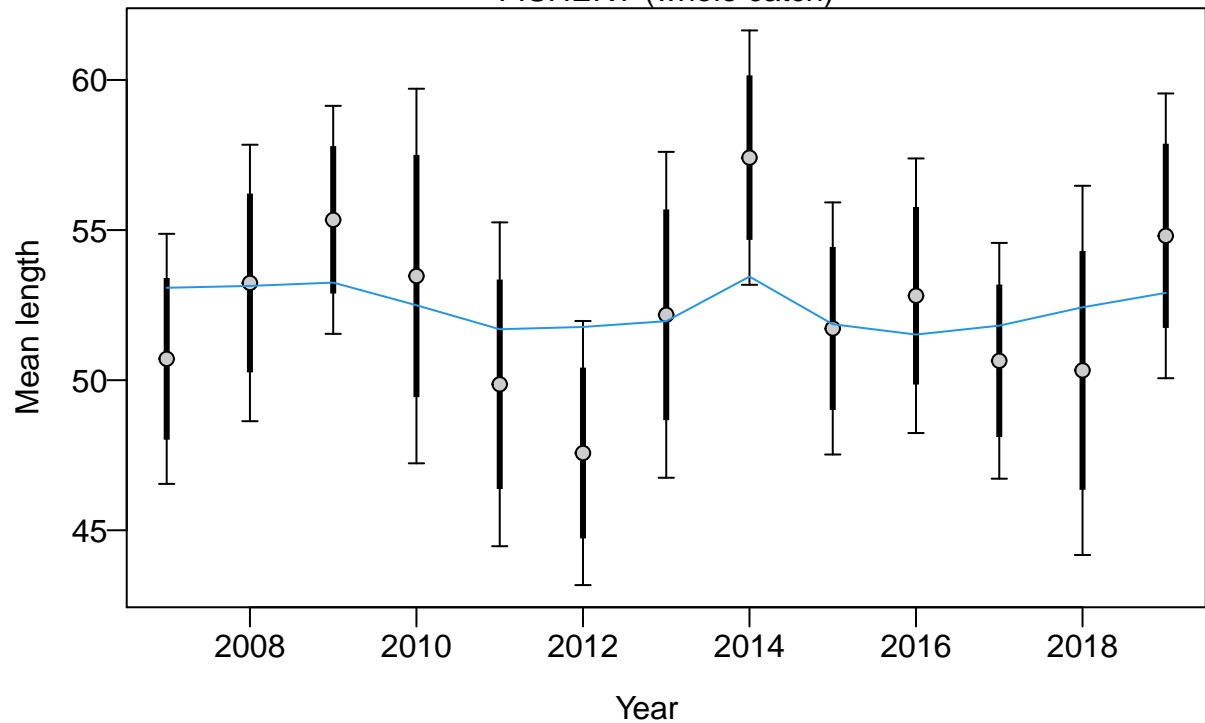
Length (cm)

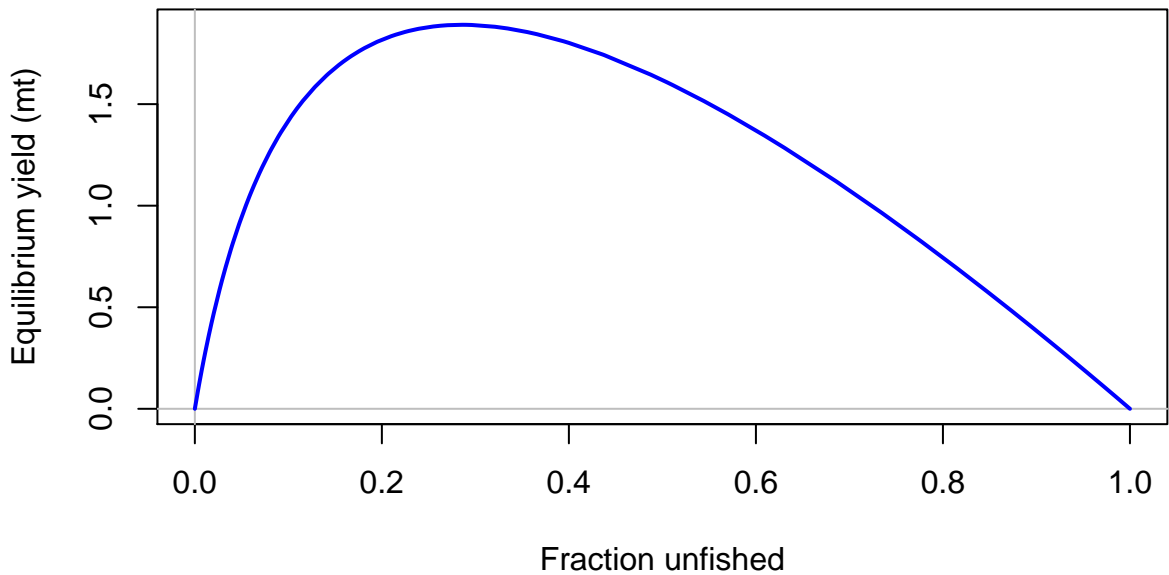


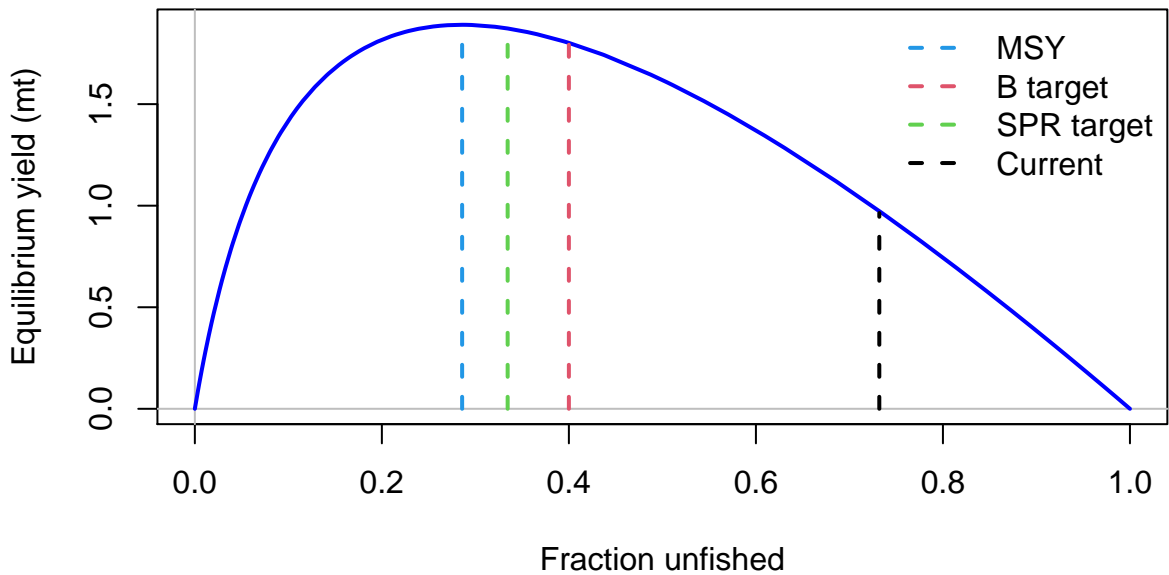
Effective sample size

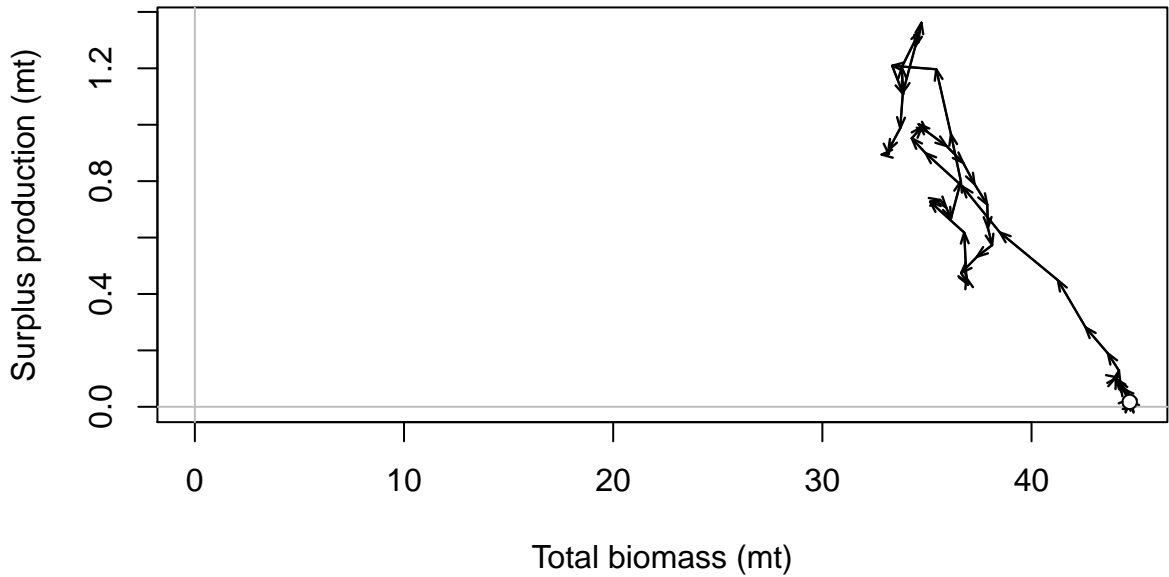


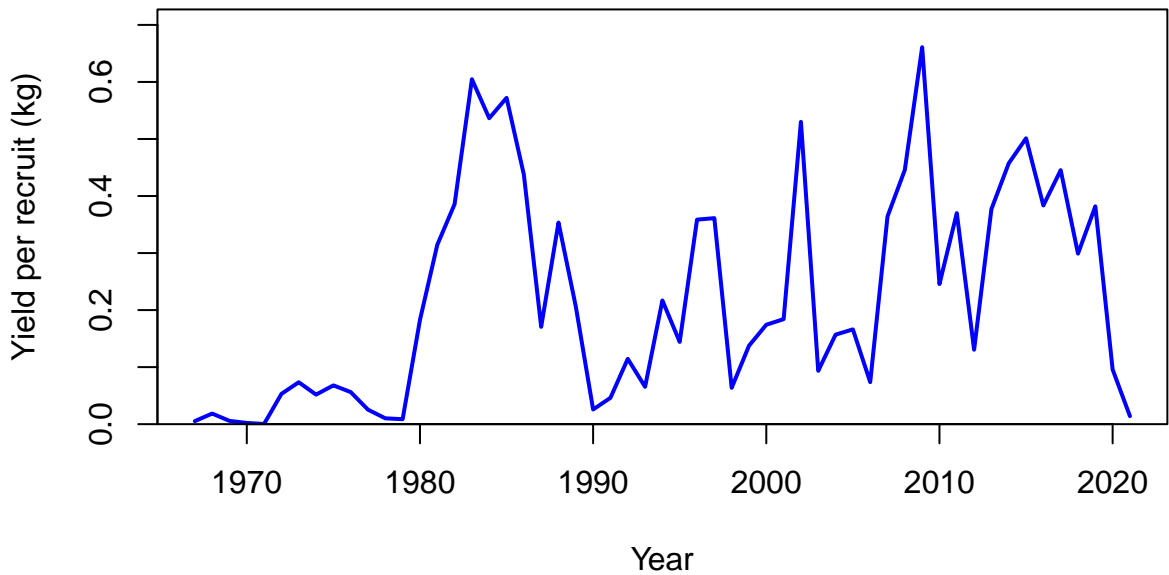
FISHERY (whole catch)

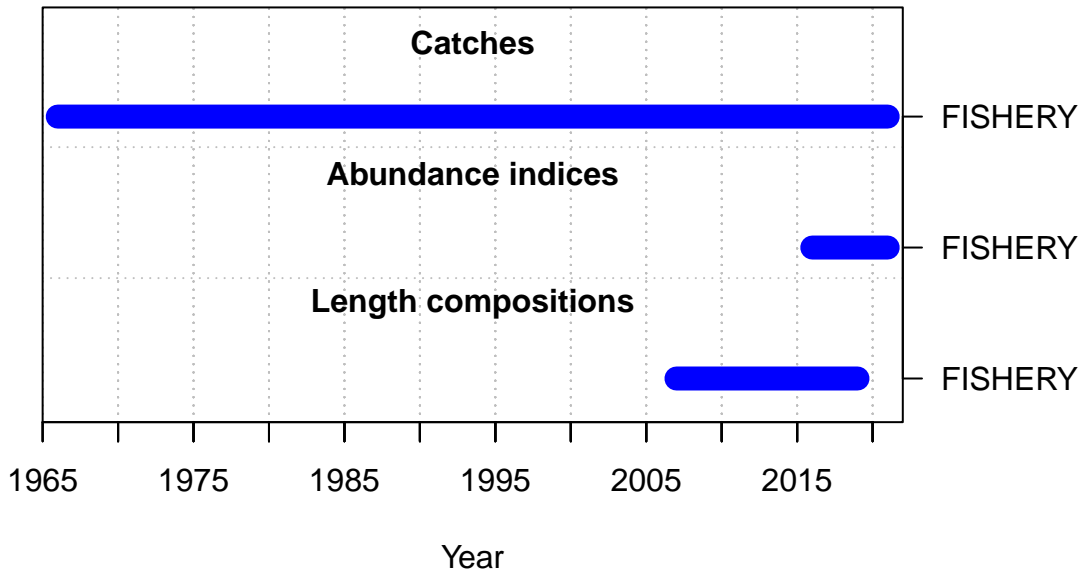


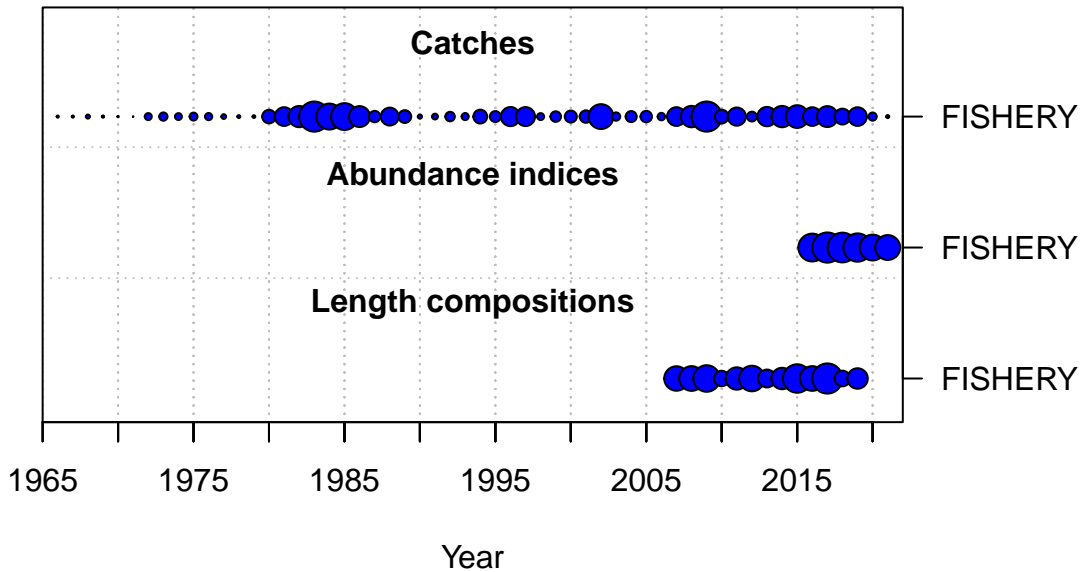








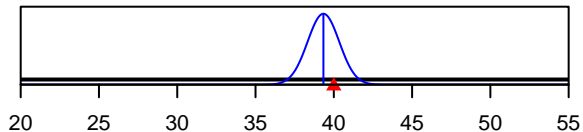




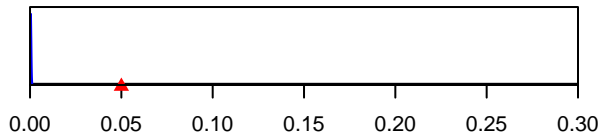
SR_LN(R0)



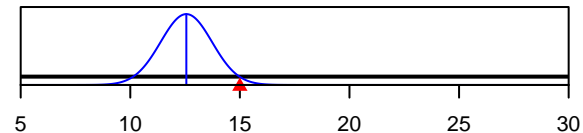
Size_inflection_FISHERY(1)



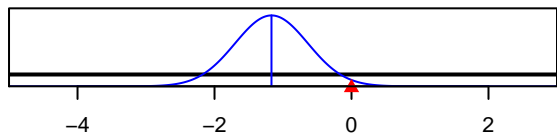
InitF_seas_1flt_1FISHERY



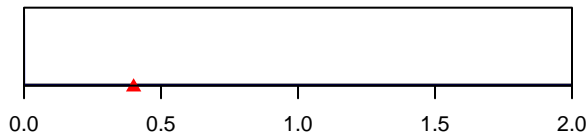
Size_95%width_FISHERY(1)



LnQ_base_FISHERY(1)



Q_extraSD_FISHERY(1)



Parameter value