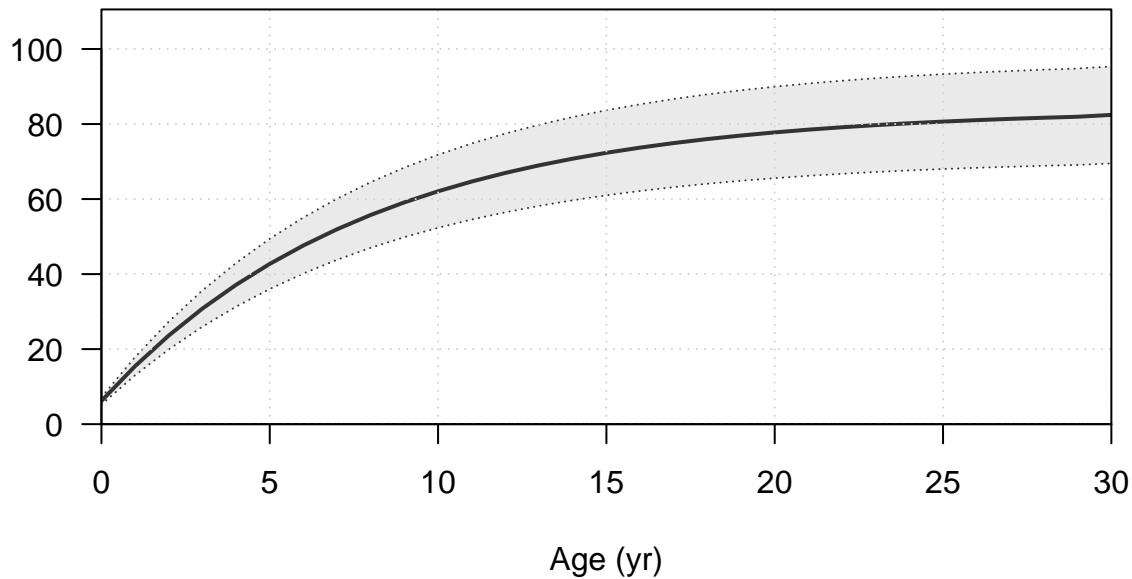
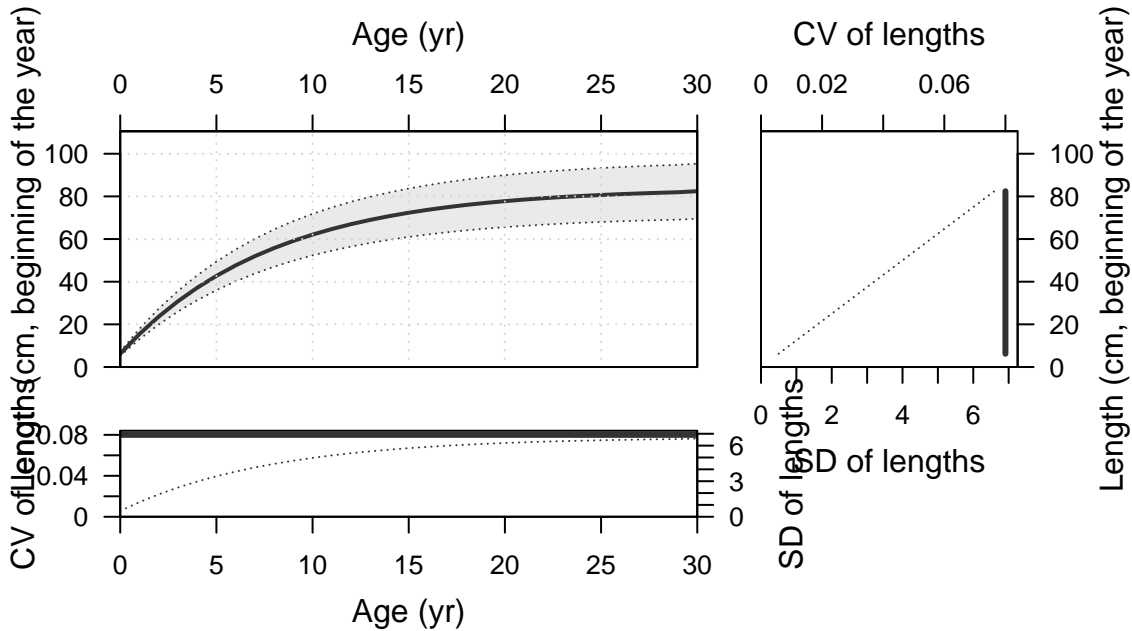
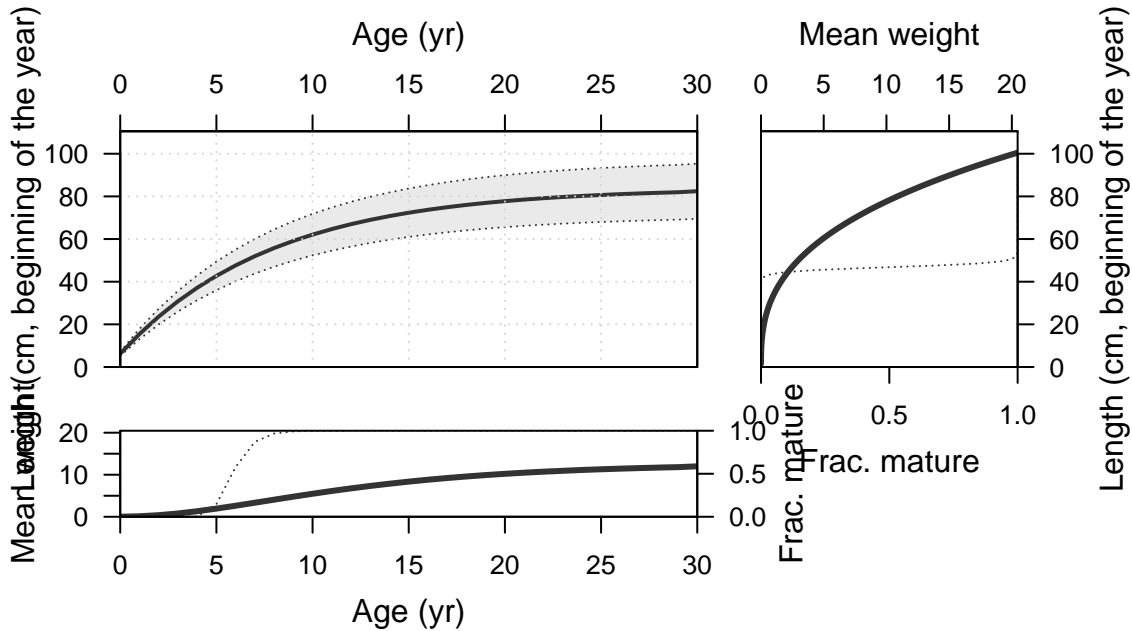


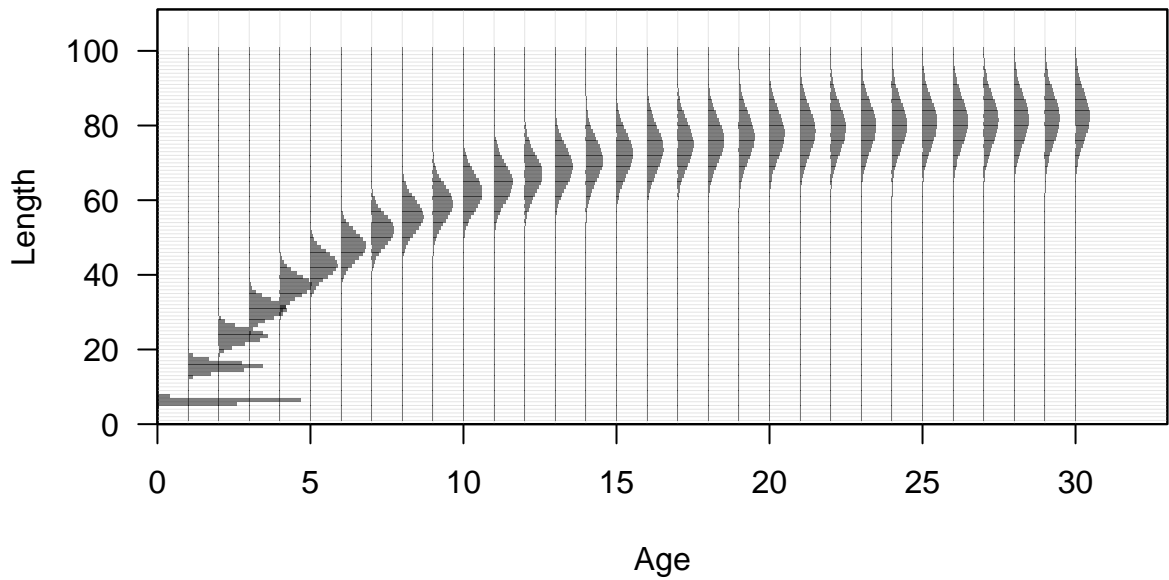
Plots created using the 'r4ss' package in R
Stock Synthesis version: 3.30.19.0
StartTime: Tue Aug 02 12:42:06 2022
Data_File: data.ss
Control_File: control.ss

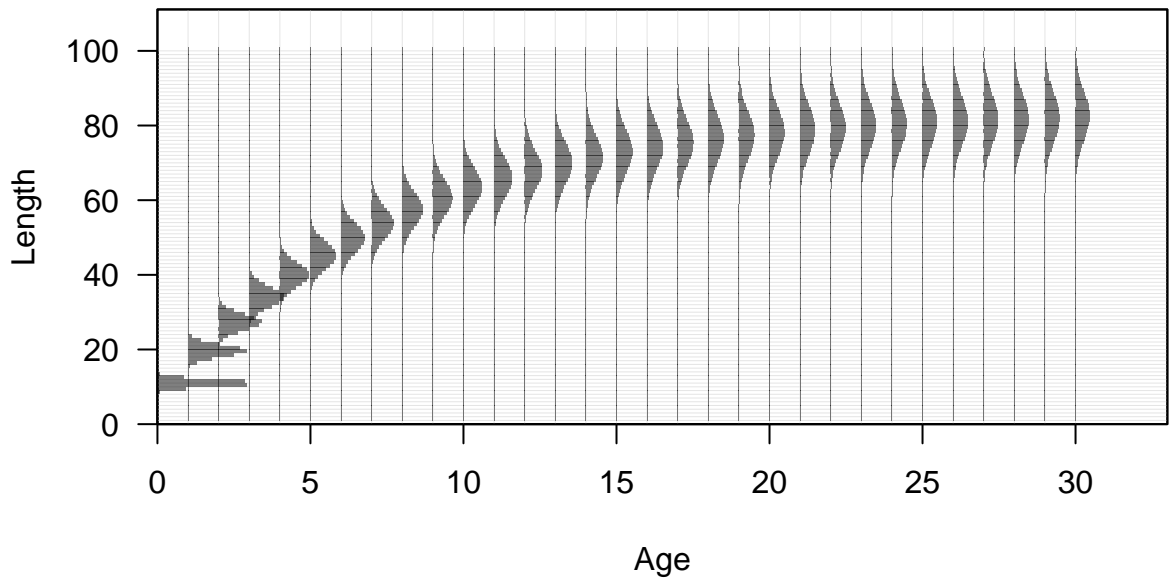
Length (cm, beginning of the year)

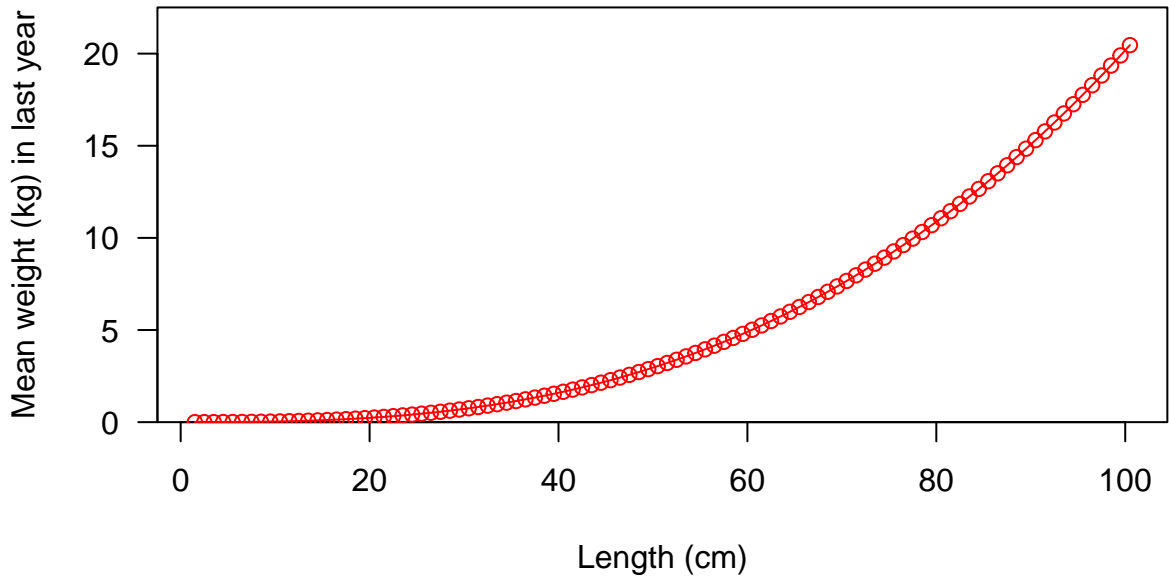


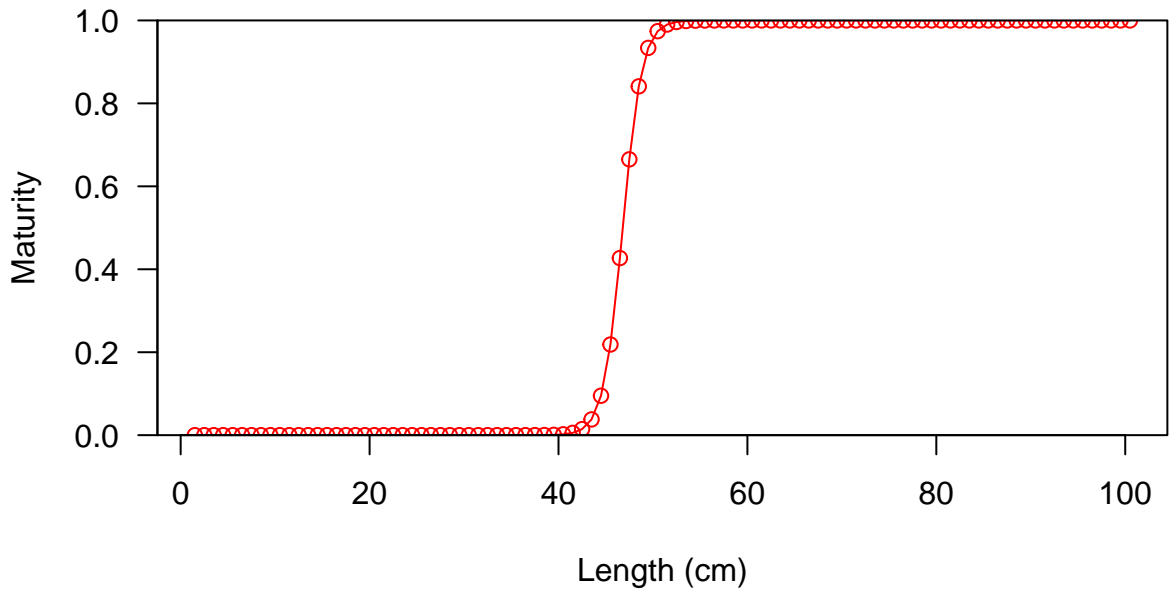


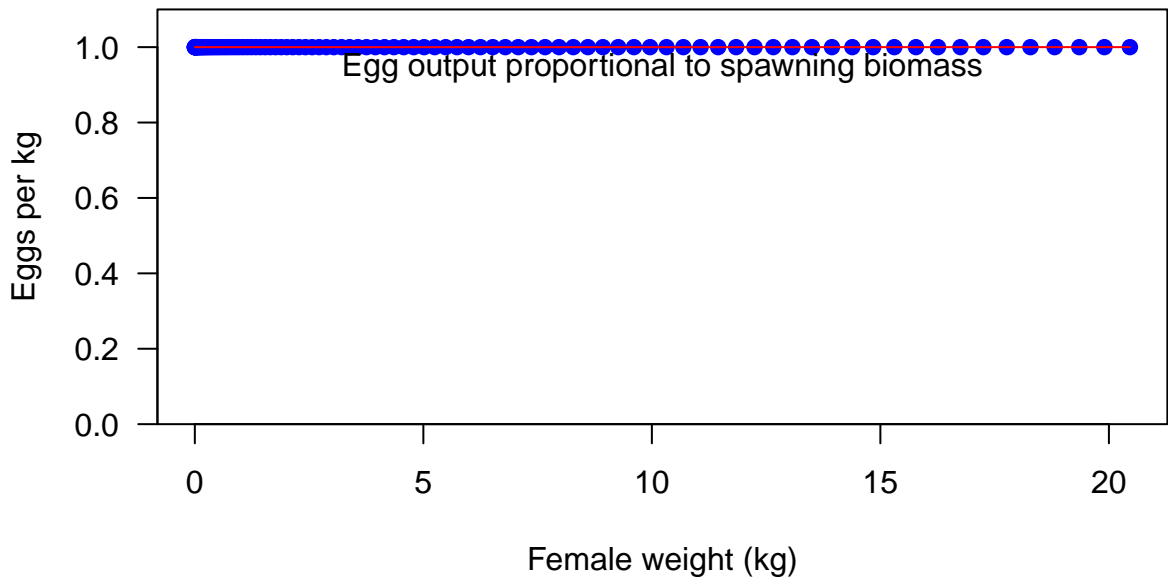




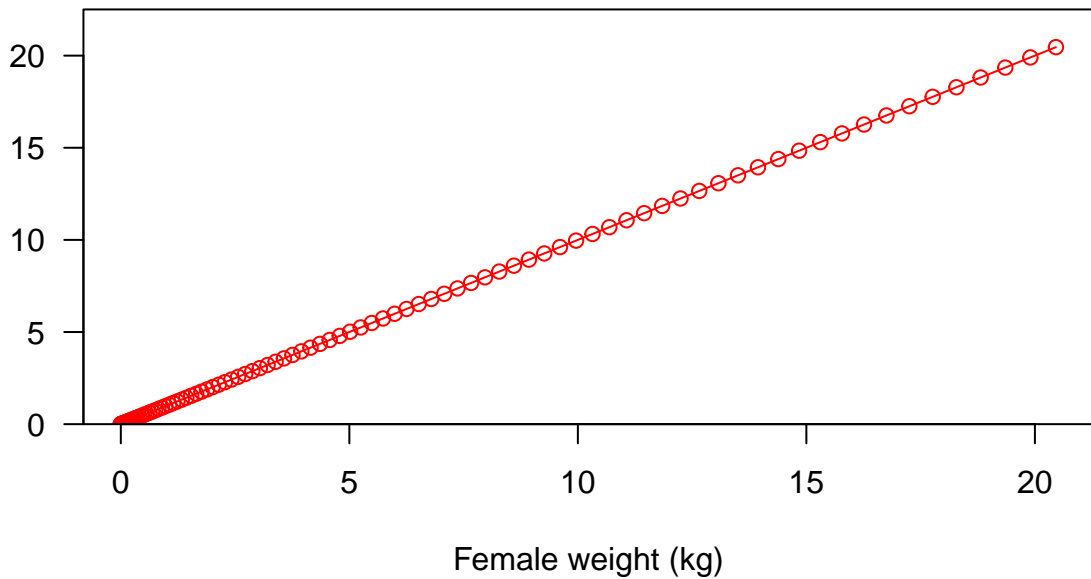








Fecundity



Fecundity

20

15

10

5

0

0

20

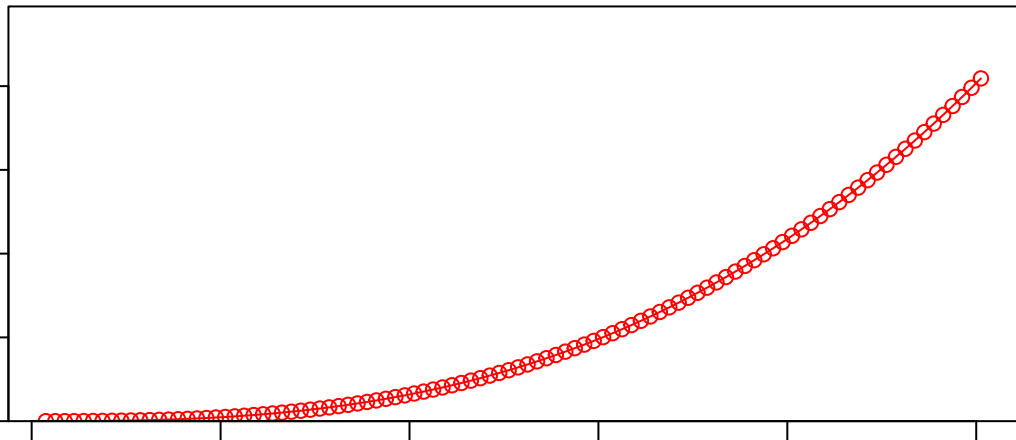
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60

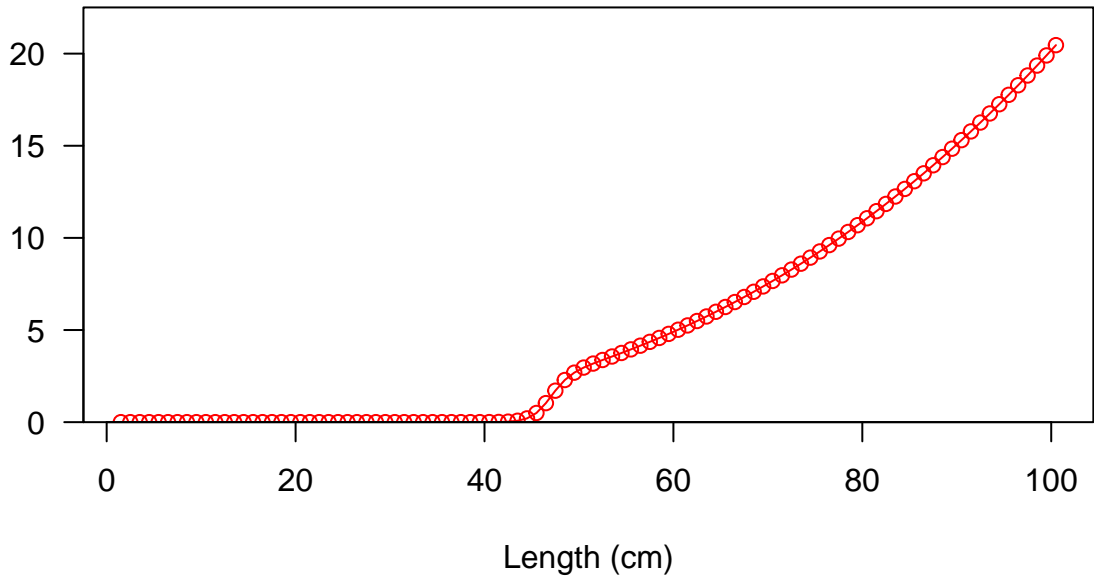
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100

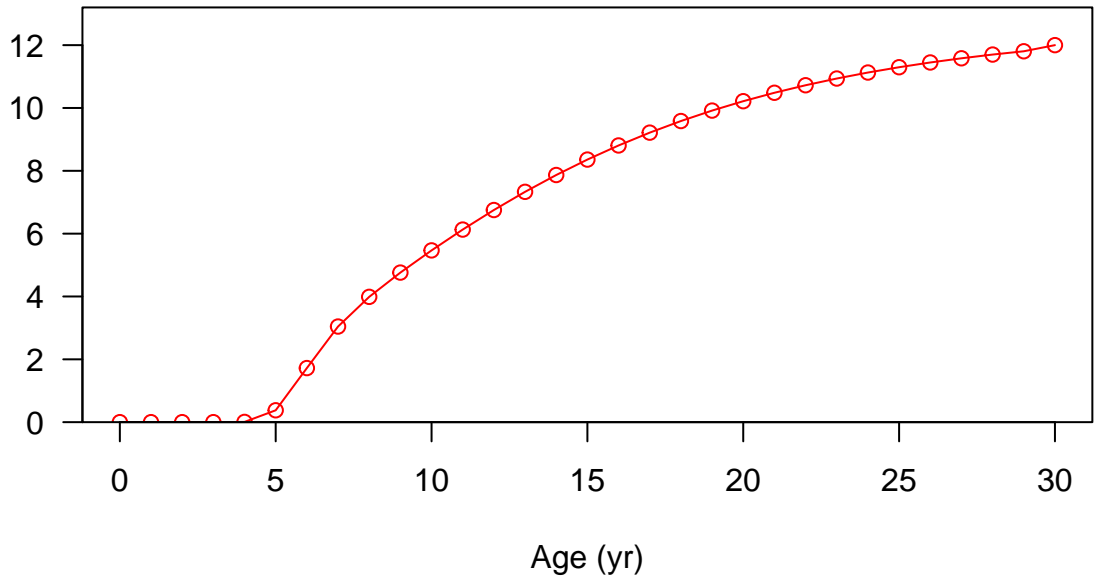
Female length (cm)



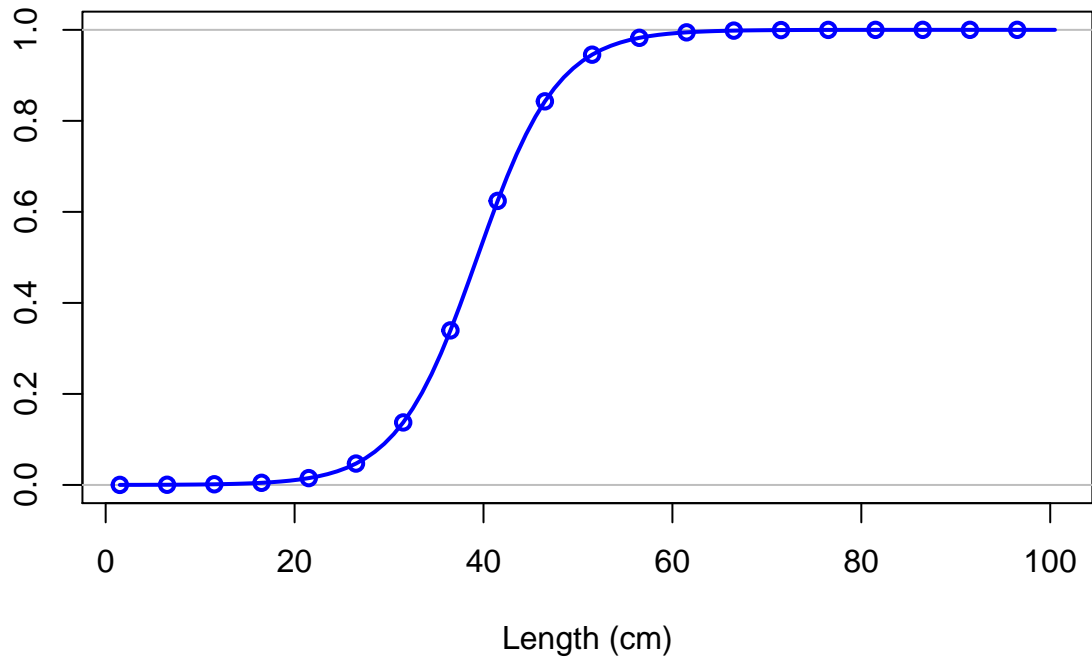
Spawning output



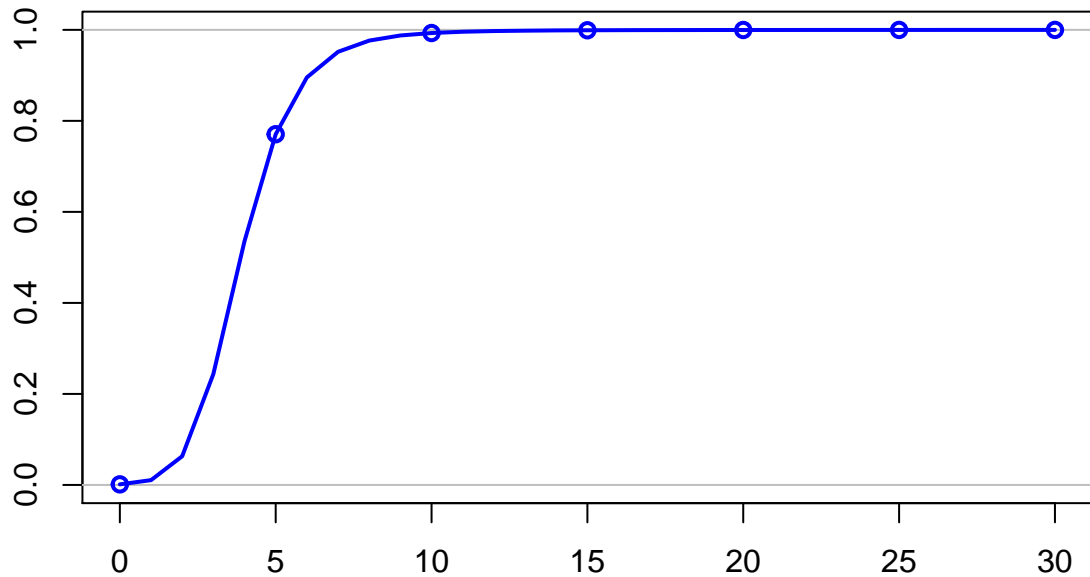
Spawning output



Selectivity

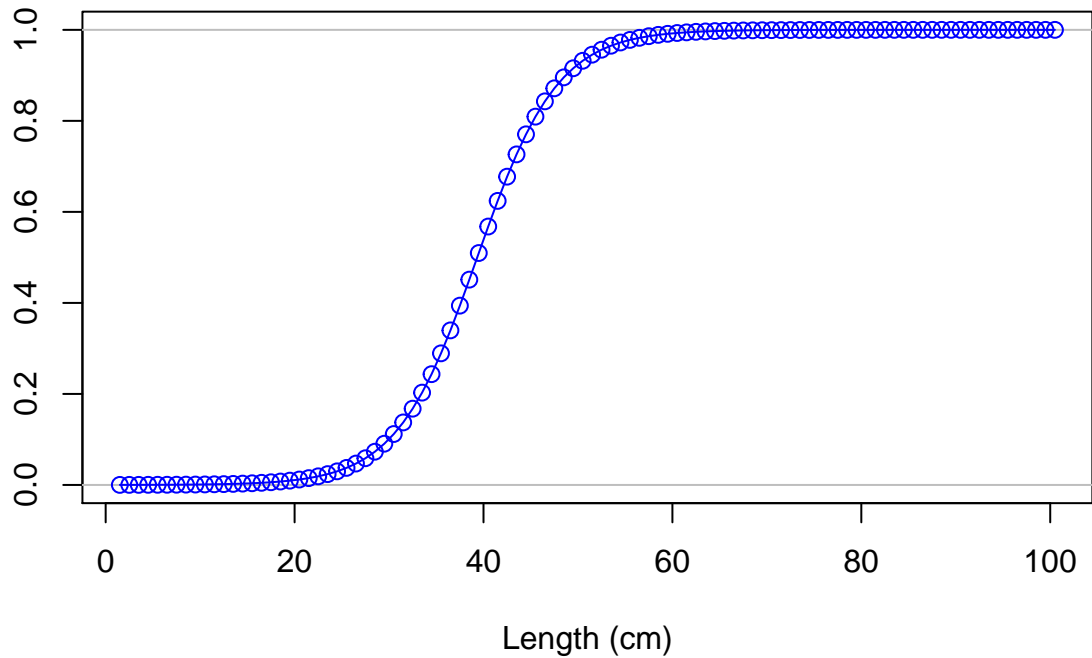


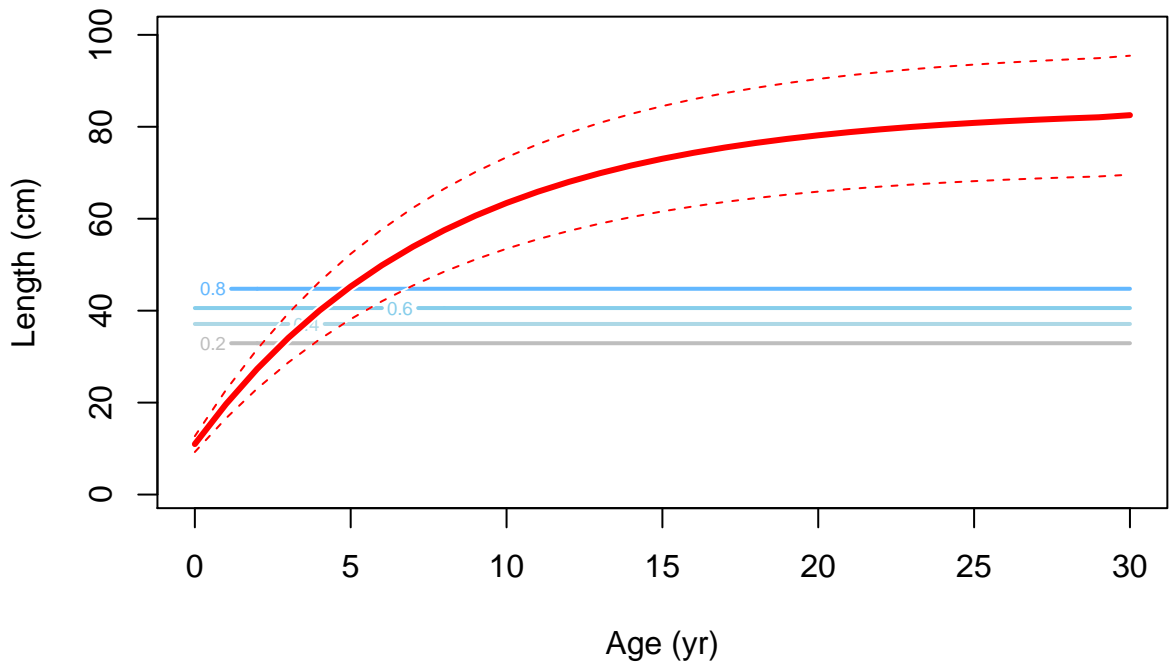
Selectivity

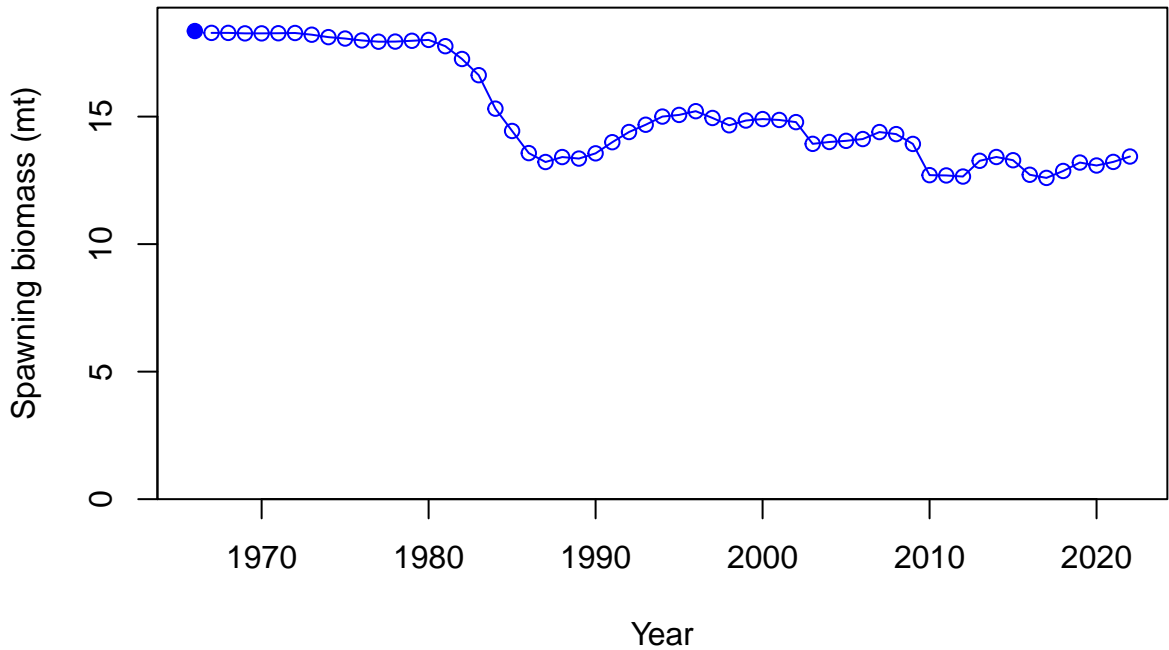


Age (yr)

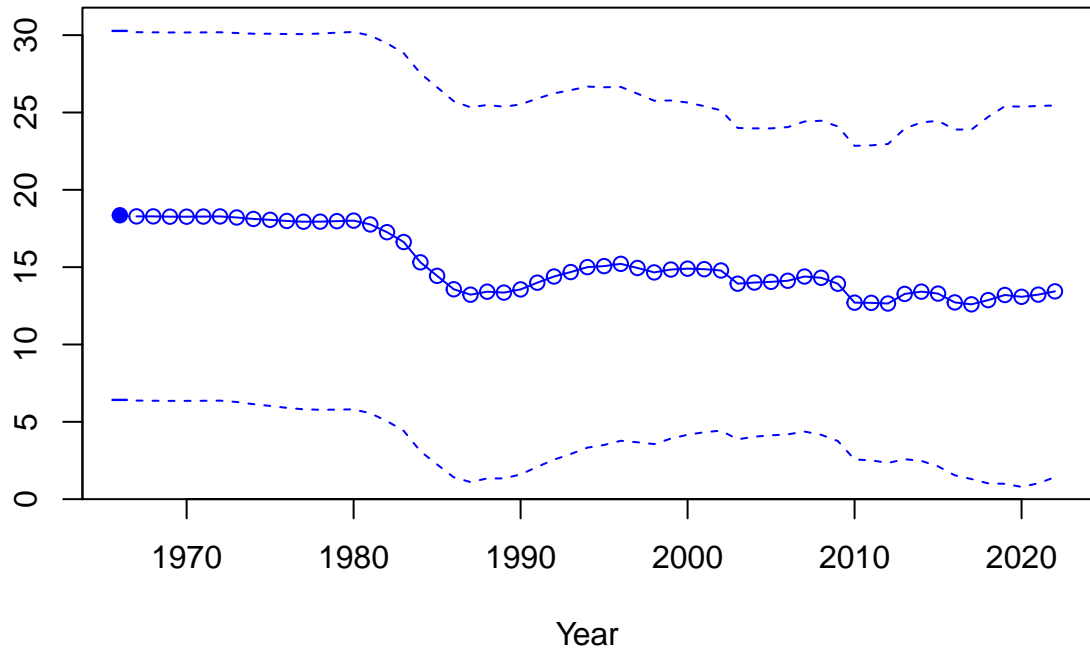
Selectivity



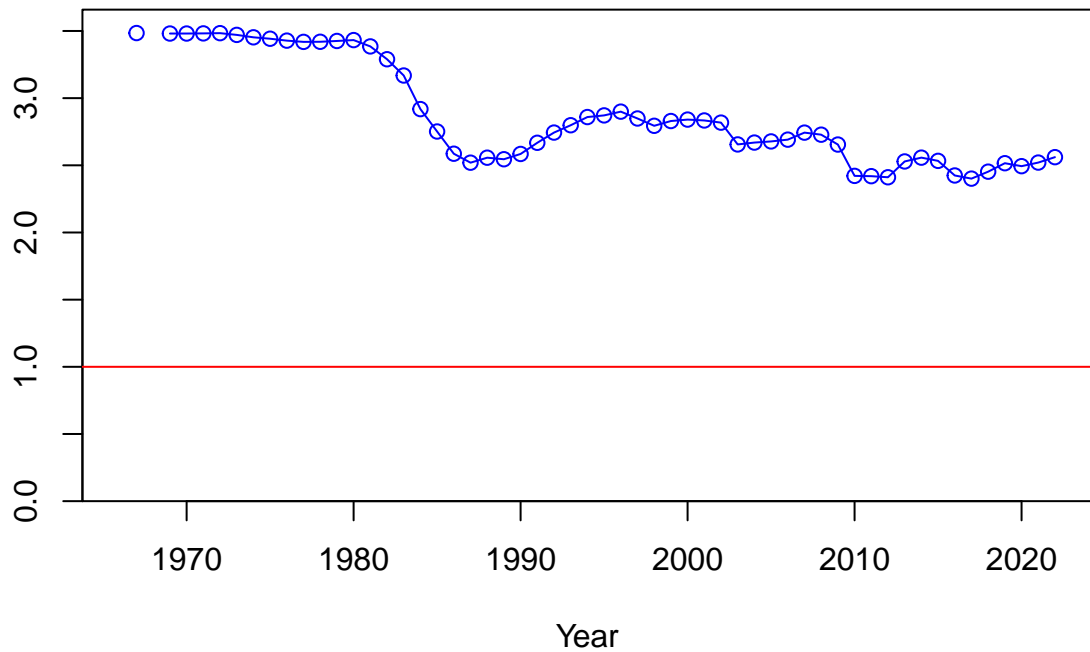




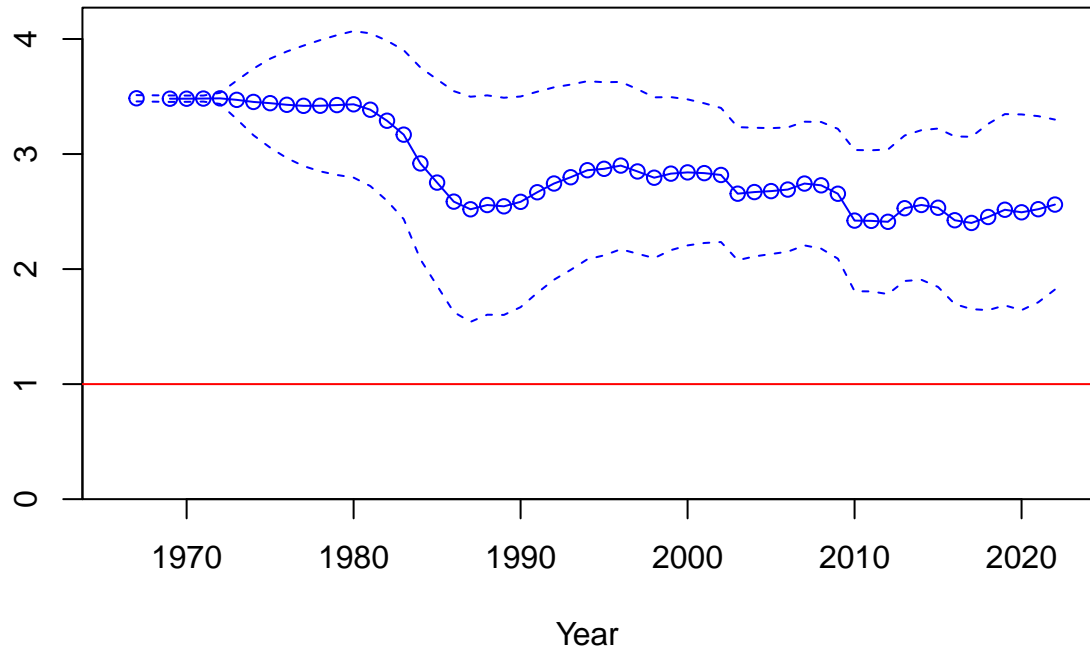
Spawning biomass (mt)

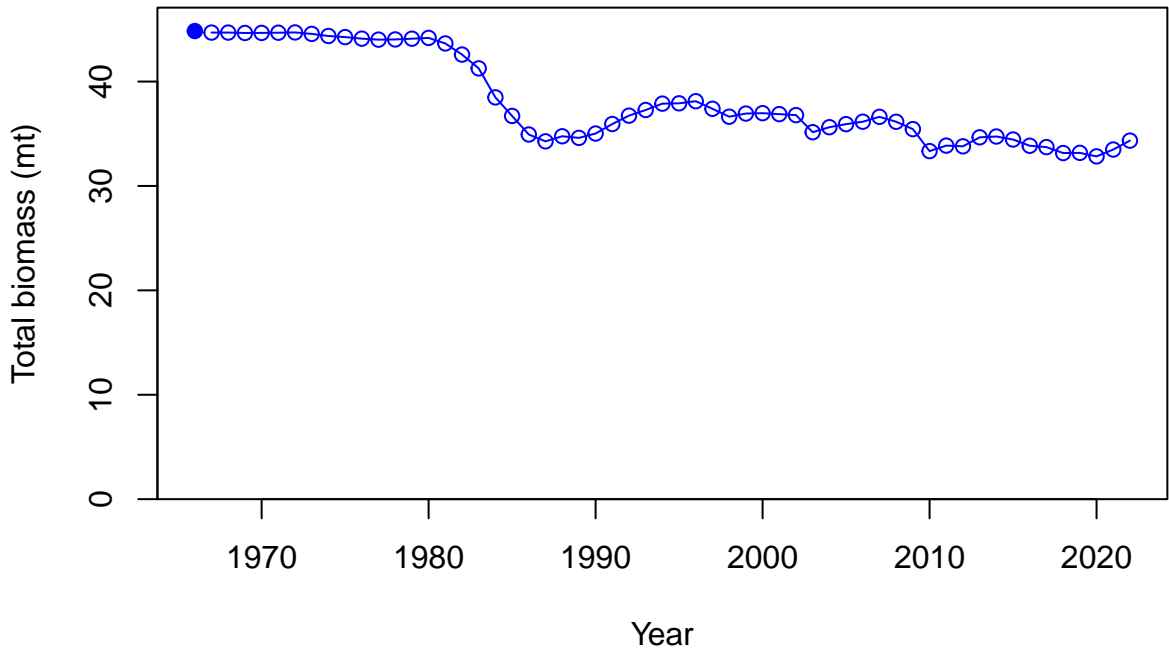


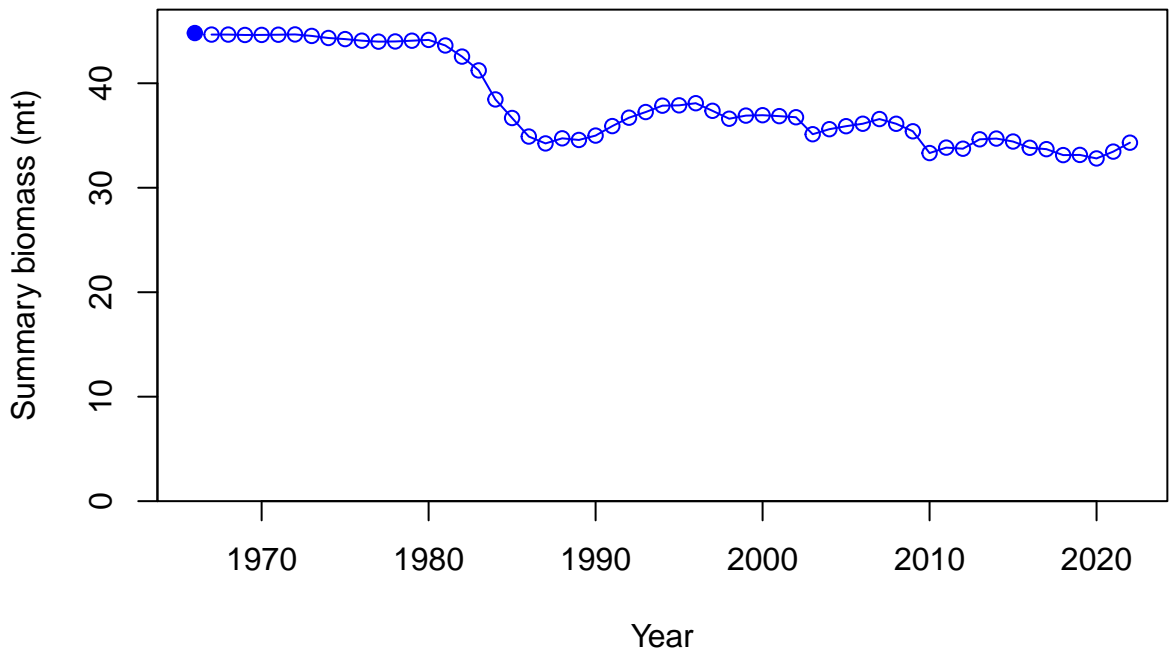
Relative spawning biomass: B/B_{MSY}



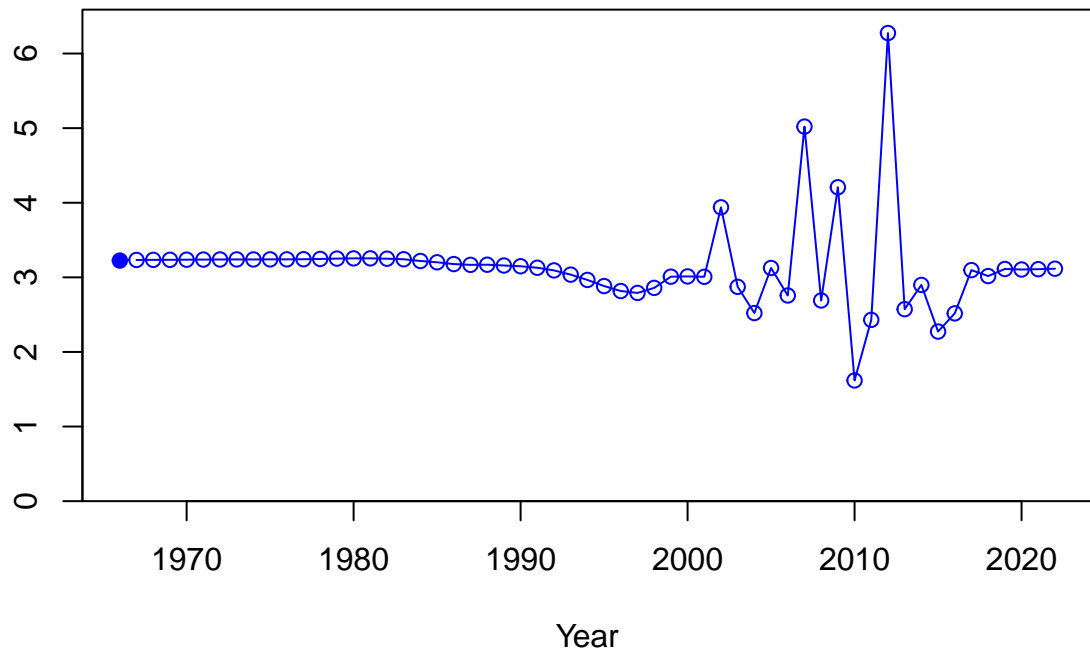
Relative spawning biomass: B/B_{MSY}



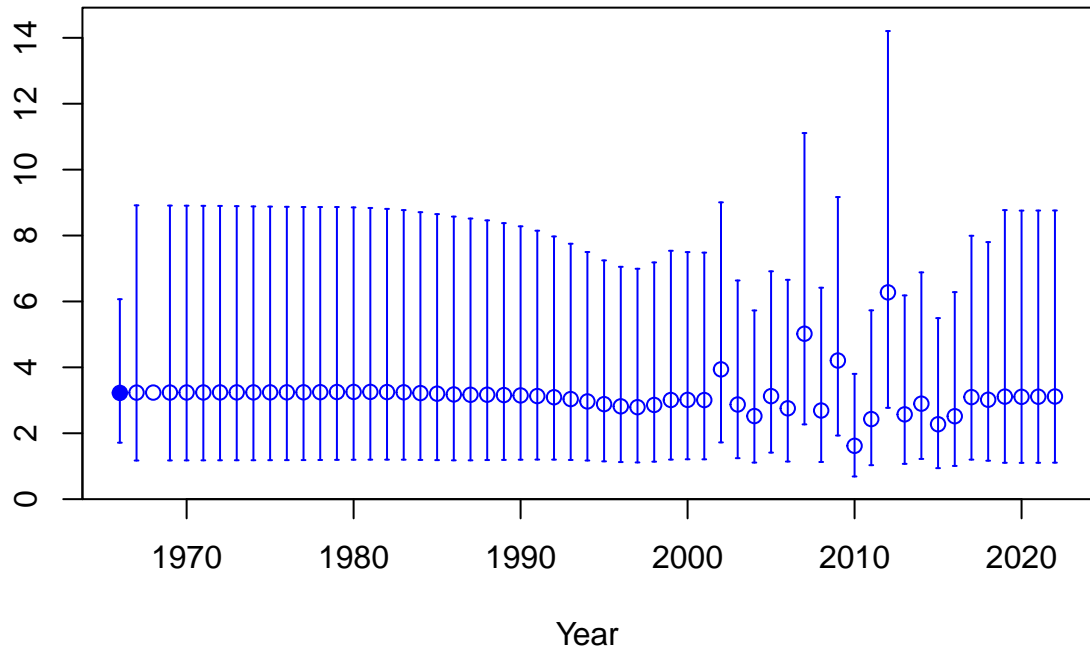




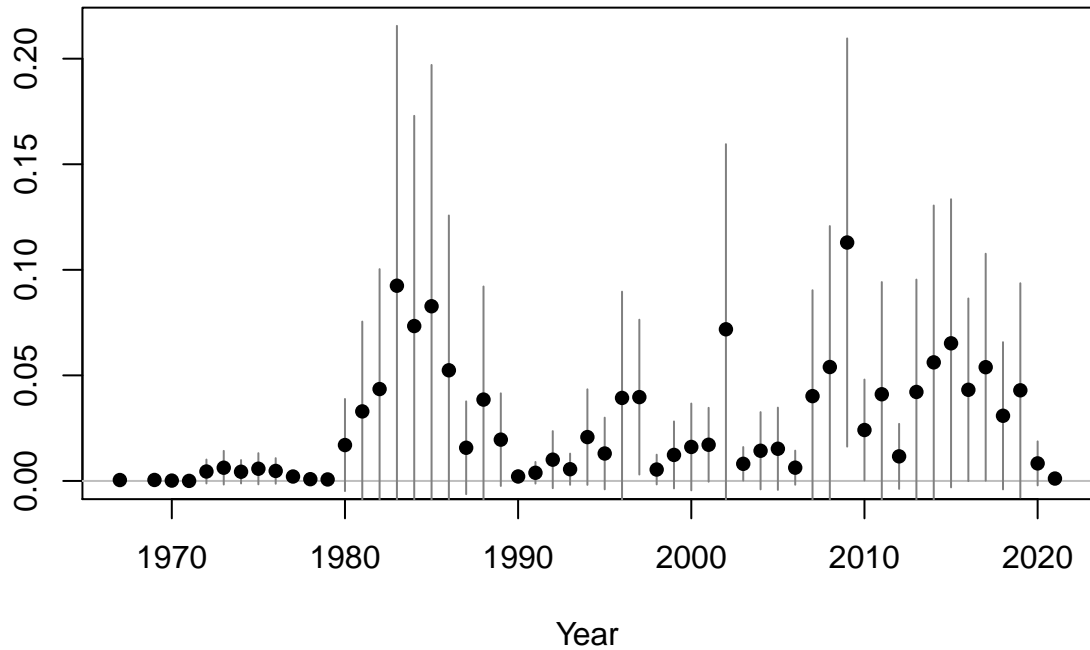
Age-0 recruits (1,000s)

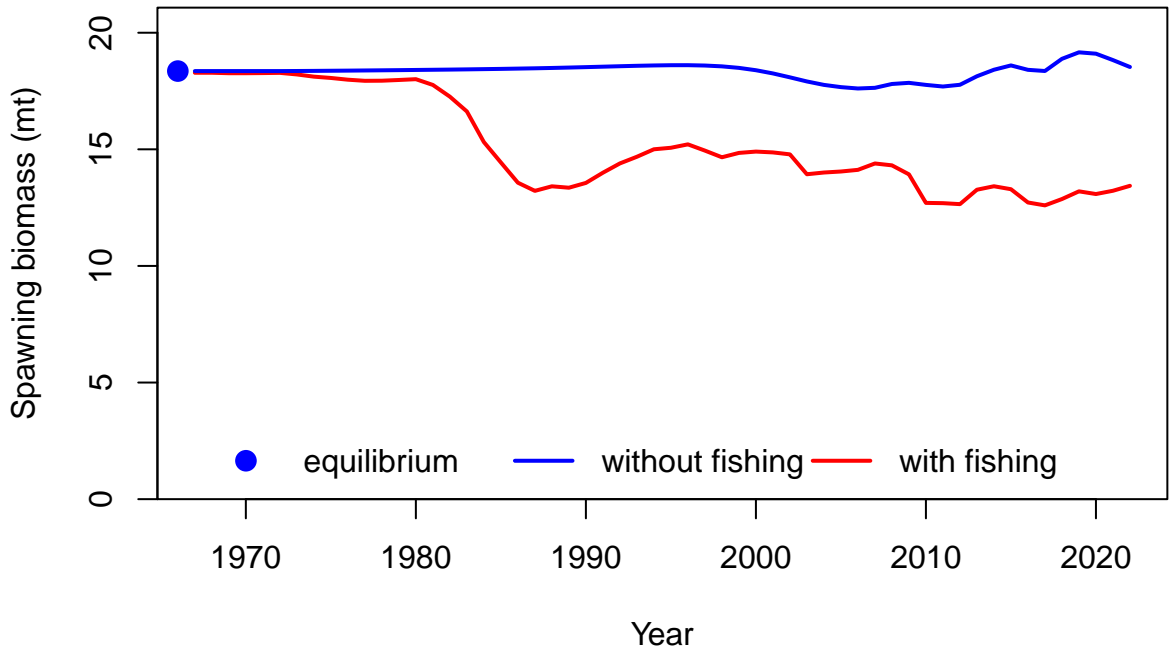


Age-0 recruits (1,000s)

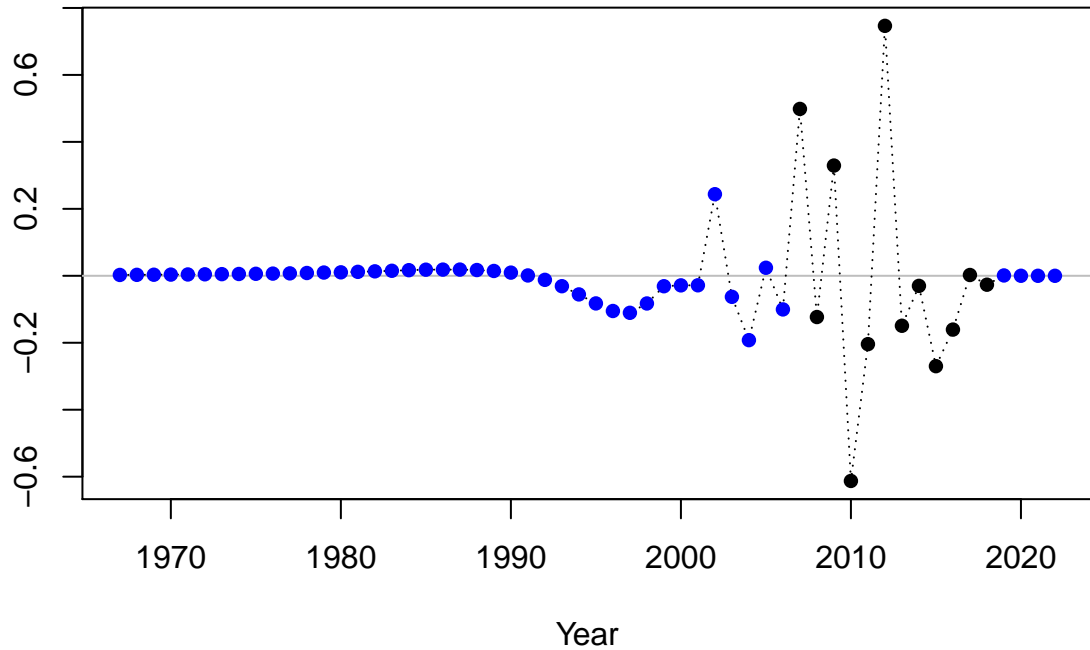


Summary Fishing Mortality

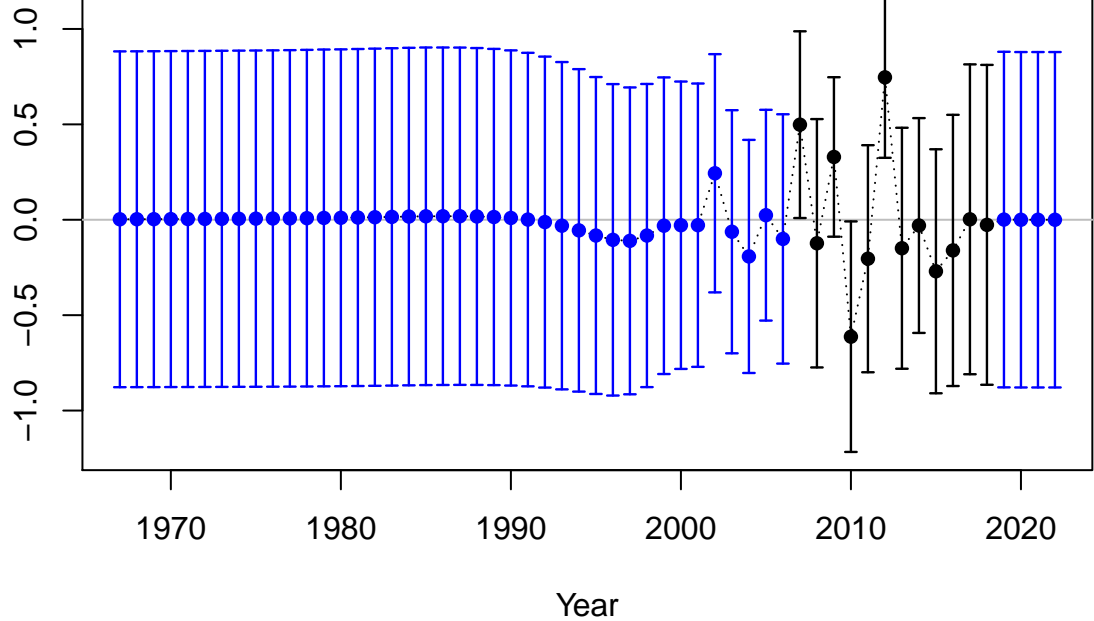




Log recruitment deviation

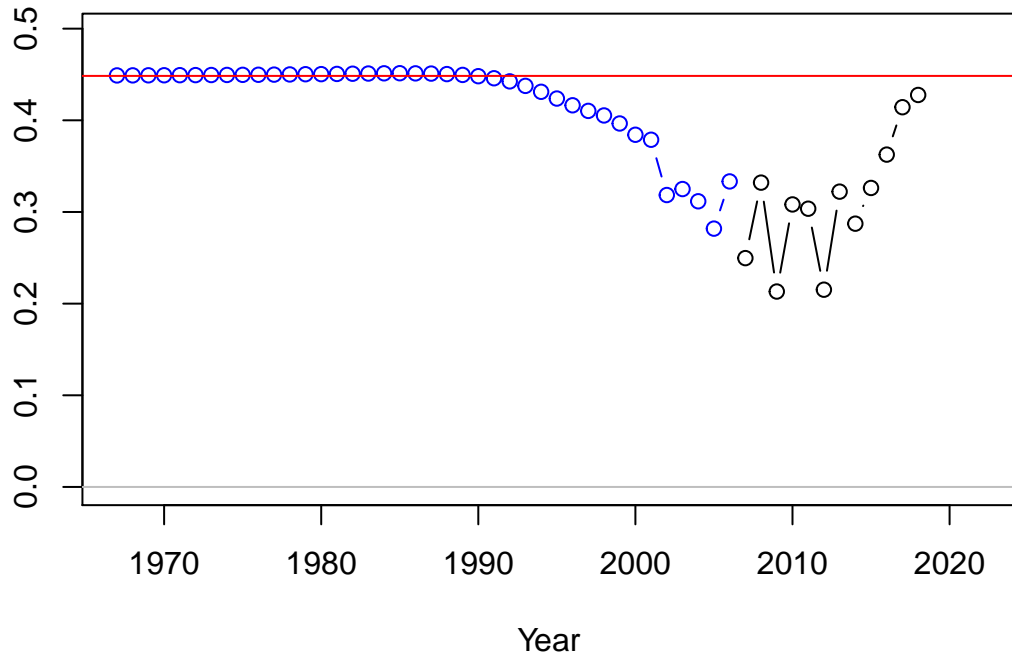


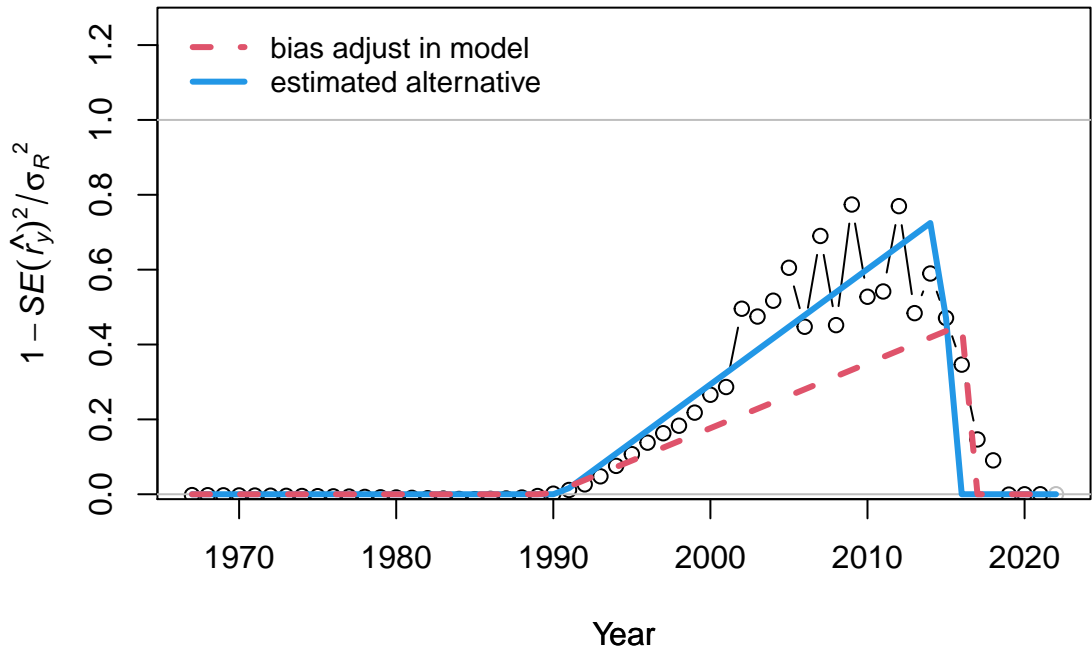
Log recruitment deviation

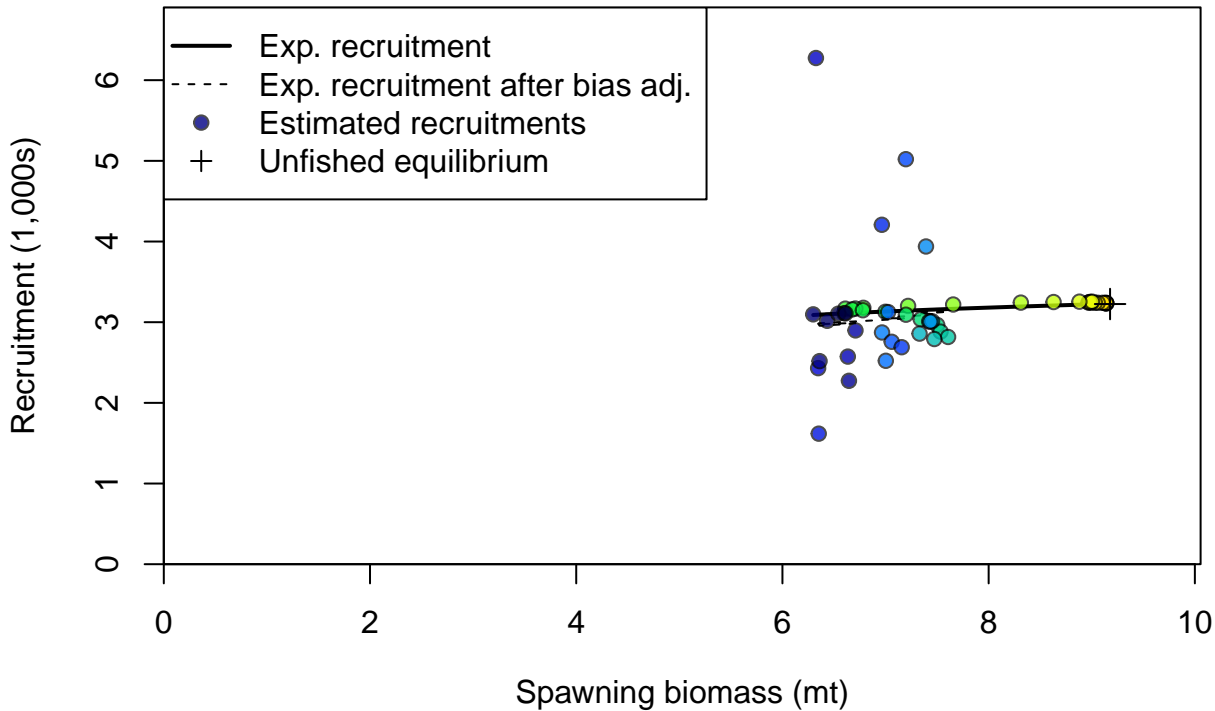


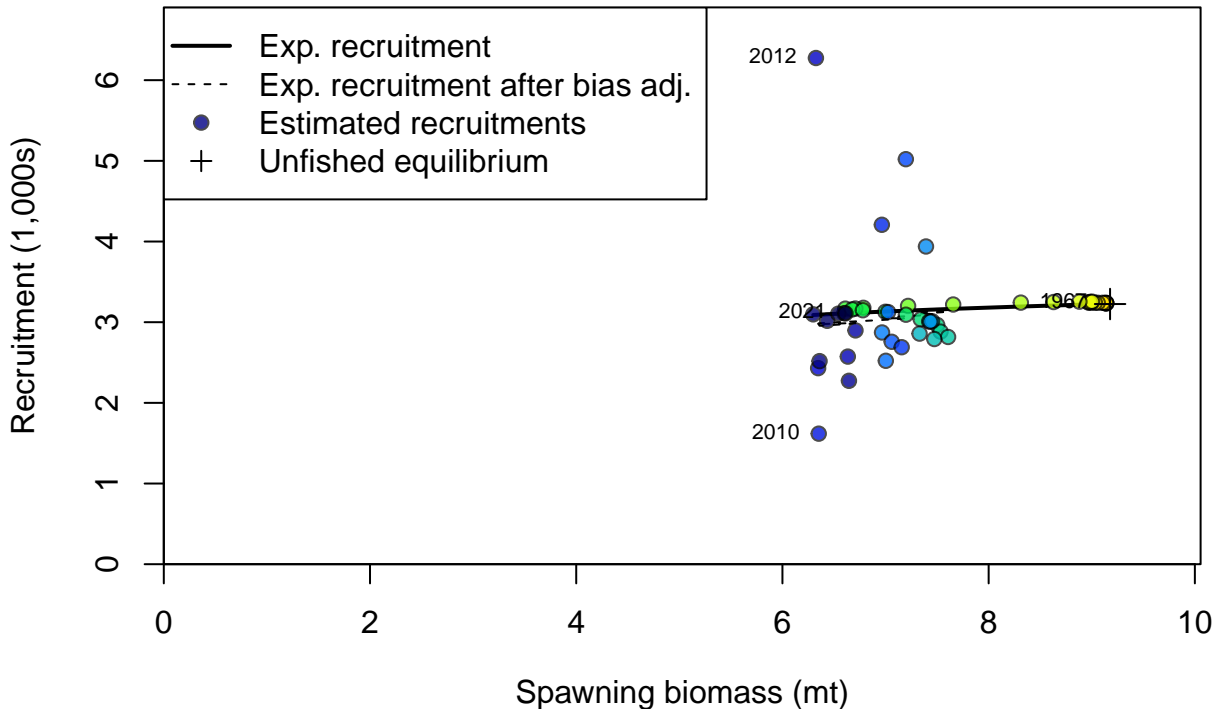
Recruitment deviation variance

Asymptotic standard error estimate









Log recruitment deviation

0.0

-0.5

2012

2021

2010

1967

0.0

0.2

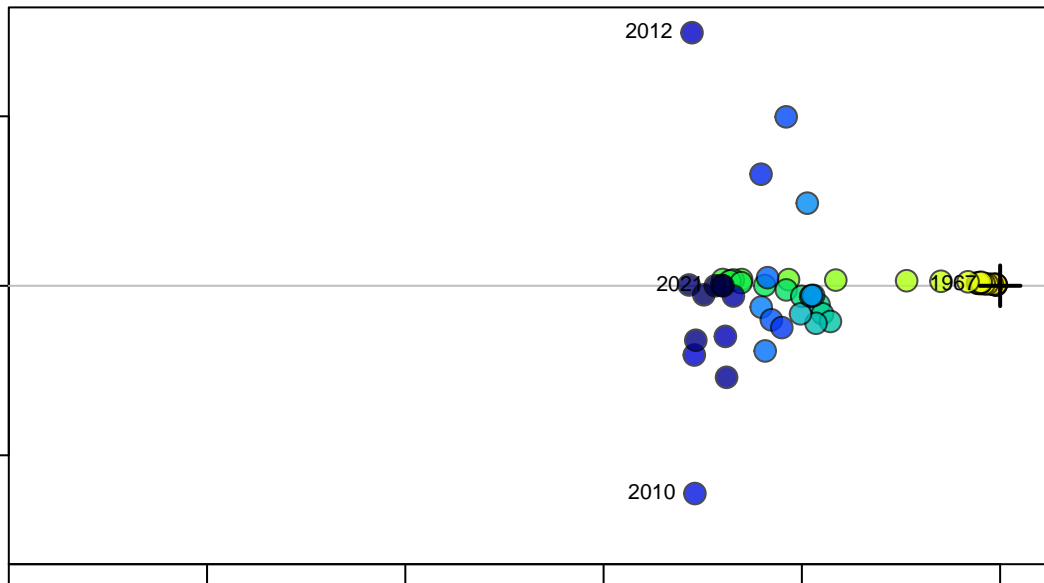
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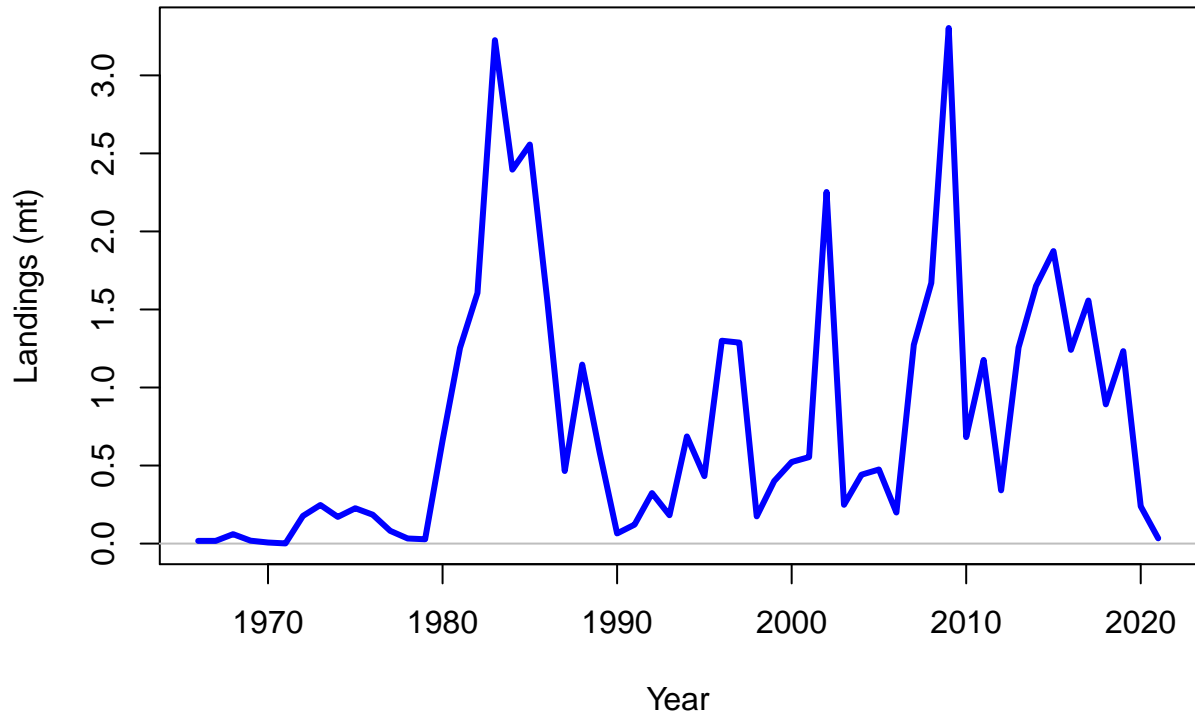
0.6

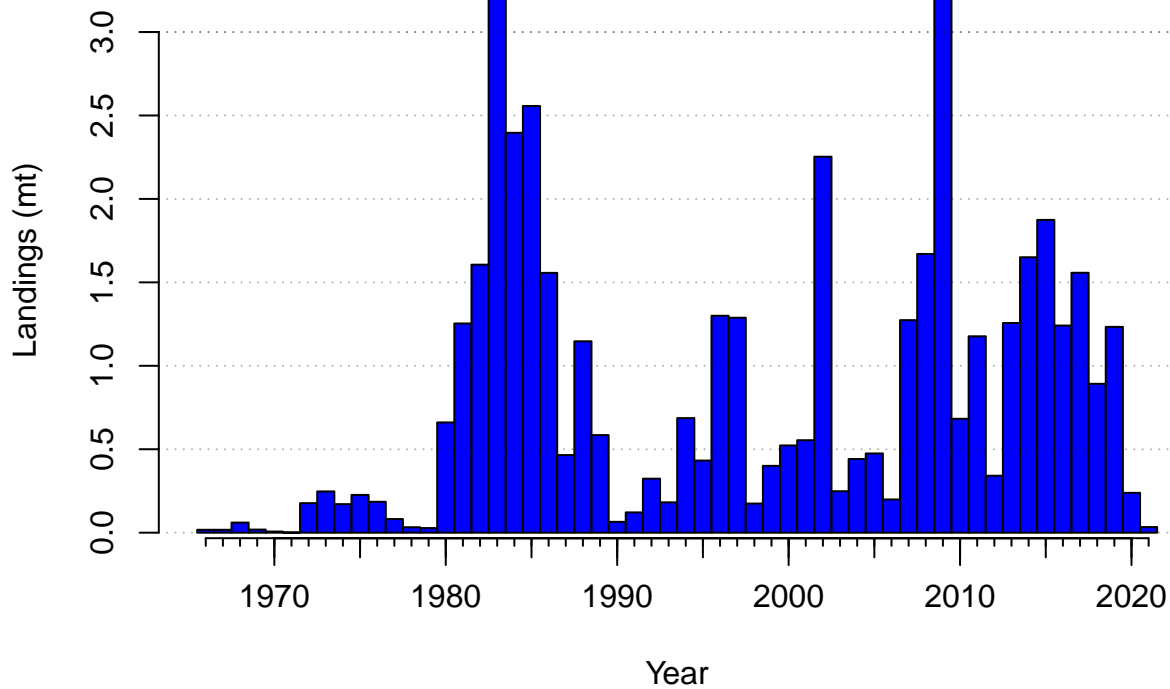
0.8

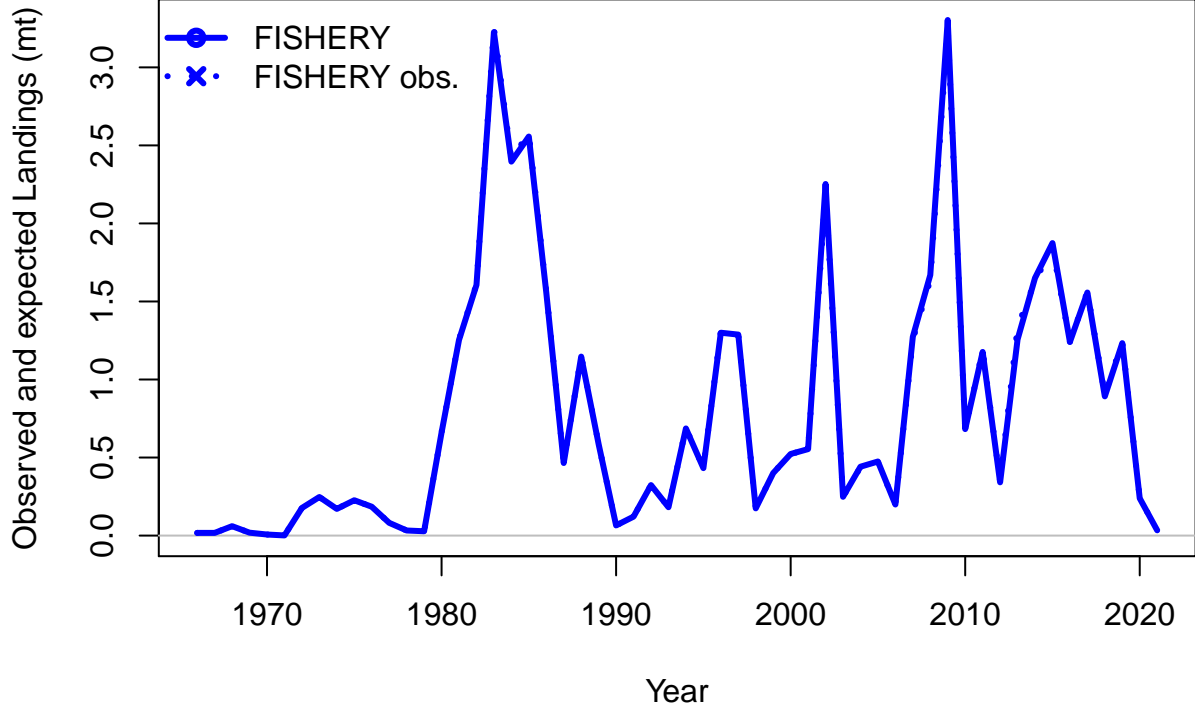
1.0

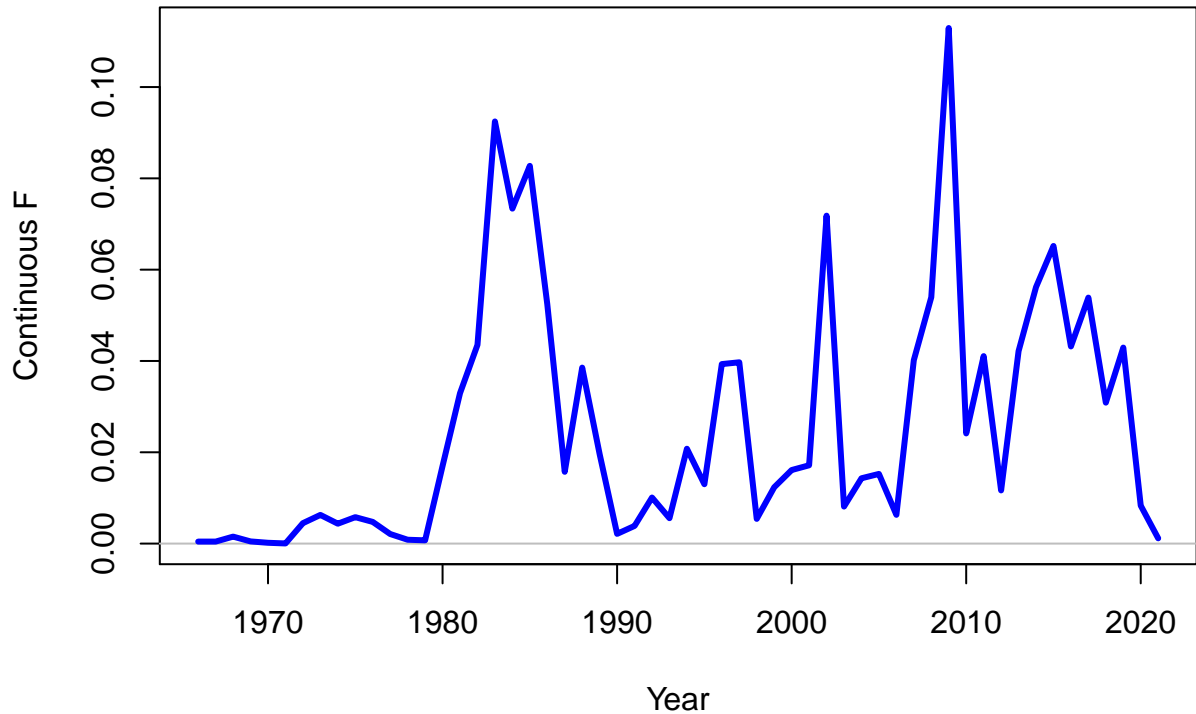
Spawning output (relative to B_0)



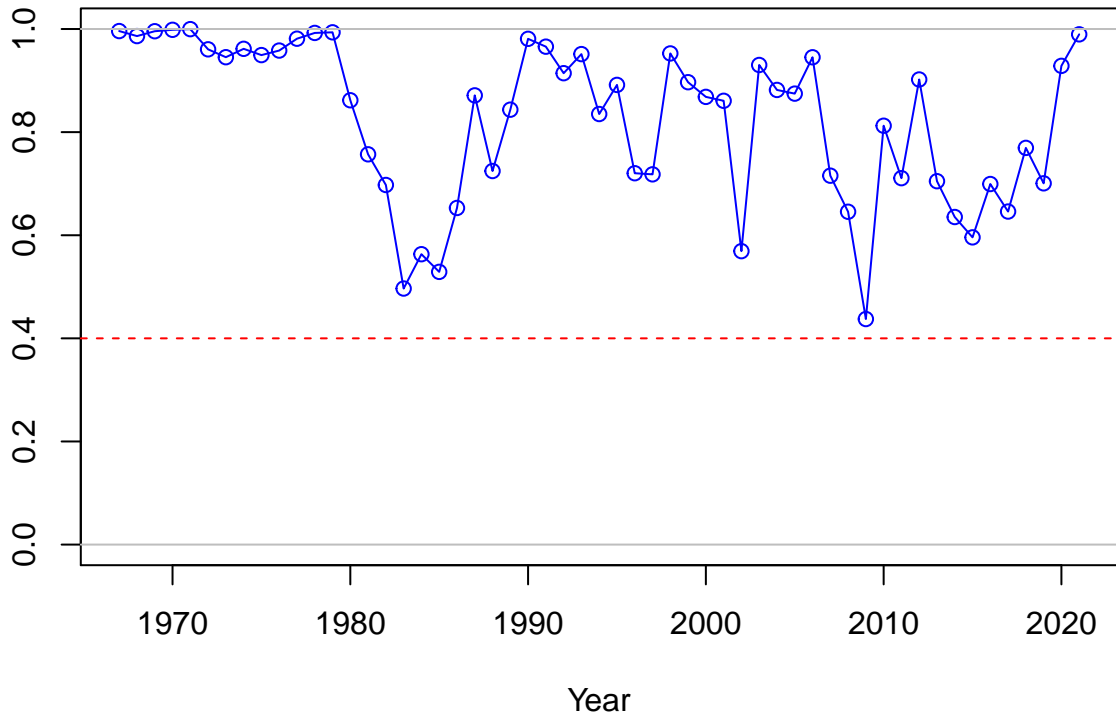




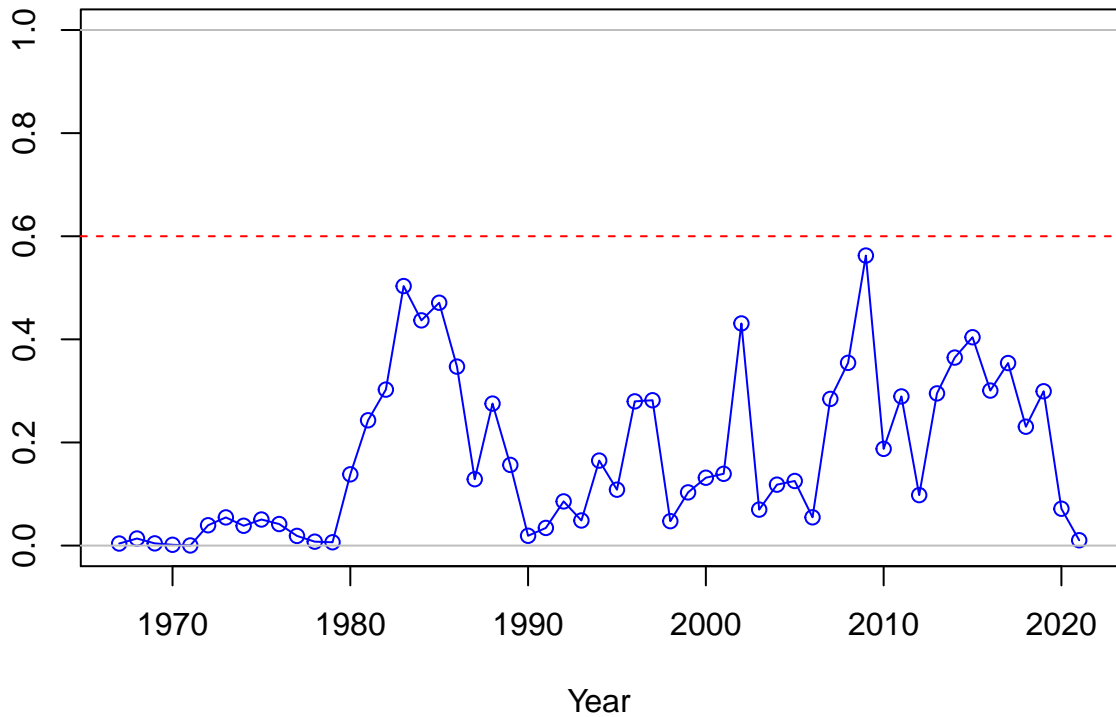




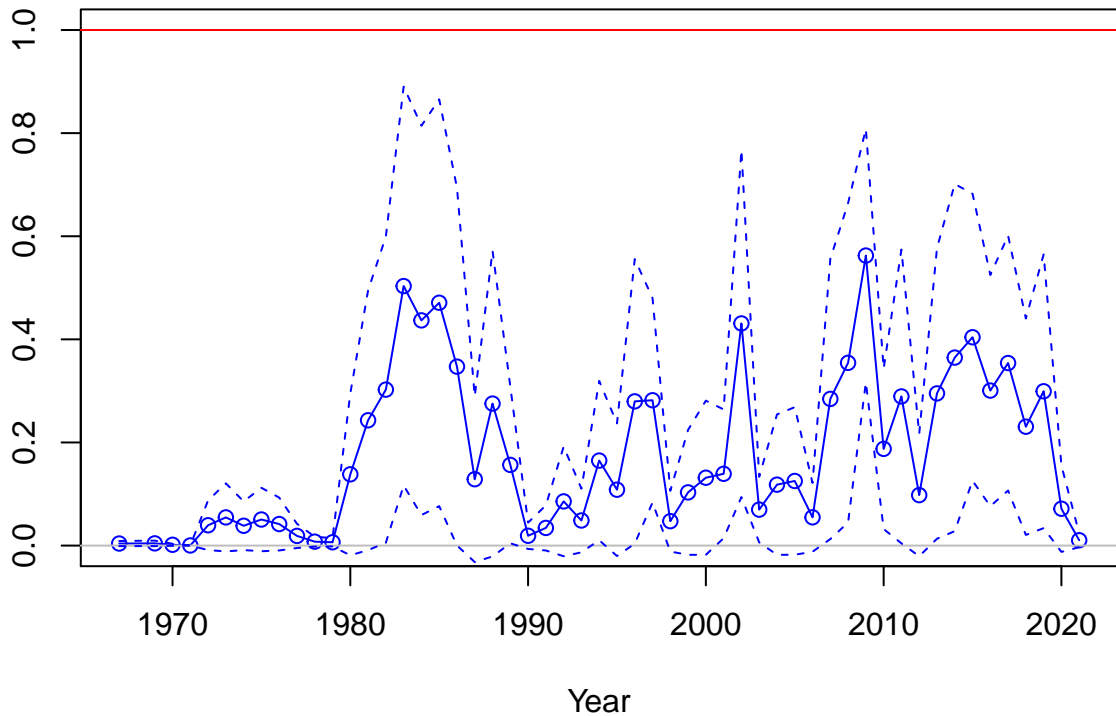
SPR



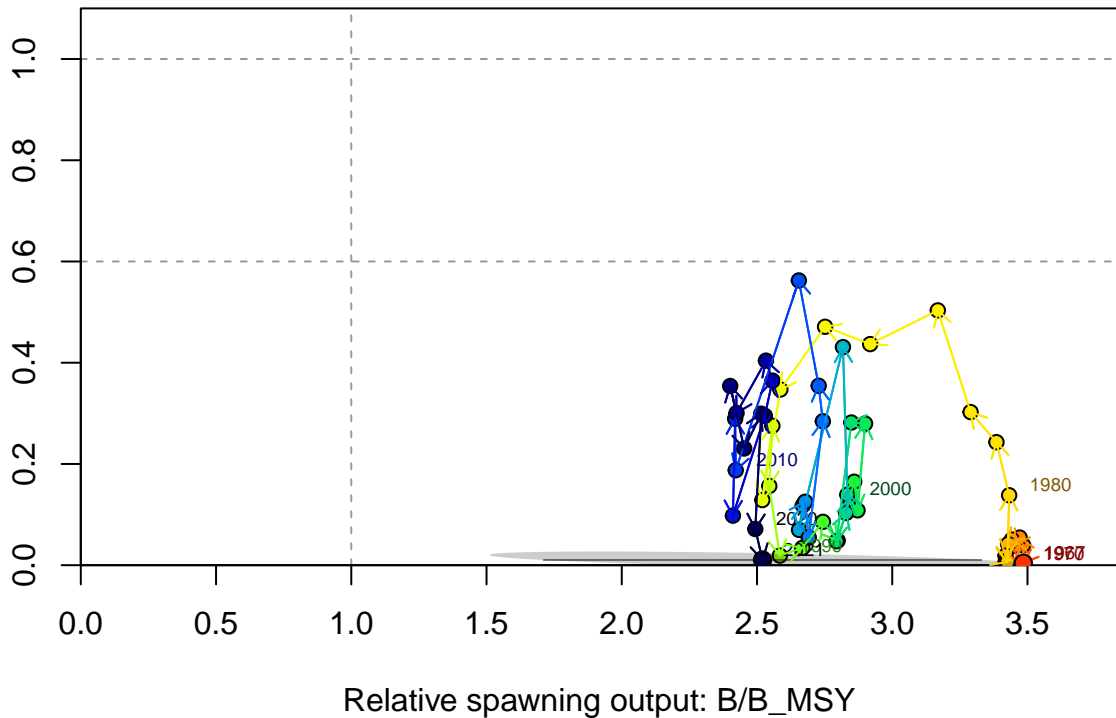
1-SPR

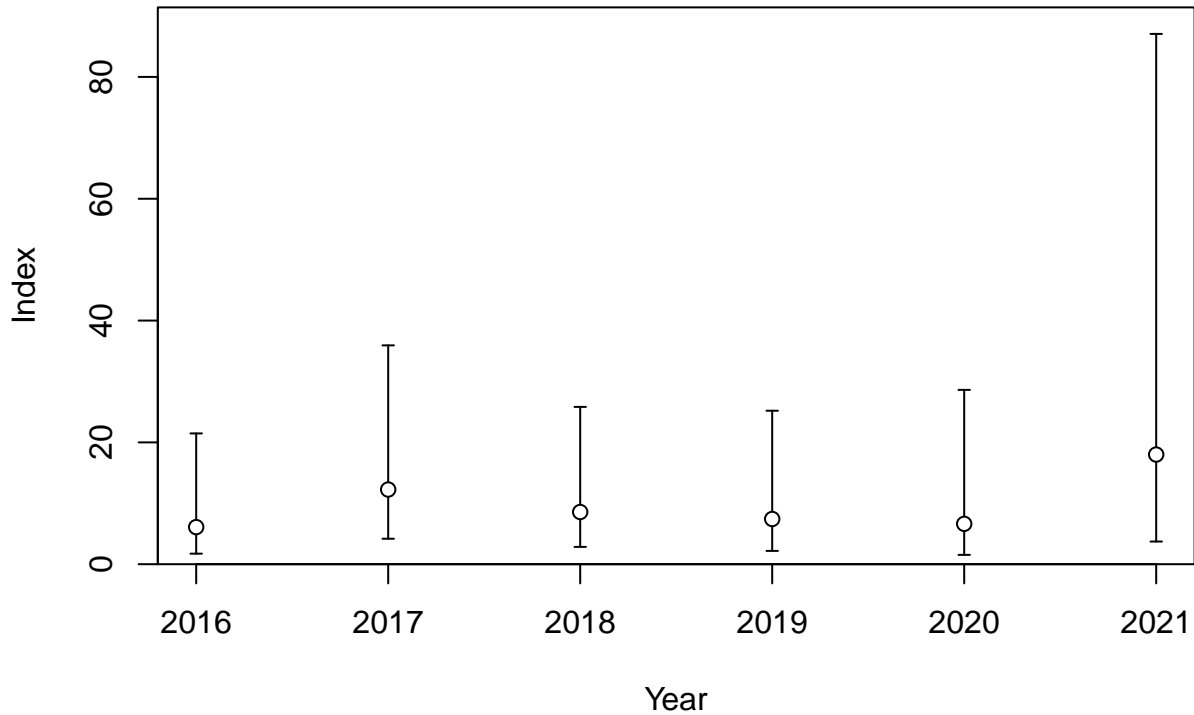


Fishing intensity: 1-SPR

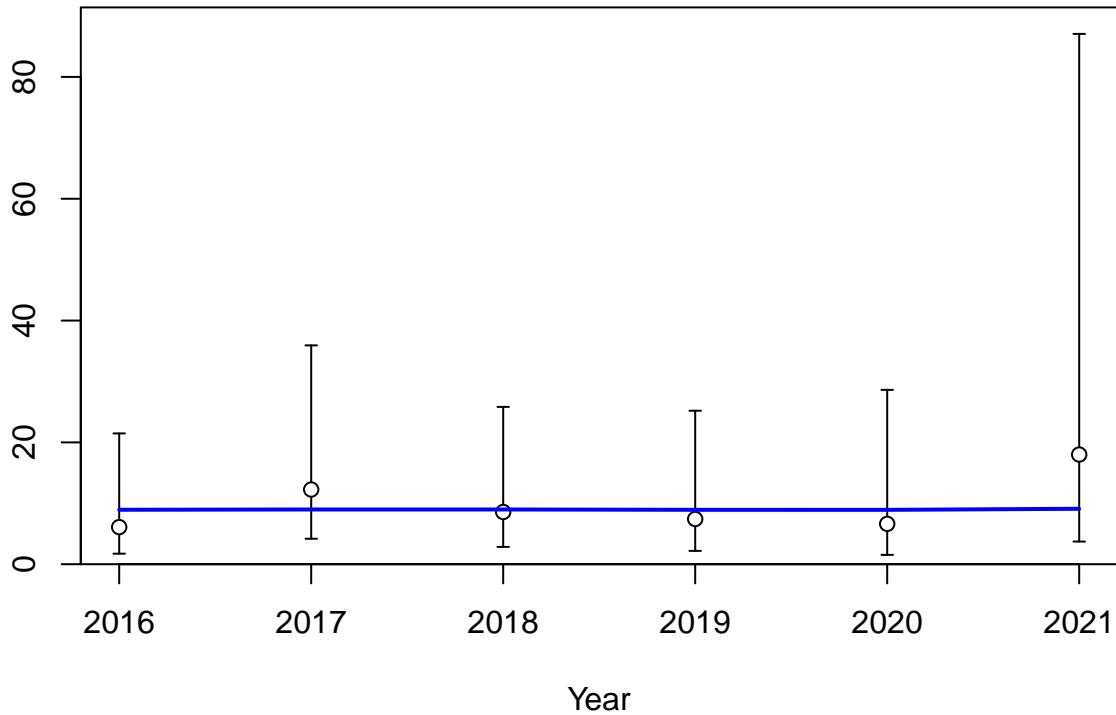


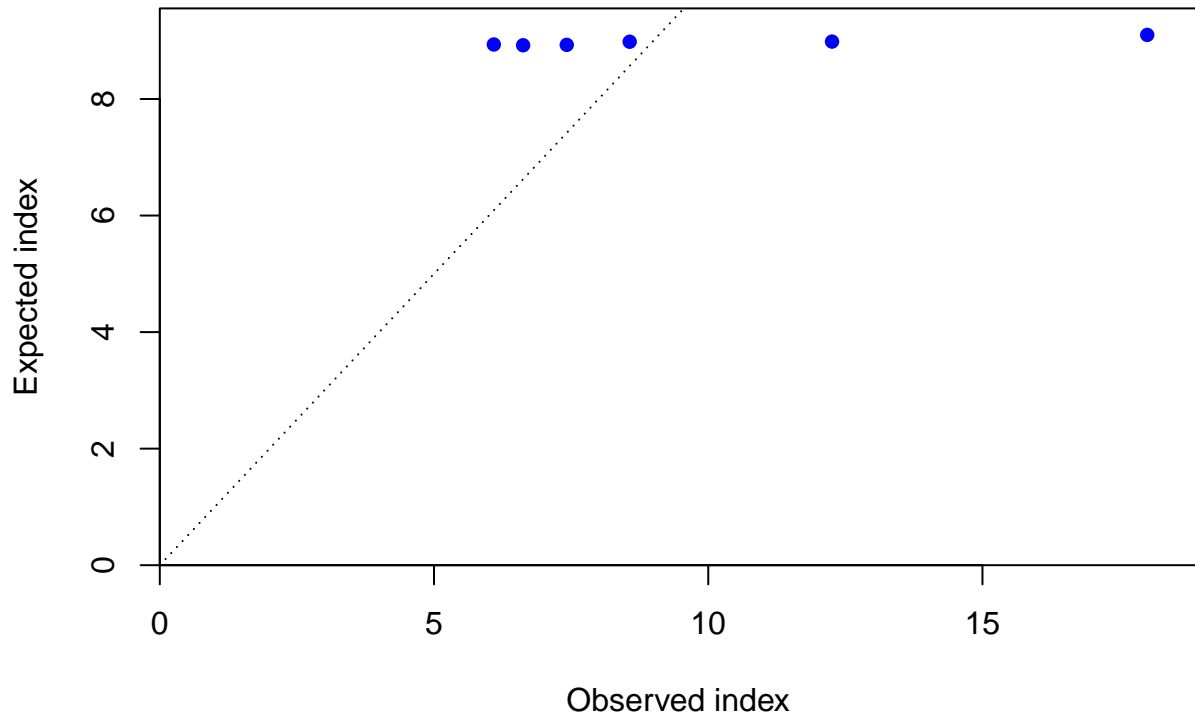
Fishing intensity: 1-SPR

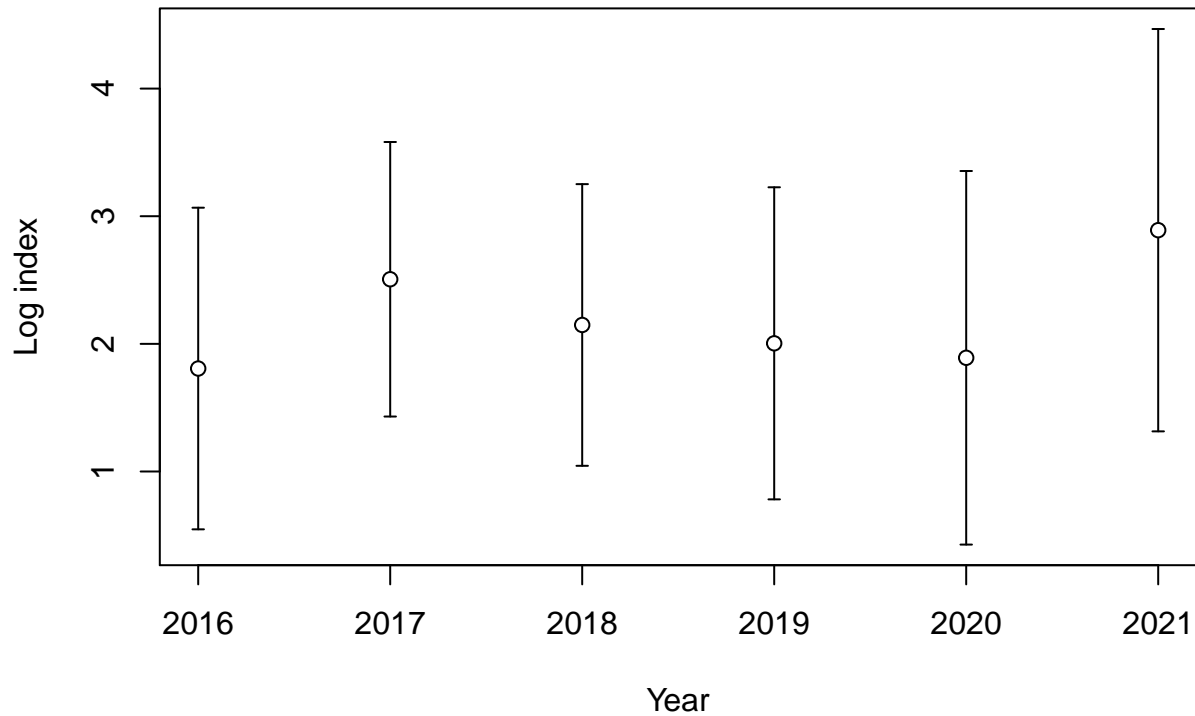


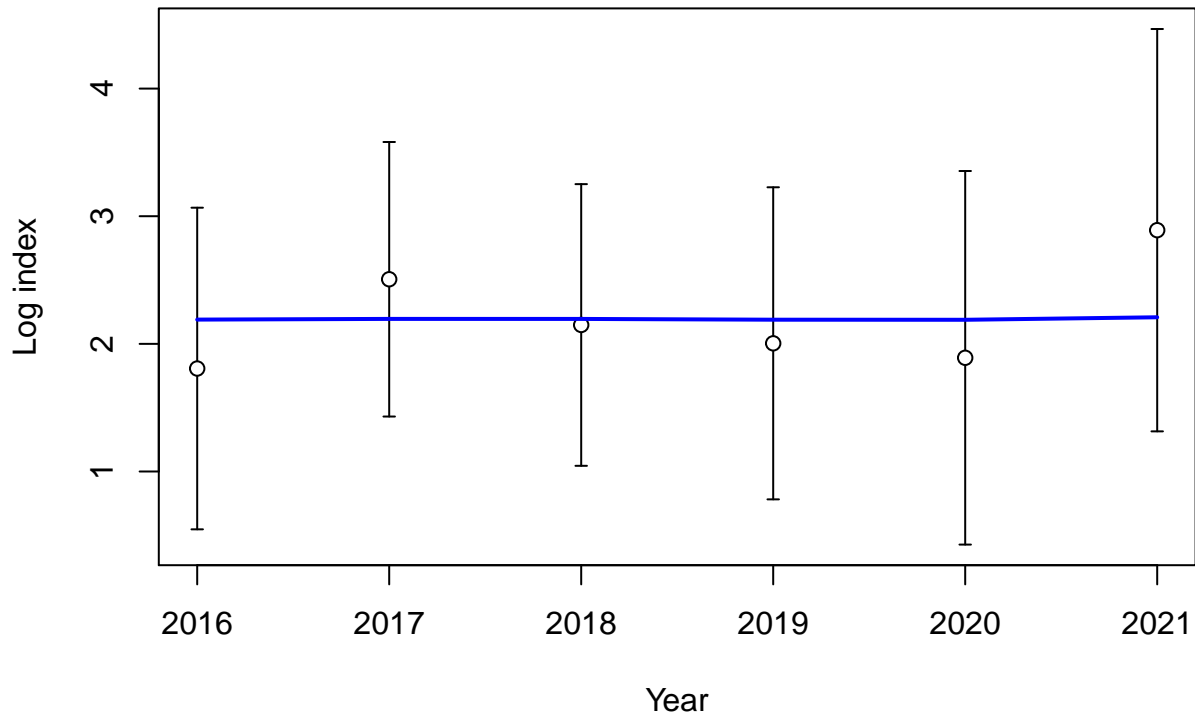


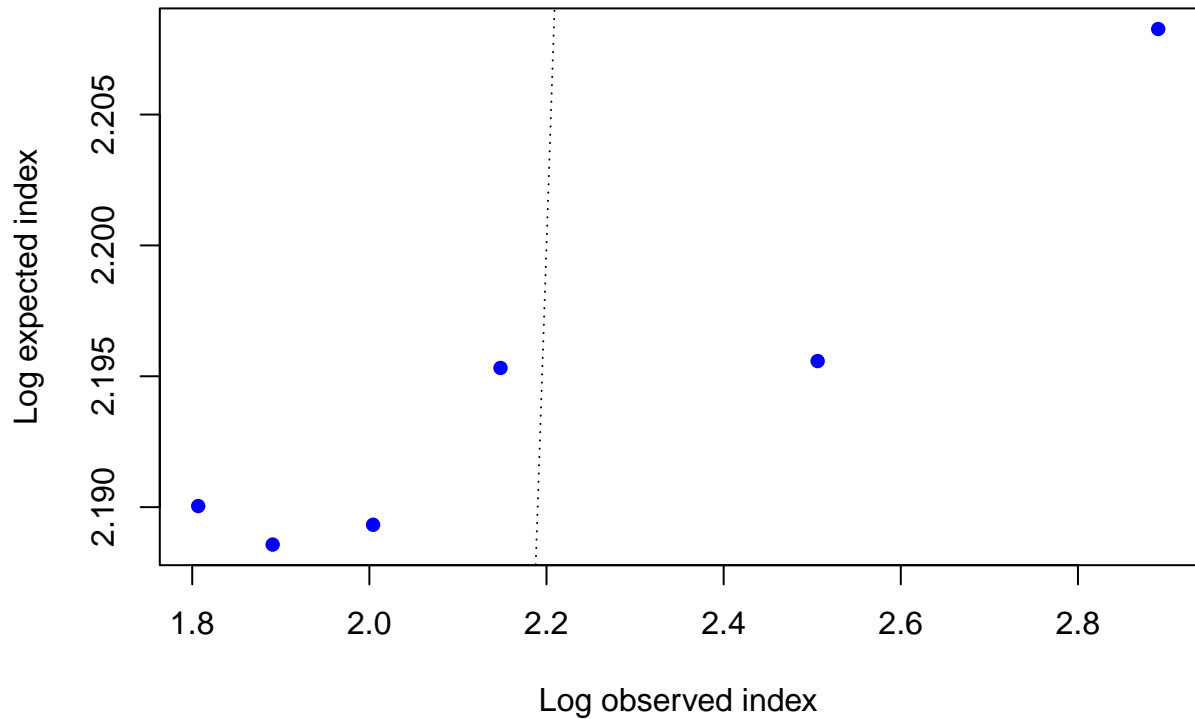
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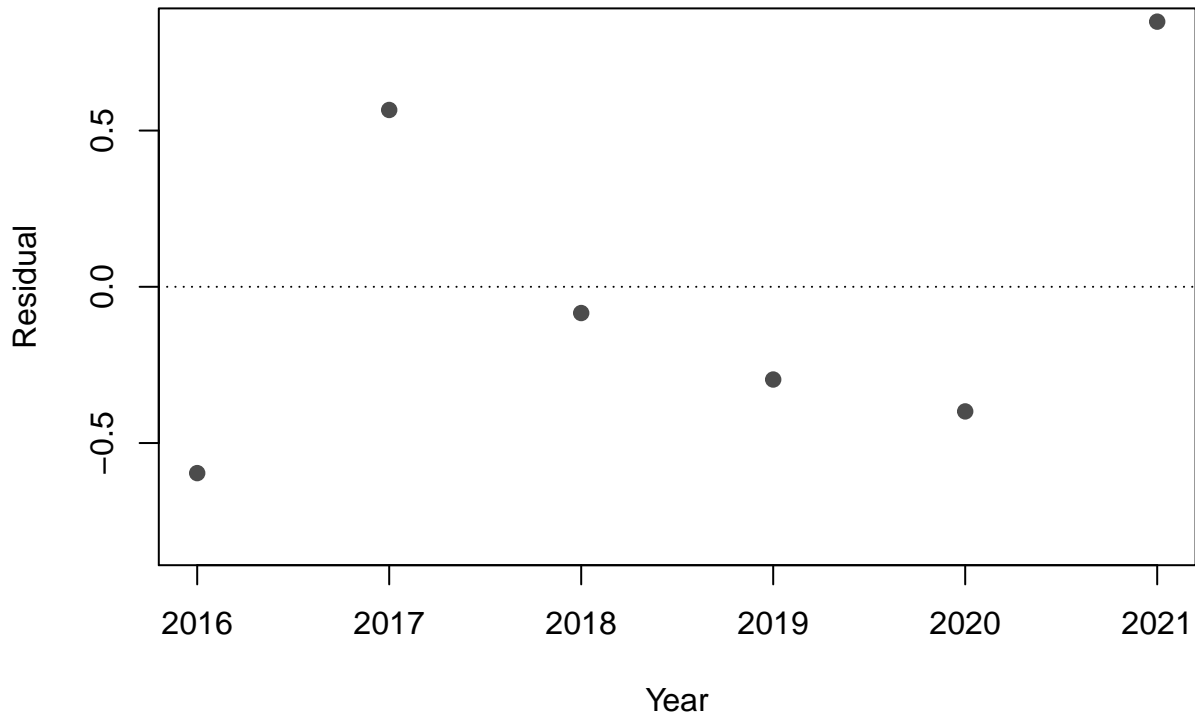


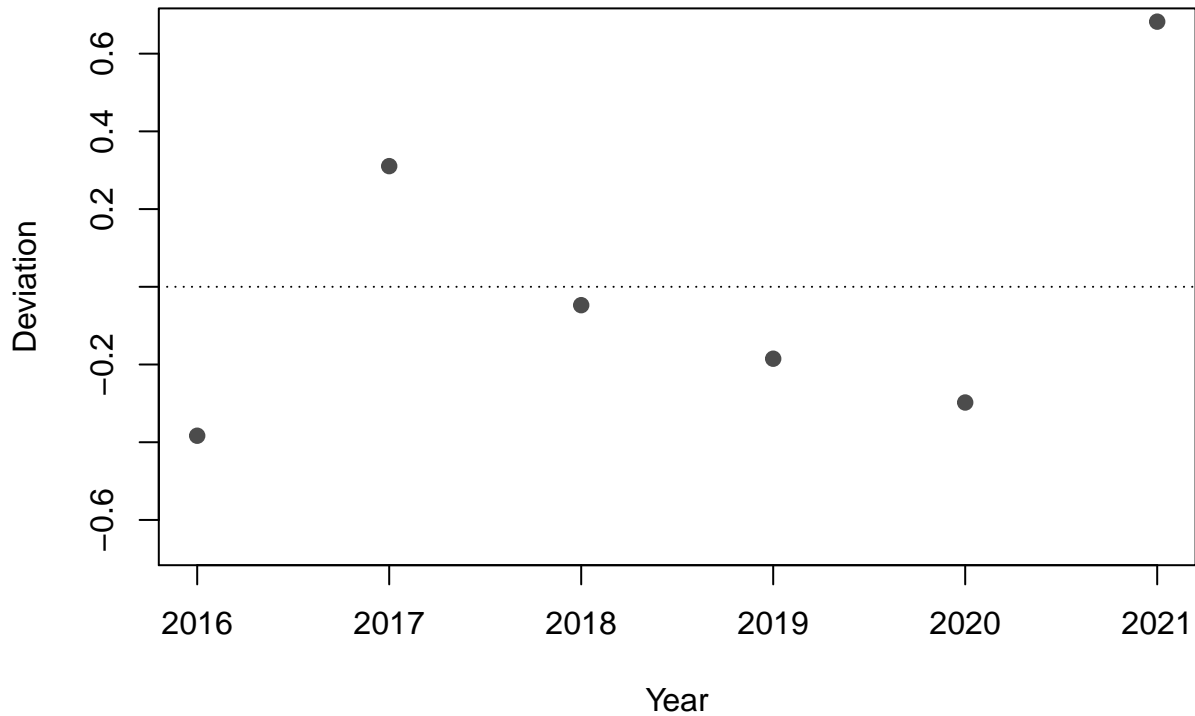


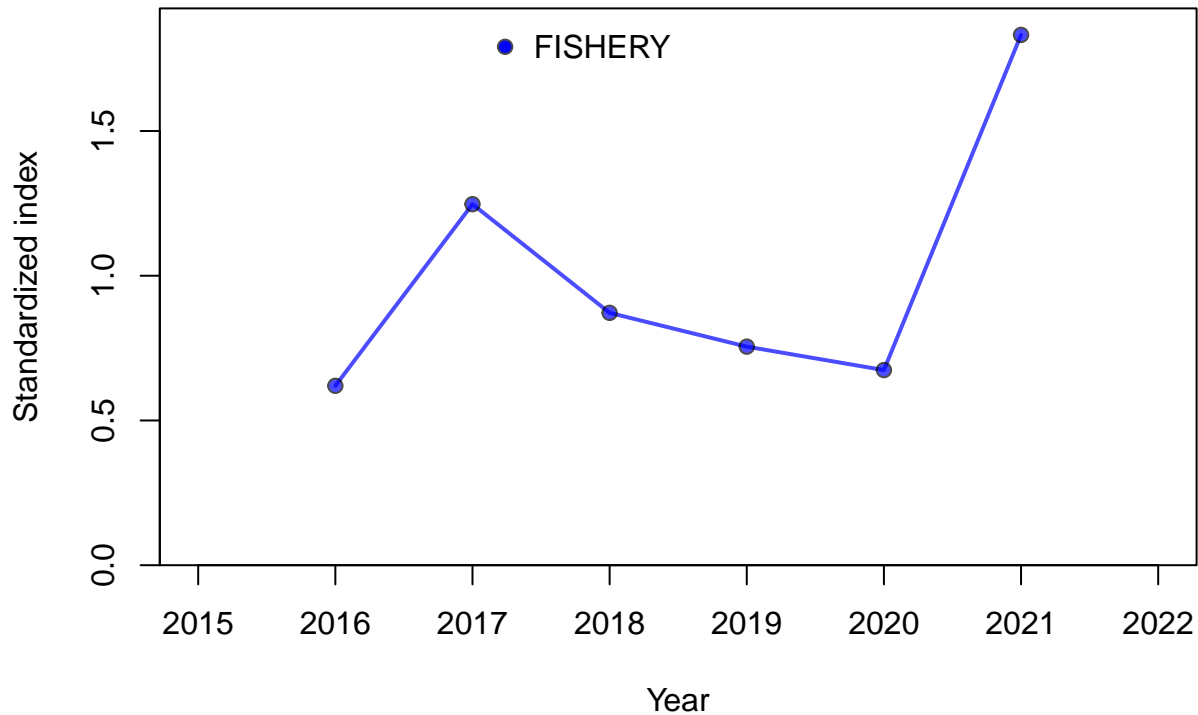


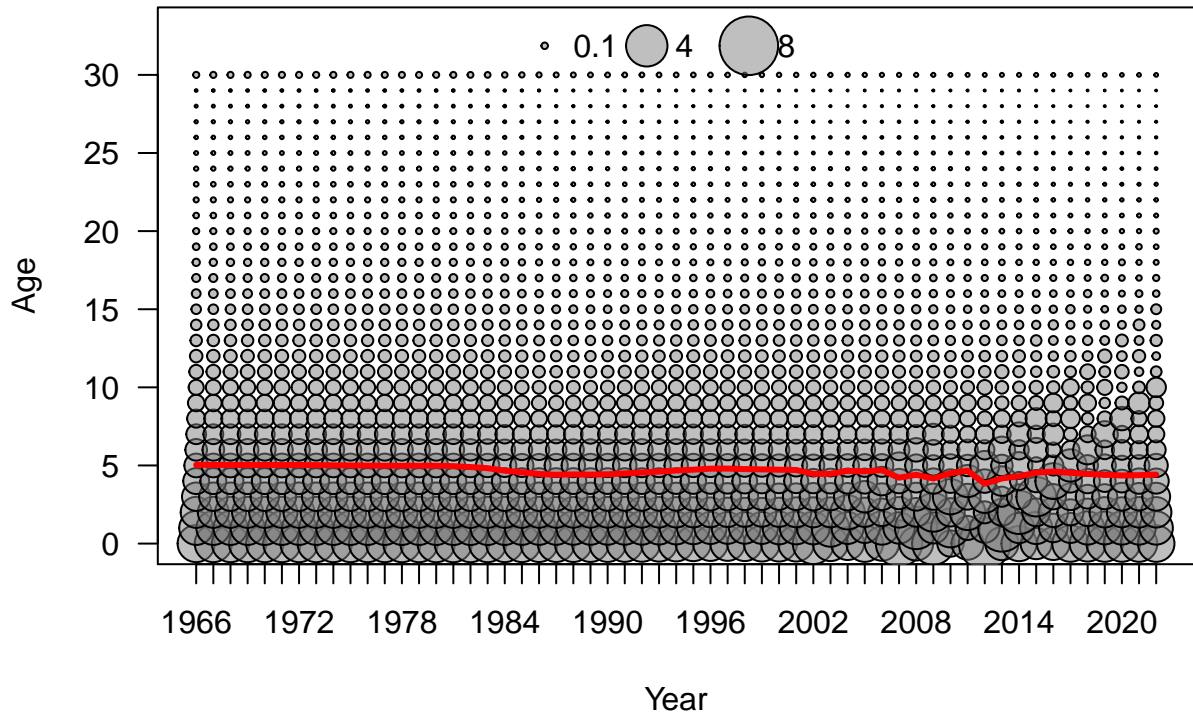


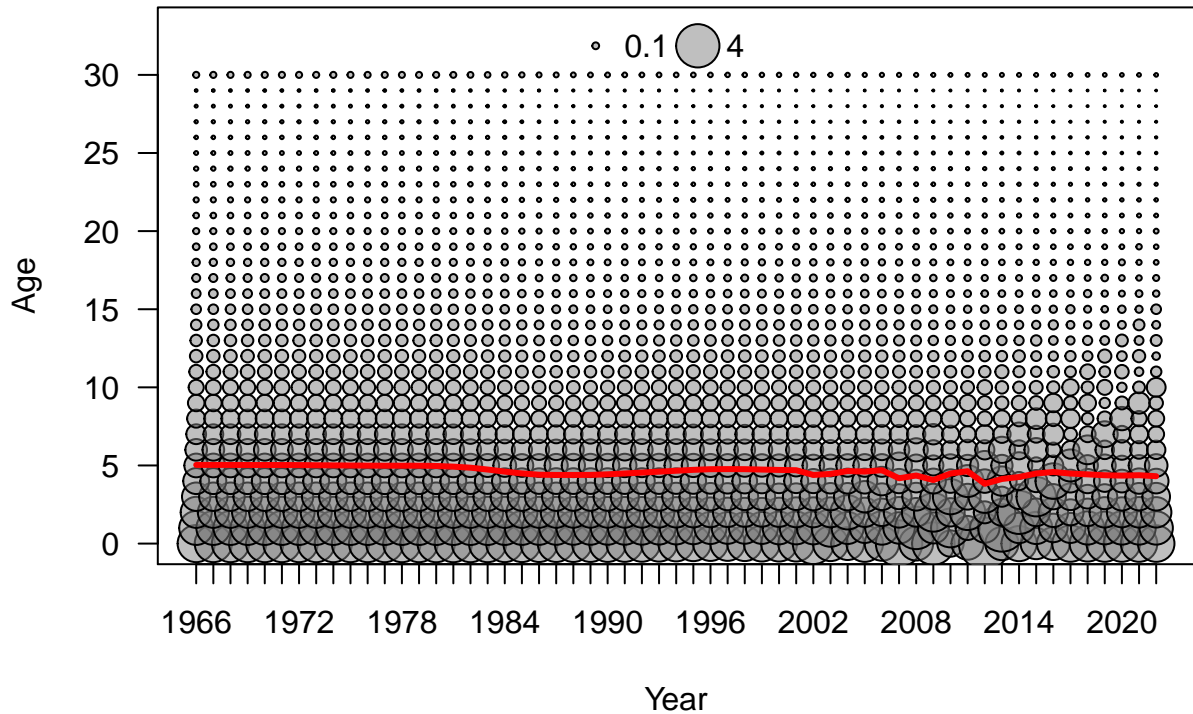


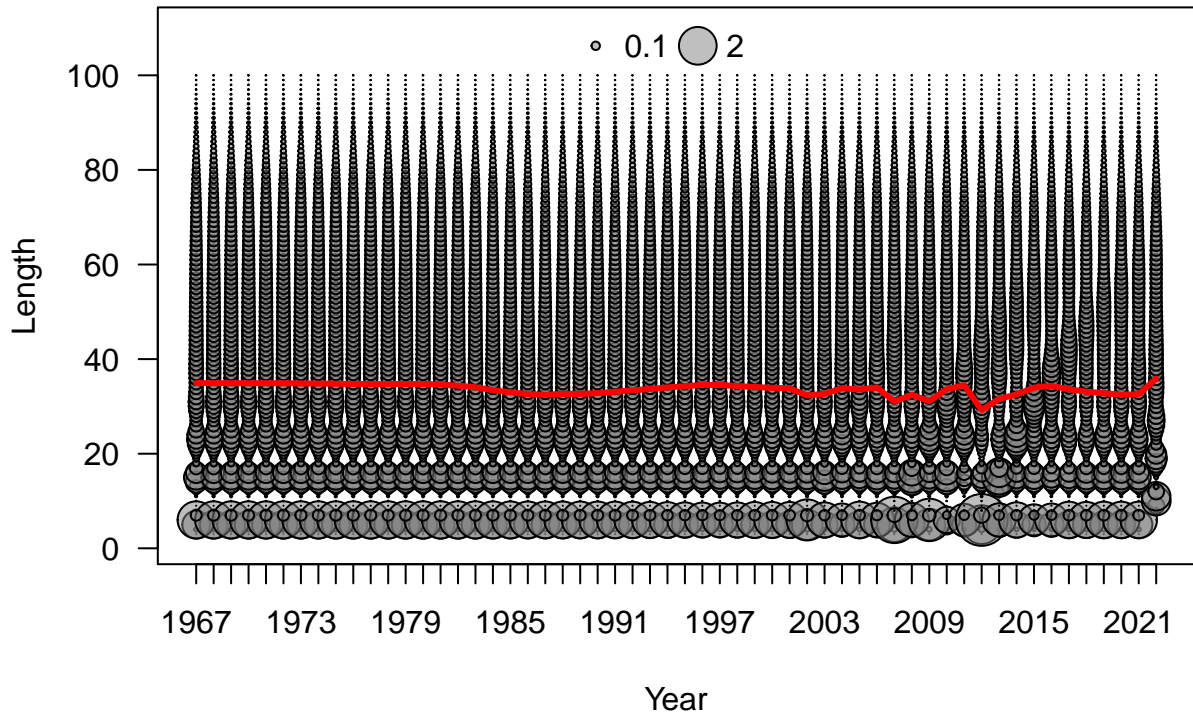


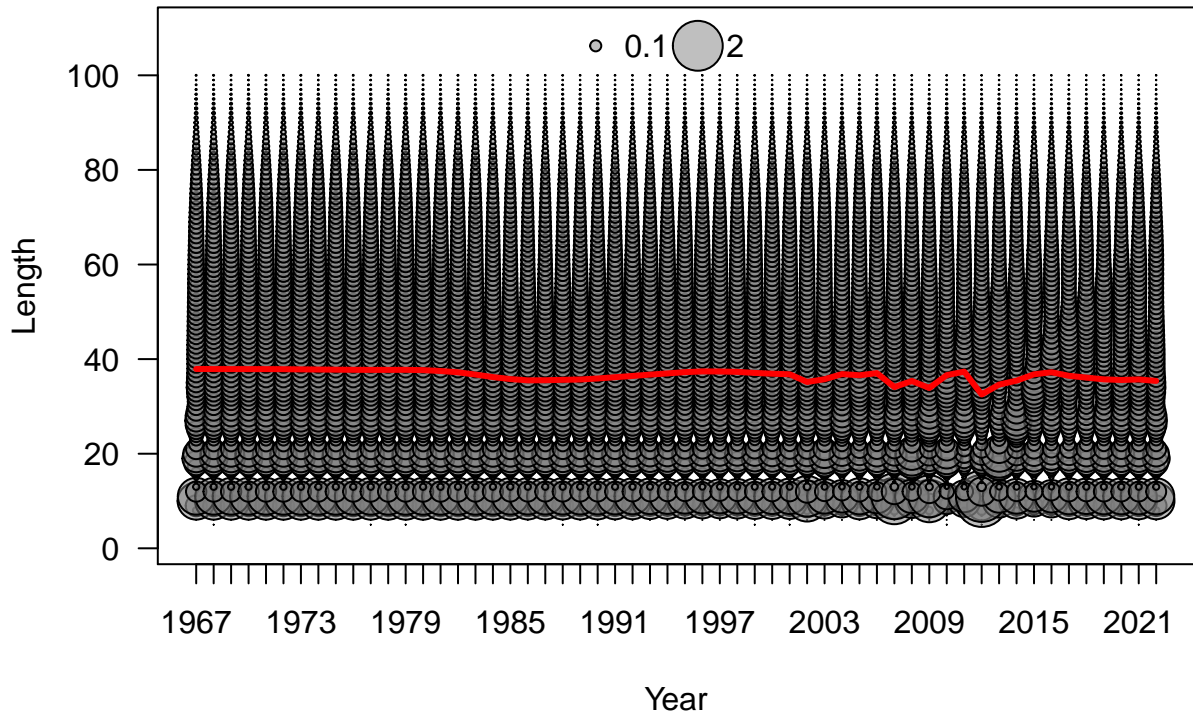


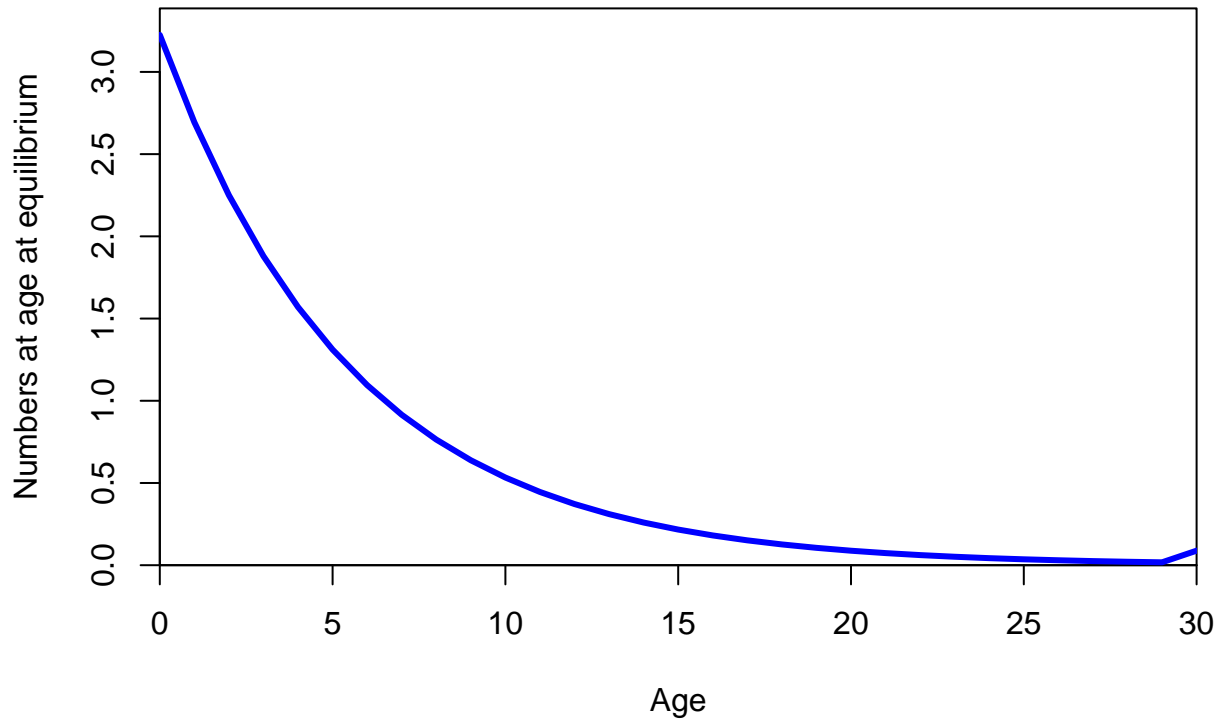






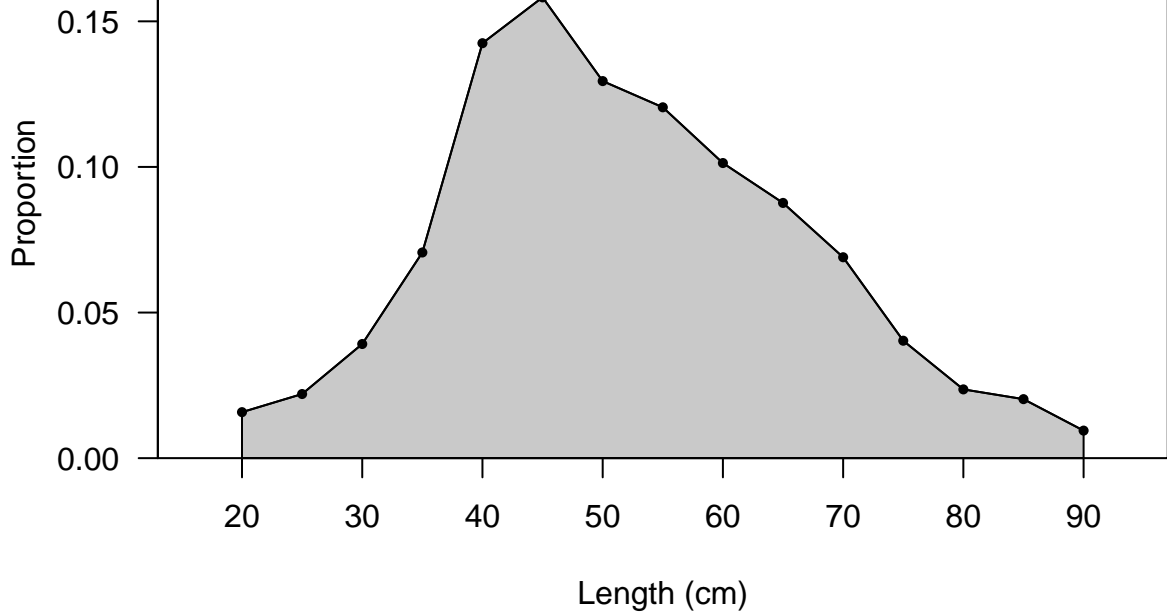






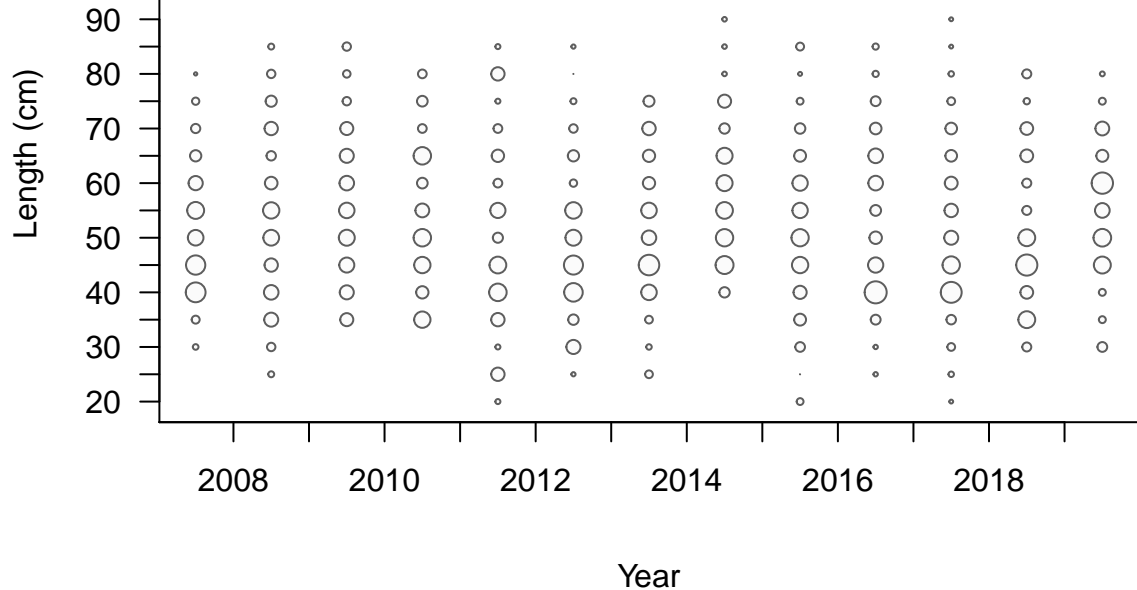
FISHERY

Sum of N adj.=983.4

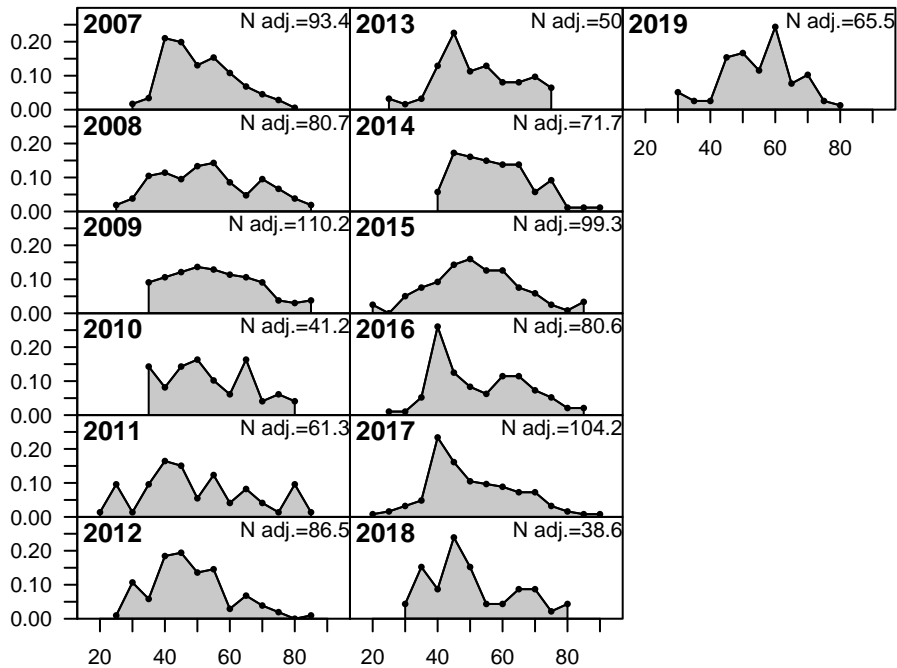


FISHERY

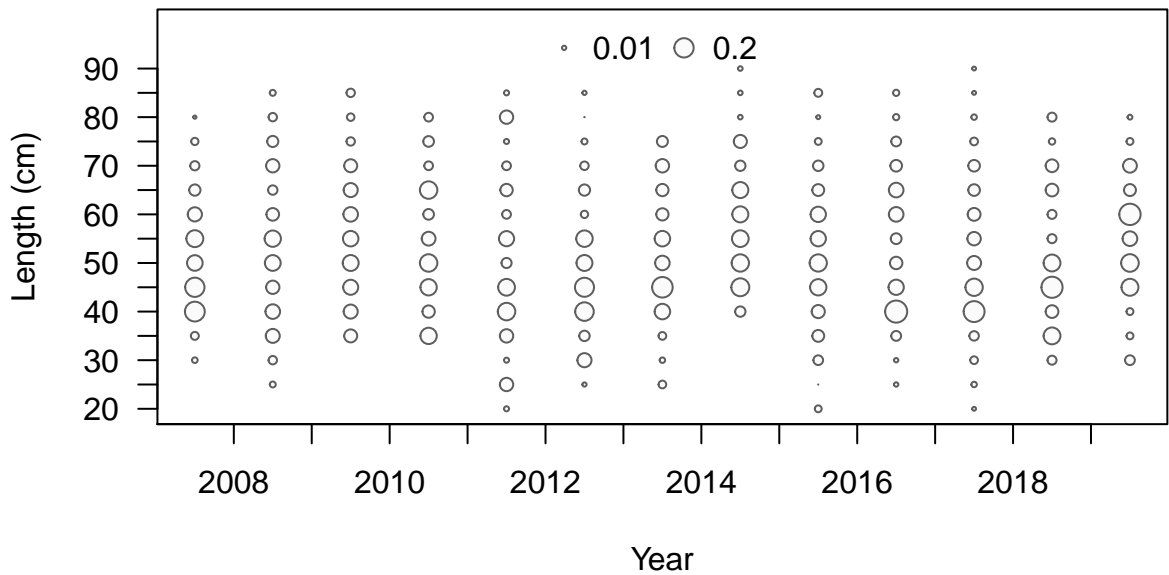
◦ 0.01 ○ 0.2



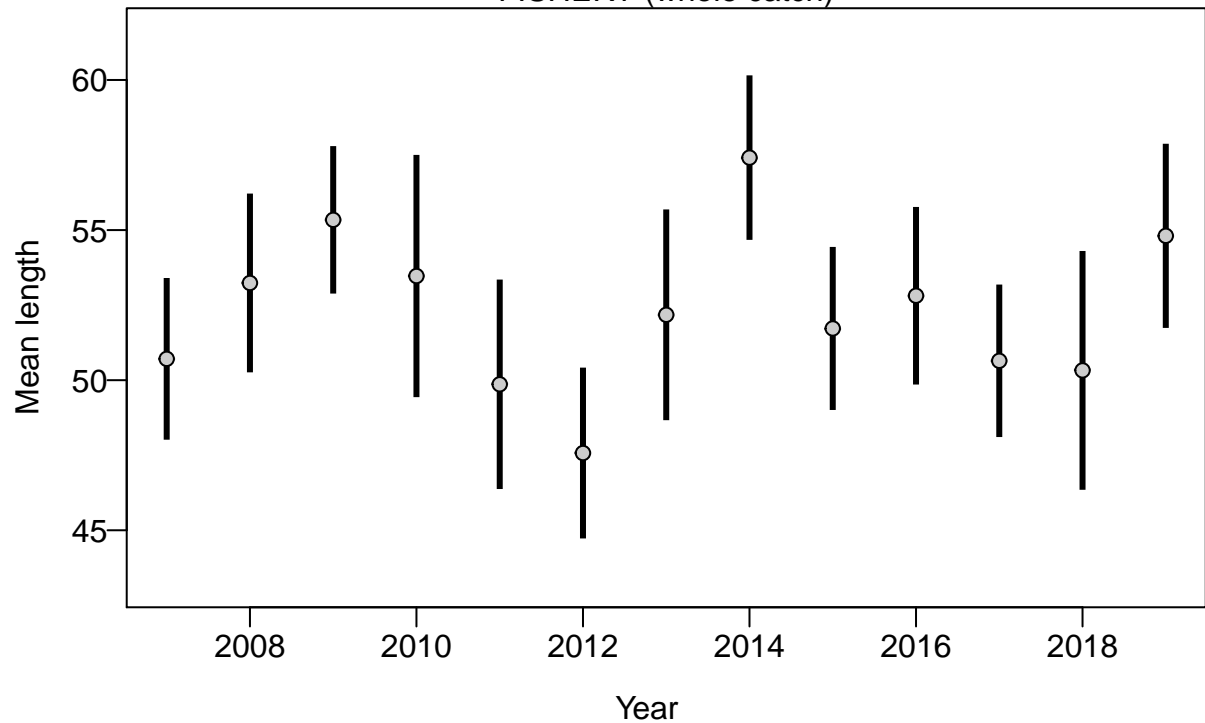
Proportion



Length (cm)

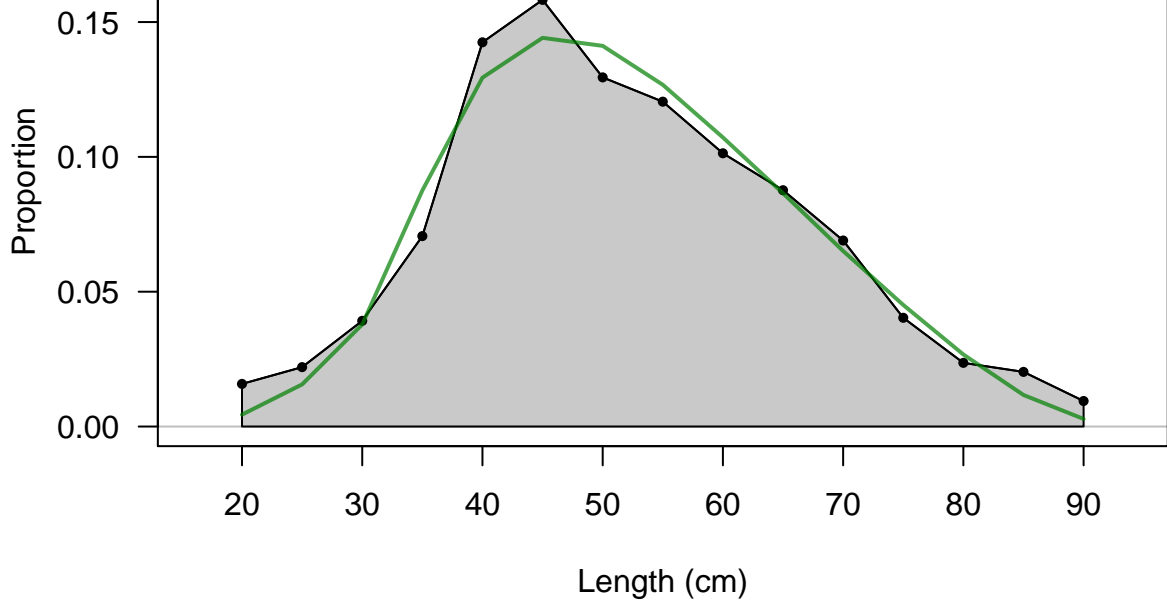


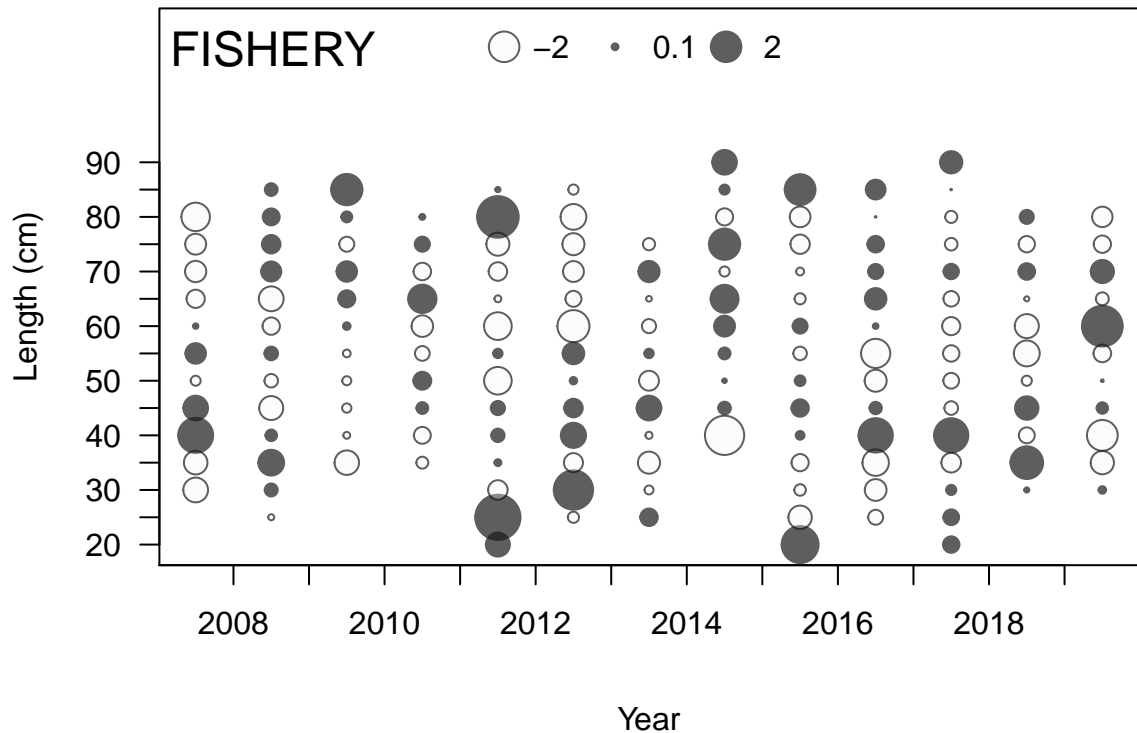
FISHERY (whole catch)



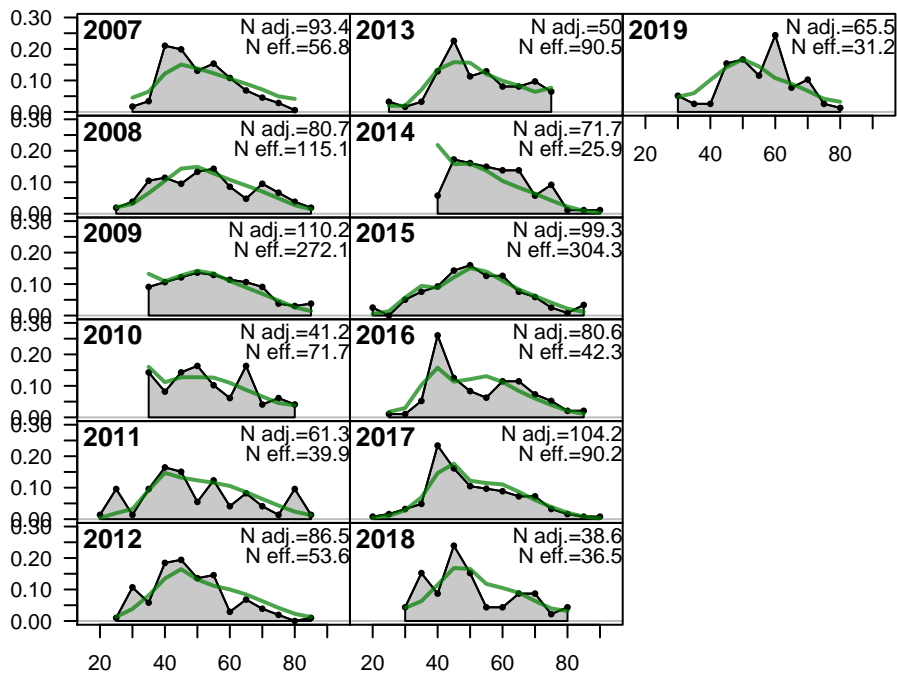
FISHERY

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

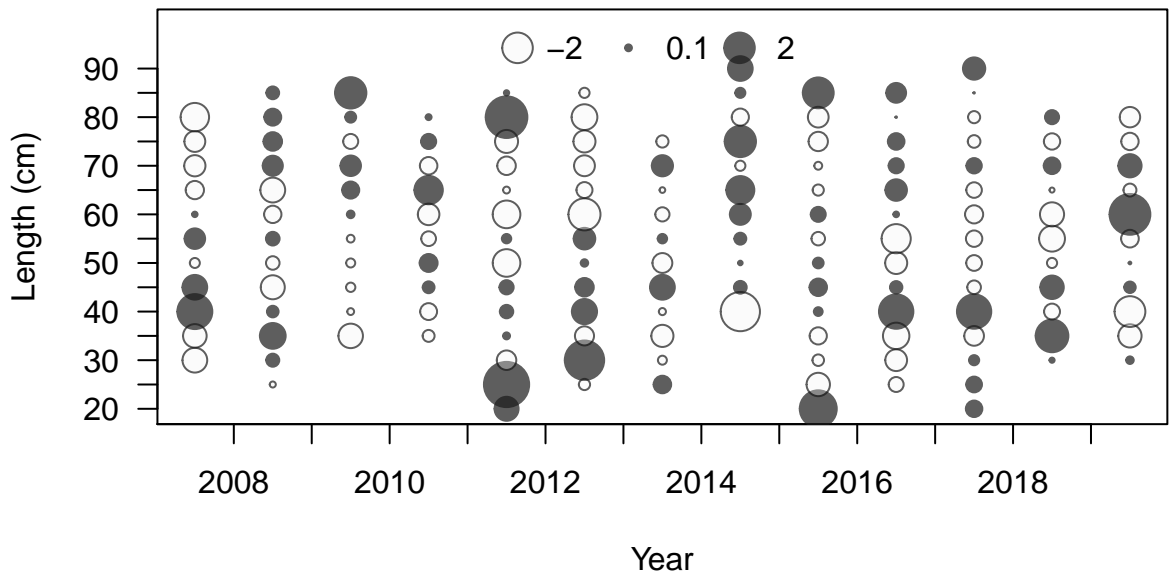




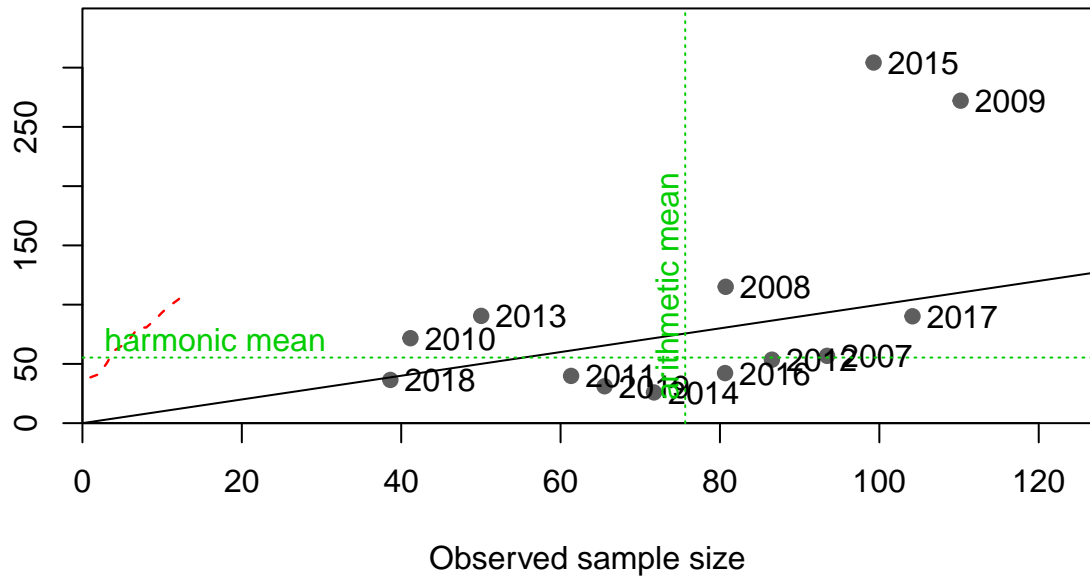
Proportion



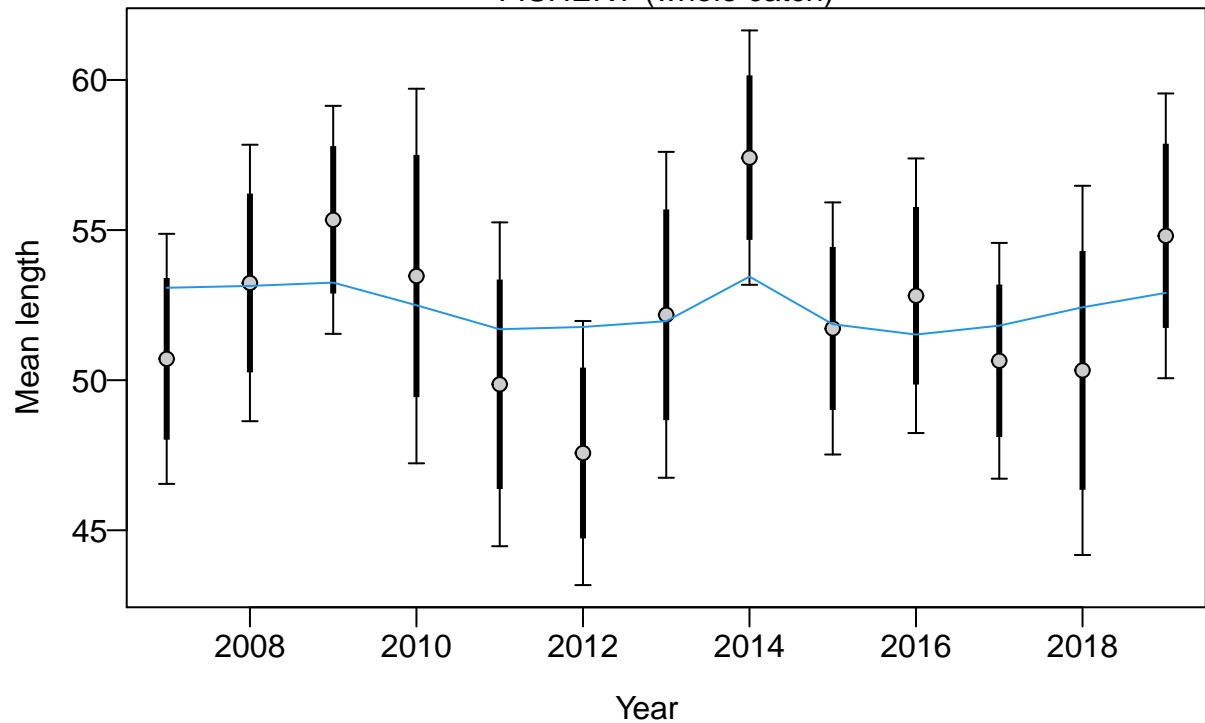
Length (cm)

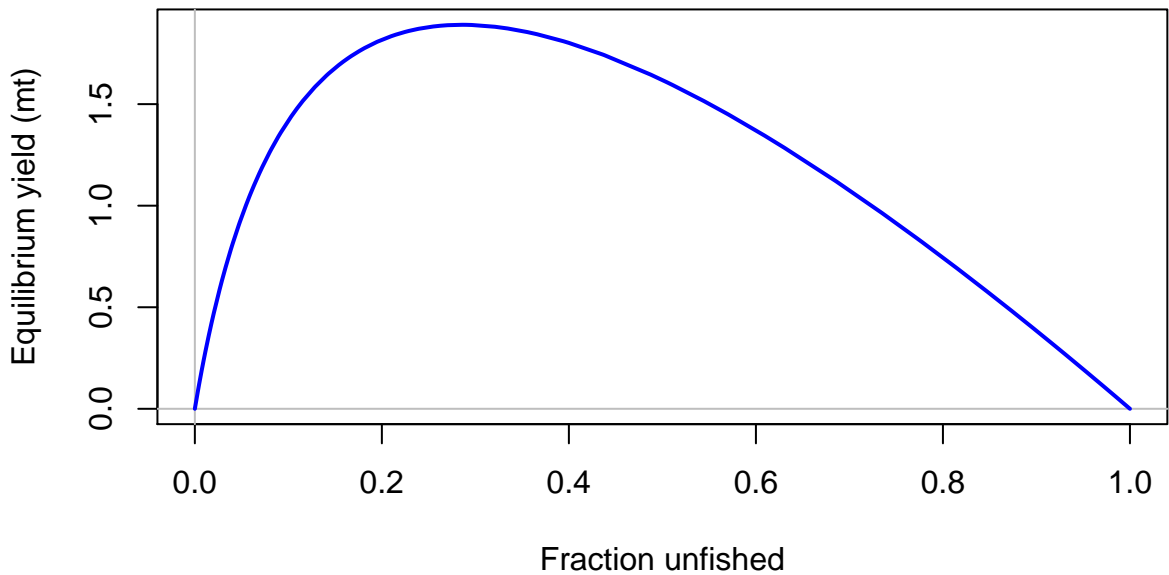


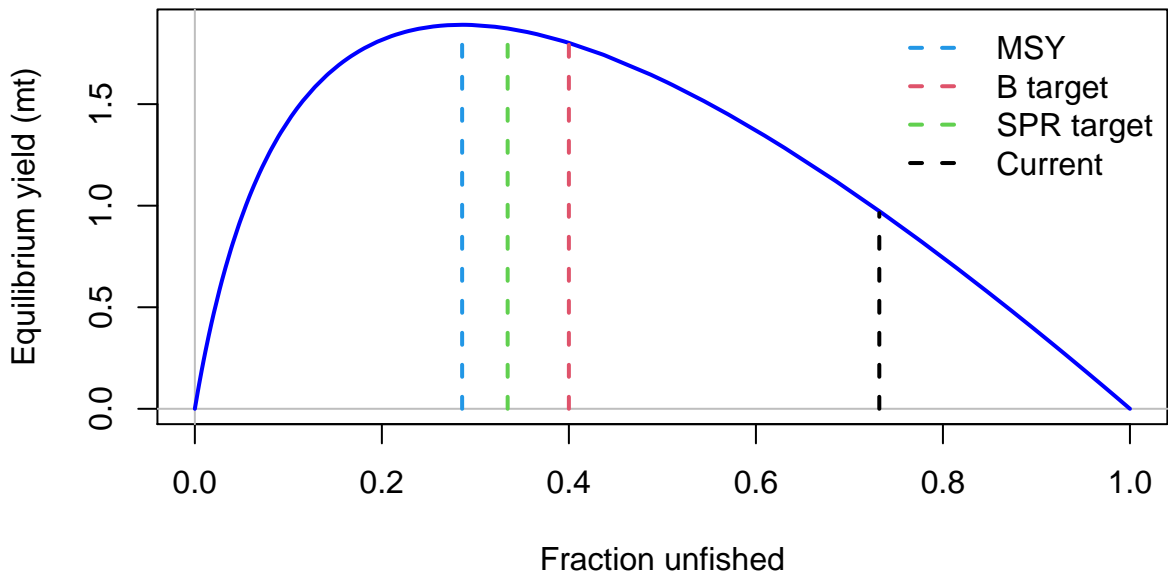
Effective sample size

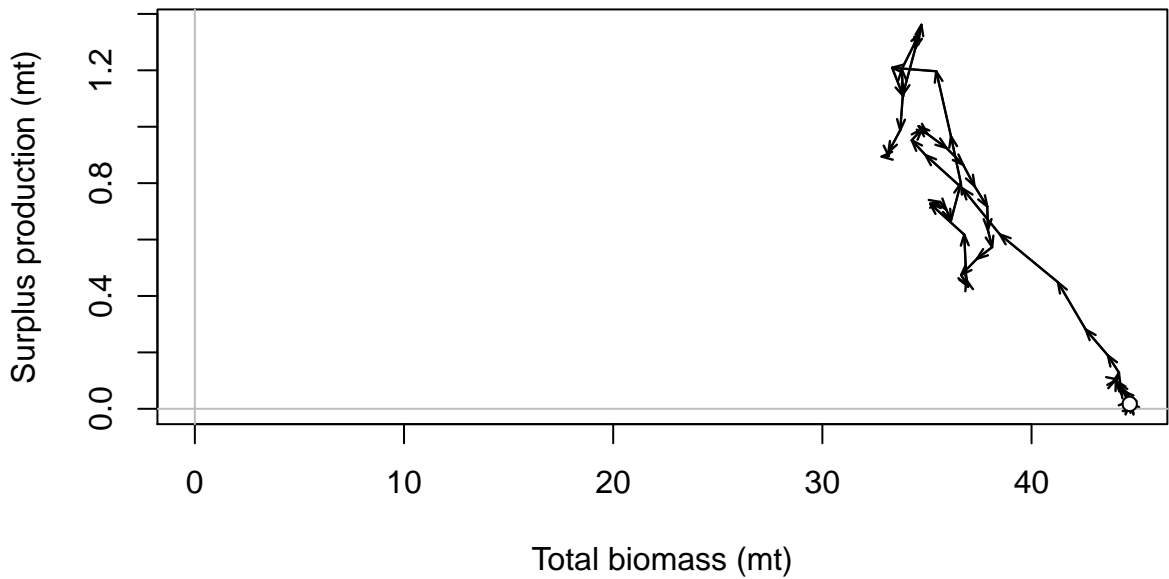


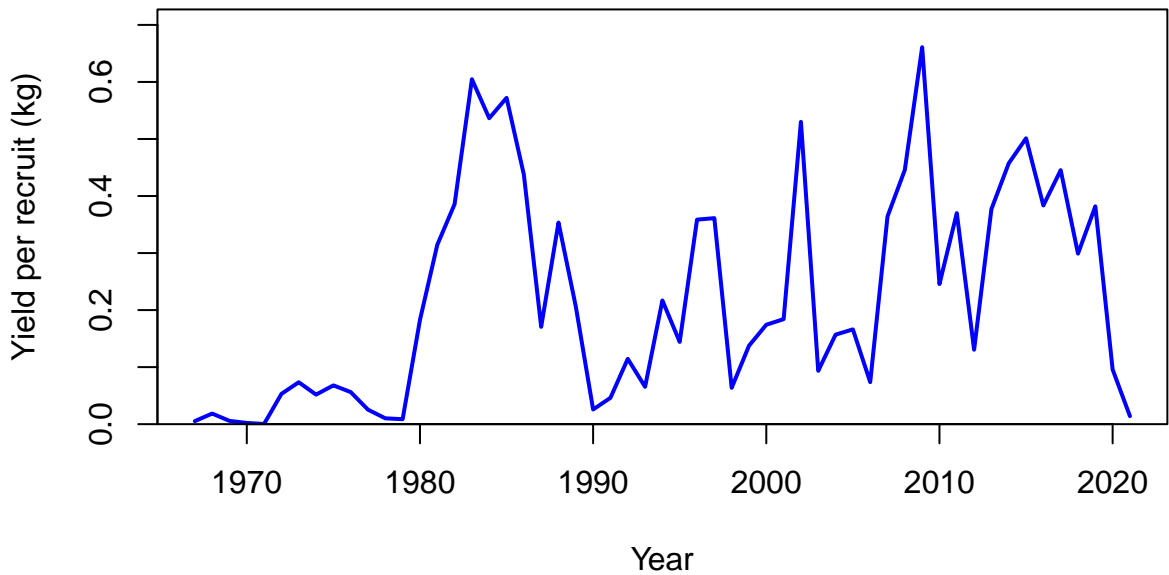
FISHERY (whole catch)

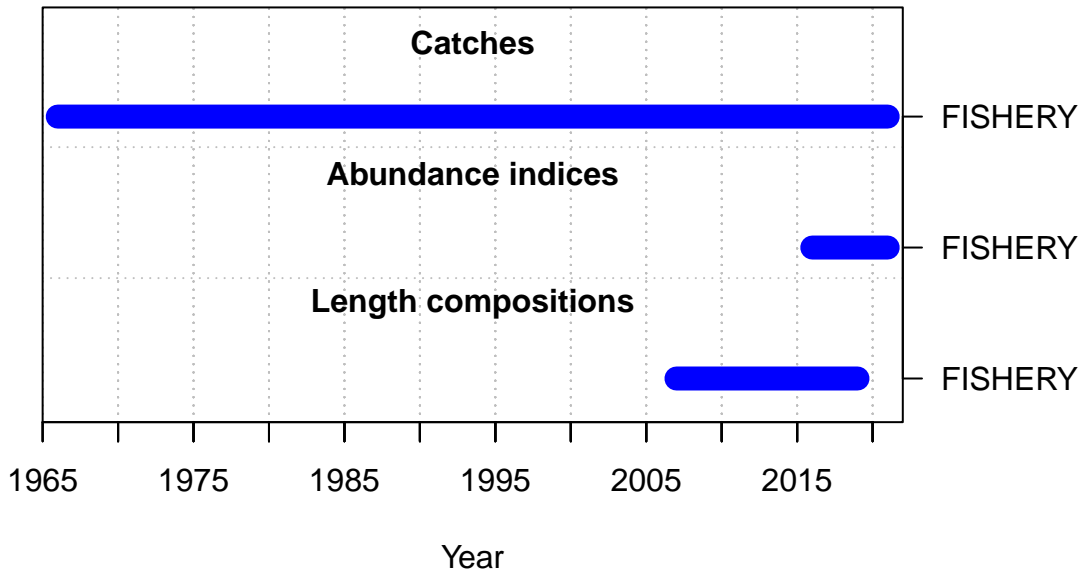


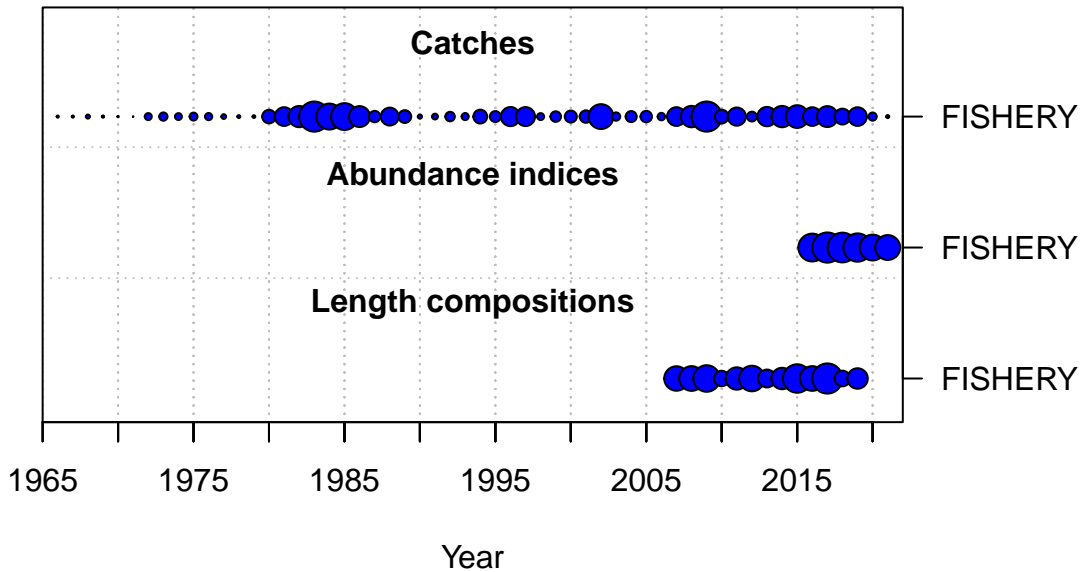








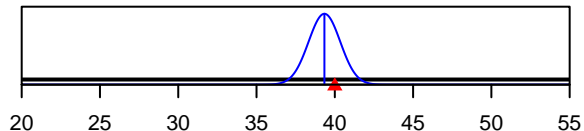




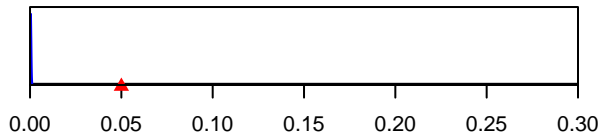
SR_LN(R0)



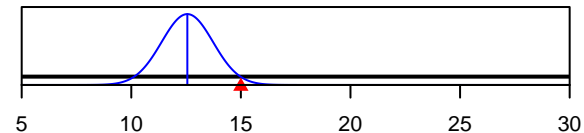
Size_inflection_FISHERY(1)



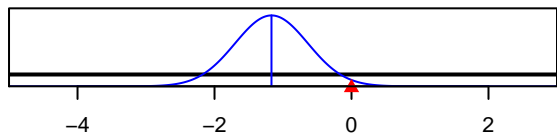
InitF_seas_1_flt_1FISHERY



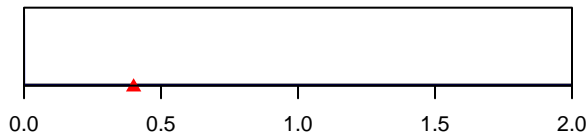
Size_95%width_FISHERY(1)



LnQ_base_FISHERY(1)



Q_extraSD_FISHERY(1)



Parameter value