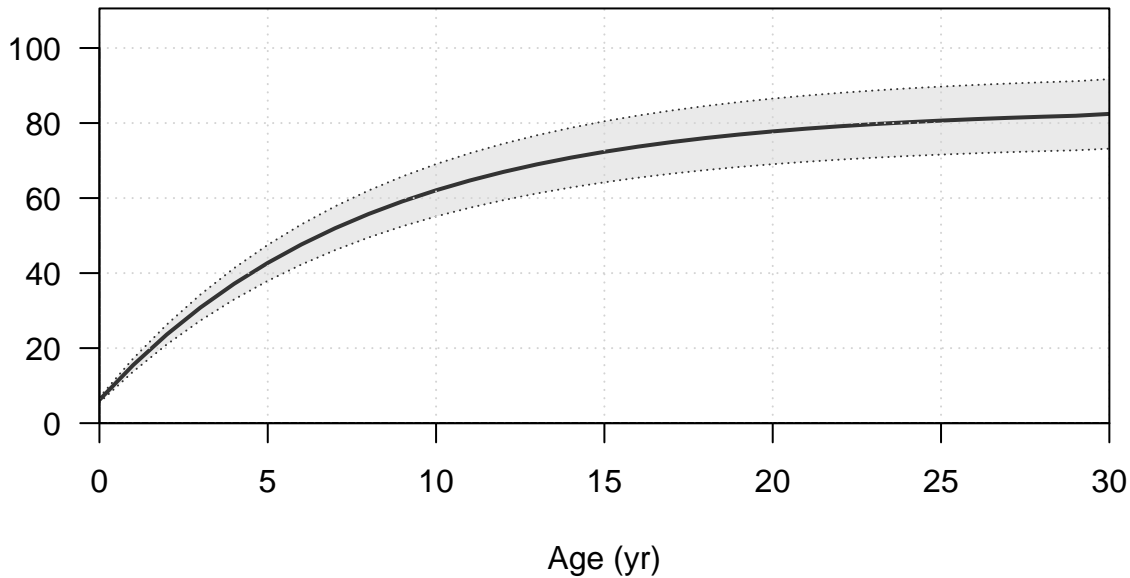


Plots created using the 'r4ss' package in R  
Stock Synthesis version: 3.30.19.0  
StartTime: Mon Aug 22 09:37:39 2022  
Data\_File: data.ss  
Control\_File: control.ss

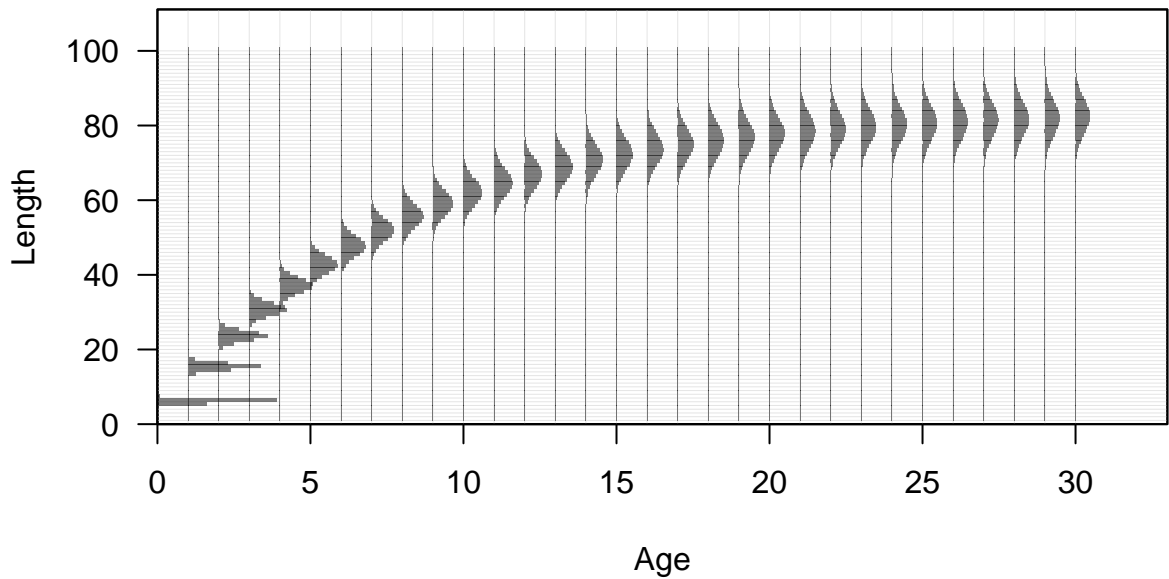
Length (cm, beginning of the year)

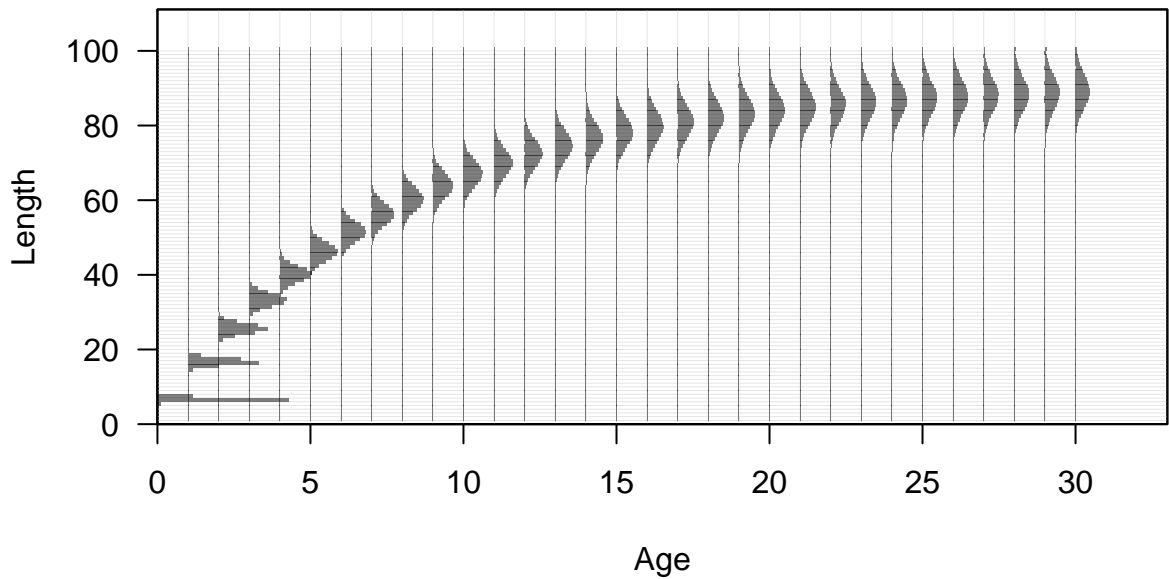


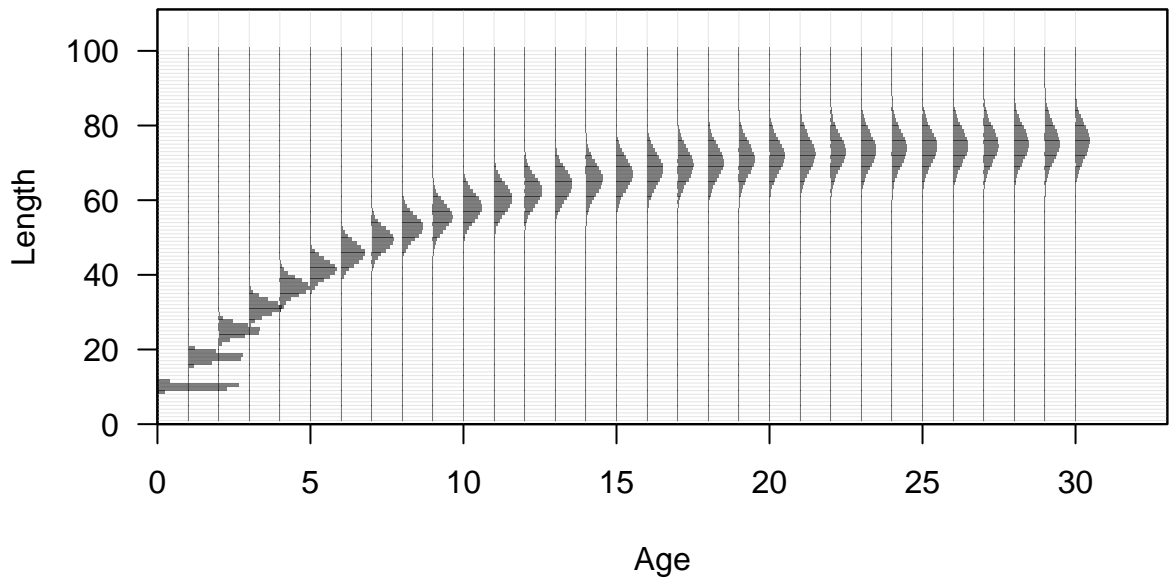
























Fecundity



Fecundity

20

15

10

5

0

0

20

40

60

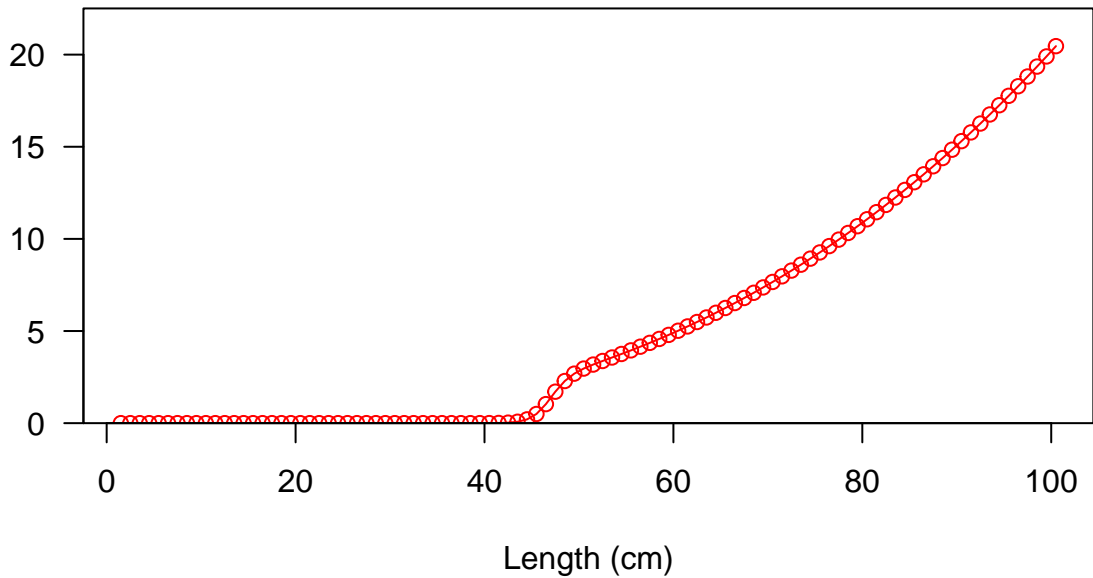
80

100

Female length (cm)

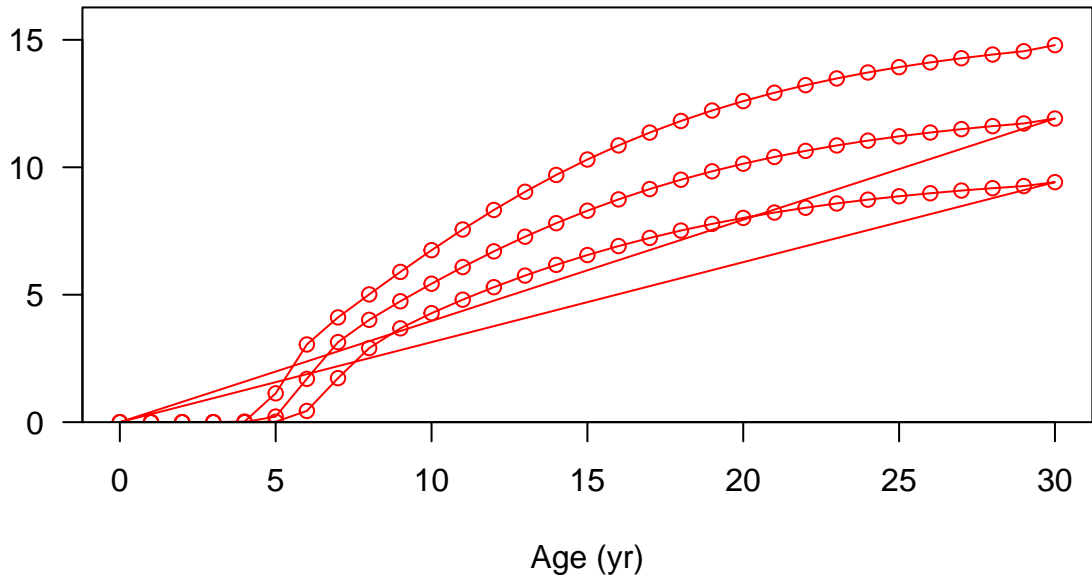


Spawning output

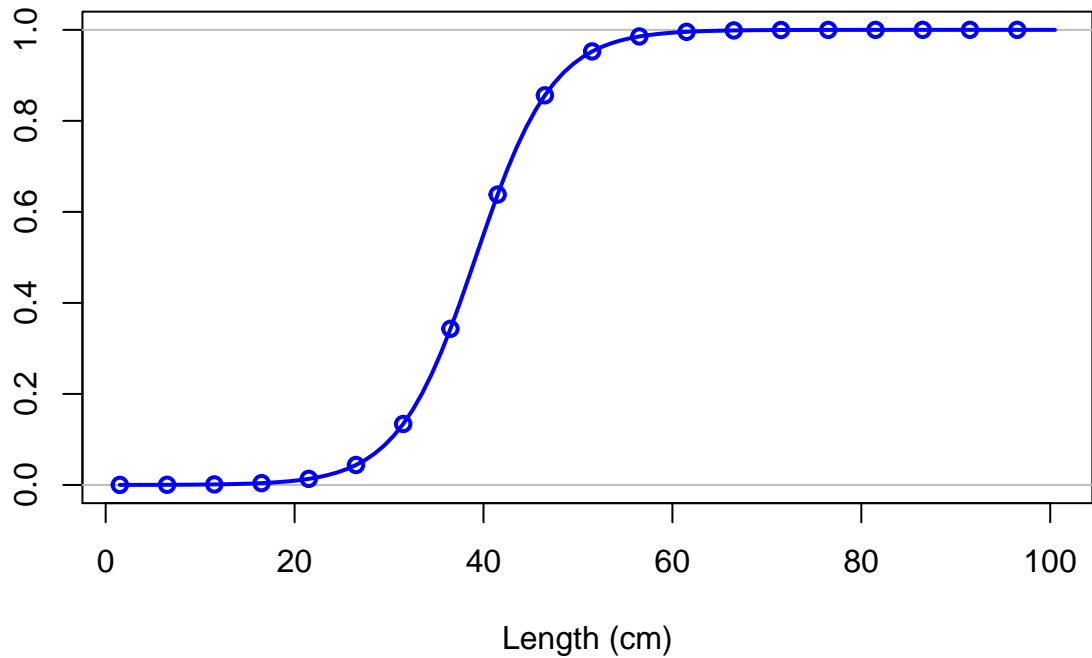




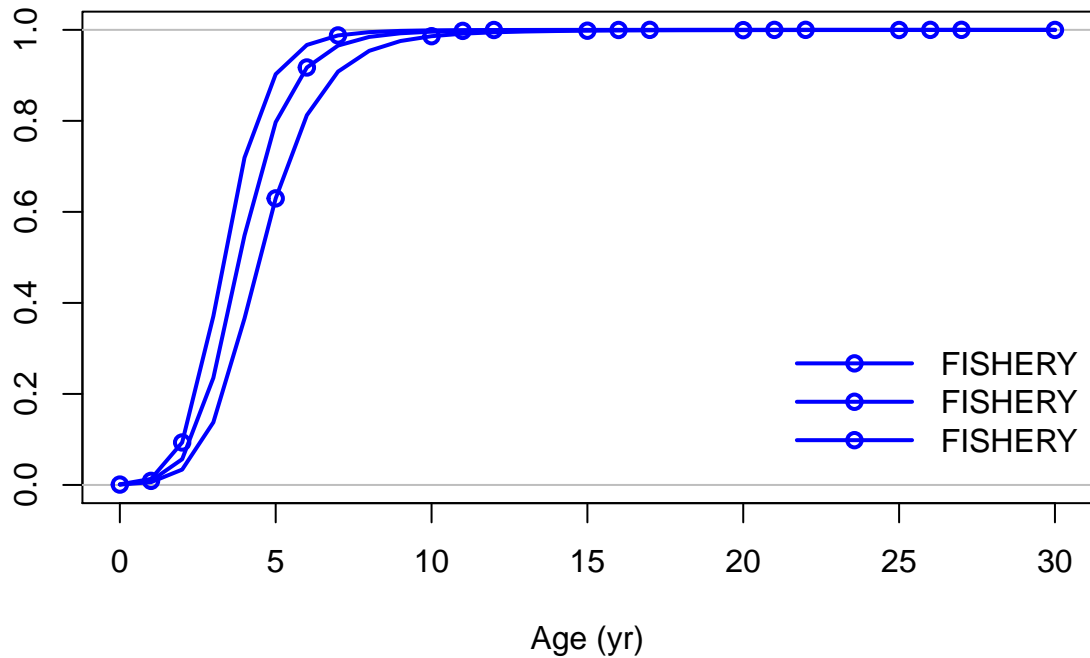
Spawning output



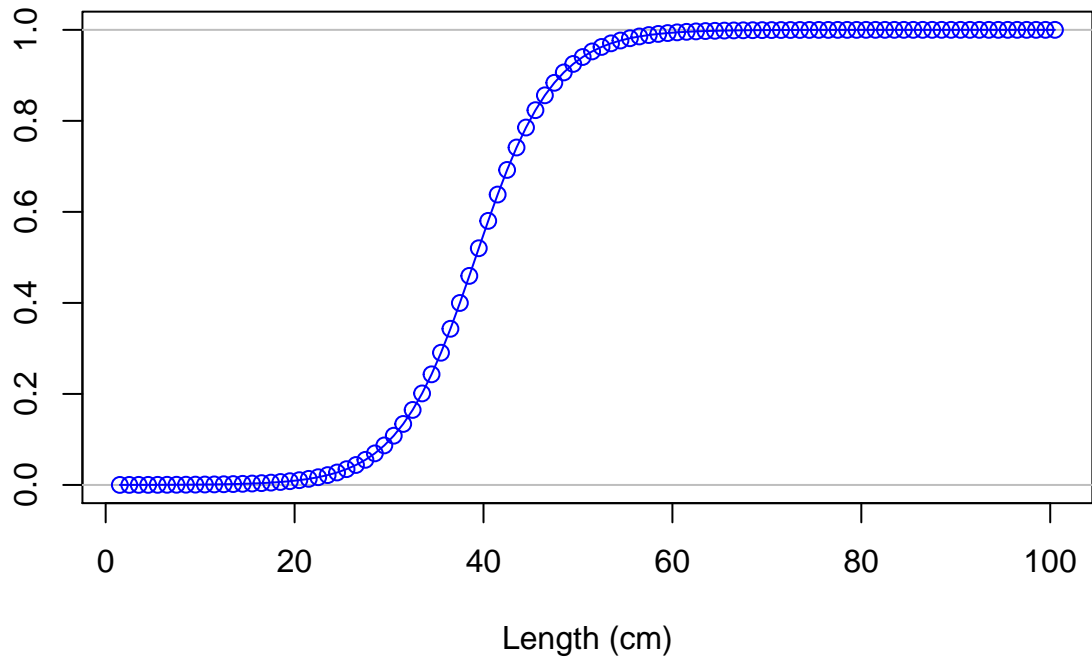
Selectivity

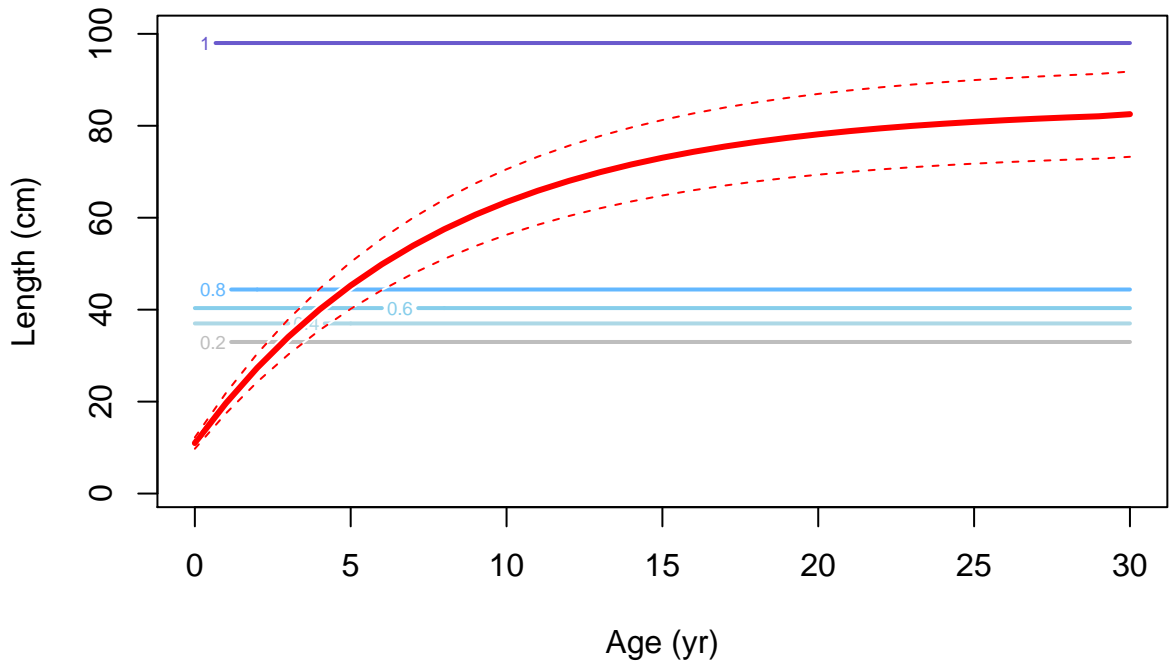


Selectivity

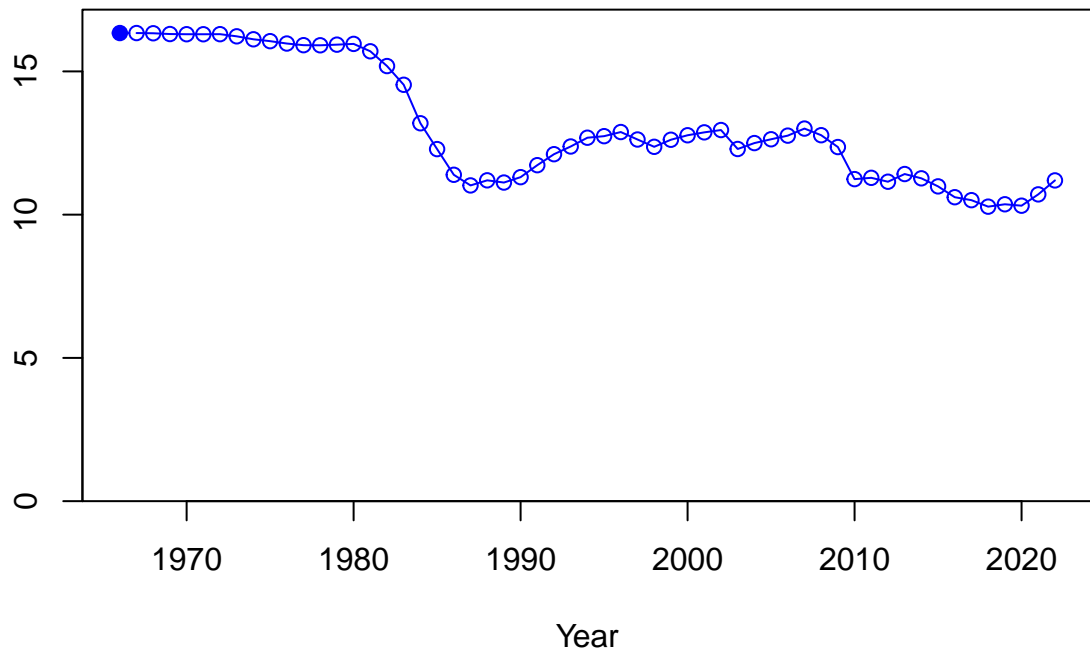


Selectivity

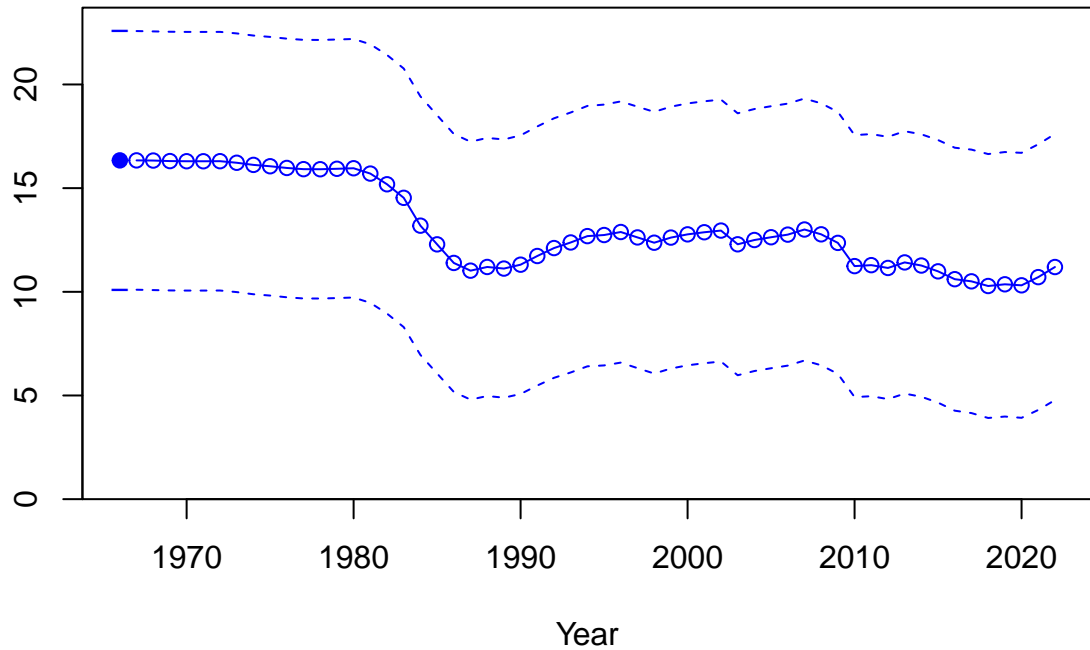




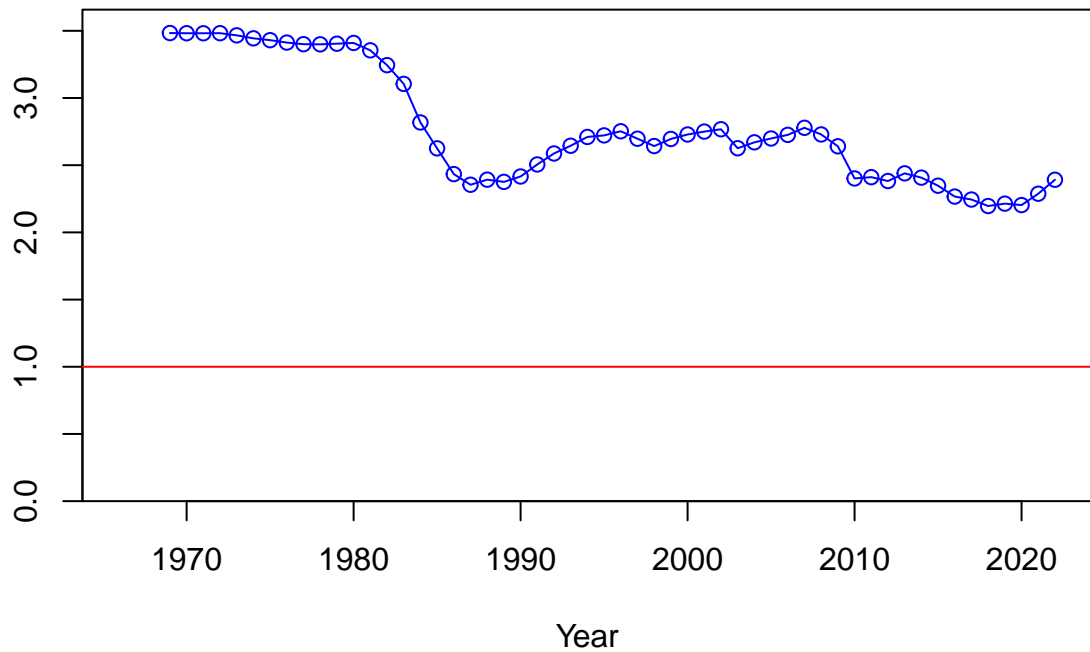
Spawning biomass (mt)



Spawning biomass (mt)

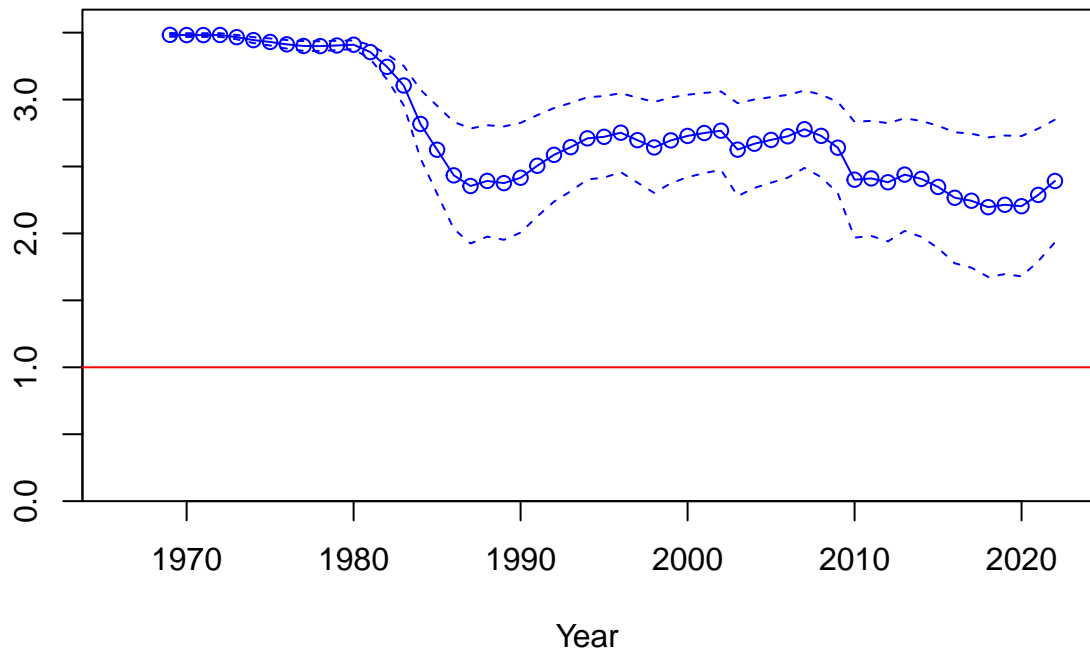


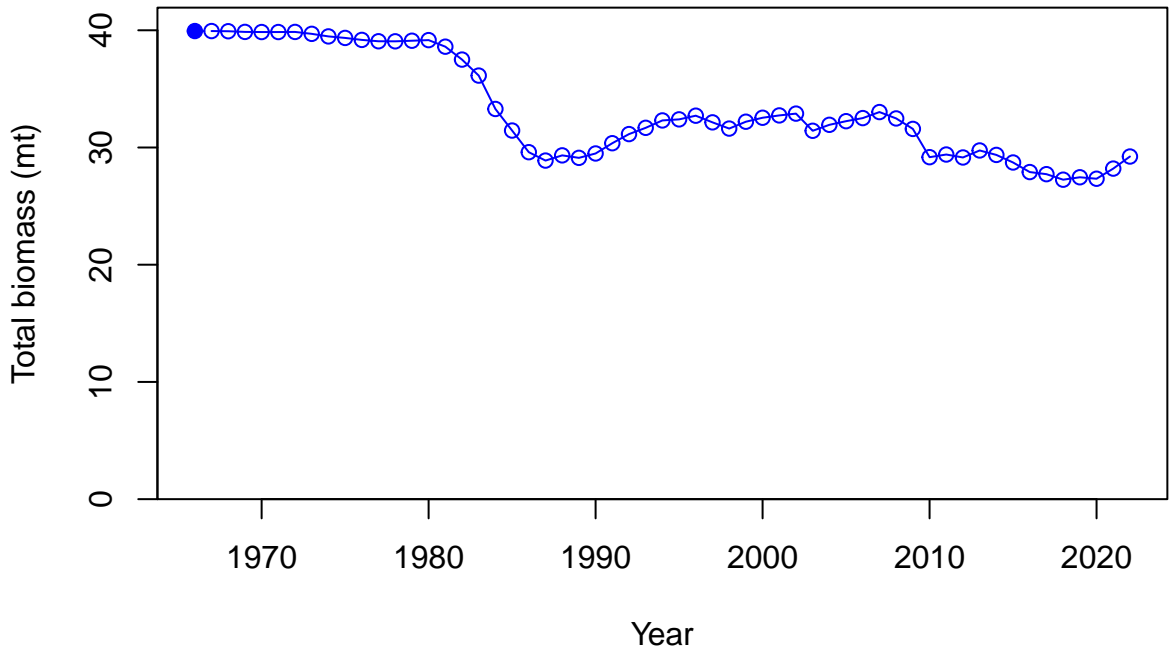
Relative spawning biomass:  $B/B_{MSY}$

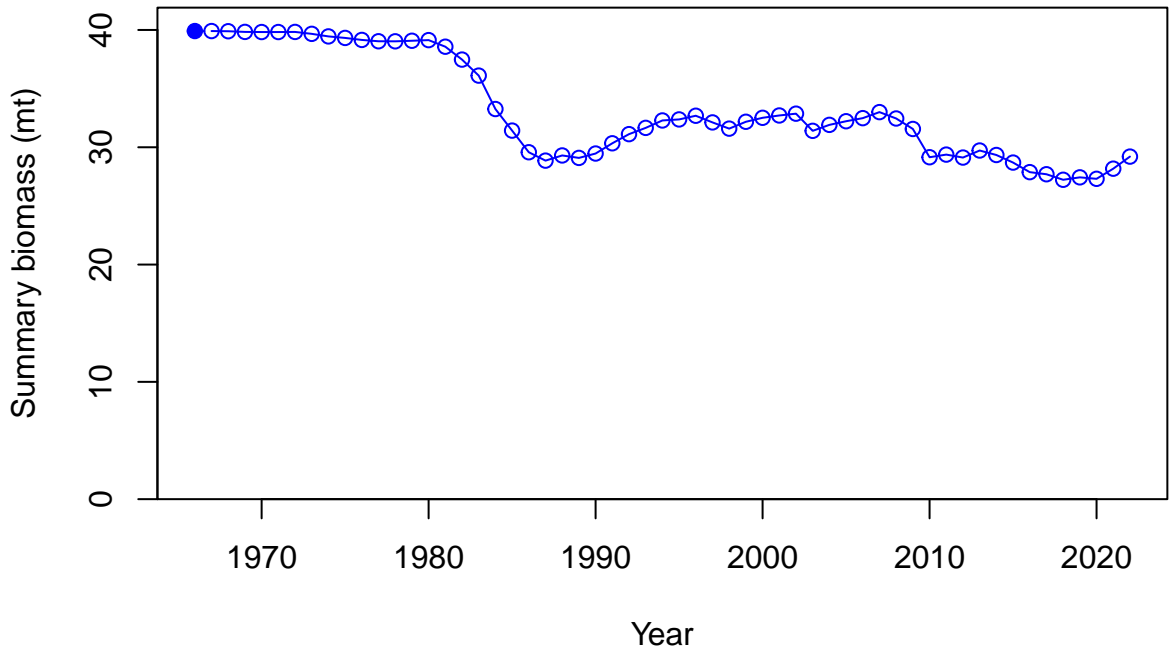


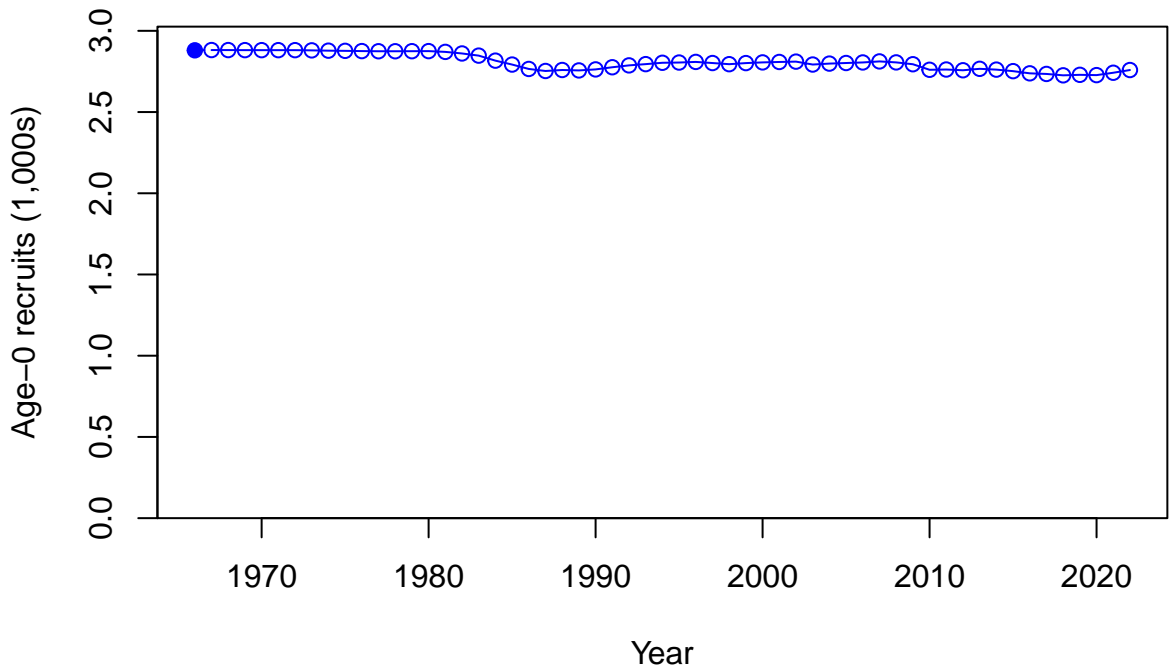


Relative spawning biomass:  $B/B_{MSY}$

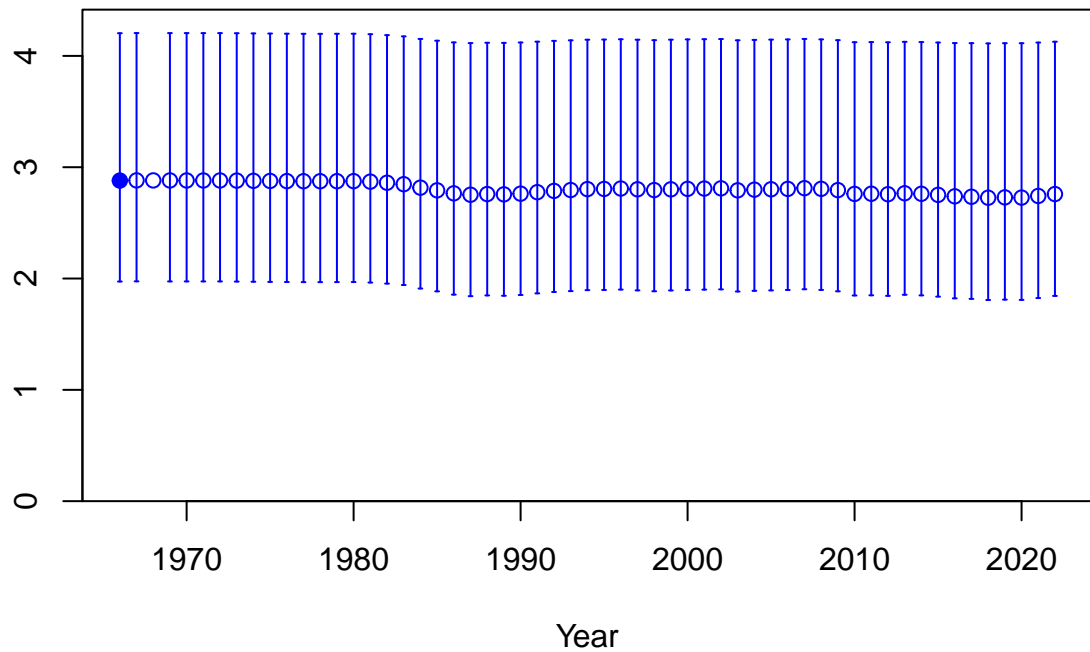




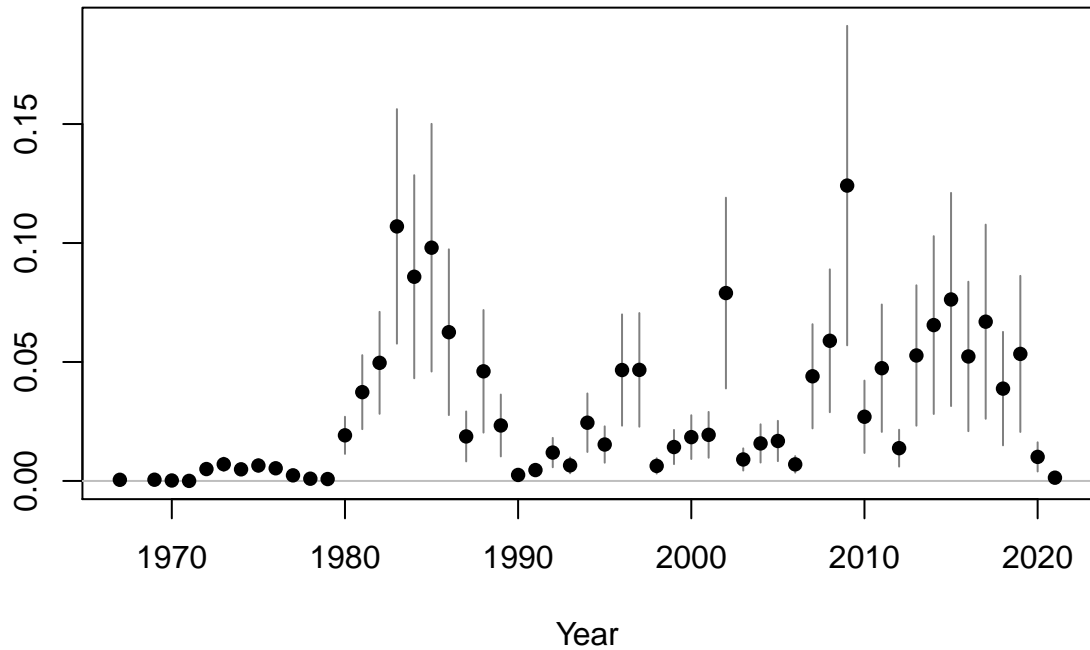


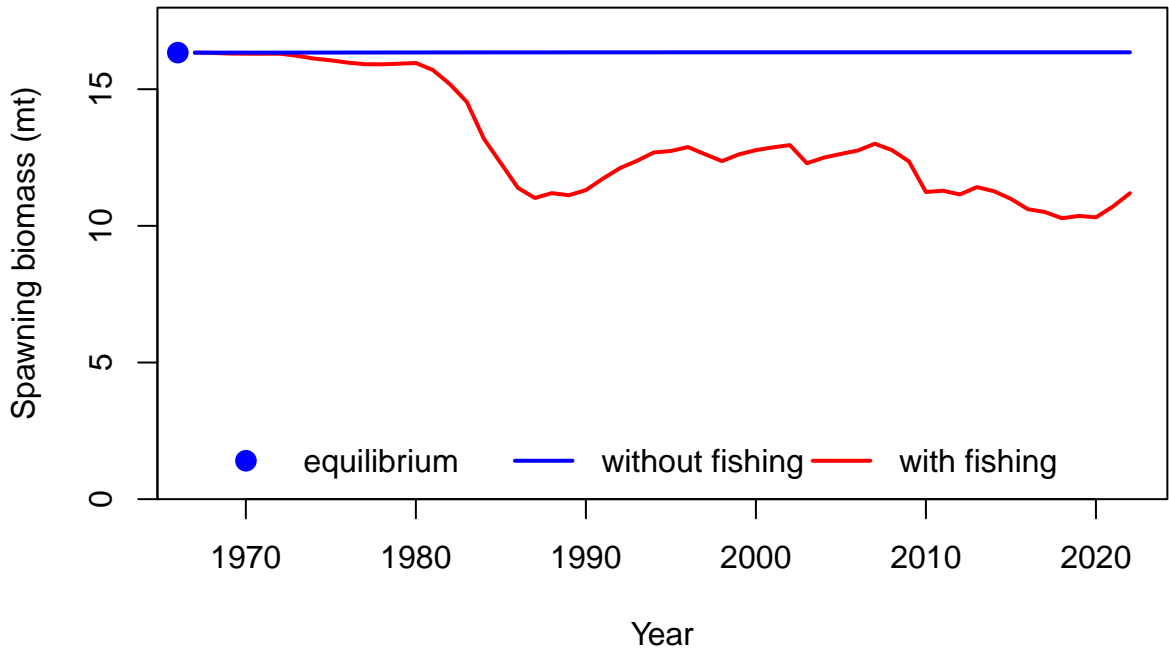


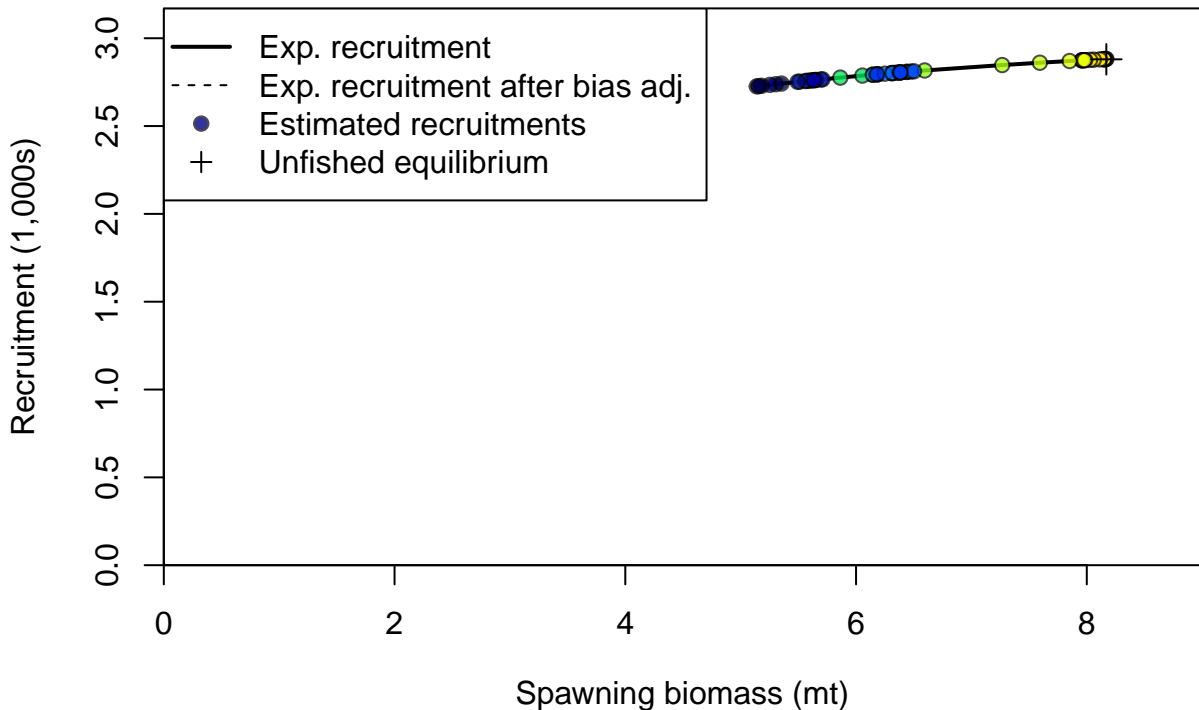
Age-0 recruits (1,000s)



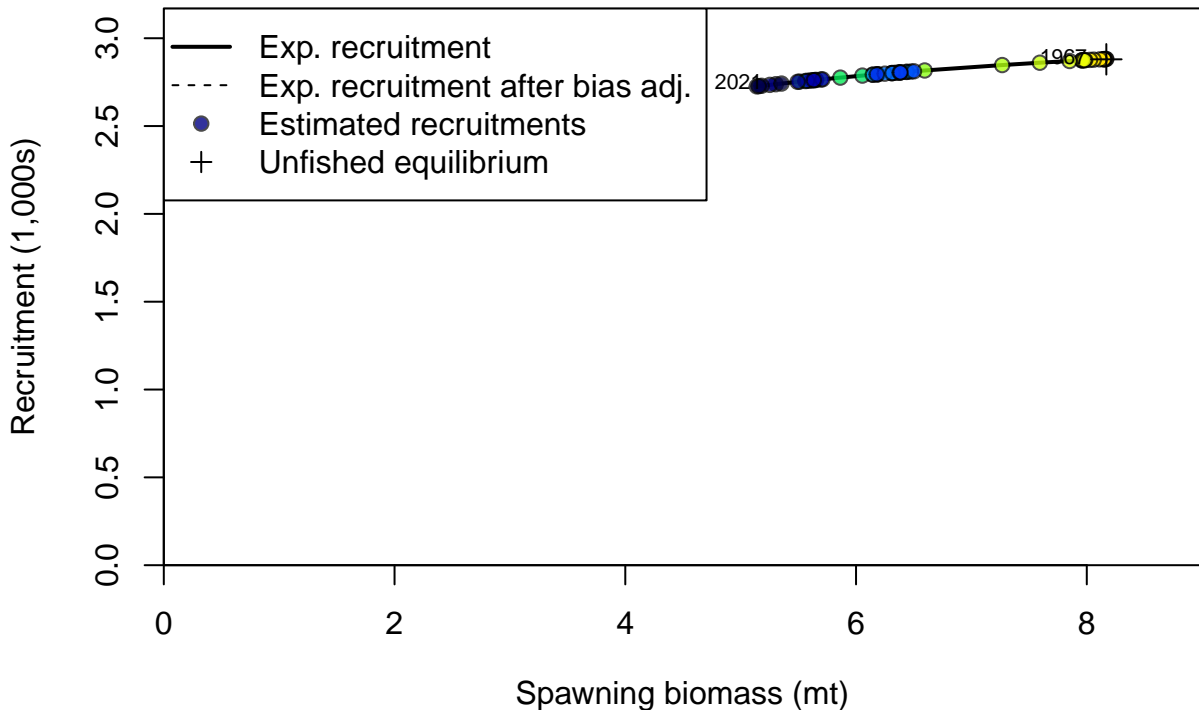
Summary Fishing Mortality

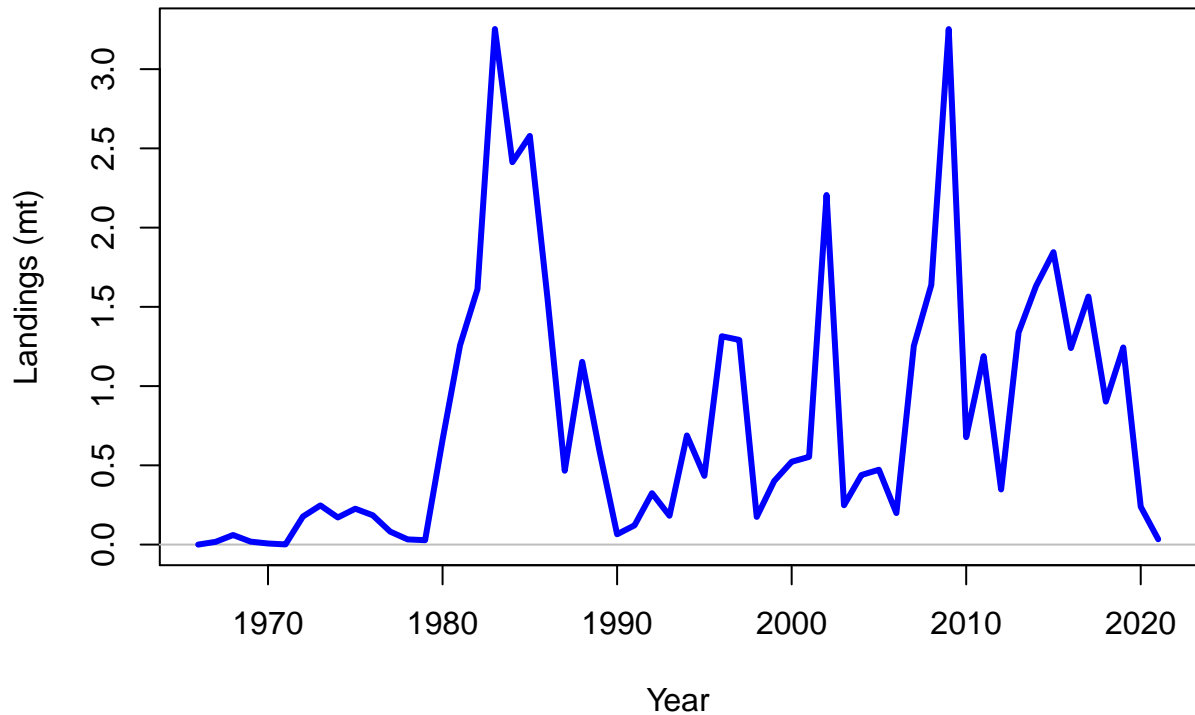


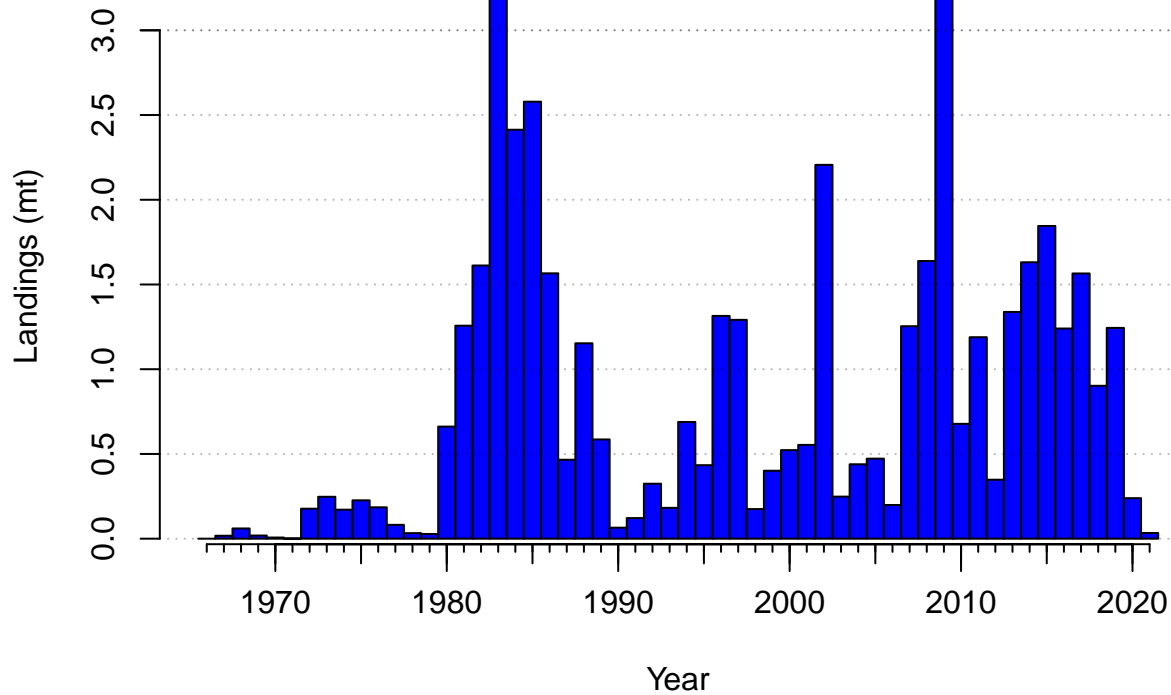


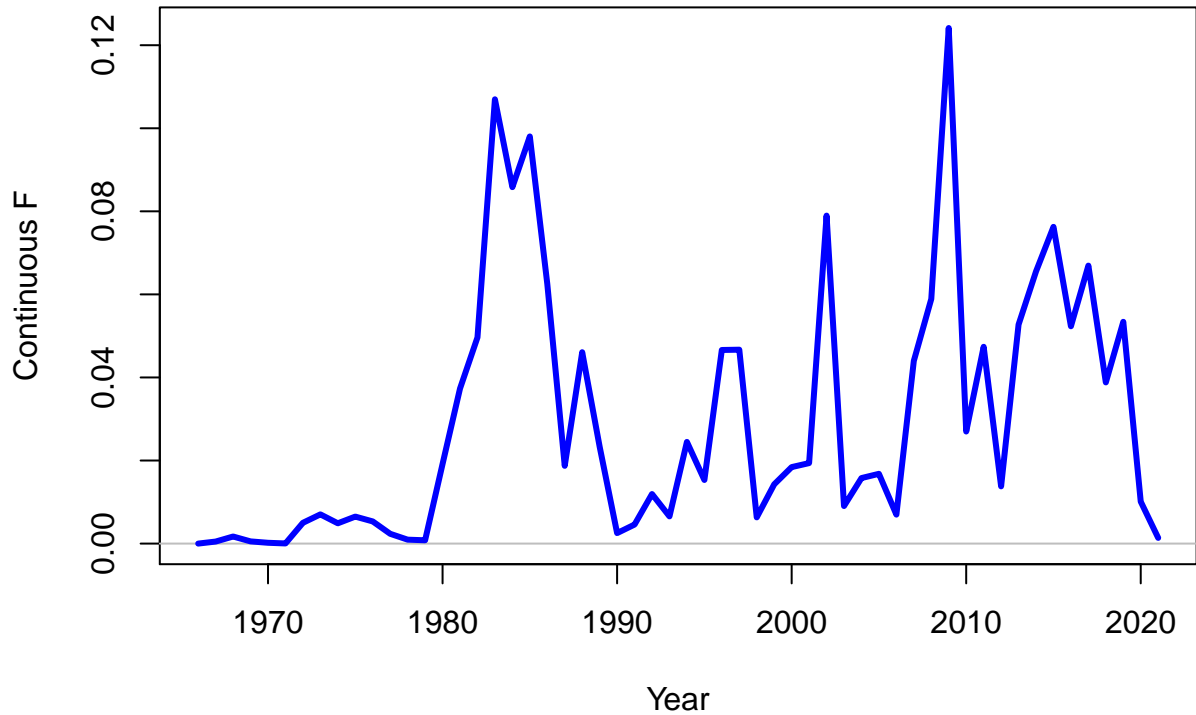




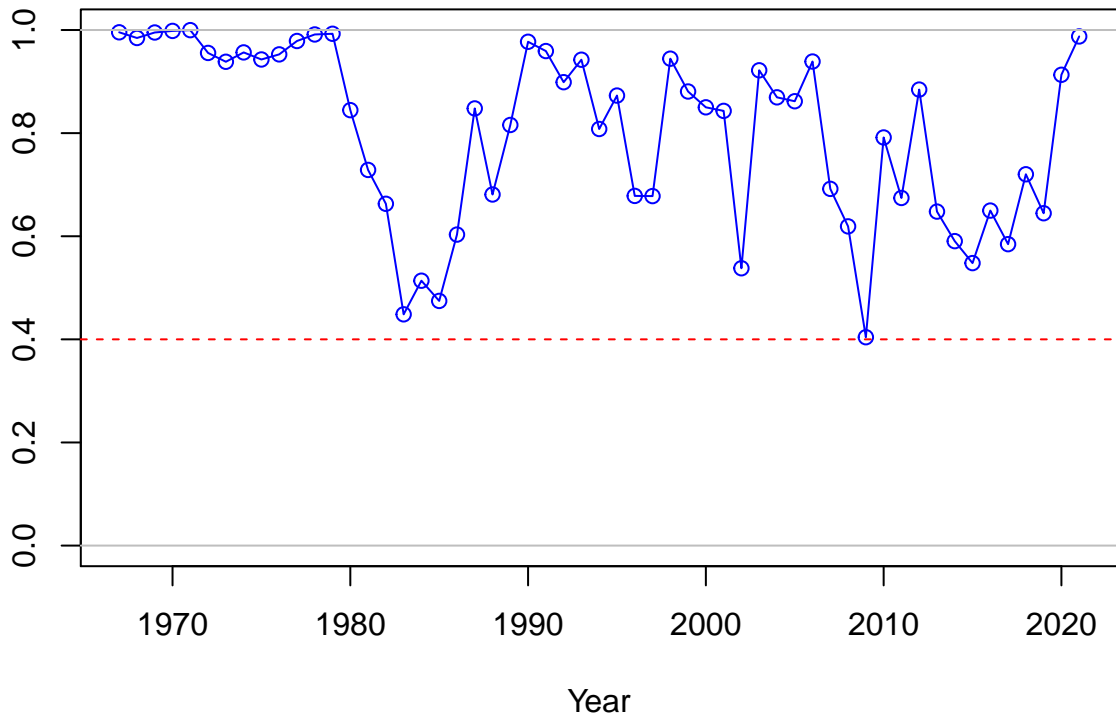


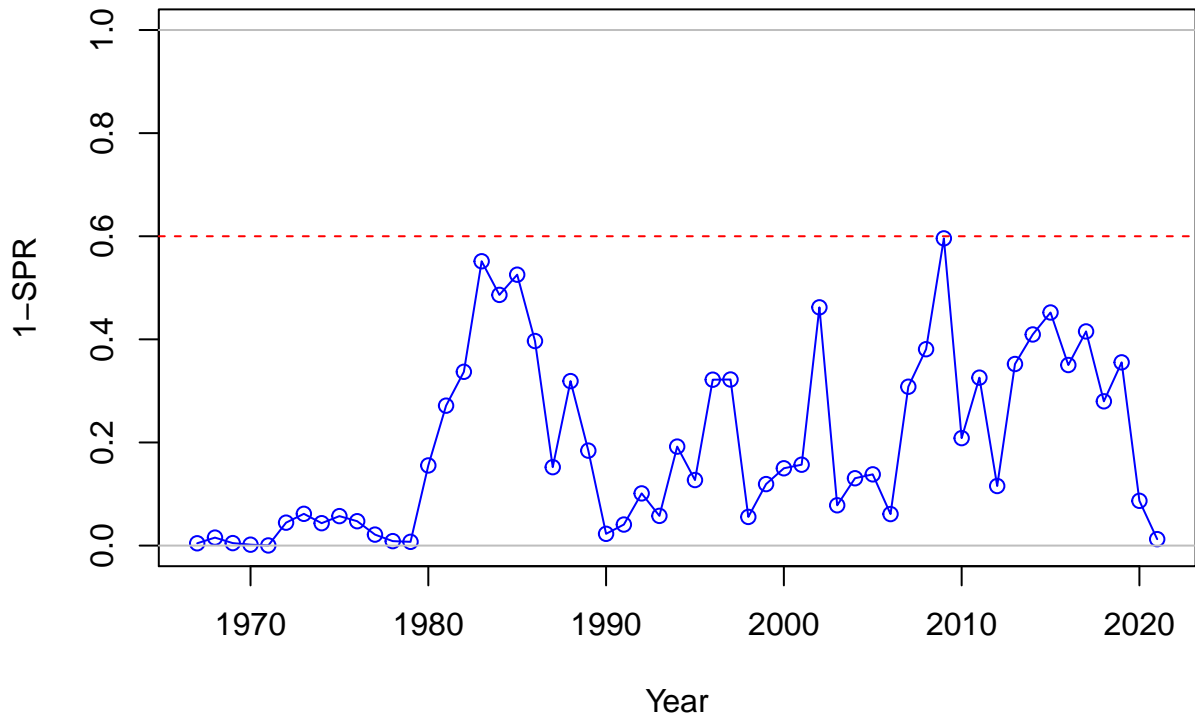




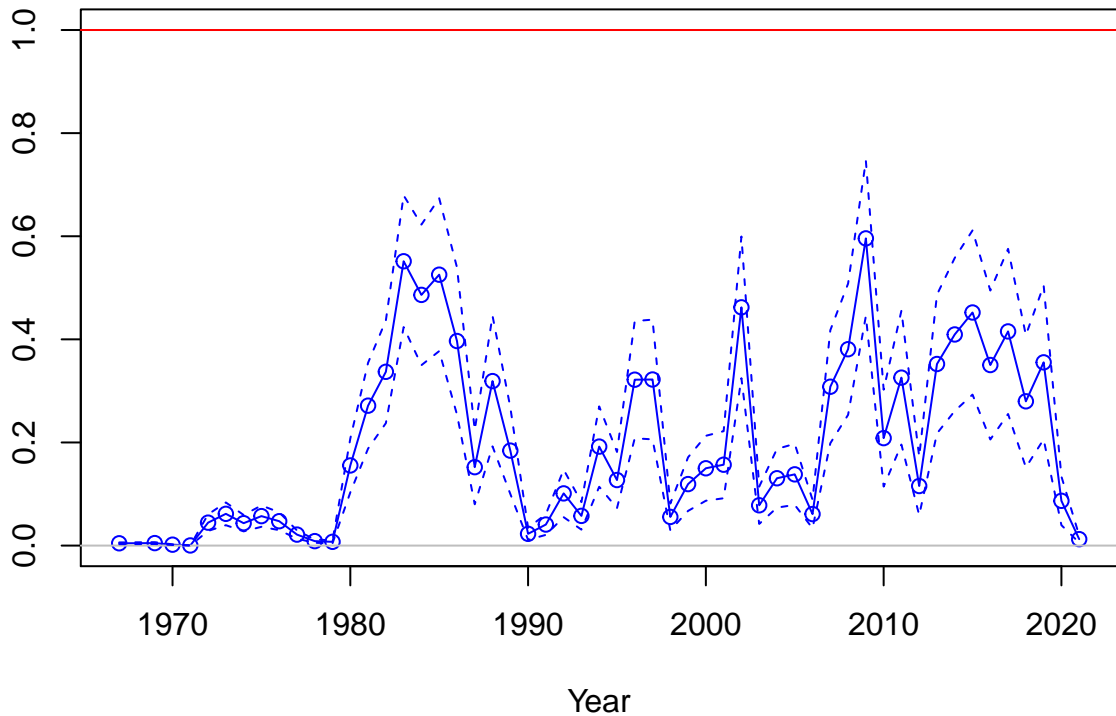


SPR

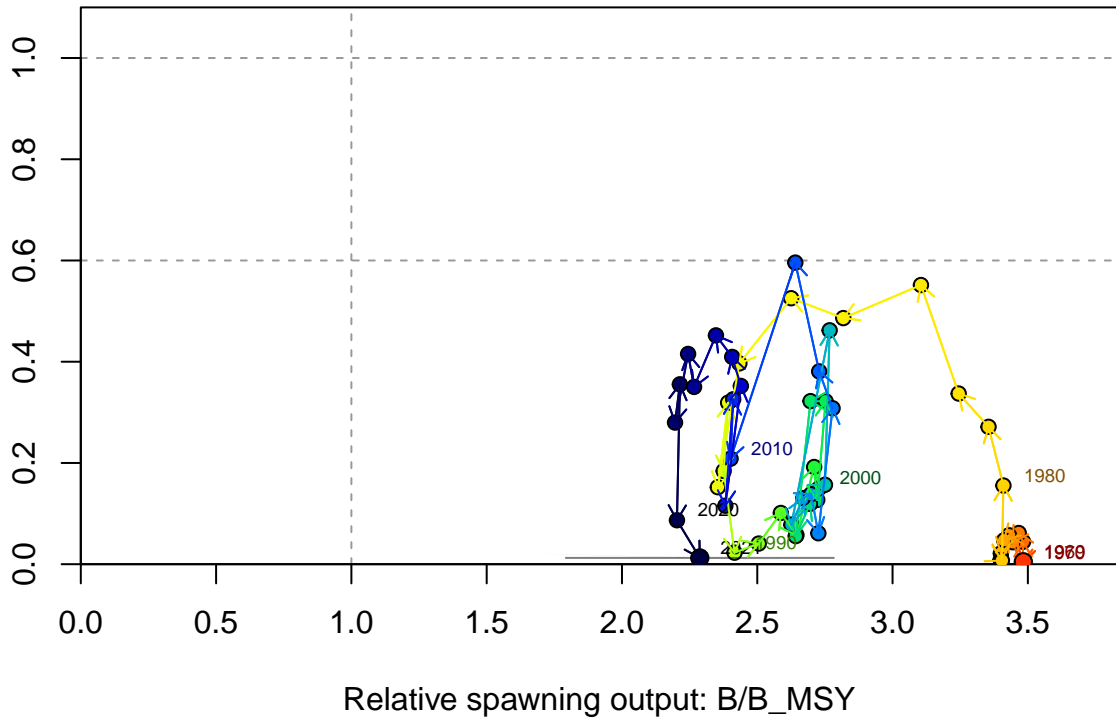




Fishing intensity: 1-SPR



Fishing intensity: 1-SPR



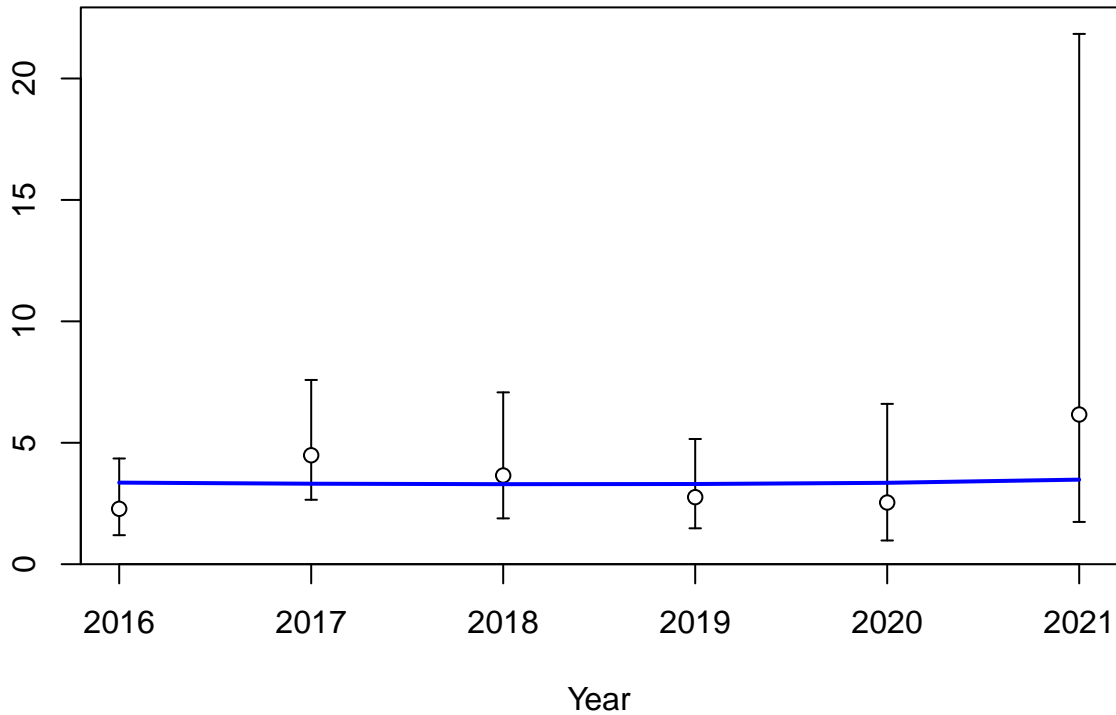


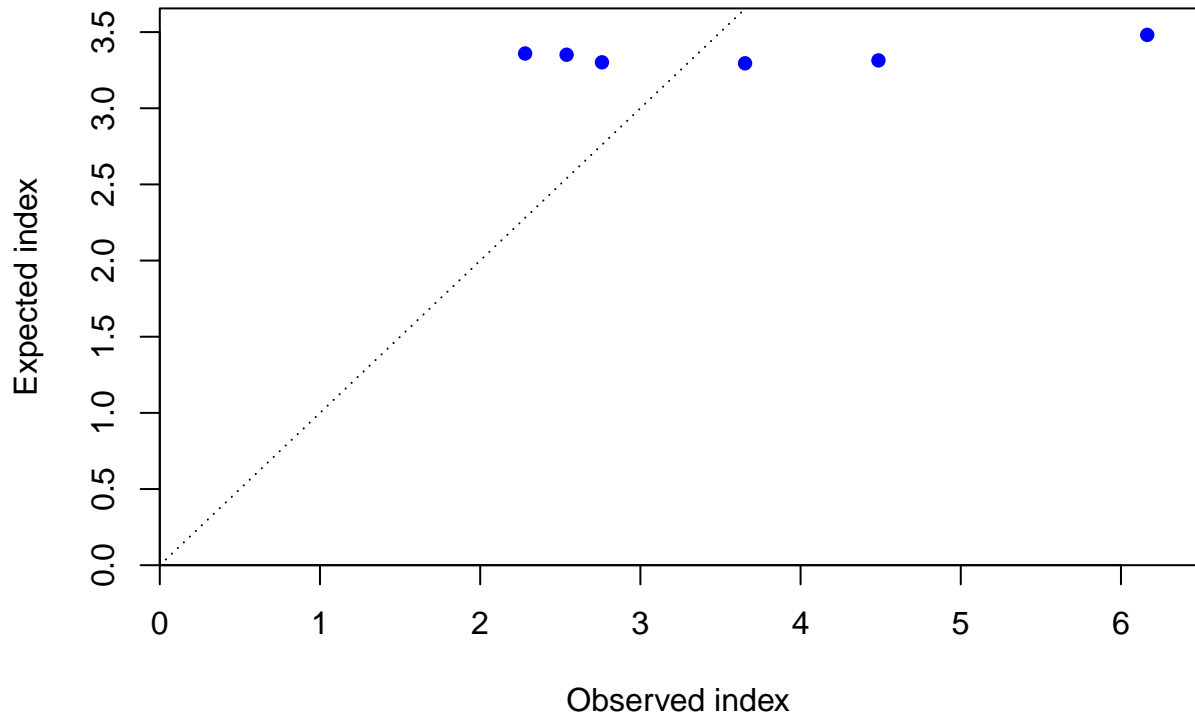
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Year

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3.0  
2.5  
2.0  
1.5  
1.0  
0.5  
0.0

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2017

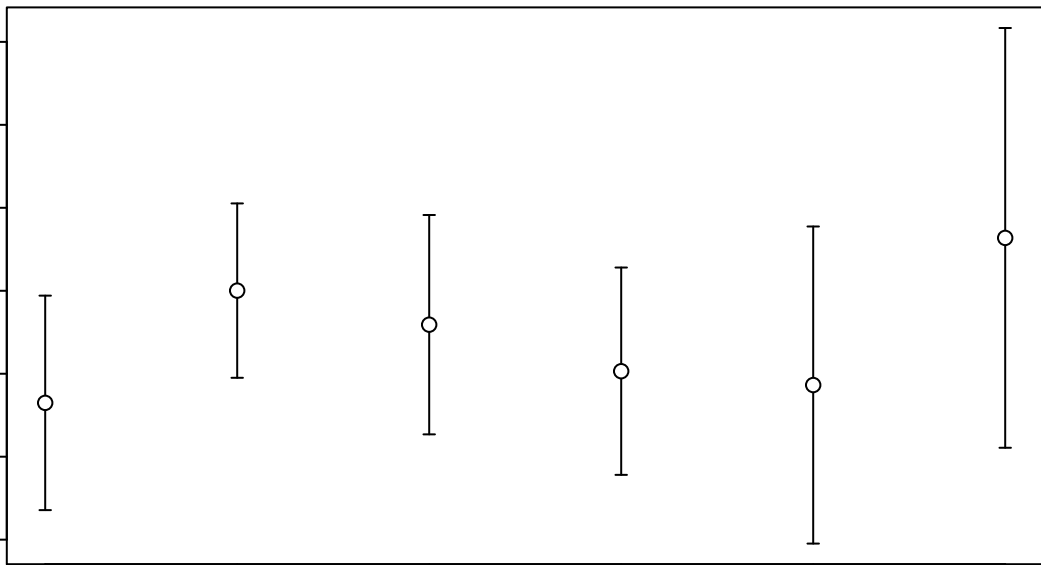
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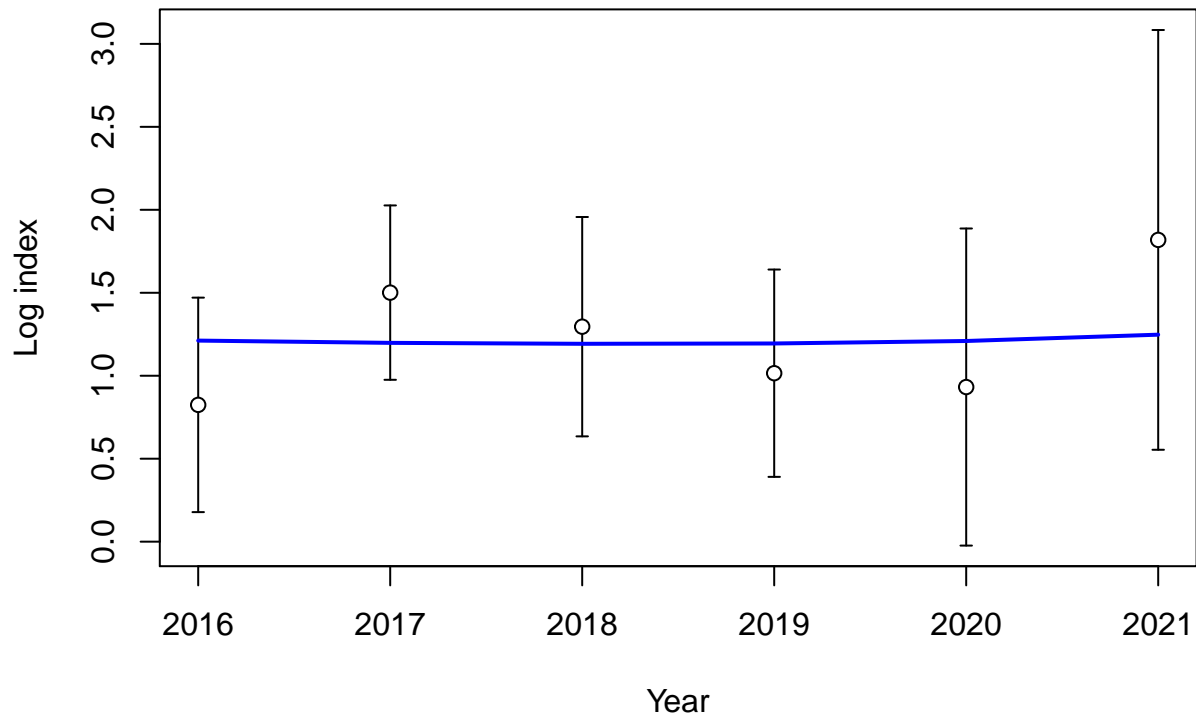
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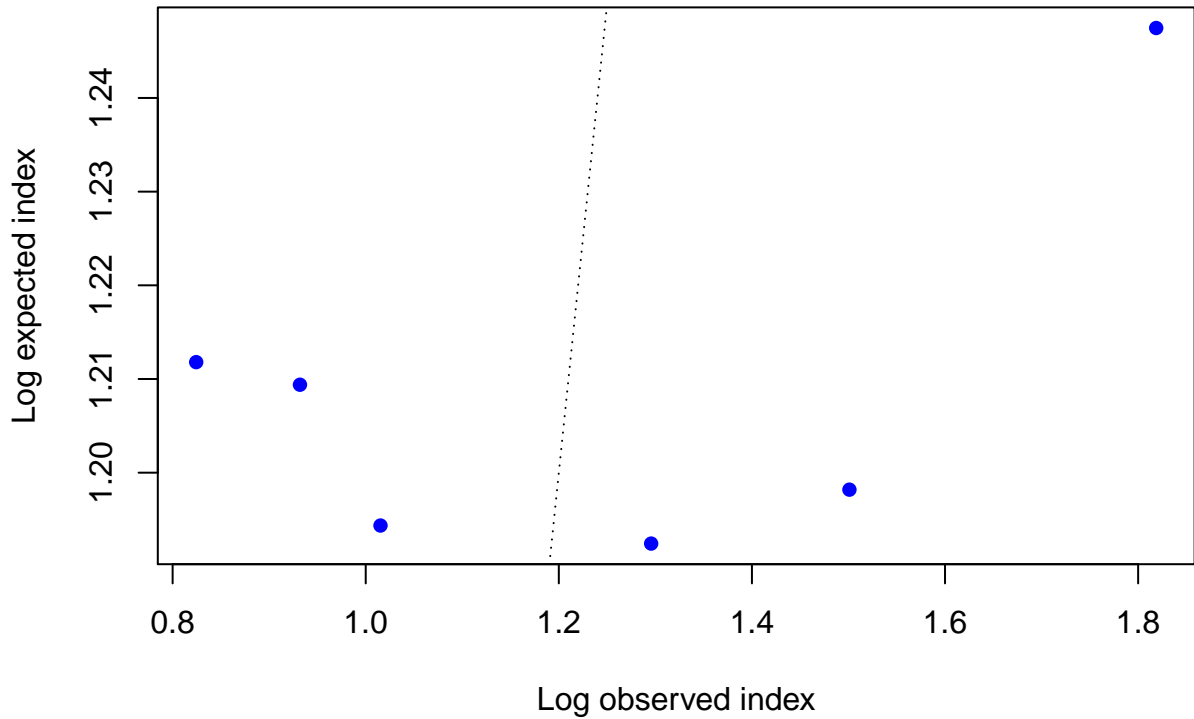
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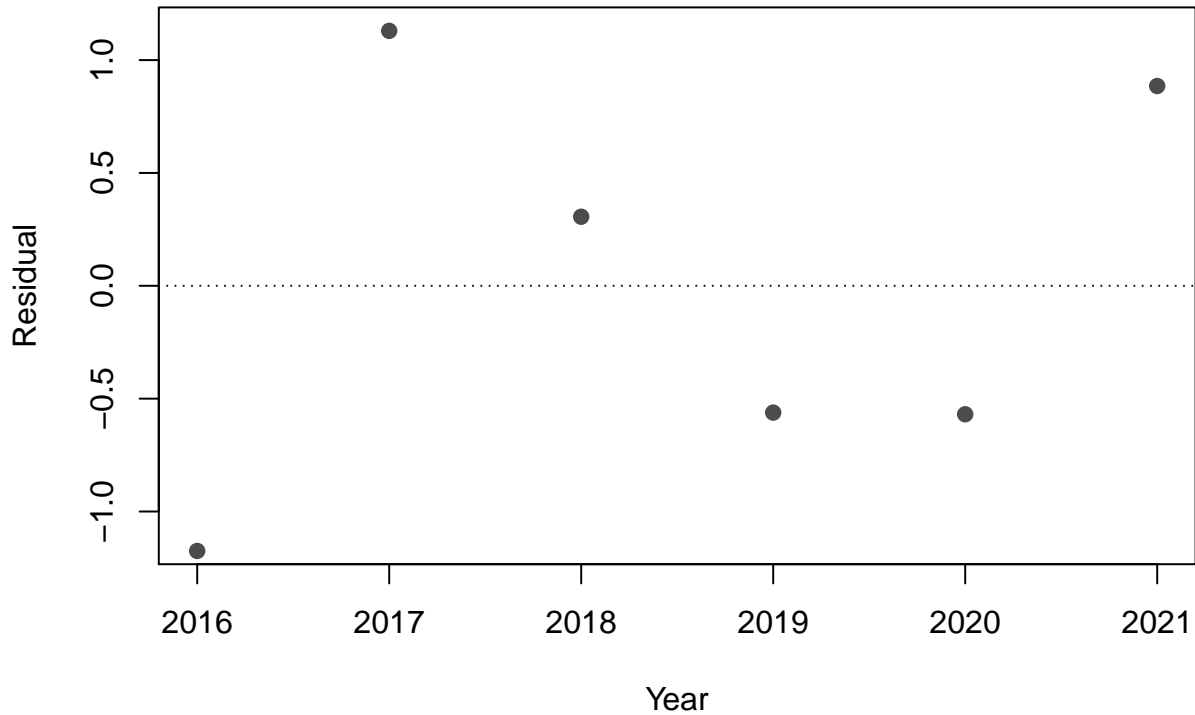
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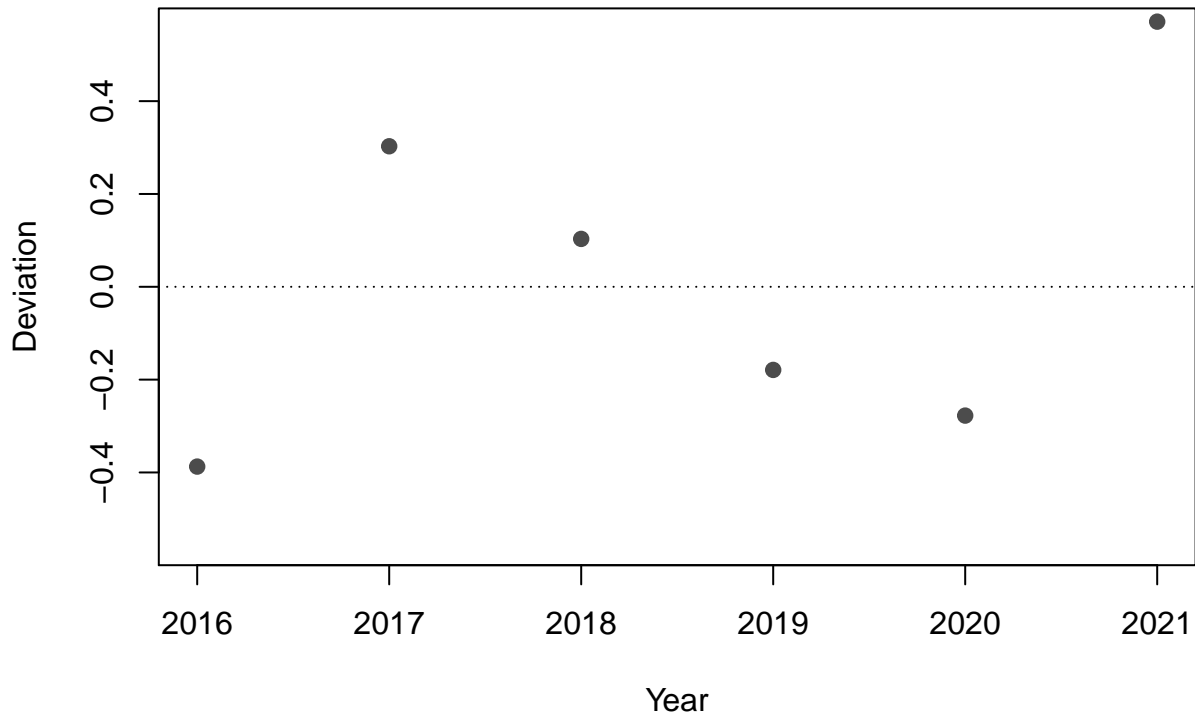
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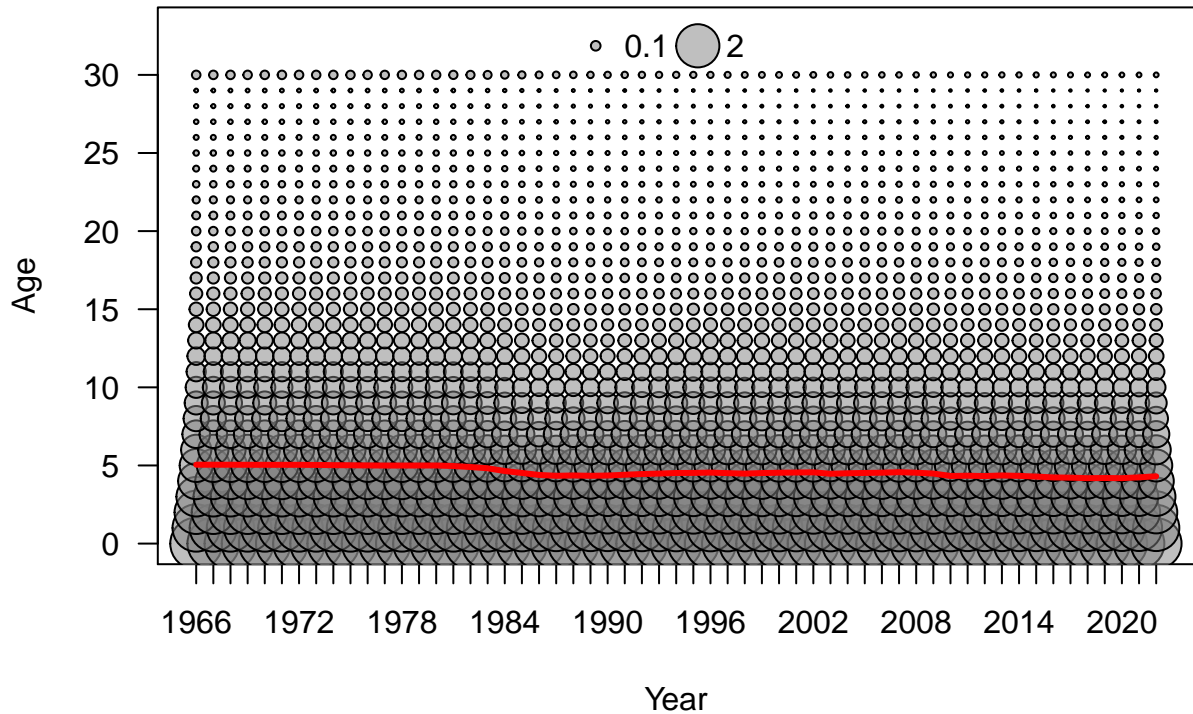


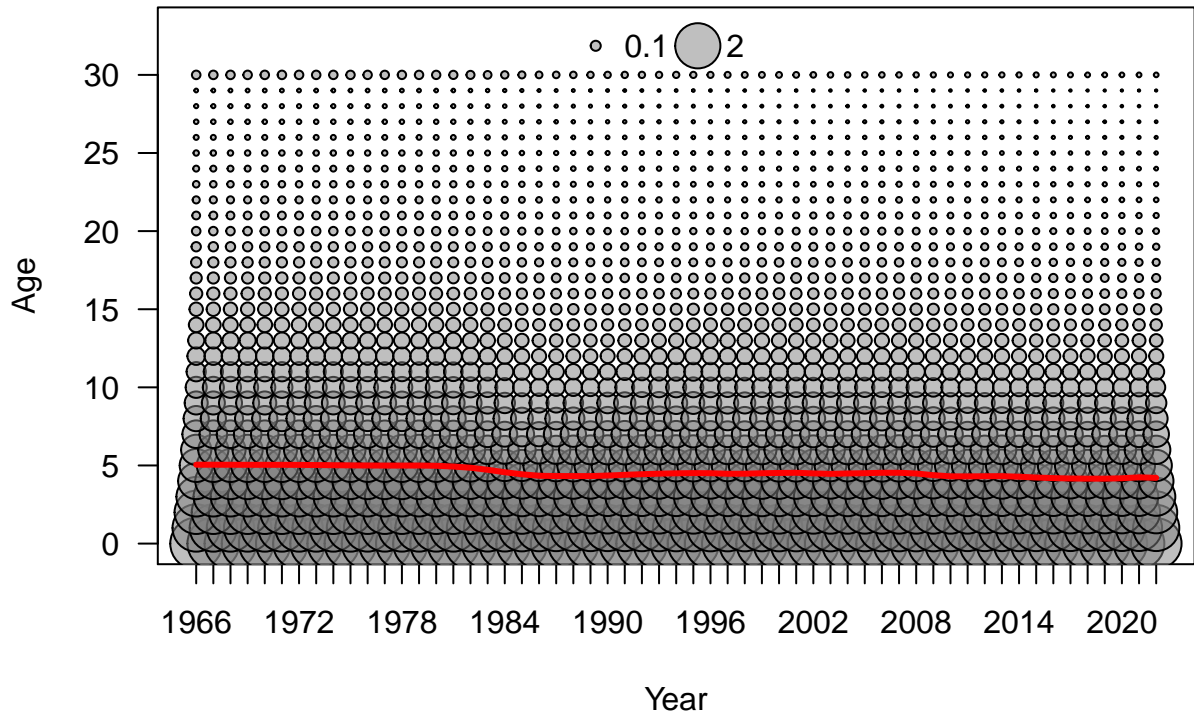


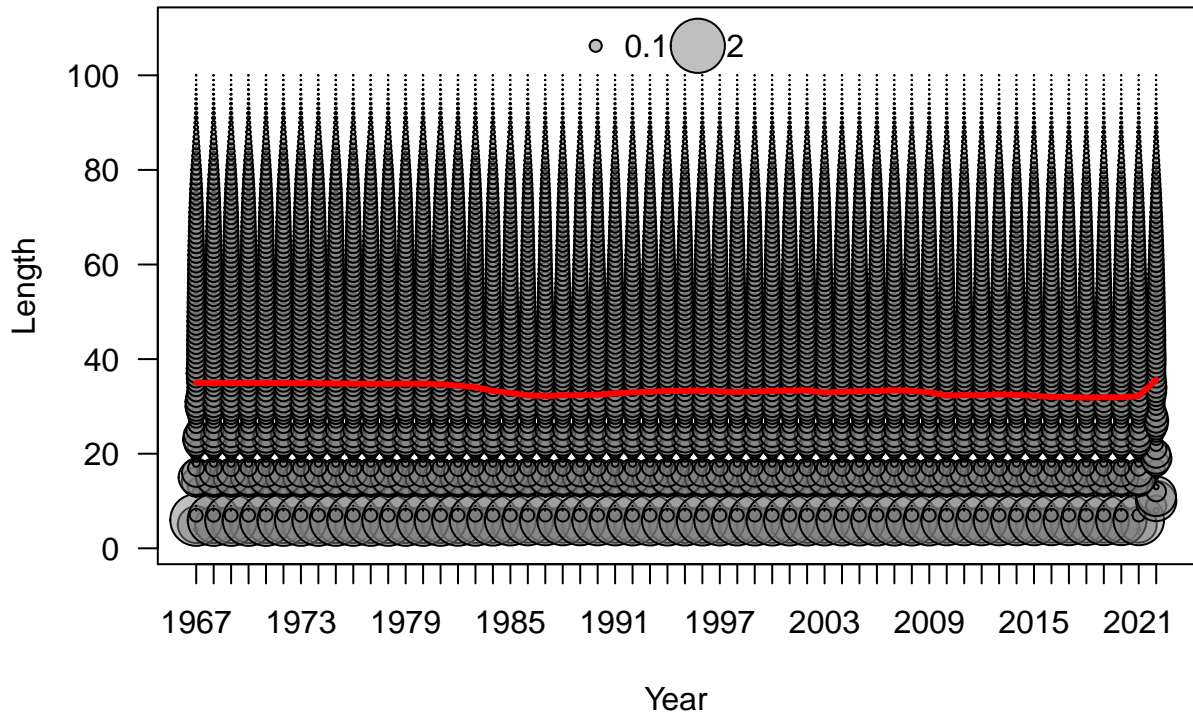


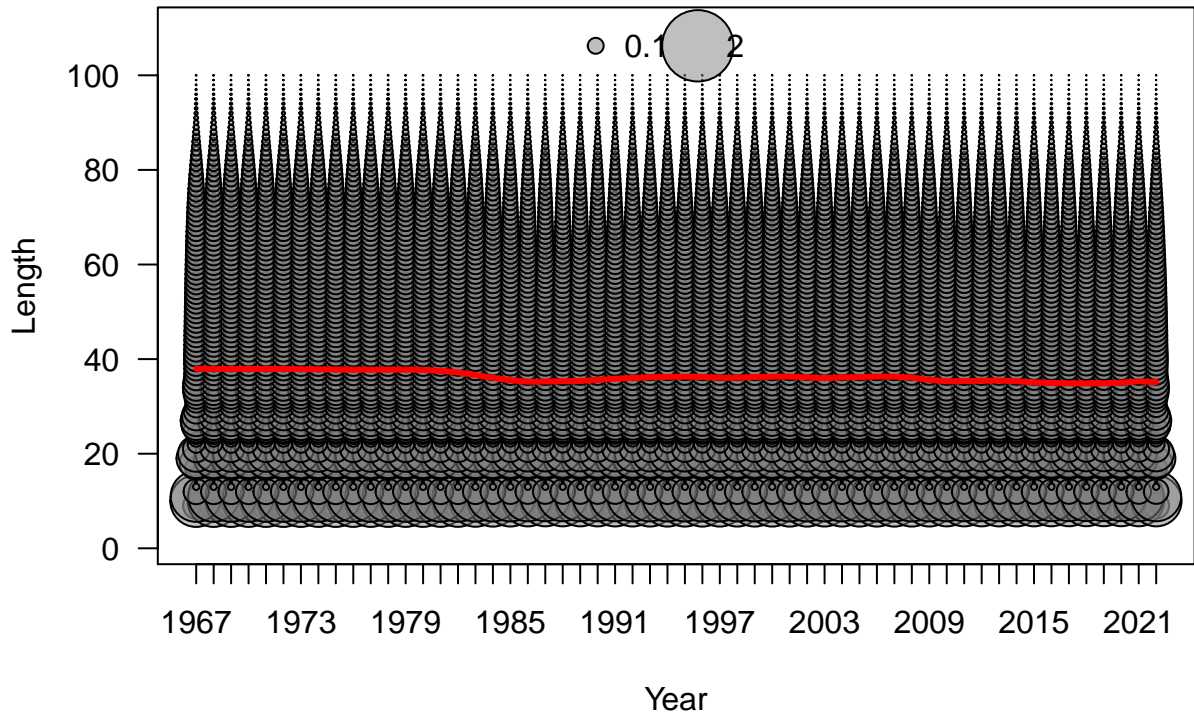


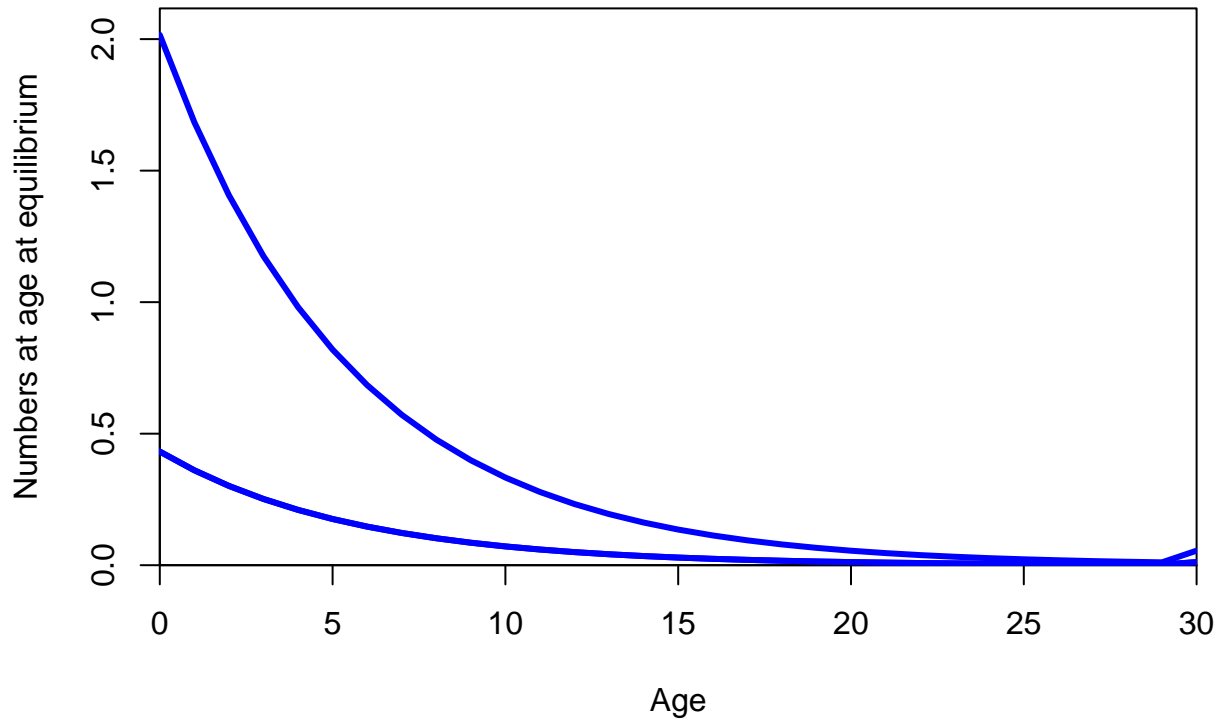






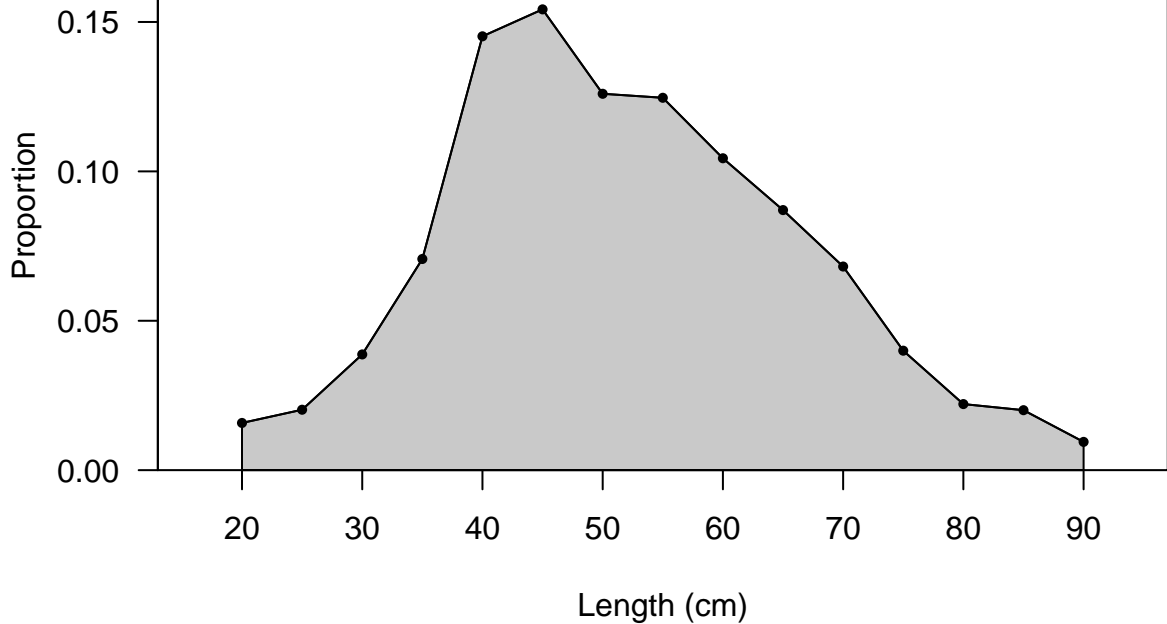






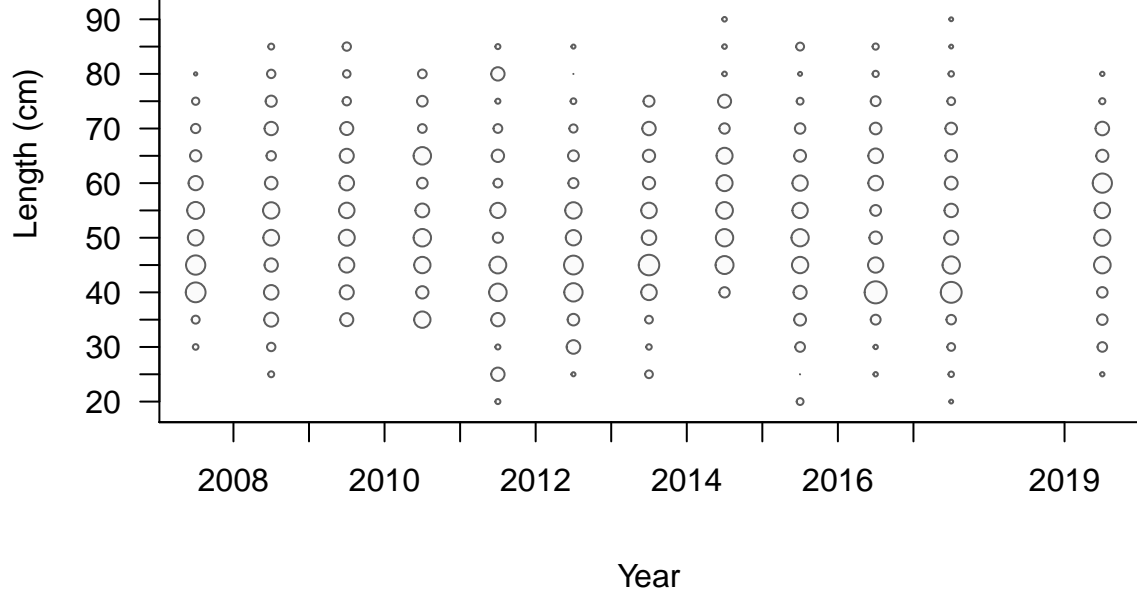
# FISHERY

Sum of N adj.=970.8



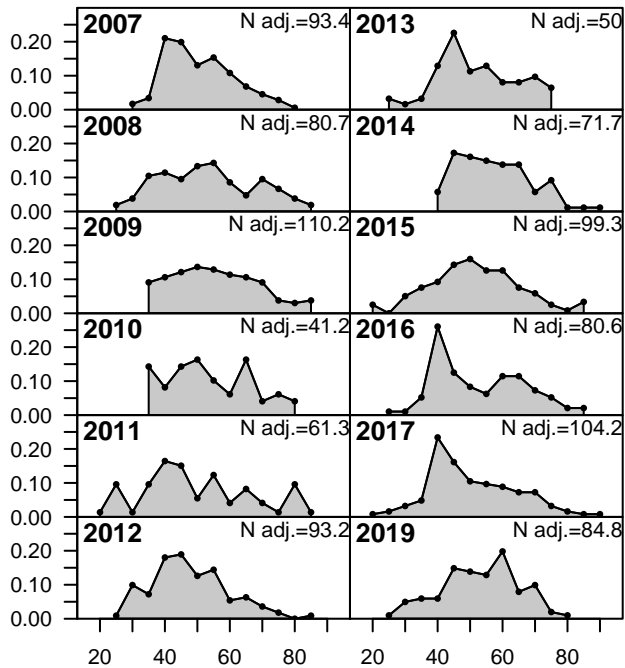
# FISHERY

◦ 0.01 ○ 0.2

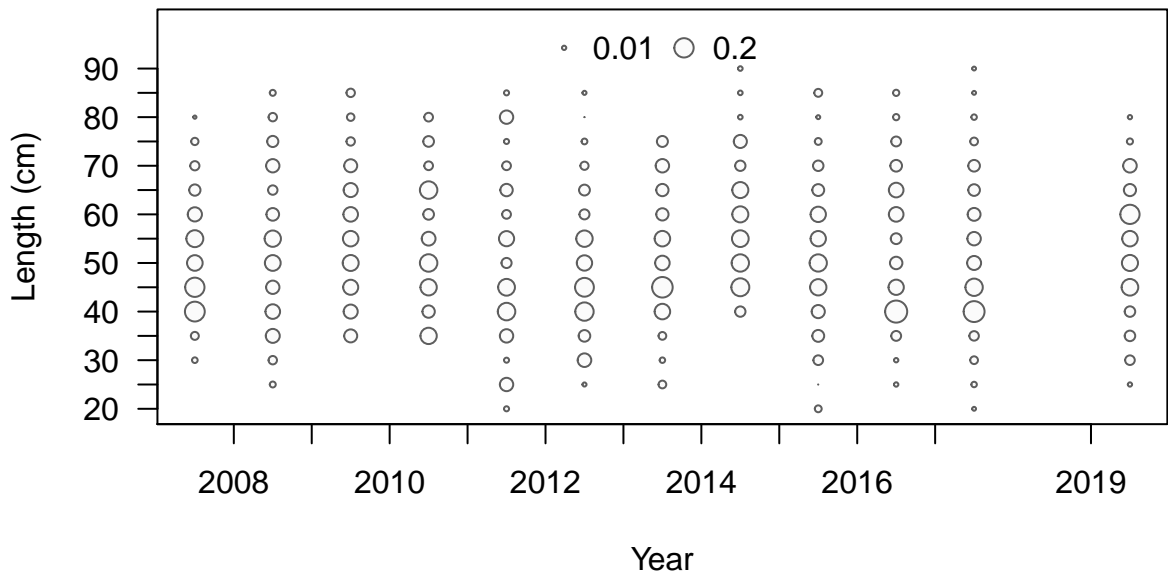




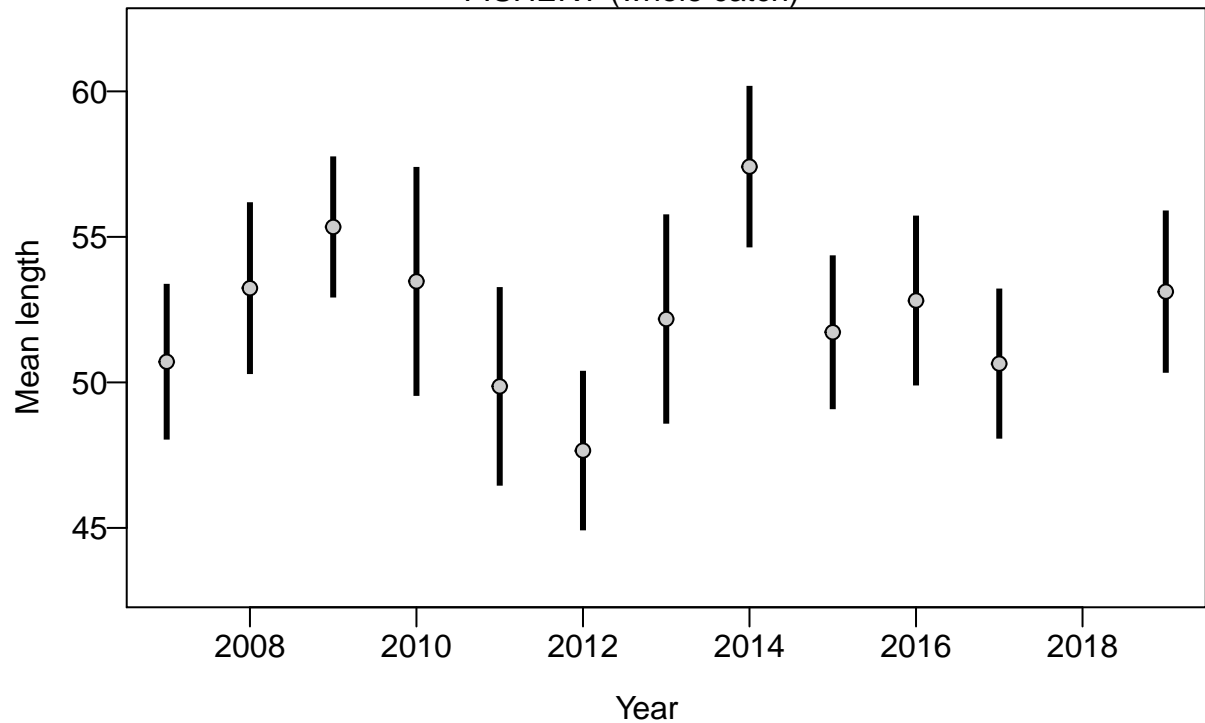
Proportion



Length (cm)

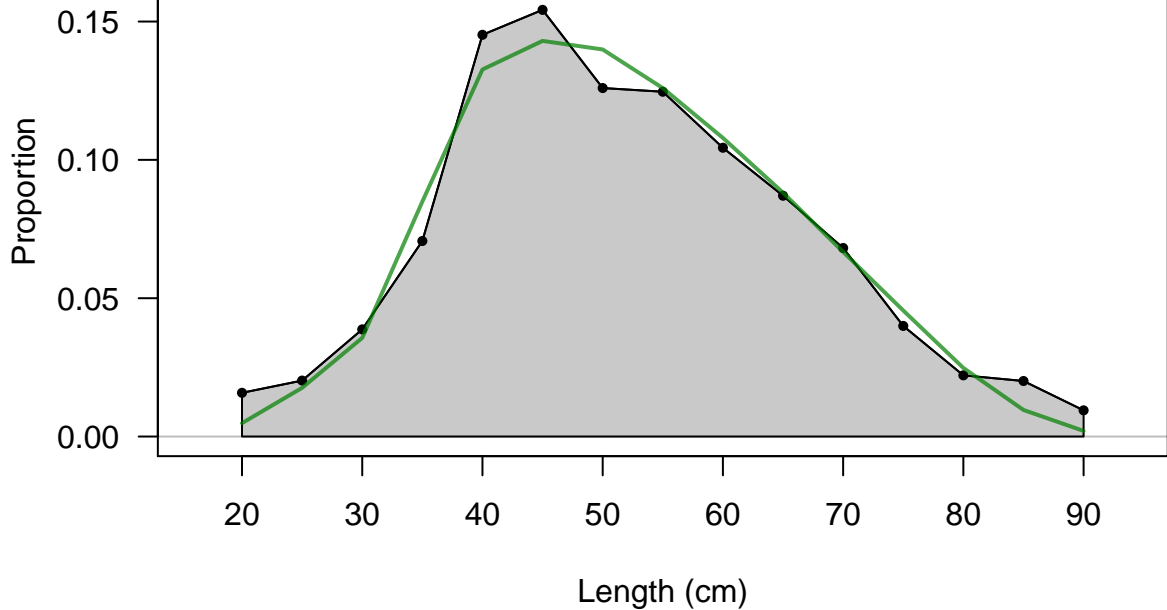


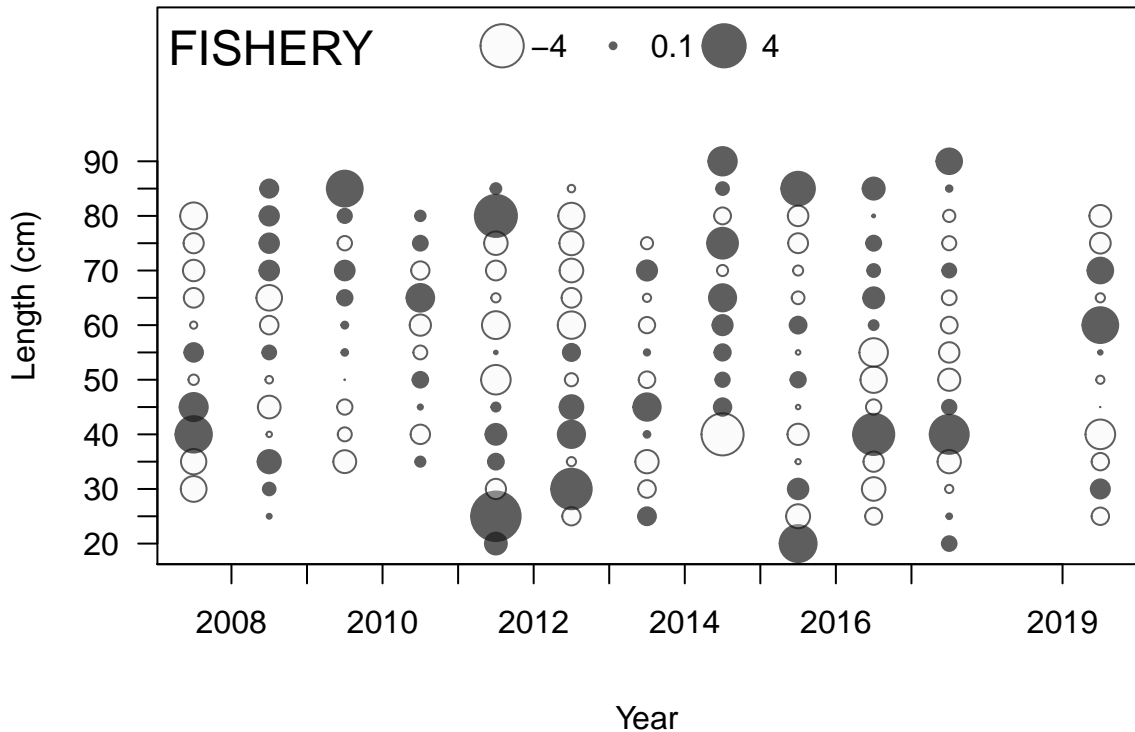
FISHERY (whole catch)



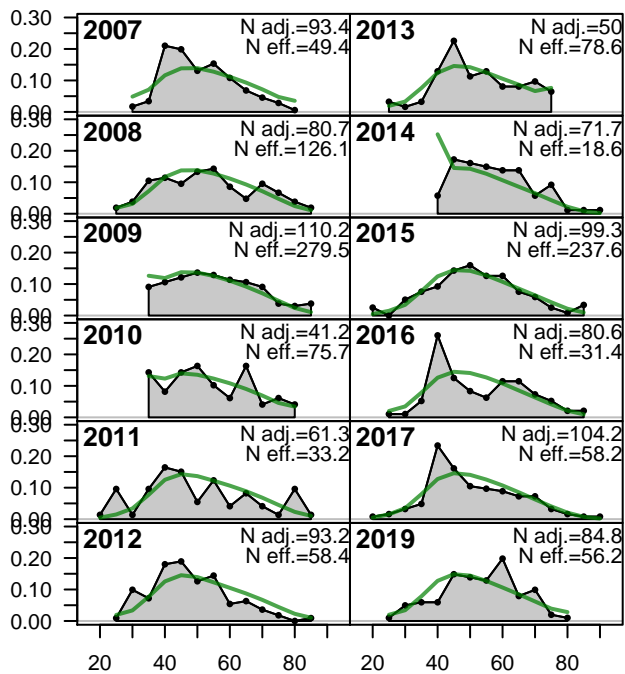
# FISHERY

Sum of N adj.=970.8  
Sum of N eff.=1102.8

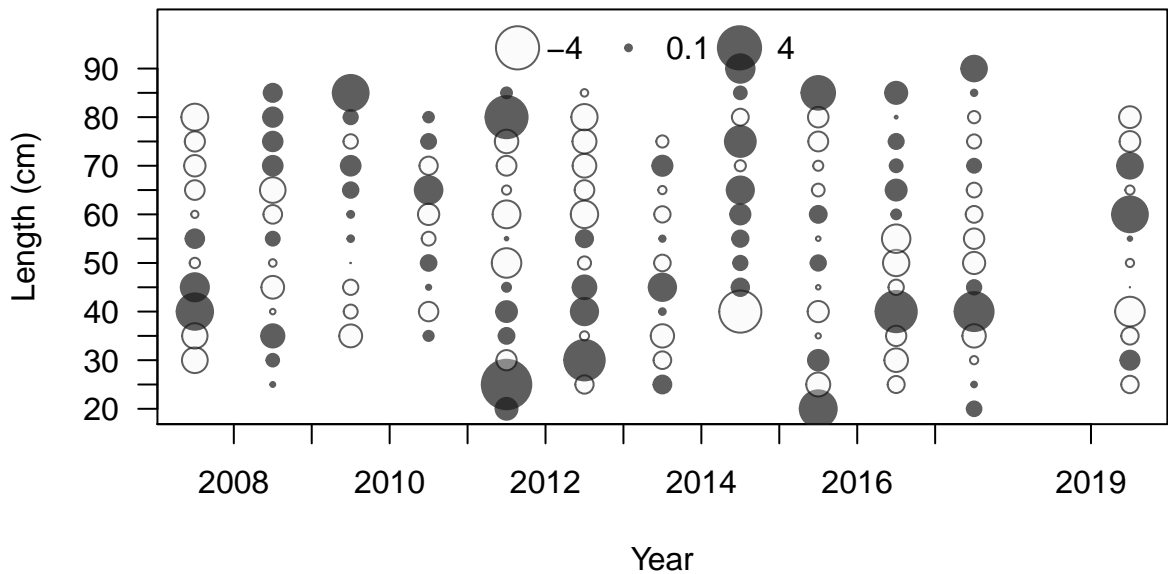




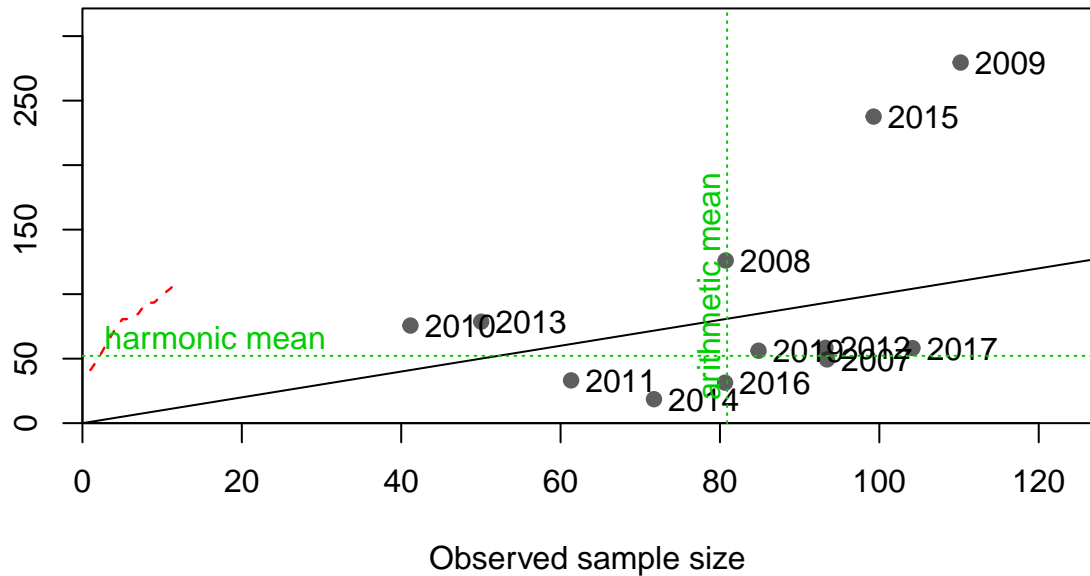
Proportion



Length (cm)

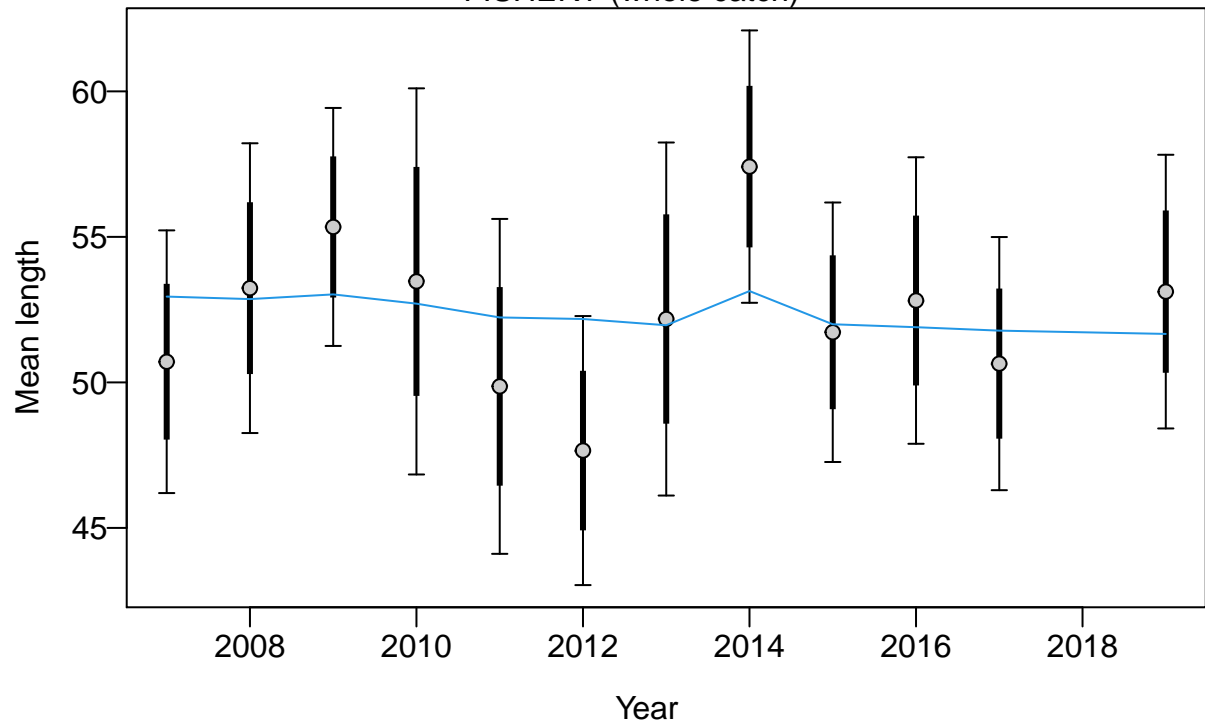


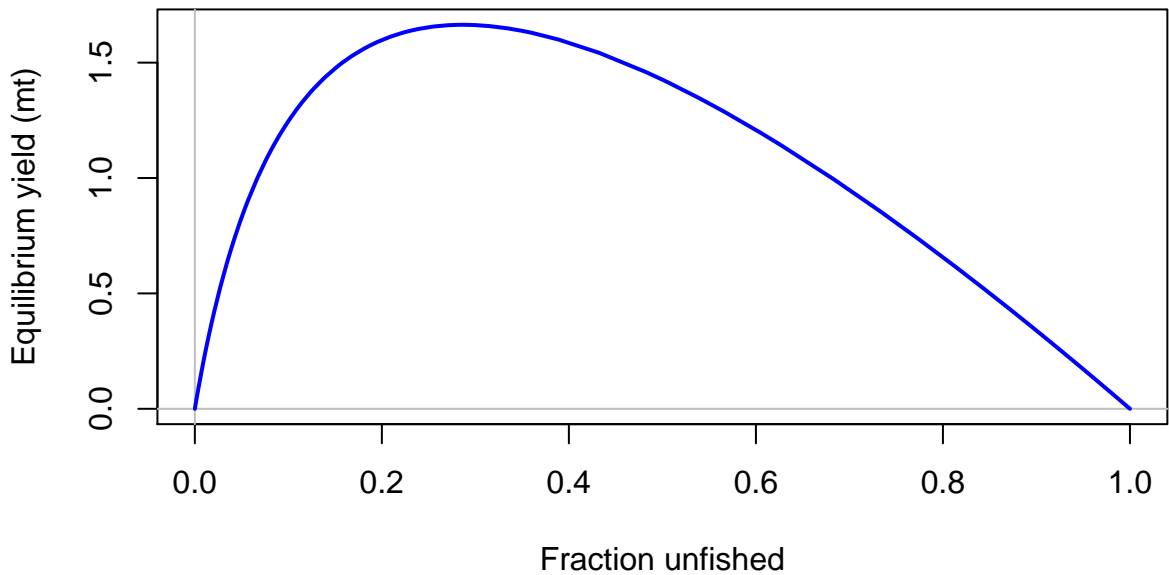
Effective sample size

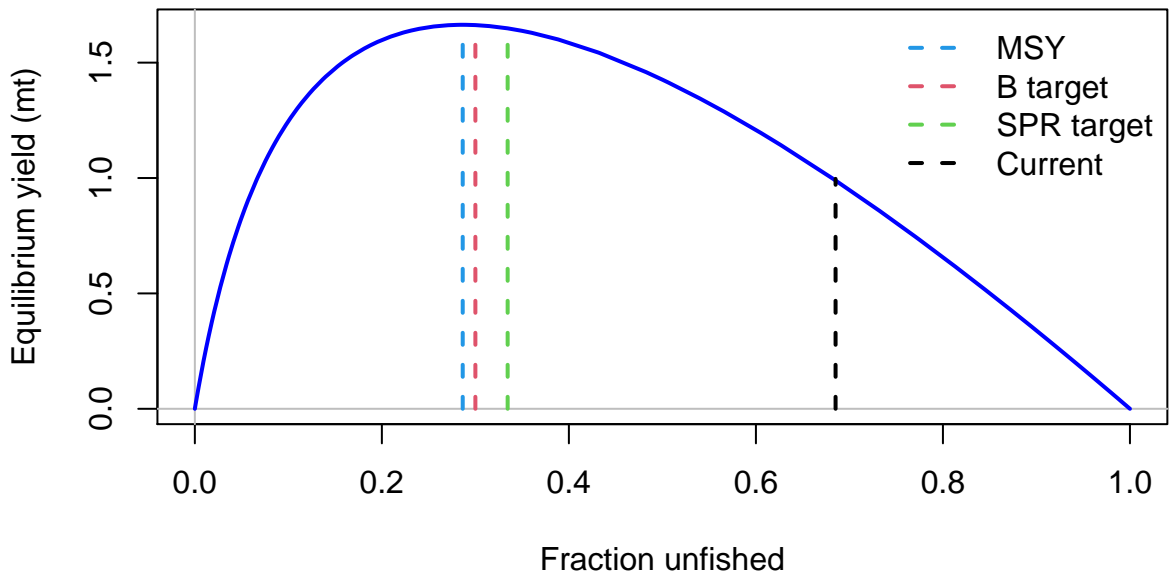


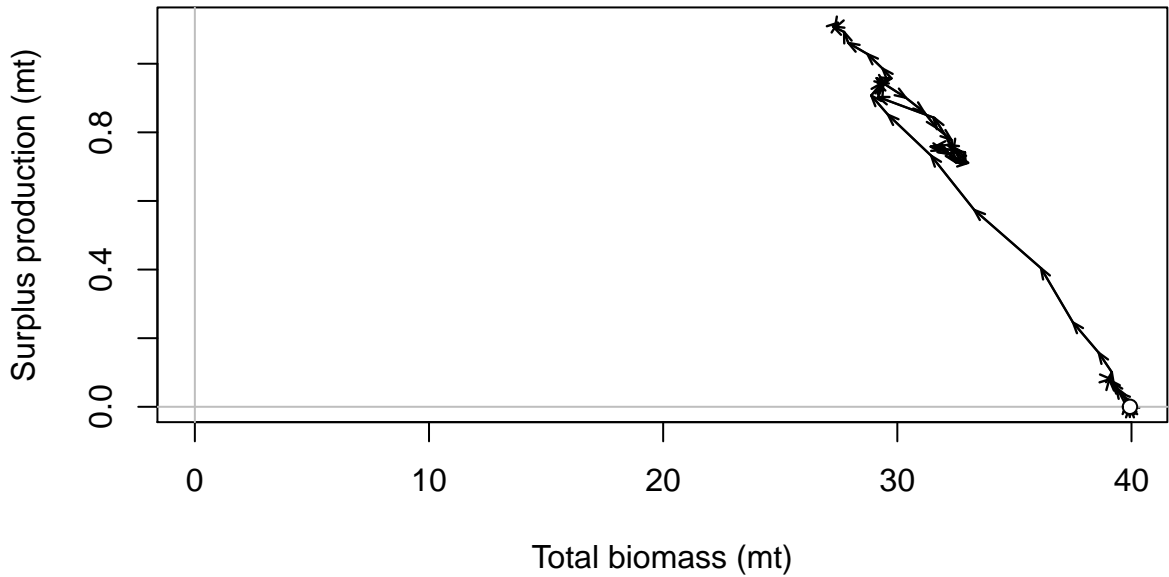


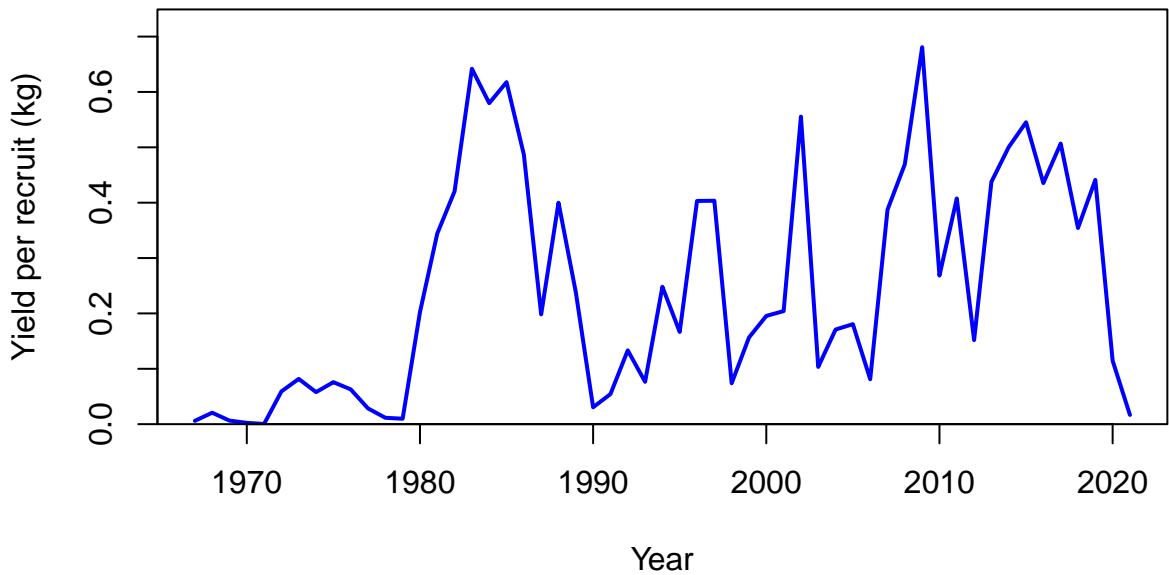
## FISHERY (whole catch)

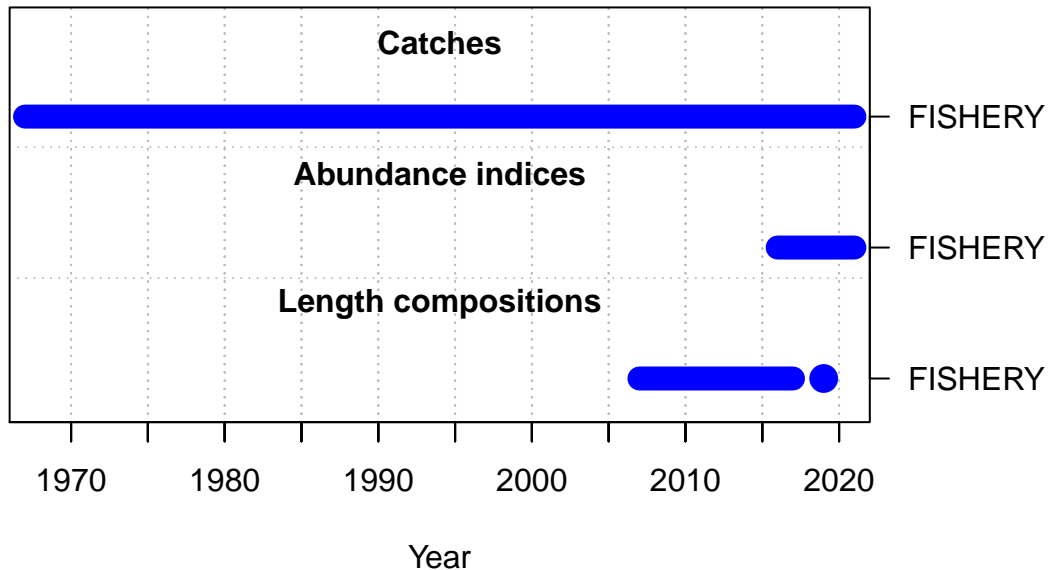


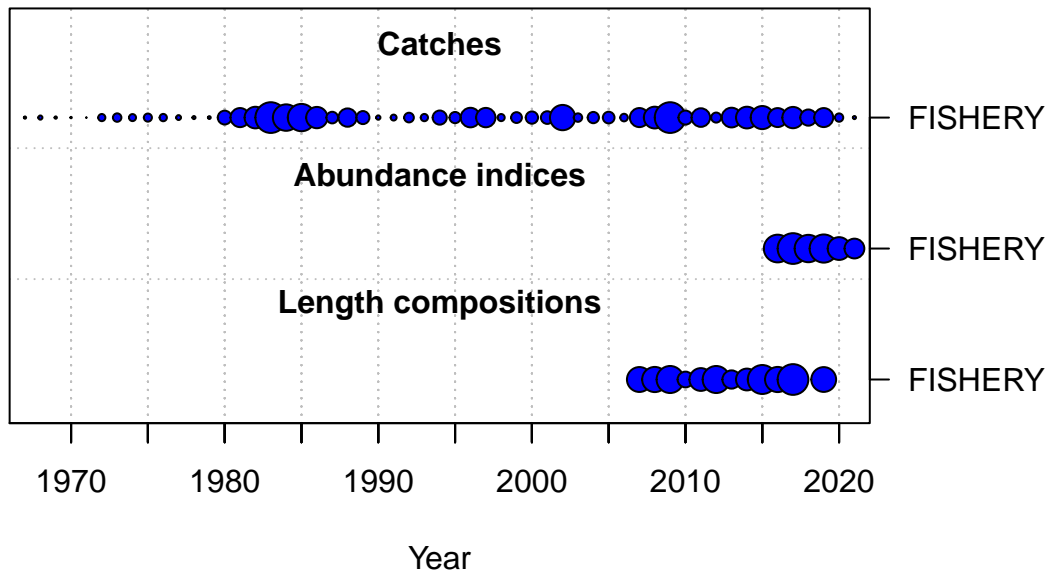




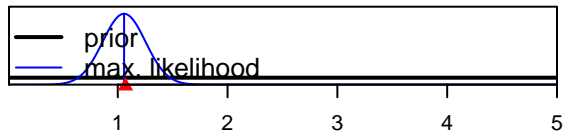




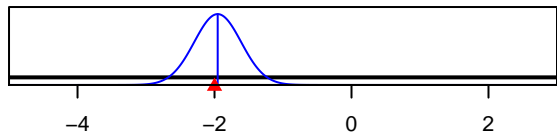




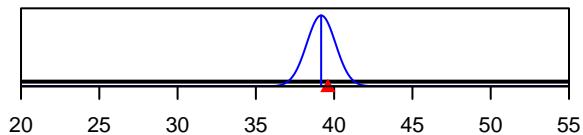
SR\_LN(R0)



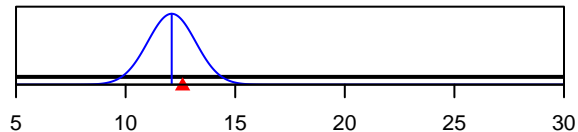
LnQ\_base\_FISHERY(1)



Size\_inflection\_FISHERY(1)



Size\_95%width\_FISHERY(1)



Parameter value