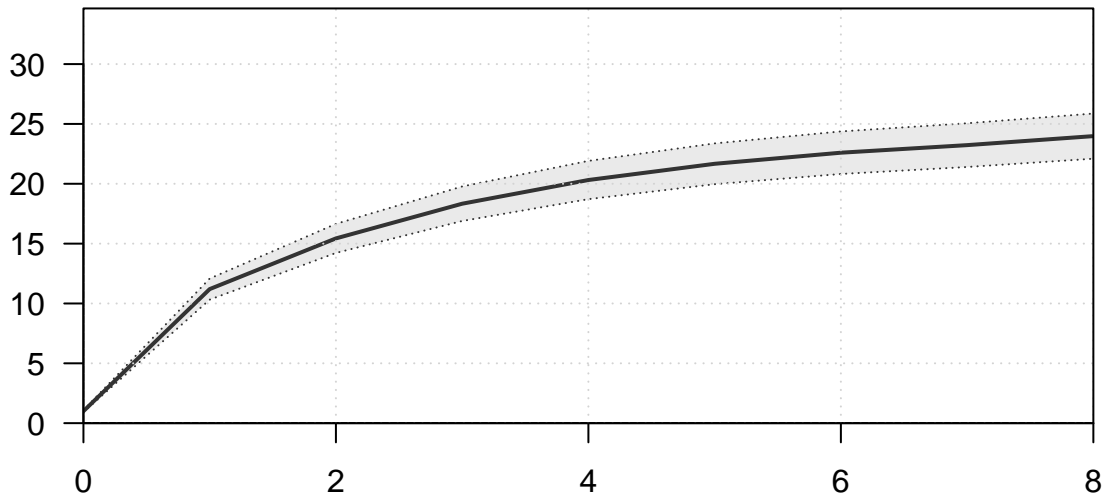


Plots created using the 'r4ss' package in R  
Stock Synthesis version: 3.30.19.0  
StartTime: Sun Feb 19 15:07:32 2023  
Data\_File: data.ss  
Control\_File: control.ss

Length (cm, beginning of the year)



Age (yr)













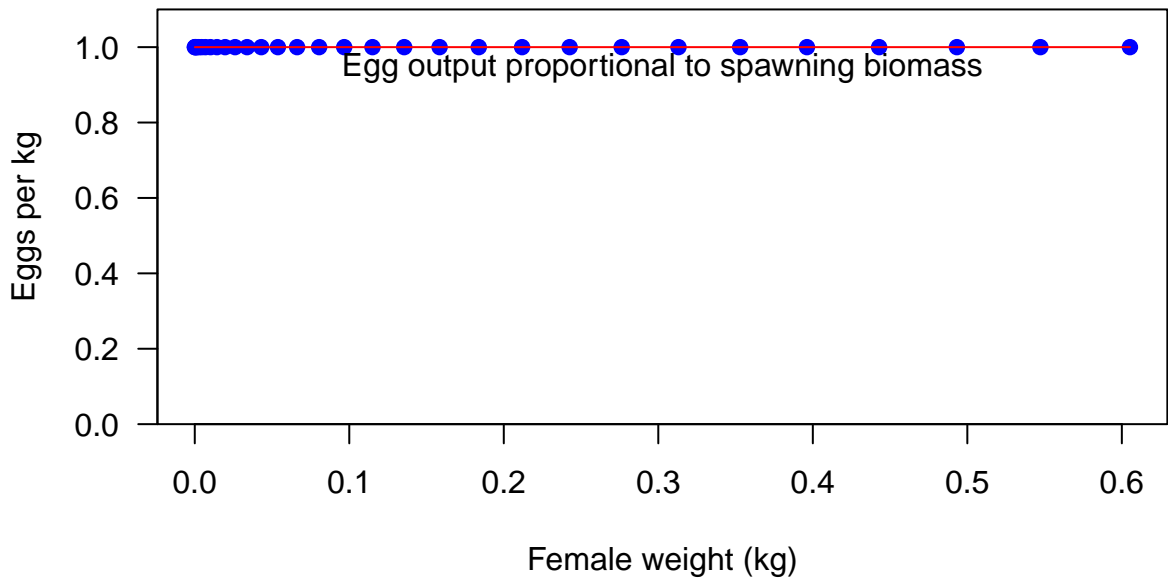






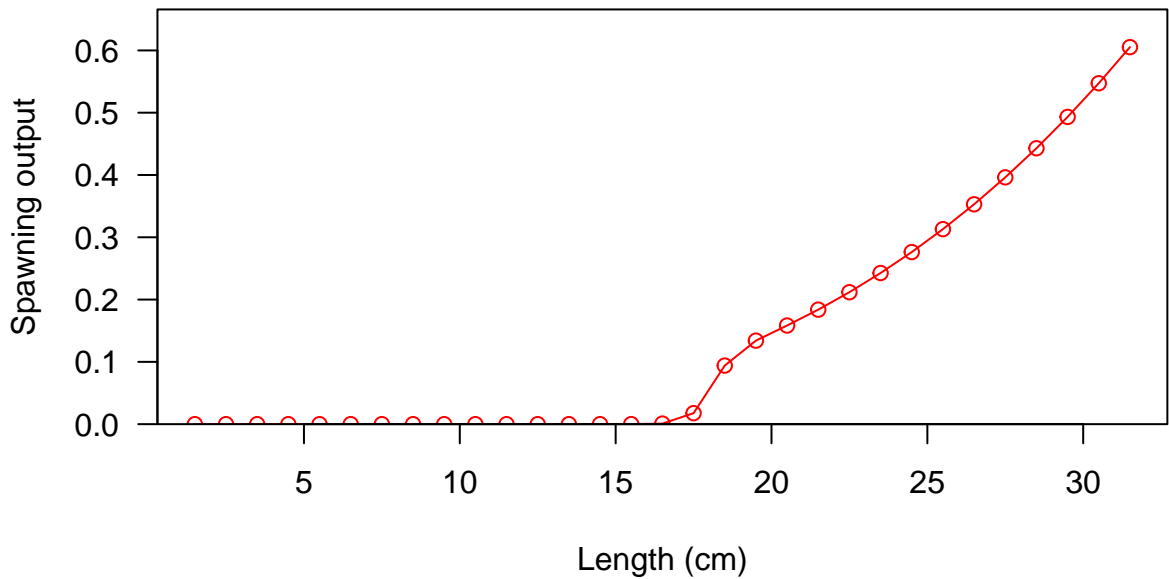








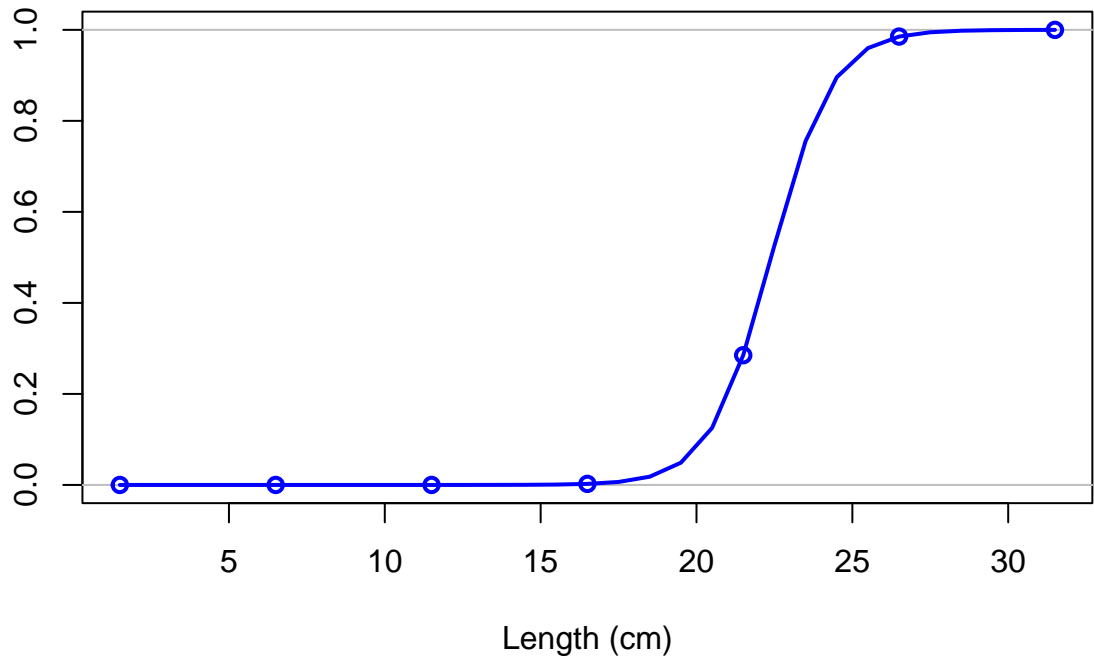




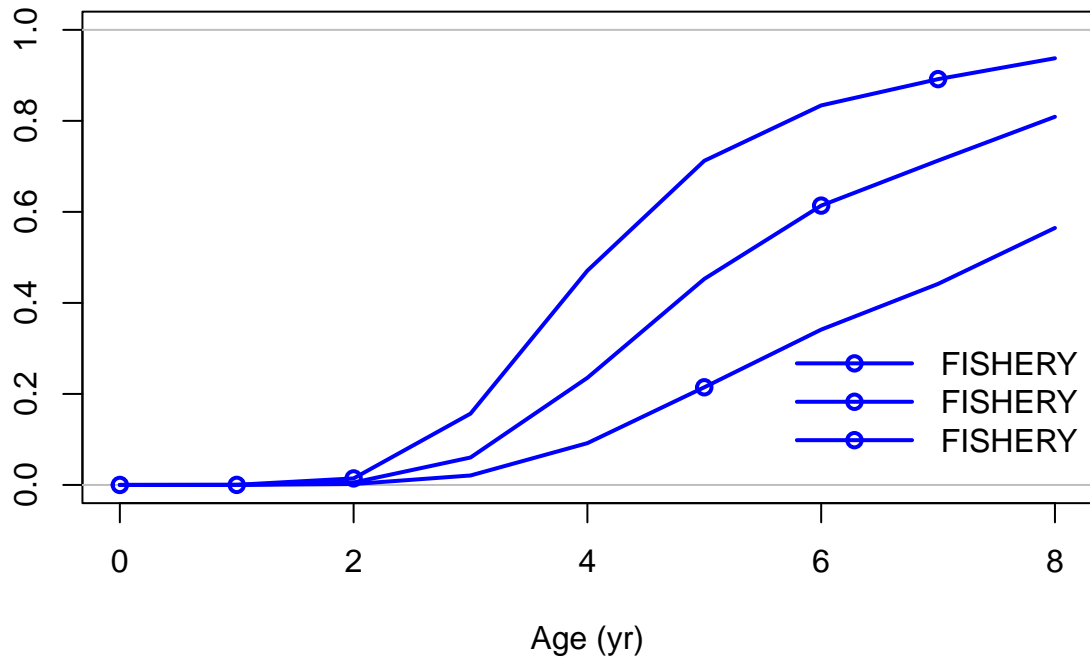




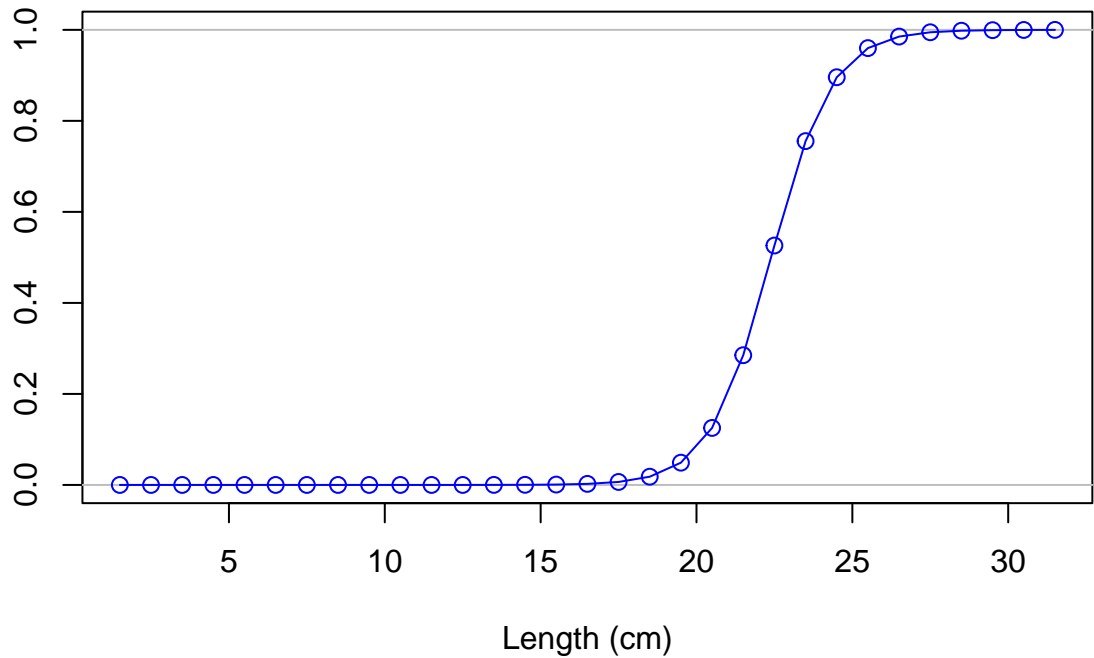
Selectivity

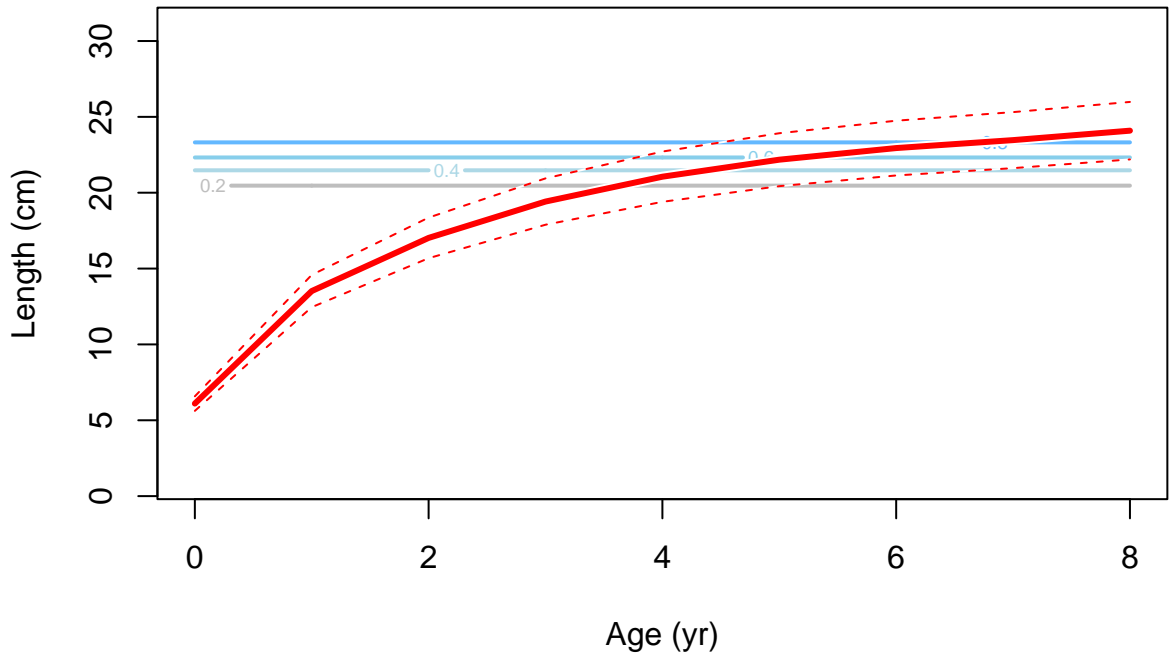


Selectivity

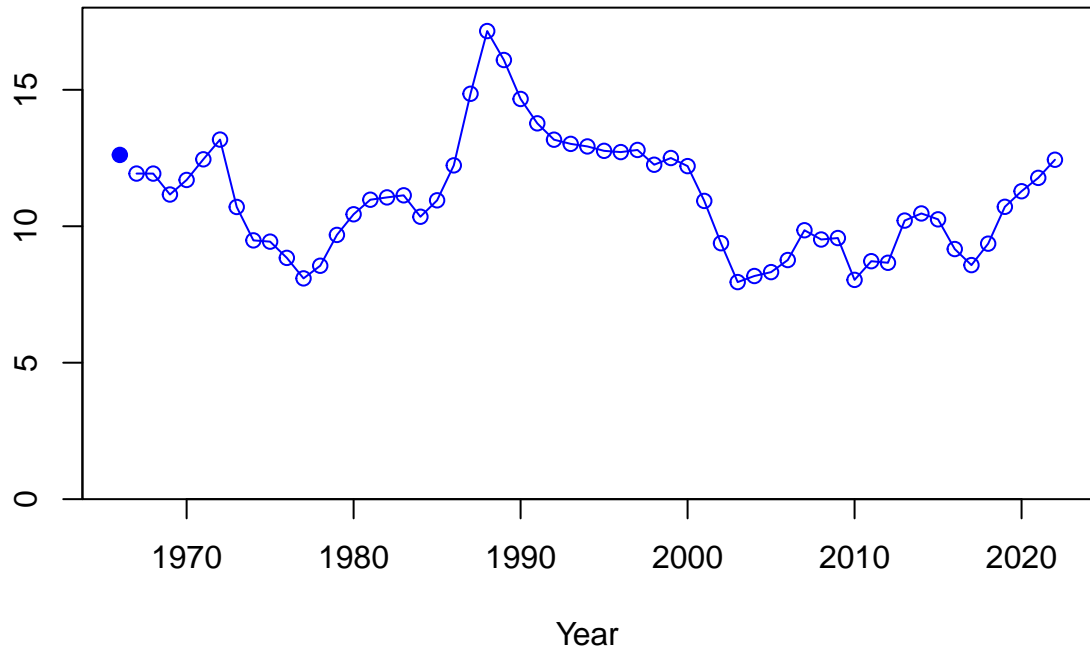


Selectivity

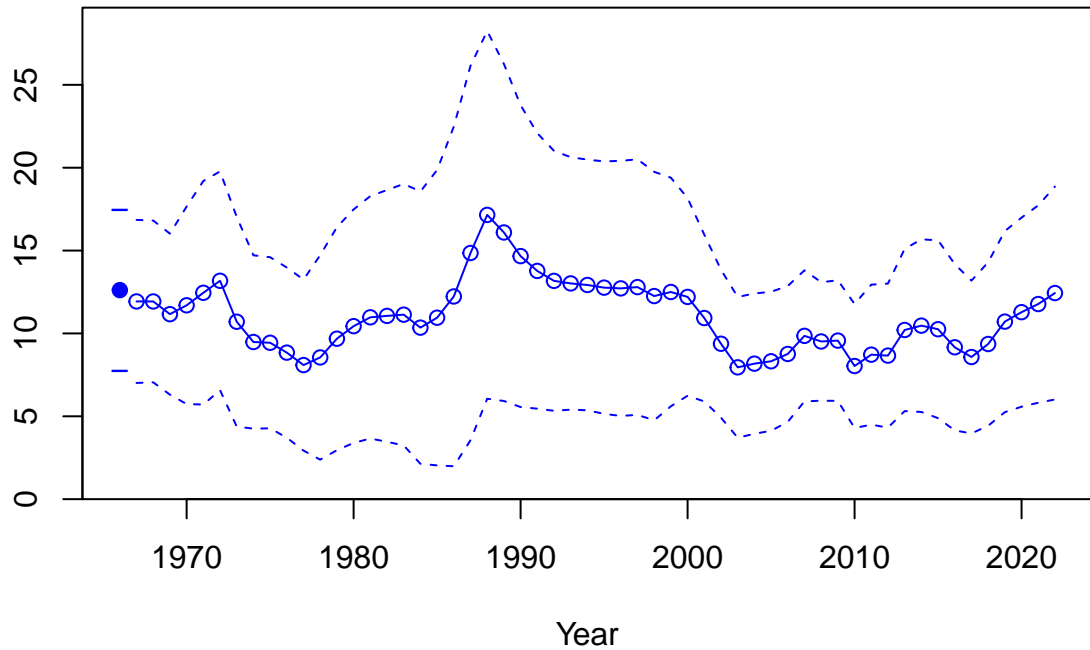




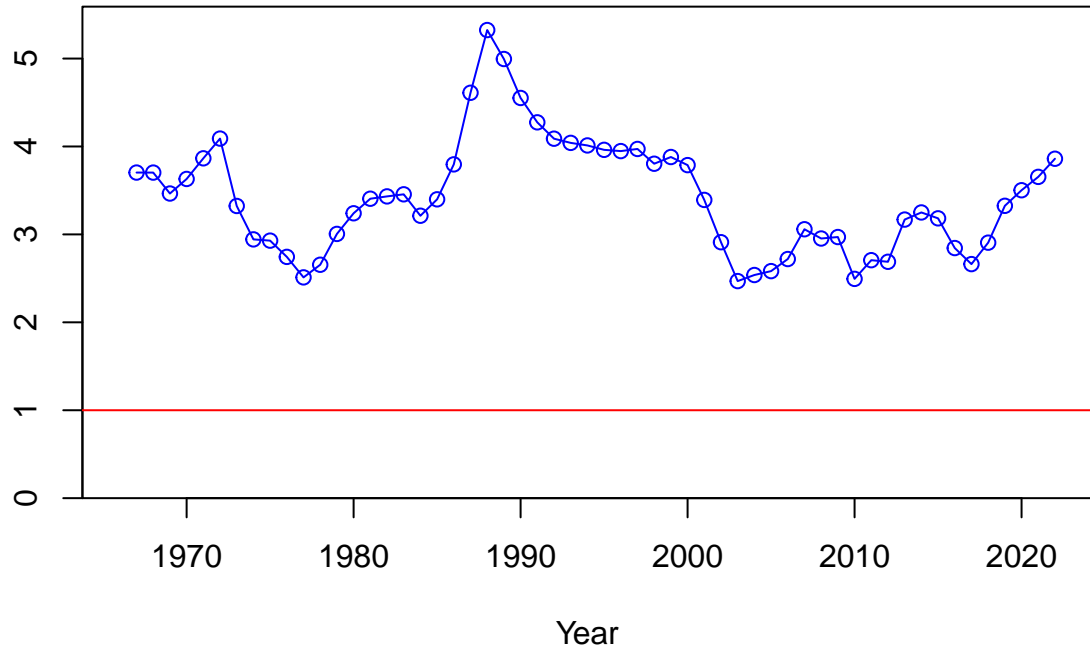
Spawning biomass (mt)



Spawning biomass (mt)

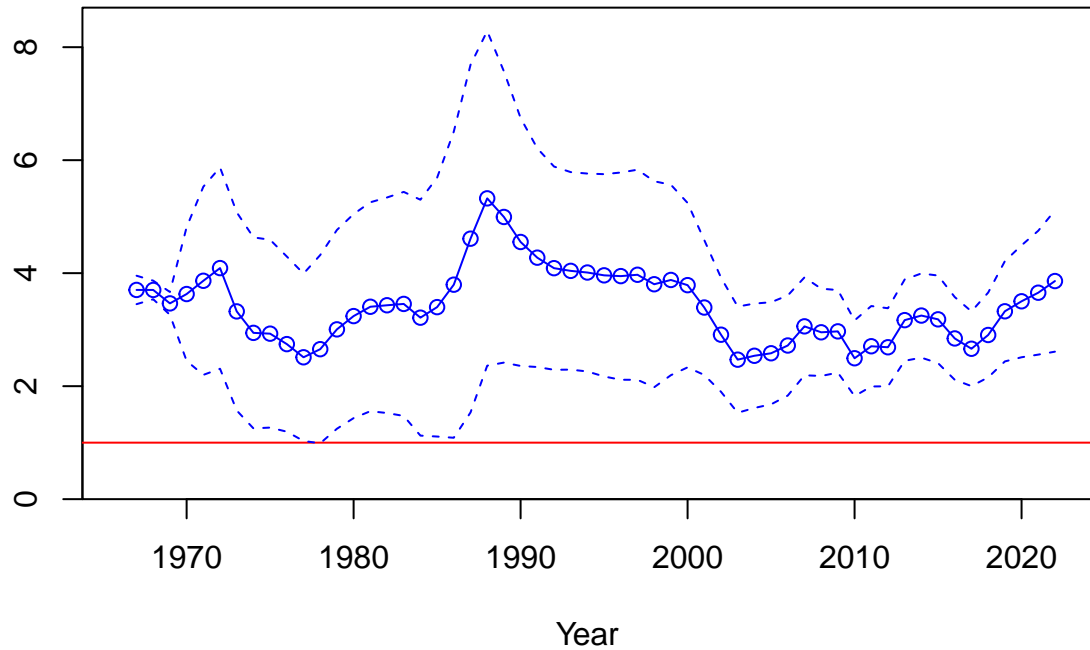


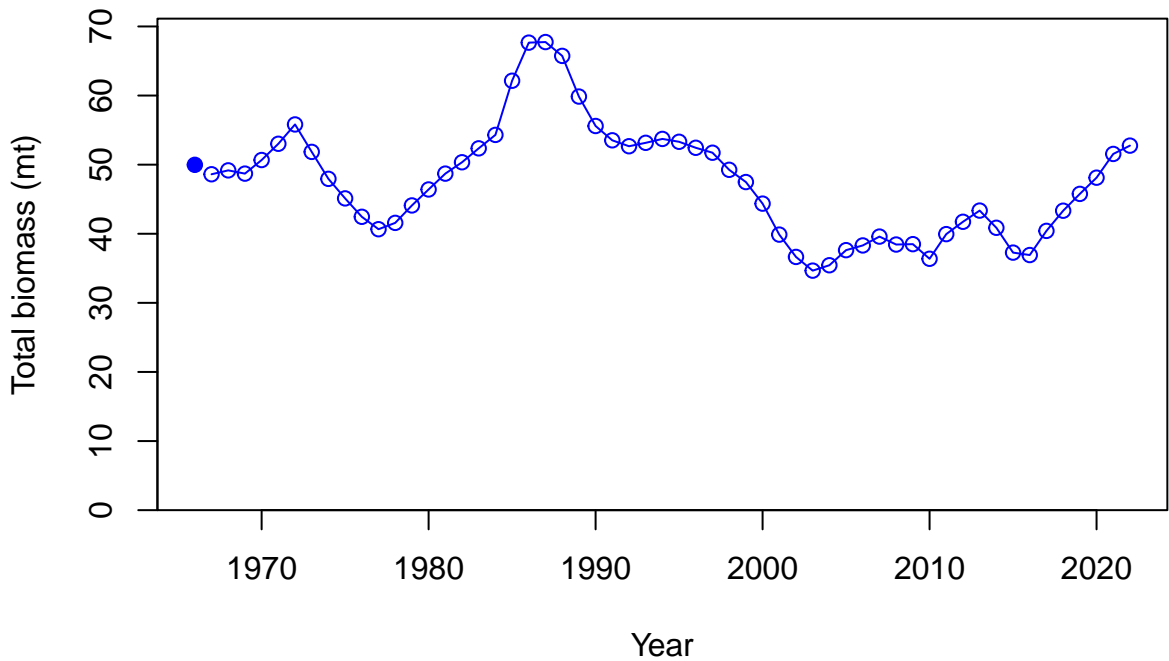
Relative spawning biomass:  $B/B_{MSY}$

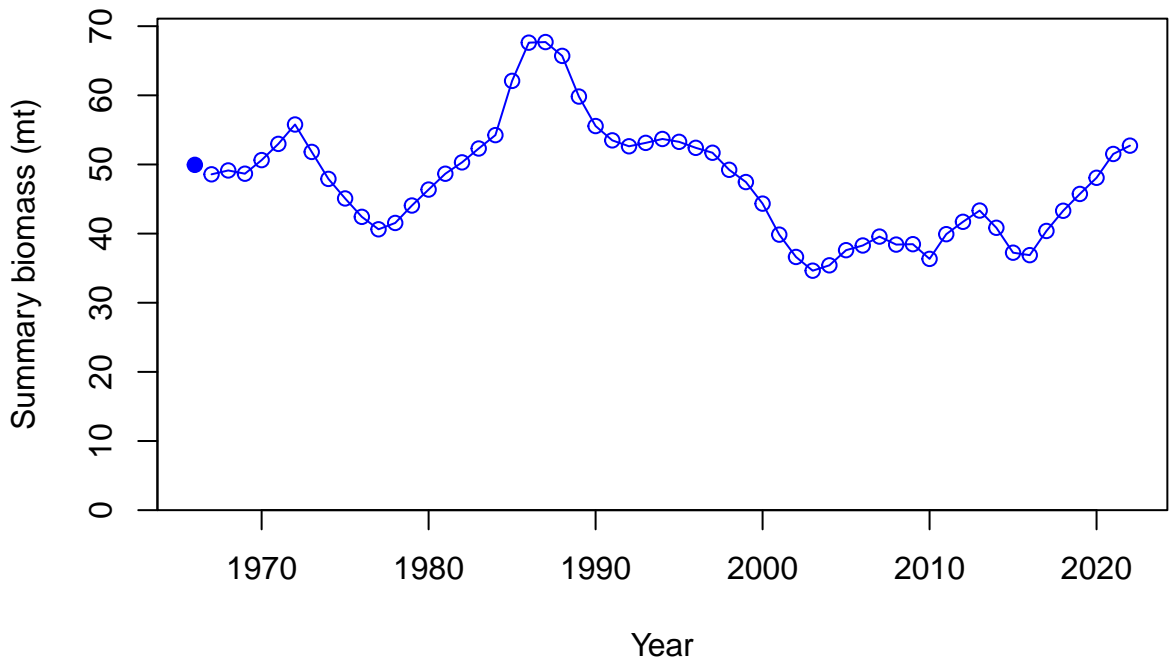


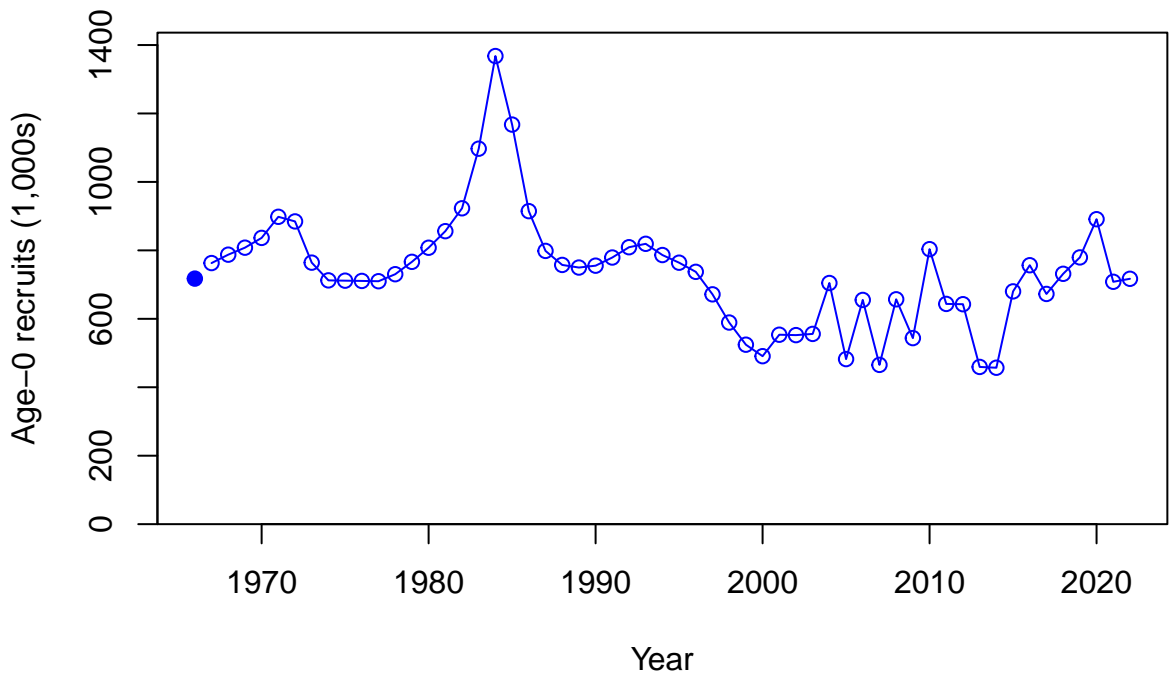


Relative spawning biomass:  $B/B_{MSY}$

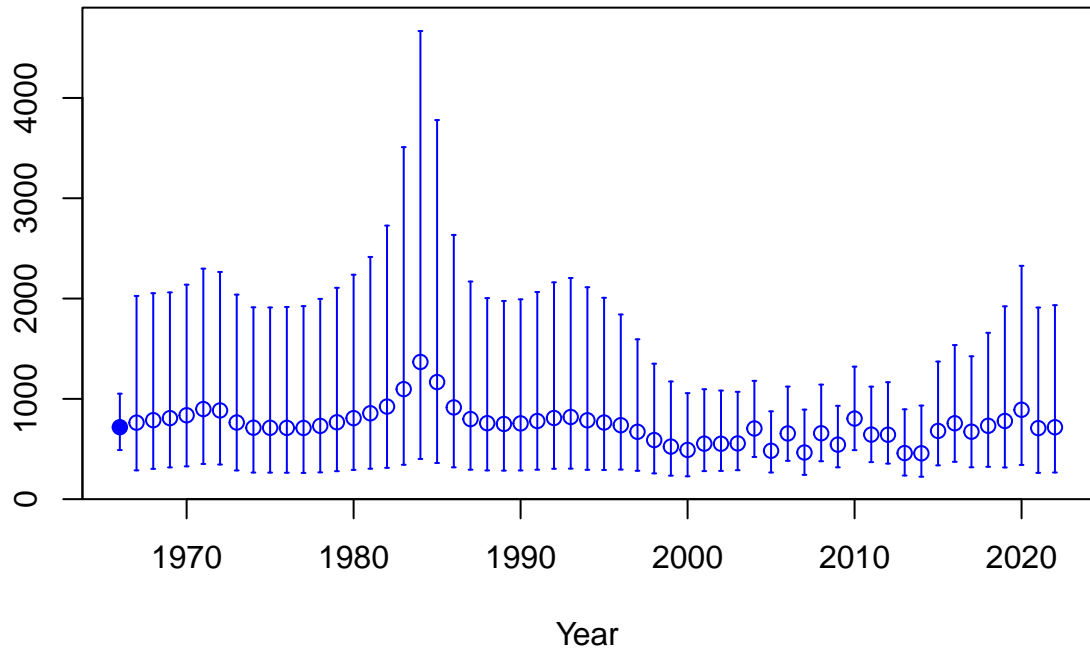




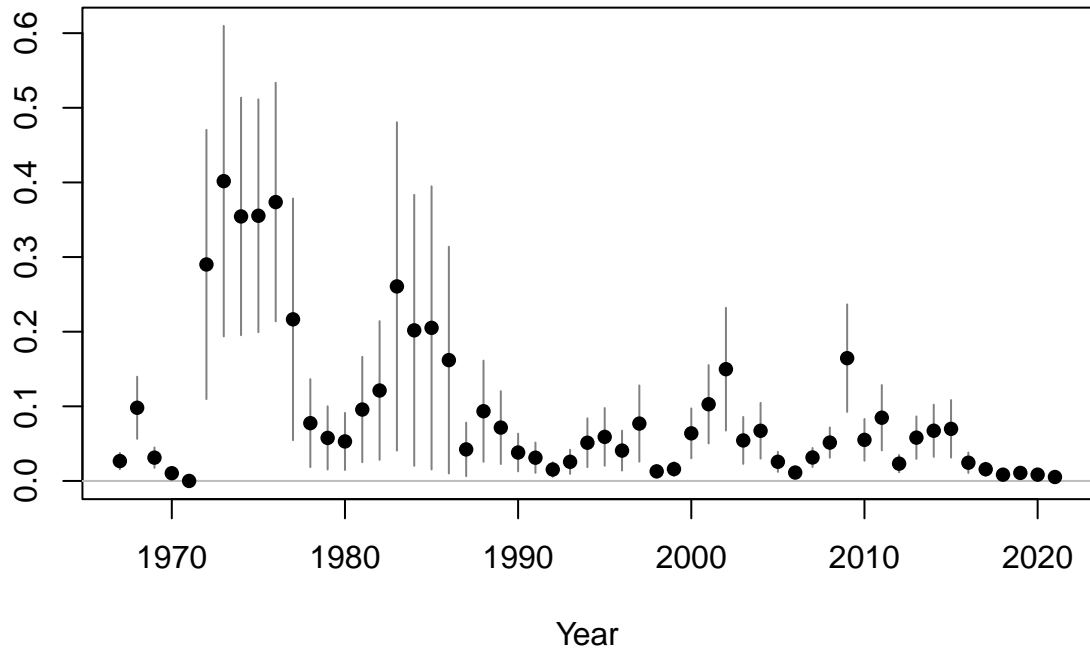


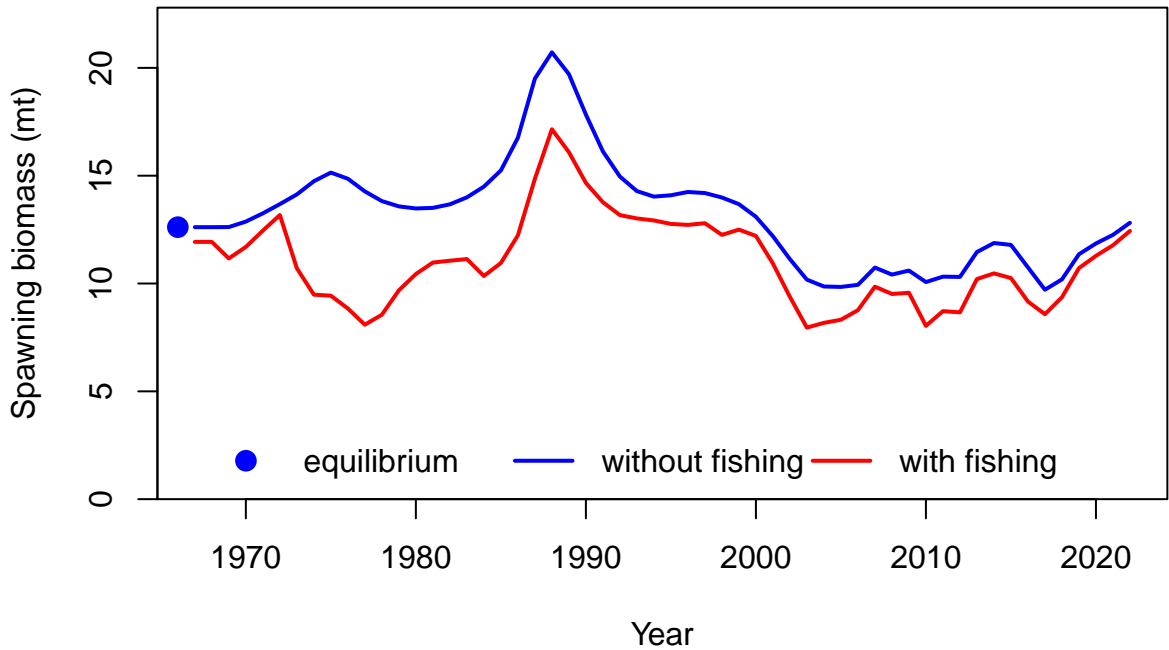


Age-0 recruits (1,000s)

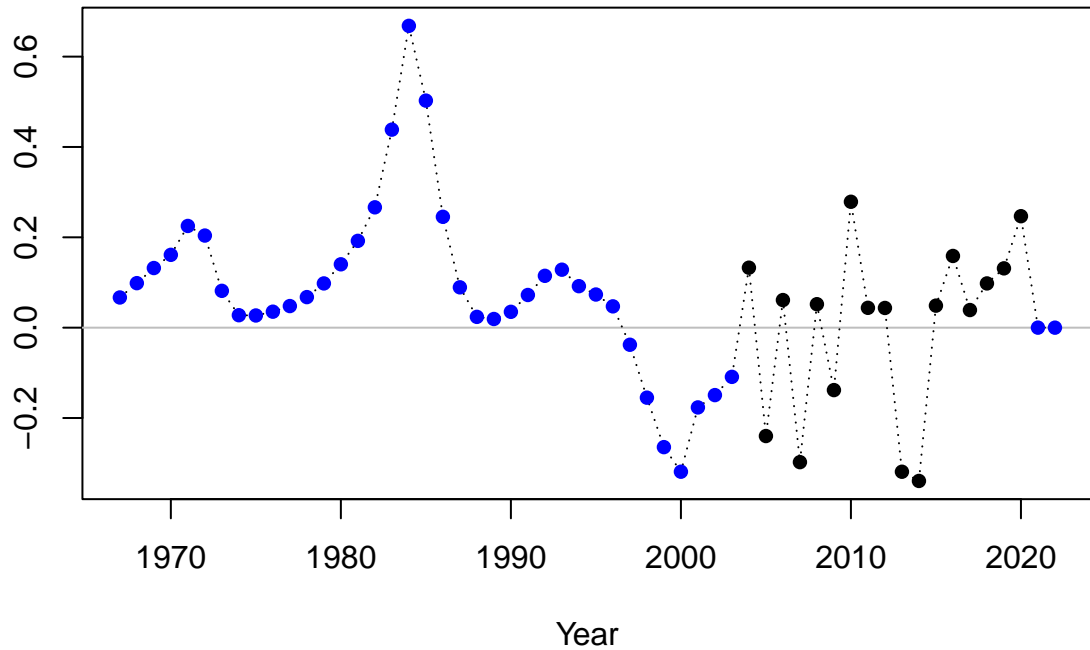


Summary Fishing Mortality



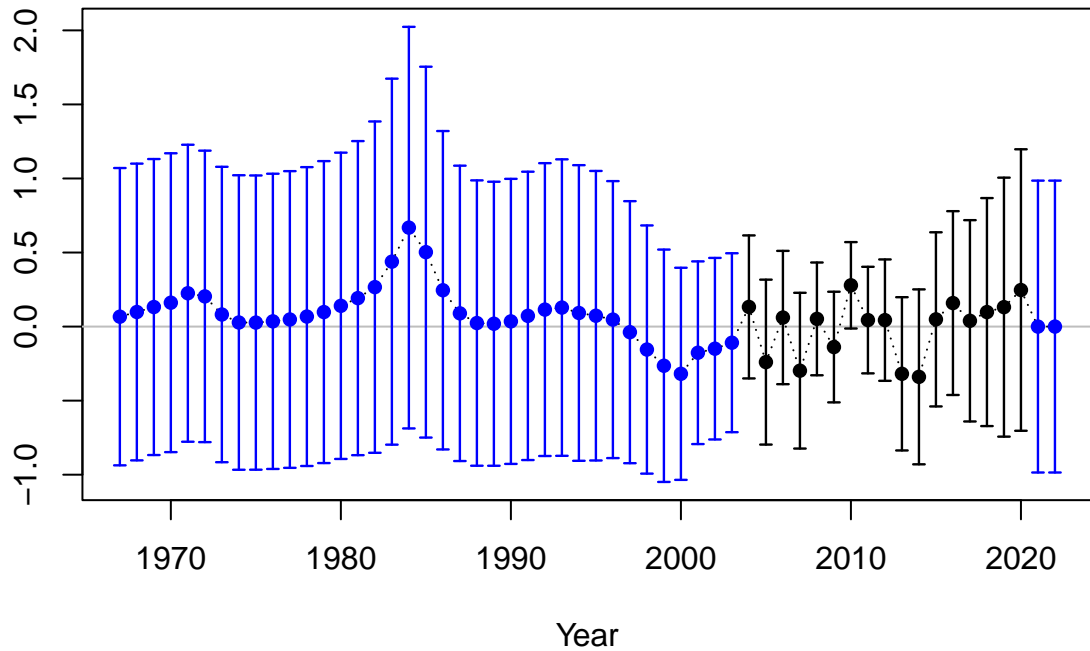


Log recruitment deviation



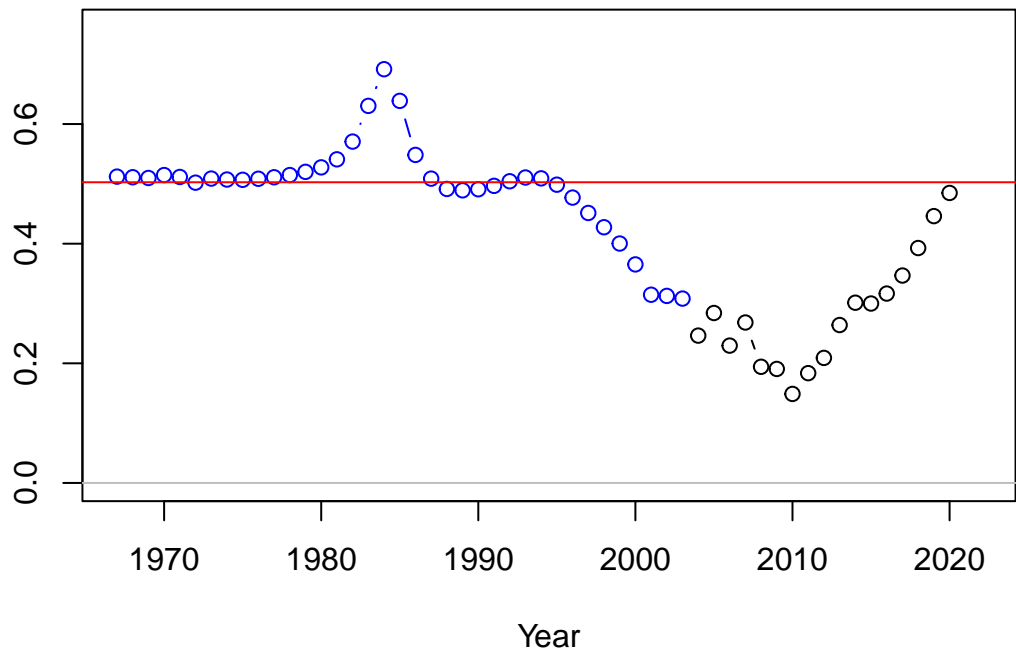


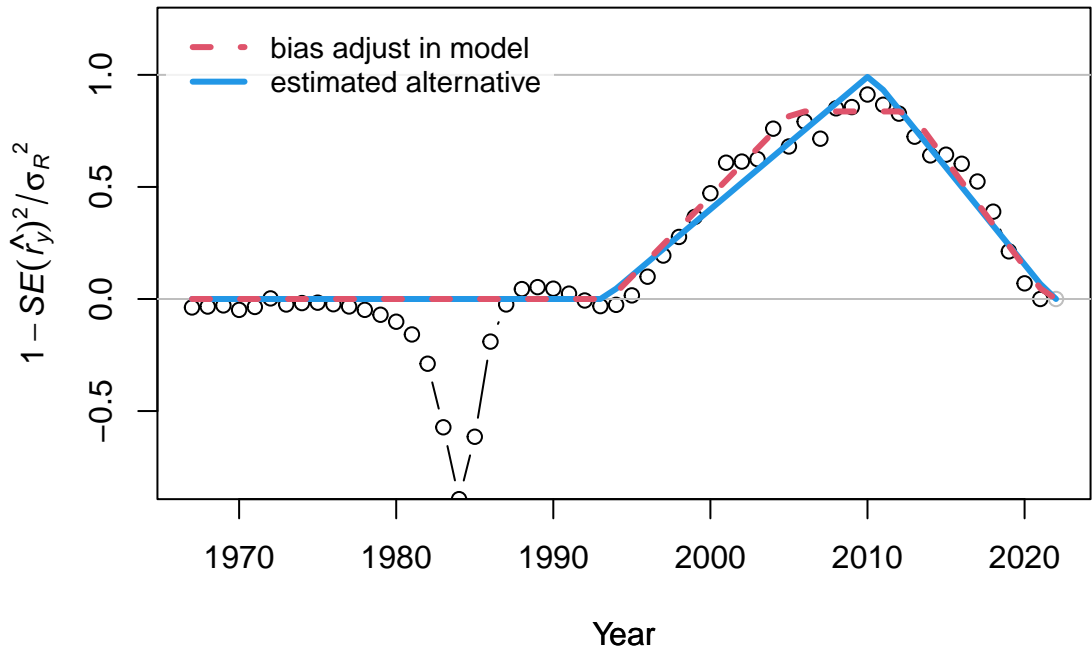
Log recruitment deviation

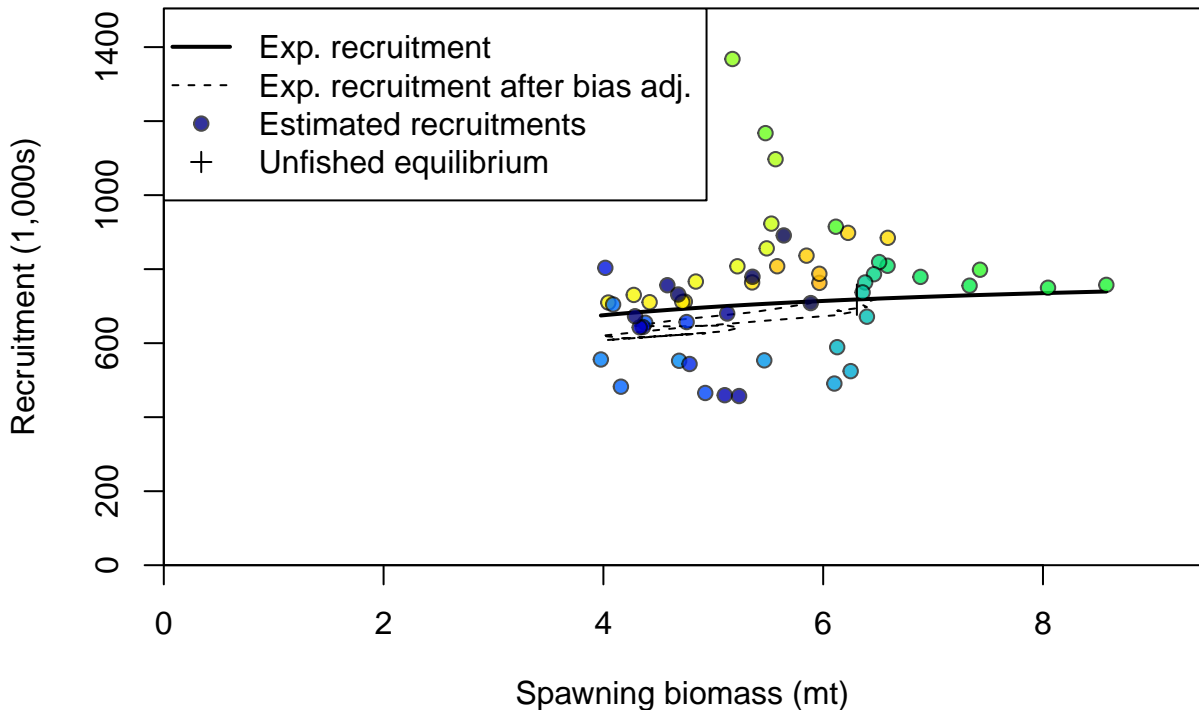


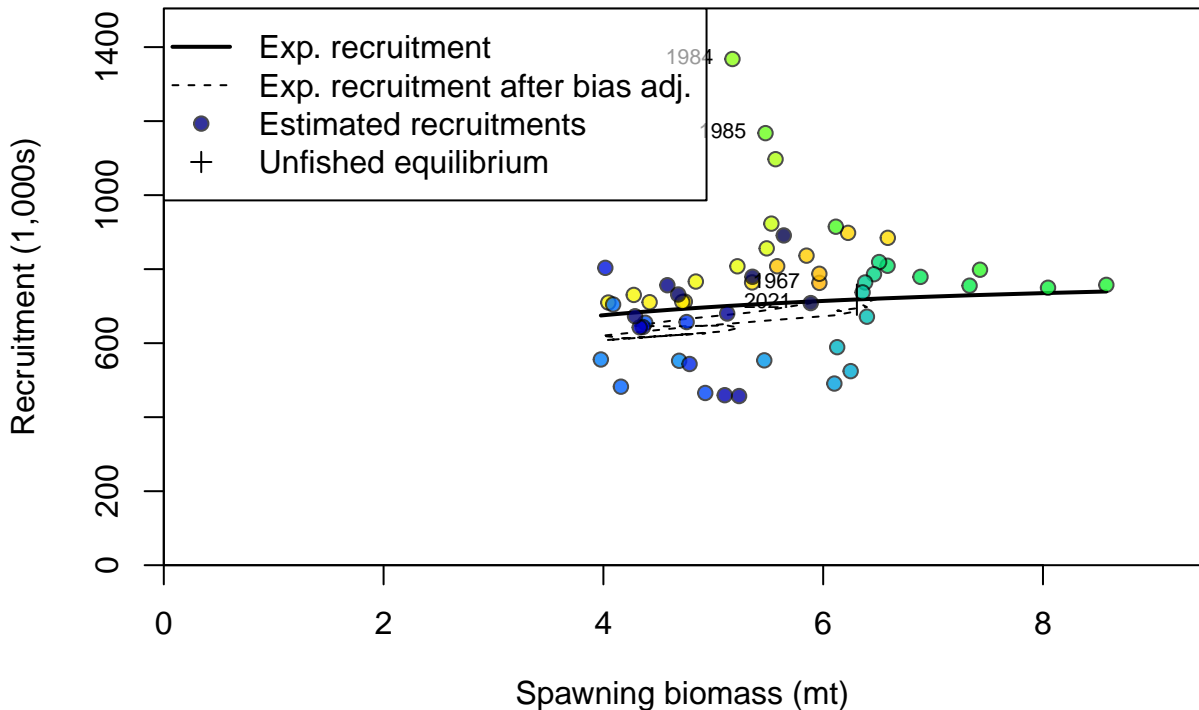
## Recruitment deviation variance

Asymptotic standard error estimate

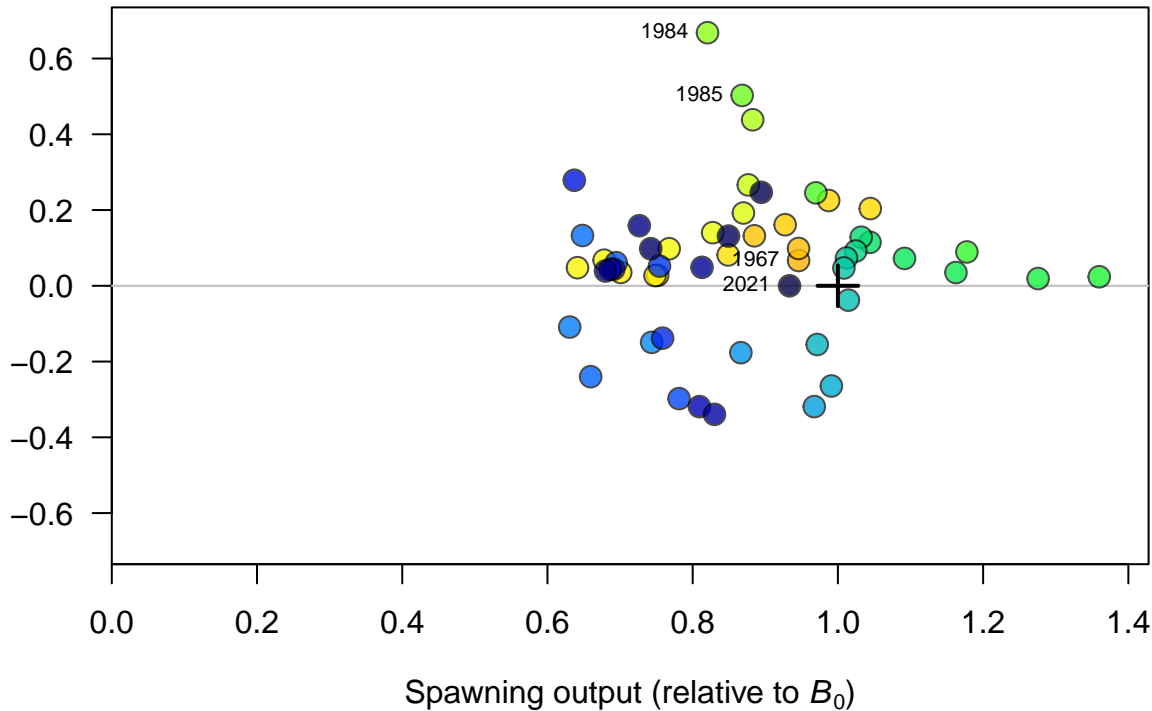


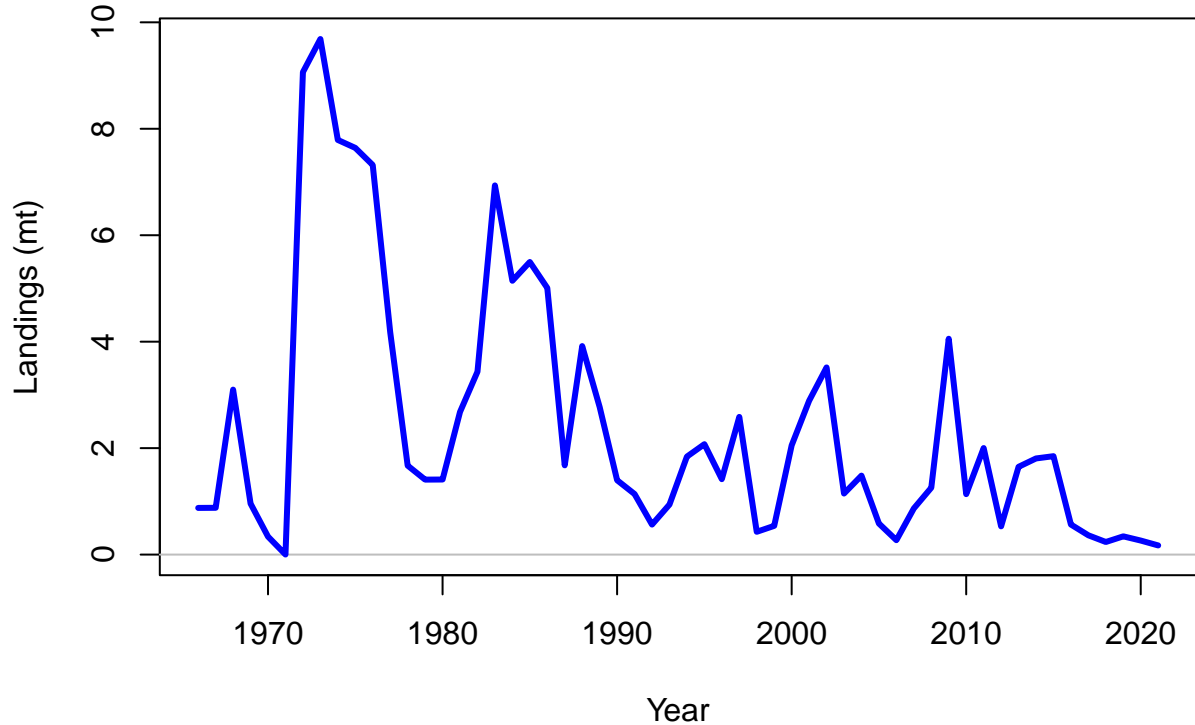


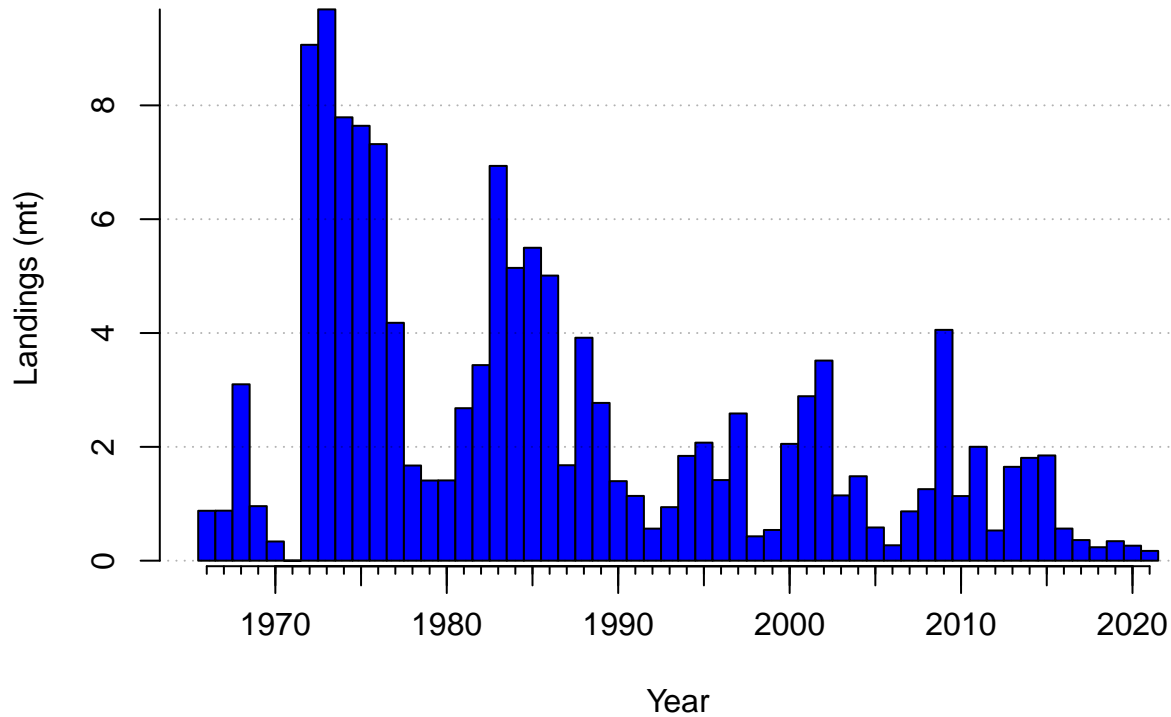




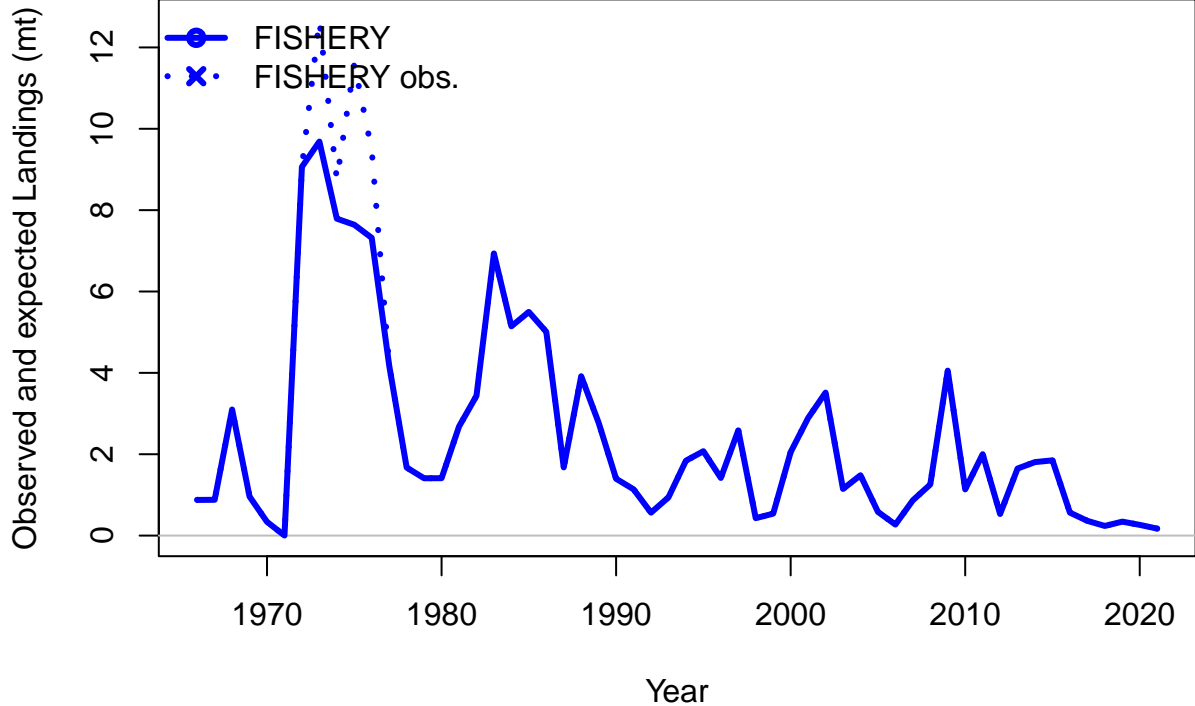
Log recruitment deviation

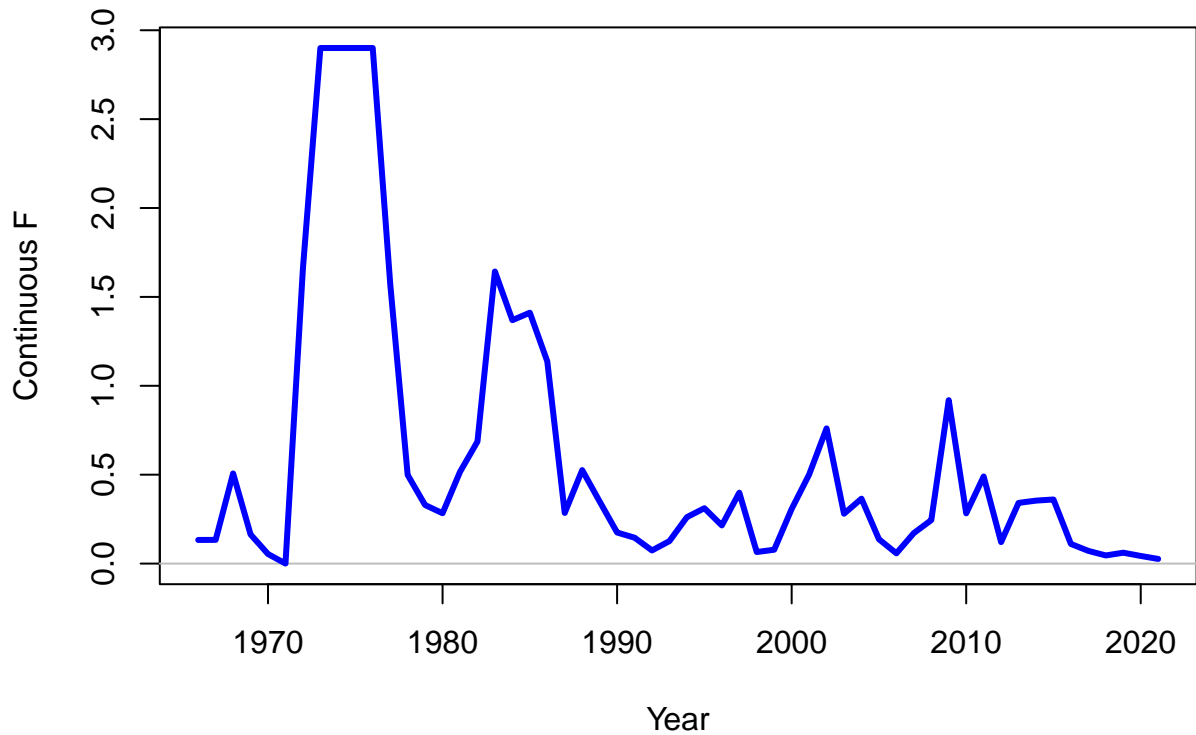




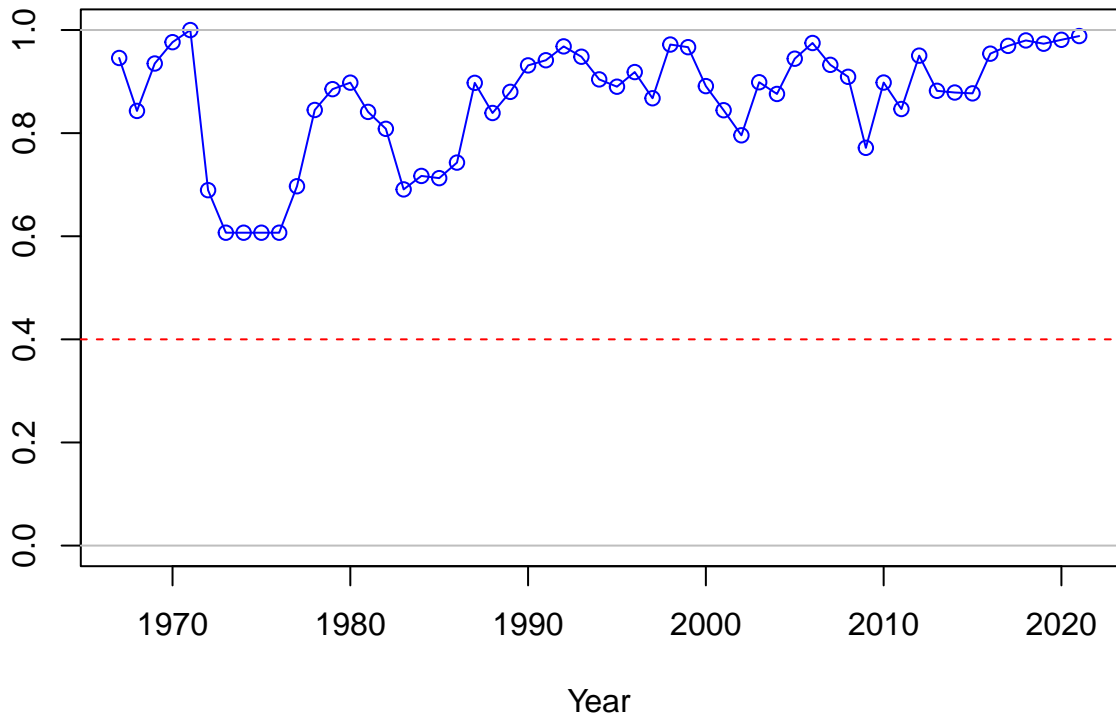




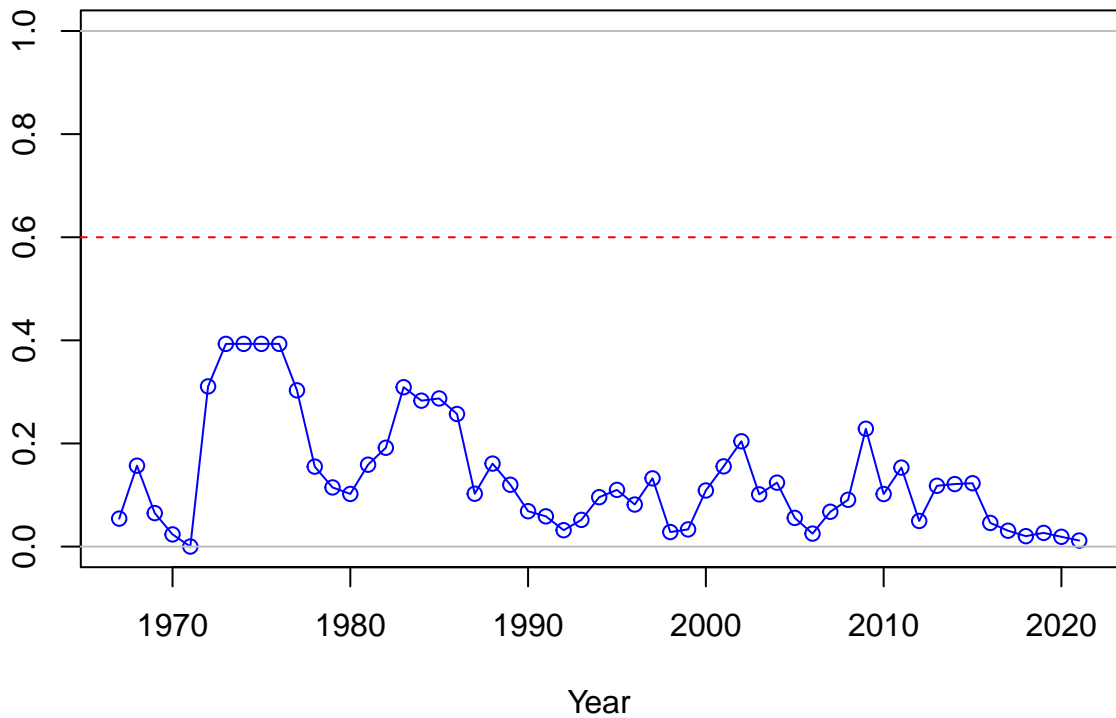




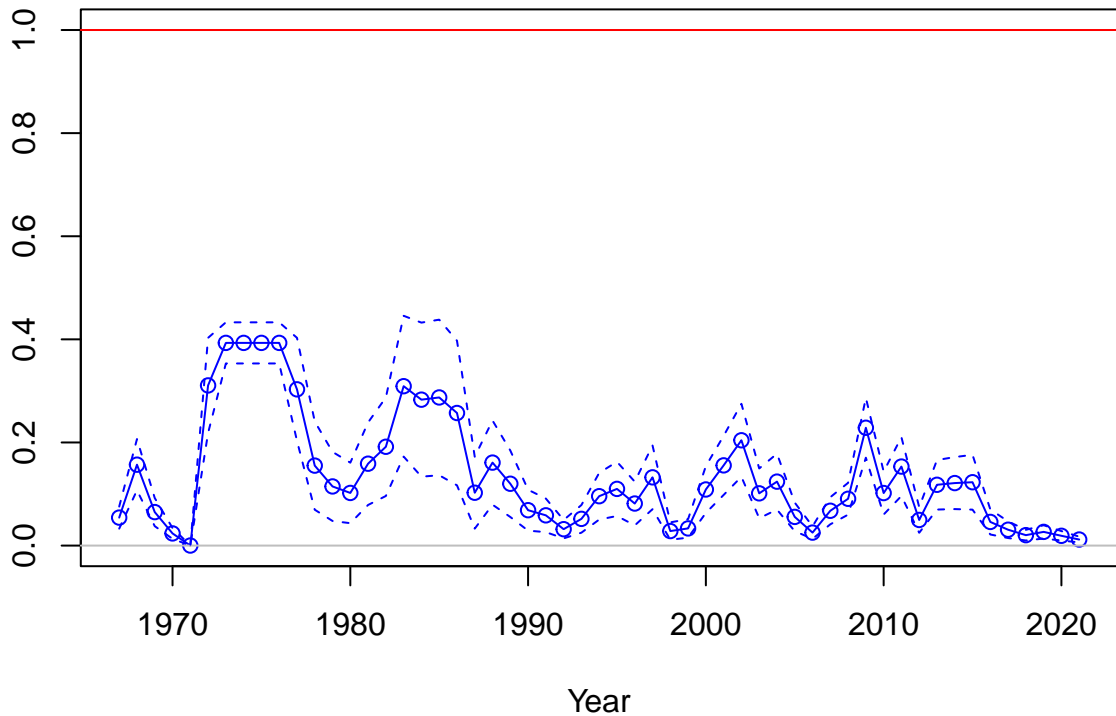
SPR



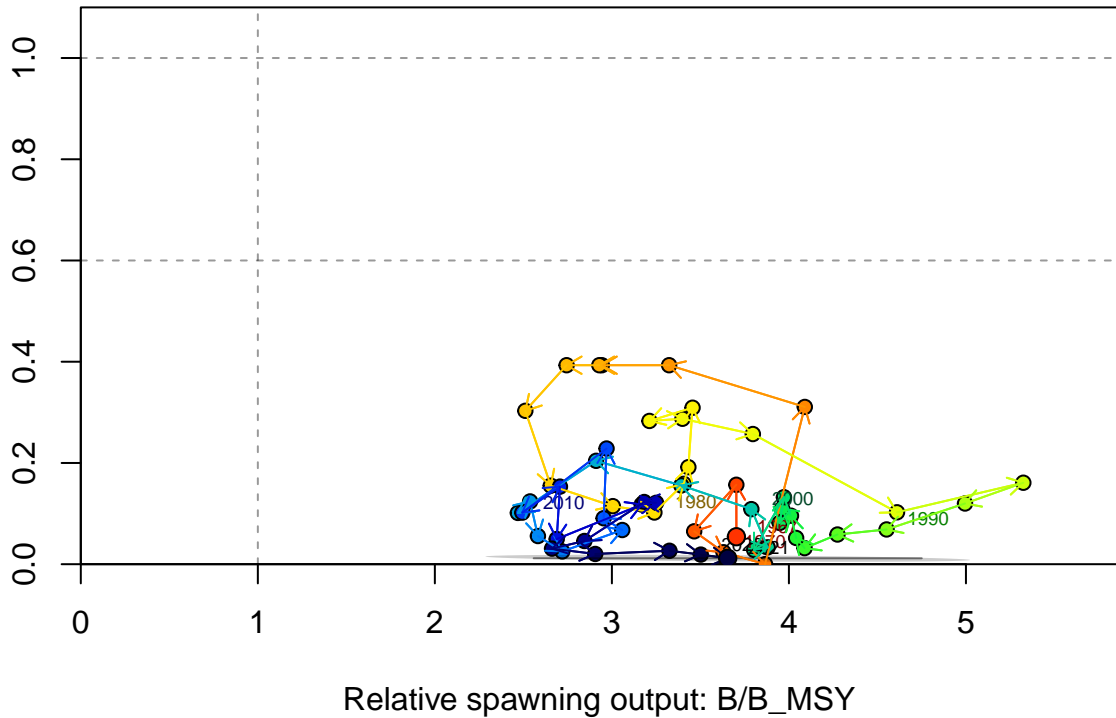
1-SPR



Fishing intensity: 1-SPR



Fishing intensity: 1-SPR



Index

150  
100  
50  
0

1990

1995

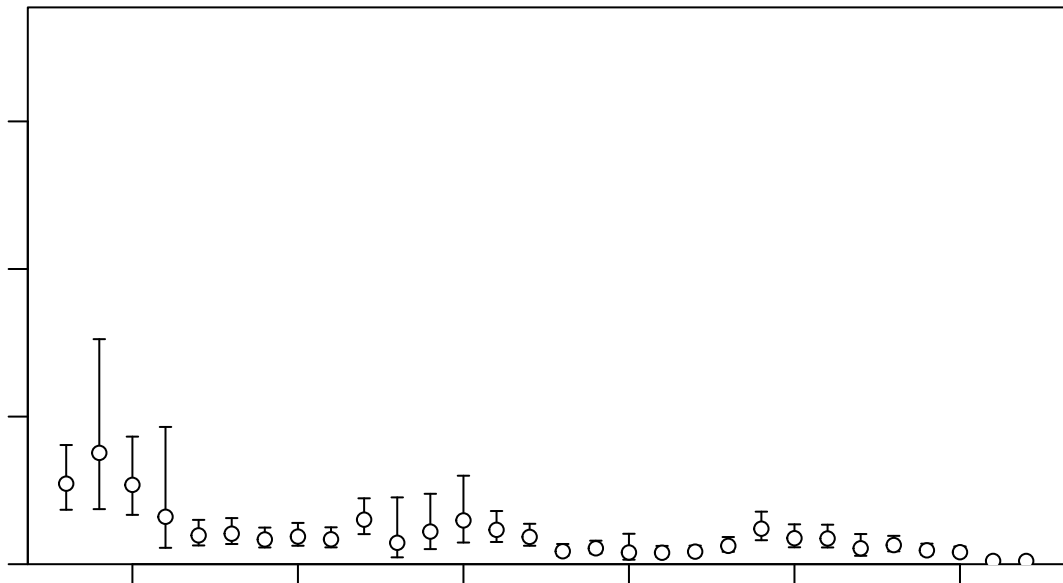
2000

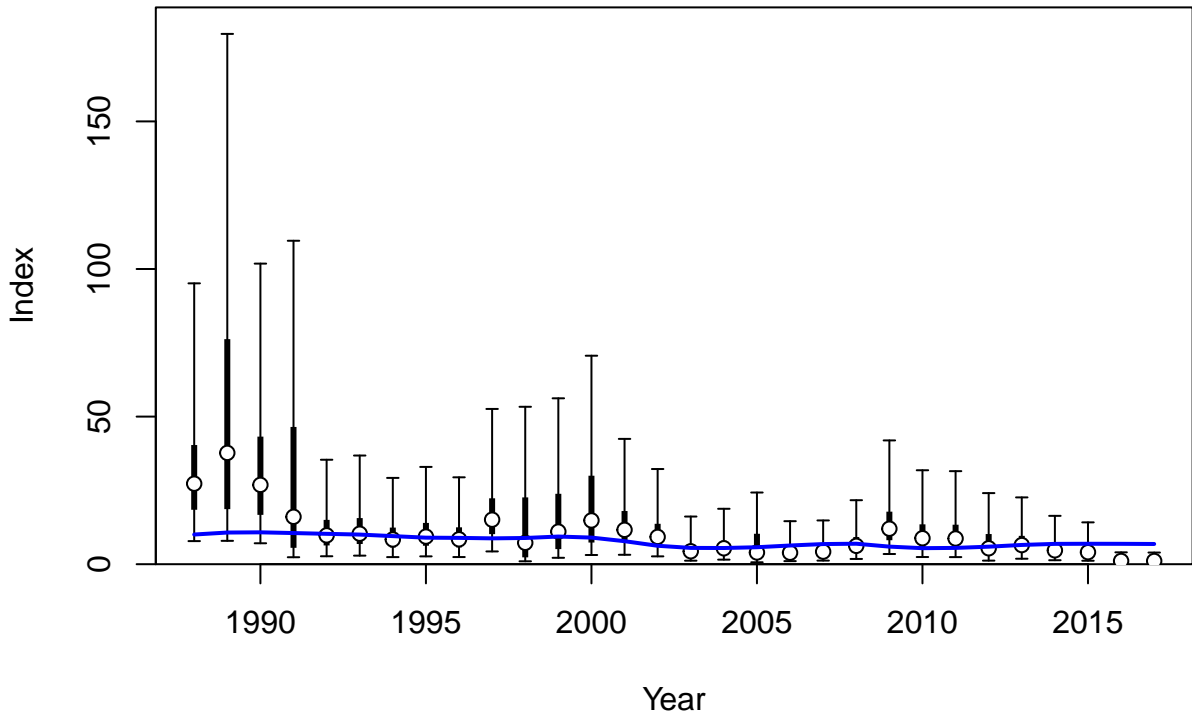
2005

2010

2015

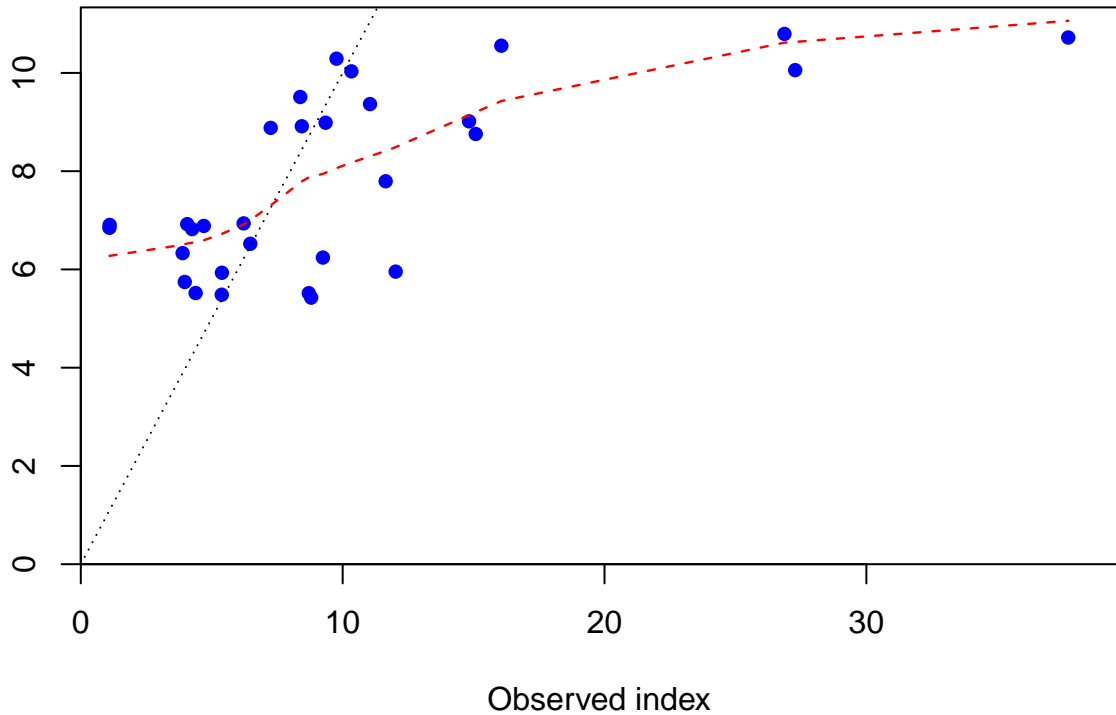
Year







Expected index



Log index

5  
4  
3  
2  
1  
0  
-1

1990

1995

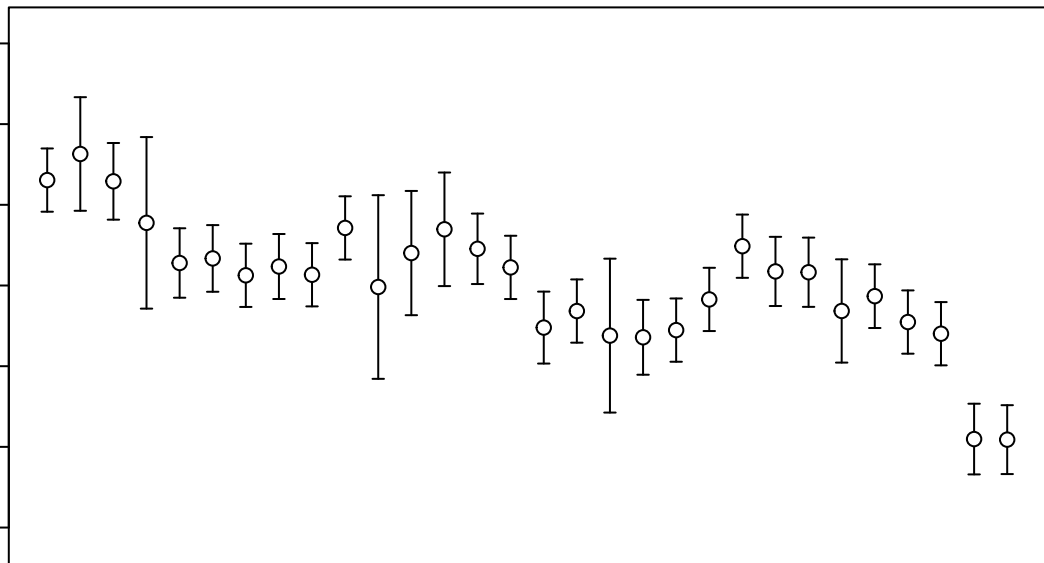
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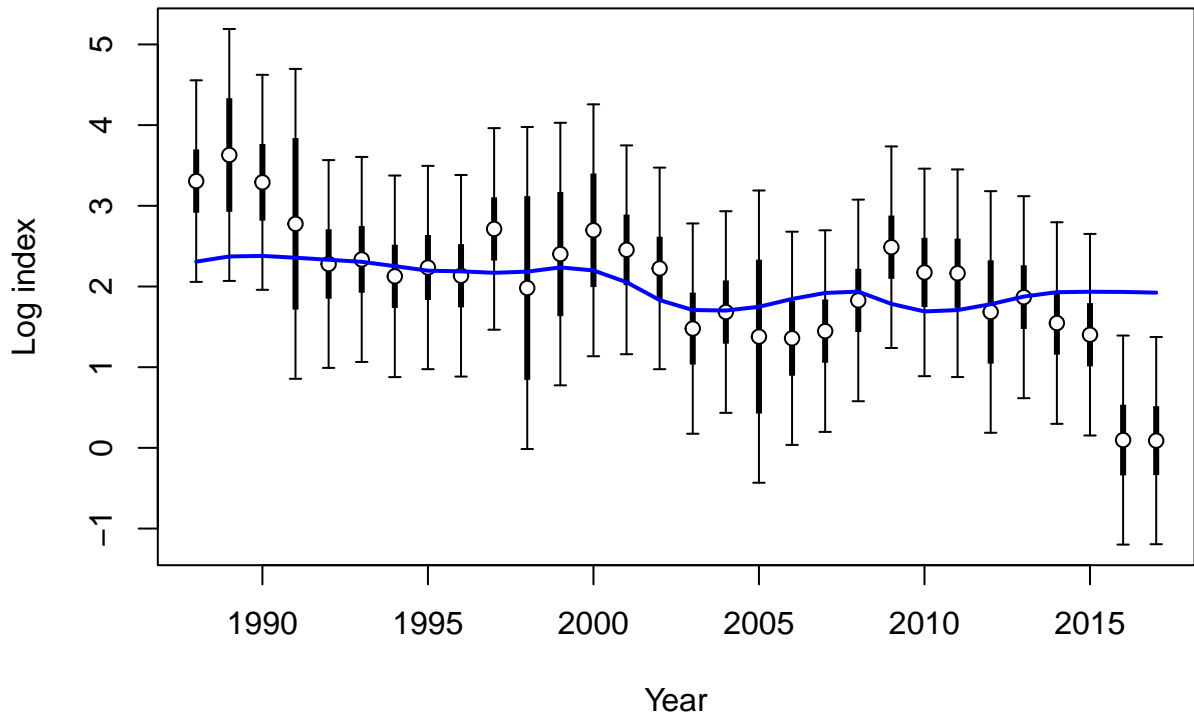
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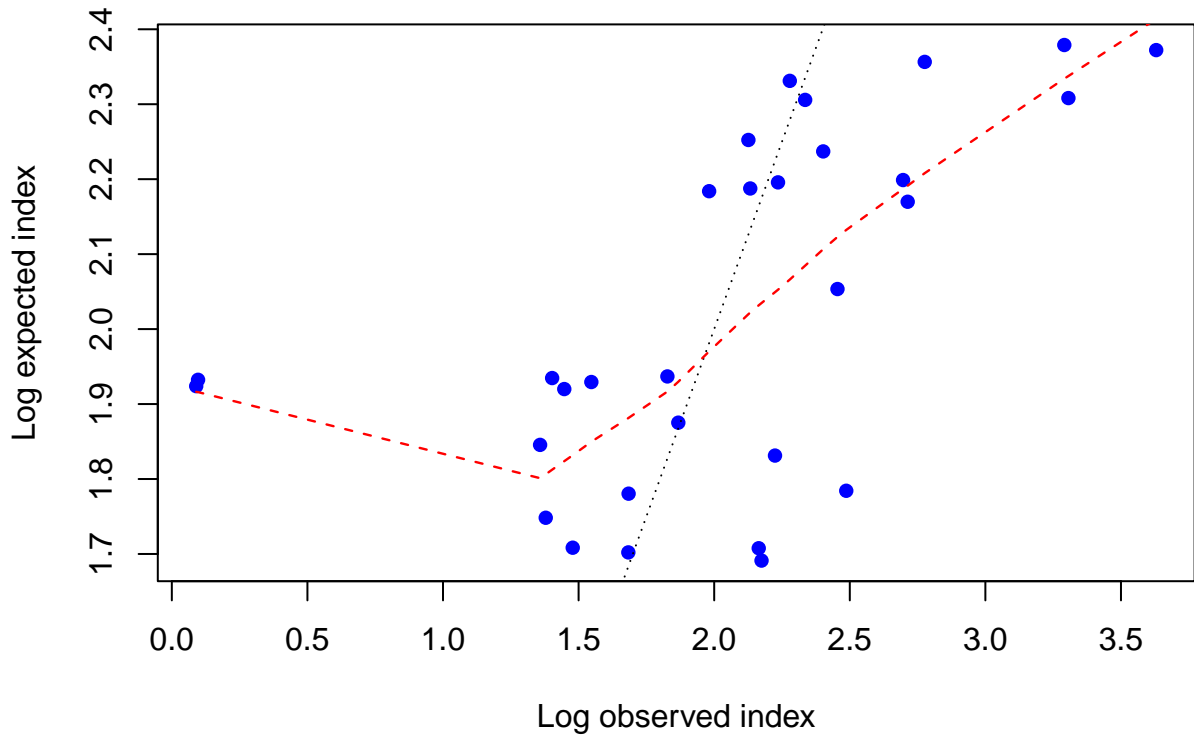
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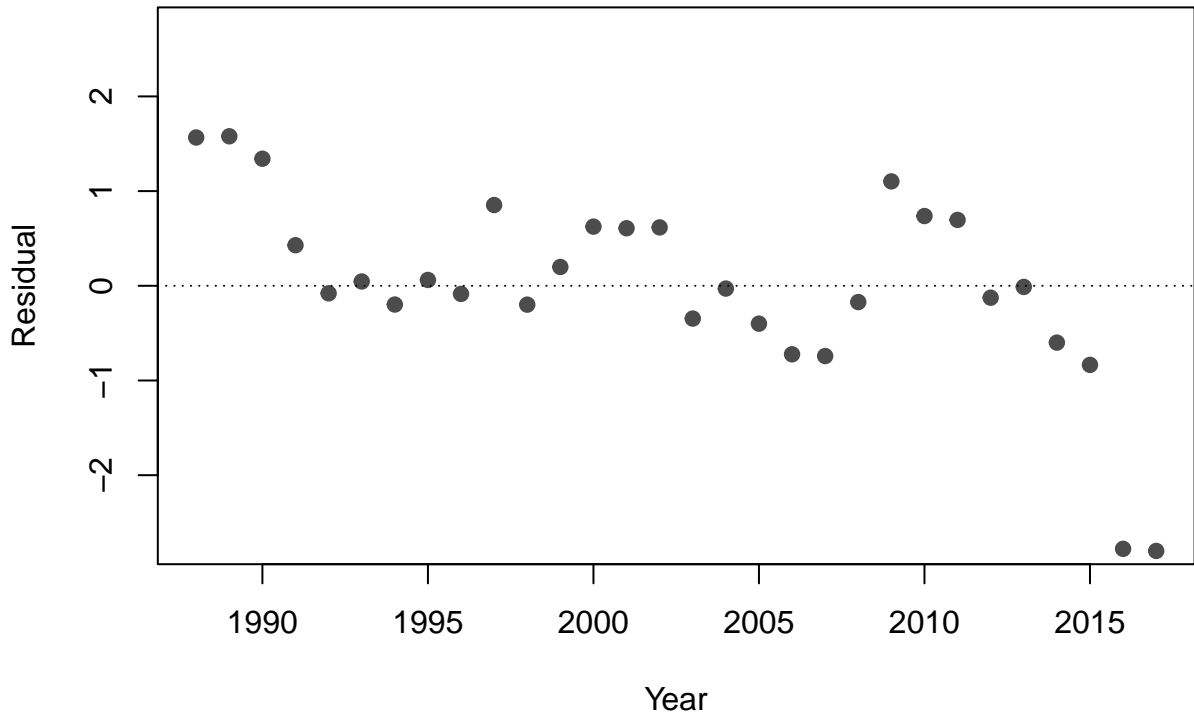
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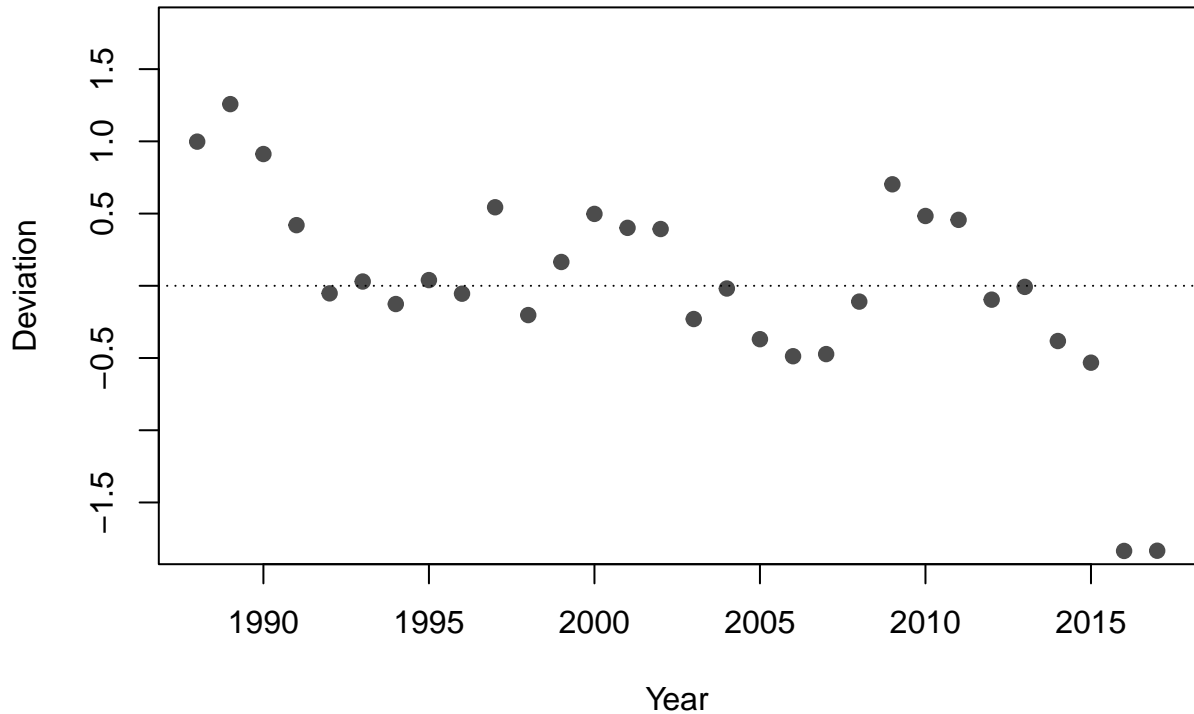
Year

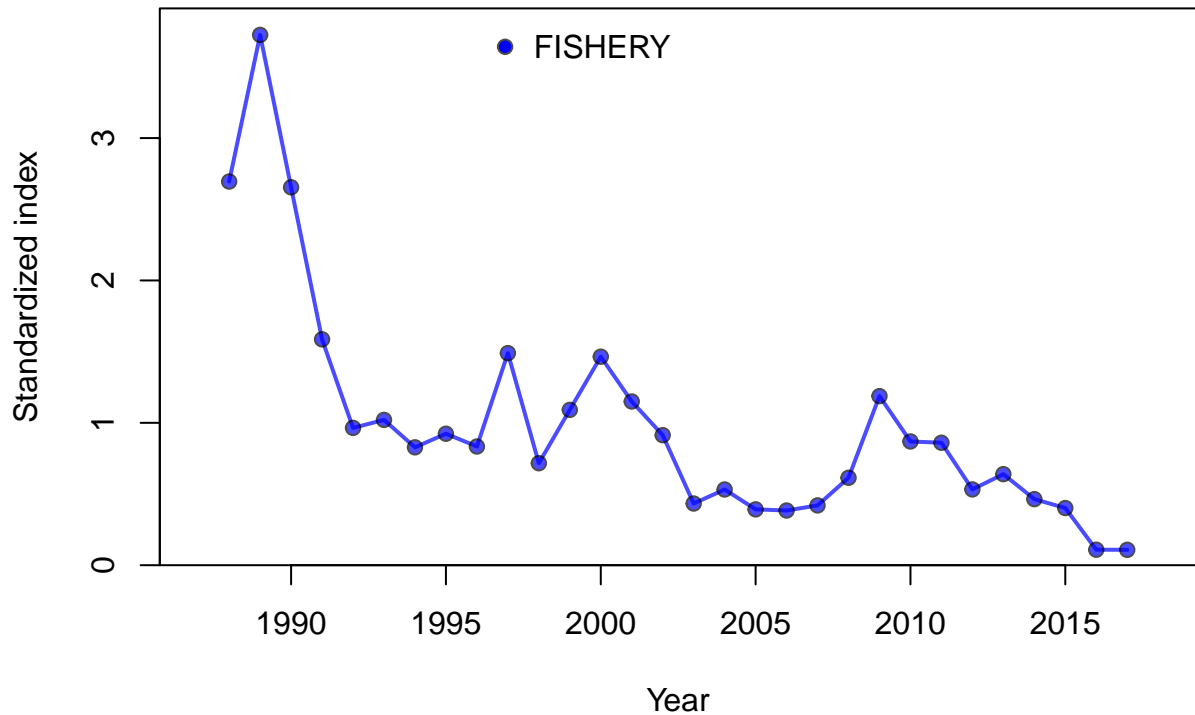




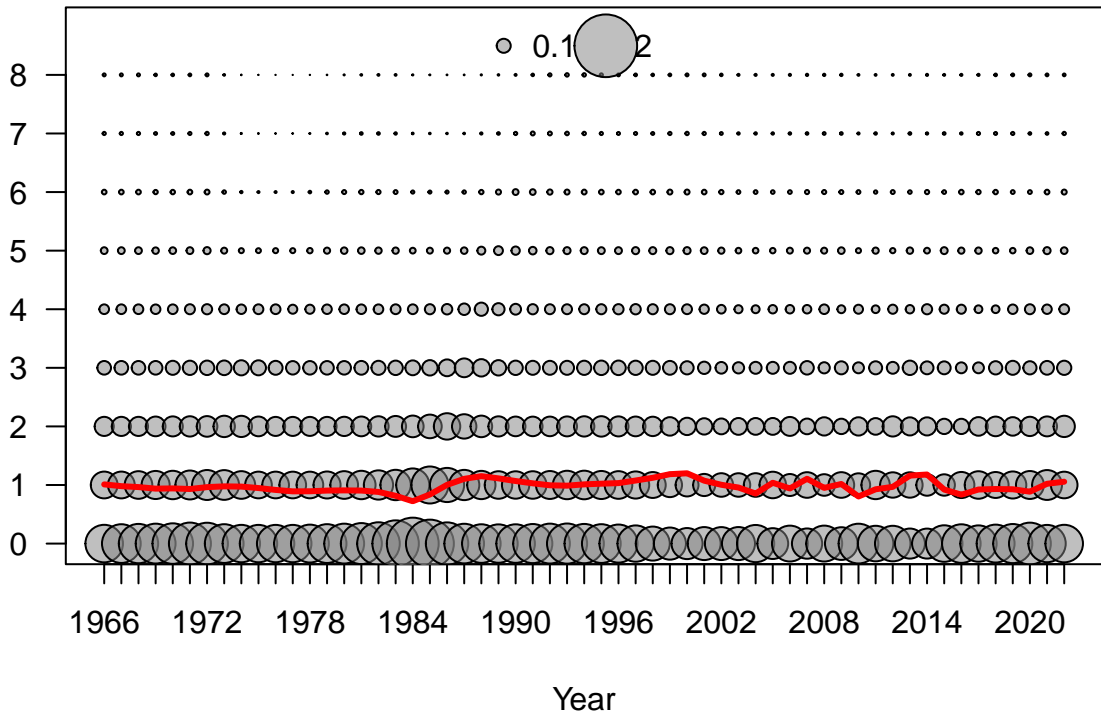






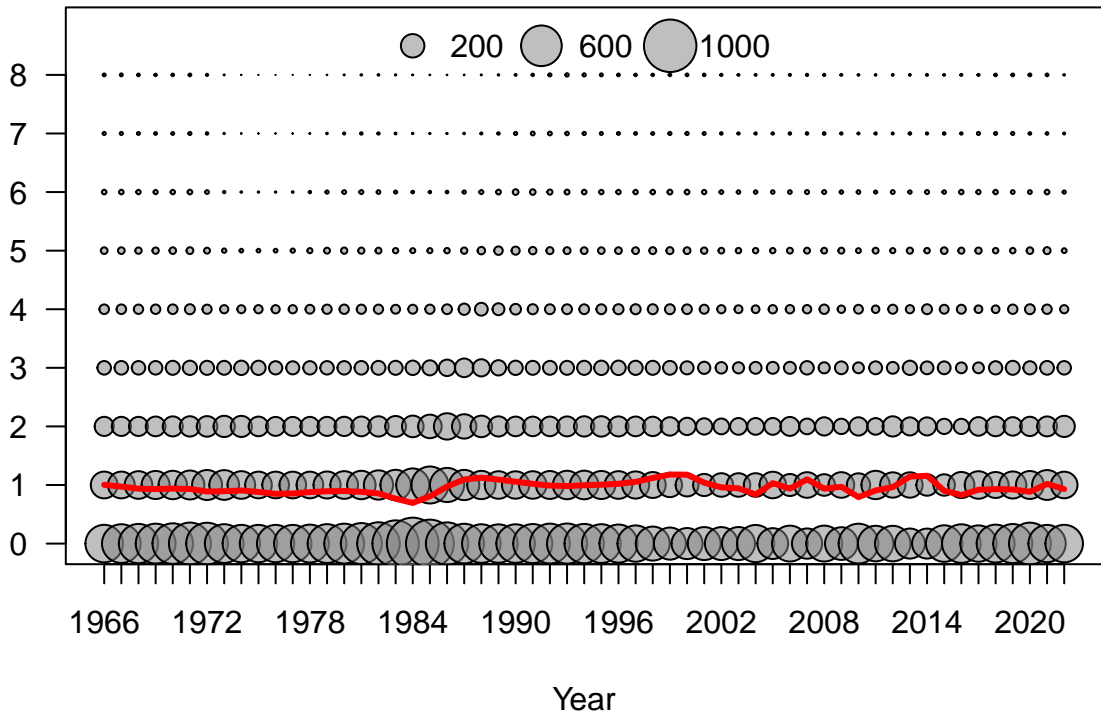


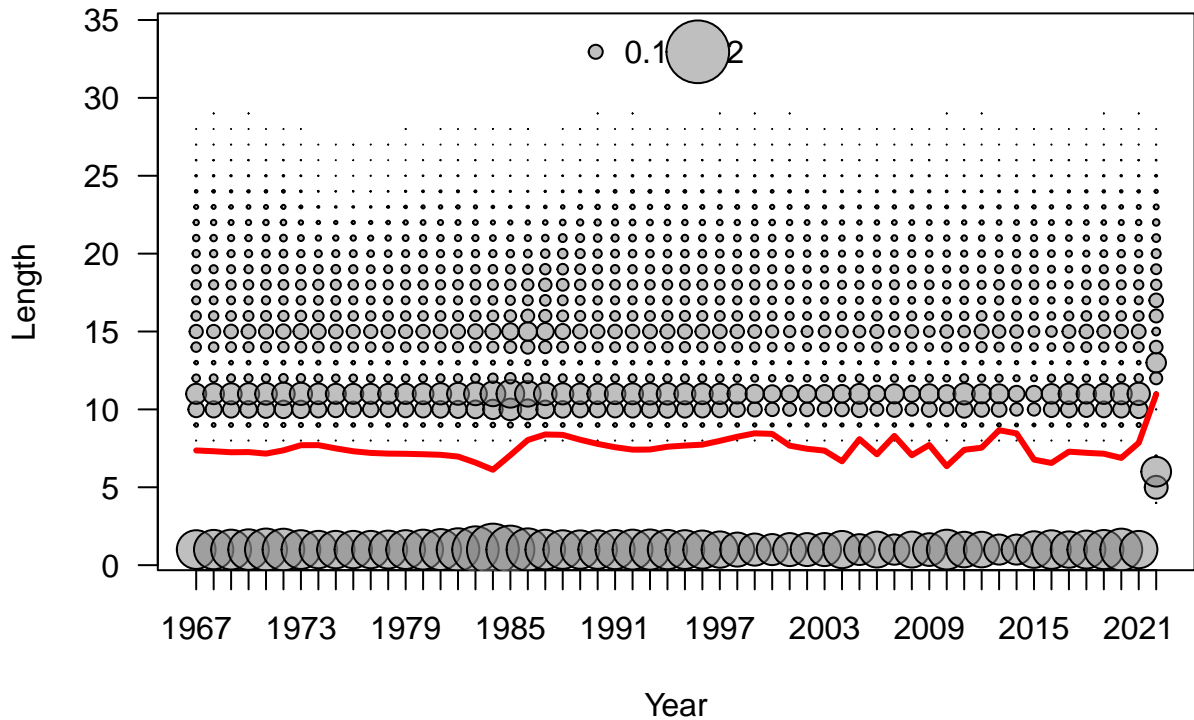
Age

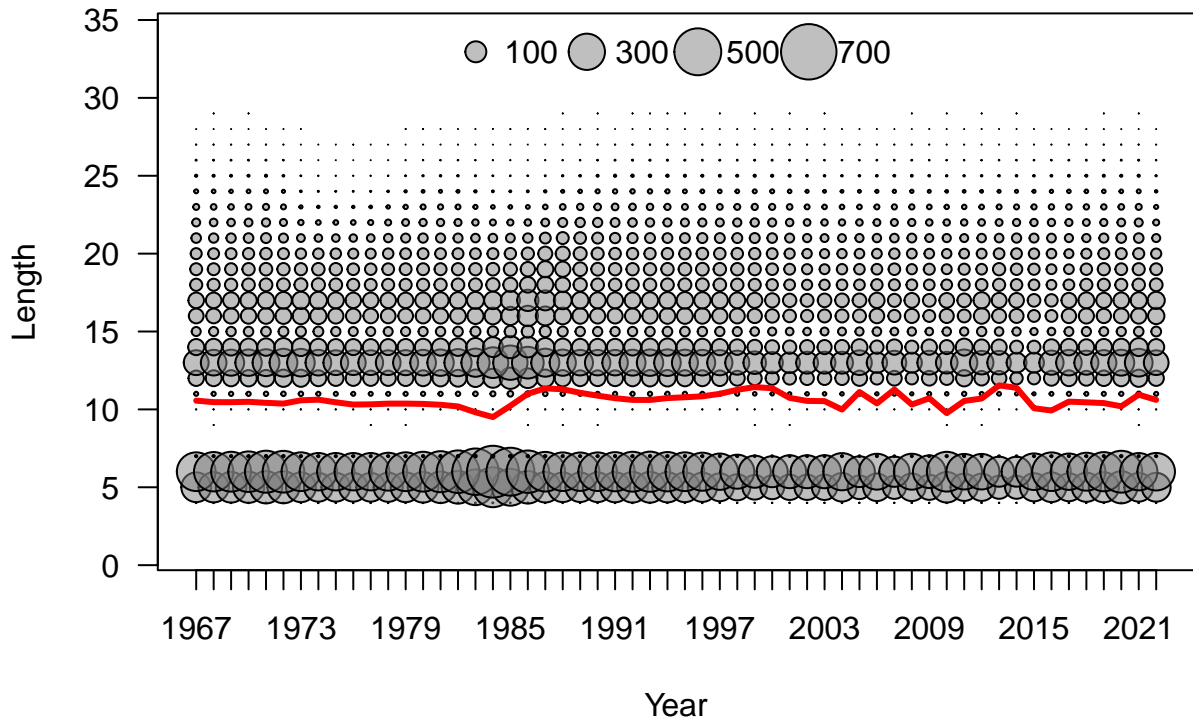


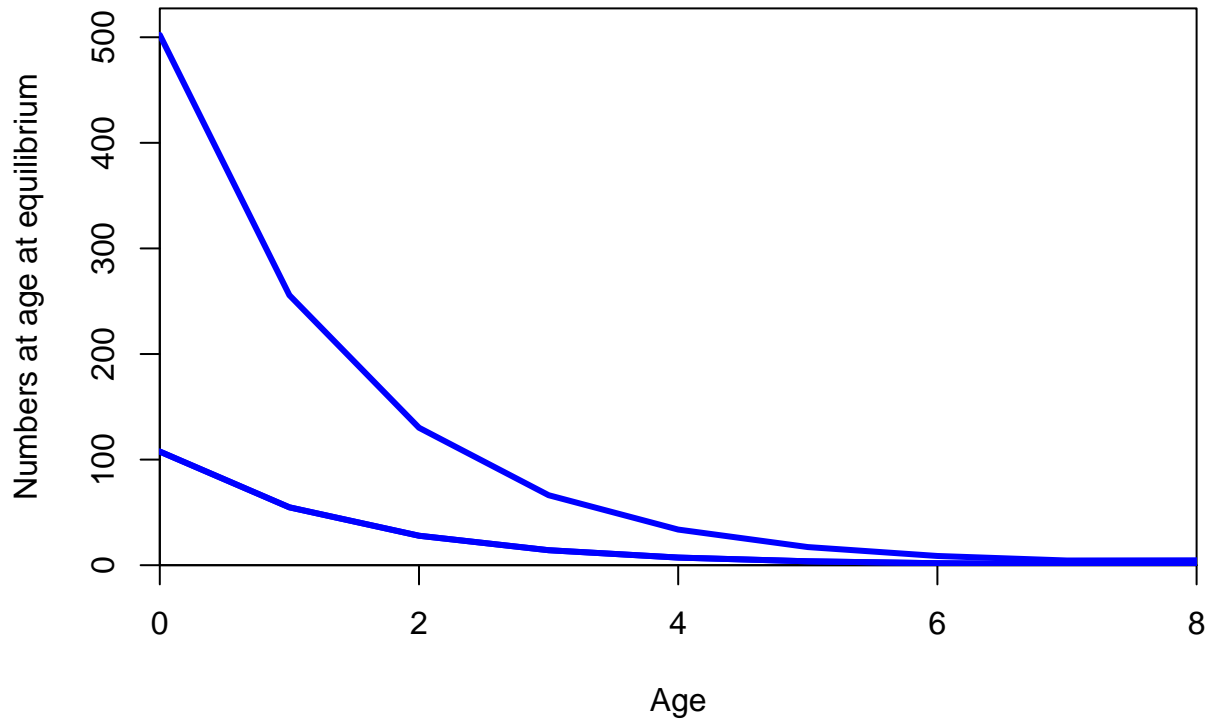


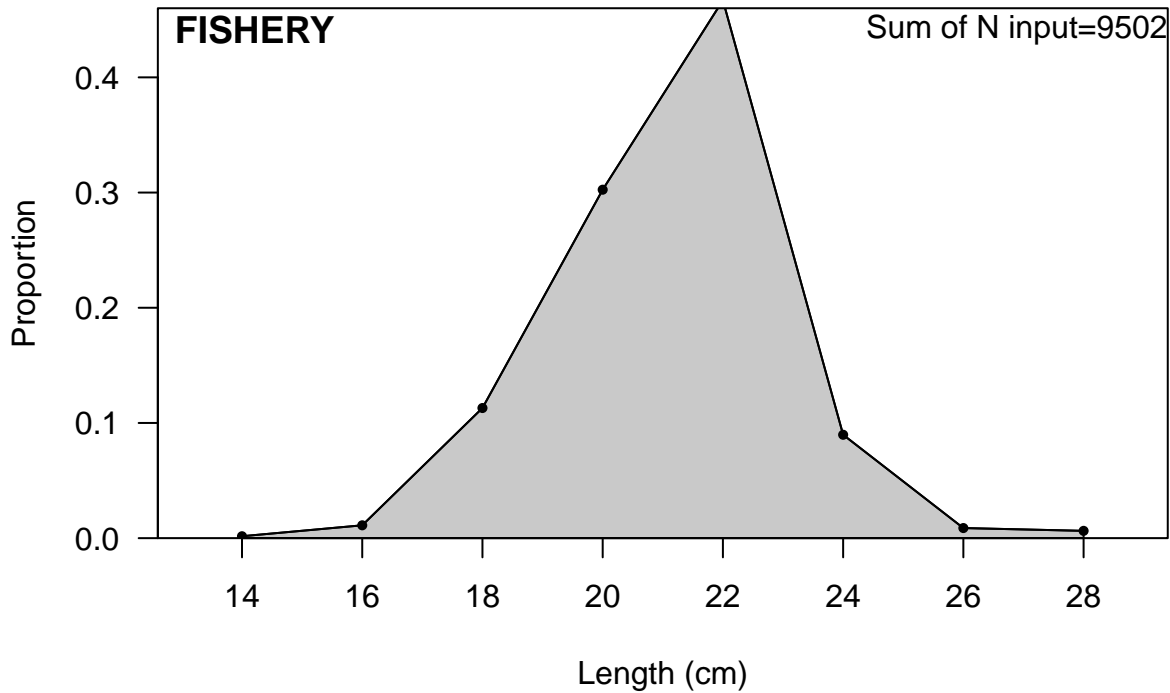
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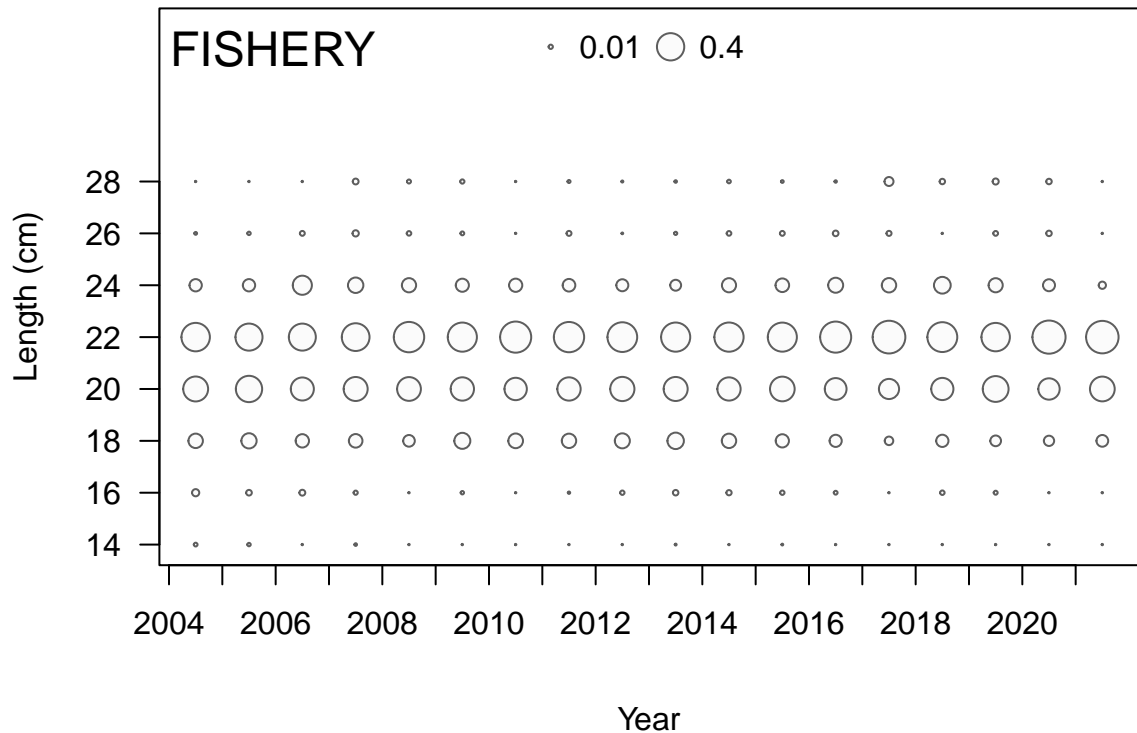




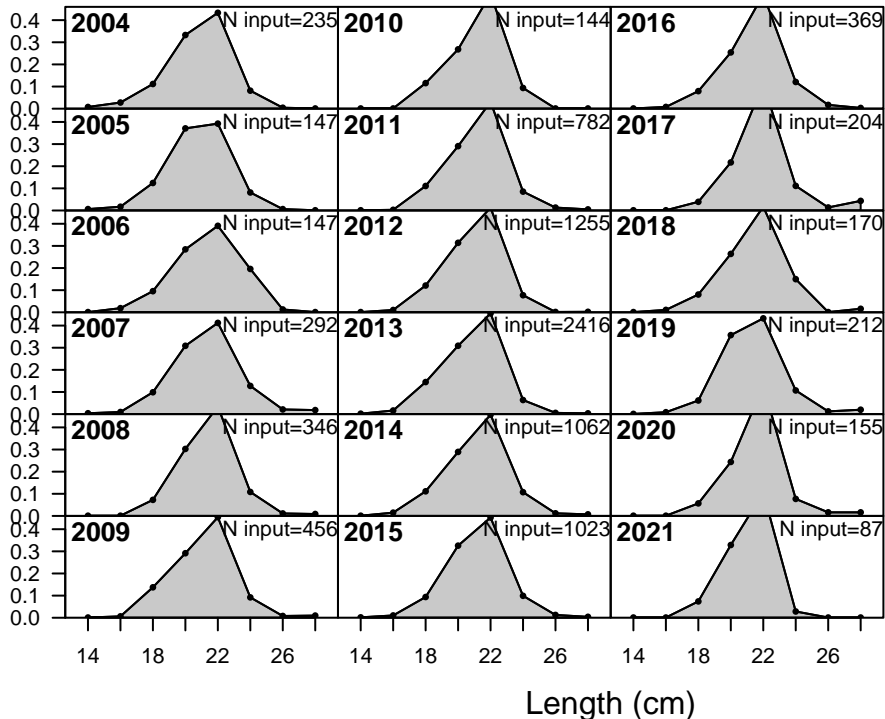


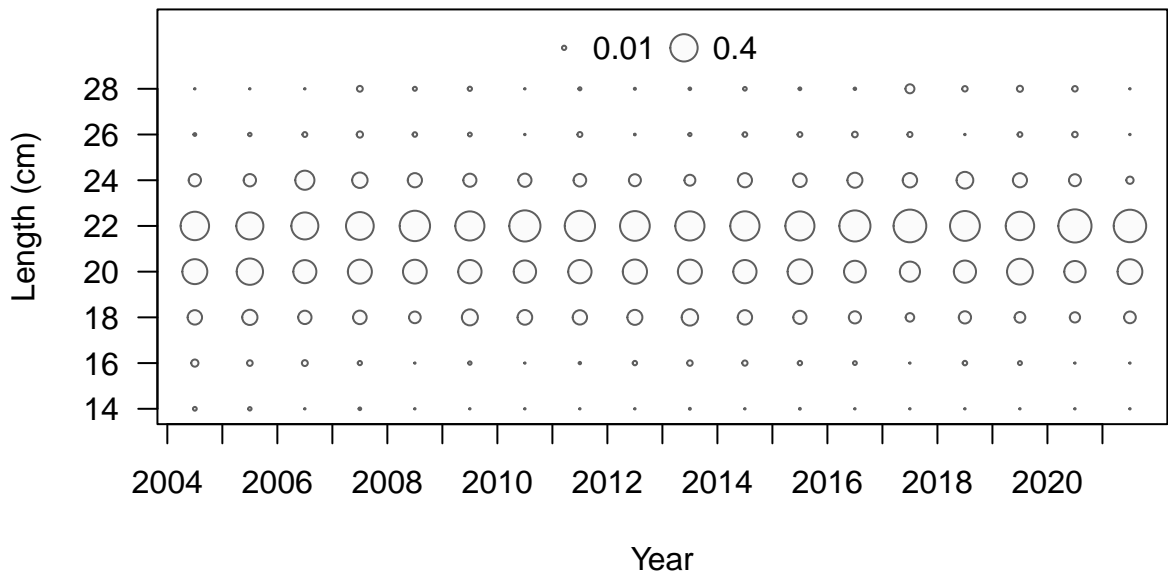






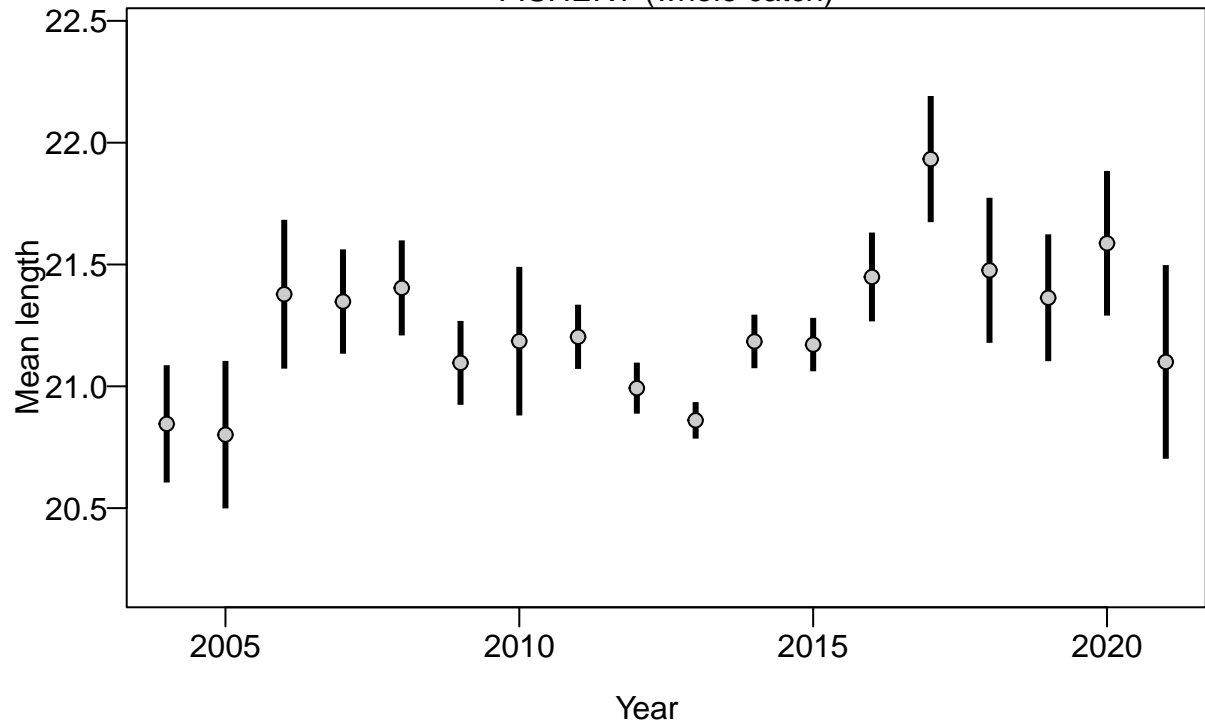
Proportion

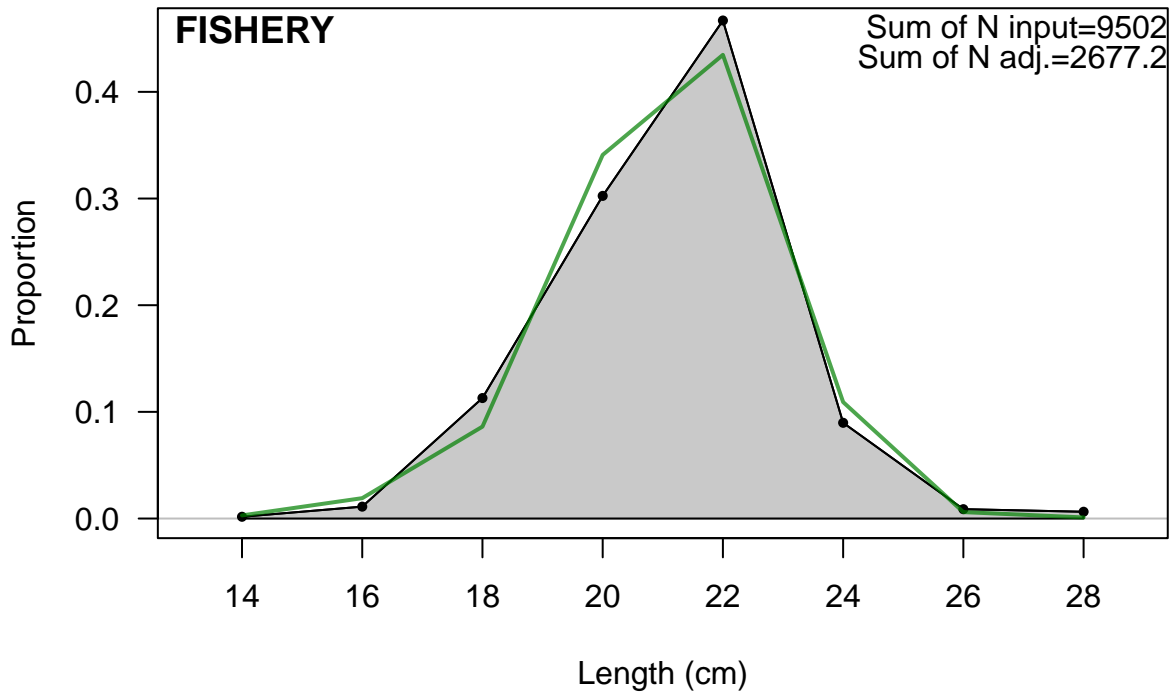


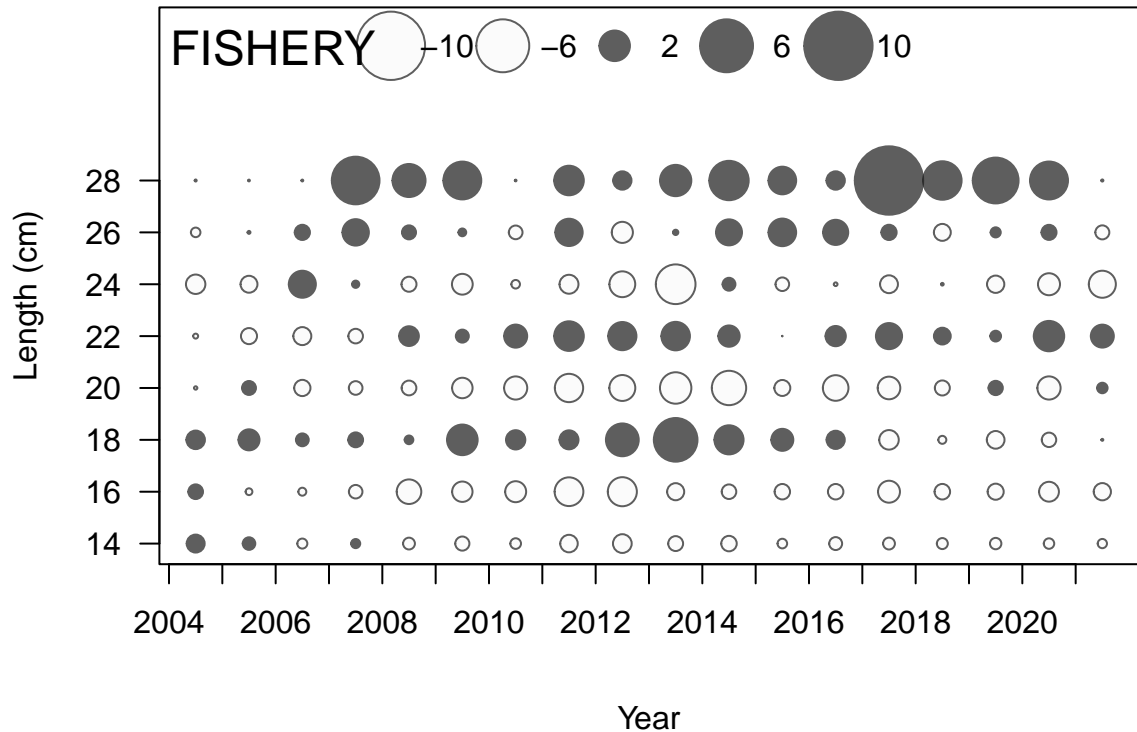




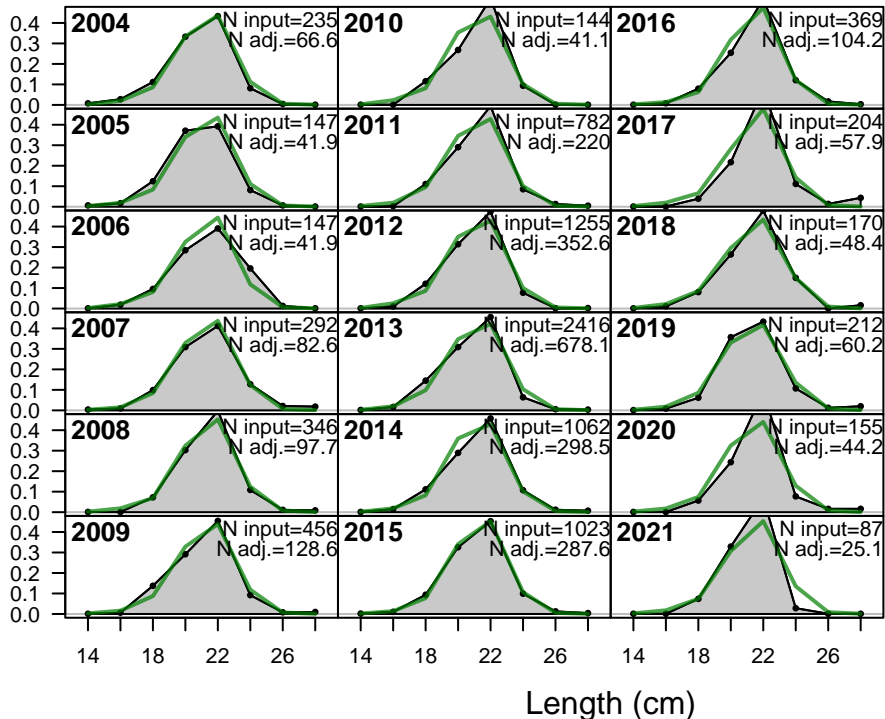
FISHERY (whole catch)

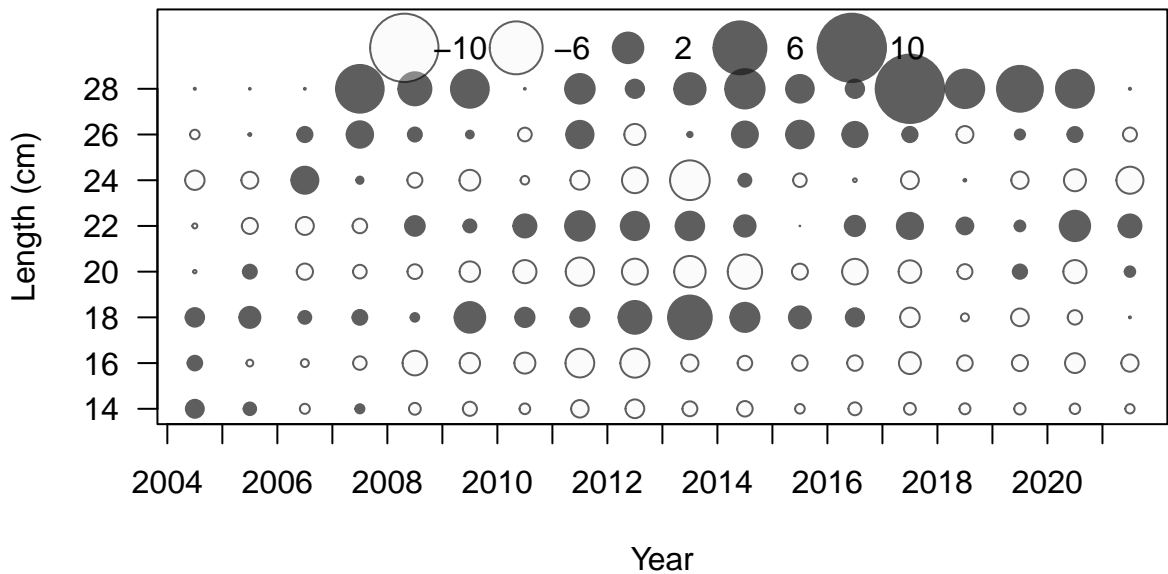




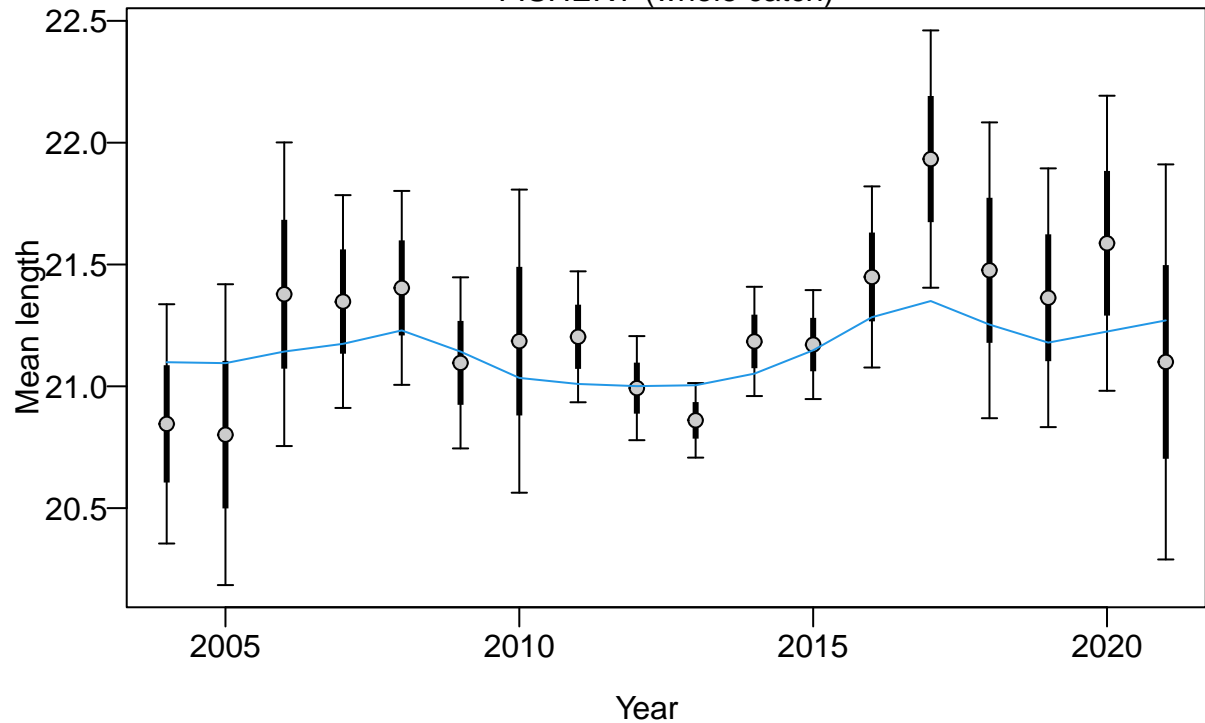


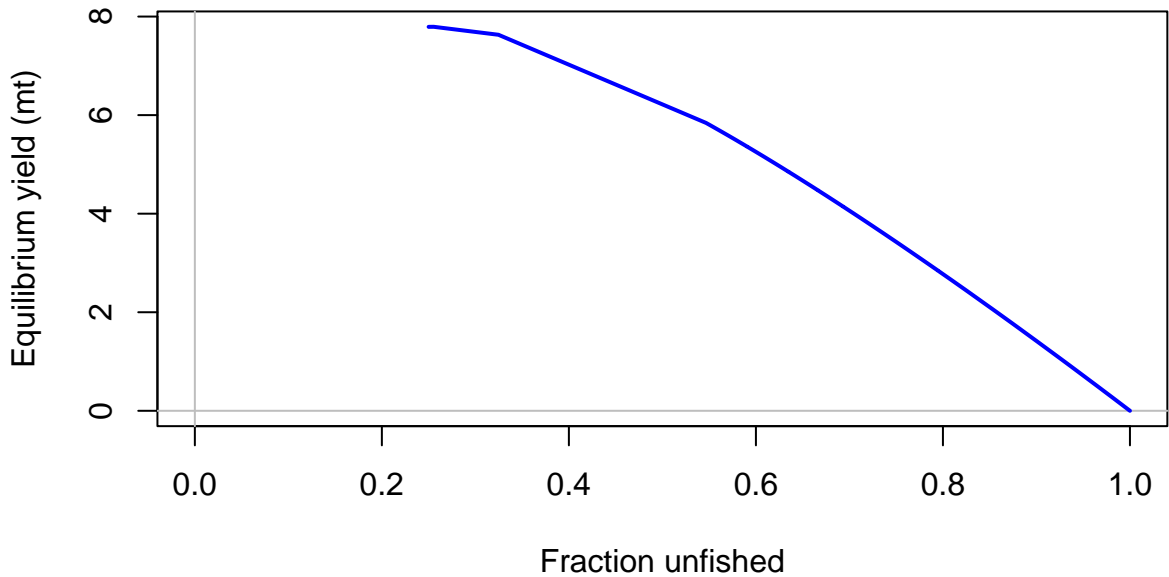
Proportion

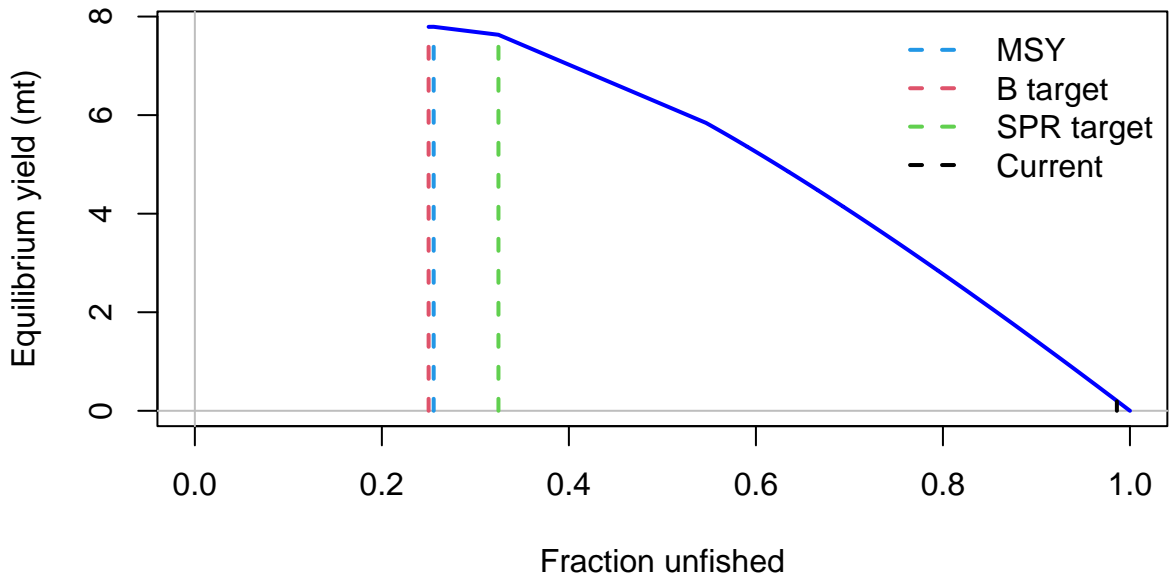




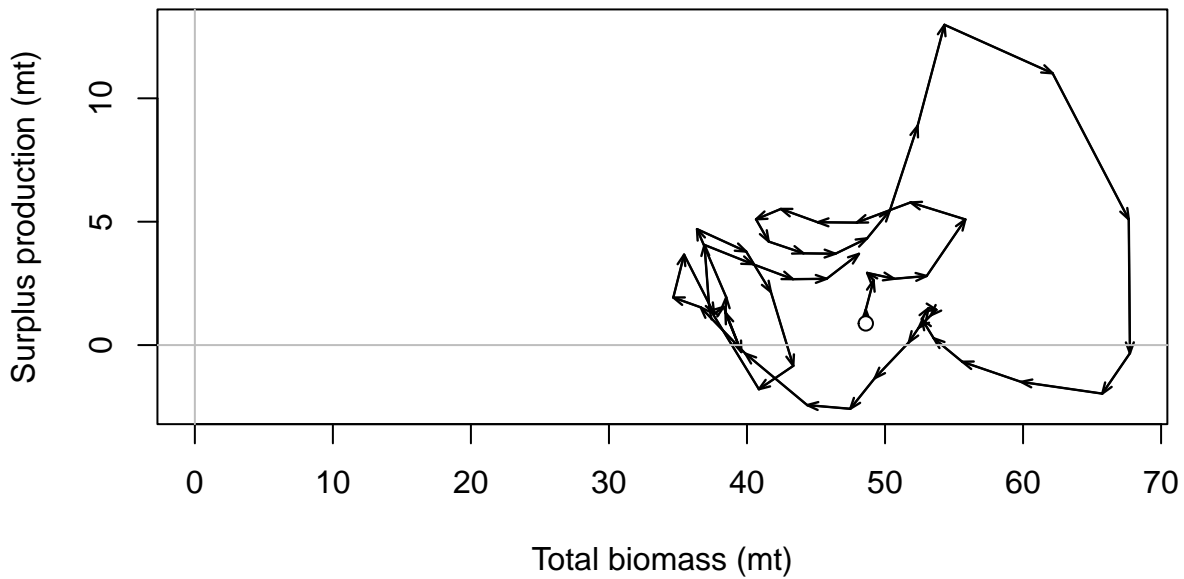
FISHERY (whole catch)

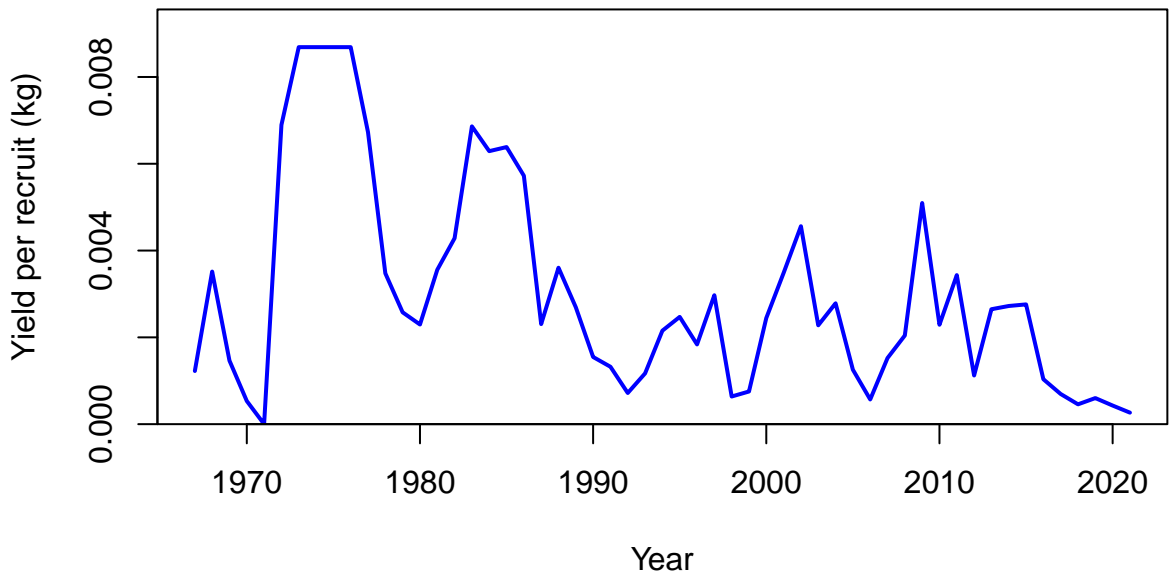


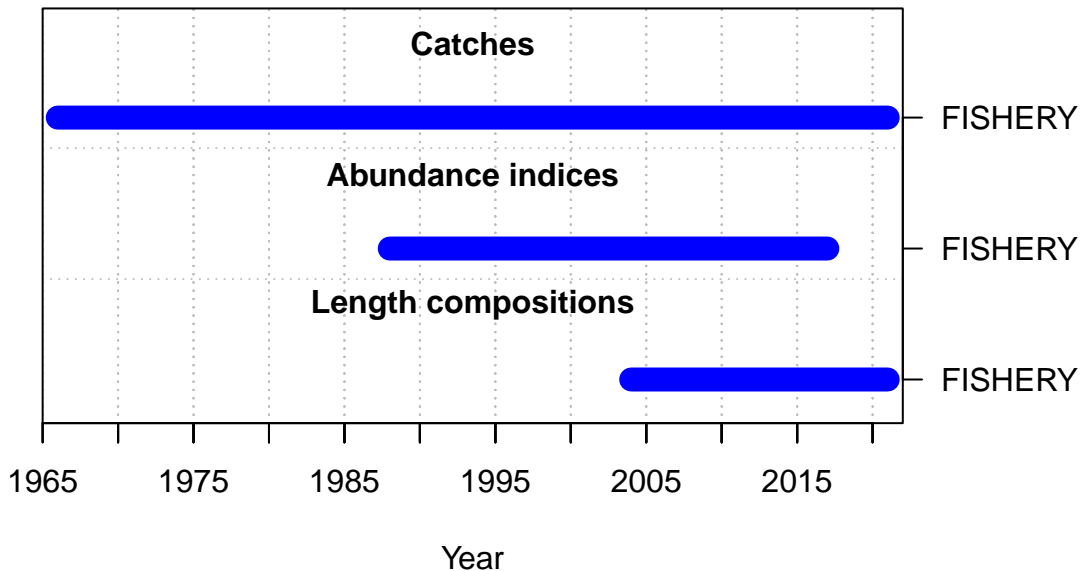


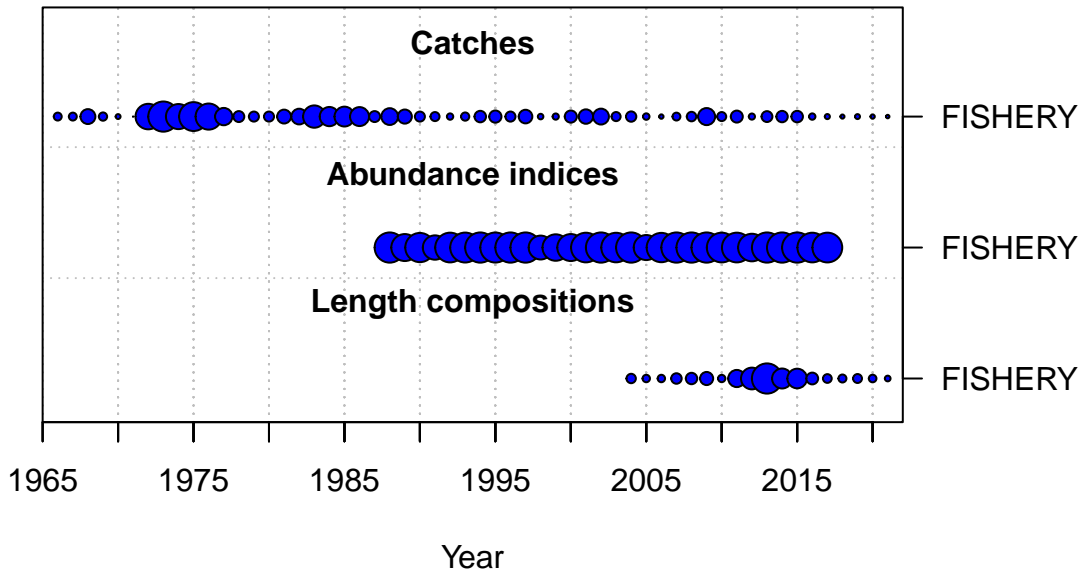




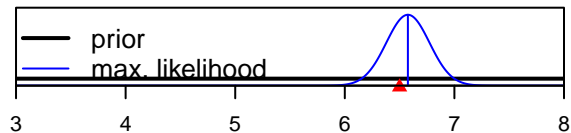




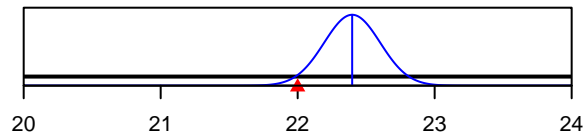




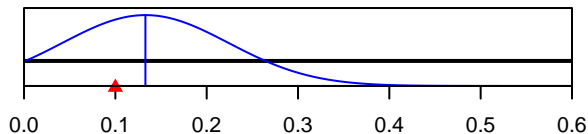
SR\_LN(R0)



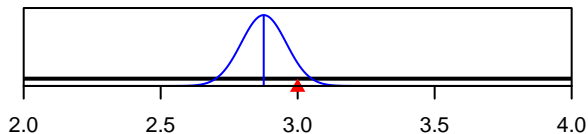
Size\_inflection\_FISHERY(1)



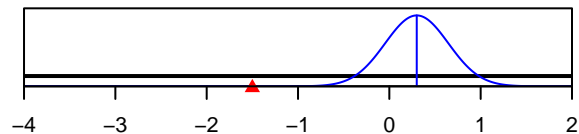
InitF\_seas\_1\_flt\_1FISHERY



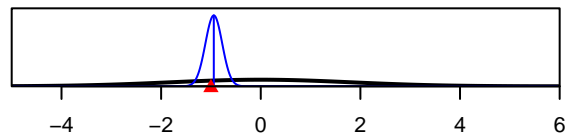
Size\_95%width\_FISHERY(1)



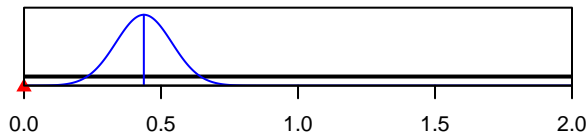
LnQ\_base\_FISHERY(1)



ln(DM\_theta)\_1



Q\_extraSD\_FISHERY(1)



Parameter value