

Plots created using the 'r4ss' package in R  
Stock Synthesis version: 3.30.19.0  
StartTime: Sat Oct 15 11:23:43 2022  
Data\_File: data.ss  
Control\_File: control.ss

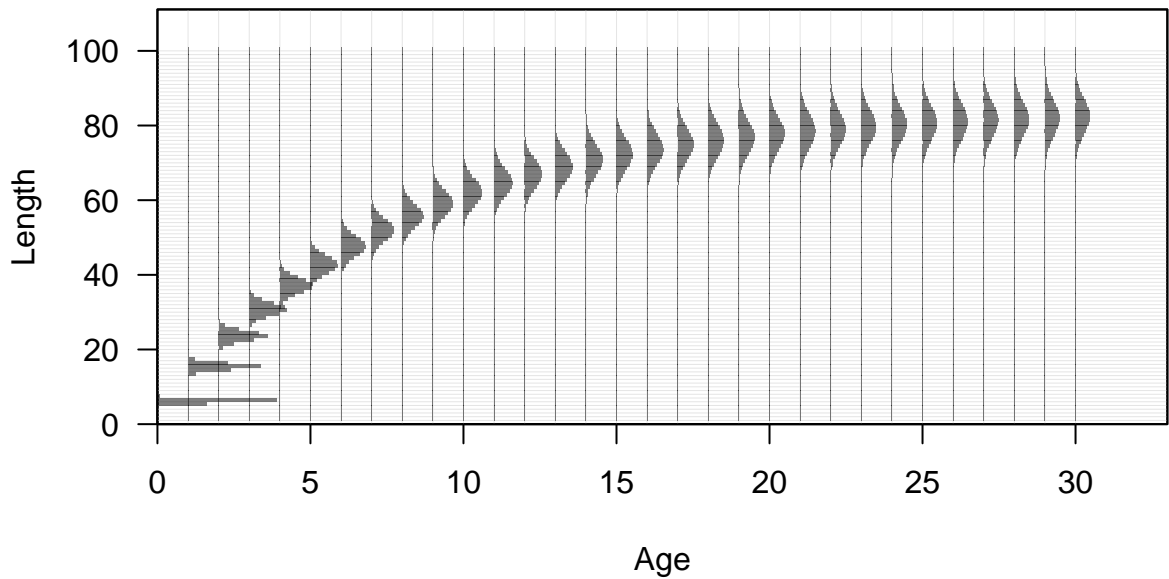
Length (cm, beginning of the year)







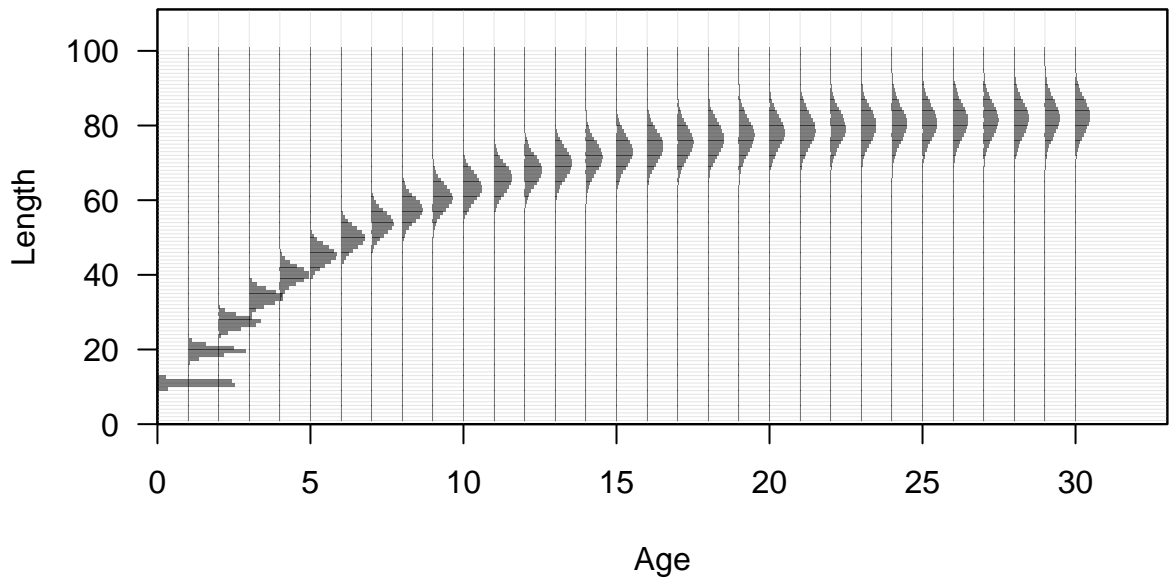




















Fecundity



Fecundity

20

15

10

5

0

0

20

40

60

80

100

Female length (cm)



Spawning output

20  
15  
10  
5  
0

0

20

40

60

80

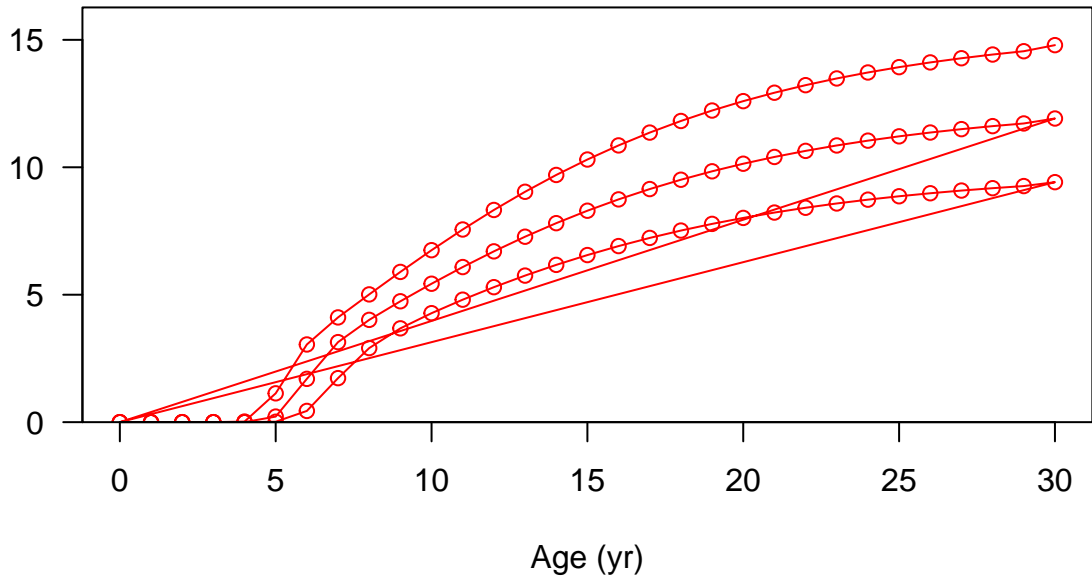
100

Length (cm)





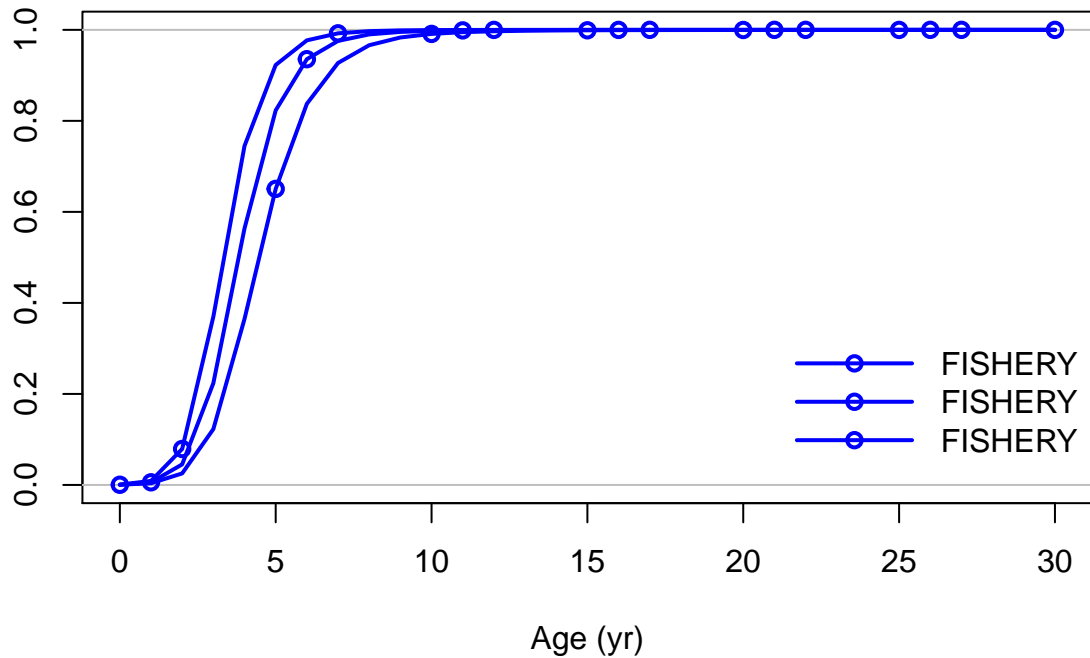
Spawning output



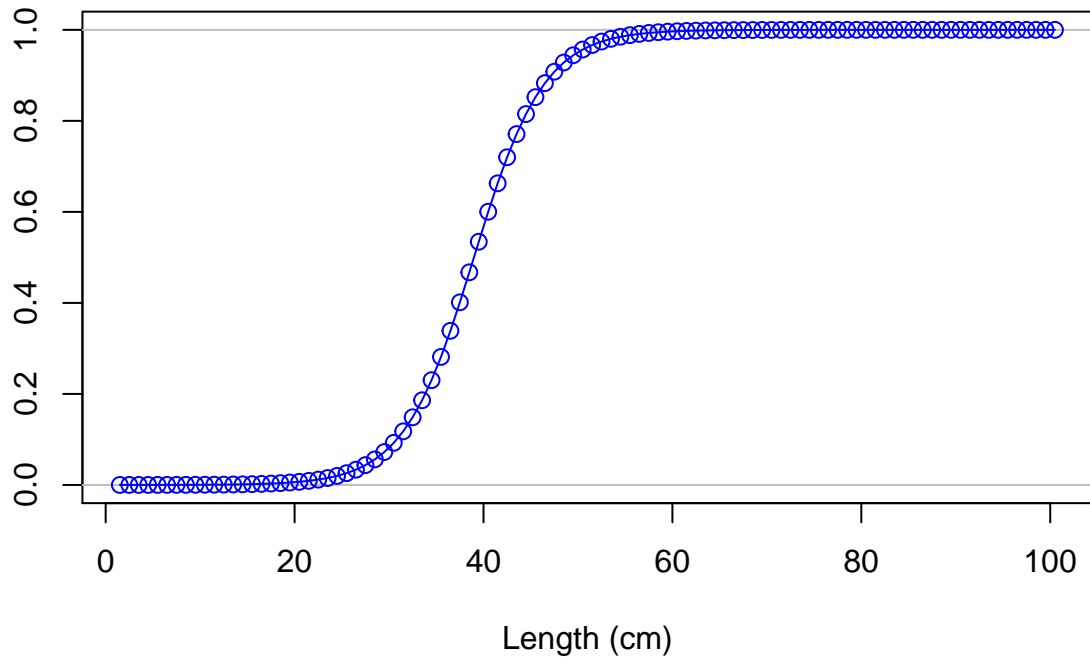
Selectivity

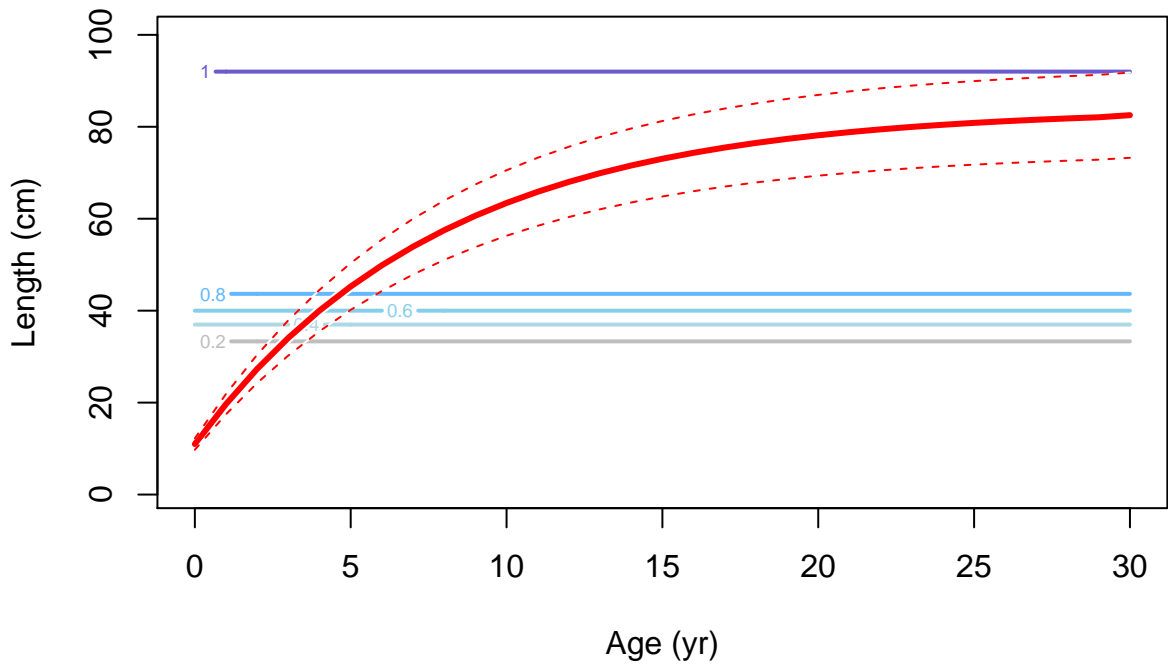


Selectivity



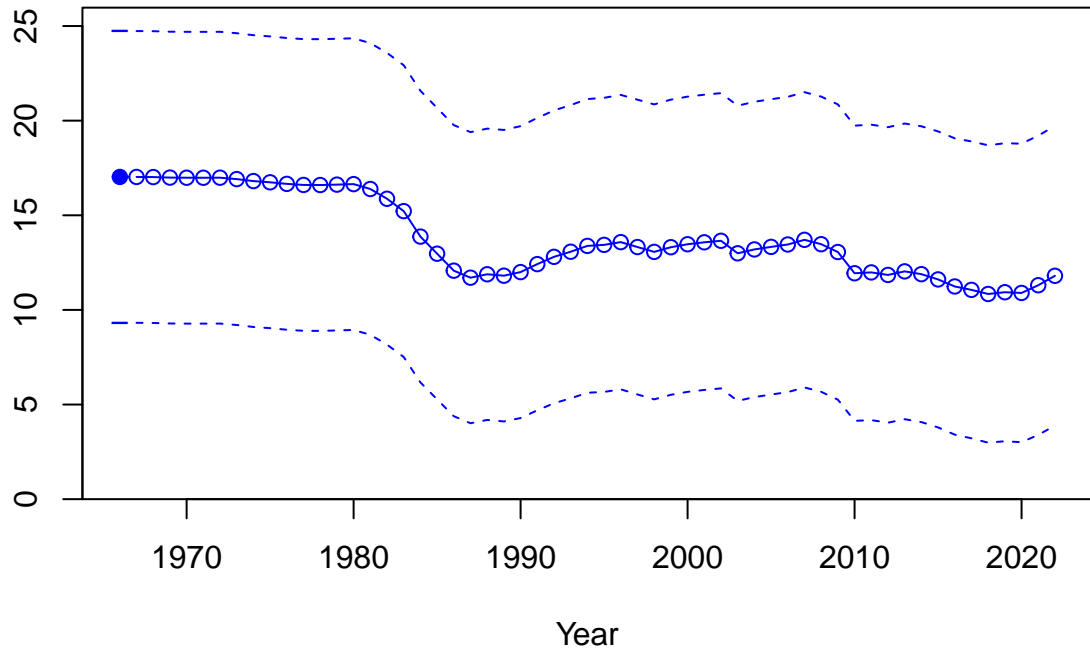
Selectivity







Spawning biomass (mt)



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



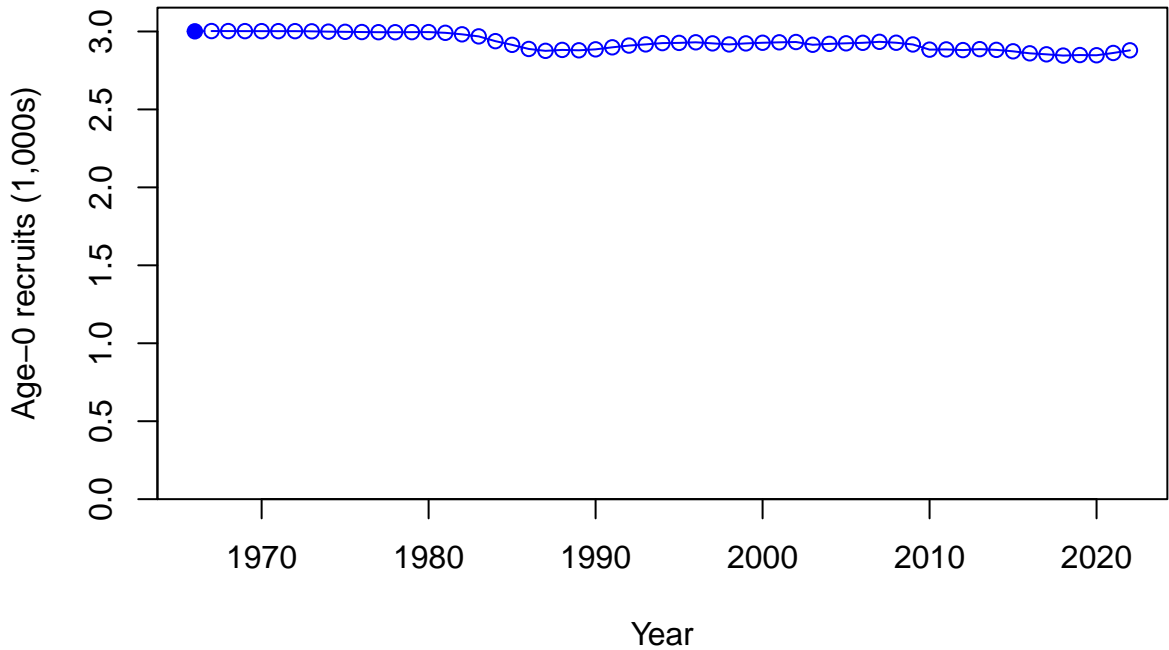


Relative spawning biomass:  $B/B_{MSY}$

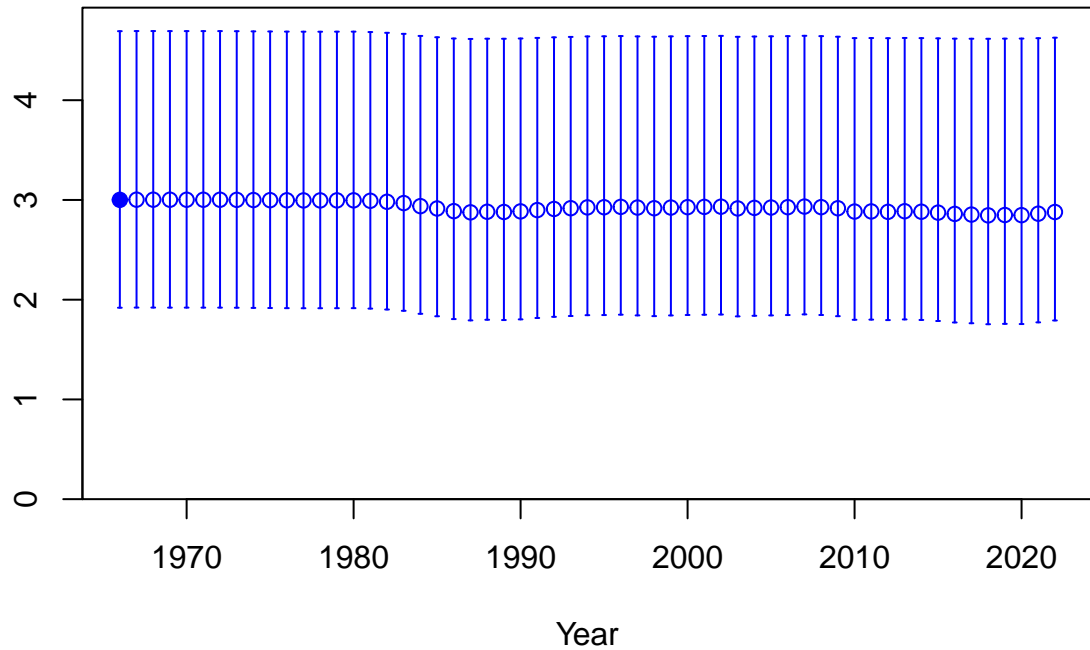








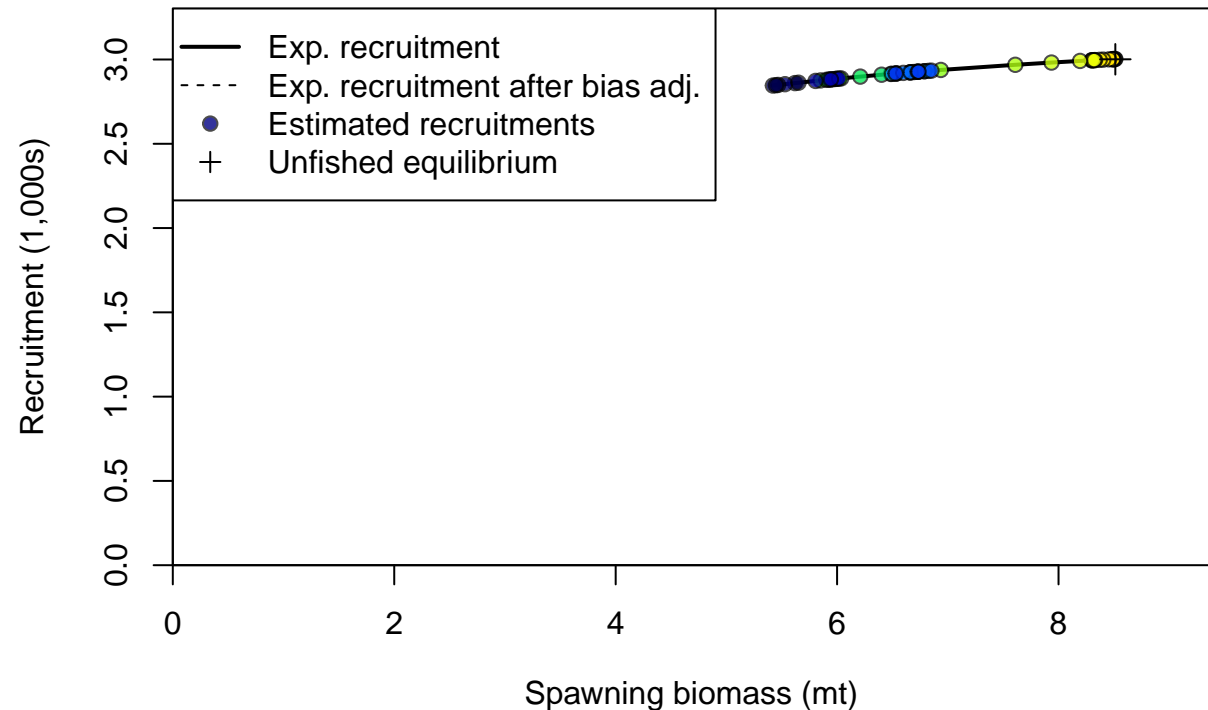
Age-0 recruits (1,000s)



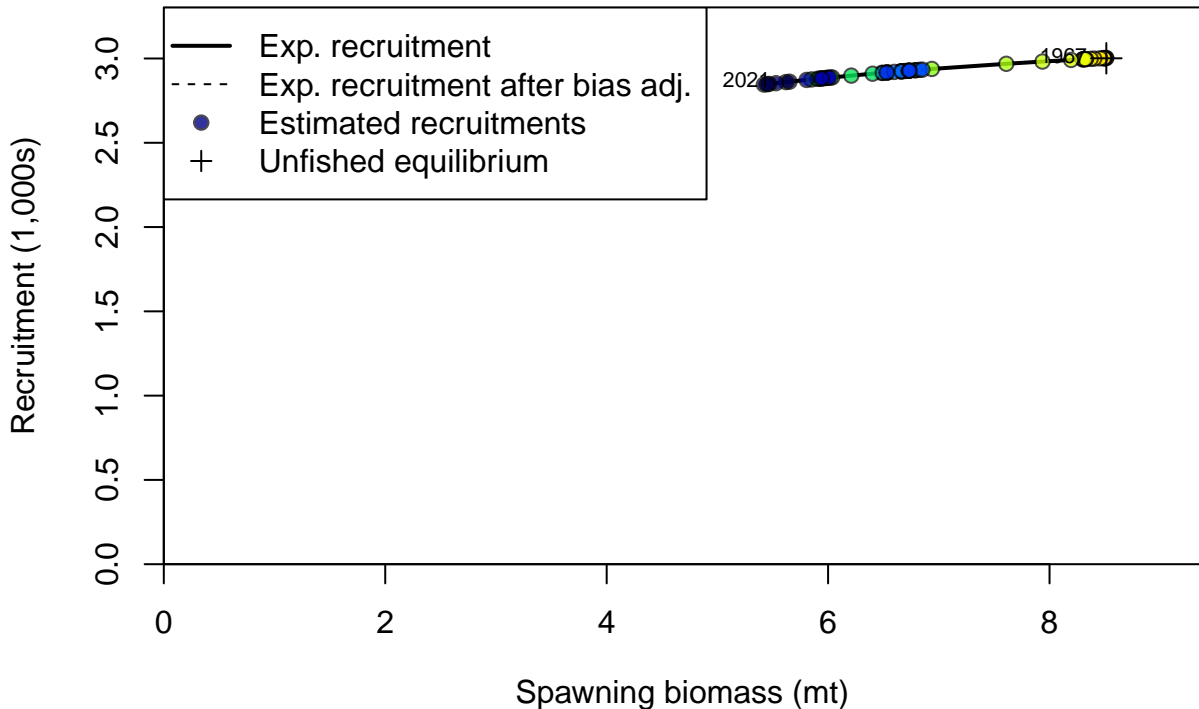
Summary Fishing Mortality

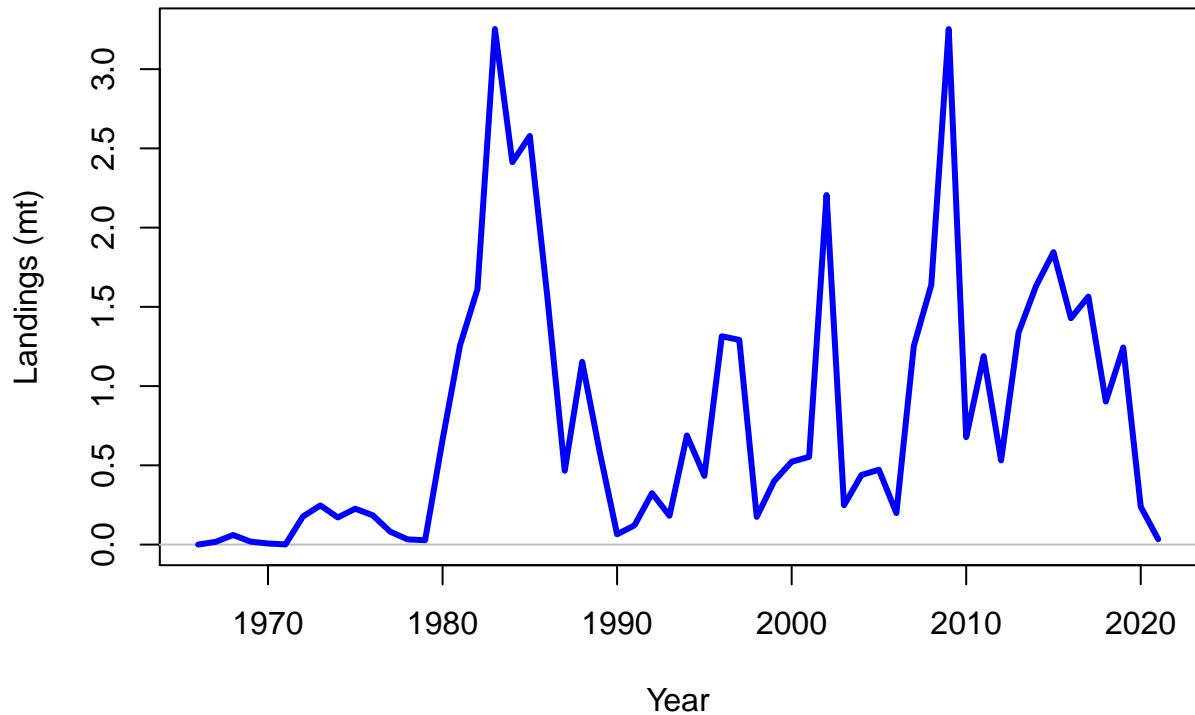


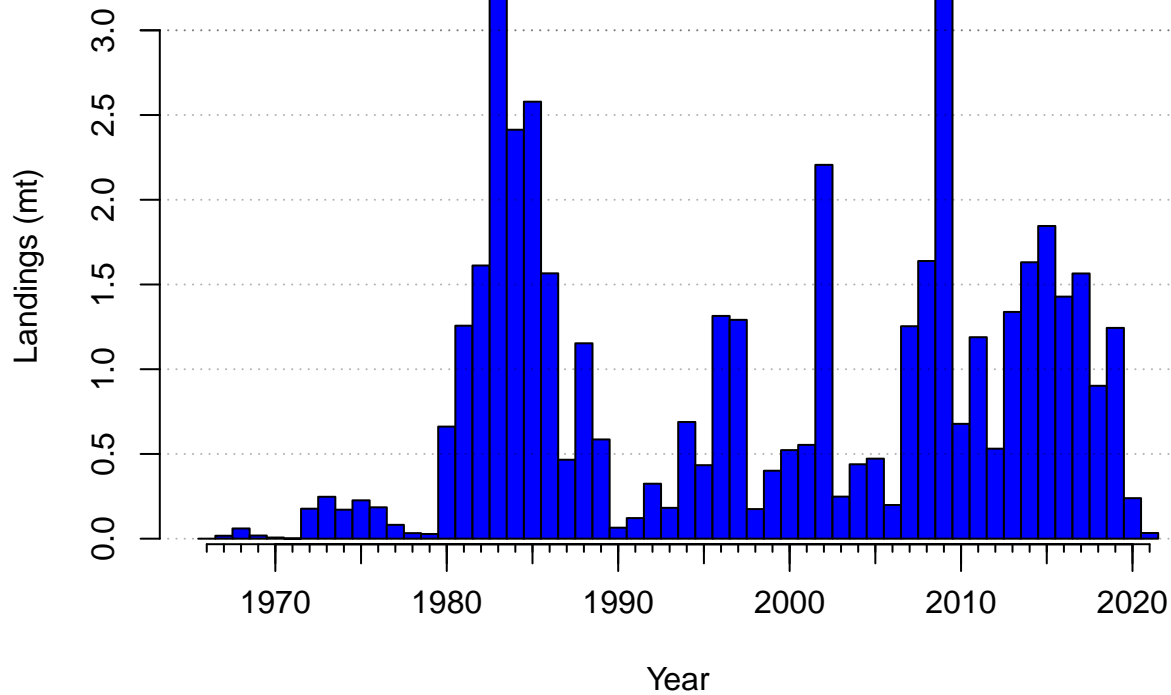


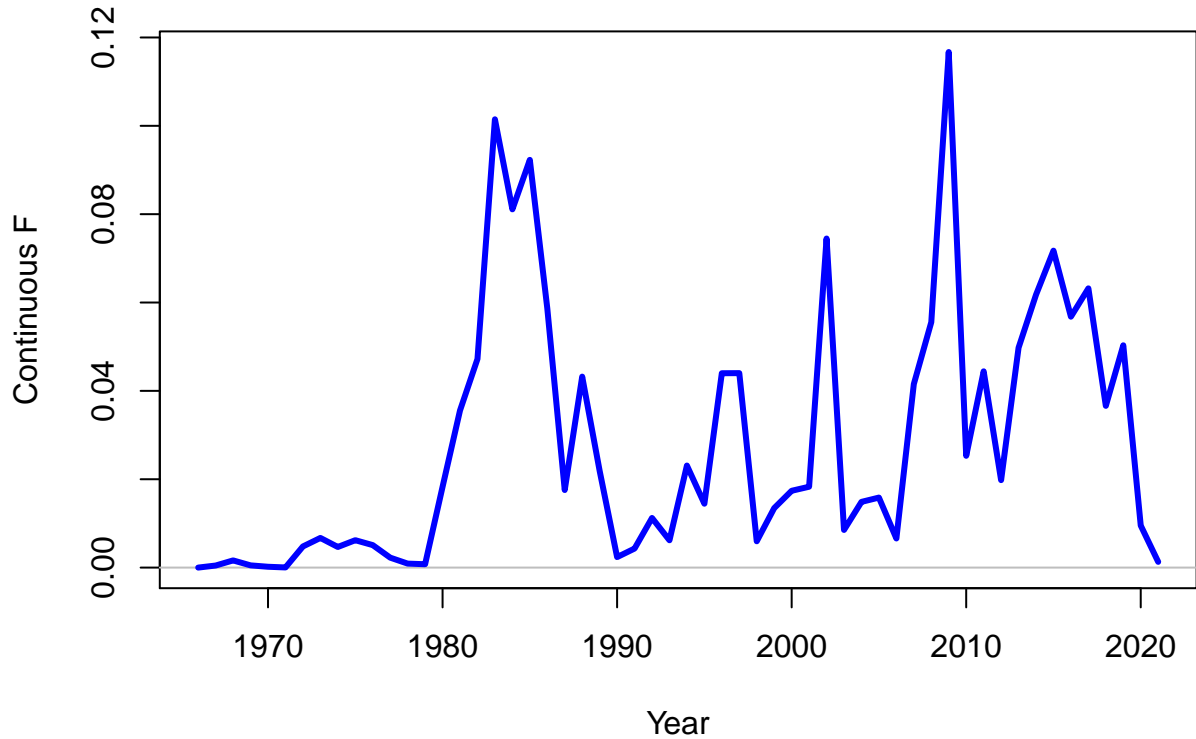












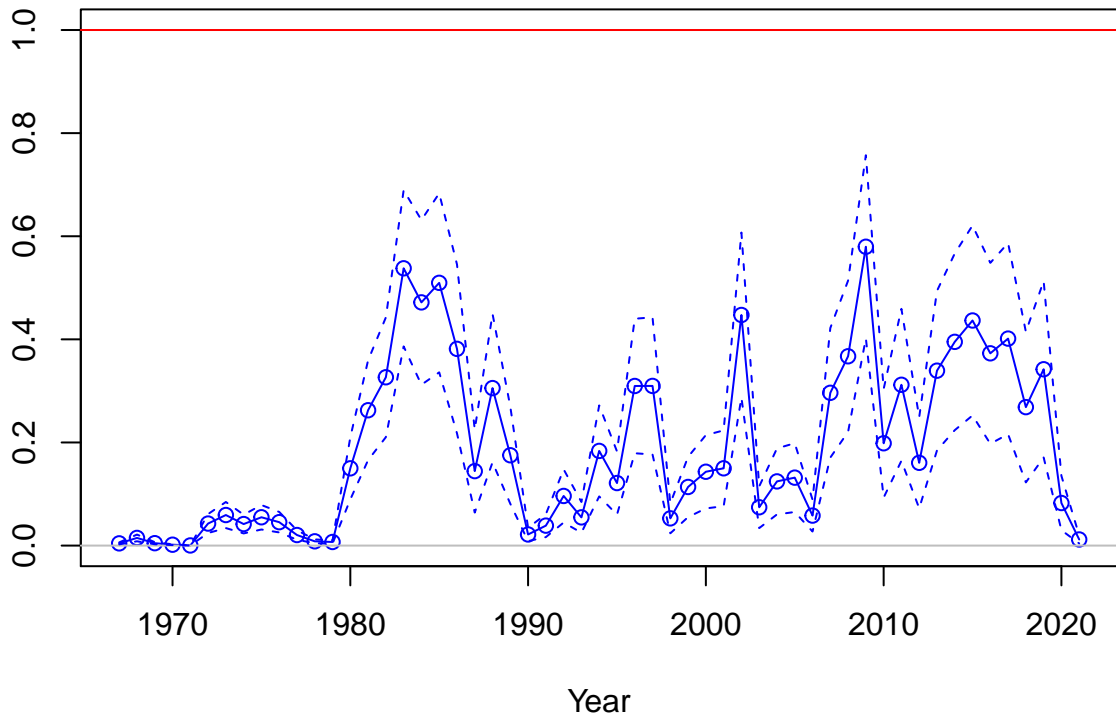
SPR



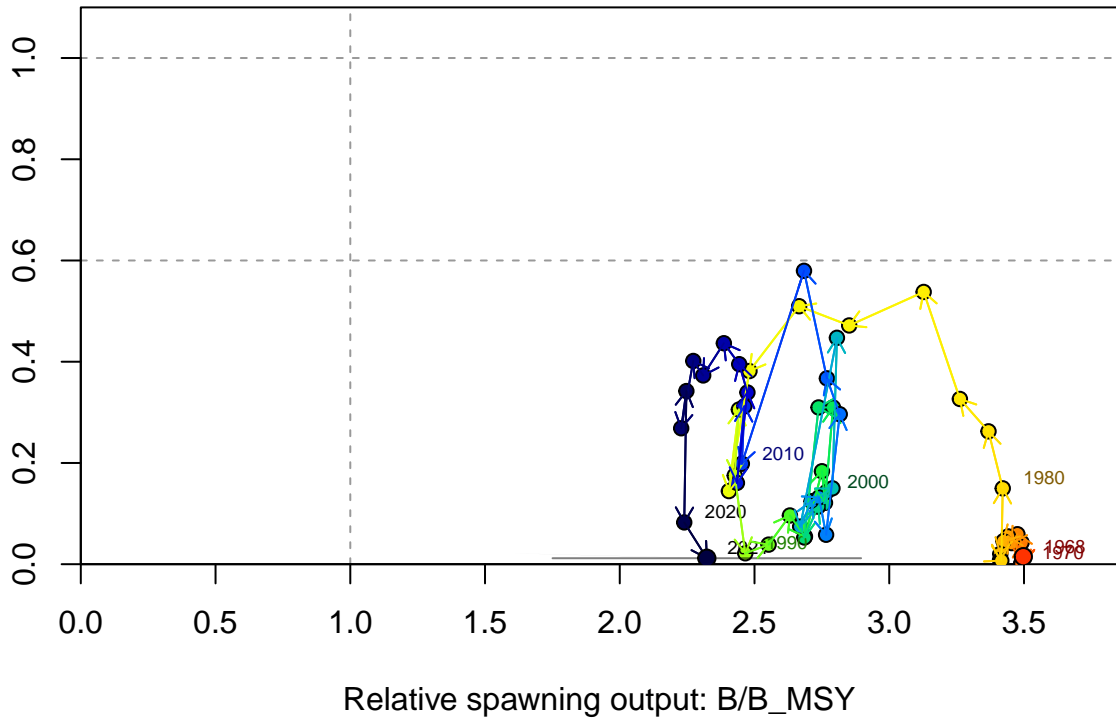
1-SPR



Fishing intensity: 1-SPR



Fishing intensity: 1-SPR

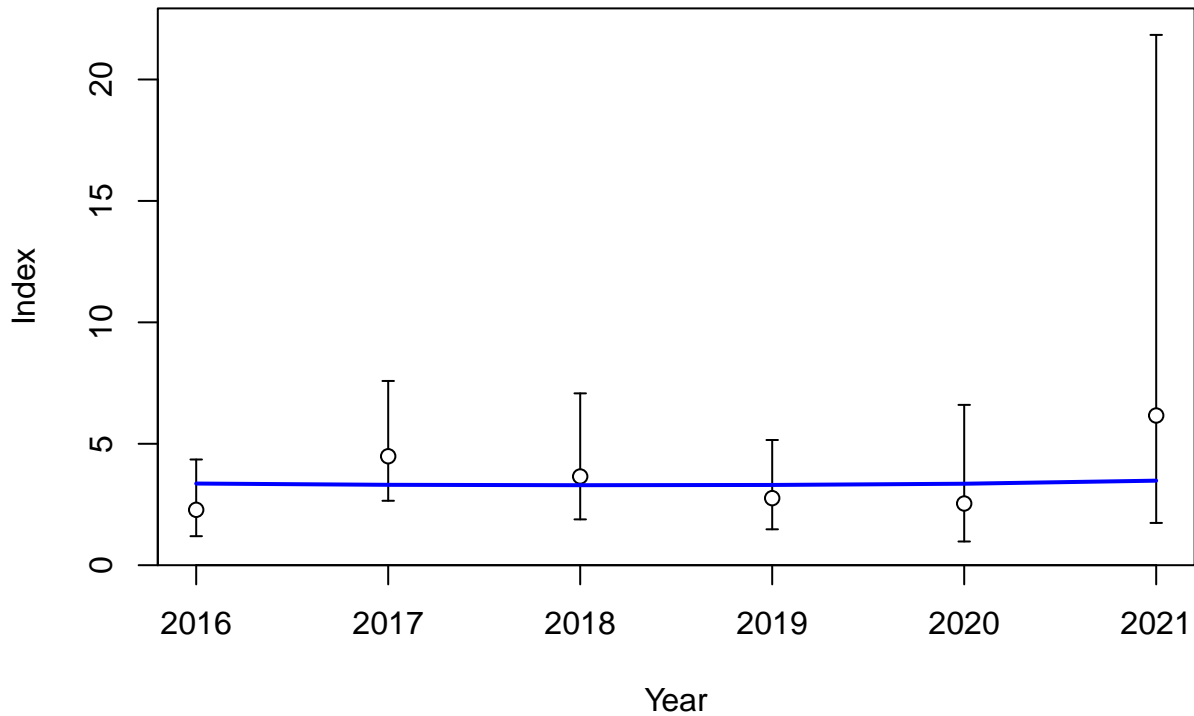




Index

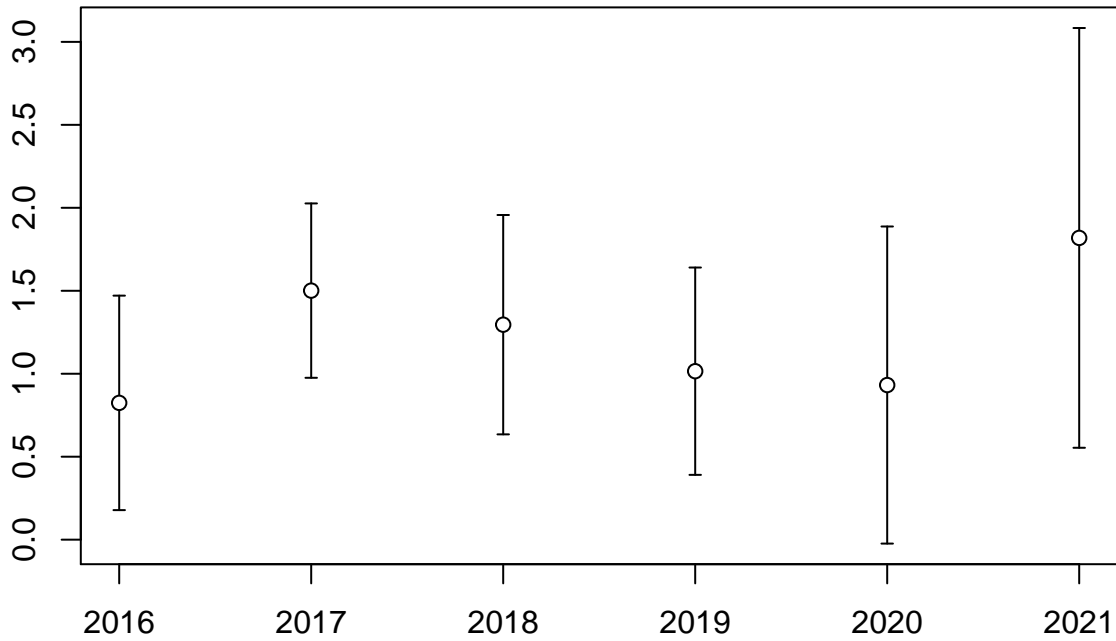


Year

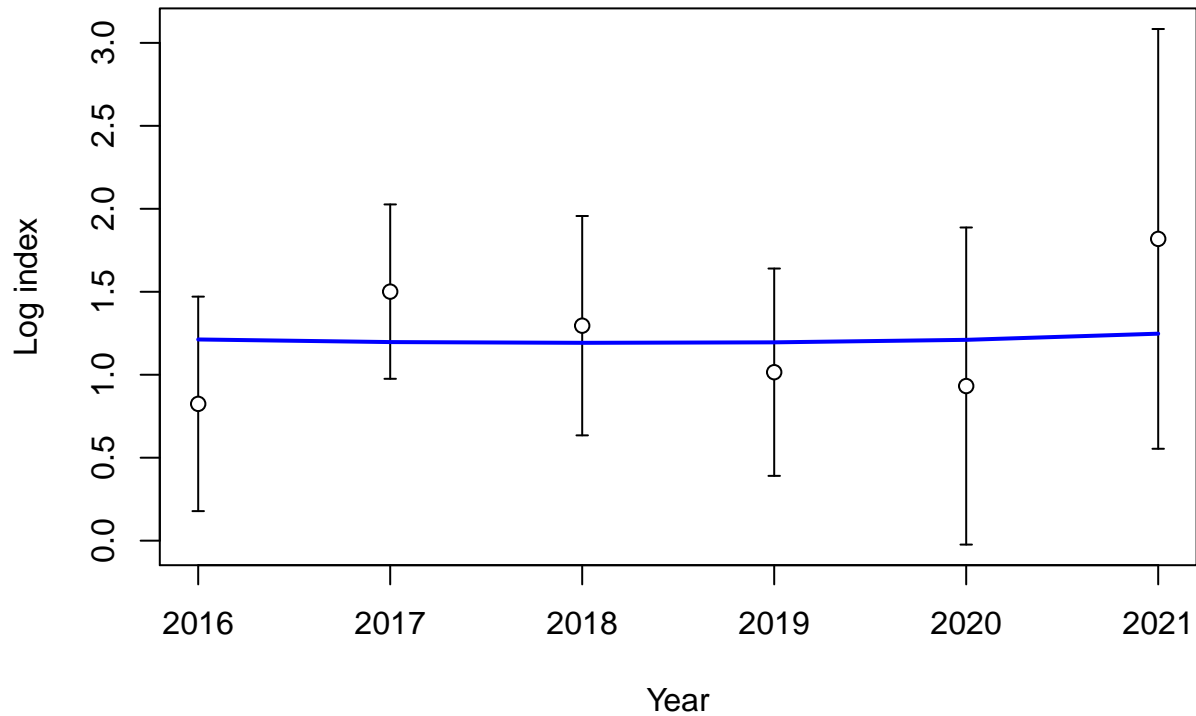


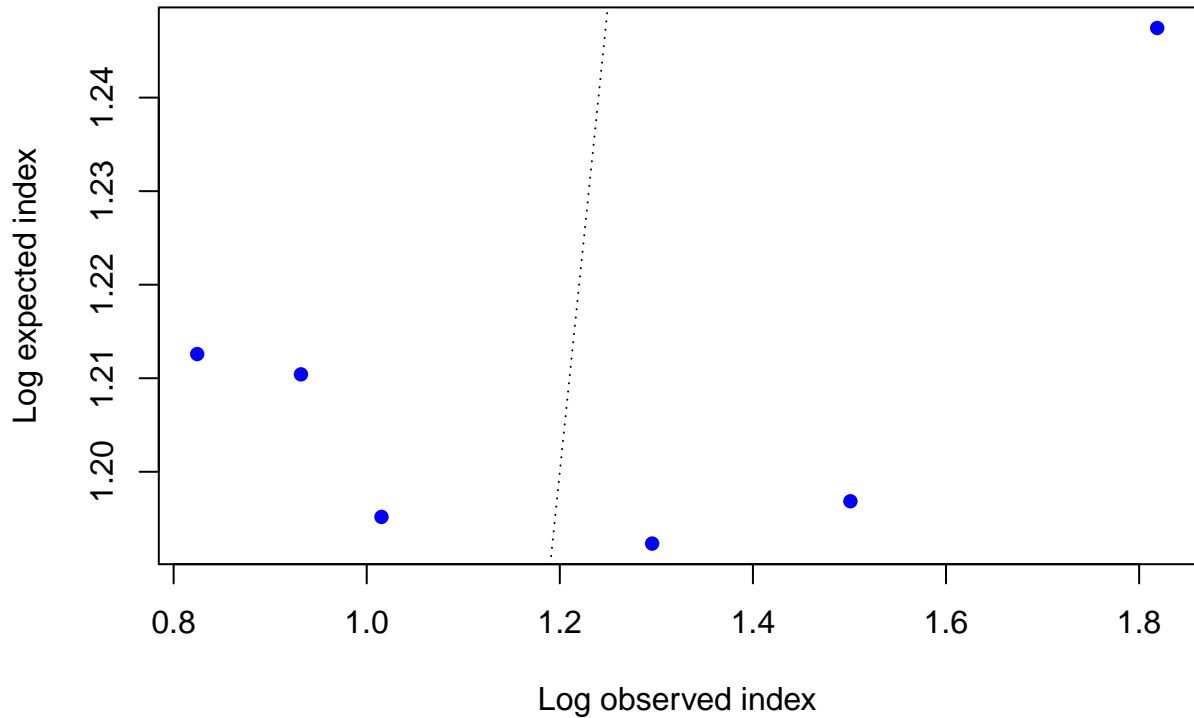


Log index

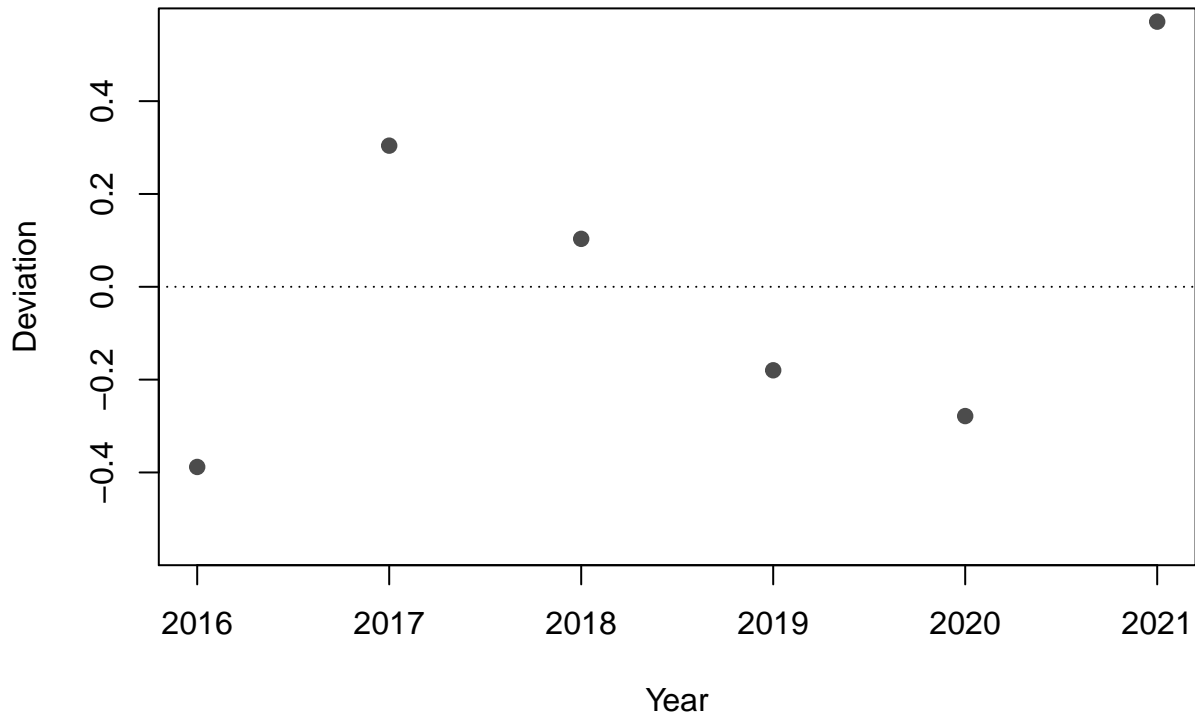


Year



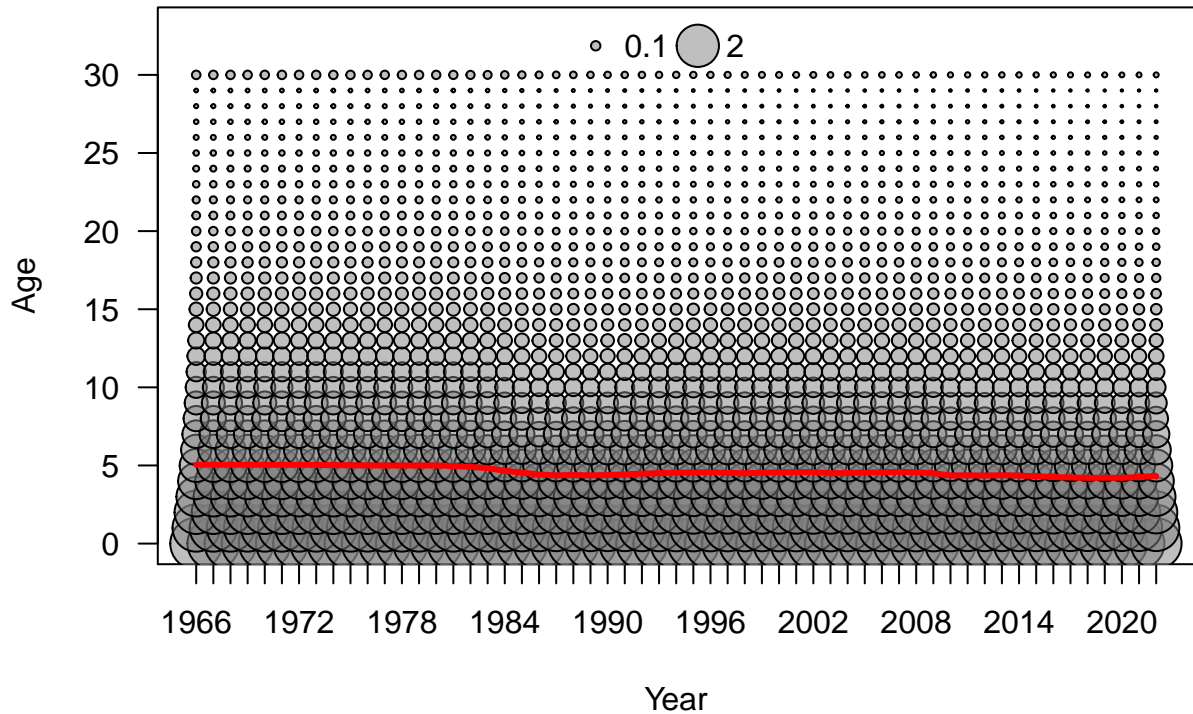


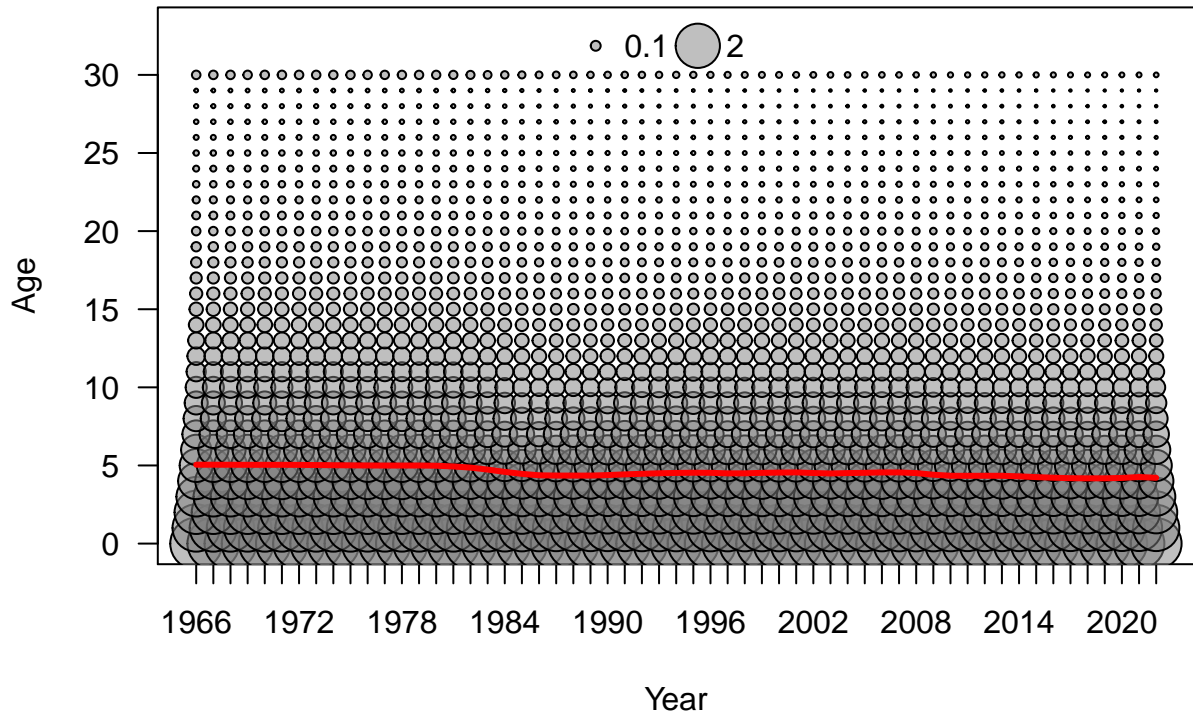




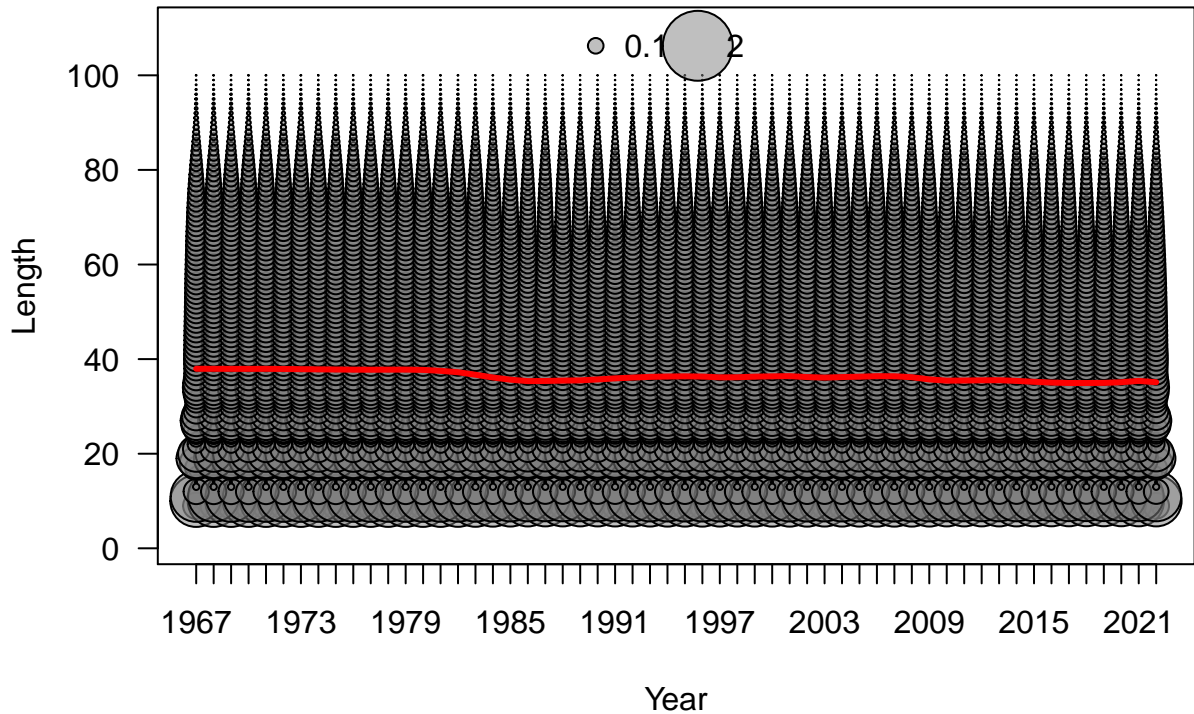










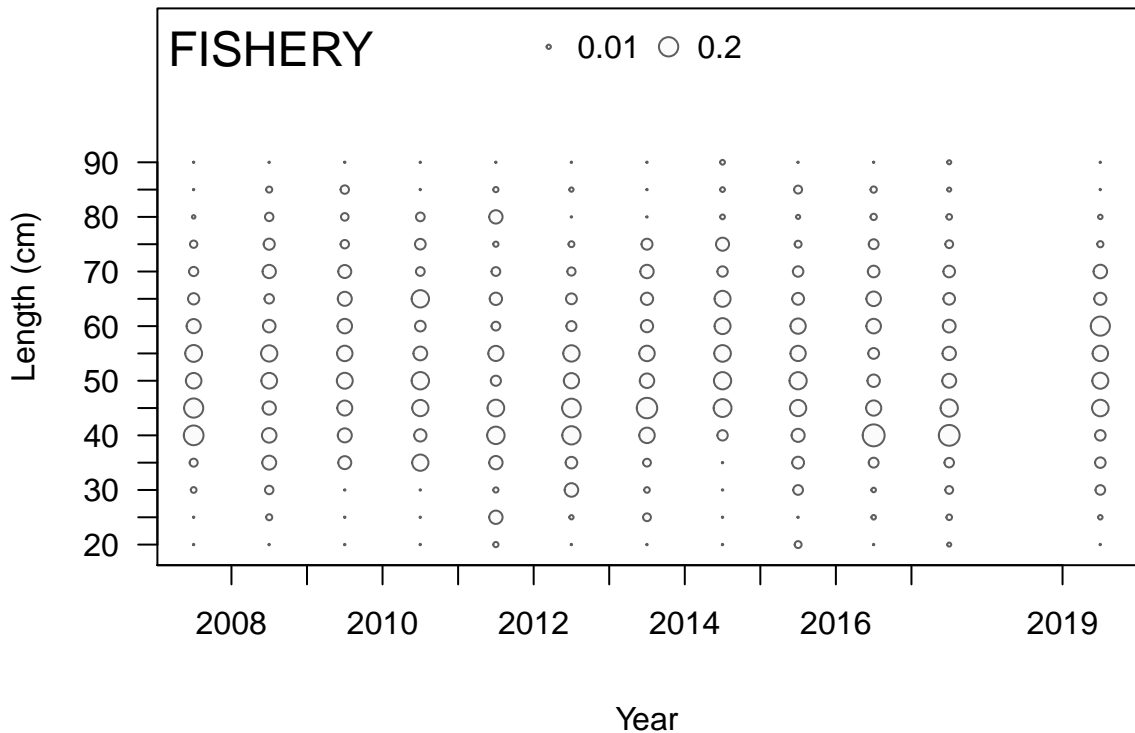




# FISHERY

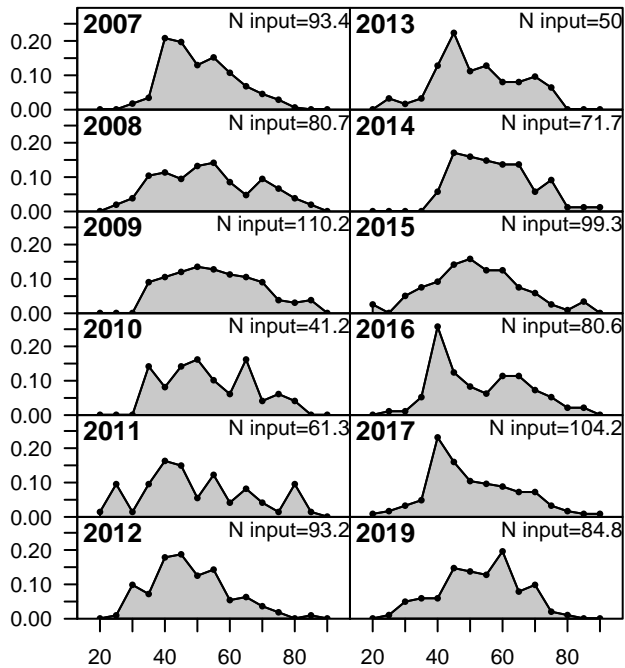
Sum of N input=970.8



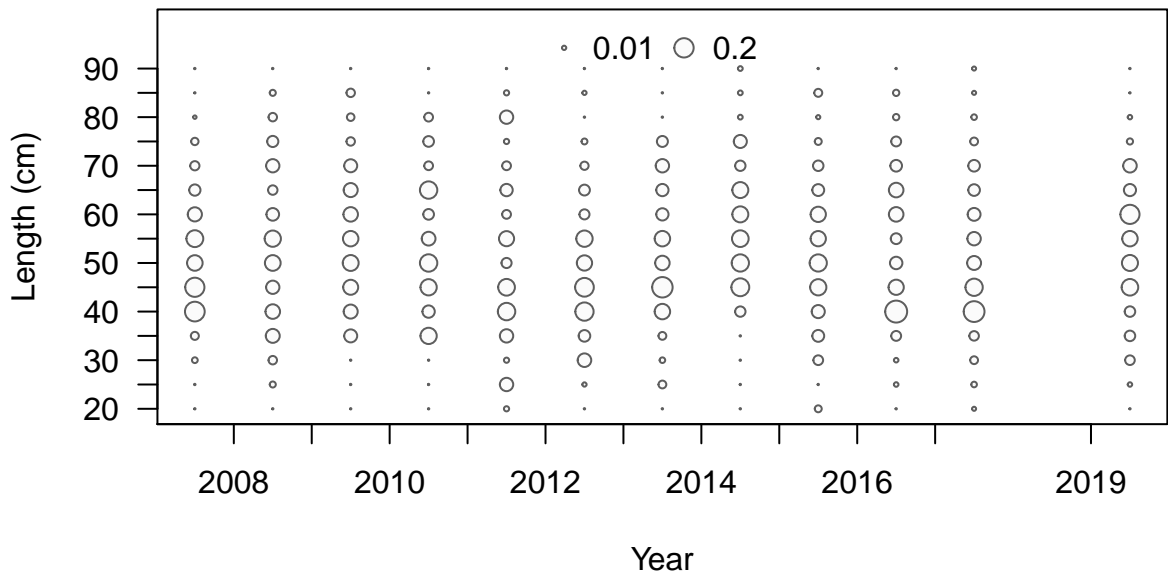




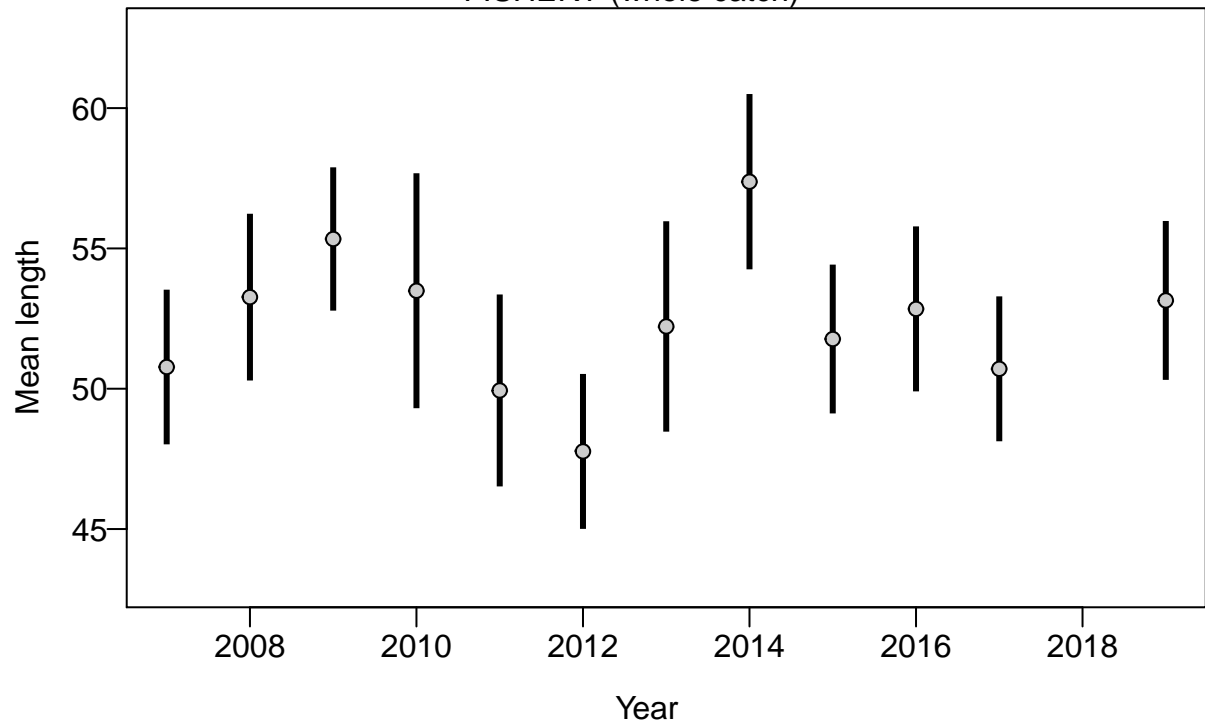
Proportion



Length (cm)



FISHERY (whole catch)



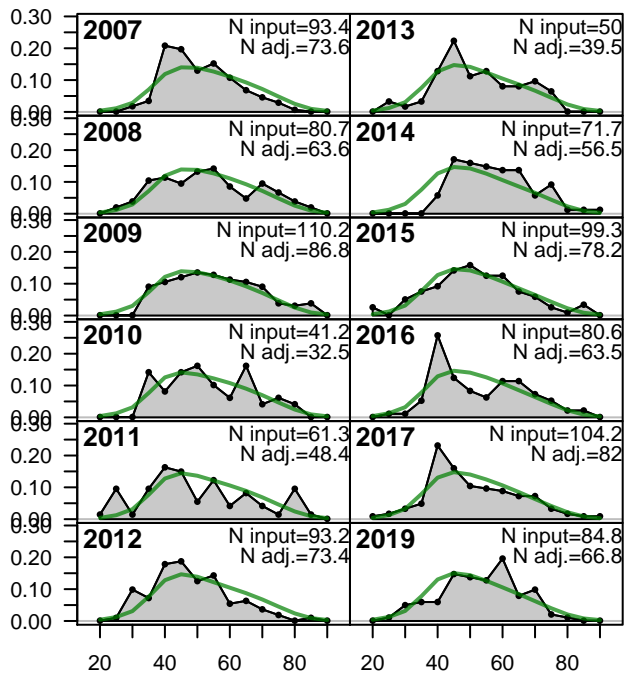
# FISHERY

Sum of N input=970.8  
Sum of N adj.=765

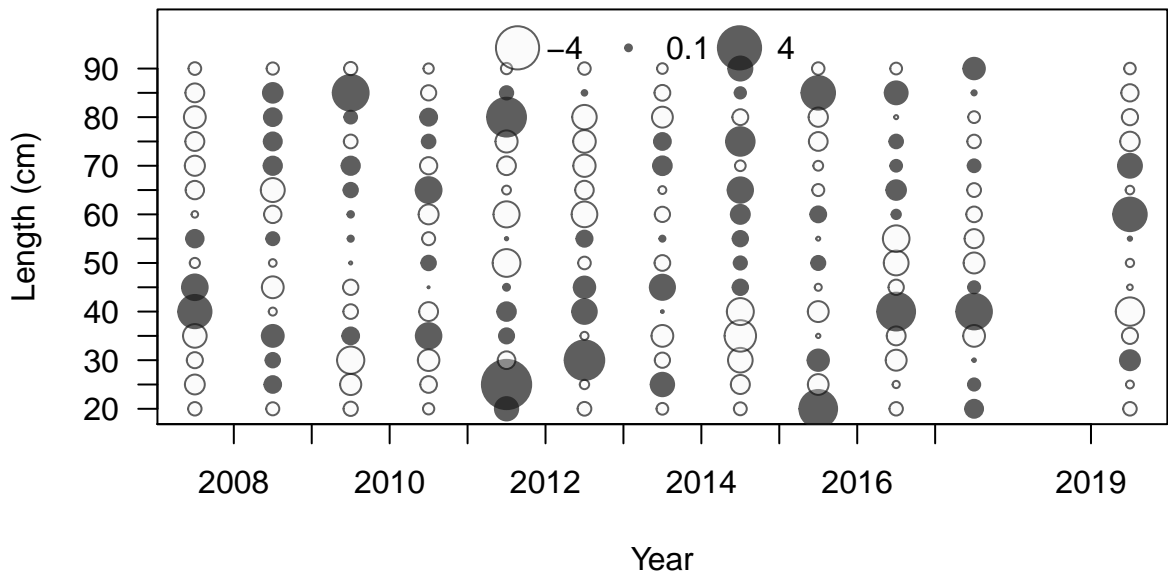




Proportion



Length (cm)



FISHERY (whole catch)



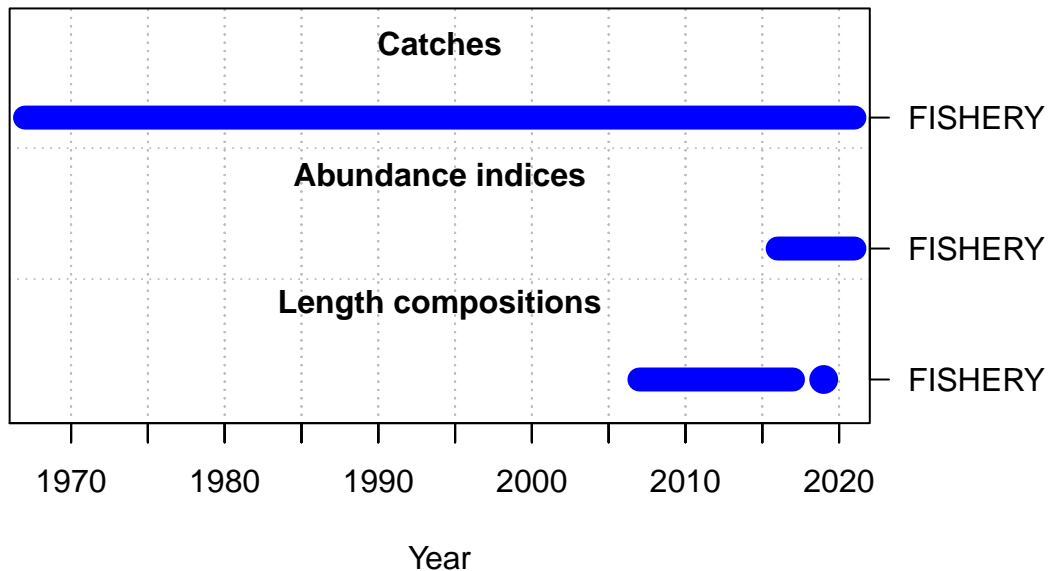


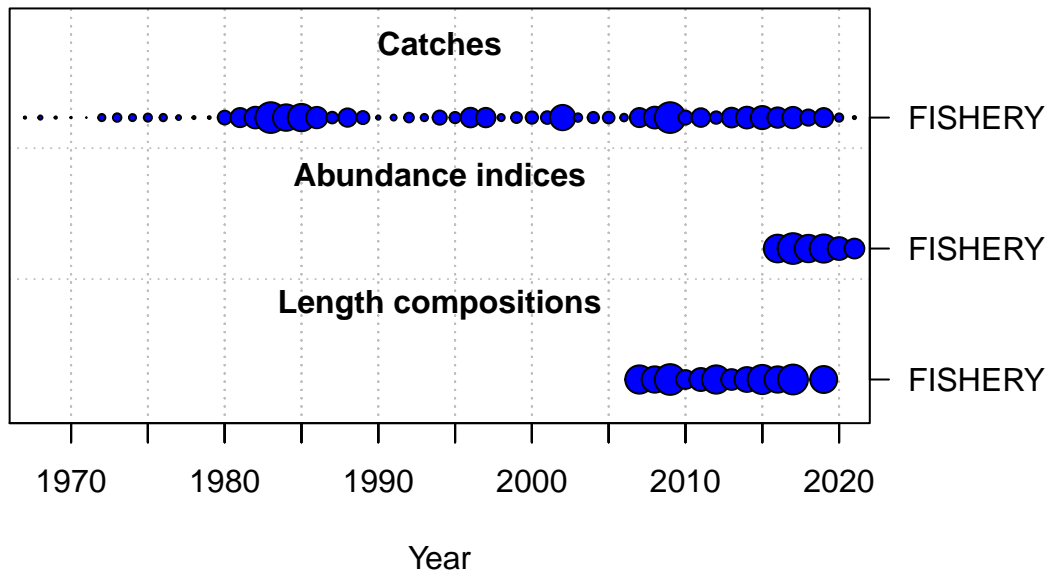




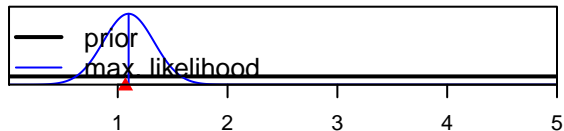




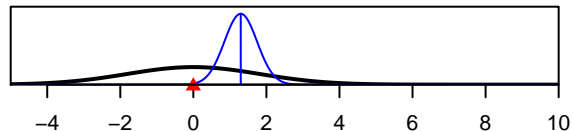




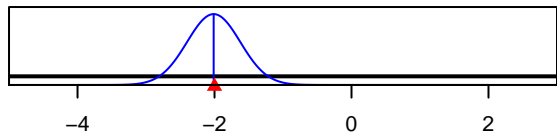
SR\_LN(R0)



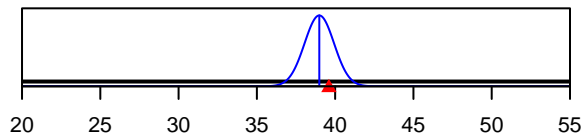
ln(DM\_theta)\_1



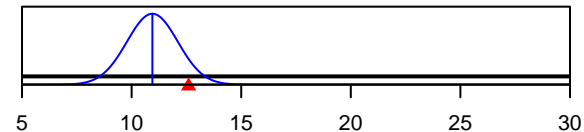
LnQ\_base\_FISHERY(1)



Size\_inflection\_FISHERY(1)



Size\_95%width\_FISHERY(1)



Parameter value