

Plots created using the 'r4ss' package in R
Stock Synthesis version: 3.30.19.0
StartTime: Thu Oct 06 14:45:13 2022
Data_File: data.ss
Control_File: control.ss

Length (cm, beginning of the year)

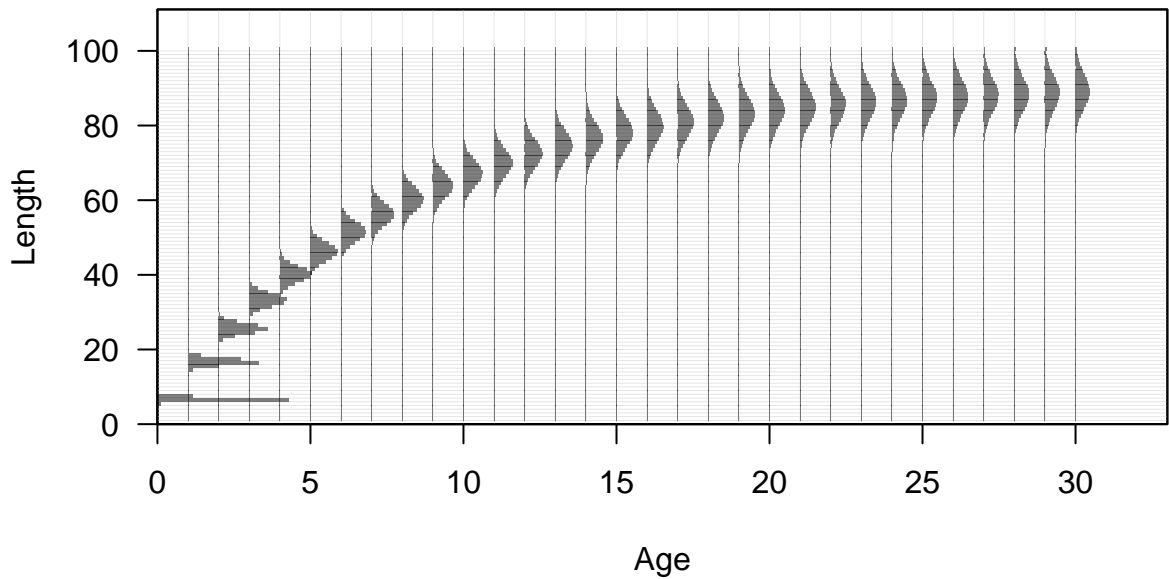
























Fecundity



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

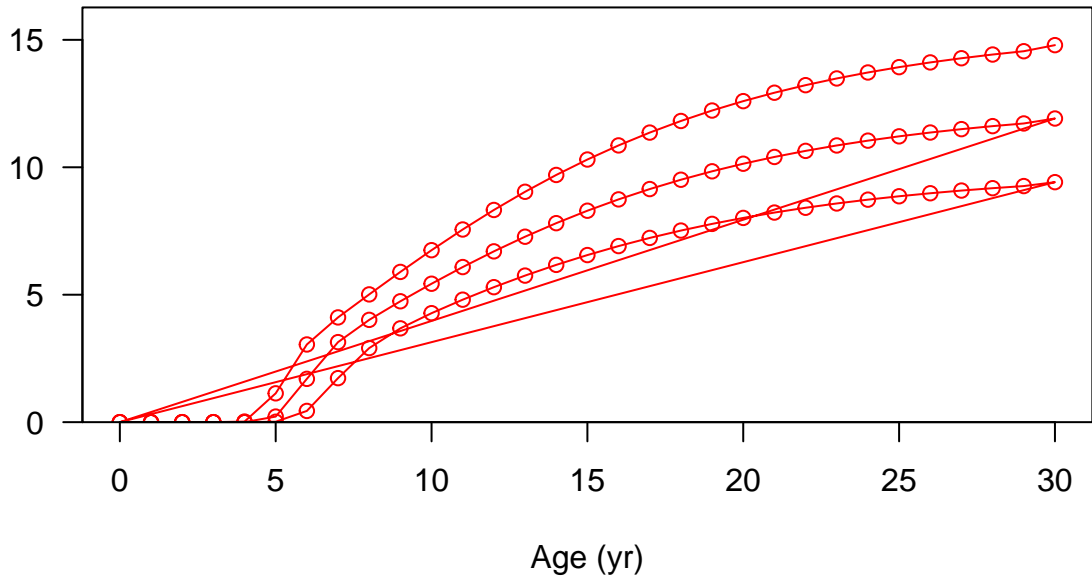
80

100

Length (cm)



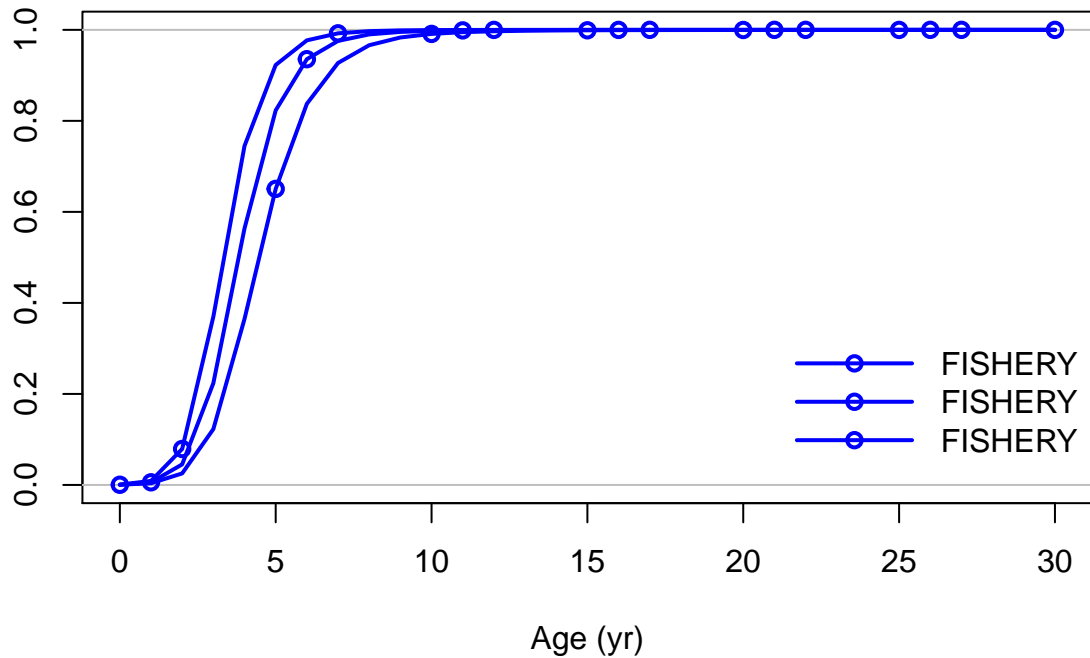
Spawning output



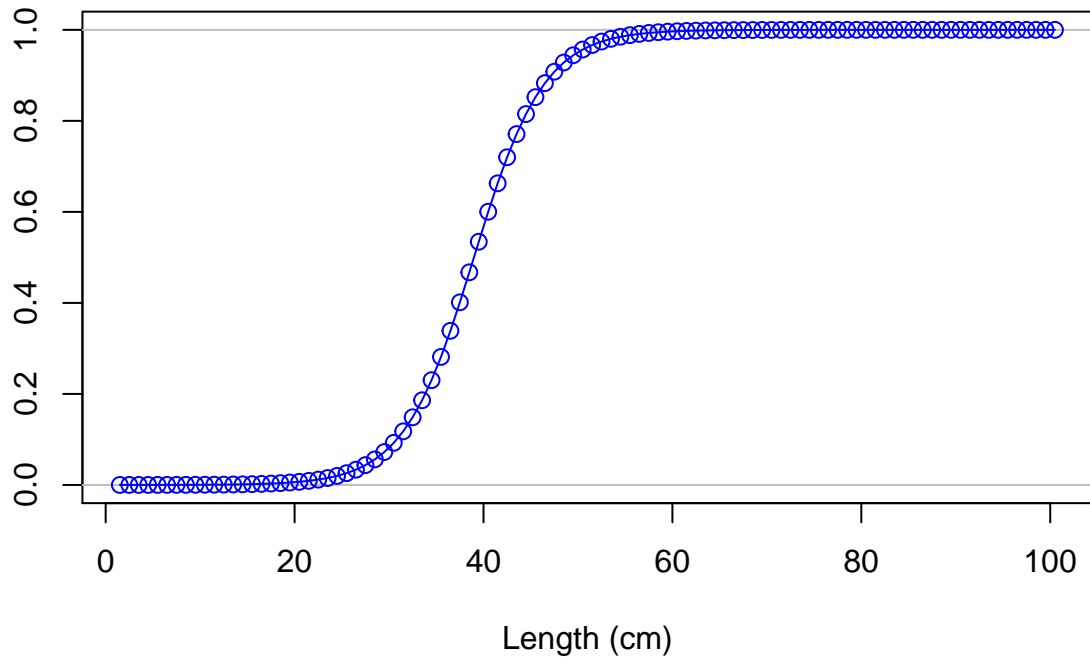
Selectivity

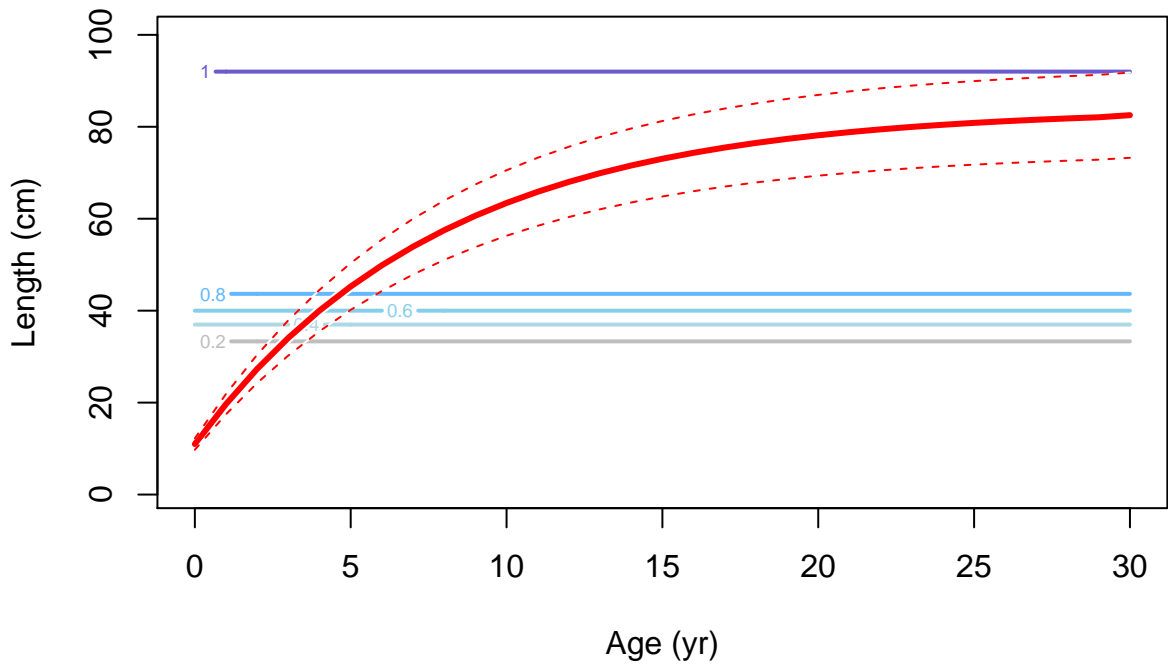


Selectivity



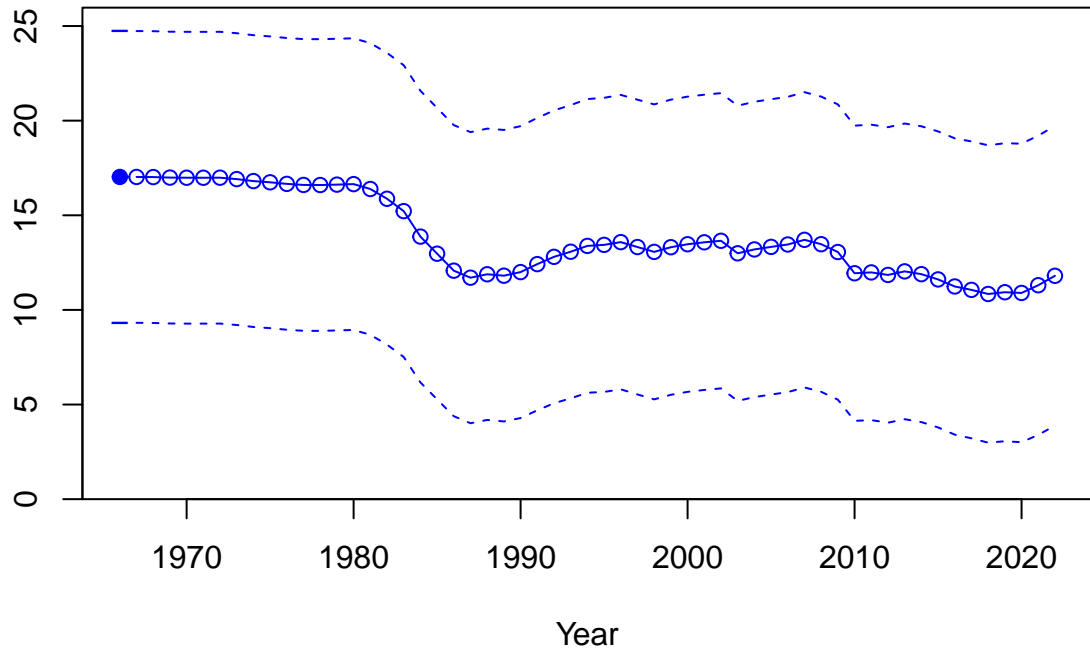
Selectivity







Spawning biomass (mt)



Relative spawning biomass: B/B_{MSY}

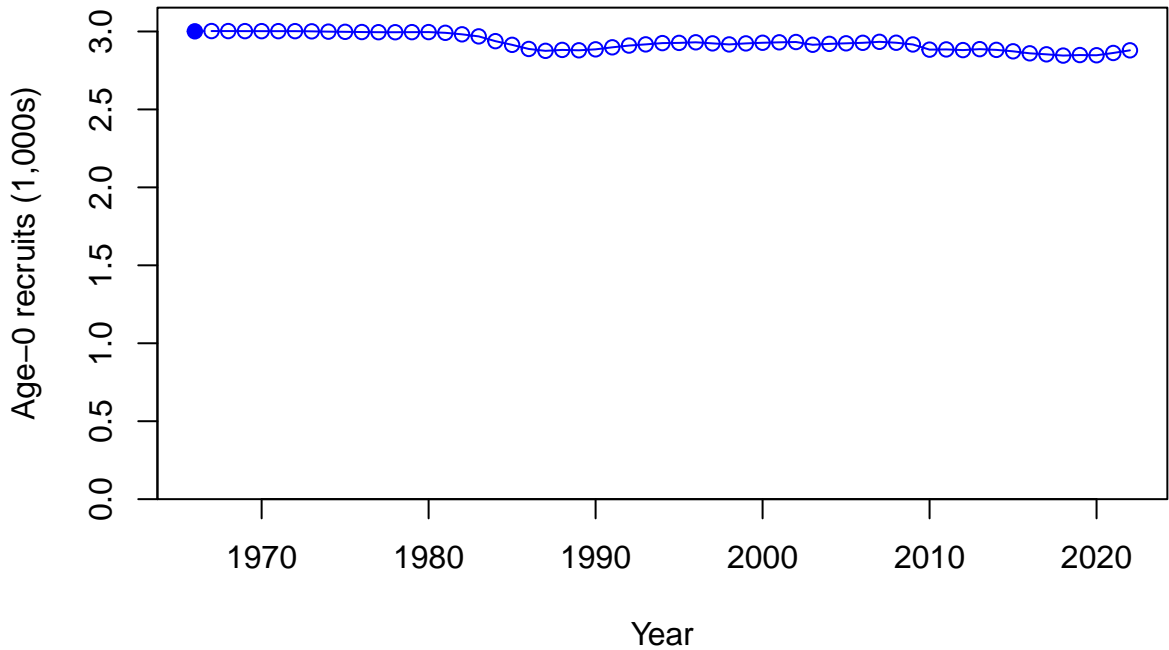


Relative spawning biomass: B/B_{MSY}

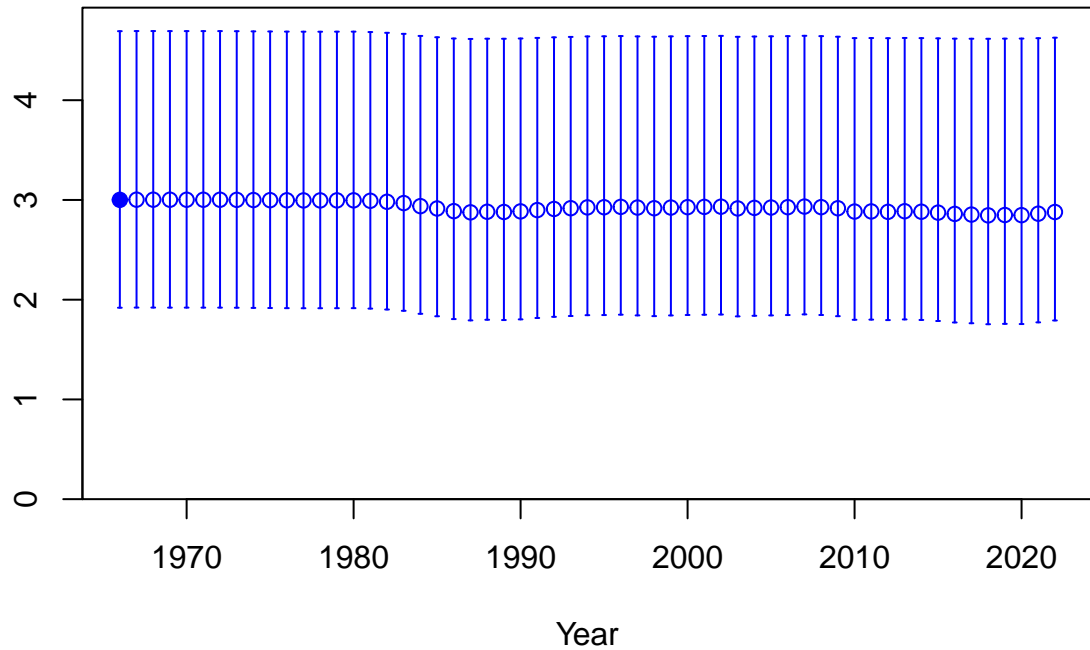








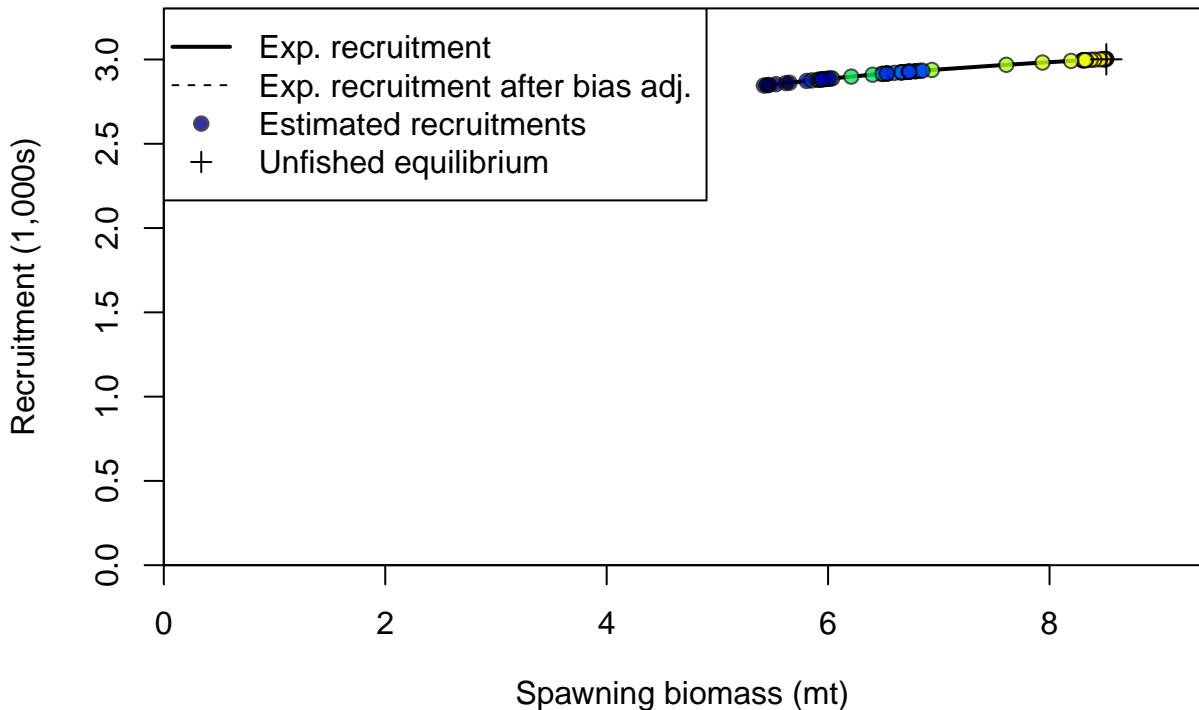
Age-0 recruits (1,000s)

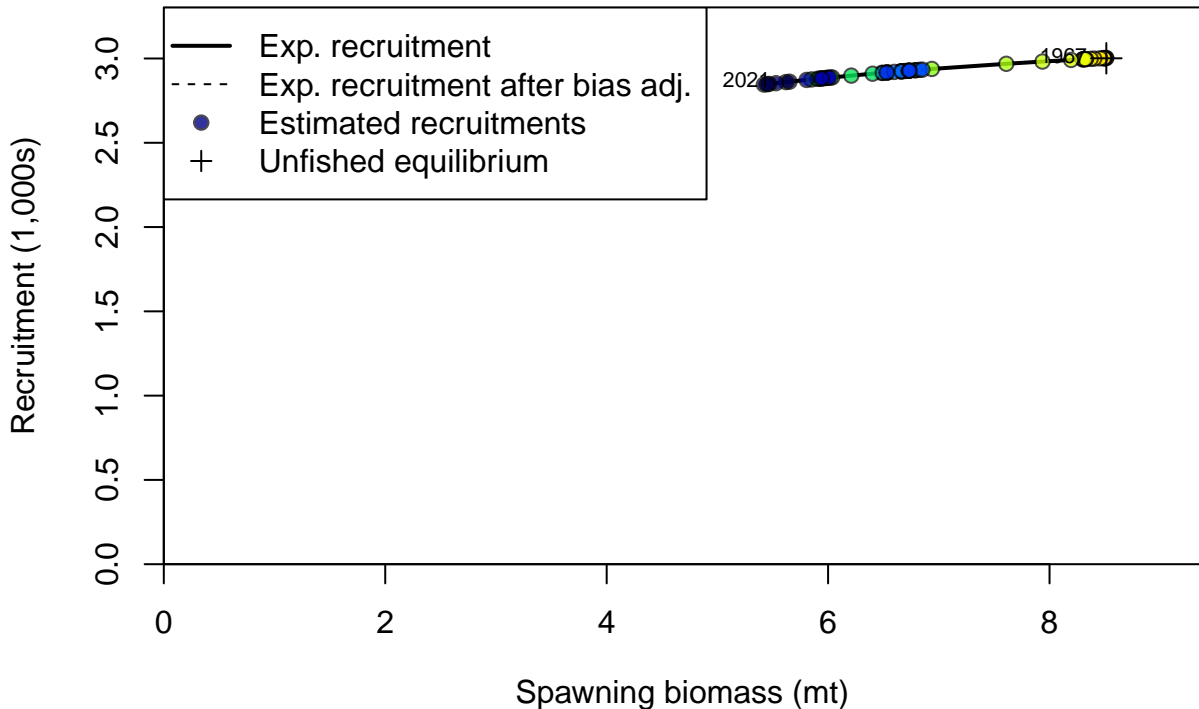


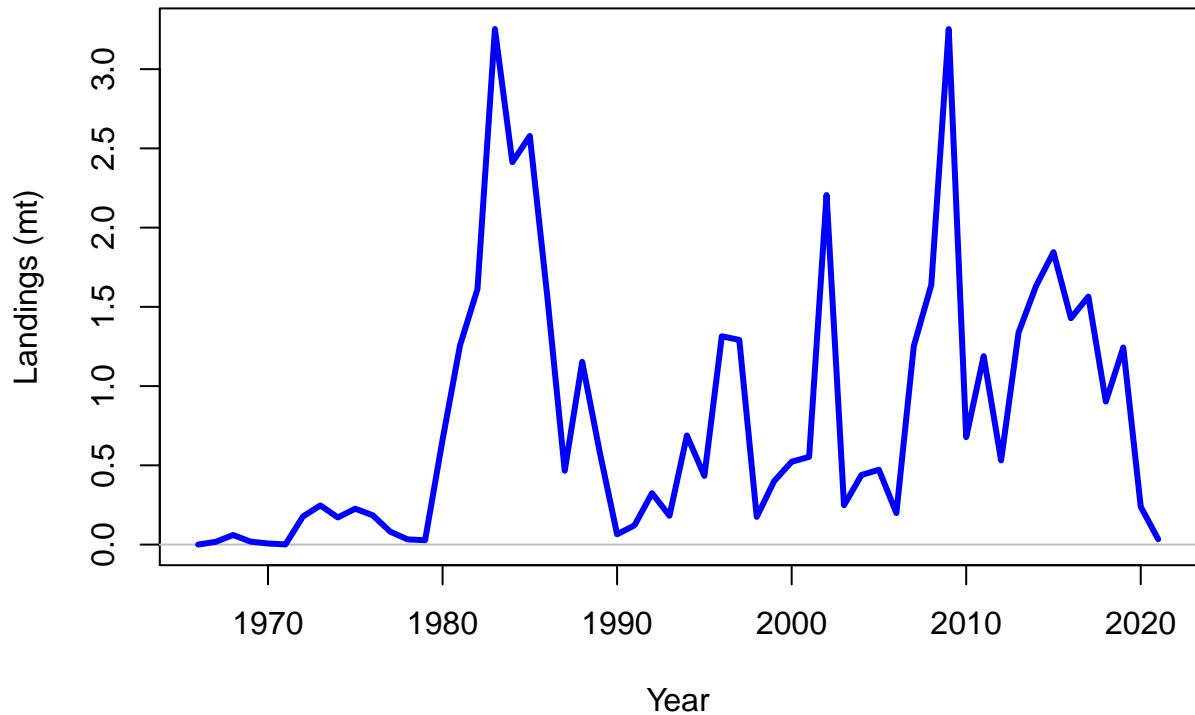
Summary Fishing Mortality

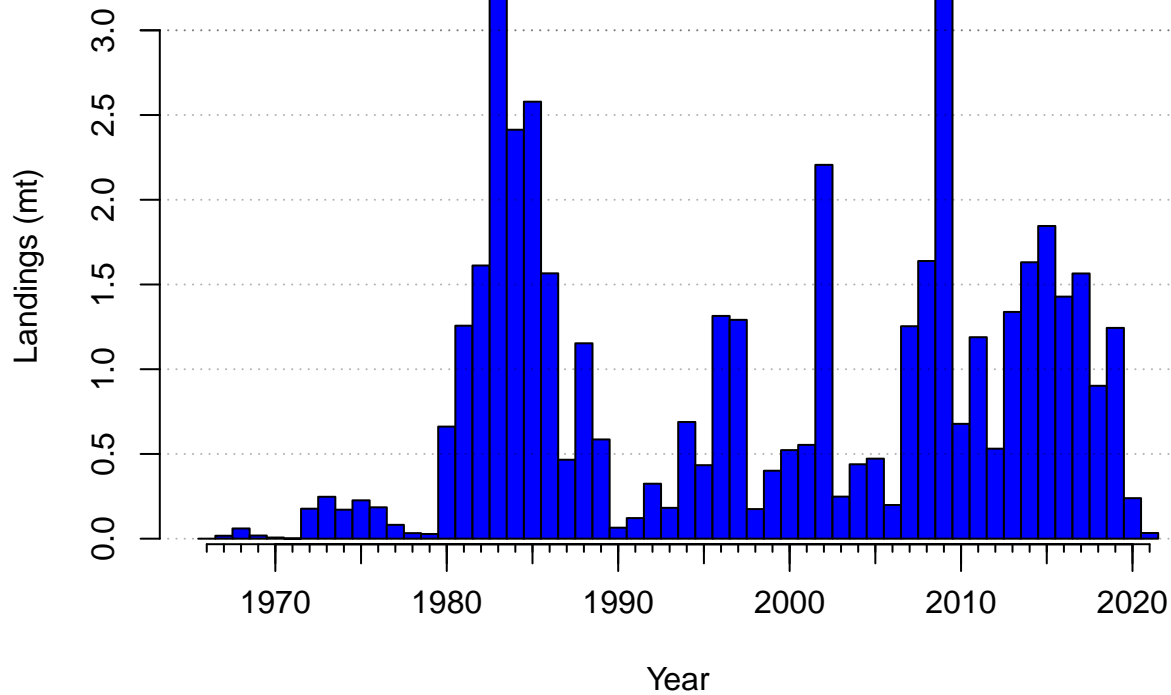


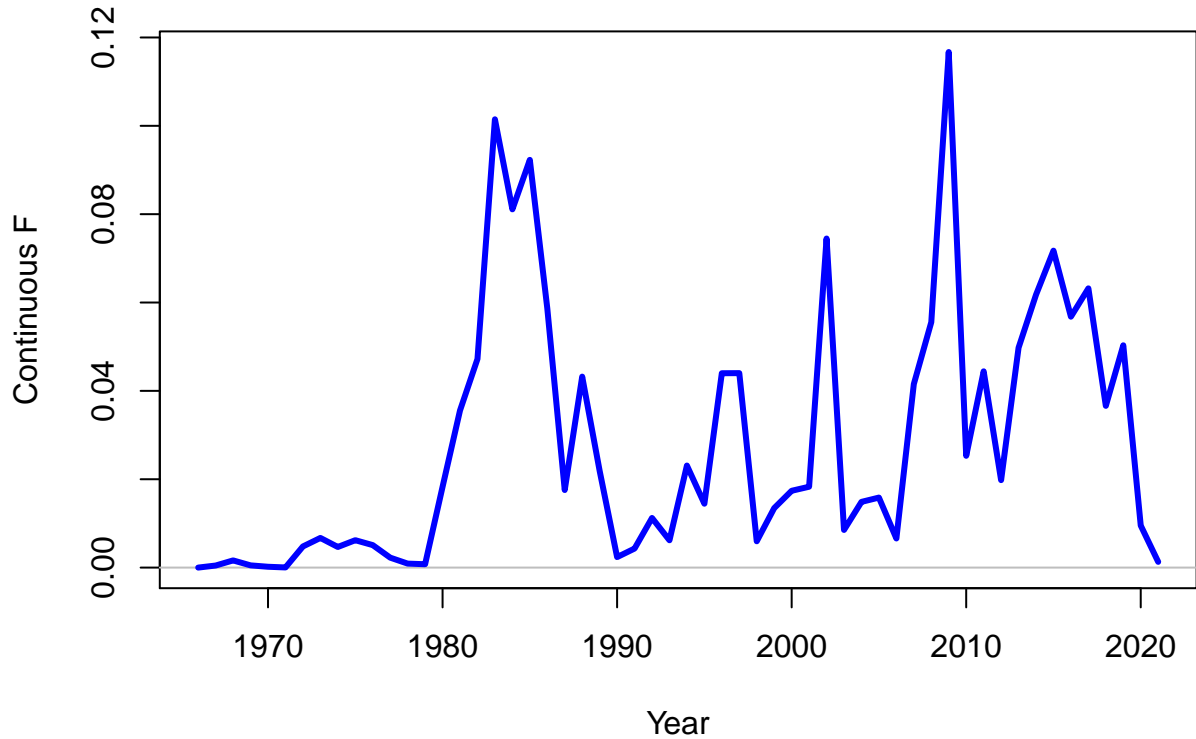












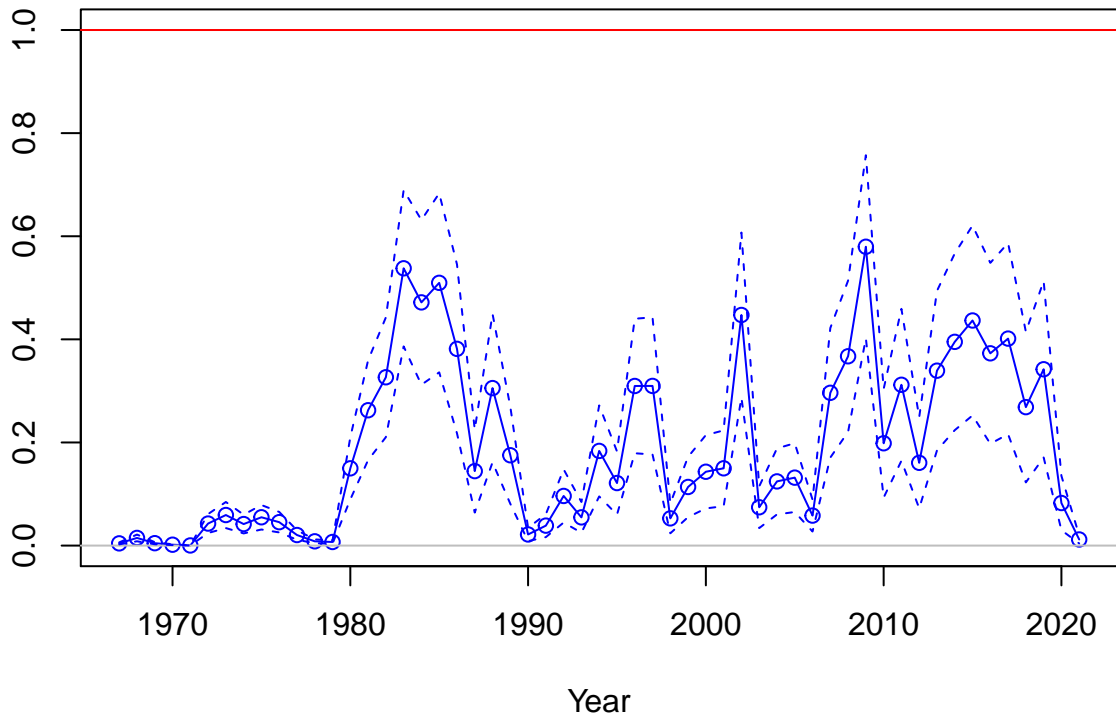
SPR



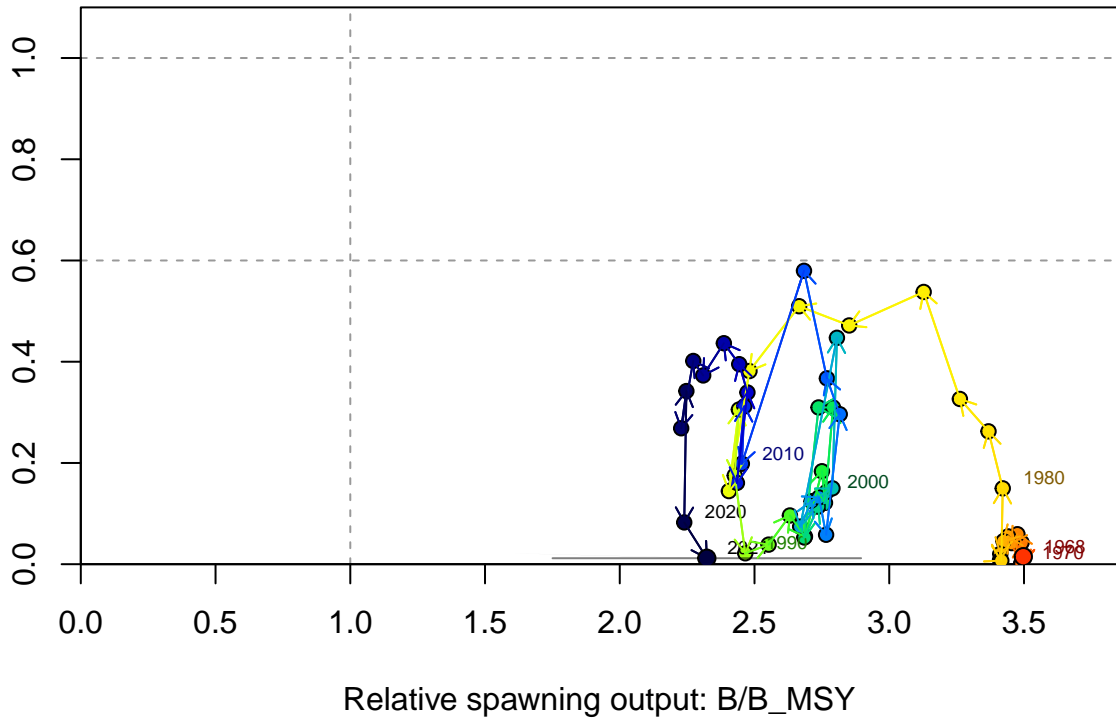
1-SPR



Fishing intensity: 1-SPR



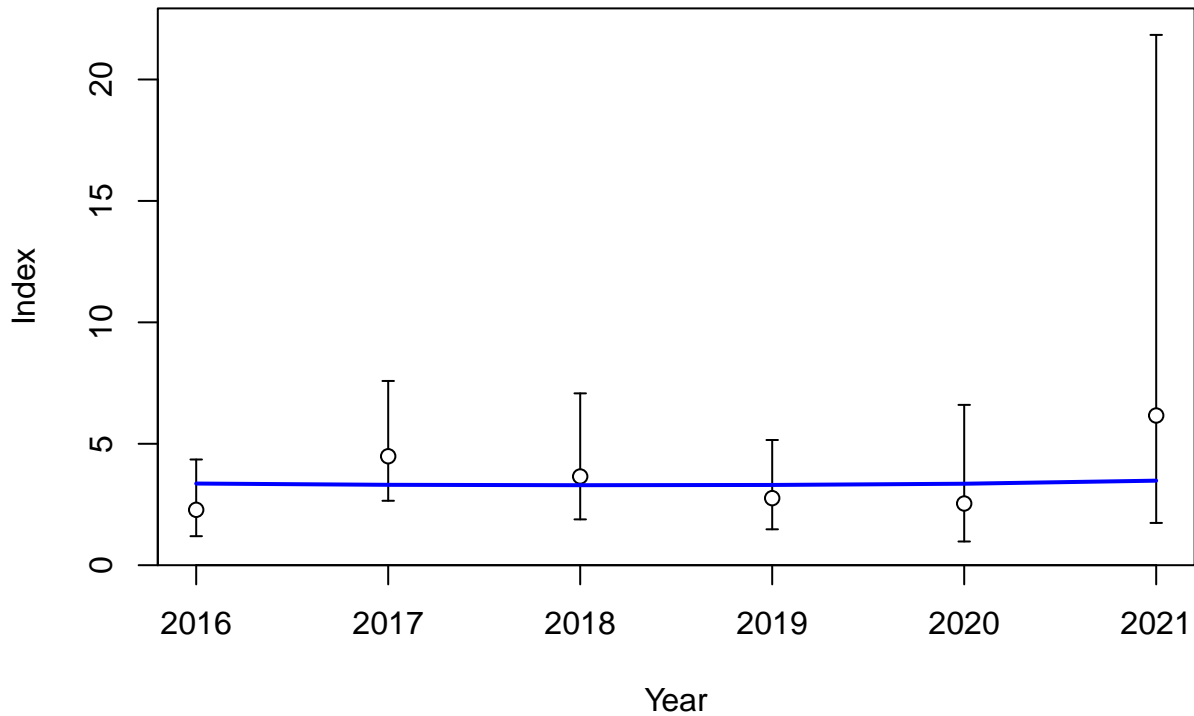
Fishing intensity: 1-SPR



Index



Year





Log index

3.0
2.5
2.0
1.5
1.0
0.5
0.0

2016

2017

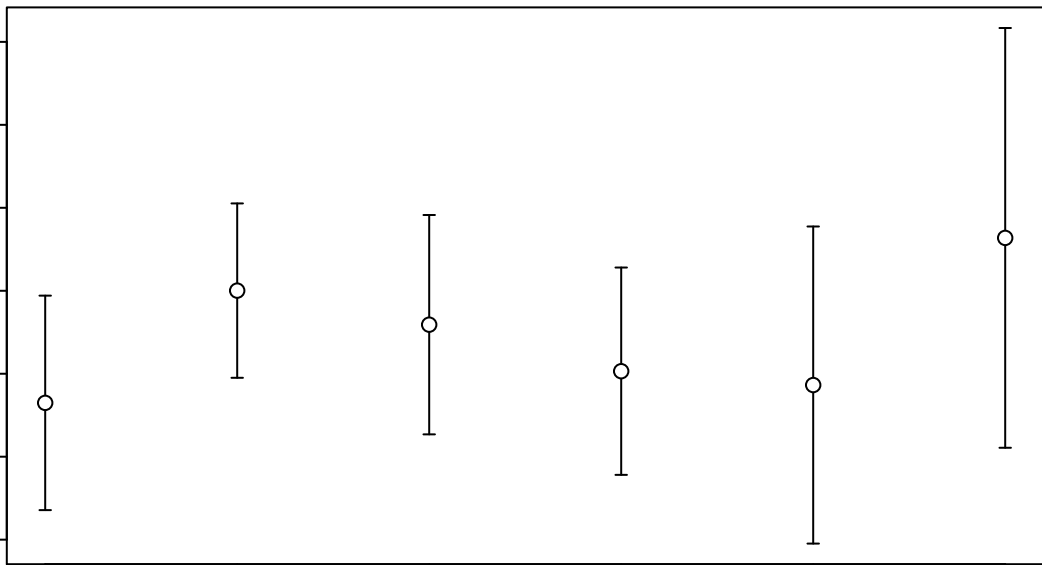
2018

2019

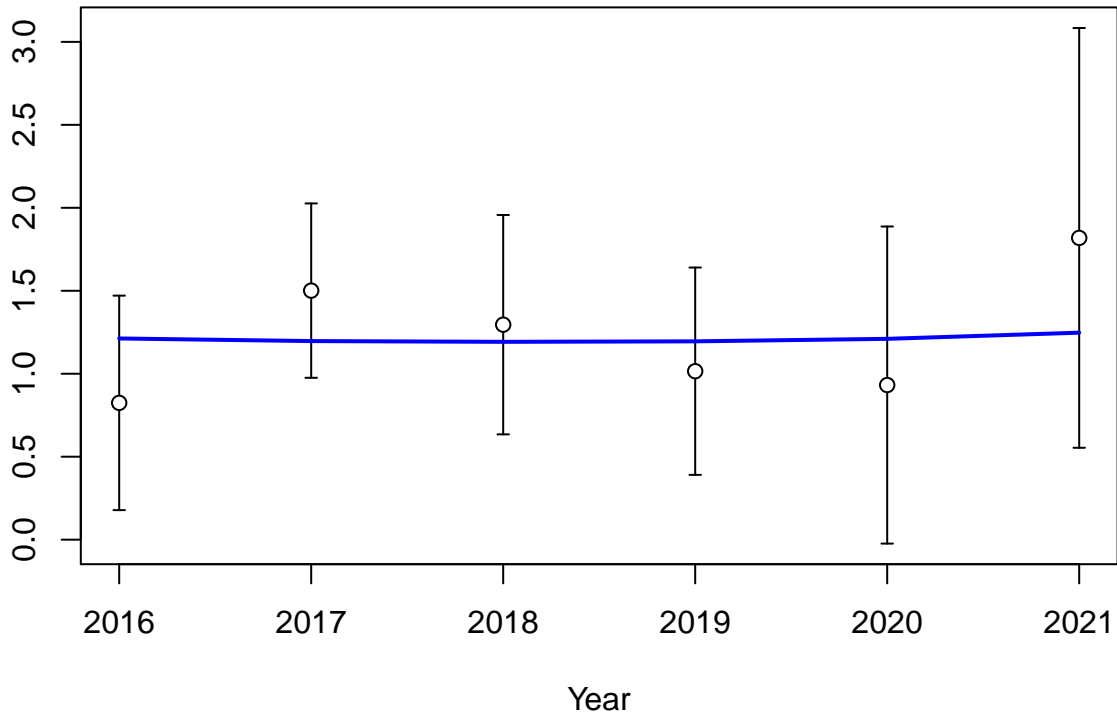
2020

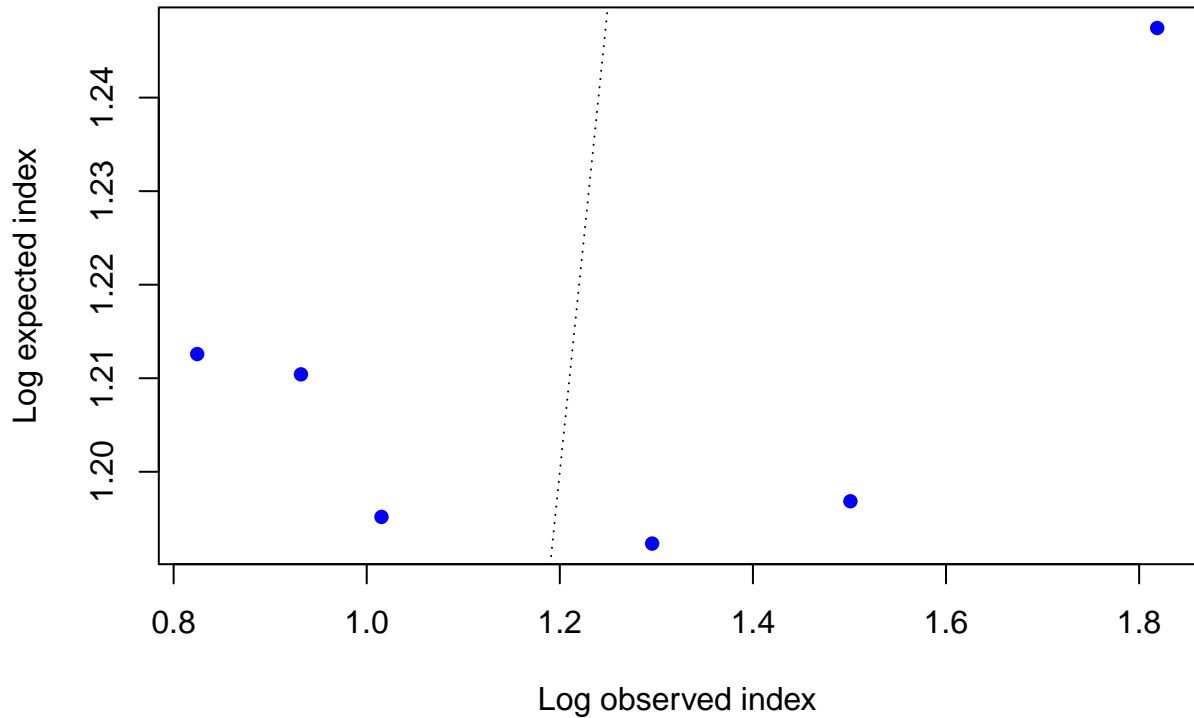
2021

Year



Log index







Deviation

0.4
0.2
0.0
-0.2
-0.4

2016

2017

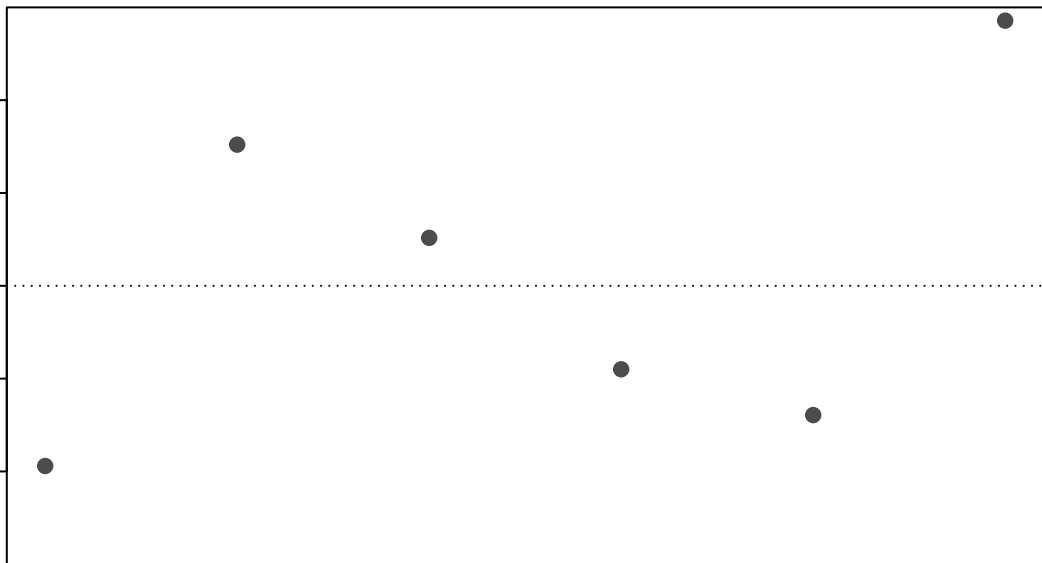
2018

2019

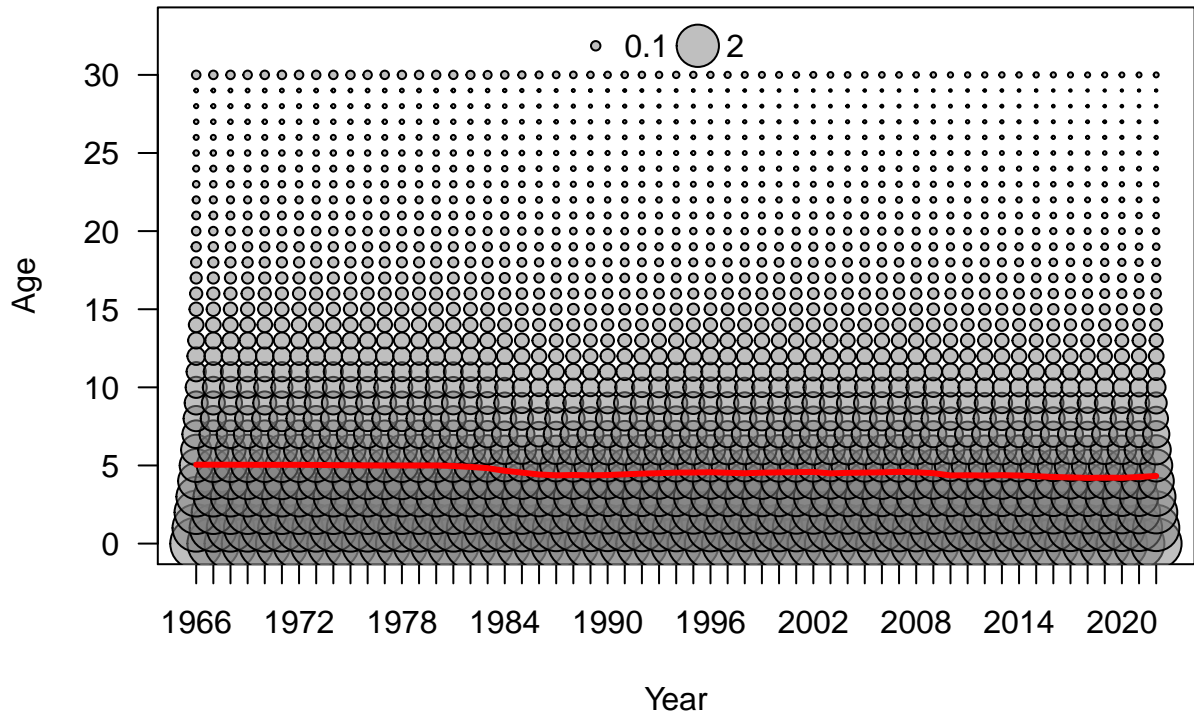
2020

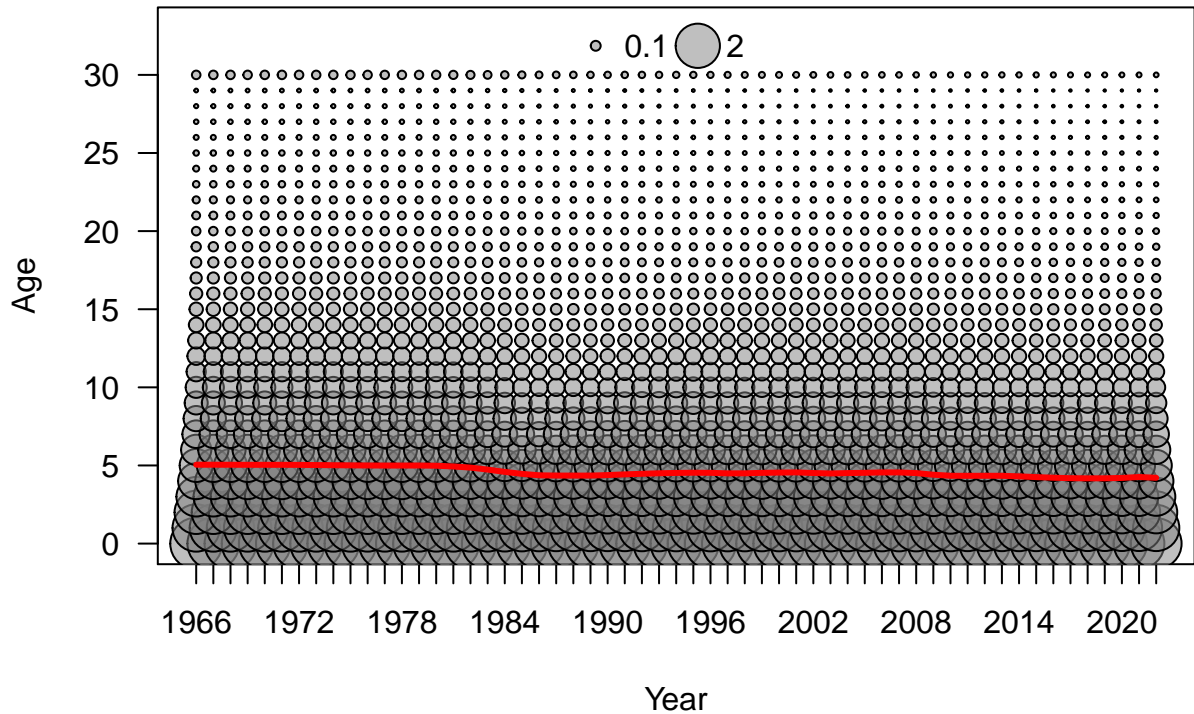
2021

Year

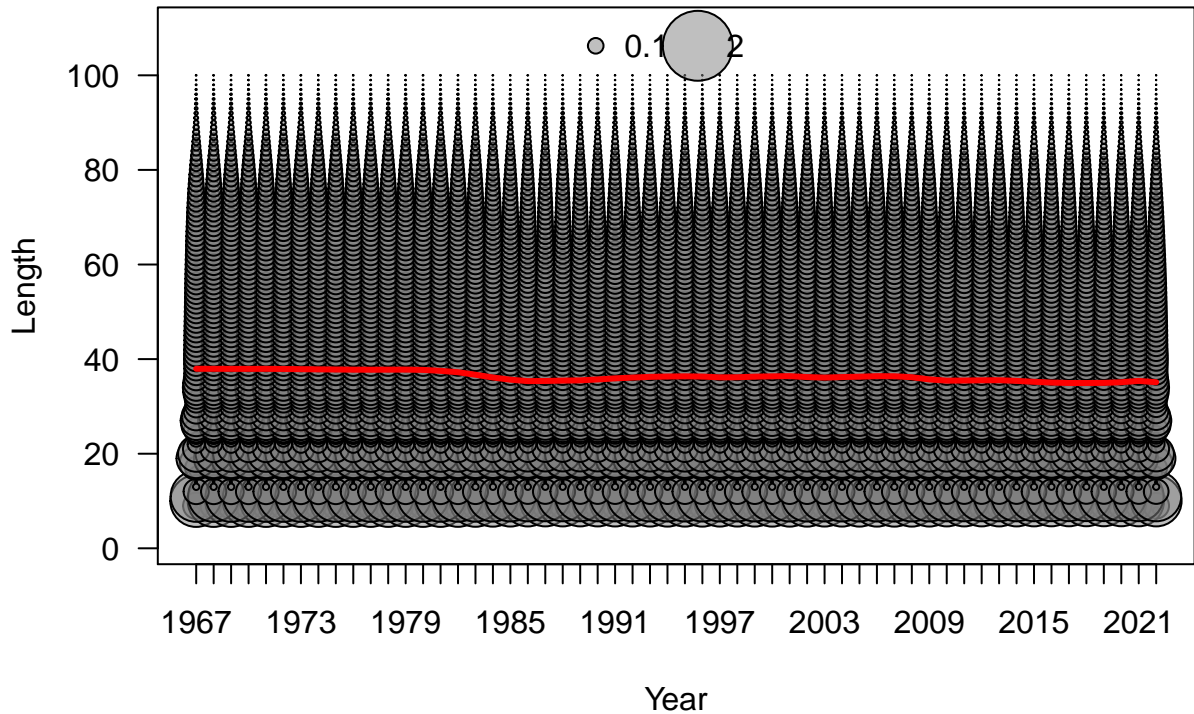










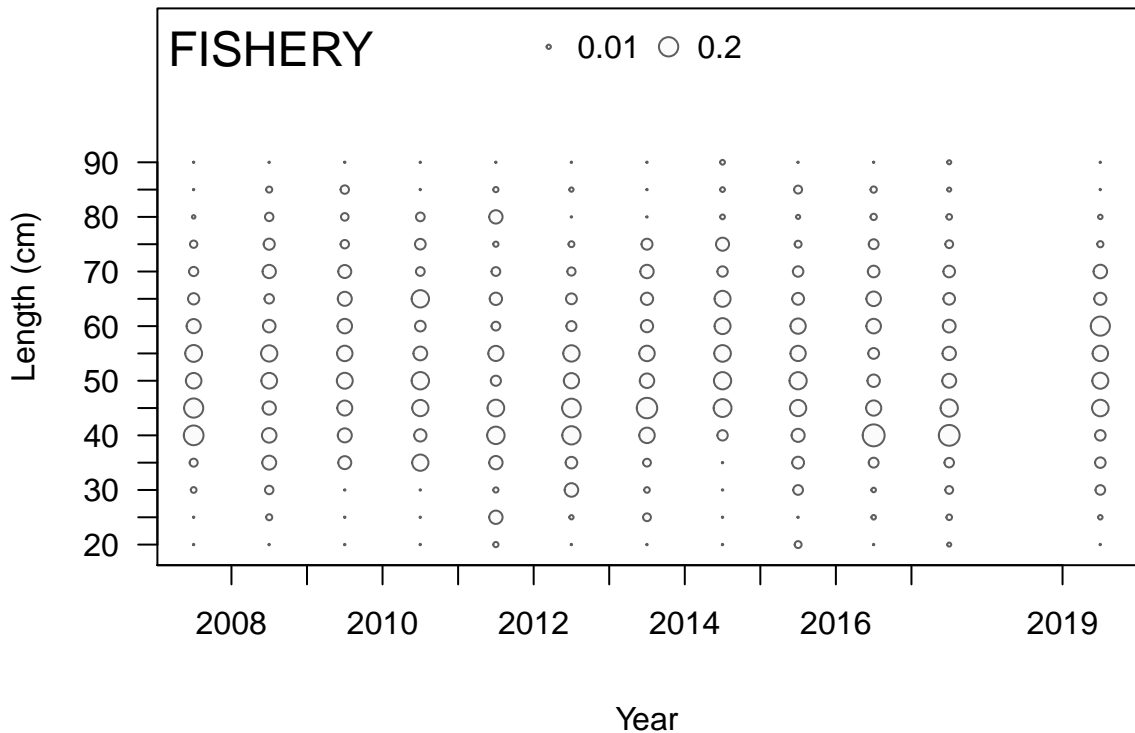




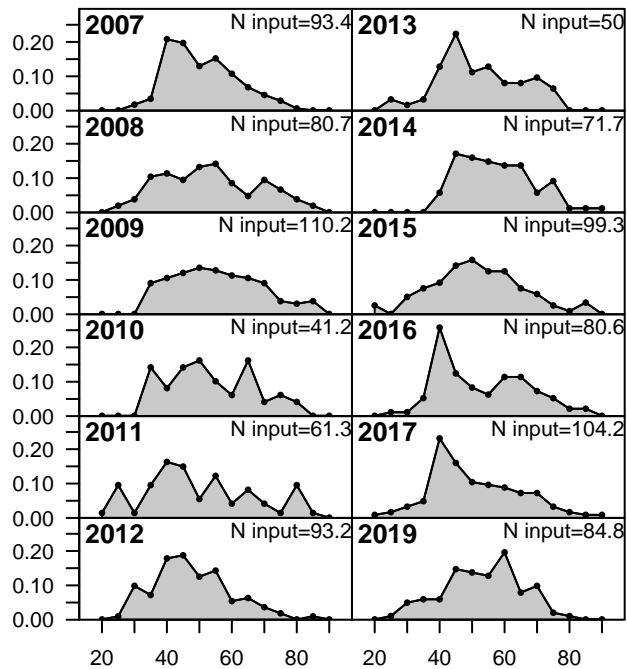
FISHERY

Sum of N input=970.8





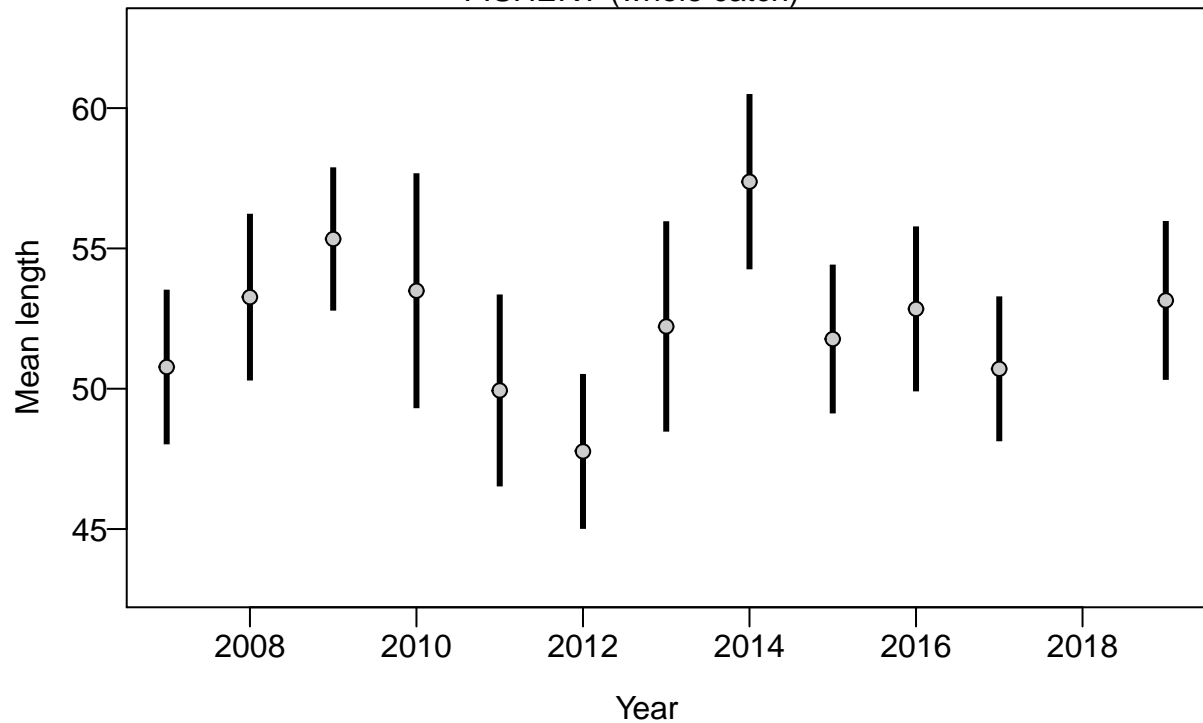
Proportion



Length (cm)



FISHERY (whole catch)



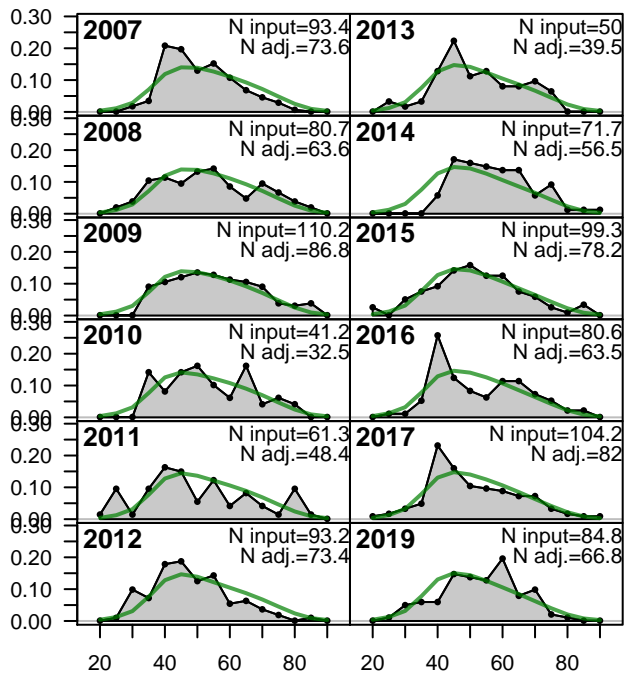
FISHERY

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

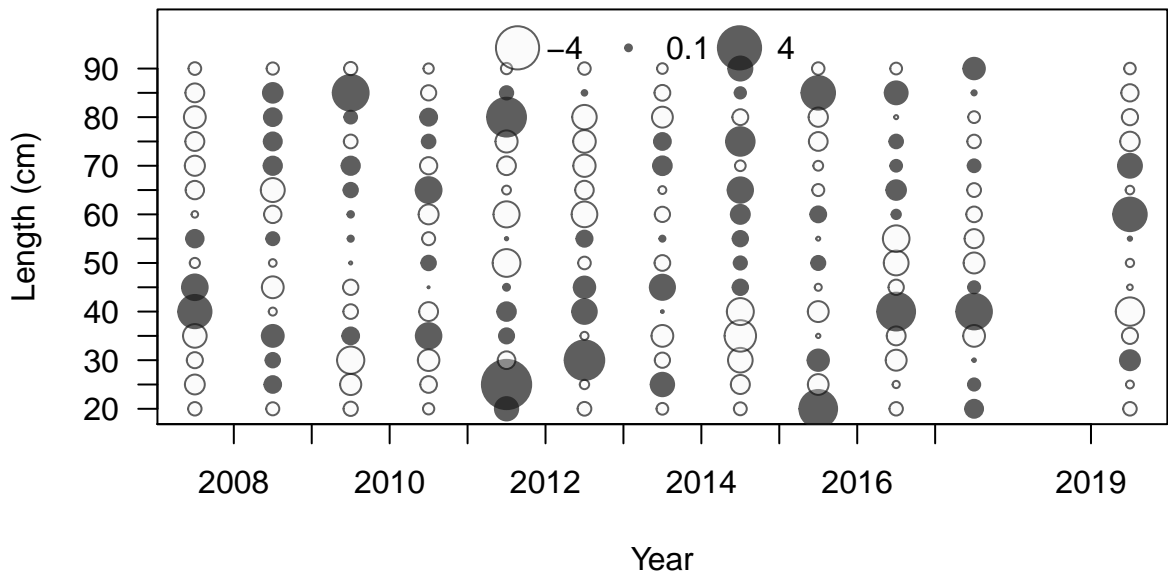




Proportion



Length (cm)



FISHERY (whole catch)

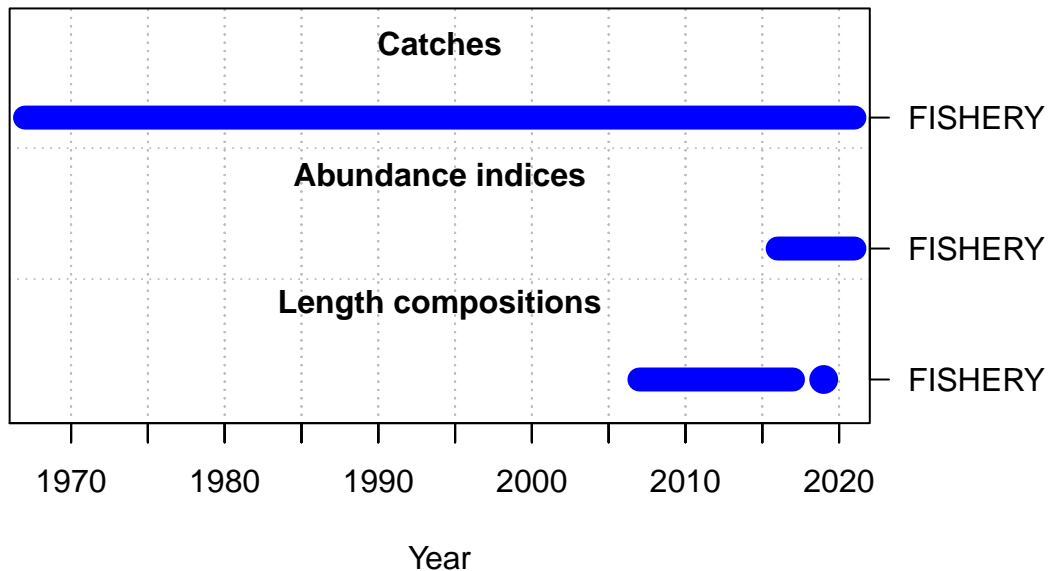


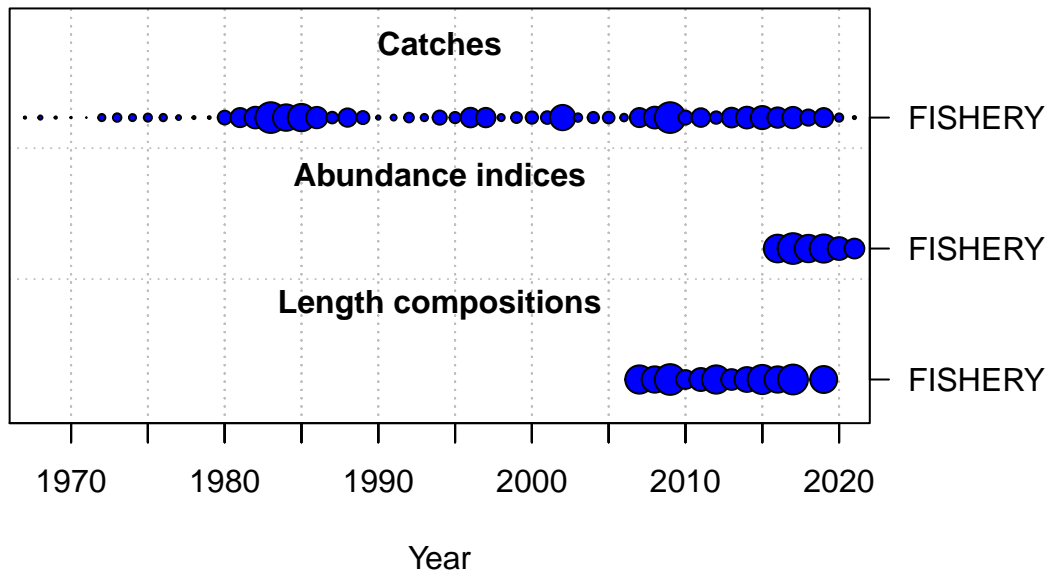




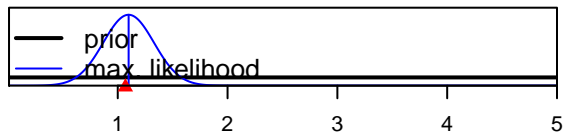




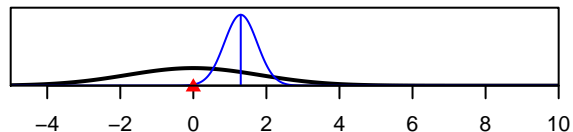




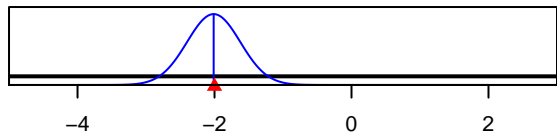
SR_LN(R0)



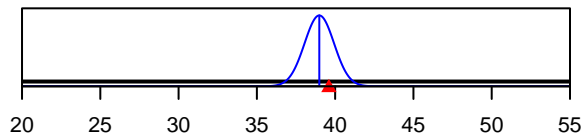
ln(DM_theta)_1



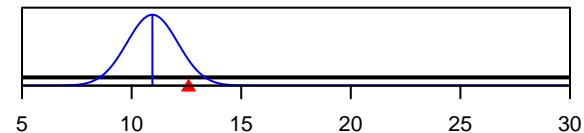
LnQ_base_FISHERY(1)



Size_inflection_FISHERY(1)



Size_95%width_FISHERY(1)



Parameter value