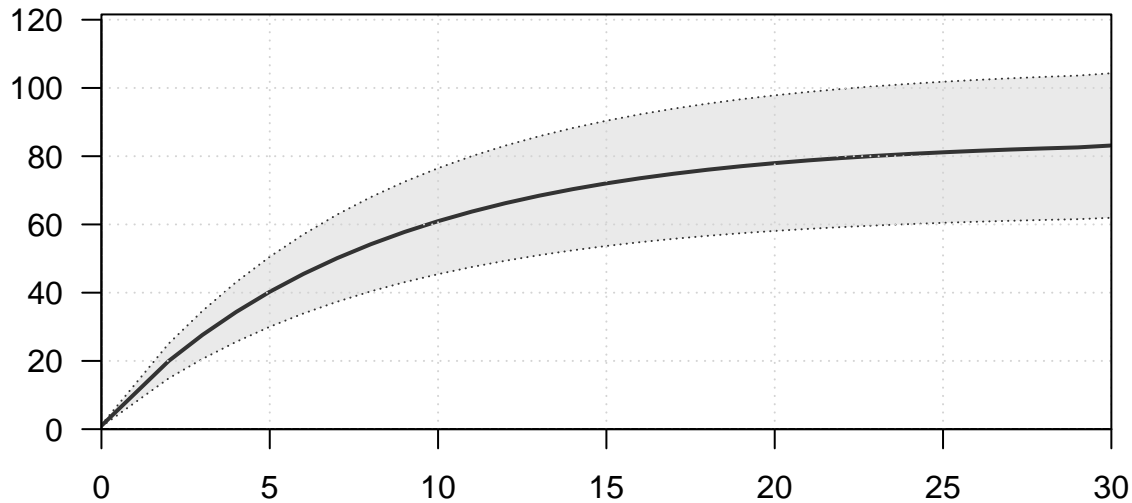
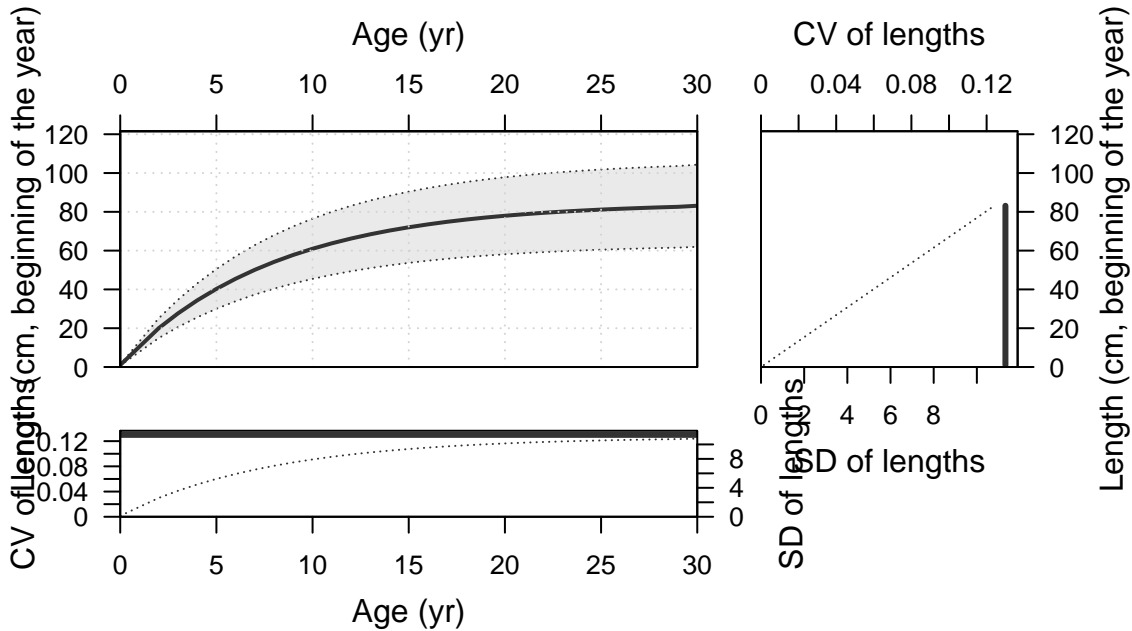


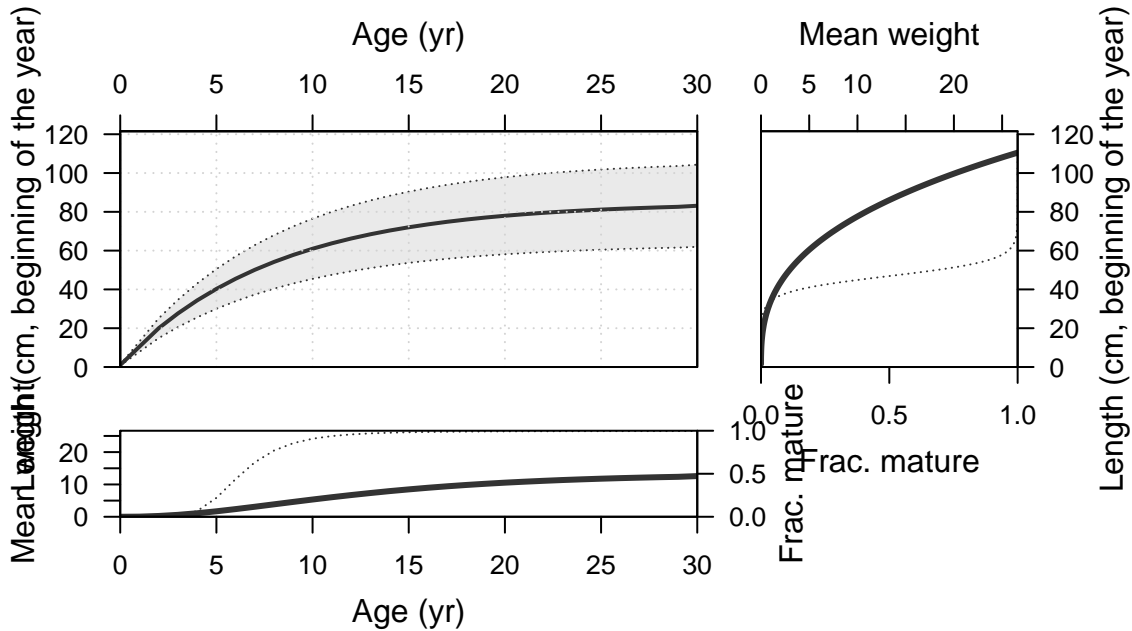
Plots created using the 'r4ss' package in R
Stock Synthesis version: 3.30.19.0
StartTime: Mon Jul 11 15:25:31 2022
Data_File: data.ss
Control_File: control.ss

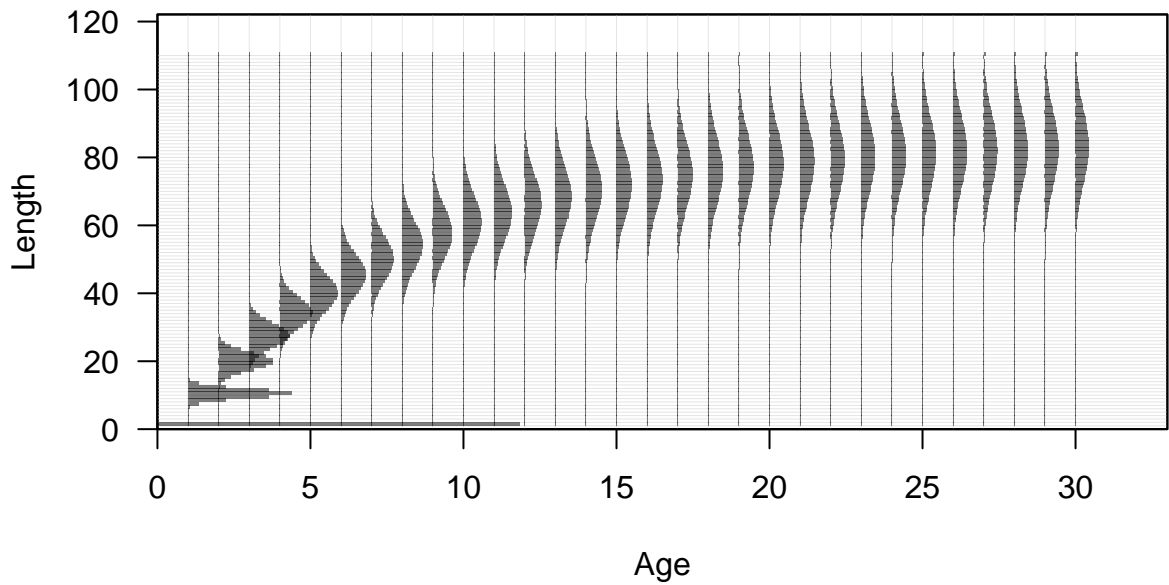
Length (cm, beginning of the year)

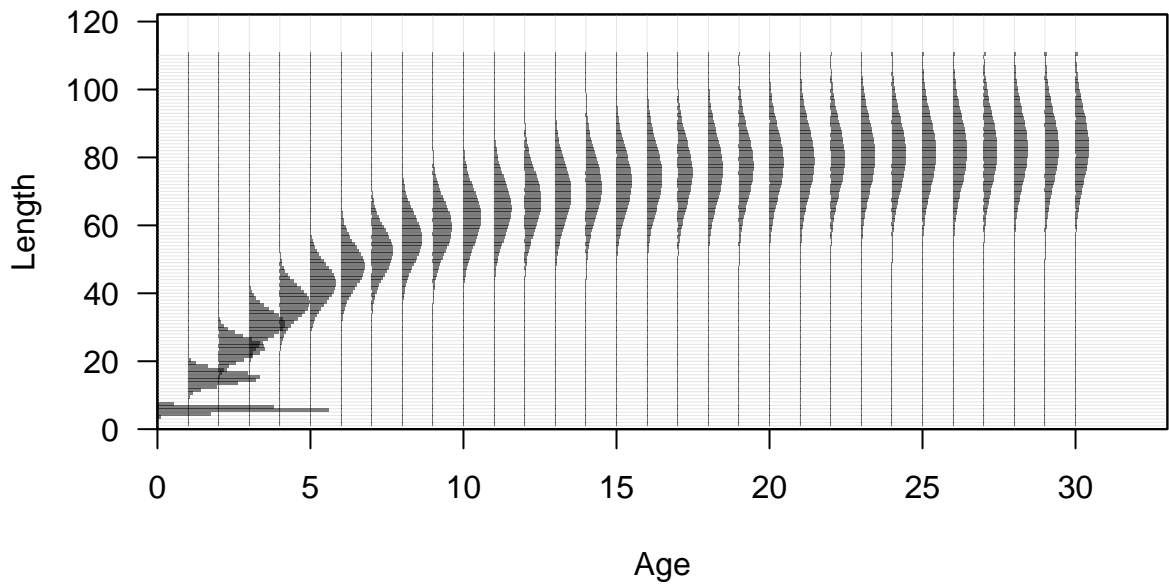


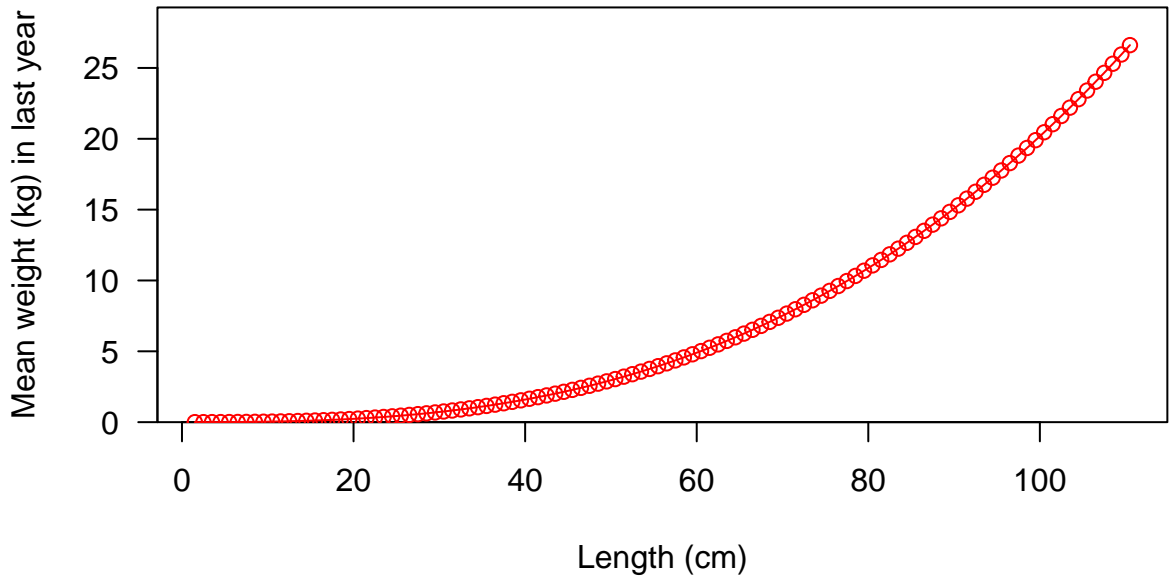
Age (yr)

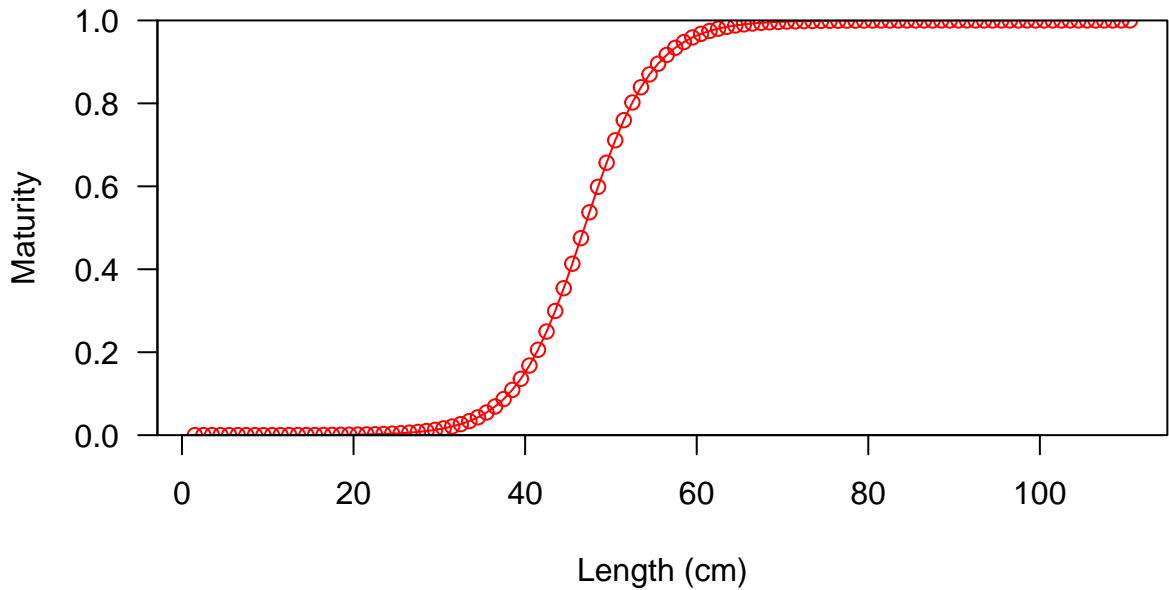


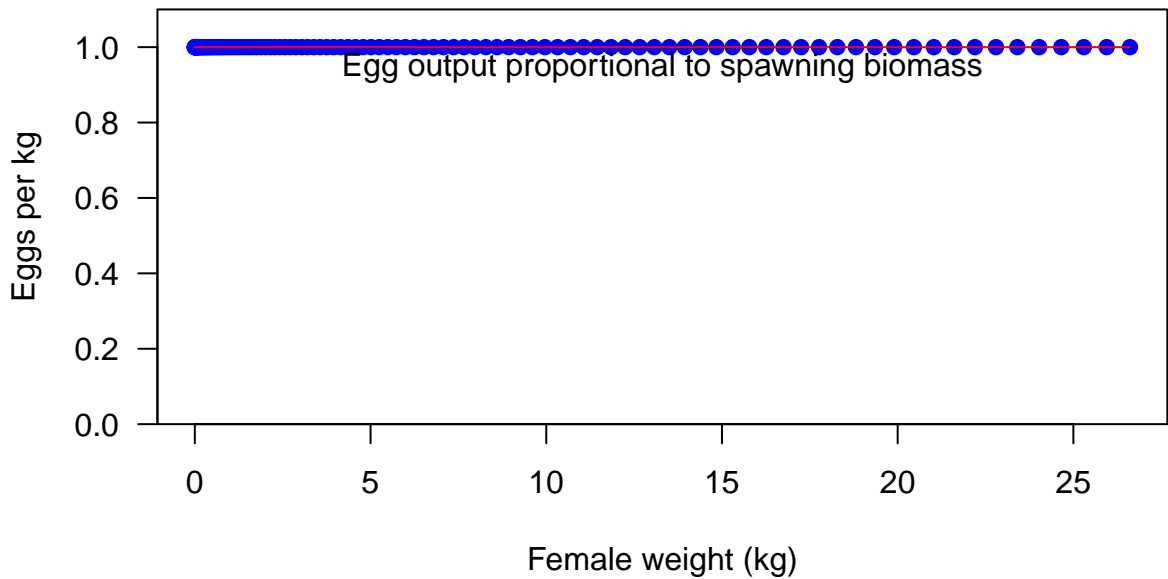


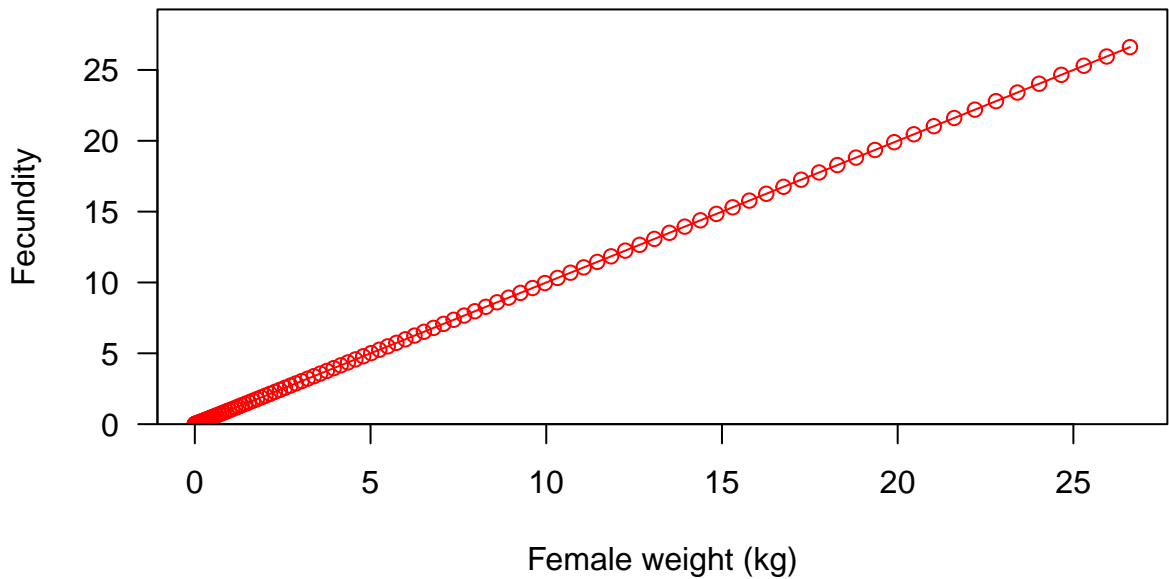




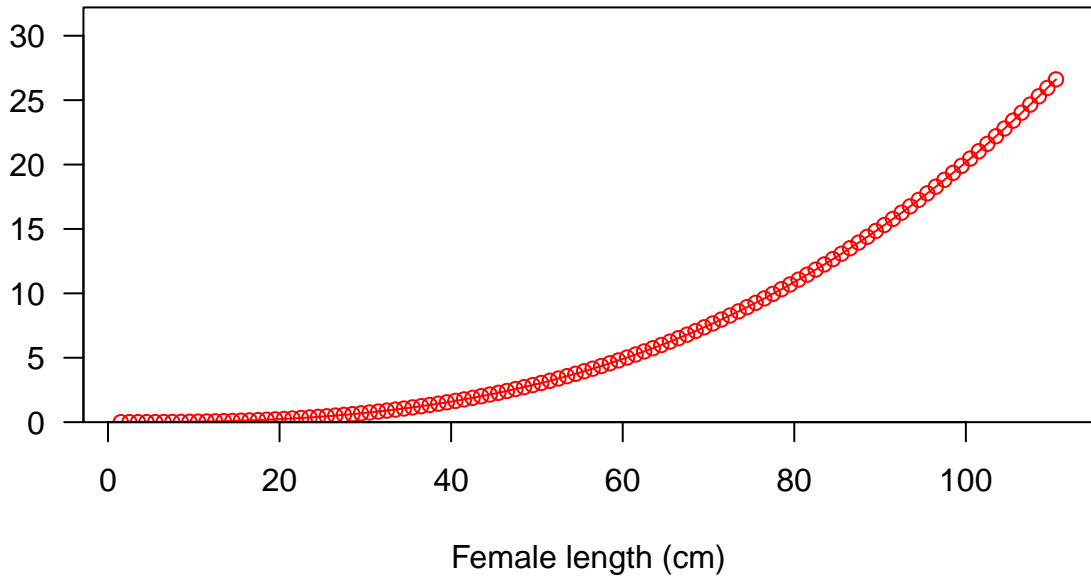








Fecundity



Spawning output

25
20
15
10
5
0

0

20

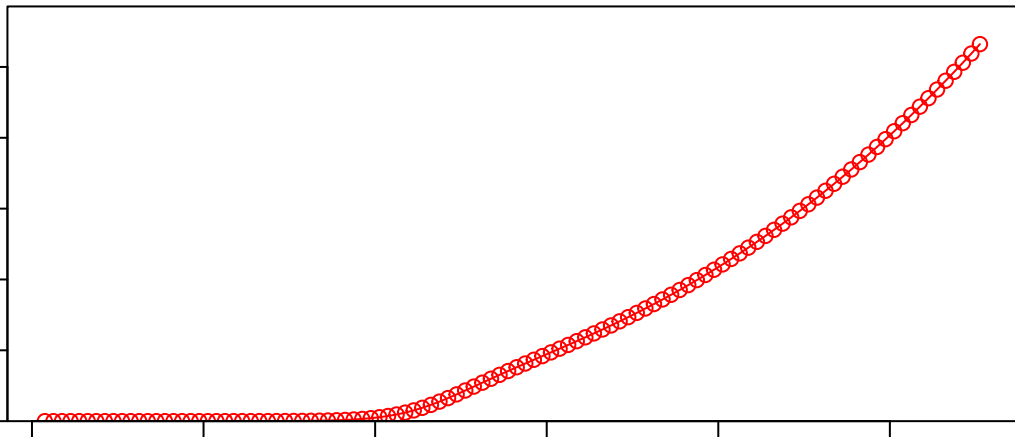
40

60

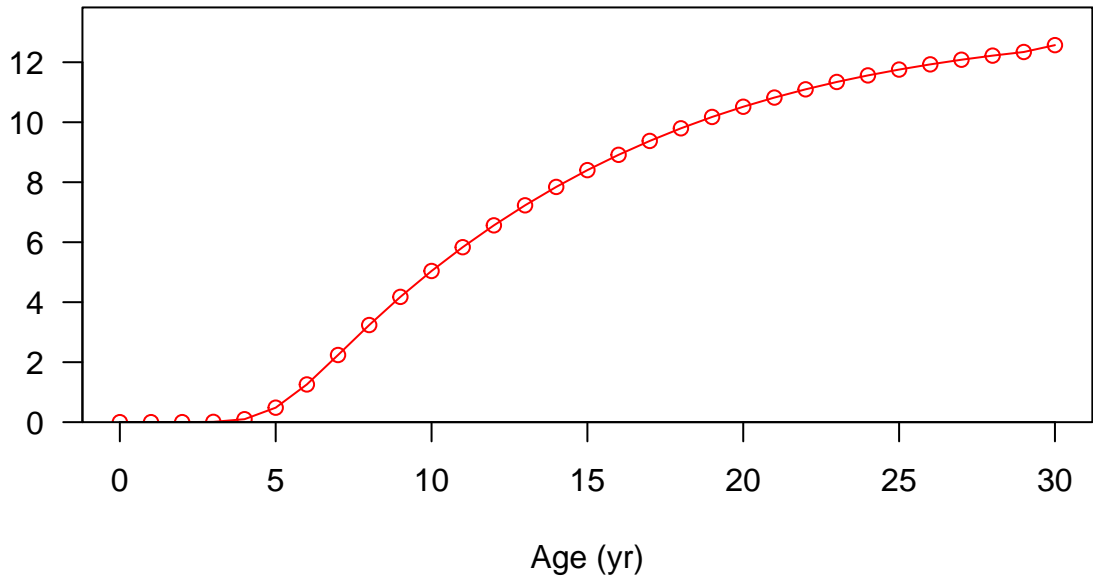
80

100

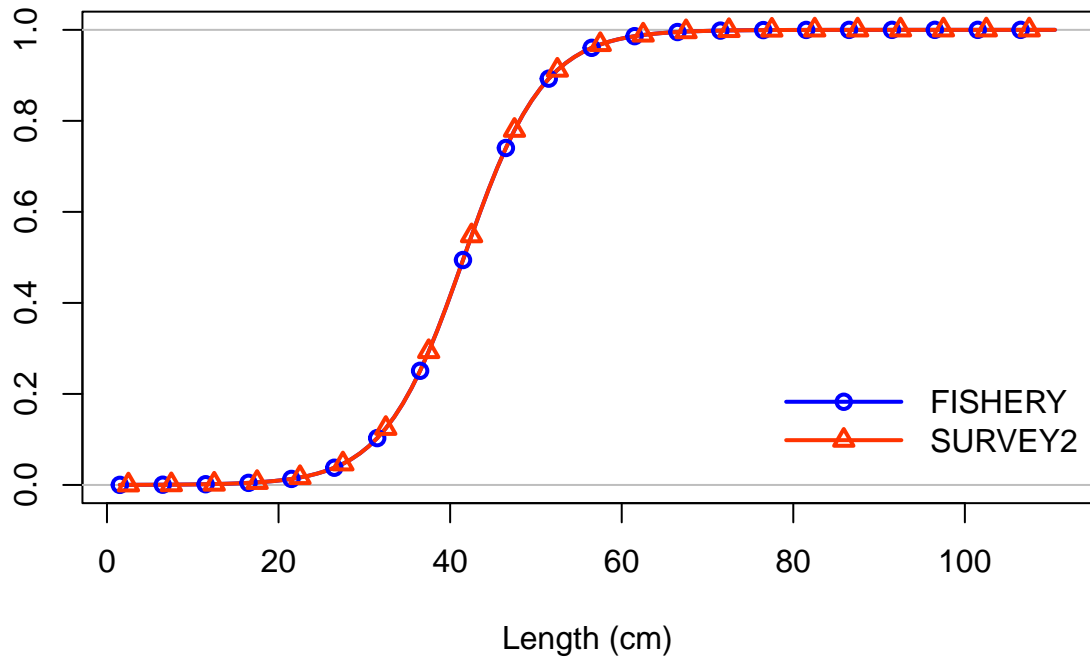
Length (cm)



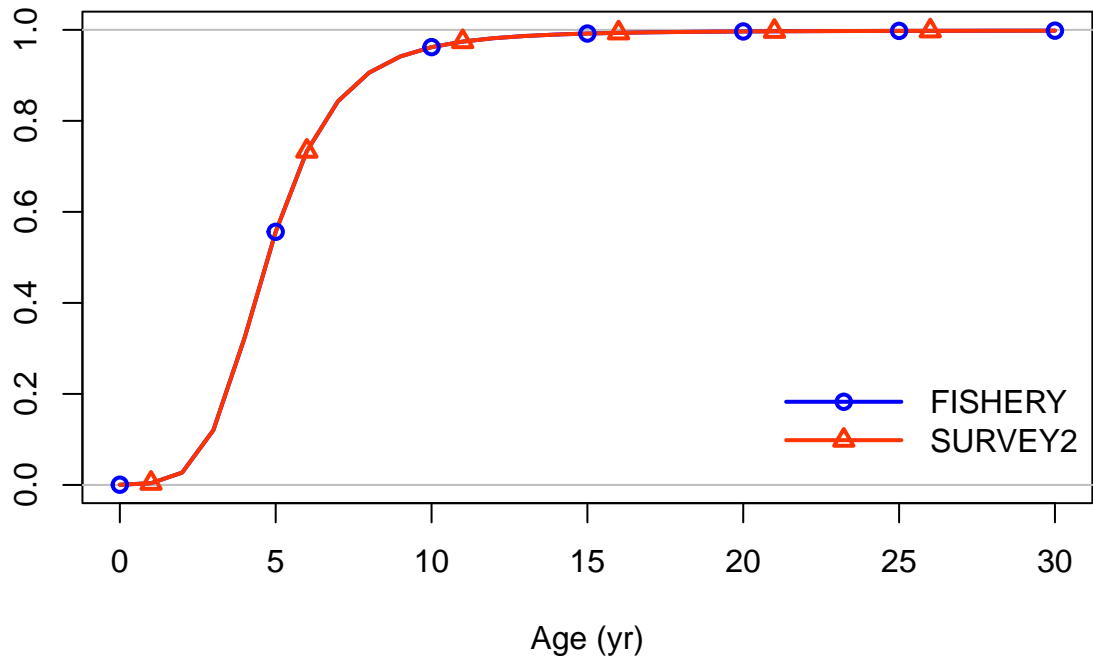
Spawning output



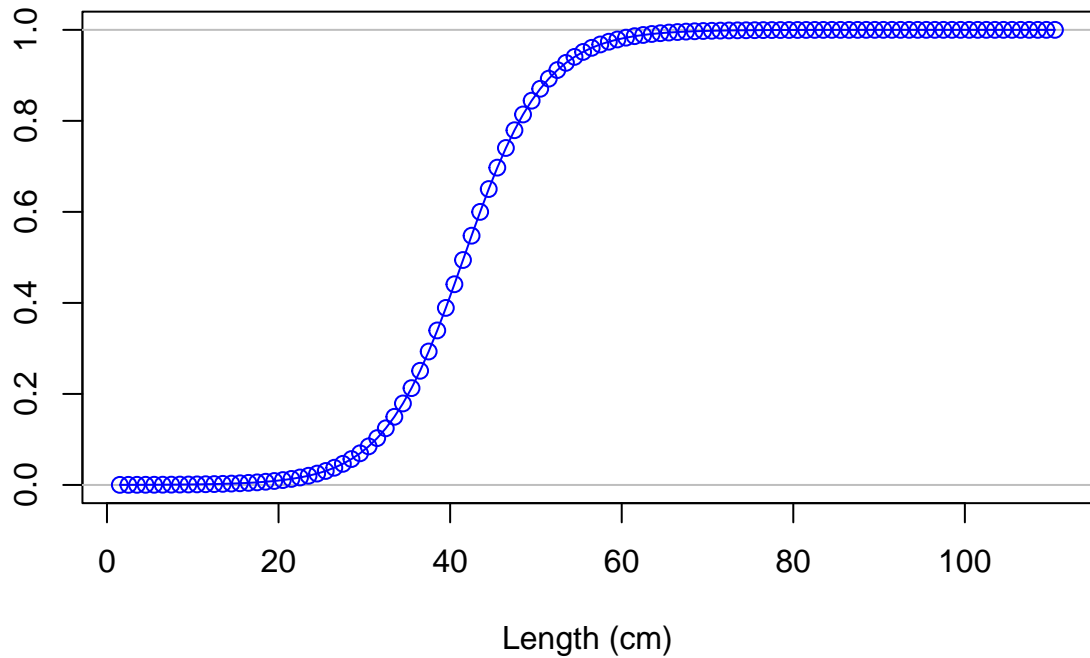
Selectivity



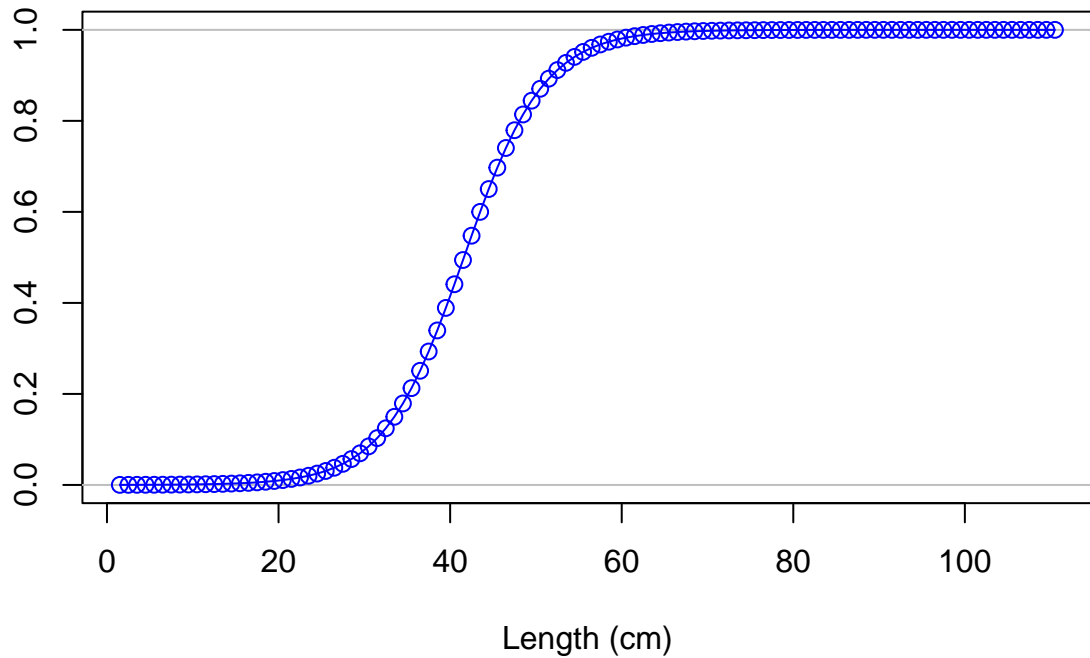
Selectivity

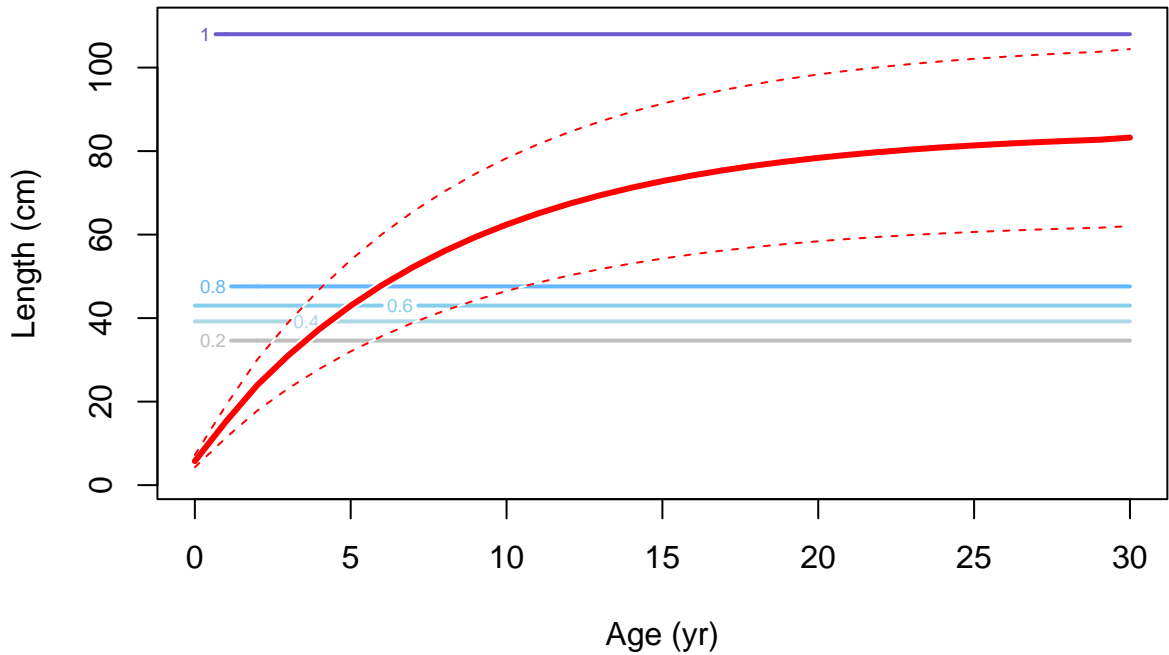


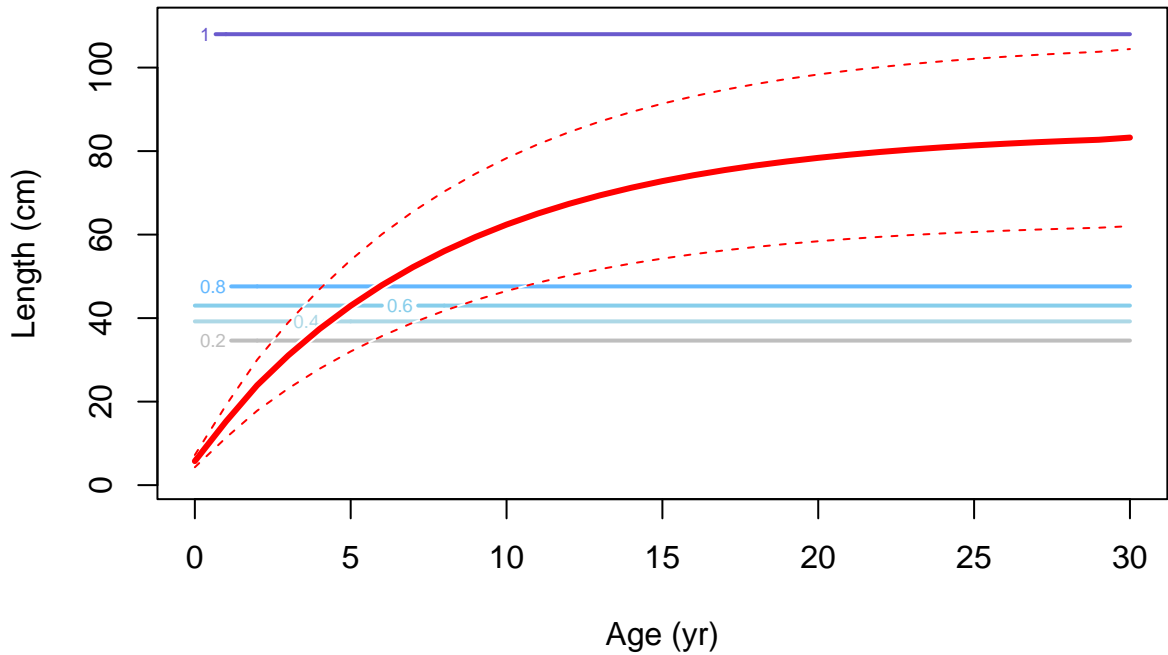
Selectivity



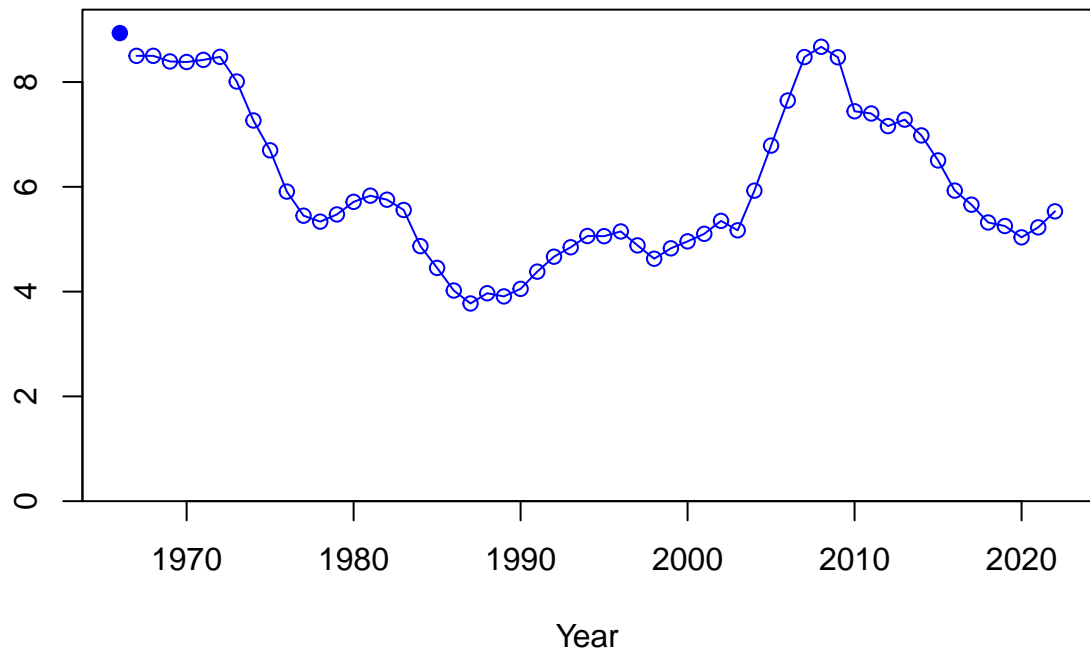
Selectivity



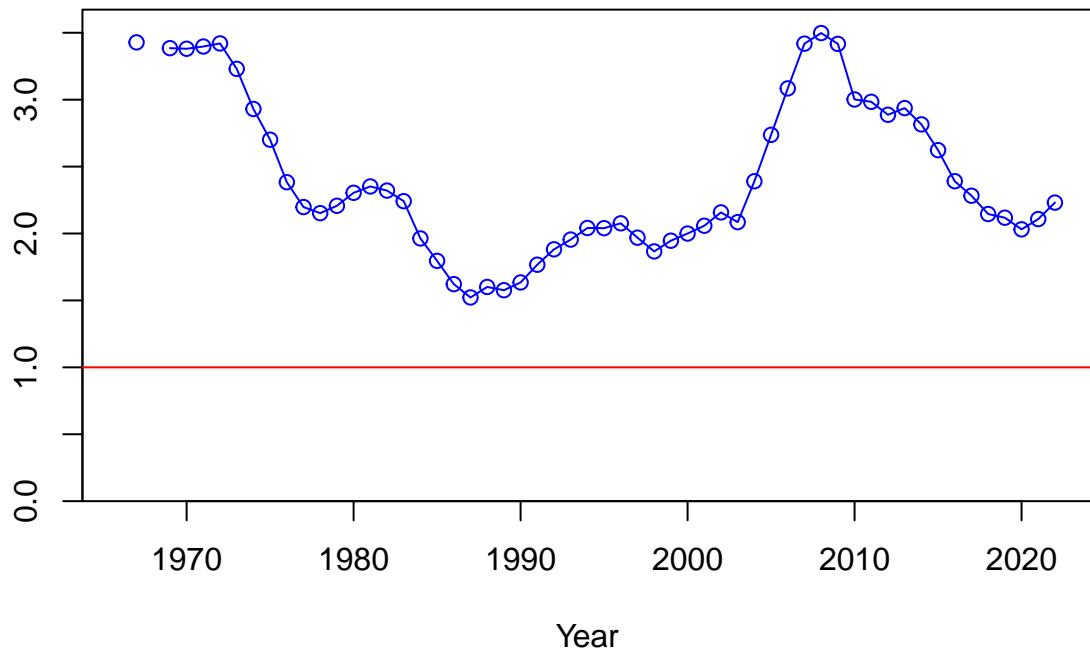


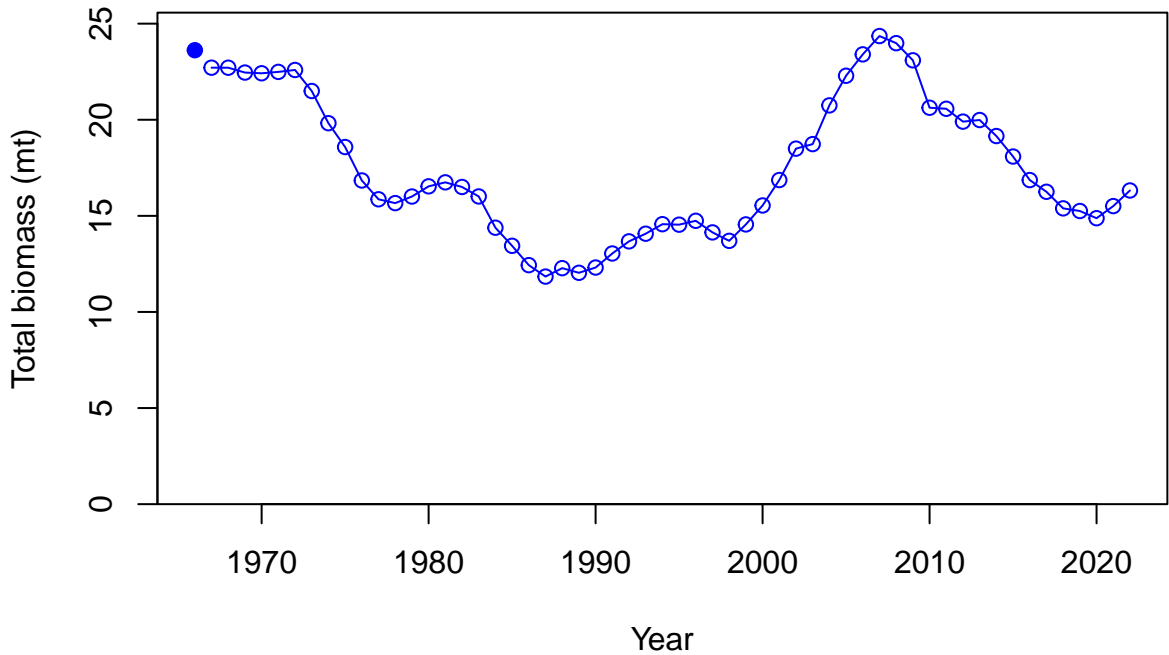


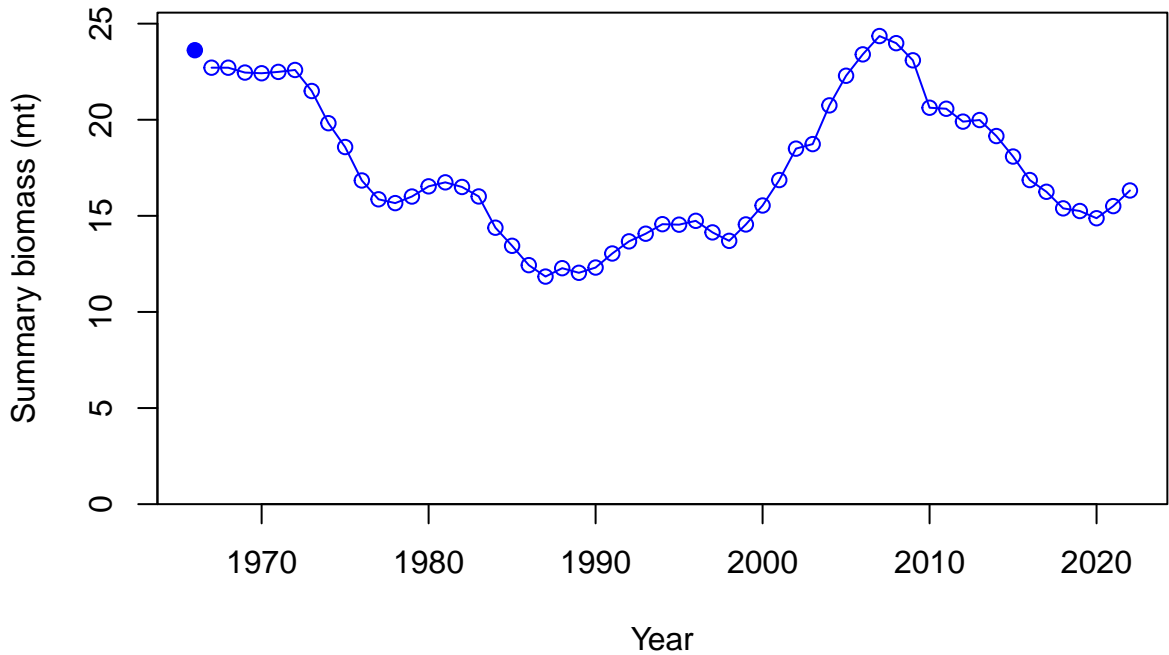
Spawning biomass (mt)



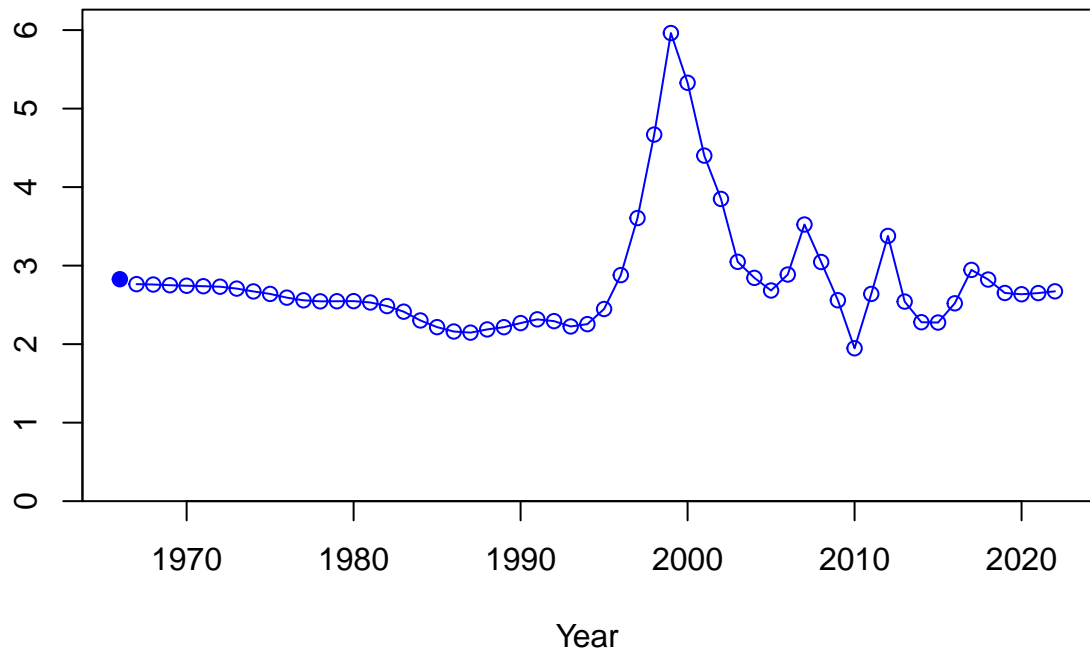
Relative spawning biomass: B/B_{MSY}



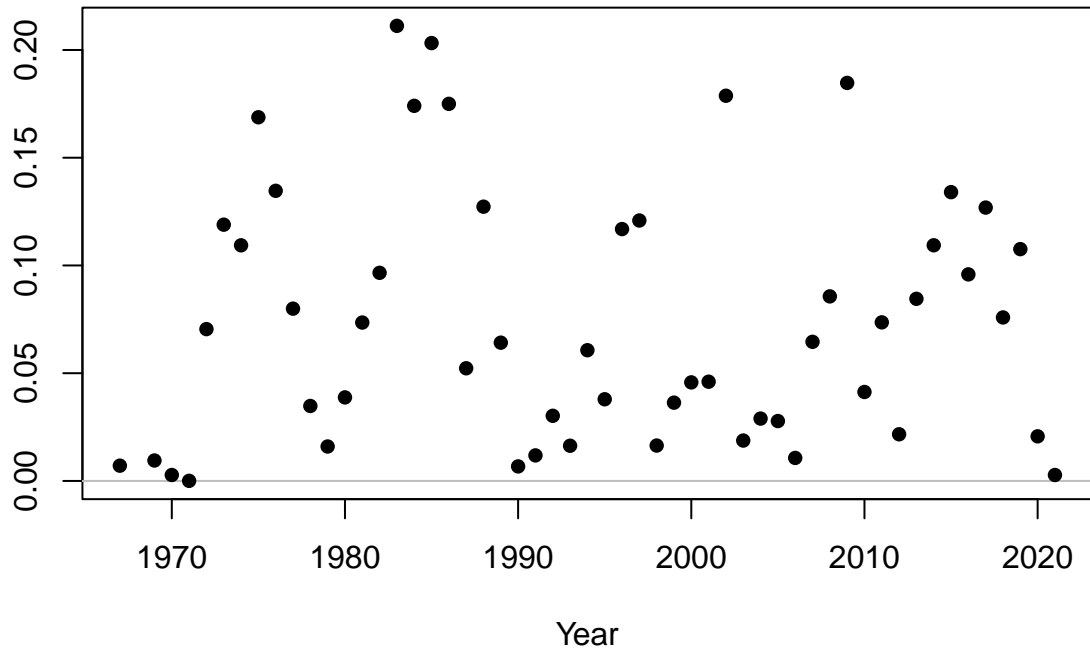


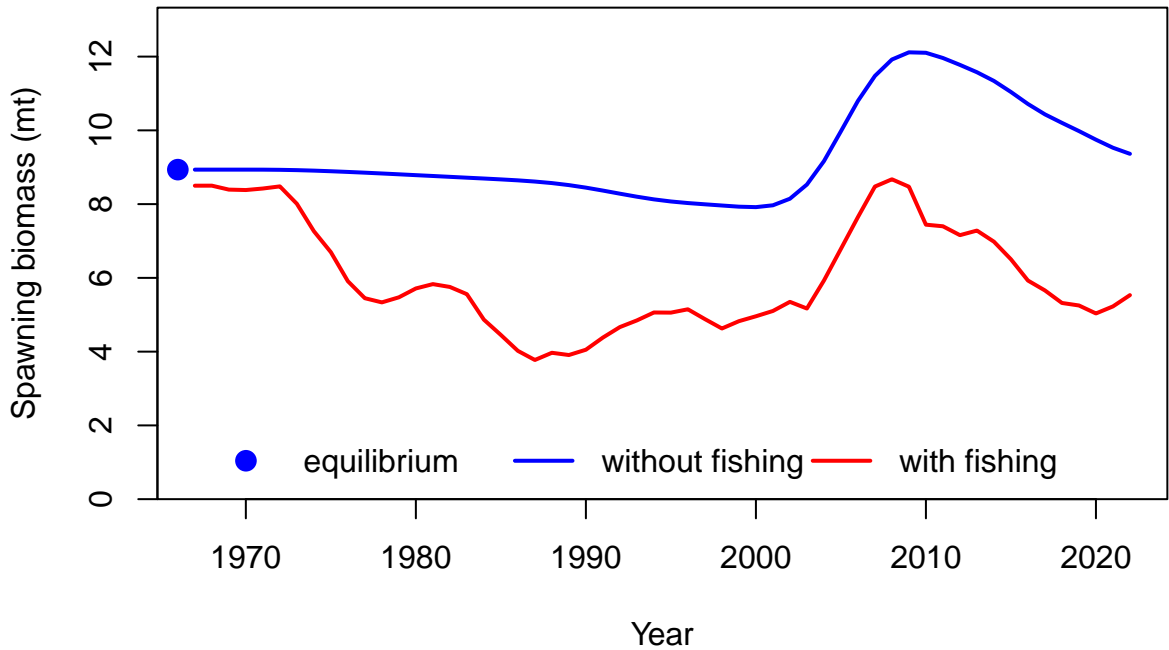


Age-0 recruits (1,000s)

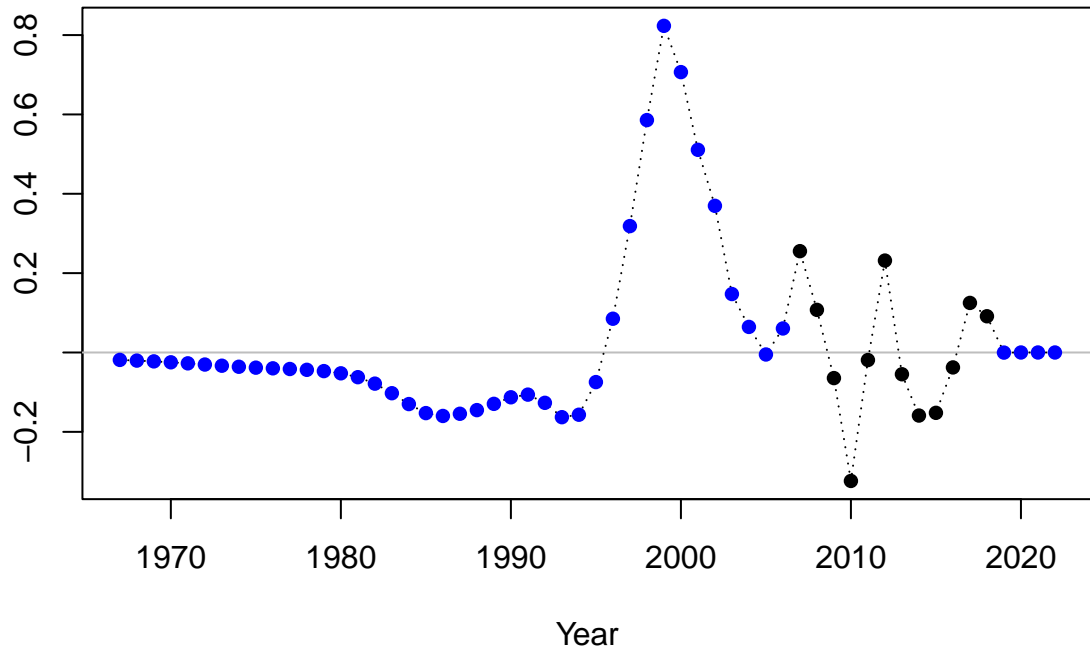


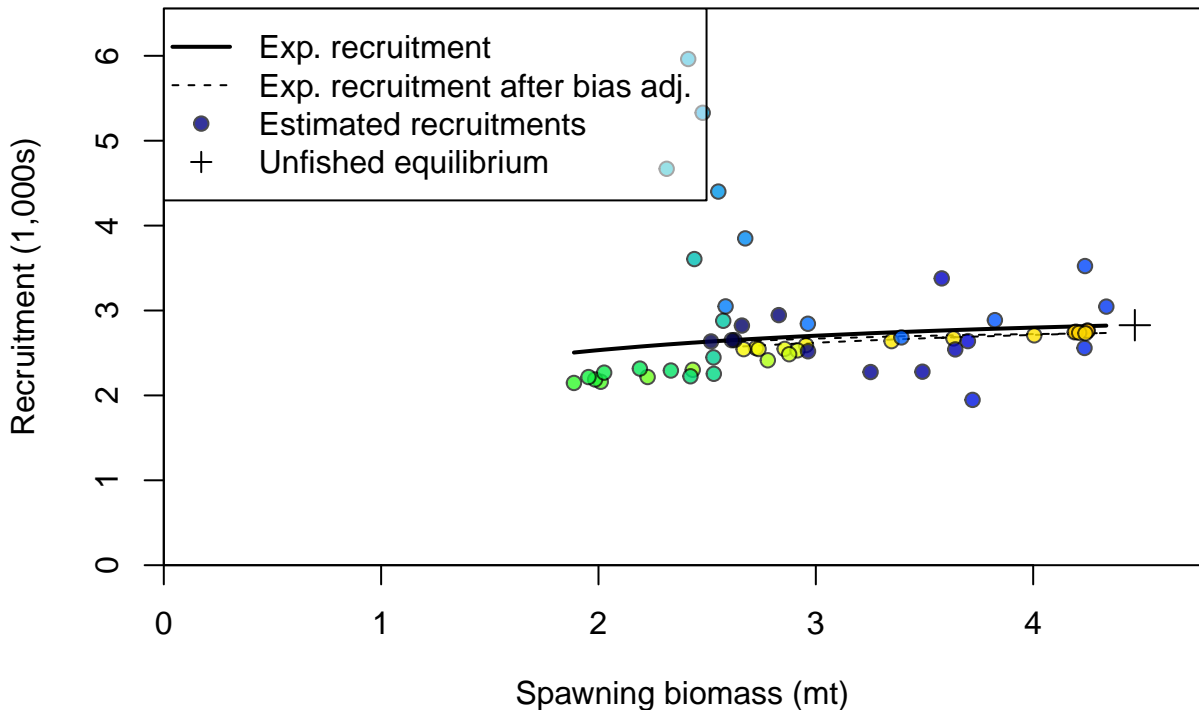
Summary Fishing Mortality

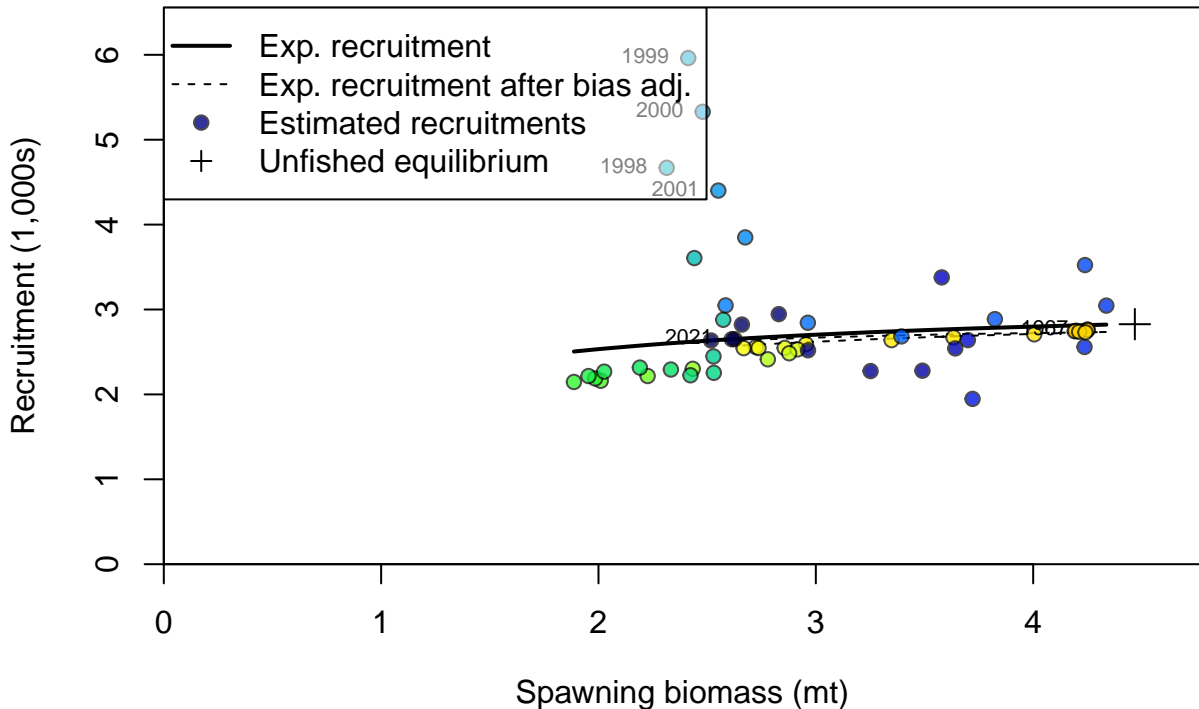


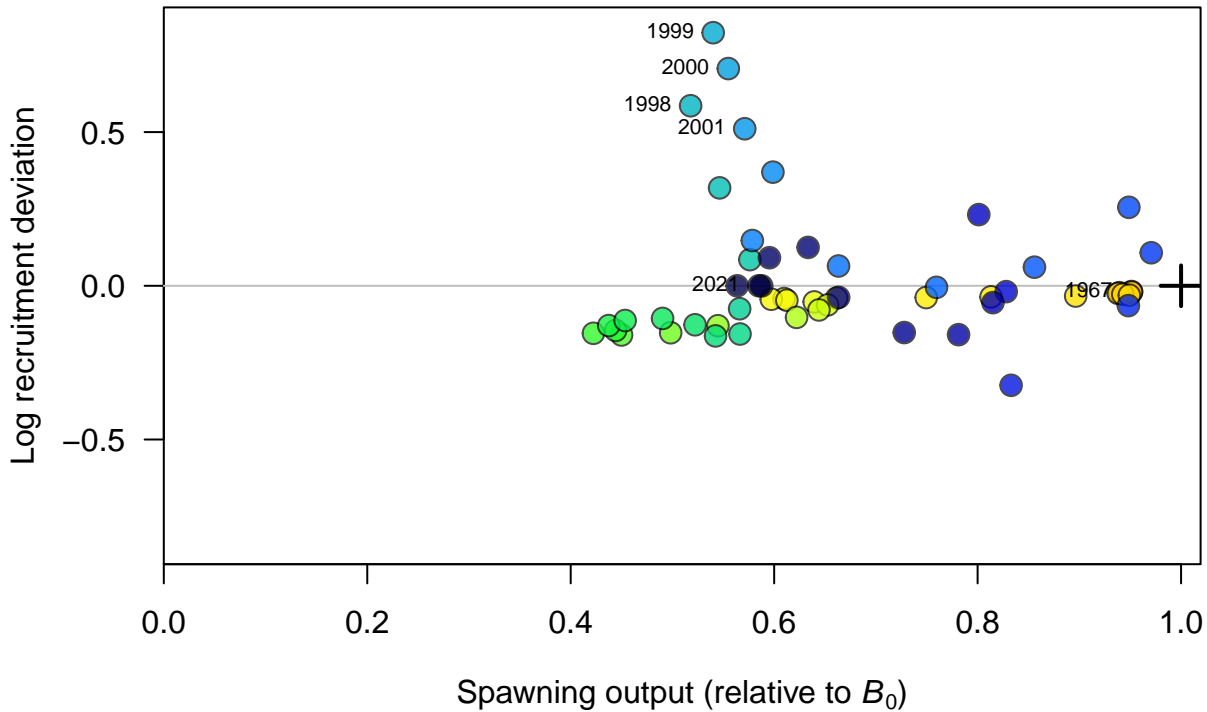


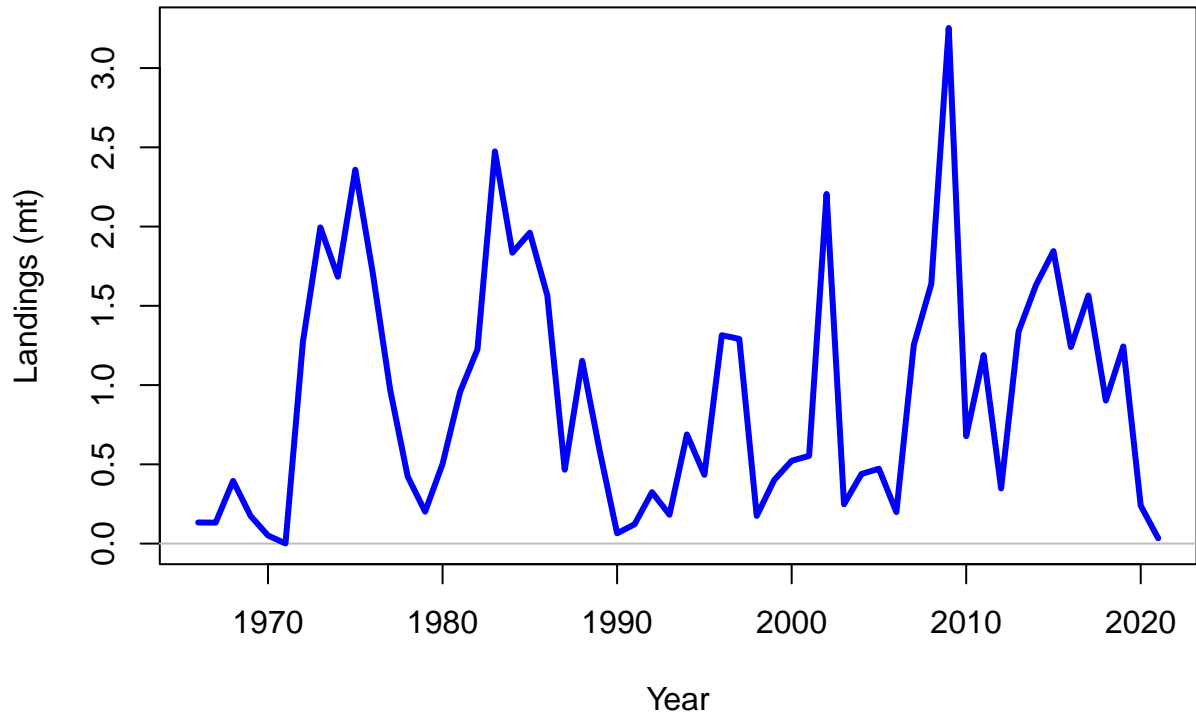
Log recruitment deviation

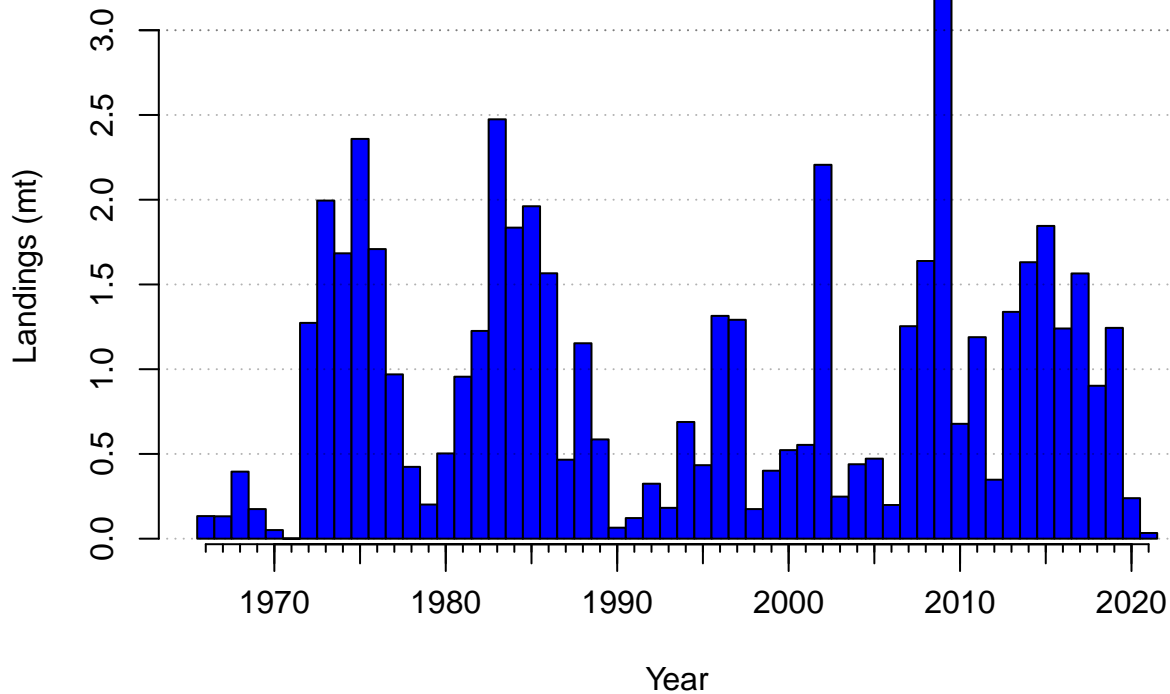


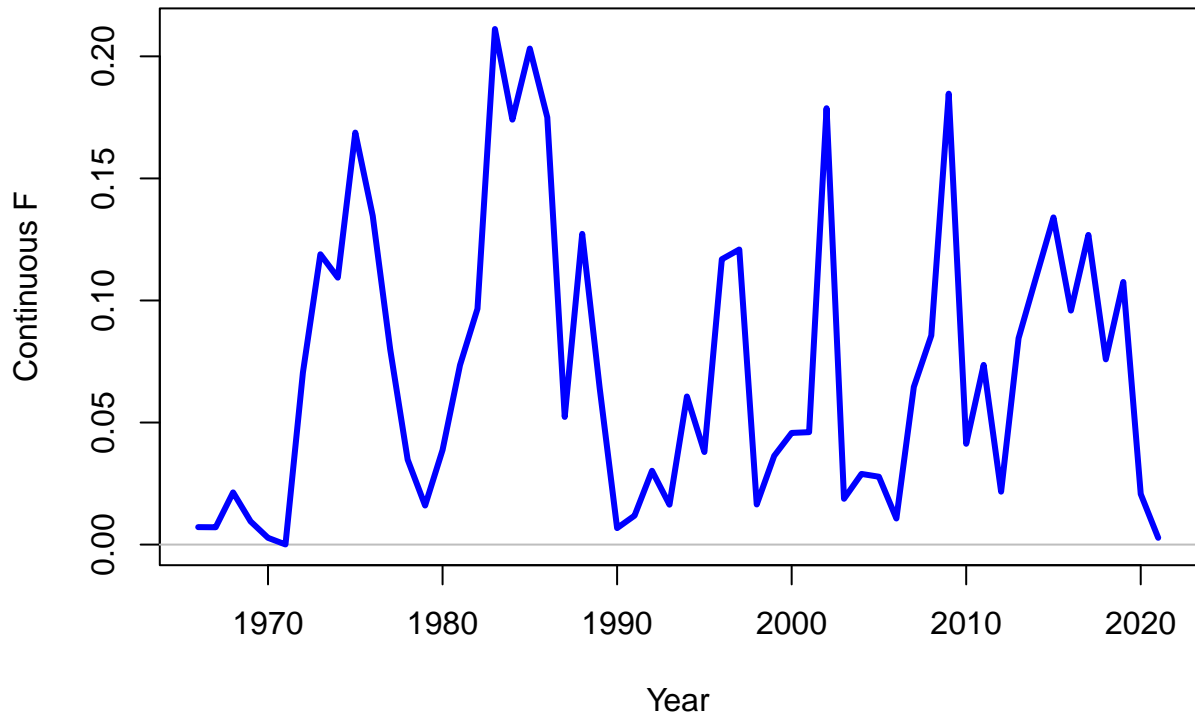




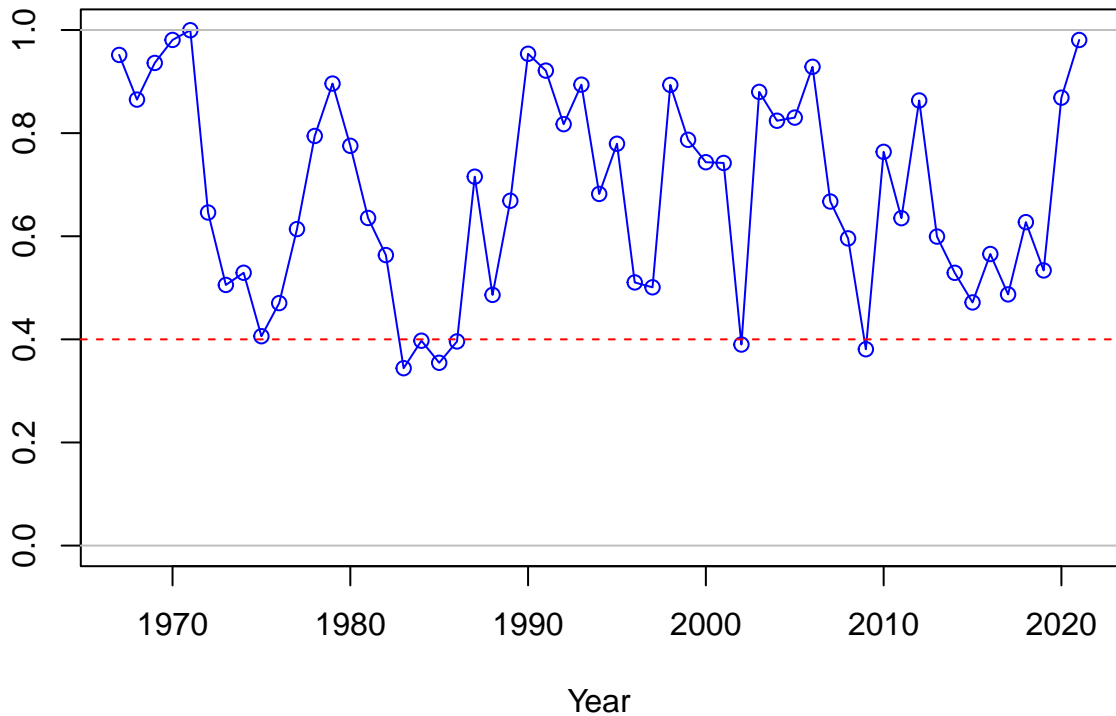


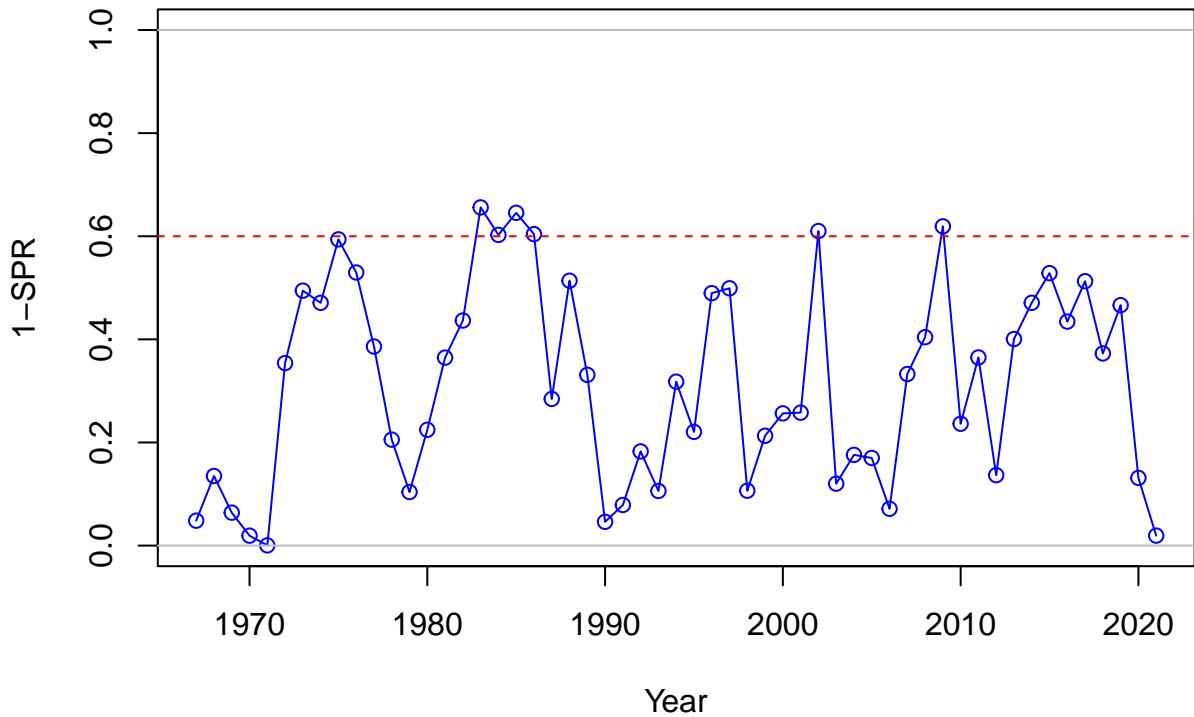




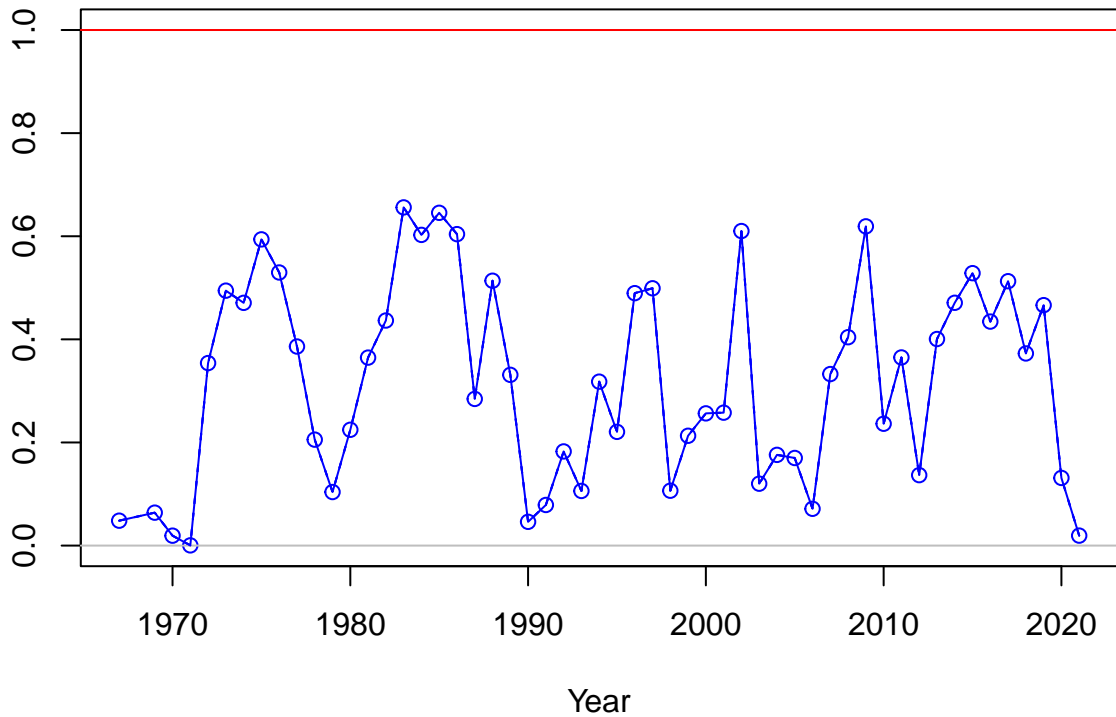


SPR

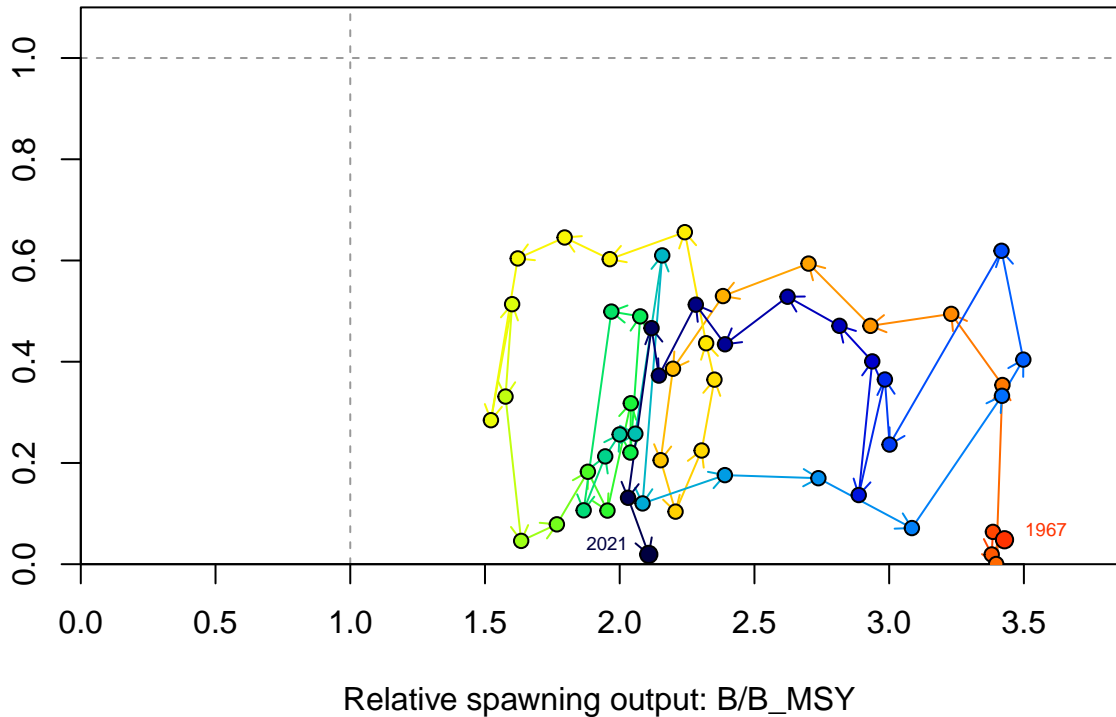




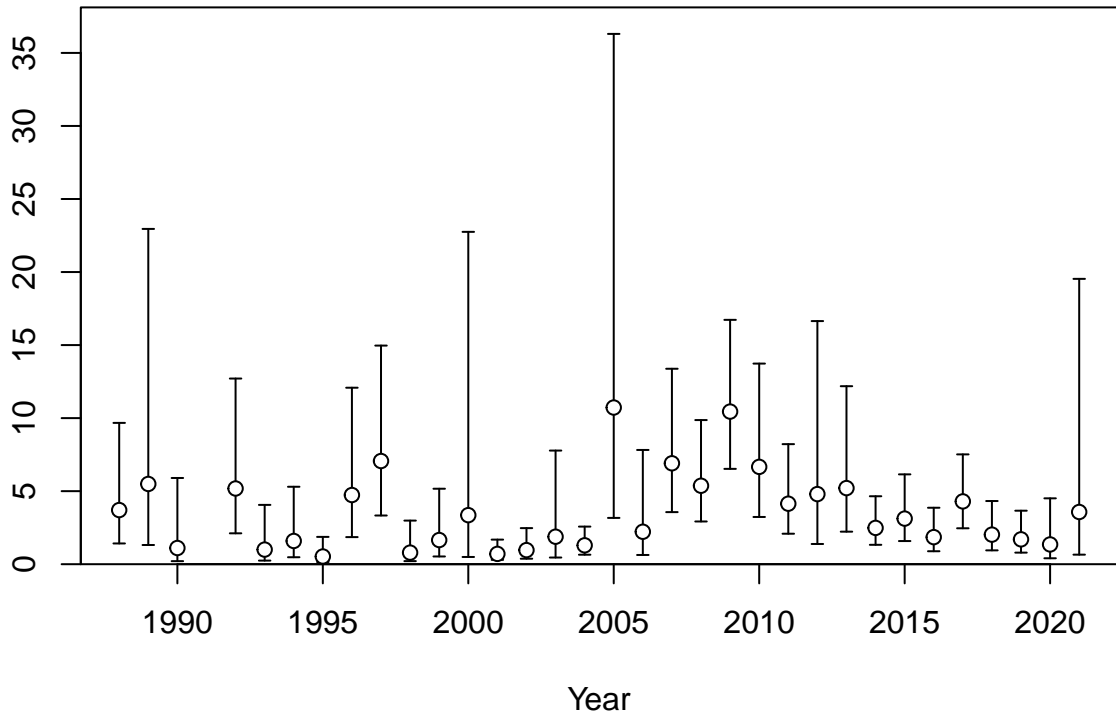
Fishing intensity: 1-SPR



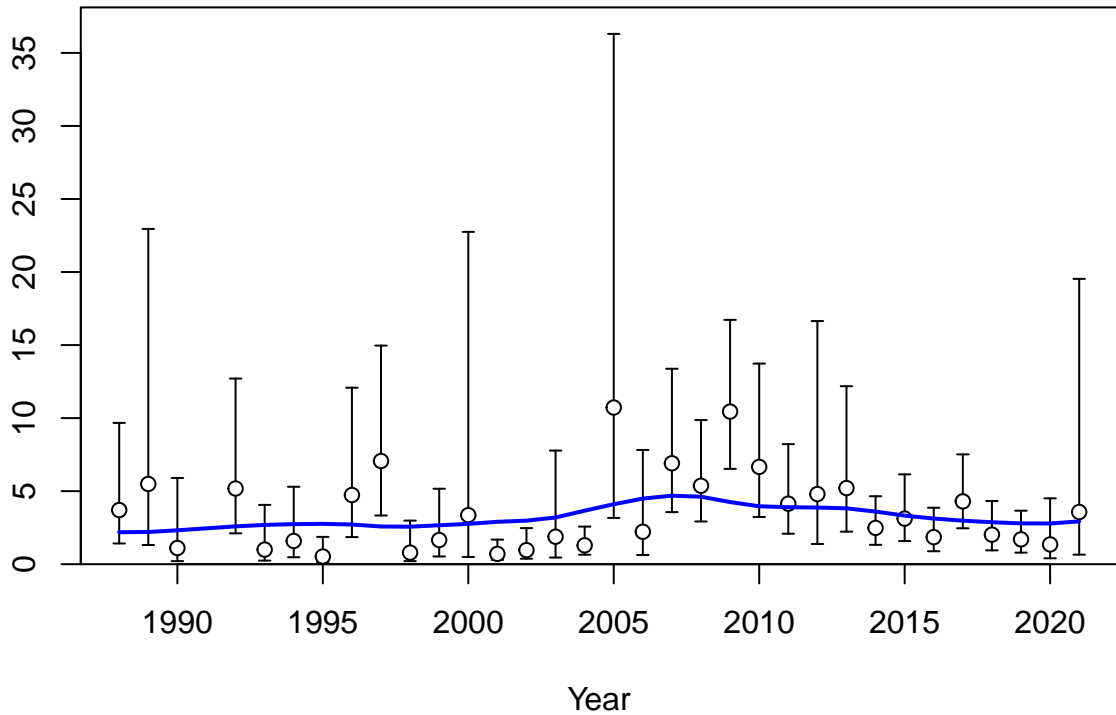
Fishing intensity: 1-SPR

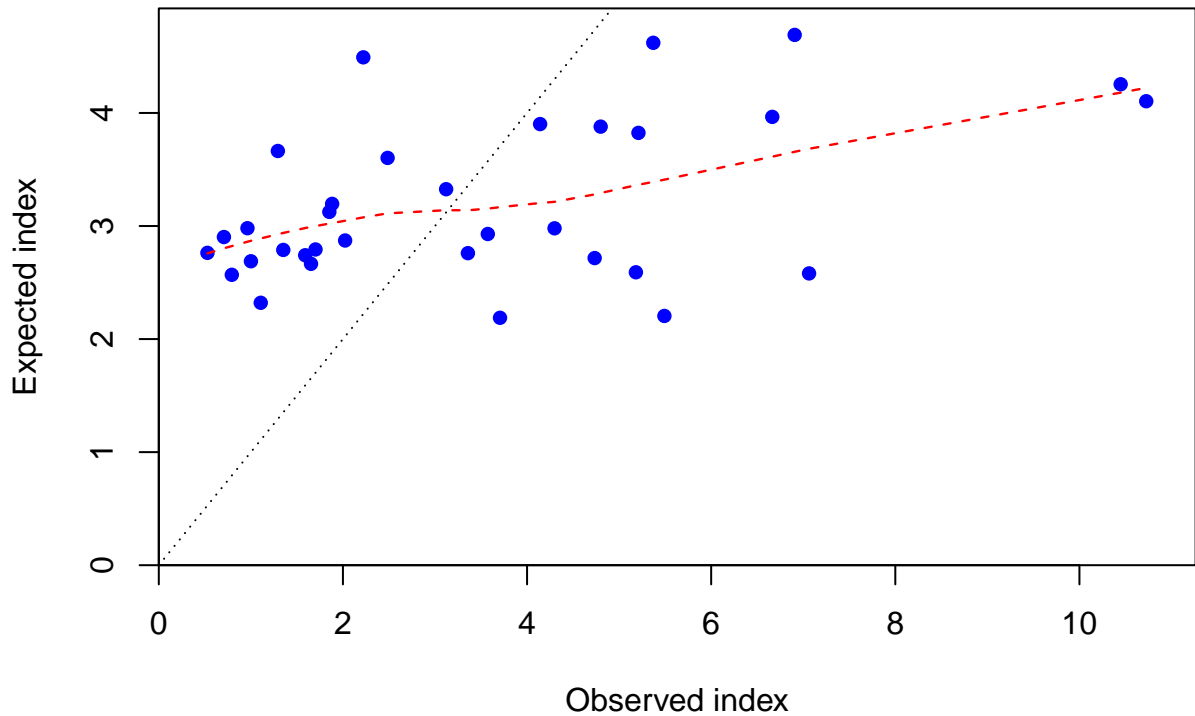


Index



Index





Log index

3
2
1
0
-1
-2

1990

1995

2000

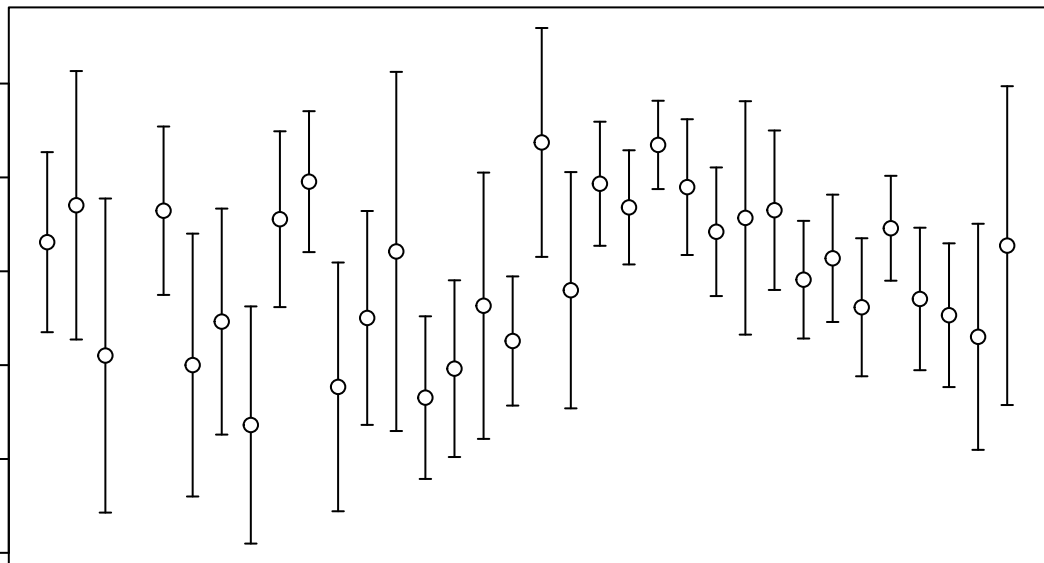
2005

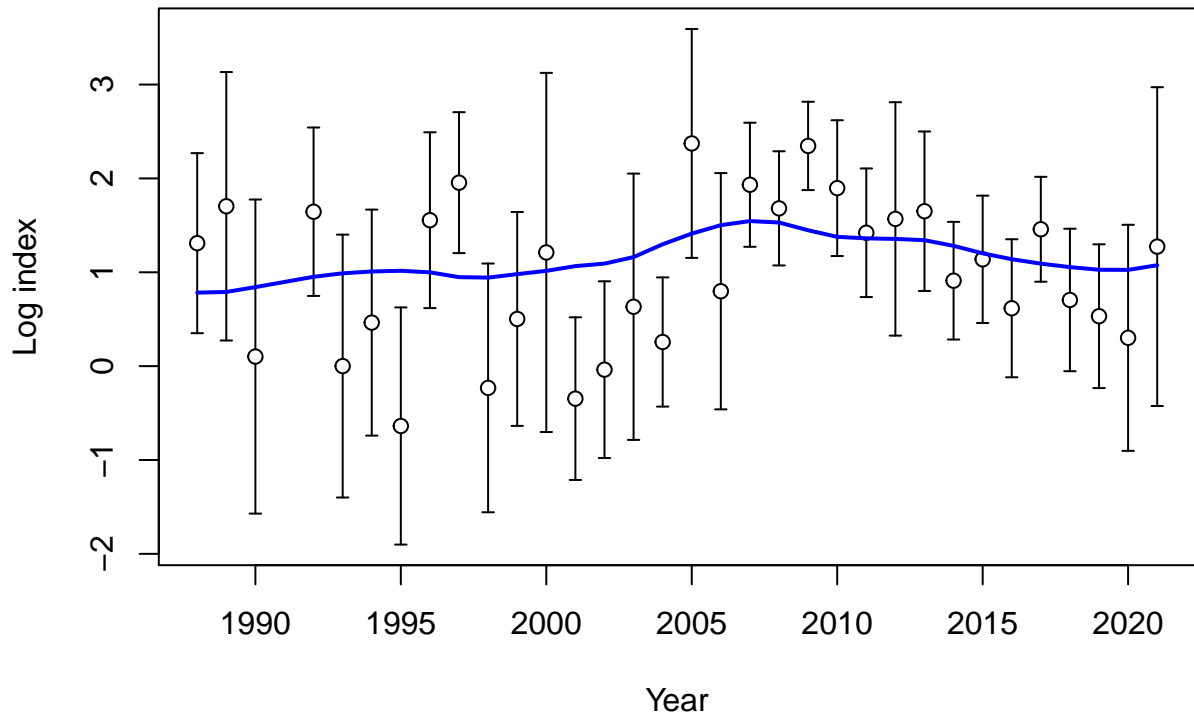
2010

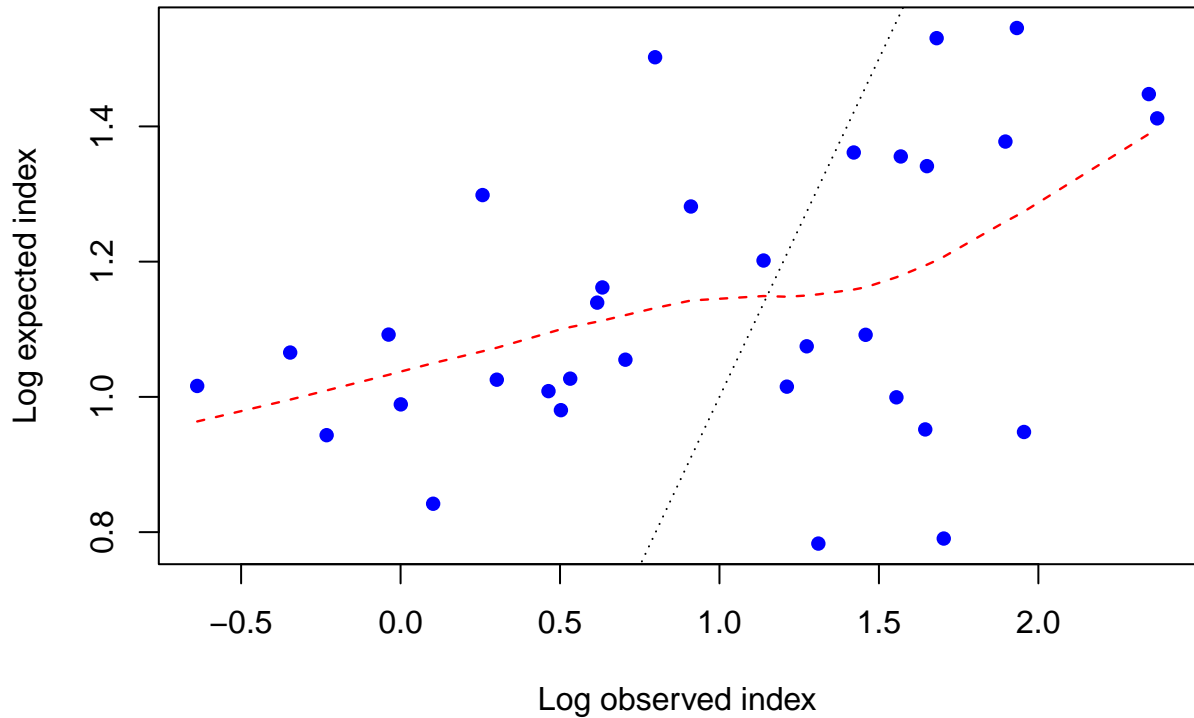
2015

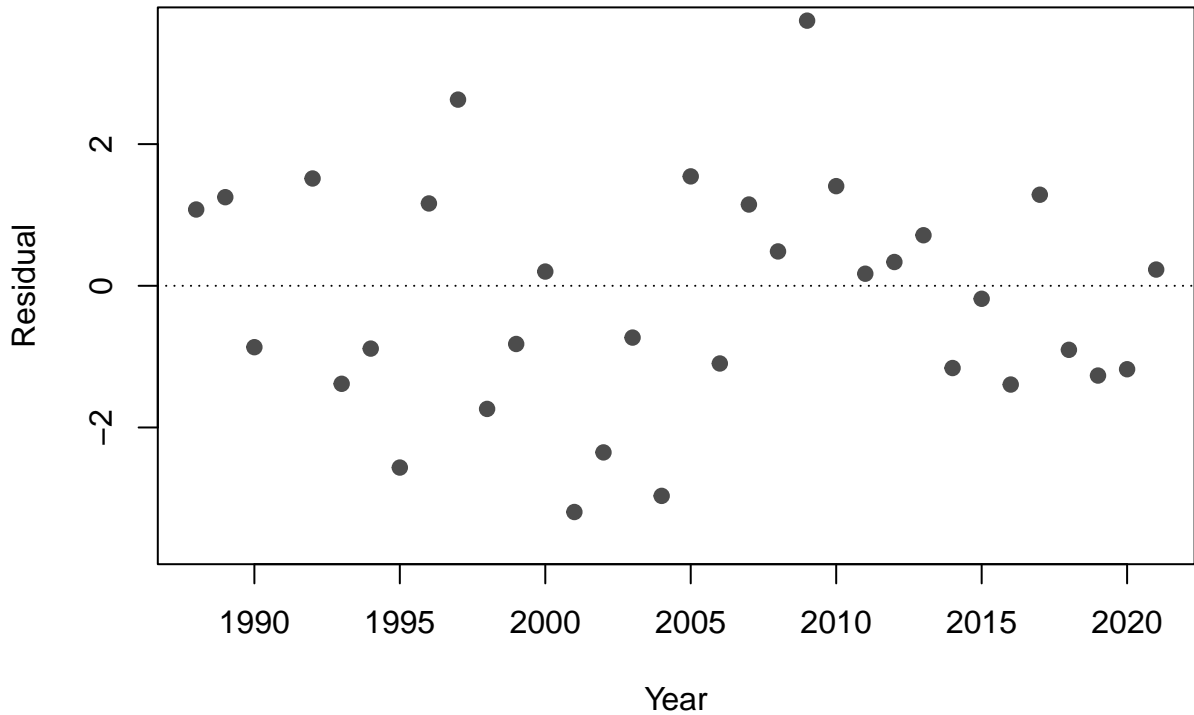
2020

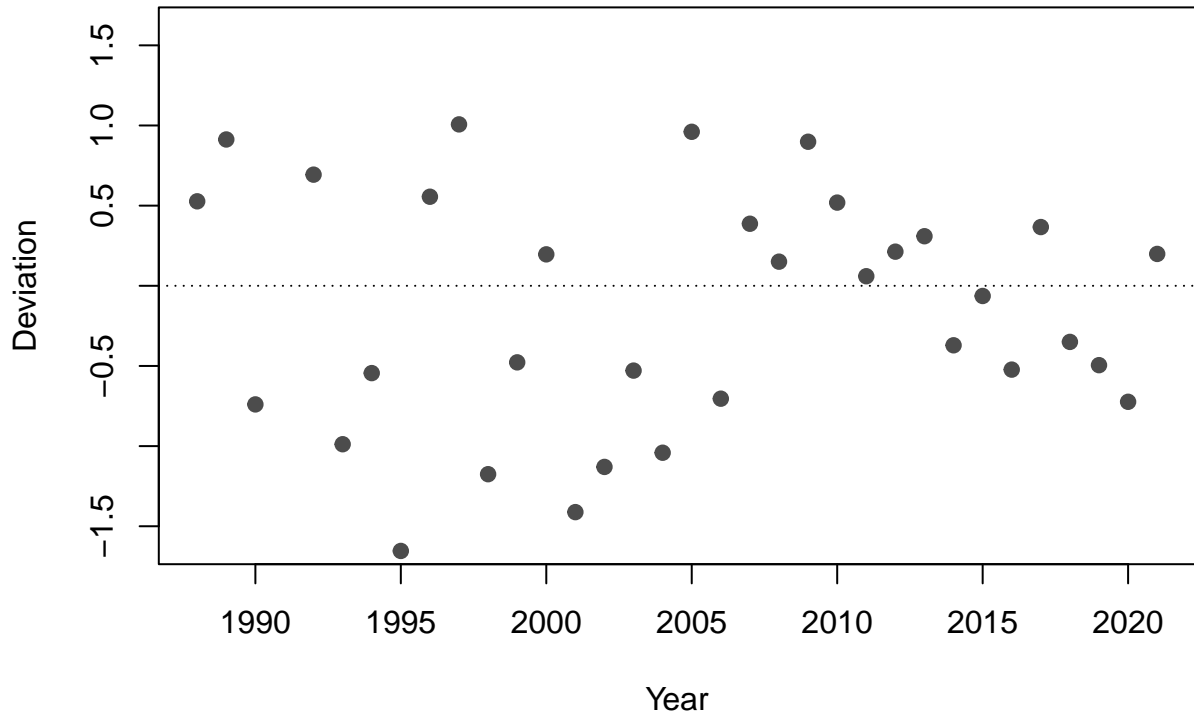
Year

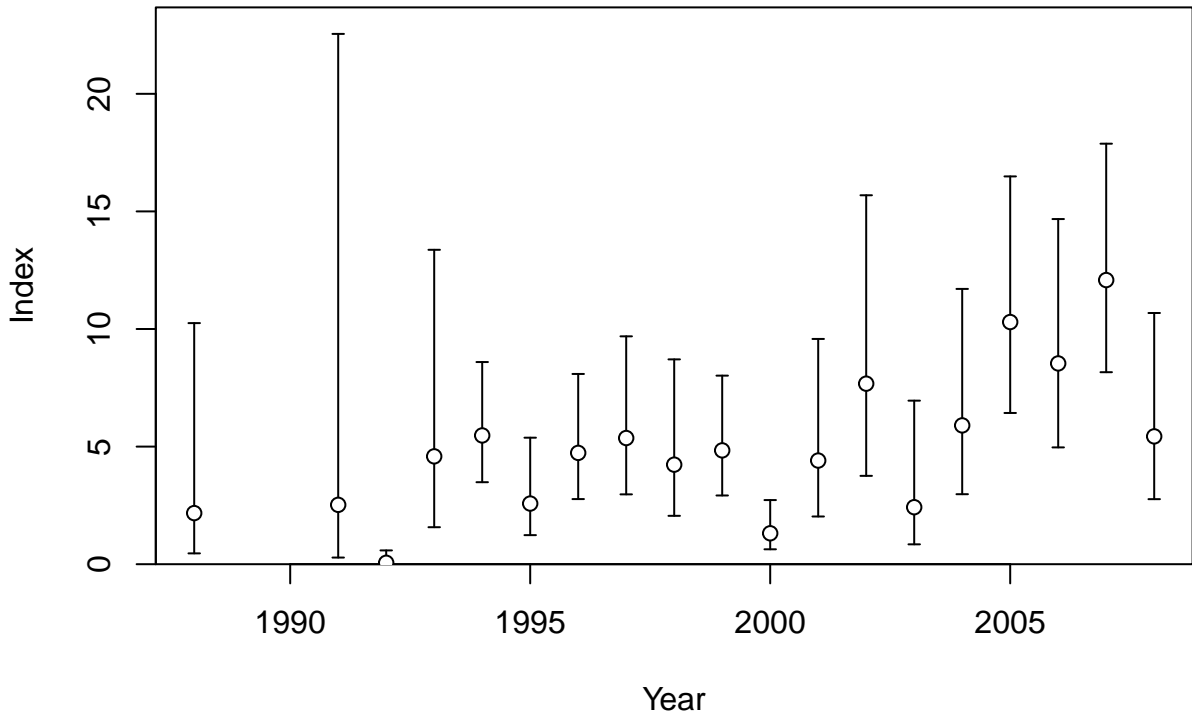


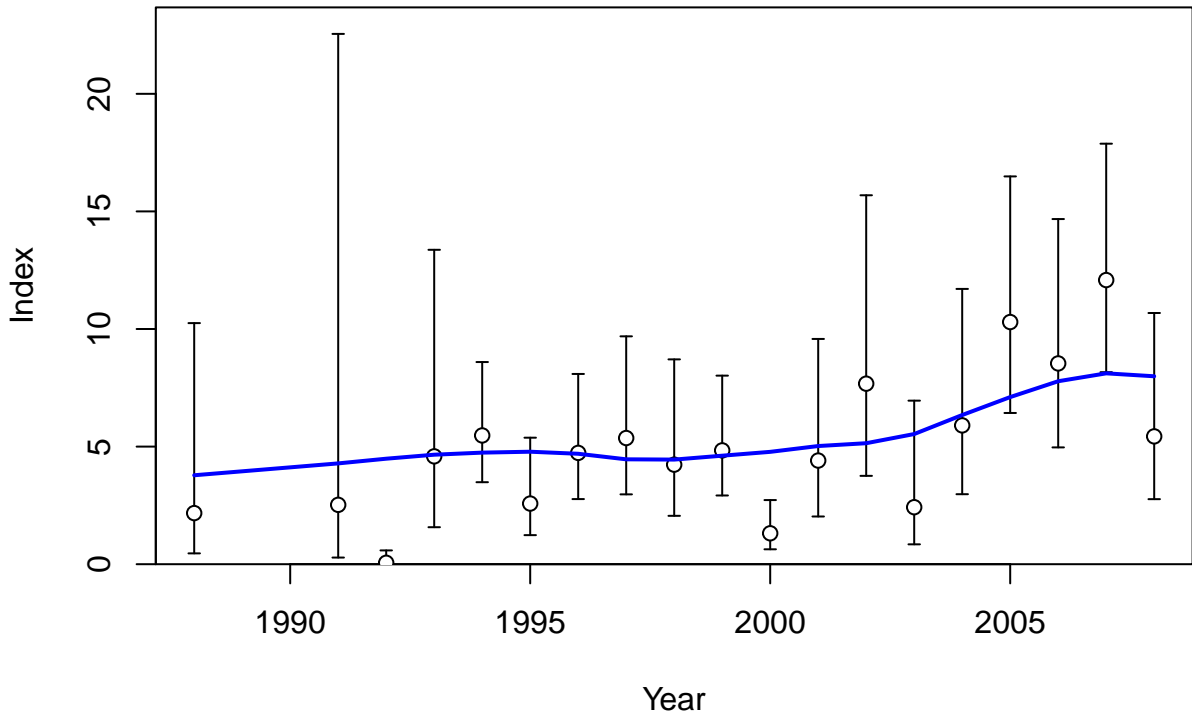


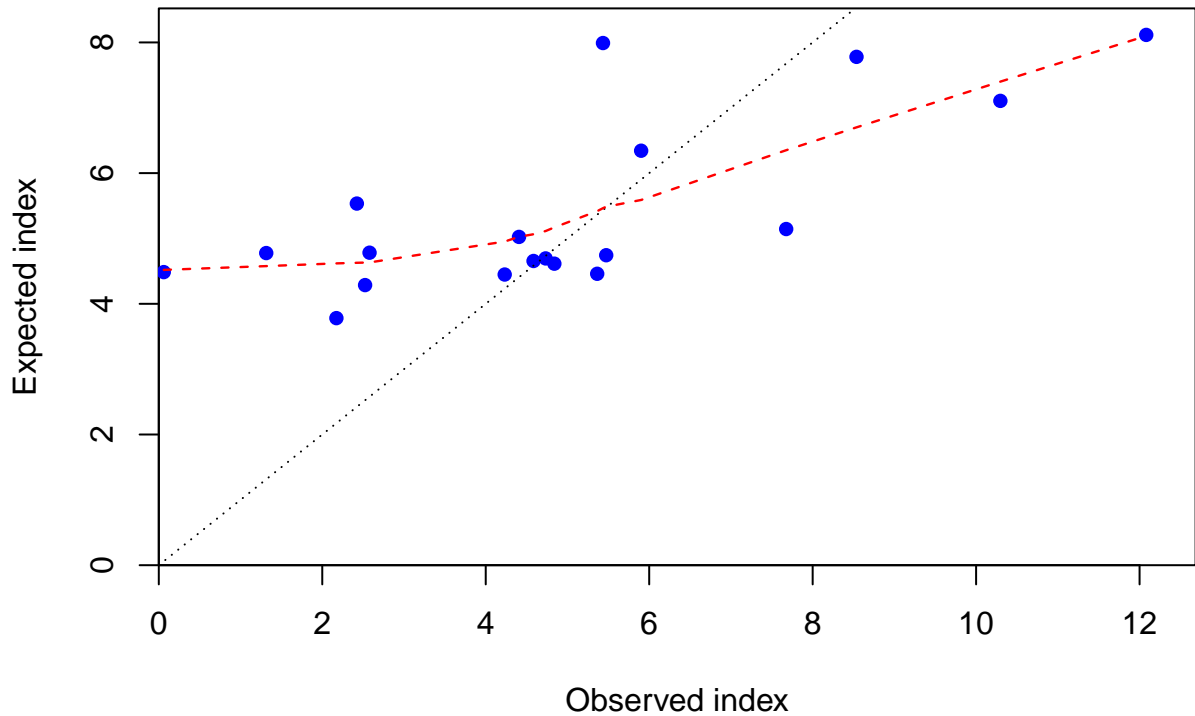


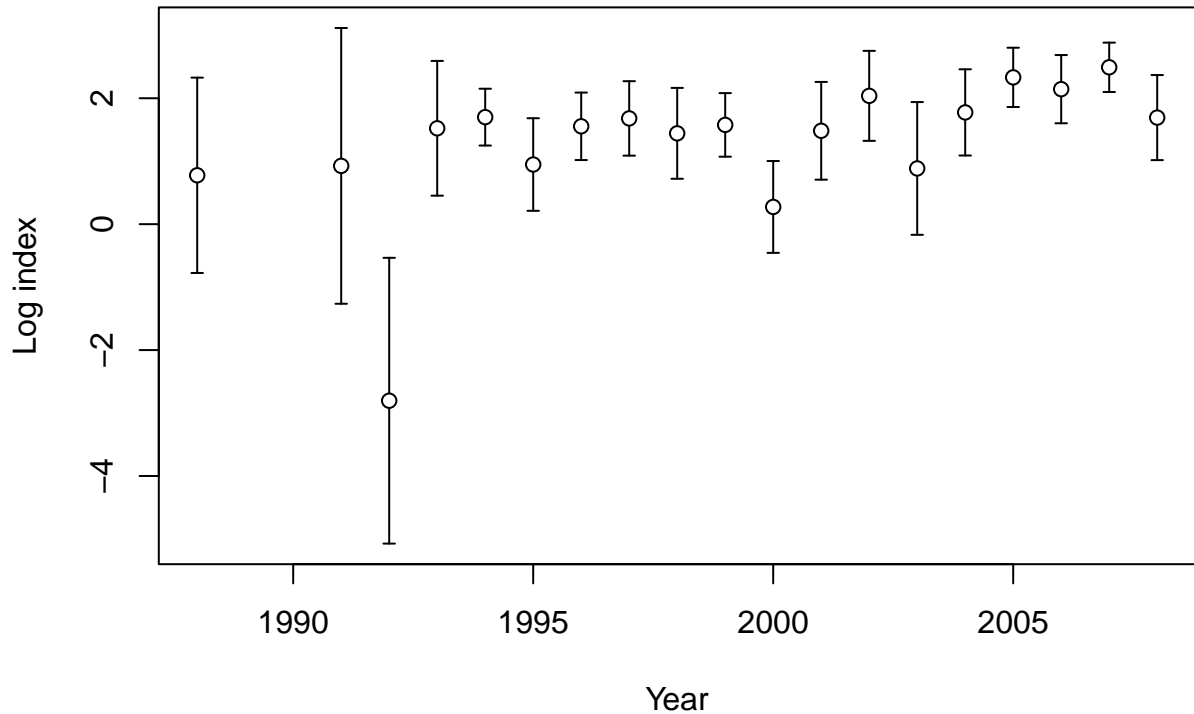


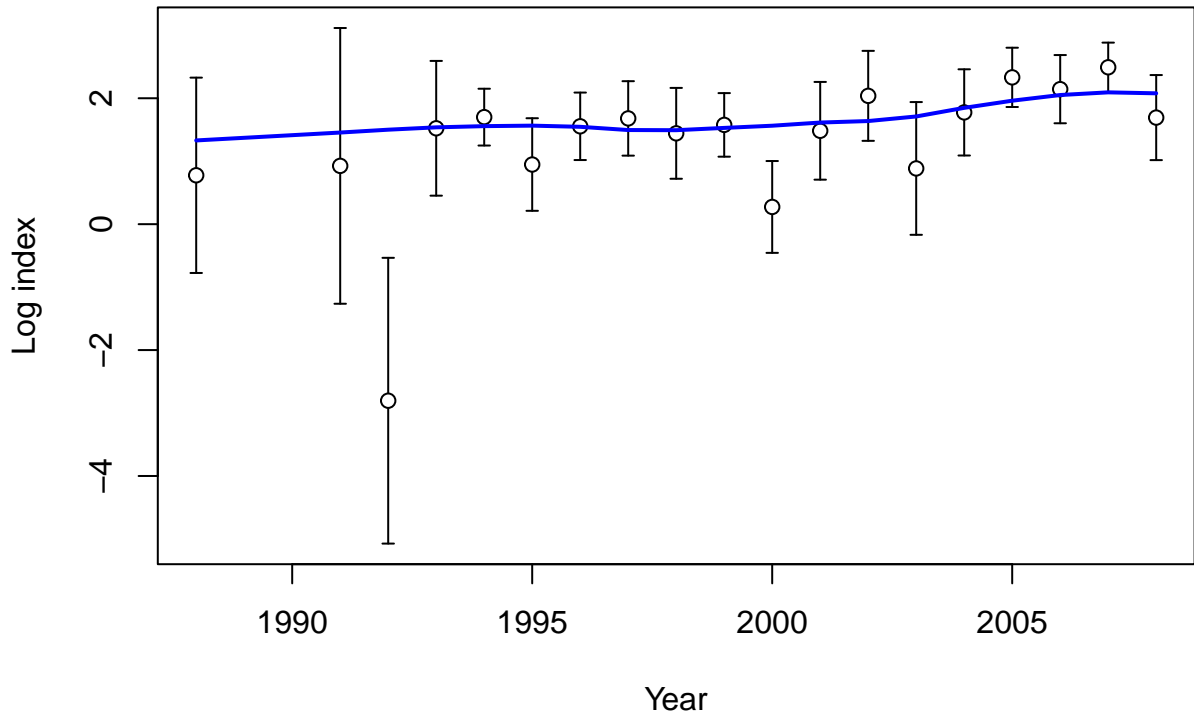


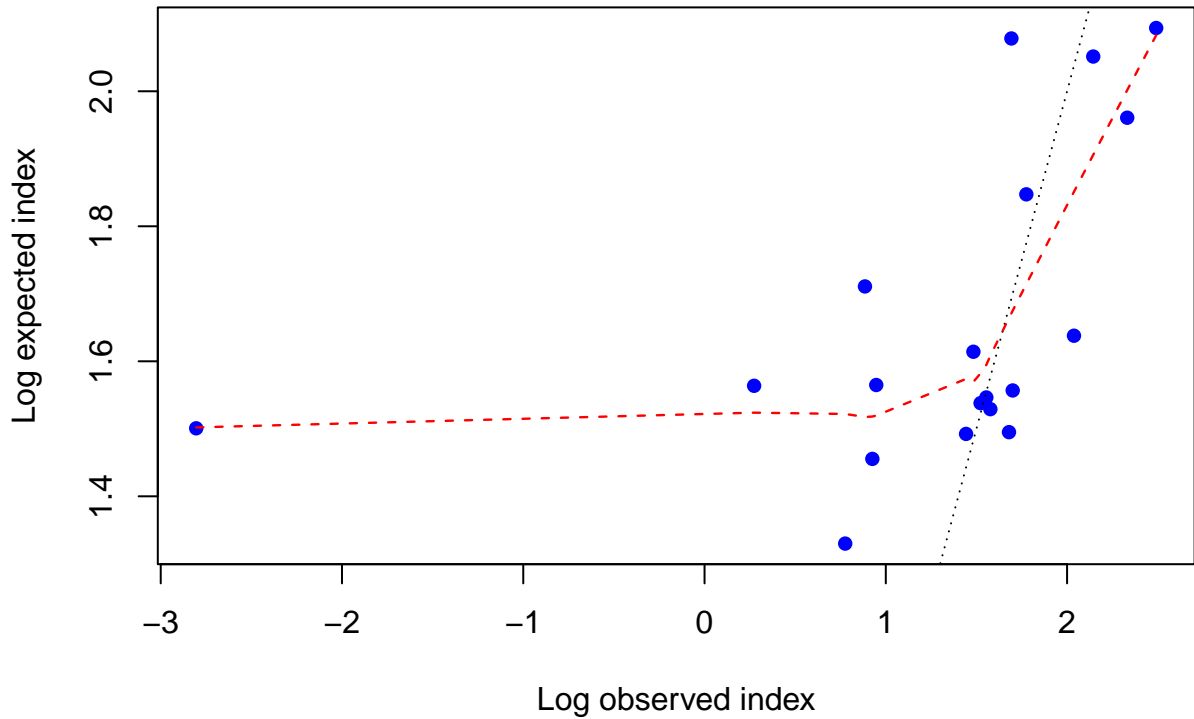


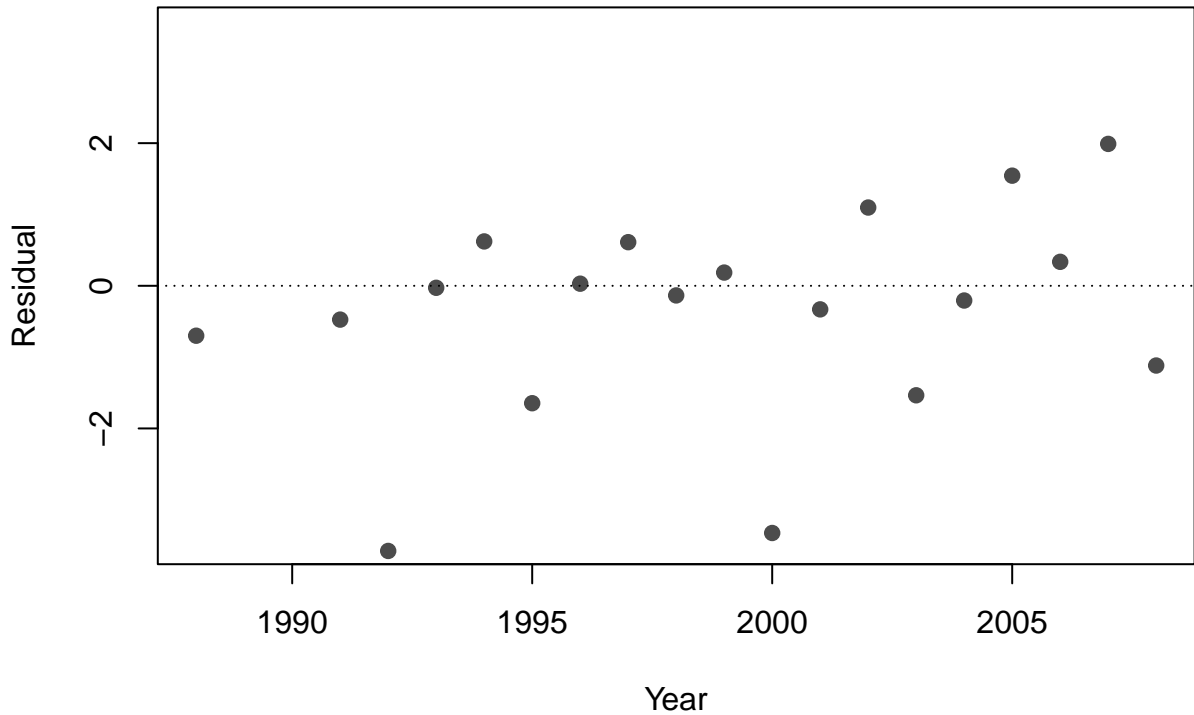




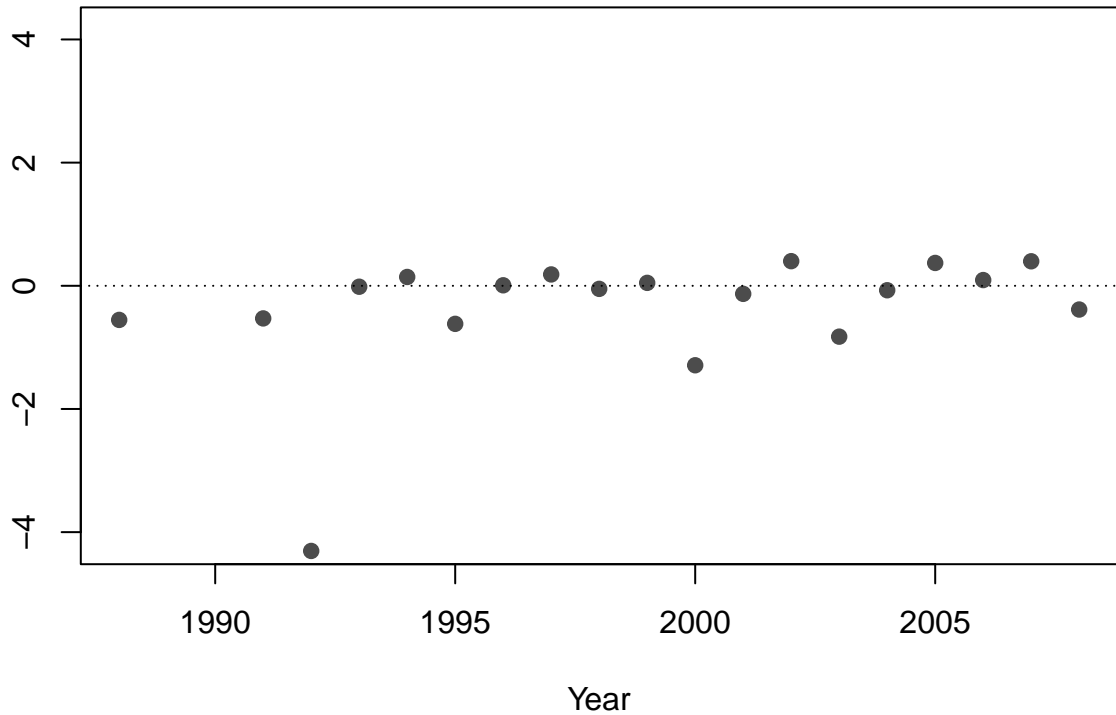




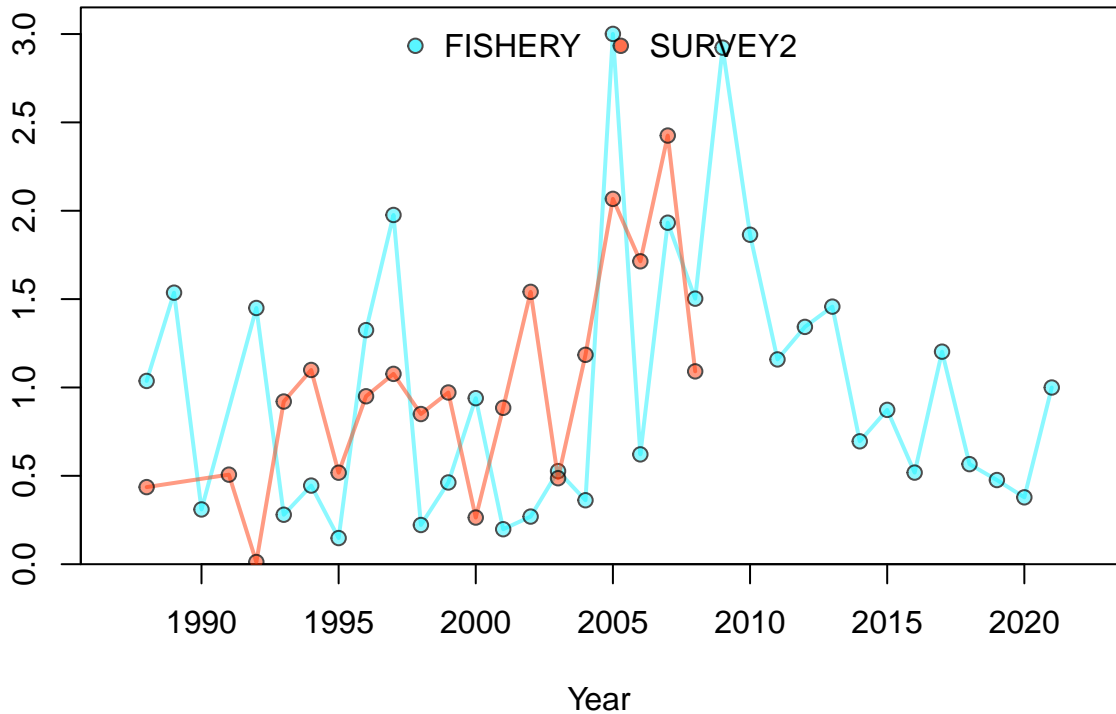


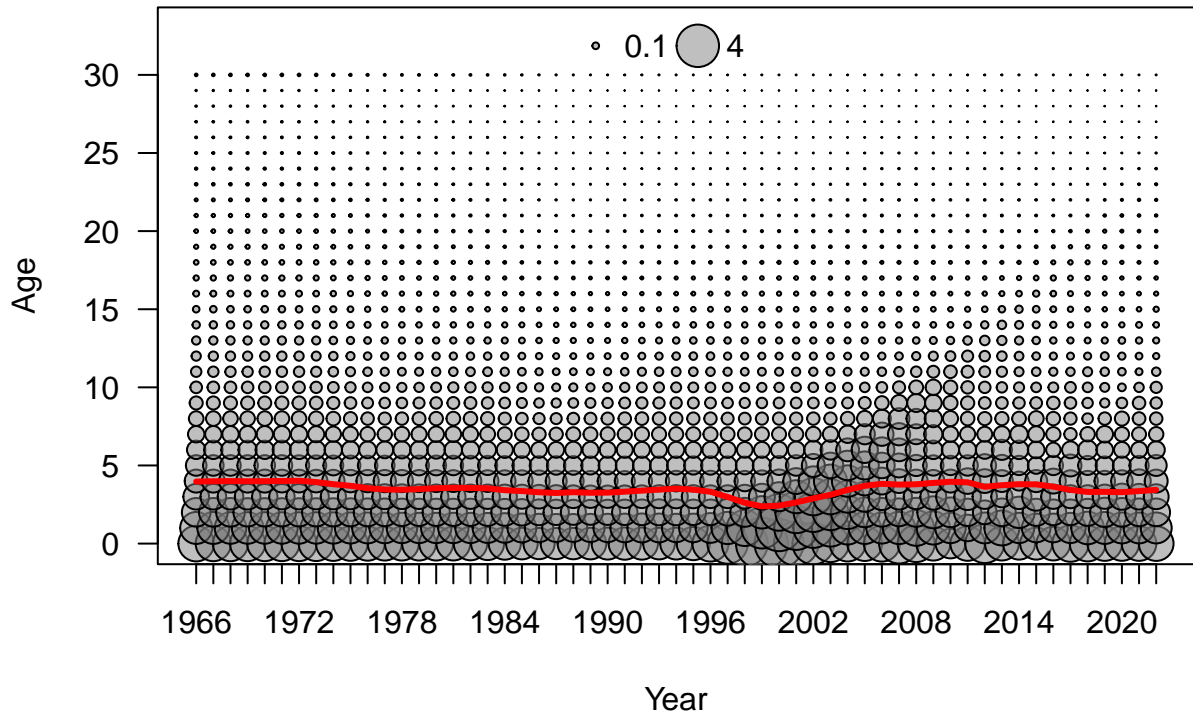


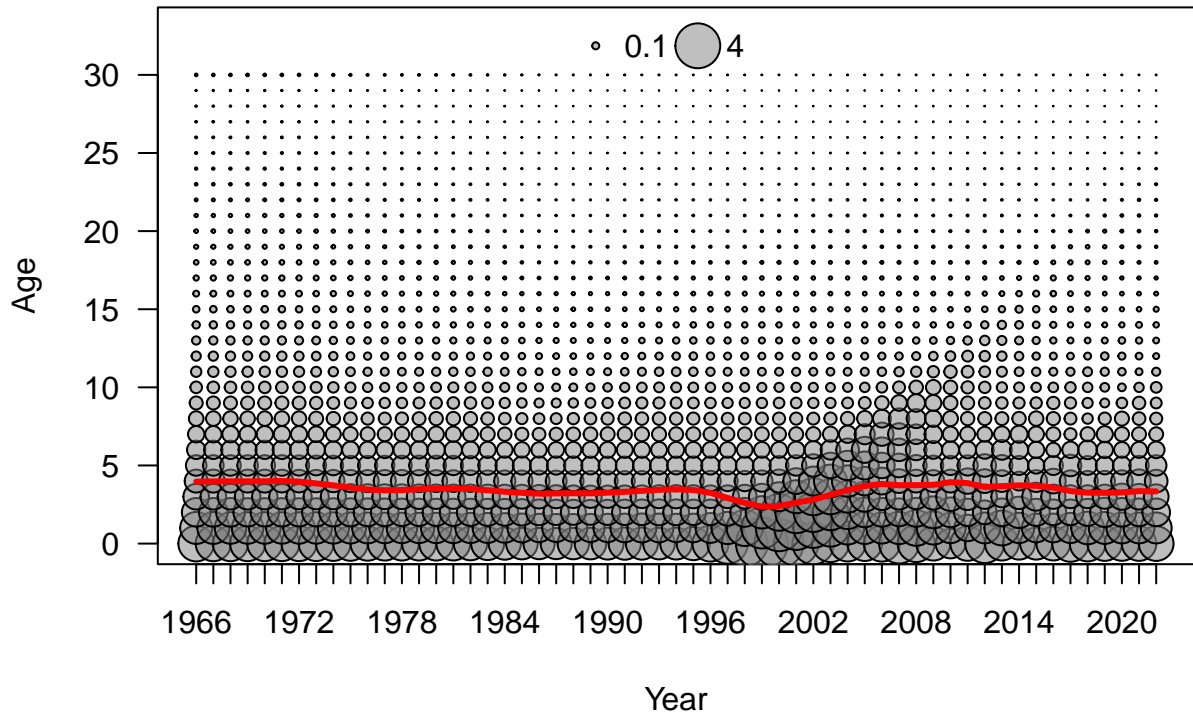
Deviation



Standardized index







Length

120

100

80

60

40

20

0

◦ 0.1 ● 4

1967

1973

1979

1985

1991

1997

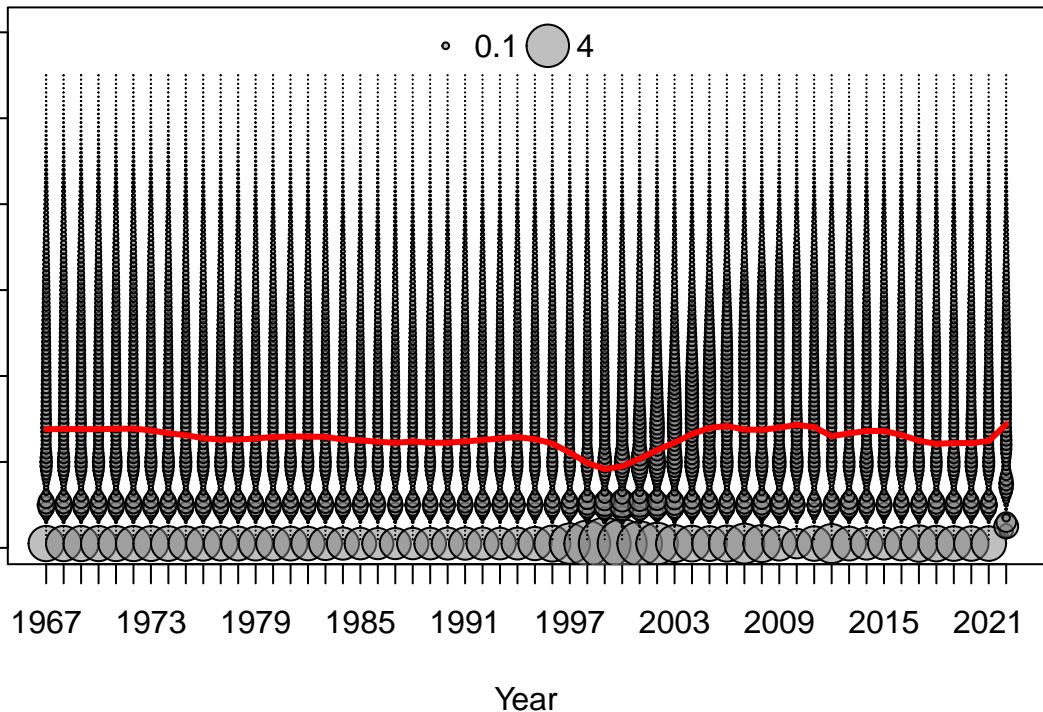
2003

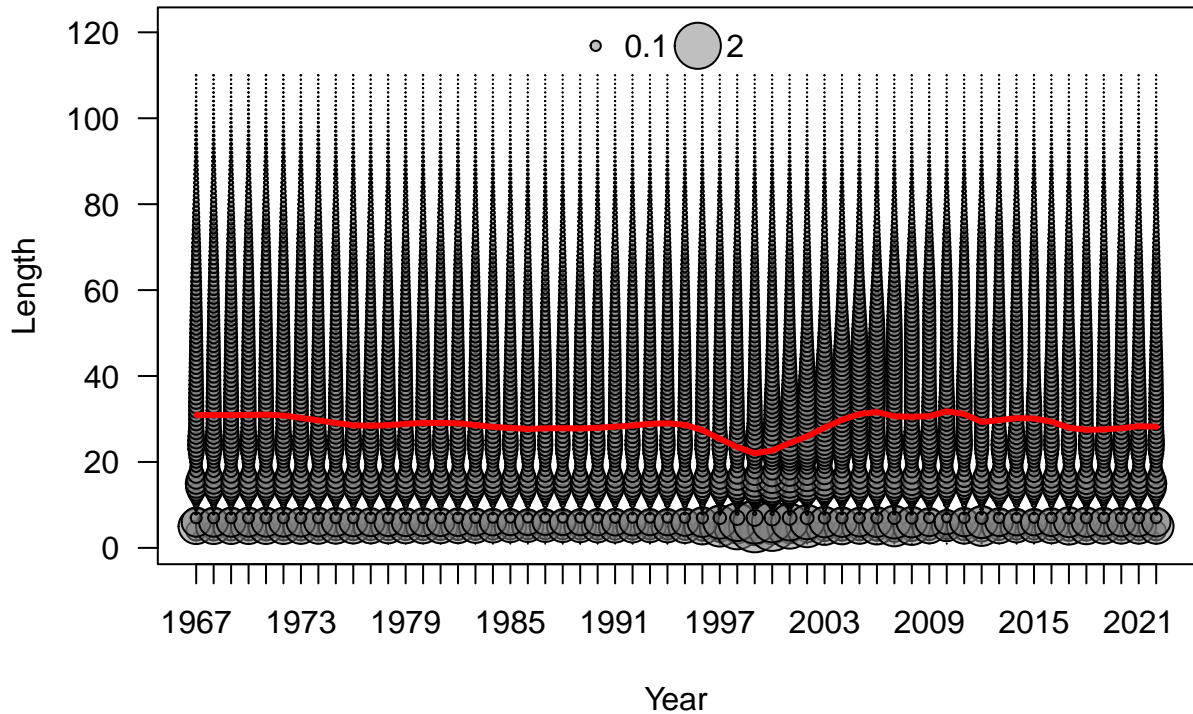
2009

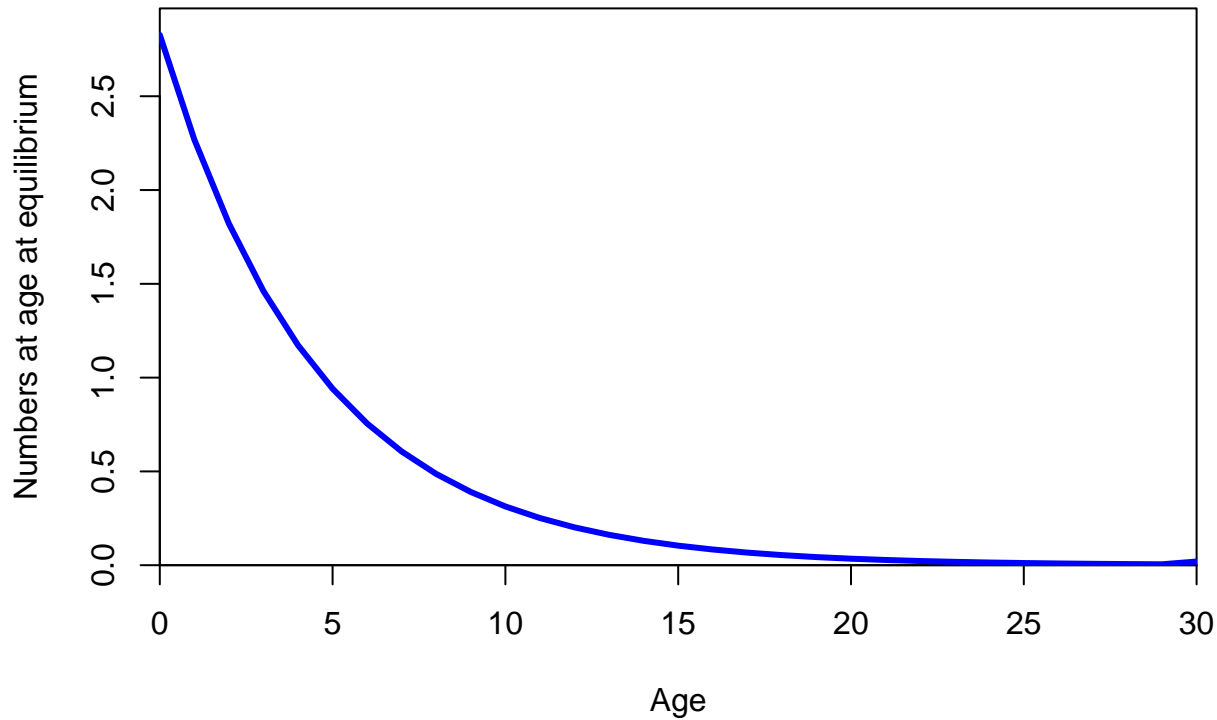
2015

2021

Year

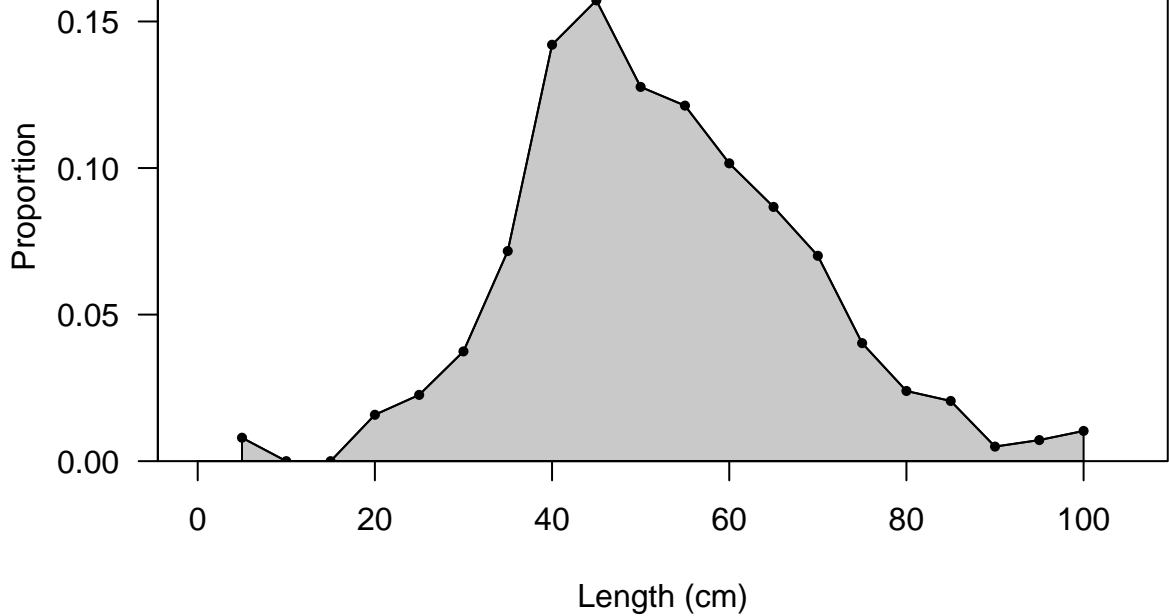


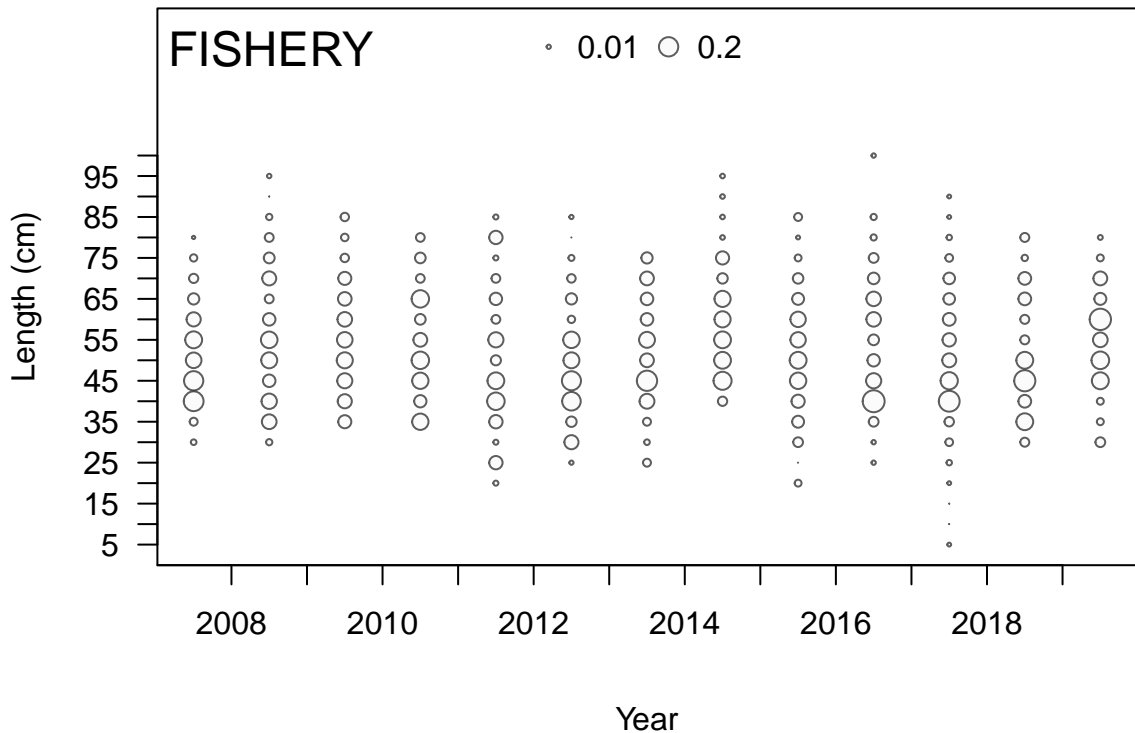


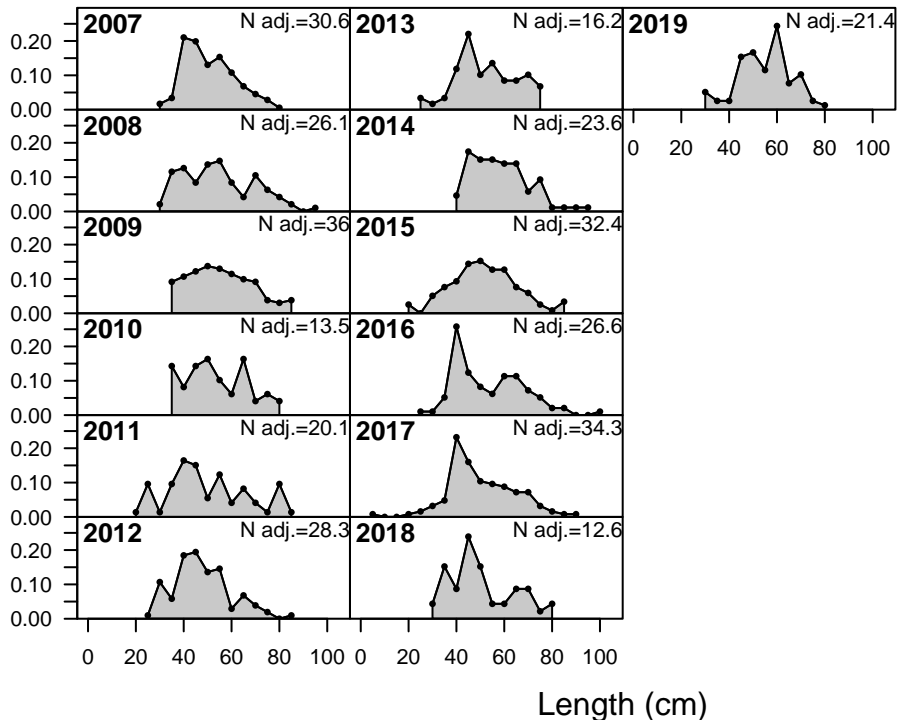


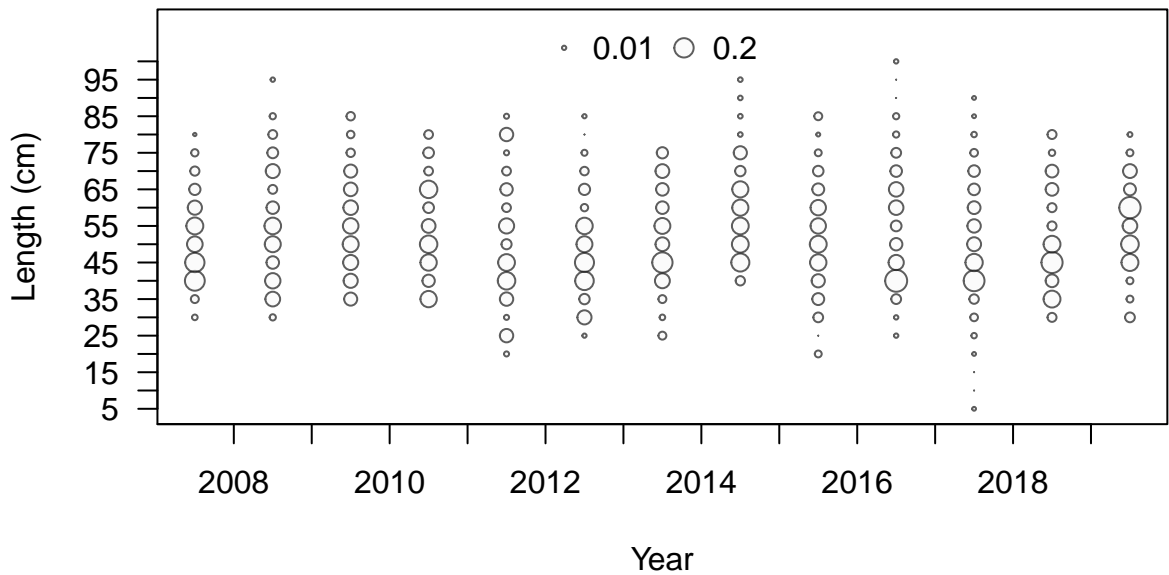
FISHERY

Sum of N adj.=321.7

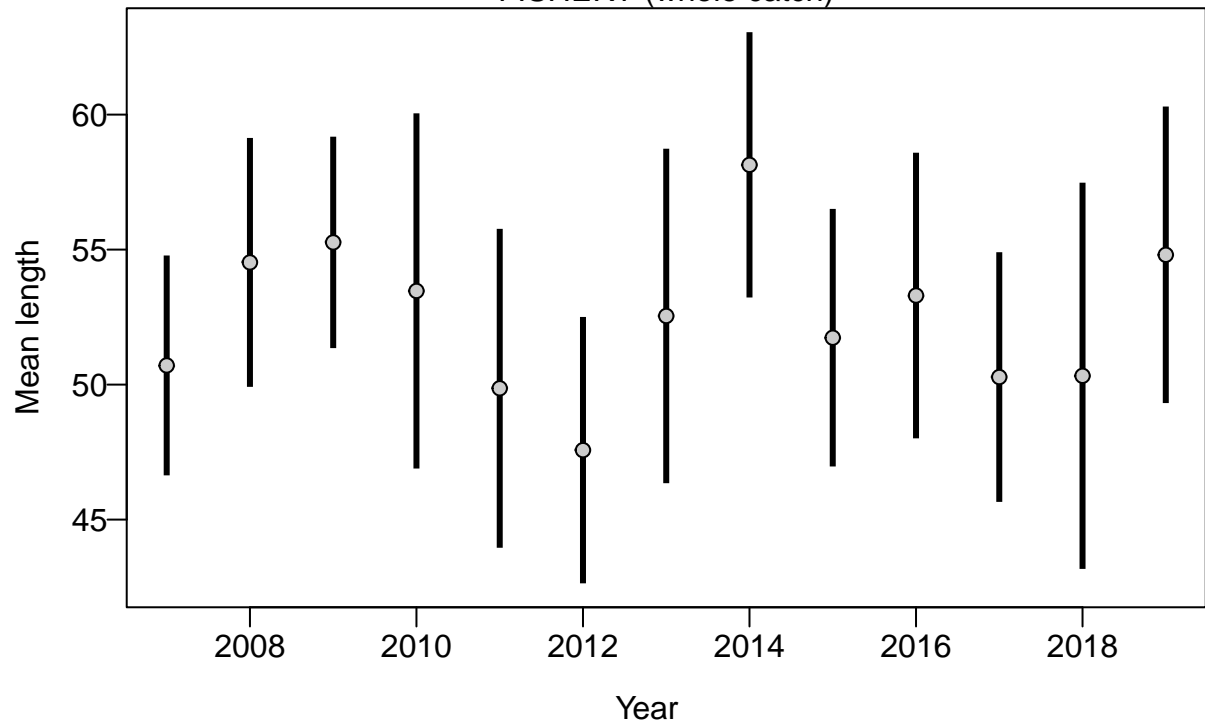






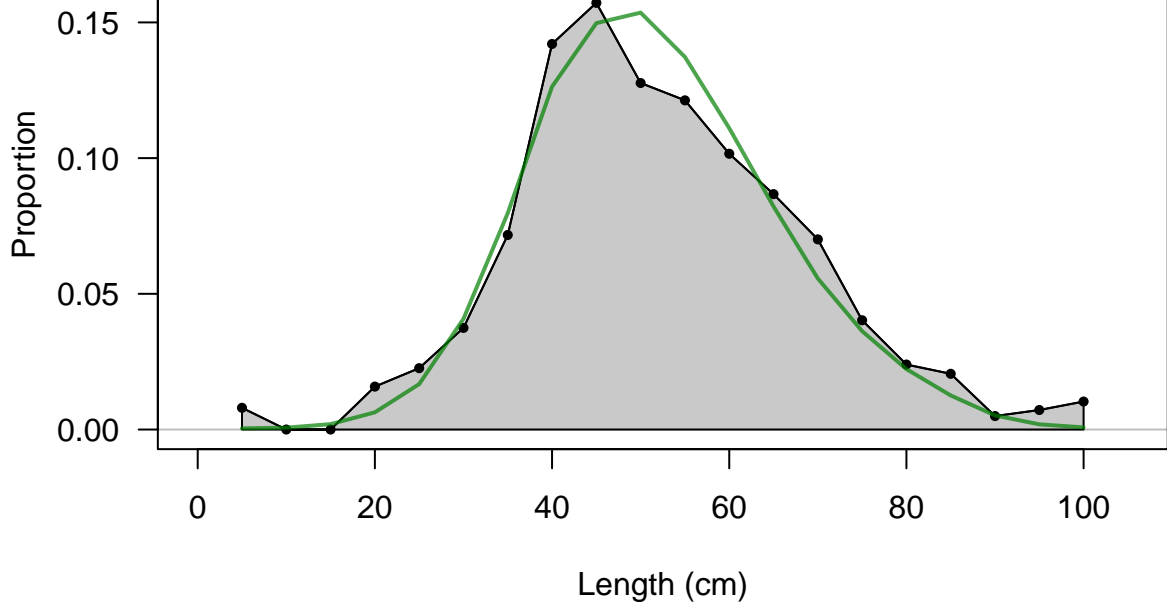


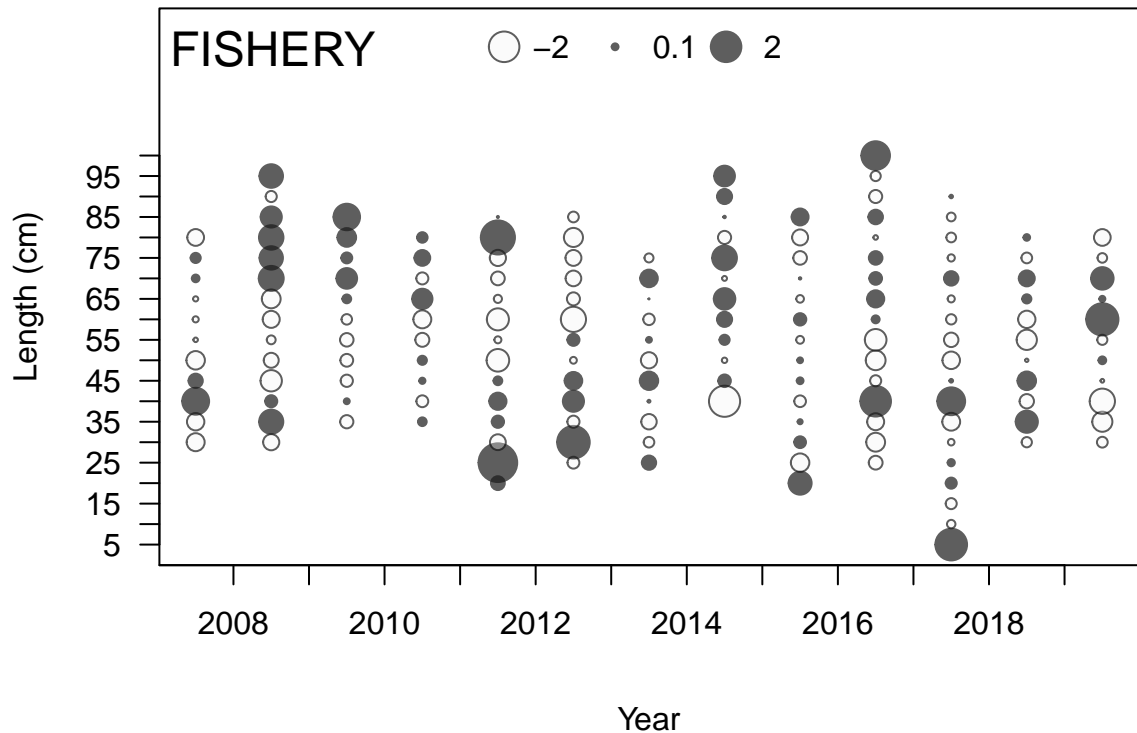
FISHERY (whole catch)



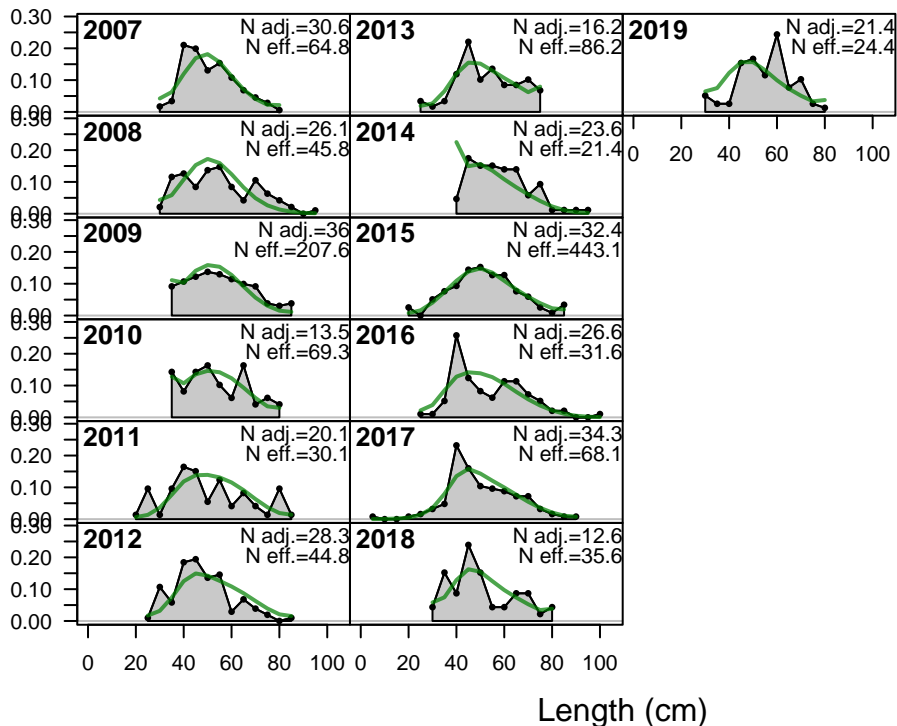
FISHERY

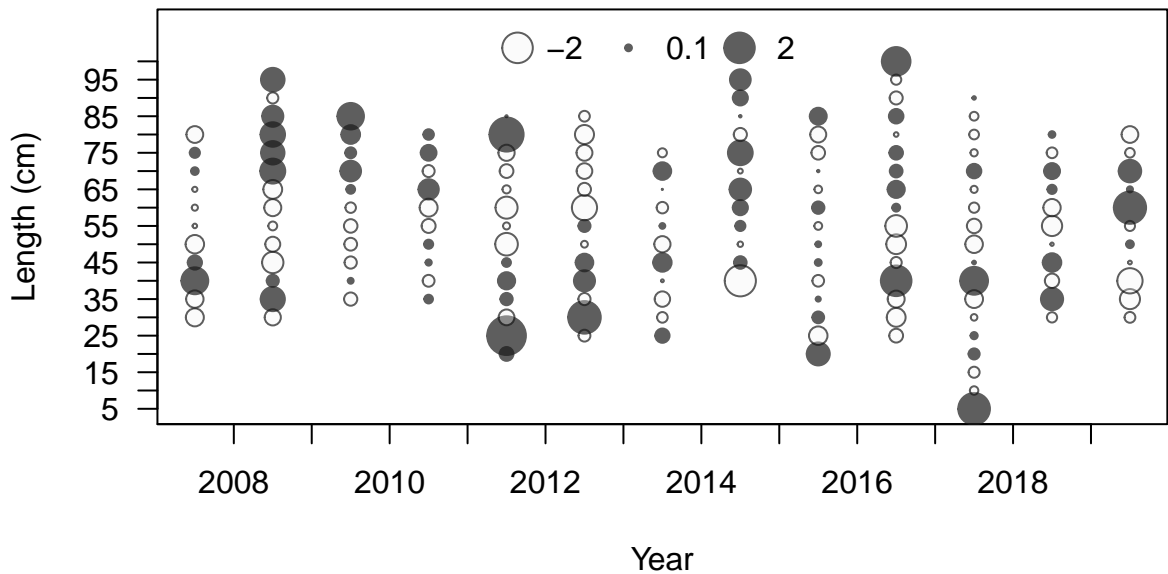
Sum of N adj.=321.7
Sum of N eff.=1172.7

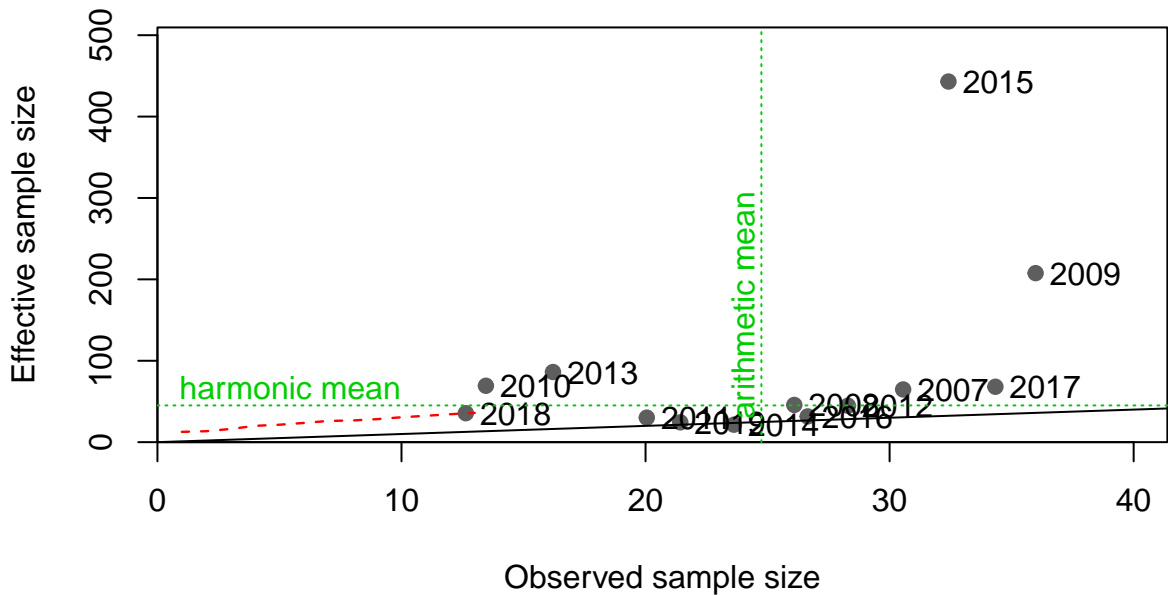




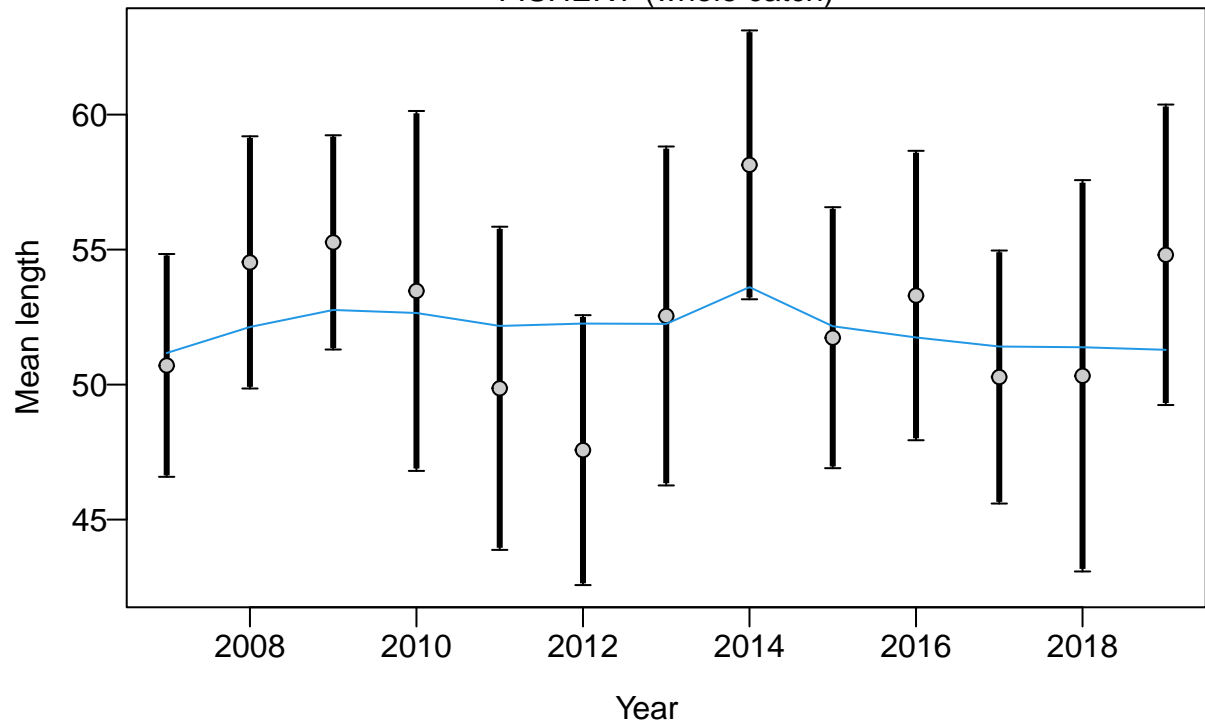
Proportion

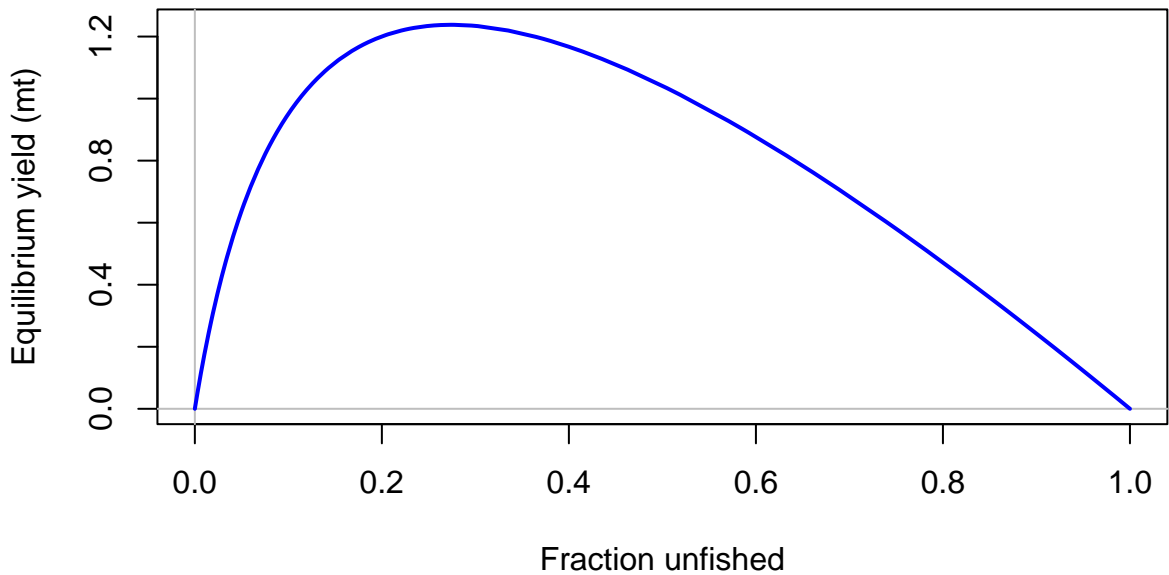


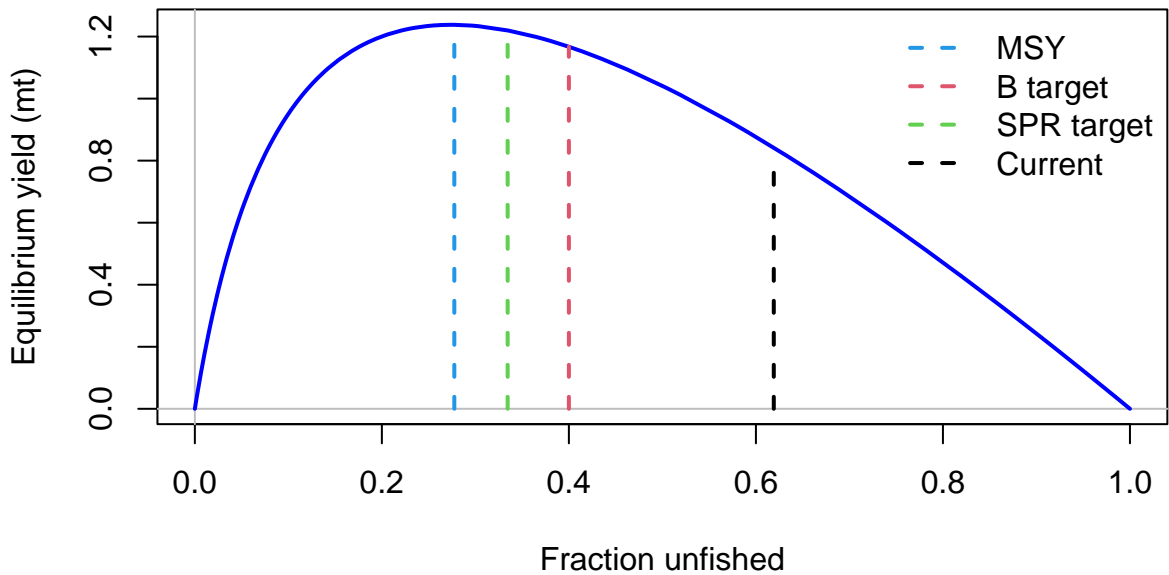


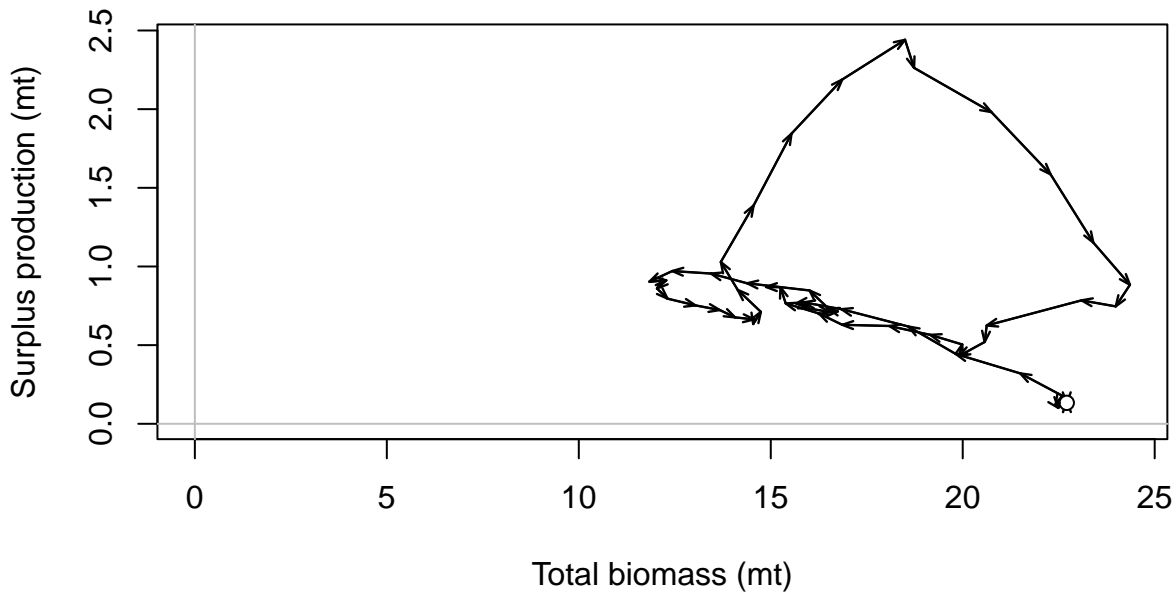


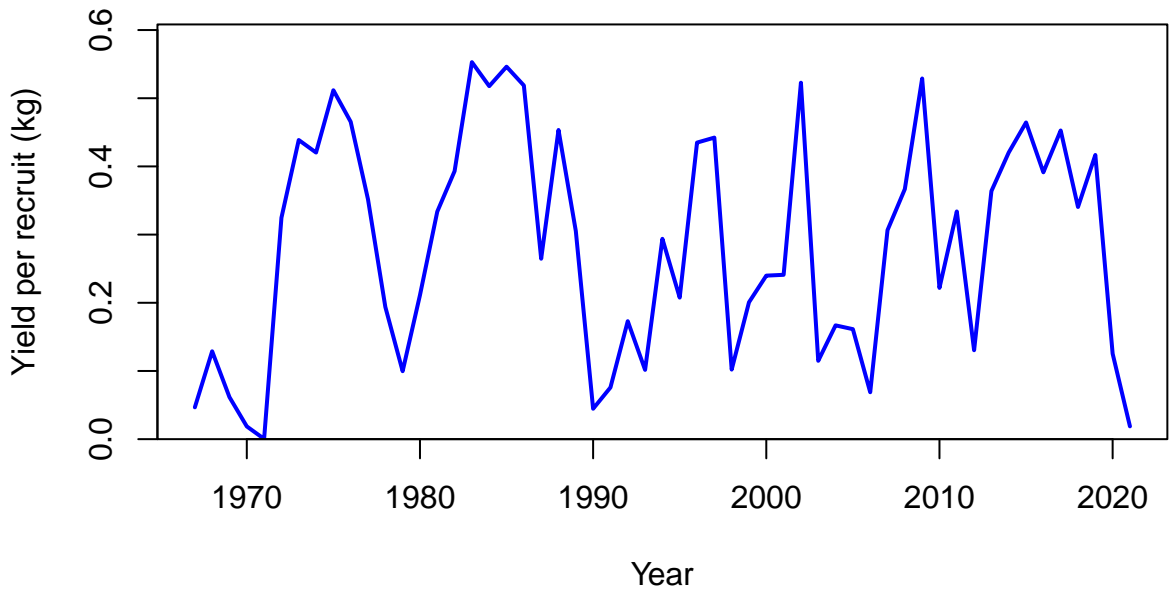
FISHERY (whole catch)

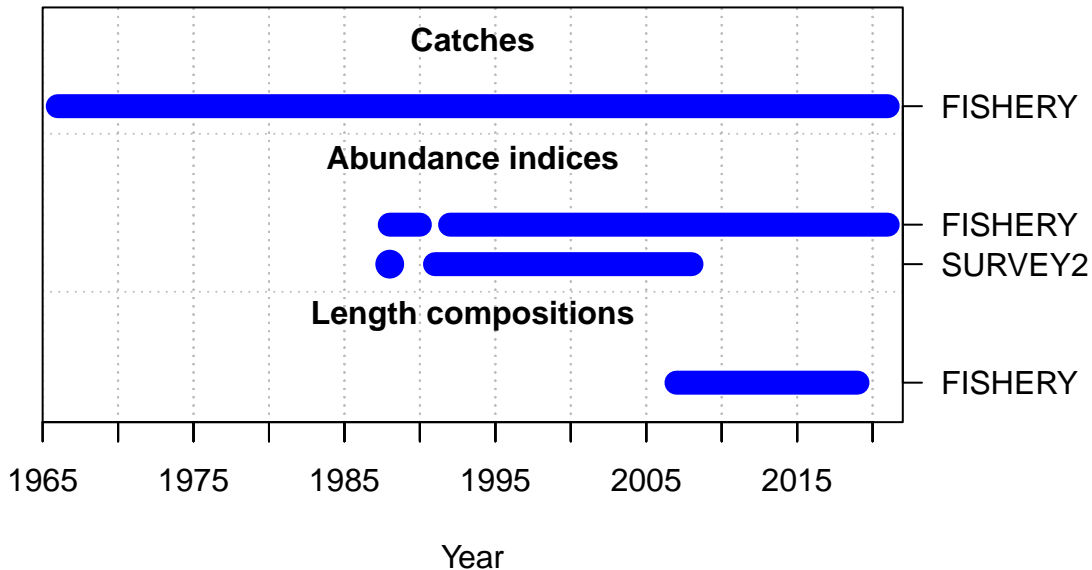


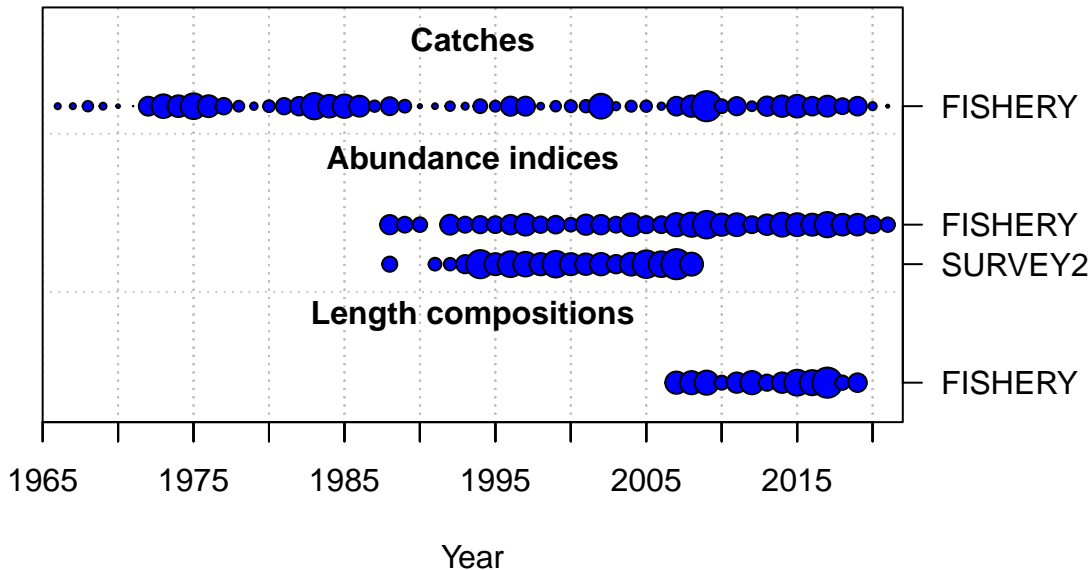




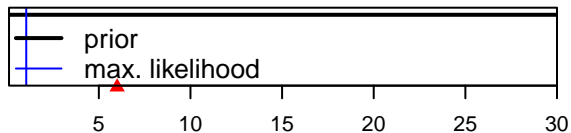




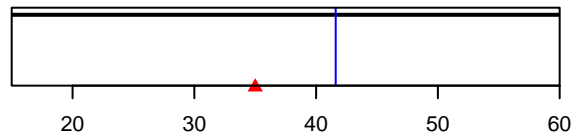




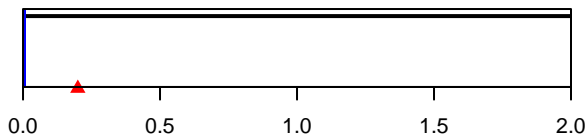
SR_LN(R0)



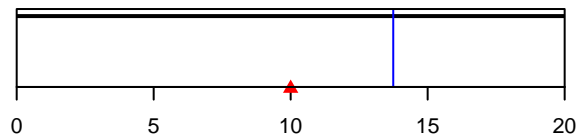
Size_inflection_FISHERY(1)



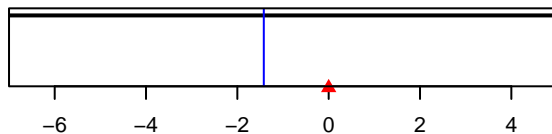
InitF_seas_1_flt_1FISHERY



Size_95%width_FISHERY(1)



LnQ_base_FISHERY(1)



LnQ_base_SURVEY2(2)

