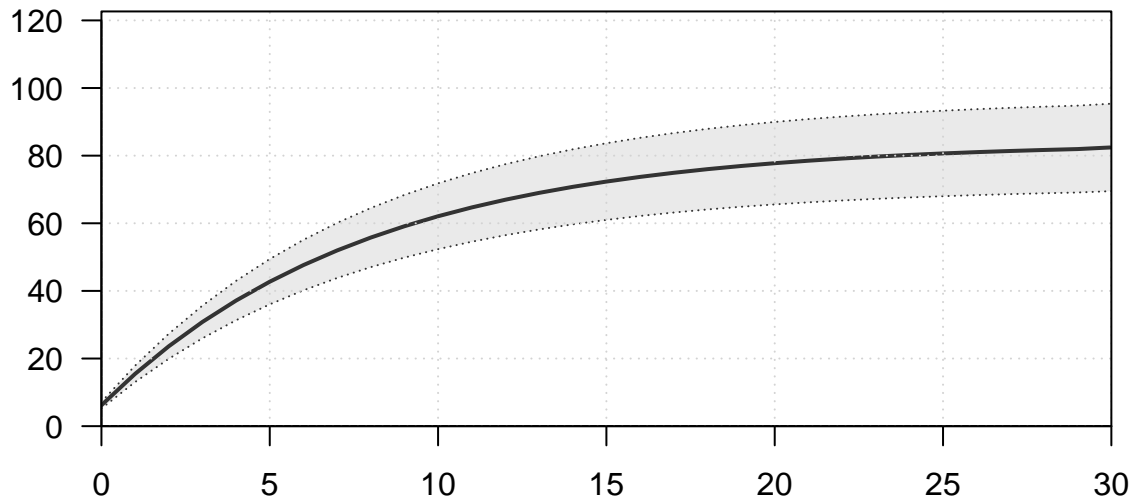
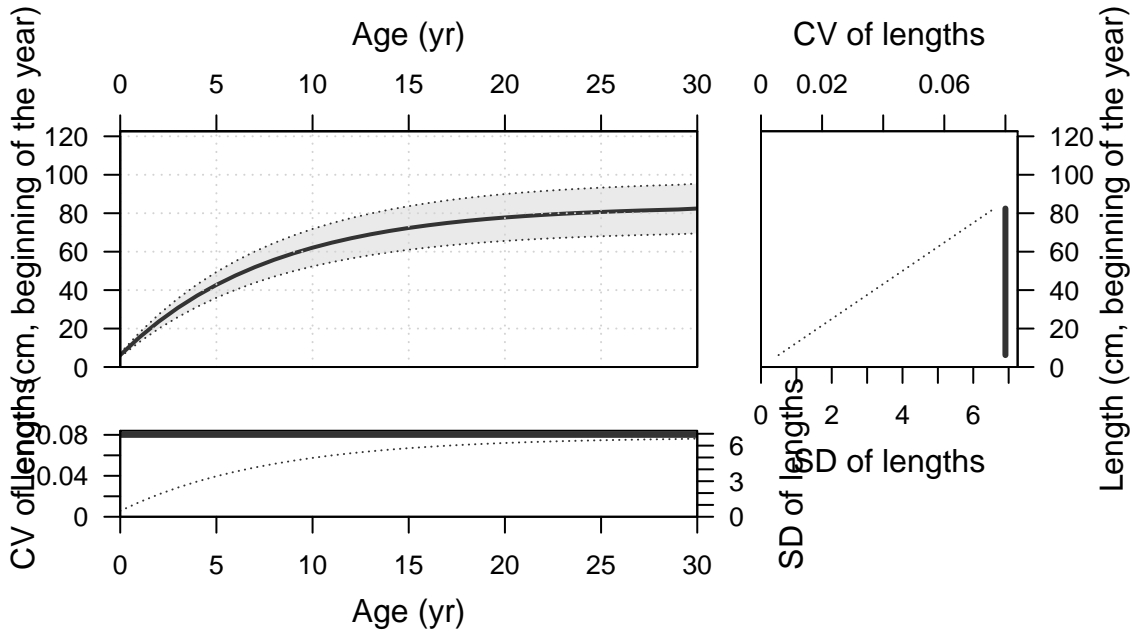


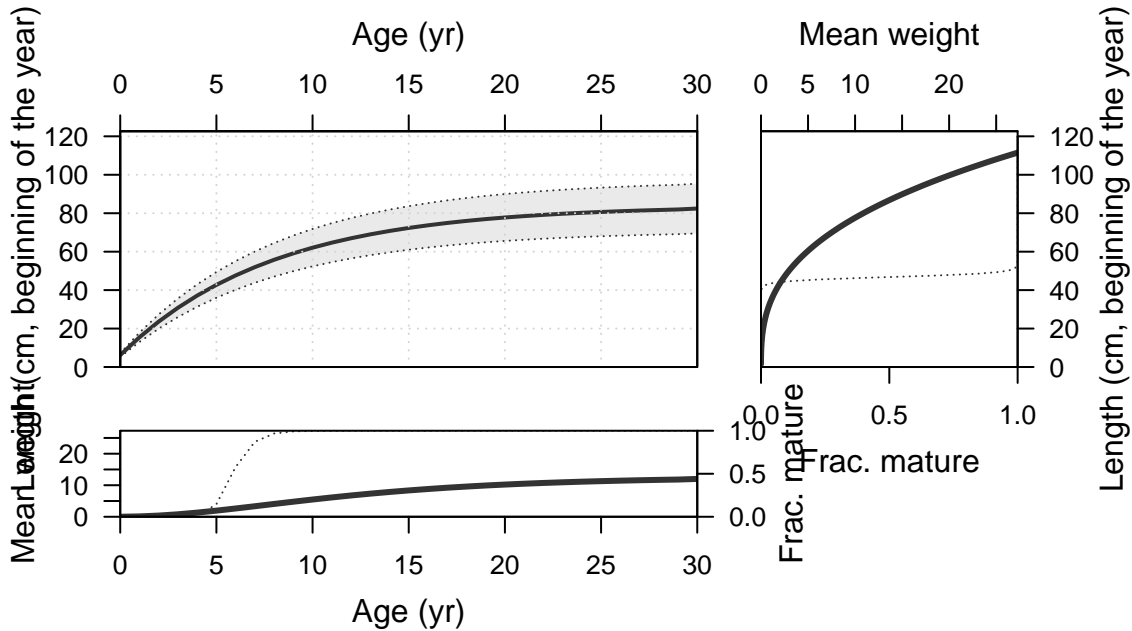
Plots created using the 'r4ss' package in R
Stock Synthesis version: 3.30.19.0
StartTime: Thu Jul 21 12:35:57 2022
Data_File: data.ss
Control_File: control.ss

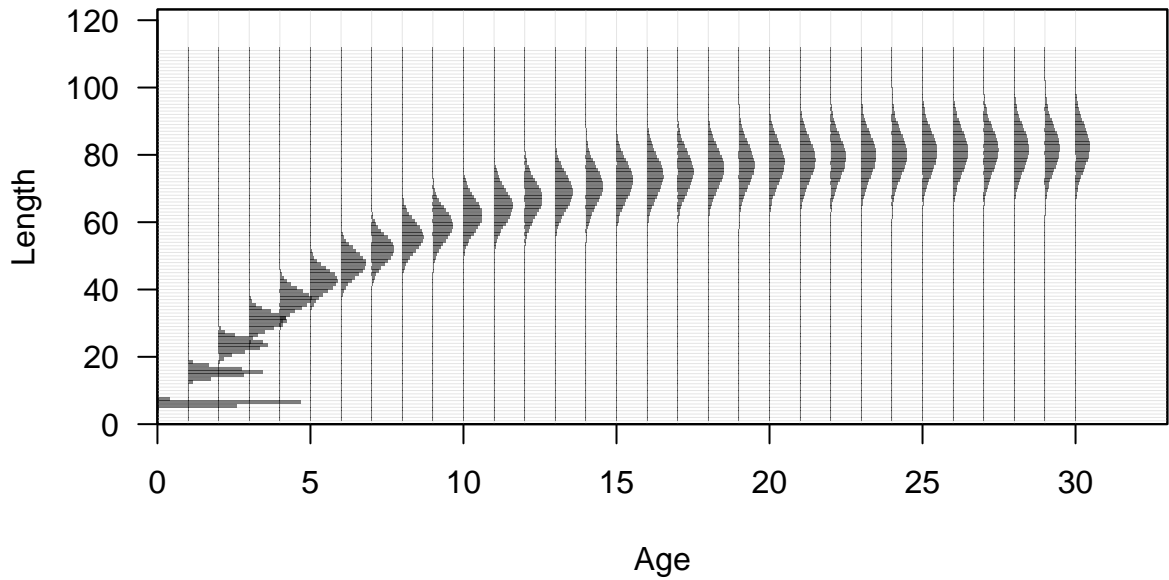
Length (cm, beginning of the year)

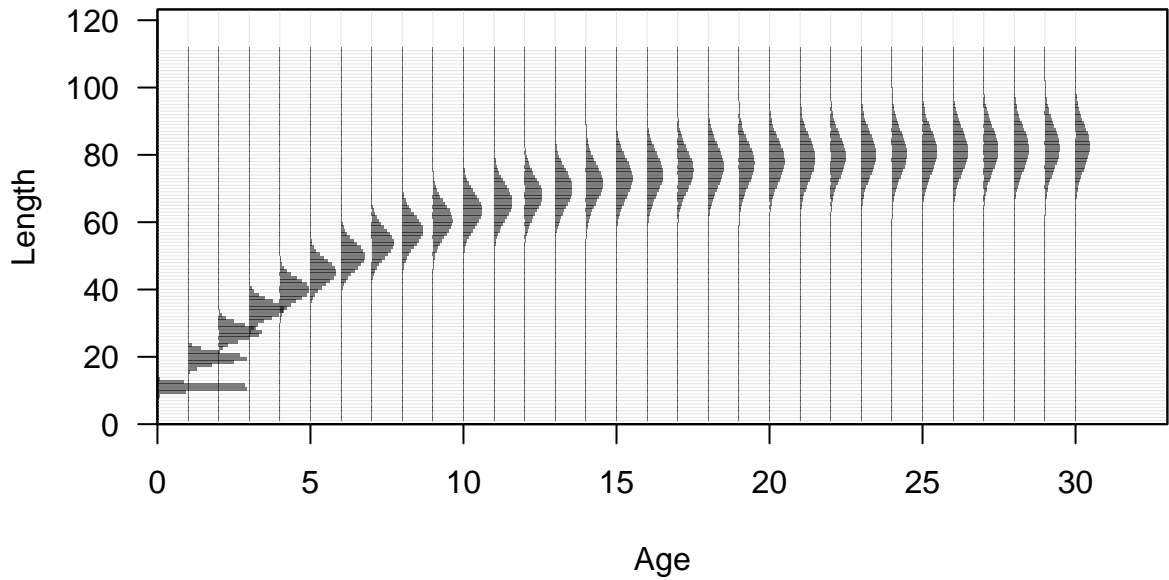


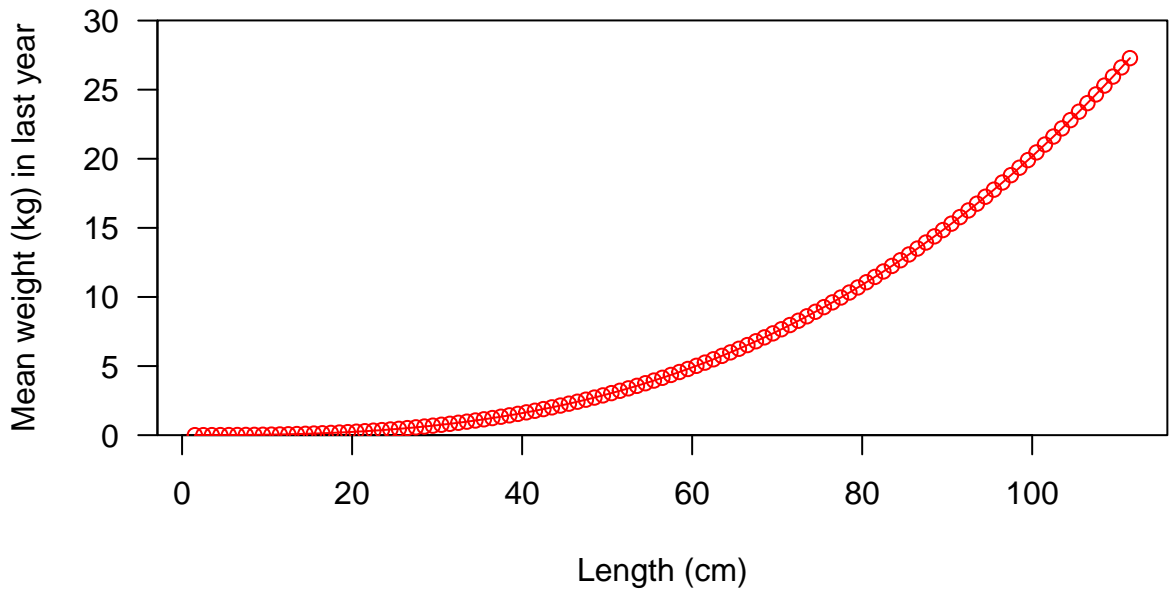
Age (yr)

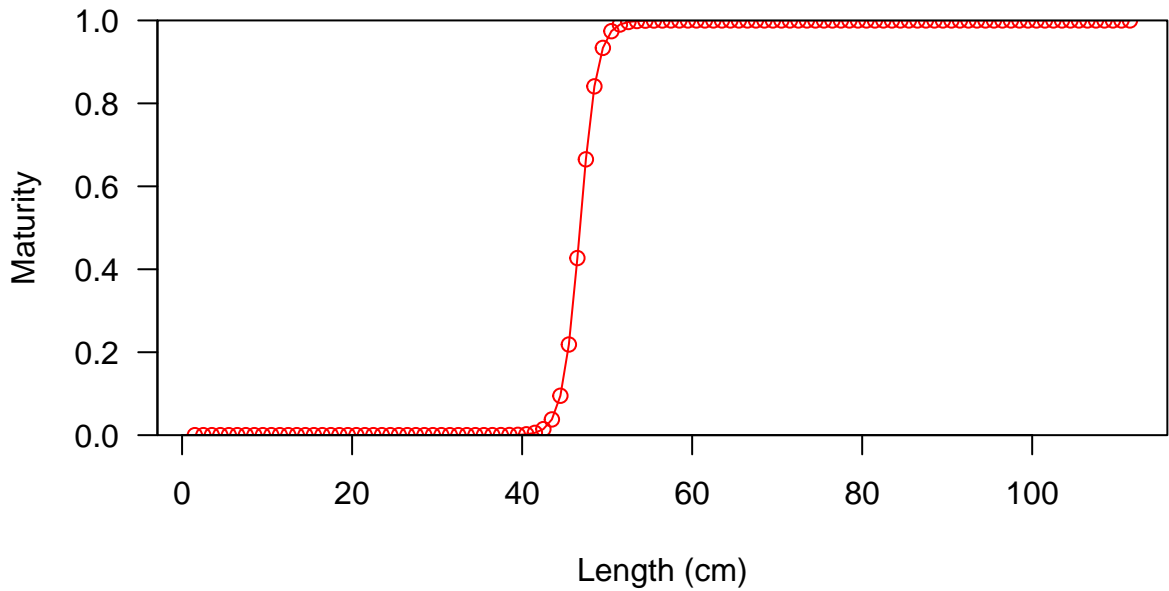


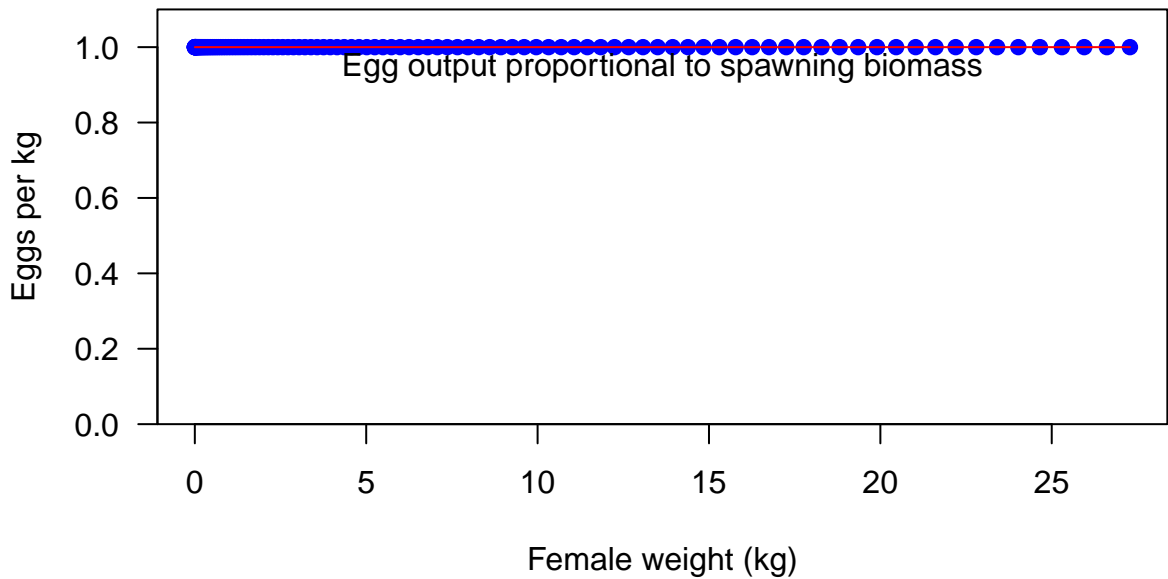


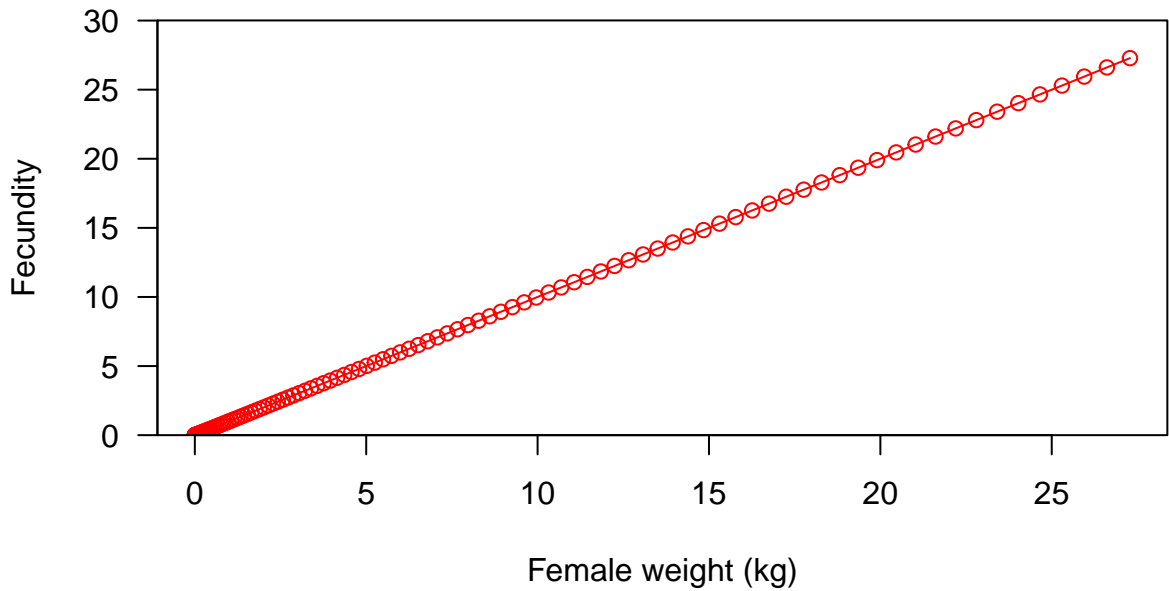












Fecundity

30
25
20
15
10
5
0

0

20

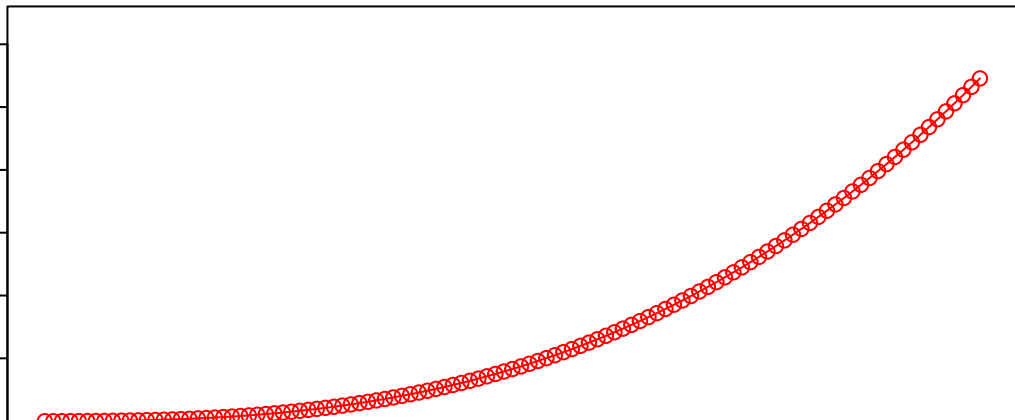
40

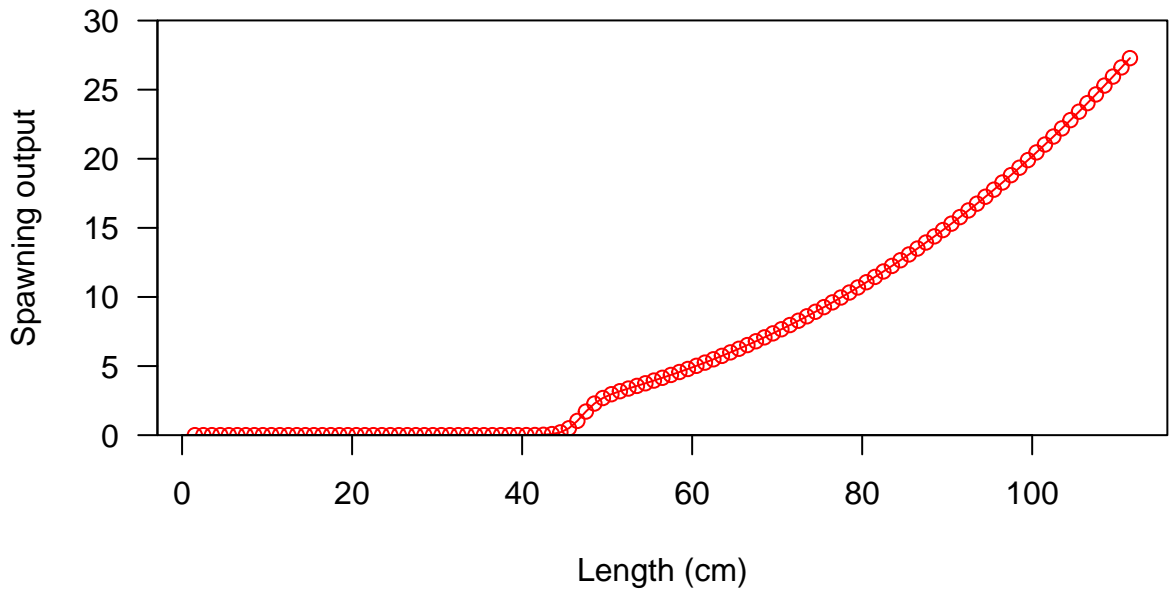
60

80

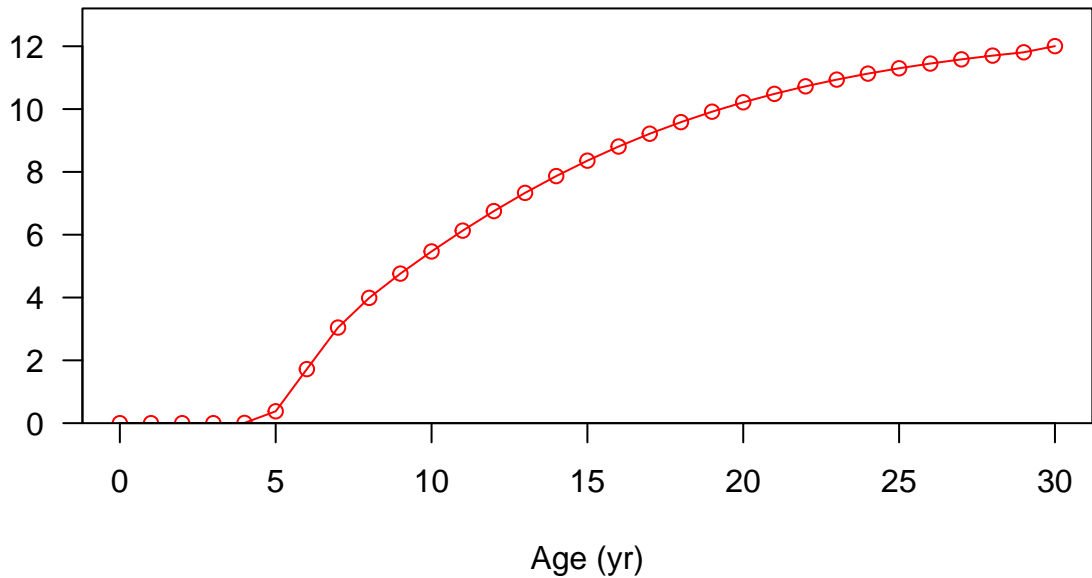
100

Female length (cm)

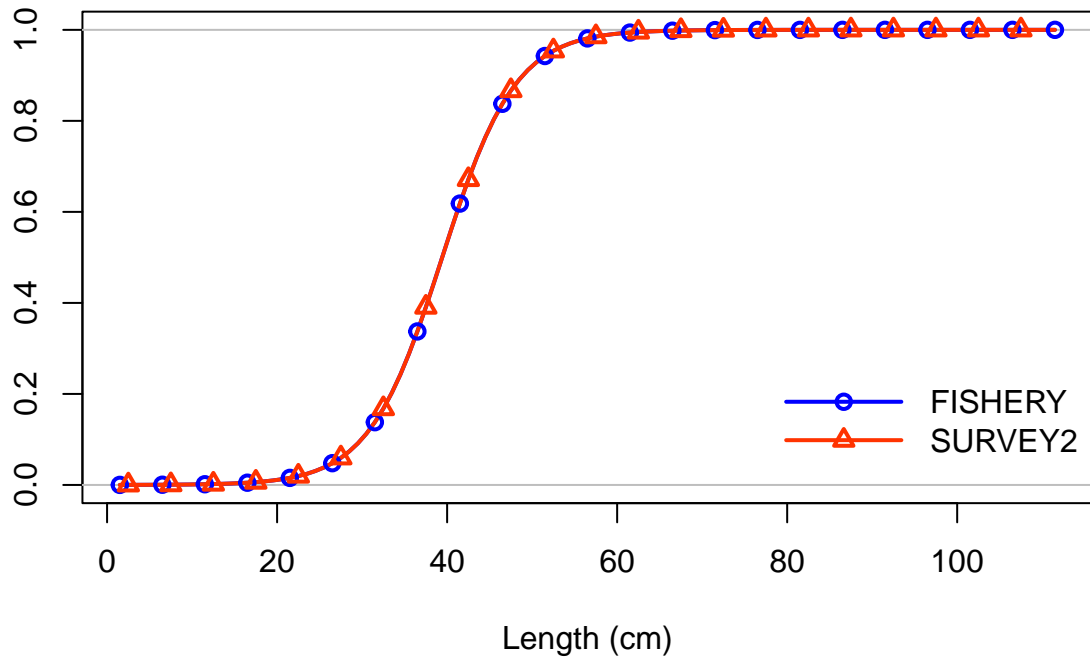




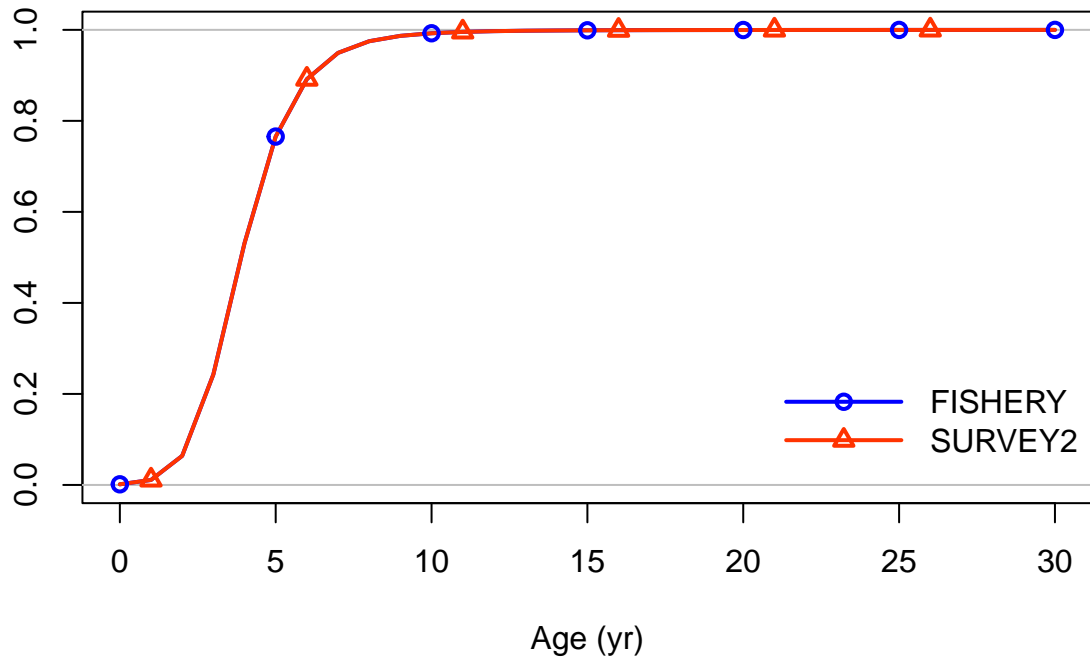
Spawning output



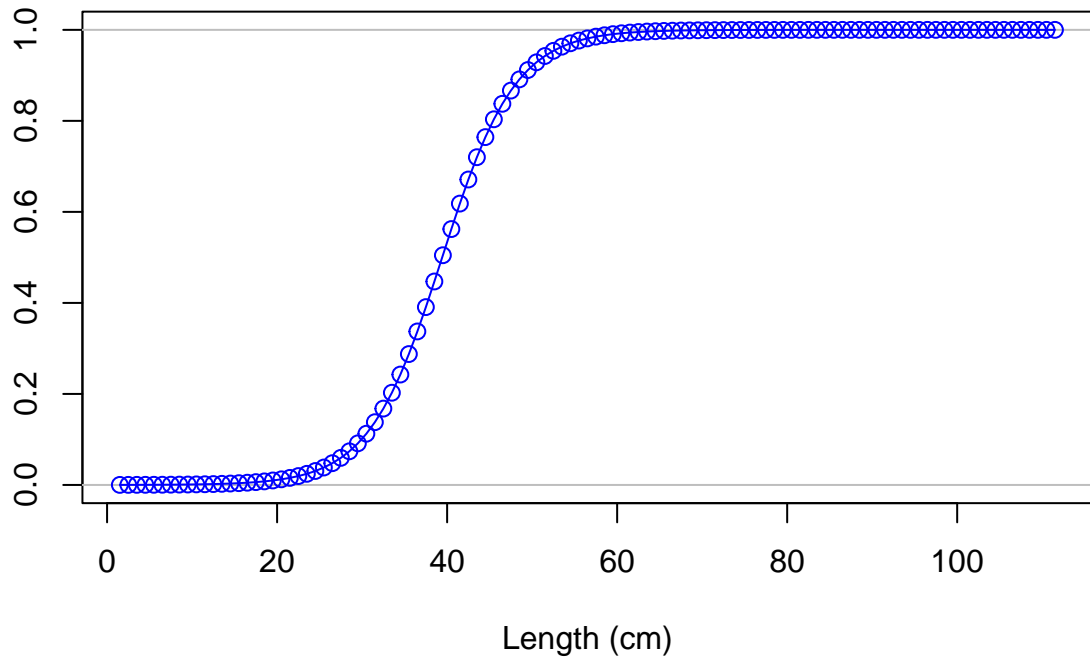
Selectivity



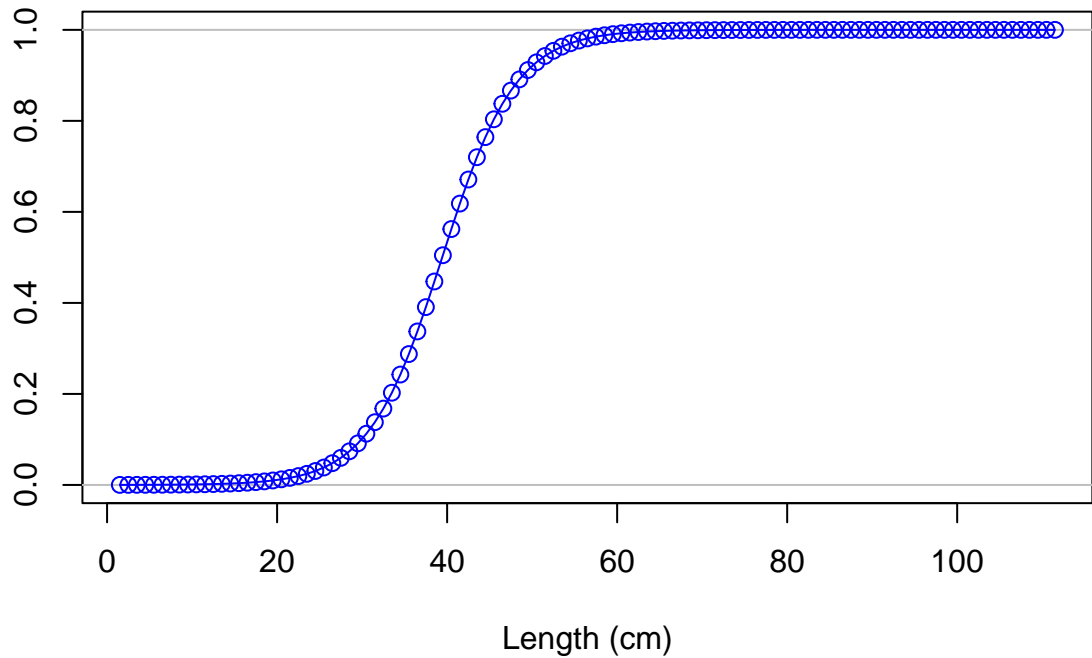
Selectivity

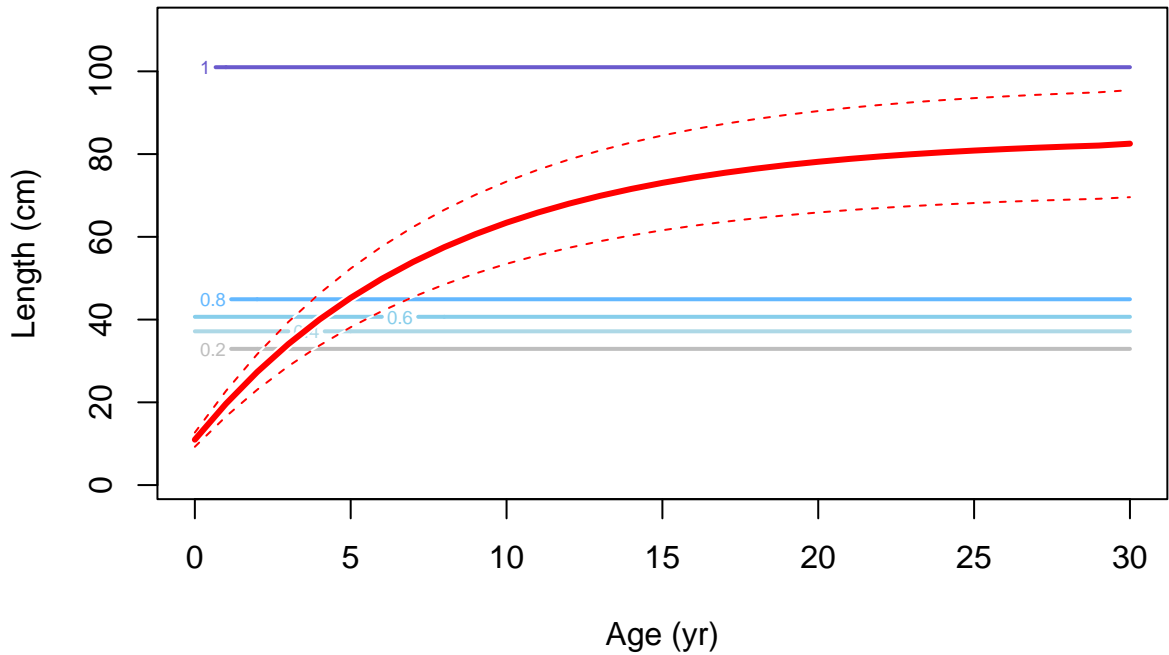


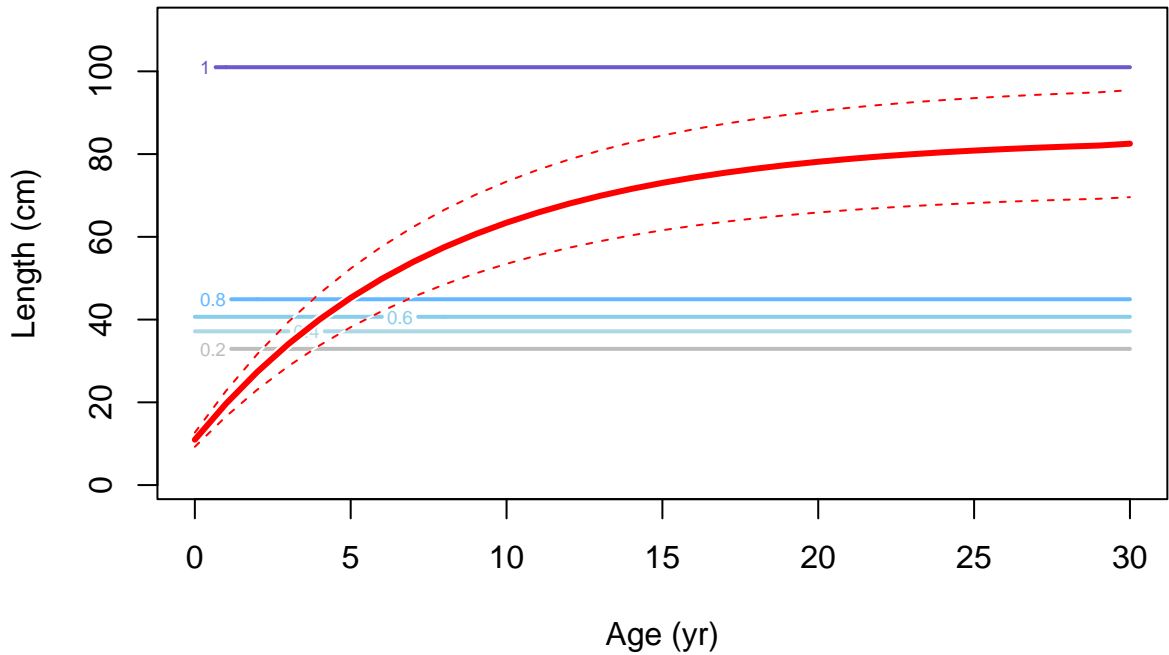
Selectivity

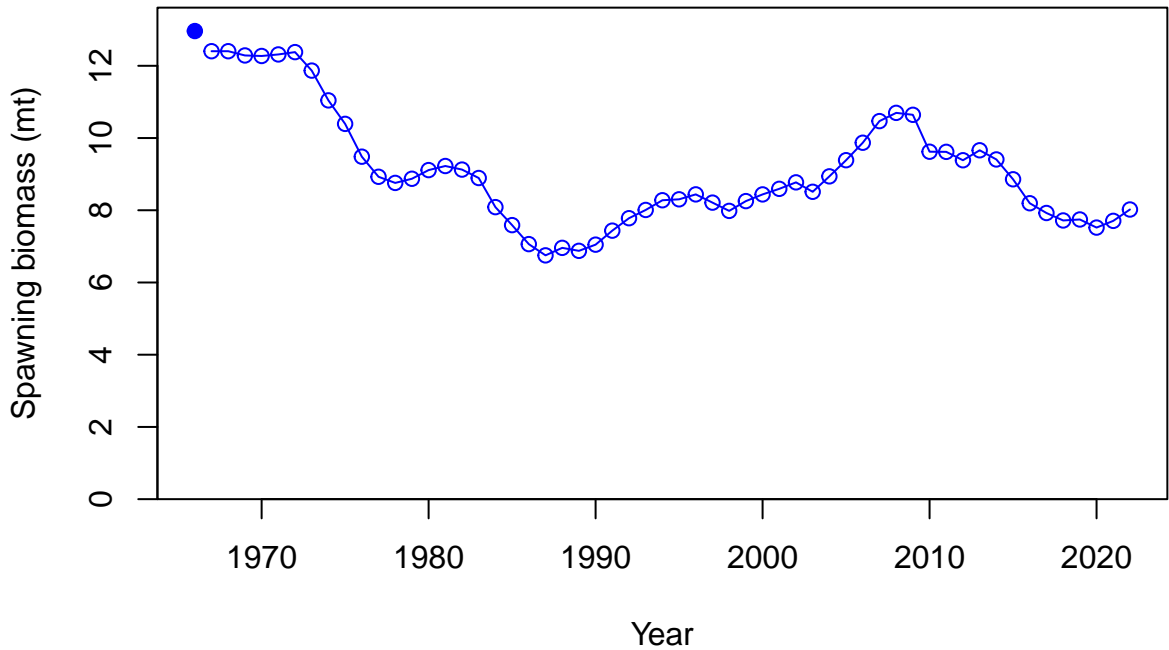


Selectivity

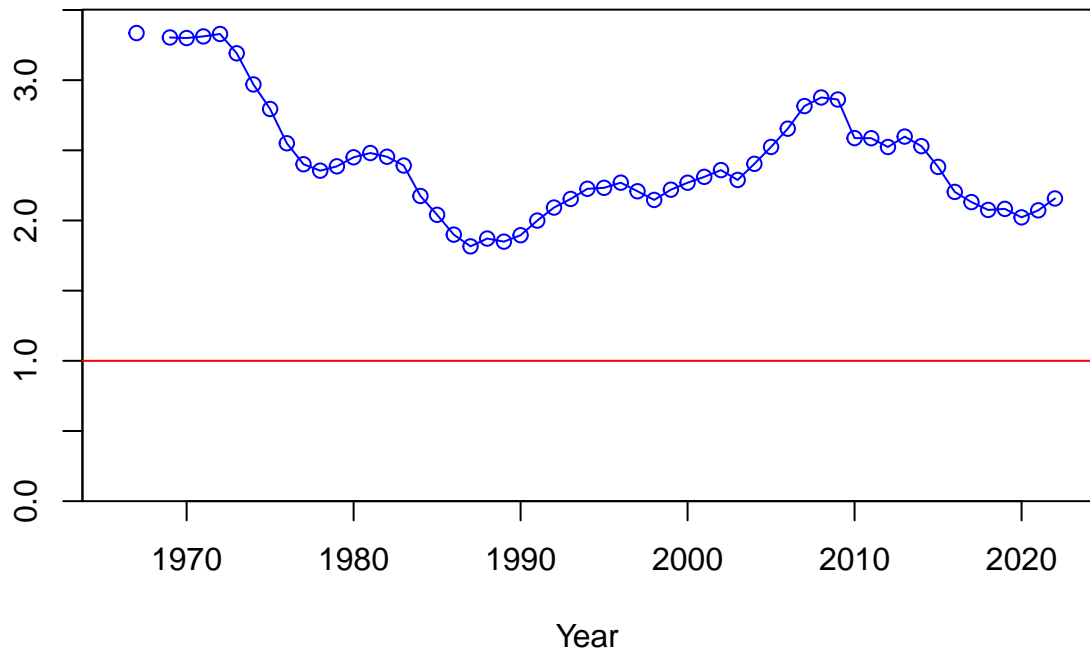


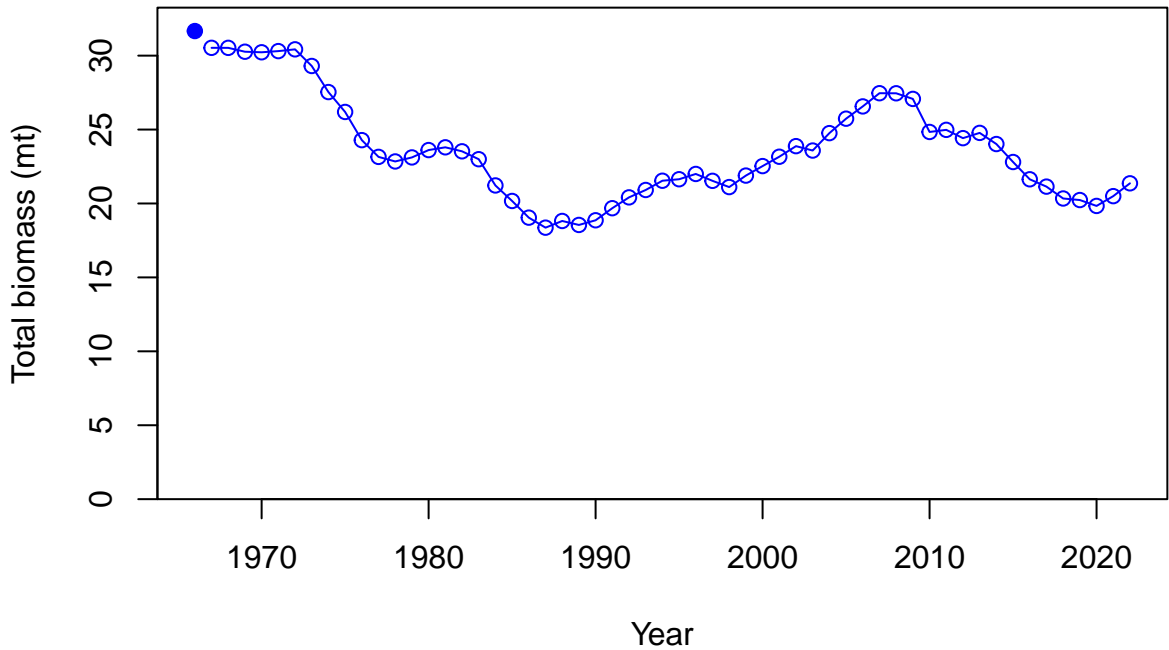


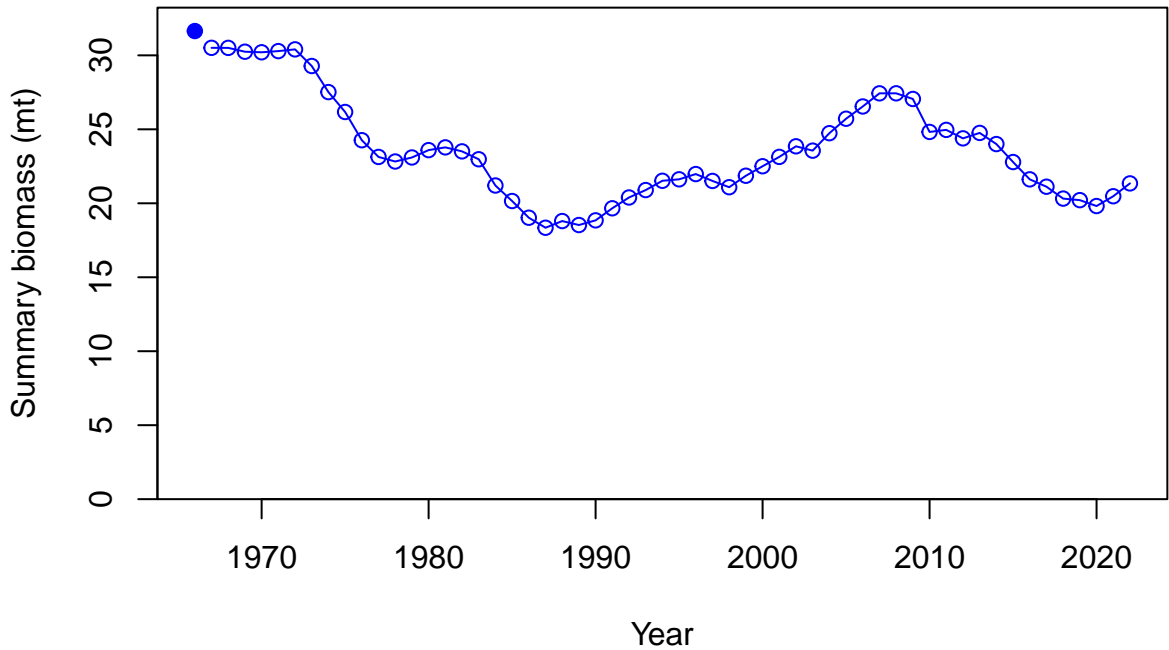


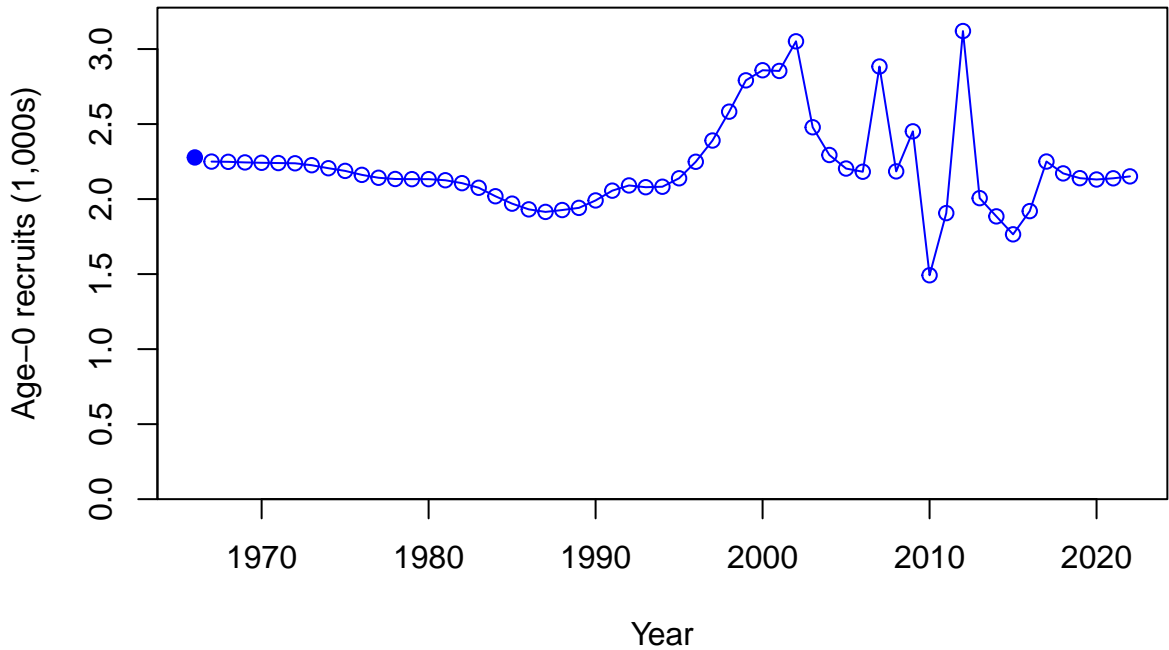


Relative spawning biomass: B/B_{MSY}

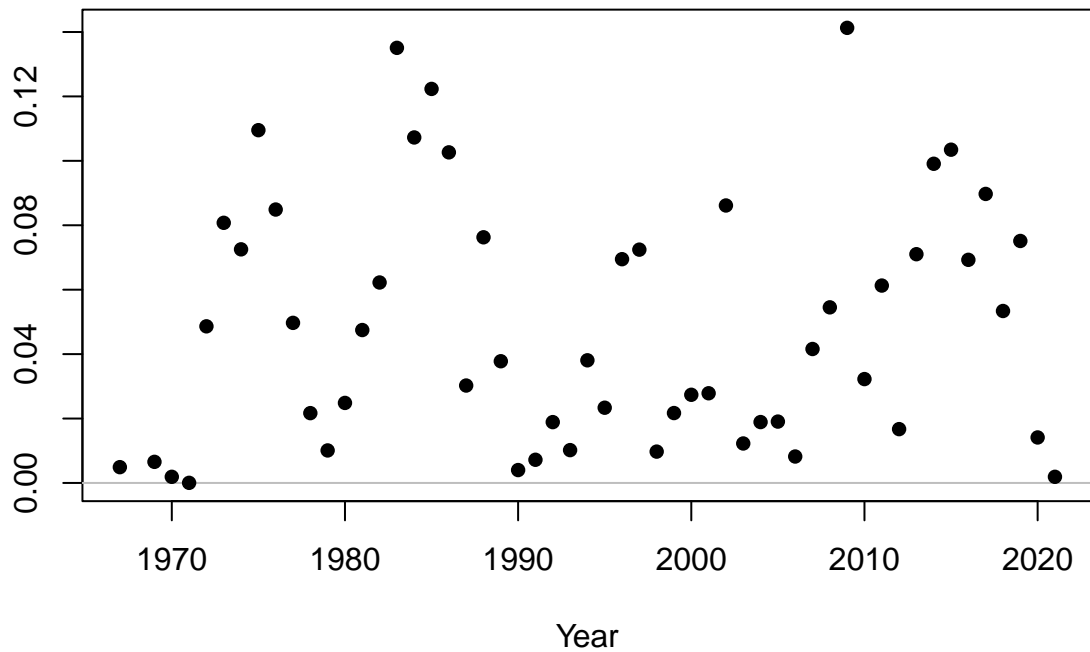


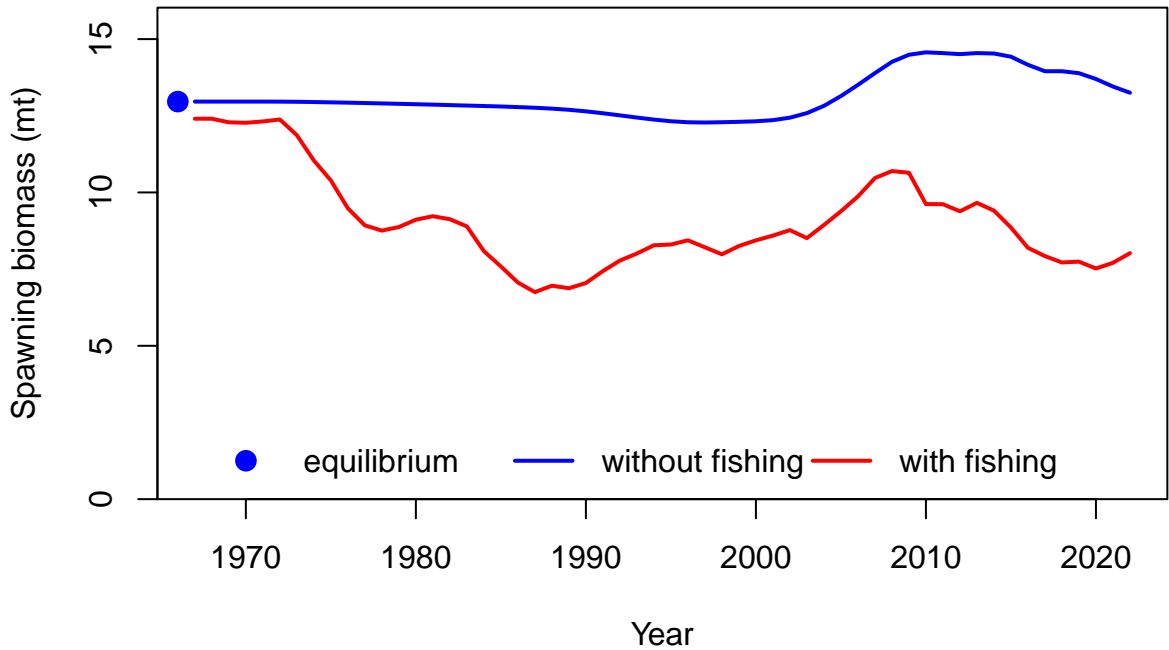




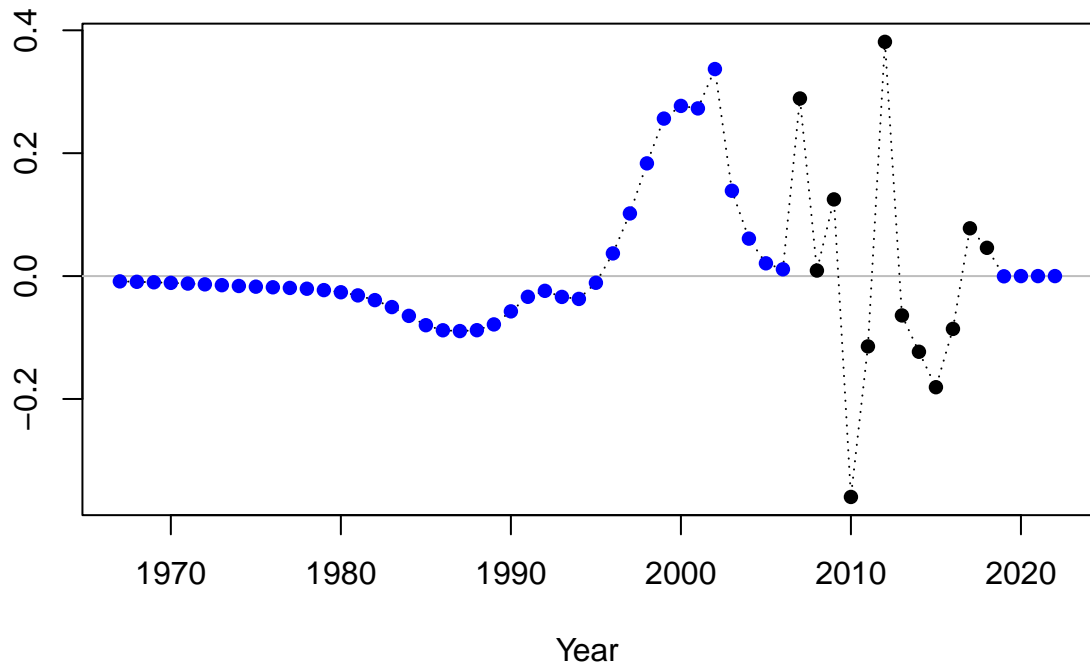


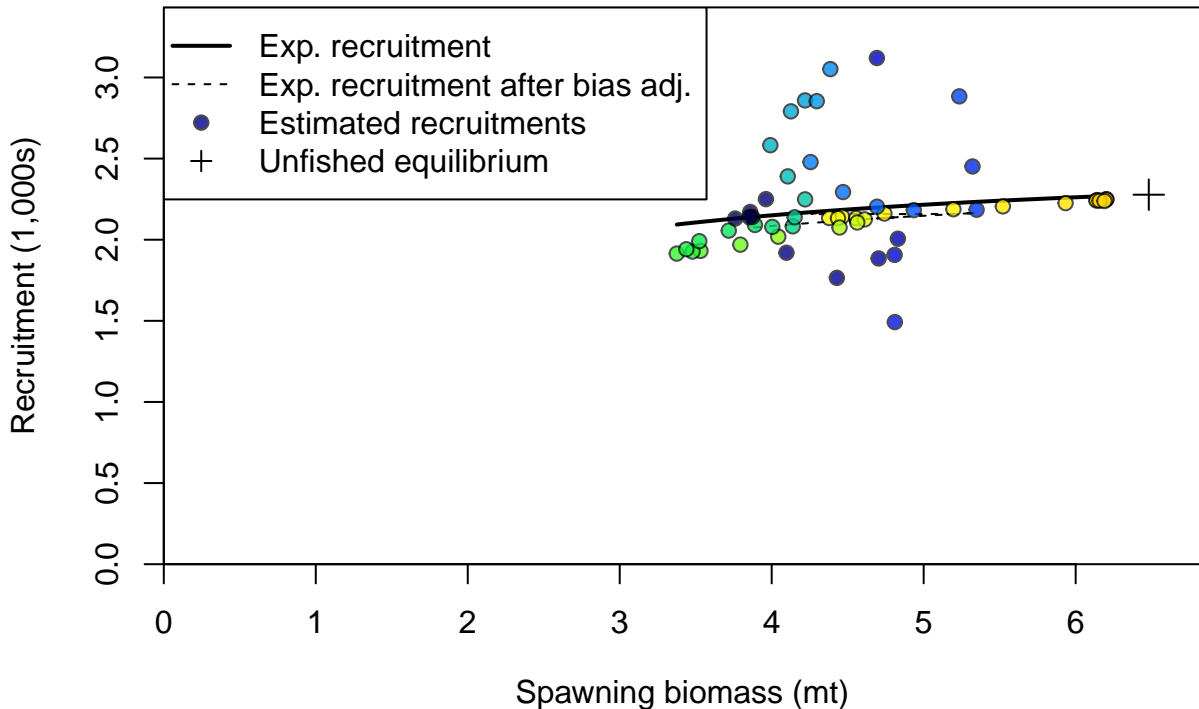
Summary Fishing Mortality

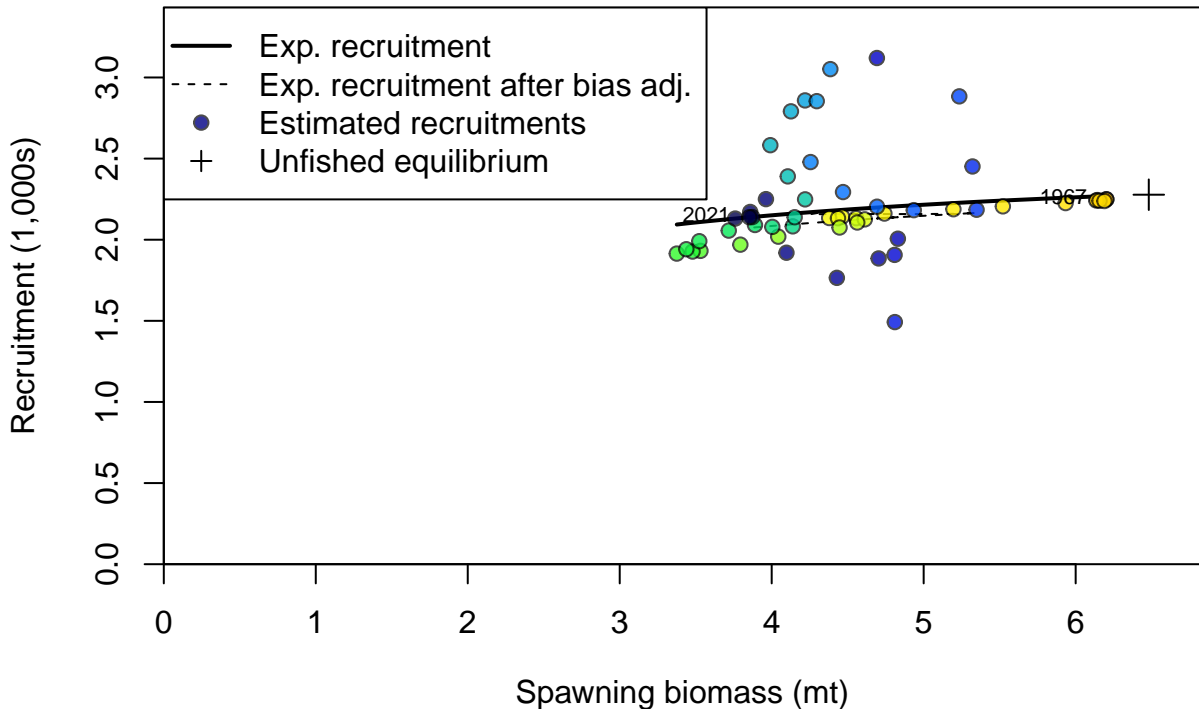




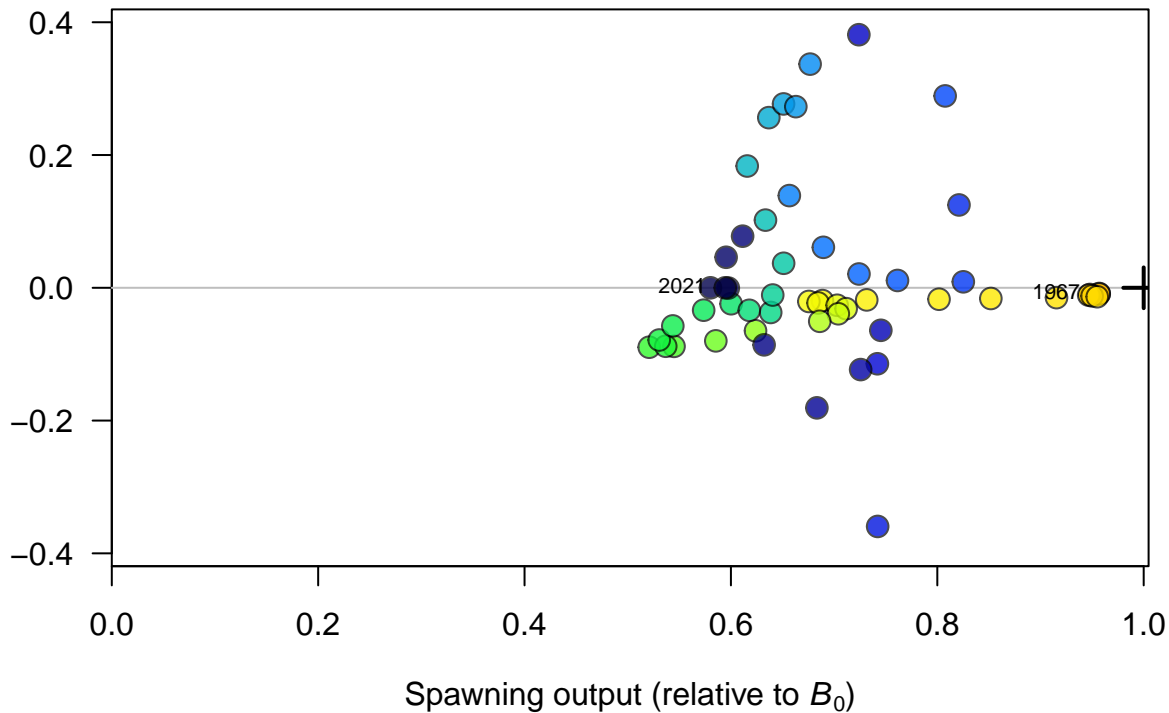
Log recruitment deviation

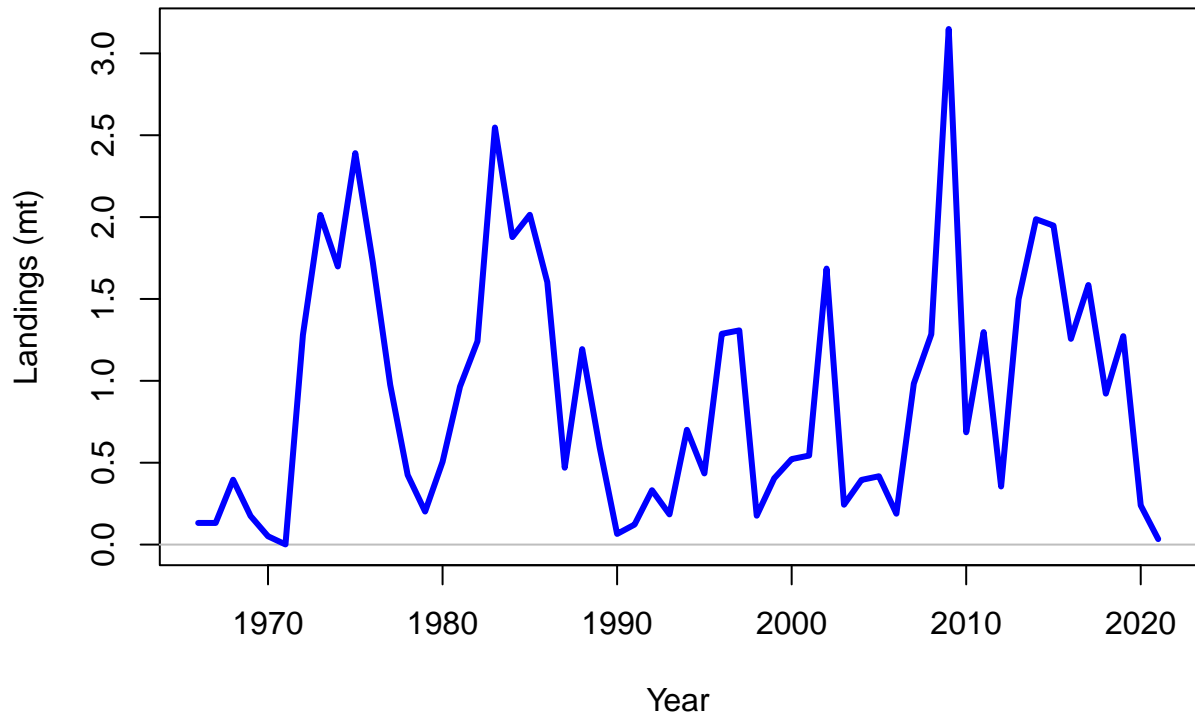


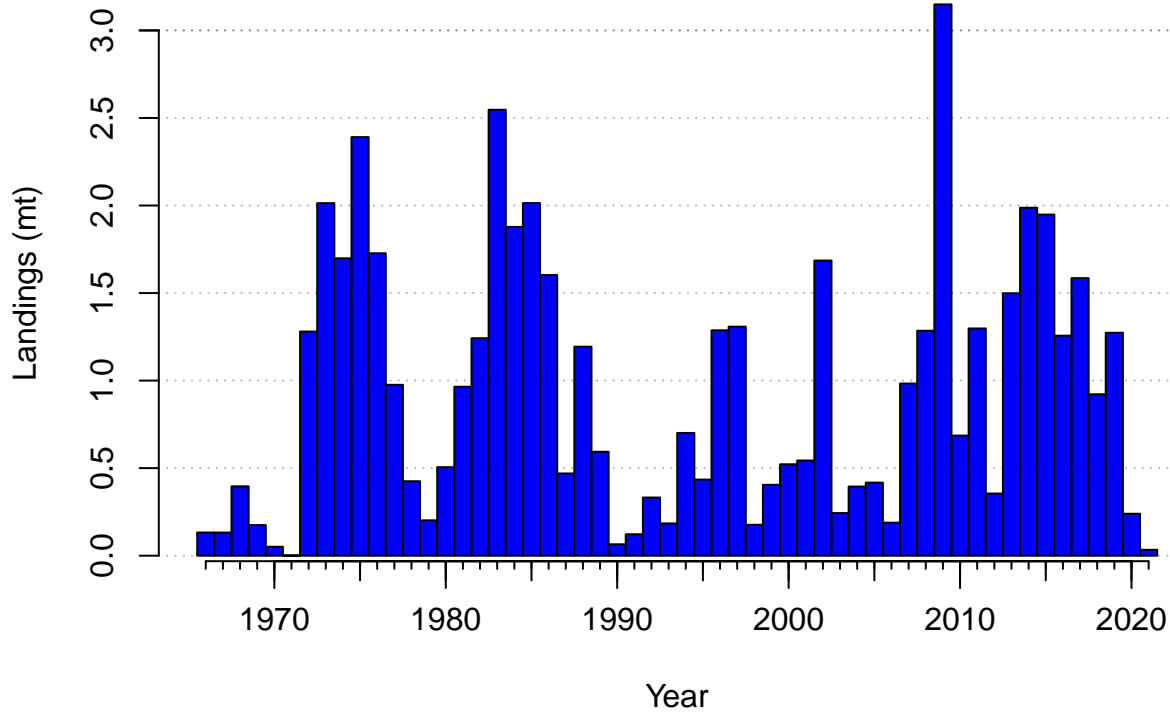




Log recruitment deviation







Observed and expected Landings (mt)

FISHERY
FISHERY obs.

3.0
2.5
2.0
1.5
1.0
0.5
0.0

1970

1980

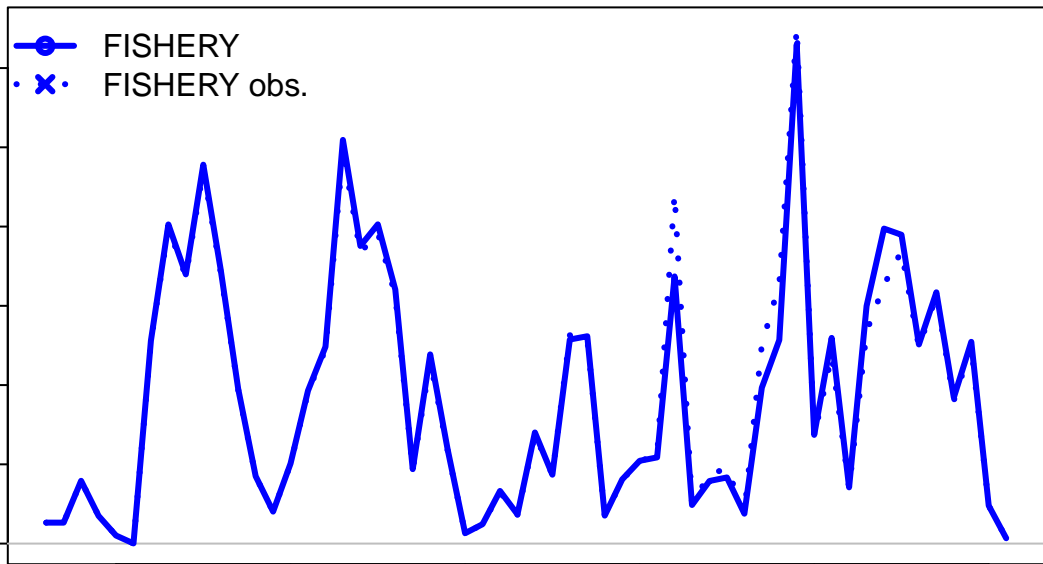
1990

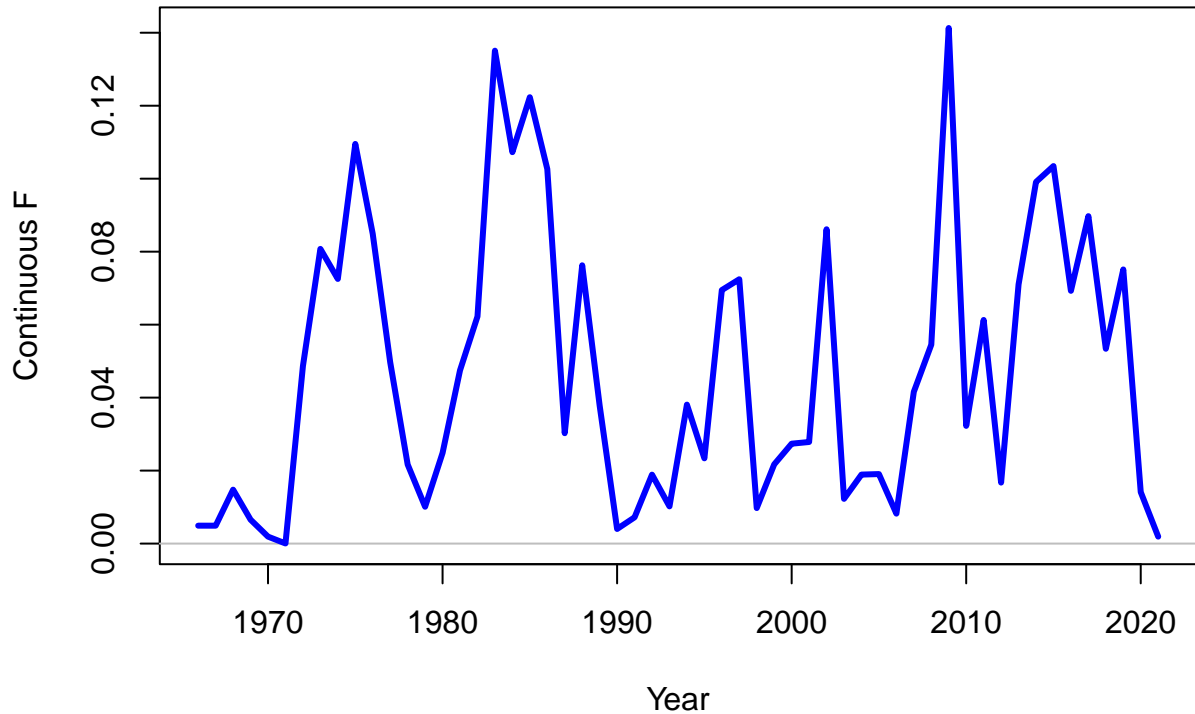
2000

2010

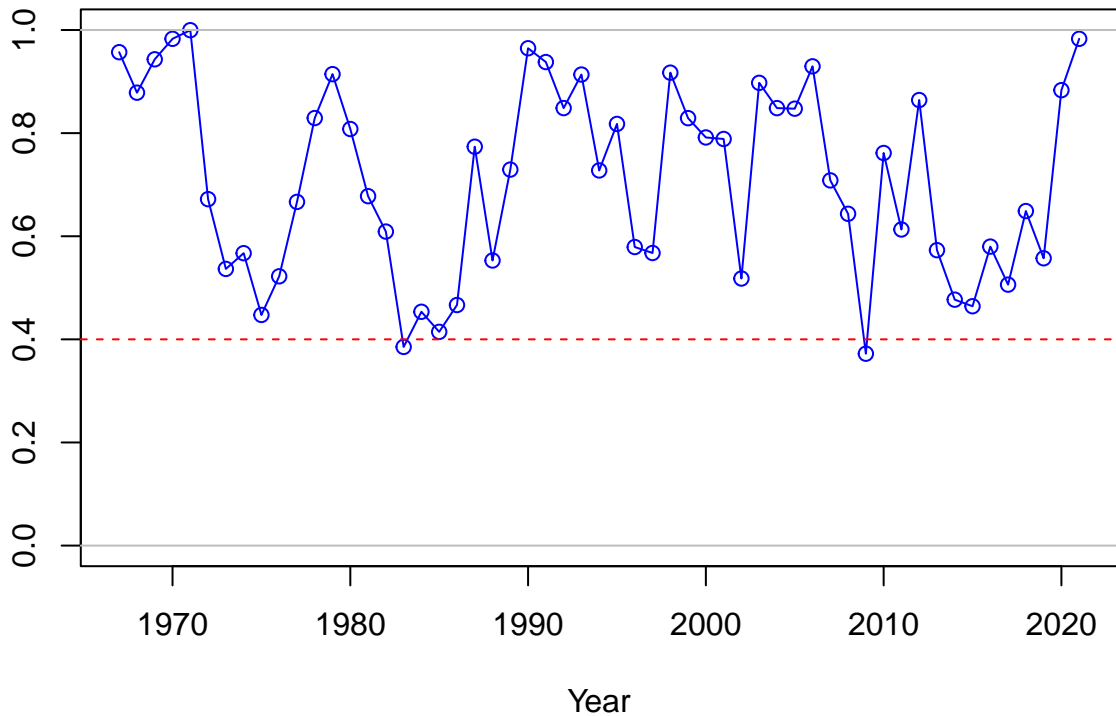
2020

Year

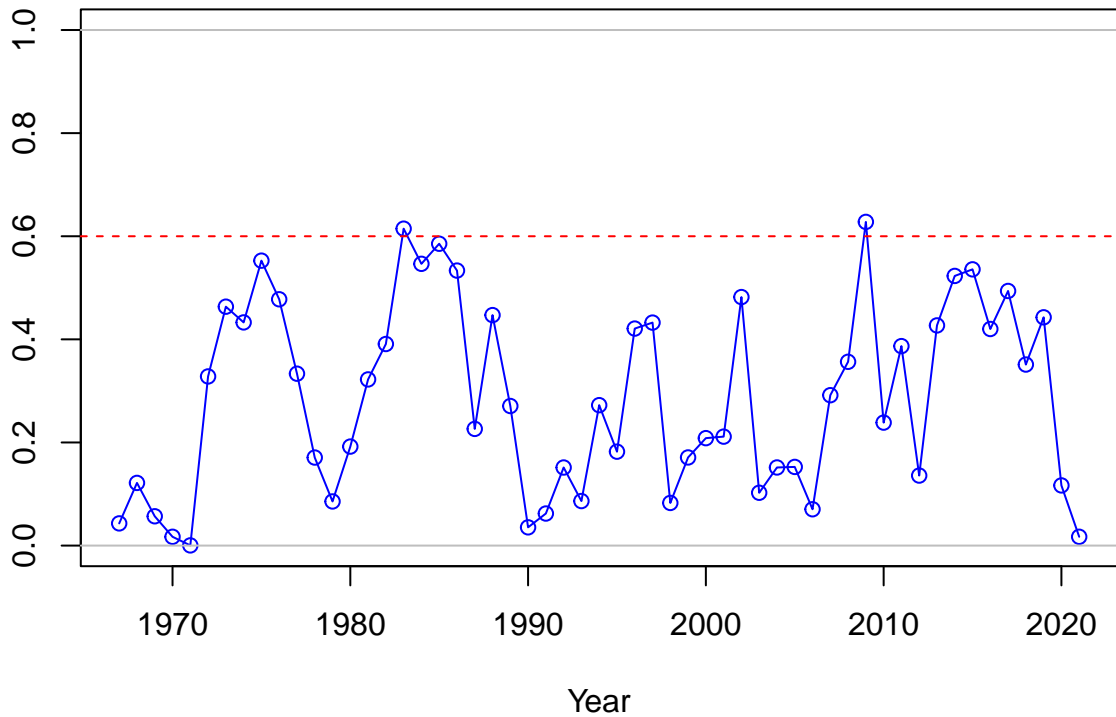




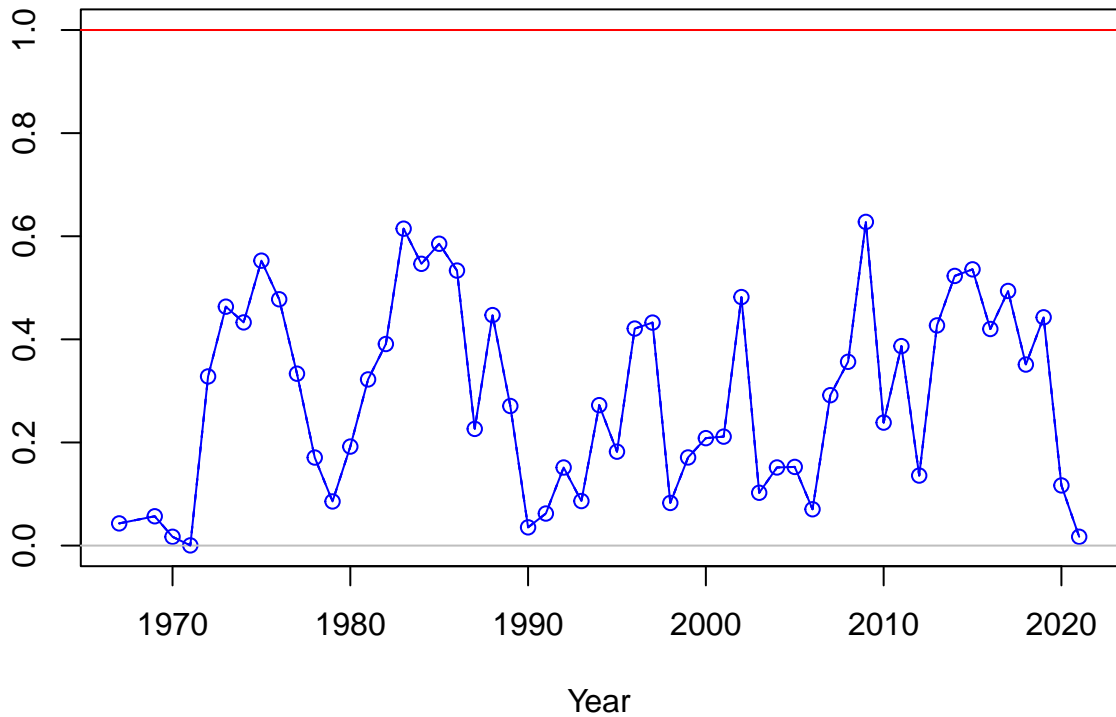
SPR



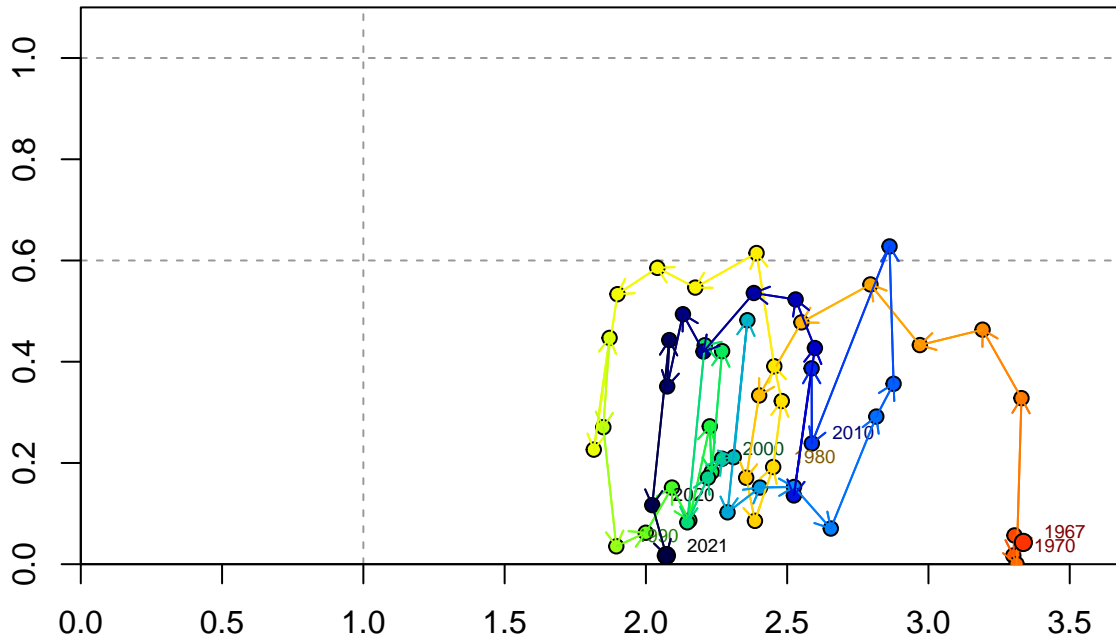
1-SPR



Fishing intensity: 1-SPR

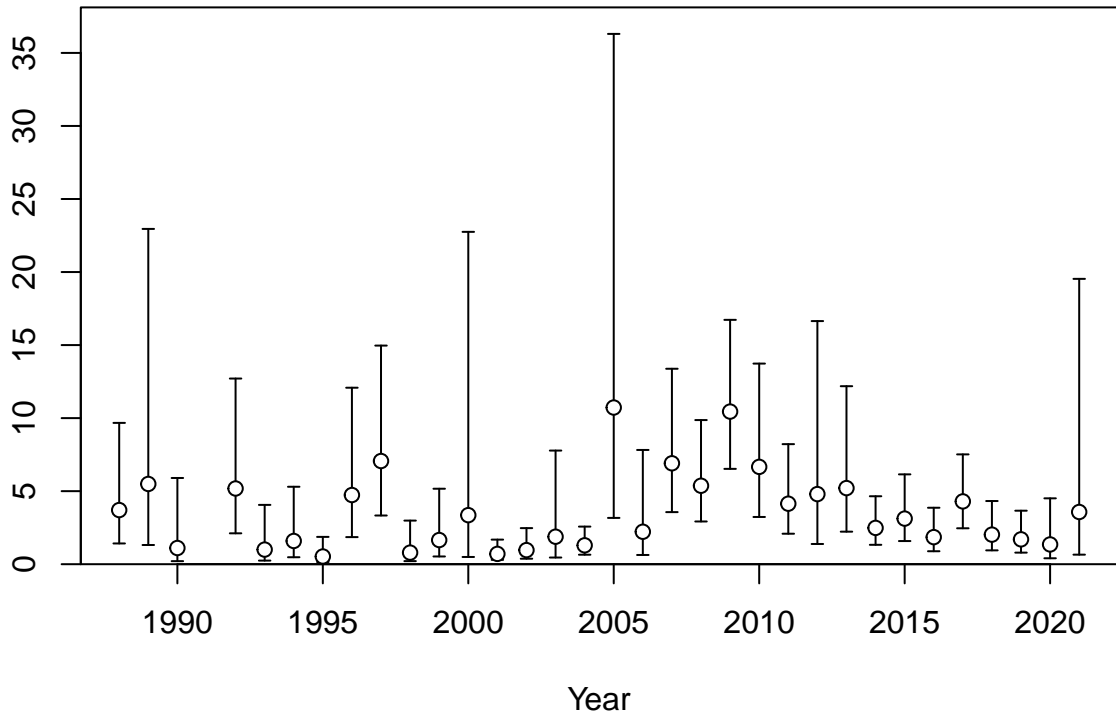


Fishing intensity: 1-SPR

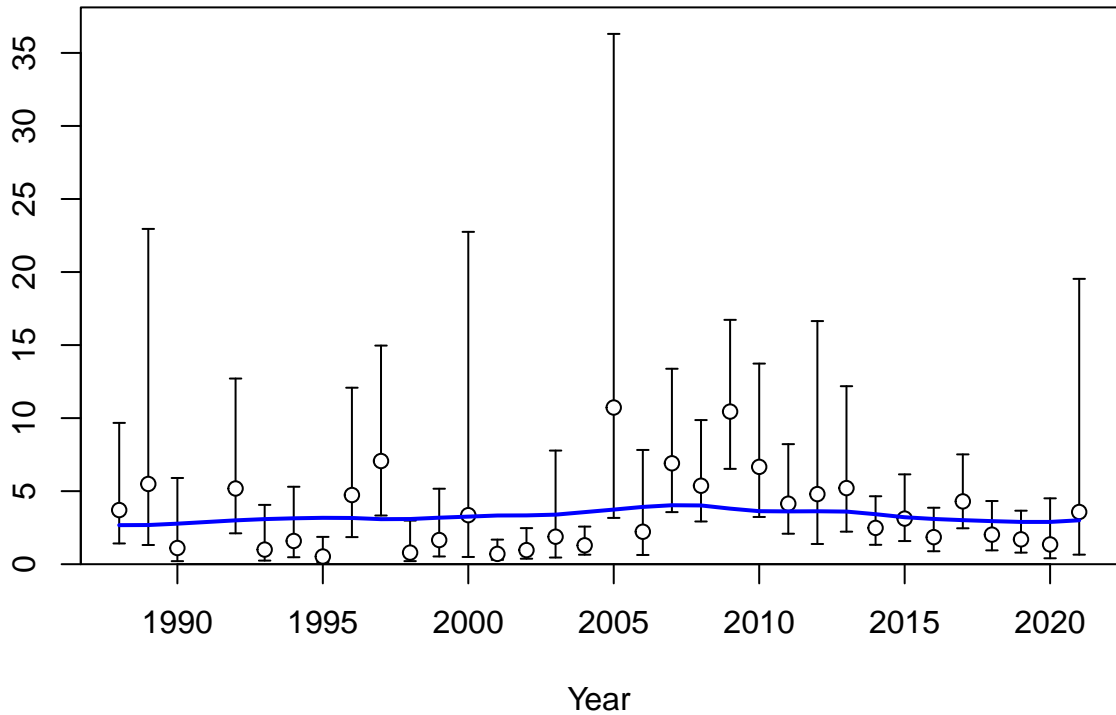


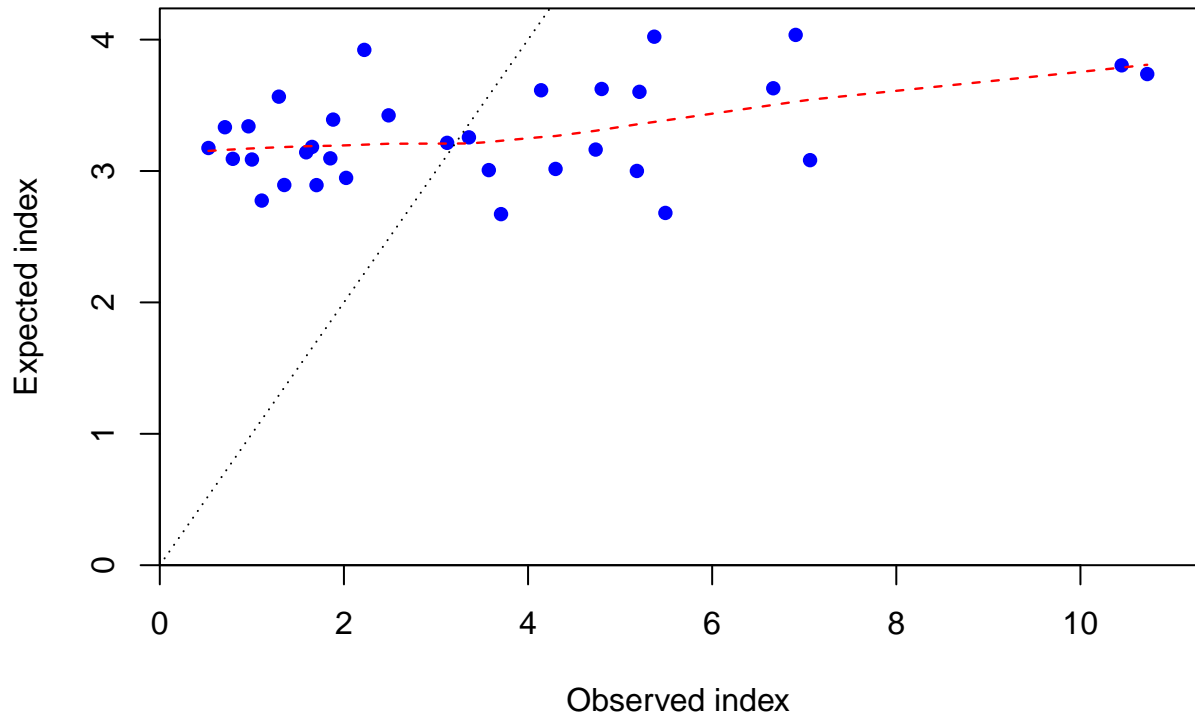
Relative spawning output: B/B_{MSY}

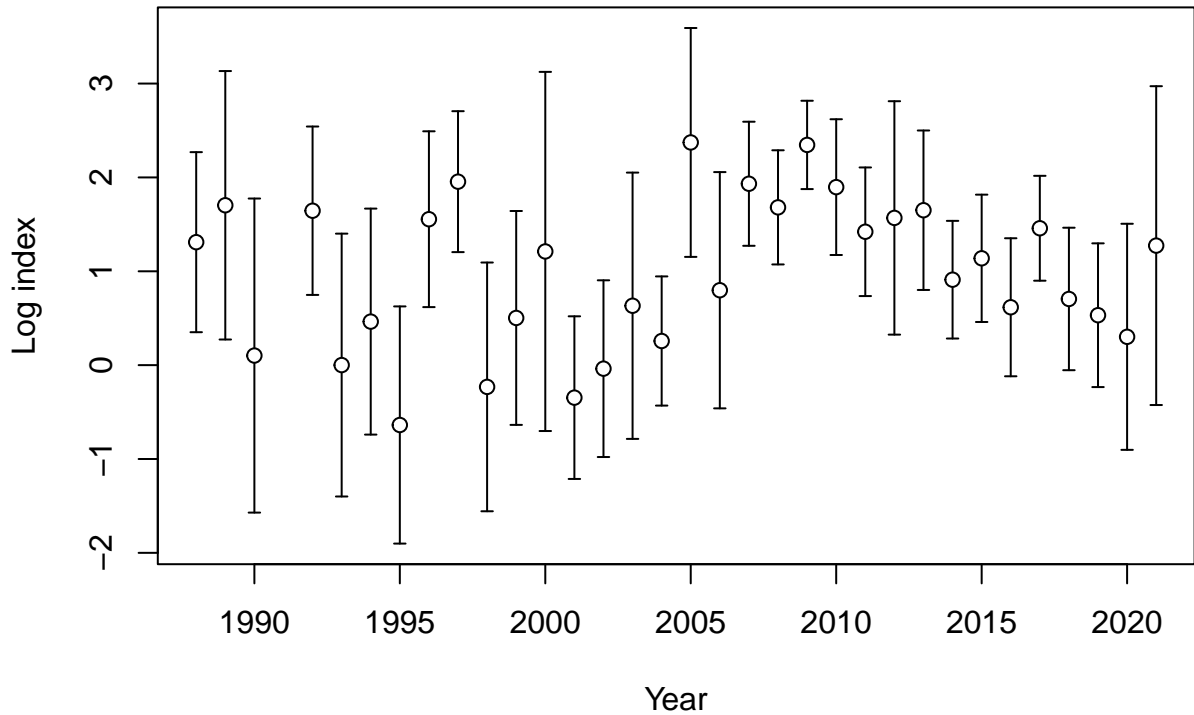
Index

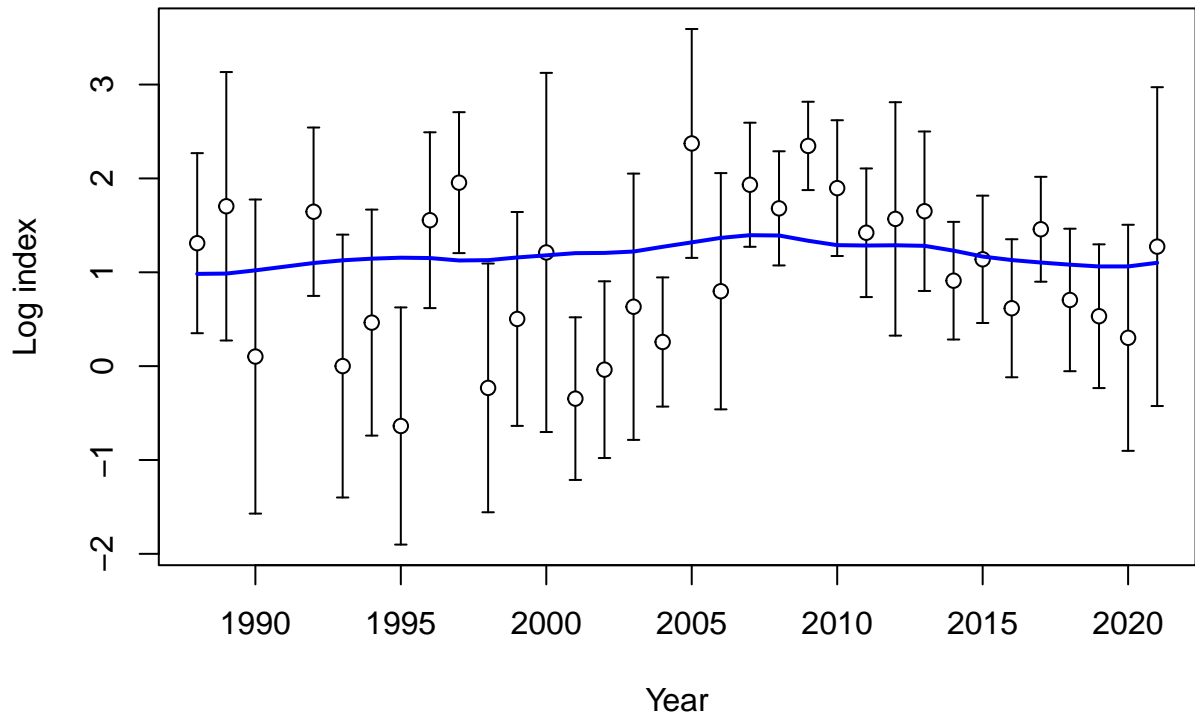


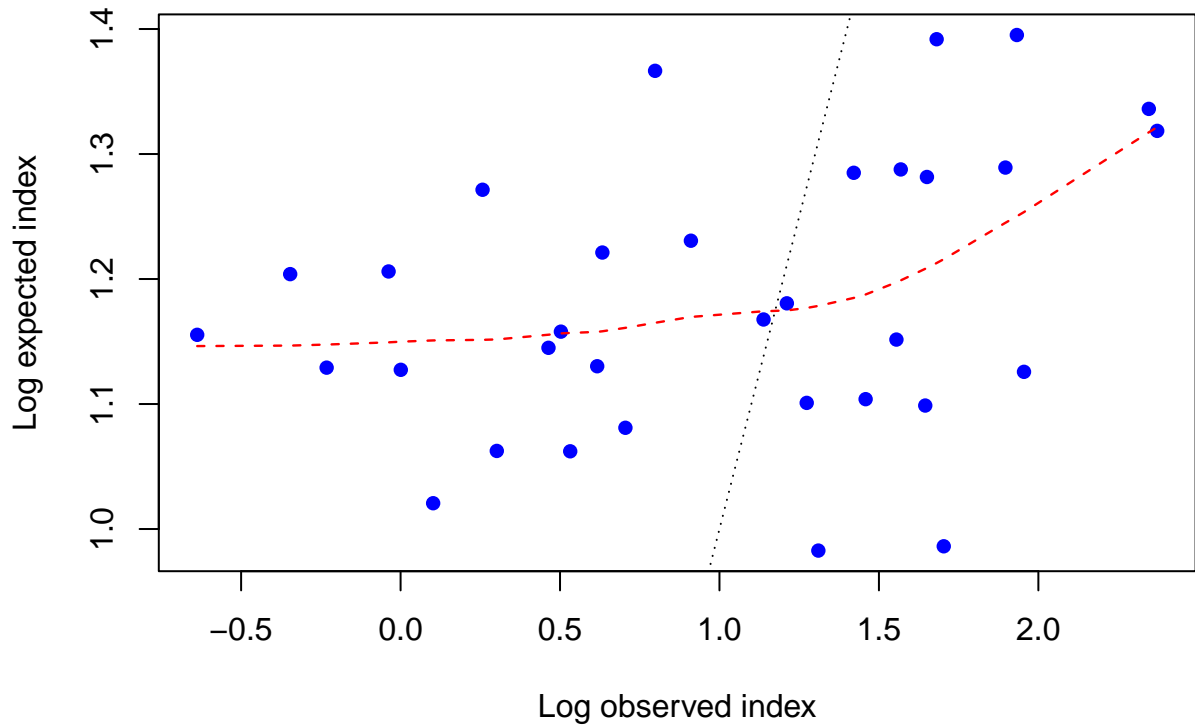
Index

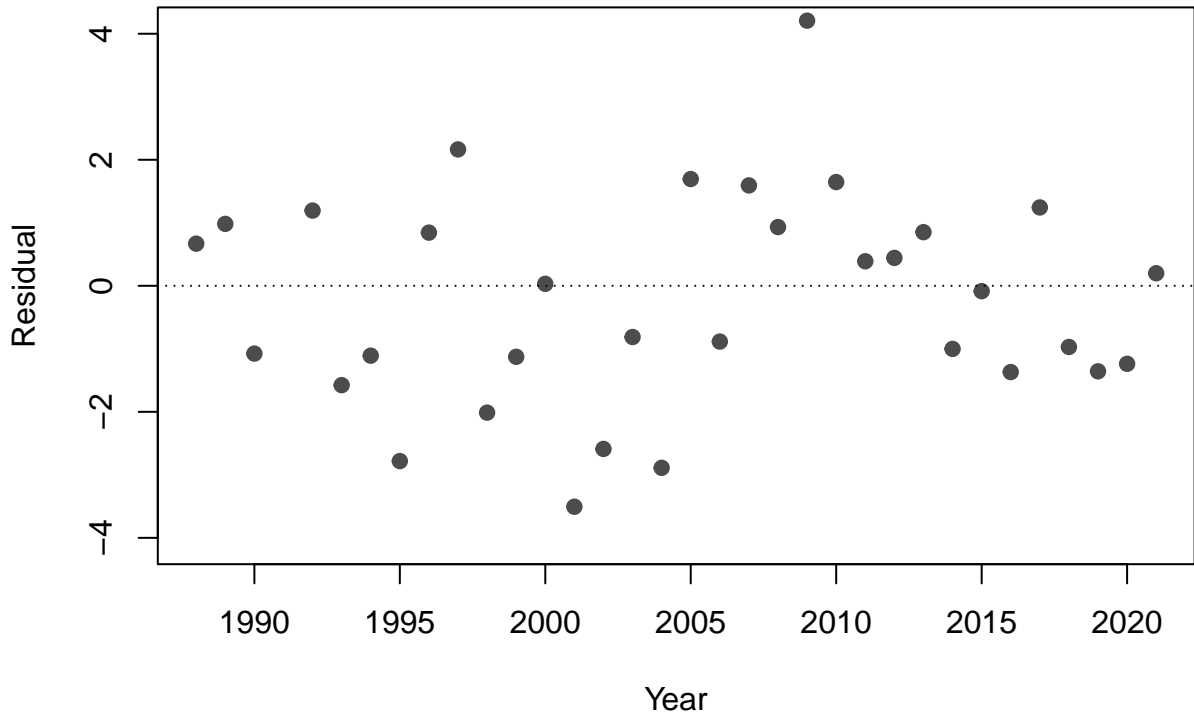


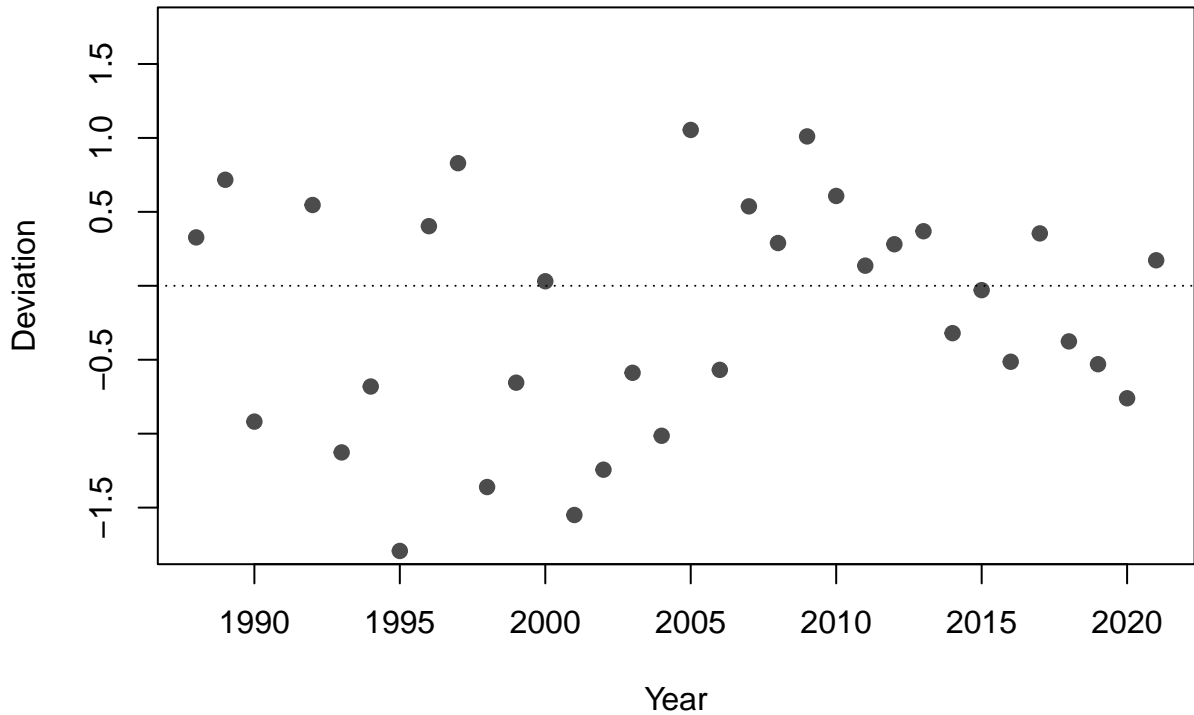


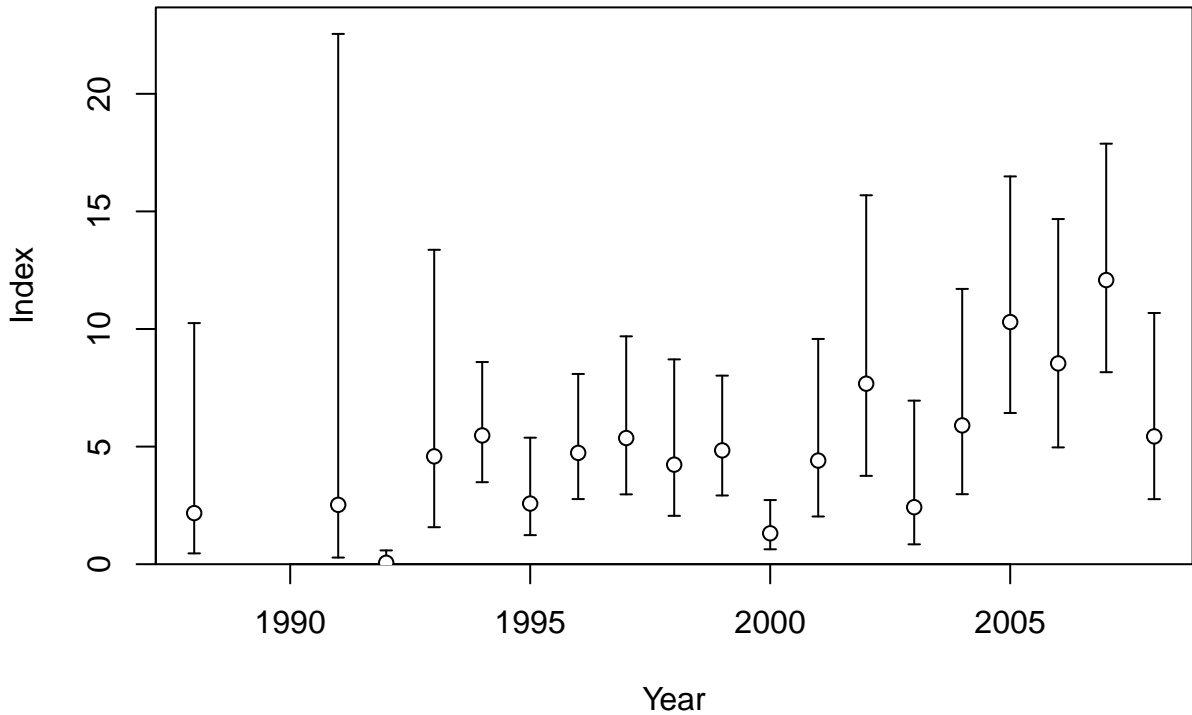


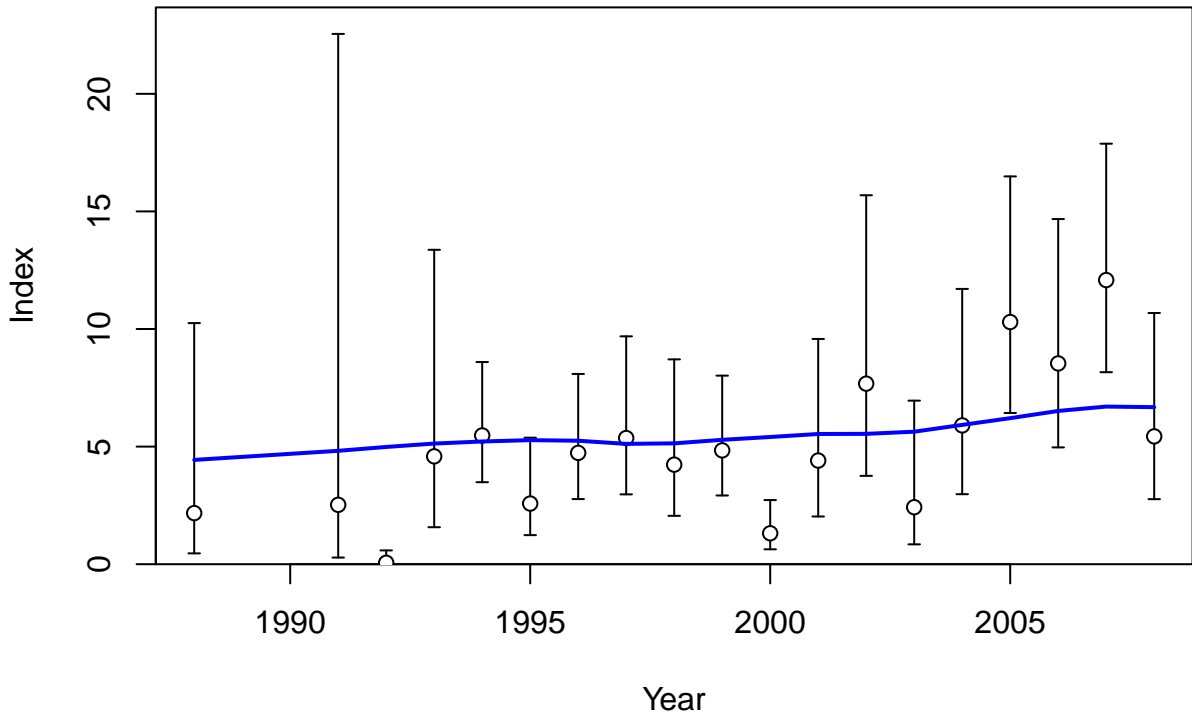


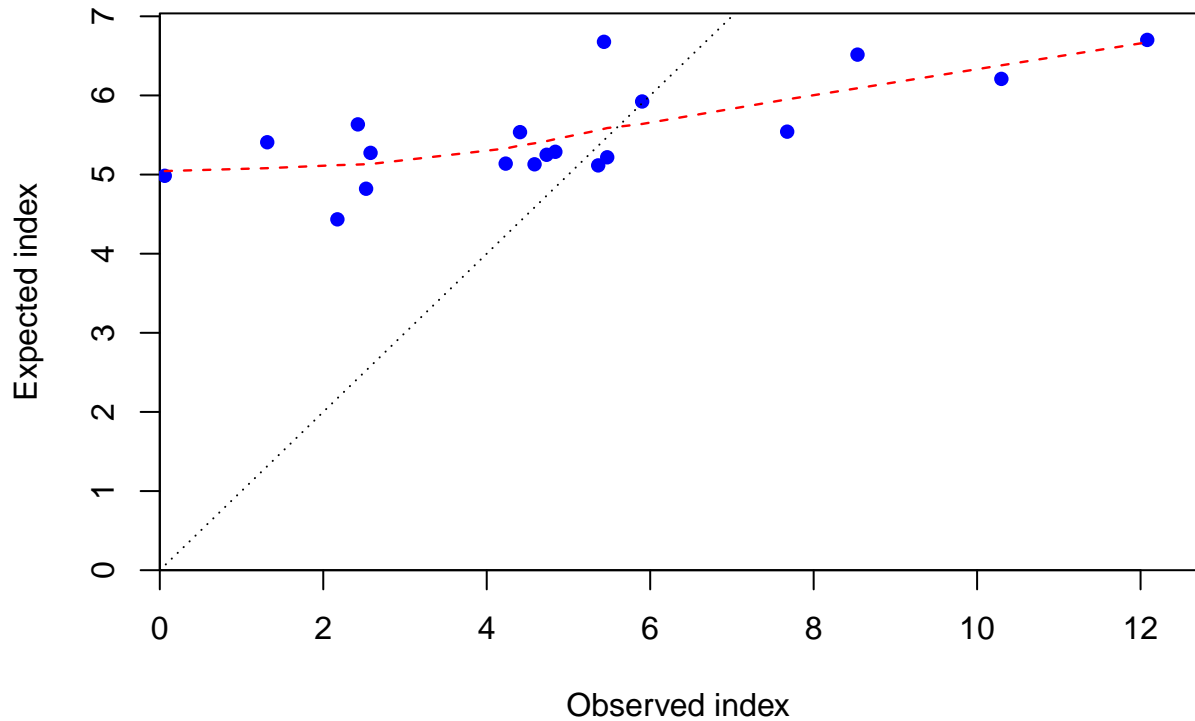


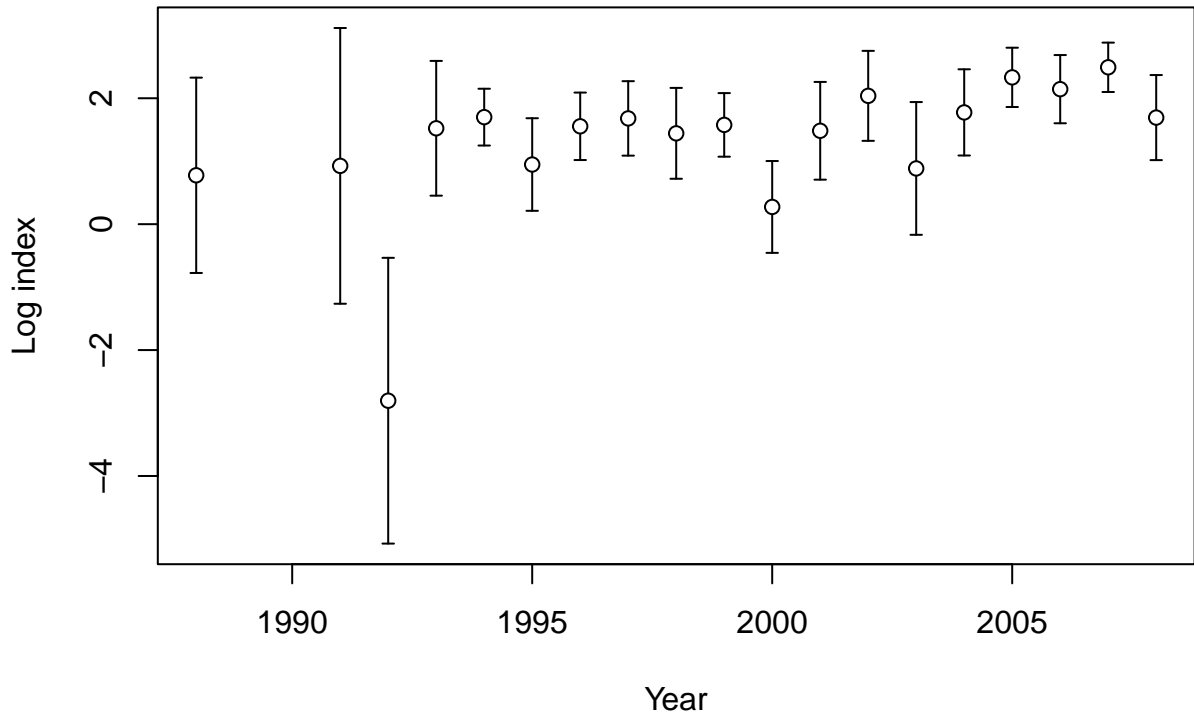


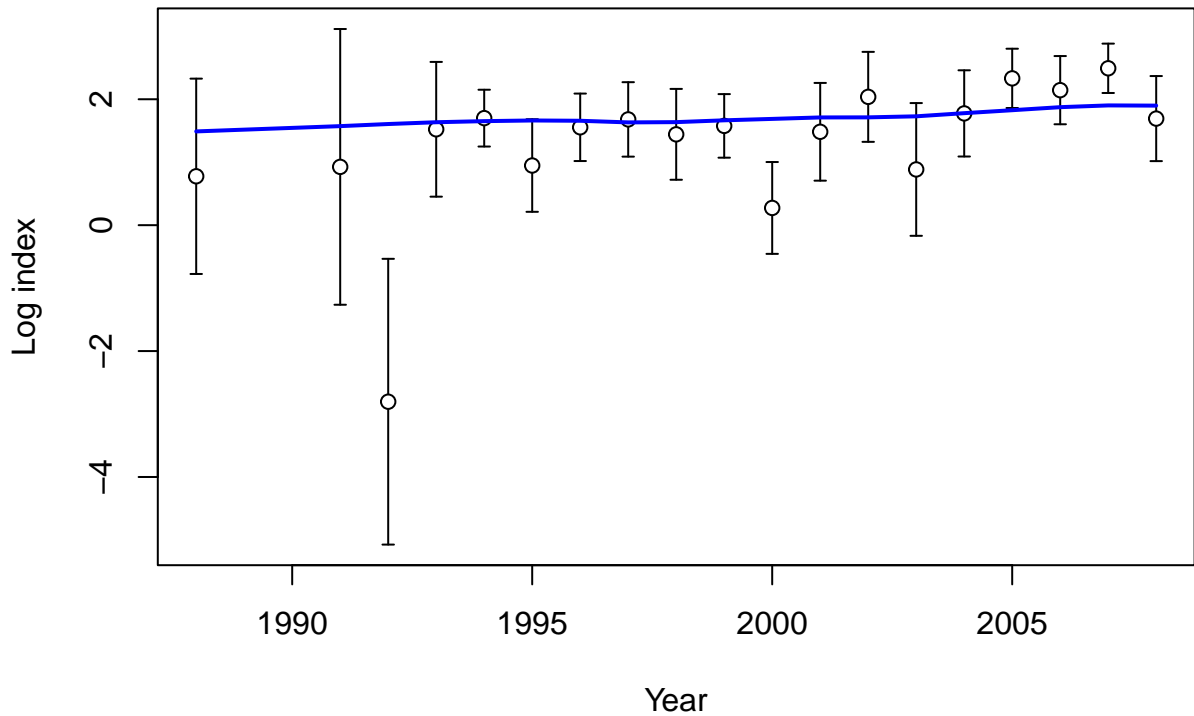


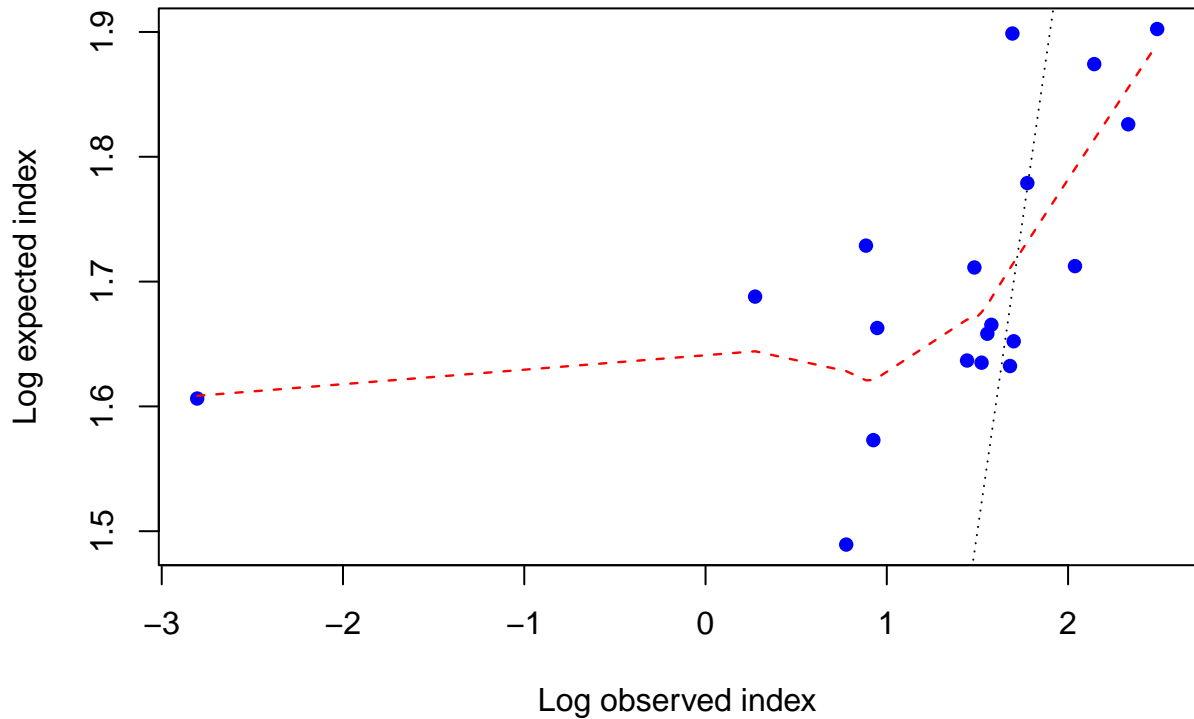


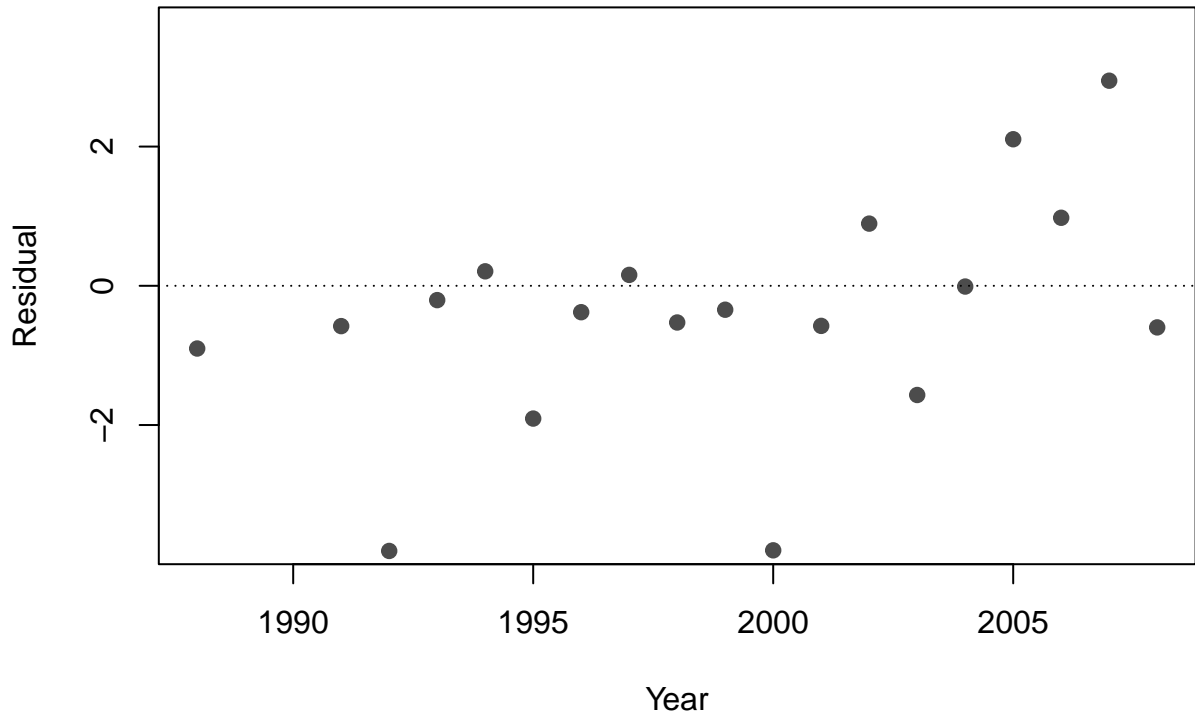


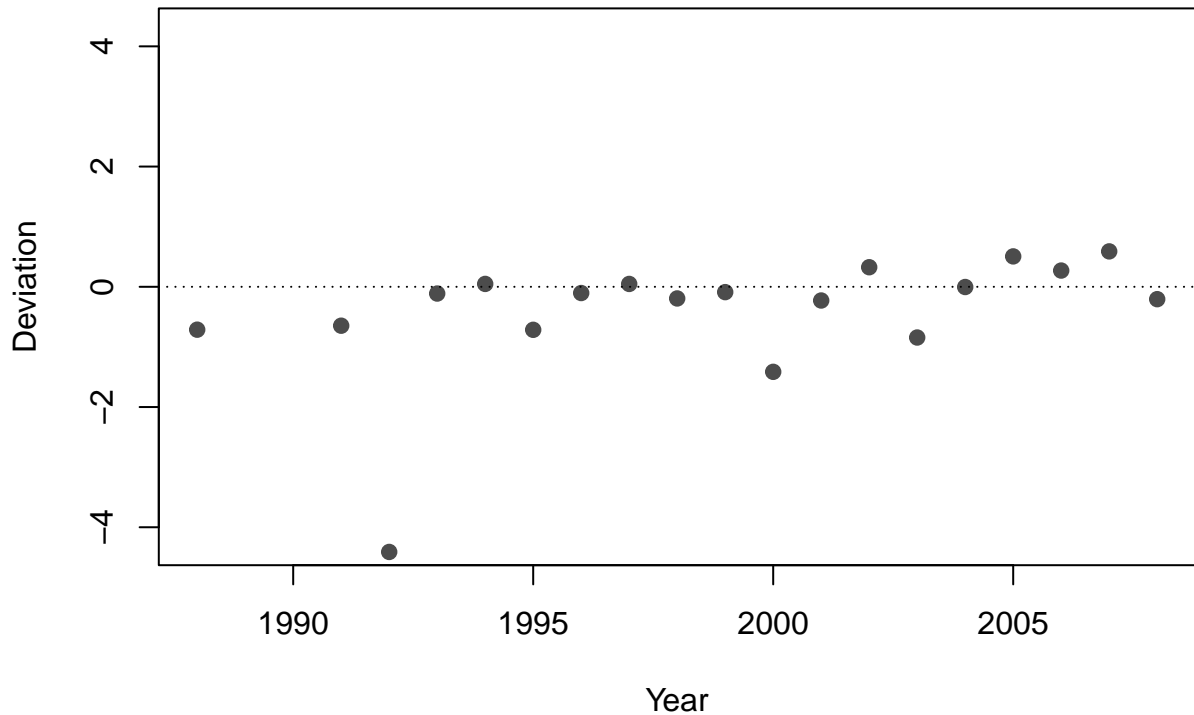




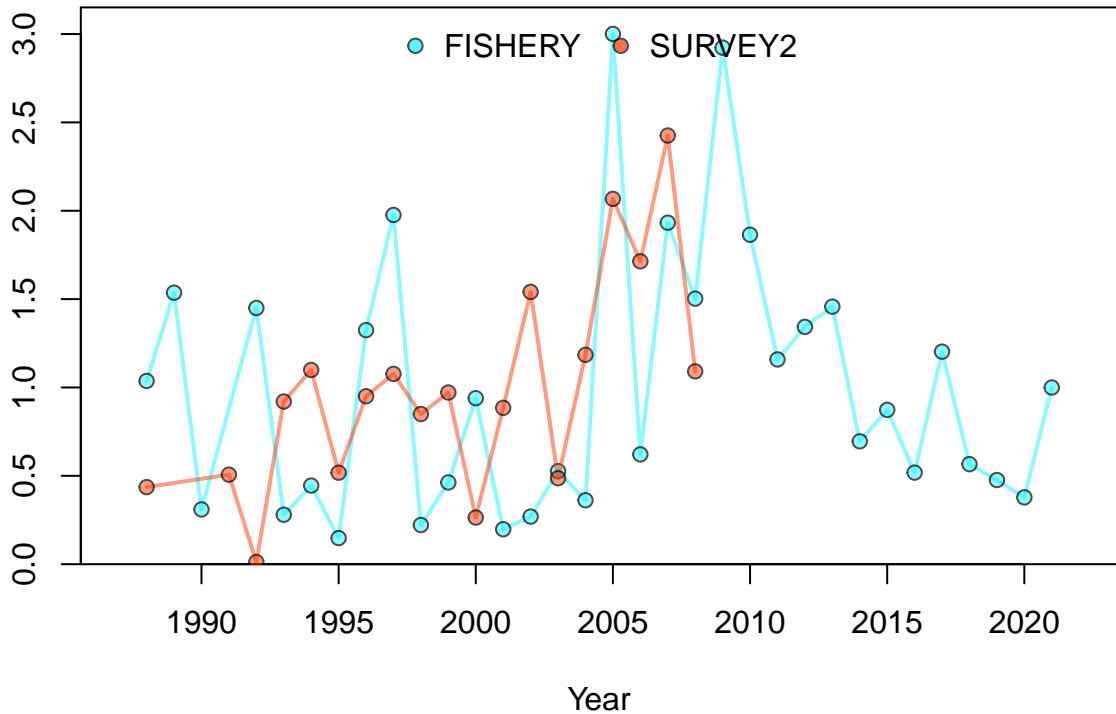


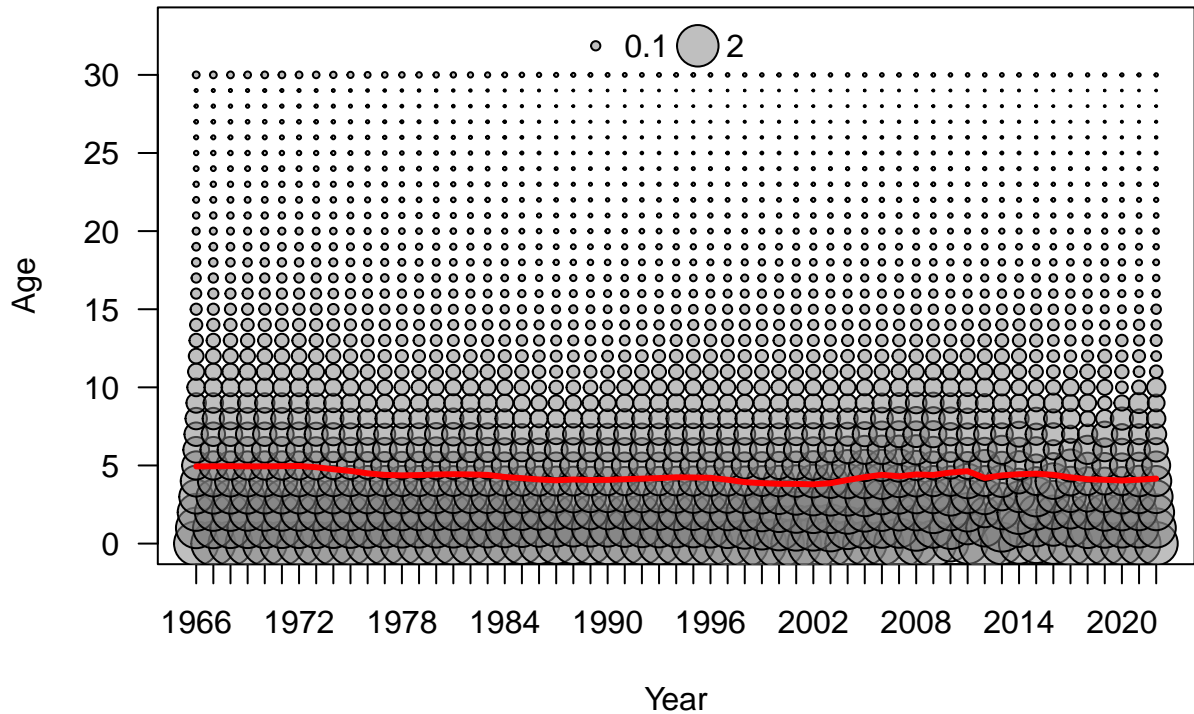


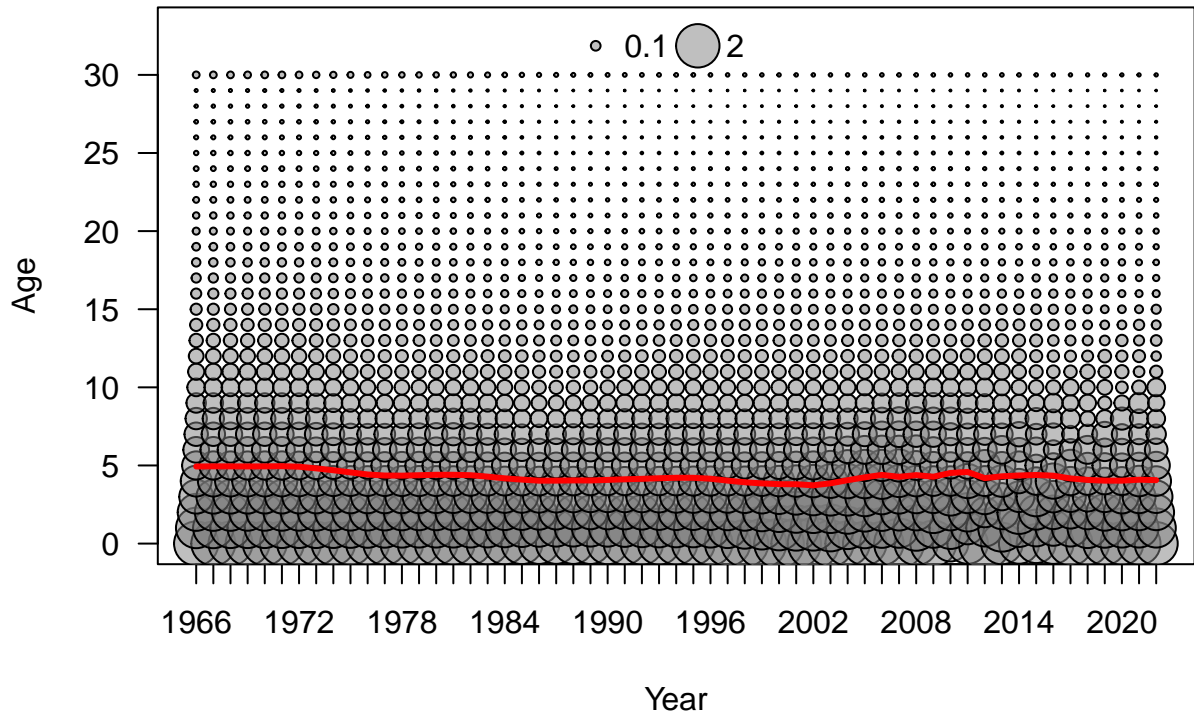


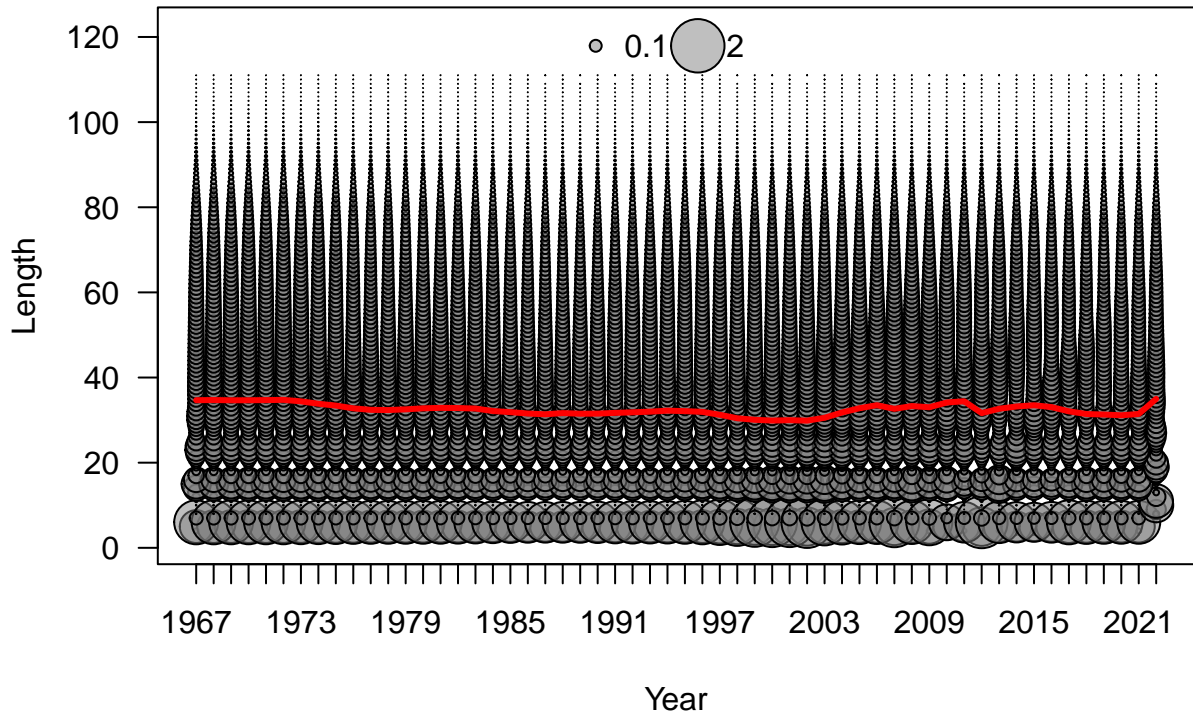


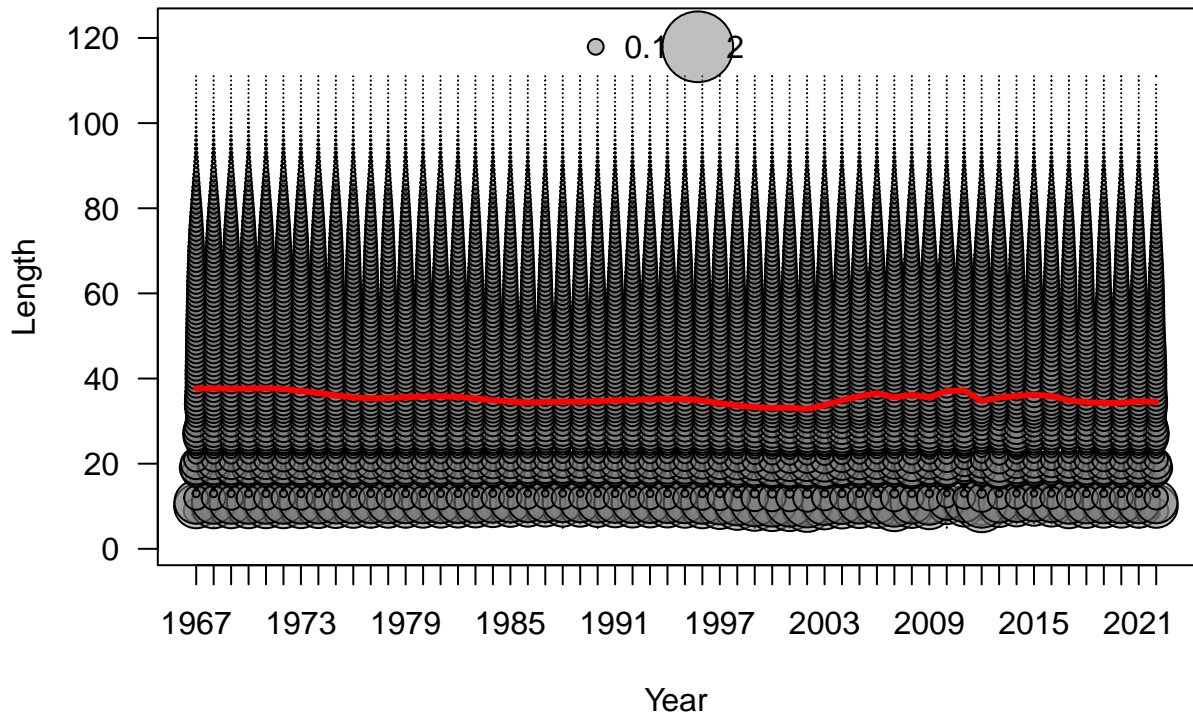
Standardized index

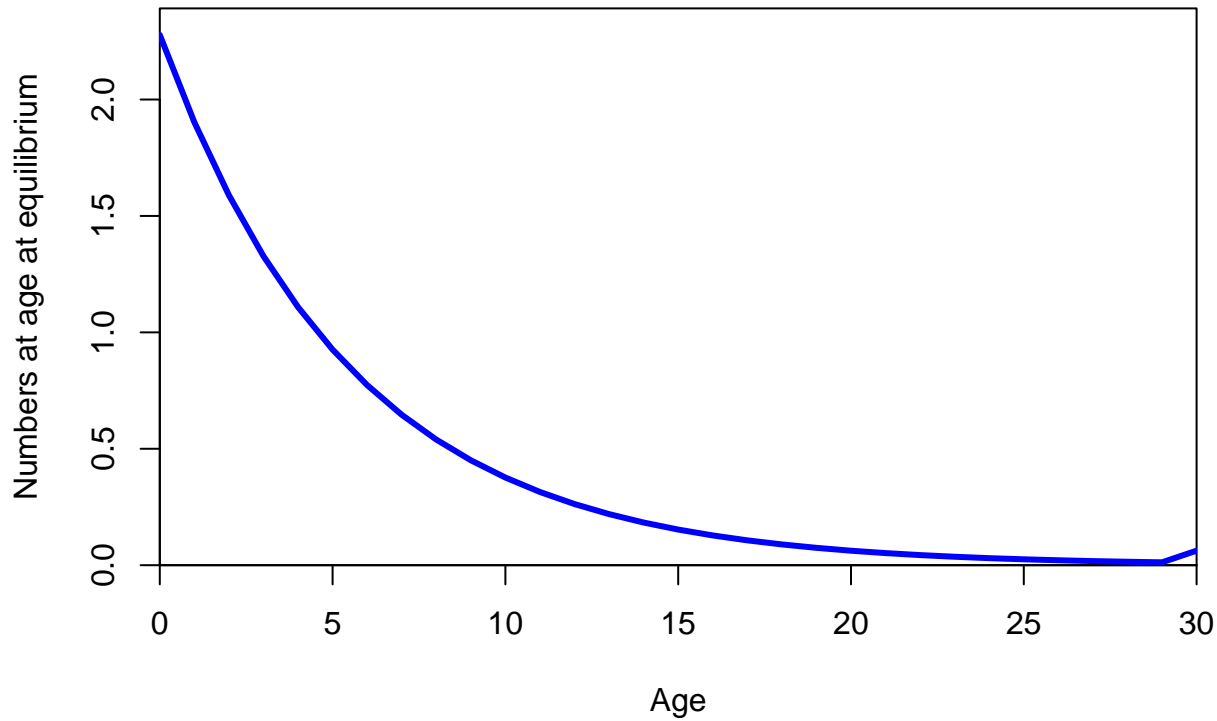






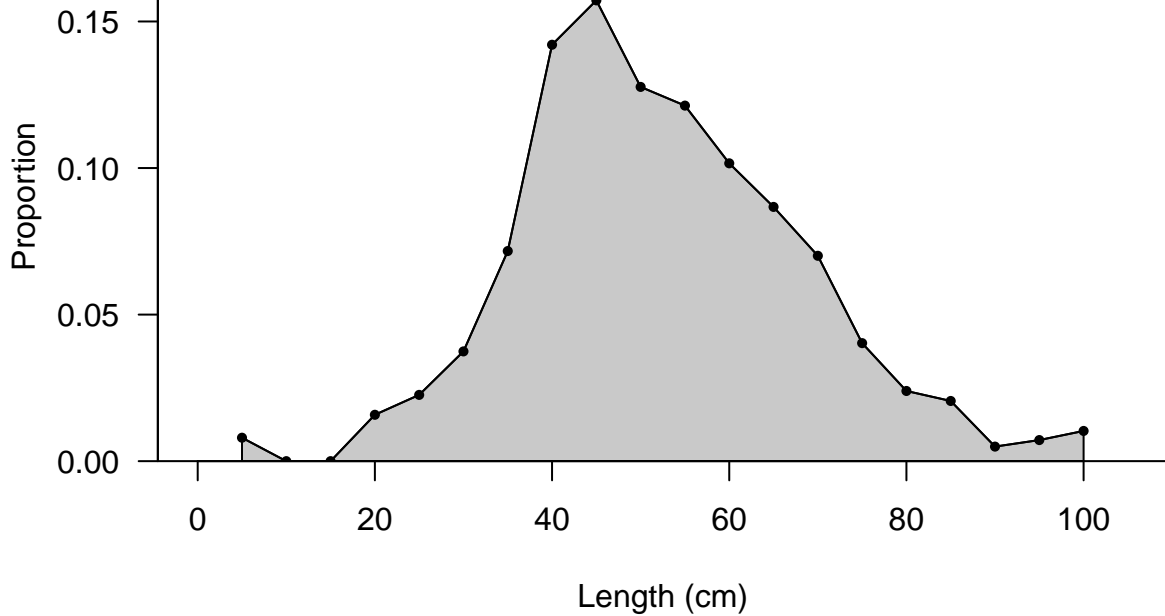


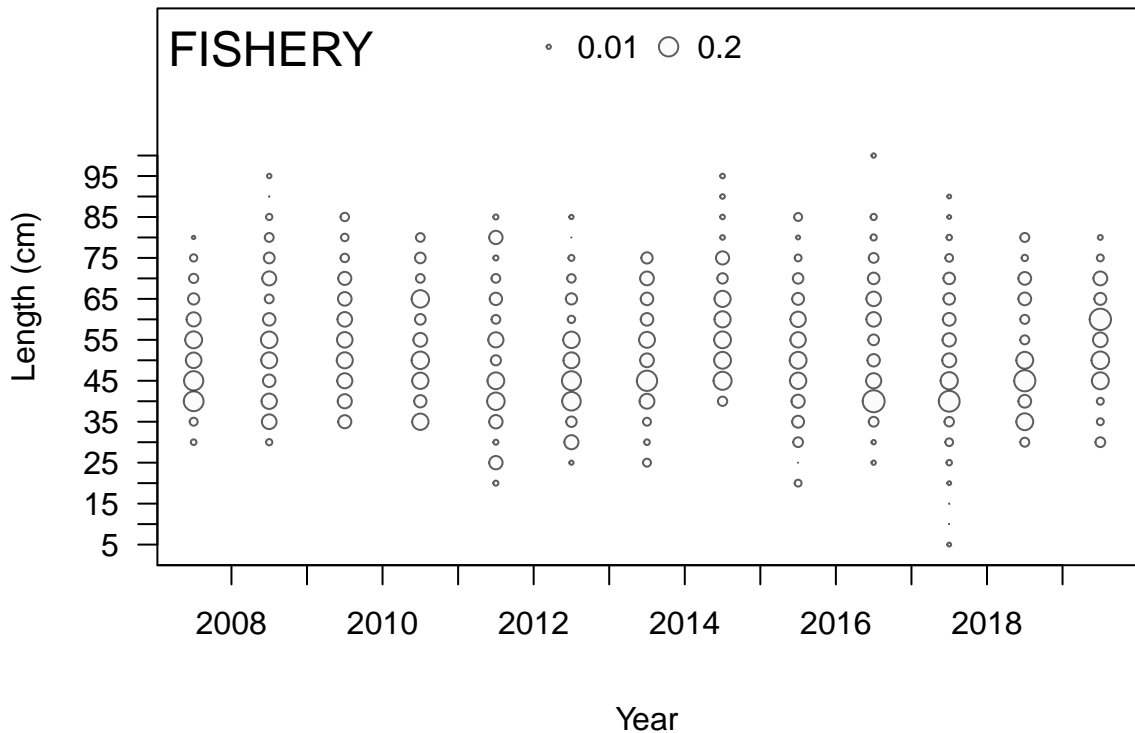




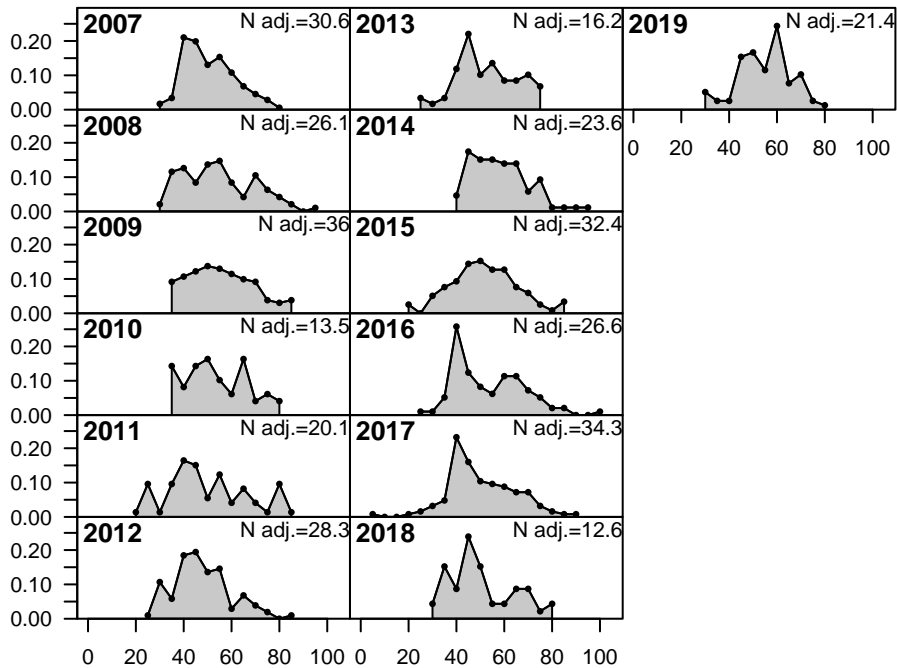
FISHERY

Sum of N adj.=321.7

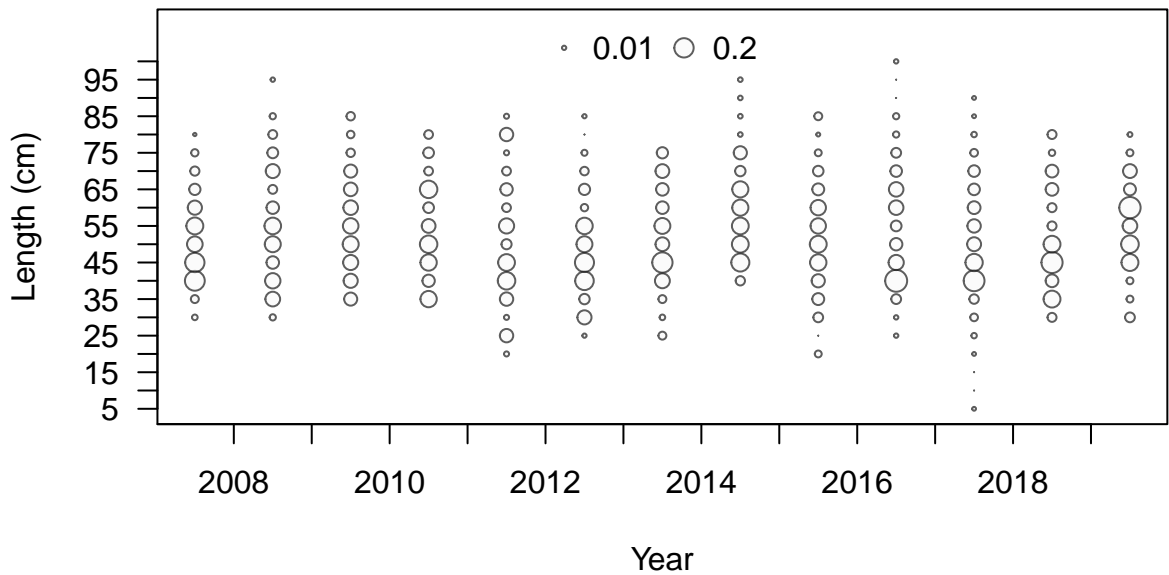




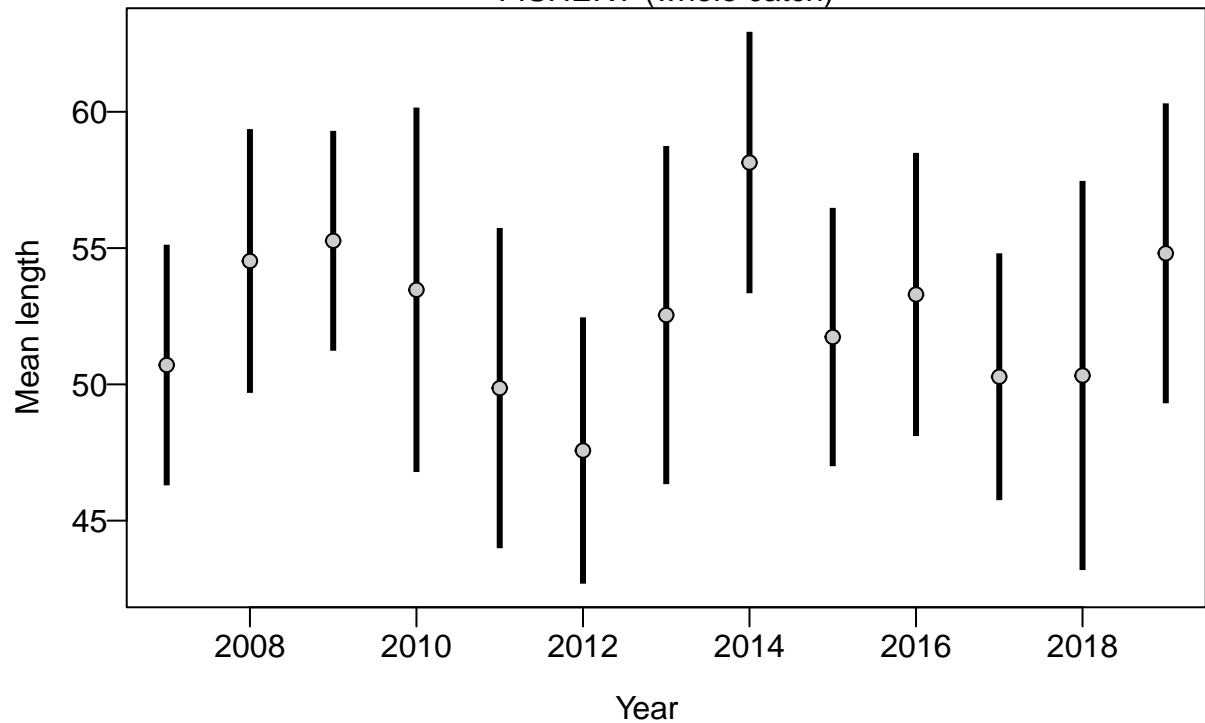
Proportion



Length (cm)

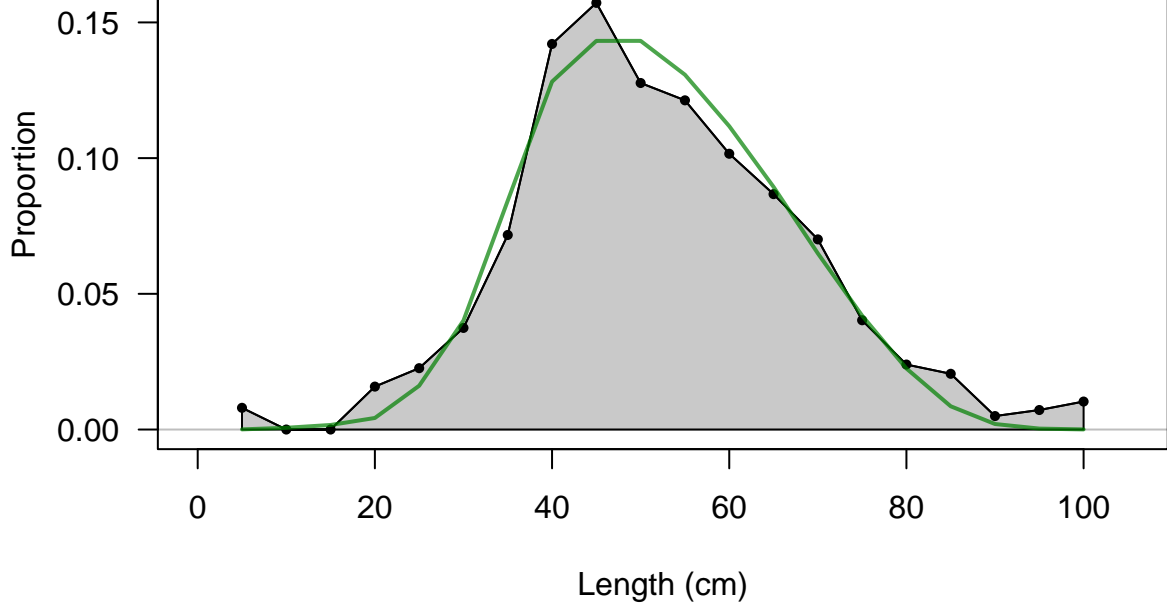


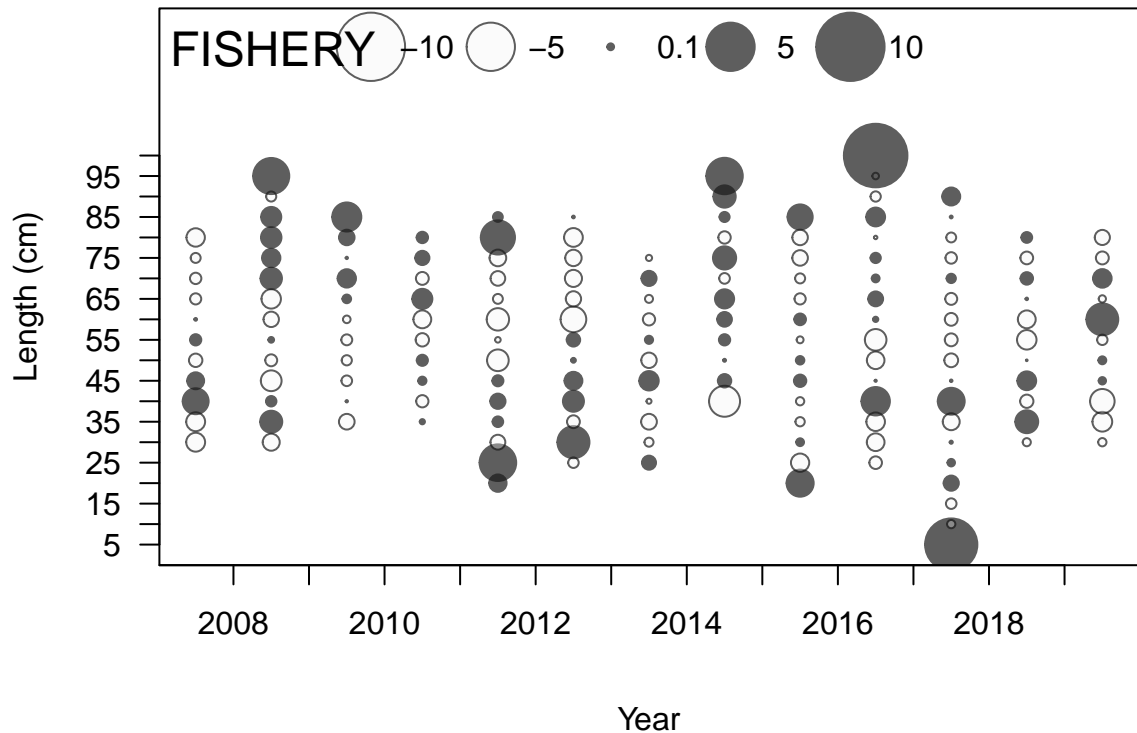
FISHERY (whole catch)



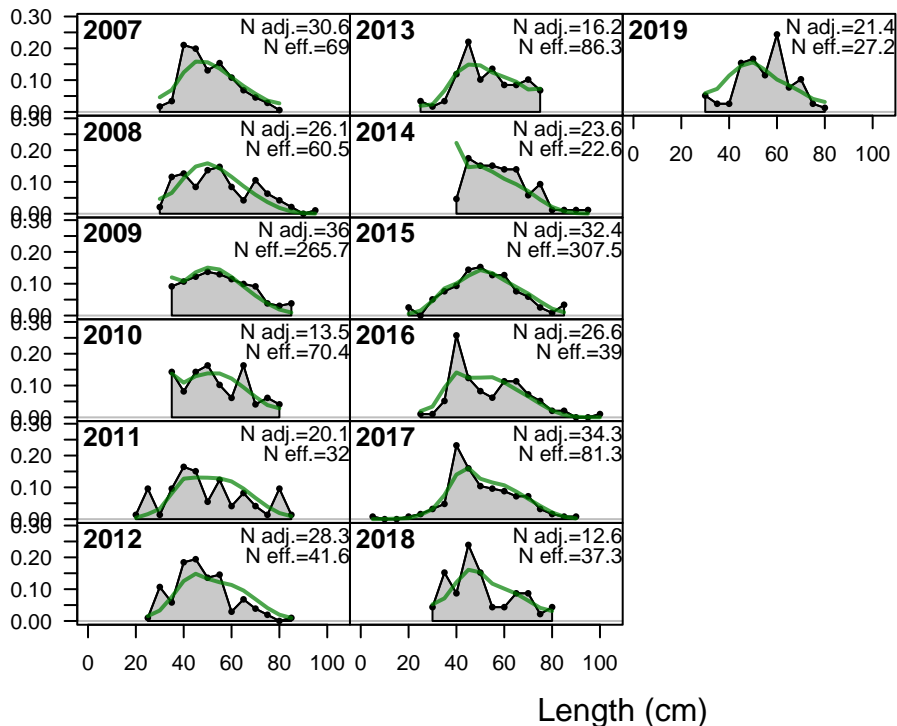
FISHERY

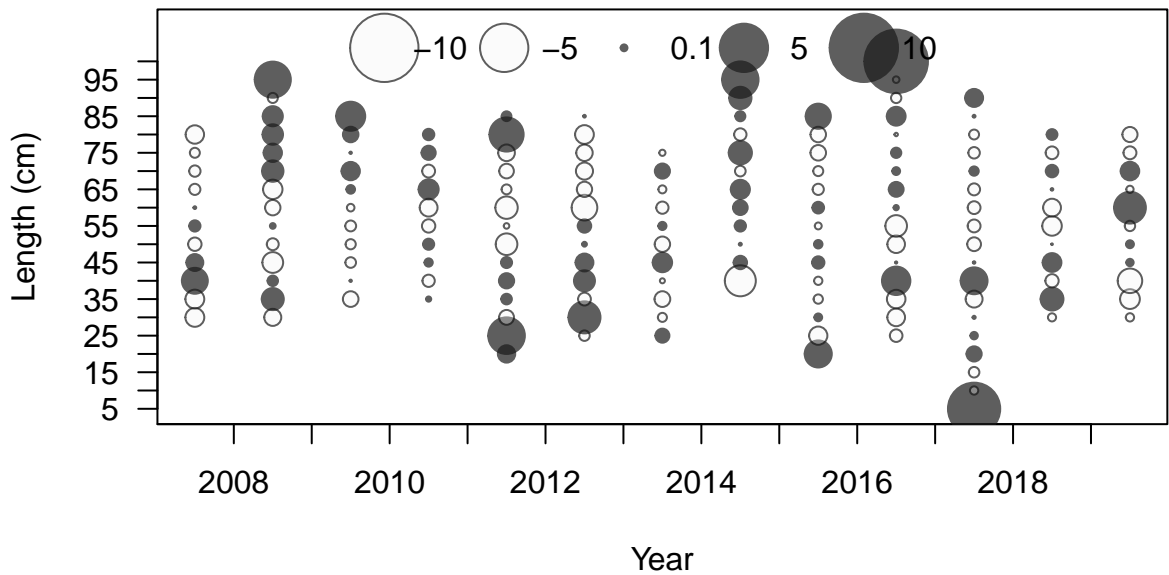
Sum of N adj.=321.7
Sum of N eff.=1140.3

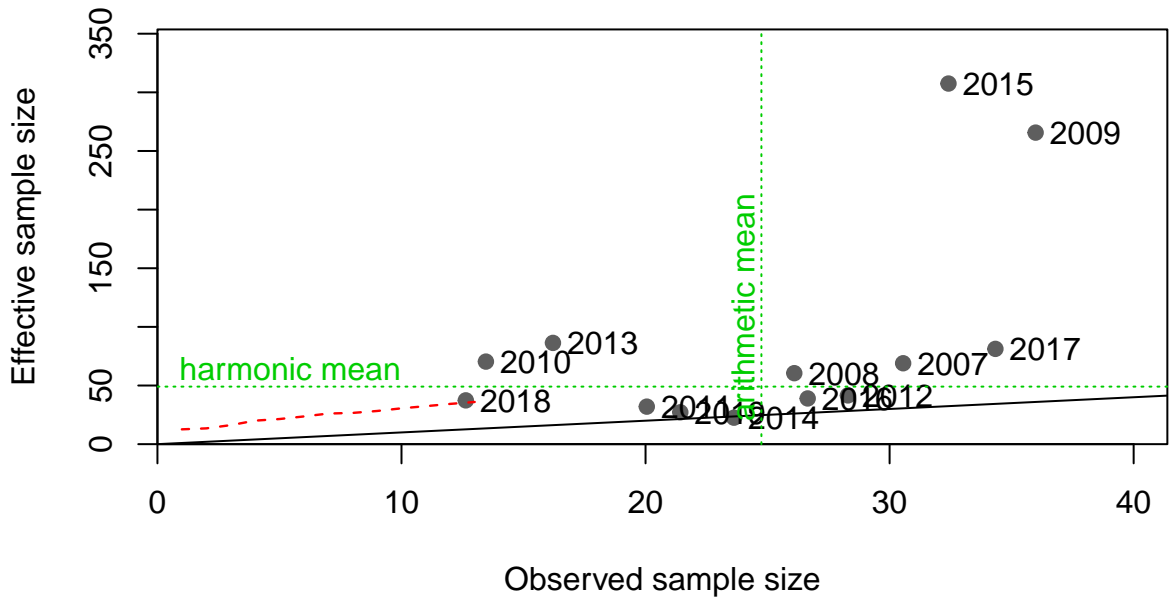




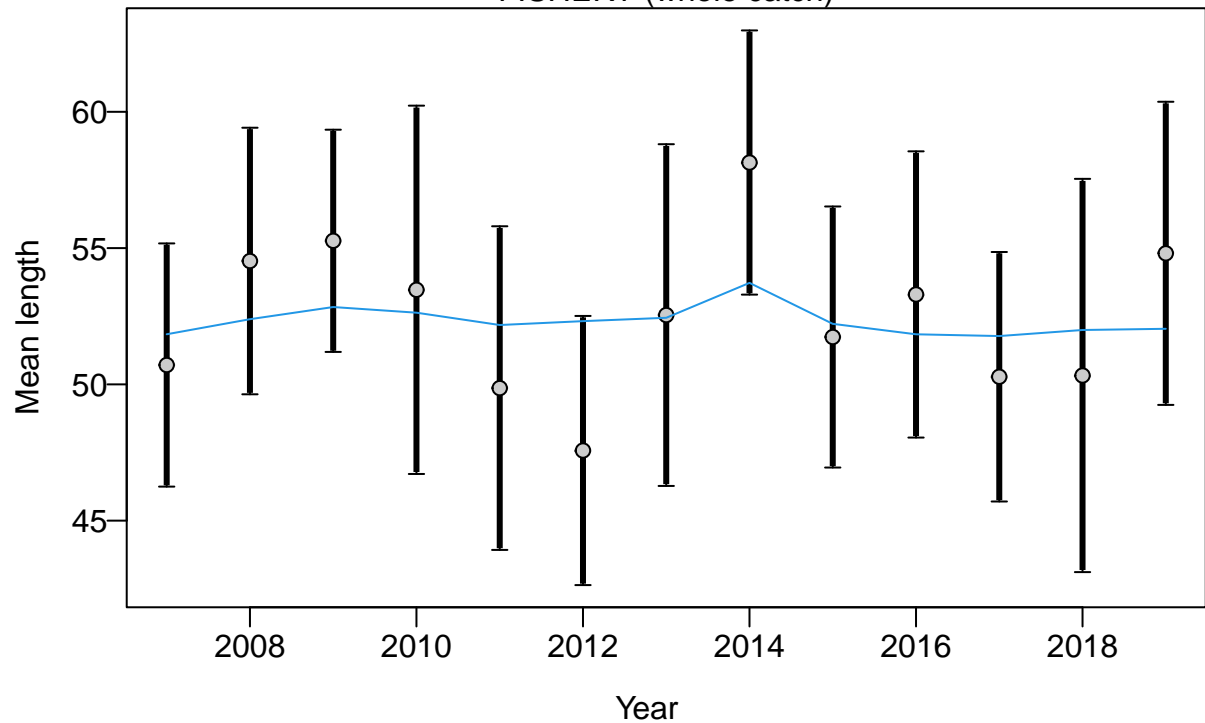
Proportion

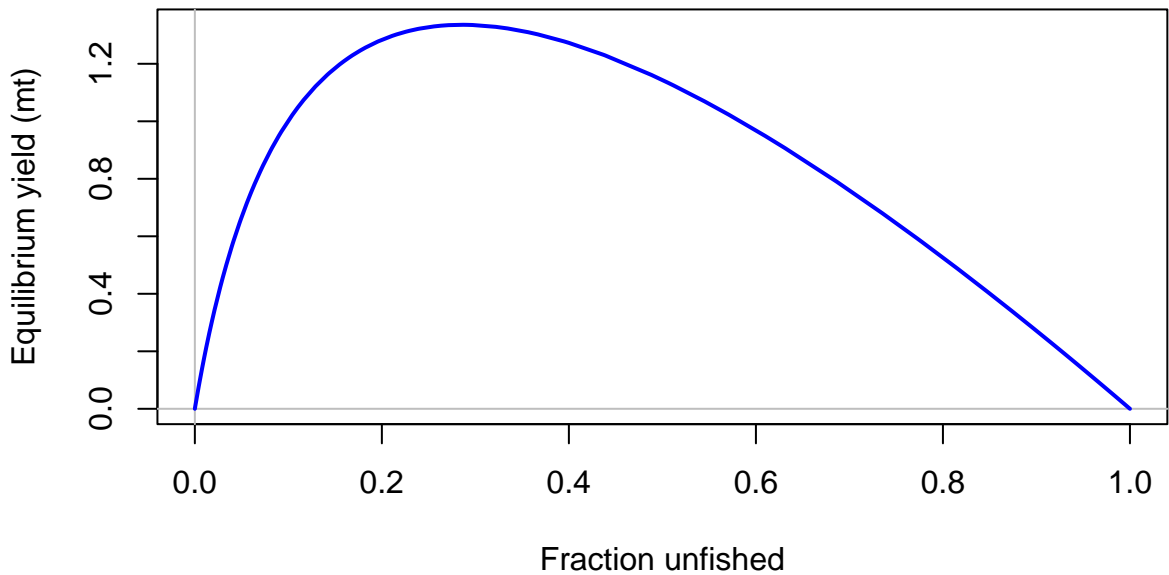


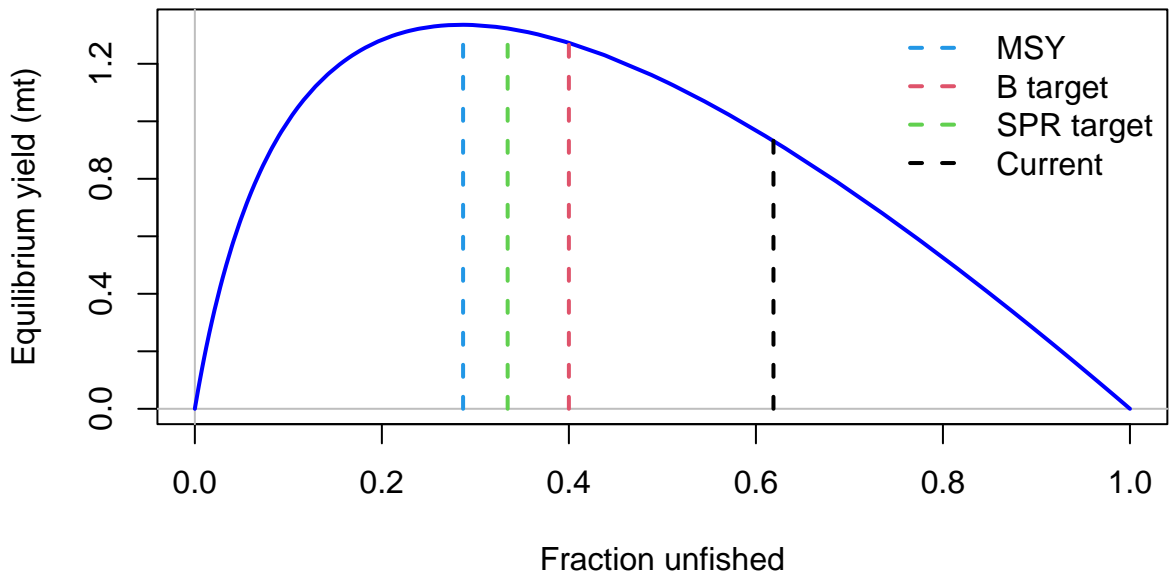


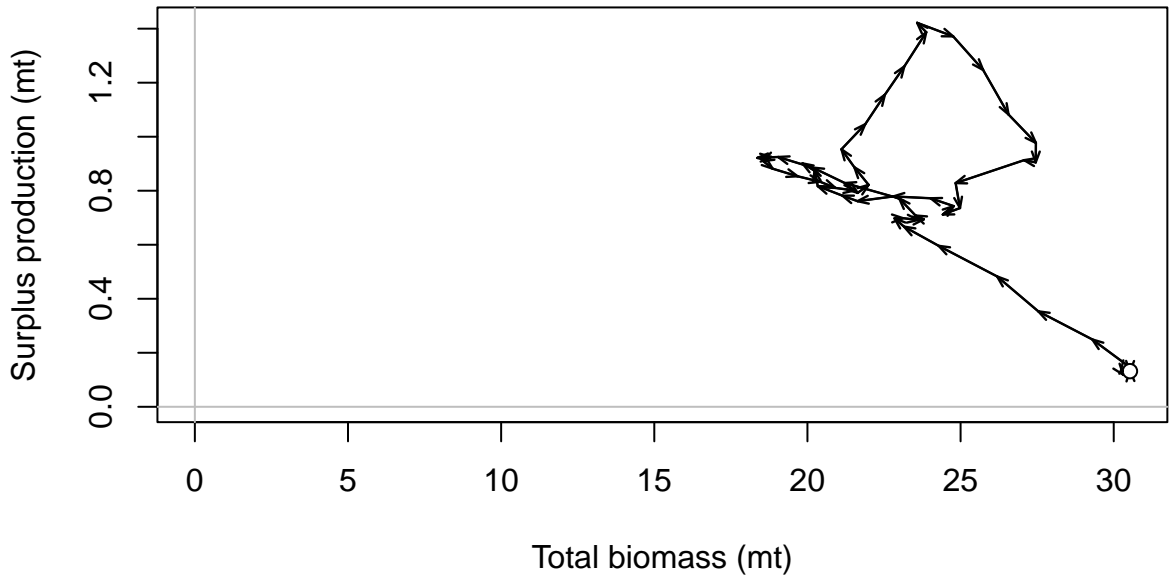


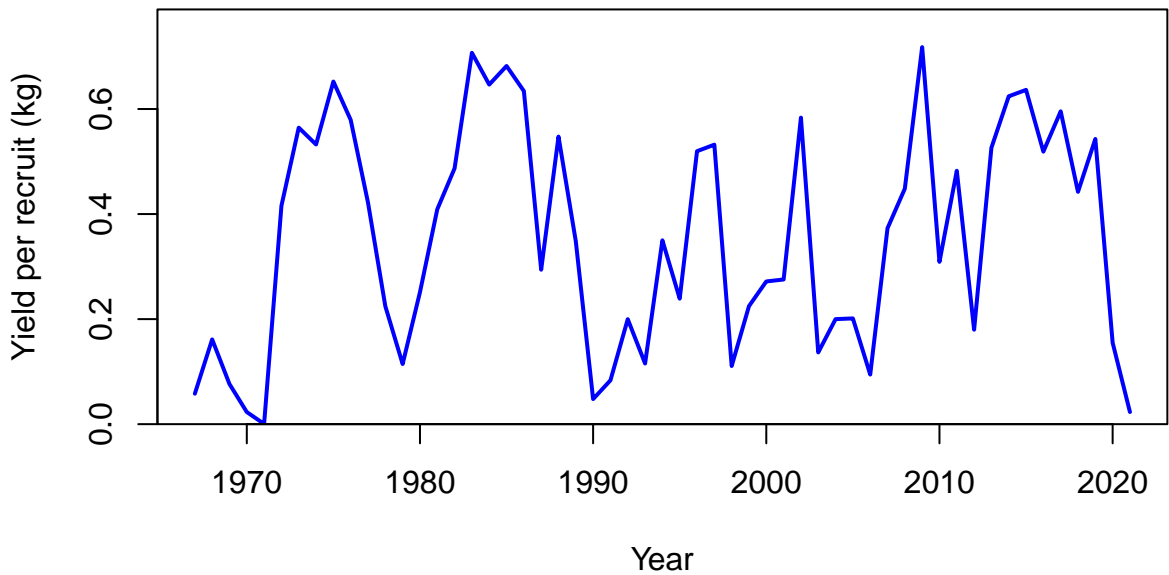
FISHERY (whole catch)

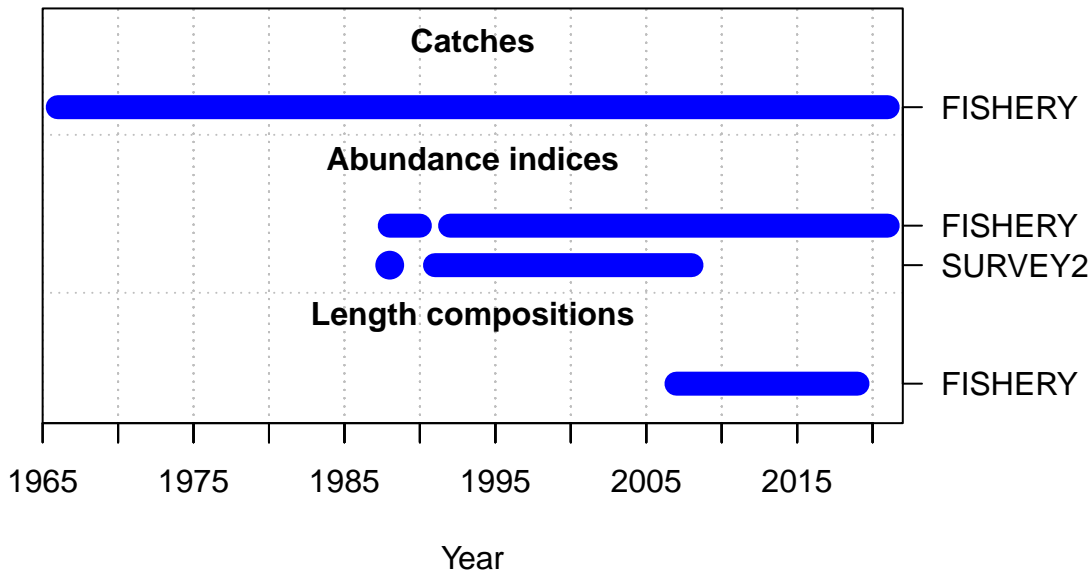


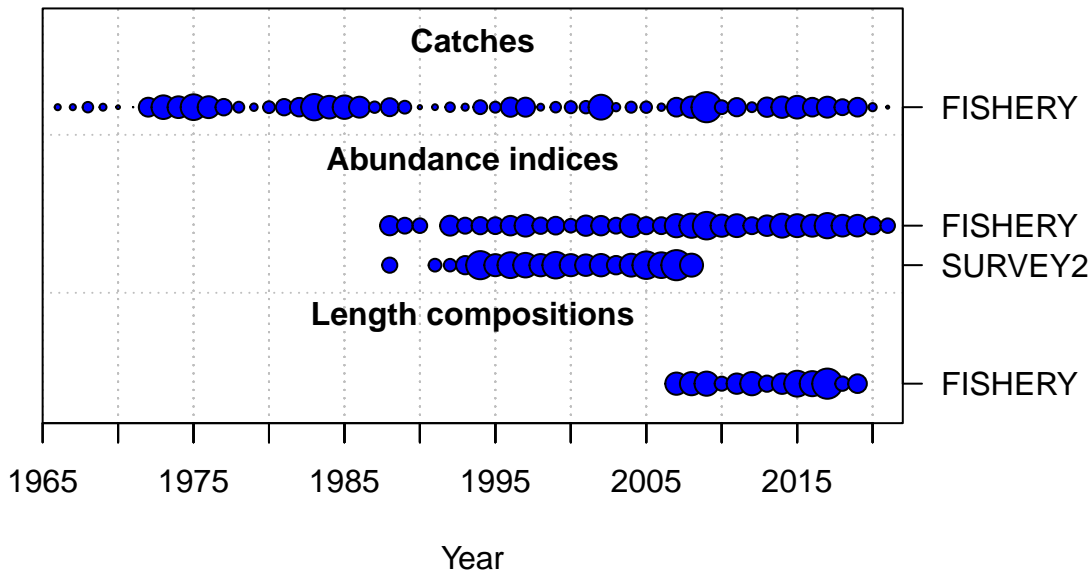










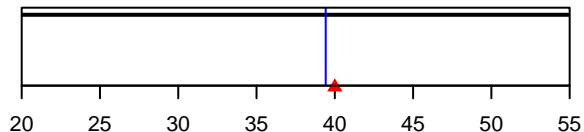


Density

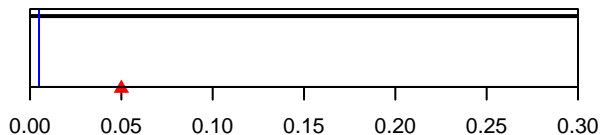
SR_LN(R0)



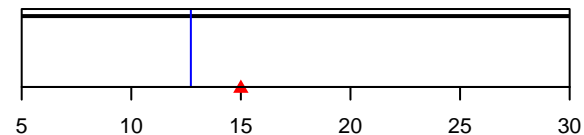
Size_inflection_FISHERY(1)



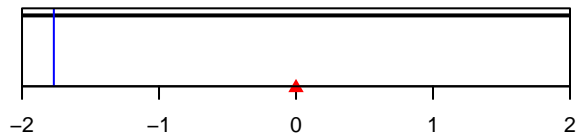
InitF_seas_1_flt_1FISHERY



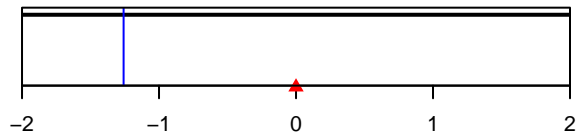
Size_95%width_FISHERY(1)



LnQ_base_FISHERY(1)



LnQ_base_SURVEY2(2)



Parameter value