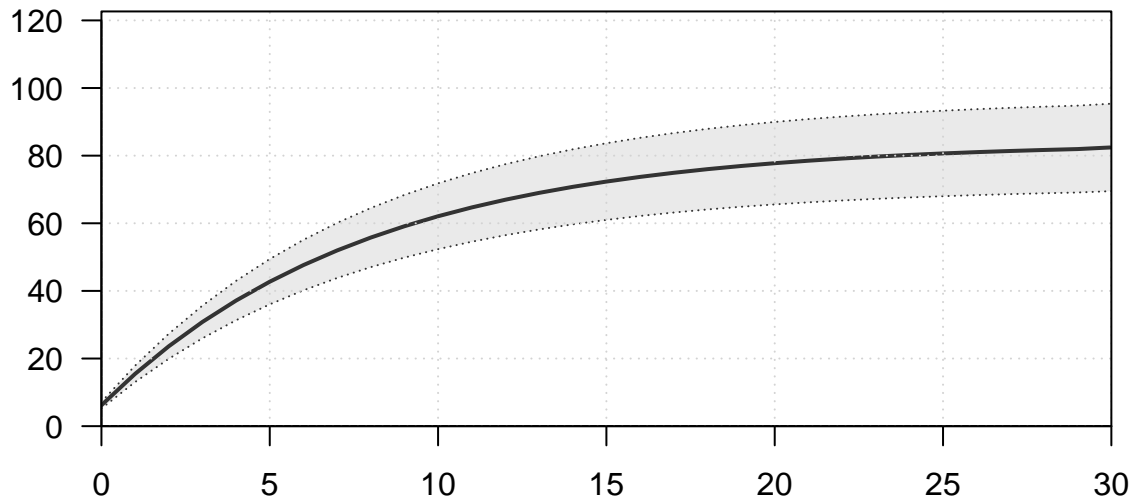
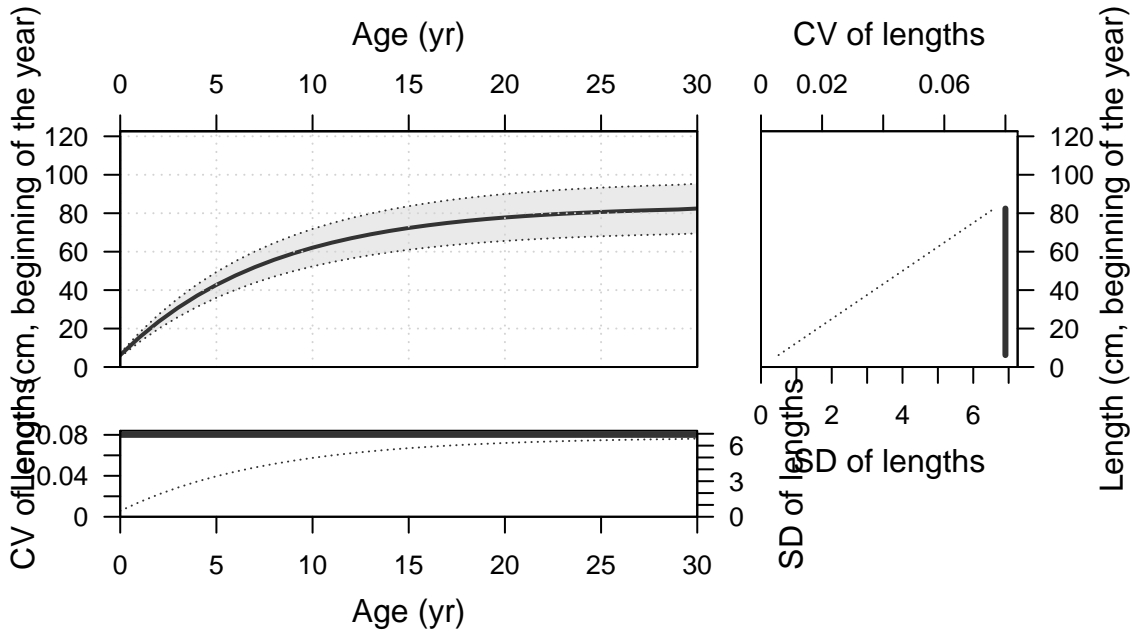


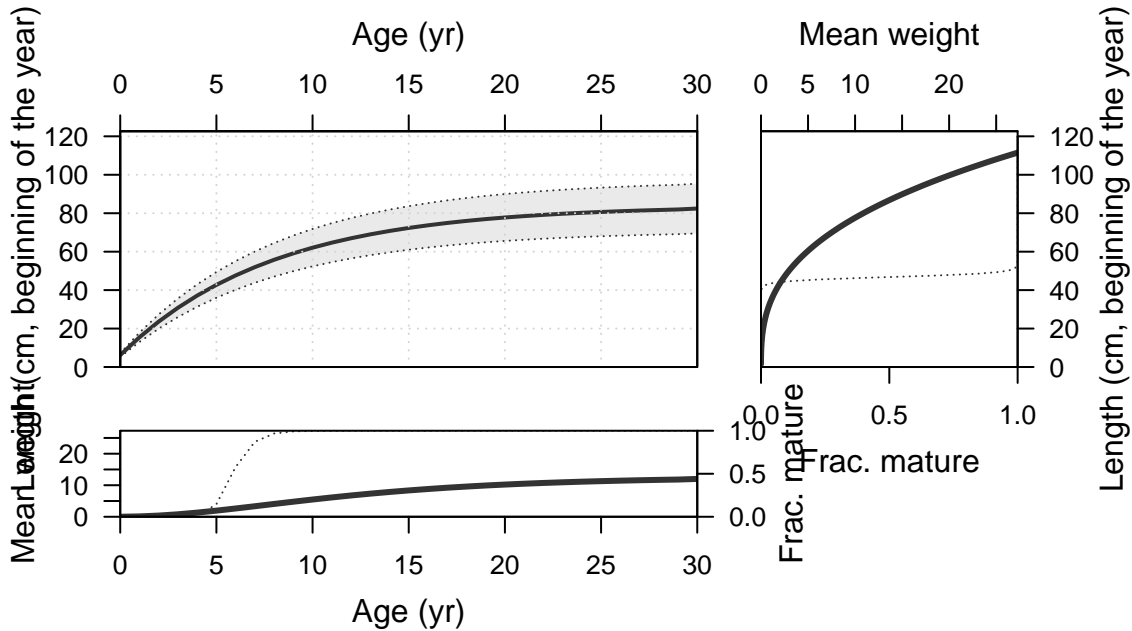
Plots created using the 'r4ss' package in R
Stock Synthesis version: 3.30.19.0
StartTime: Thu Jul 21 12:32:03 2022
Data_File: data.ss
Control_File: control.ss

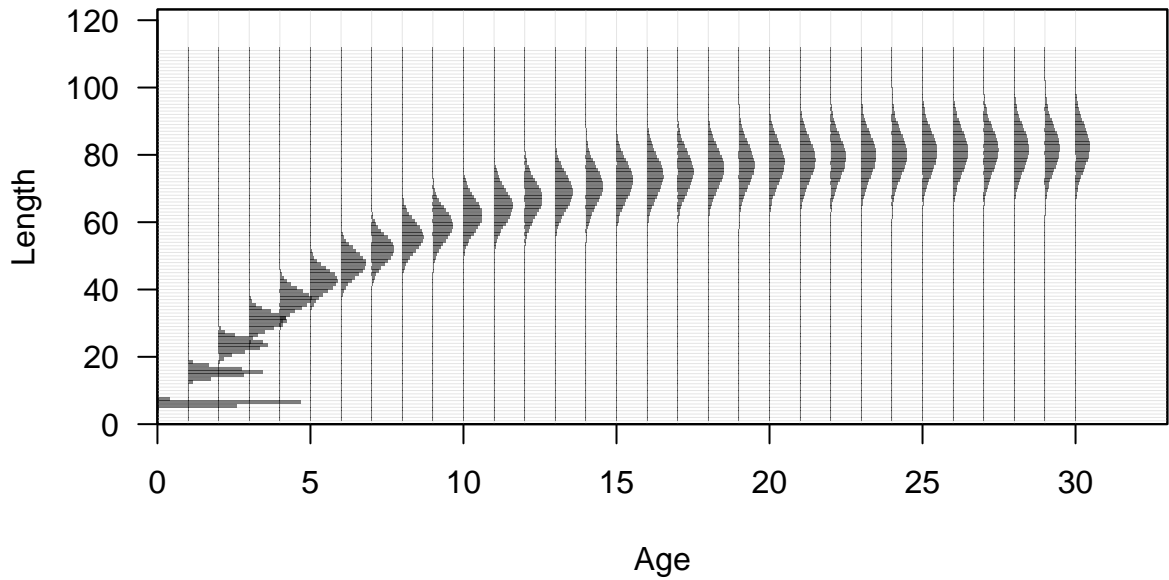
Length (cm, beginning of the year)

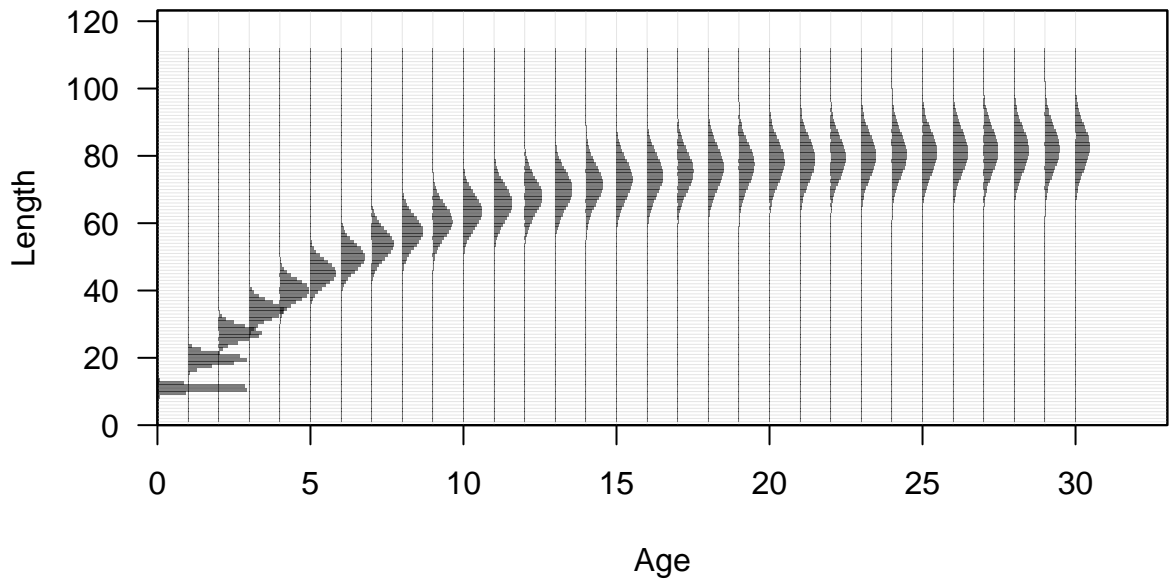


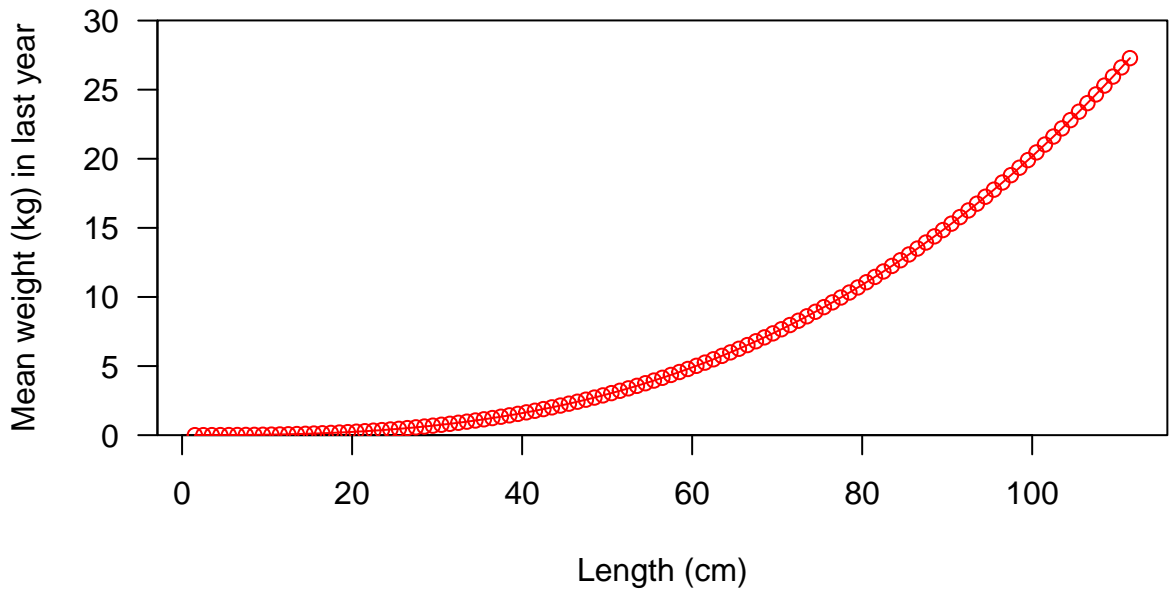
Age (yr)

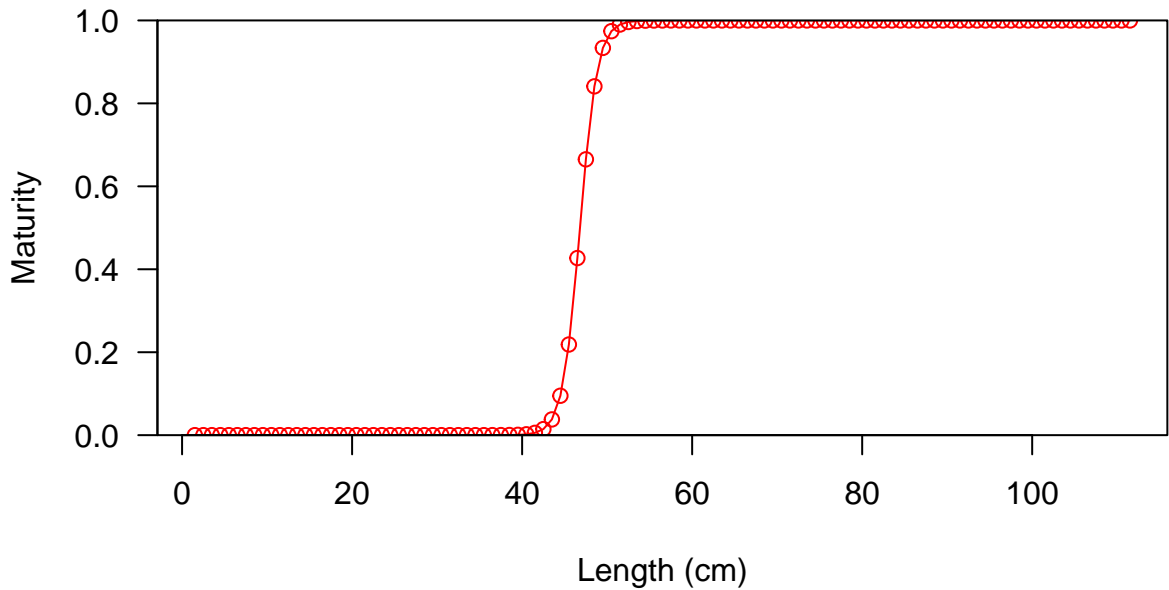


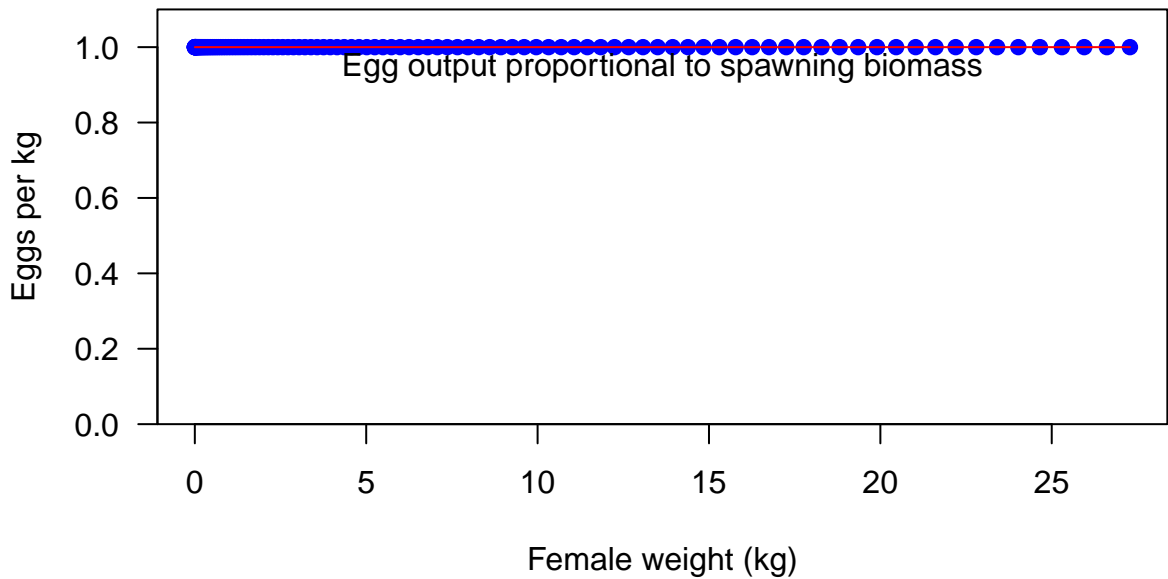


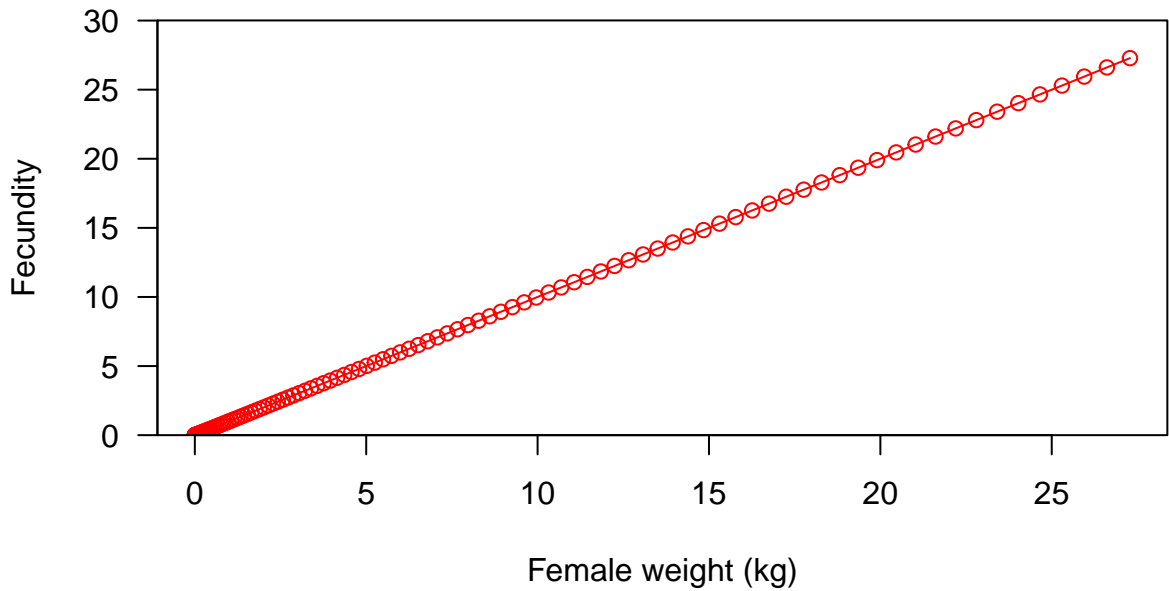












Fecundity

30
25
20
15
10
5
0

0

20

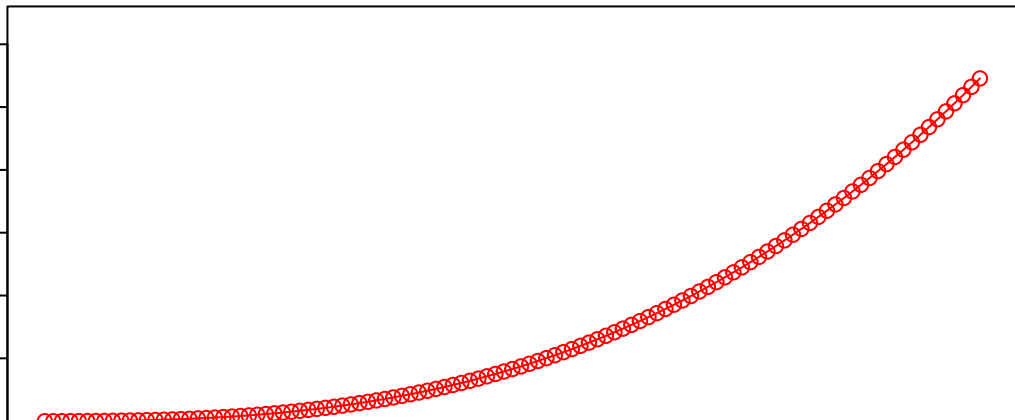
40

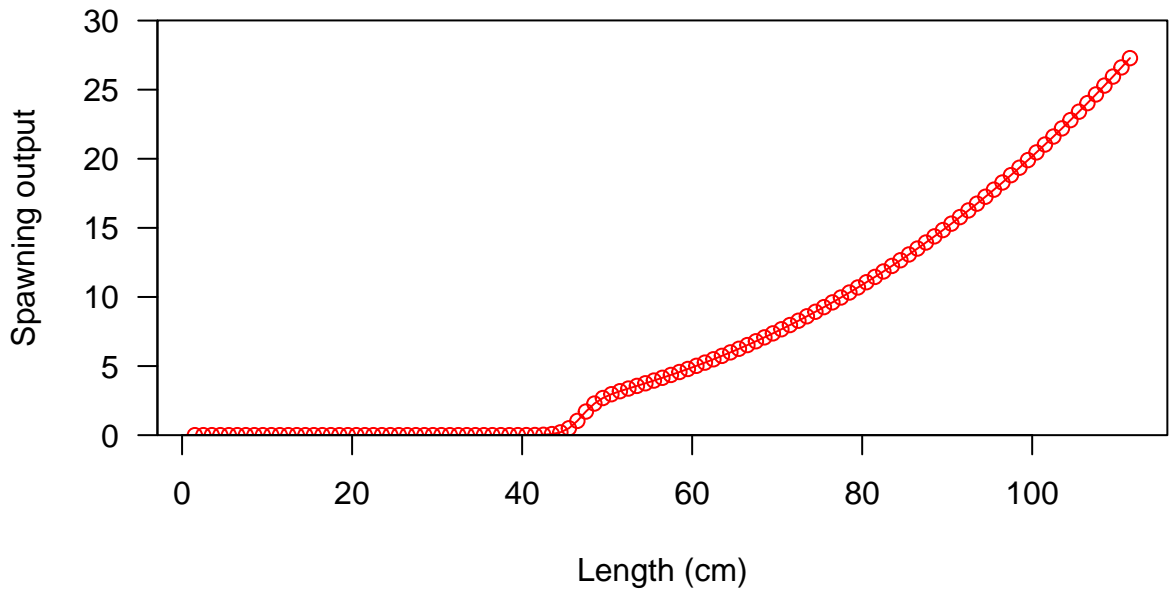
60

80

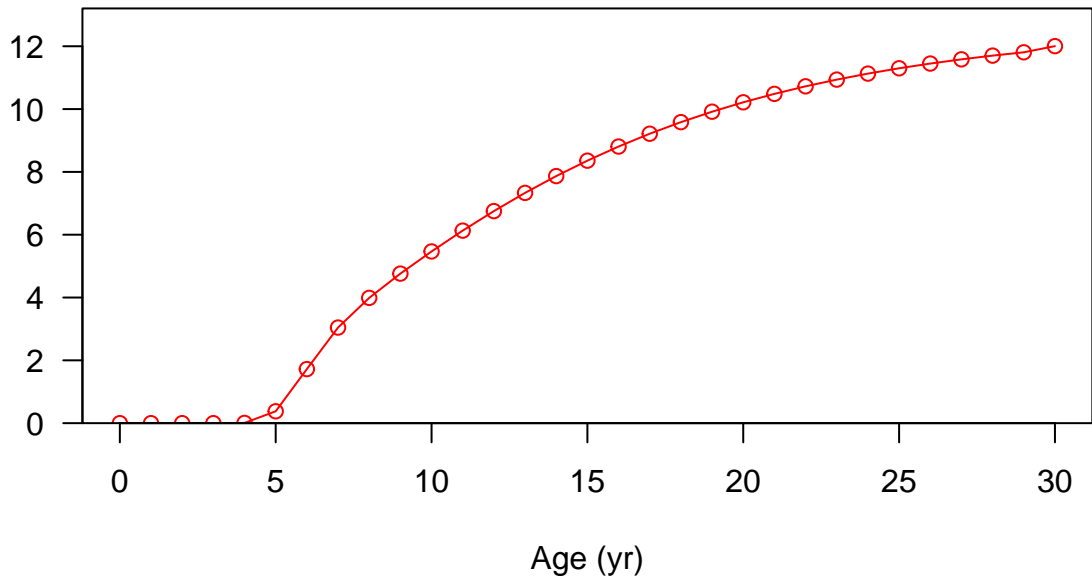
100

Female length (cm)

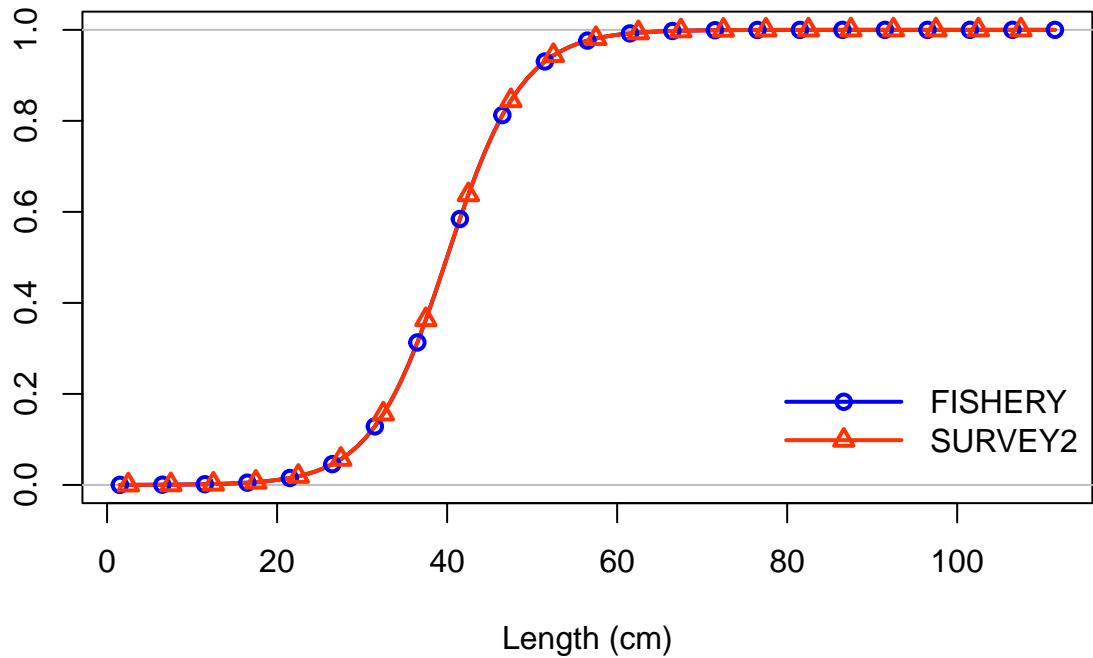




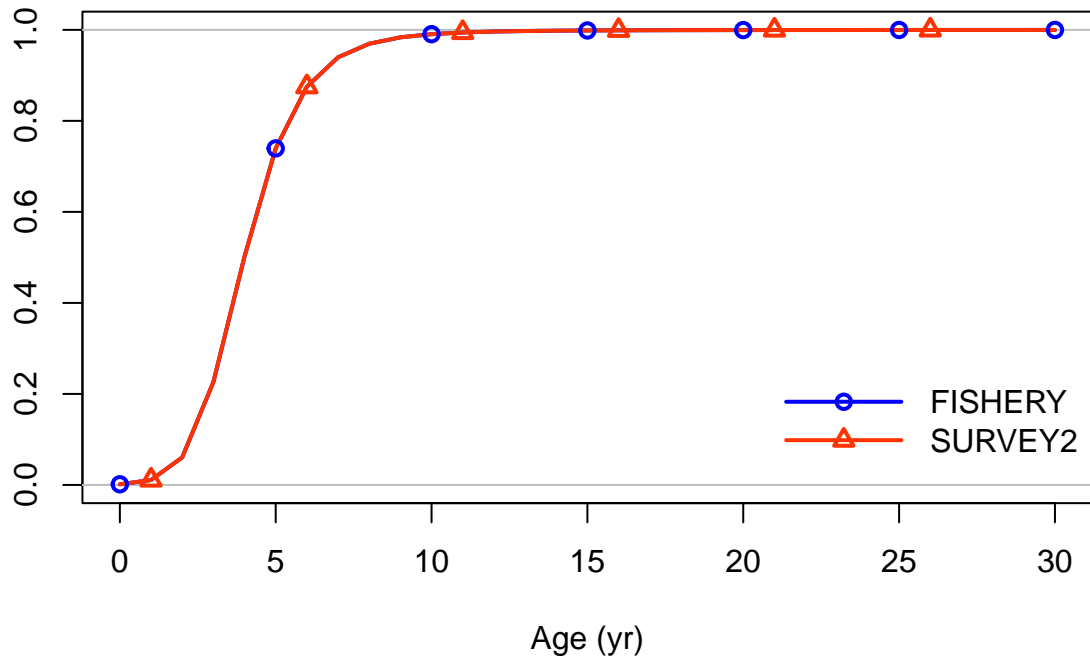
Spawning output



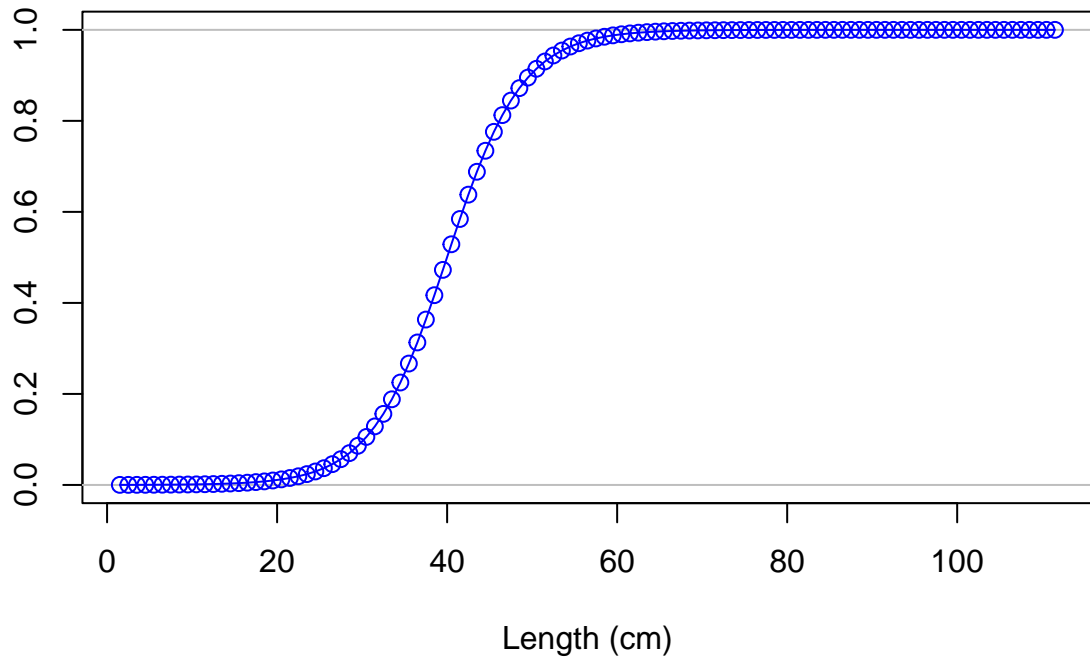
Selectivity



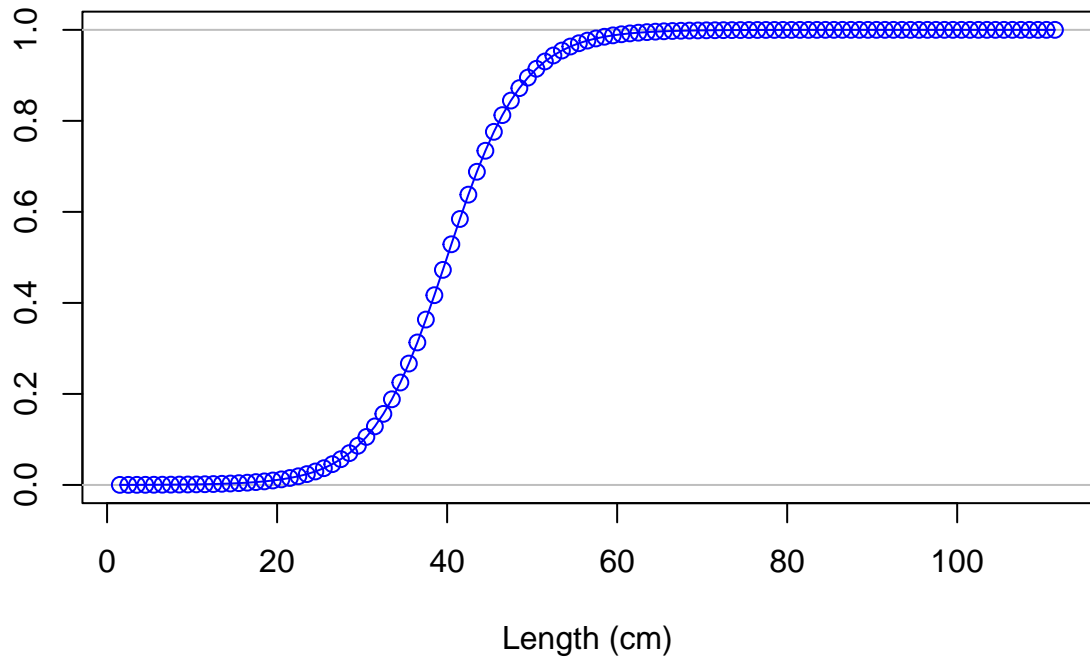
Selectivity

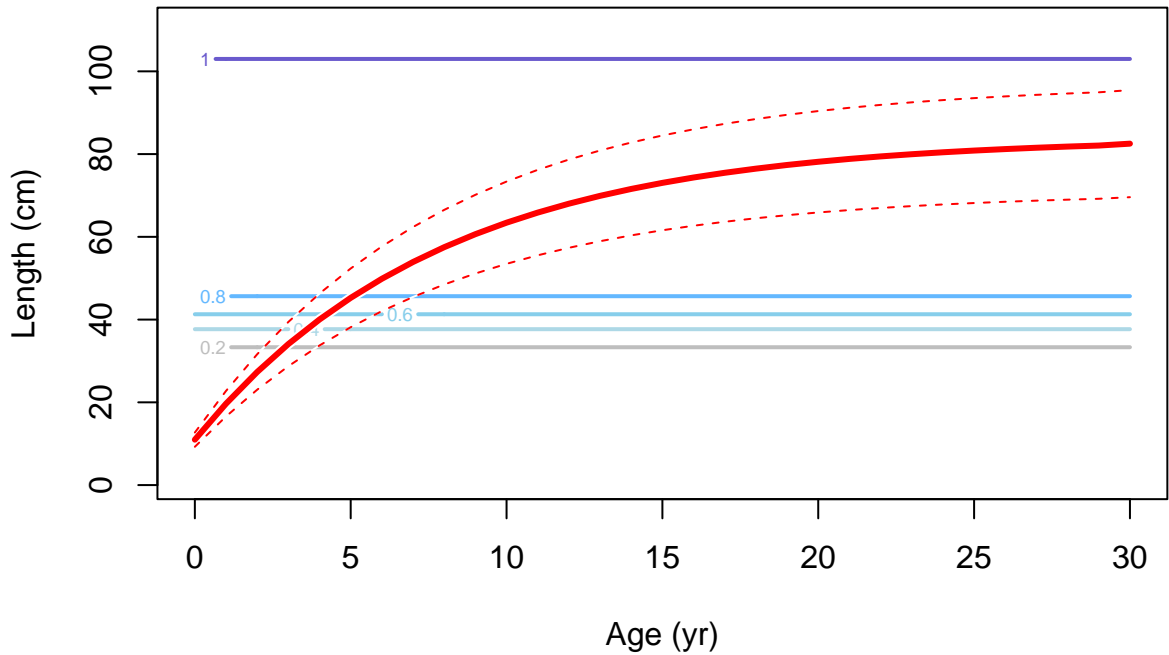


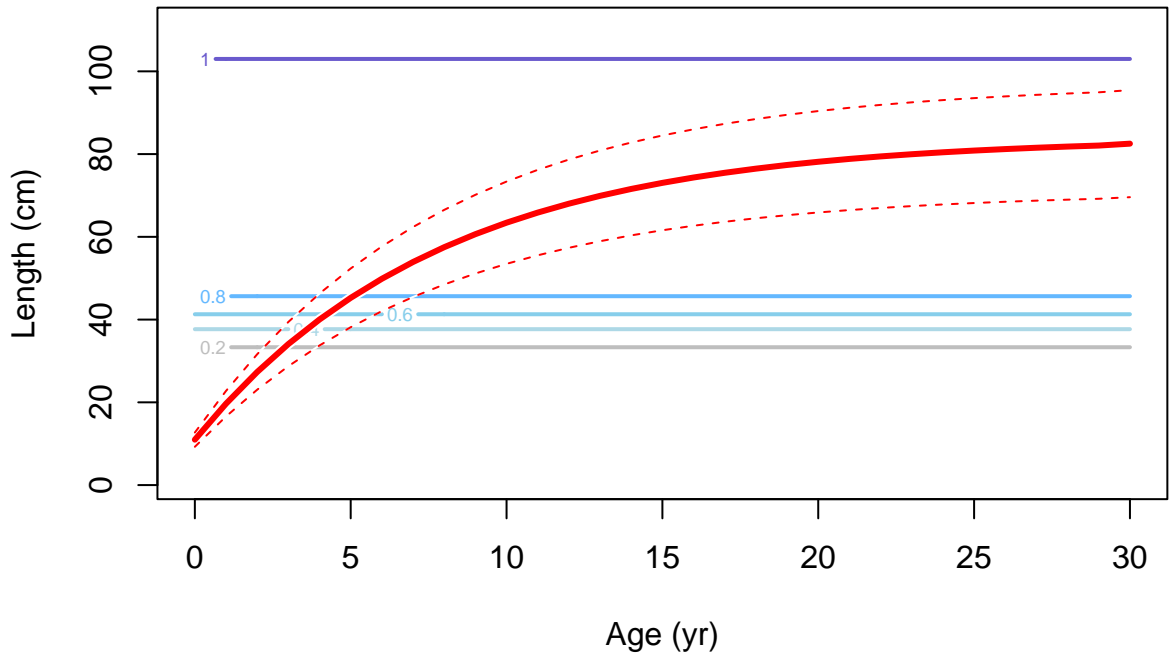
Selectivity



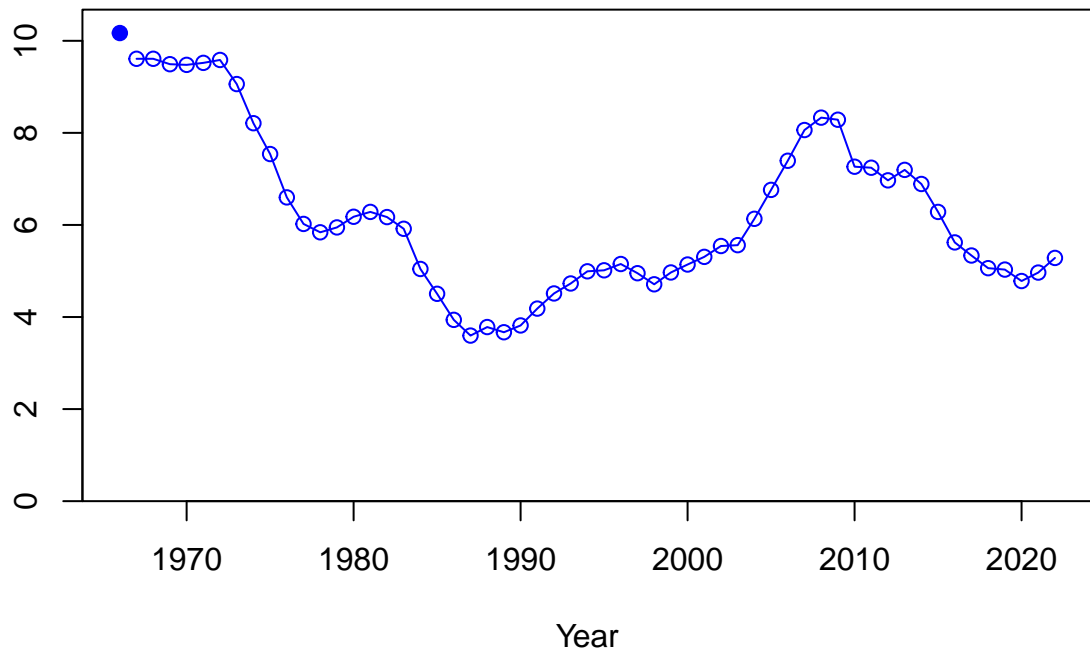
Selectivity



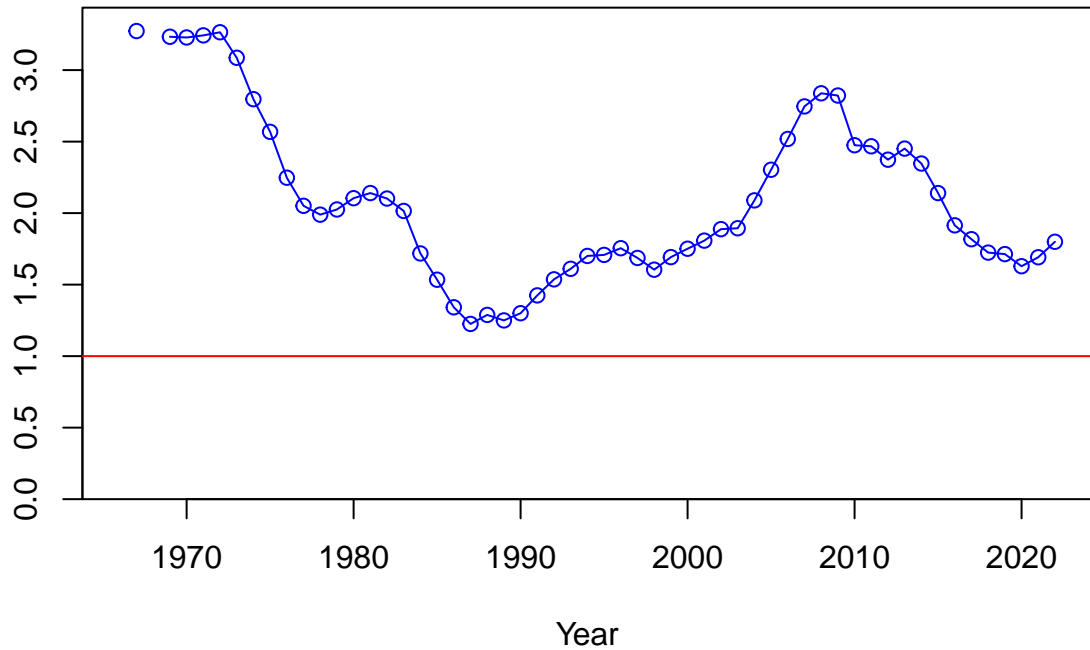


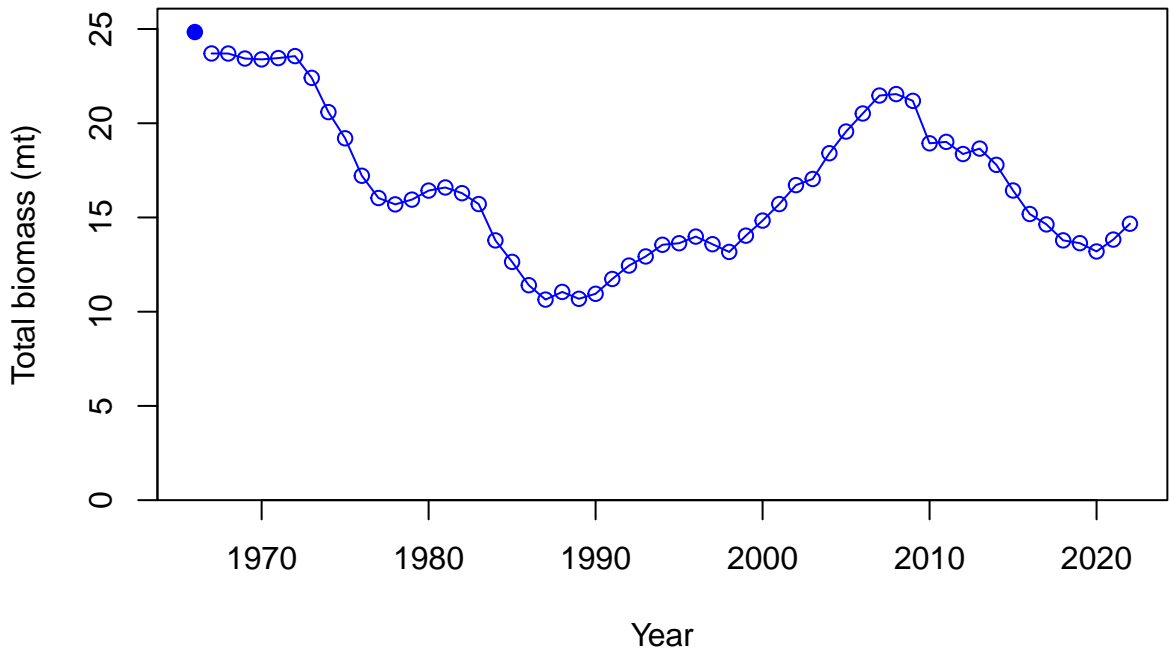


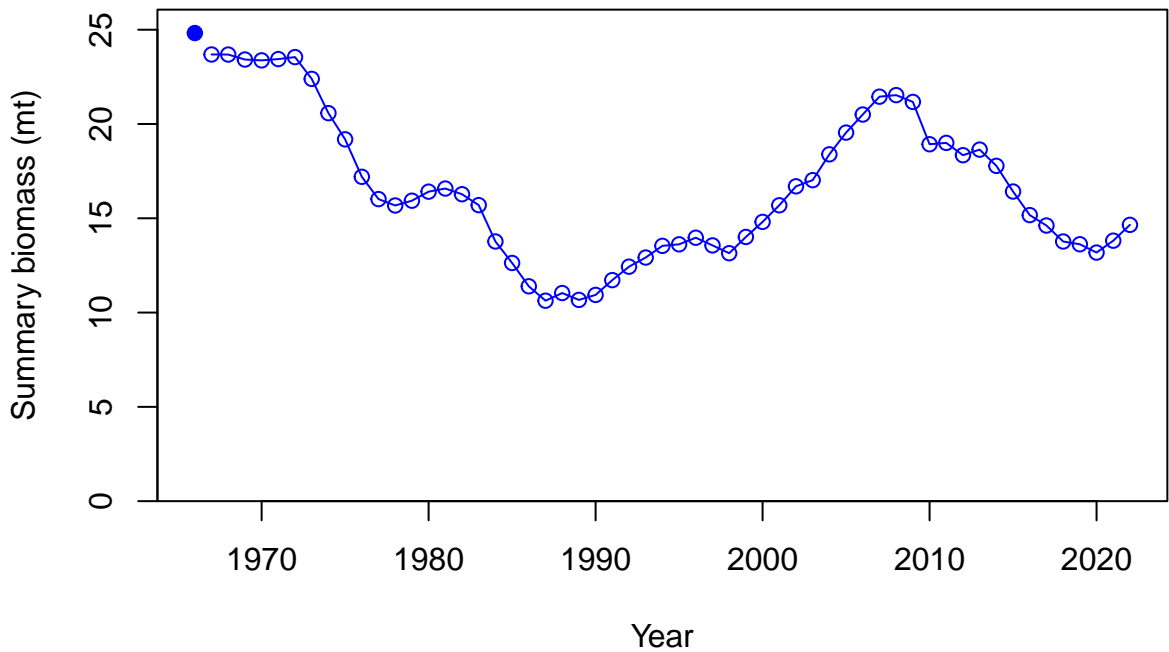
Spawning biomass (mt)



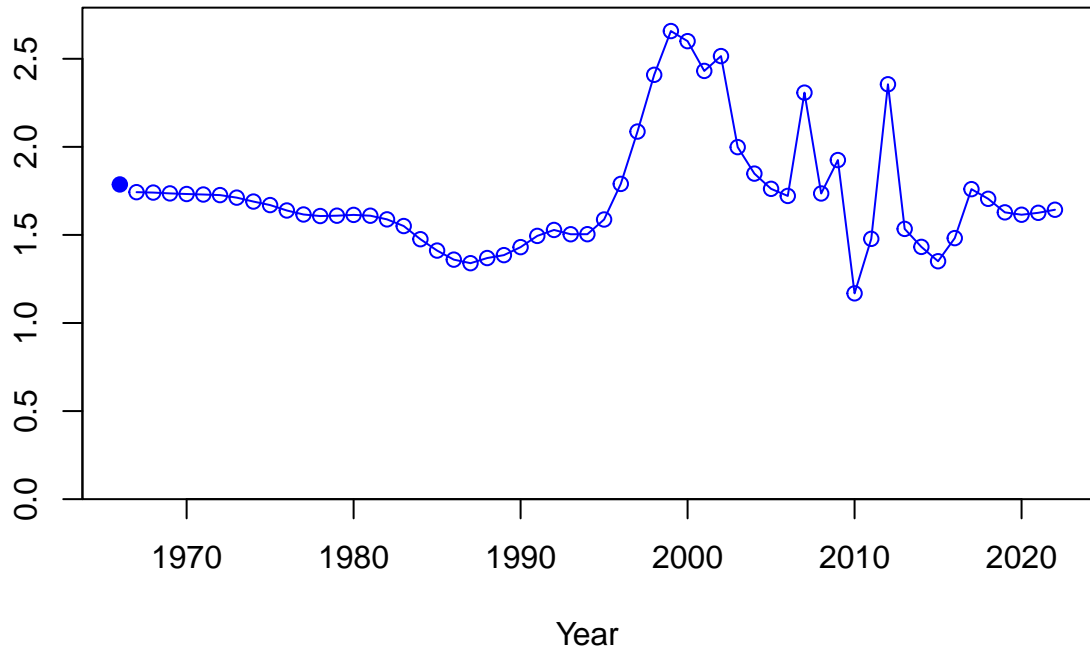
Relative spawning biomass: B/B_{MSY}



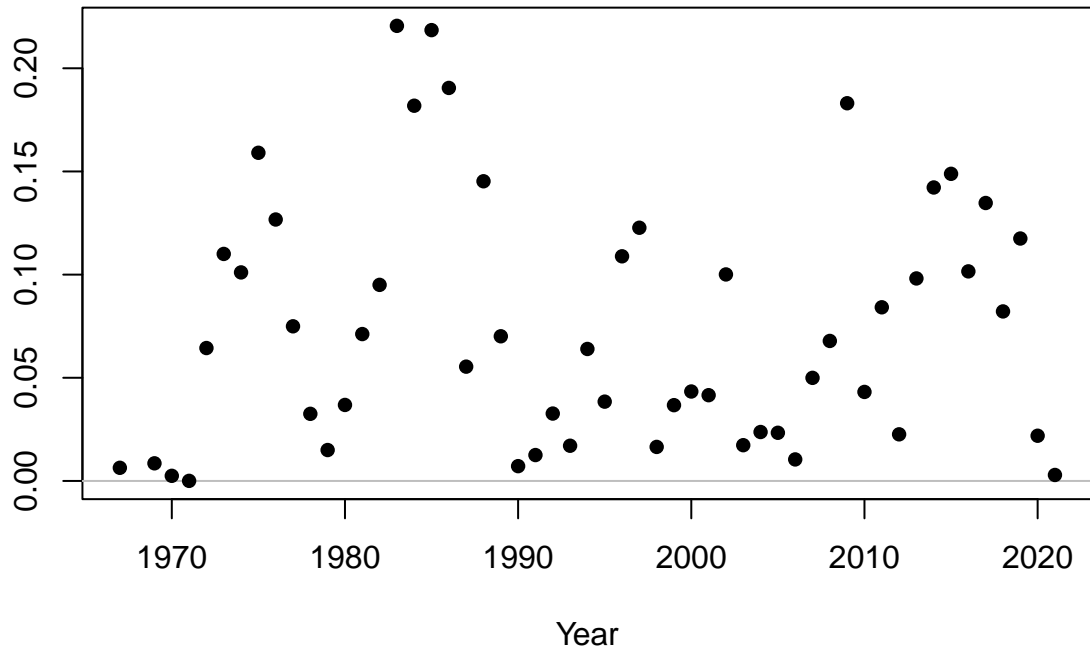


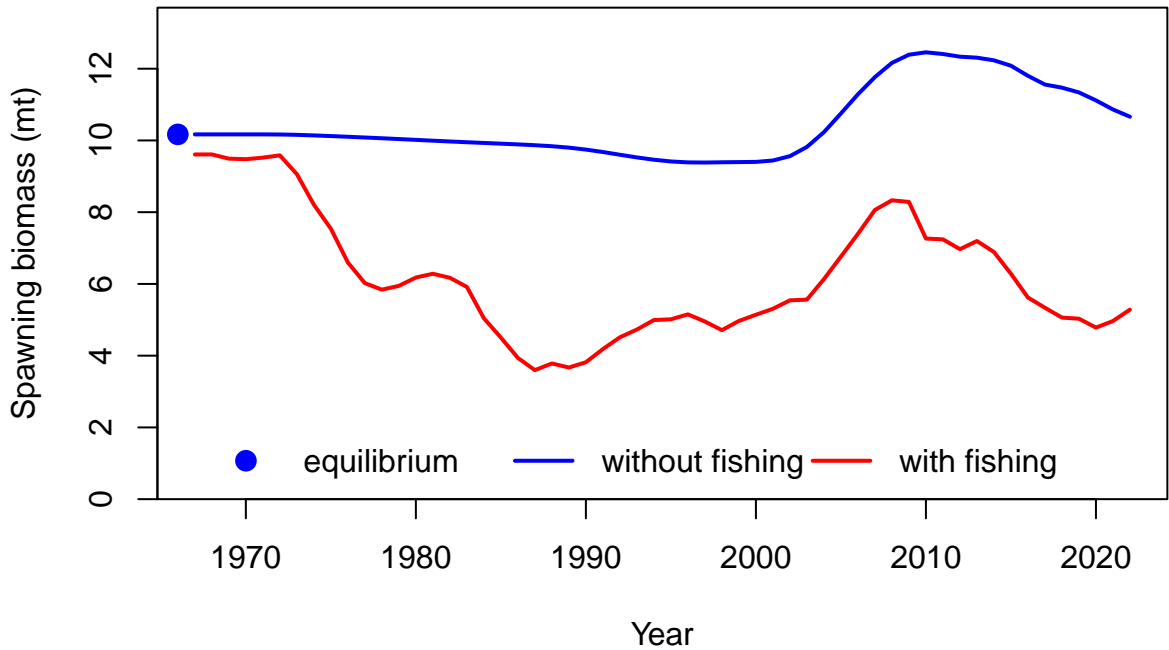


Age-0 recruits (1,000s)



Summary Fishing Mortality





Log recruitment deviation

0.4
0.2
0.0
-0.2

1970

1980

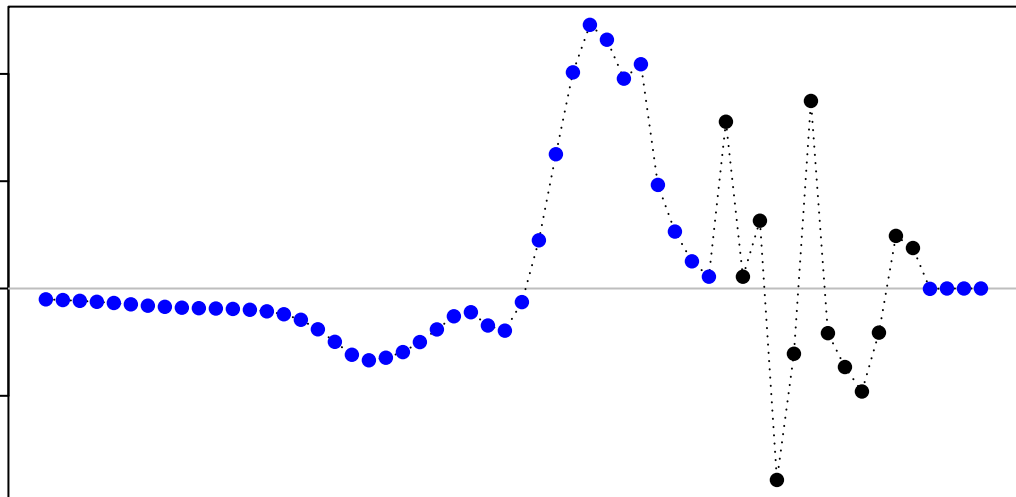
1990

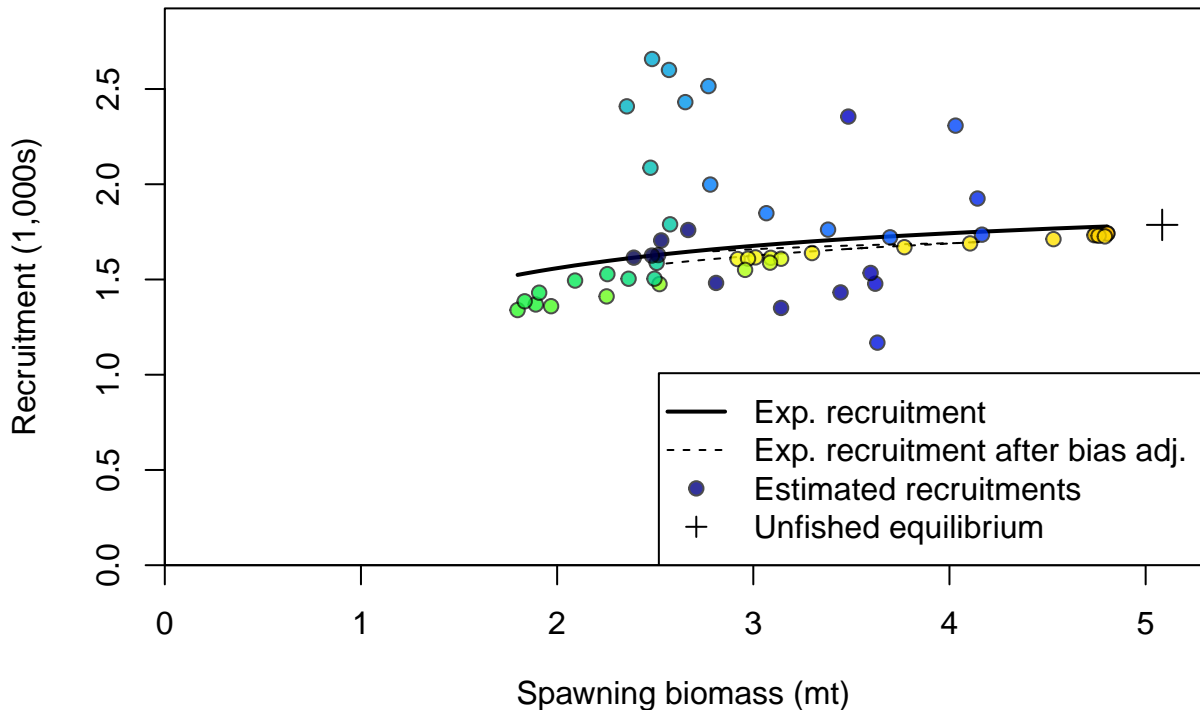
2000

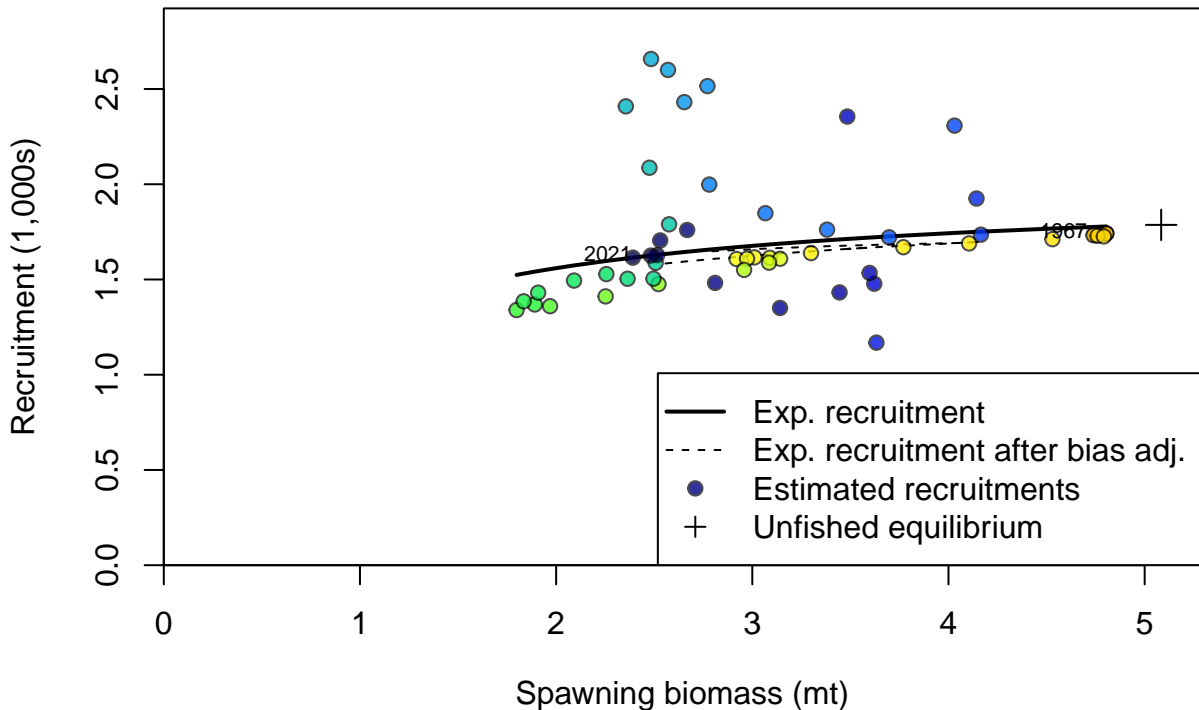
2010

2020

Year





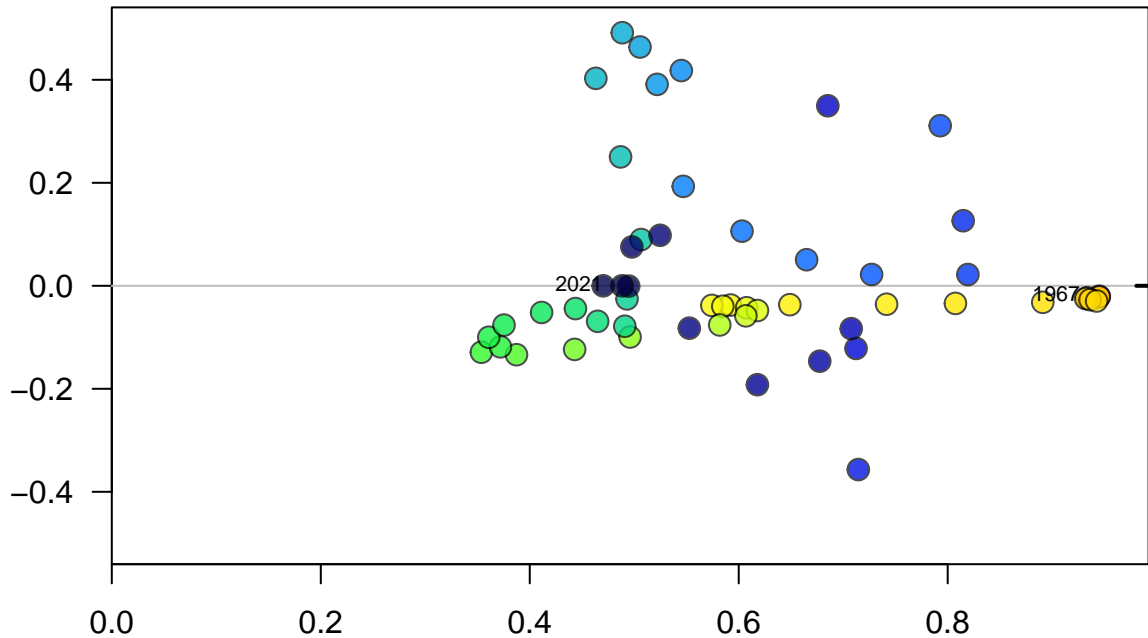


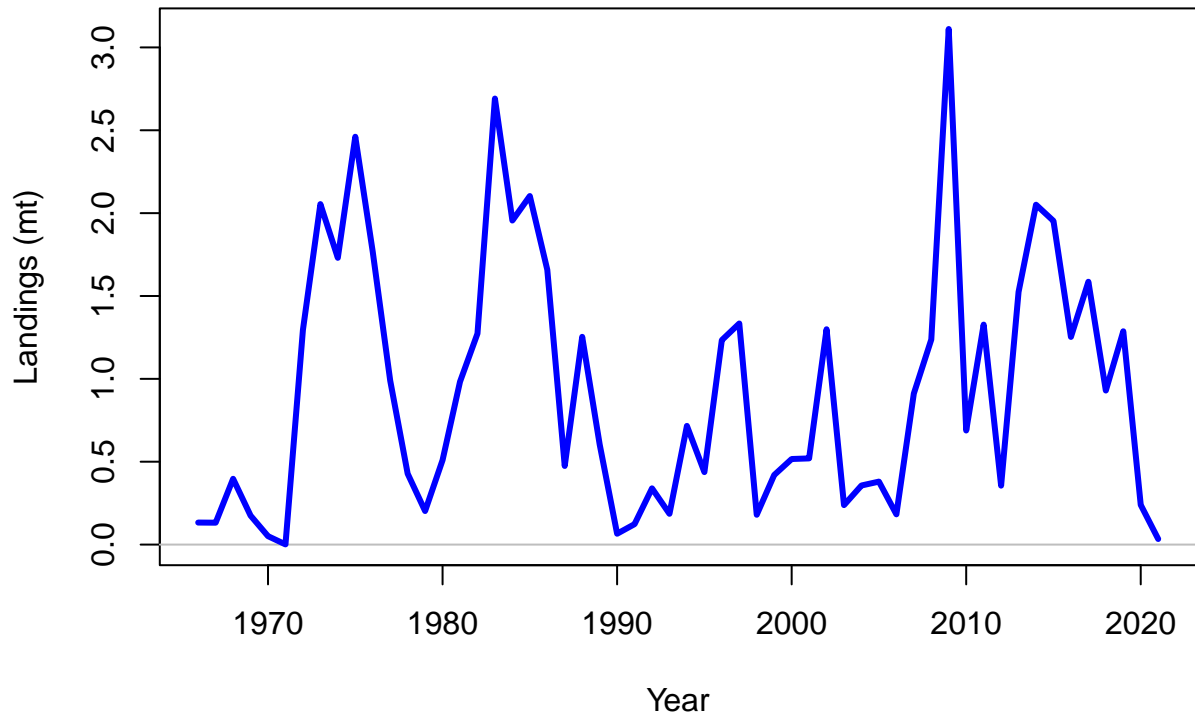
Log recruitment deviation

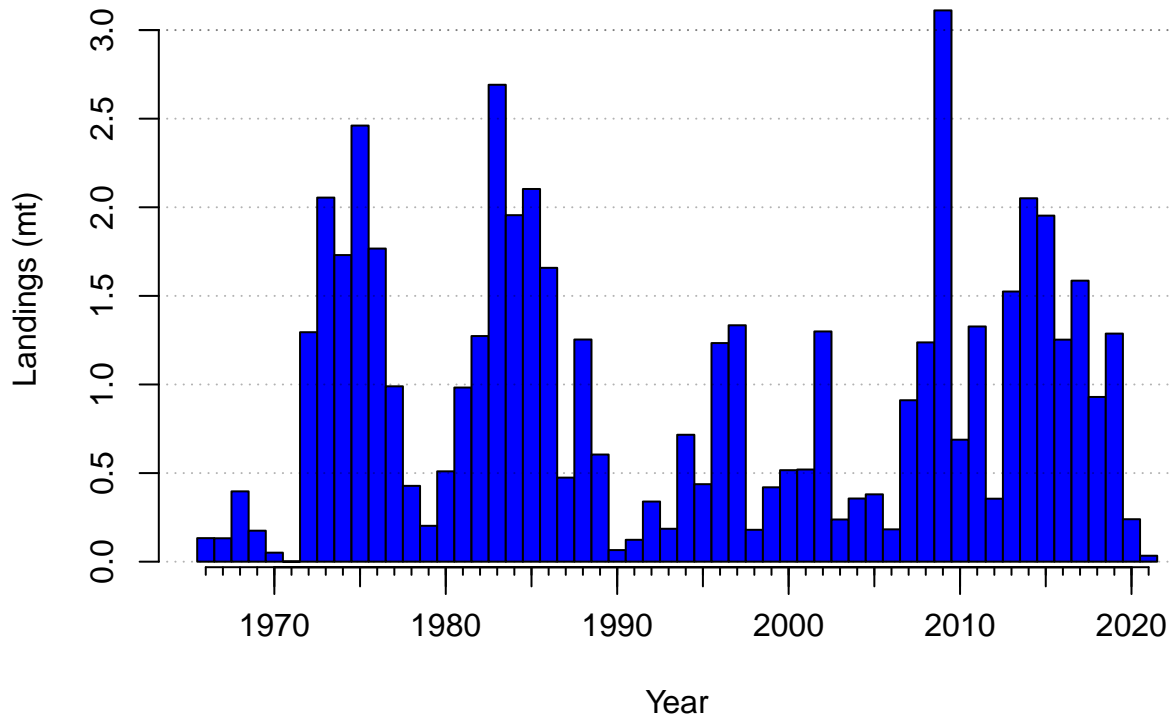
2021

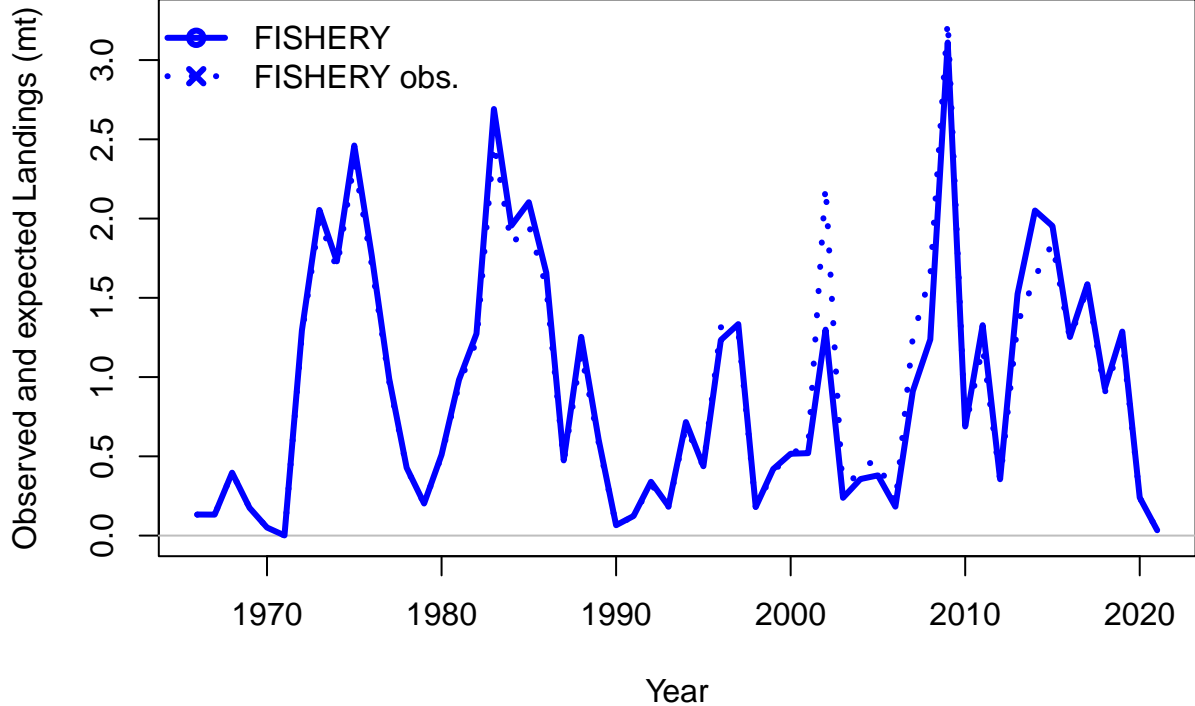
1967

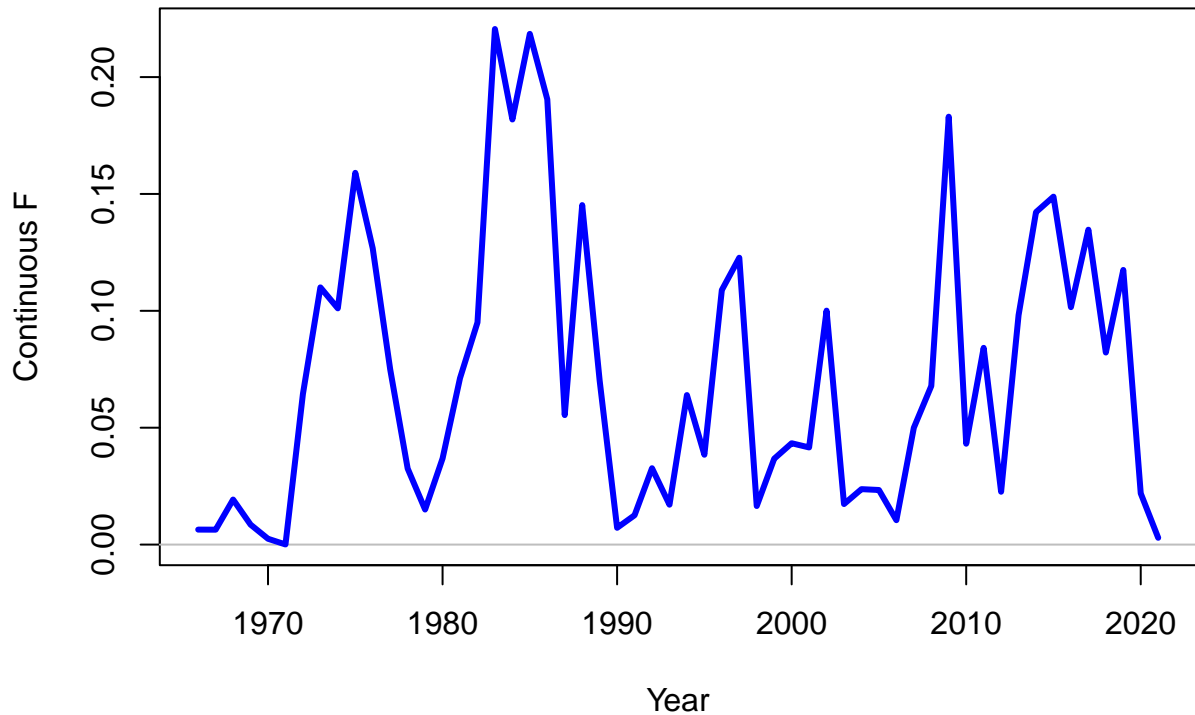
Spawning output (relative to B_0)



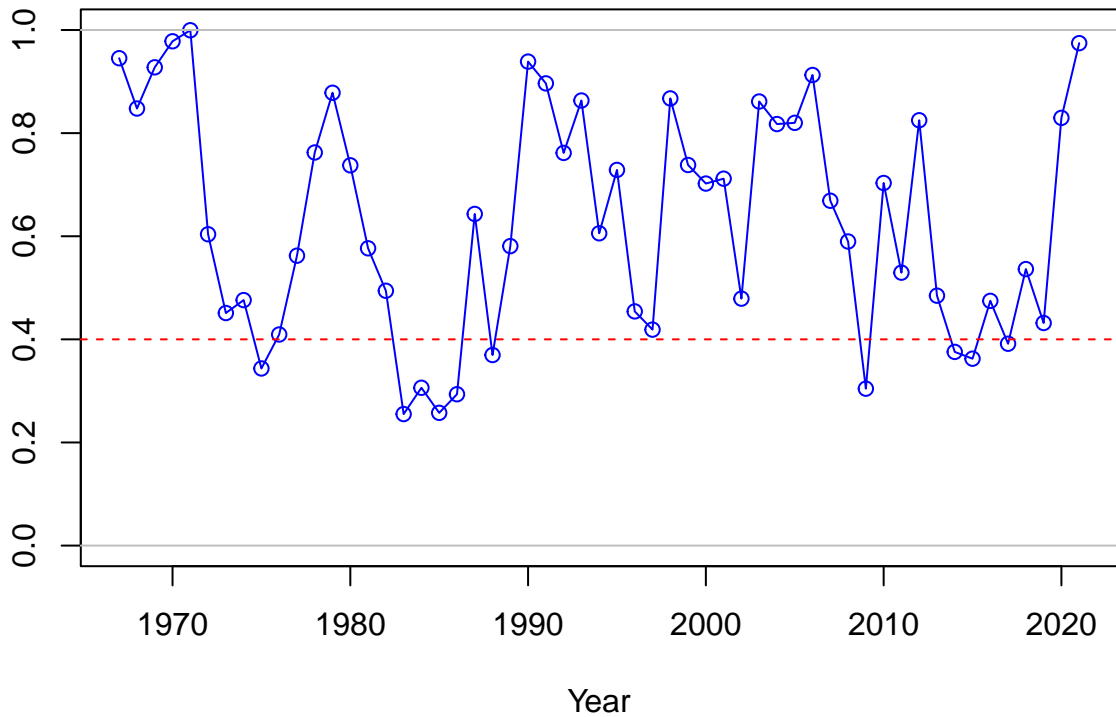


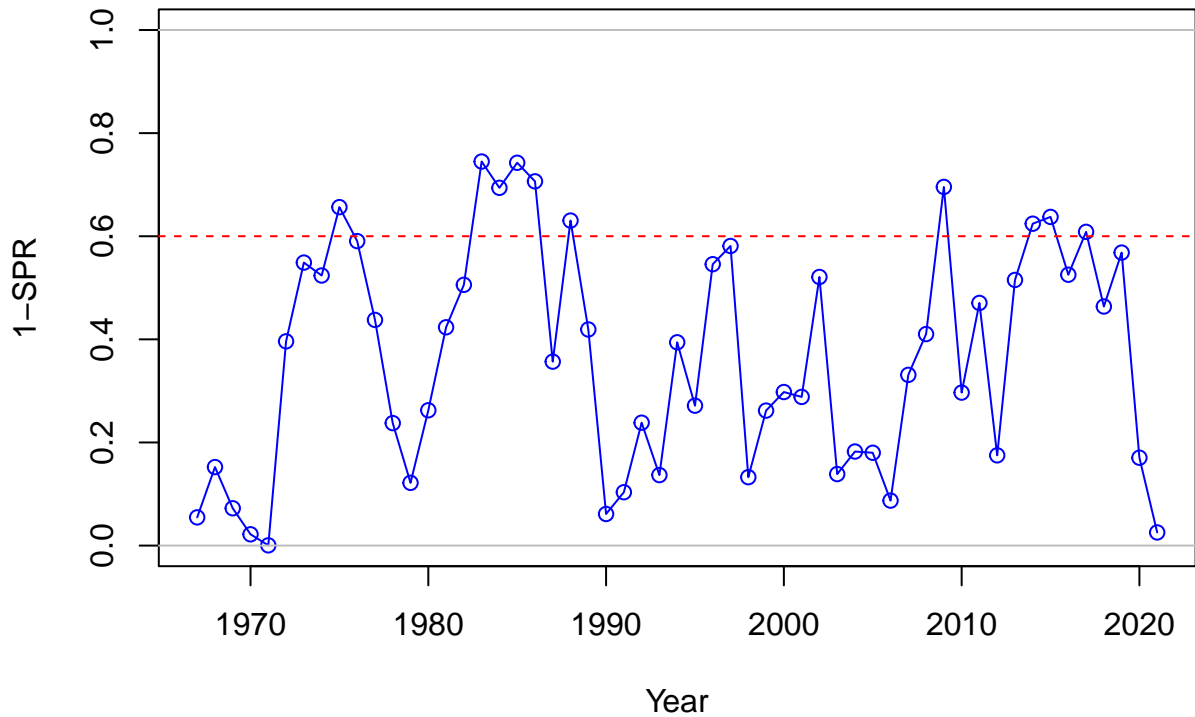




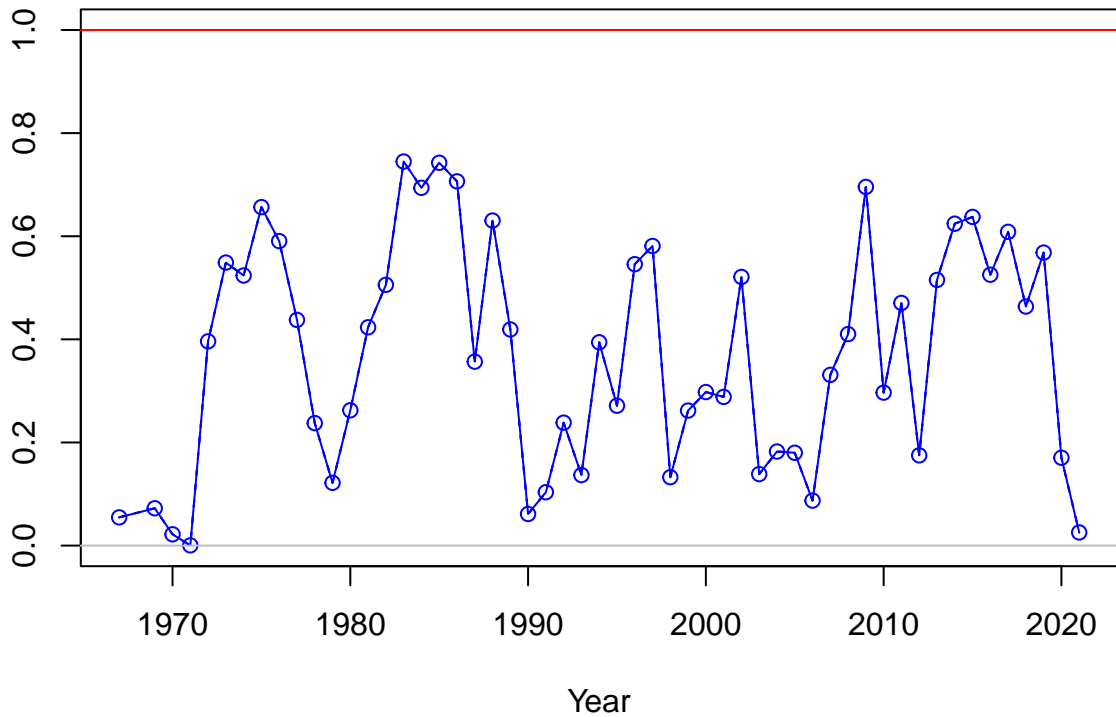


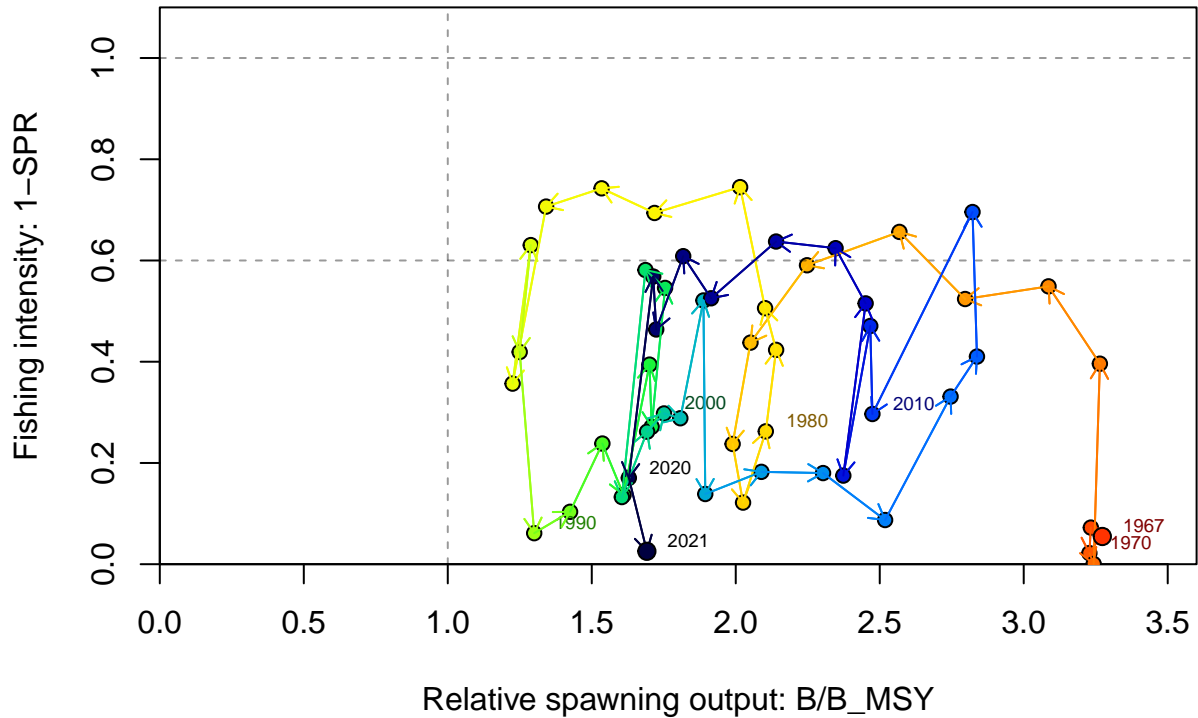
SPR



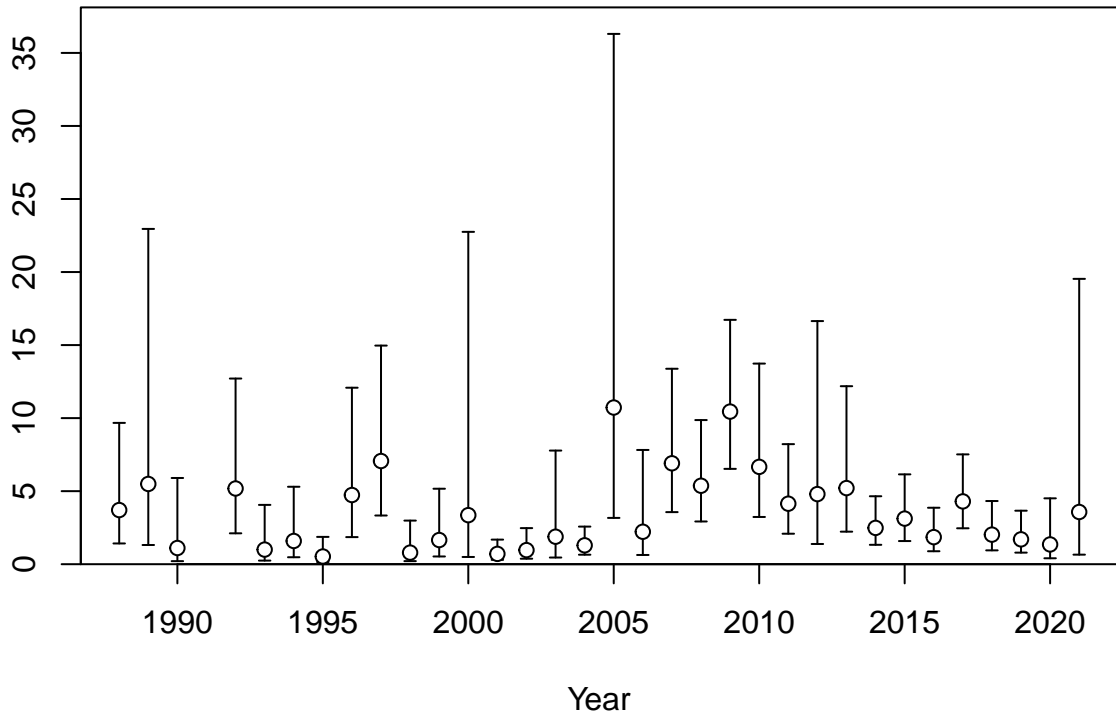


Fishing intensity: 1-SPR

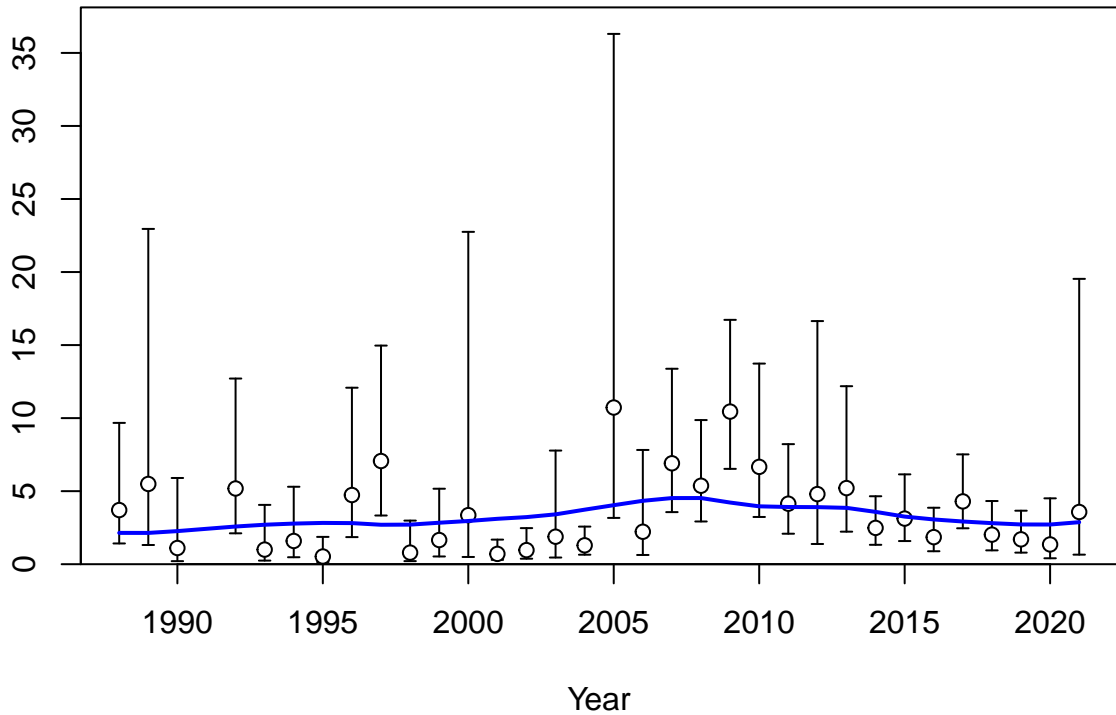


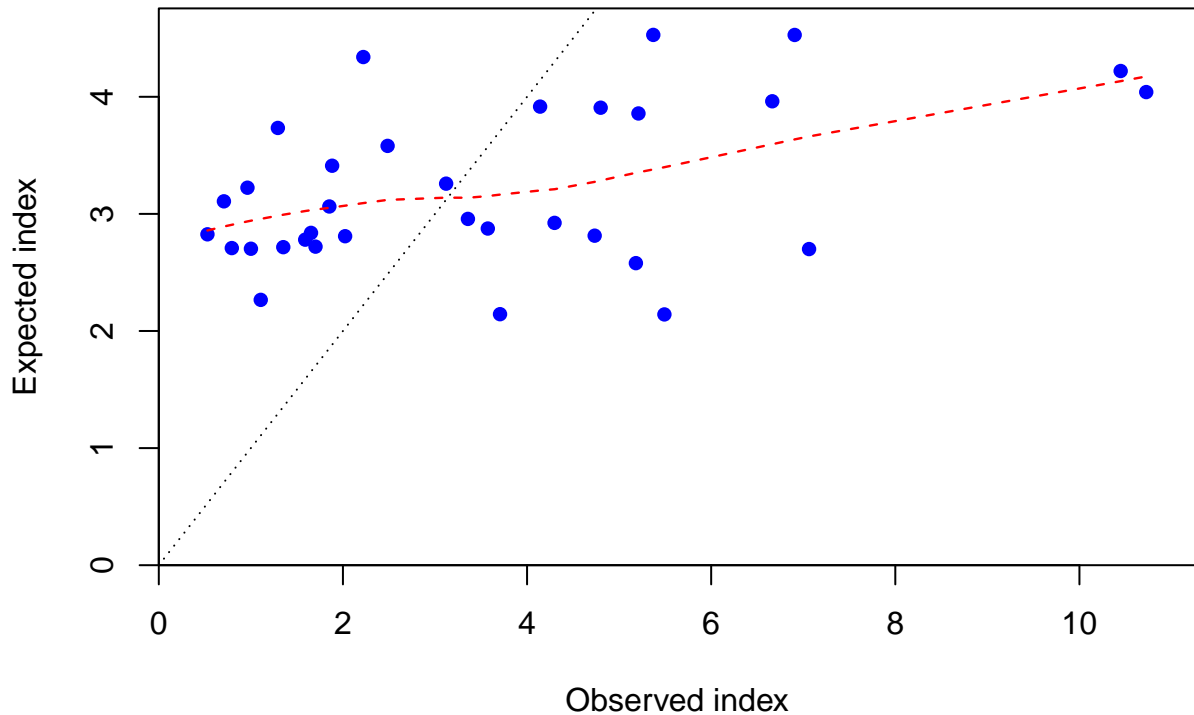


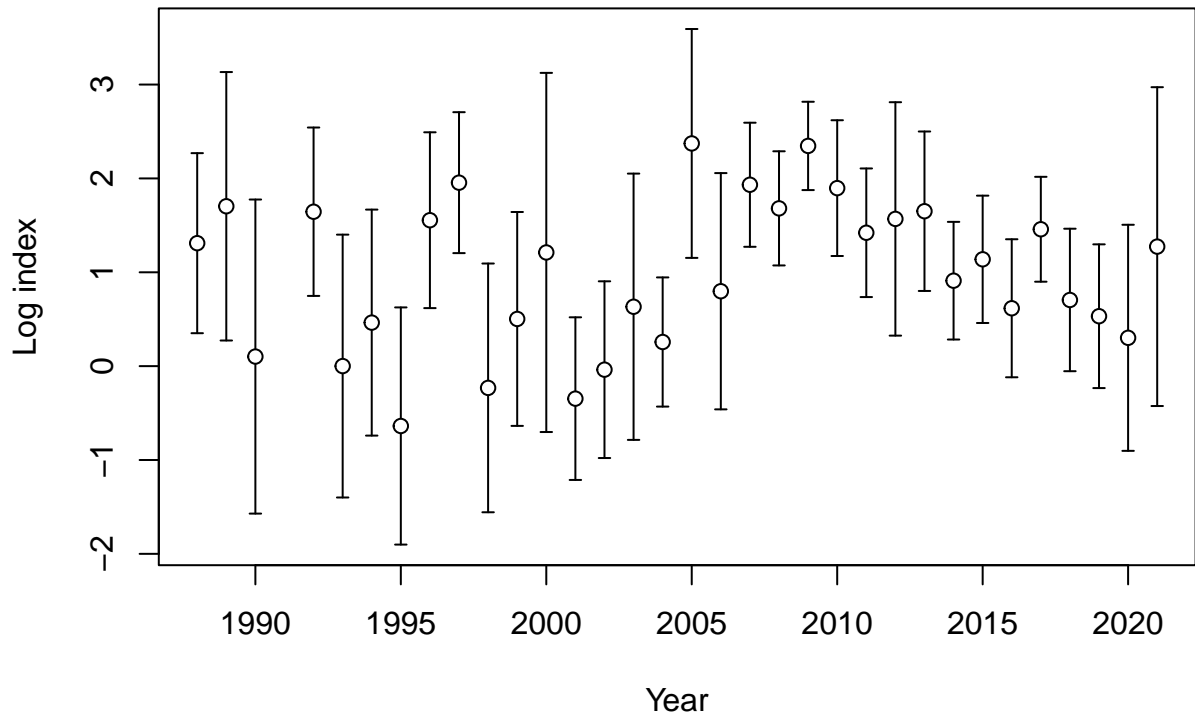
Index

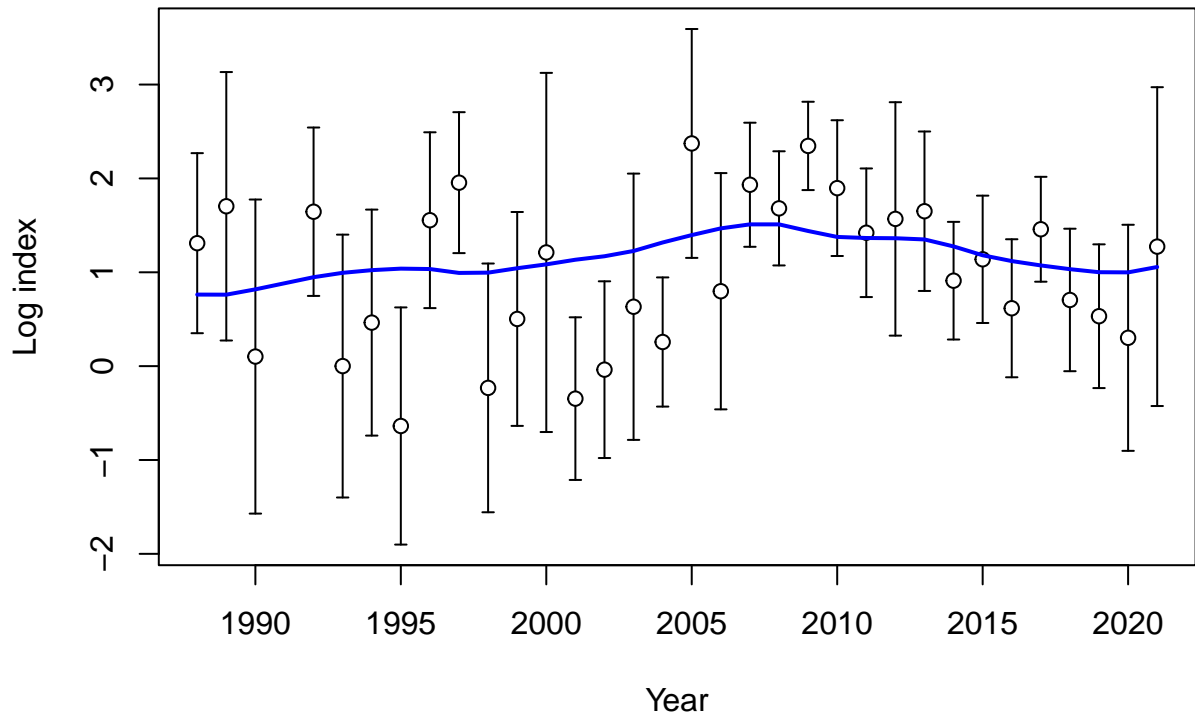


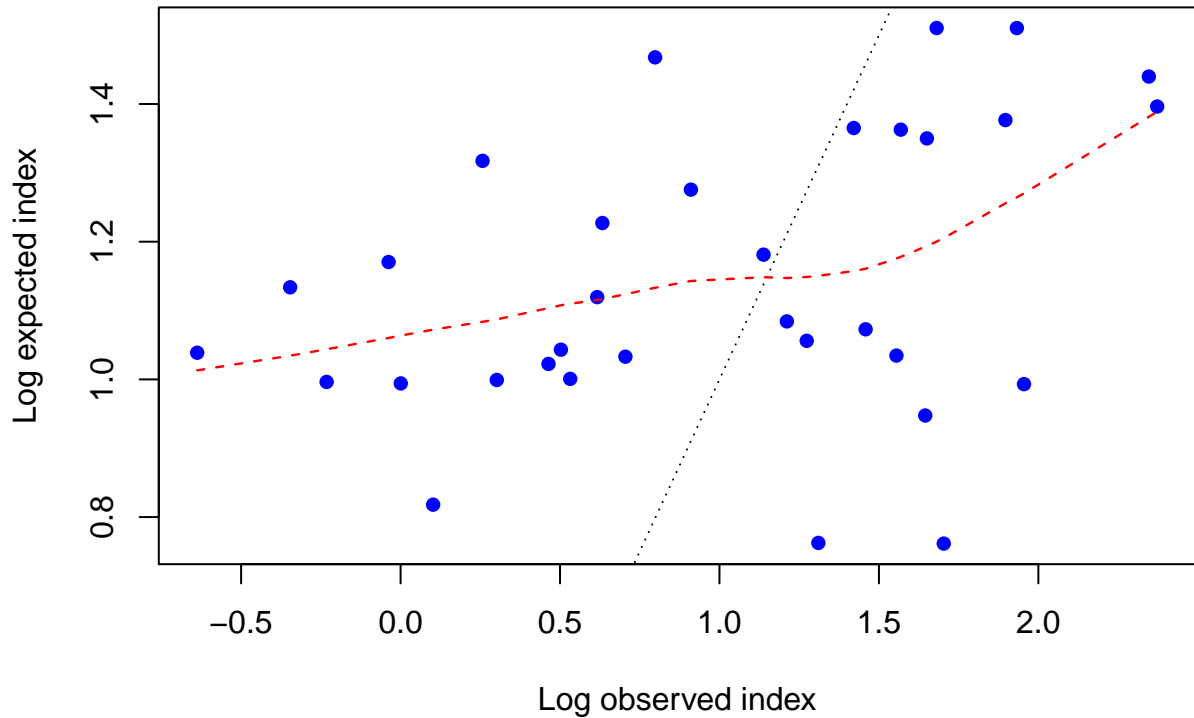
Index

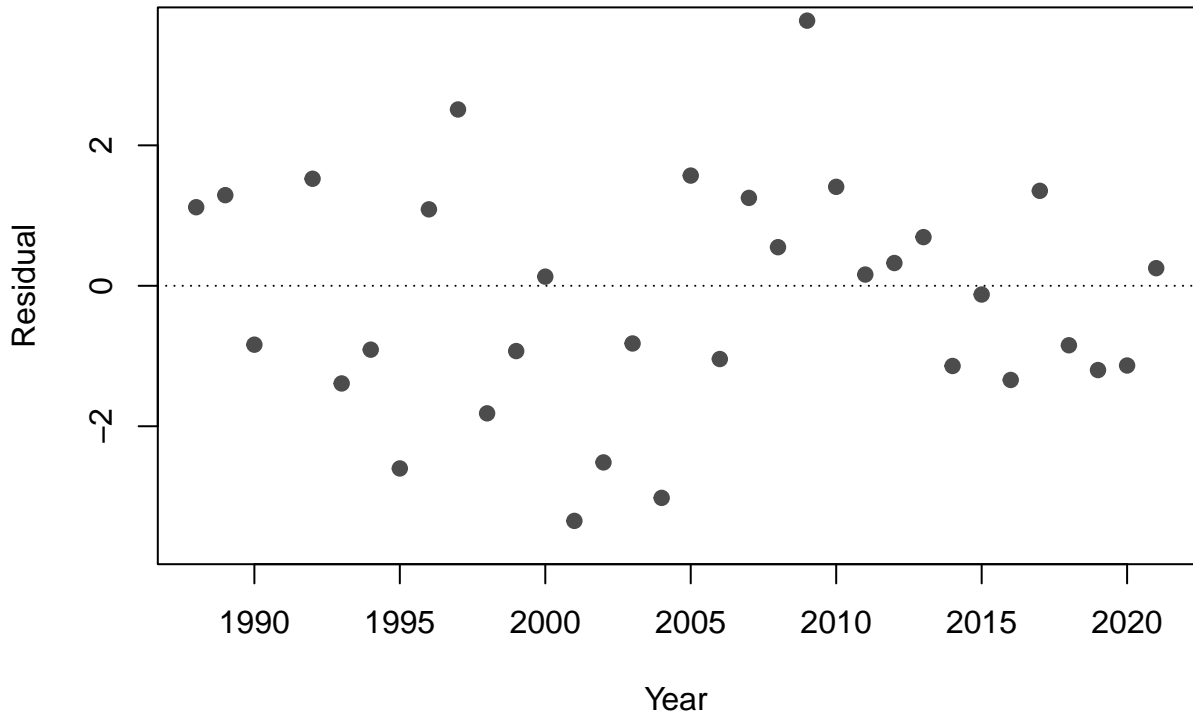


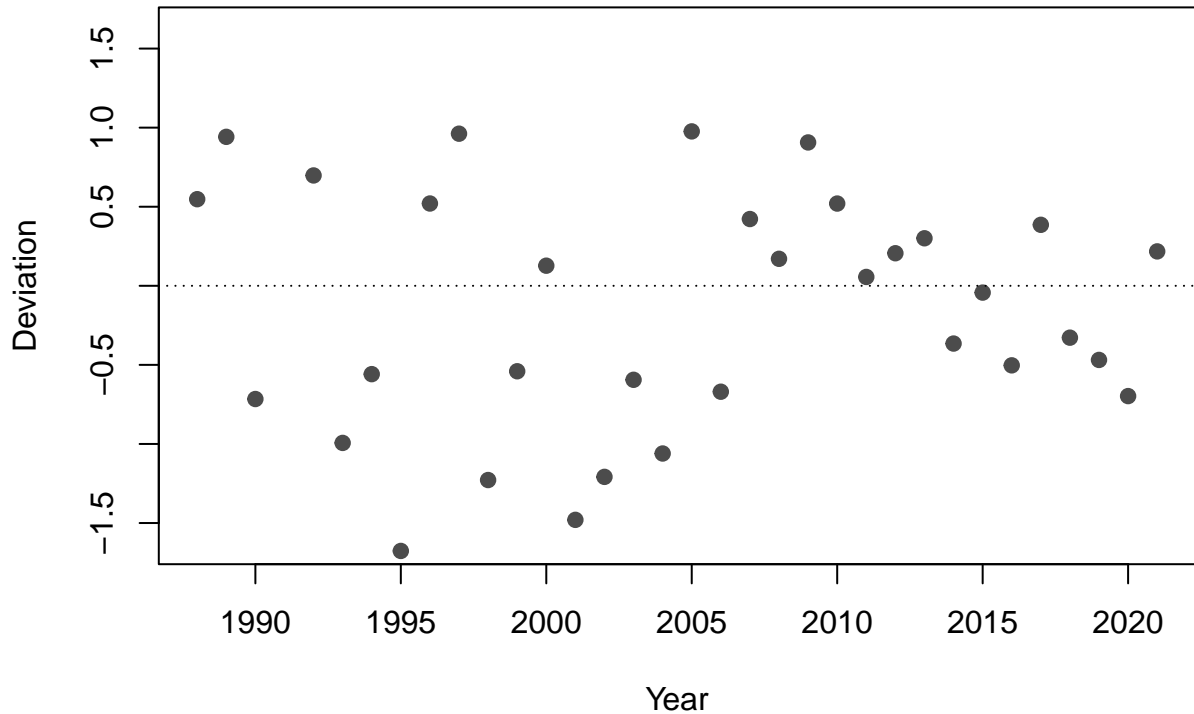


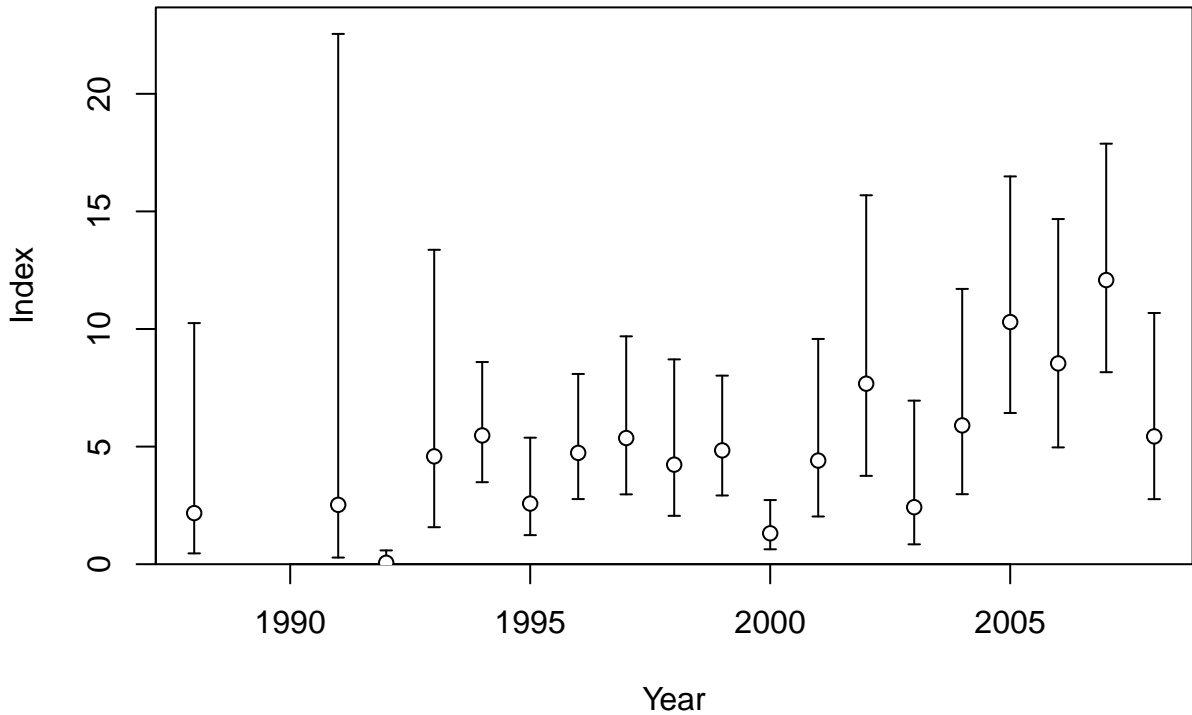


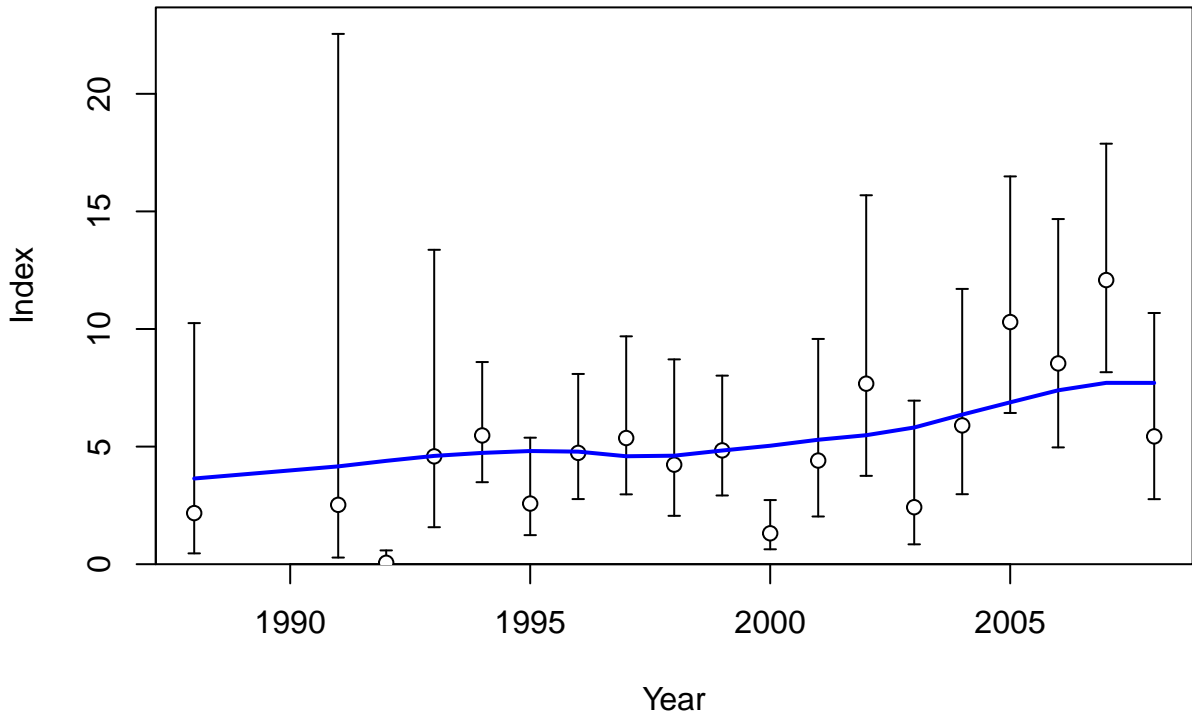


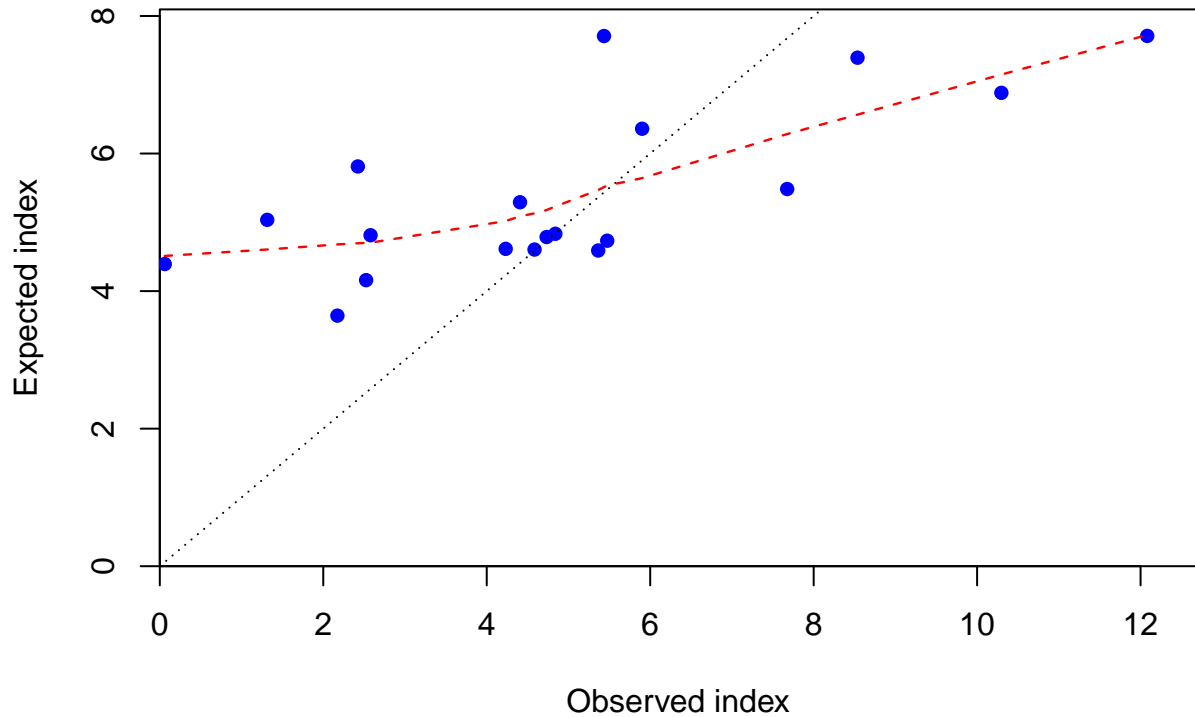


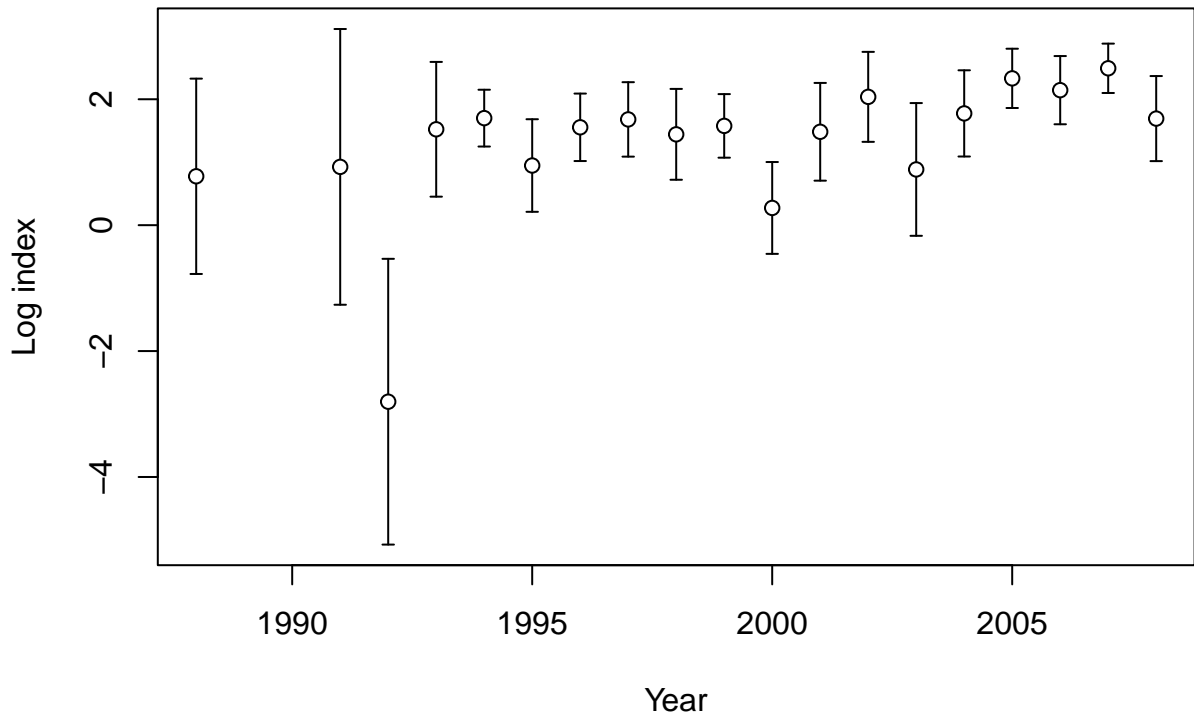


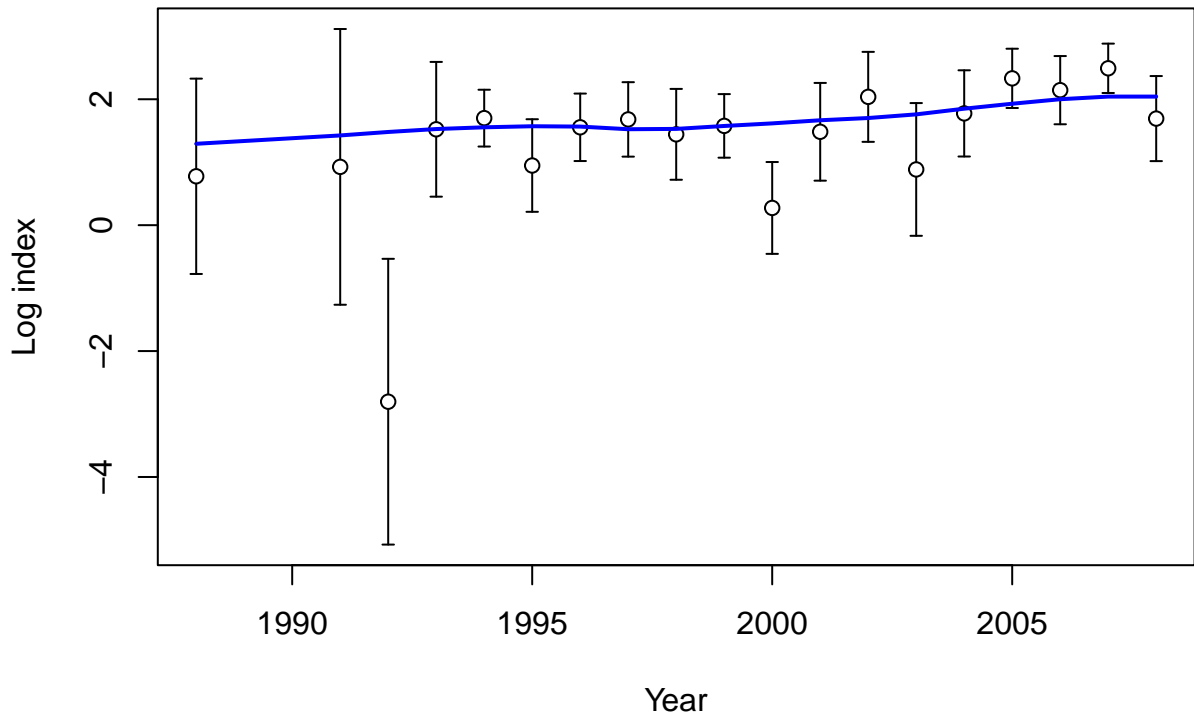


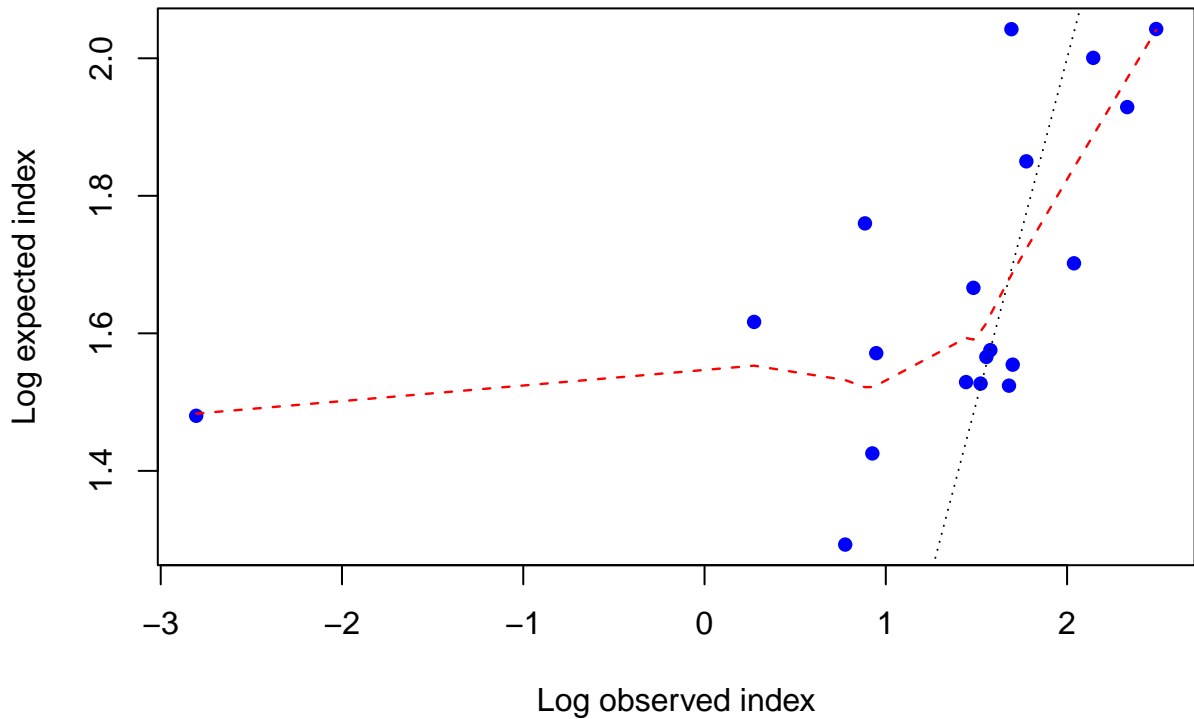


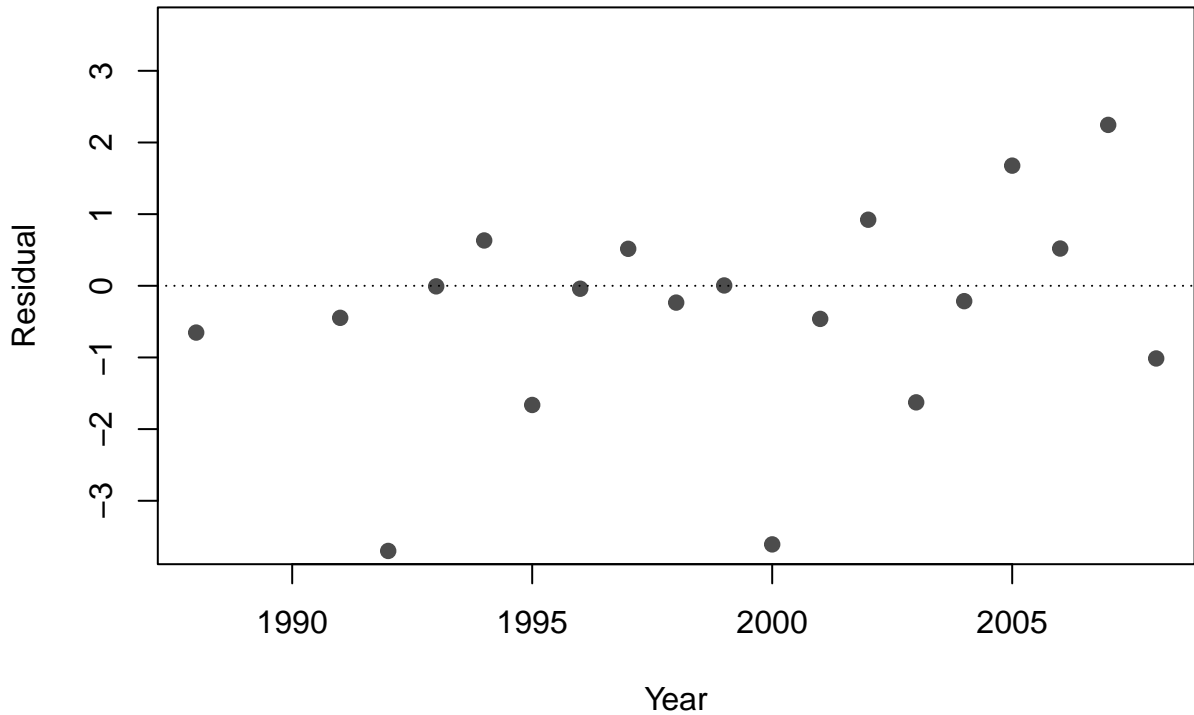


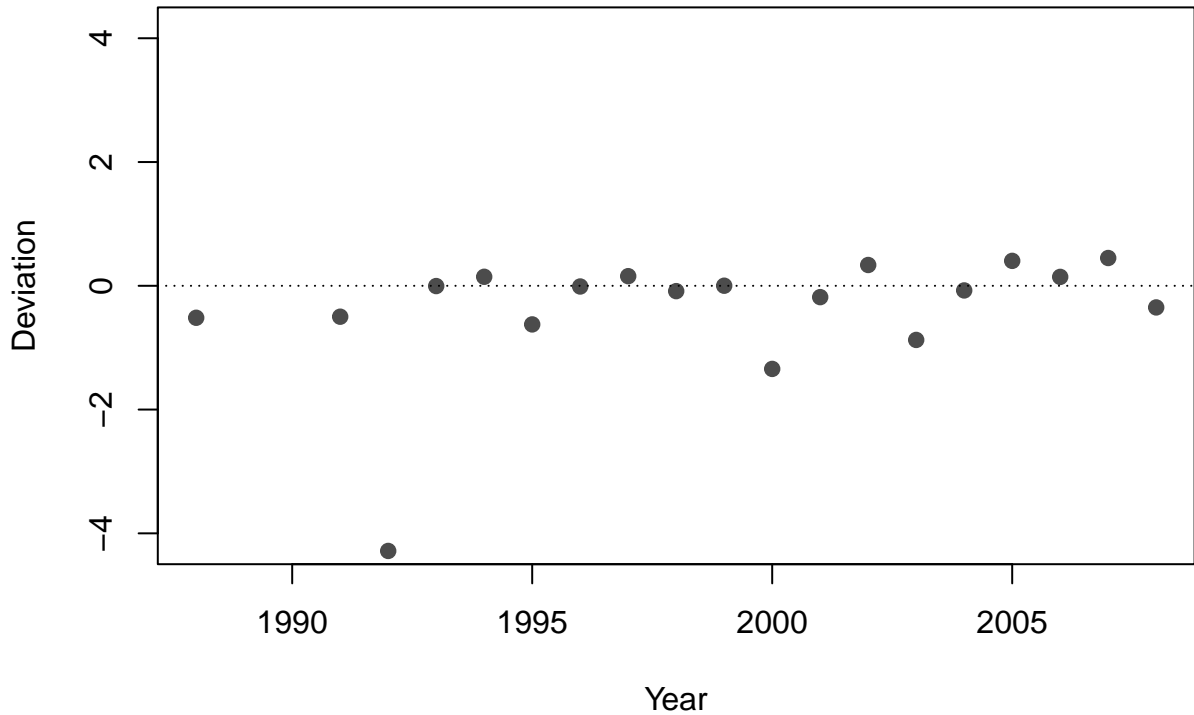




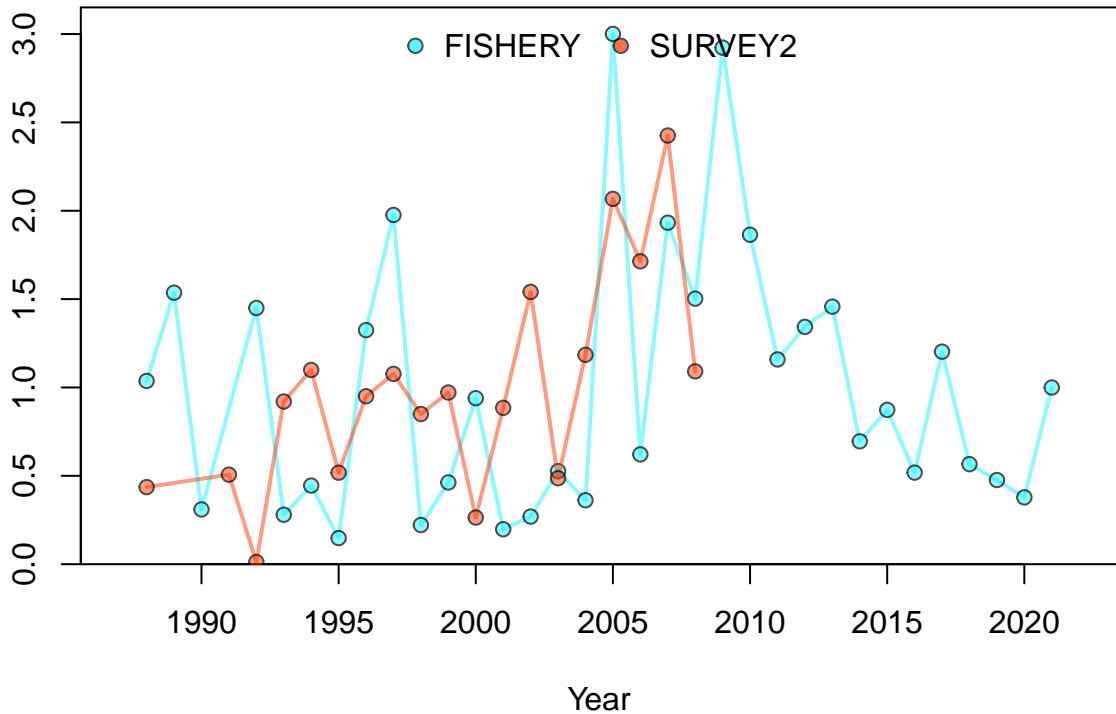


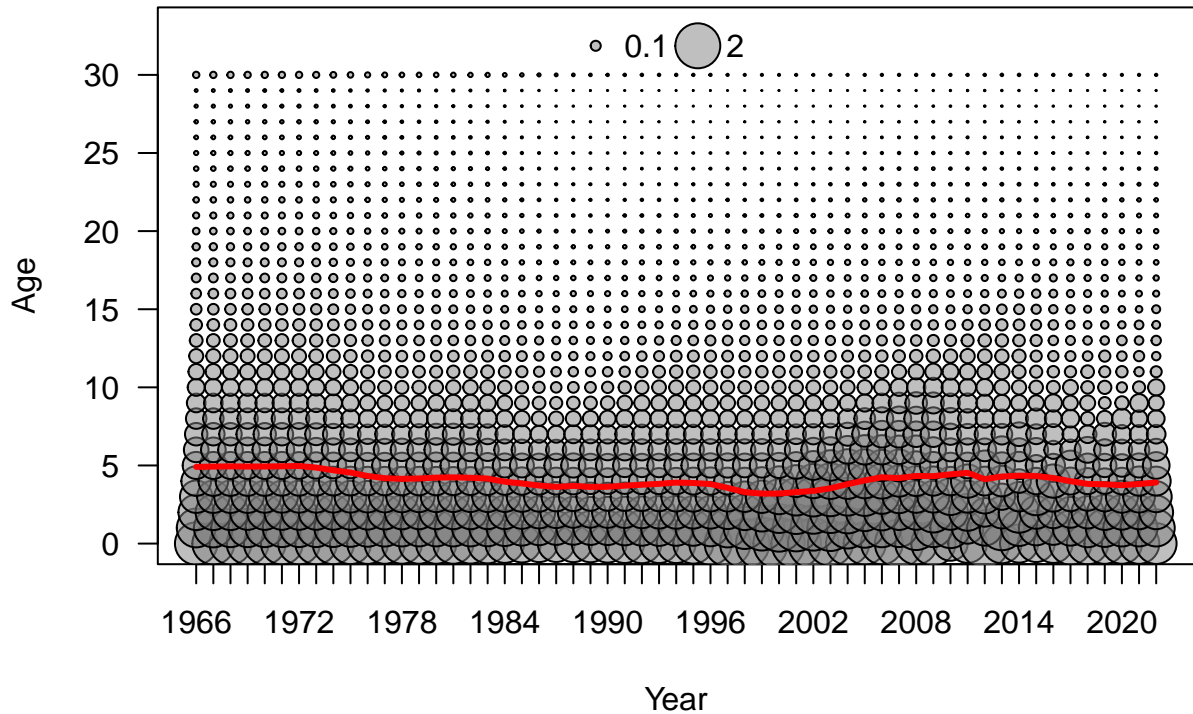


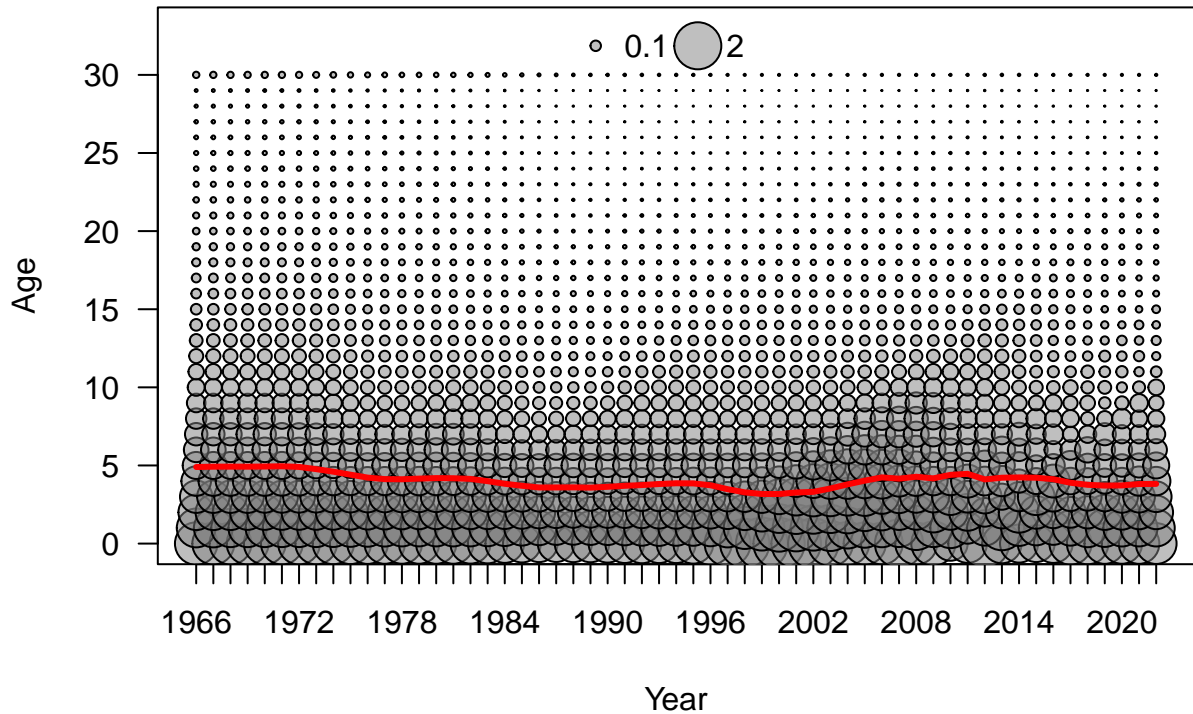


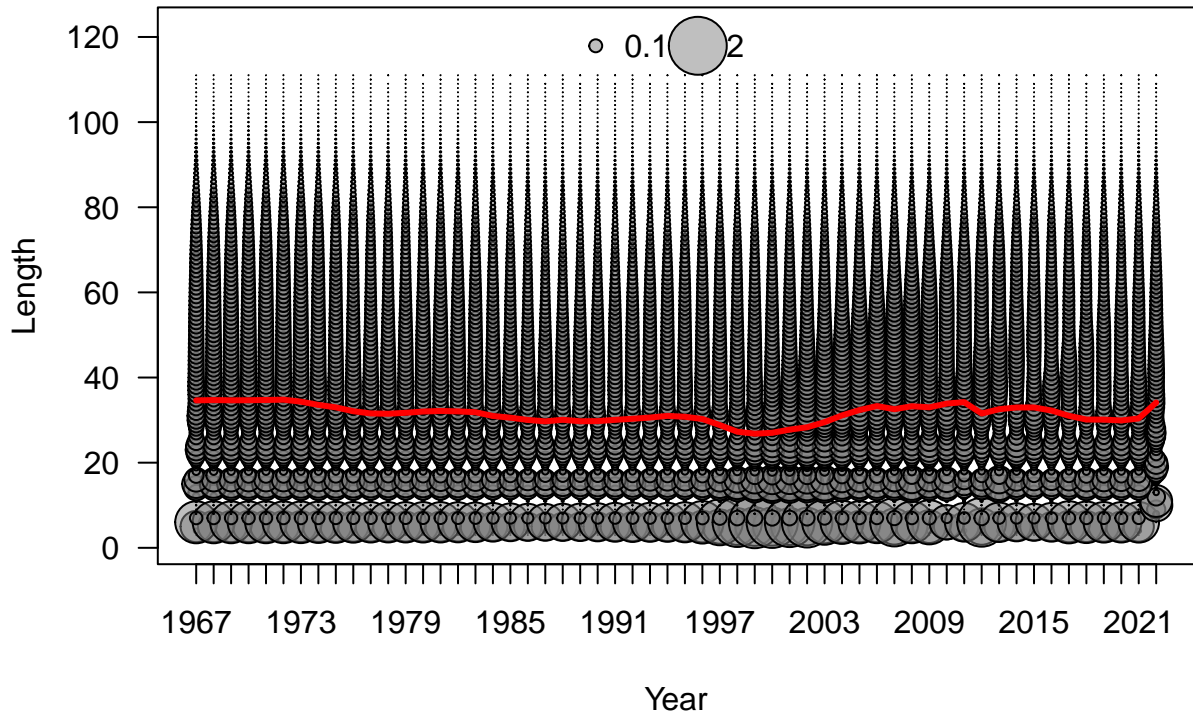


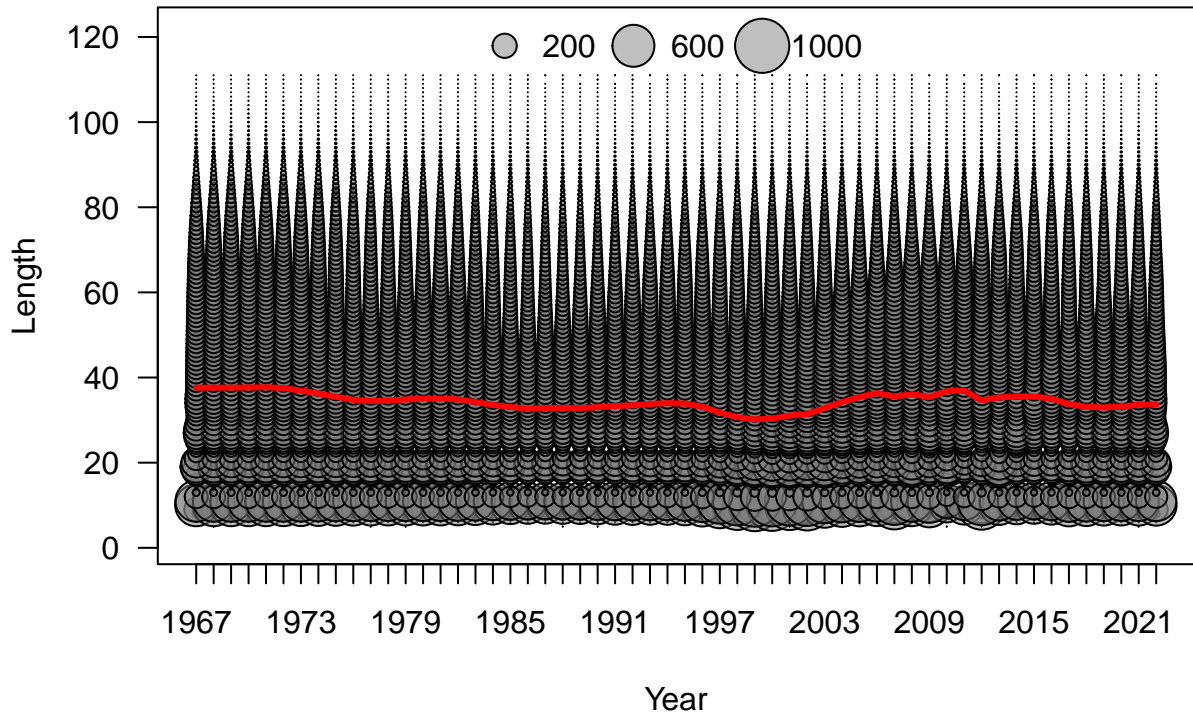
Standardized index

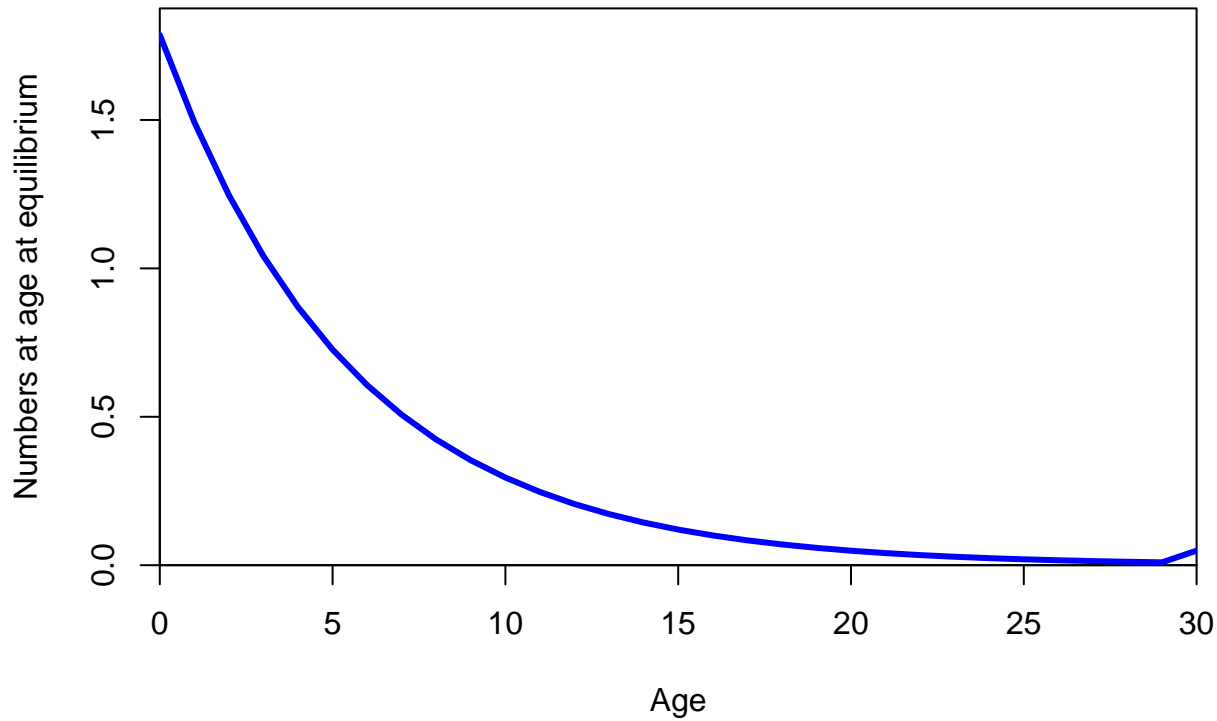






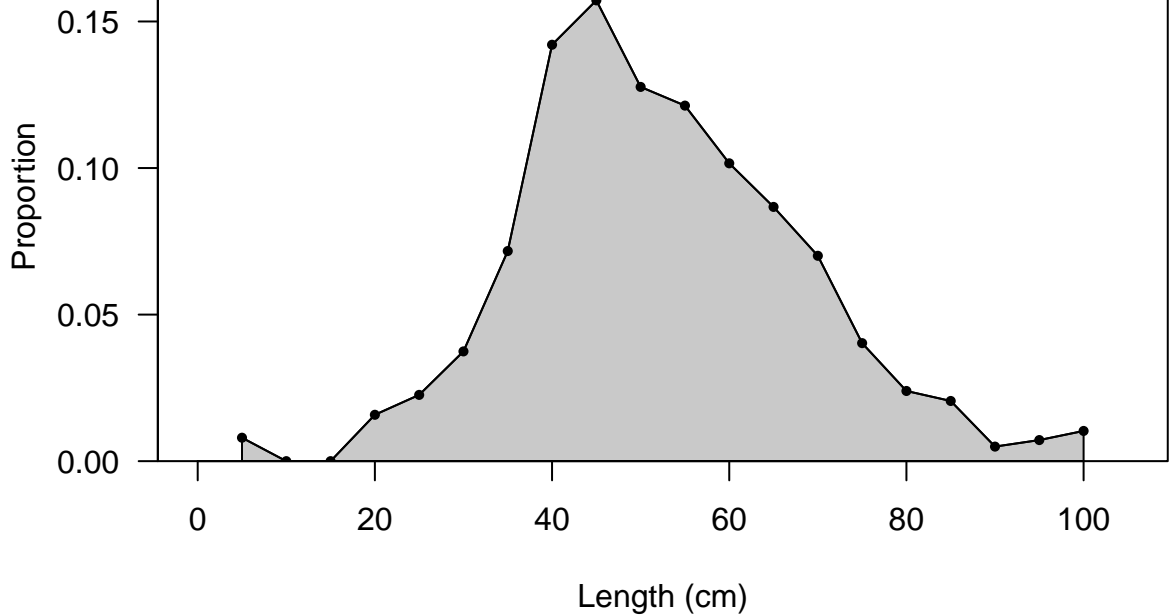


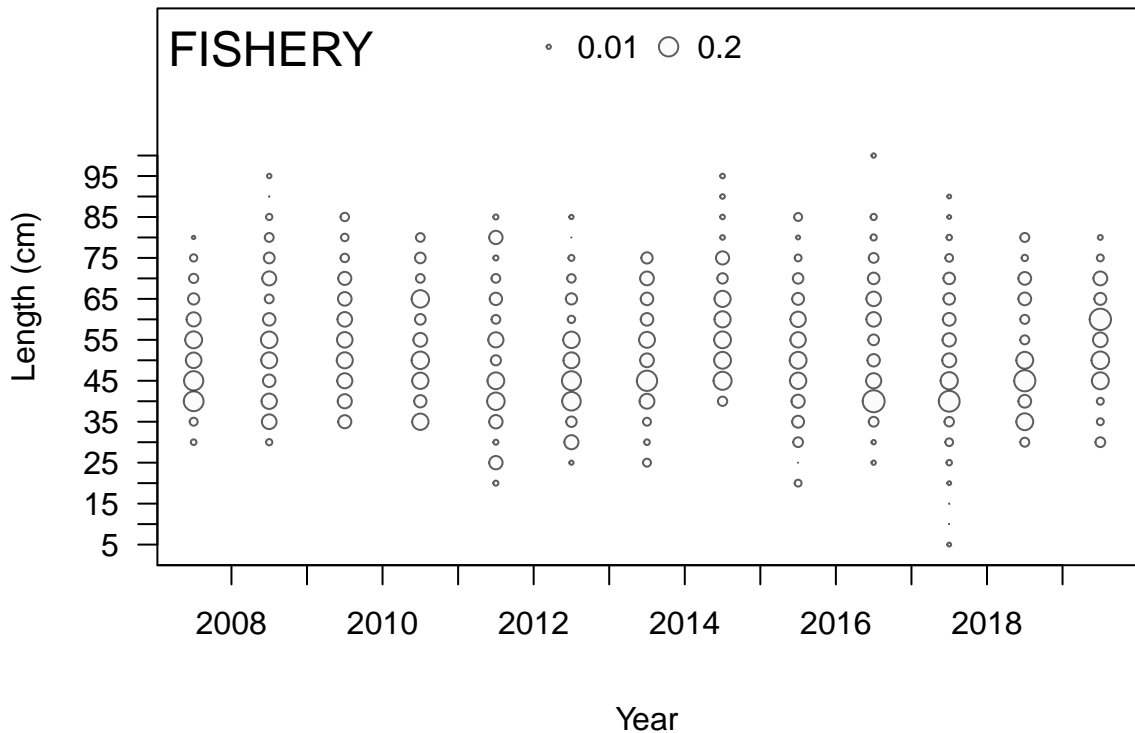




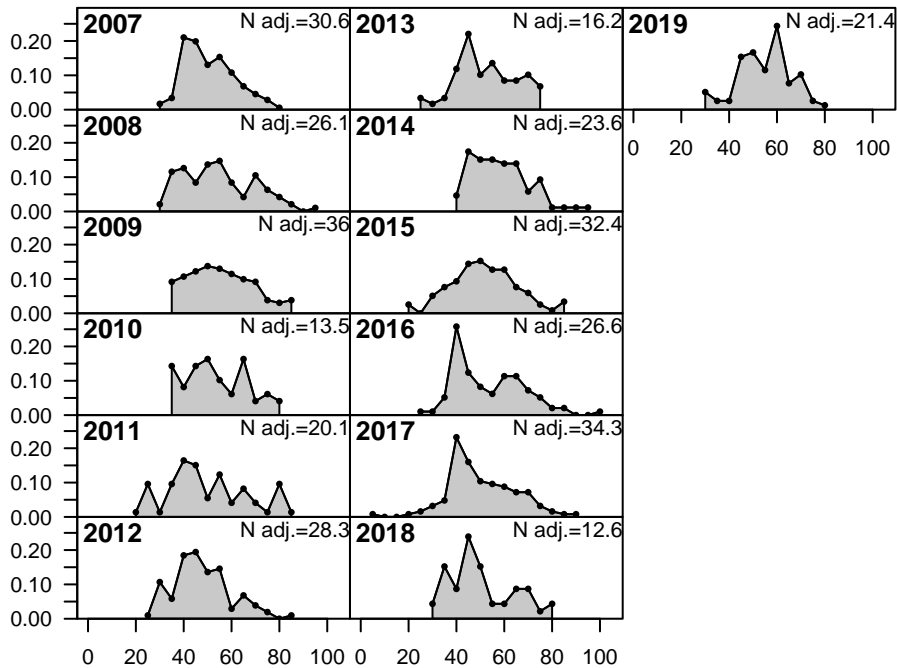
FISHERY

Sum of N adj.=321.7

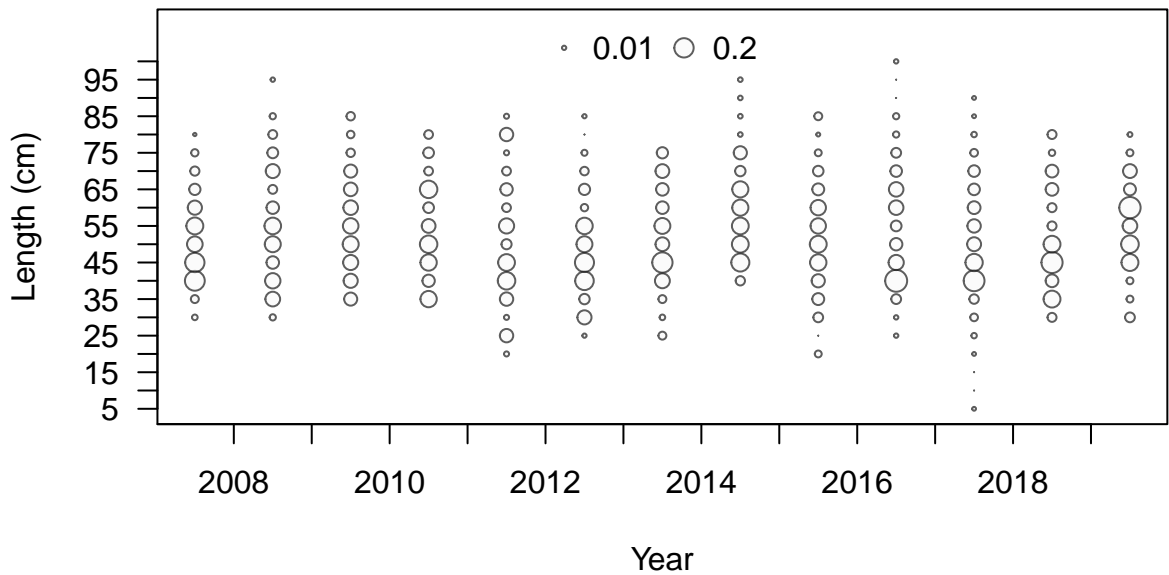




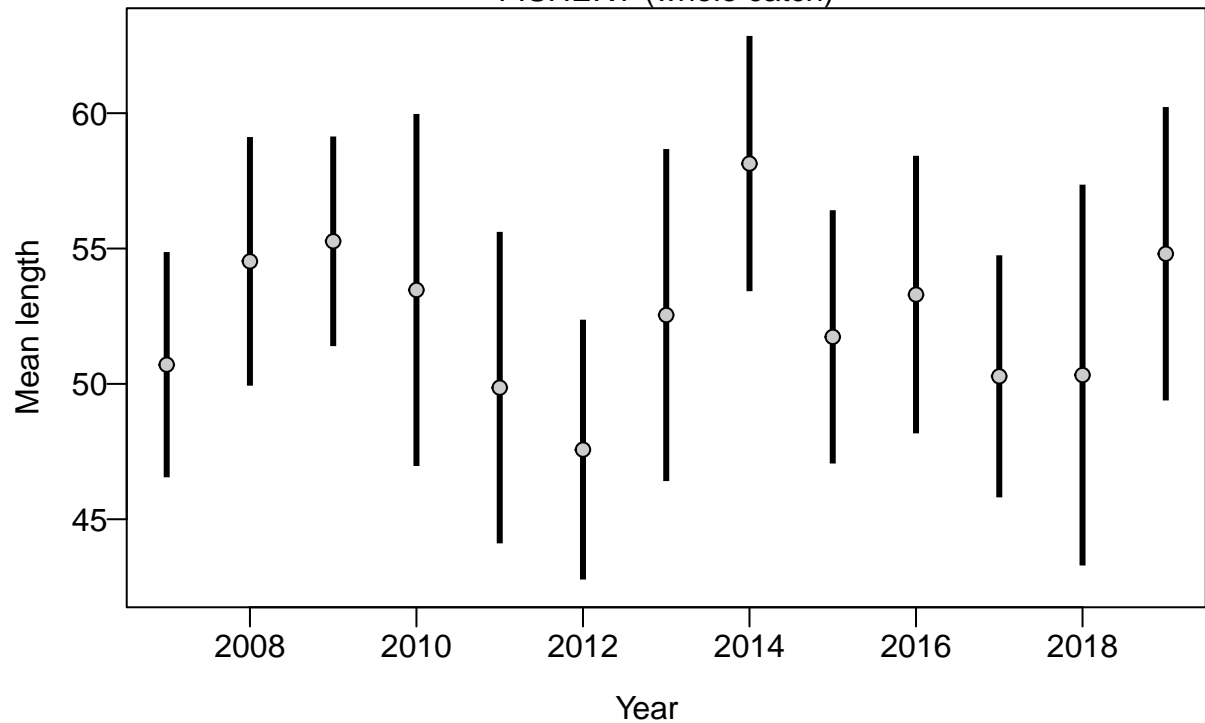
Proportion



Length (cm)

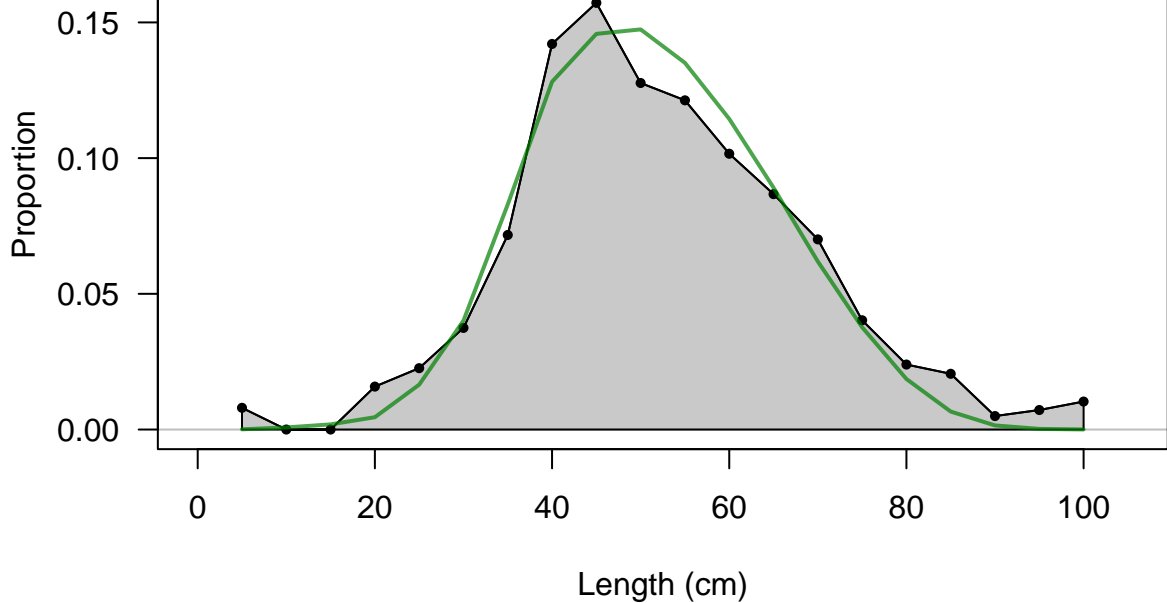


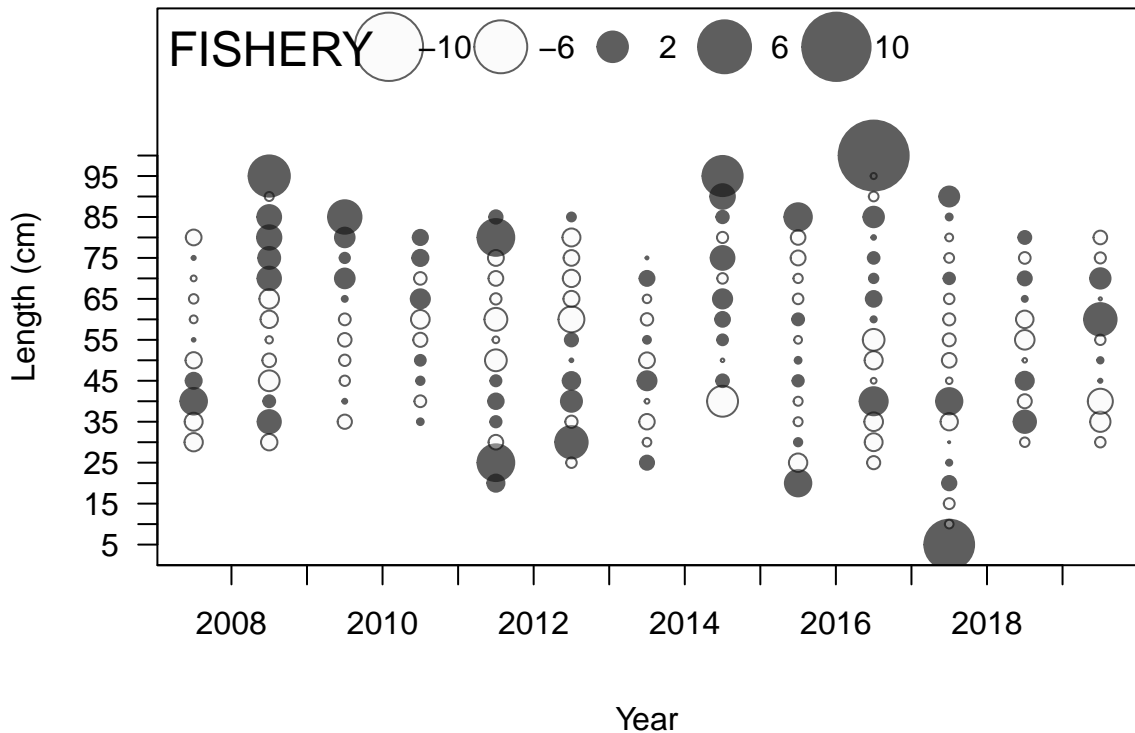
FISHERY (whole catch)



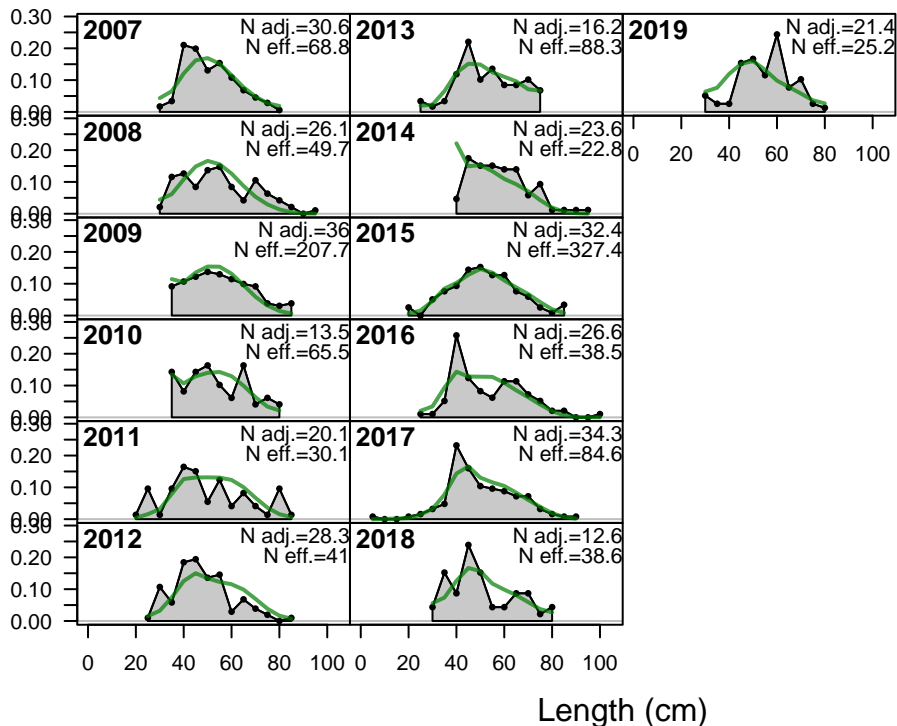
FISHERY

Sum of N adj.=321.7
Sum of N eff.=1088.3

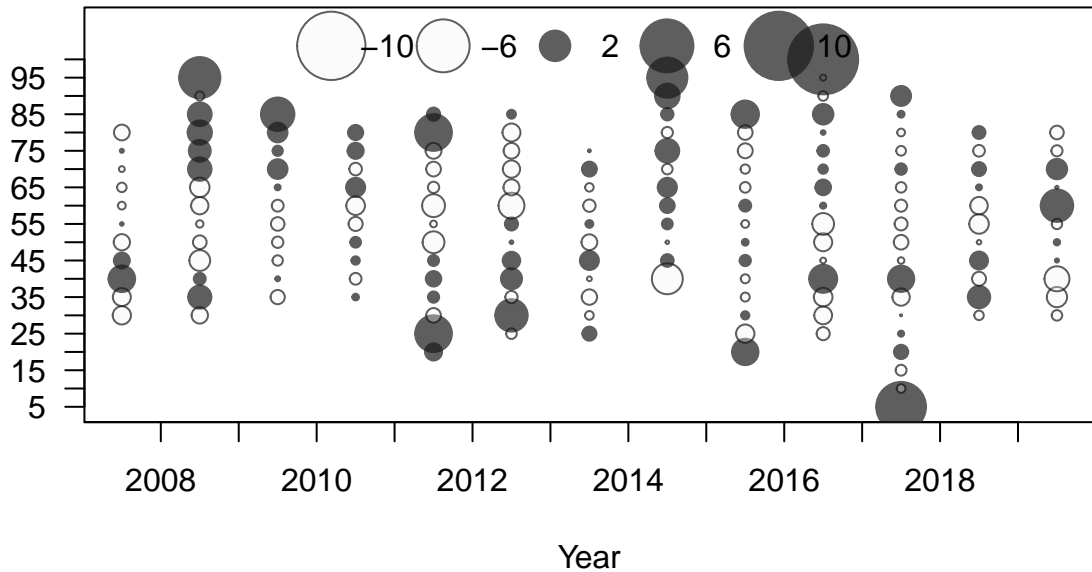




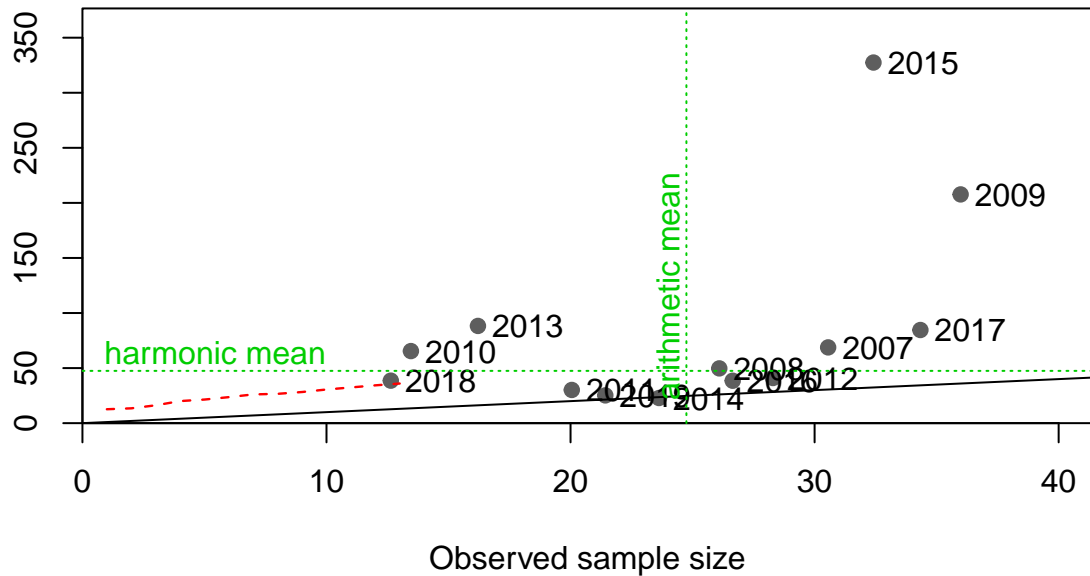
Proportion



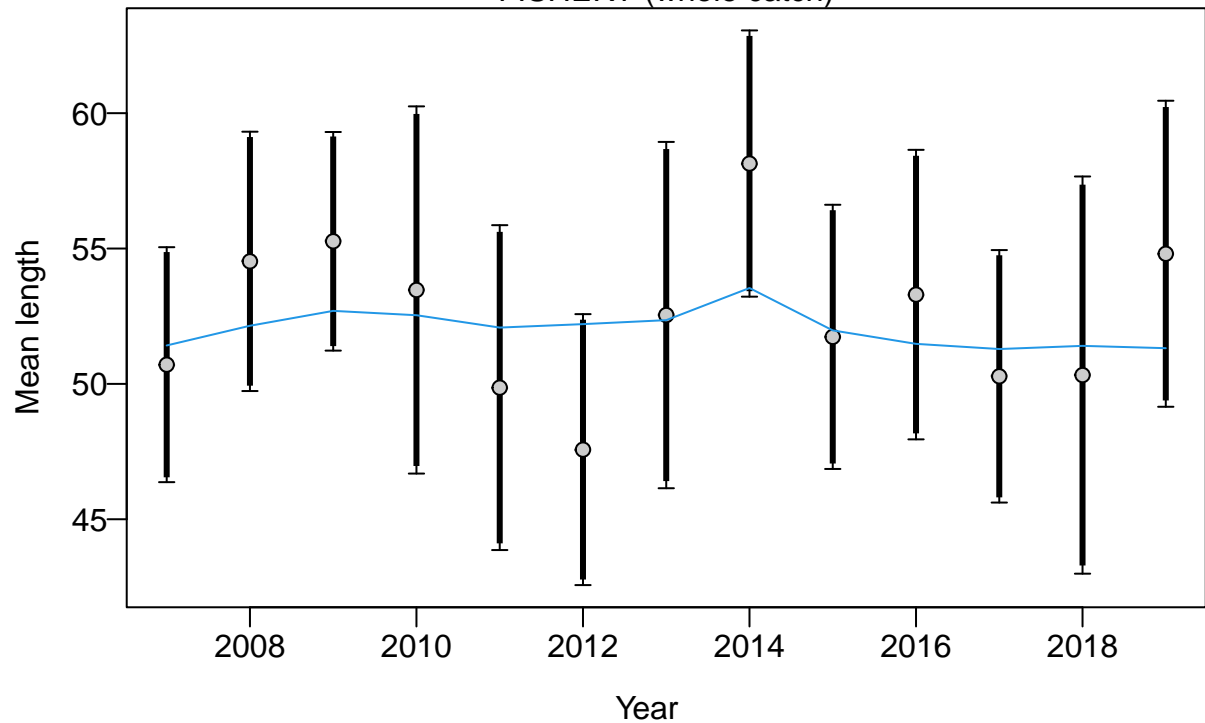
Length (cm)

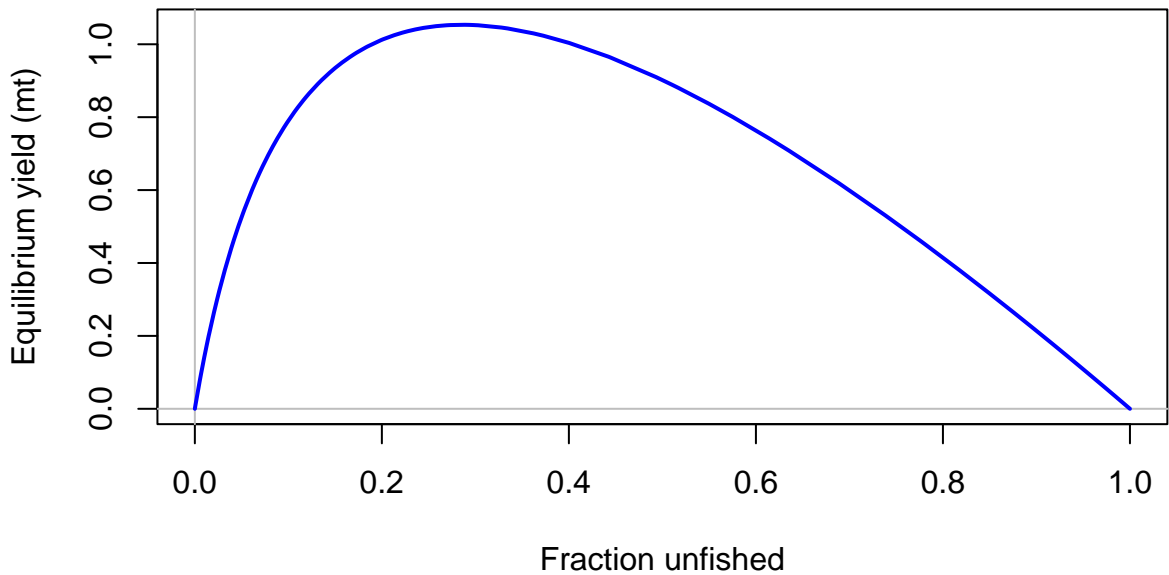


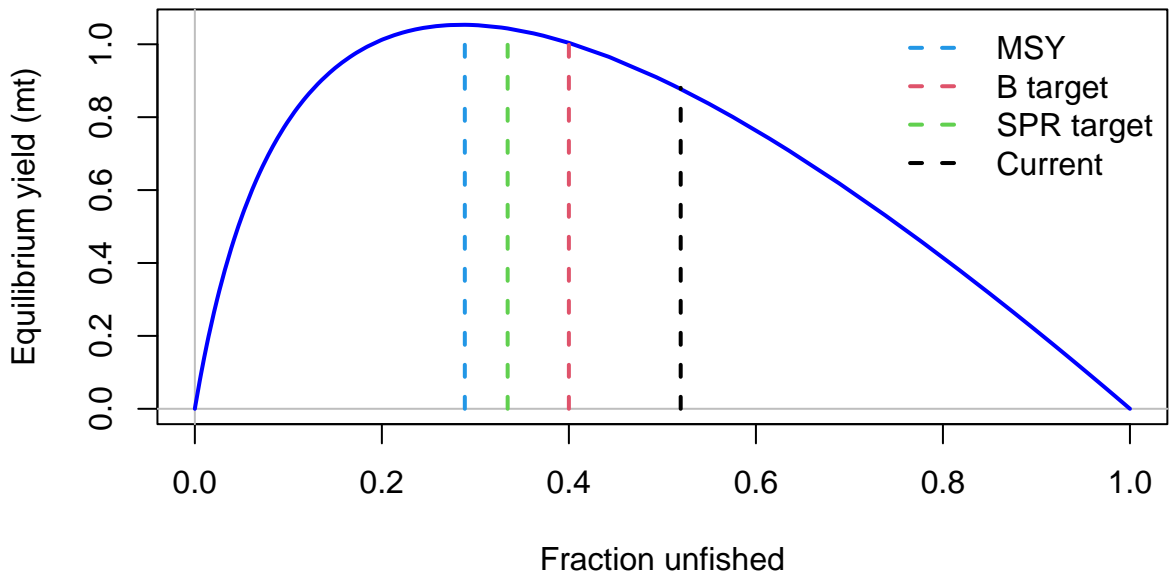
Effective sample size

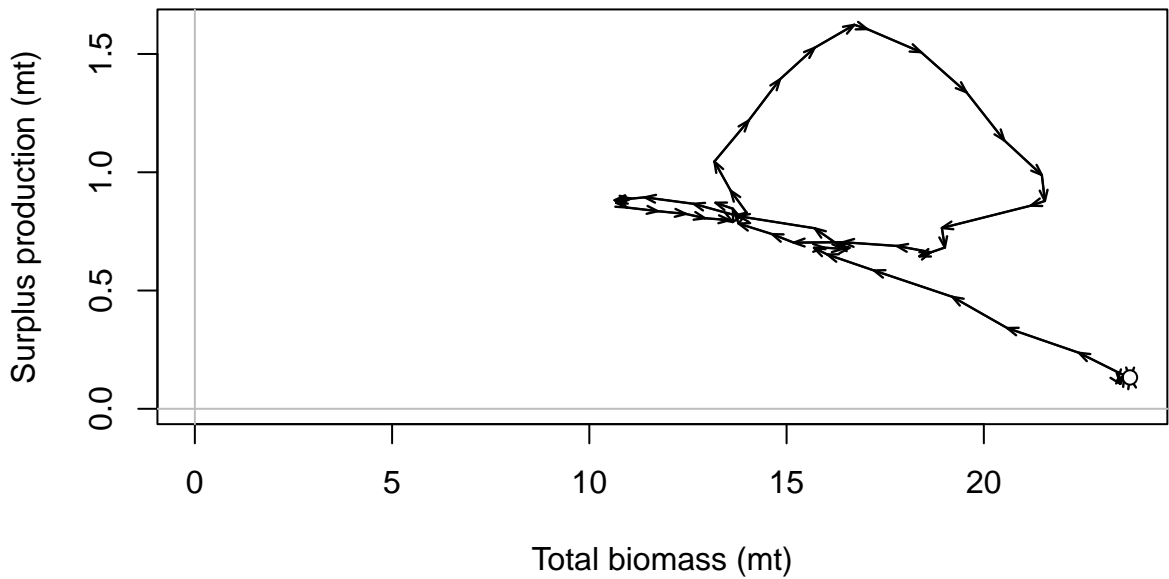


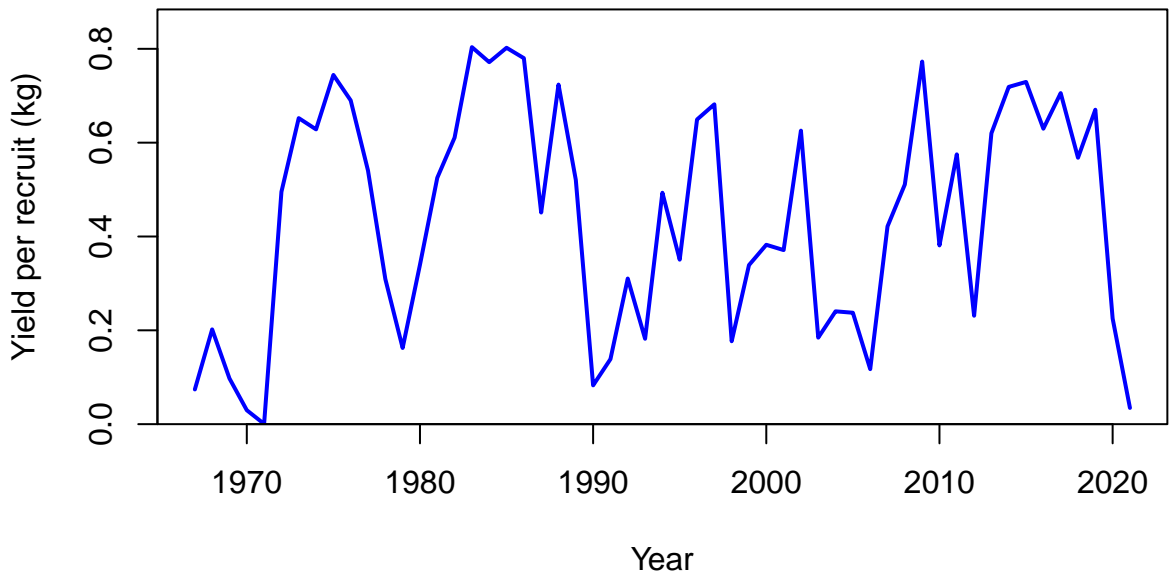
FISHERY (whole catch)

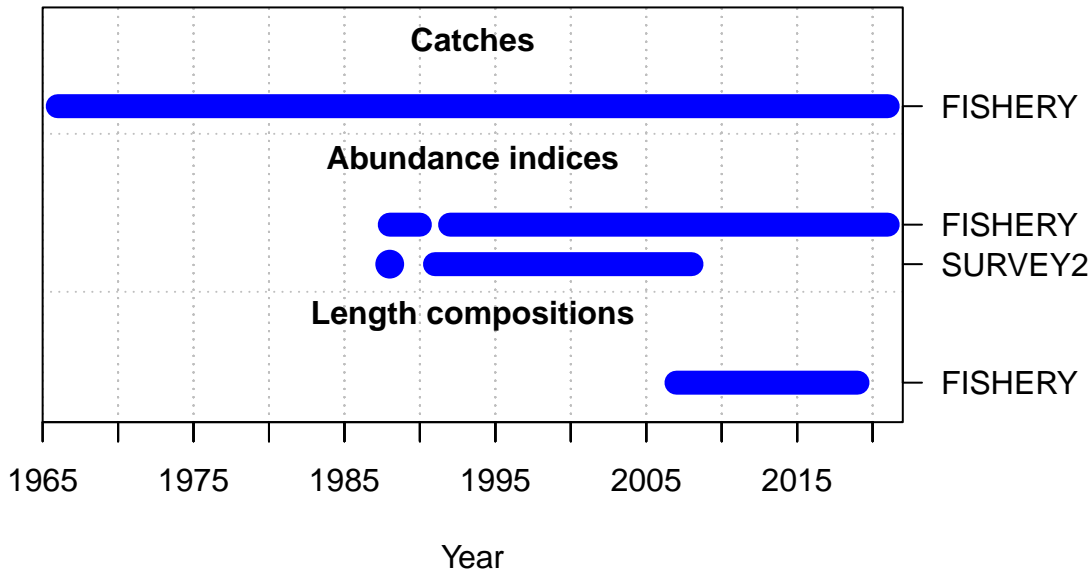


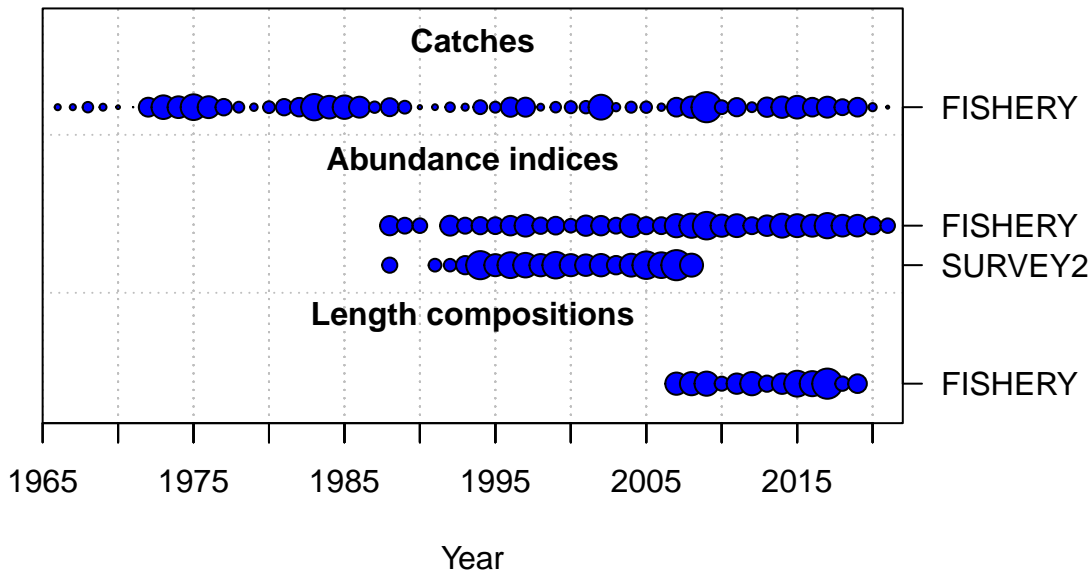










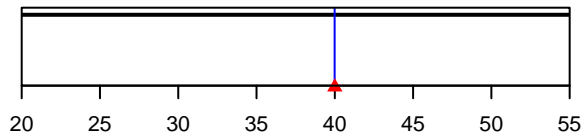


Density

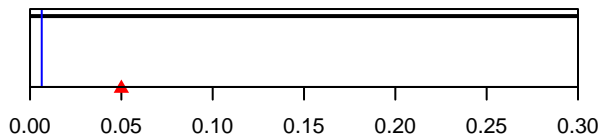
SR_LN(R0)



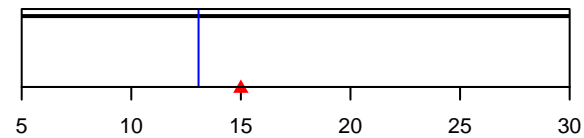
Size_inflection_FISHERY(1)



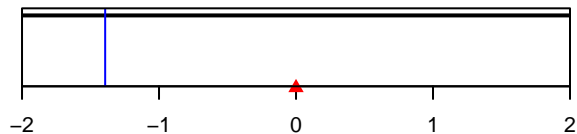
InitF_seas_1_flt_1FISHERY



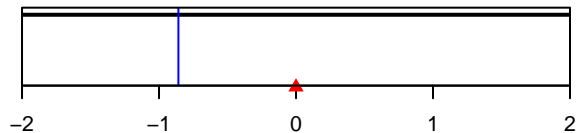
Size_95%width_FISHERY(1)



LnQ_base_FISHERY(1)



LnQ_base_SURVEY2(2)



Parameter value