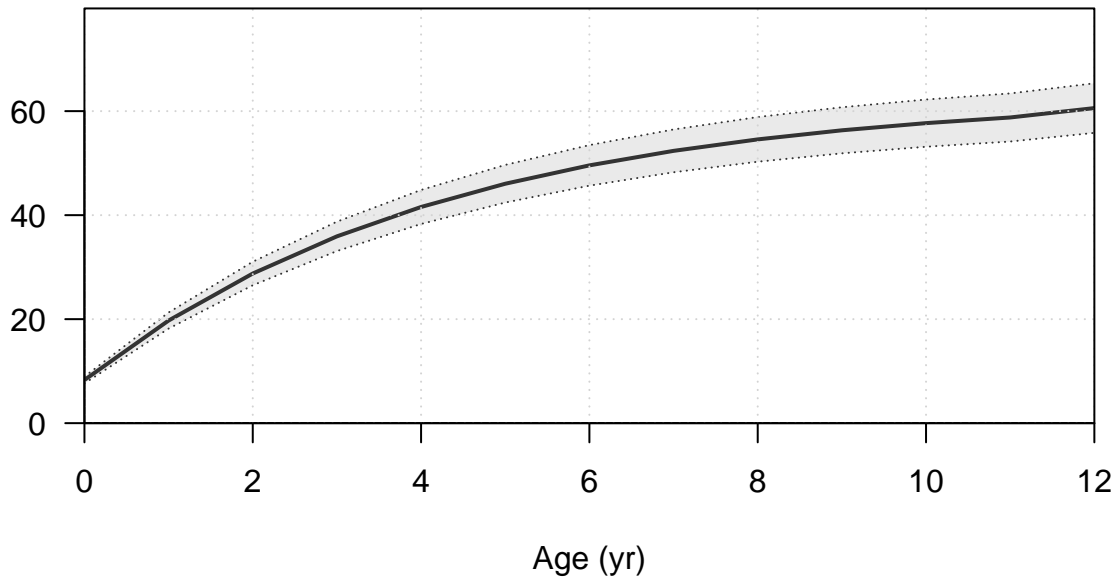
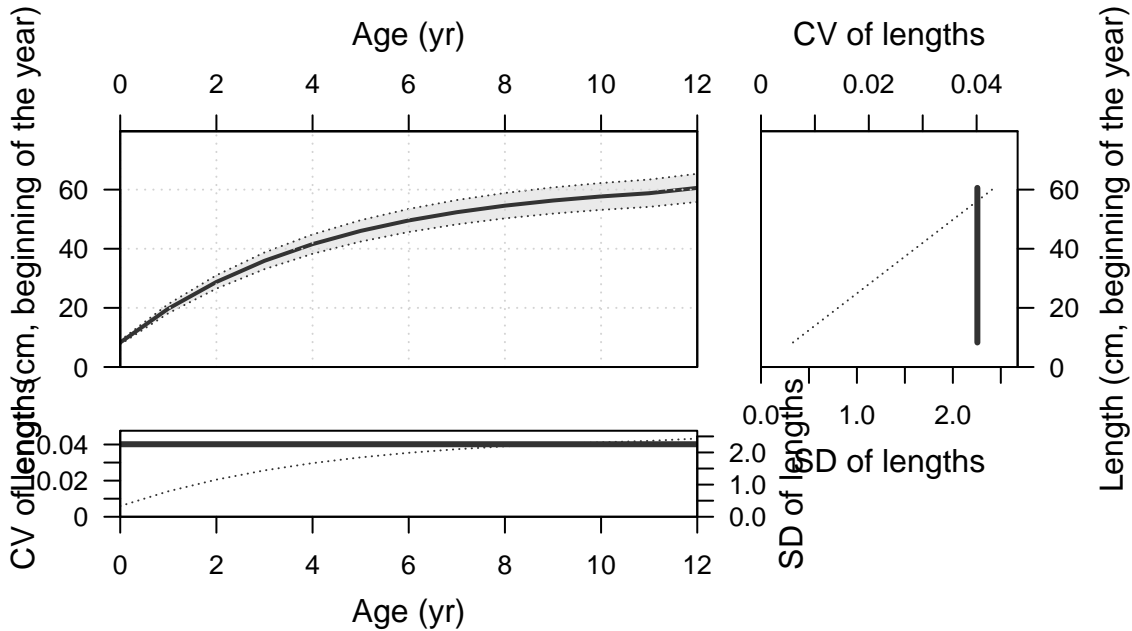
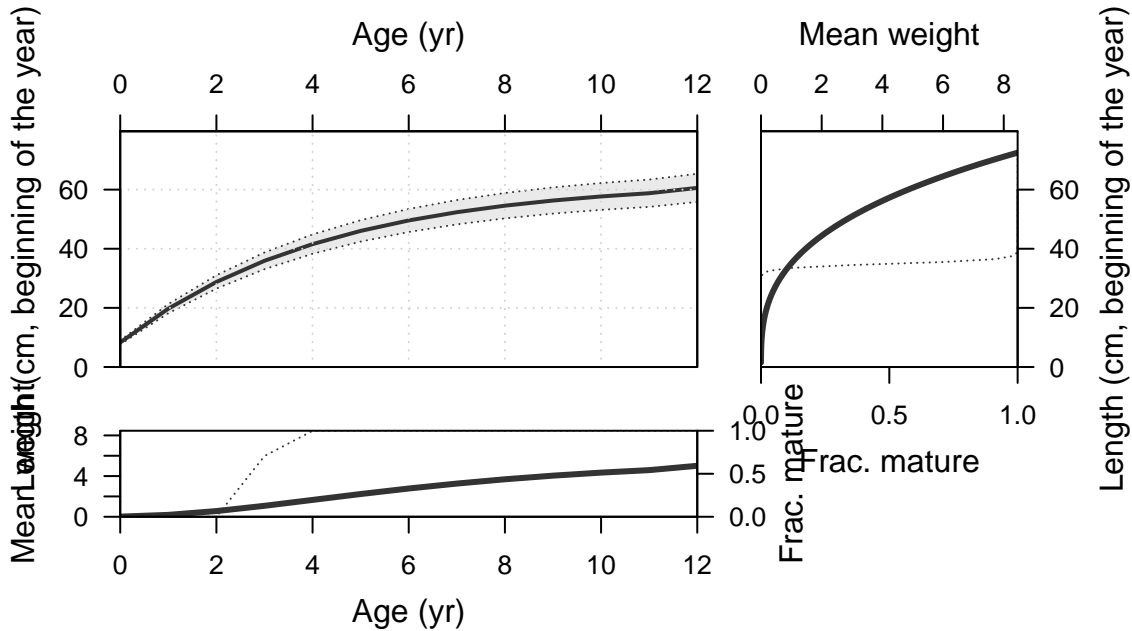


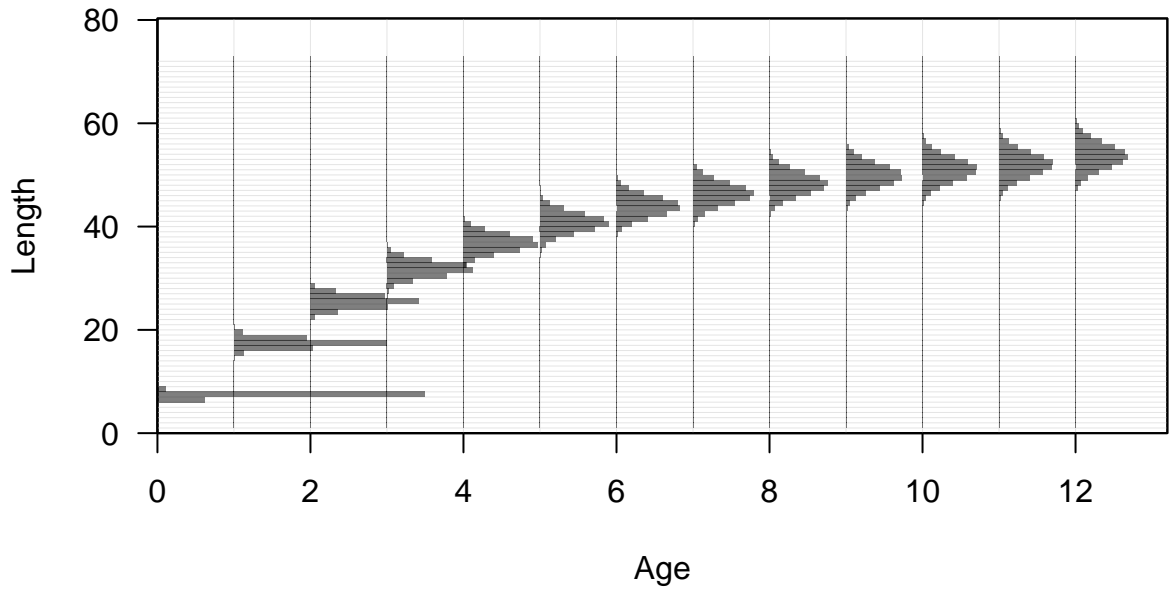
Plots created using the 'r4ss' package in R
Stock Synthesis version: 3.30.19.0
StartTime: Wed Aug 10 16:29:42 2022
Data_File: data.ss
Control_File: control.ss

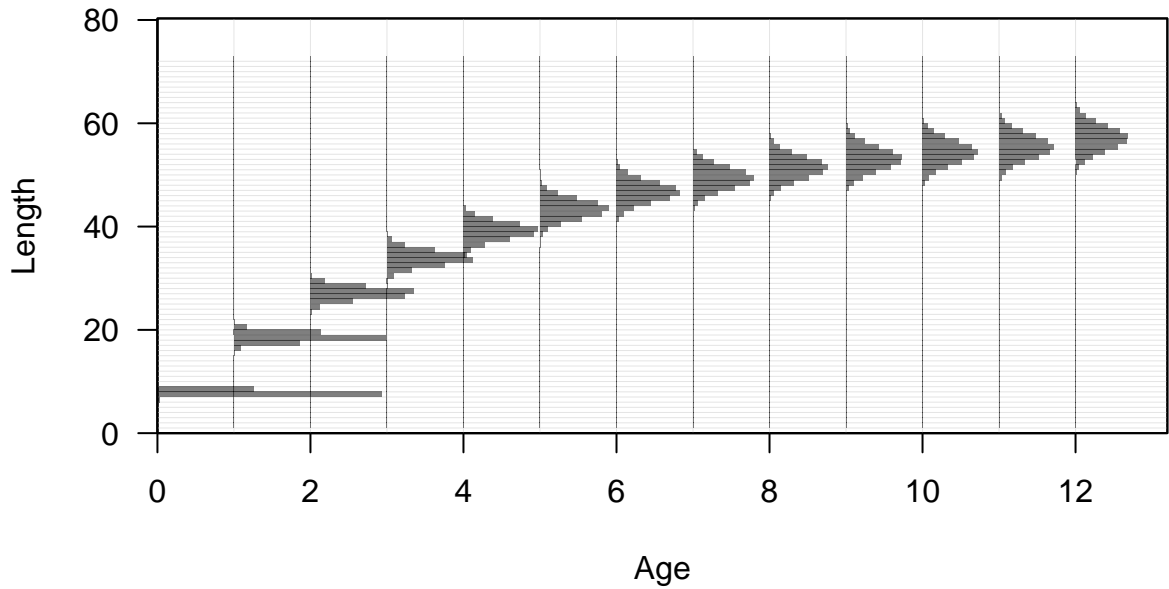
Length (cm, beginning of the year)

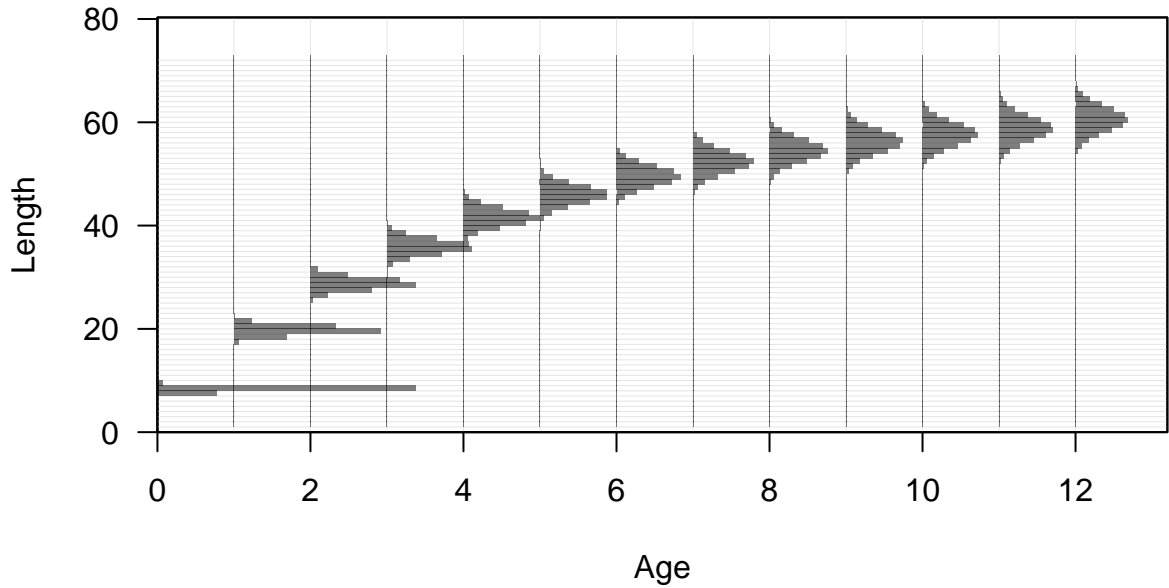


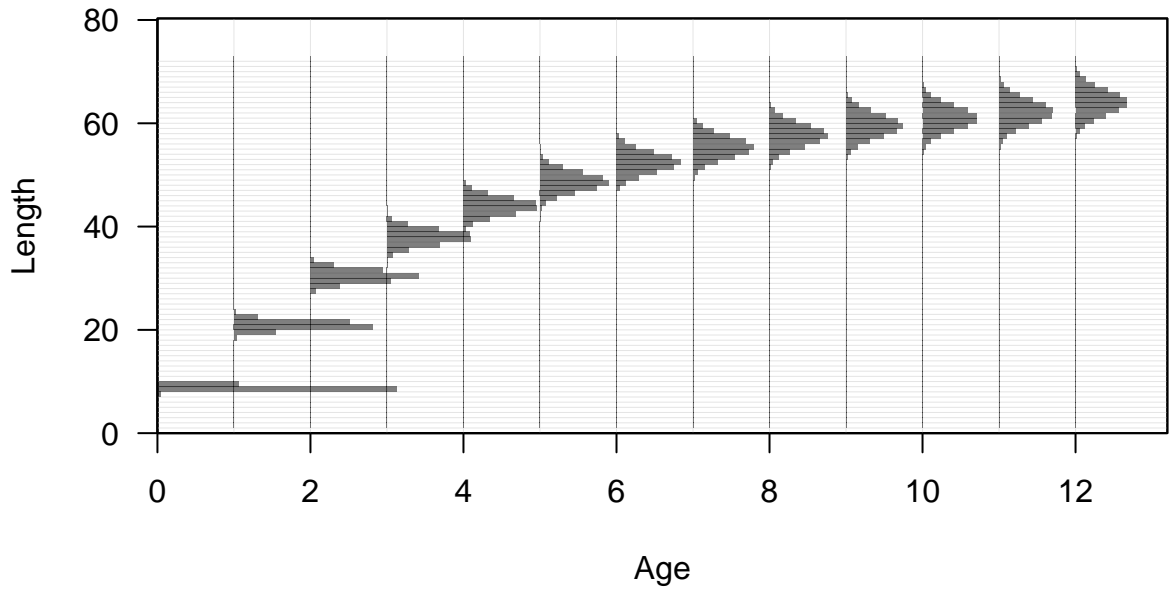


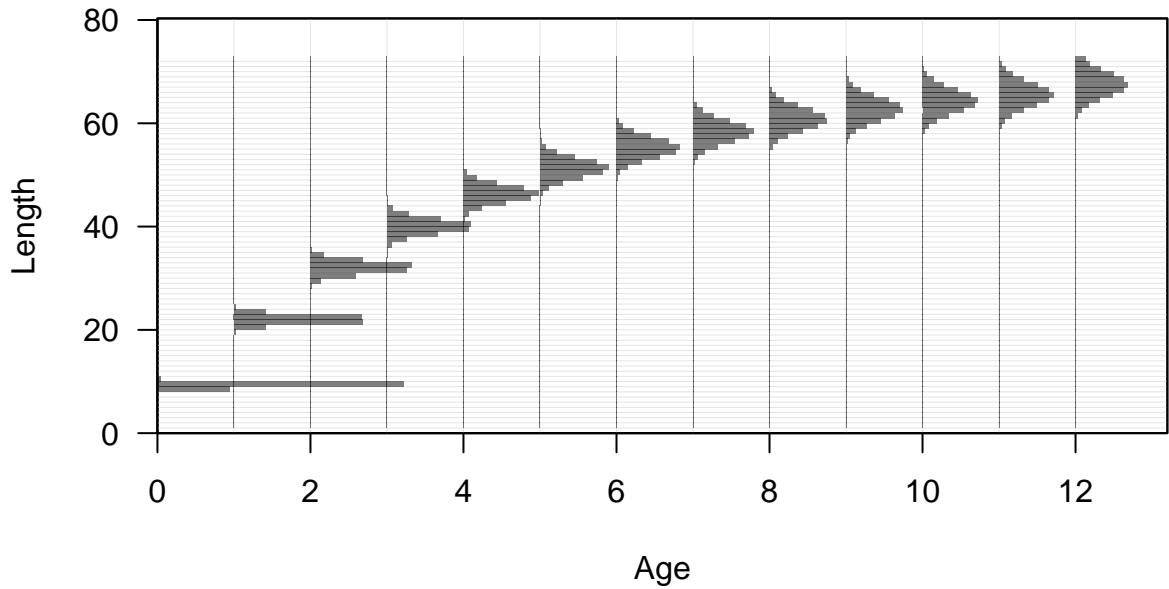


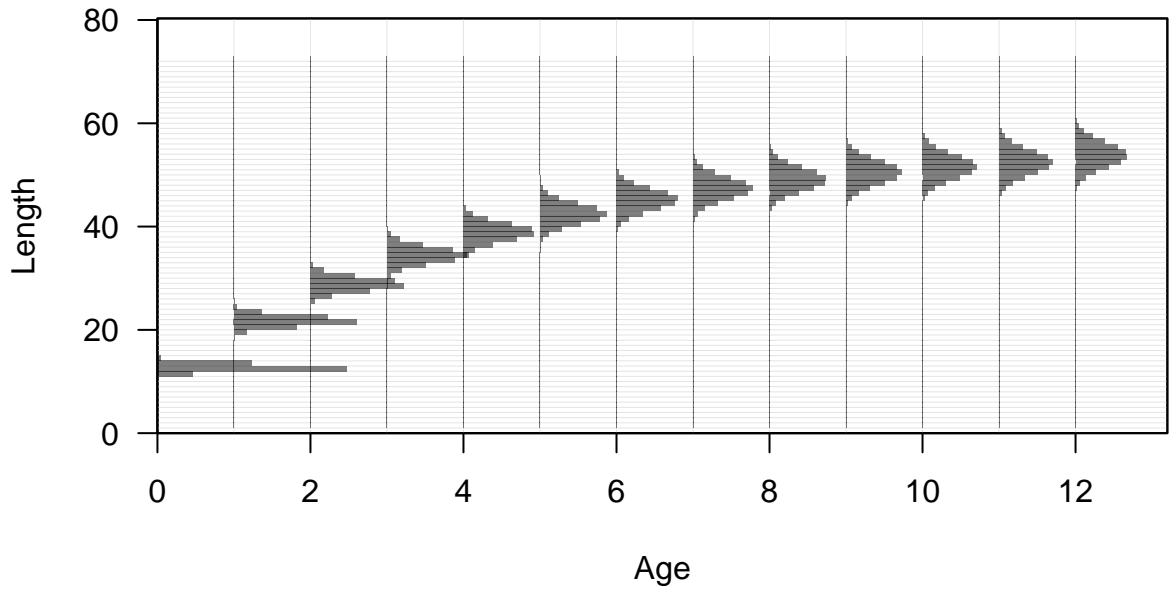


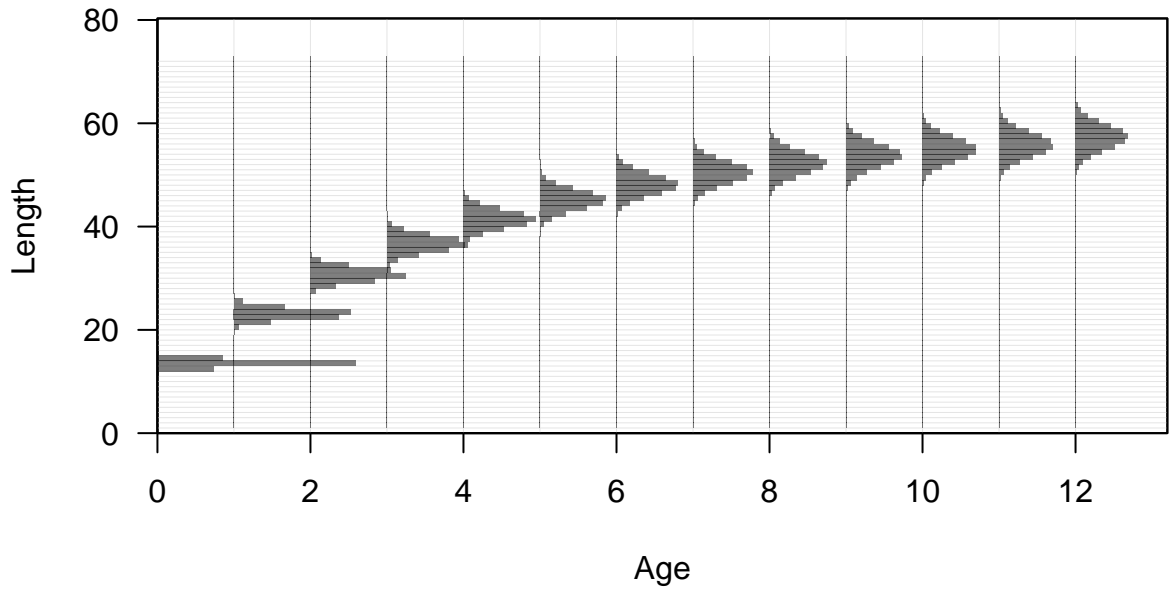


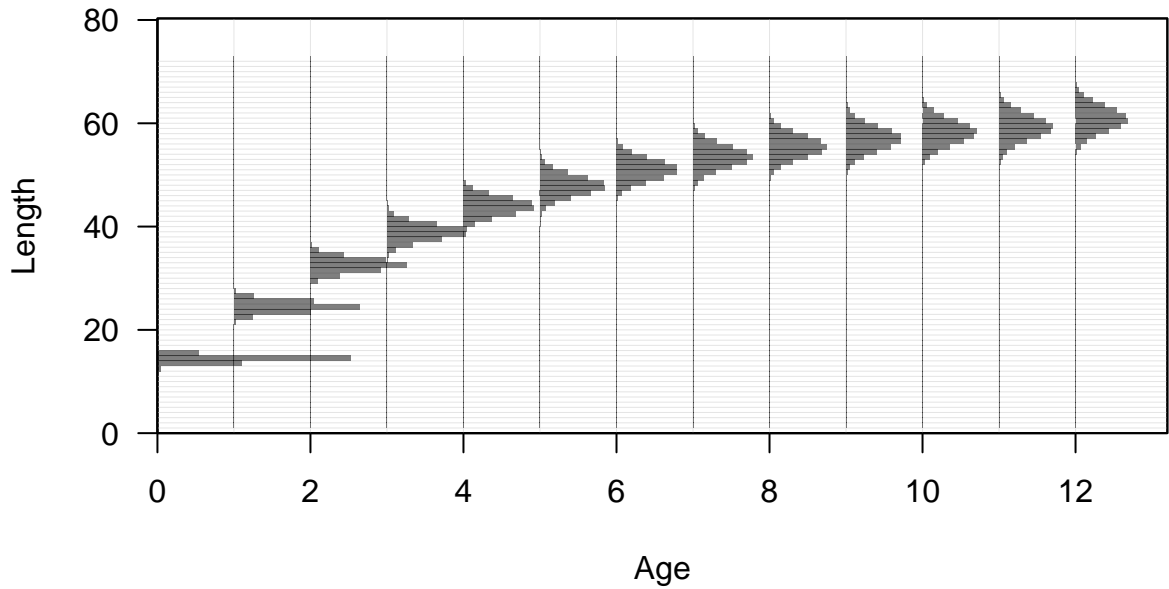


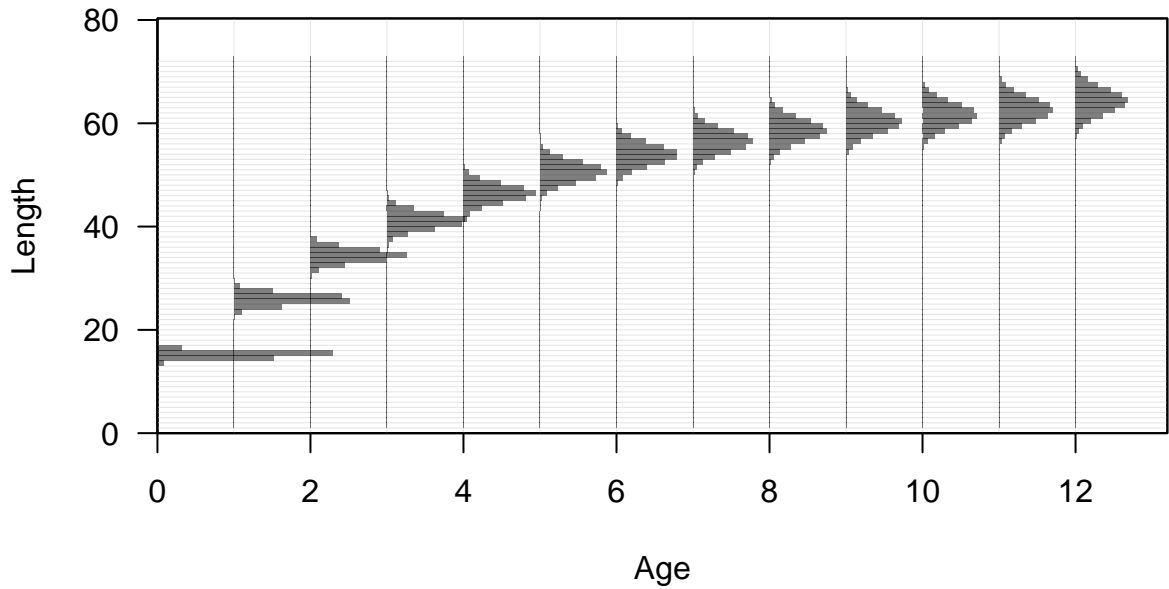


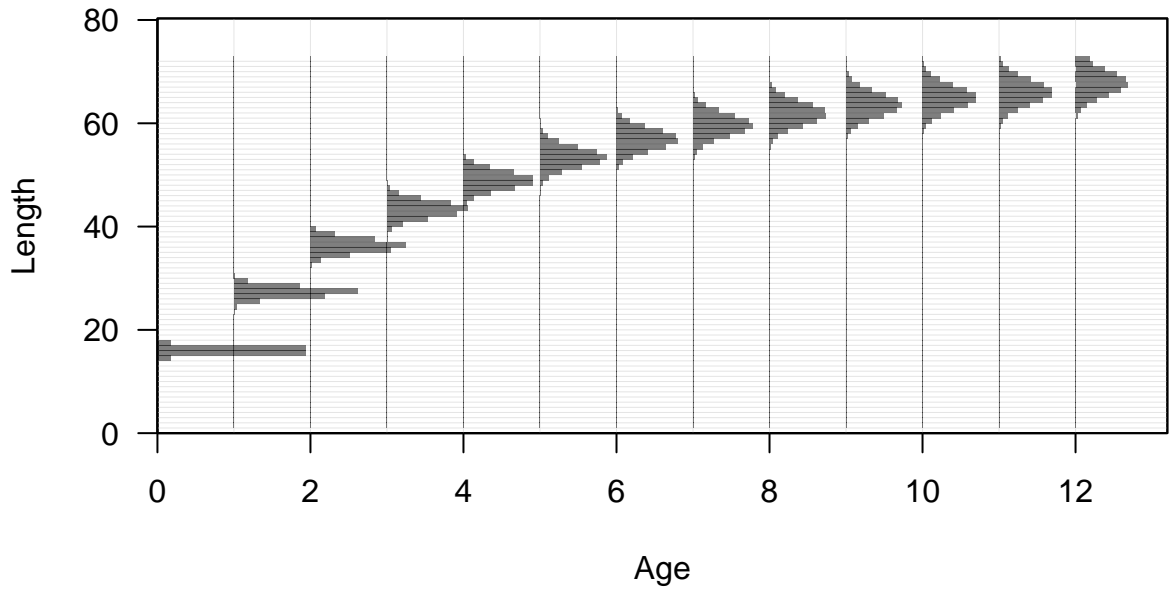




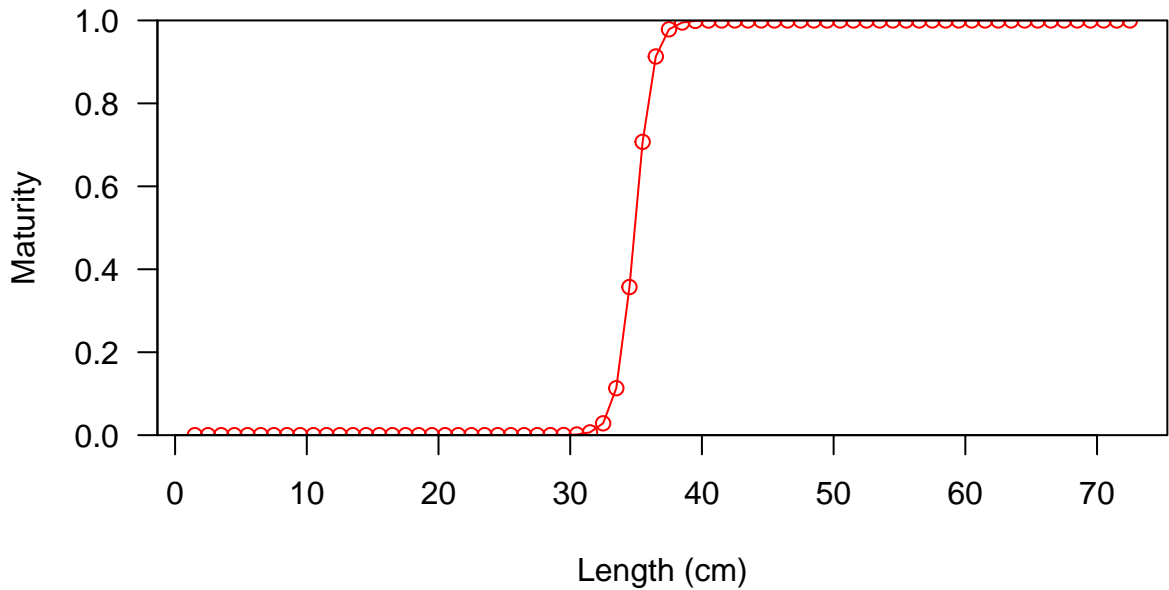






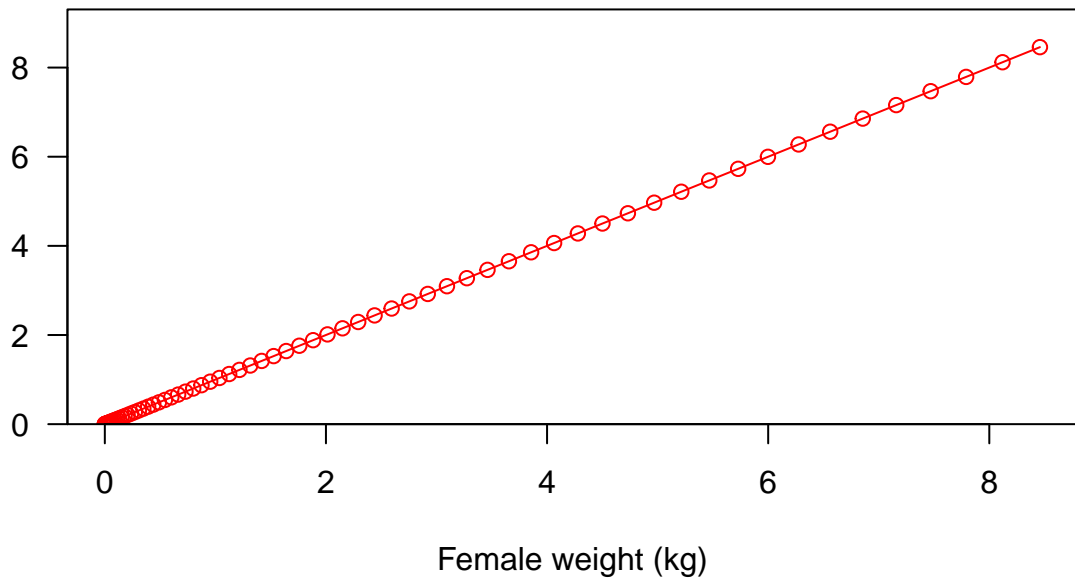








Fecundity



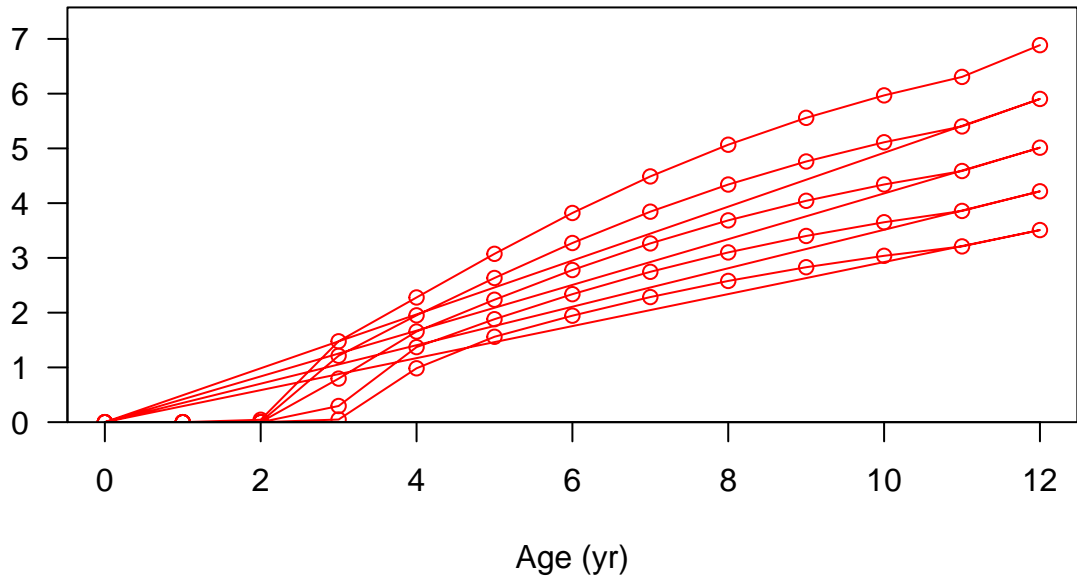
Fecundity



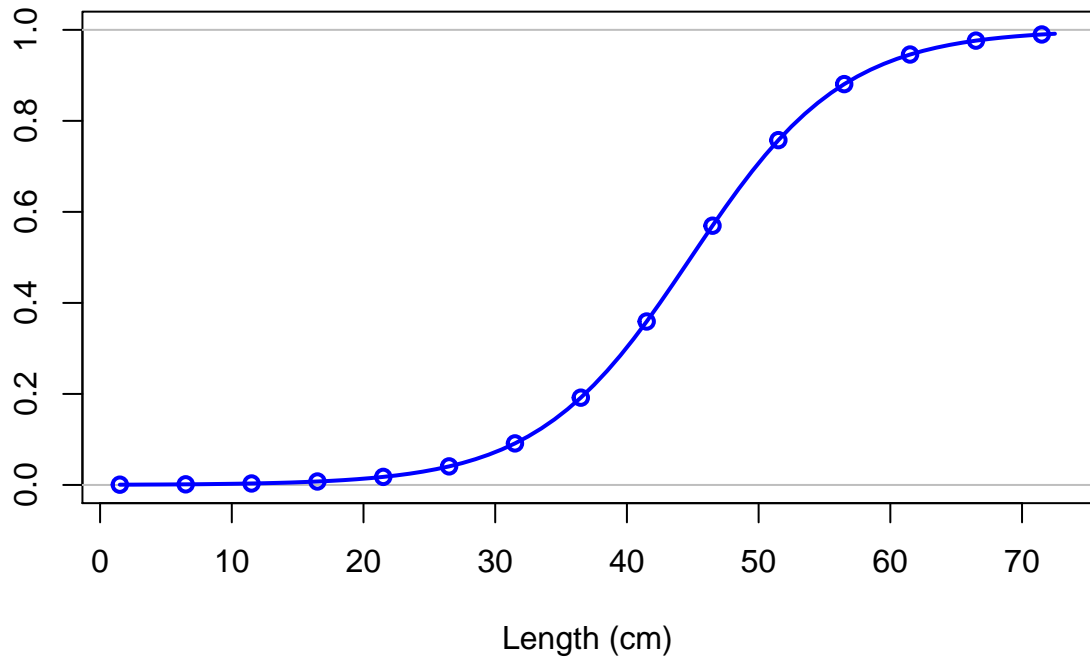
Spawning output



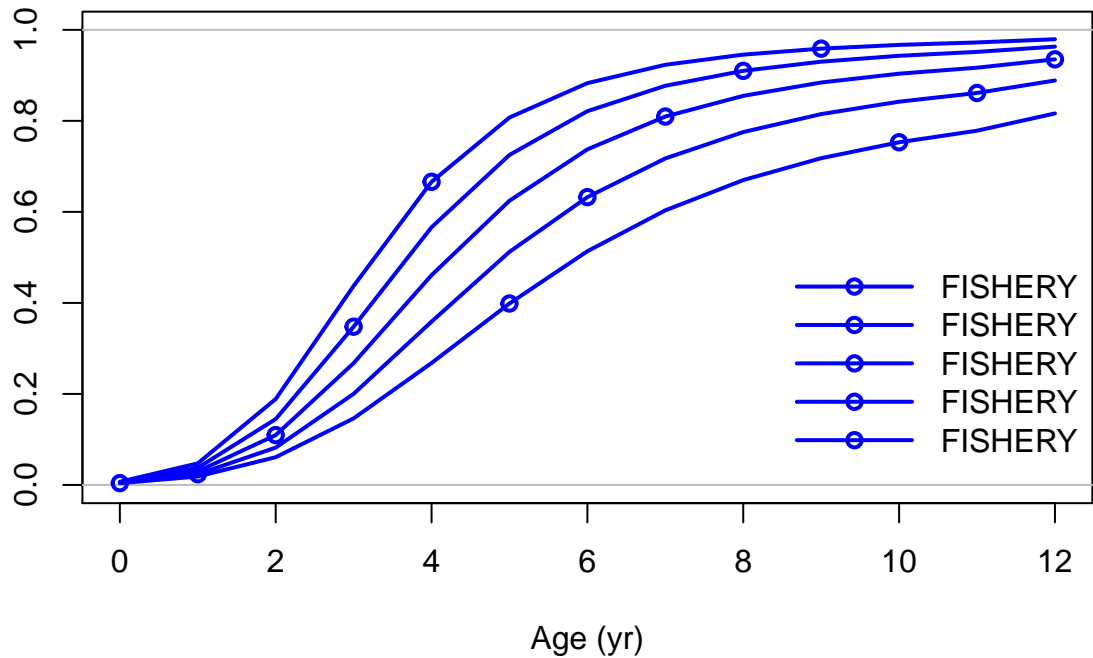
Spawning output



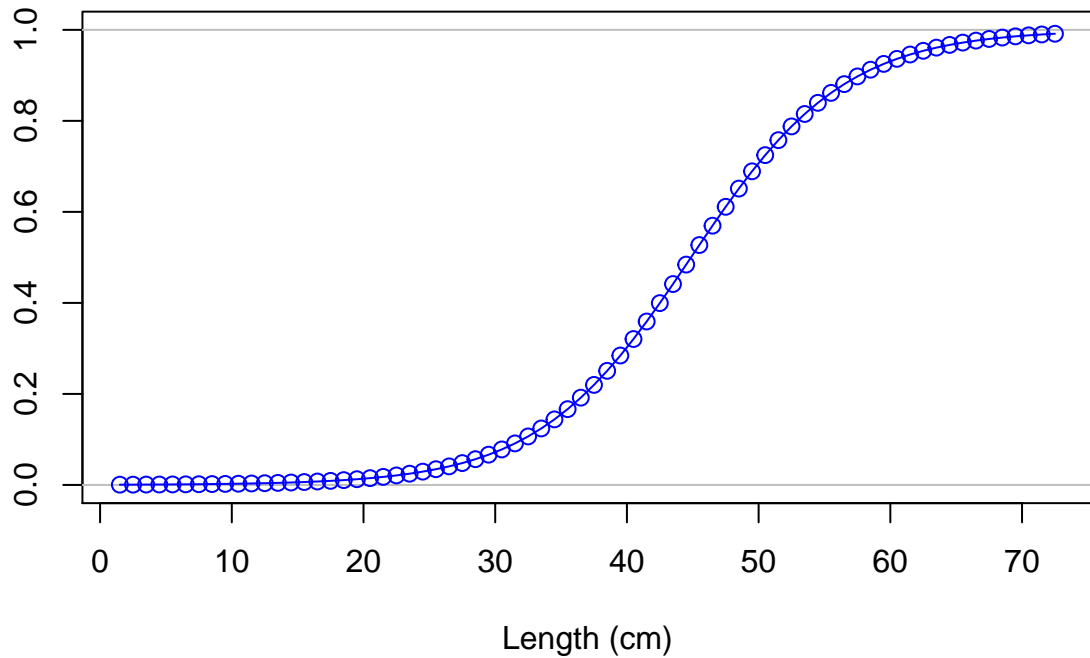
Selectivity

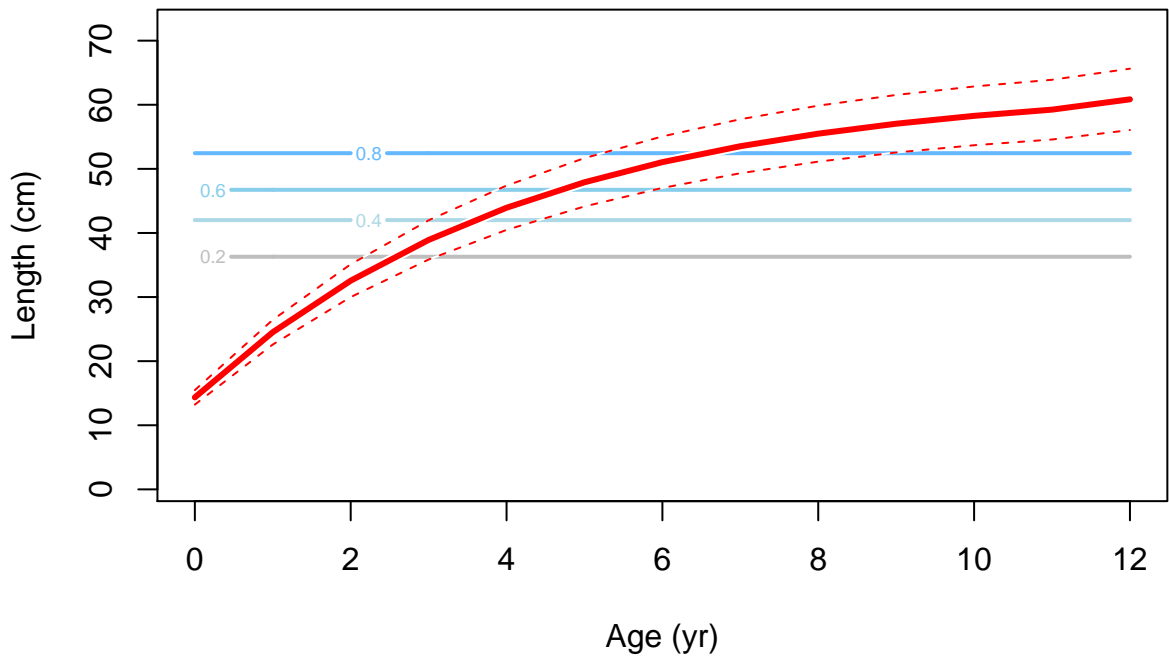


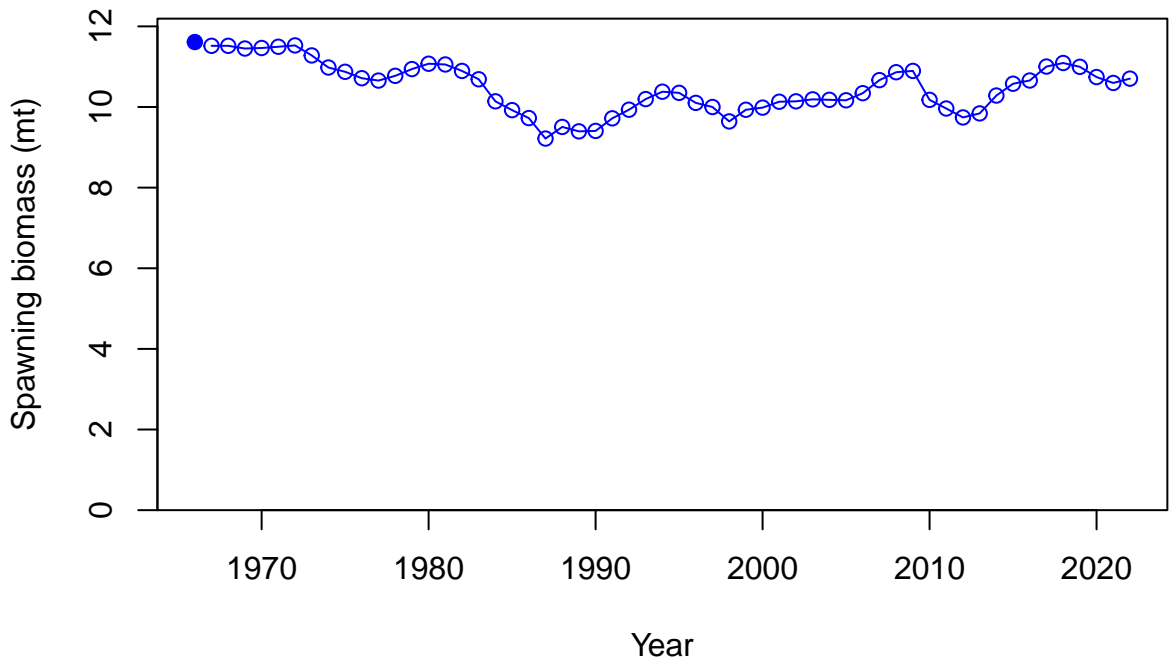
Selectivity

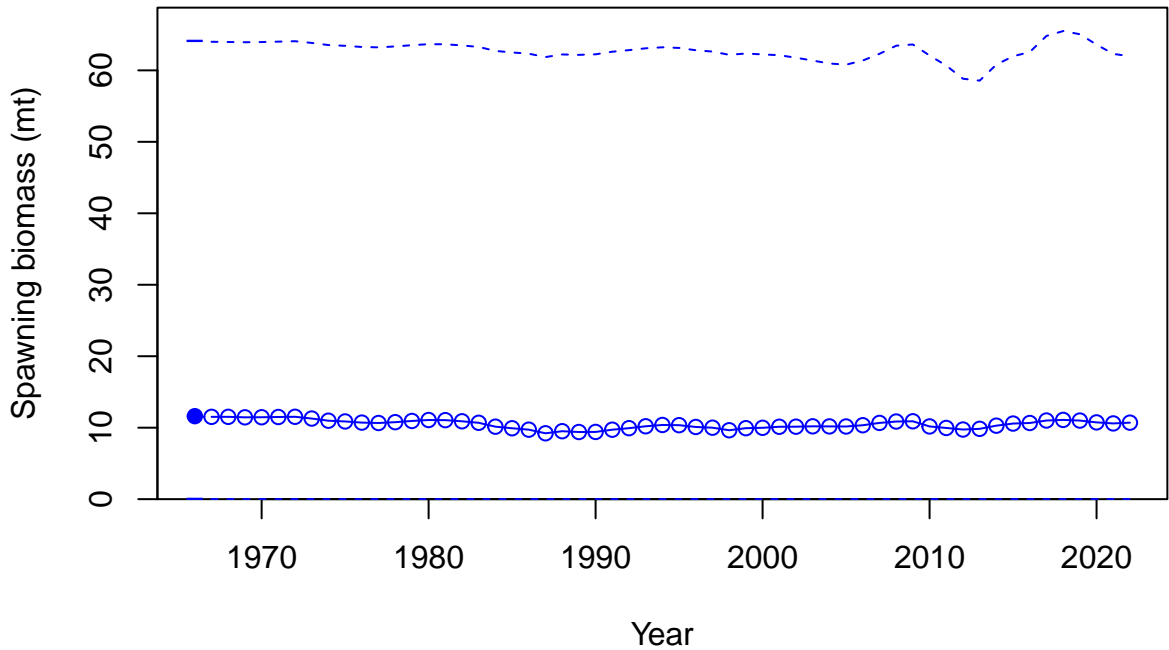


Selectivity

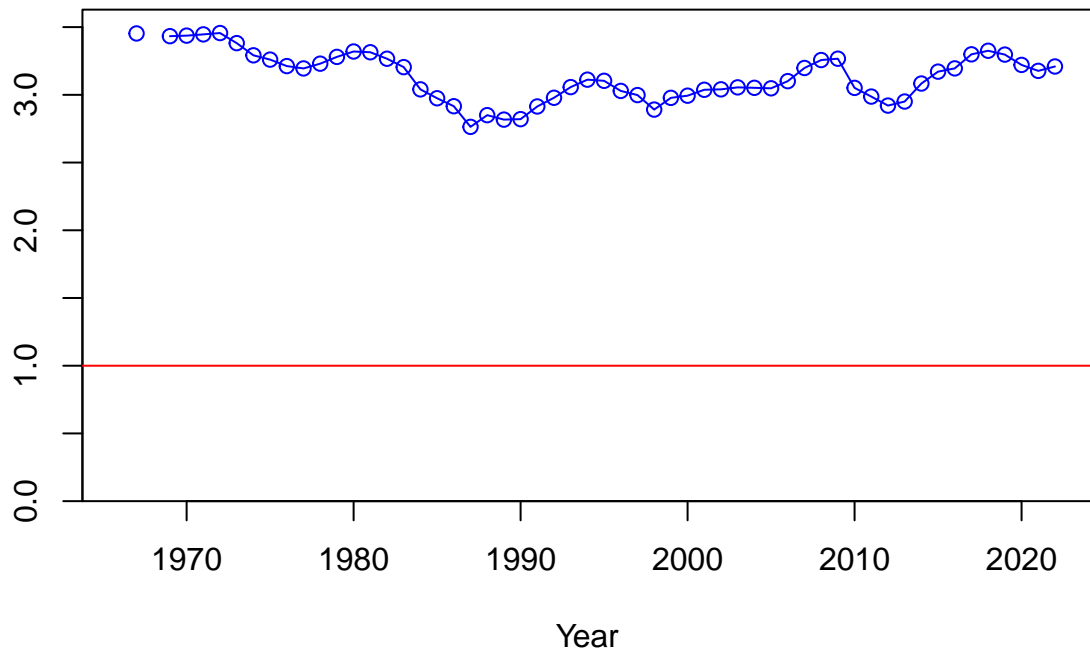




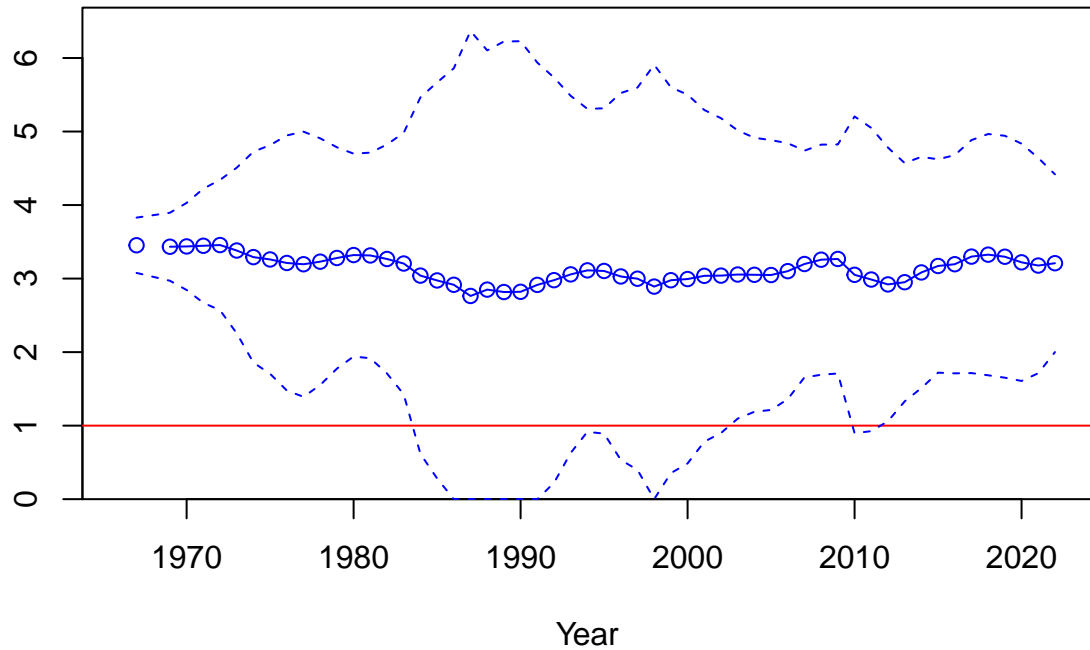


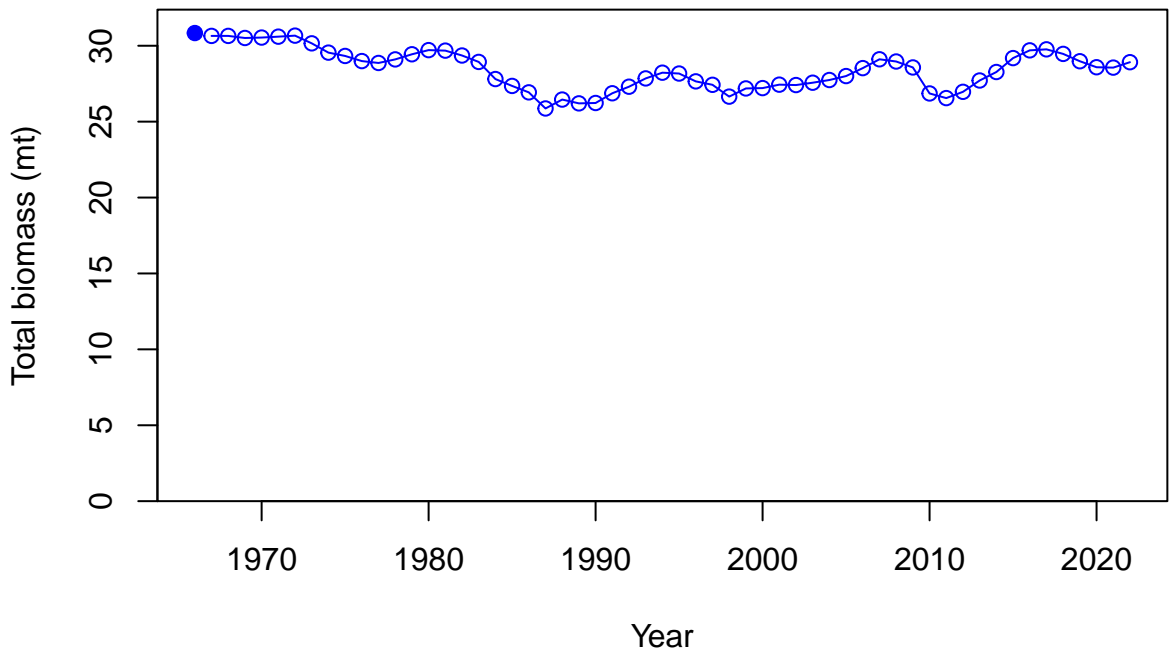


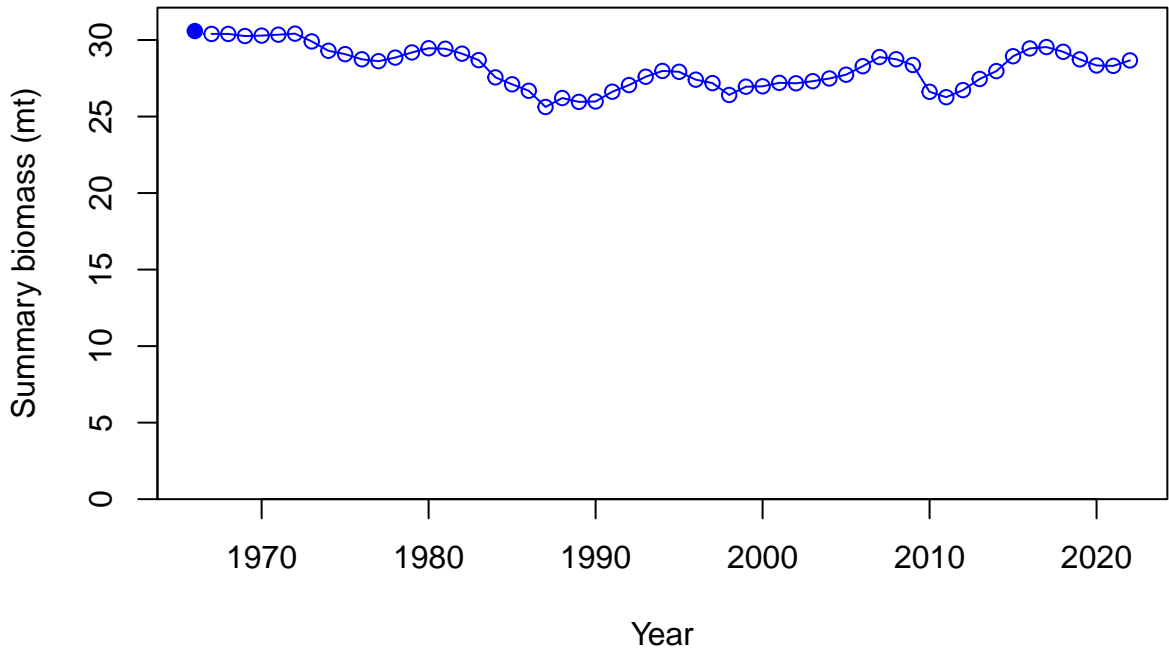
Relative spawning biomass: B/B_{MSY}



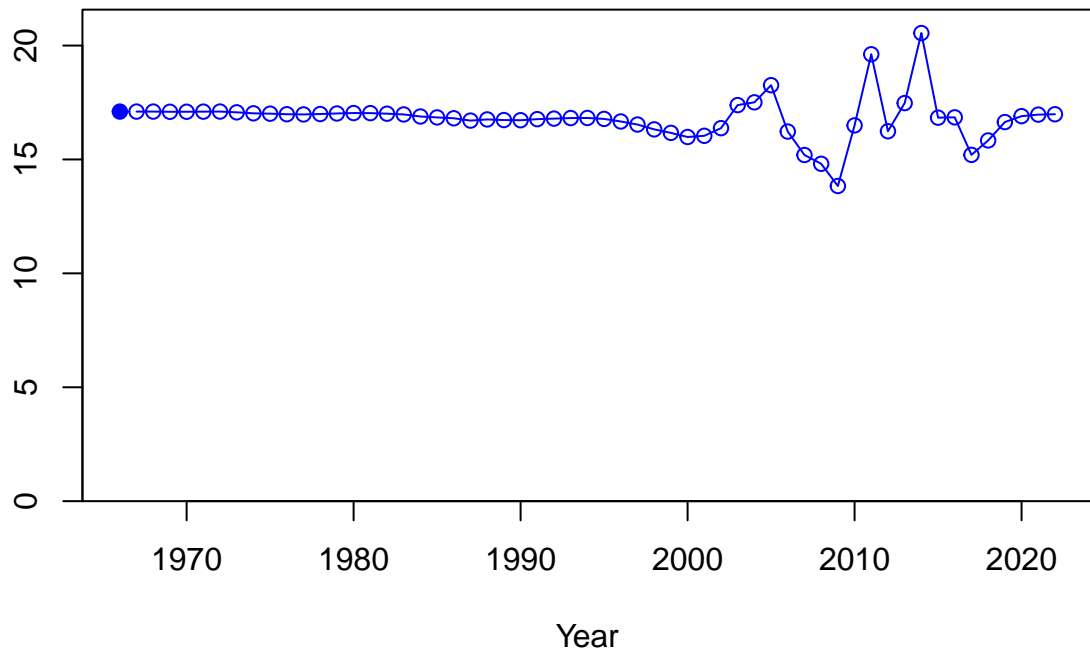
Relative spawning biomass: B/B_{MSY}

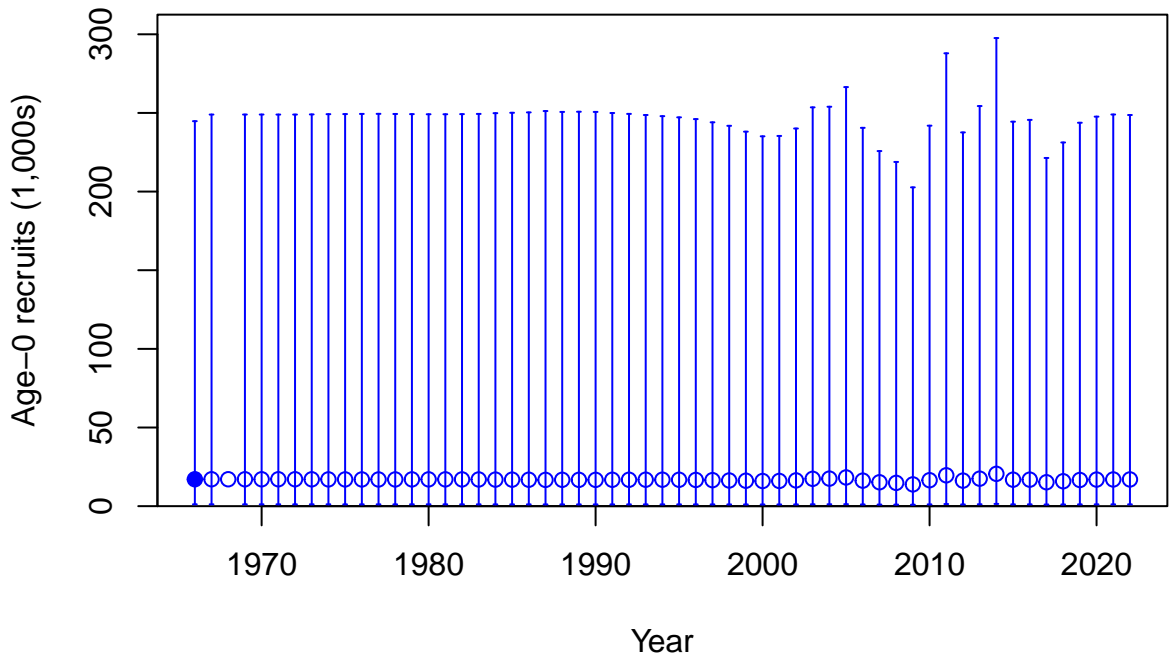




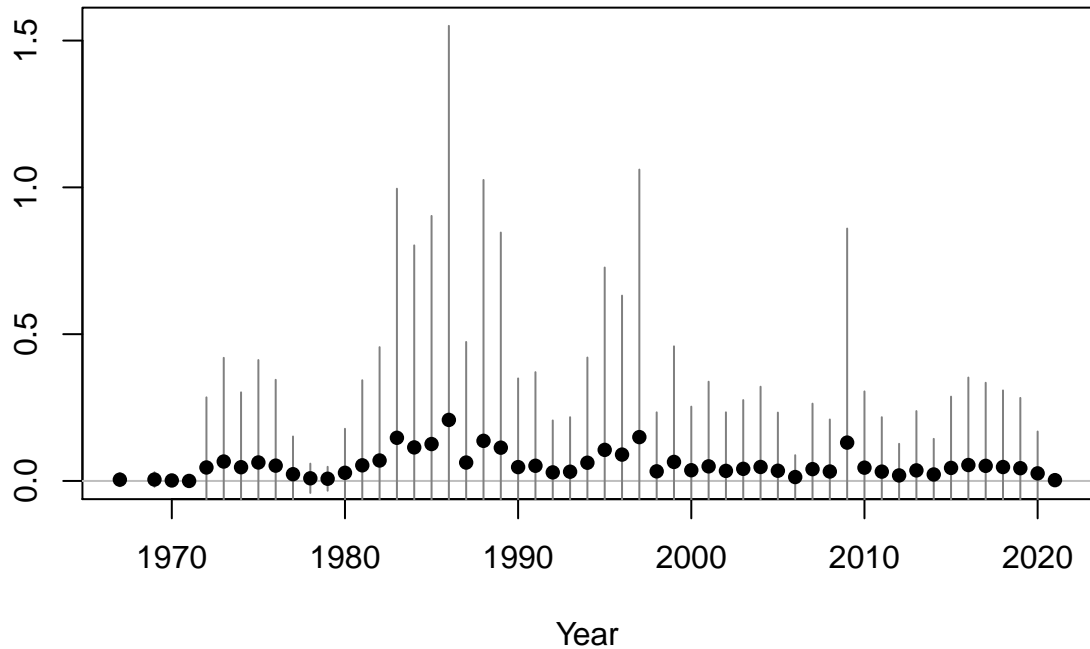


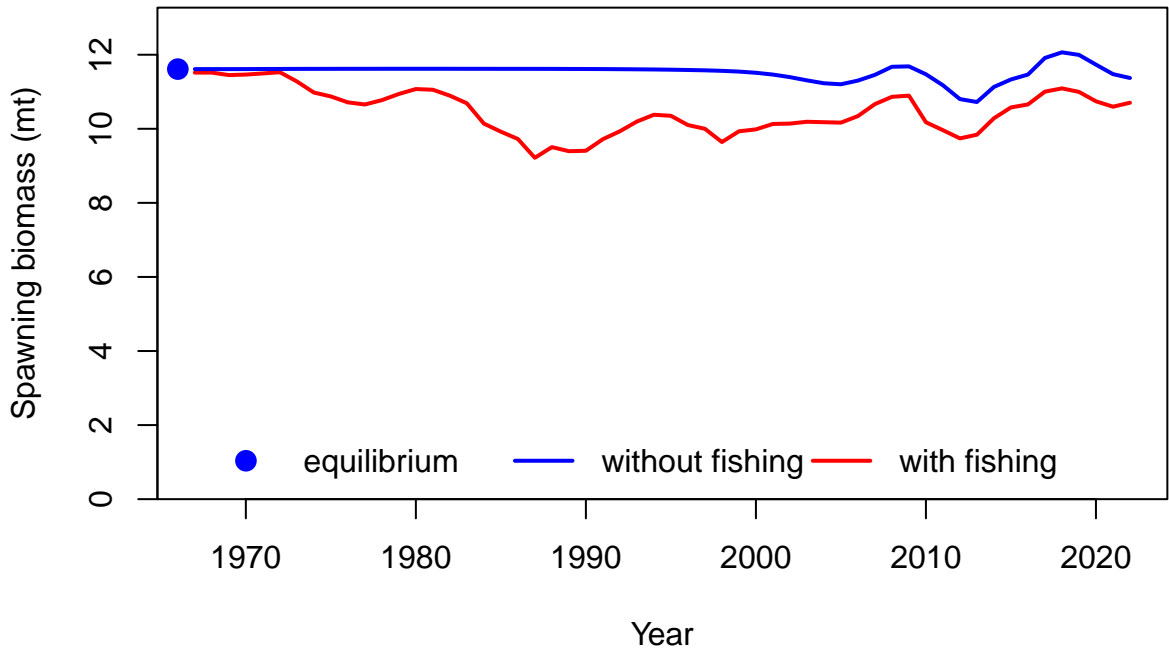
Age-0 recruits (1,000s)





Summary Fishing Mortality





Log recruitment deviation

0.2
0.1
0.0
-0.1

1970

1980

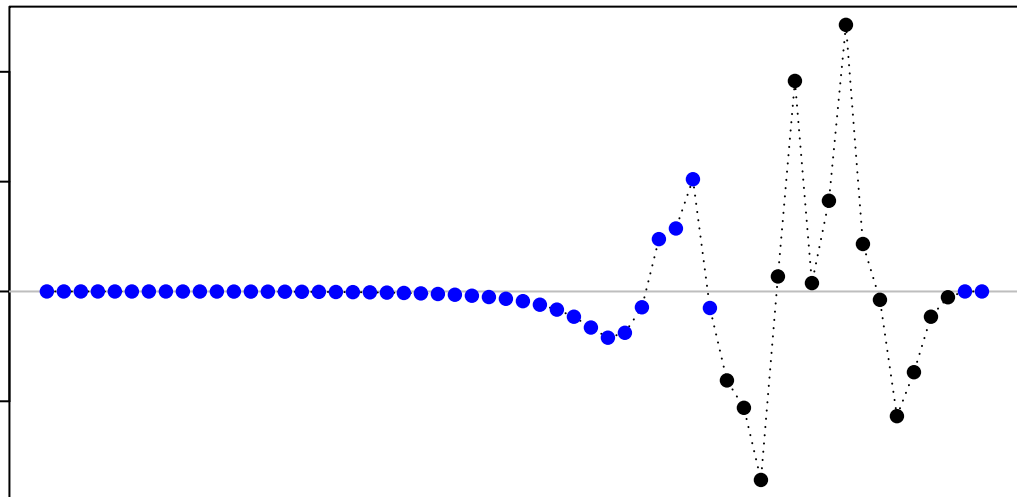
1990

2000

2010

2020

Year



Log recruitment deviation

0.5
0.0
-0.5

1970

1980

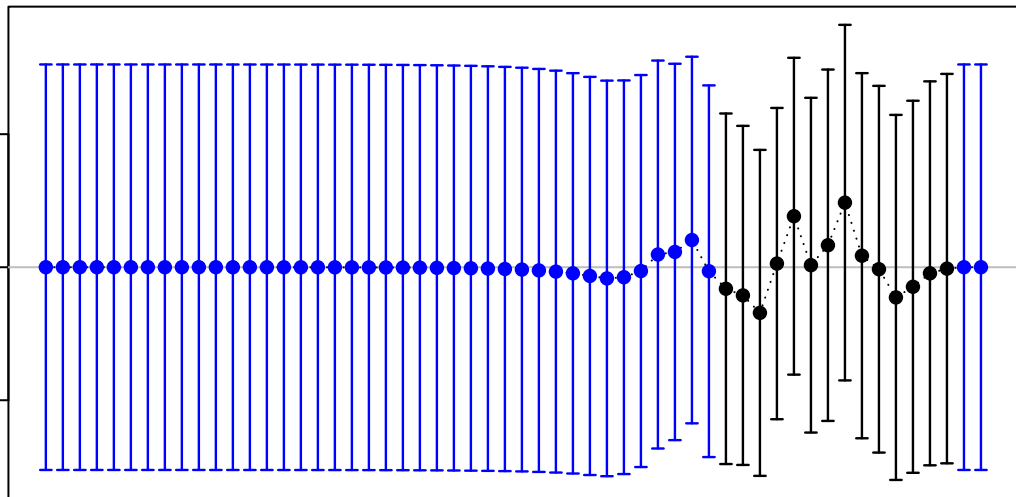
1990

2000

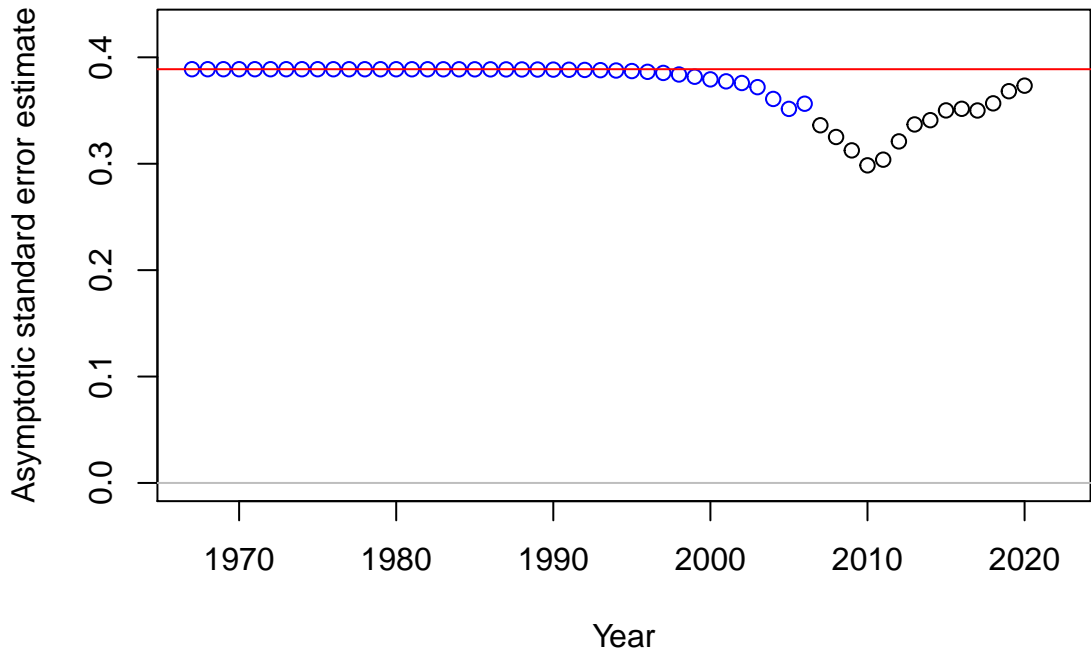
2010

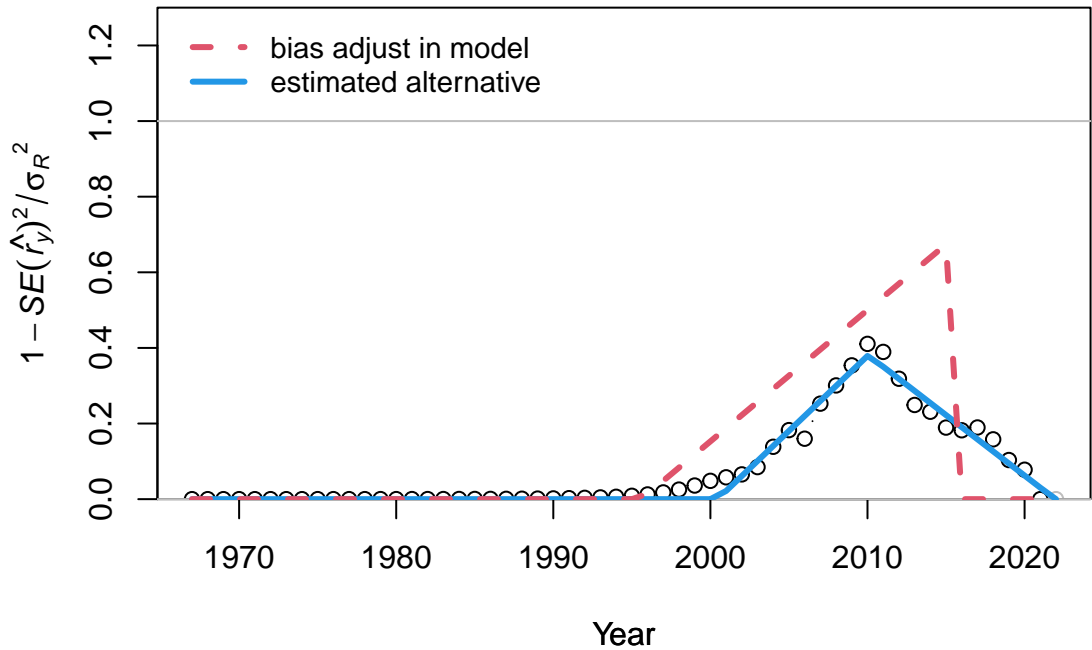
2020

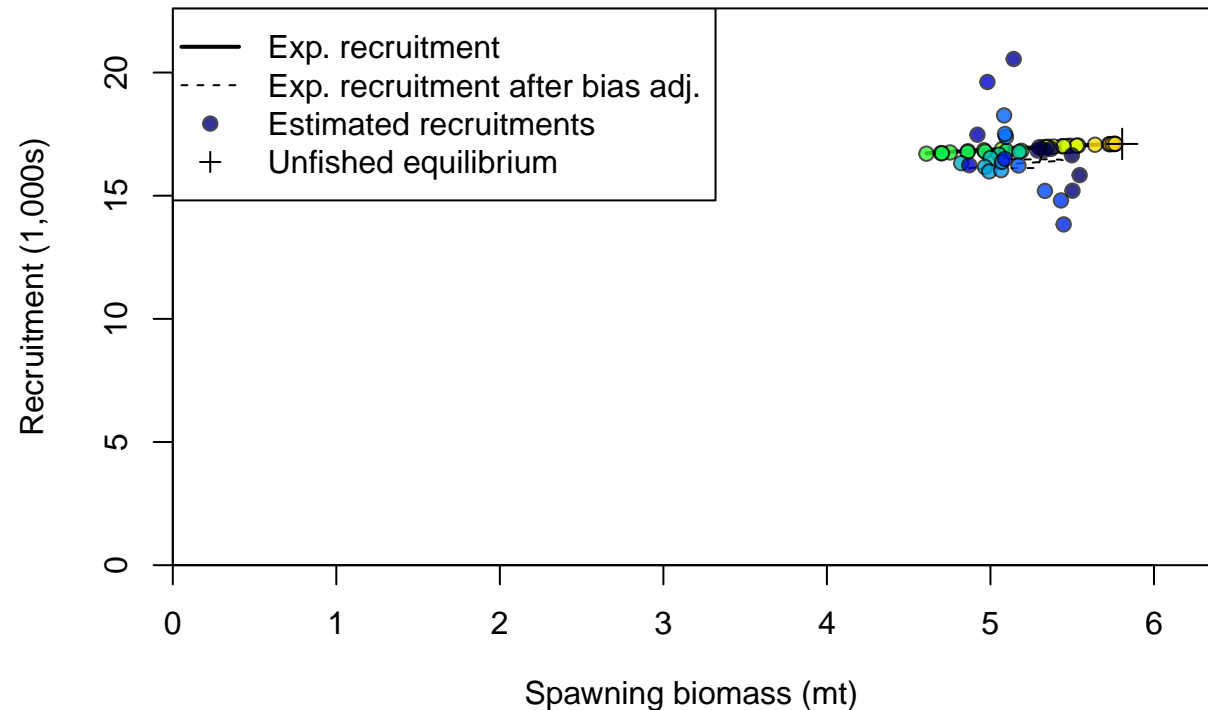
Year

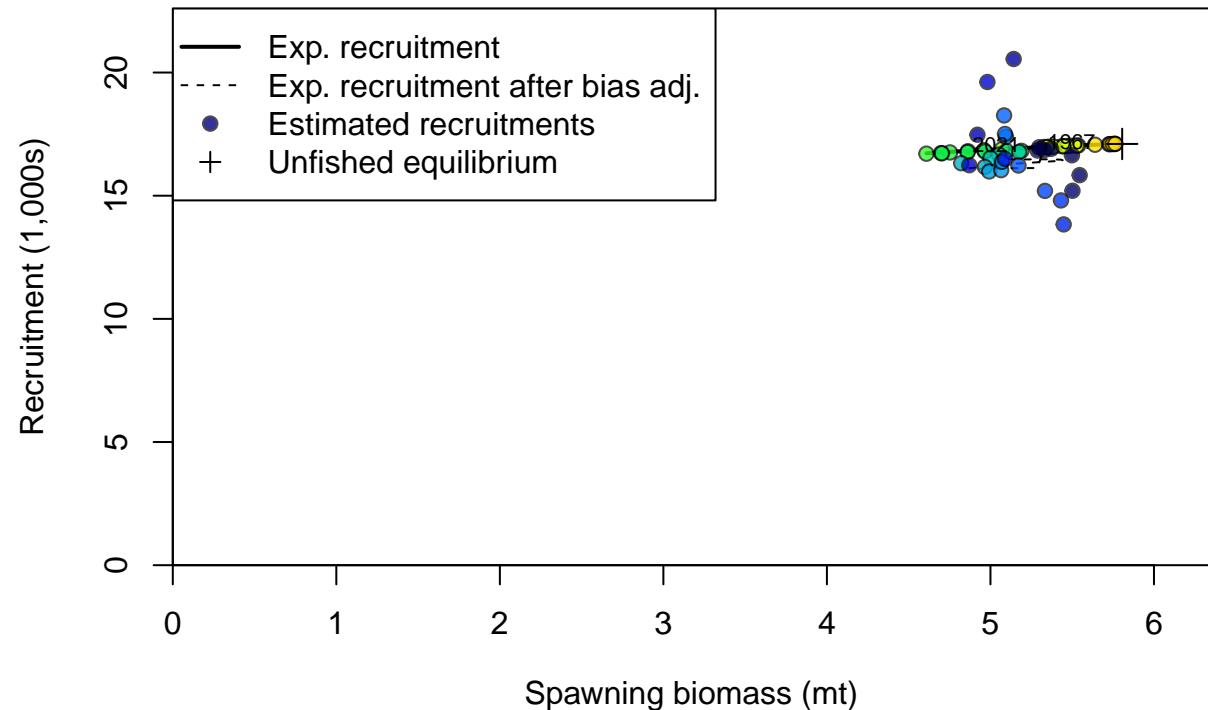


Recruitment deviation variance









Log recruitment deviation

0.2
0.1
0.0
-0.1
-0.2

0.0

0.2

0.4

0.6

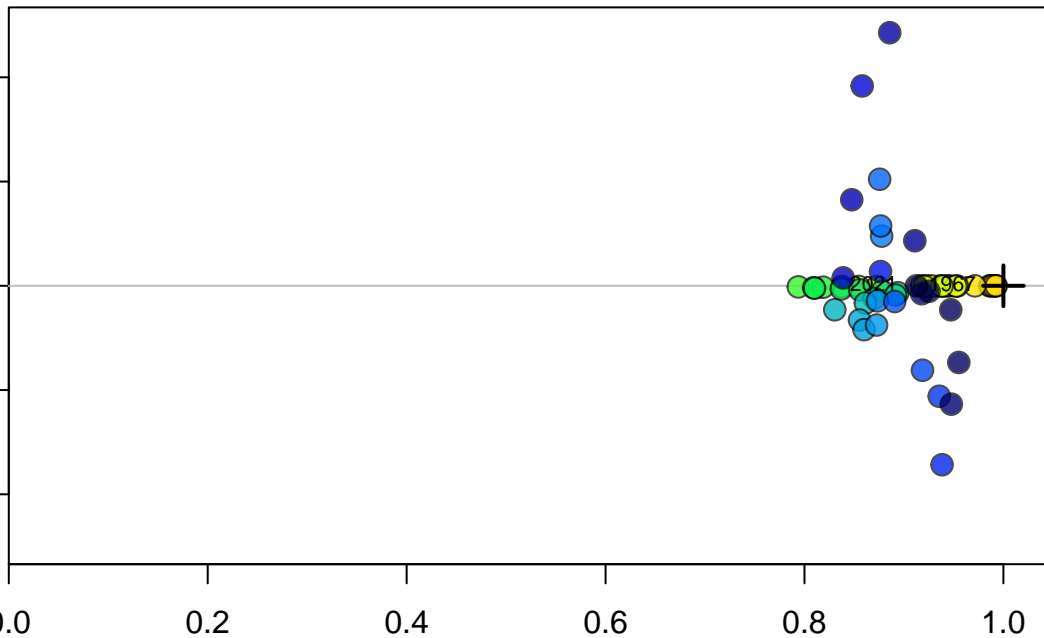
0.8

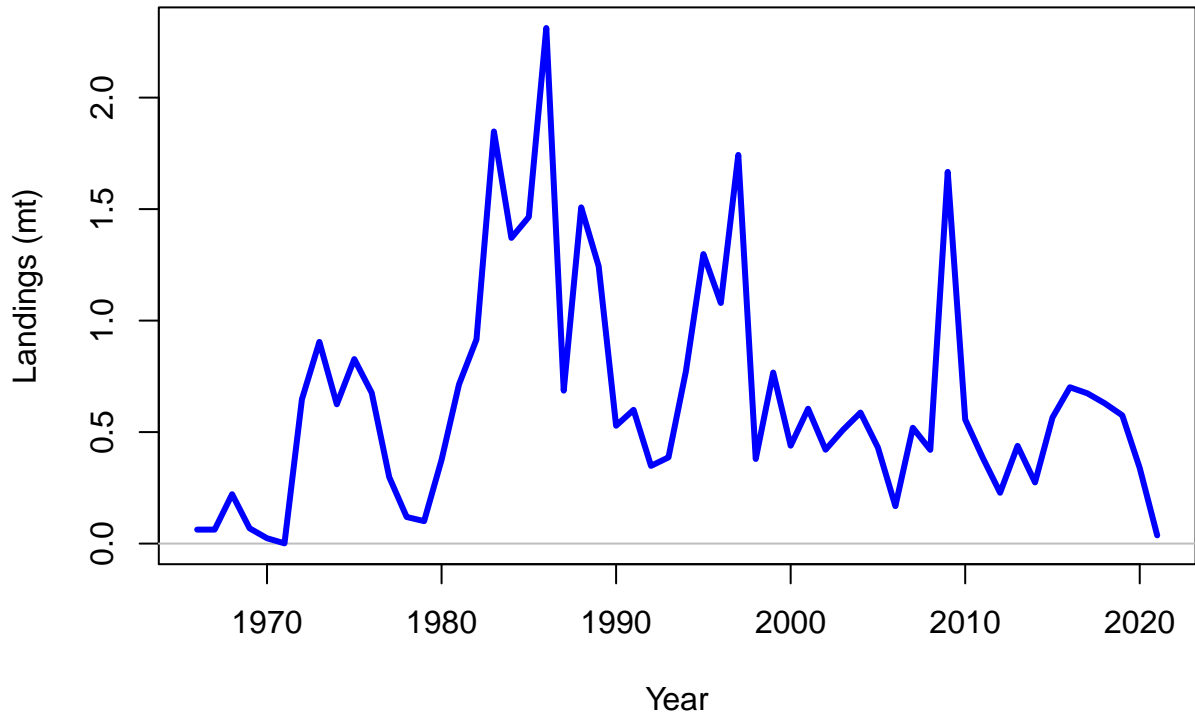
1.0

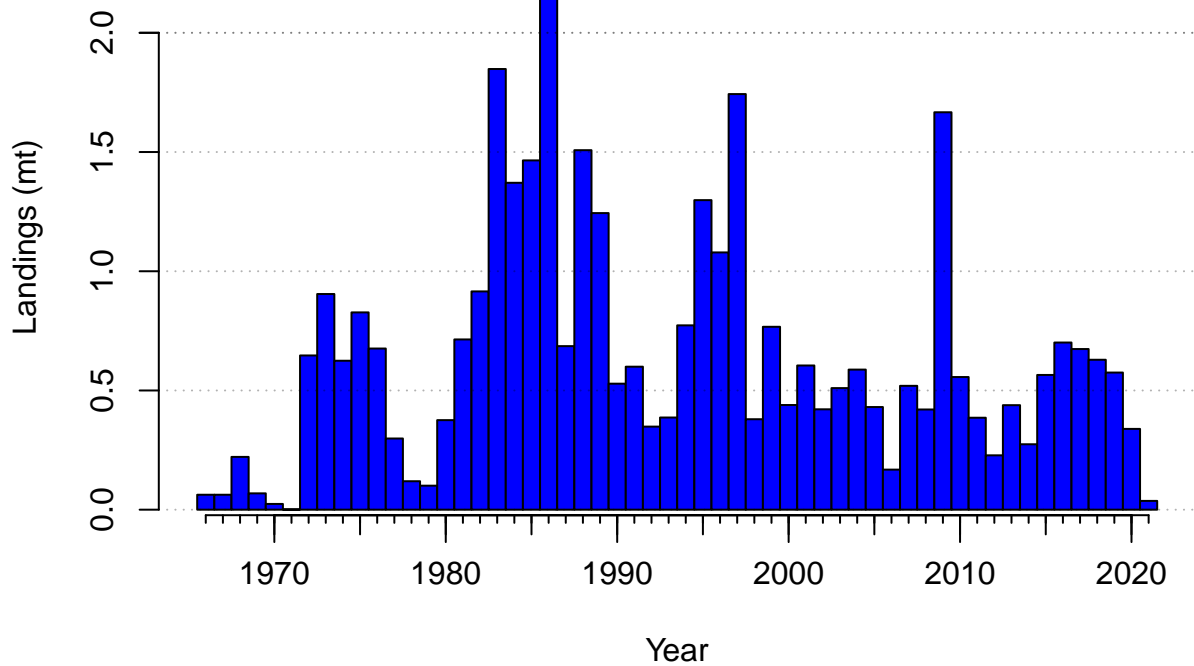
Spawning output (relative to B_0)

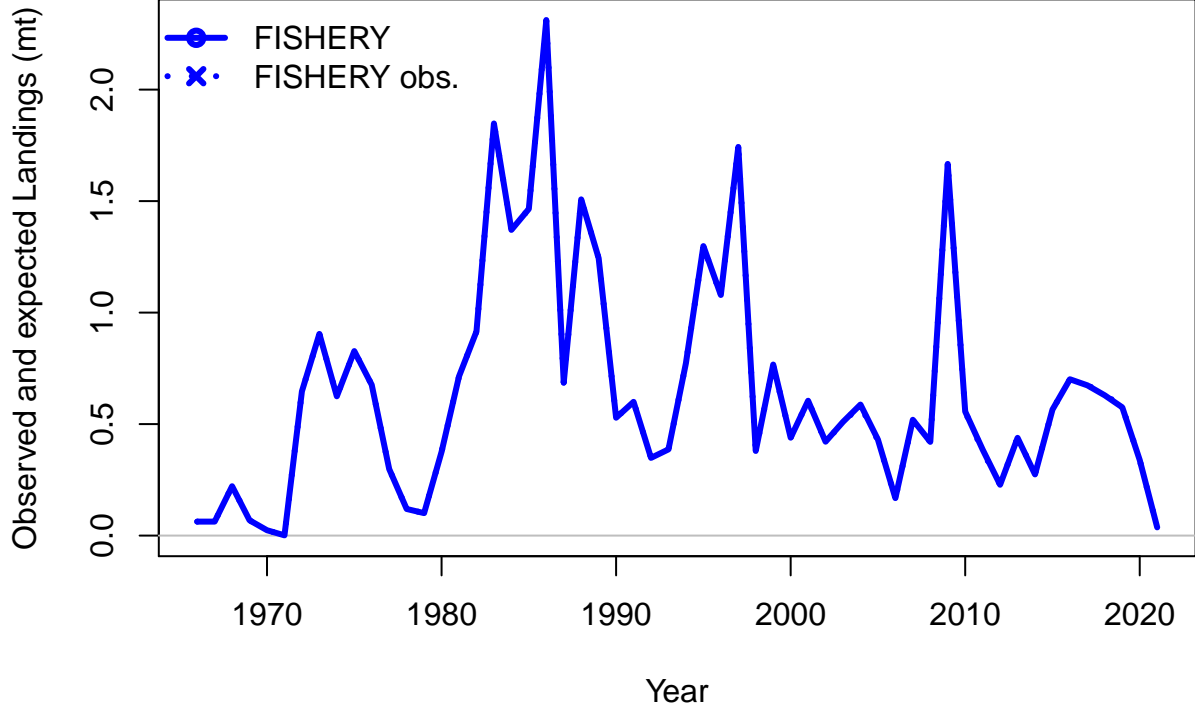
2021

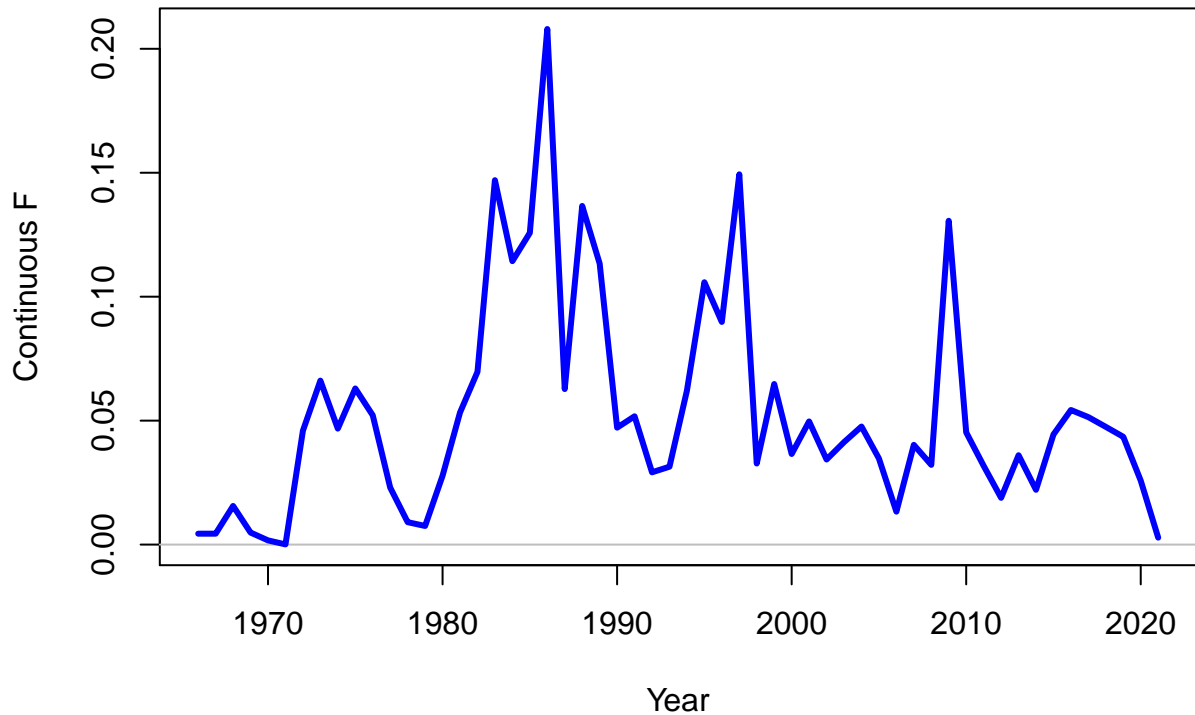
1967



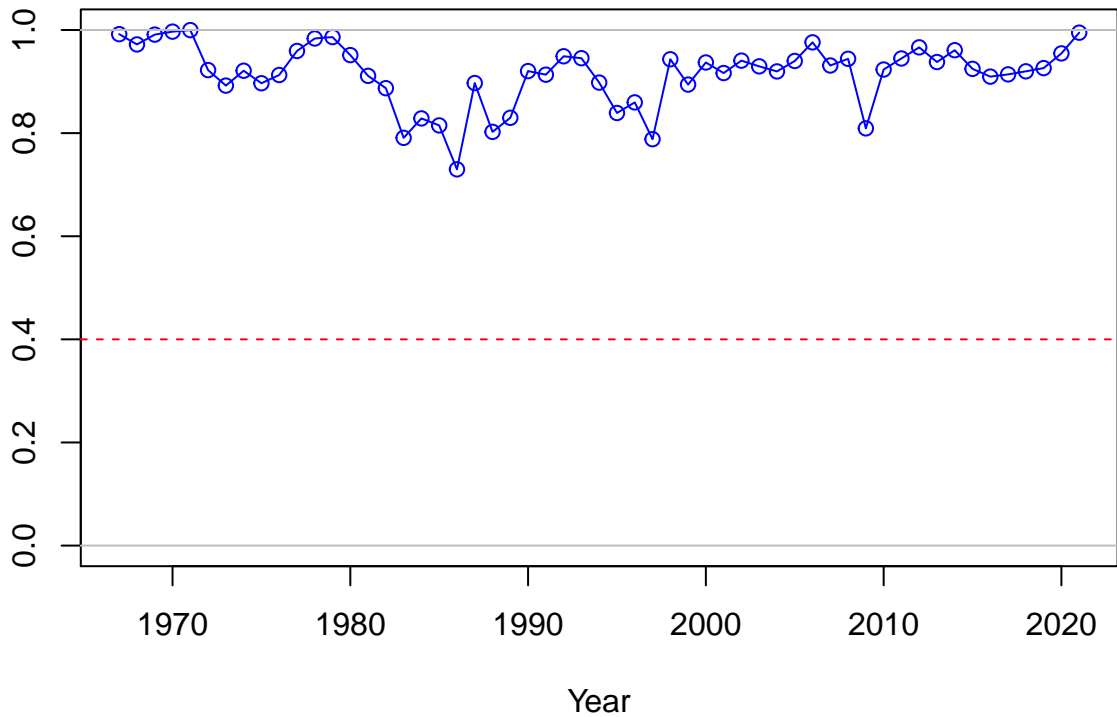




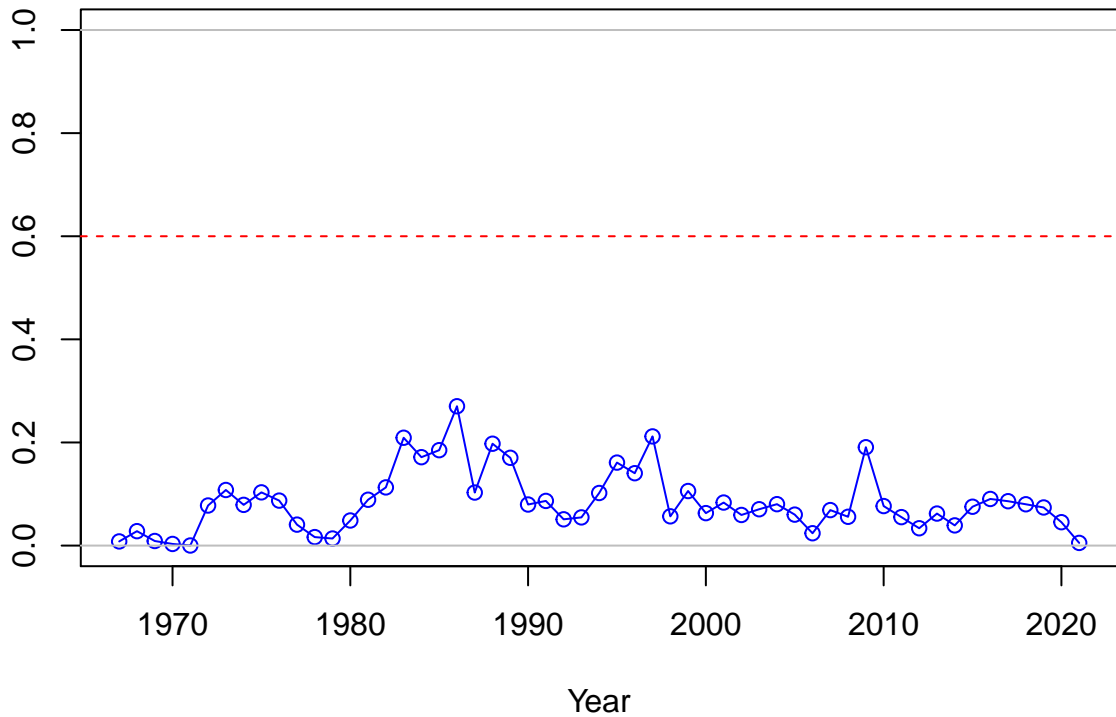




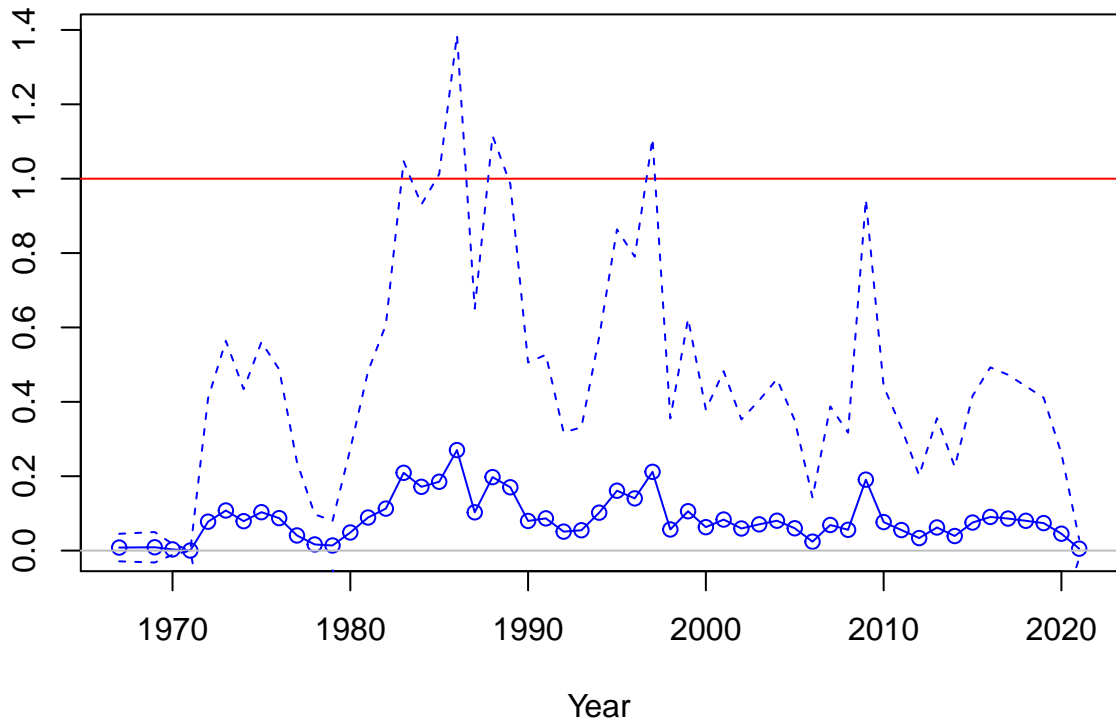
SPR

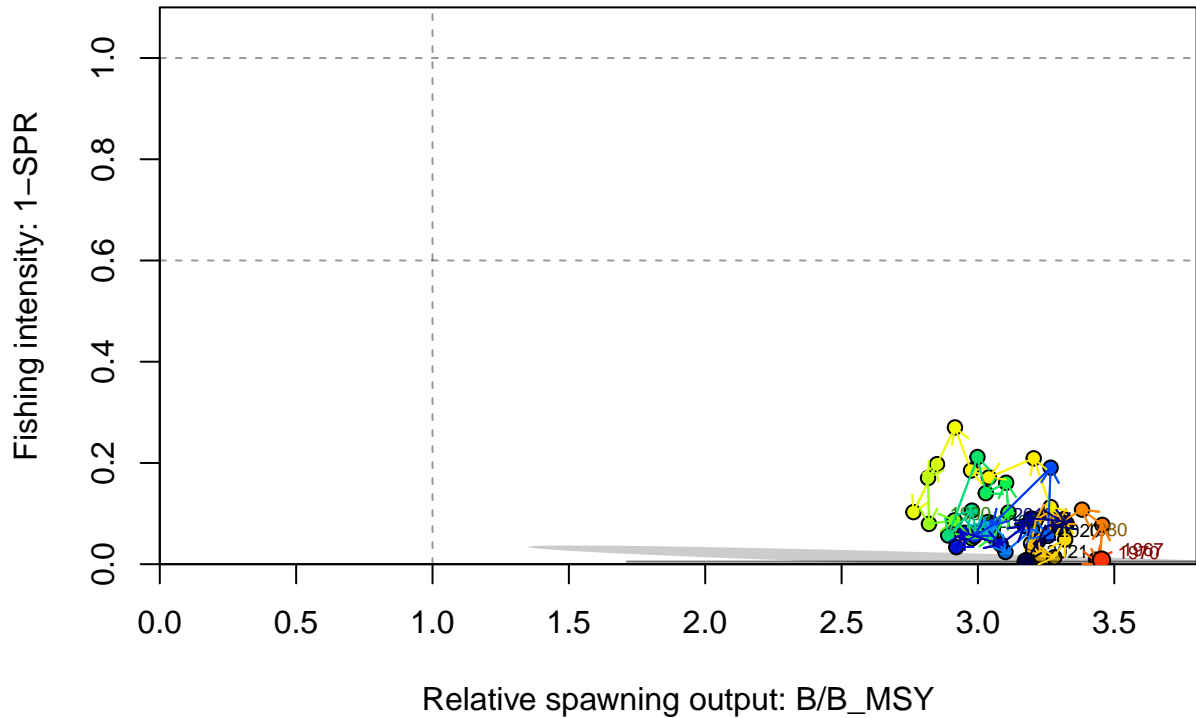


1-SPR

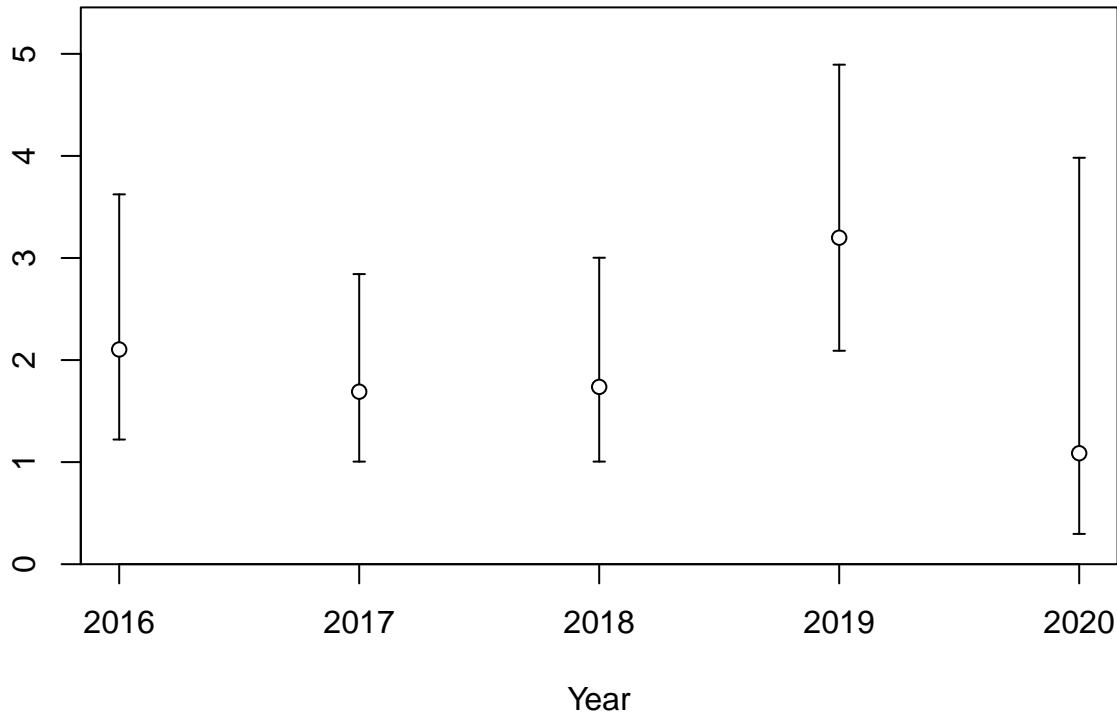


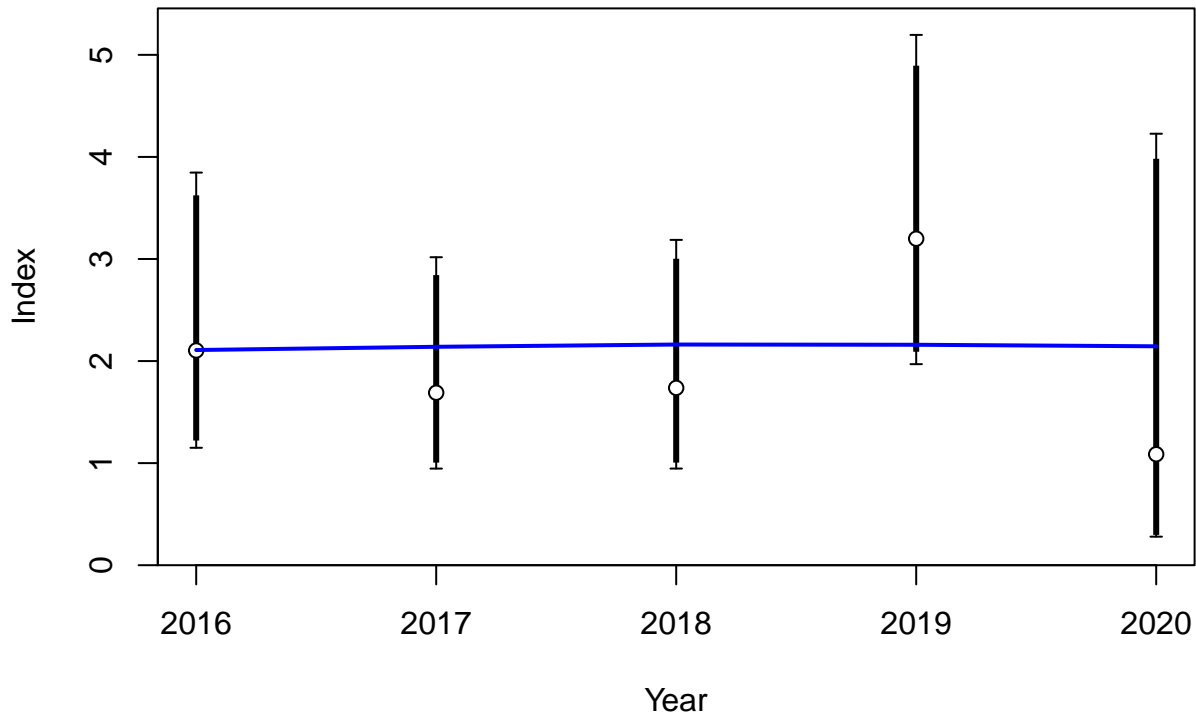
Fishing intensity: 1-SPR

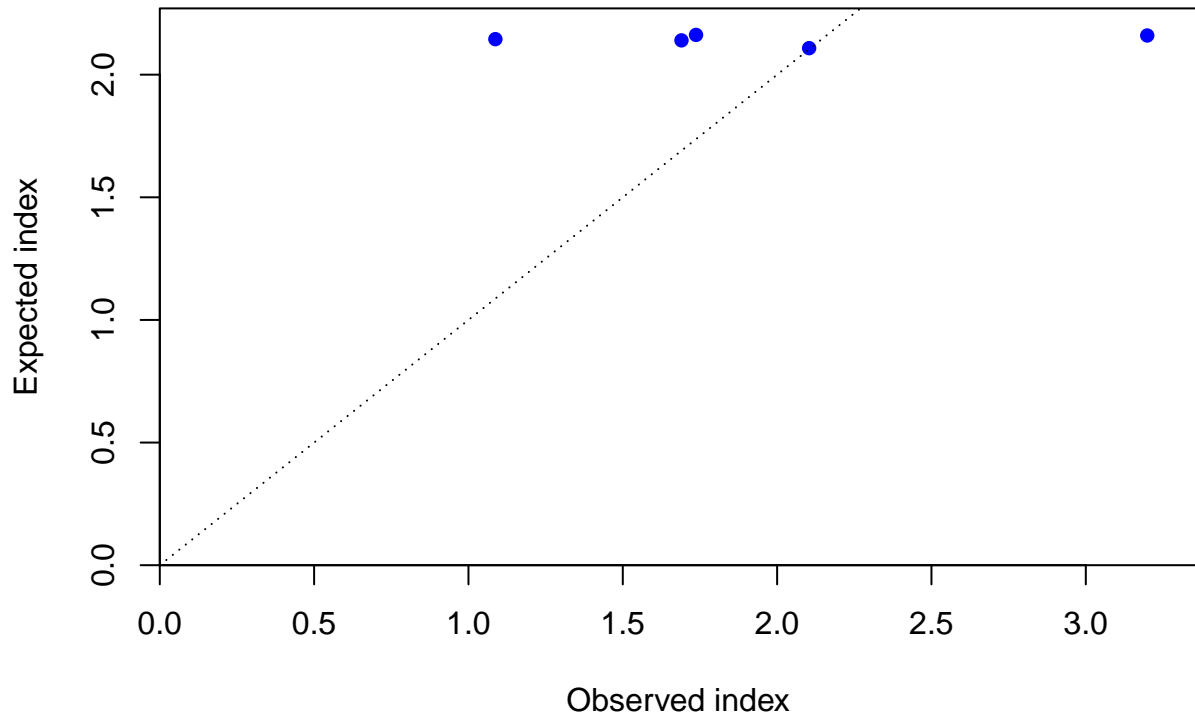


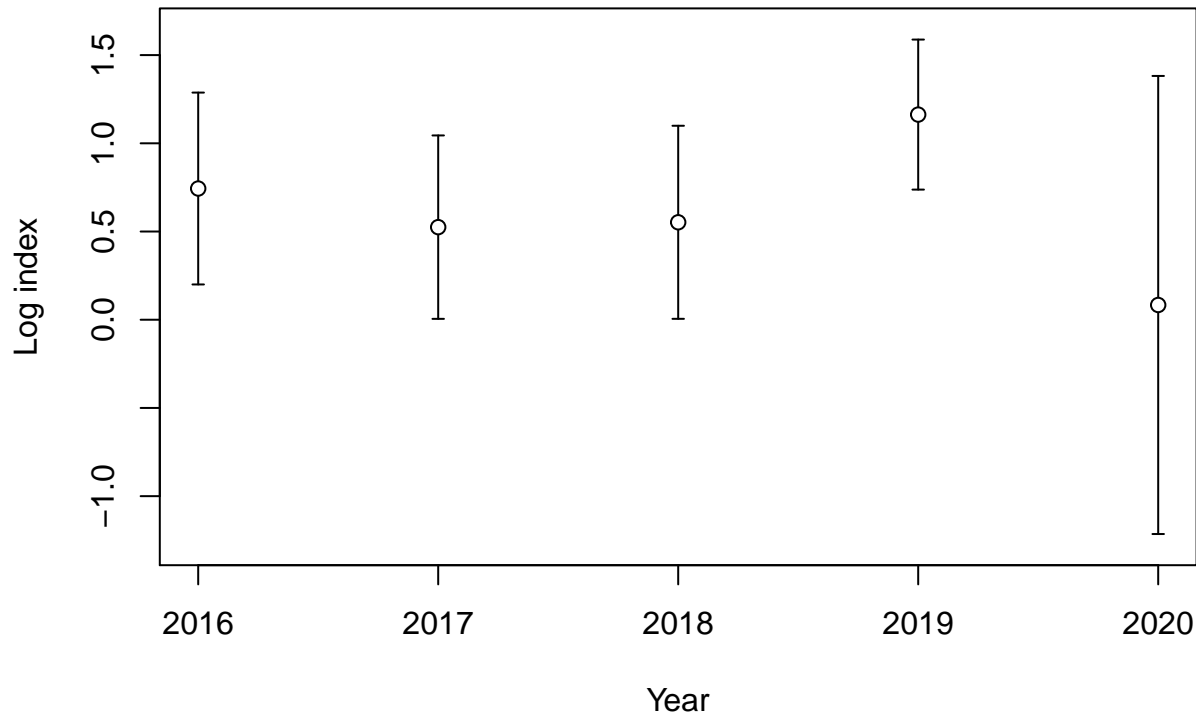


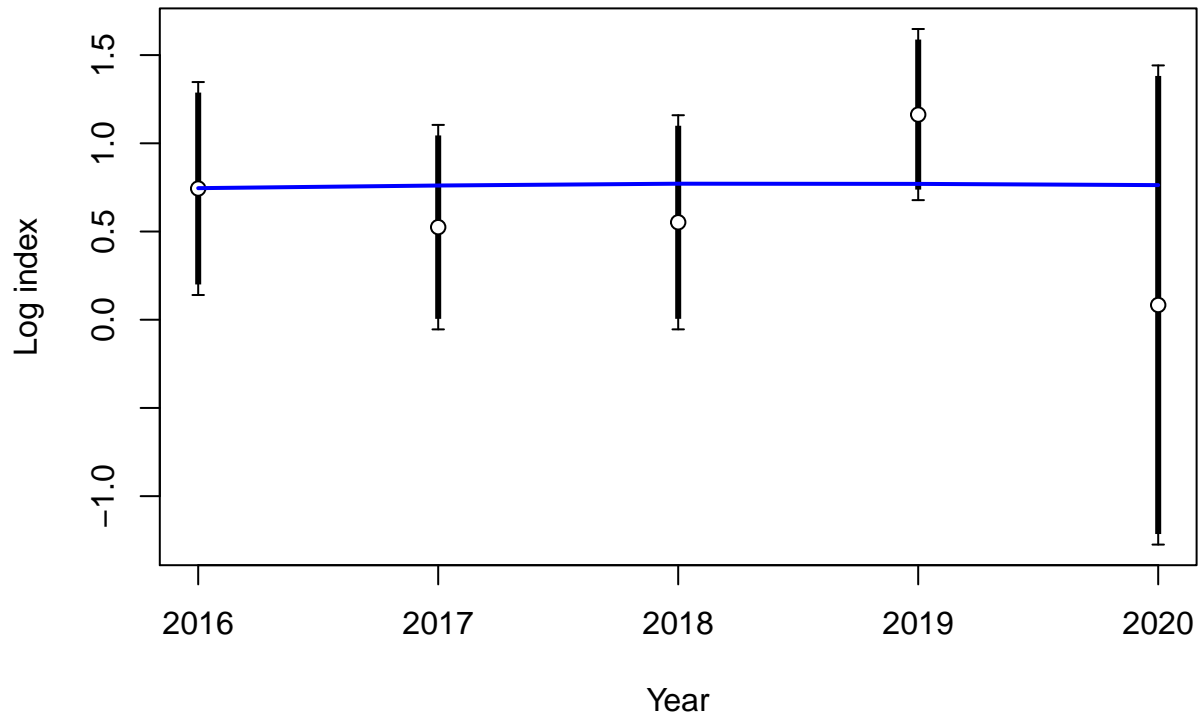
Index

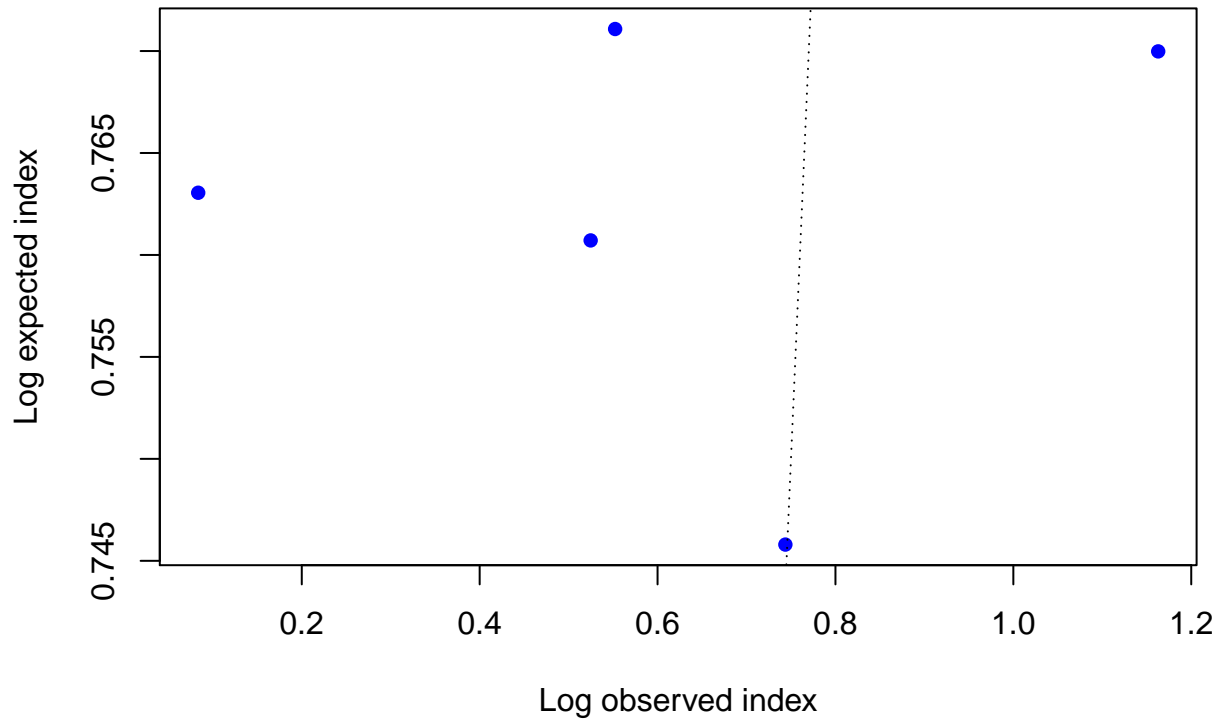




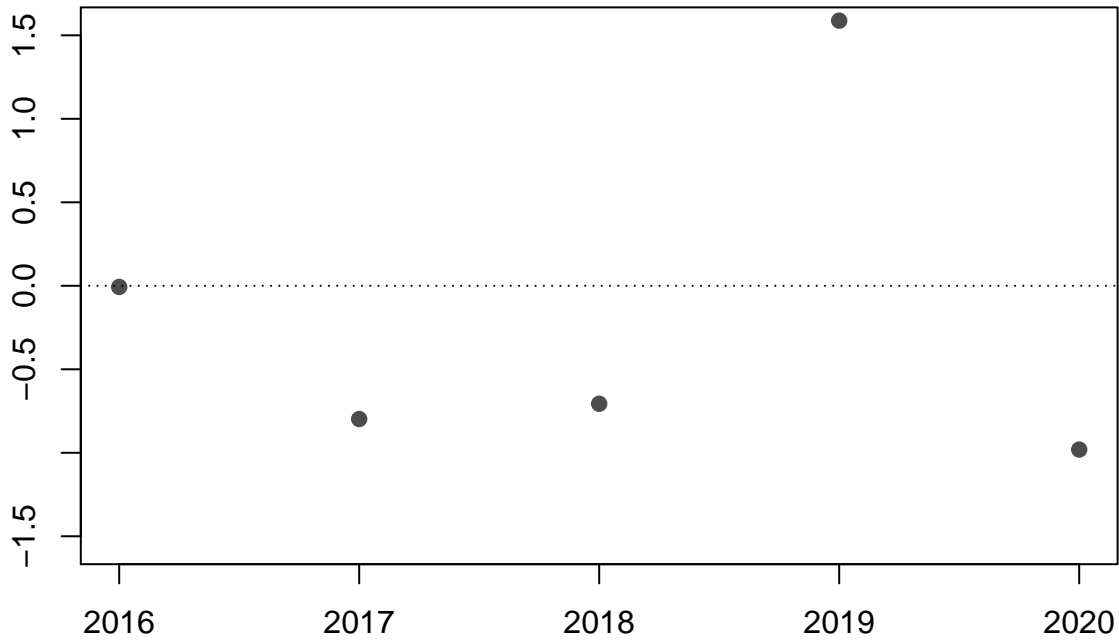




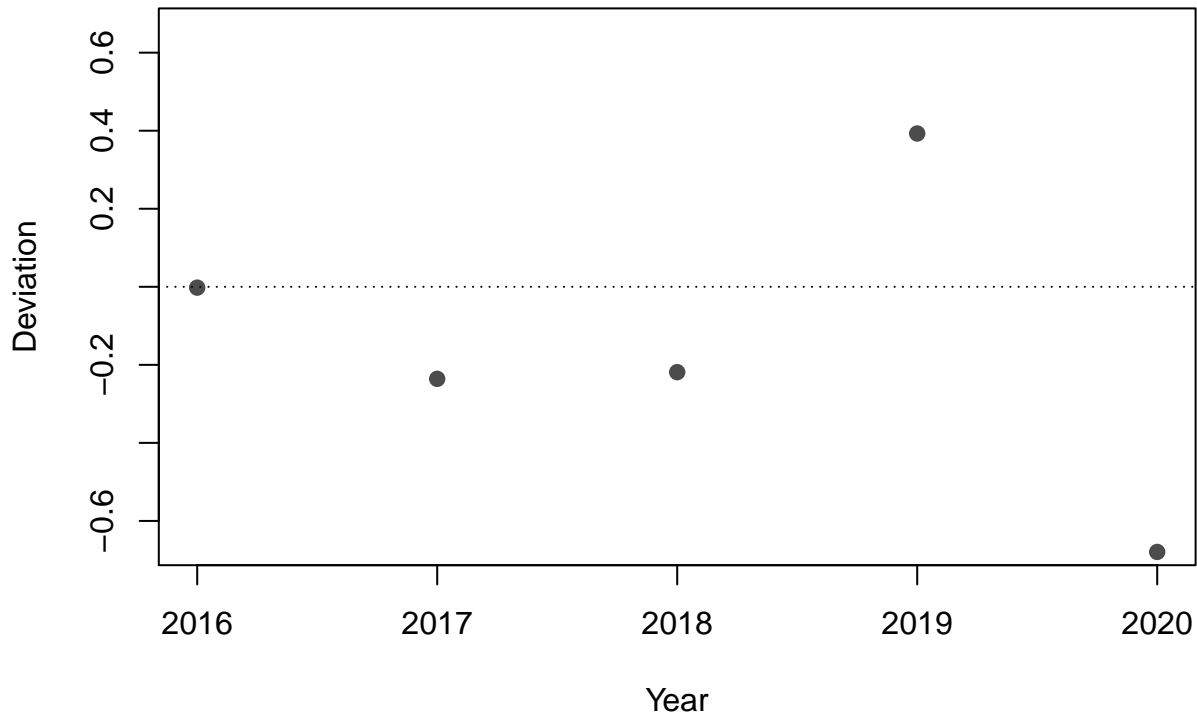


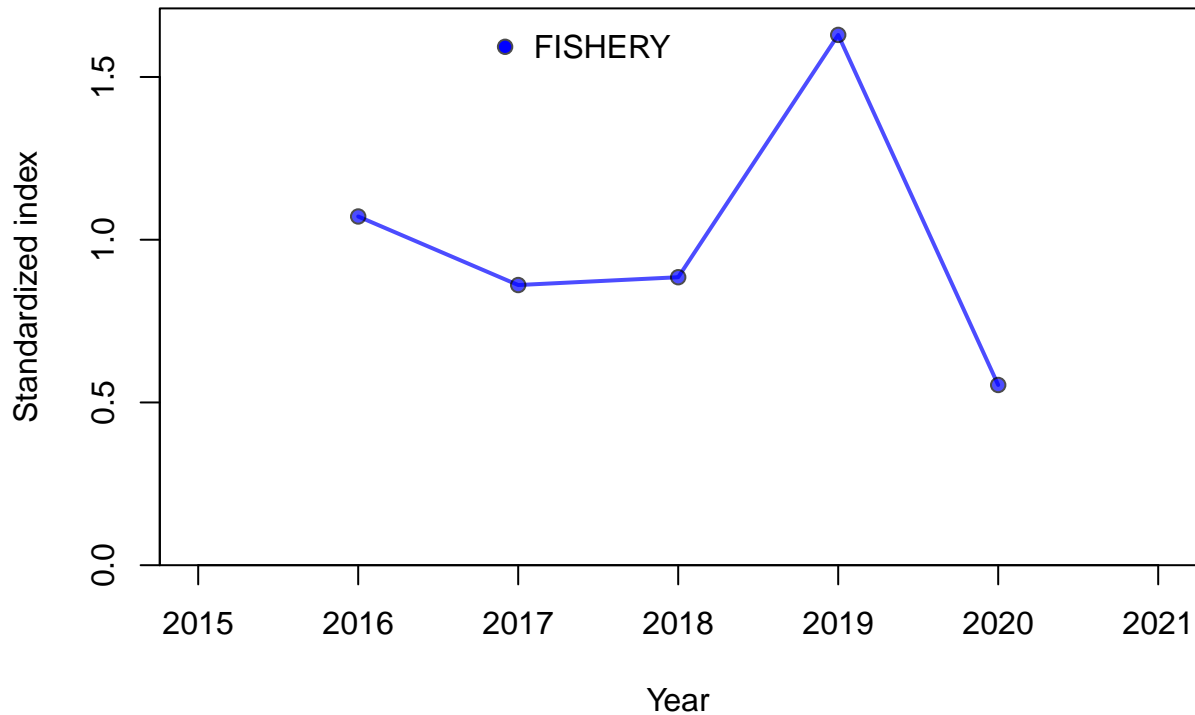


Residual

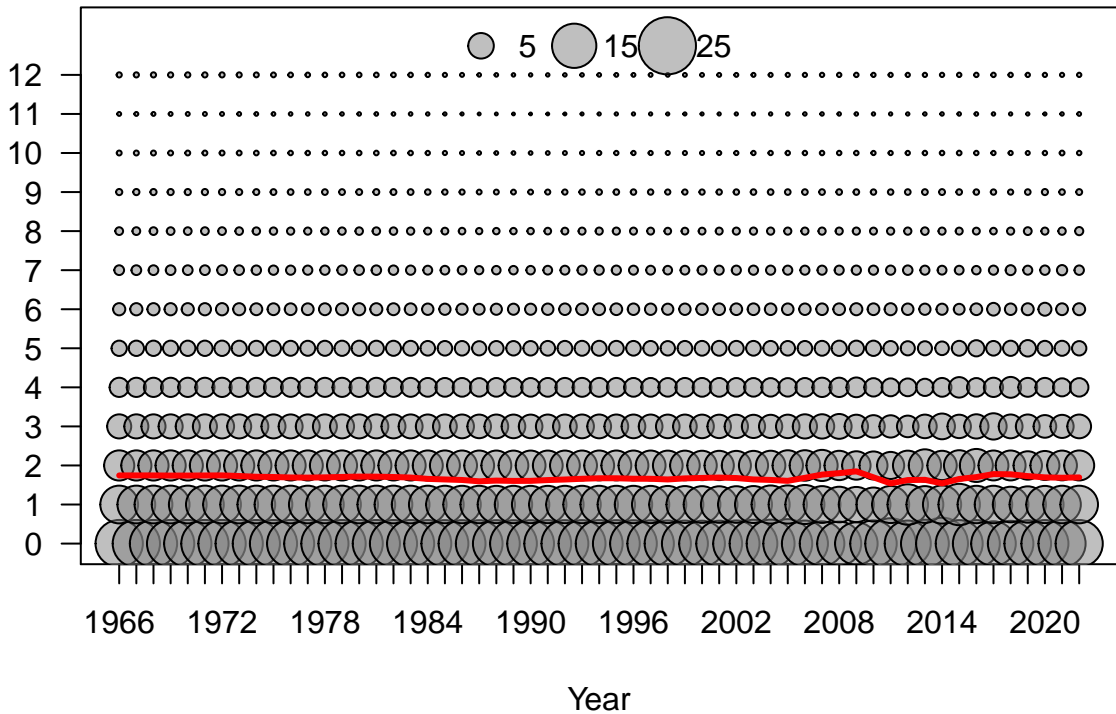


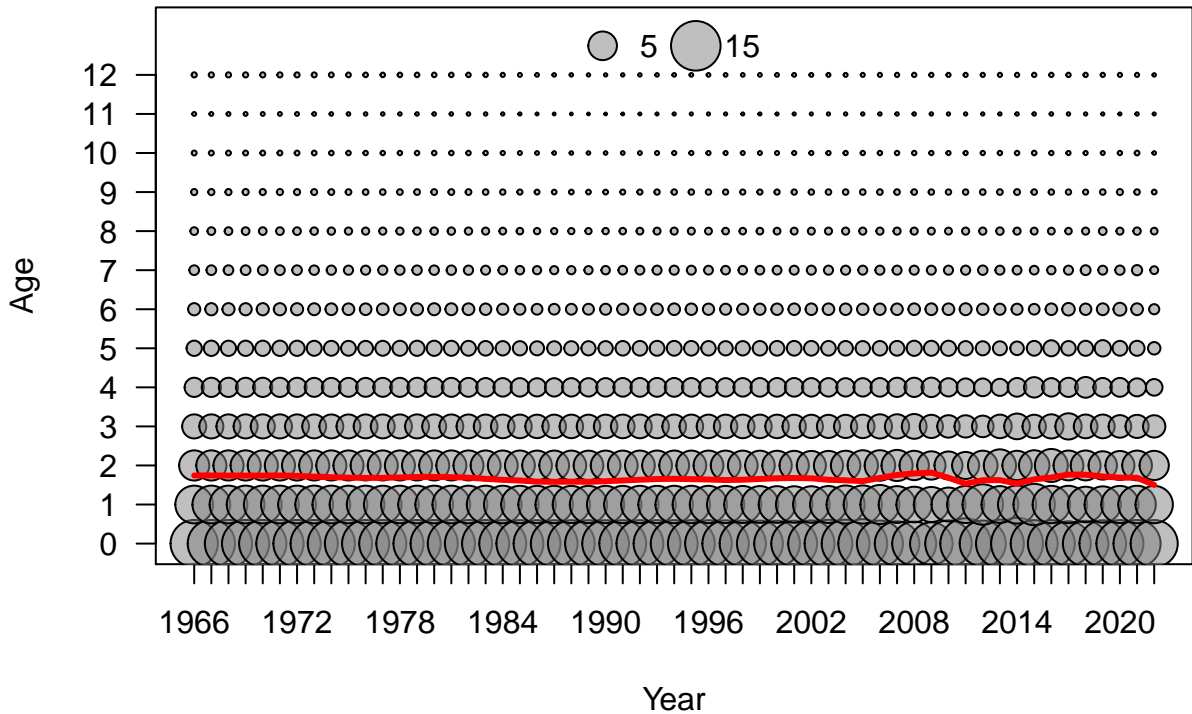
Year



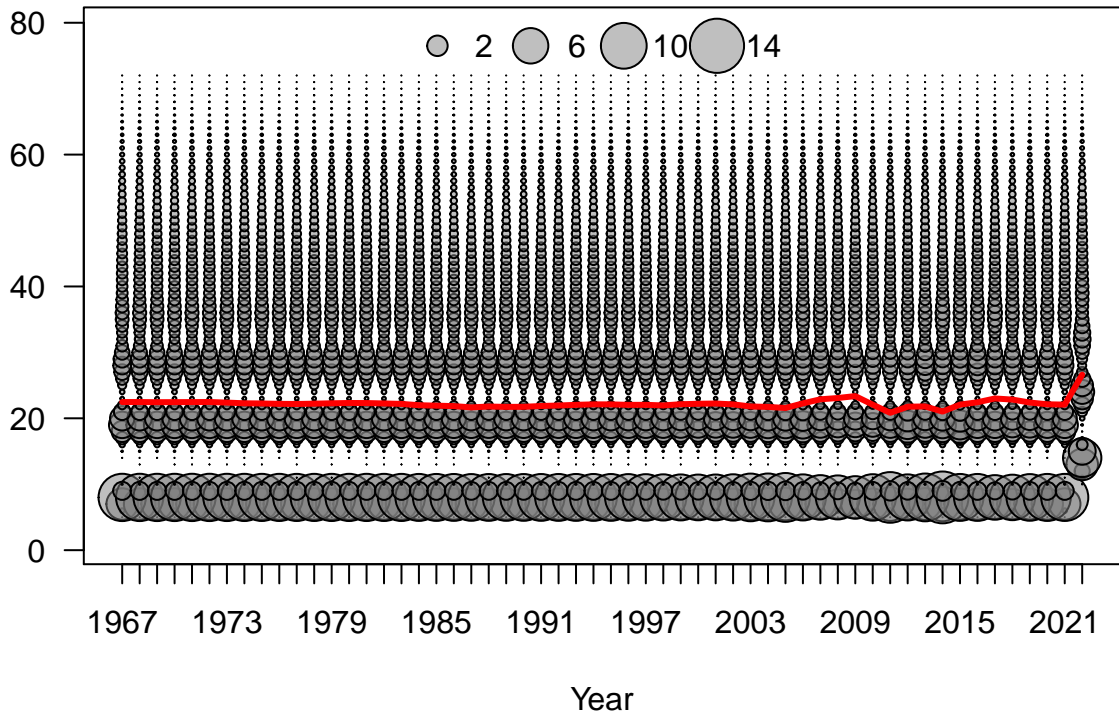


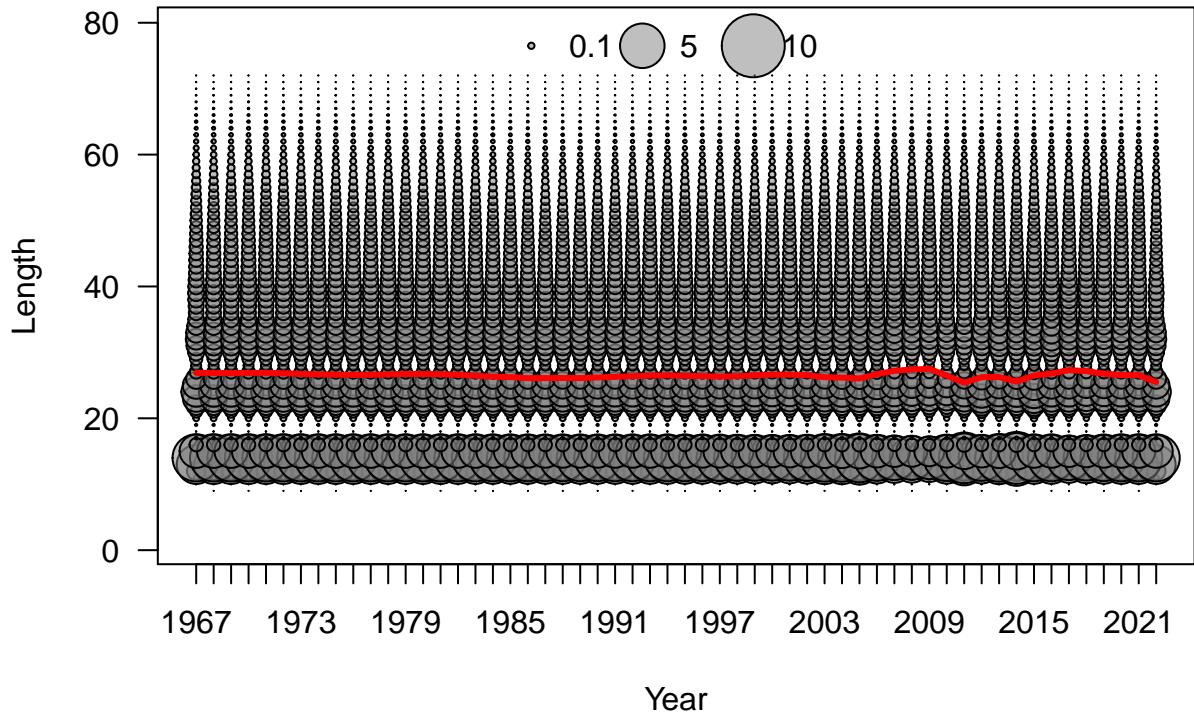
Age

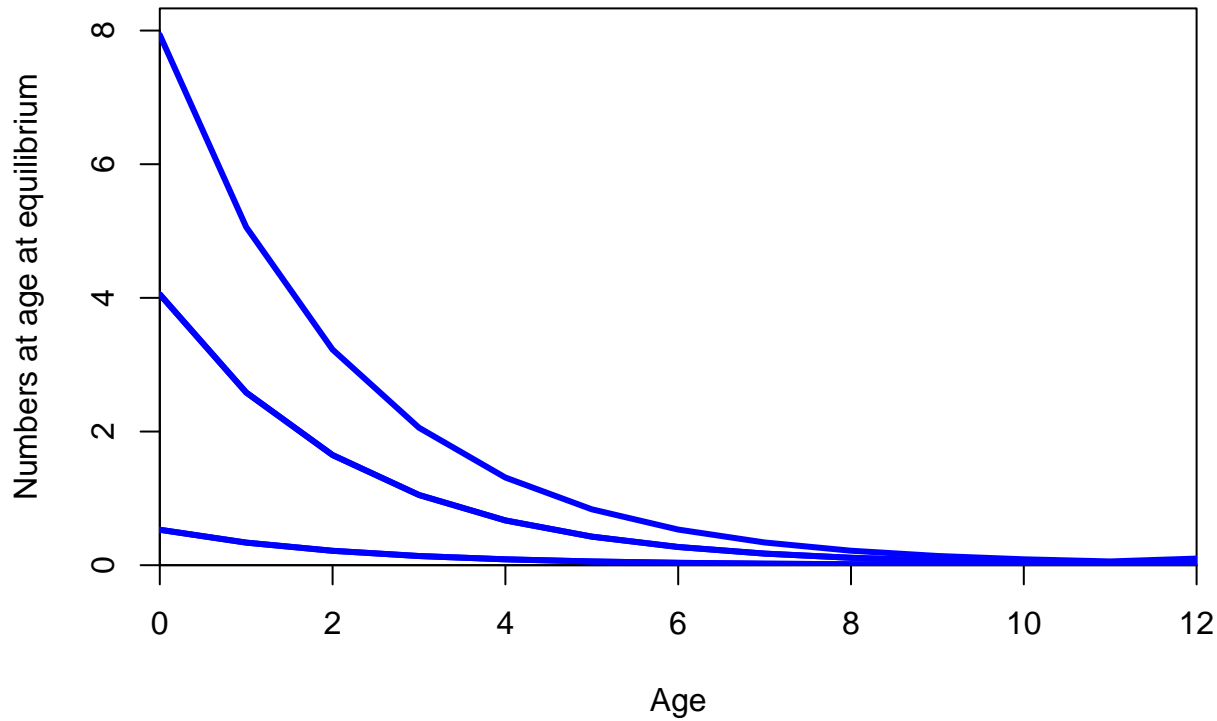


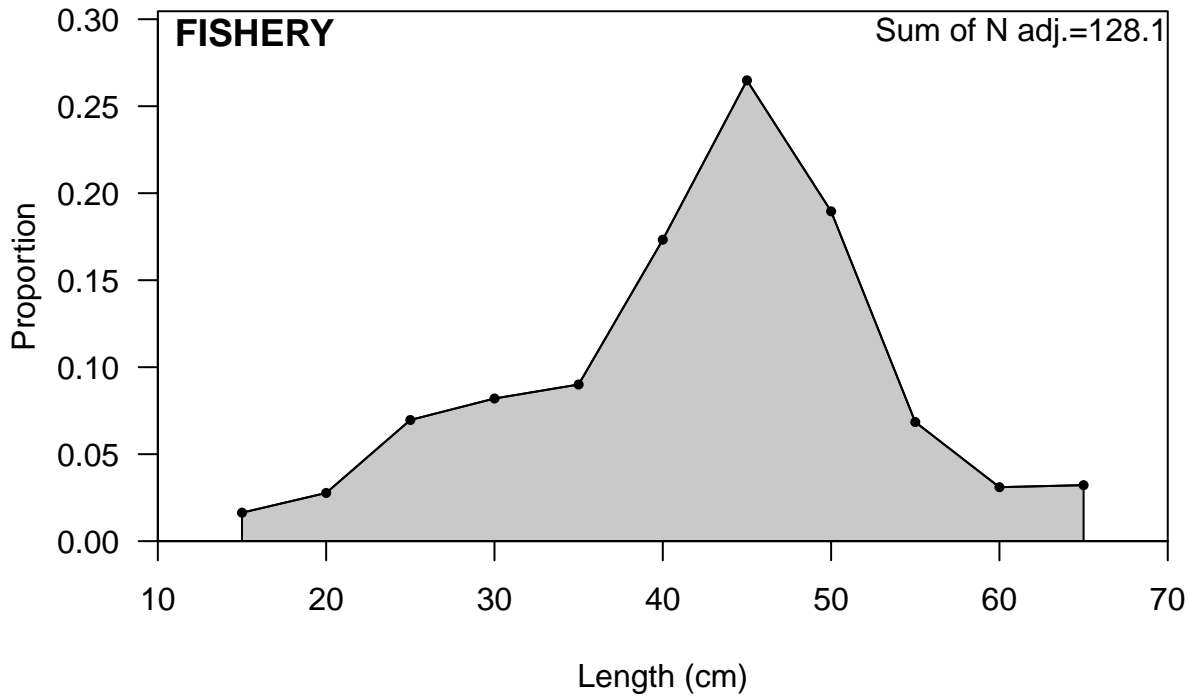


Length



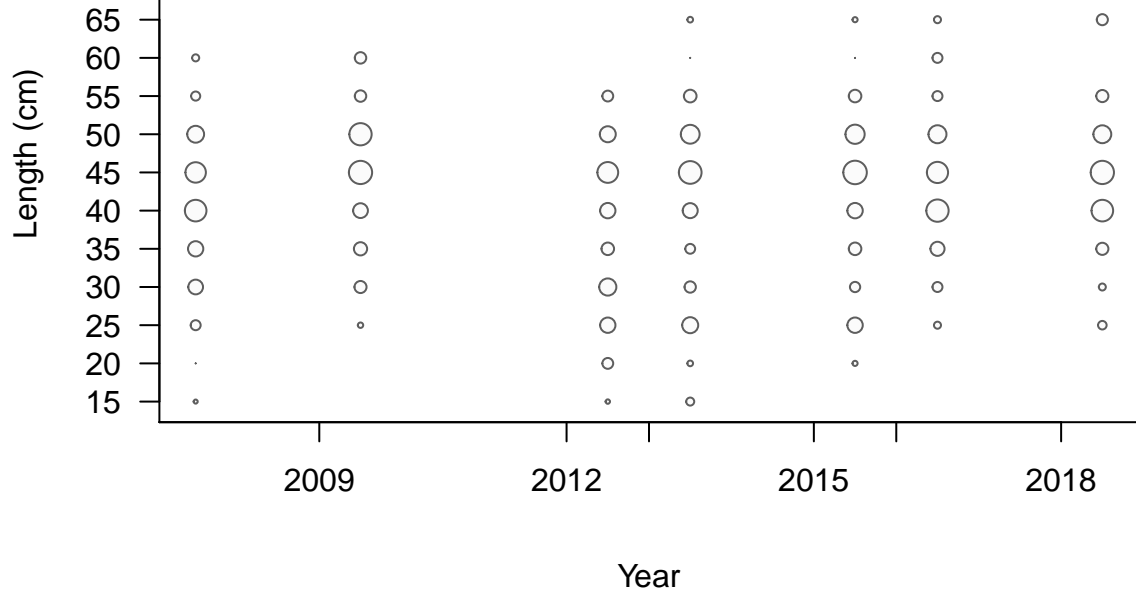




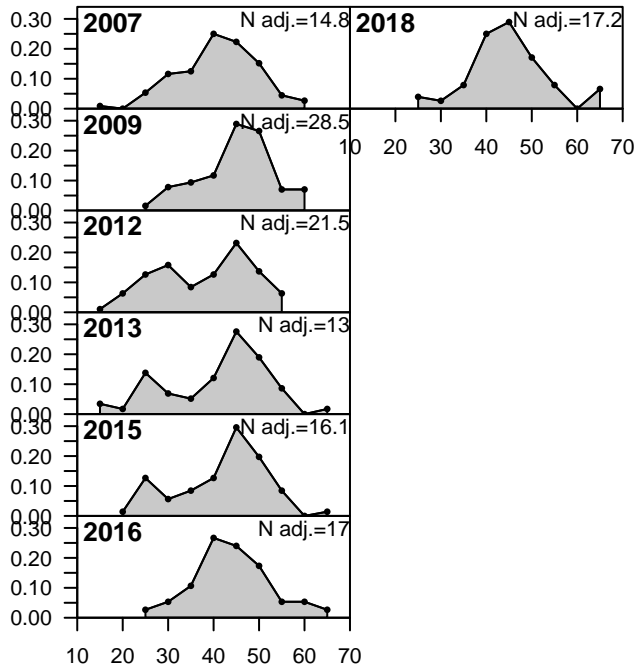


FISHERY

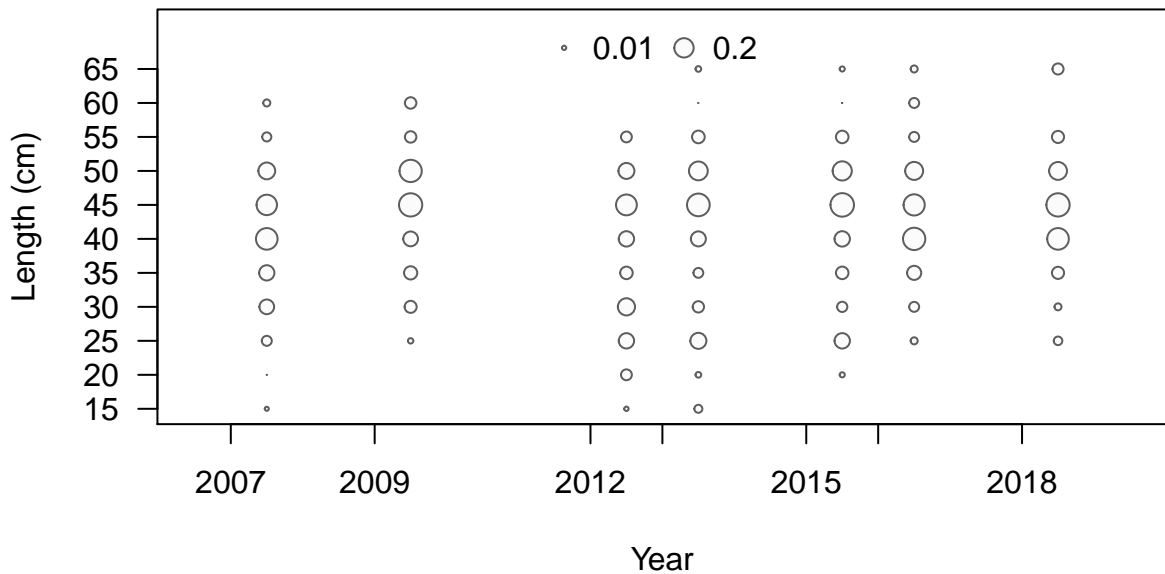
◦ 0.01 ○ 0.2



Proportion

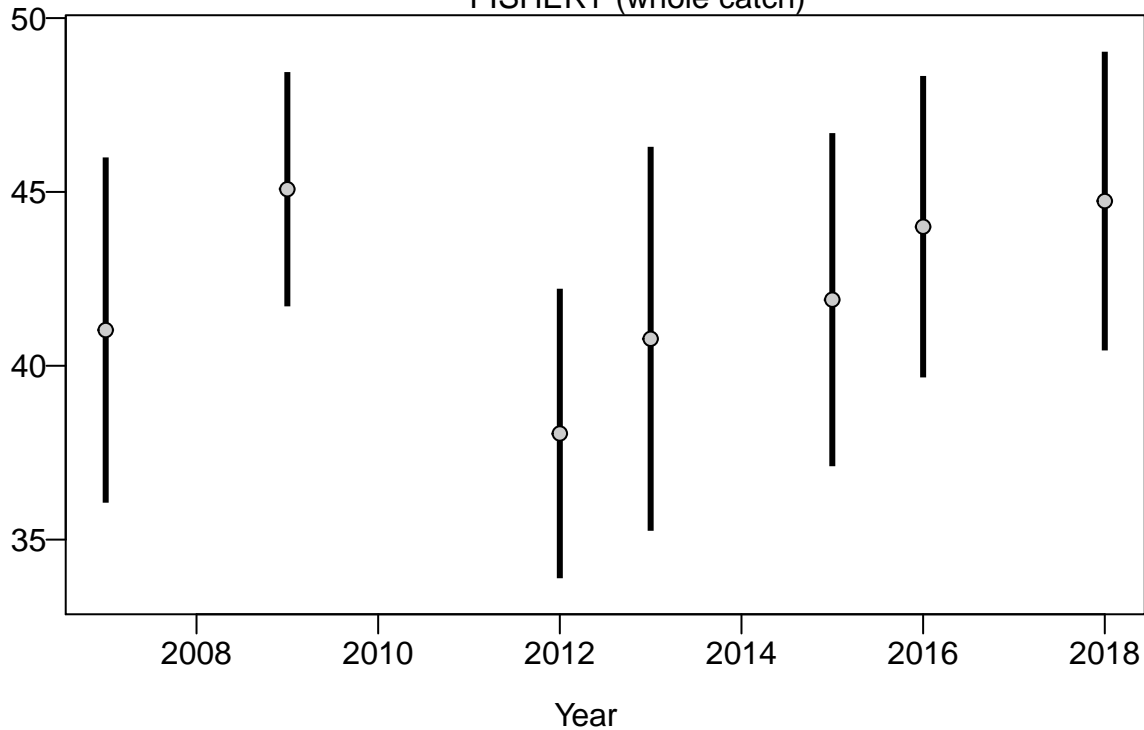


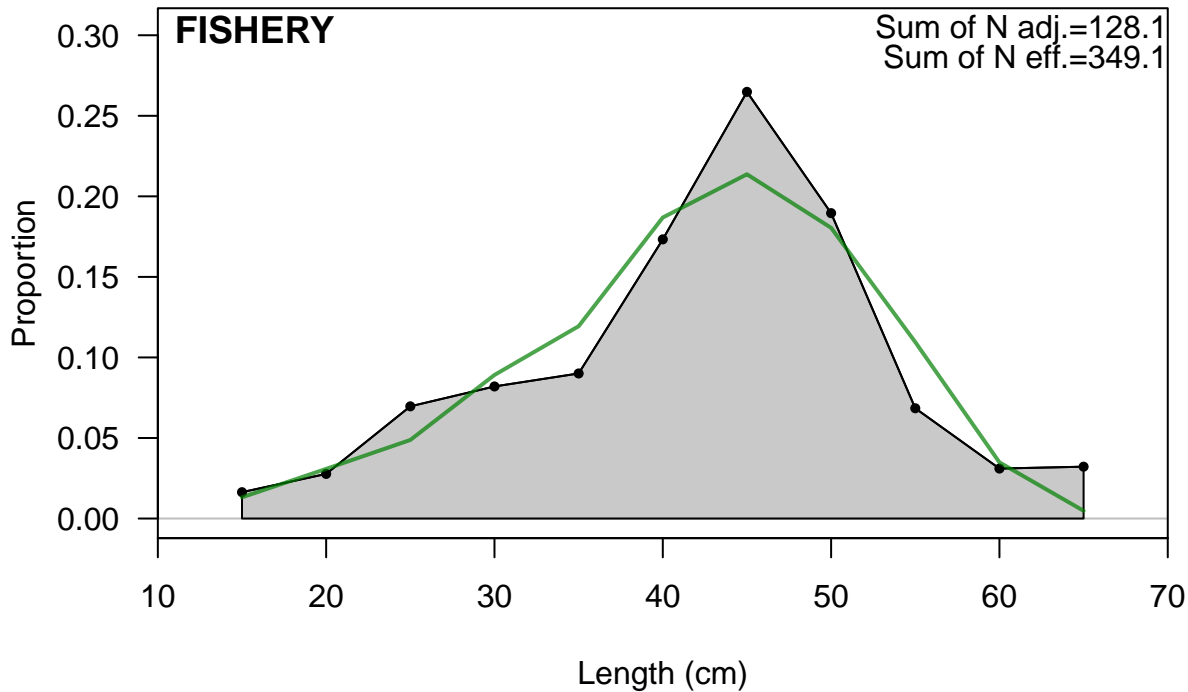
Length (cm)



FISHERY (whole catch)

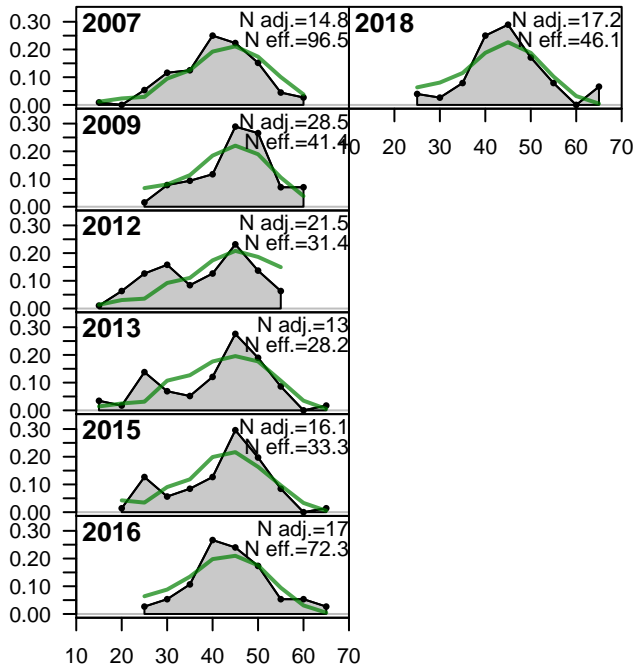
Mean length



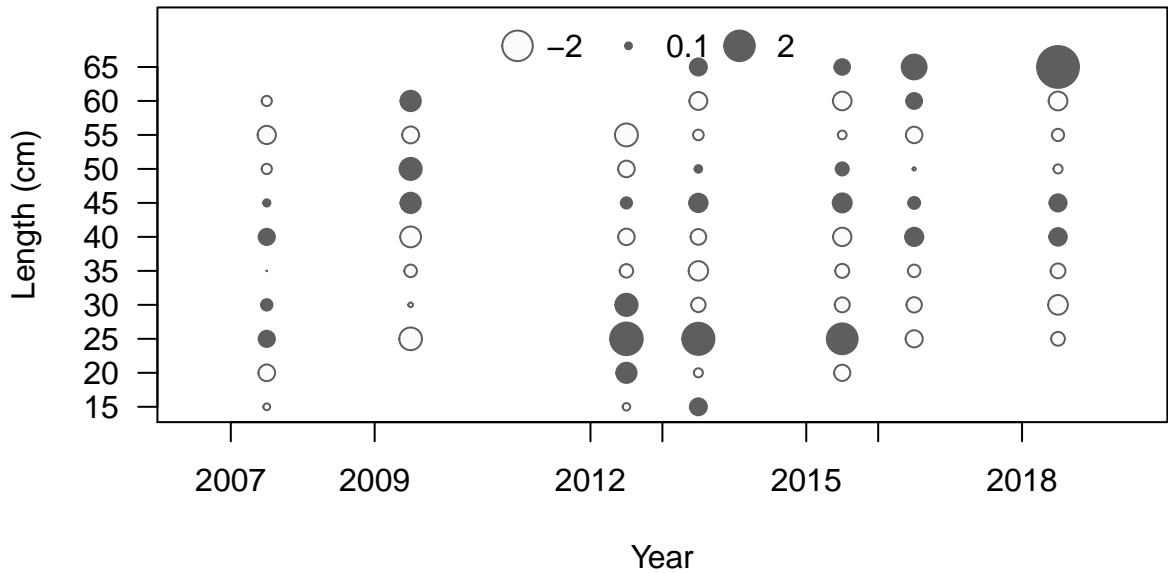




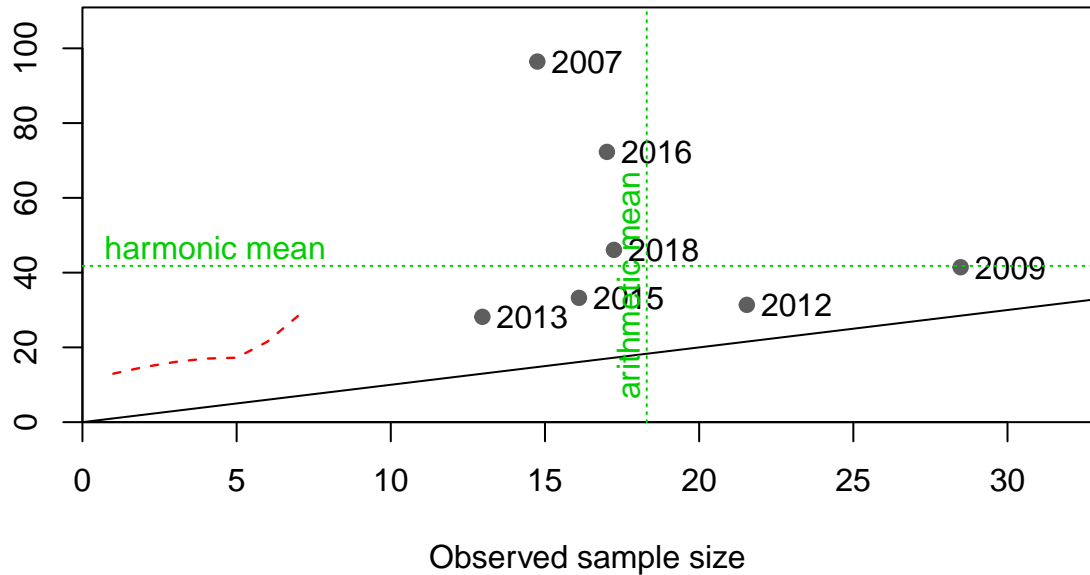
Proportion



Length (cm)



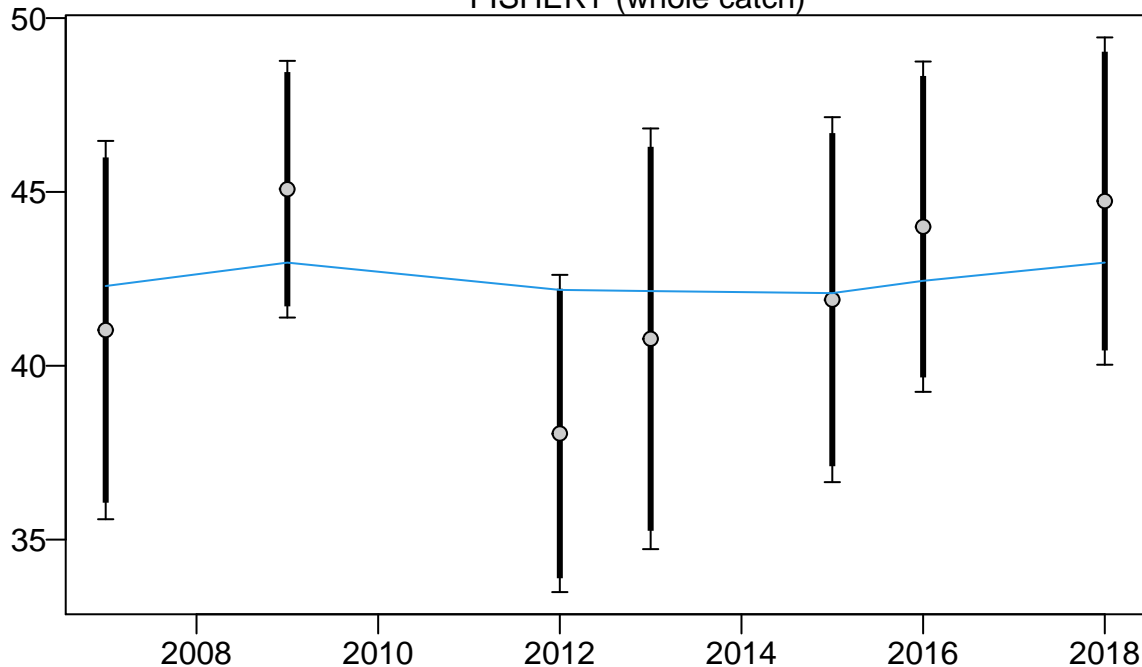
Effective sample size

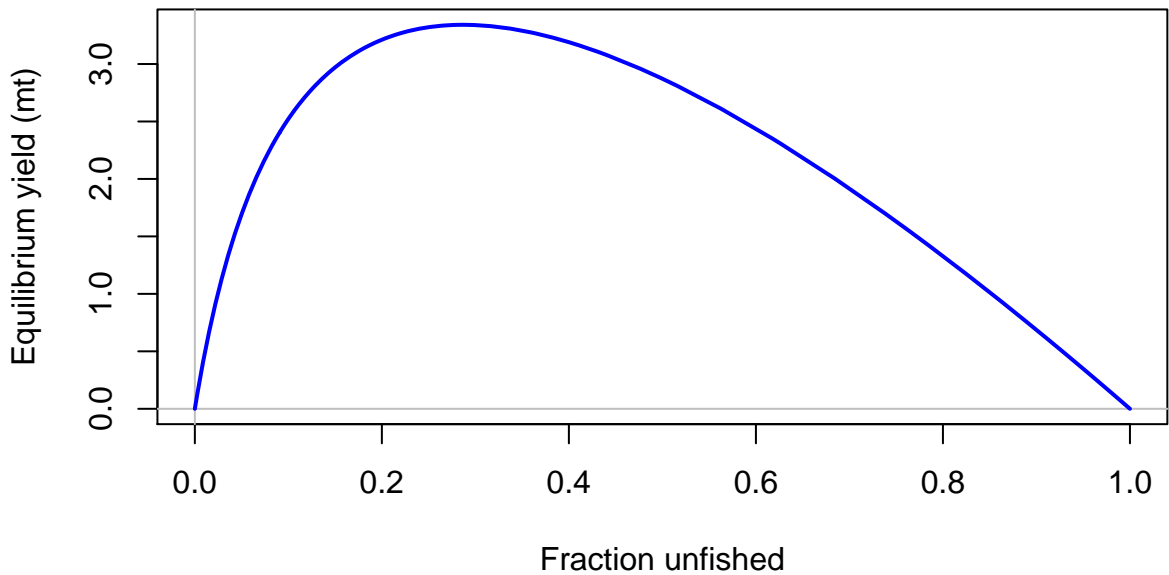


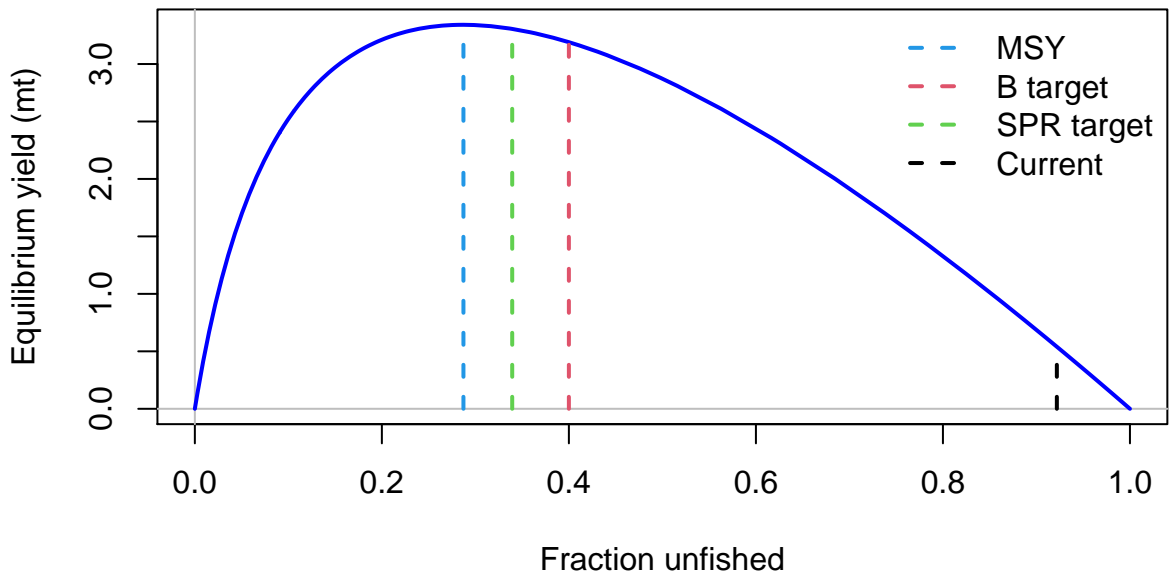
FISHERY (whole catch)

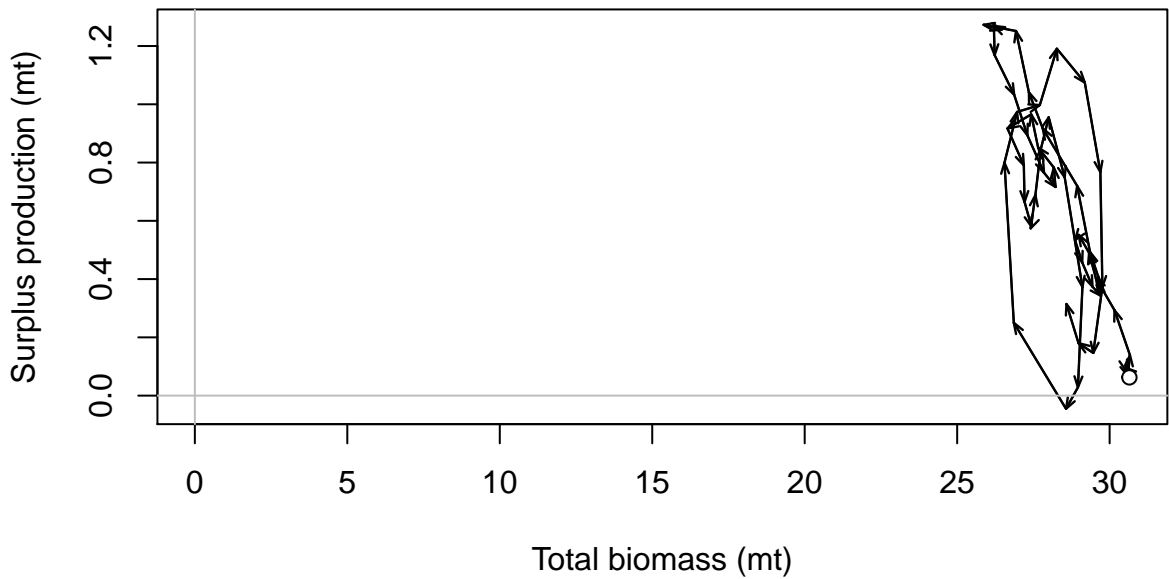
Mean length

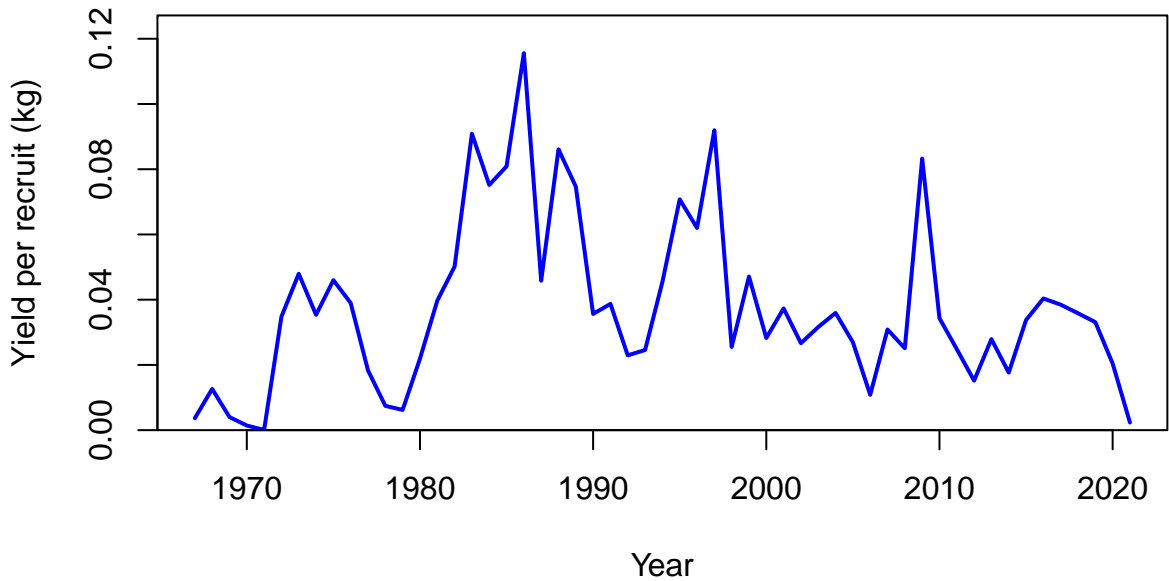
Year

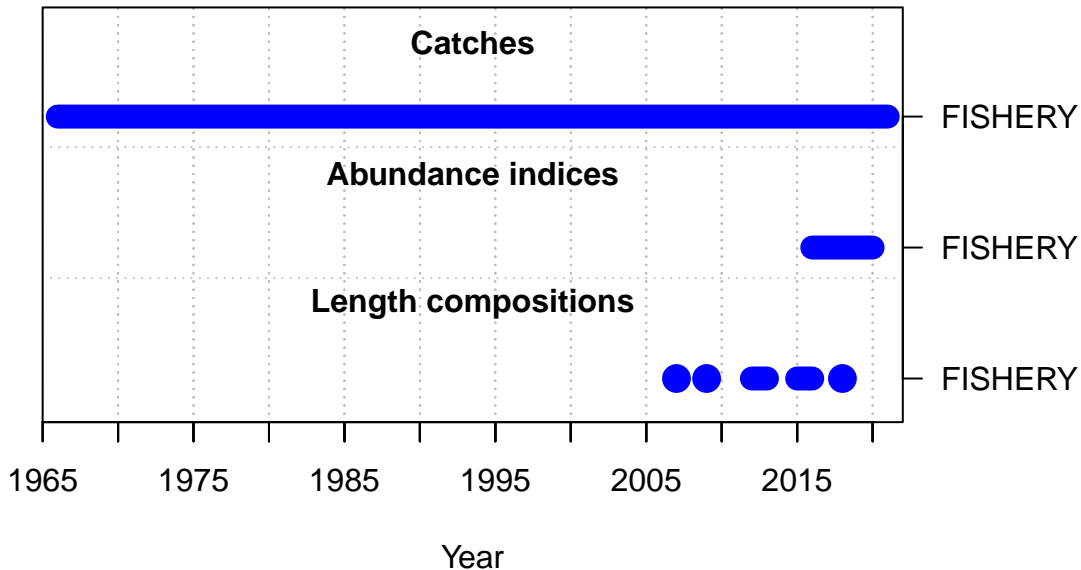


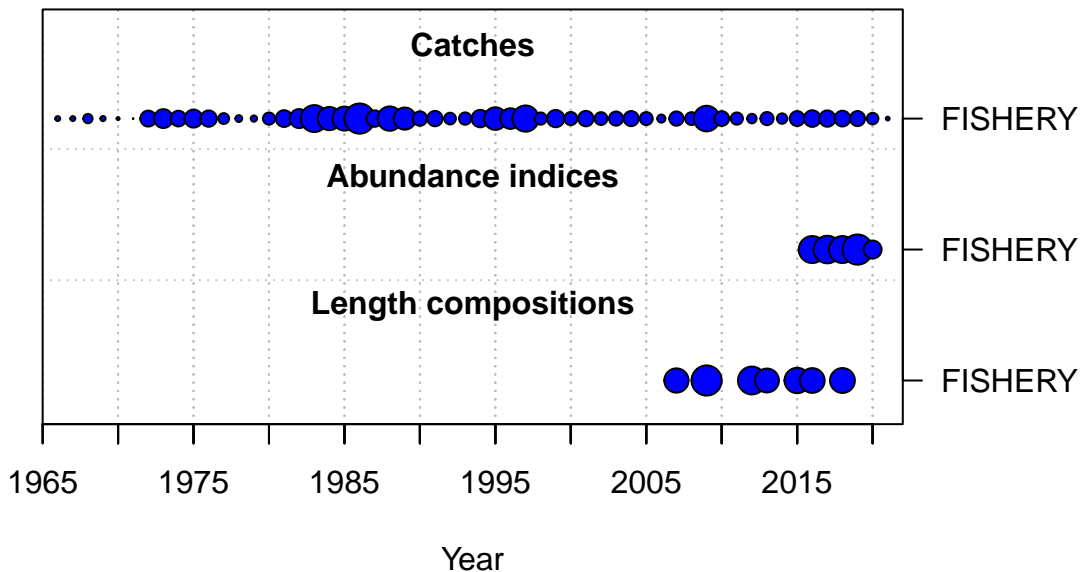




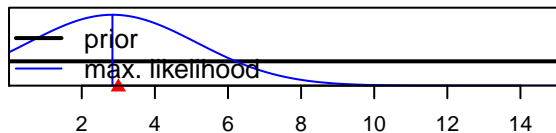




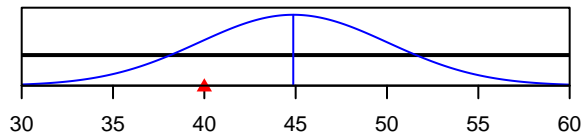




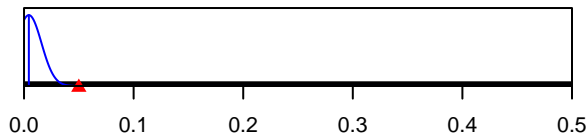
SR_LN(R0)



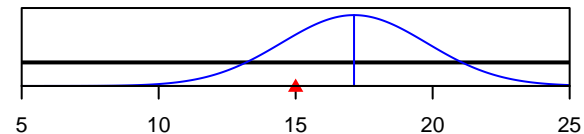
Size_inflection_FISHERY(1)



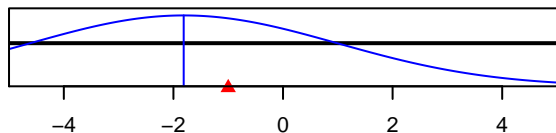
InitF_seas_1_flt_1FISHERY



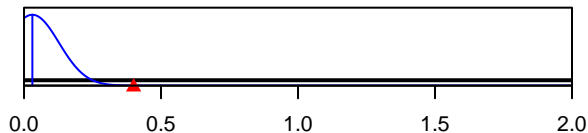
Size_95%width_FISHERY(1)



LnQ_base_FISHERY(1)



Q_extraSD_FISHERY(1)



Parameter value