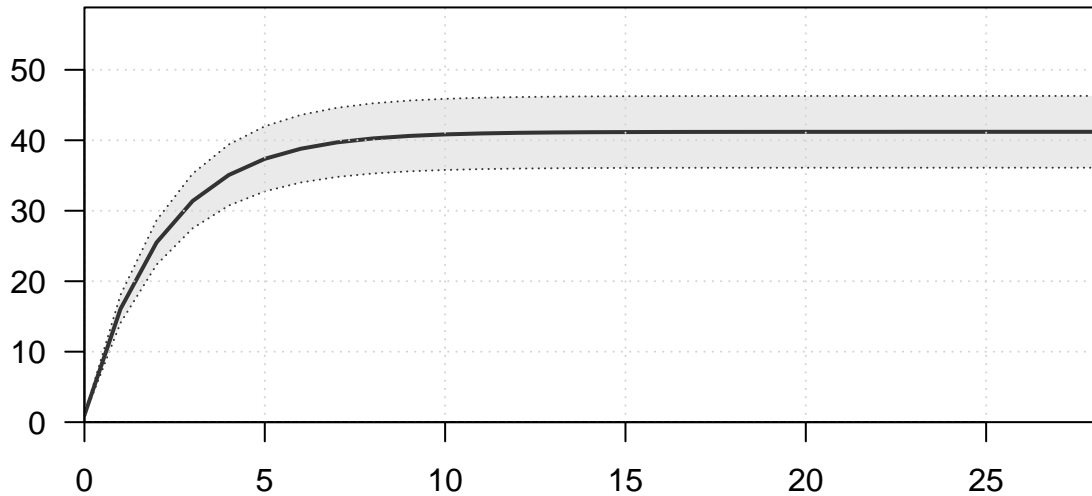


Plots created using the 'r4ss' package in R
Stock Synthesis version: 3.30.19.0
StartTime: Sun Feb 19 14:59:13 2023
Data_File: data.ss
Control_File: control.ss

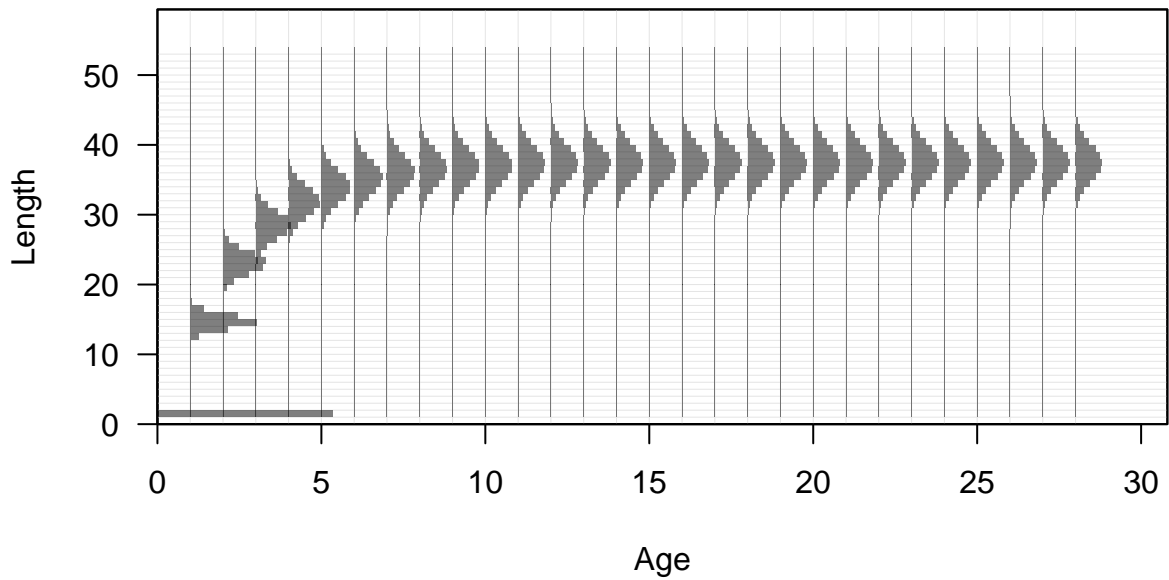
Length (cm, beginning of the year)



Age (yr)

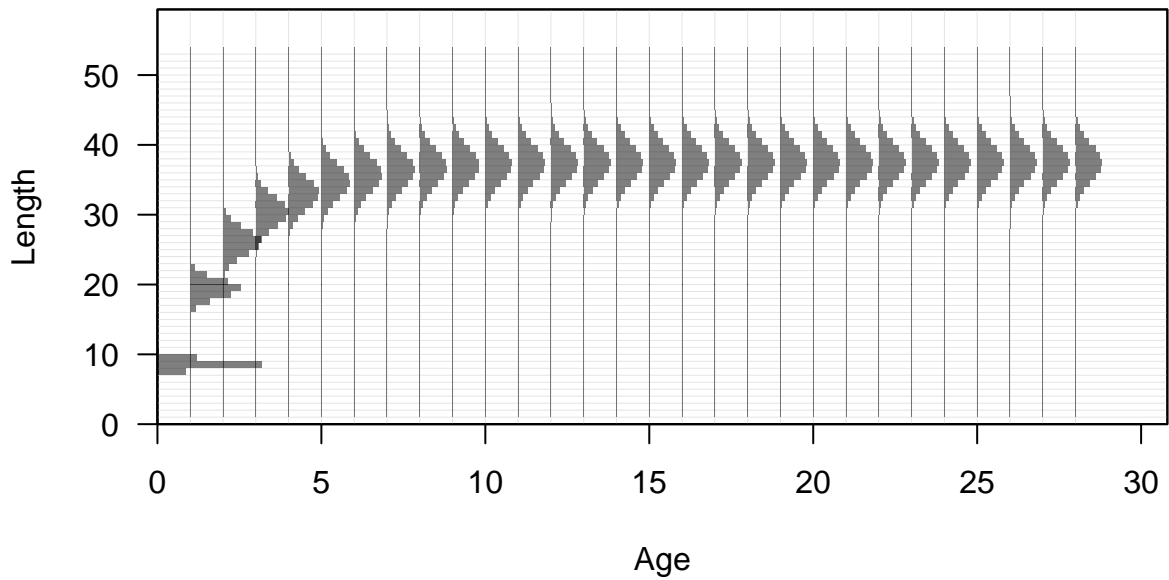








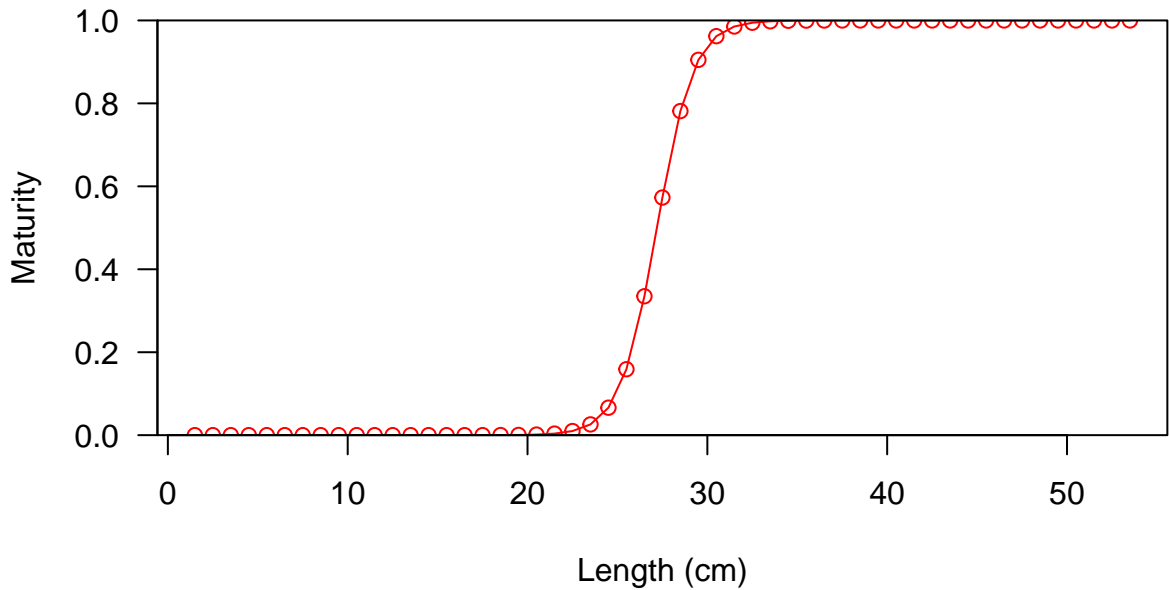












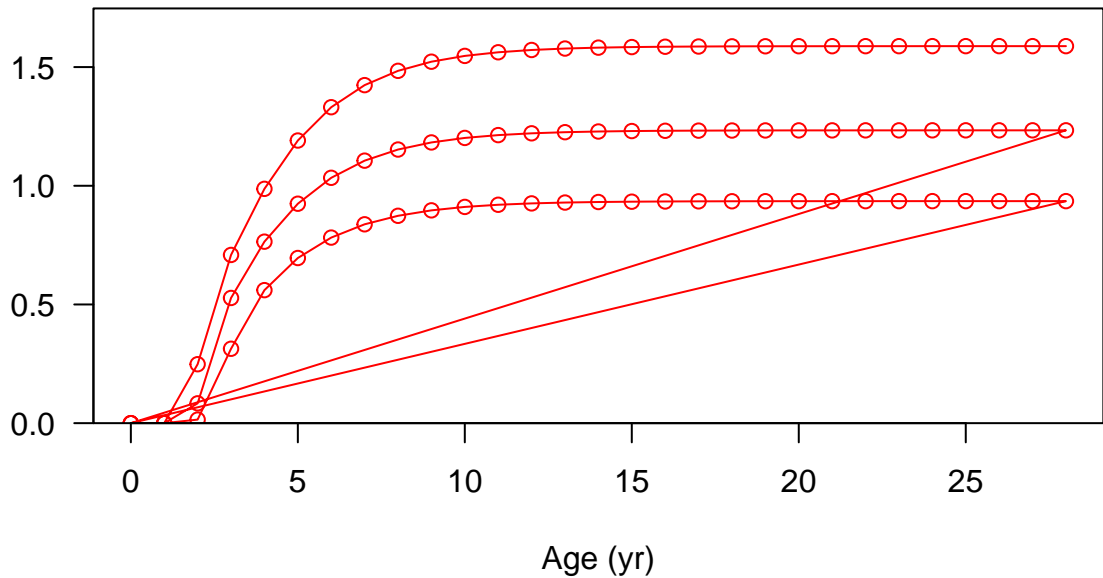




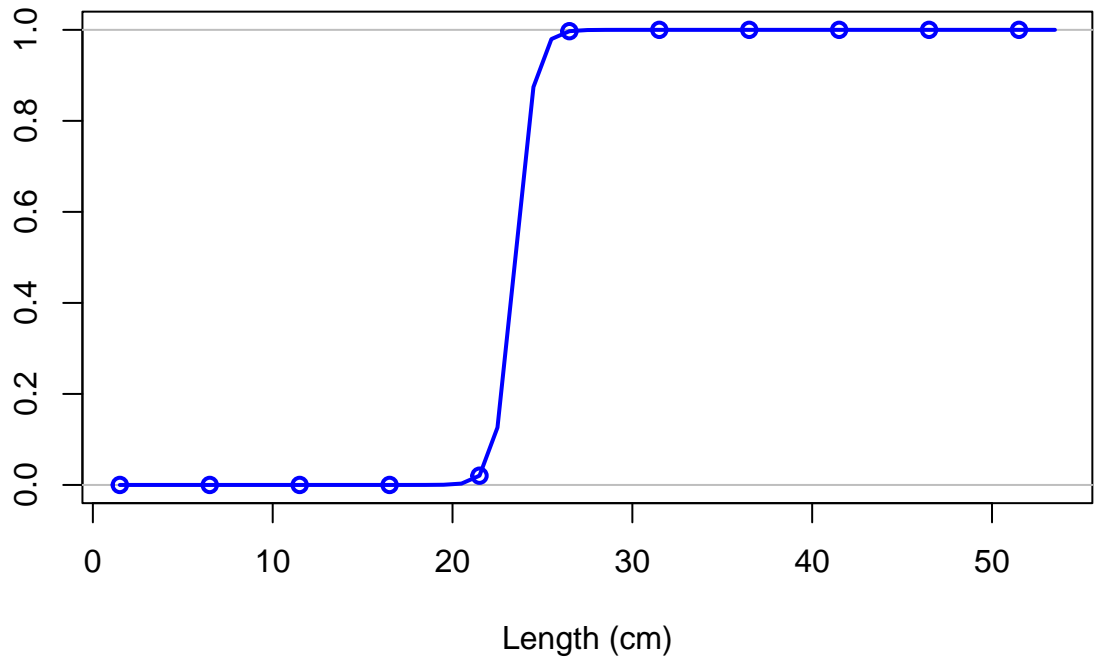




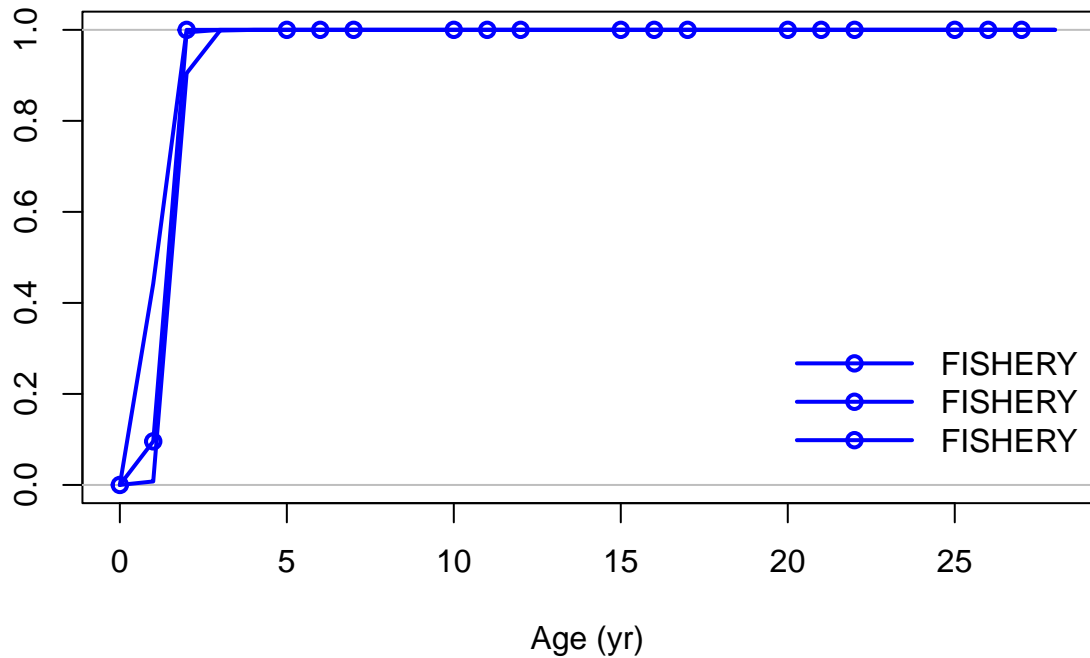
Spawning output



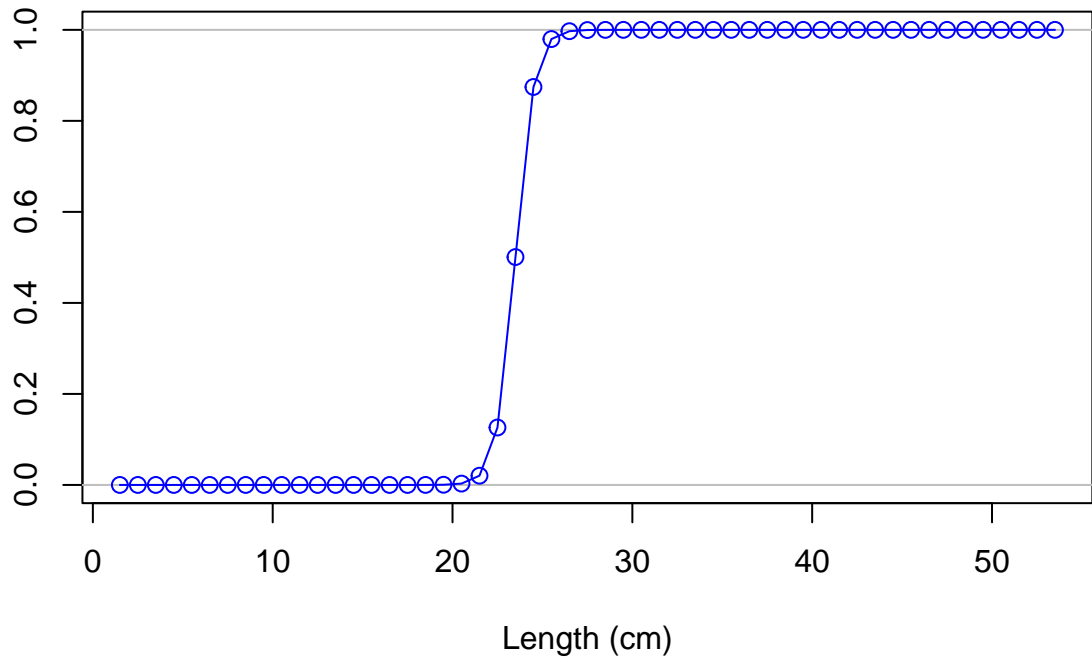
Selectivity

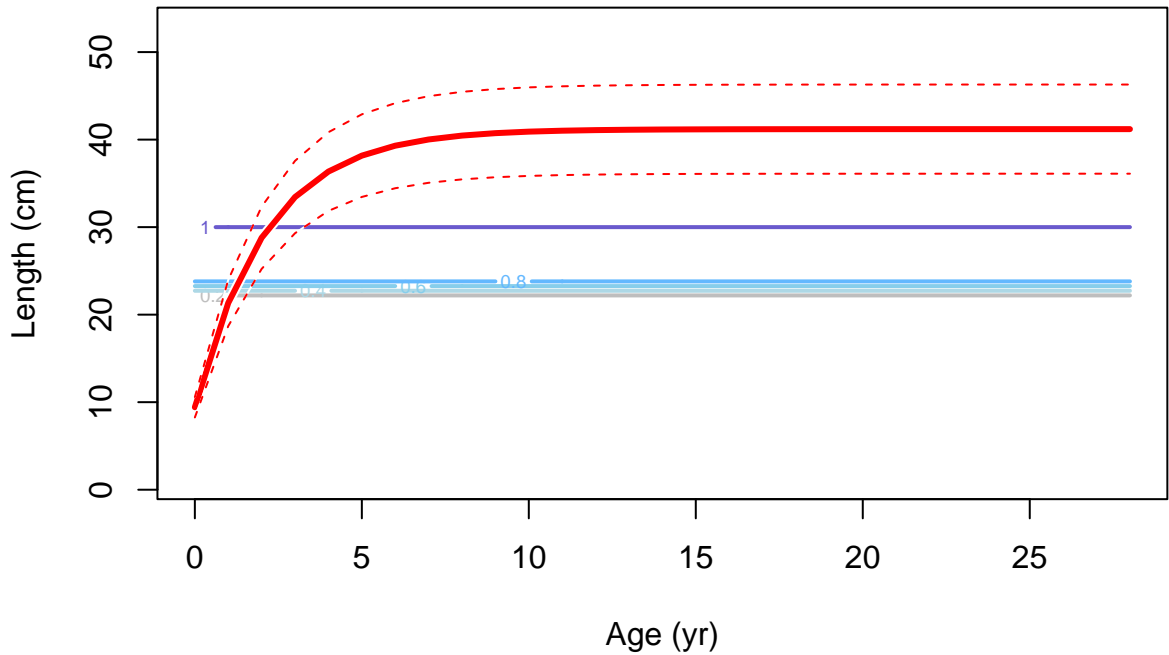


Selectivity

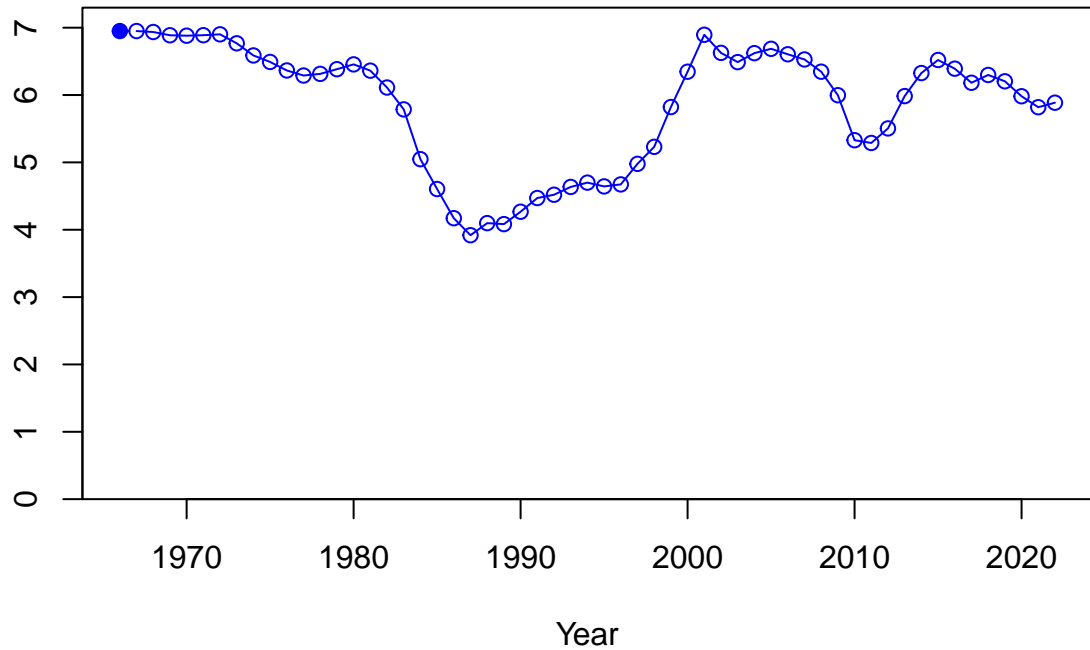


Selectivity

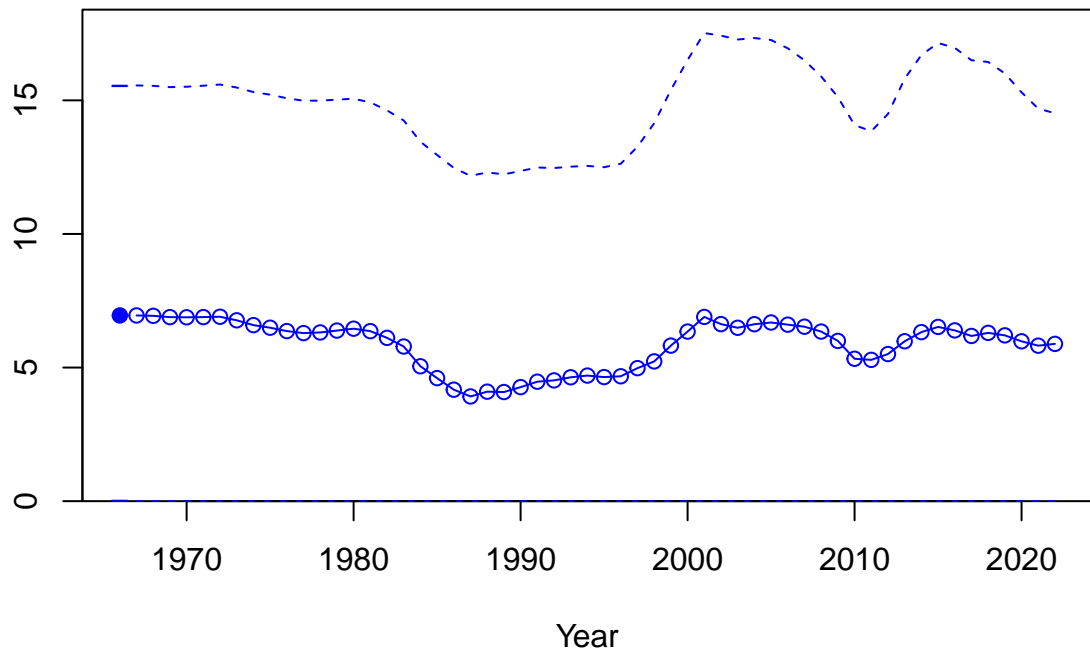




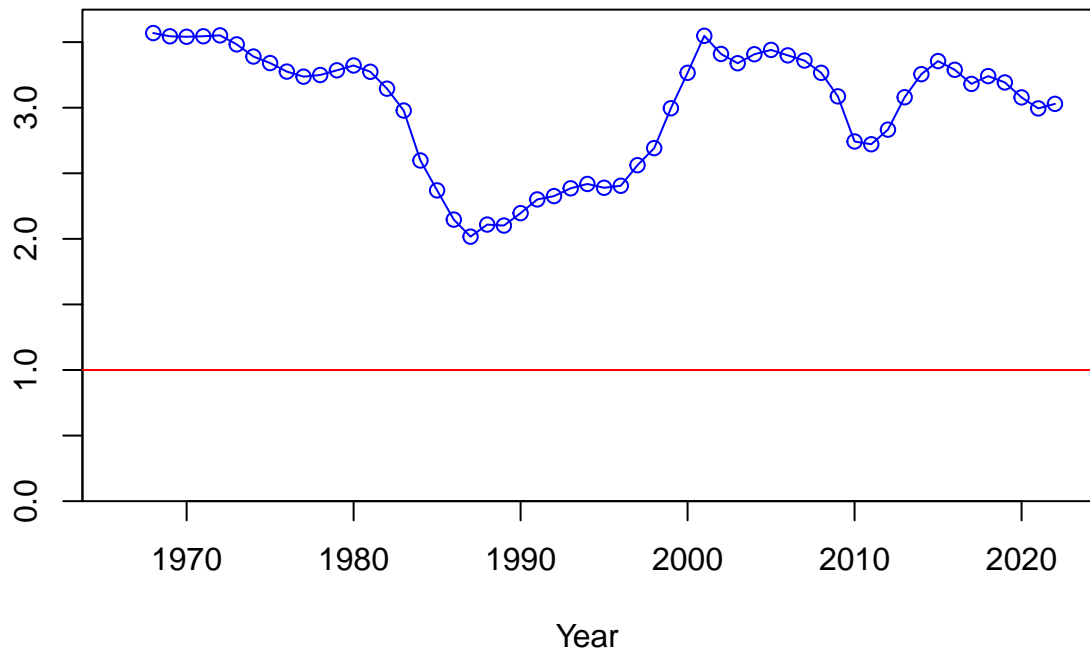
Spawning biomass (mt)



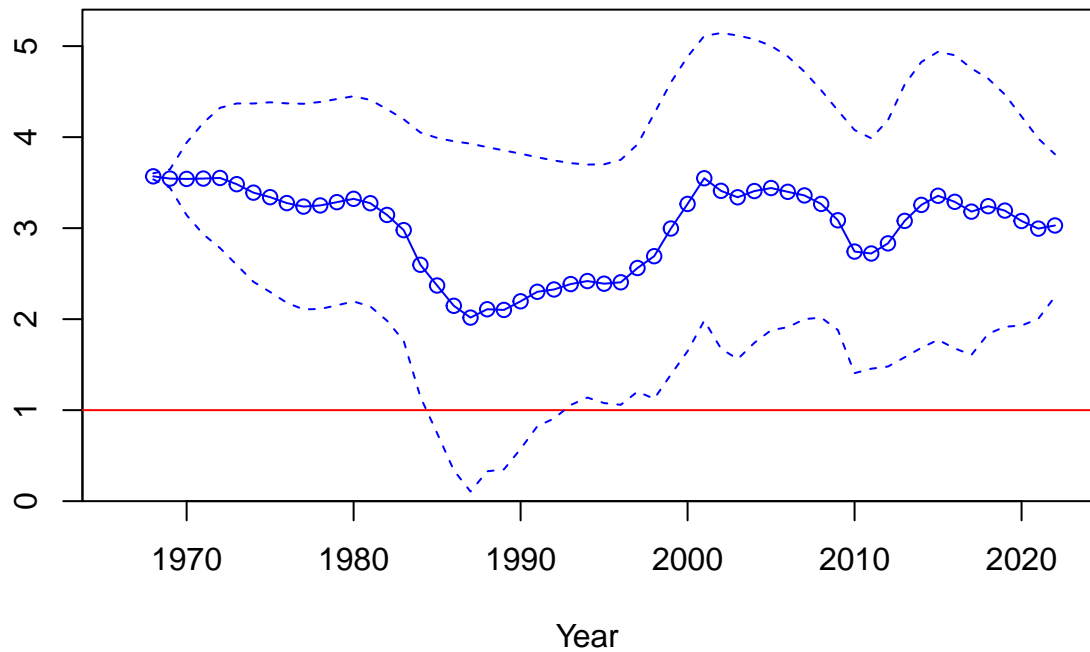
Spawning biomass (mt)

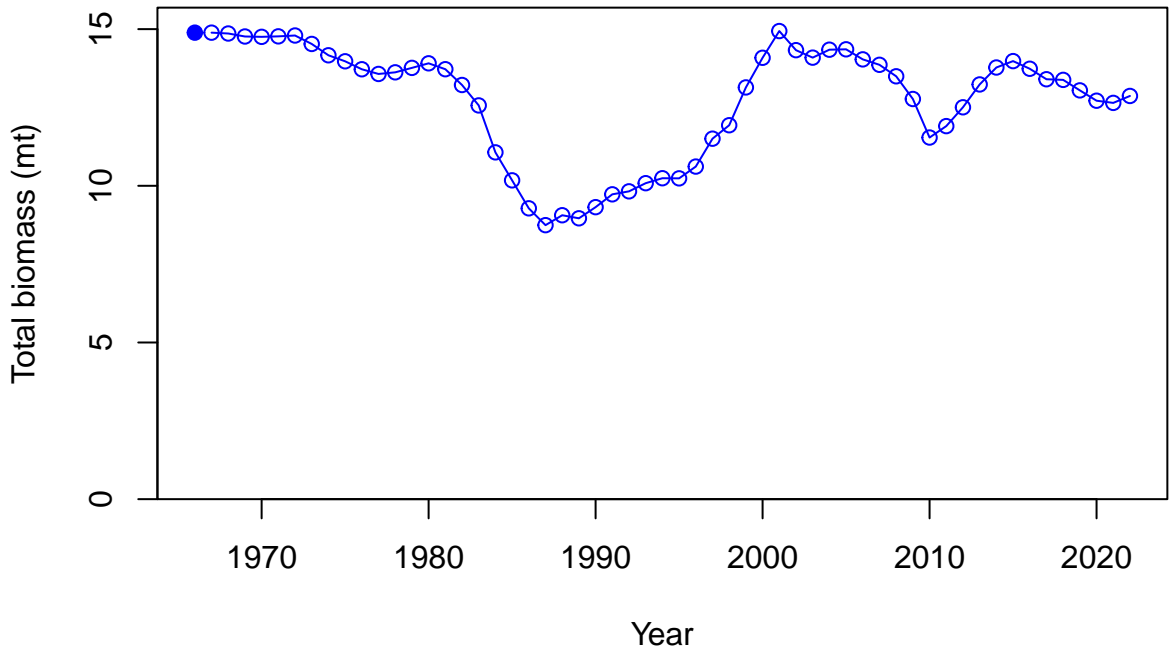


Relative spawning biomass: B/B_{MSY}

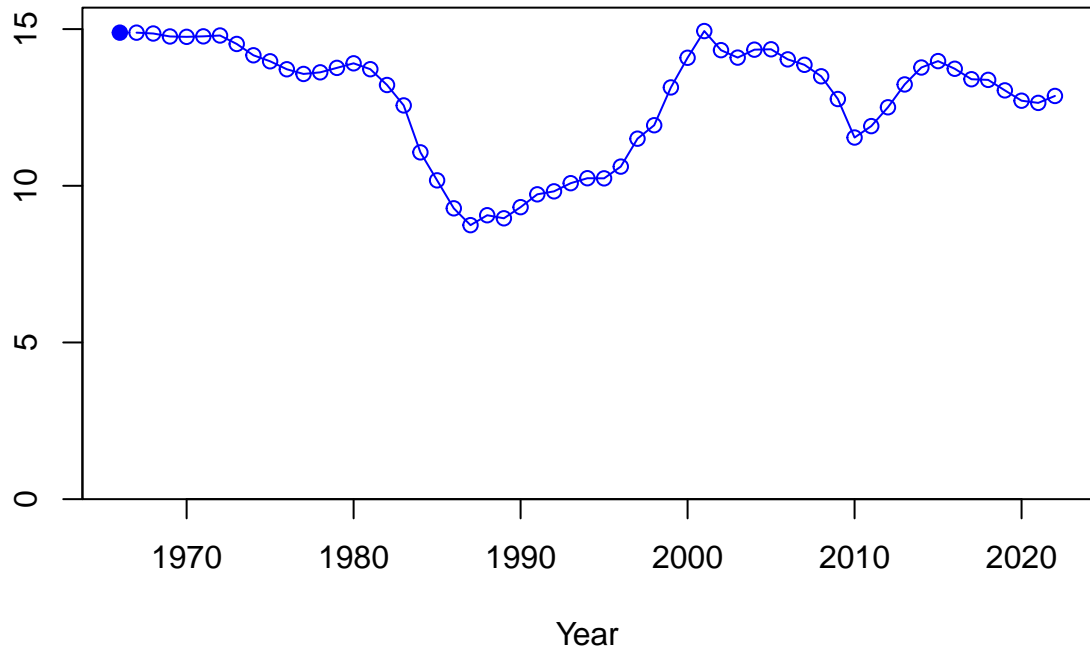


Relative spawning biomass: B/B_{MSY}

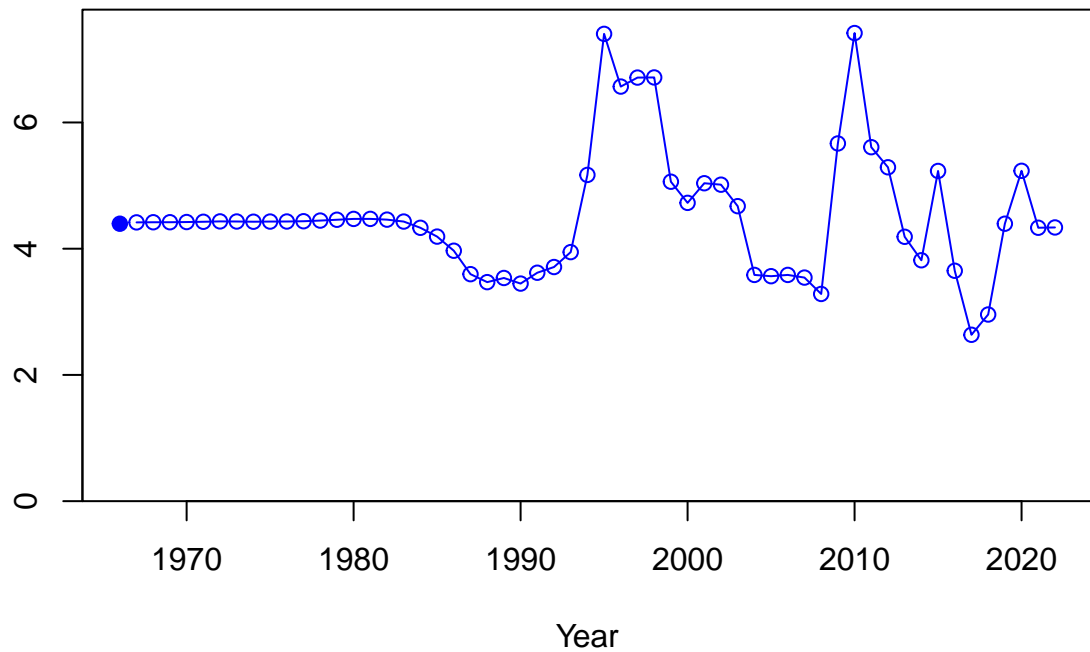




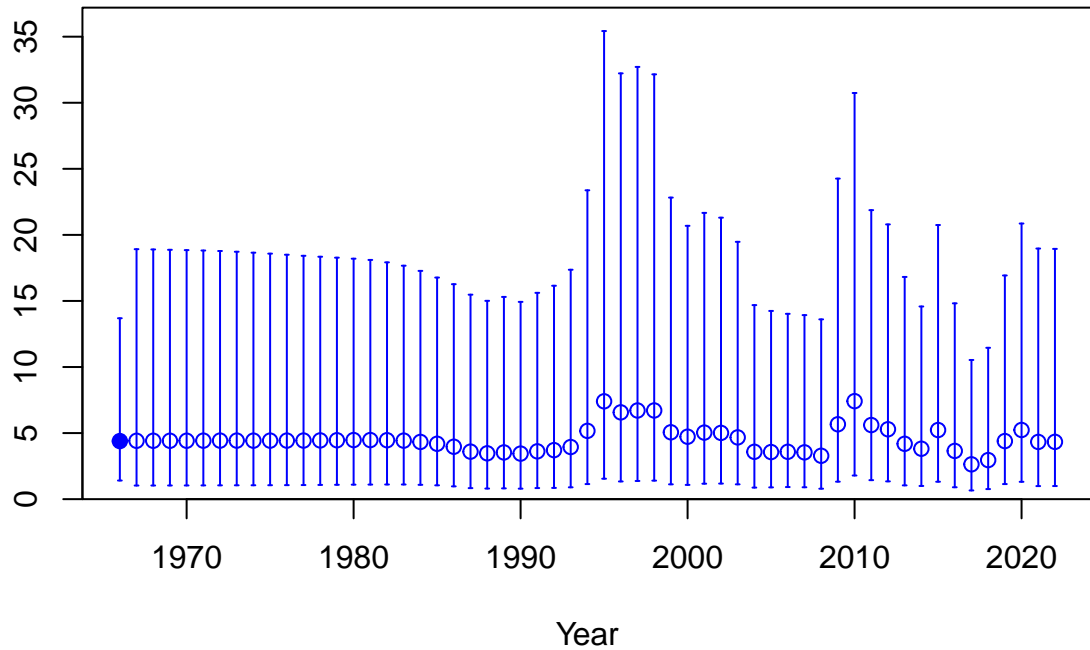
Summary biomass (mt)



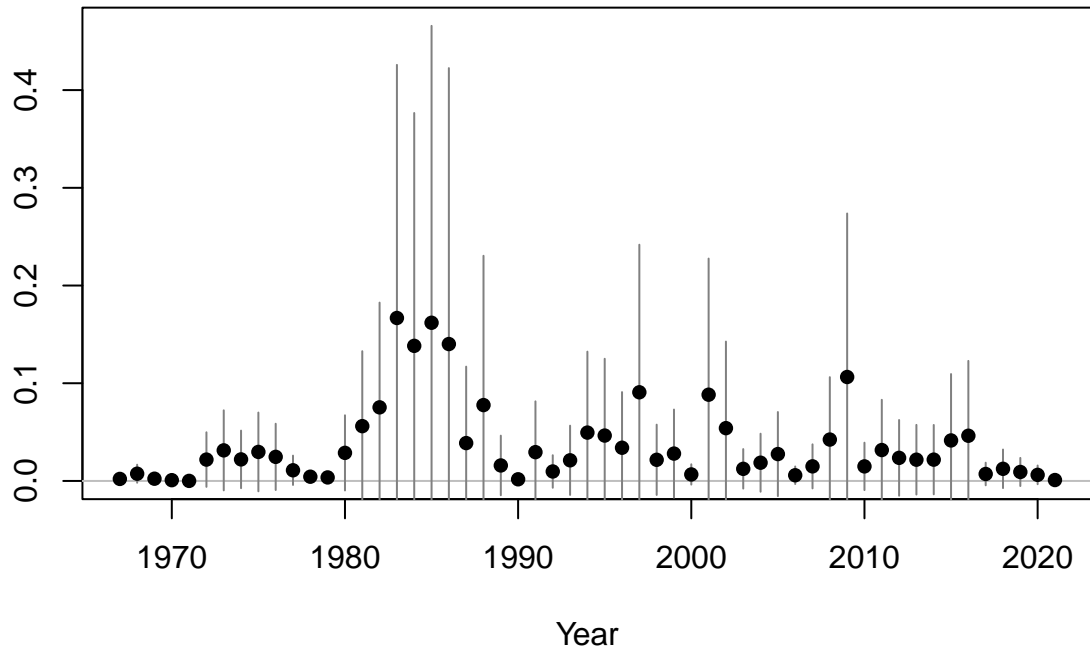
Age-0 recruits (1,000s)

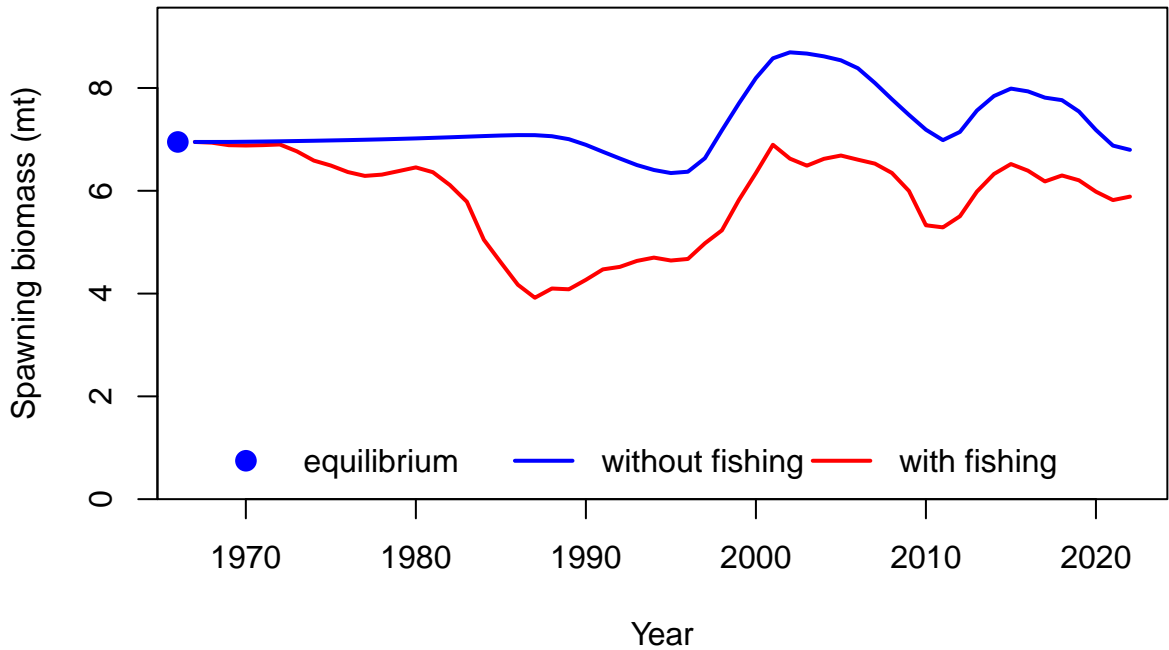


Age-0 recruits (1,000s)

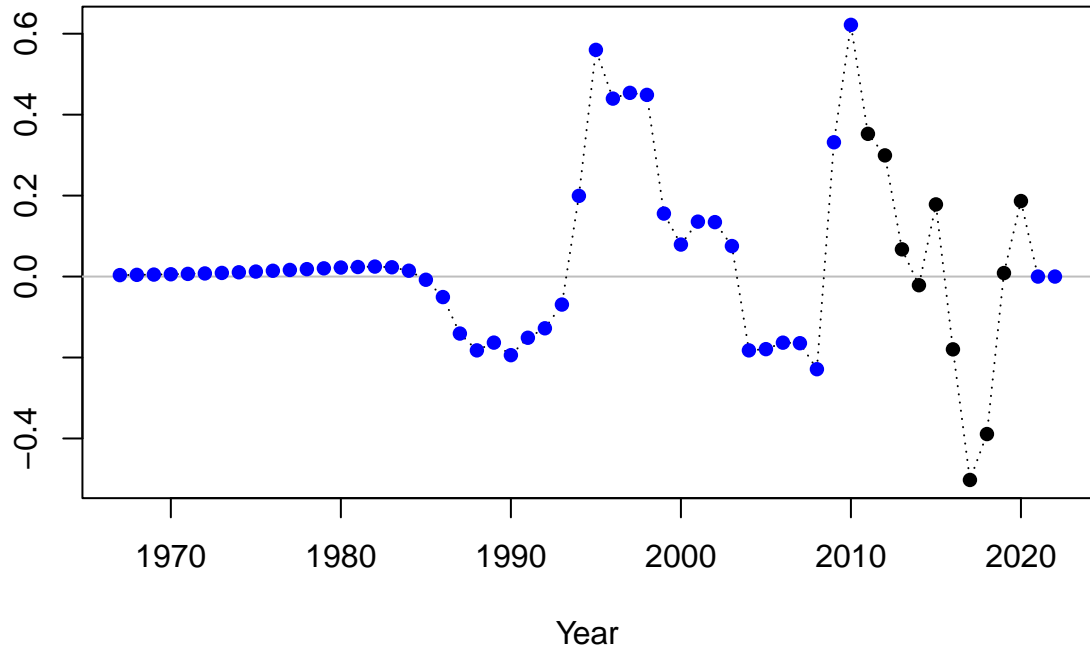


Summary Fishing Mortality

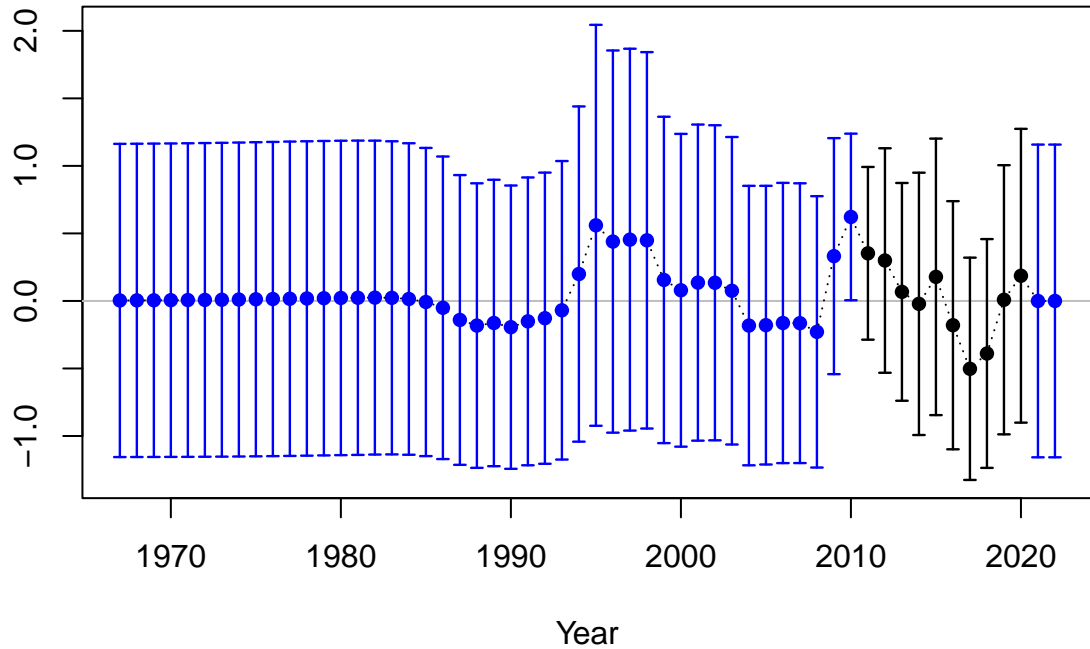




Log recruitment deviation

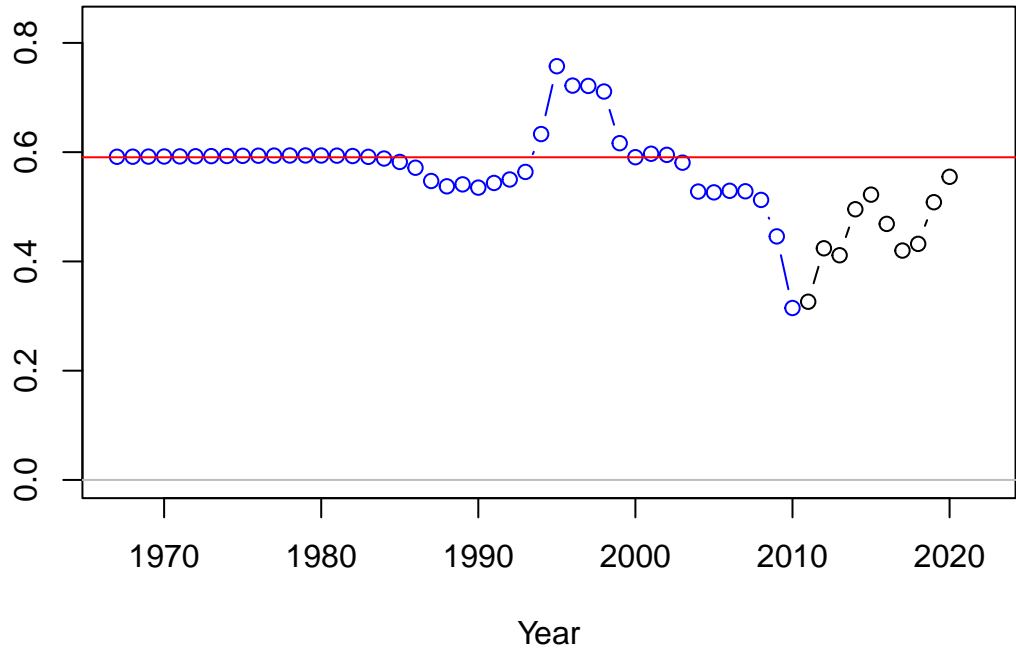


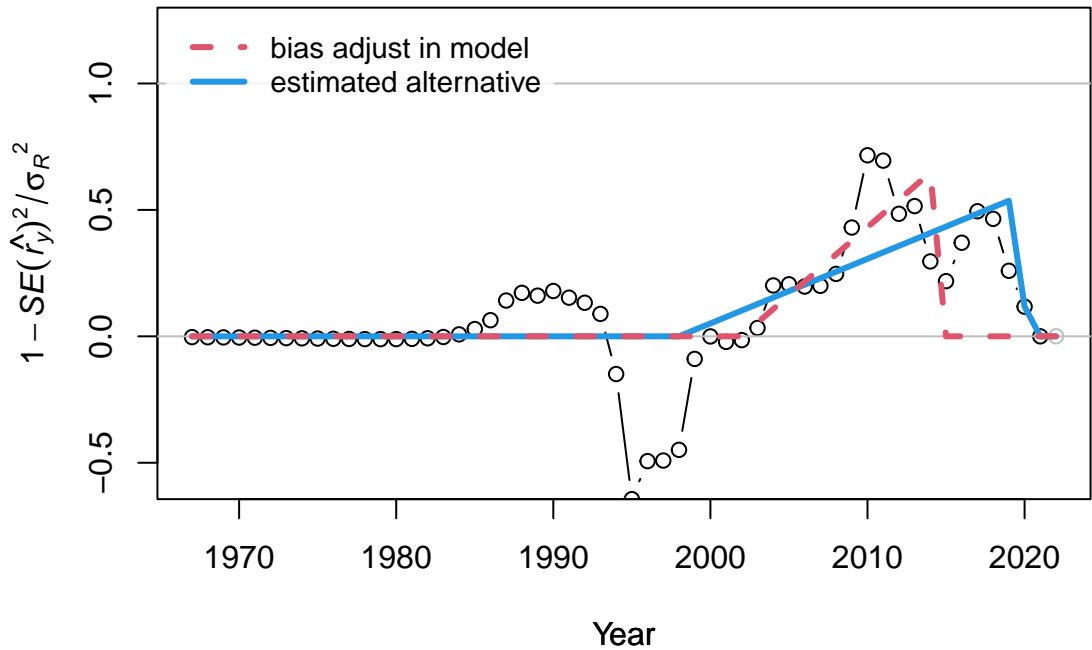
Log recruitment deviation

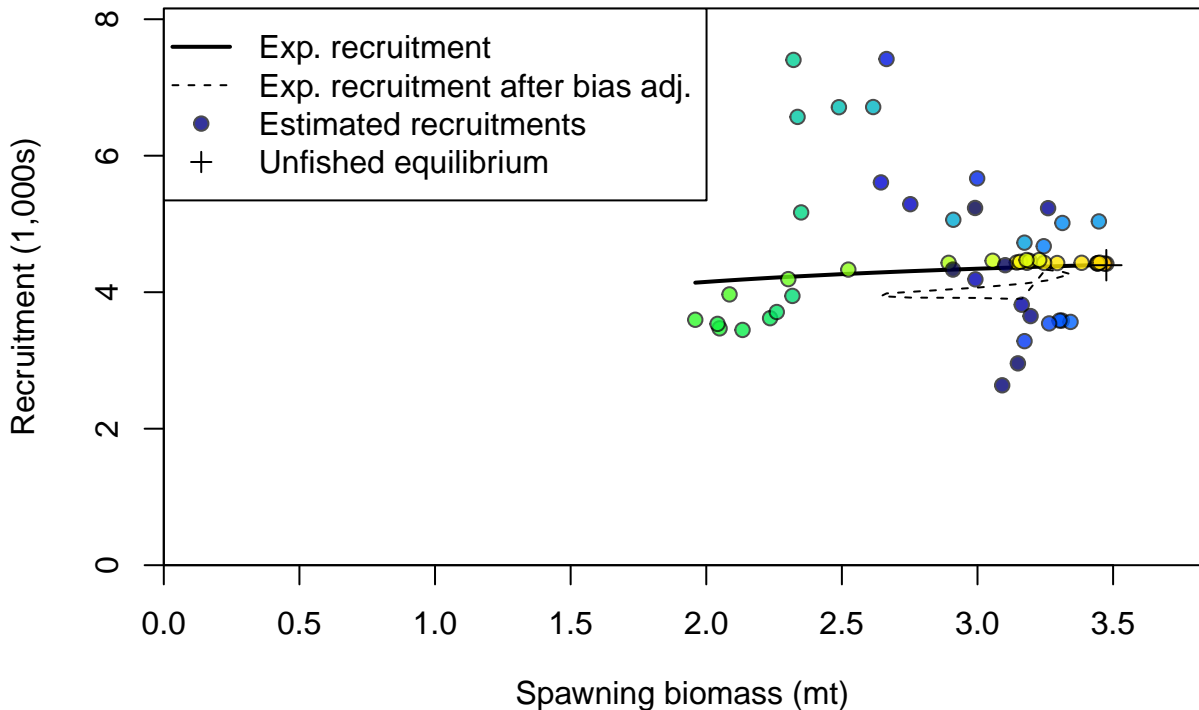


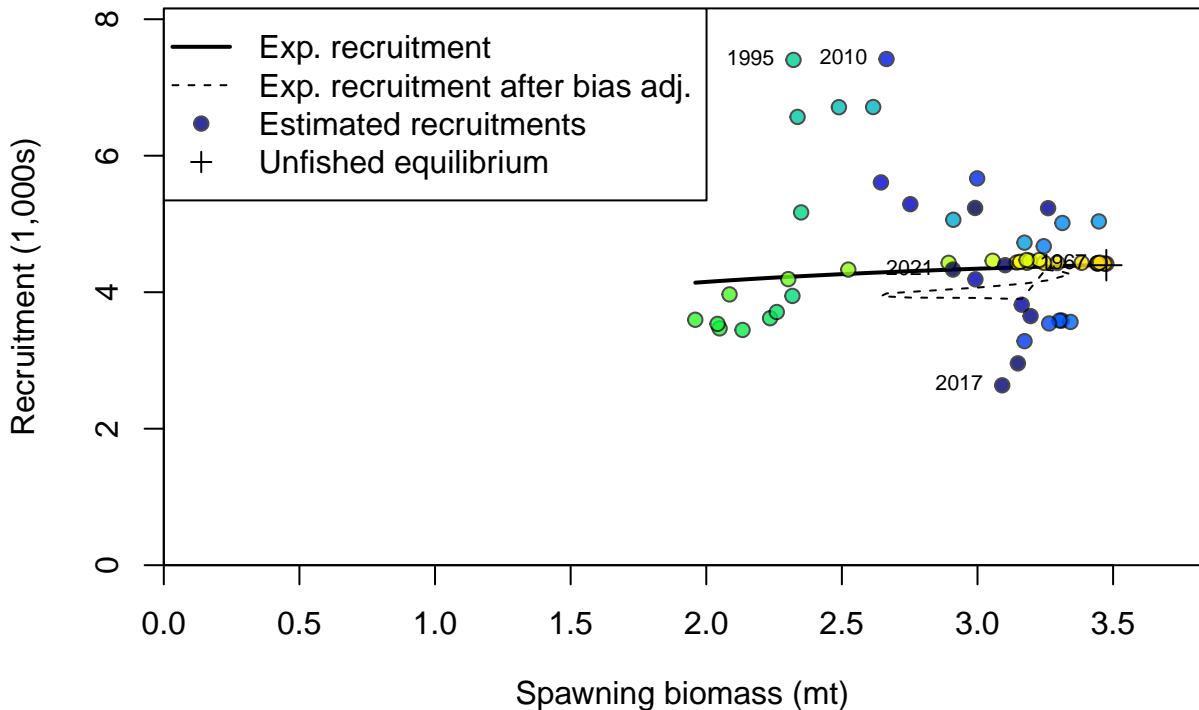
Recruitment deviation variance

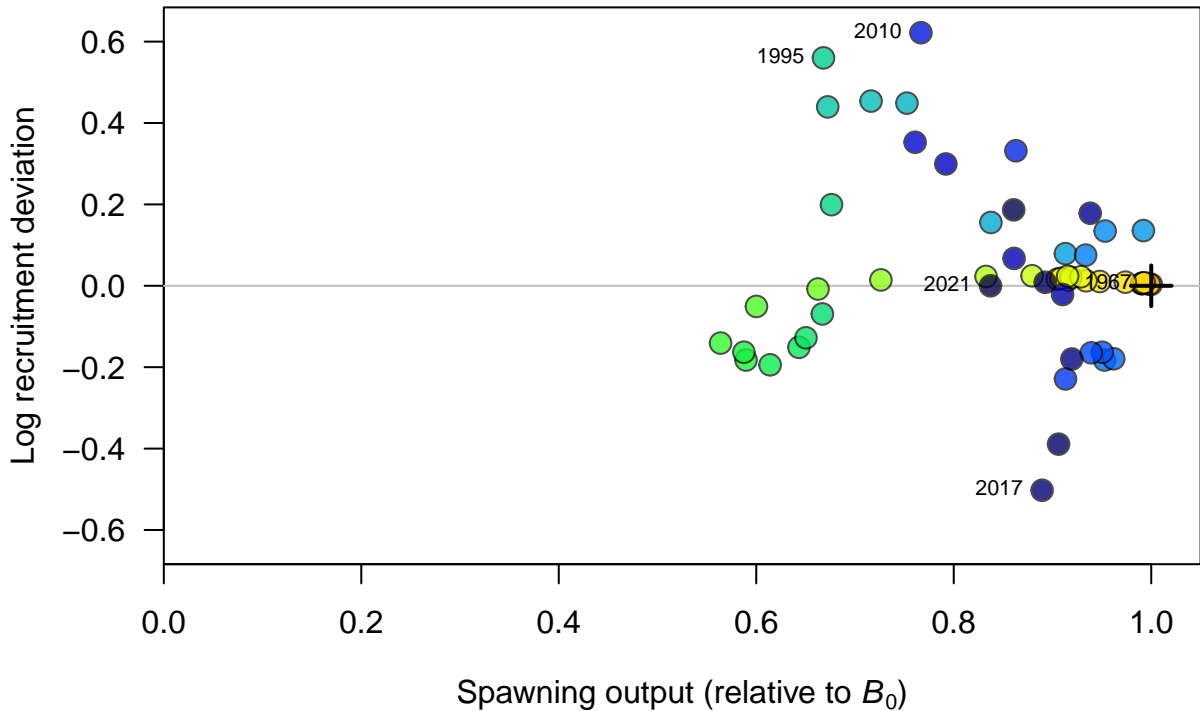
Asymptotic standard error estimate

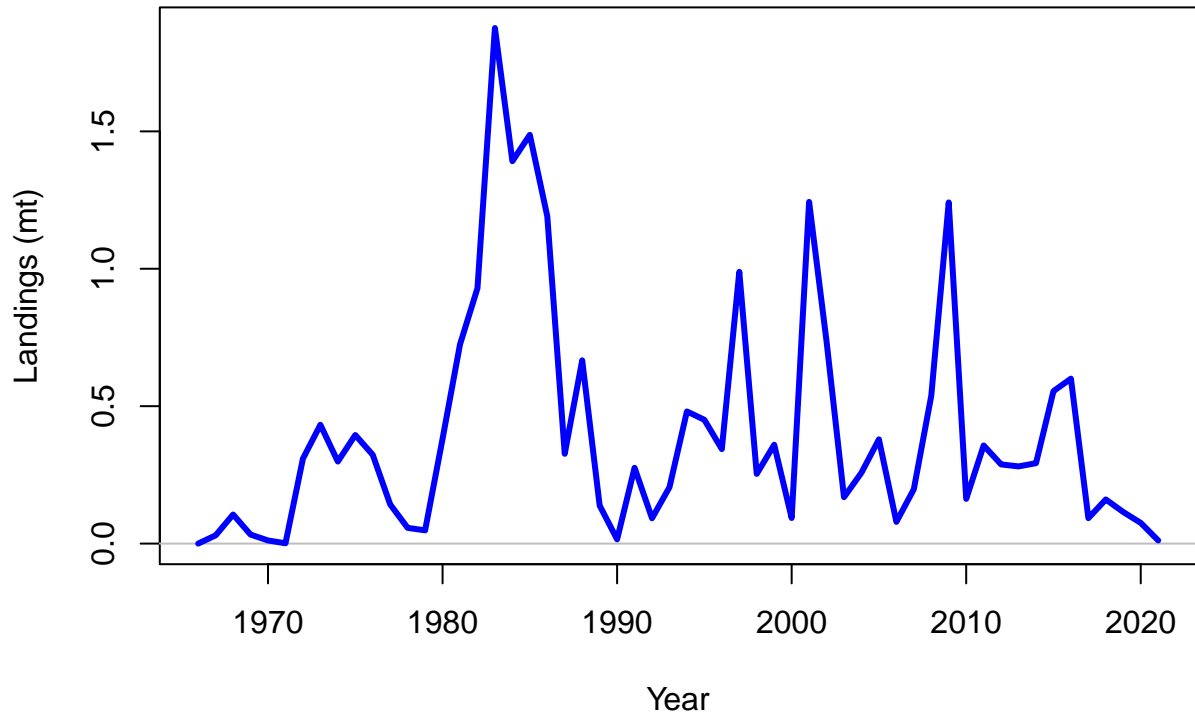


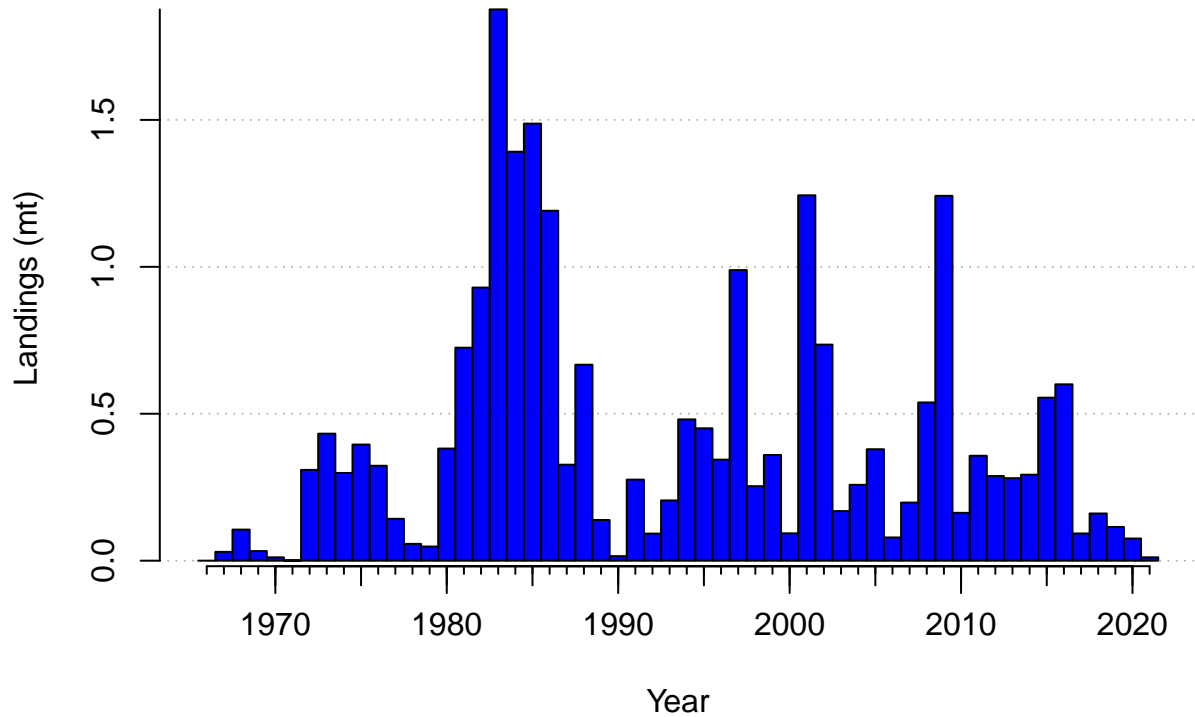


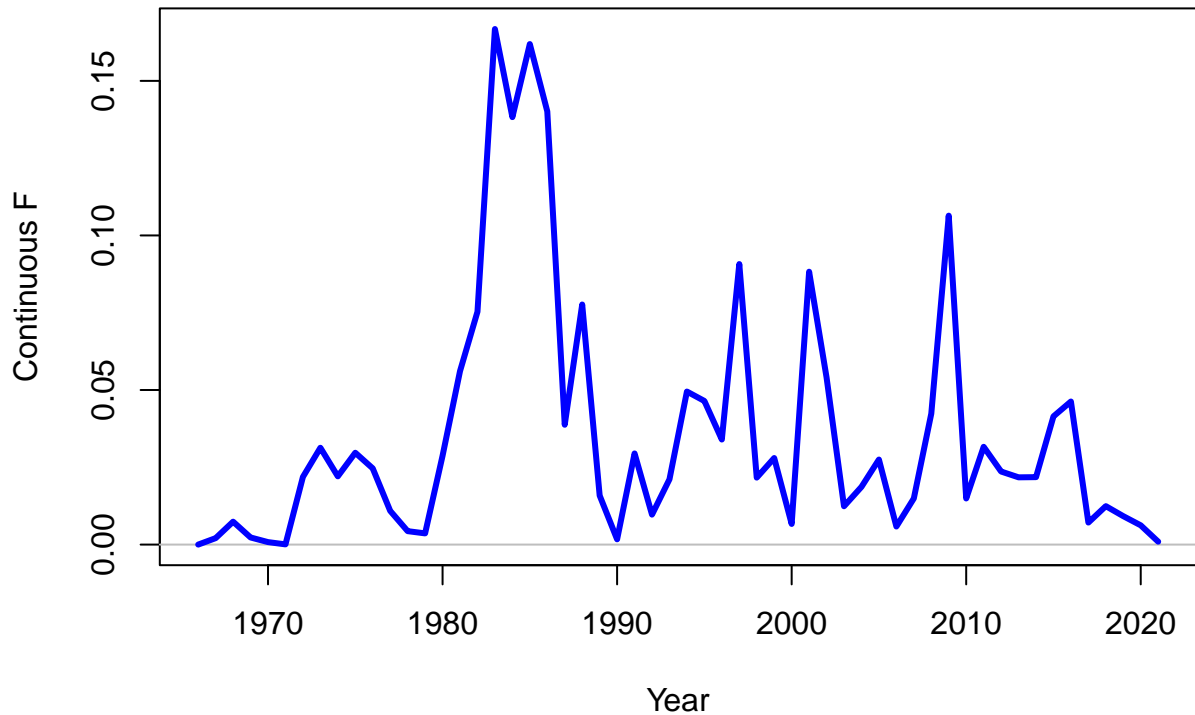




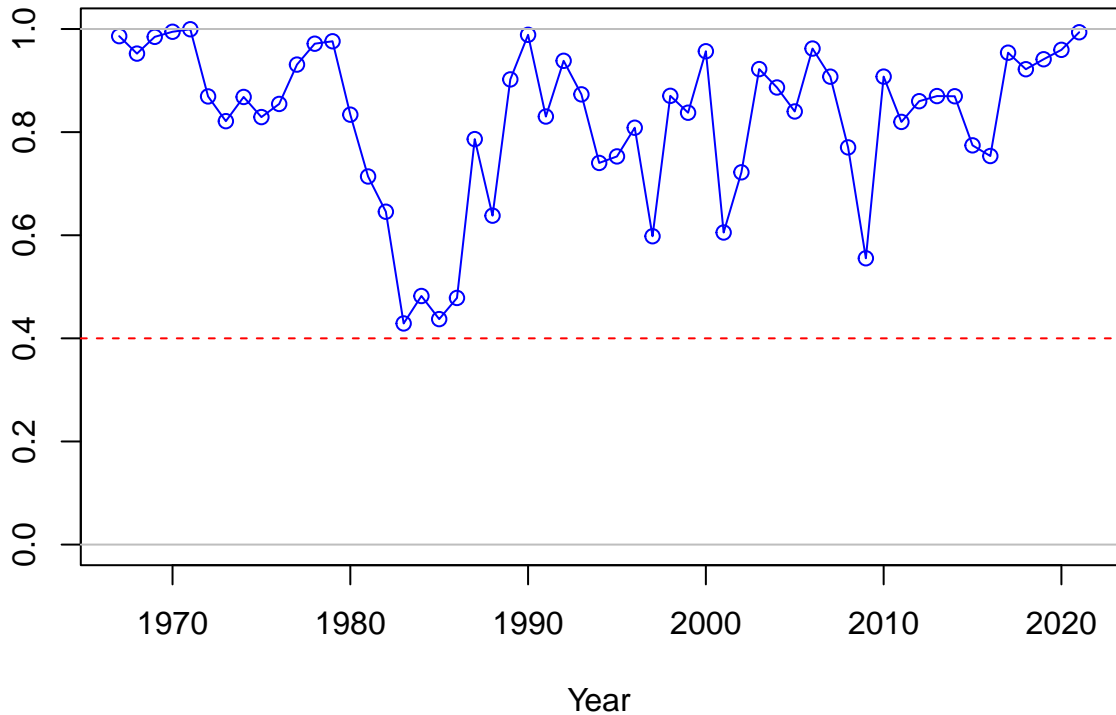




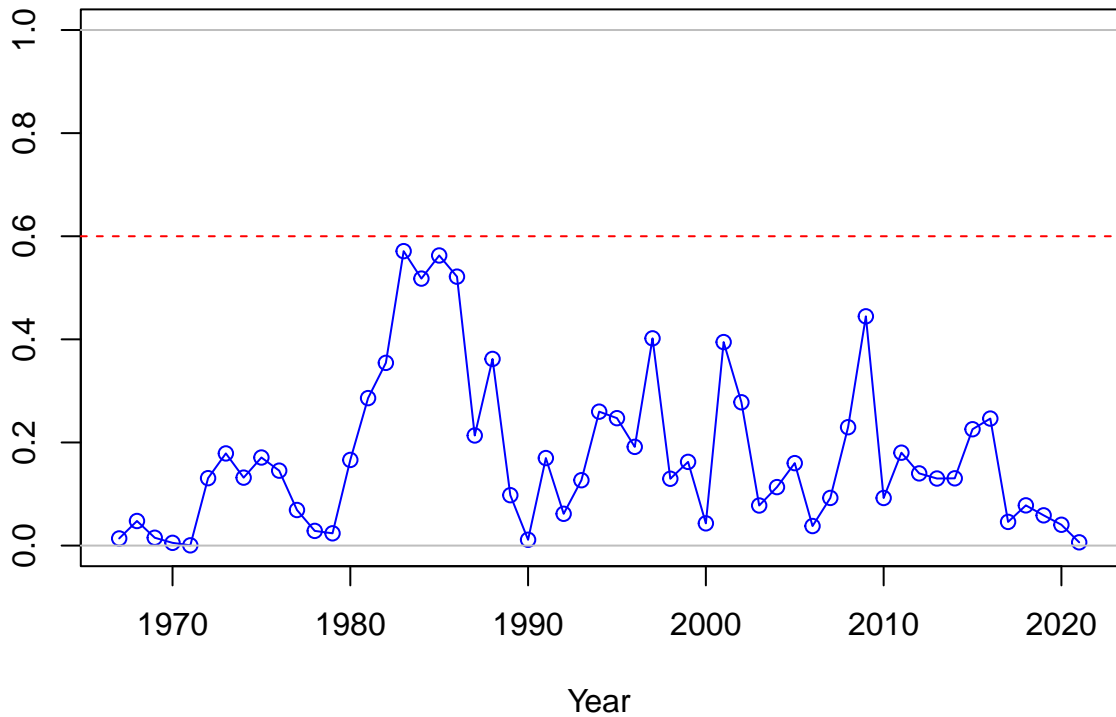




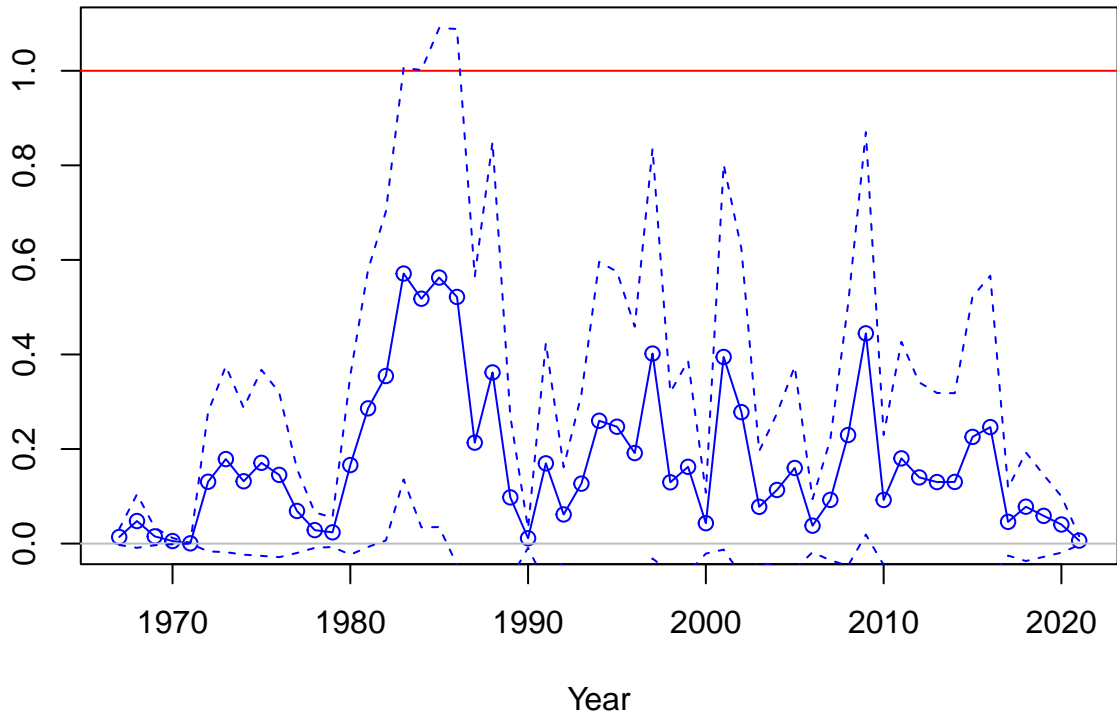
SPR



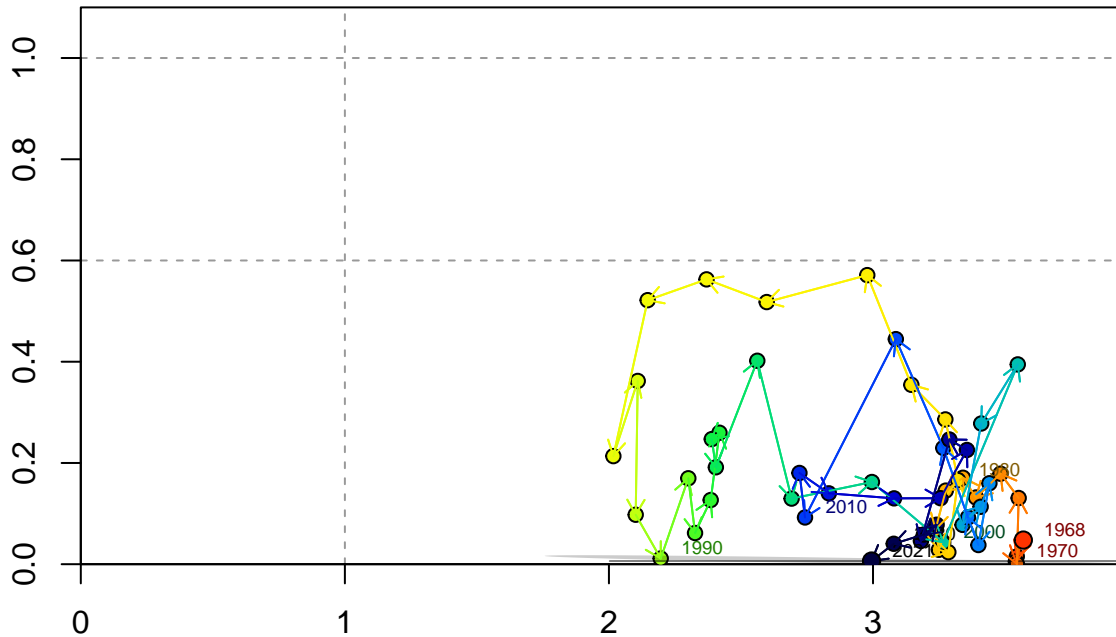
1-SPR



Fishing intensity: 1-SPR



Fishing intensity: 1-SPR



Relative spawning output: B/B_{MSY}

Index

10
8
6
4
2
0

1990

1995

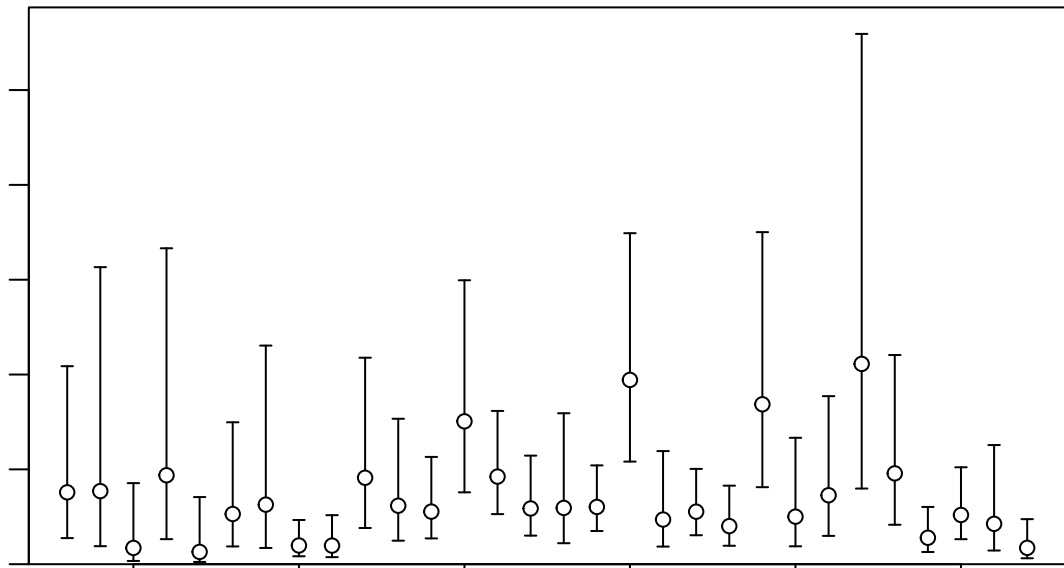
2000

2005

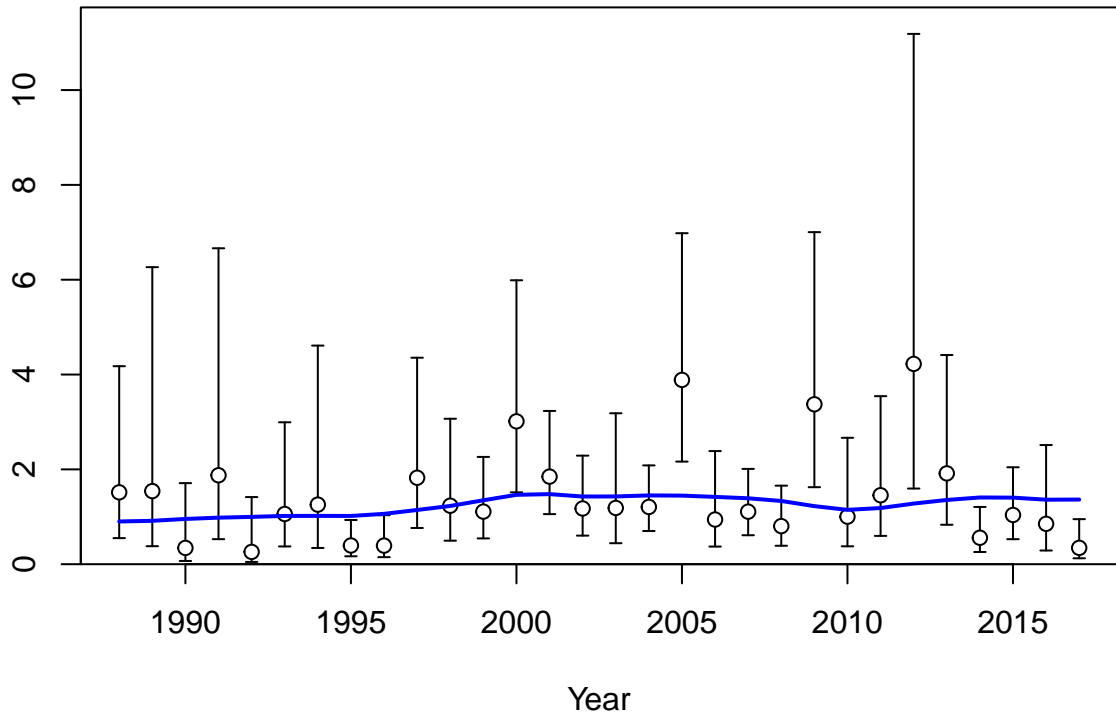
2010

2015

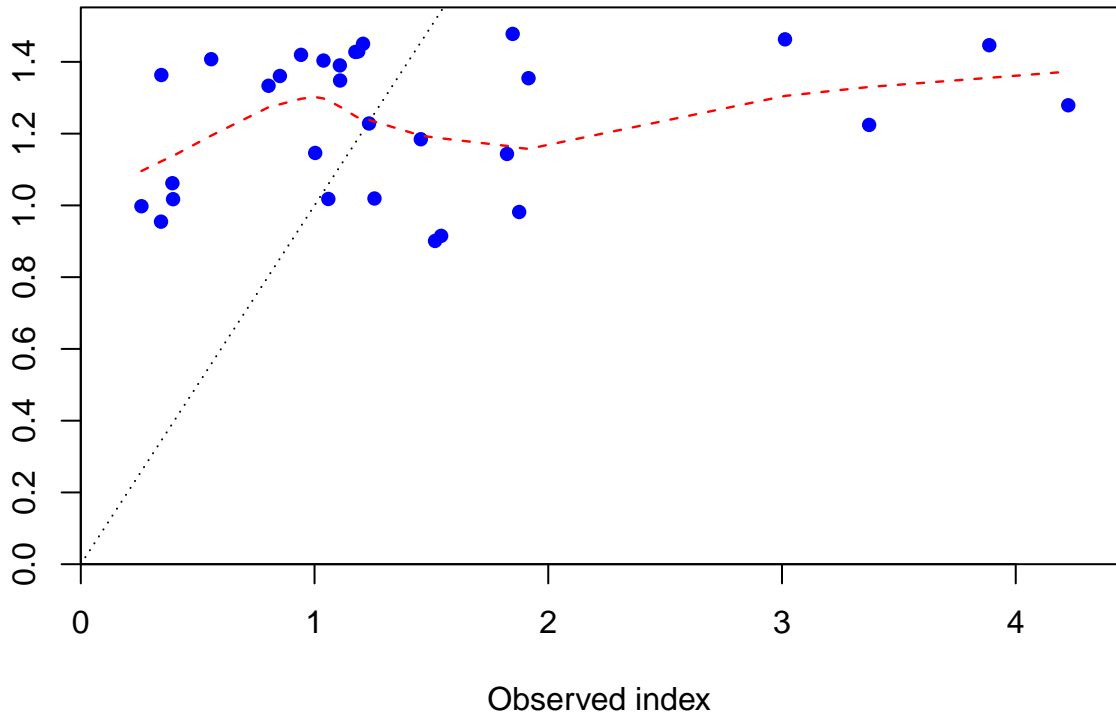
Year



Index



Expected index



Log index

2
1
0
-1
-2
-3

1990

1995

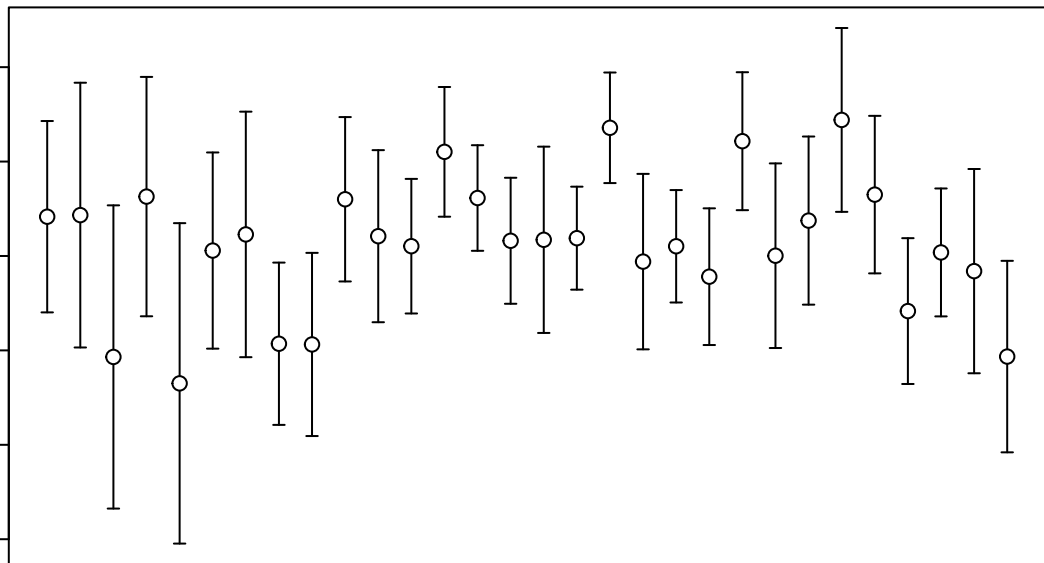
2000

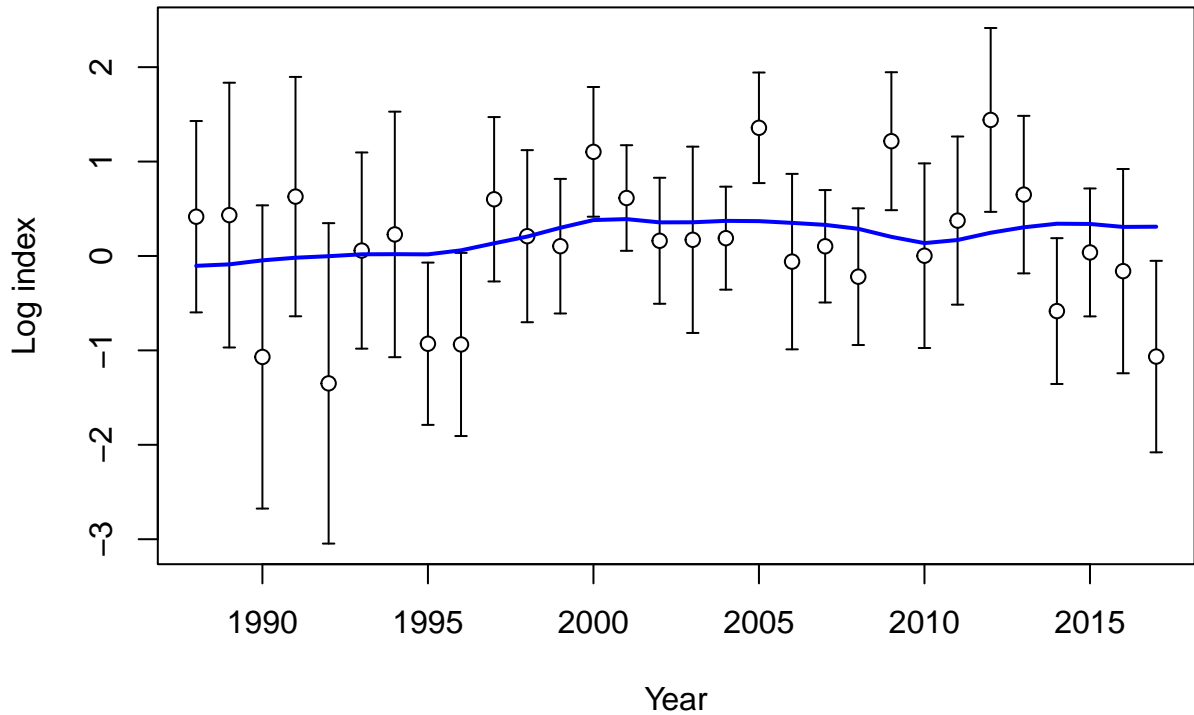
2005

2010

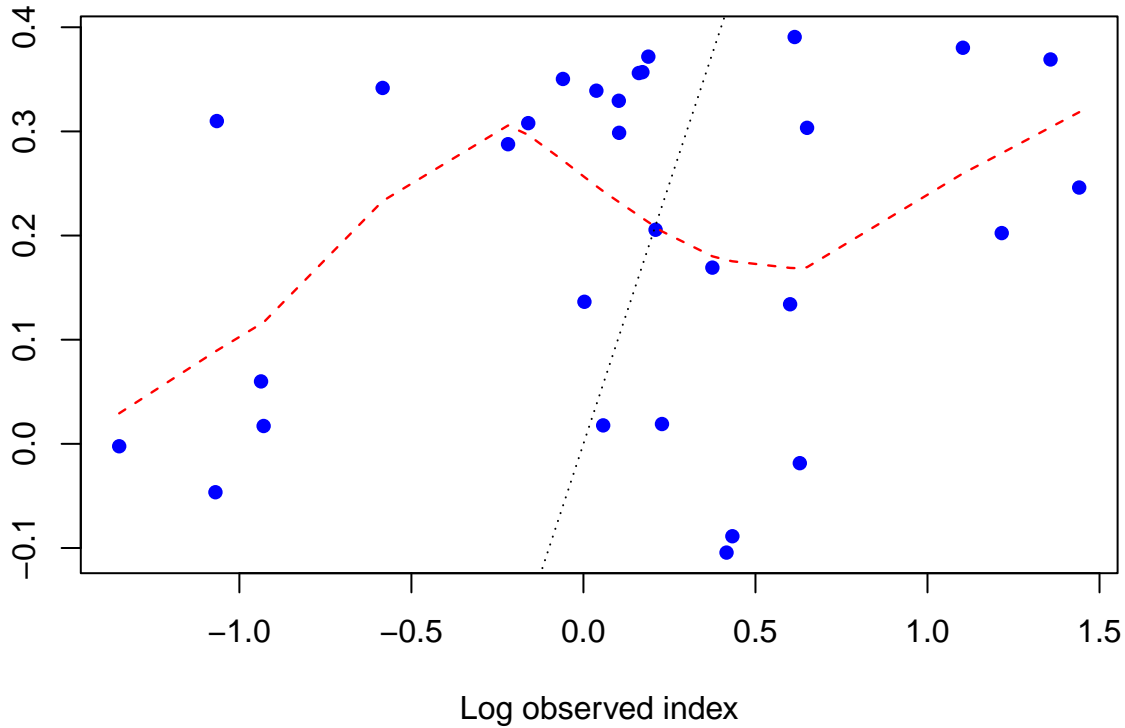
2015

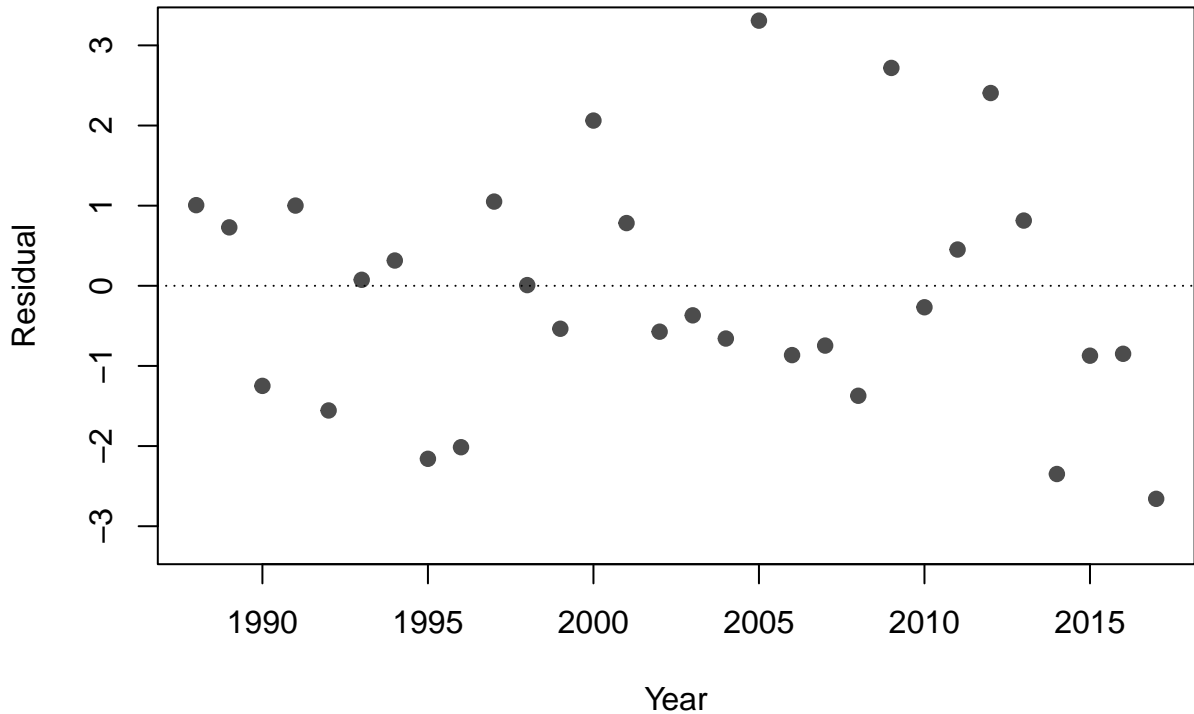
Year

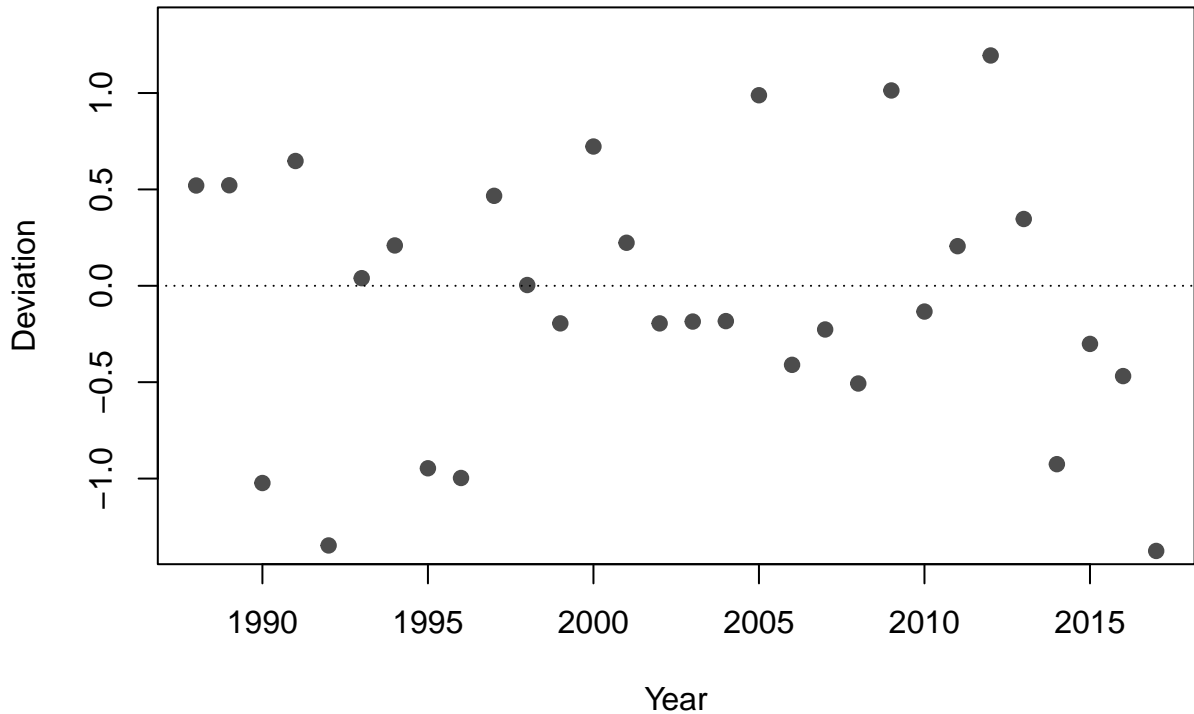


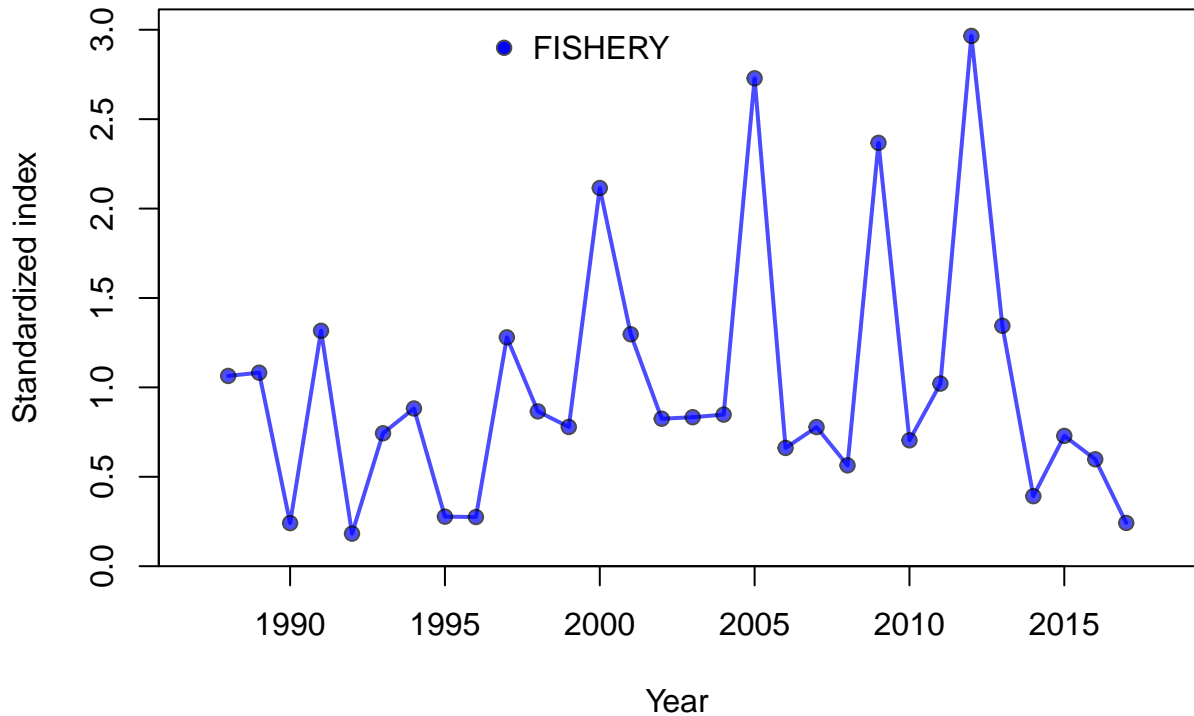


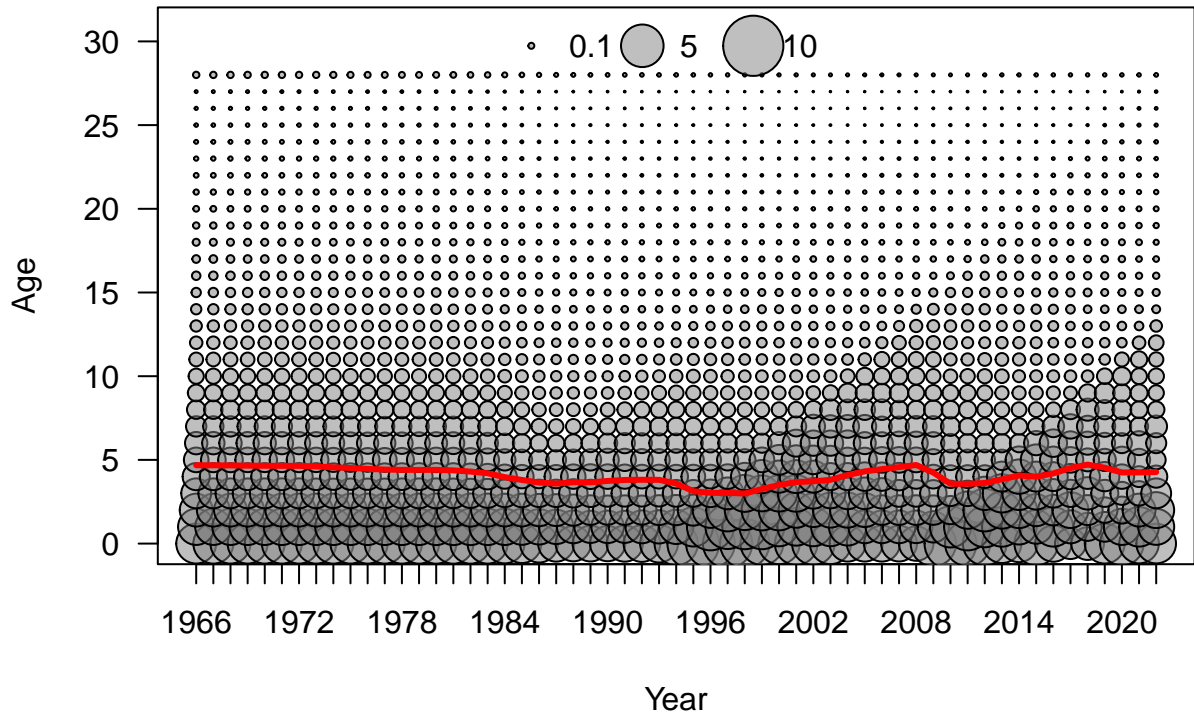
Log expected index

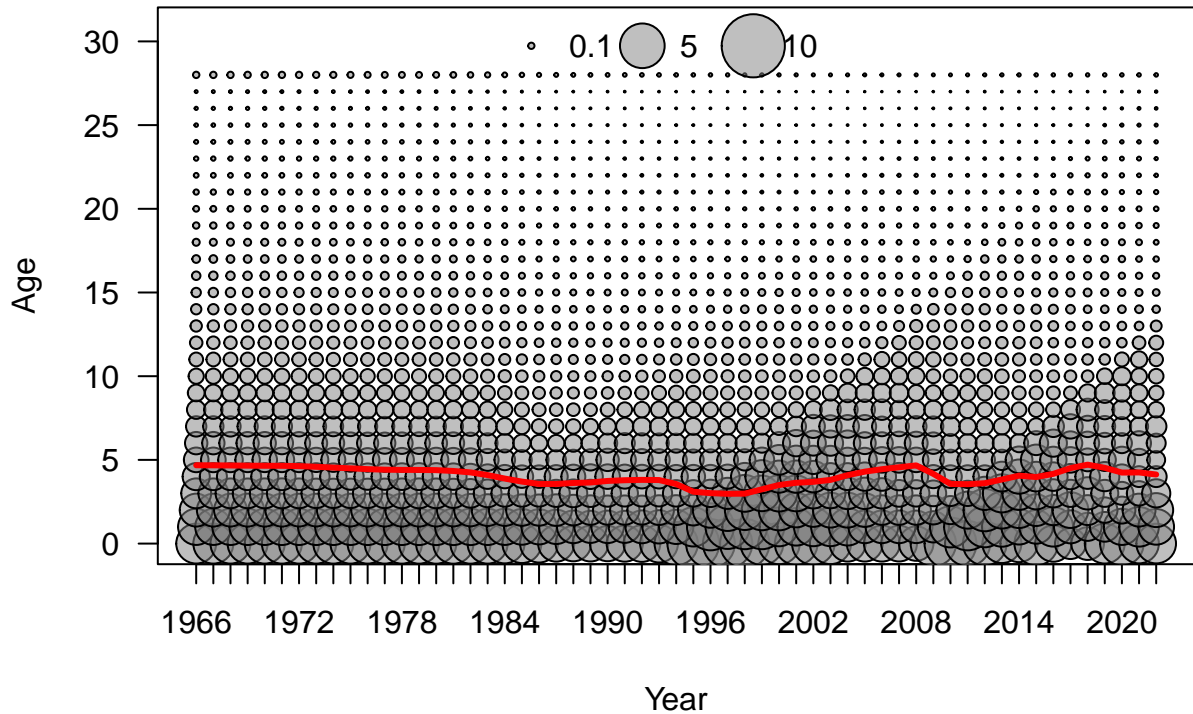


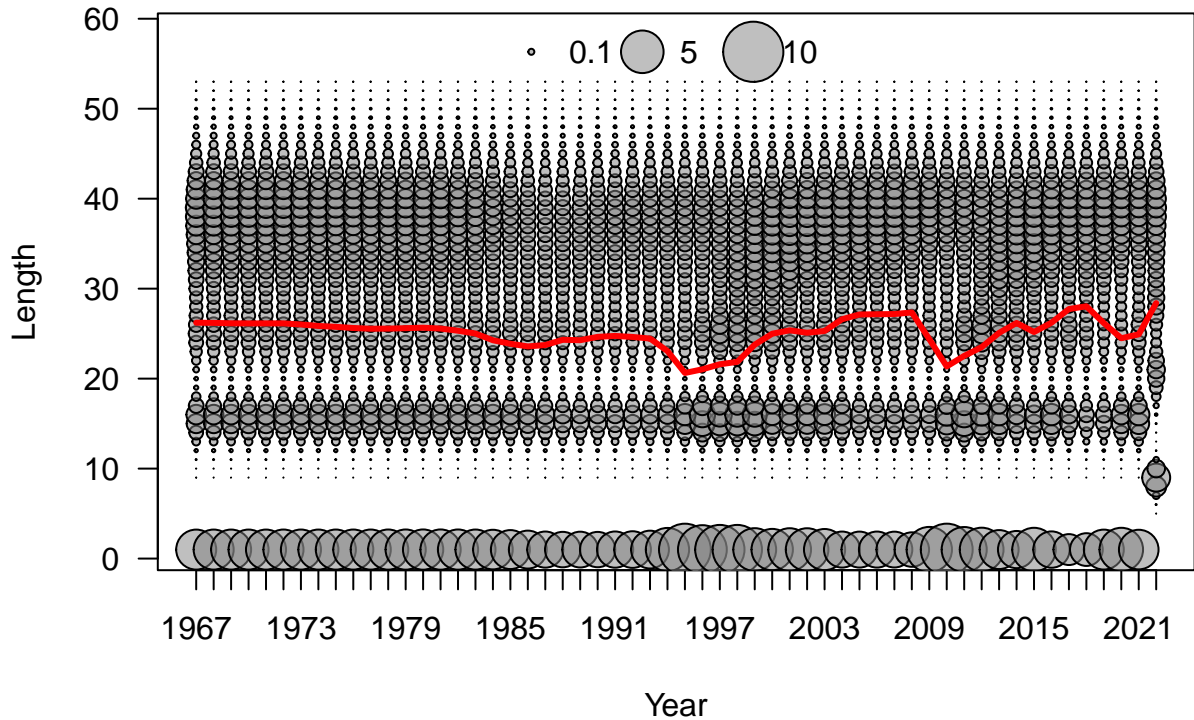


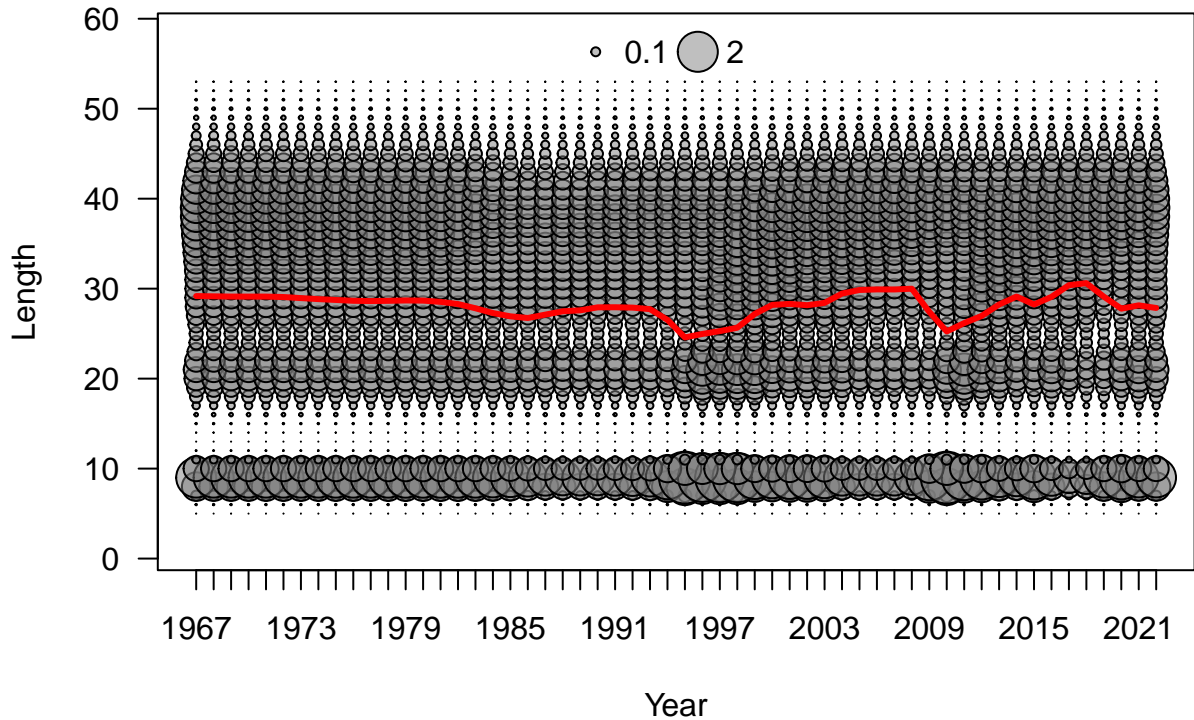


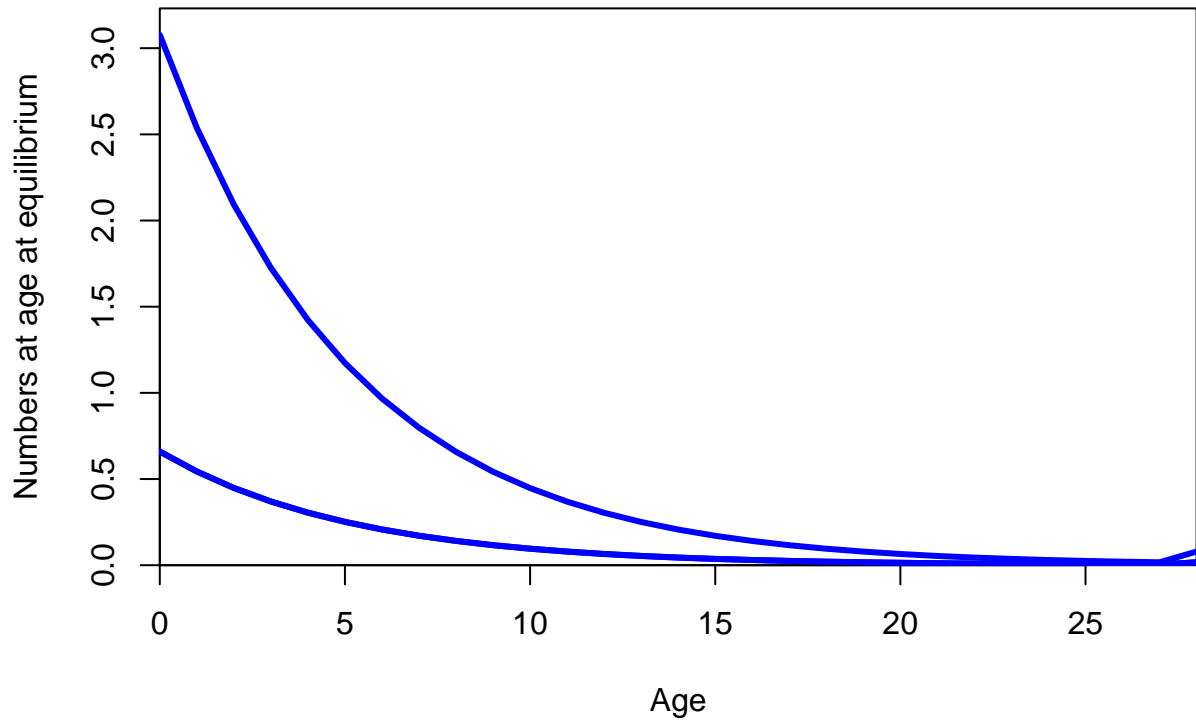


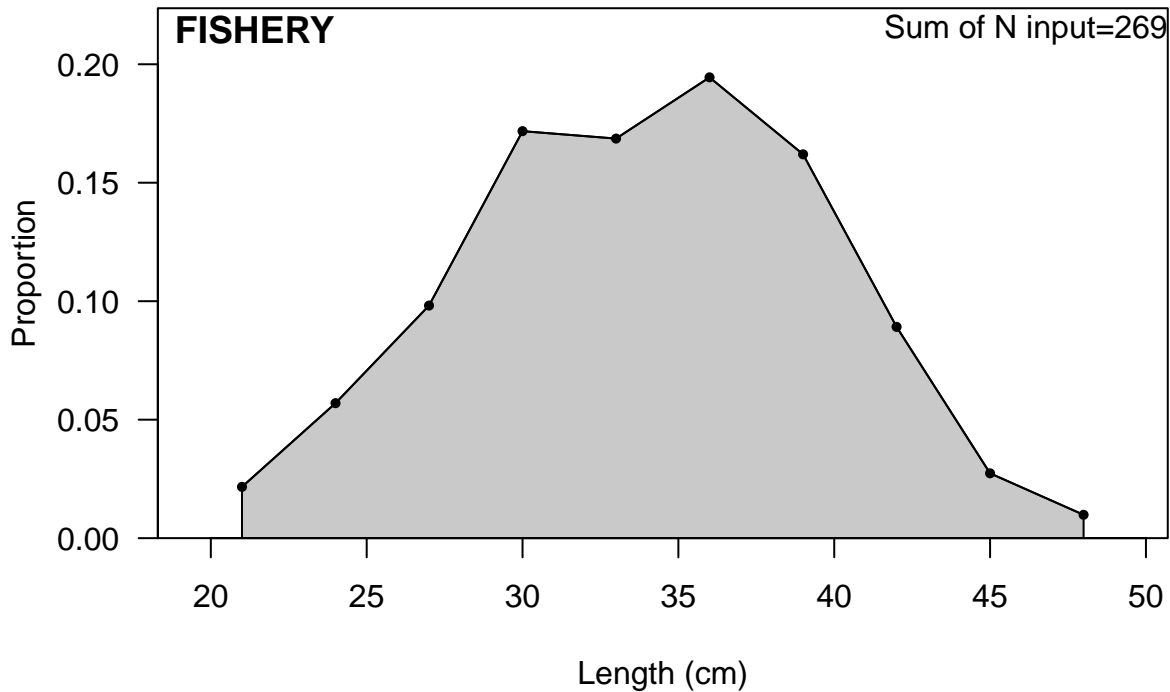


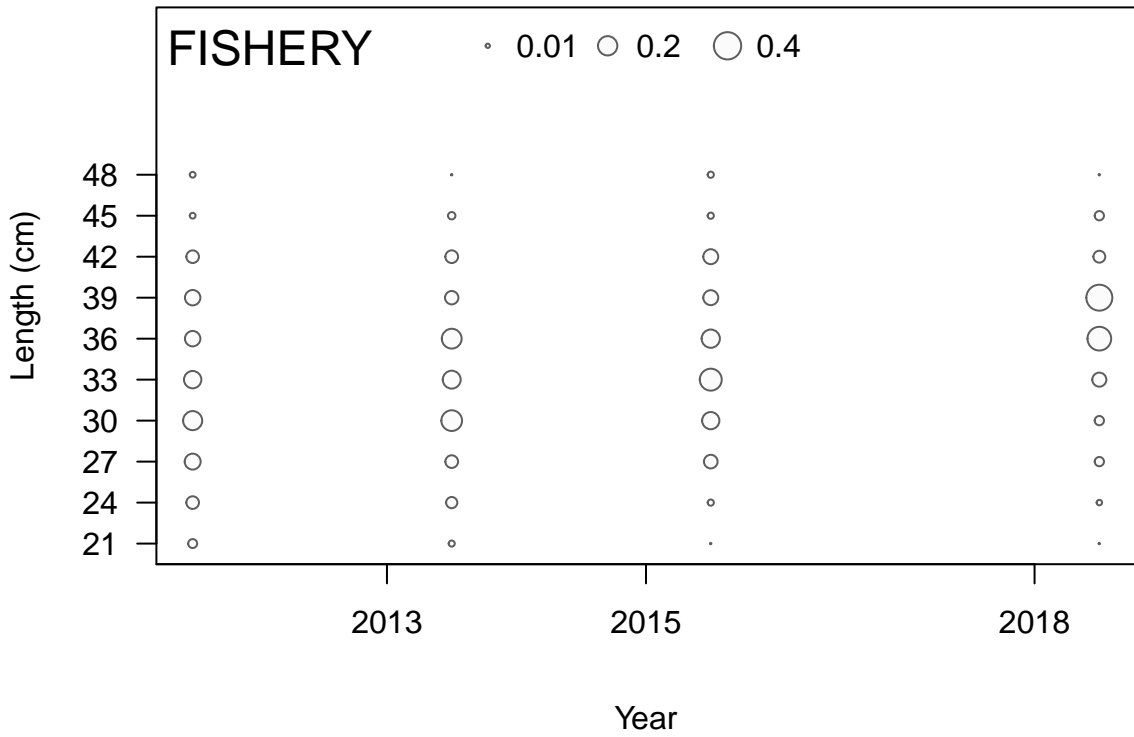


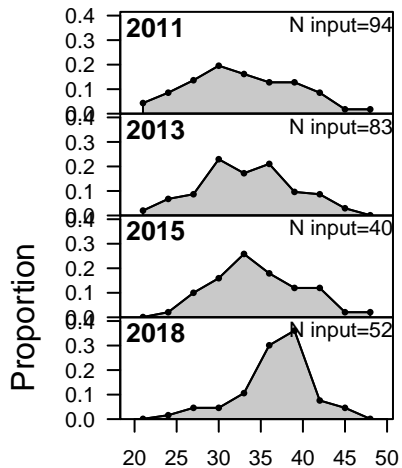




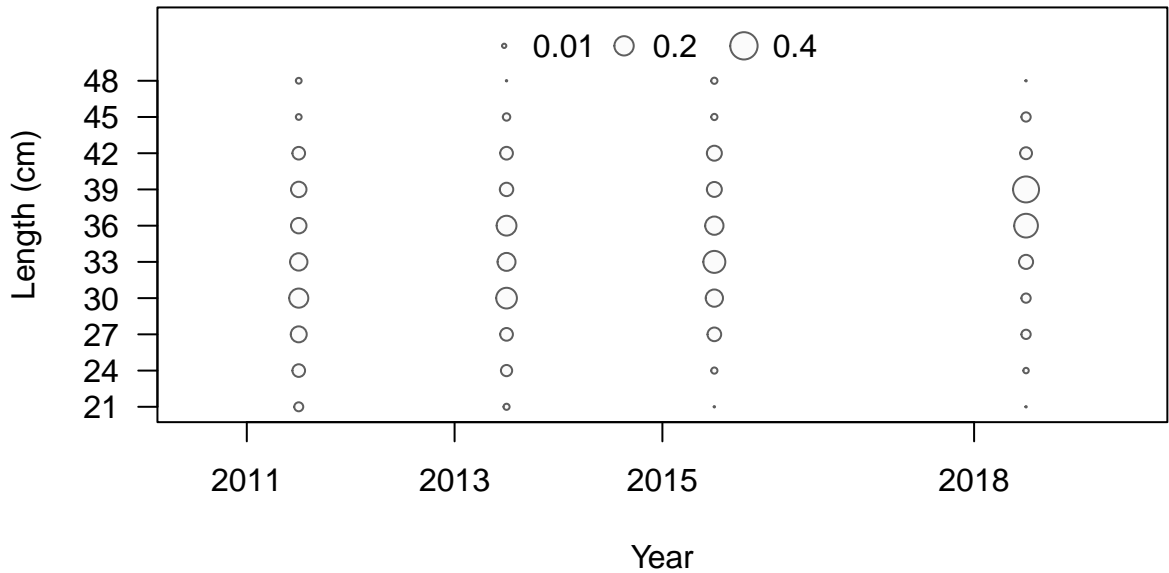




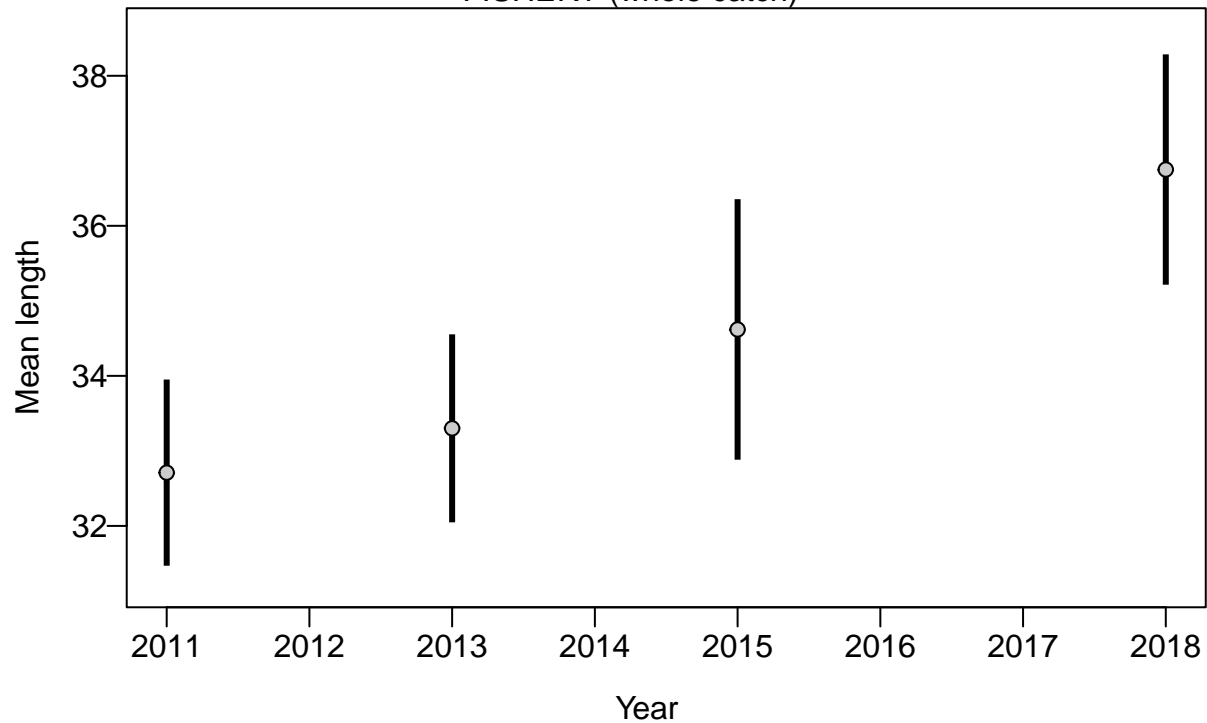


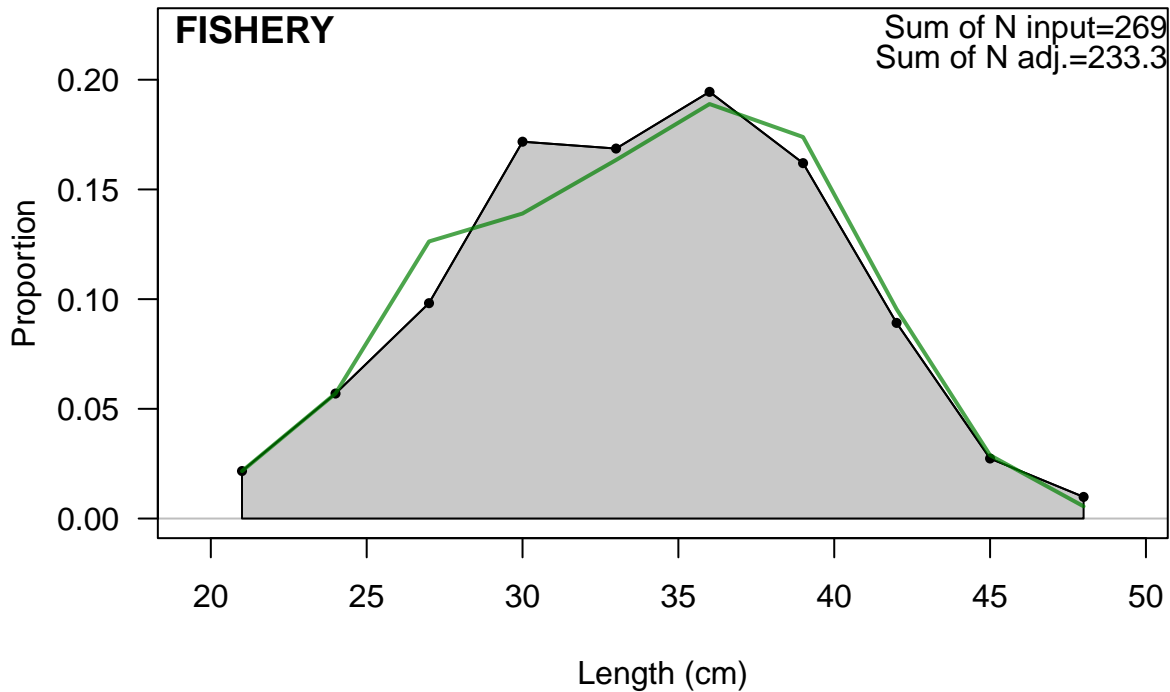


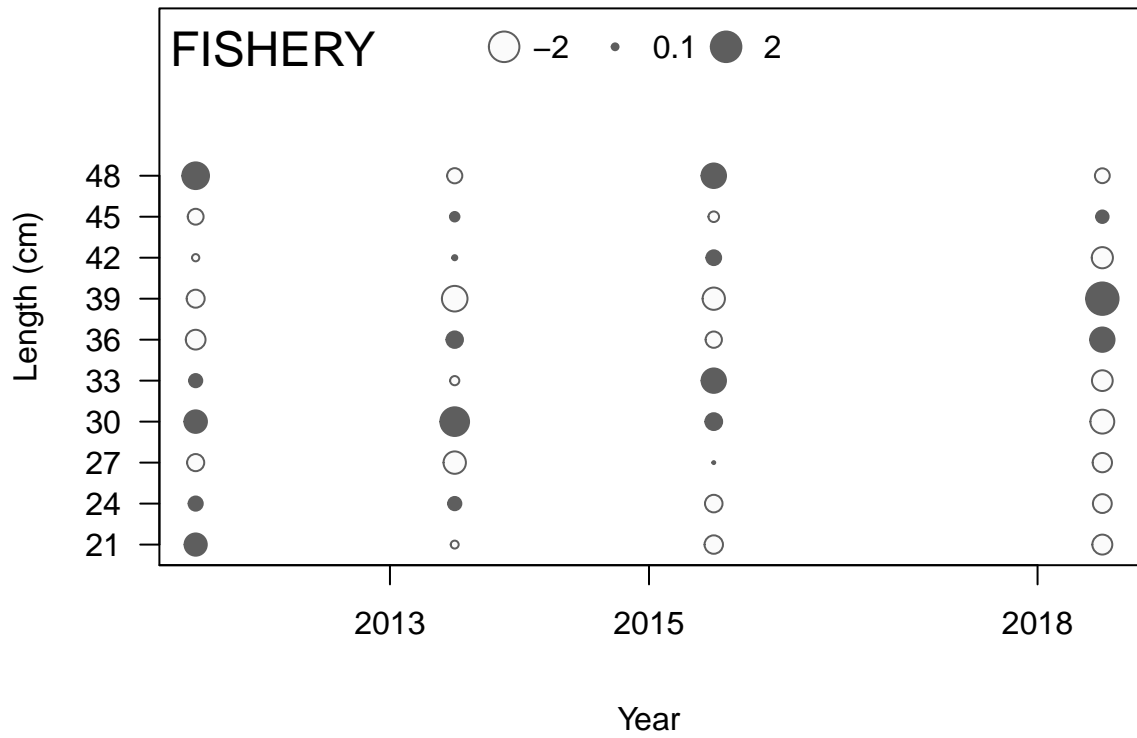
Length (cm)

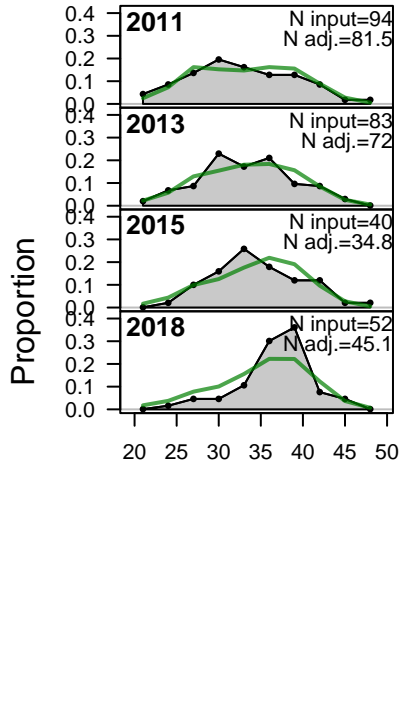


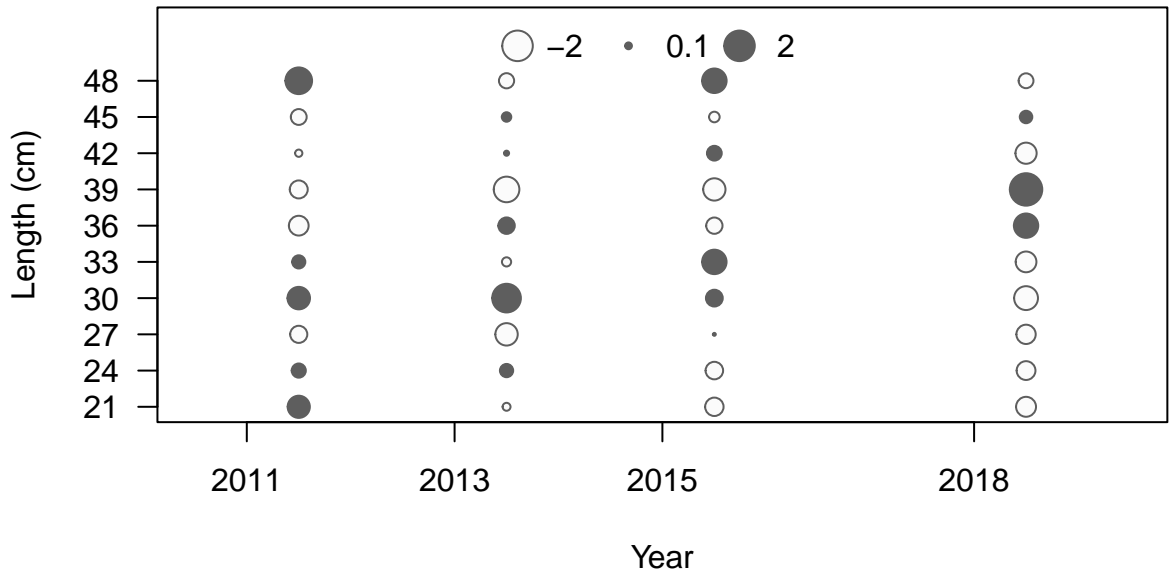
FISHERY (whole catch)



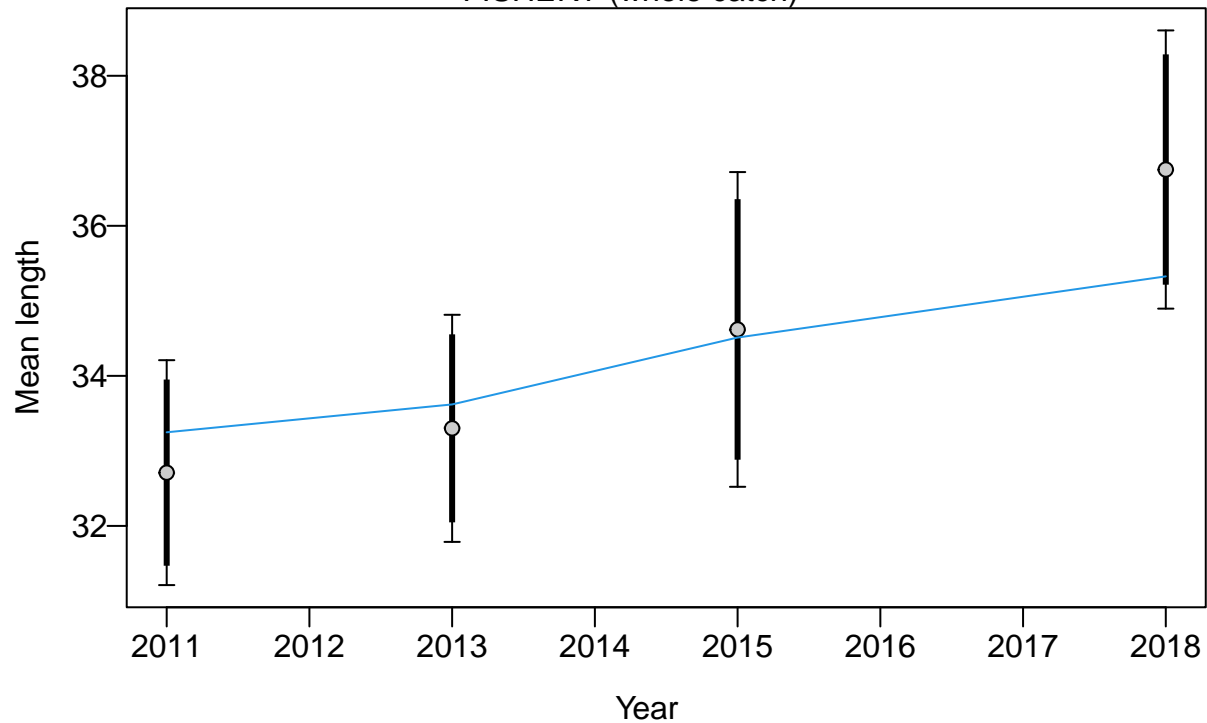


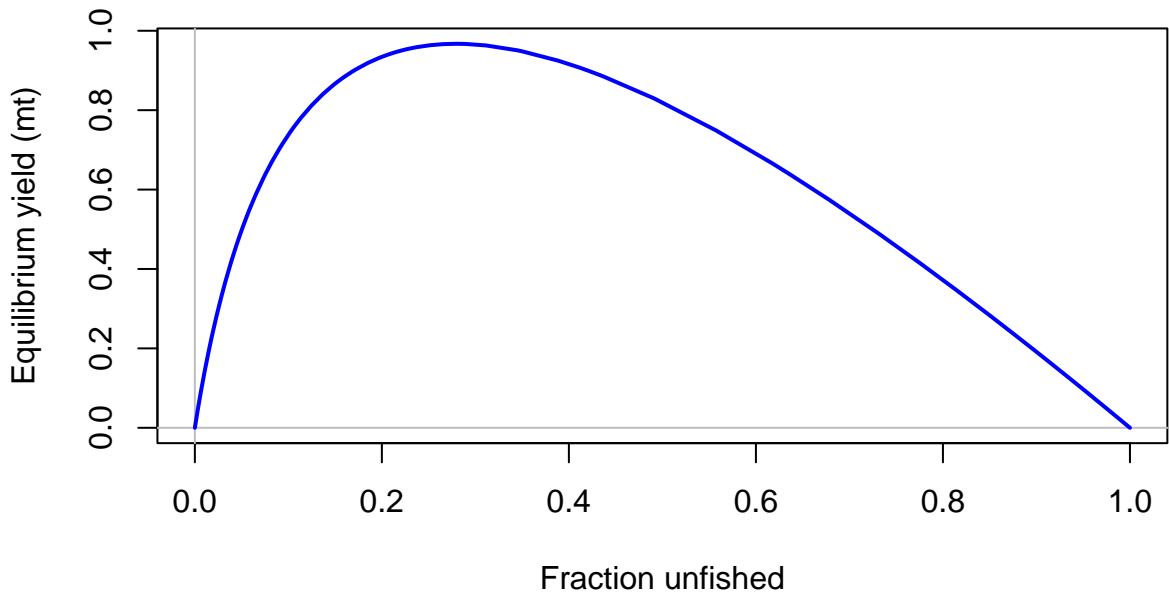


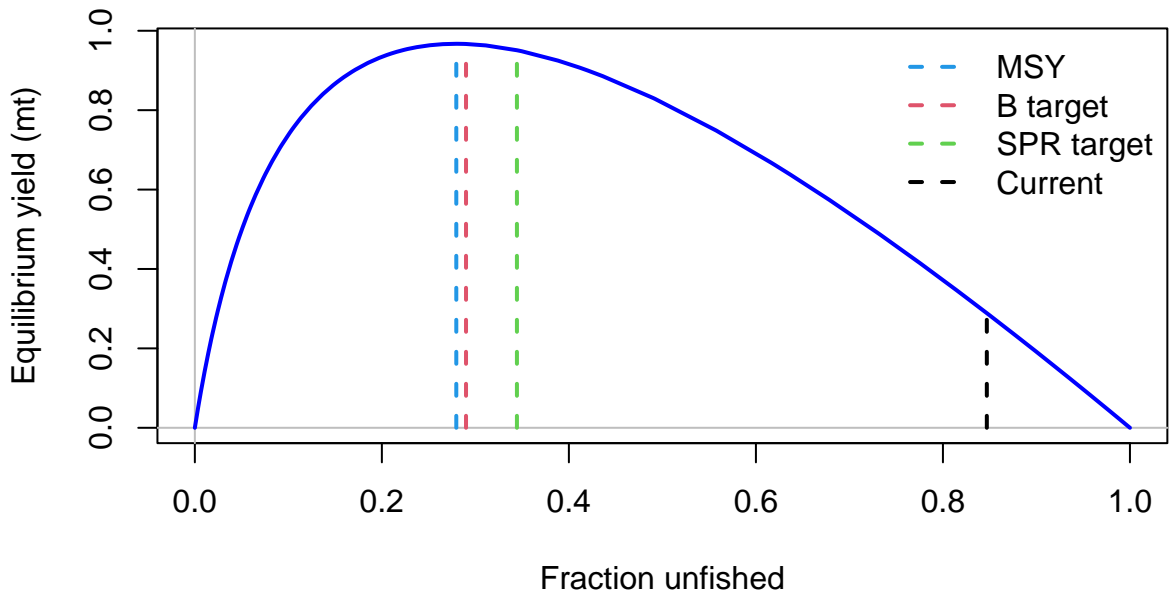


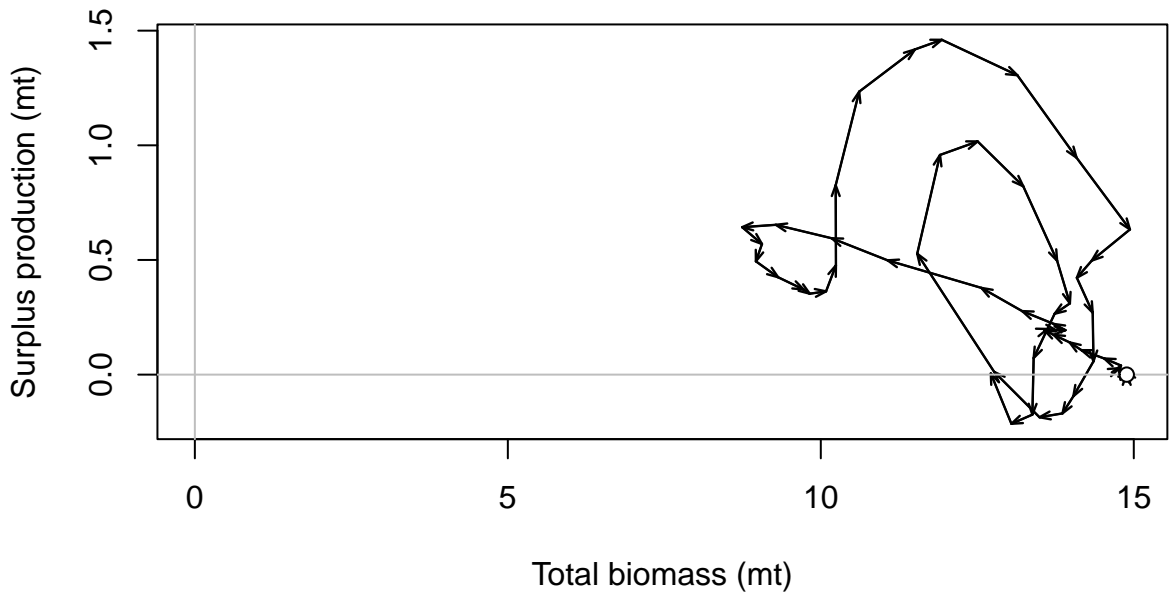


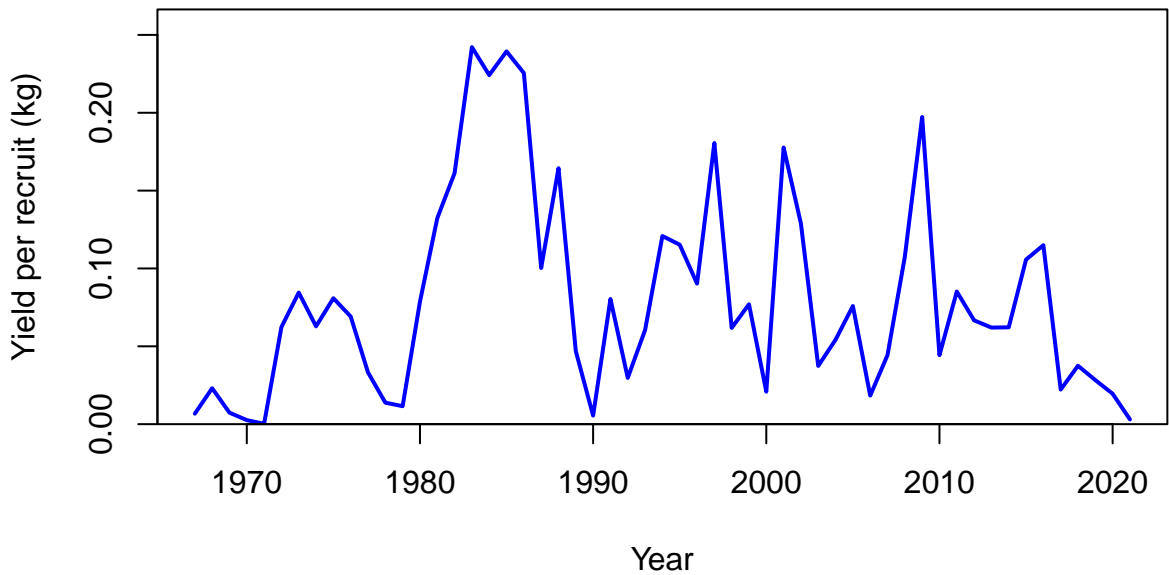
FISHERY (whole catch)

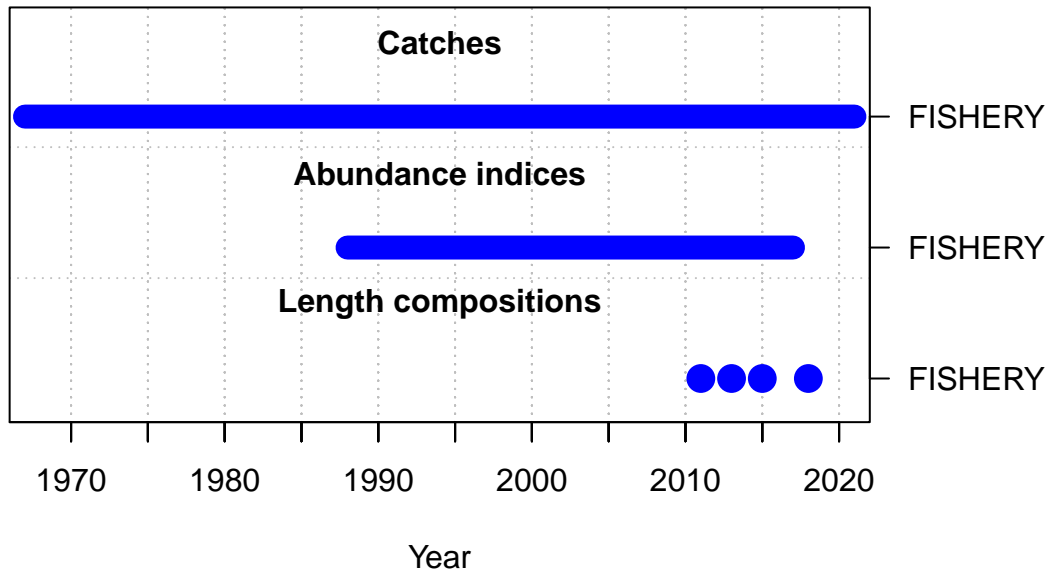


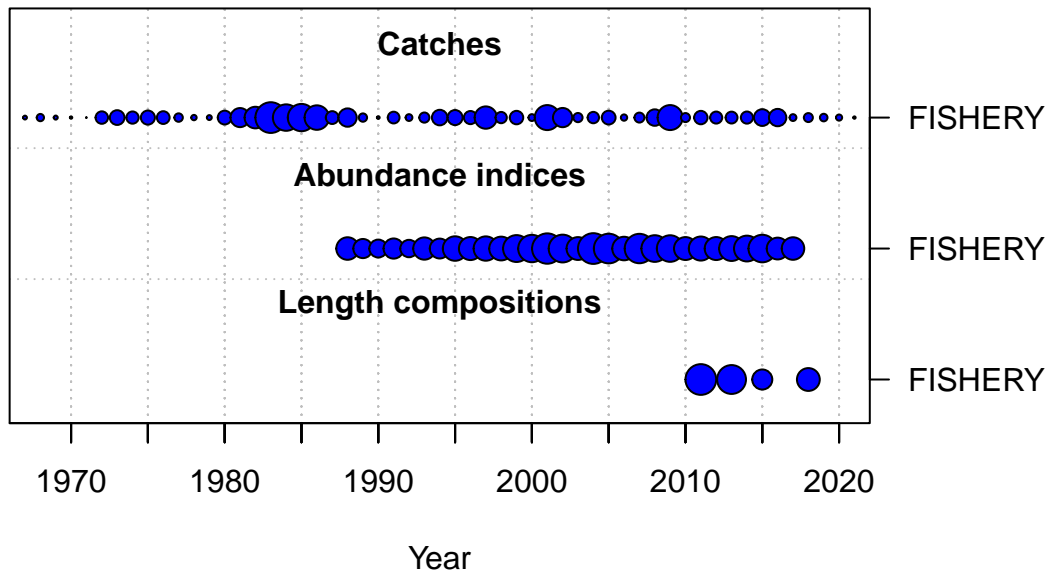




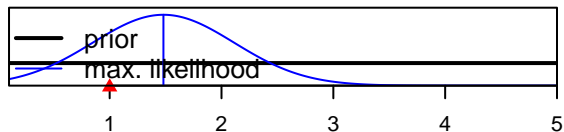




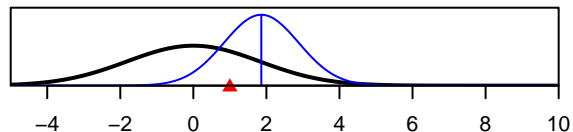




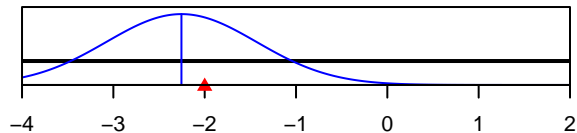
SR_LN(R0)



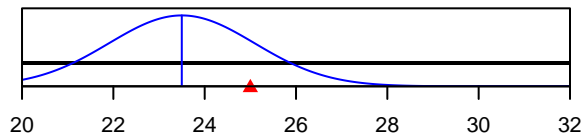
ln(DM_theta)_1



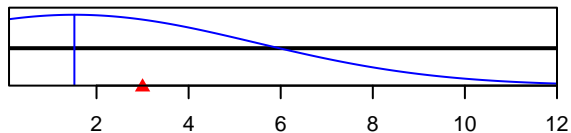
LnQ_base_FISHERY(1)



Size_inflection_FISHERY(1)



Size_95%width_FISHERY(1)



Parameter value