

Plots created using the 'r4ss' package in R

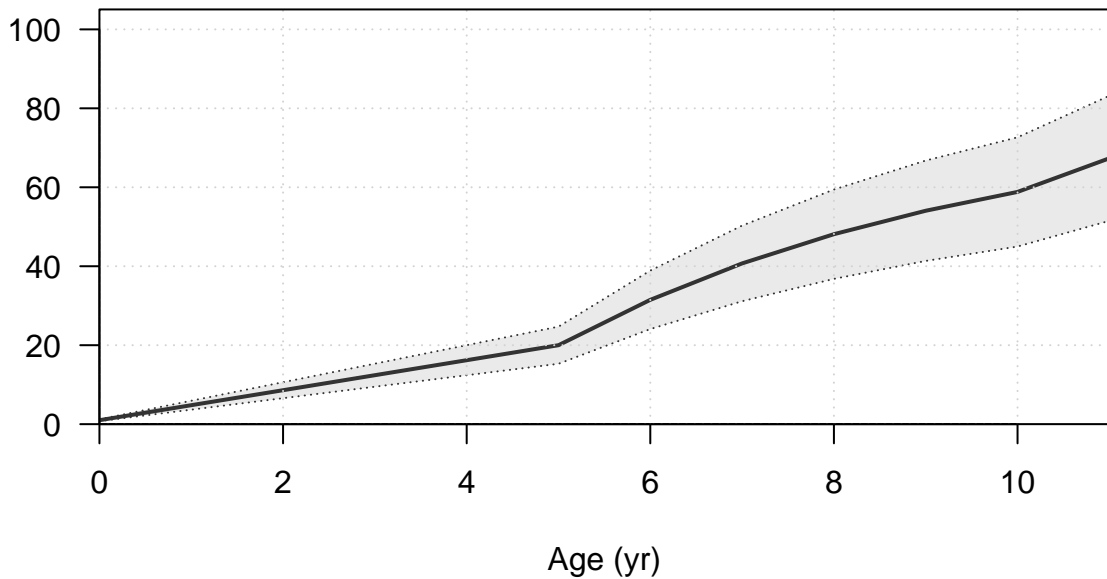
Stock Synthesis version: 3.30.19.0

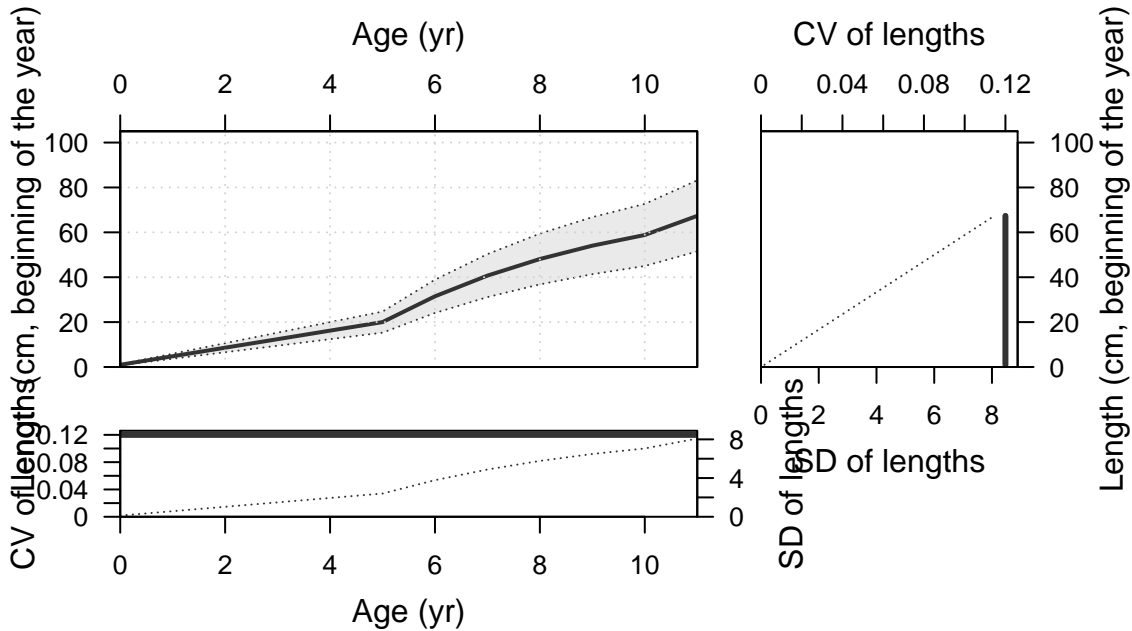
StartTime: Mon Jun 20 11:15:23 2022

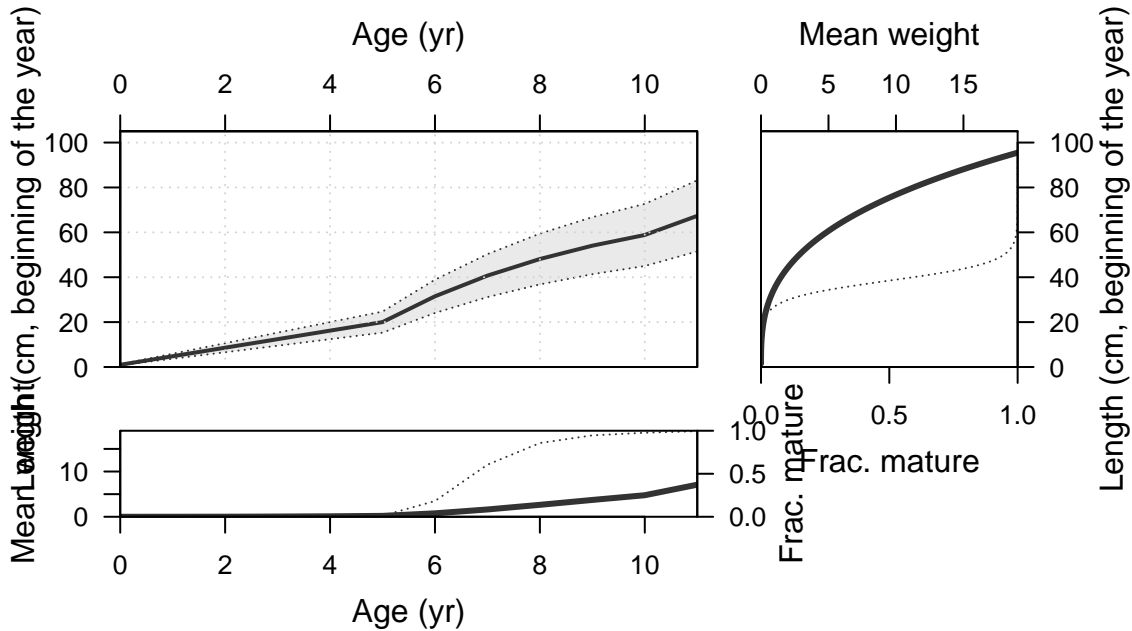
Data_File: data.ss

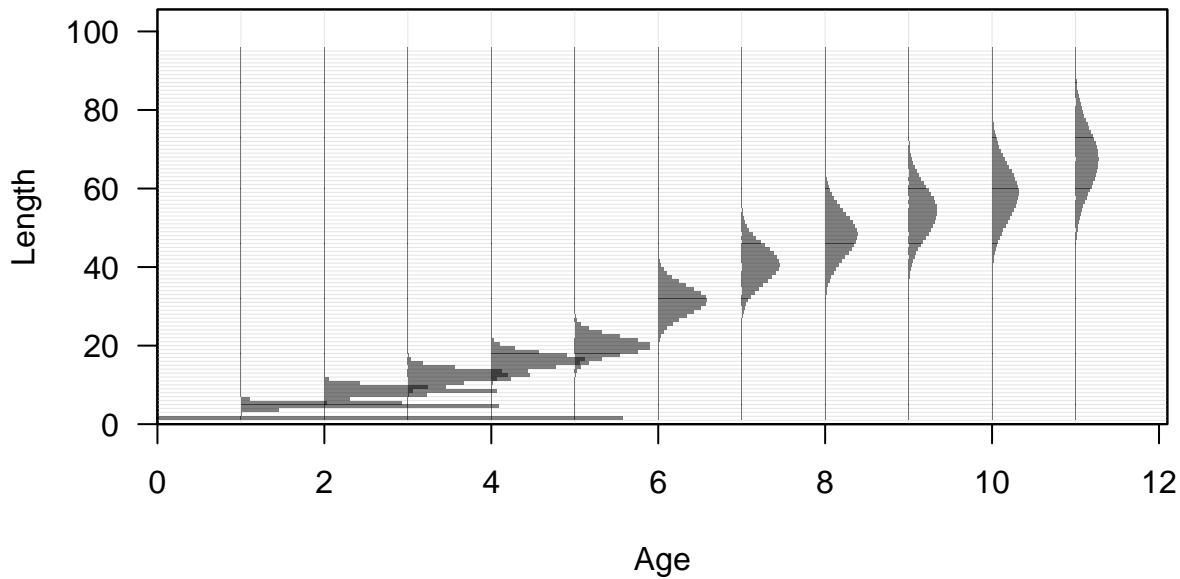
Control_File: control.ss

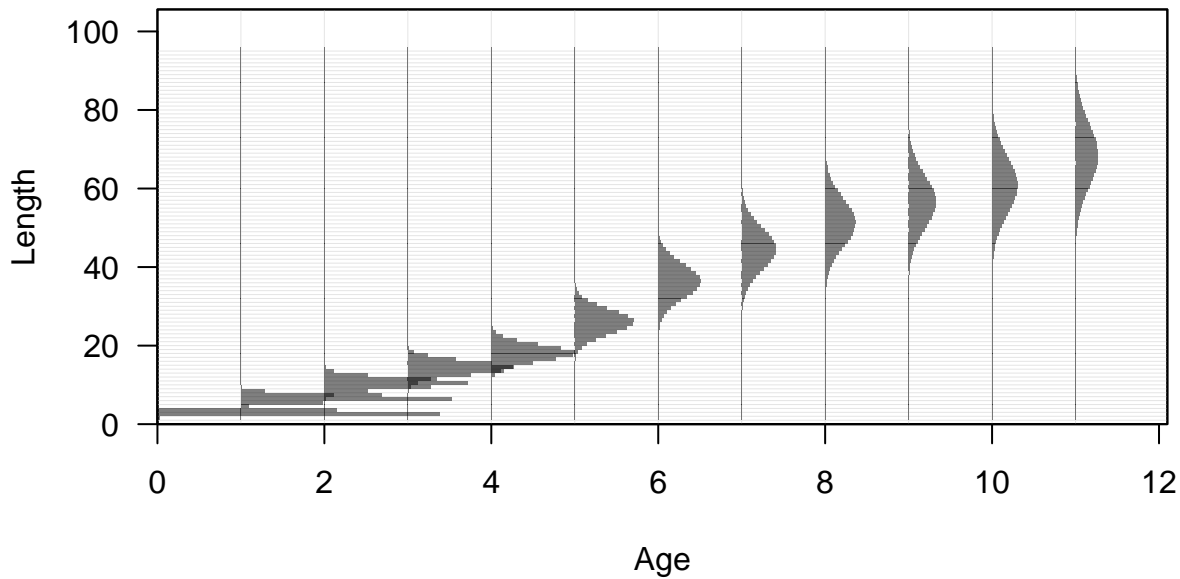
Length (cm, beginning of the year)

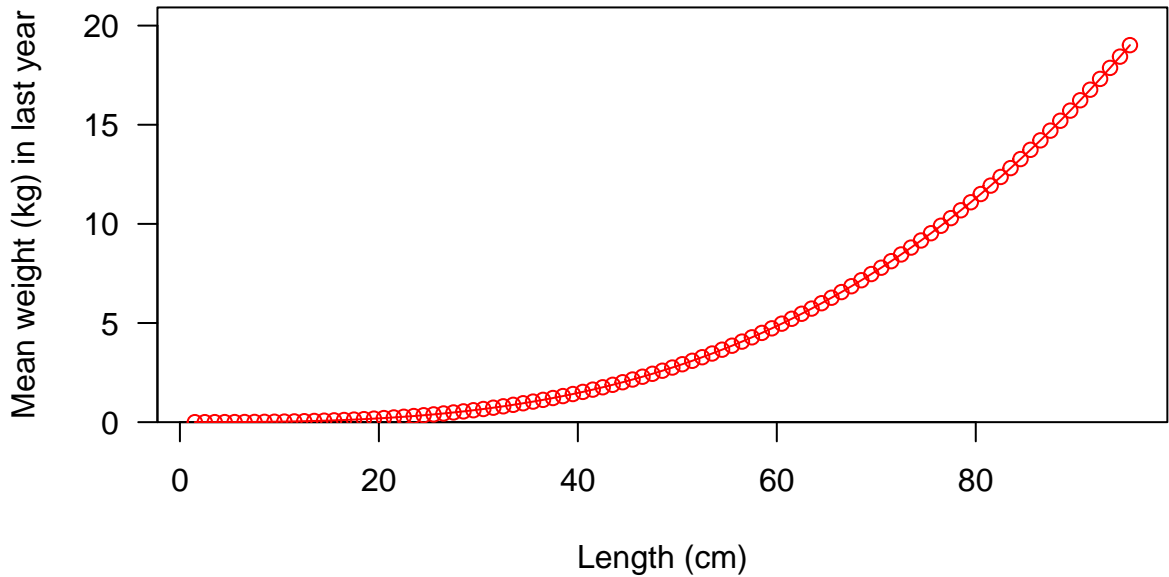


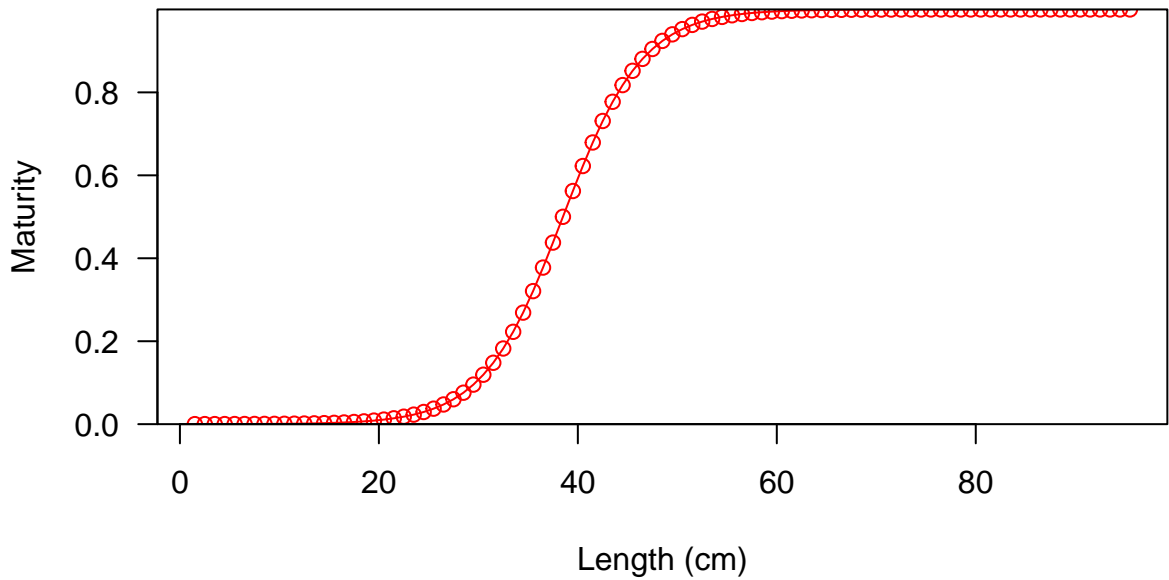


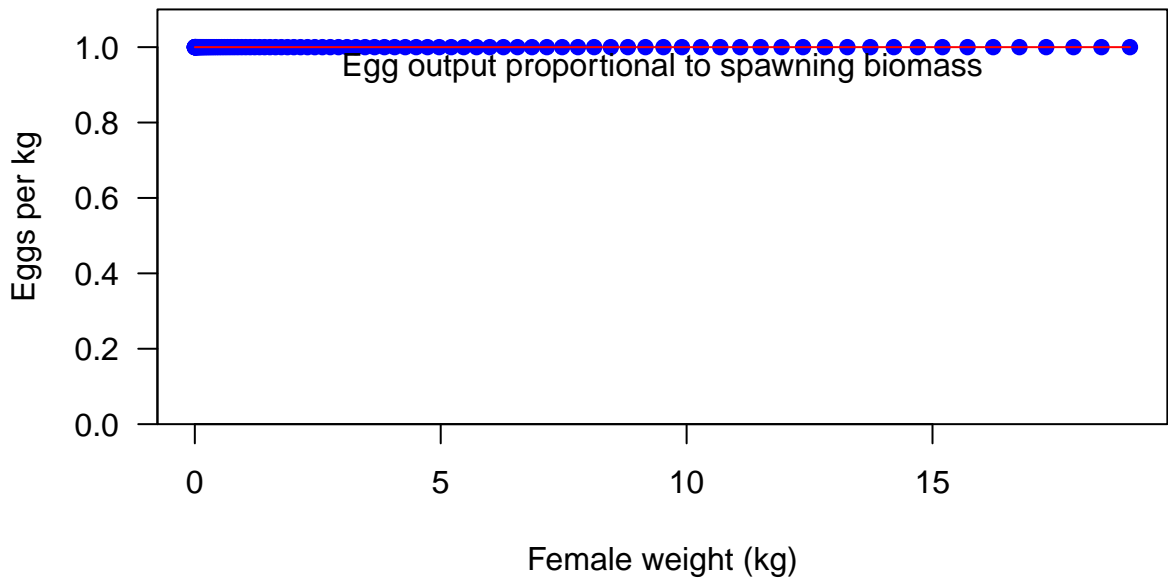




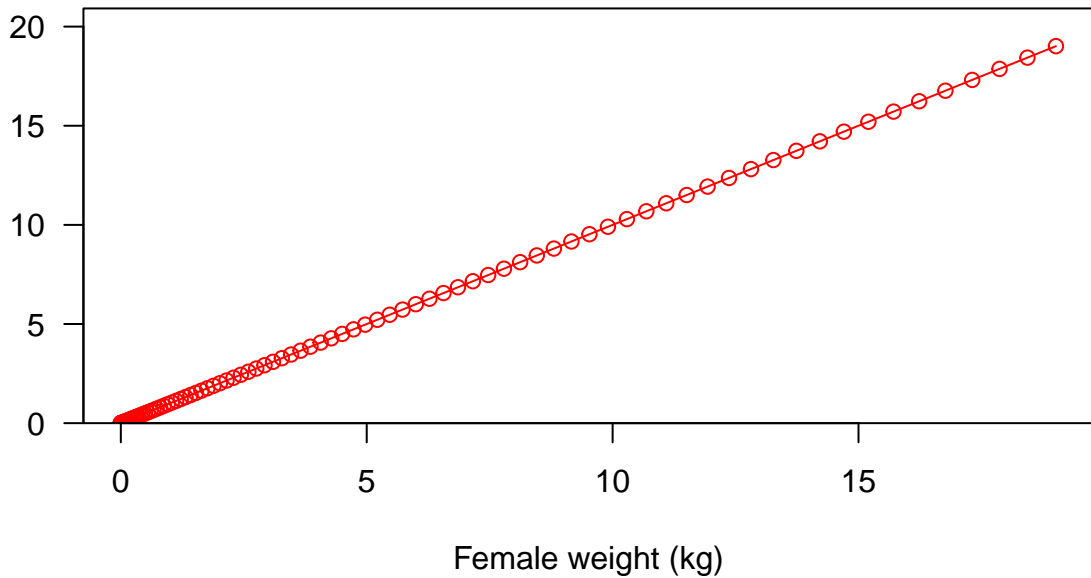


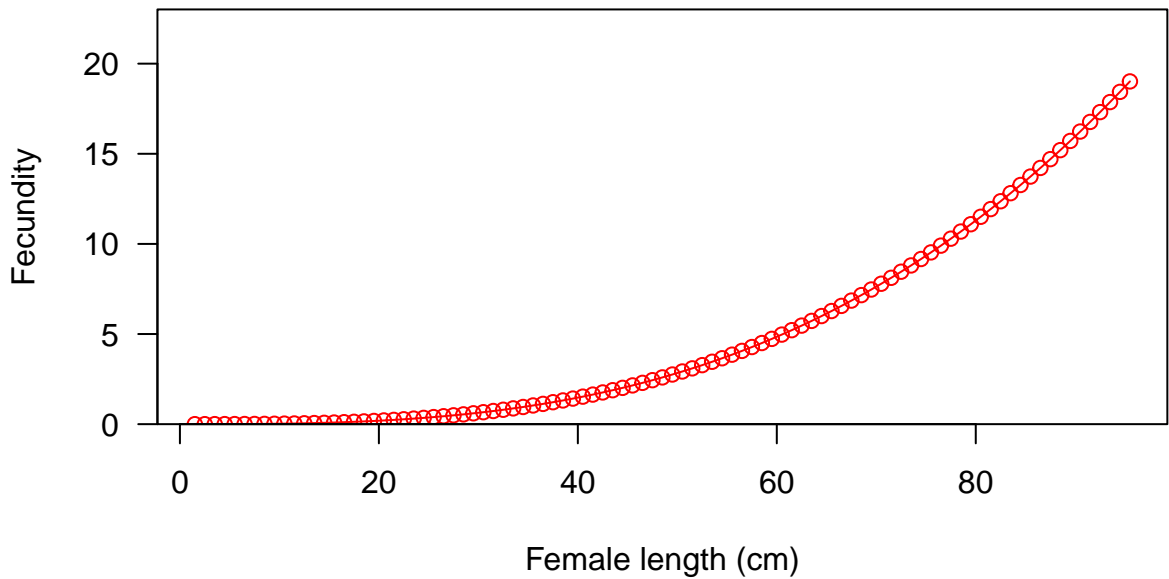




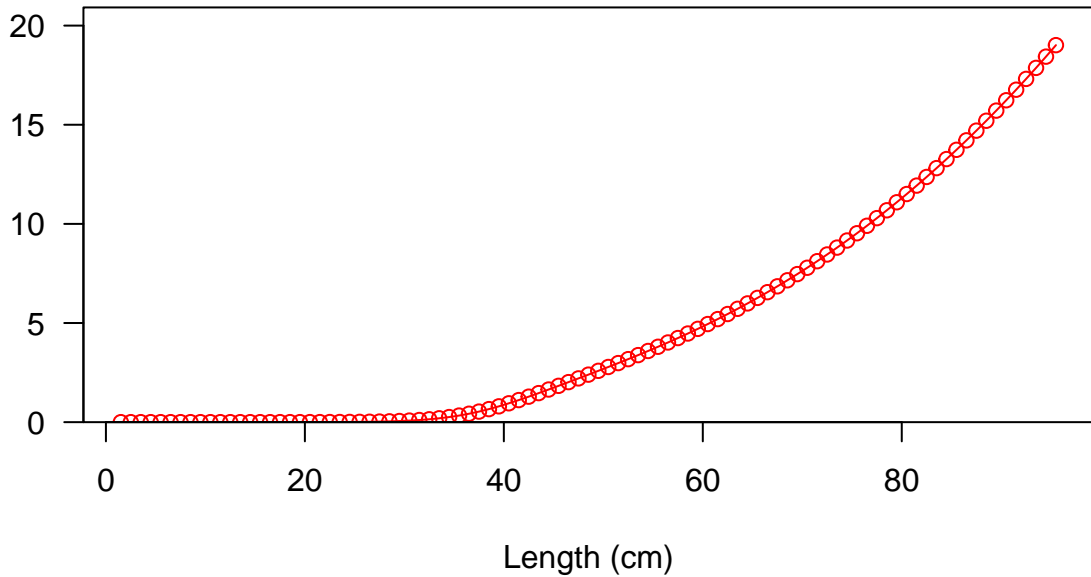


Fecundity





Spawning output



Spawning output

6

4

2

0

0

2

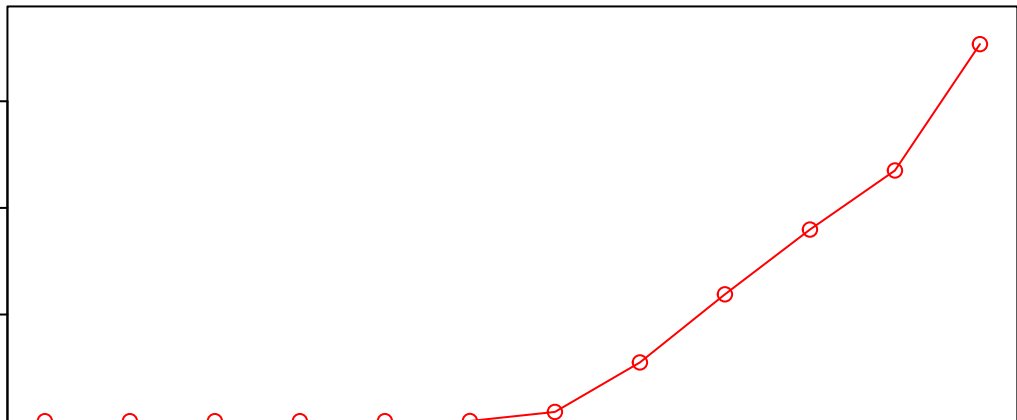
4

6

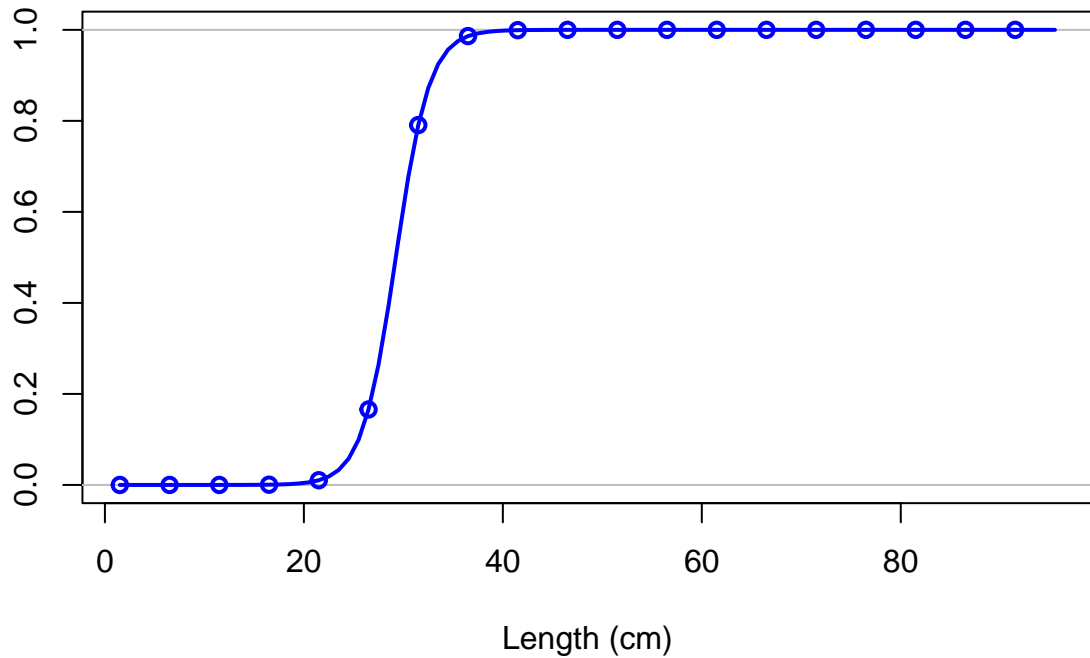
8

10

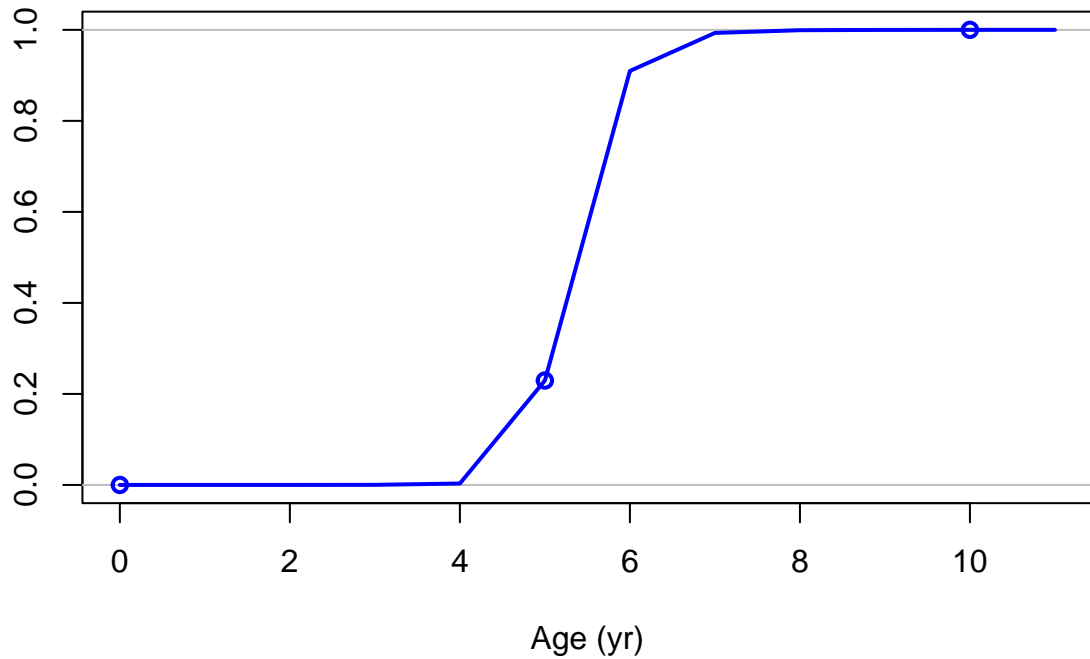
Age (yr)



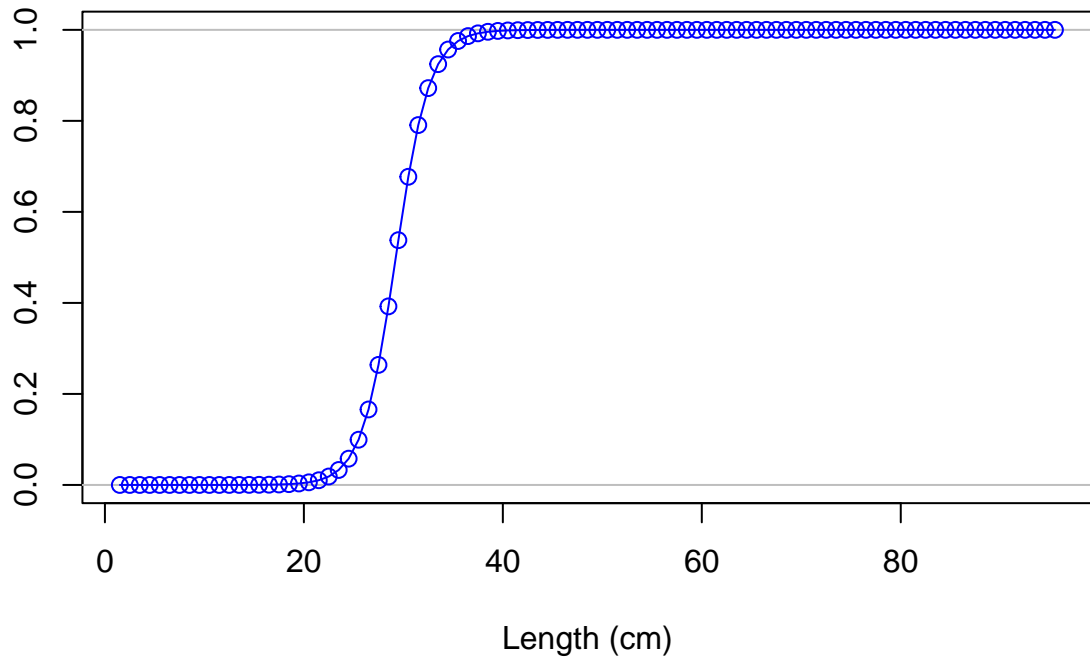
Selectivity

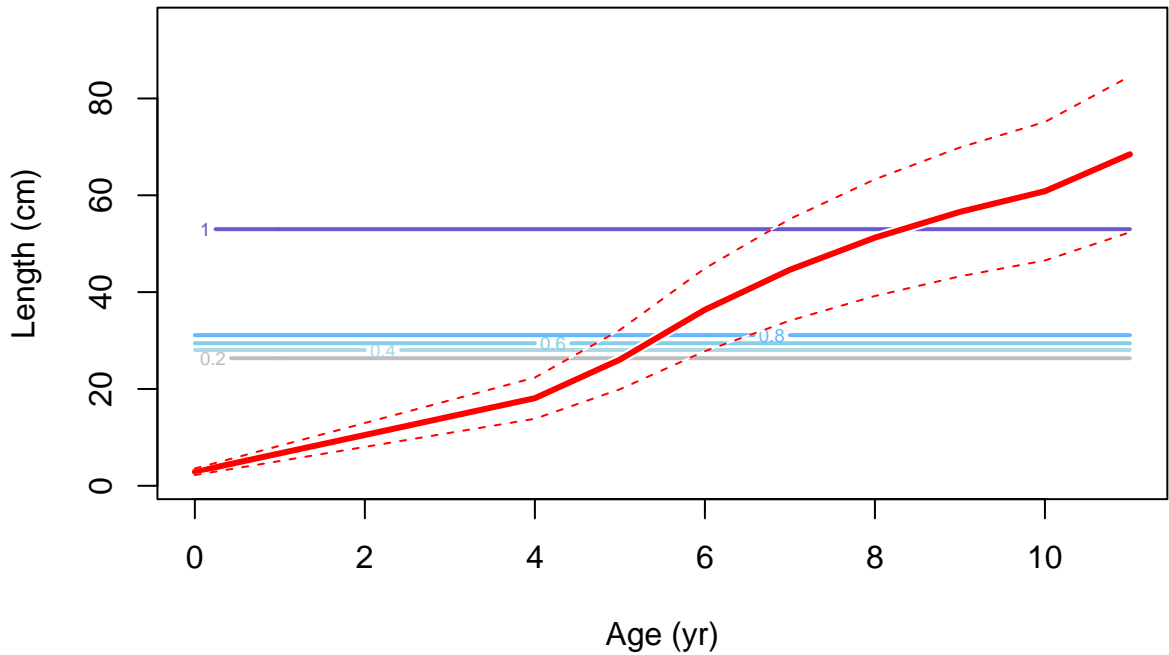


Selectivity

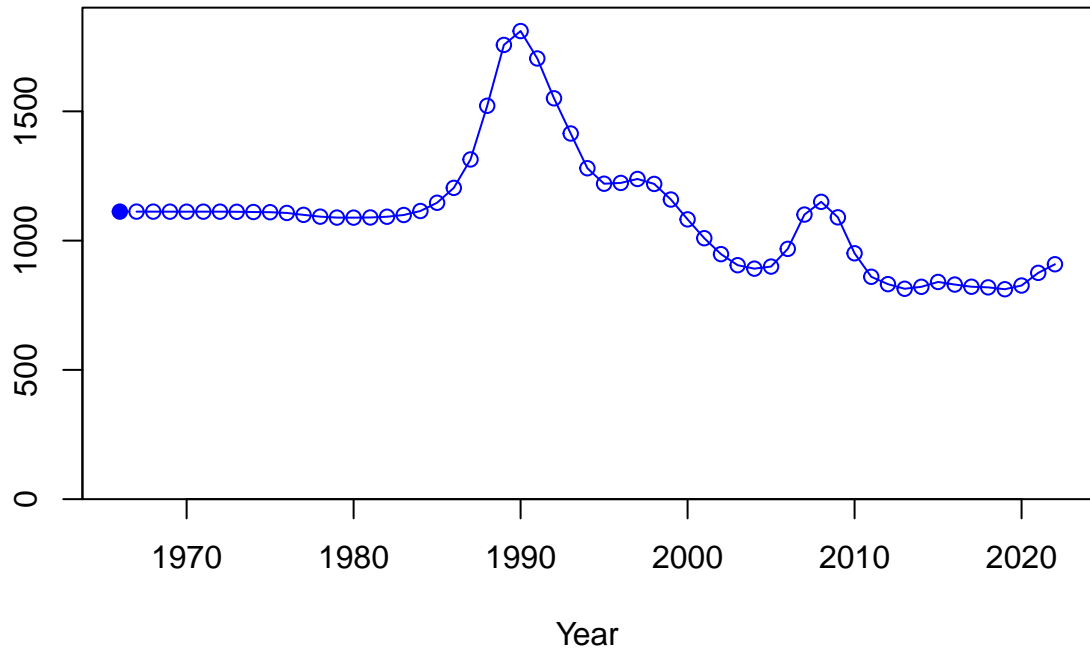


Selectivity

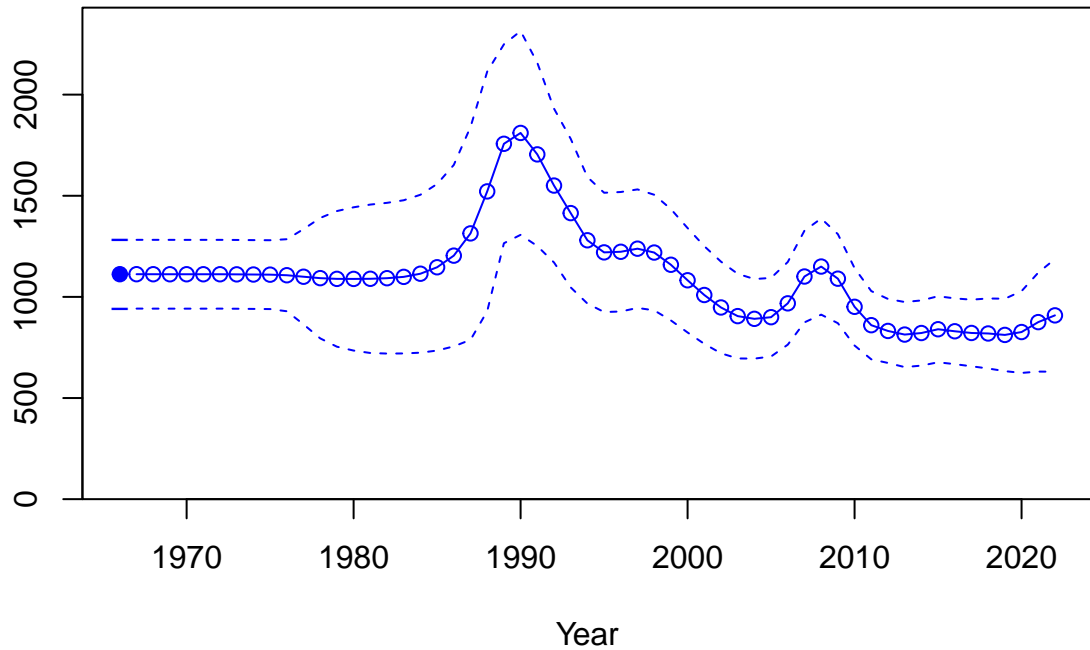




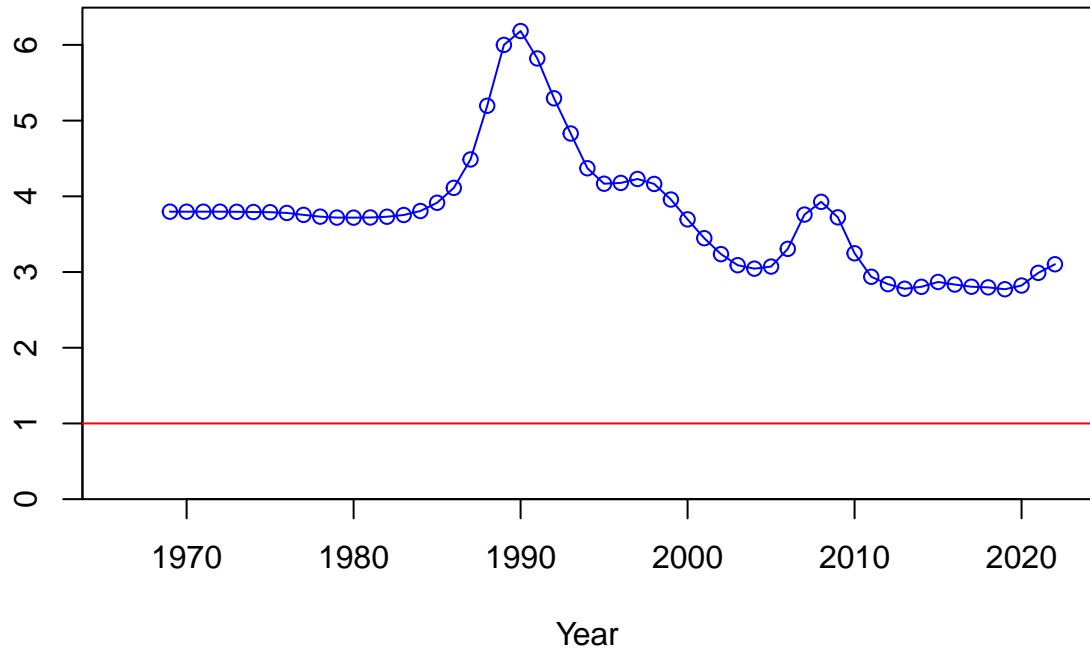
Spawning biomass (mt)



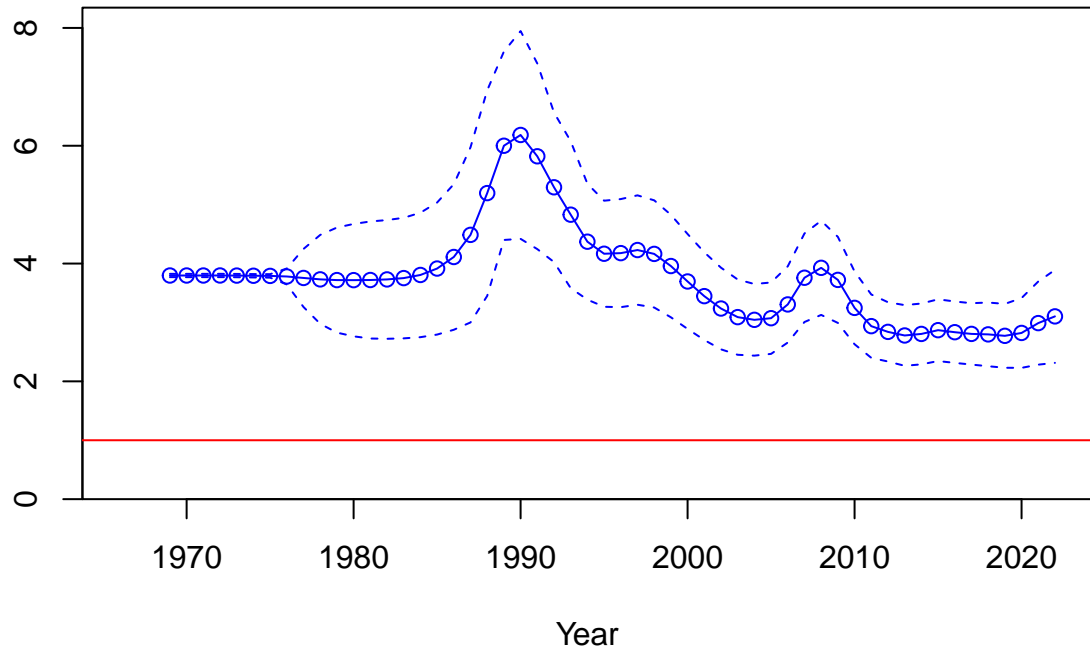
Spawning biomass (mt)

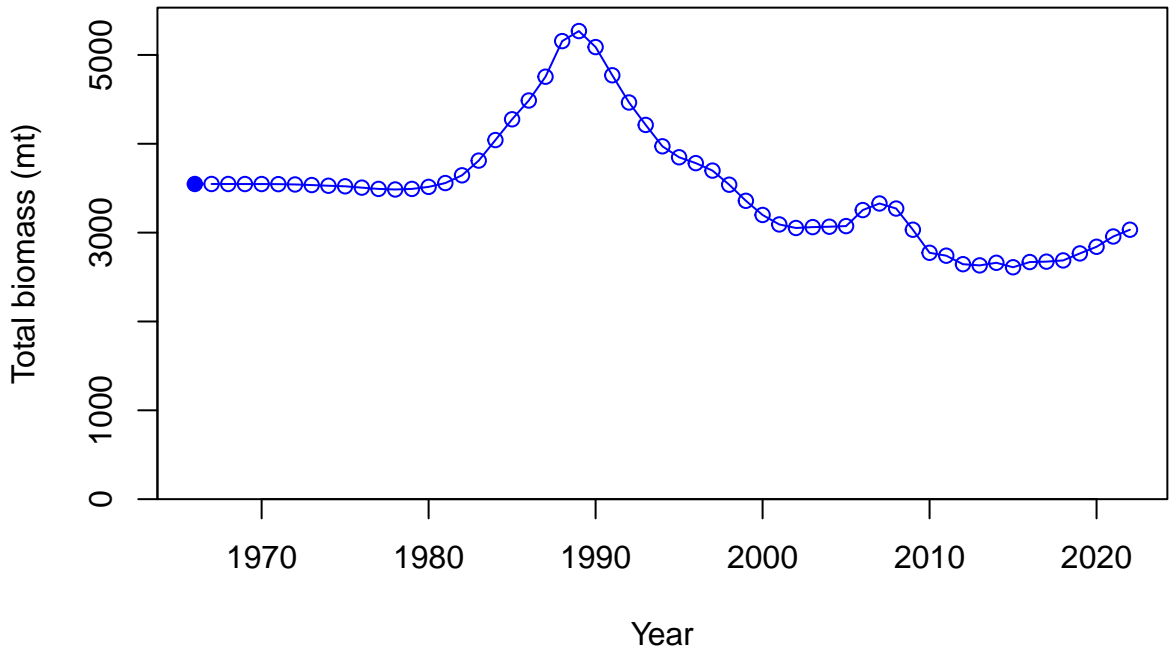


Relative spawning biomass: B/B_{MSY}

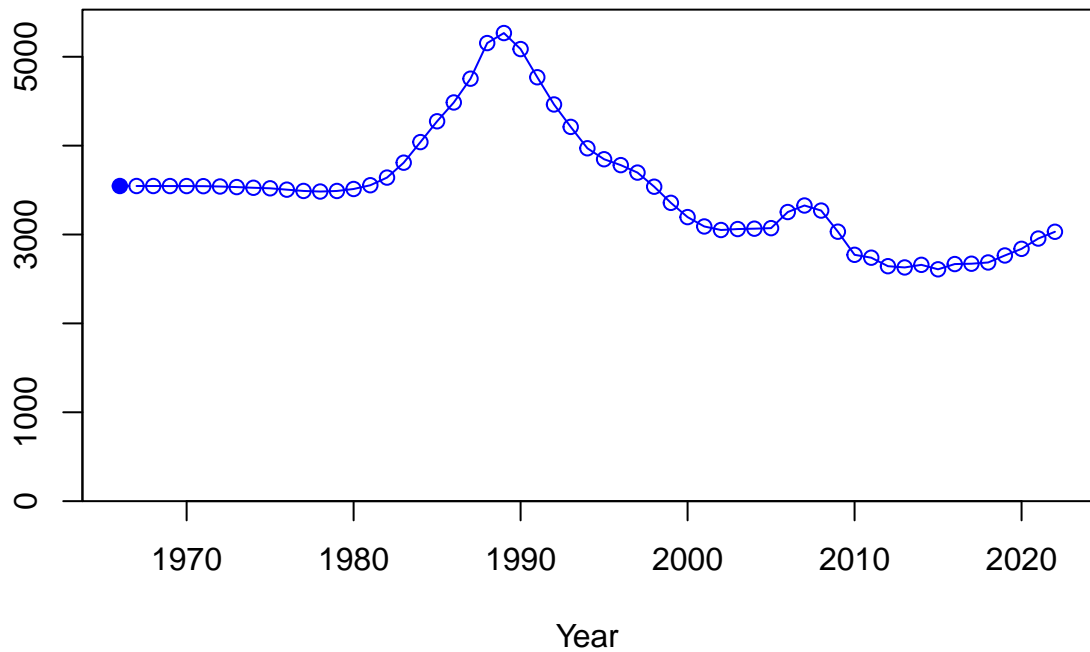


Relative spawning biomass: B/B_{MSY}

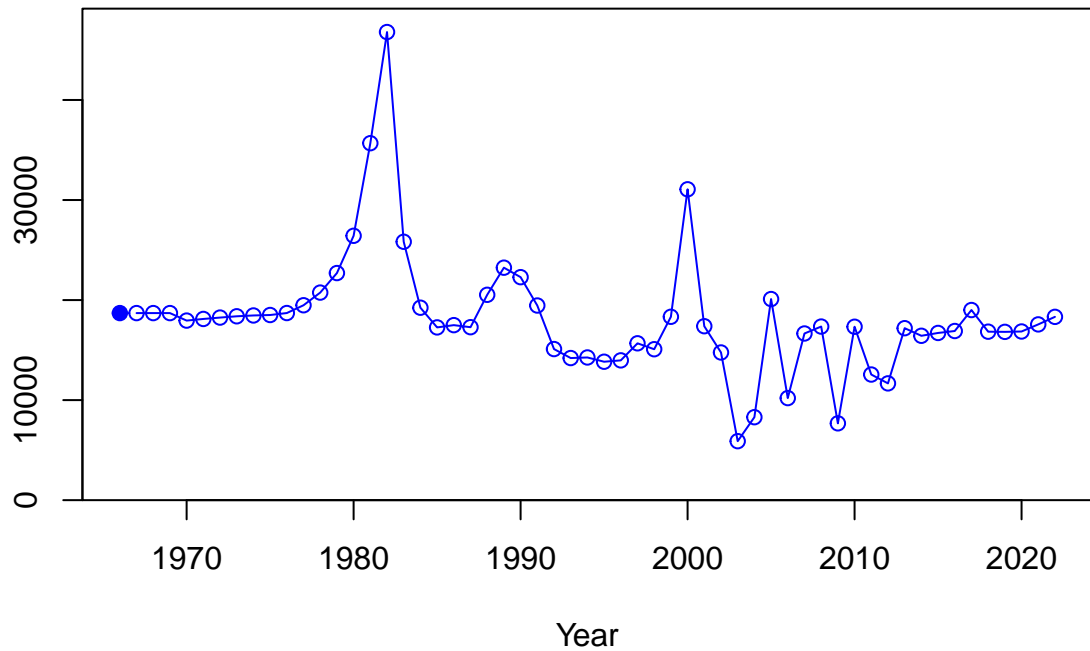




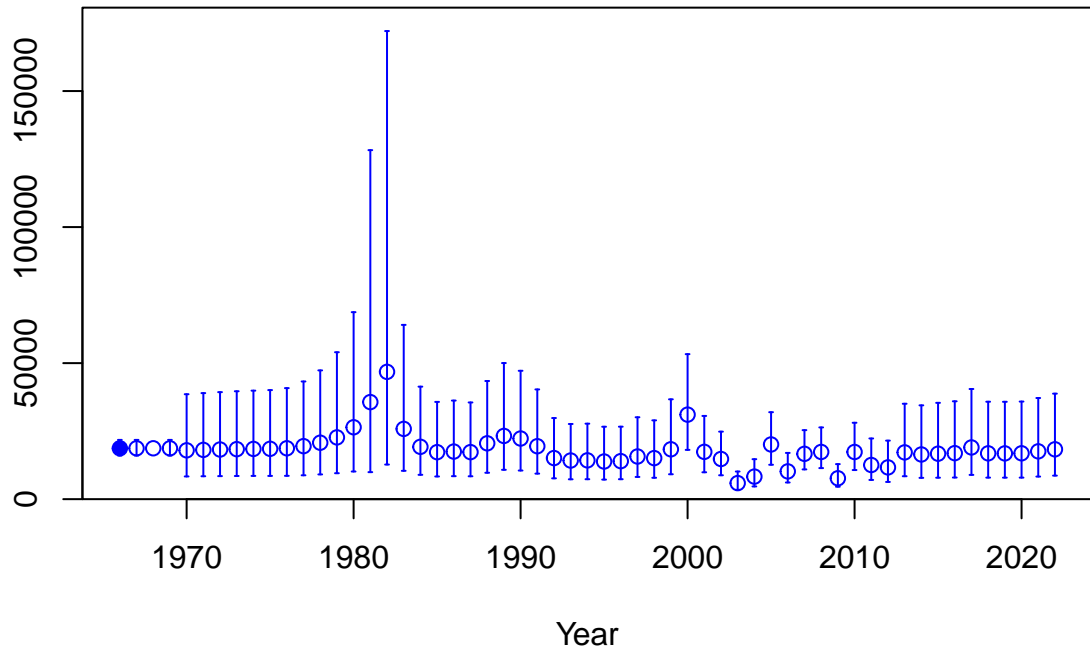
Summary biomass (mt)



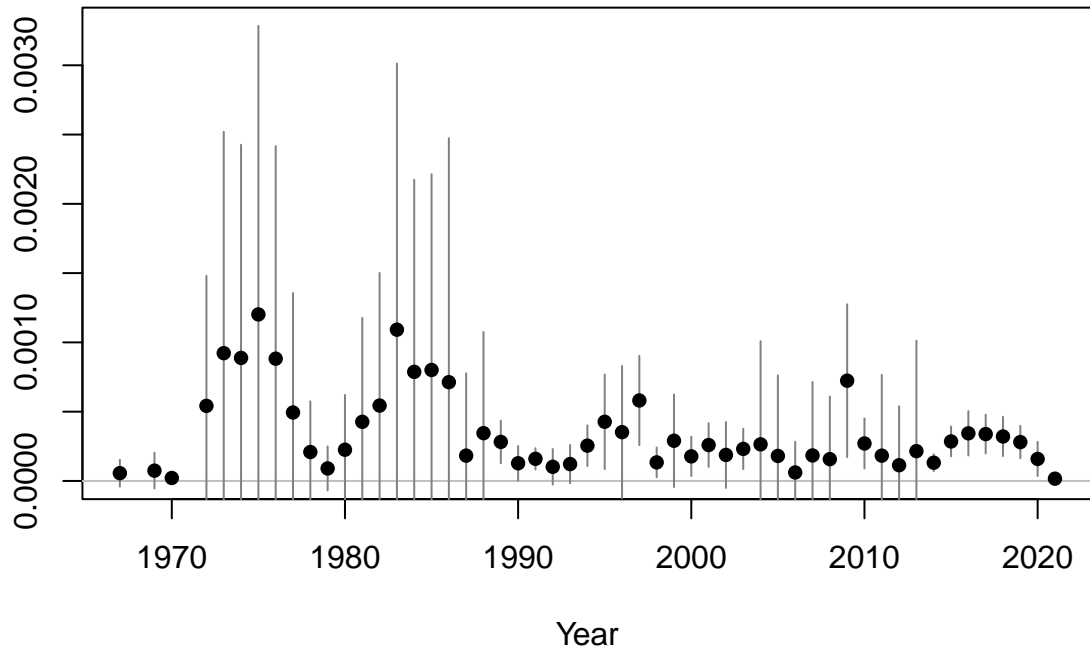
Age-0 recruits (1,000s)

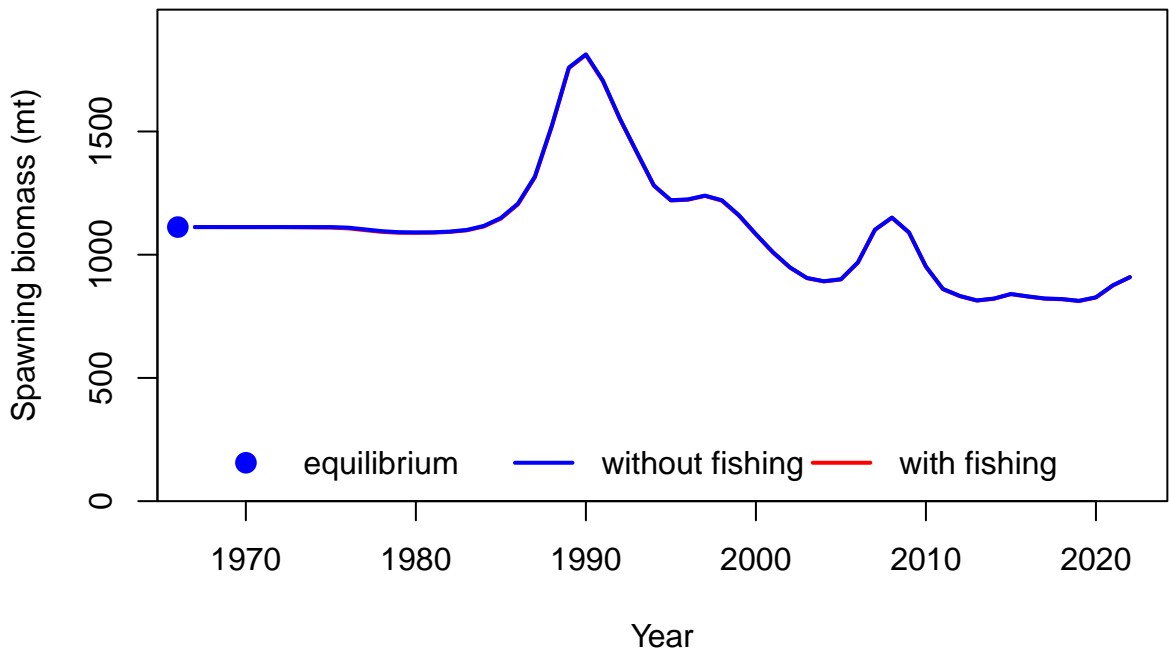


Age-0 recruits (1,000s)

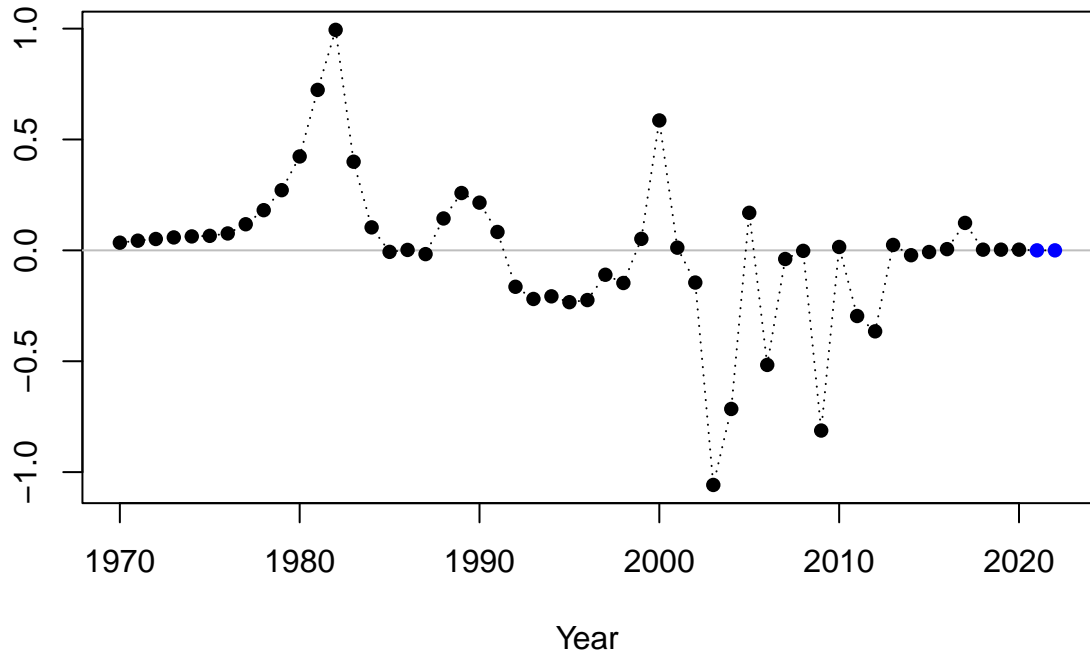


Summary Fishing Mortality



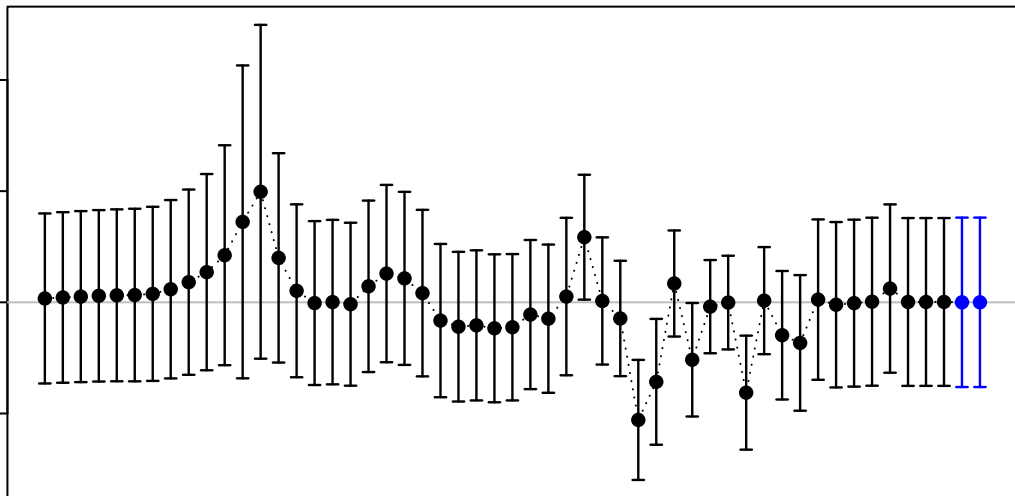


Log recruitment deviation



Log recruitment deviation

2
1
0
-1



Year

1970

1980

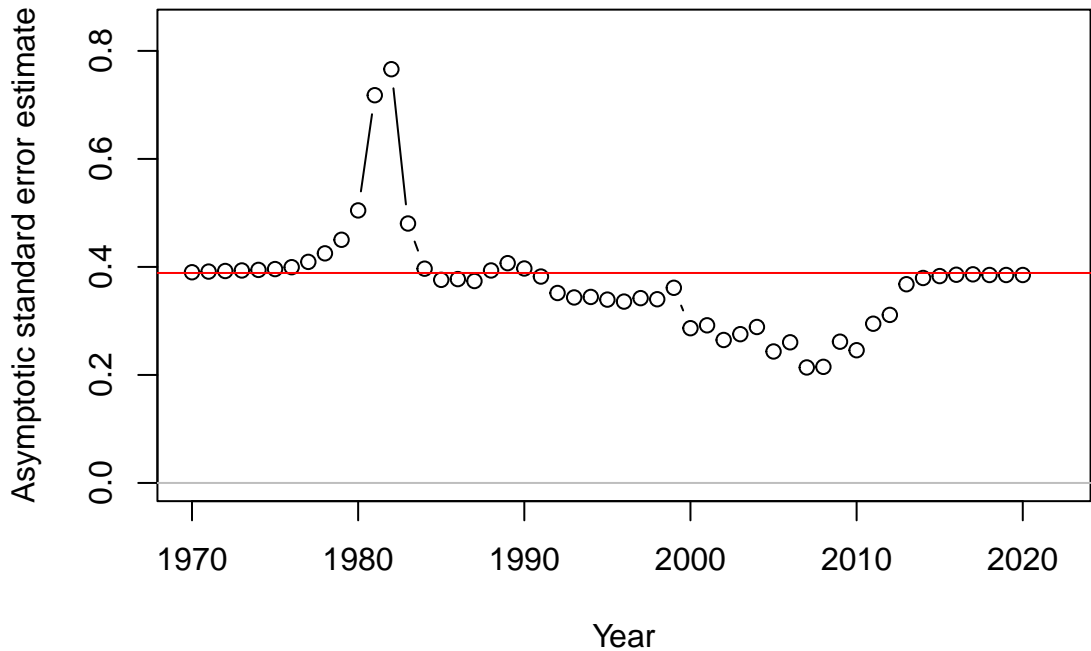
1990

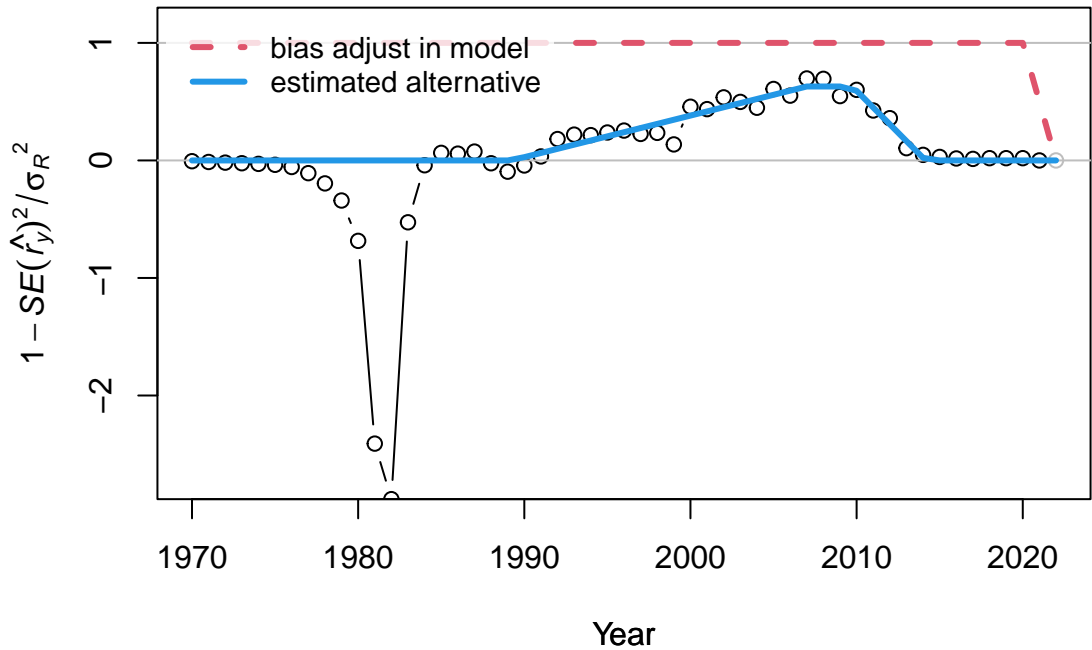
2000

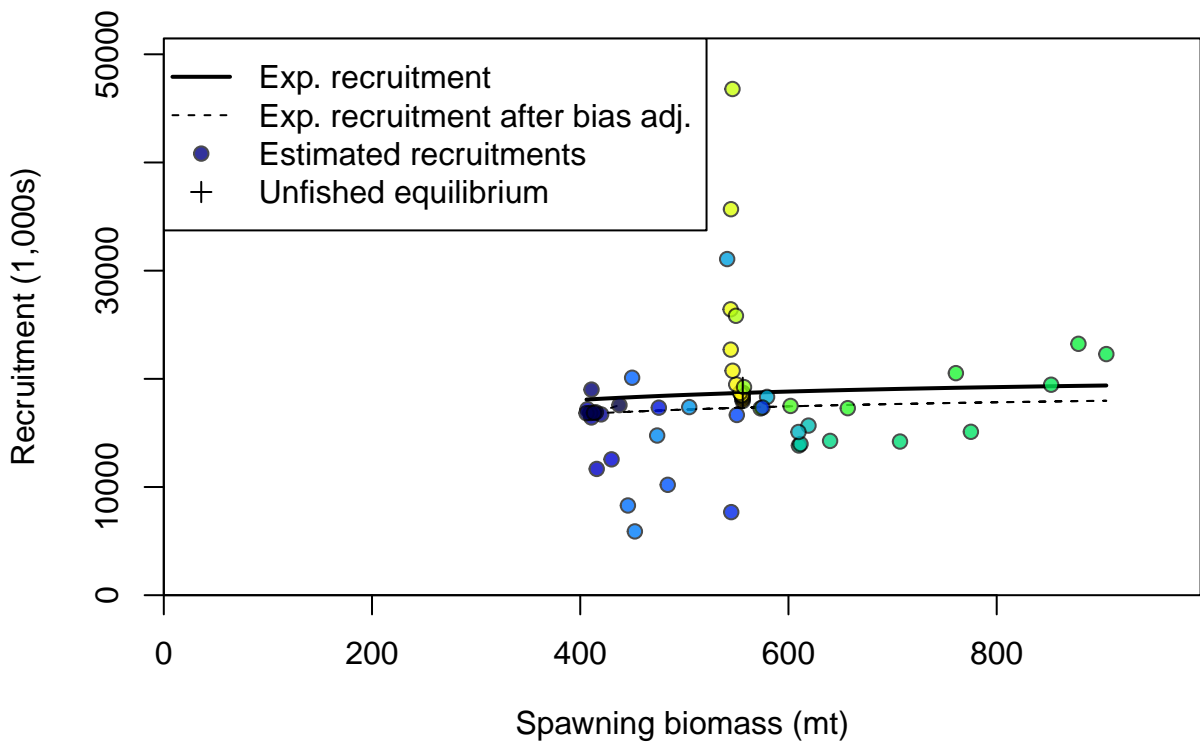
2010

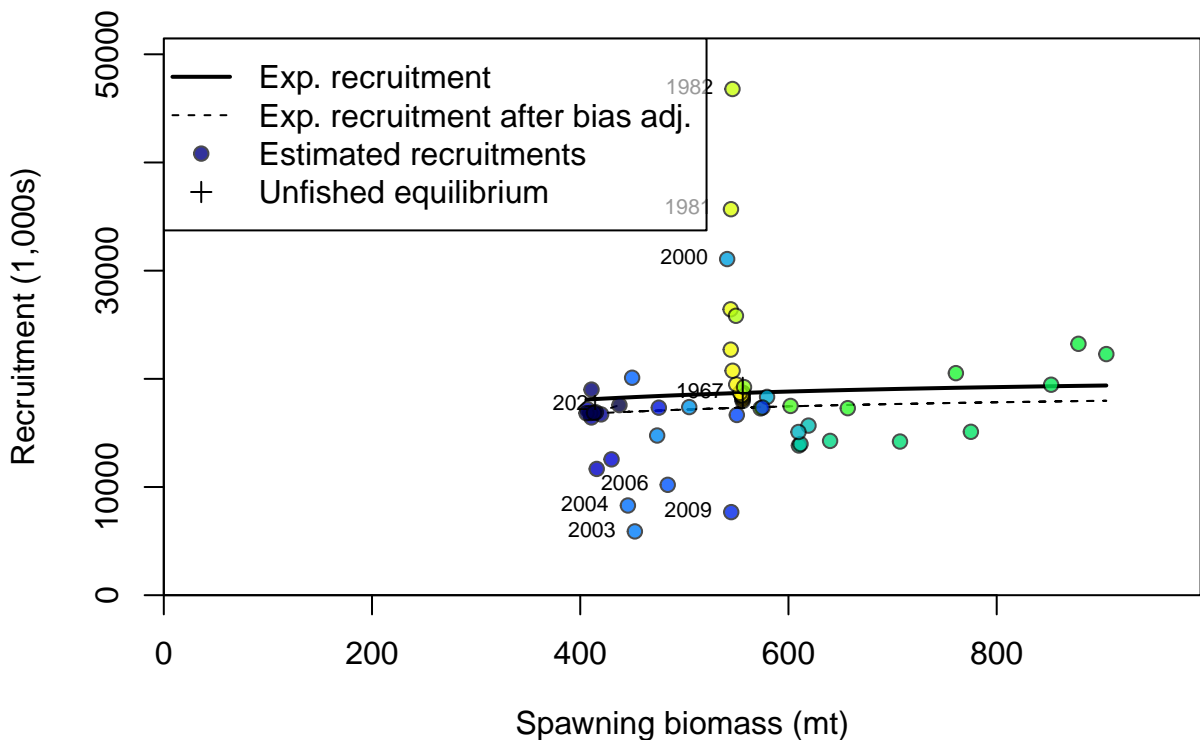
2020

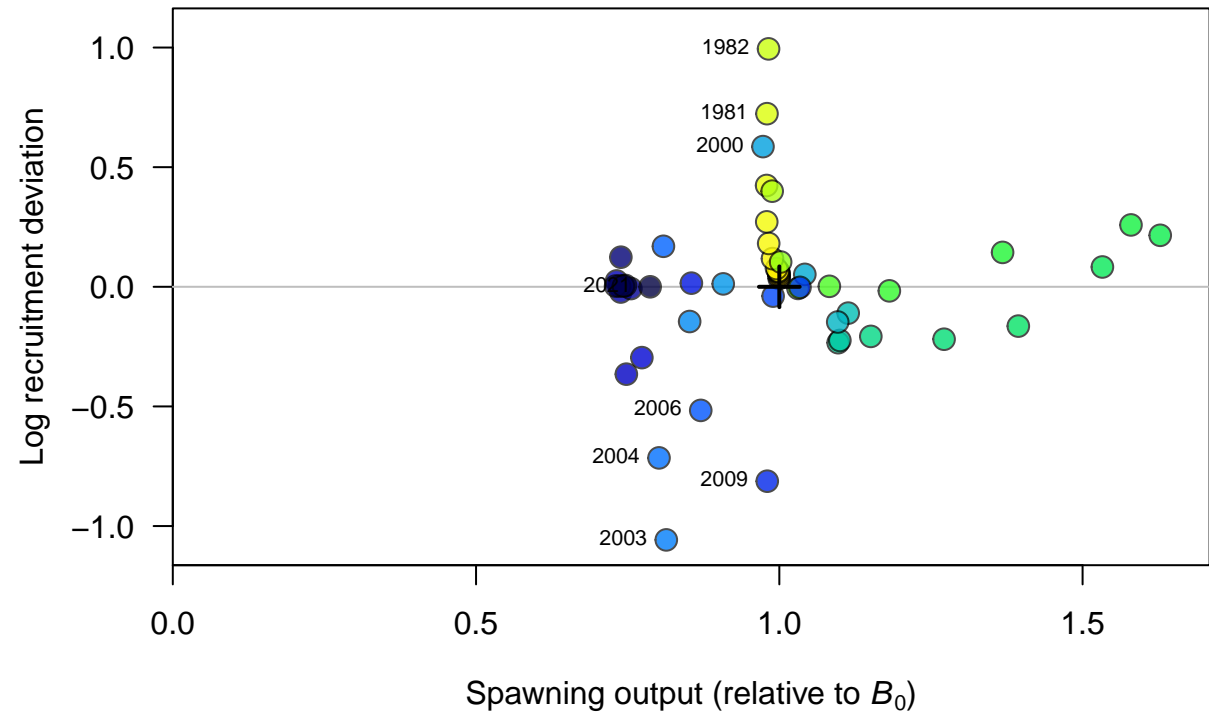
Recruitment deviation variance

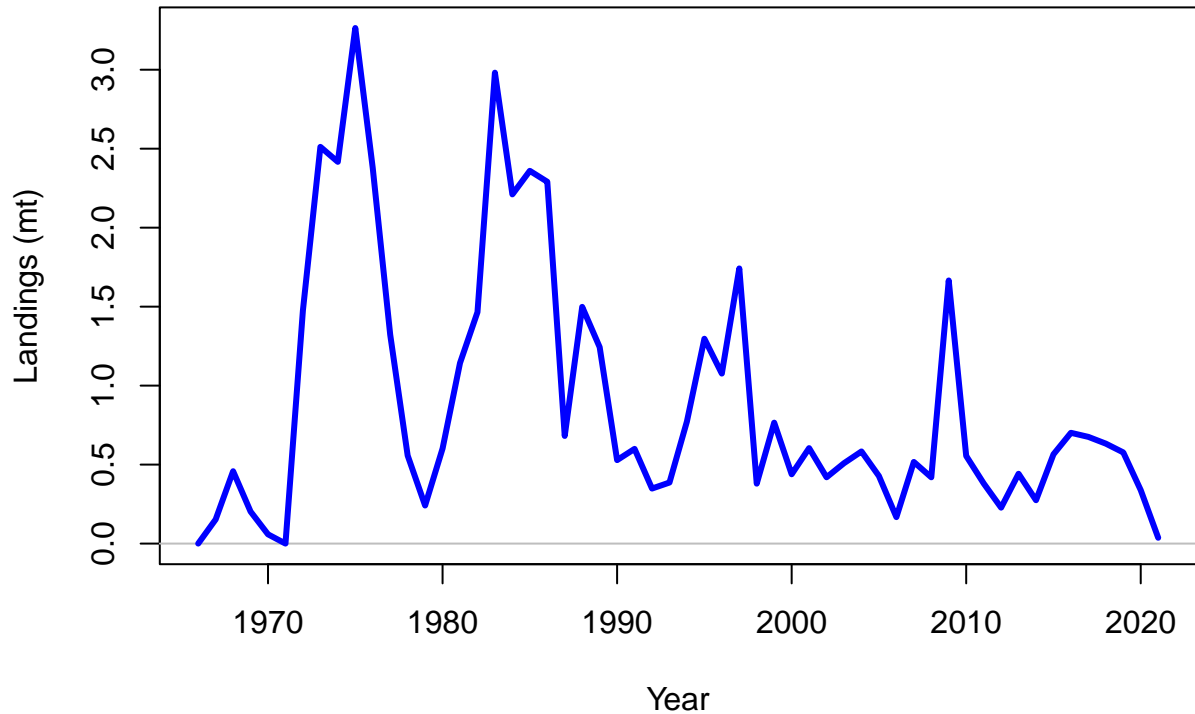


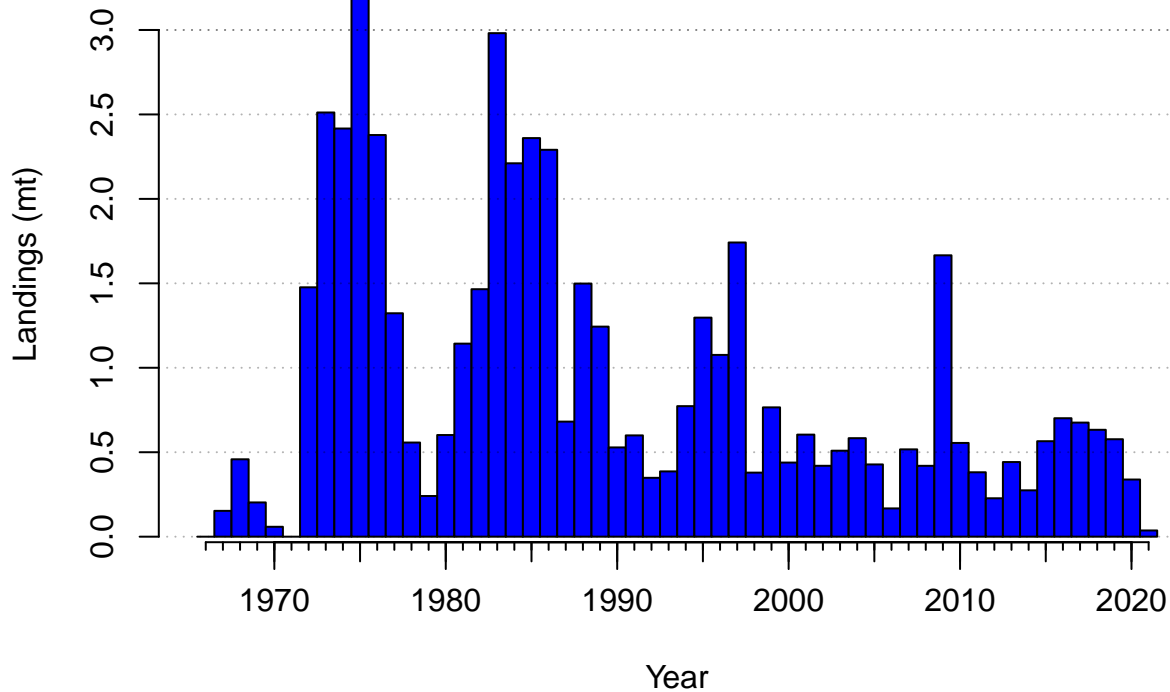


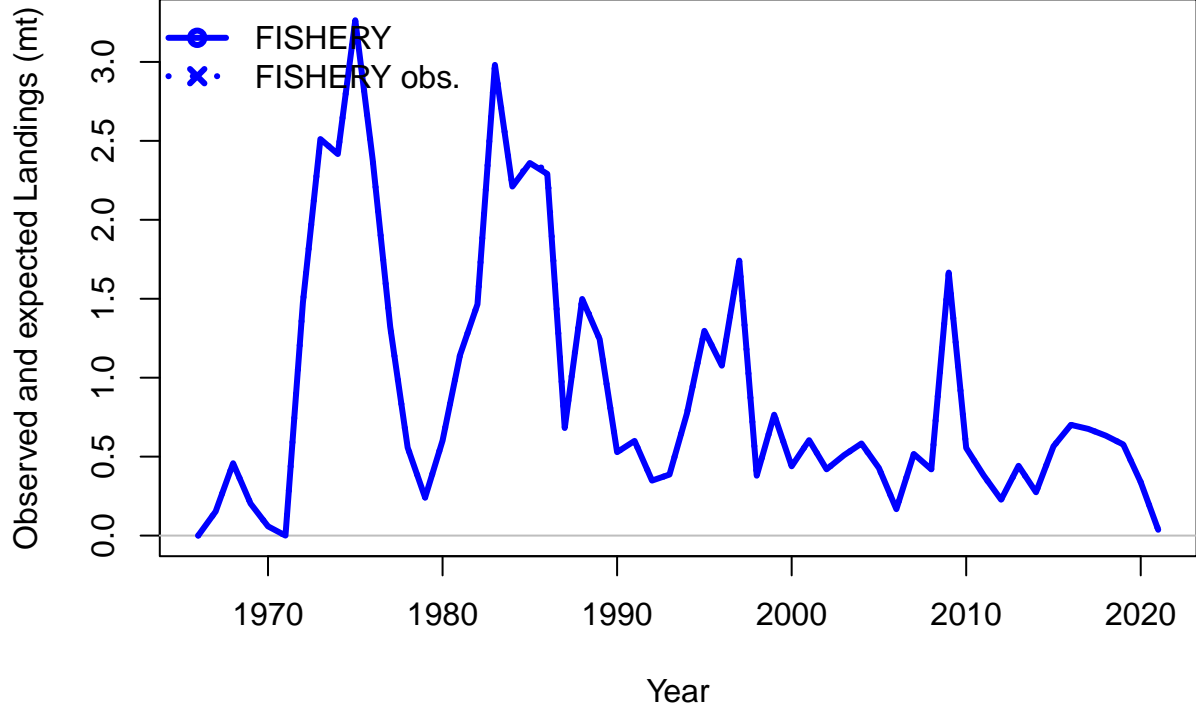


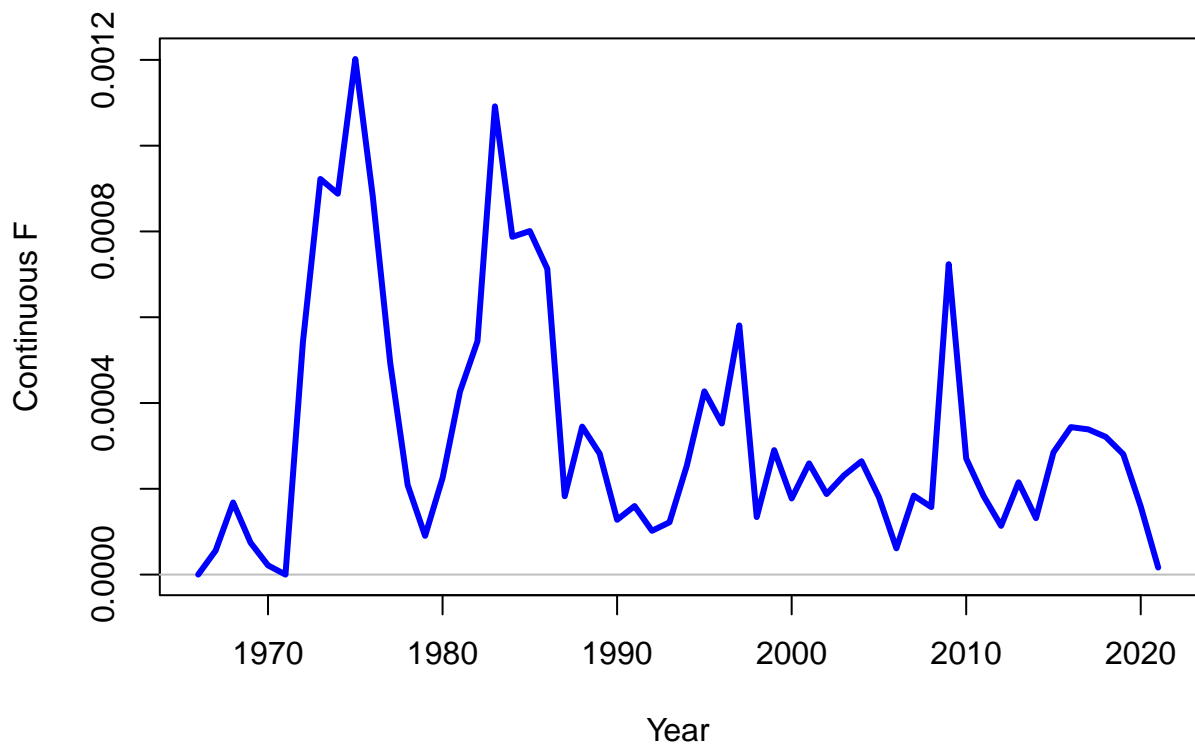




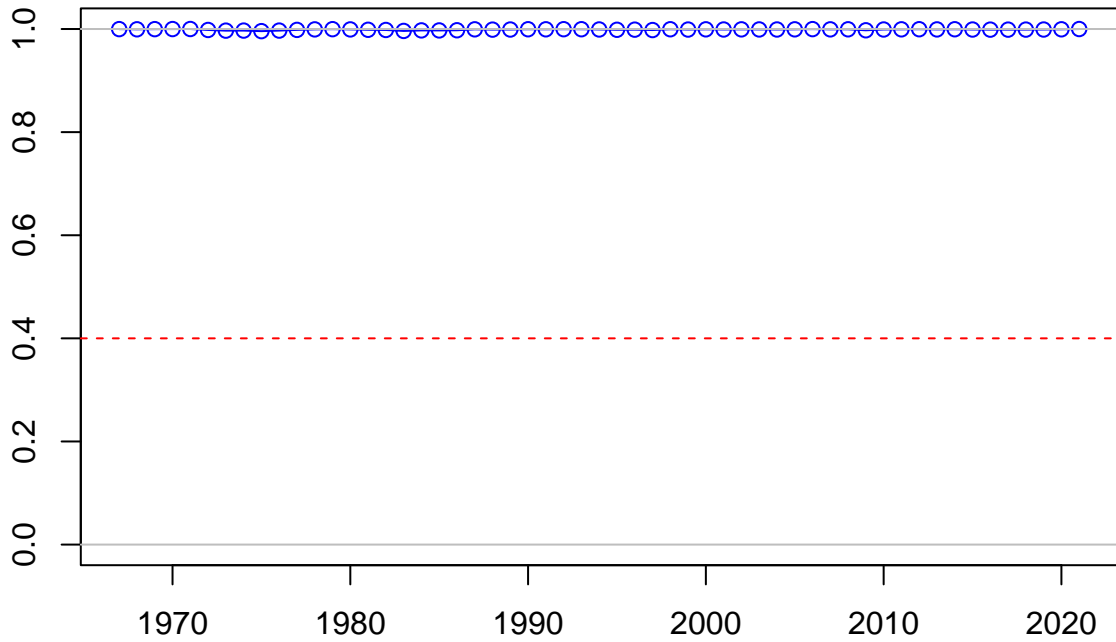




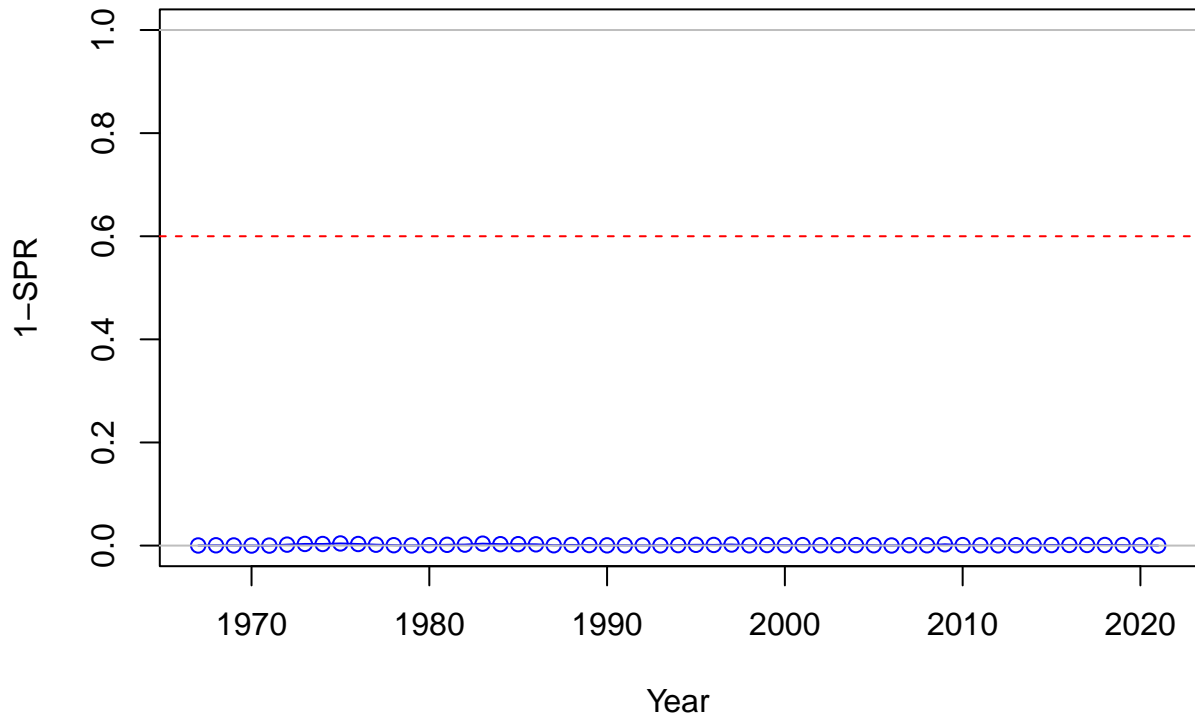




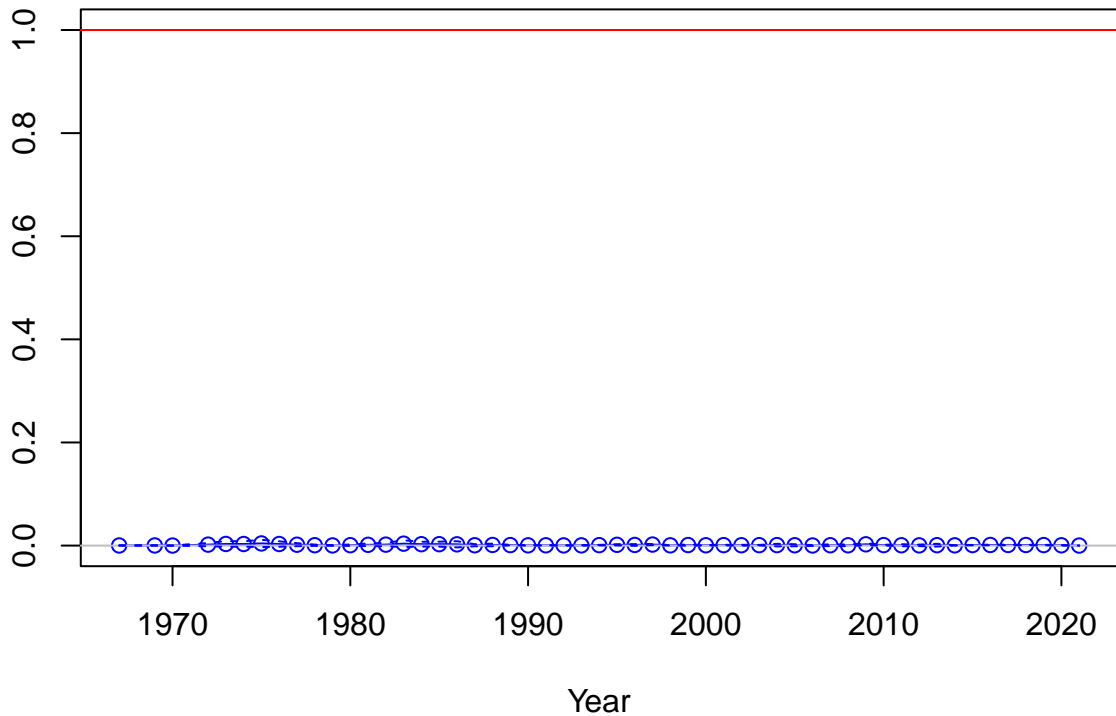
SPR



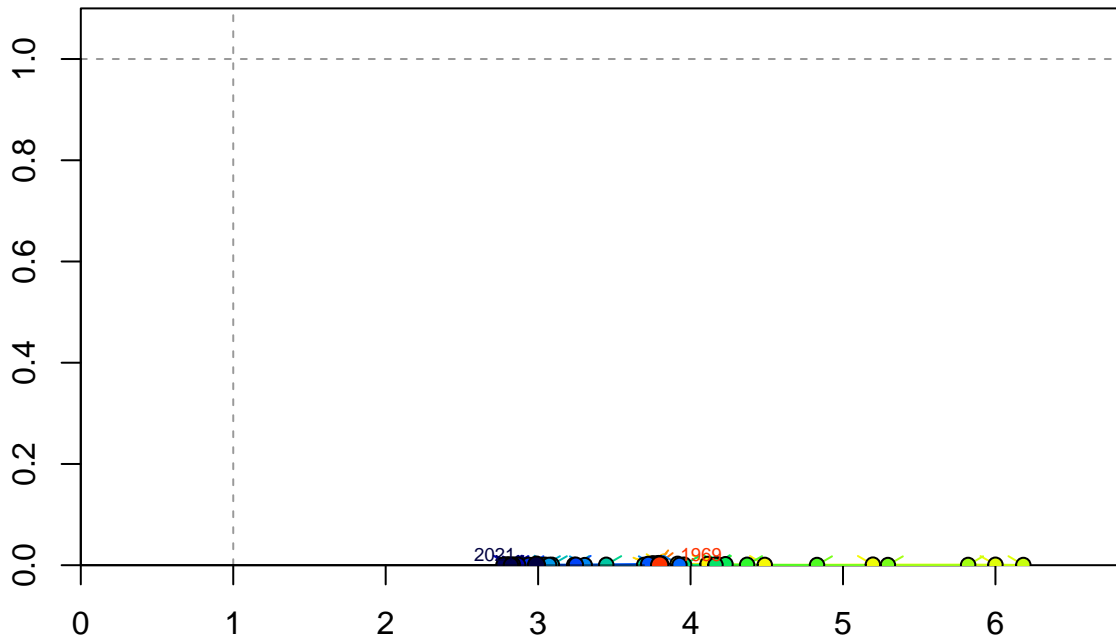
Year



Fishing intensity: 1-SPR

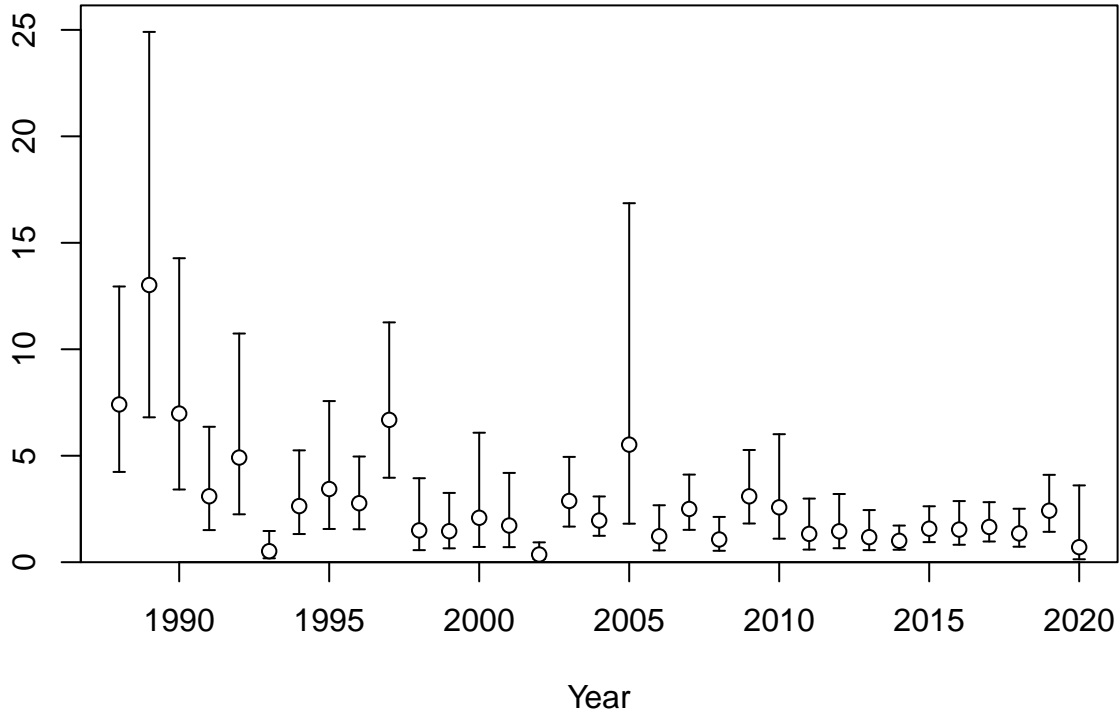


Fishing intensity: 1-SPR

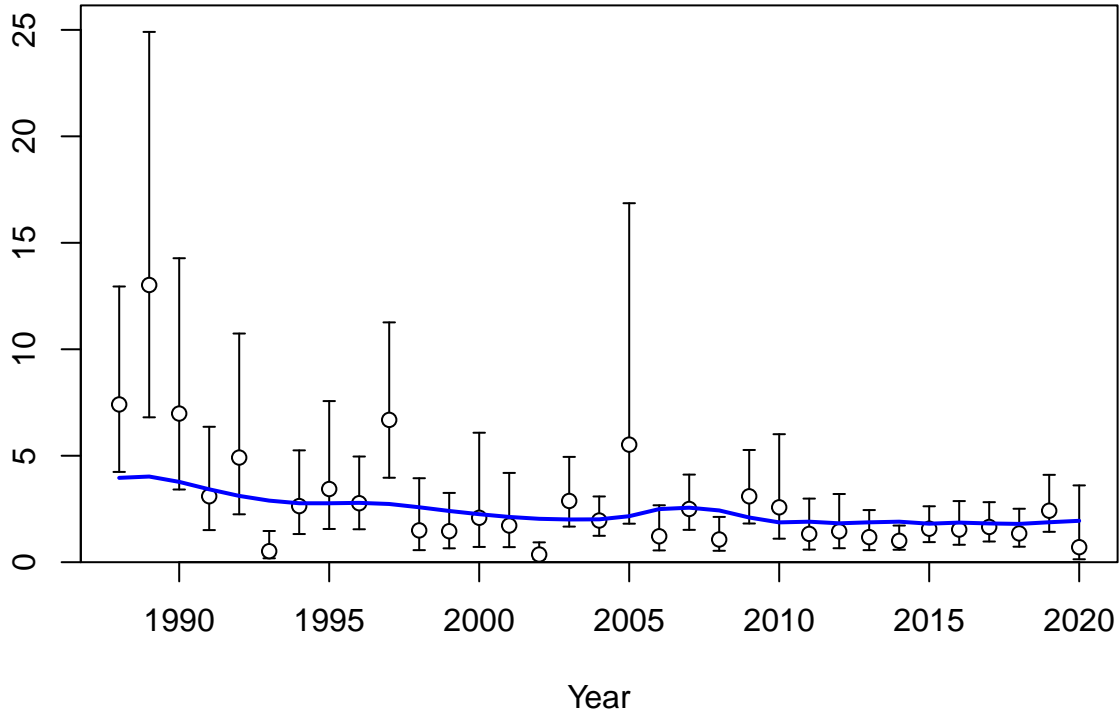


Relative spawning output: B/B_{MSY}

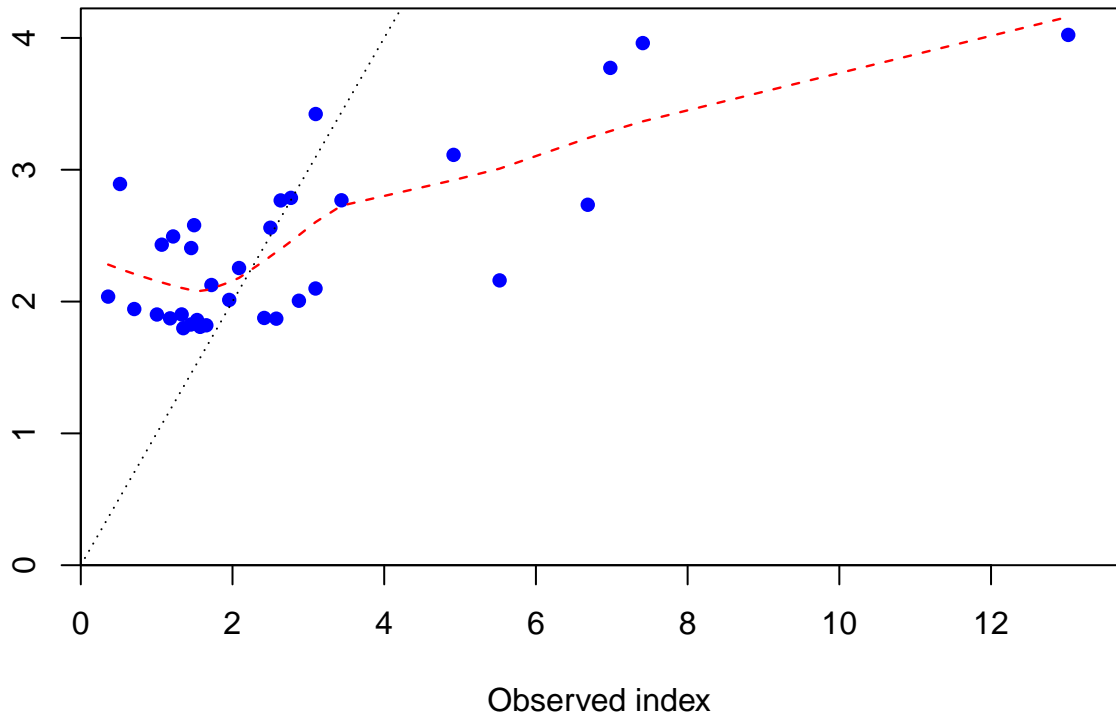
Index



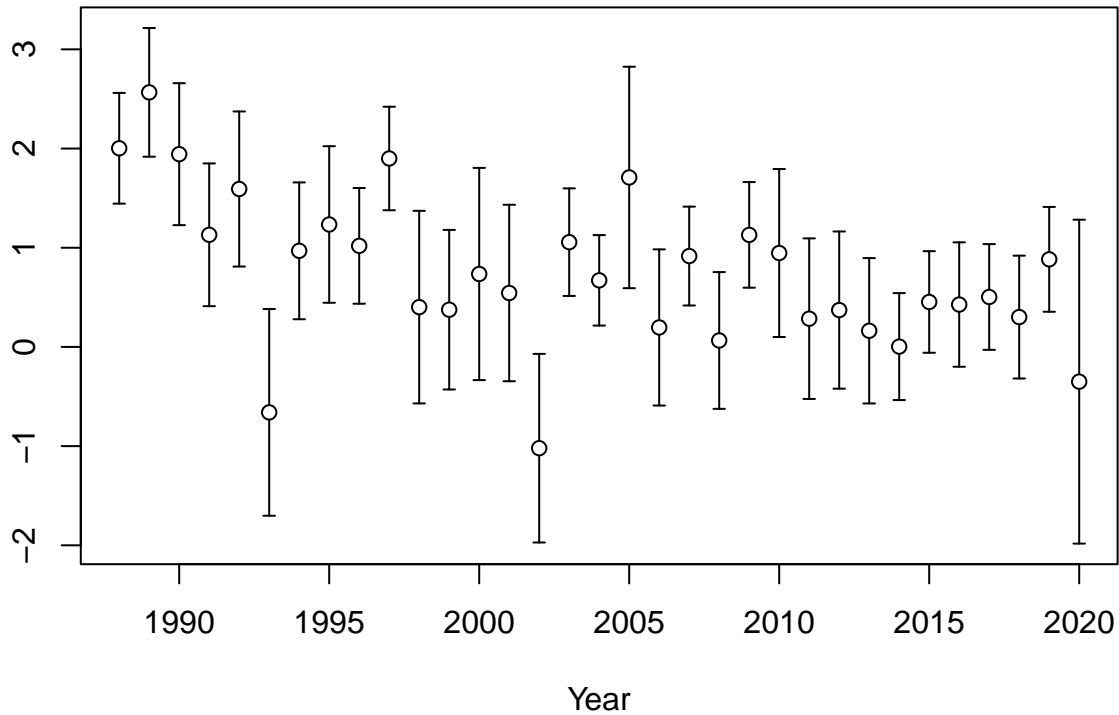
Index

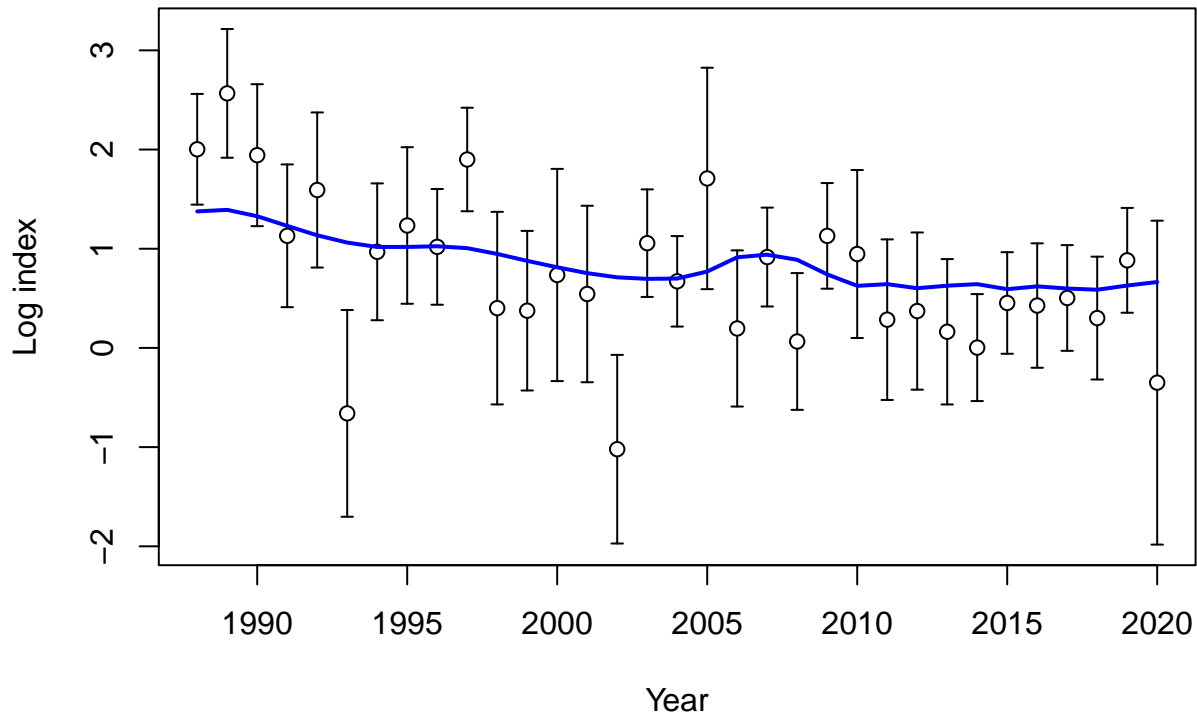


Expected index

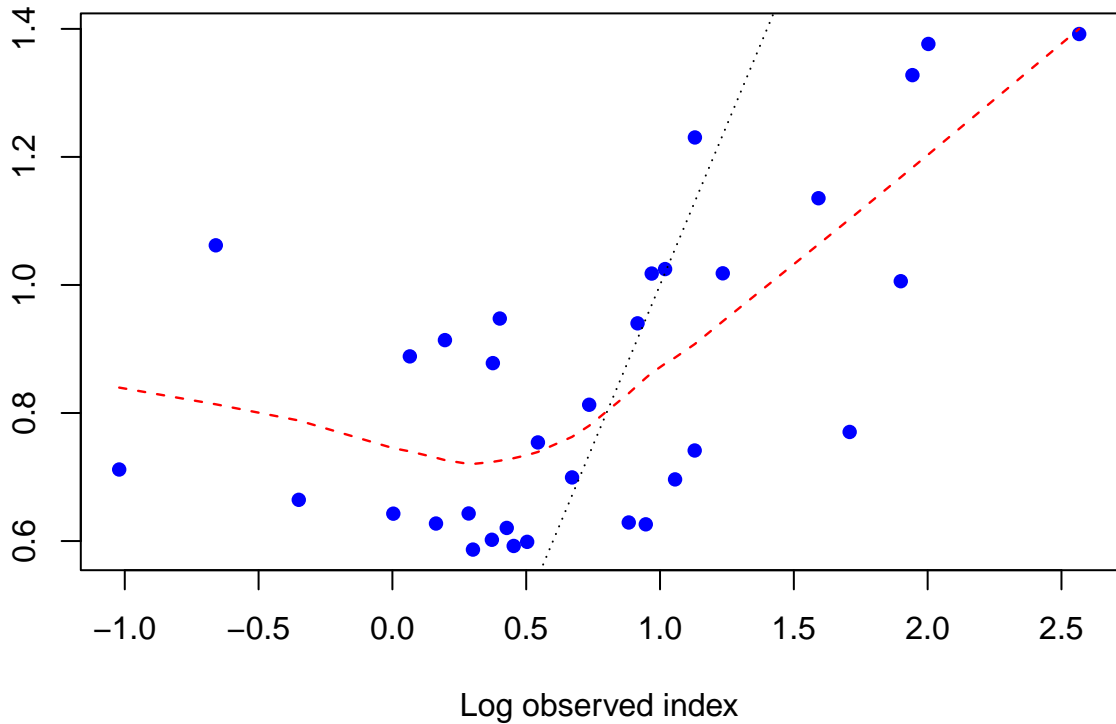


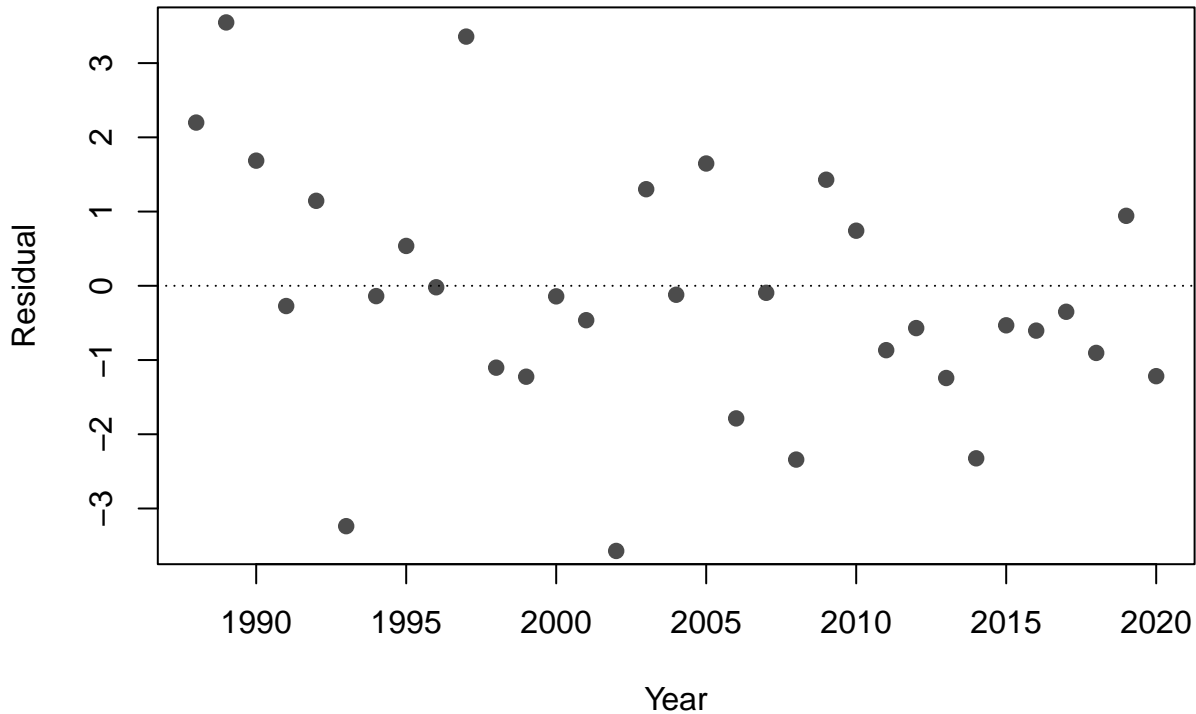
Log index

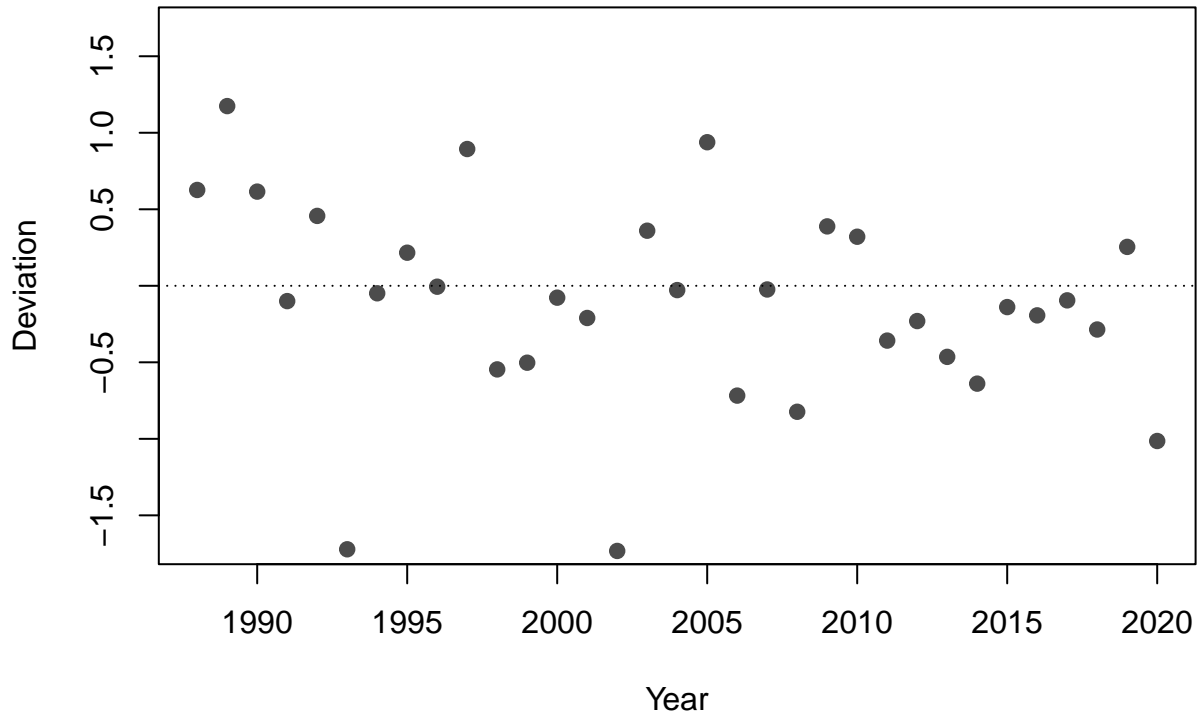


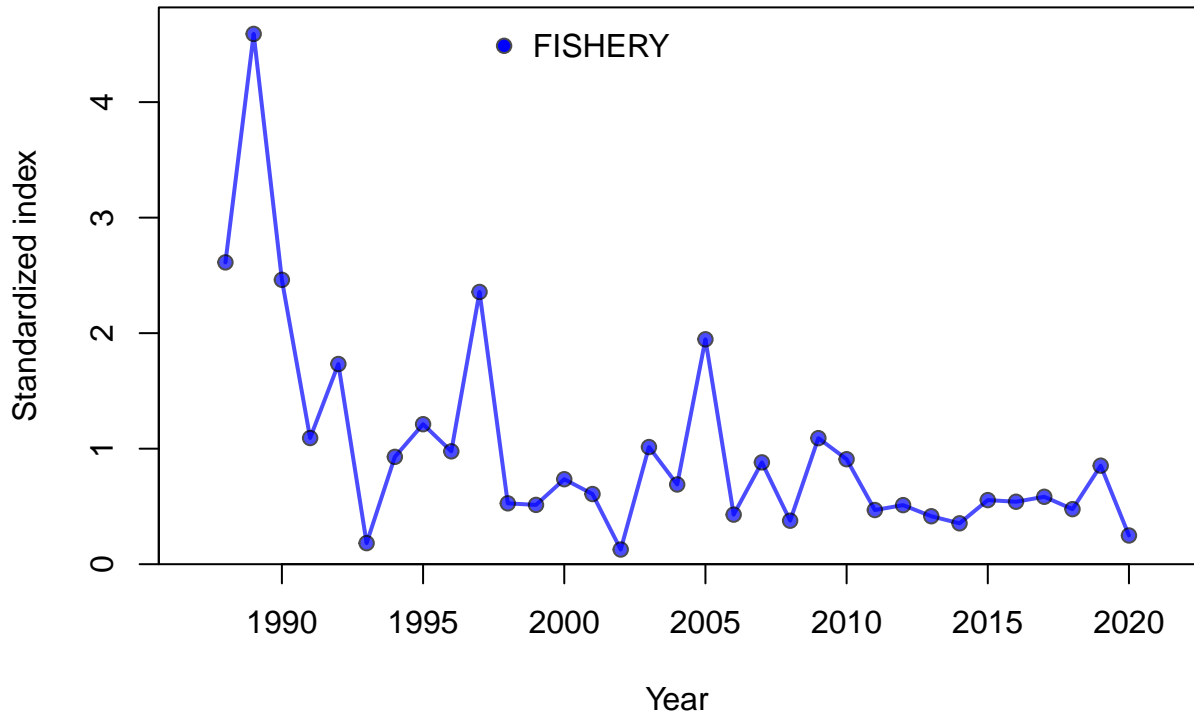


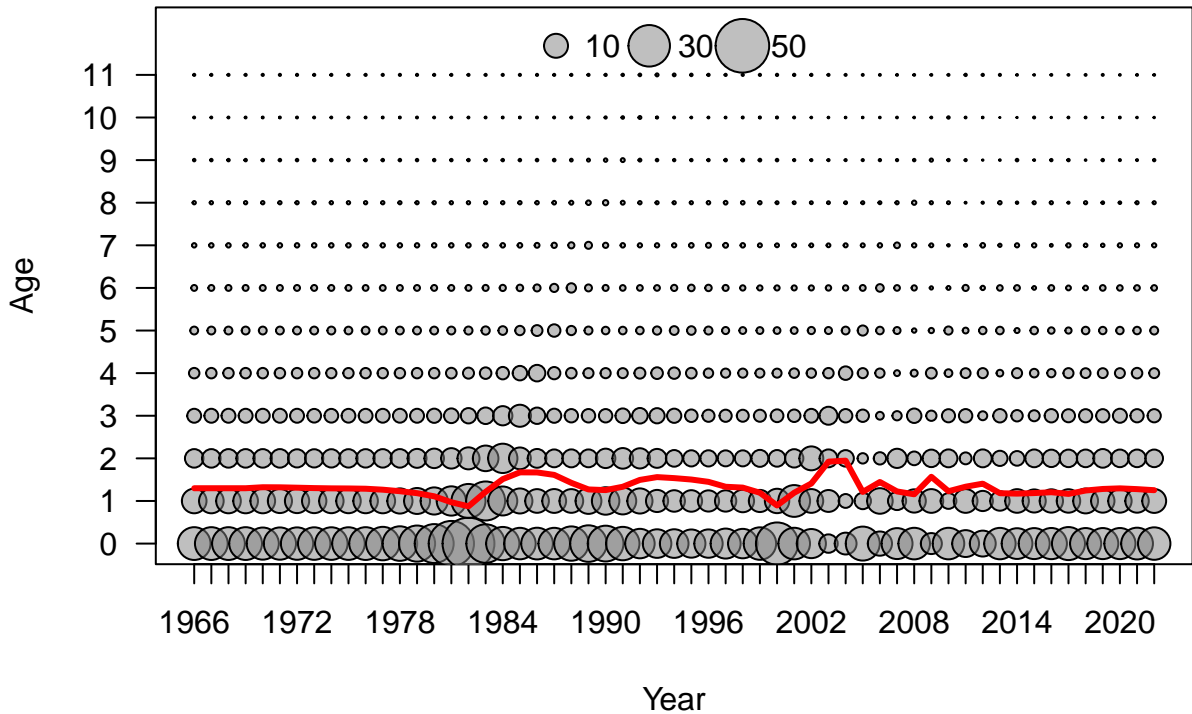
Log expected index



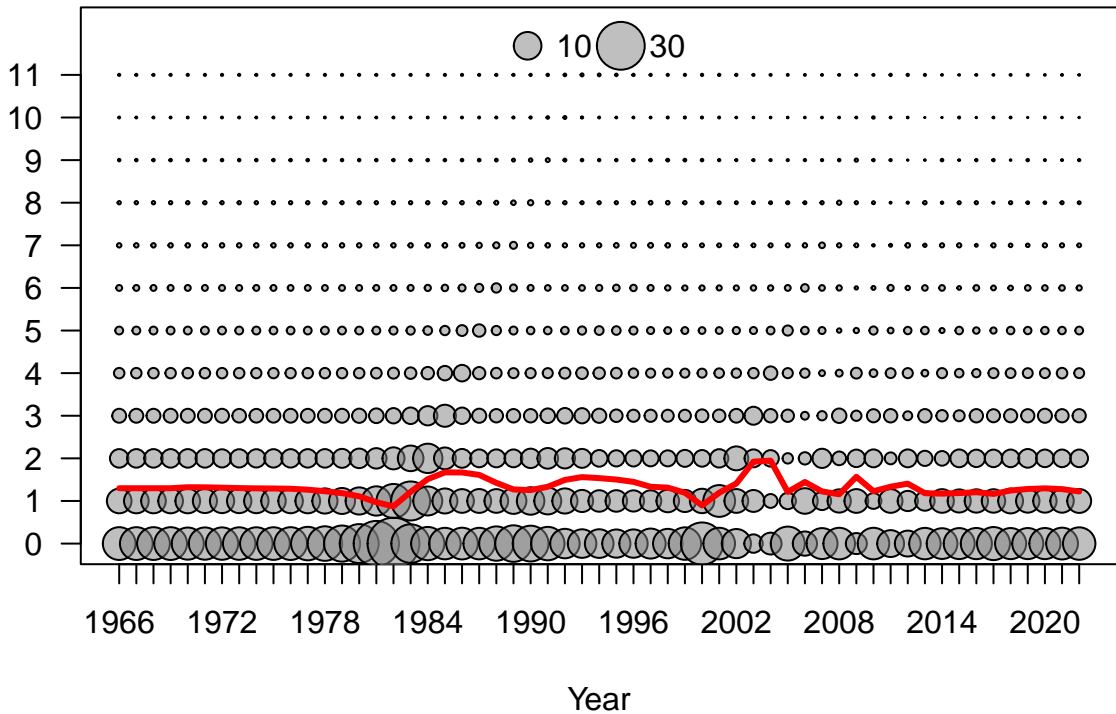


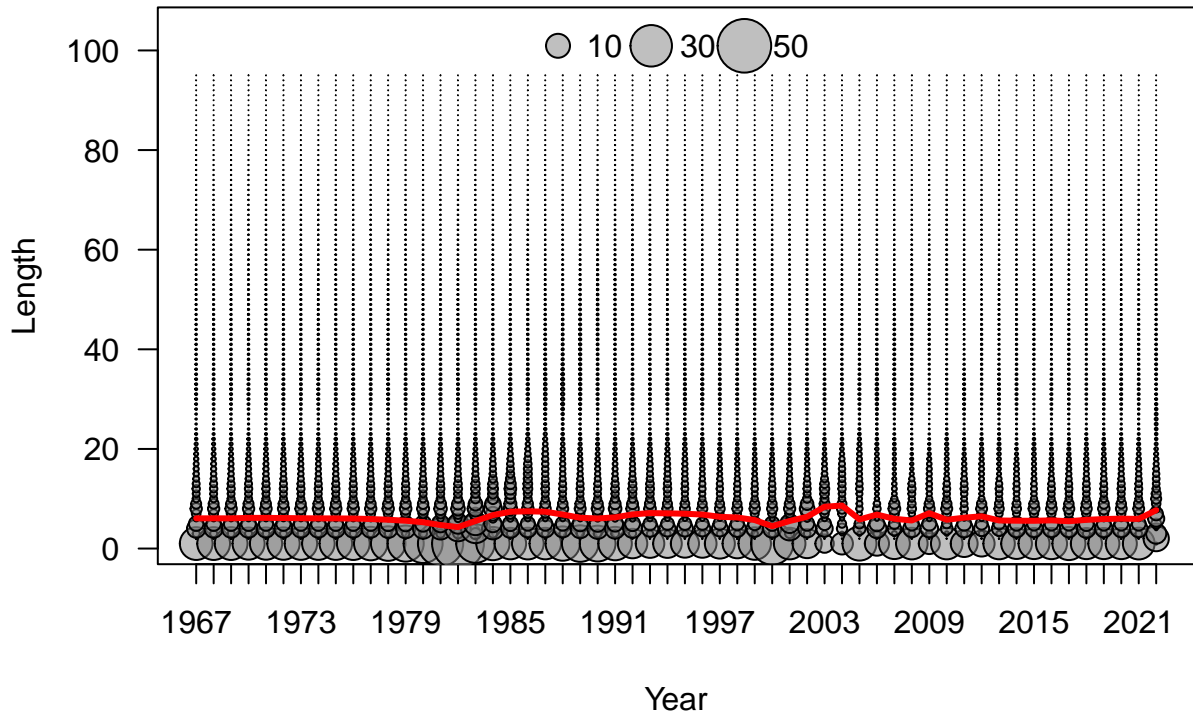


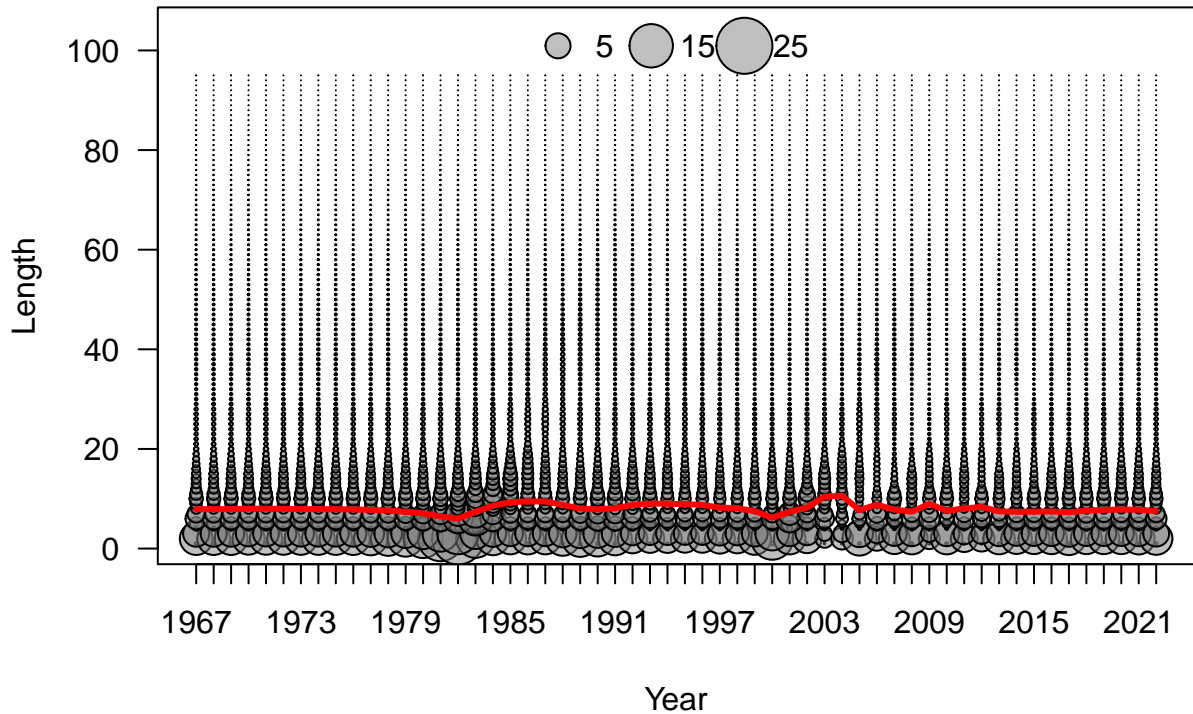


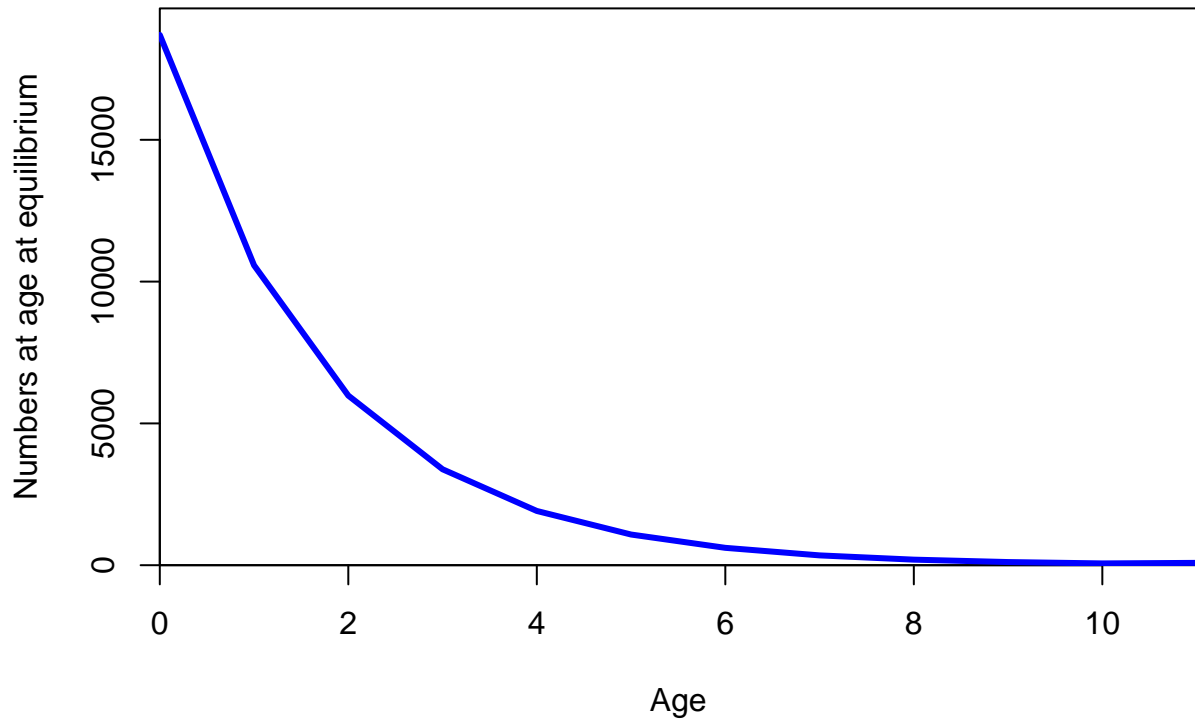


Age



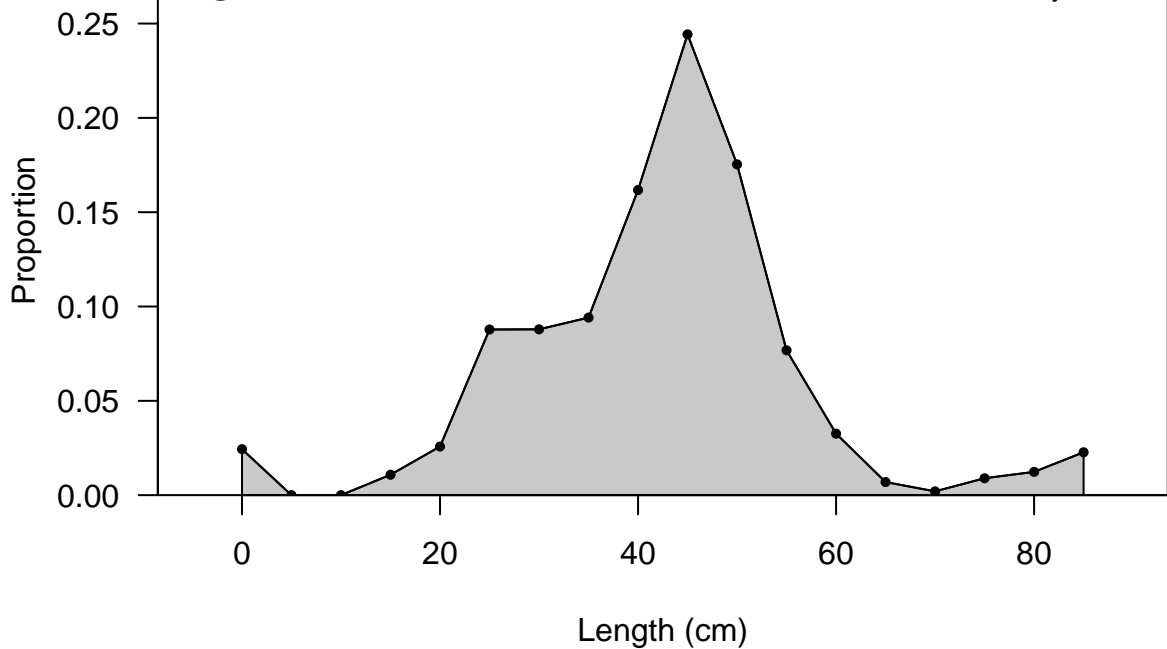


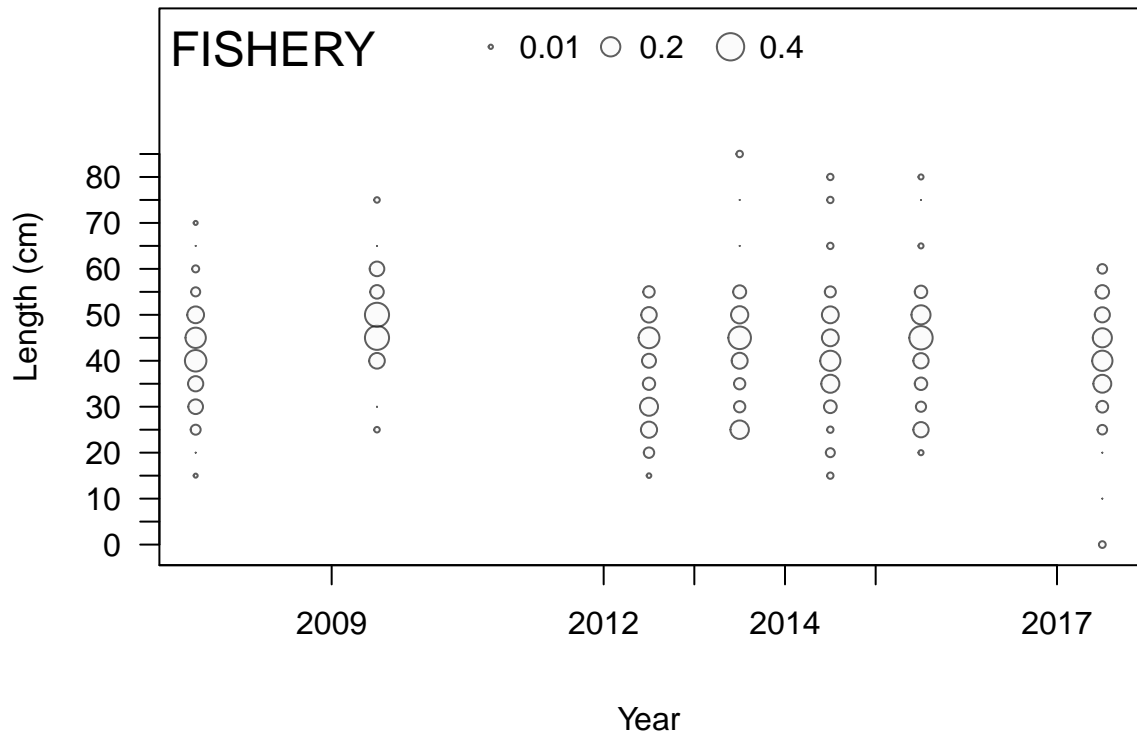




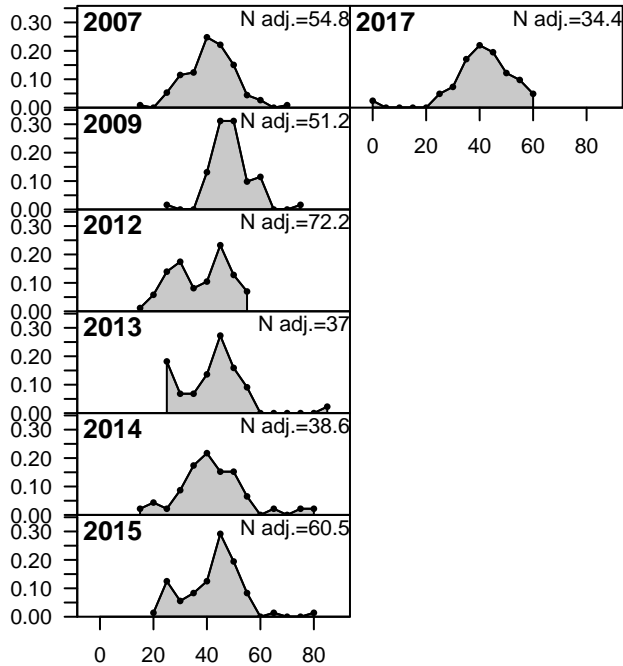
FISHERY

Sum of N adj.=348.8

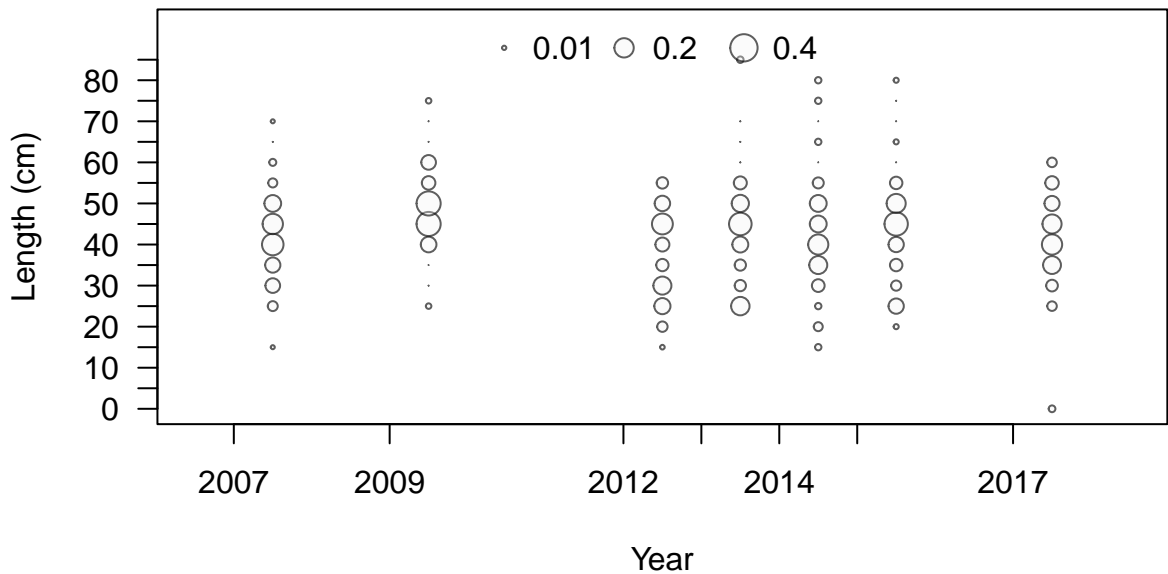




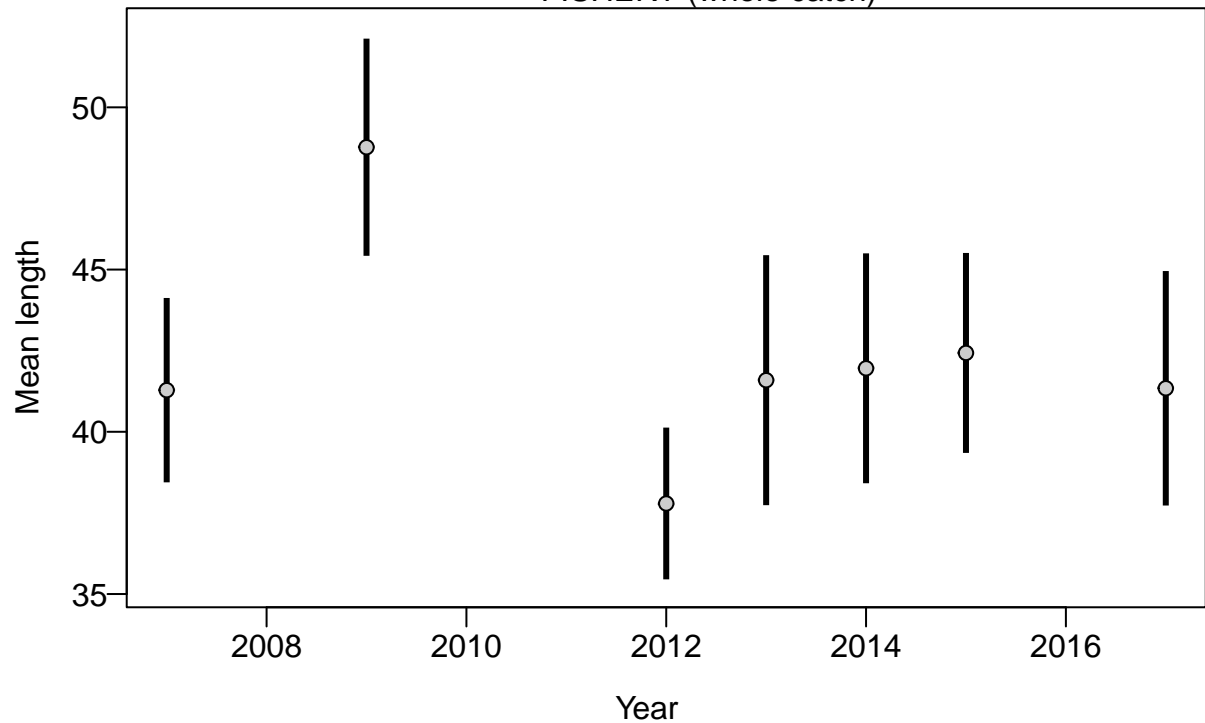
Proportion



Length (cm)

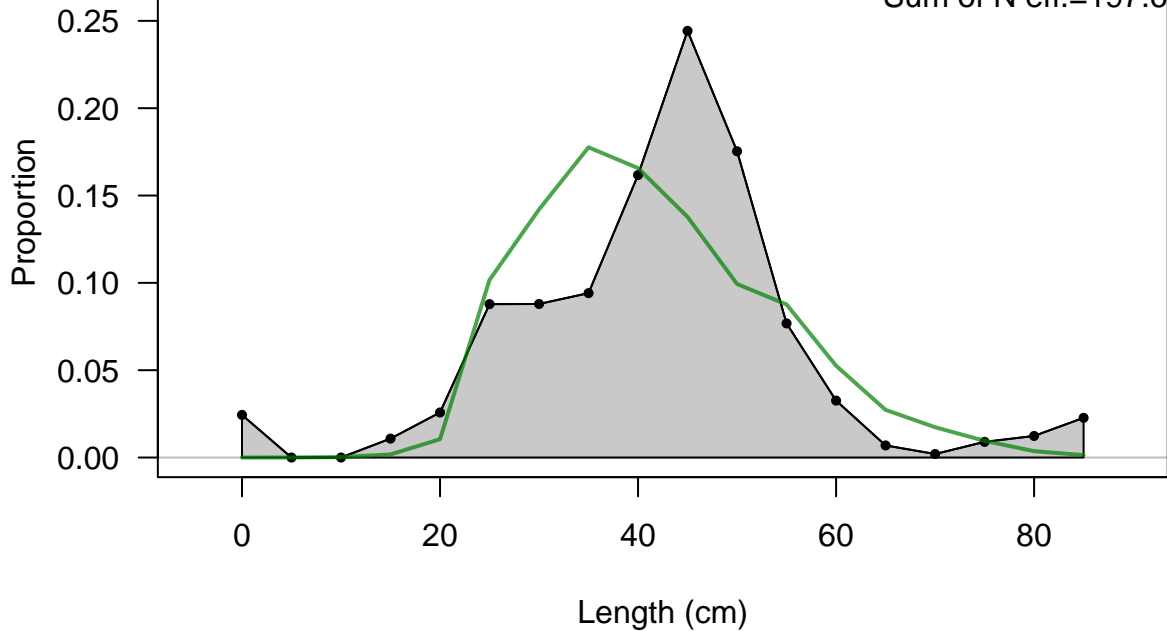


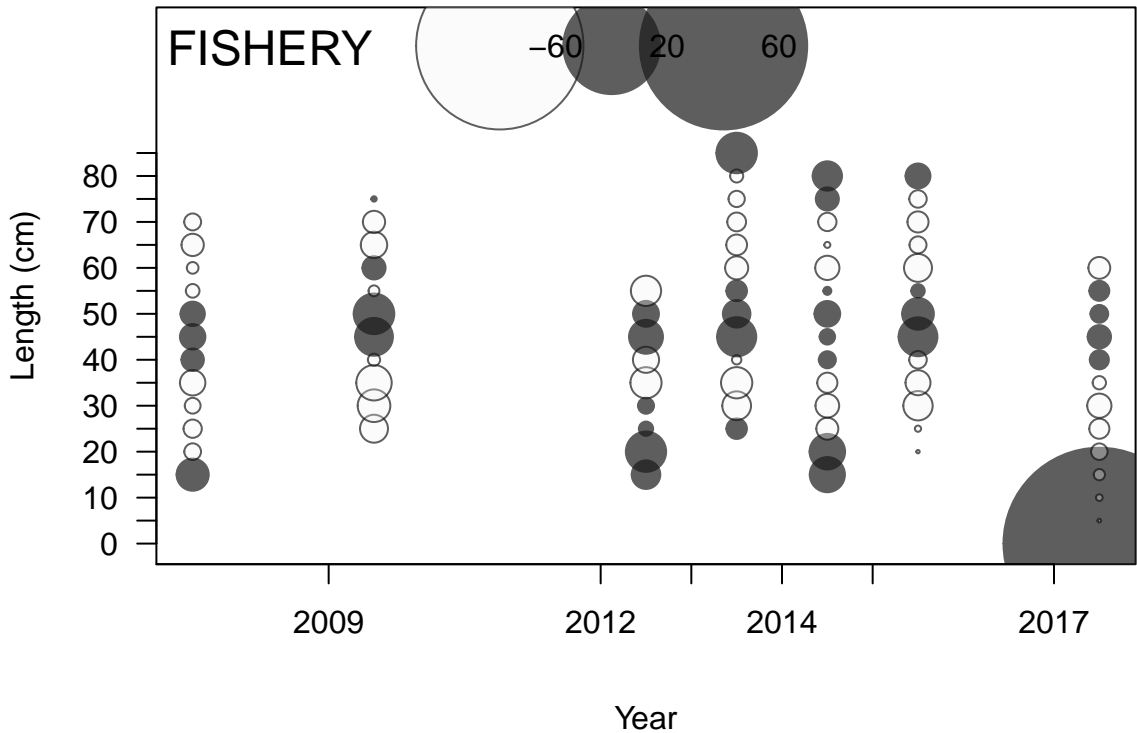
FISHERY (whole catch)



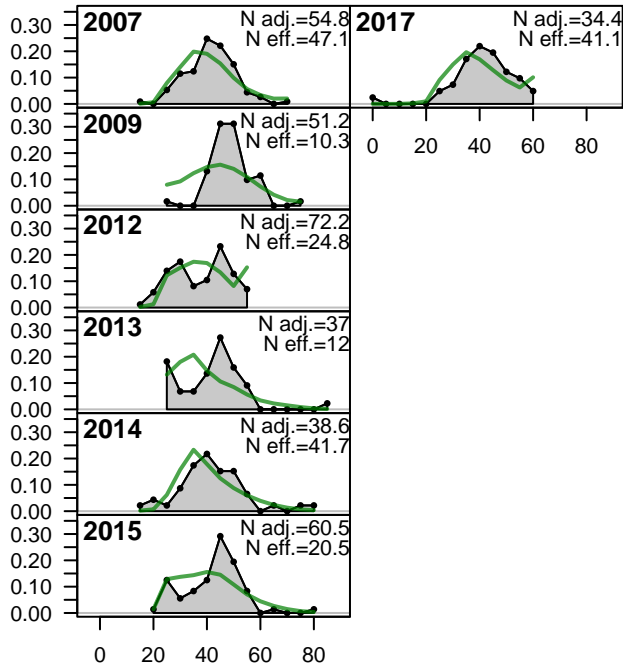
FISHERY

Sum of N adj.=348.8
Sum of N eff.=197.6

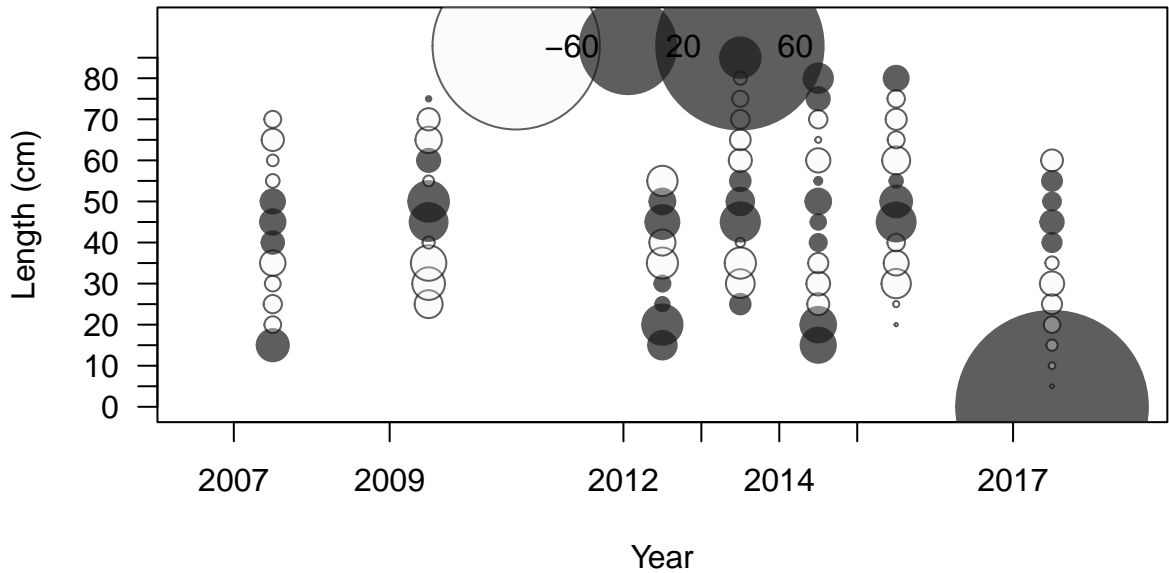




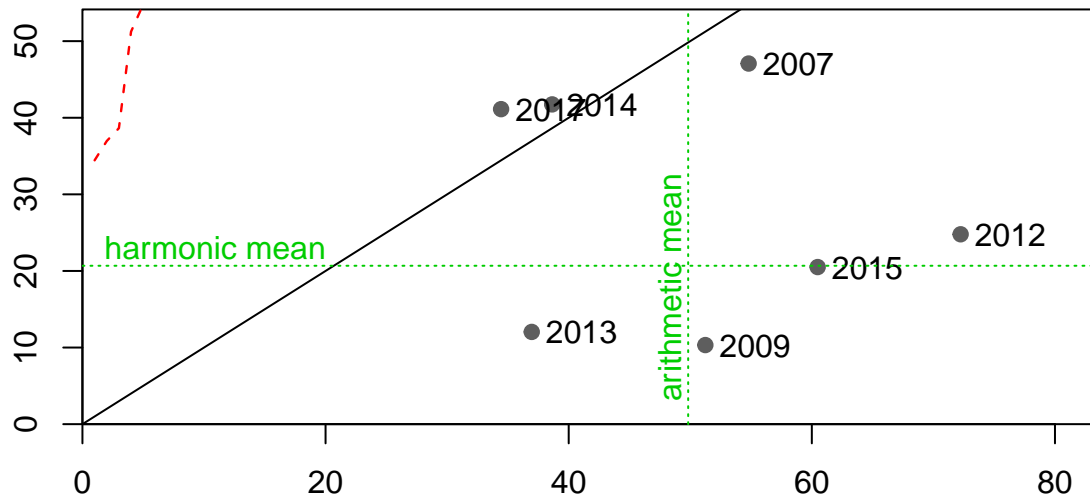
Proportion



Length (cm)

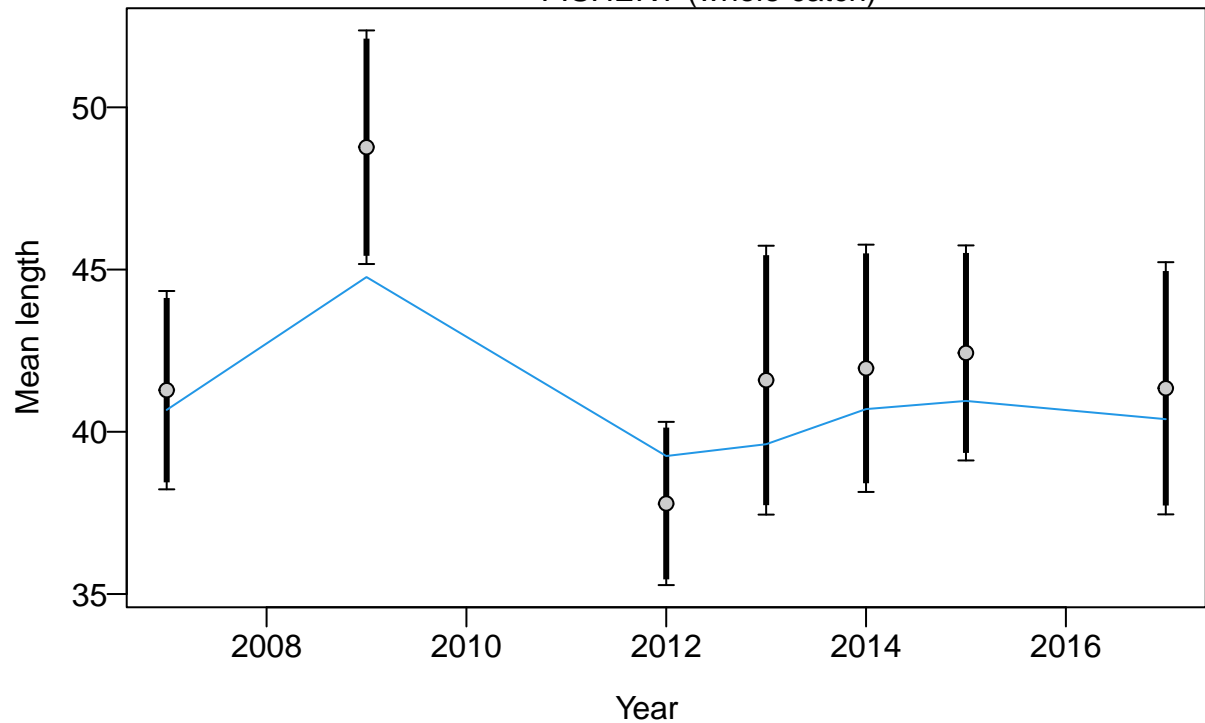


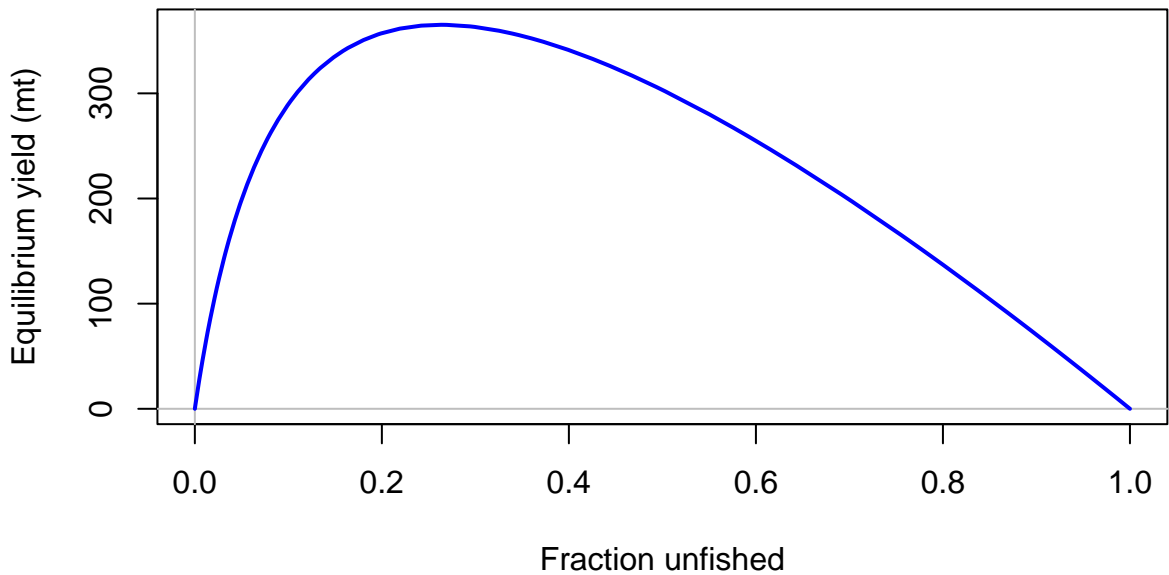
Effective sample size

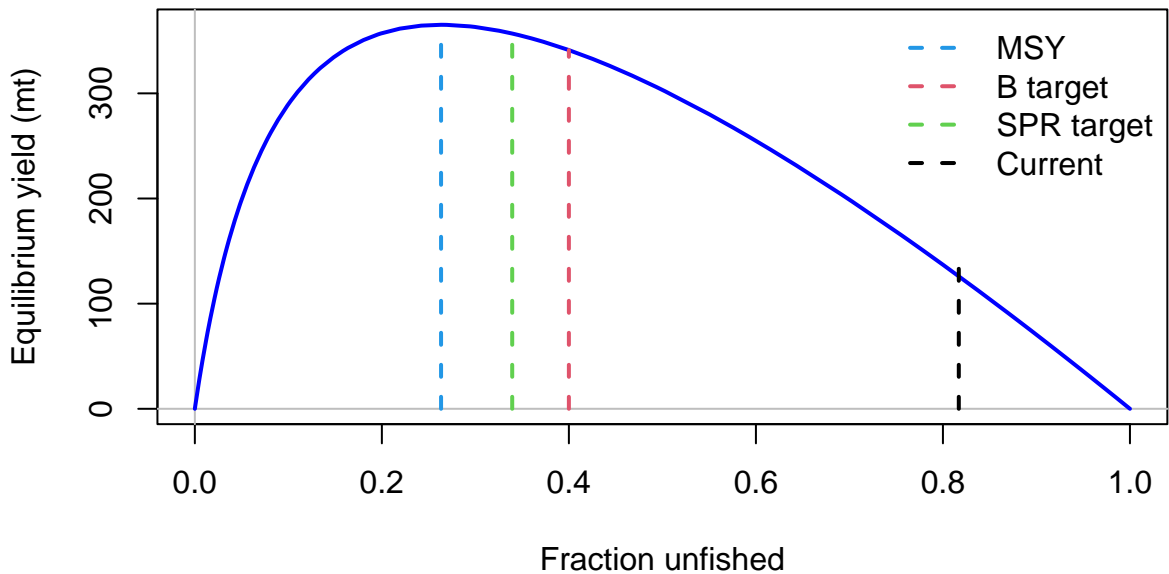


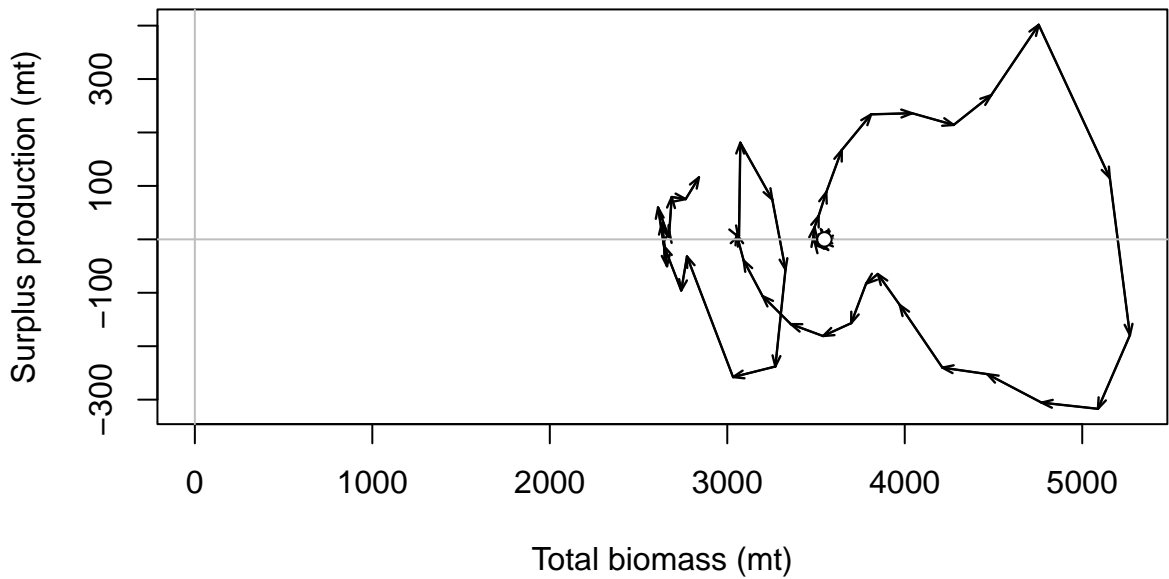
Observed sample size

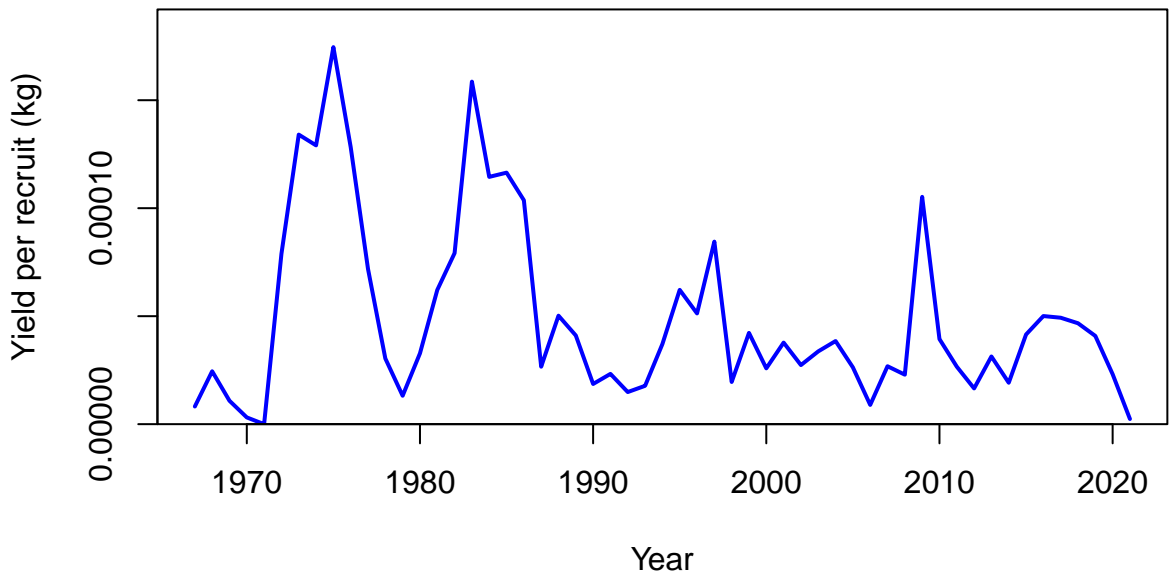
FISHERY (whole catch)

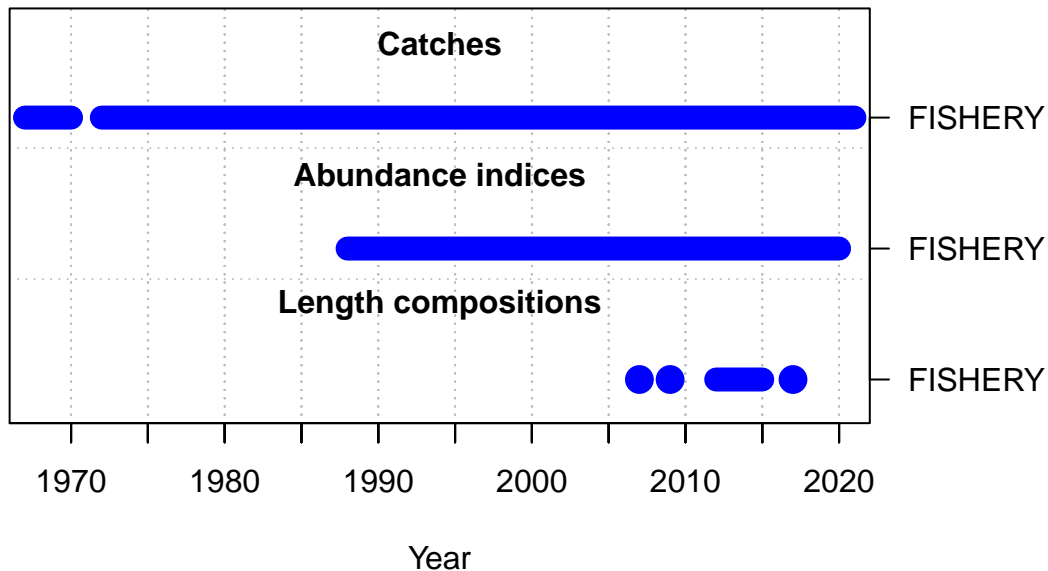


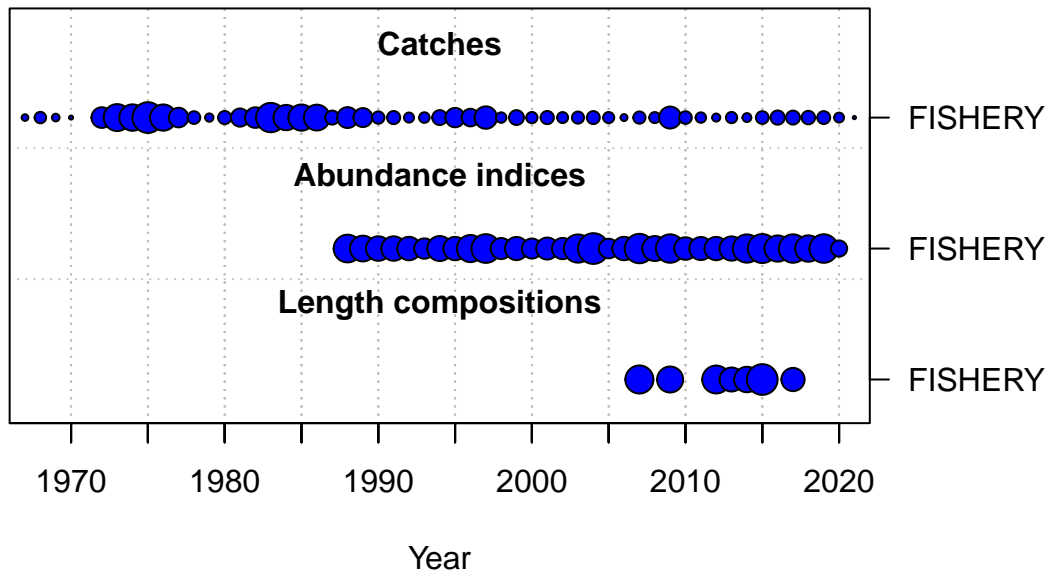












Density

