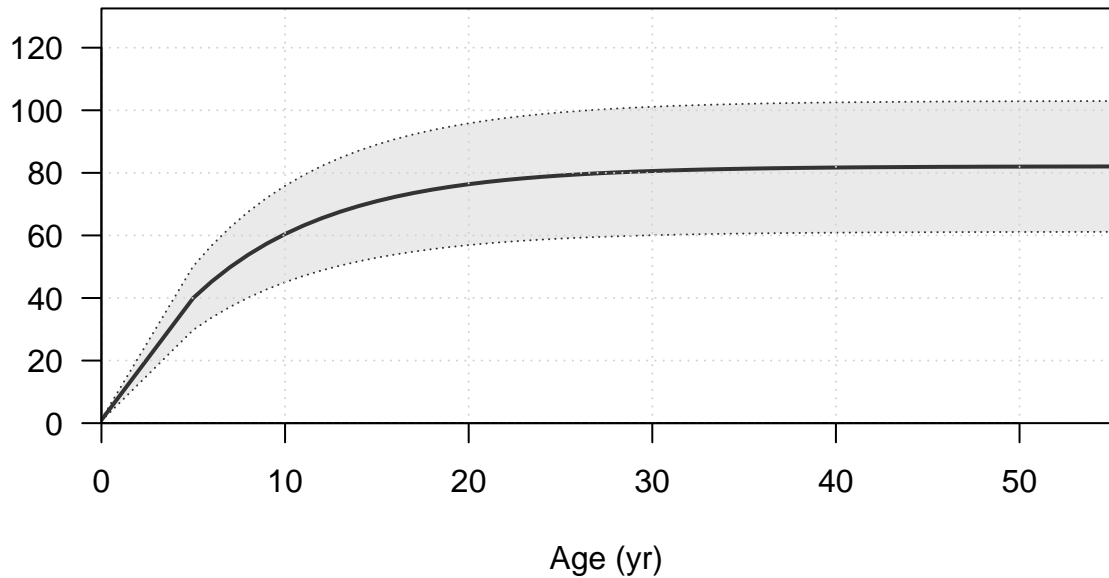
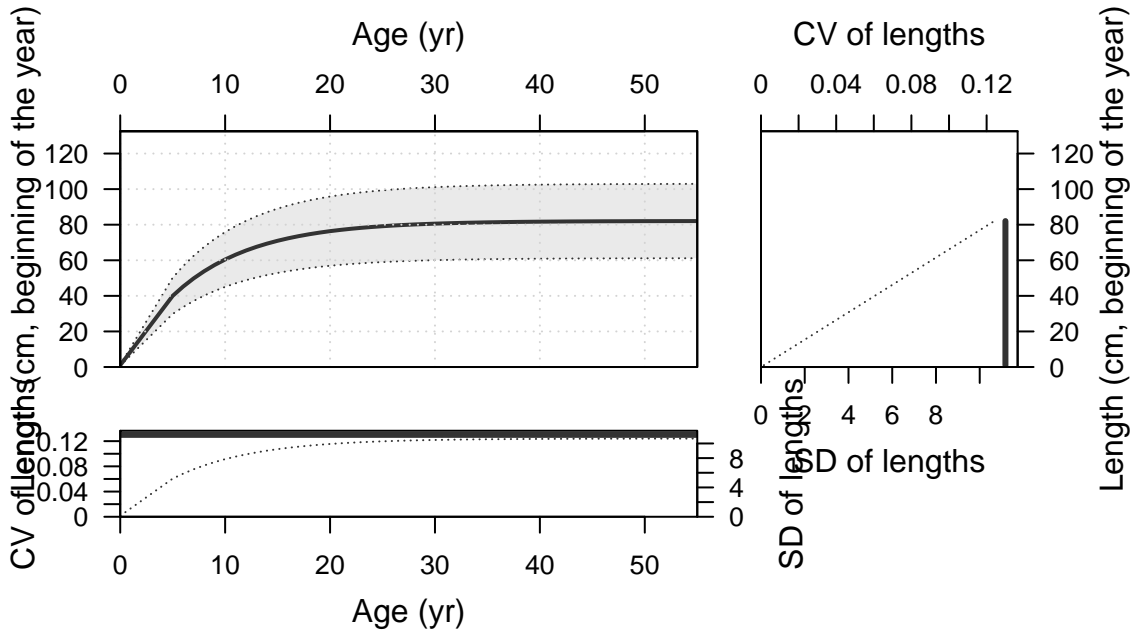
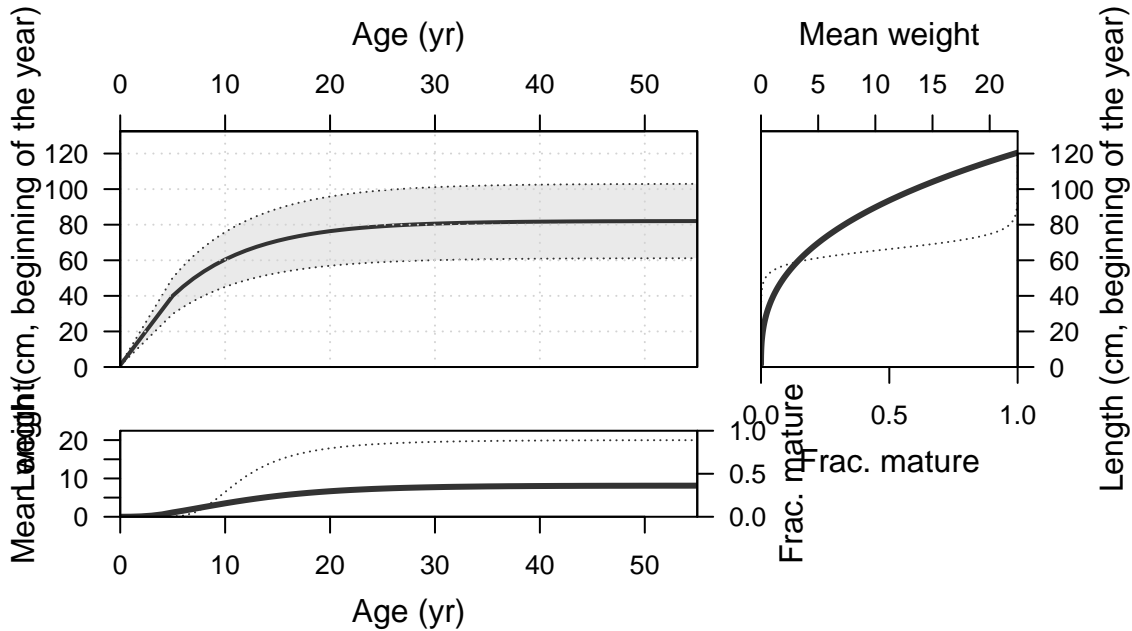


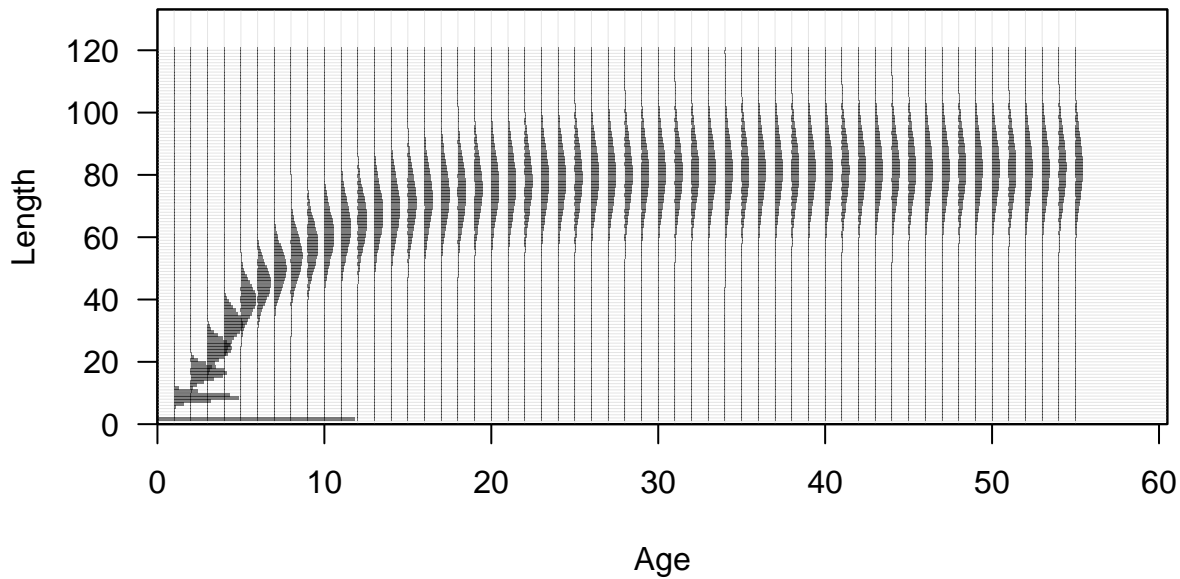
Plots created using the 'r4ss' package in R
Stock Synthesis version: 3.30.19.0
StartTime: Wed Jun 29 12:16:26 2022
Data_File: data.ss
Control_File: control.ss

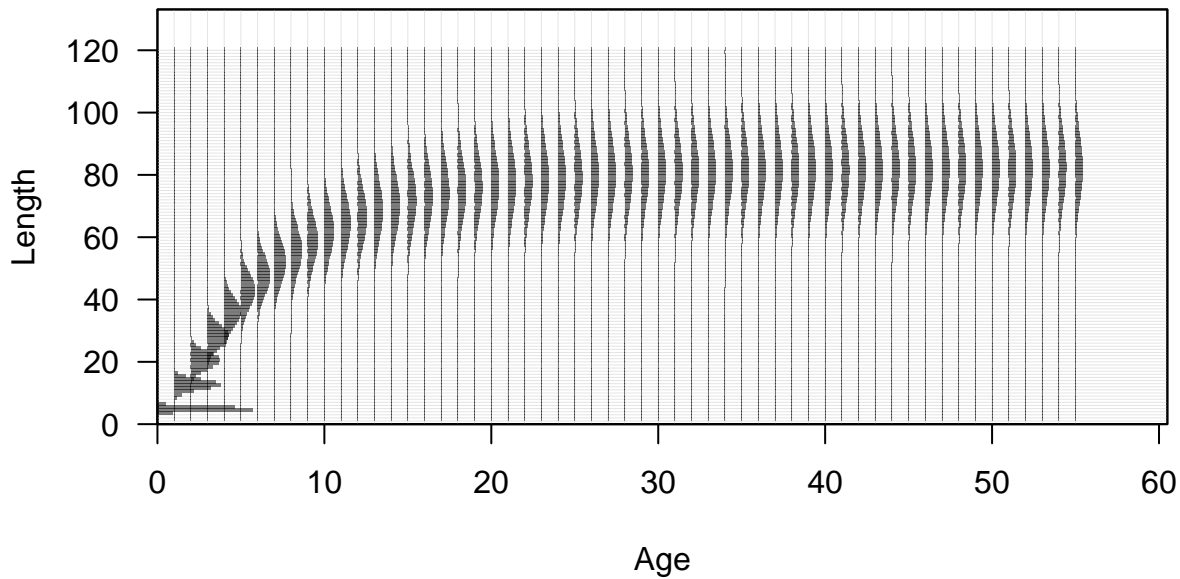
Length (cm, beginning of the year)



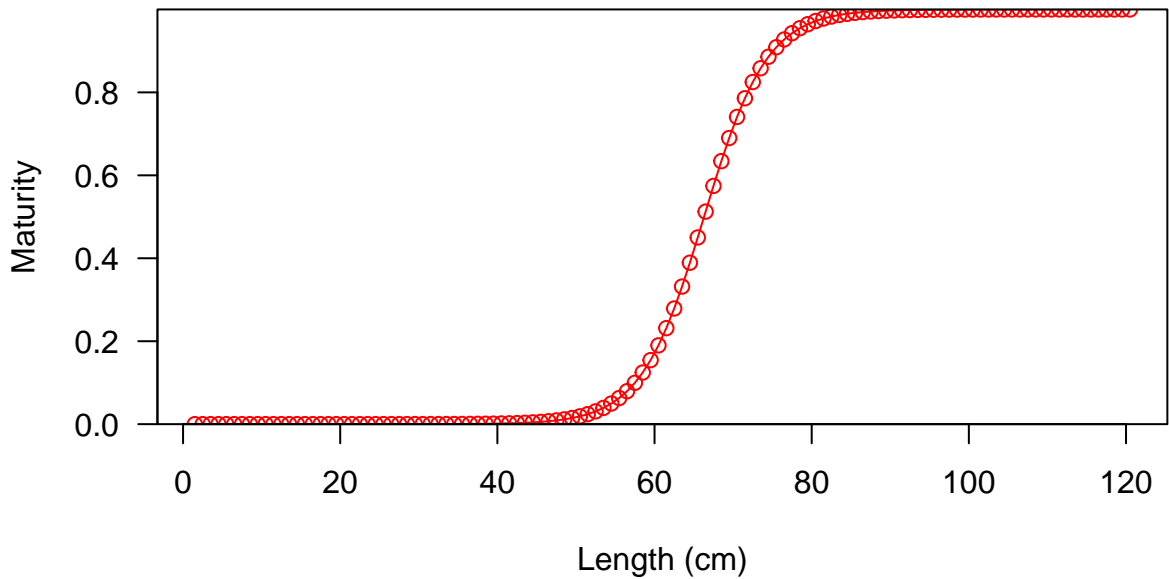






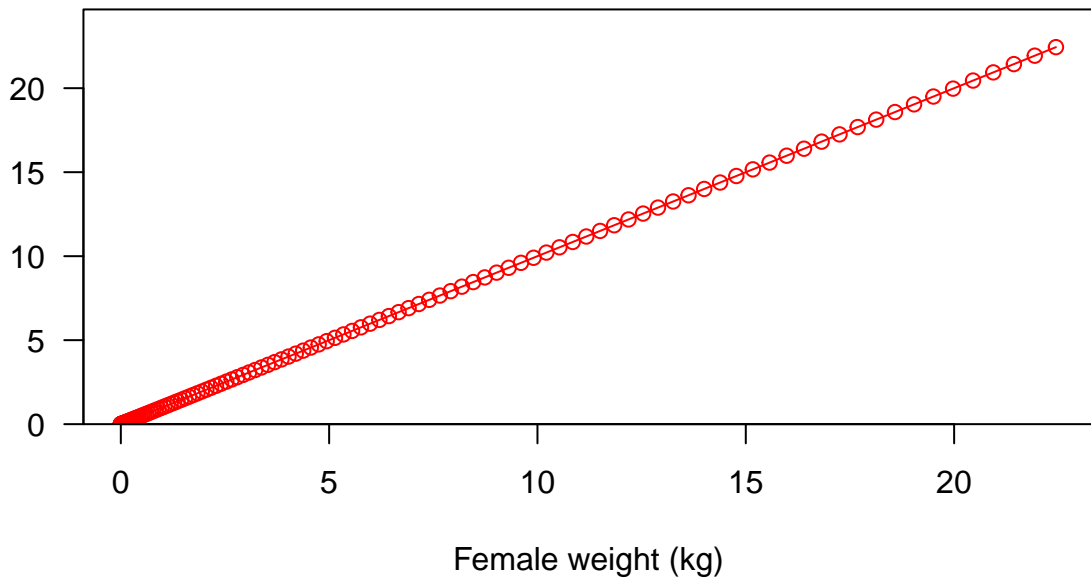






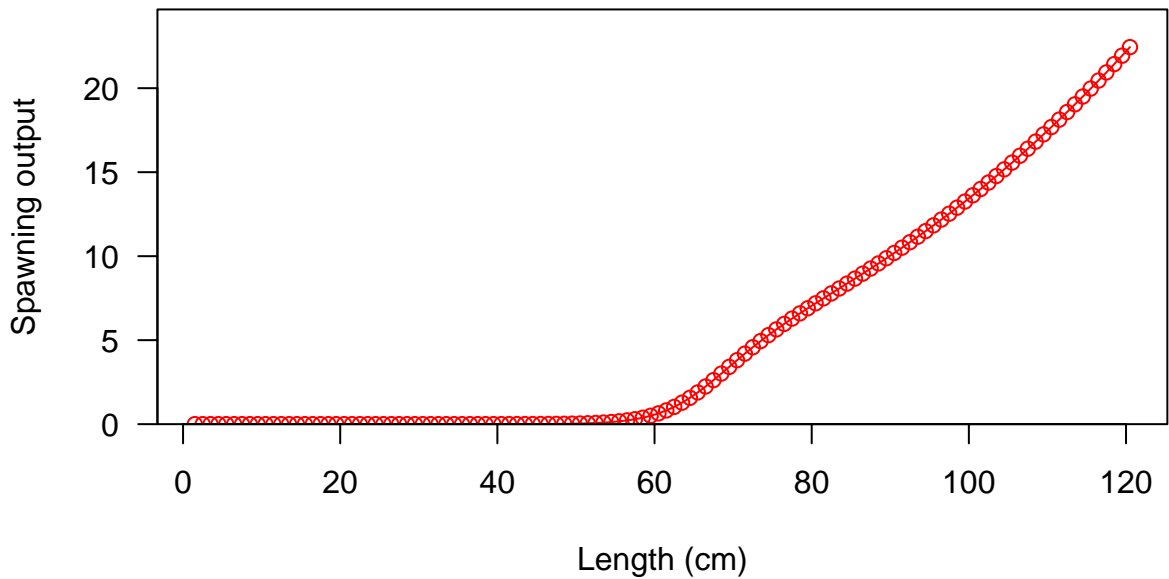


Fecundity

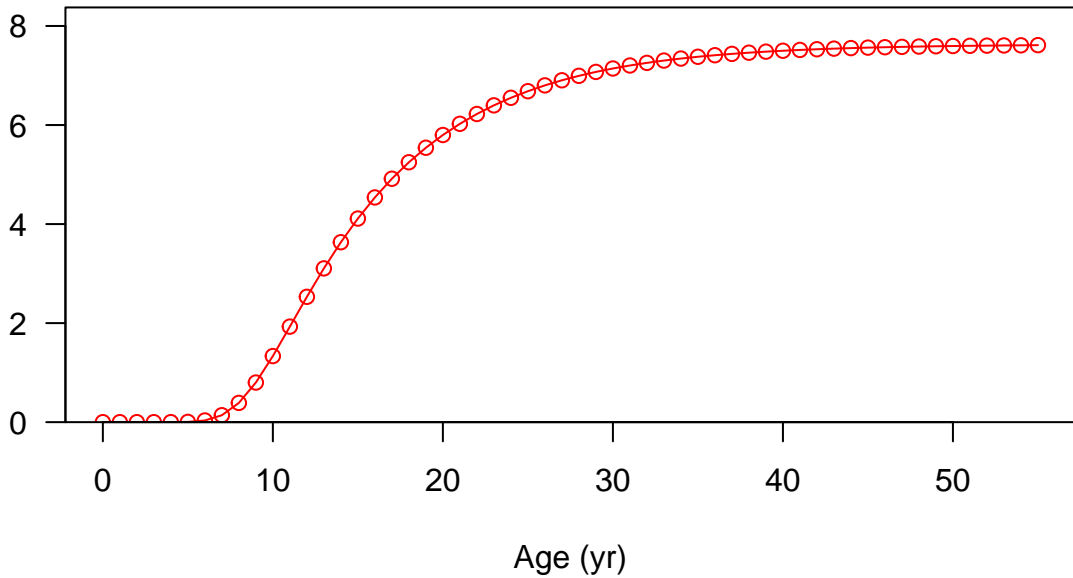


Fecundity

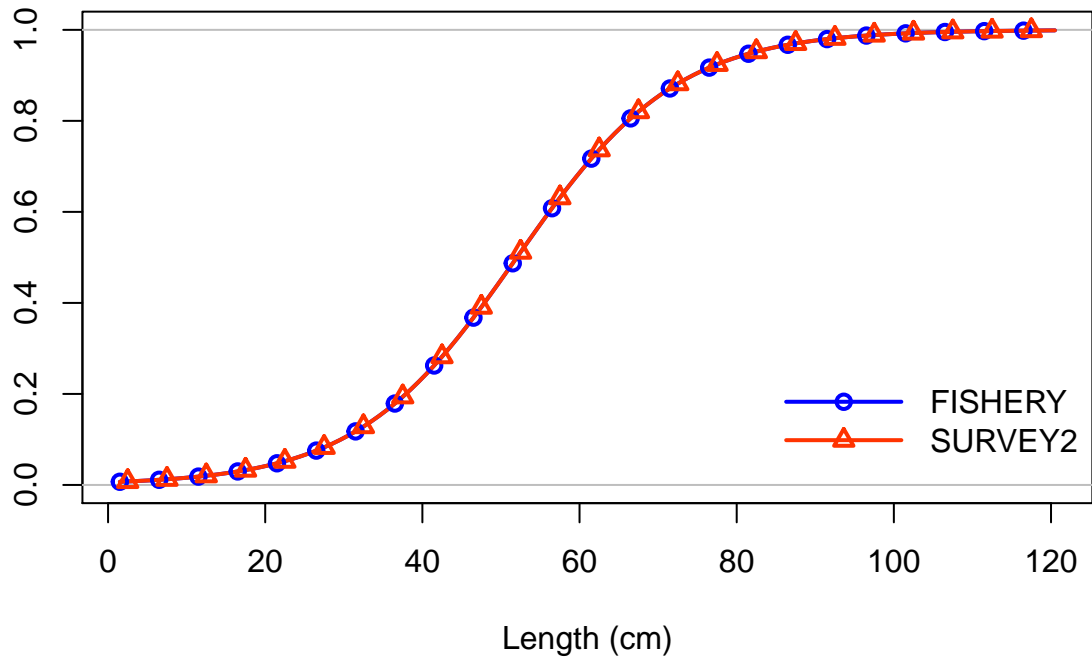




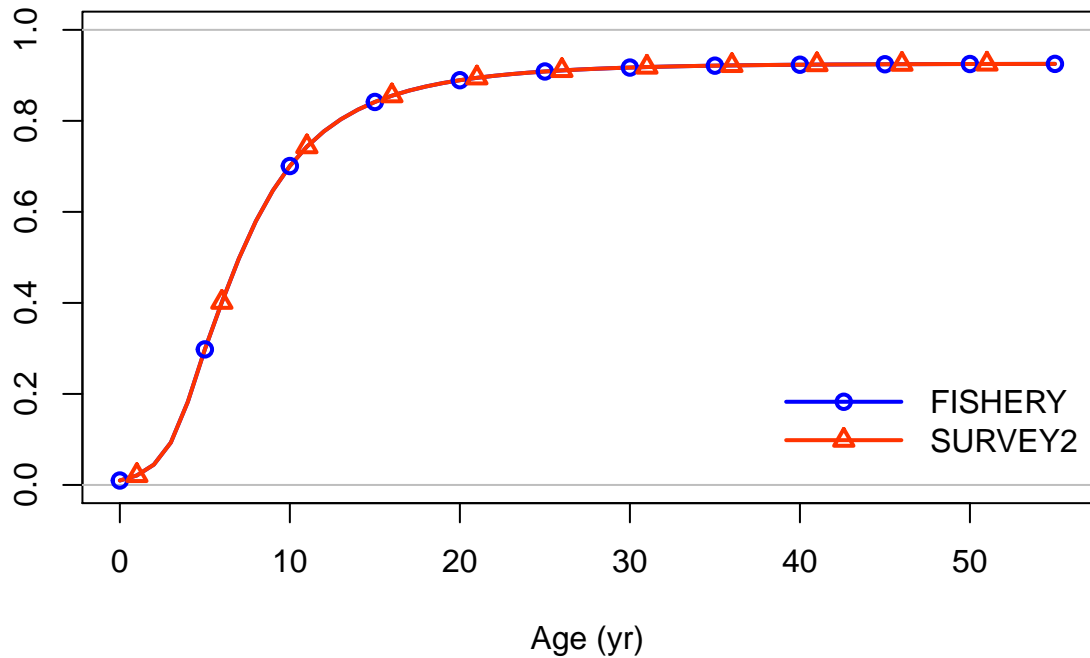
Spawning output



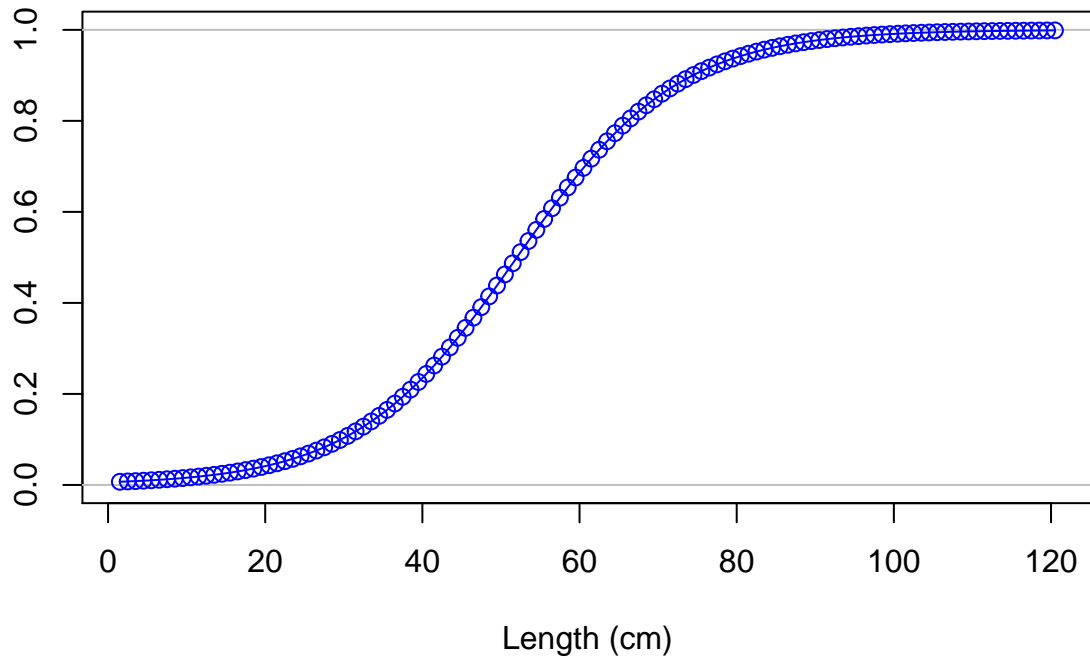
Selectivity



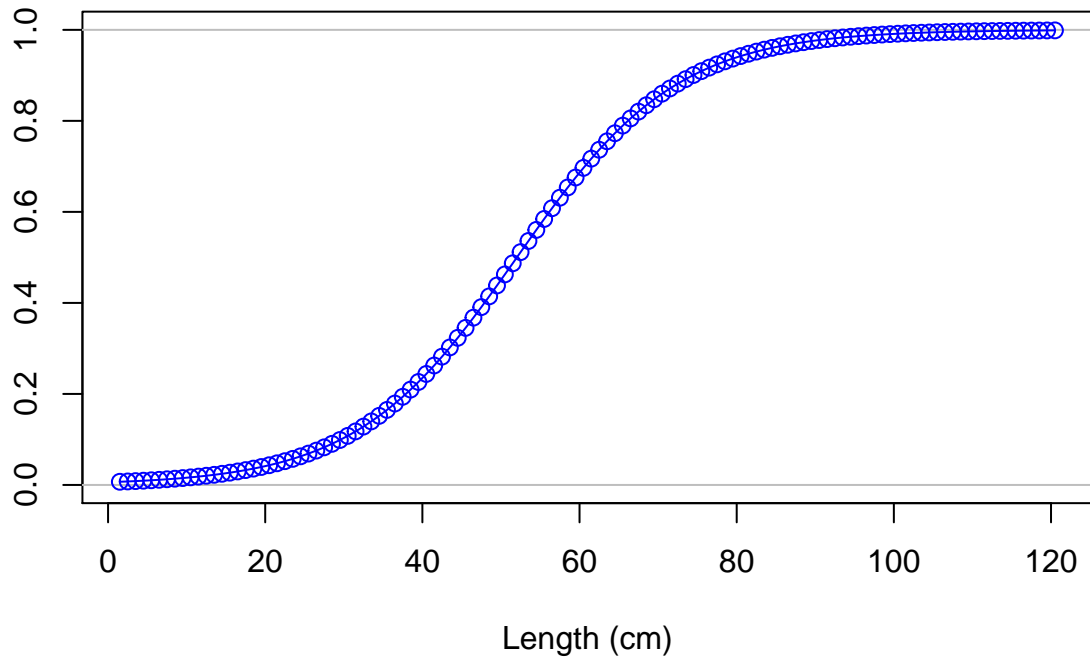
Selectivity

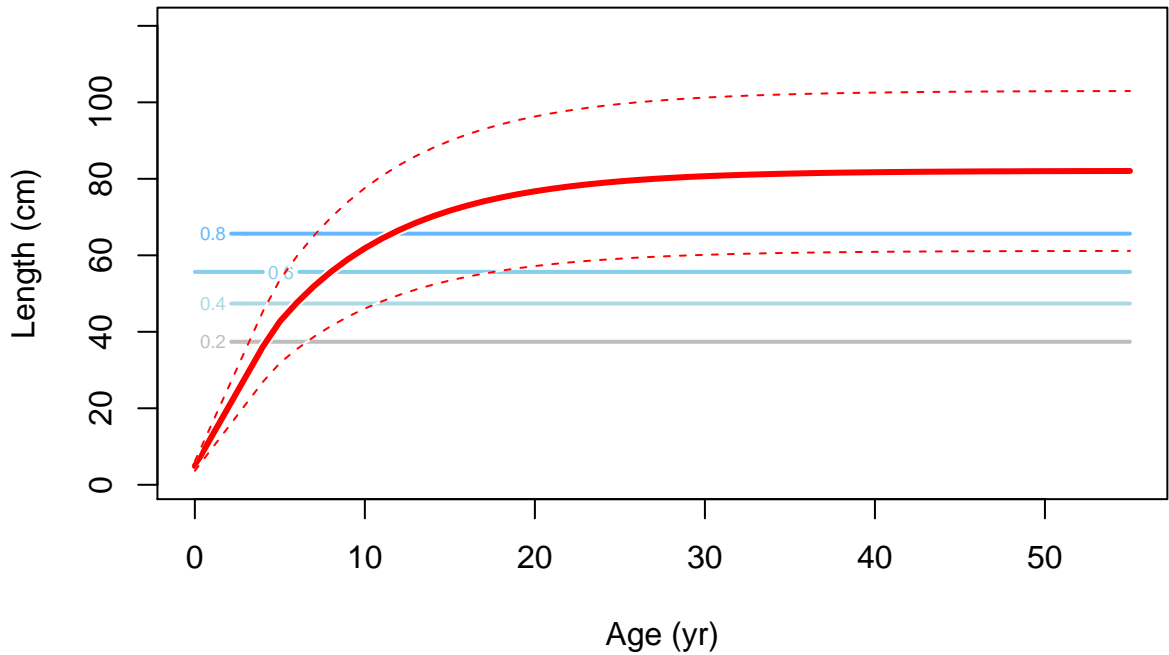


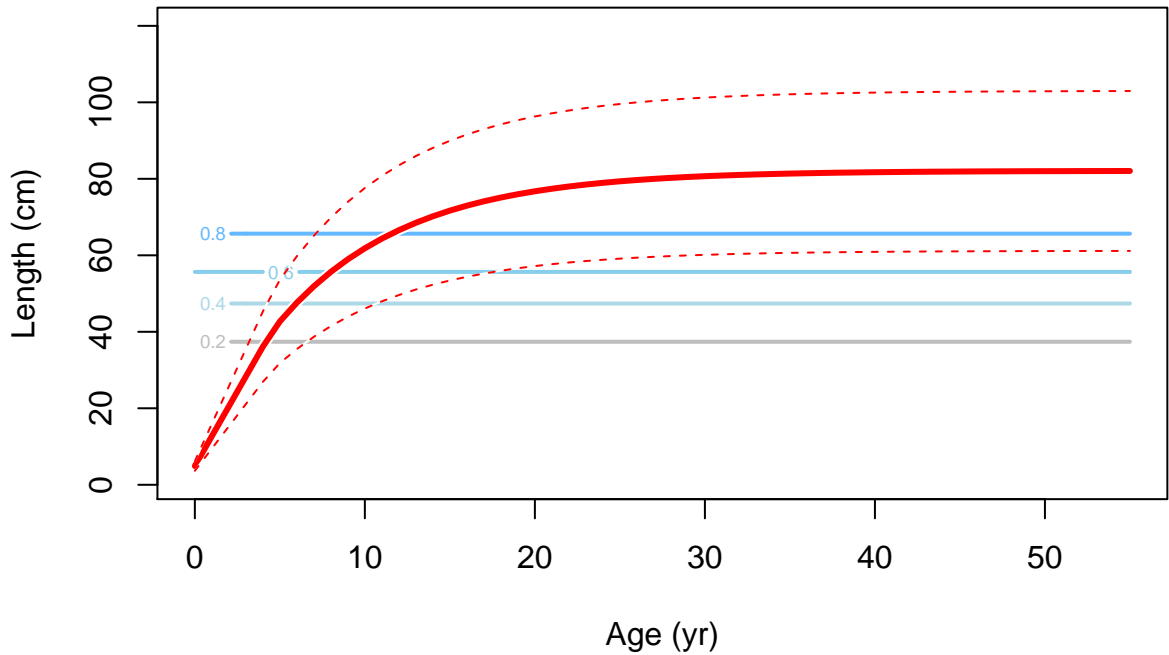
Selectivity



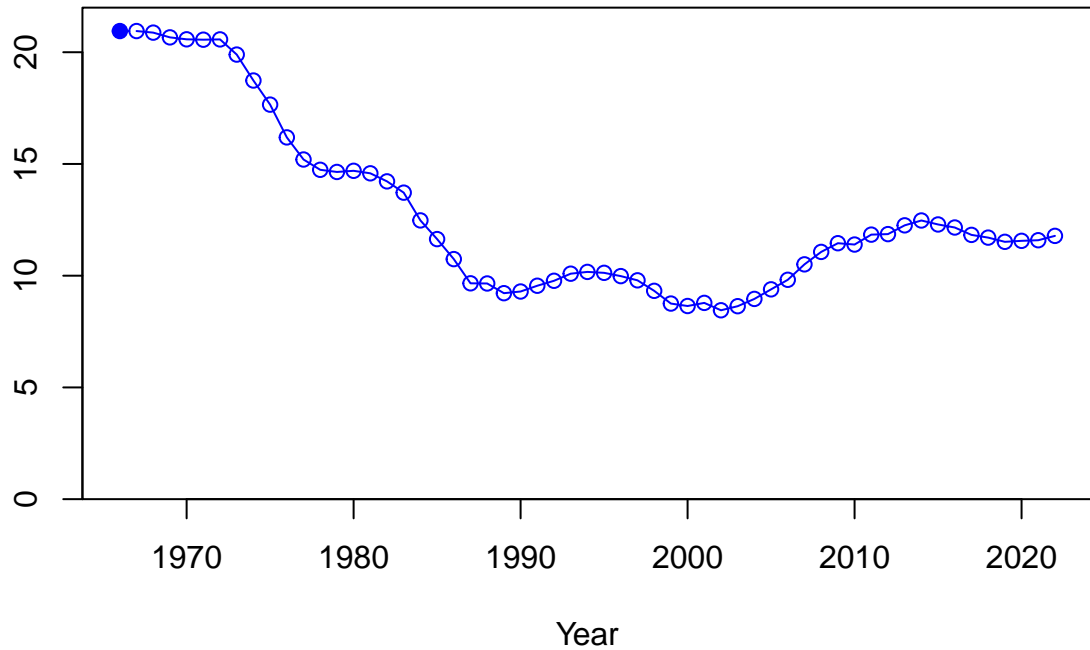
Selectivity

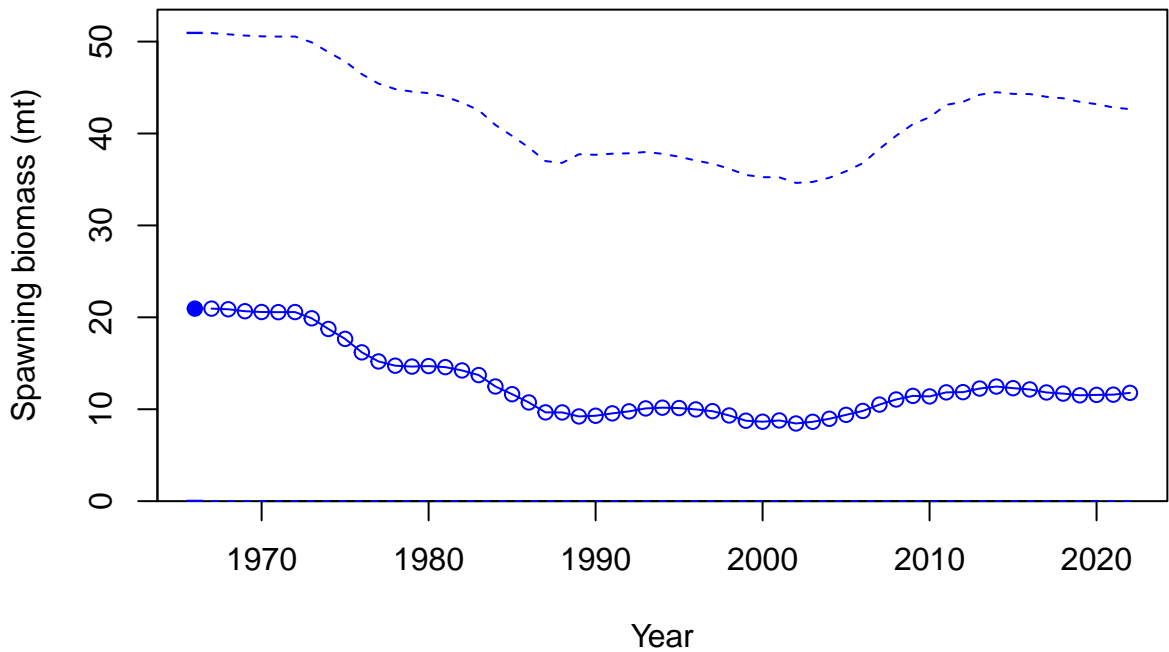




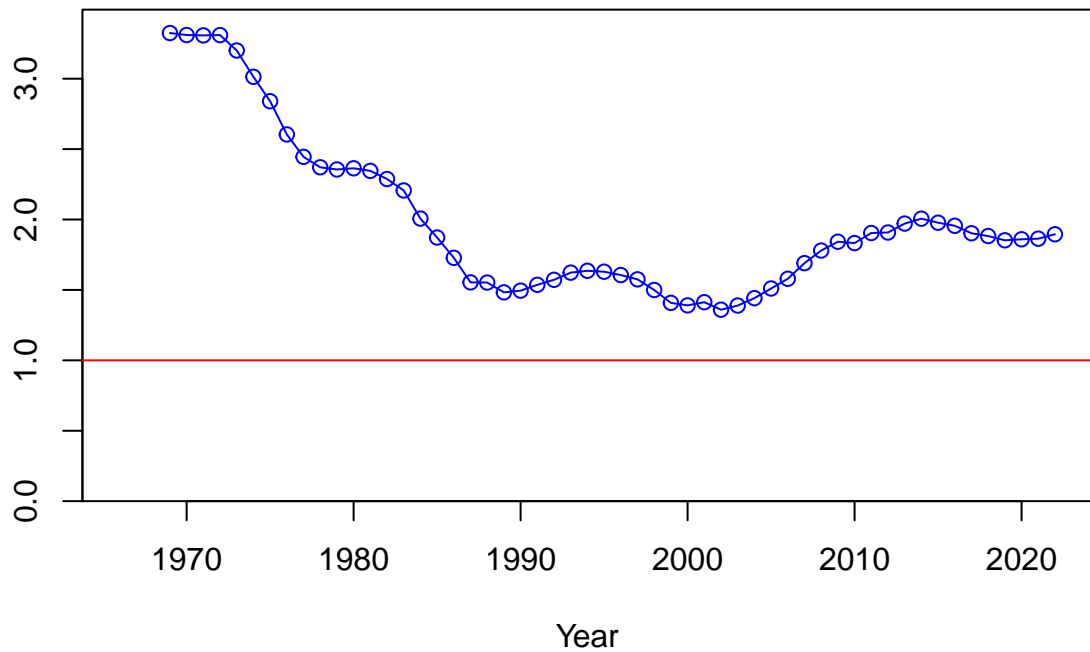


Spawning biomass (mt)

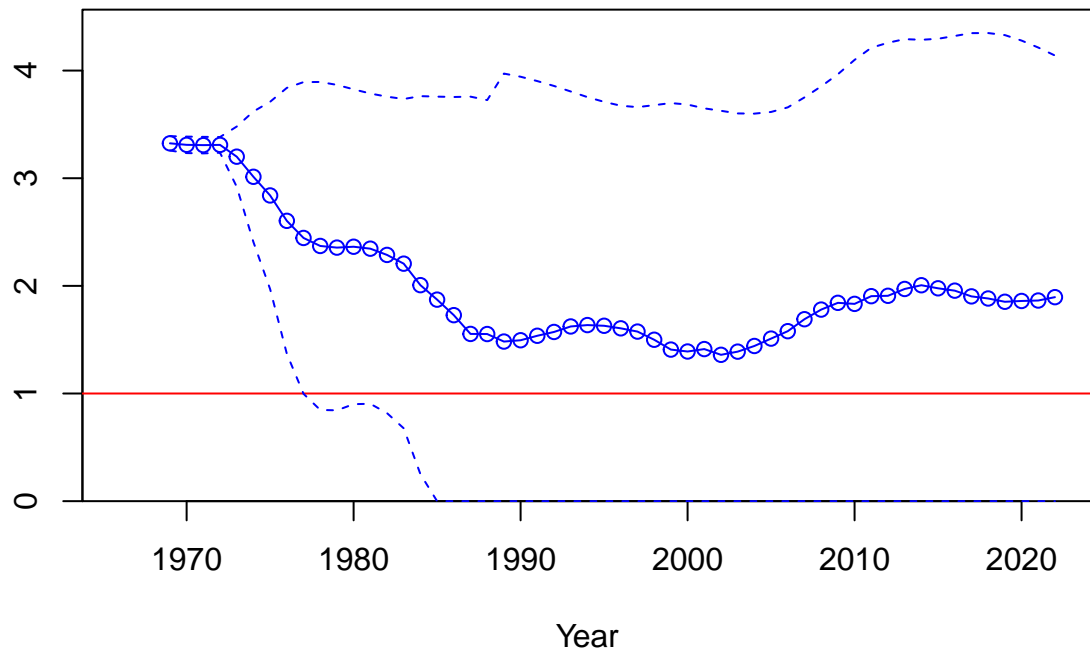


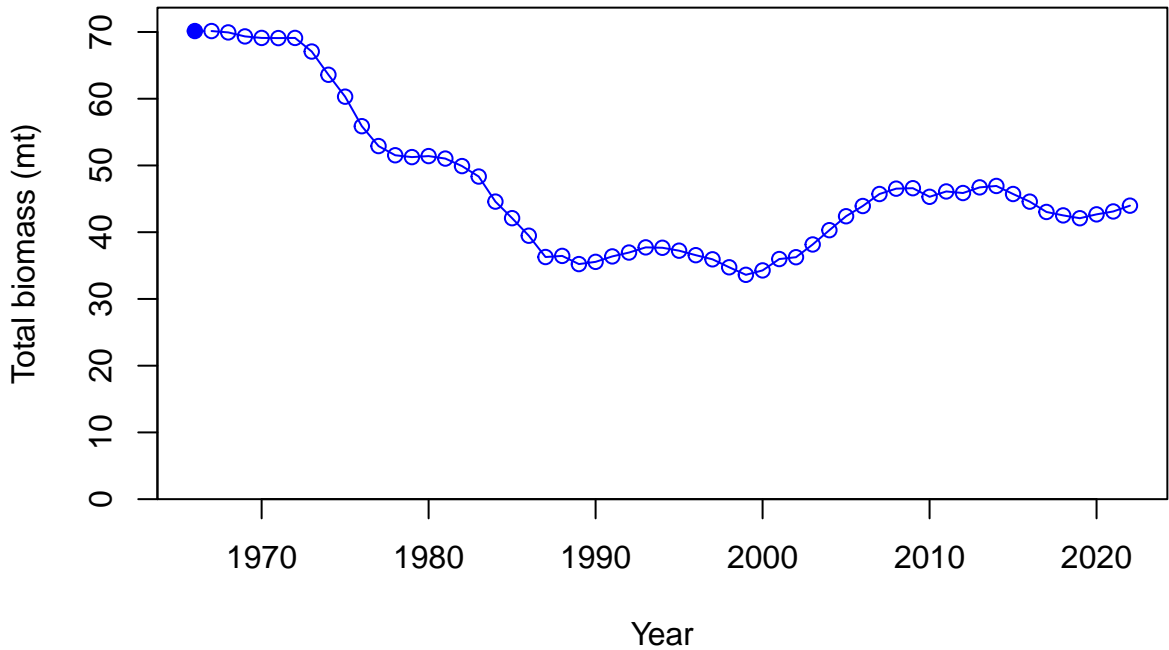


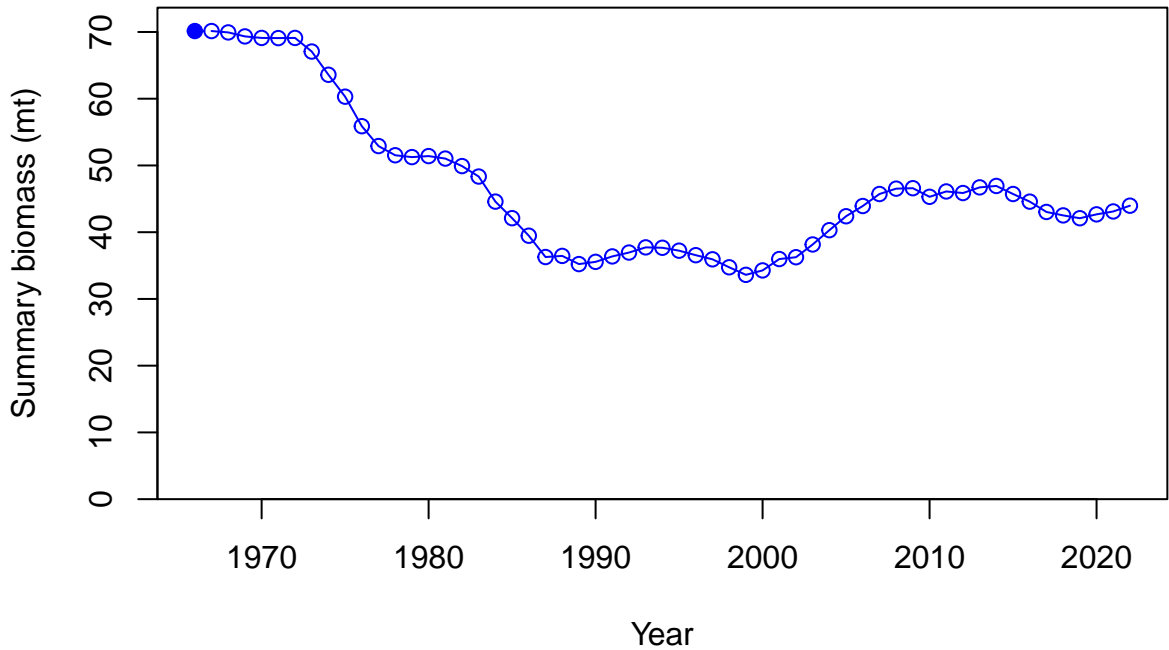
Relative spawning biomass: B/B_{MSY}



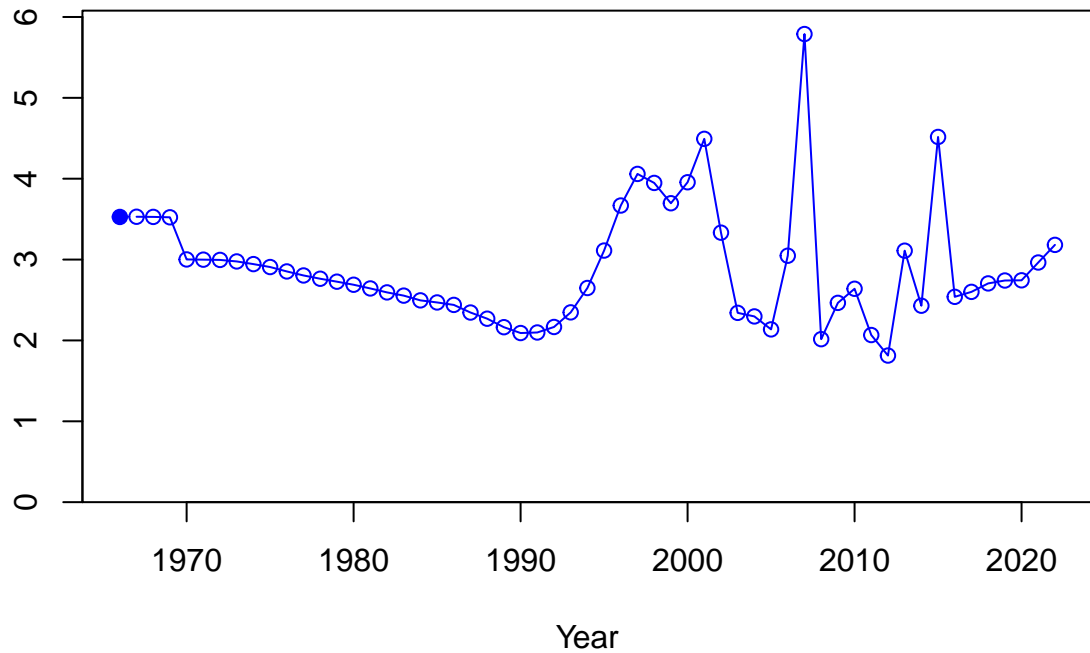
Relative spawning biomass: B/B_{MSY}

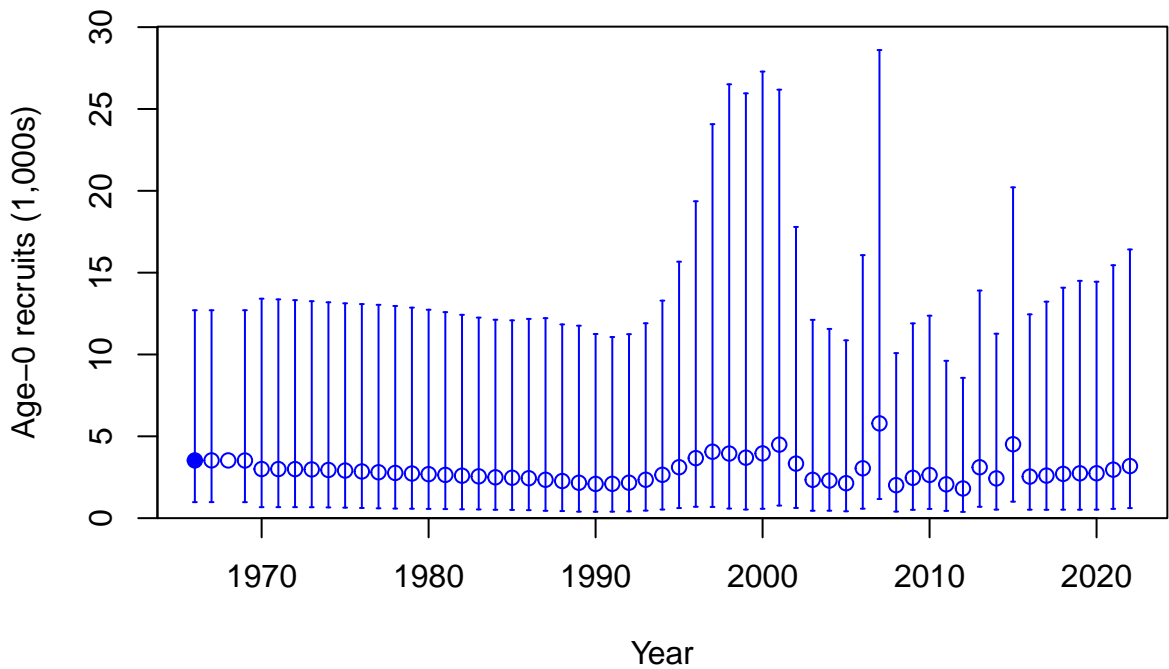




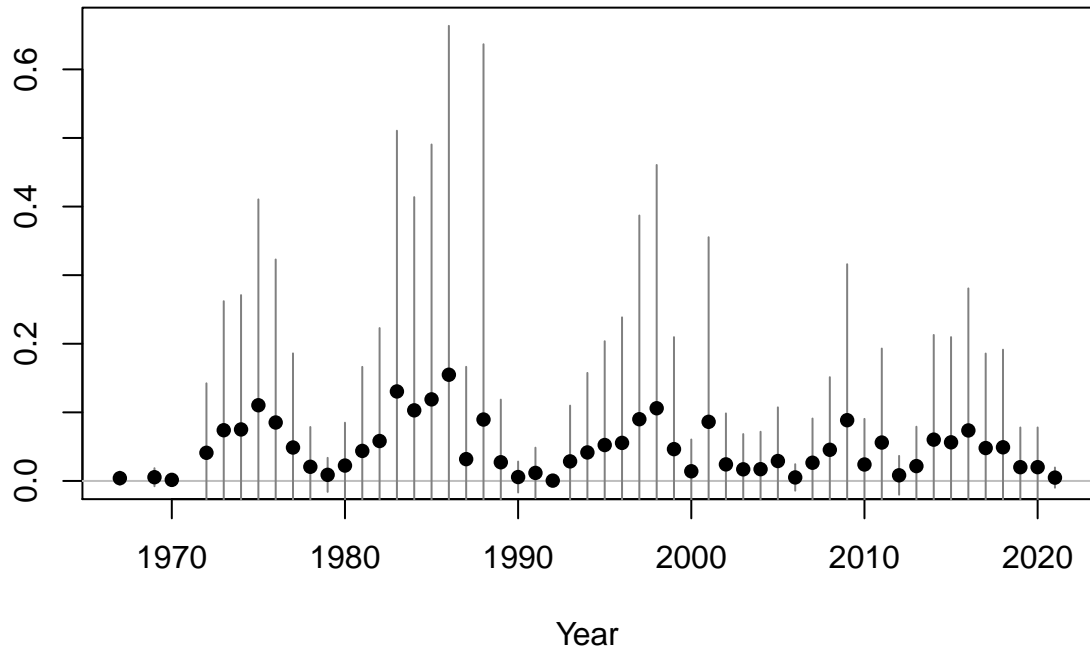


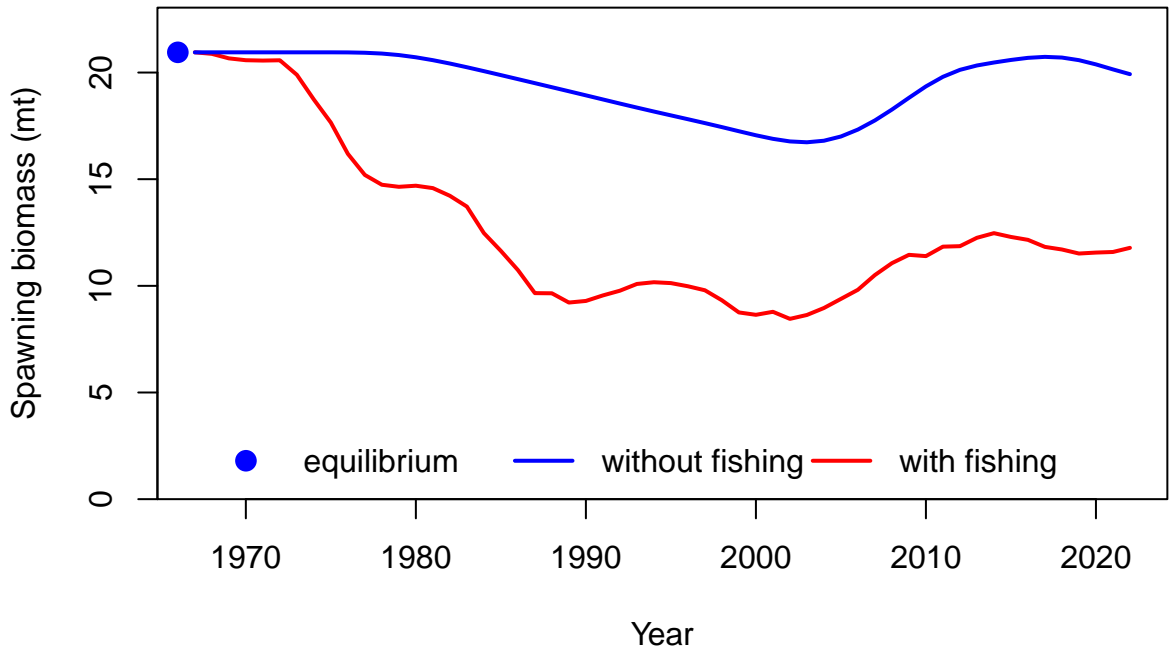
Age-0 recruits (1,000s)



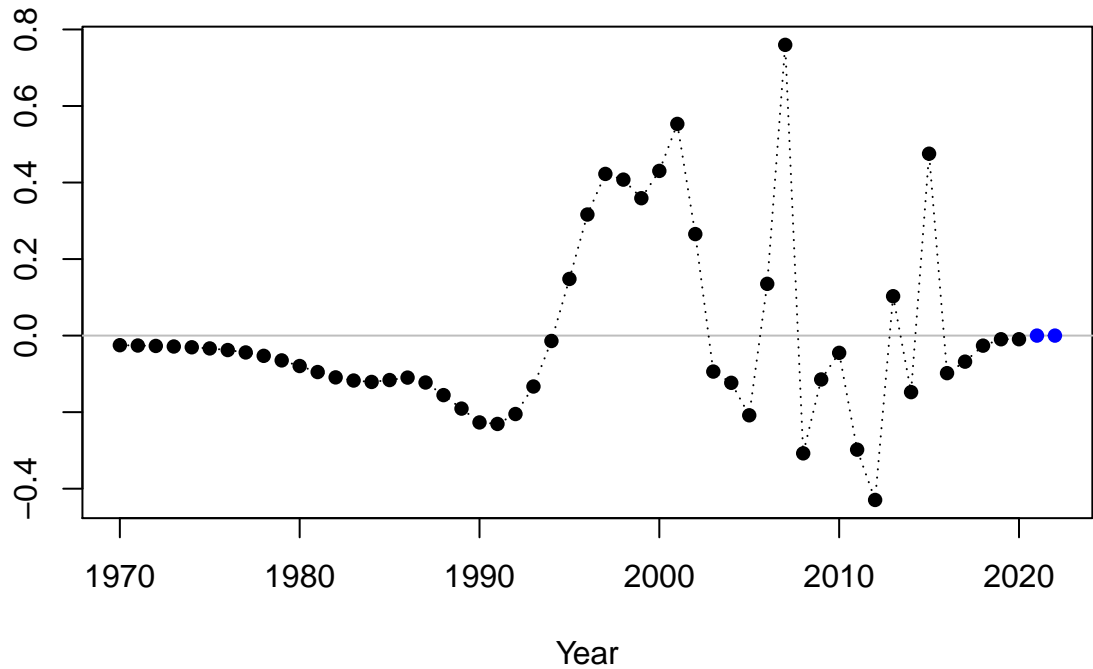


Summary Fishing Mortality

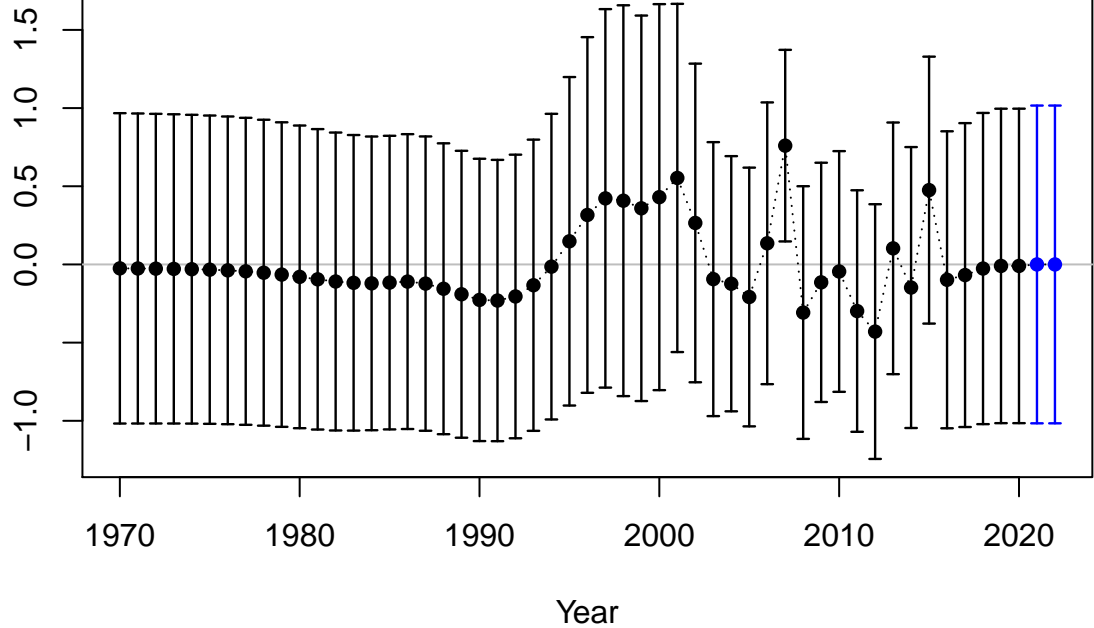




Log recruitment deviation

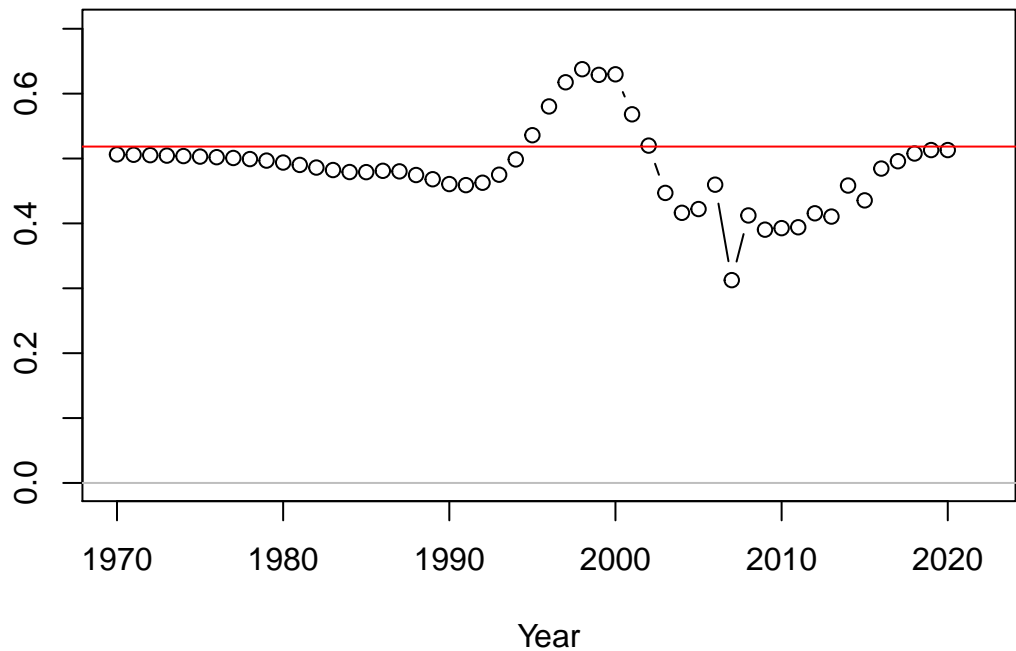


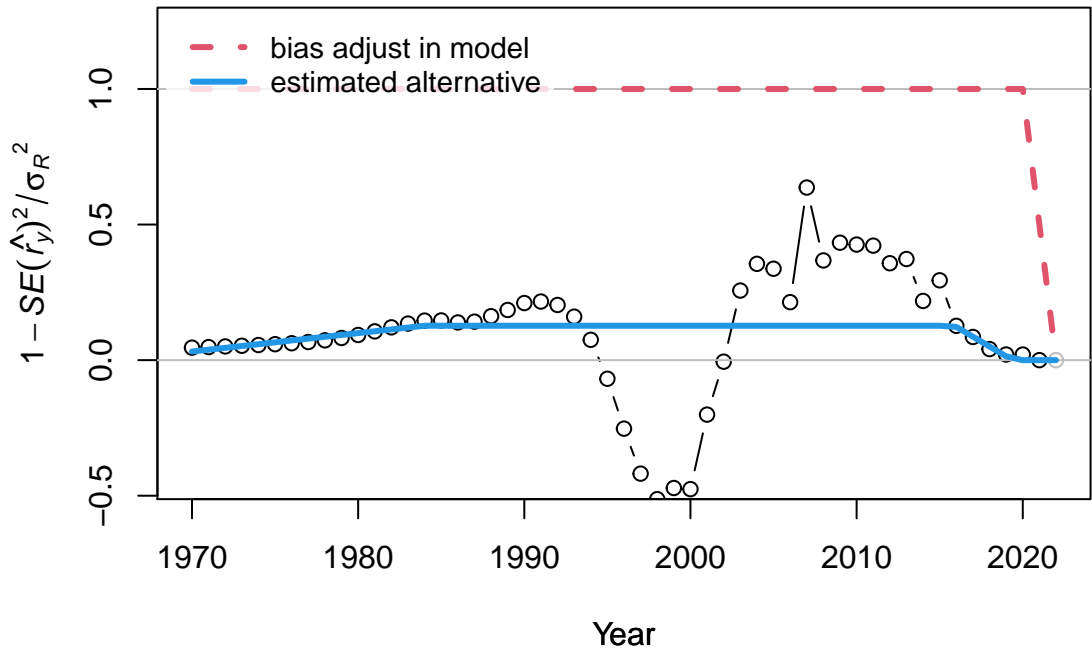
Log recruitment deviation

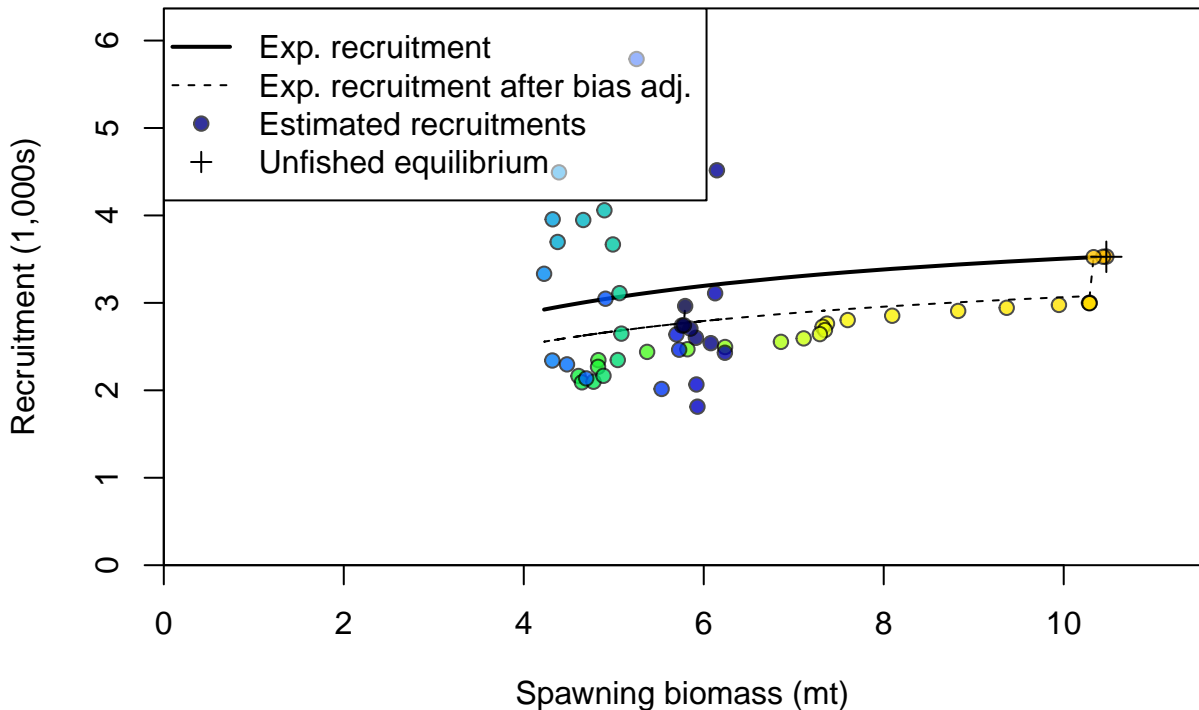


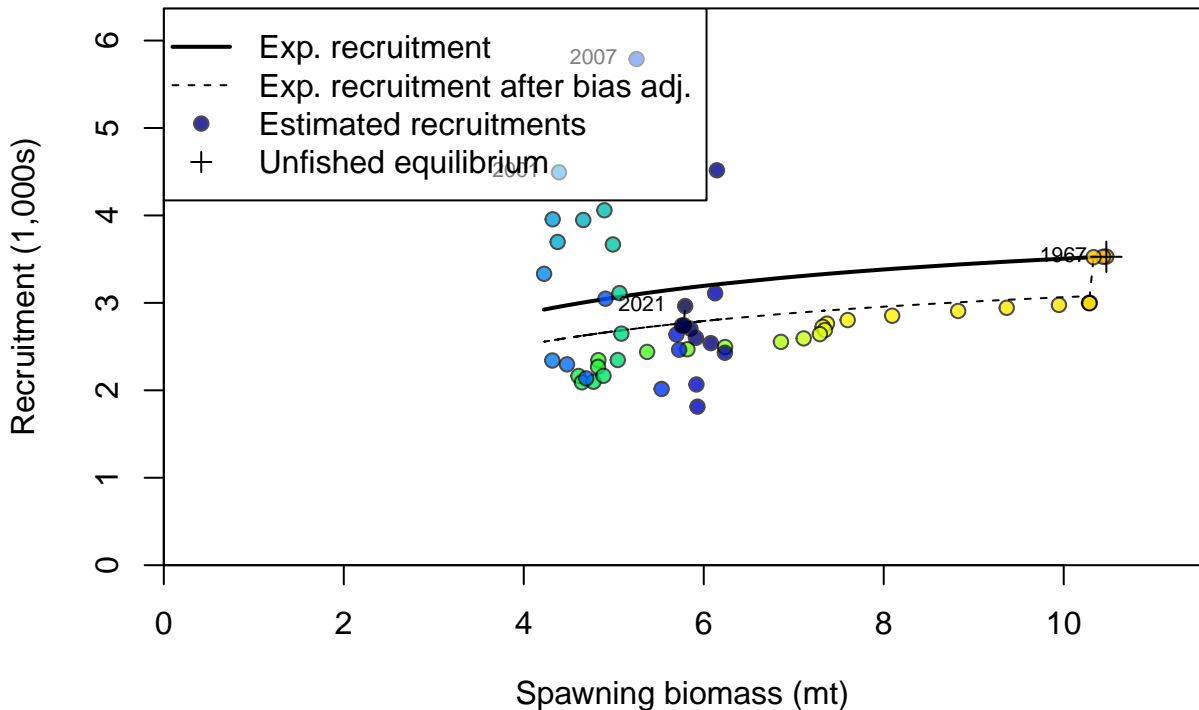
Recruitment deviation variance

Asymptotic standard error estimate









Log recruitment deviation

2007

2001

2021

-0.5

0.0

0.5

0.0

0.2

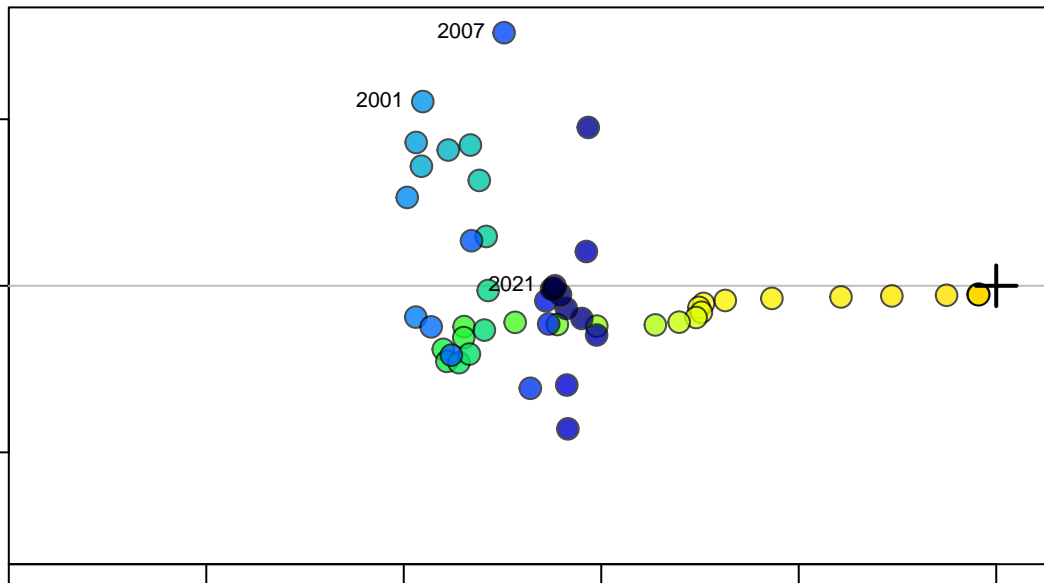
0.4

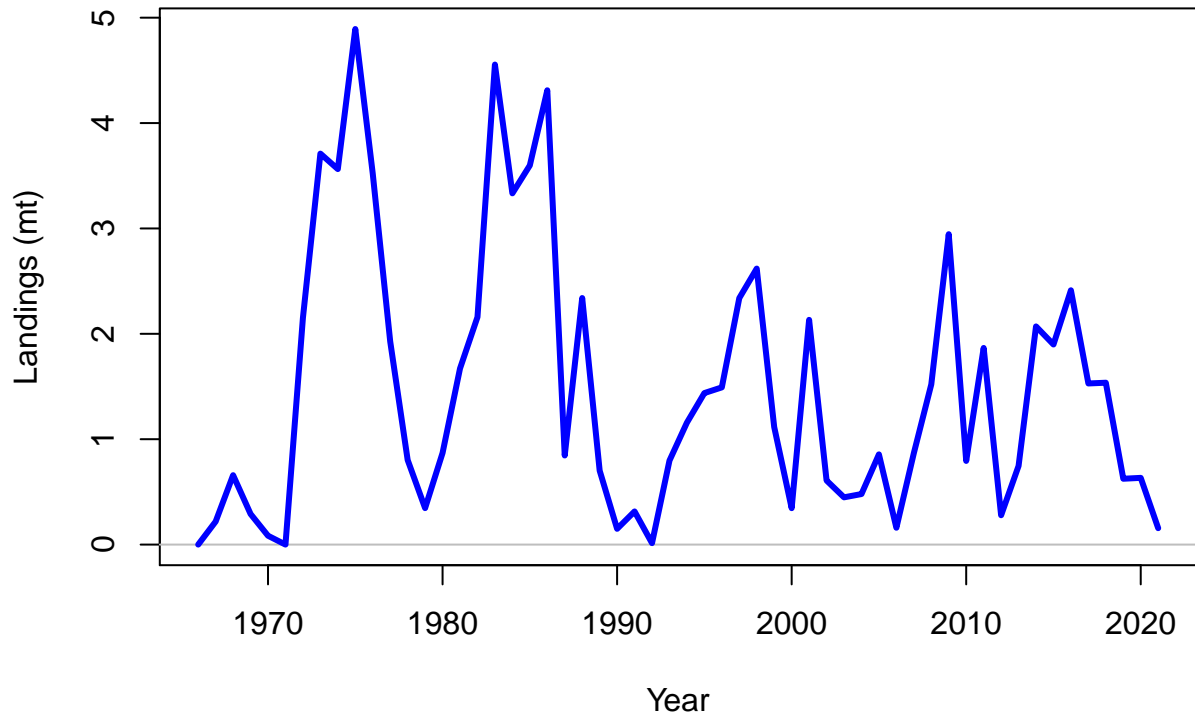
0.6

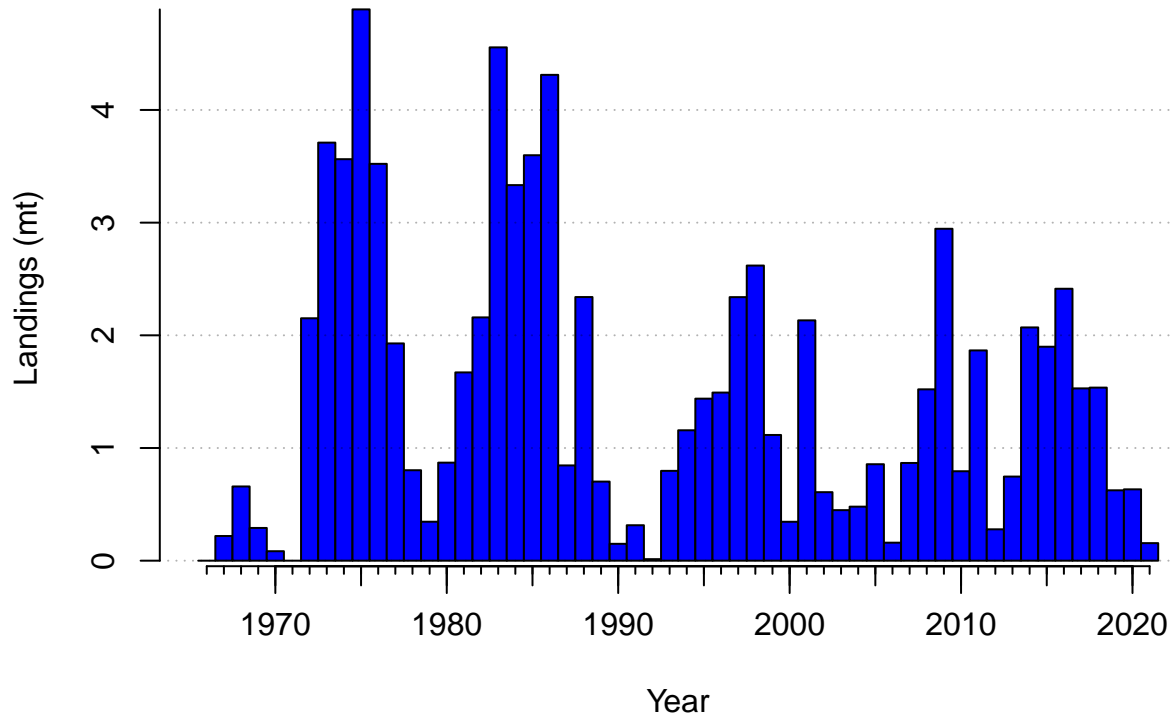
0.8

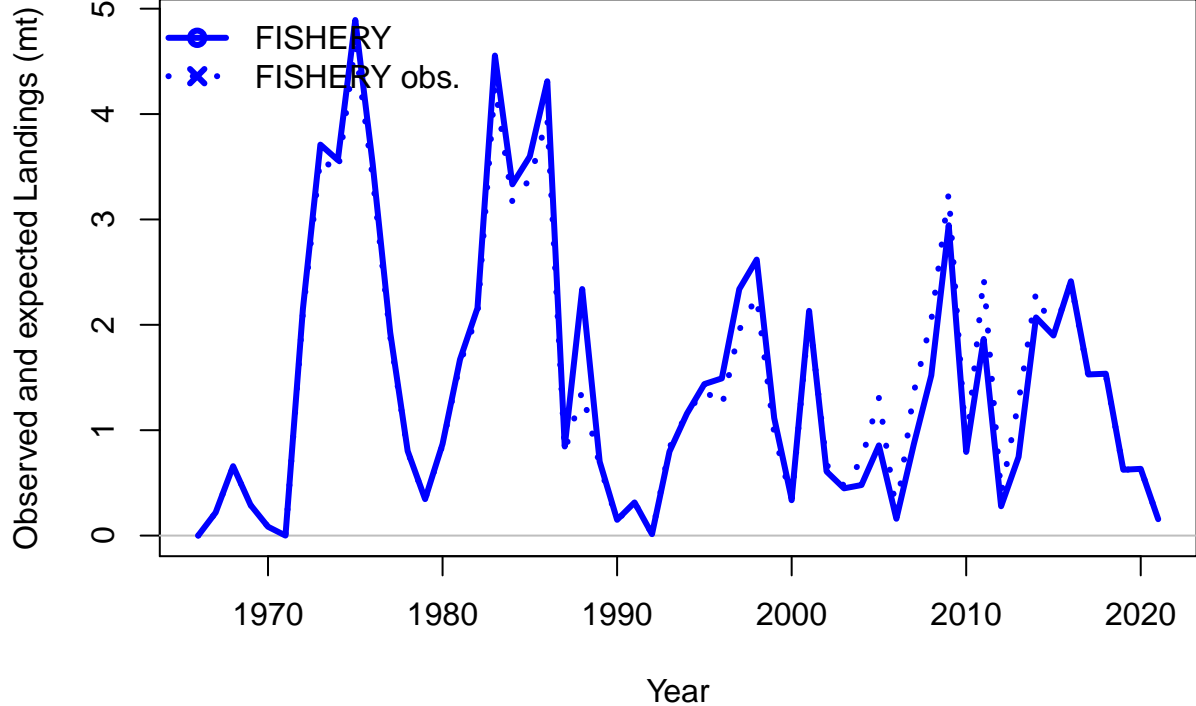
1.0

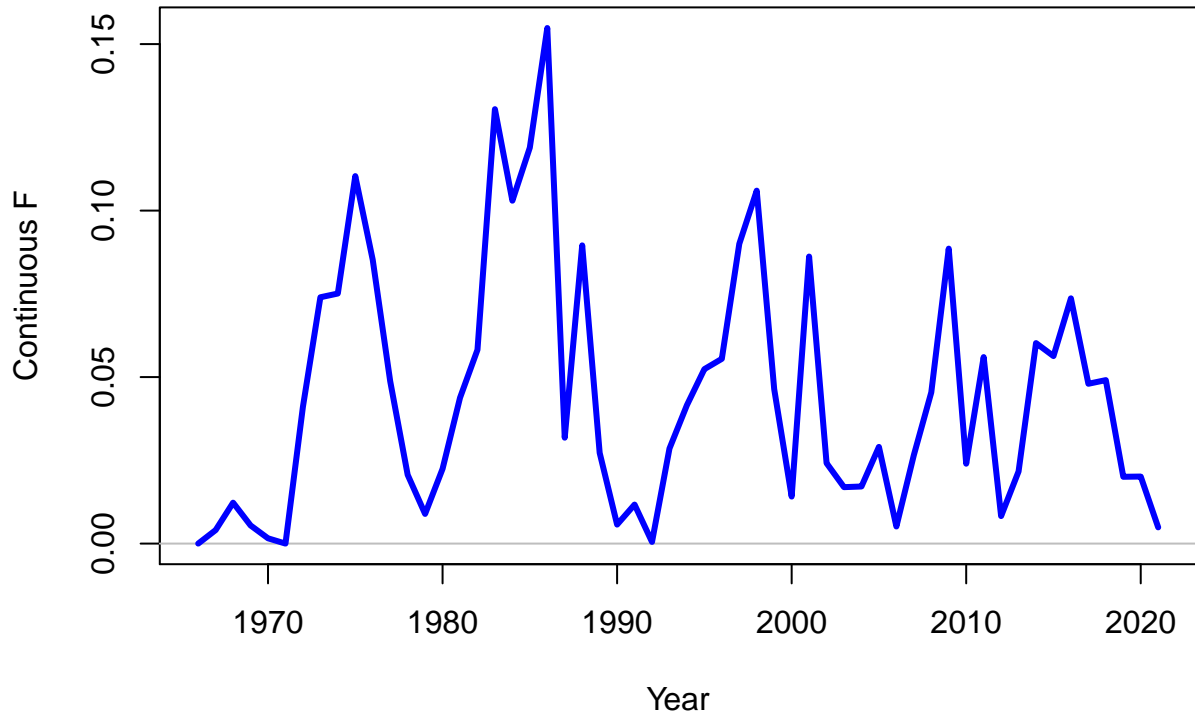
Spawning output (relative to B_0)



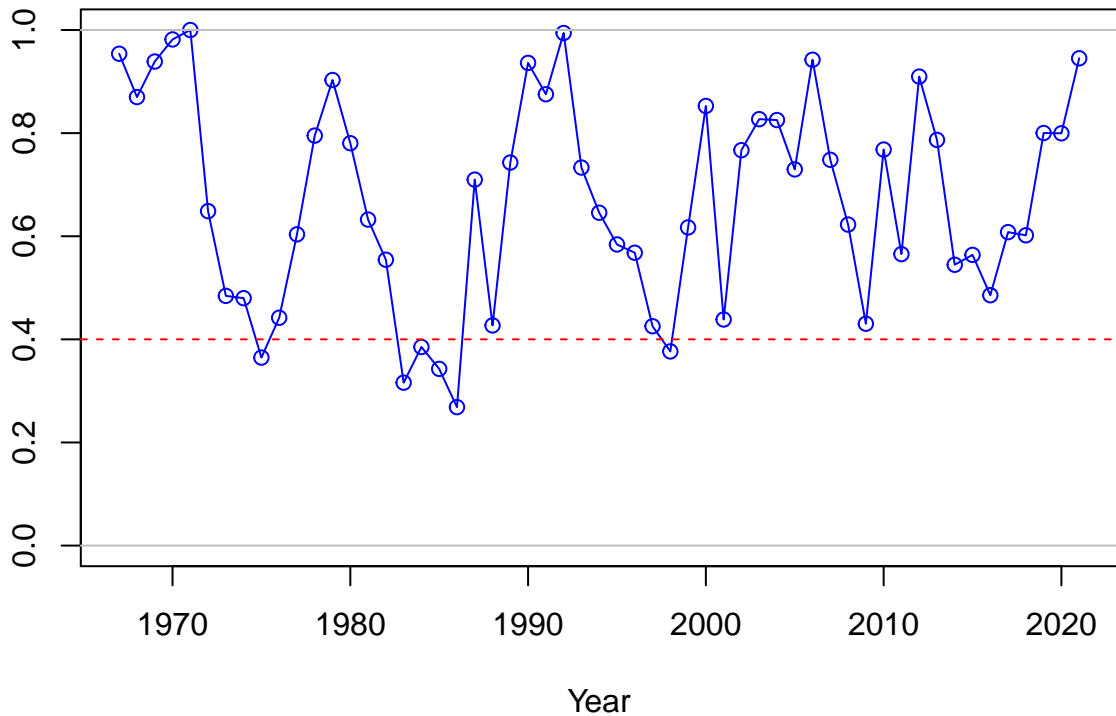


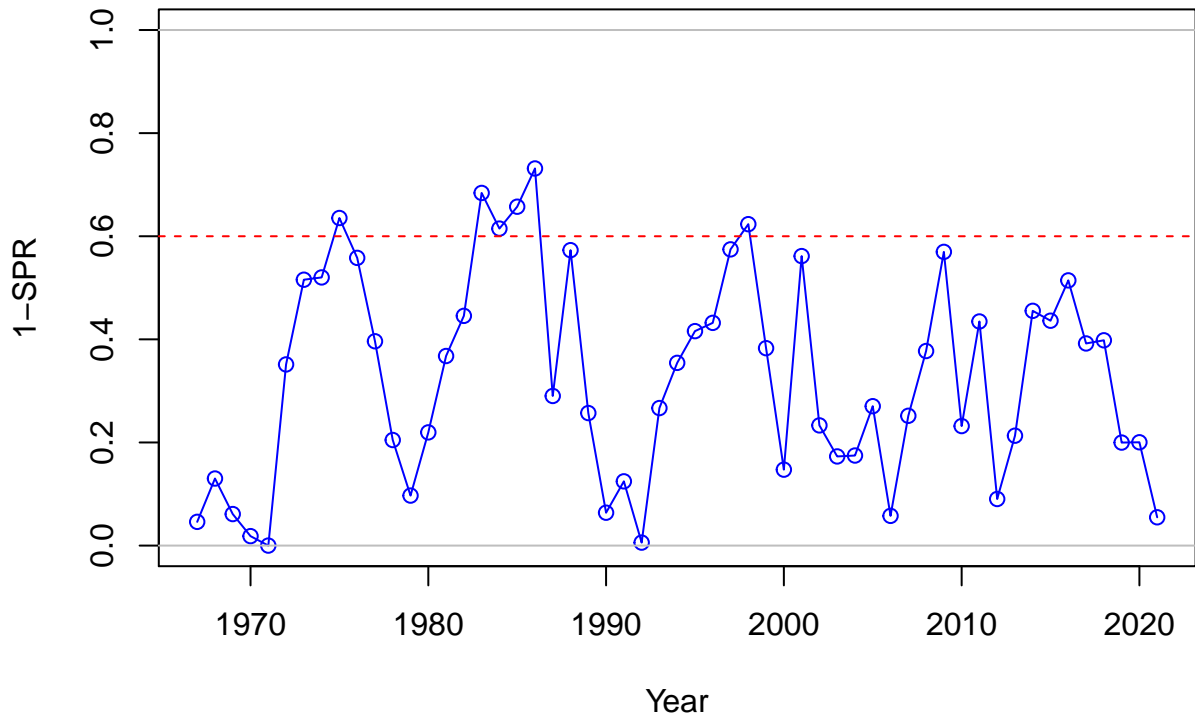




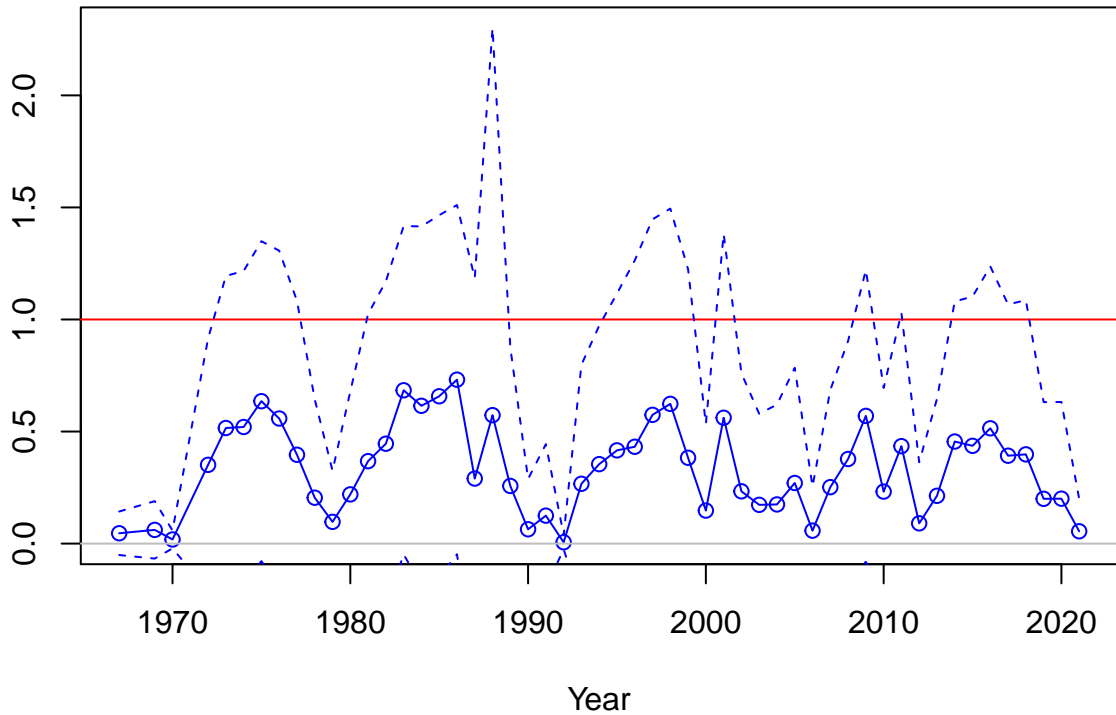


SPR

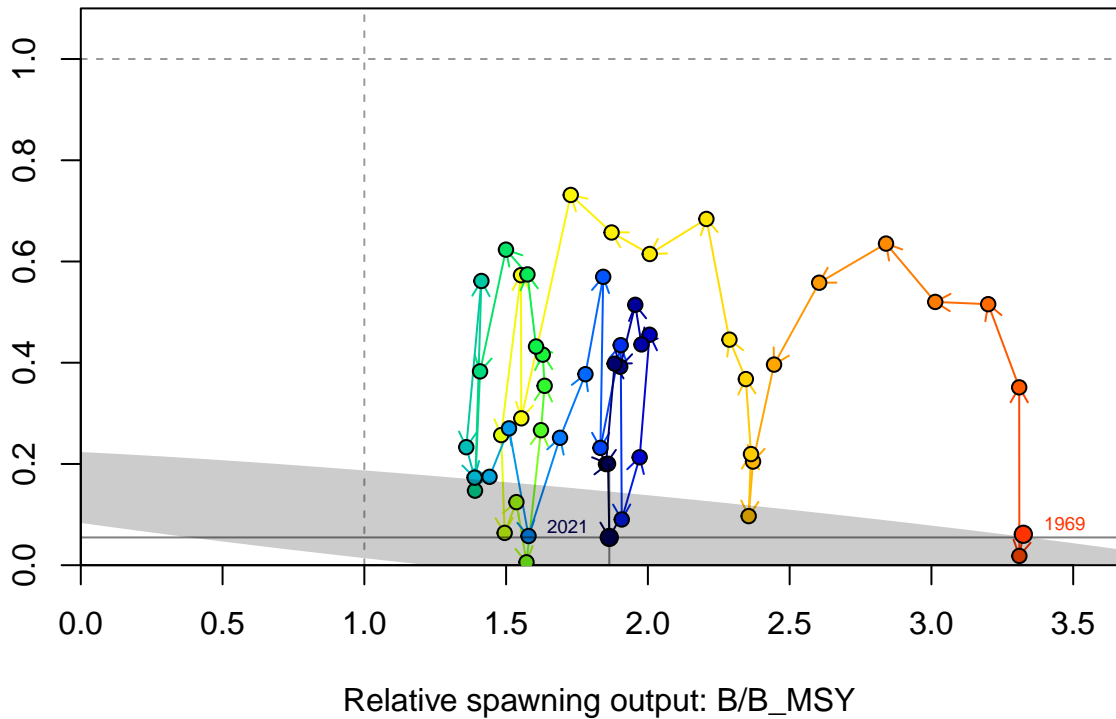




Fishing intensity: 1-SPR



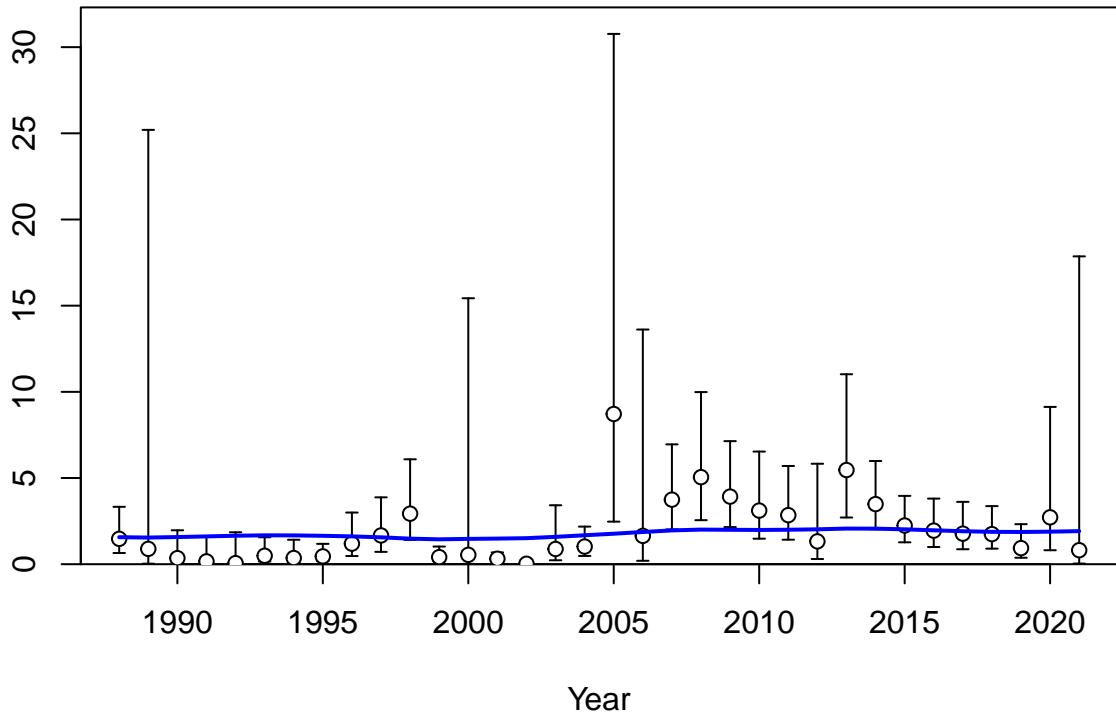
Fishing intensity: 1-SPR

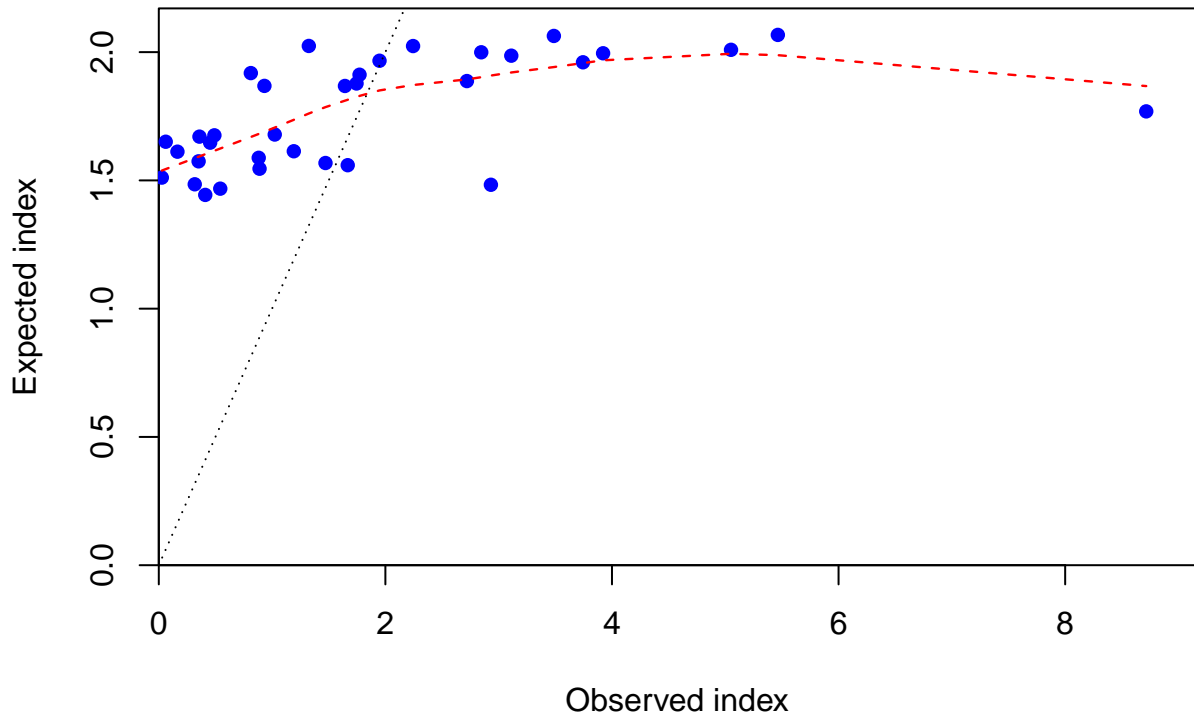


Index

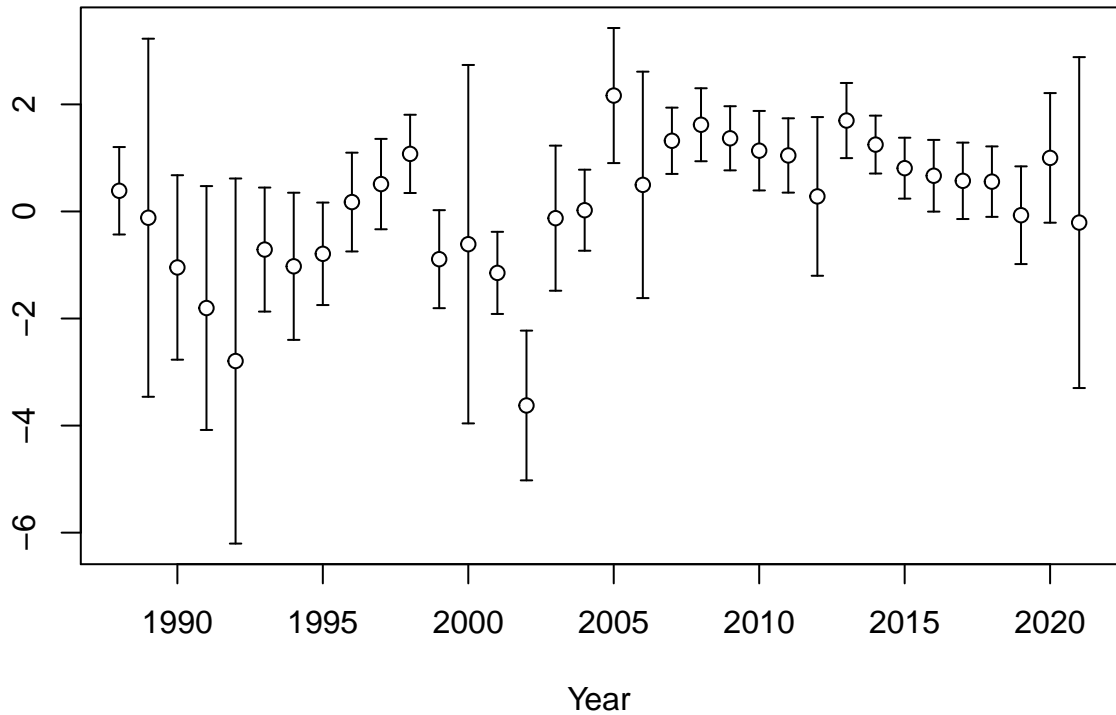


Index

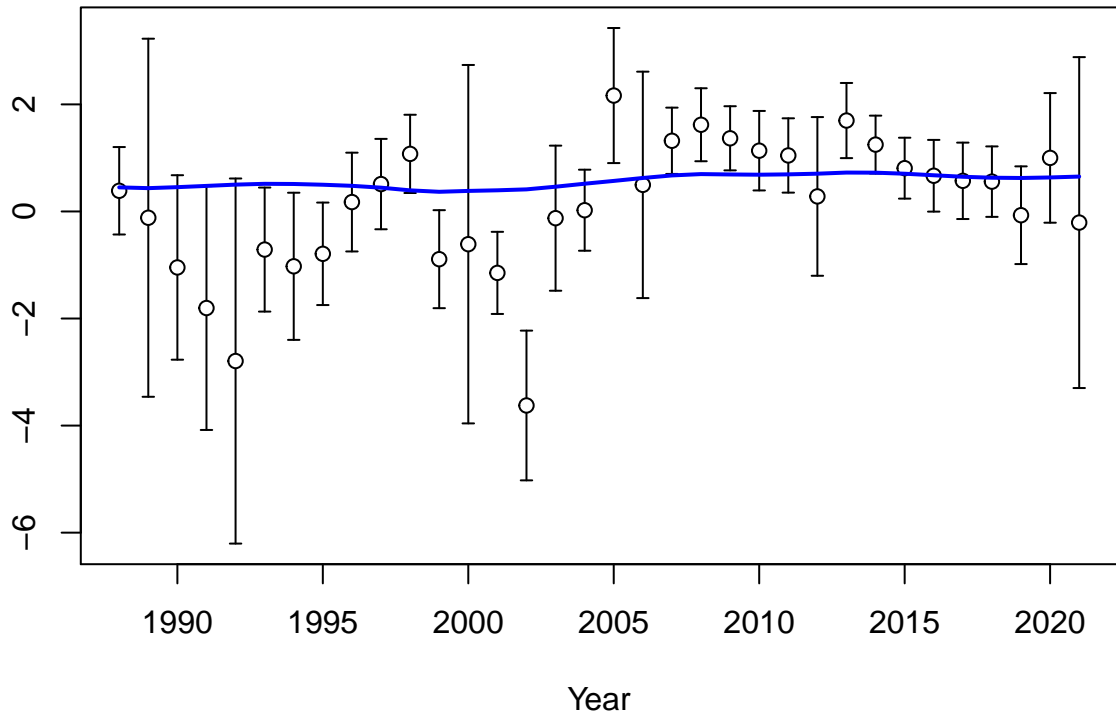


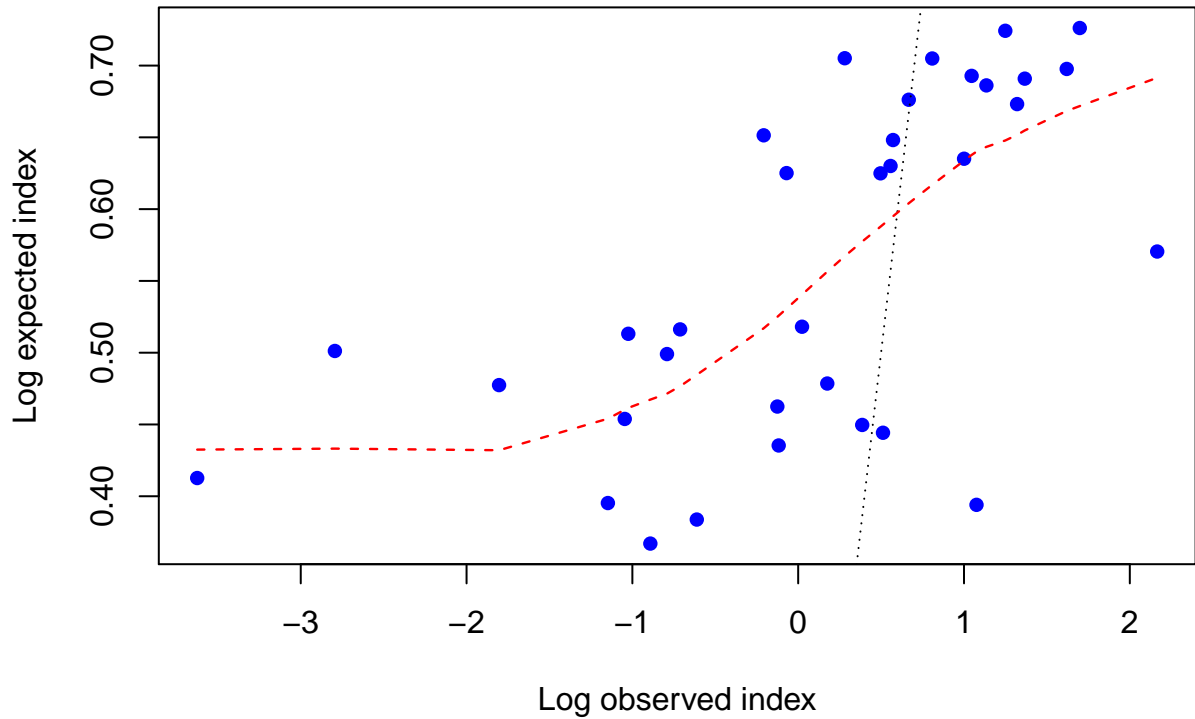


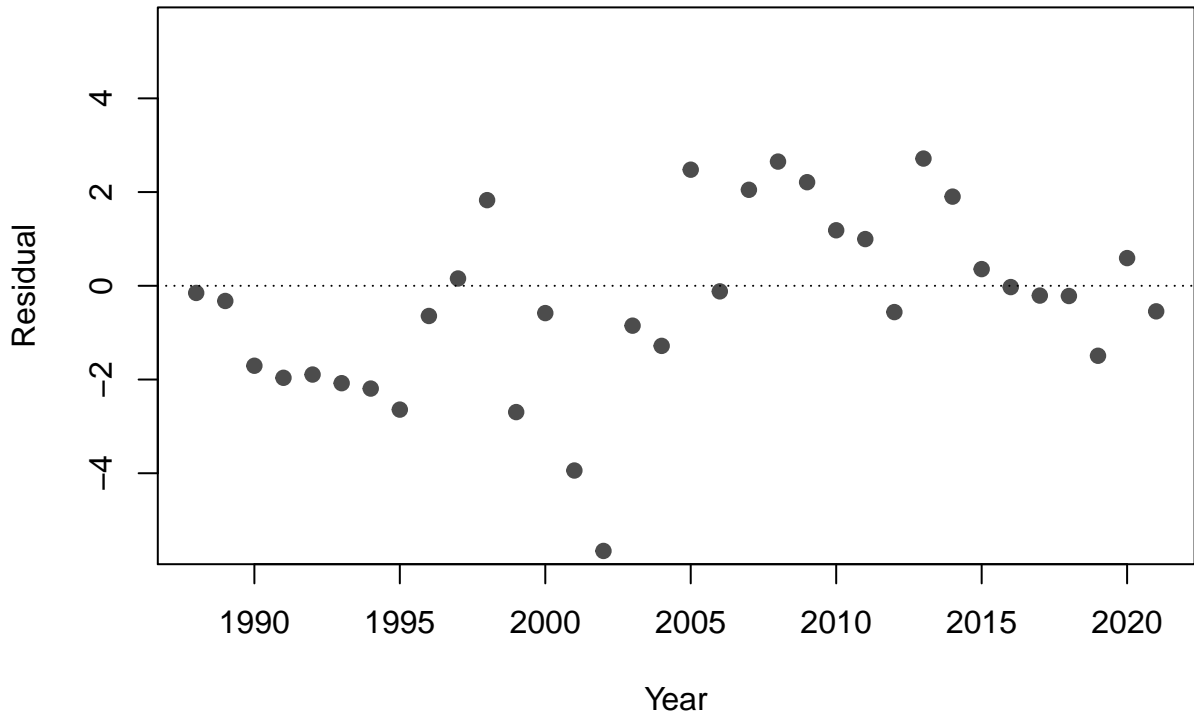
Log index

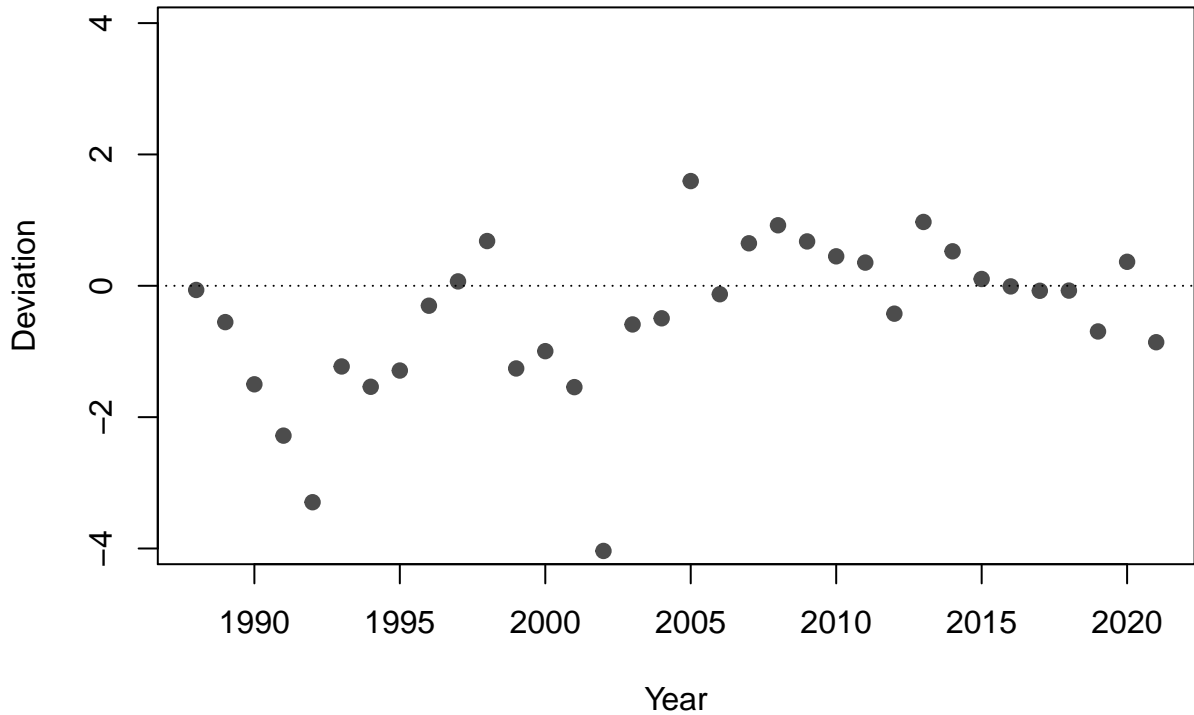


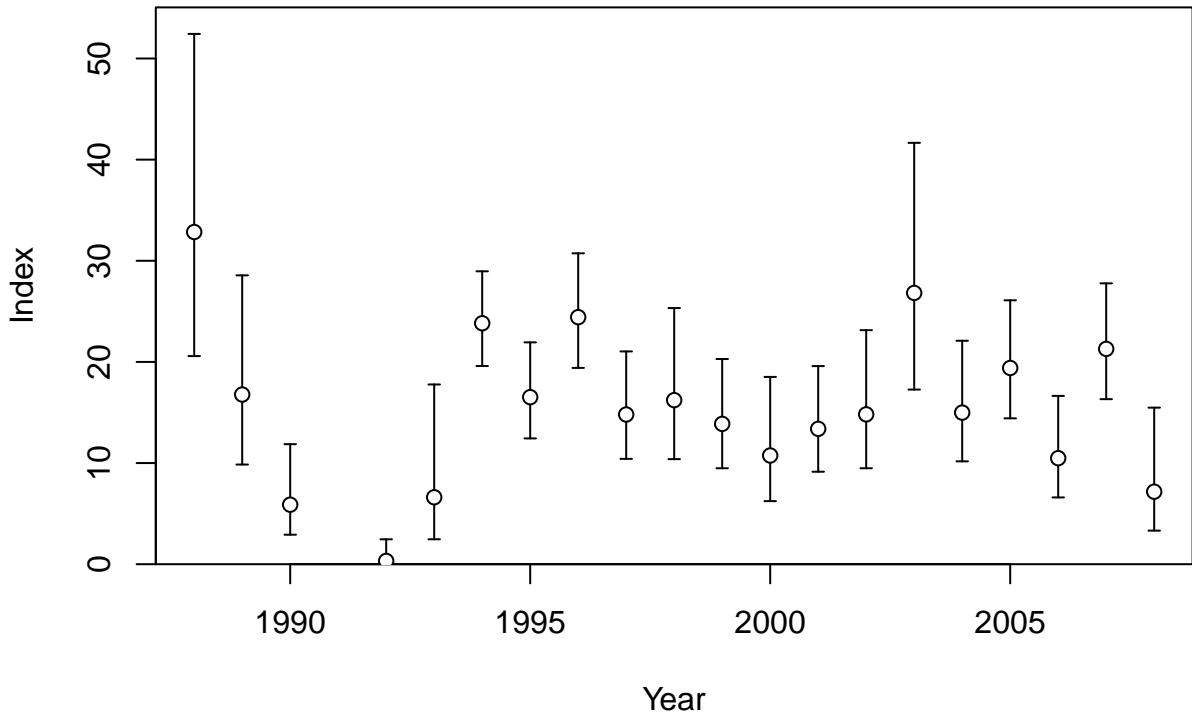
Log index

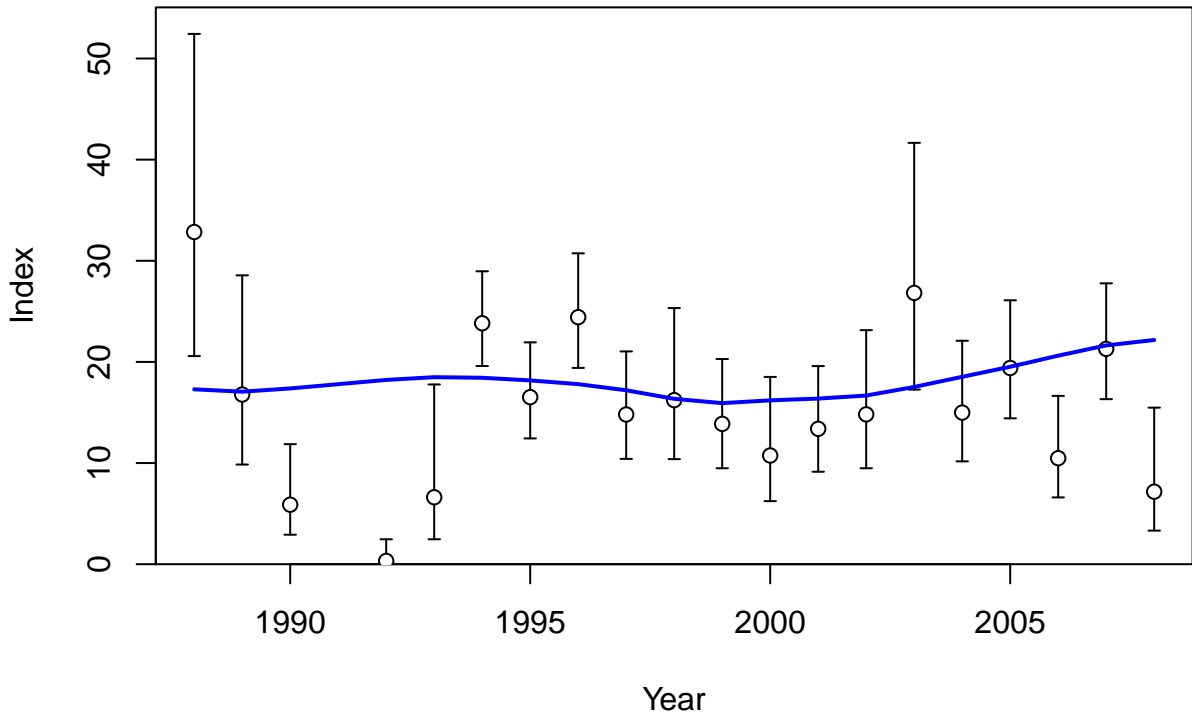


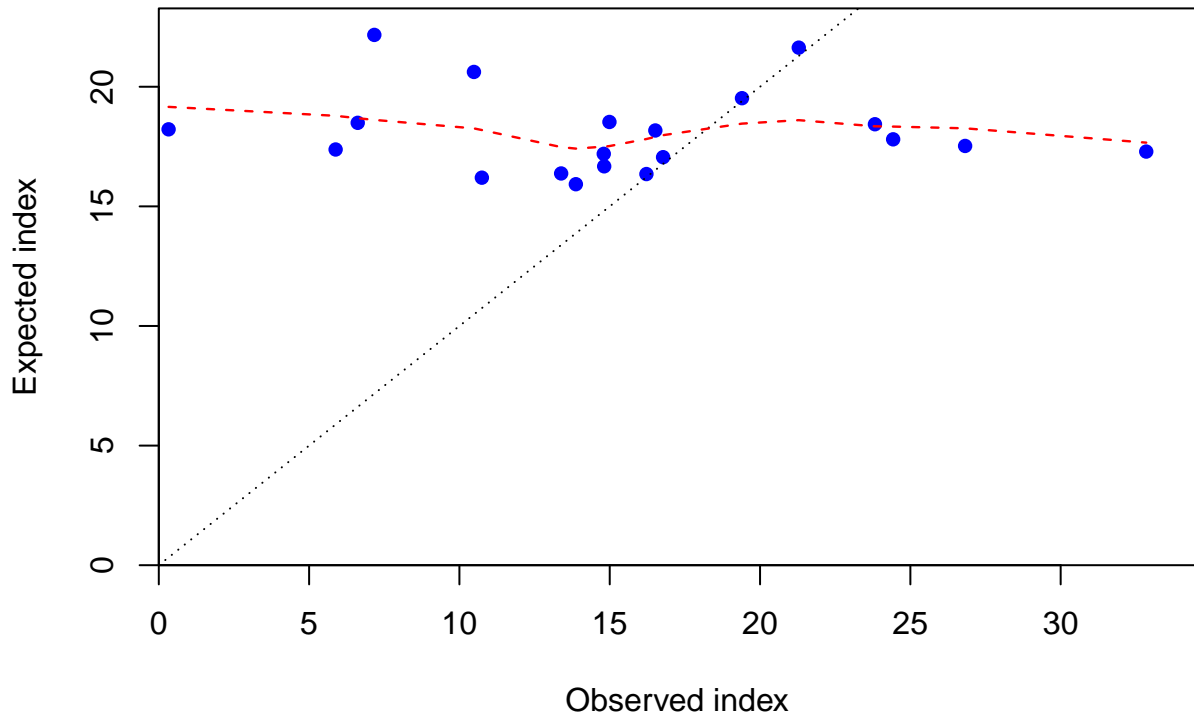




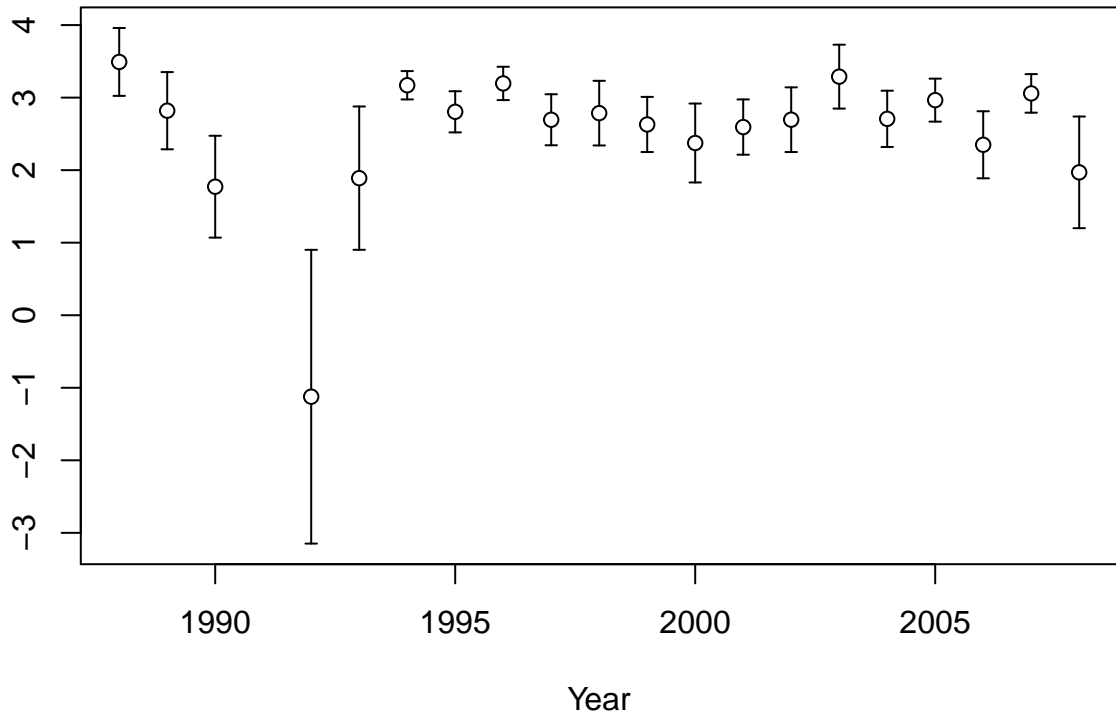




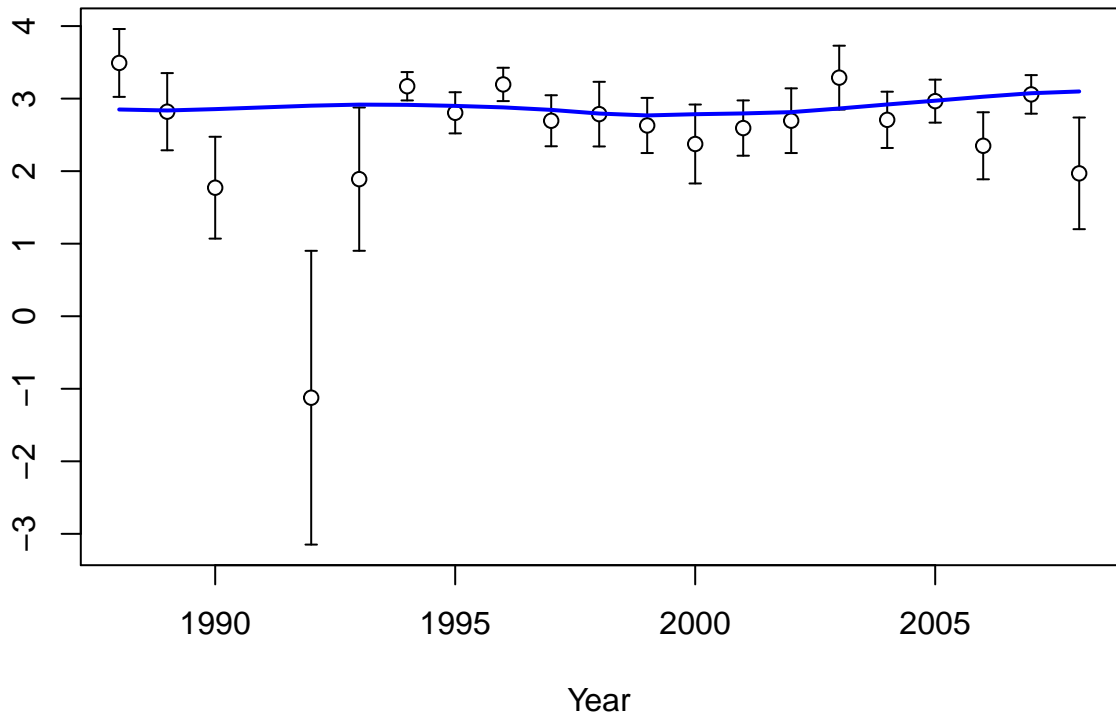




Log index



Log index



Log expected index

3.10
3.00
2.90
2.80

-1

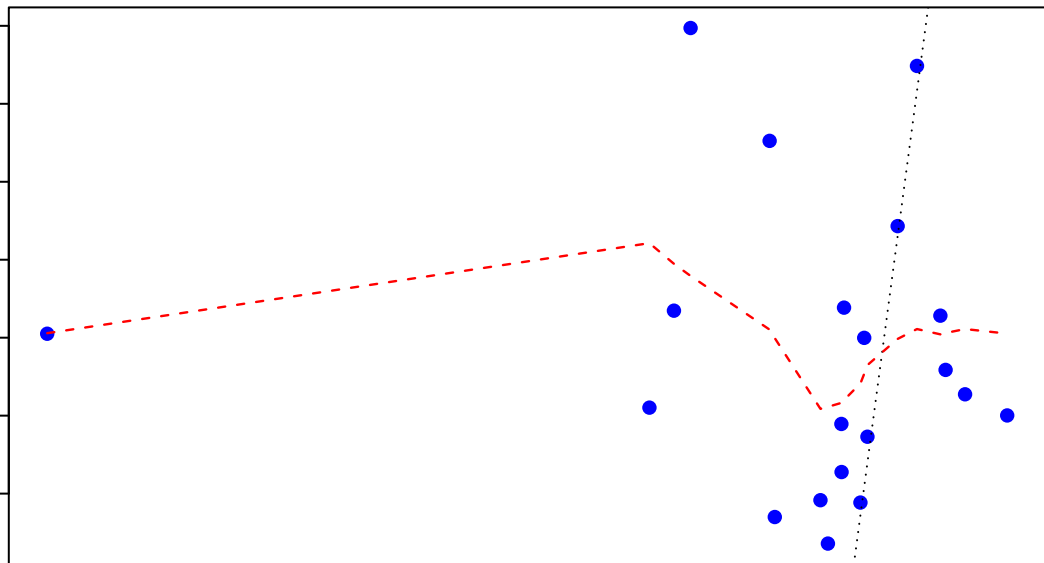
0

1

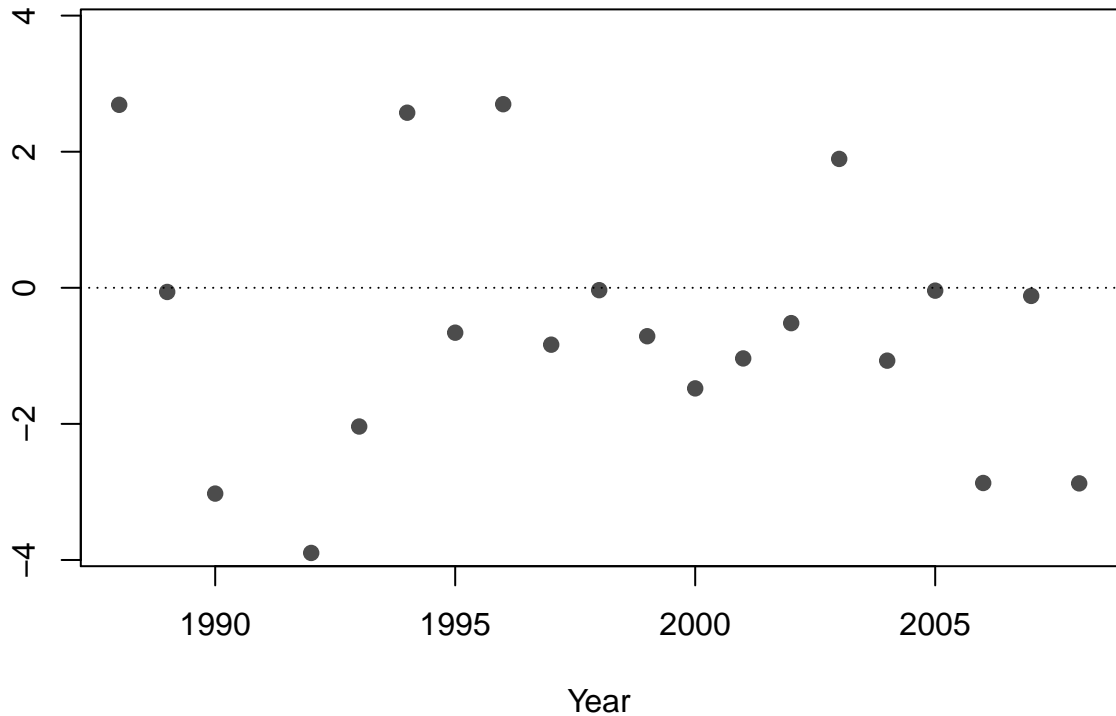
2

3

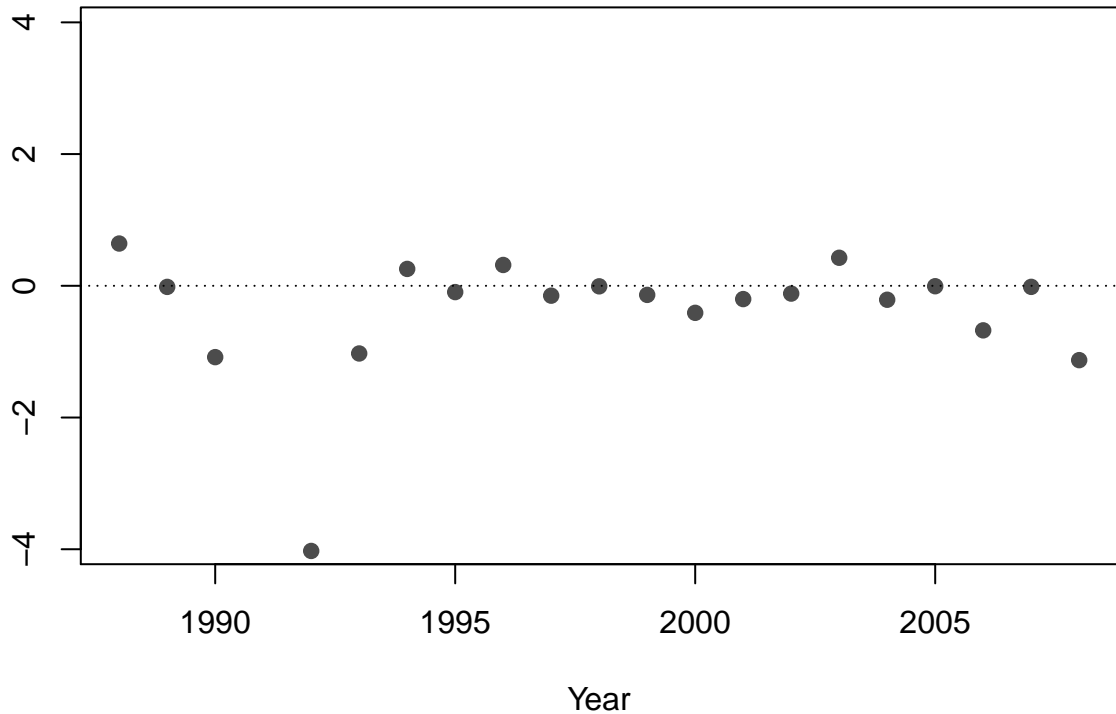
Log observed index

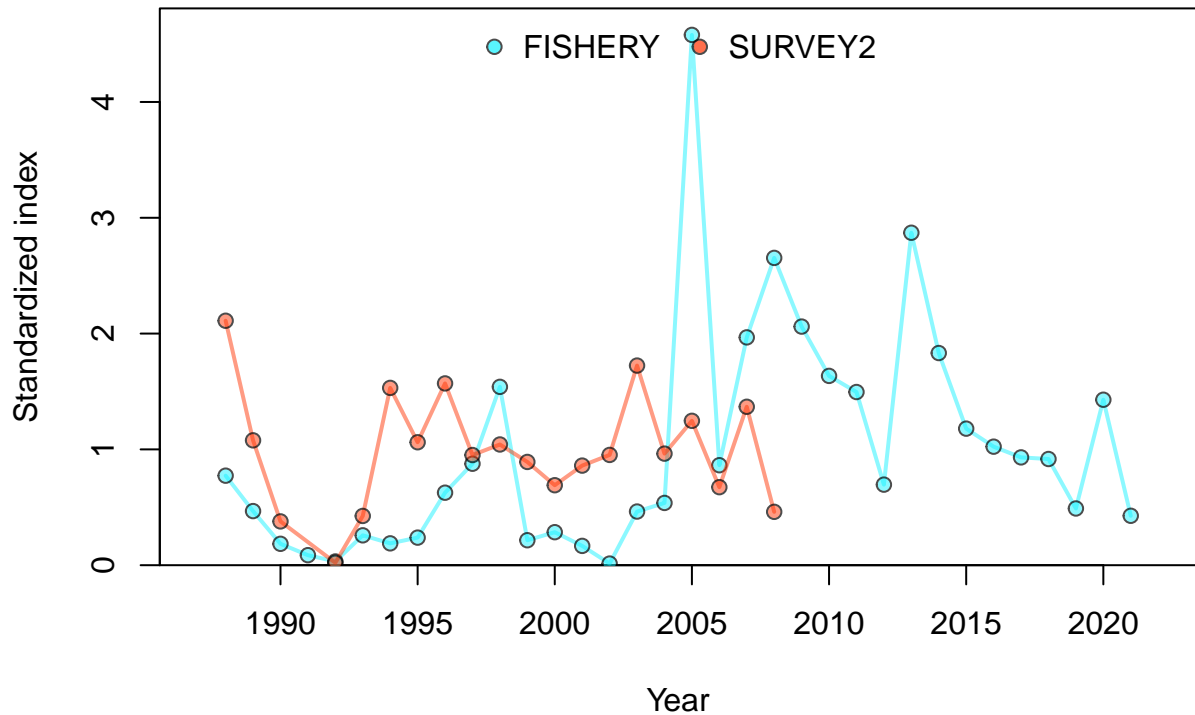


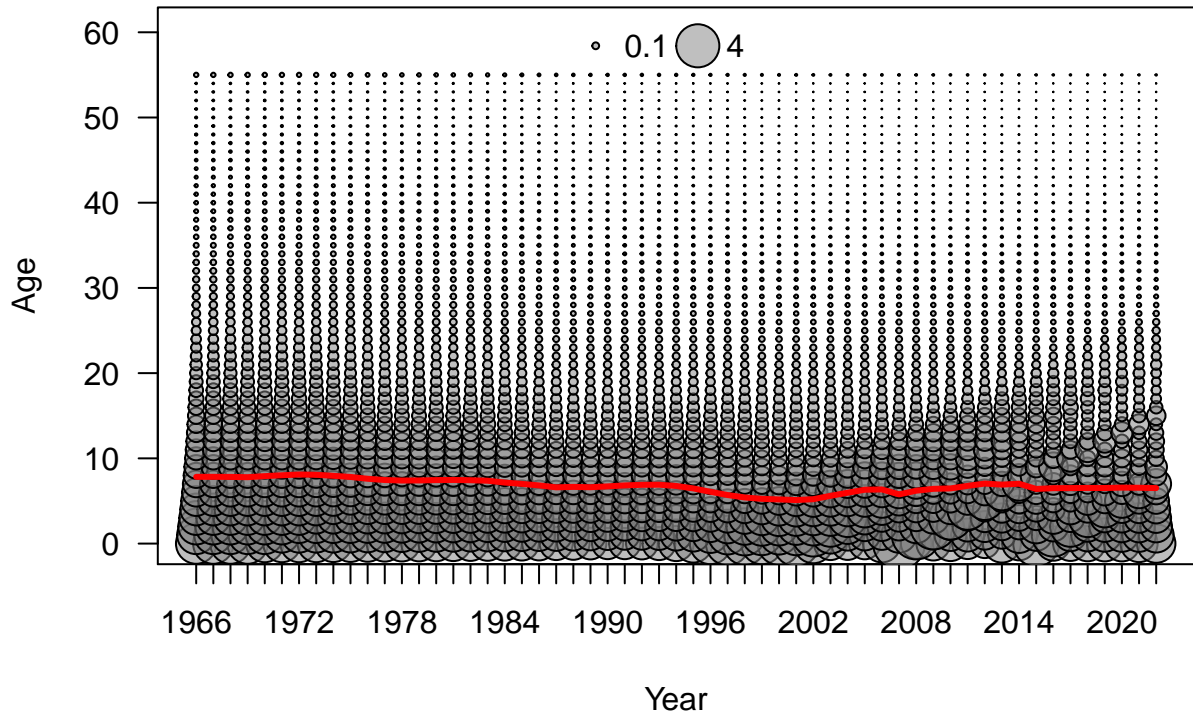
Residual

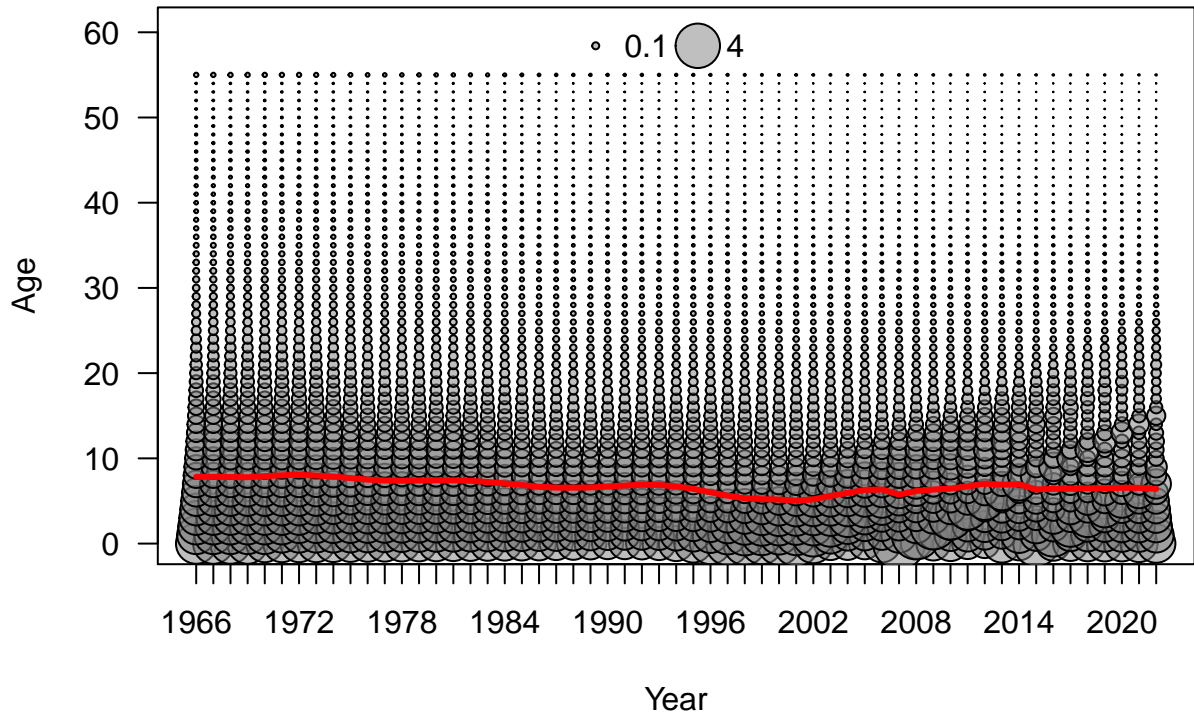


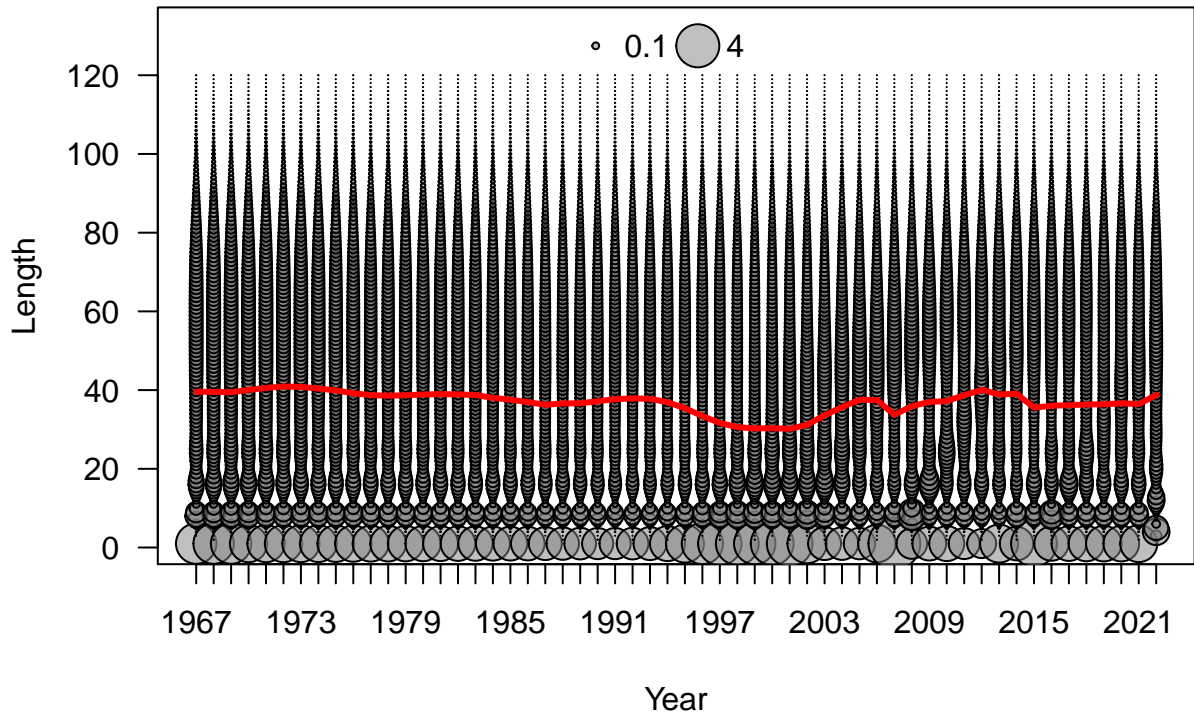
Deviation

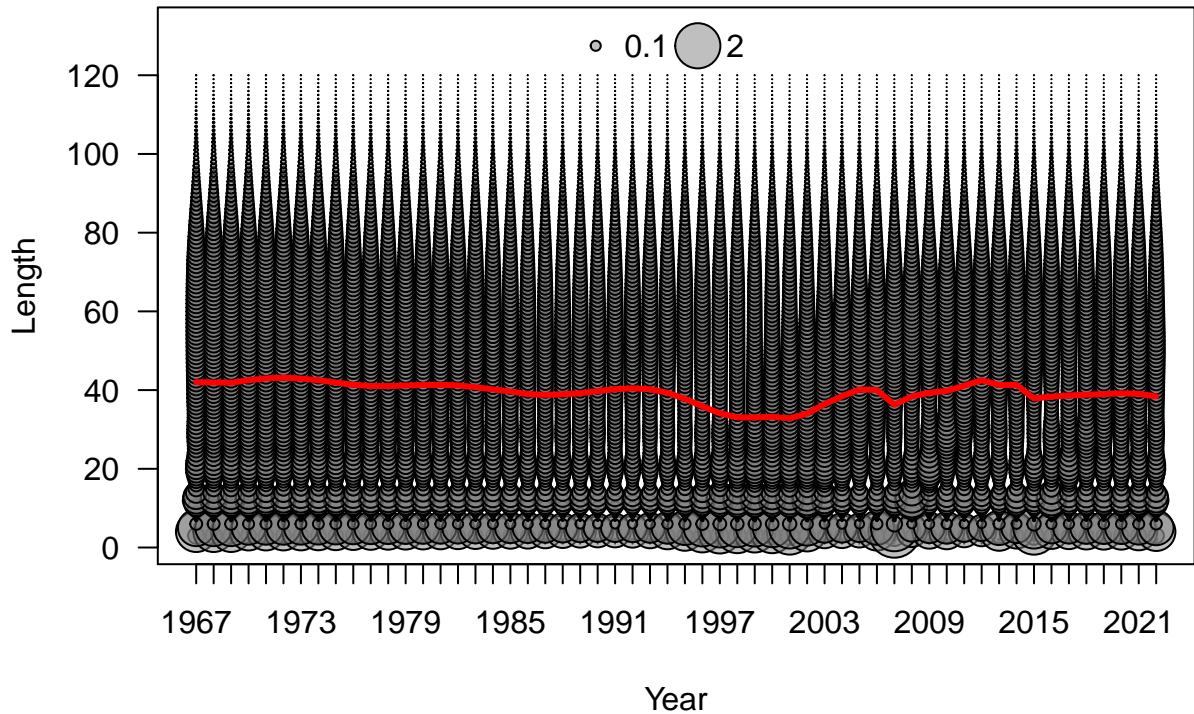


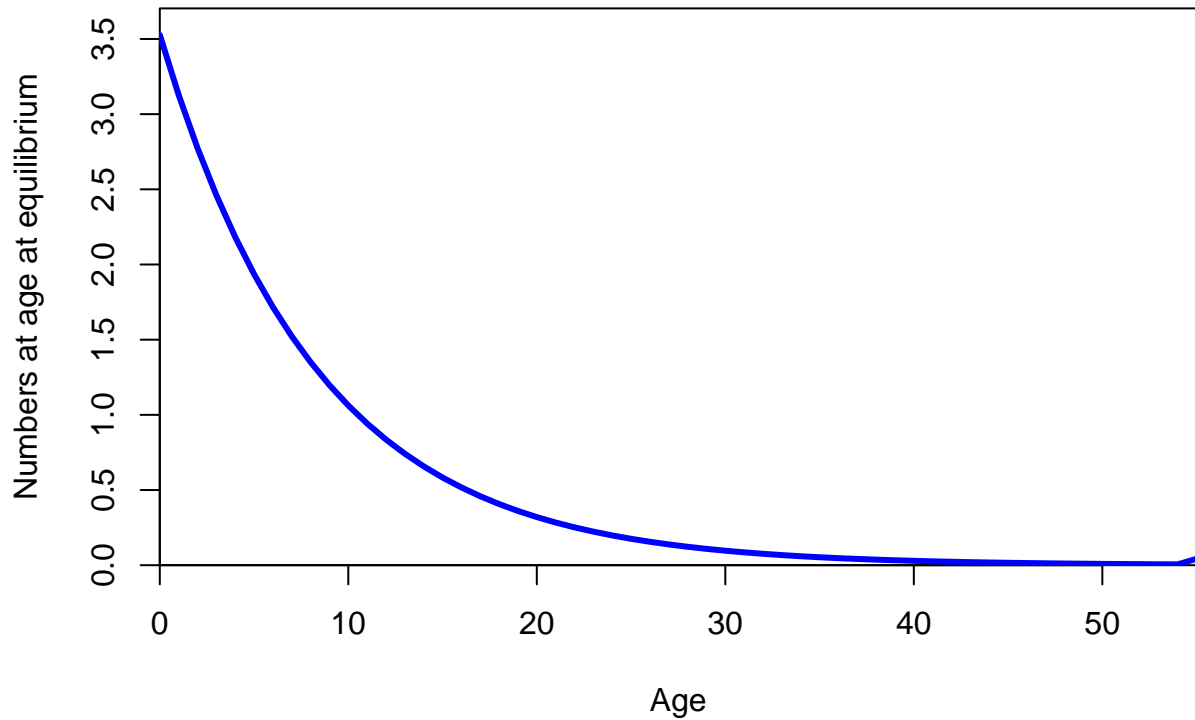






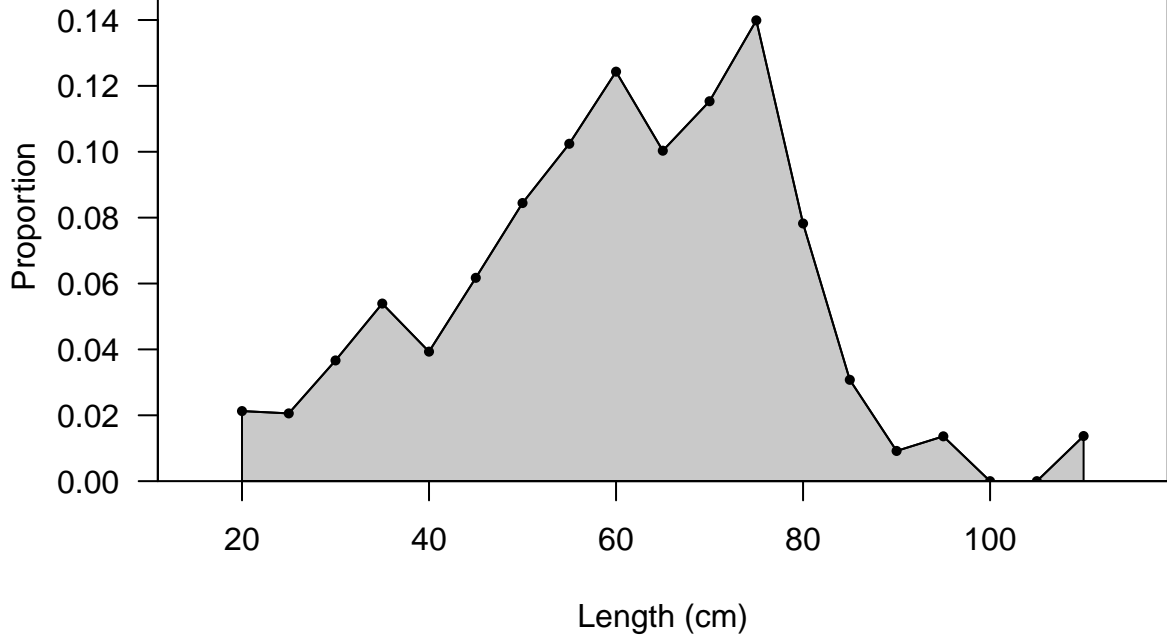






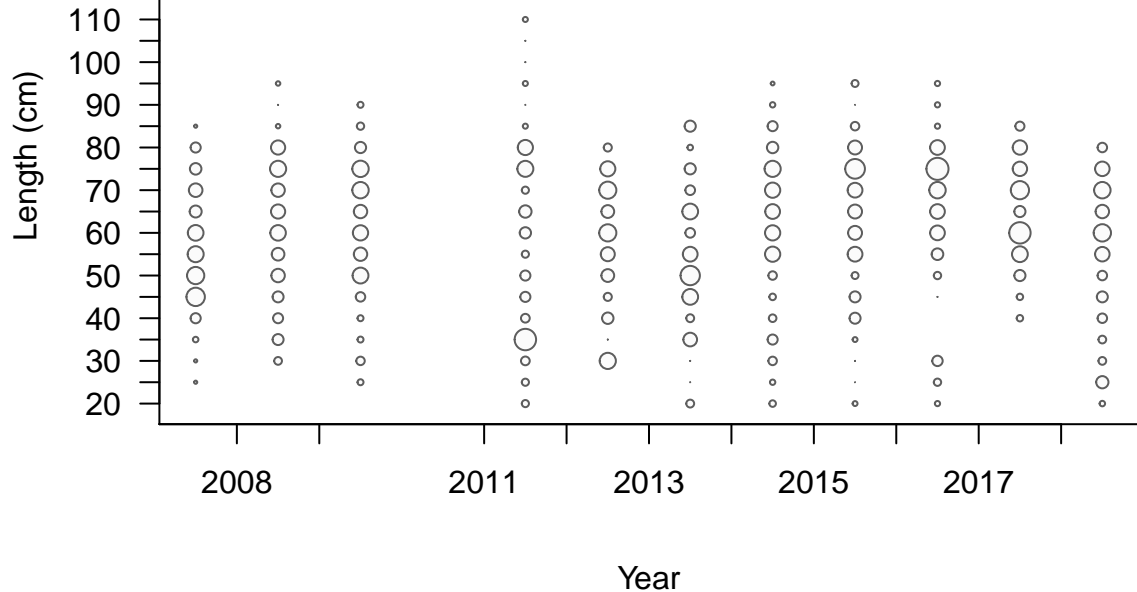
FISHERY

Sum of N adj.=712.5

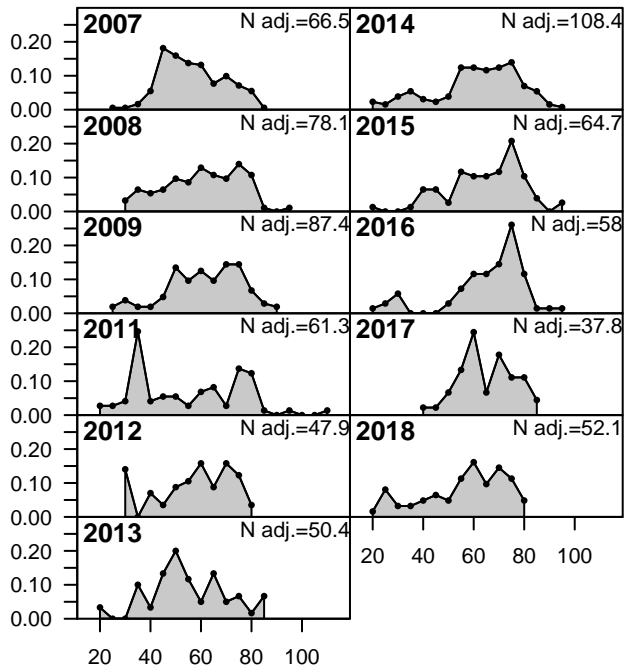


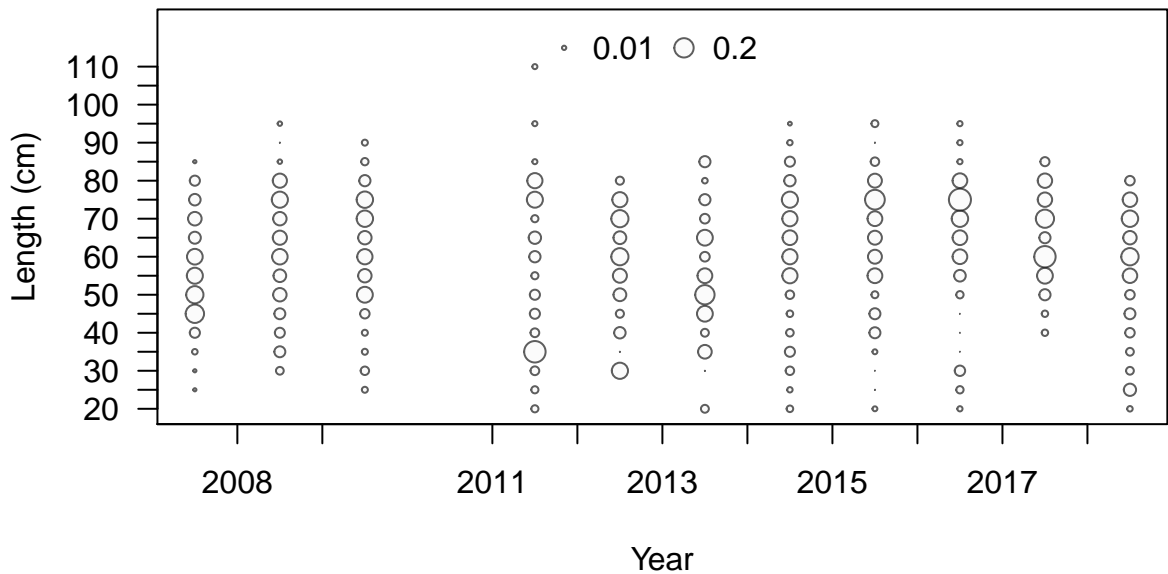
FISHERY

◦ 0.01 ○ 0.2

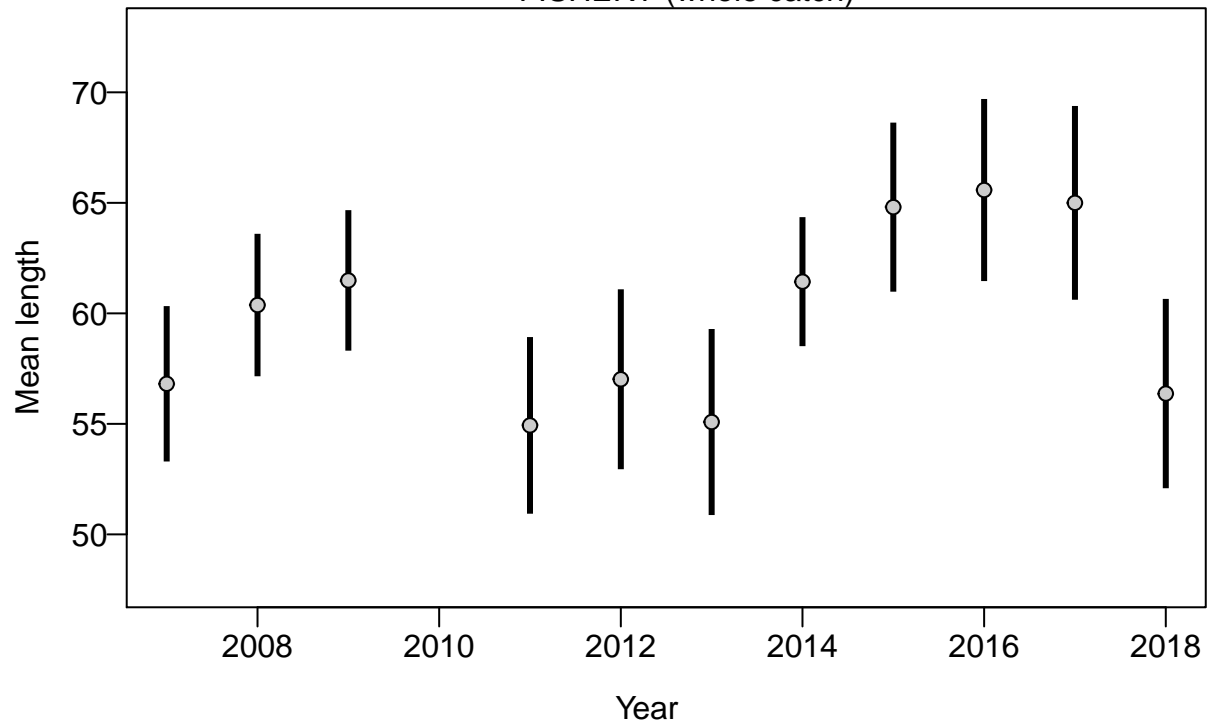


Proportion



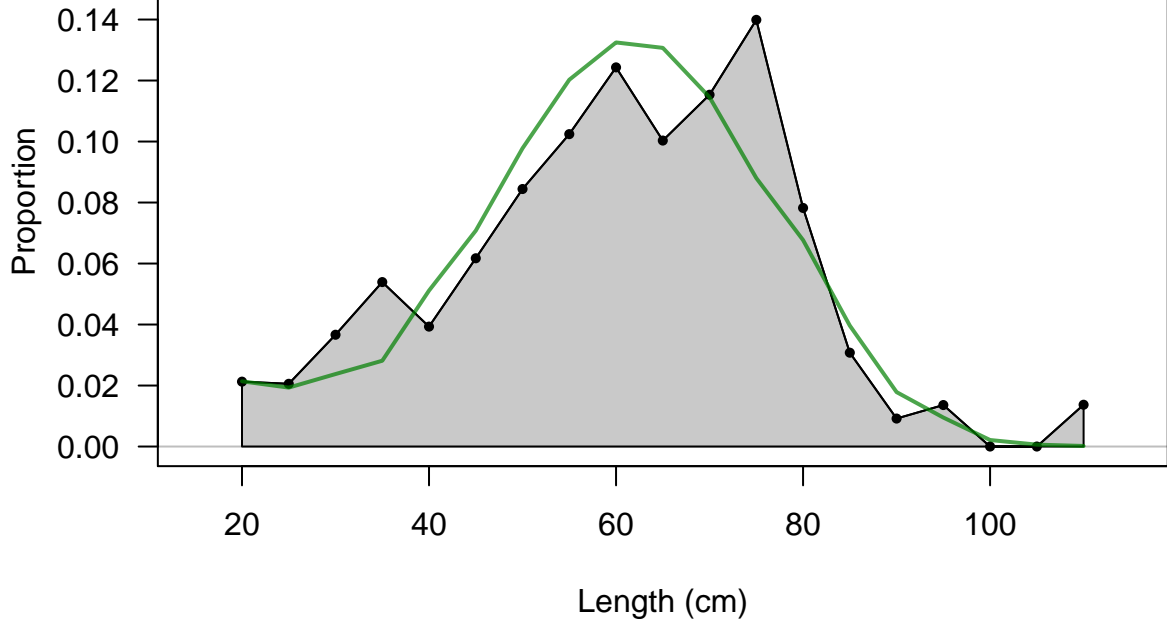


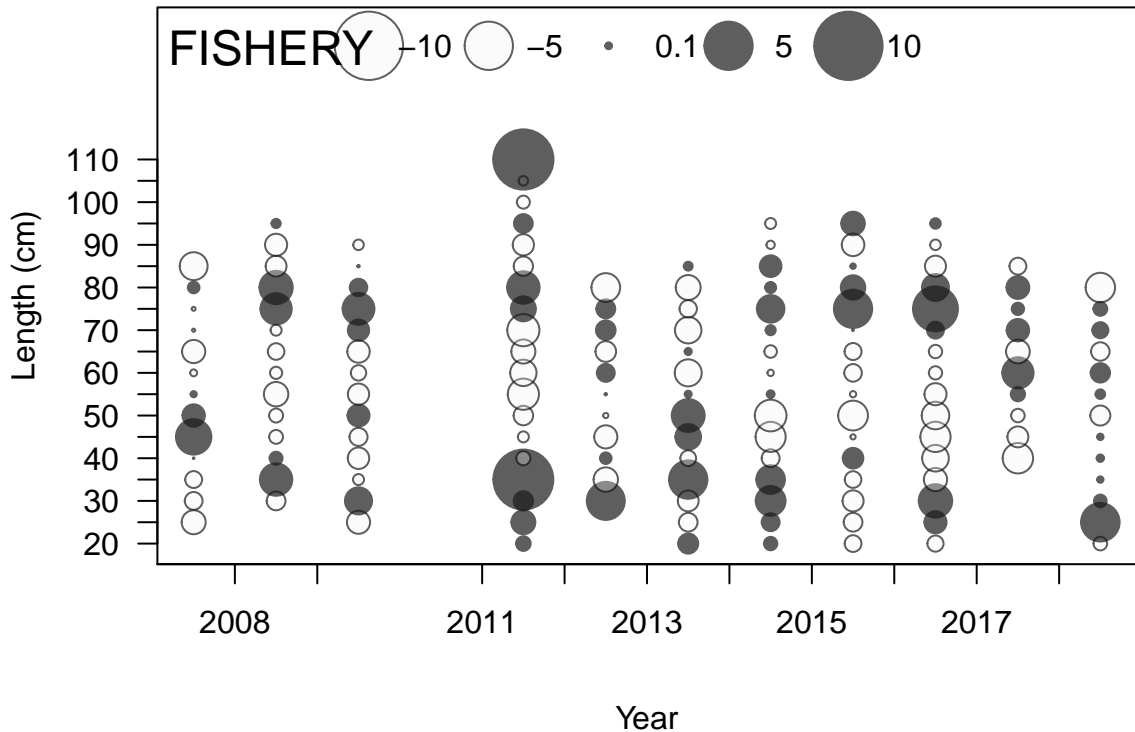
FISHERY (whole catch)



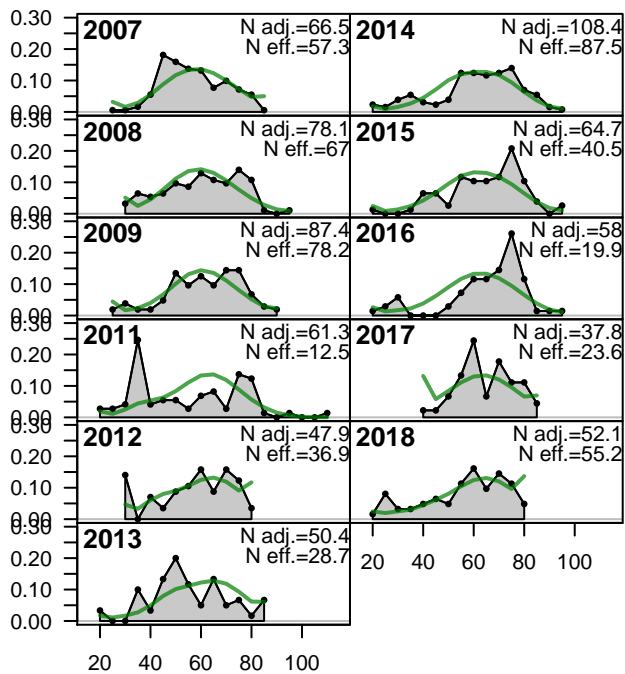
FISHERY

Sum of N adj.=712.5
Sum of N eff.=507.3

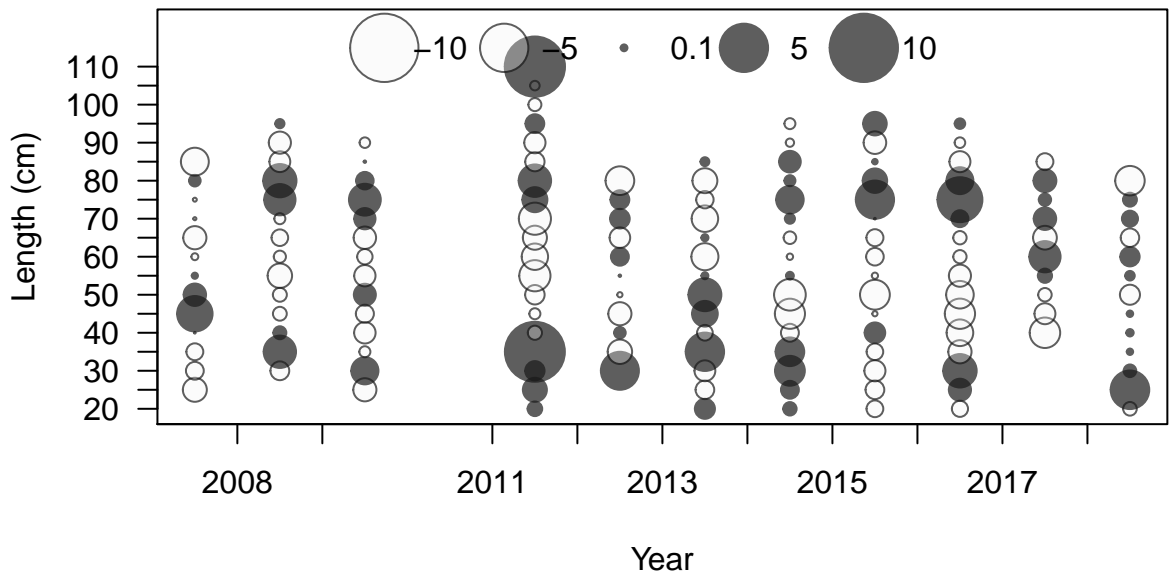


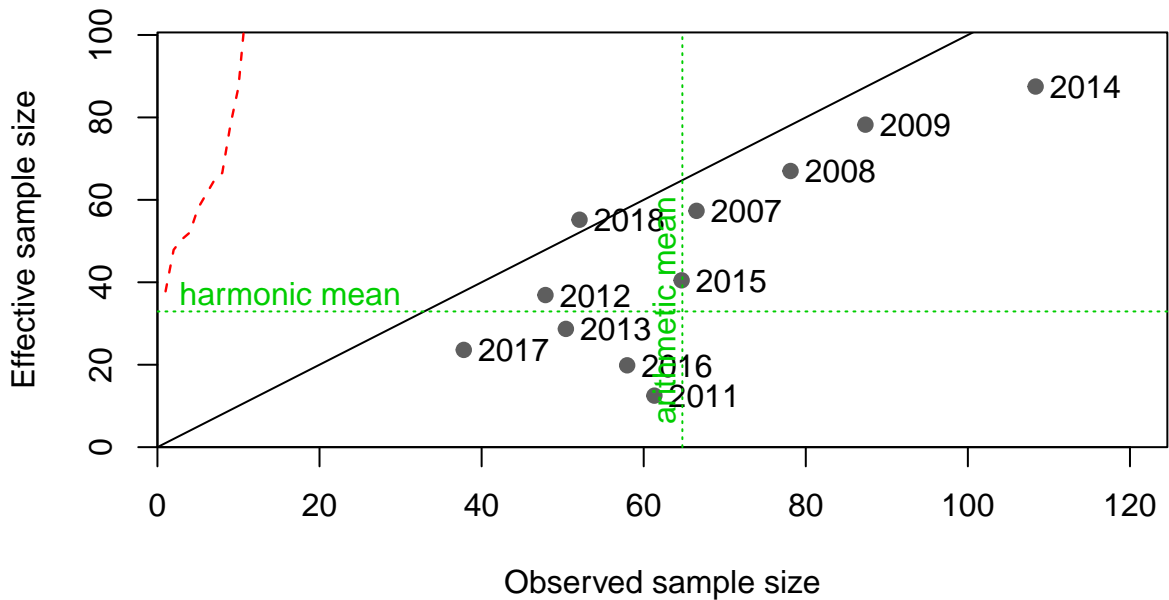


Proportion

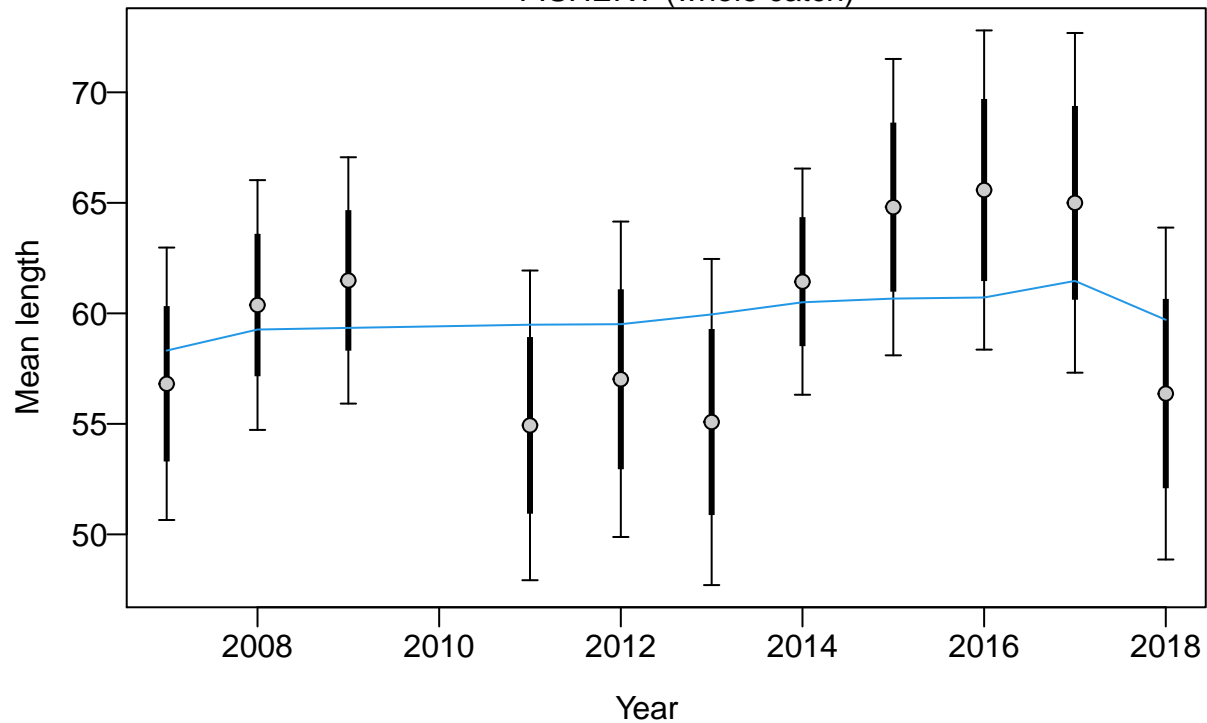


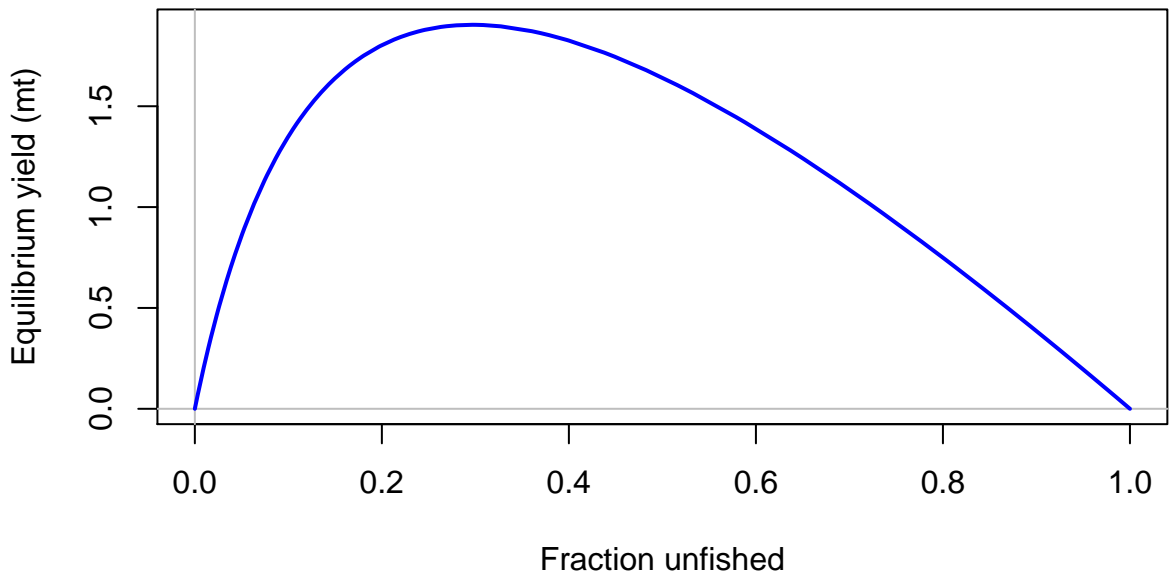
Length (cm)

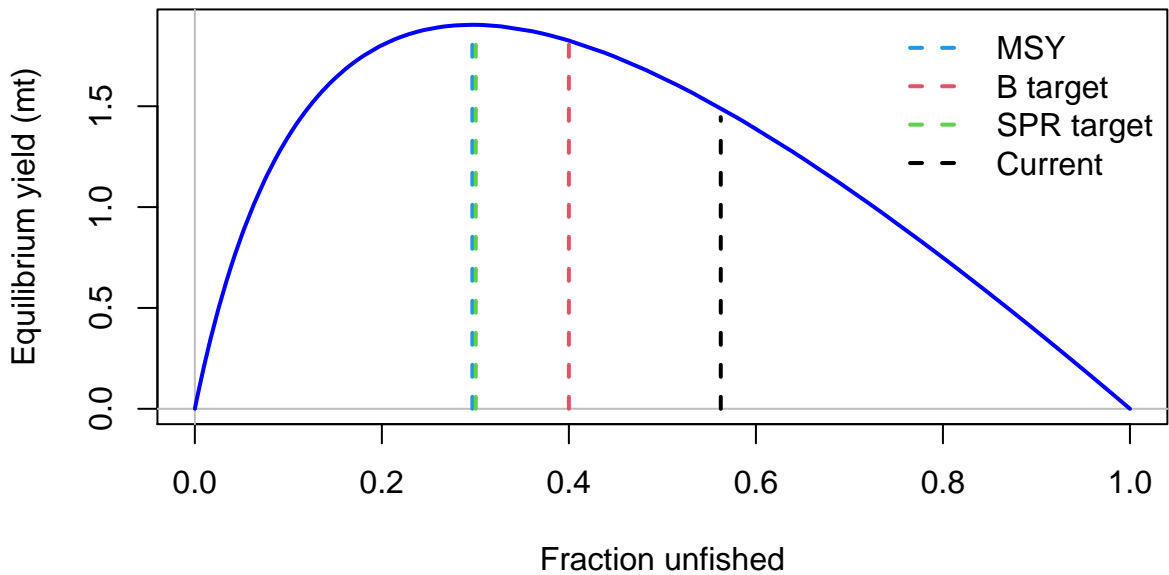


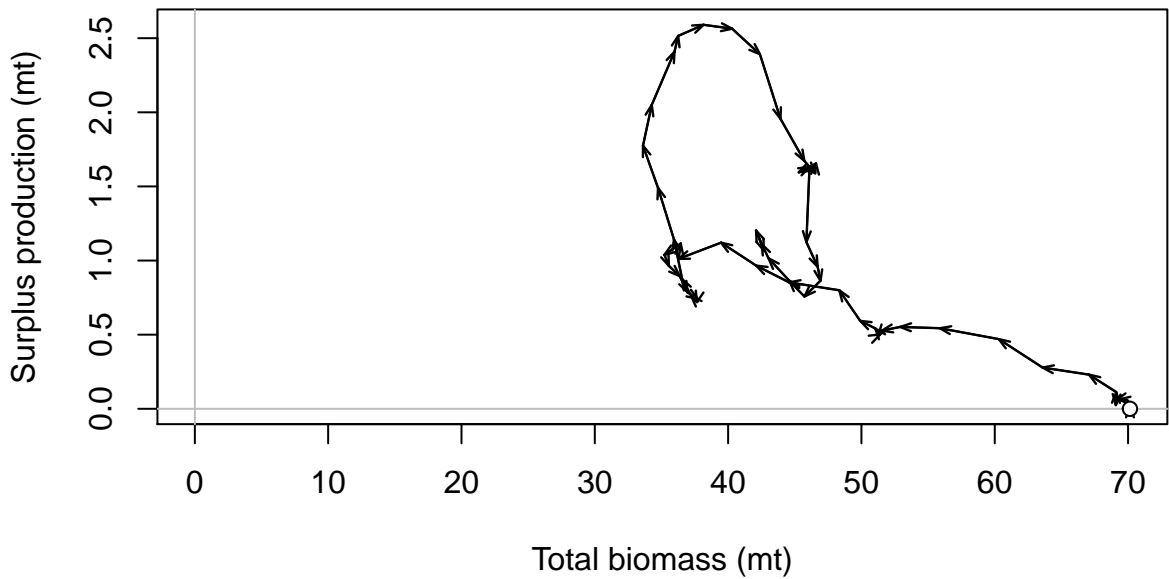


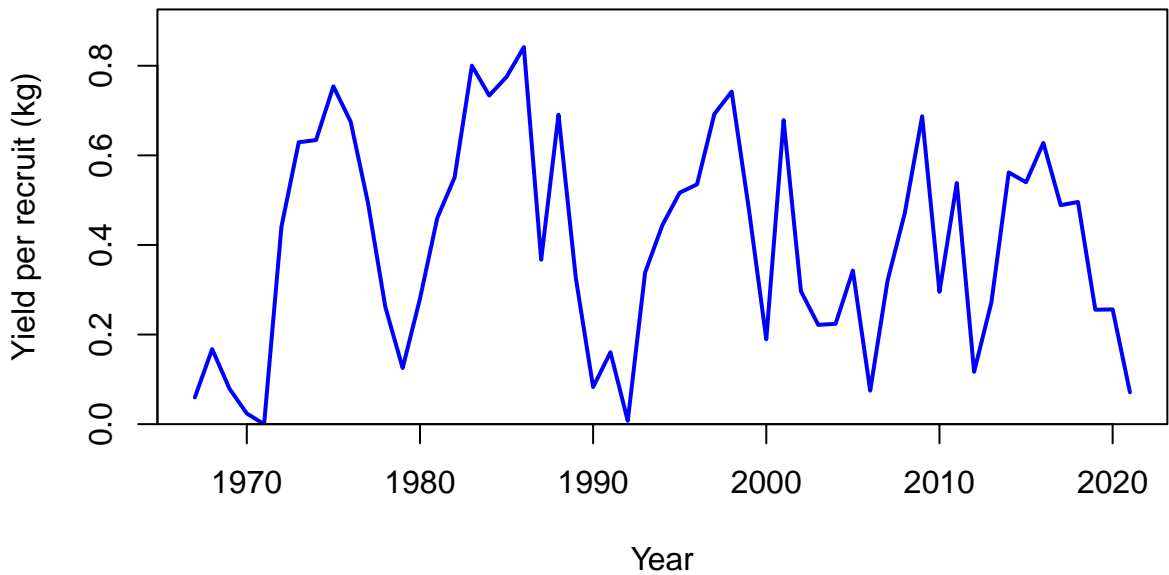
FISHERY (whole catch)

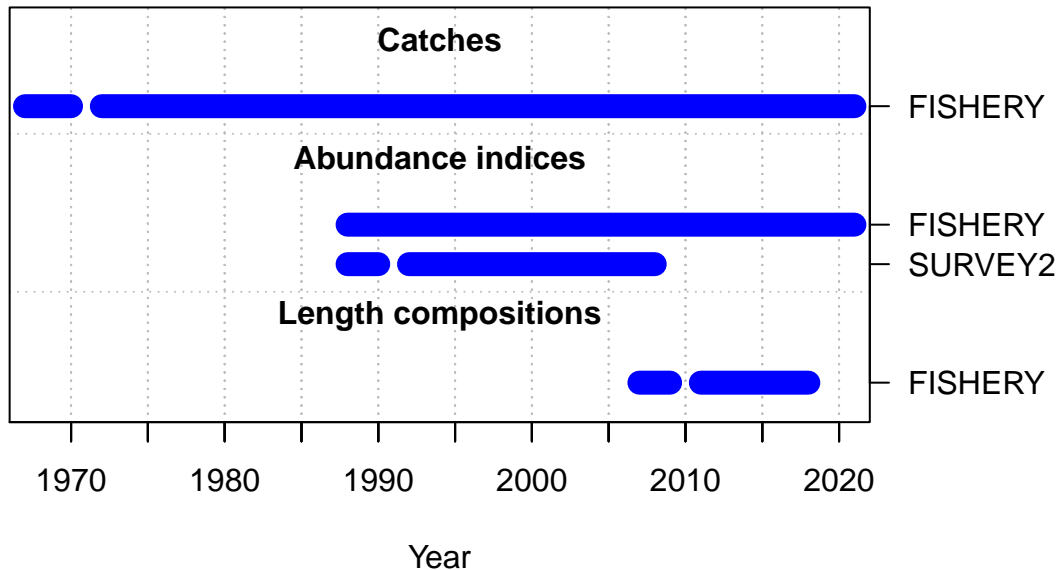


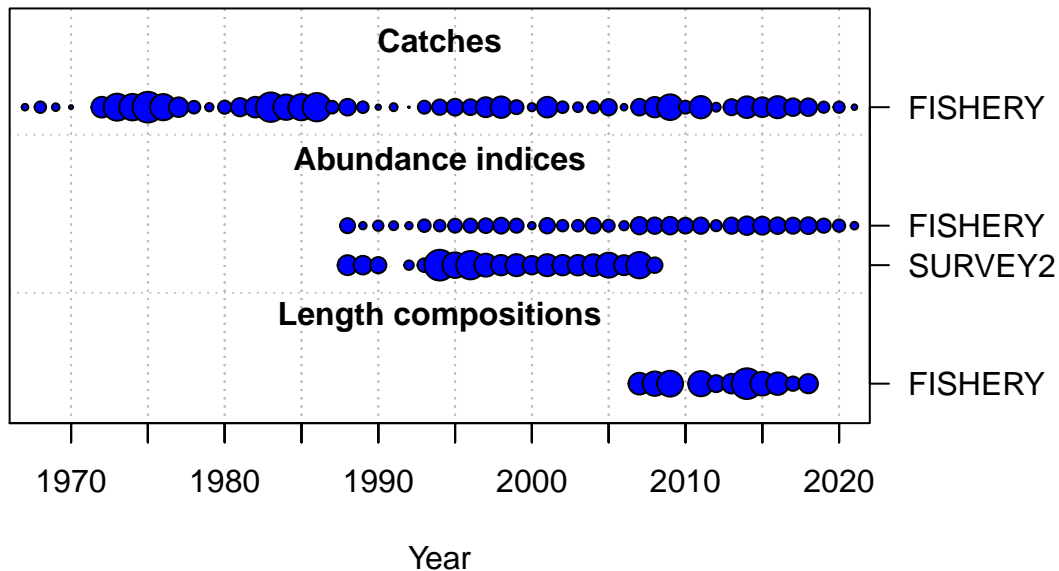












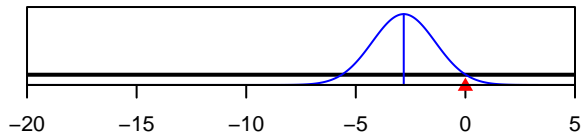
SR_LN(R0)



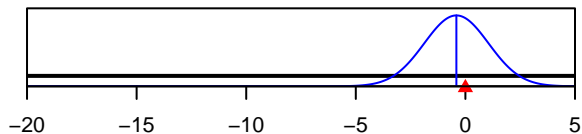
Size_95%width_FISHERY(1)



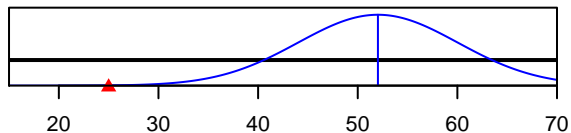
LnQ_base_FISHERY(1)



LnQ_base_SURVEY2(2)



Size_inflection_FISHERY(1)



Parameter value