

Plots created using the 'r4ss' package in R

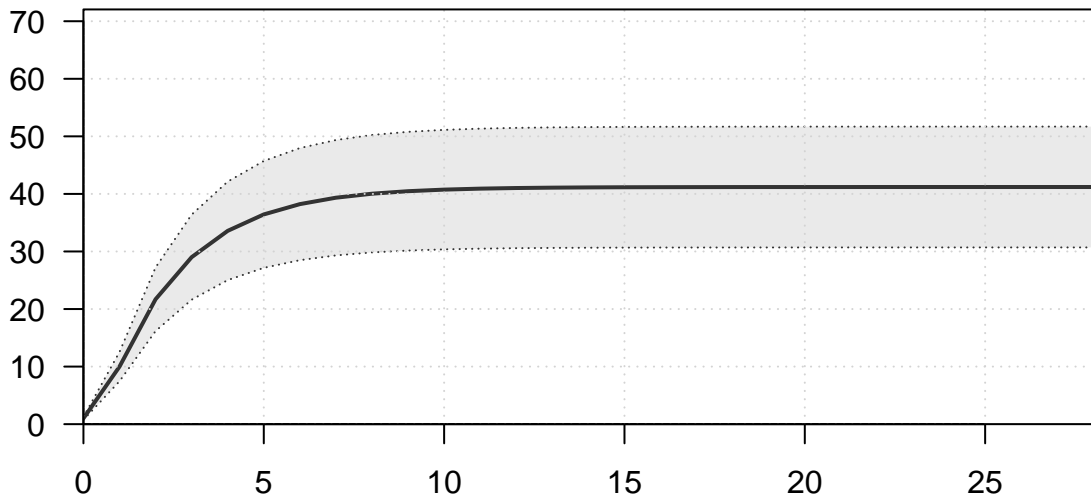
Stock Synthesis version: 3.30.19.0

StartTime: Wed Jun 29 15:34:35 2022

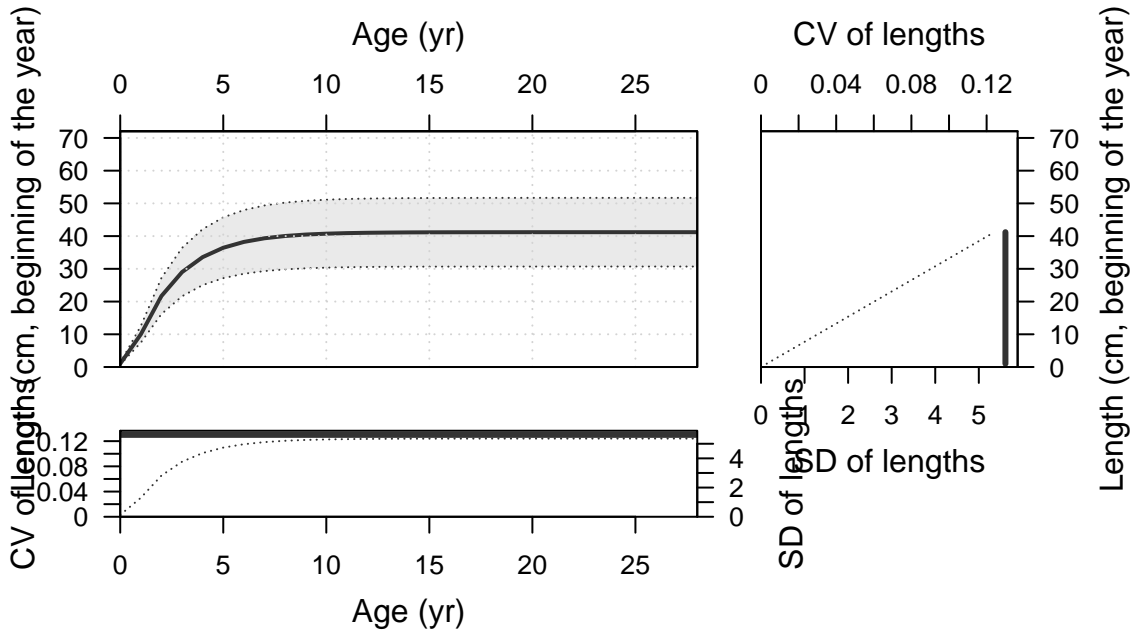
Data_File: data.ss

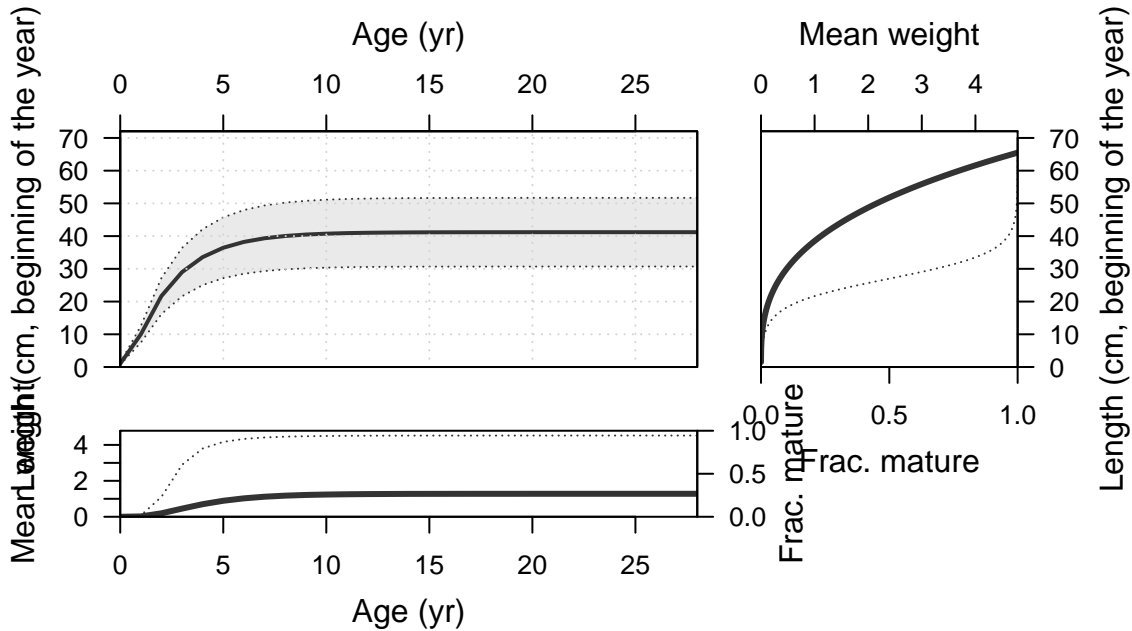
Control_File: control.ss

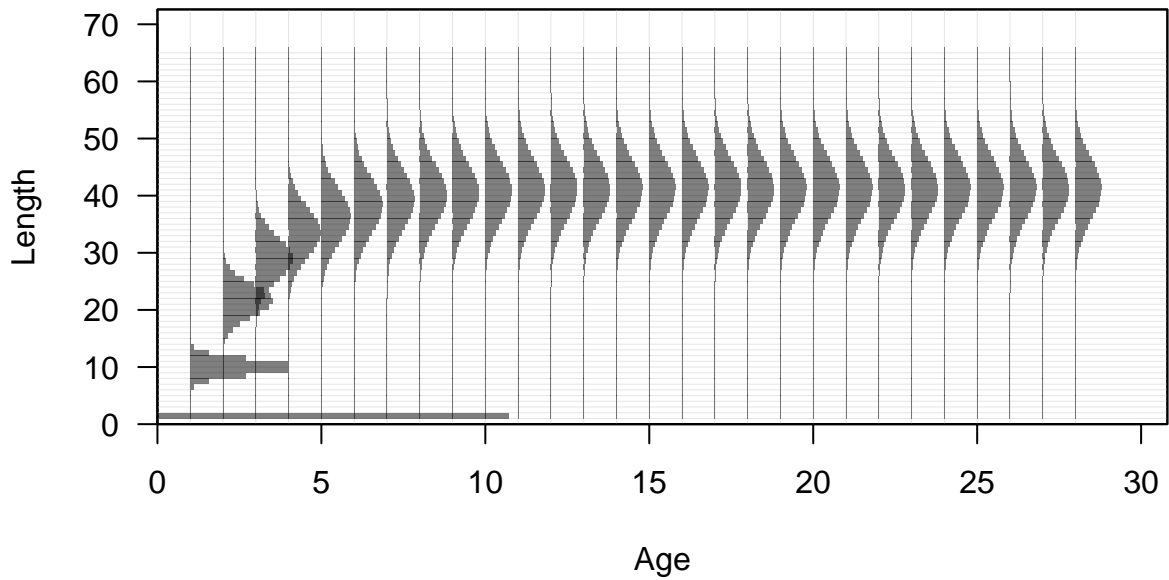
Length (cm, beginning of the year)

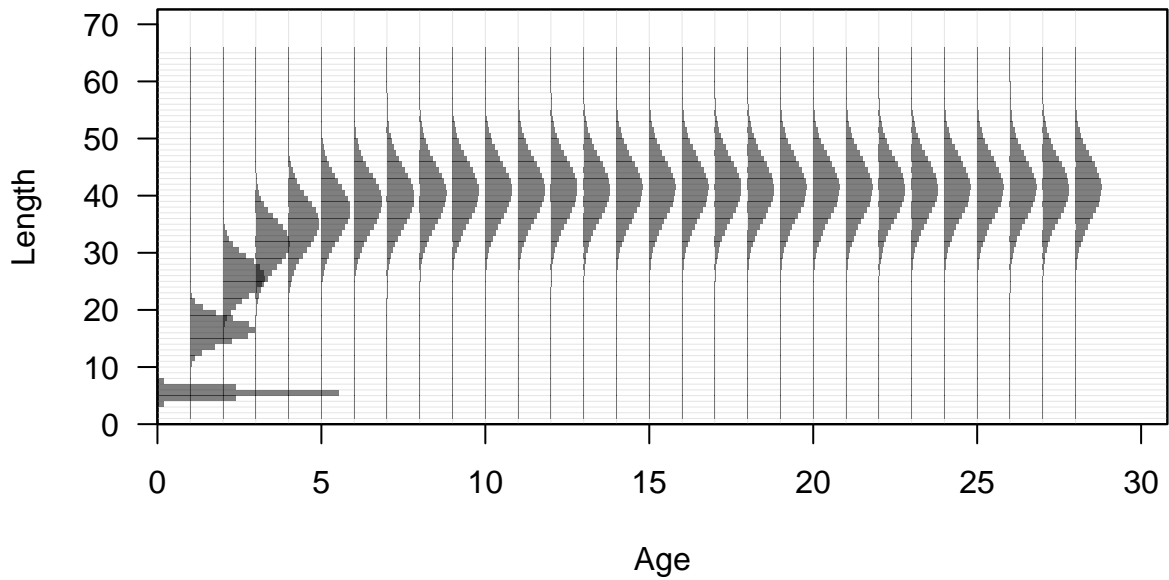


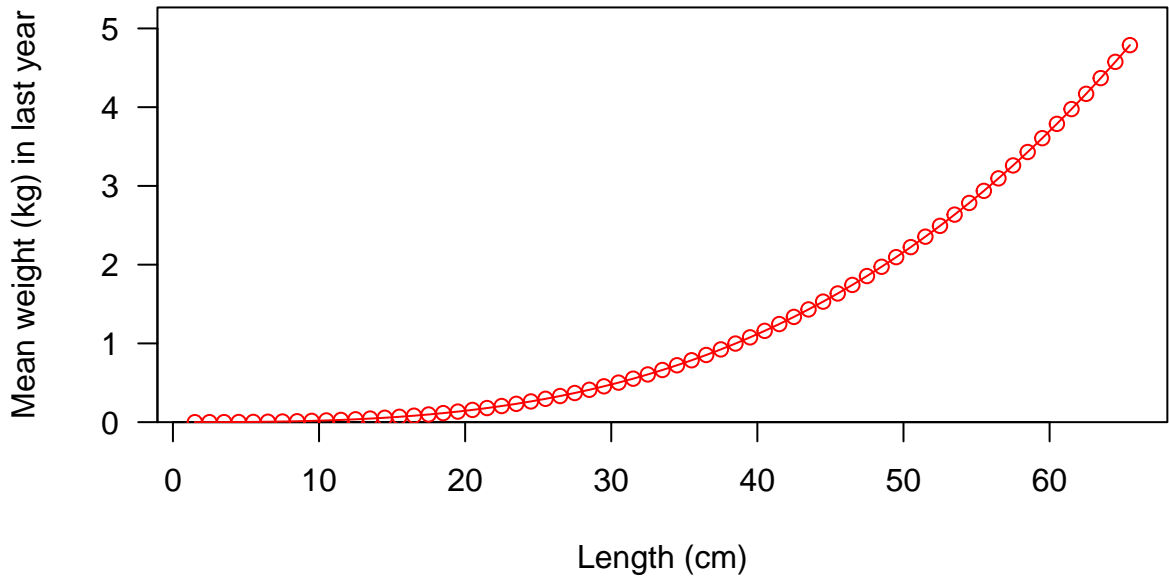
Age (yr)

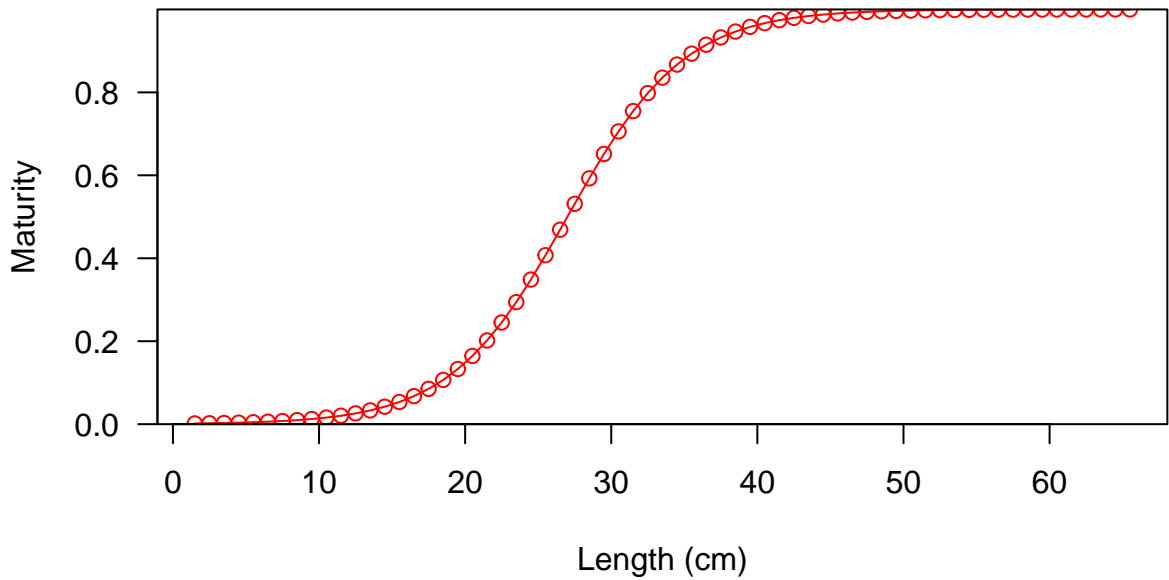


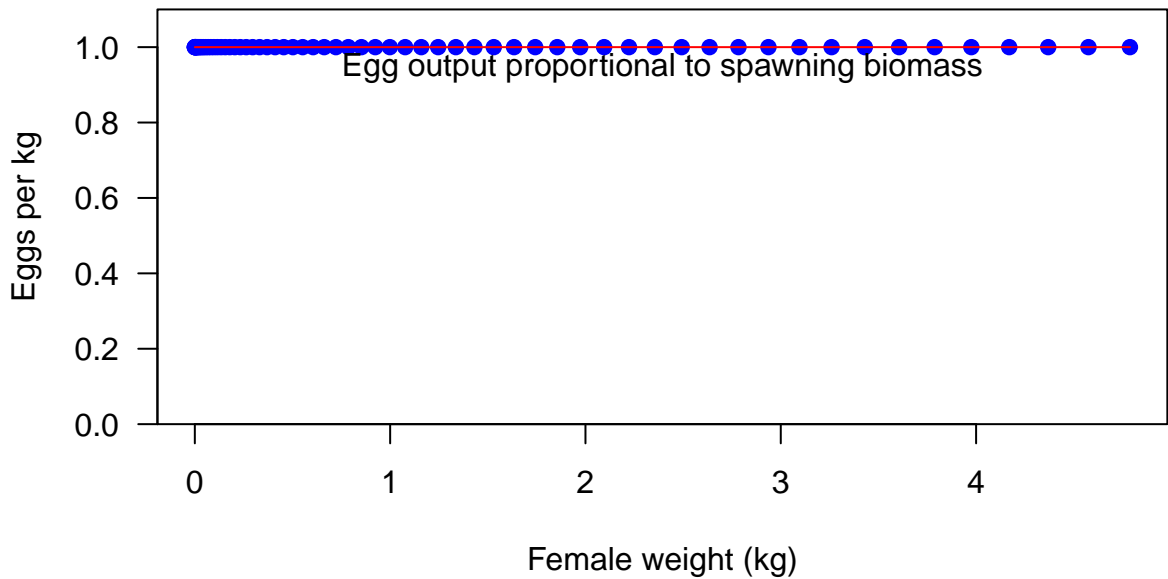




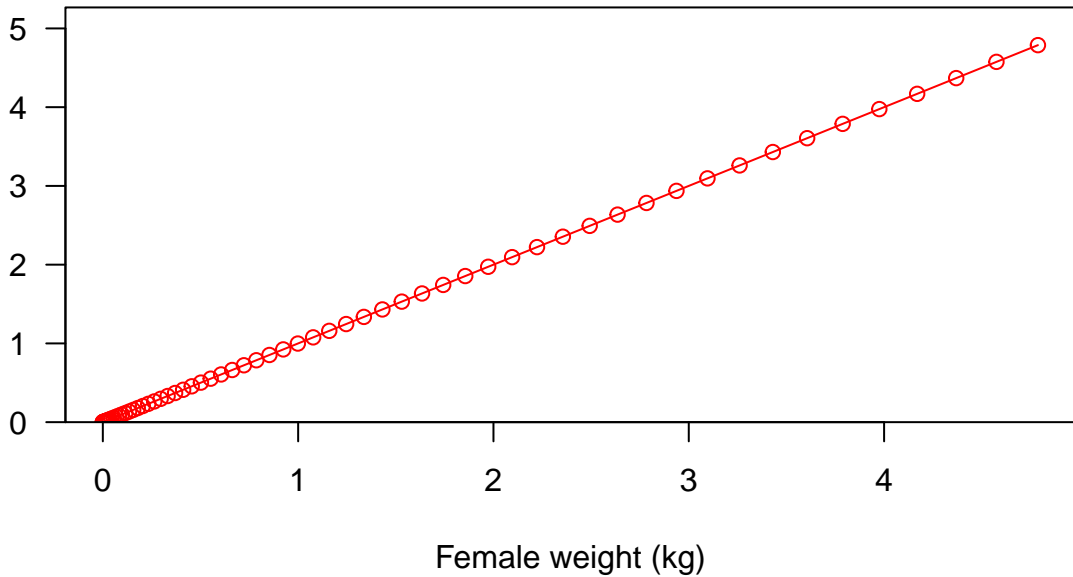




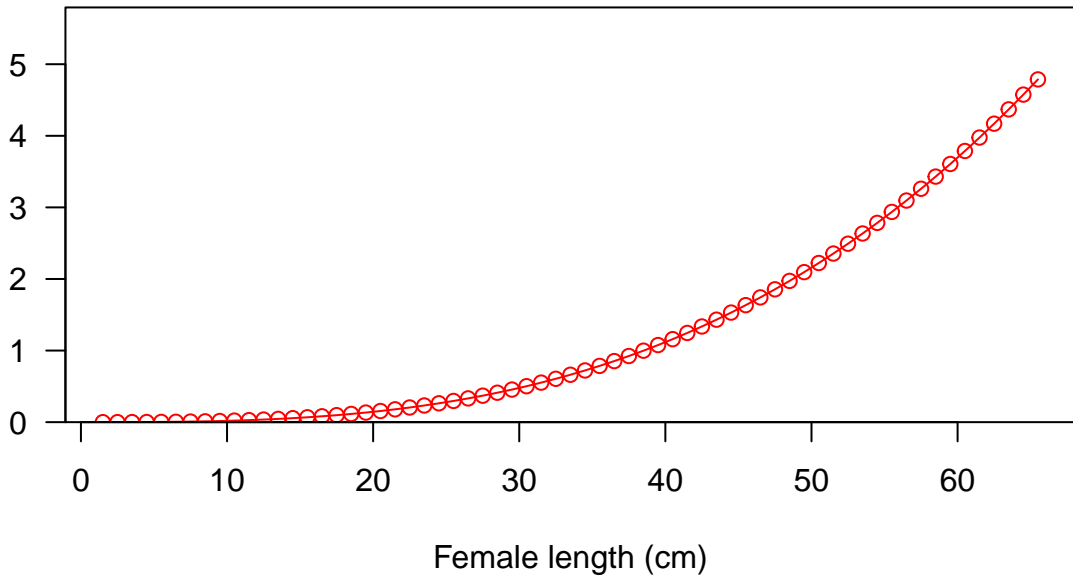




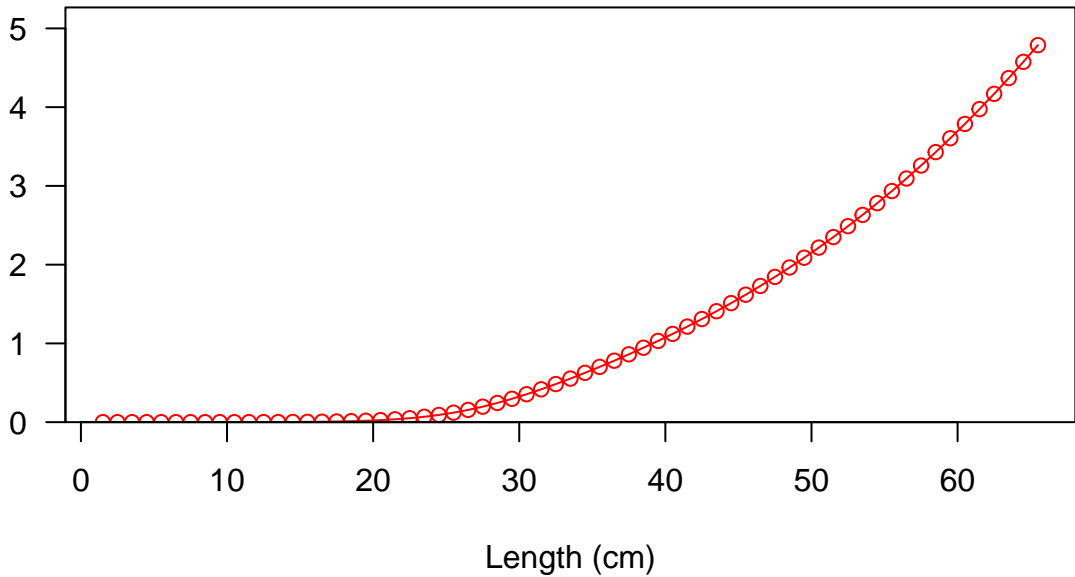
Fecundity

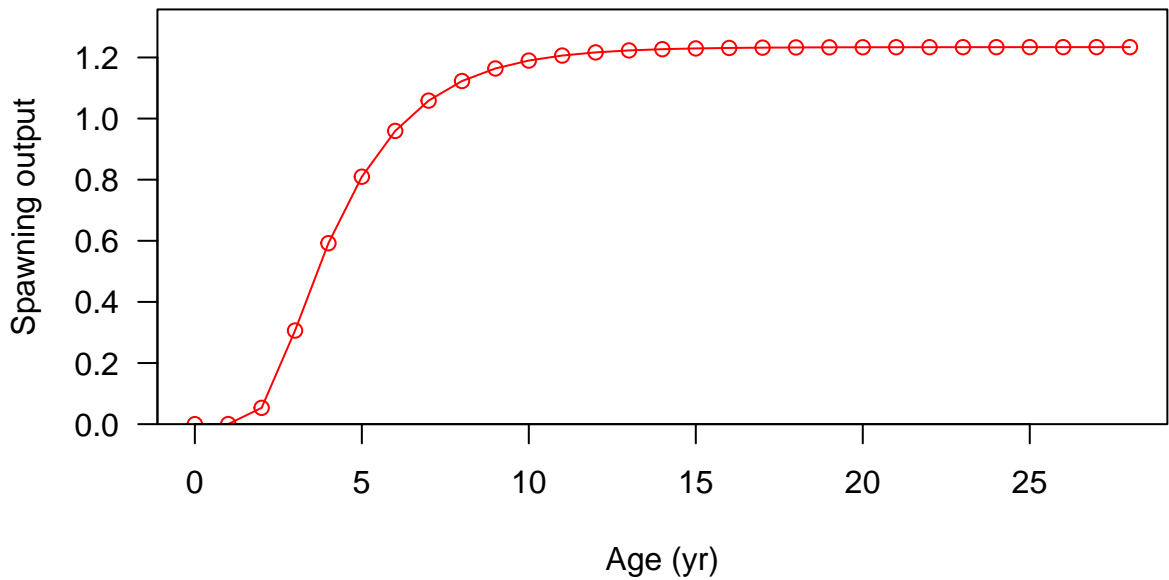


Fecundity

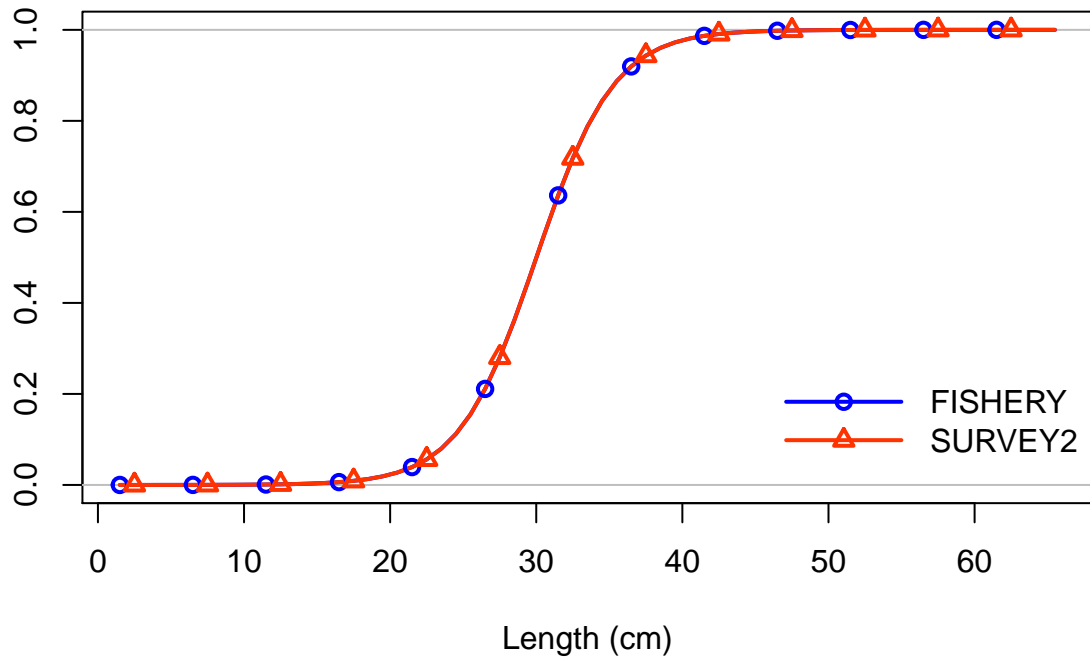


Spawning output

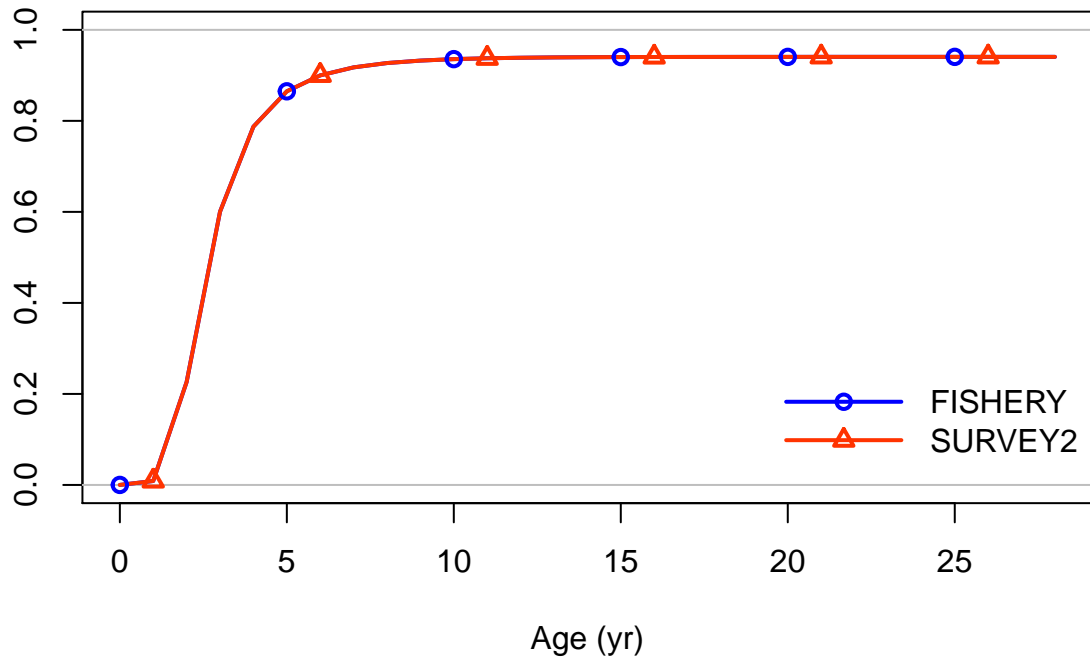




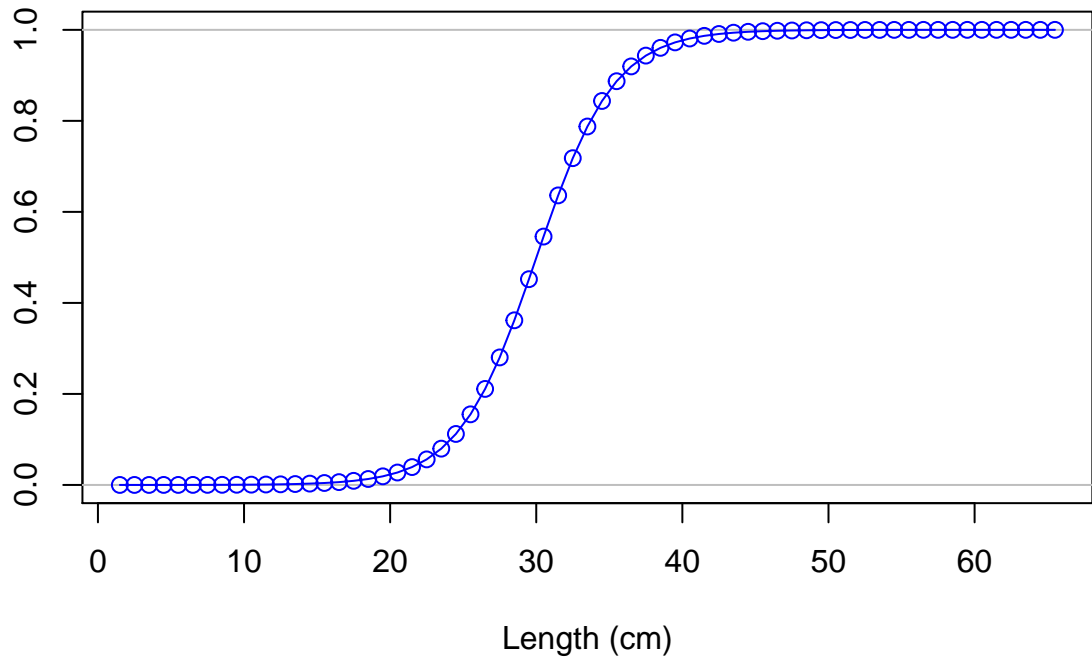
Selectivity



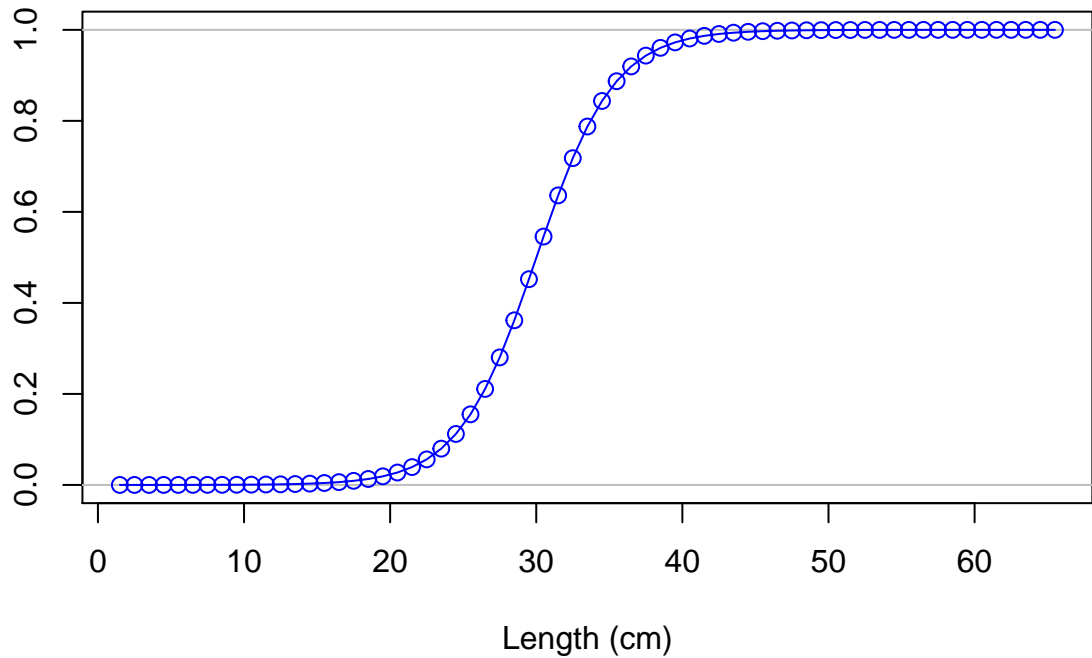
Selectivity

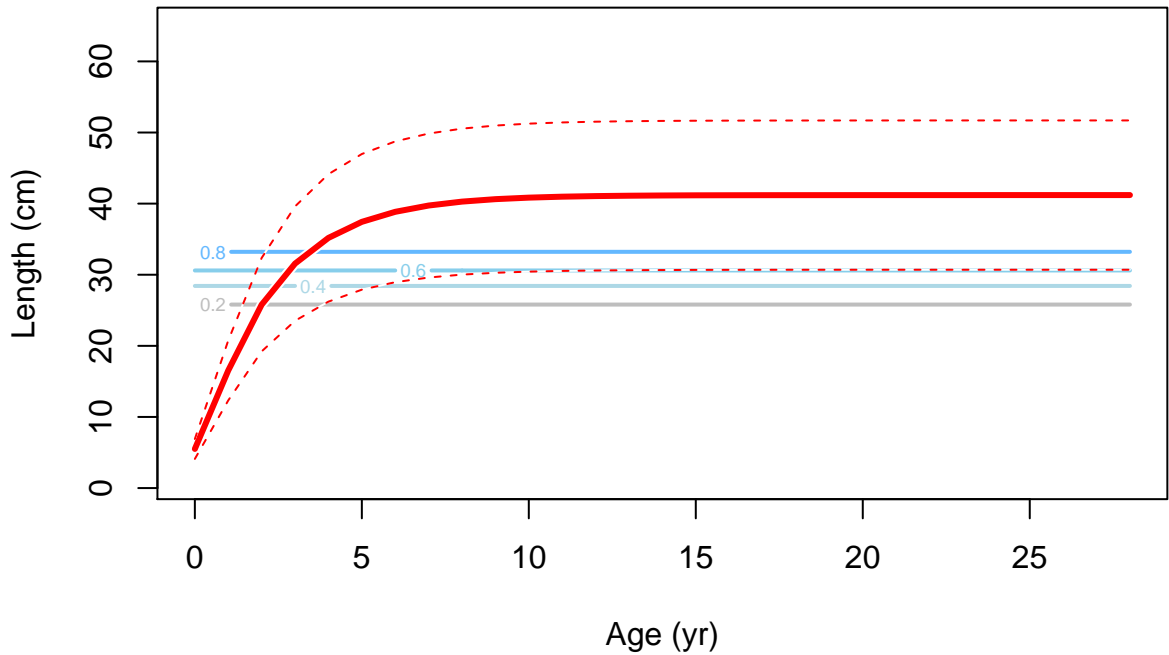


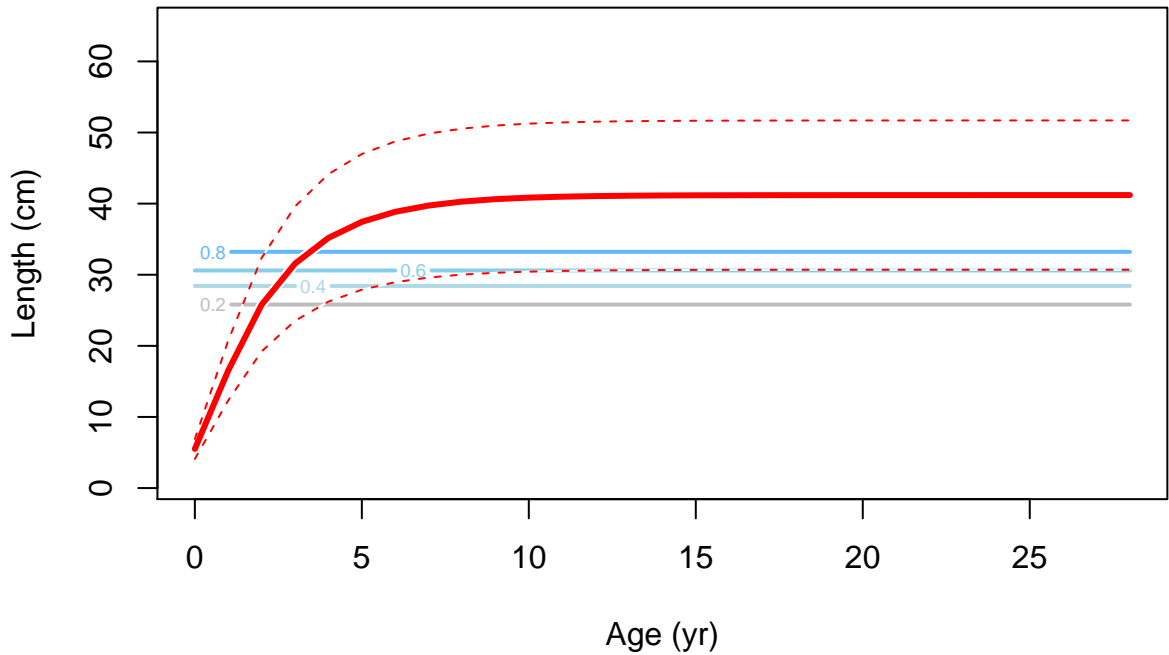
Selectivity



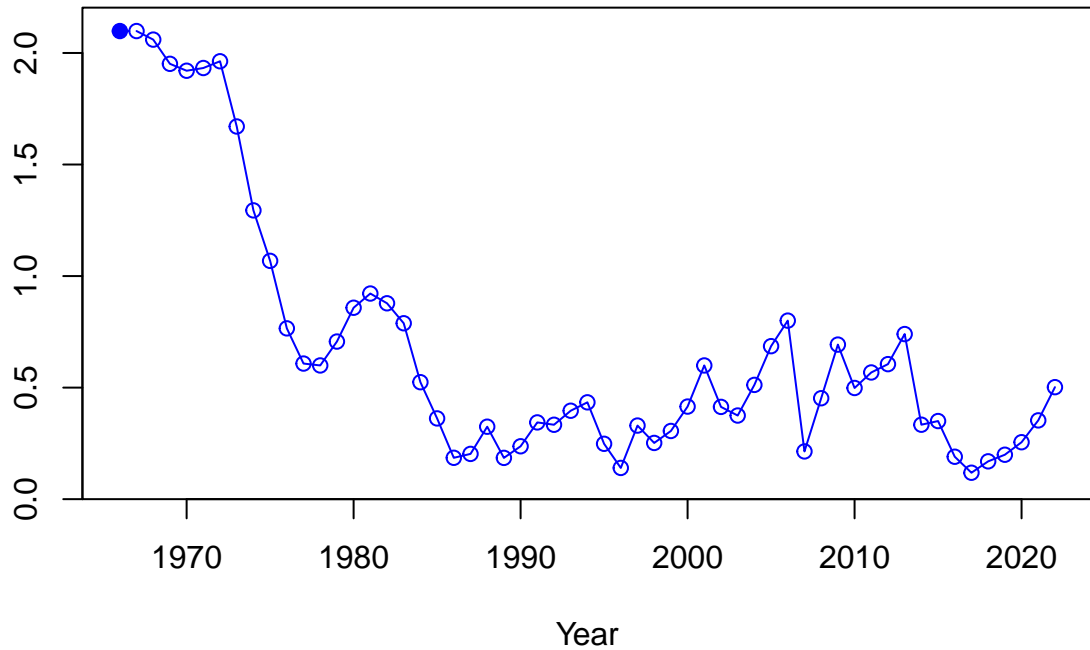
Selectivity



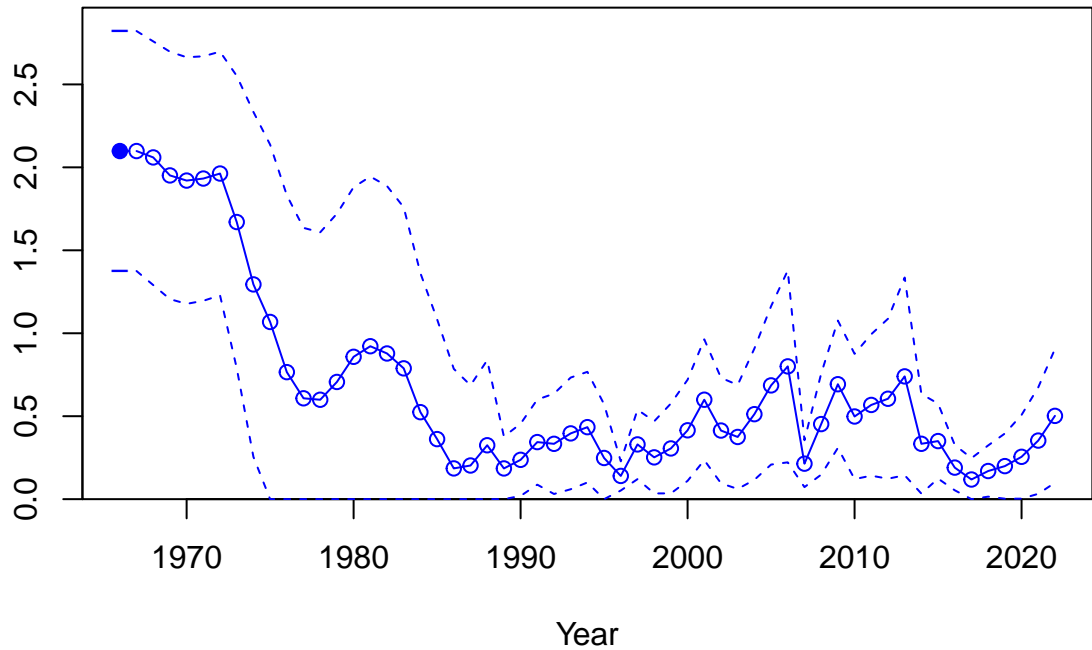




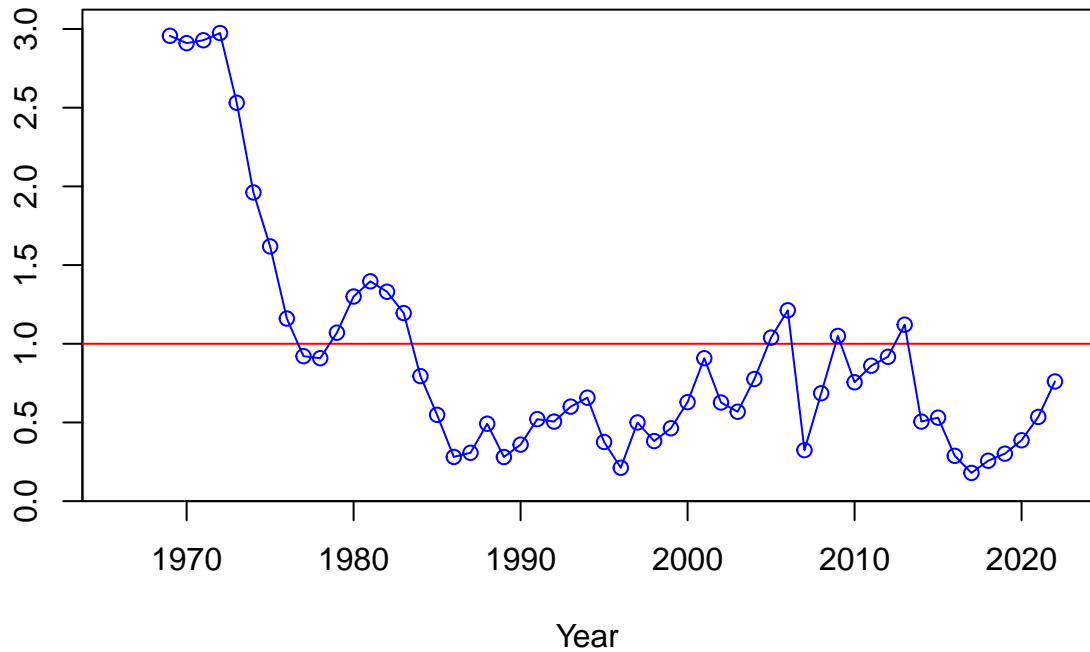
Spawning biomass (mt)



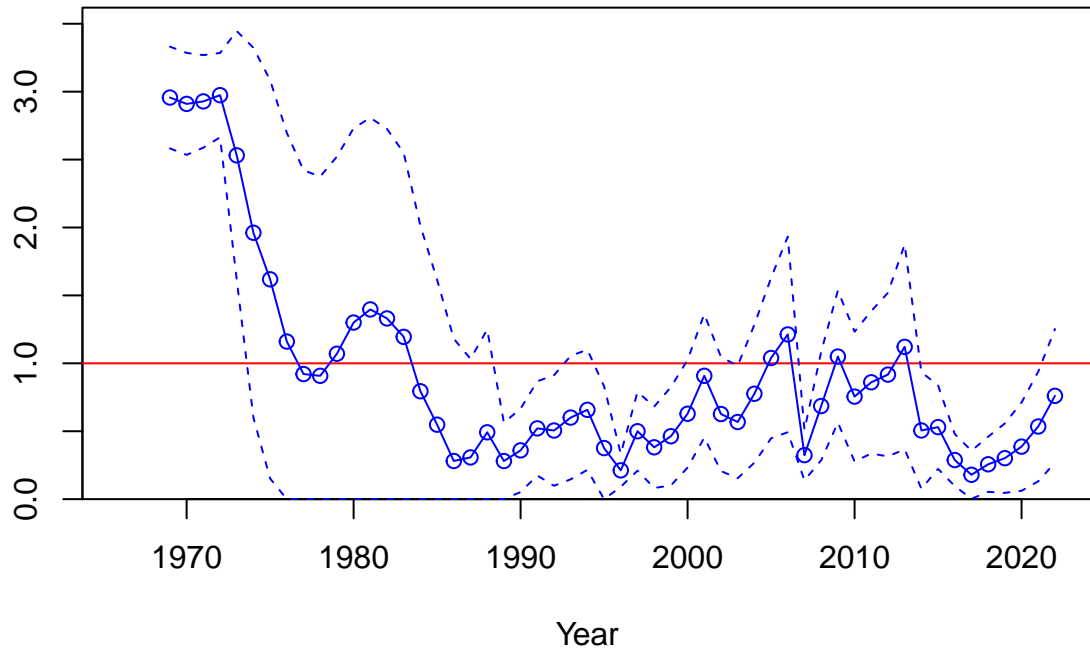
Spawning biomass (mt)

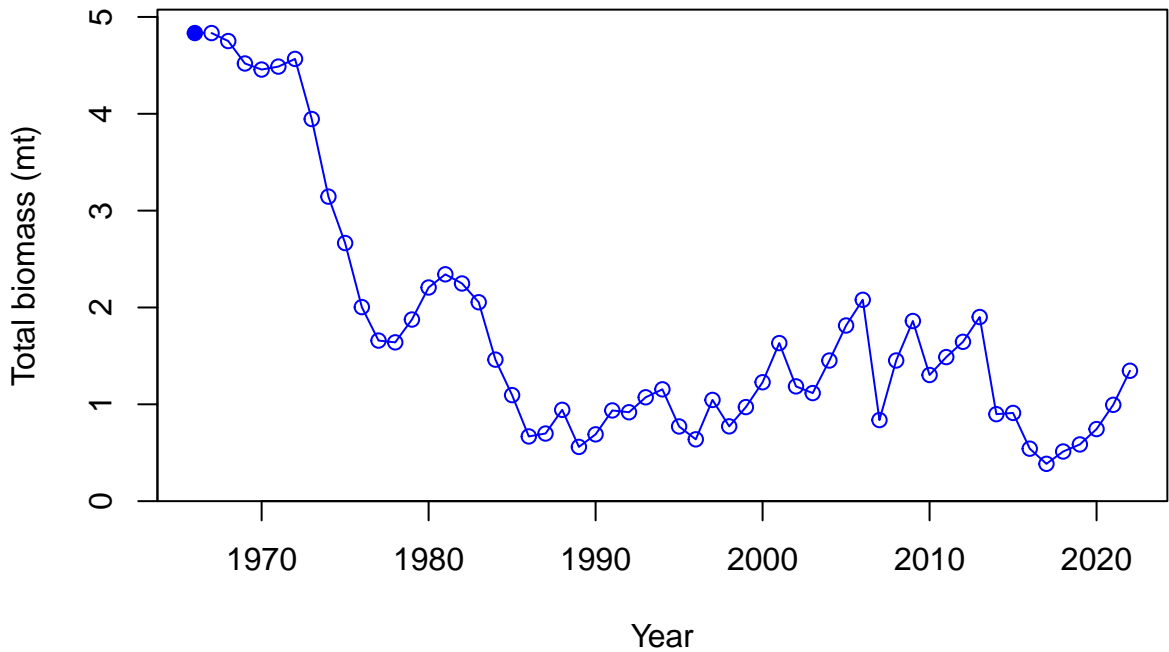


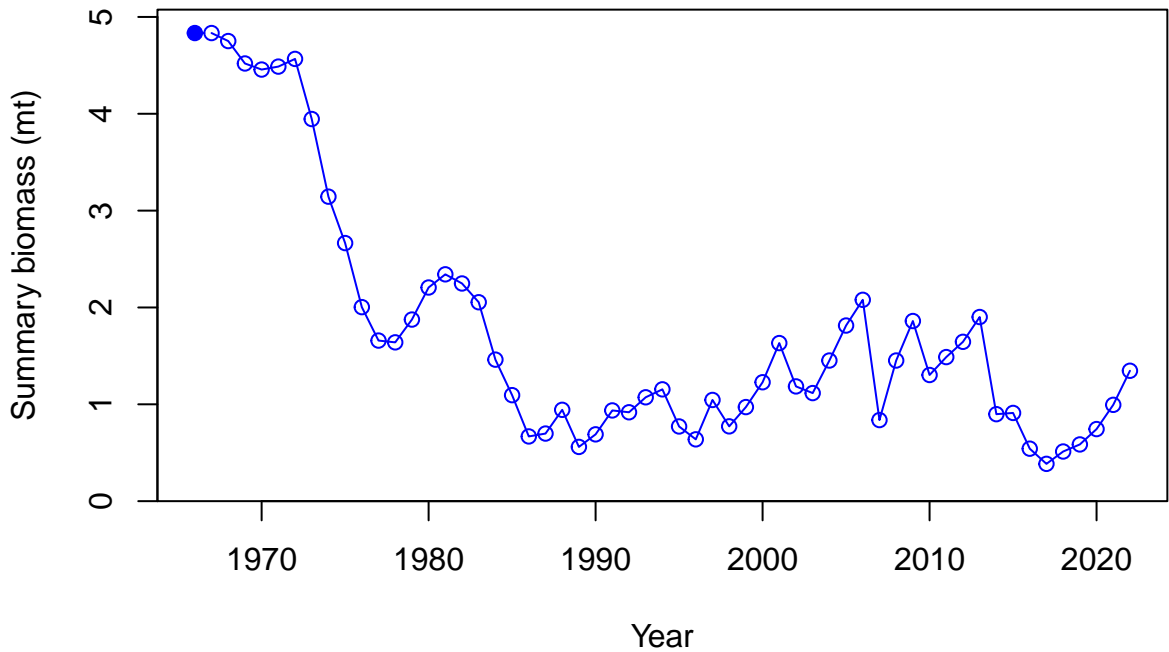
Relative spawning biomass: B/B_{MSY}



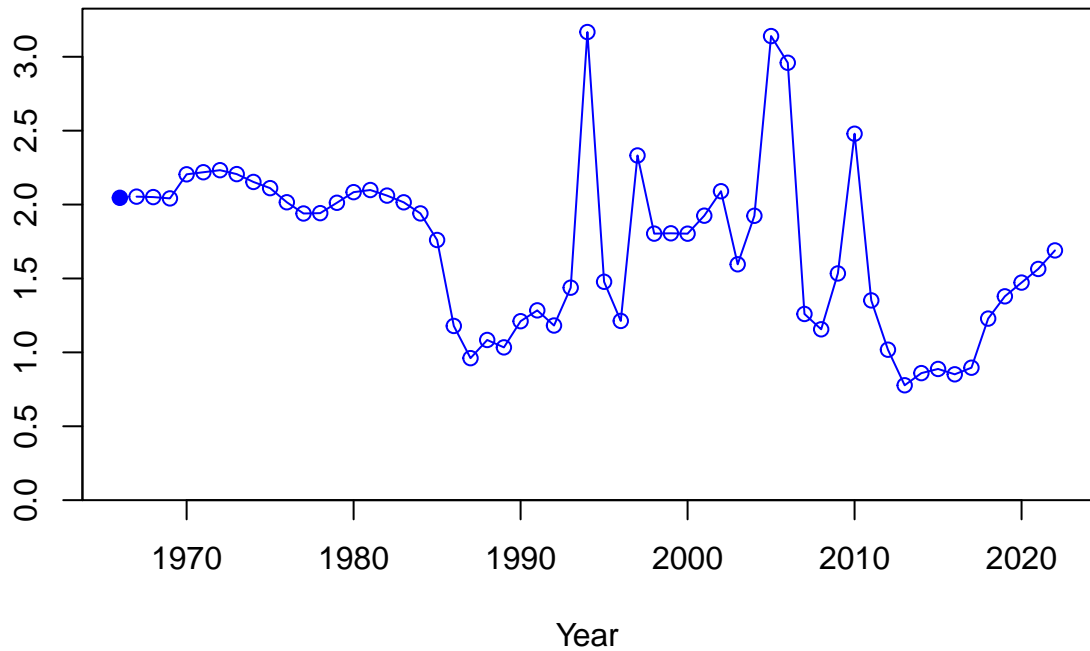
Relative spawning biomass: B/B_{MSY}



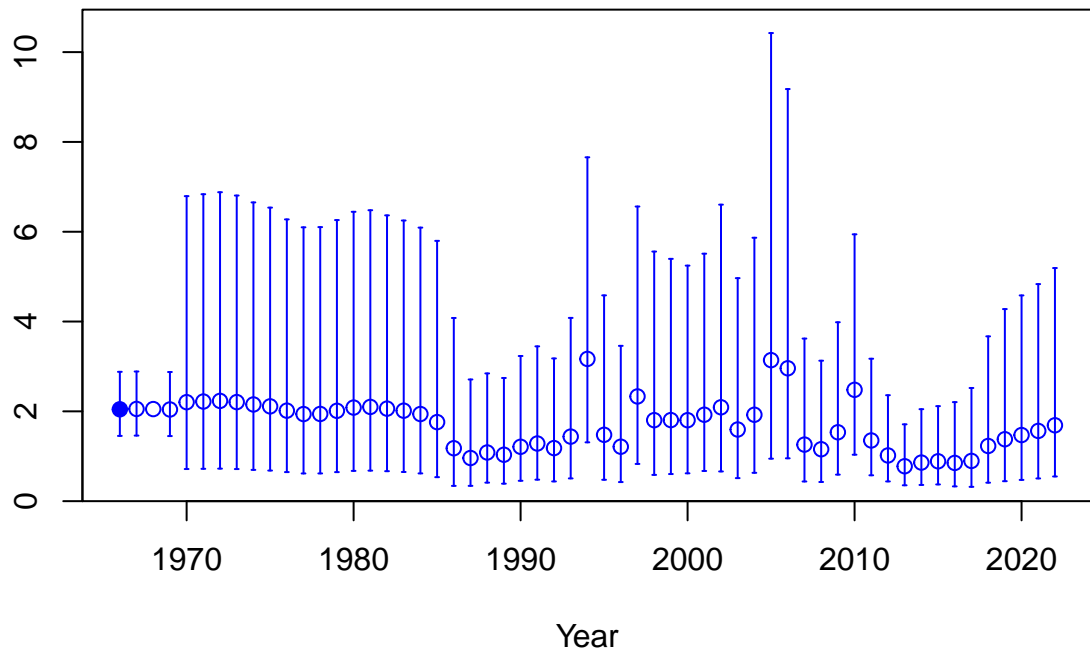




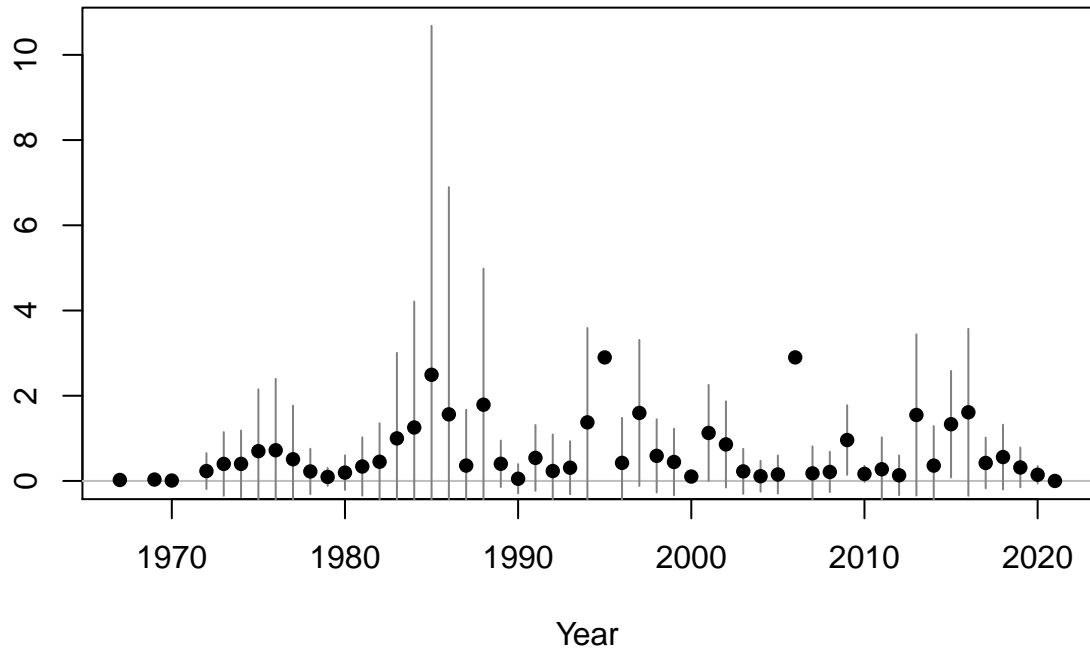
Age-0 recruits (1,000s)

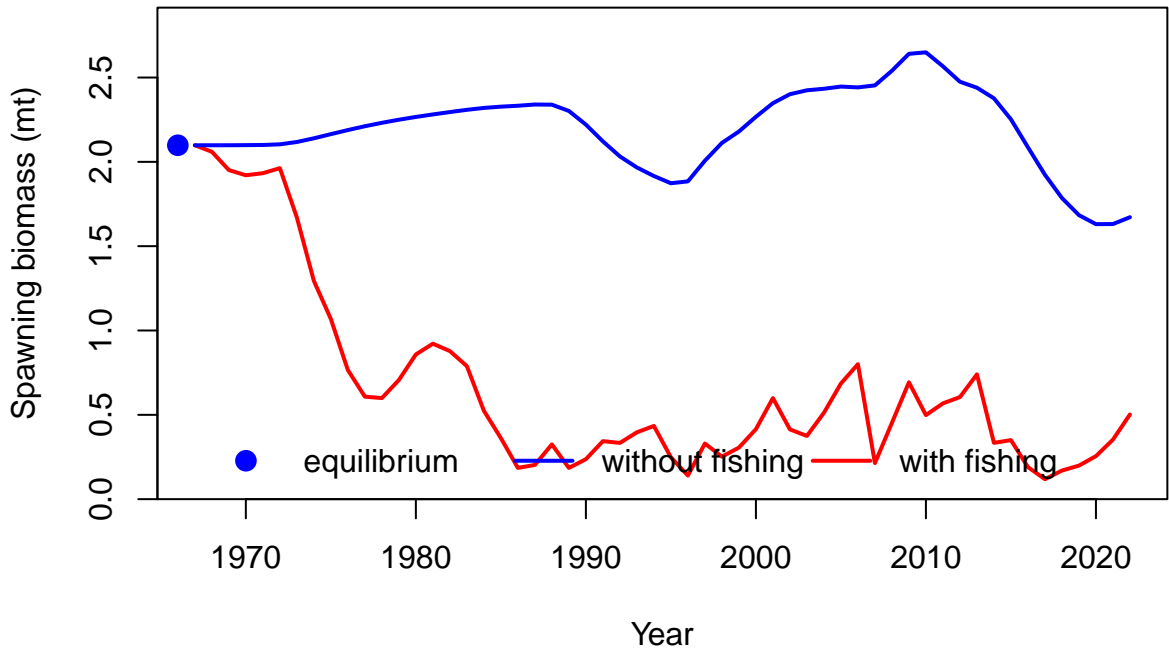


Age-0 recruits (1,000s)

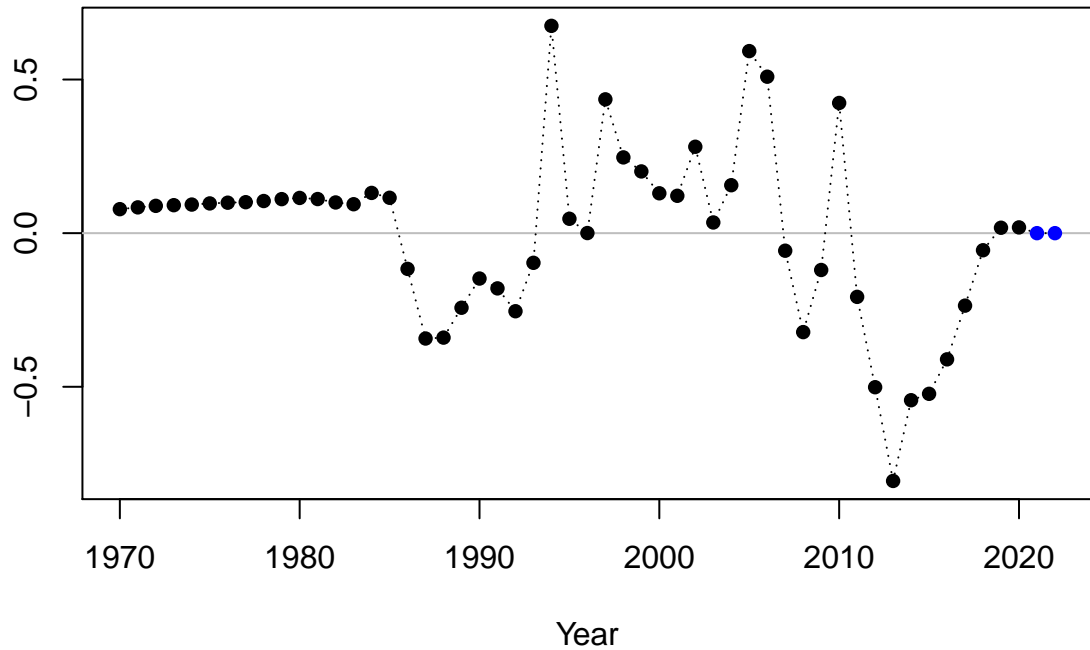


Summary Fishing Mortality

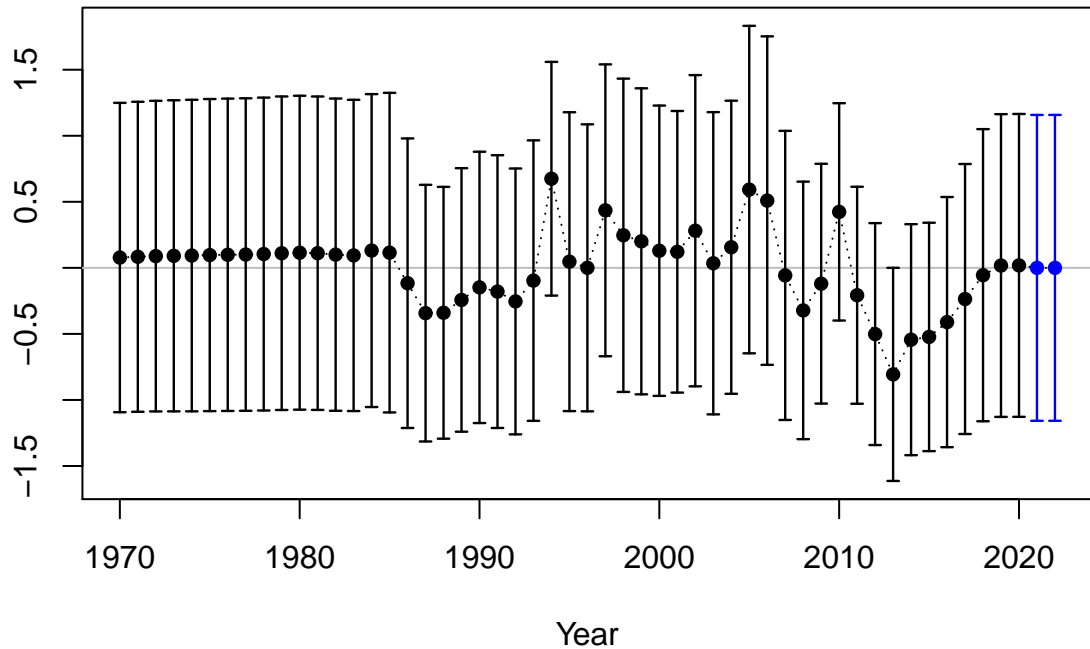




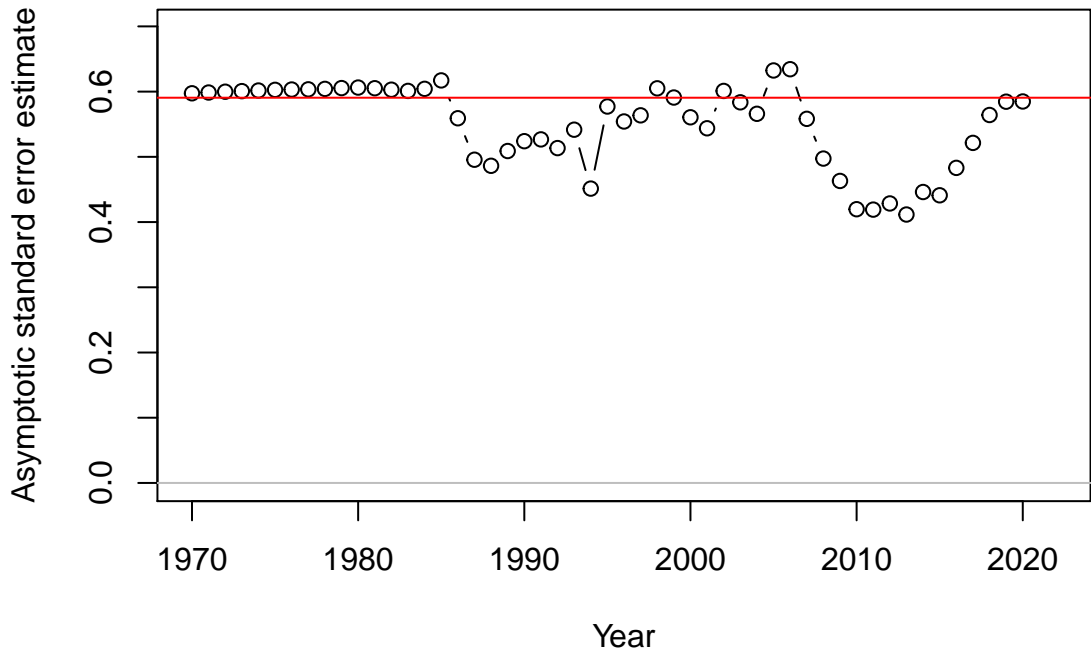
Log recruitment deviation

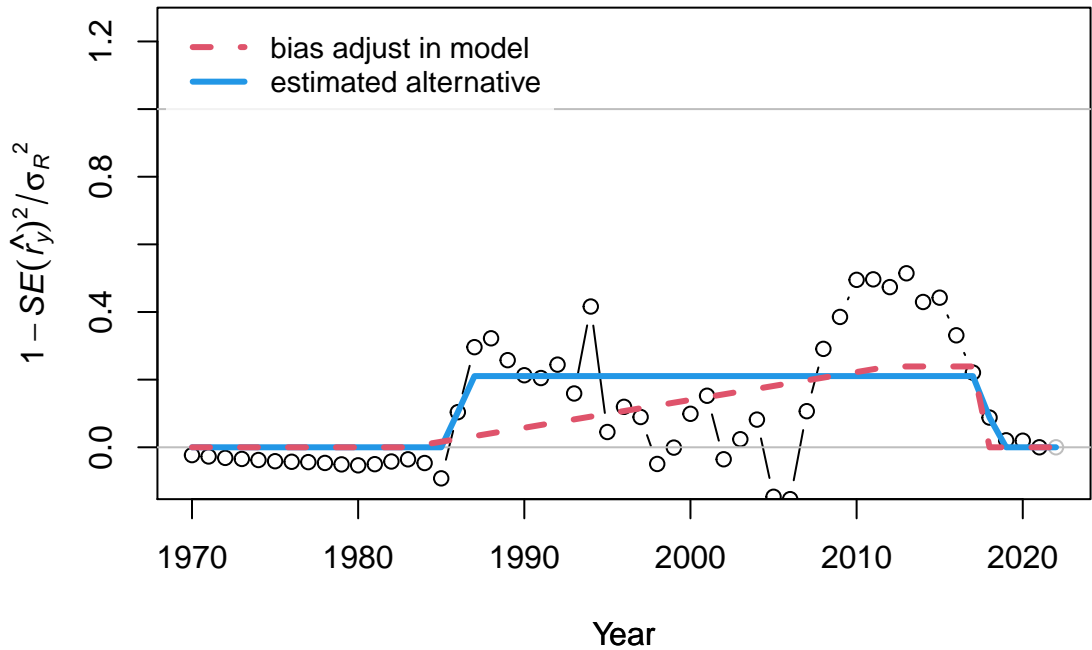


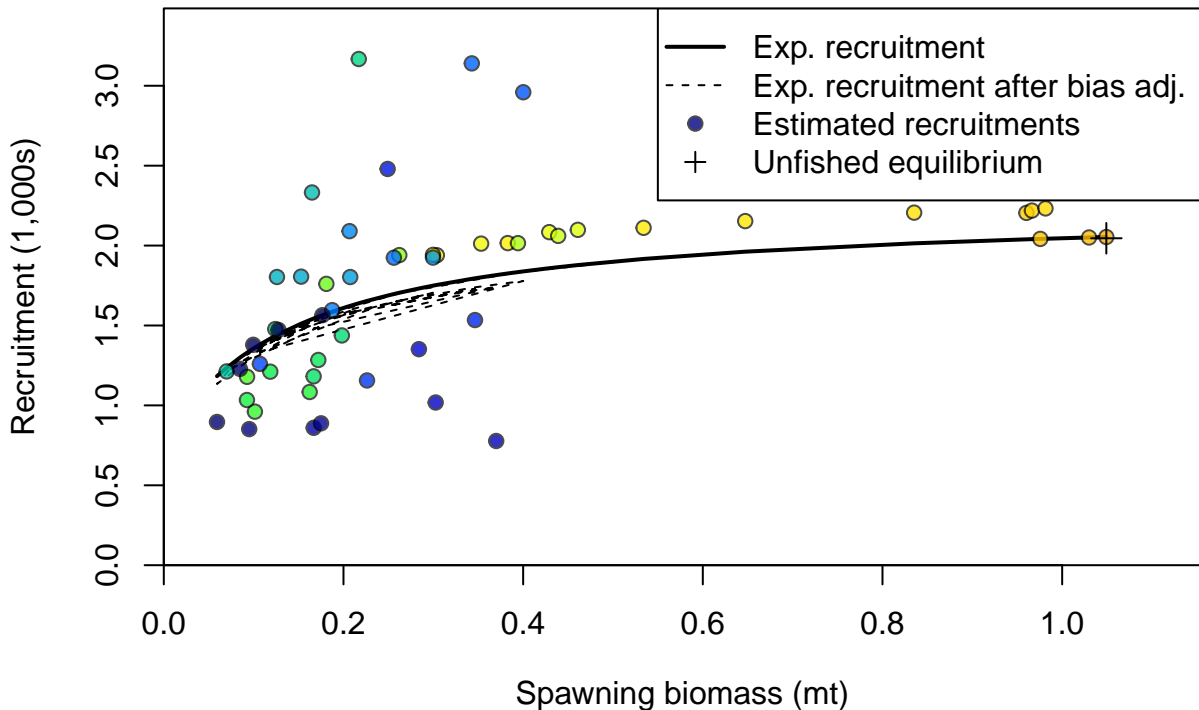
Log recruitment deviation

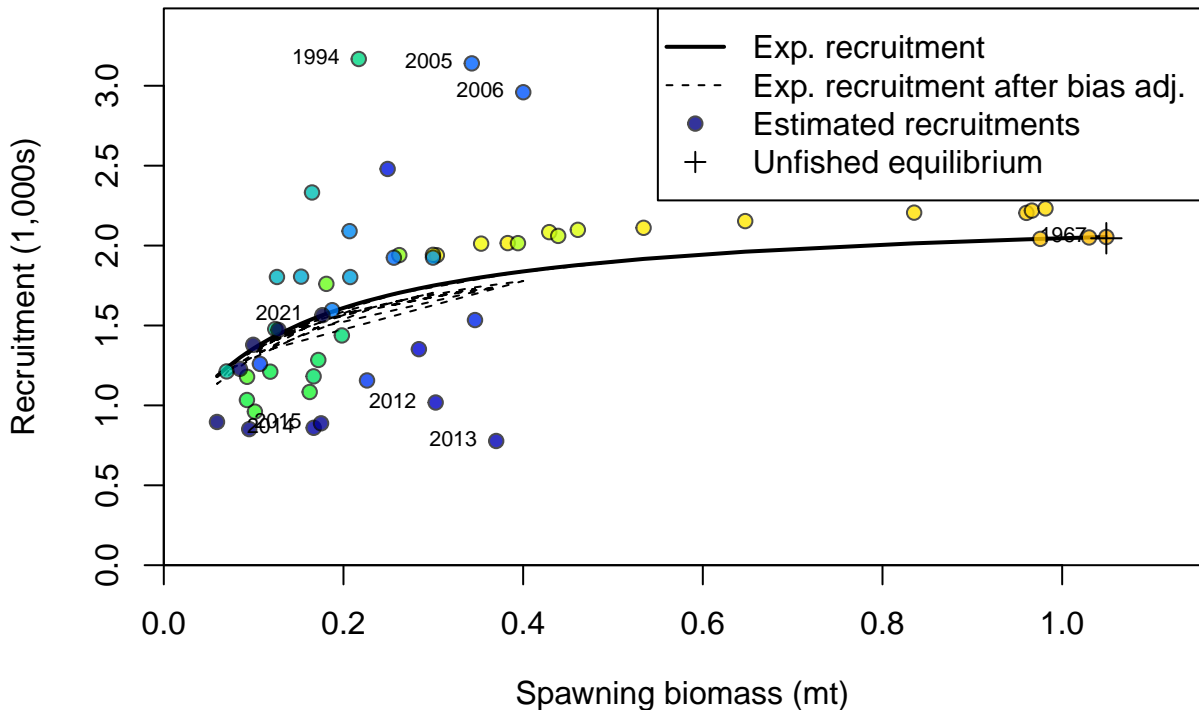


Recruitment deviation variance









Log recruitment deviation

0.5
0.0
-0.5

0.0

0.2

0.4

0.6

0.8

1.0

Spawning output (relative to B_0)

1994

2005

2006

2021

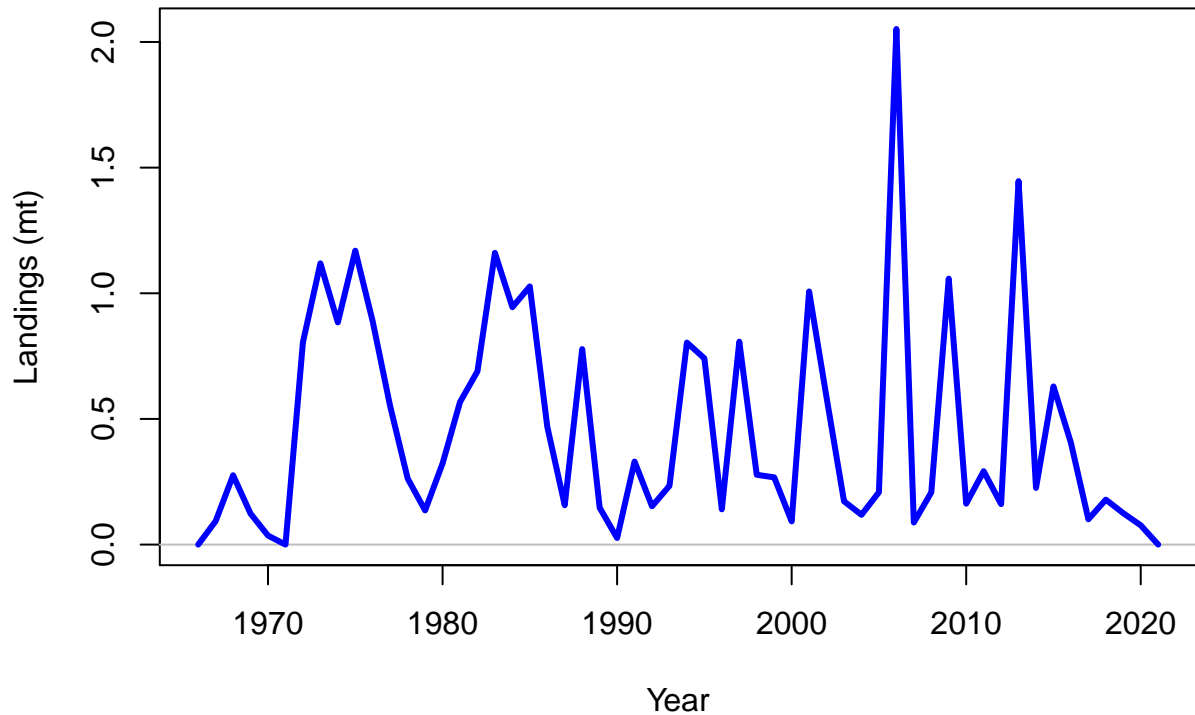
2015

2014

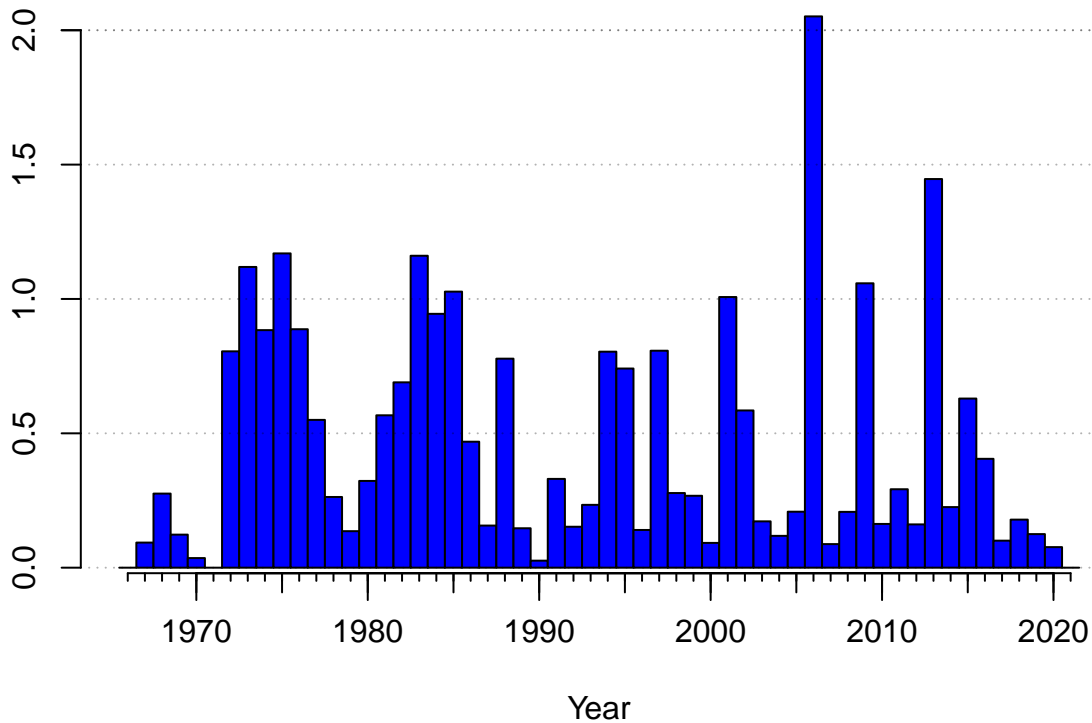
2012

2013

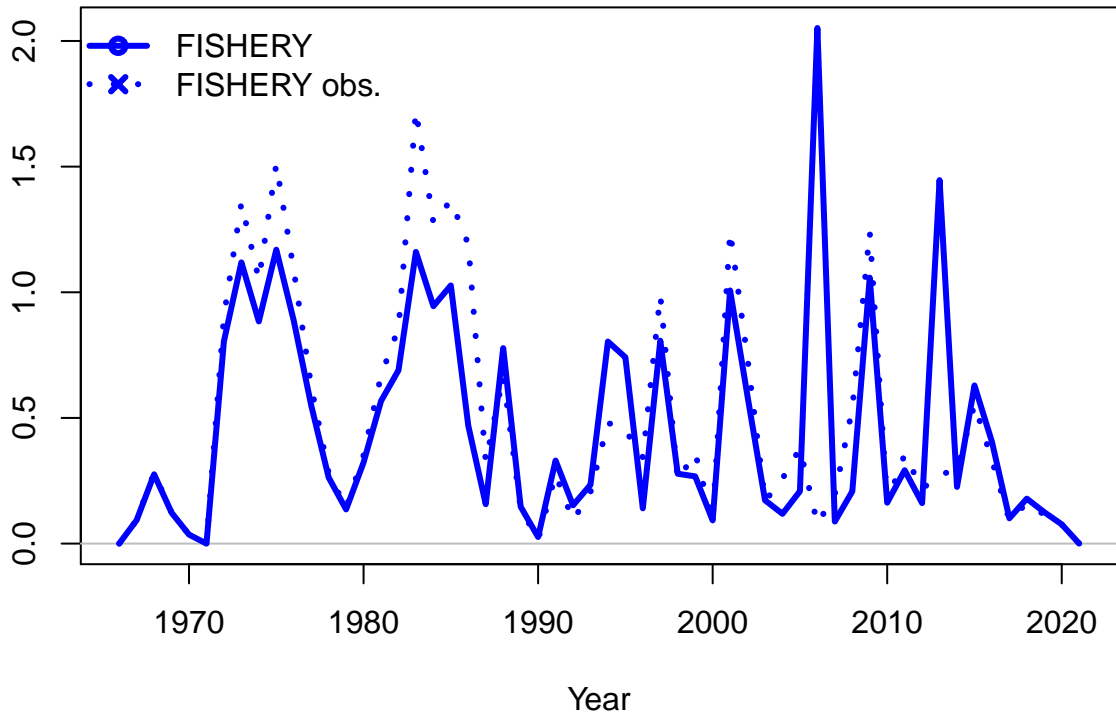


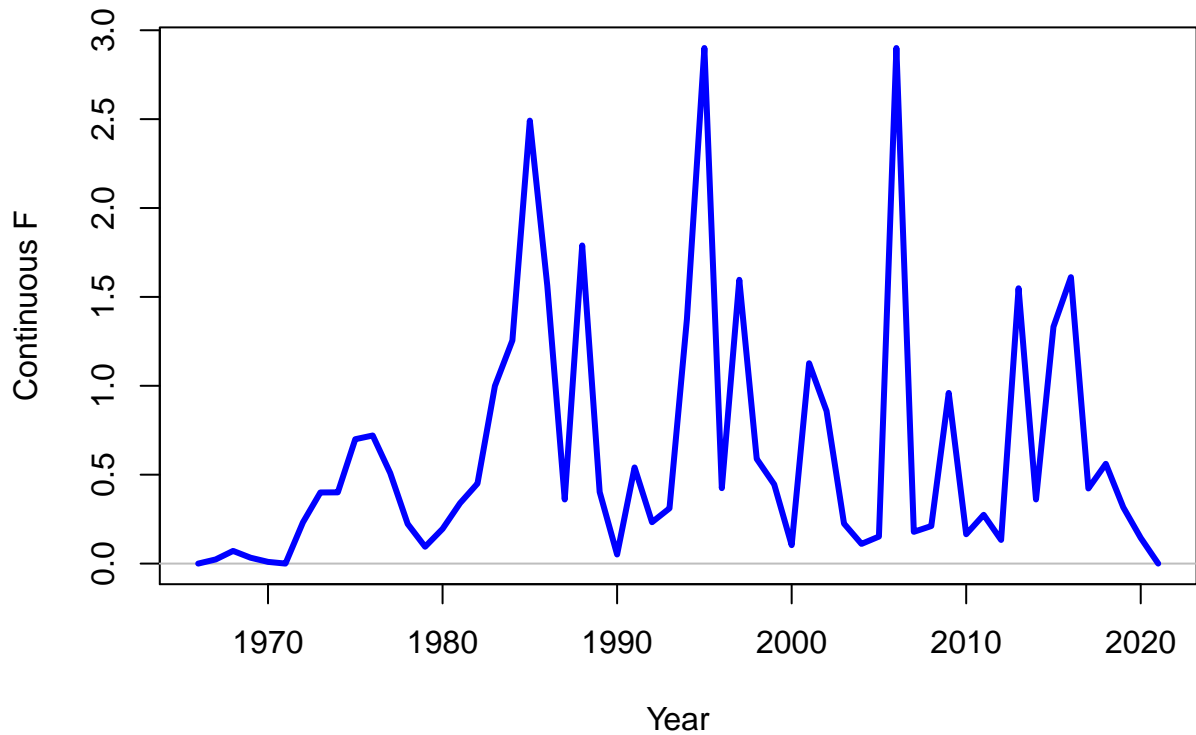


Landings (mt)

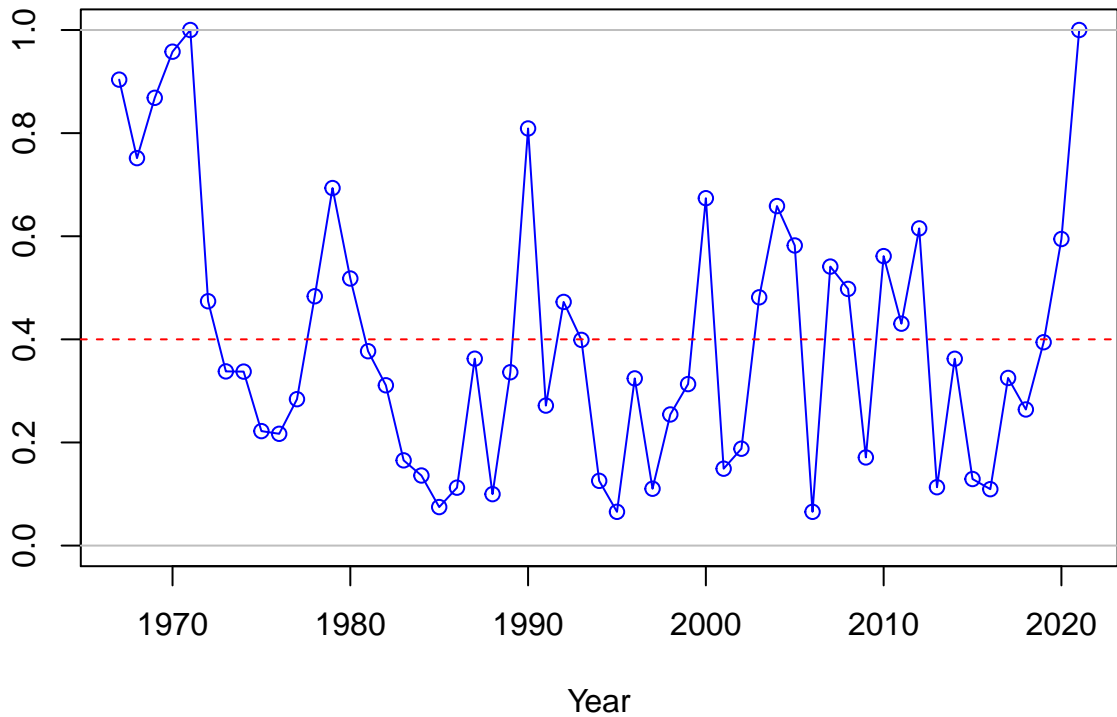


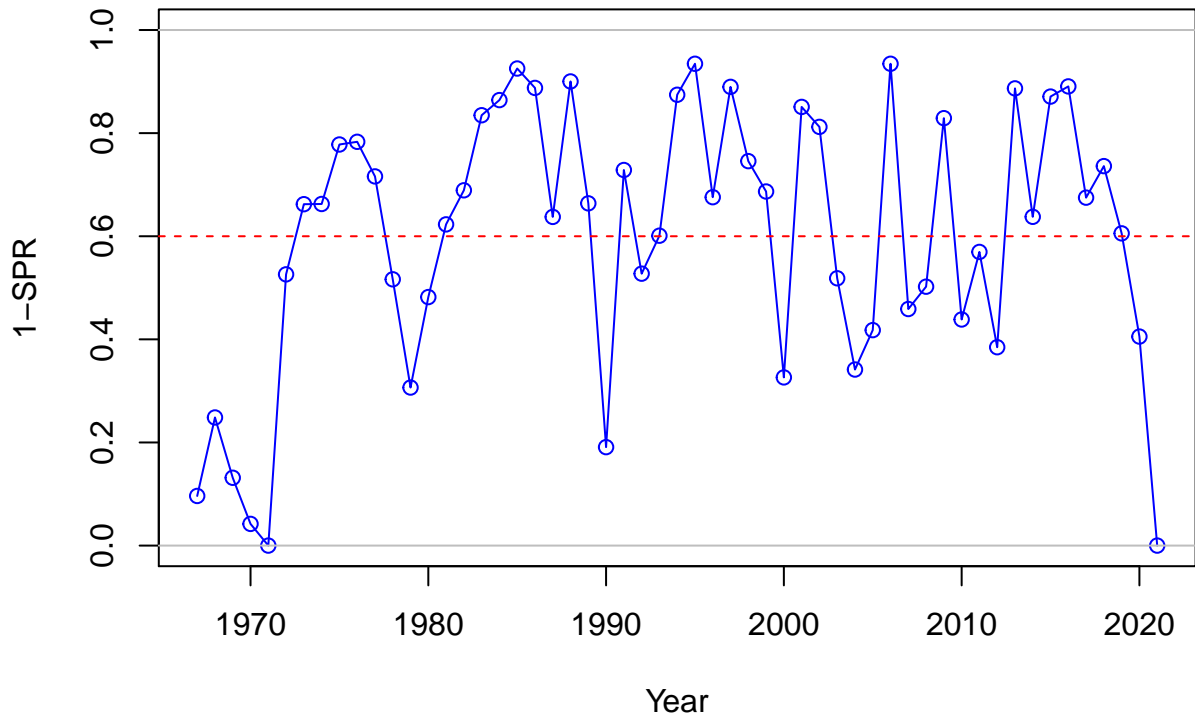
Observed and expected Landings (mt)



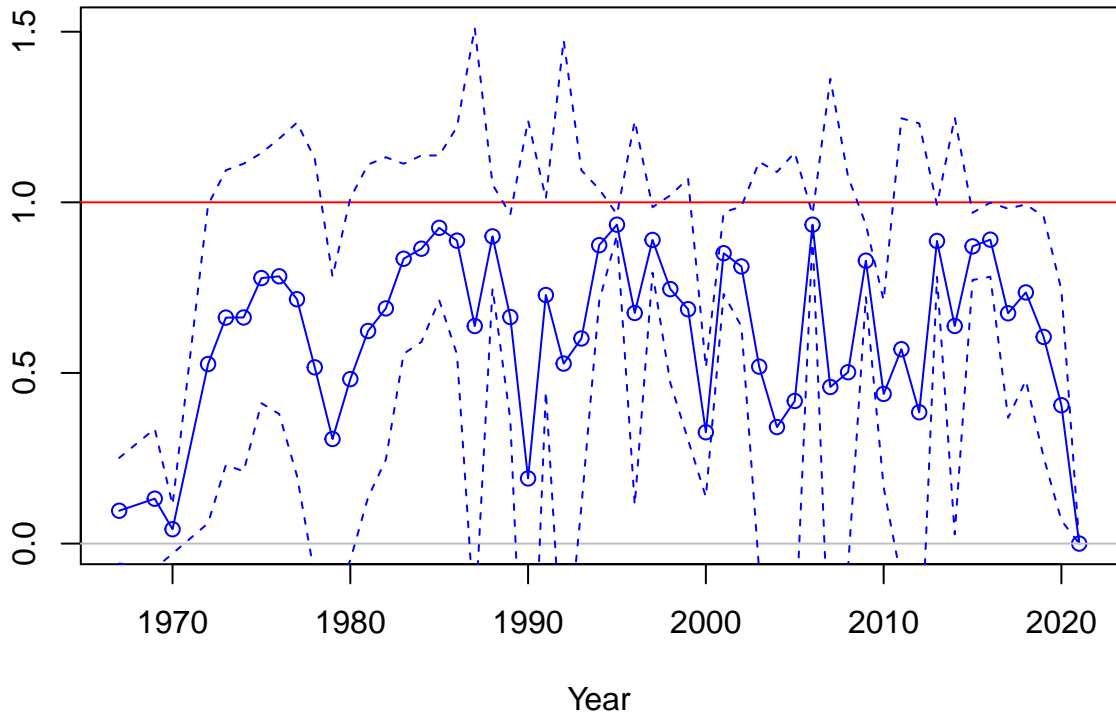


SPR

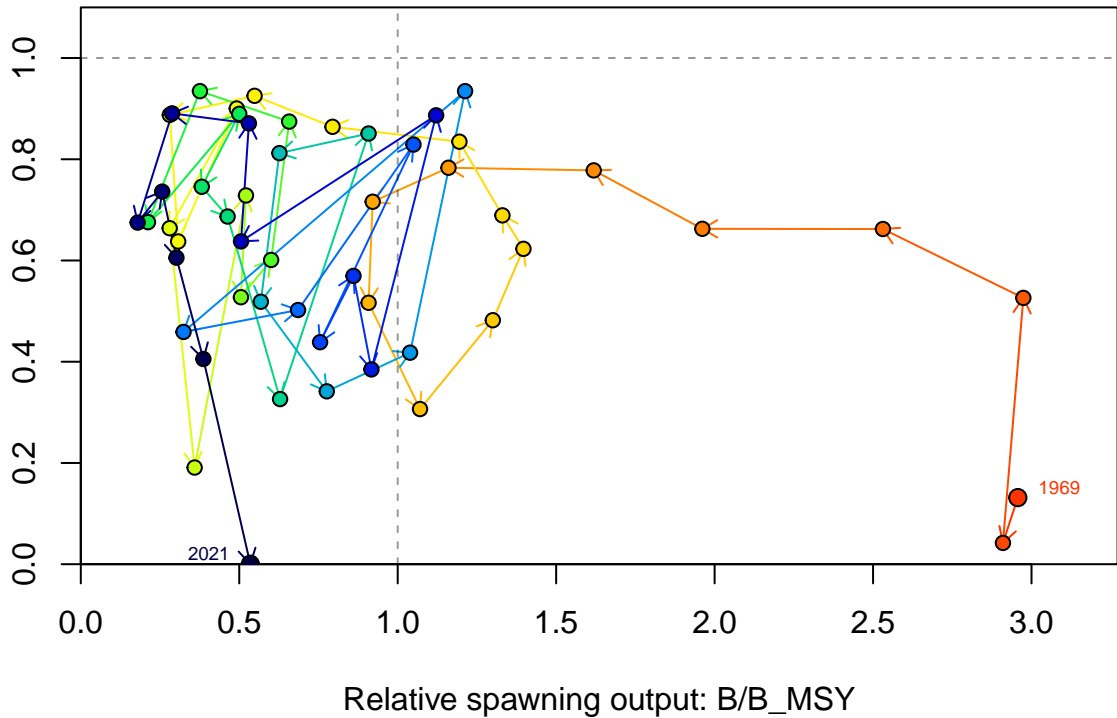


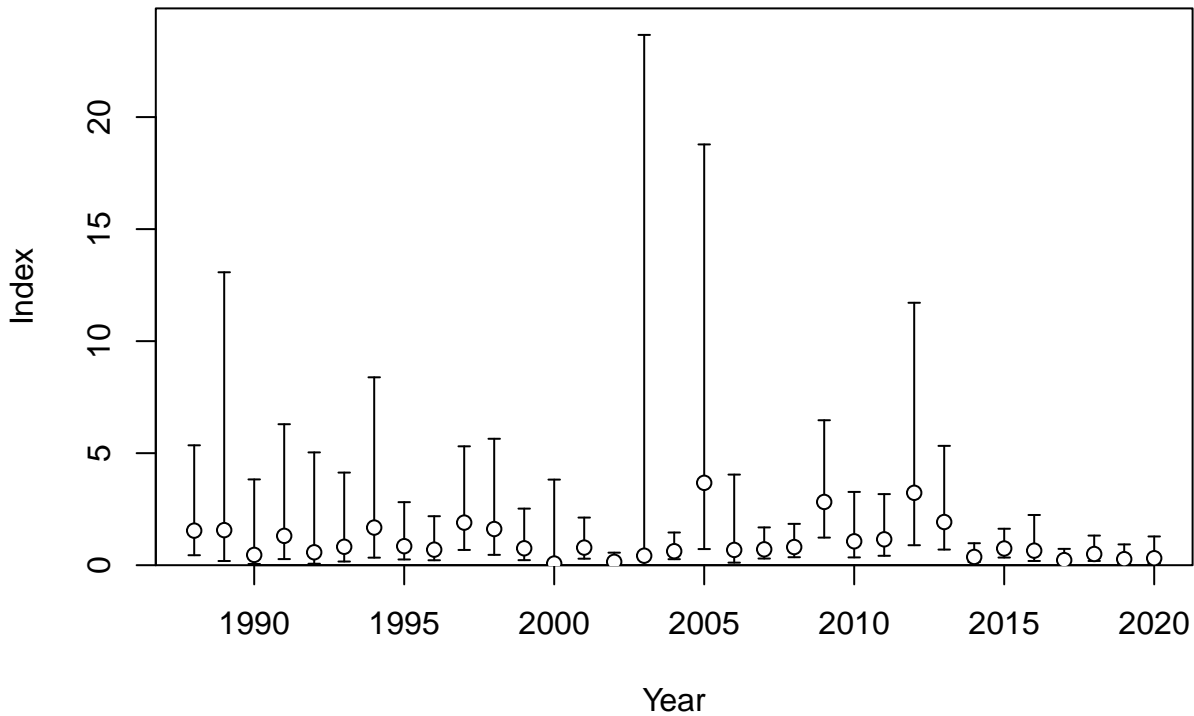


Fishing intensity: 1-SPR

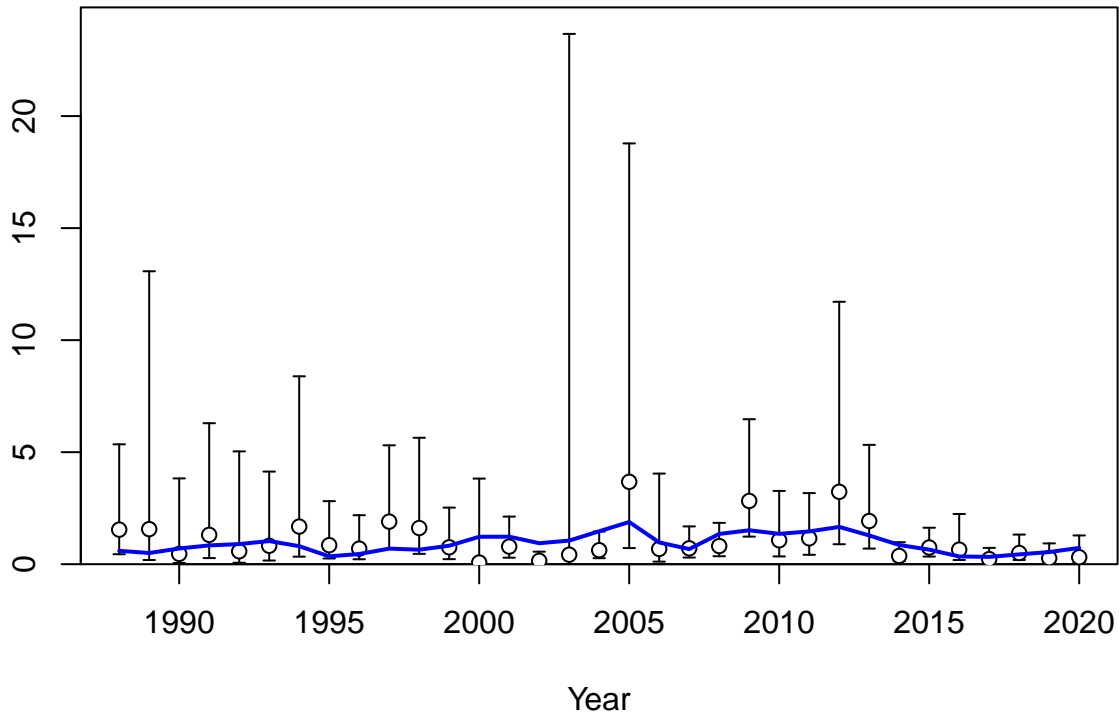


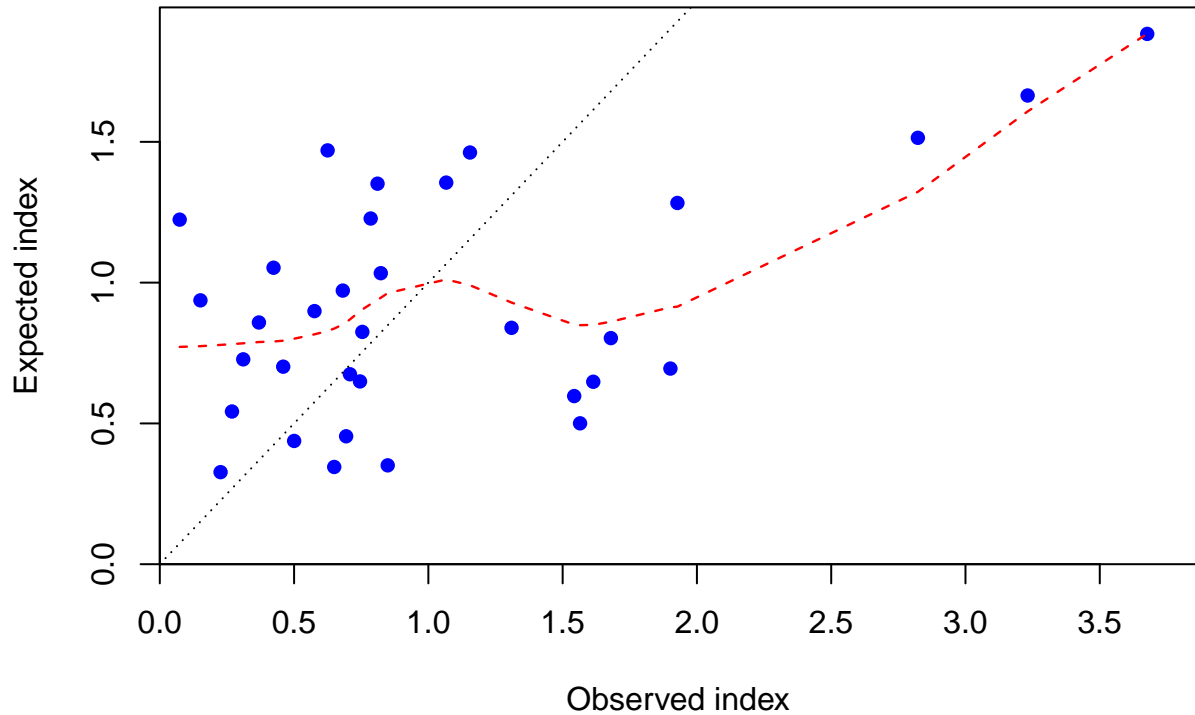
Fishing intensity: 1-SPR

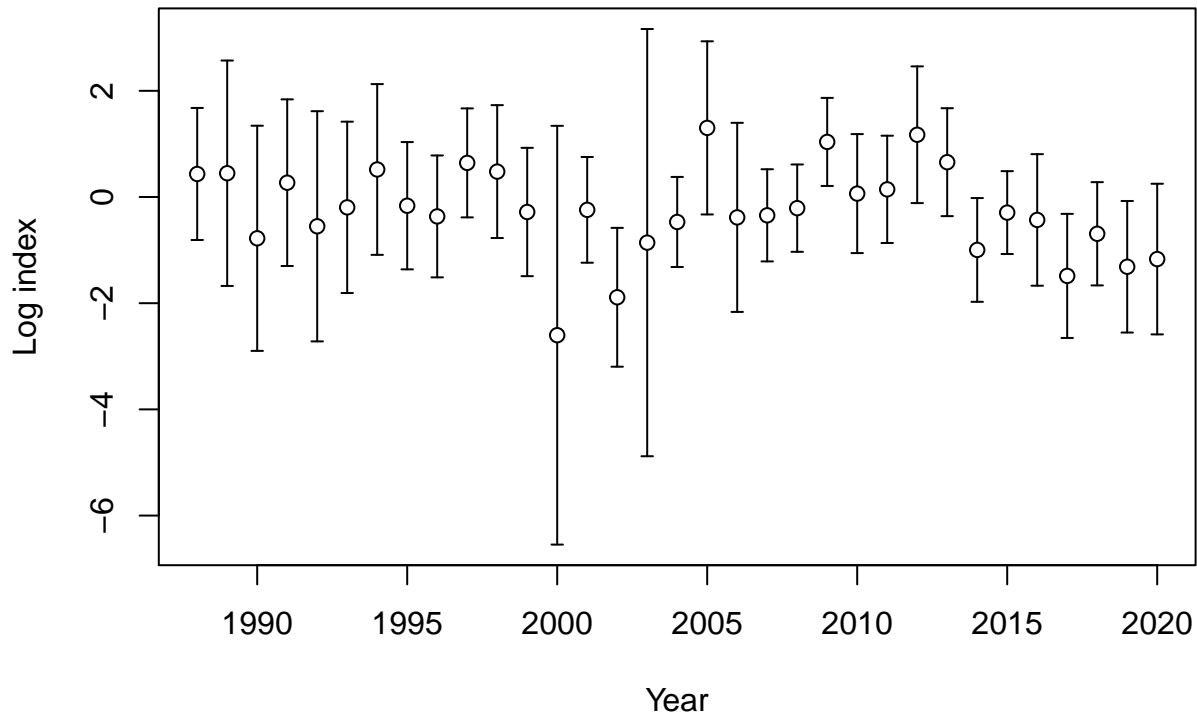


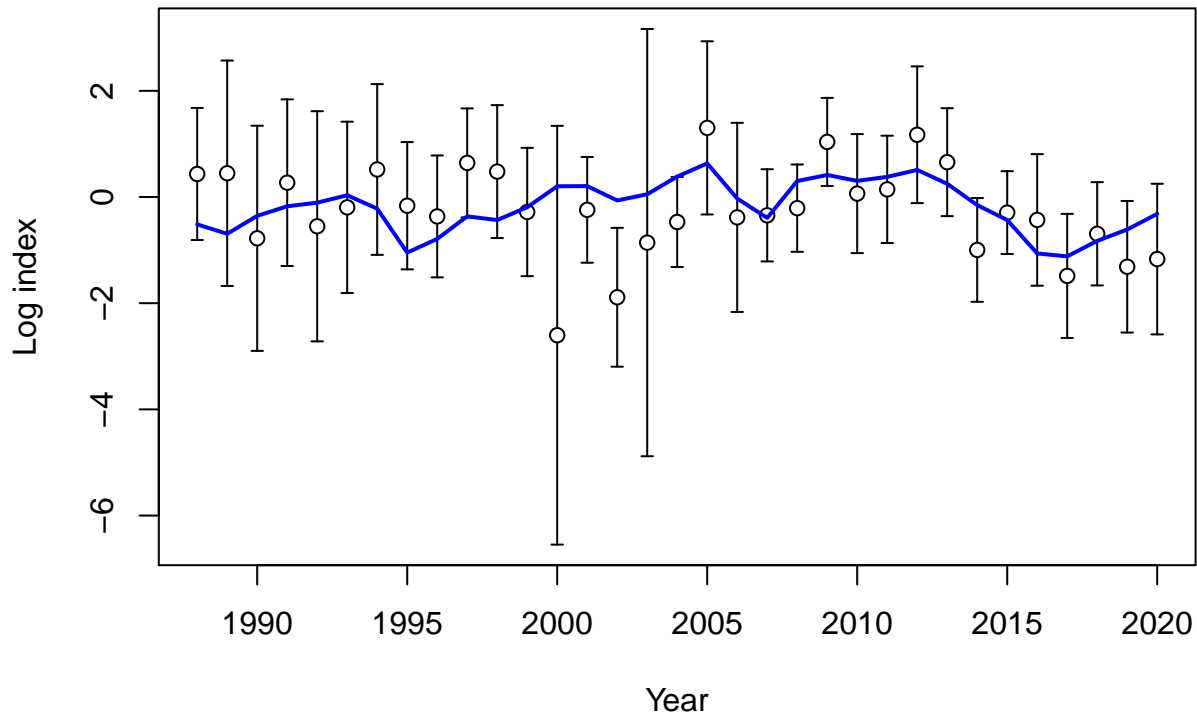


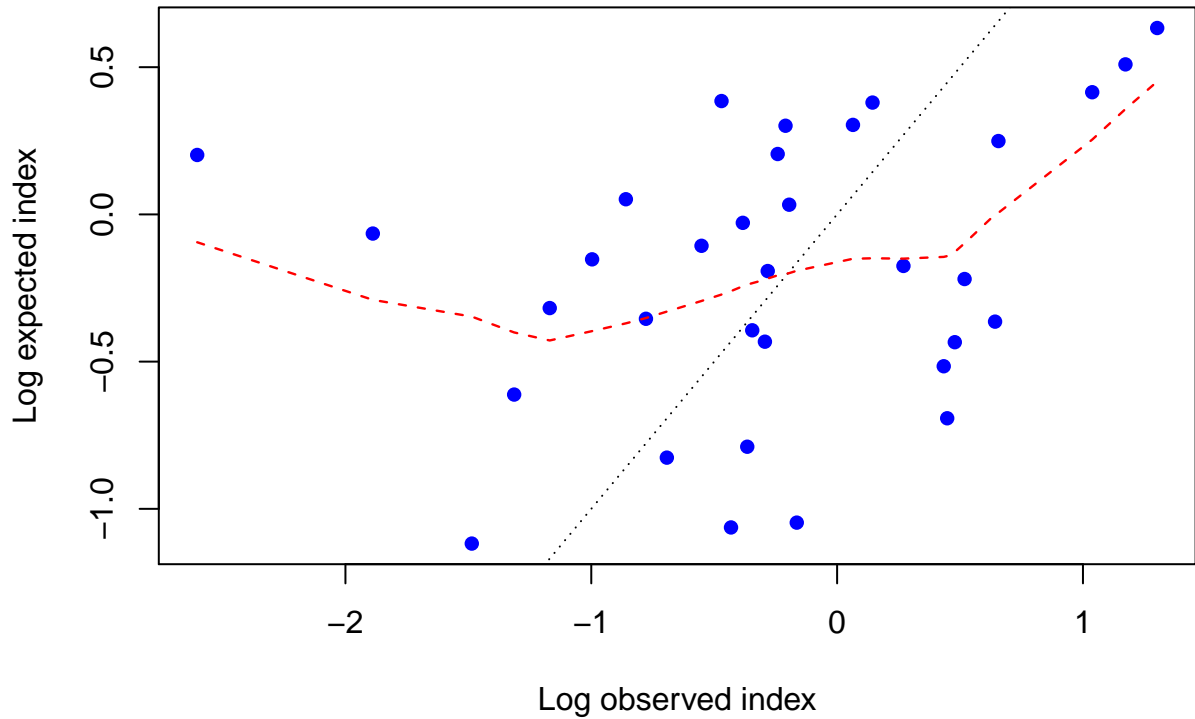
Index

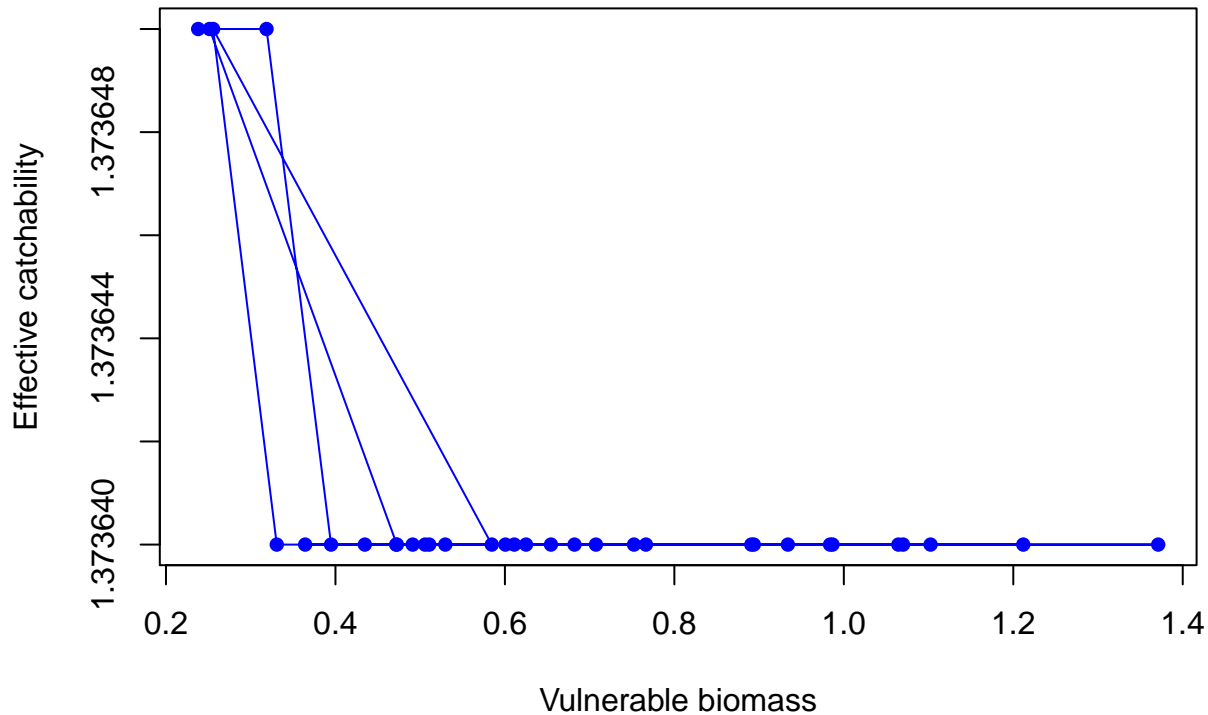


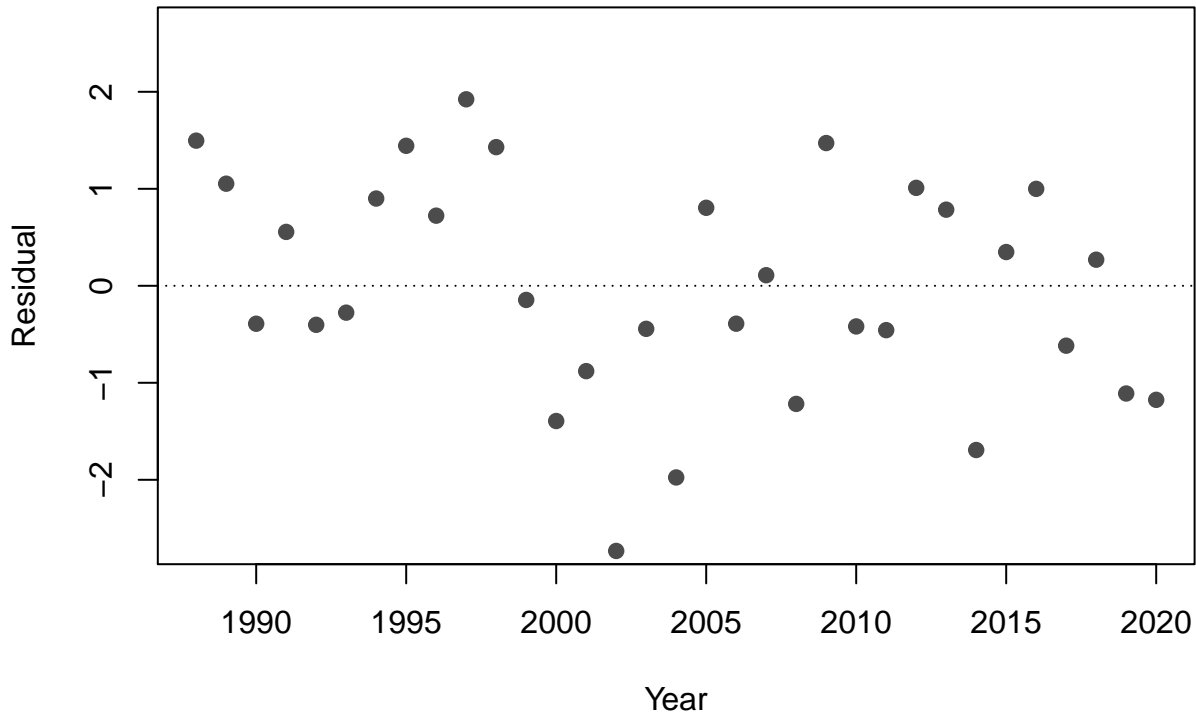


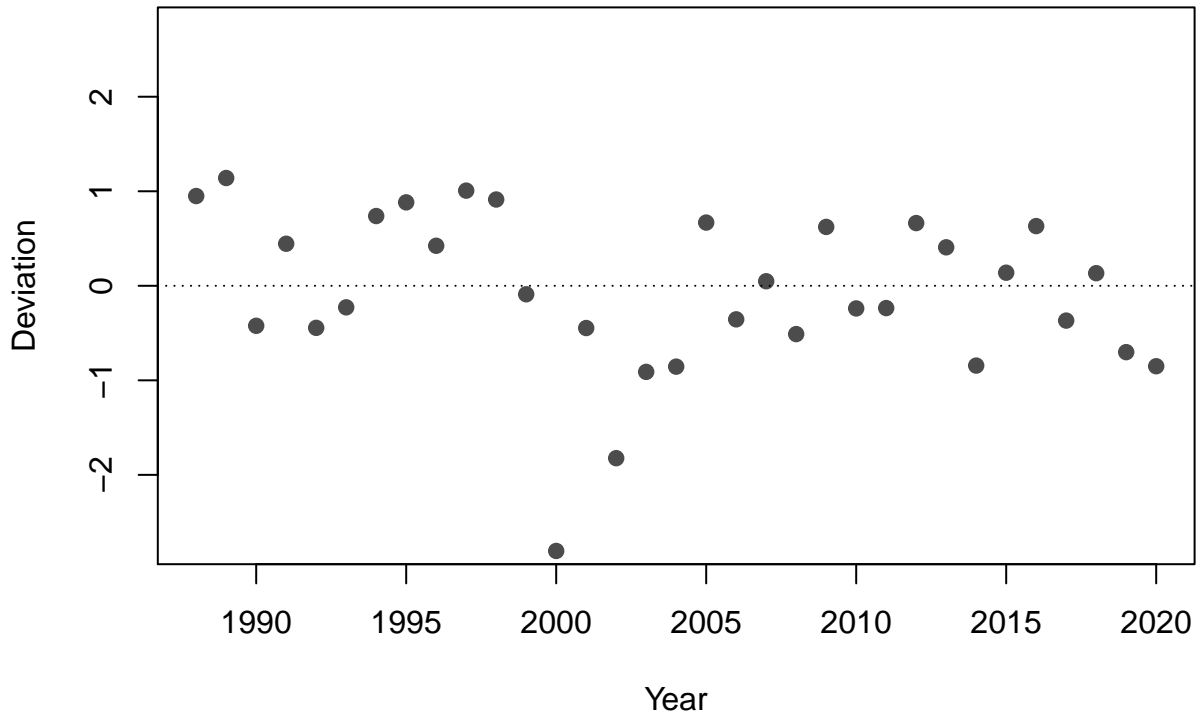


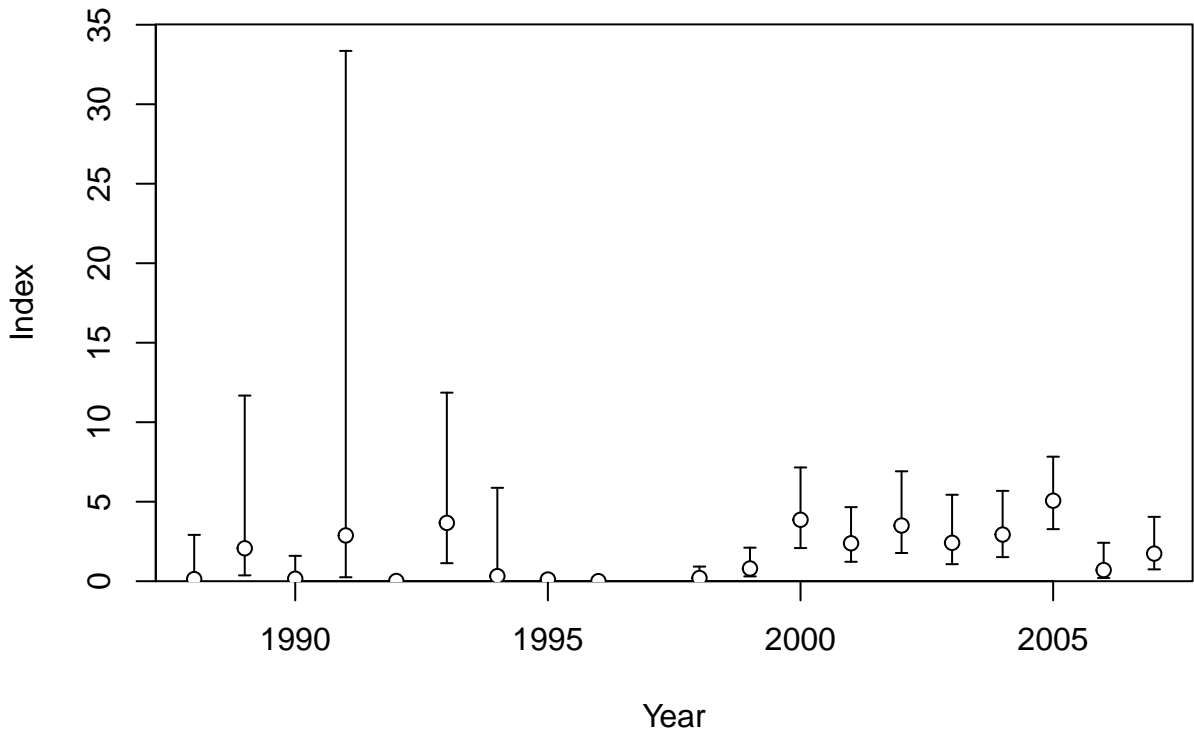


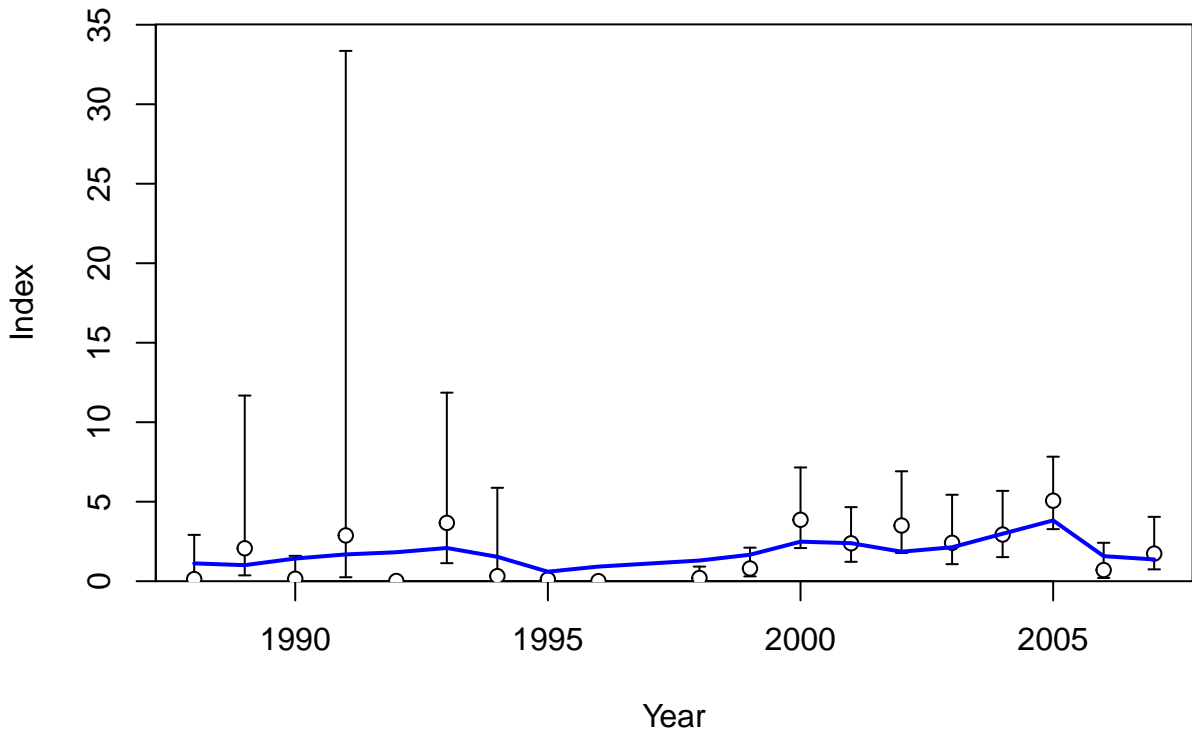


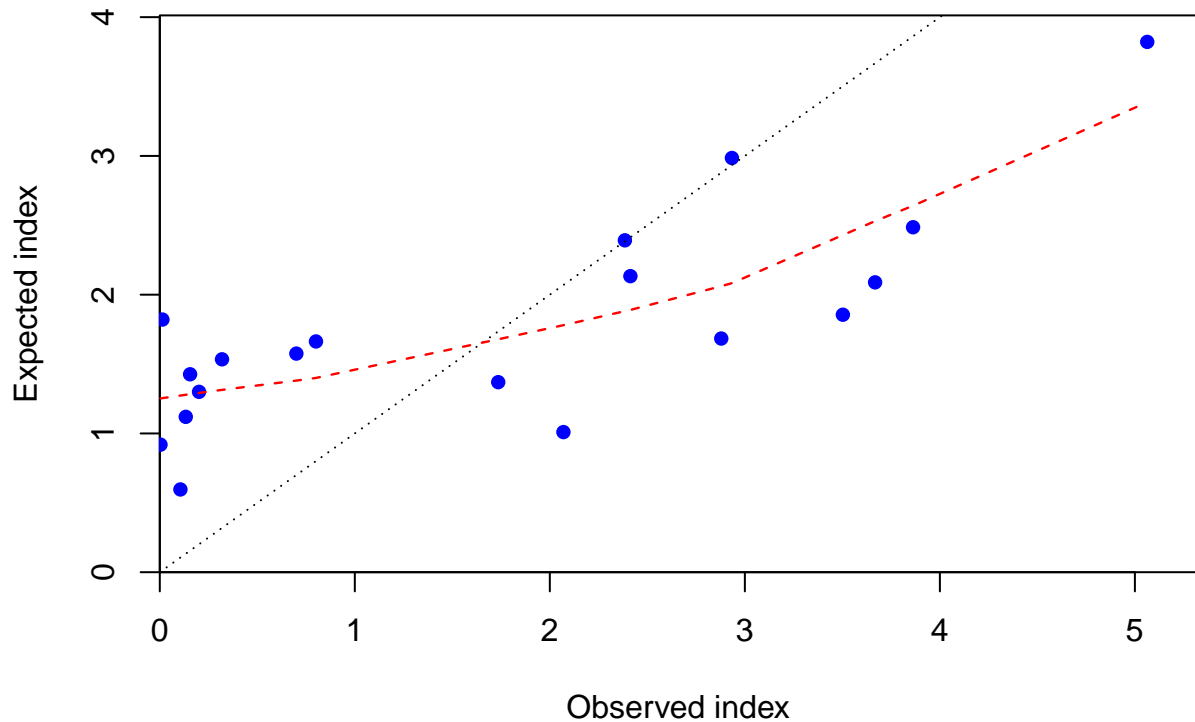


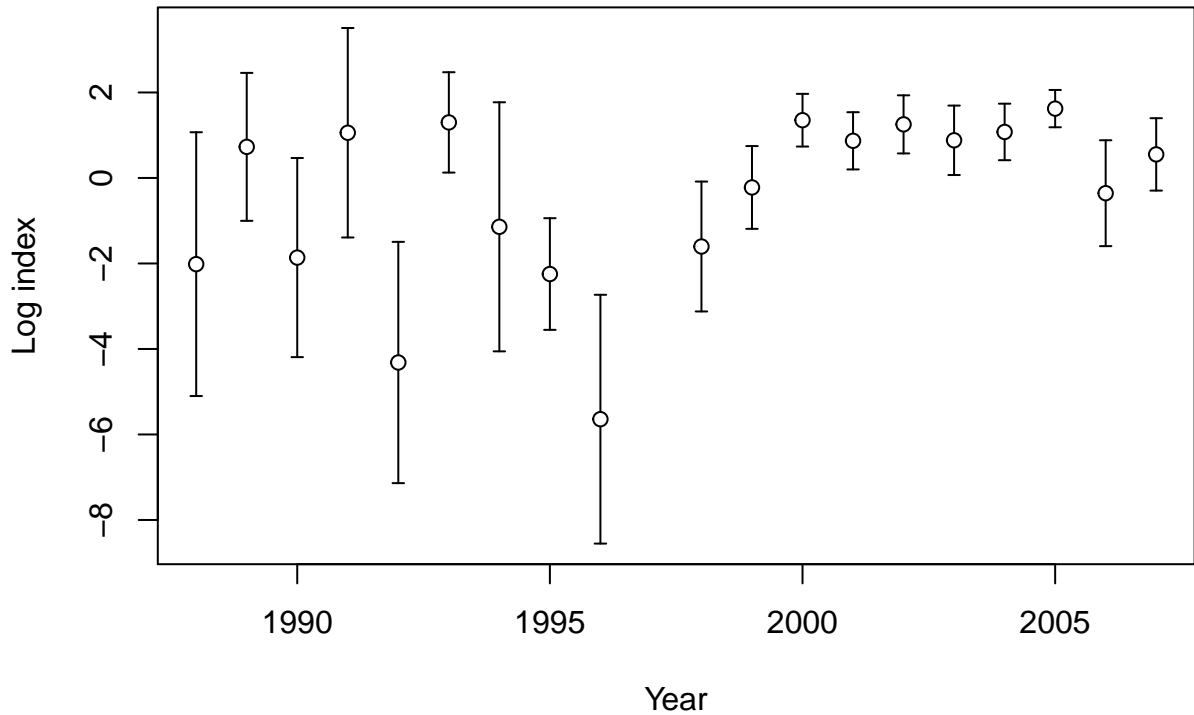


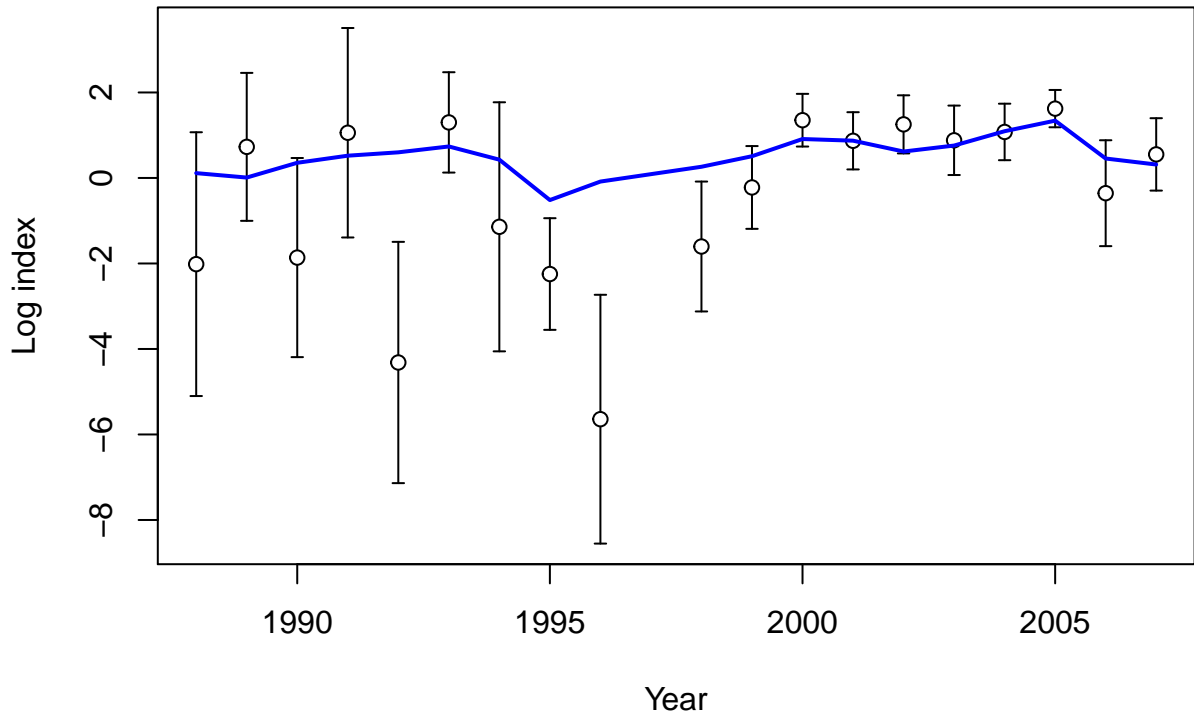


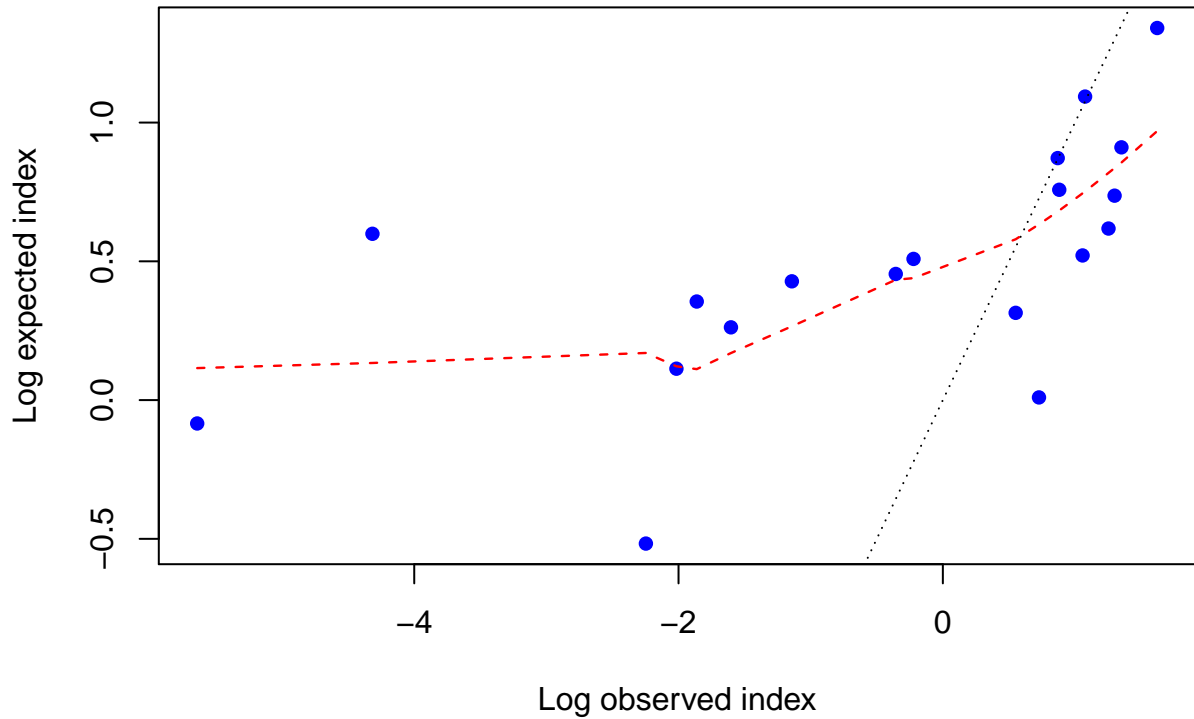












Effective catchability

2.801198
2.801194
2.801190

0.2

0.4

0.6

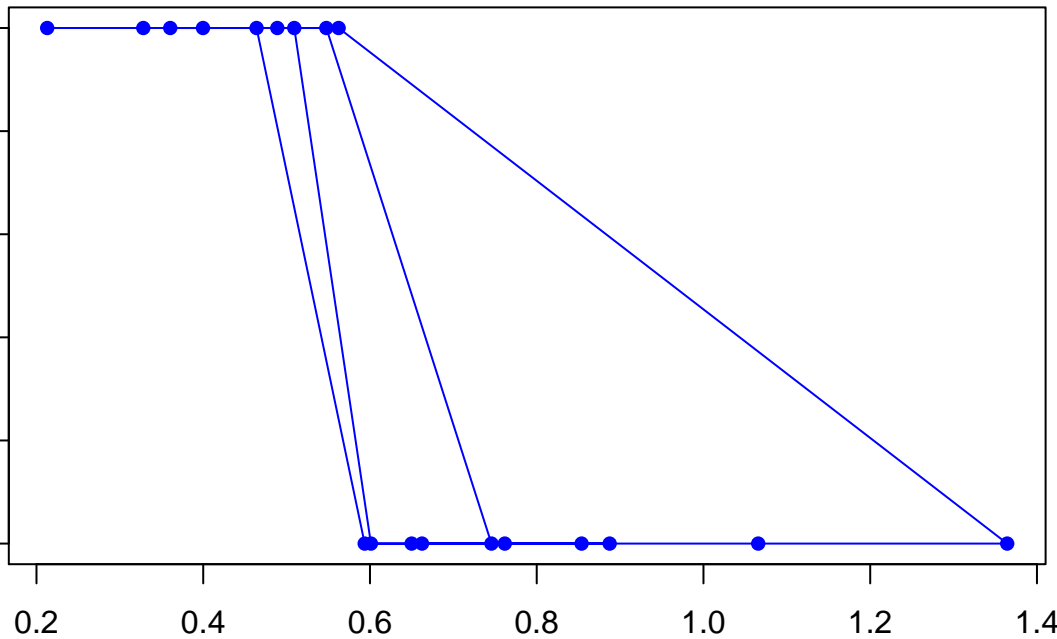
0.8

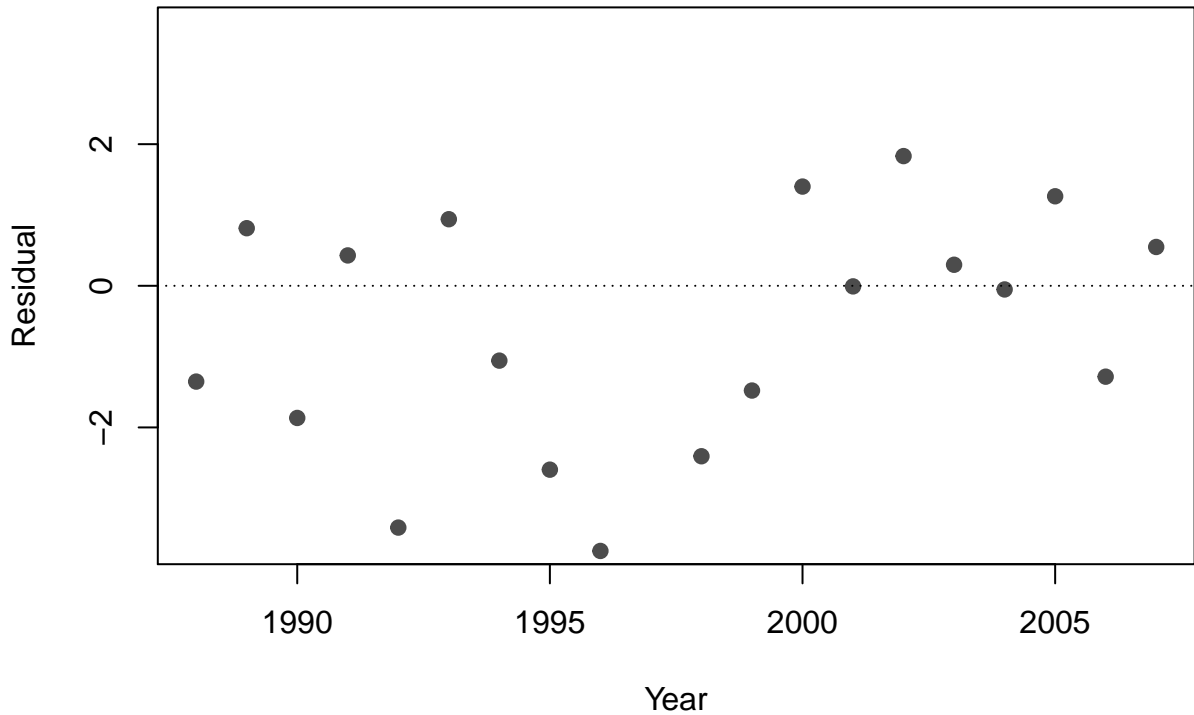
1.0

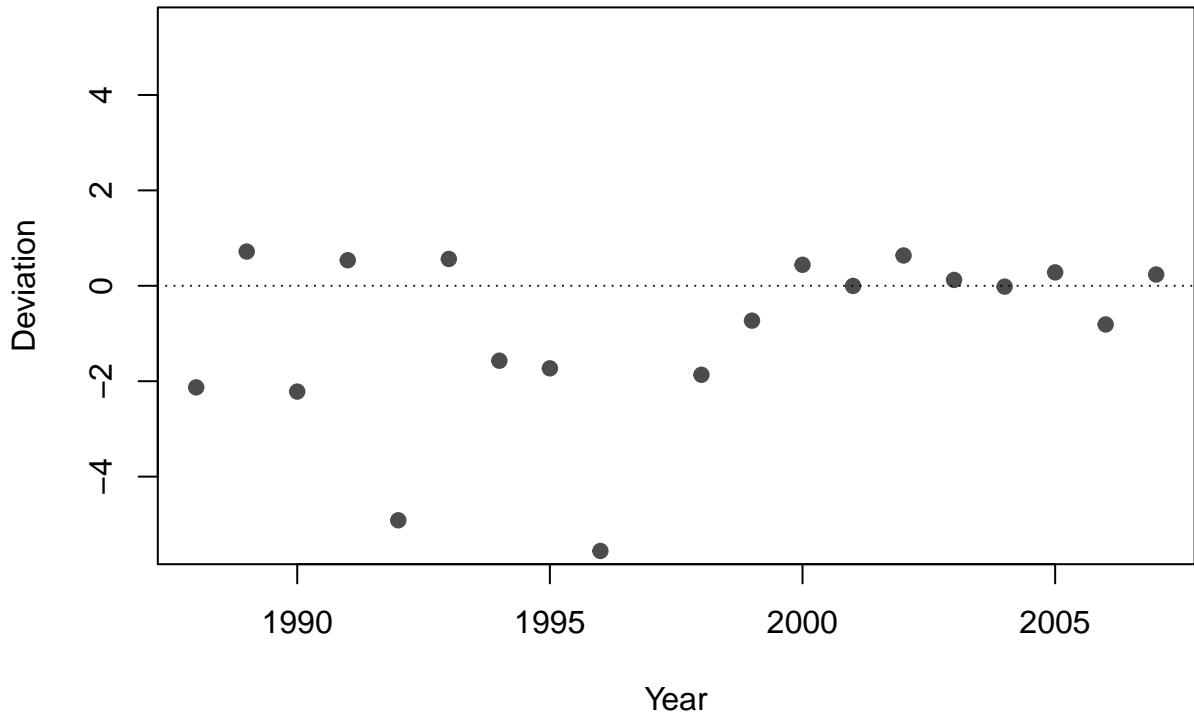
1.2

1.4

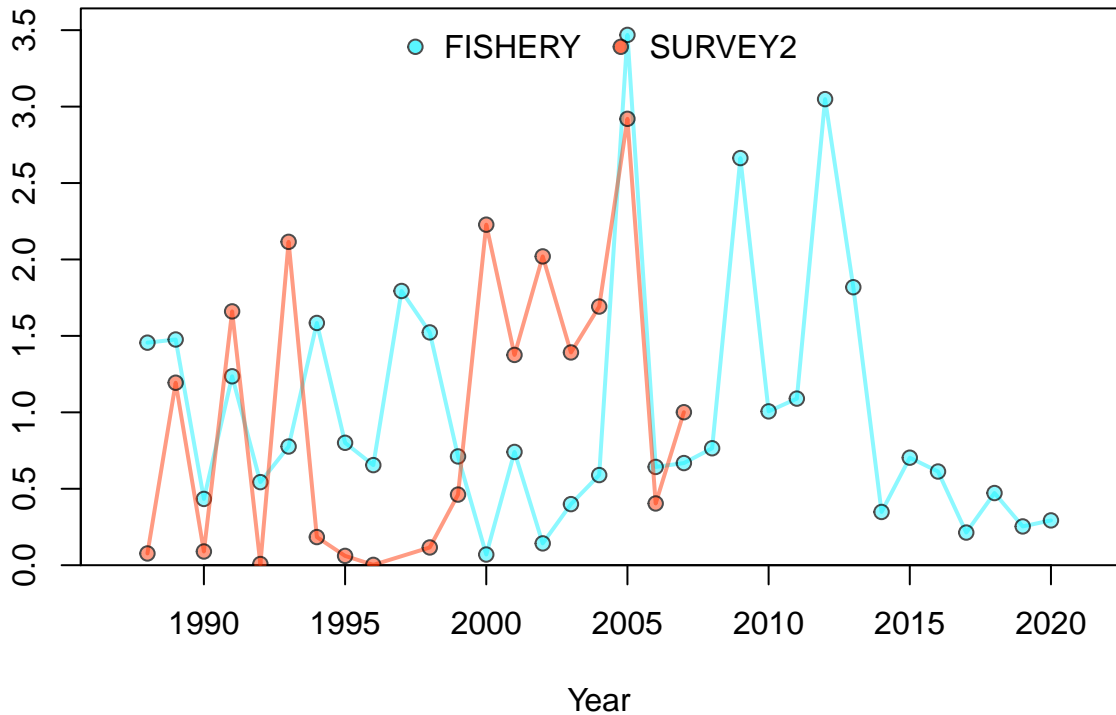
Vulnerable biomass

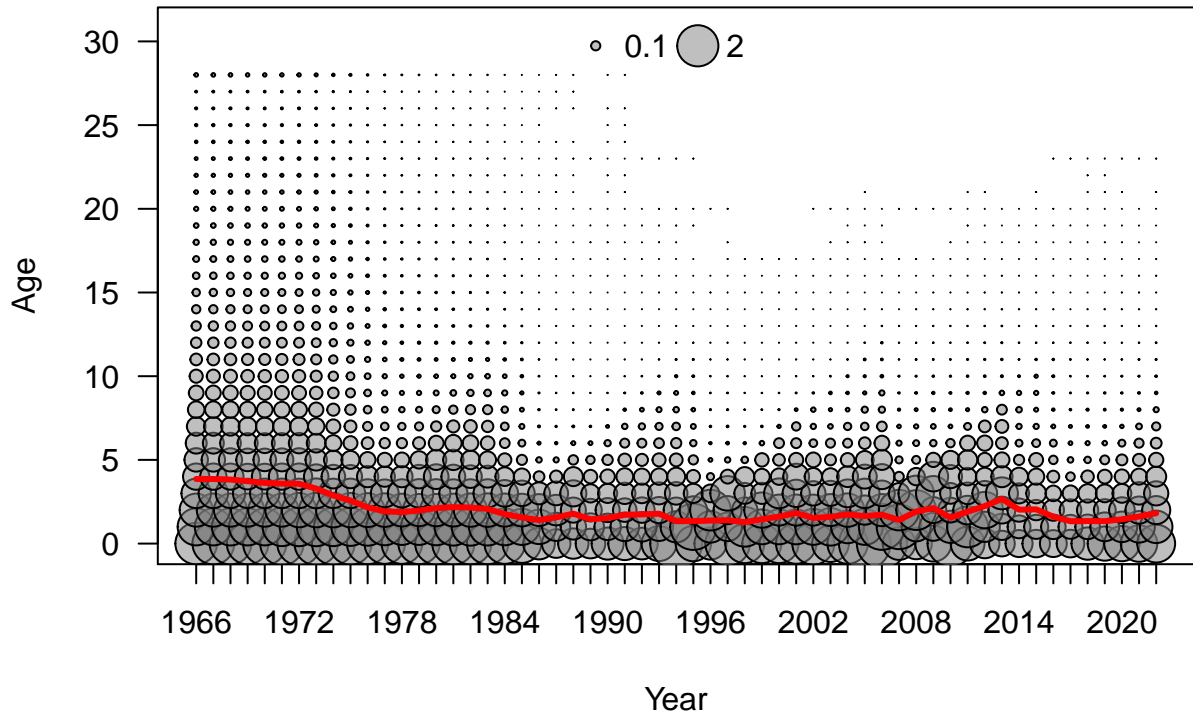


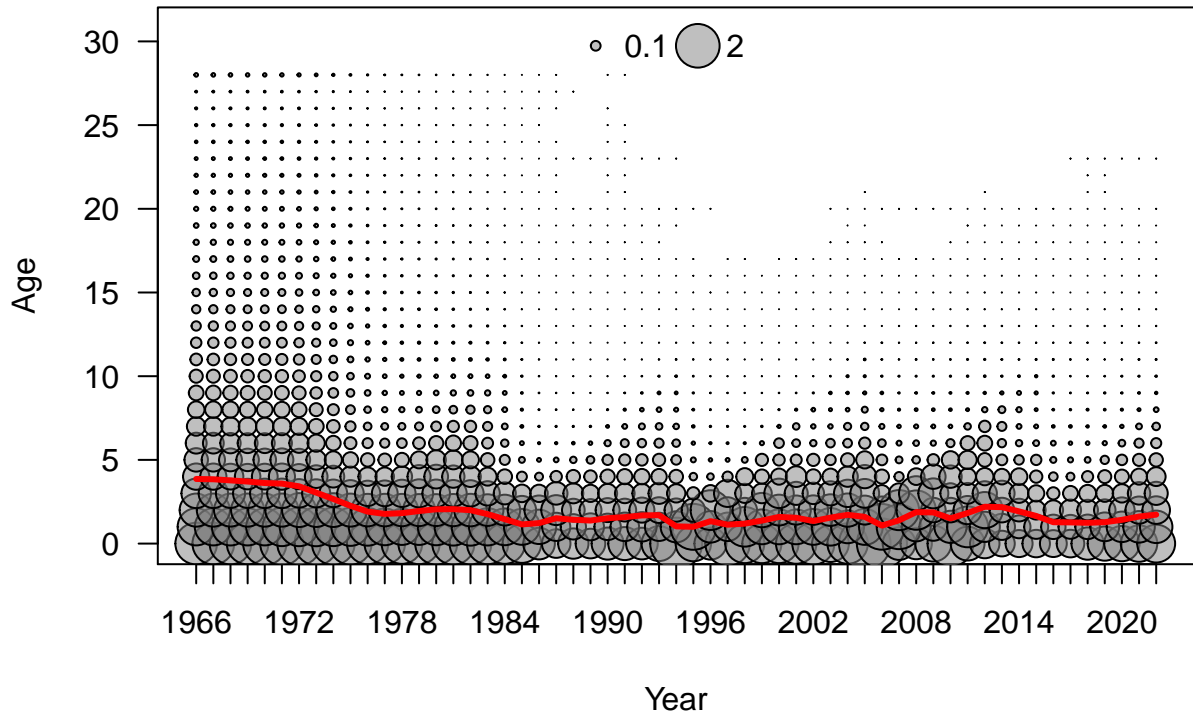


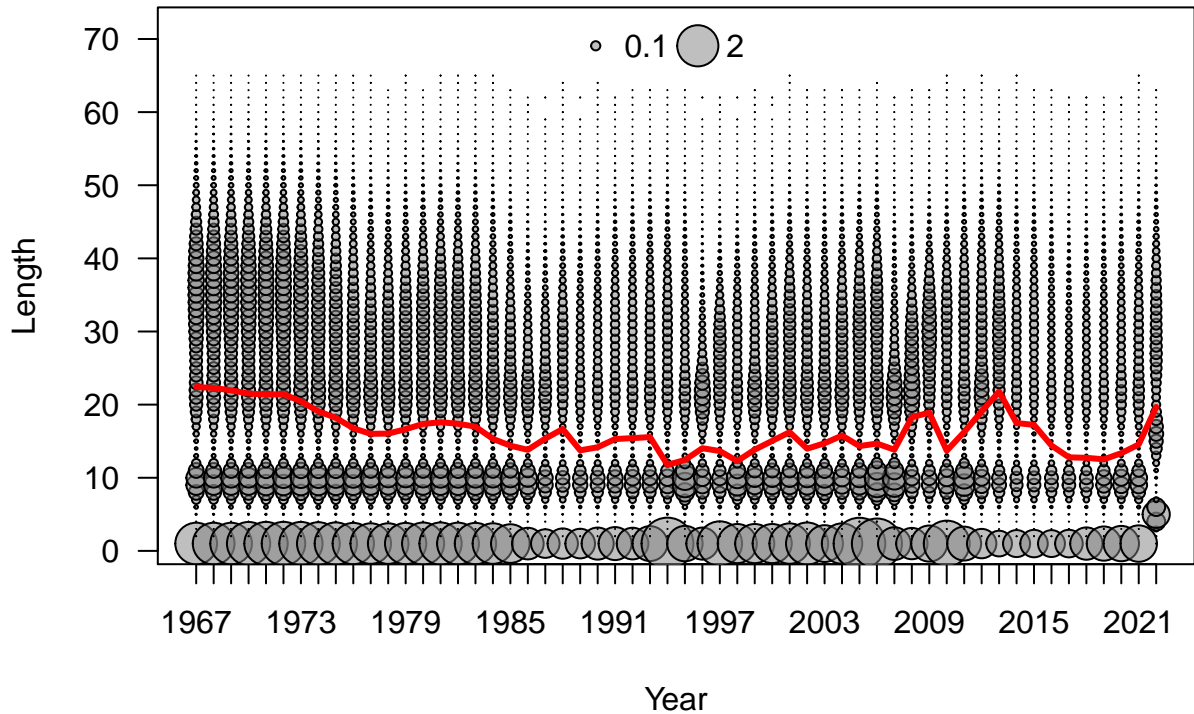


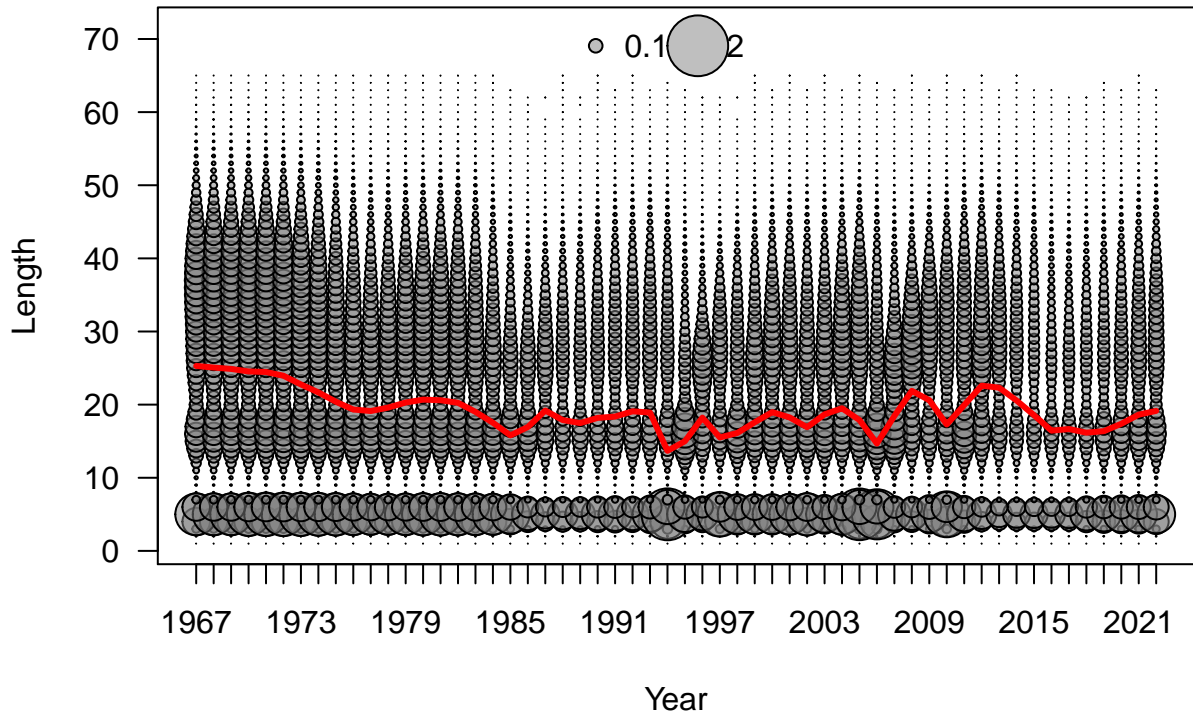
Standardized index

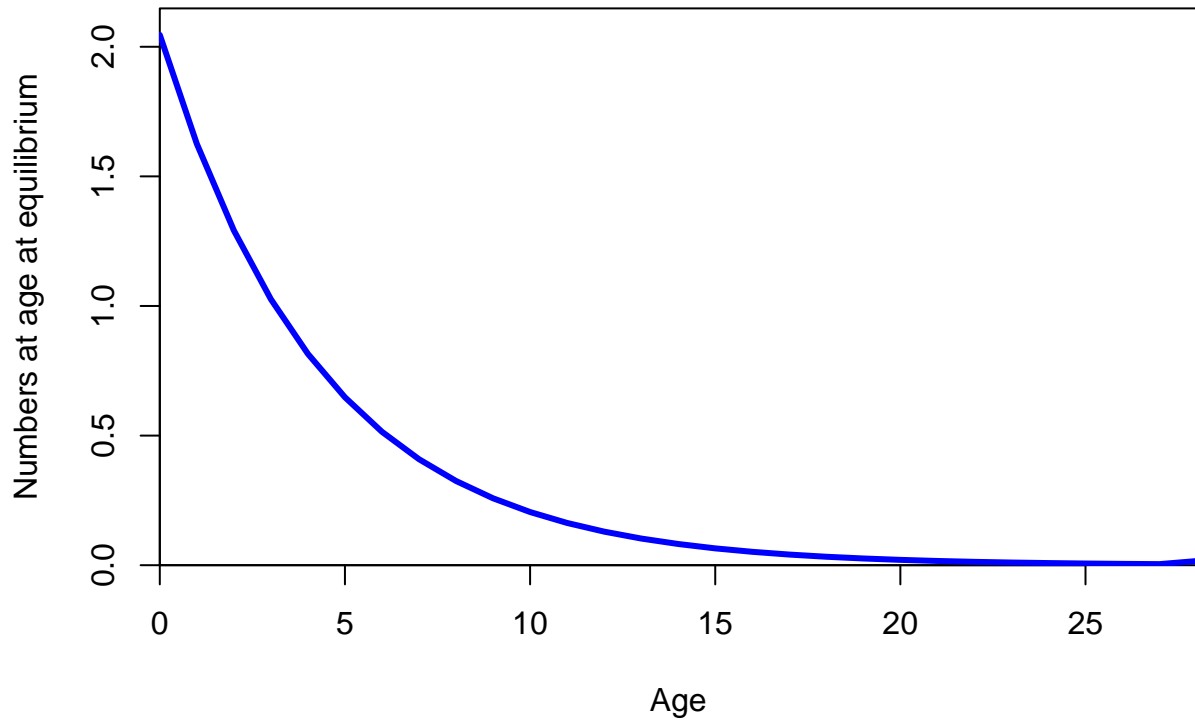


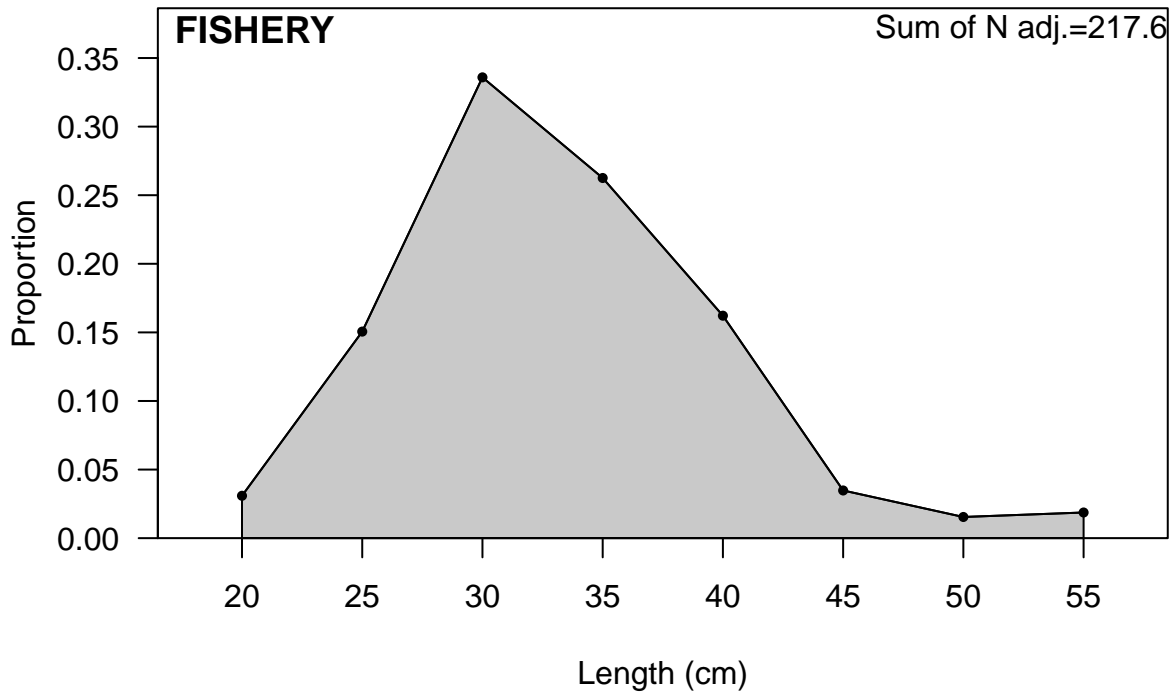


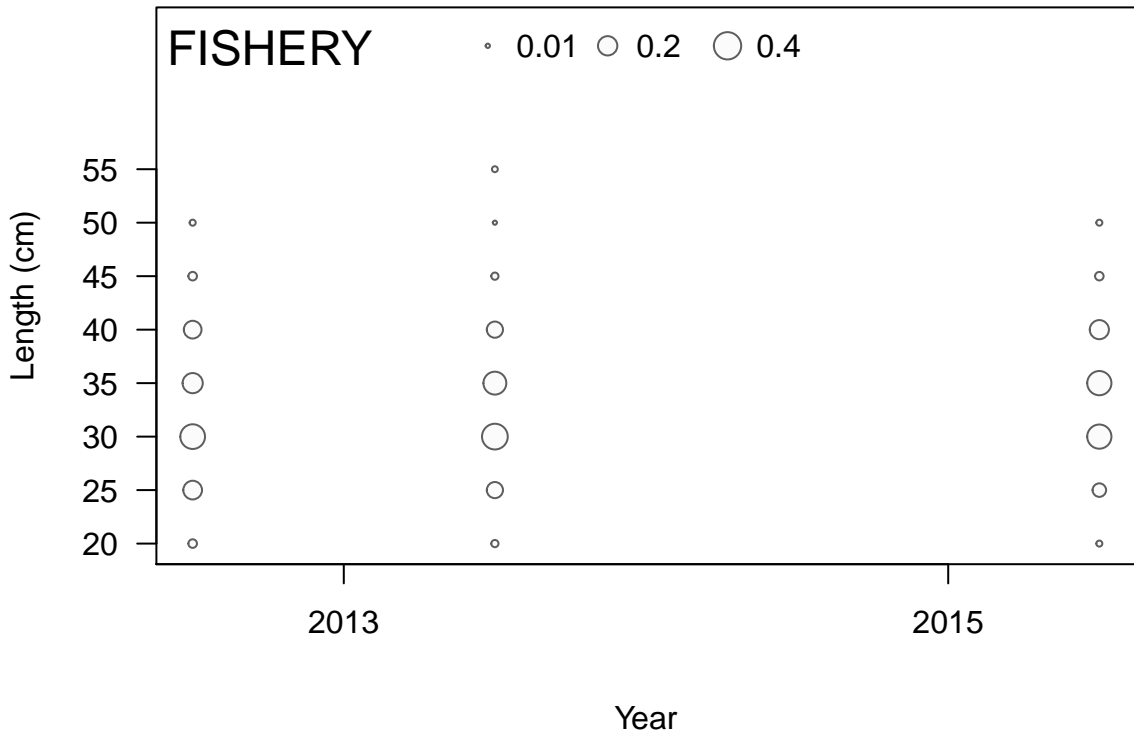


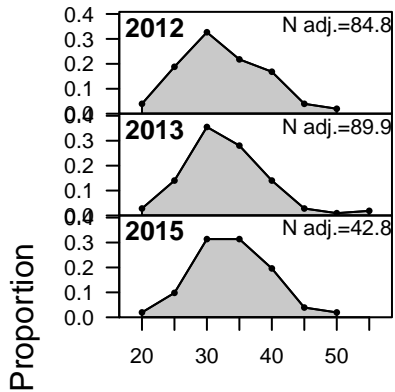




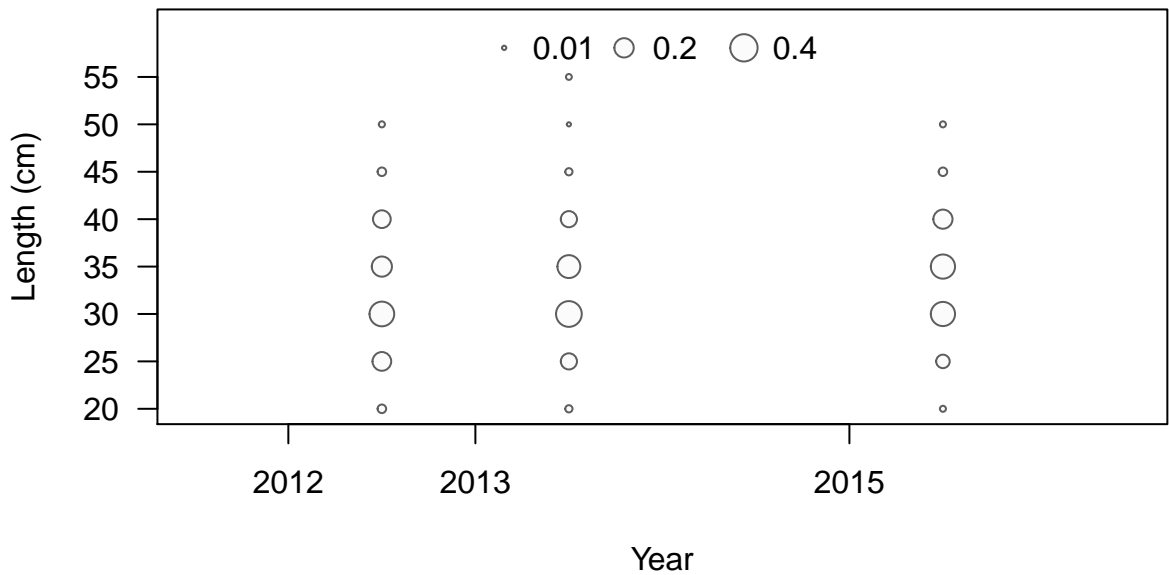




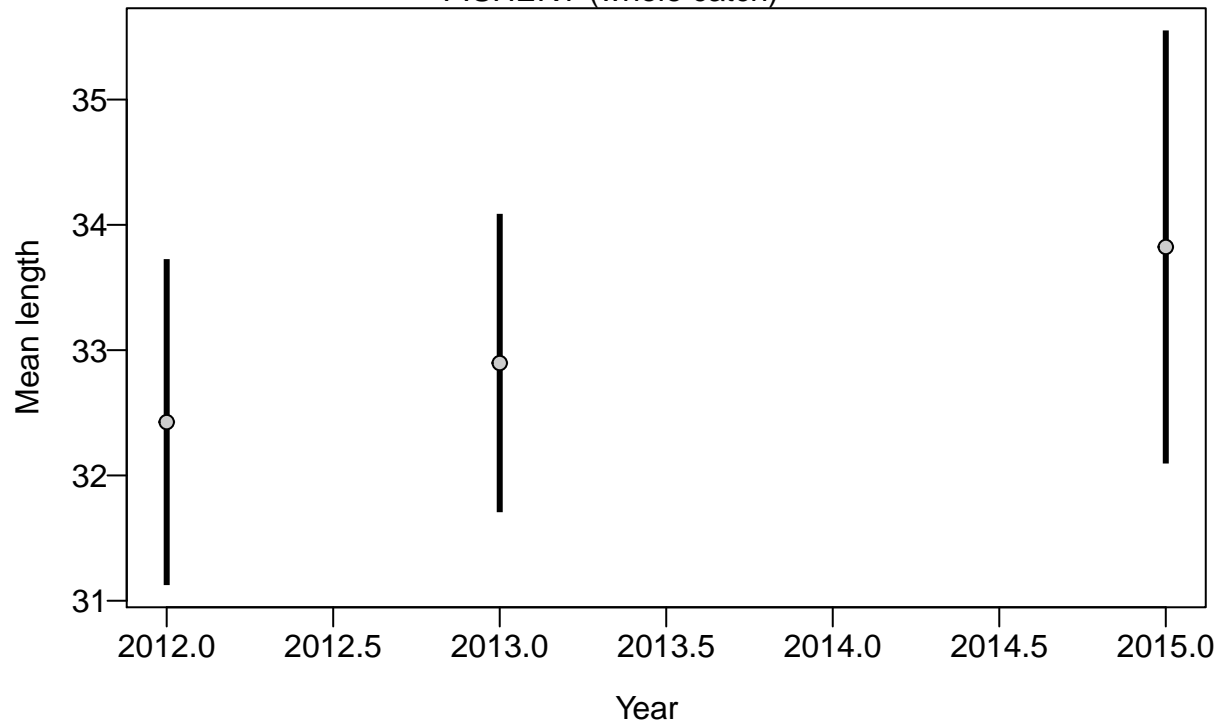


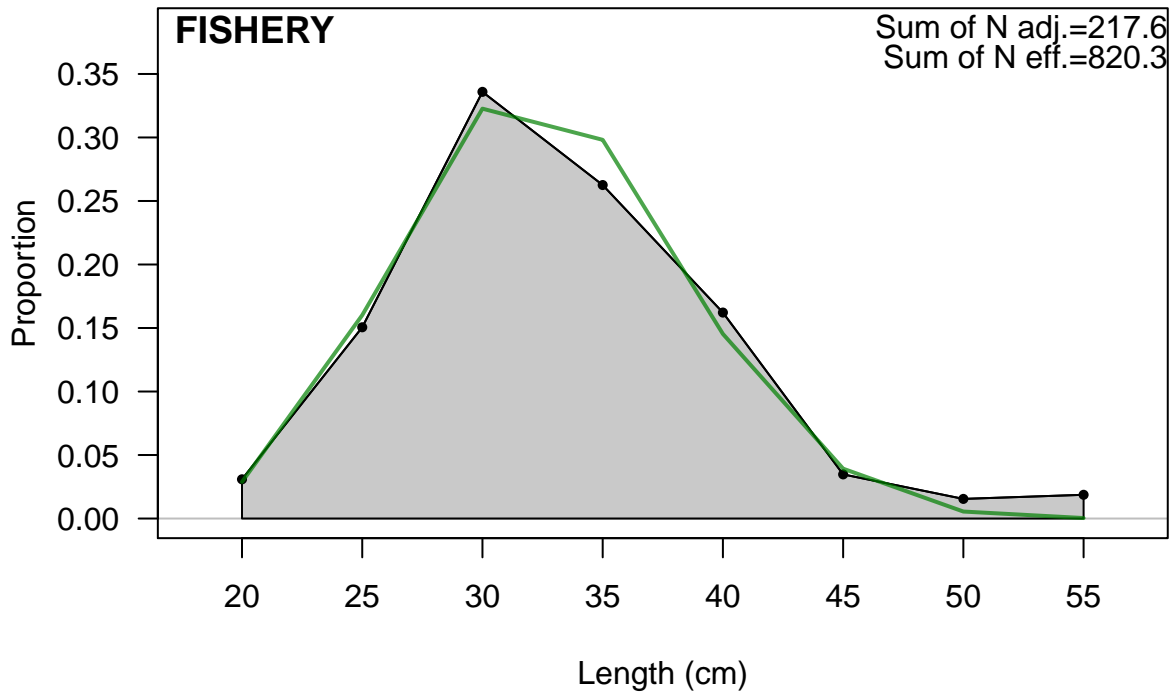


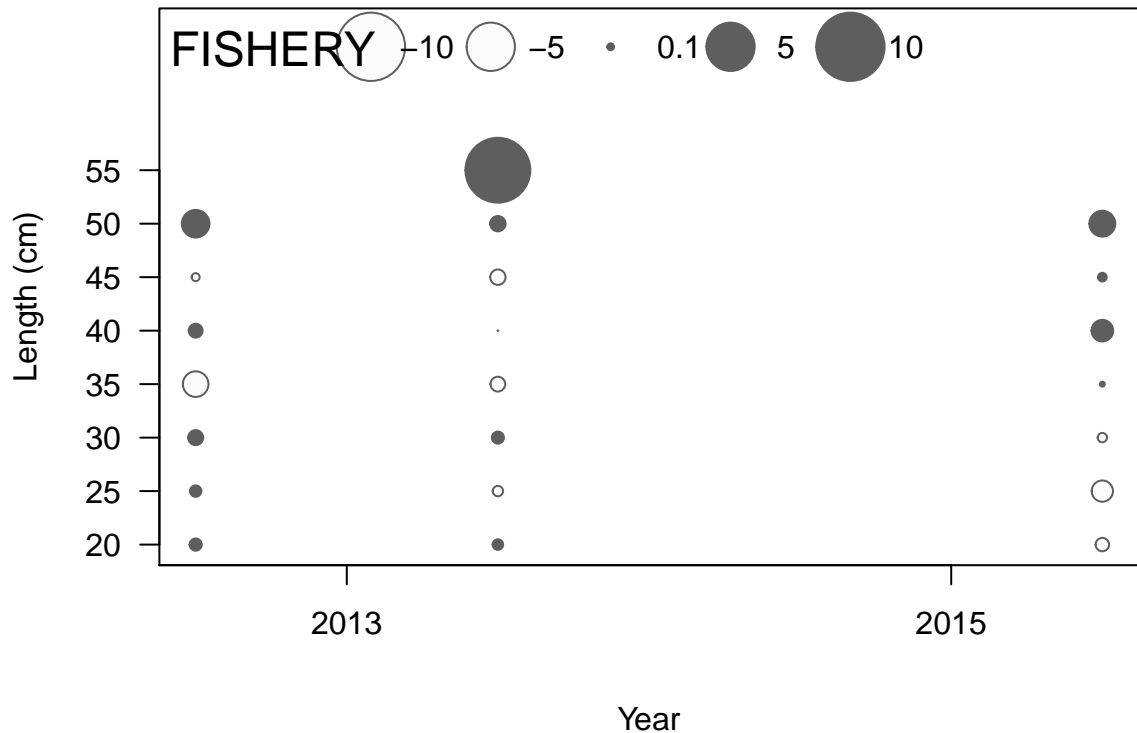
Length (cm)



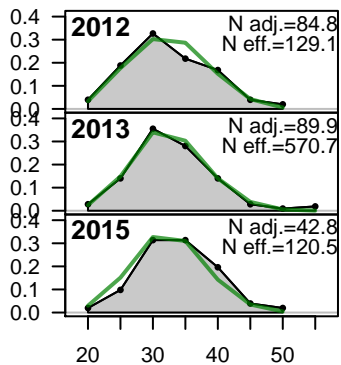
FISHERY (whole catch)



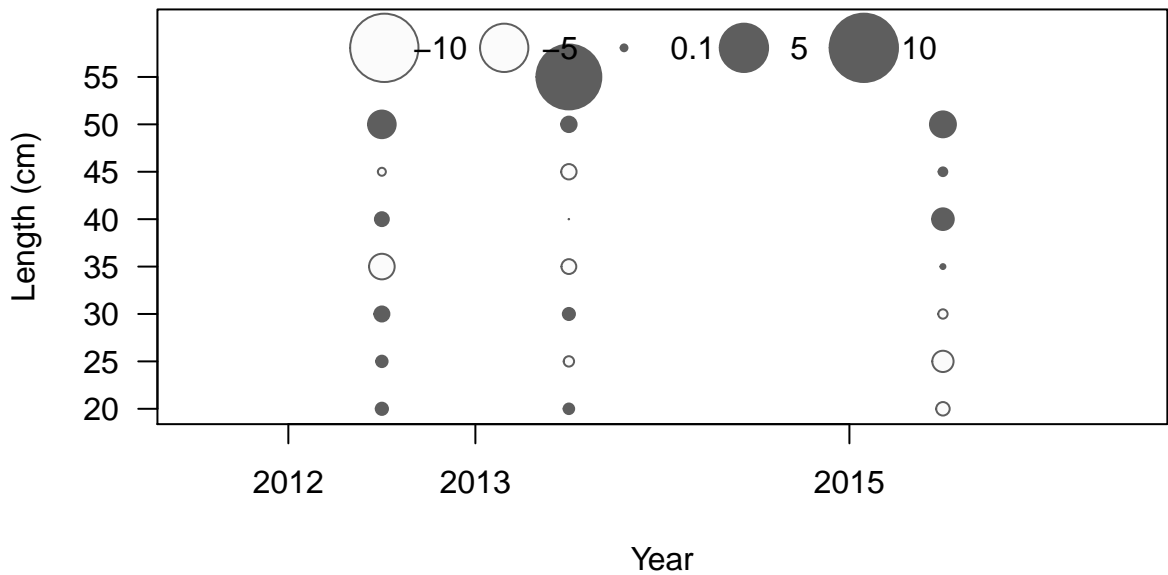




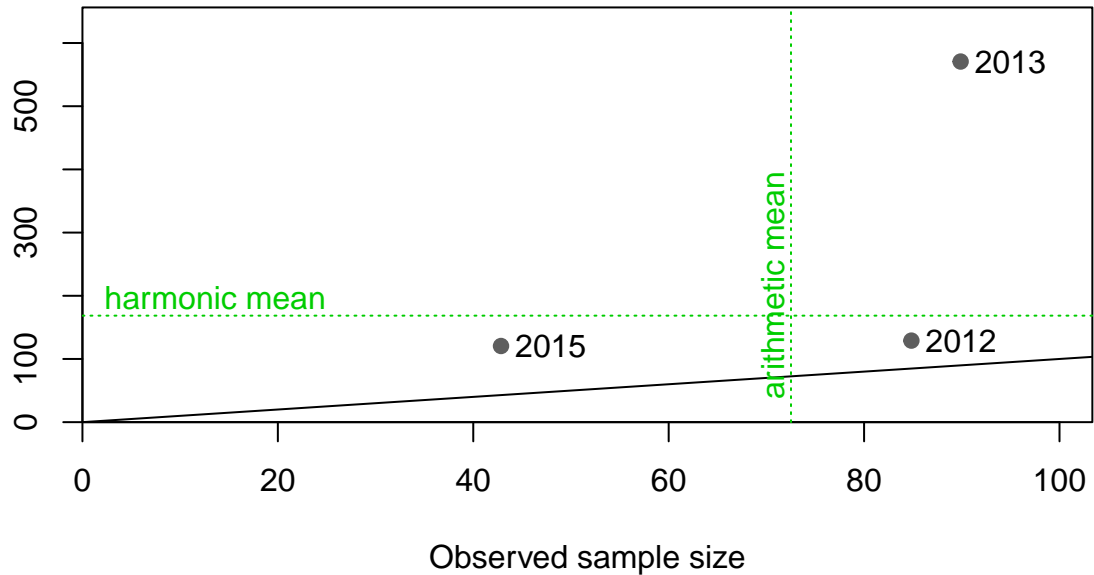
Proportion



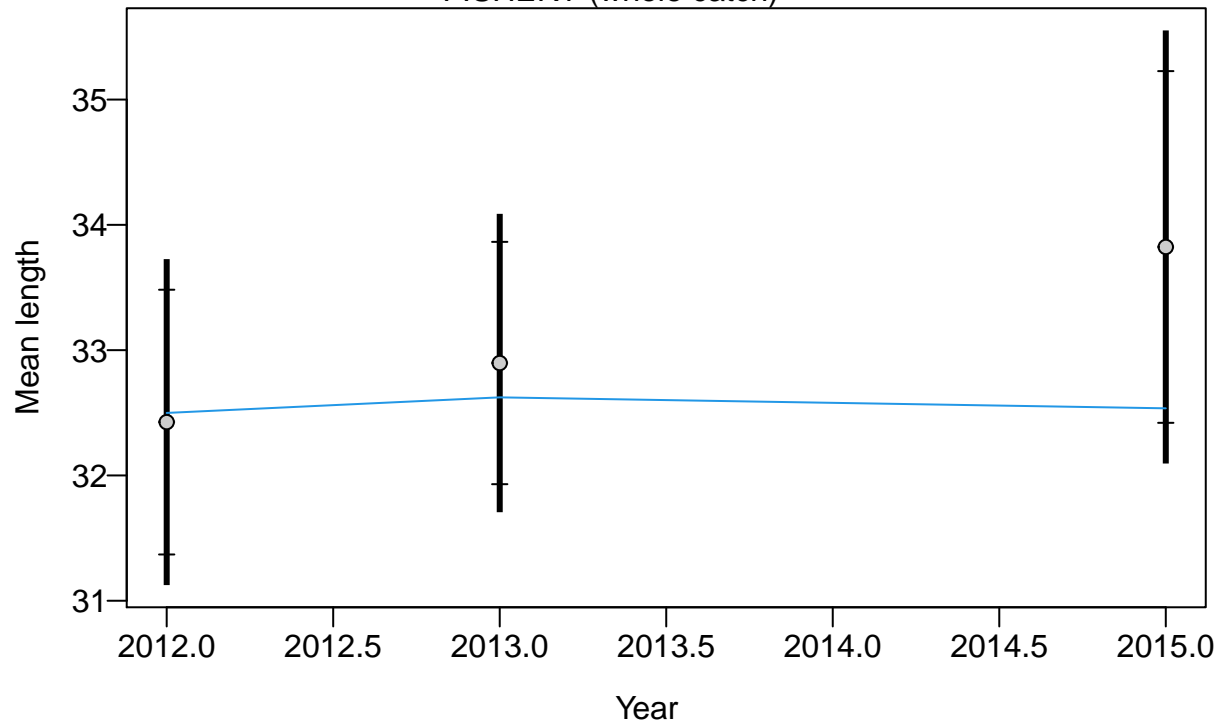
Length (cm)

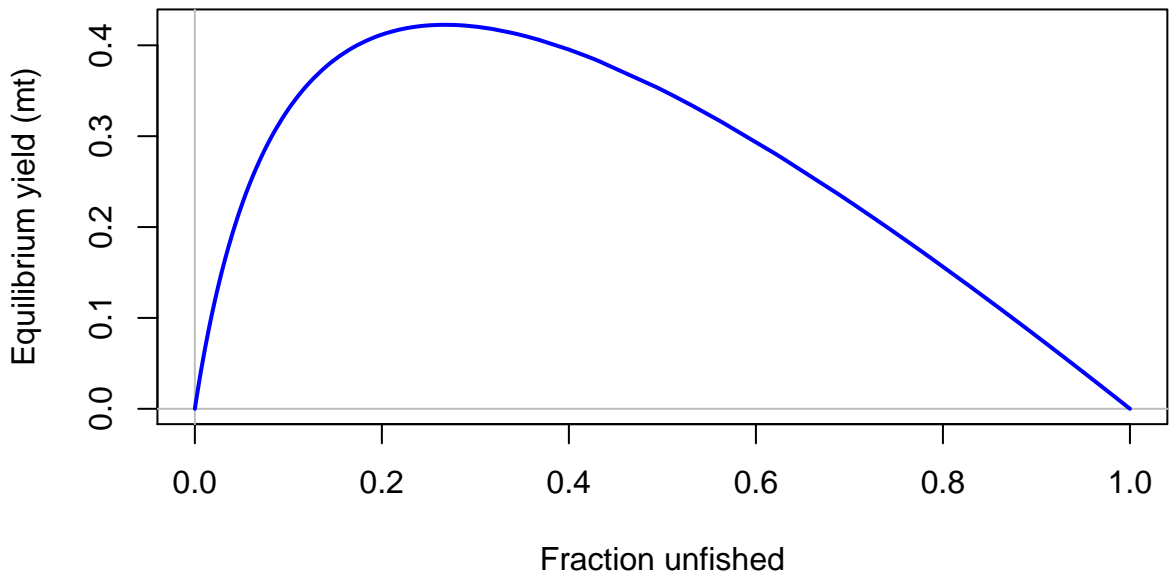


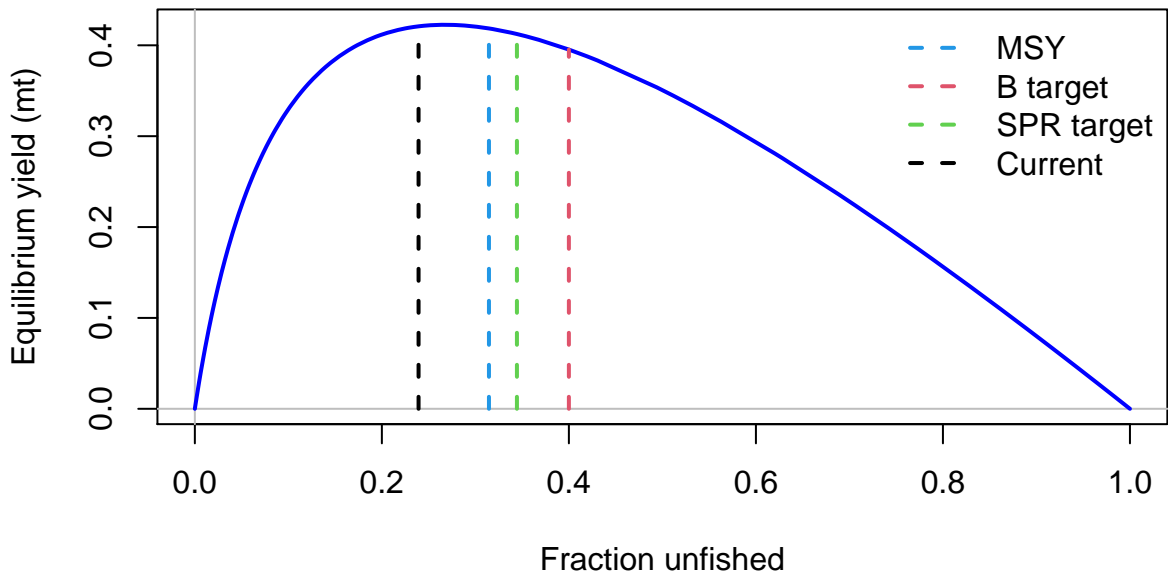
Effective sample size

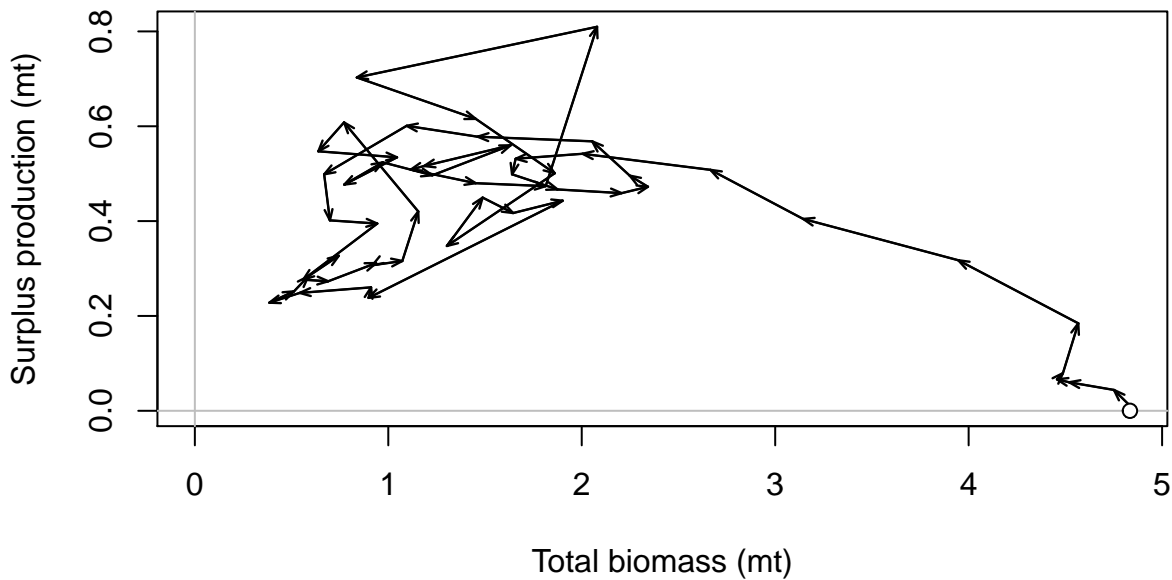


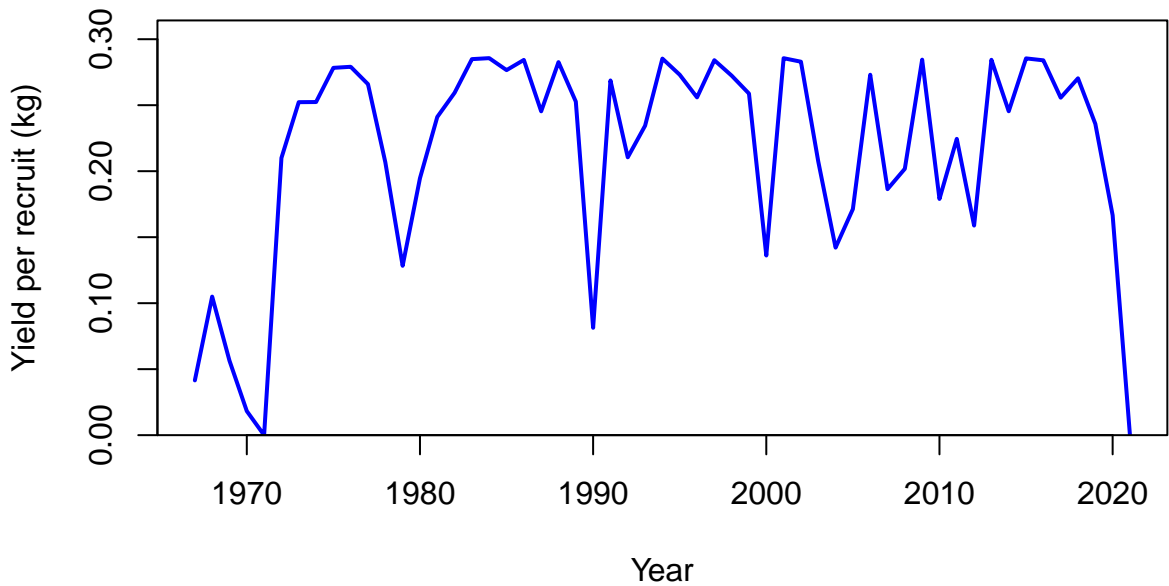
FISHERY (whole catch)

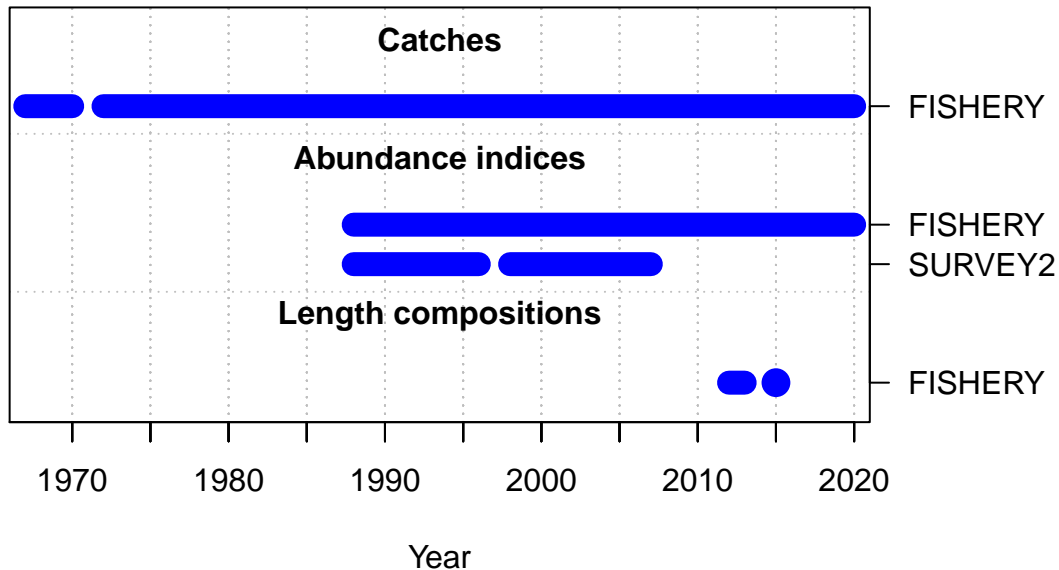


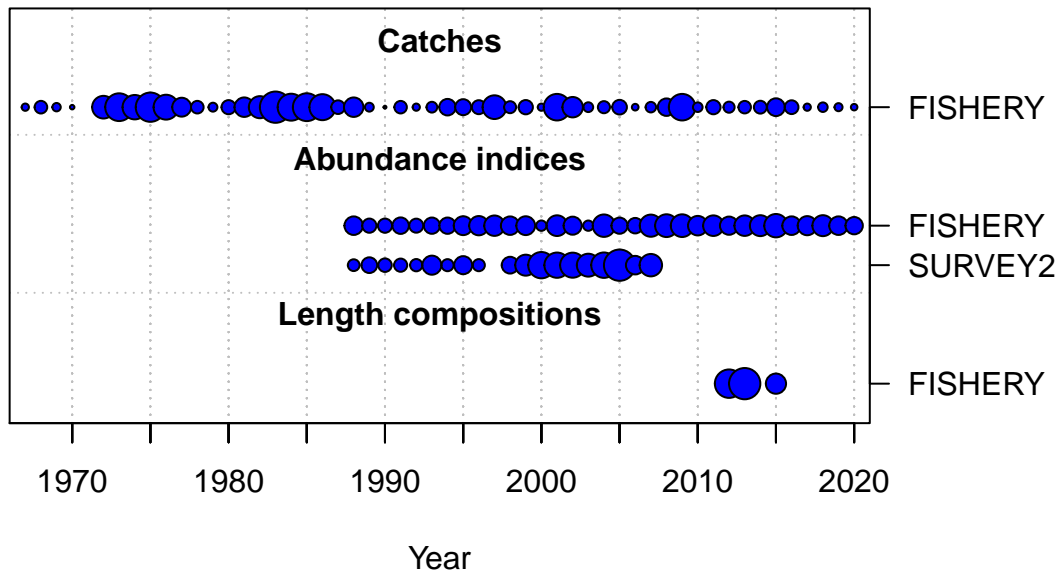




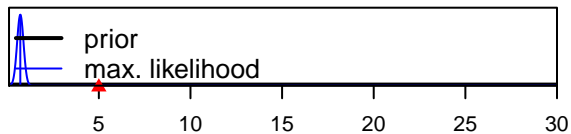




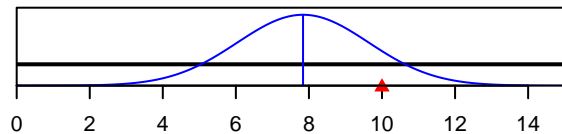




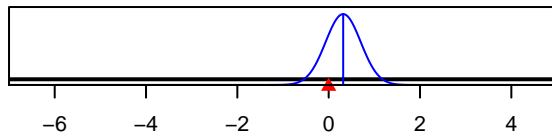
SR_LN(R0)



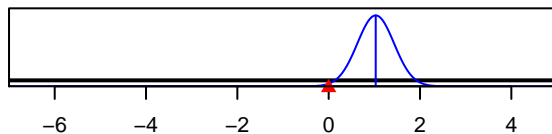
Size_95%width_FISHERY(1)



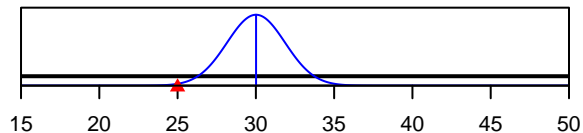
LnQ_base_FISHERY(1)



LnQ_base_SURVEY2(2)



Size_inflection_FISHERY(1)



Parameter value