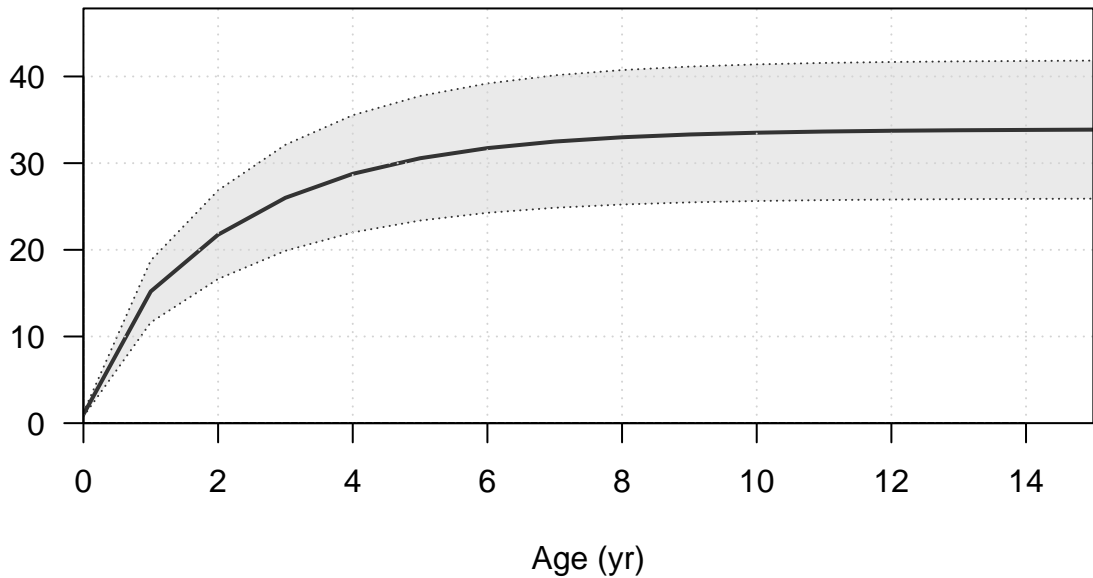
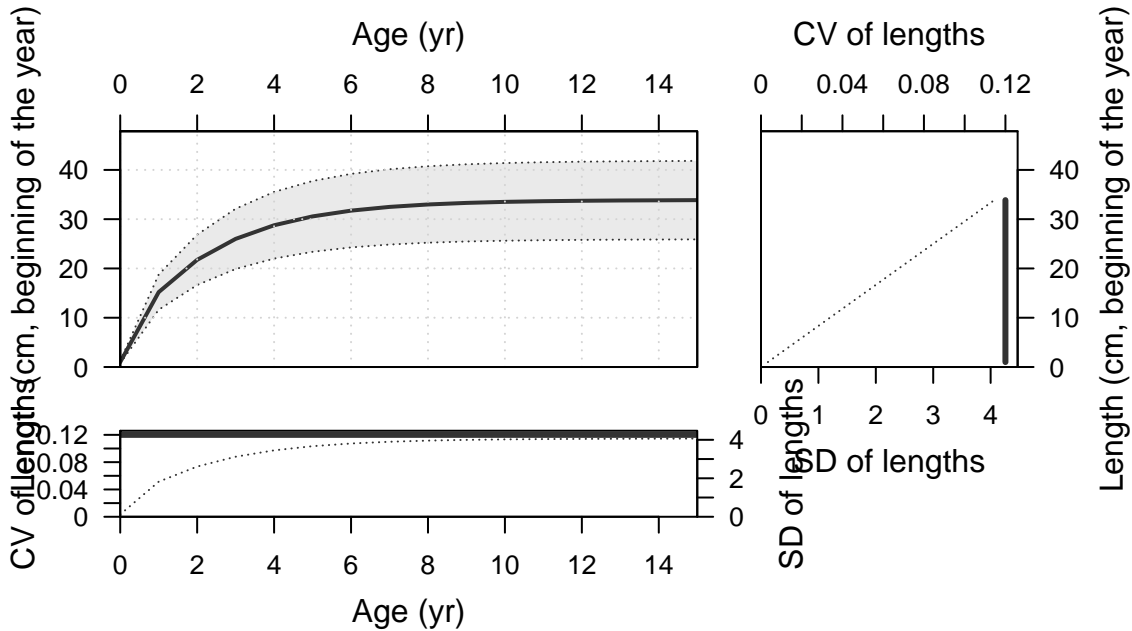
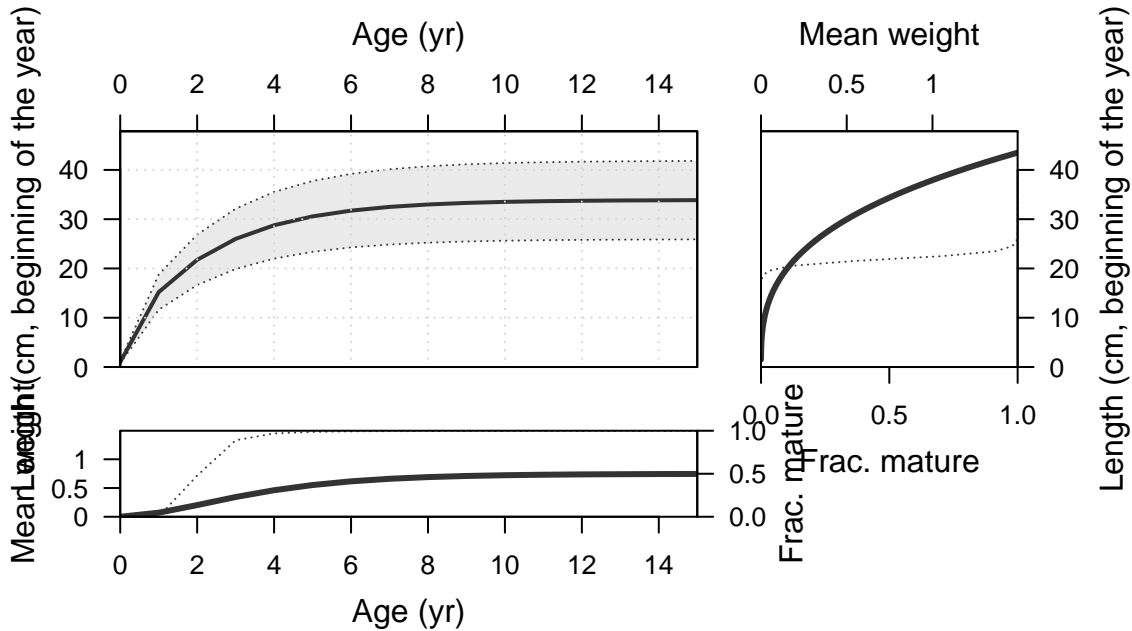


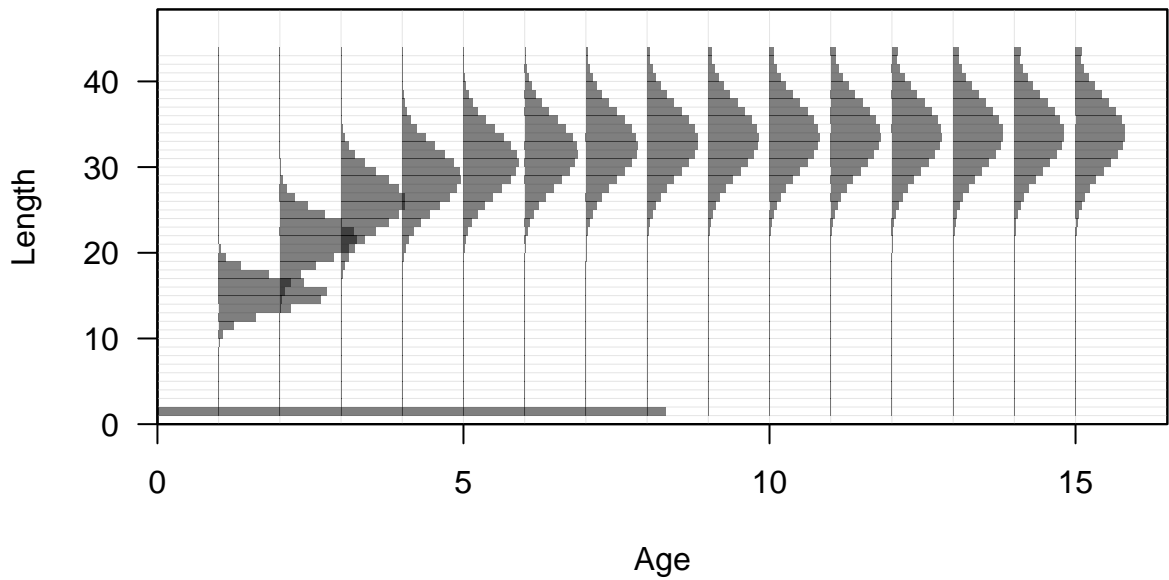
Plots created using the 'r4ss' package in R
Stock Synthesis version: 3.30.19.0
StartTime: Tue Aug 02 10:53:32 2022
Data_File: data.ss
Control_File: control.ss

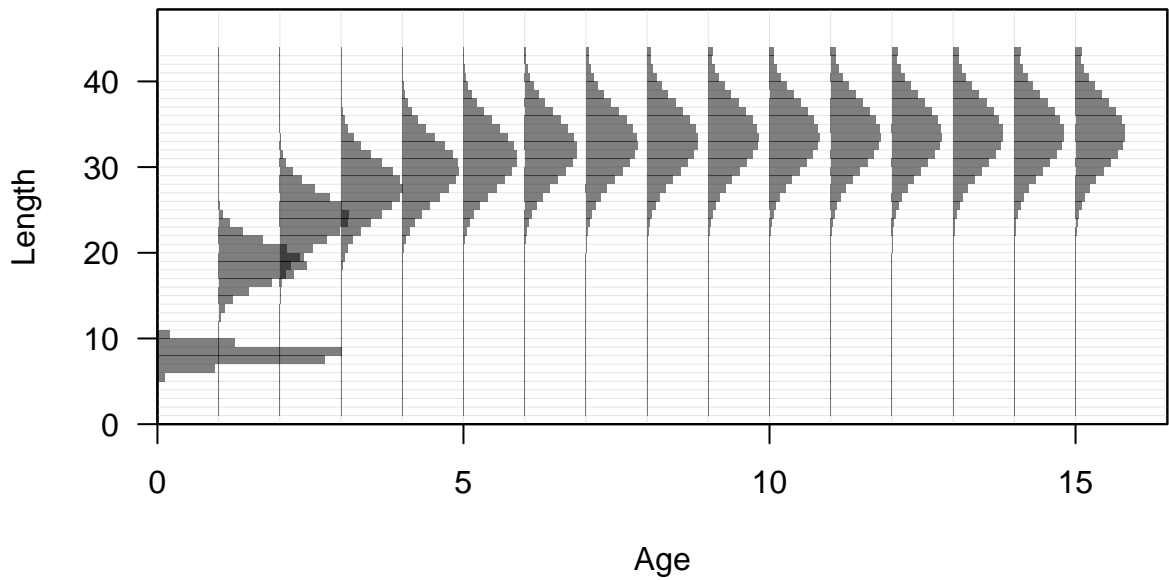
Length (cm, beginning of the year)





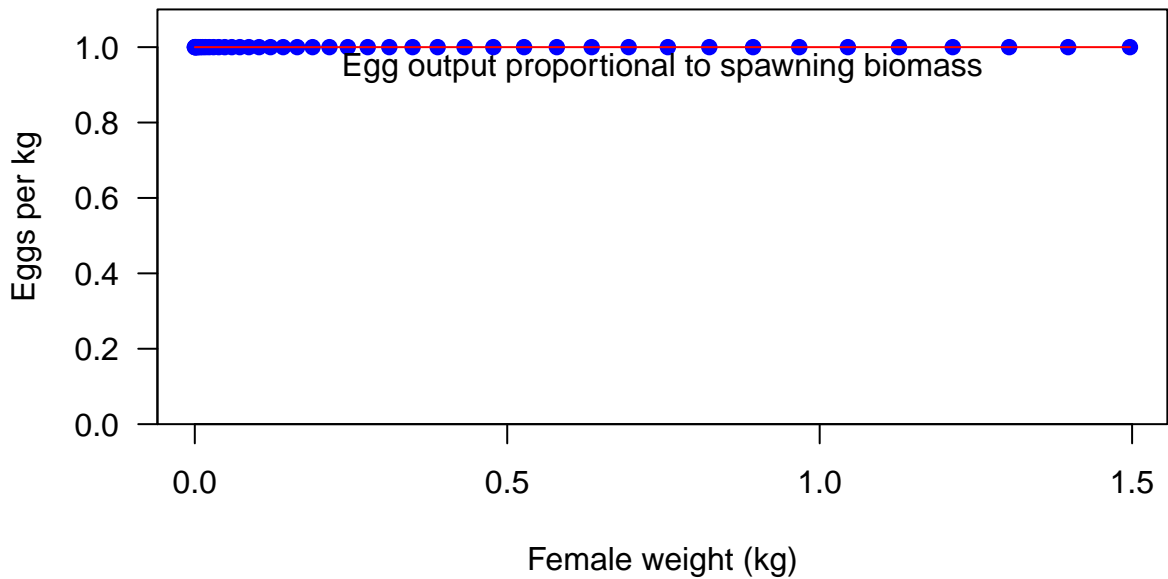








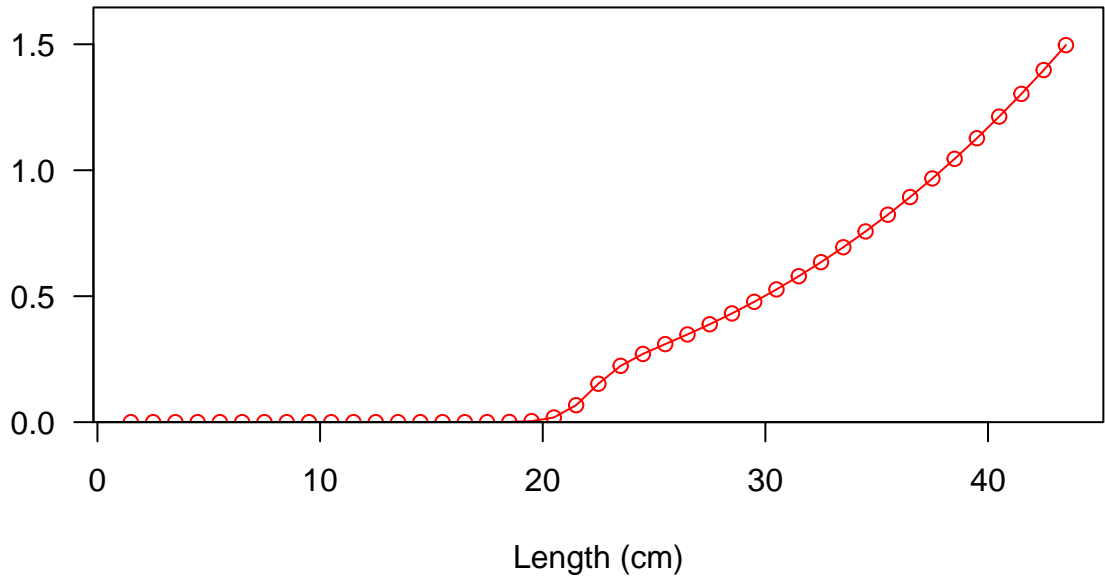


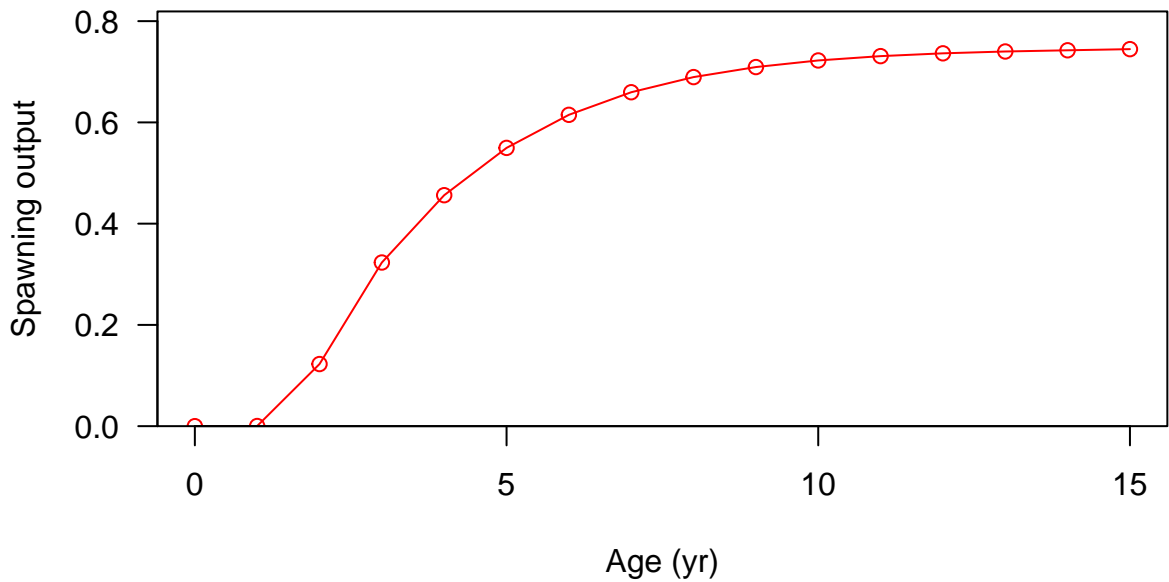






Spawning output

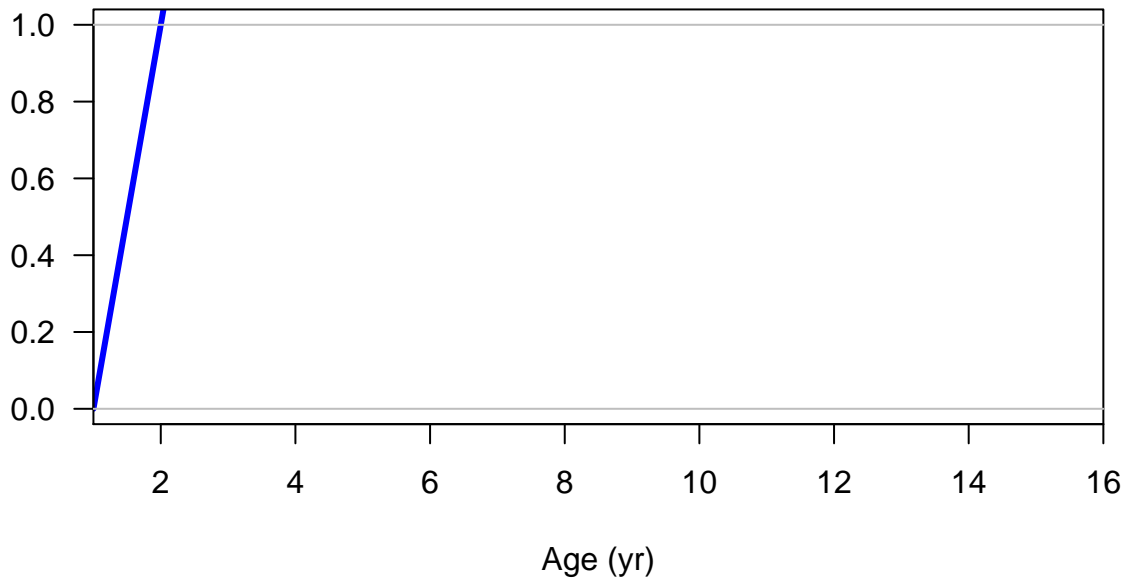




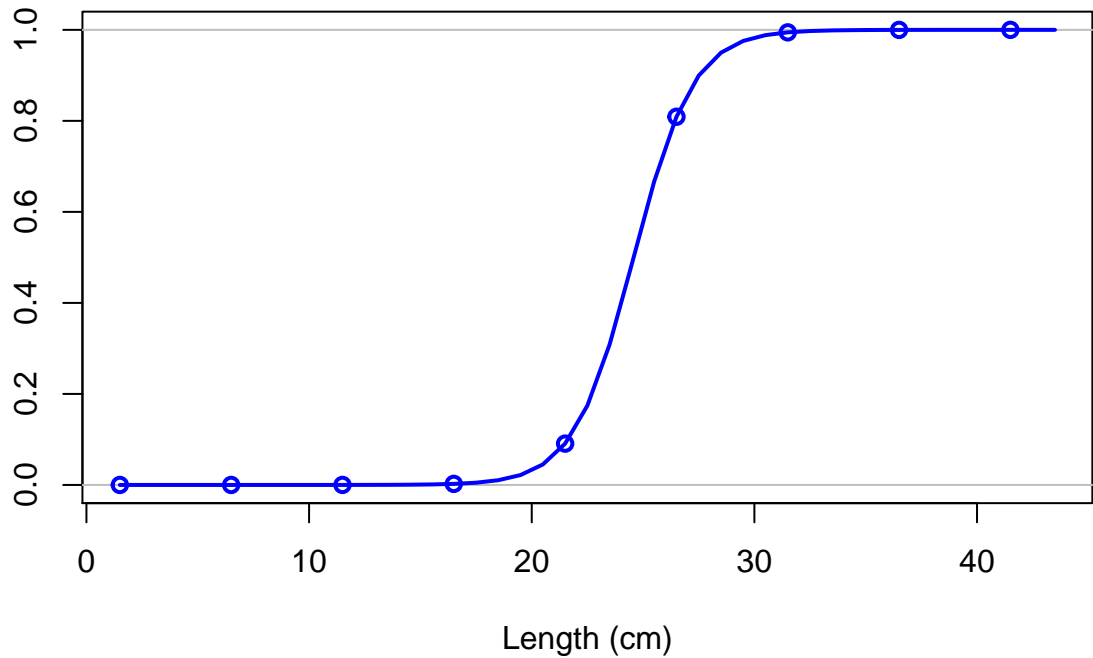
Hermaphroditism transition rate



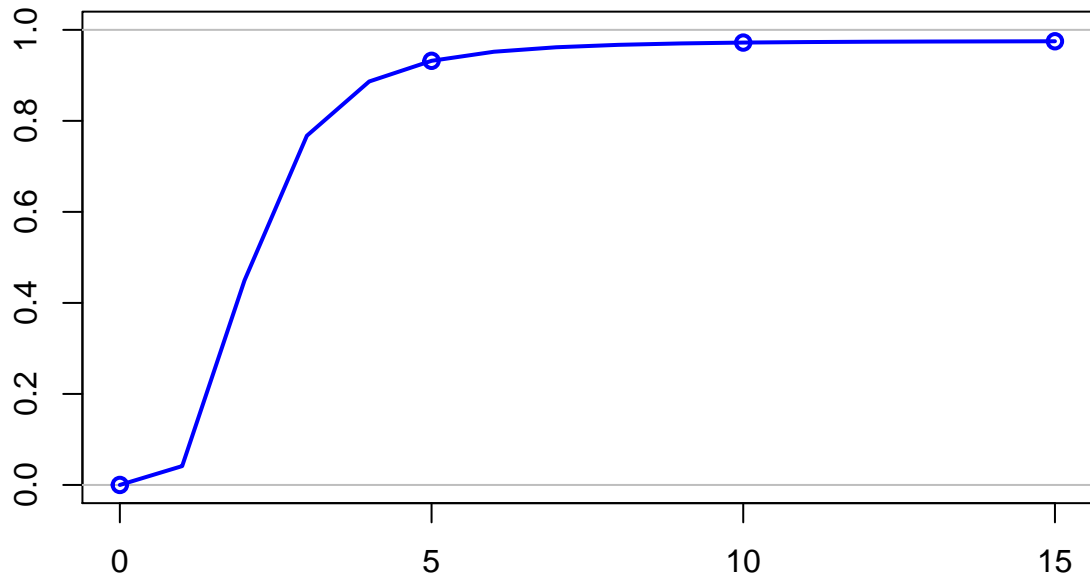
Fraction females by age at equilibrium



Selectivity

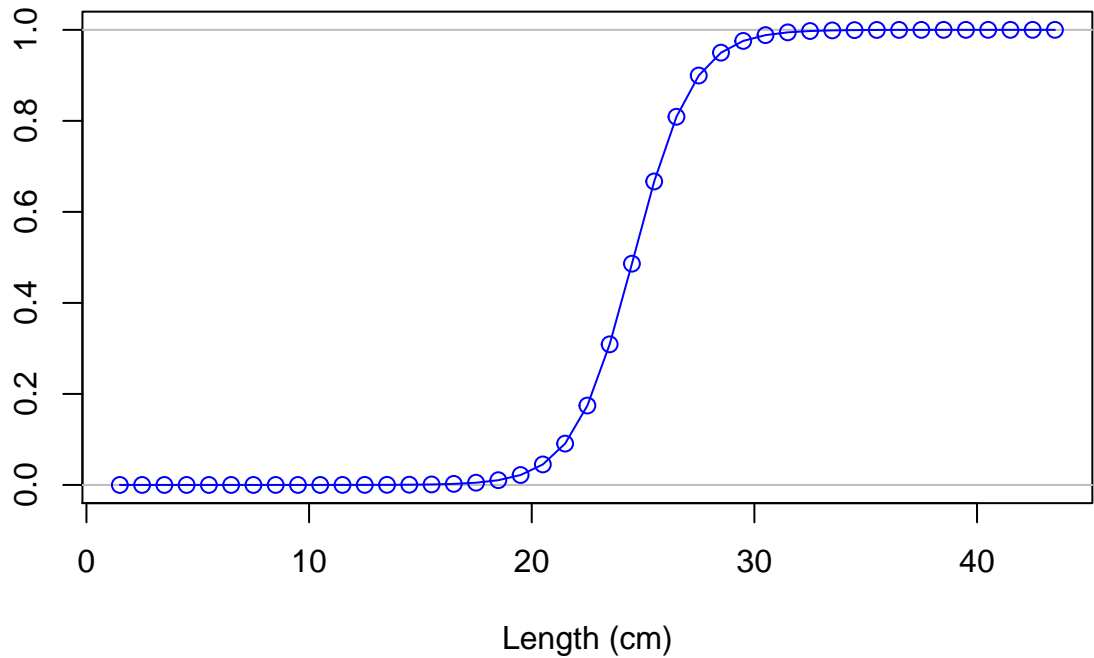


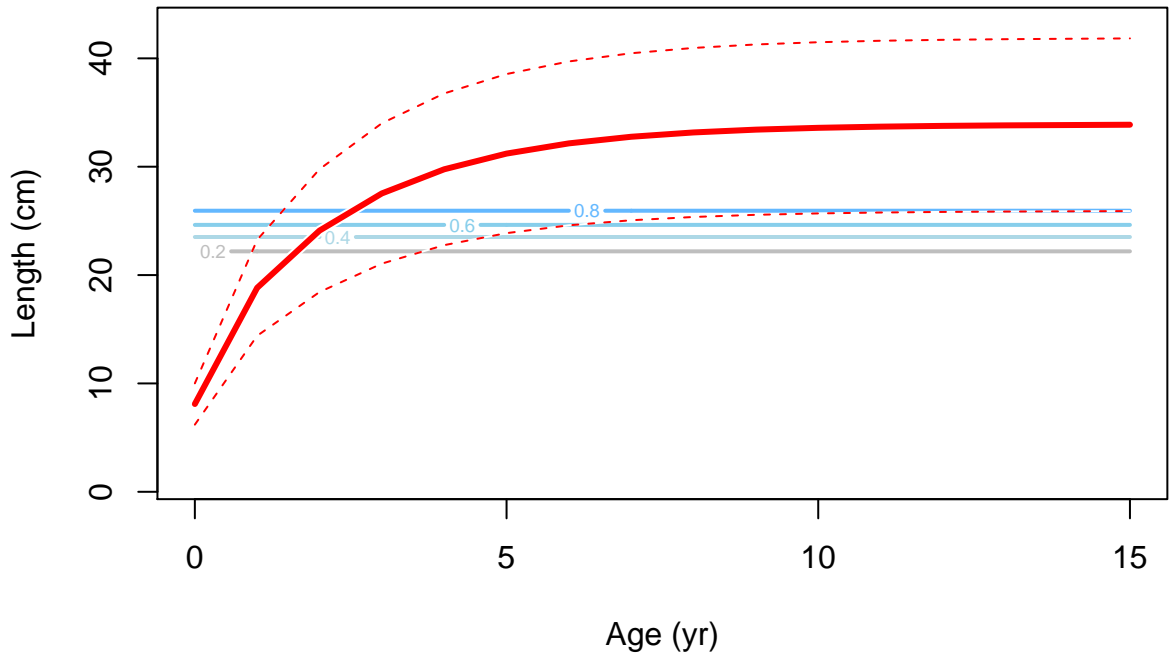
Selectivity

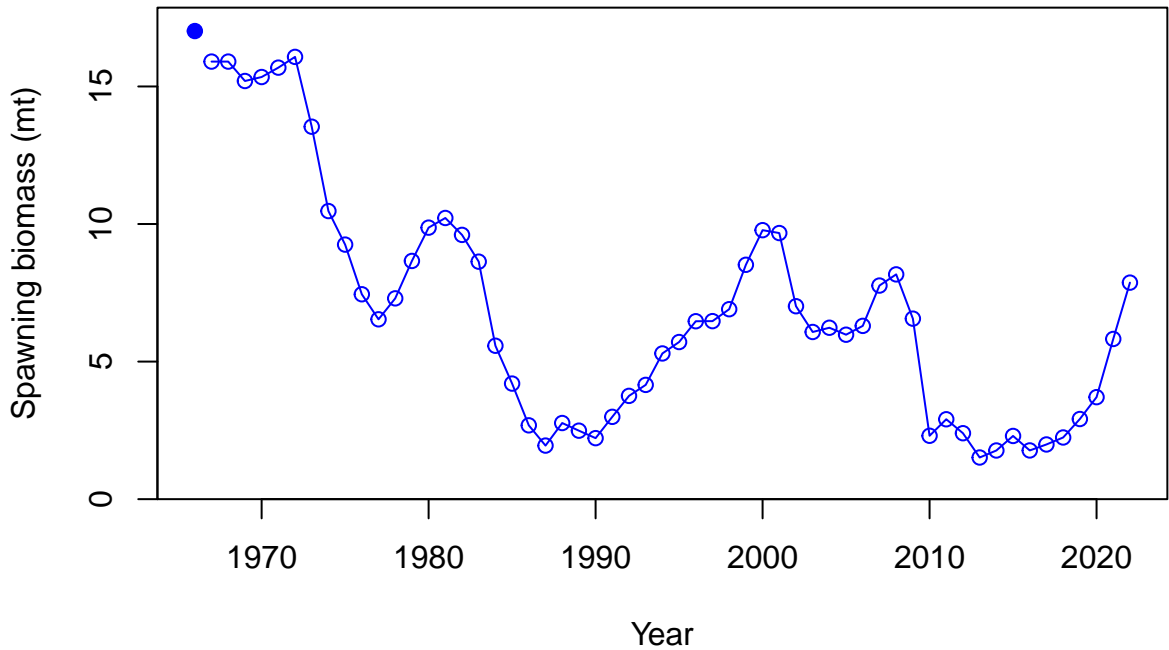


Age (yr)

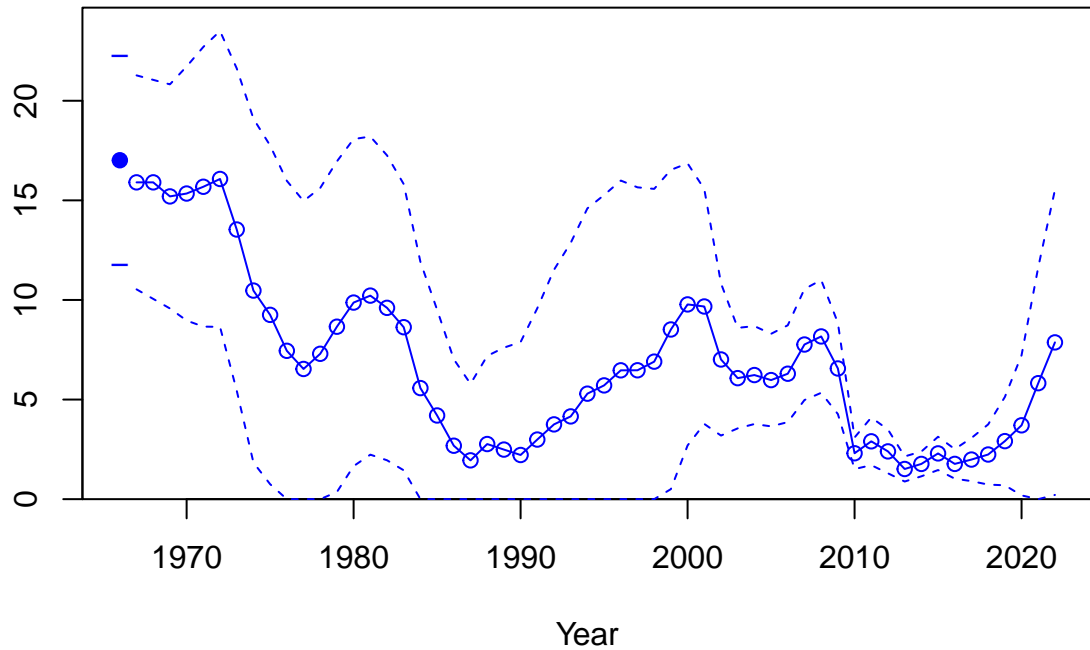
Selectivity



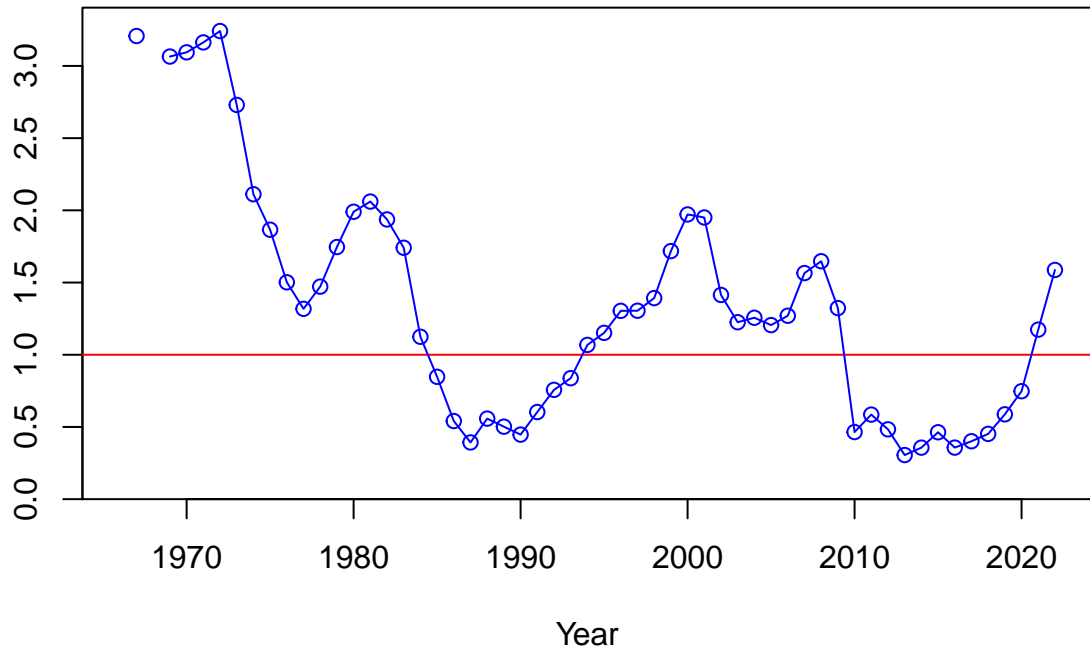




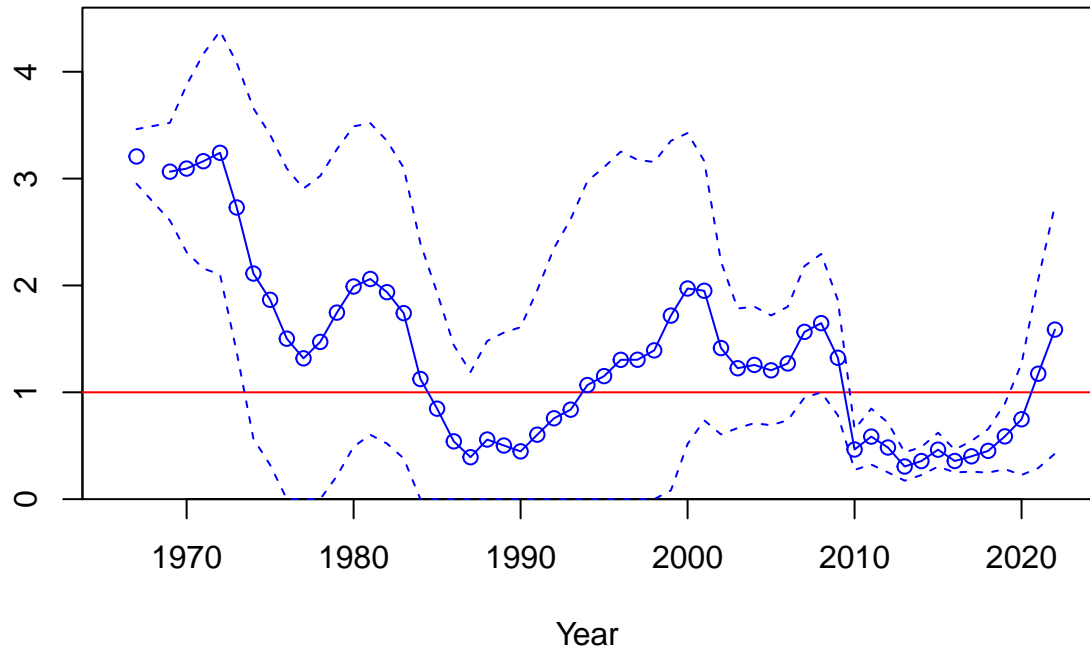
Spawning biomass (mt)

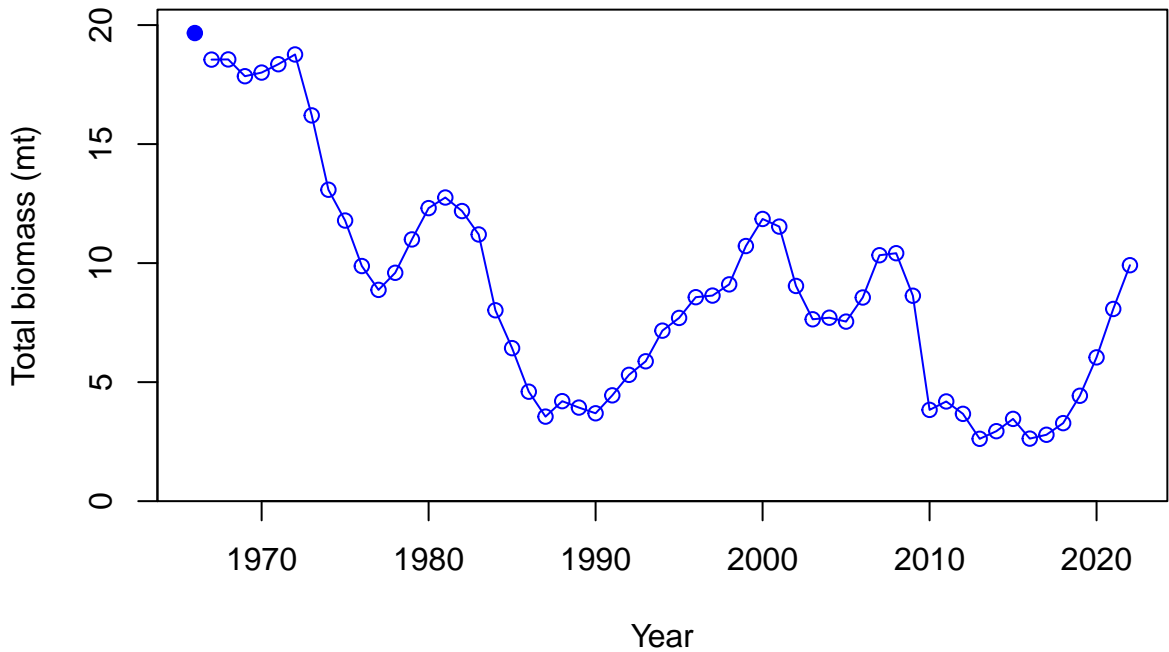


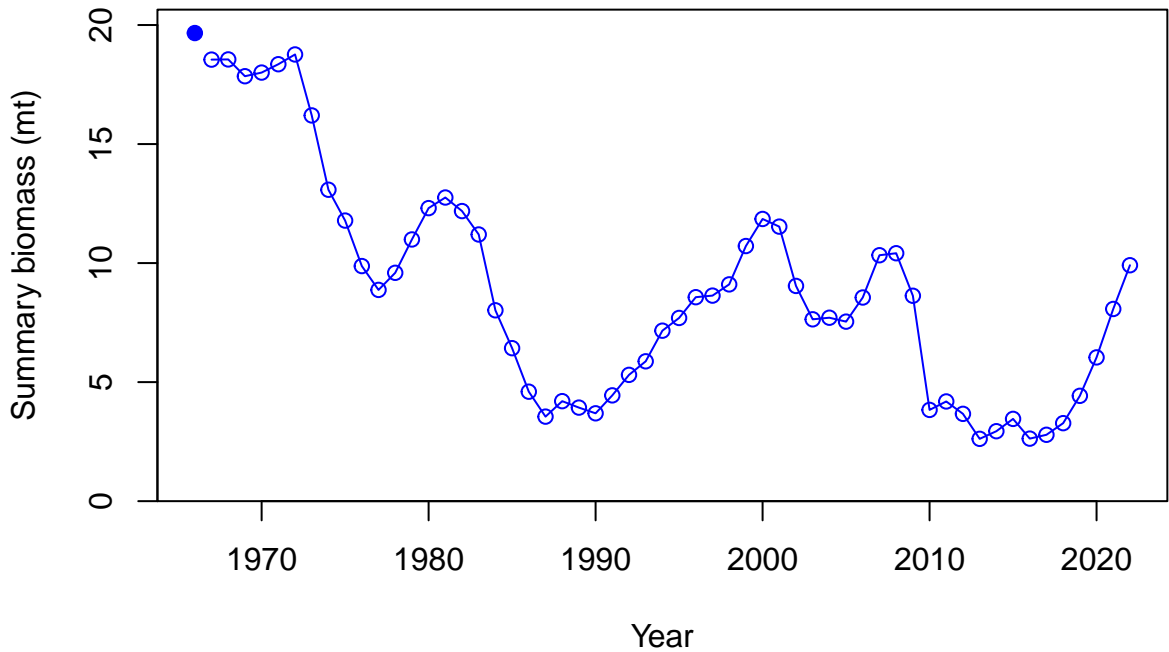
Relative spawning biomass: B/B_{MSY}



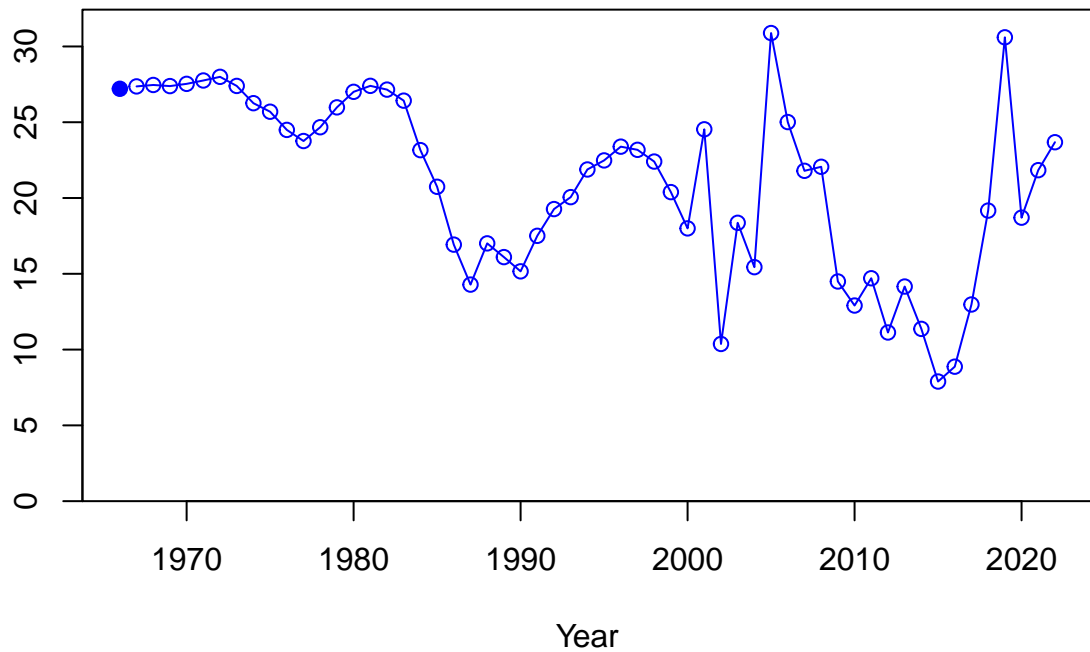
Relative spawning biomass: B/B_{MSY}



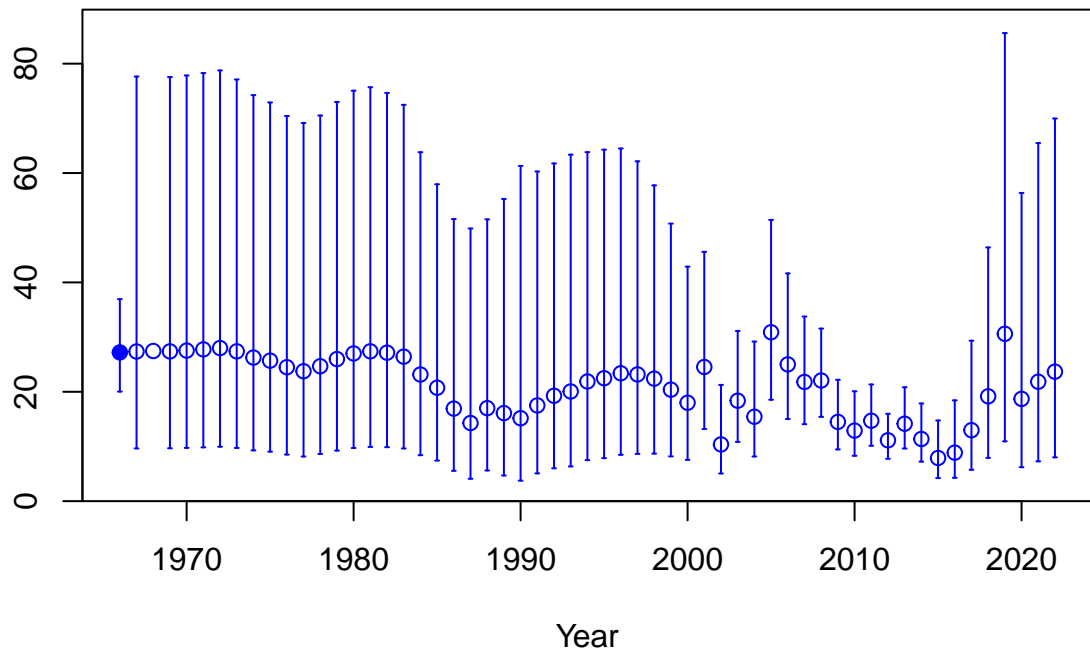




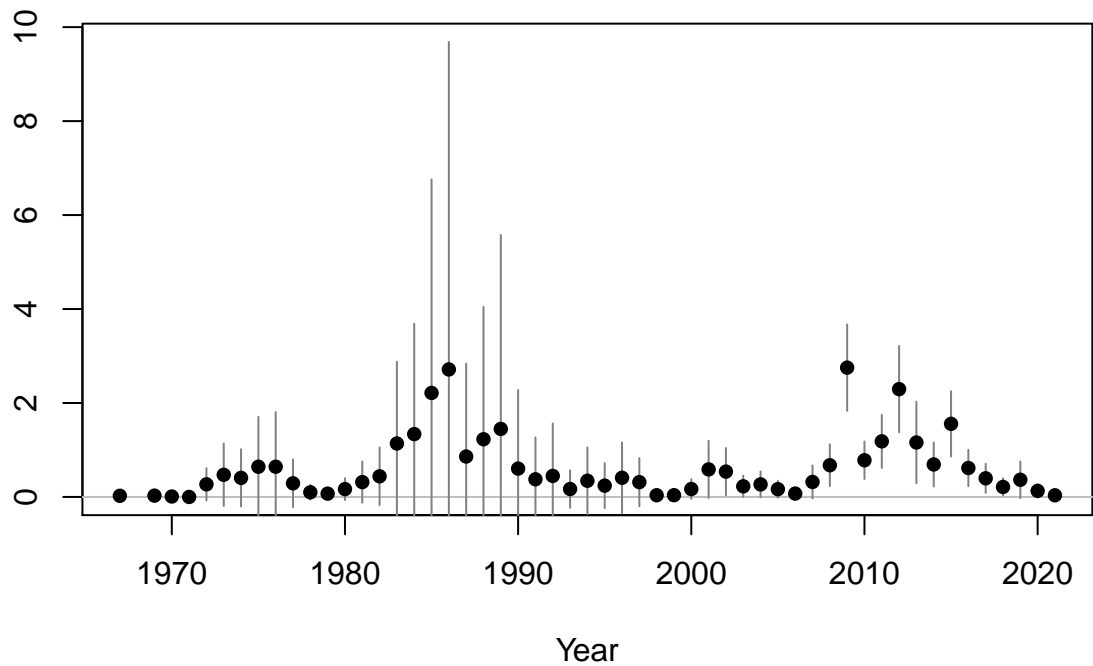
Age-0 recruits (1,000s)

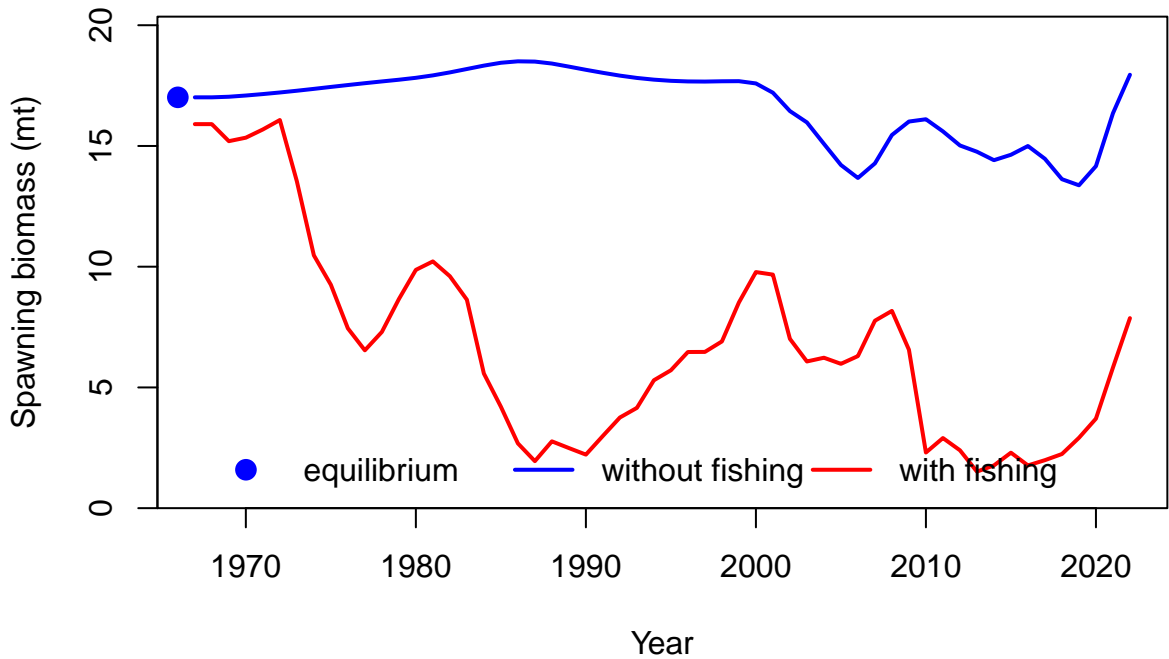


Age-0 recruits (1,000s)



Summary Fishing Mortality





Log recruitment deviation

0.5
0.0
-0.5

1970

1980

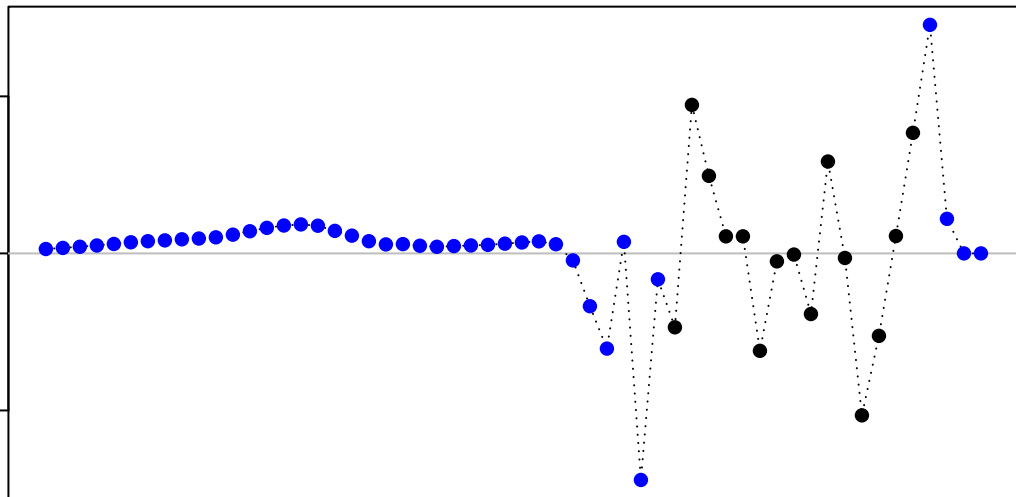
1990

2000

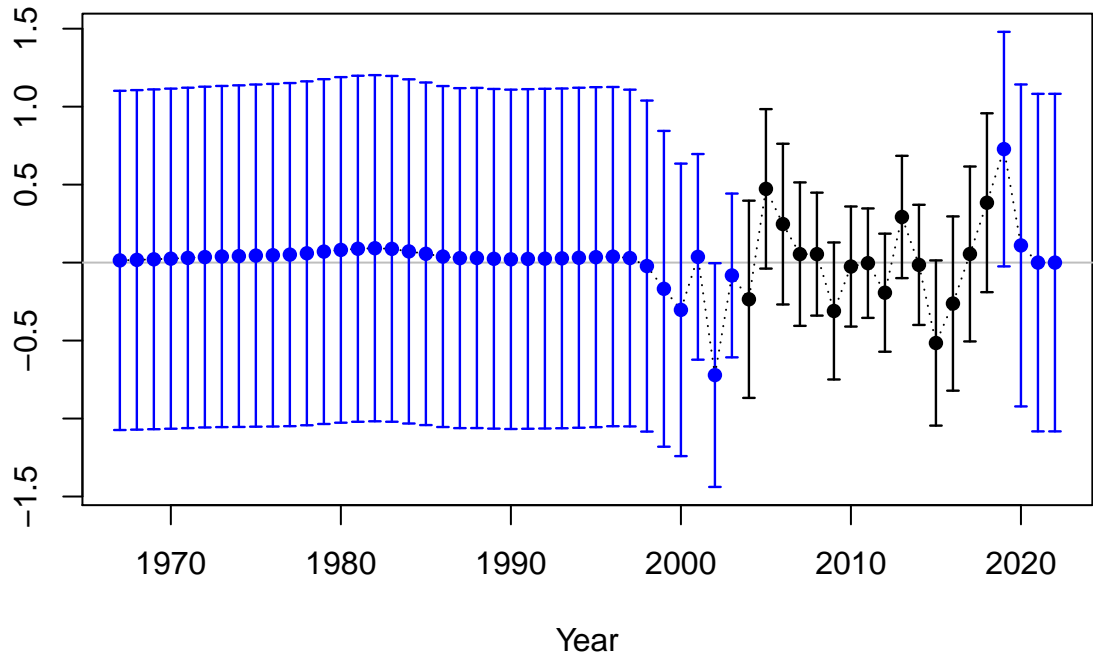
2010

2020

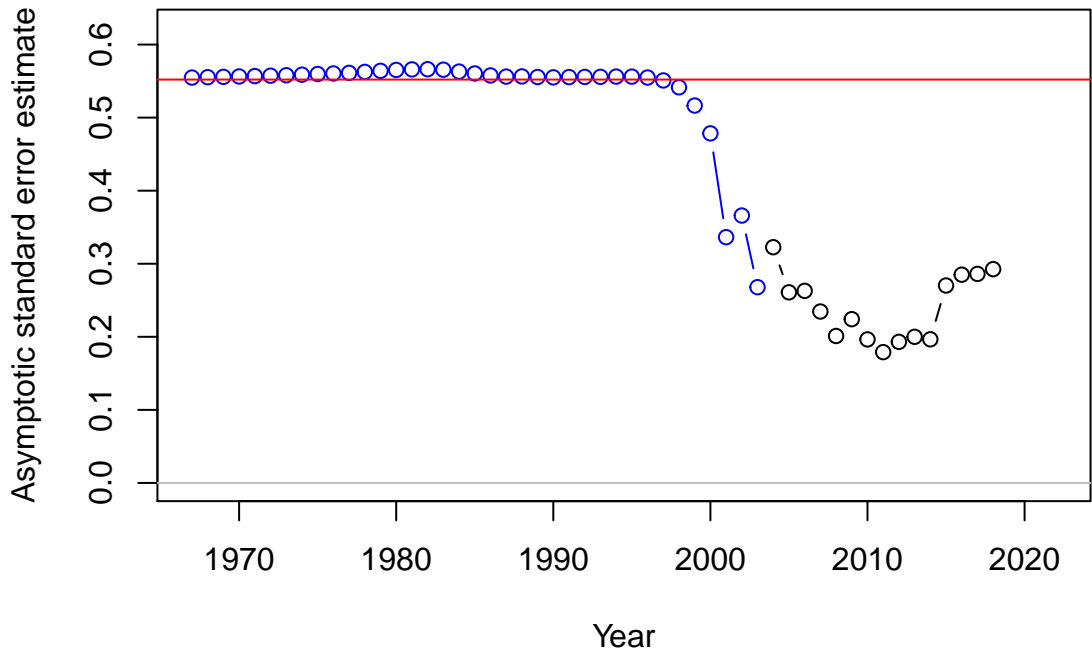
Year

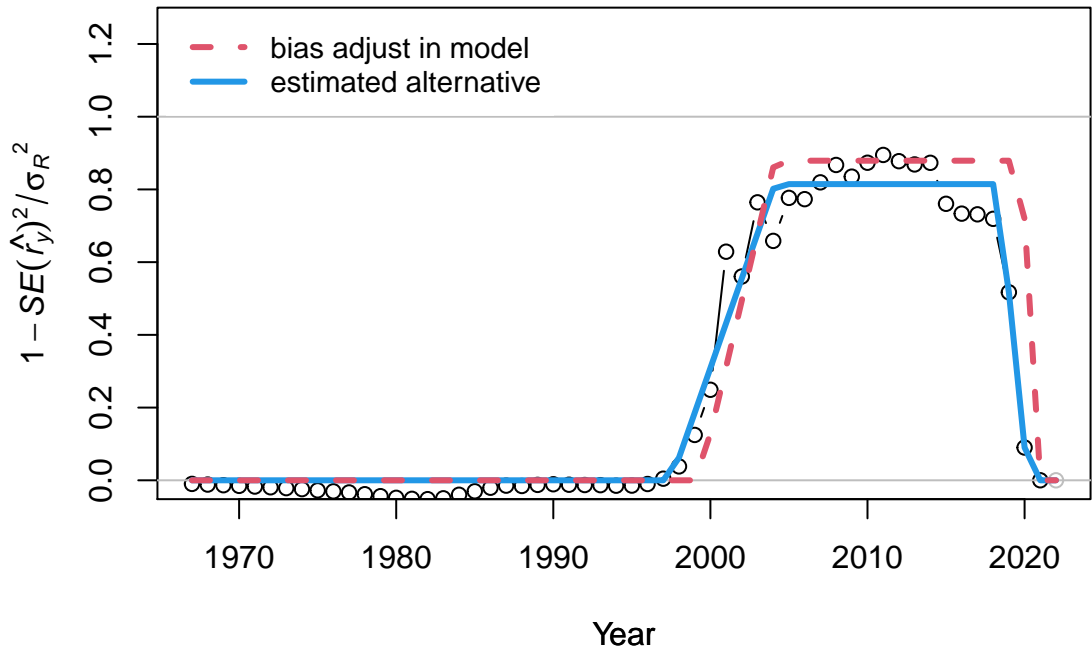


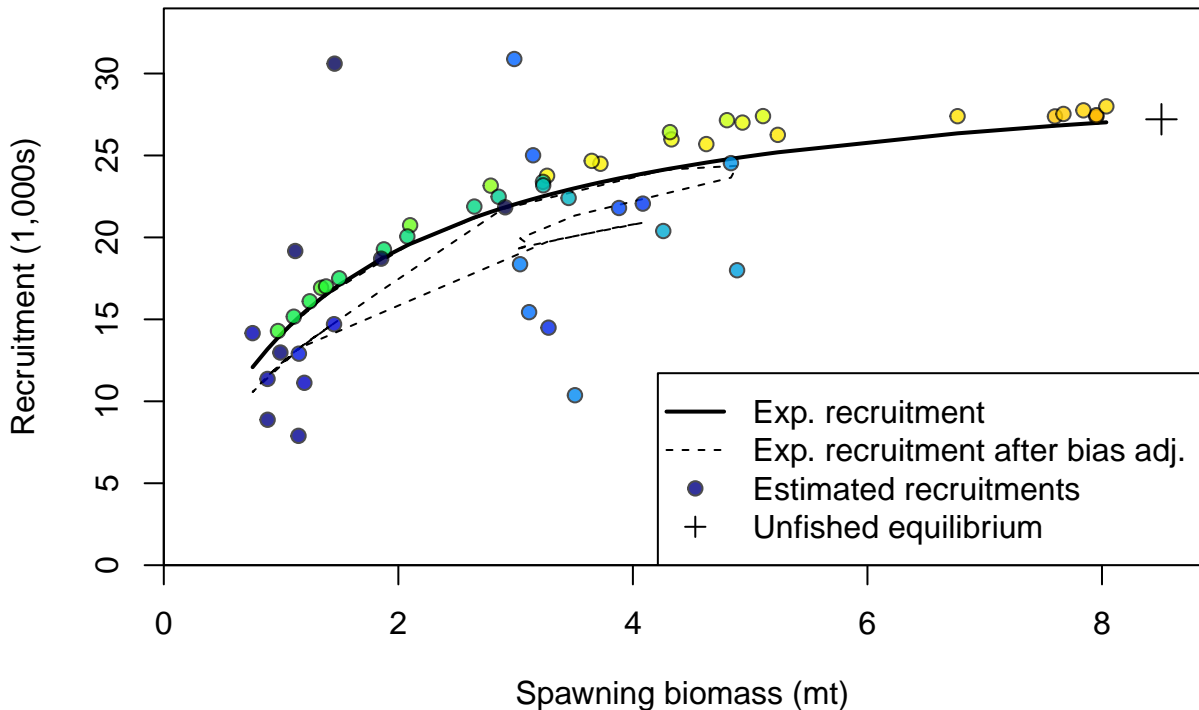
Log recruitment deviation

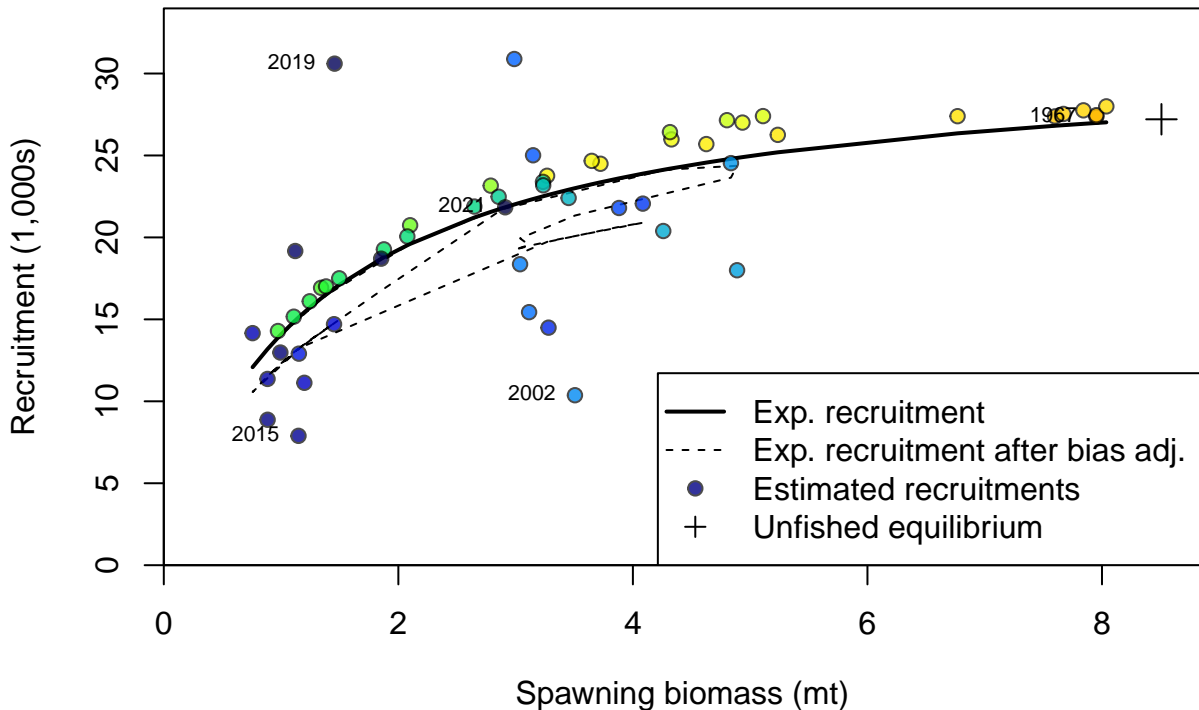


Recruitment deviation variance









Log recruitment deviation

0.5

0.0

-0.5

0.0

0.2

0.4

0.6

0.8

Spawning output (relative to B_0)

2019

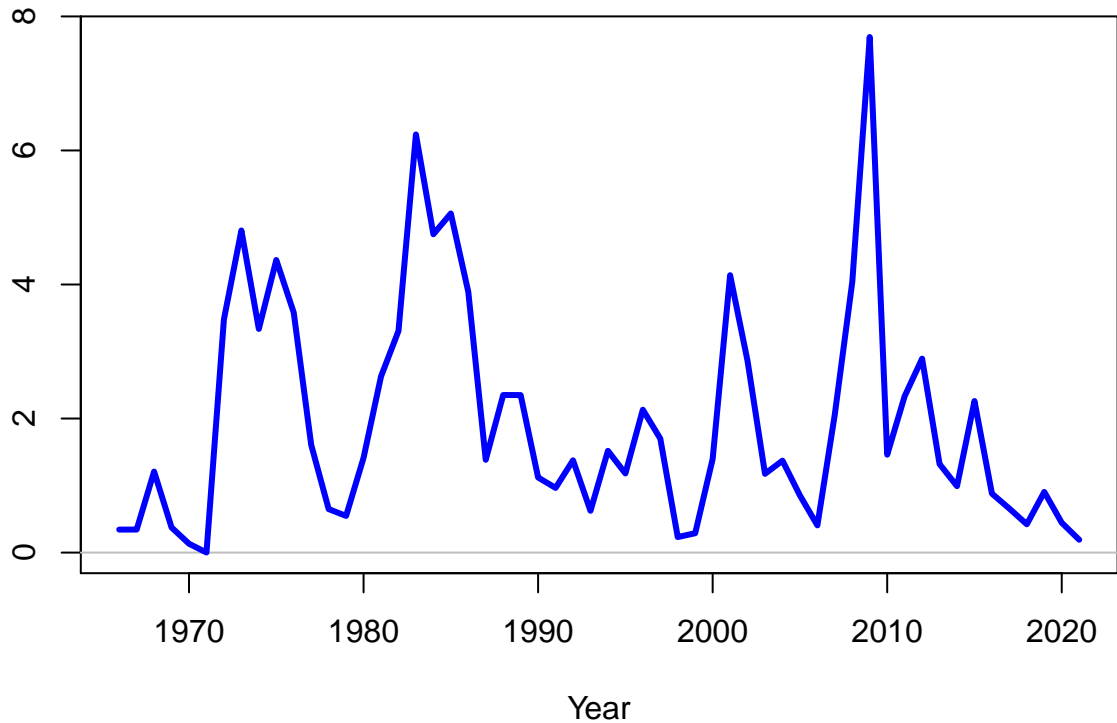
2015

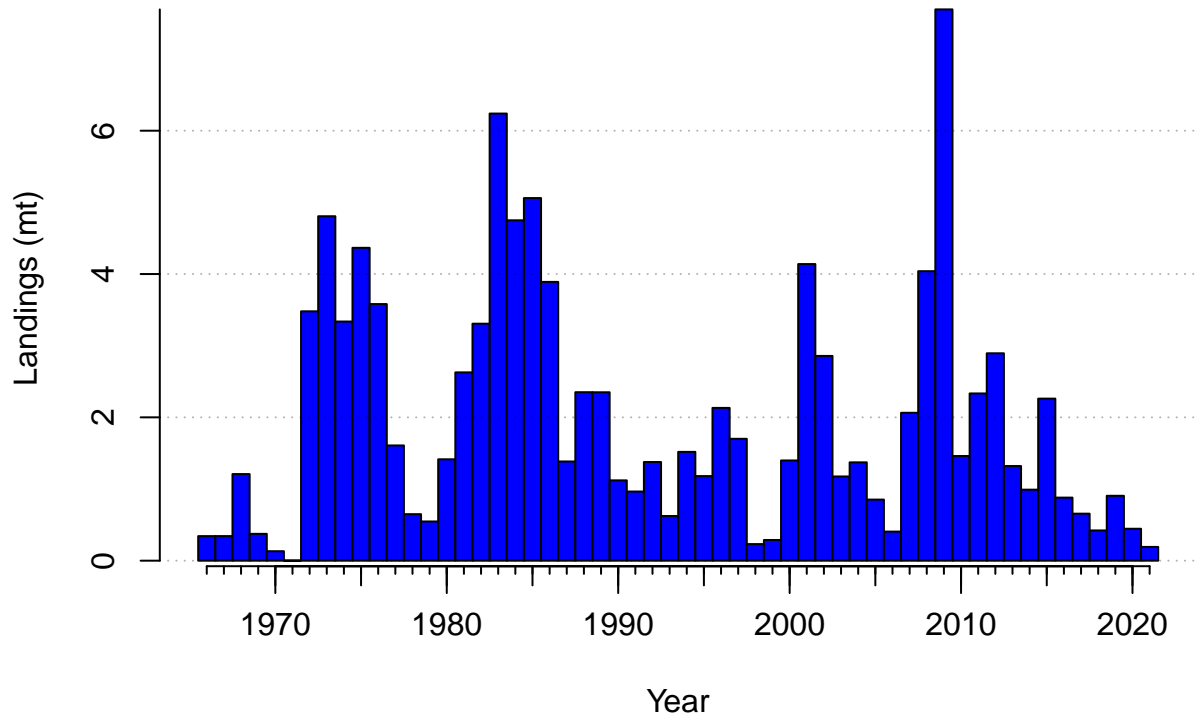
2021

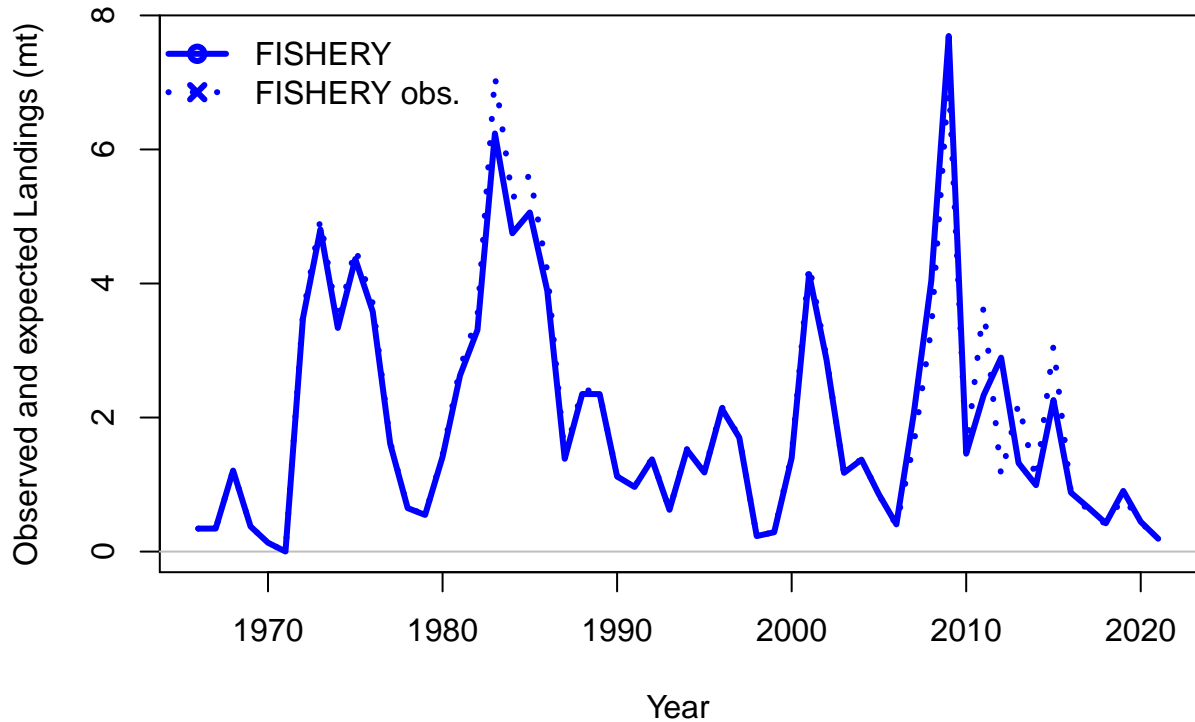
2002

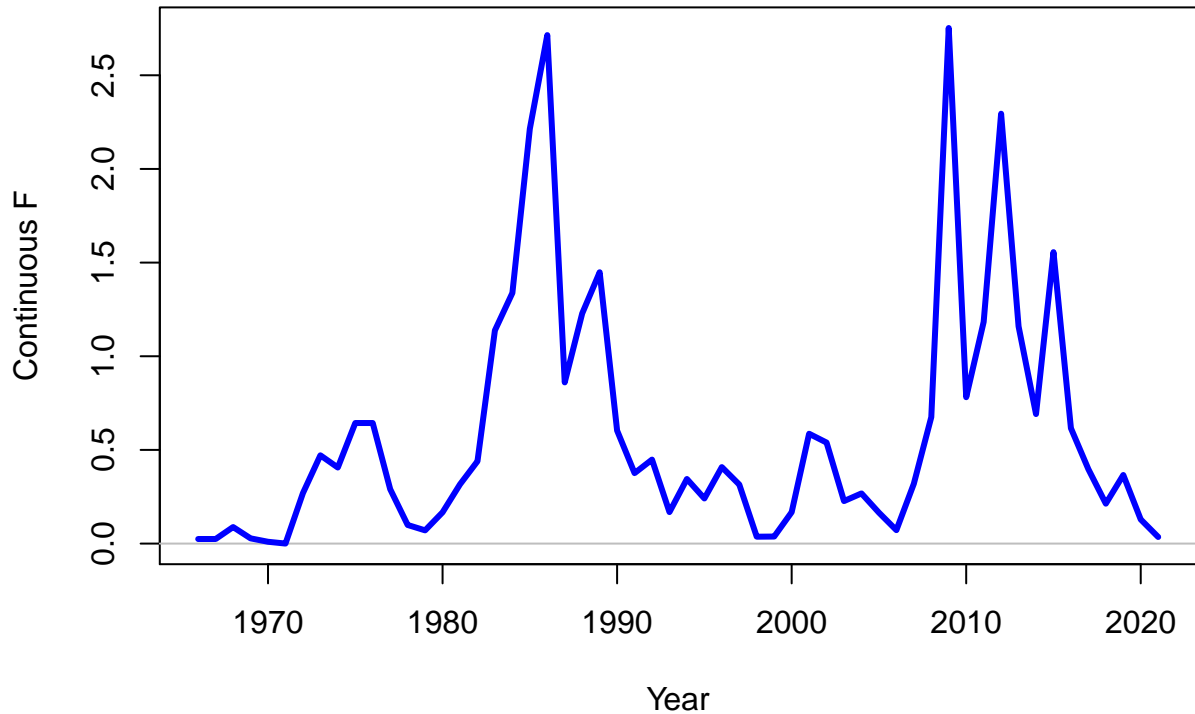
1967

Landings (mt)

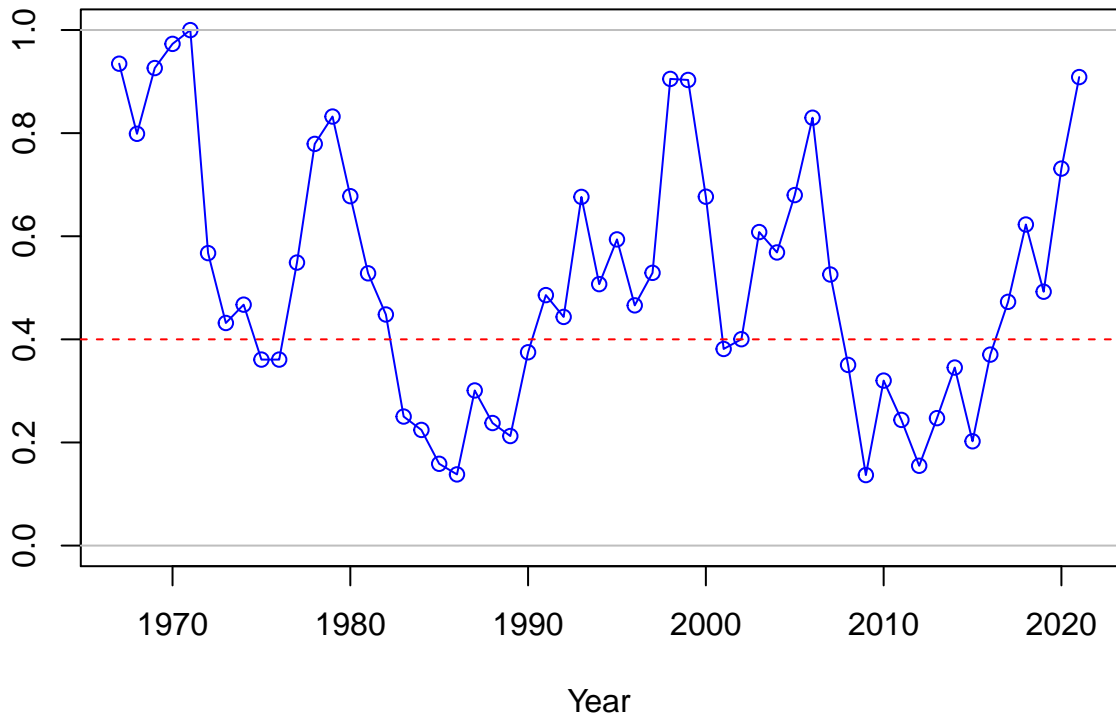




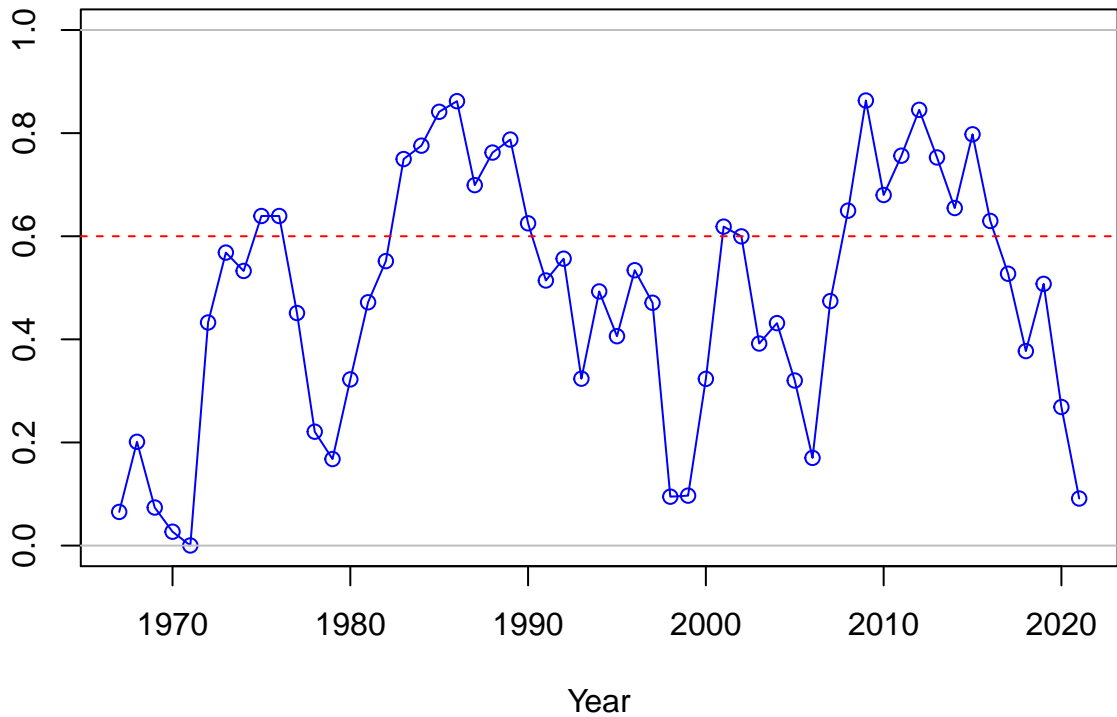




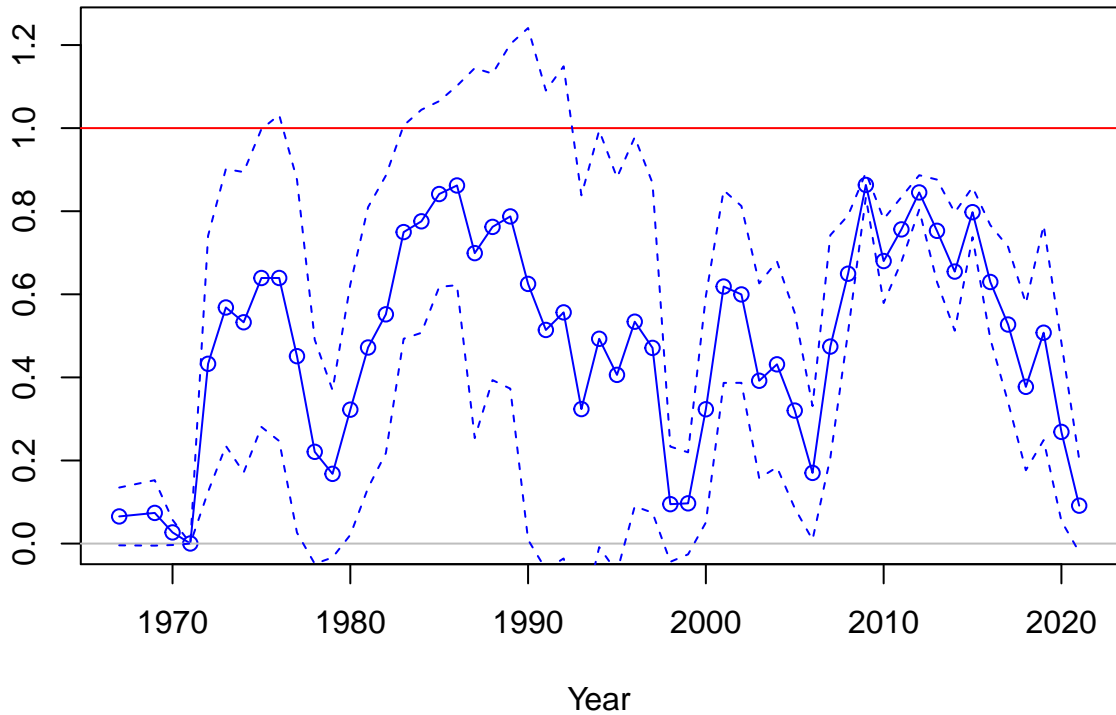
SPR



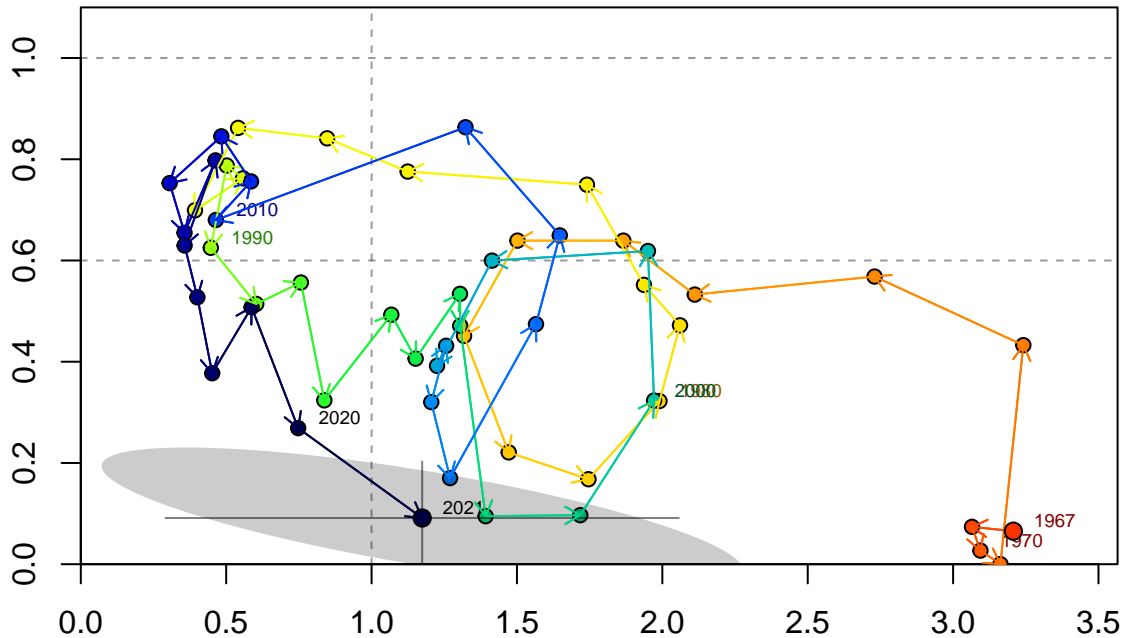
1-SPR



Fishing intensity: 1-SPR

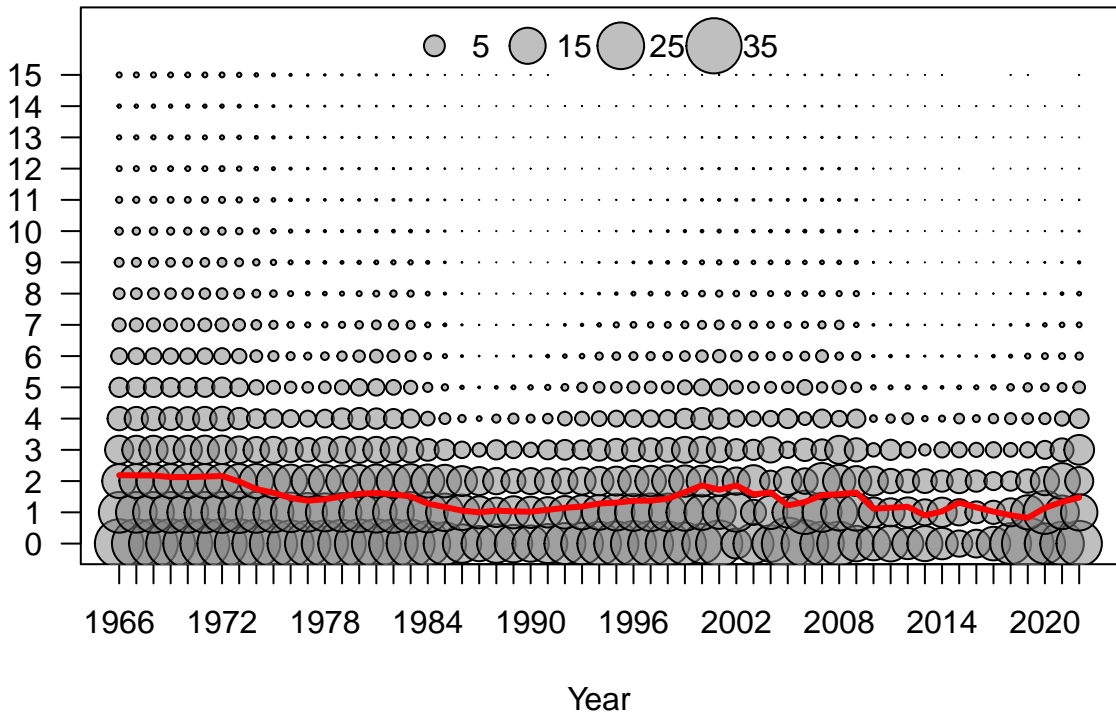


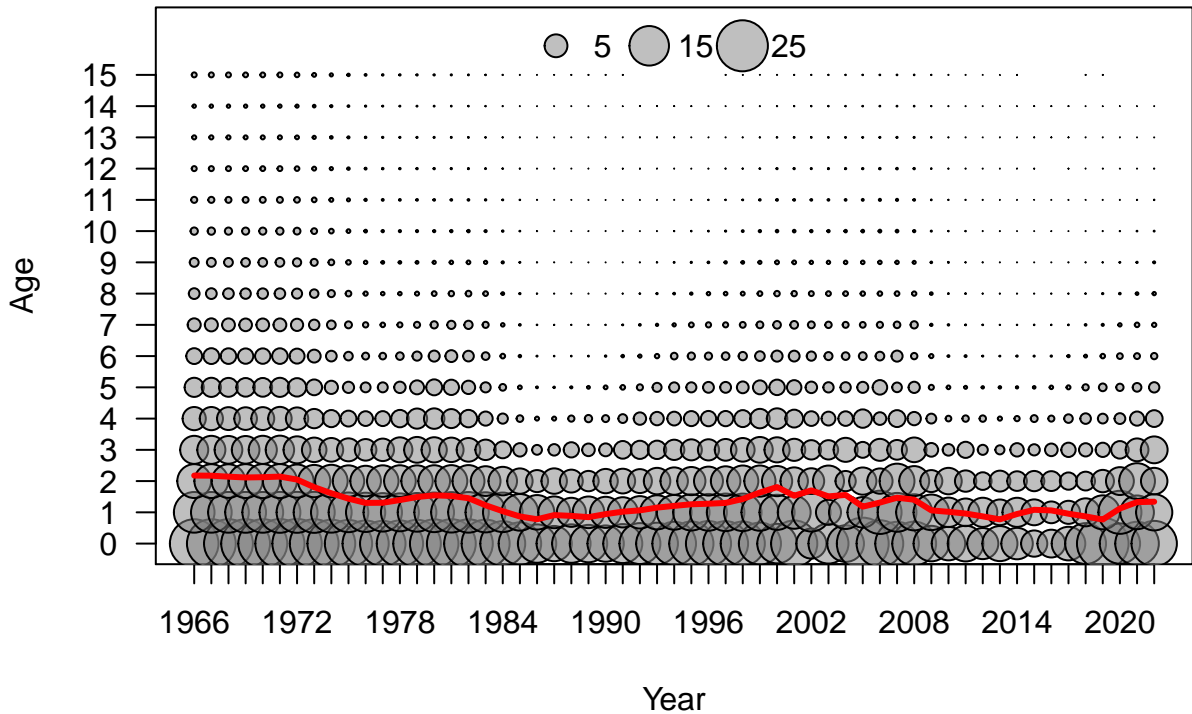
Fishing intensity: 1-SPR

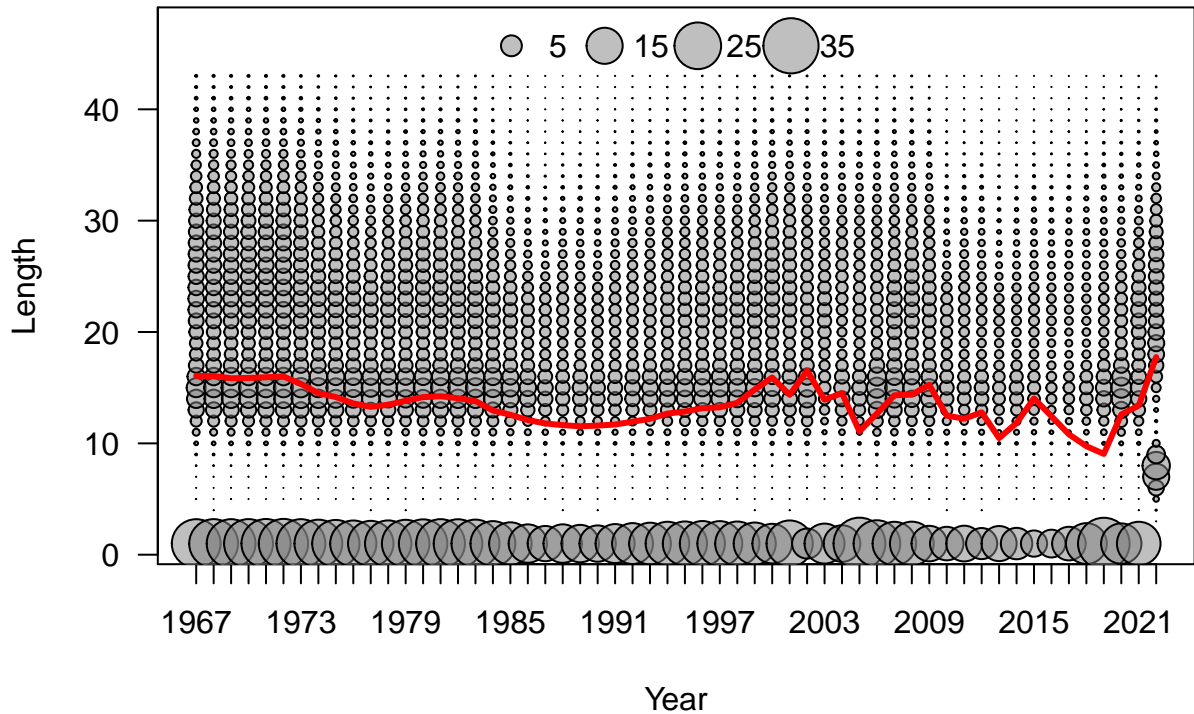


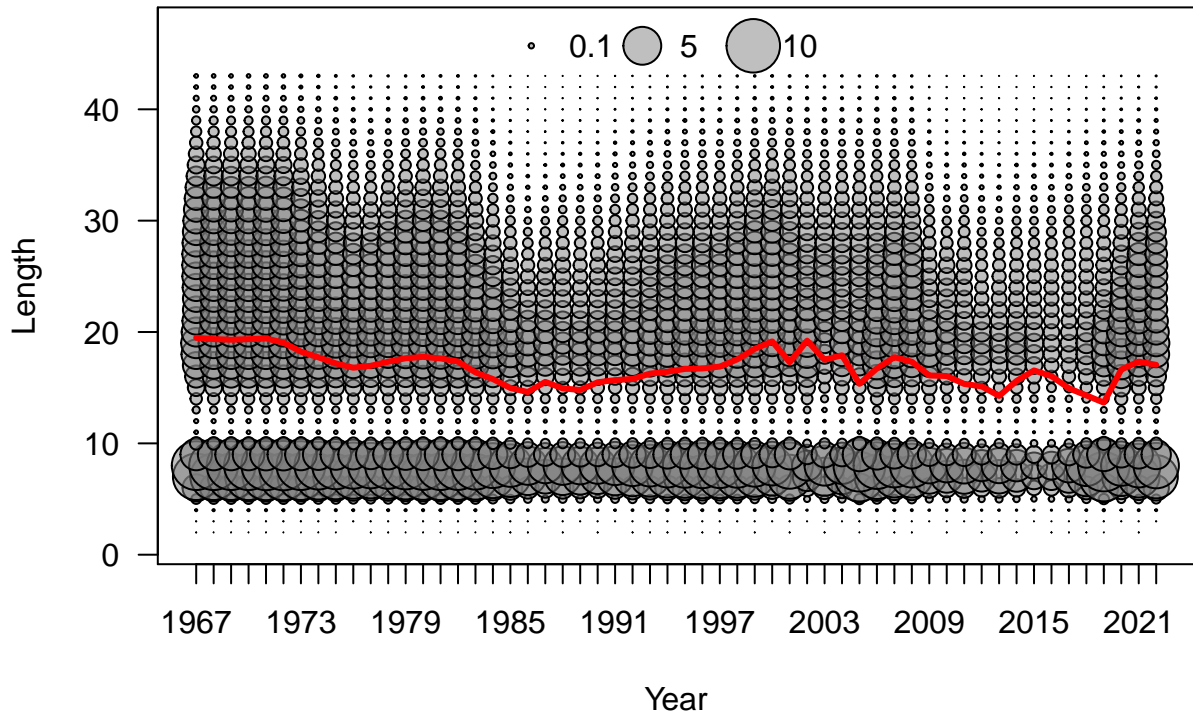
Relative spawning output: B/B_{MSY}

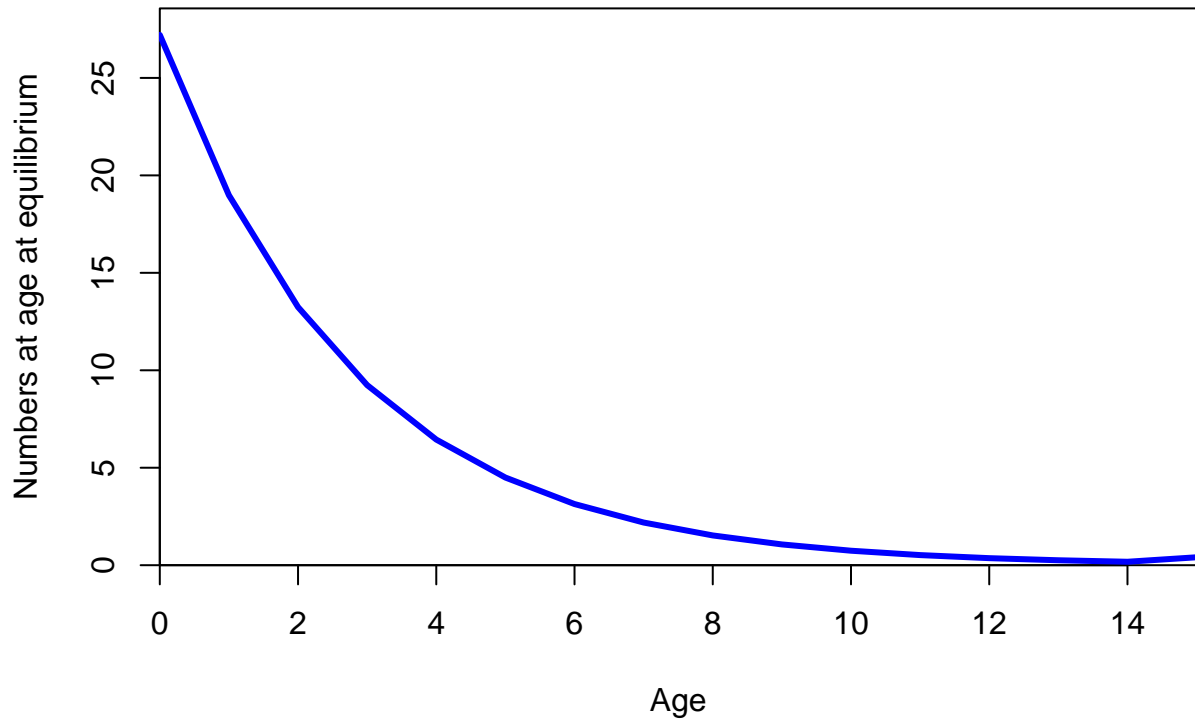
Age

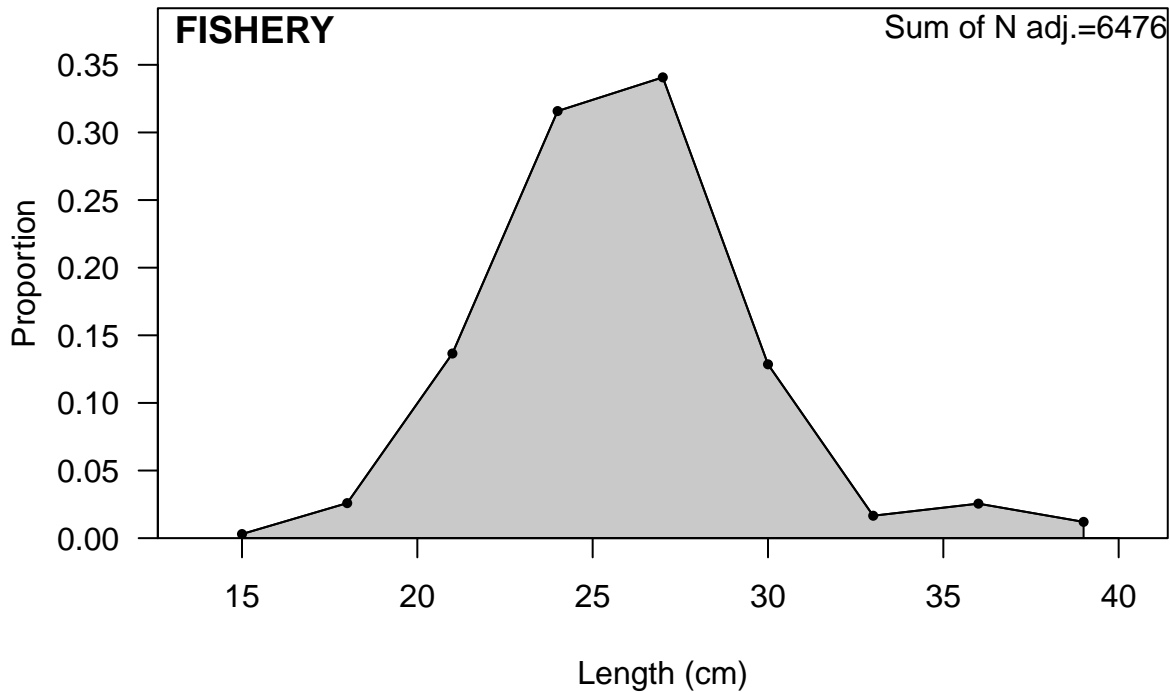


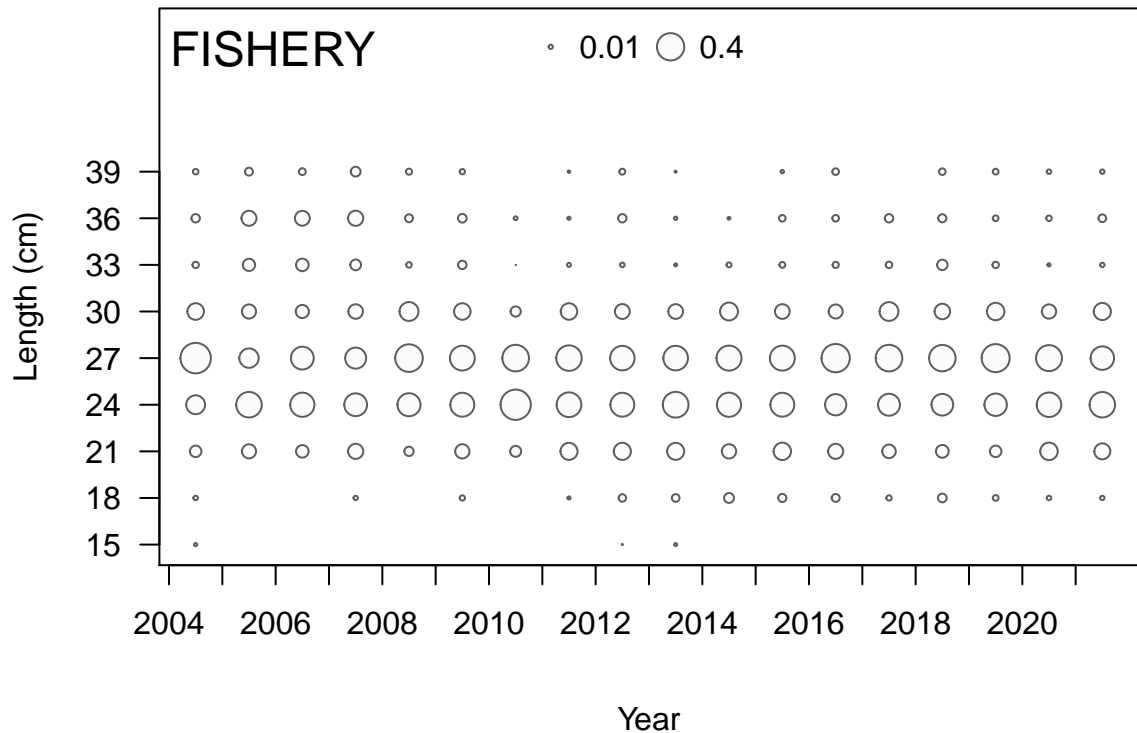




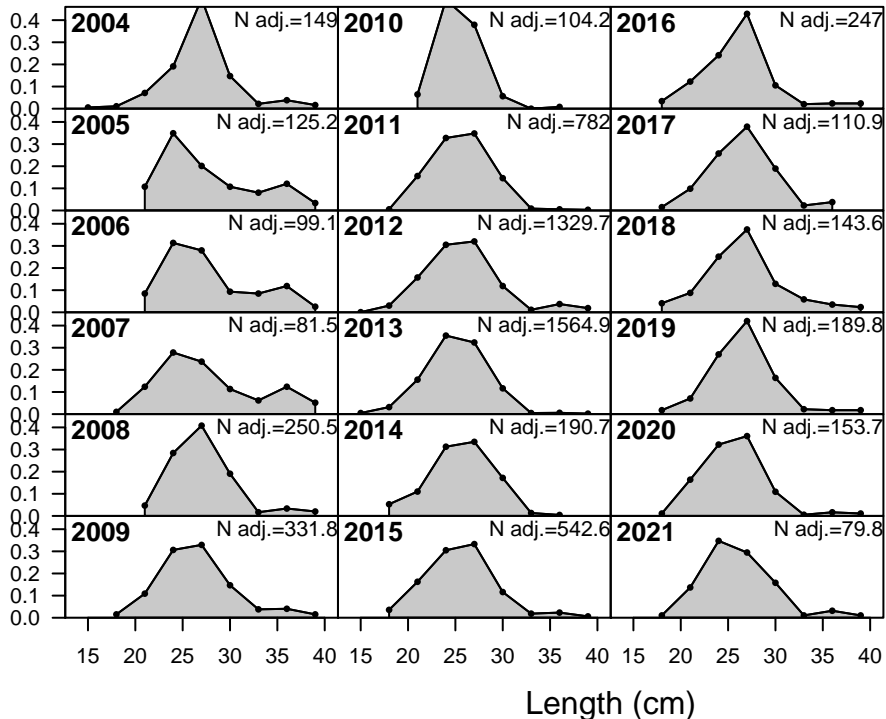


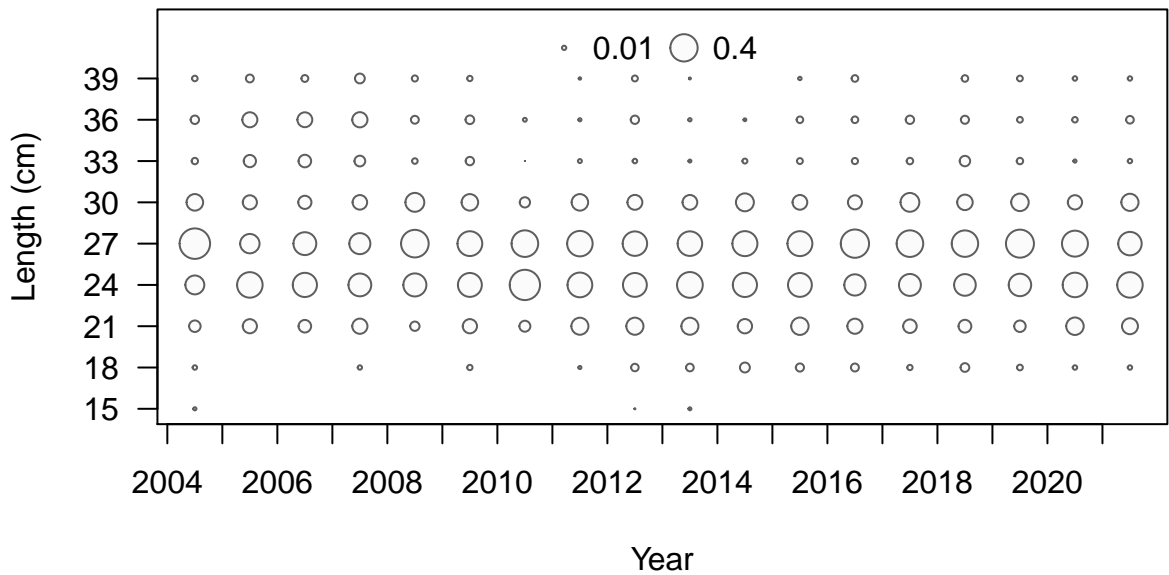




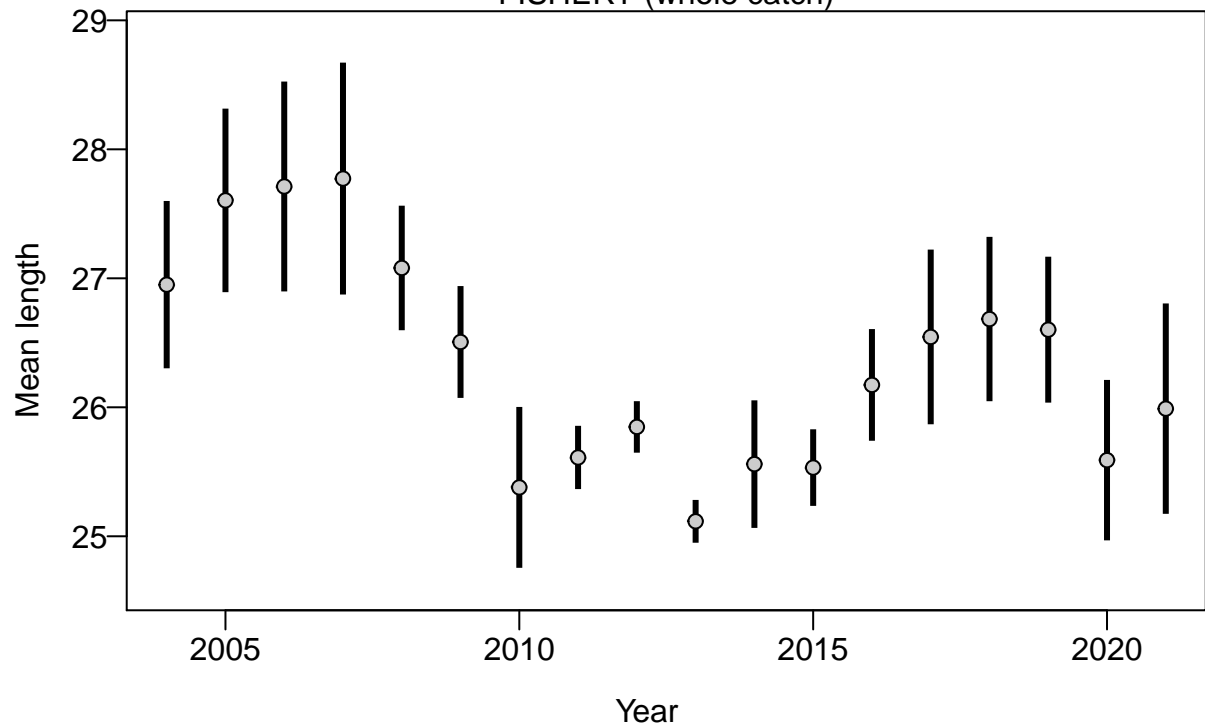


Proportion



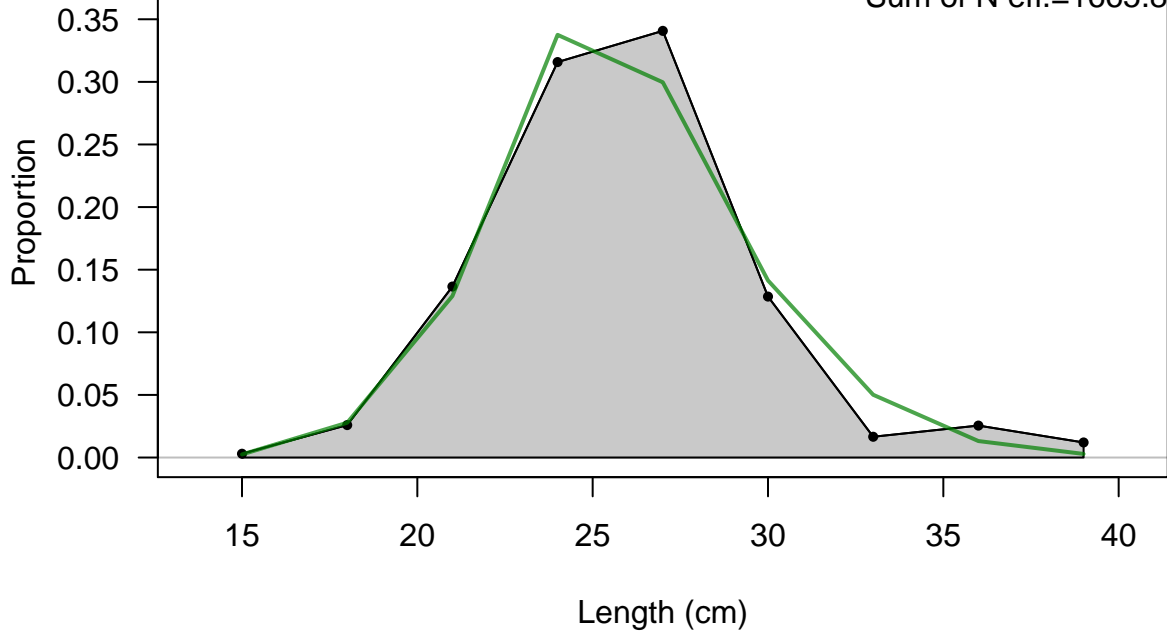


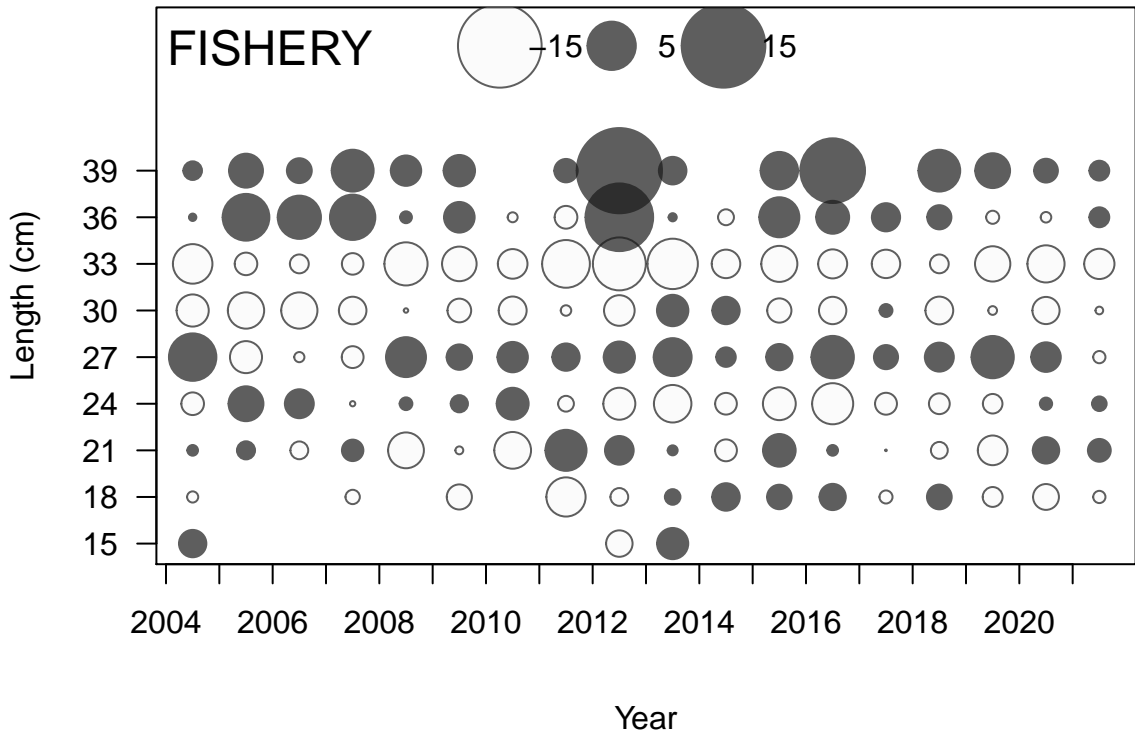
FISHERY (whole catch)



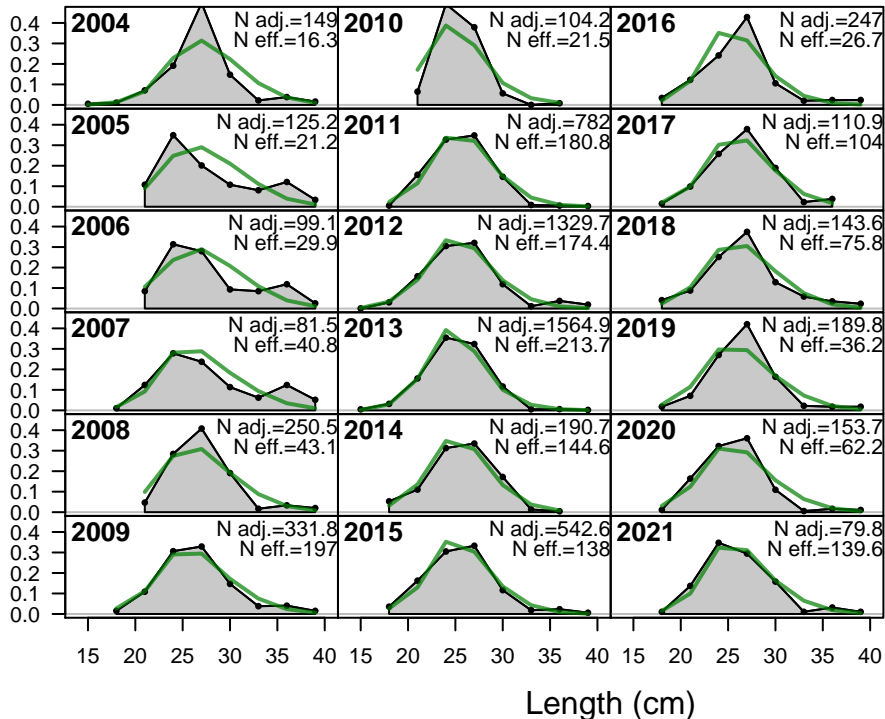
FISHERY

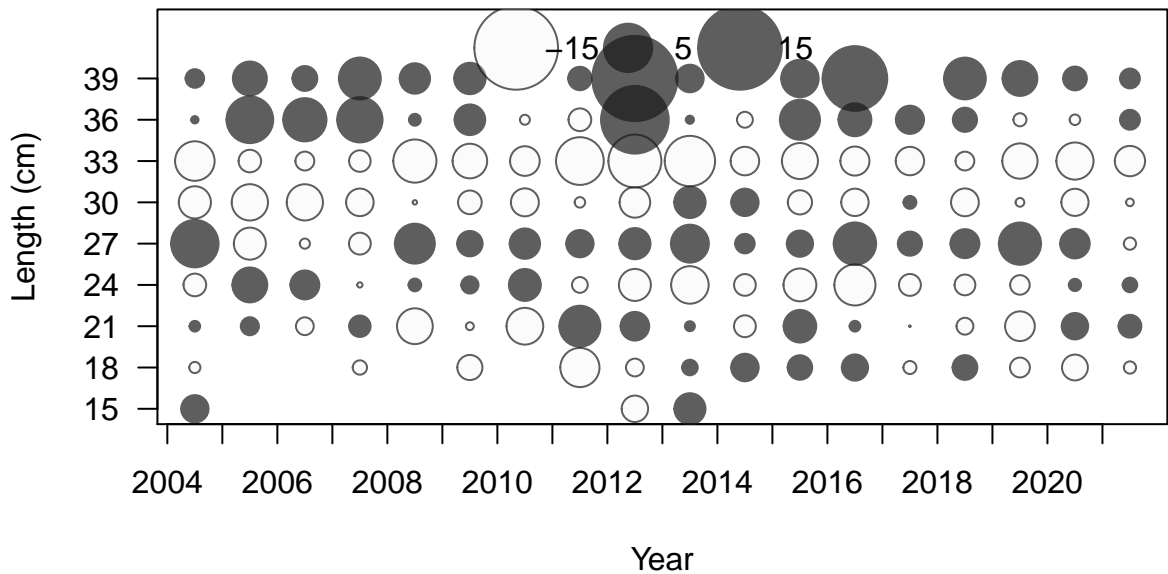
Sum of N adj.=6476
Sum of N eff.=1665.8



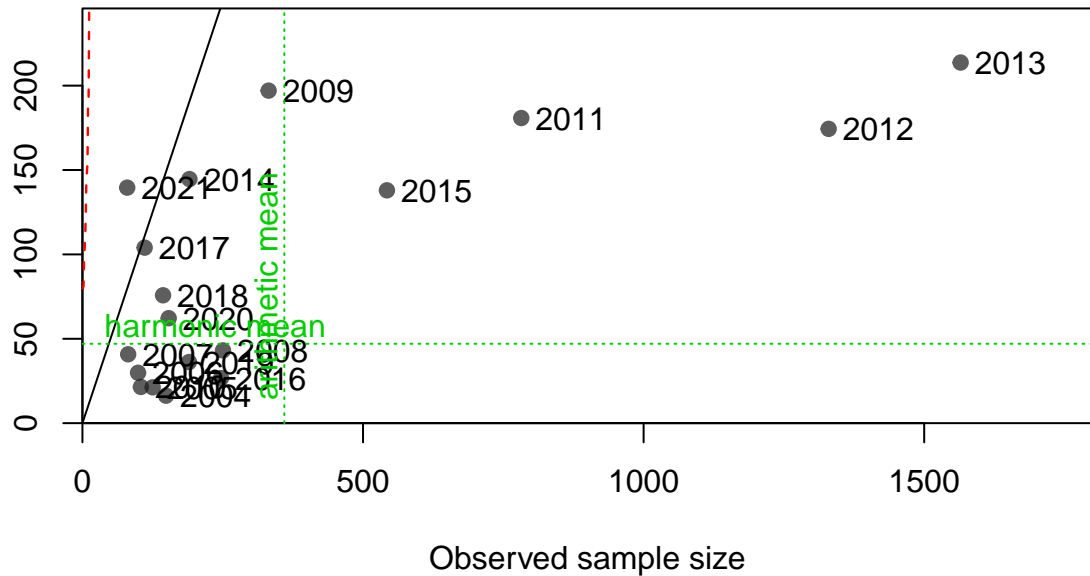


Proportion

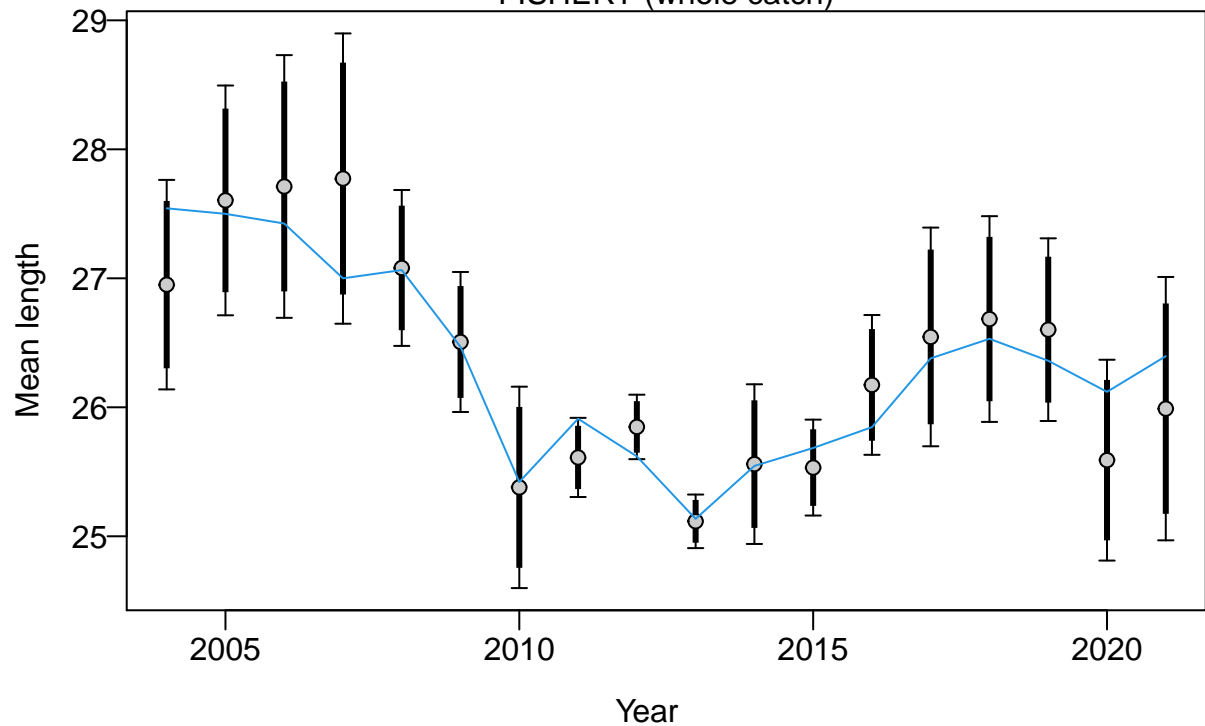


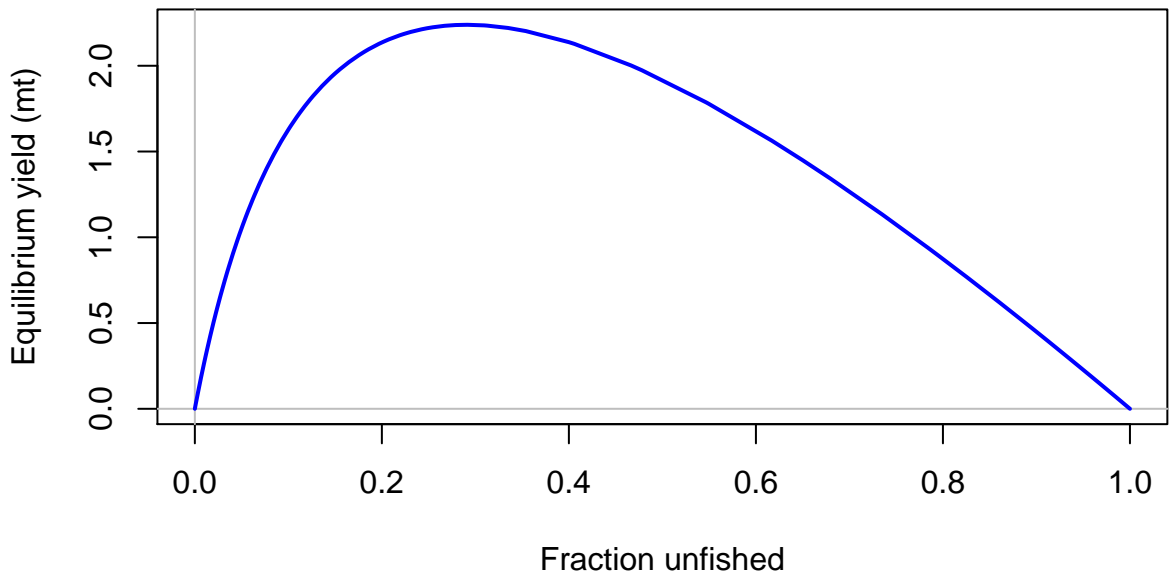


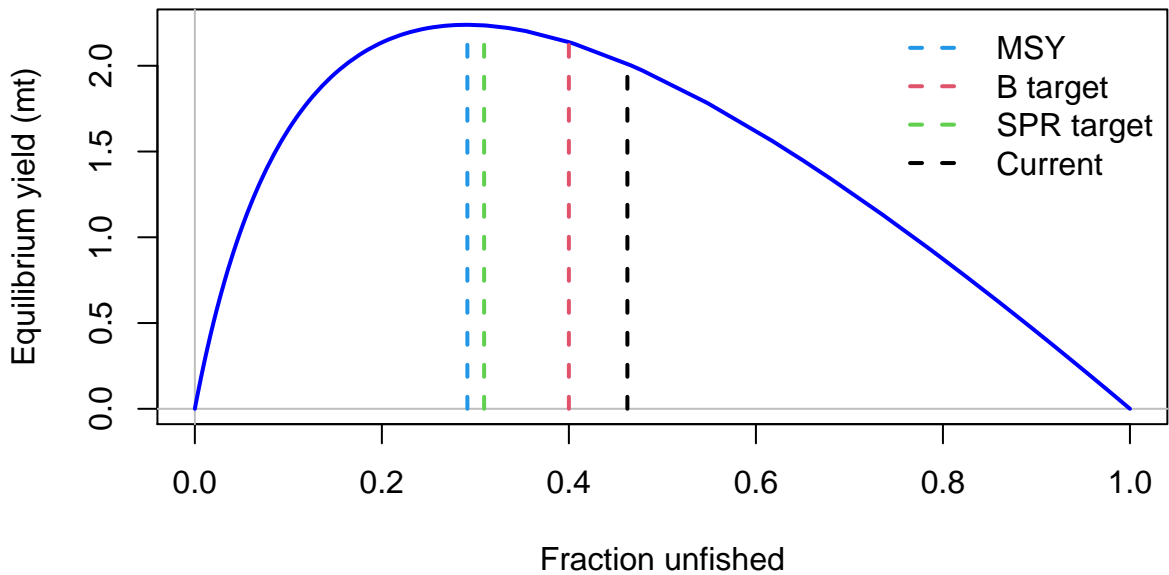
Effective sample size

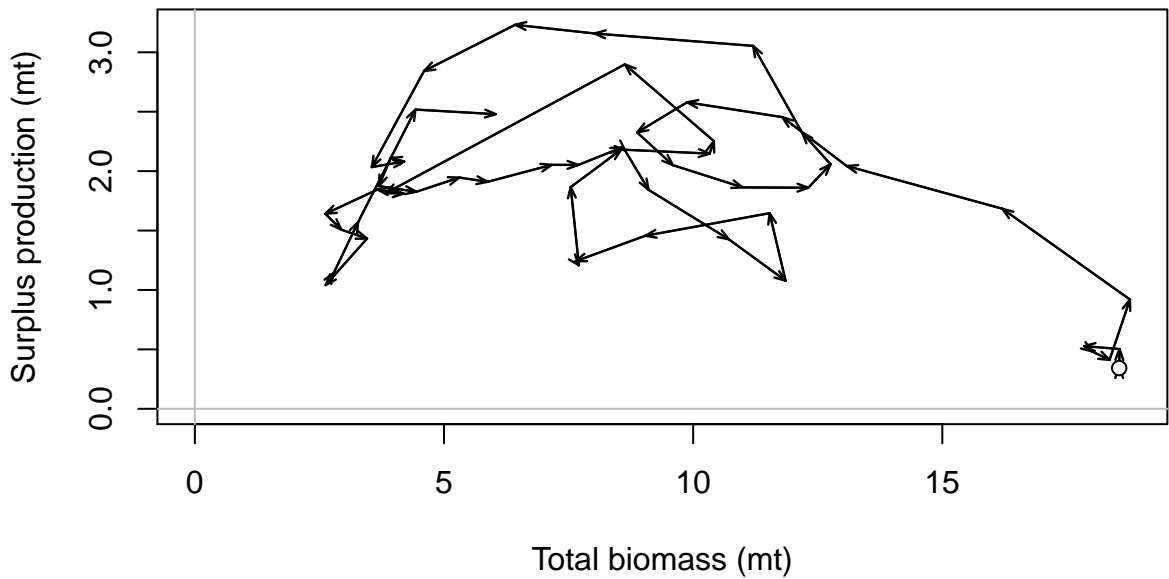


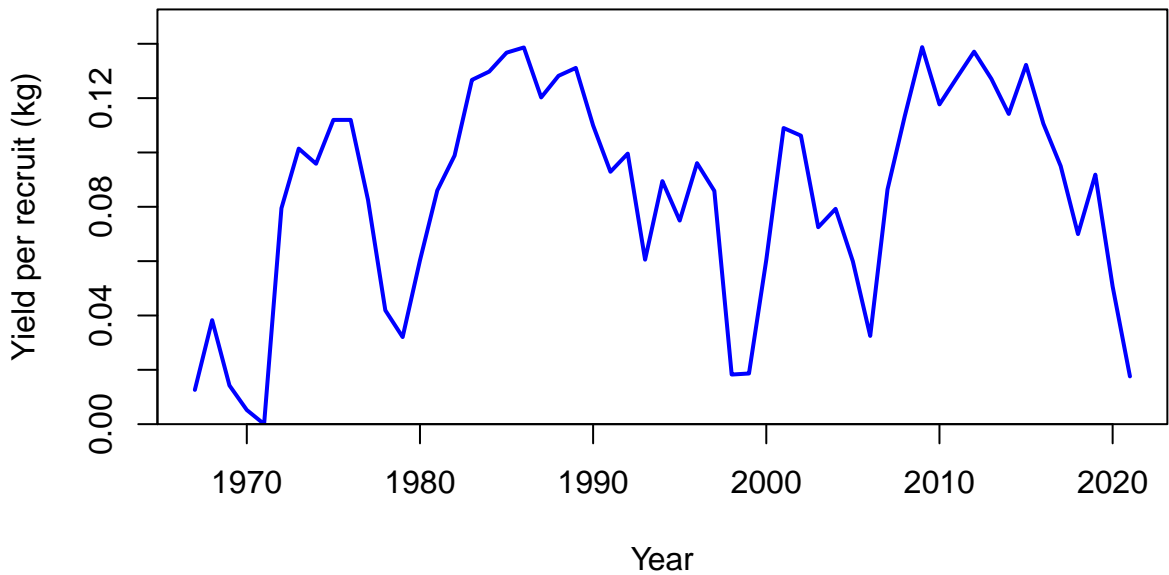
FISHERY (whole catch)

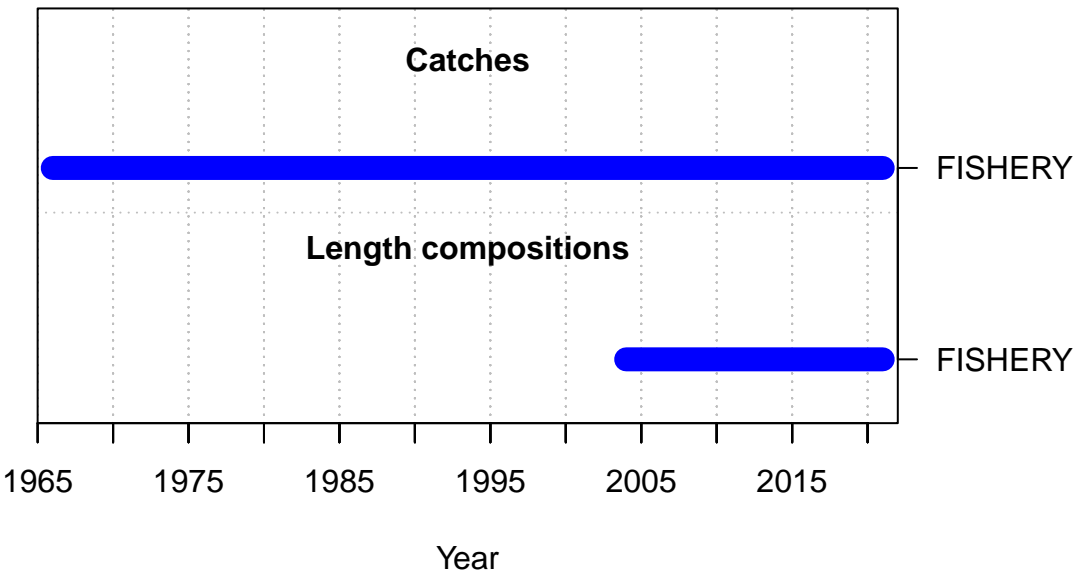


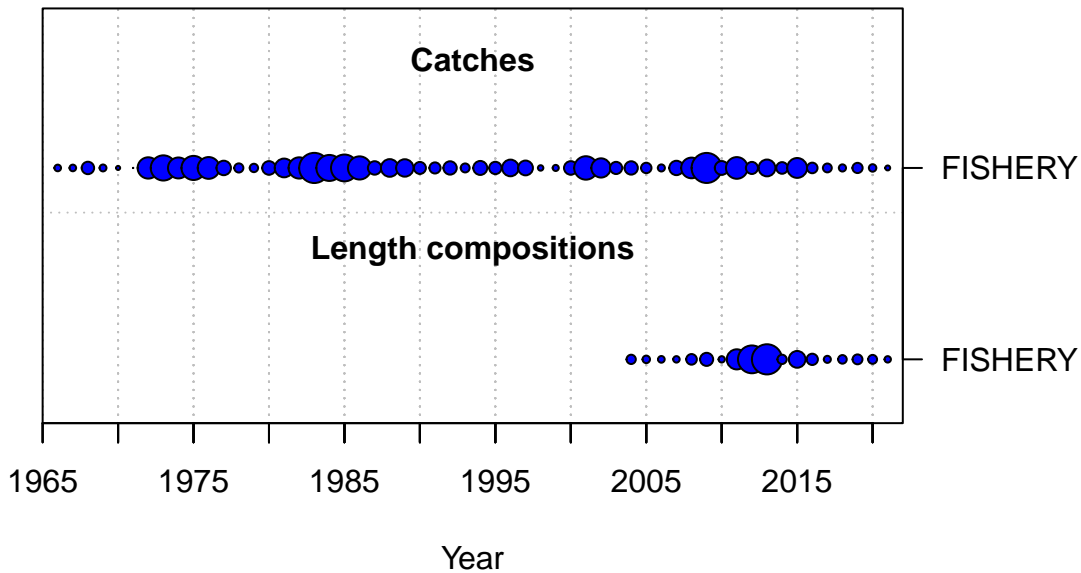




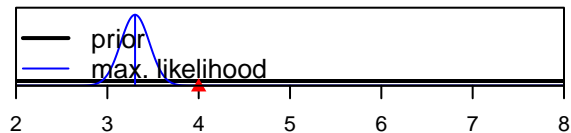




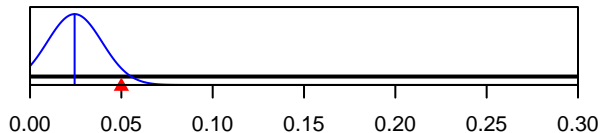




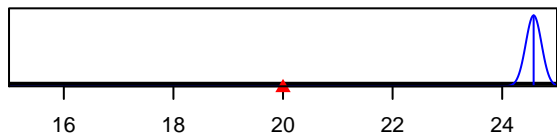
SR_LN(R0)



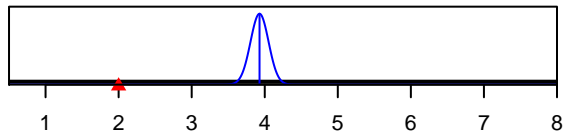
InitF_seas_1flt_1FISHERY



Size_inflection_FISHERY(1)



Size_95%width_FISHERY(1)



Parameter value