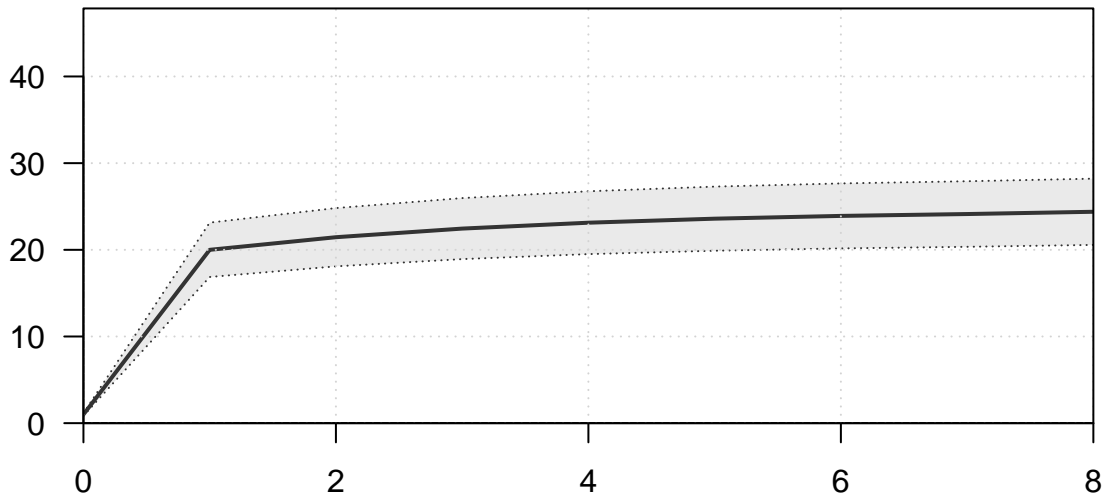
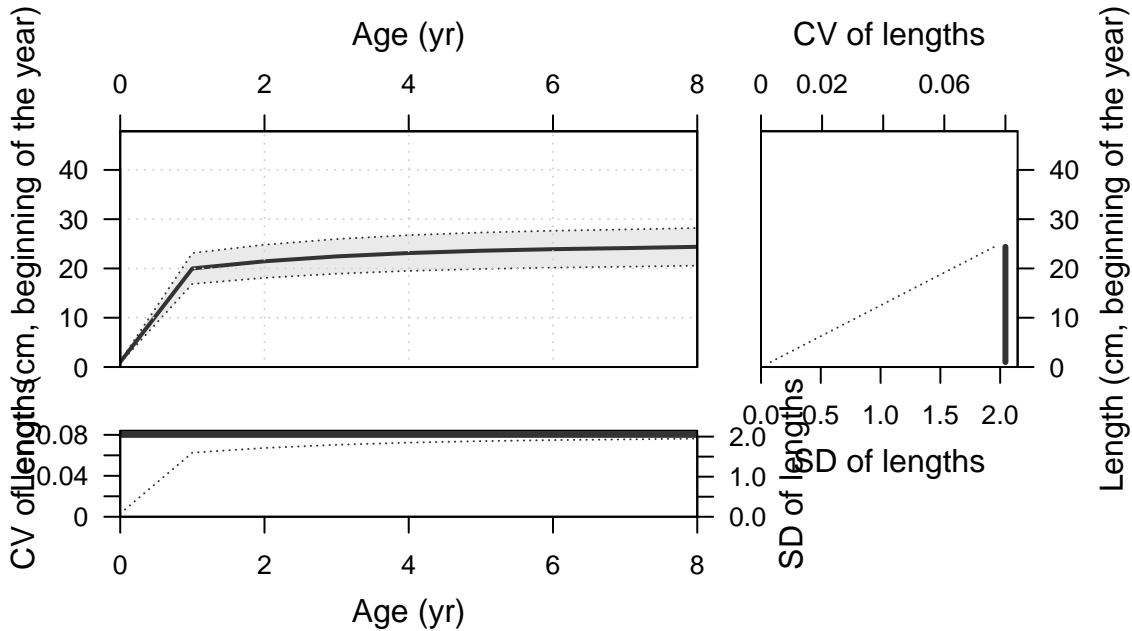


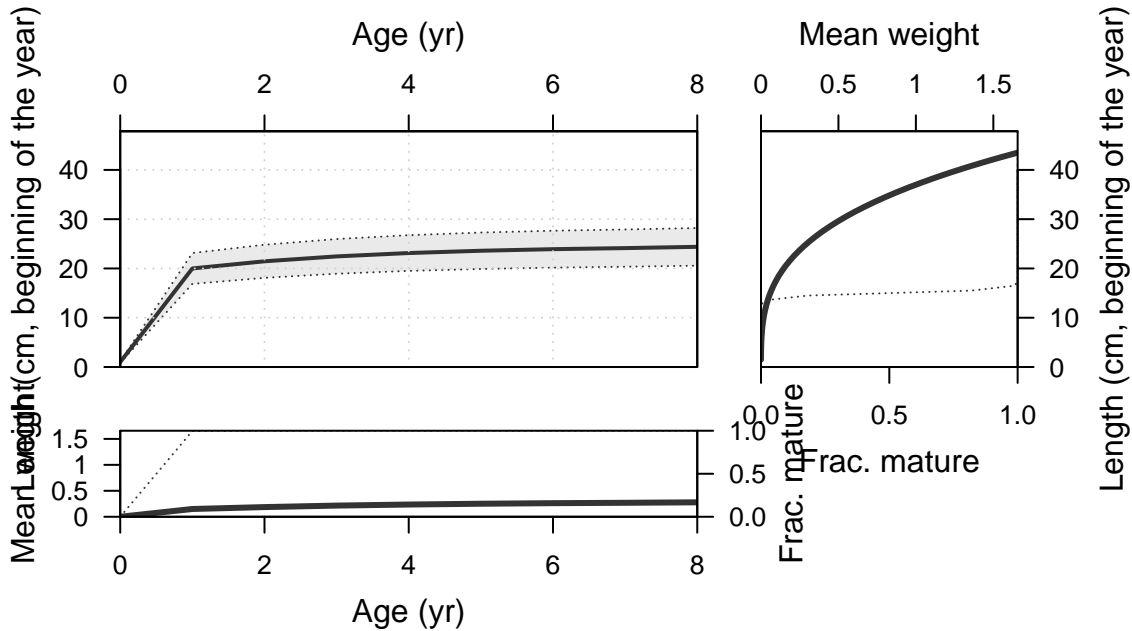
Plots created using the 'r4ss' package in R
Stock Synthesis version: 3.30.19.0
StartTime: Wed Jul 27 16:28:28 2022
Data_File: data.ss
Control_File: control.ss

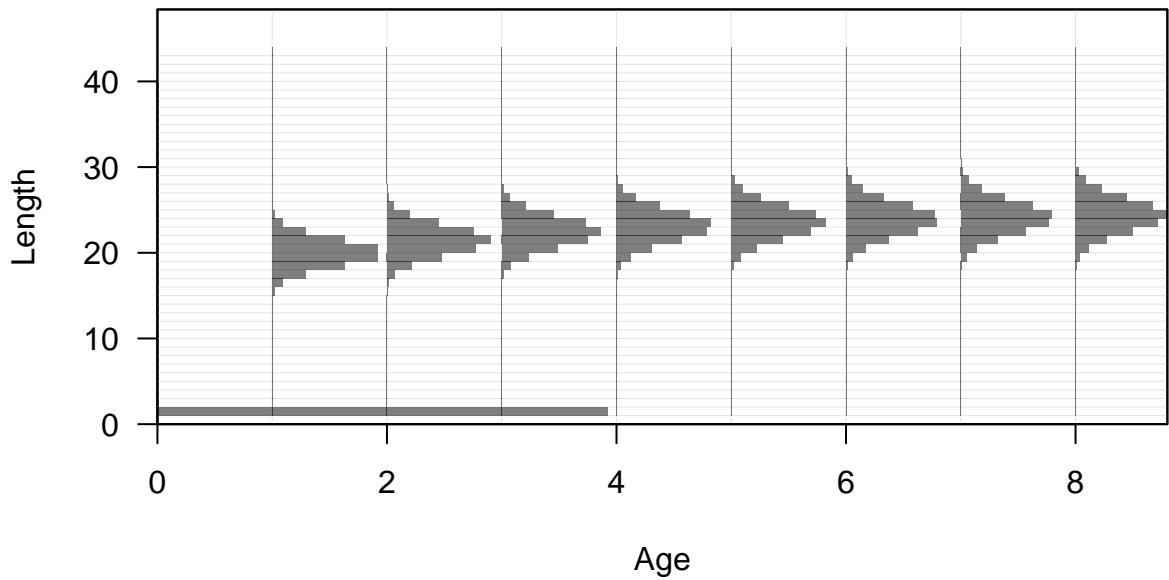
Length (cm, beginning of the year)

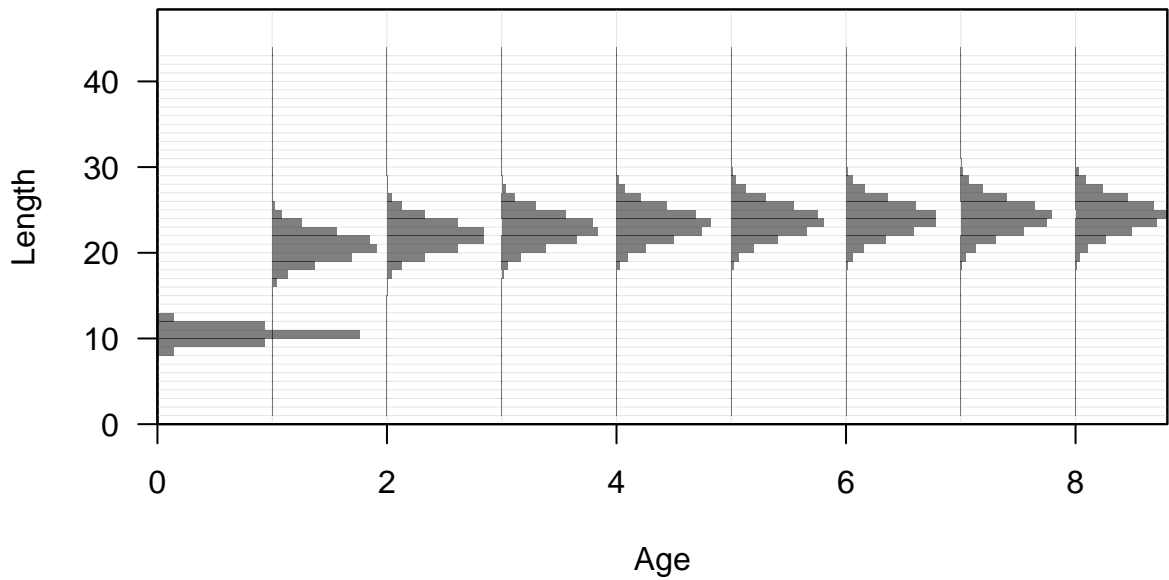


Age (yr)



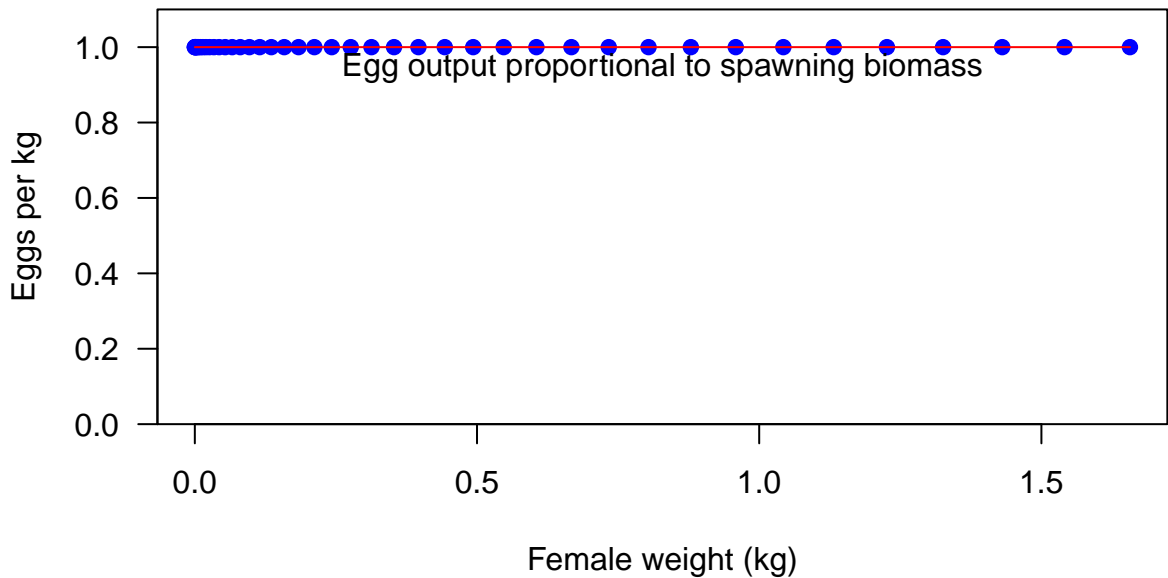


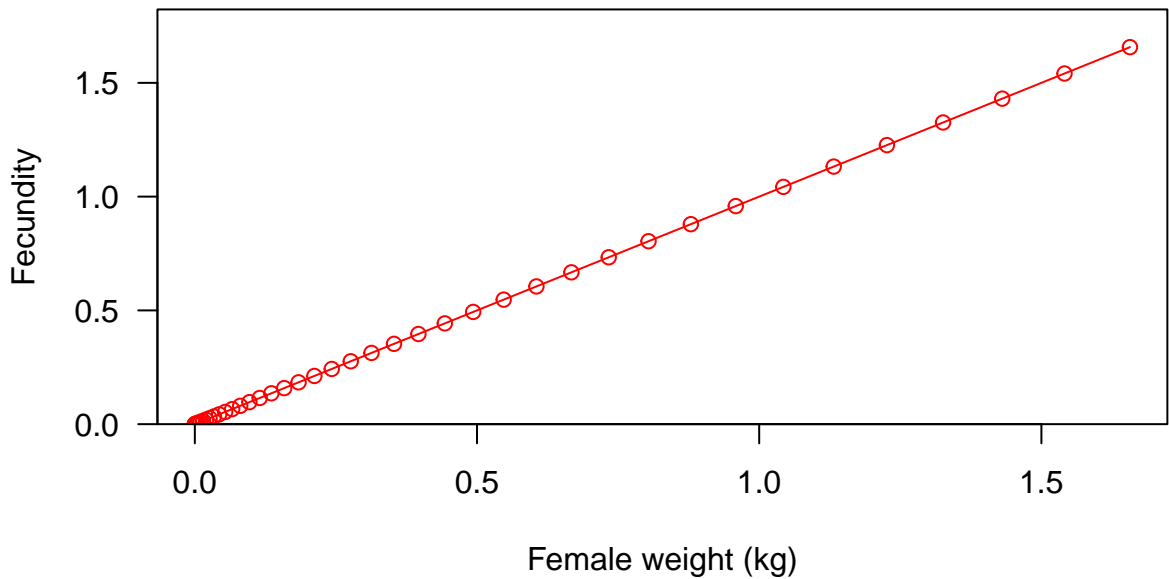






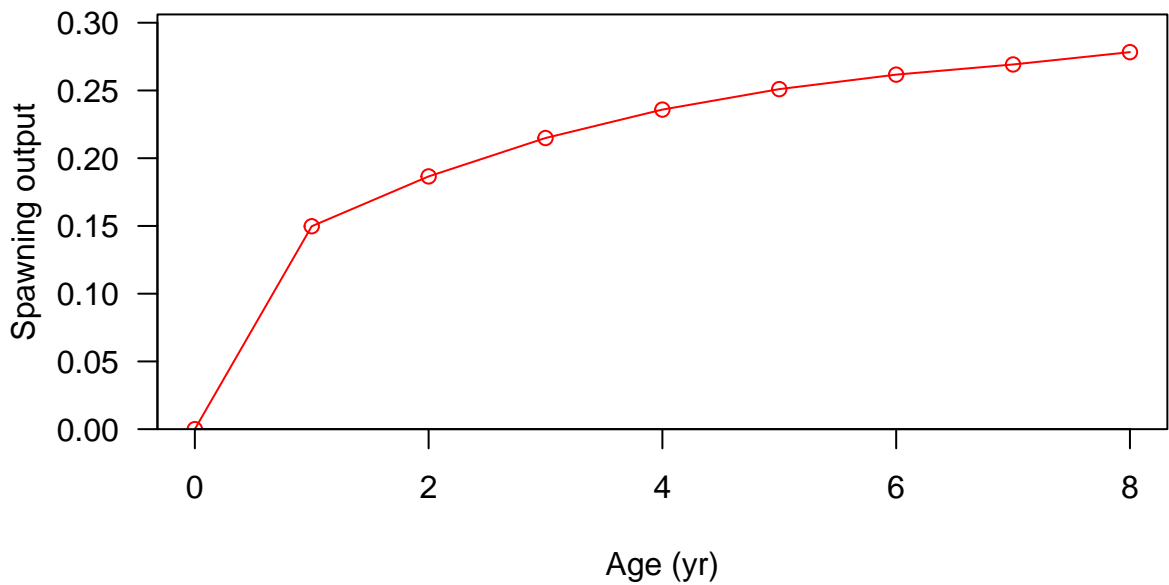




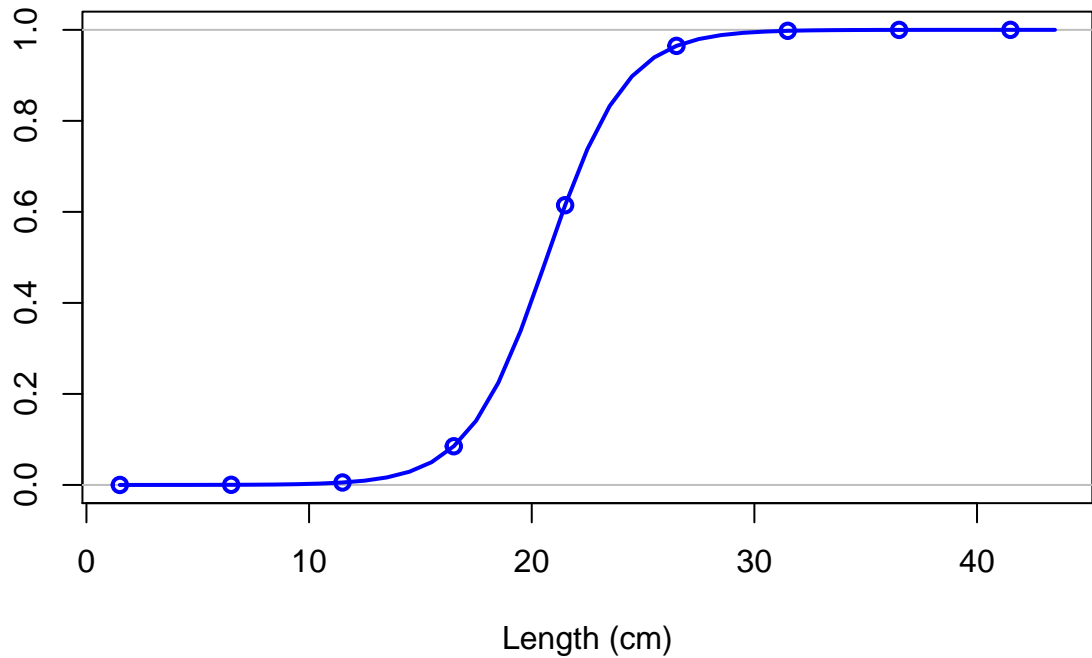




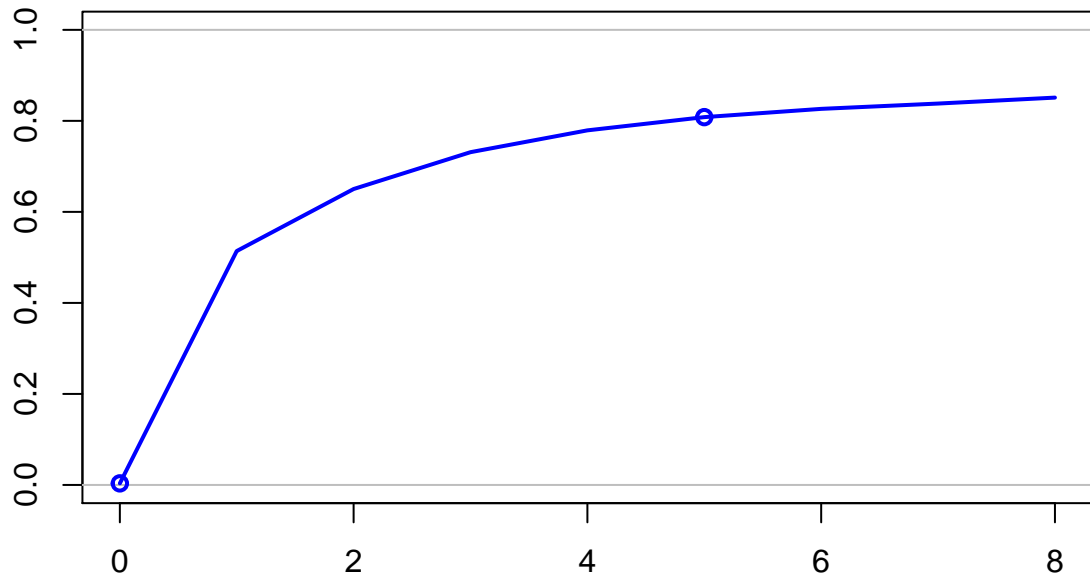




Selectivity

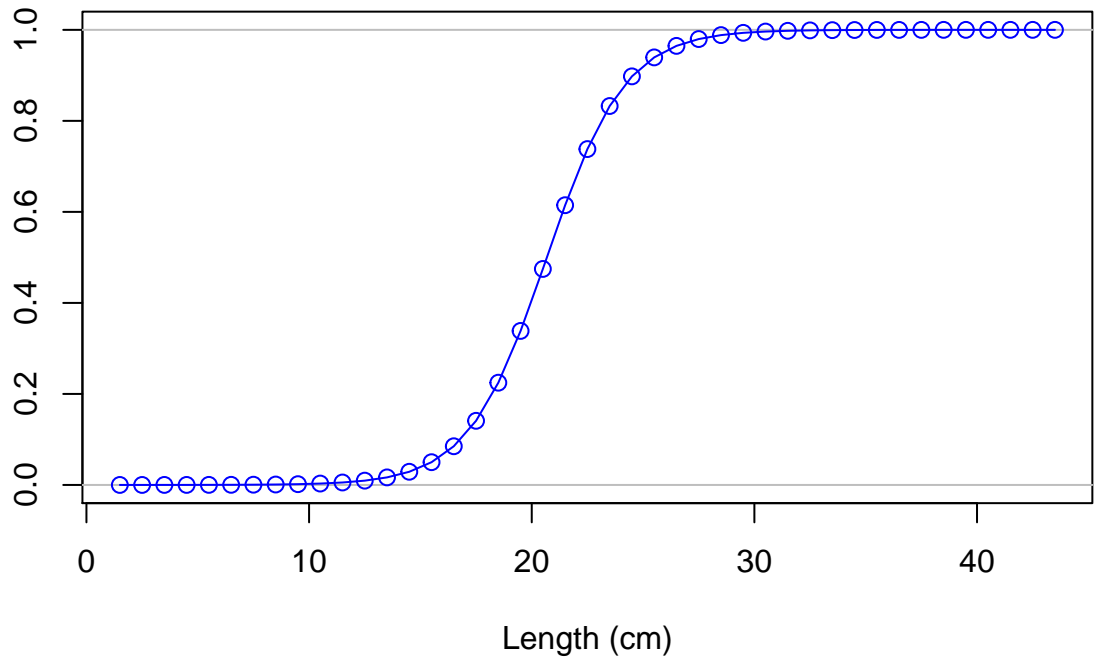


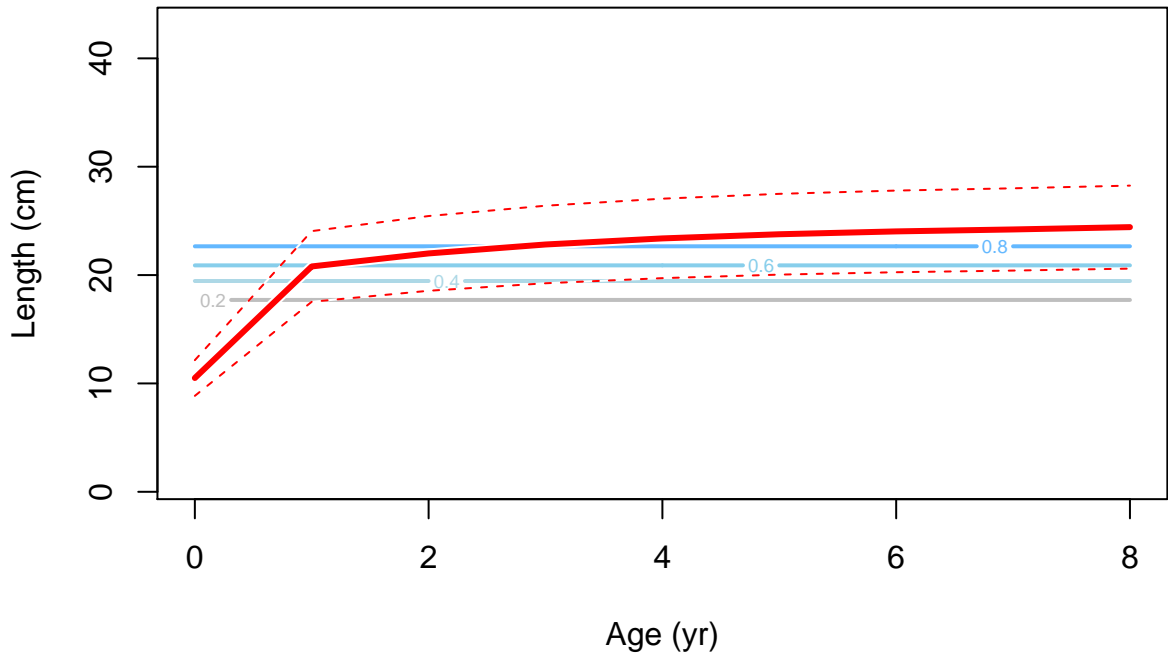
Selectivity



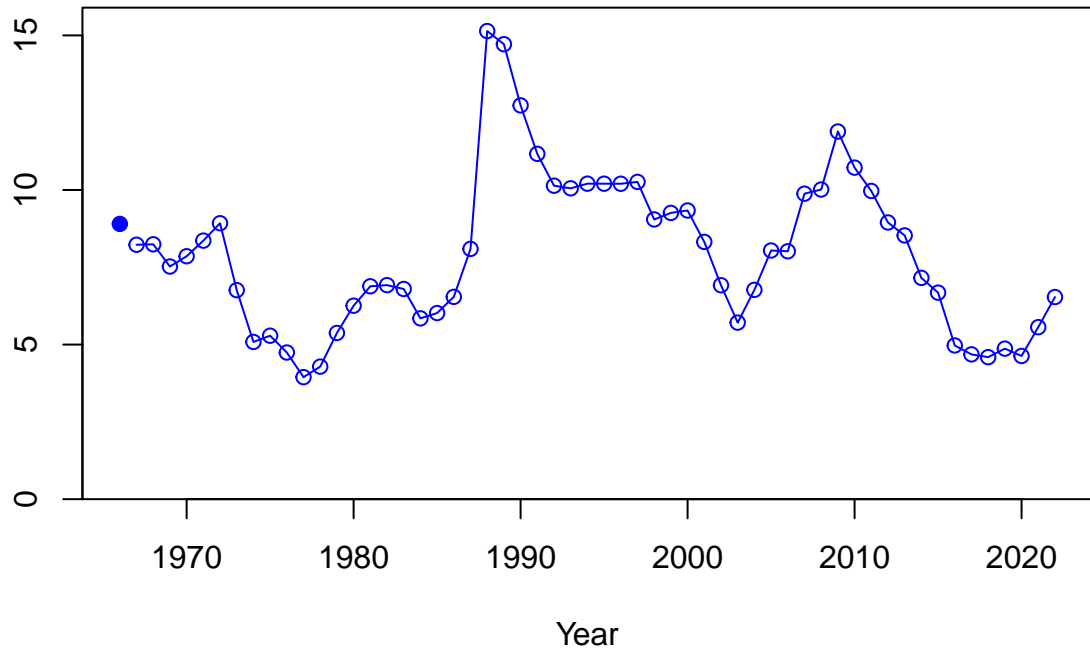
Age (yr)

Selectivity

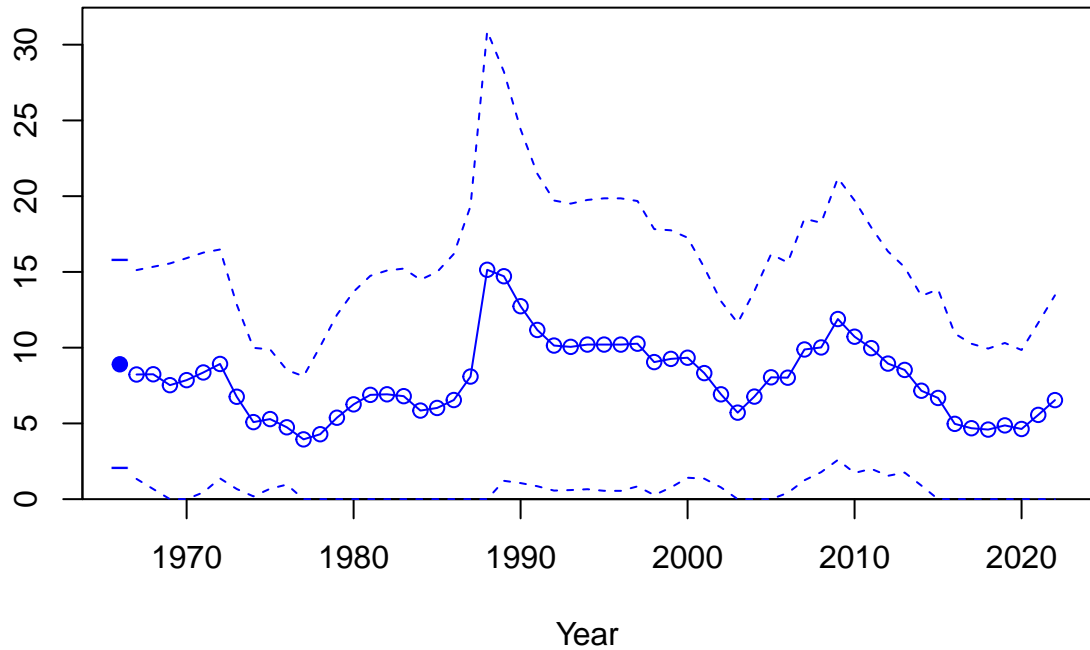




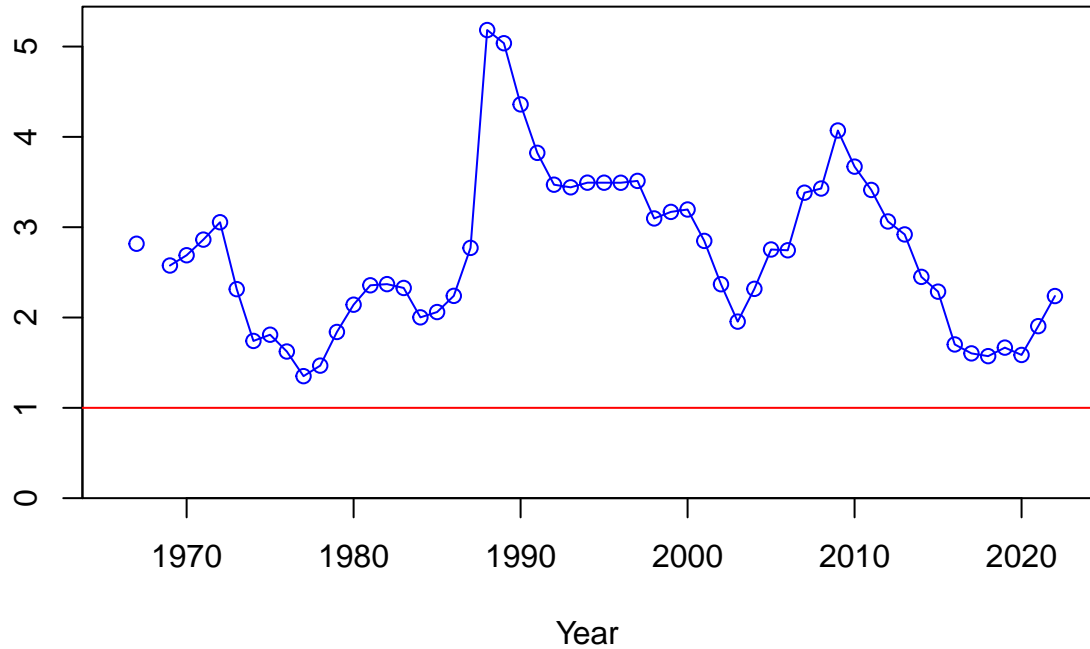
Spawning biomass (mt)



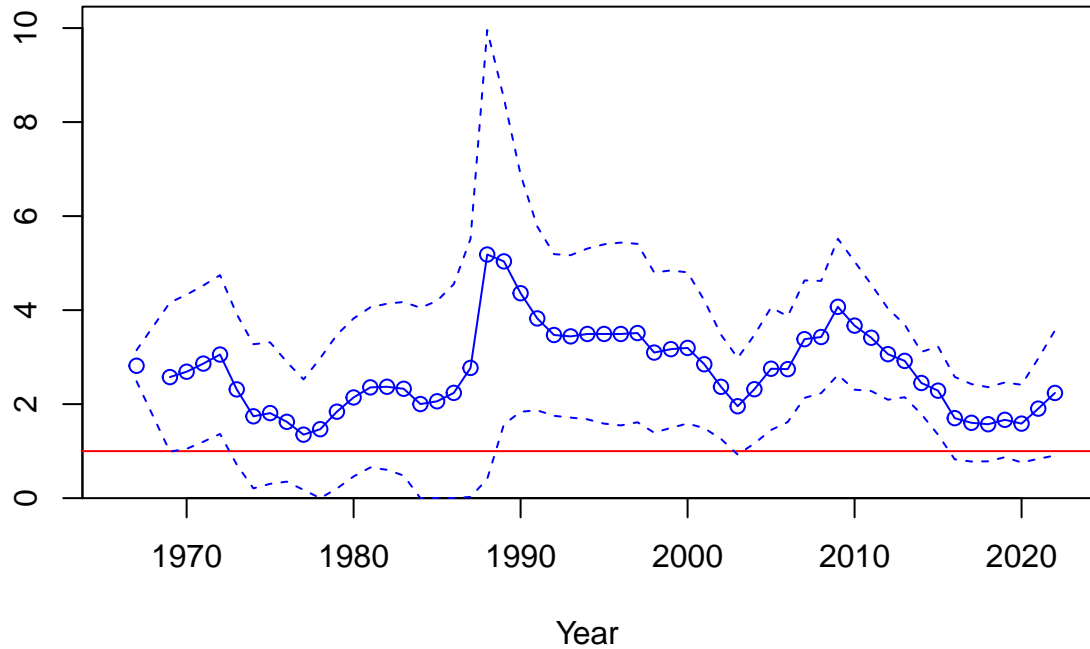
Spawning biomass (mt)

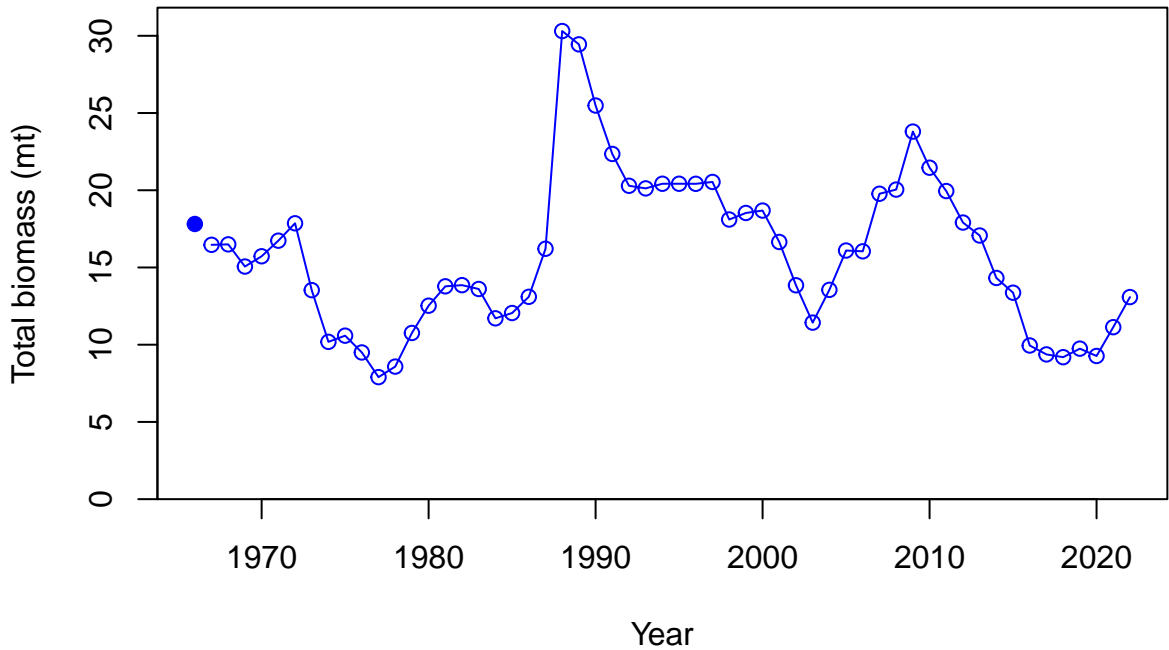


Relative spawning biomass: B/B_{MSY}

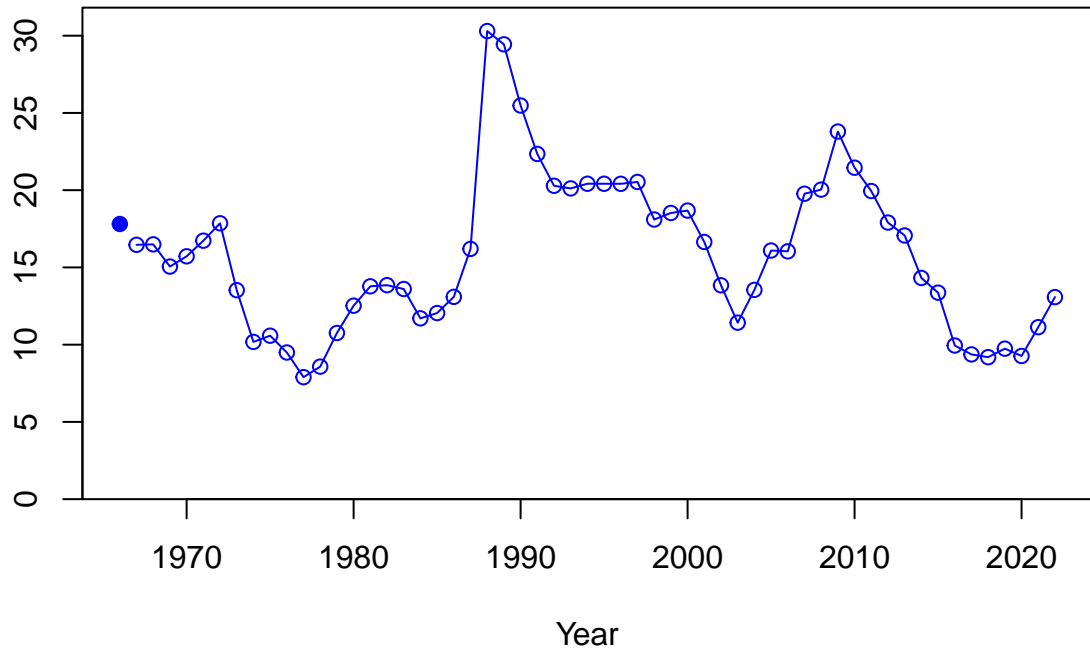


Relative spawning biomass: B/B_{MSY}

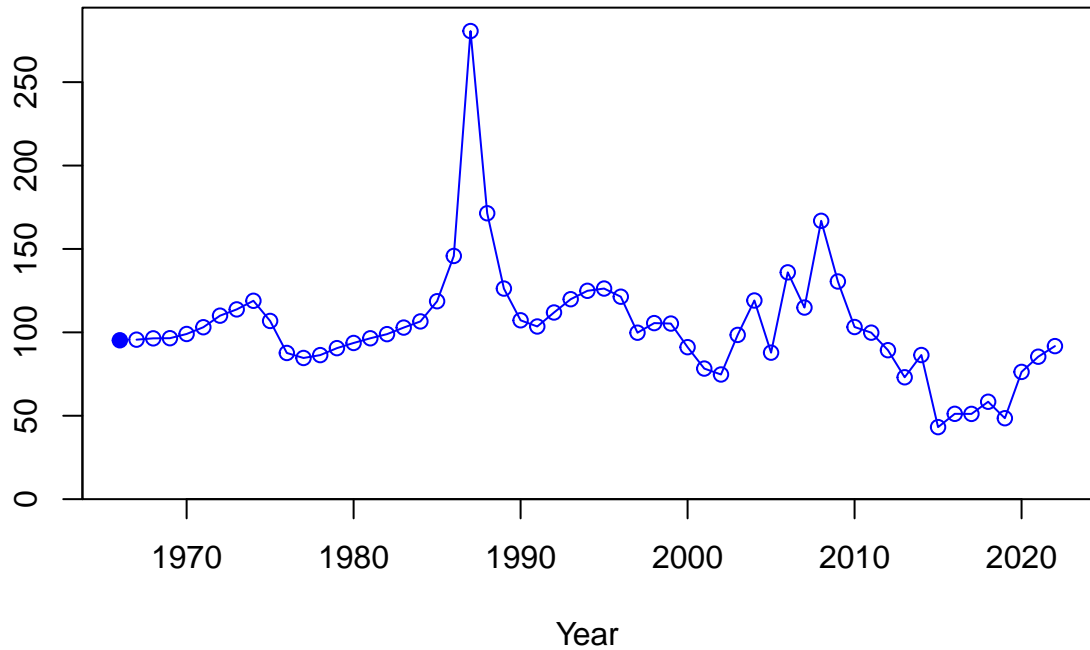


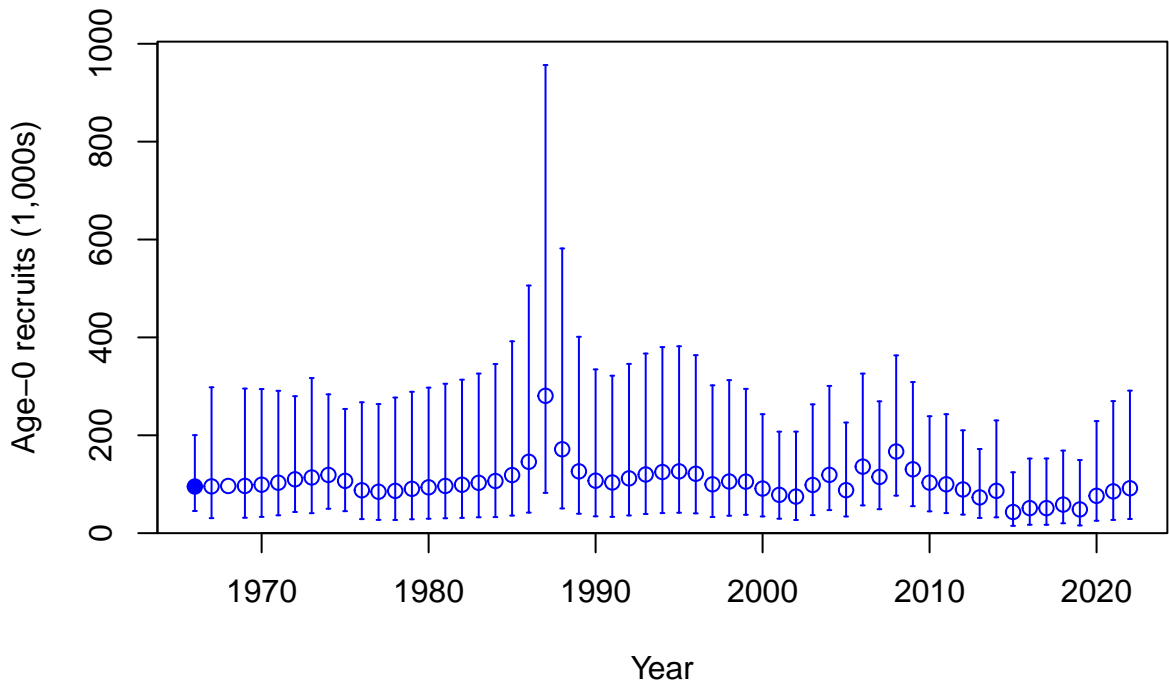


Summary biomass (mt)

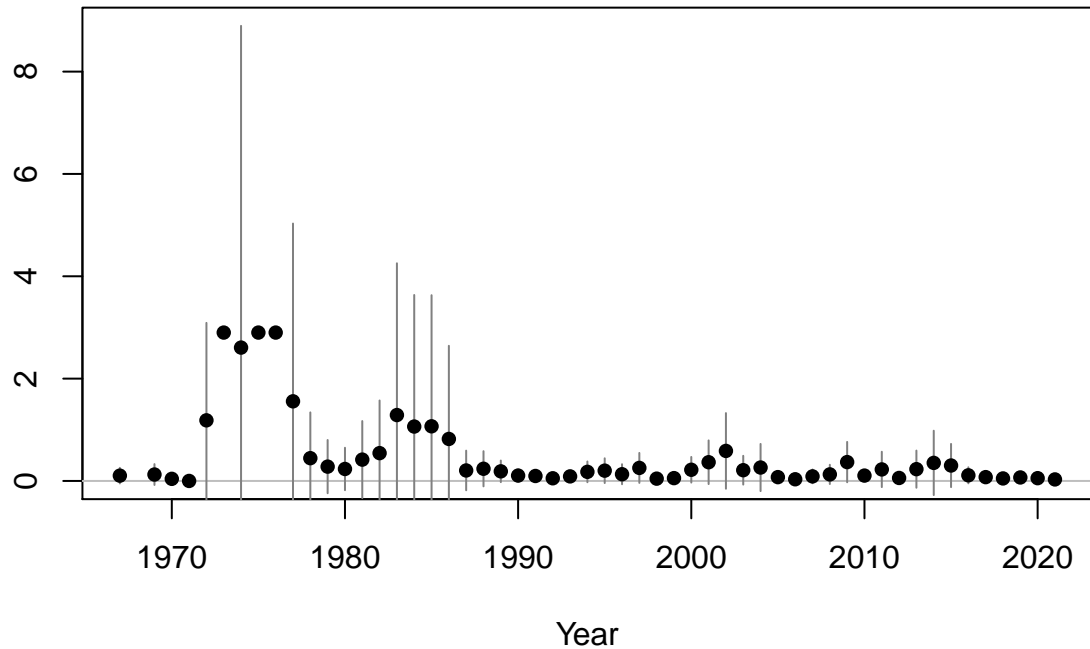


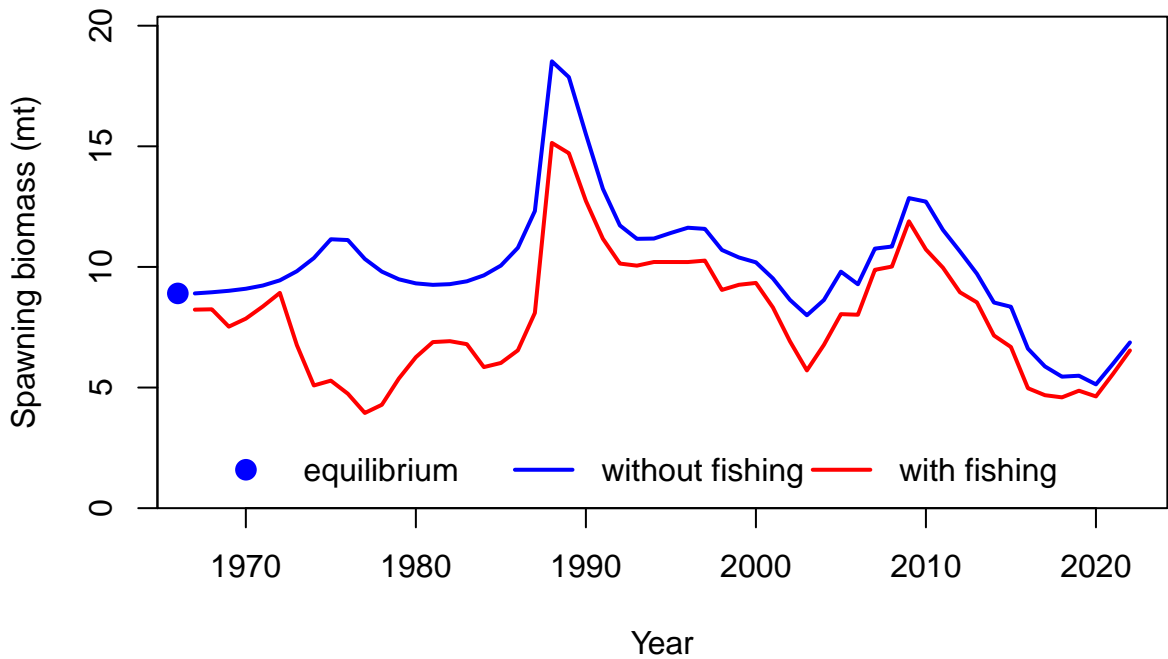
Age-0 recruits (1,000s)



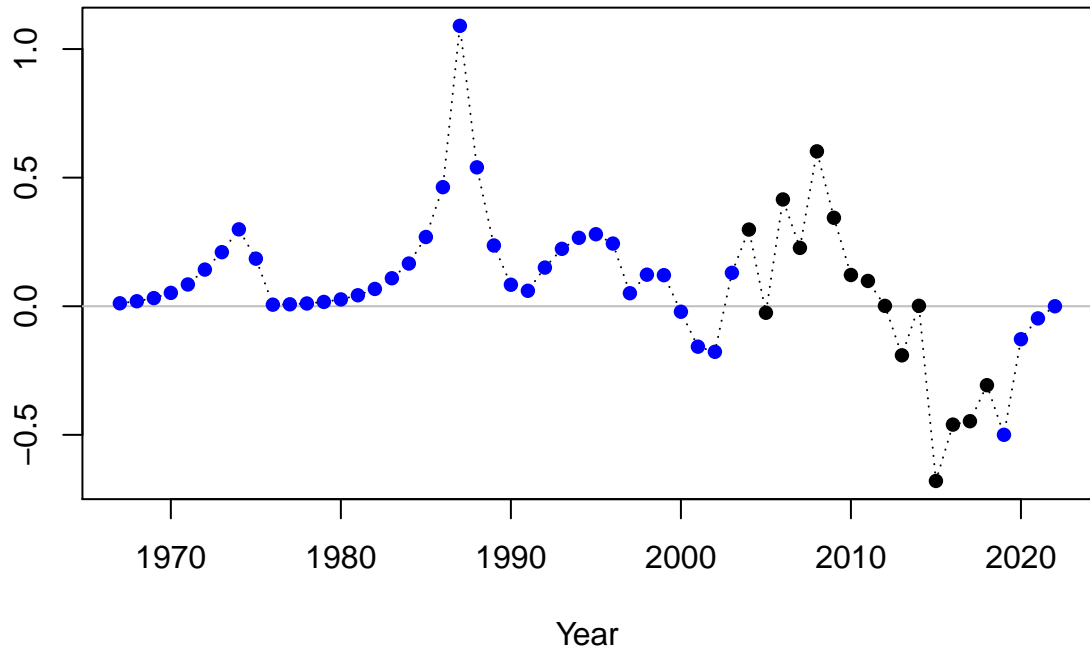


Summary Fishing Mortality





Log recruitment deviation



Log recruitment deviation

2
1
0
-1

1970

1980

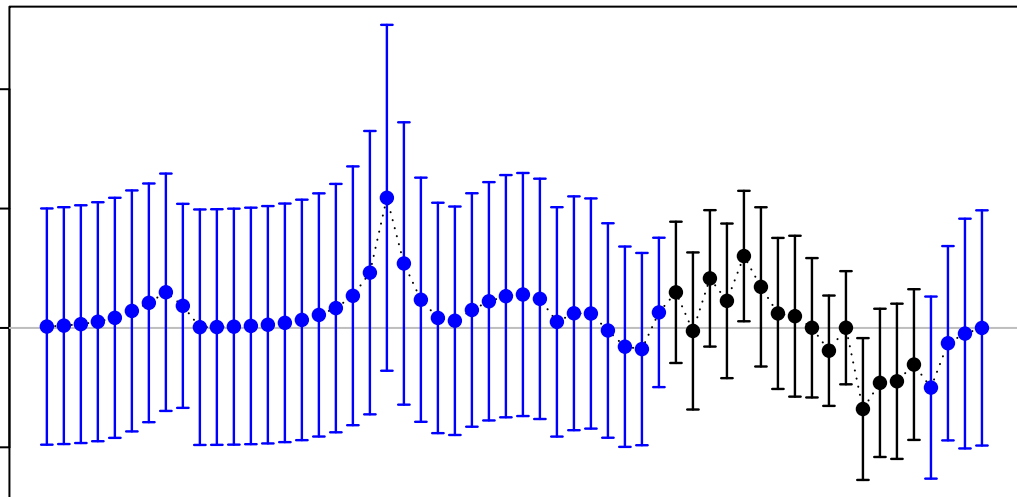
1990

2000

2010

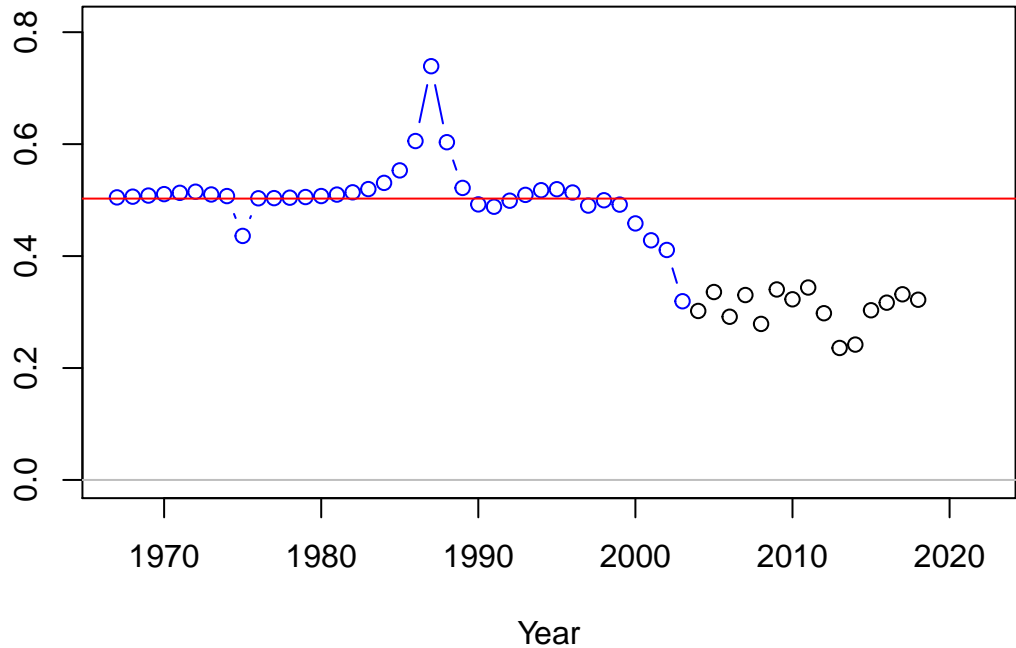
2020

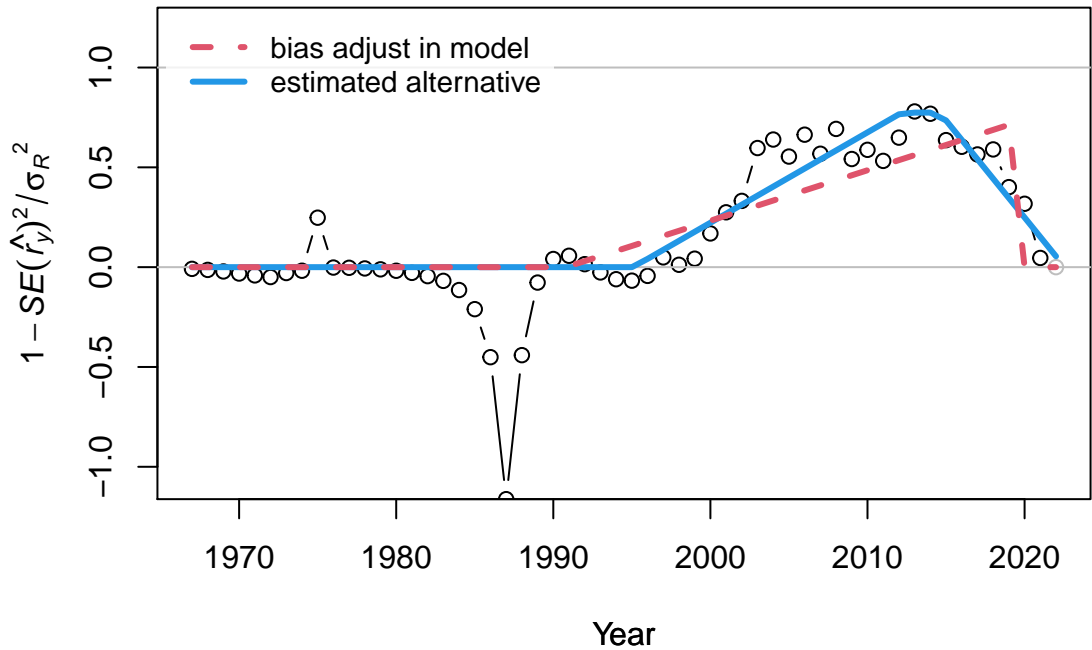
Year



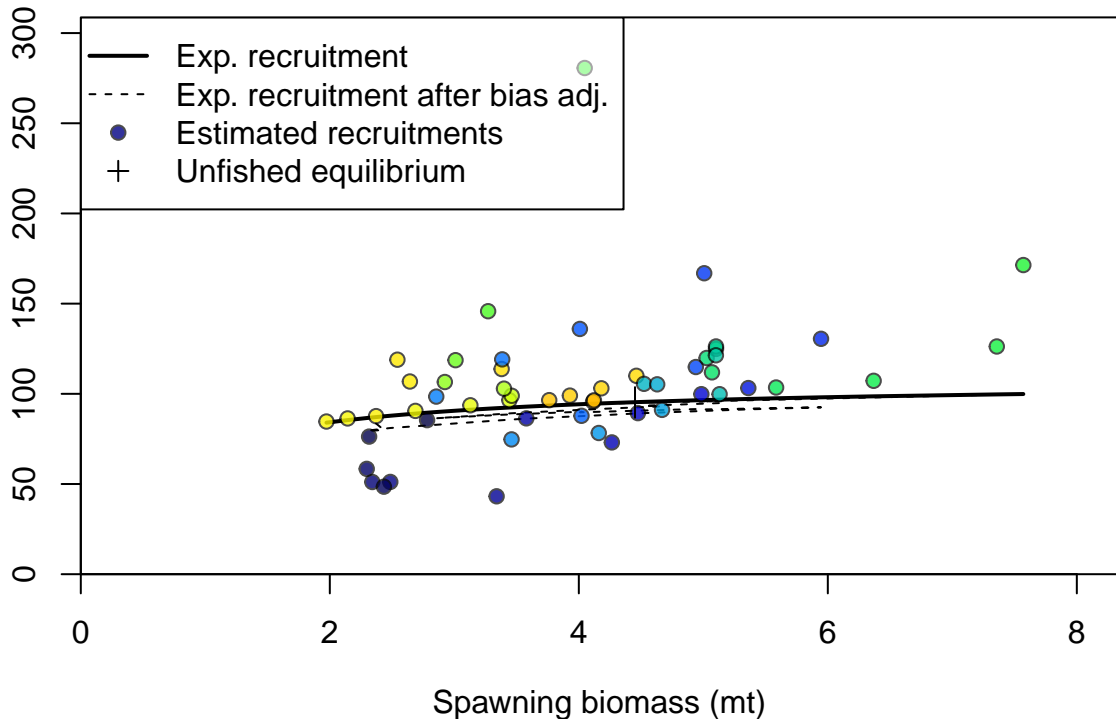
Recruitment deviation variance

Asymptotic standard error estimate

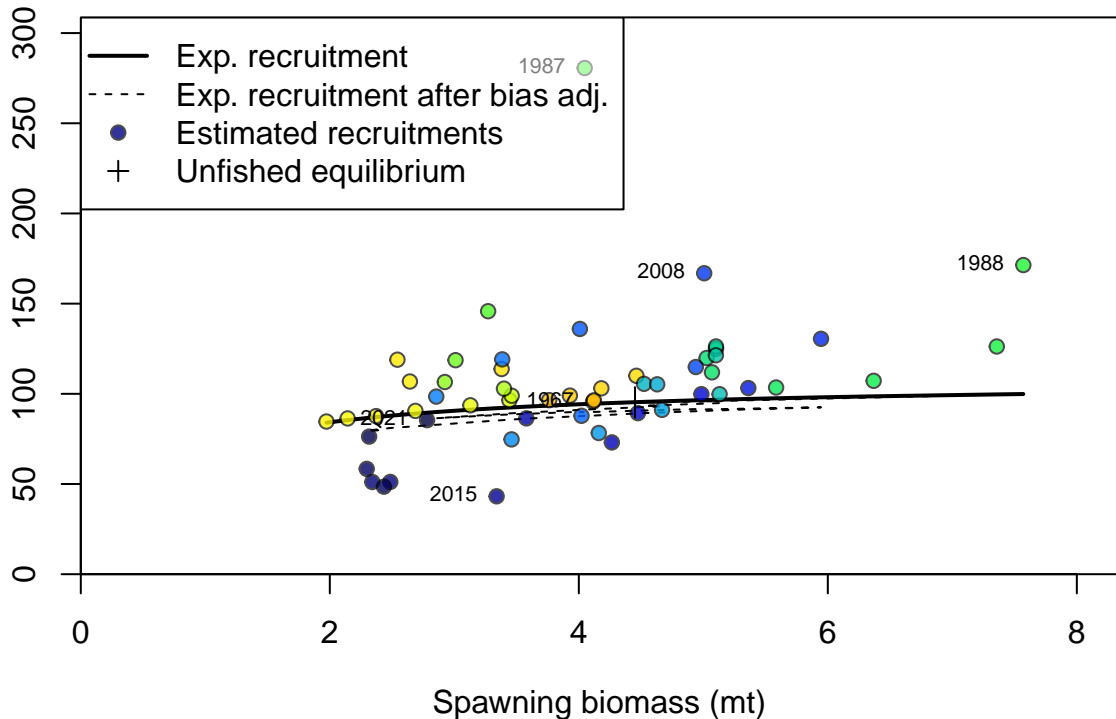




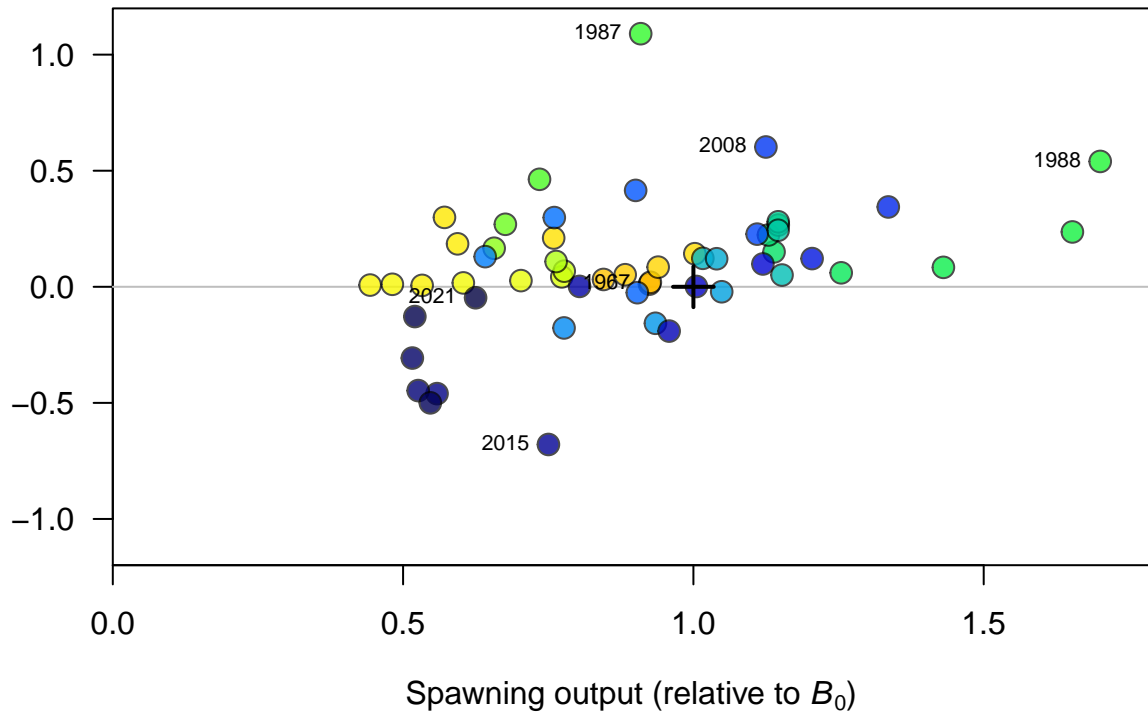
Recruitment (1,000s)

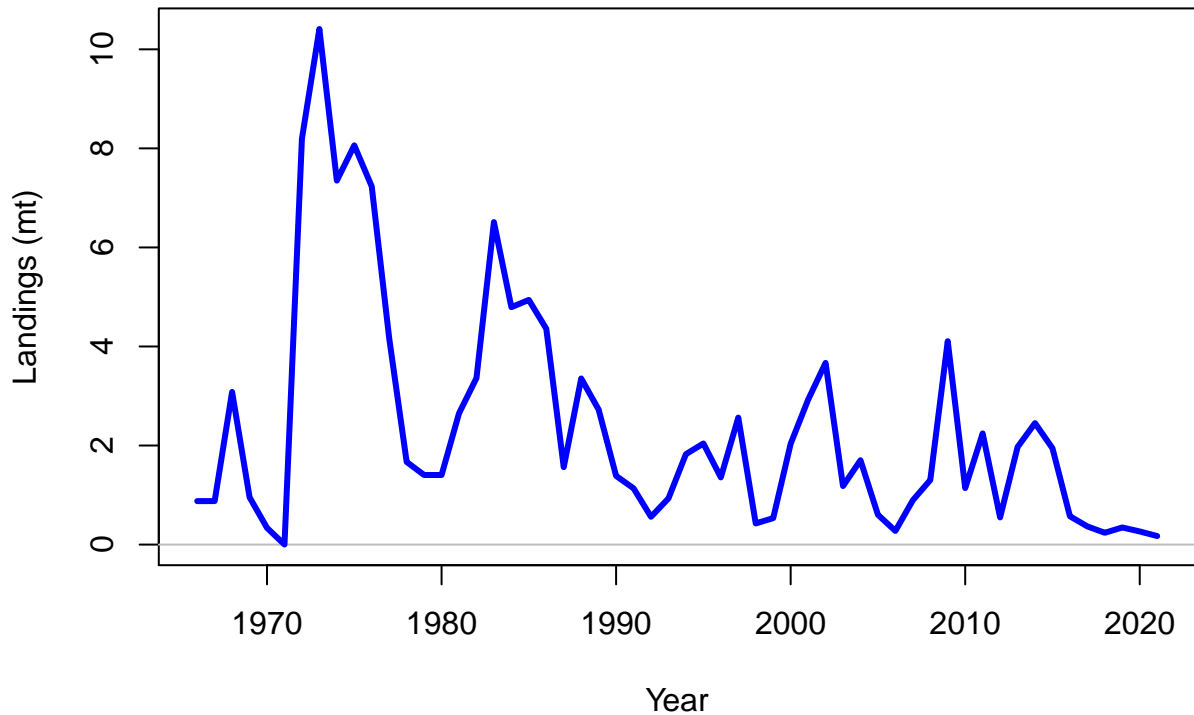


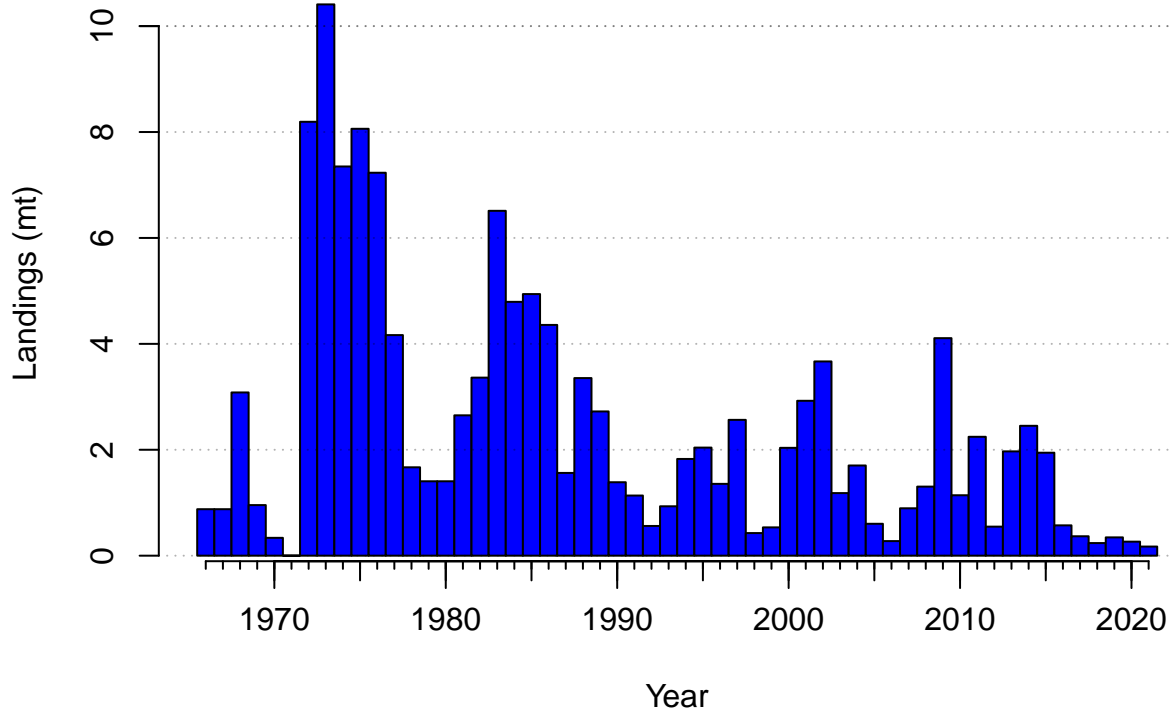
Recruitment (1,000s)

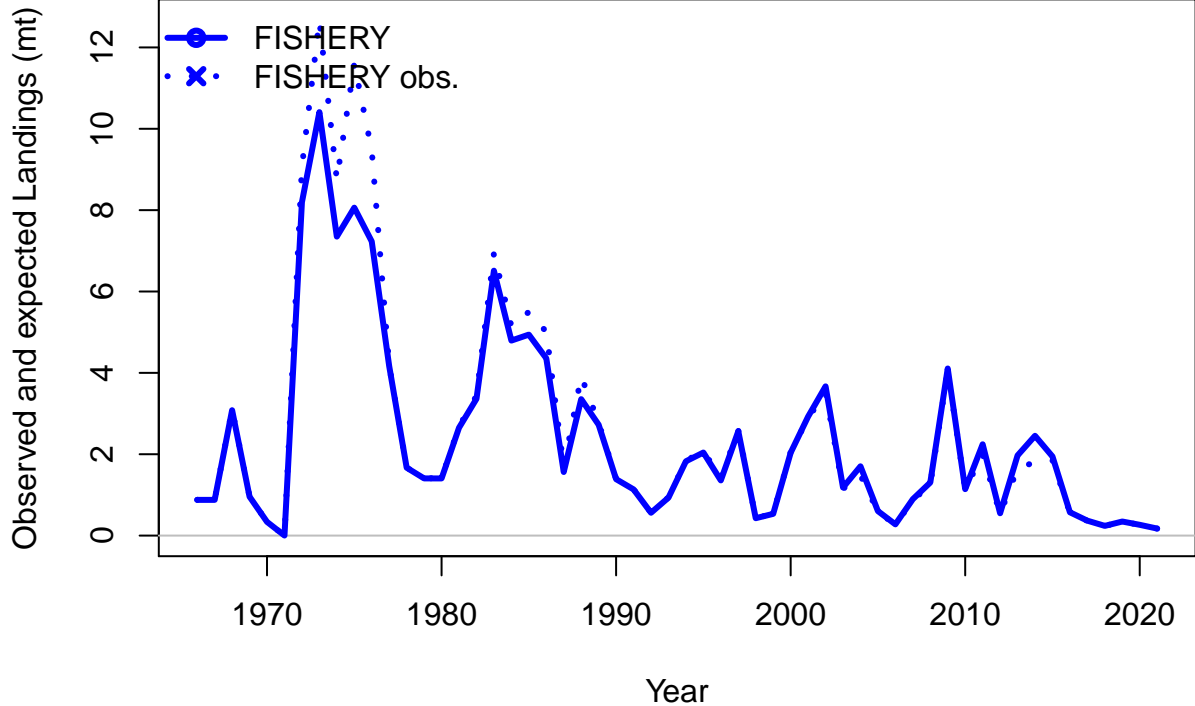


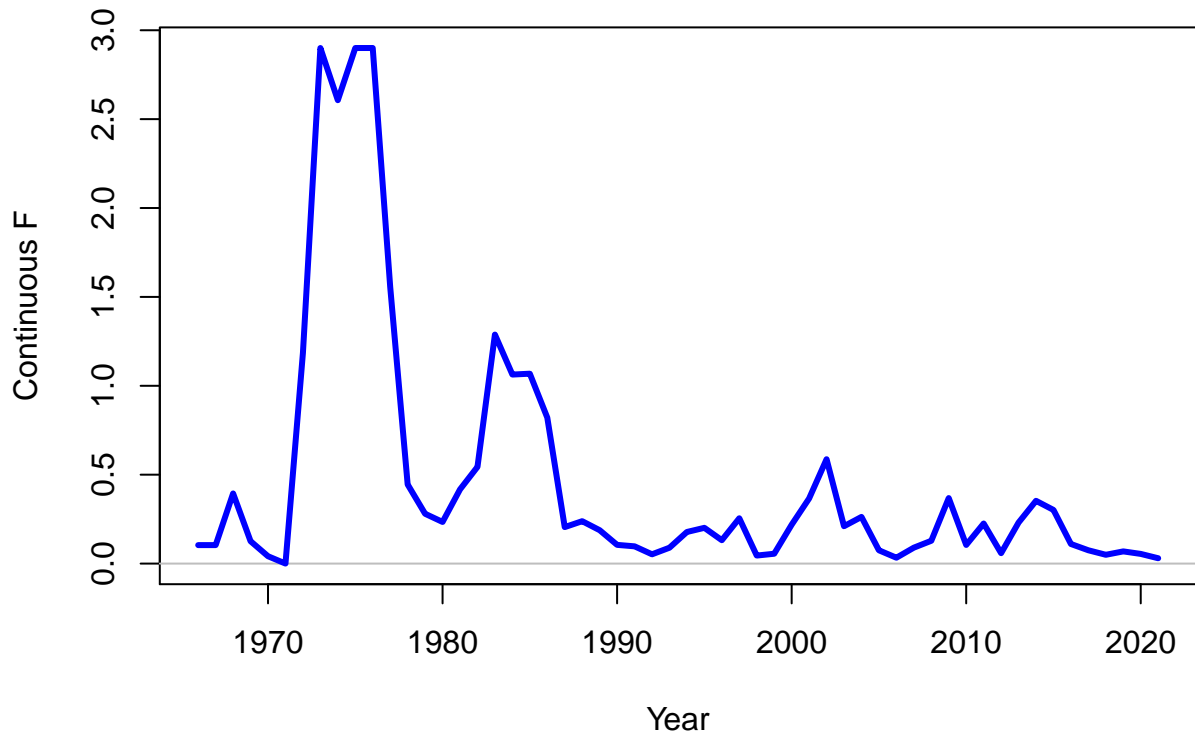
Log recruitment deviation



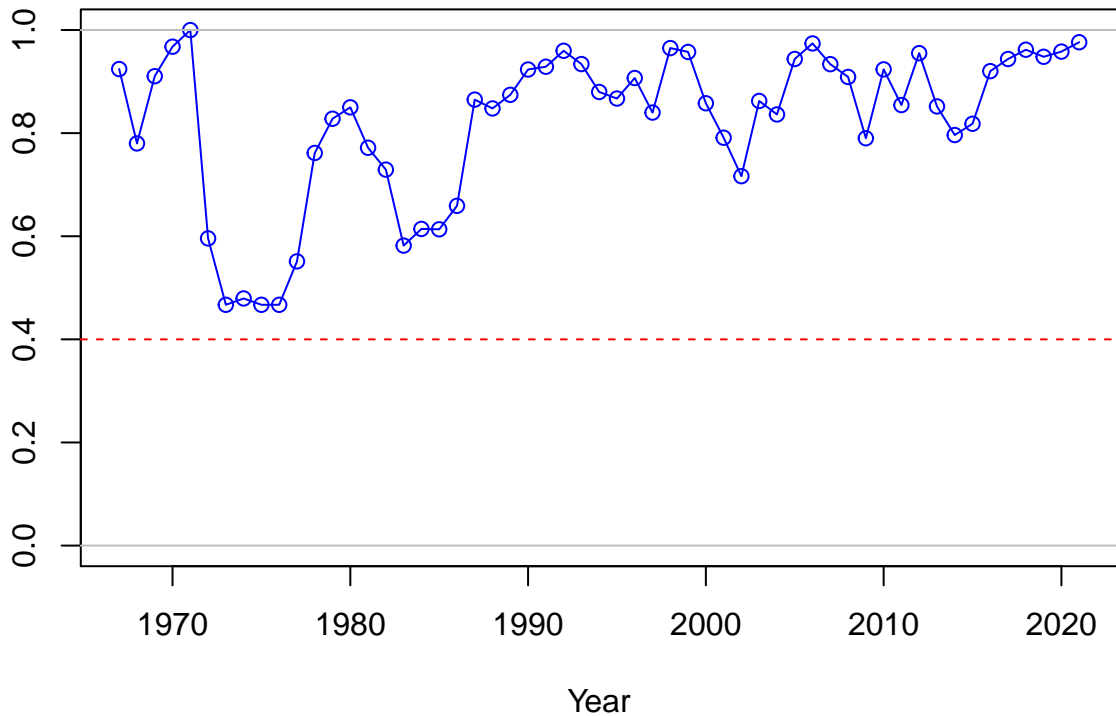




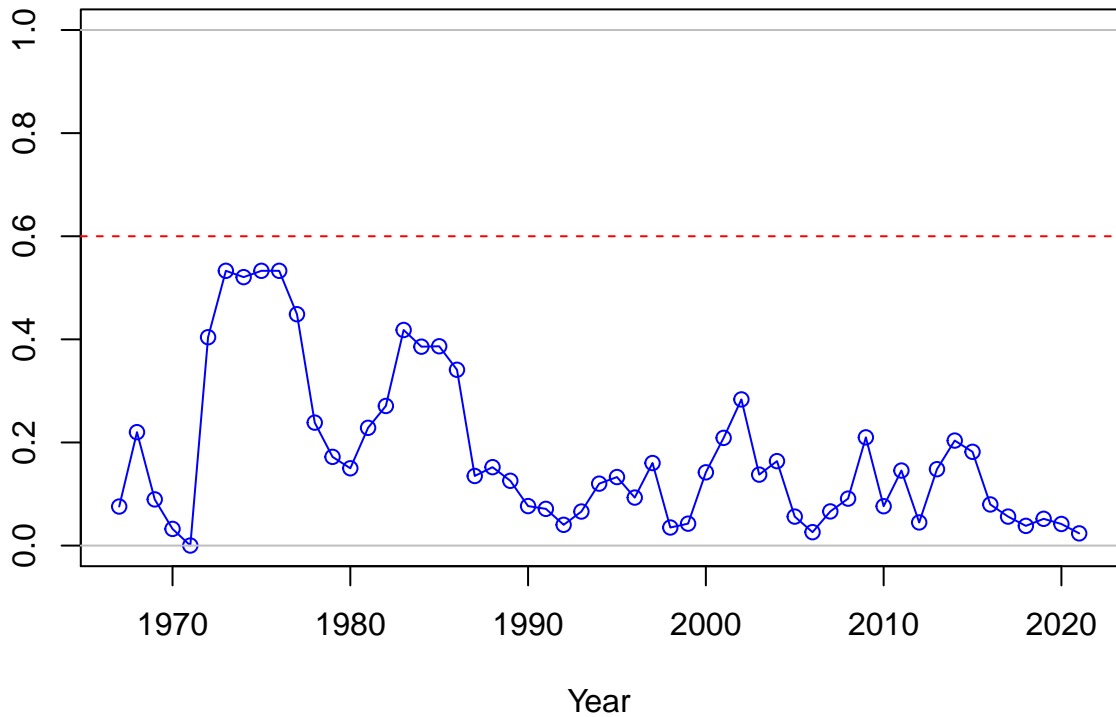




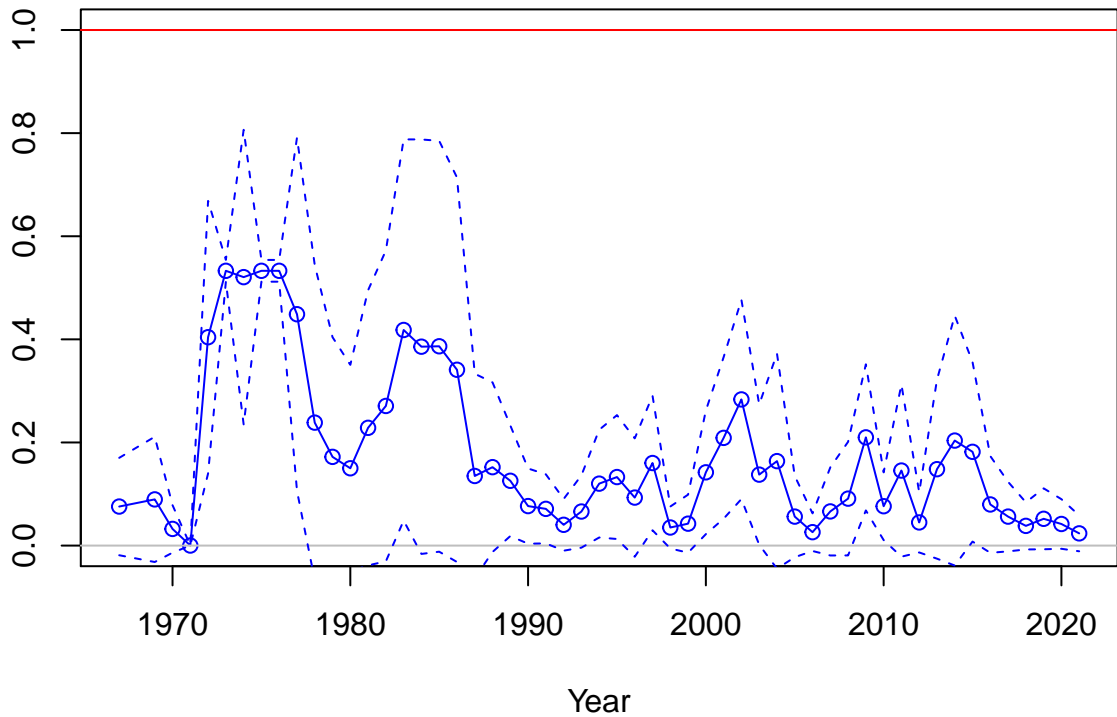
SPR



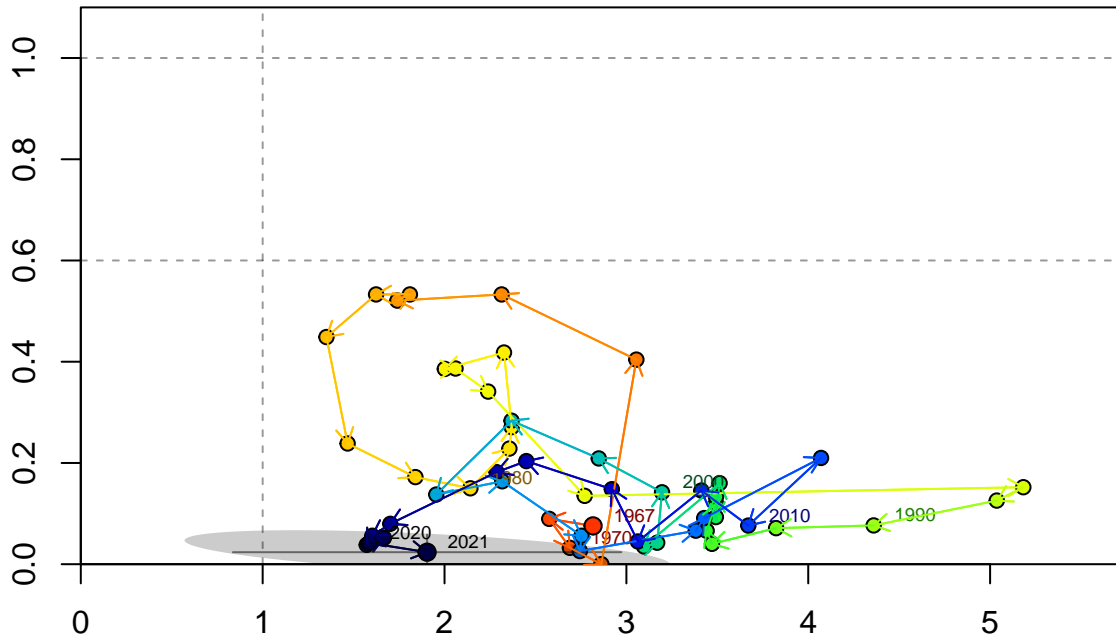
1-SPR



Fishing intensity: 1-SPR

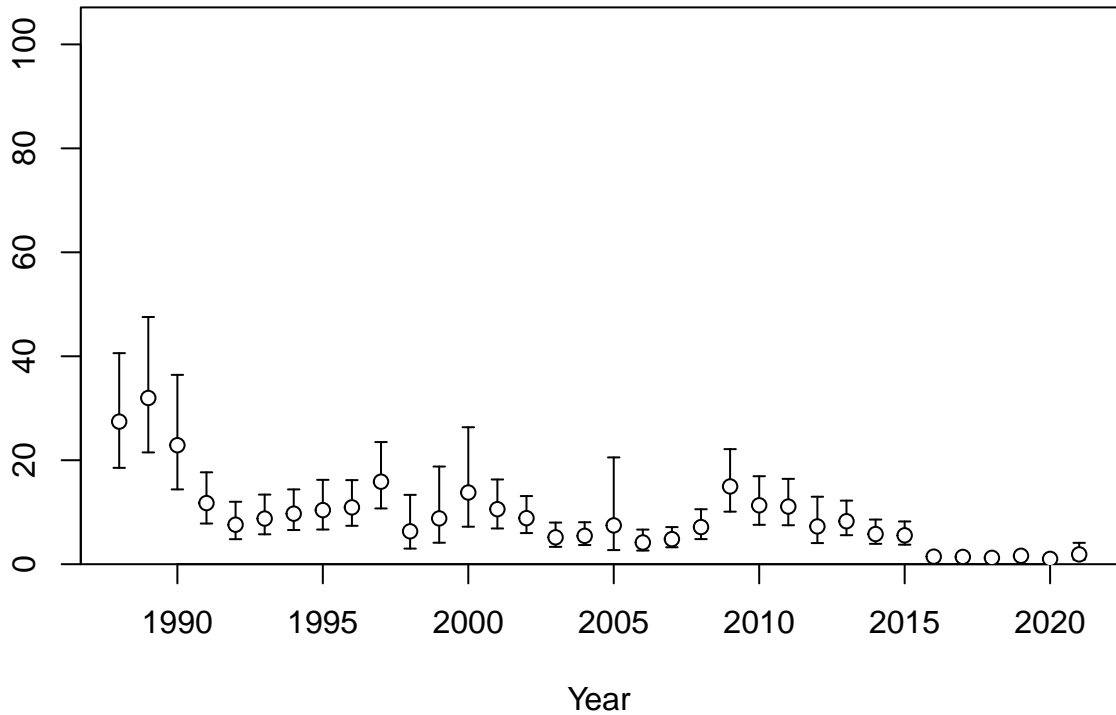


Fishing intensity: 1-SPR

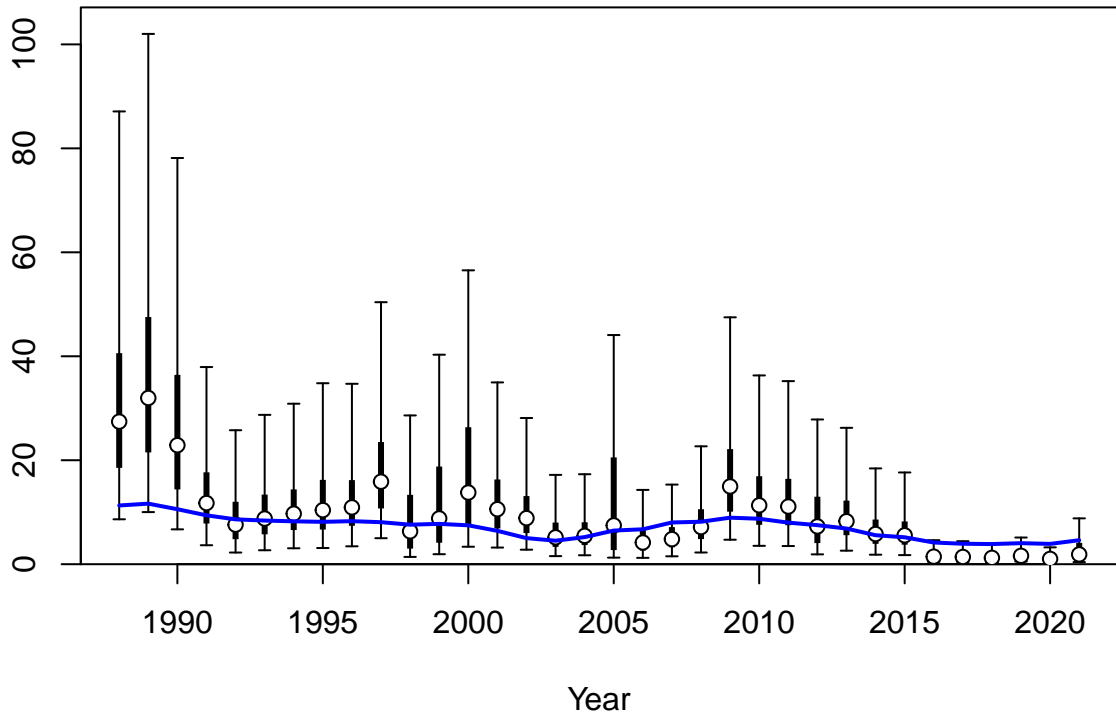


Relative spawning output: B/B_MSY

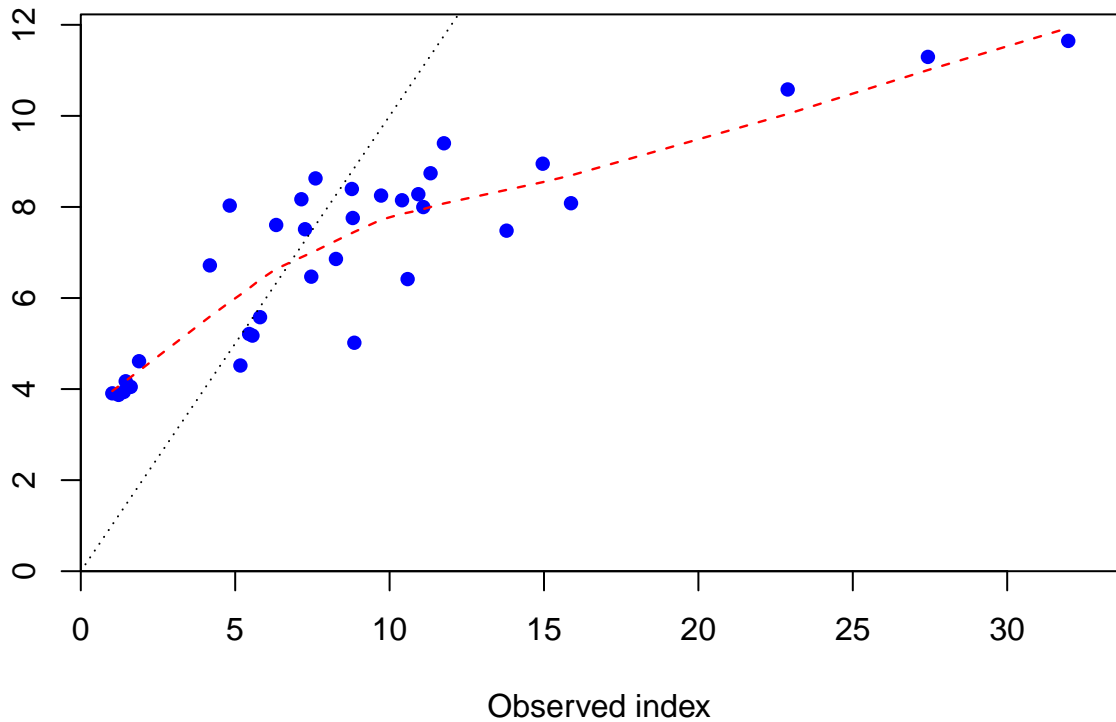
Index



Index



Expected index



Log index

4
3
2
1
0
-1

1990

1995

2000

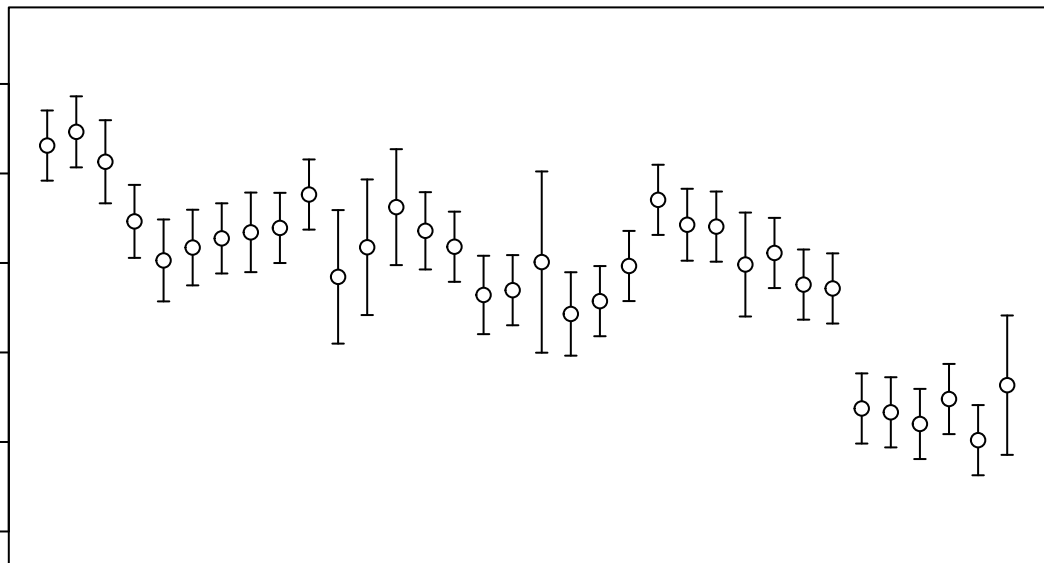
2005

2010

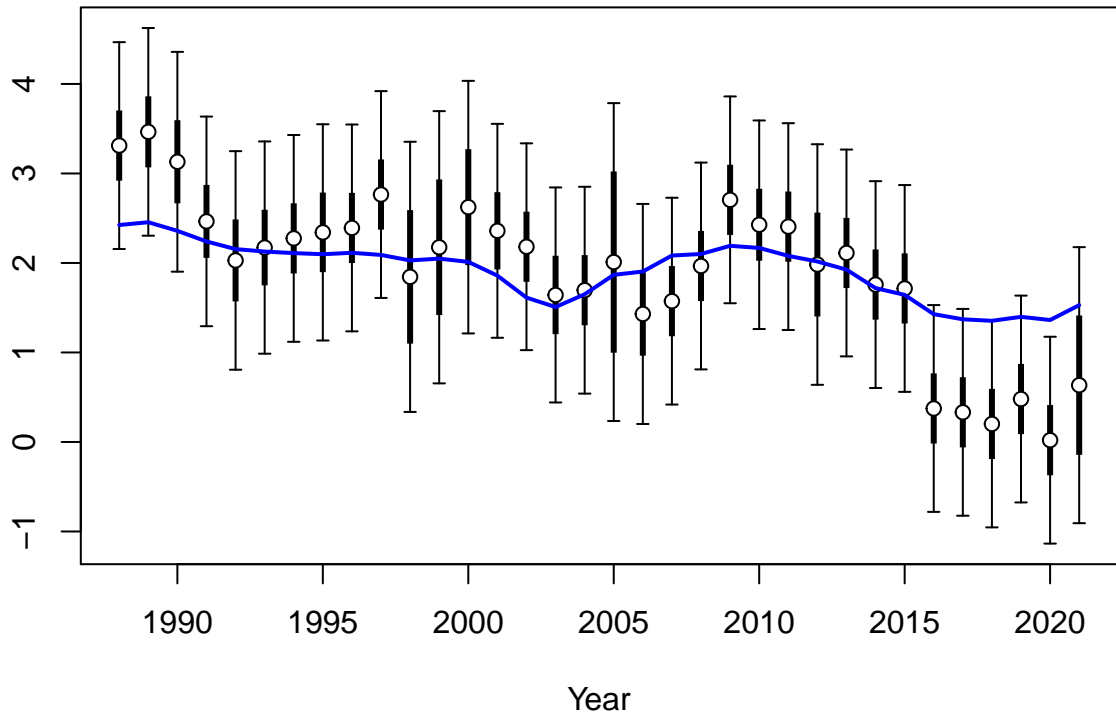
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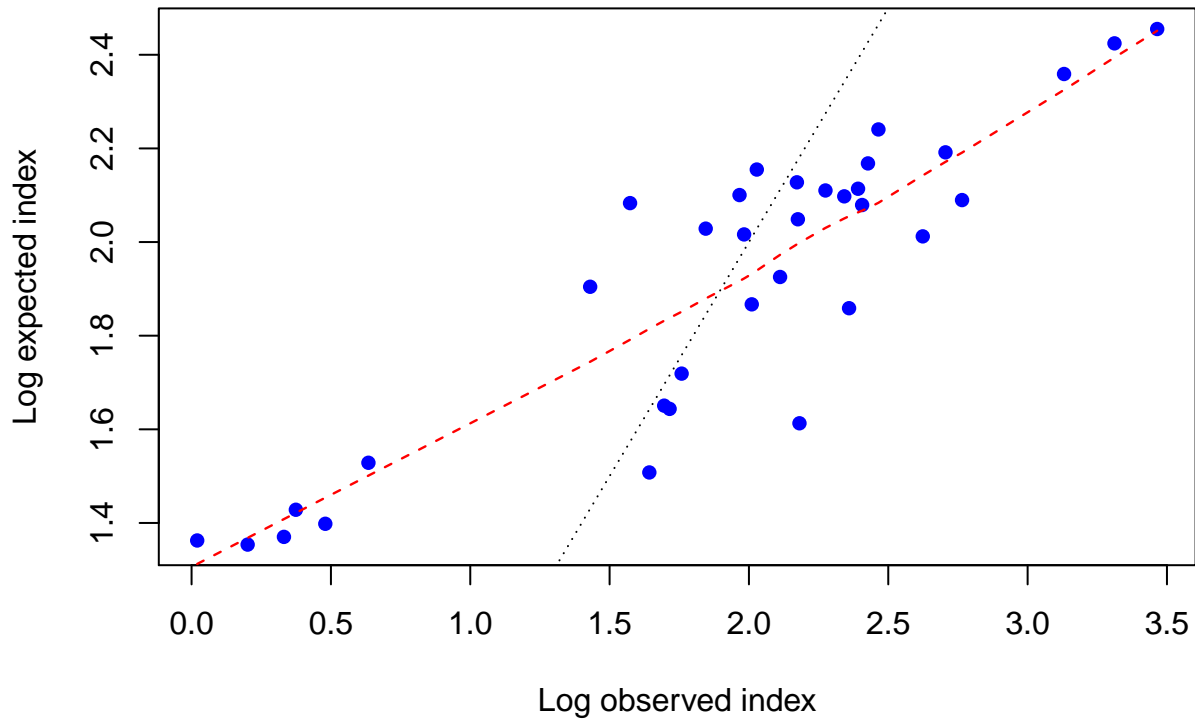
2020

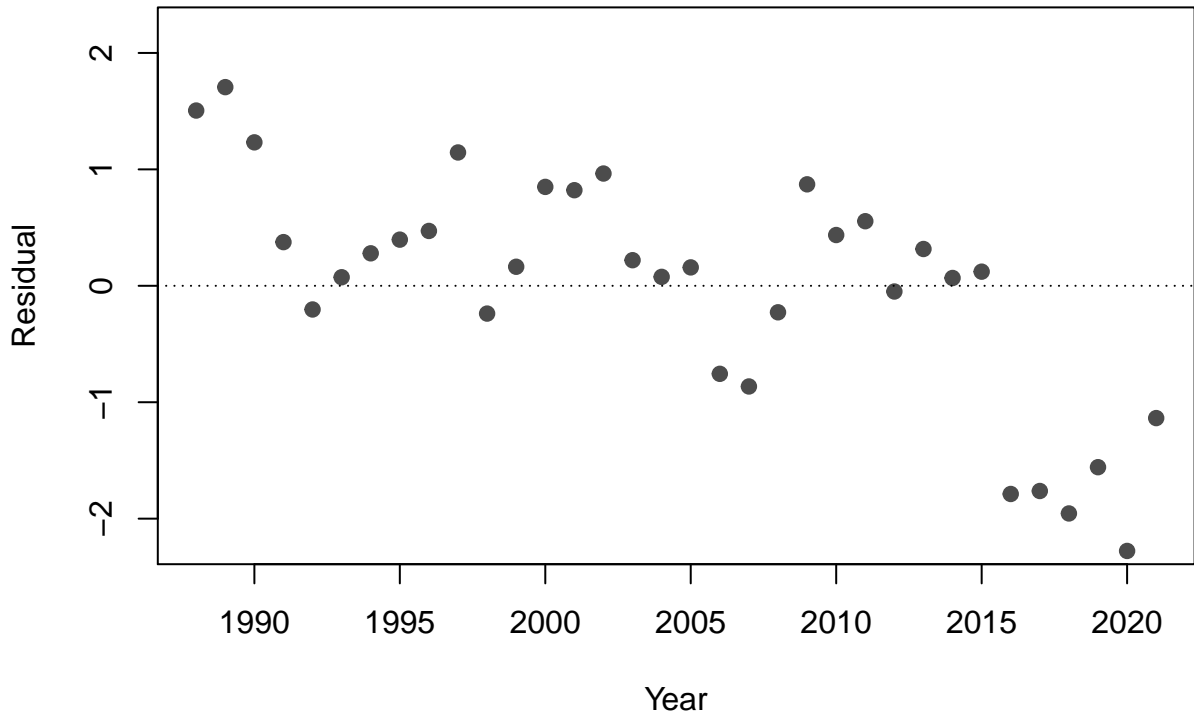
Year

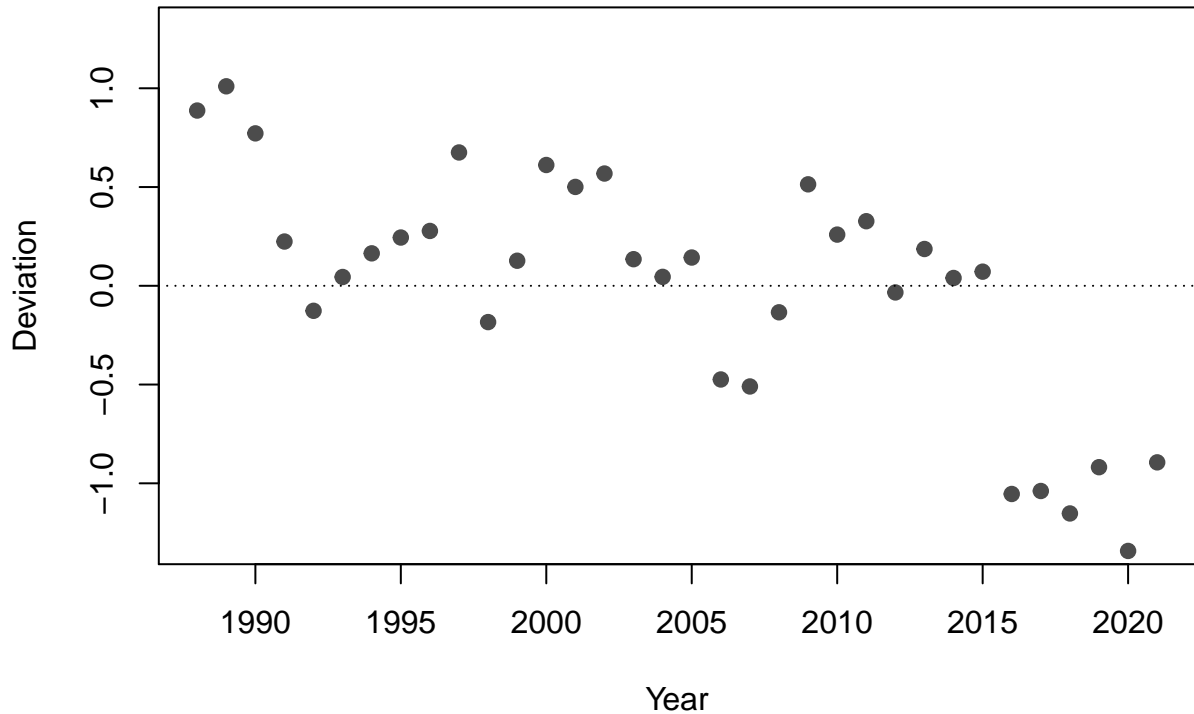


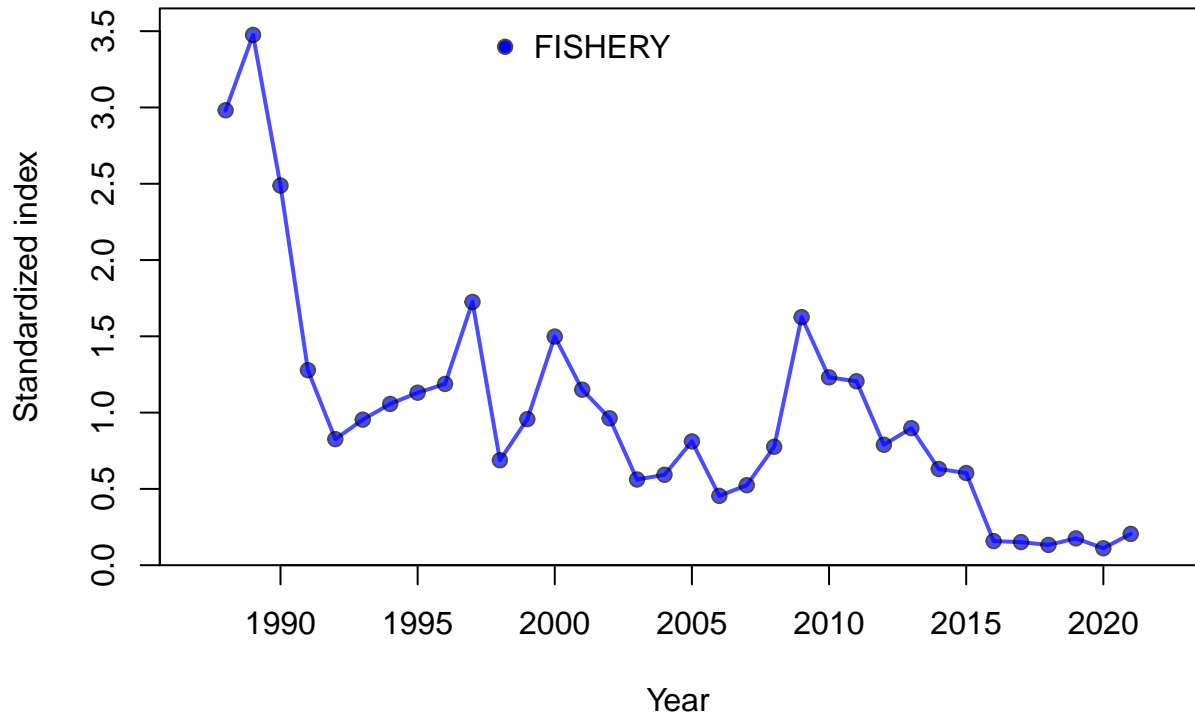
Log index

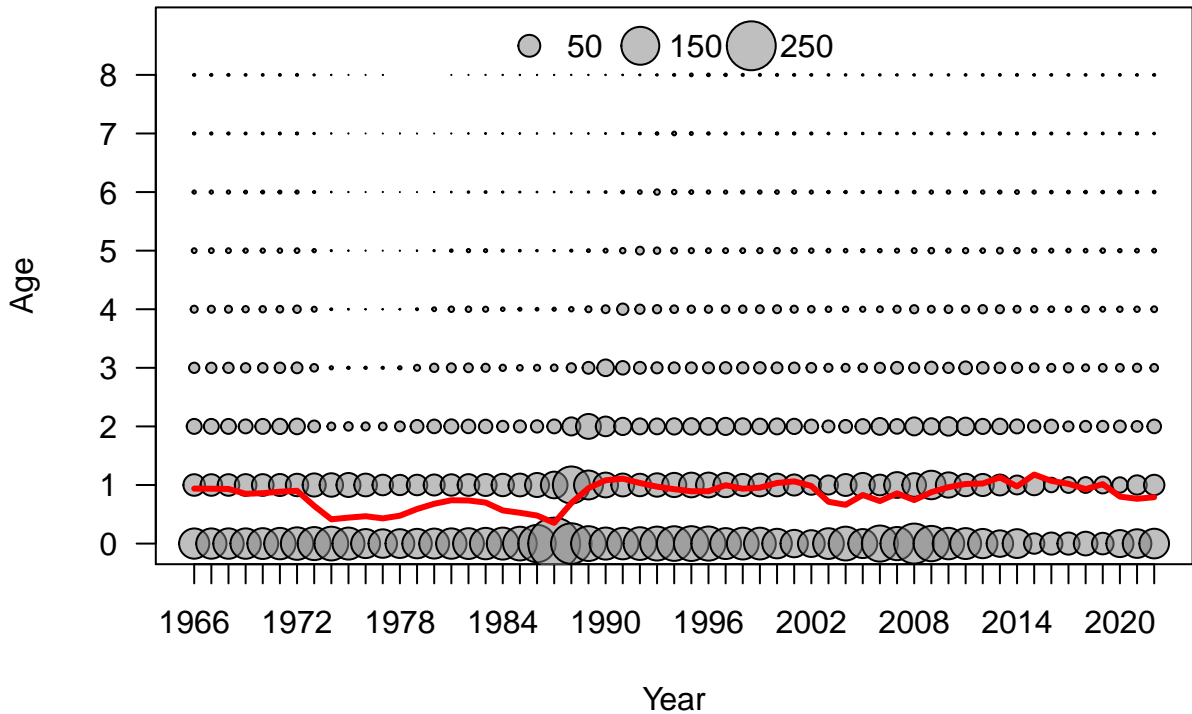




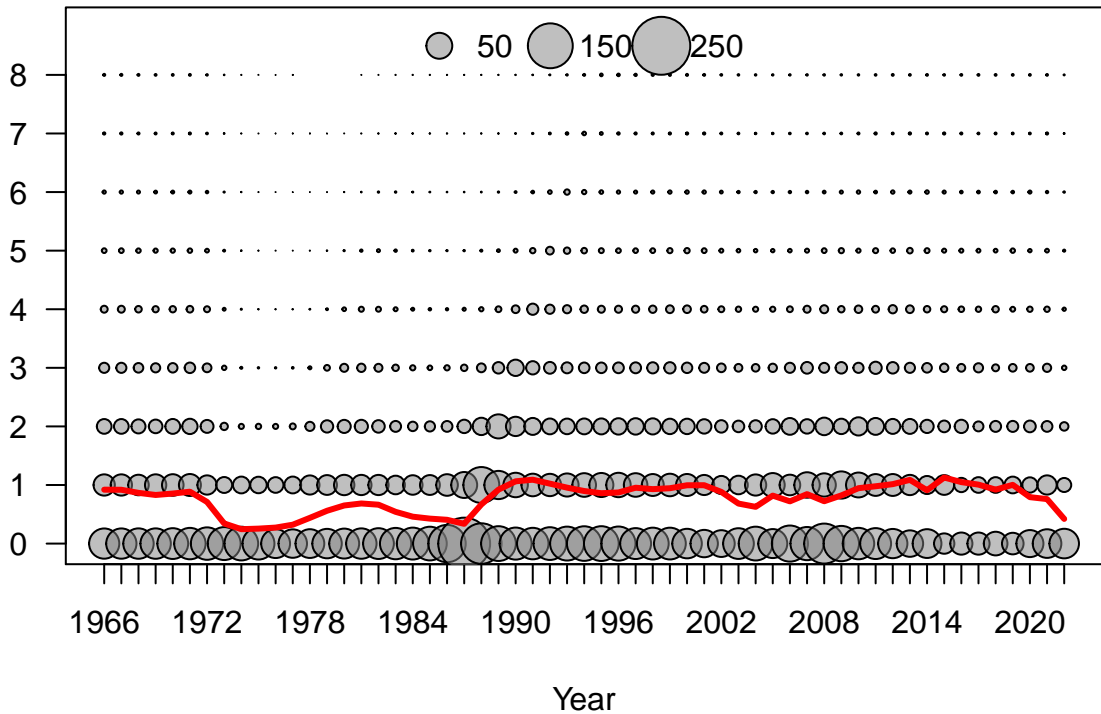


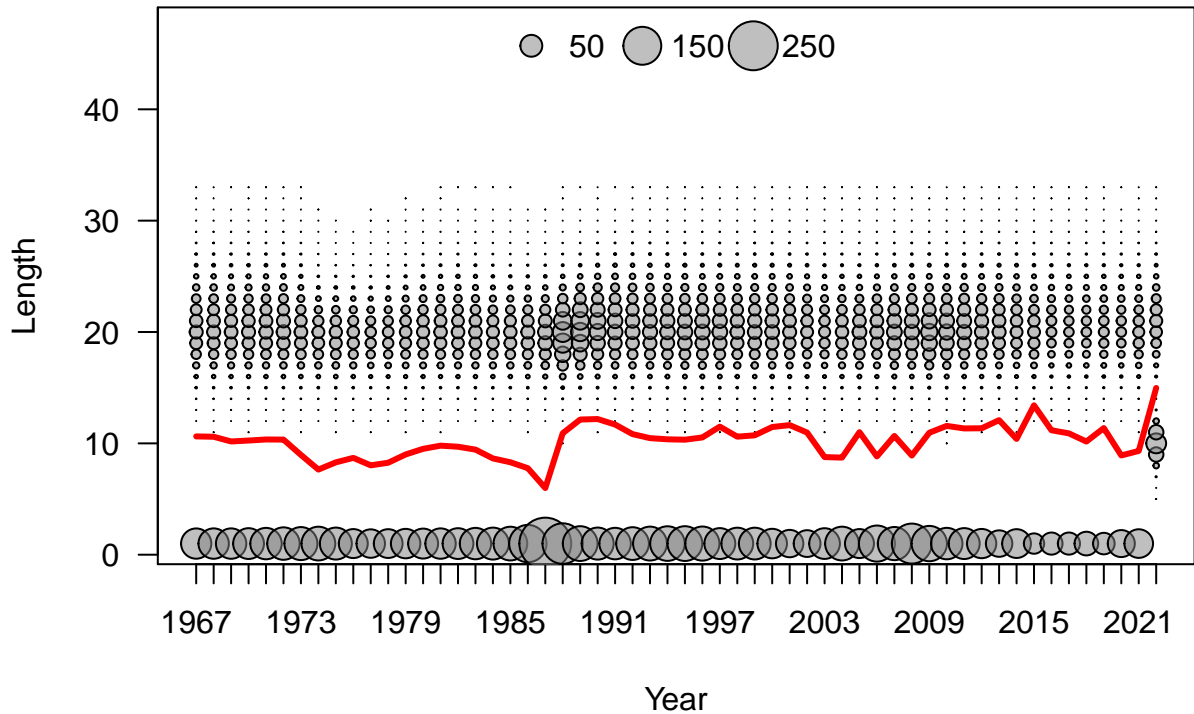


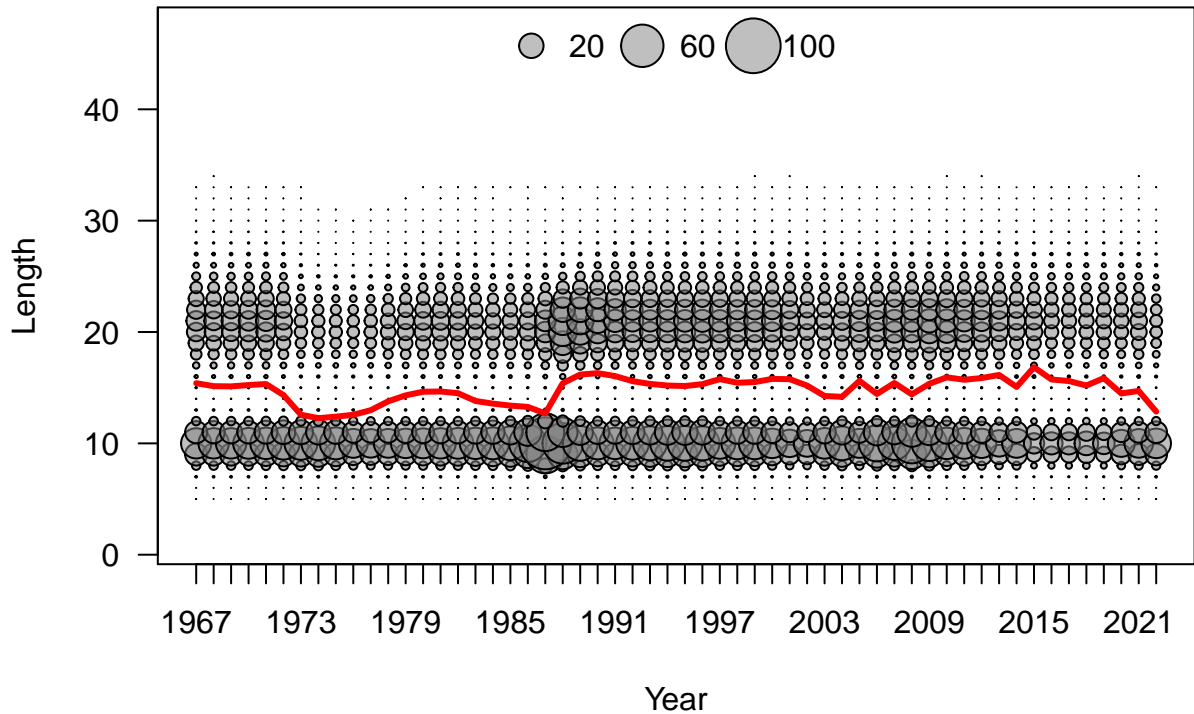




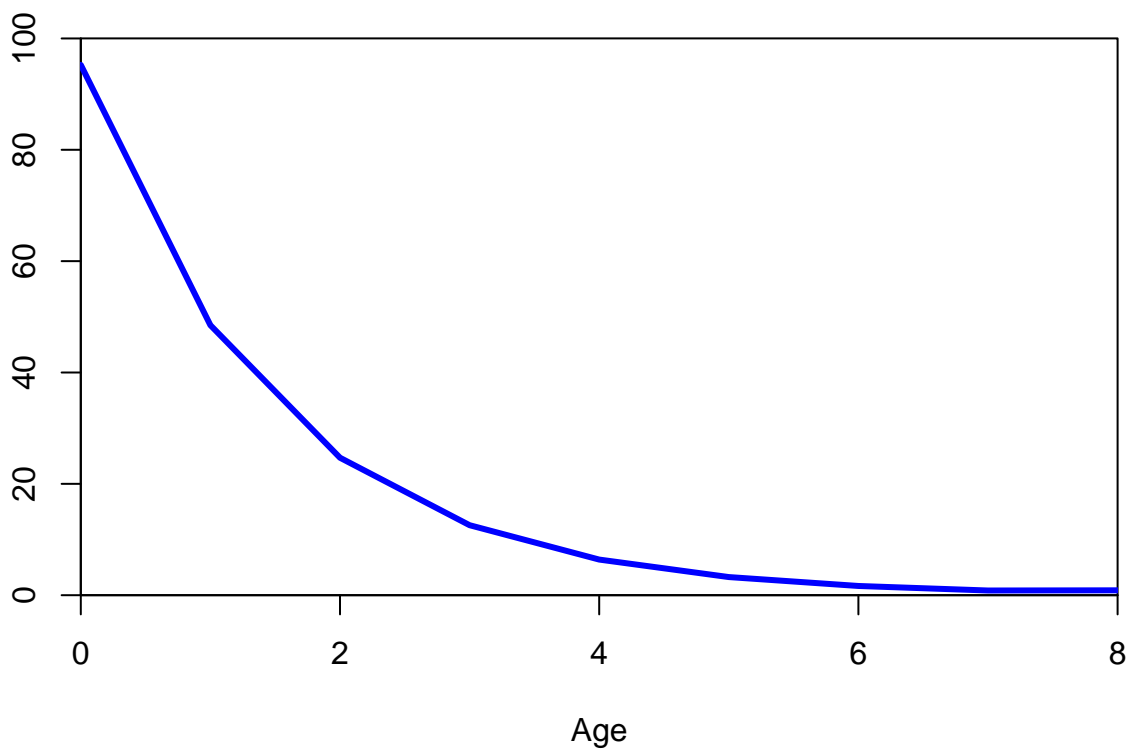
Age





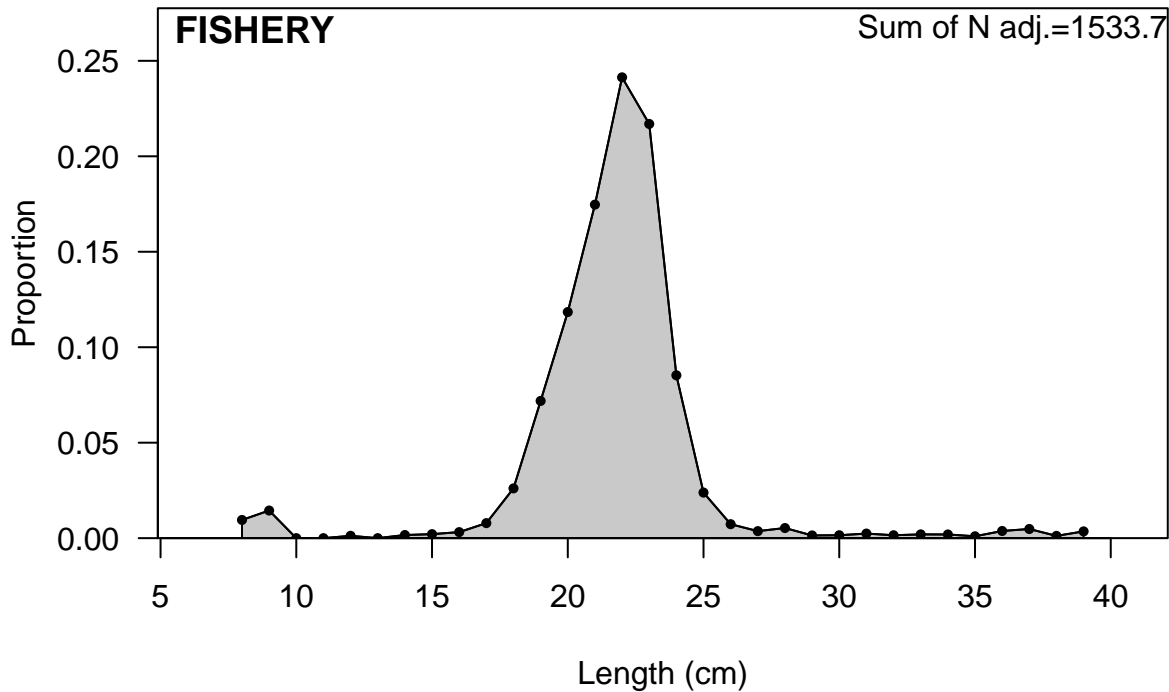


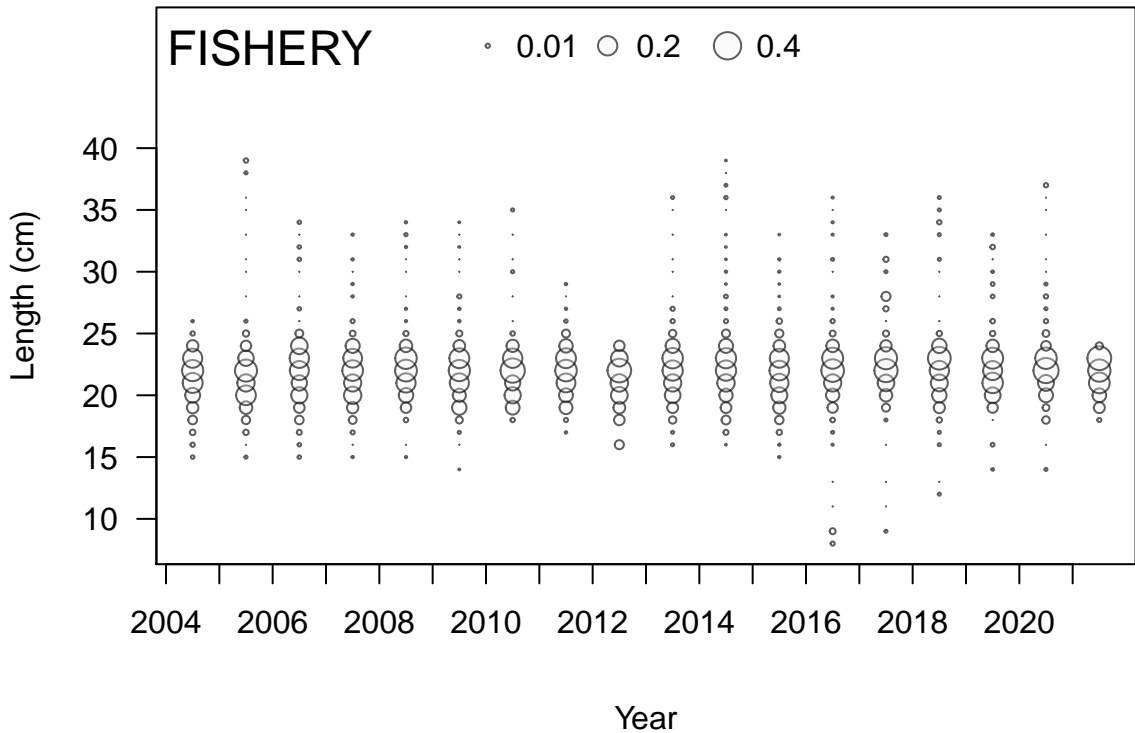
Numbers at age at equilibrium



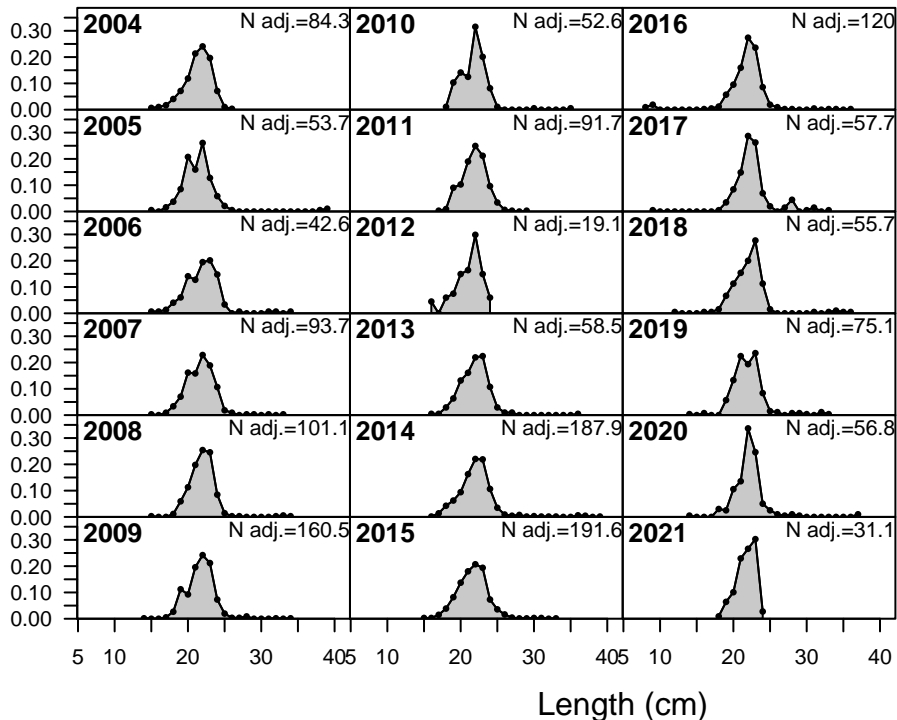
FISHERY

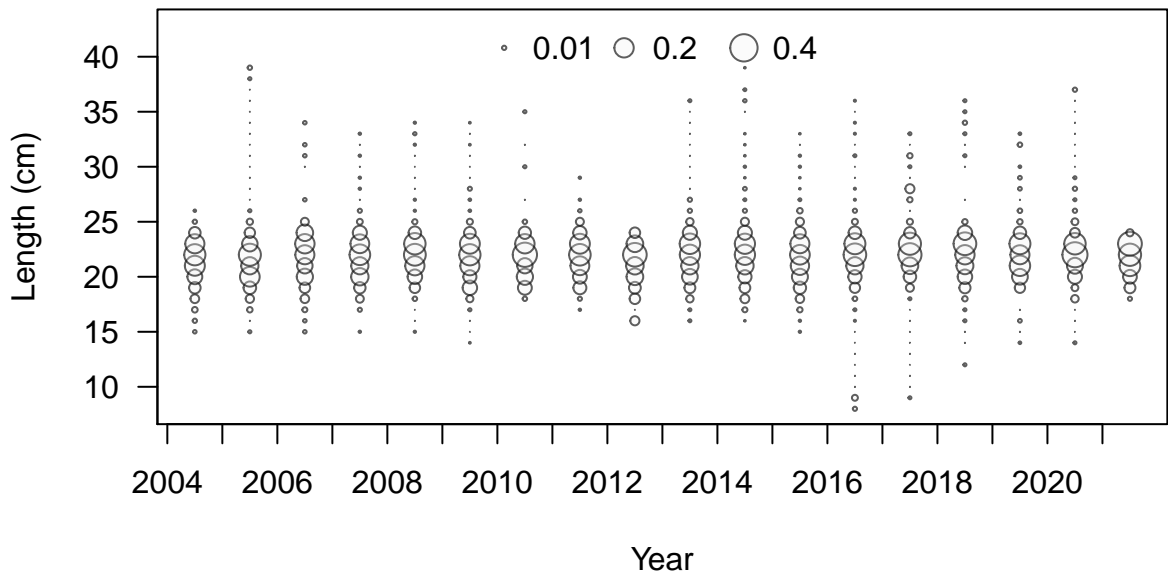
Sum of N adj.=1533.7



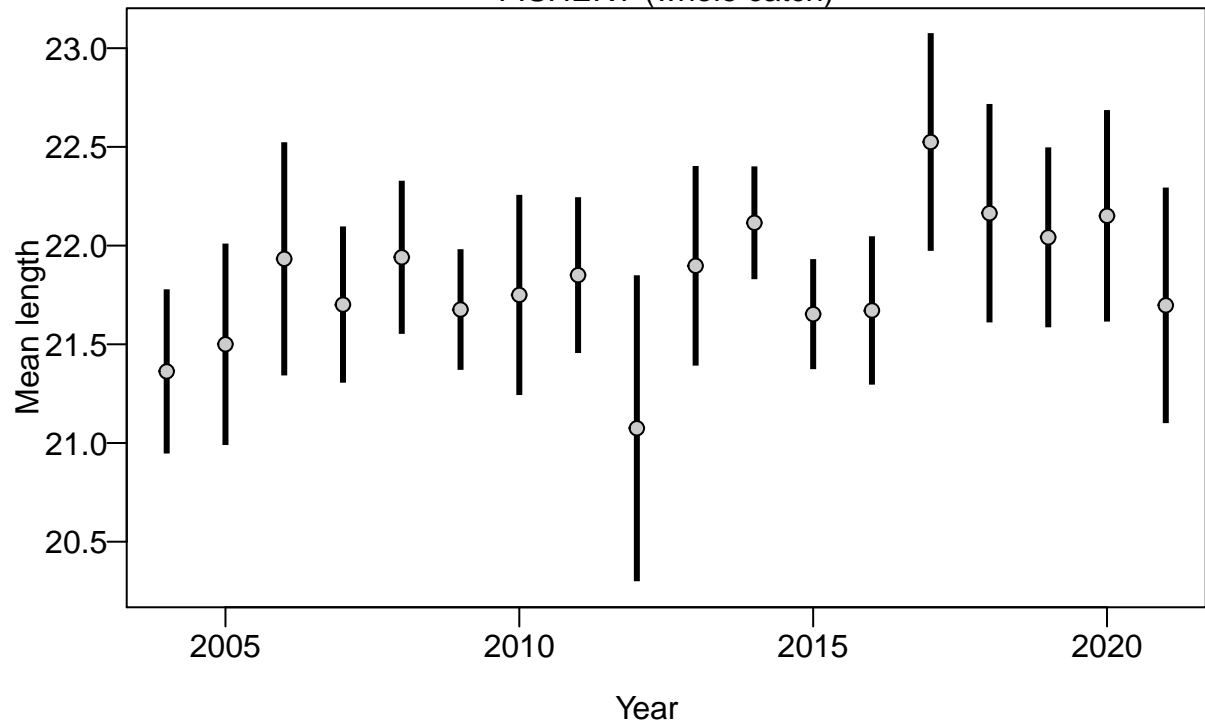


Proportion



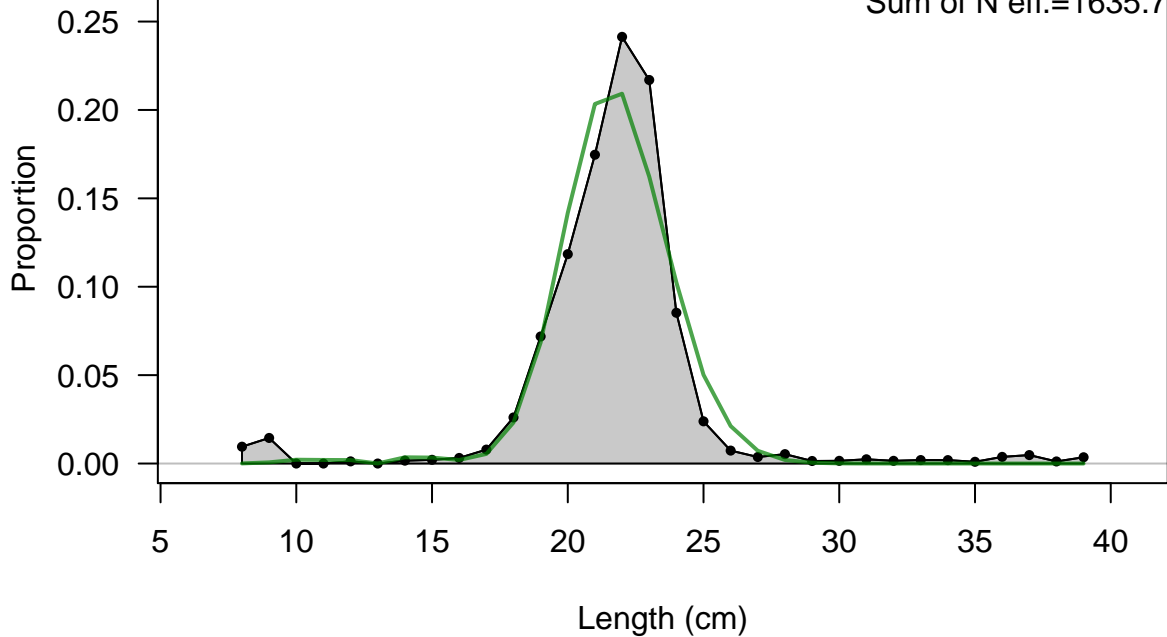


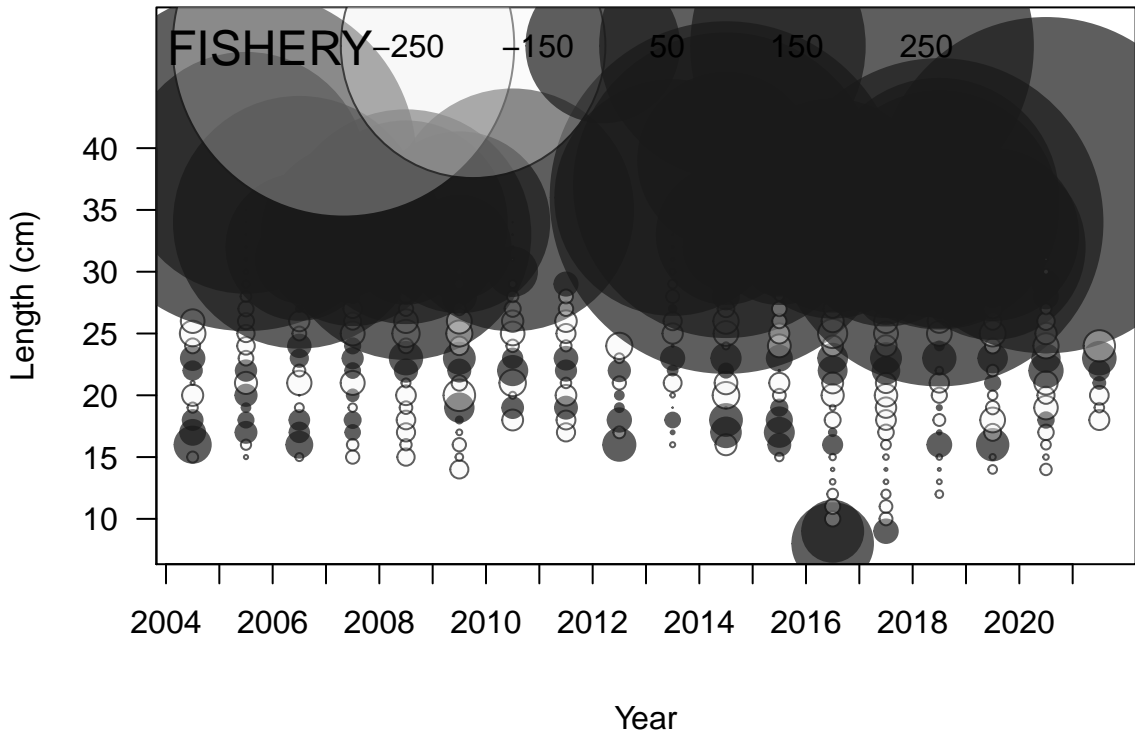
FISHERY (whole catch)

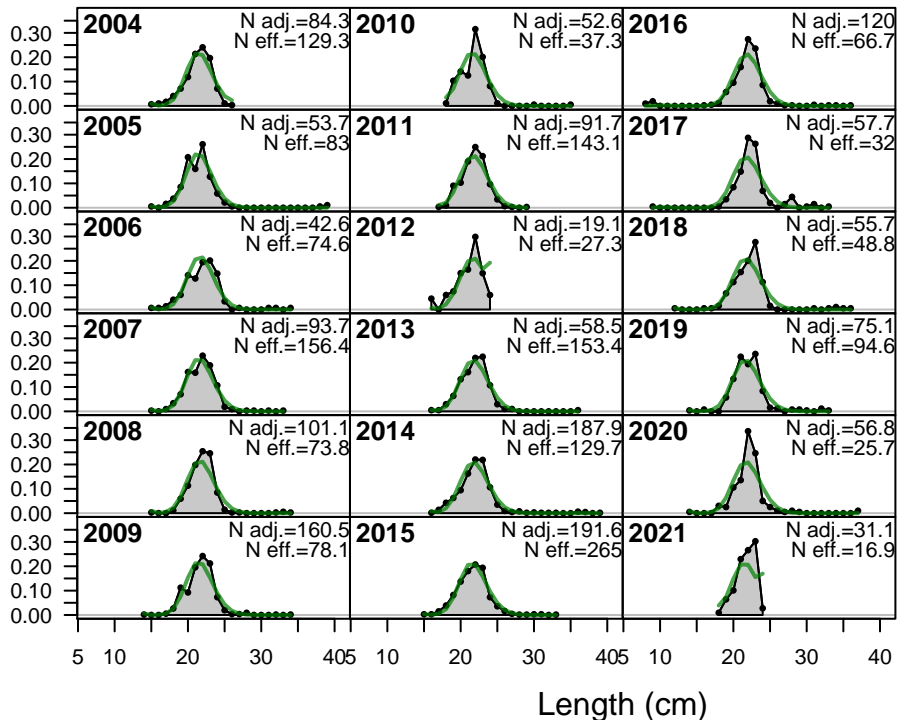


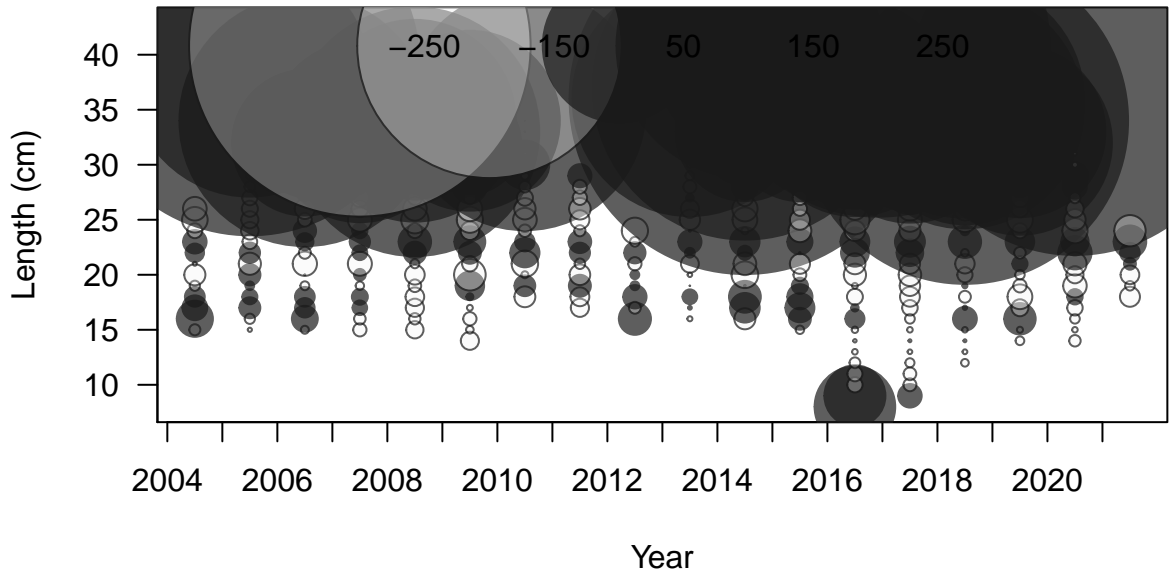
FISHERY

Sum of N adj.=1533.7
Sum of N eff.=1635.7

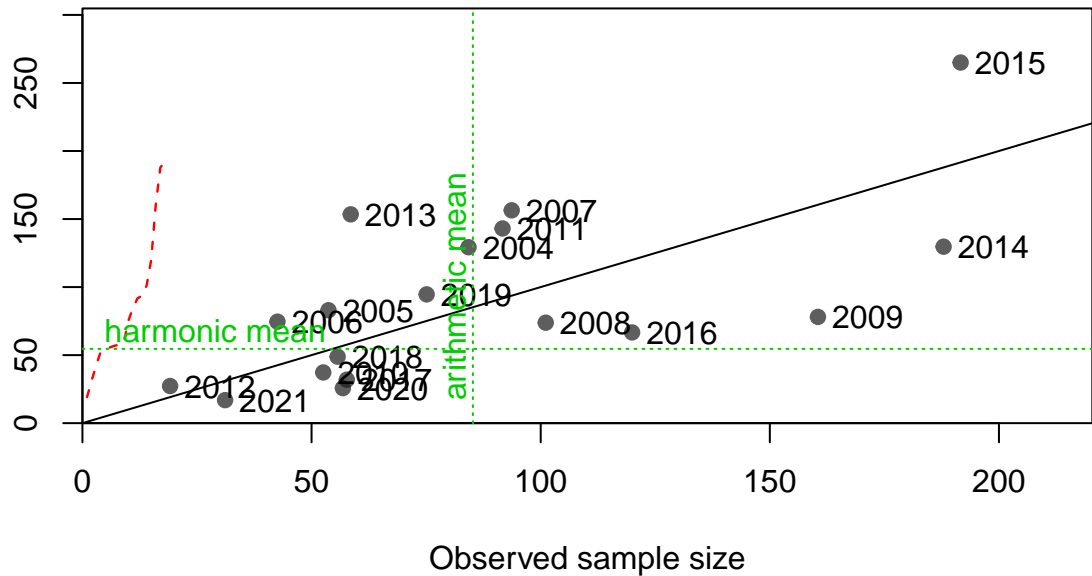




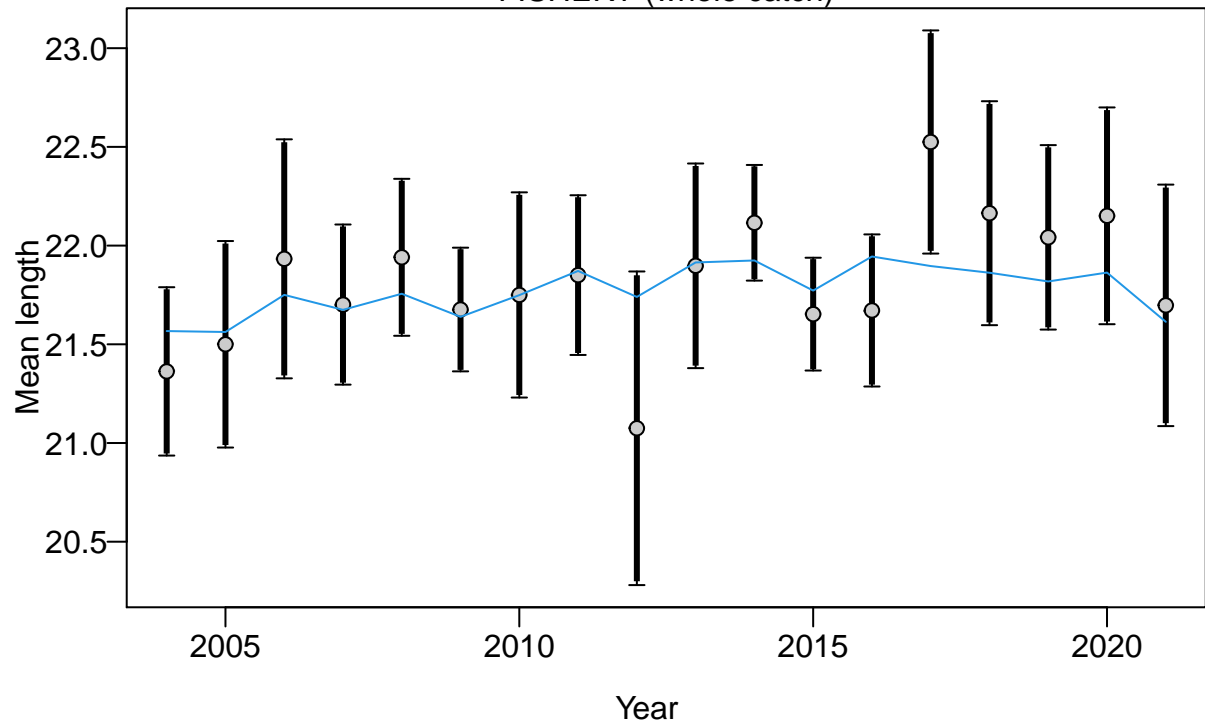


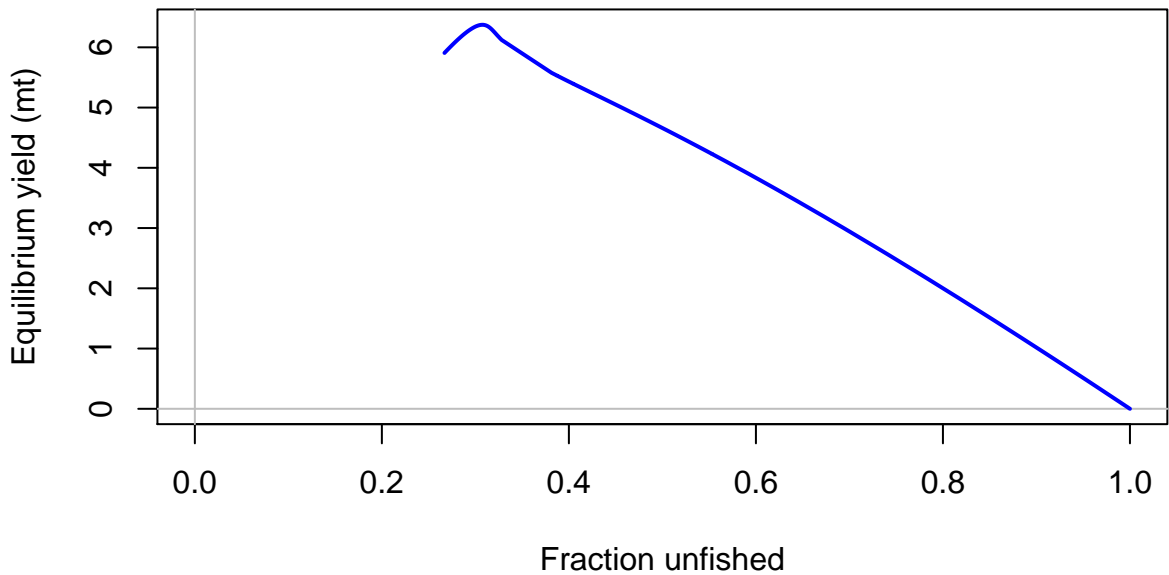


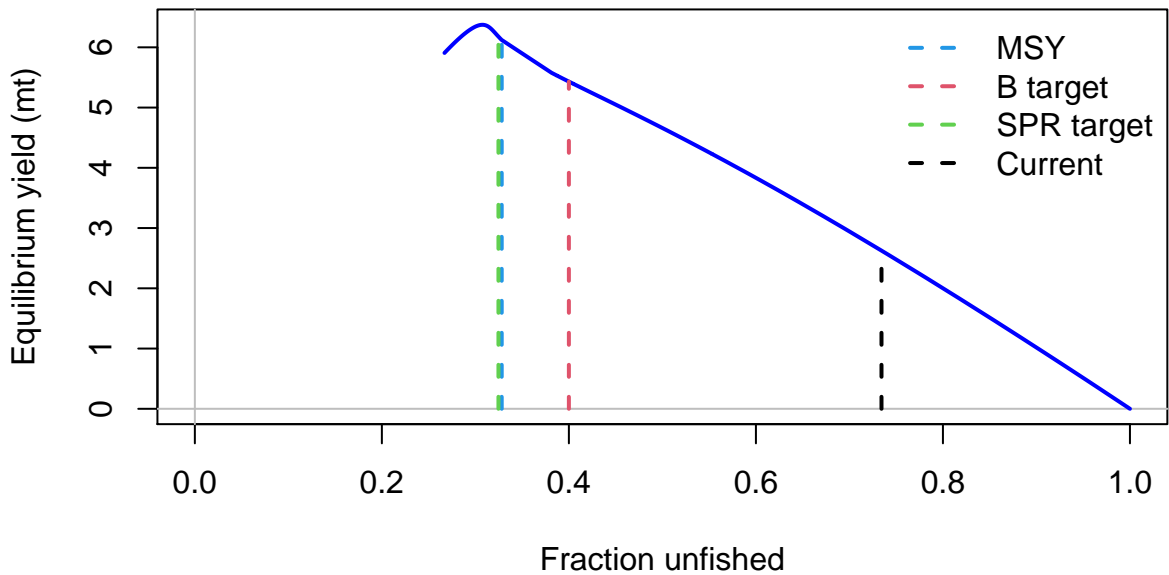
Effective sample size

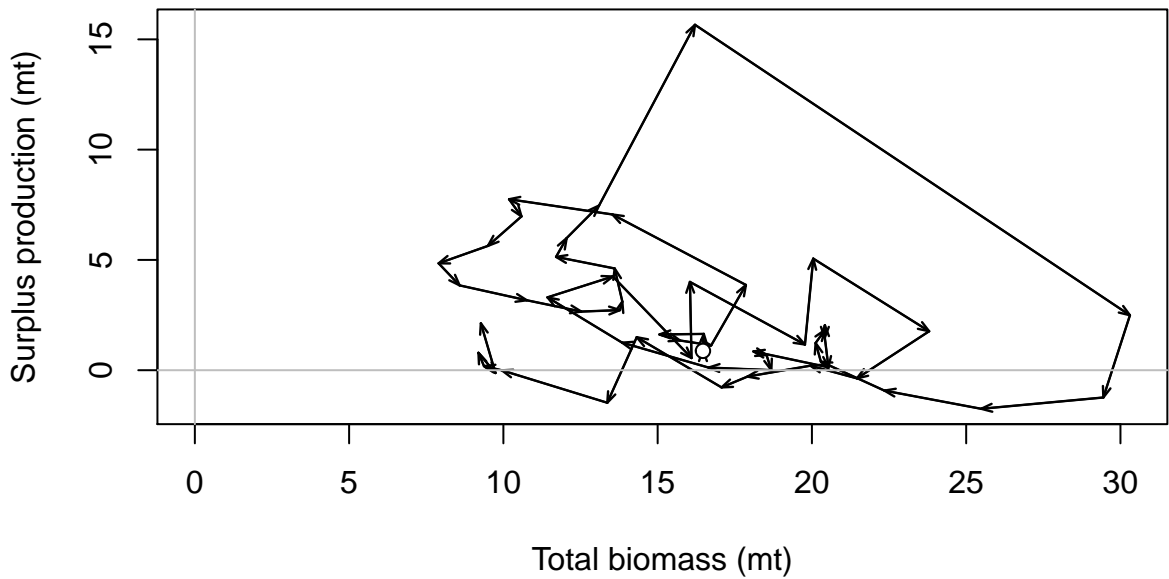


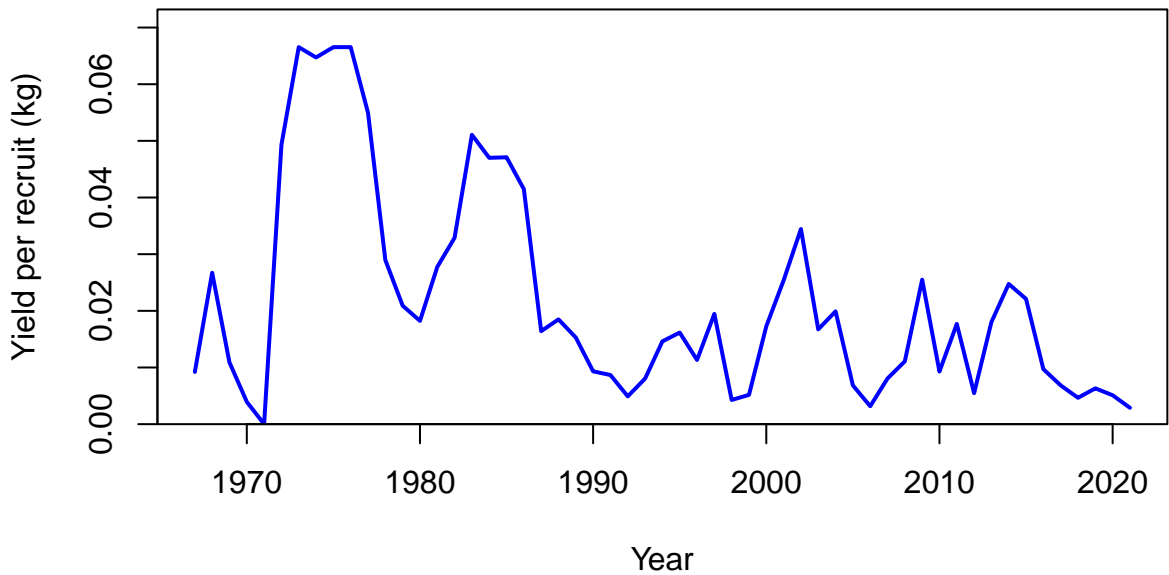
FISHERY (whole catch)

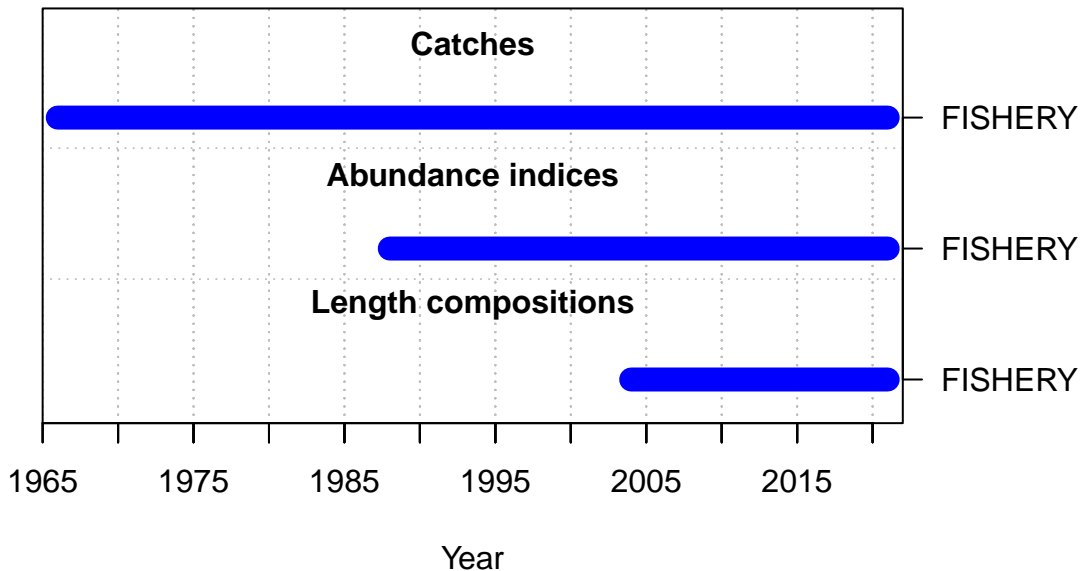


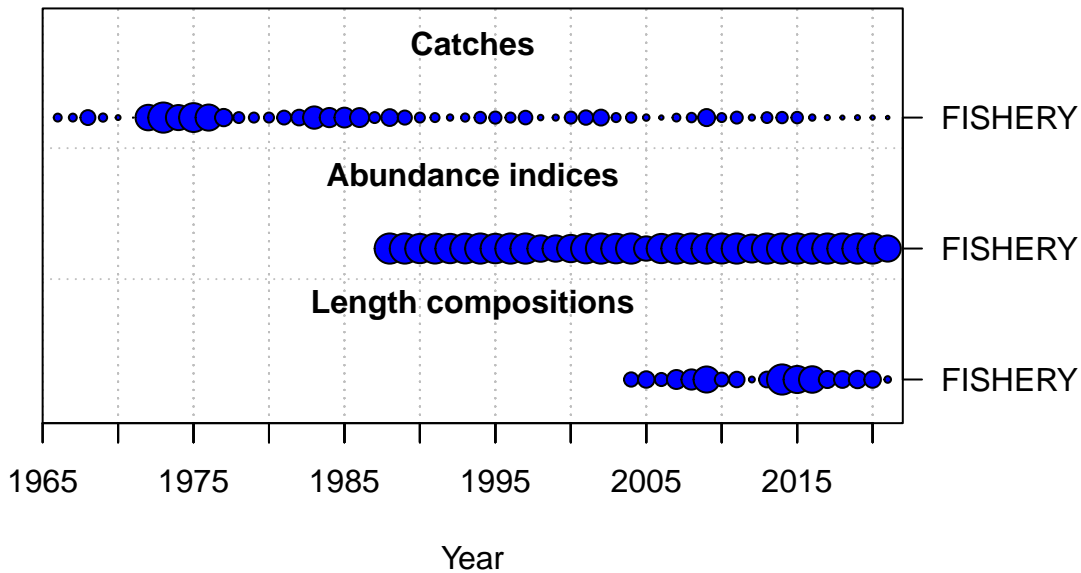




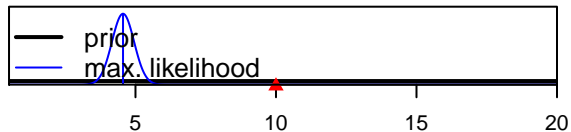




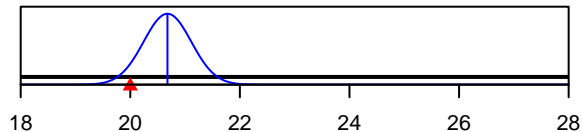




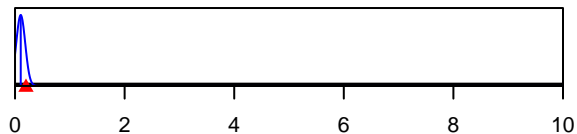
SR_LN(R0)



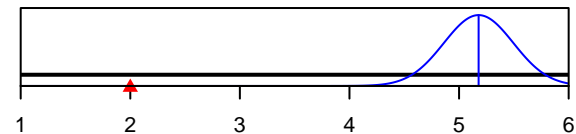
Size_inflection_FISHERY(1)



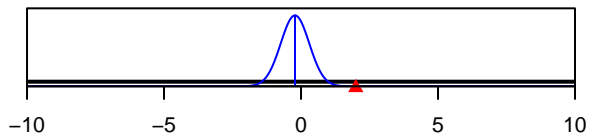
InitF_seas_1_flt_1FISHERY



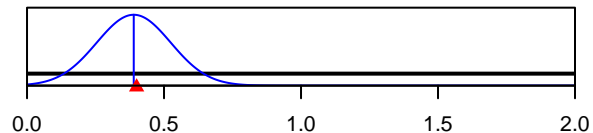
Size_95%width_FISHERY(1)



LnQ_base_FISHERY(1)



Q_extraSD_FISHERY(1)



Parameter value