

Plots created using the 'r4ss' package in R

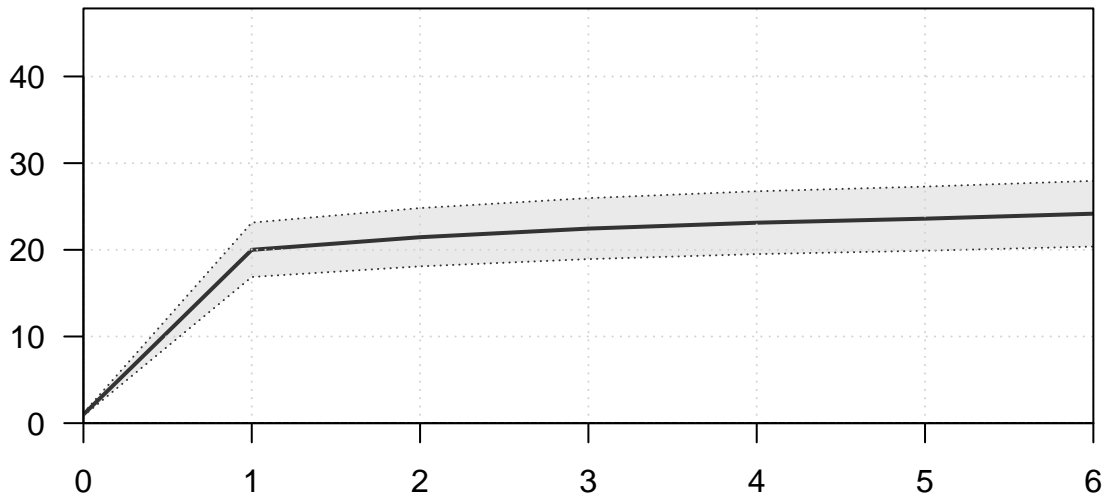
Stock Synthesis version: 3.30.19.0

StartTime: Wed Jul 27 16:03:17 2022

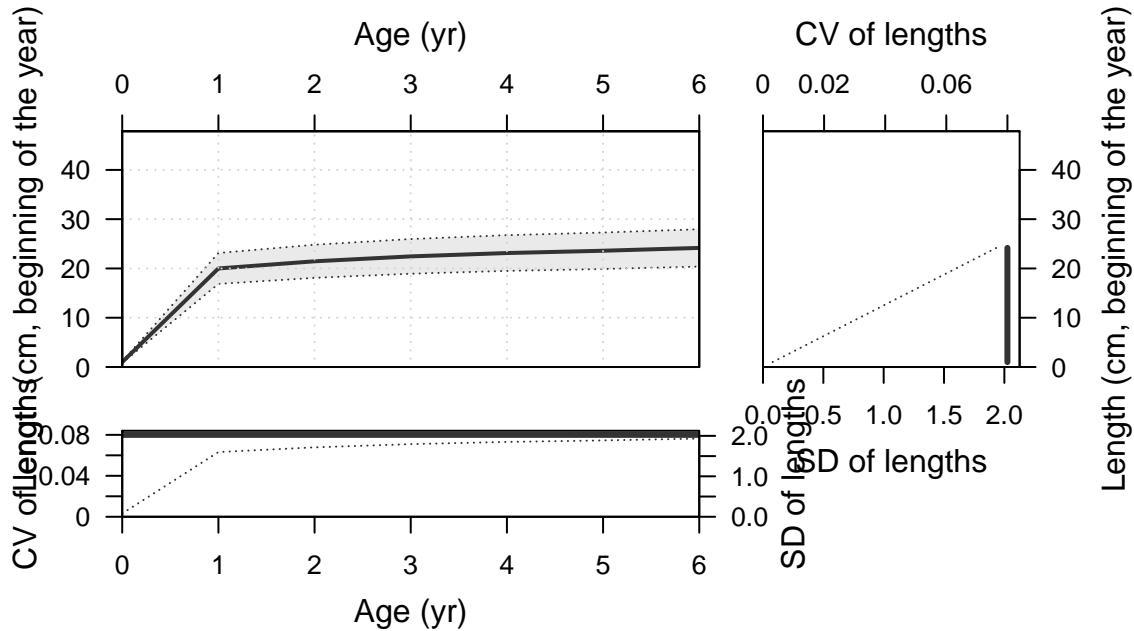
Data_File: data.ss

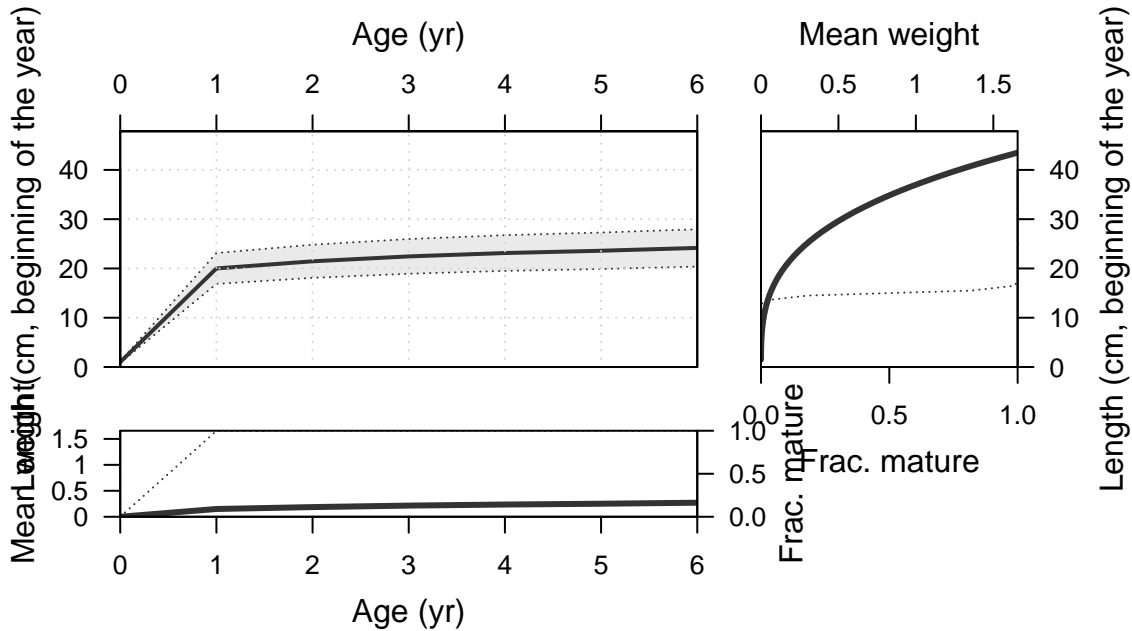
Control_File: control.ss

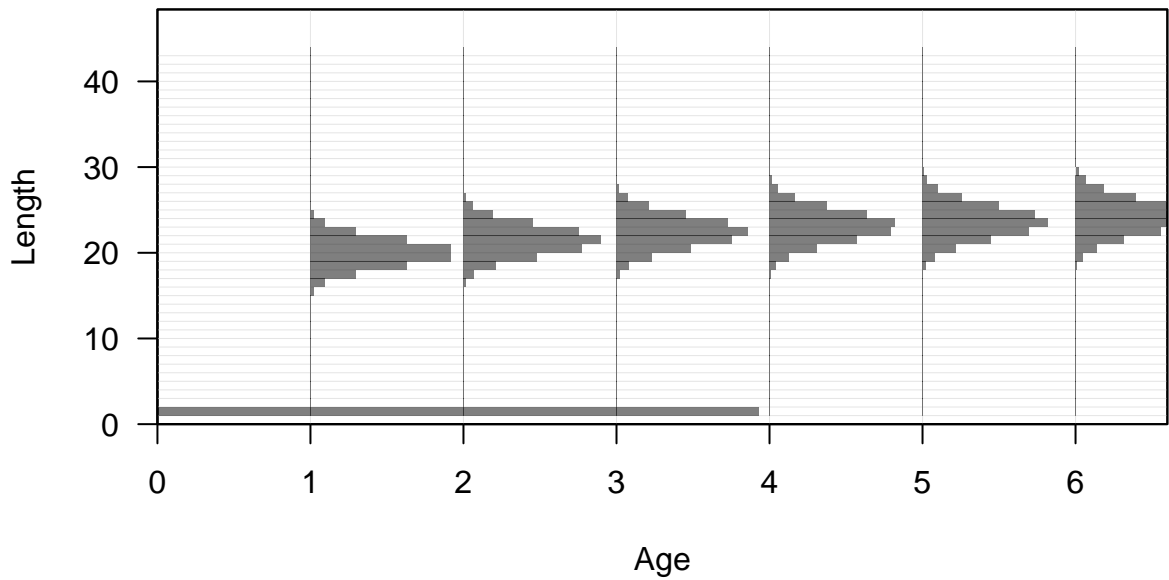
Length (cm, beginning of the year)

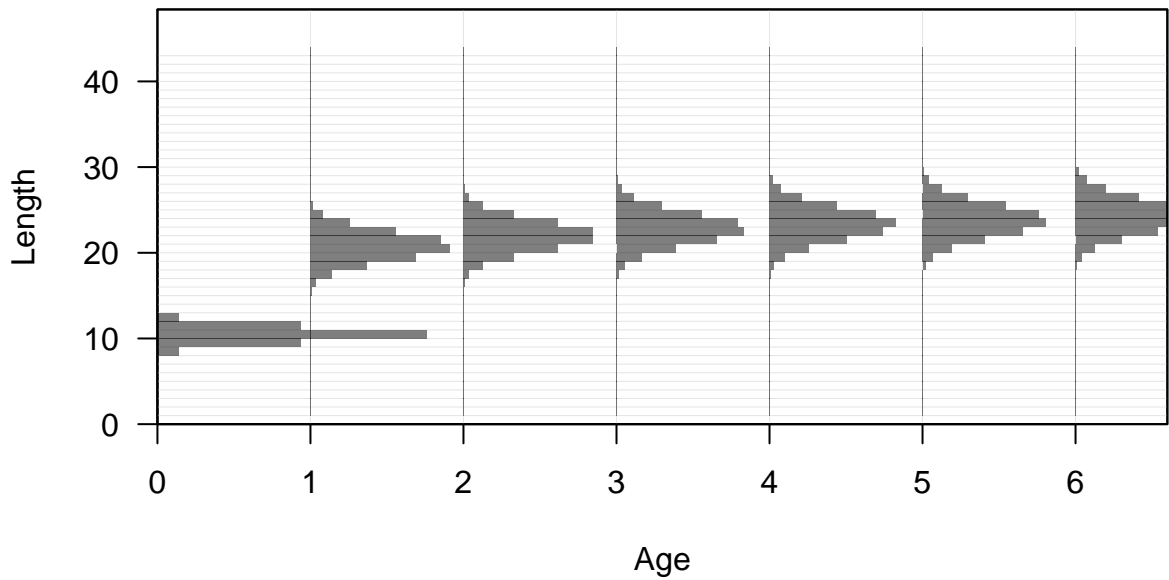


Age (yr)











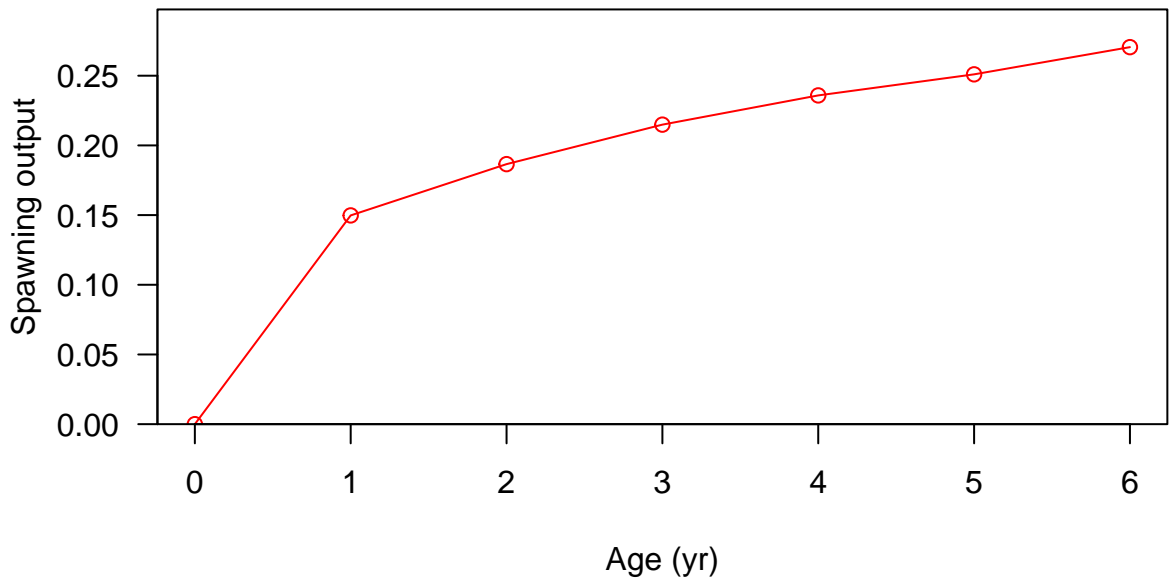




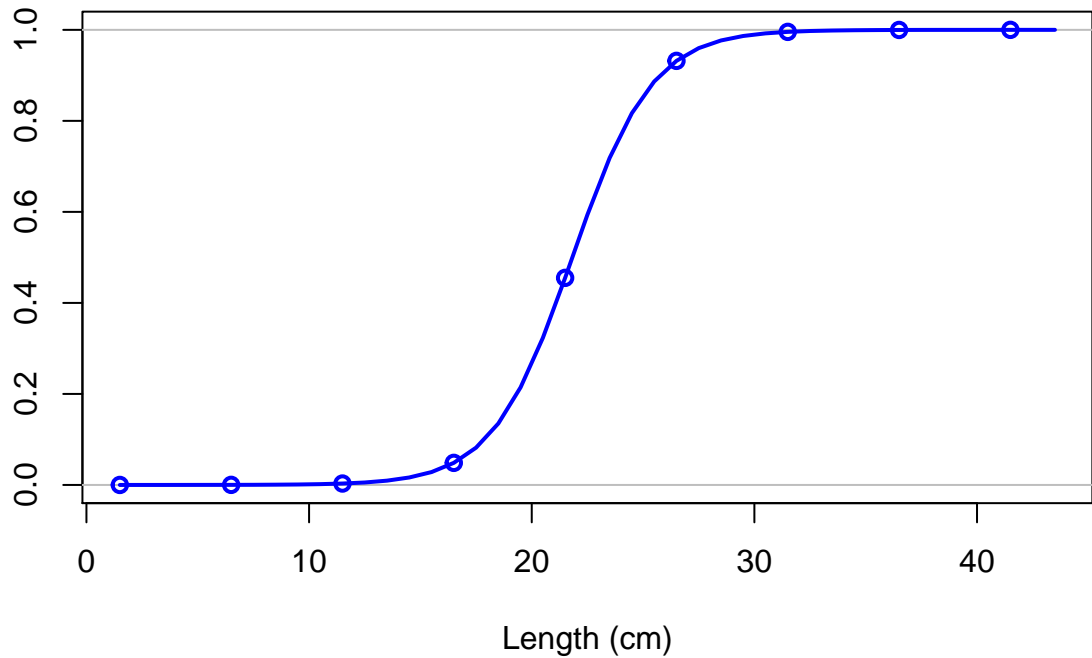




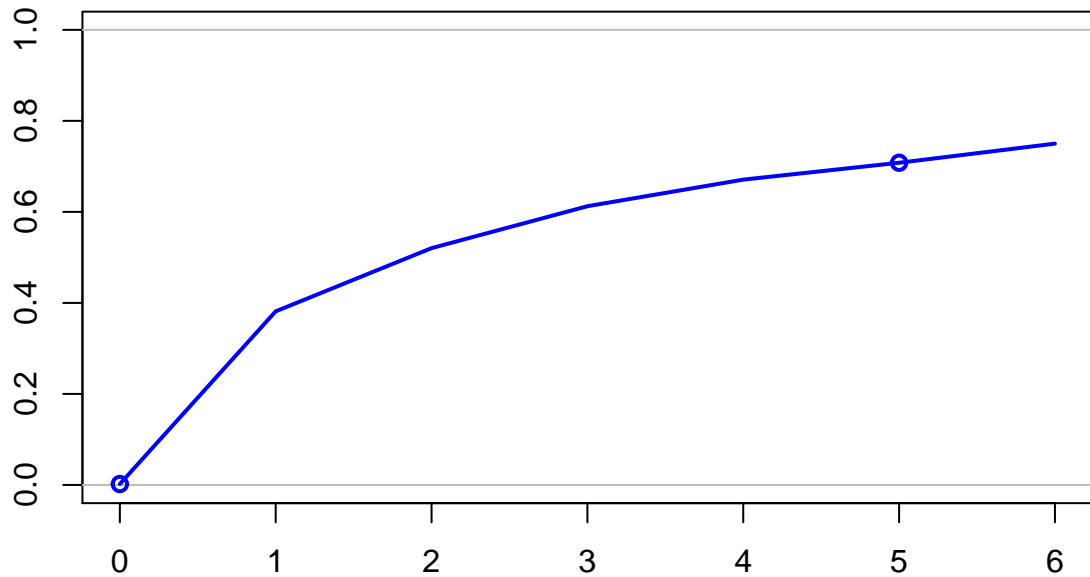




Selectivity

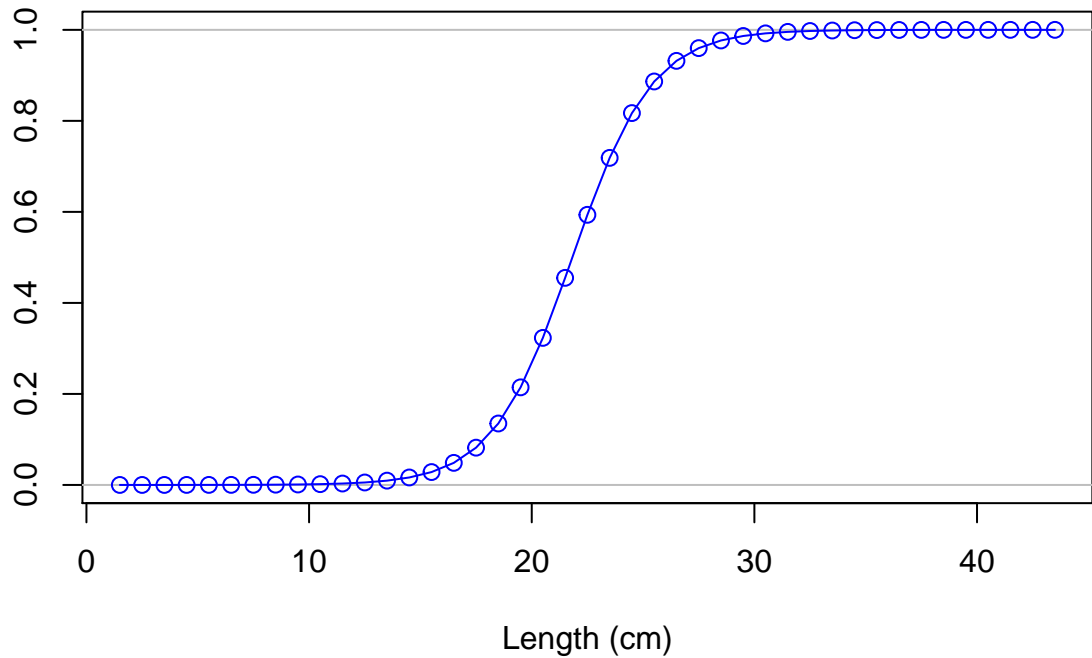


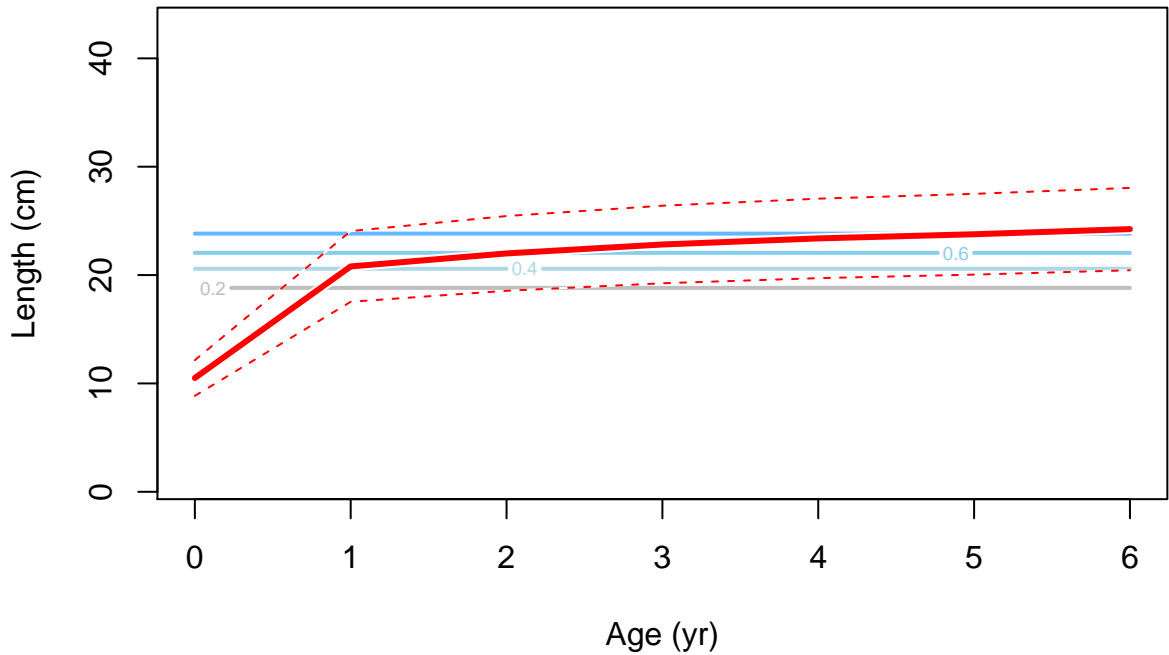
Selectivity

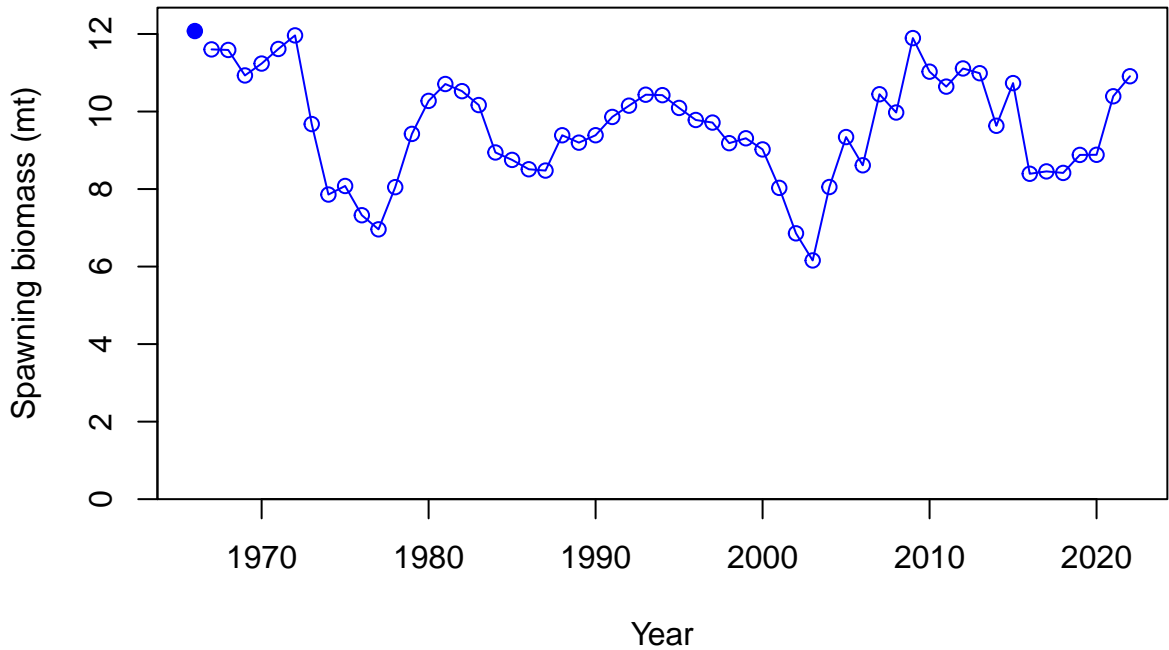


Age (yr)

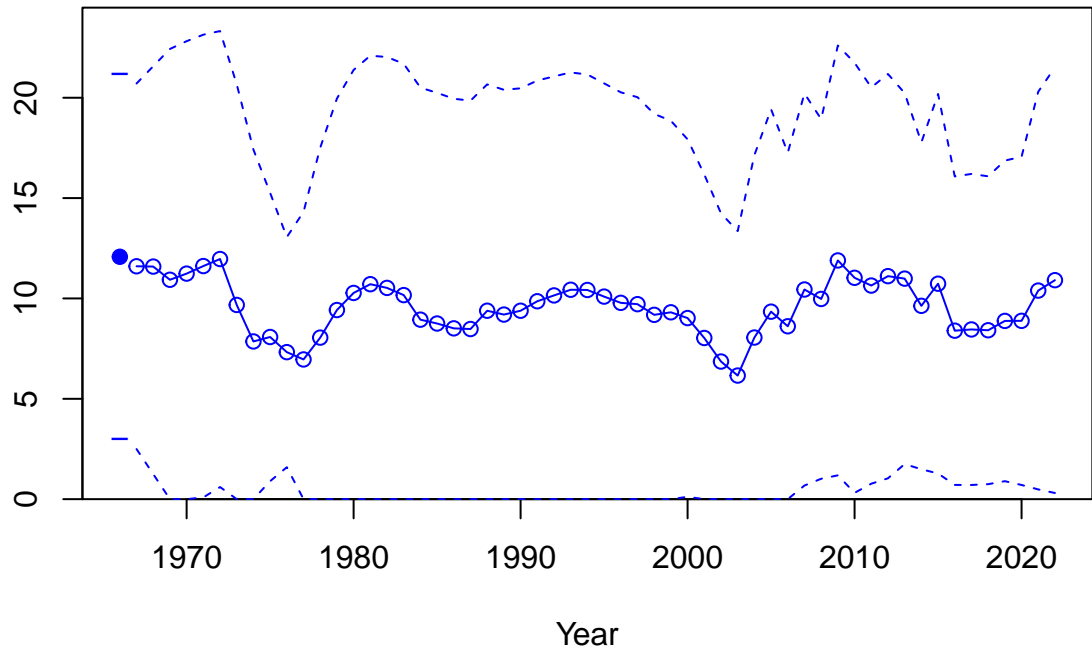
Selectivity



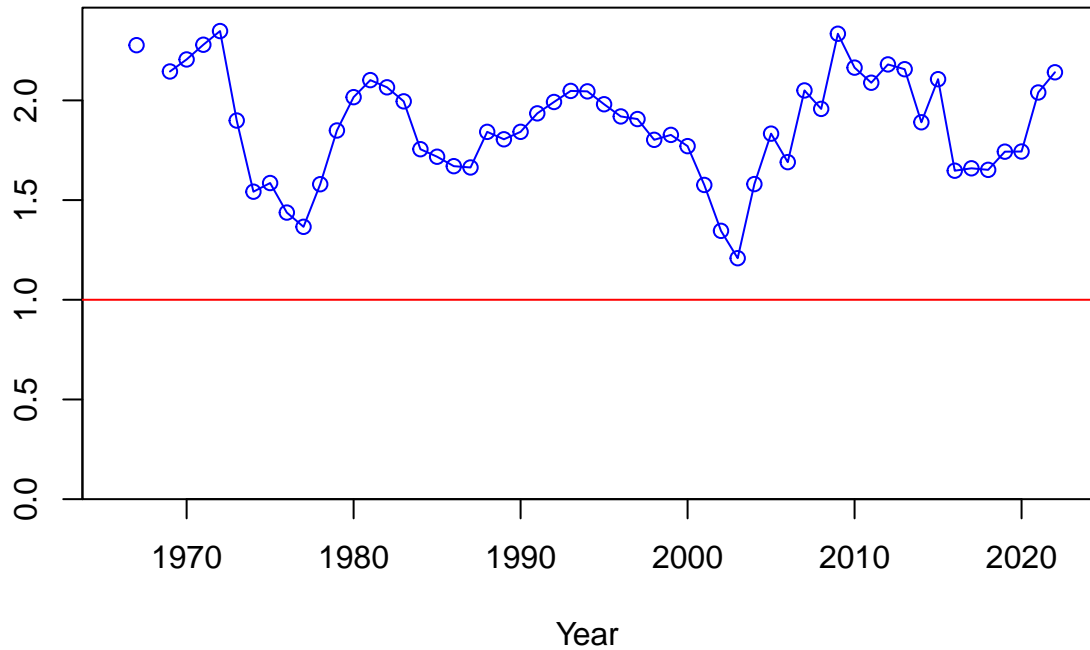




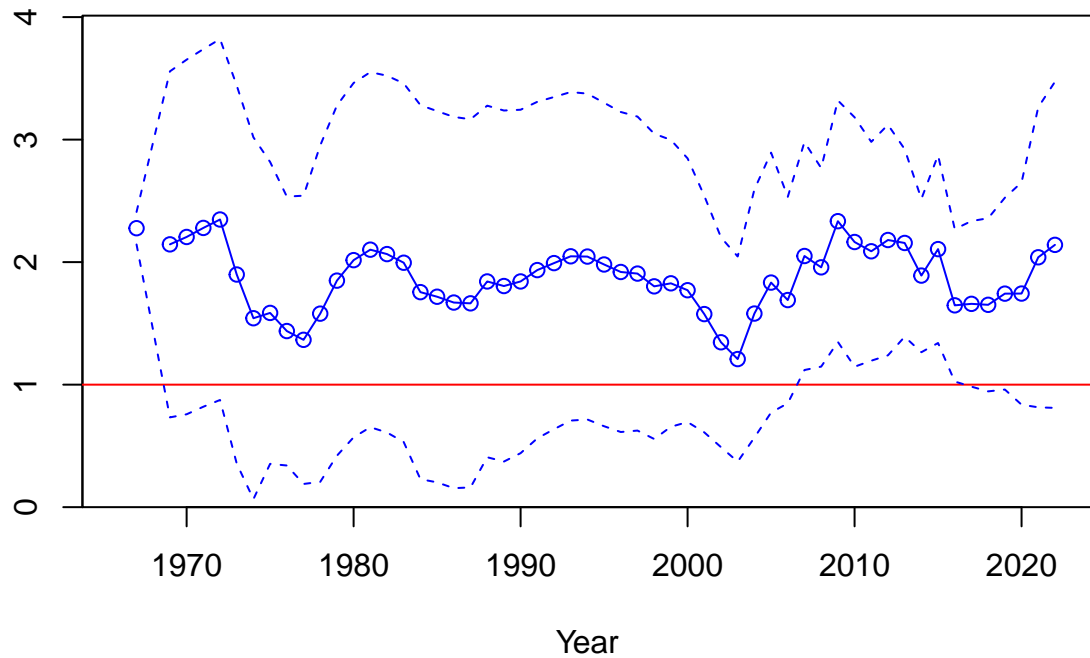
Spawning biomass (mt)

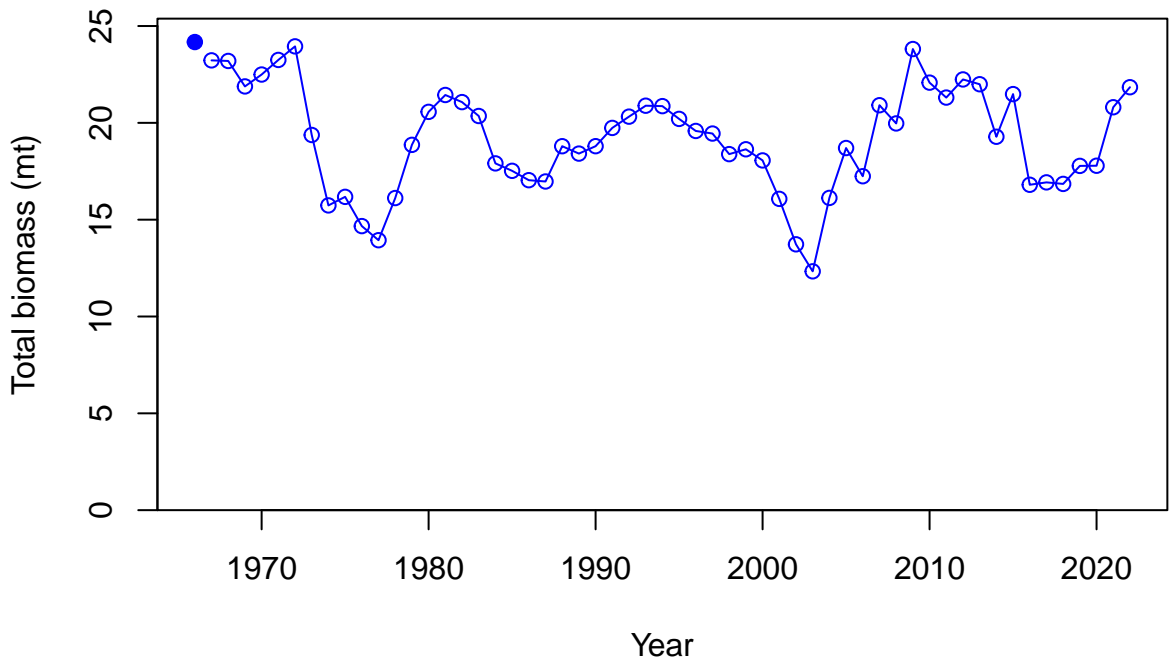


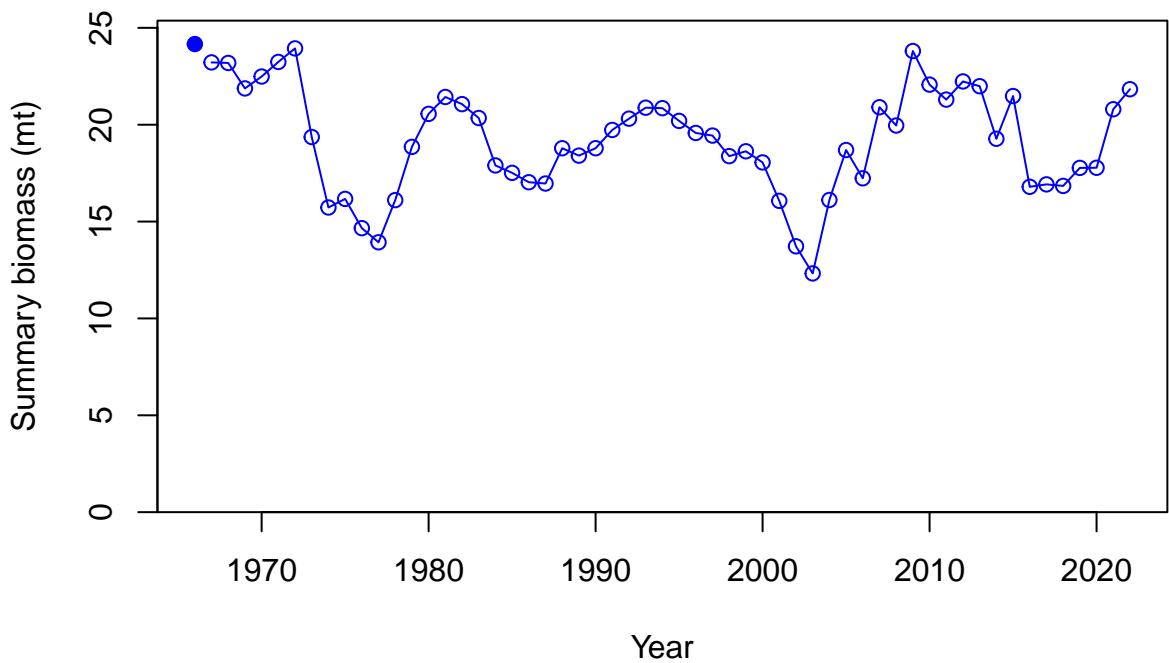
Relative spawning biomass: B/B_{MSY}

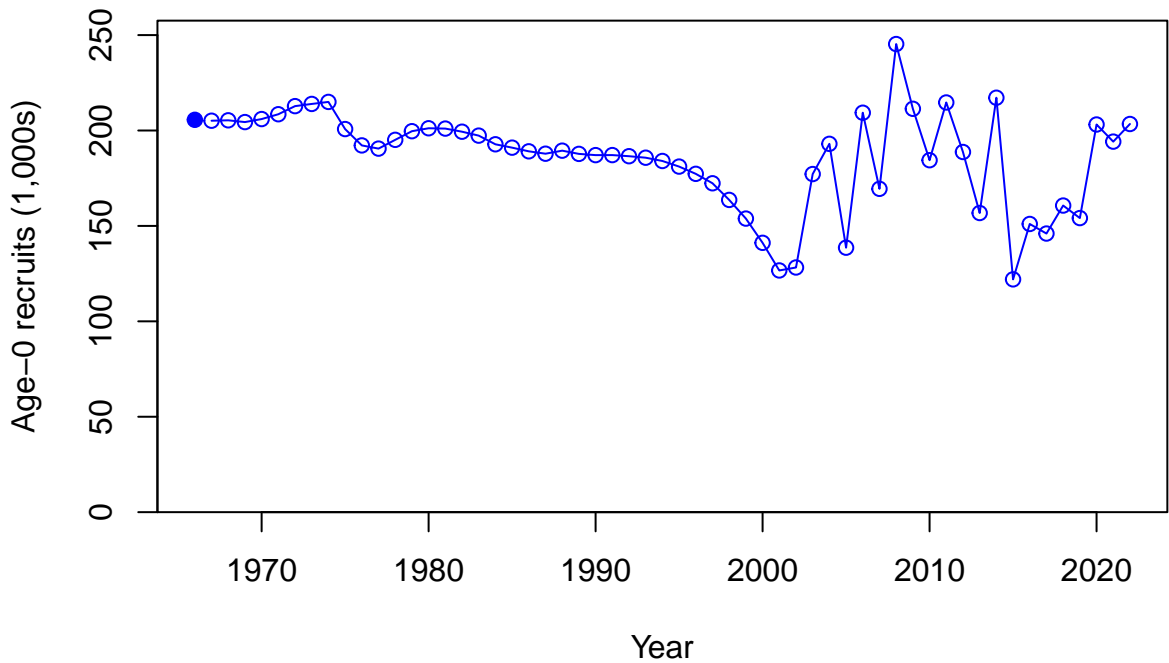


Relative spawning biomass: B/B_{MSY}

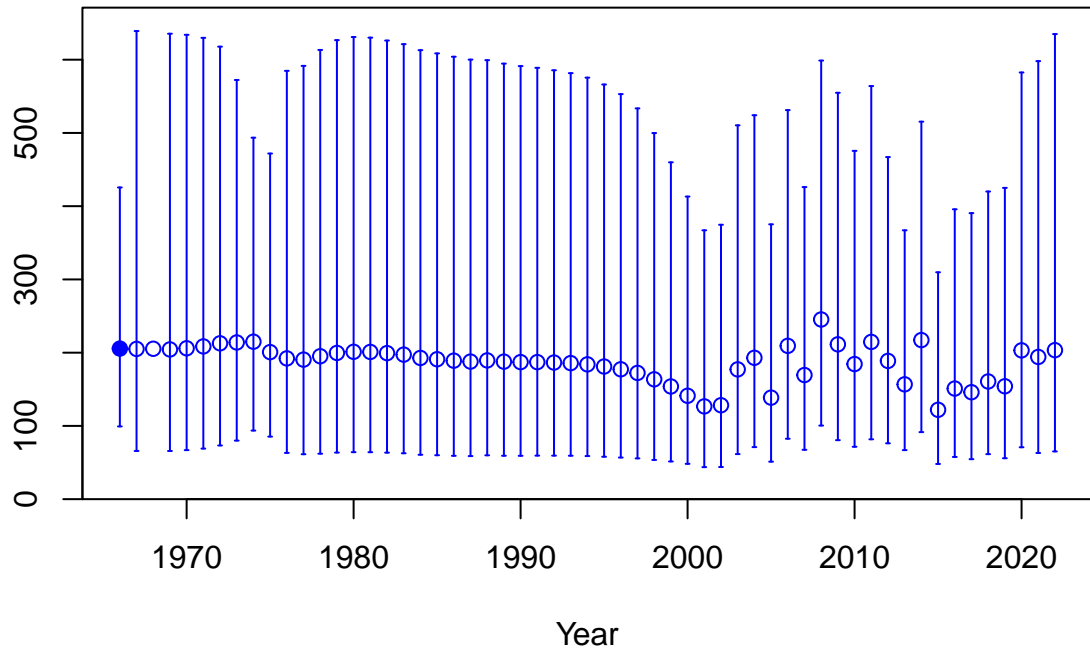




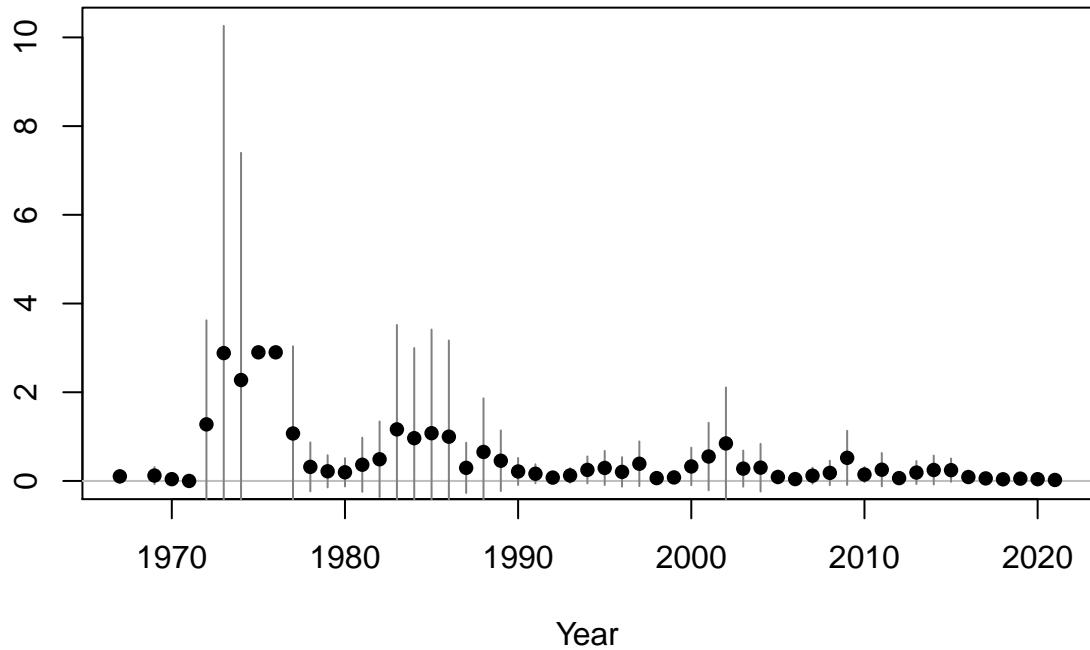


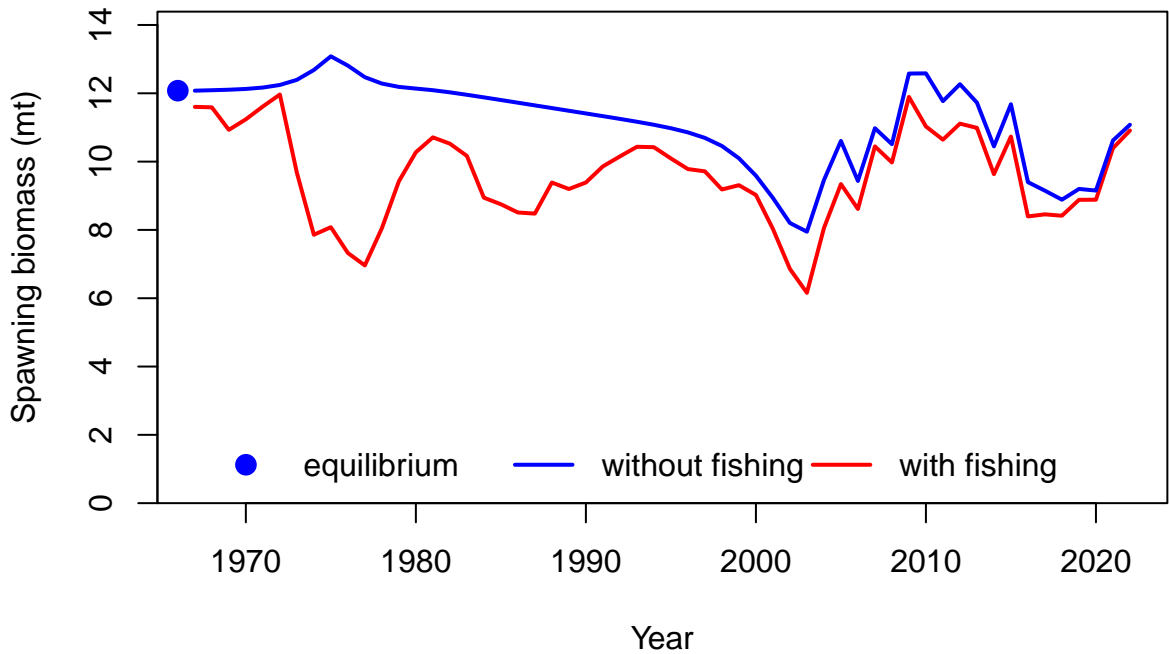


Age-0 recruits (1,000s)

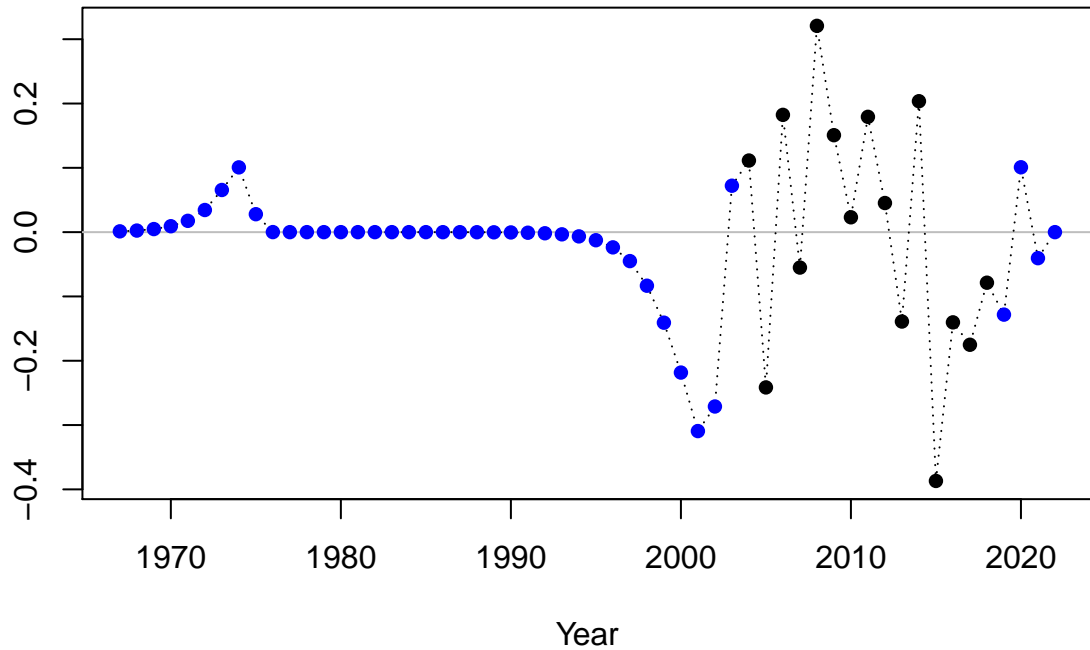


Summary Fishing Mortality

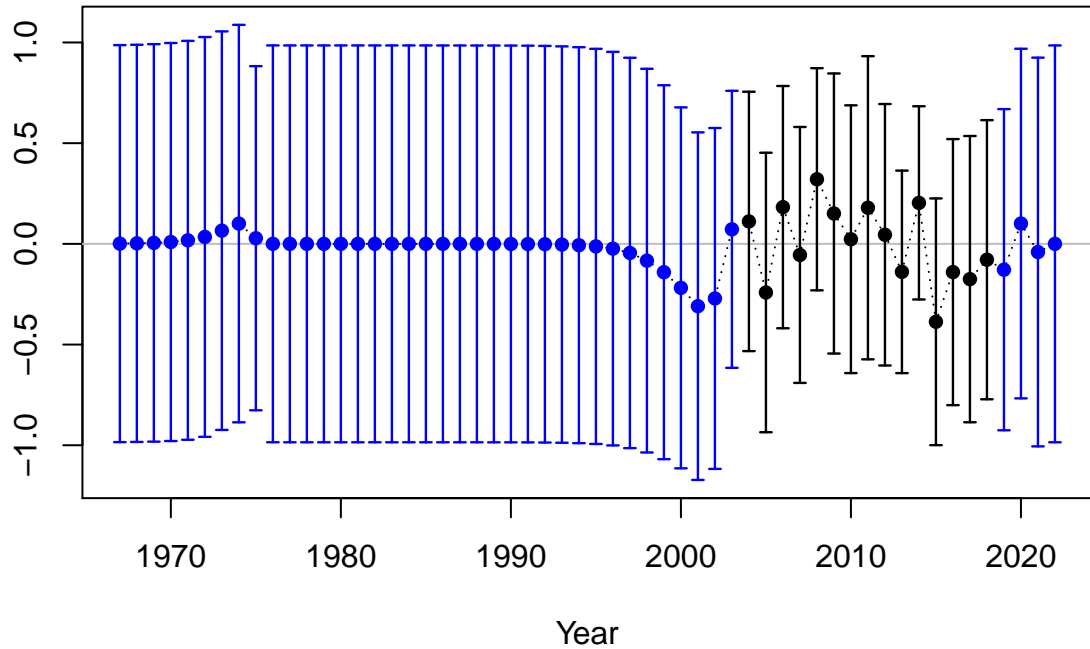




Log recruitment deviation

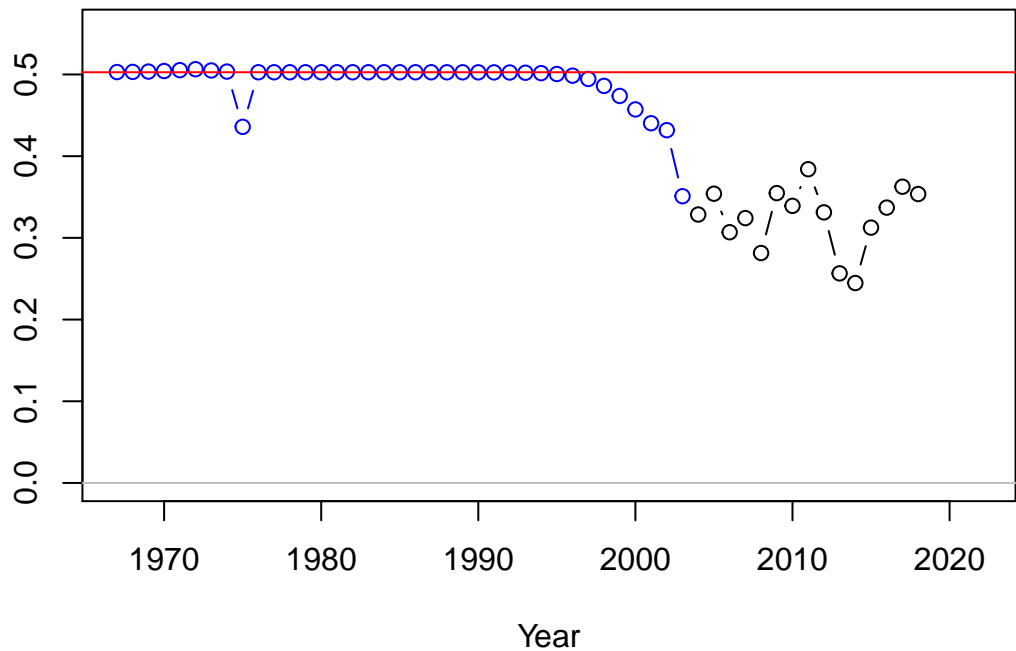


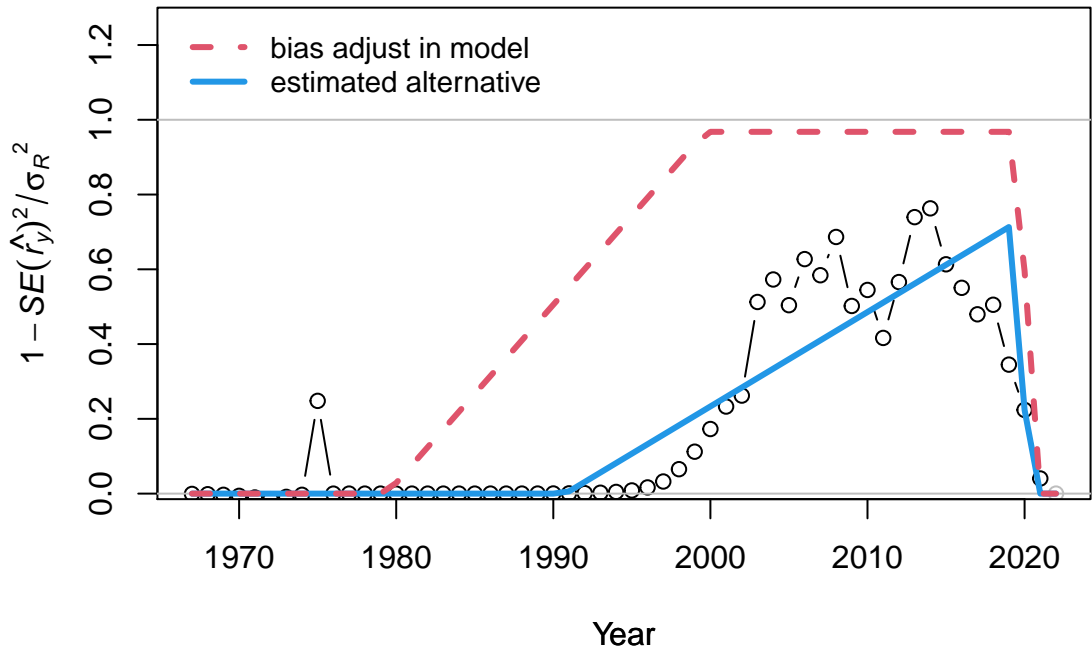
Log recruitment deviation

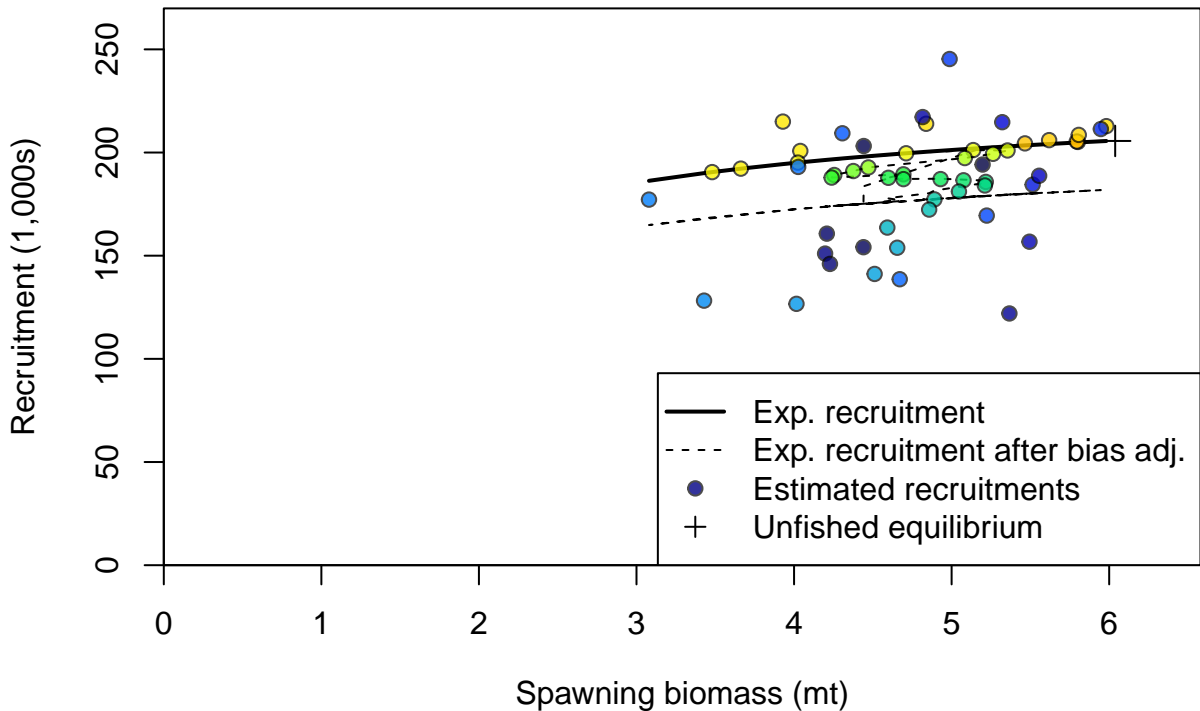


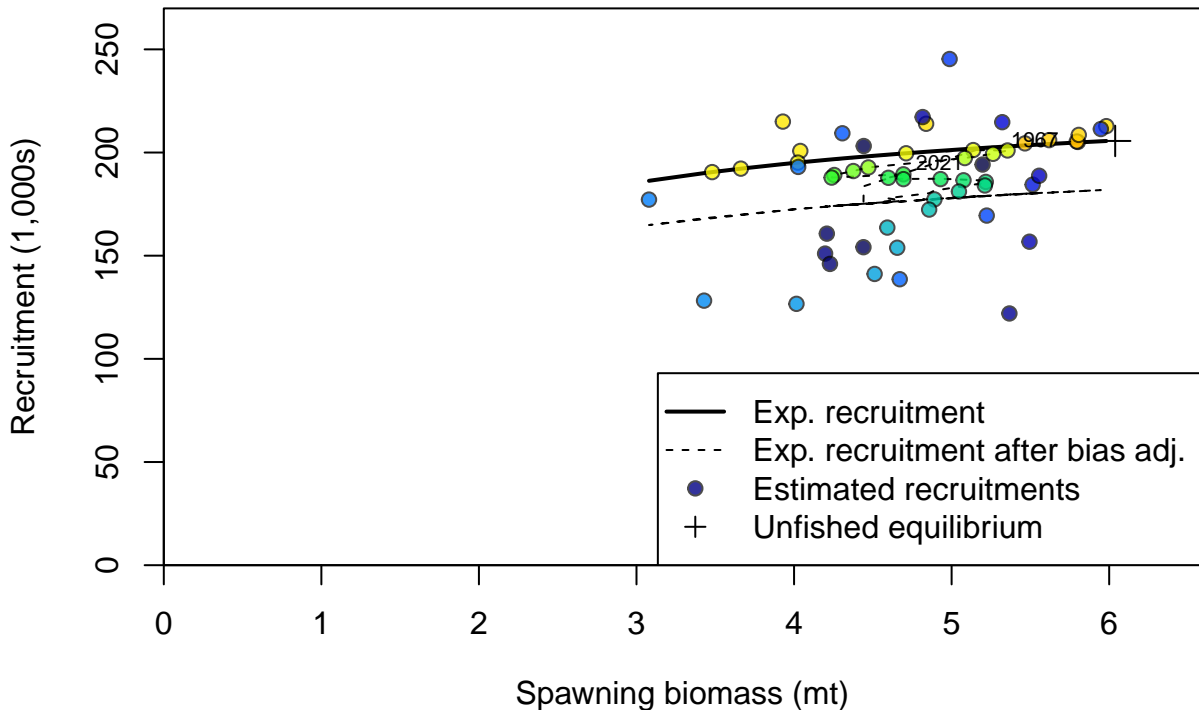
Recruitment deviation variance

Asymptotic standard error estimate

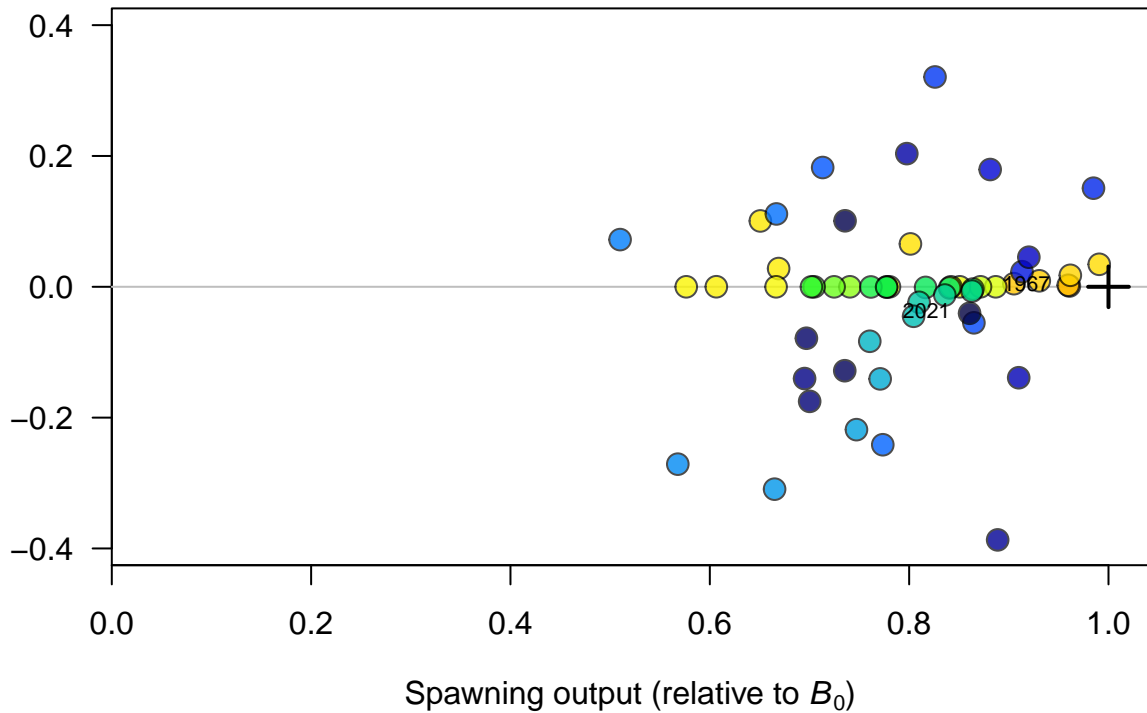


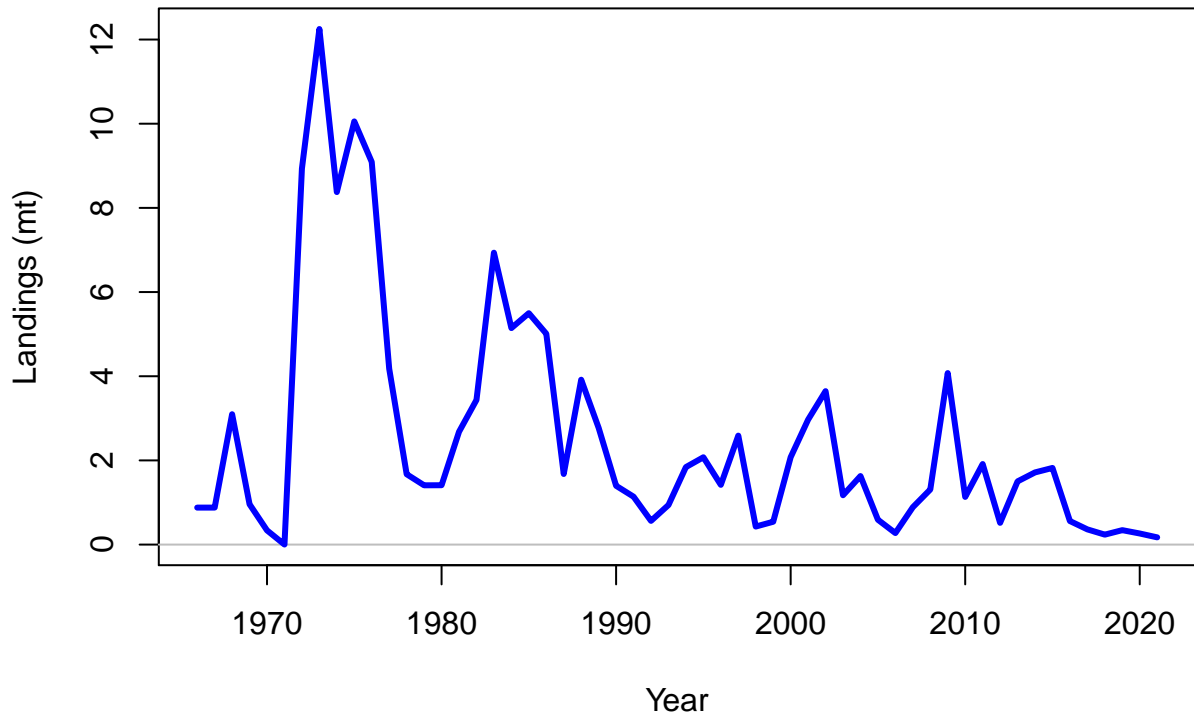


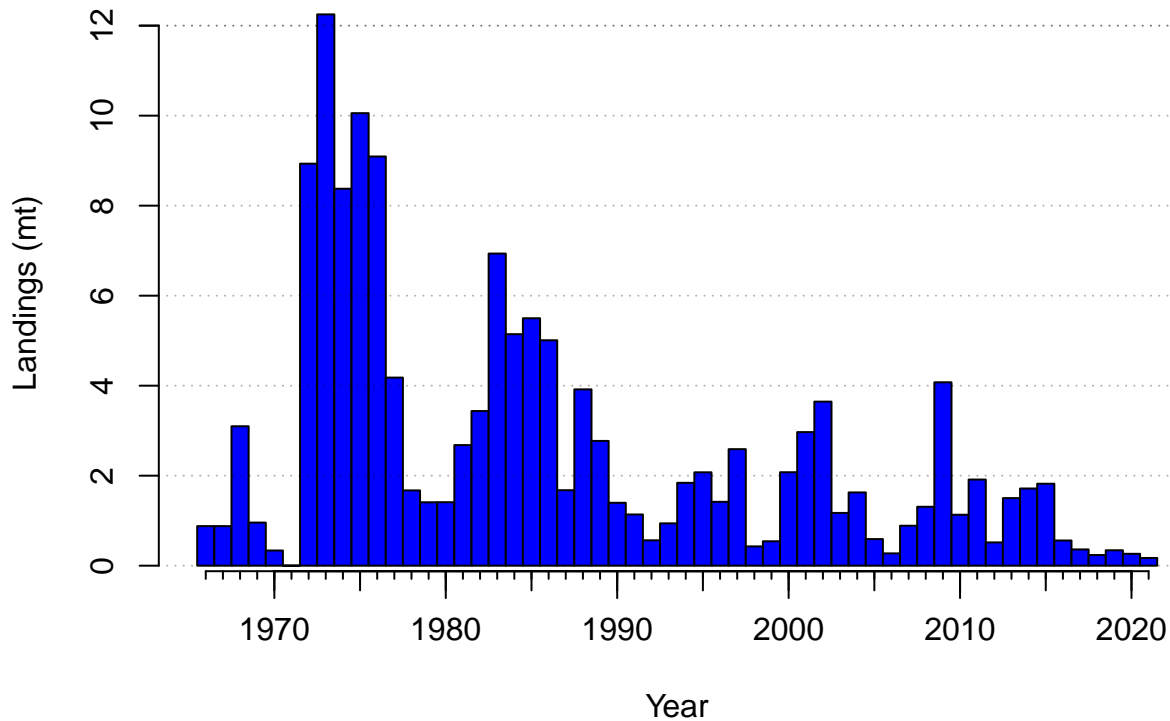


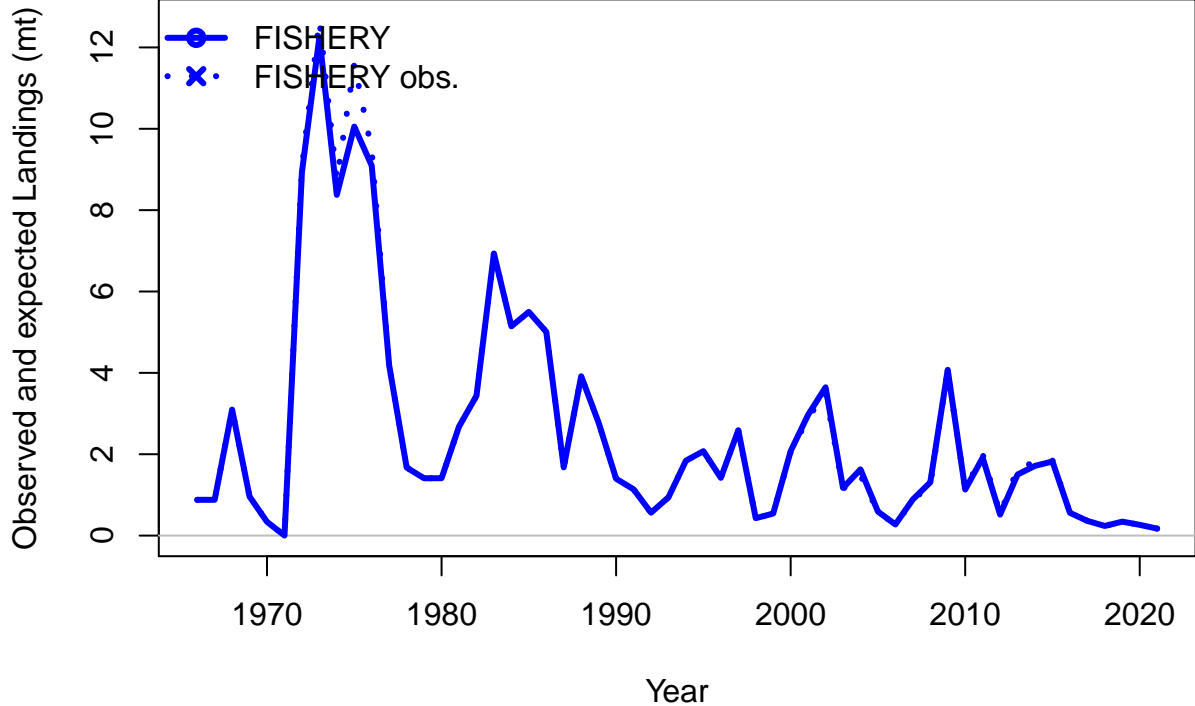


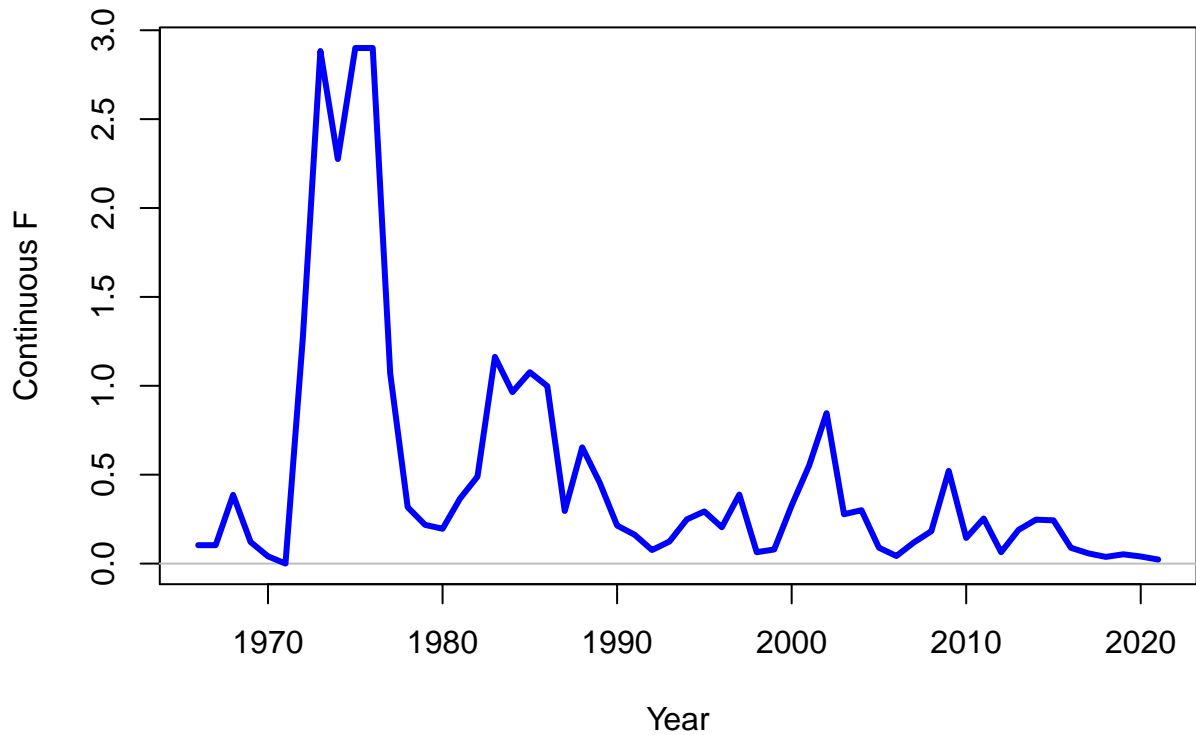
Log recruitment deviation



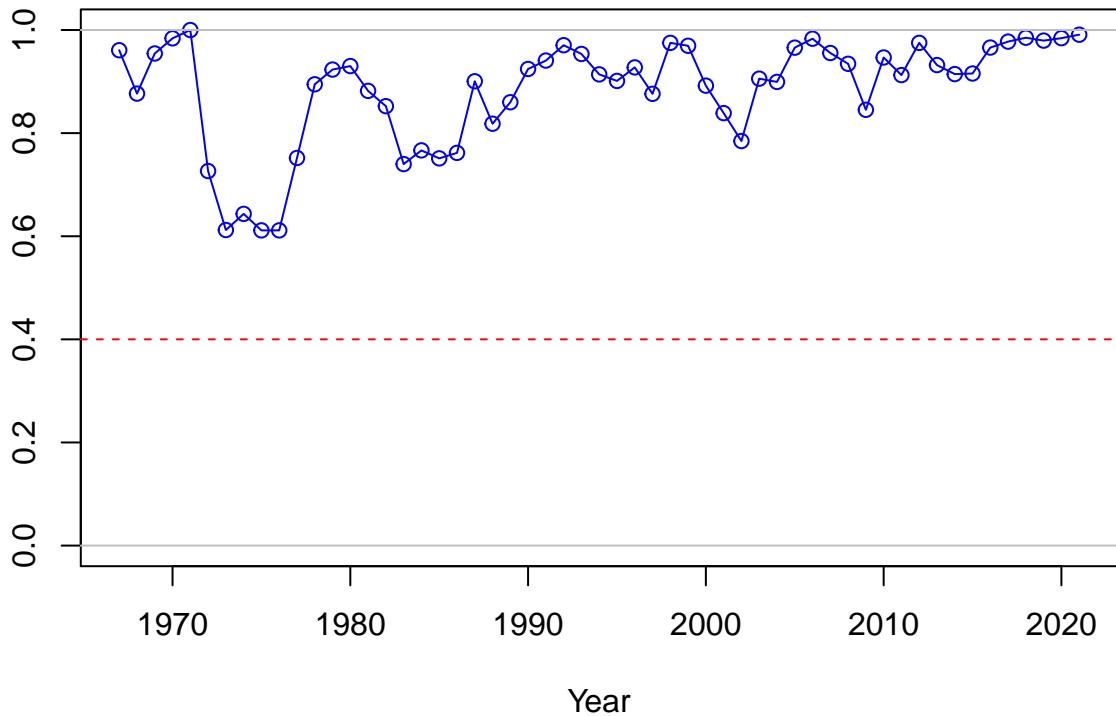




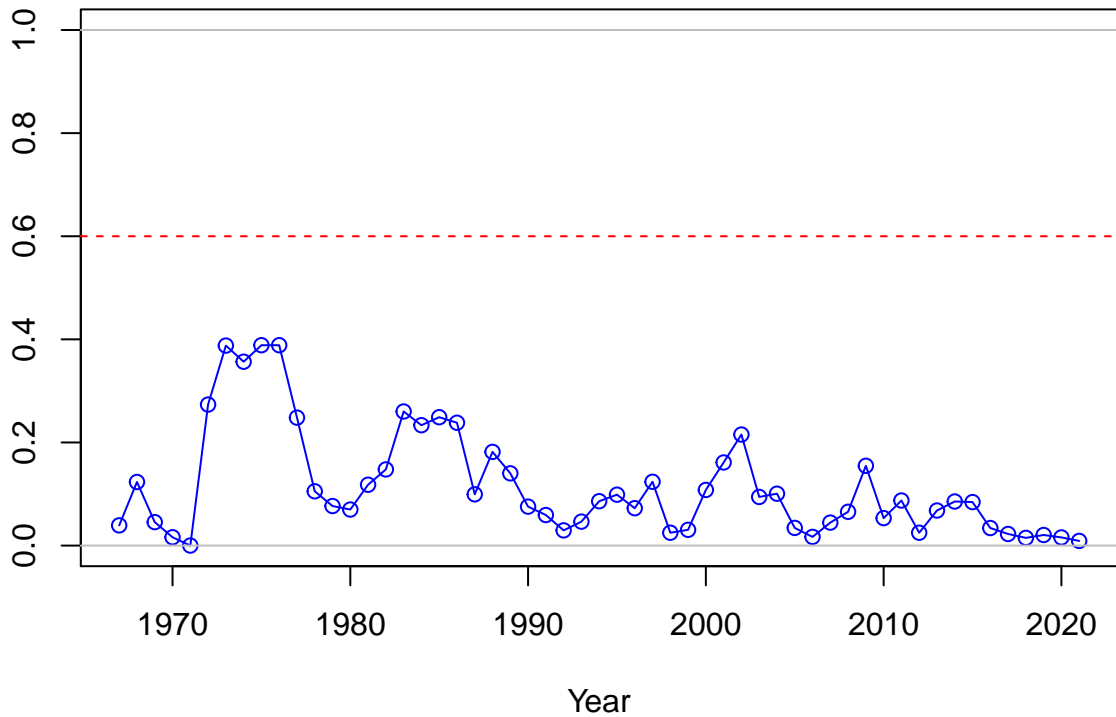




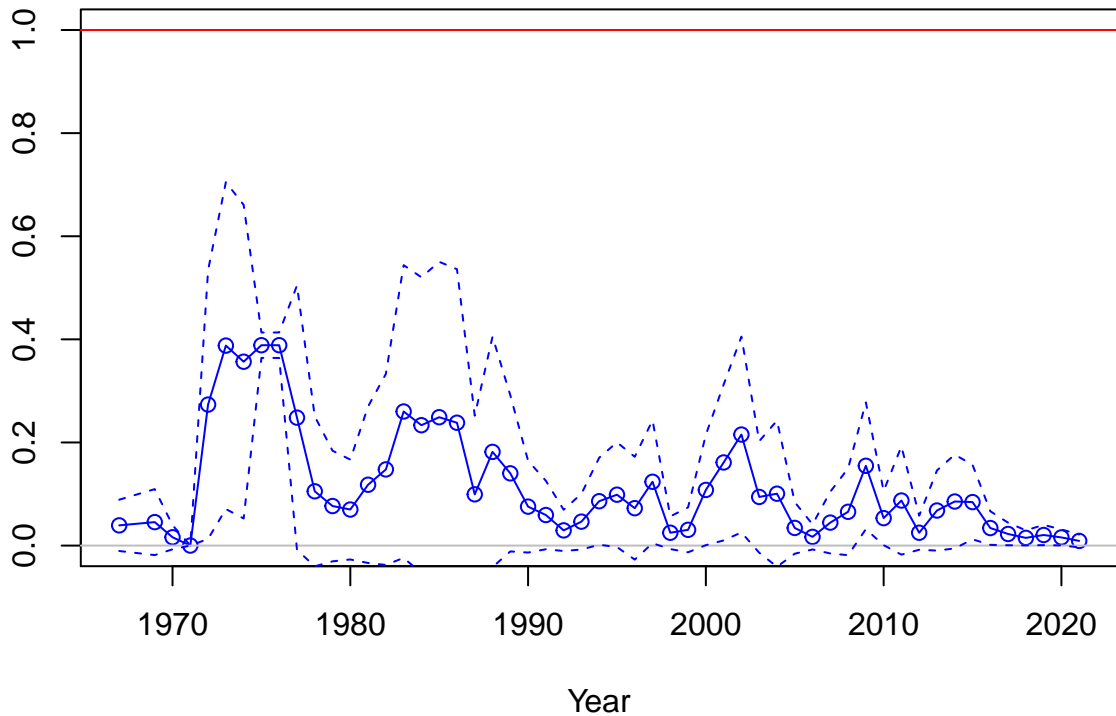
SPR



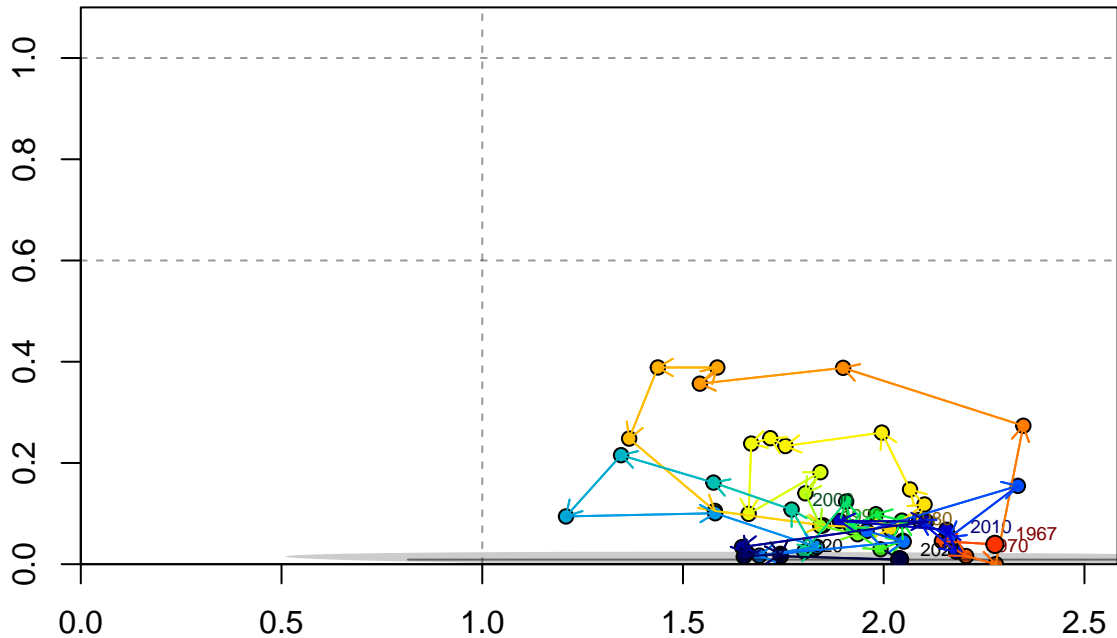
1-SPR



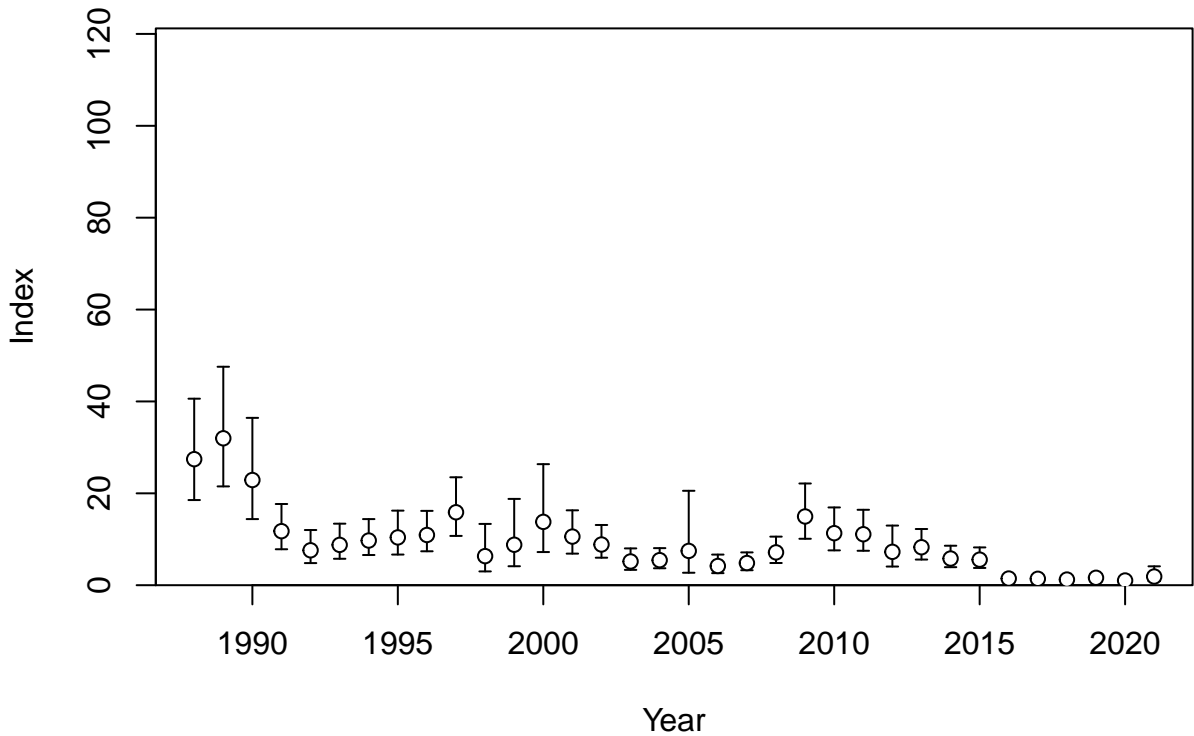
Fishing intensity: 1-SPR

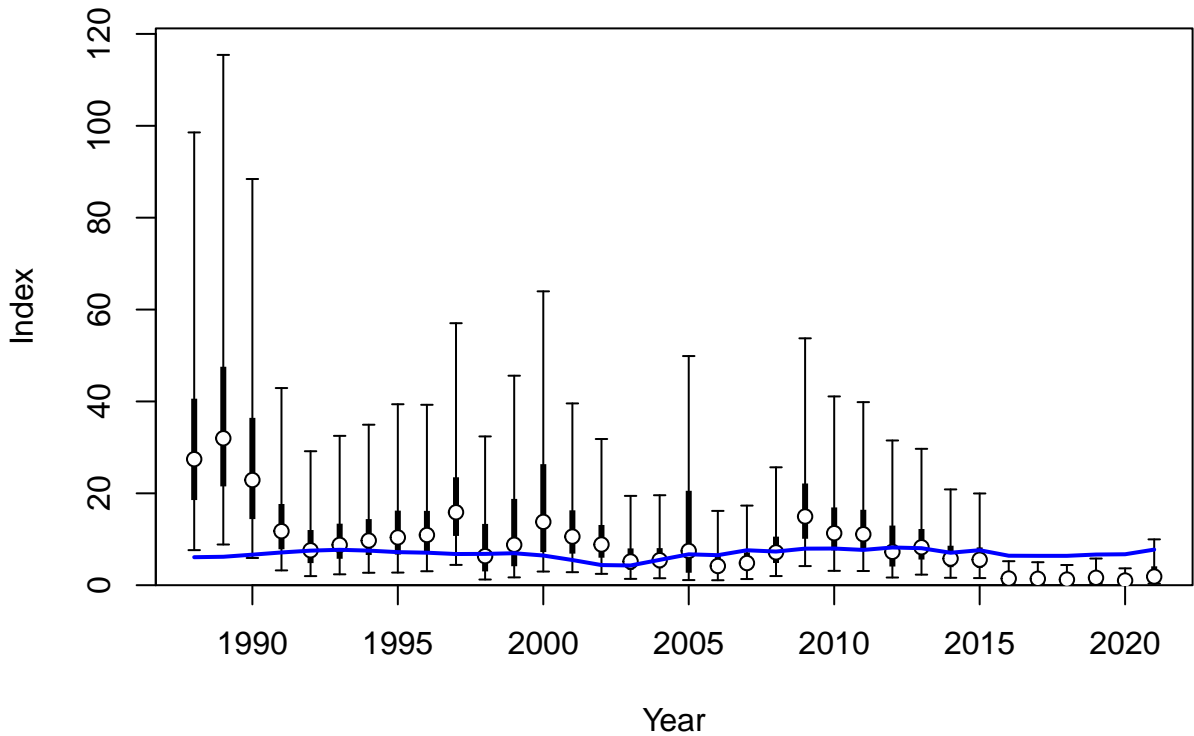


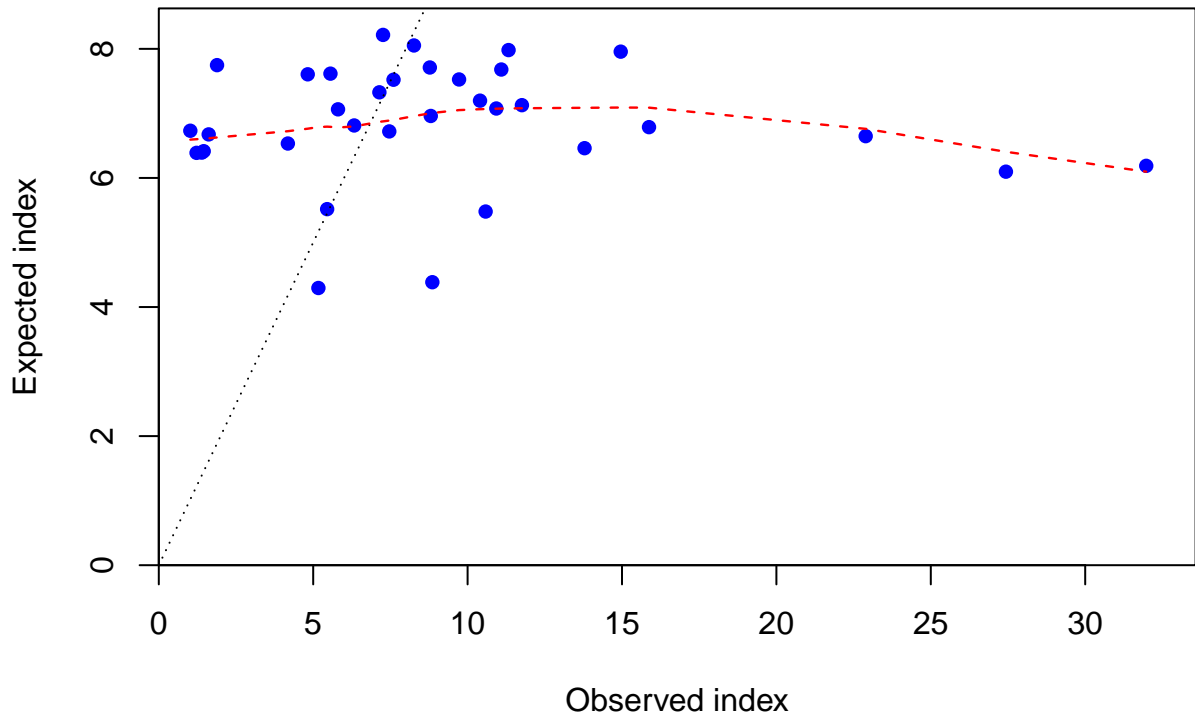
Fishing intensity: 1-SPR



Relative spawning output: B/B_{MSY}







Log index

4
3
2
1
0
-1

1990

1995

2000

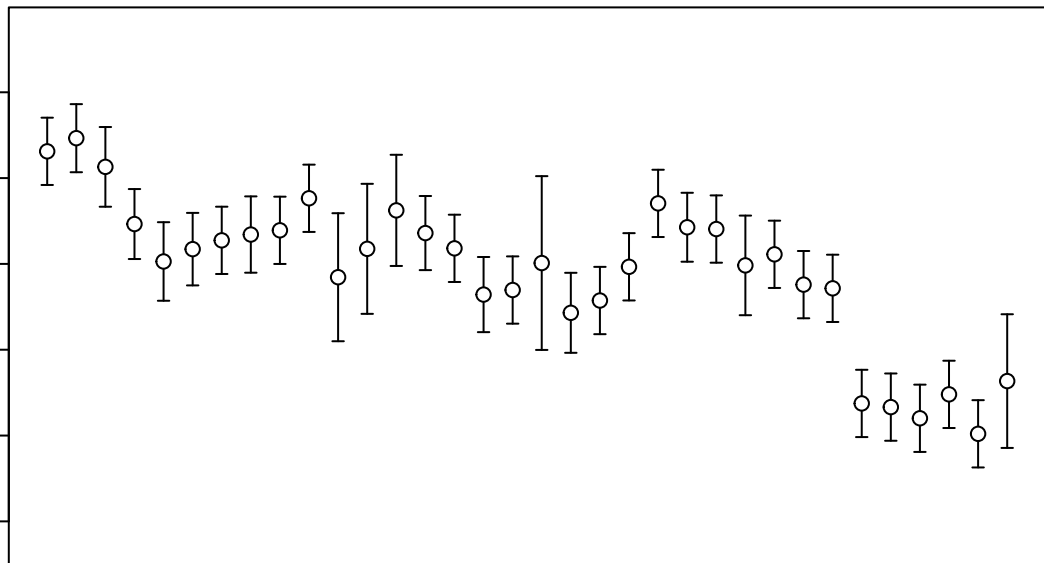
2005

2010

2015

2020

Year



Log index

4
3
2
1
0
-1

1990

1995

2000

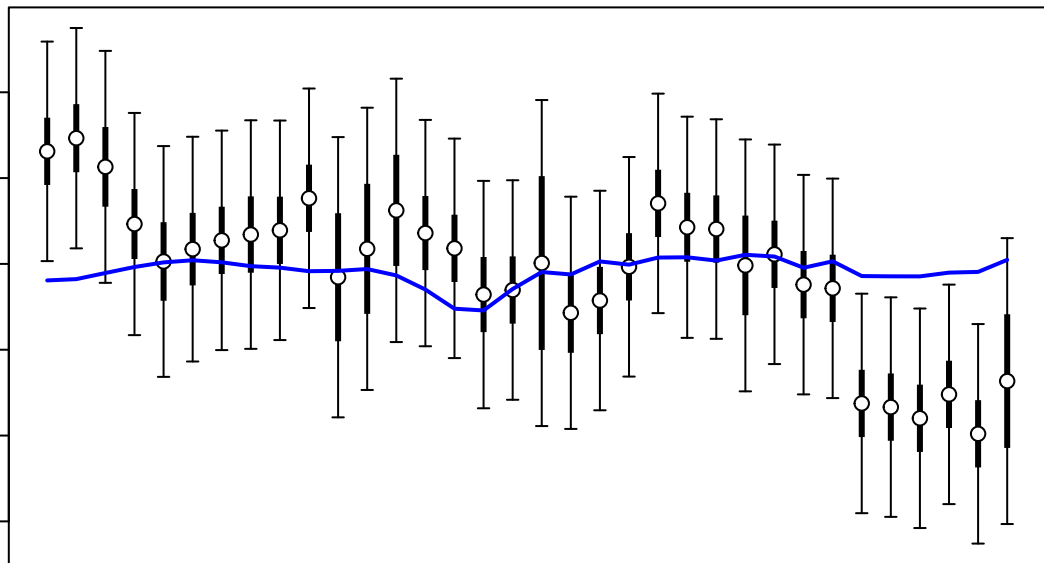
2005

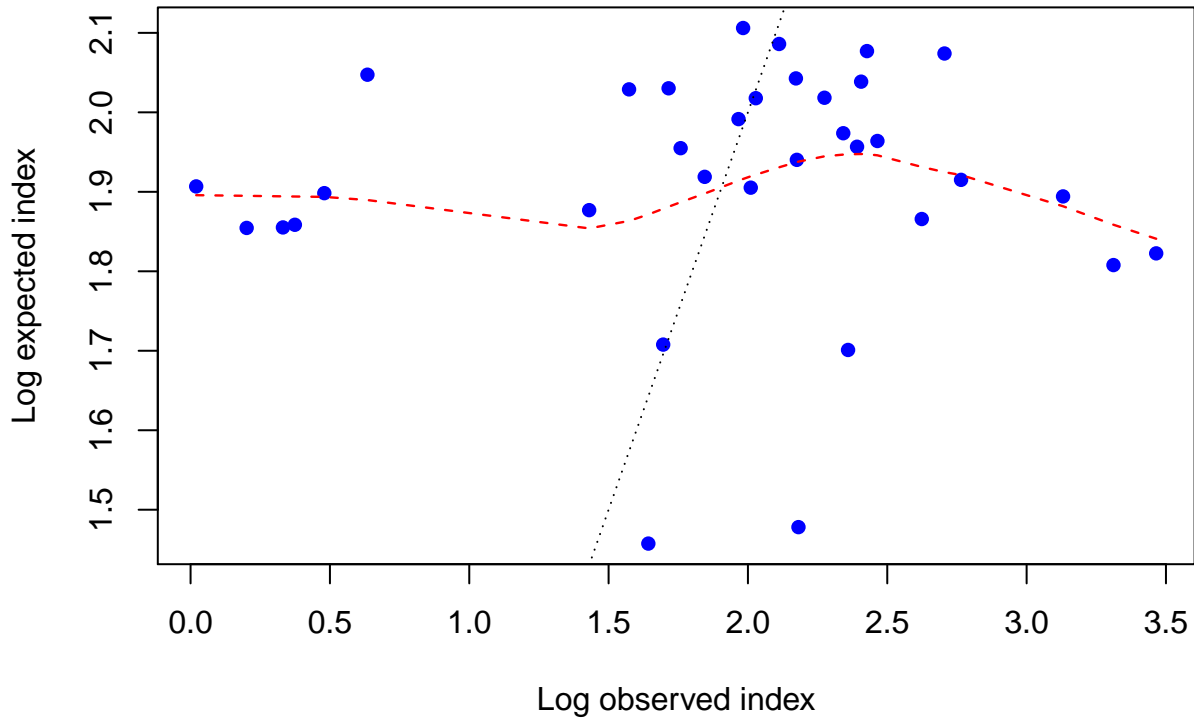
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2015

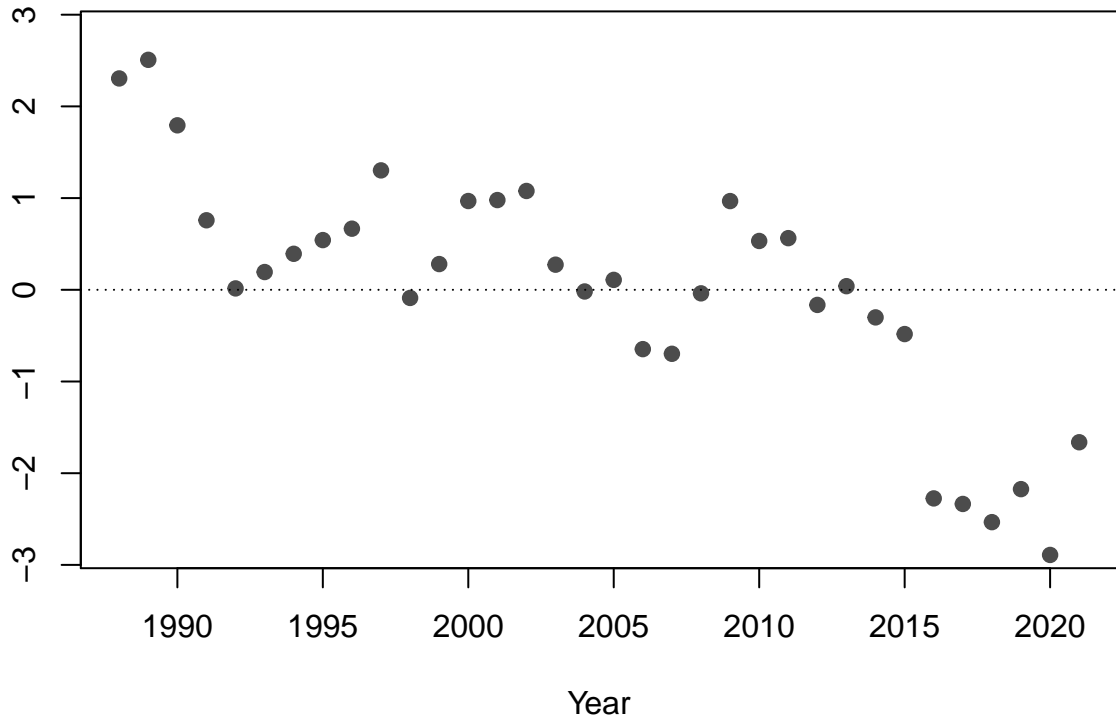
2020

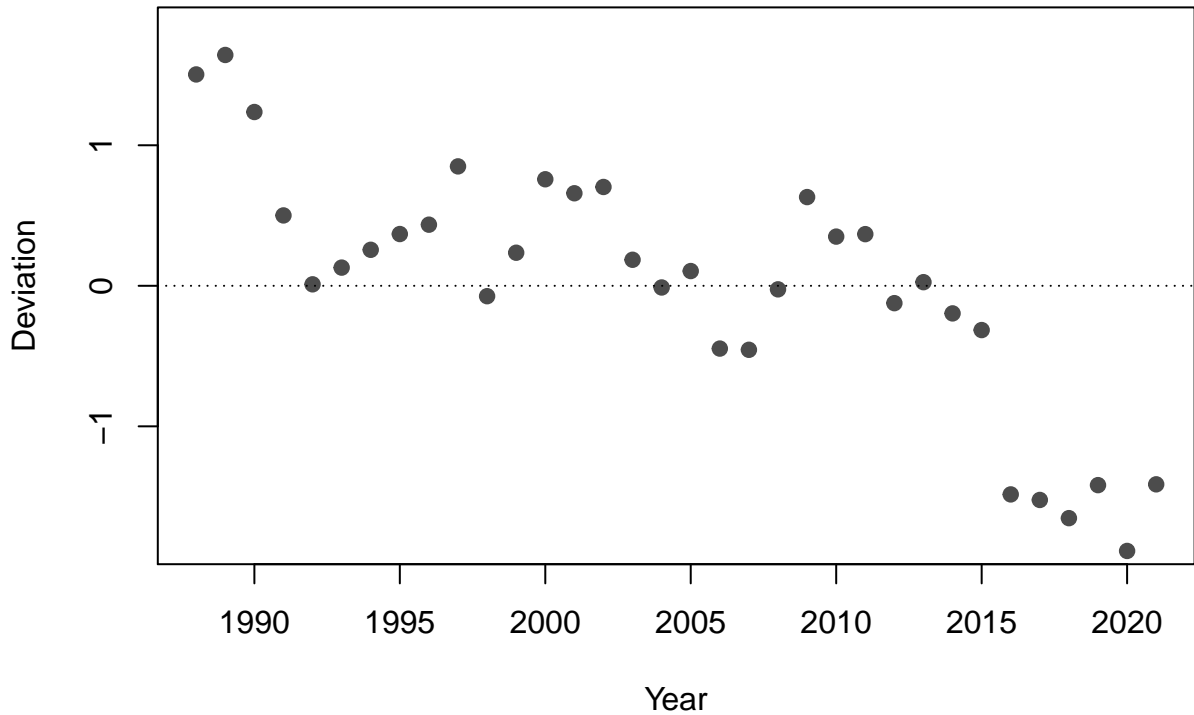
Year

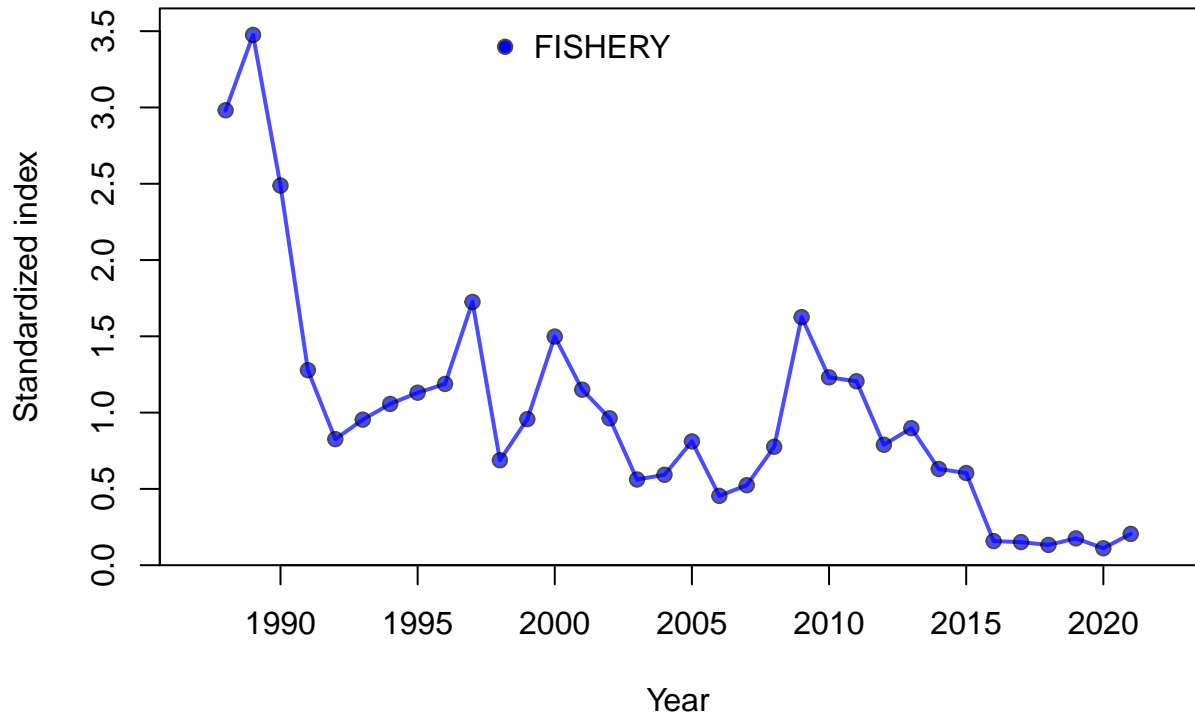




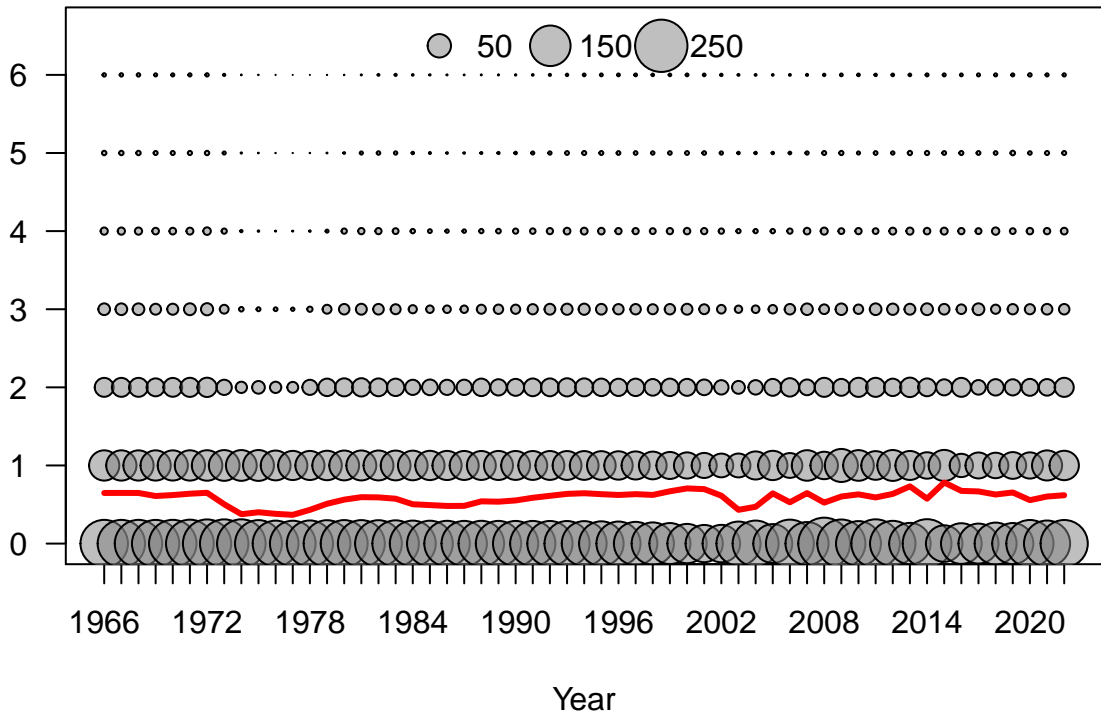
Residual



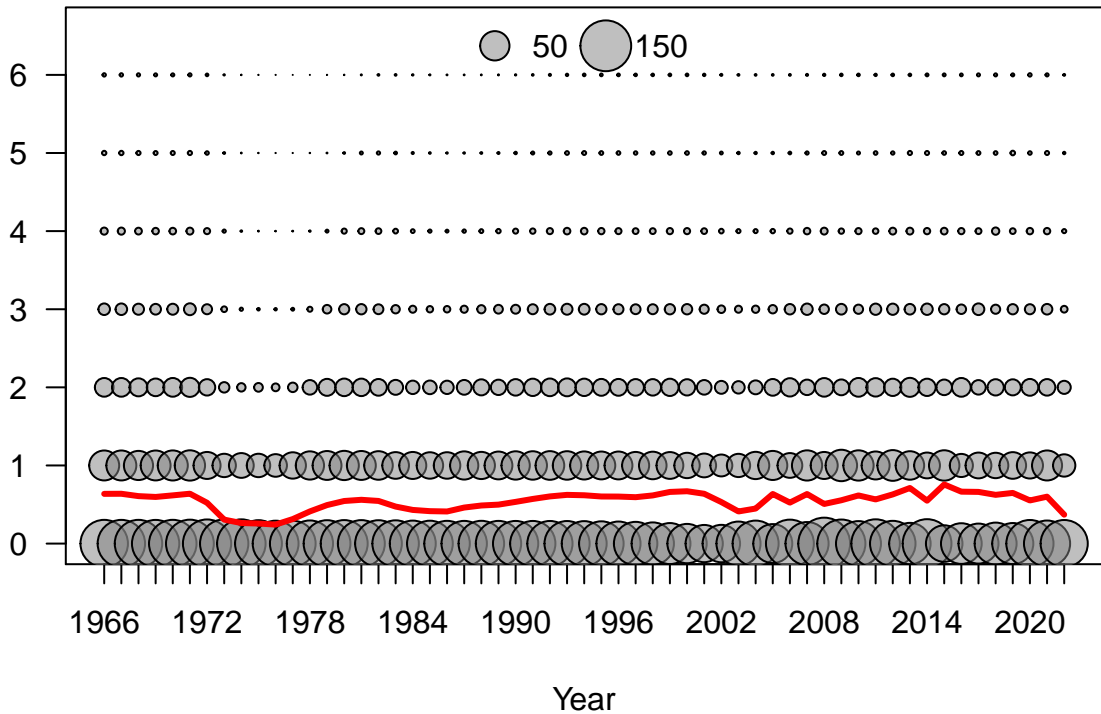


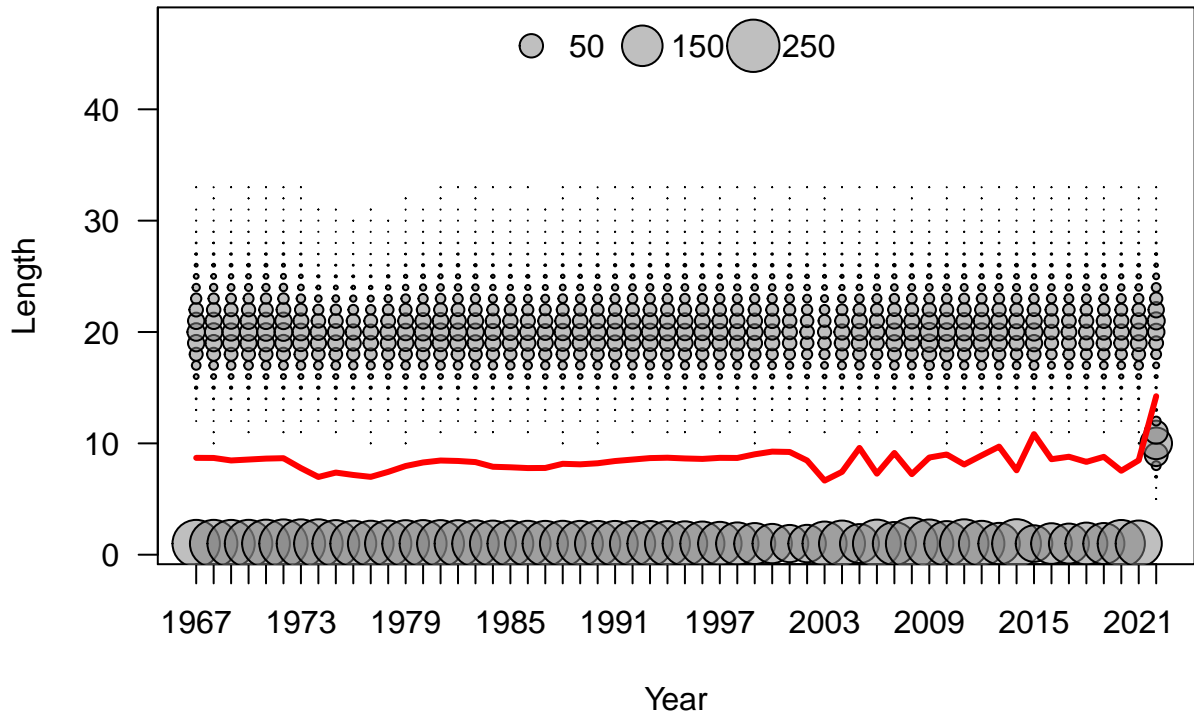


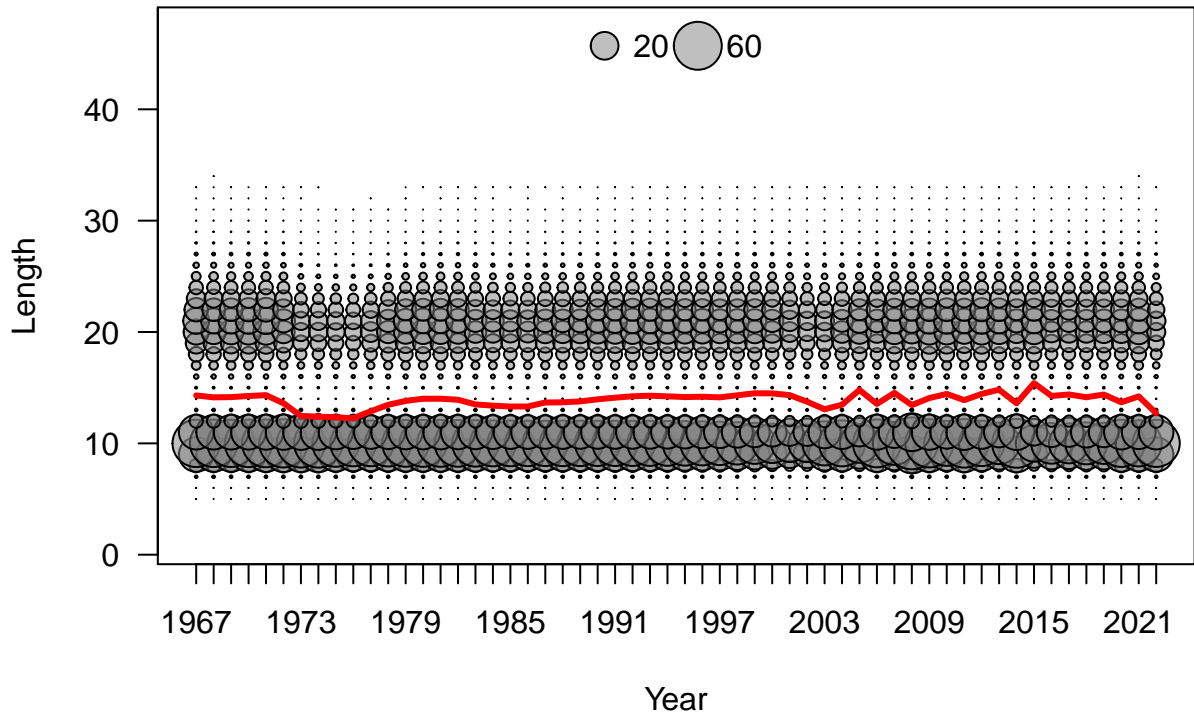
Age

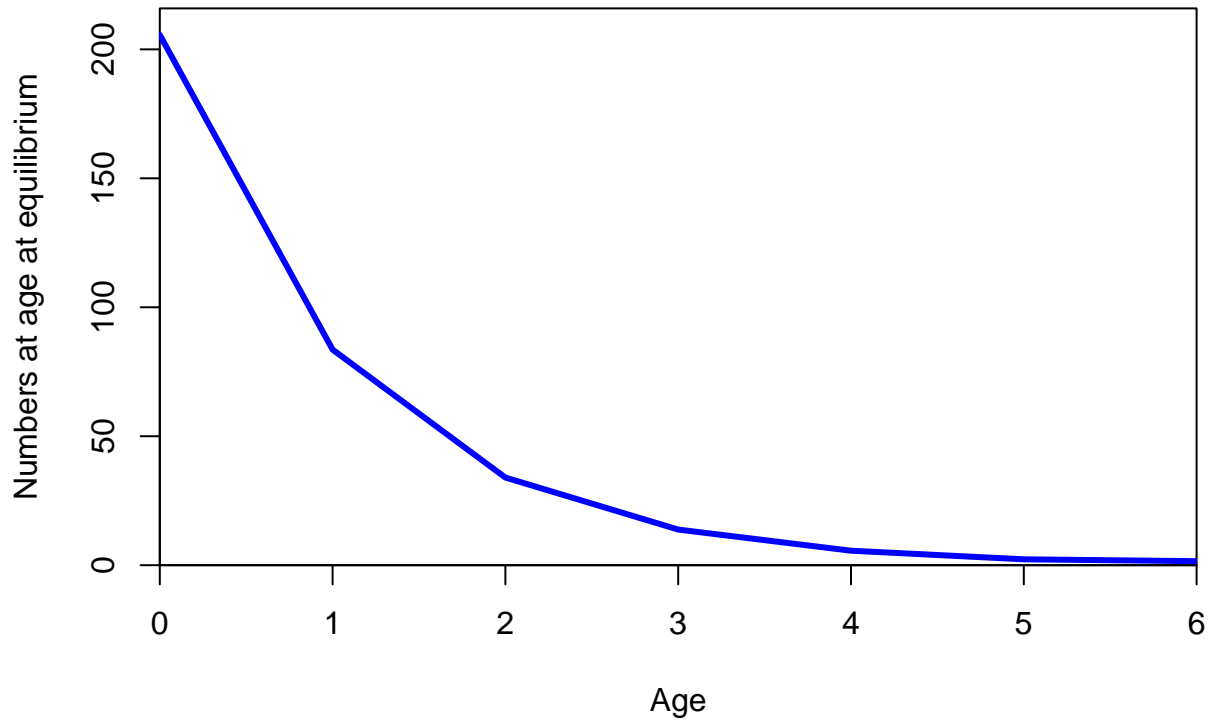


Age



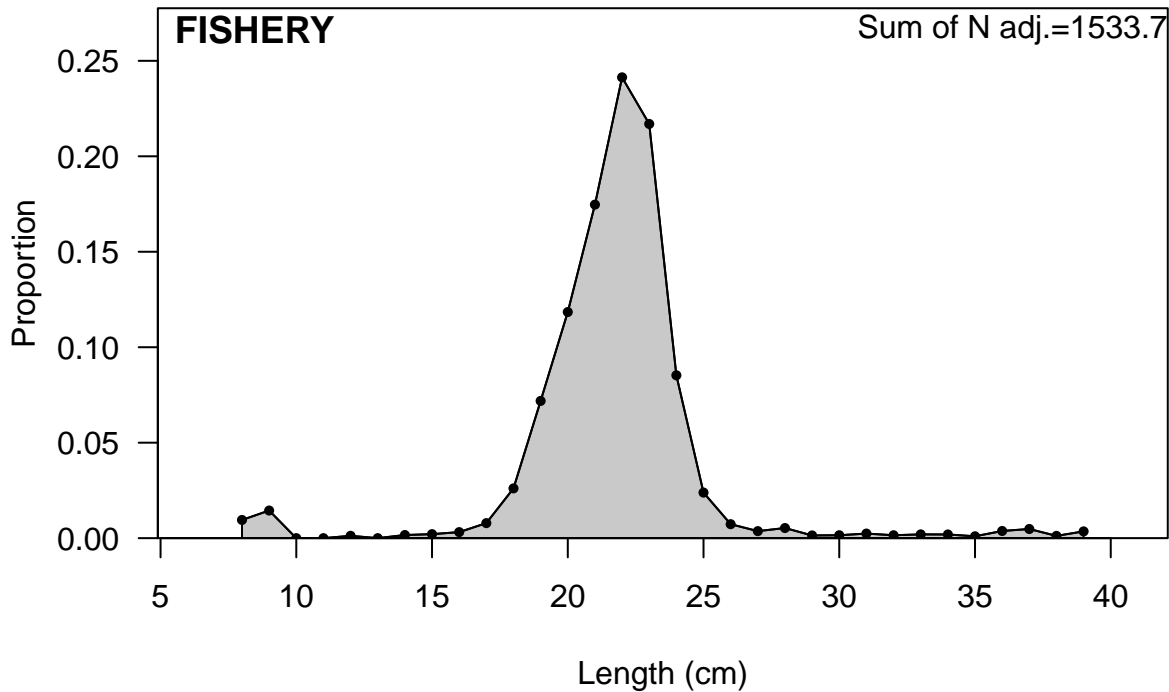


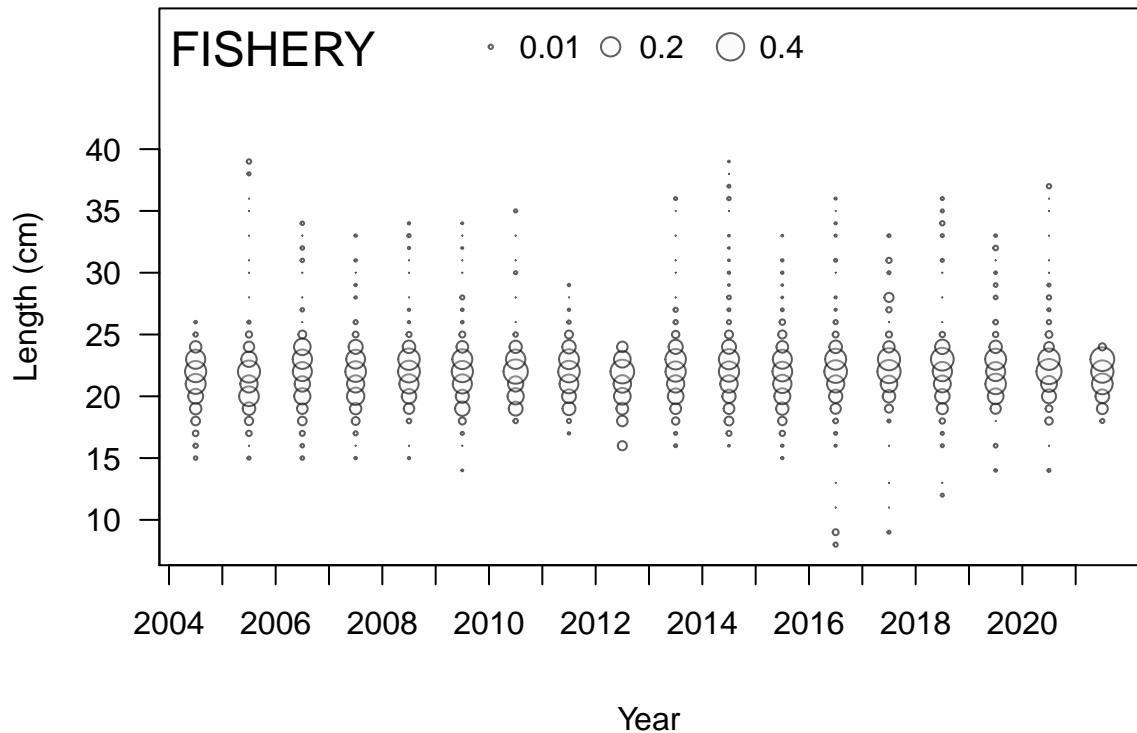


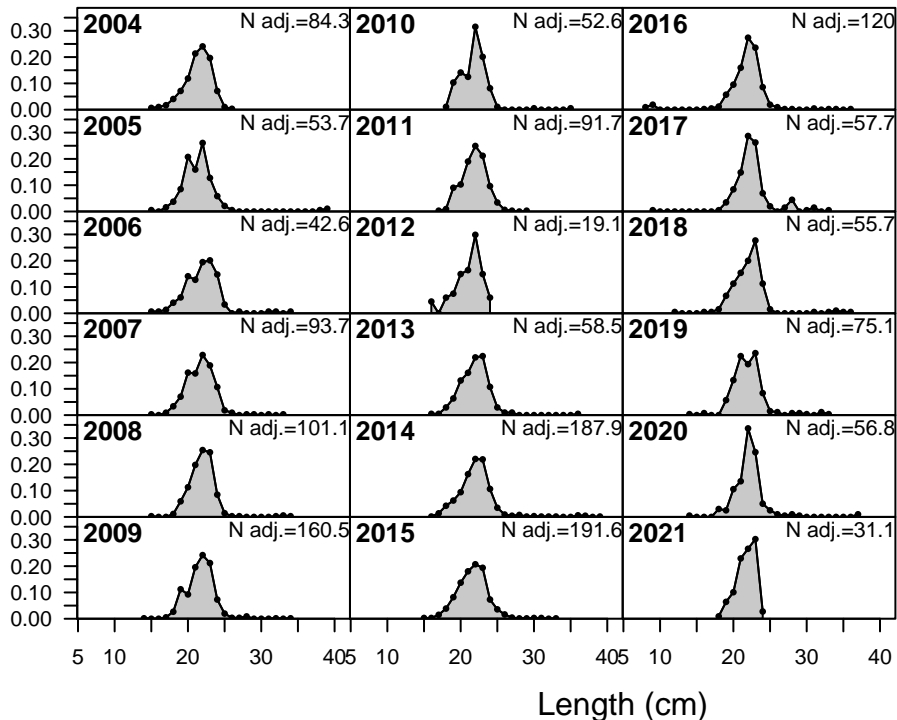


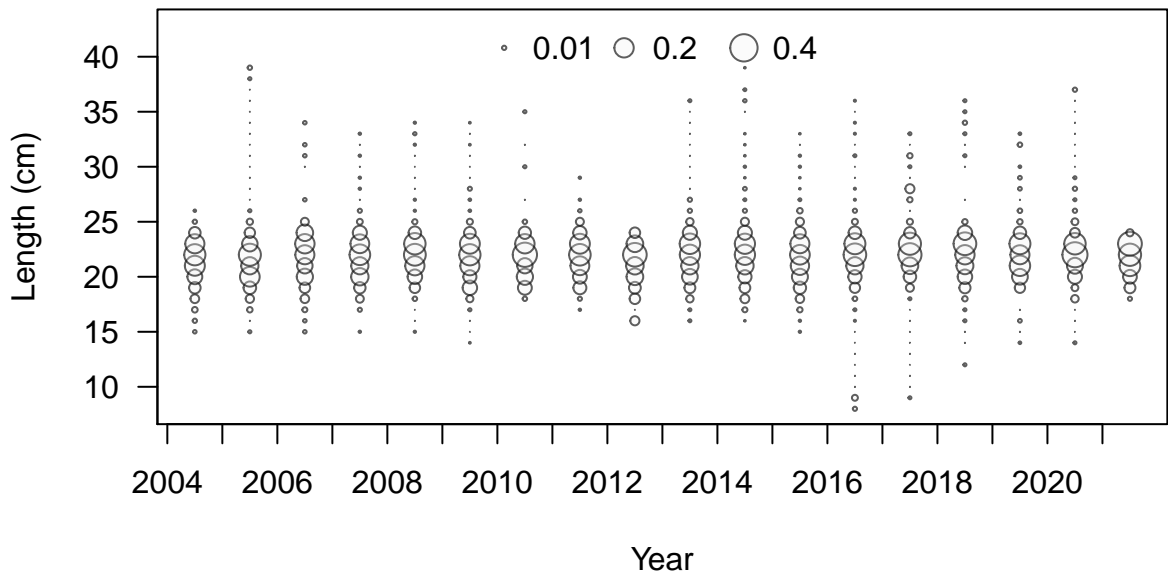
FISHERY

Sum of N adj.=1533.7

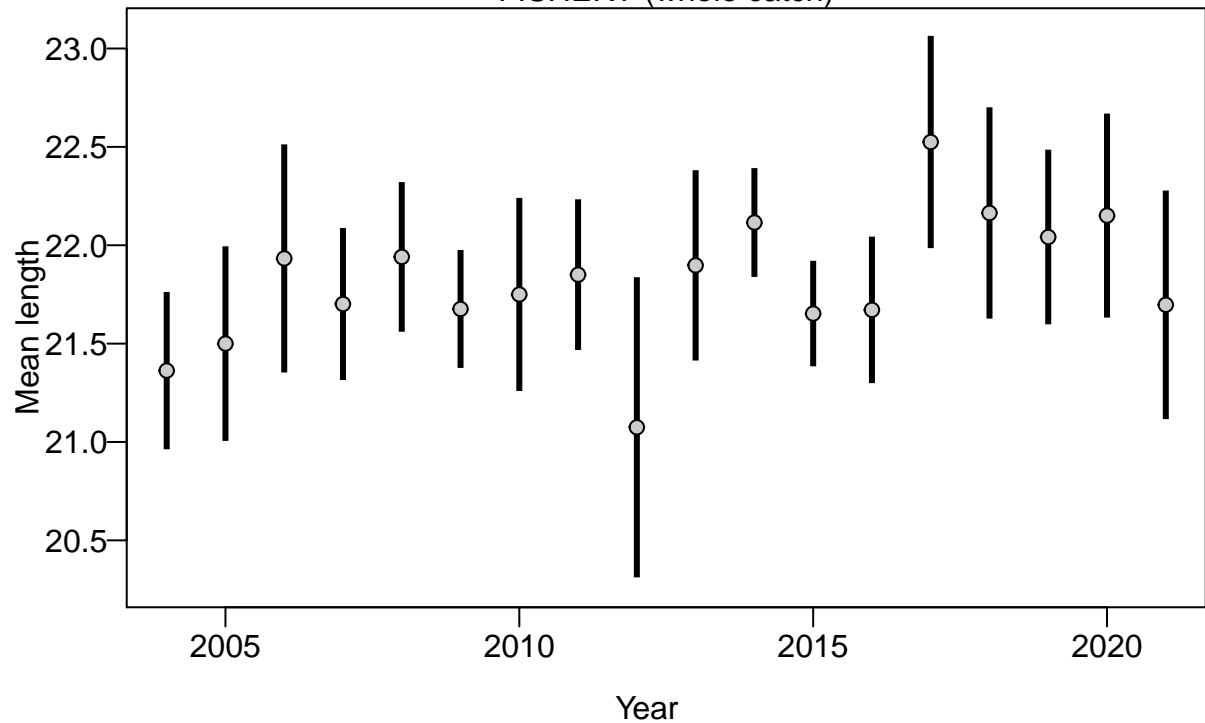






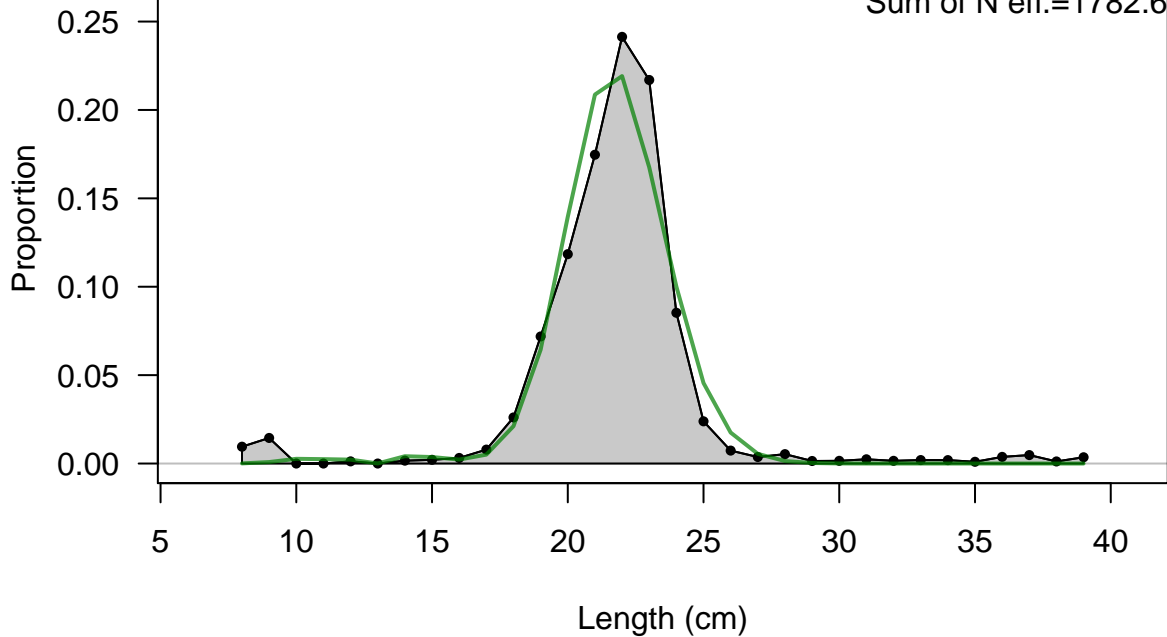


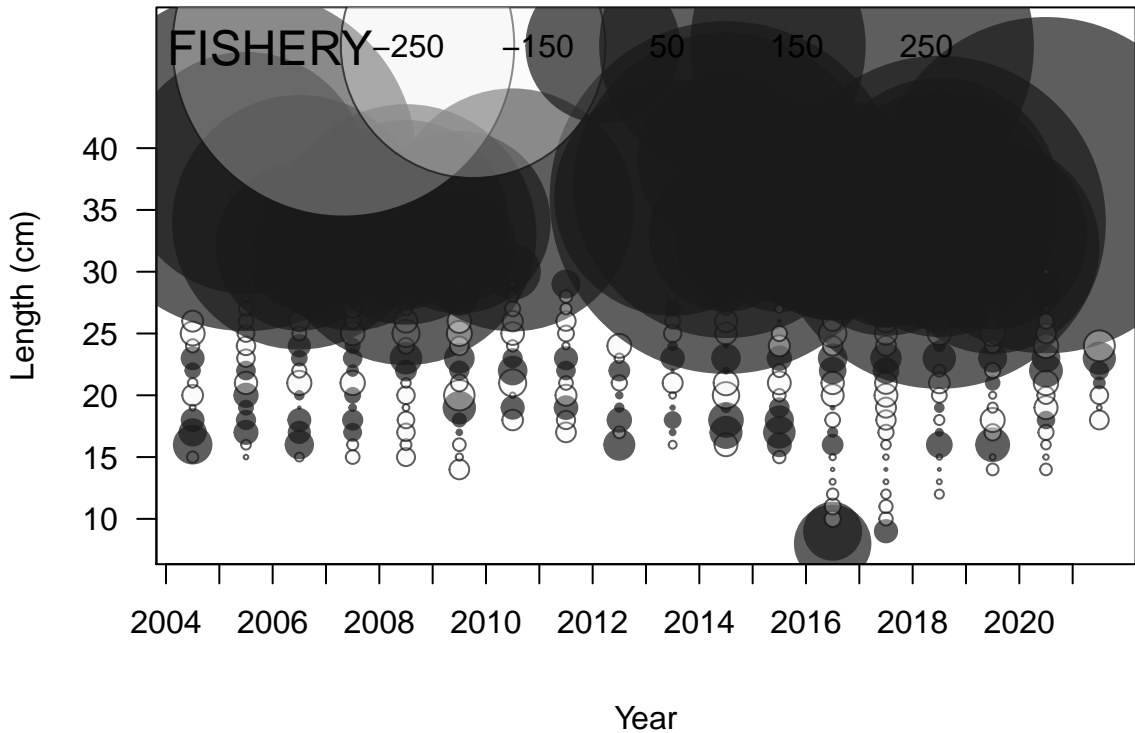
FISHERY (whole catch)

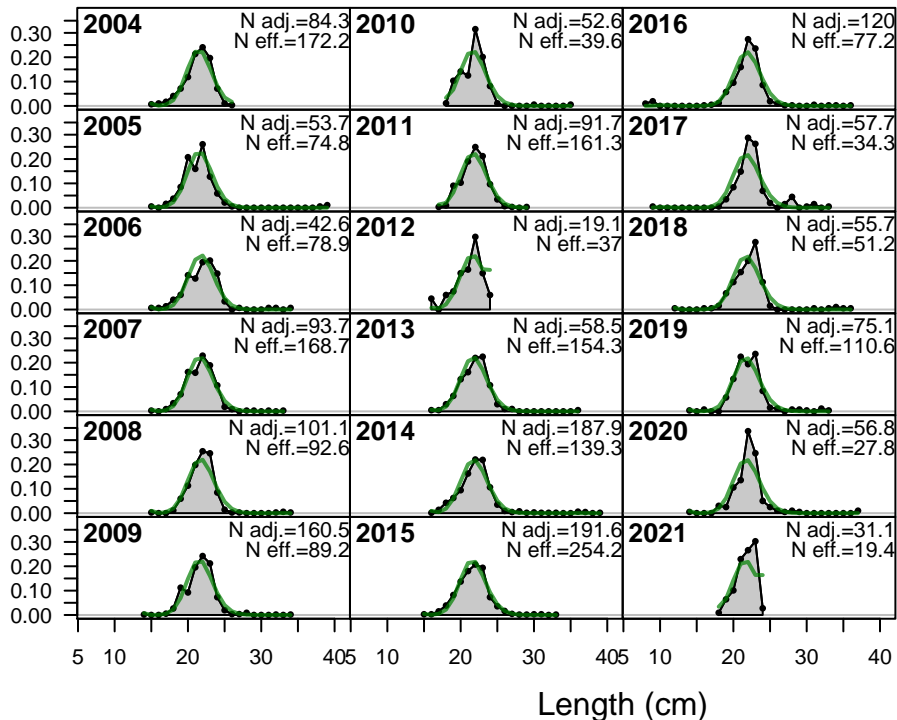


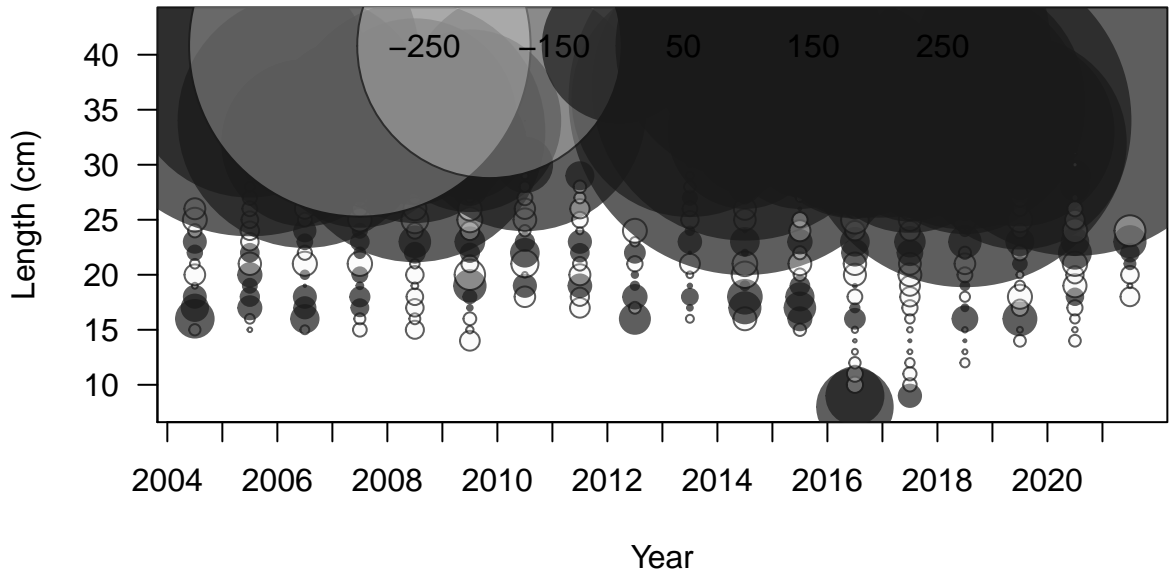
FISHERY

Sum of N adj.=1533.7
Sum of N eff.=1782.6

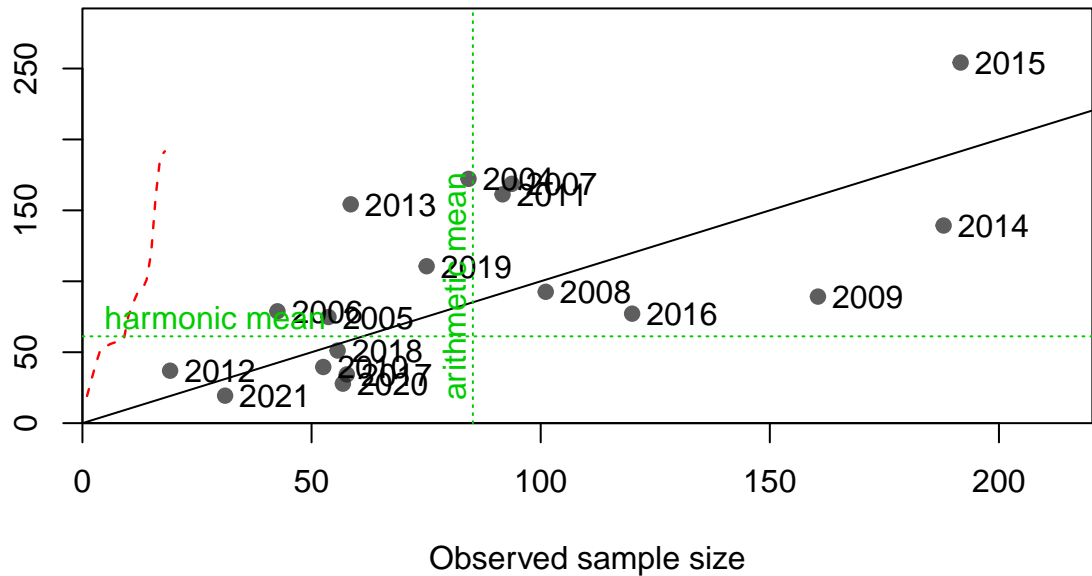




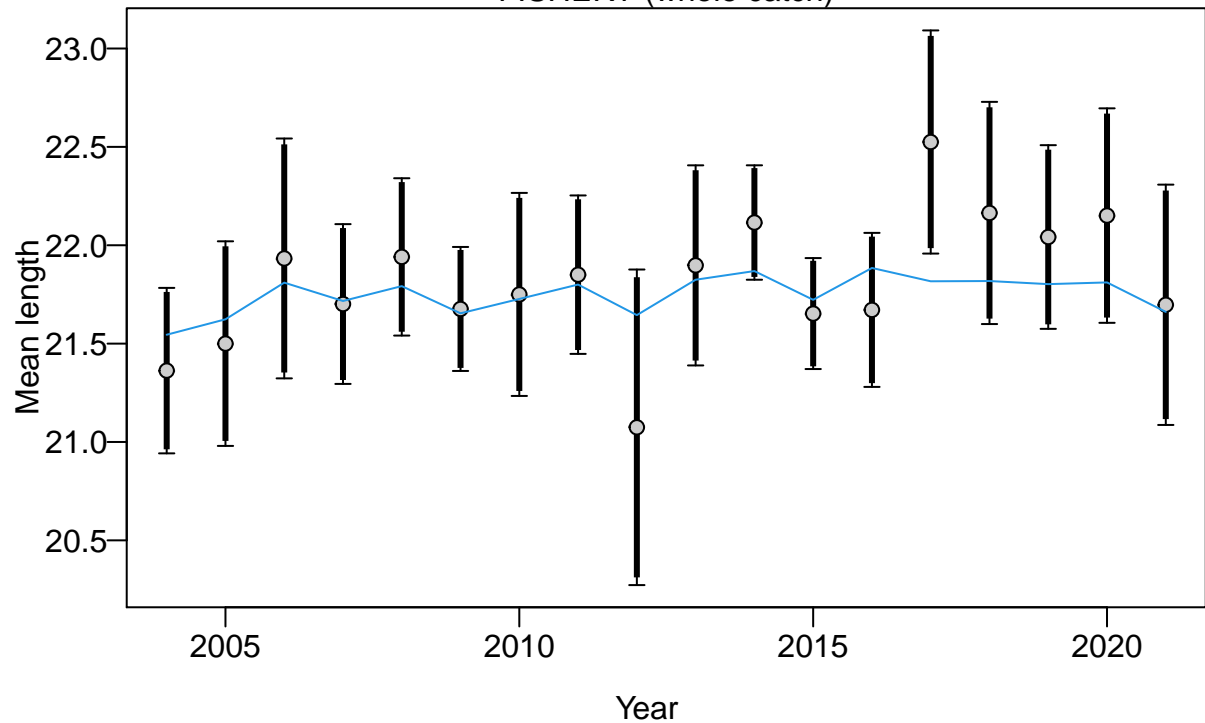


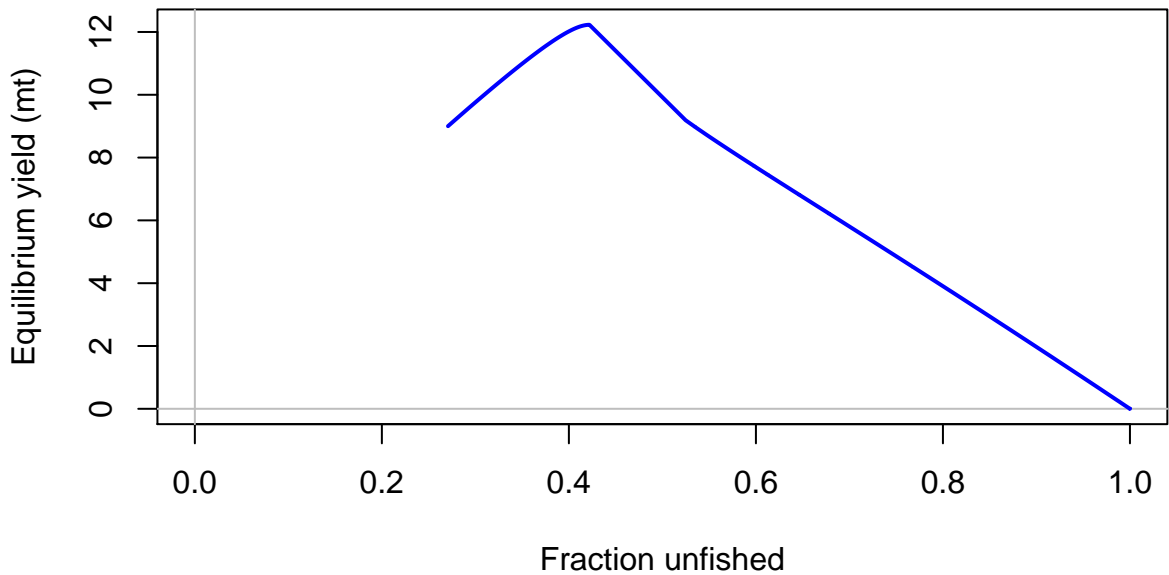


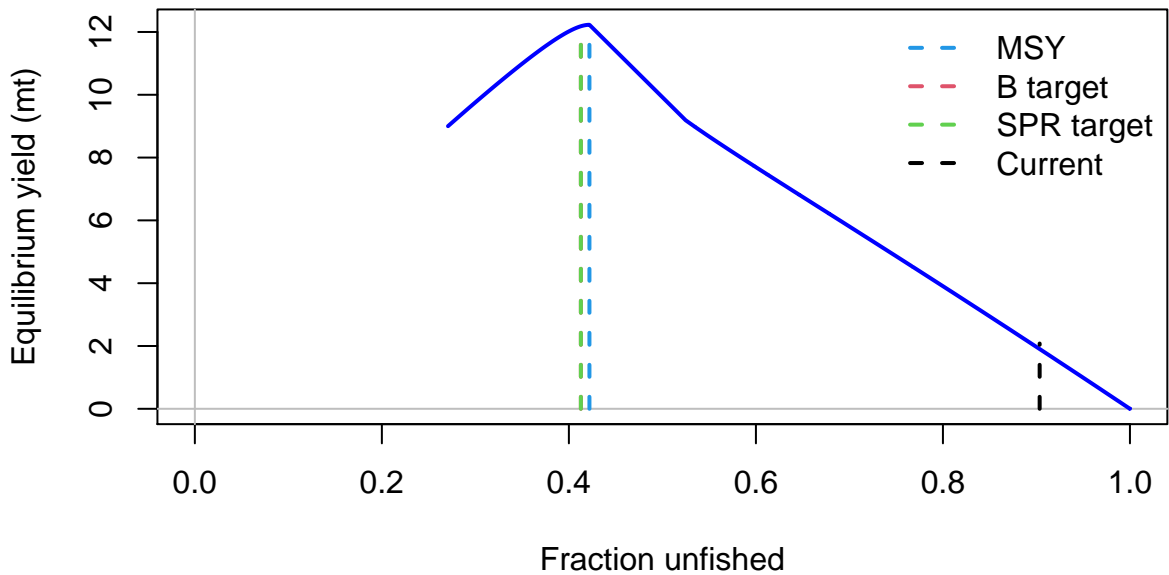
Effective sample size

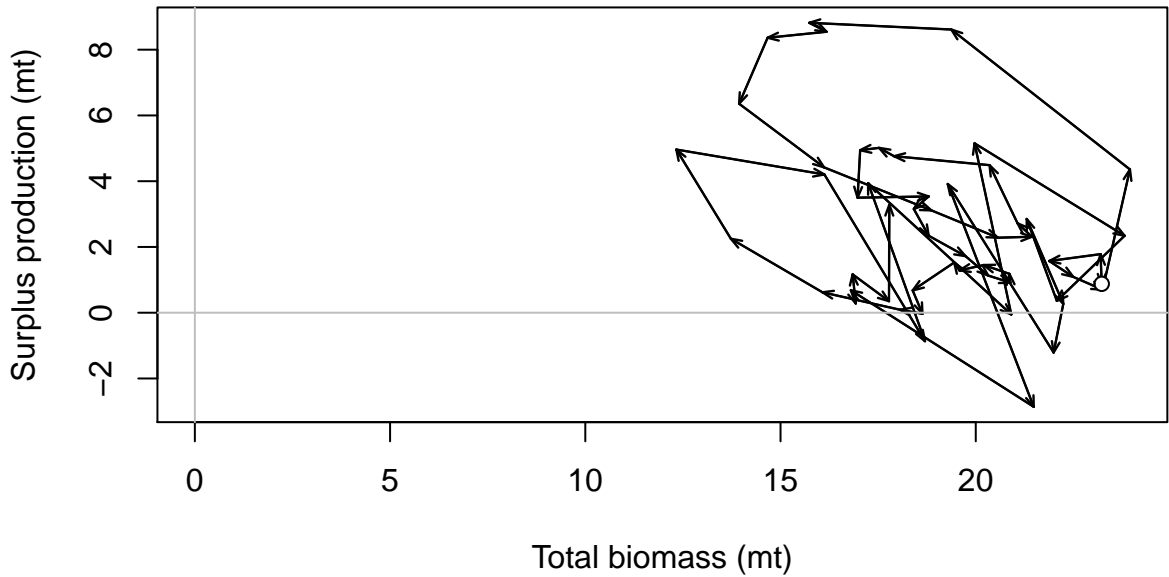


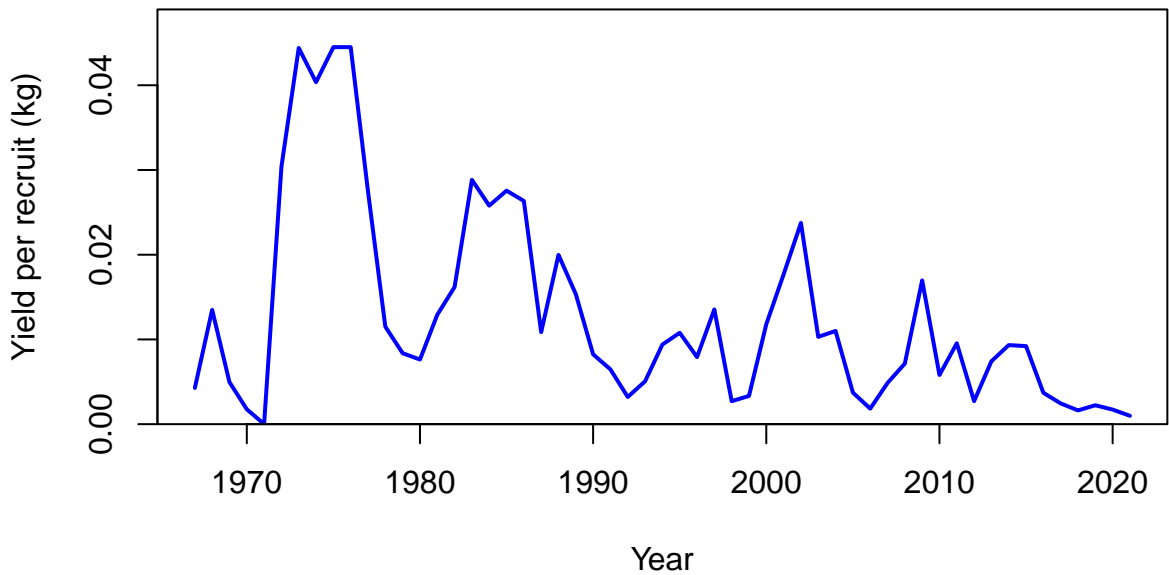
FISHERY (whole catch)

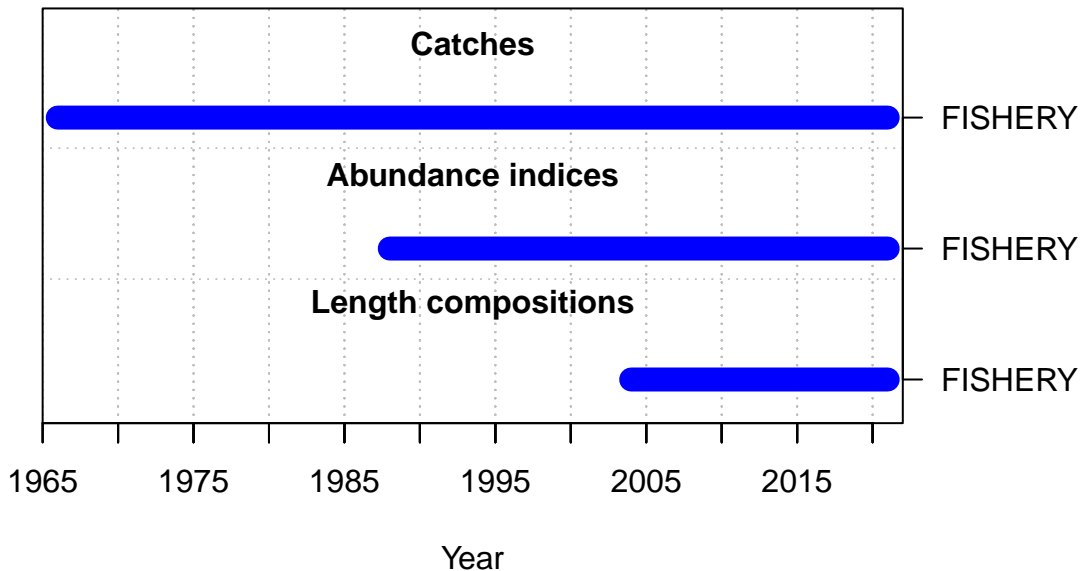


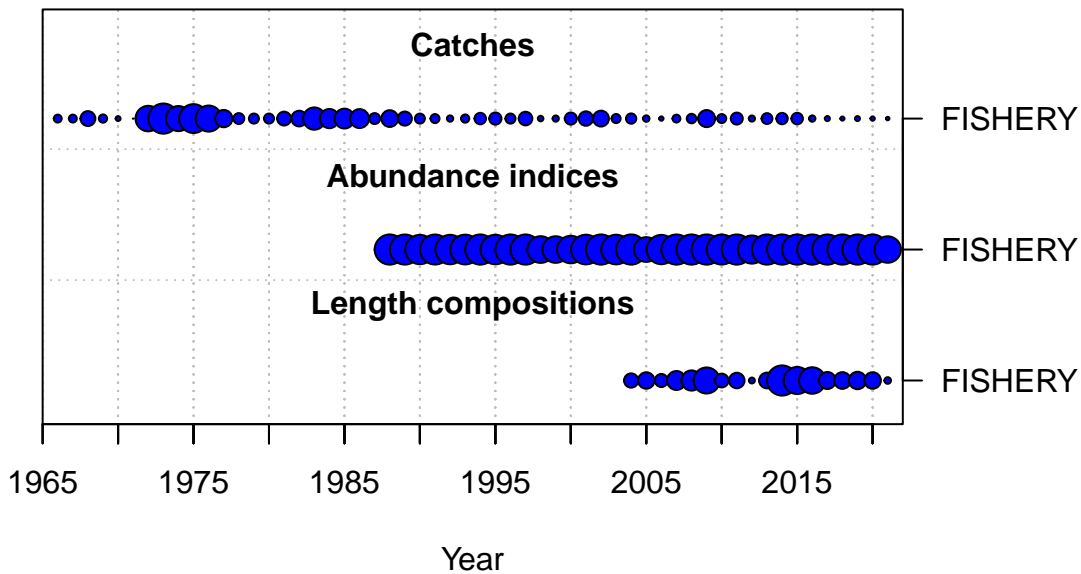




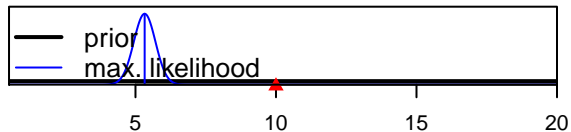




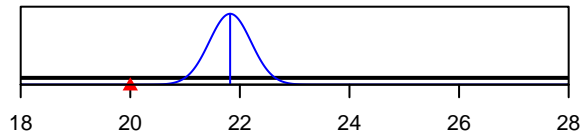




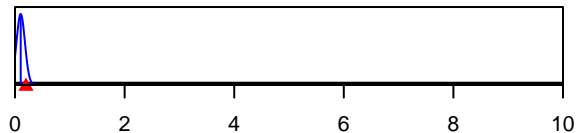
SR_LN(R0)



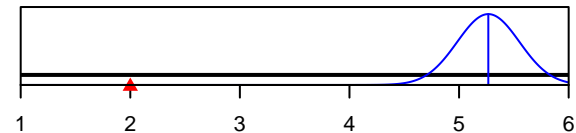
Size_inflection_FISHERY(1)



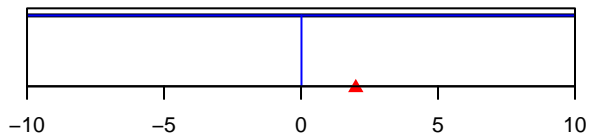
InitF_seas_1_flt_1FISHERY



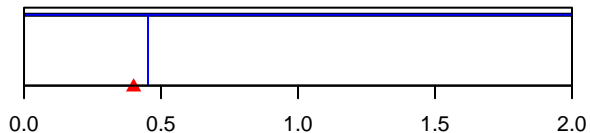
Size_95%width_FISHERY(1)



LnQ_base_FISHERY(1)



Q_extraSD_FISHERY(1)



Parameter value