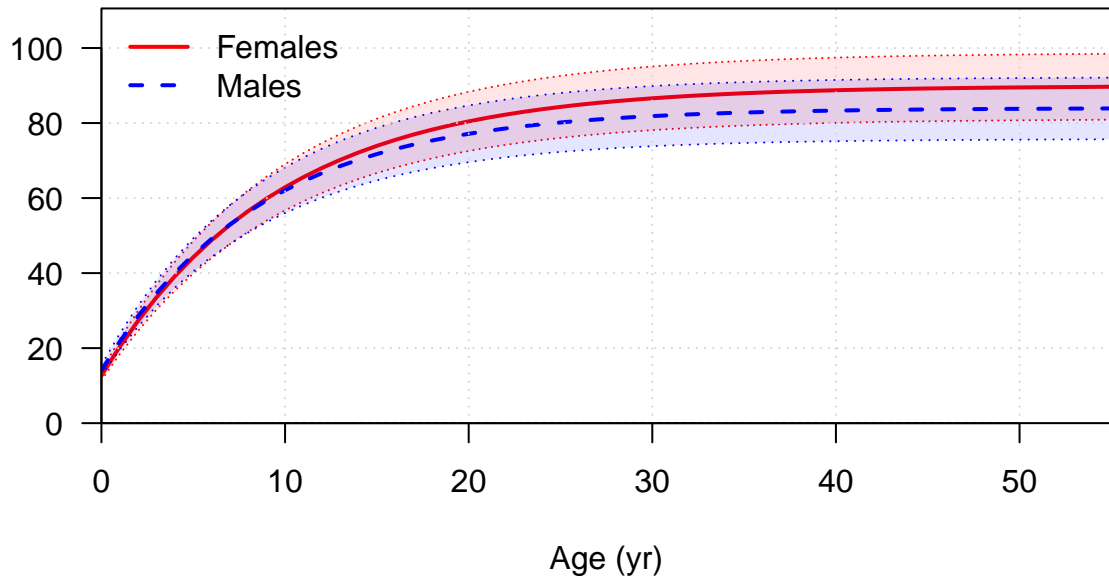
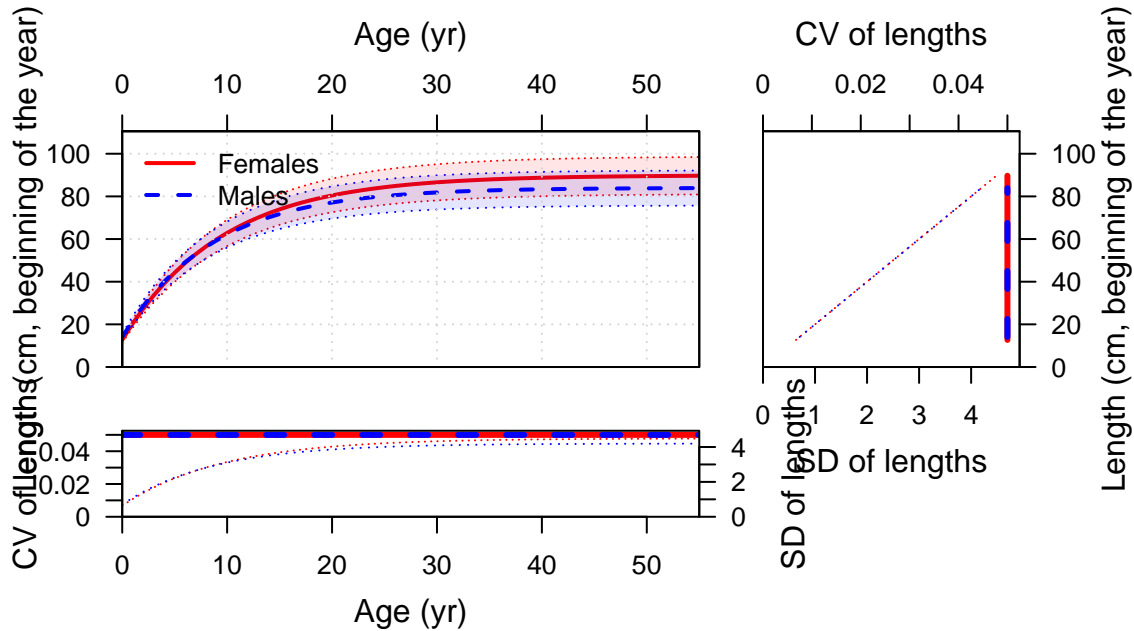
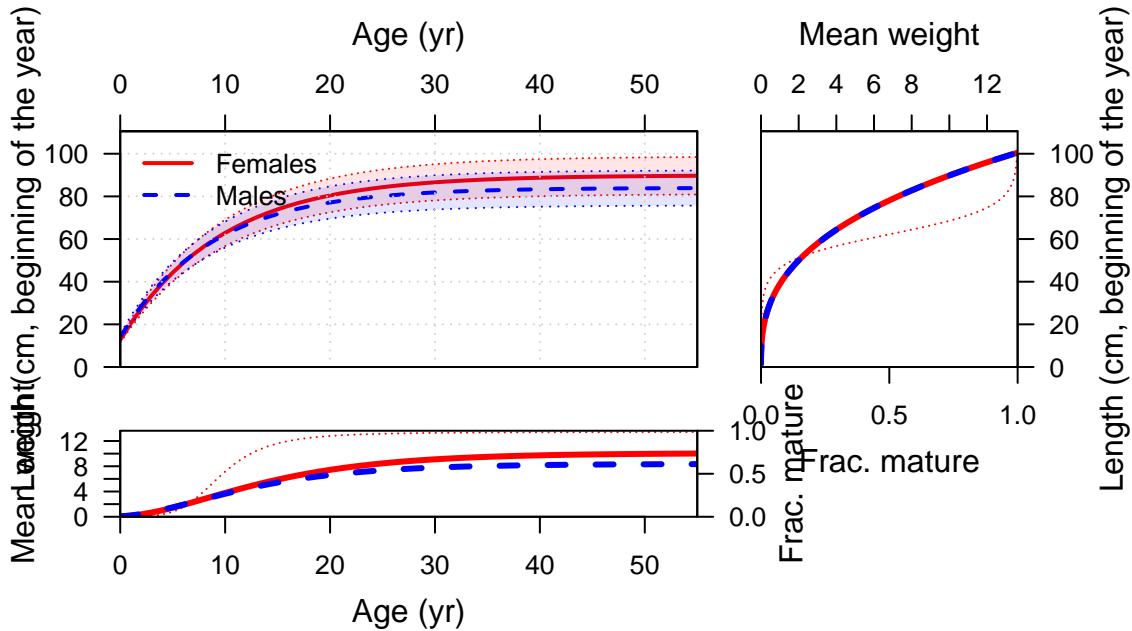


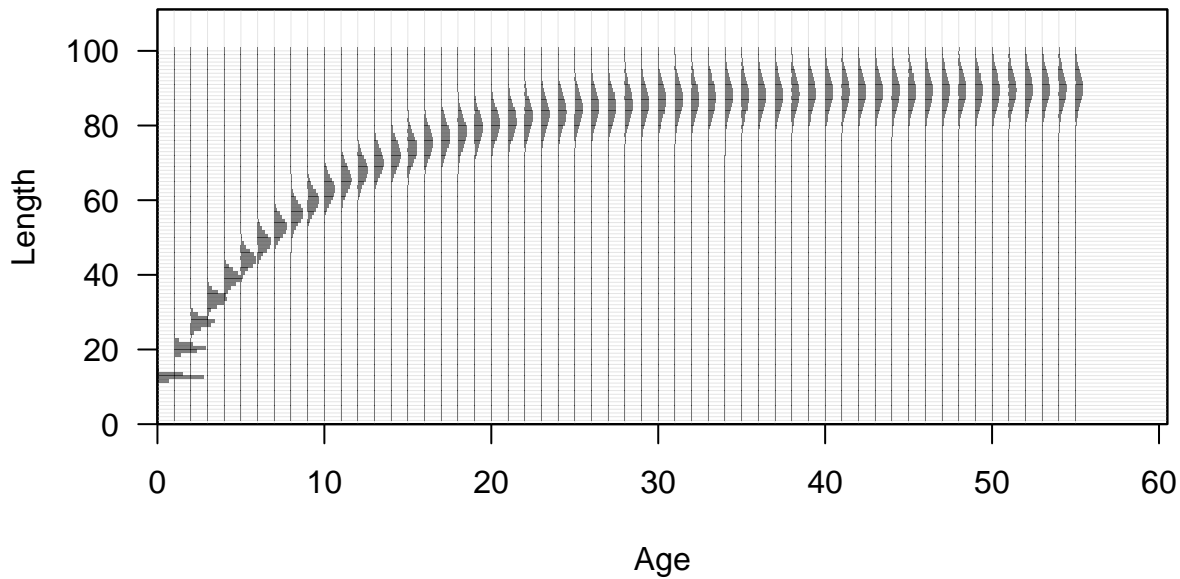
Plots created using the 'r4ss' package in R
Stock Synthesis version: 3.30.19.0
StartTime: Mon Aug 08 09:51:35 2022
Data_File: data.ss
Control_File: control.ss

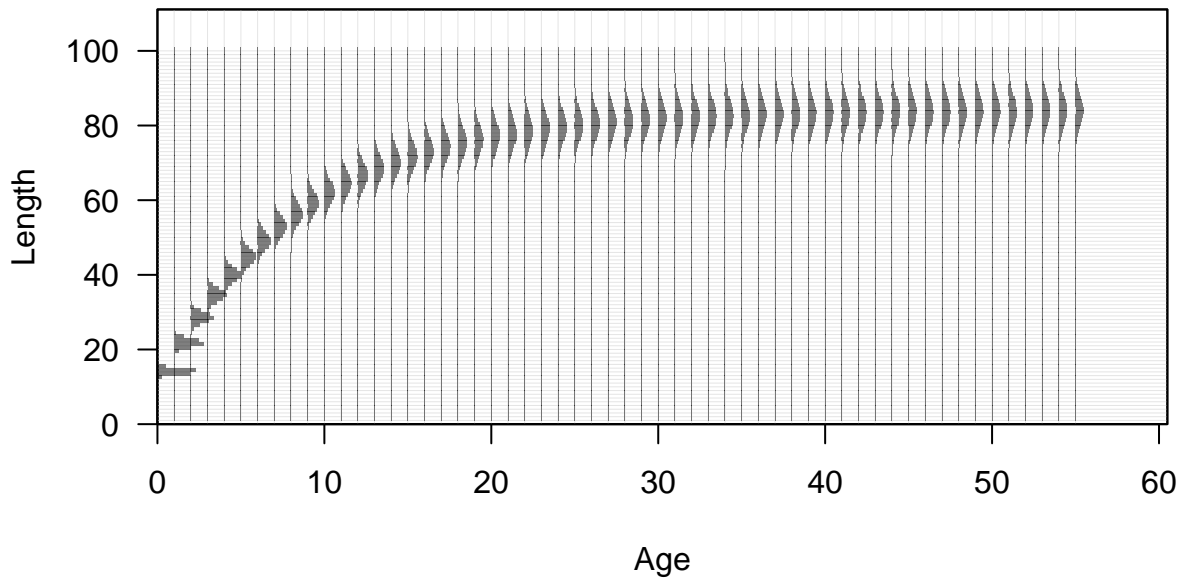
Length (cm, beginning of the year)

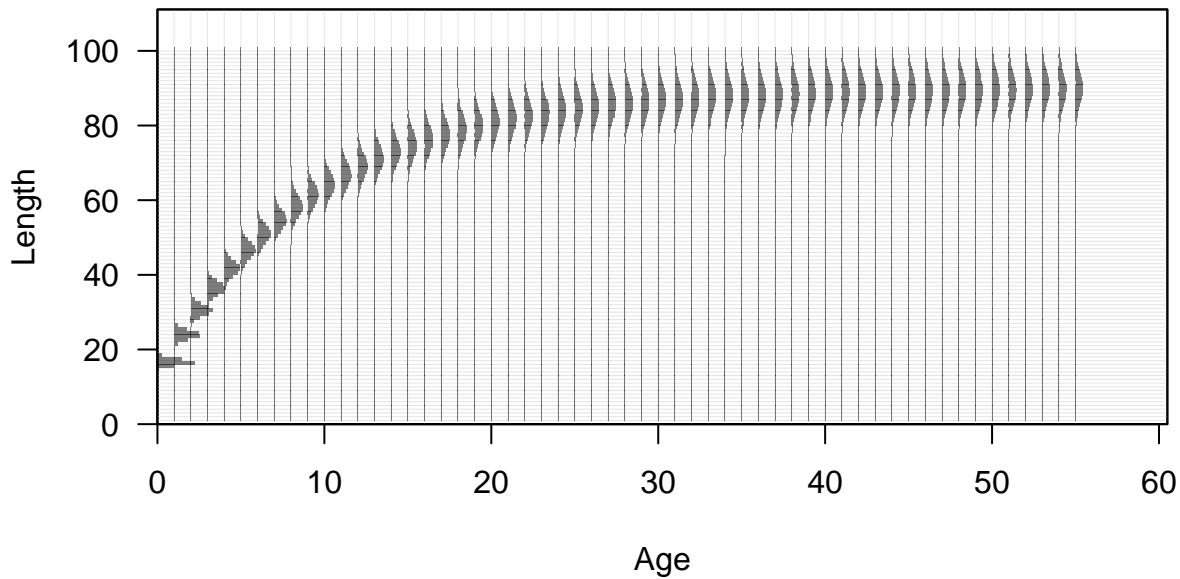


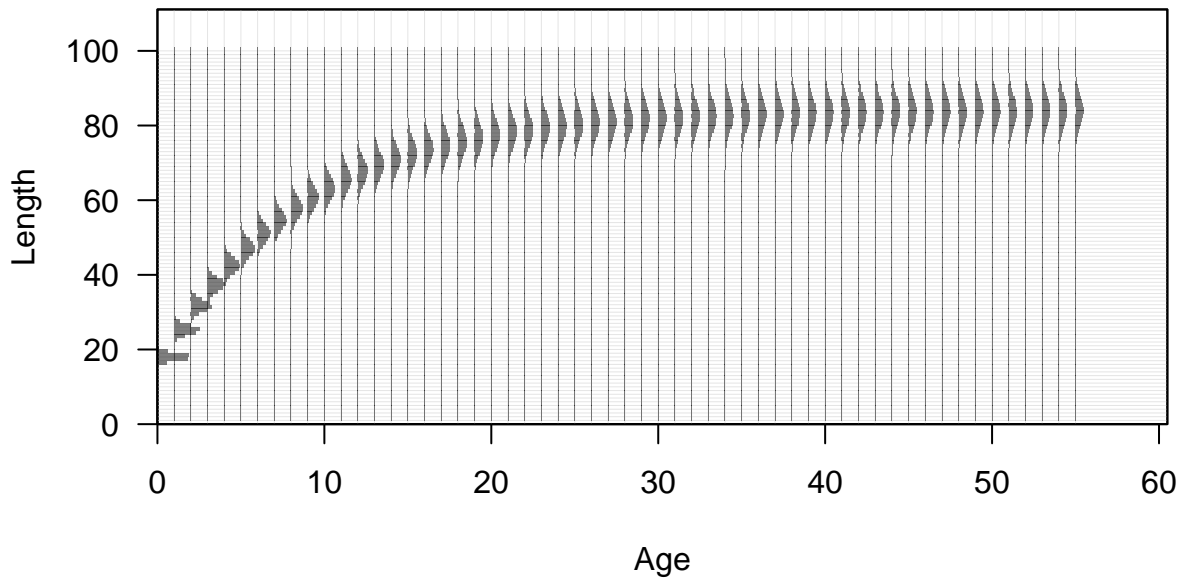




















Fecundity



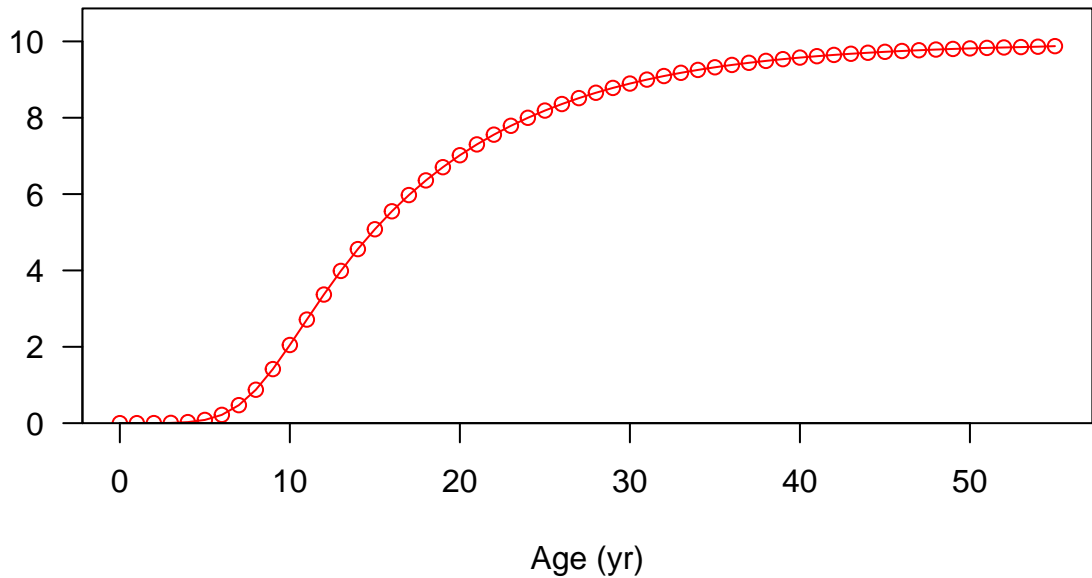
Fecundity



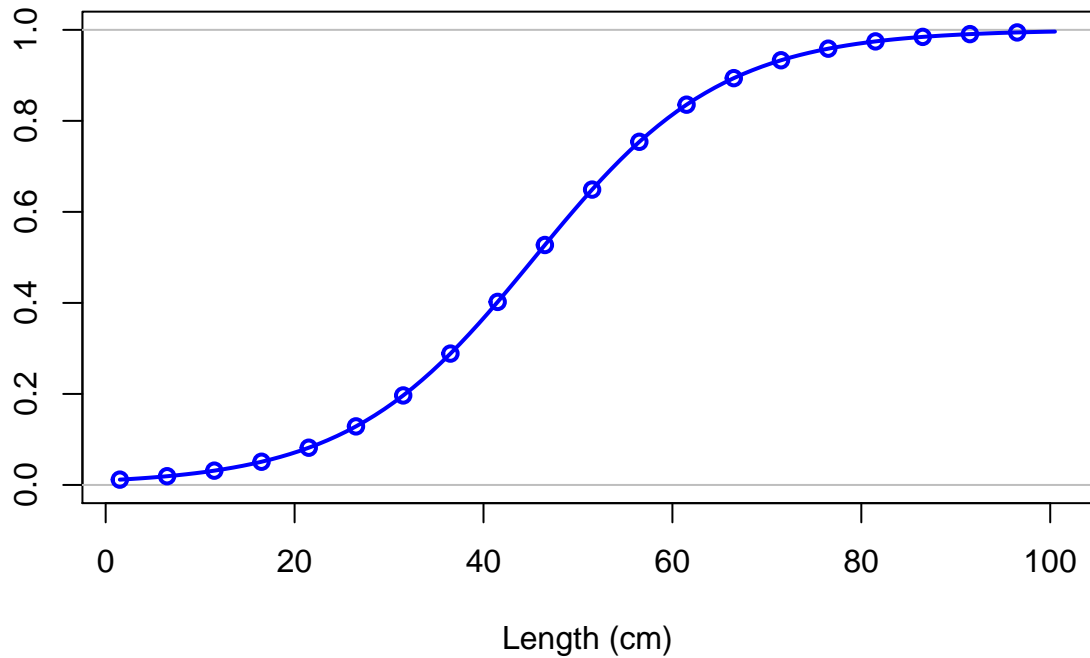
Spawning output



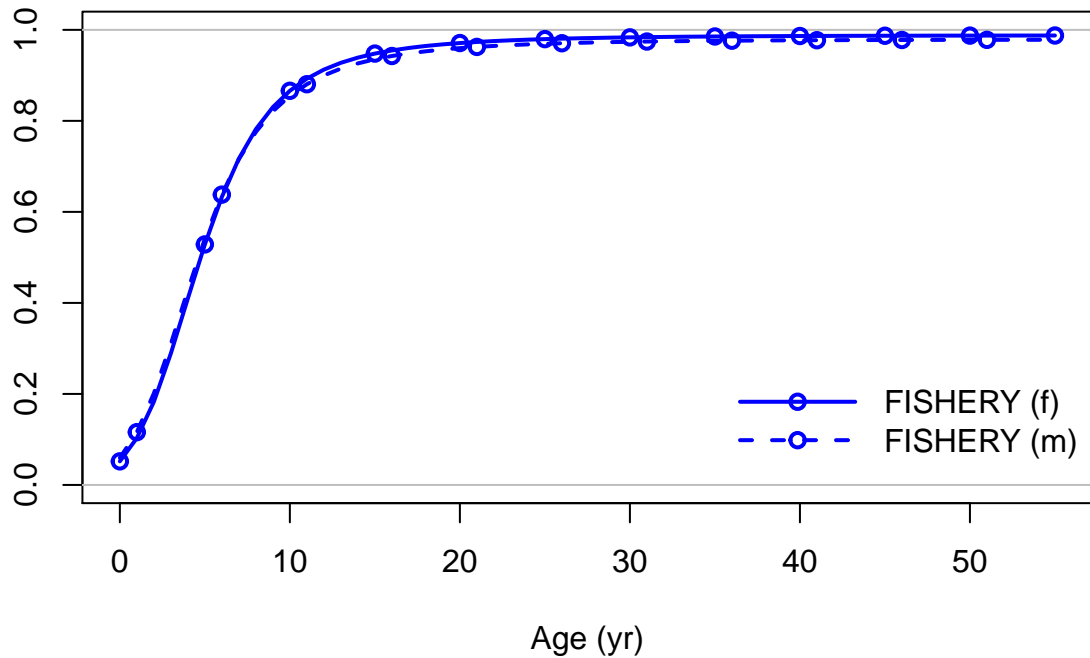
Spawning output



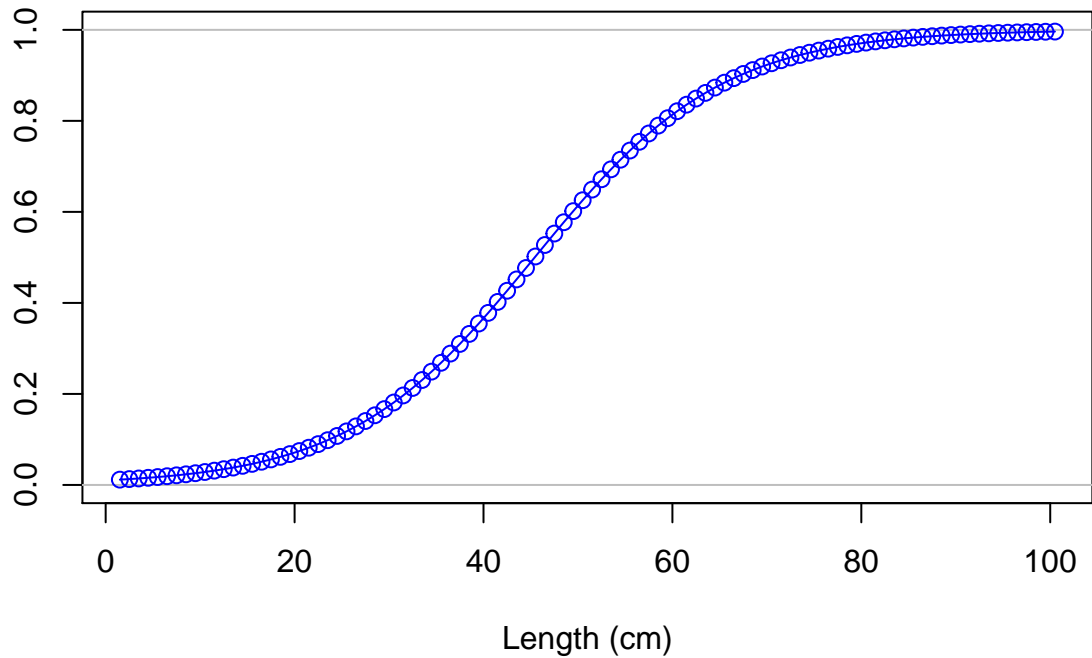
Selectivity



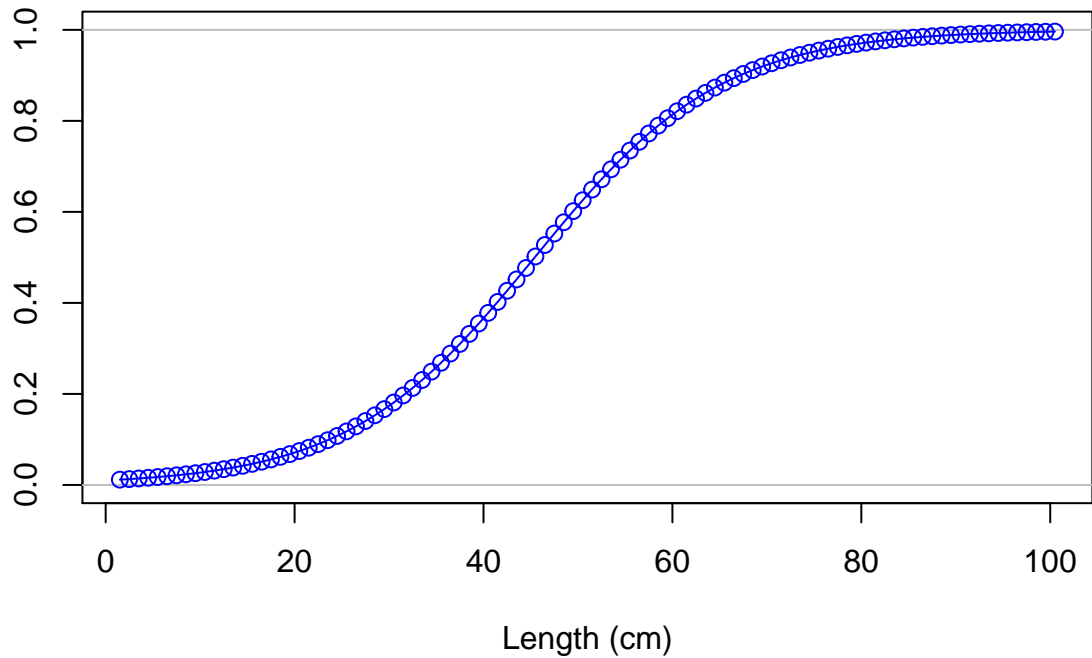
Selectivity

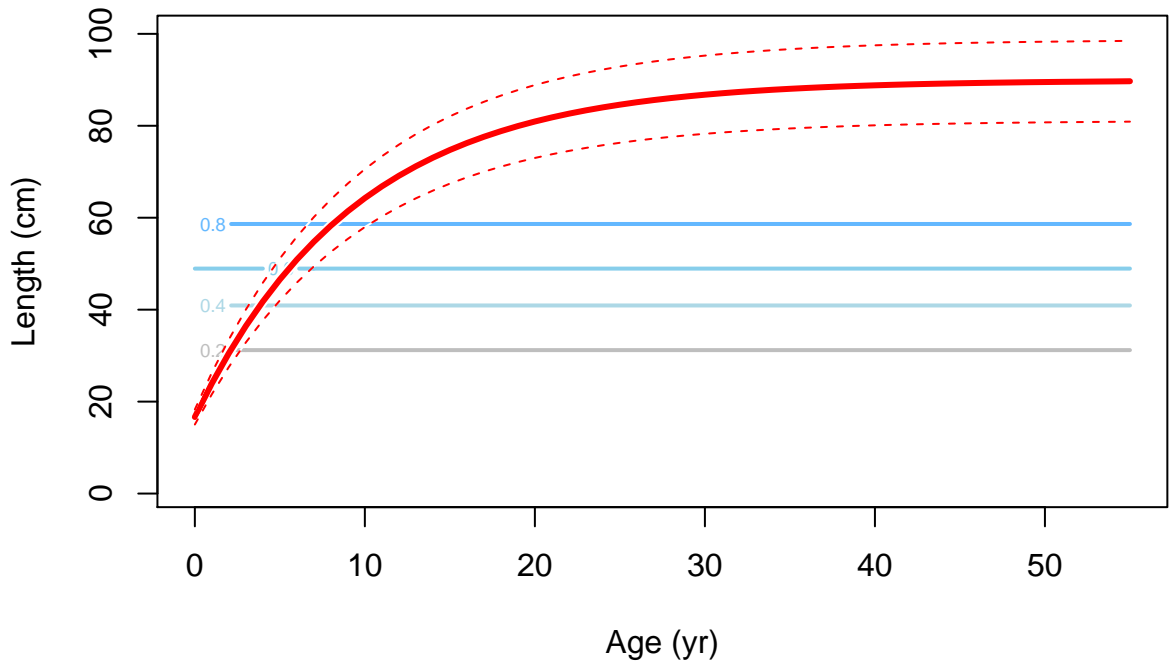


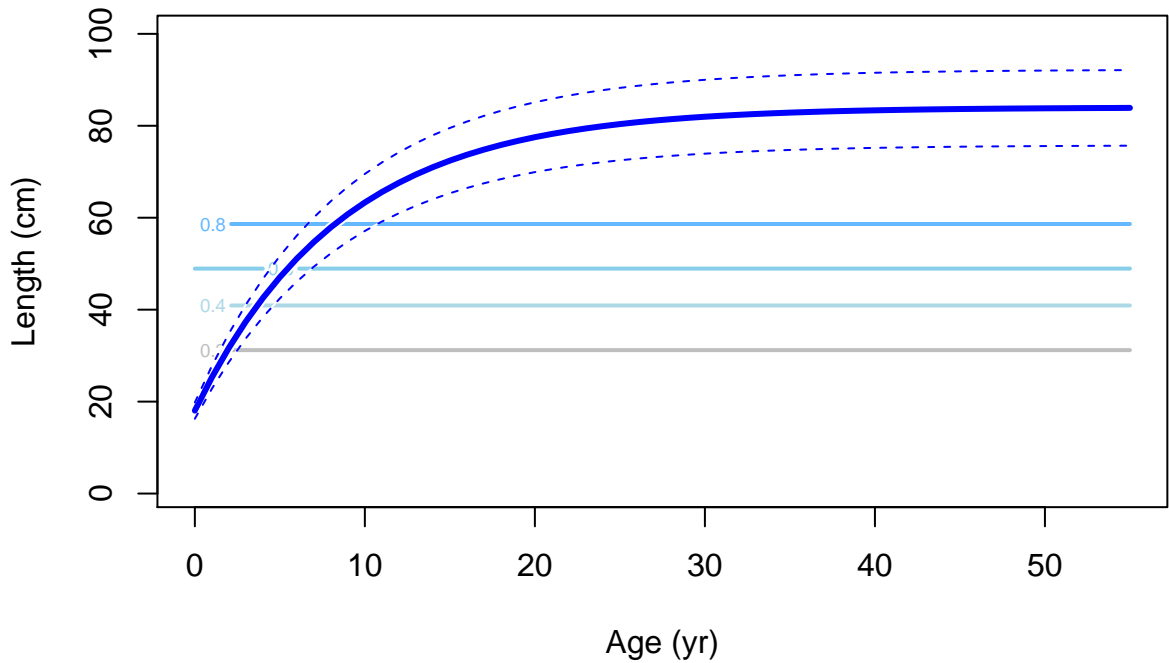
Selectivity

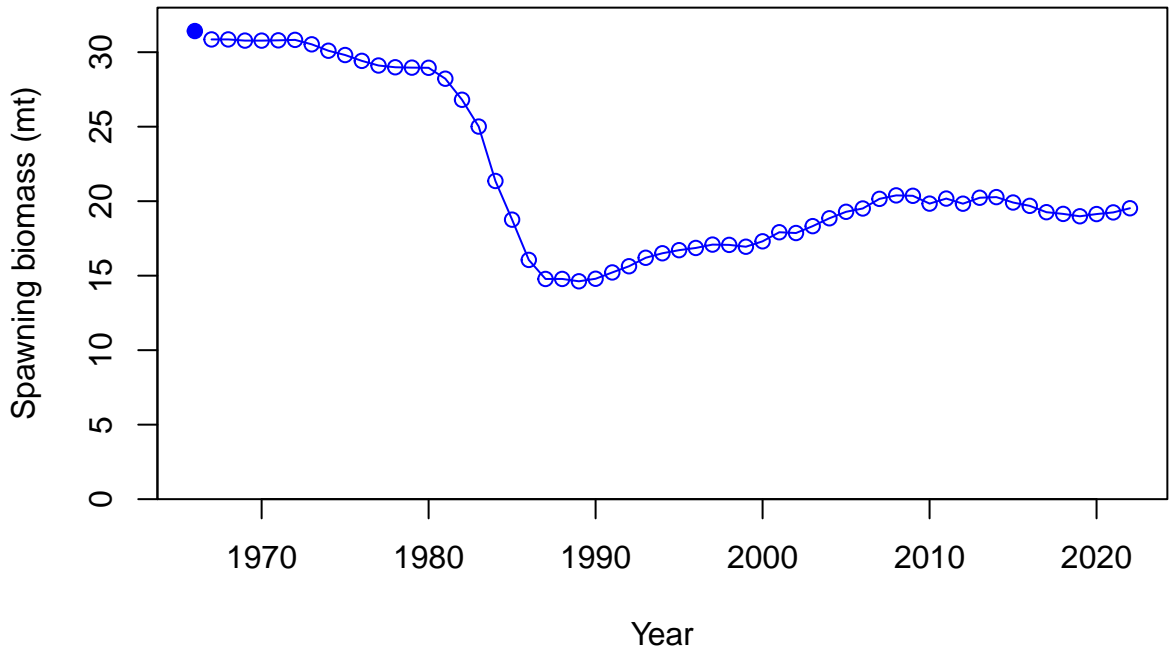


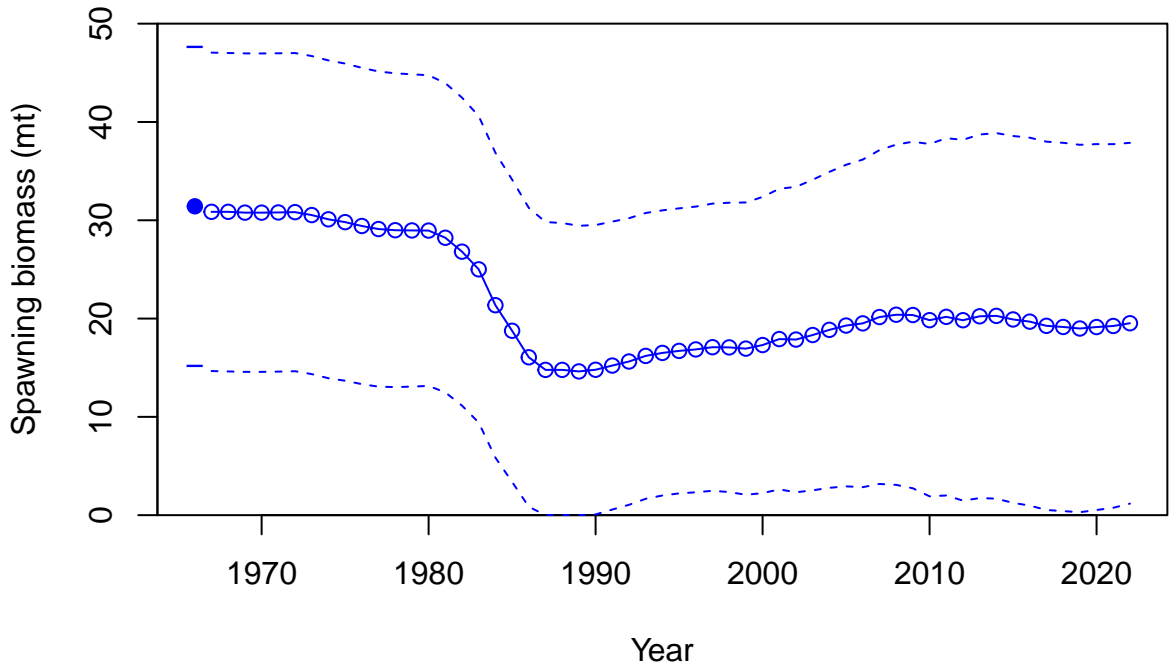
Selectivity



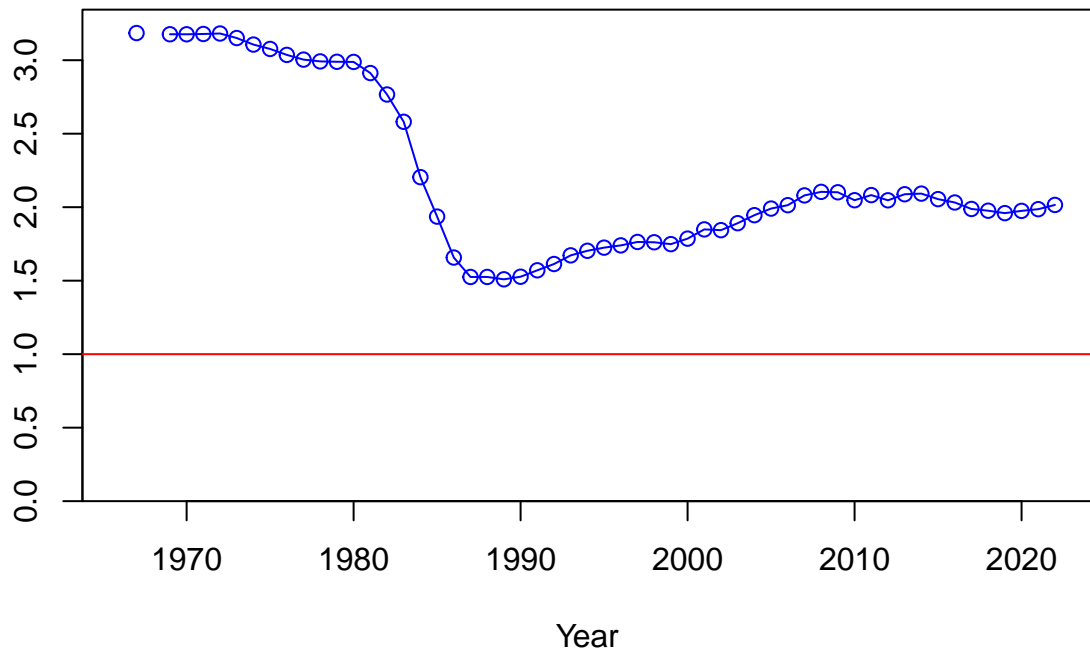




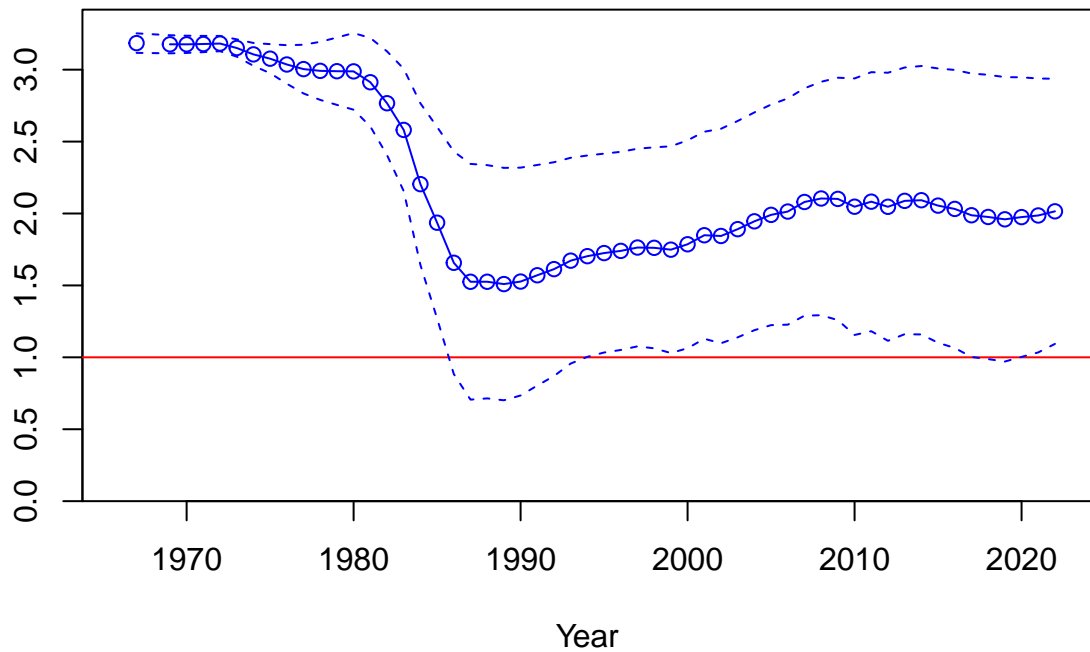


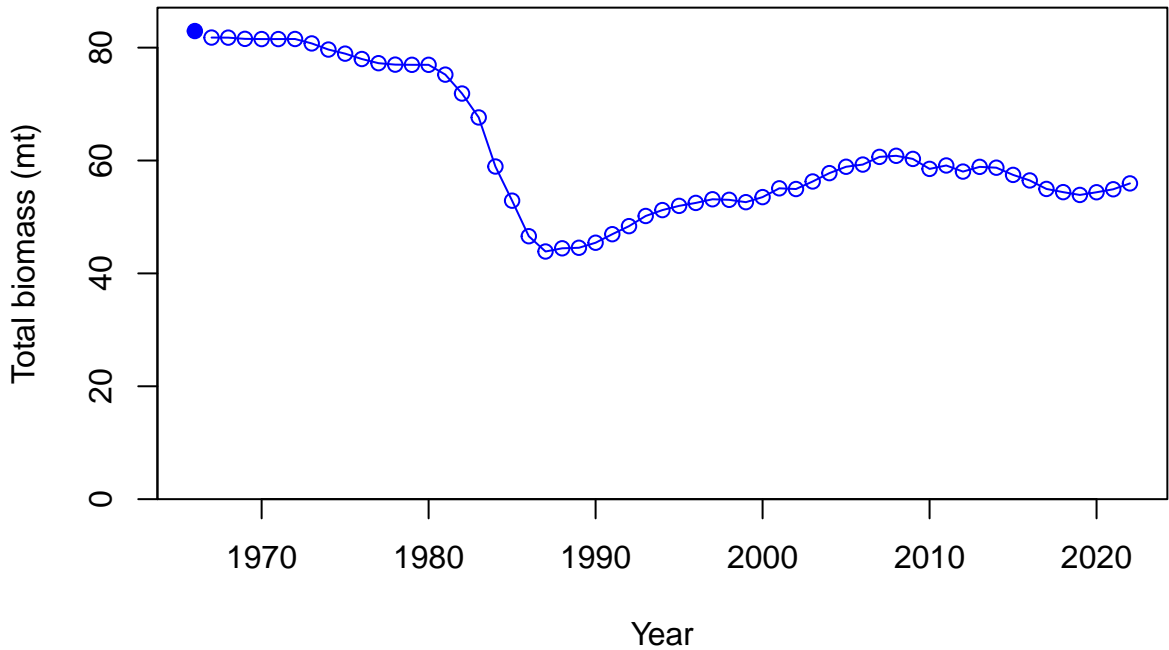


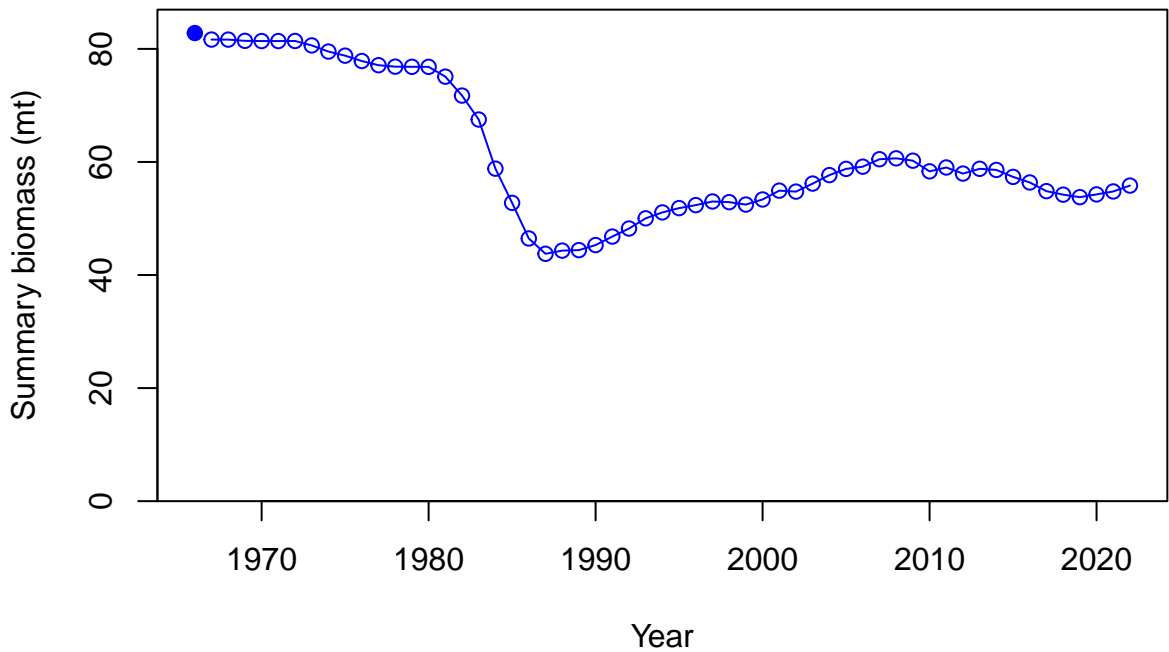
Relative spawning biomass: B/B_{MSY}



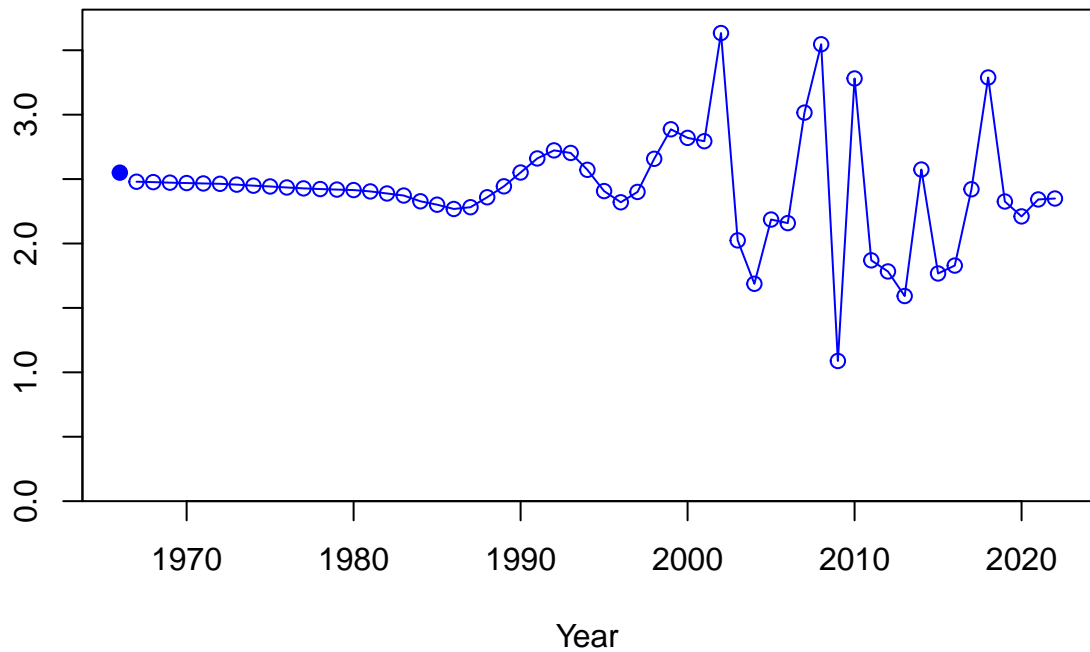
Relative spawning biomass: B/B_{MSY}



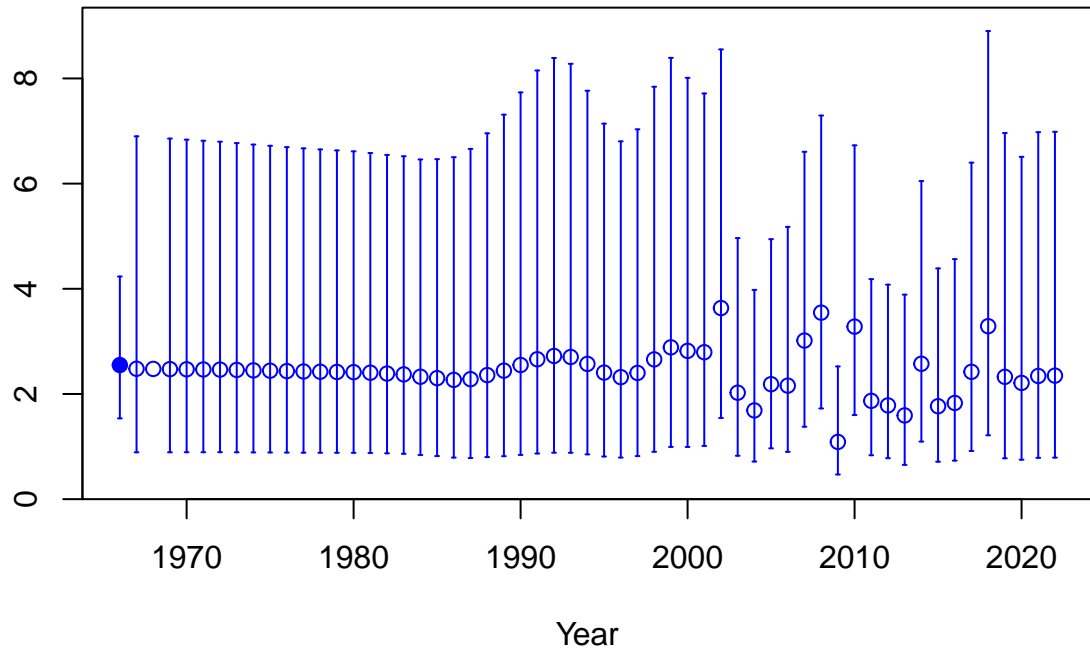




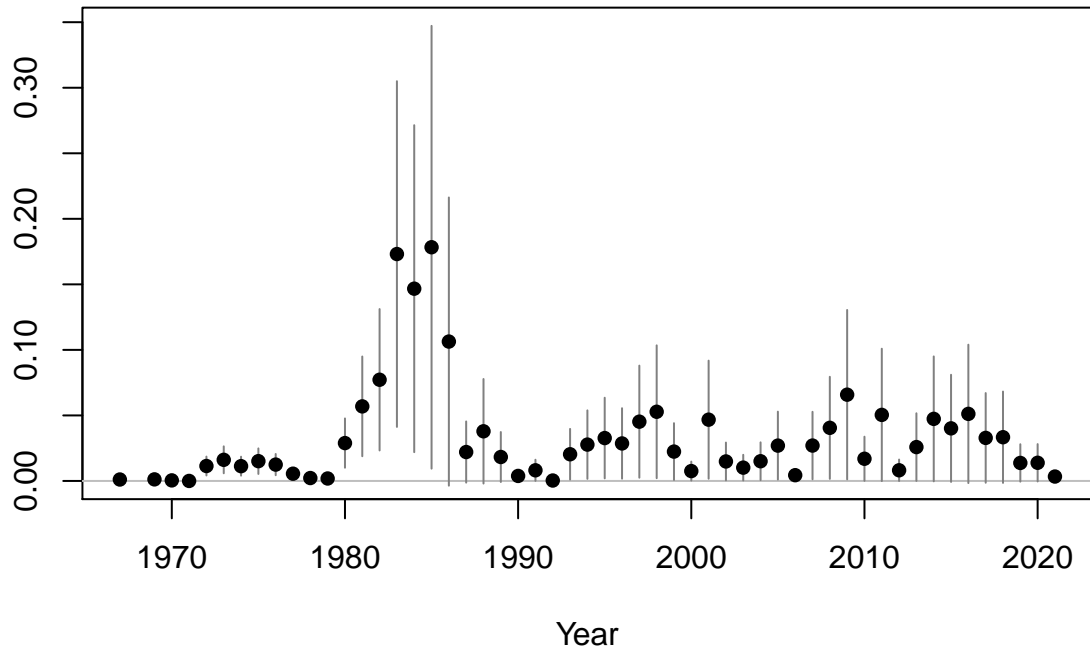
Age-0 recruits (1,000s)

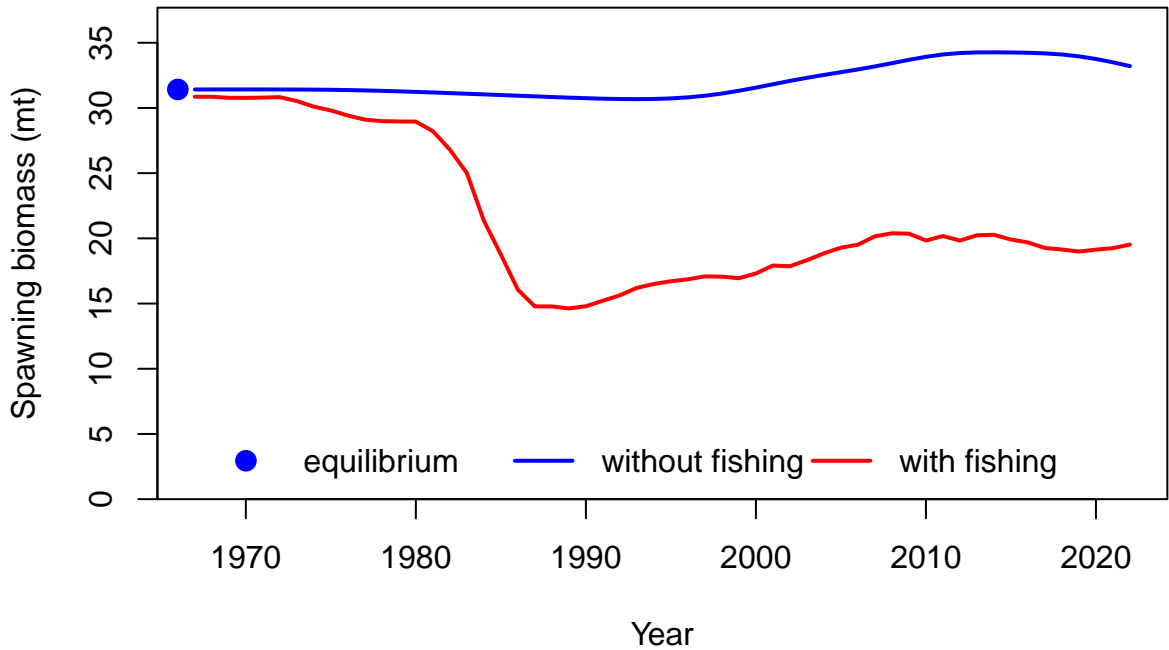


Age-0 recruits (1,000s)



Summary Fishing Mortality





Log recruitment deviation

0.4
0.2
-0.2
-0.6

1970

1980

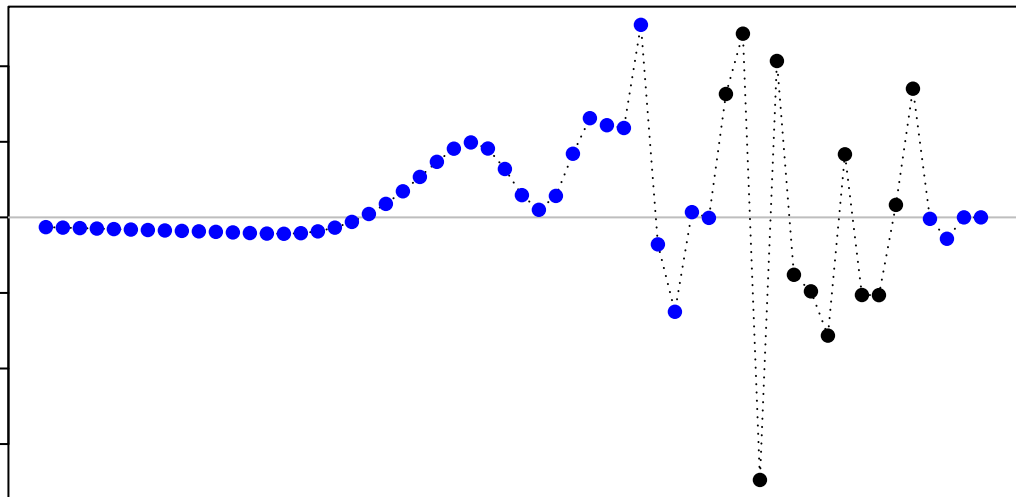
1990

2000

2010

2020

Year



Log recruitment deviation

1.0
0.5
0.0
-0.5
-1.0

1970

1980

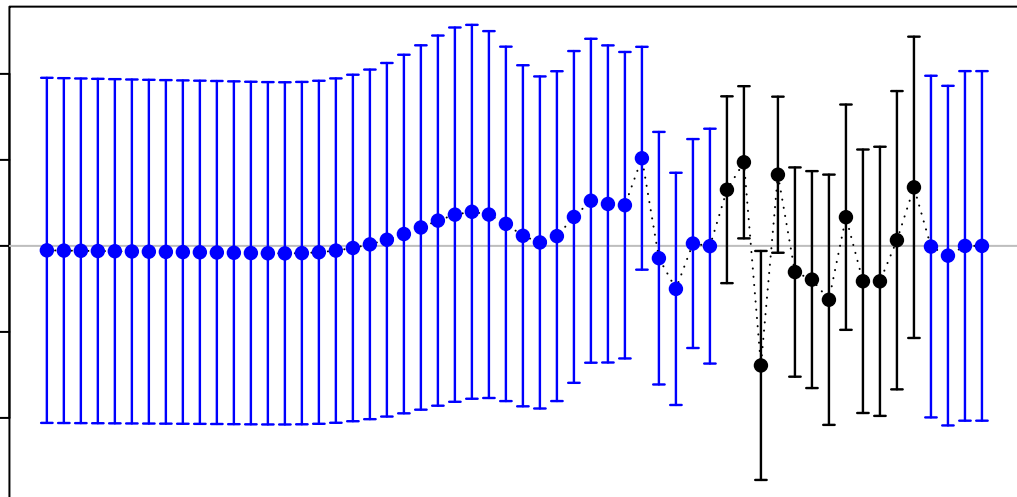
1990

2000

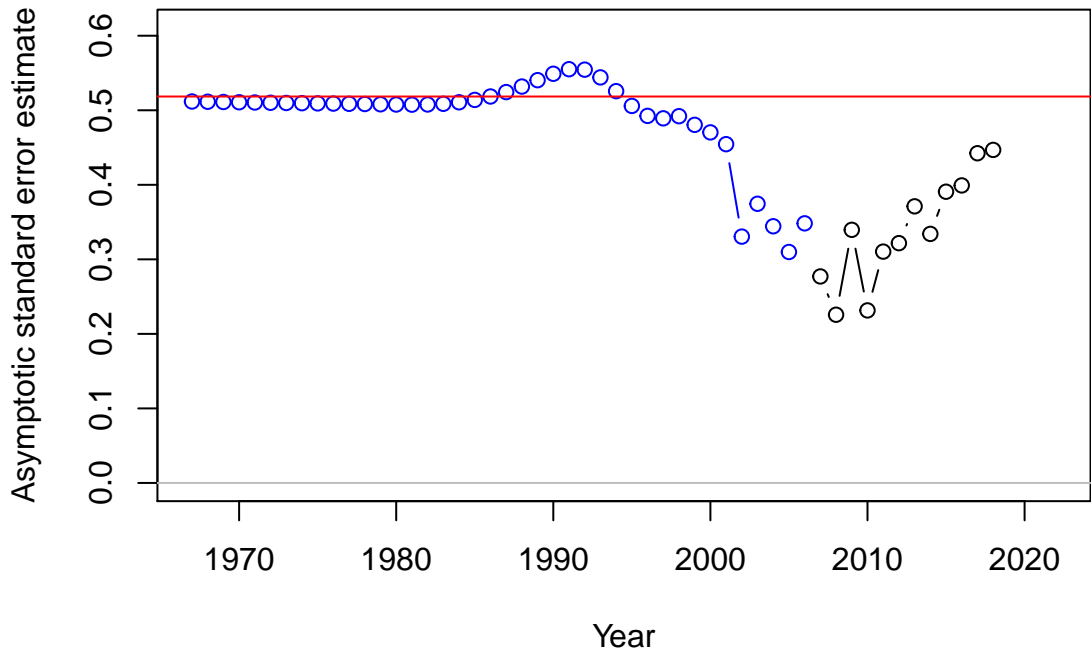
2010

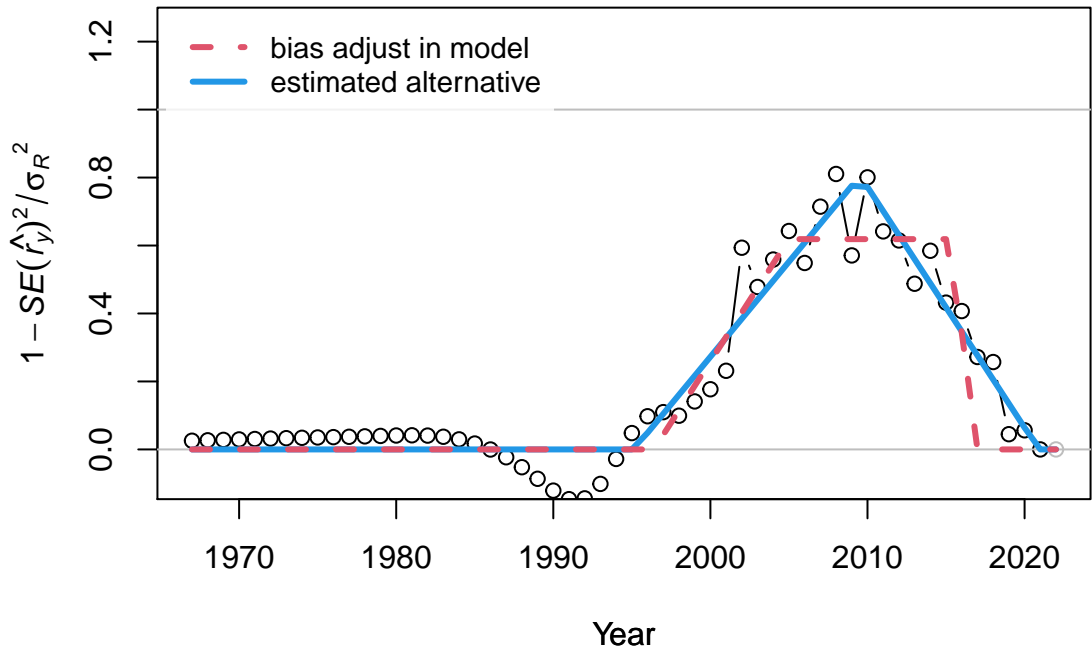
2020

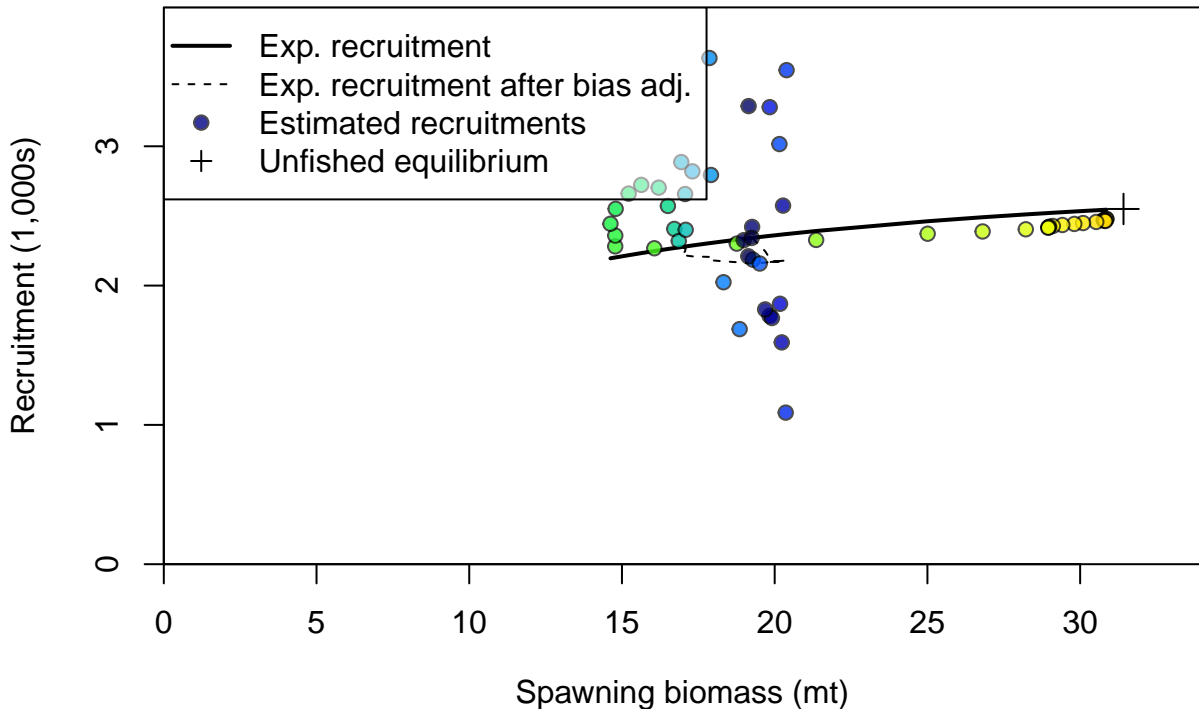
Year

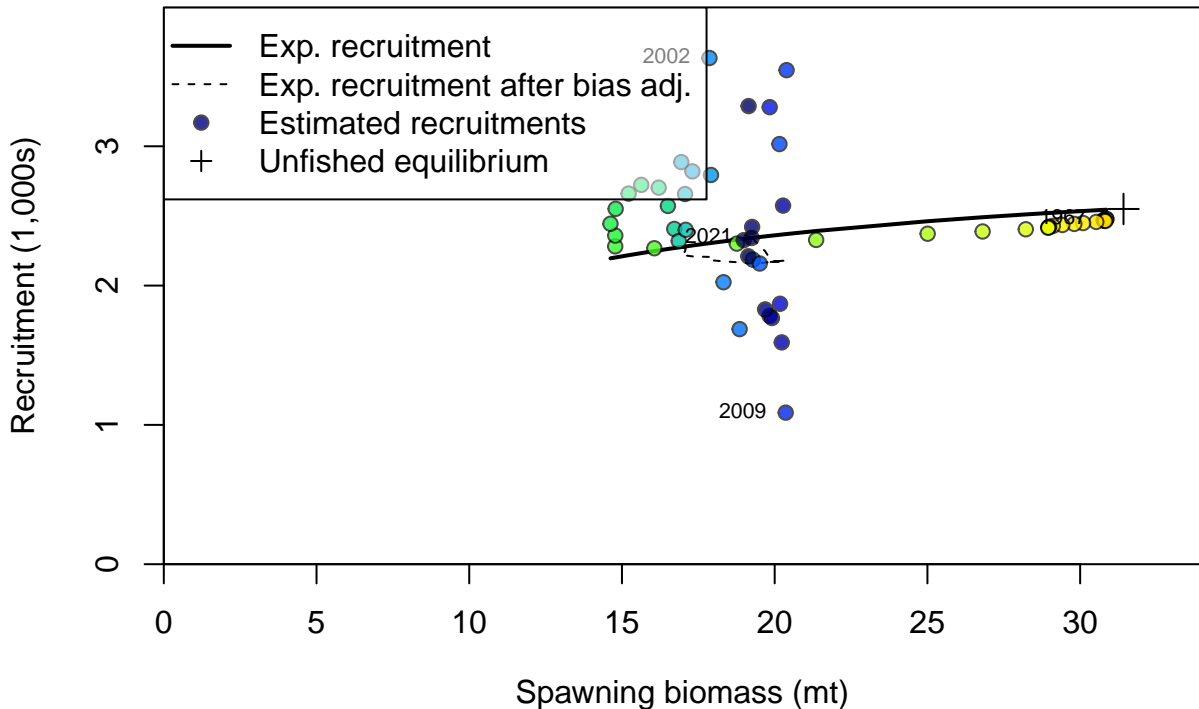


Recruitment deviation variance









Log recruitment deviation

0.6
0.4
0.2
0.0
-0.2
-0.4
-0.6

0.0

0.2

0.4

0.6

0.8

1.0

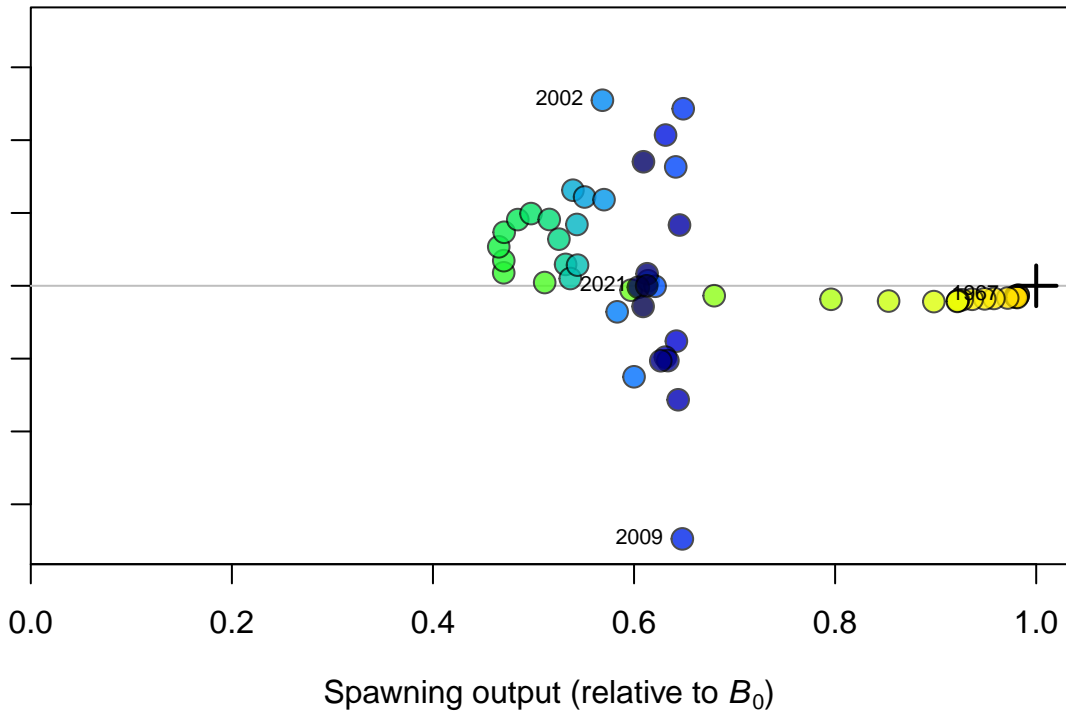
Spawning output (relative to B_0)

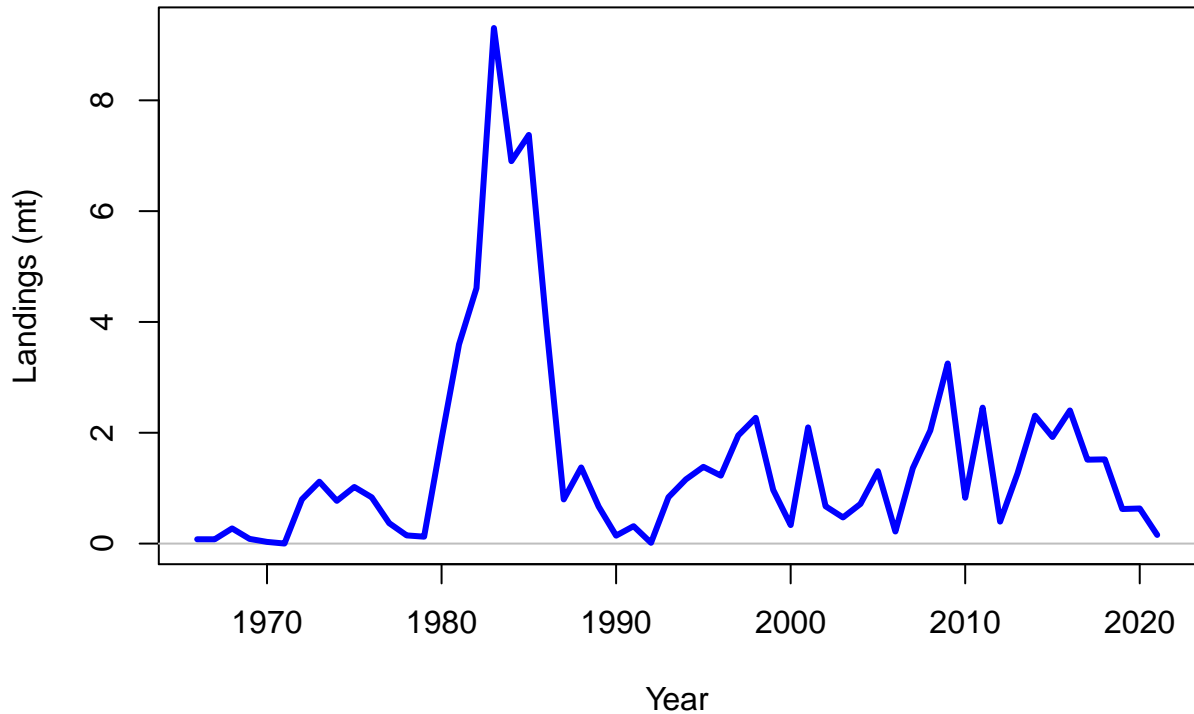
2002

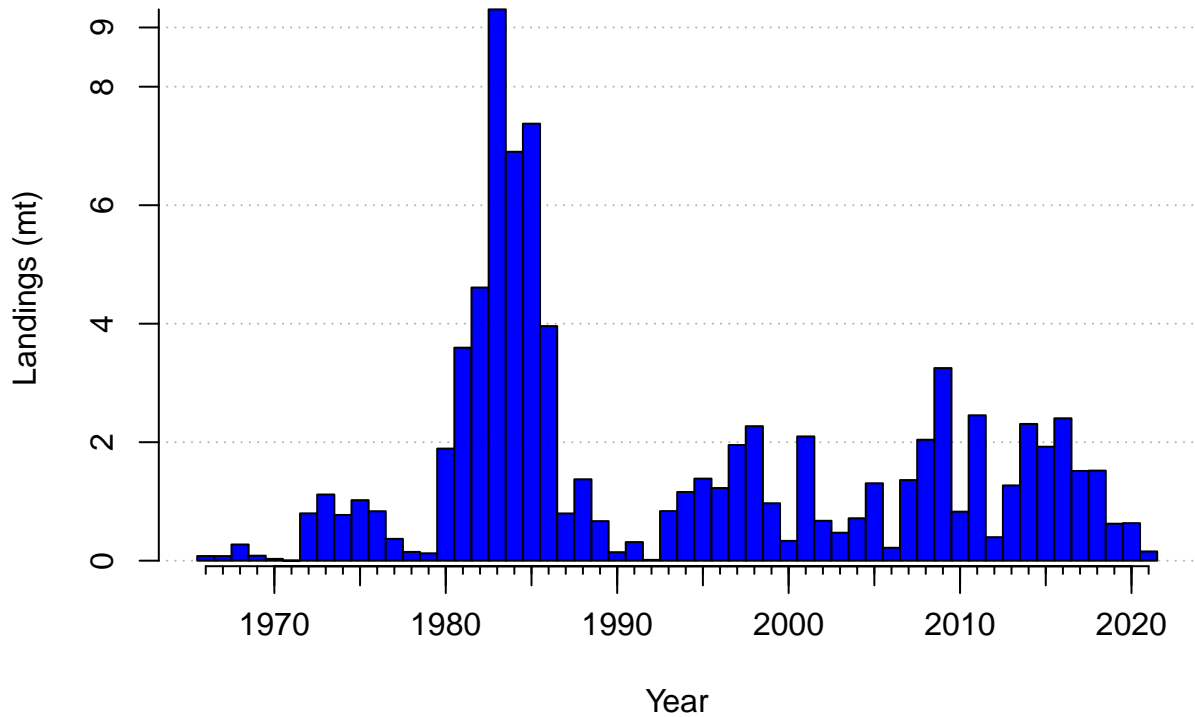
2021

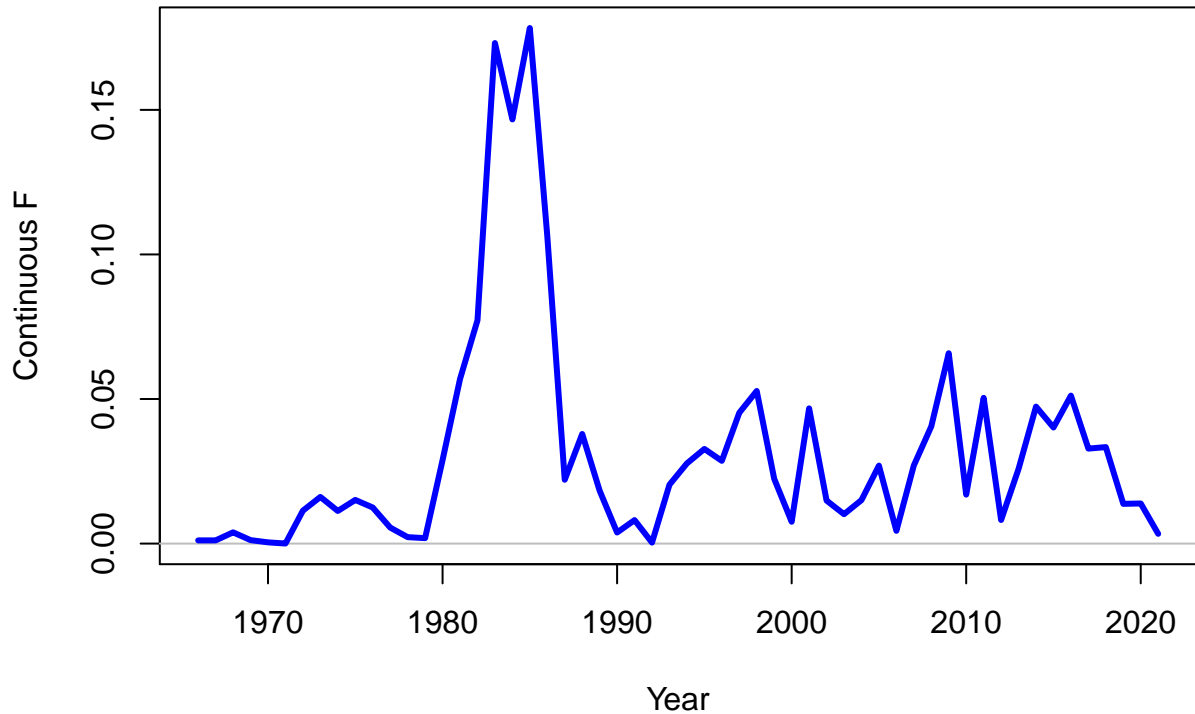
2009

1967

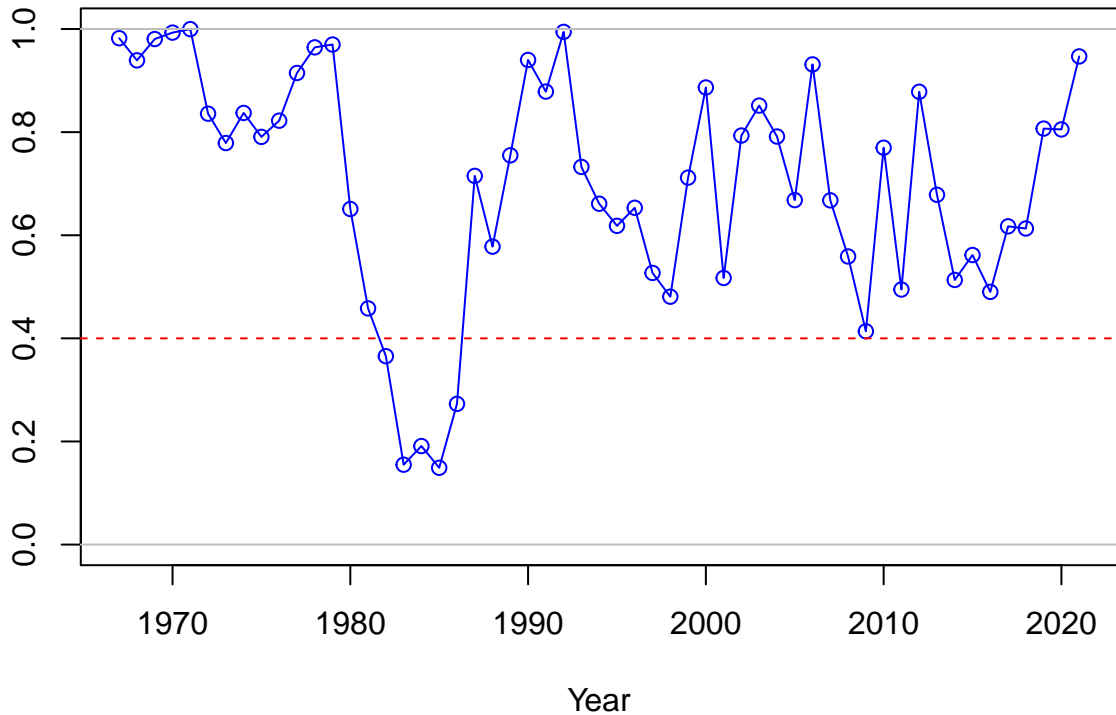


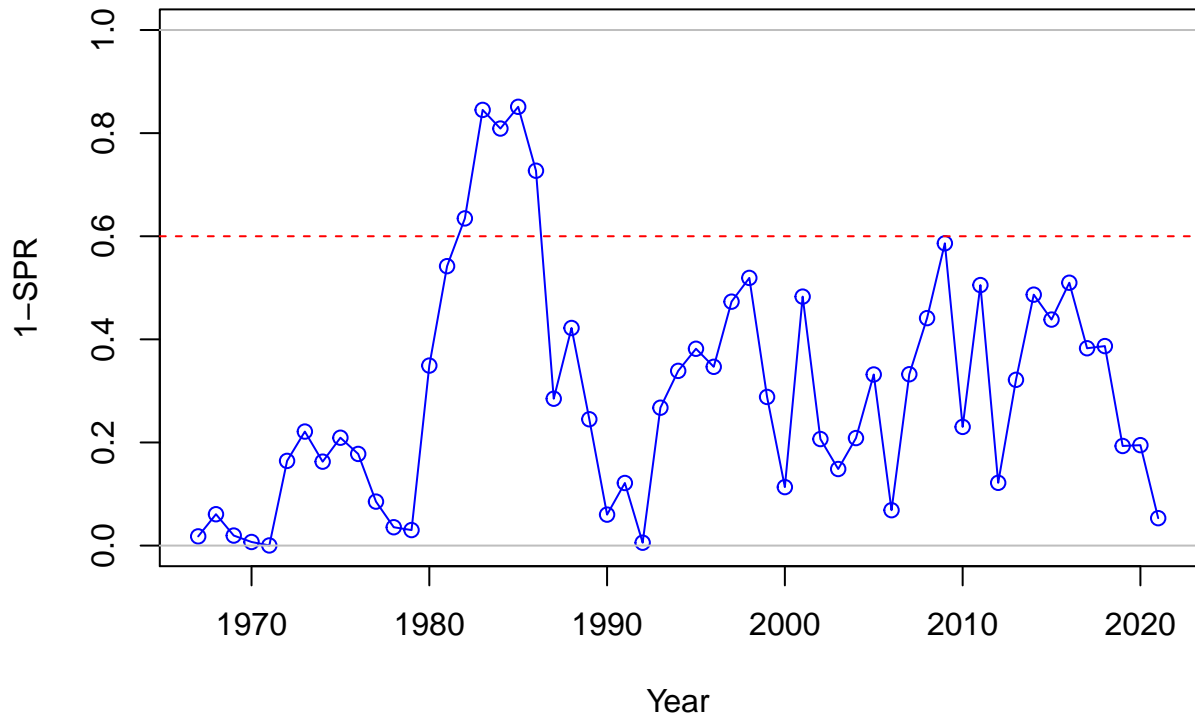




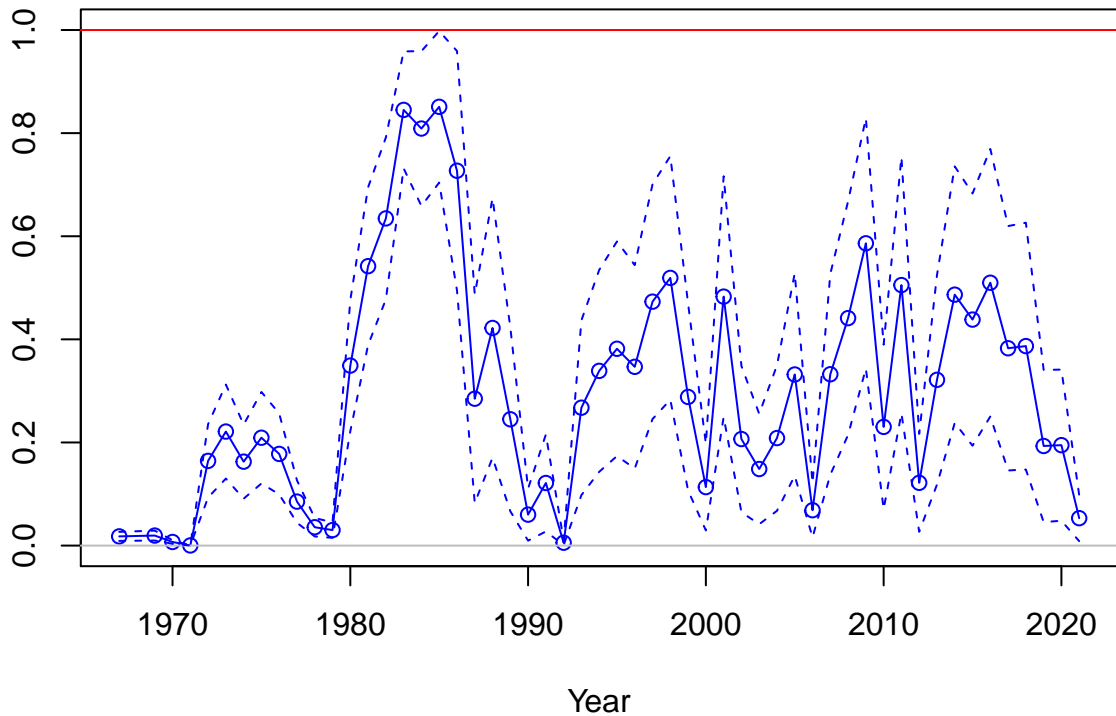


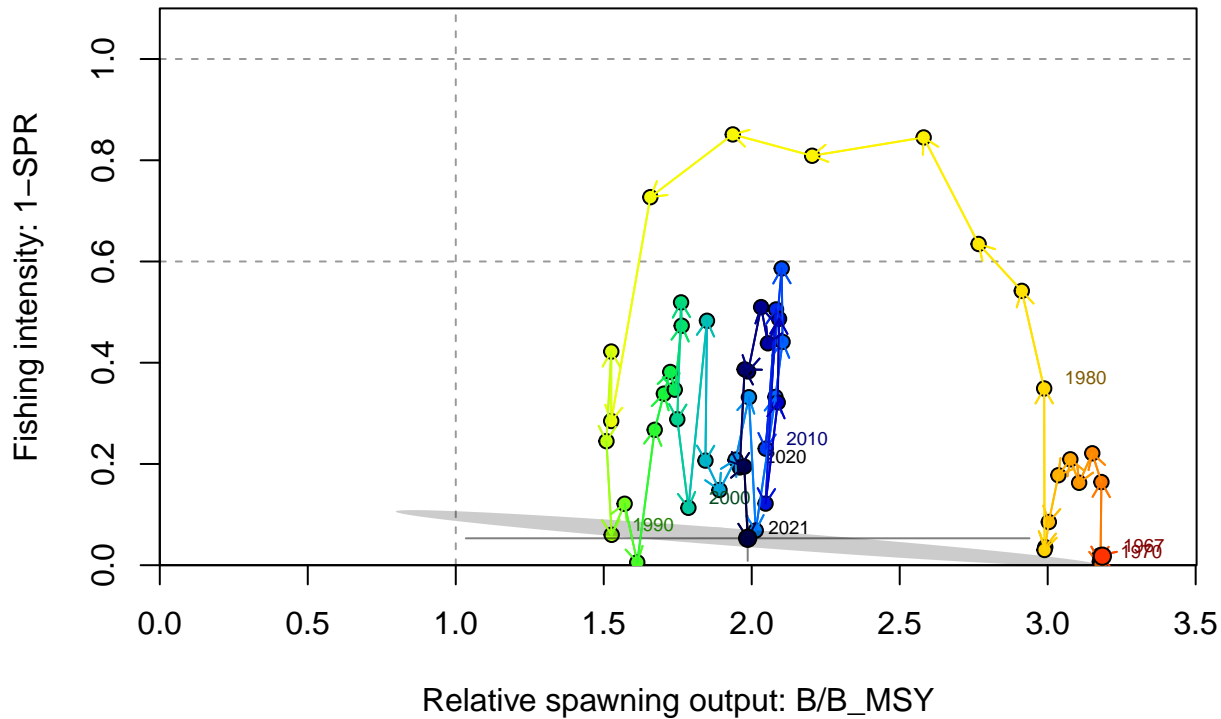
SPR



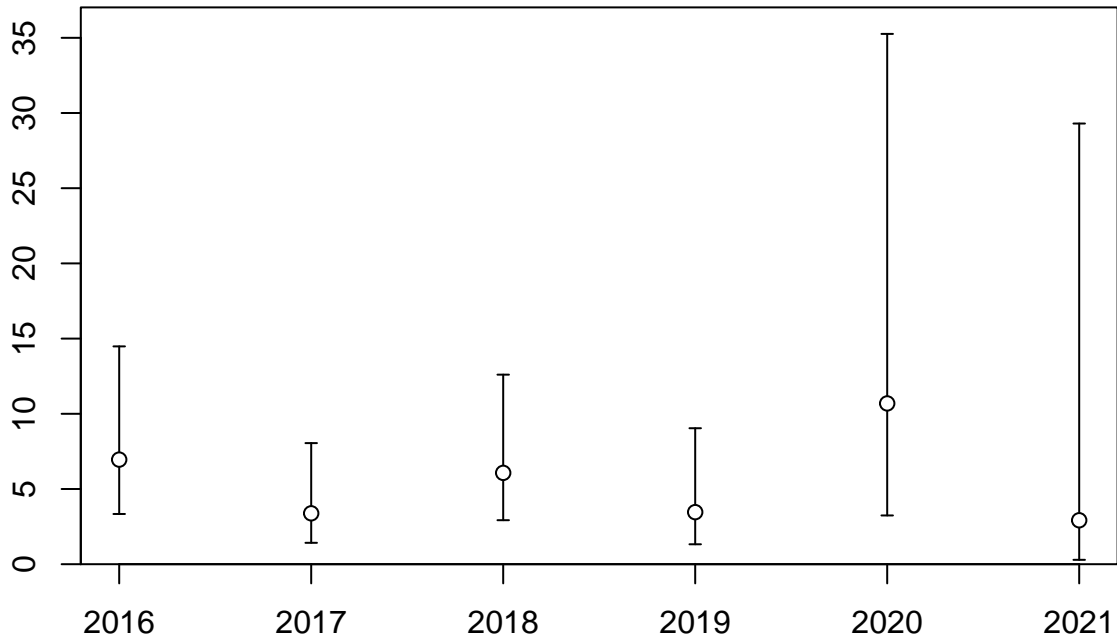


Fishing intensity: 1-SPR



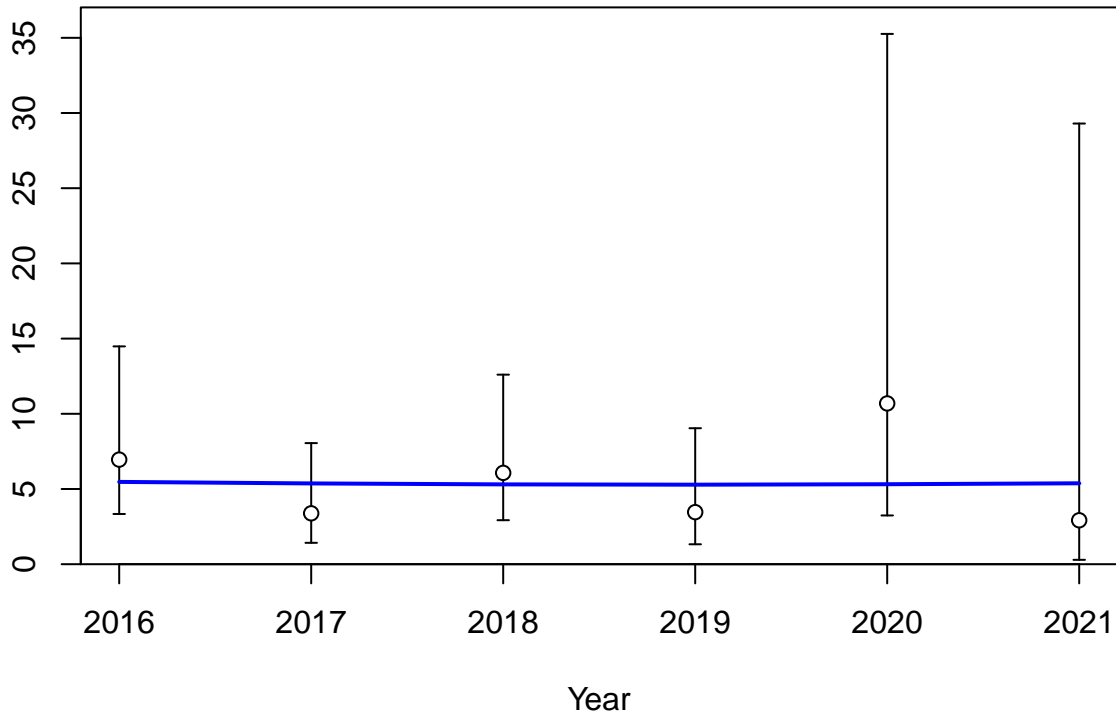


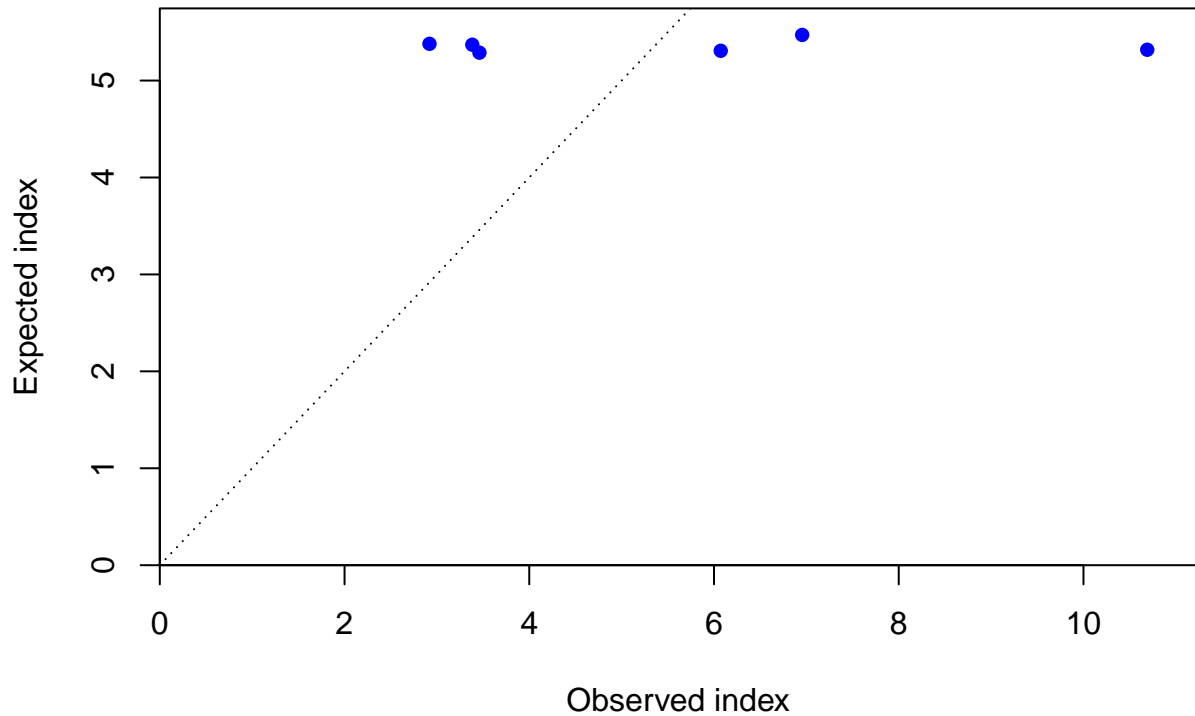
Index

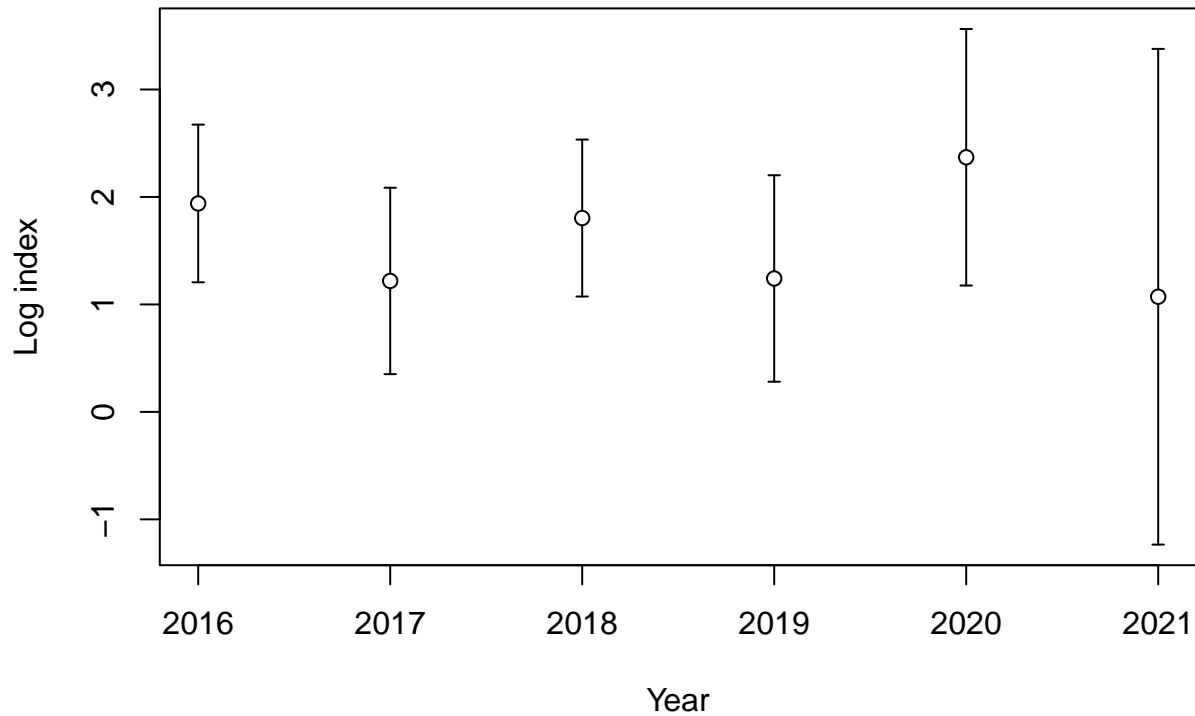


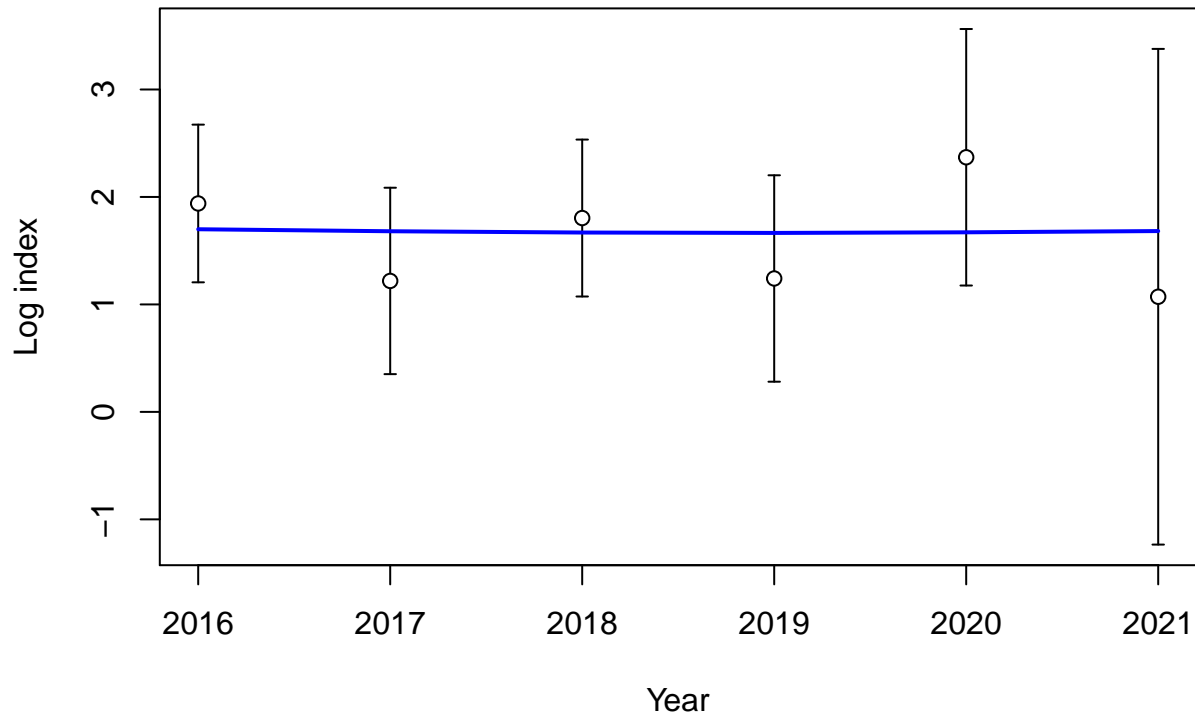
Year

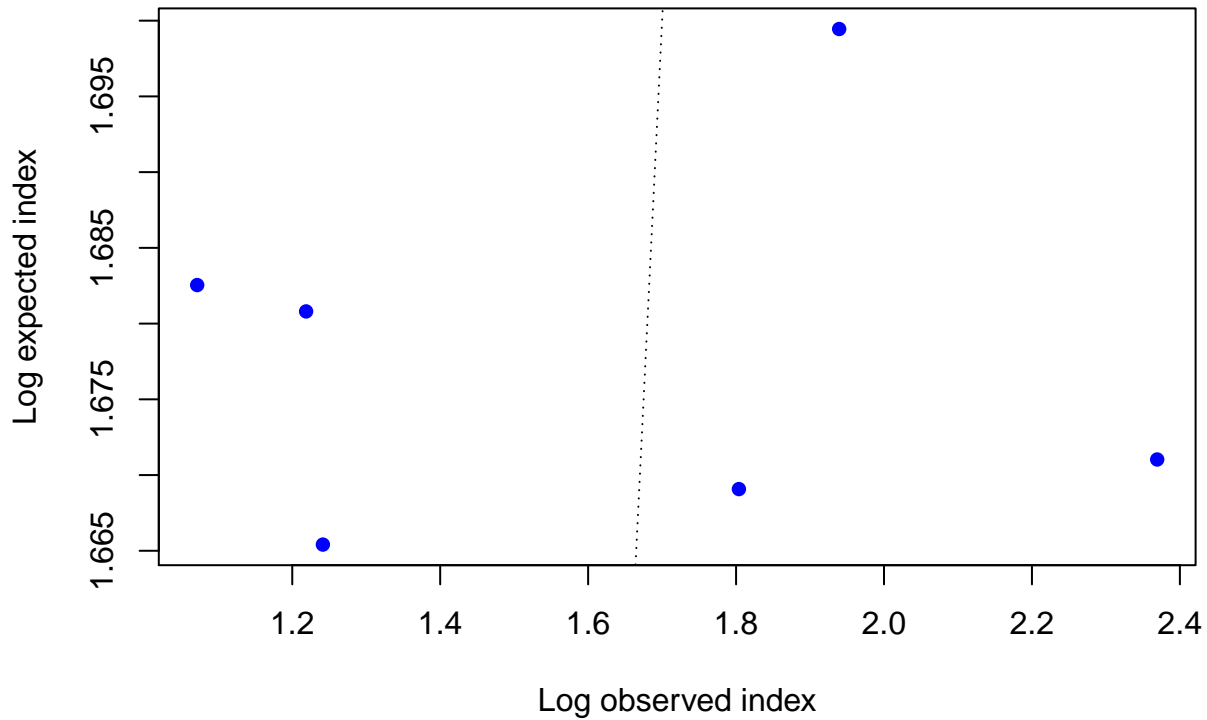
Index



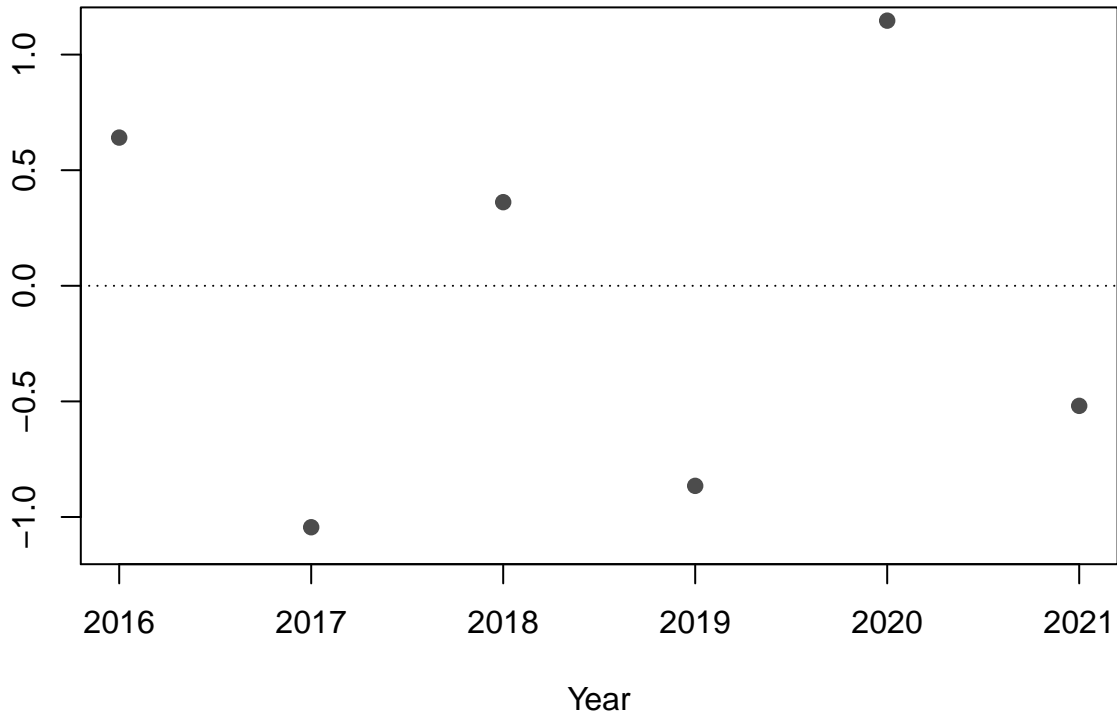


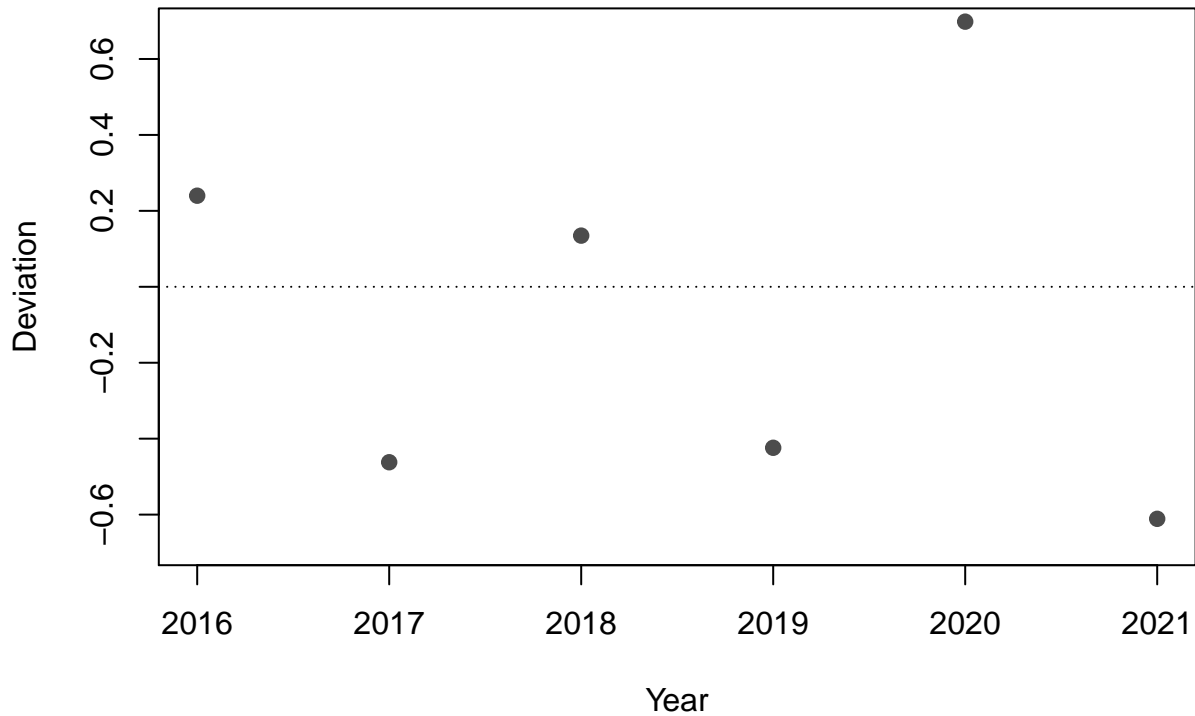


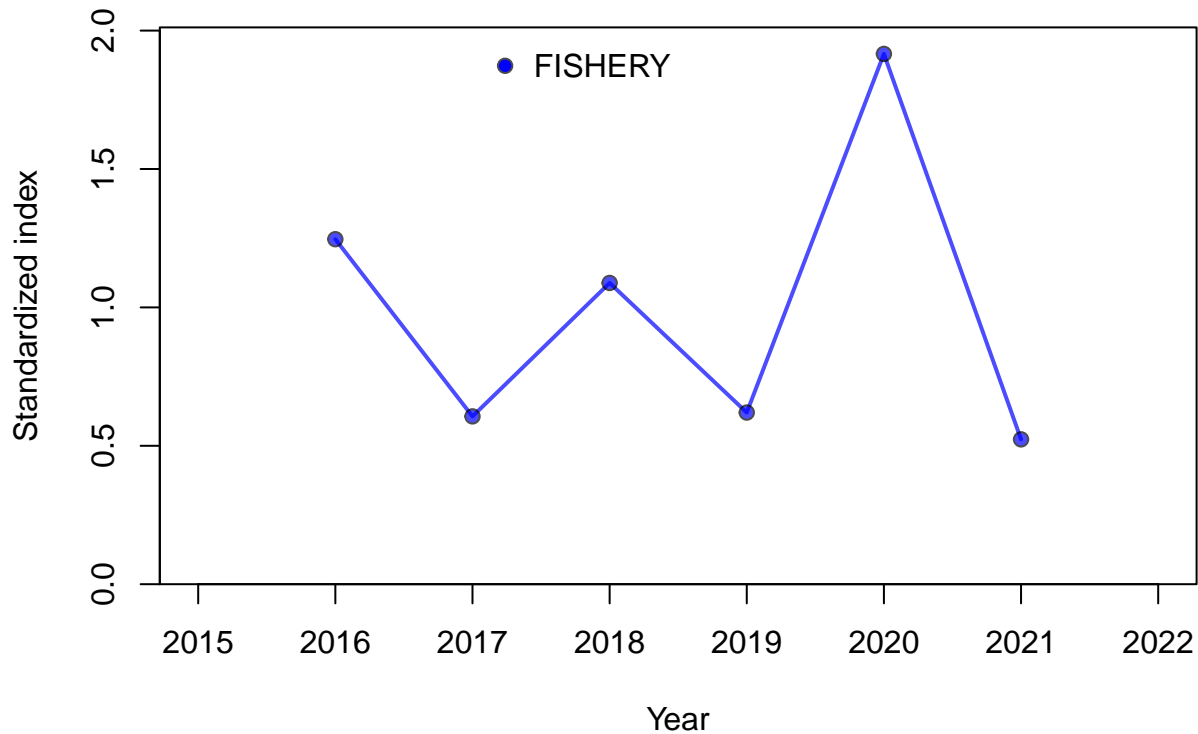


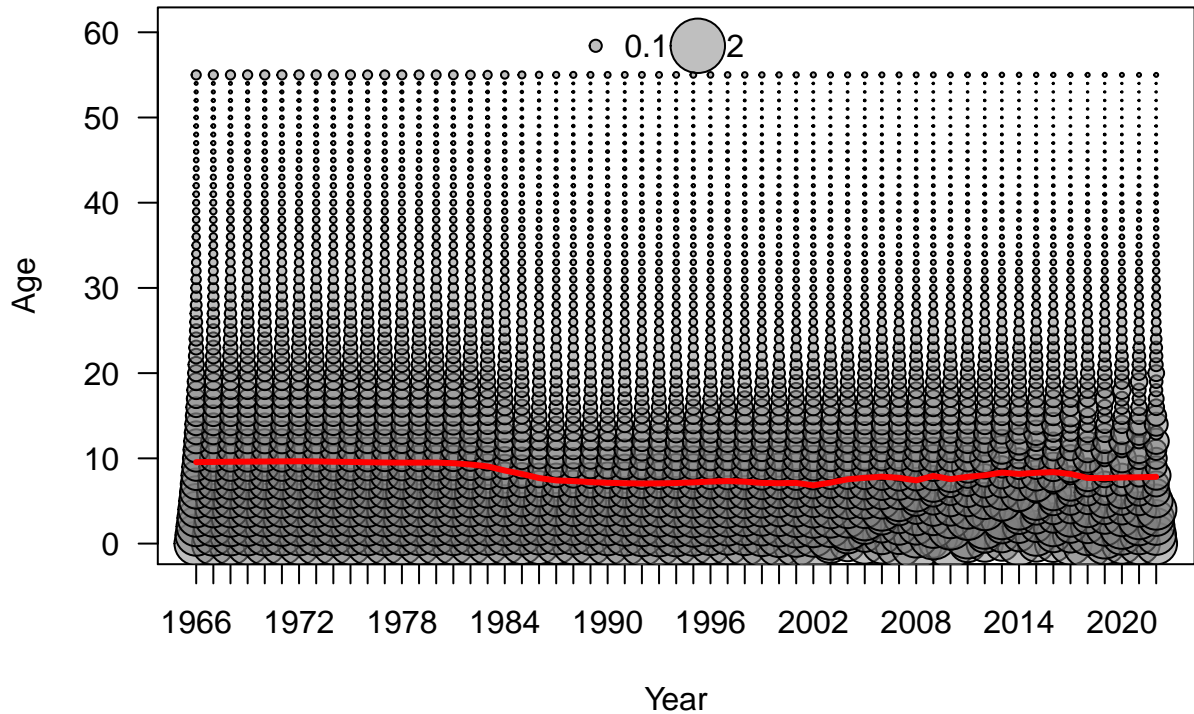


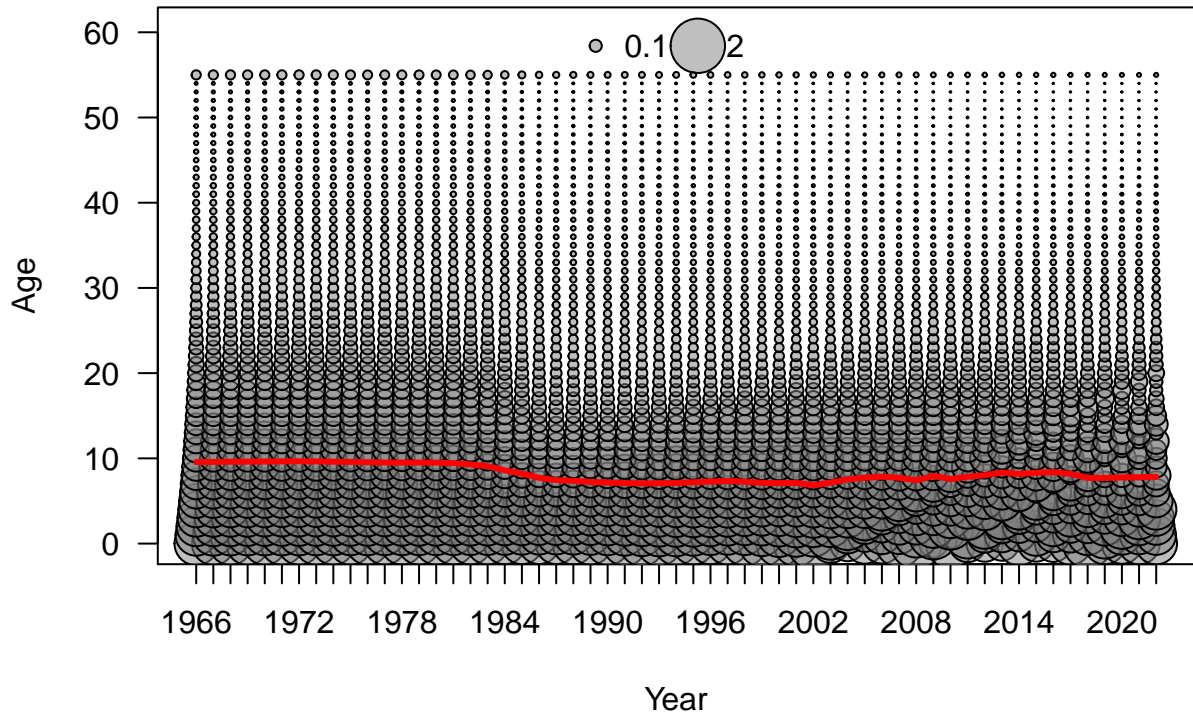
Residual

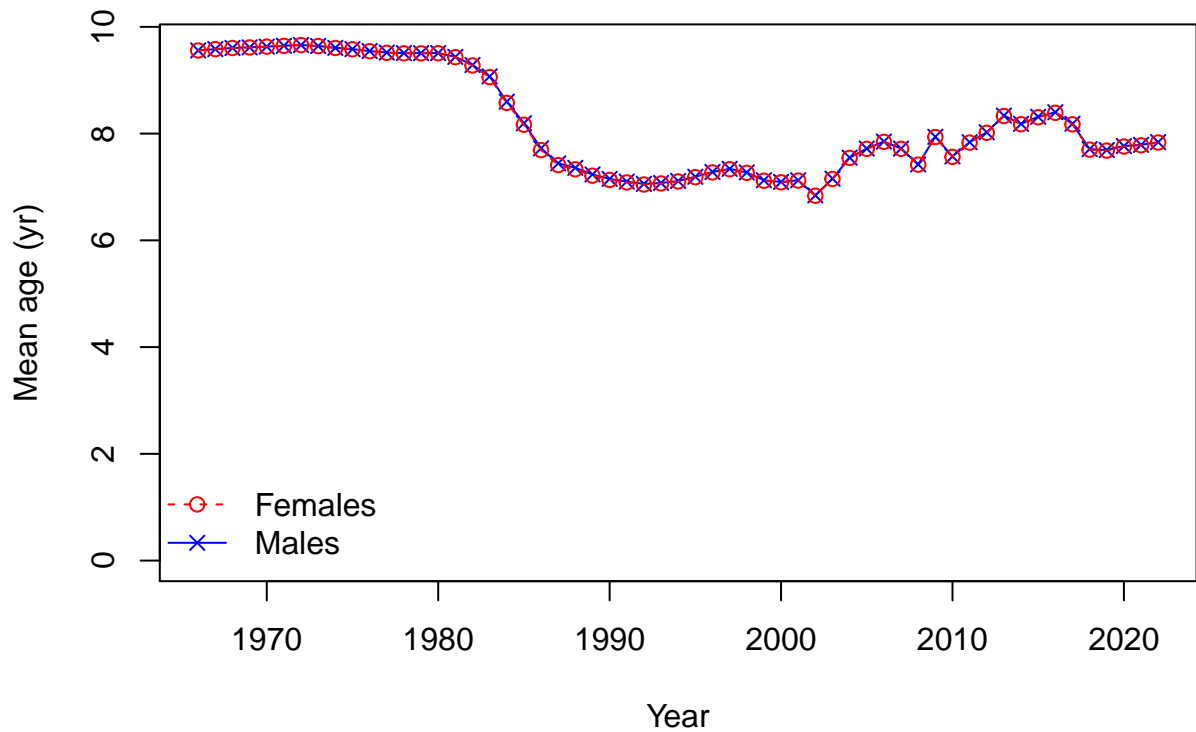


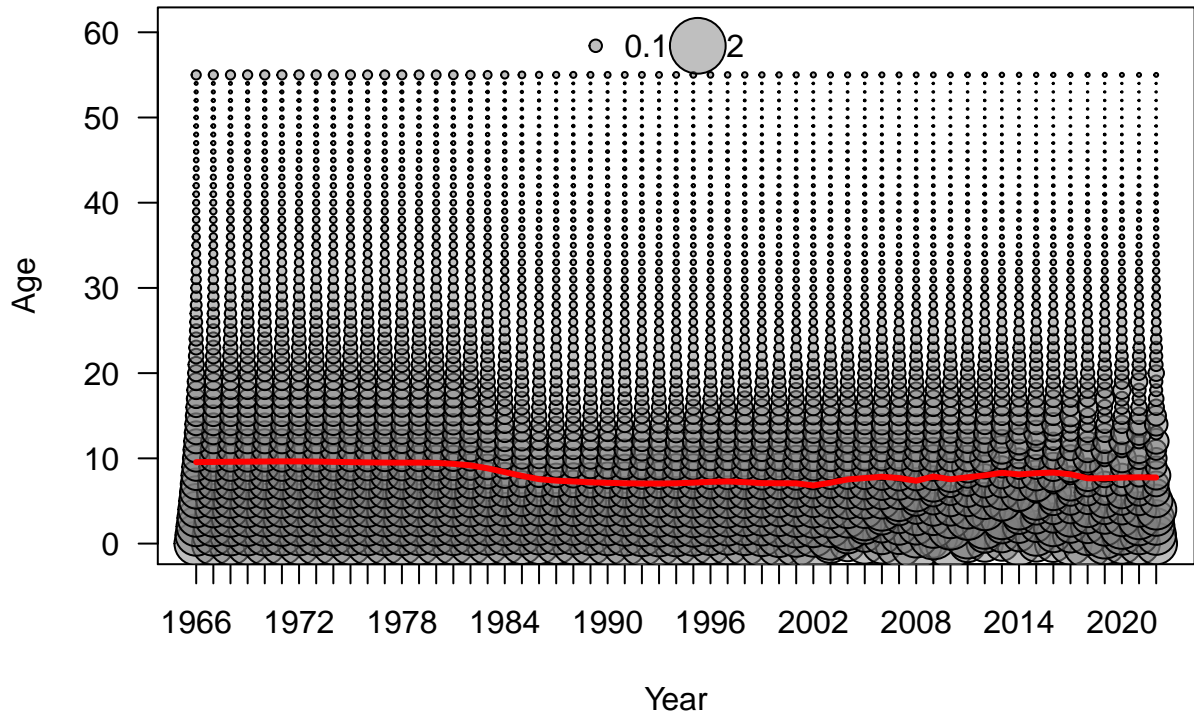


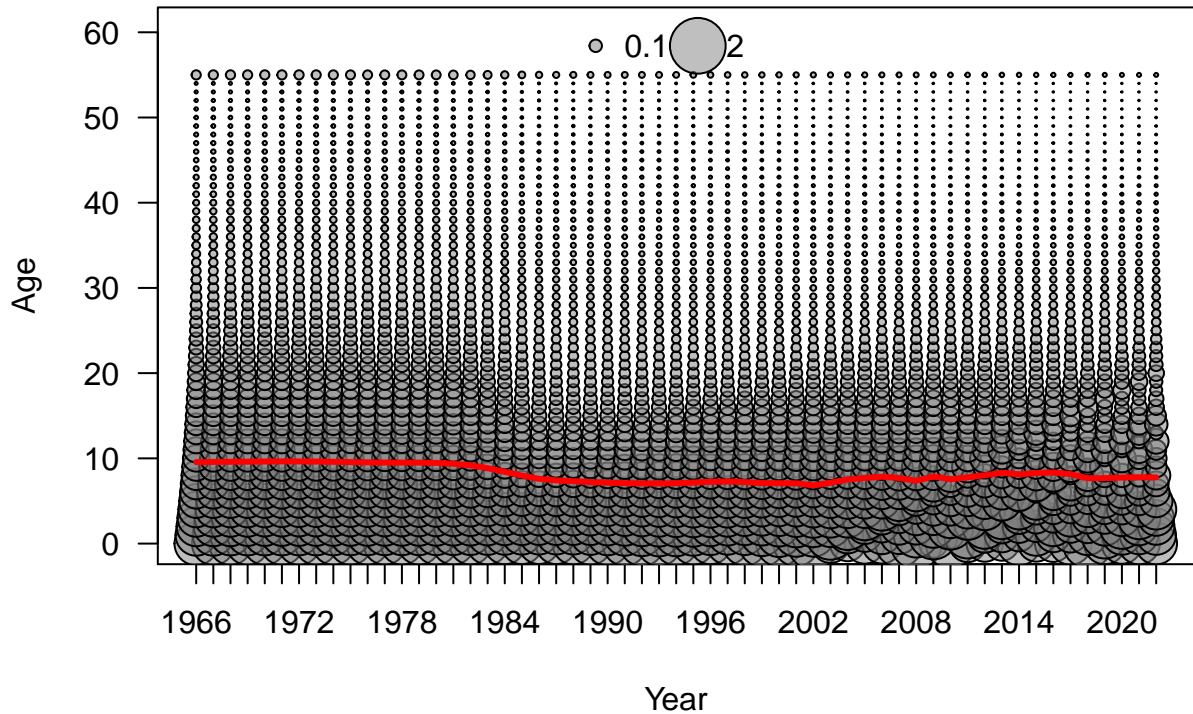


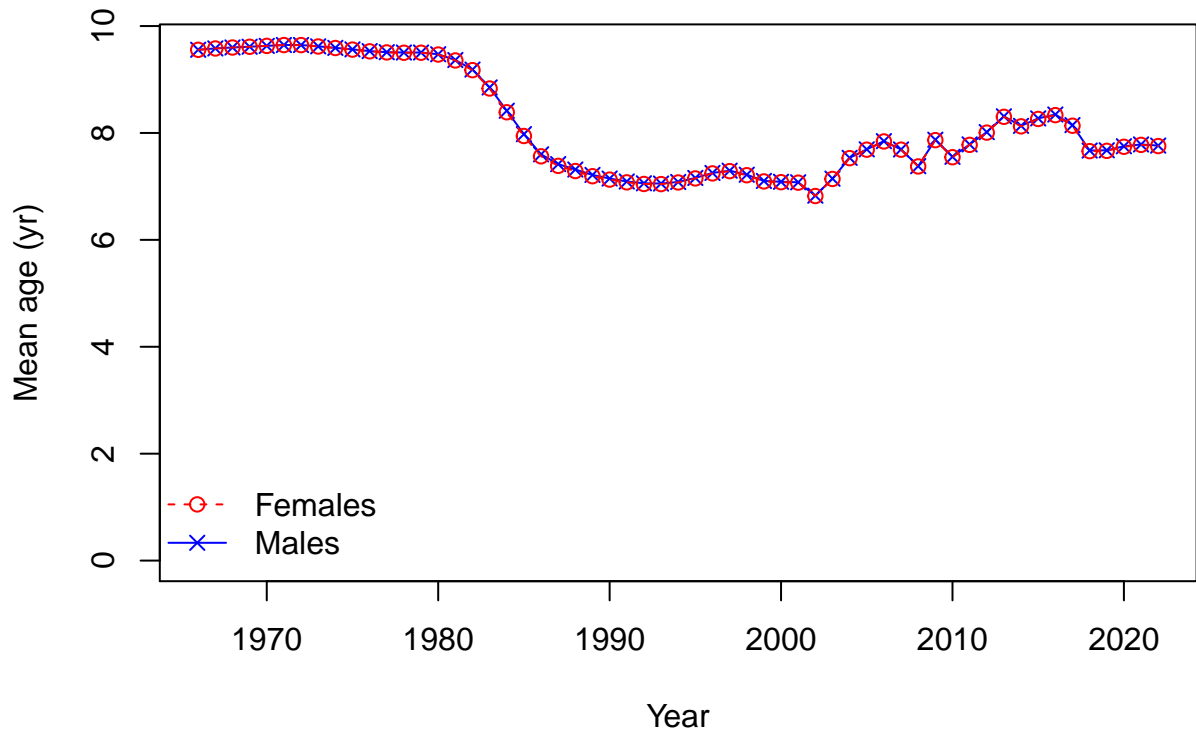


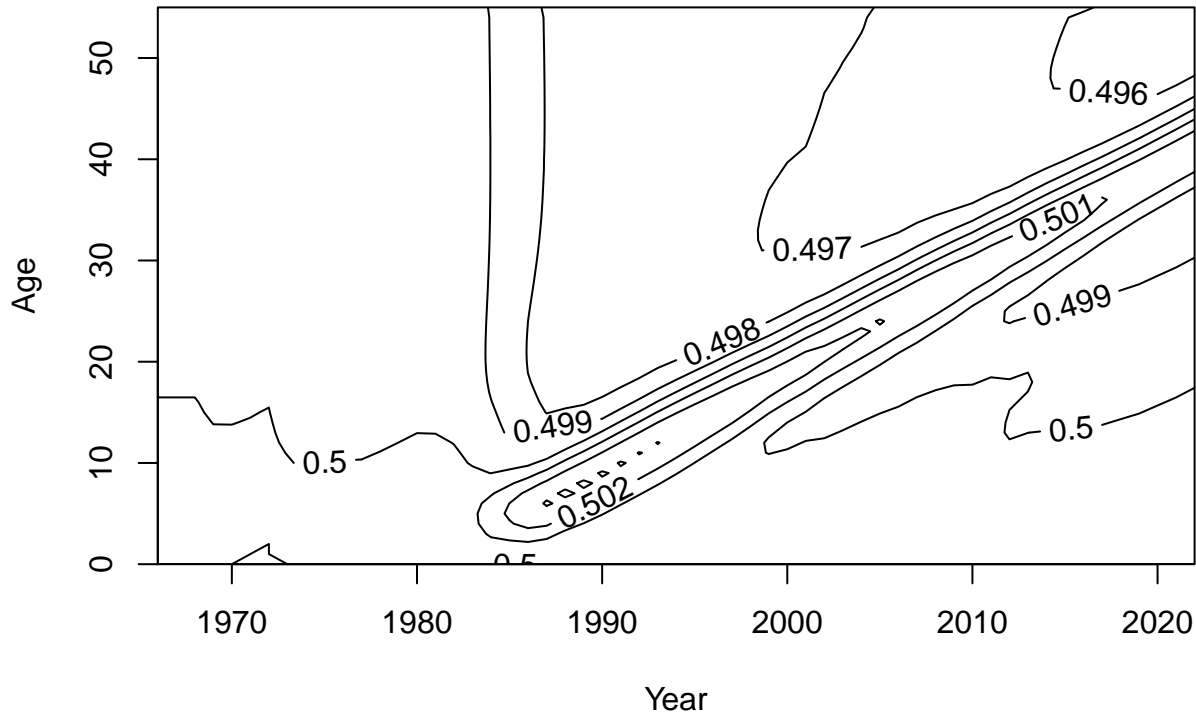


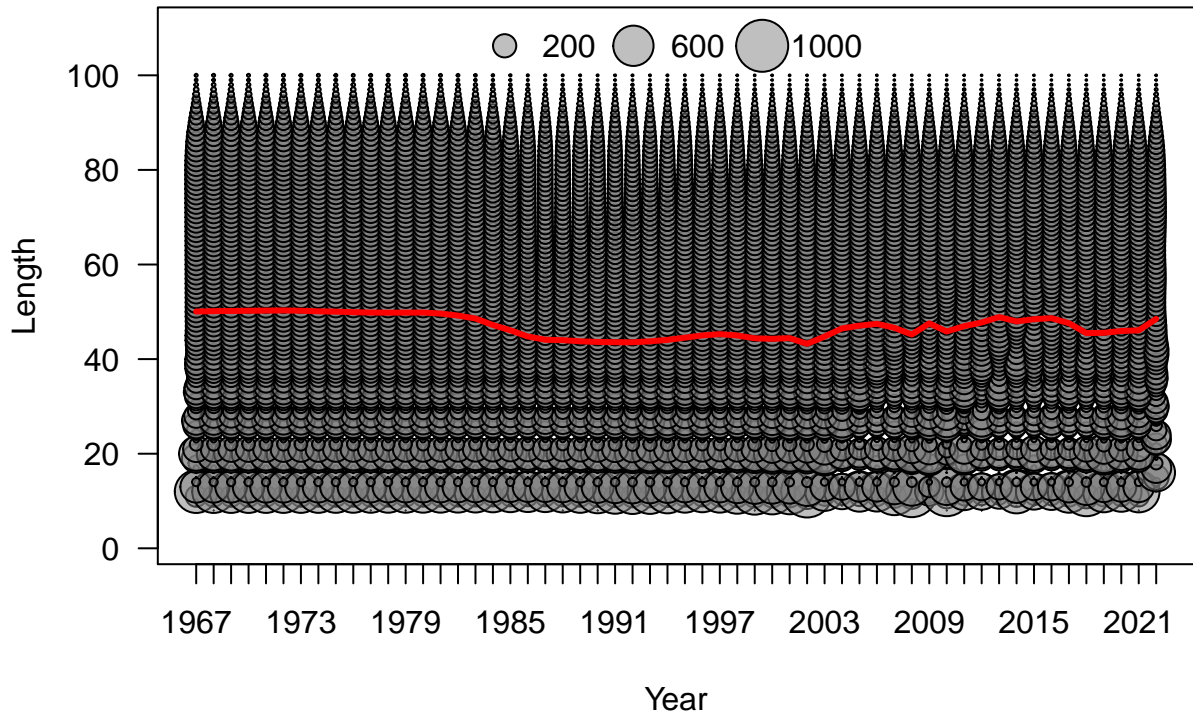


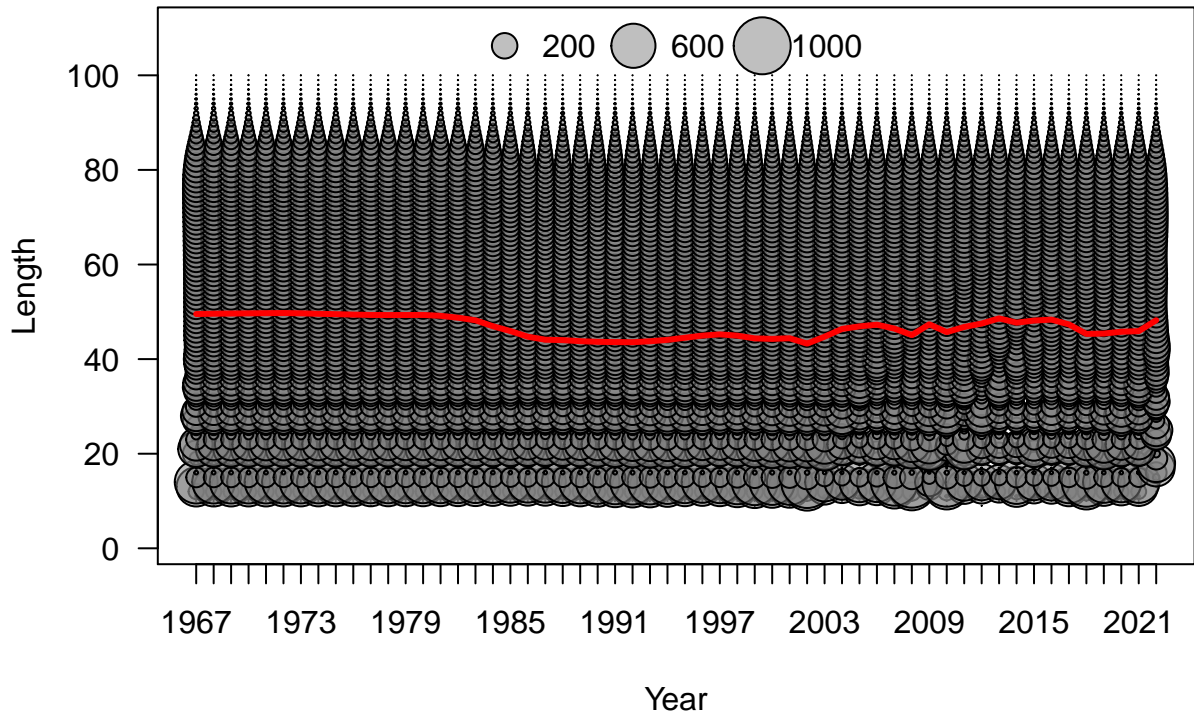


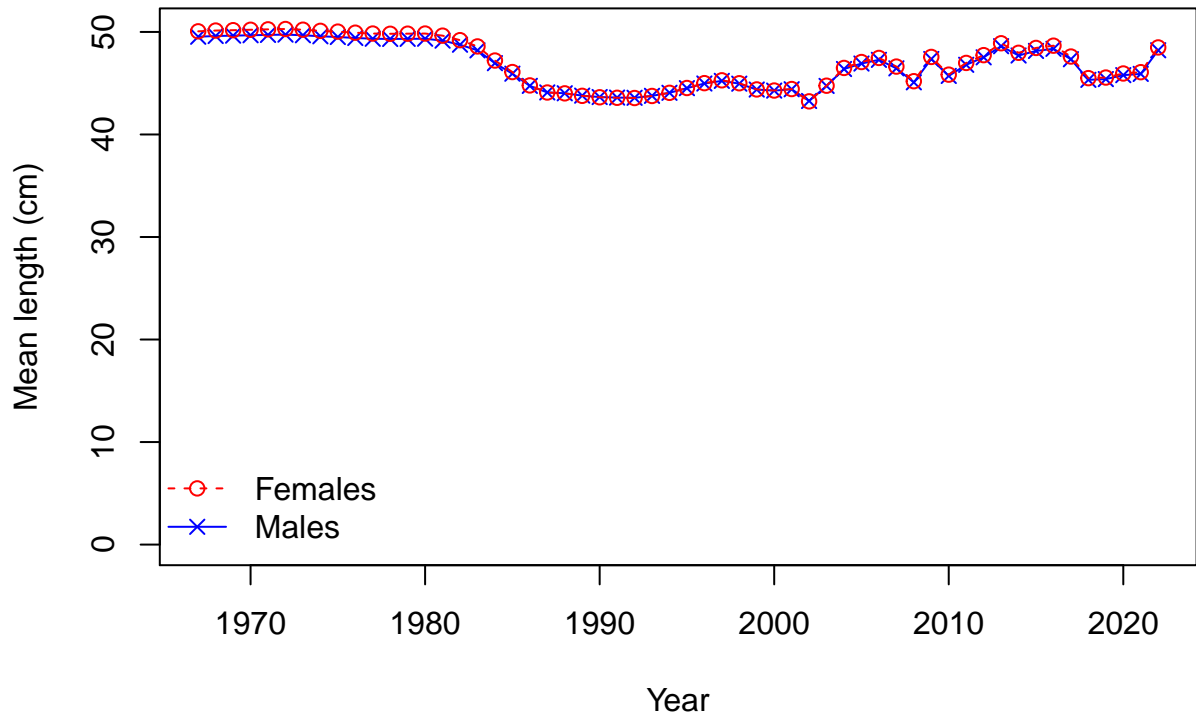


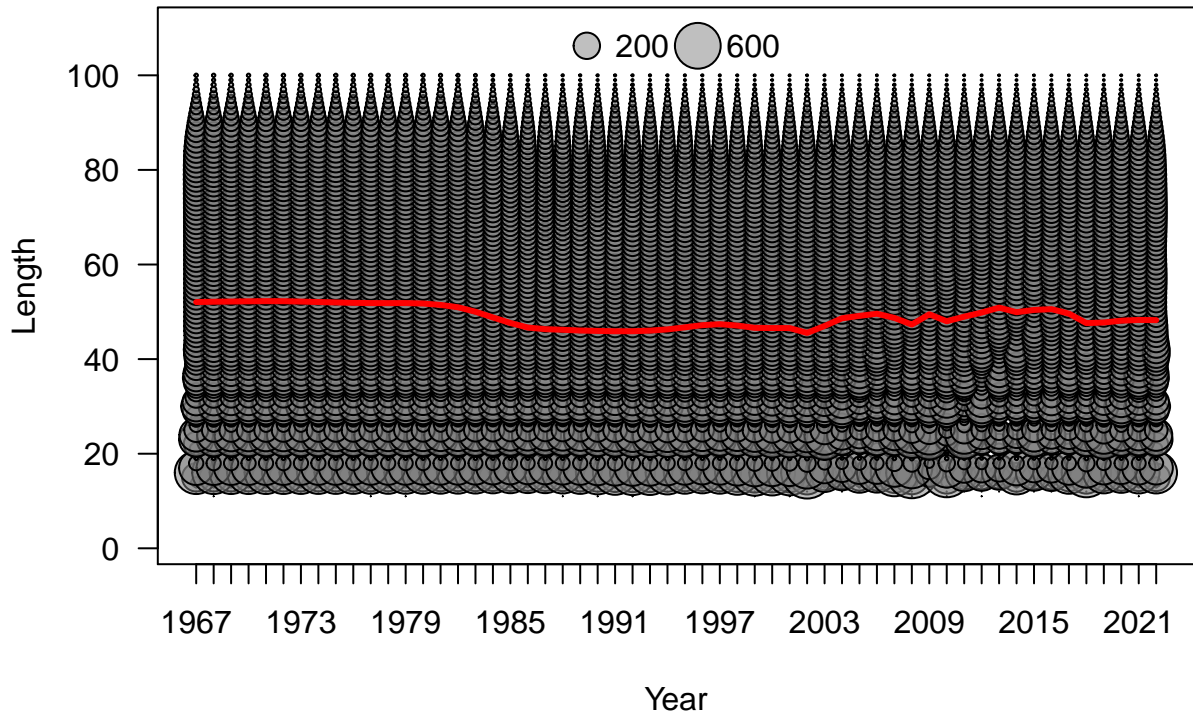


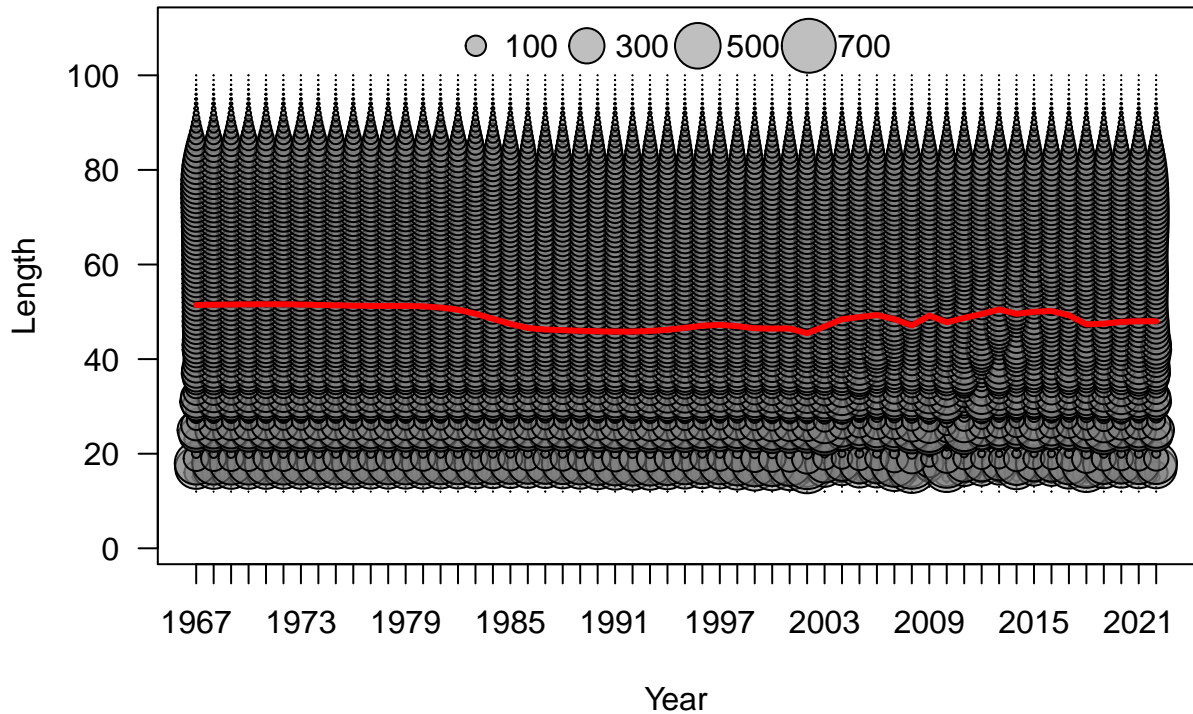


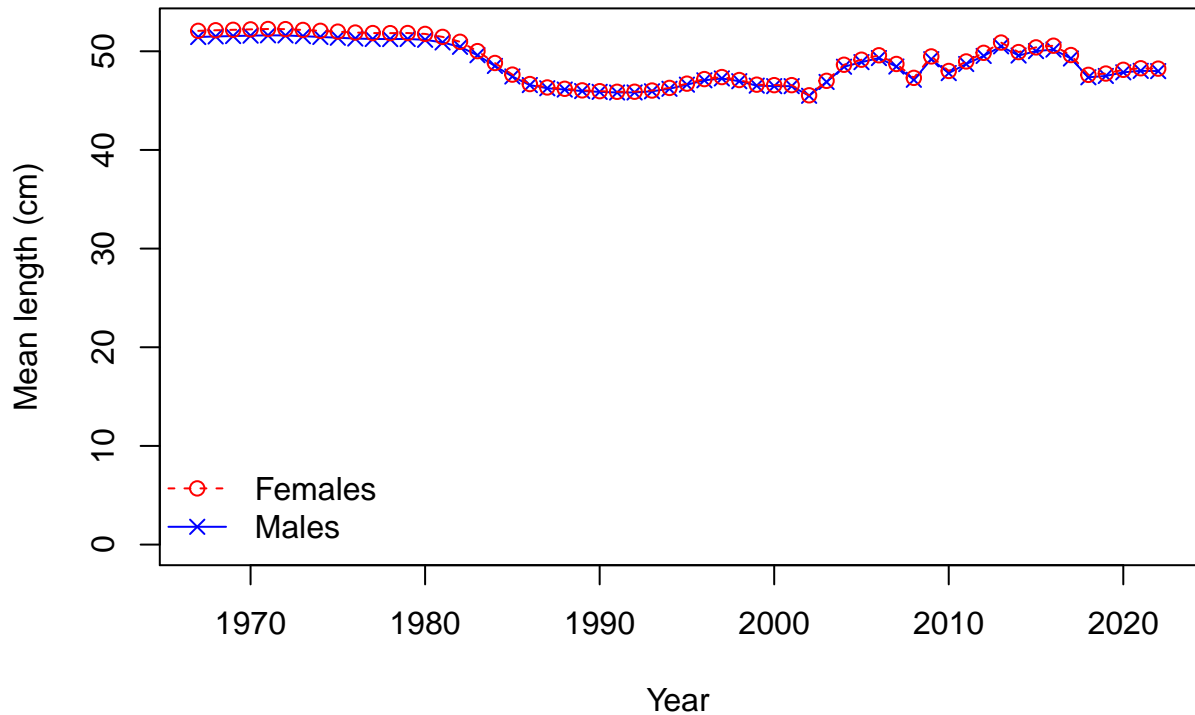


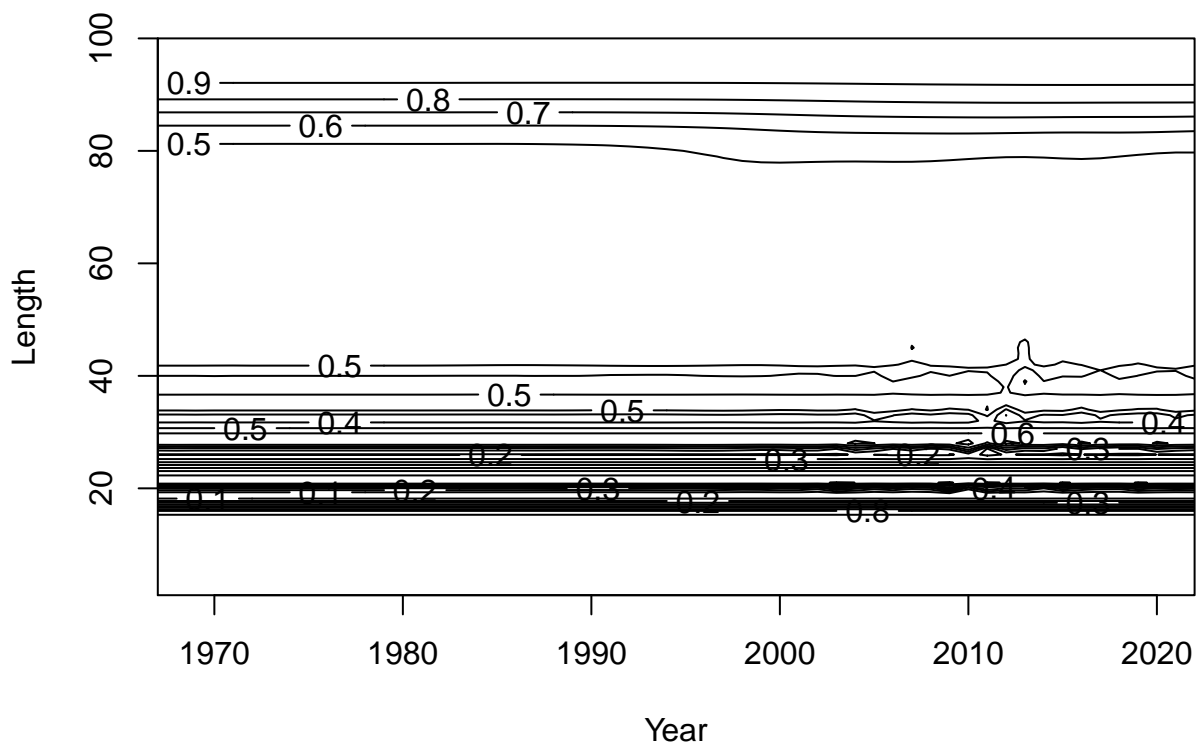


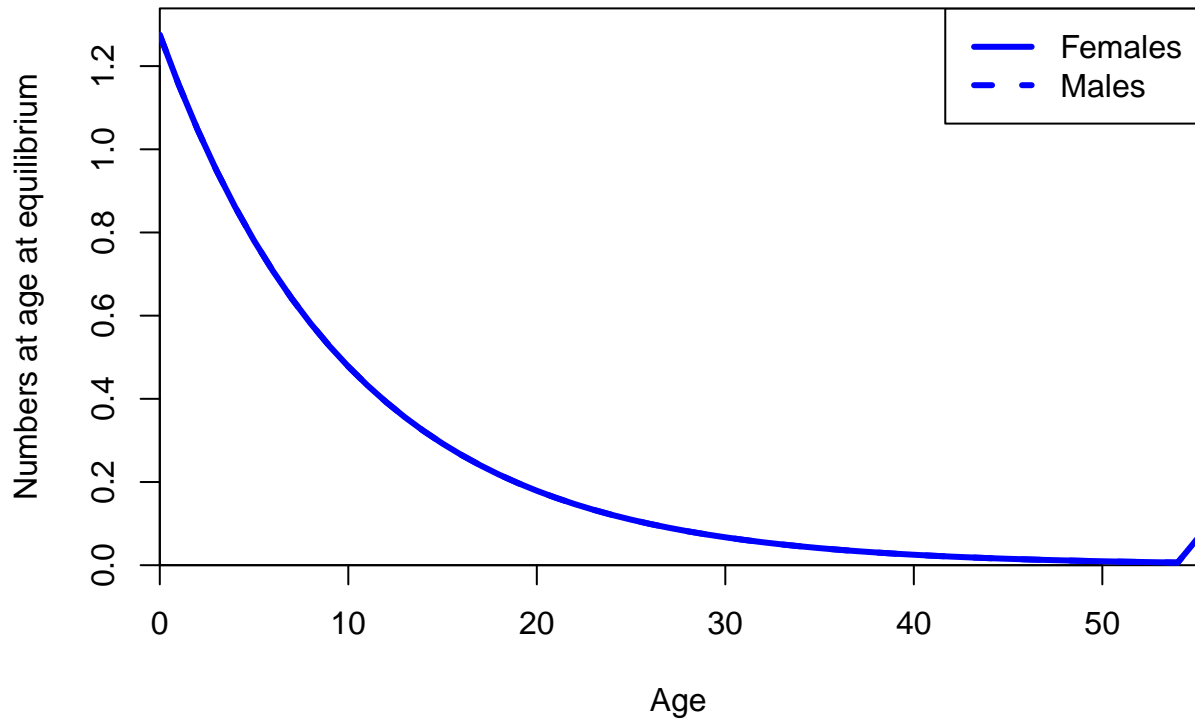


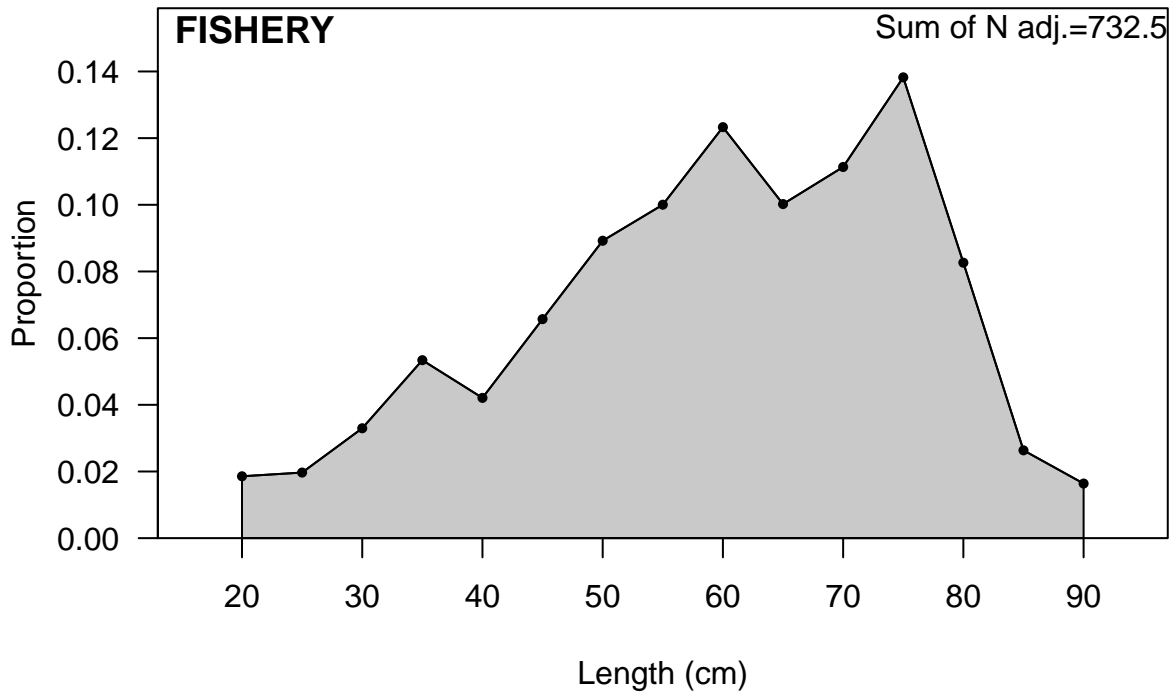






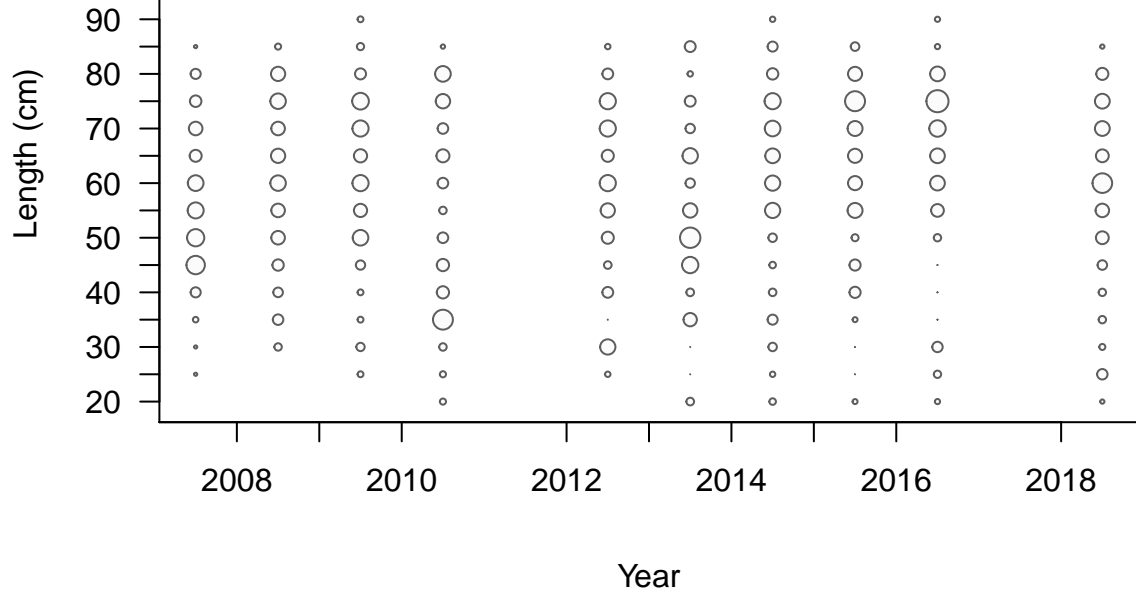




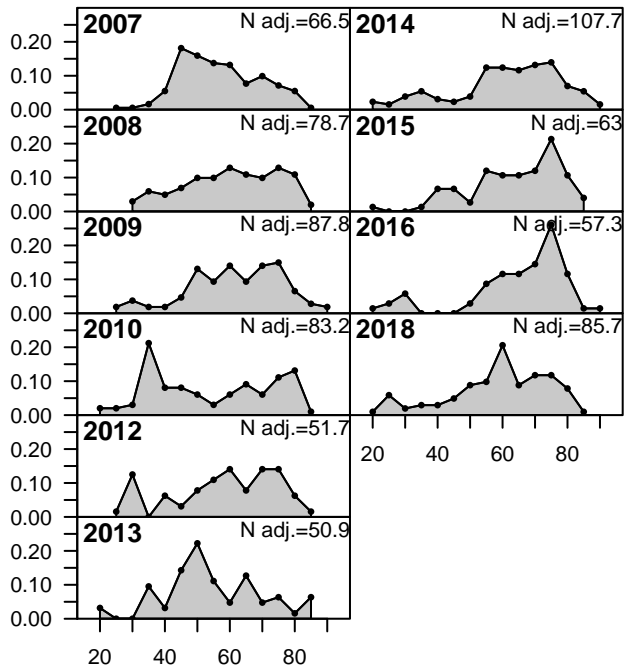


FISHERY

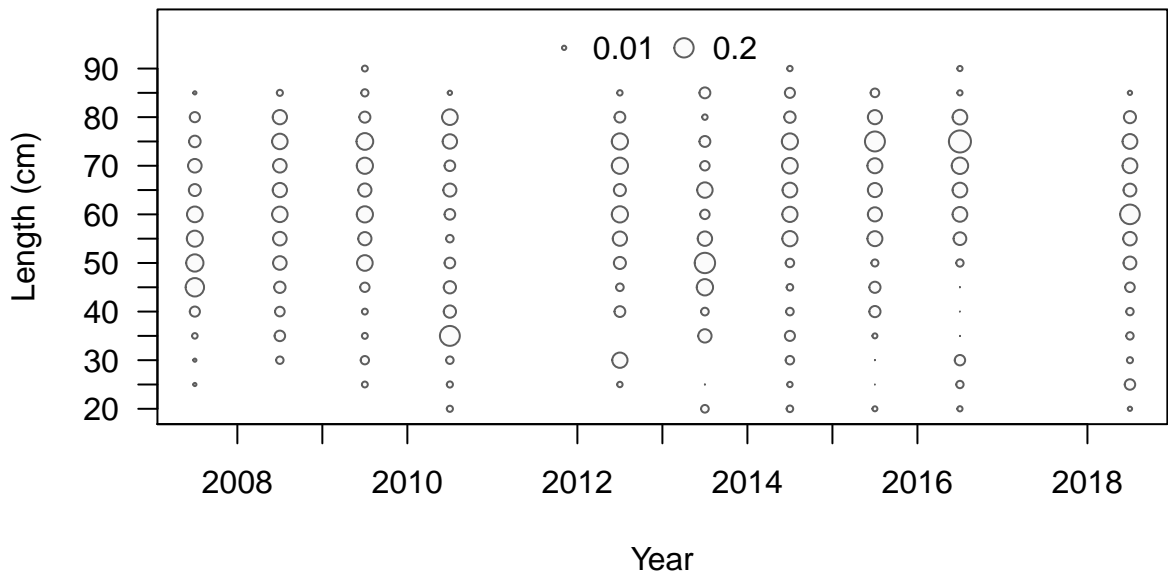
• 0.01 ○ 0.2



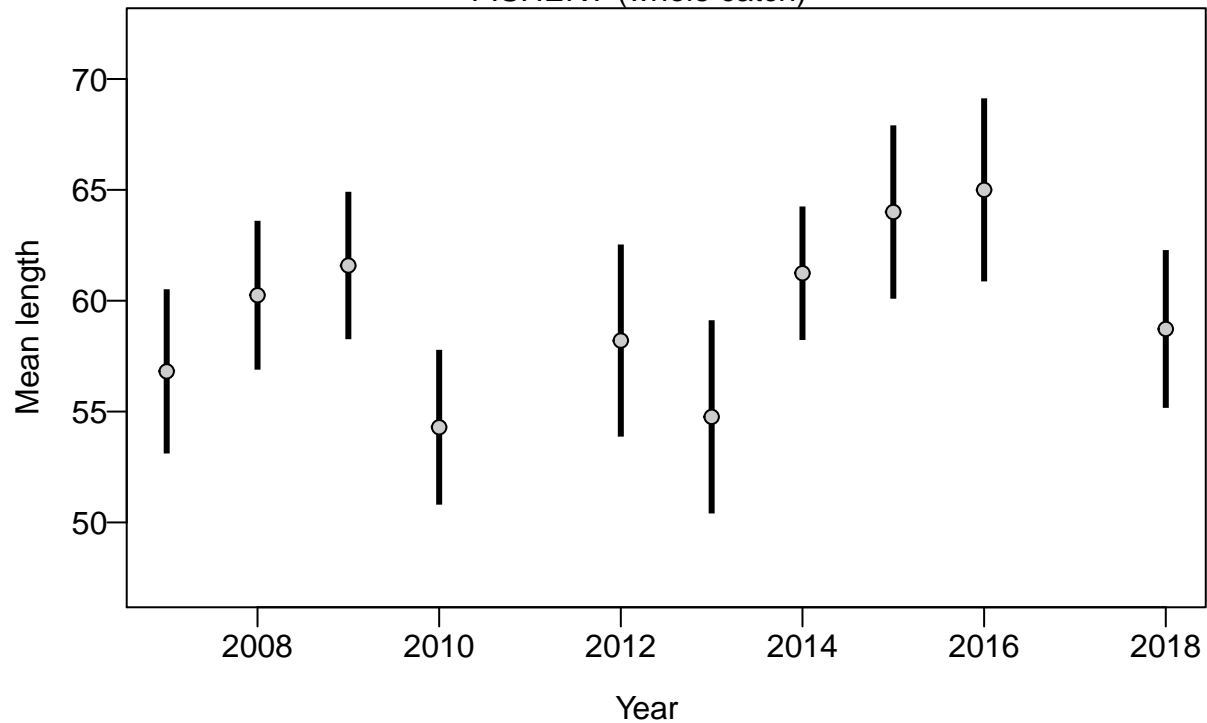
Proportion



Length (cm)

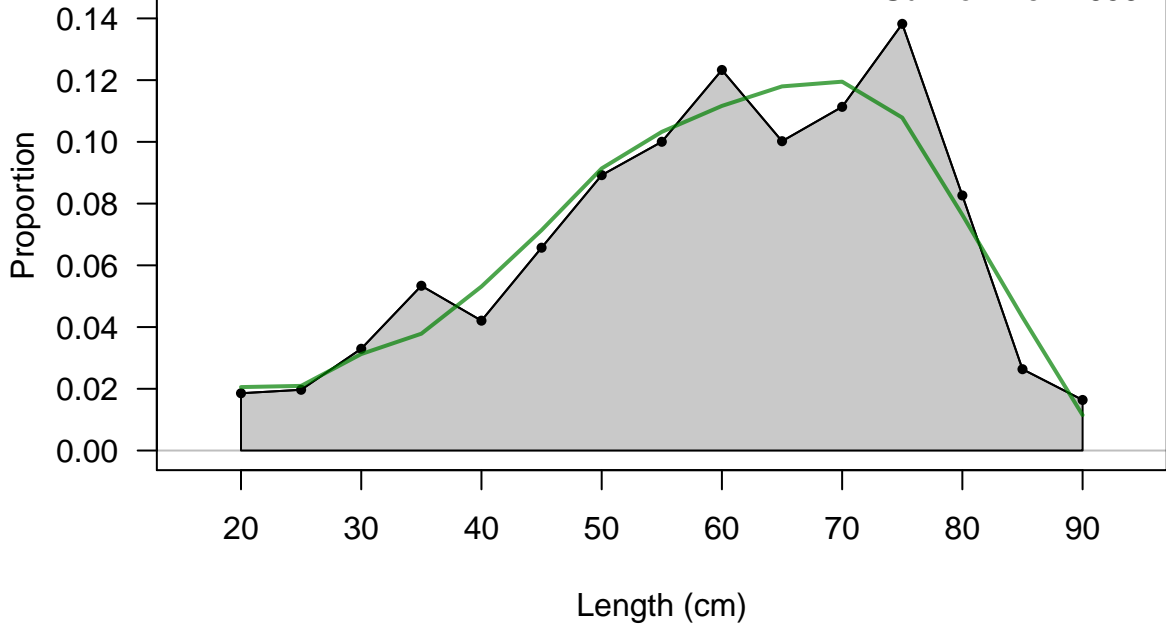


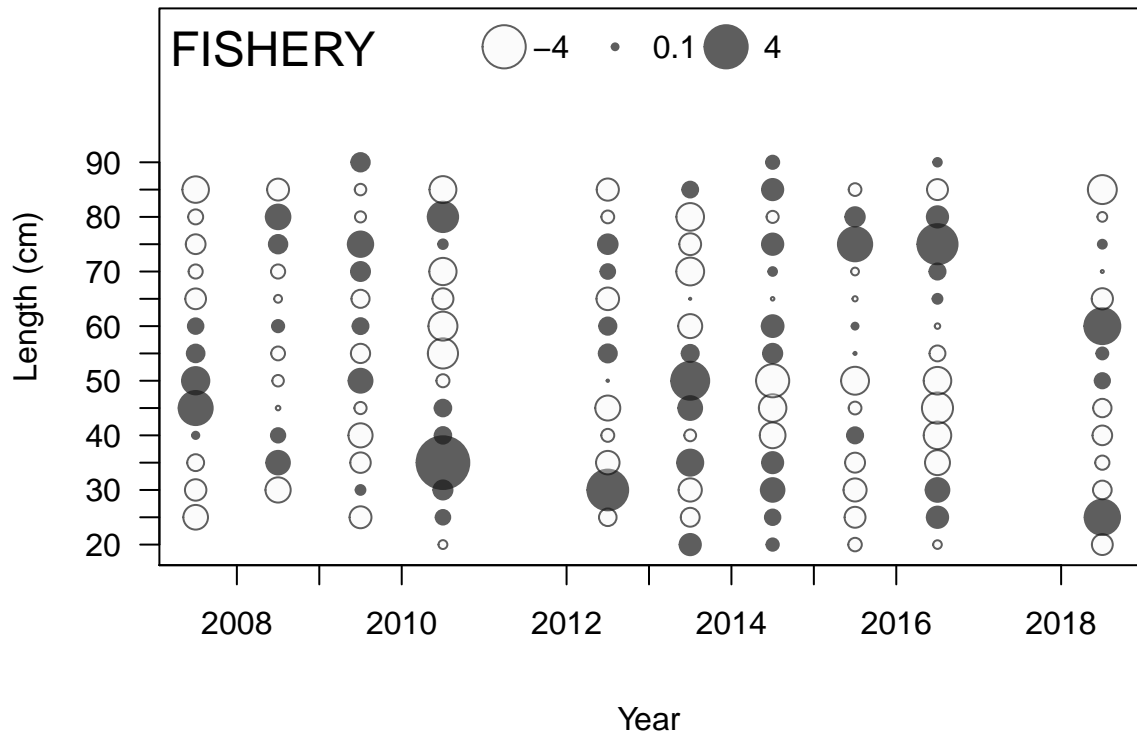
FISHERY (whole catch)



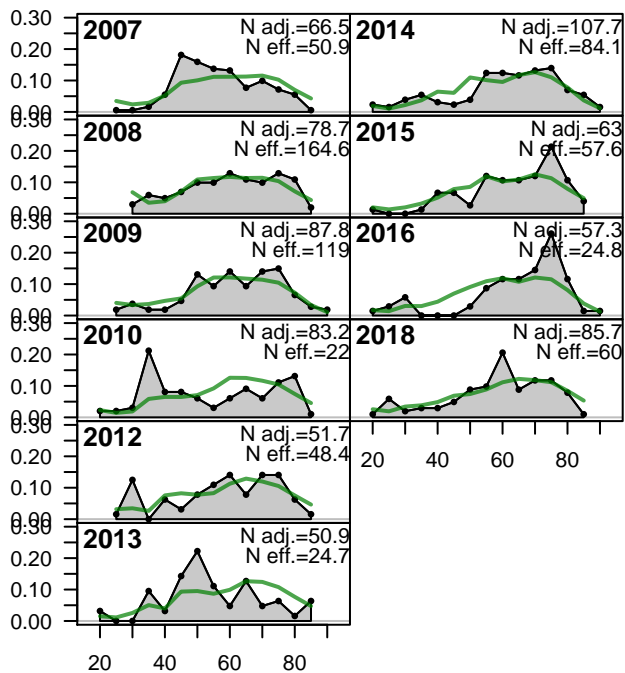
FISHERY

Sum of N adj.=732.5
Sum of N eff.=656.1

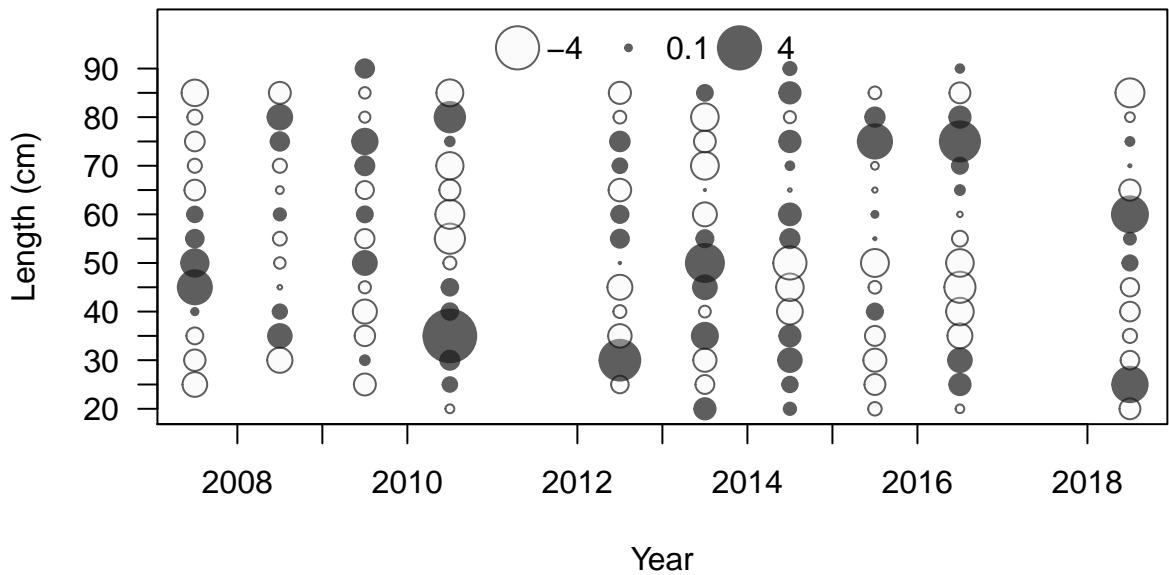




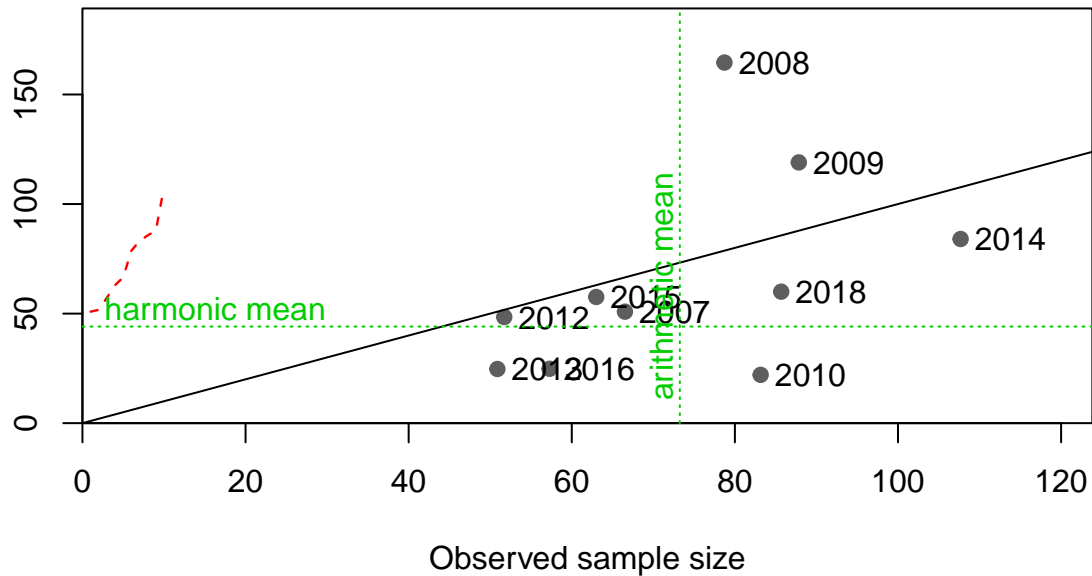
Proportion



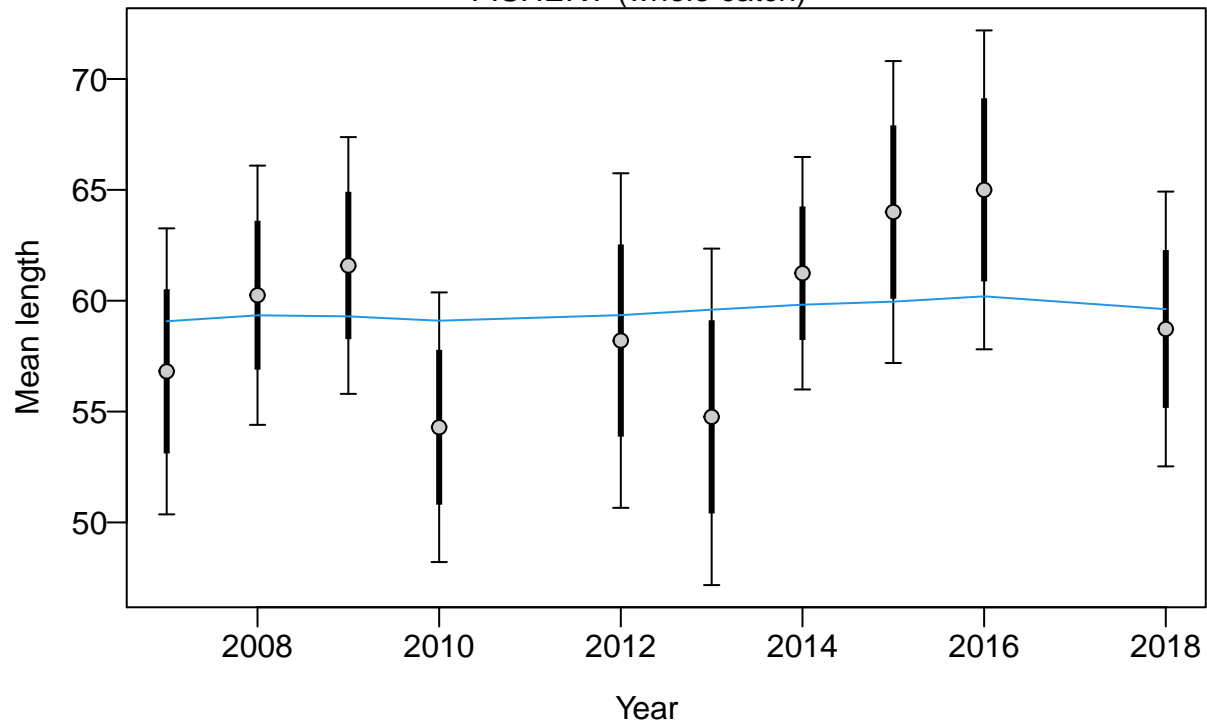
Length (cm)

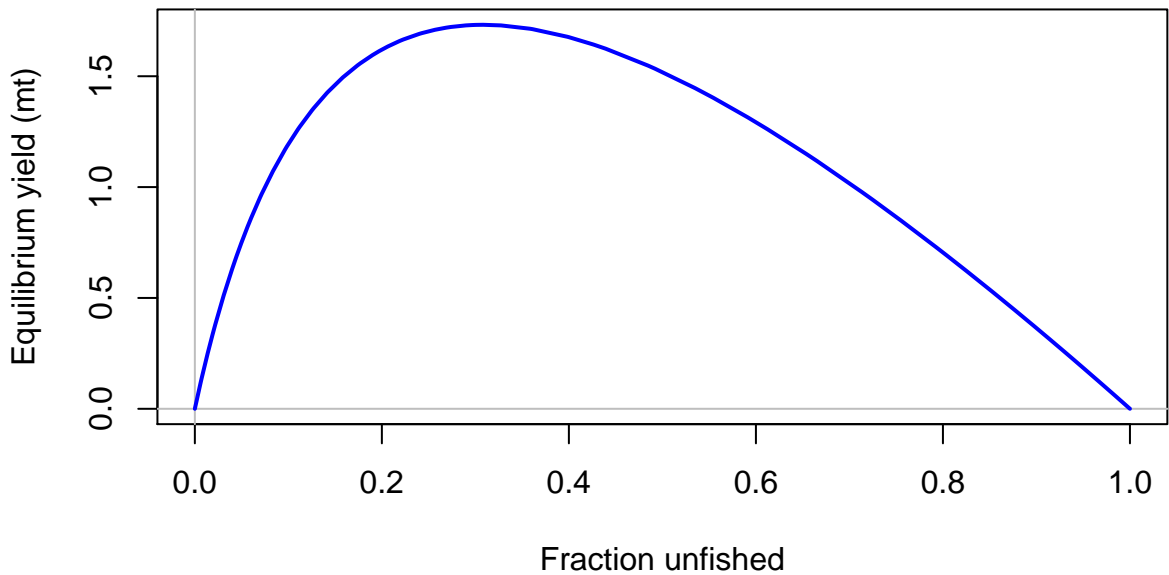


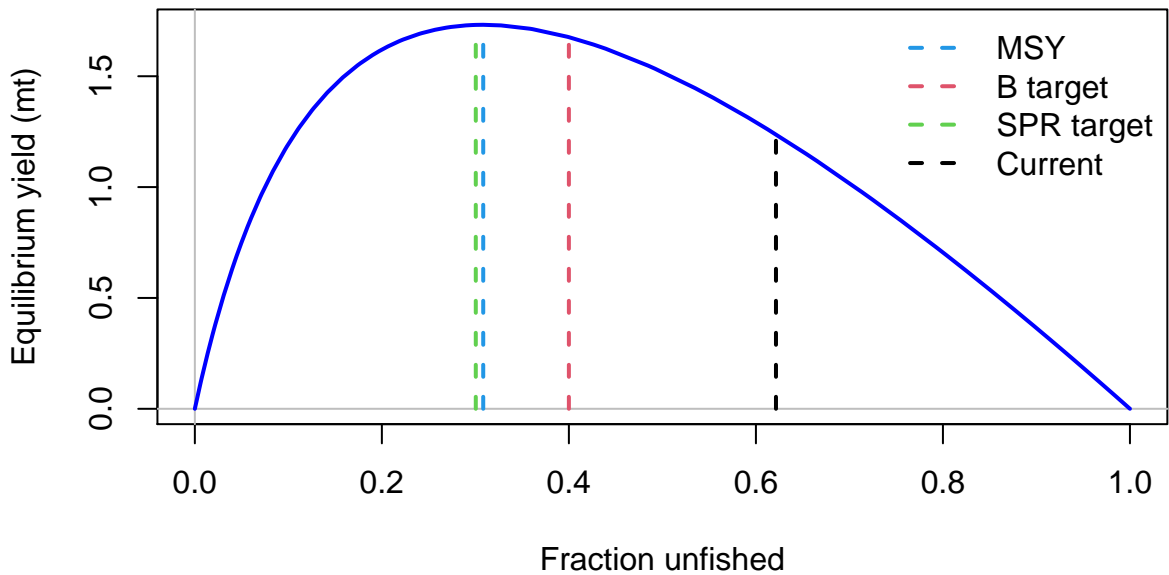
Effective sample size

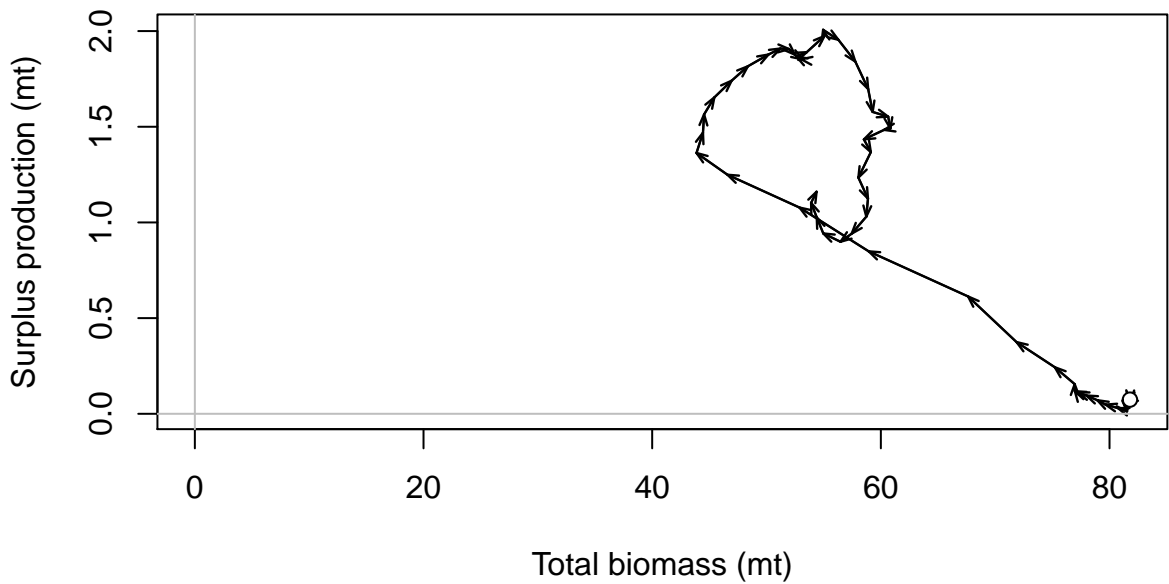


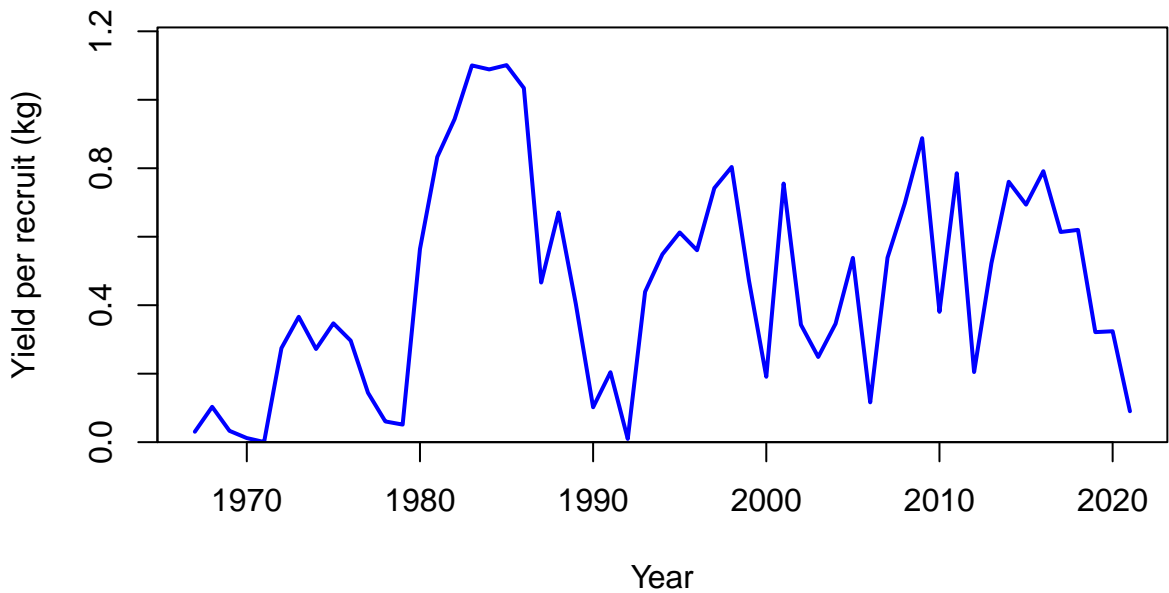
FISHERY (whole catch)

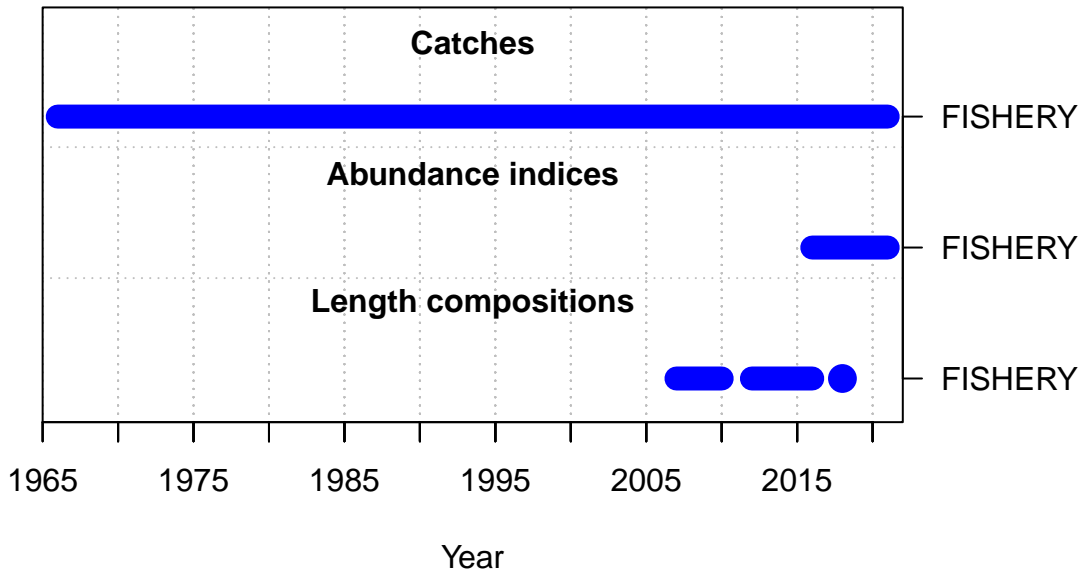


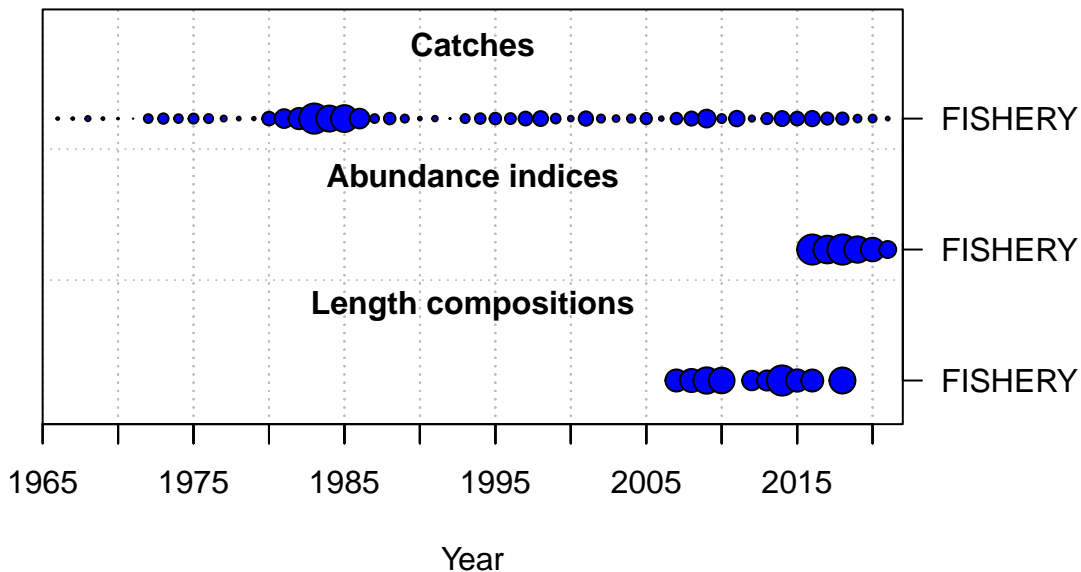




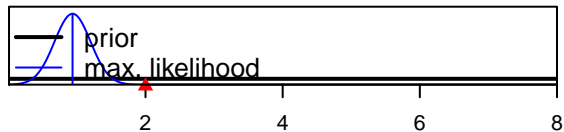




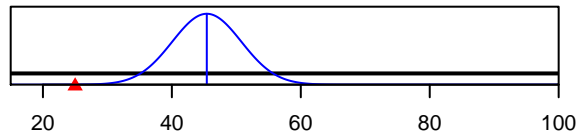




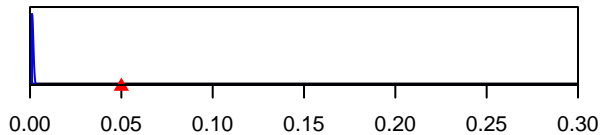
SR_LN(R0)



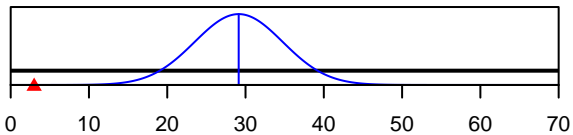
Size_inflection_FISHERY(1)



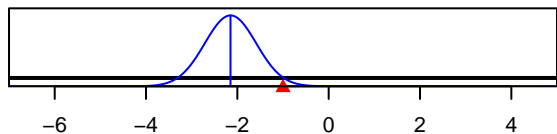
InitF_seas_1_flt_1FISHERY



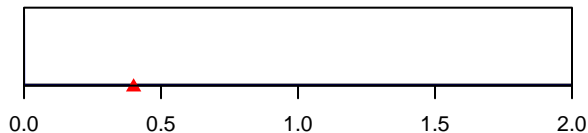
Size_95%width_FISHERY(1)



LnQ_base_FISHERY(1)



Q_extraSD_FISHERY(1)



Parameter value