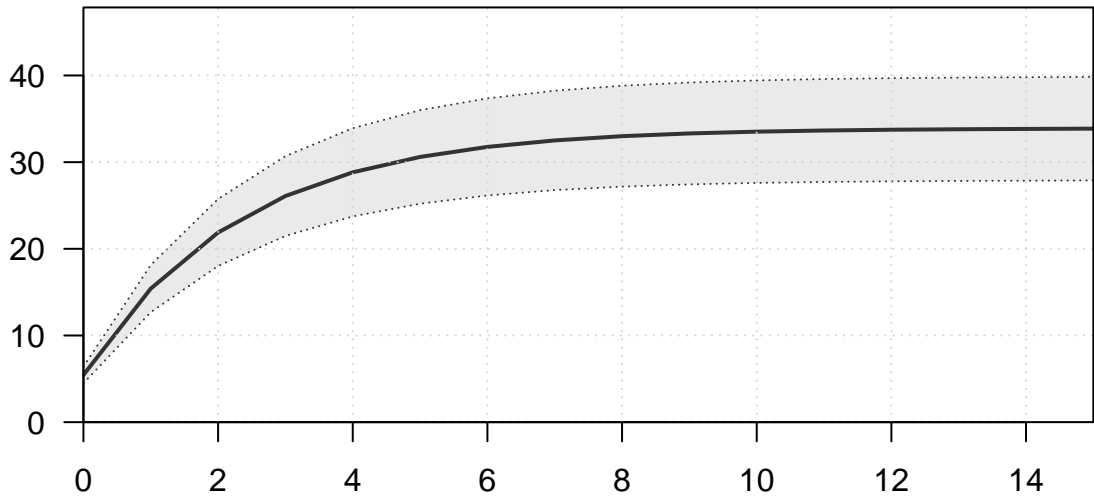
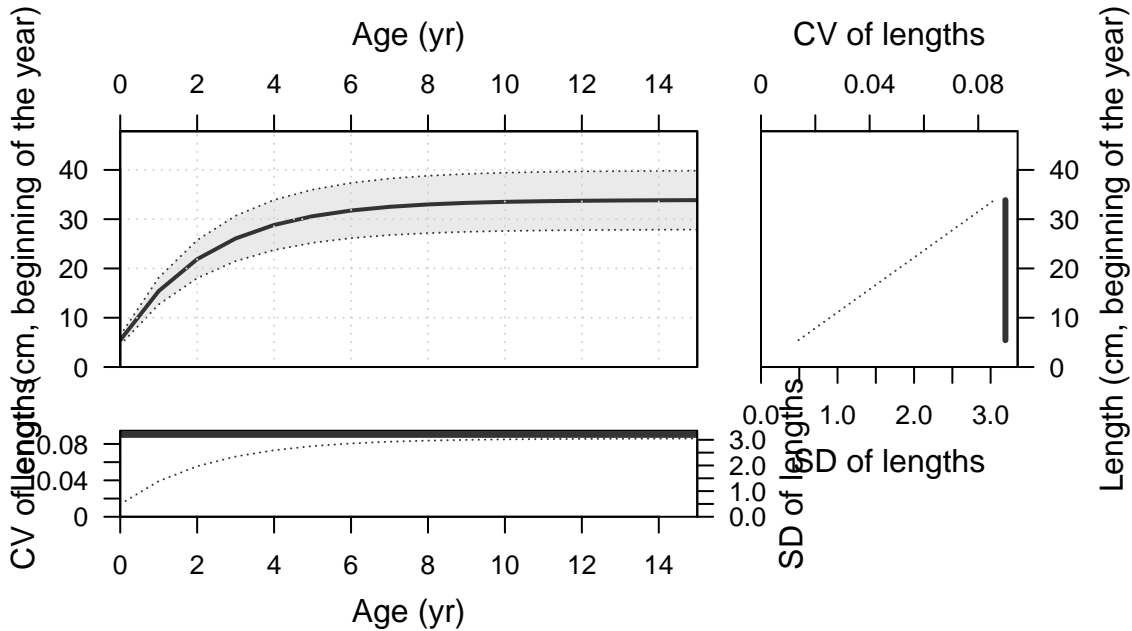


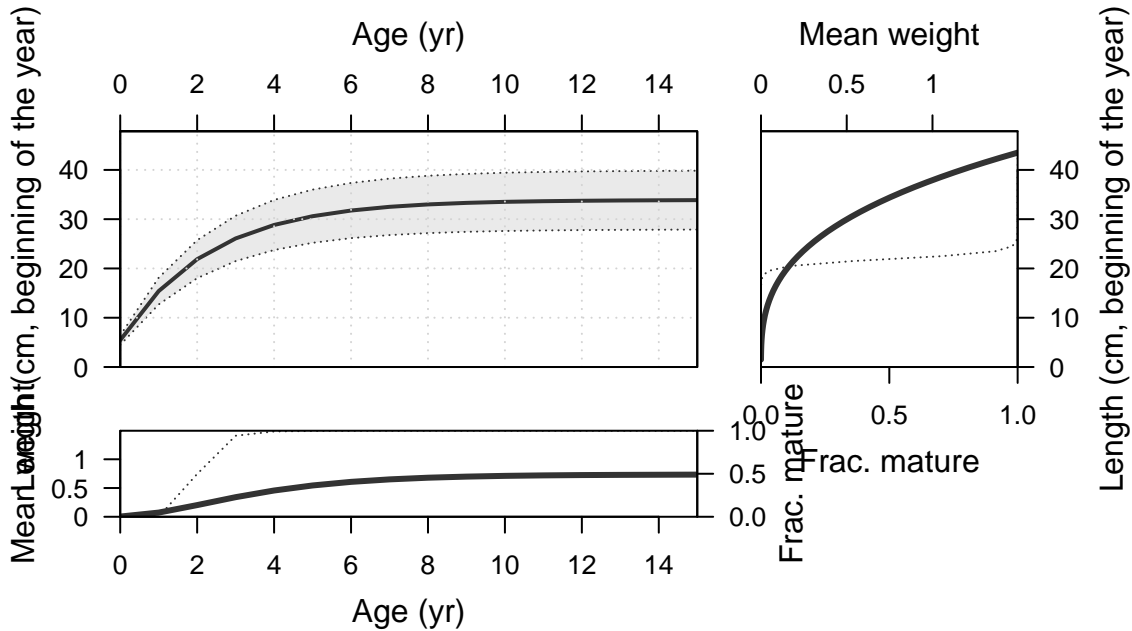
Plots created using the 'r4ss' package in R
Stock Synthesis version: 3.30.19.0
StartTime: Wed Aug 03 10:55:44 2022
Data_File: data.ss
Control_File: control.ss

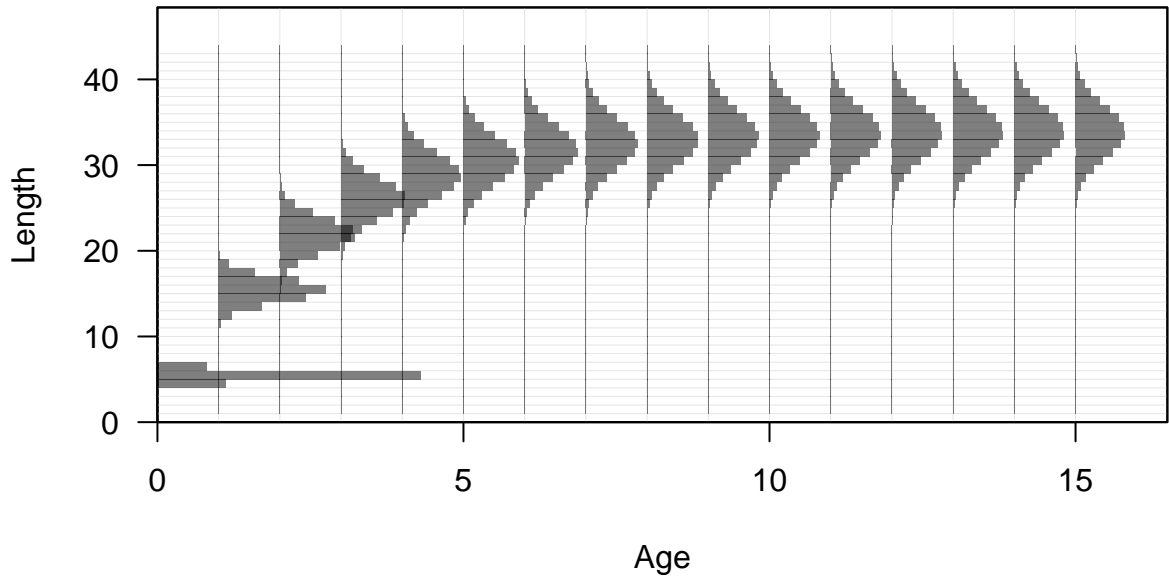
Length (cm, beginning of the year)

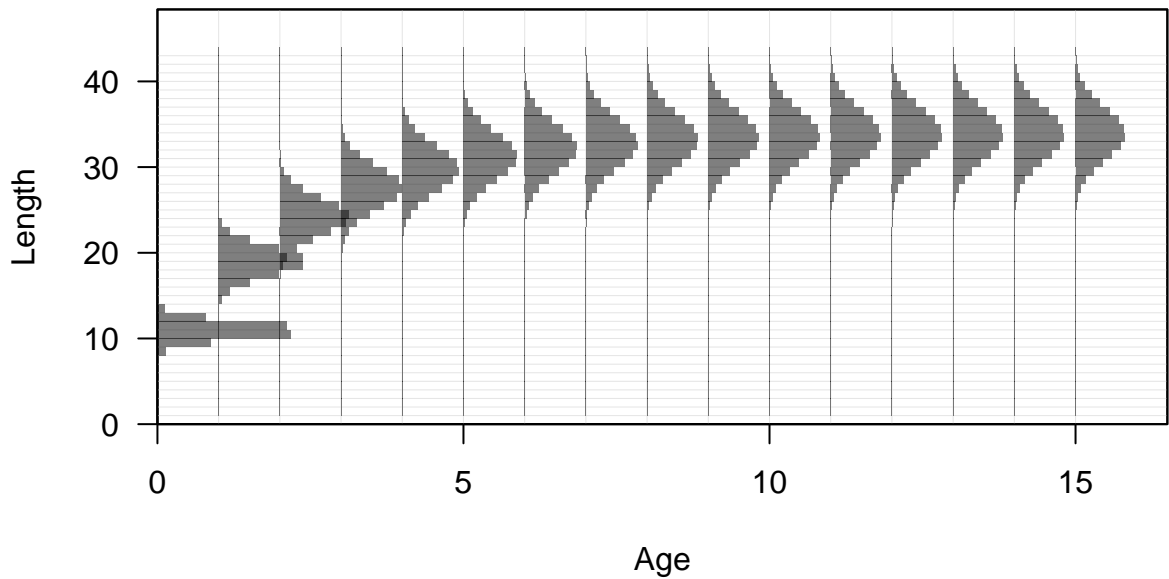


Age (yr)



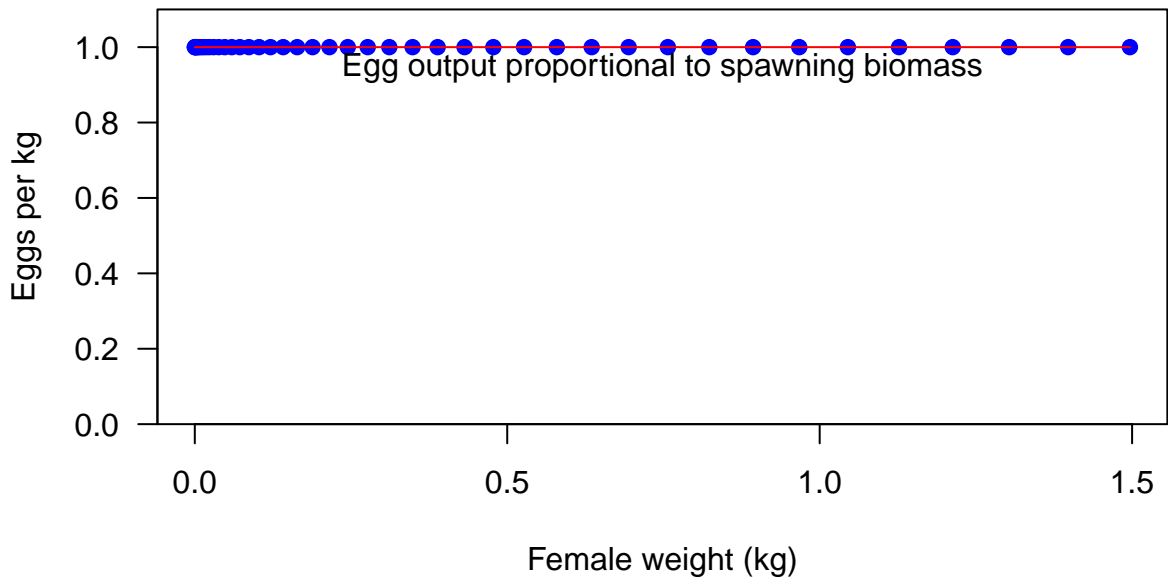








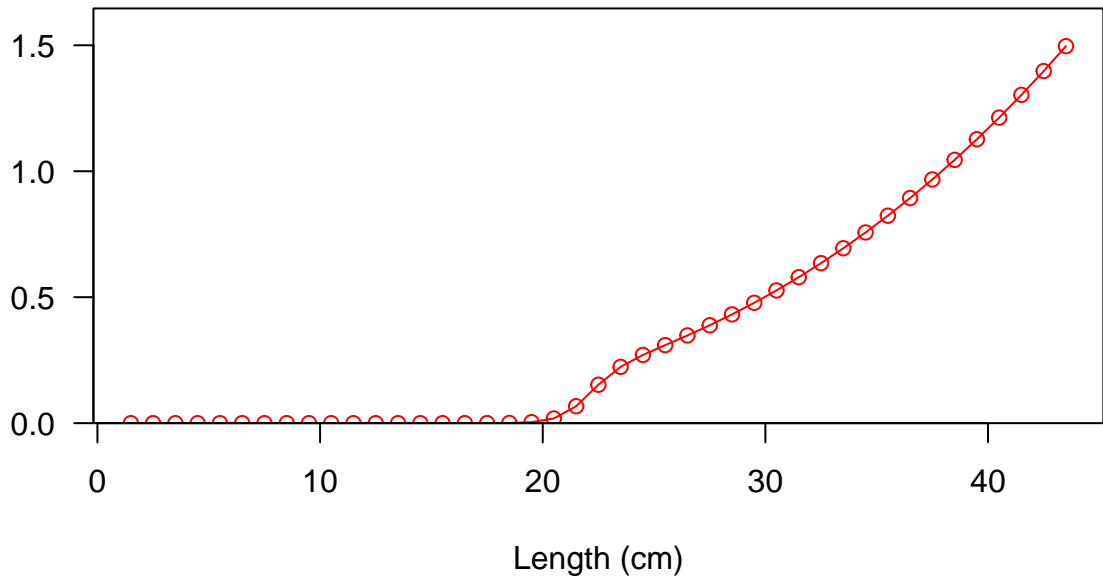


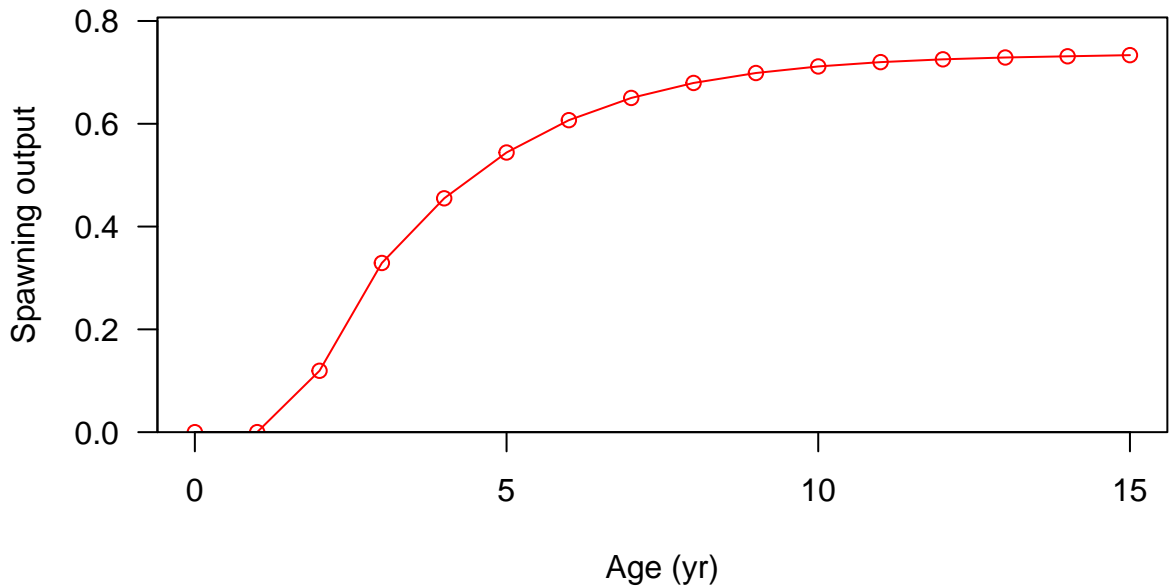






Spawning output

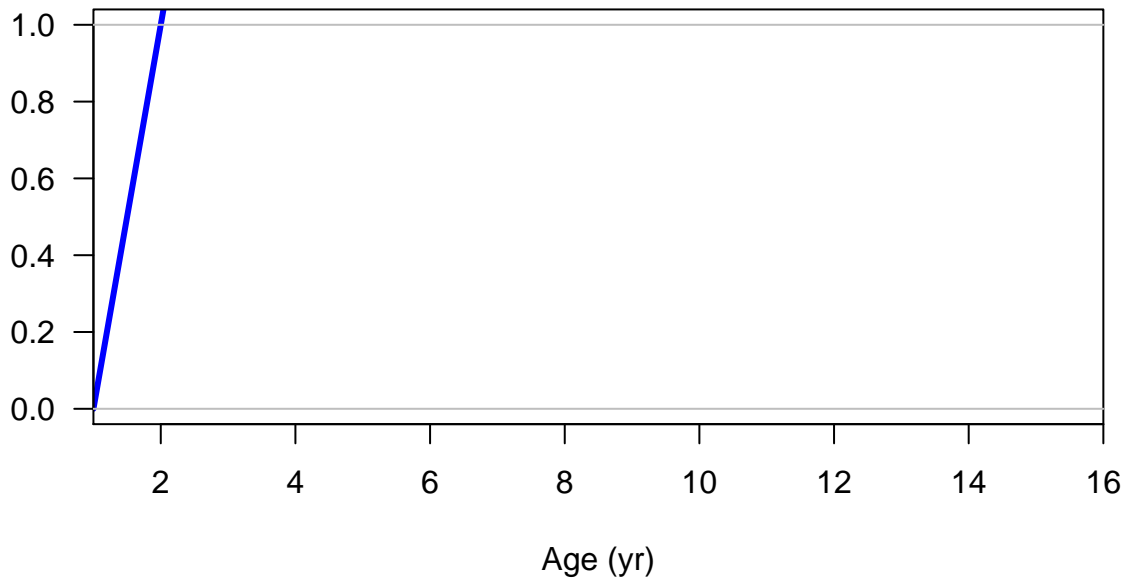




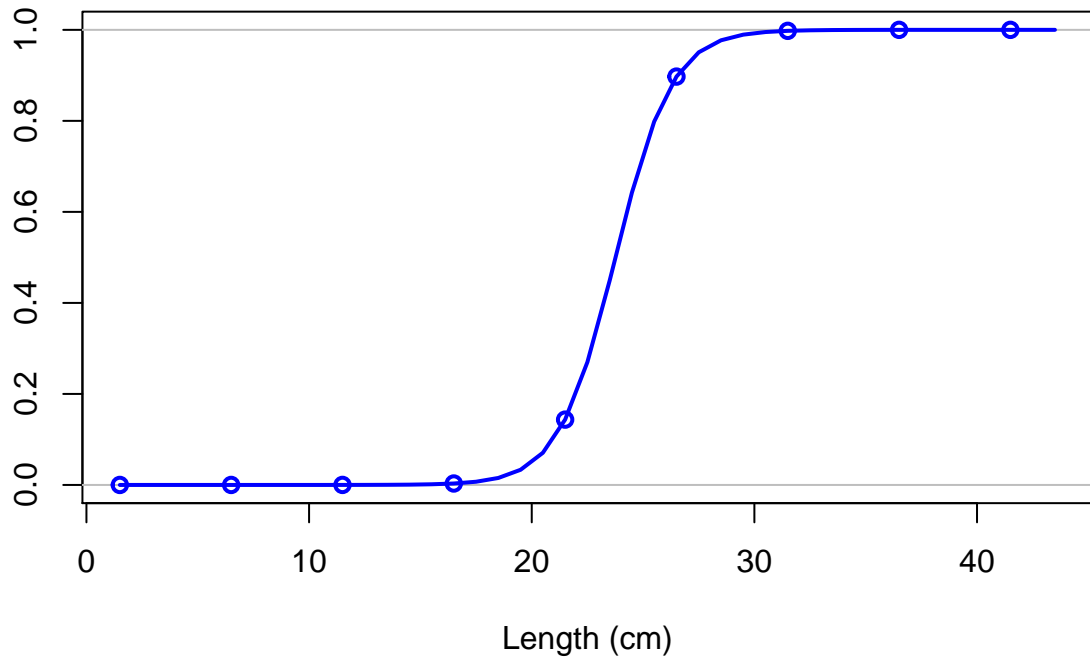
Hermaphroditism transition rate



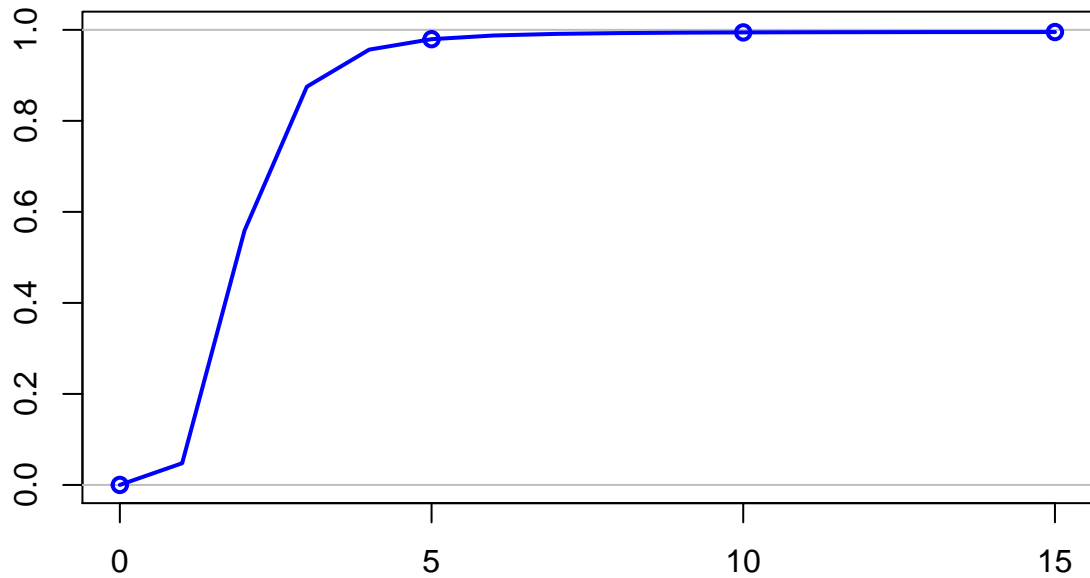
Fraction females by age at equilibrium



Selectivity

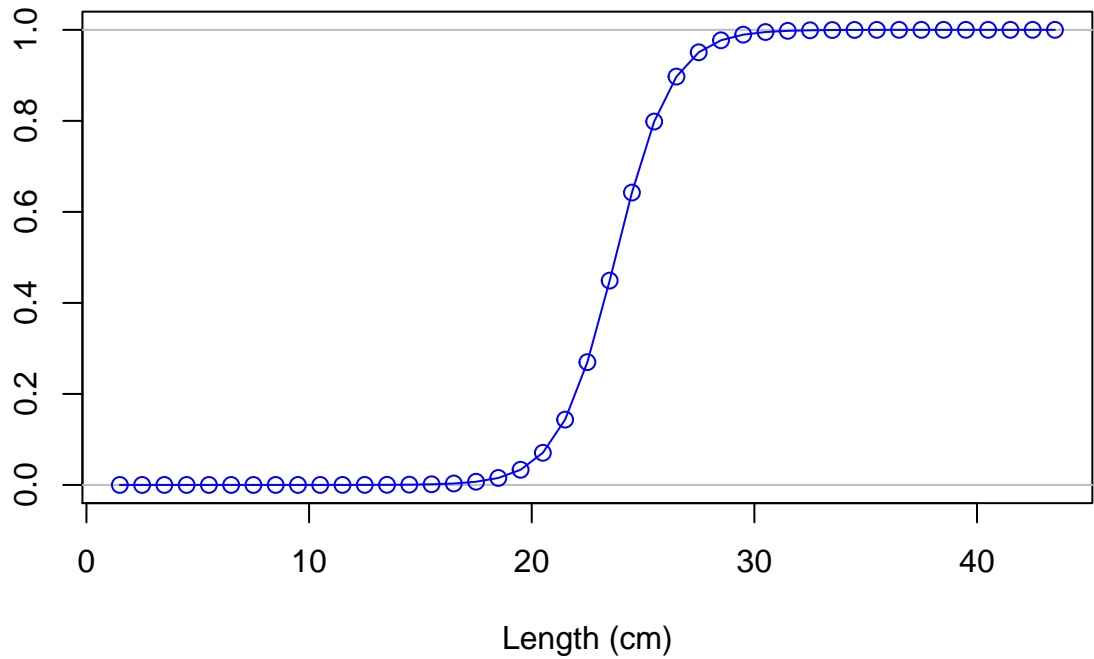


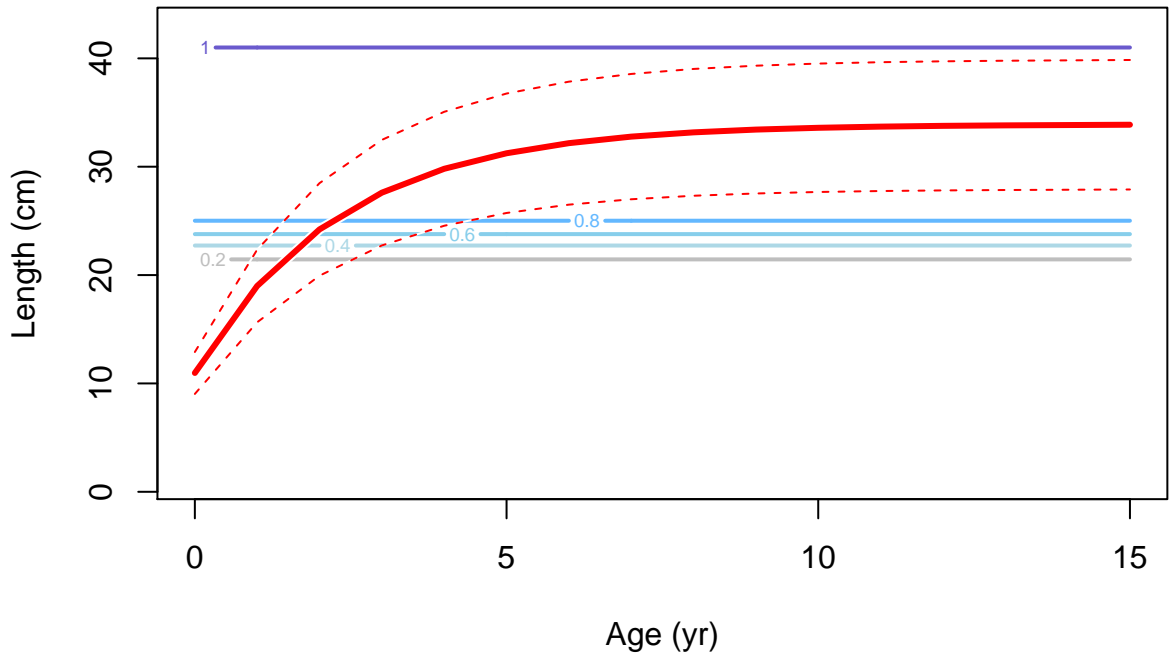
Selectivity

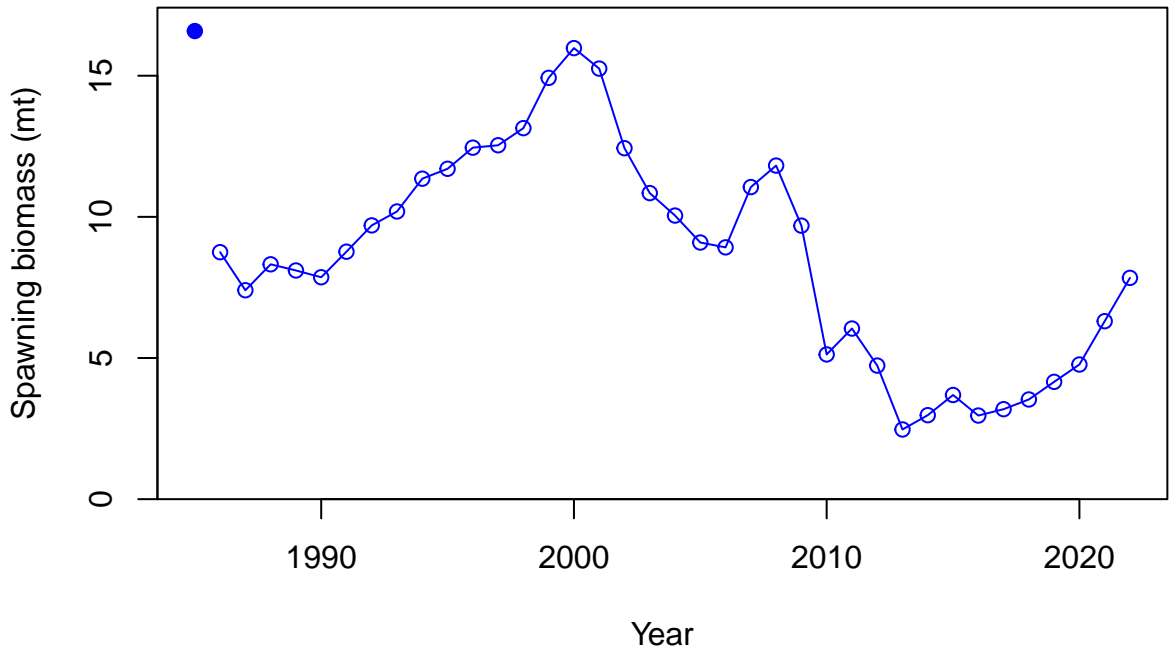


Age (yr)

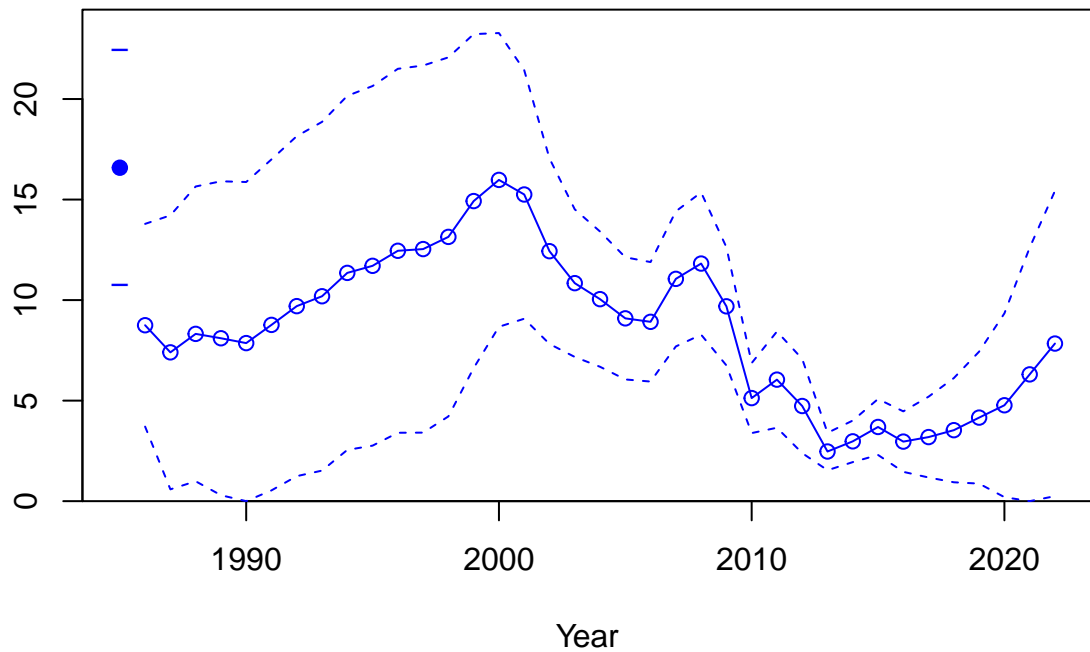
Selectivity



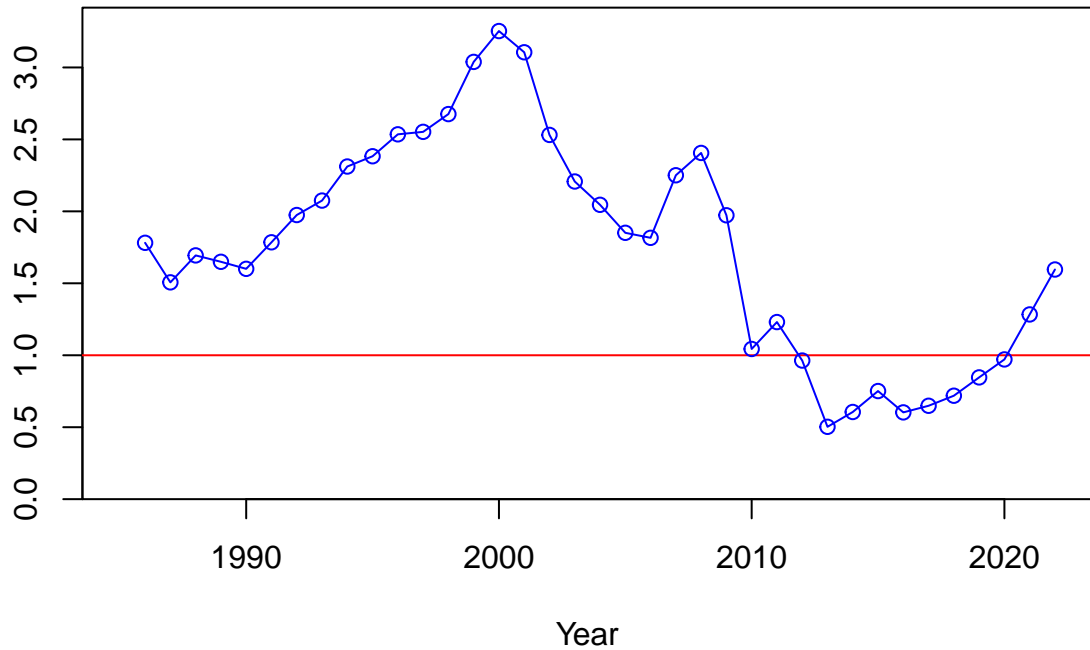




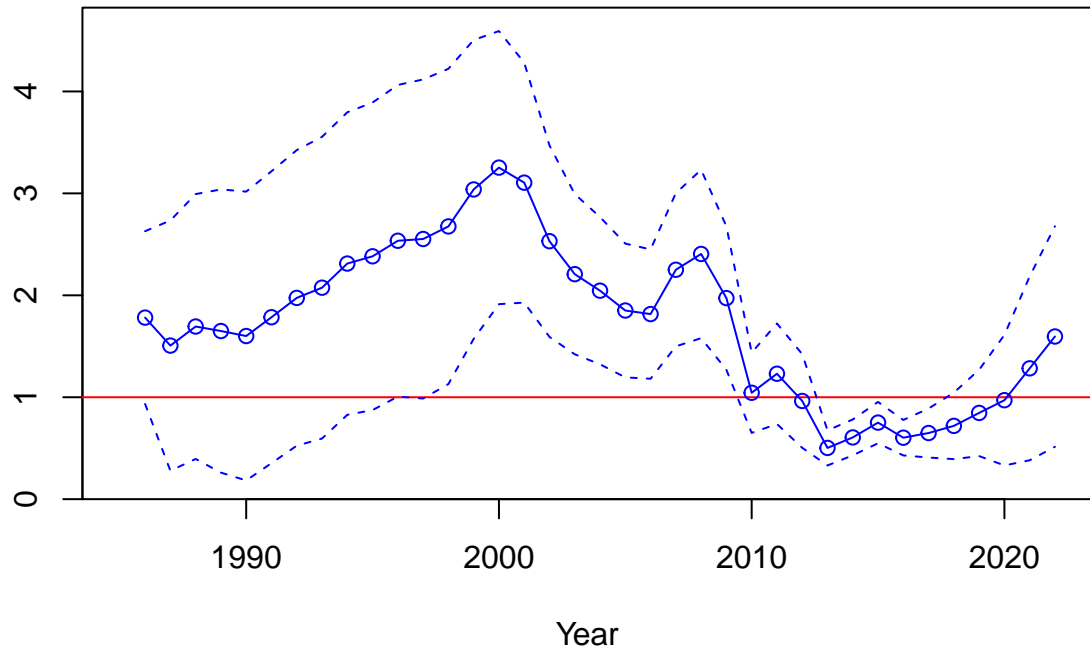
Spawning biomass (mt)

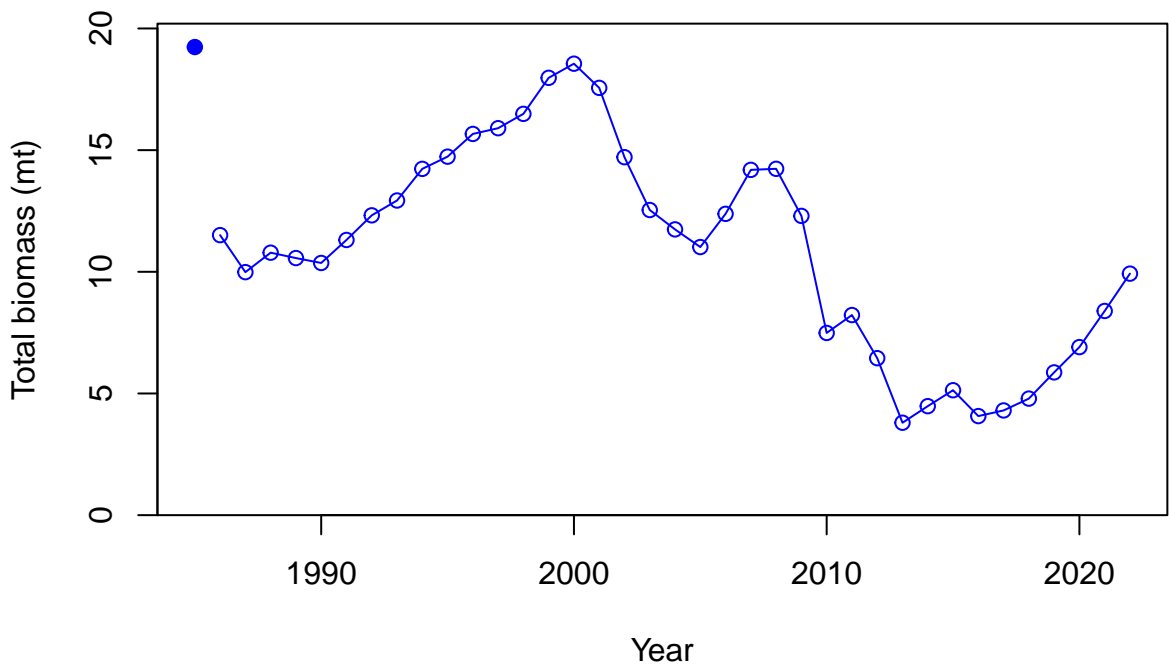


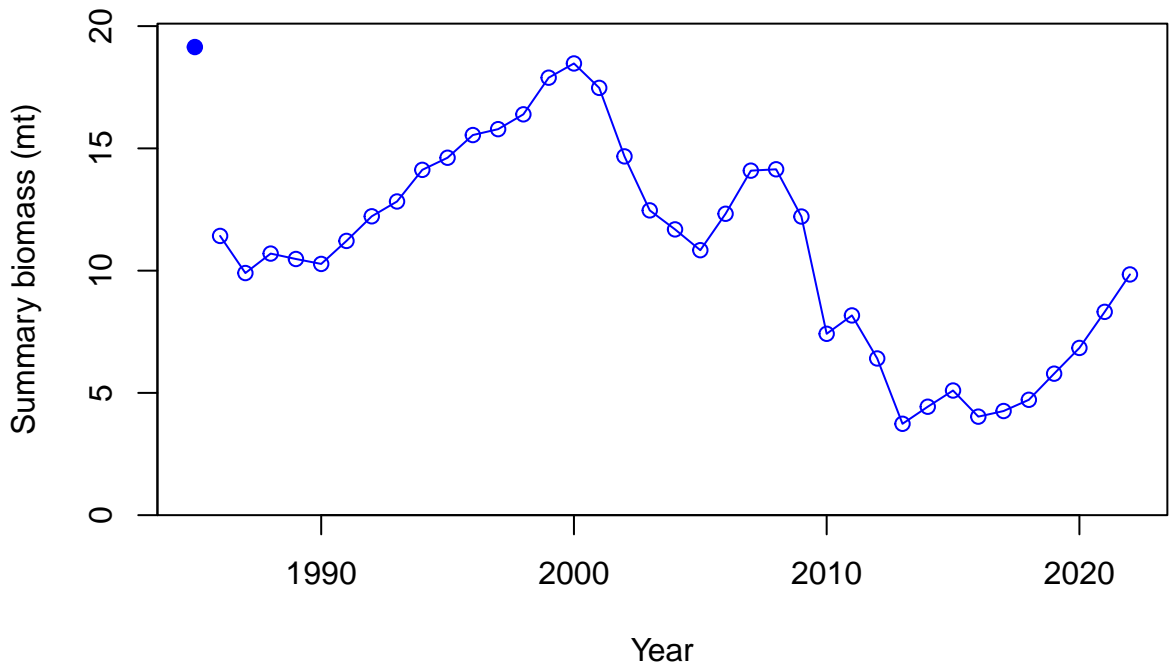
Relative spawning biomass: B/B_{MSY}



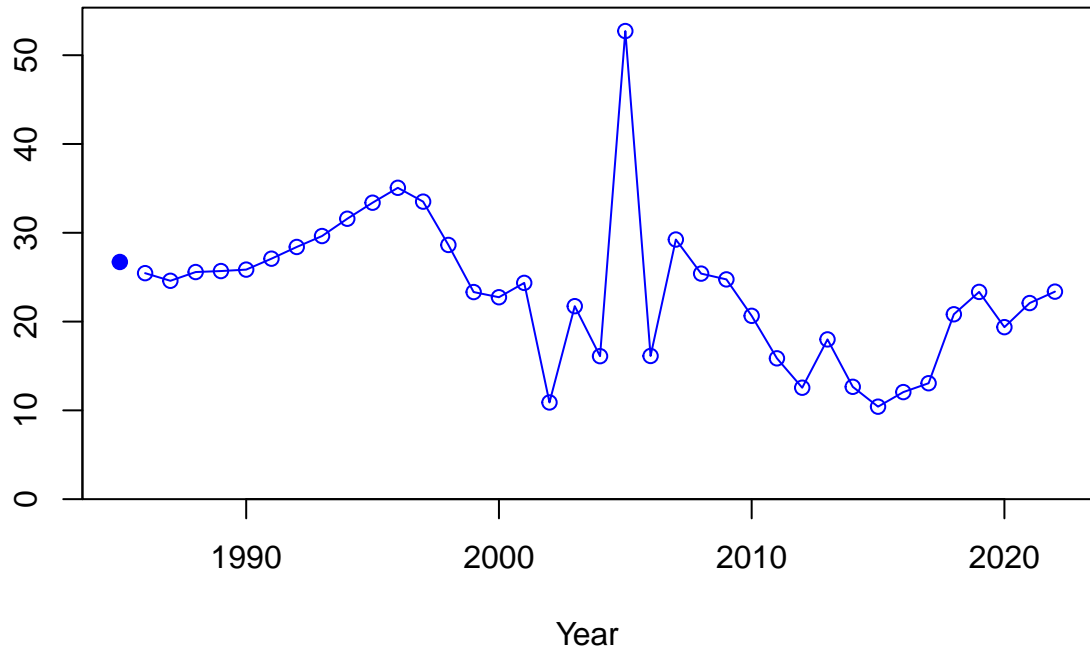
Relative spawning biomass: B/B_{MSY}



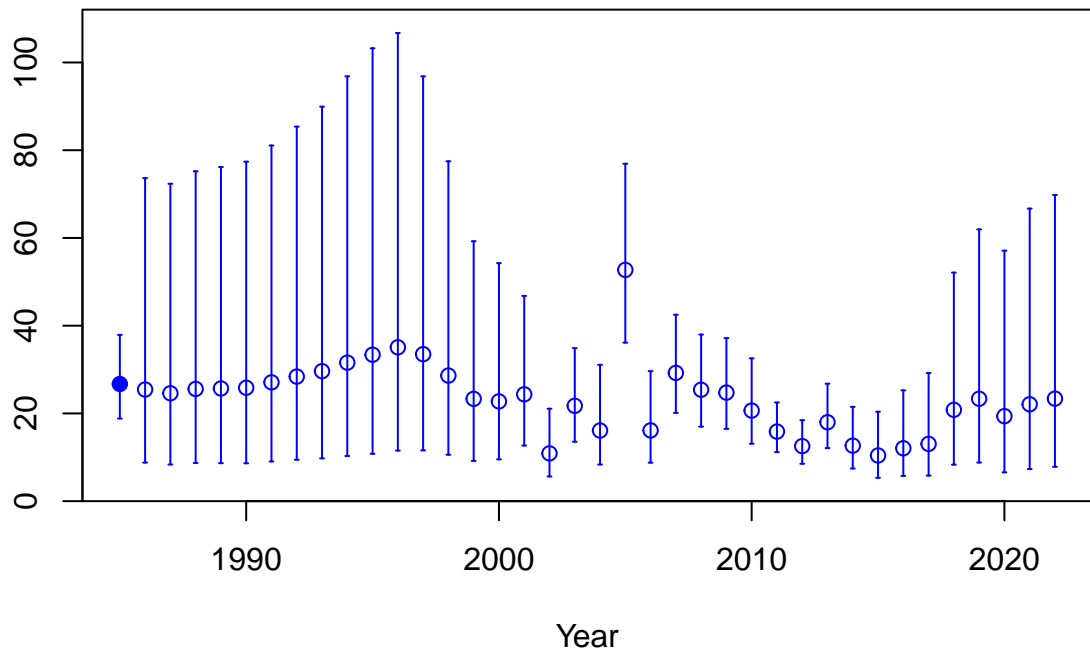




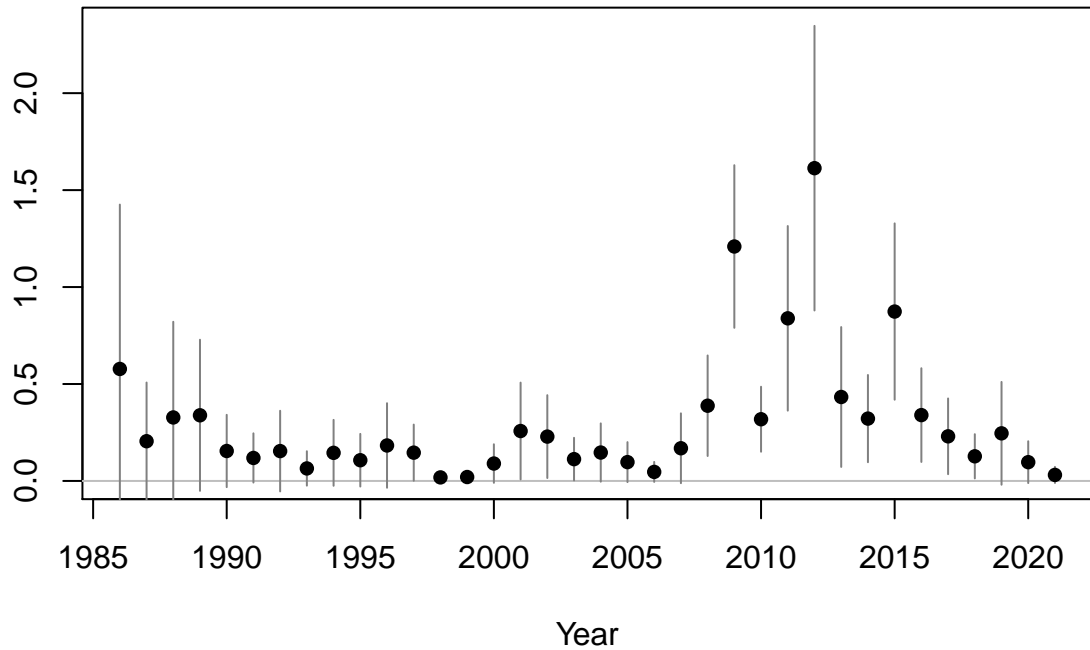
Age-0 recruits (1,000s)

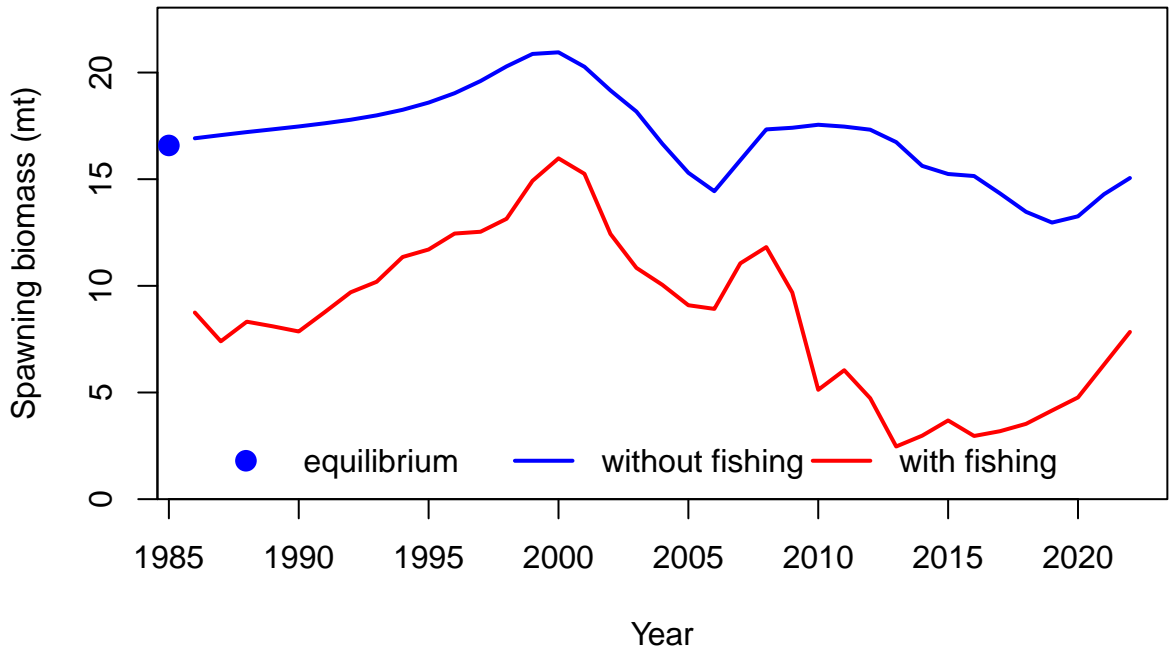


Age-0 recruits (1,000s)



Summary Fishing Mortality





Log recruitment deviation

0.5
0.0
-0.5

1970

1980

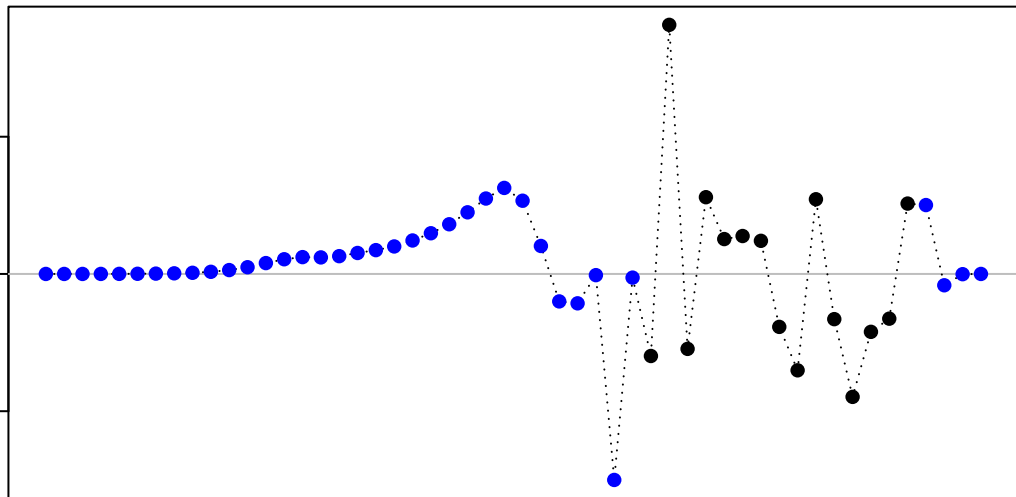
1990

2000

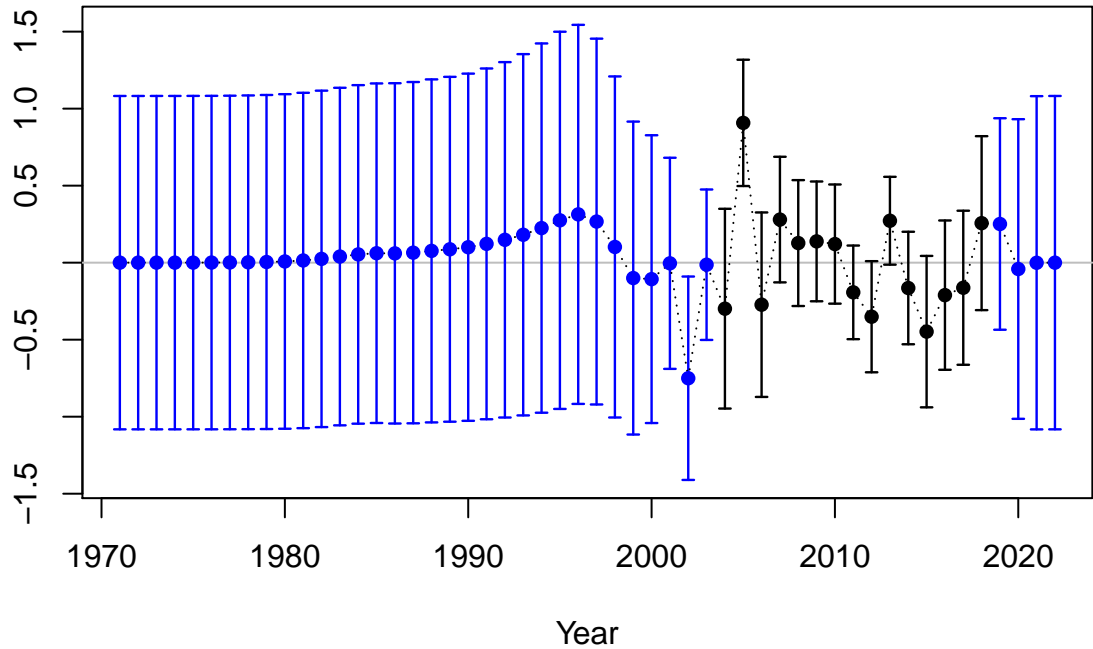
2010

2020

Year

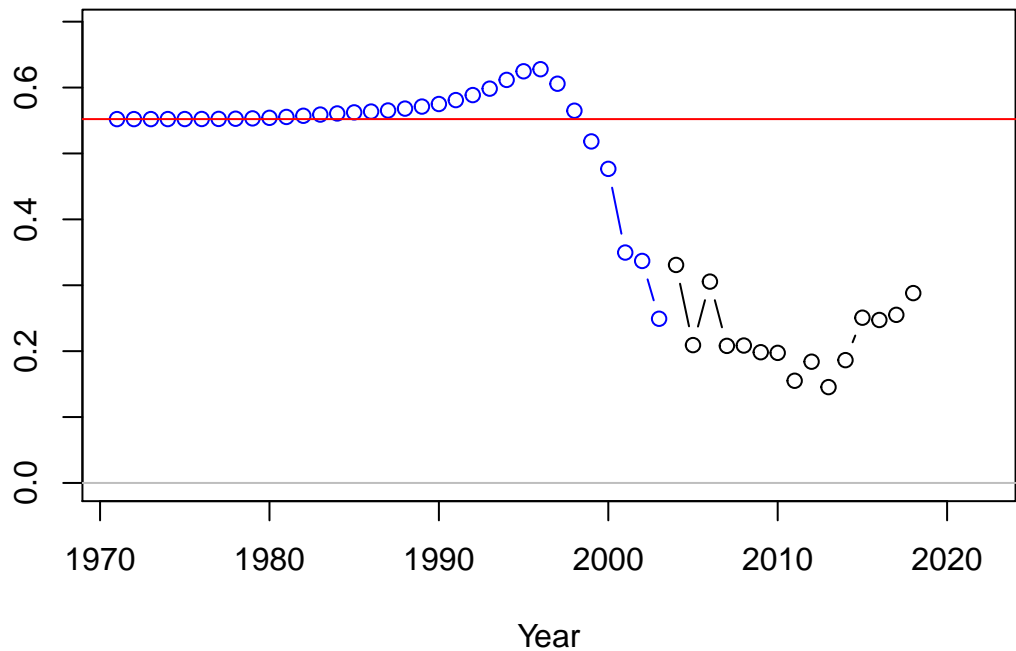


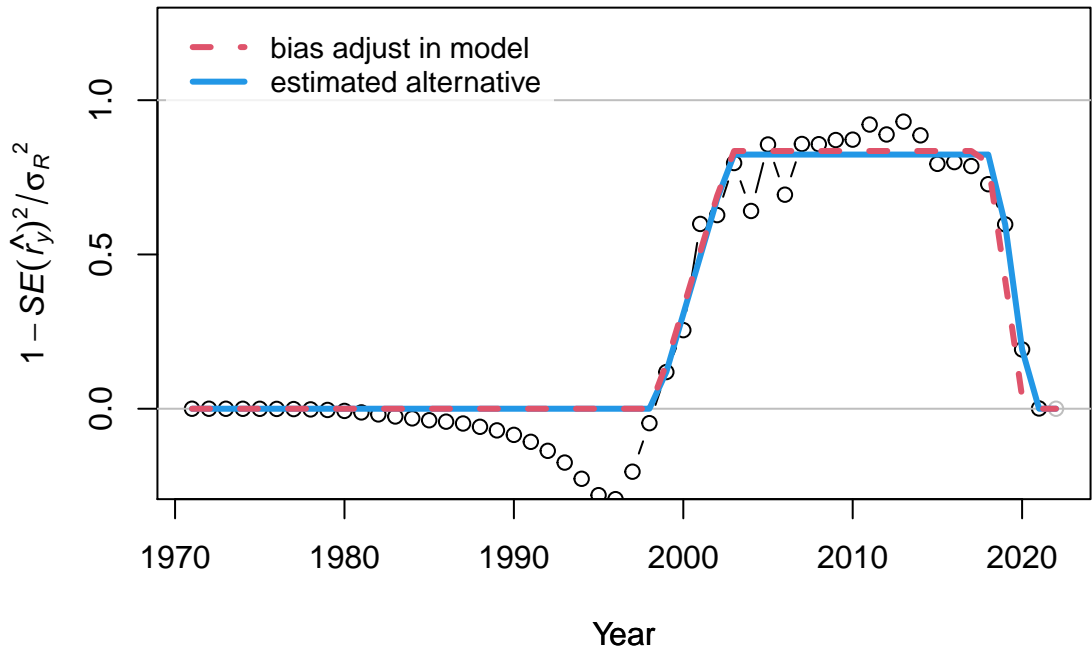
Log recruitment deviation

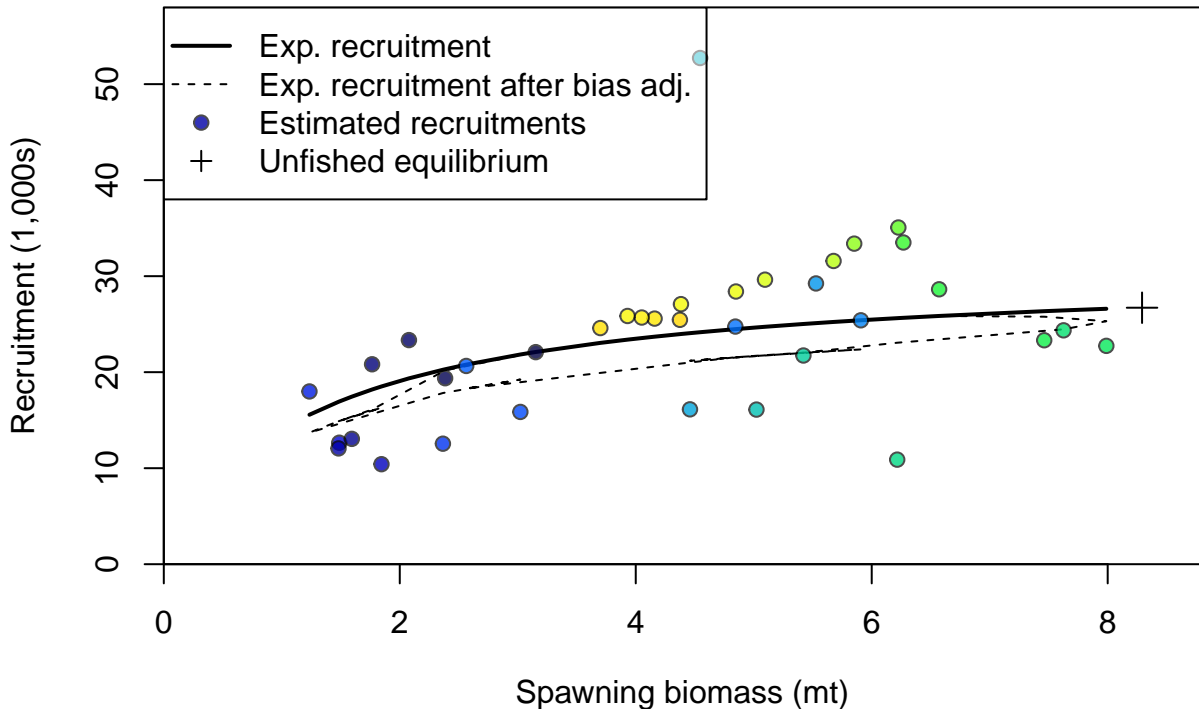


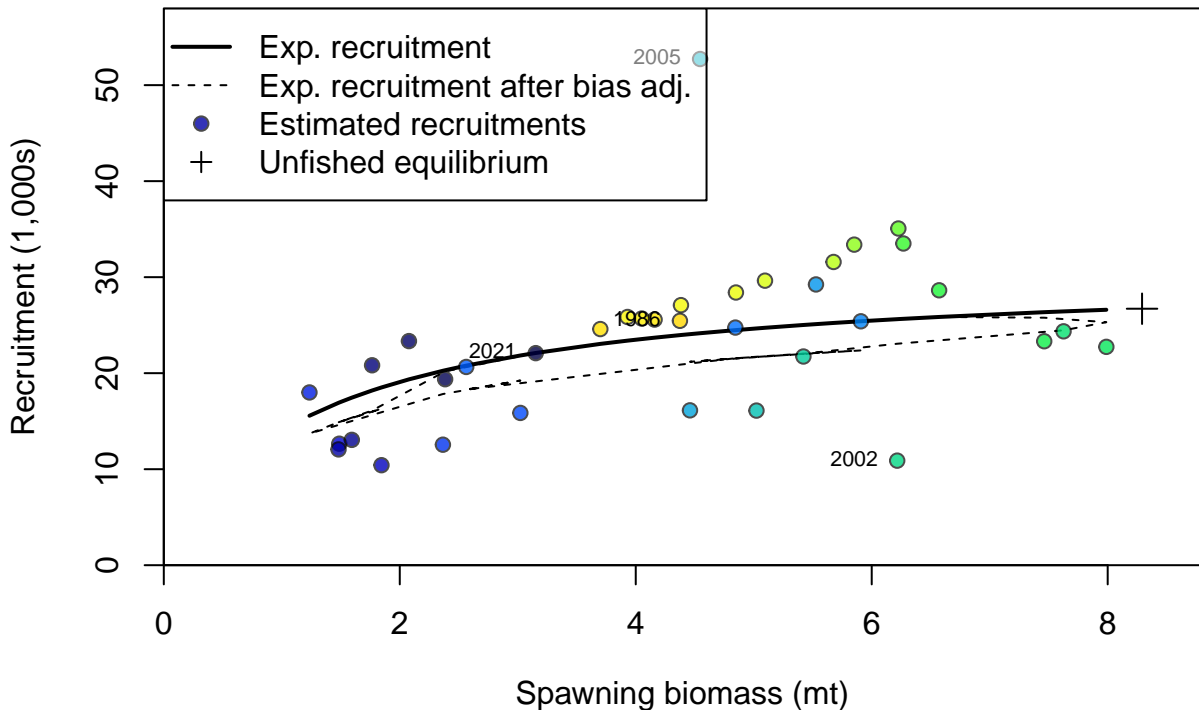
Recruitment deviation variance

Asymptotic standard error estimate

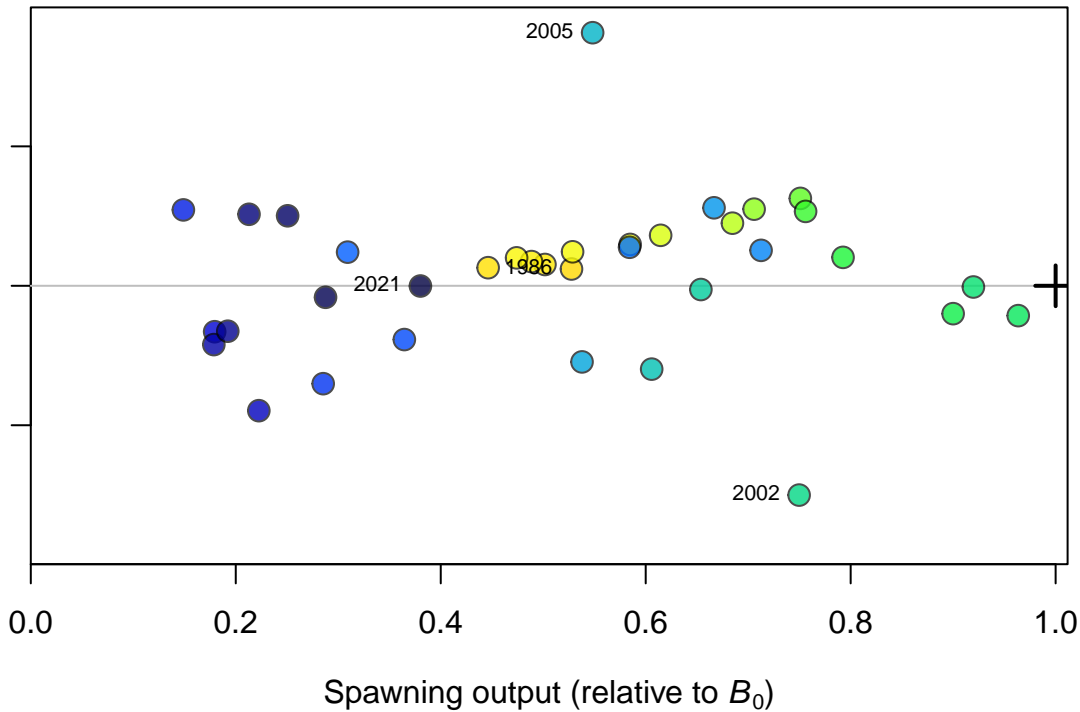


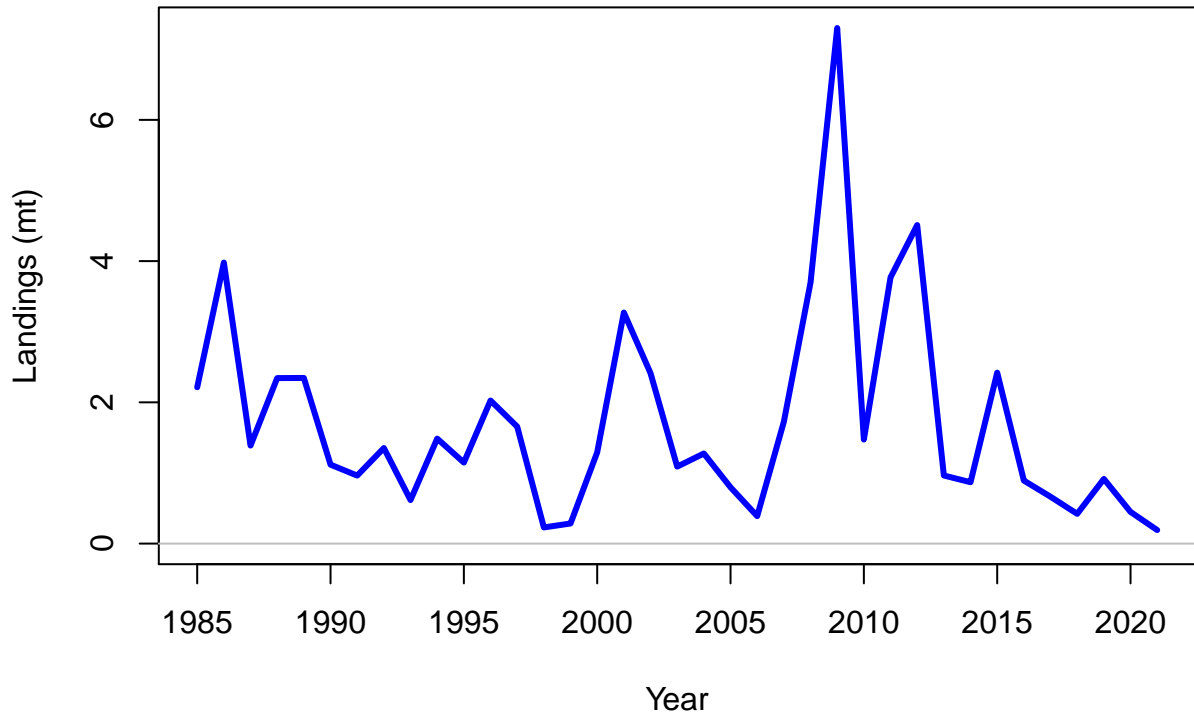


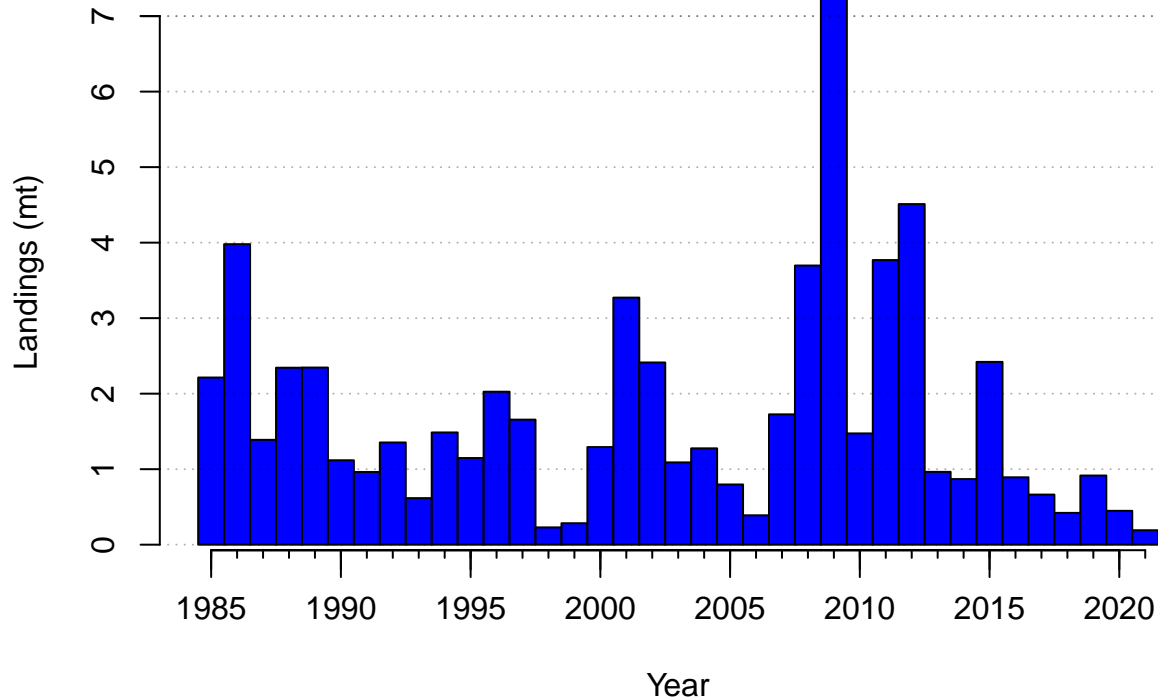




Log recruitment deviation







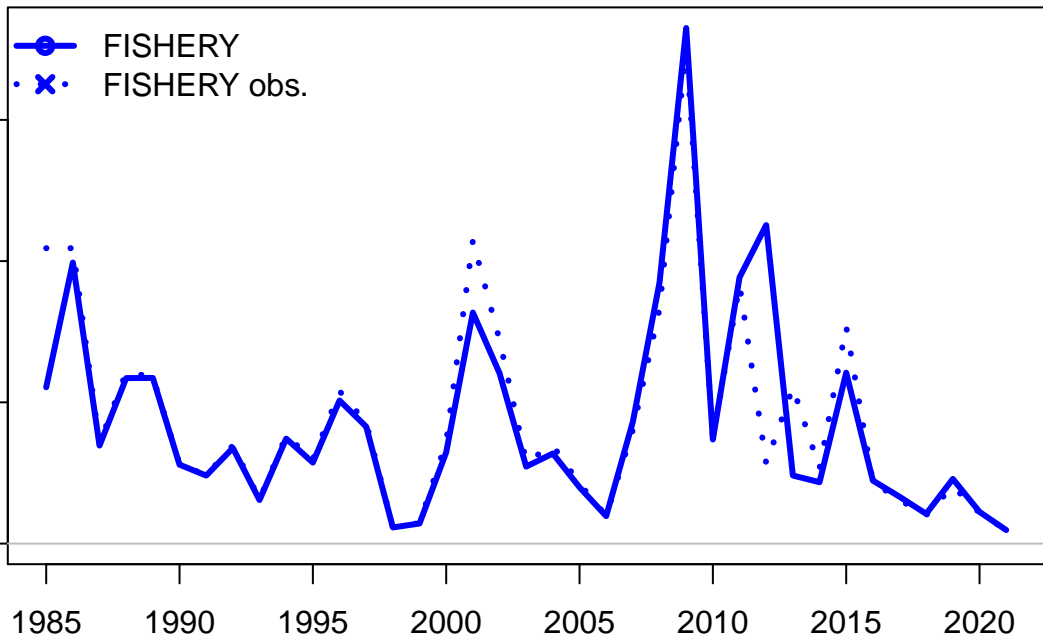
Observed and expected Landings (mt)

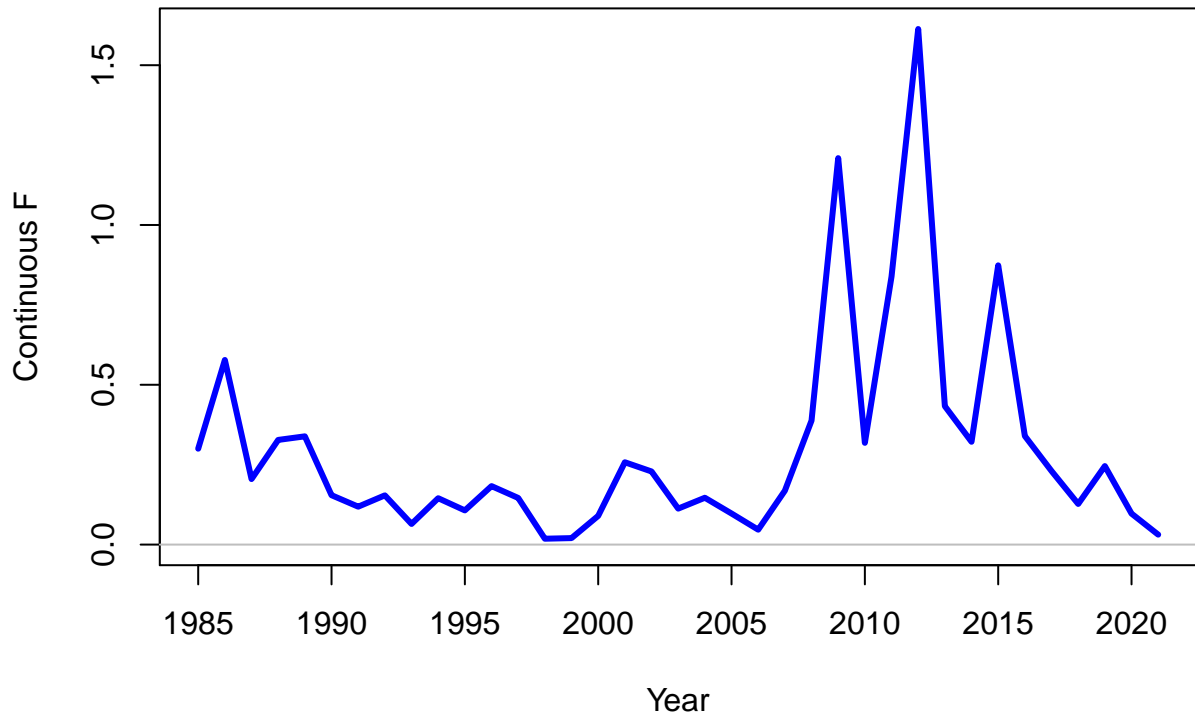
FISHERY
FISHERY obs.

6
4
2
0

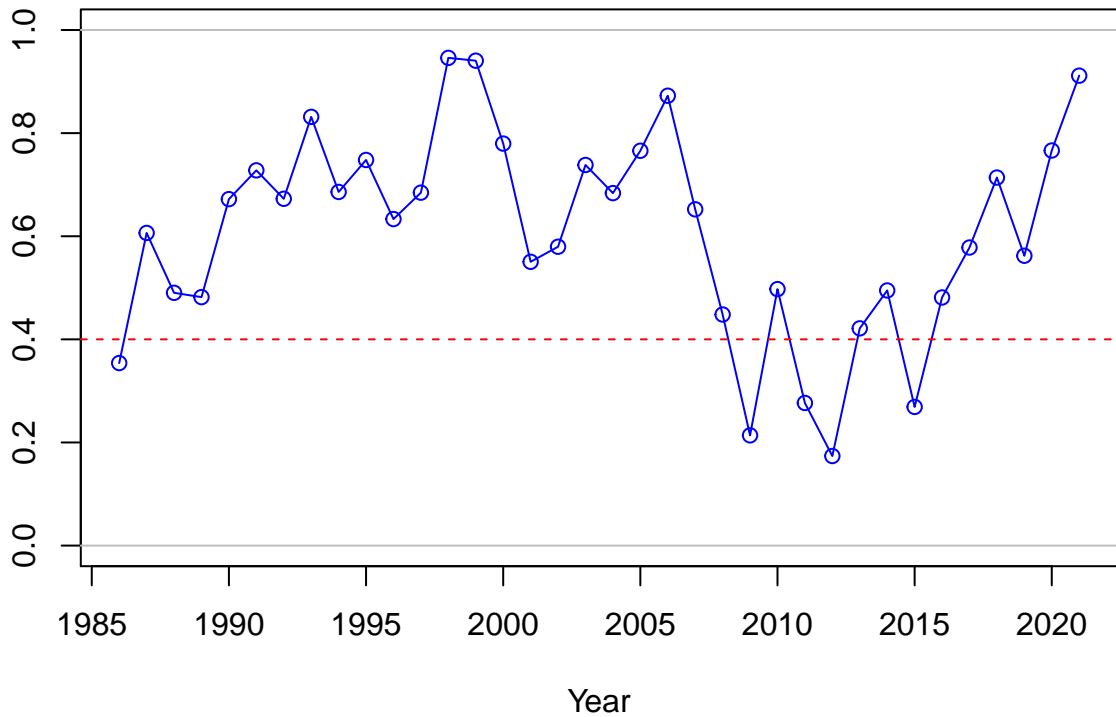
1985 1990 1995 2000 2005 2010 2015 2020

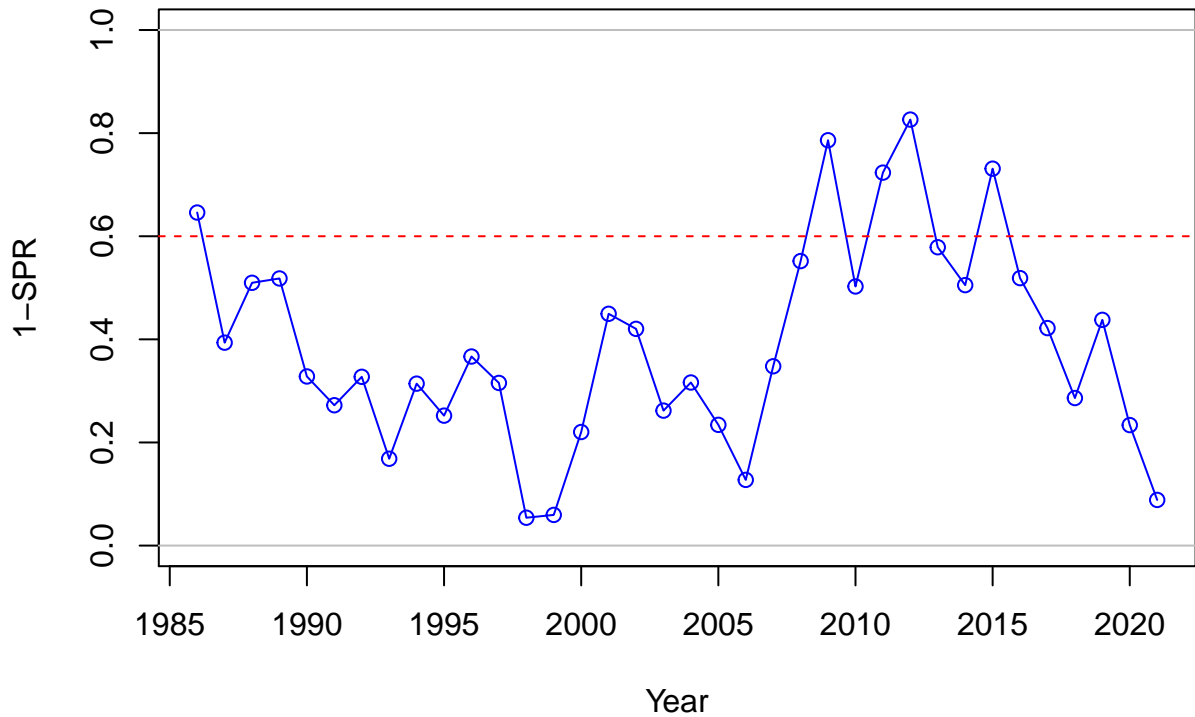
Year



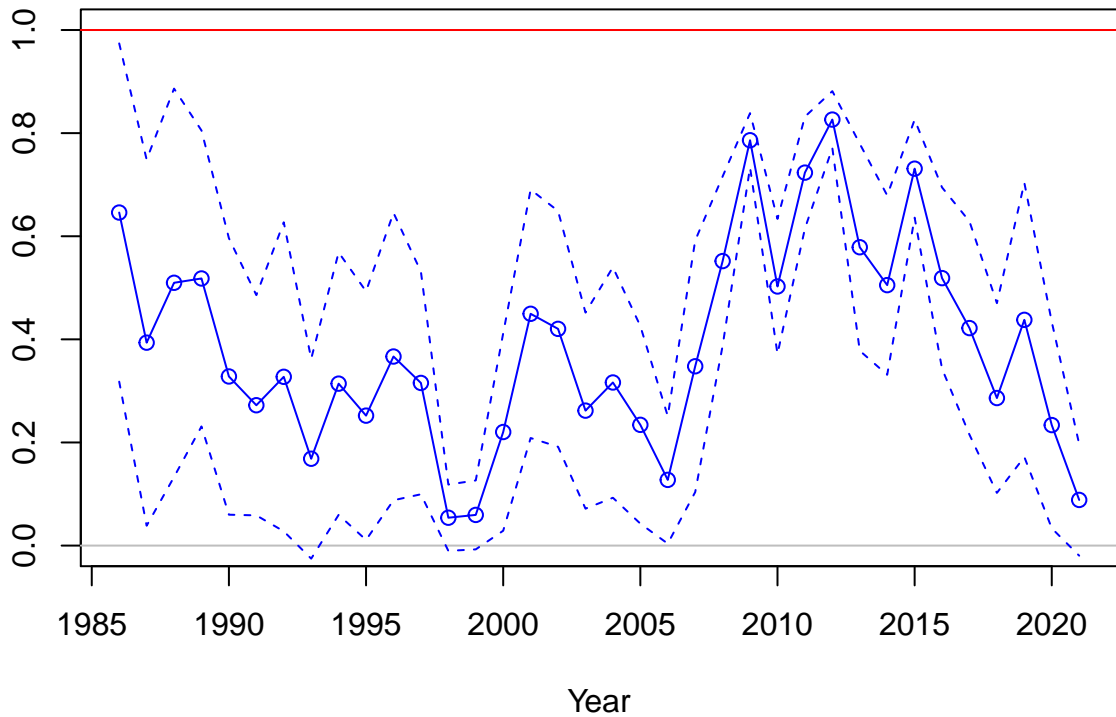


SPR

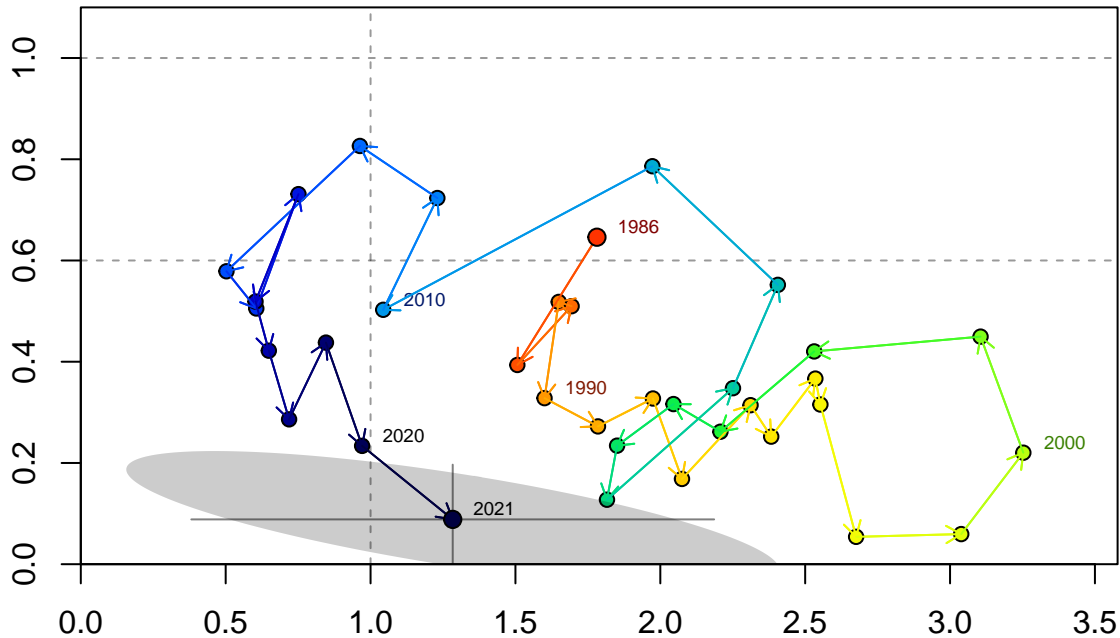




Fishing intensity: 1-SPR

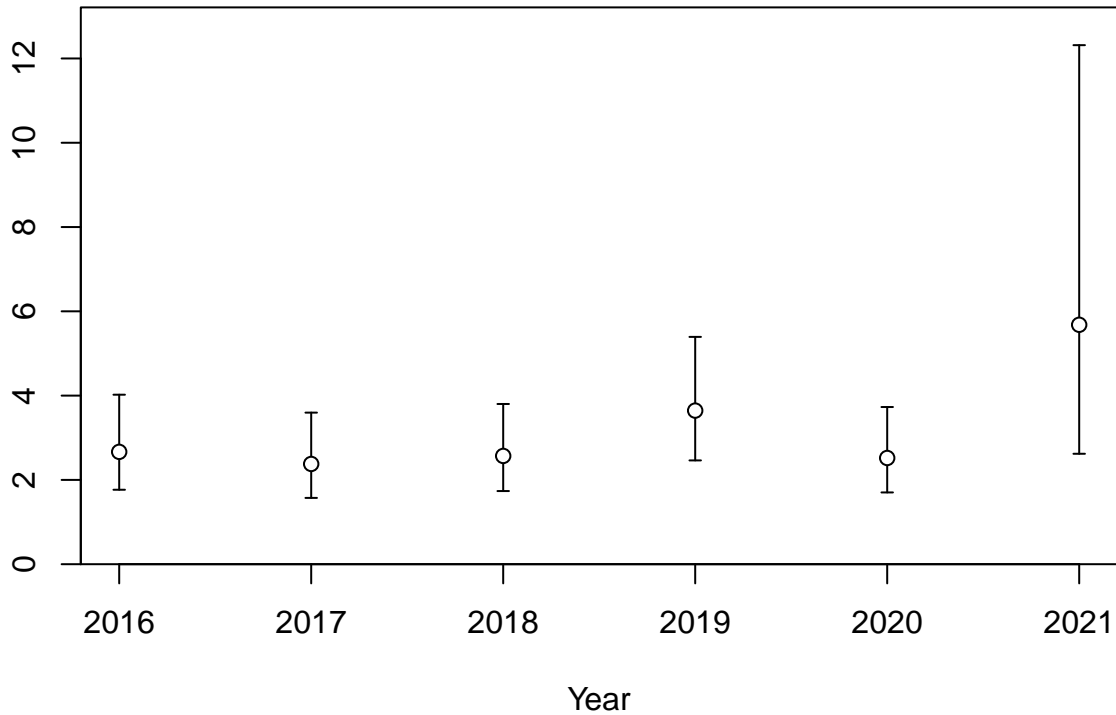


Fishing intensity: 1-SPR

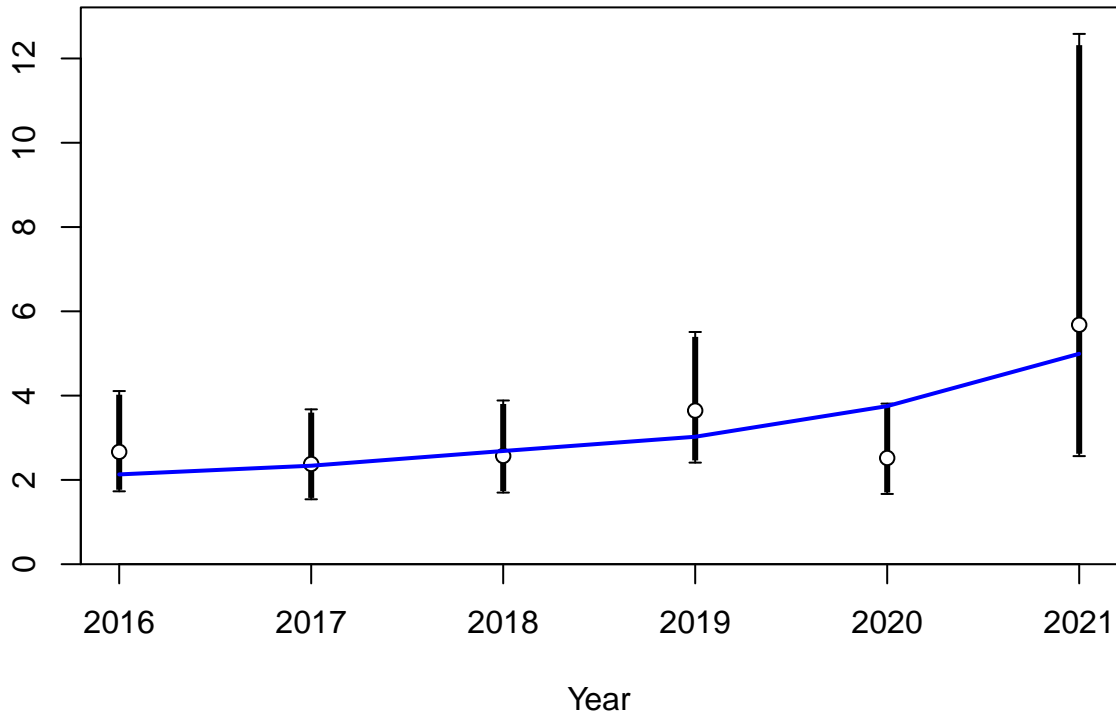


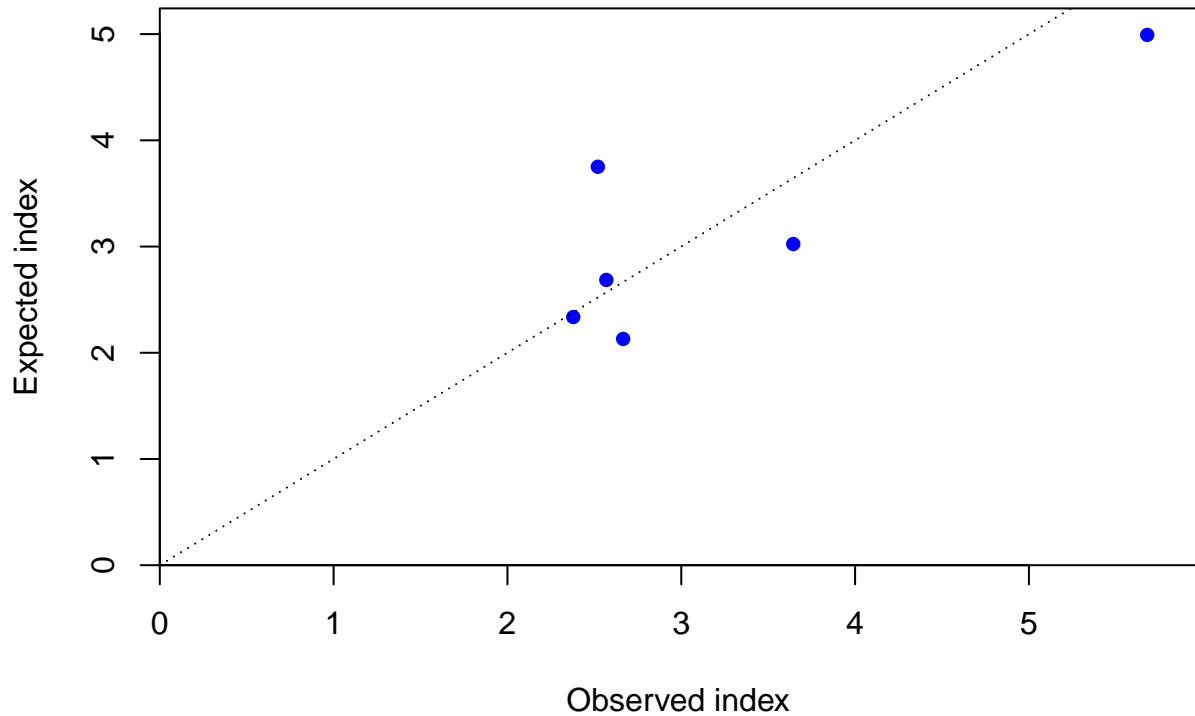
Relative spawning output: B/B_{MSY}

Index

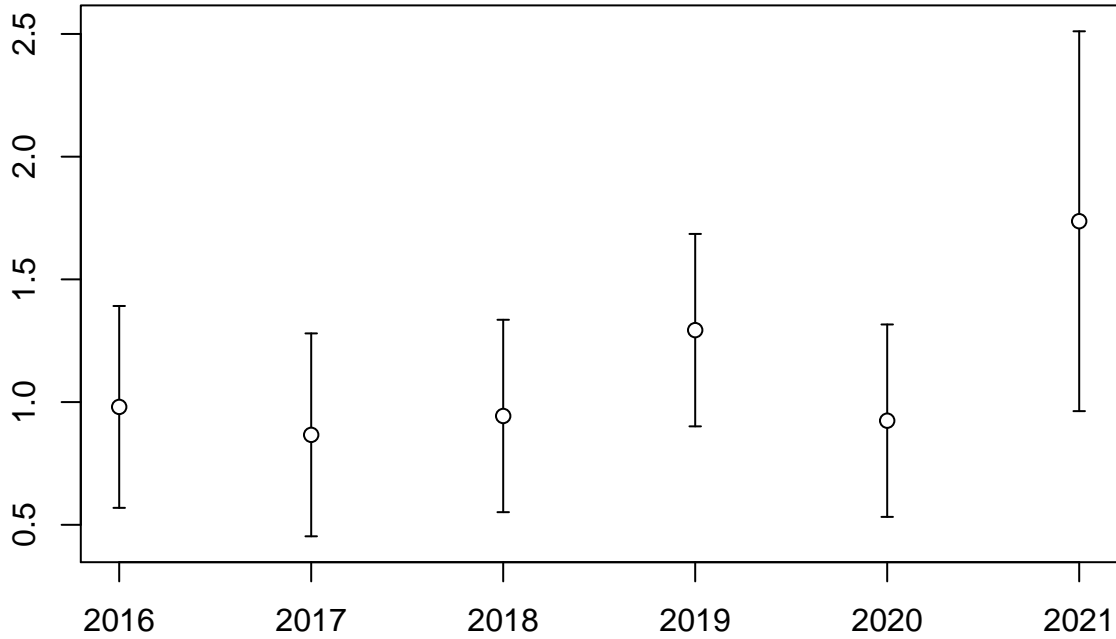


Index



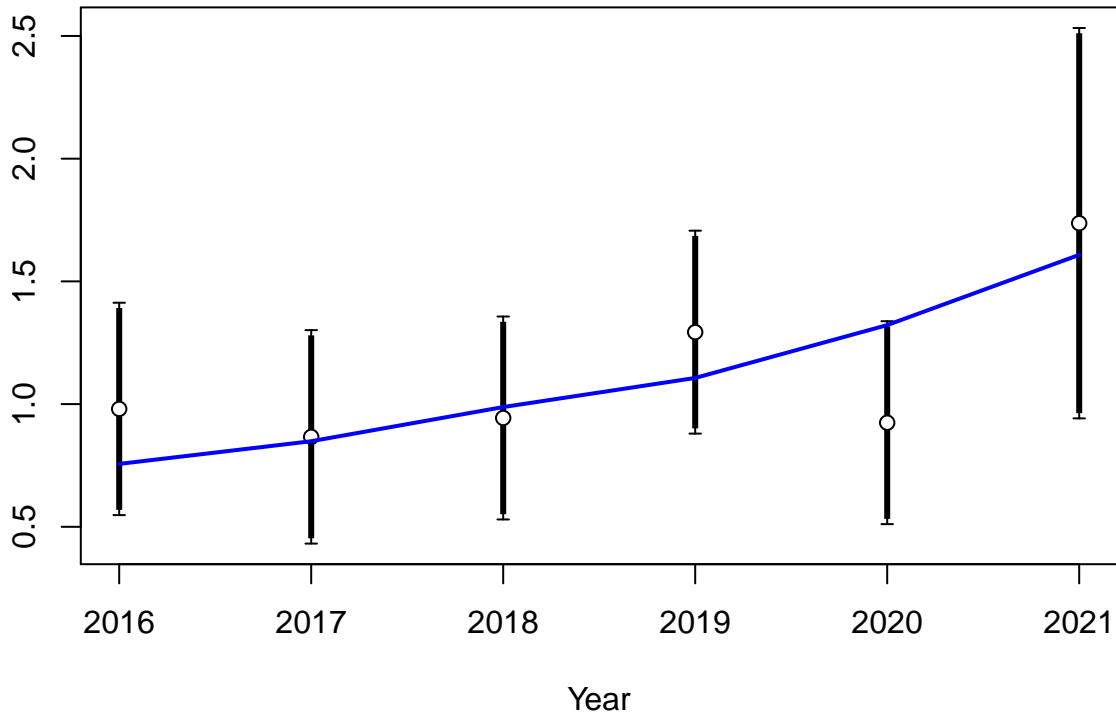


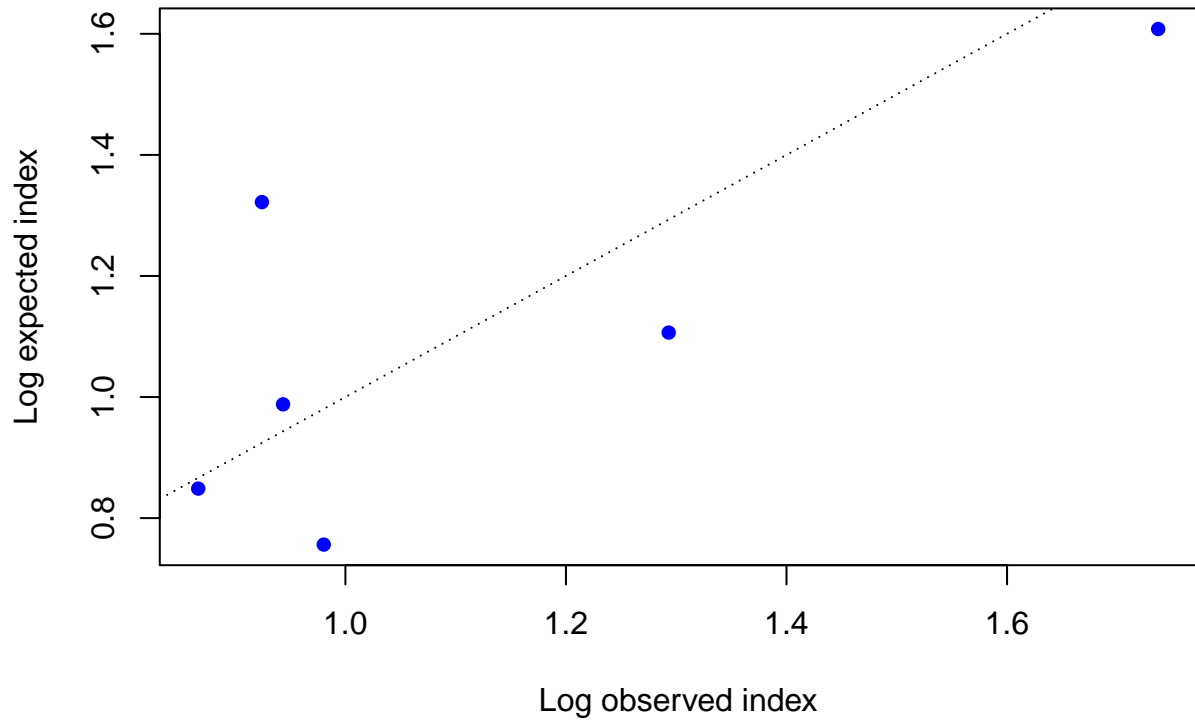
Log index

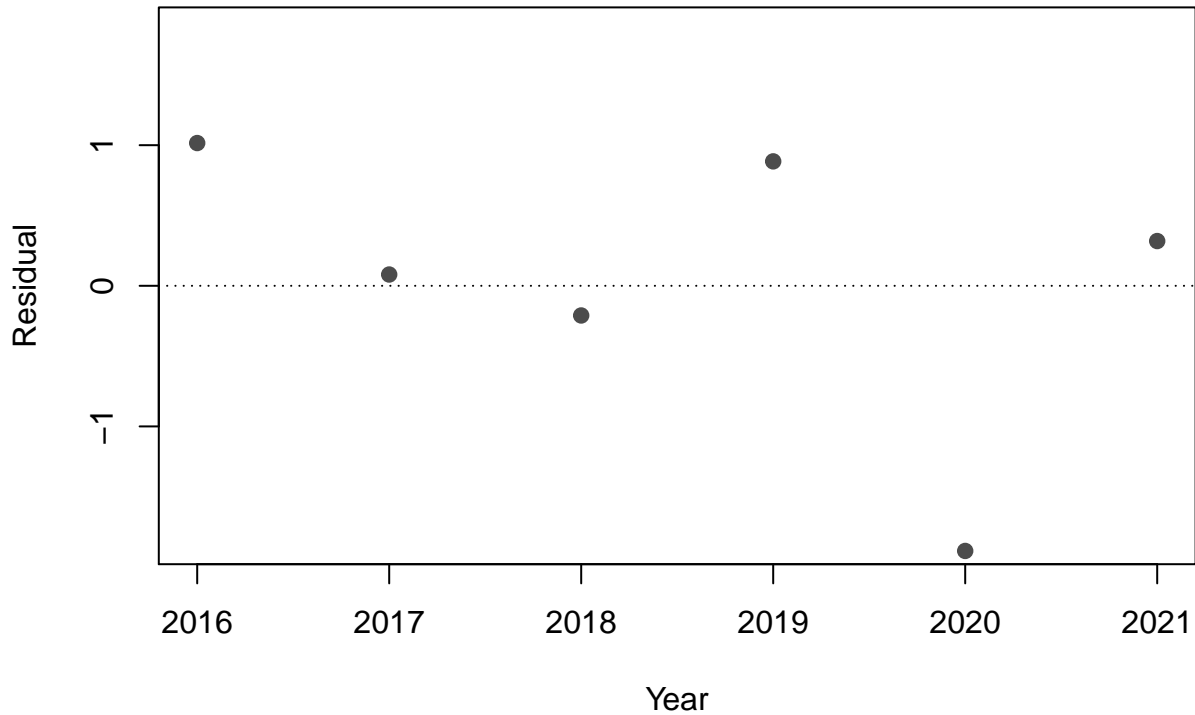


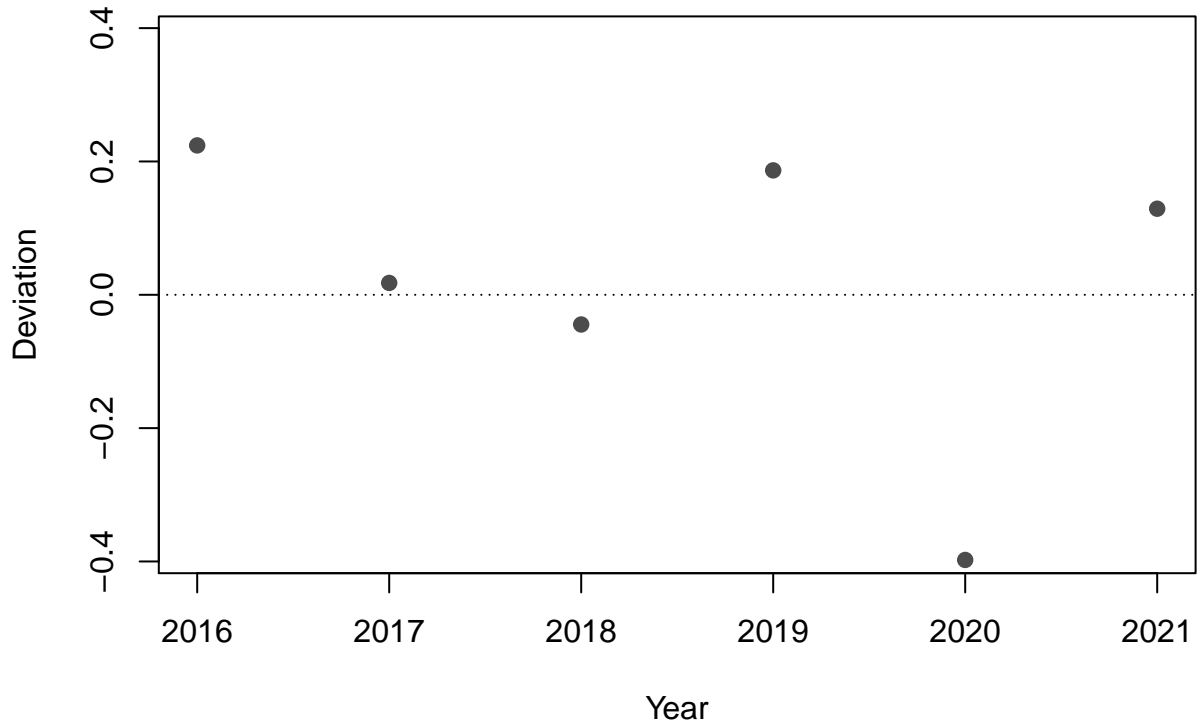
Year

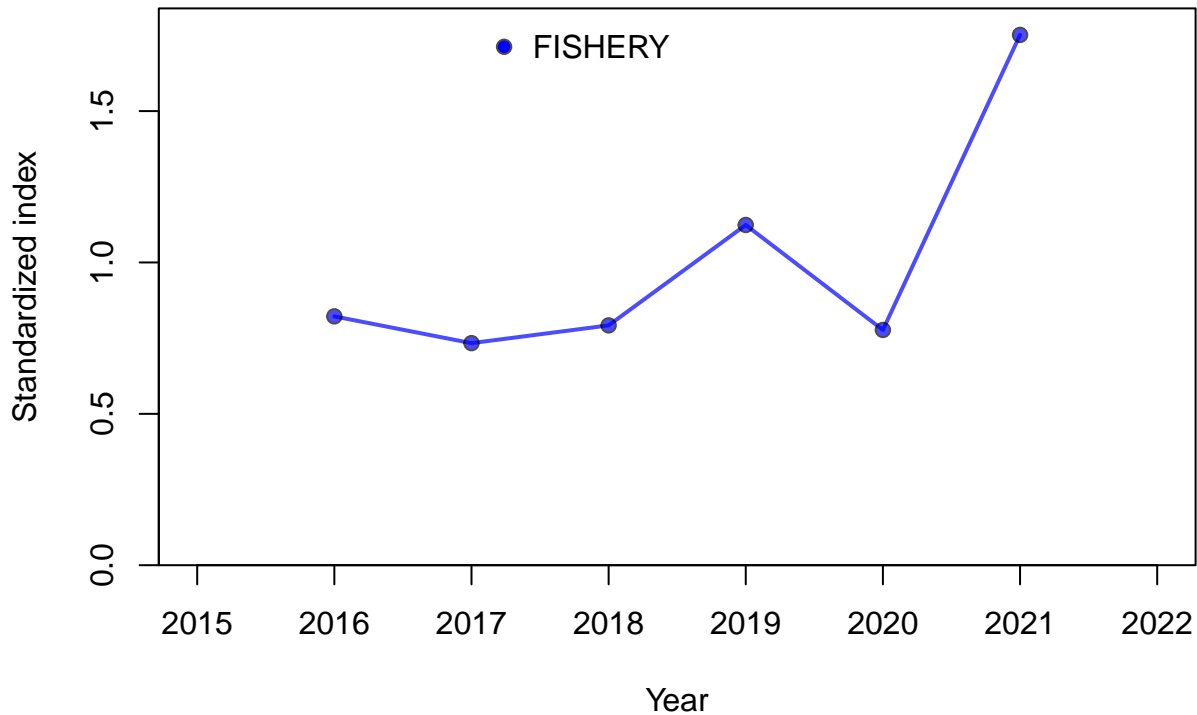
Log index

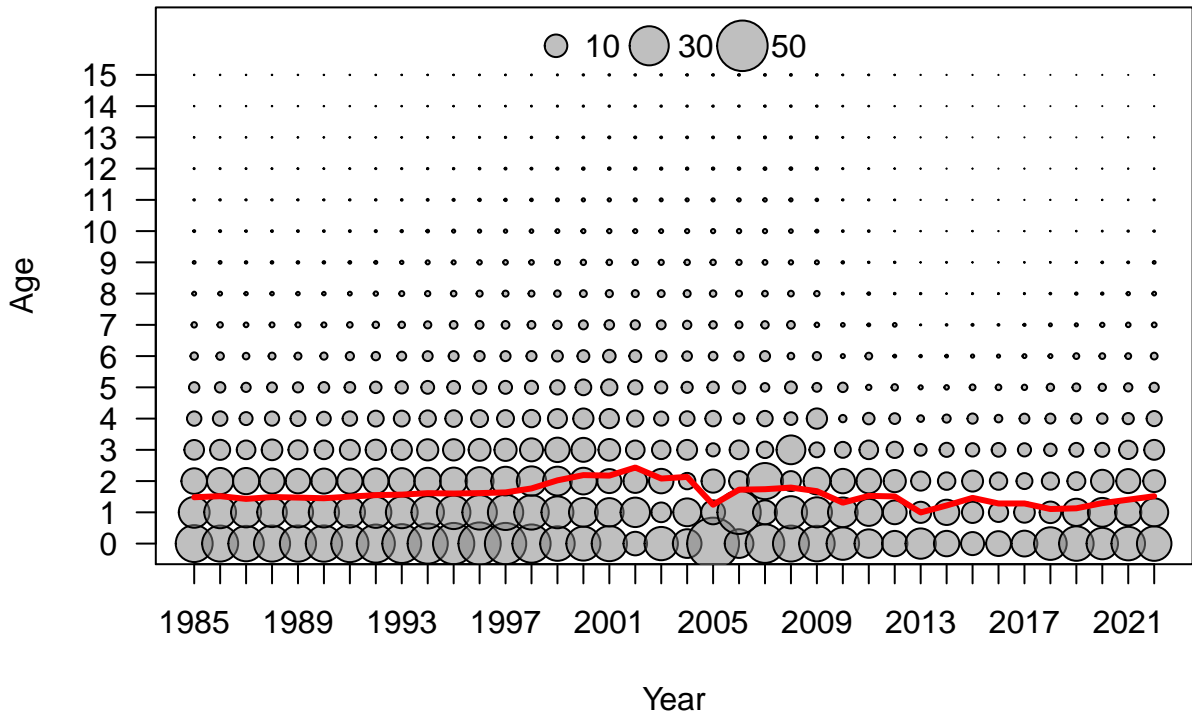


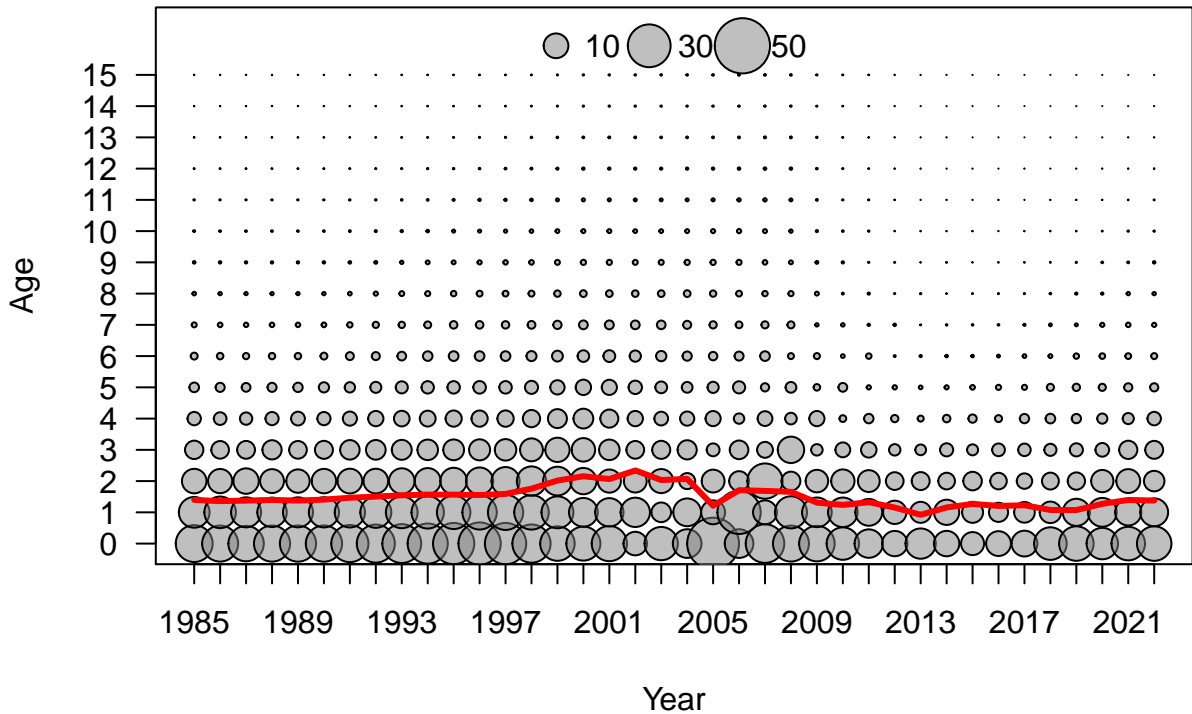


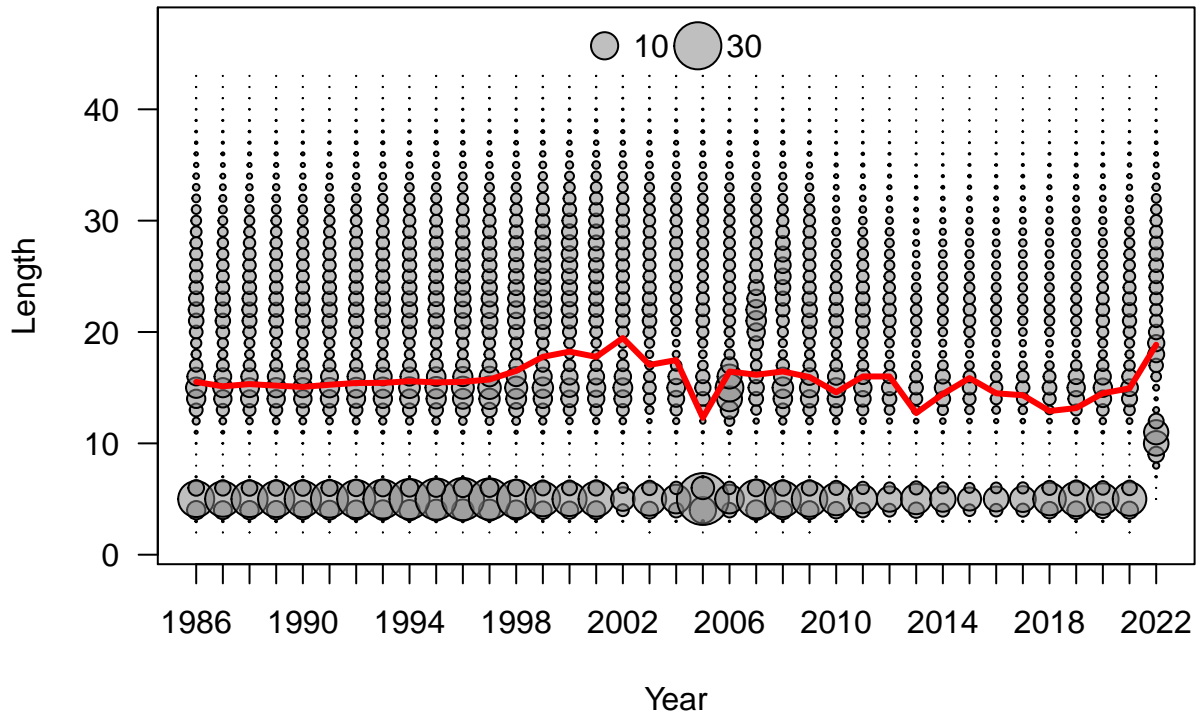


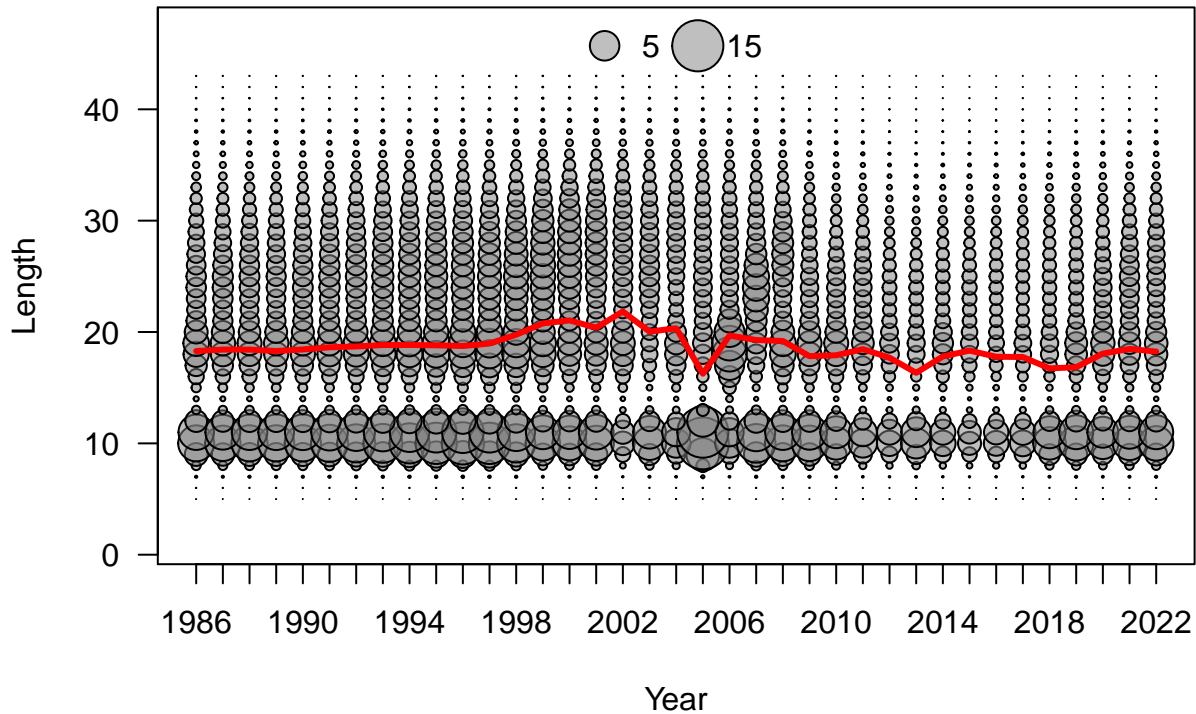


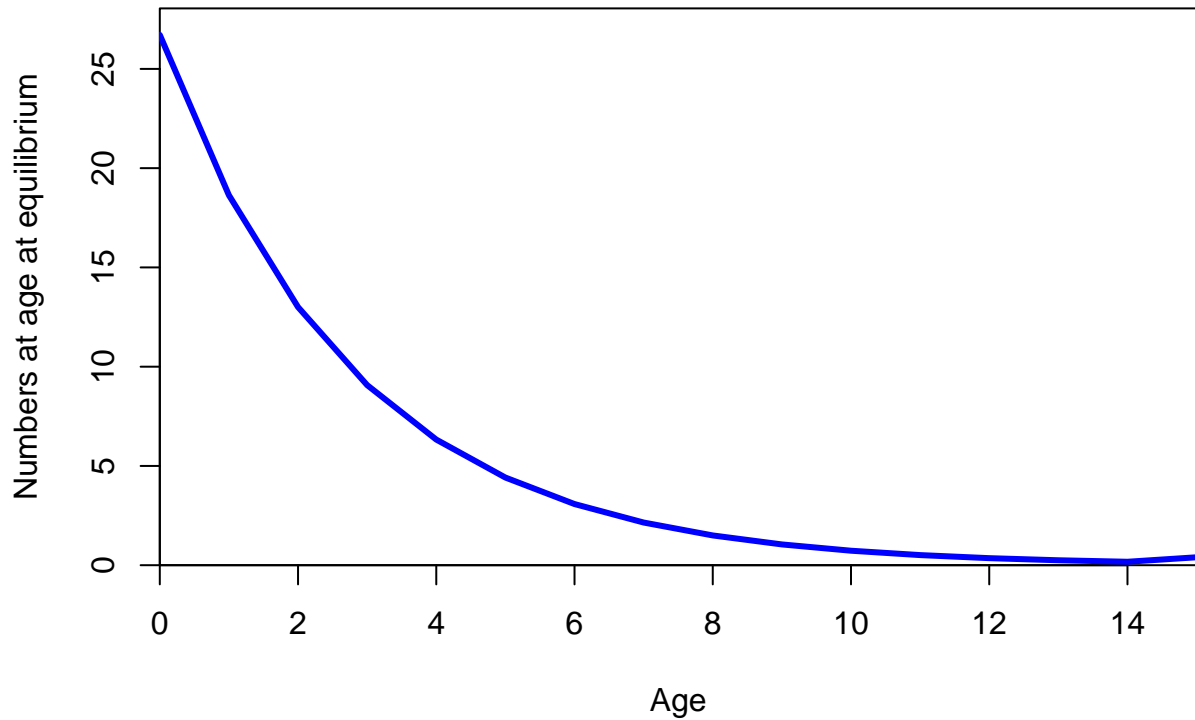






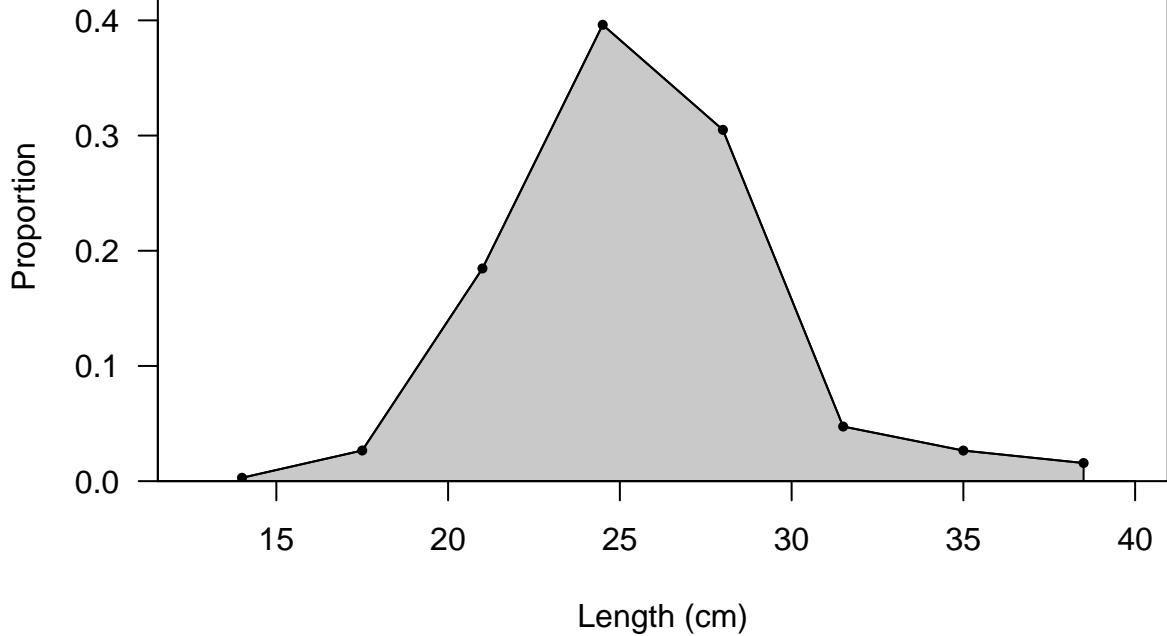


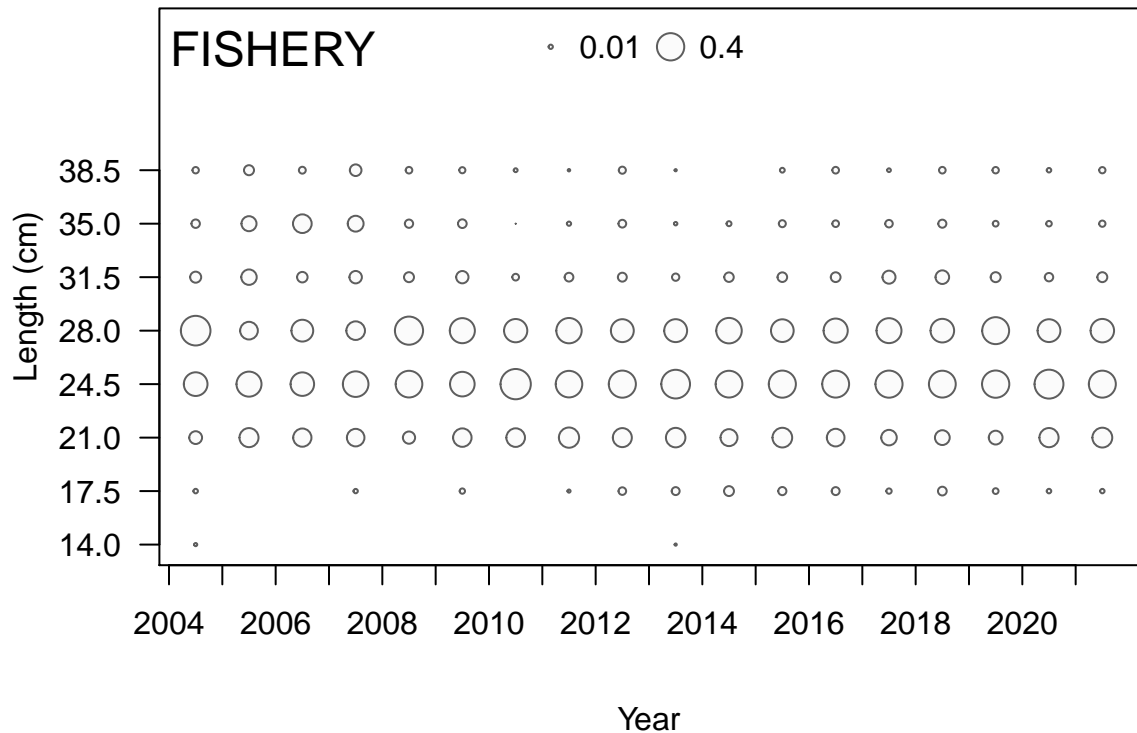




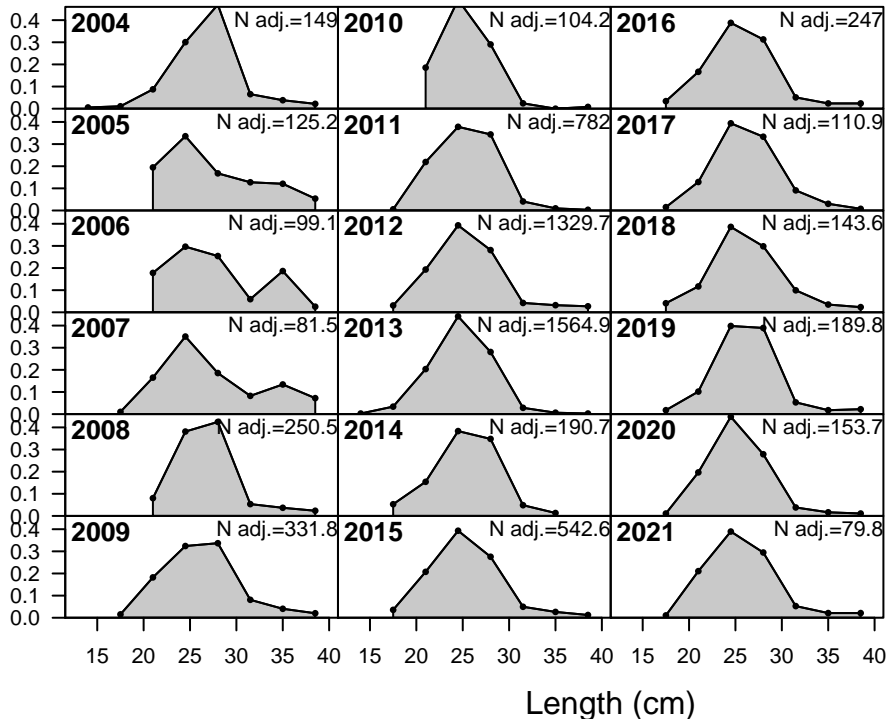
FISHERY

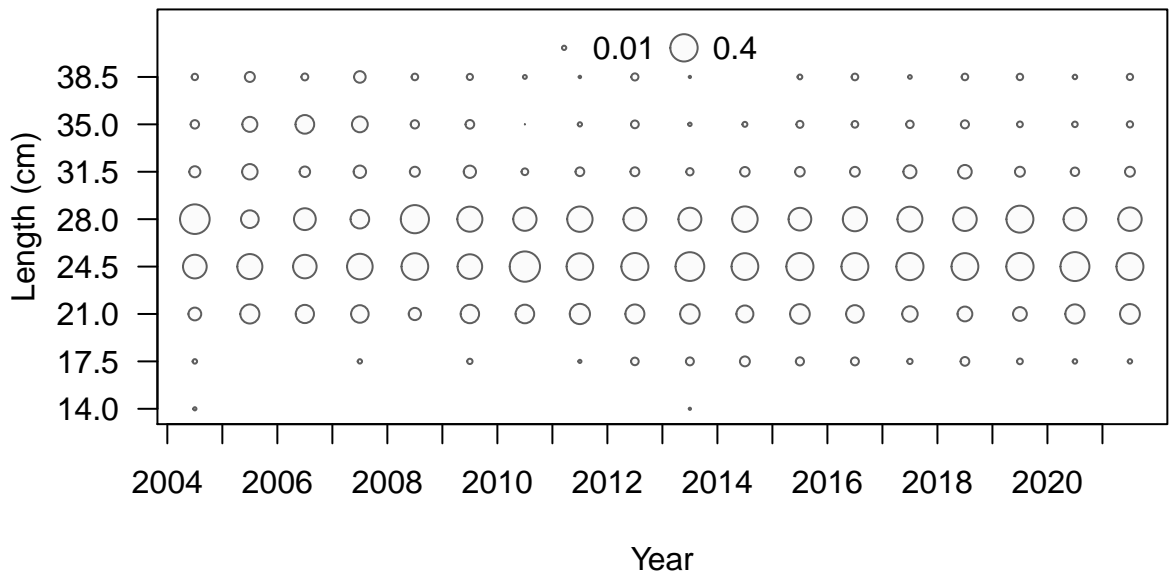
Sum of N adj.=6476



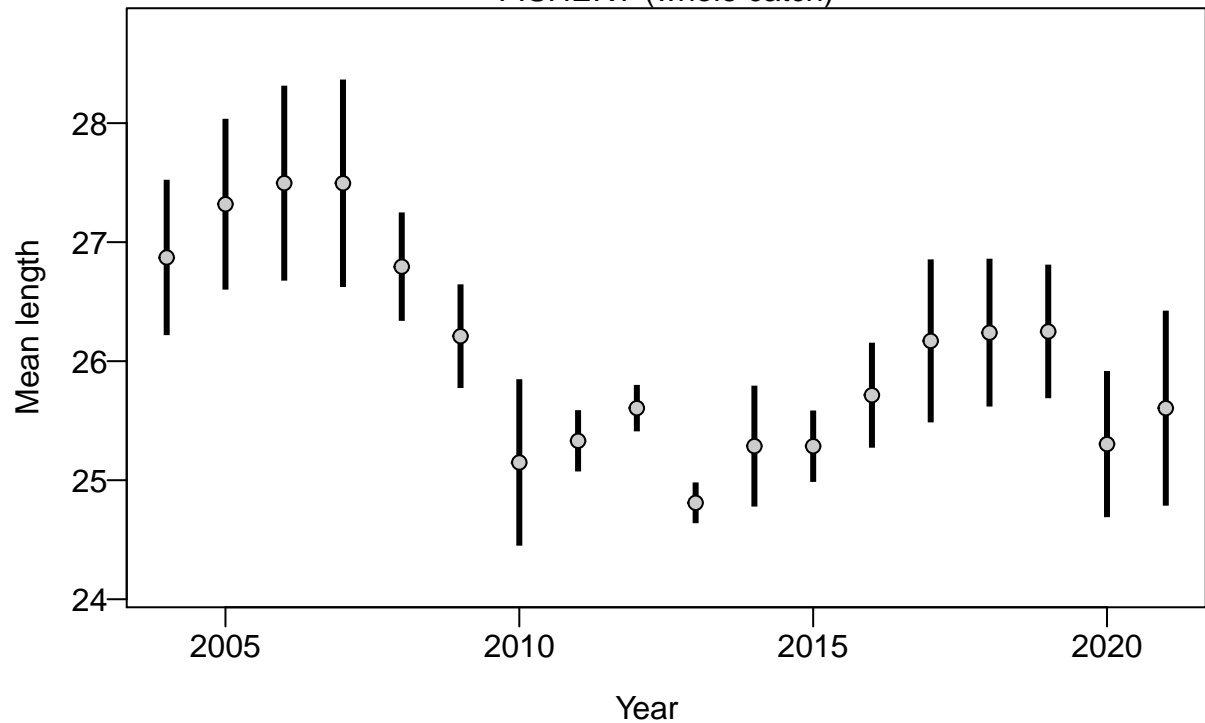


Proportion



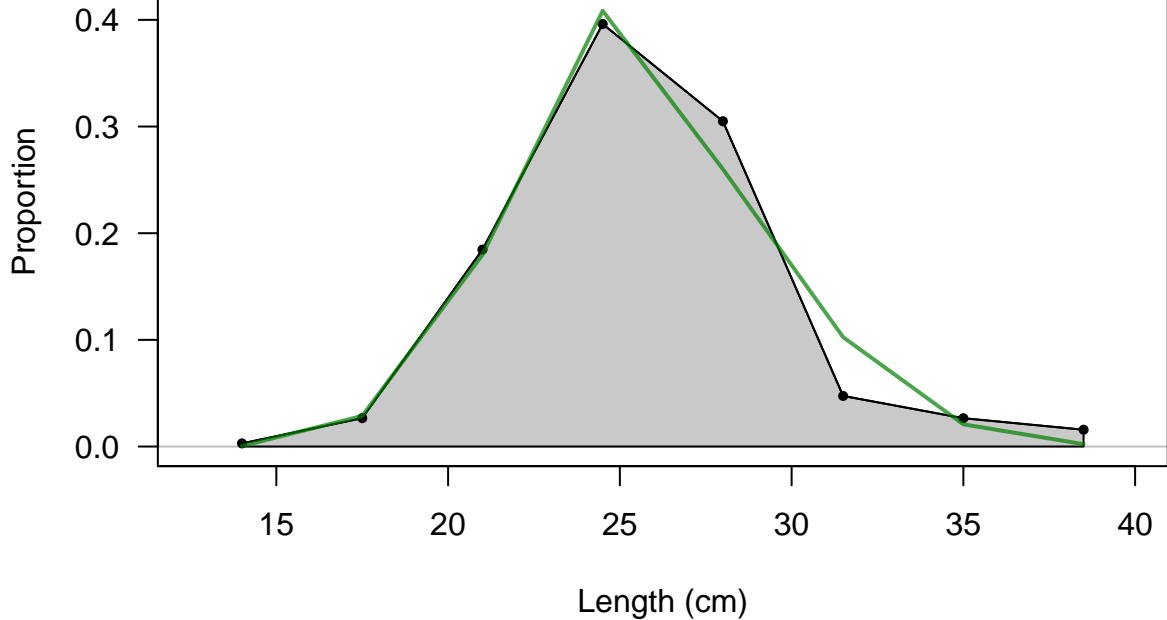


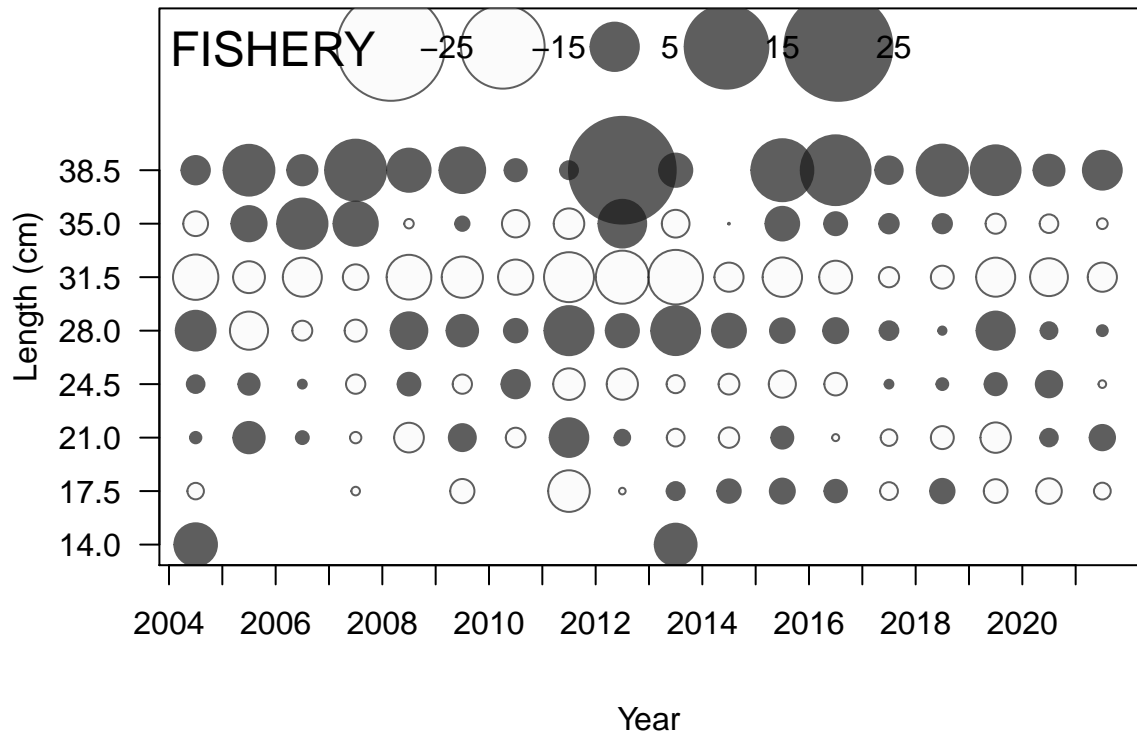
FISHERY (whole catch)



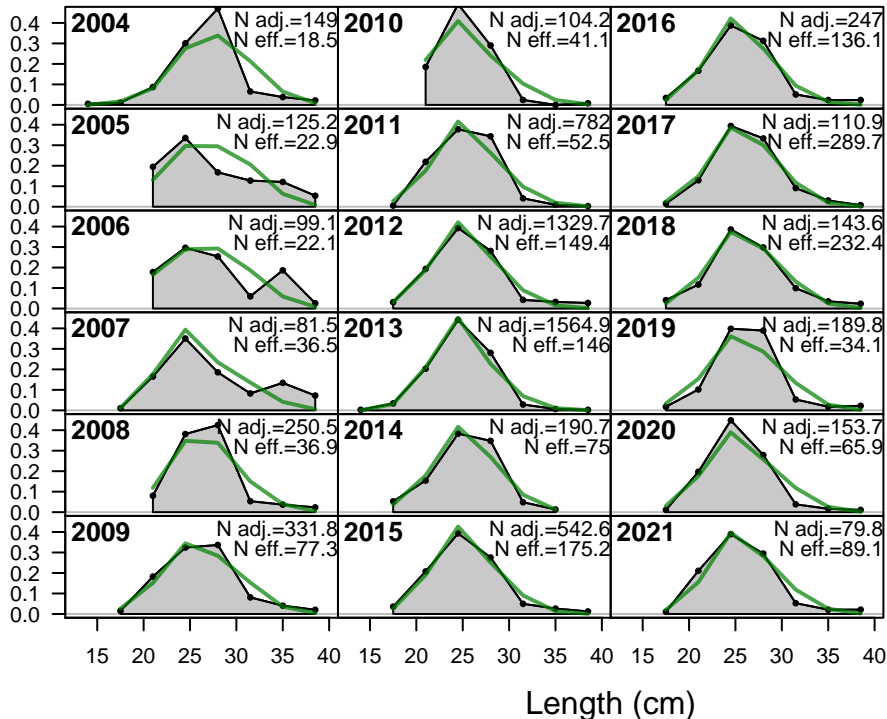
FISHERY

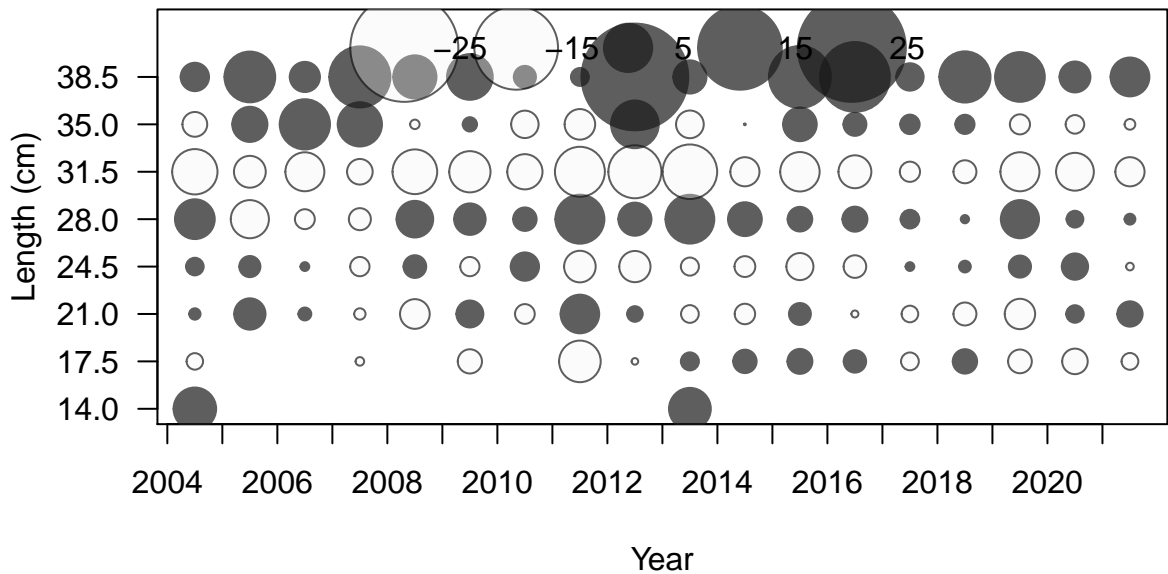
Sum of N adj.=6476
Sum of N eff.=1700.8



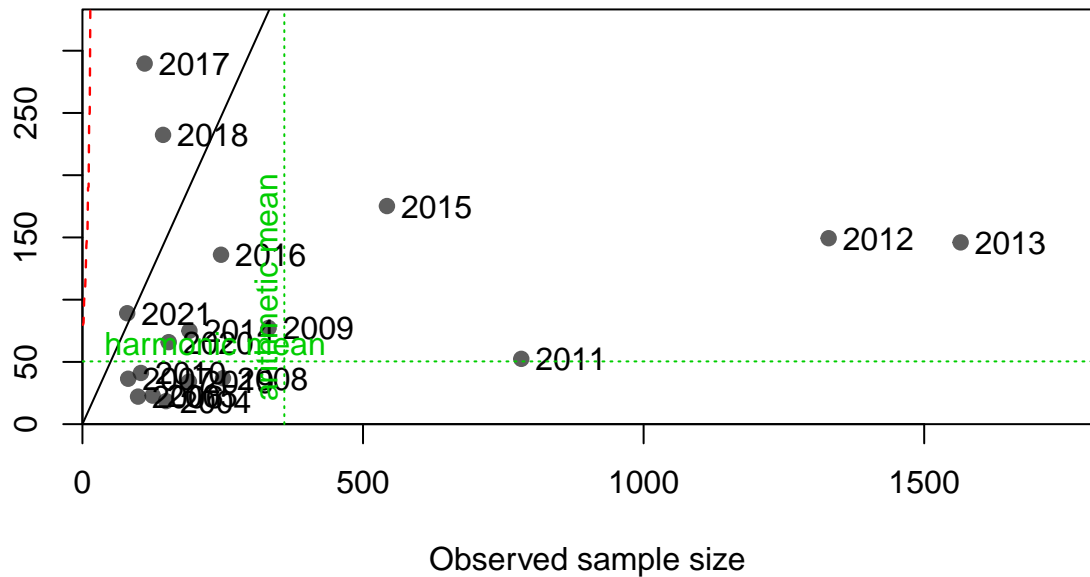


Proportion

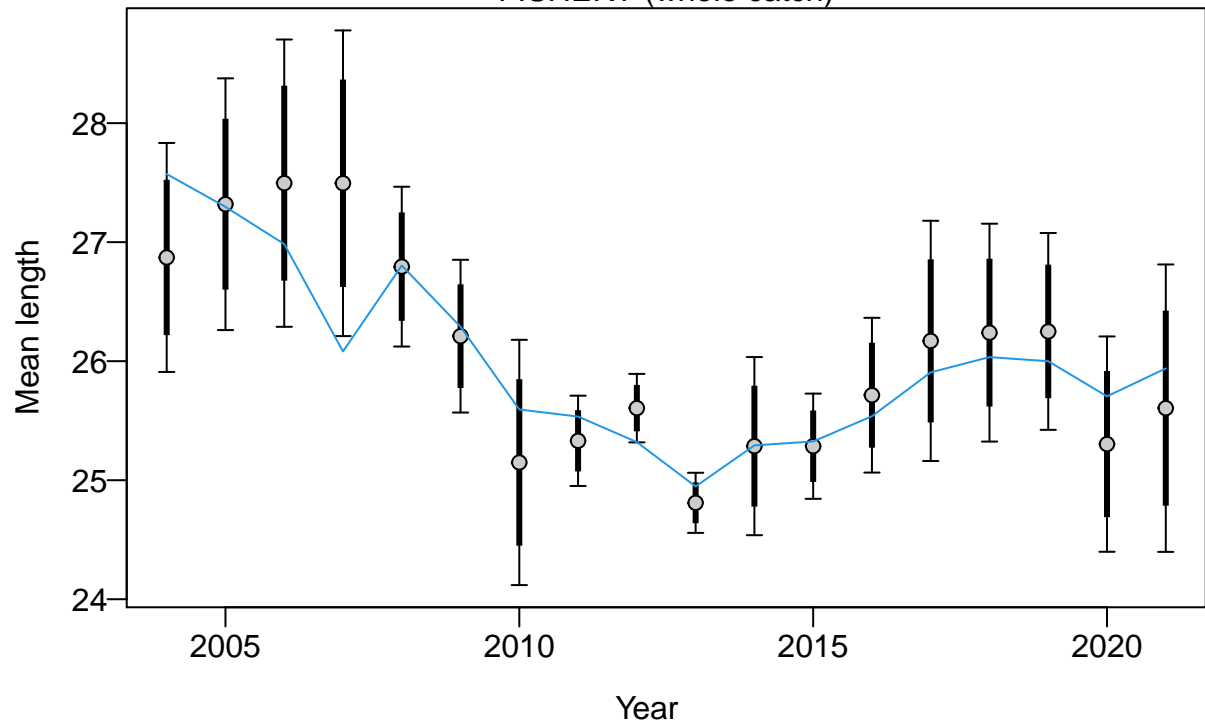


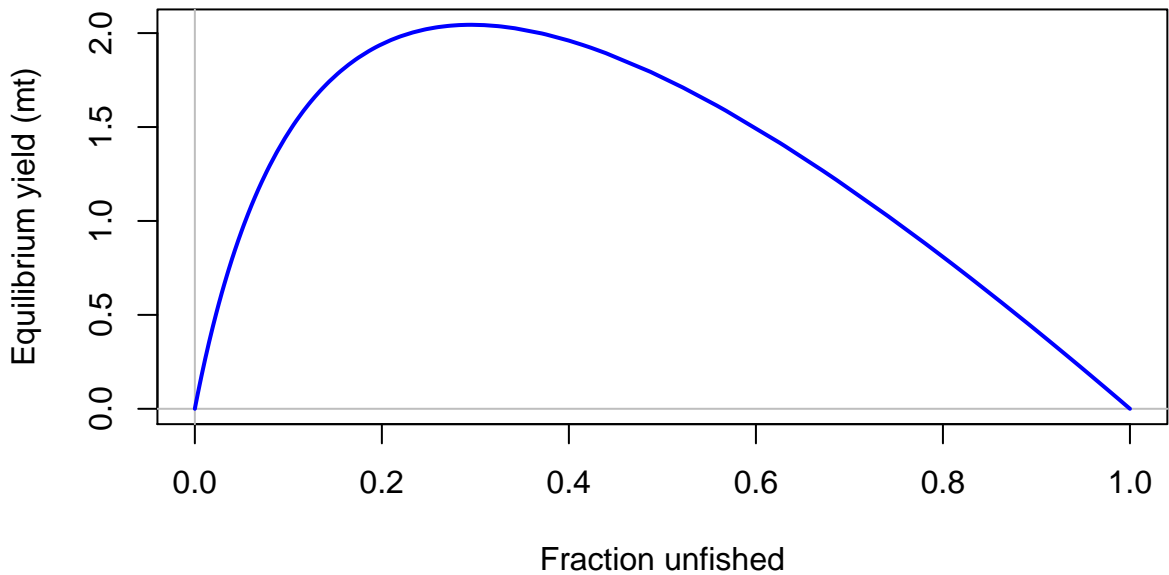


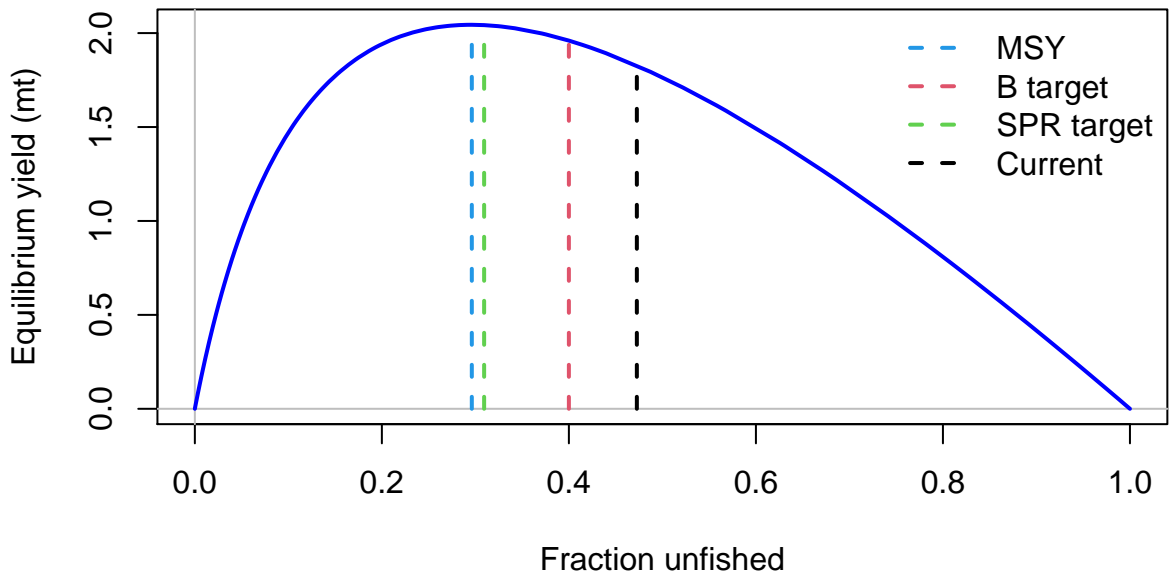
Effective sample size

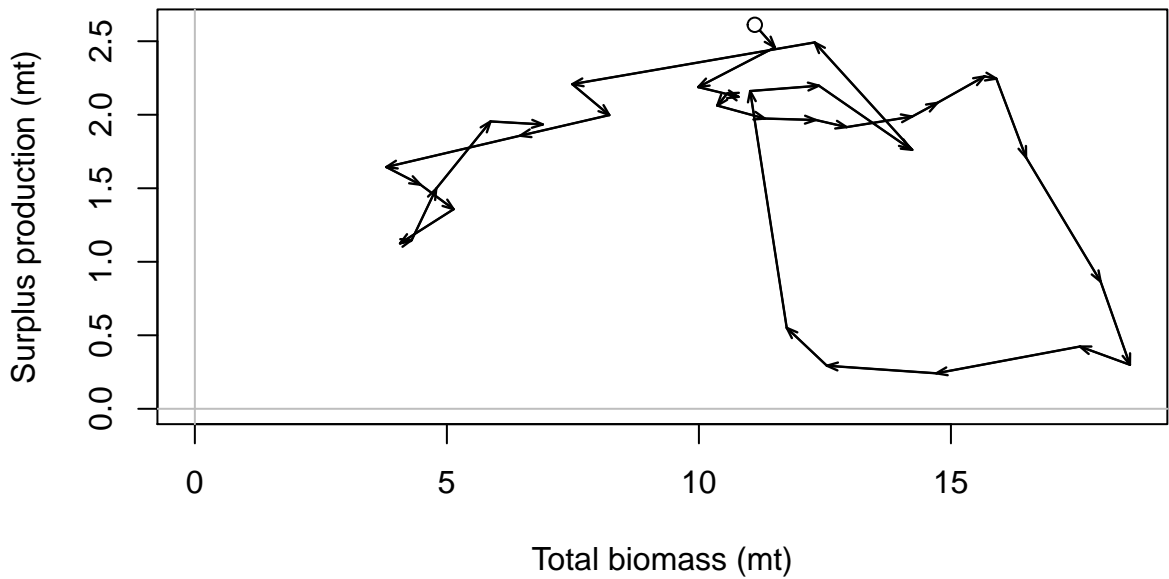


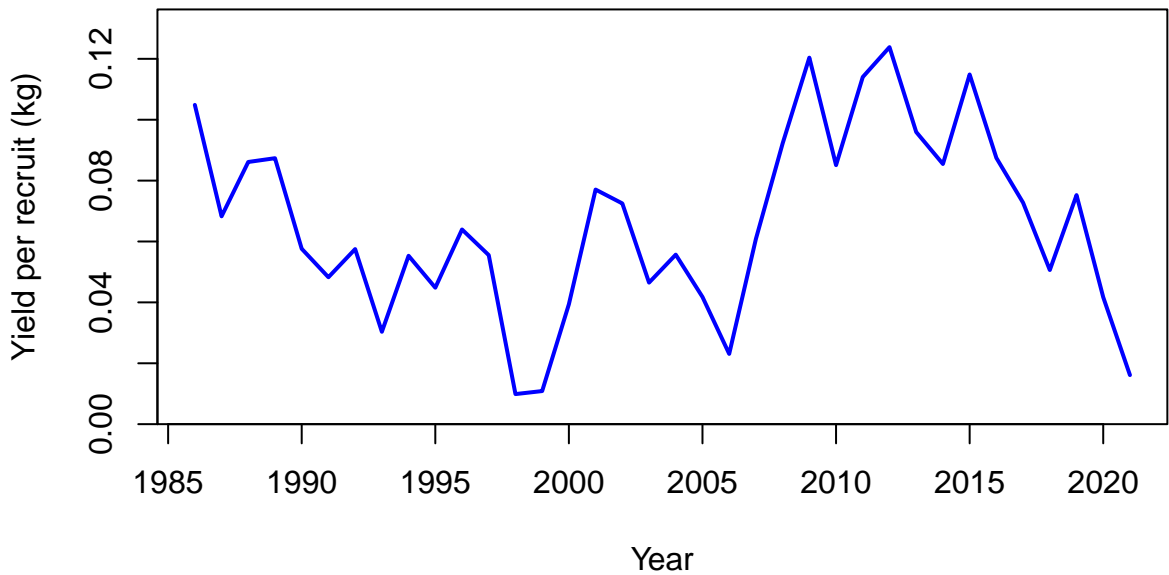
FISHERY (whole catch)

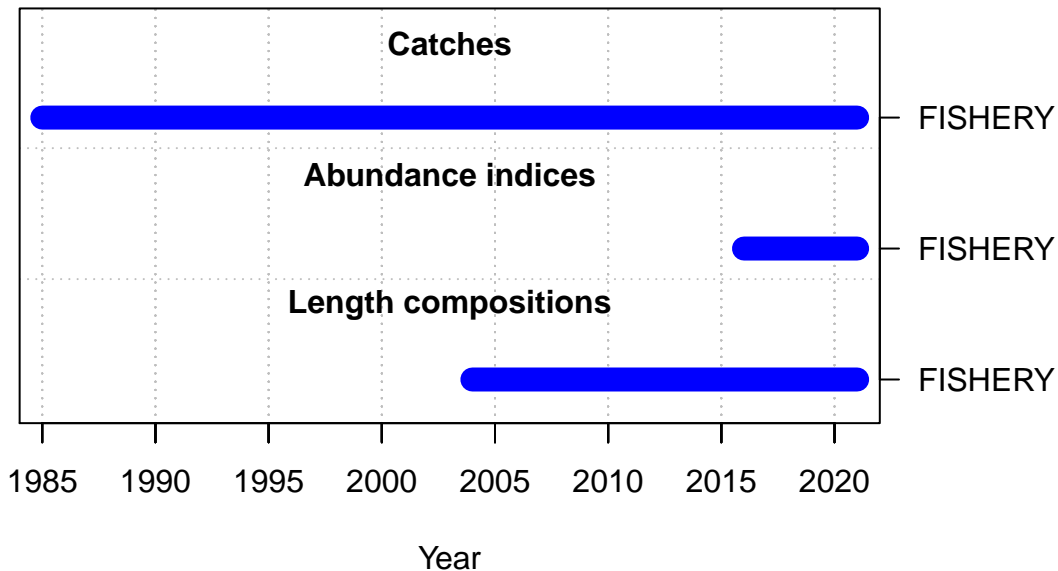


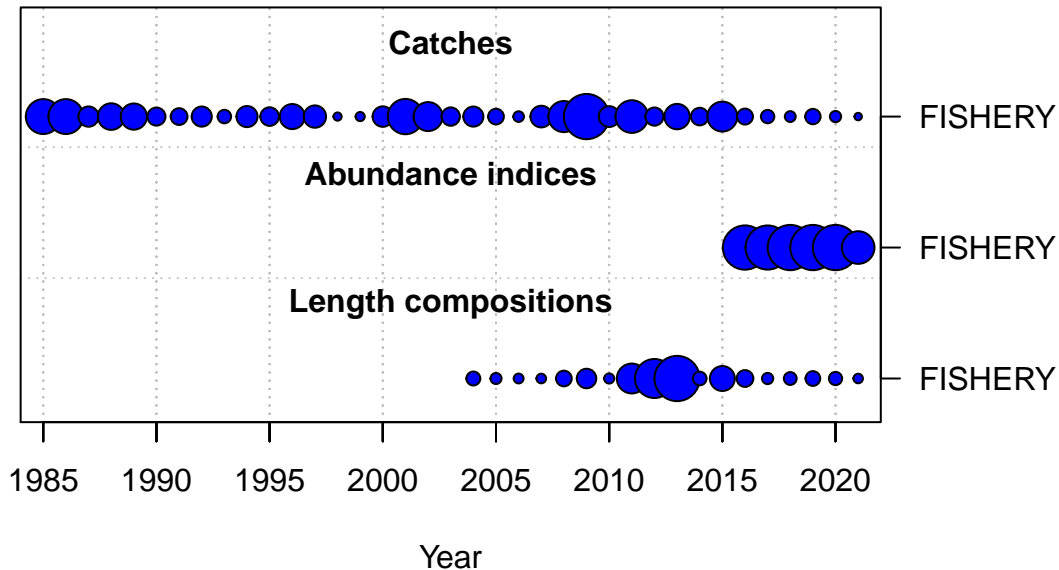




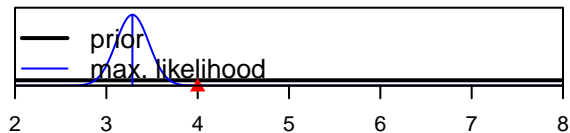








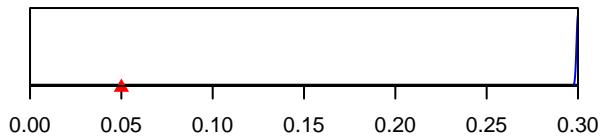
SR_LN(R0)



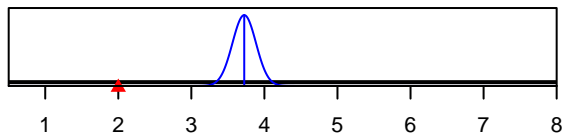
Size_inflection_FISHERY(1)



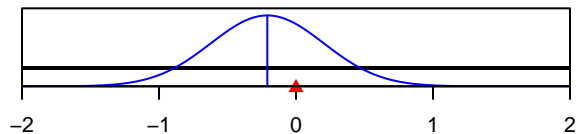
InitF_seas_1_flt_1FISHERY



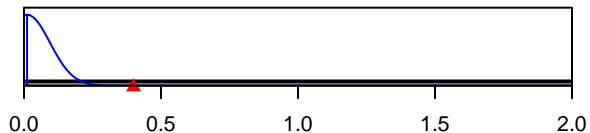
Size_95%width_FISHERY(1)



LnQ_base_FISHERY(1)



Q_extraSD_FISHERY(1)



Parameter value