

Plots created using the 'r4ss' package in R

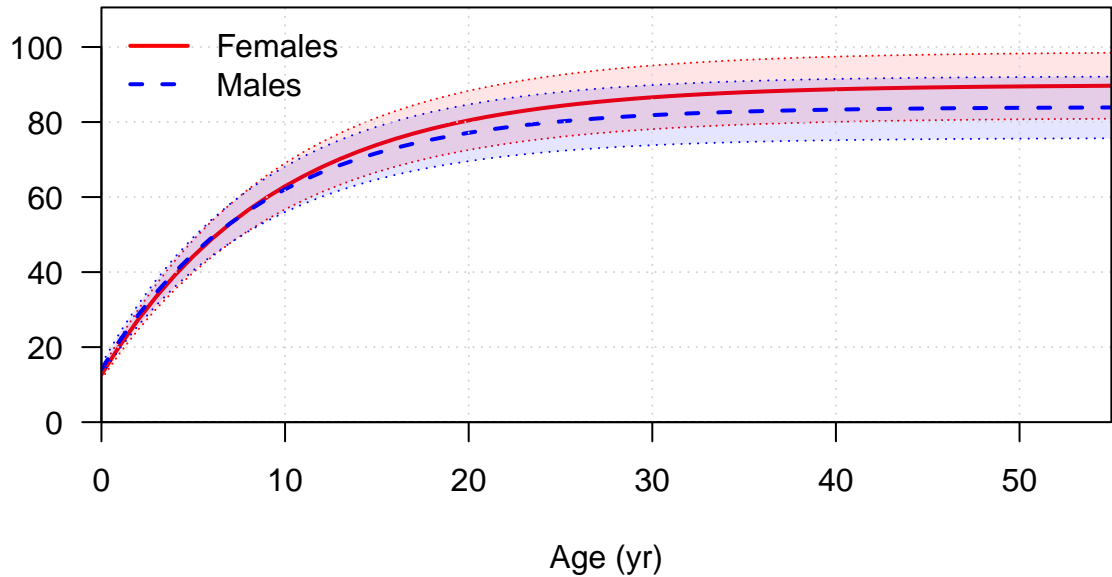
Stock Synthesis version: 3.30.19.0

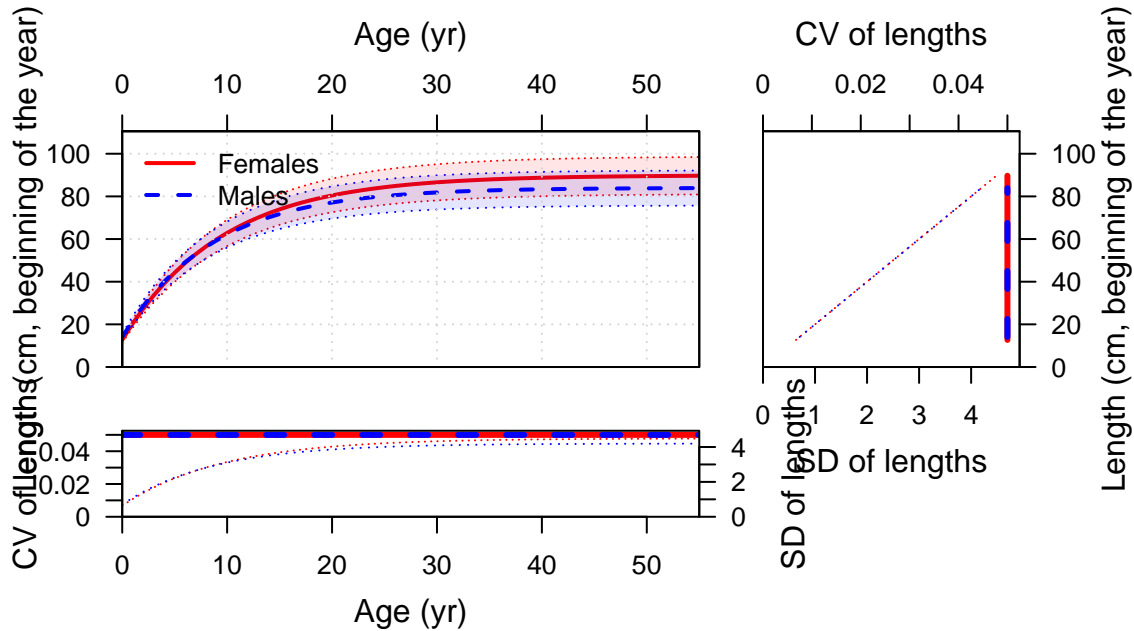
StartTime: Sat Jul 30 09:52:29 2022

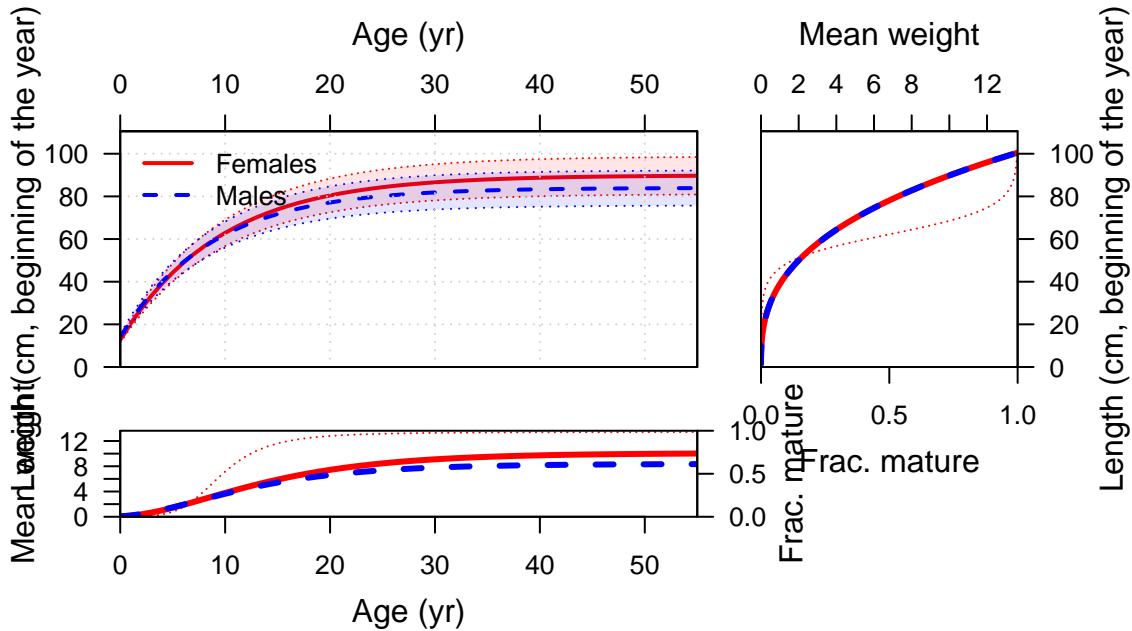
Data_File: data.ss

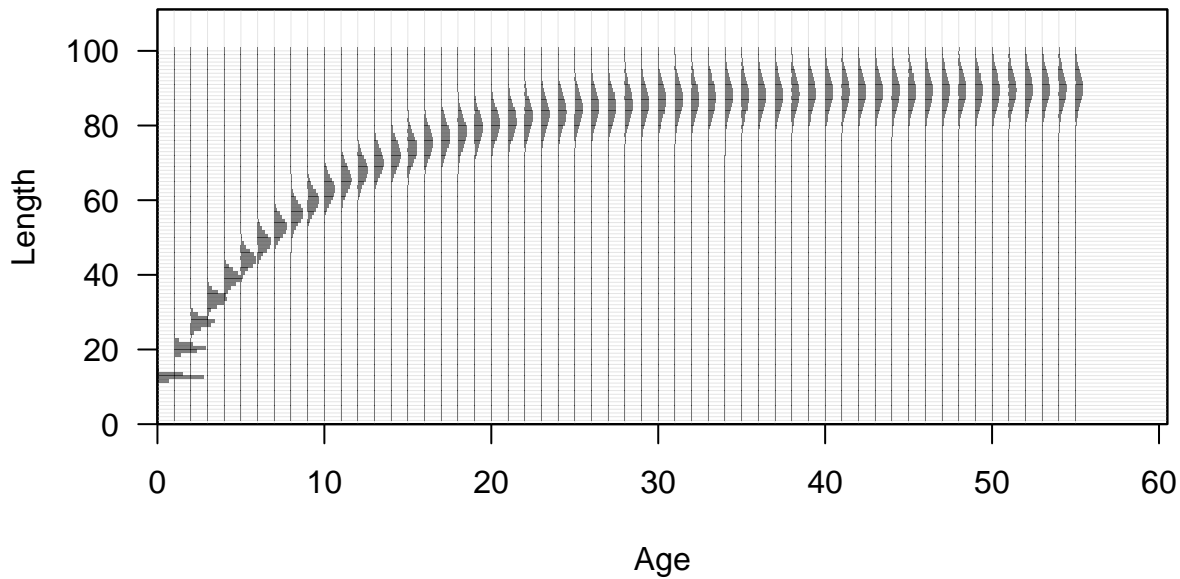
Control_File: control.ss

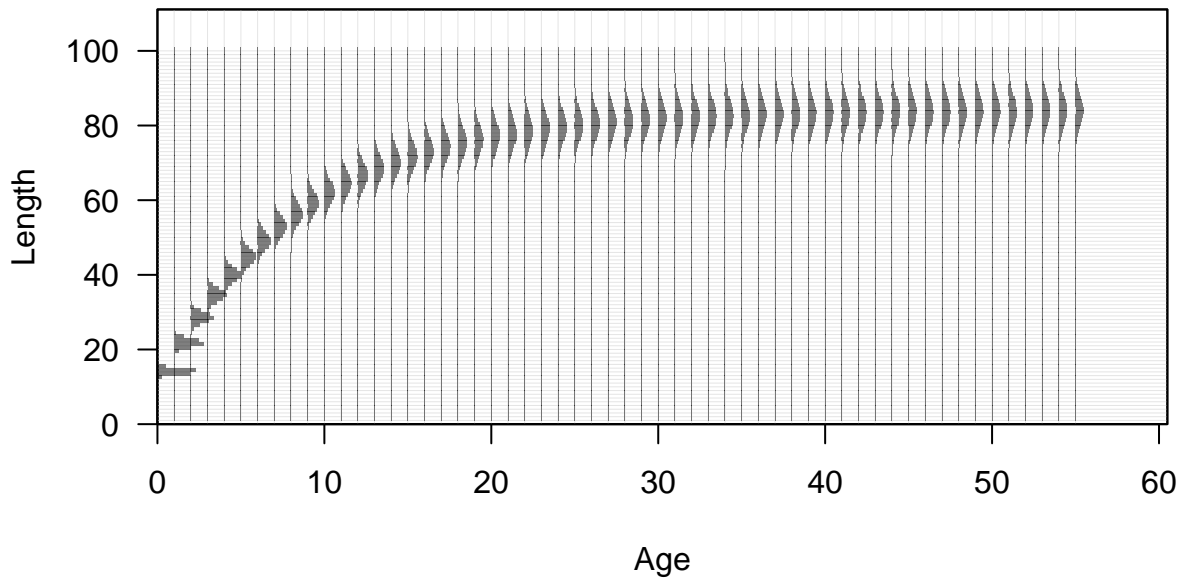
Length (cm, beginning of the year)

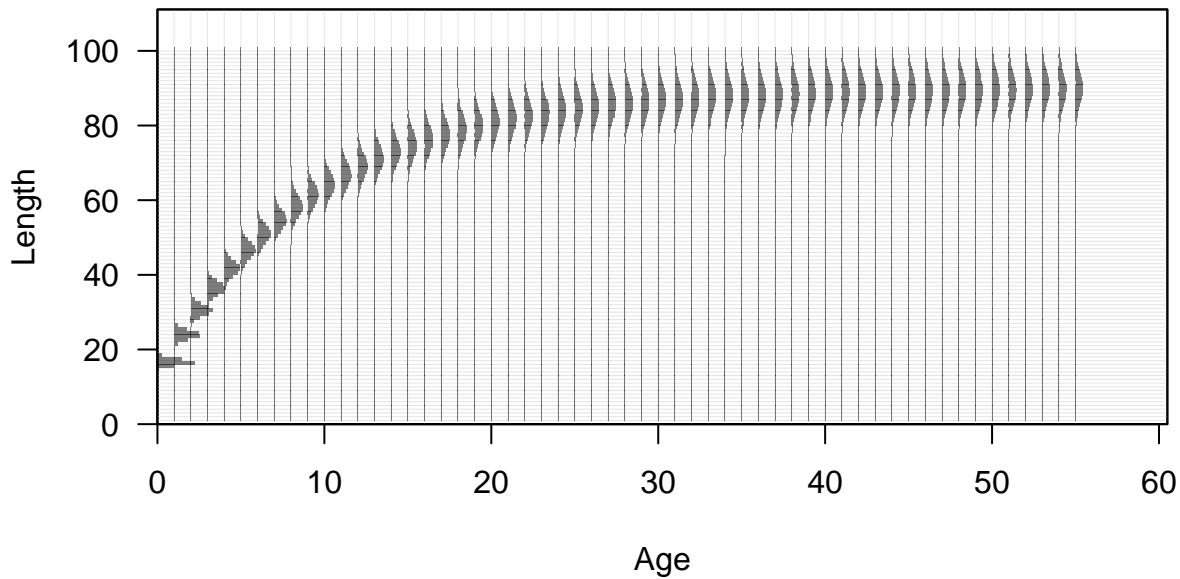


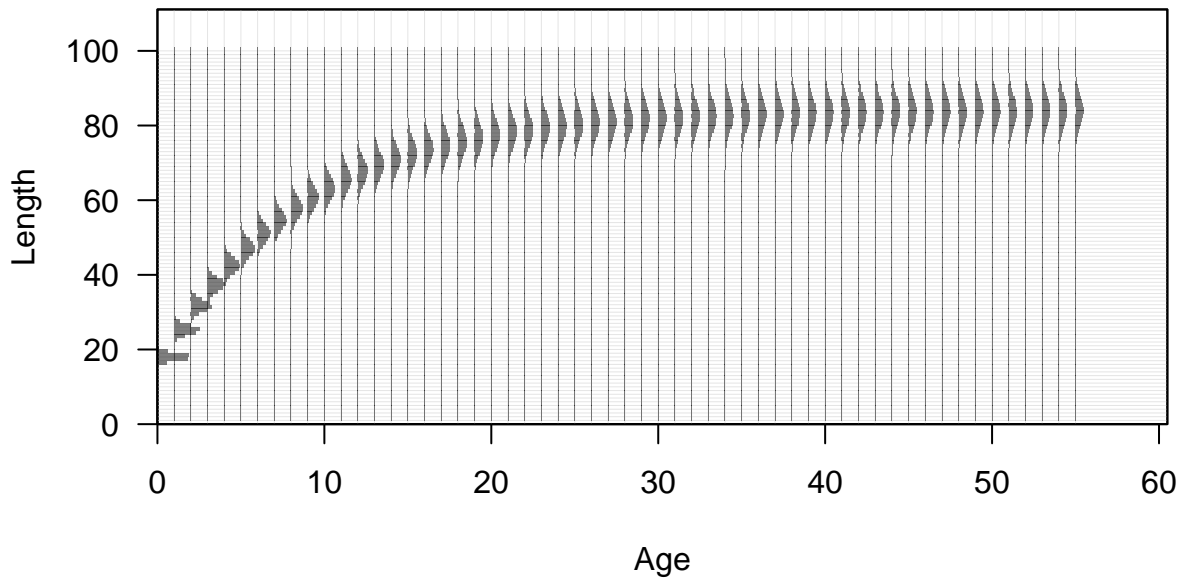




















Fecundity



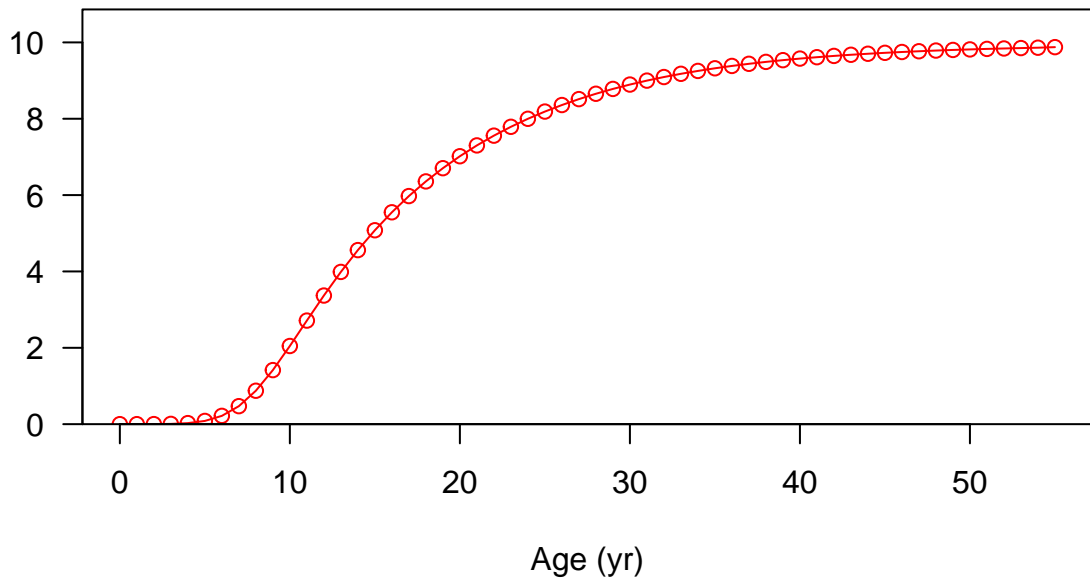
Fecundity



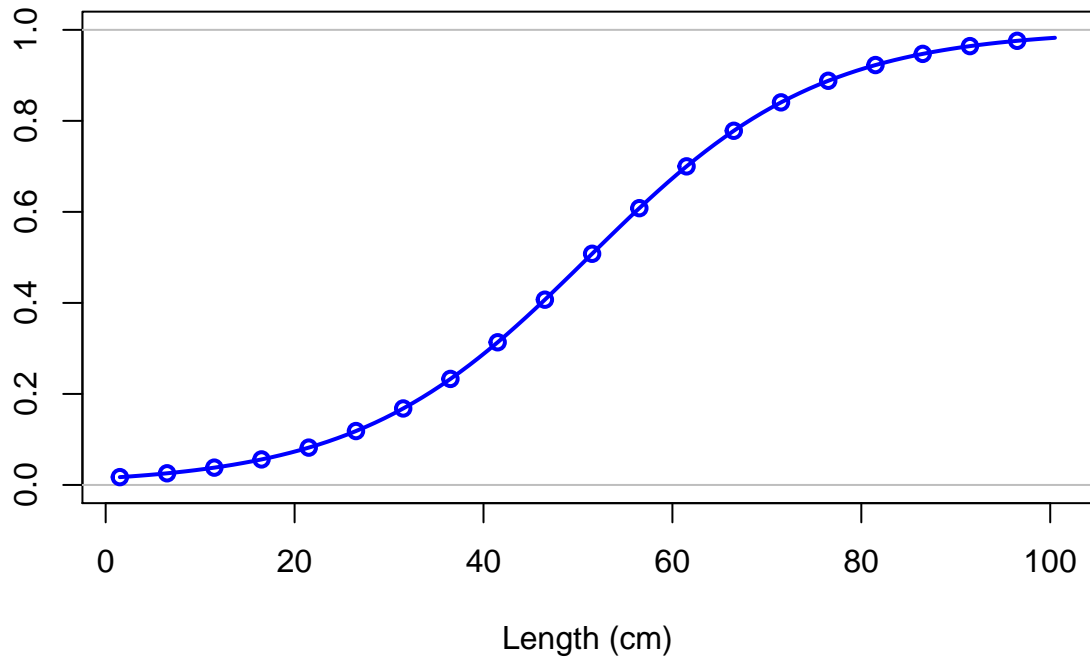
Spawning output



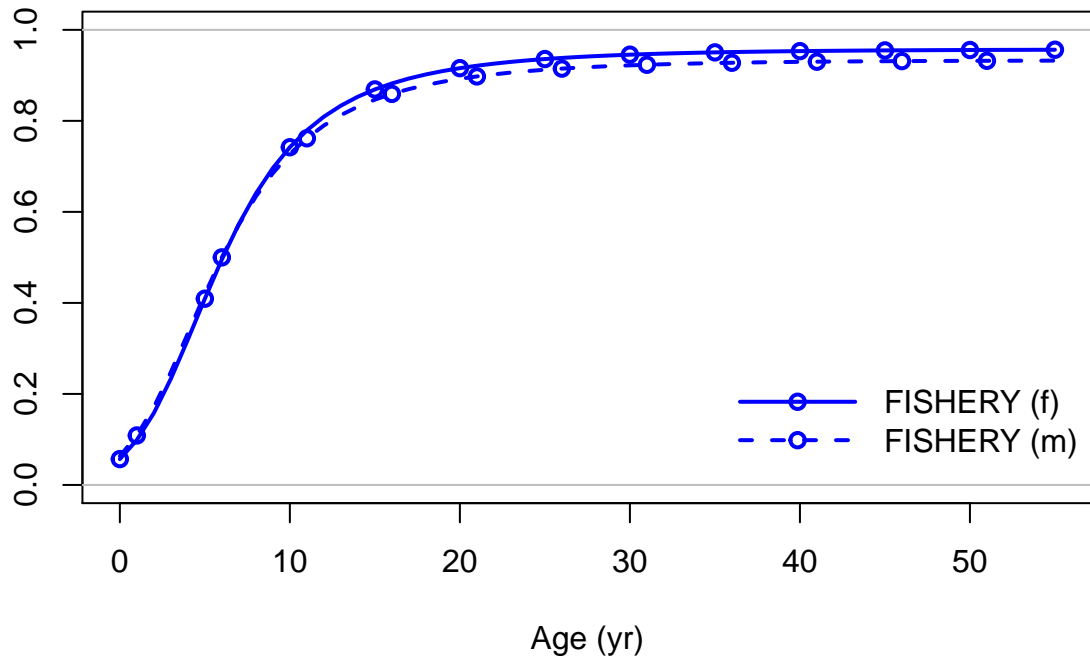
Spawning output

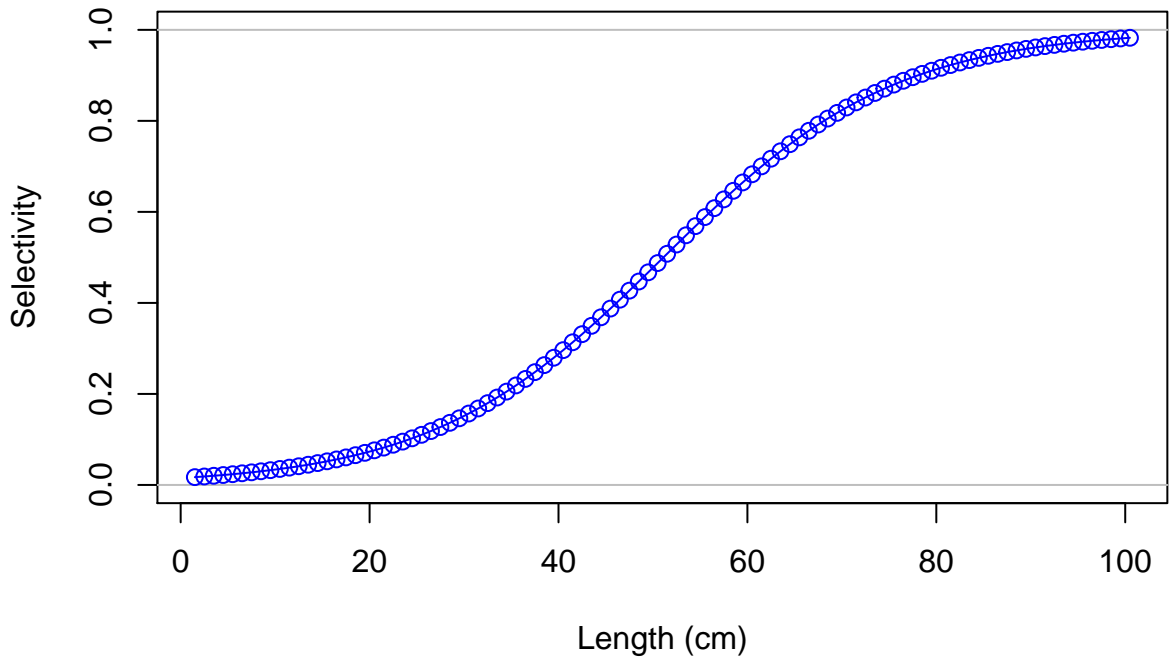


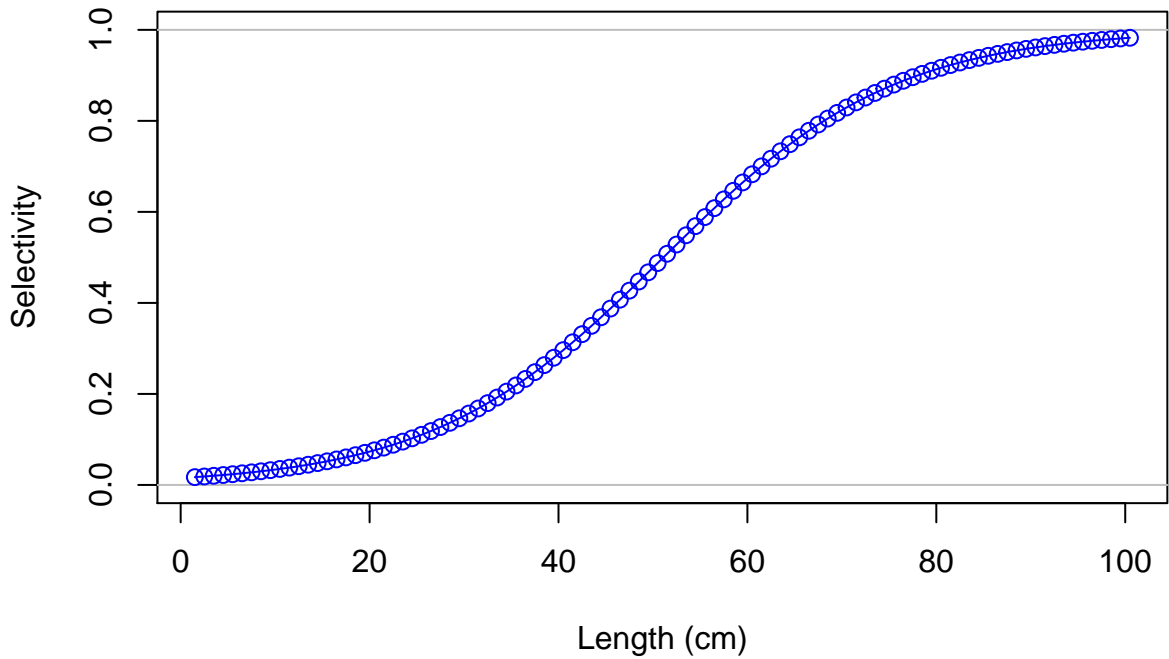
Selectivity

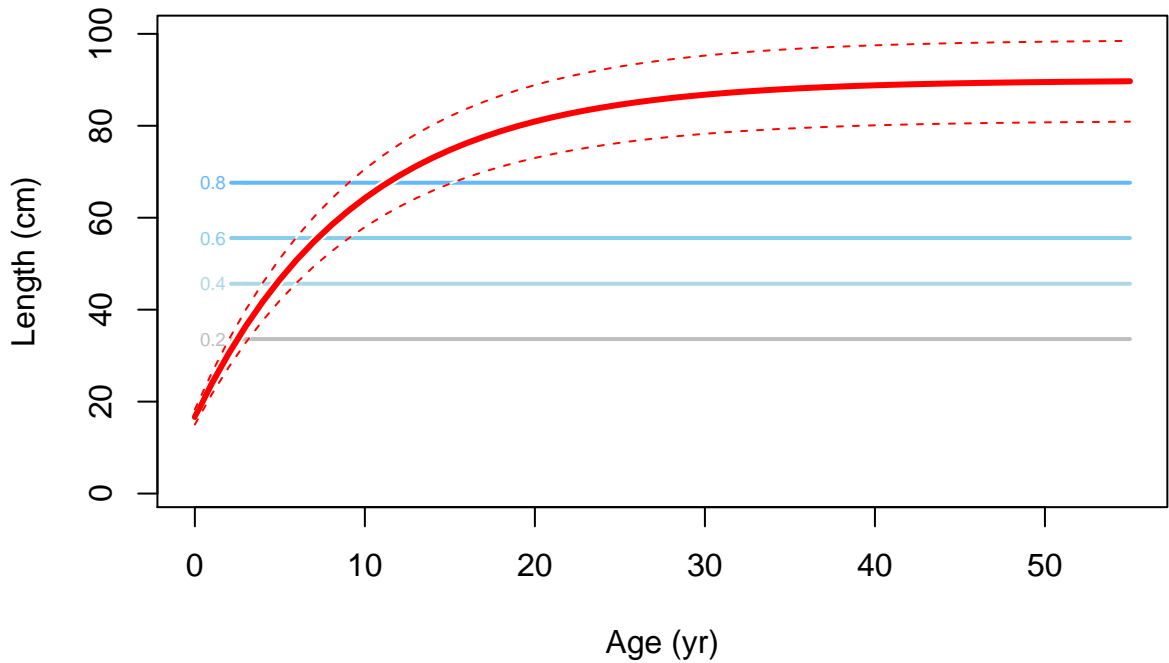


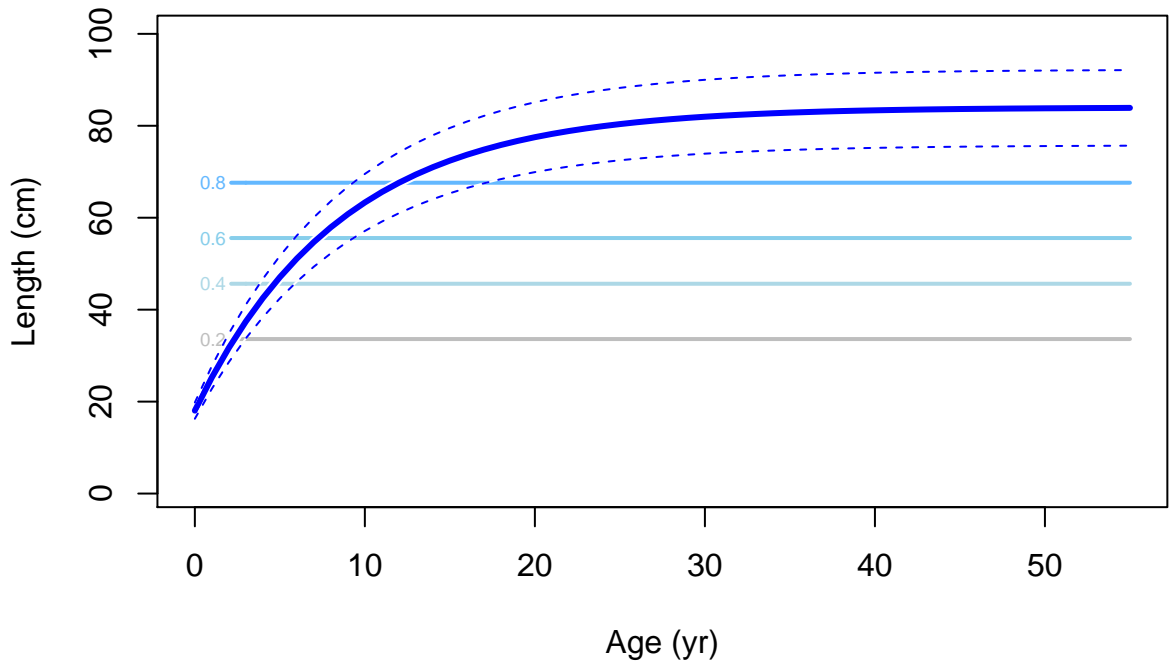
Selectivity

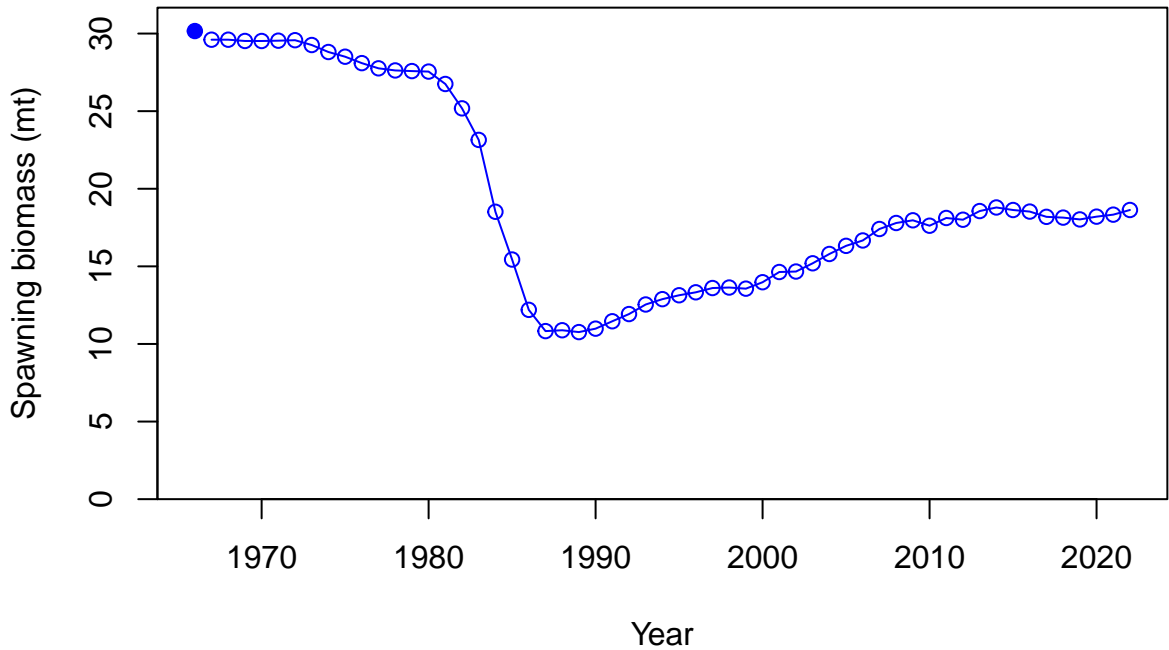




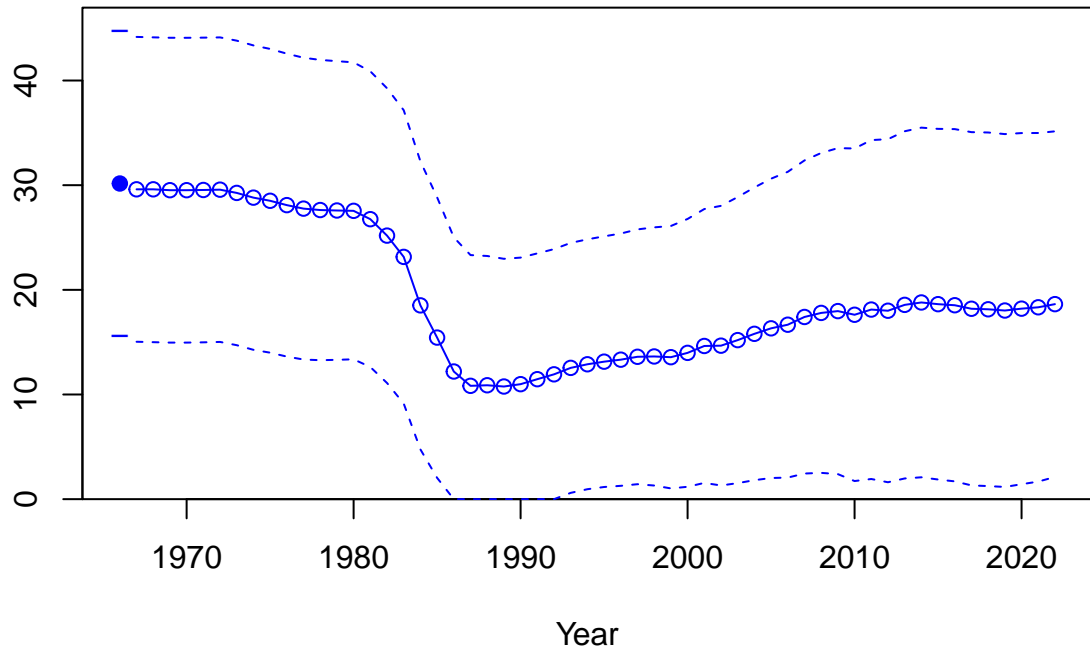




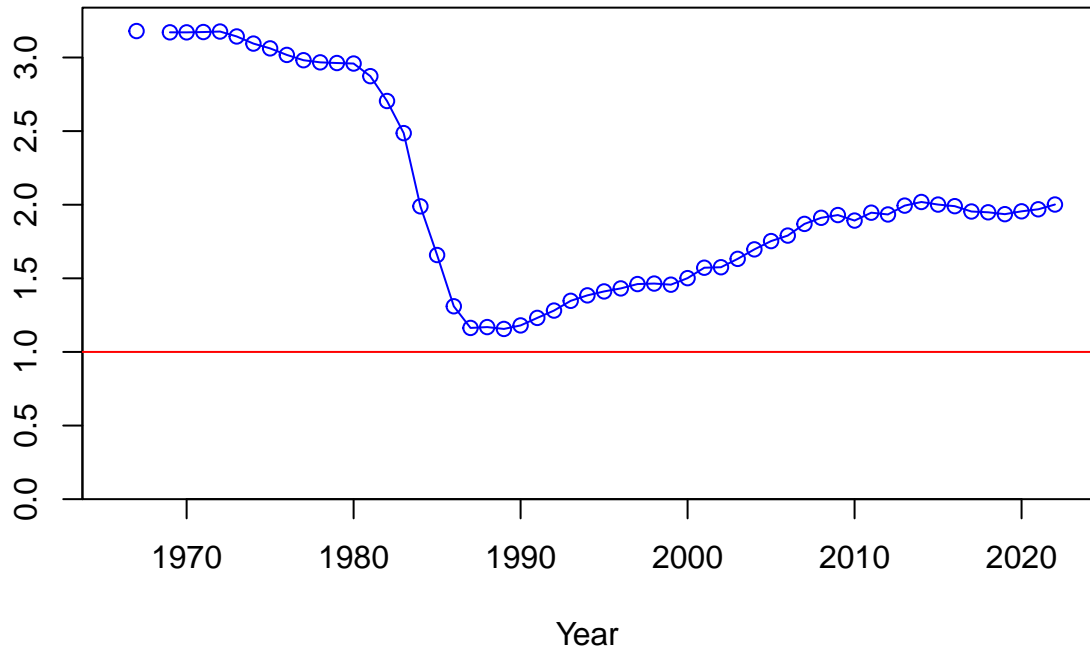




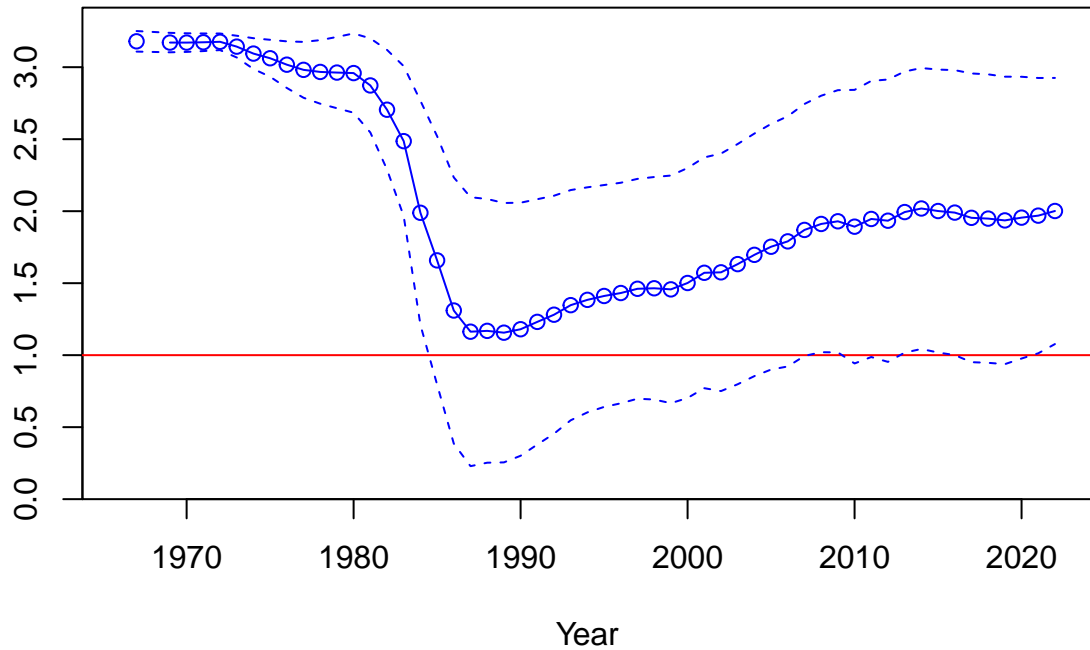
Spawning biomass (mt)

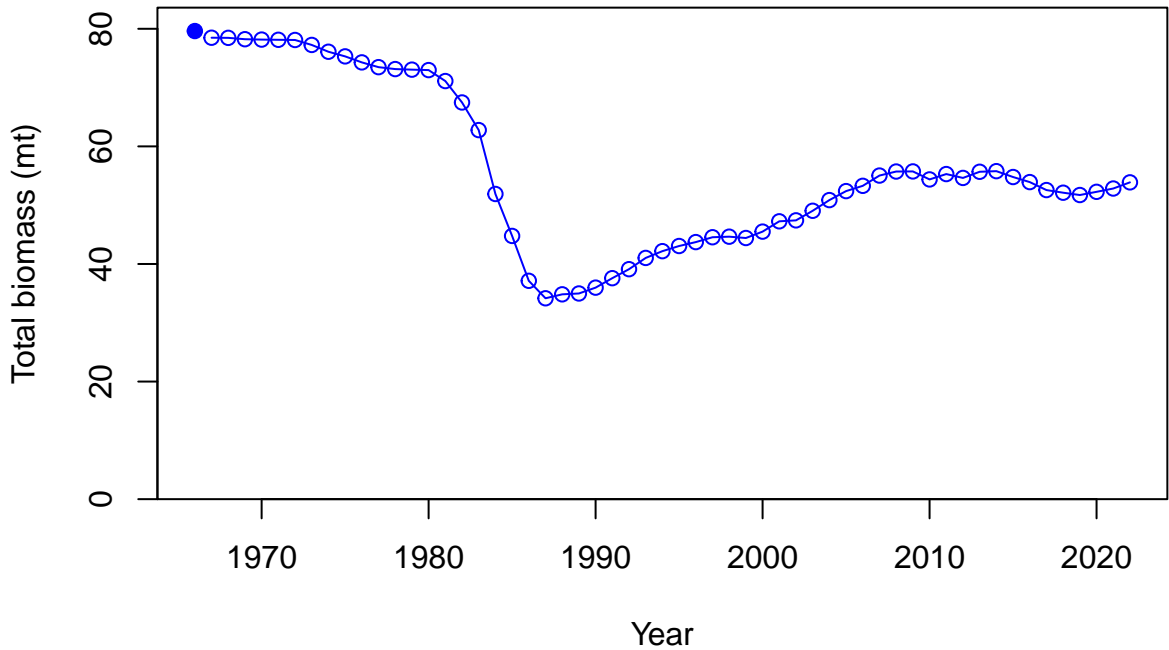


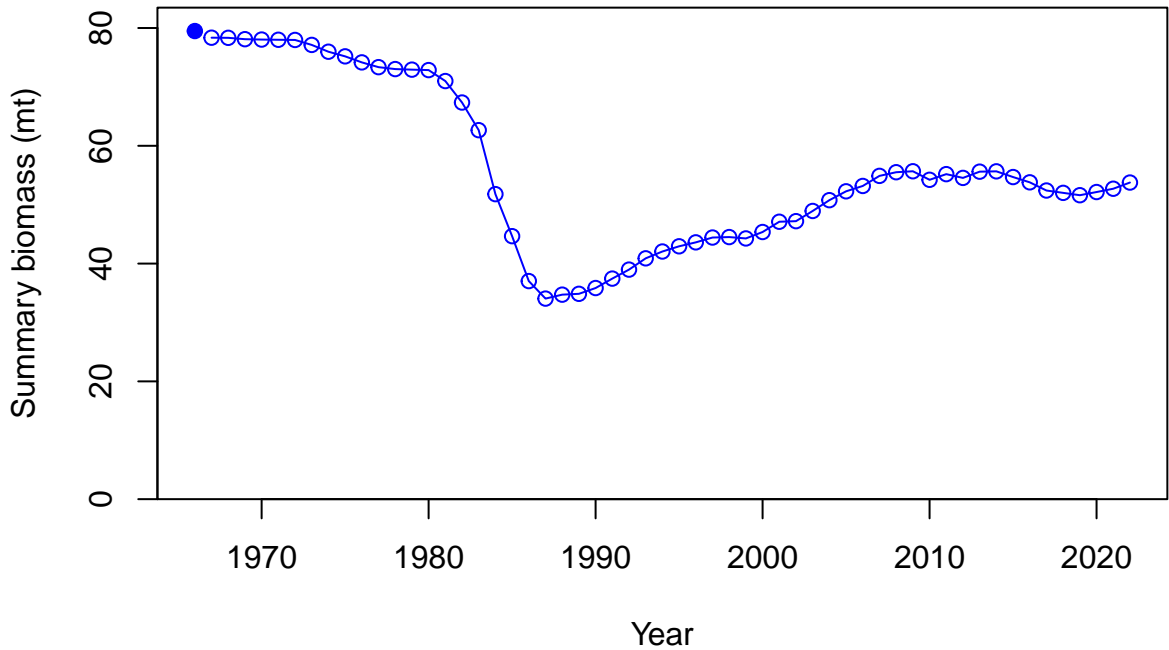
Relative spawning biomass: B/B_{MSY}



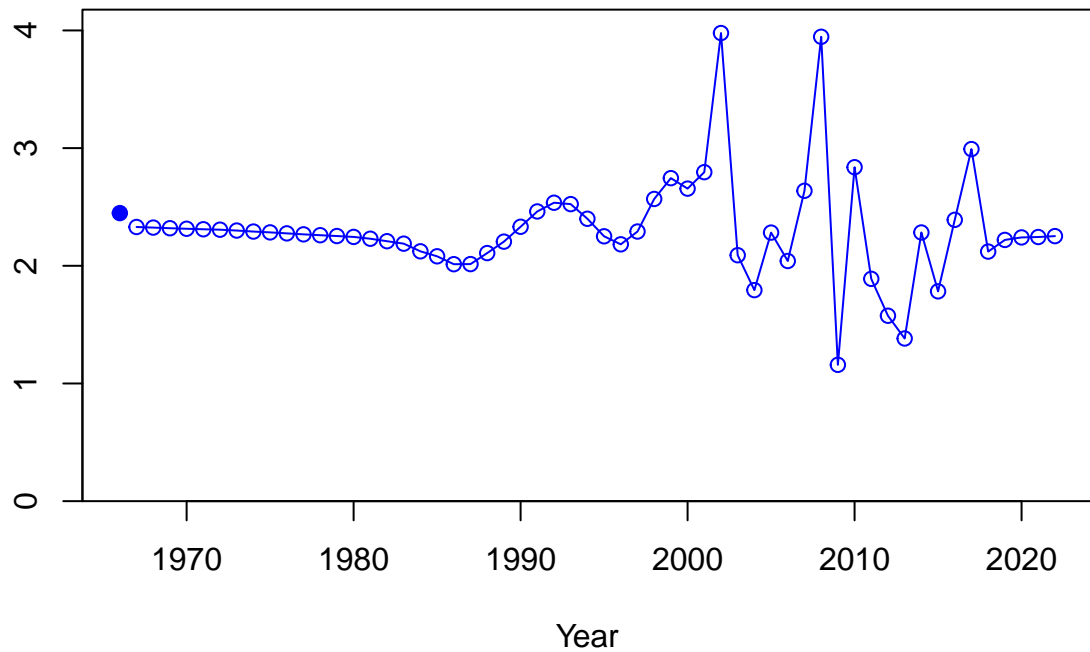
Relative spawning biomass: B/B_{MSY}



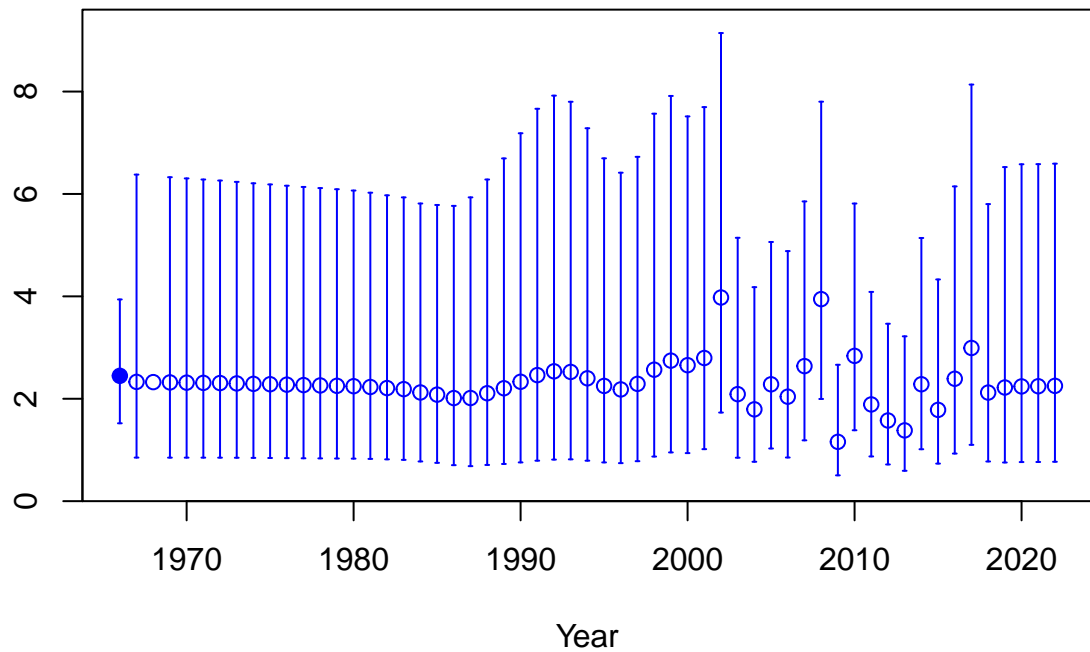




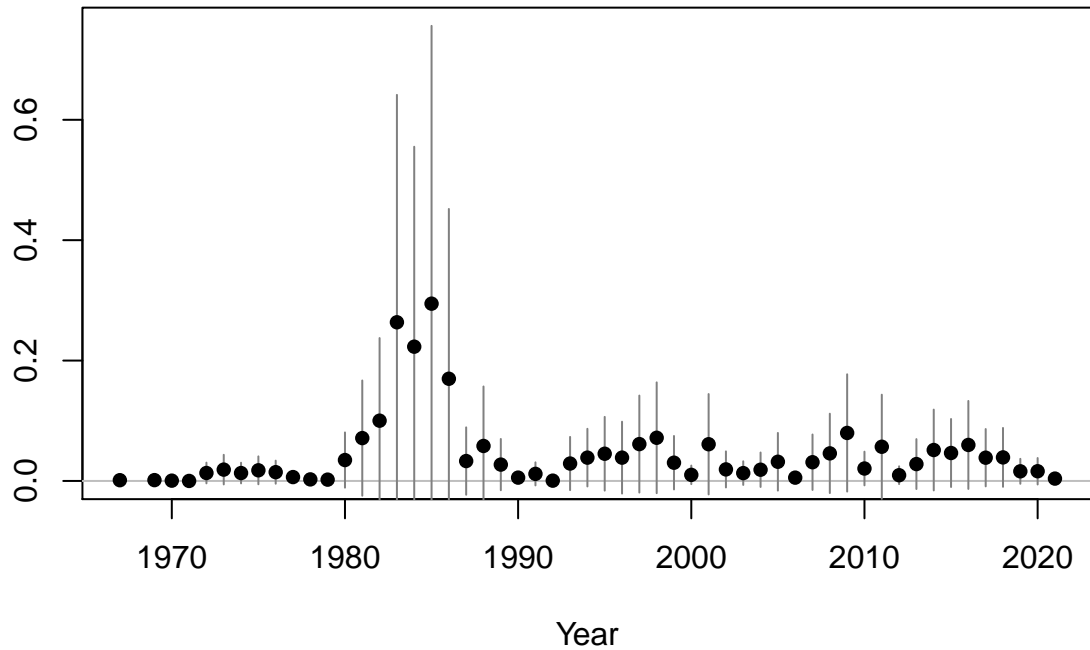
Age-0 recruits (1,000s)

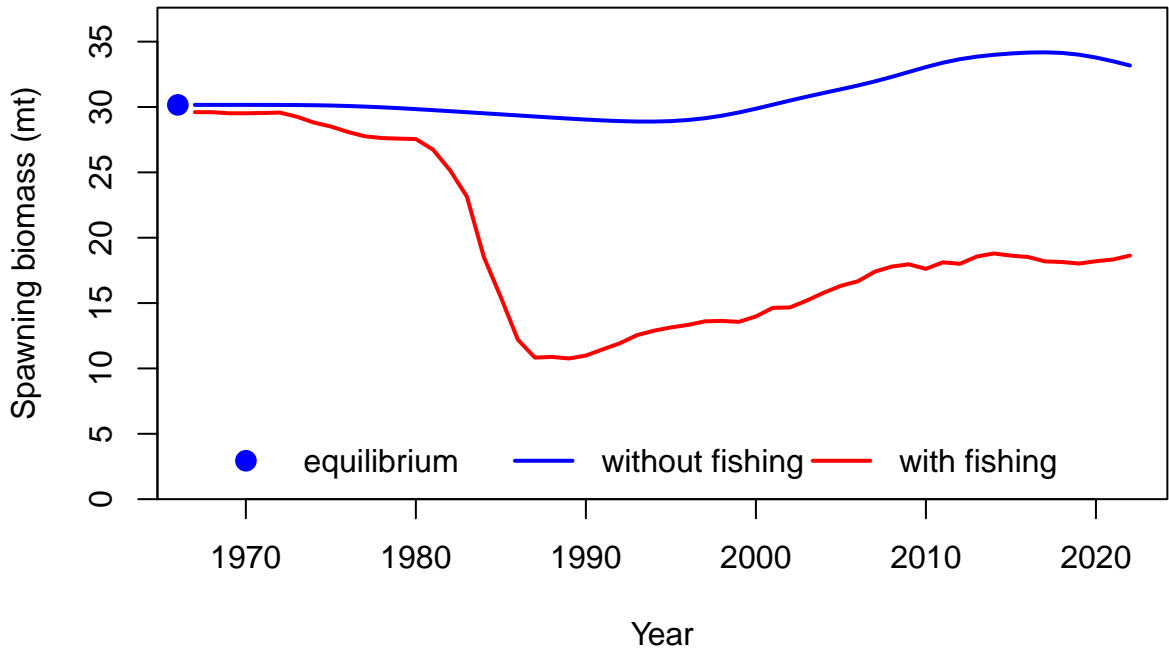


Age-0 recruits (1,000s)

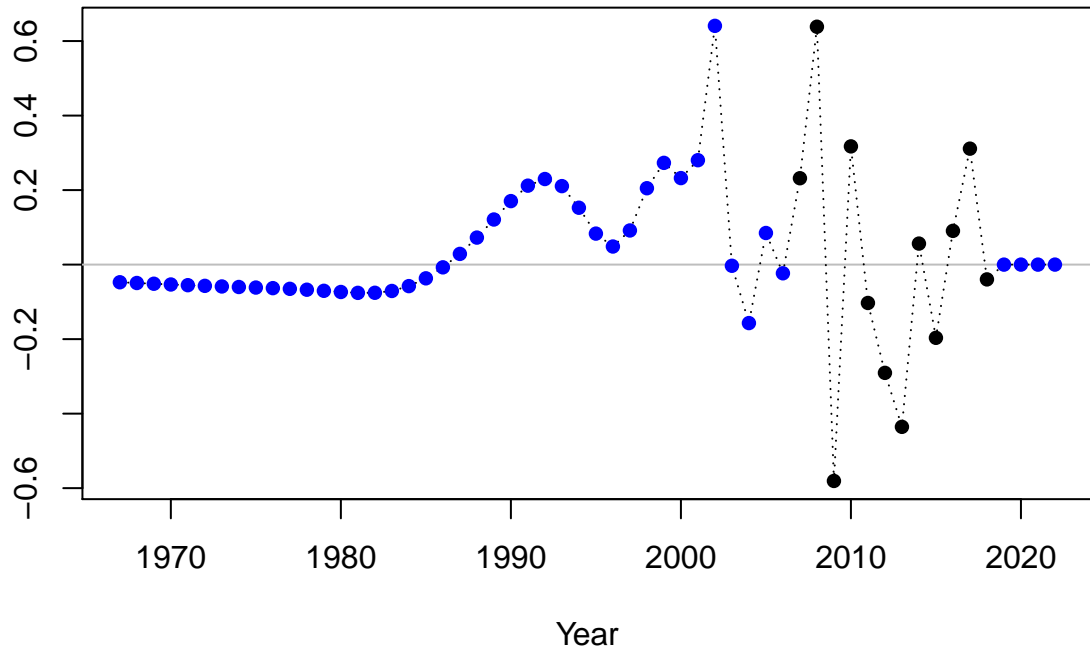


Summary Fishing Mortality





Log recruitment deviation



Log recruitment deviation

-1.0
-0.5
0.0
0.5
1.0

1970

1980

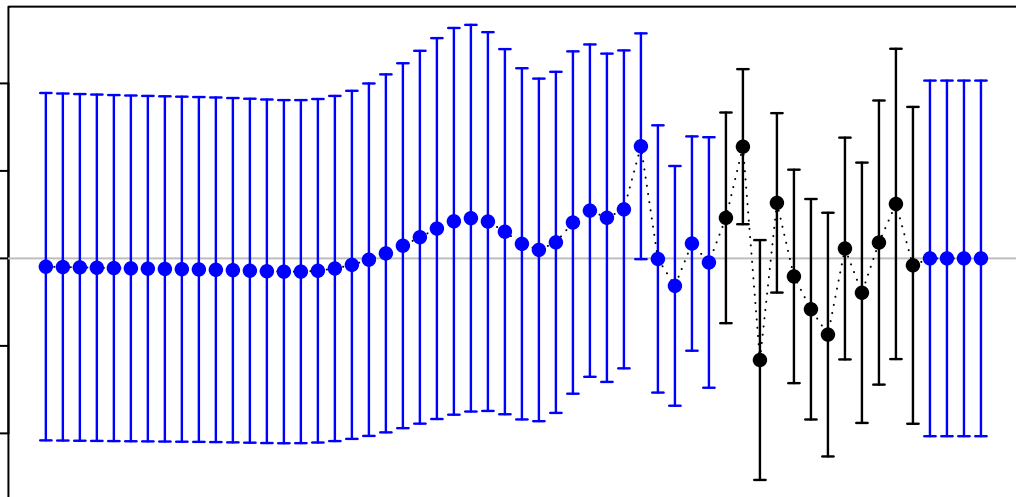
1990

2000

2010

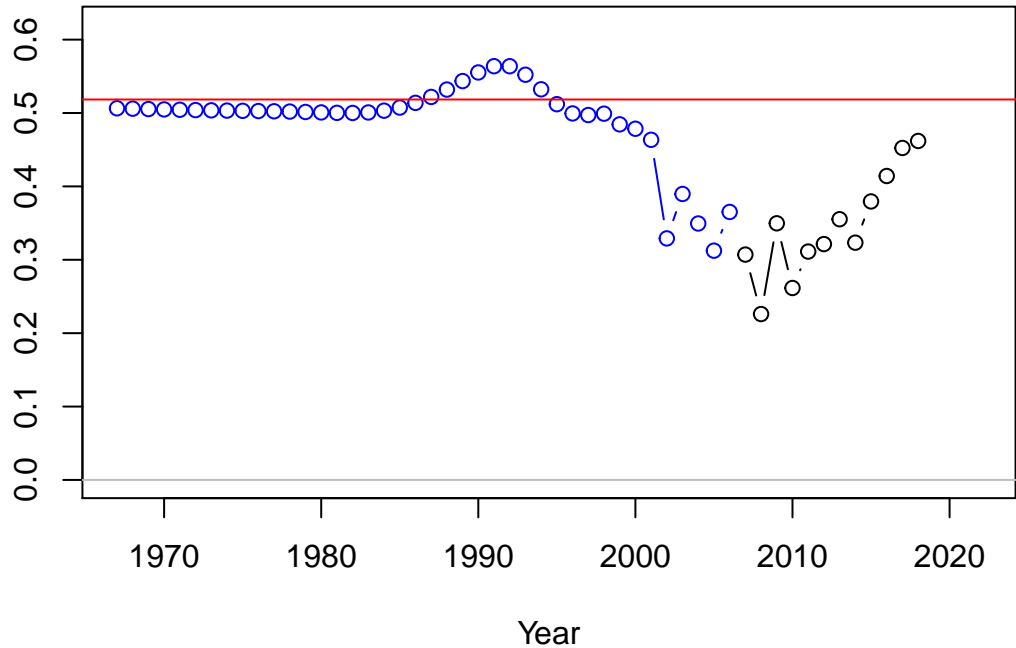
2020

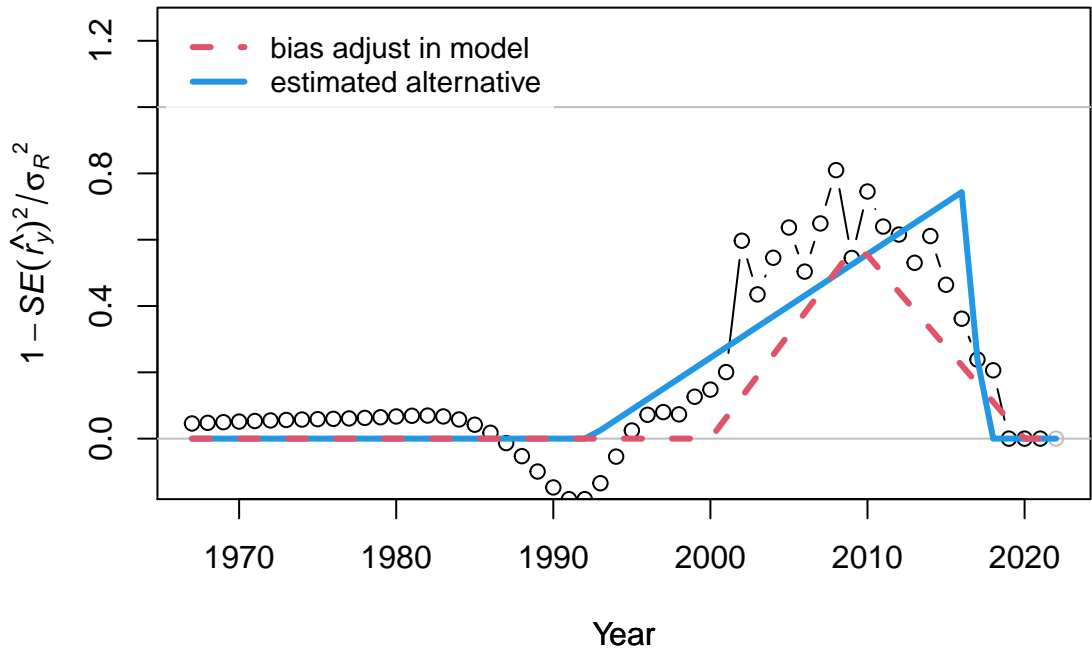
Year

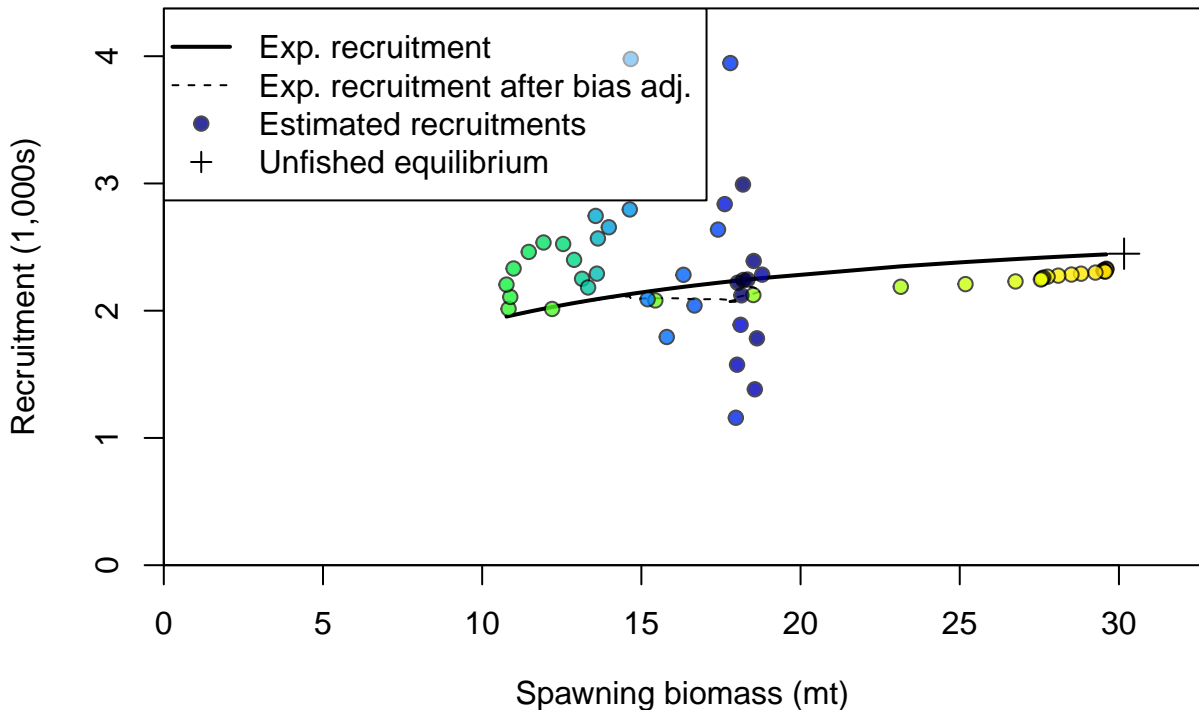


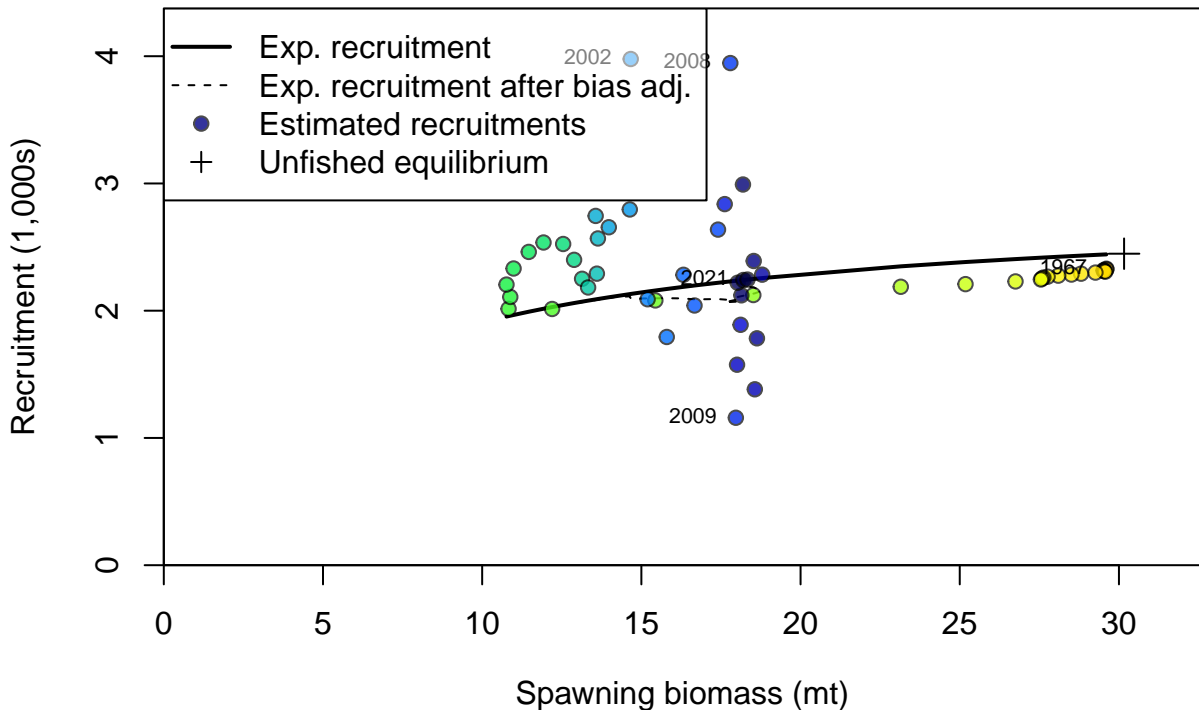
Recruitment deviation variance

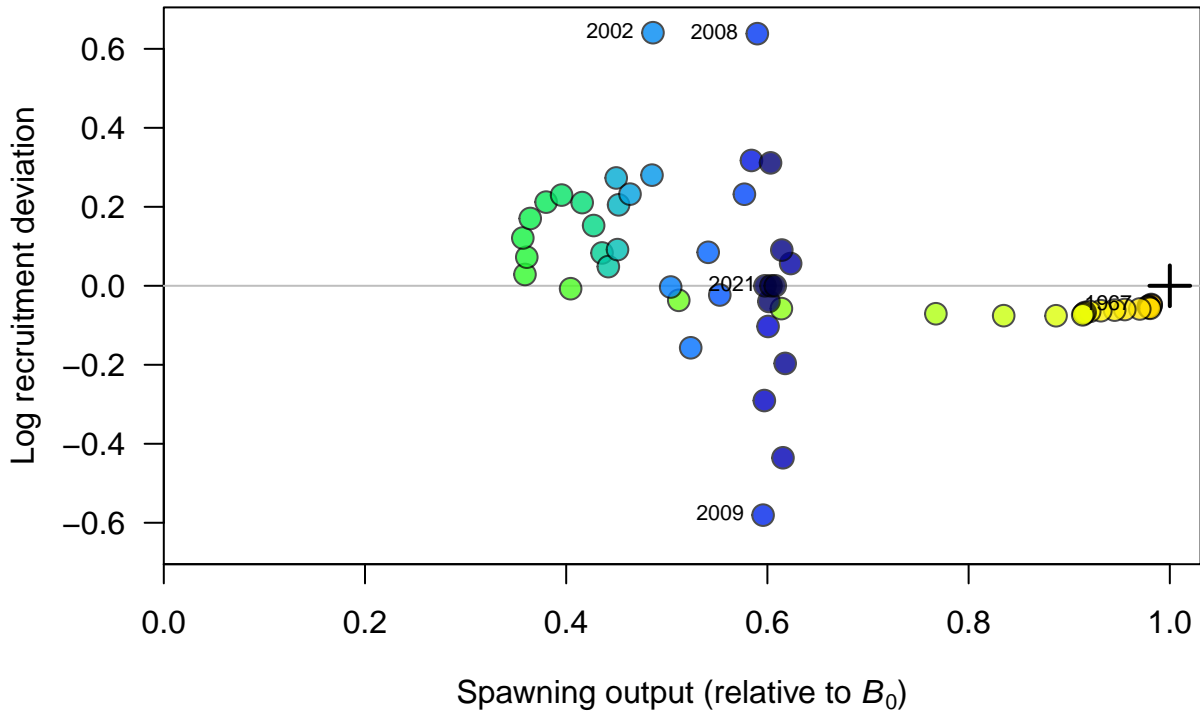
Asymptotic standard error estimate

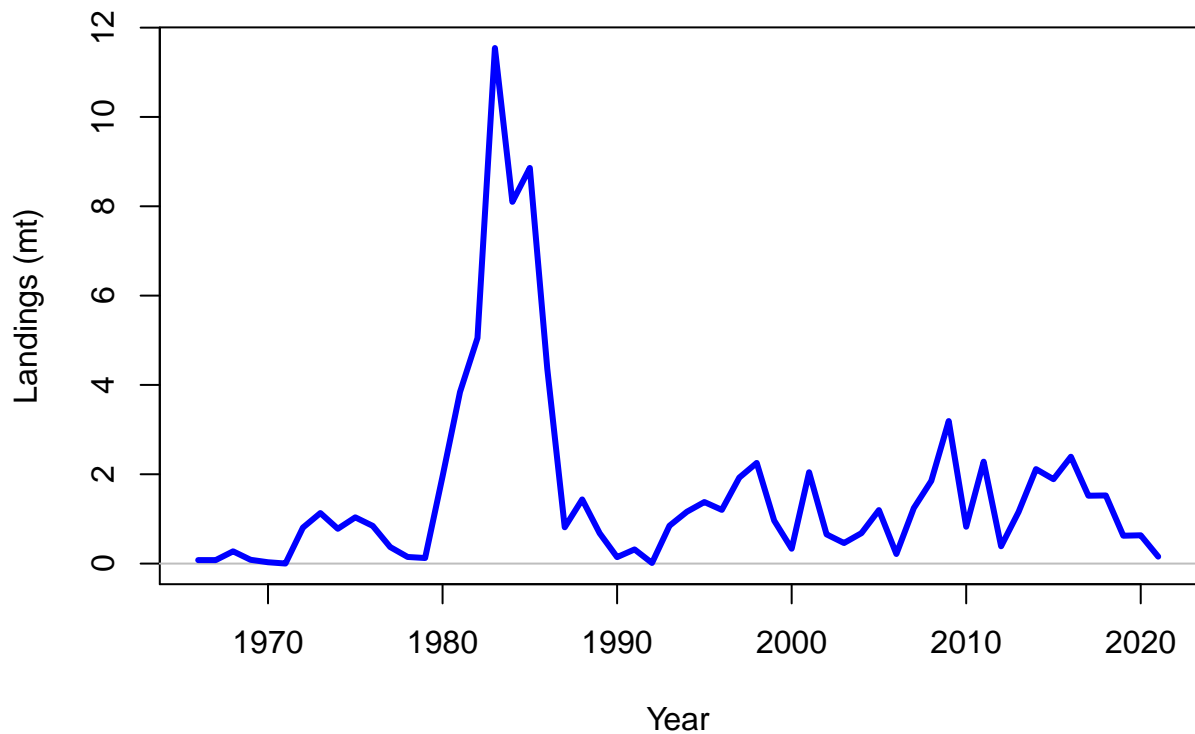


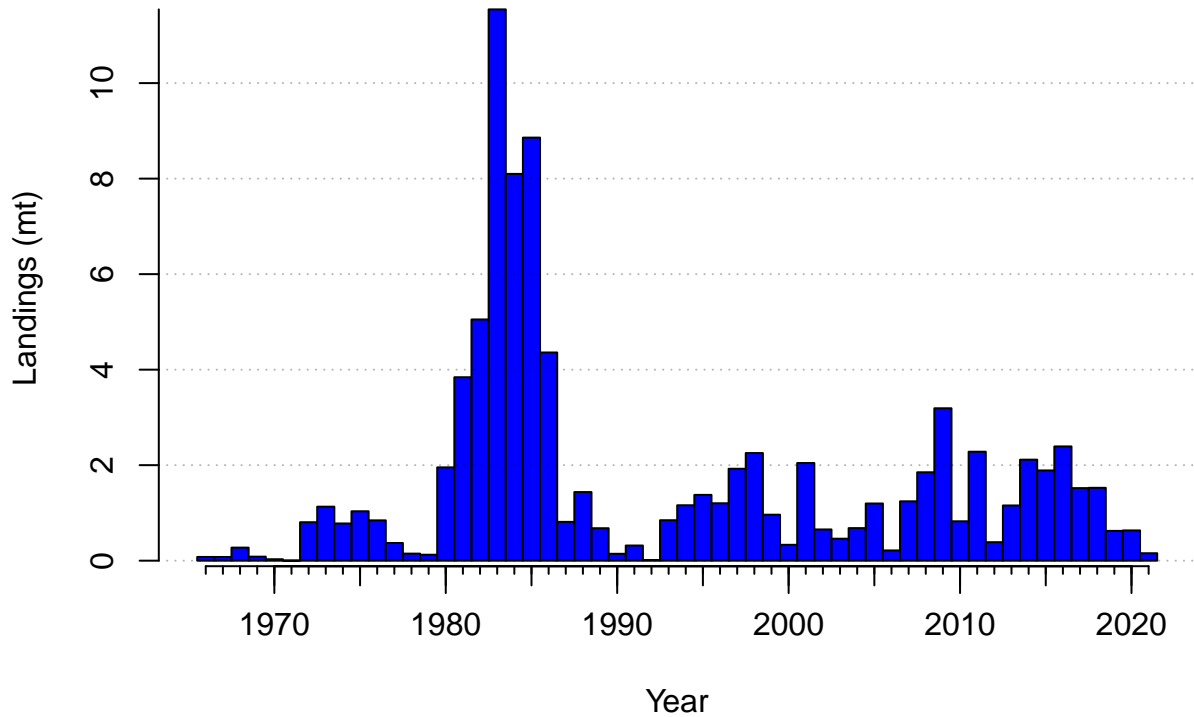


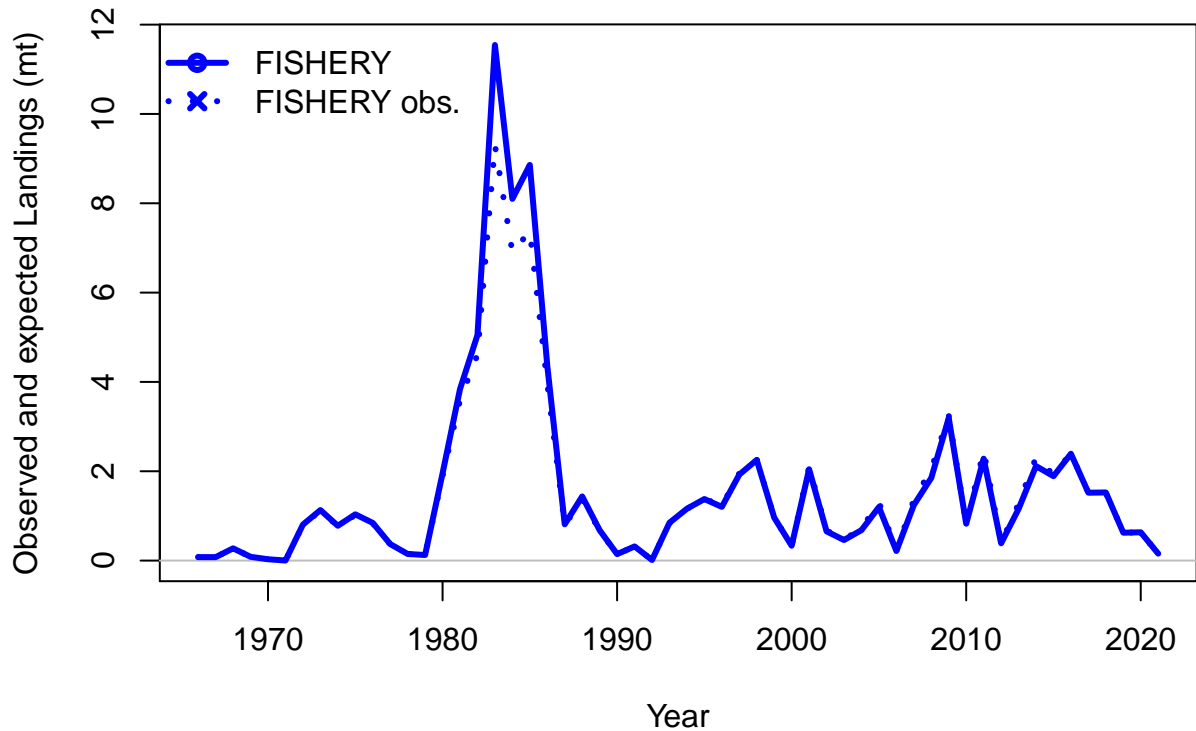


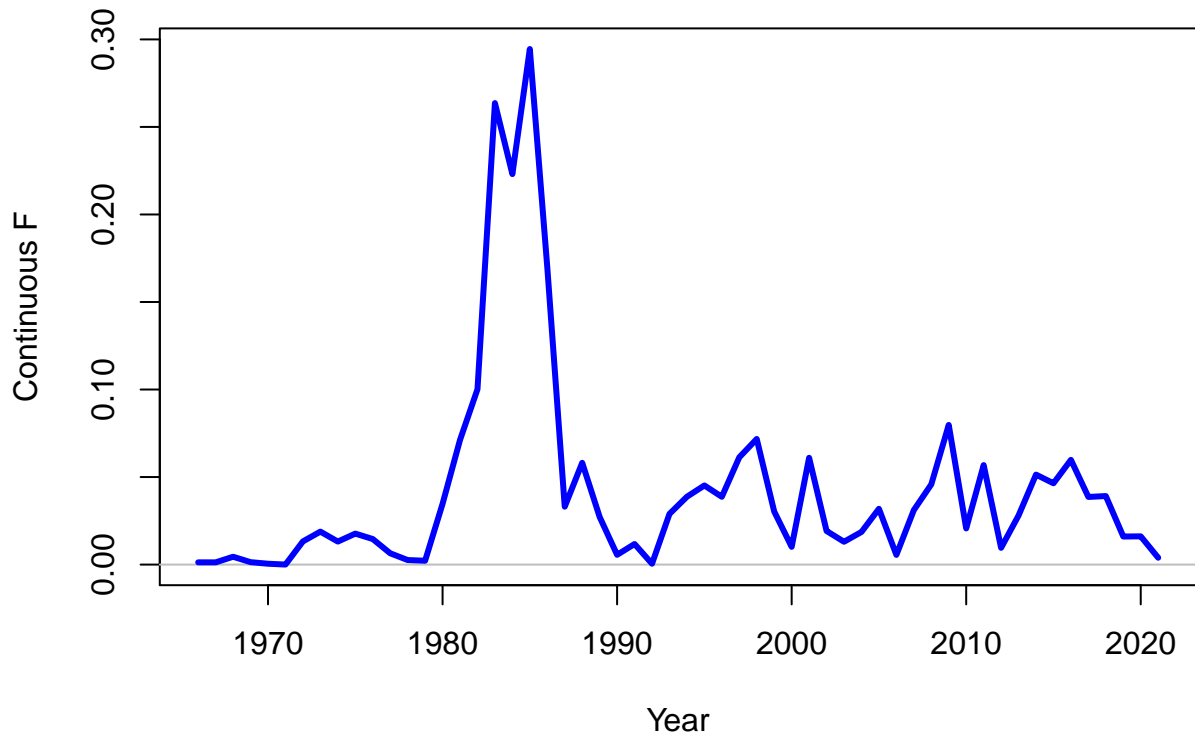




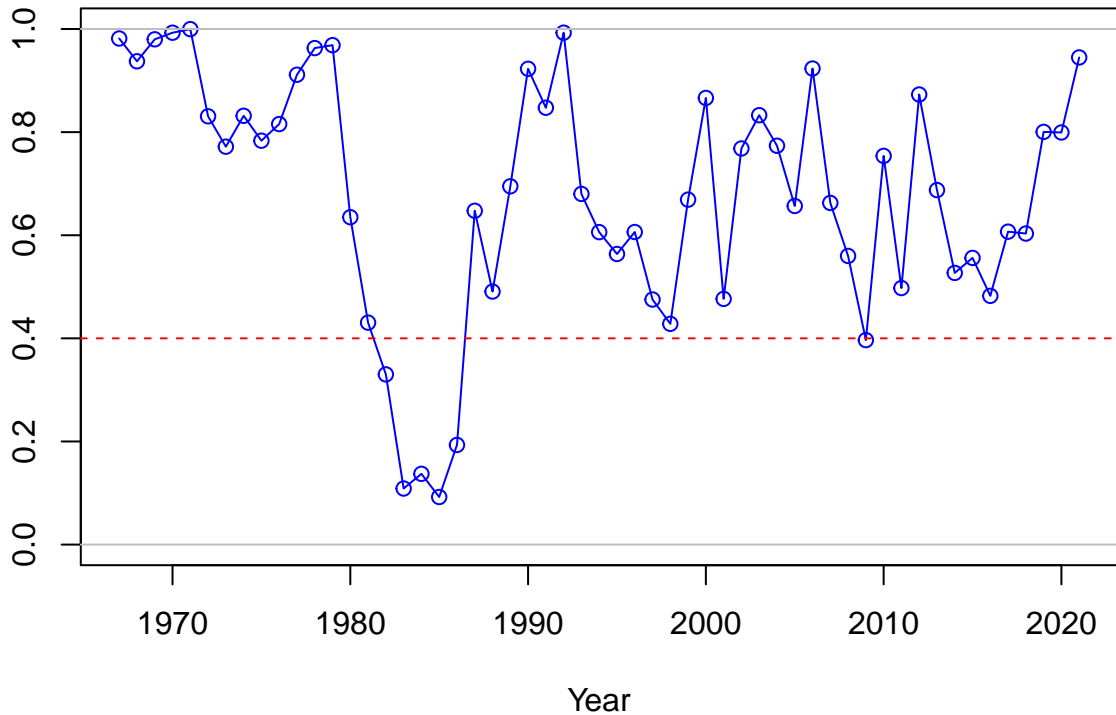


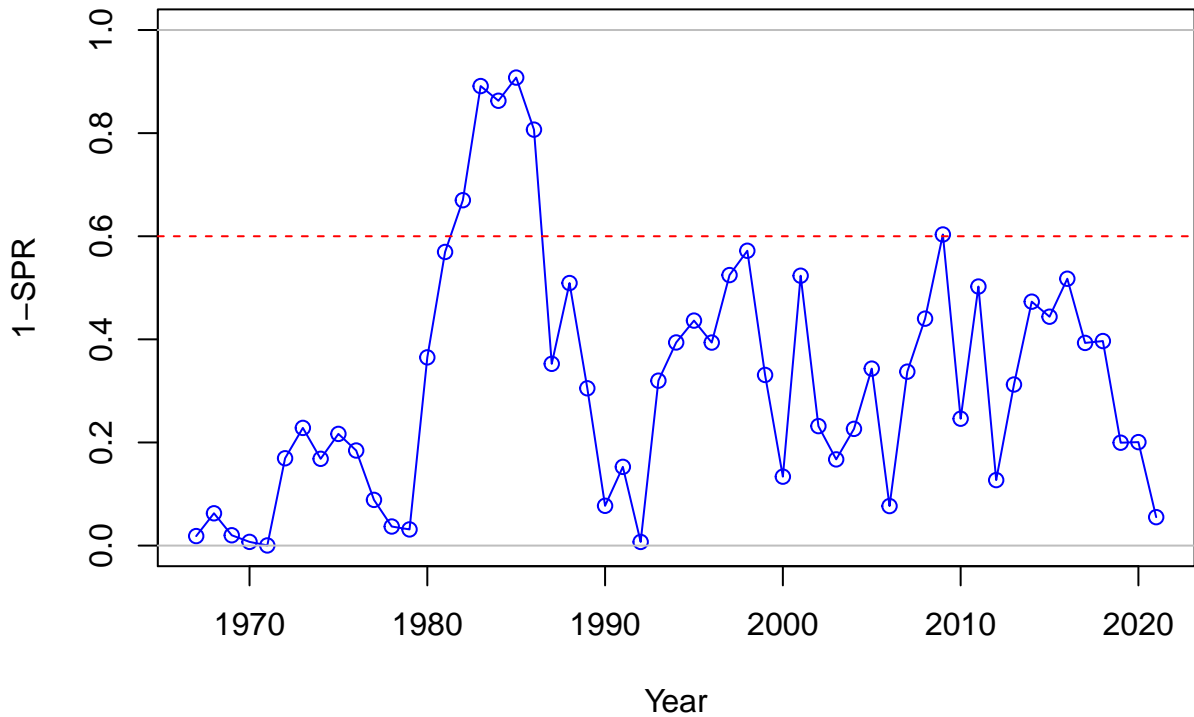




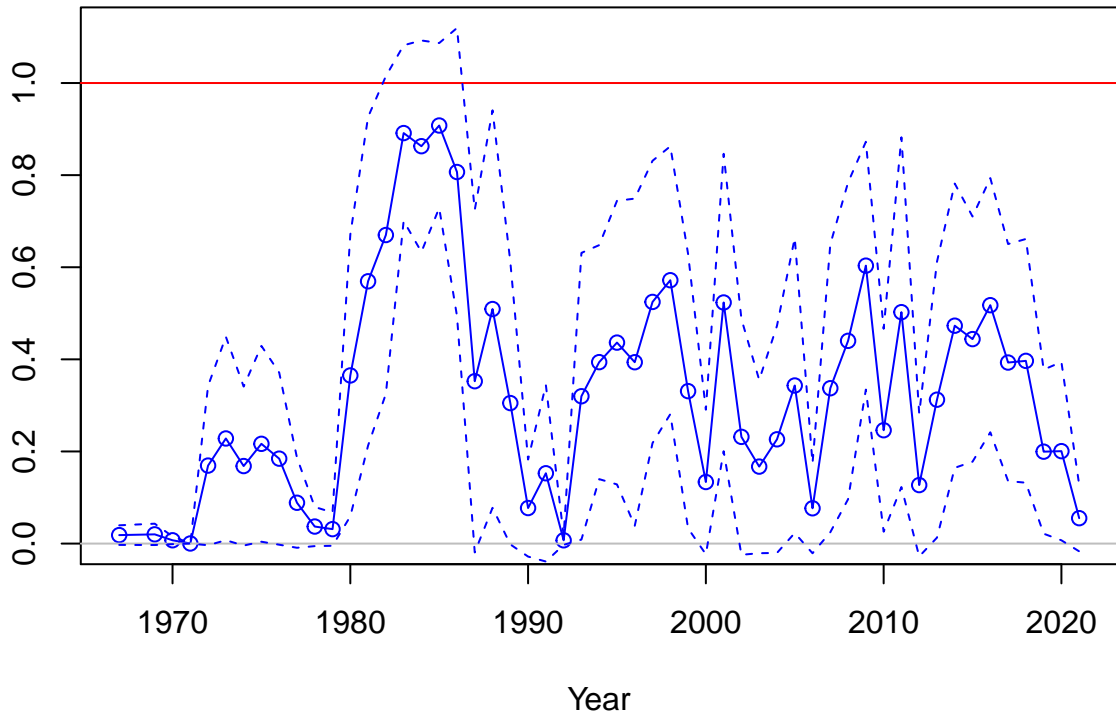


SPR

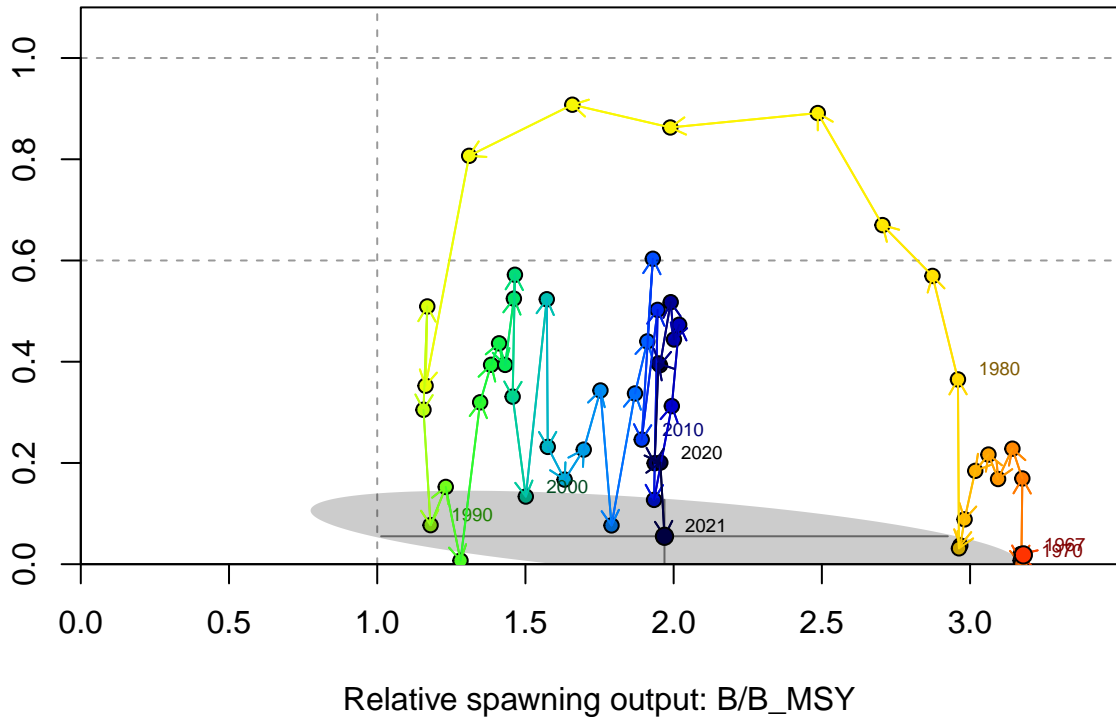




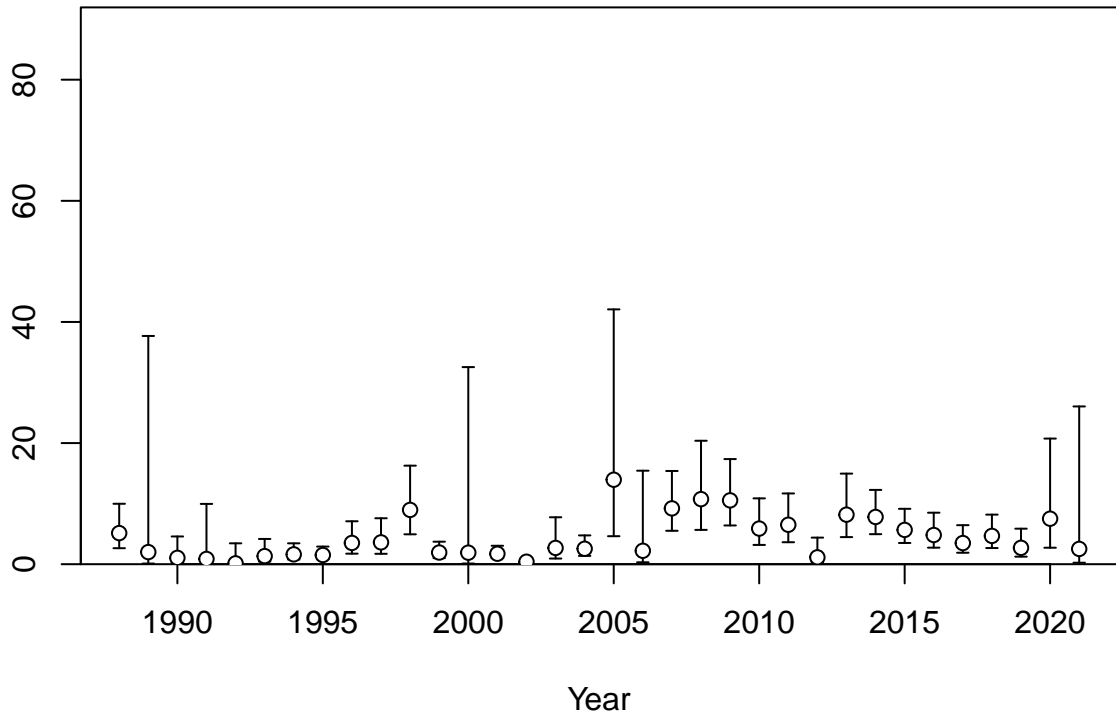
Fishing intensity: 1-SPR

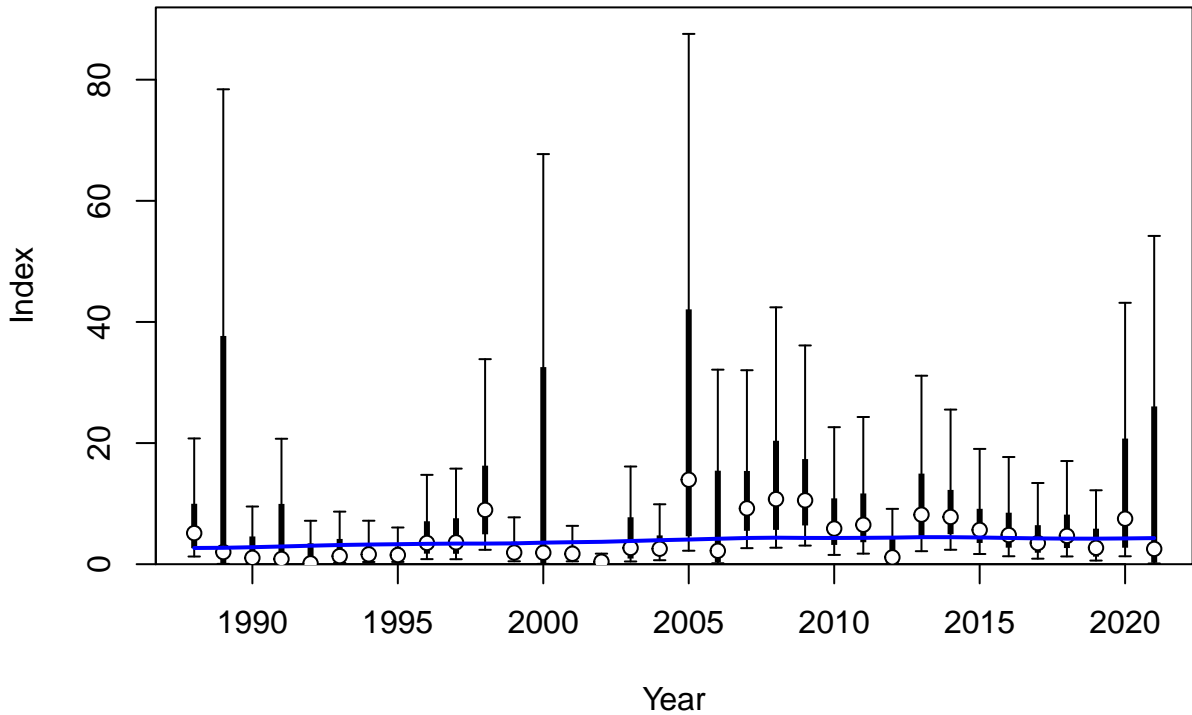


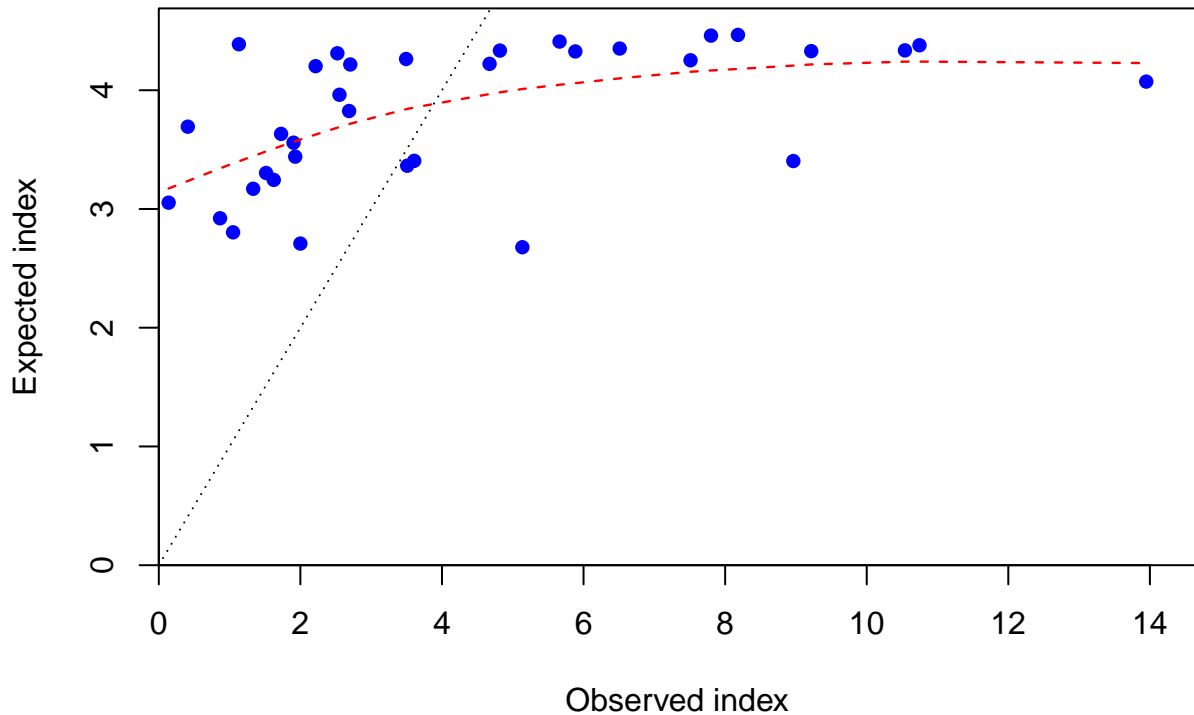
Fishing intensity: 1-SPR



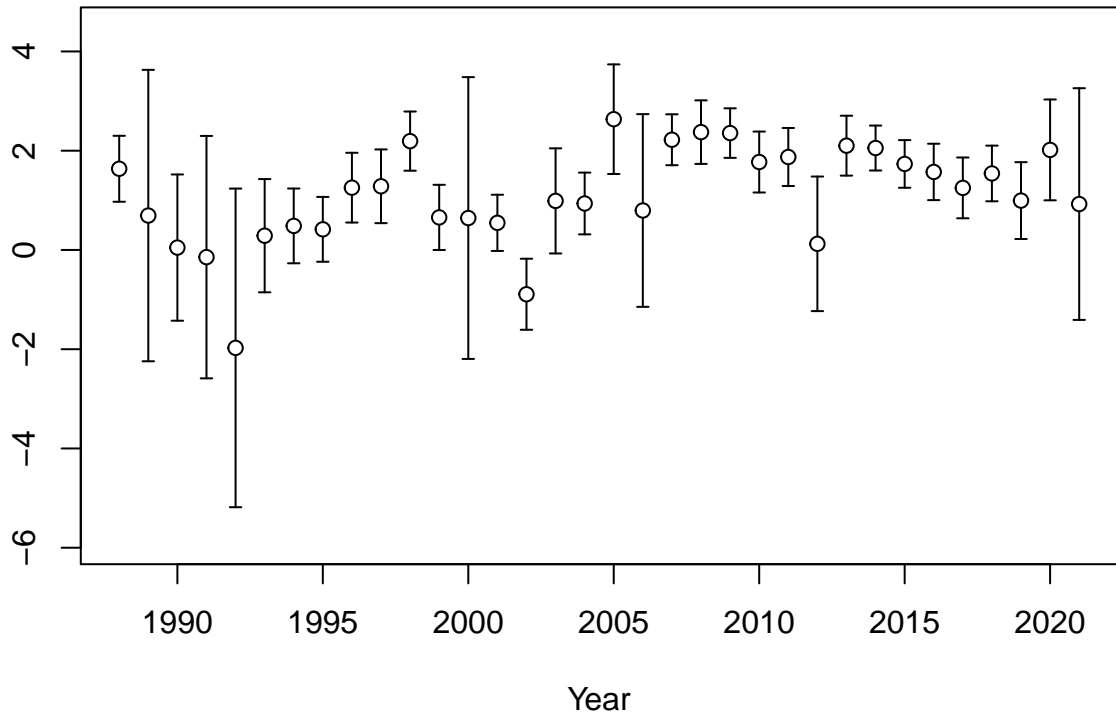
Index



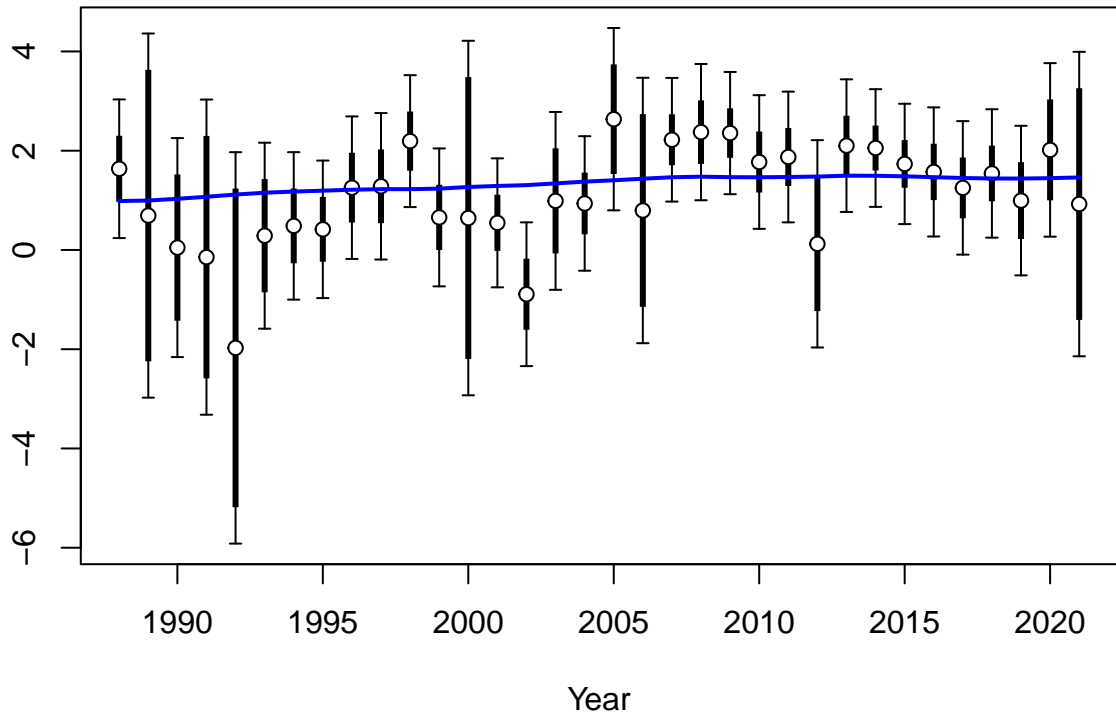


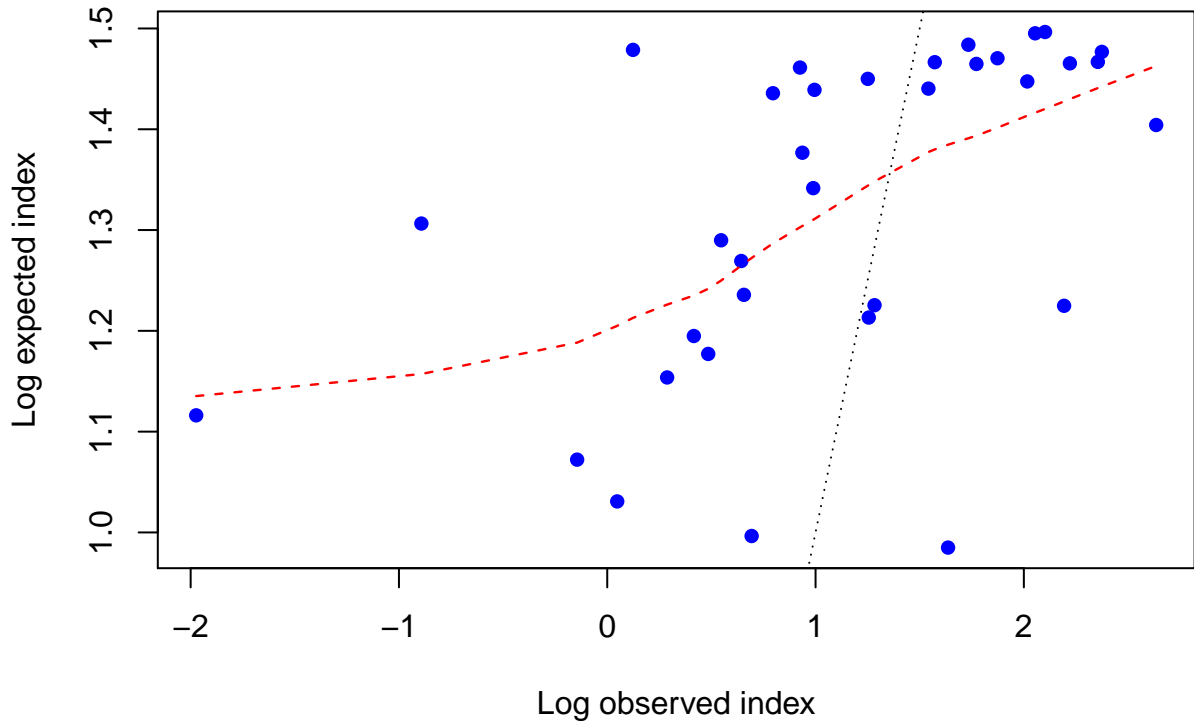


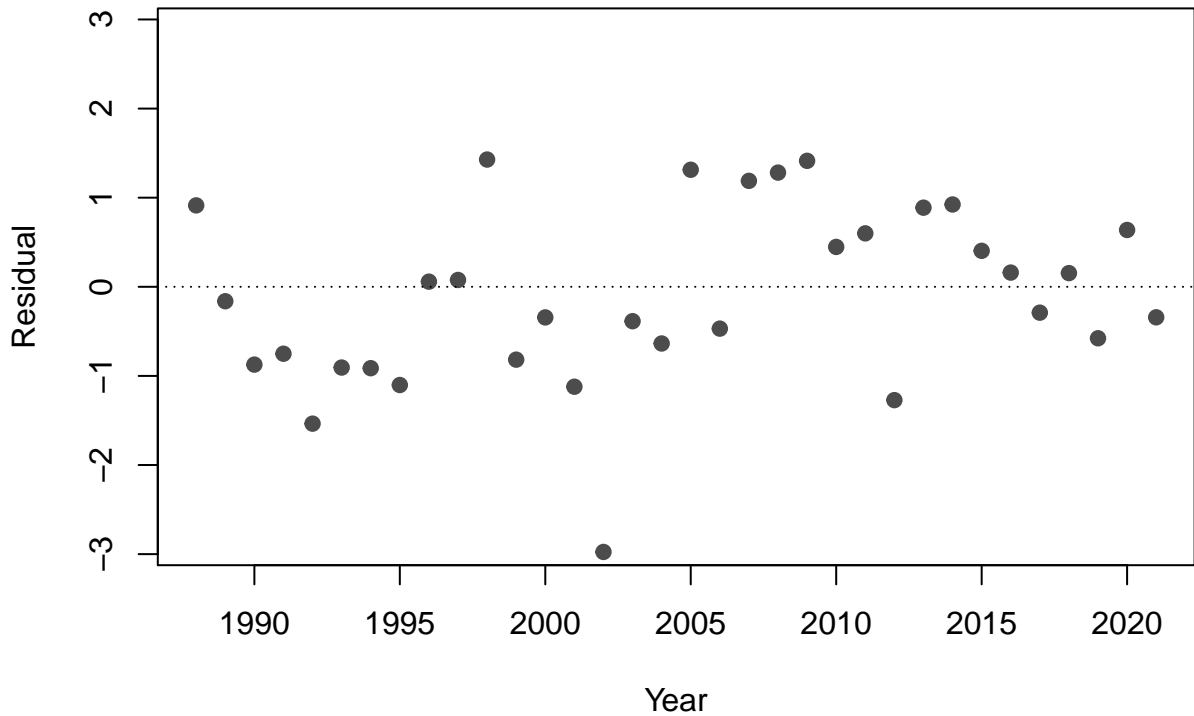
Log index

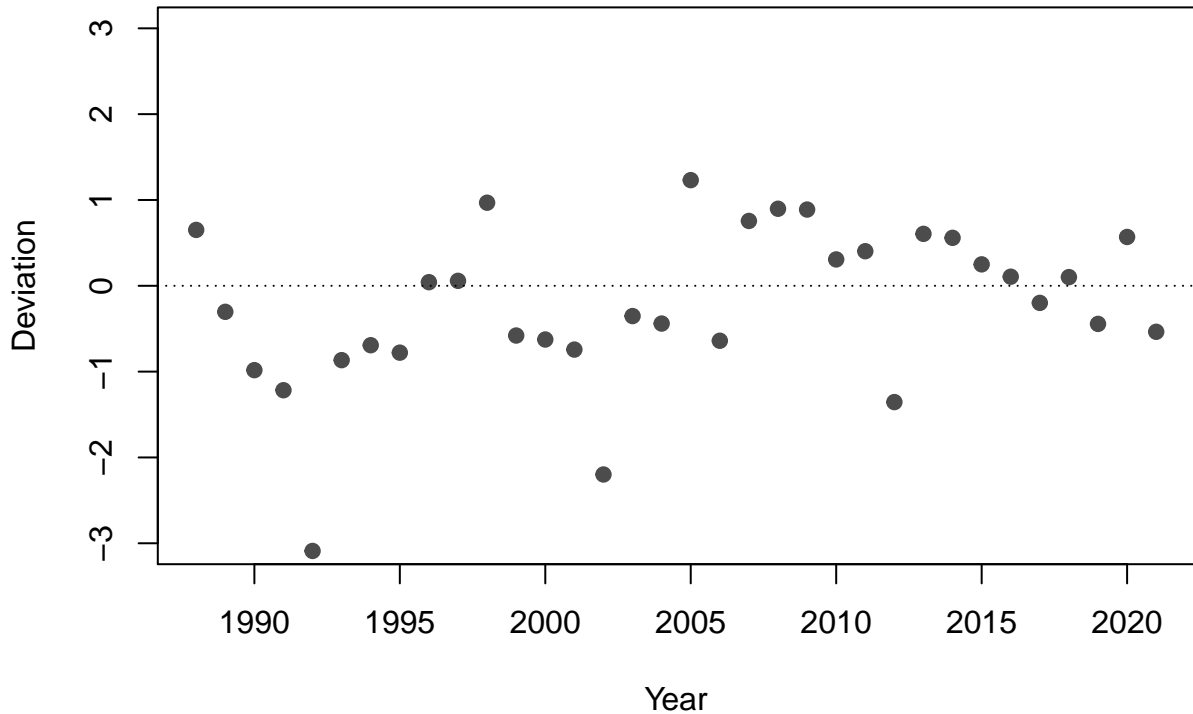


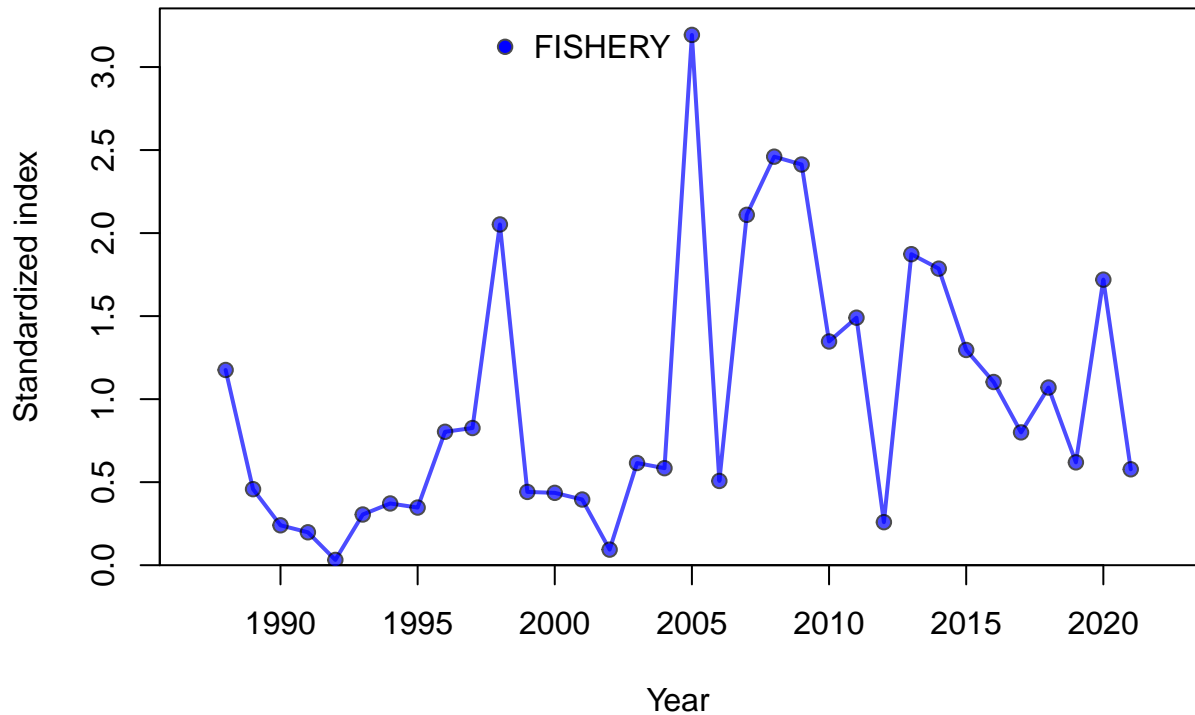
Log index

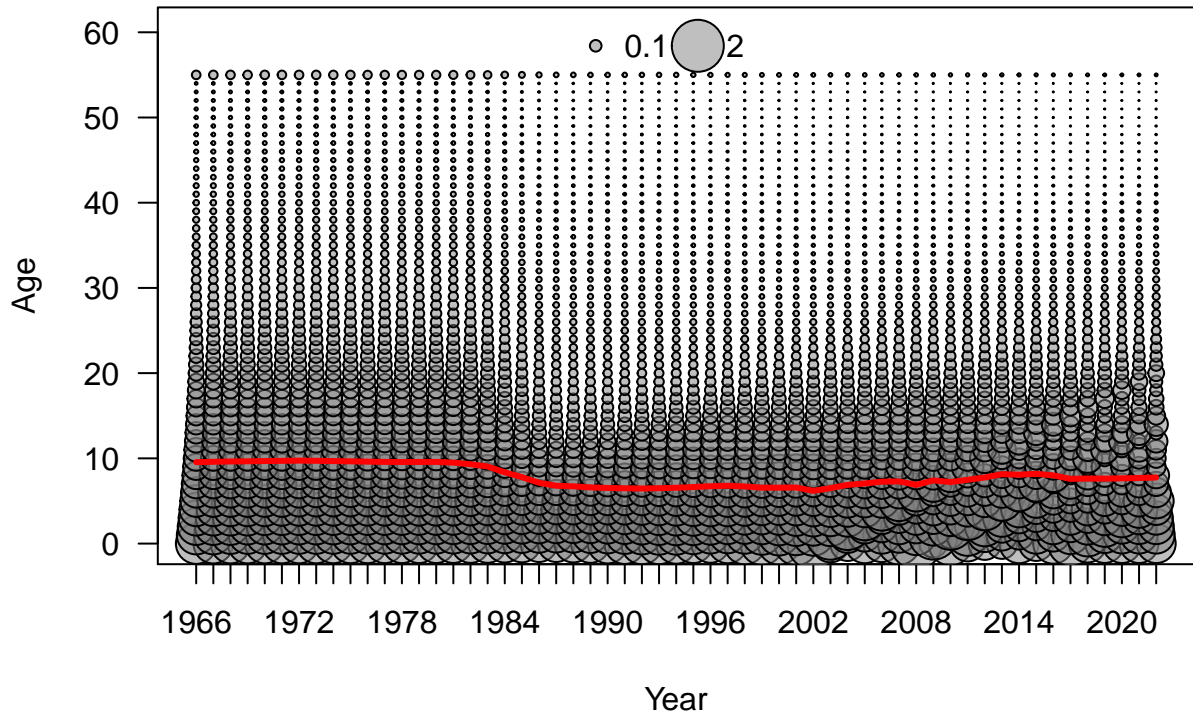


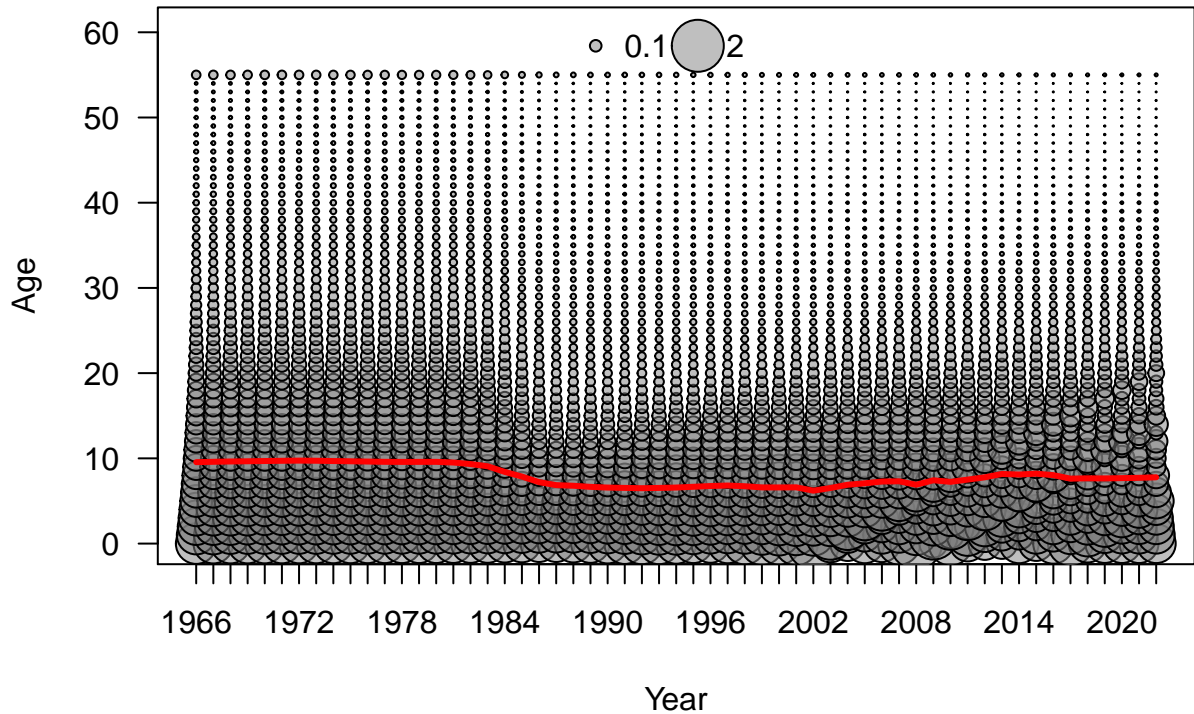




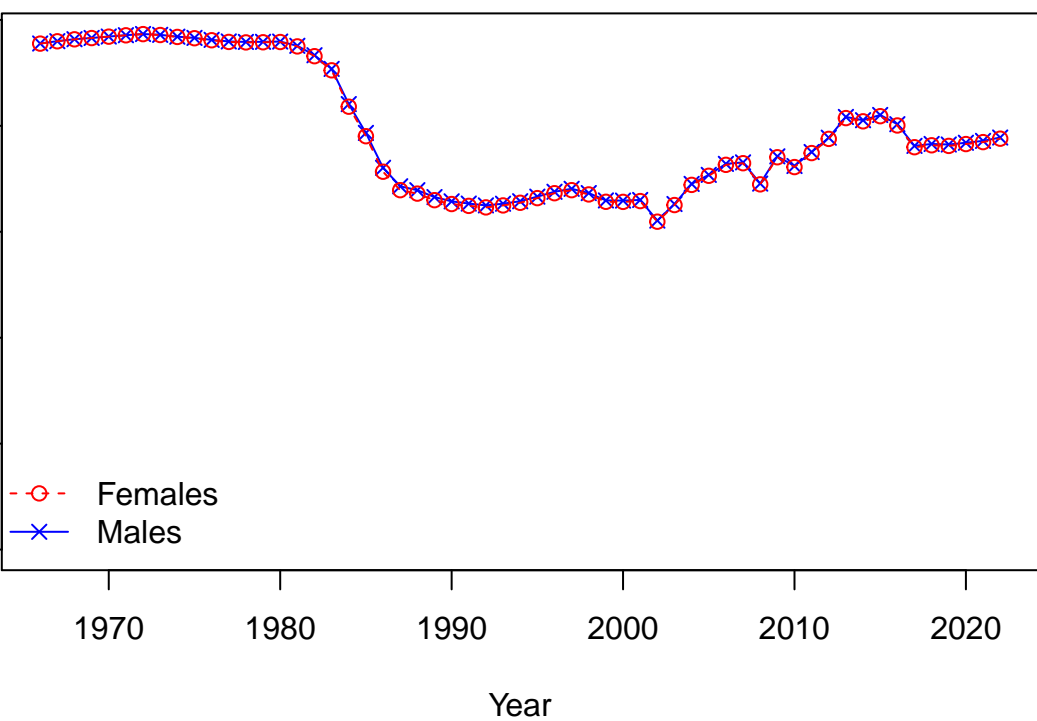


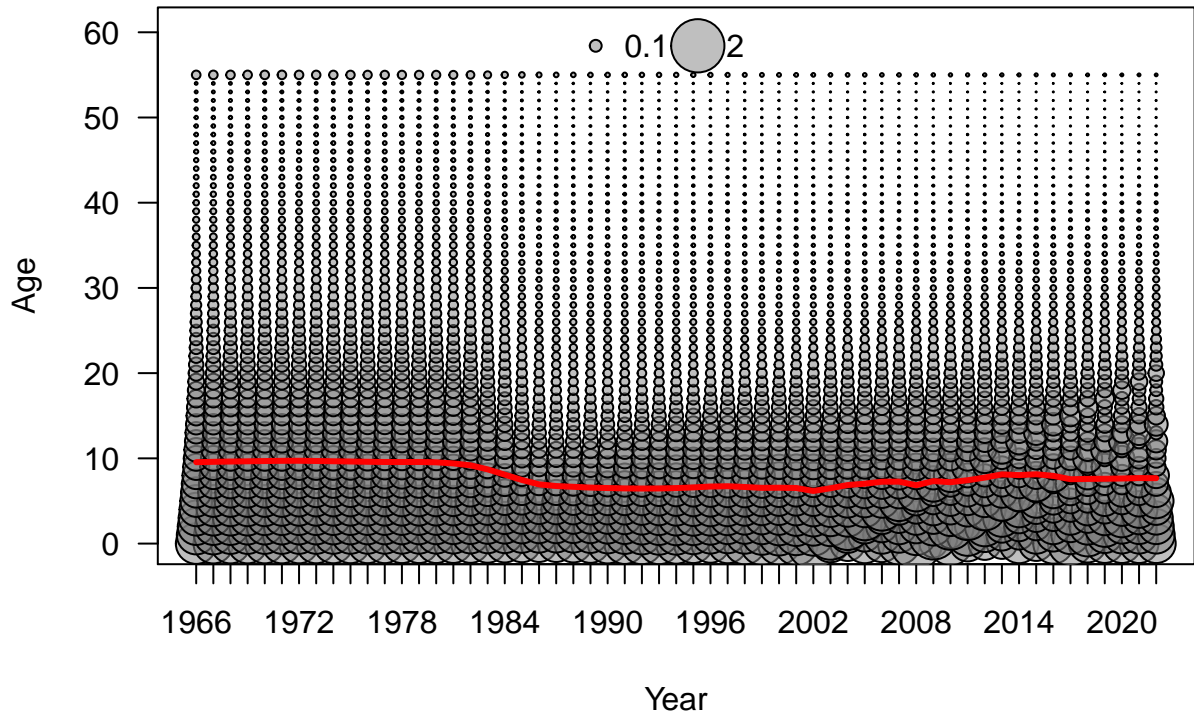


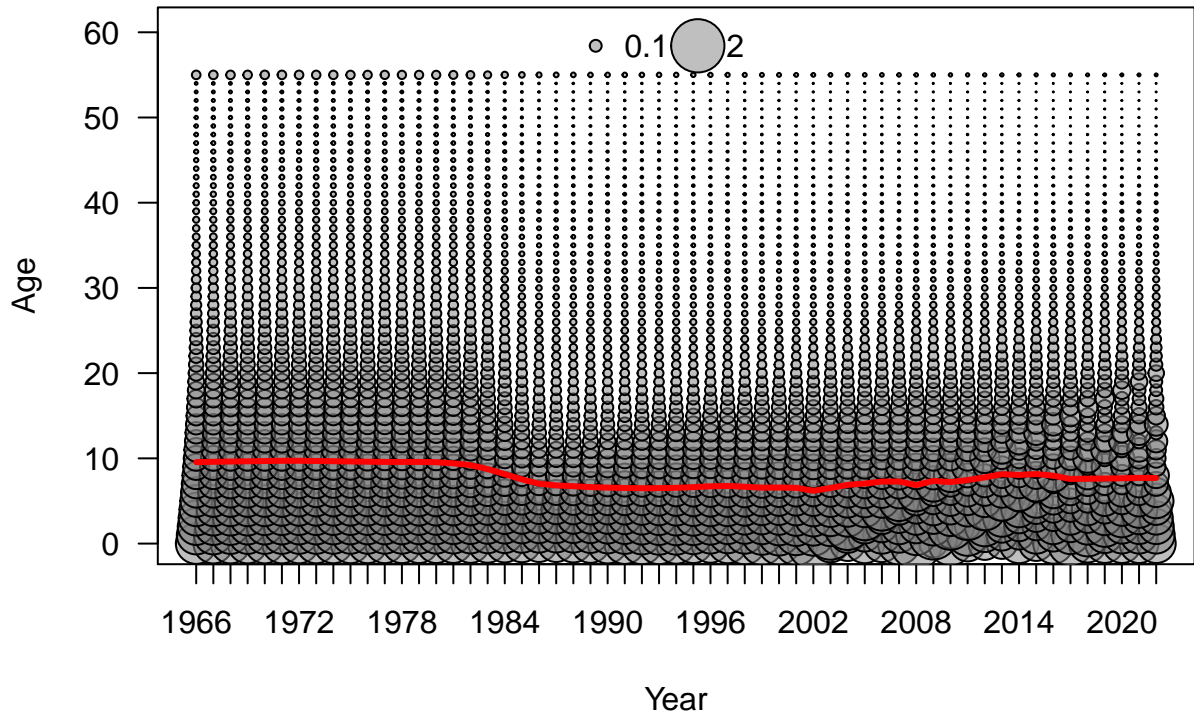


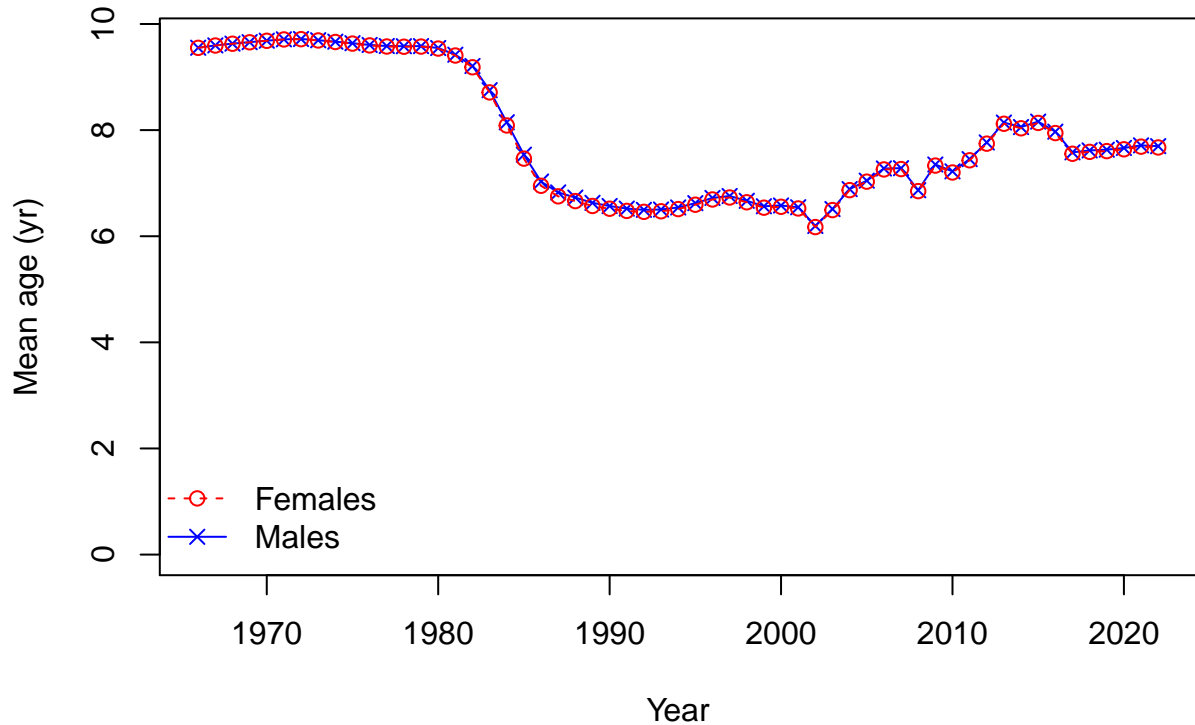


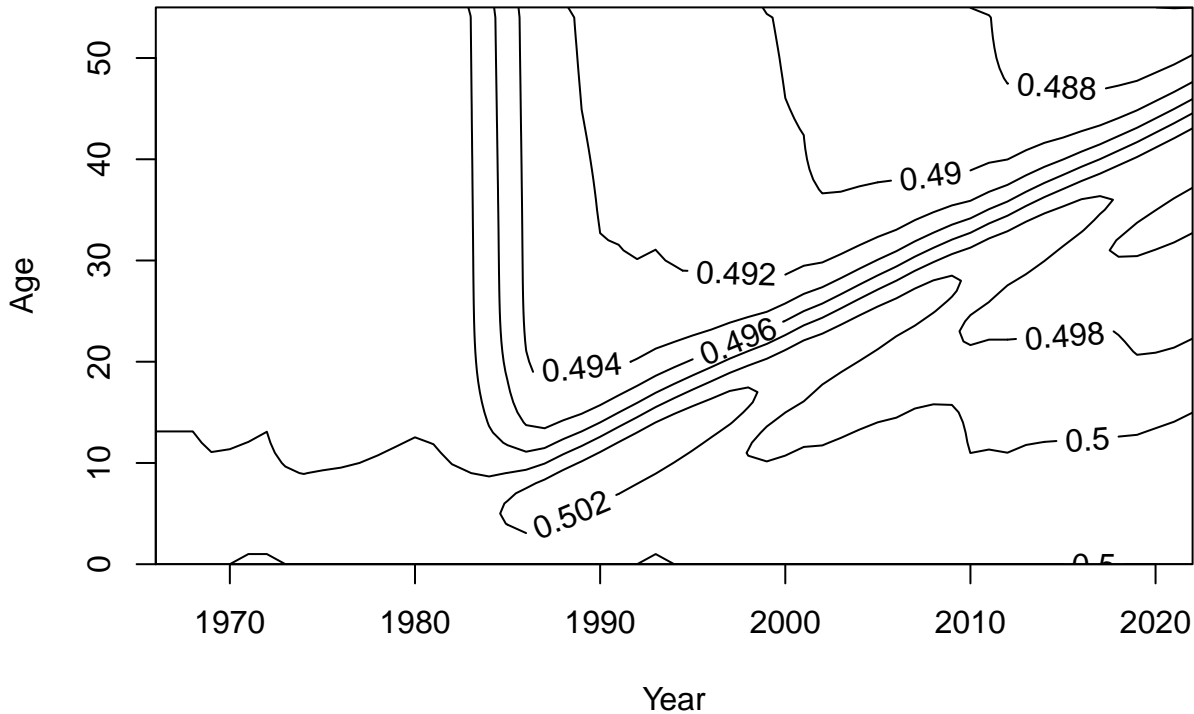
Mean age (yr)

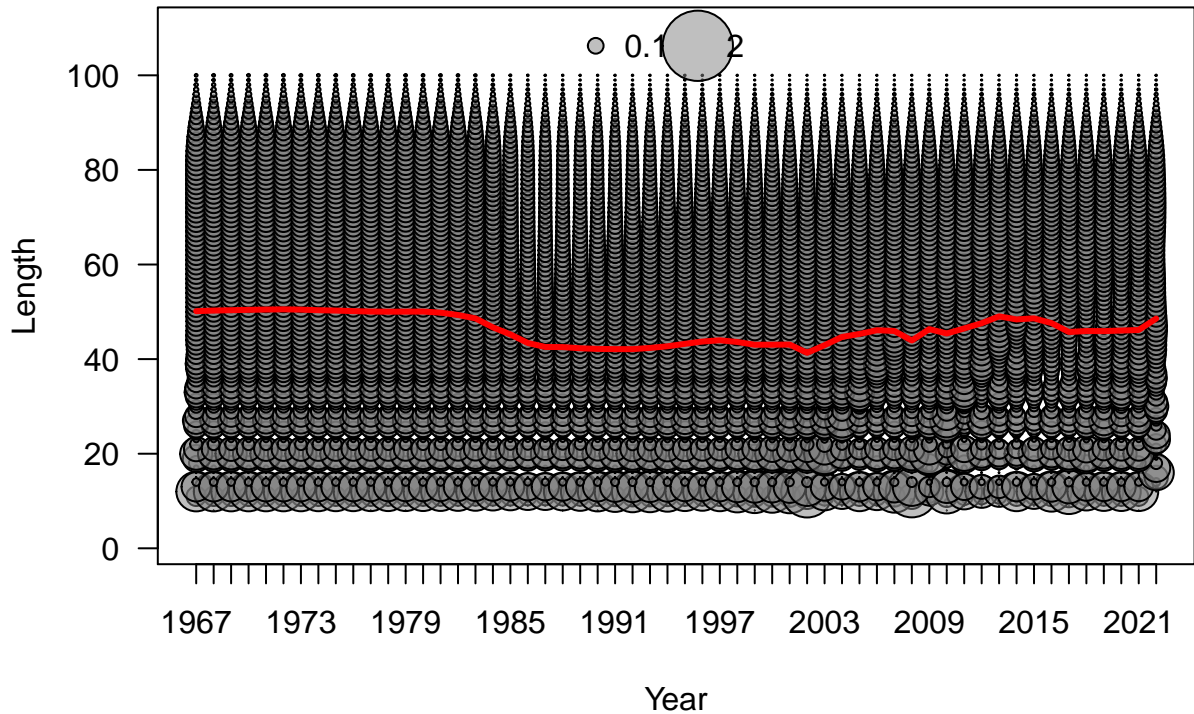


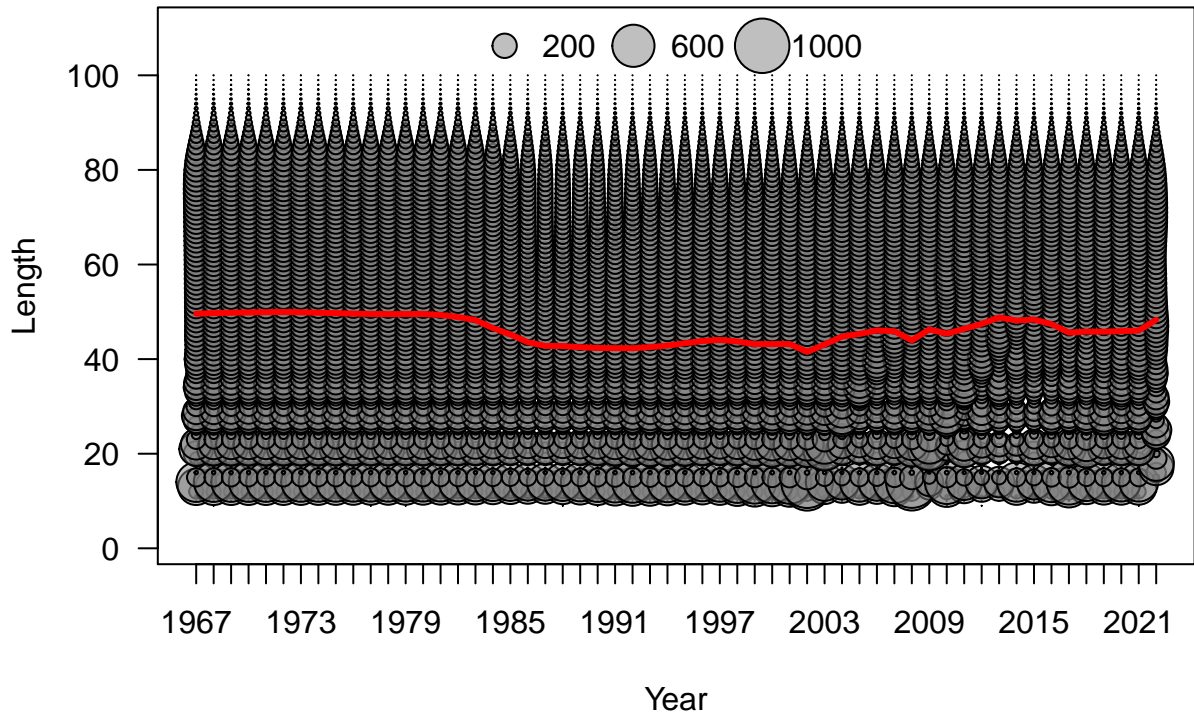


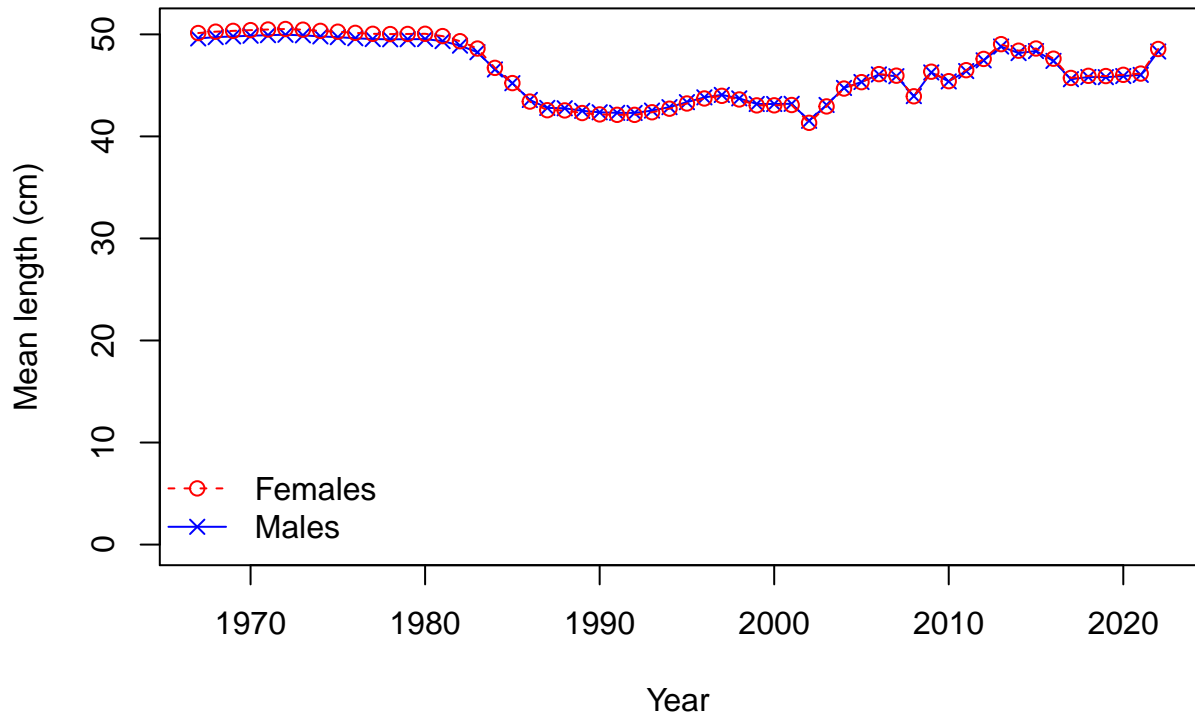


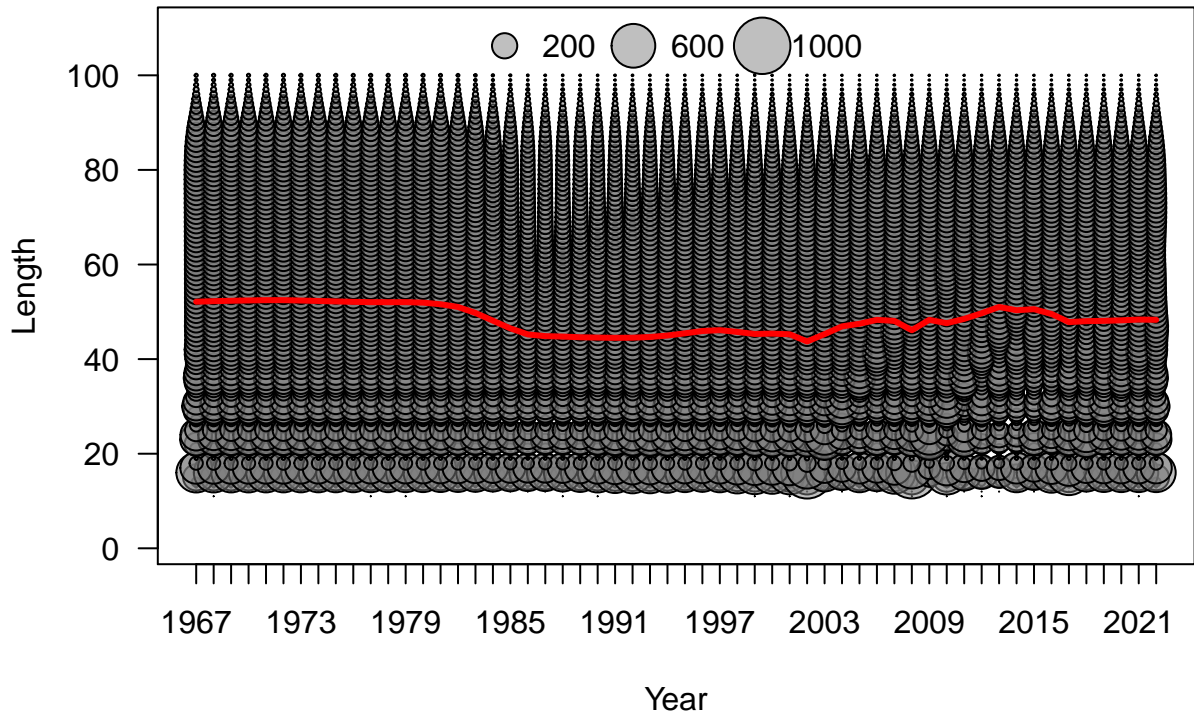


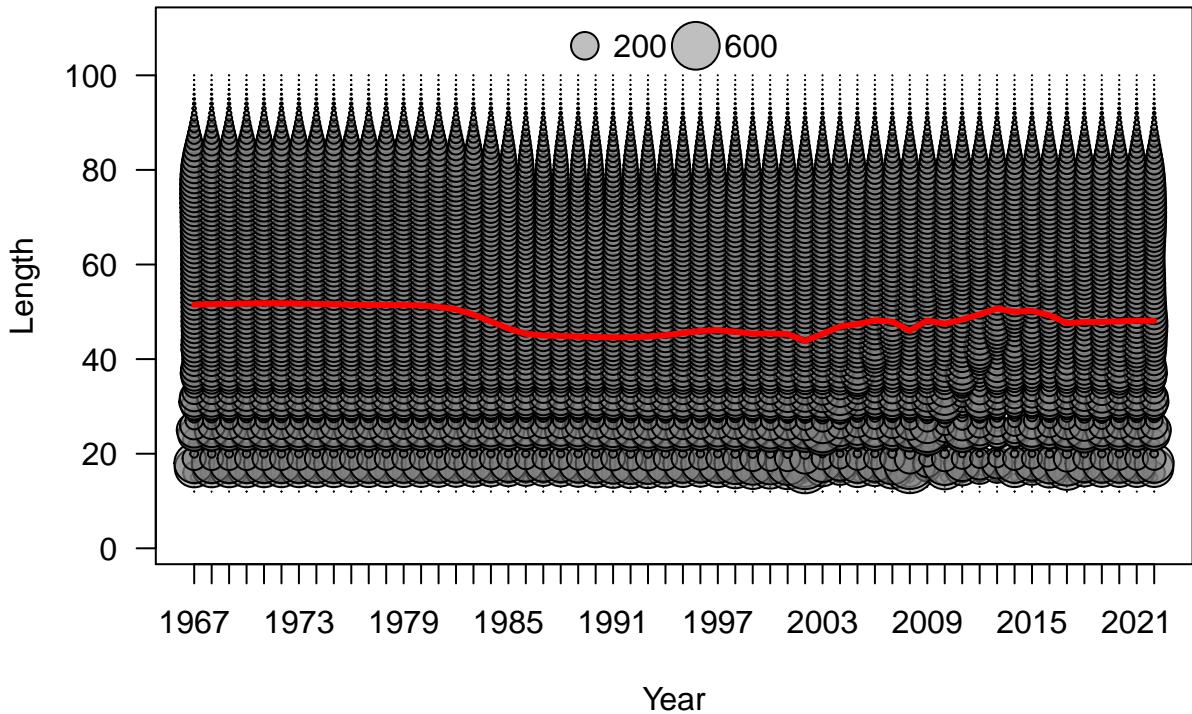


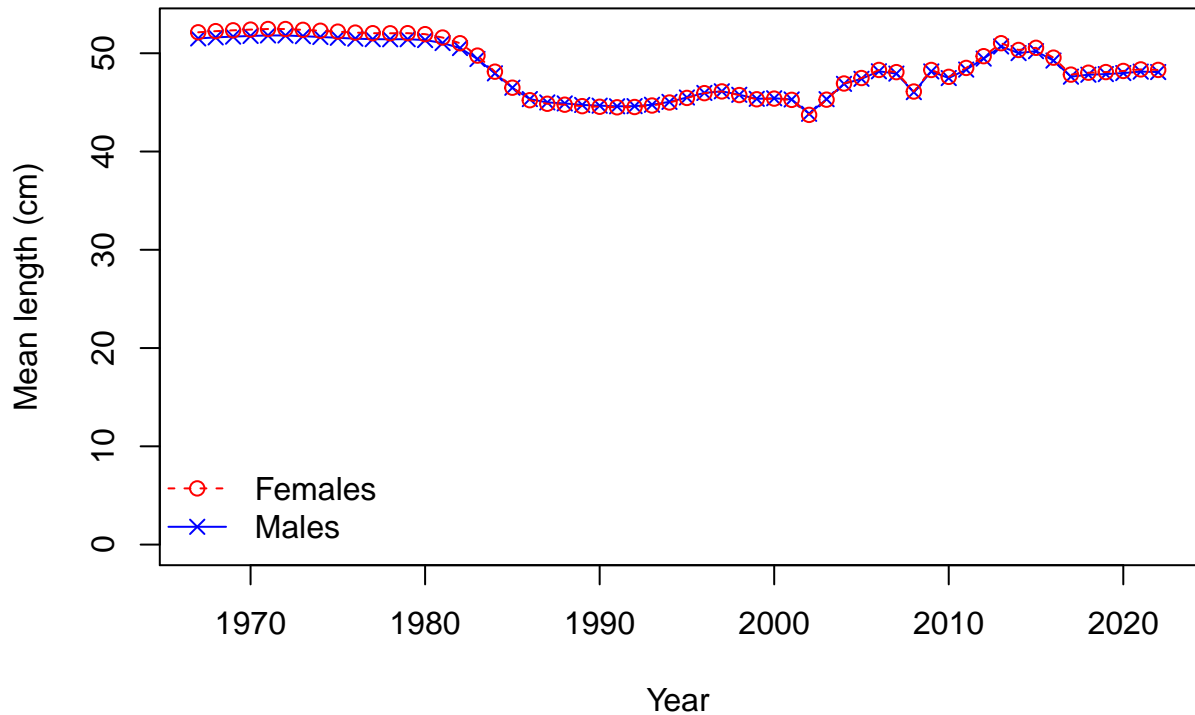


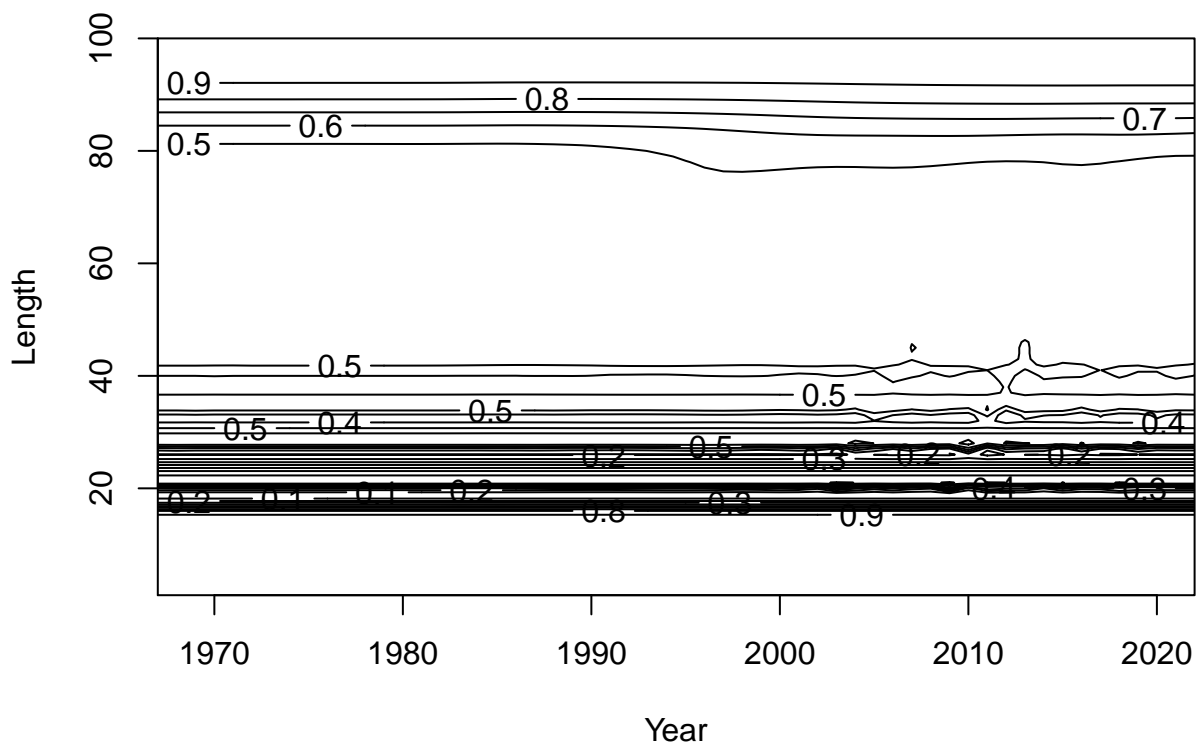


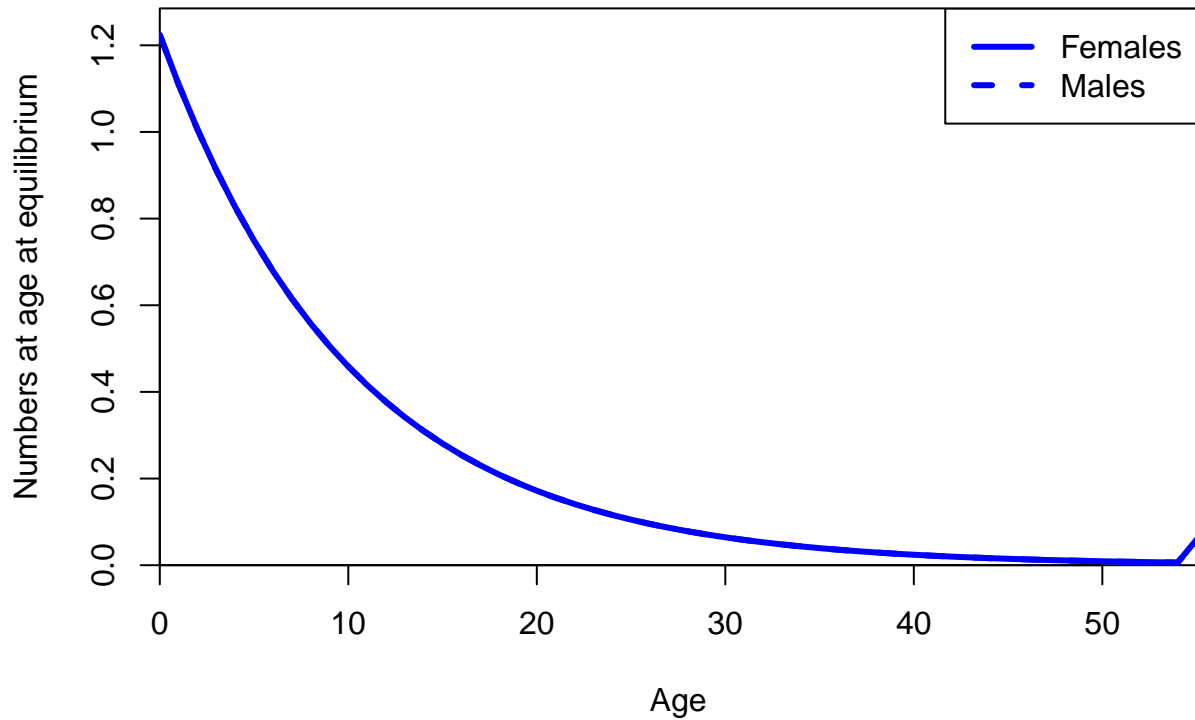


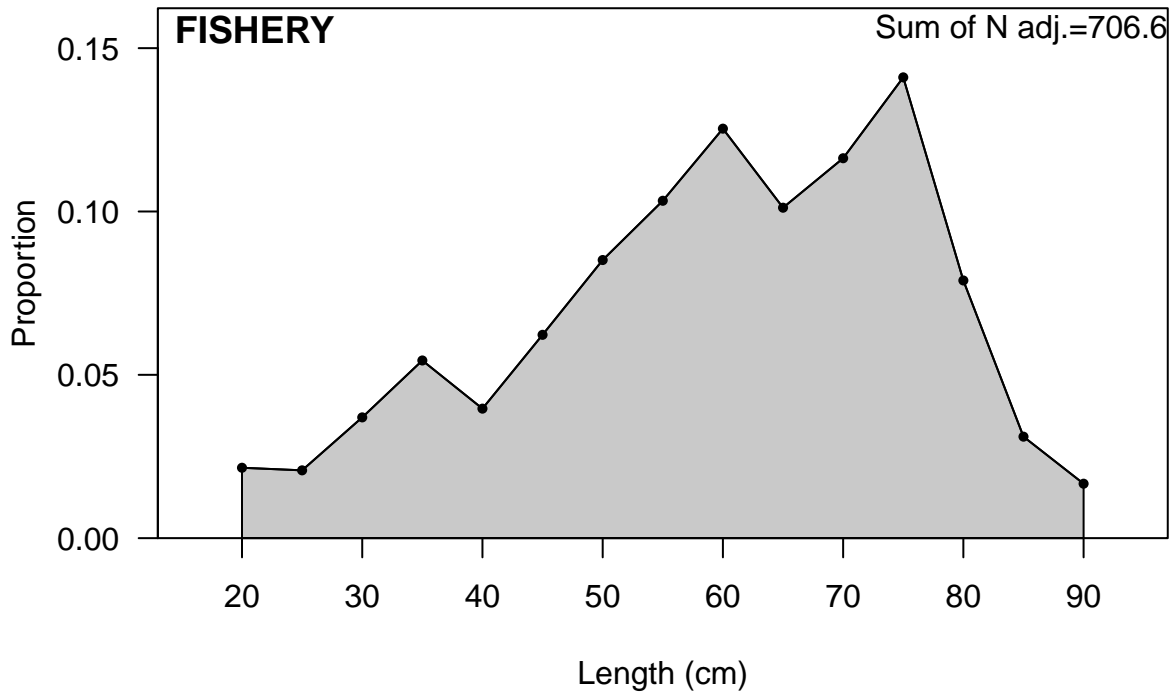






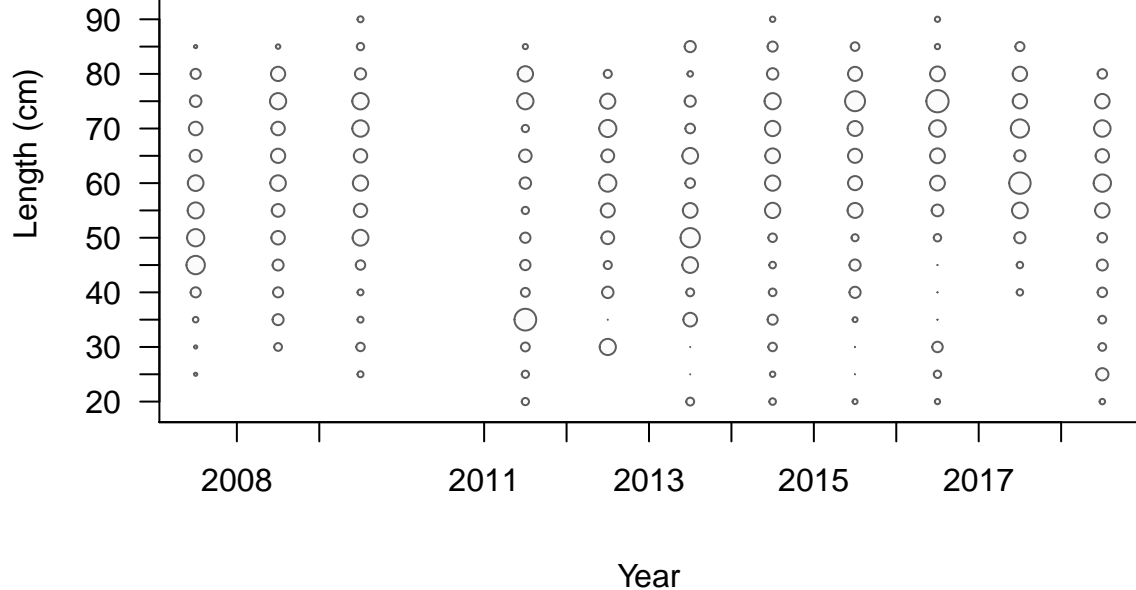




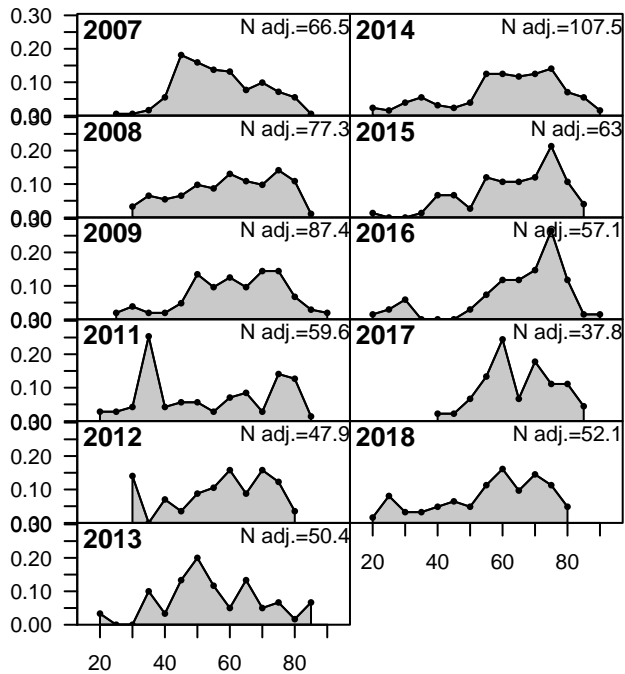


FISHERY

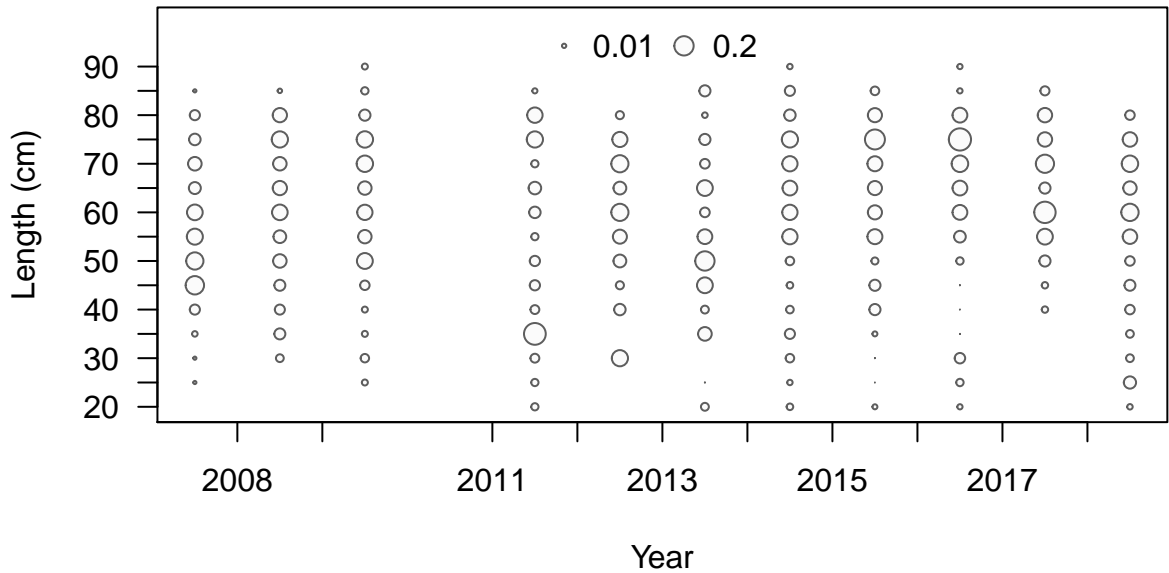
◦ 0.01 ○ 0.2



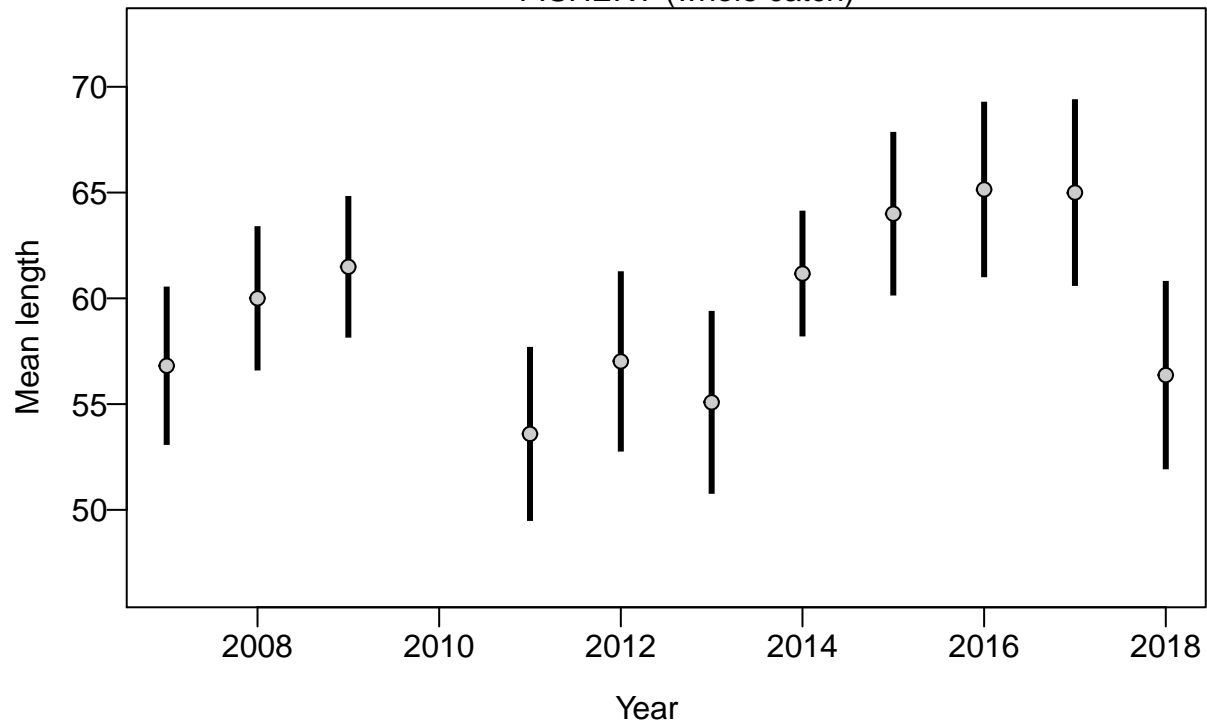
Proportion

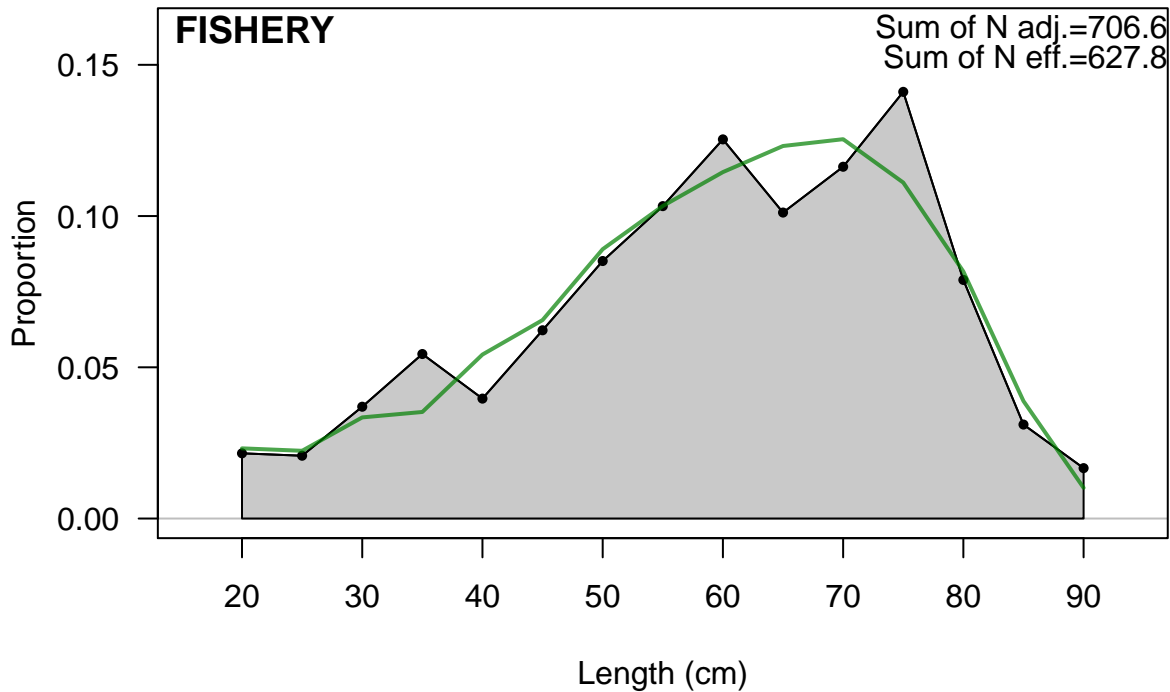


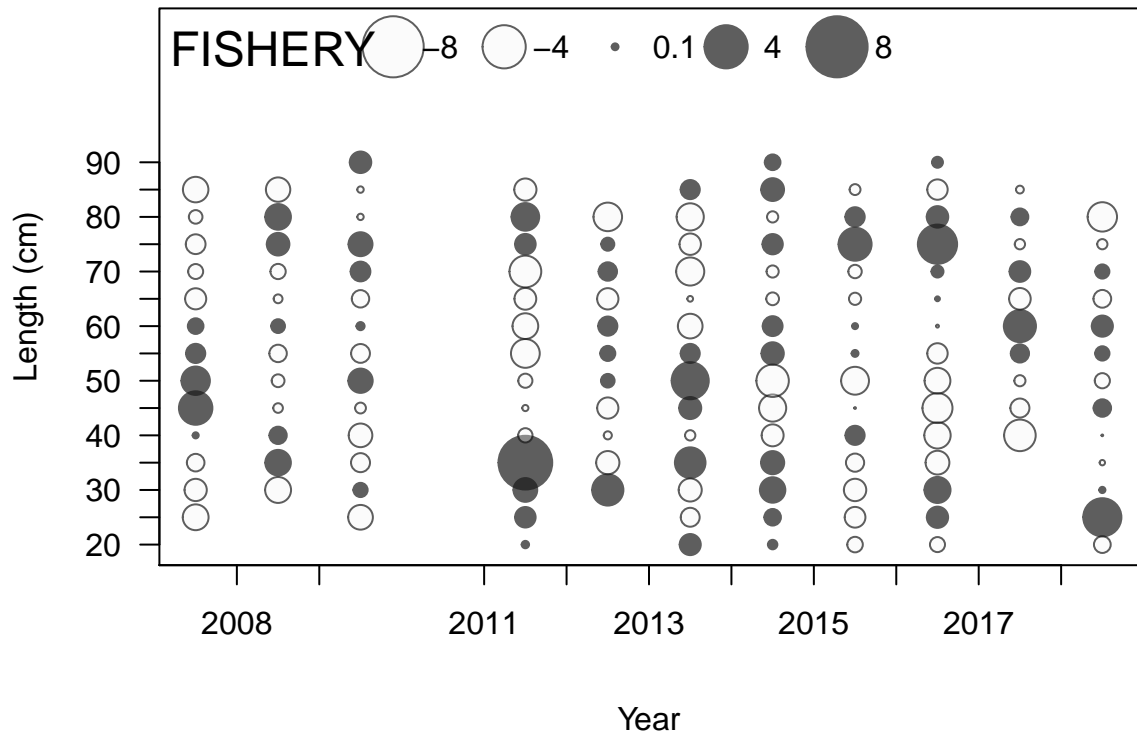
Length (cm)



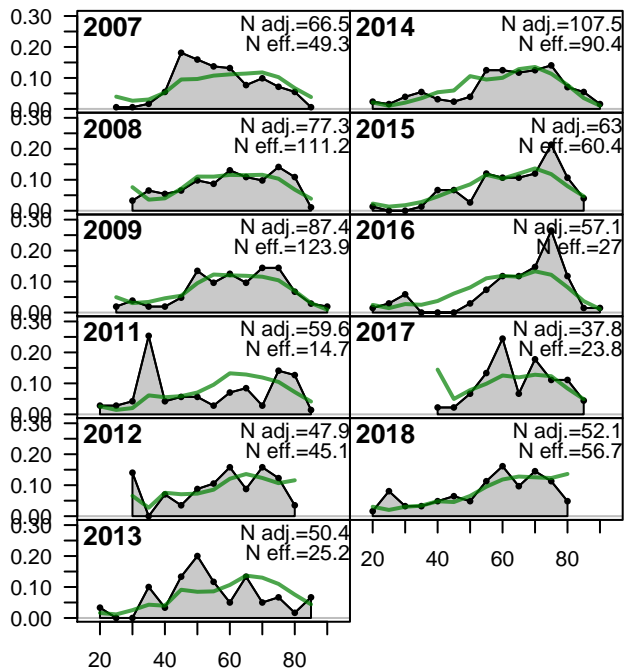
FISHERY (whole catch)



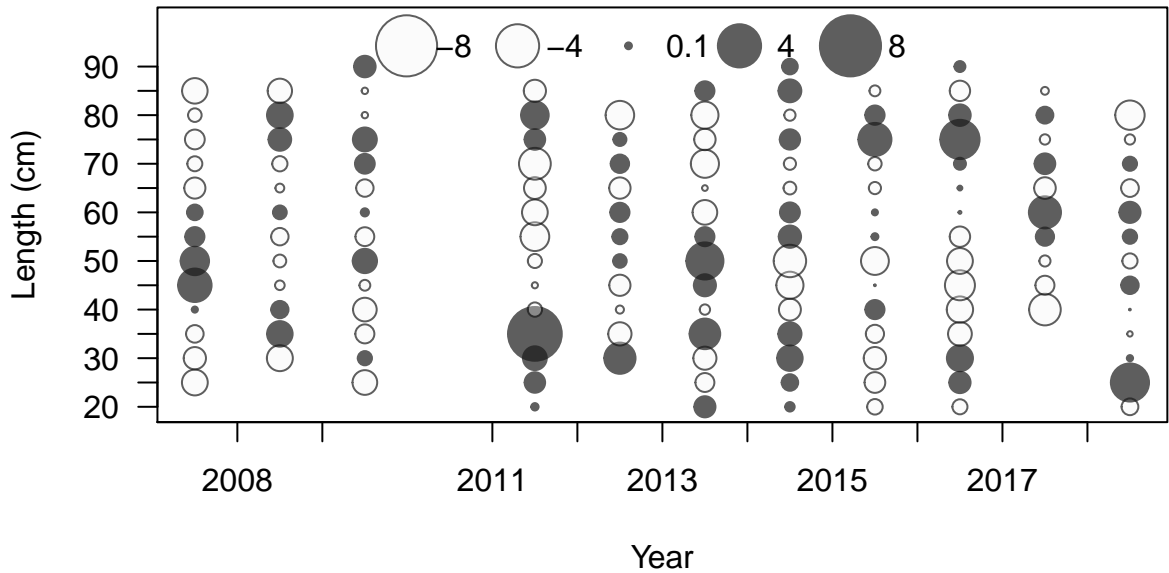




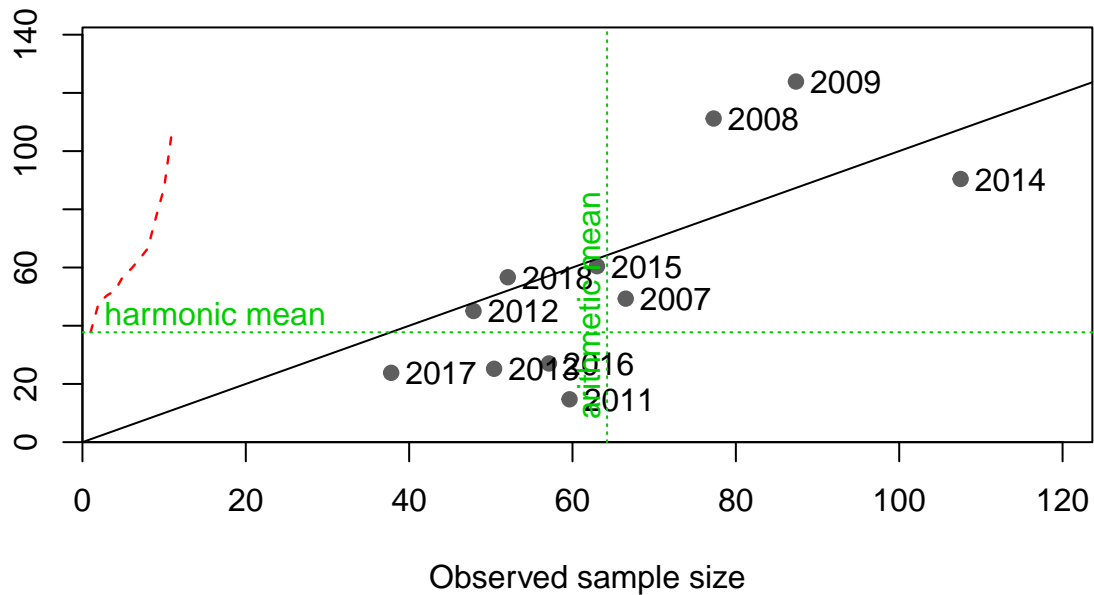
Proportion



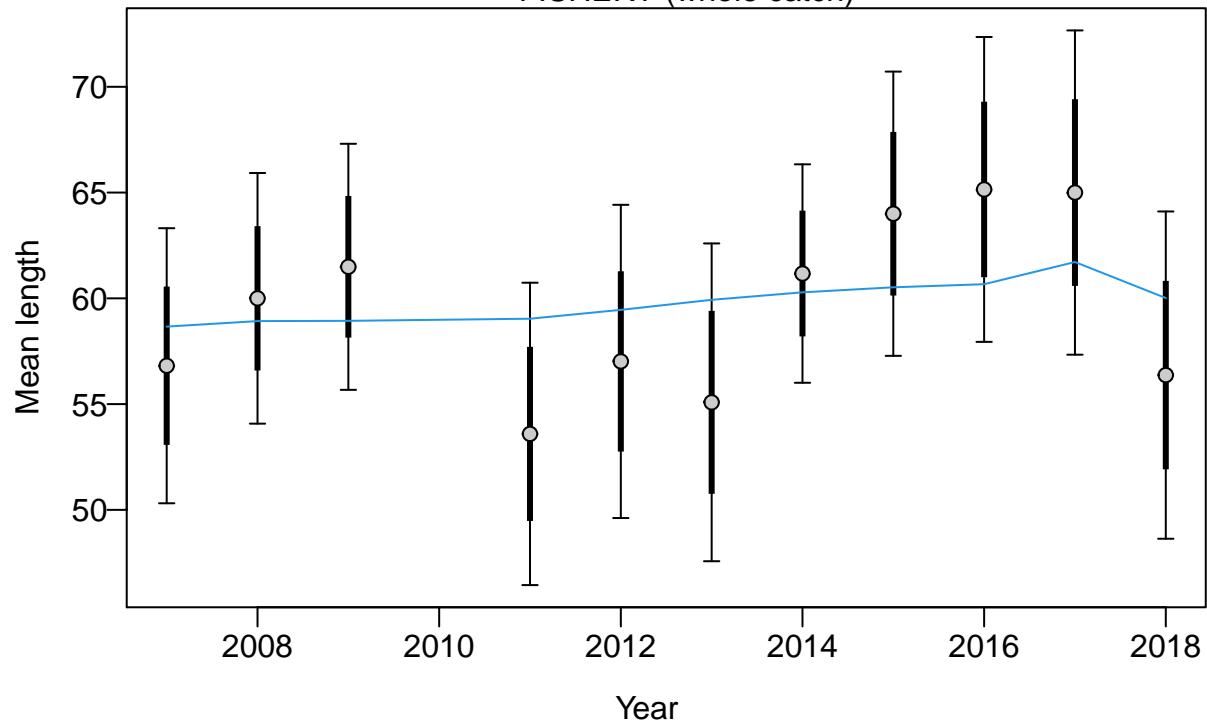
Length (cm)

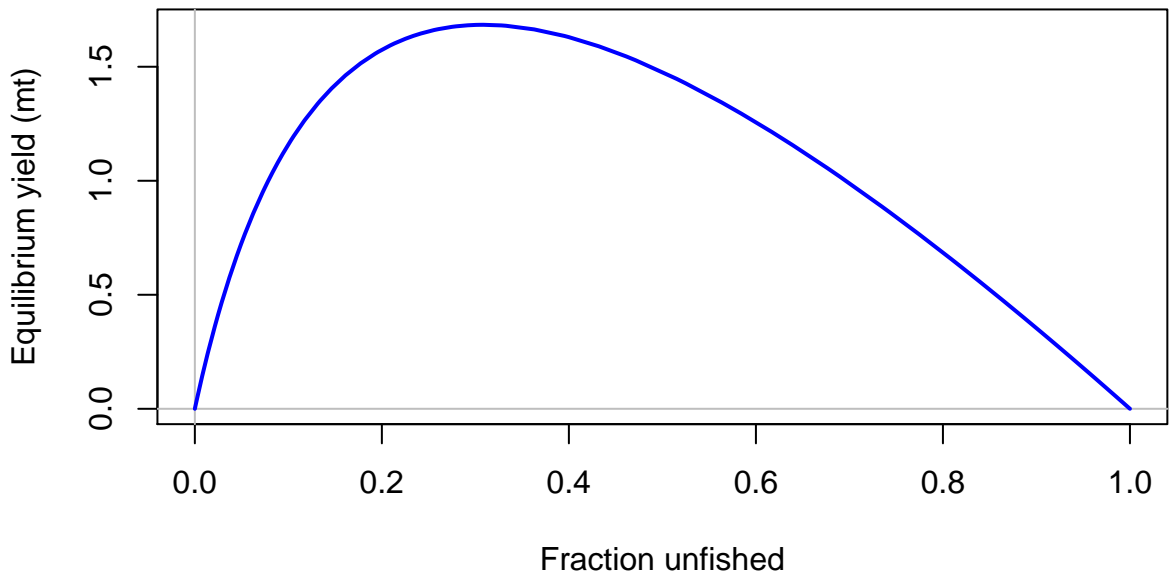


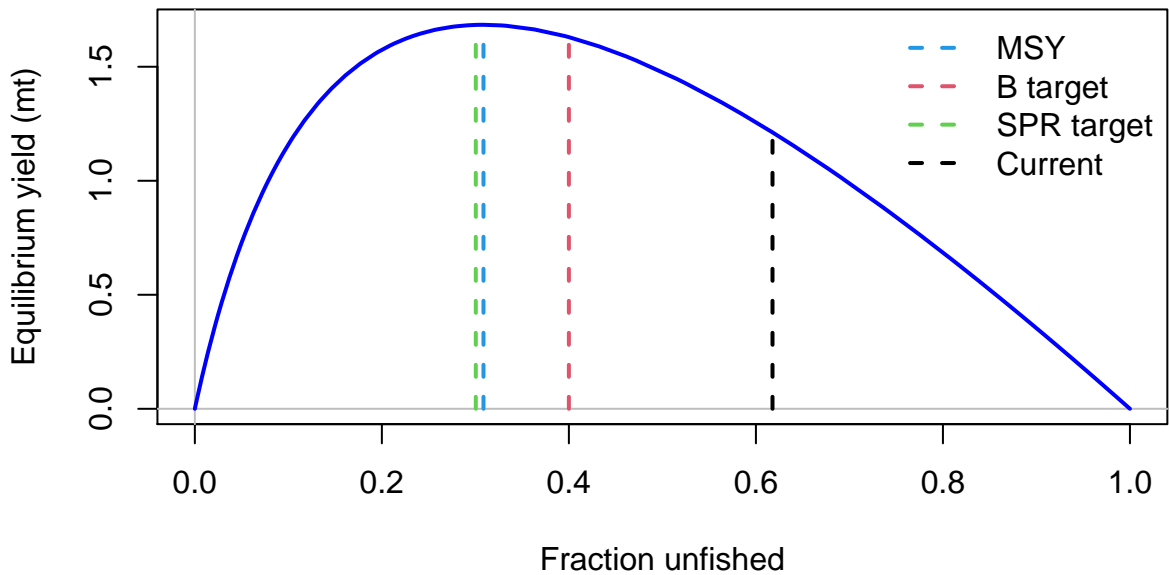
Effective sample size

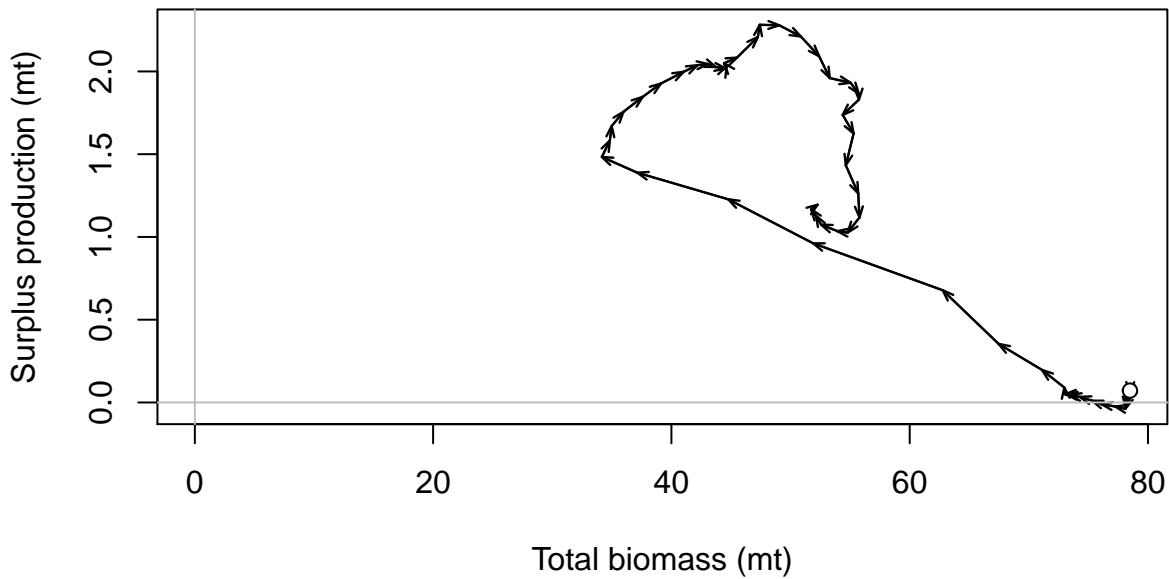


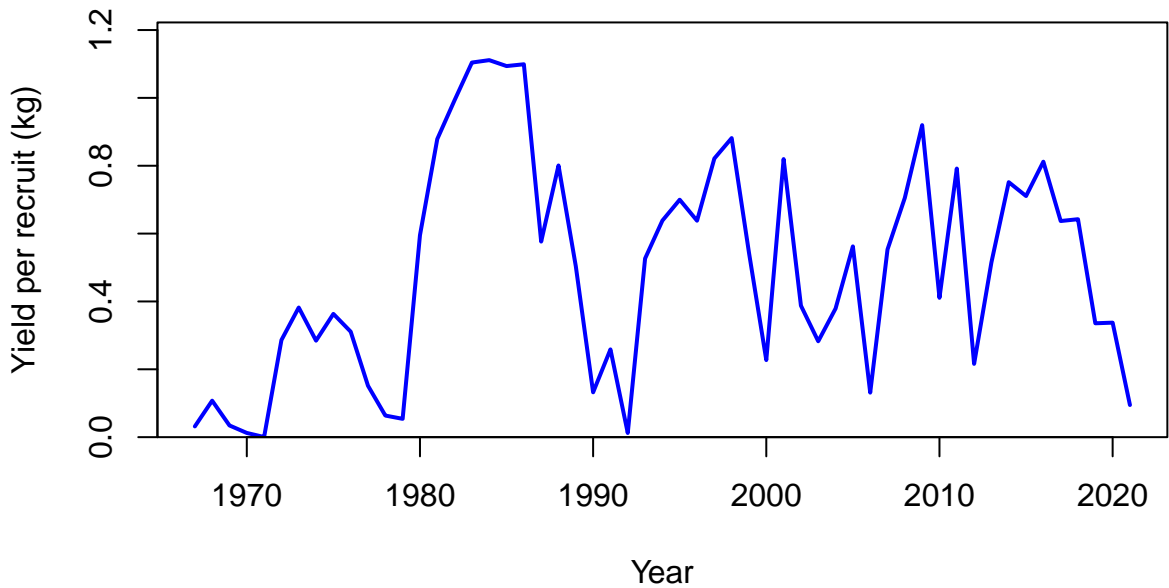
FISHERY (whole catch)

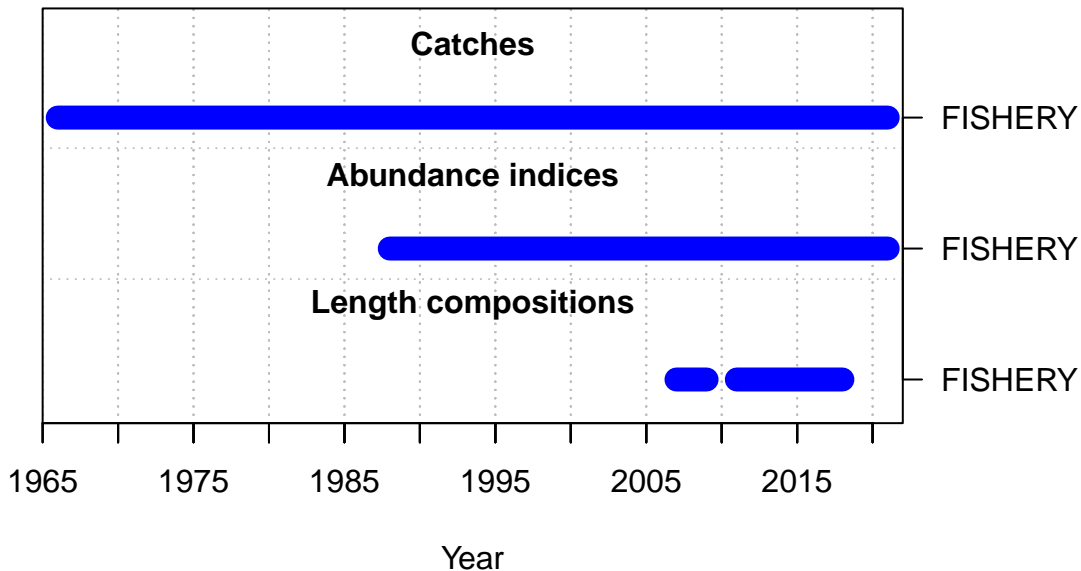


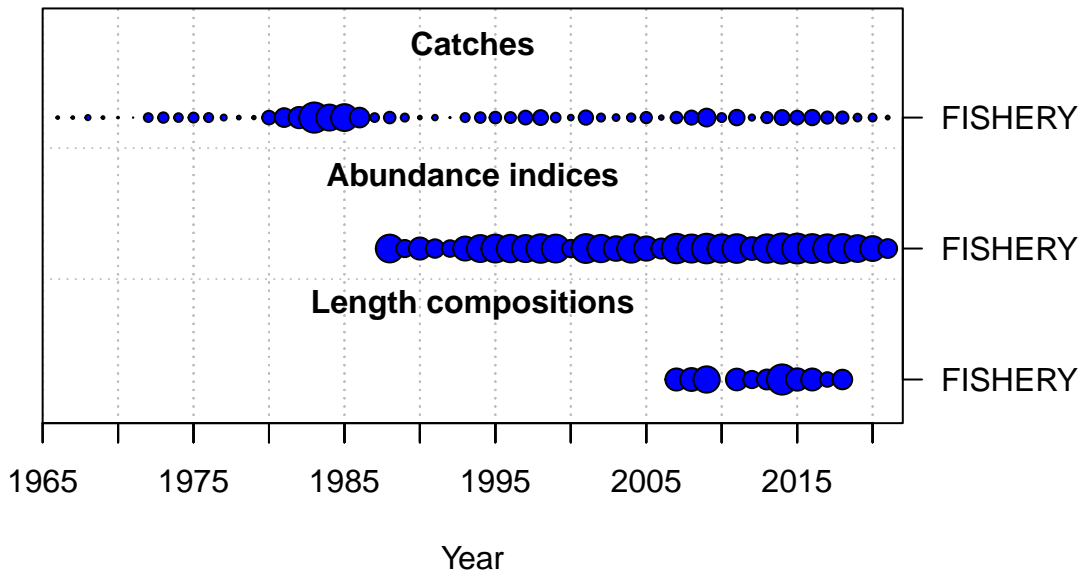




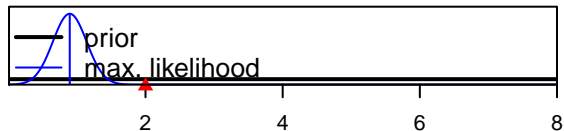




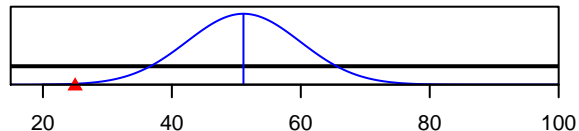




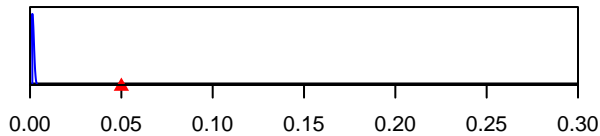
SR_LN(R0)



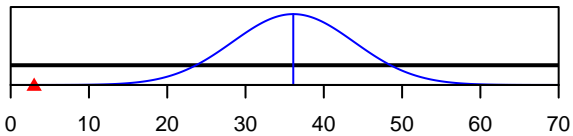
Size_inflection_FISHERY(1)



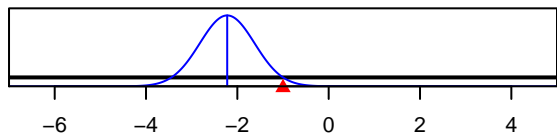
InitF_seas_1_flt_1FISHERY



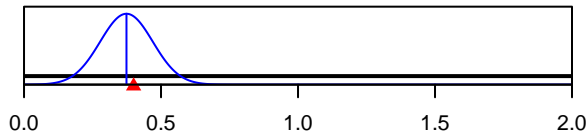
Size_95%width_FISHERY(1)



LnQ_base_FISHERY(1)



Q_extraSD_FISHERY(1)



Parameter value