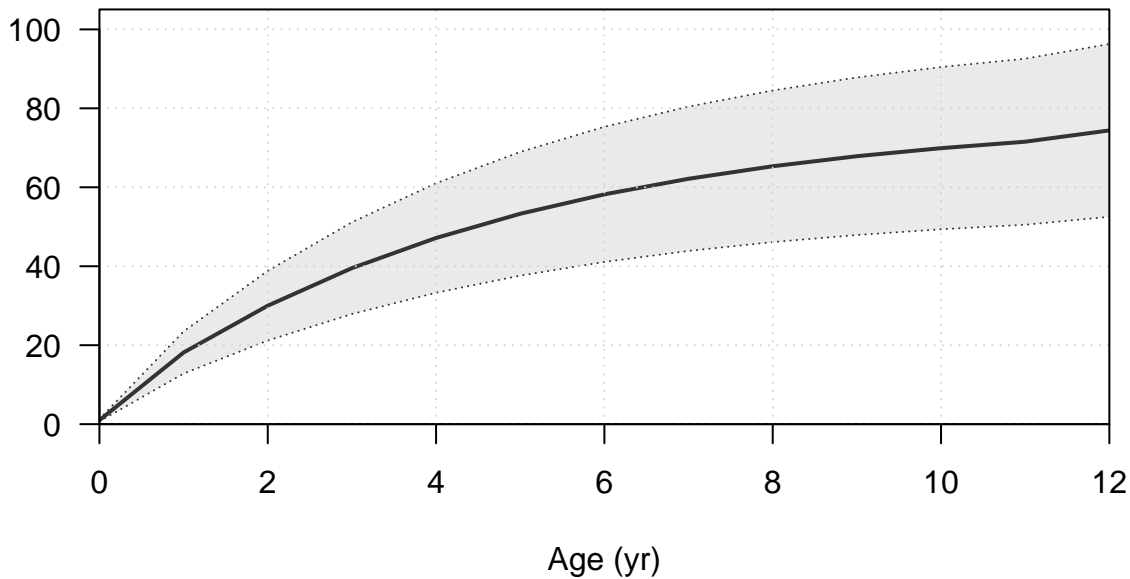
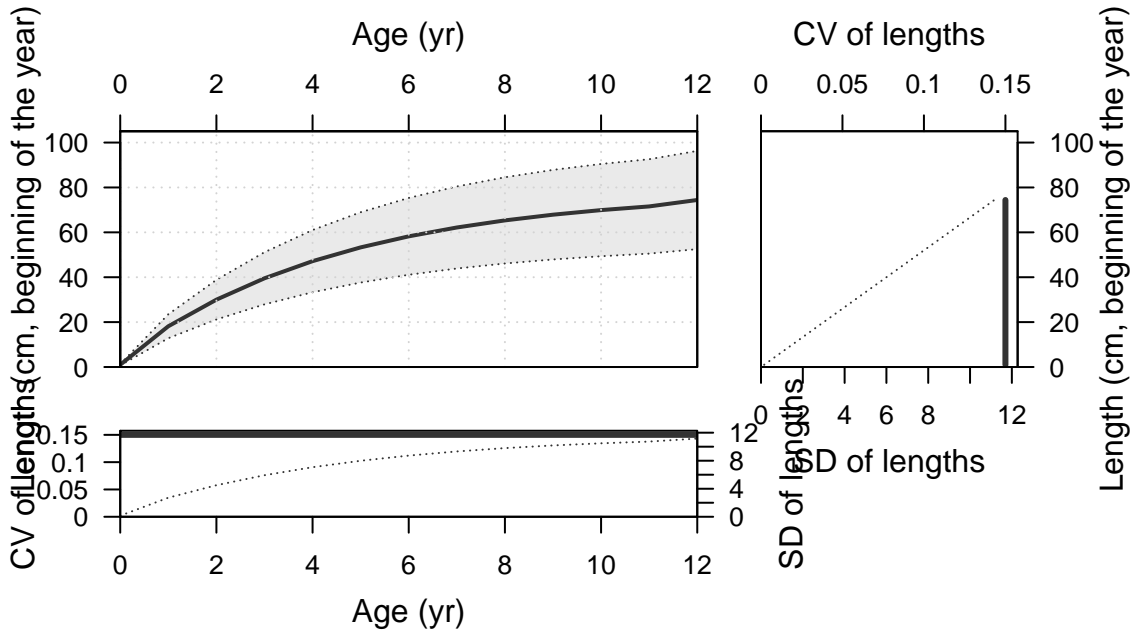
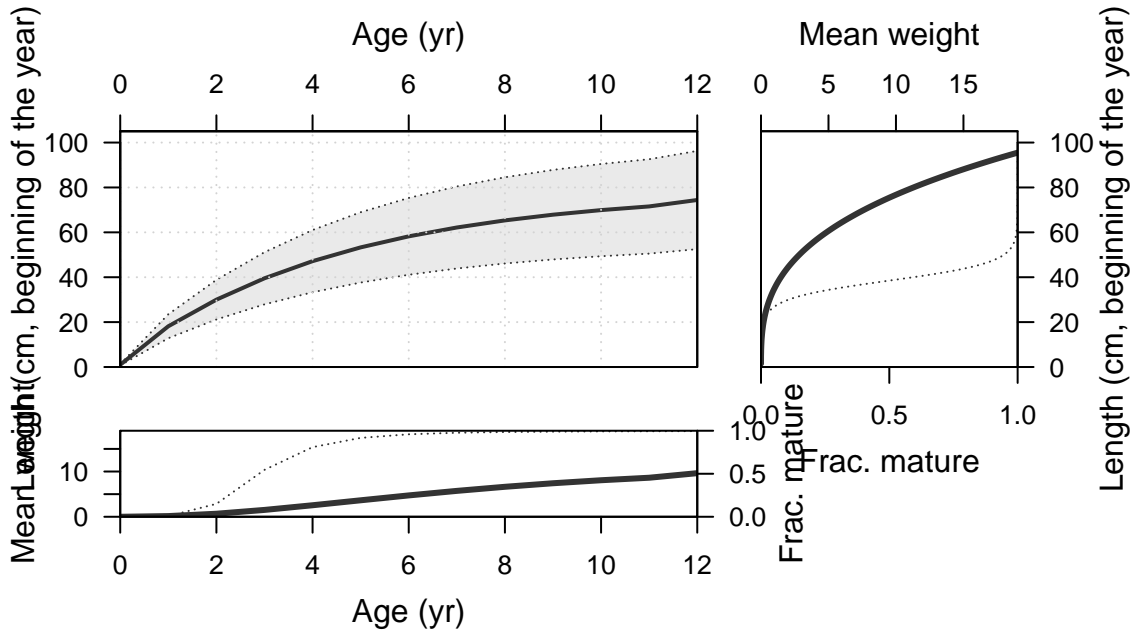


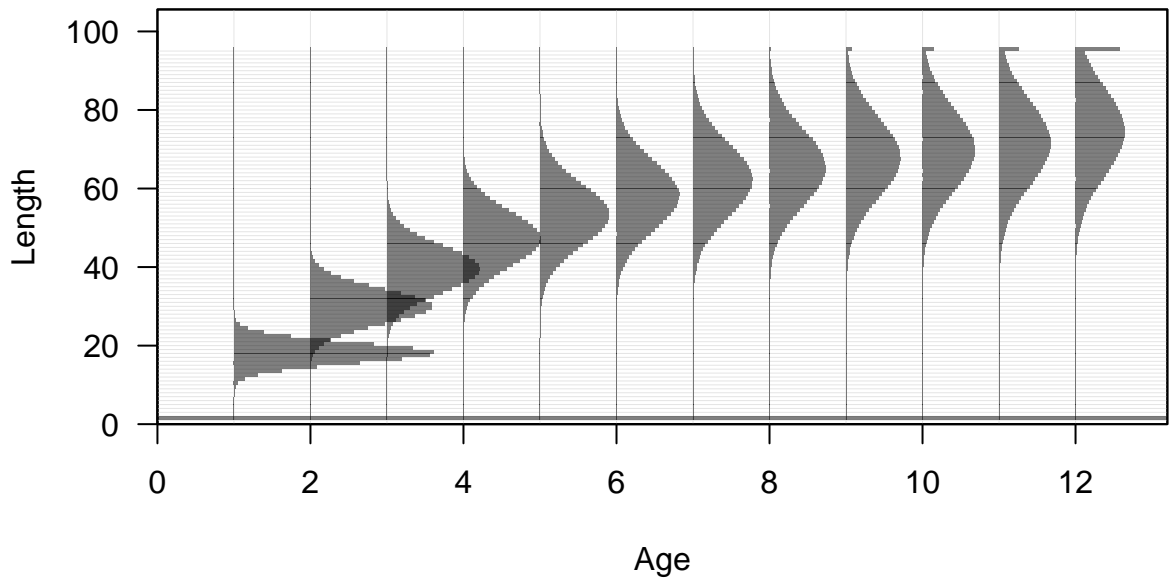
Plots created using the 'r4ss' package in R
Stock Synthesis version: 3.30.19.0
StartTime: Tue Jul 12 08:06:28 2022
Data_File: data.ss
Control_File: control.ss

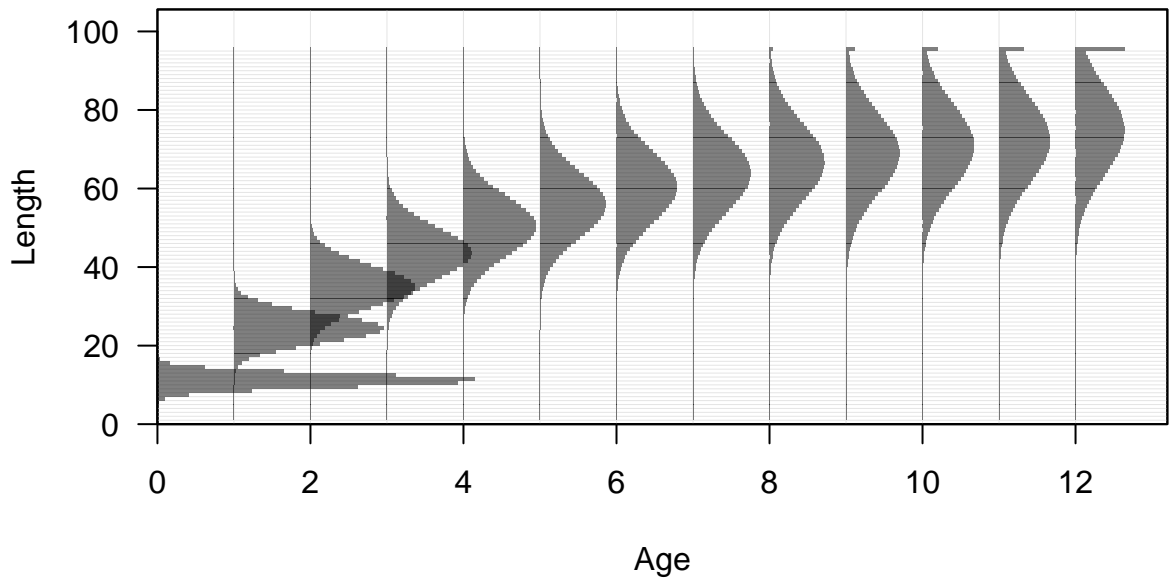
Length (cm, beginning of the year)





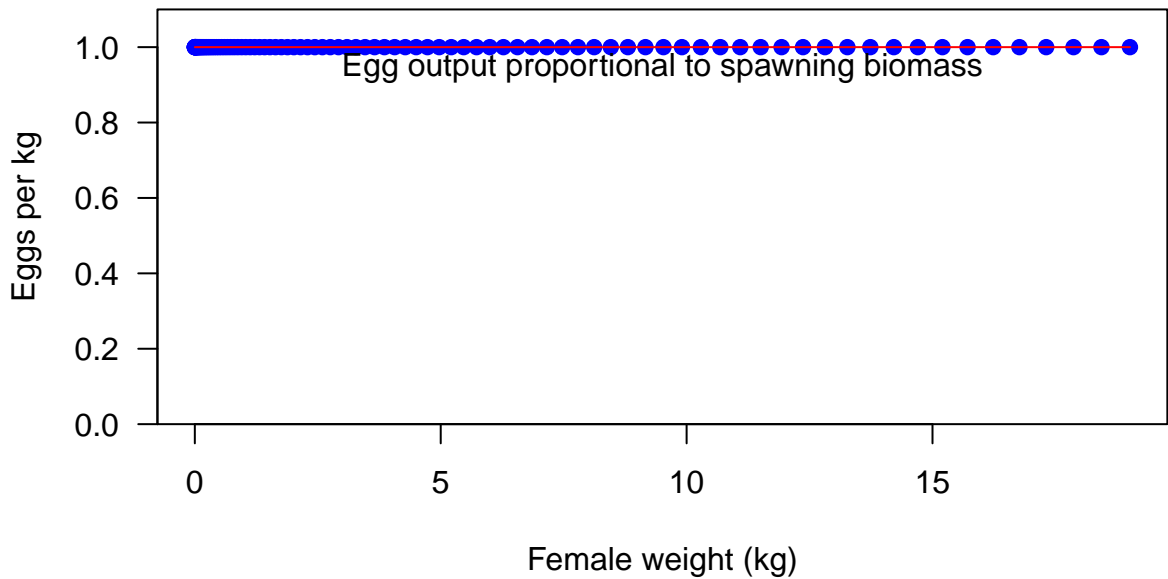












Fecundity

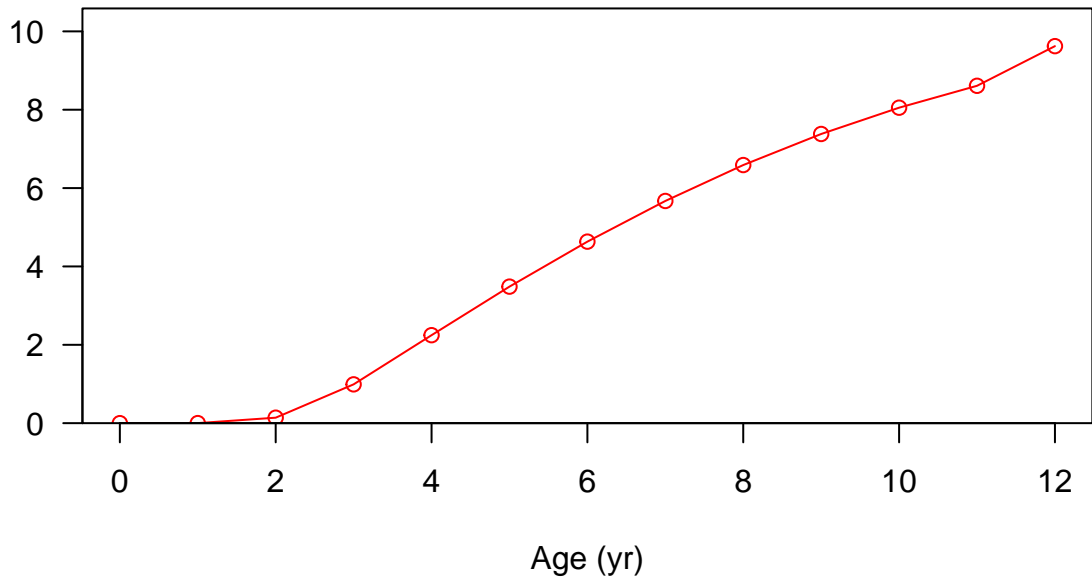




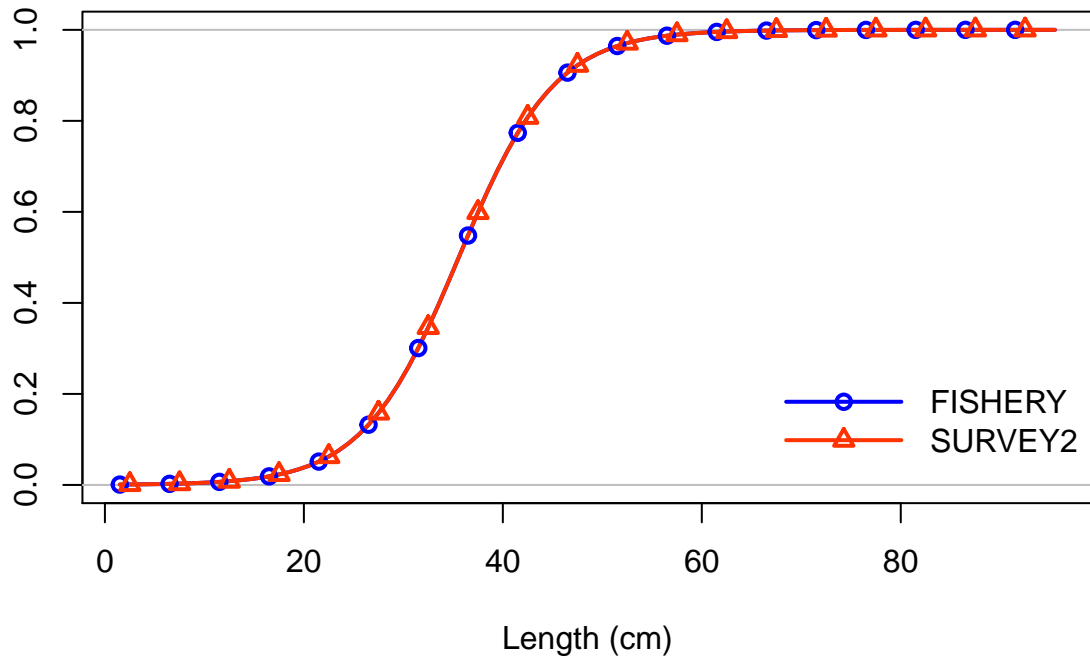
Spawning output



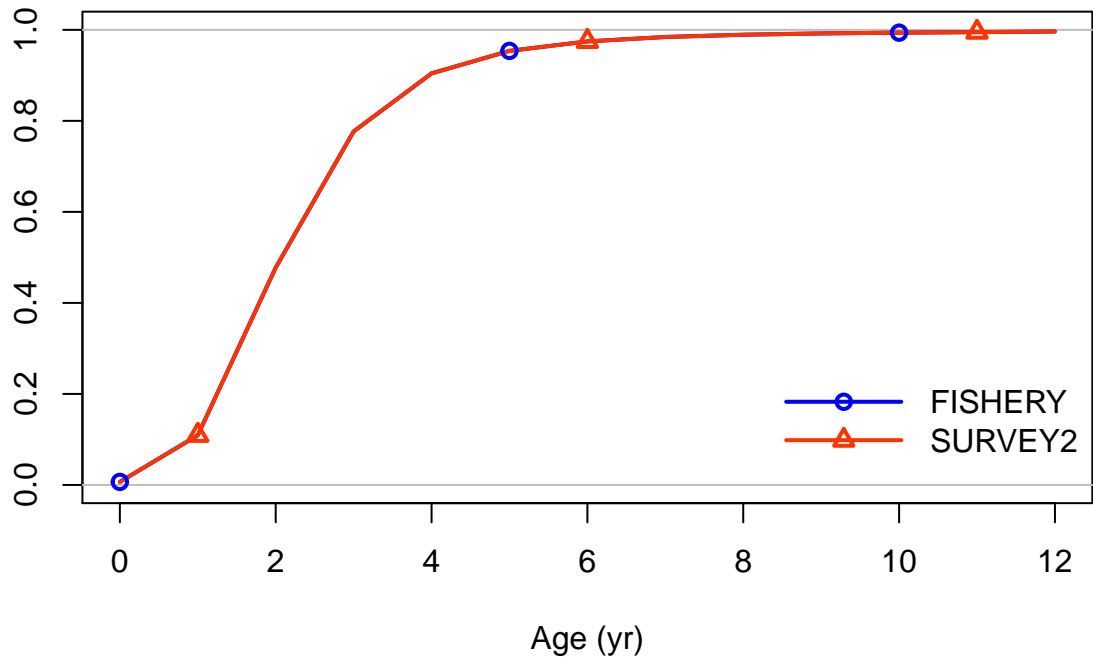
Spawning output



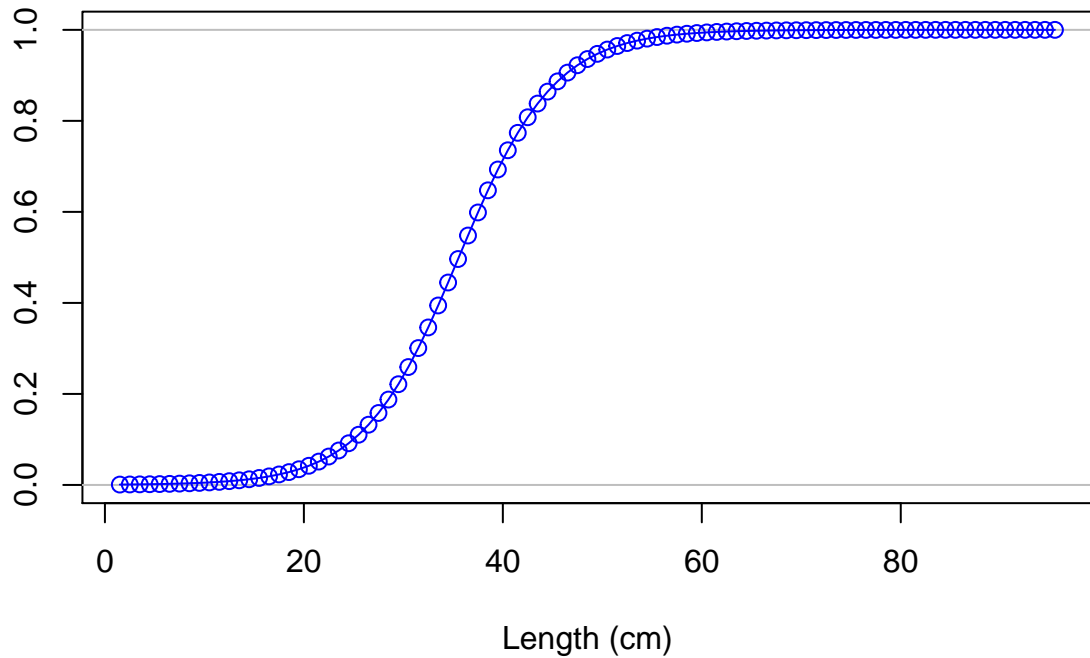
Selectivity



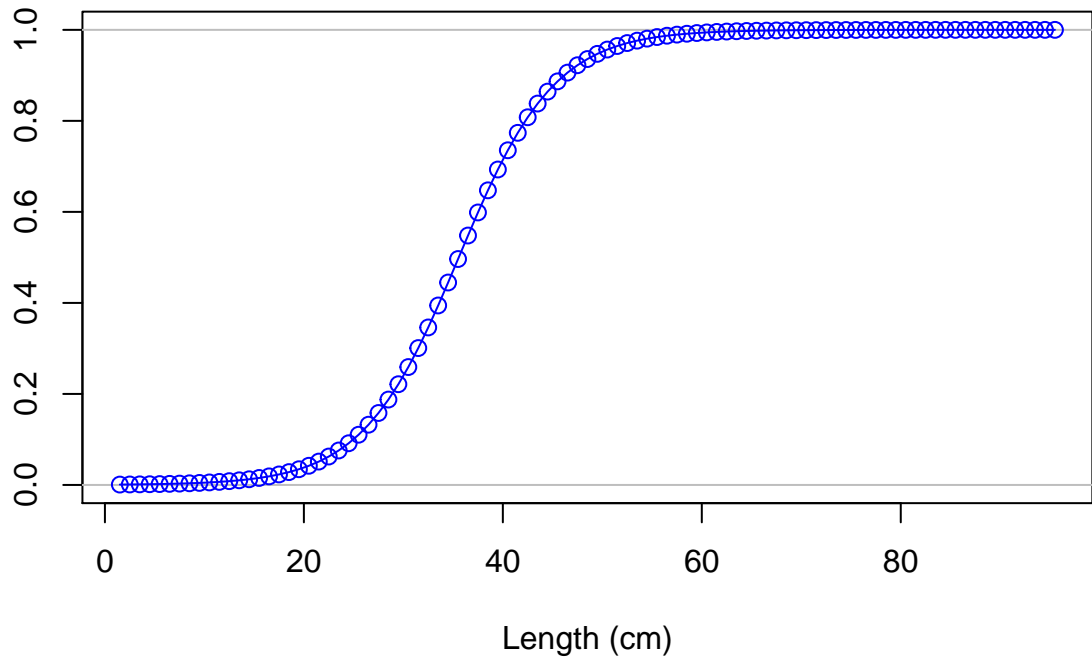
Selectivity

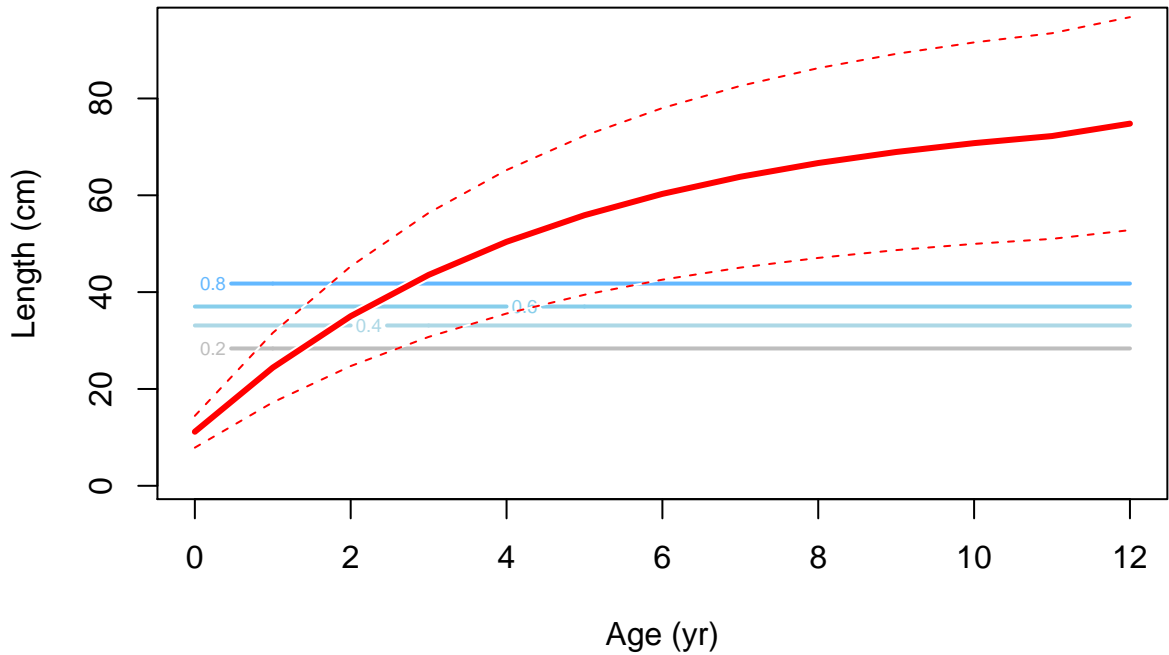


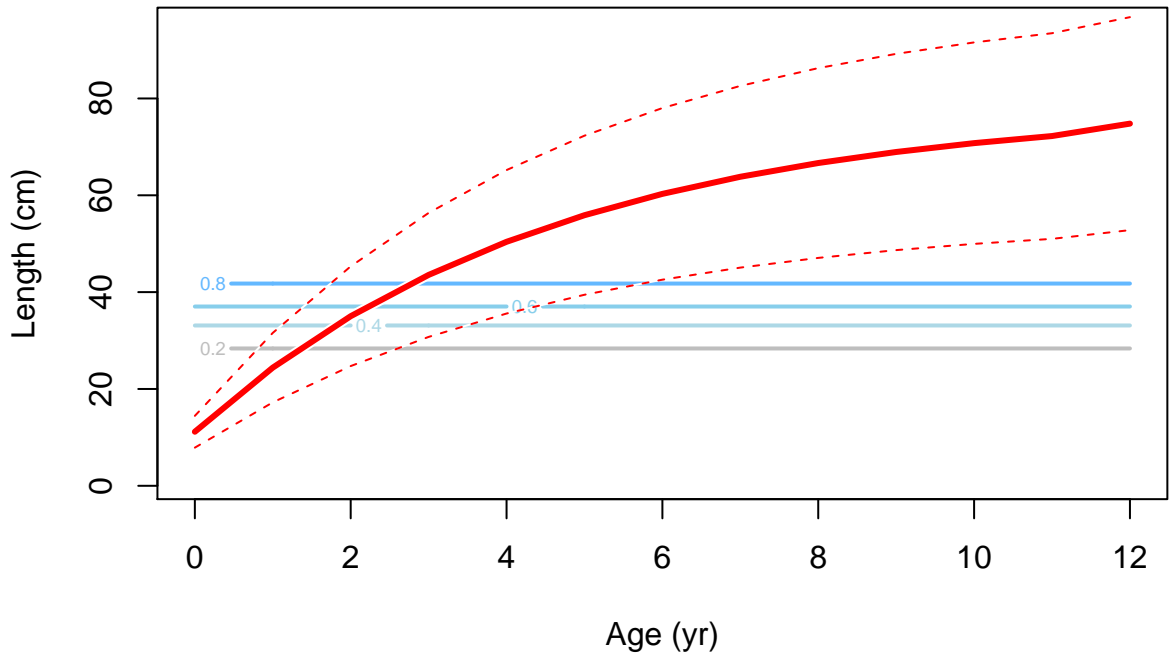
Selectivity



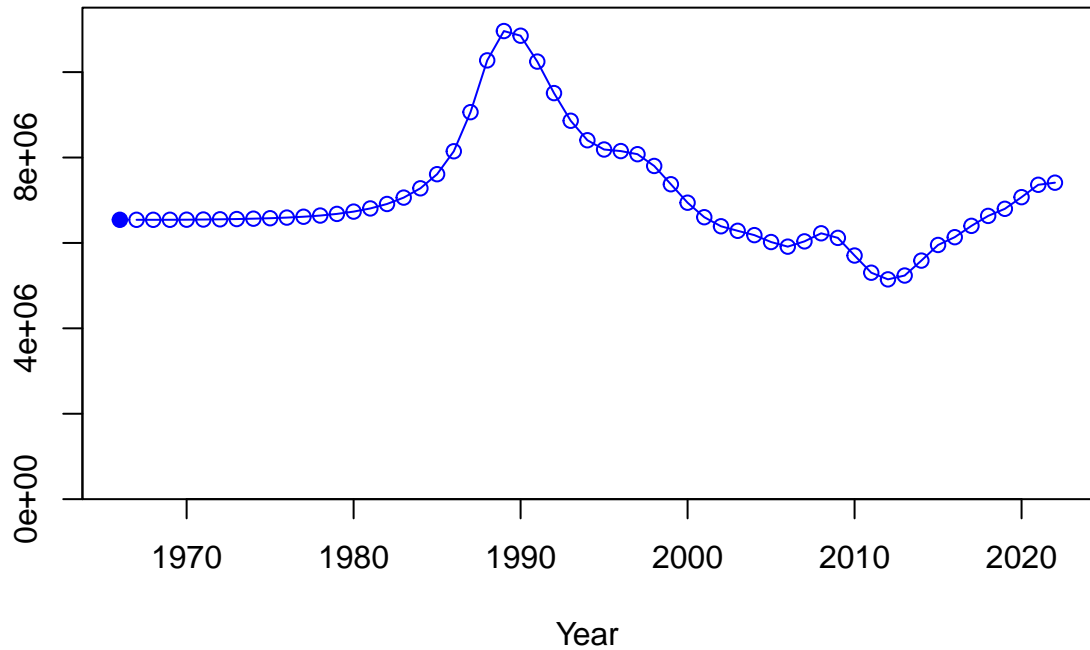
Selectivity



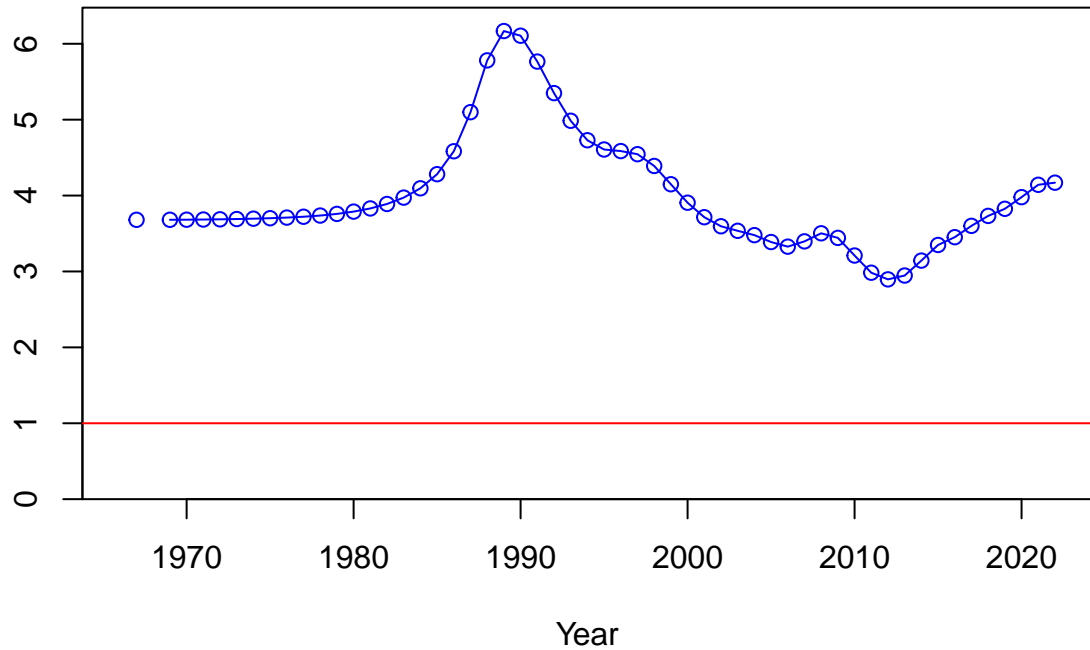


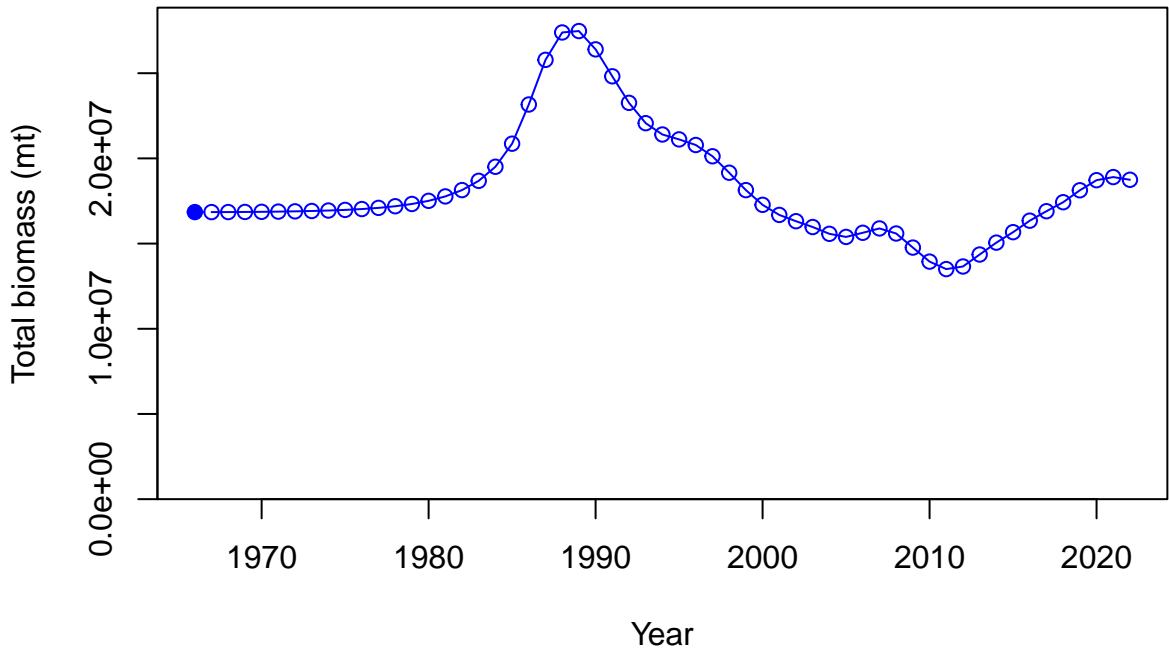


Spawning biomass (mt)

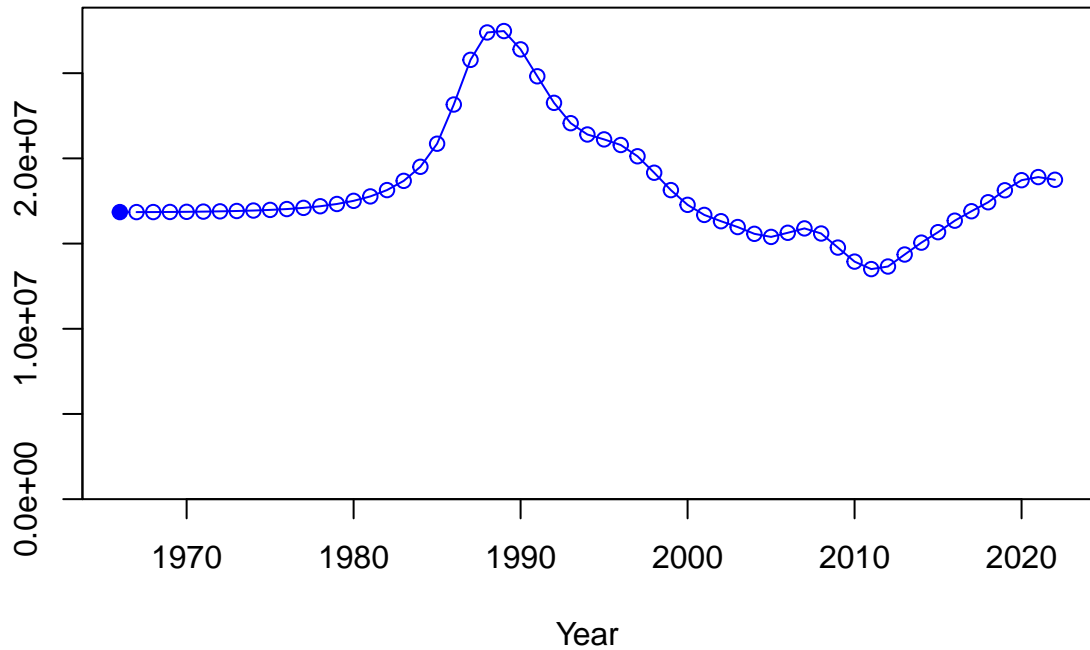


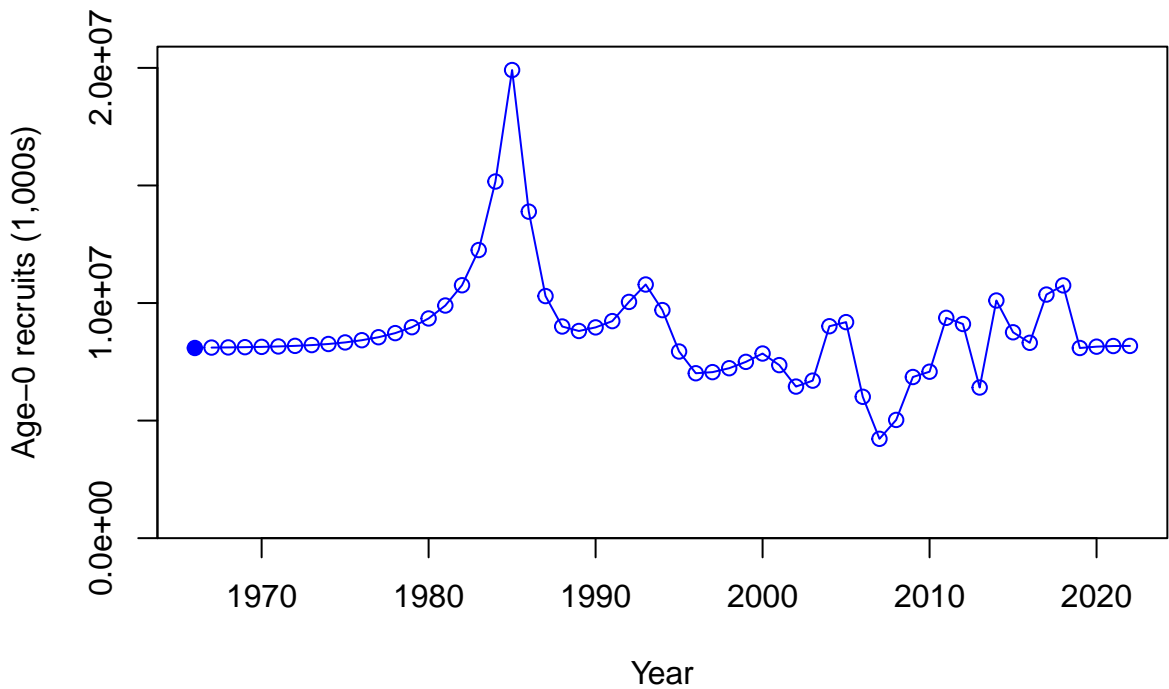
Relative spawning biomass: B/B_{MSY}



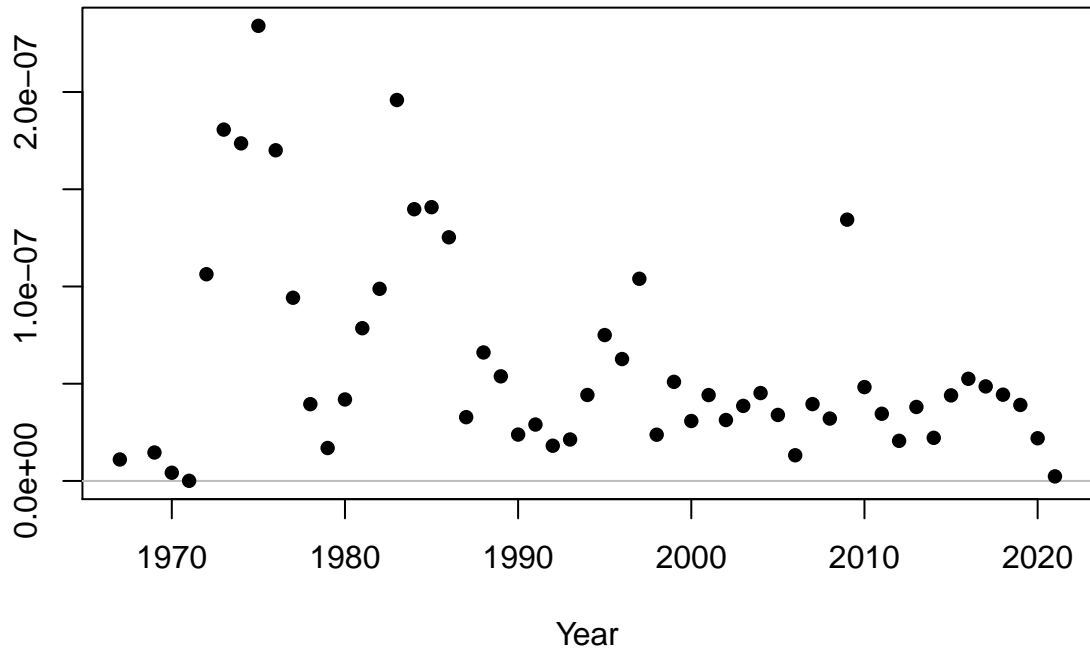


Summary biomass (mt)

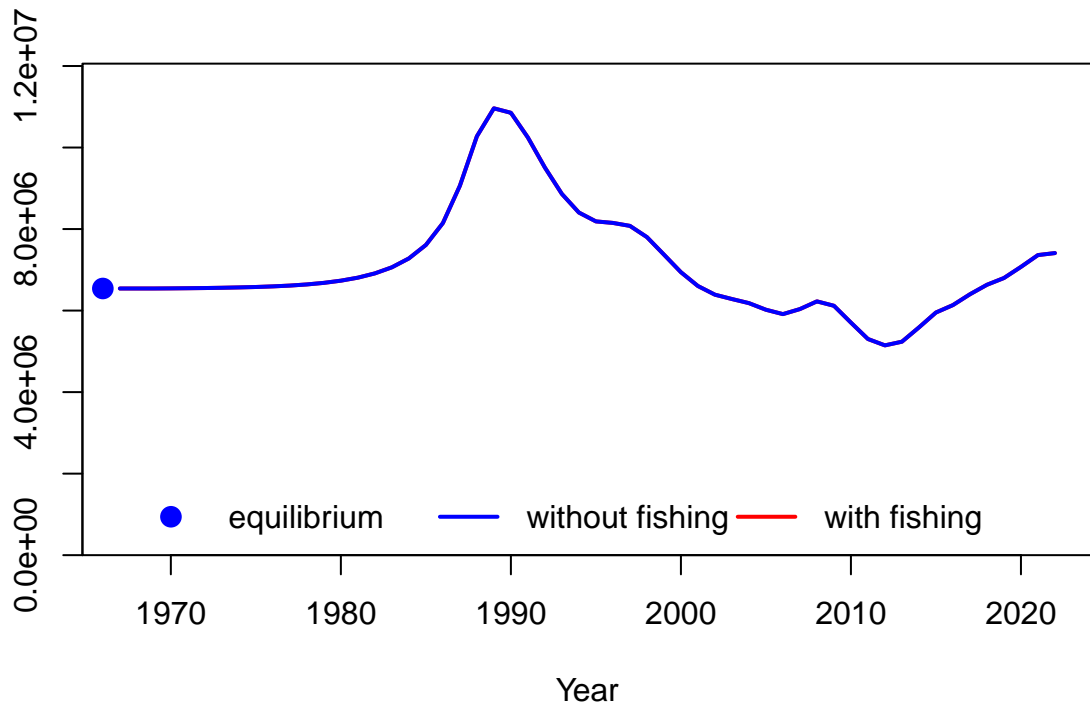




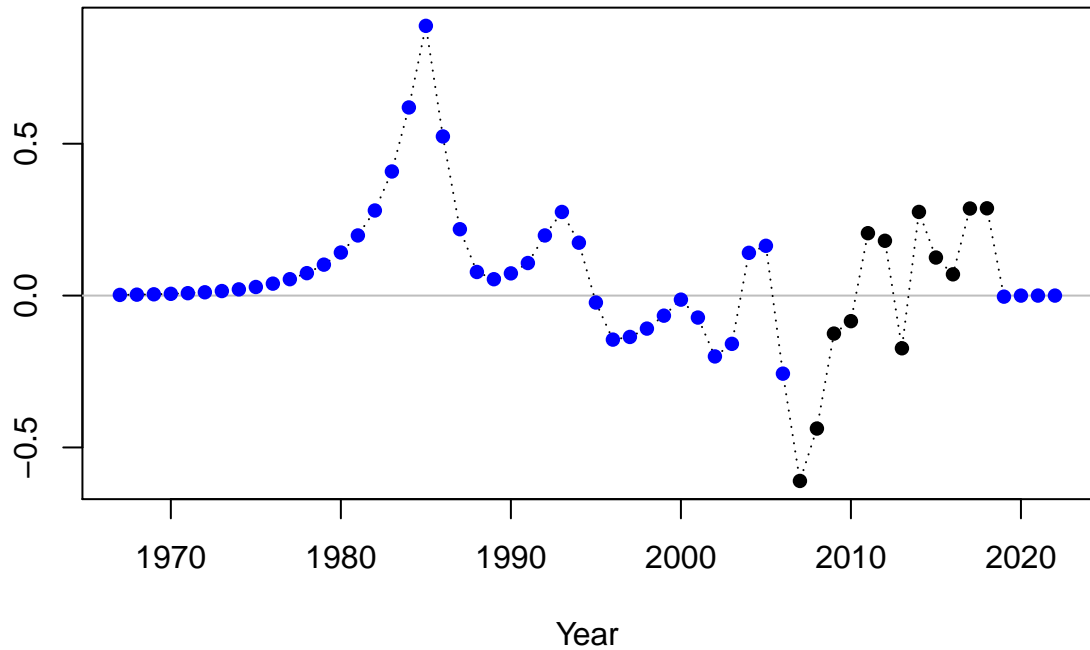
Summary Fishing Mortality



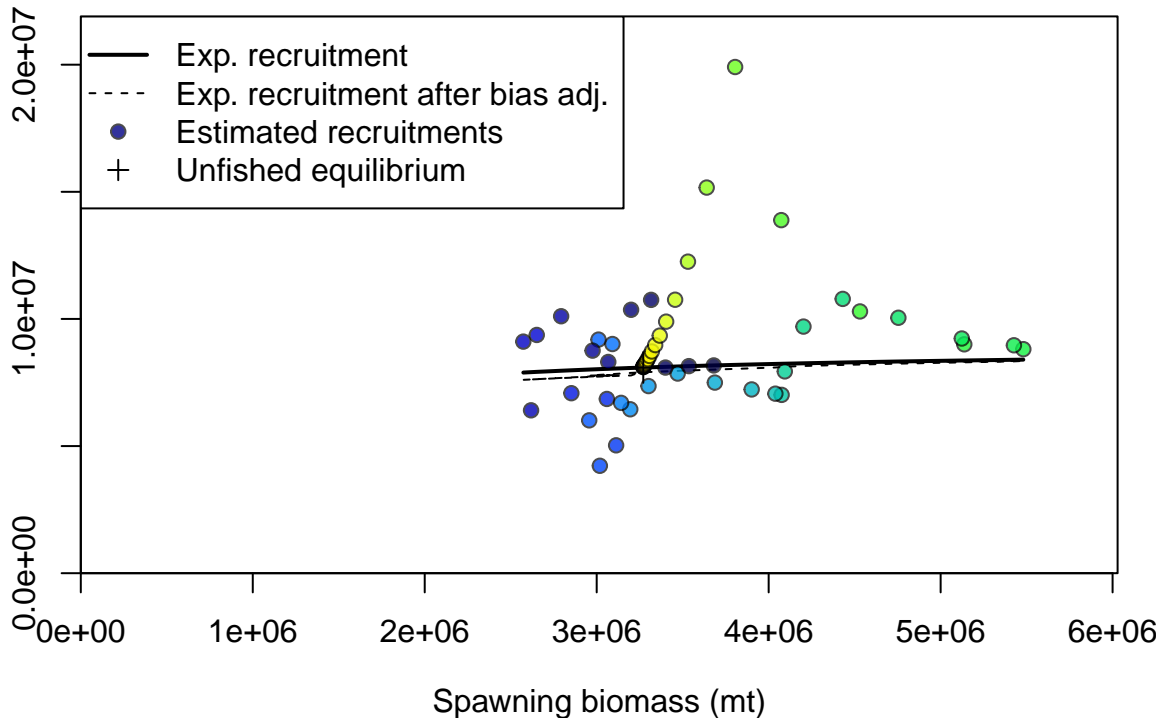
Spawning biomass (mt)



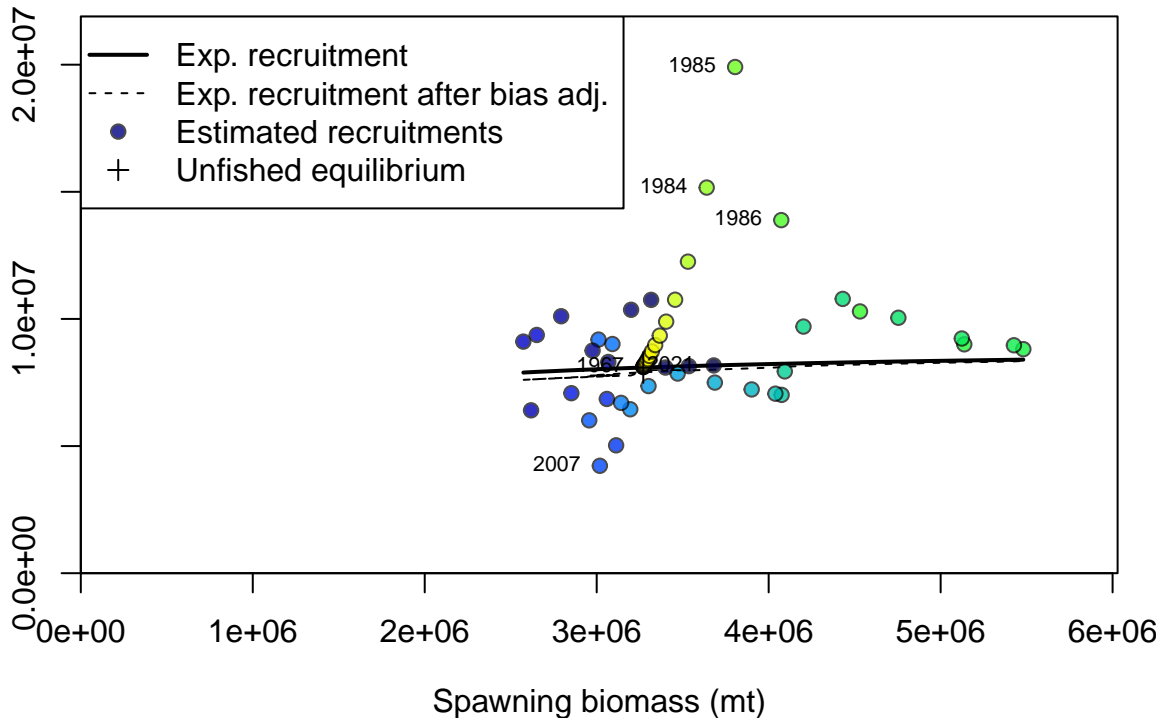
Log recruitment deviation



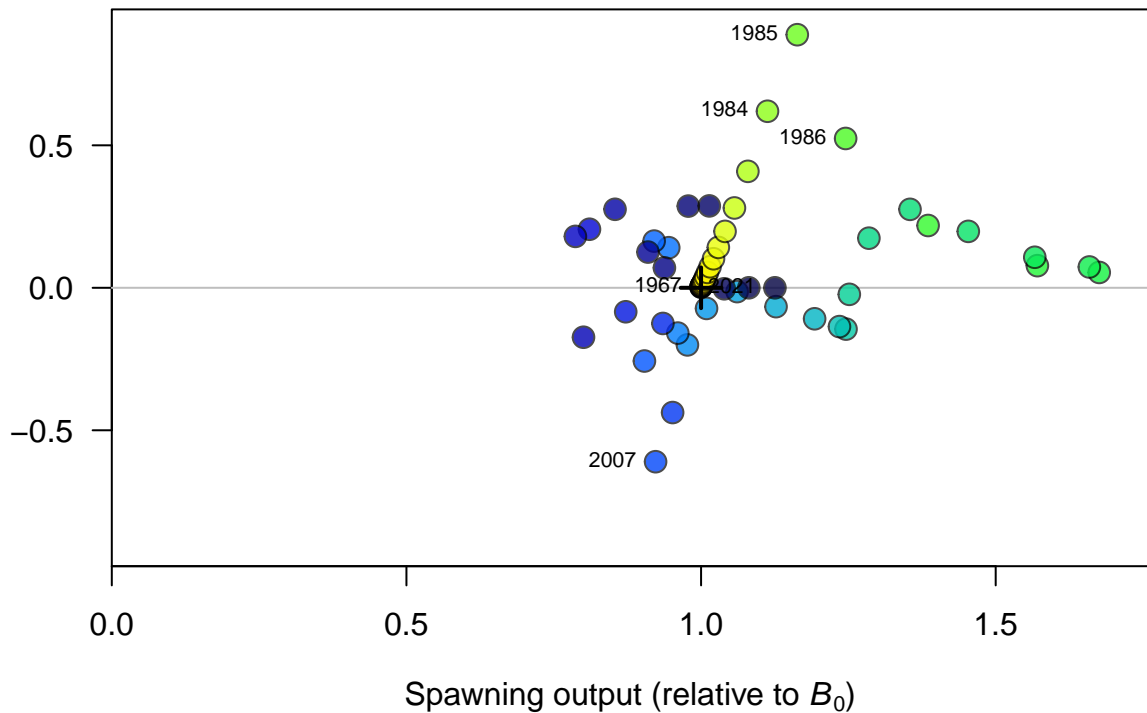
Recruitment (1,000s)

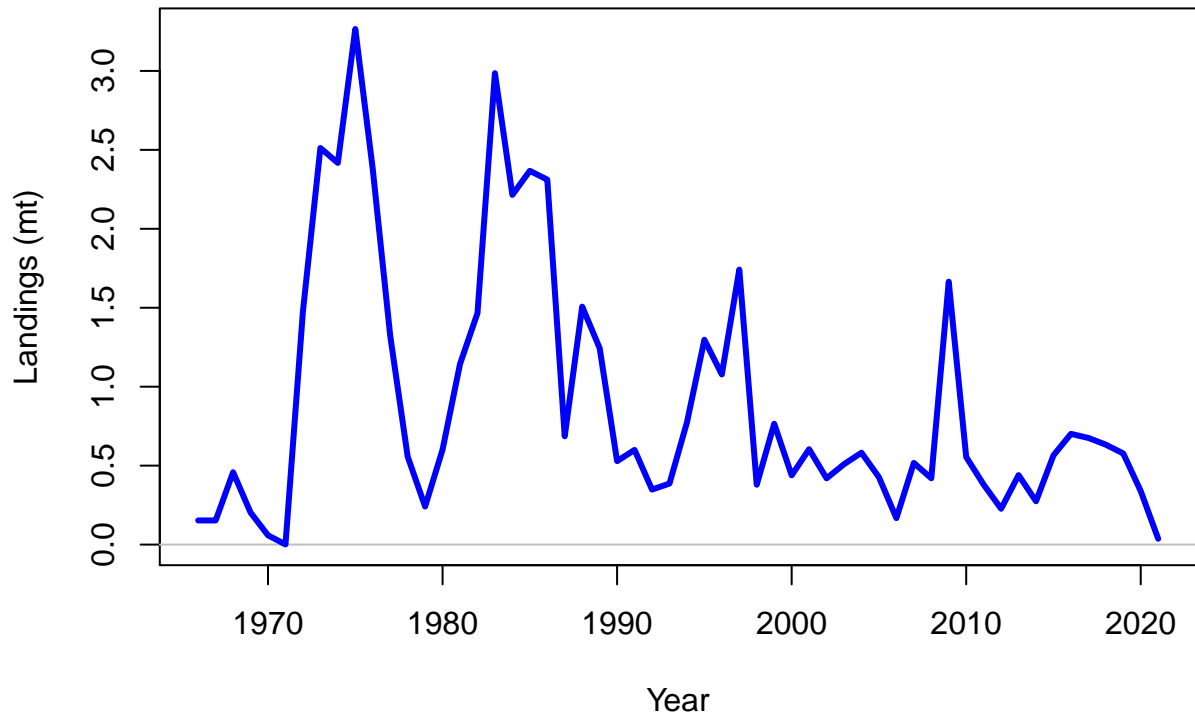


Recruitment (1,000s)

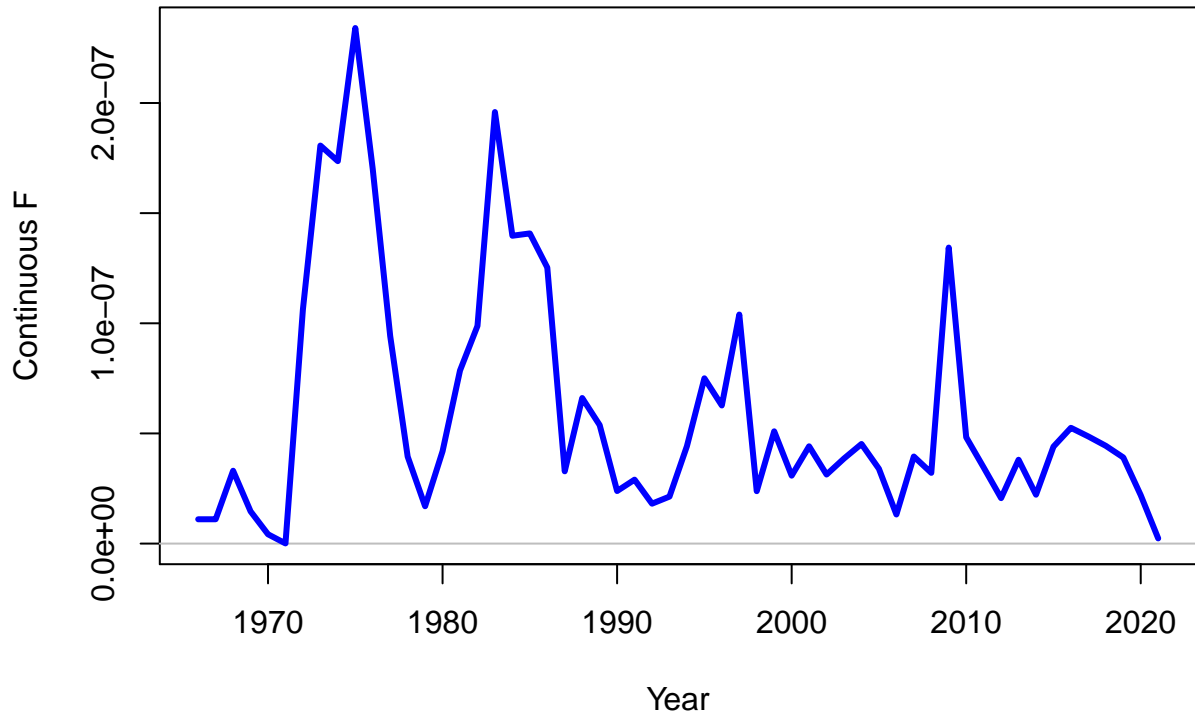


Log recruitment deviation

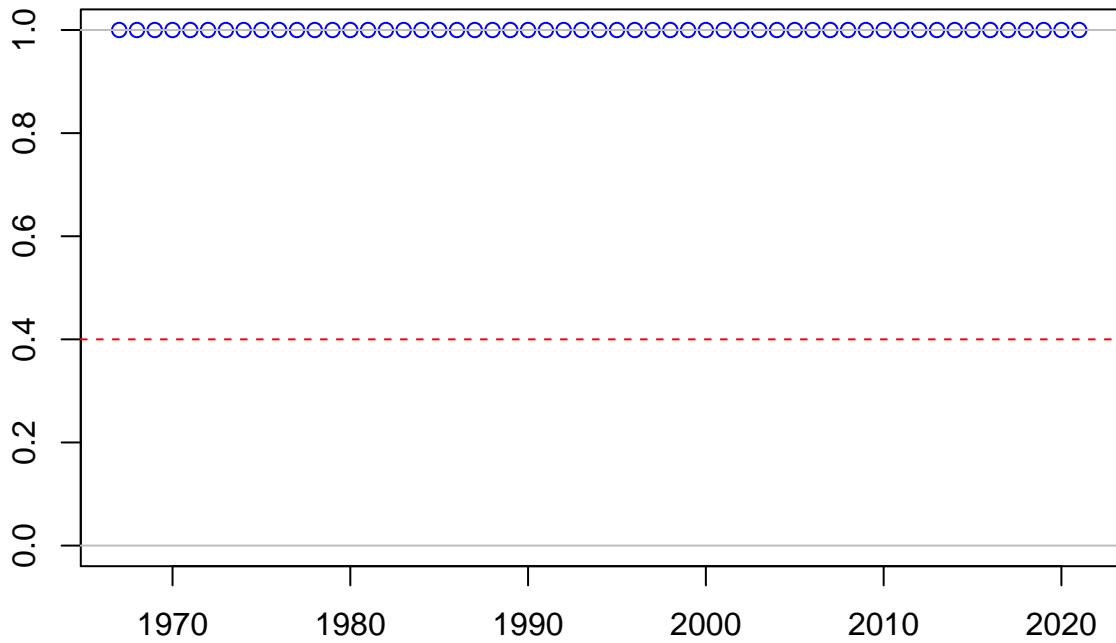




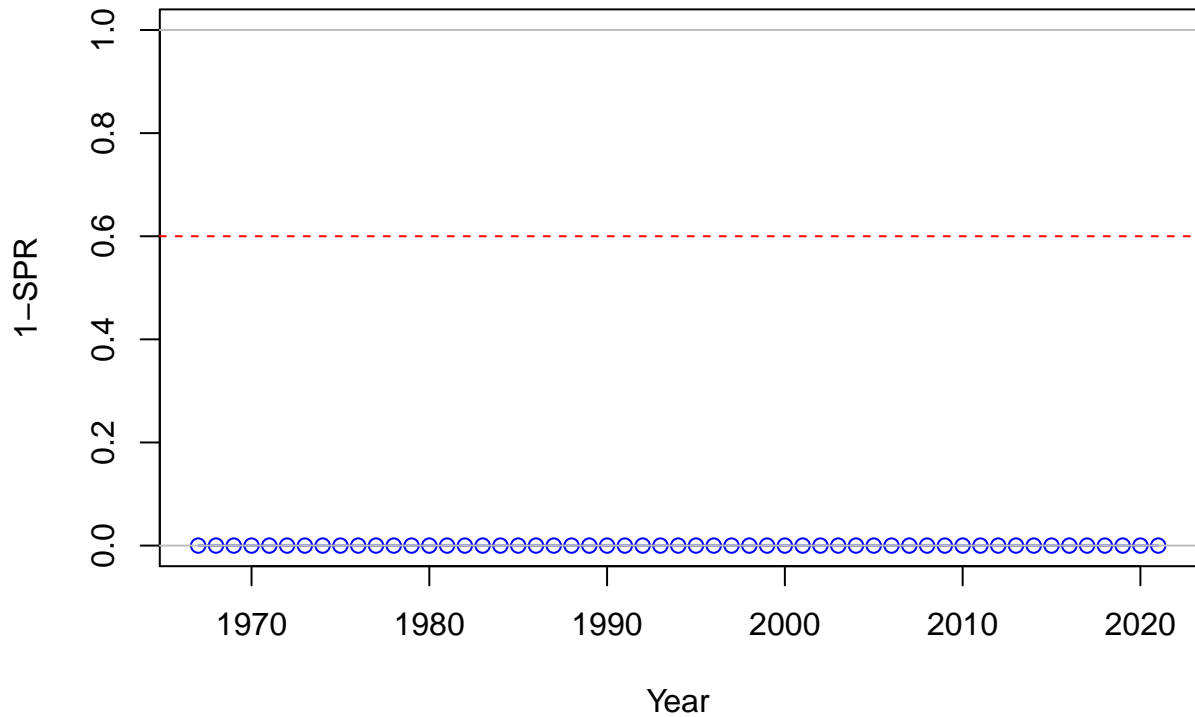




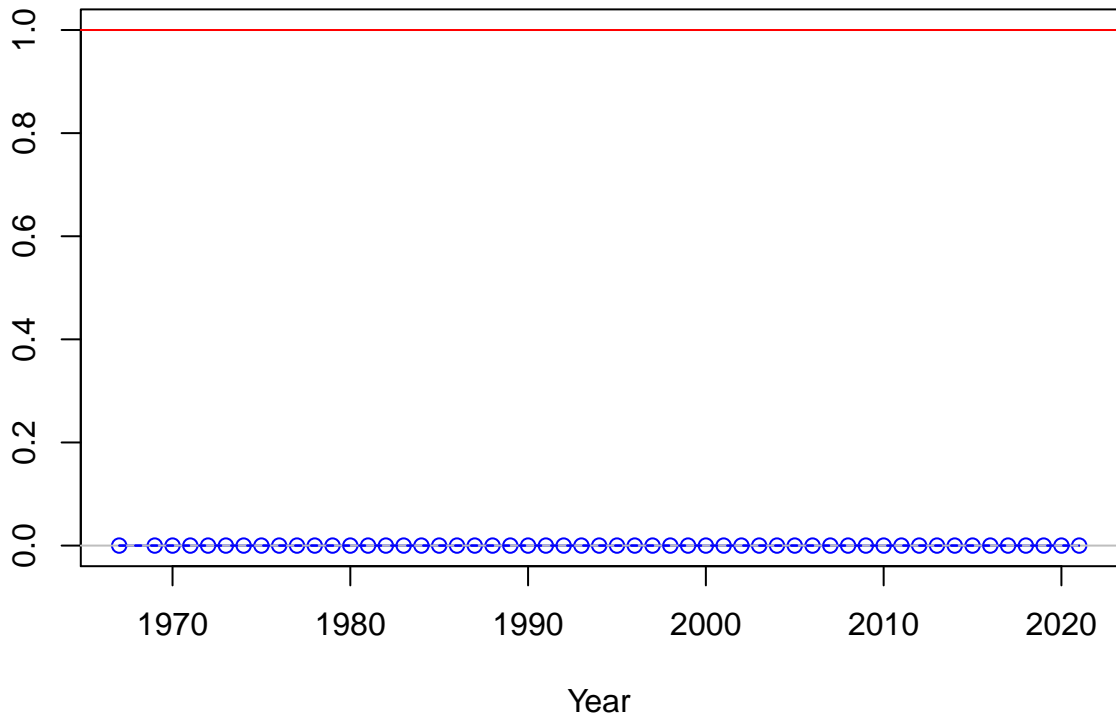
SPR



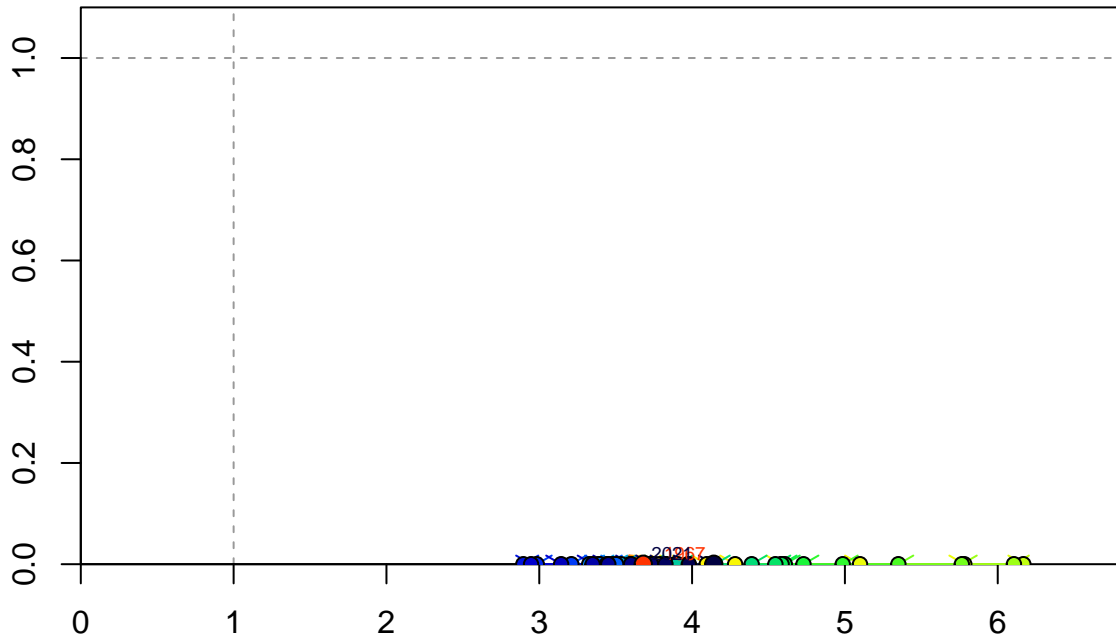
Year



Fishing intensity: 1-SPR

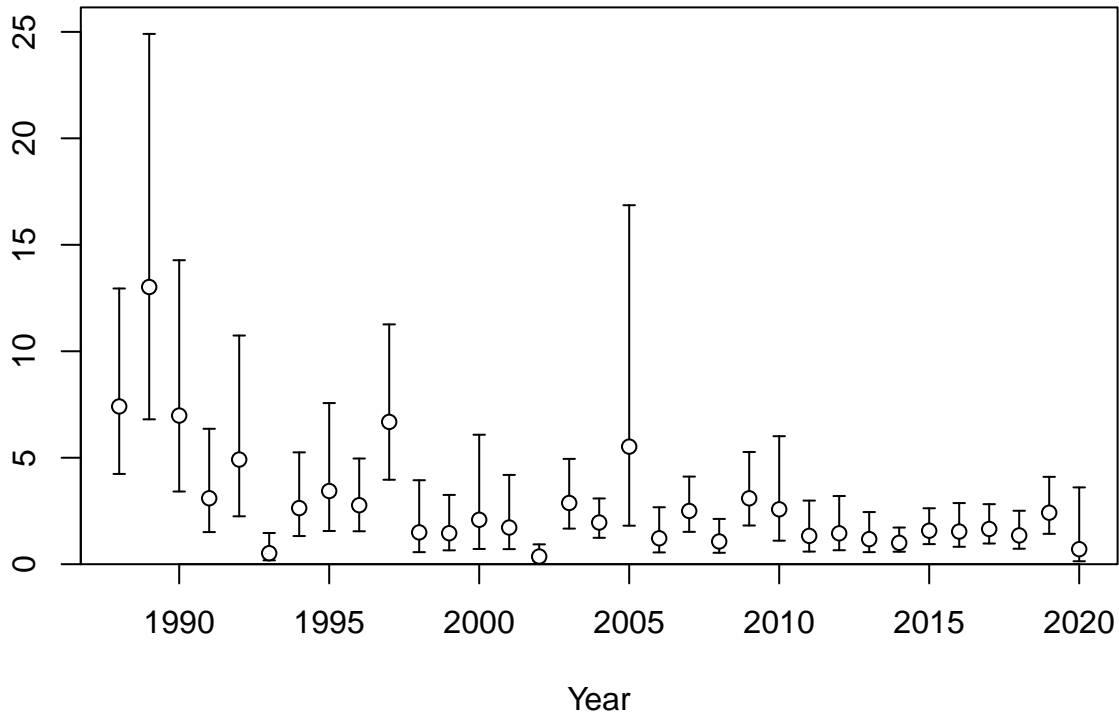


Fishing intensity: 1-SPR

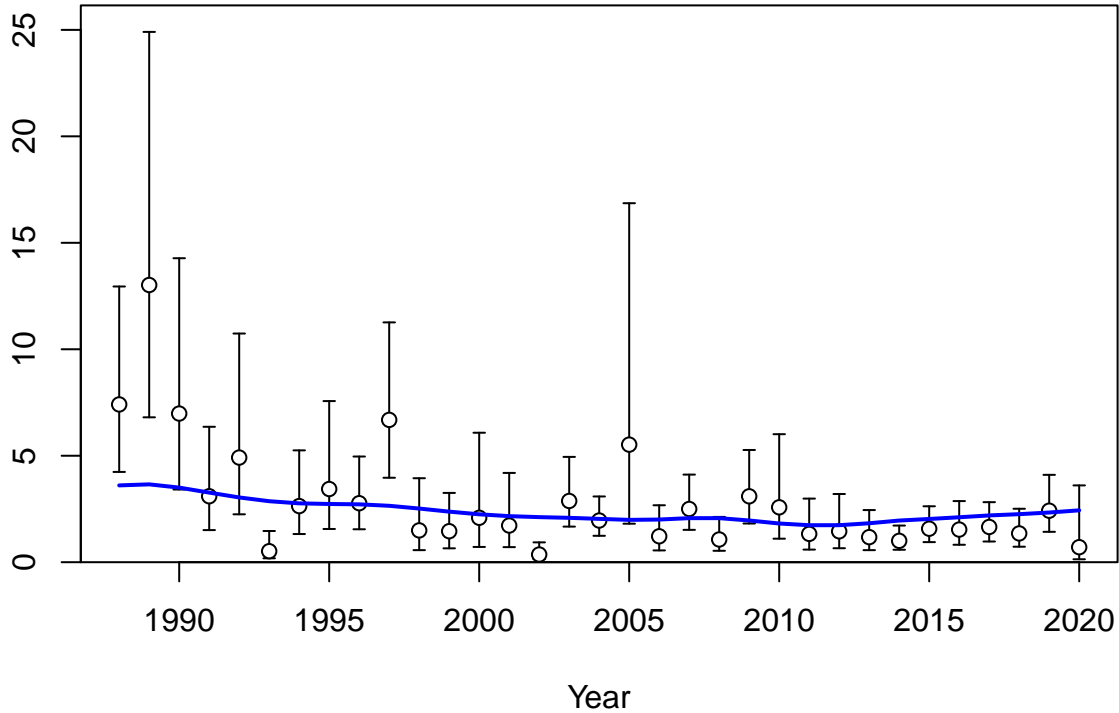


Relative spawning output: B/B_{MSY}

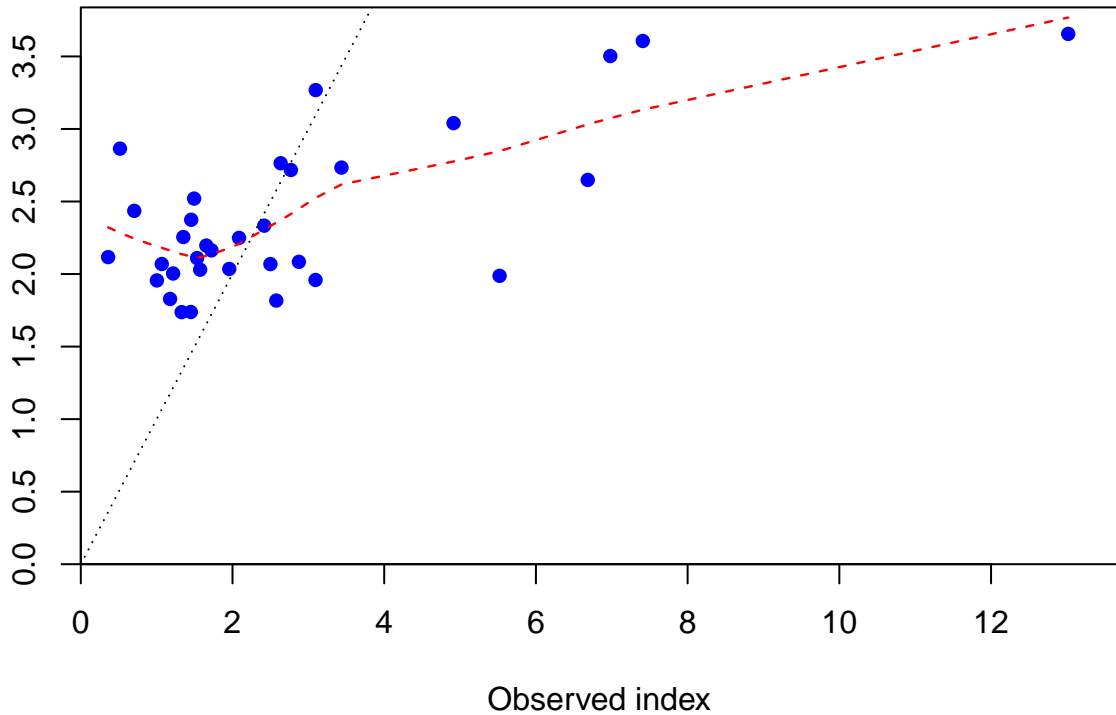
Index



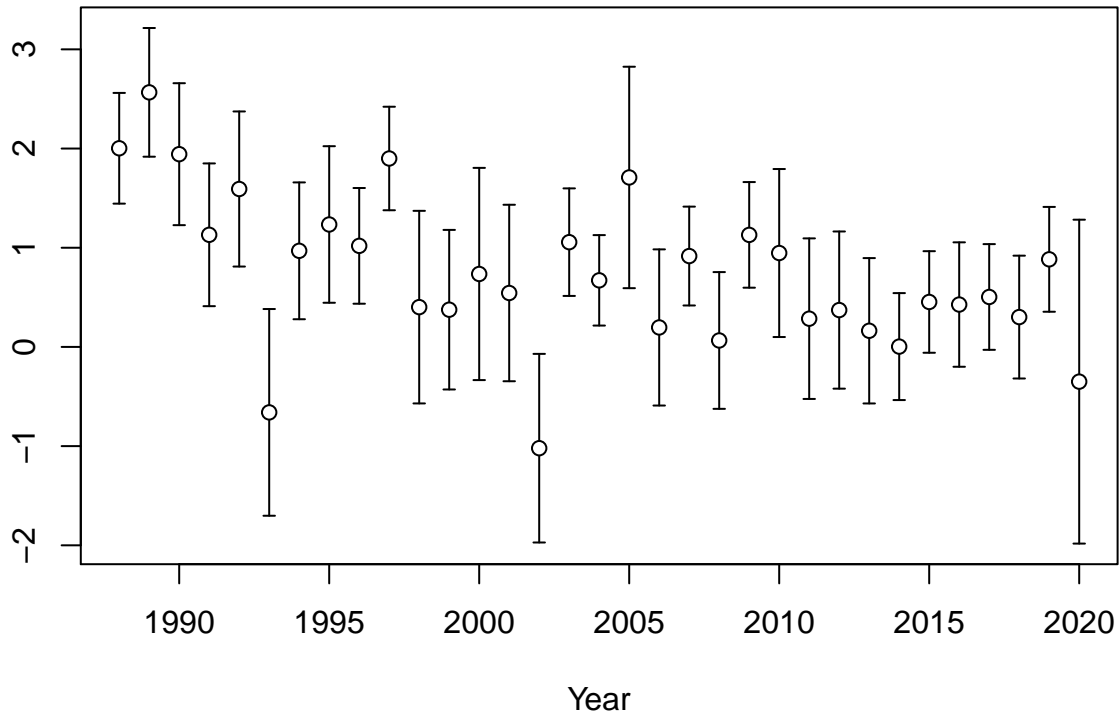
Index

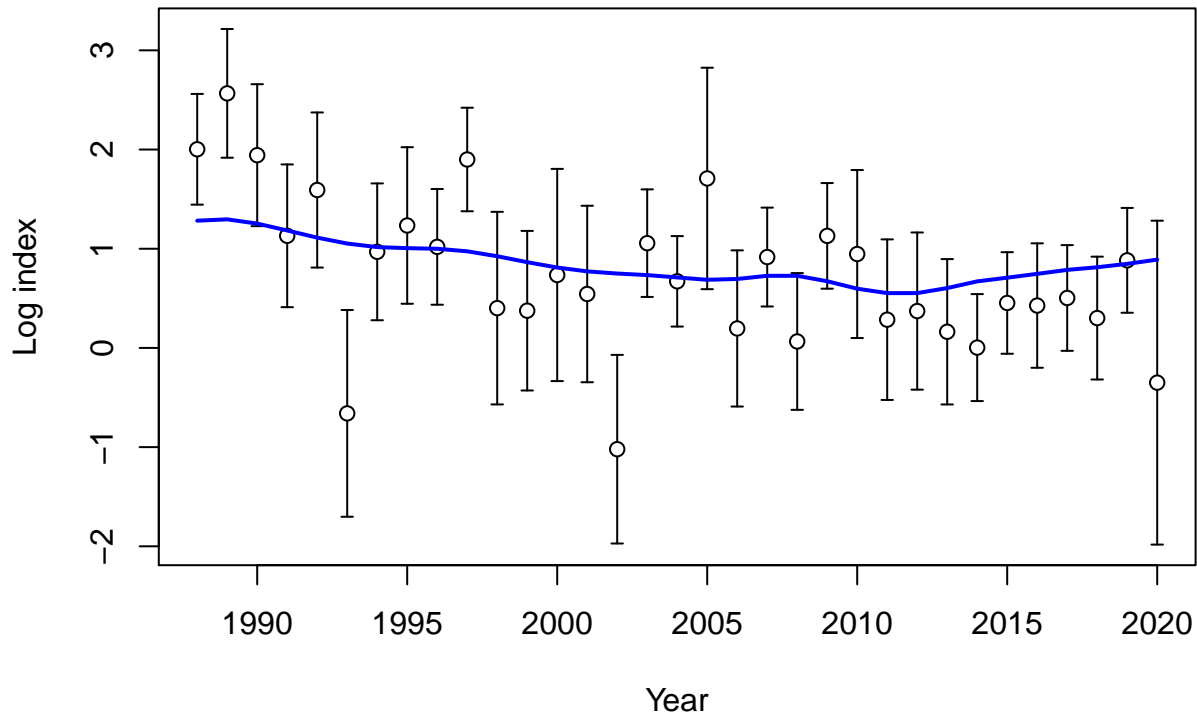


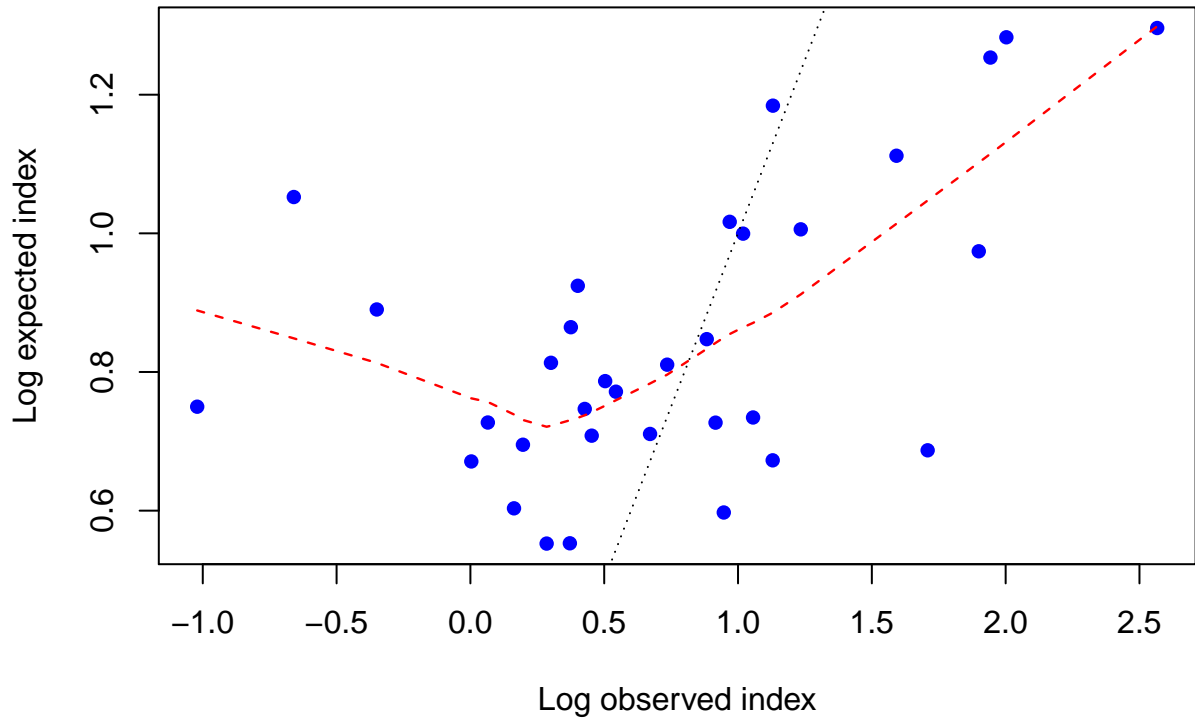
Expected index



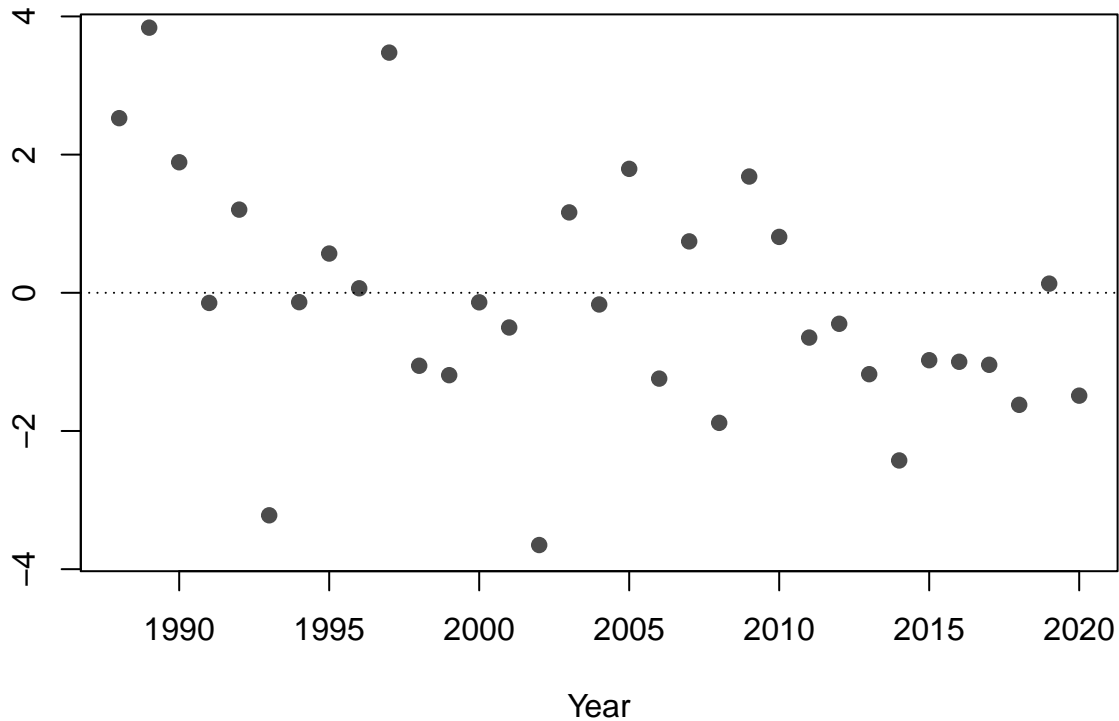
Log index

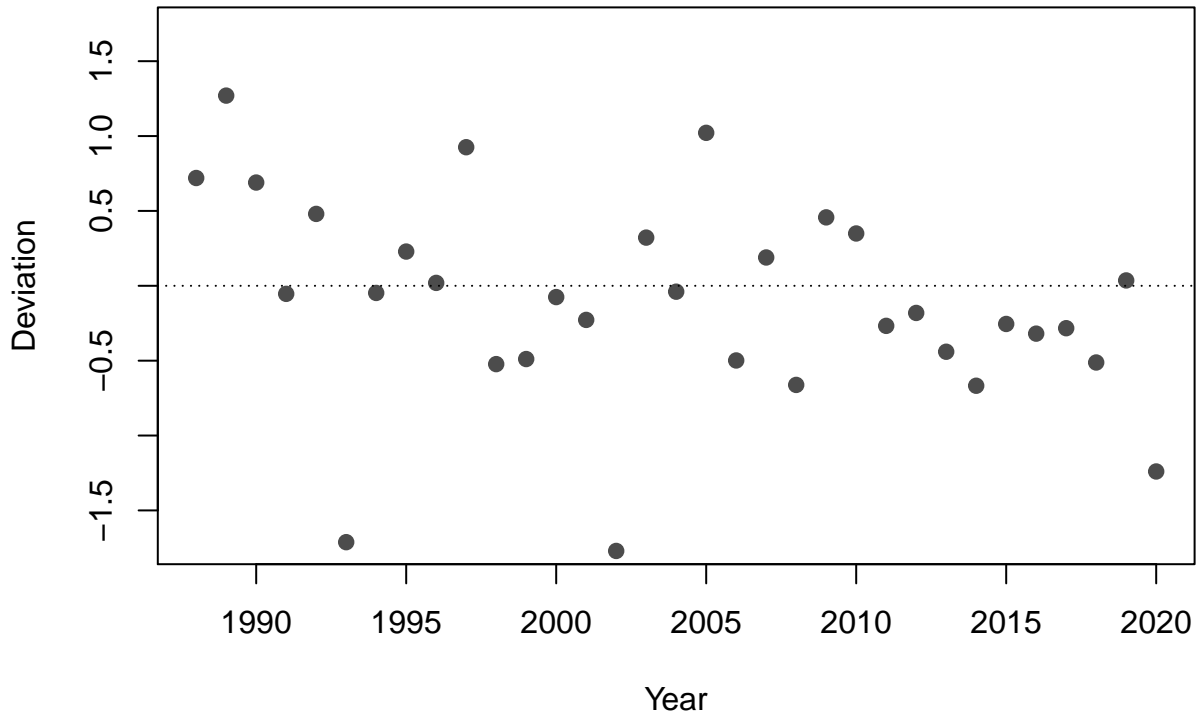




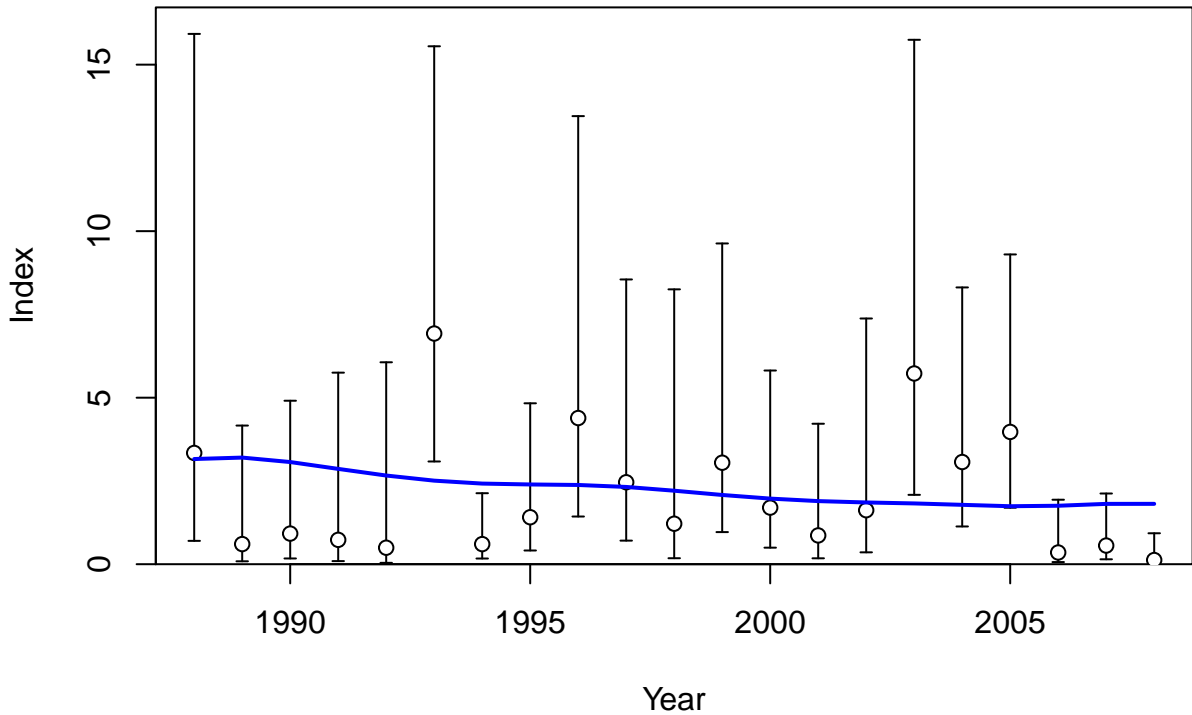


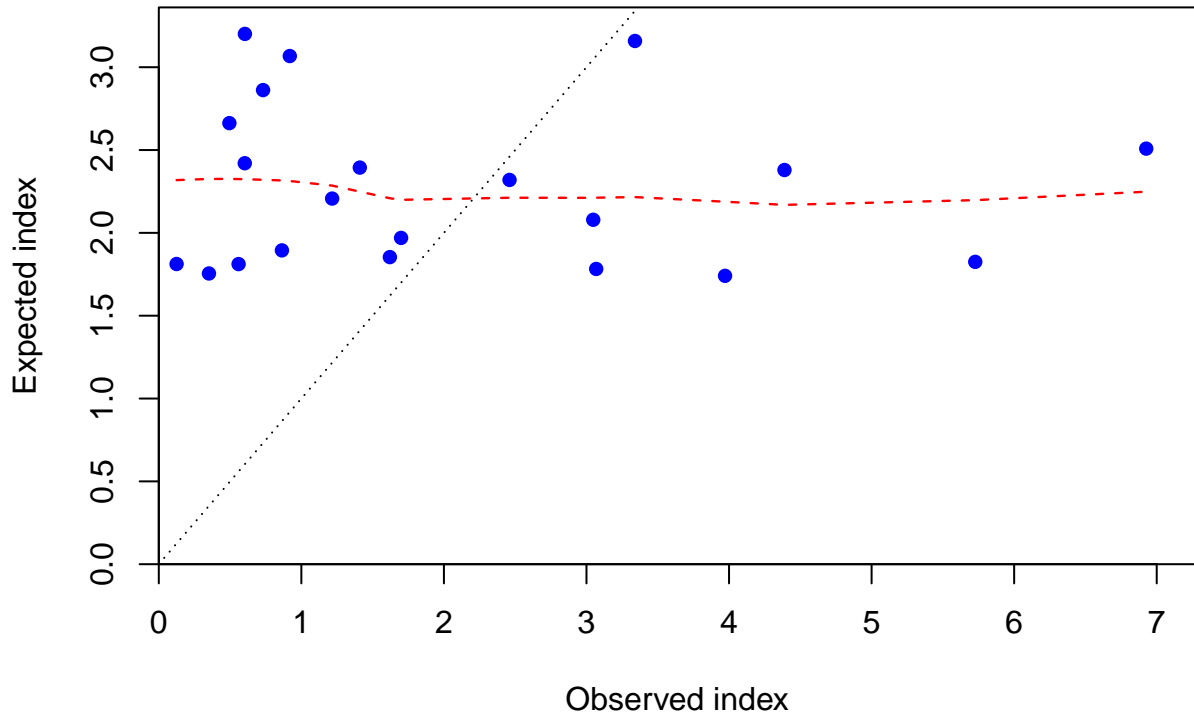
Residual







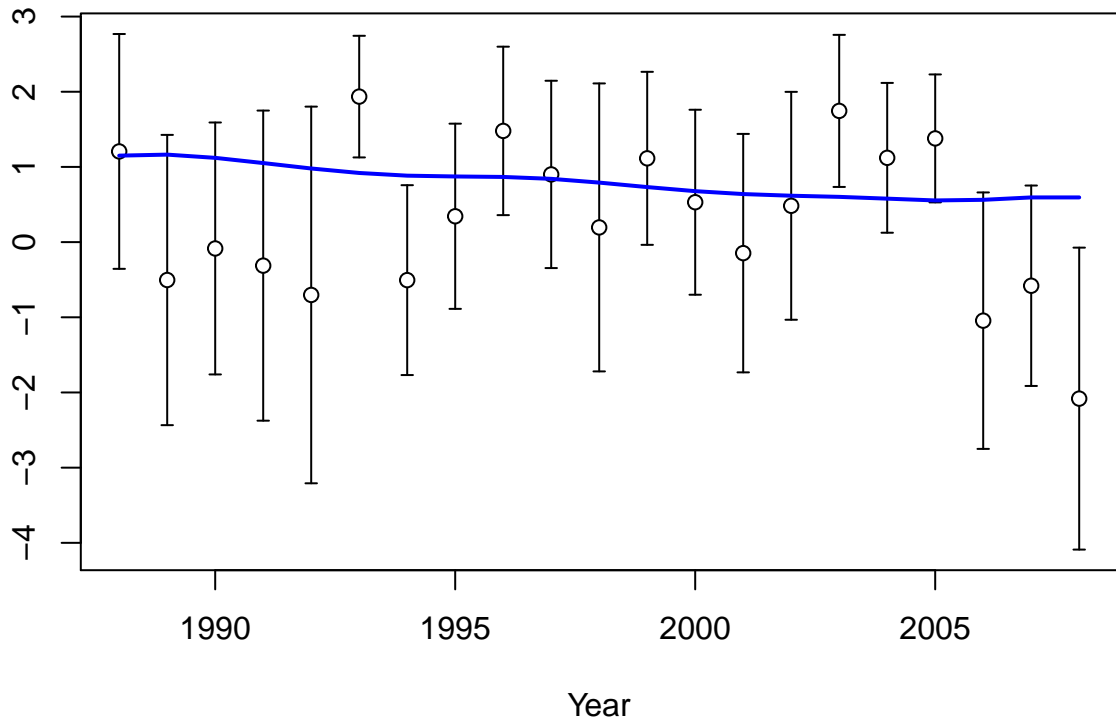


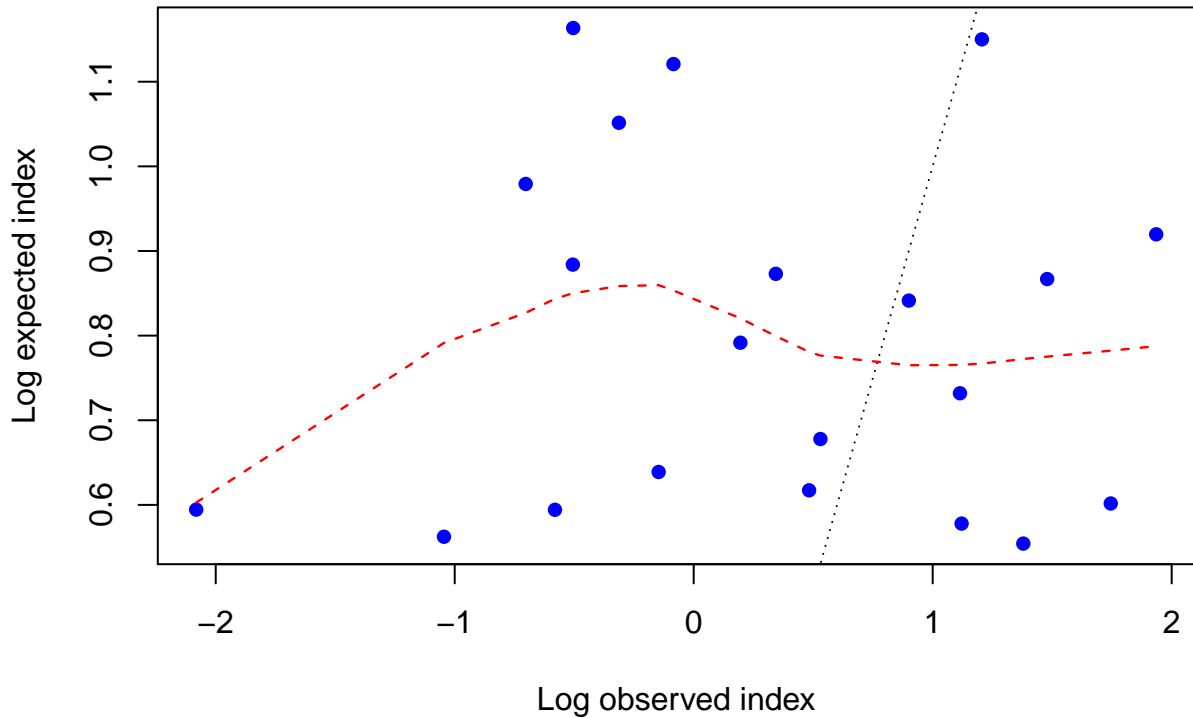


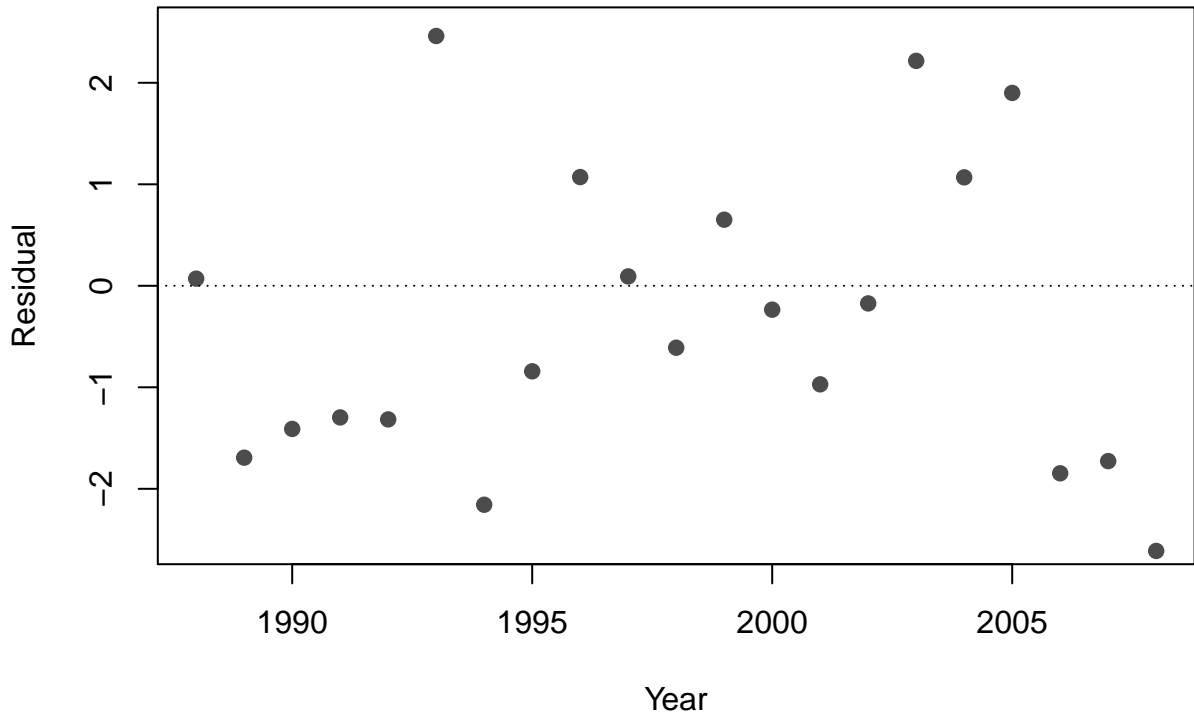
Log index

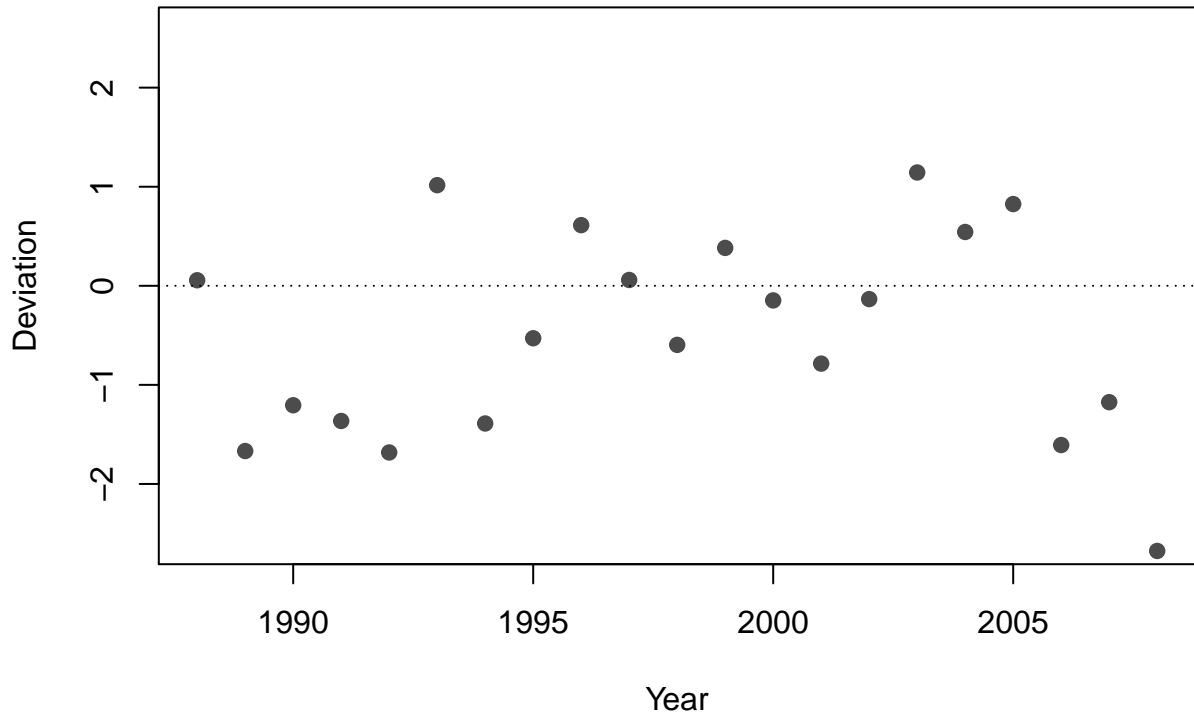


Log index

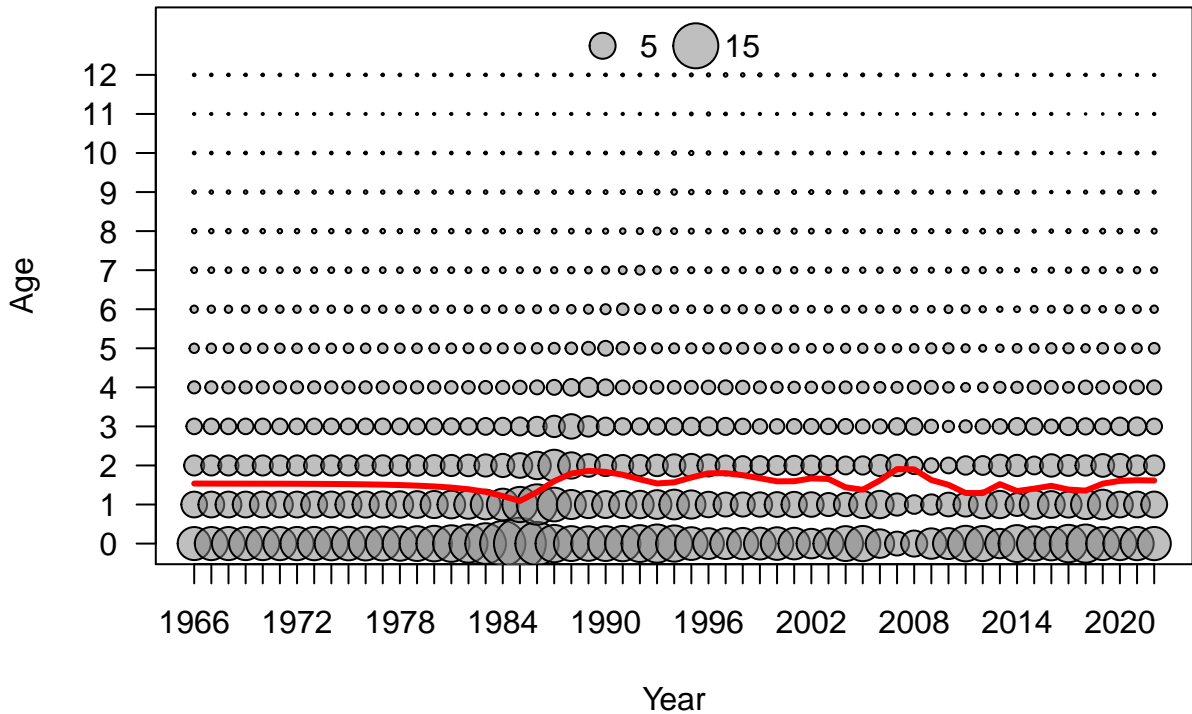


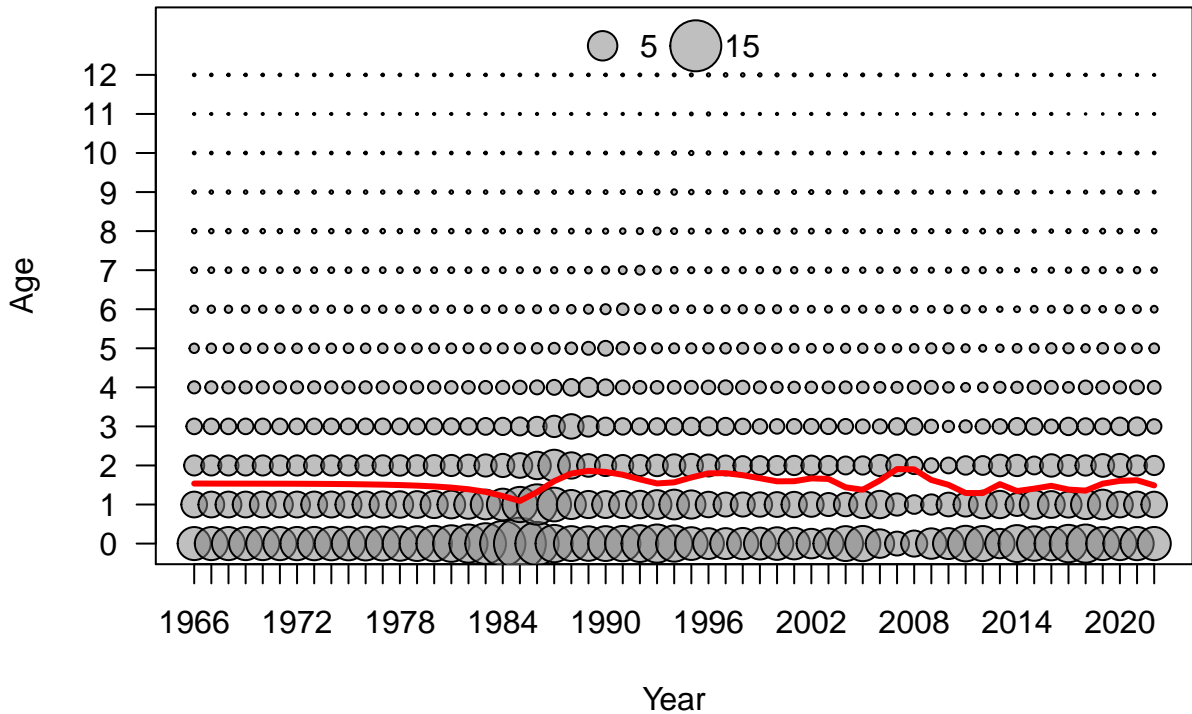


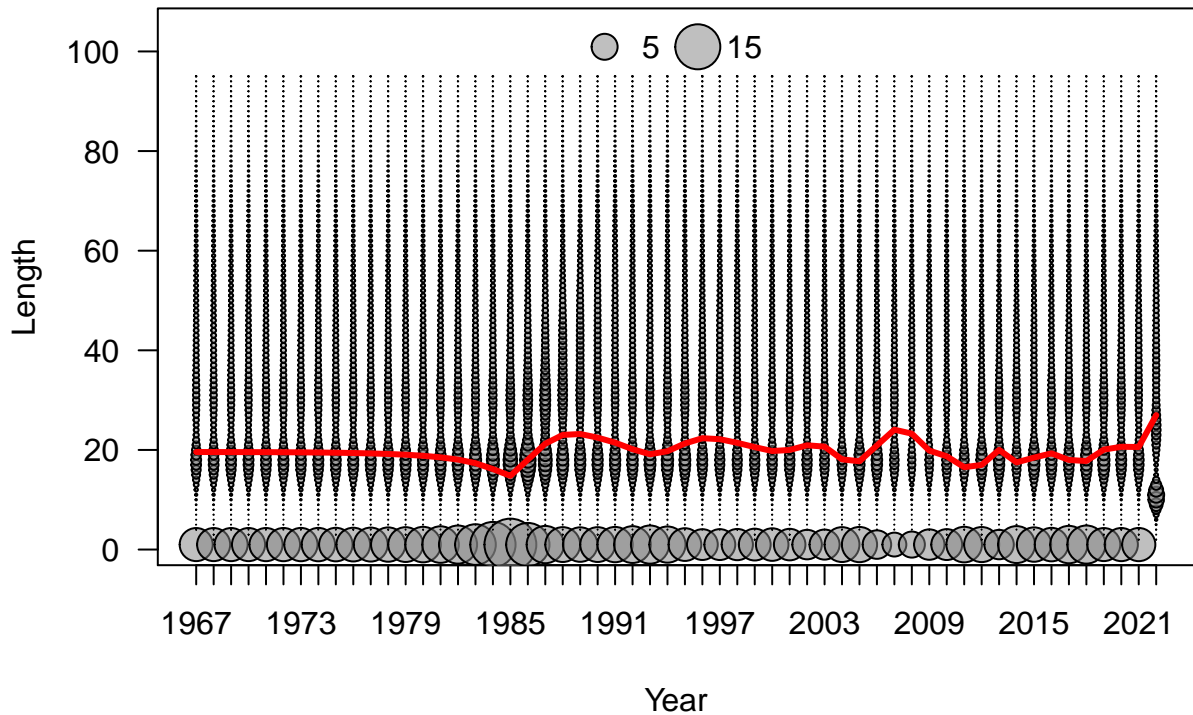


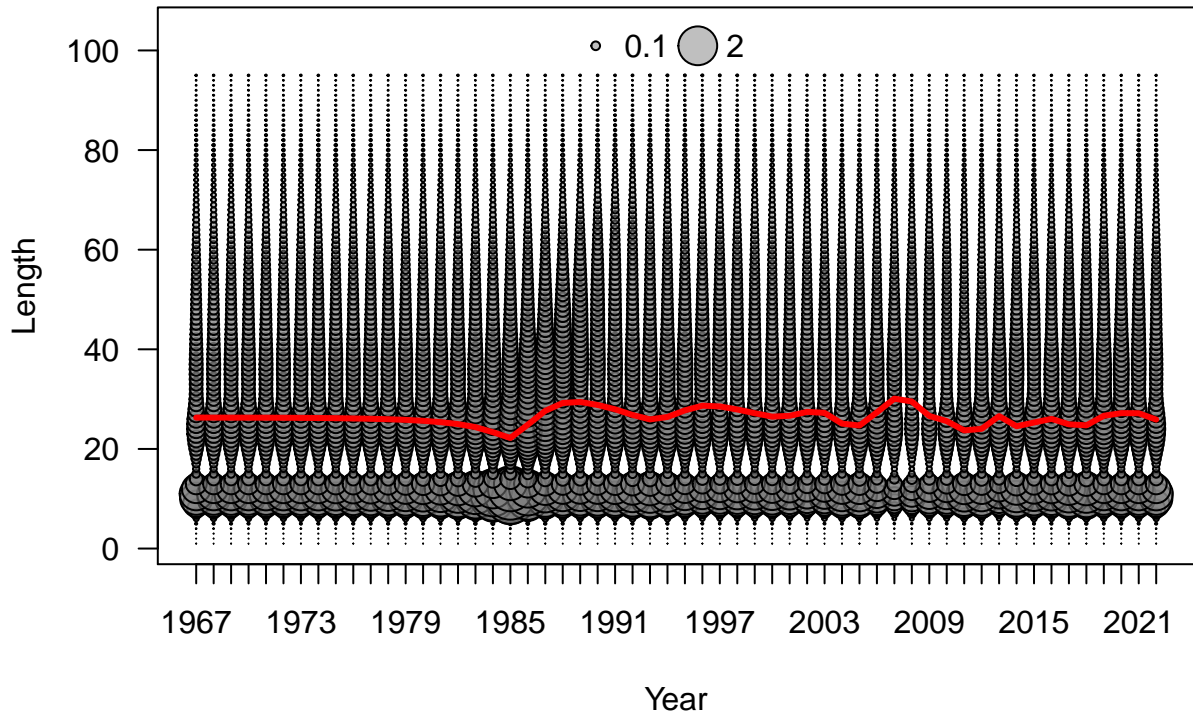


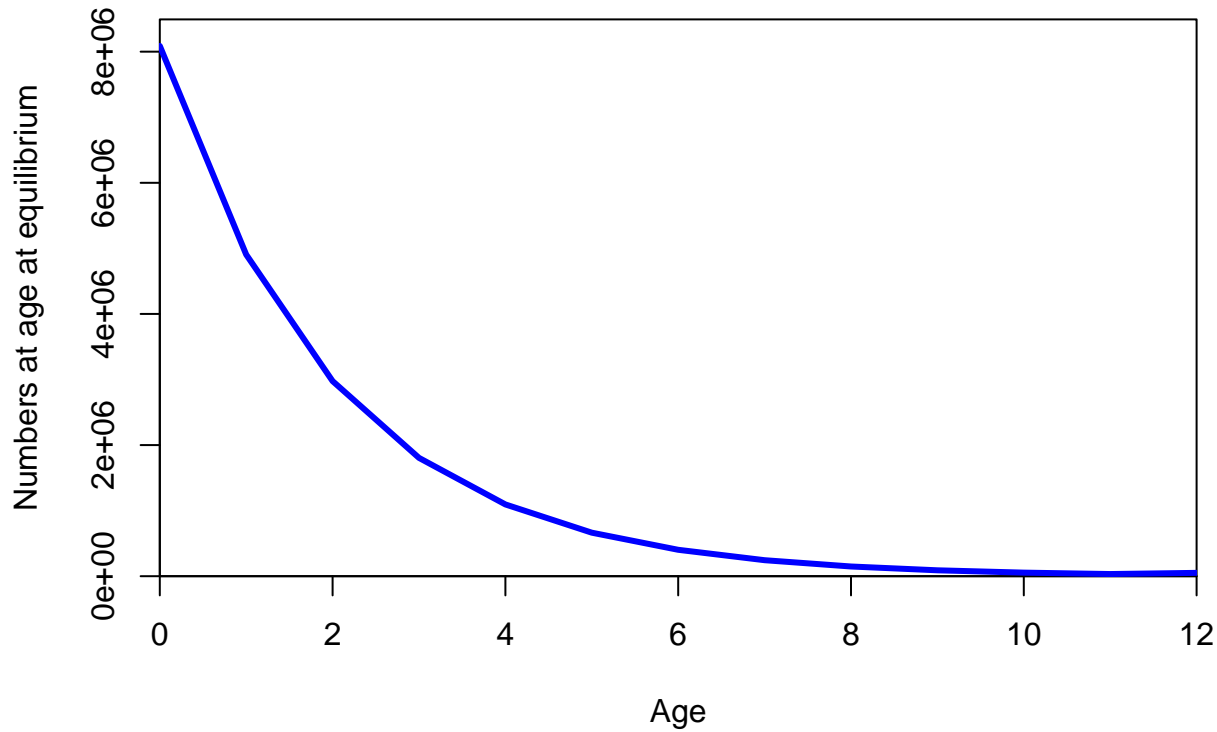






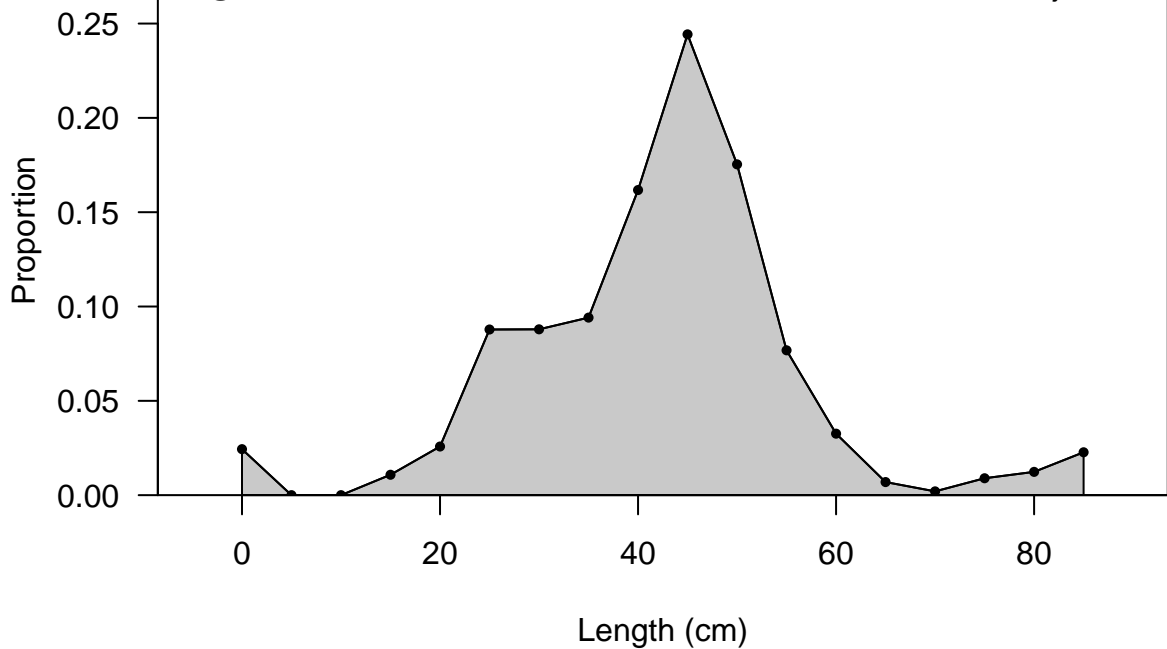


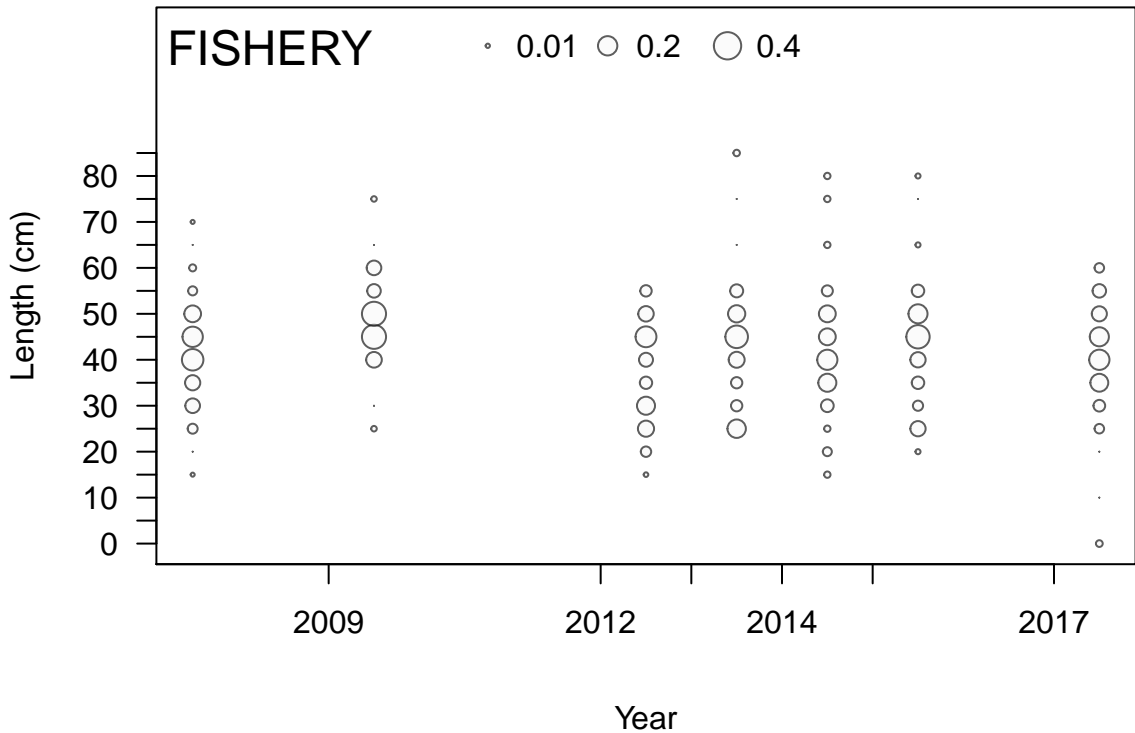




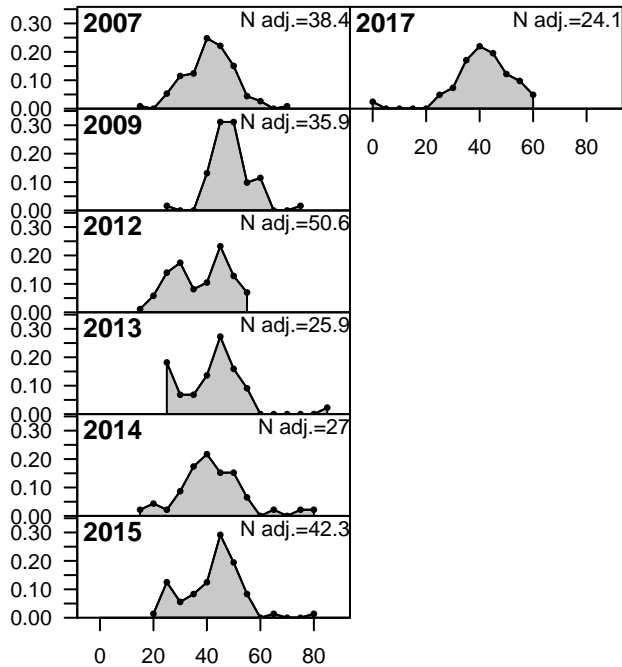
FISHERY

Sum of N adj.=244.2





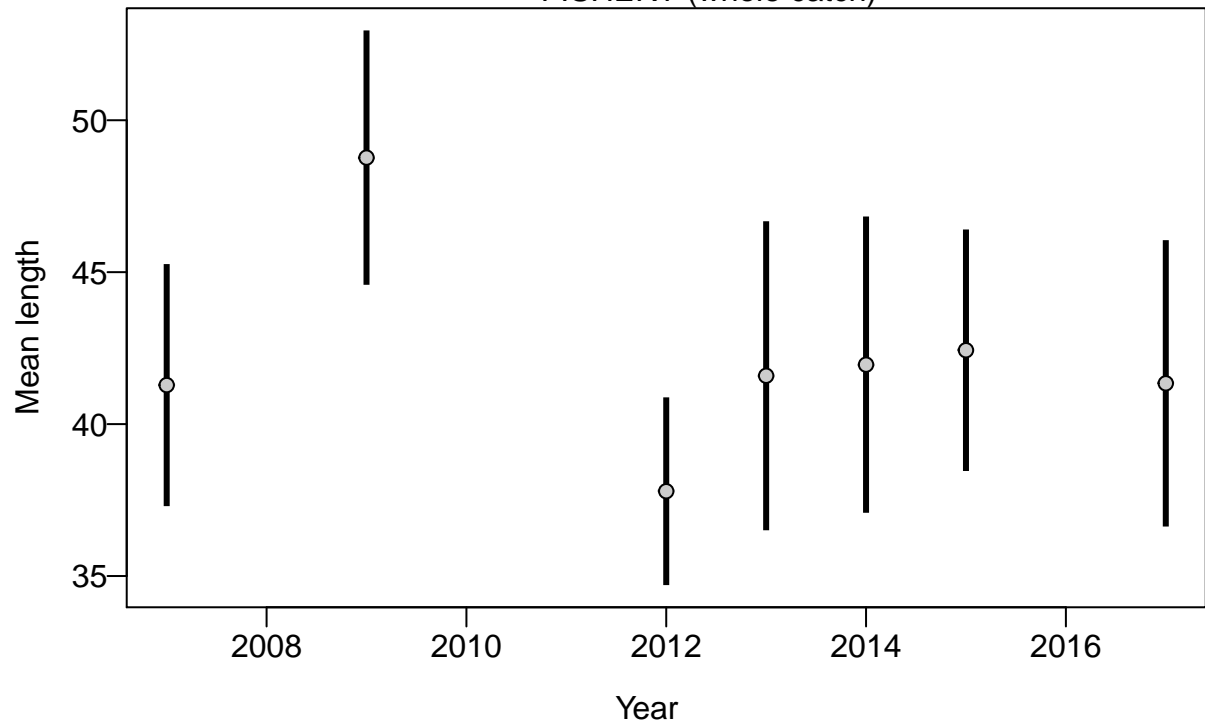
Proportion



Length (cm)

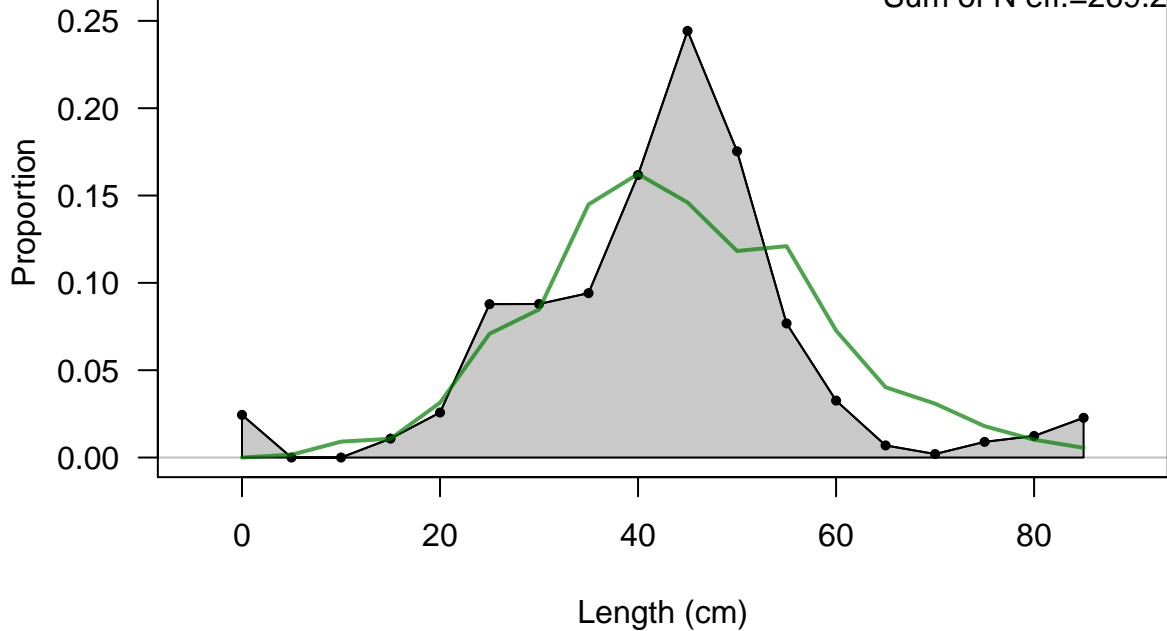


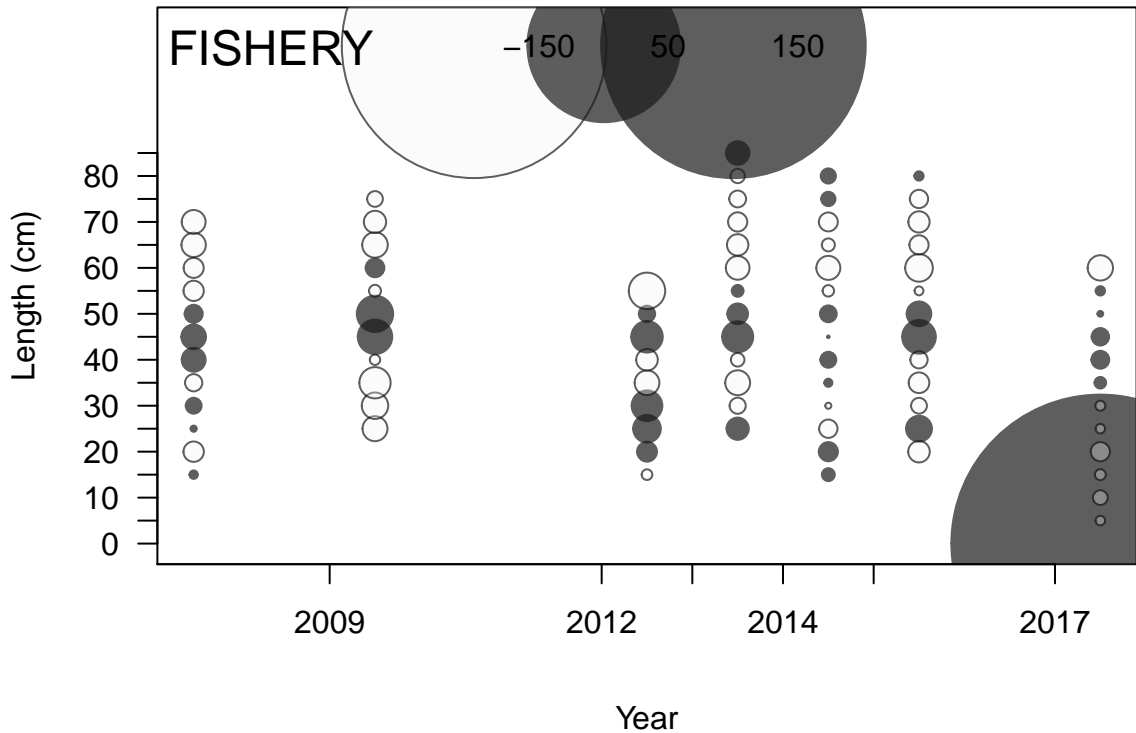
FISHERY (whole catch)



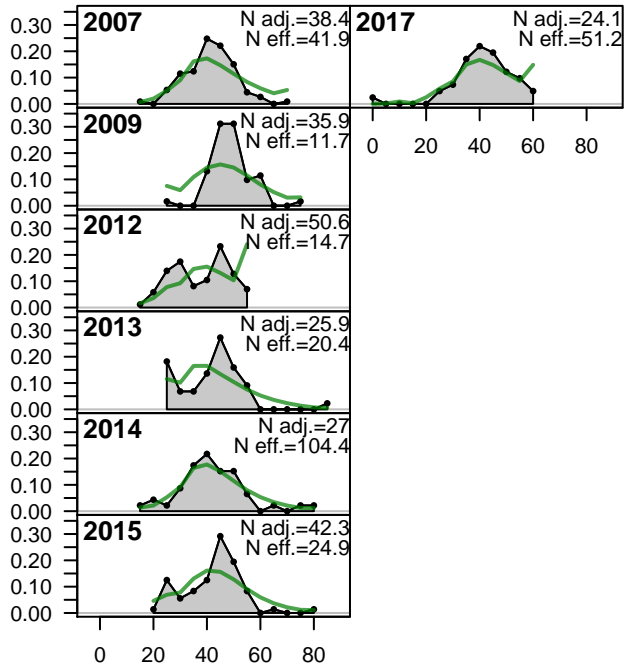
FISHERY

Sum of N adj.=244.2
Sum of N eff.=269.2

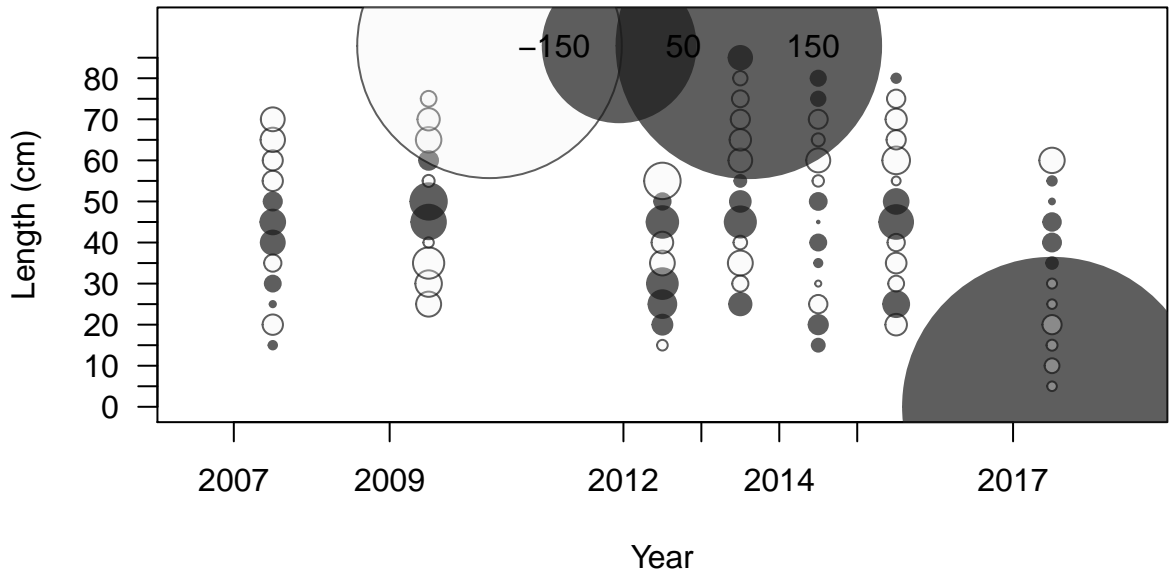


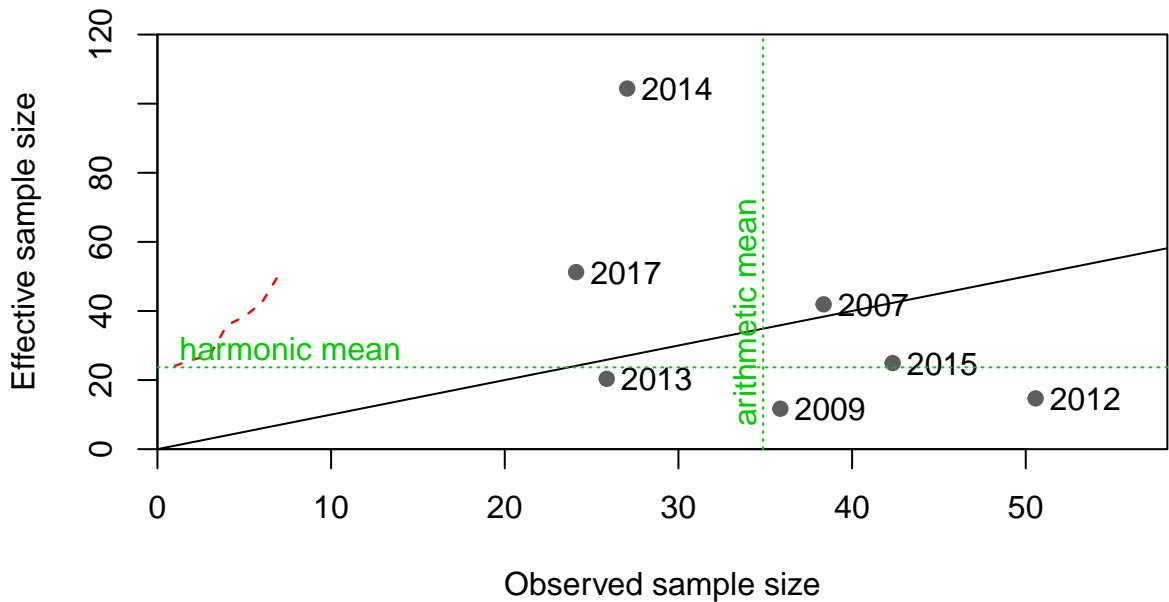


Proportion

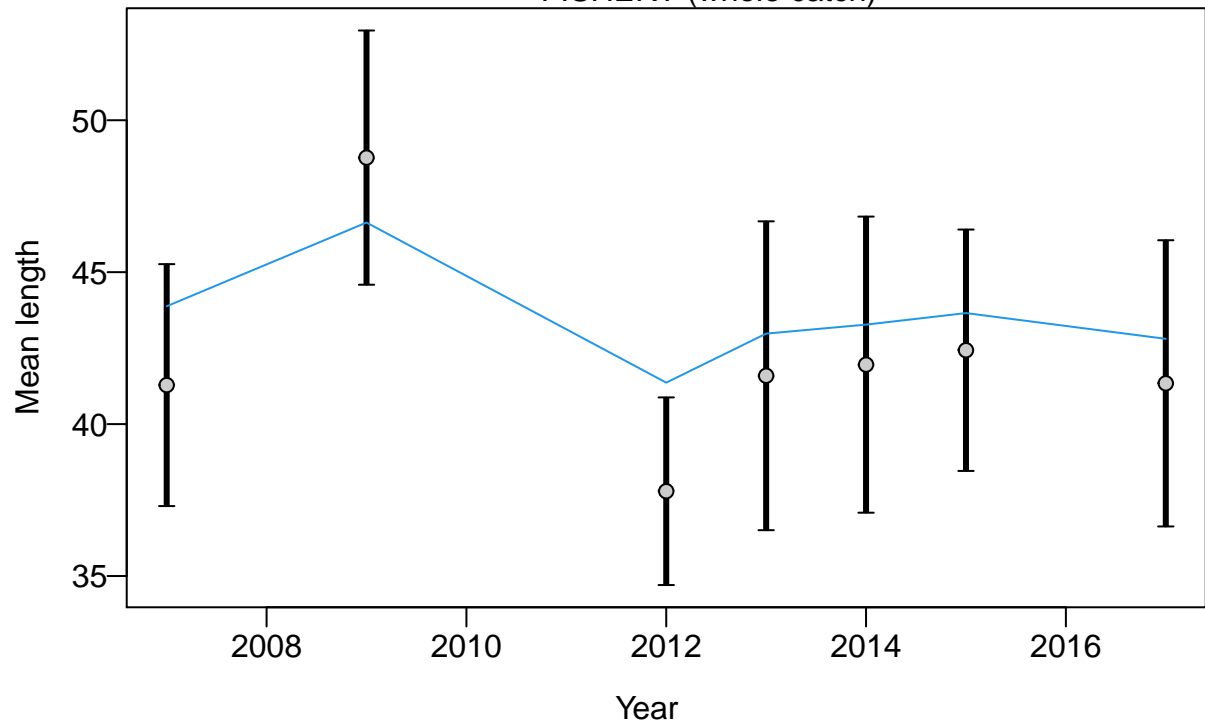


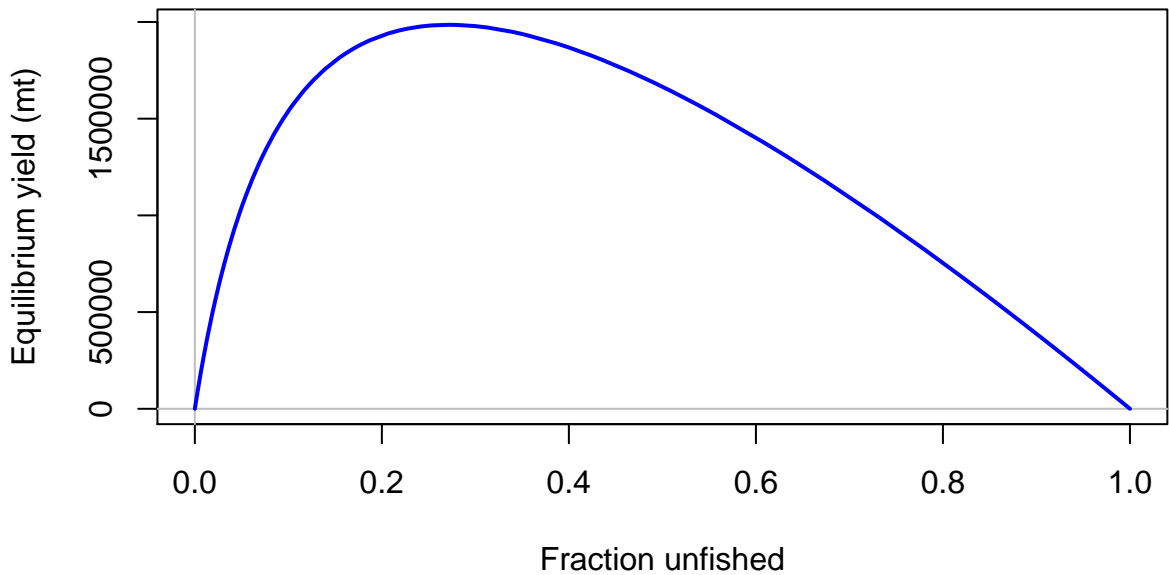
Length (cm)

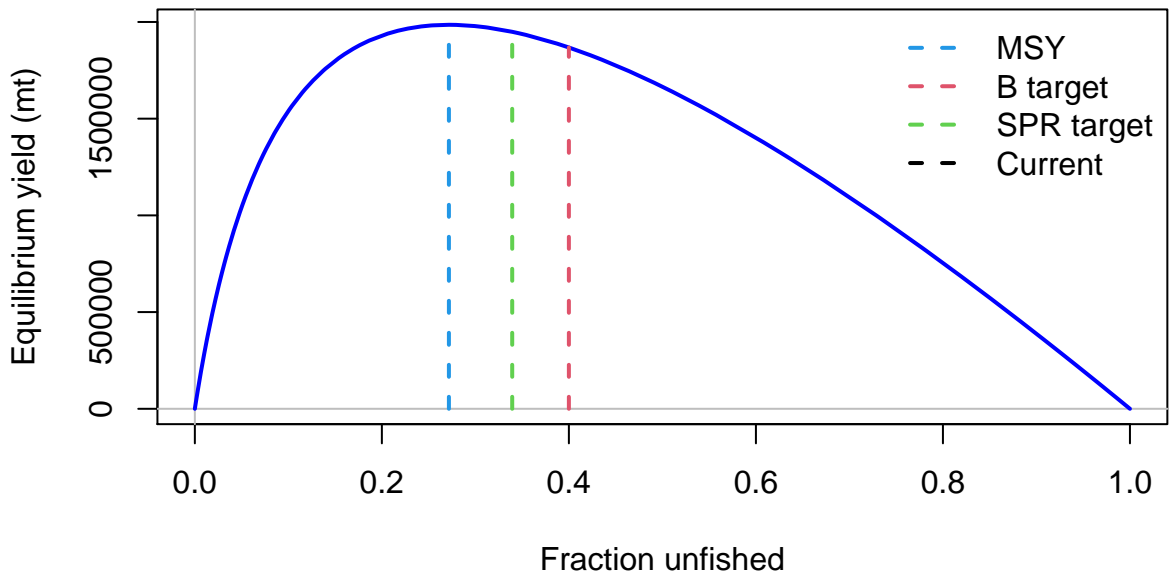




FISHERY (whole catch)







Surplus production (mt)

$1\text{e}+06$
 $-1\text{e}+06$

$0.0\text{e}+00$

$5.0\text{e}+06$

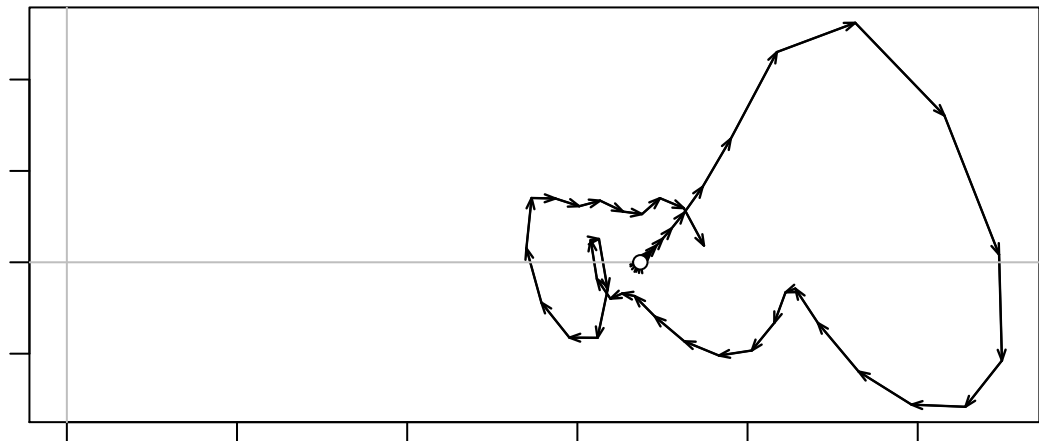
$1.0\text{e}+07$

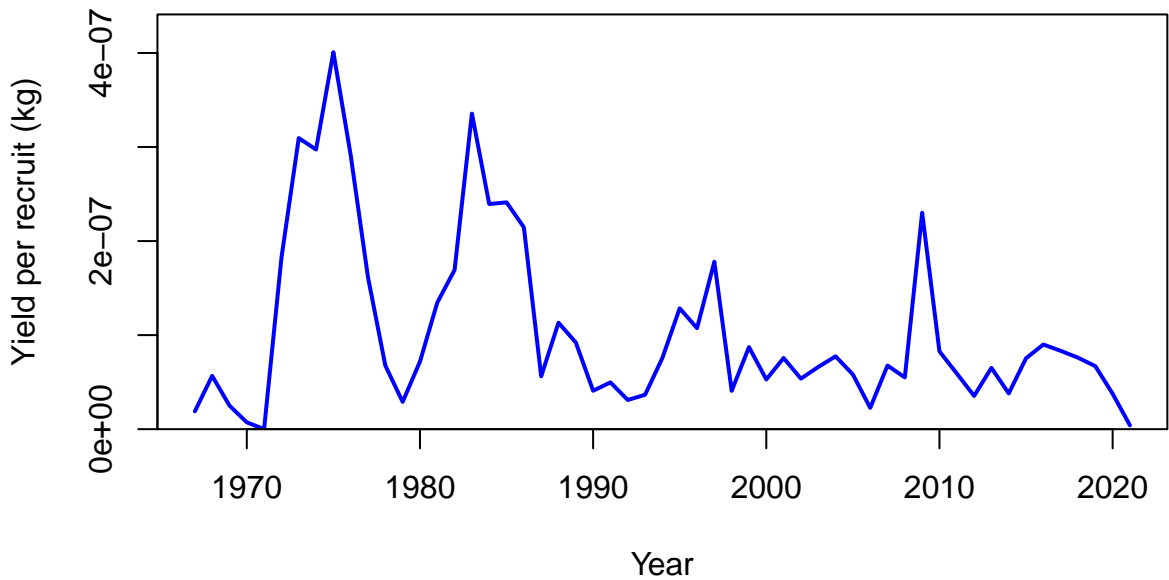
$1.5\text{e}+07$

$2.0\text{e}+07$

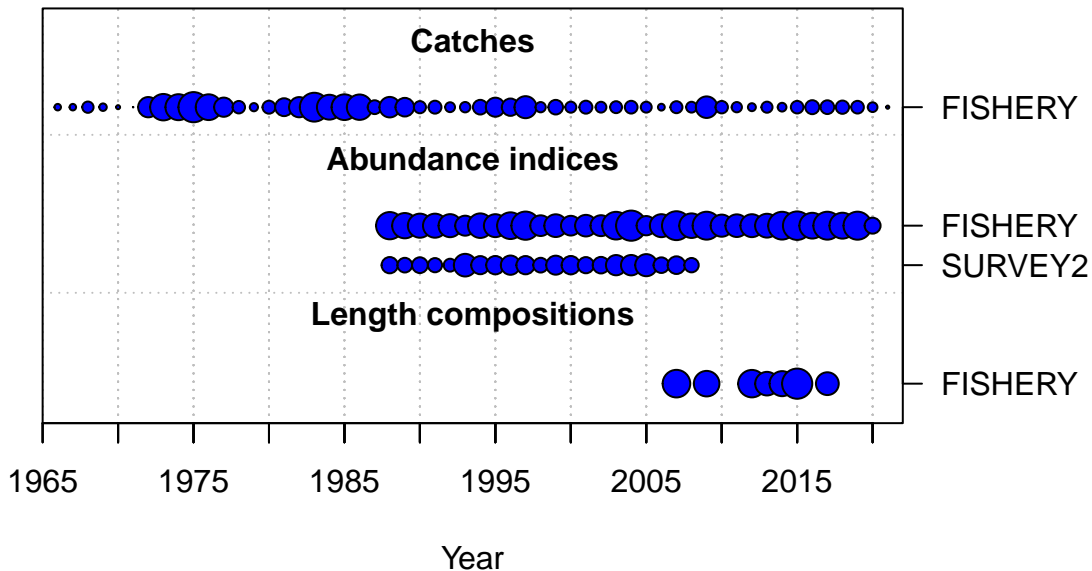
$2.5\text{e}+07$

Total biomass (mt)



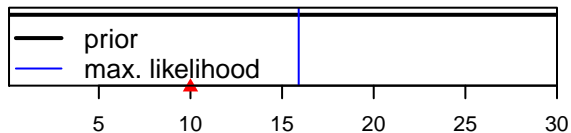




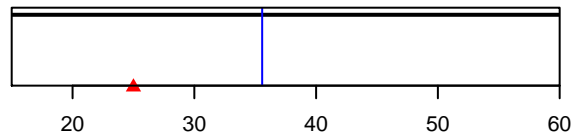


Density

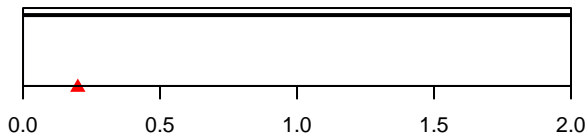
SR_LN(R0)



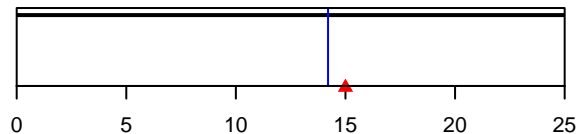
Size_inflection_FISHERY(1)



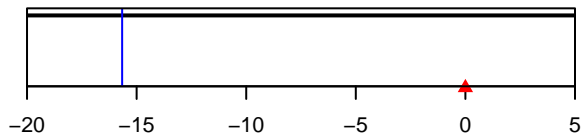
InitF_seas_1_flt_1FISHERY



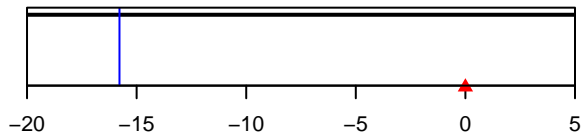
Size_95%width_FISHERY(1)



LnQ_base_FISHERY(1)



LnQ_base_SURVEY2(2)



Parameter value