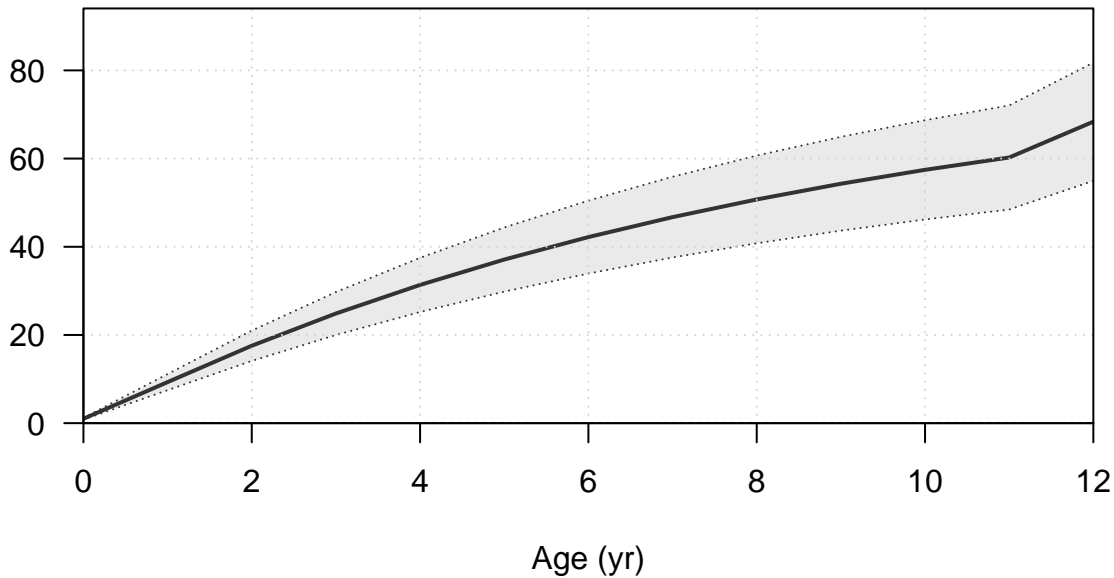
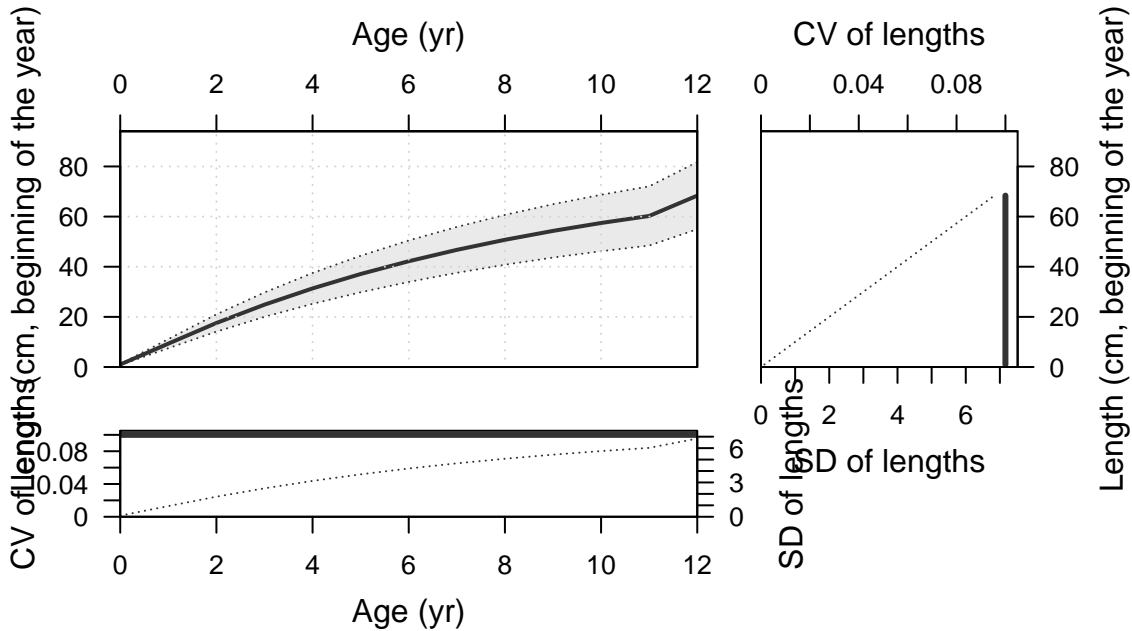
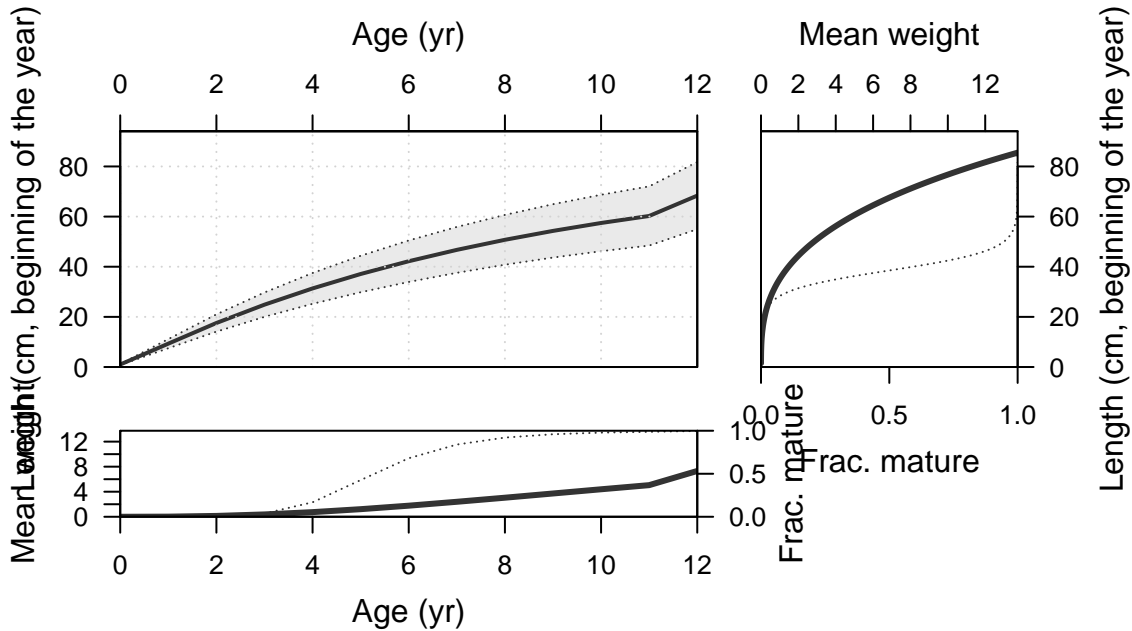


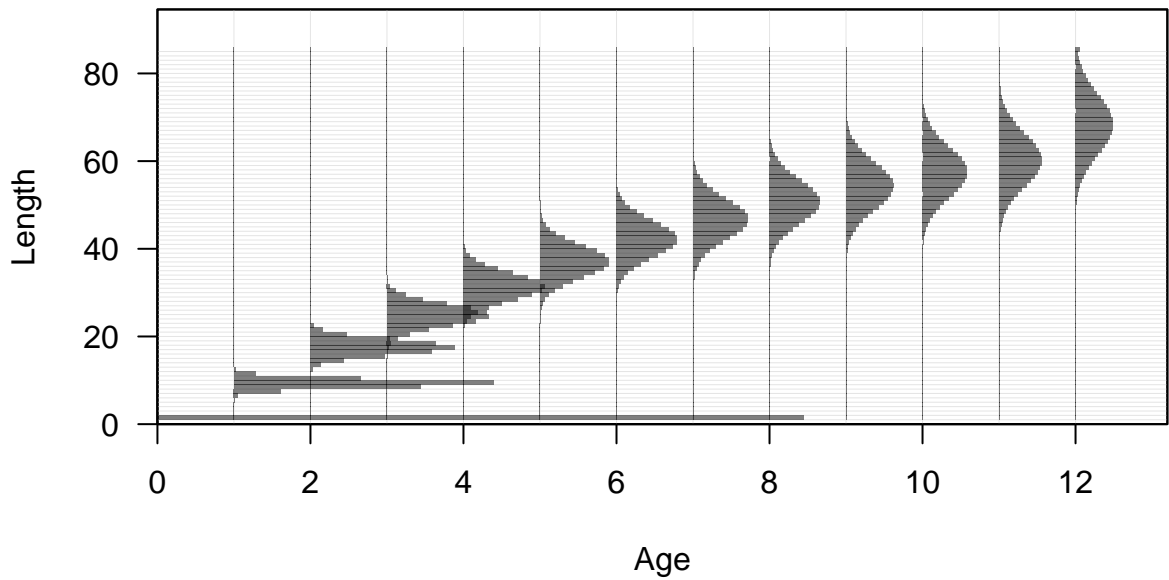
Plots created using the 'r4ss' package in R
Stock Synthesis version: 3.30.19.0
StartTime: Tue Jul 12 16:46:31 2022
Data_File: data.ss
Control_File: control.ss

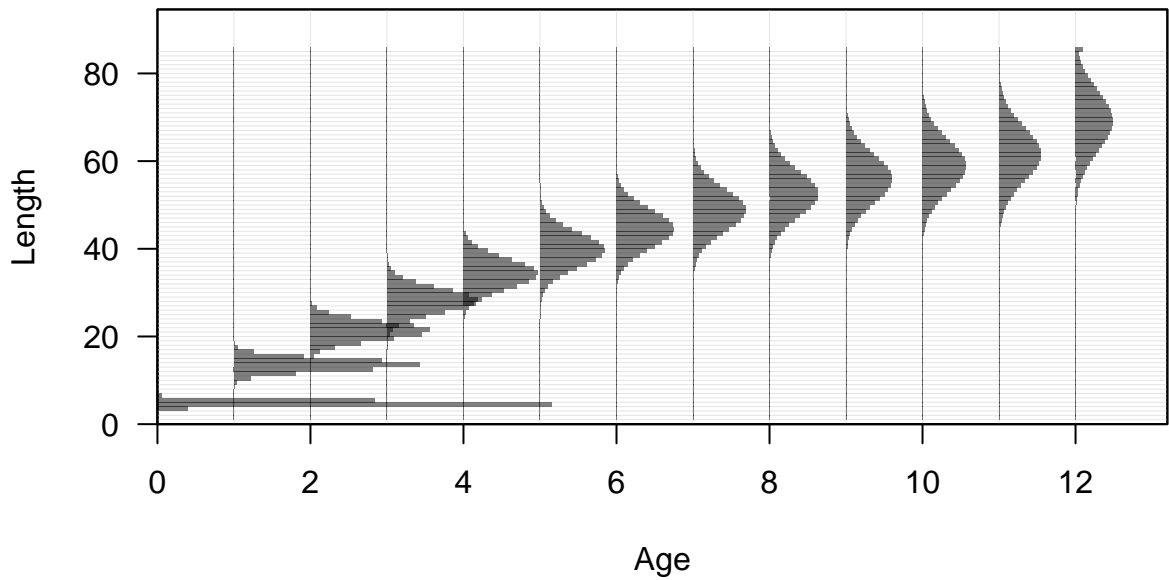
Length (cm, beginning of the year)

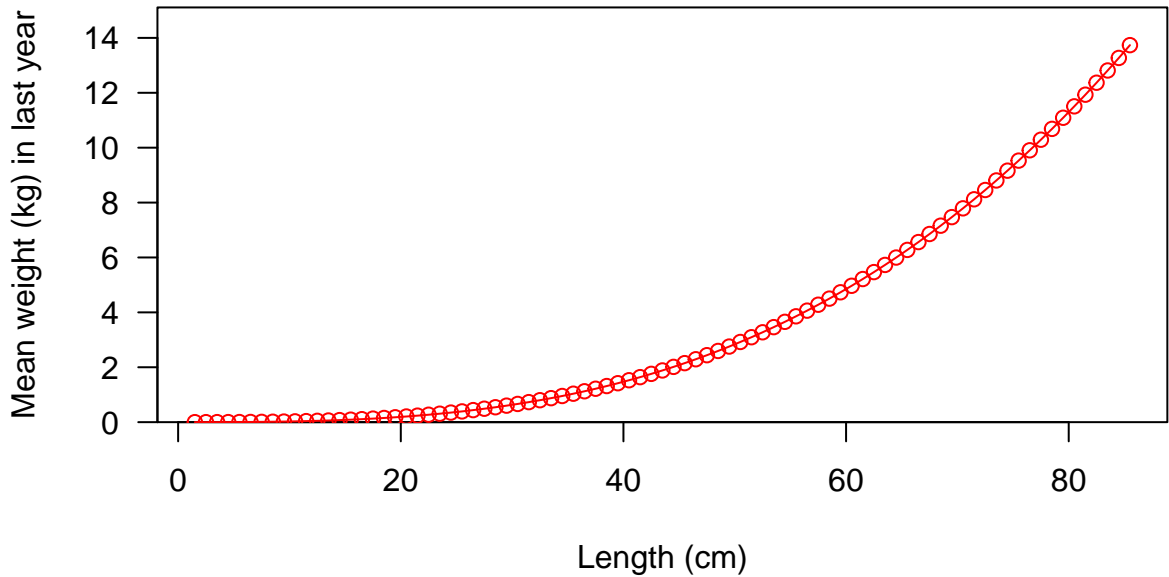


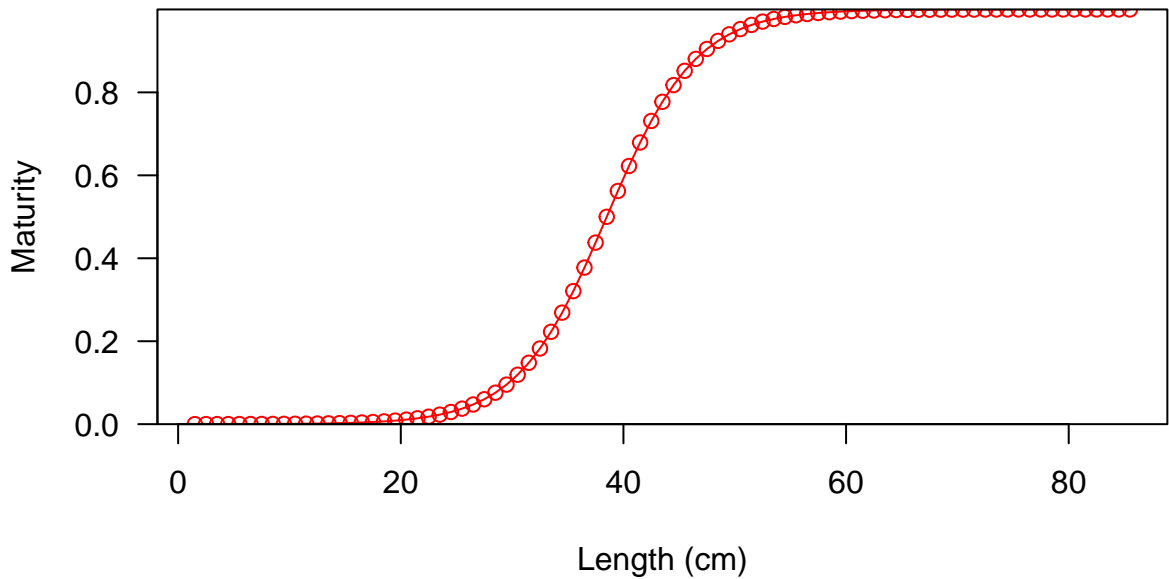


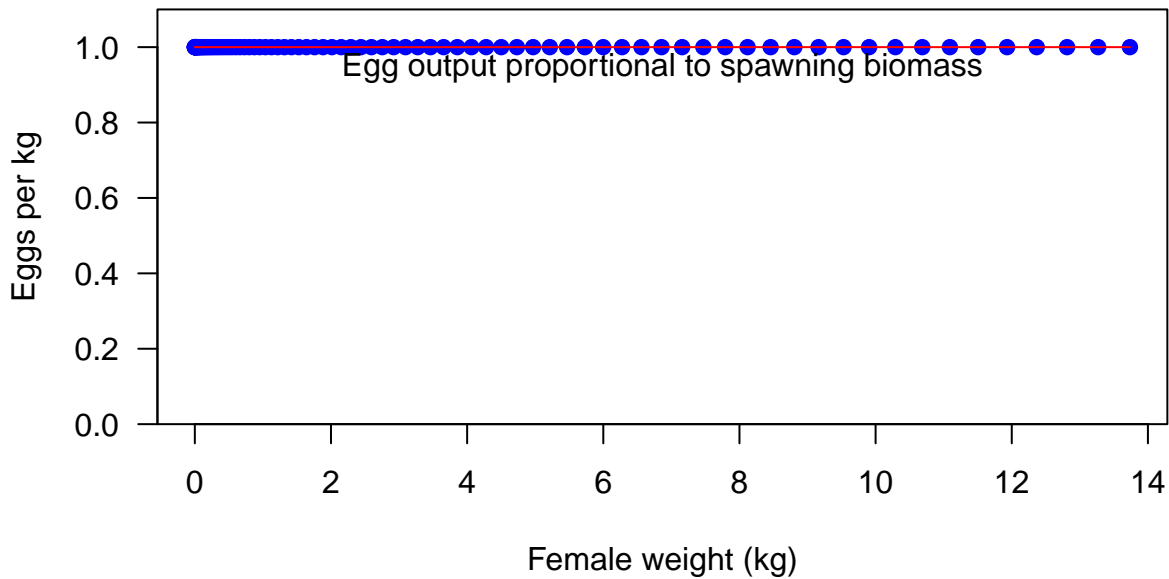




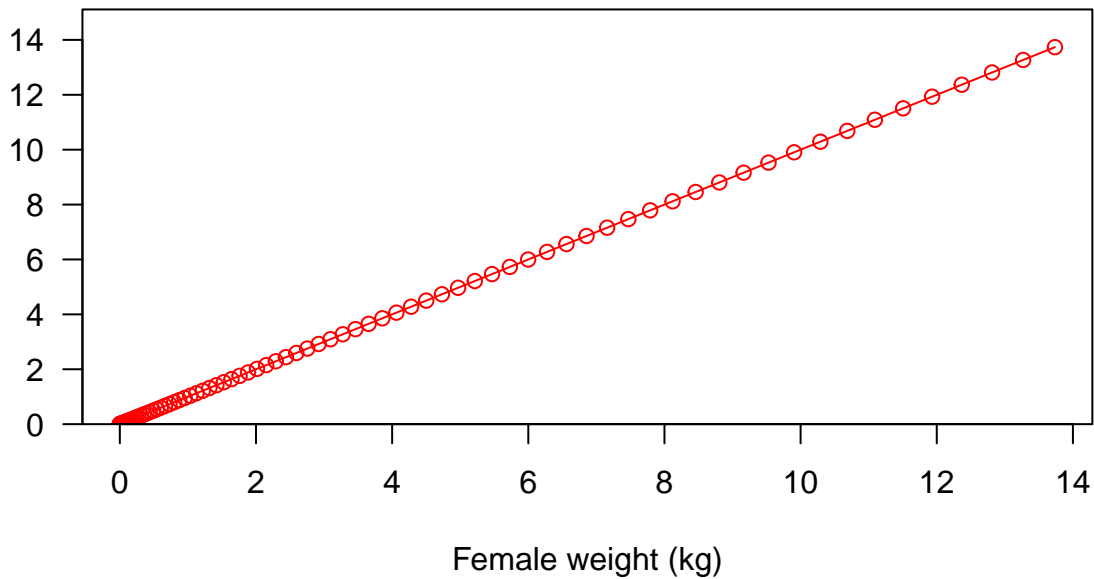




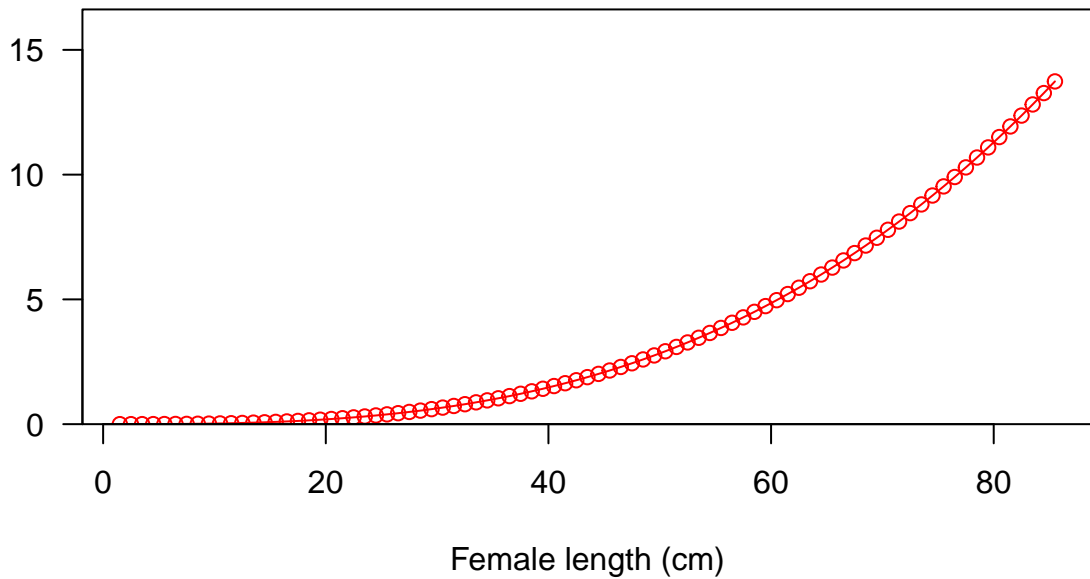




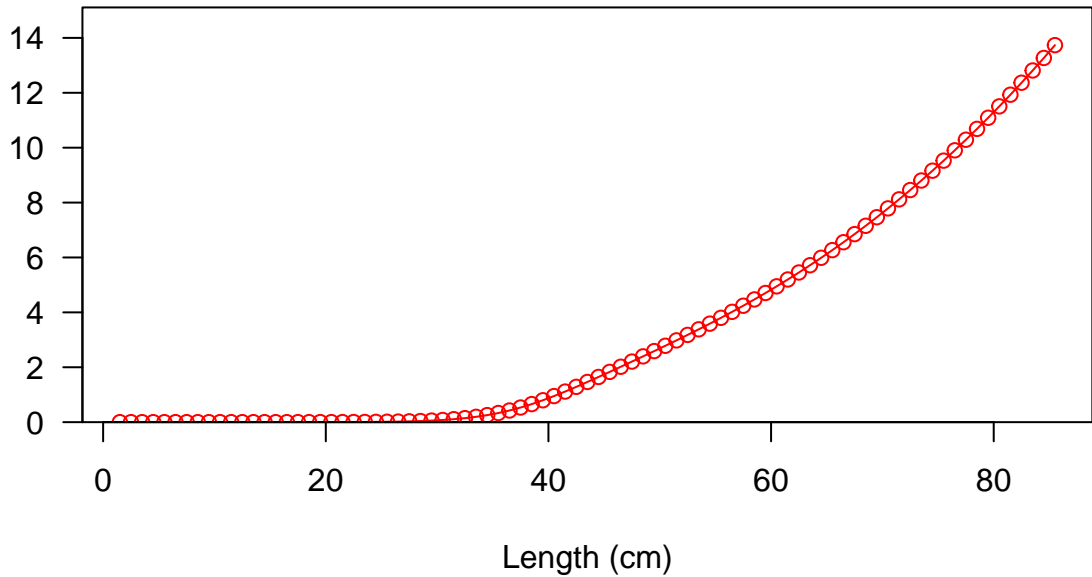
Fecundity

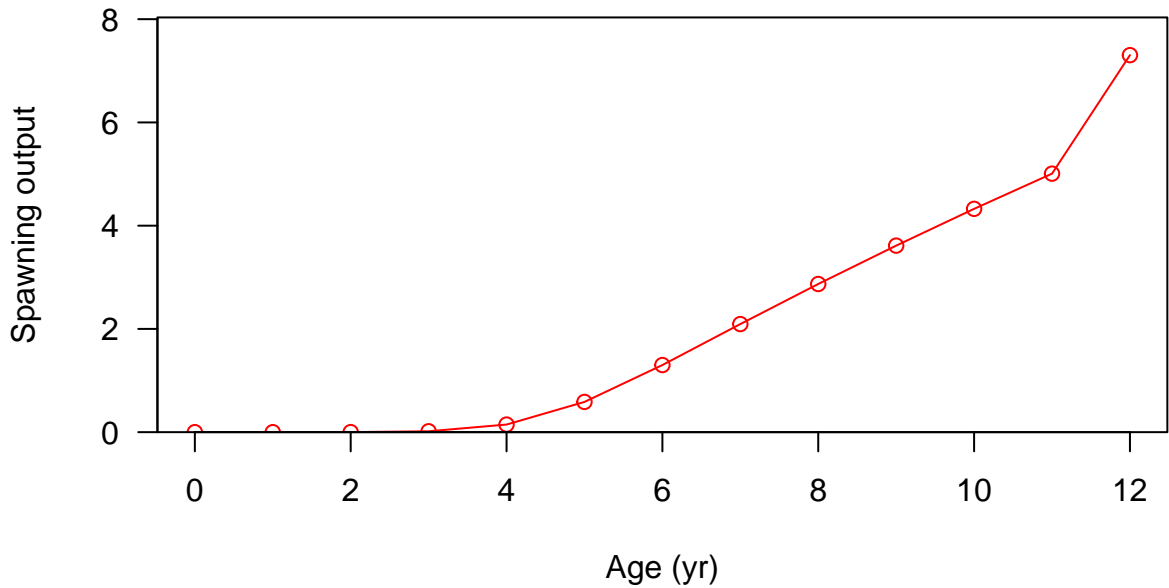


Fecundity

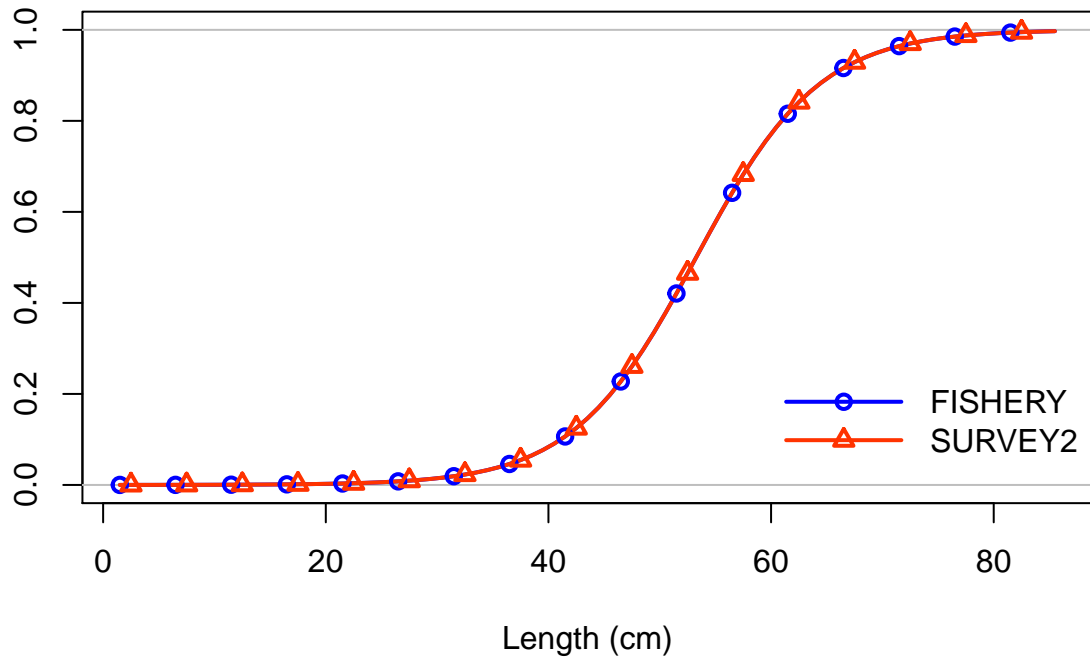


Spawning output

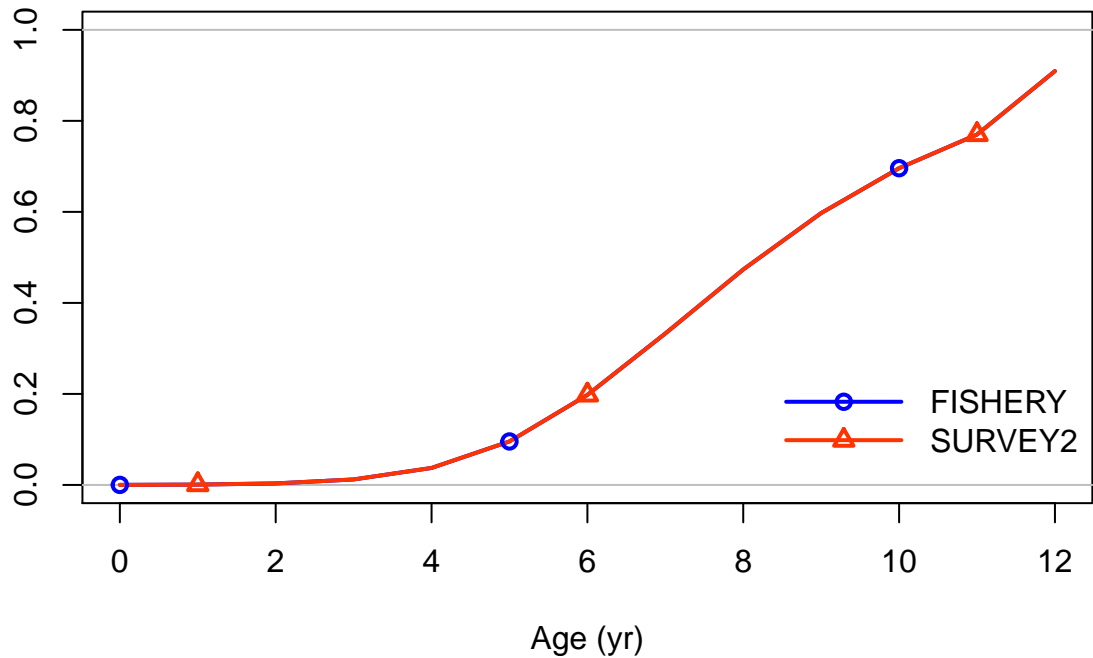




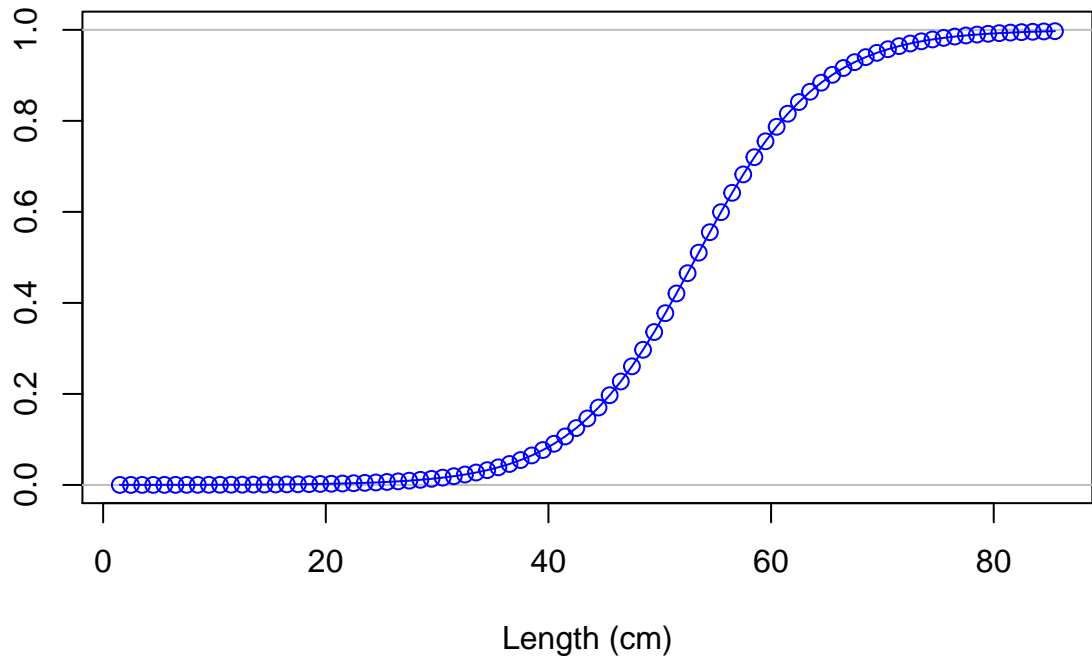
Selectivity



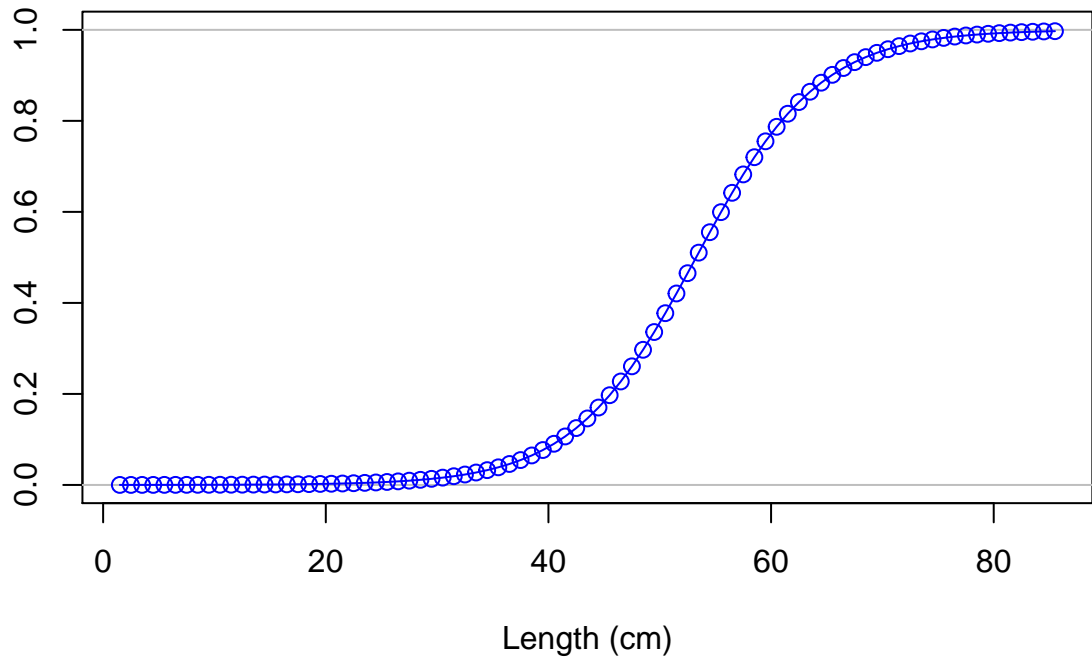
Selectivity

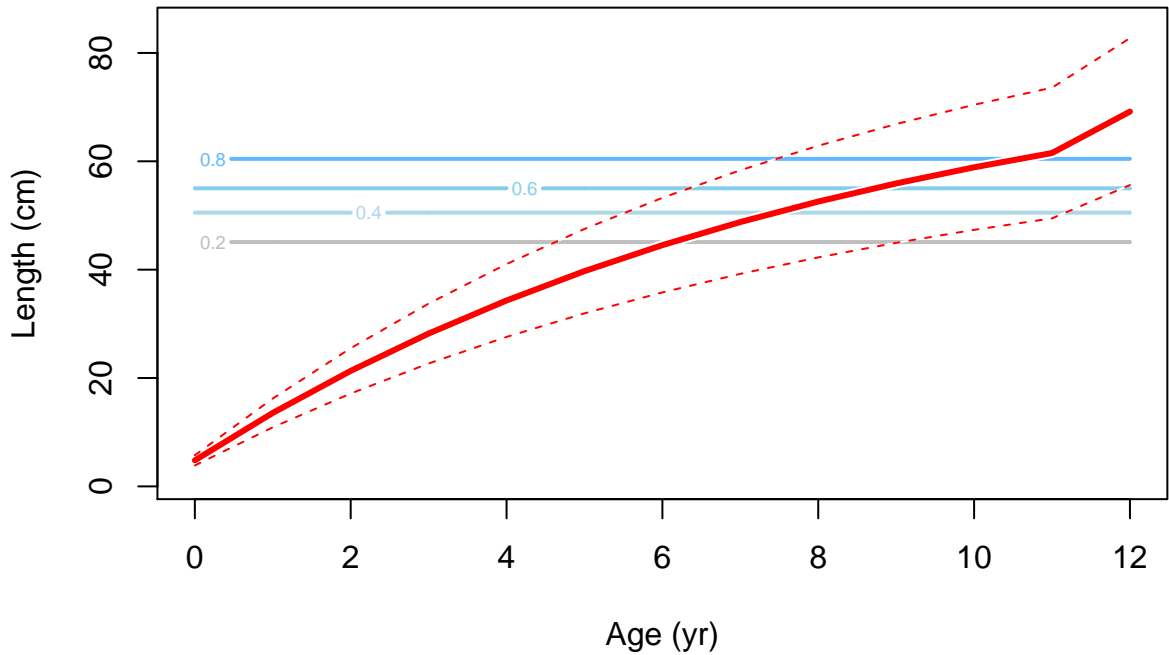


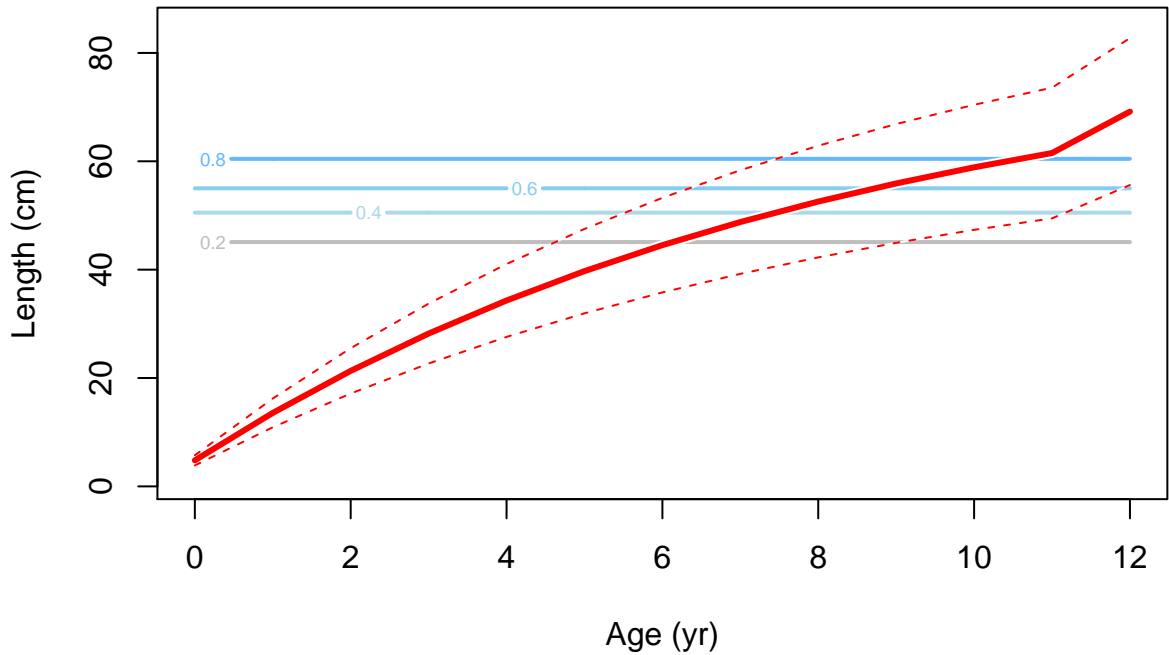
Selectivity

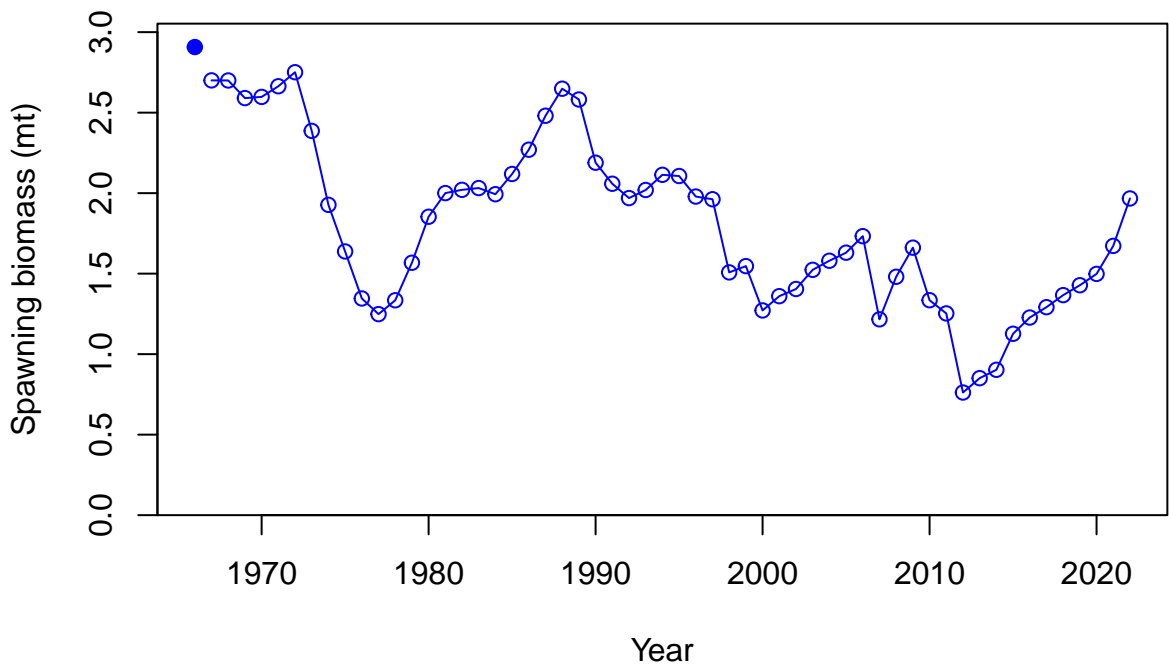


Selectivity

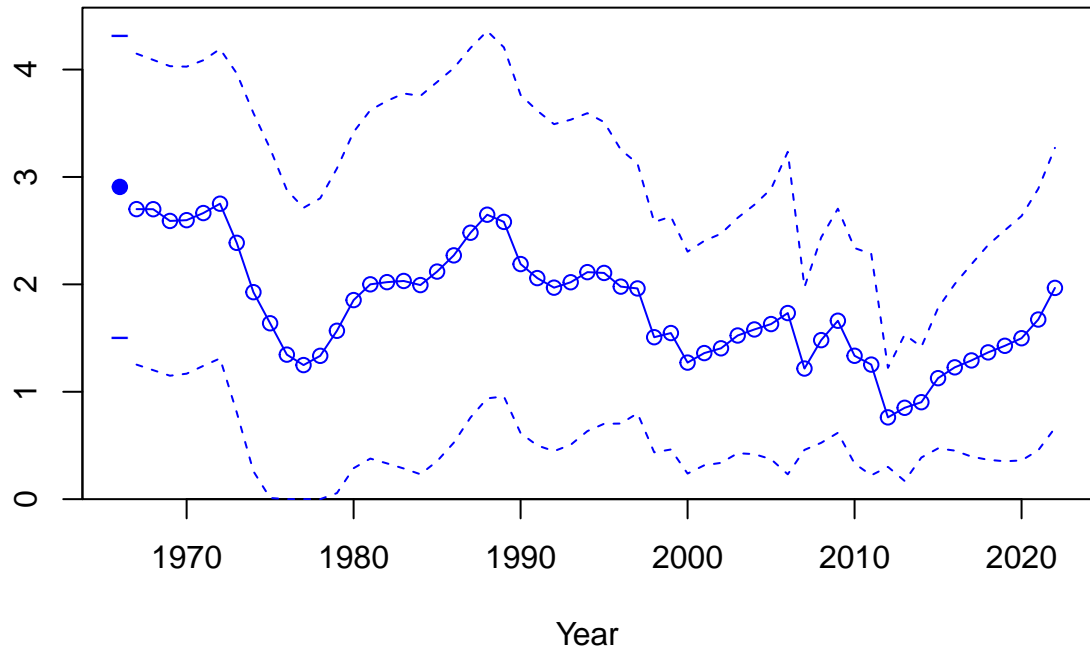




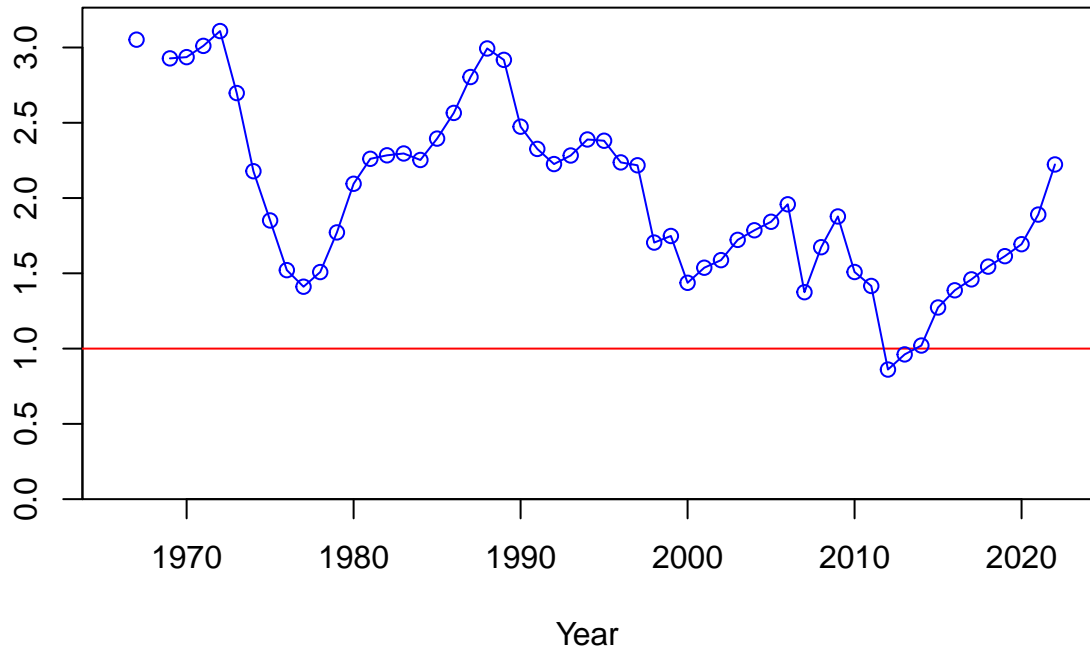




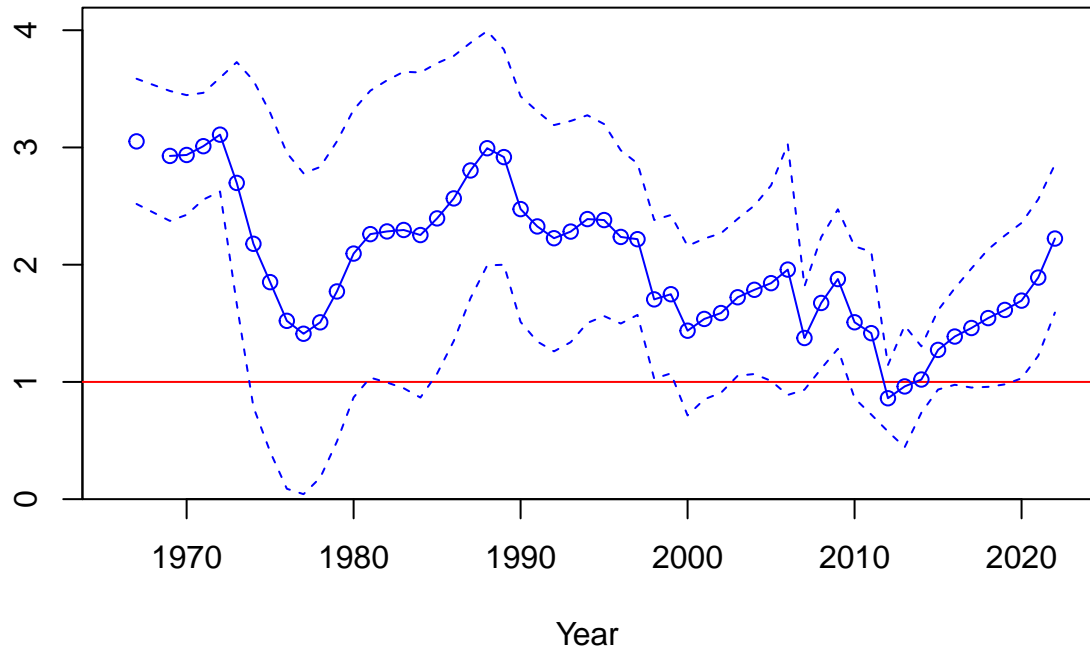
Spawning biomass (mt)

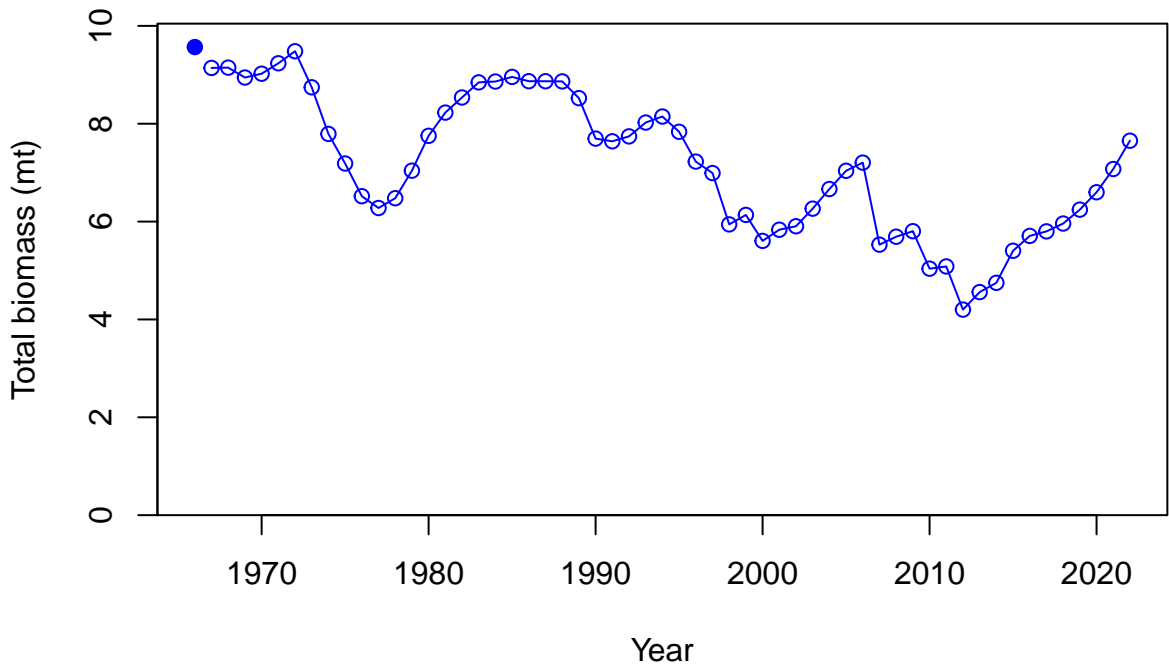


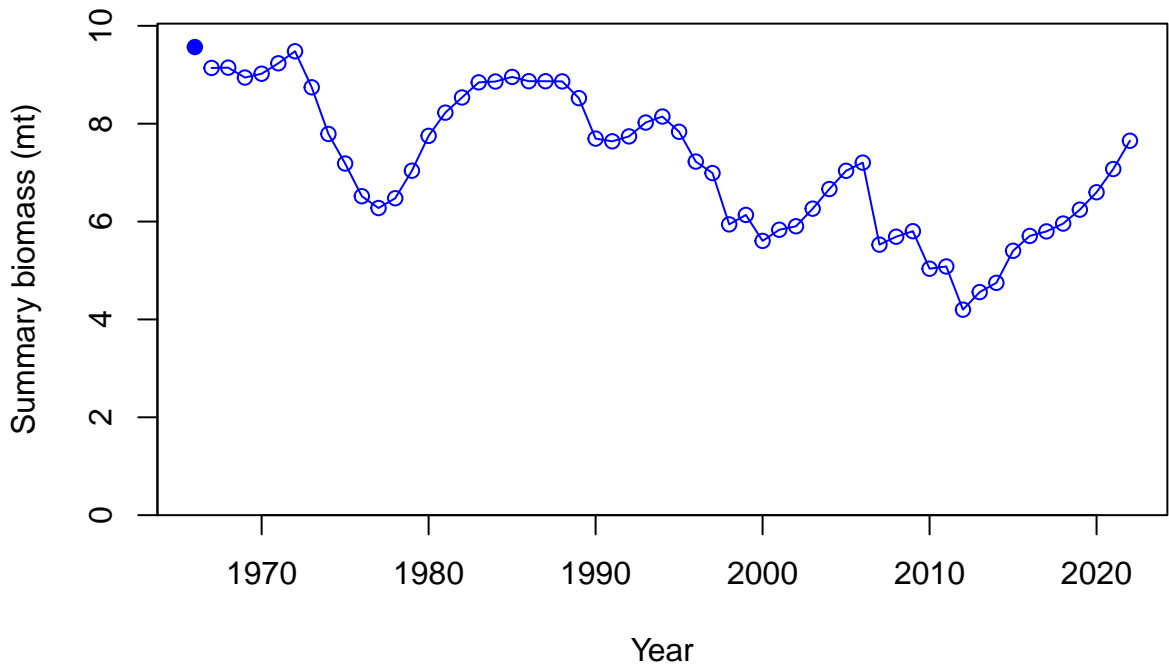
Relative spawning biomass: B/B_{MSY}



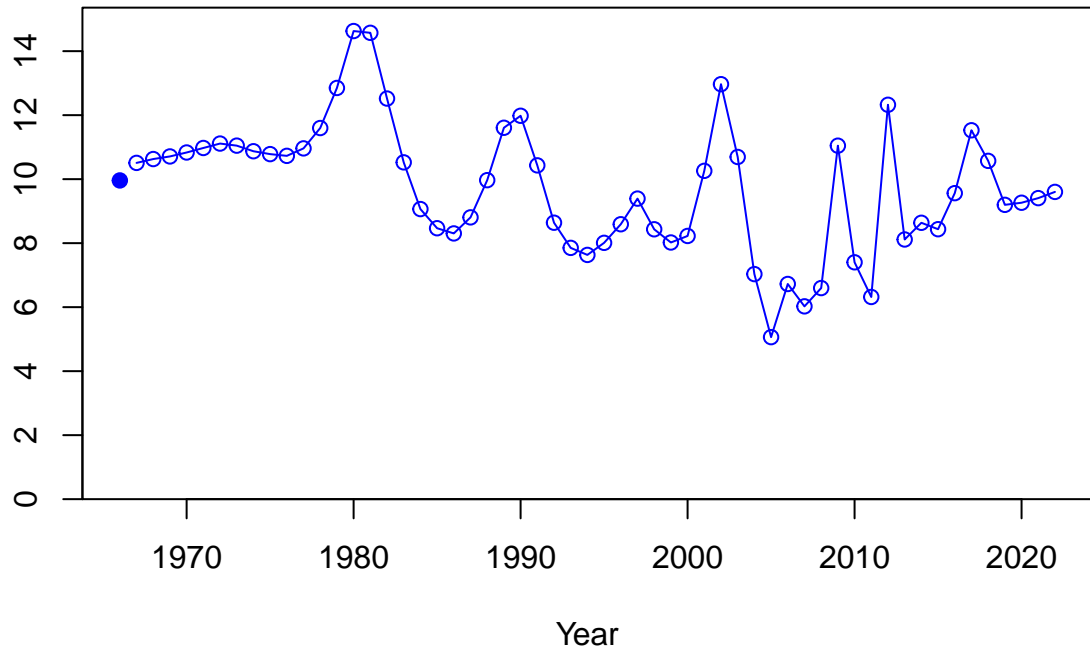
Relative spawning biomass: B/B_MSY



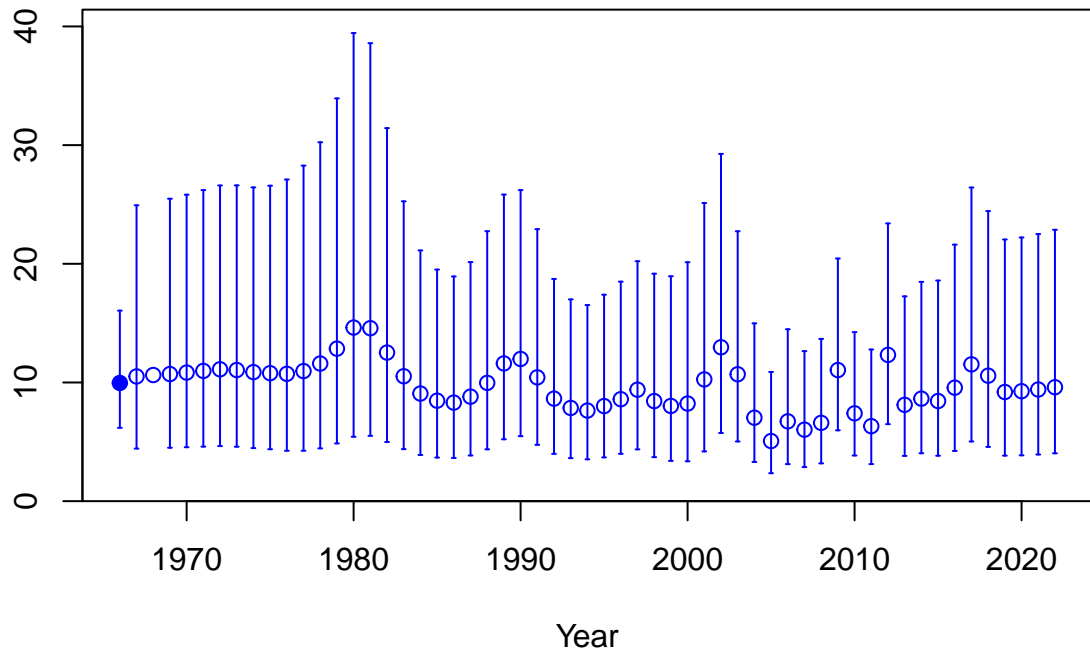




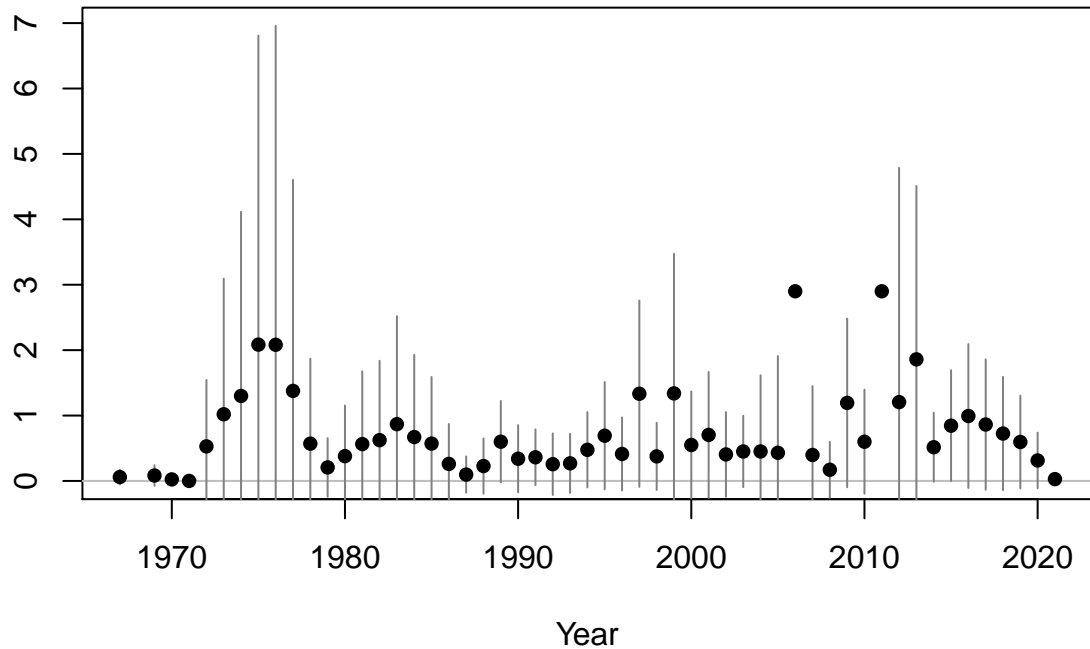
Age-0 recruits (1,000s)

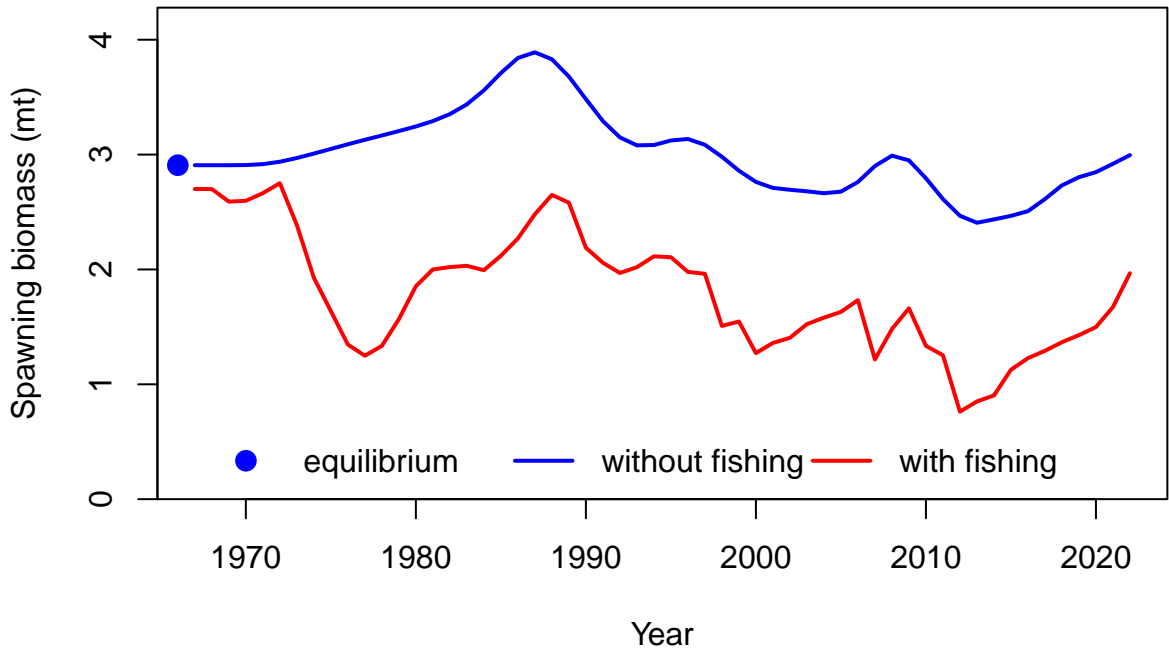


Age-0 recruits (1,000s)

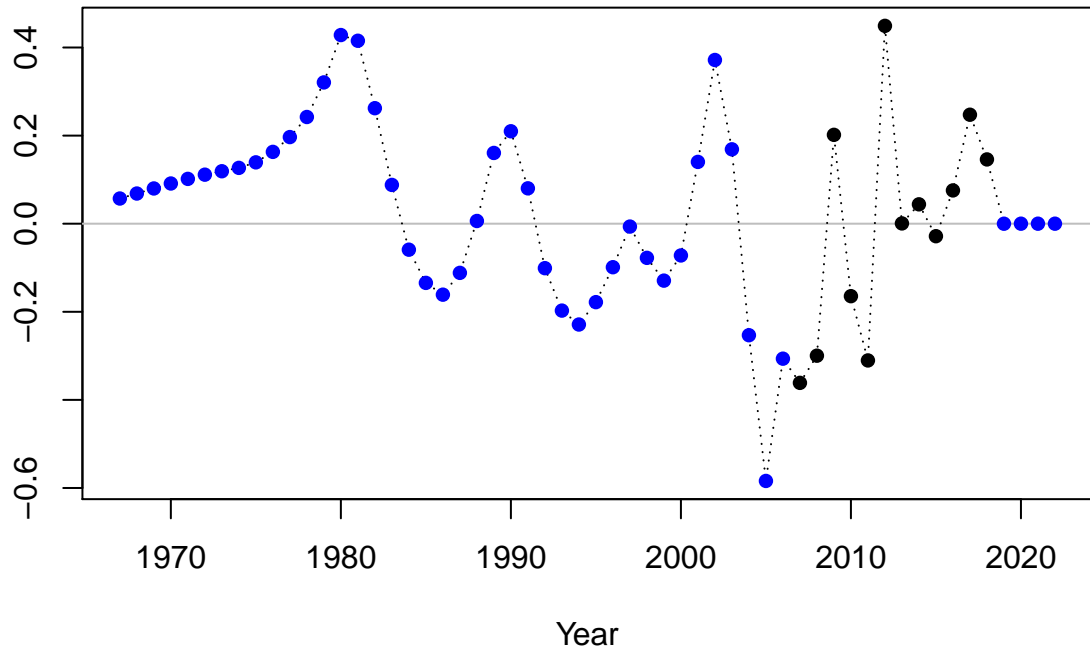


Summary Fishing Mortality





Log recruitment deviation



Log recruitment deviation

1.0
0.5
0.0
-0.5
-1.0

1970

1980

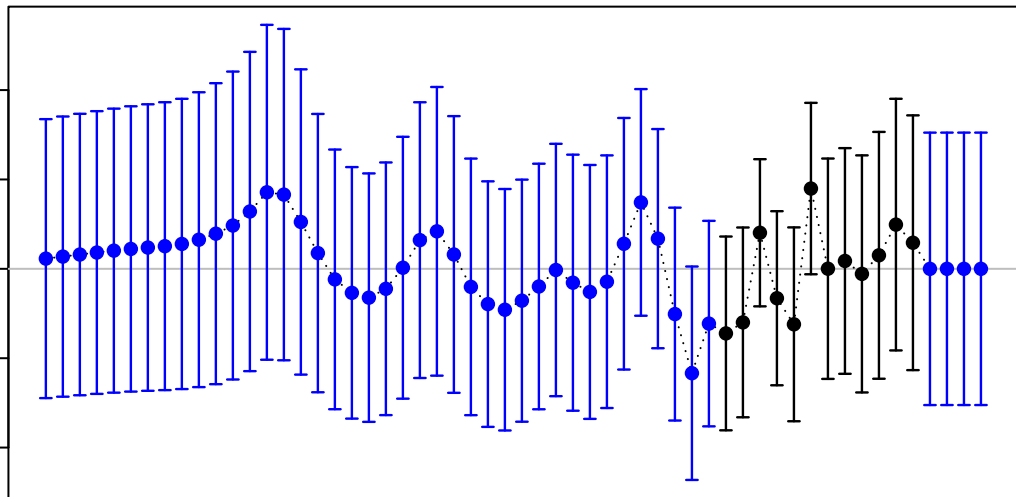
1990

2000

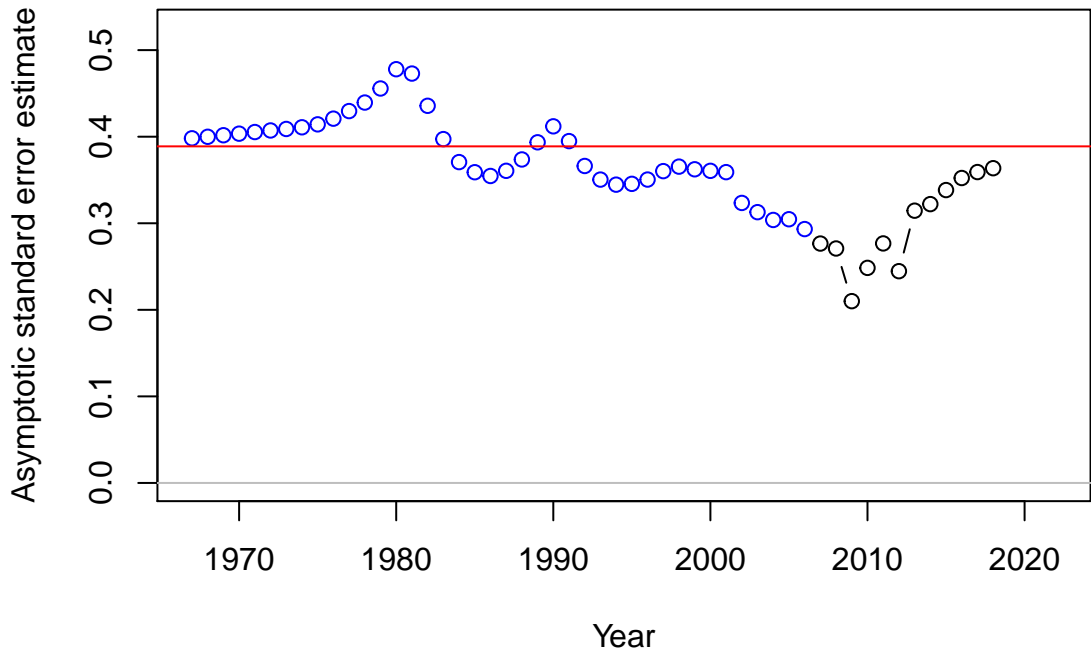
2010

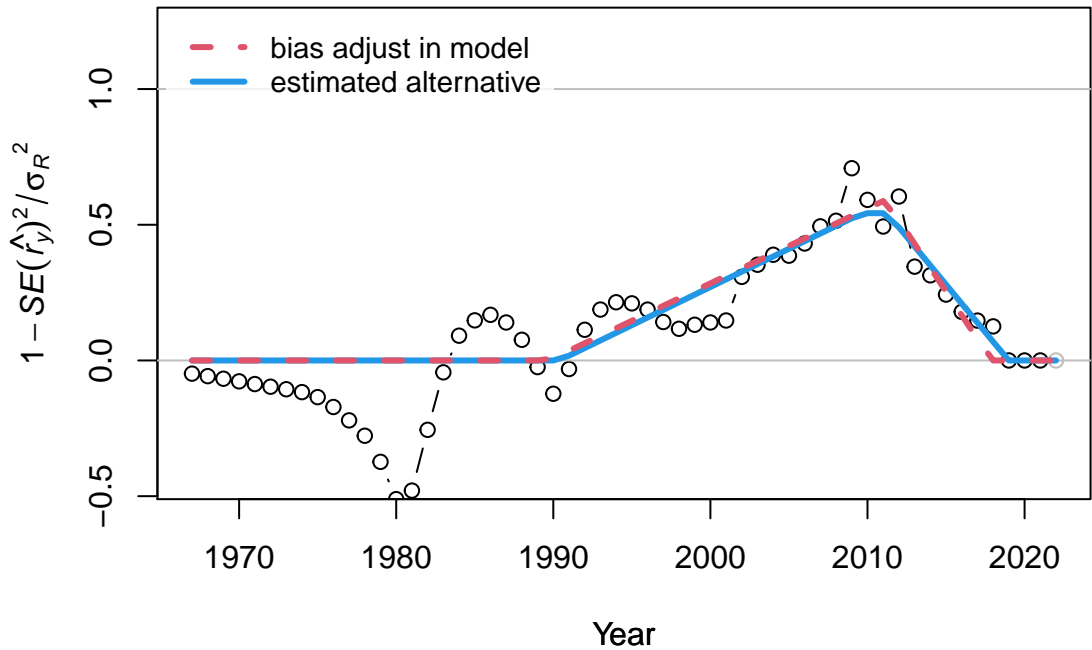
2020

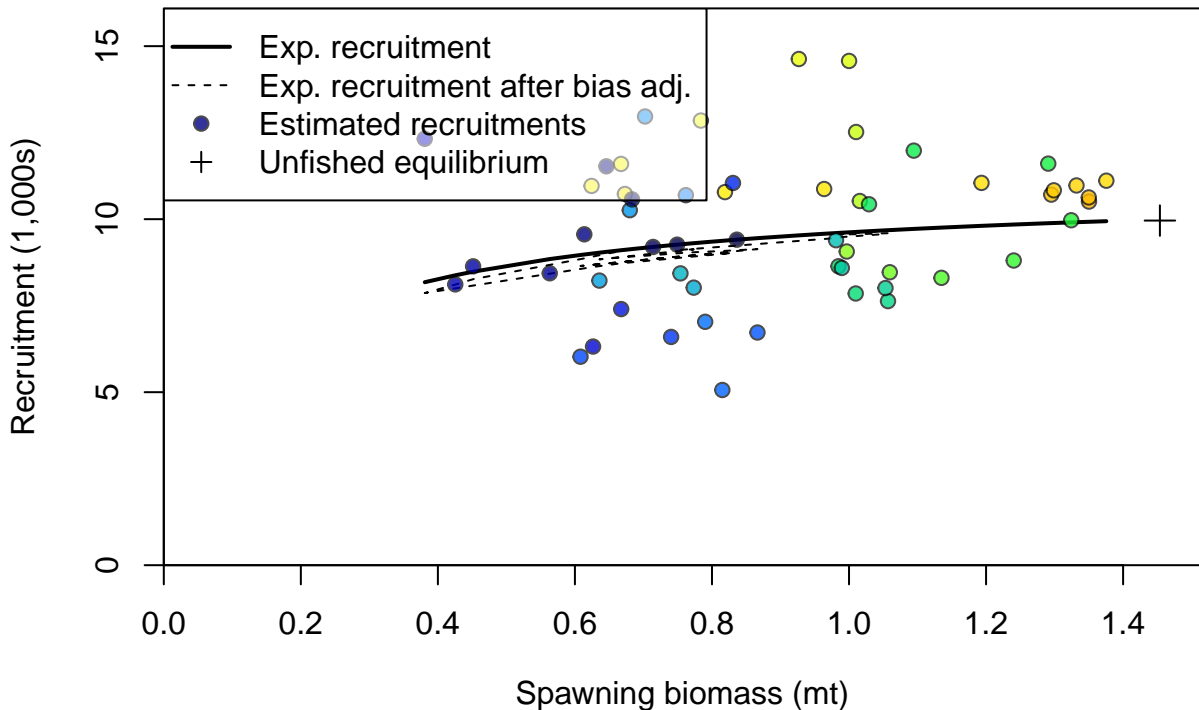
Year

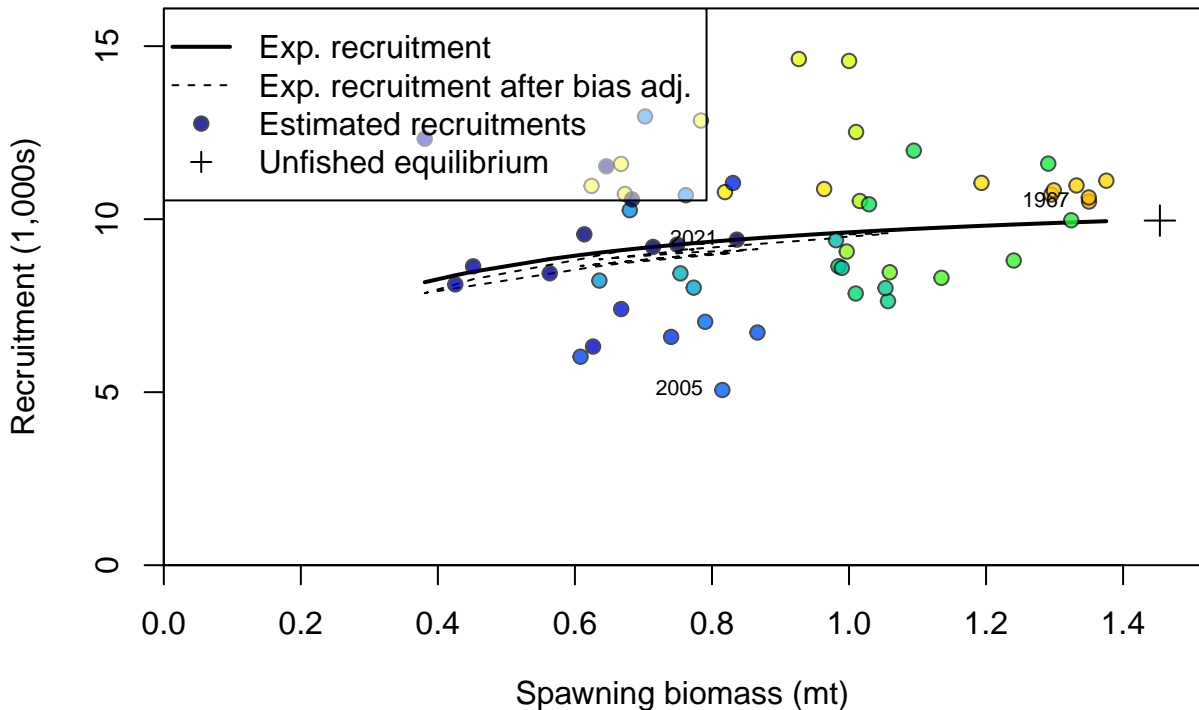


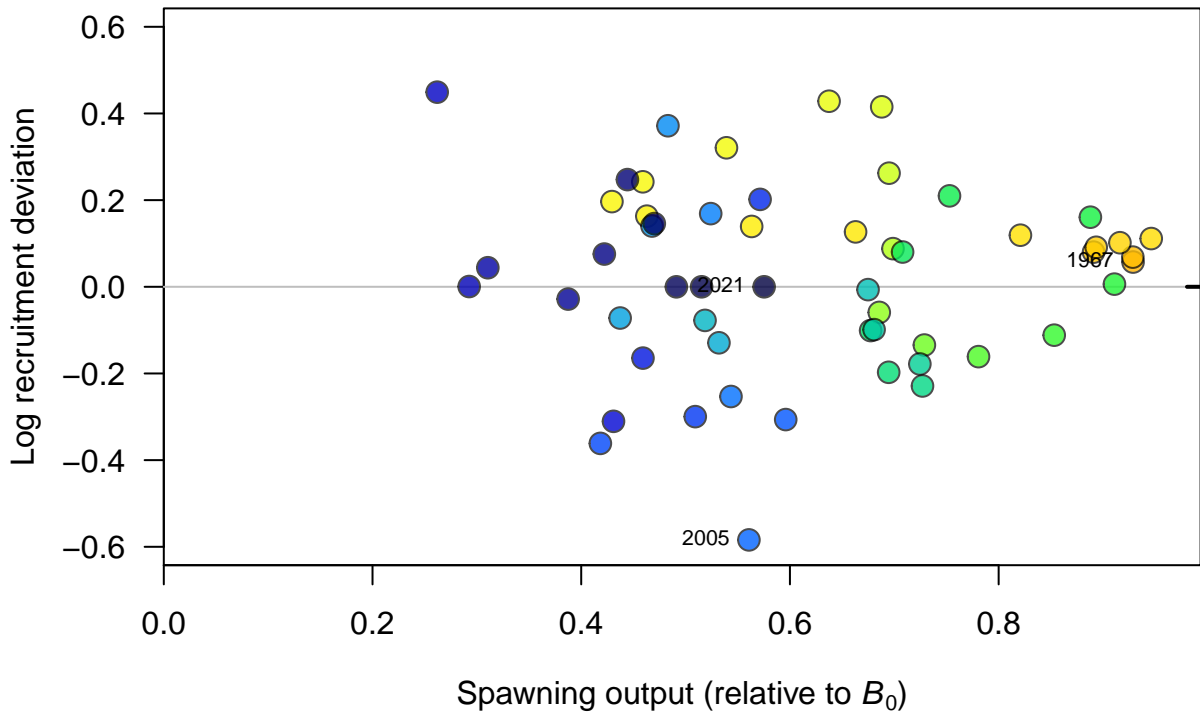
Recruitment deviation variance

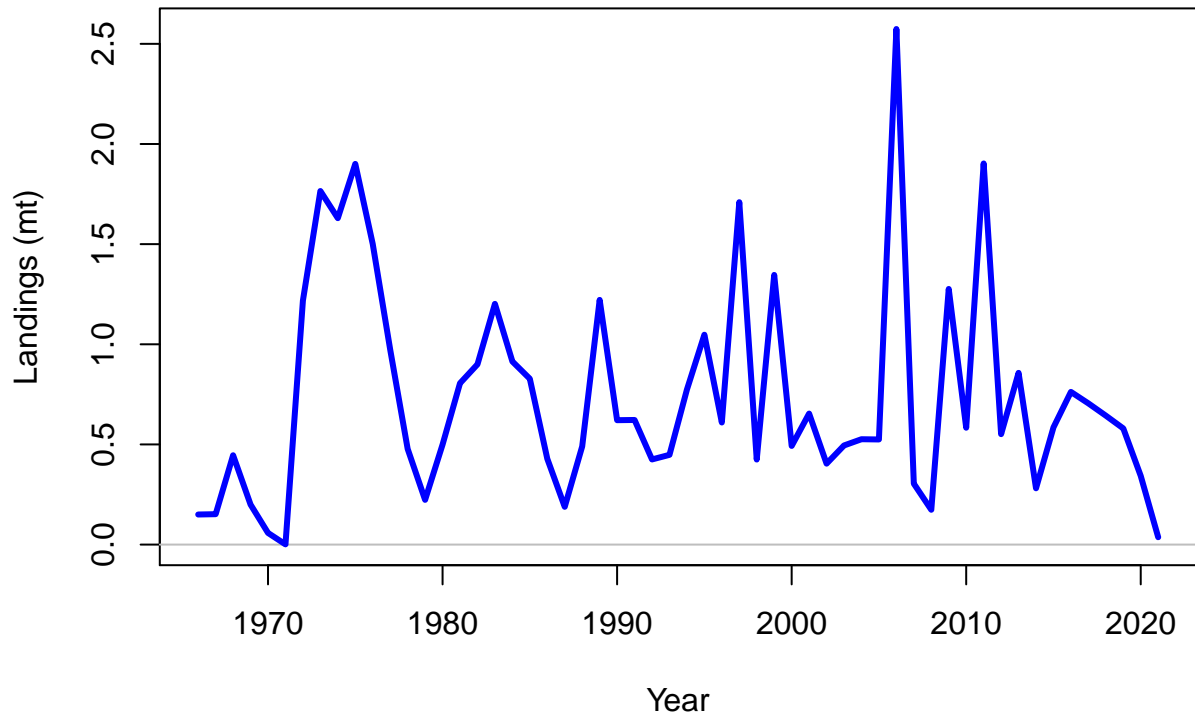


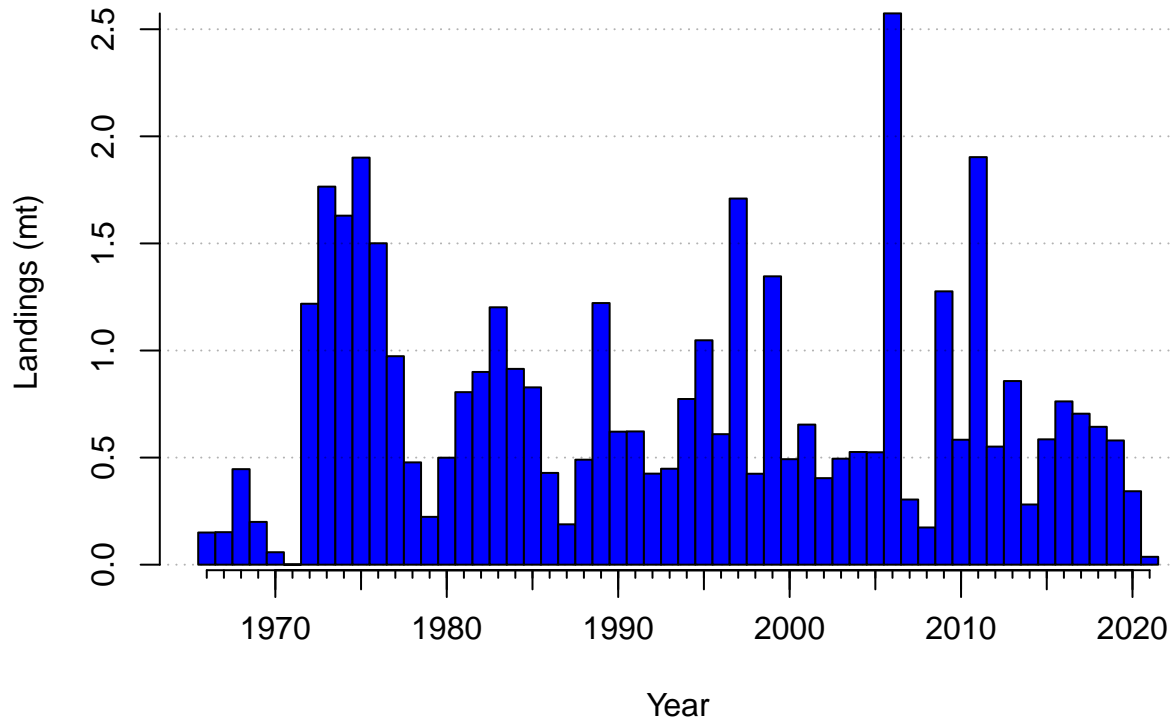












Observed and expected Landings (mt)

FISHERY
FISHERY obs.

3.0
2.5
2.0
1.5
1.0
0.5
0.0

1970

1980

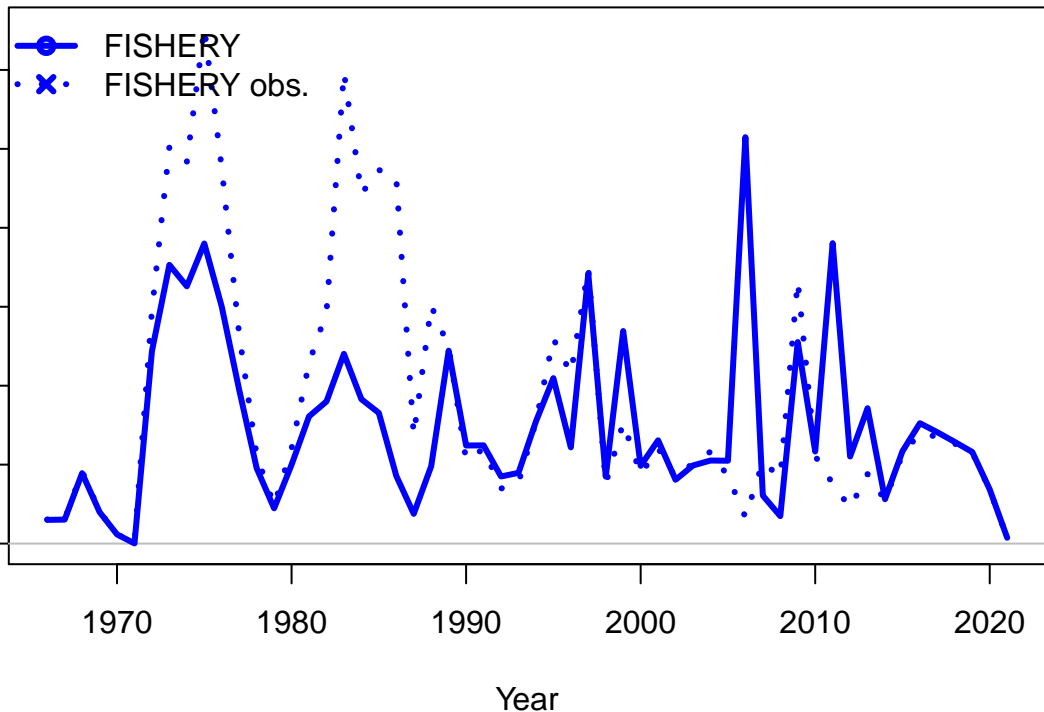
1990

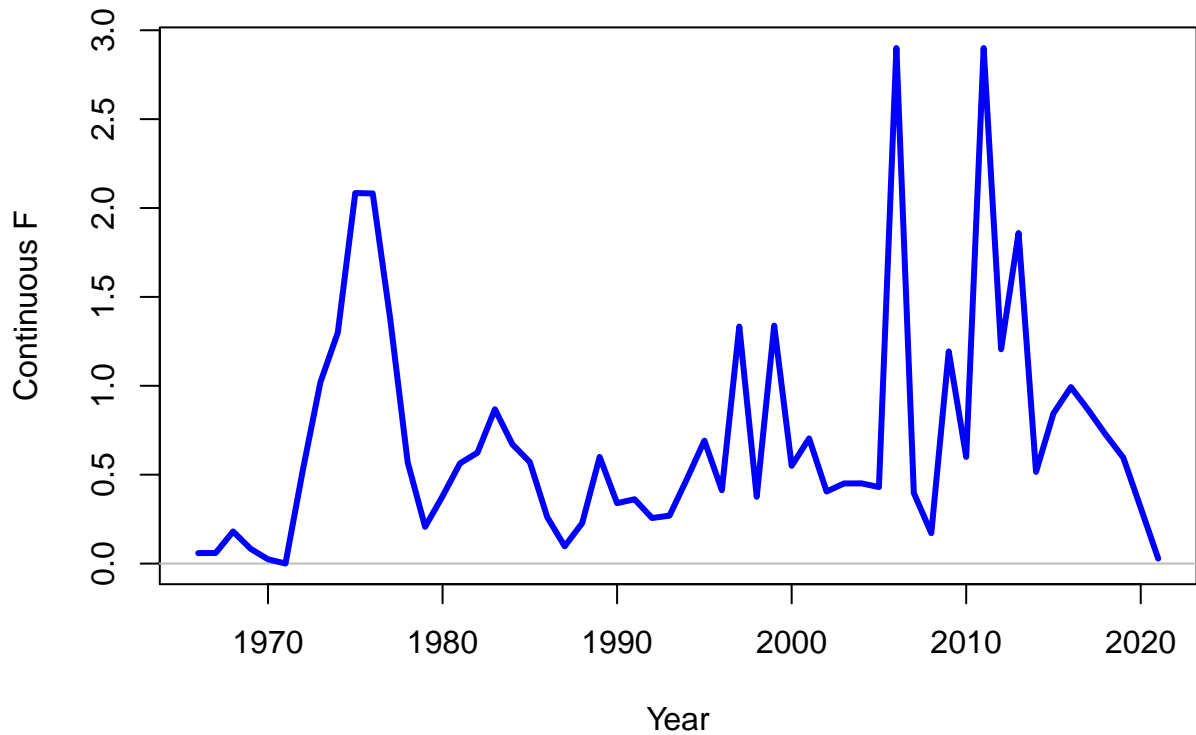
2000

2010

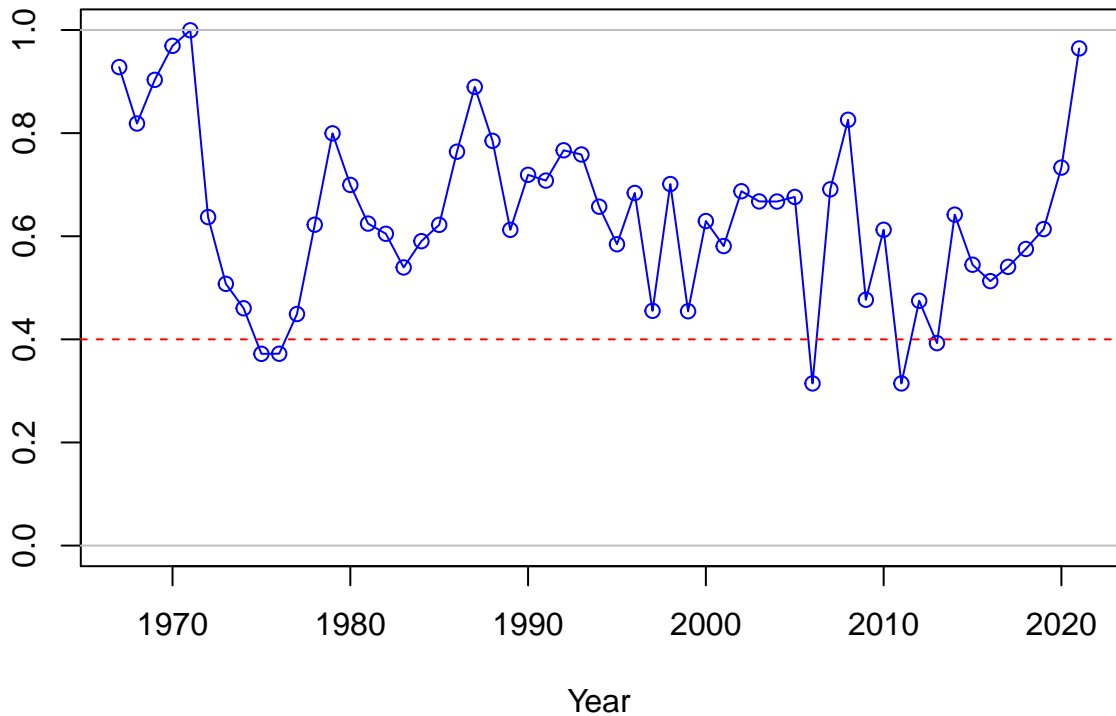
2020

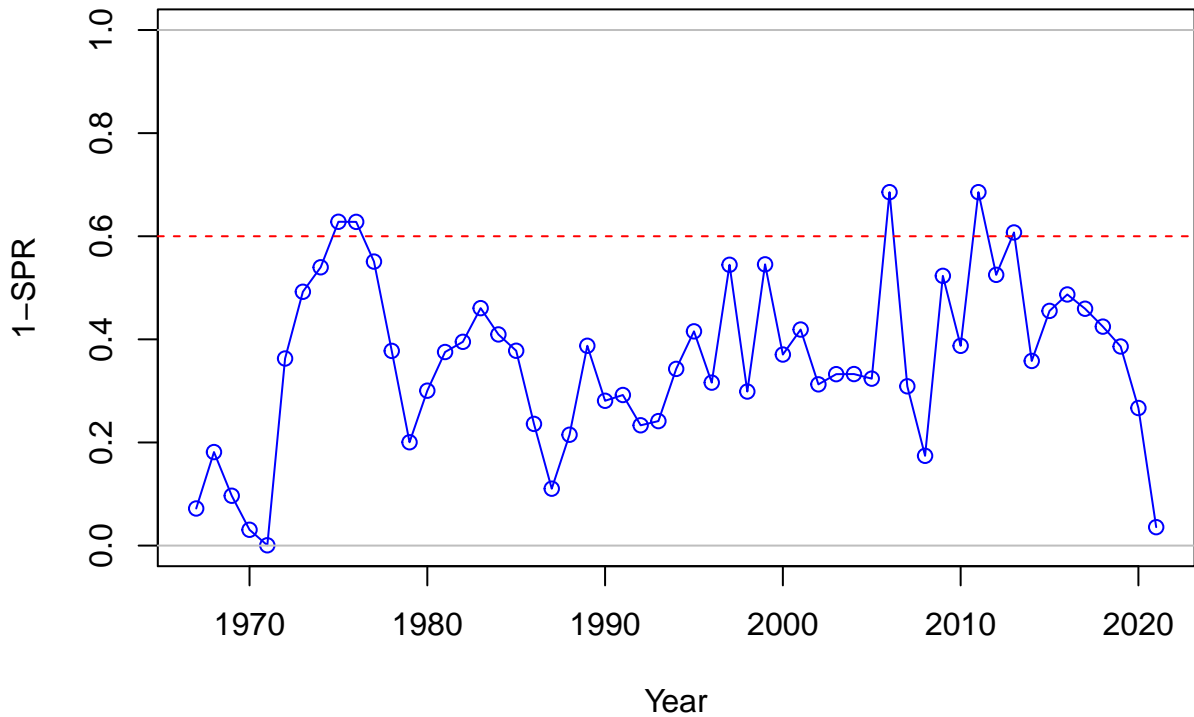
Year



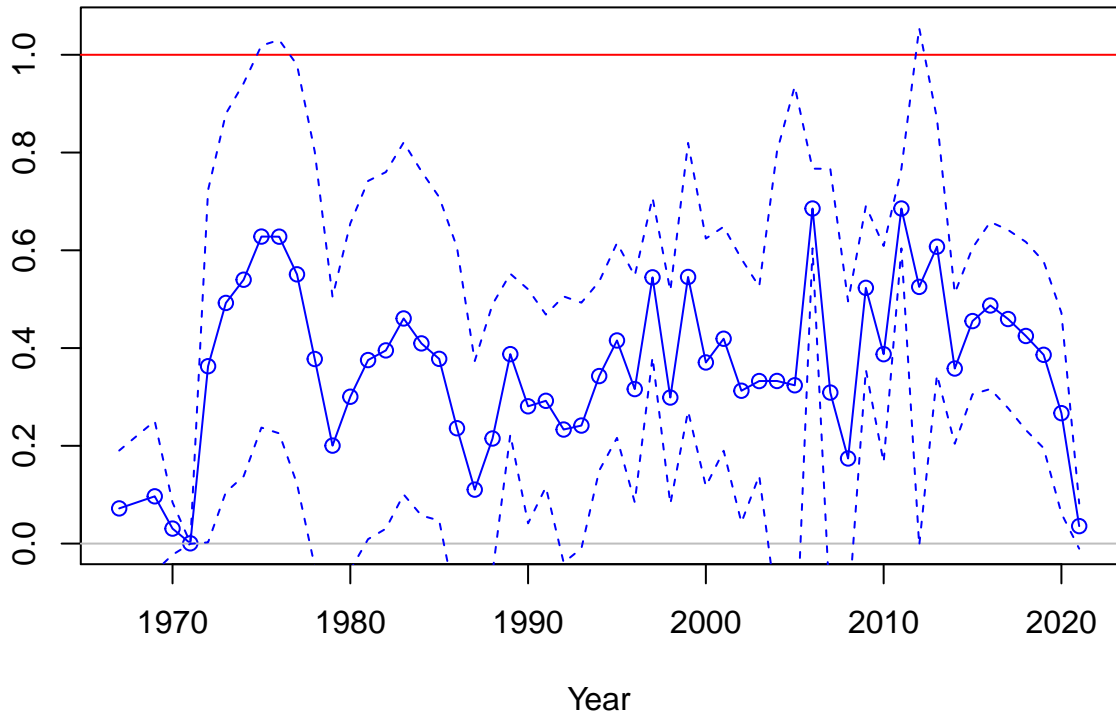


SPR

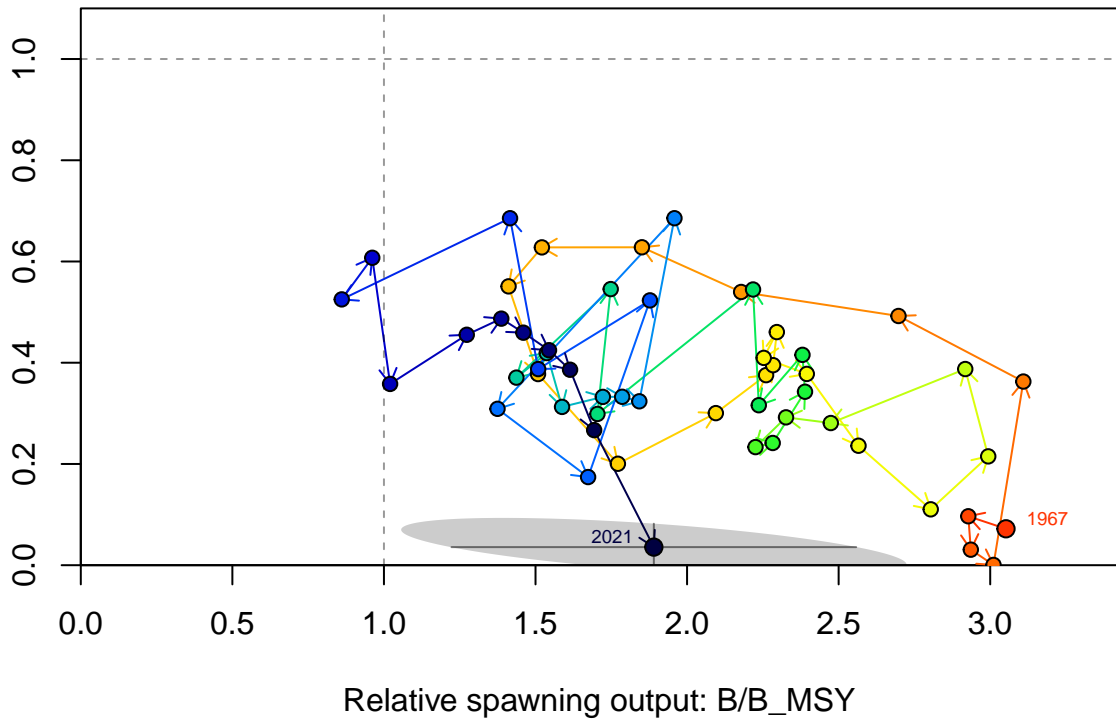




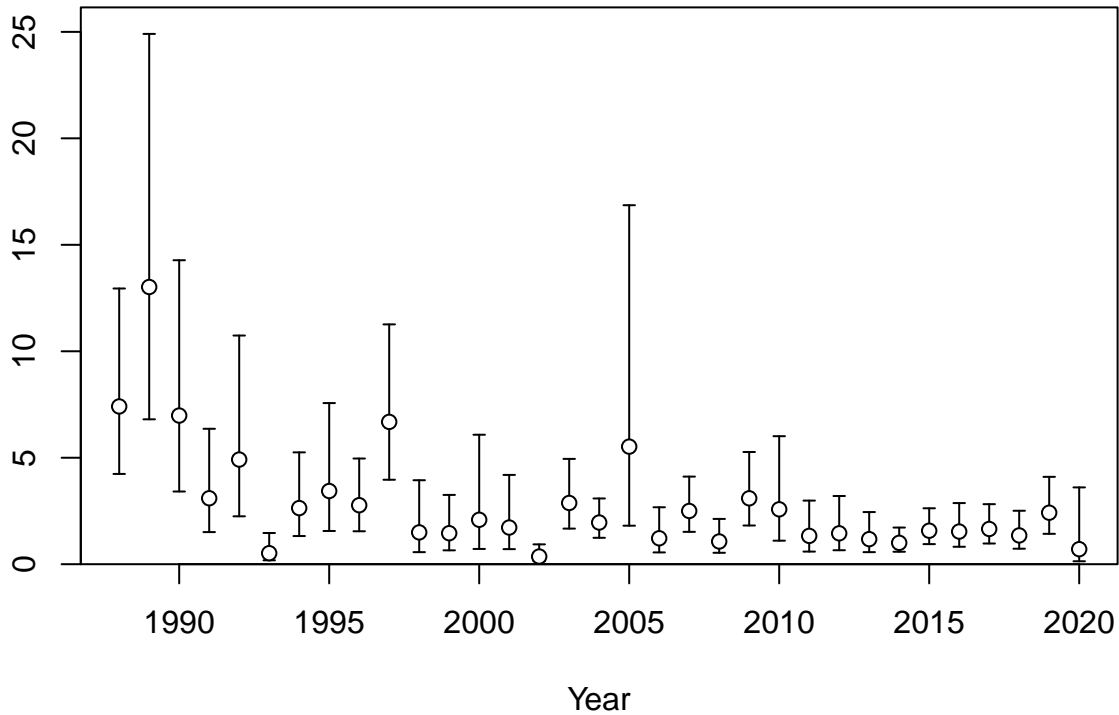
Fishing intensity: 1-SPR



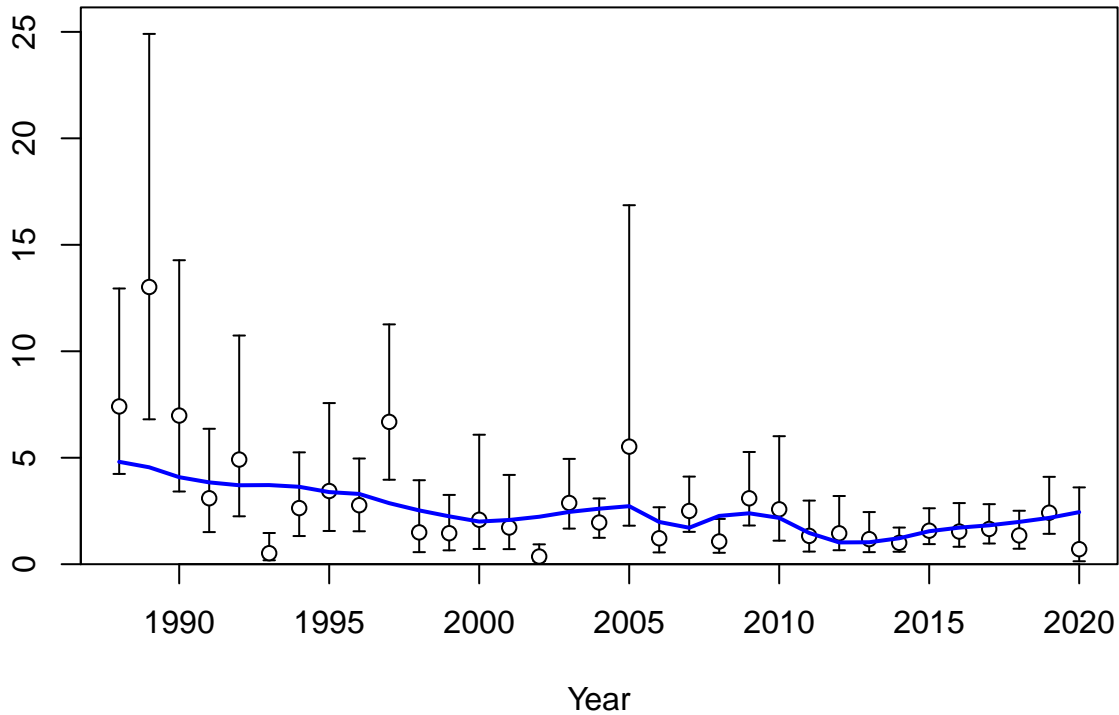
Fishing intensity: 1-SPR

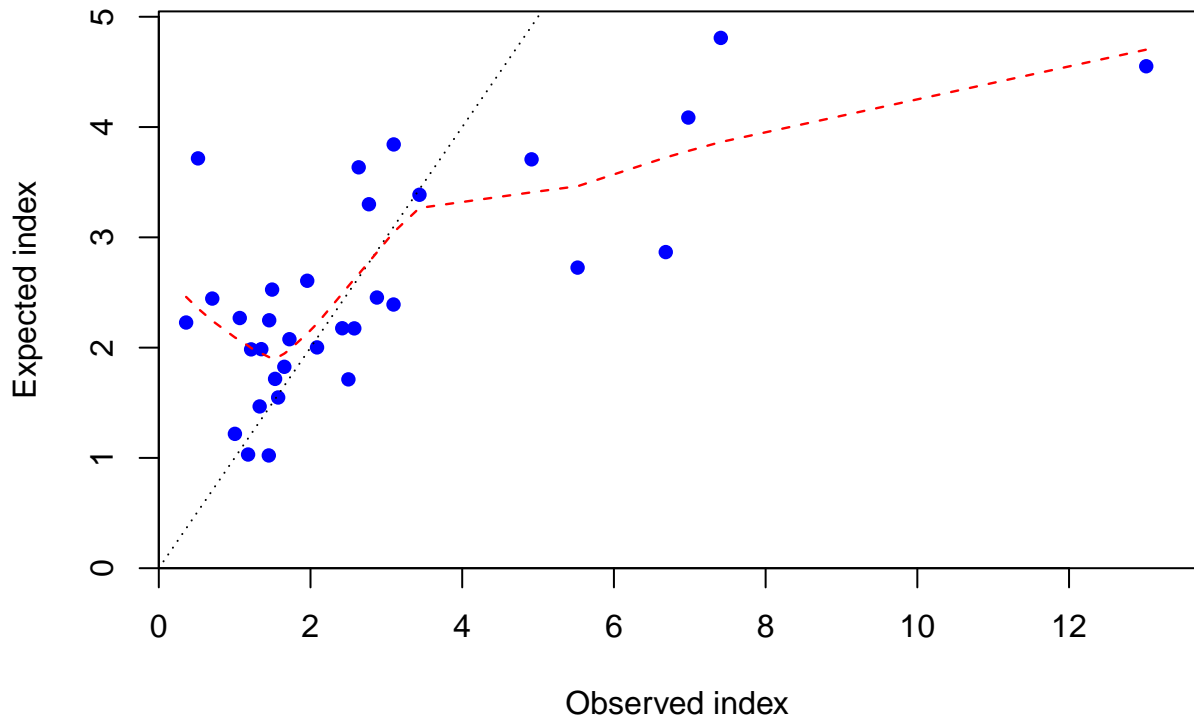


Index

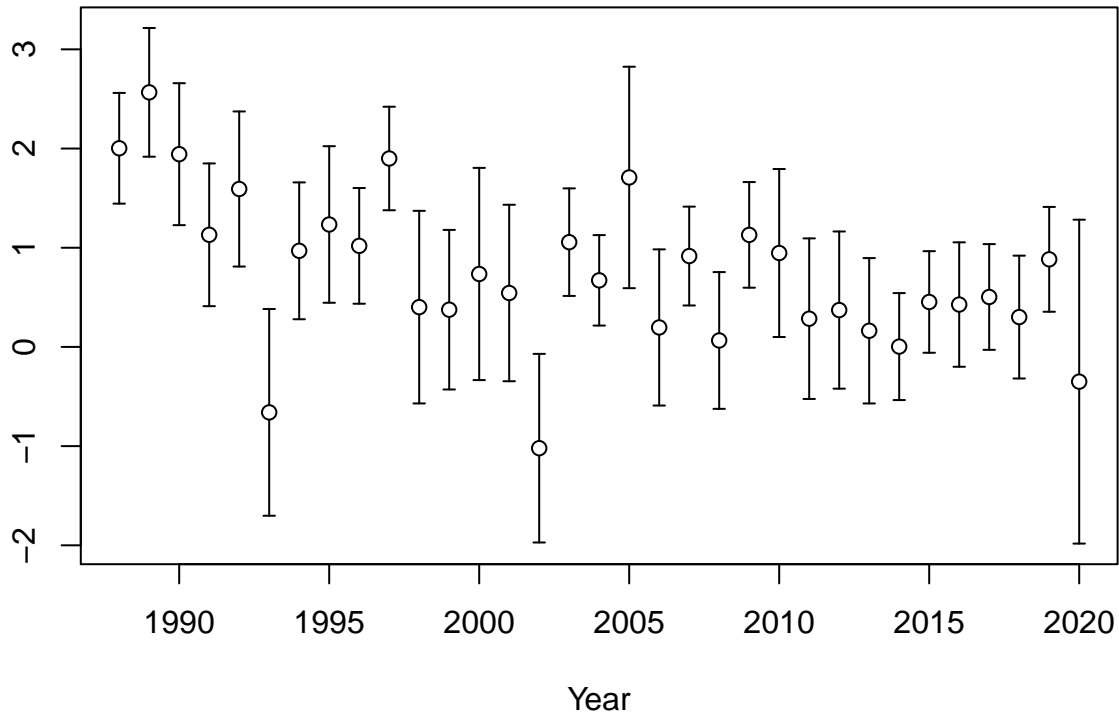


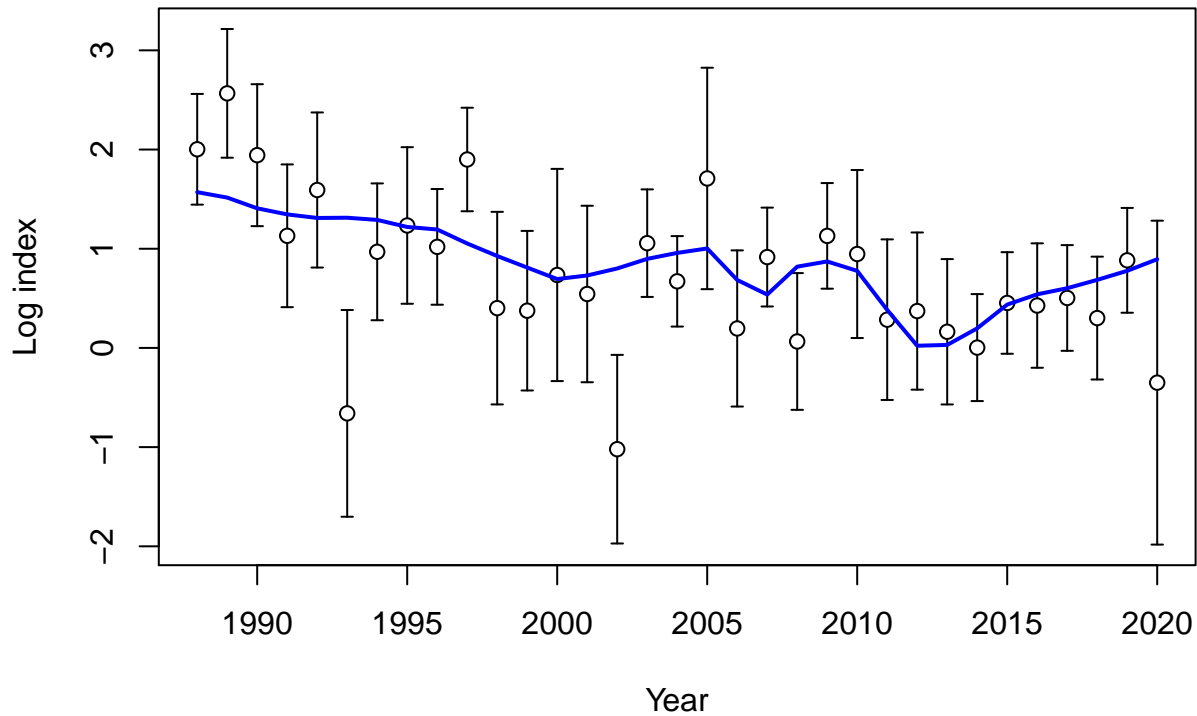
Index

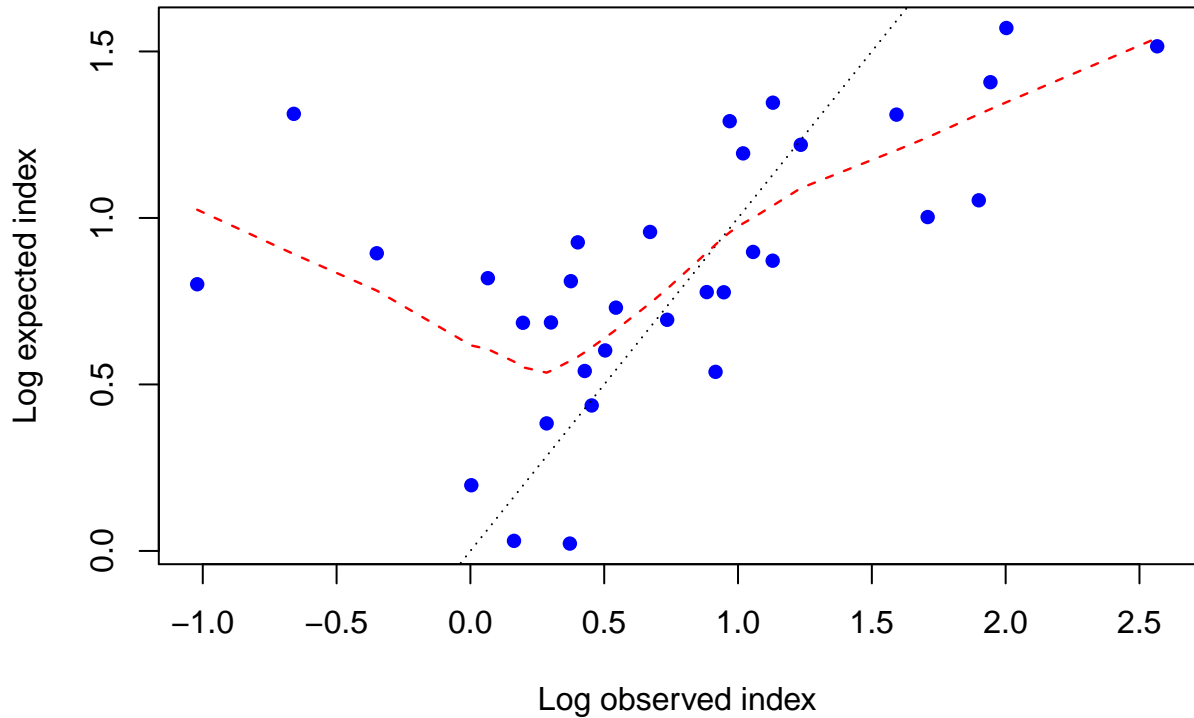


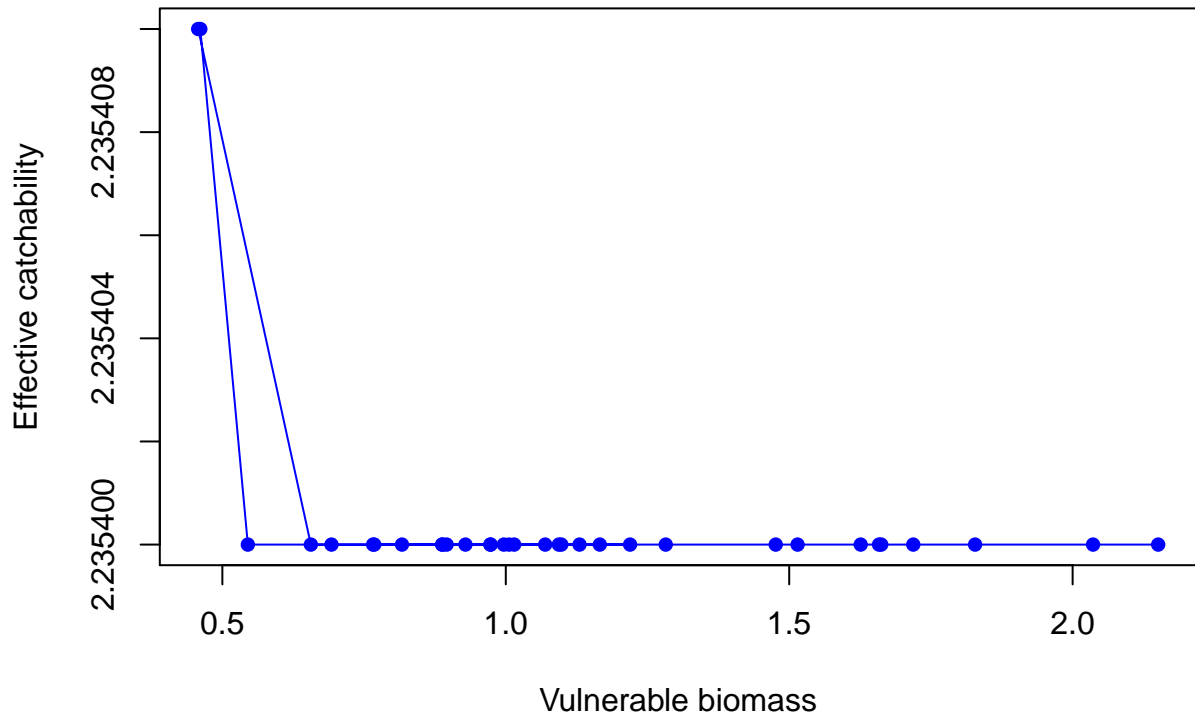


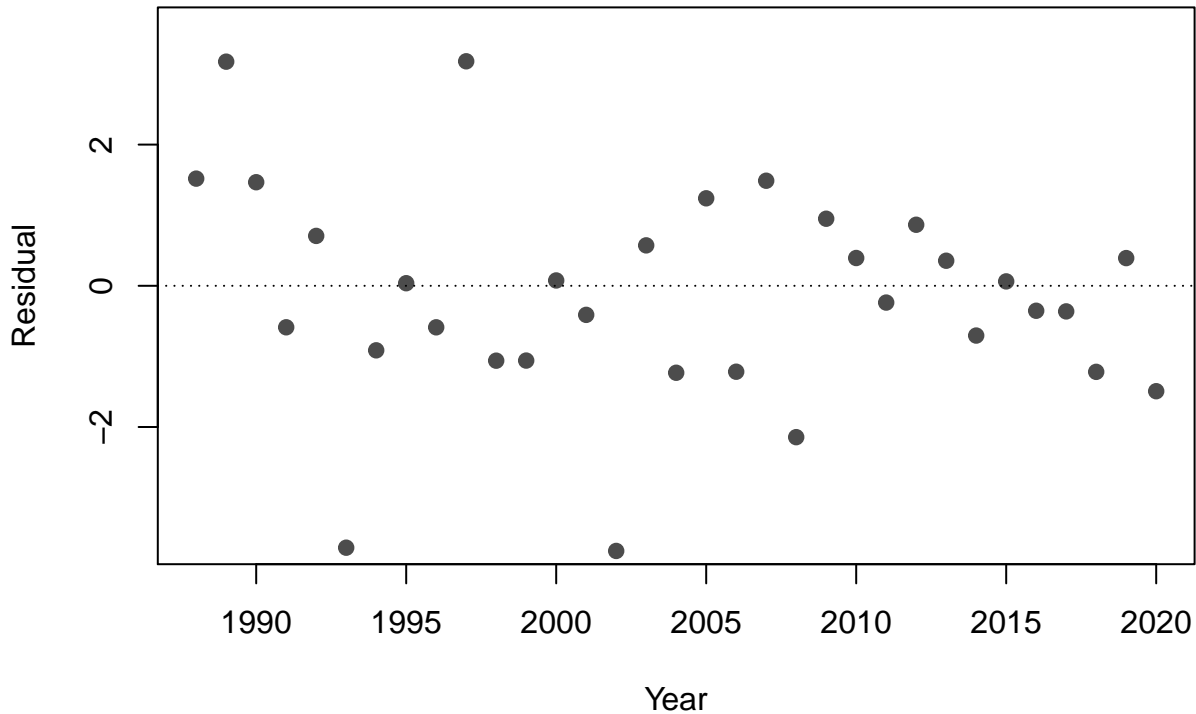
Log index

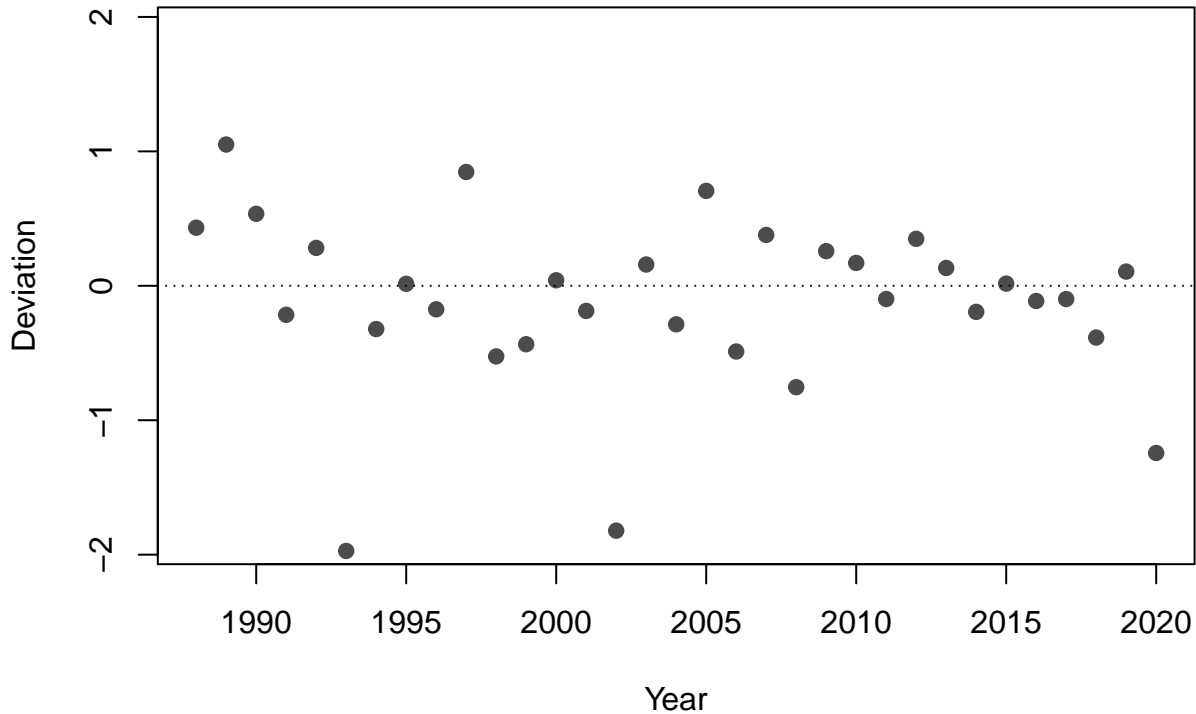




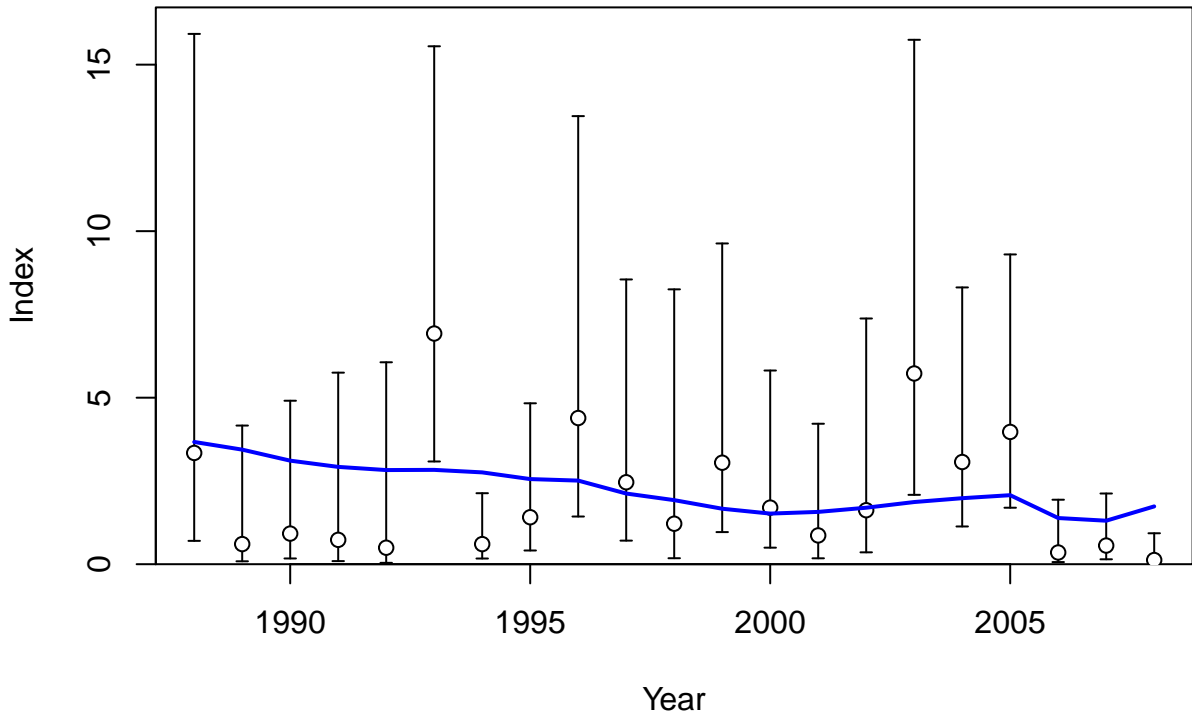


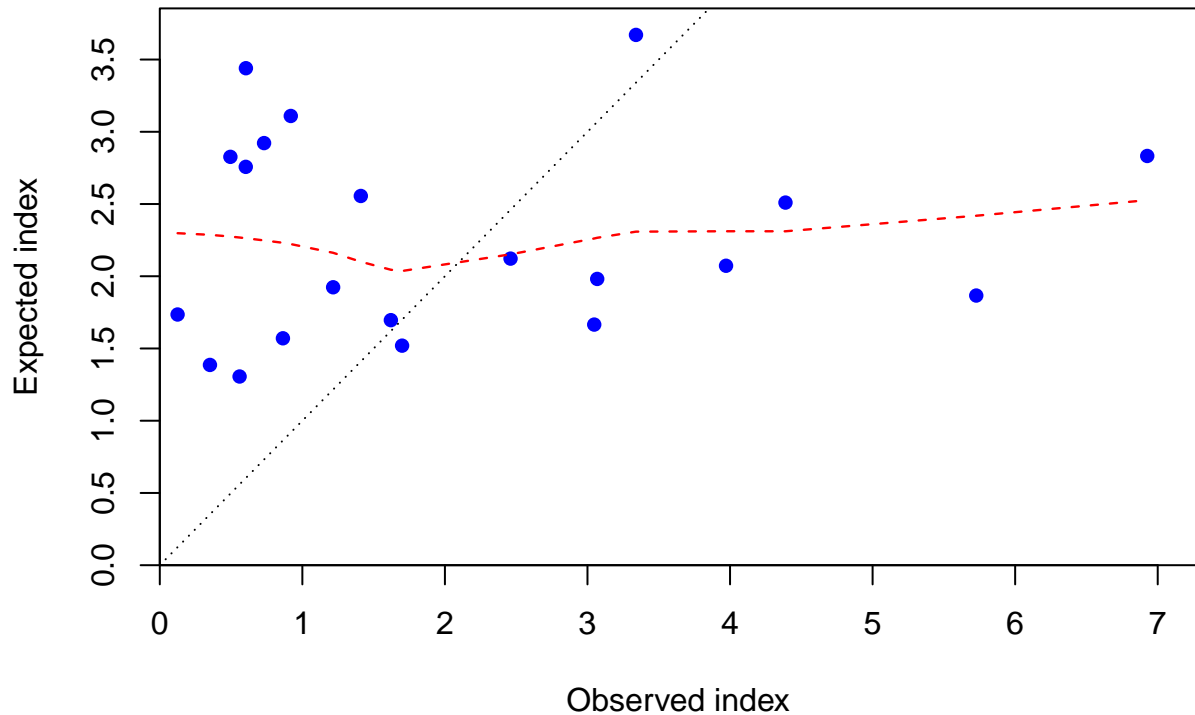








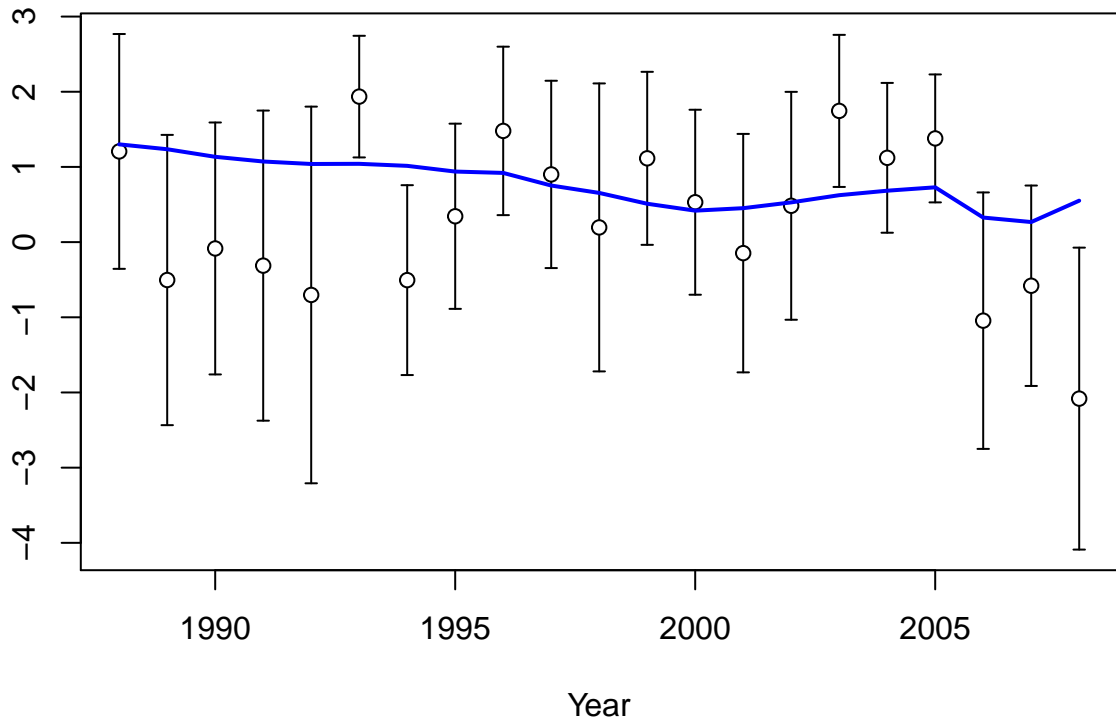


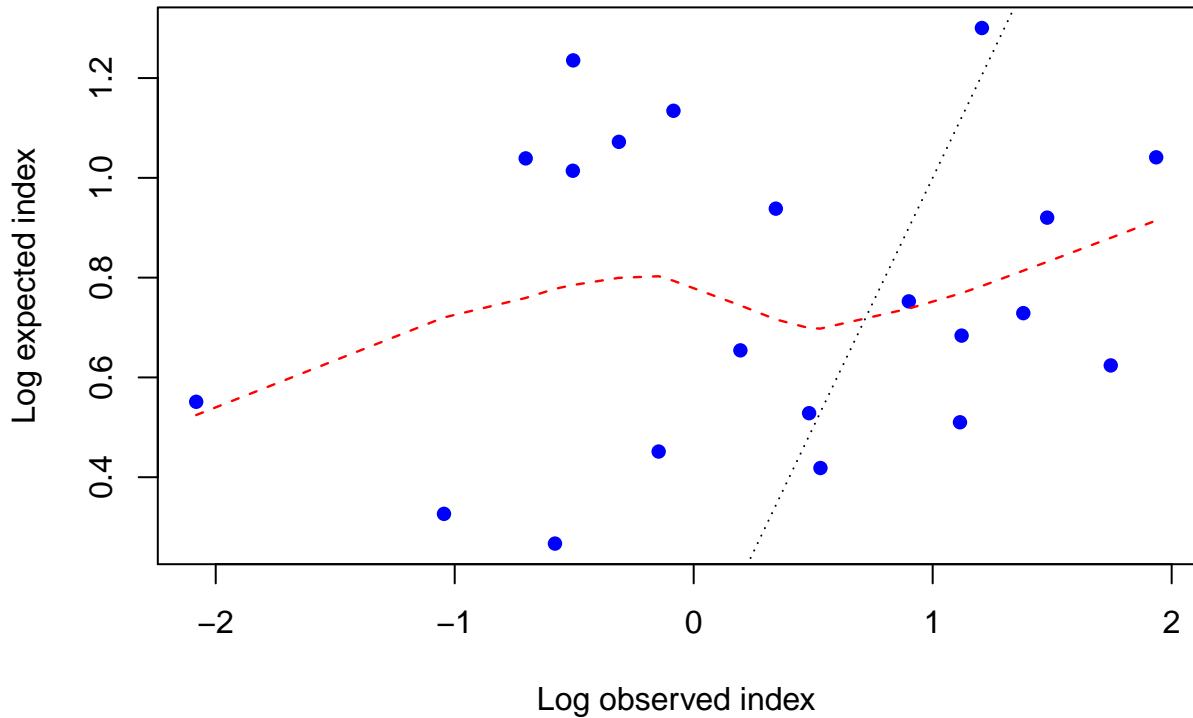


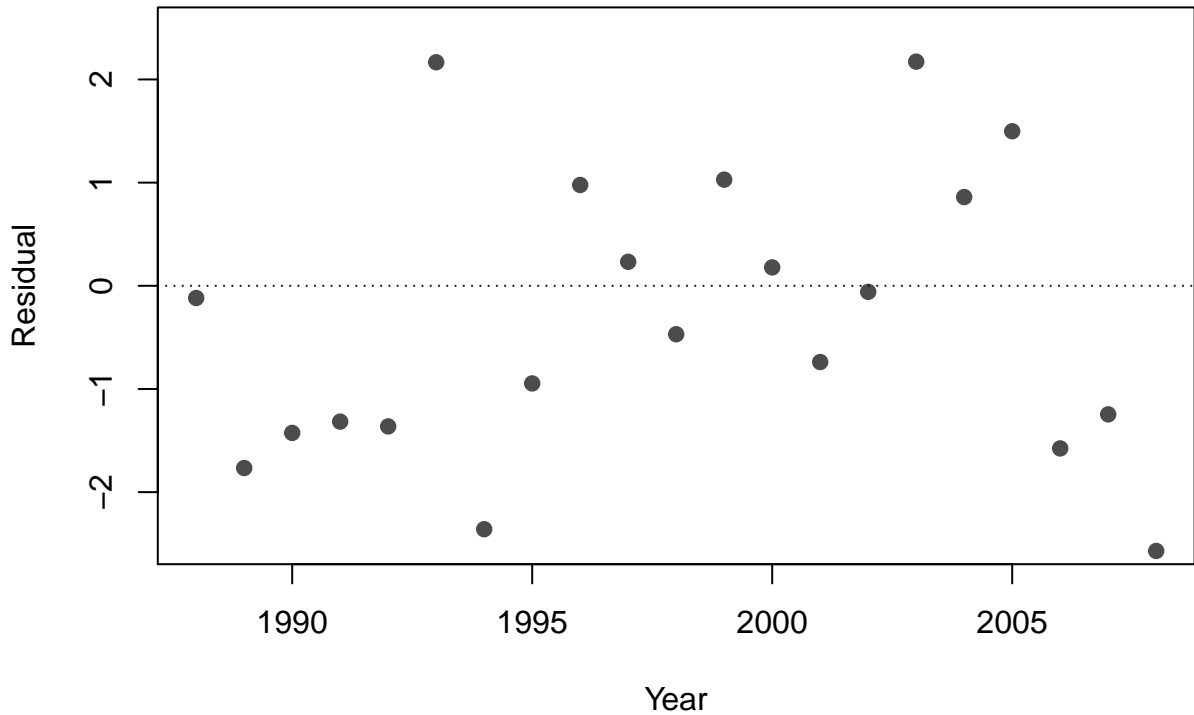
Log index

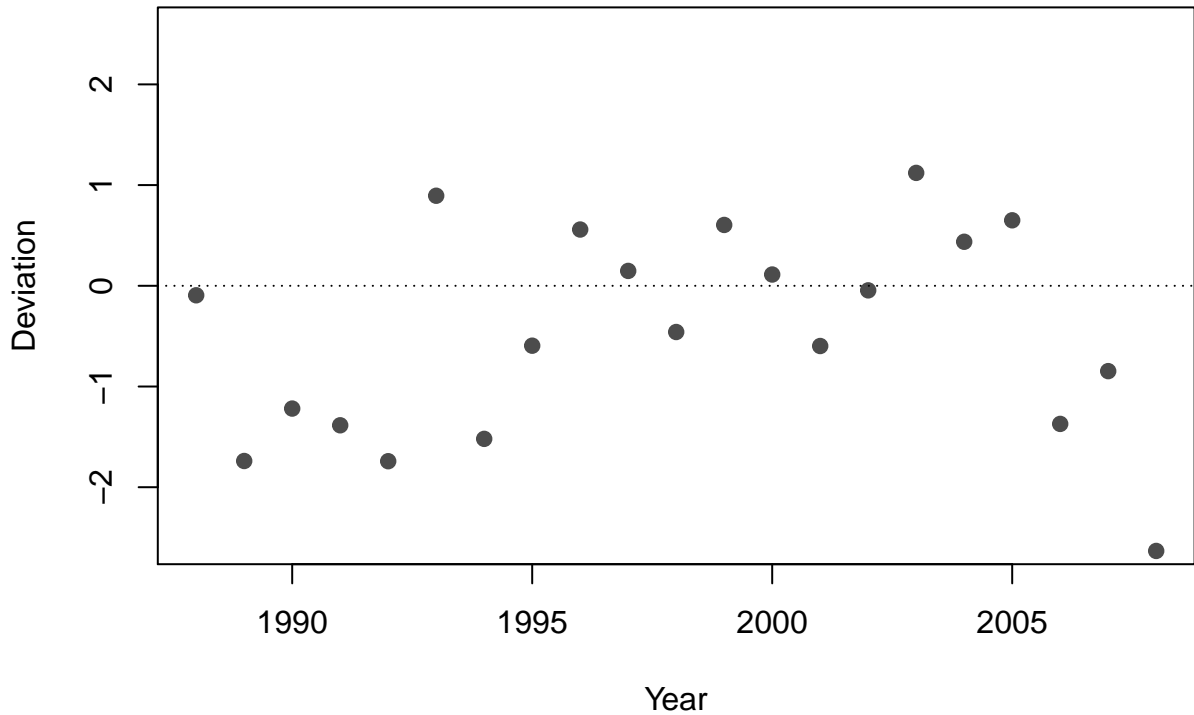


Log index



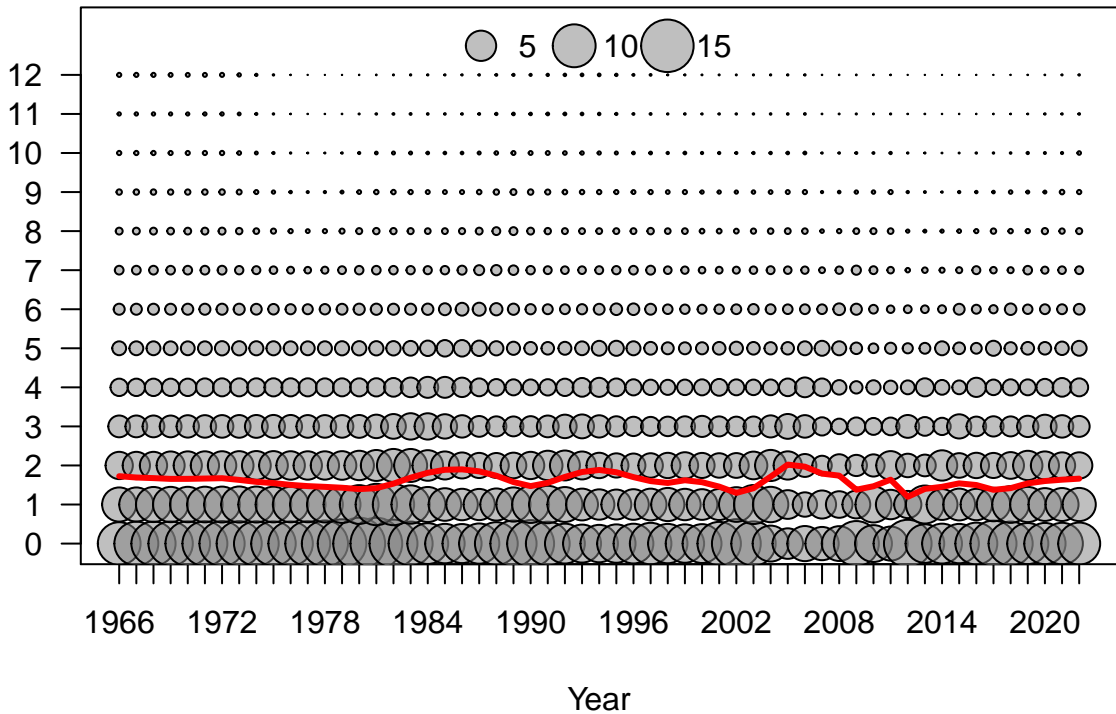


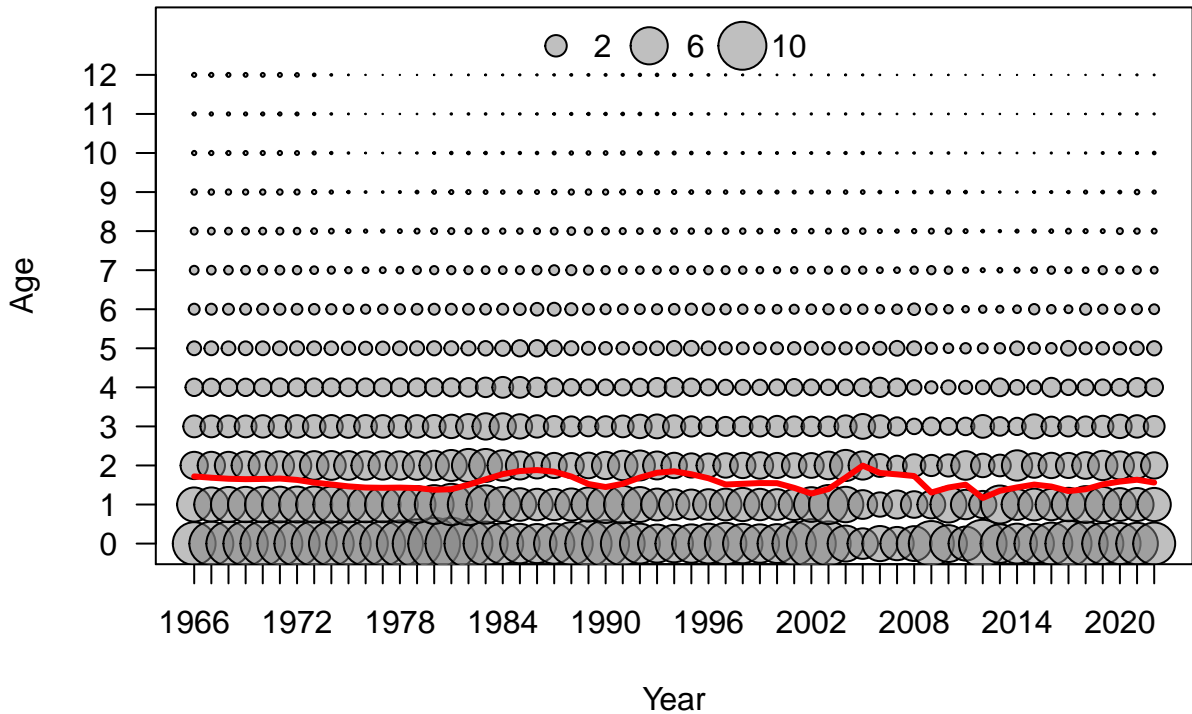


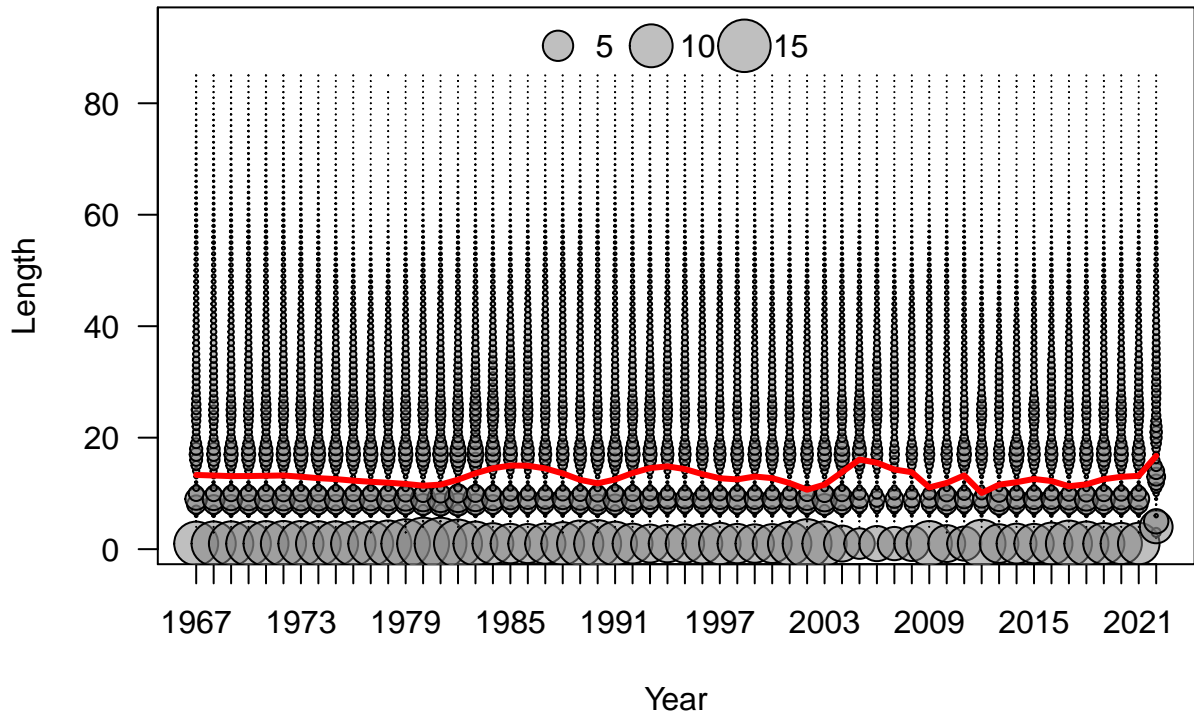


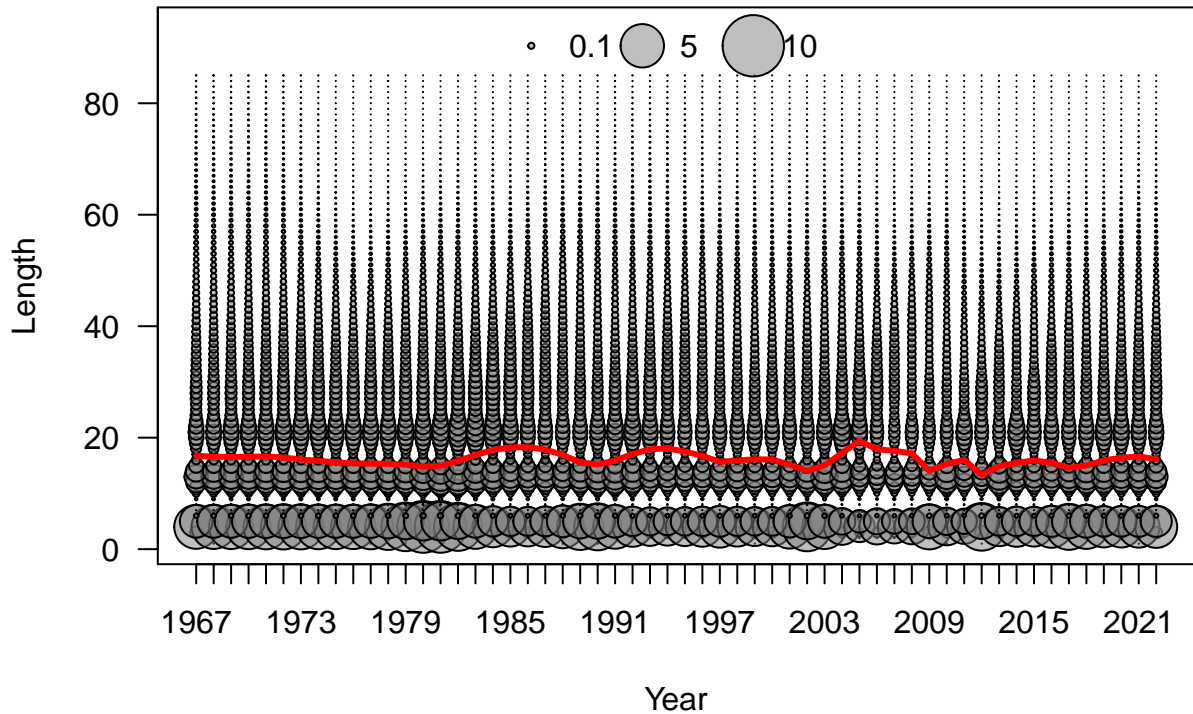


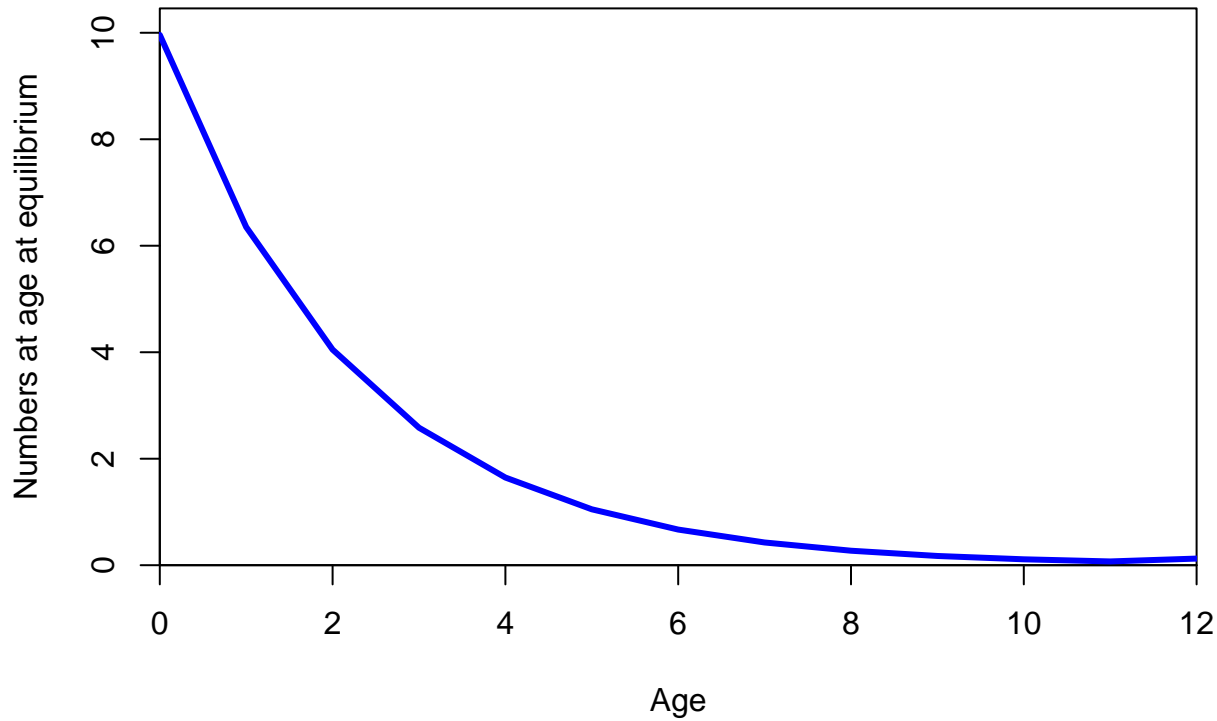
Age





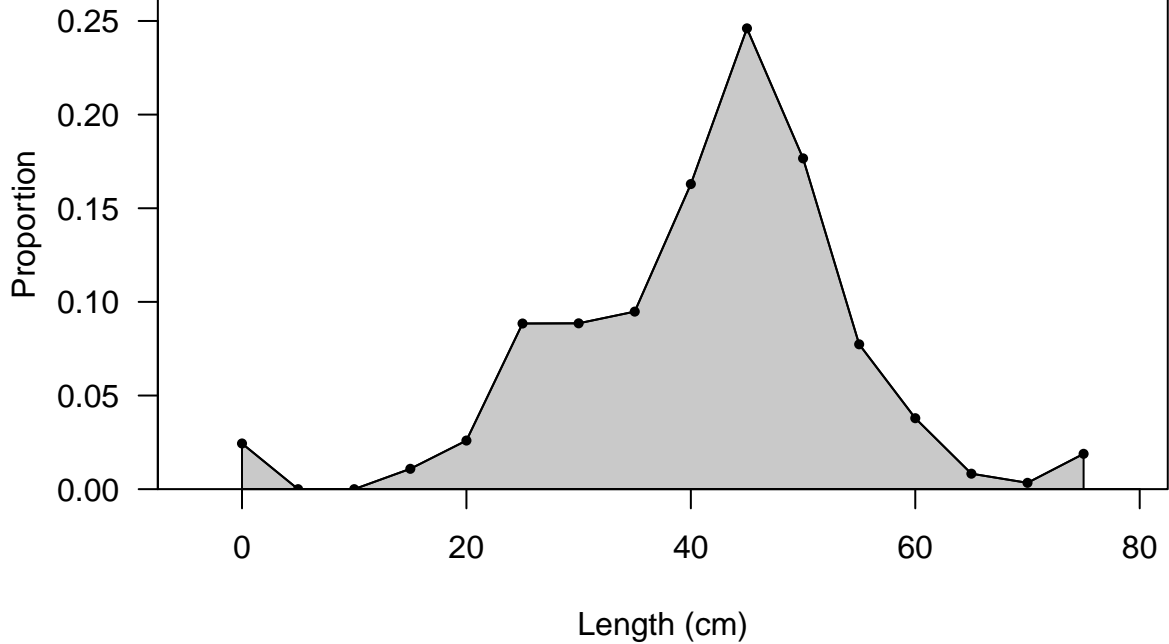


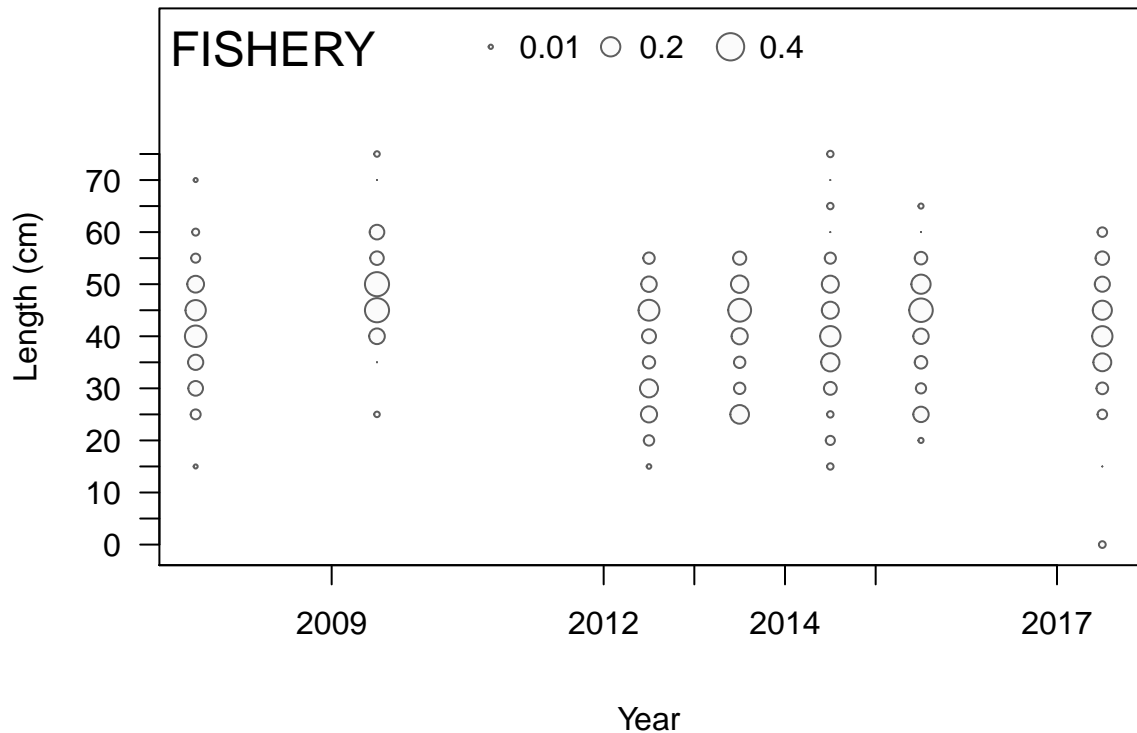




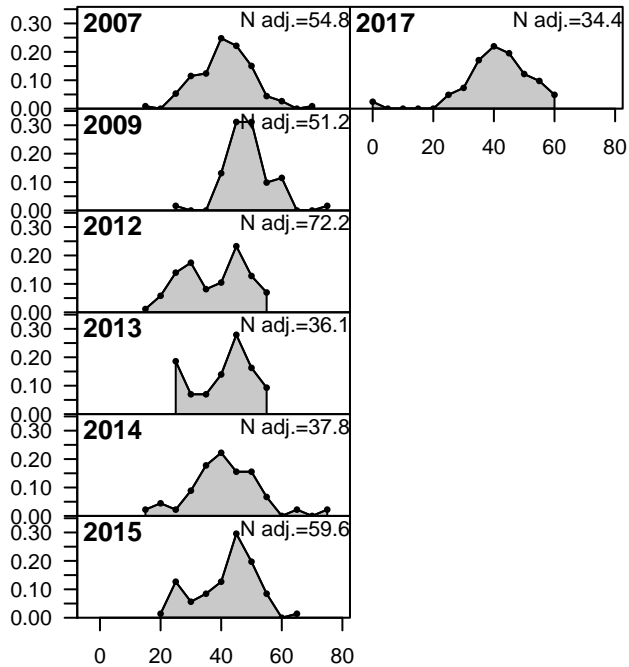
FISHERY

Sum of N adj.=346.3

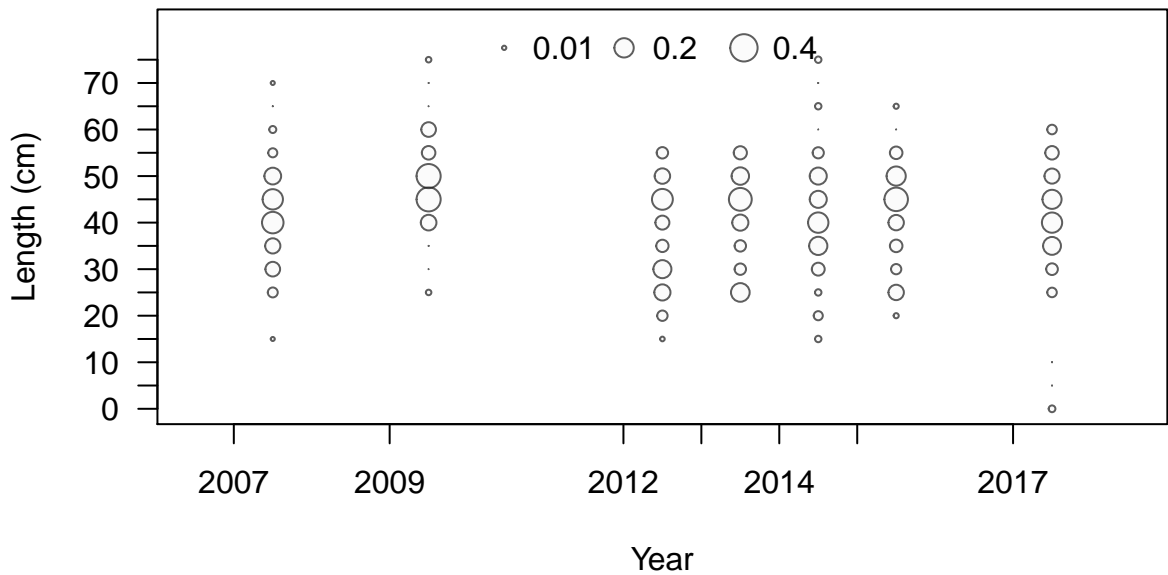




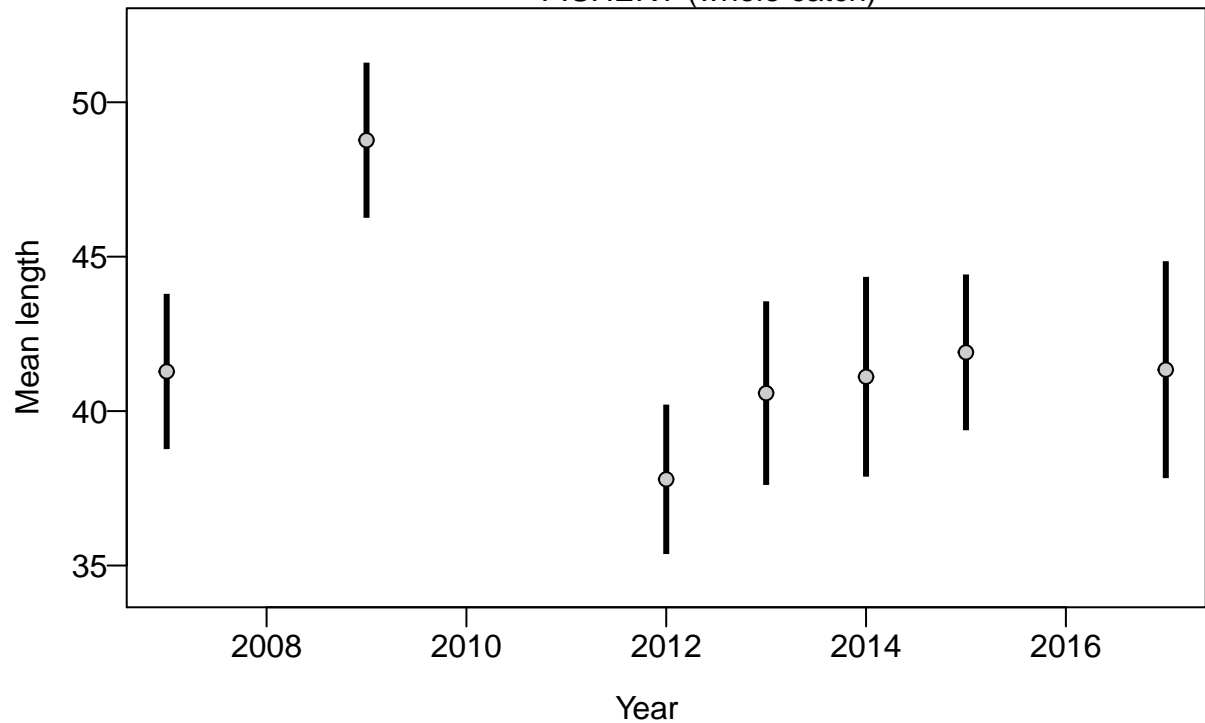
Proportion



Length (cm)

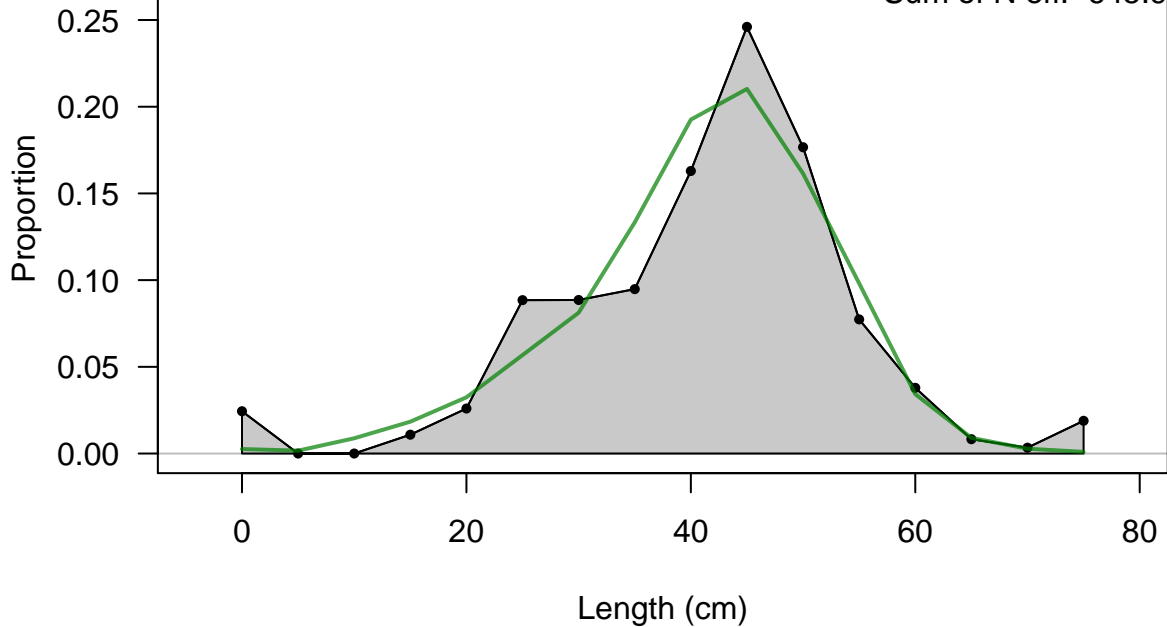


FISHERY (whole catch)



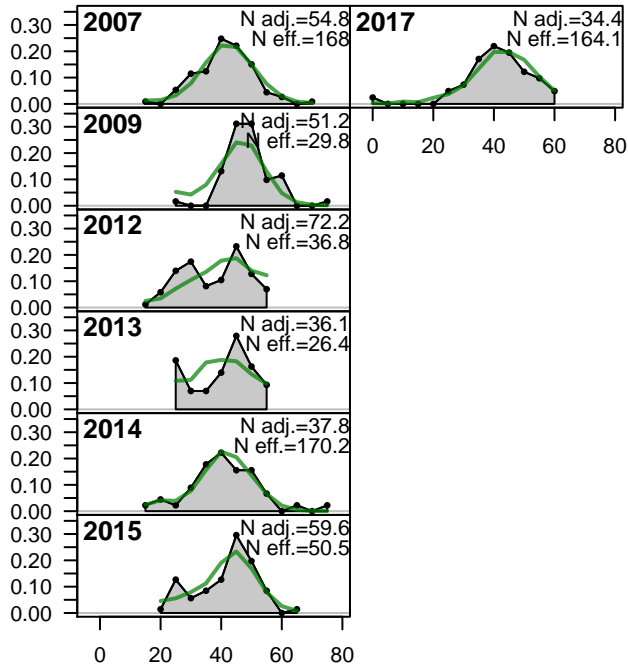
FISHERY

Sum of N adj.=346.3
Sum of N eff.=645.9

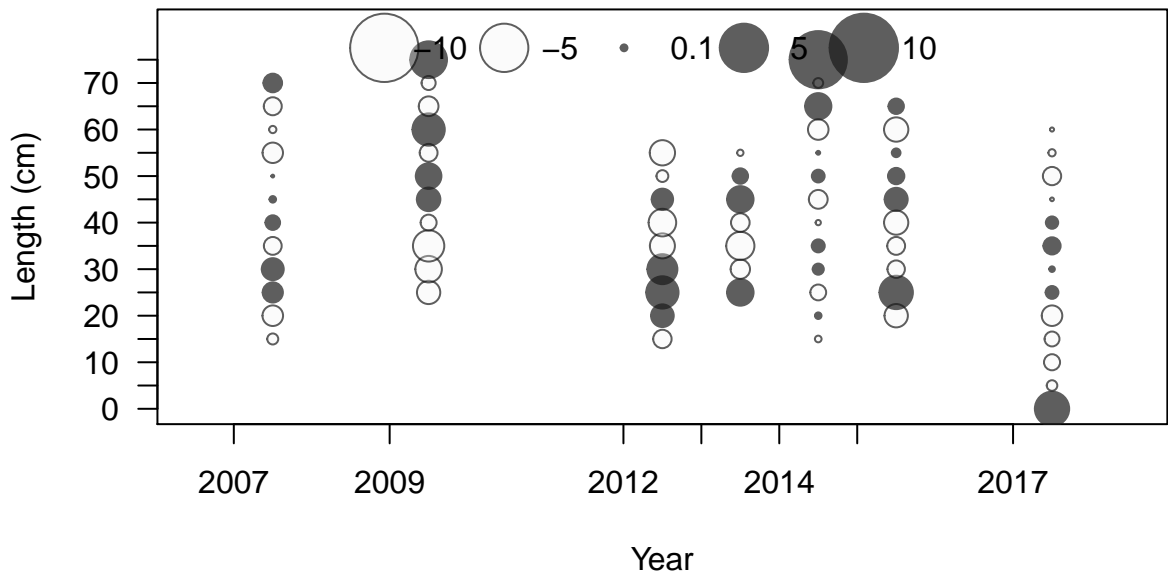




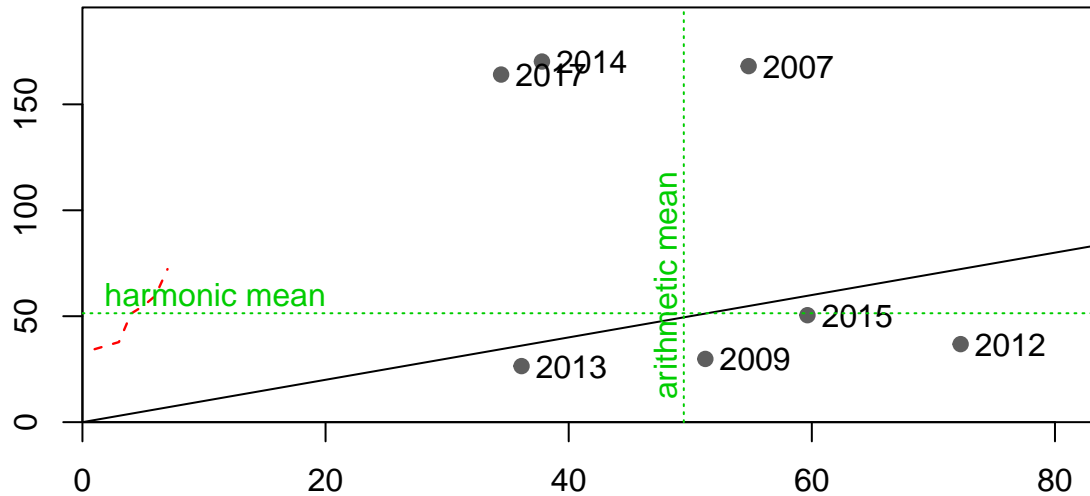
Proportion



Length (cm)

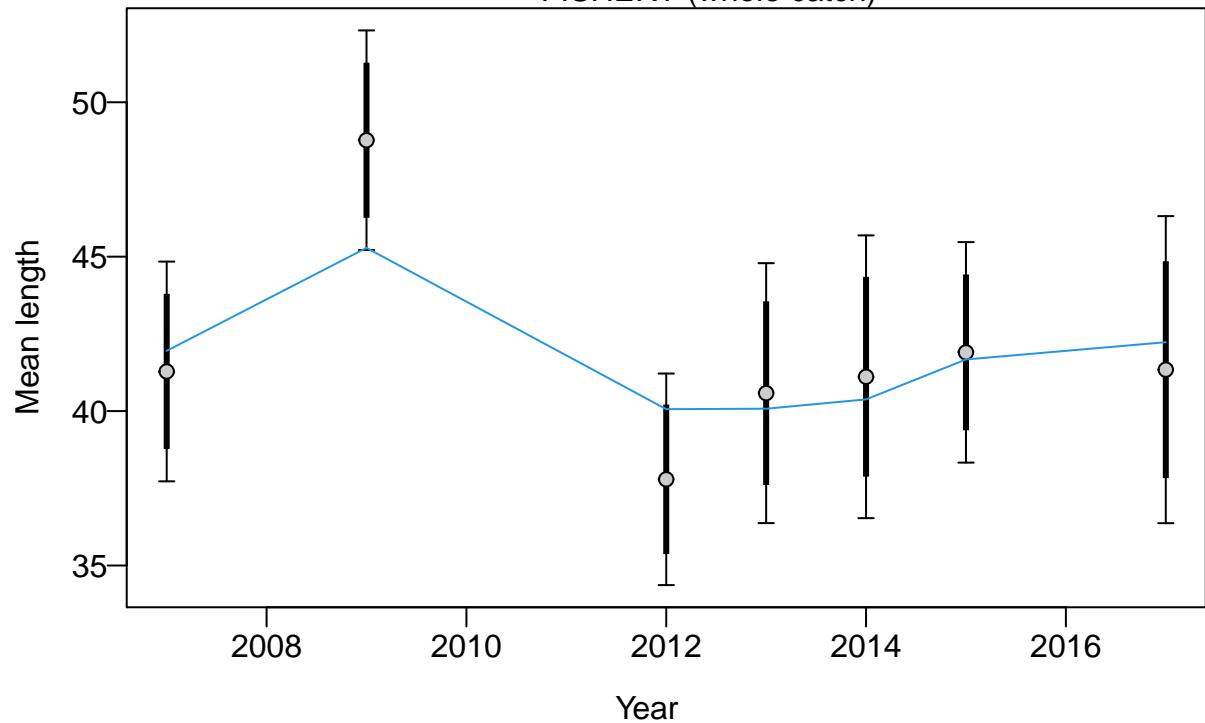


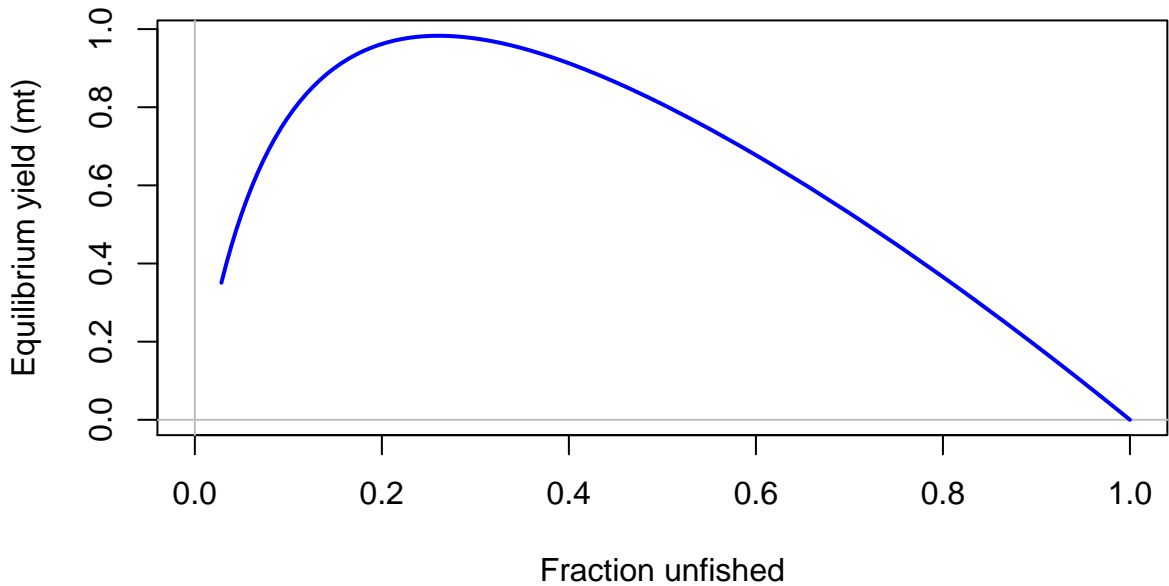
Effective sample size

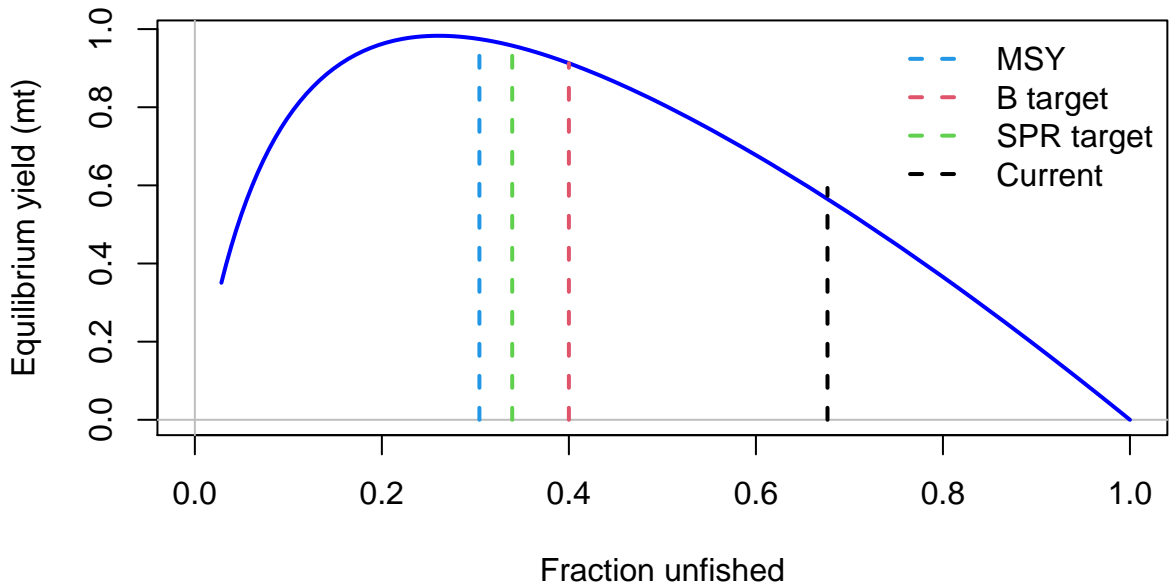


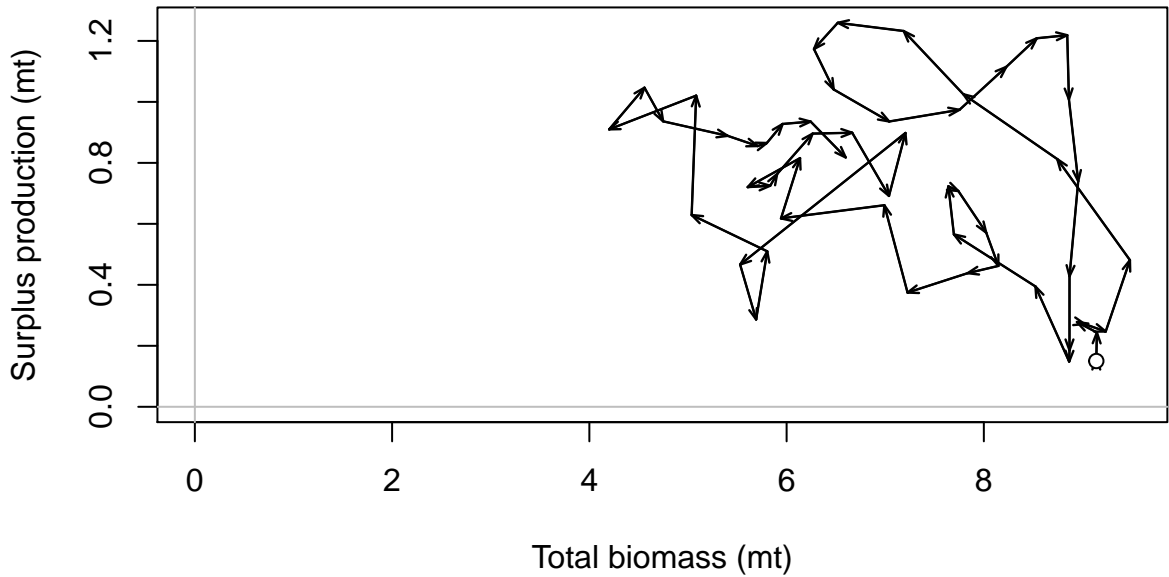
Observed sample size

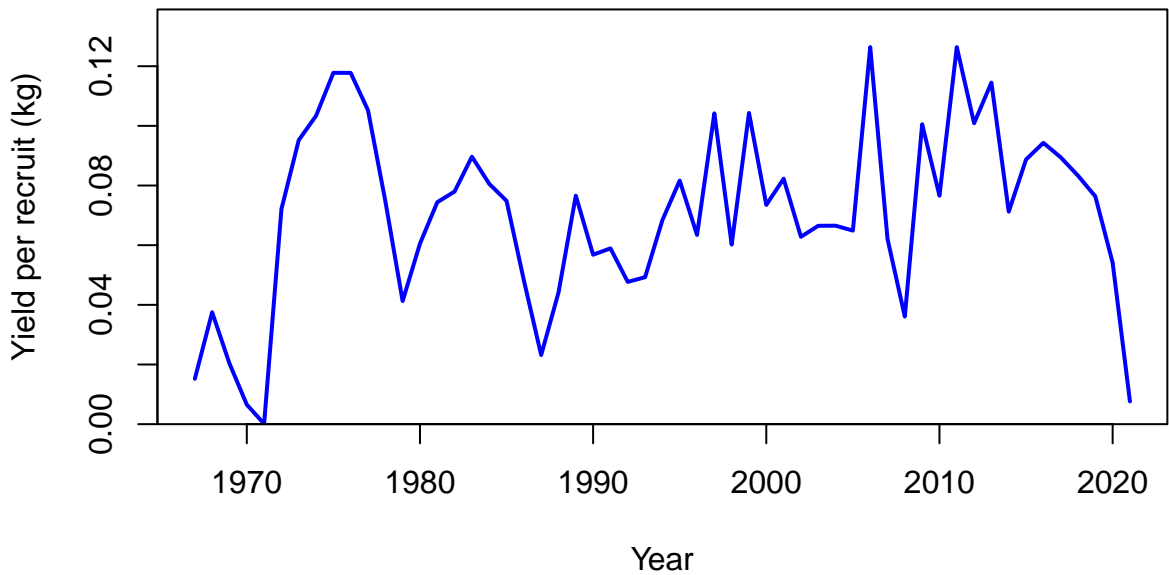
FISHERY (whole catch)

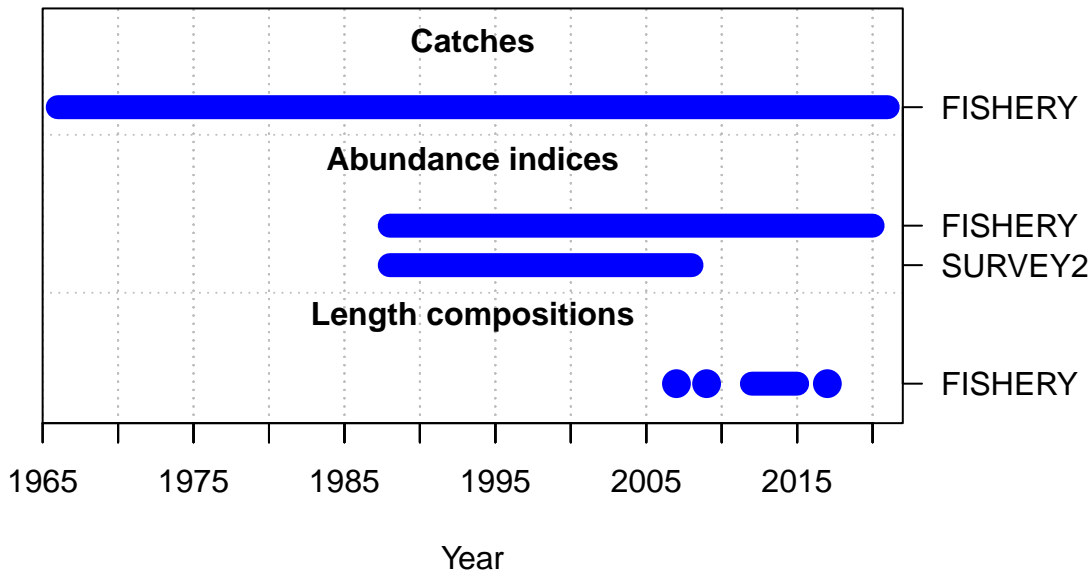


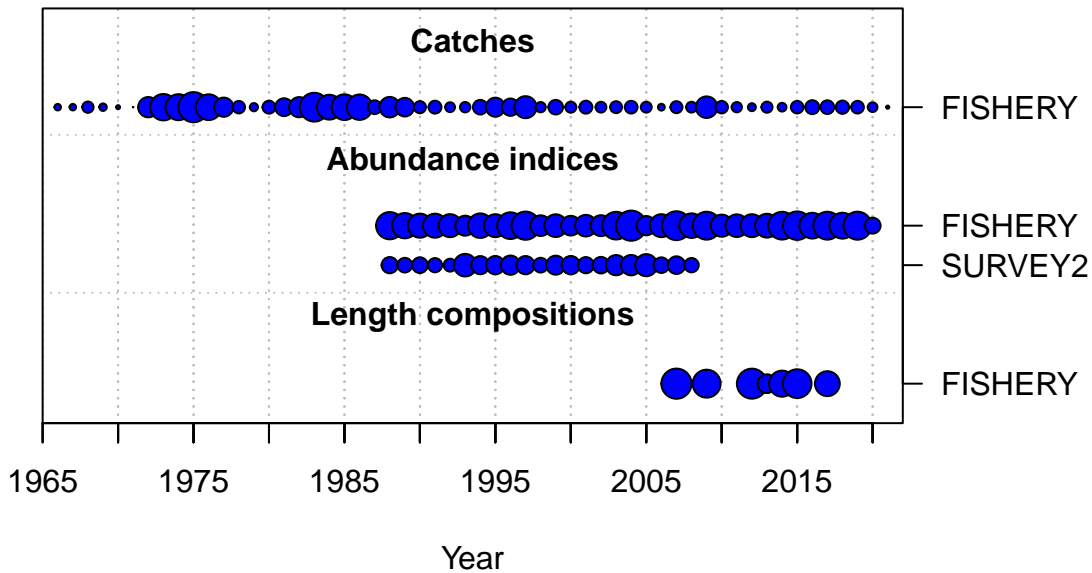




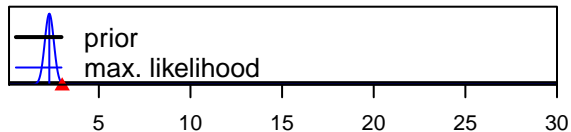




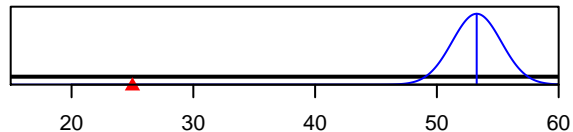




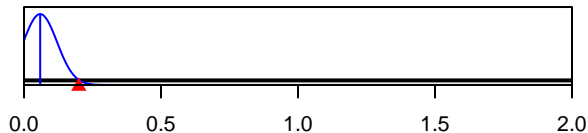
SR_LN(R0)



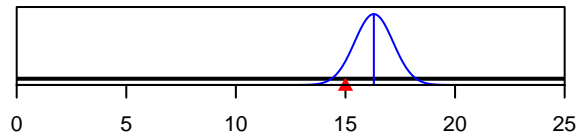
Size_inflection_FISHERY(1)



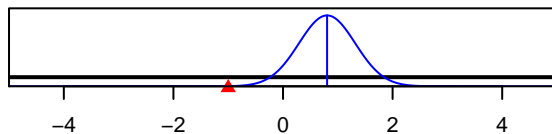
InitF_seas_1_flt_1FISHERY



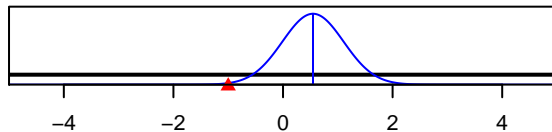
Size_95%width_FISHERY(1)



LnQ_base_FISHERY(1)



LnQ_base_SURVEY2(2)



Parameter value