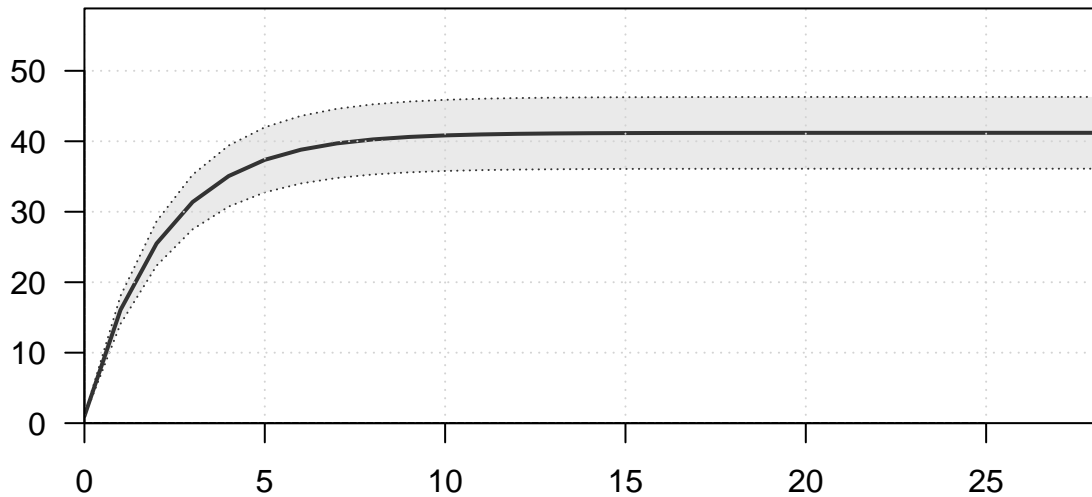


Plots created using the 'r4ss' package in R
Stock Synthesis version: 3.30.19.0
StartTime: Wed Aug 24 16:16:36 2022
Data_File: data.ss
Control_File: control.ss

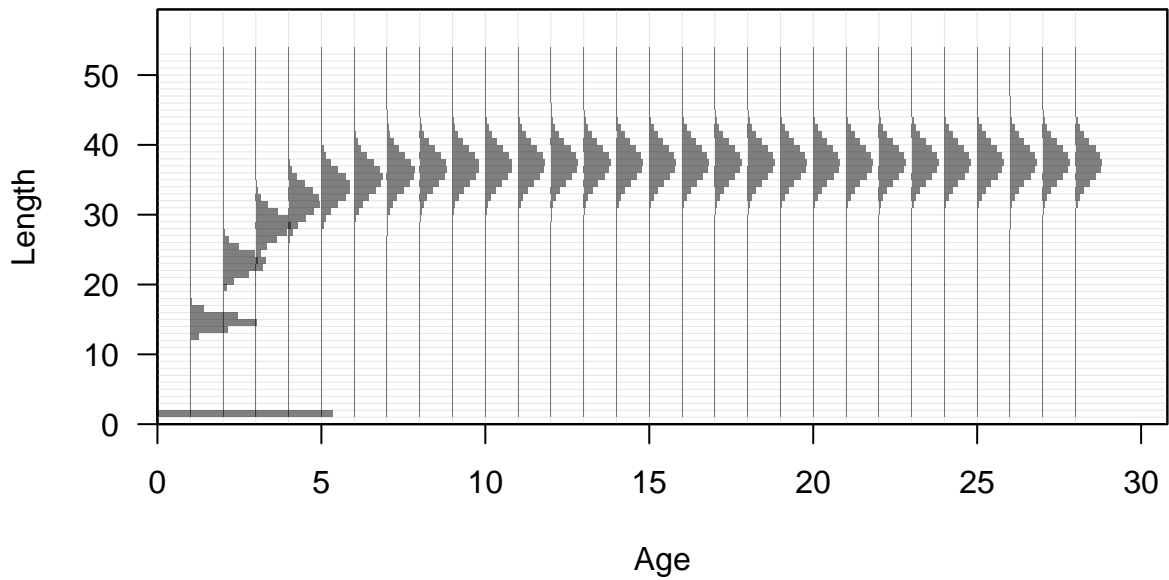
Length (cm, beginning of the year)



Age (yr)

























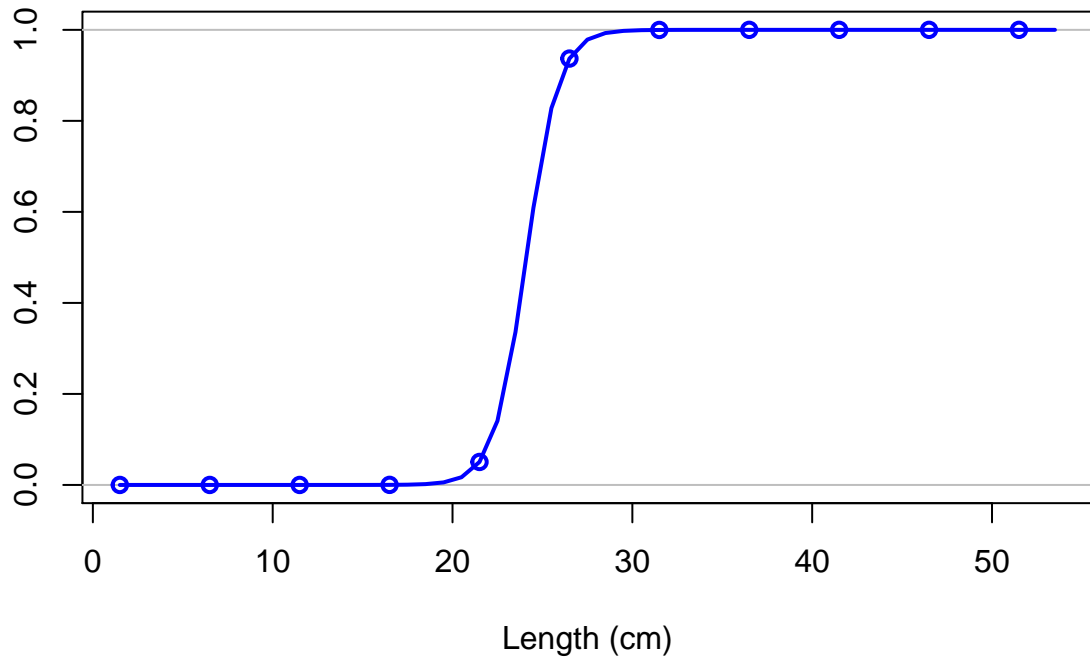




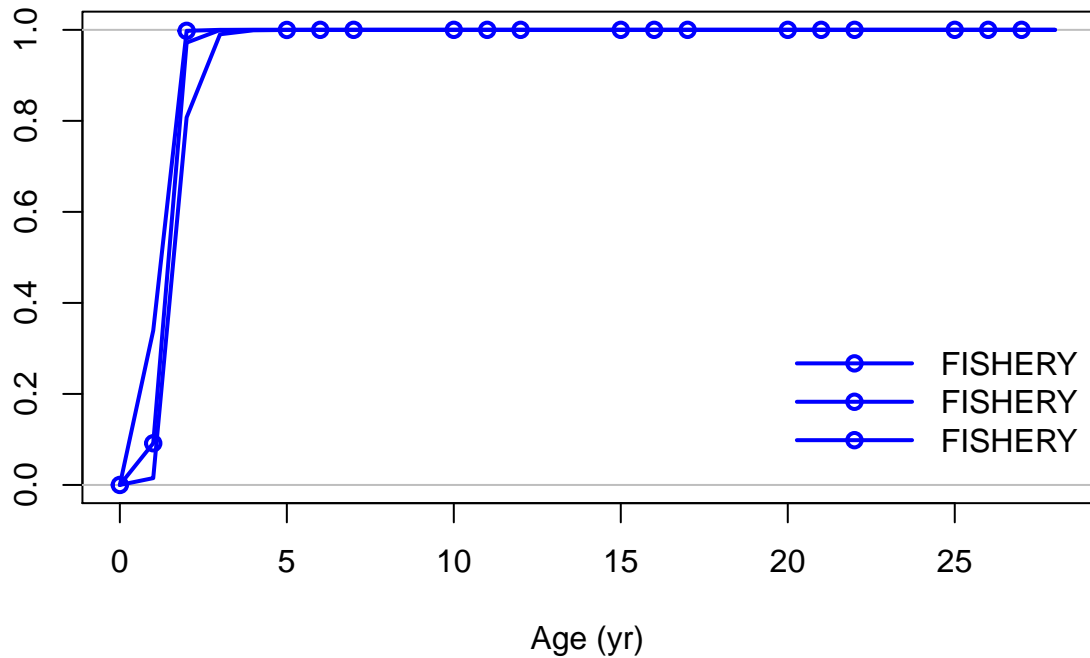
Spawning output



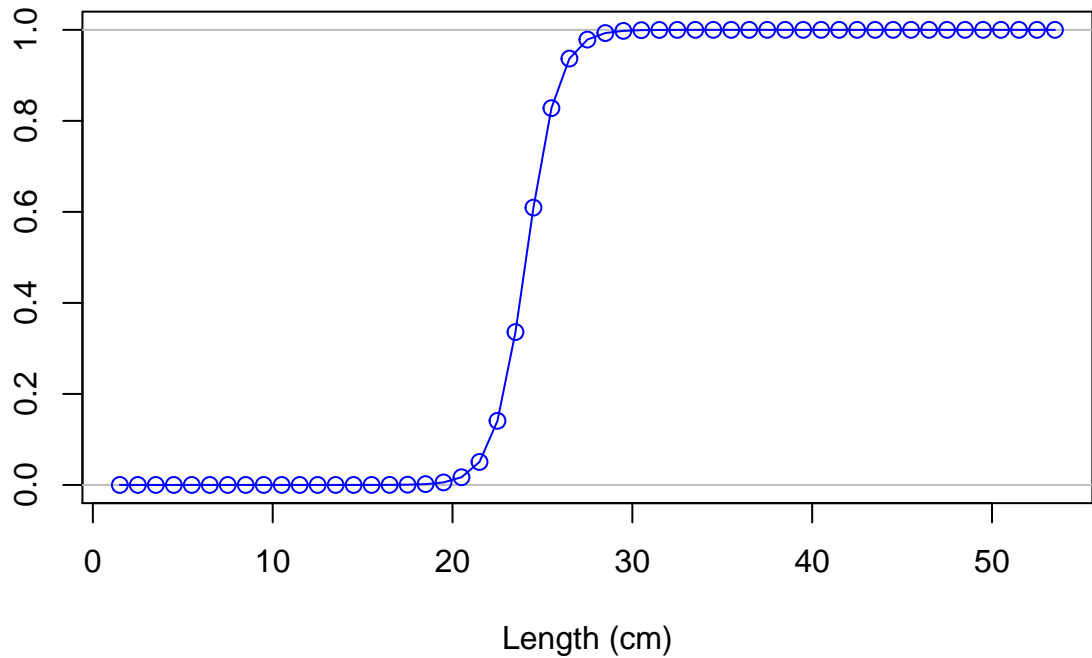
Selectivity

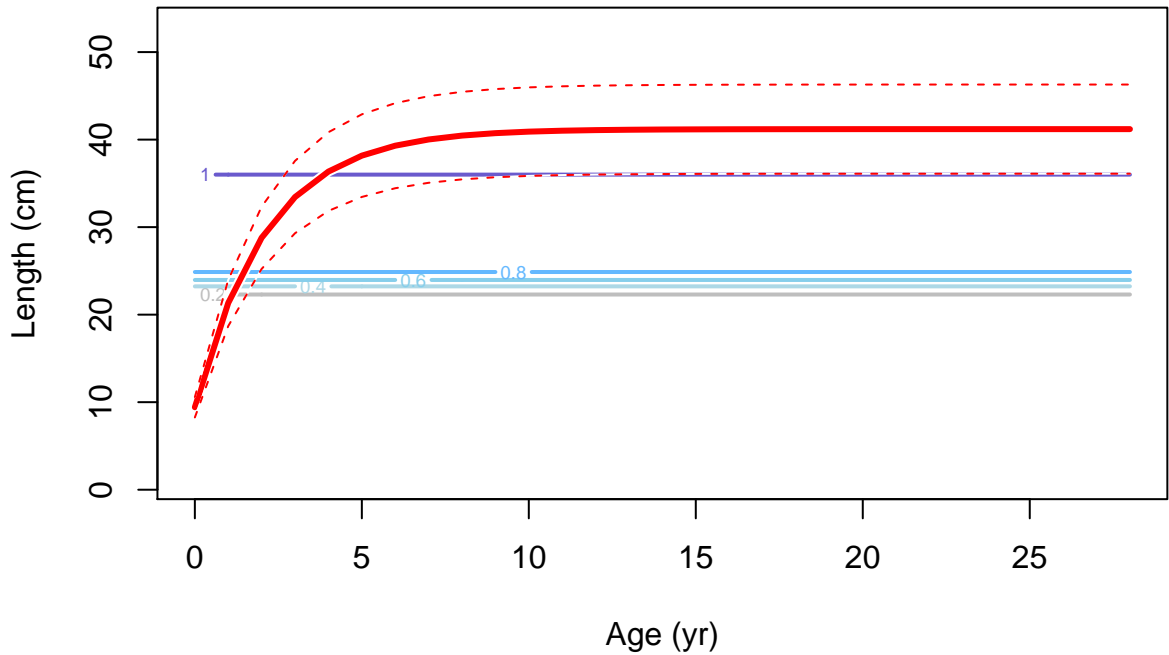


Selectivity

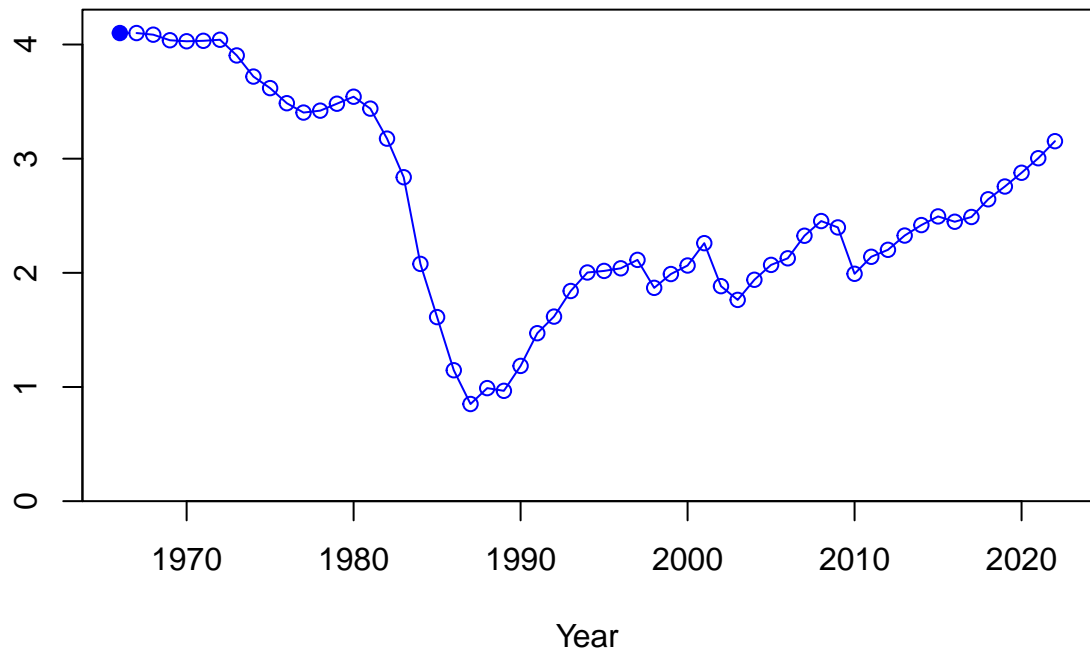


Selectivity

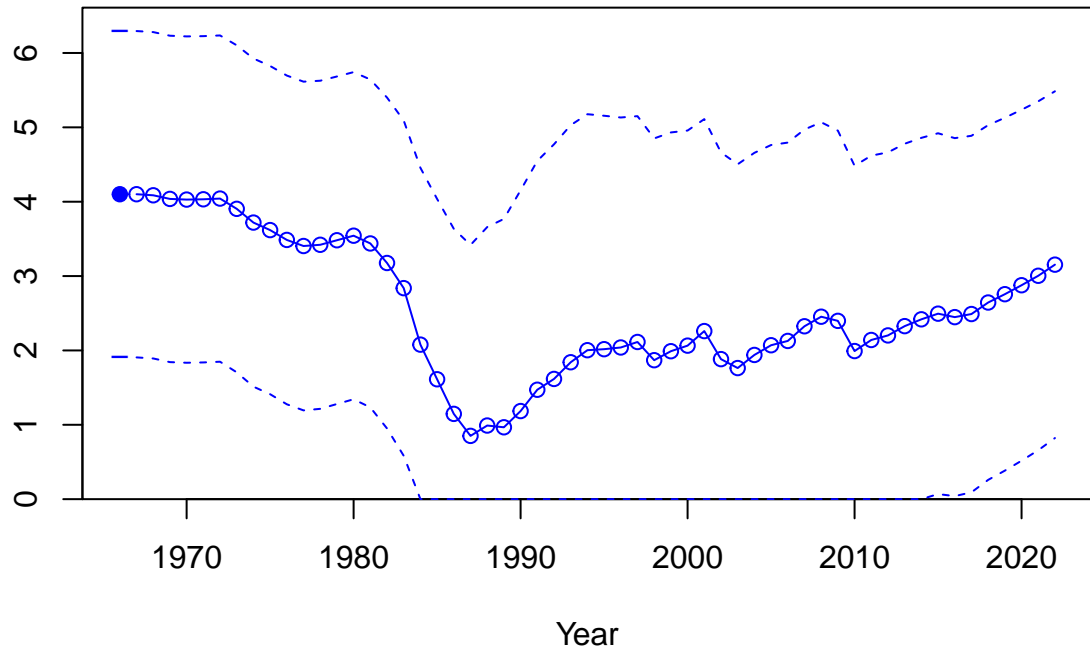




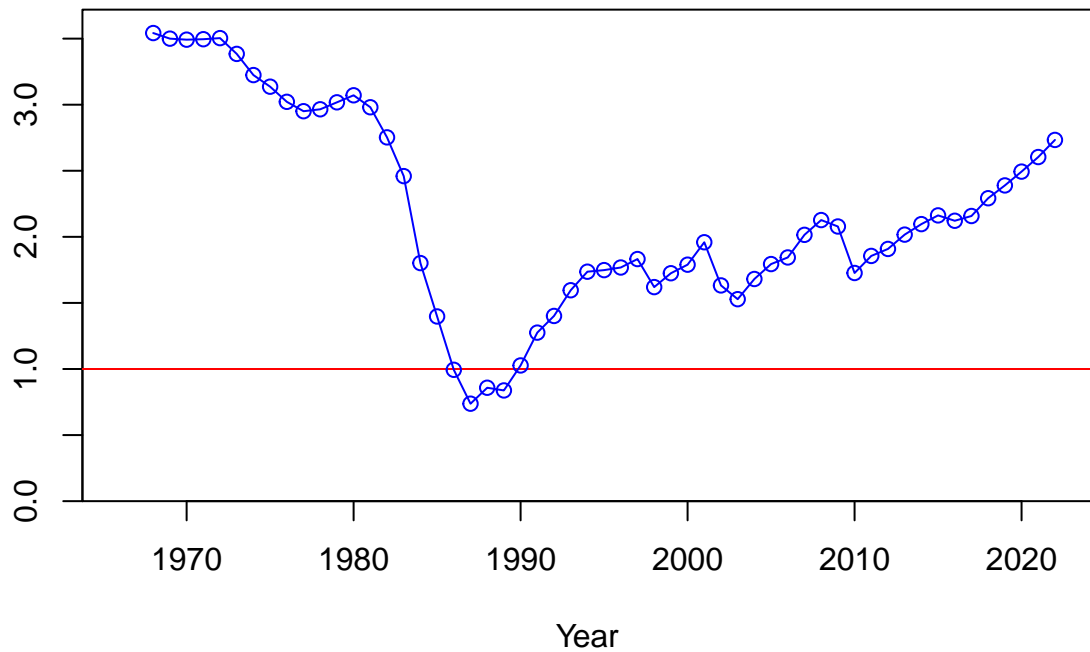
Spawning biomass (mt)



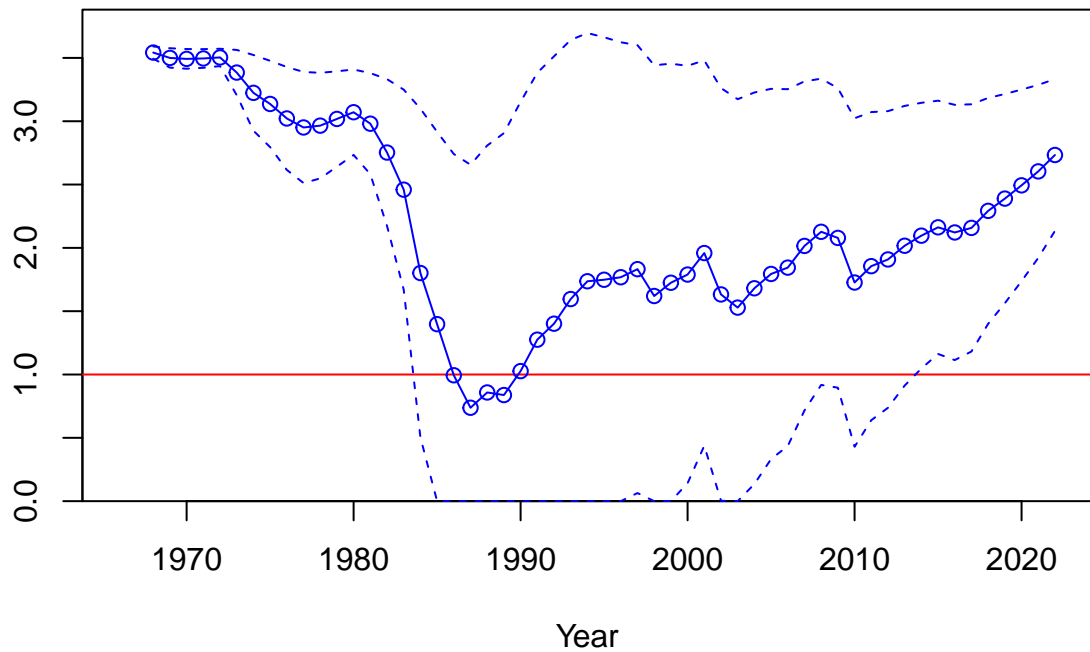
Spawning biomass (mt)

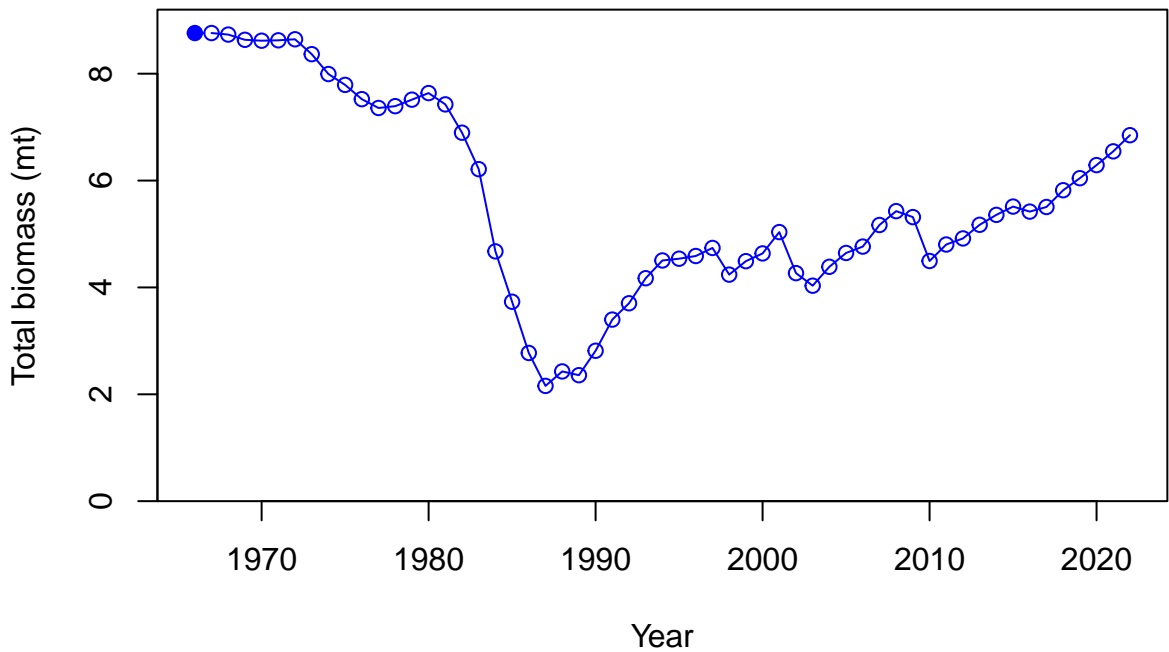


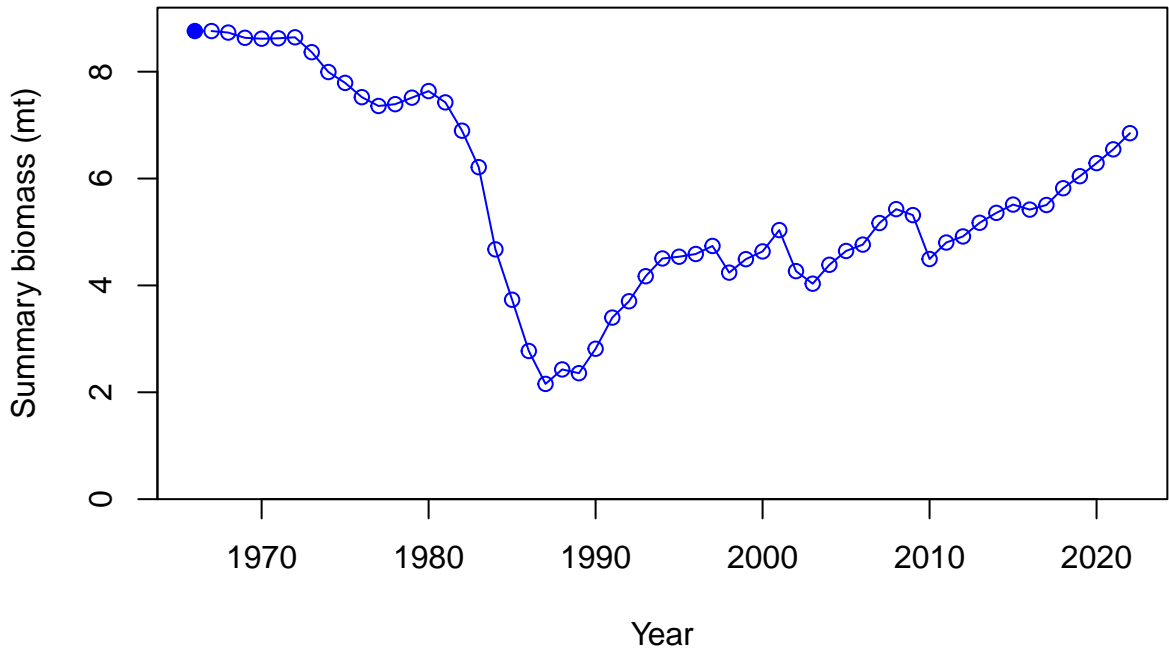
Relative spawning biomass: B/B_{MSY}



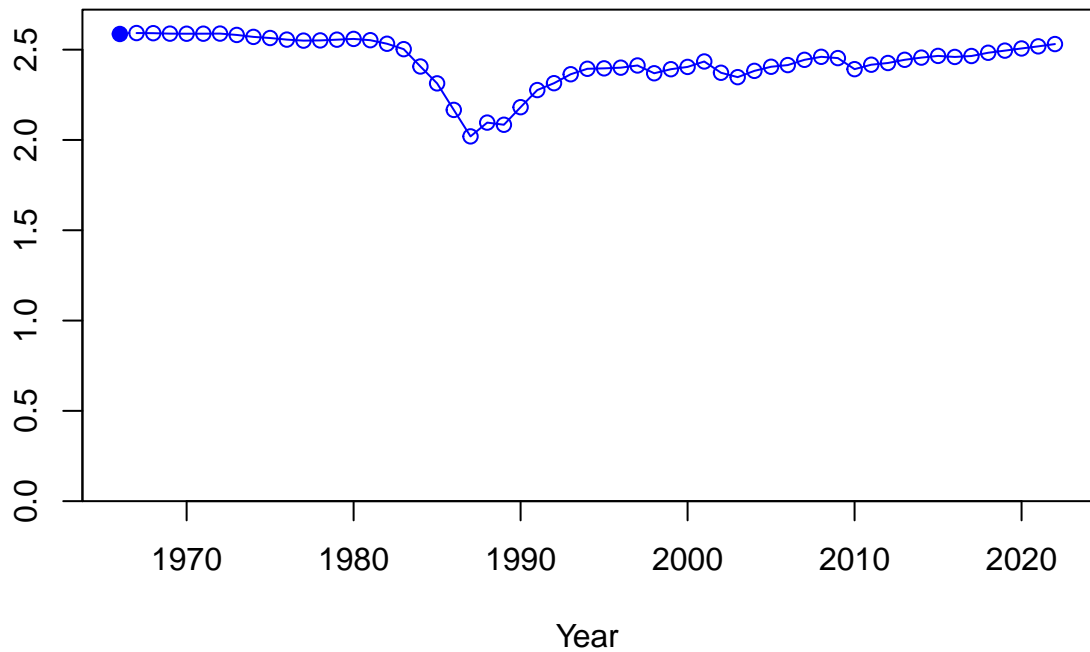
Relative spawning biomass: B/B_{MSY}



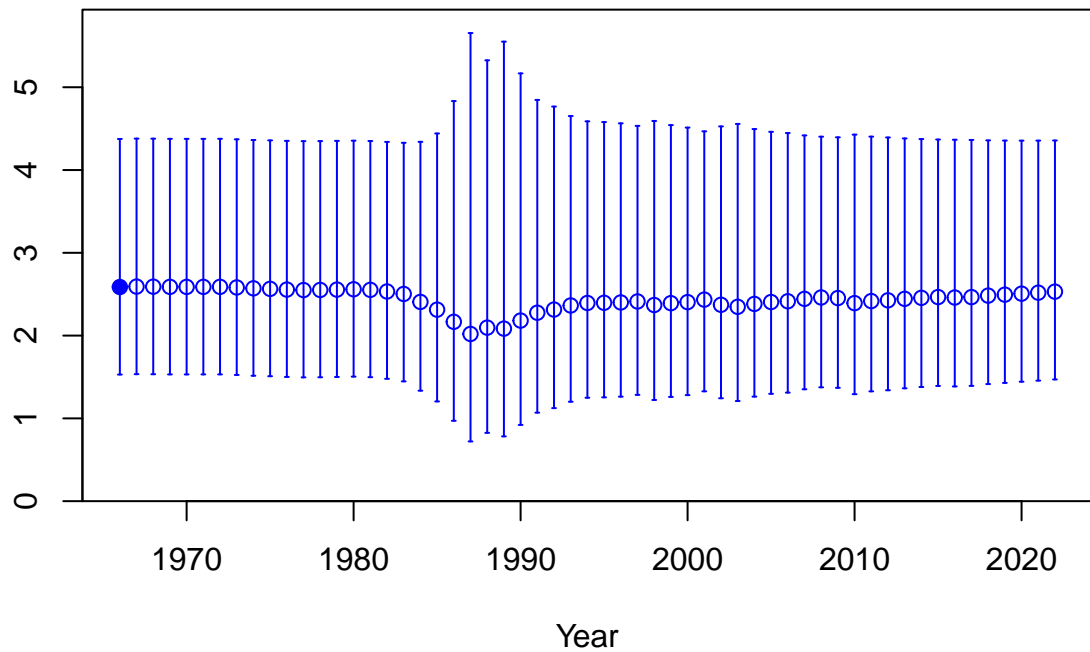




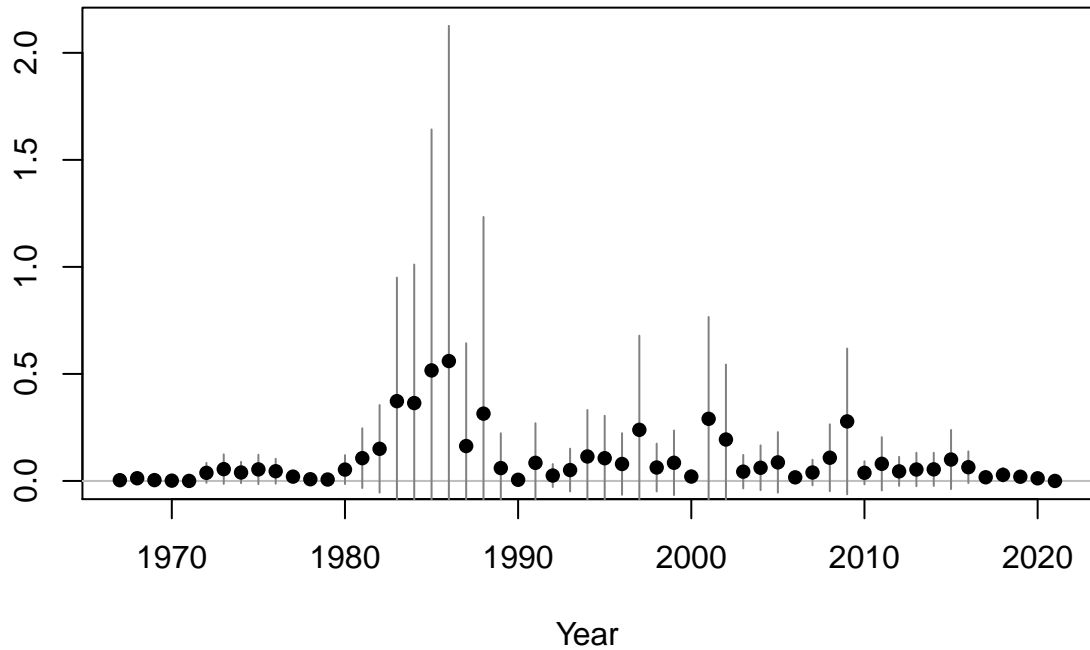
Age-0 recruits (1,000s)

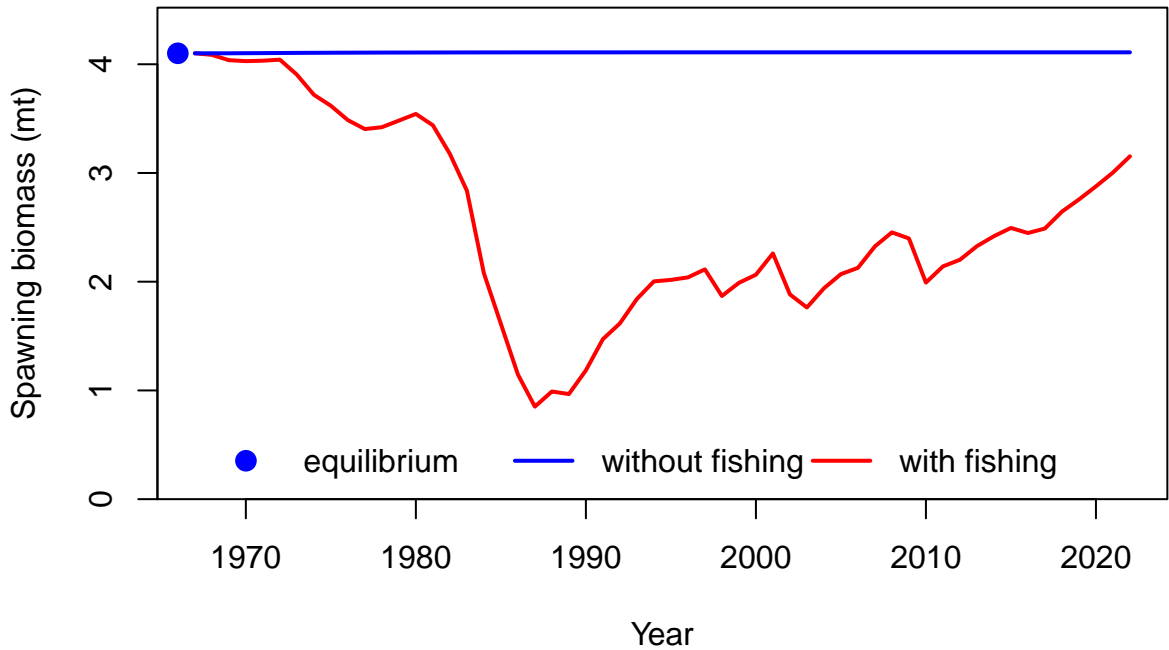


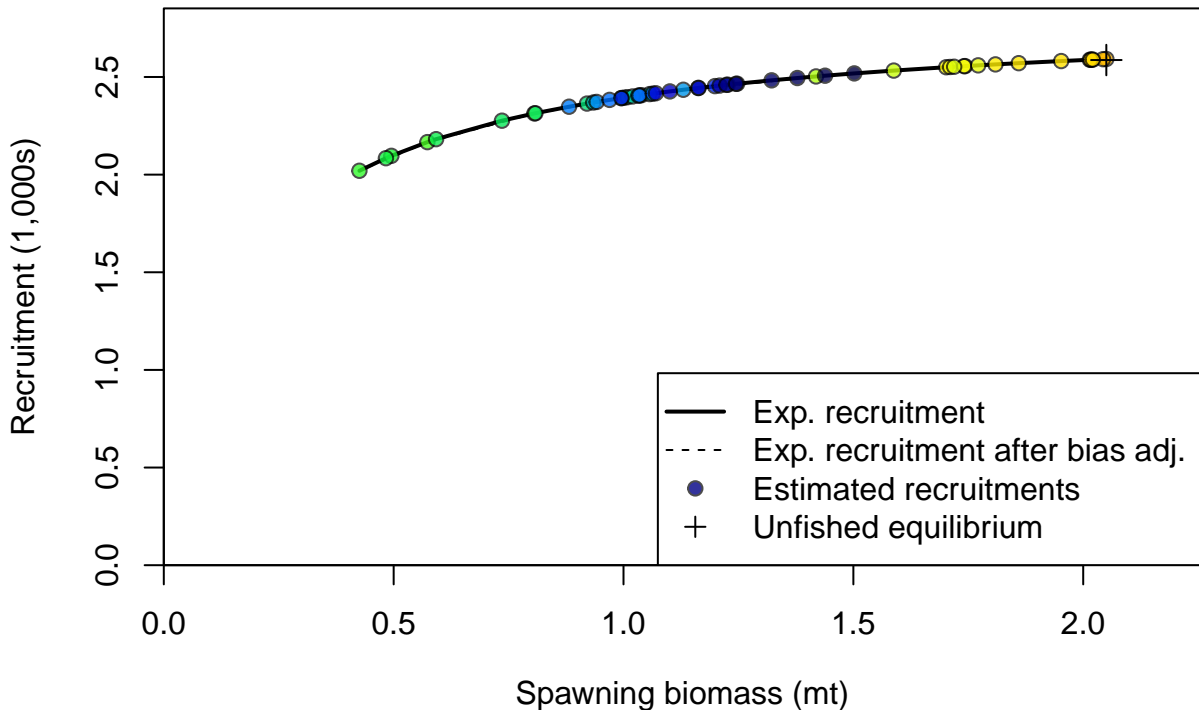
Age-0 recruits (1,000s)

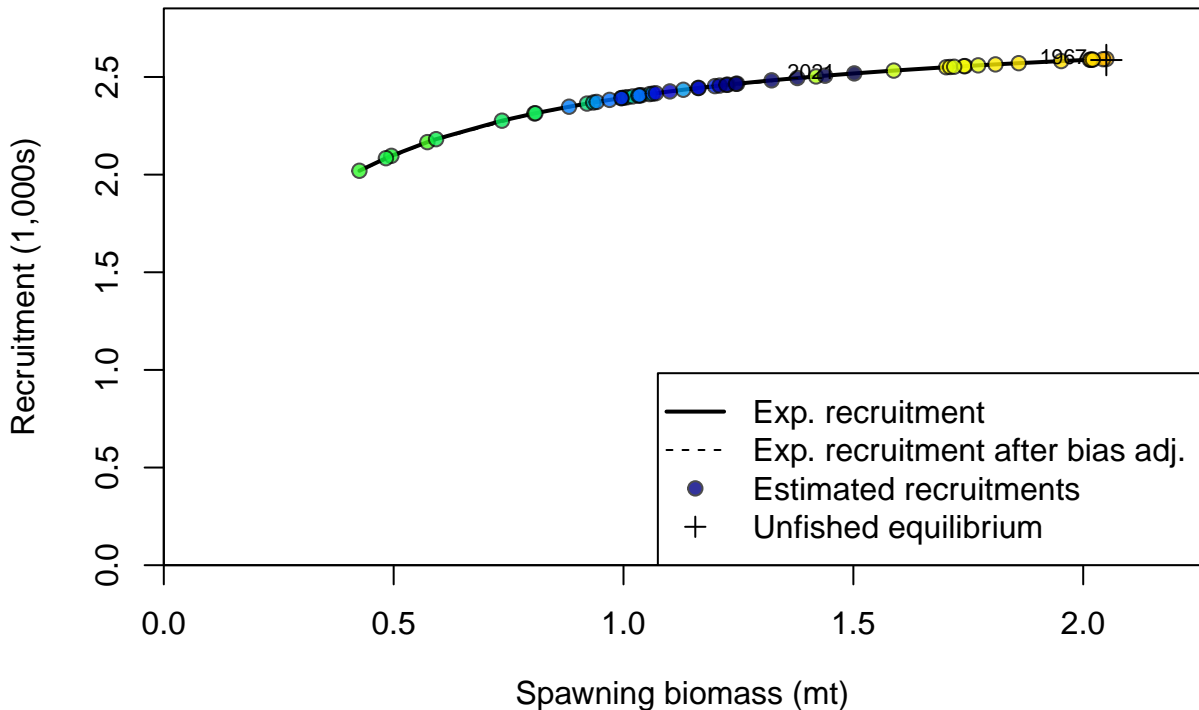


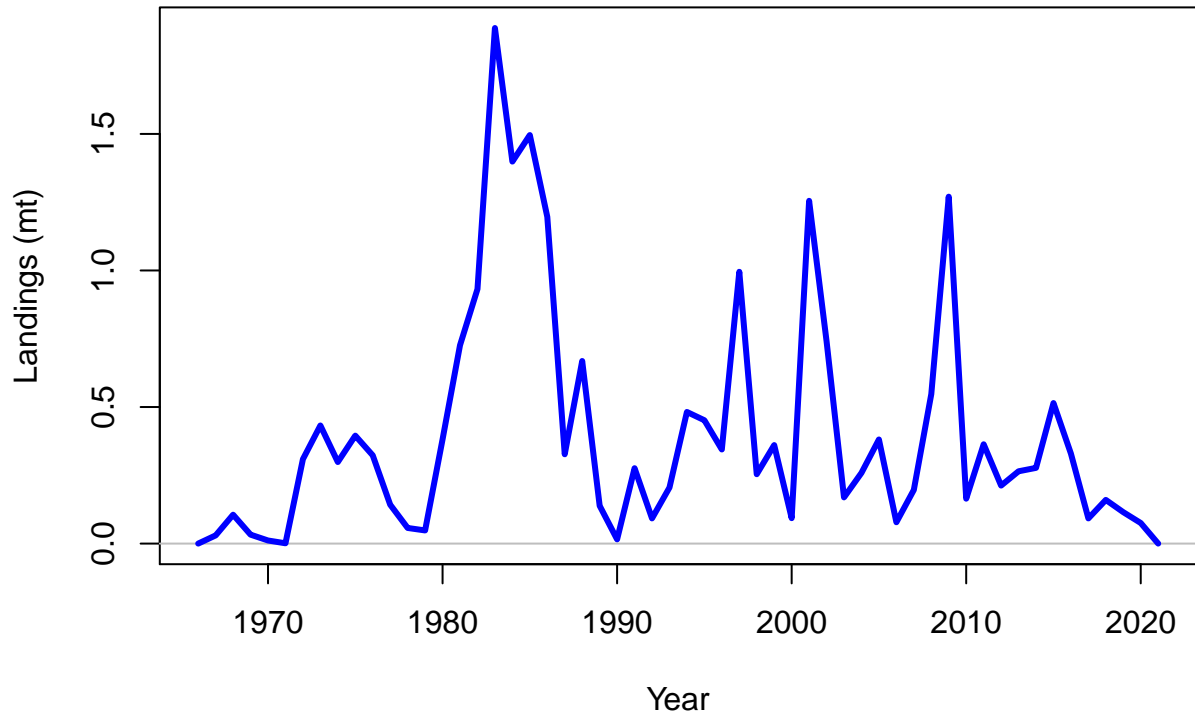
Summary Fishing Mortality

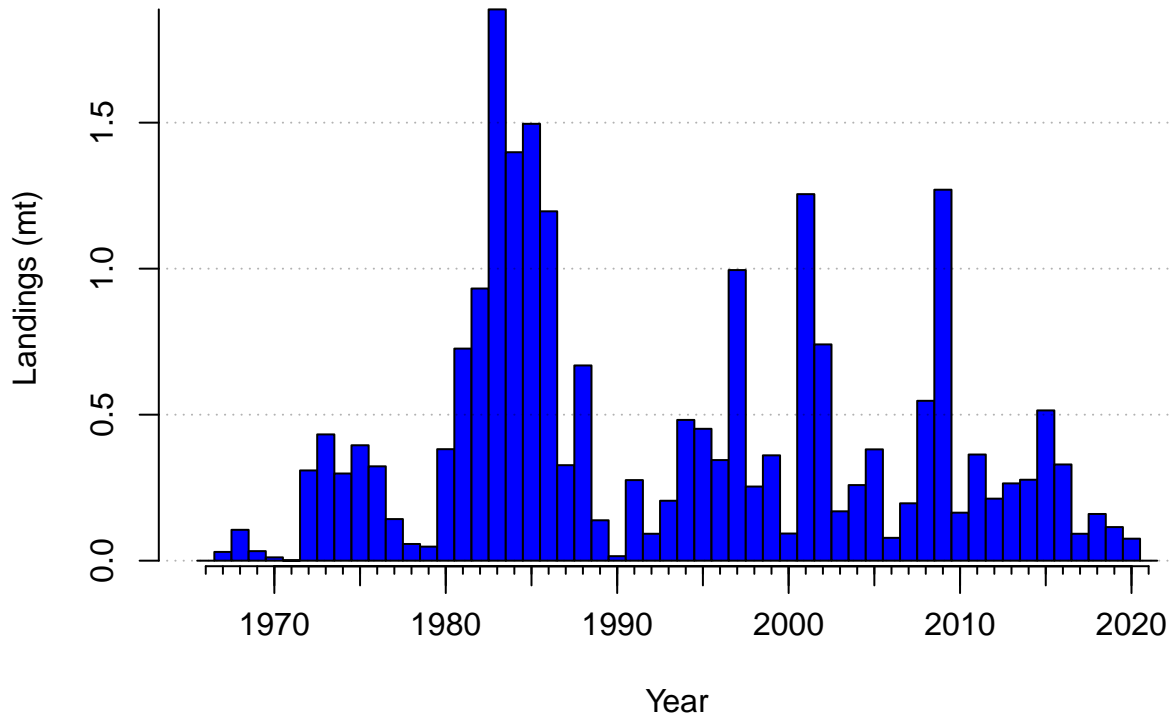












Observed and expected Landings (mt)

FISHERY
FISHERY obs.

1.5
1.0
0.5
0.0

1970

1980

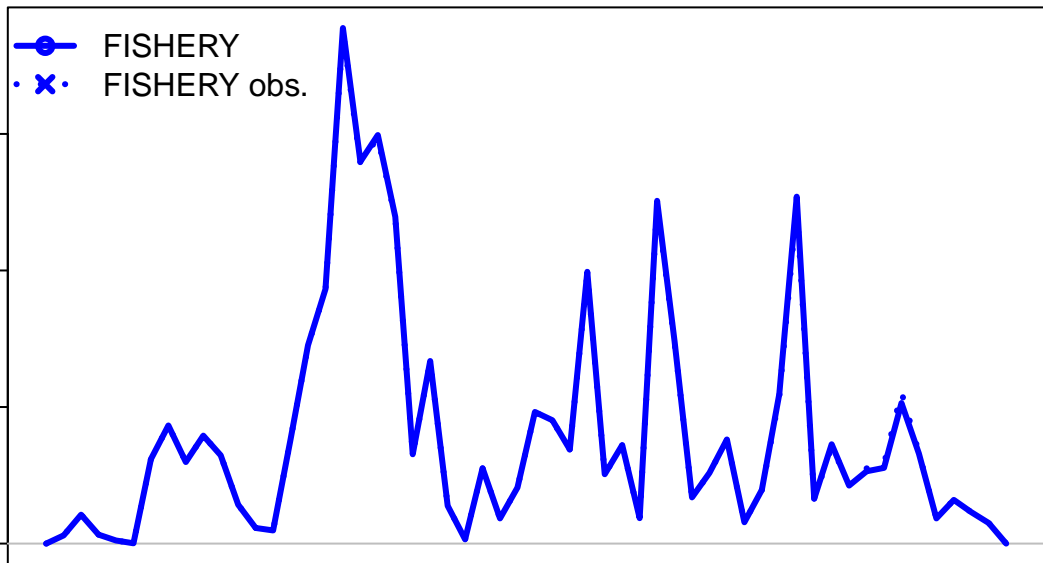
1990

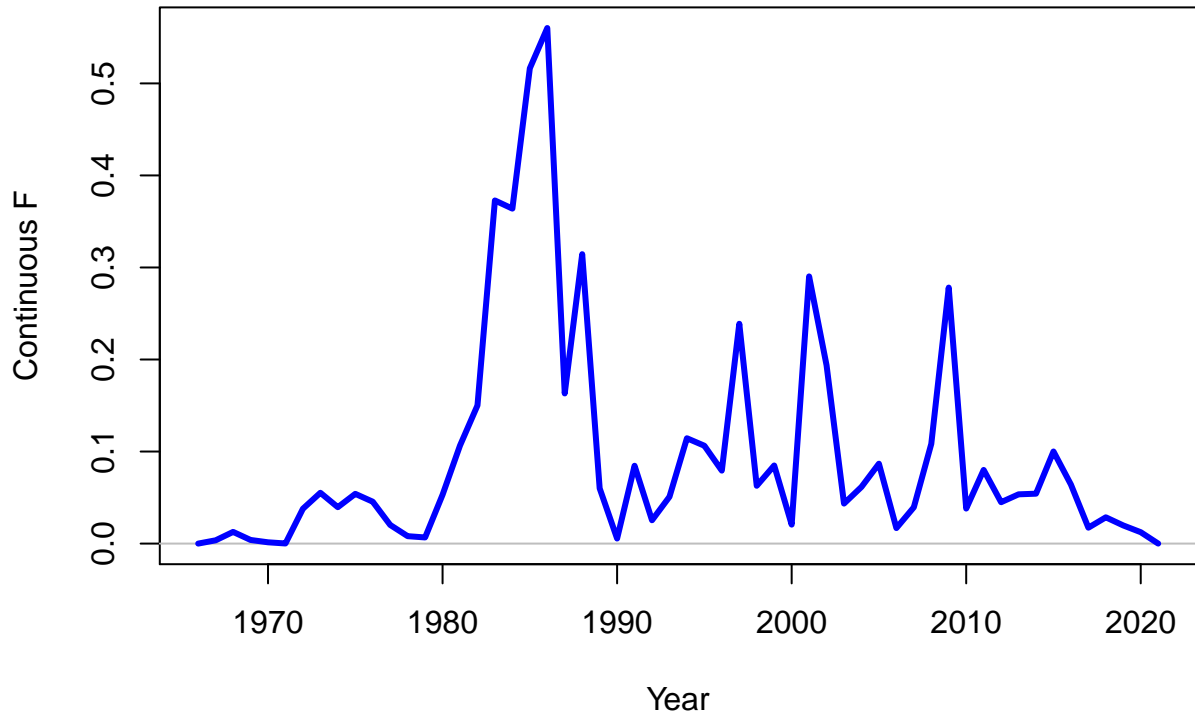
2000

2010

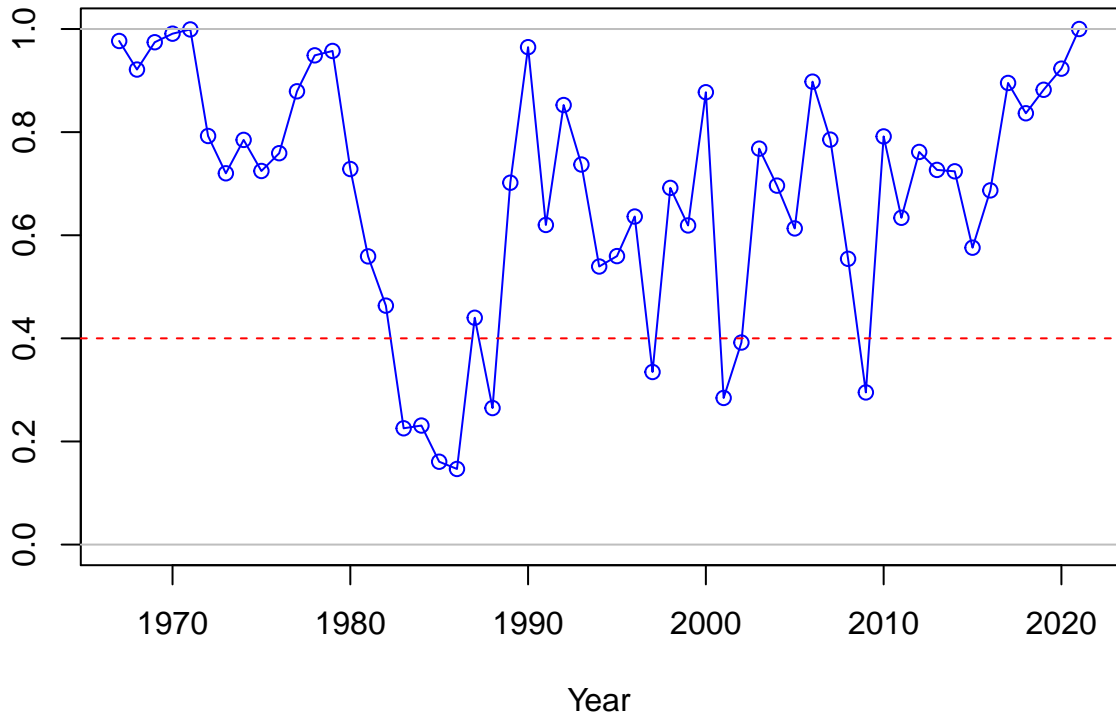
2020

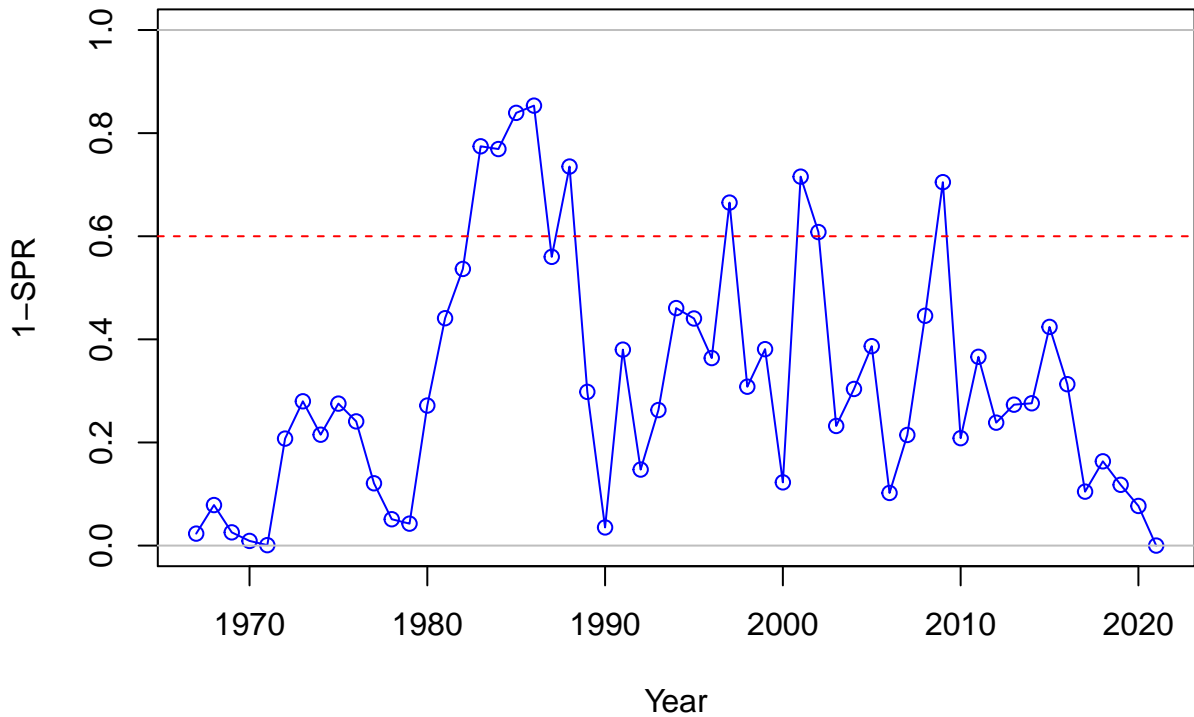
Year



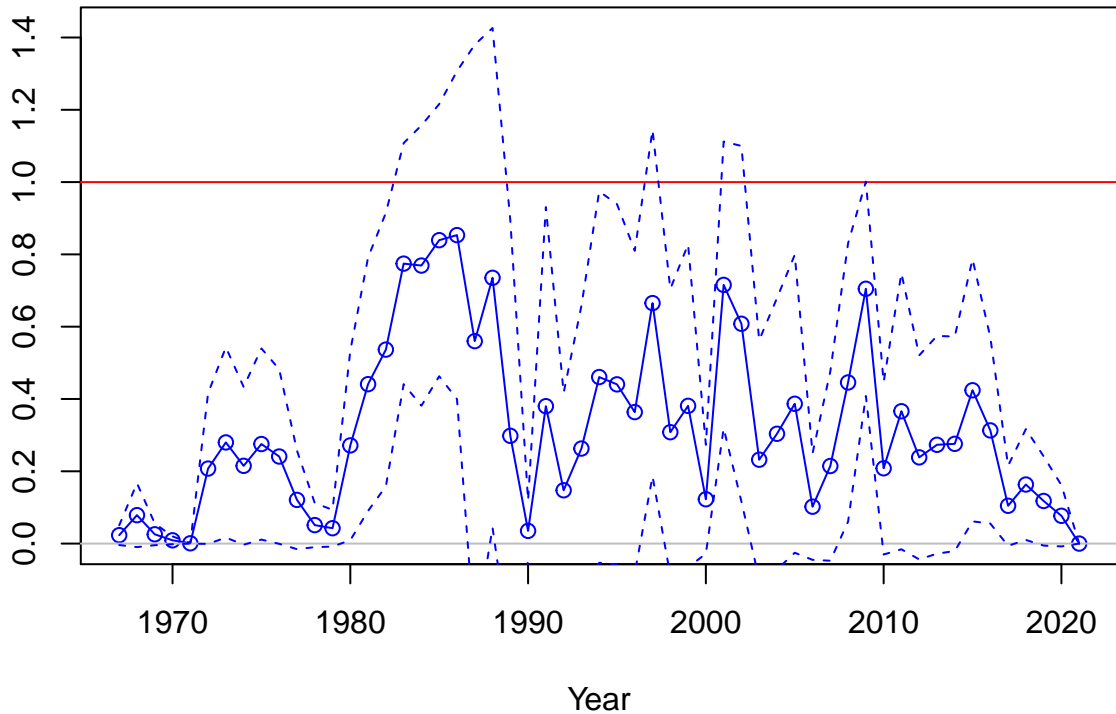


SPR

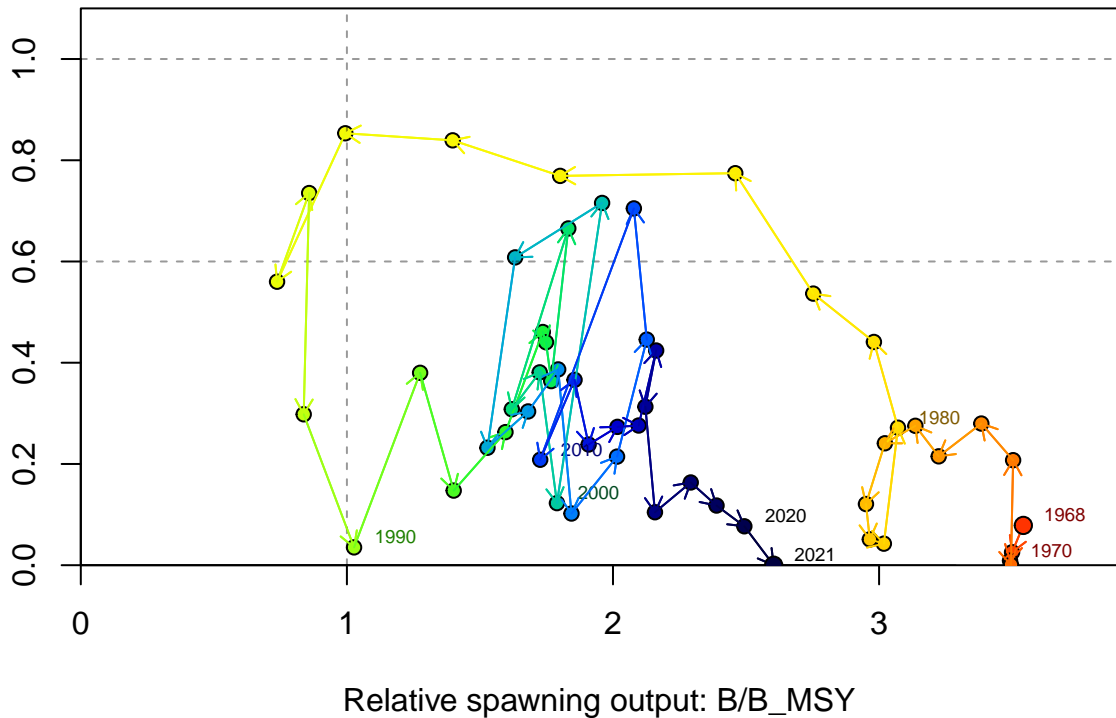




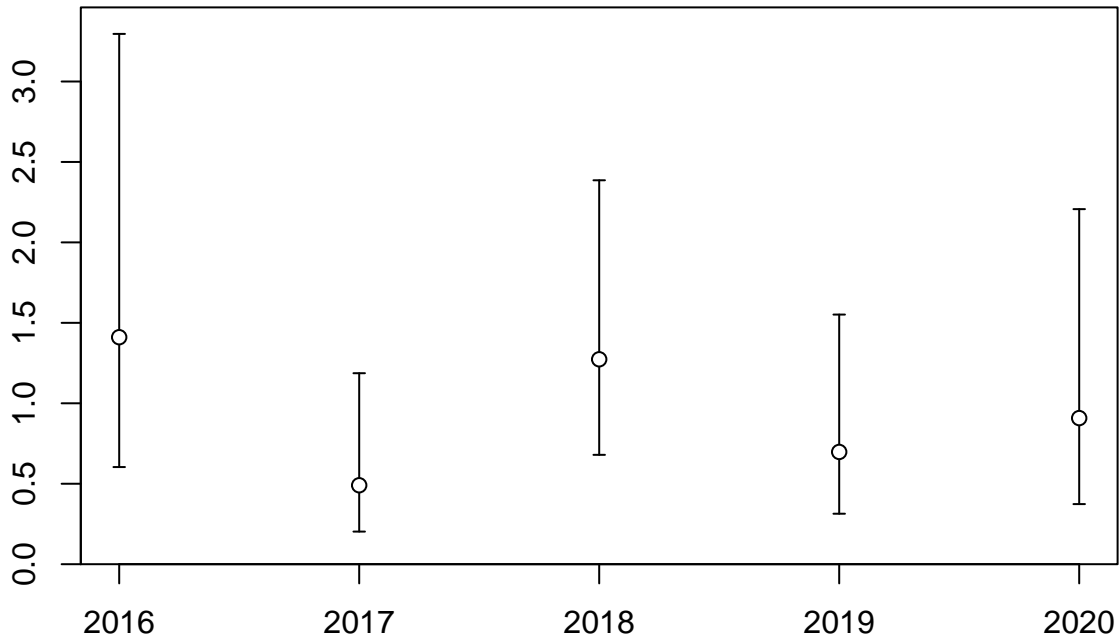
Fishing intensity: 1-SPR



Fishing intensity: 1-SPR

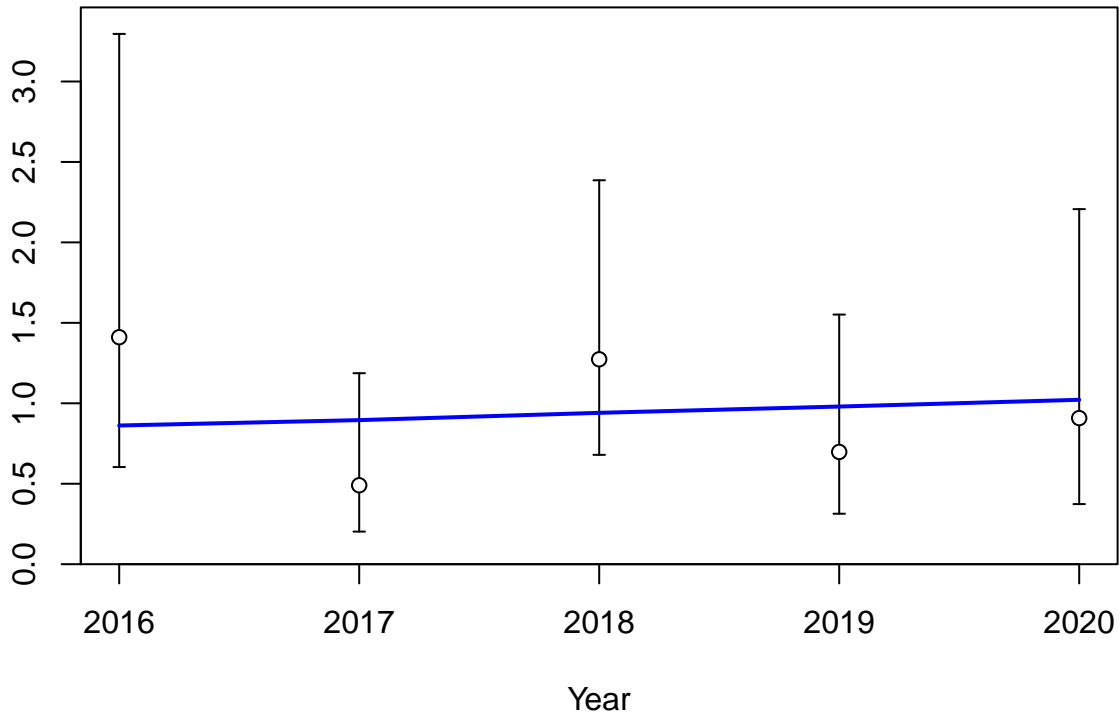


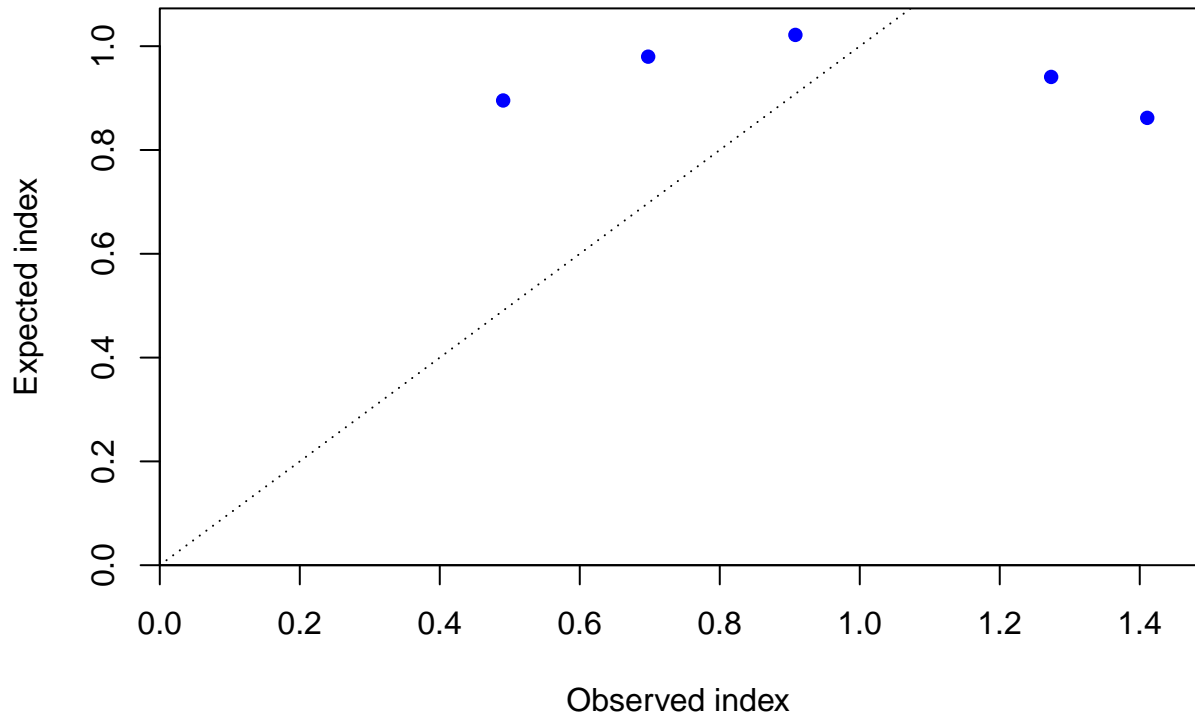
Index

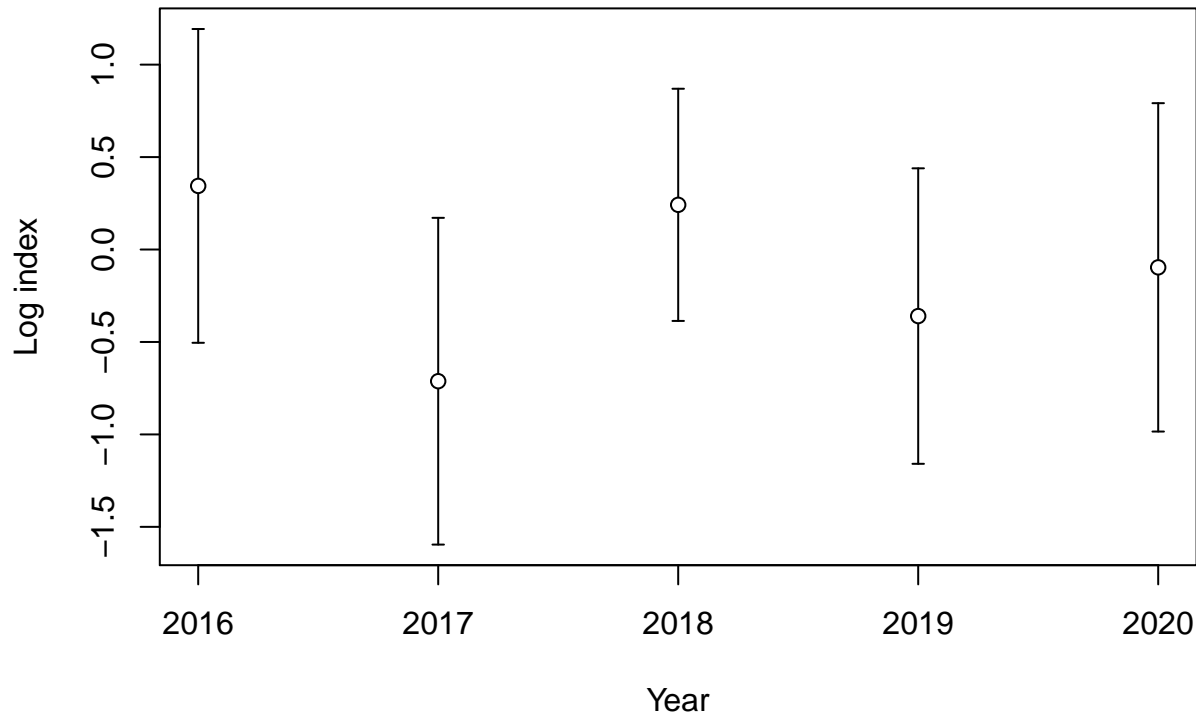


Year

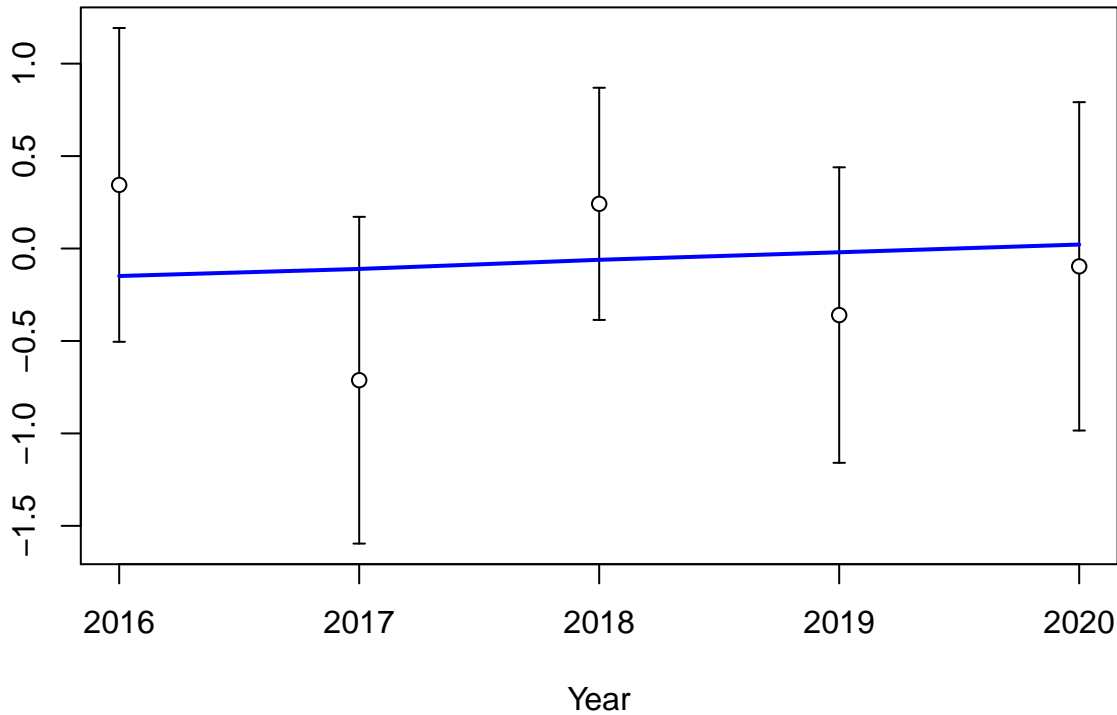
Index

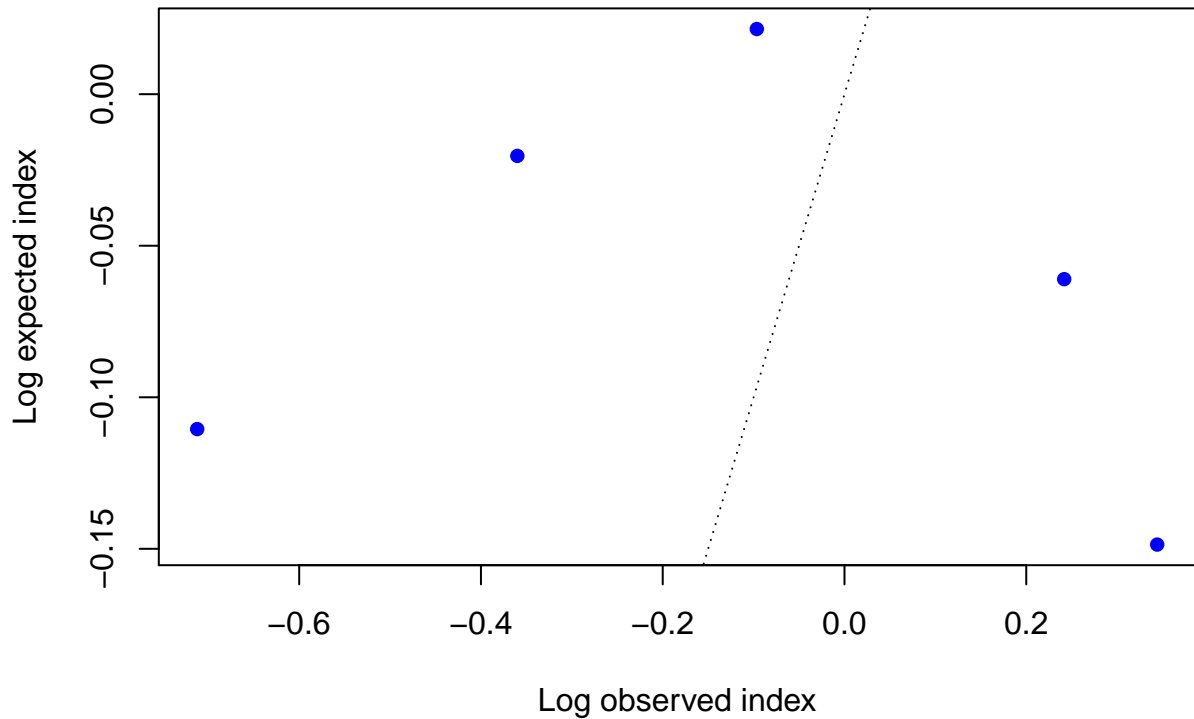


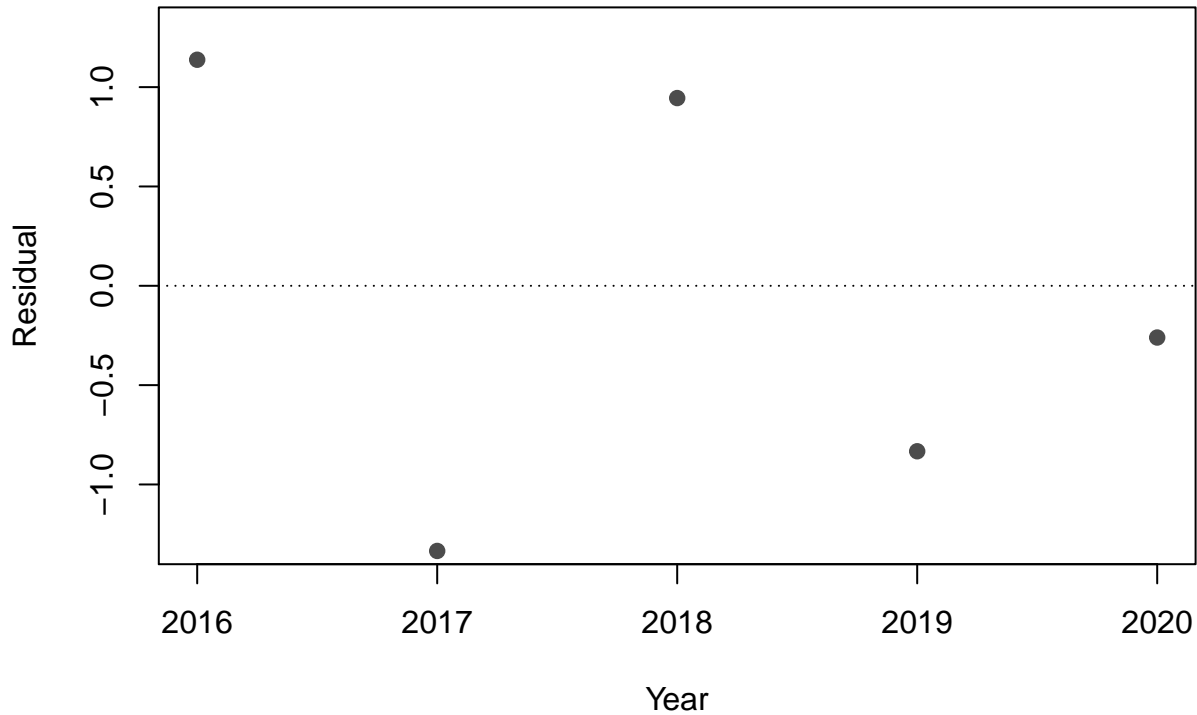




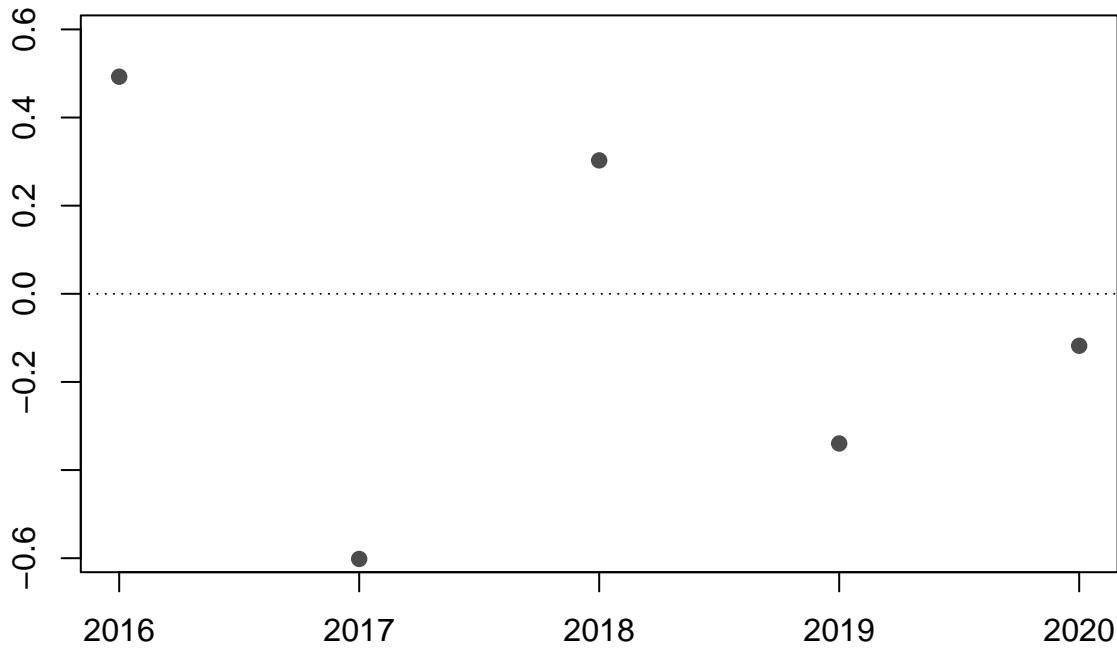
Log index



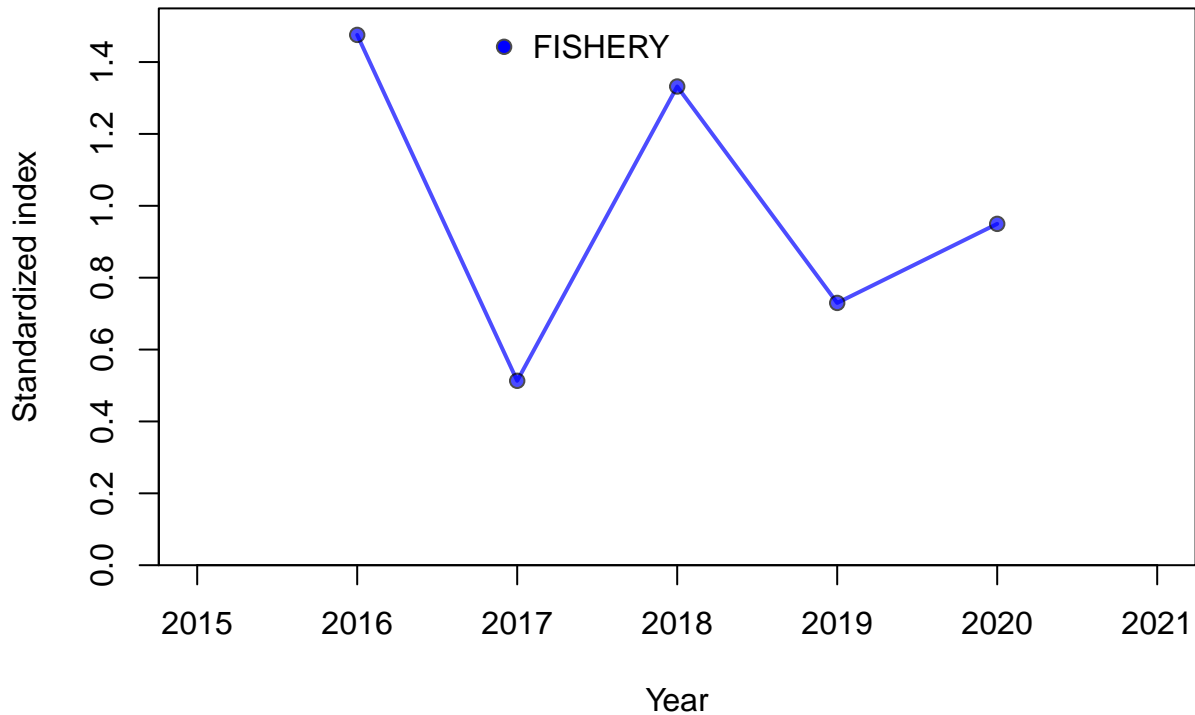


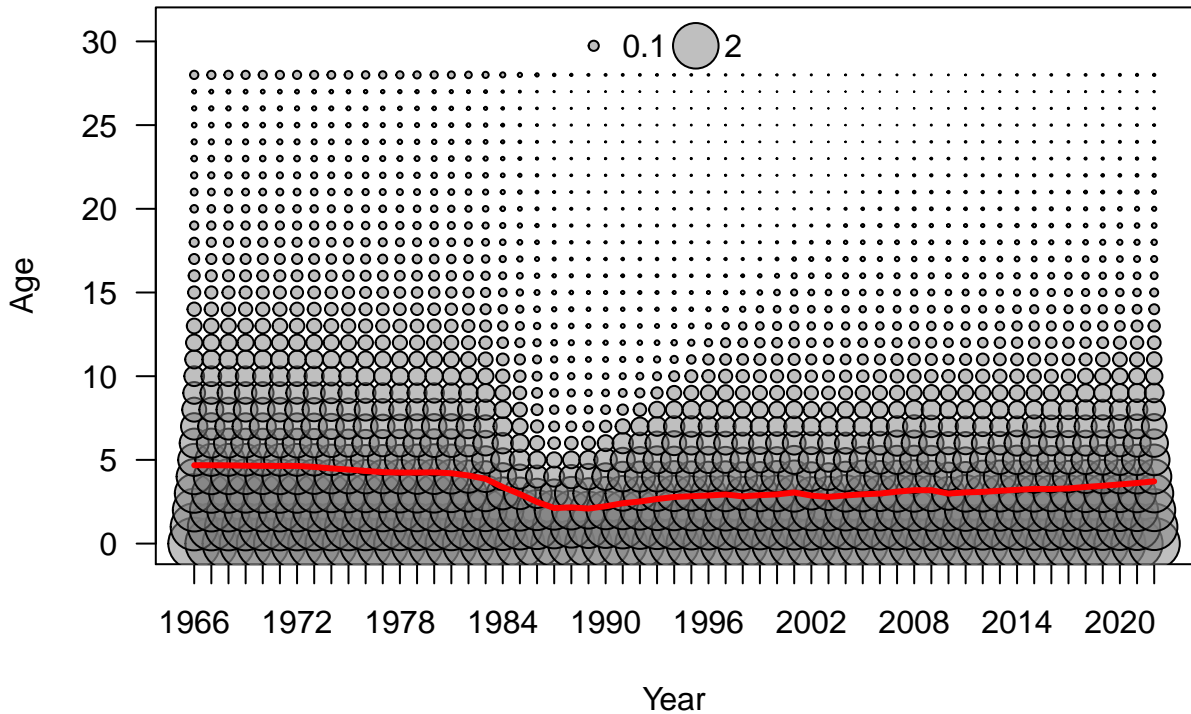


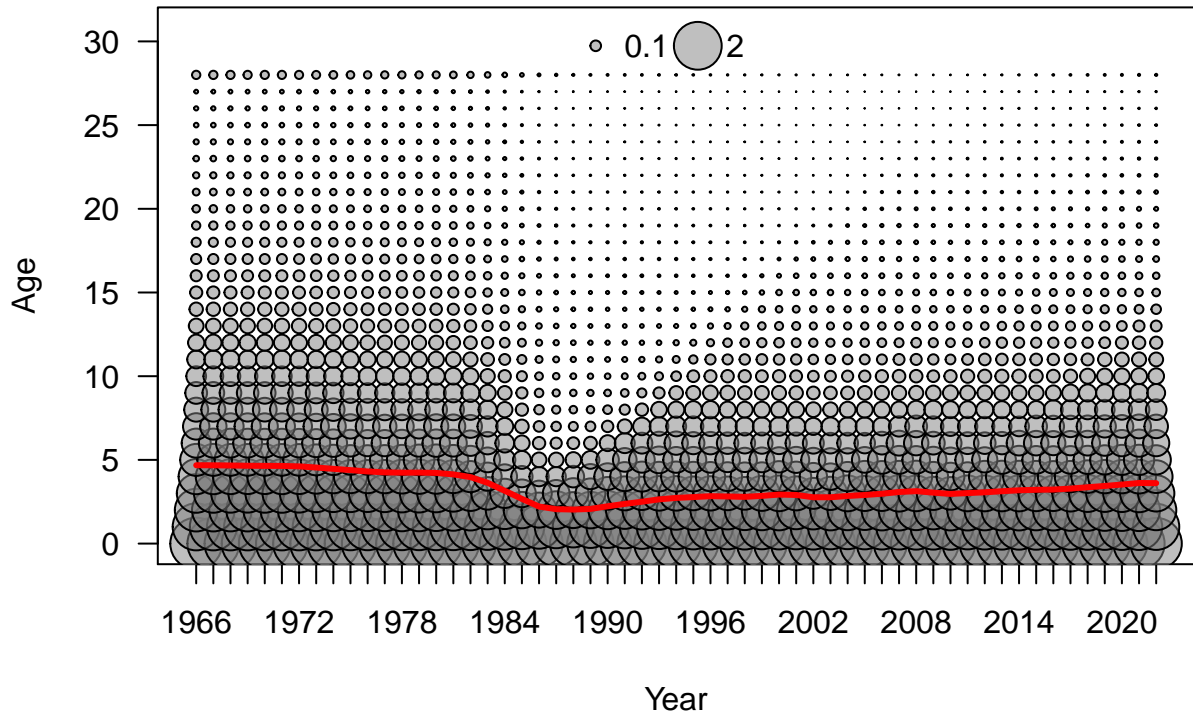
Deviation

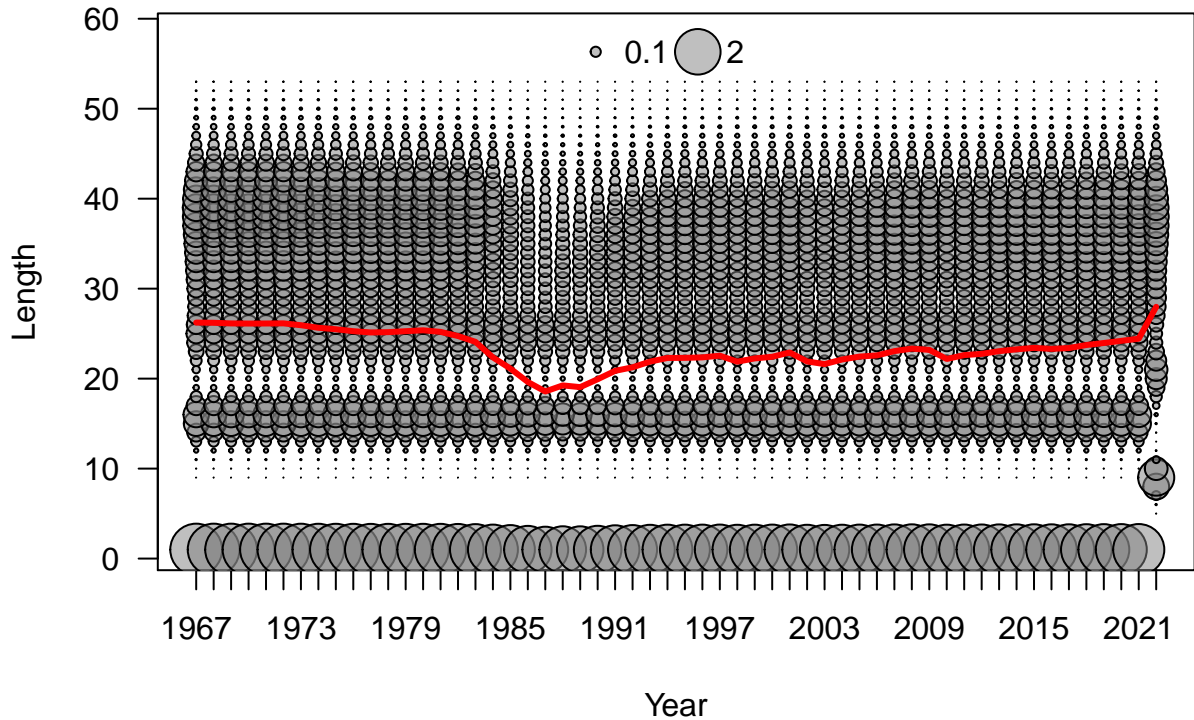


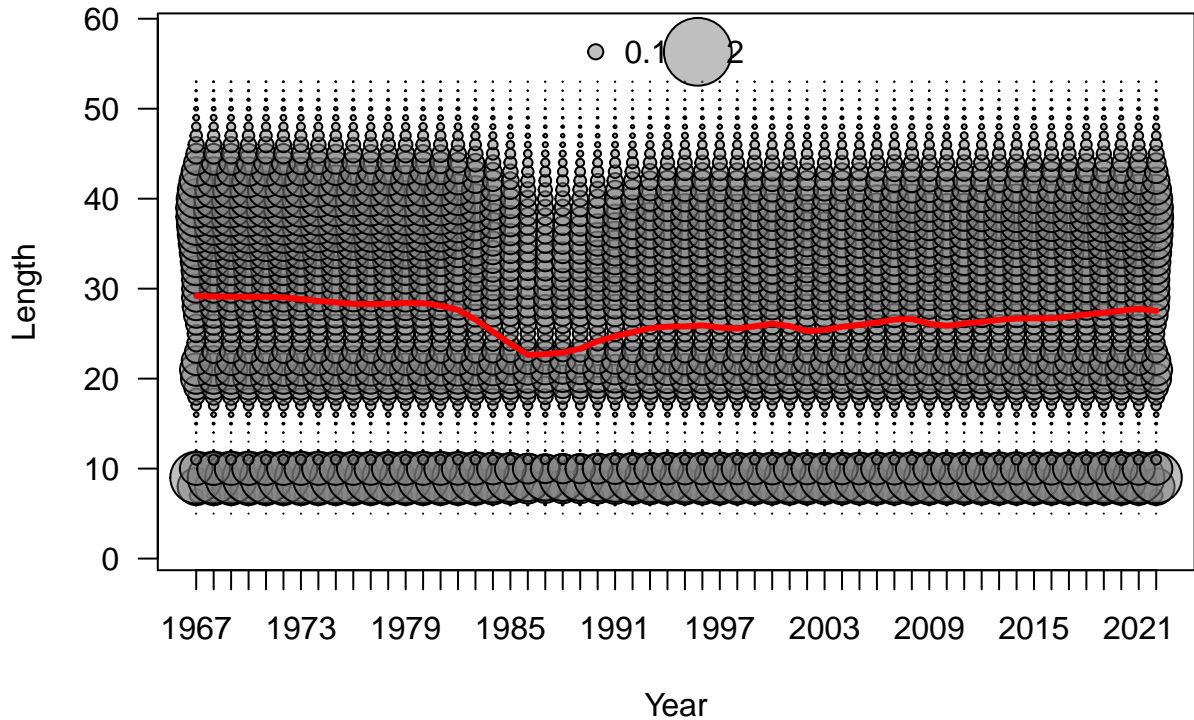
Year

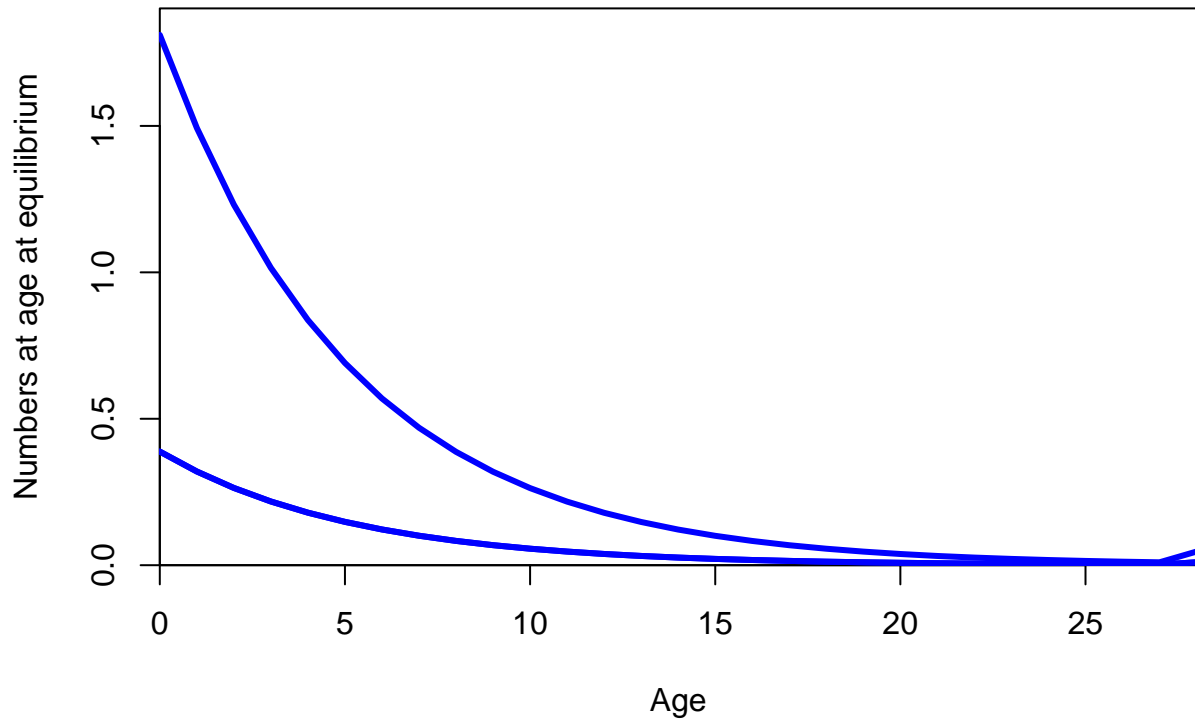


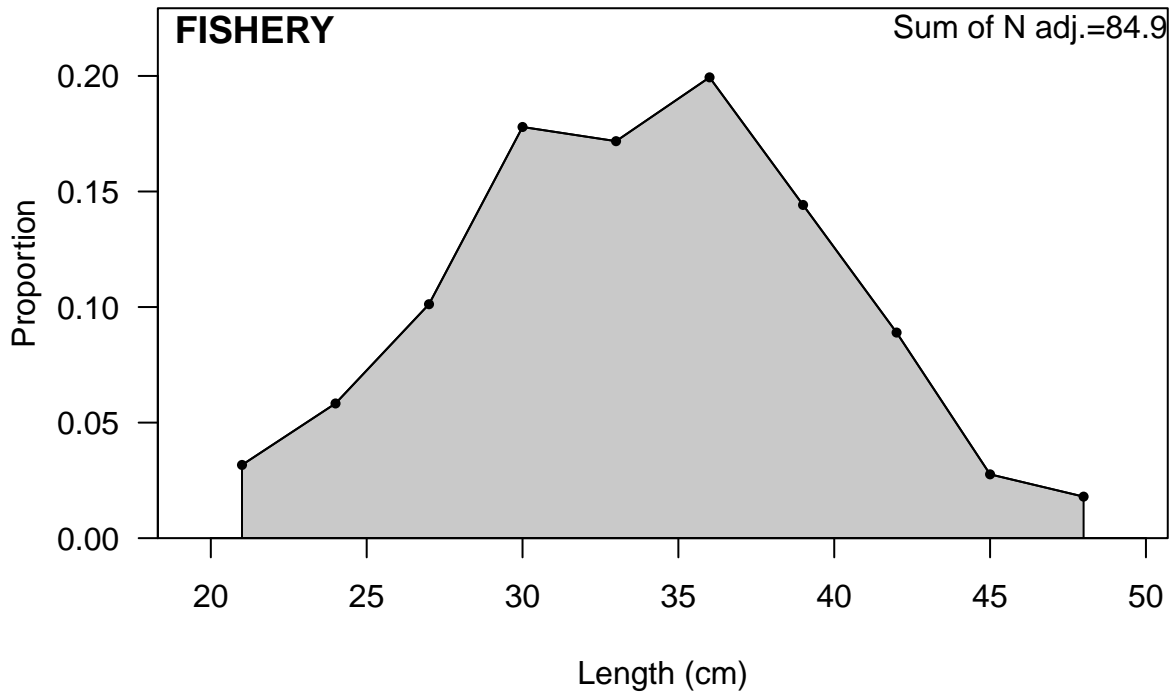


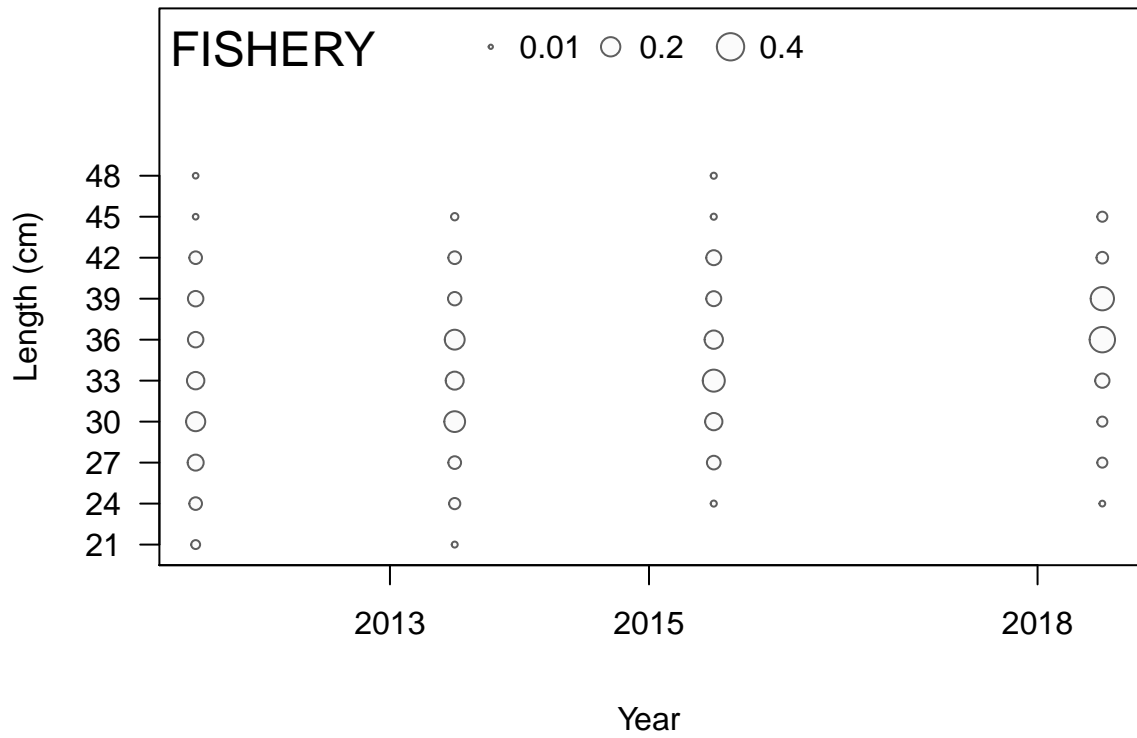




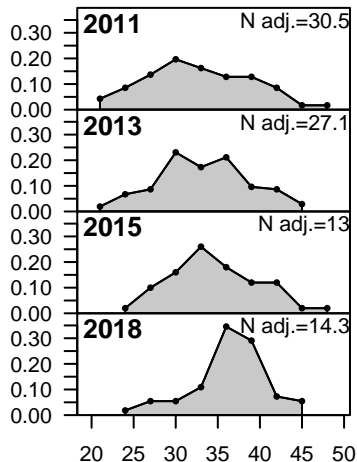




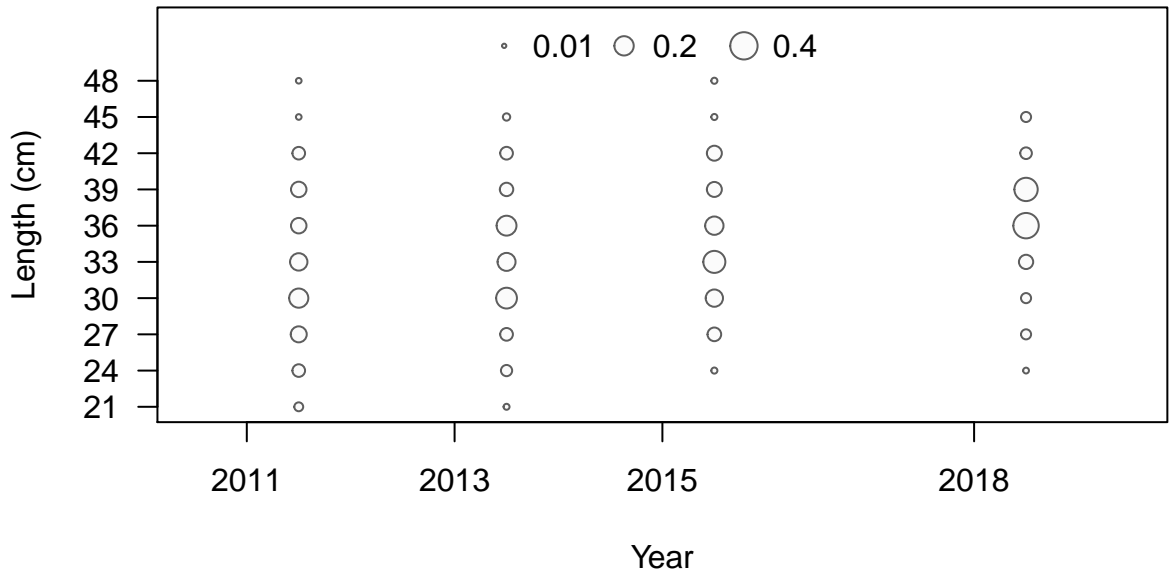




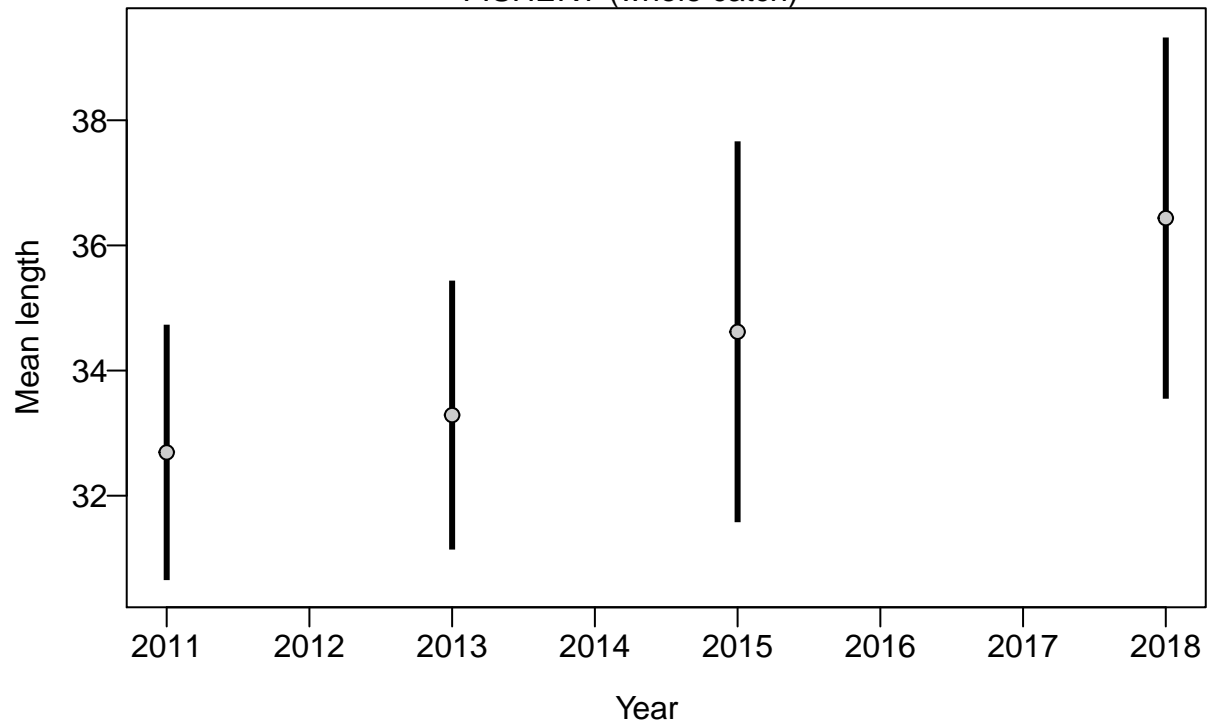
Proportion



Length (cm)

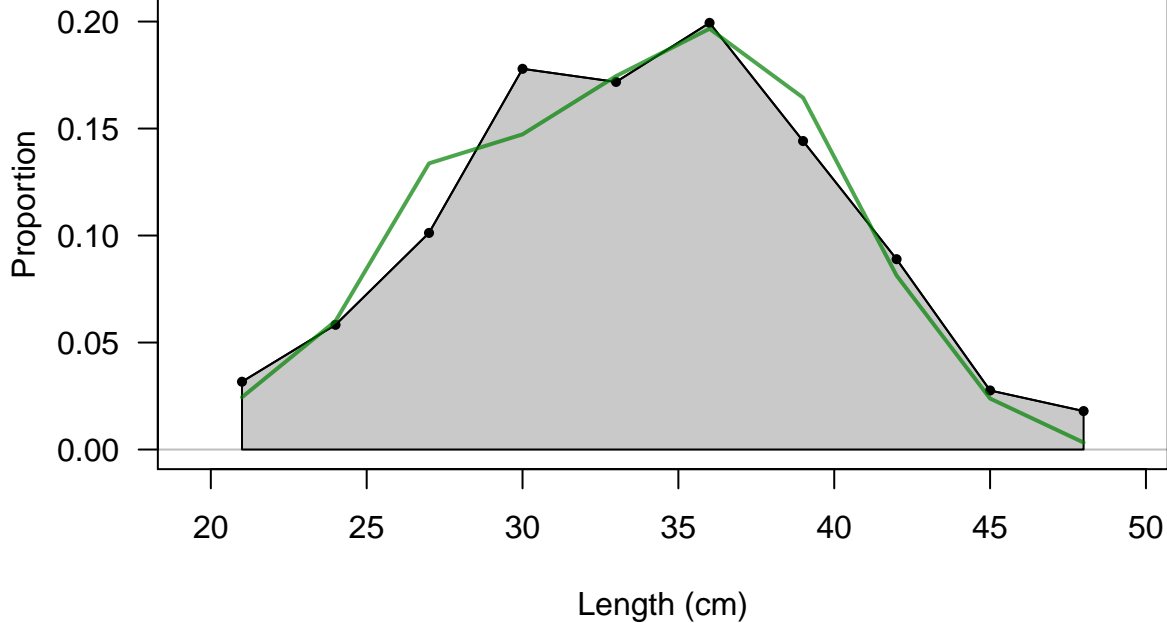


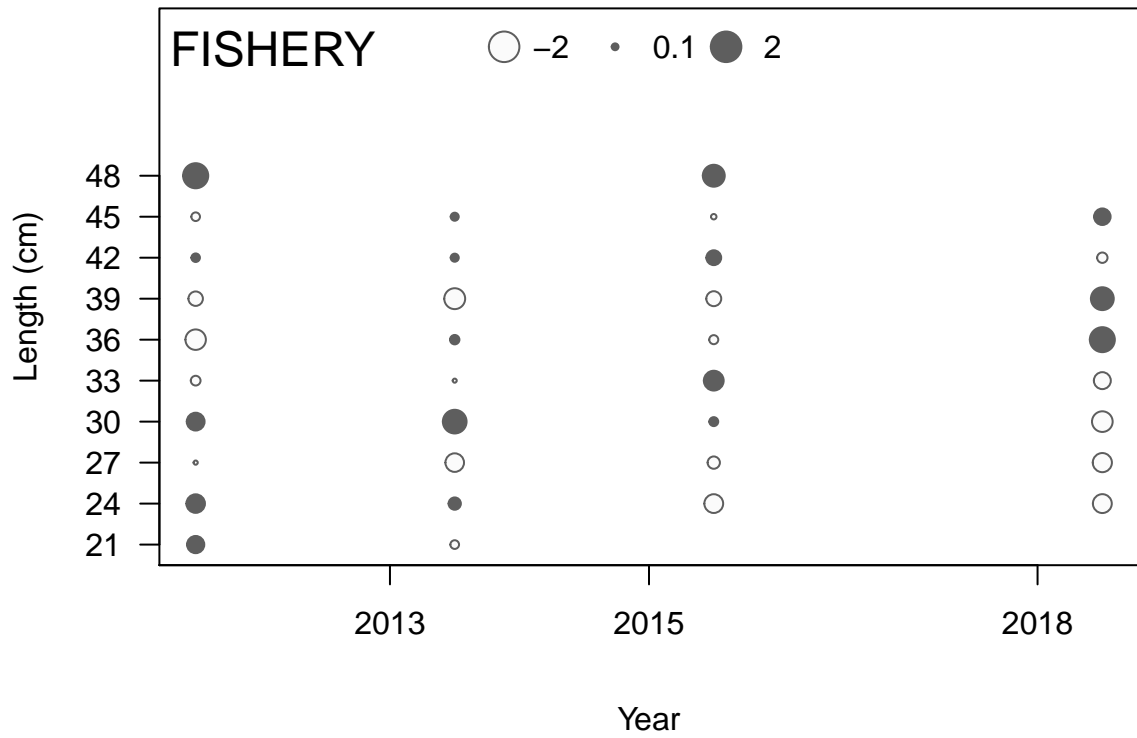
FISHERY (whole catch)



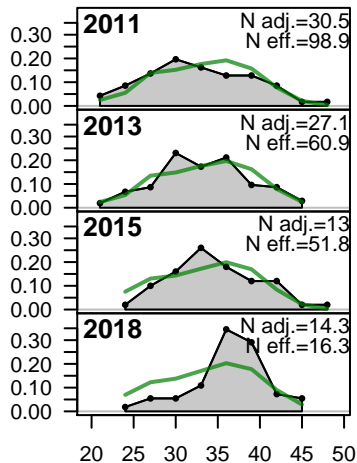
FISHERY

Sum of N adj.=84.9
Sum of N eff.=227.9

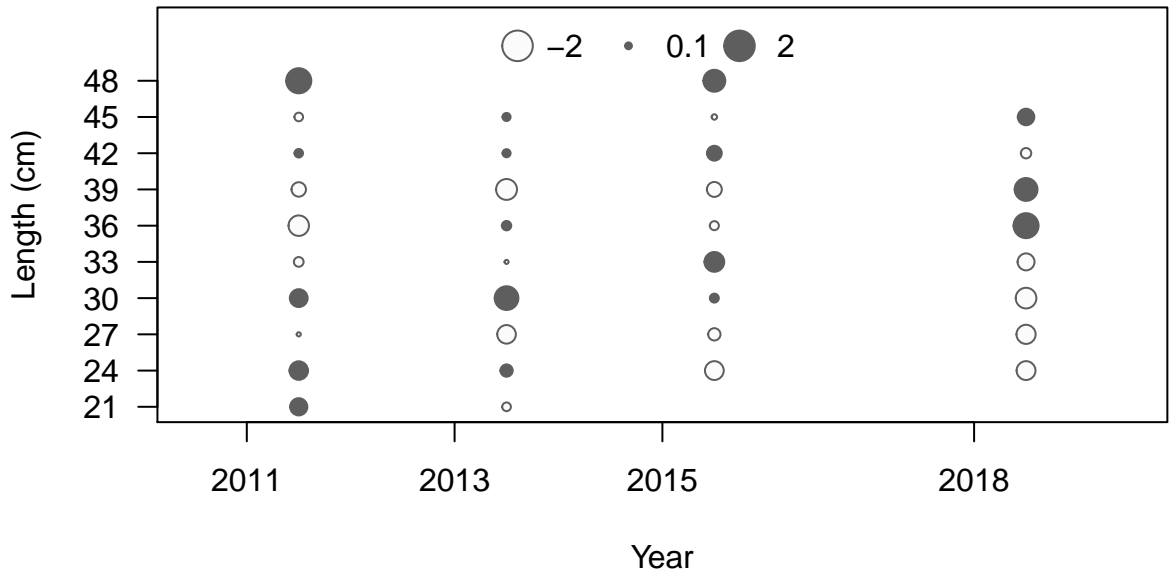




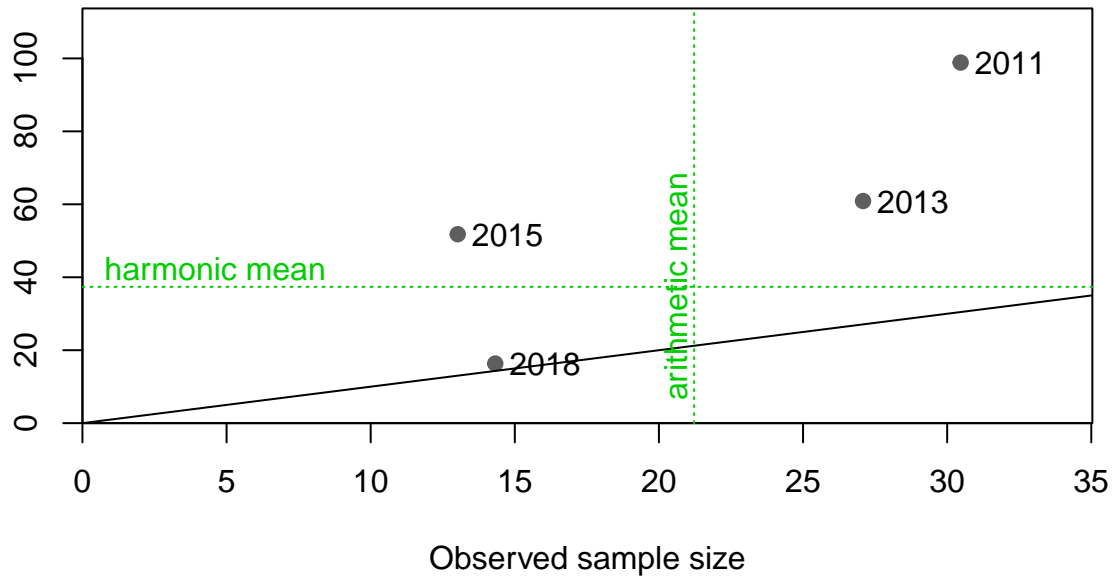
Proportion



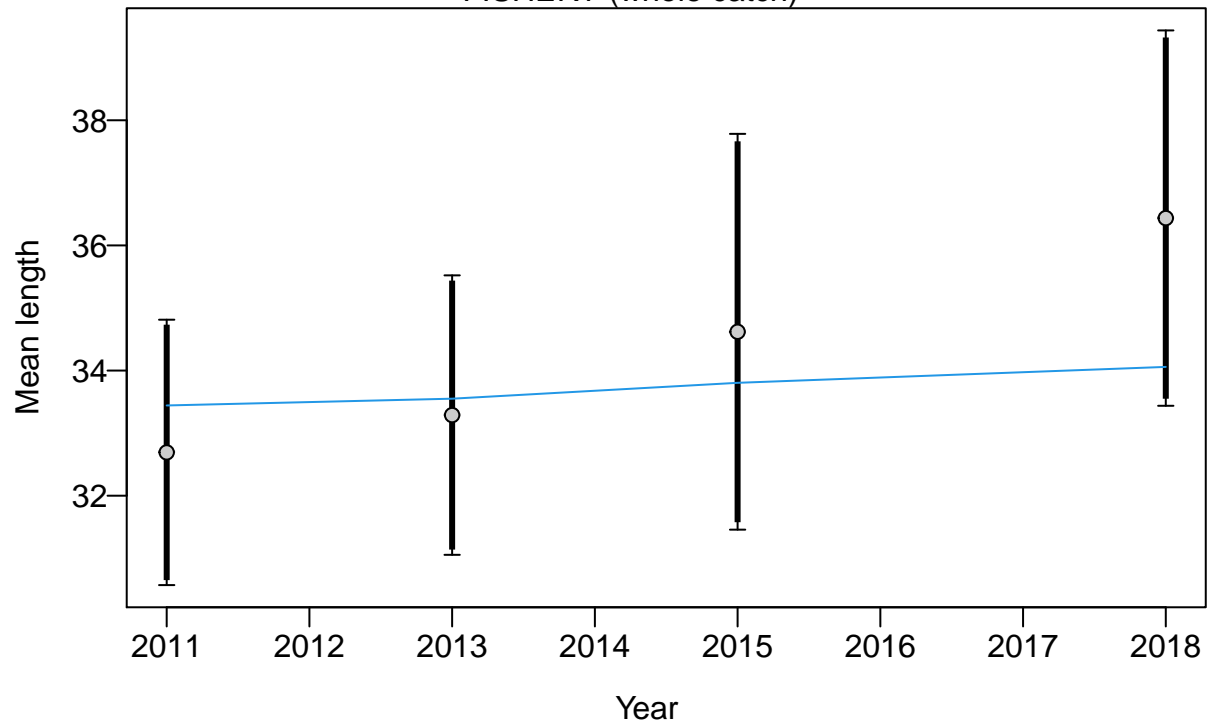
Length (cm)

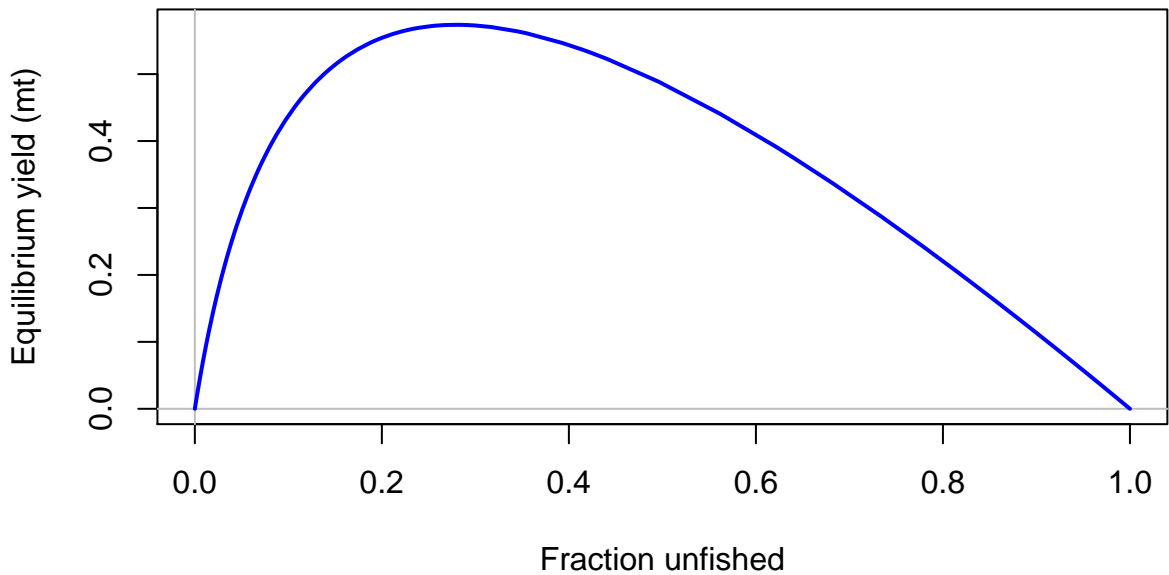


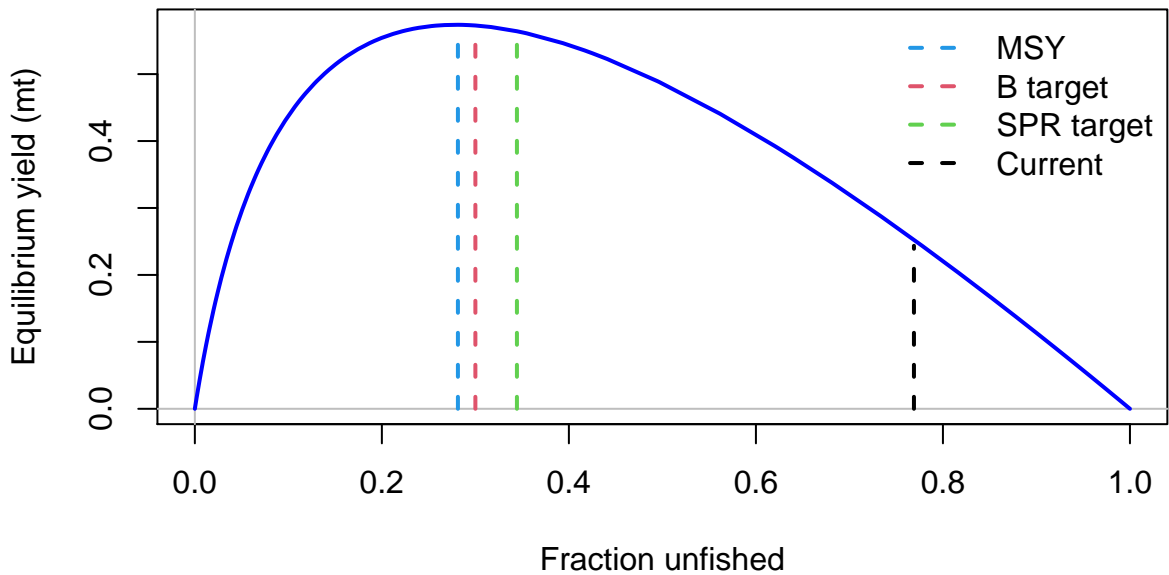
Effective sample size

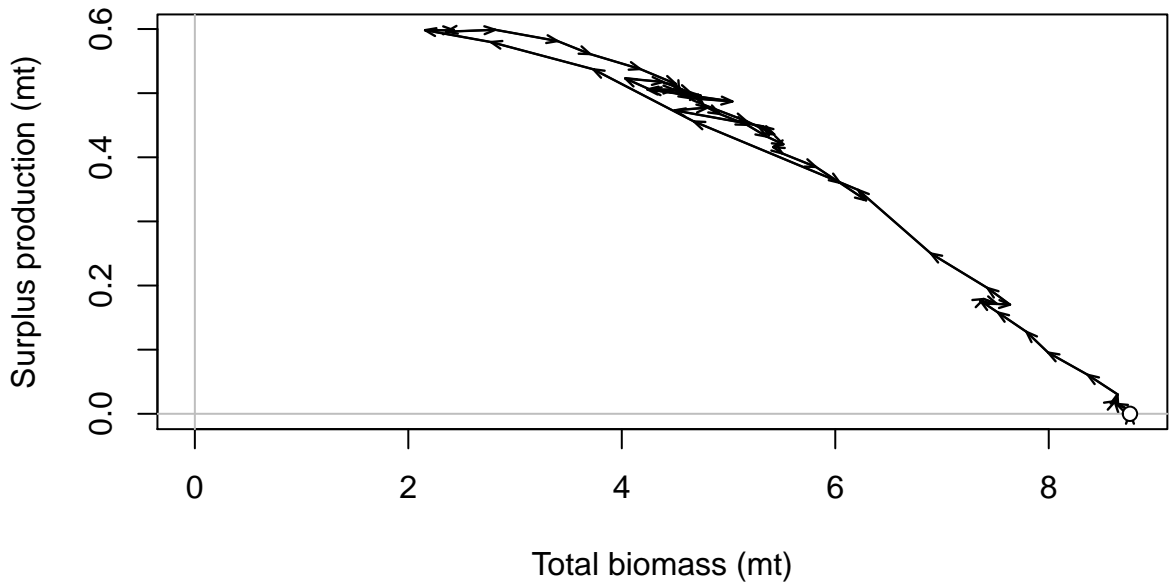


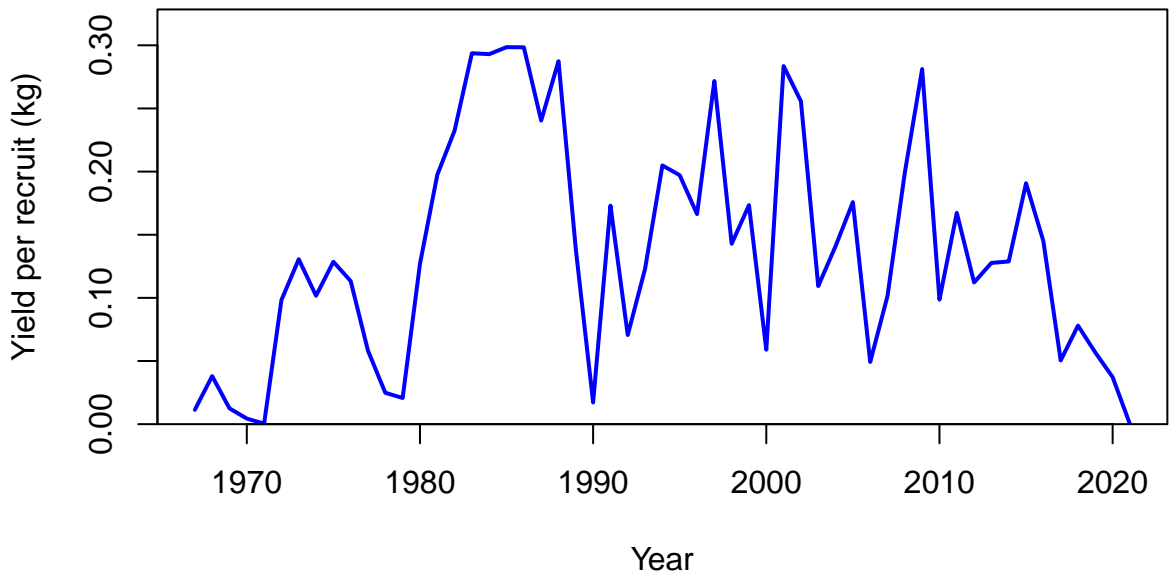
FISHERY (whole catch)

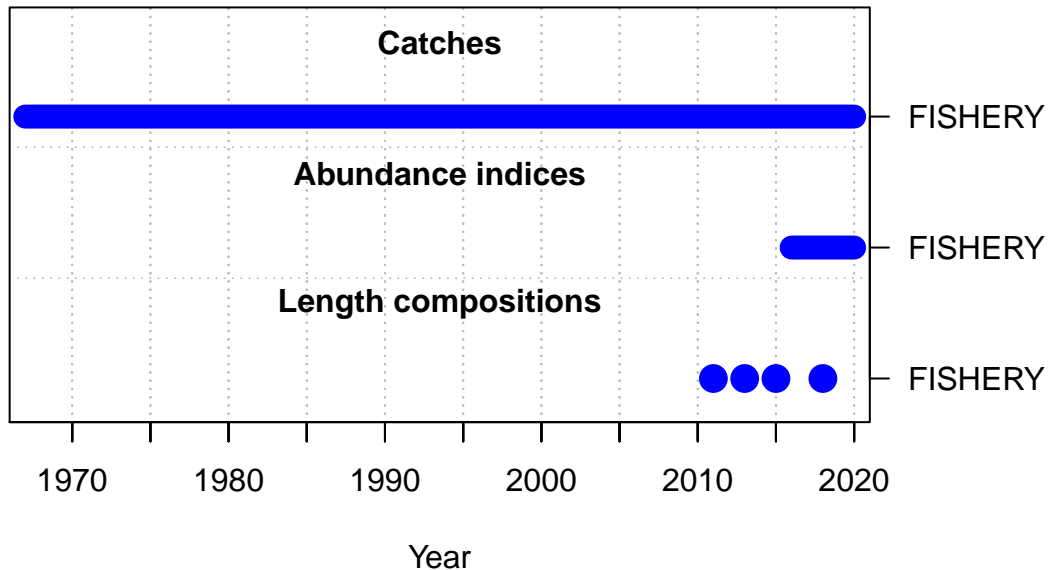


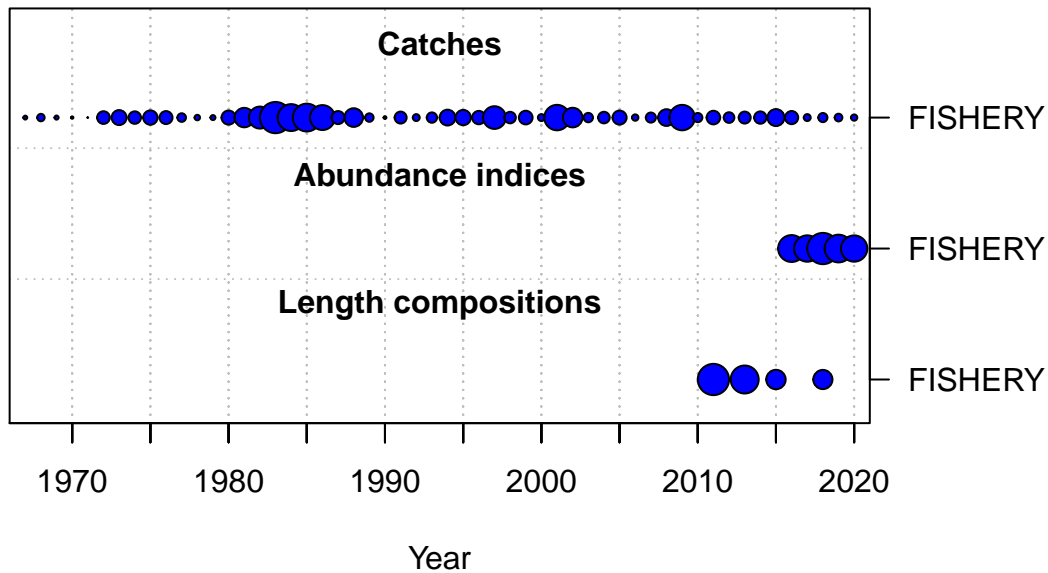




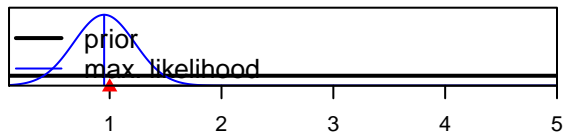




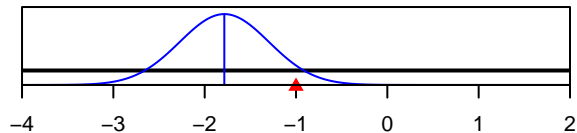




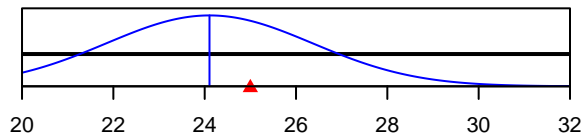
SR_LN(R0)



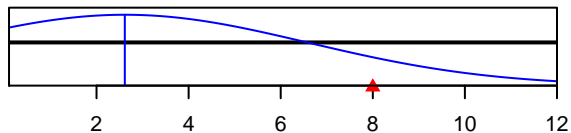
LnQ_base_FISHERY(1)



Size_inflection_FISHERY(1)



Size_95%width_FISHERY(1)



Parameter value