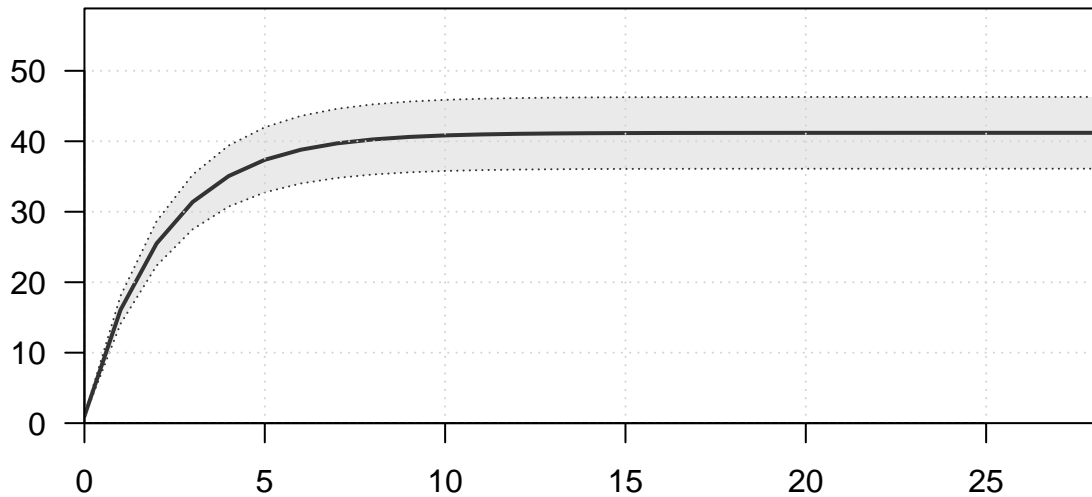


Plots created using the 'r4ss' package in R
Stock Synthesis version: 3.30.19.0
StartTime: Sun Feb 19 15:49:04 2023
Data_File: data.ss
Control_File: control.ss

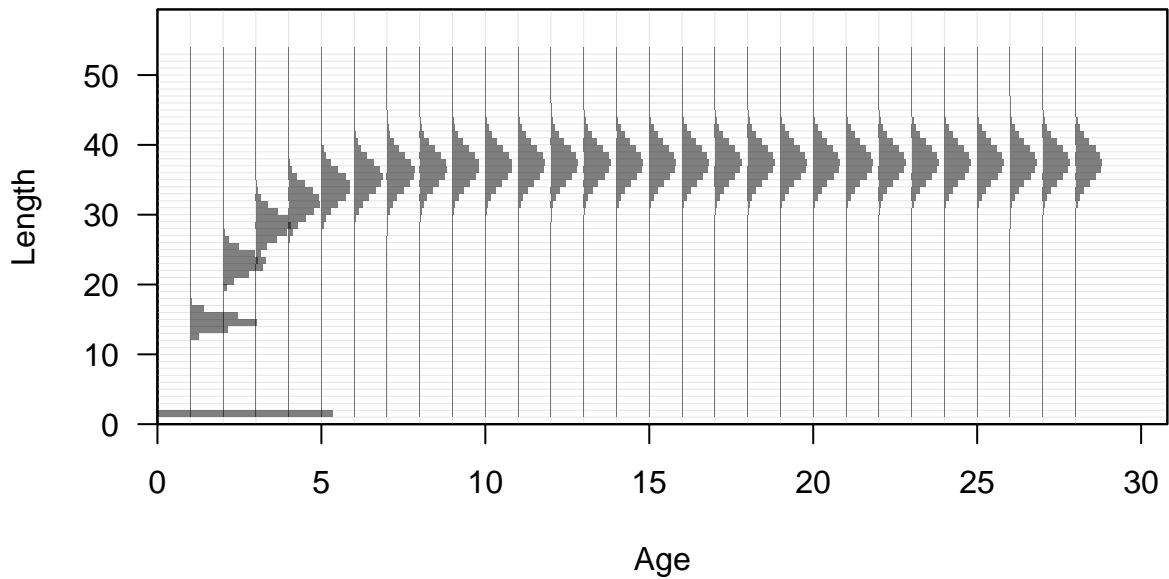
Length (cm, beginning of the year)



Age (yr)

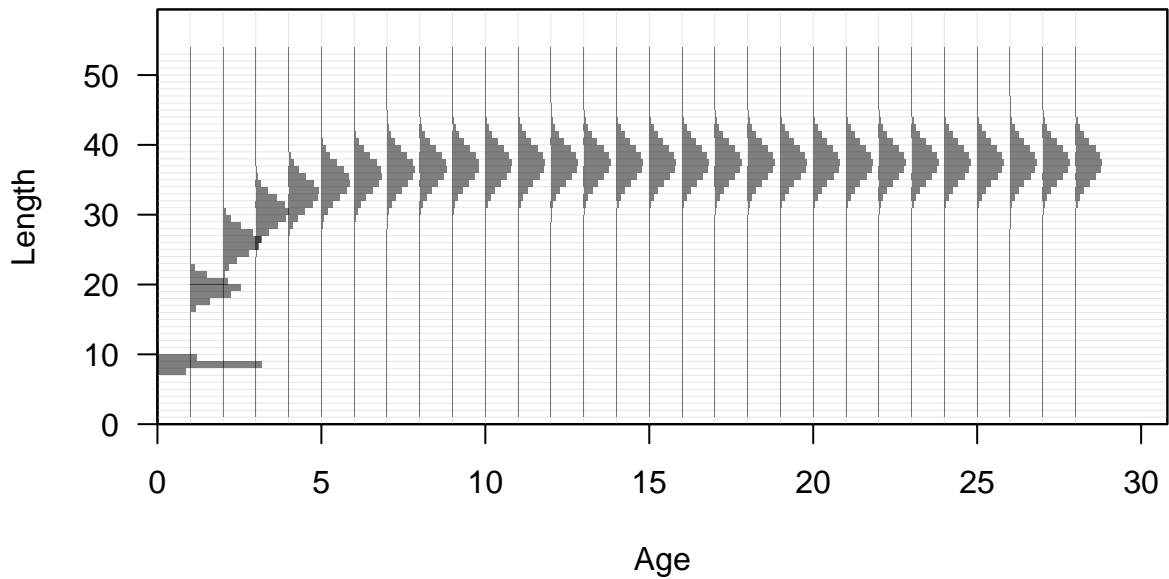








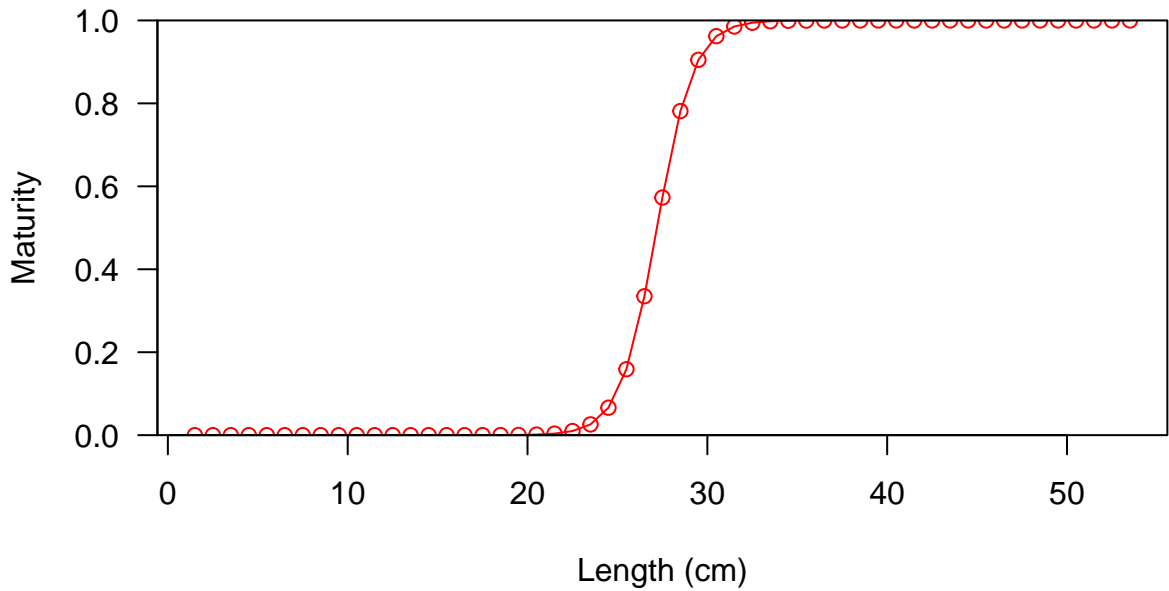












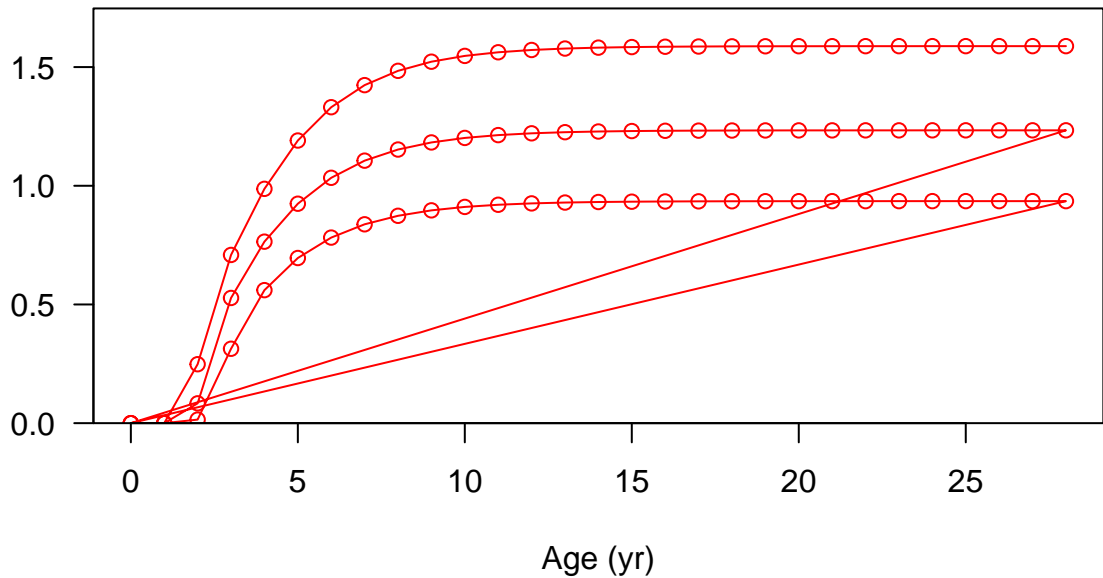




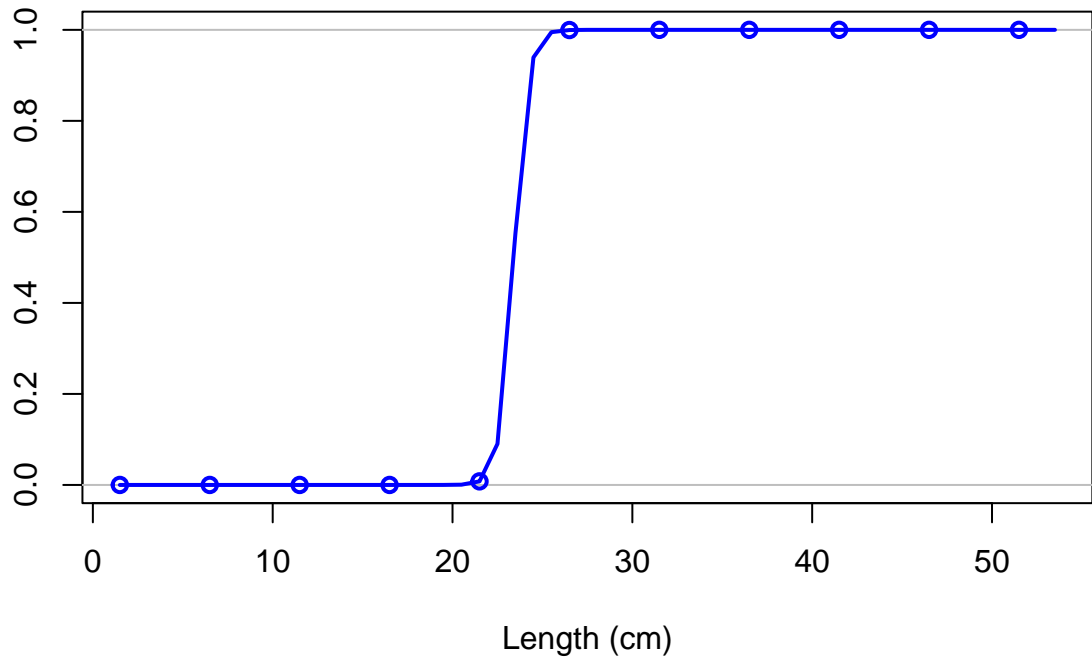




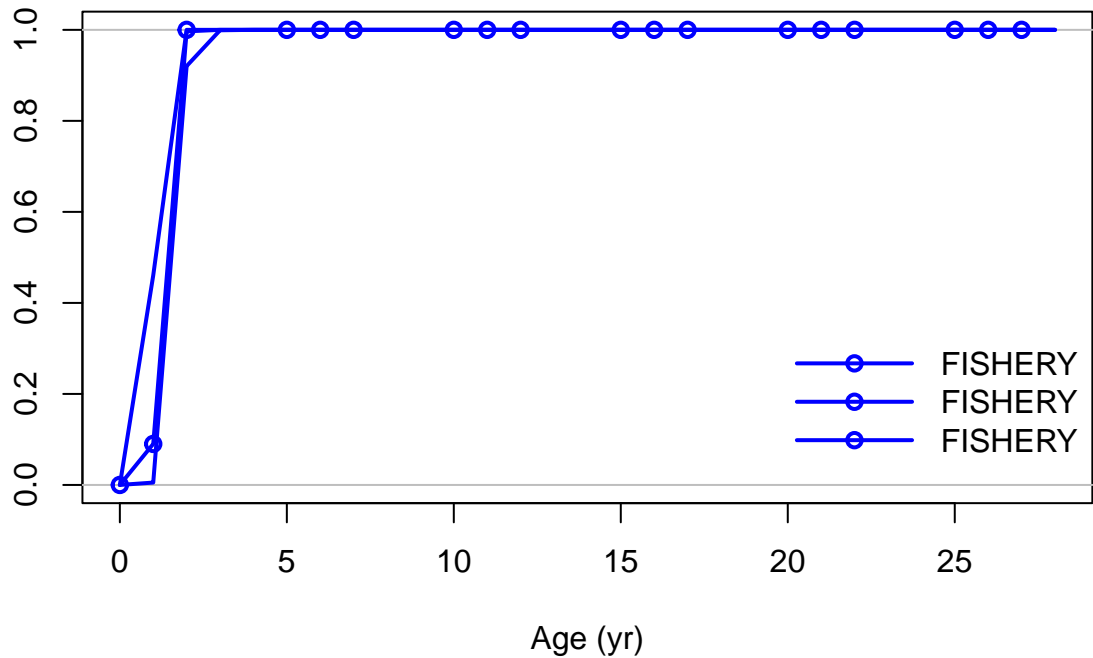
Spawning output



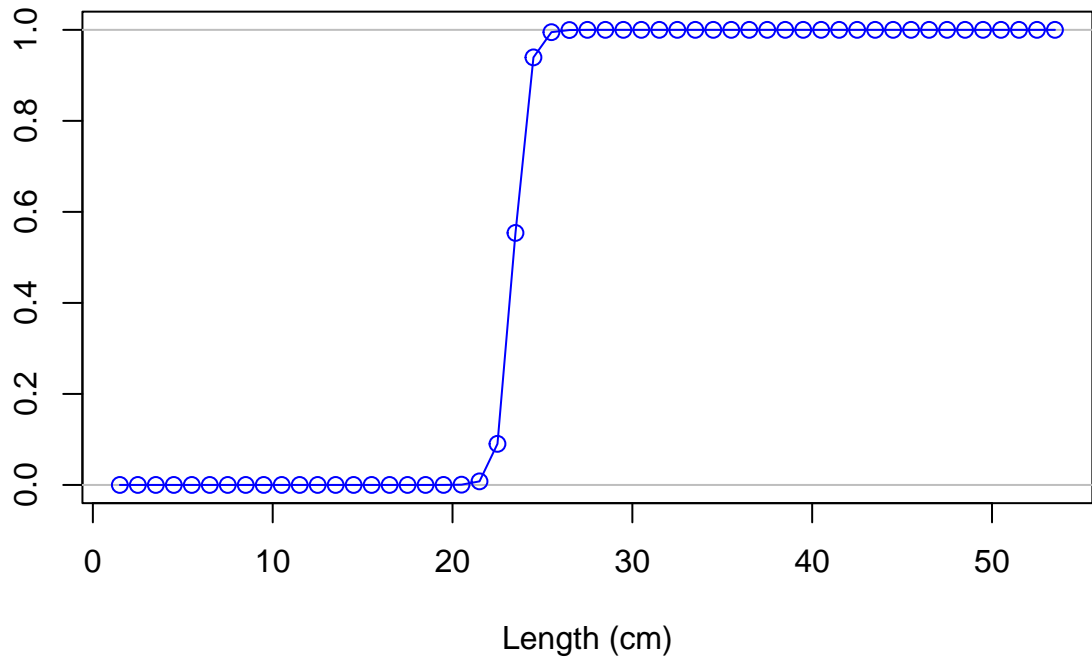
Selectivity

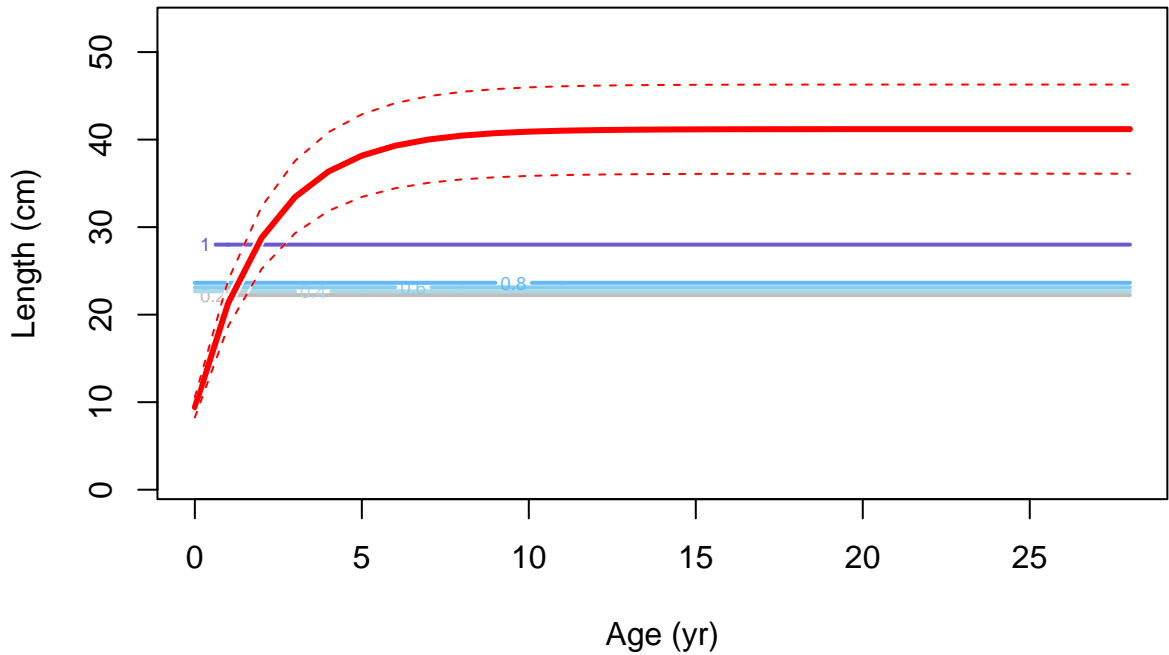


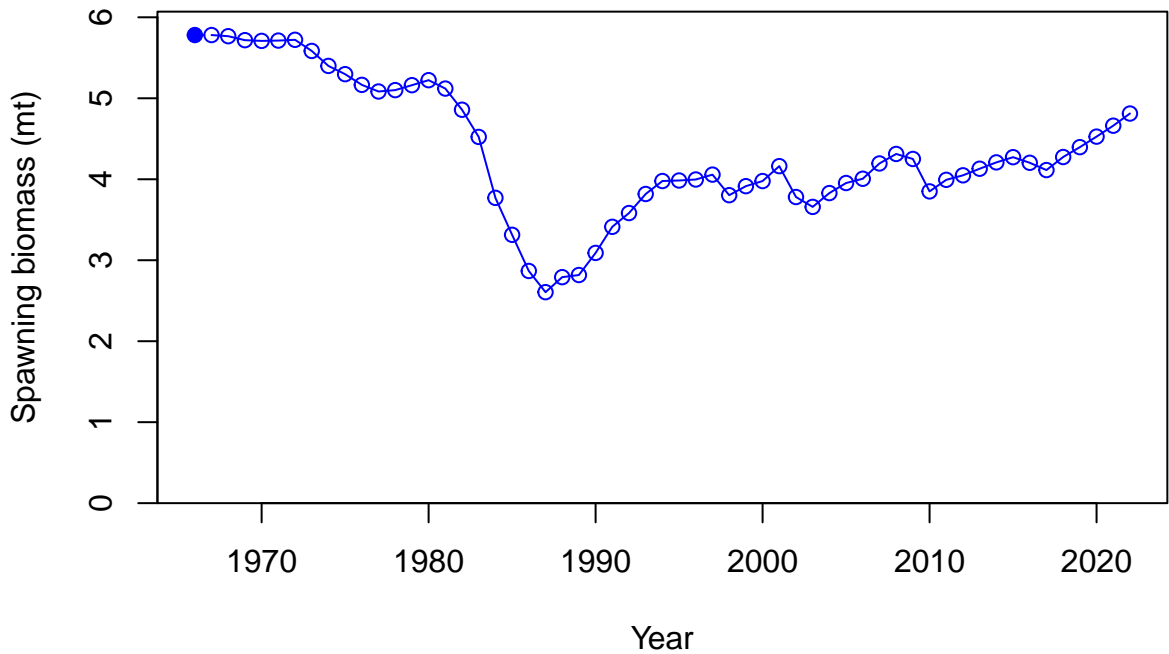
Selectivity

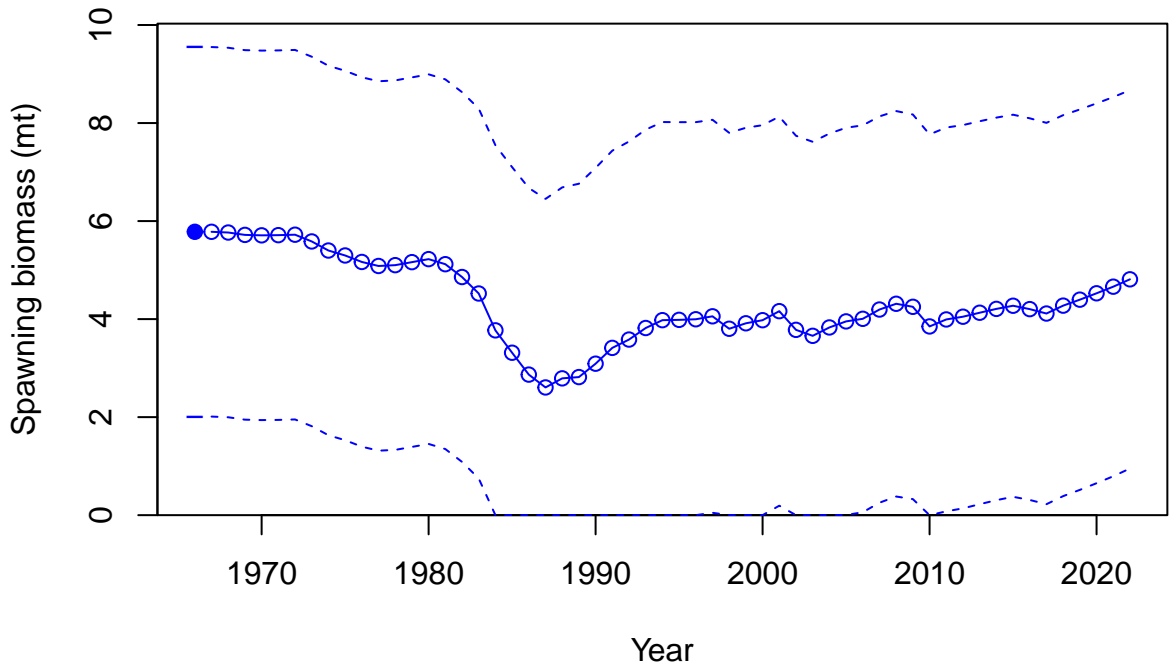


Selectivity

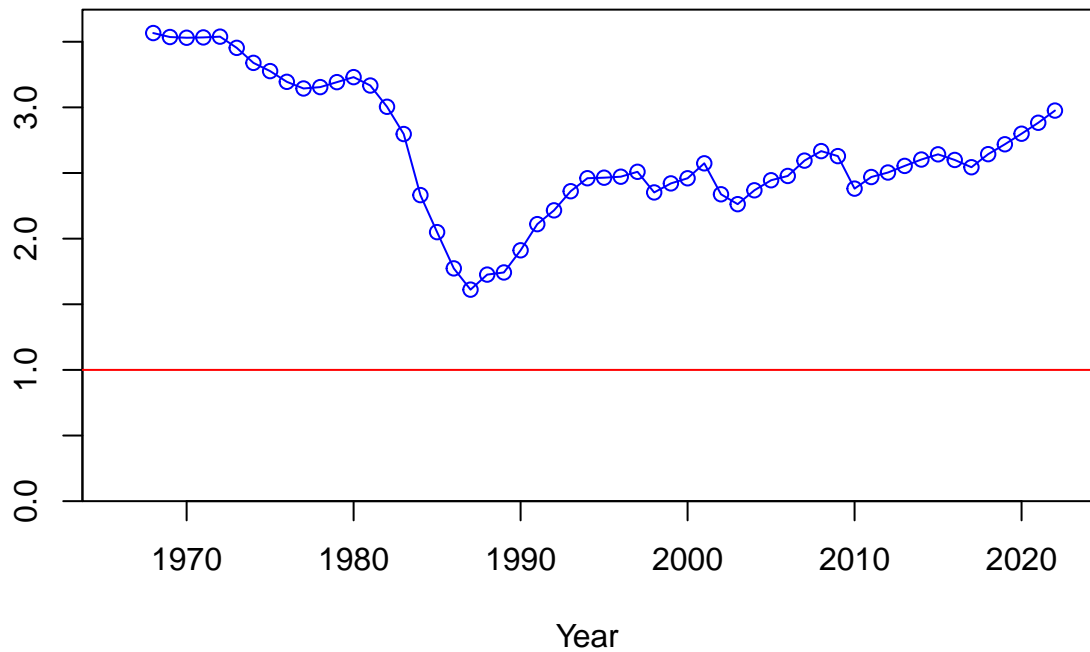




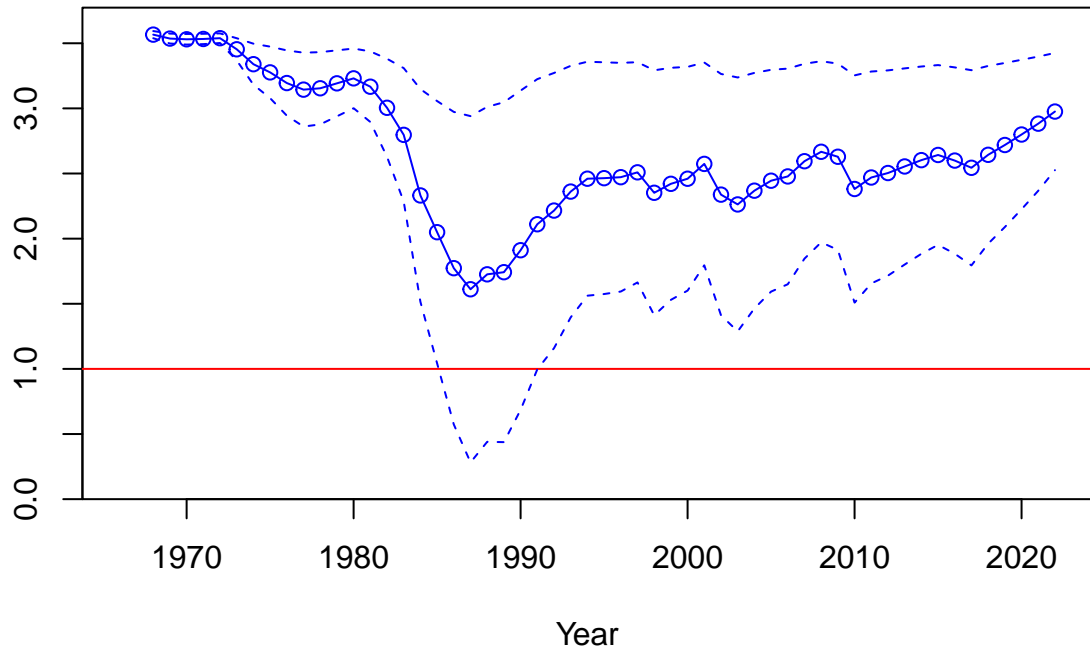


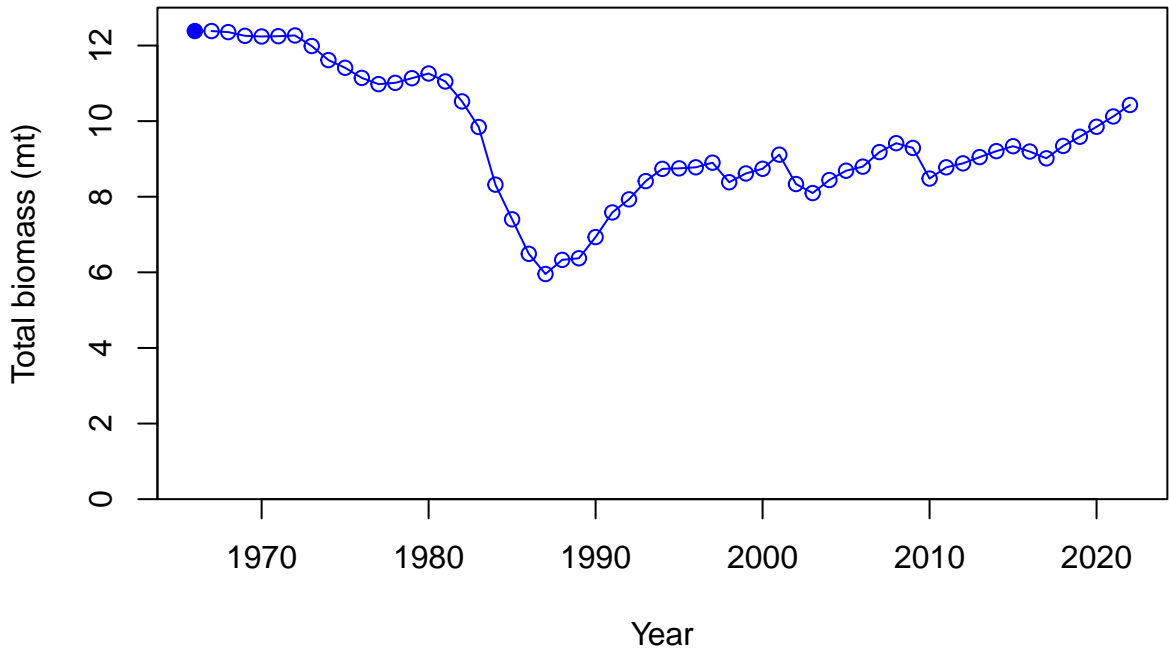


Relative spawning biomass: B/B_{MSY}

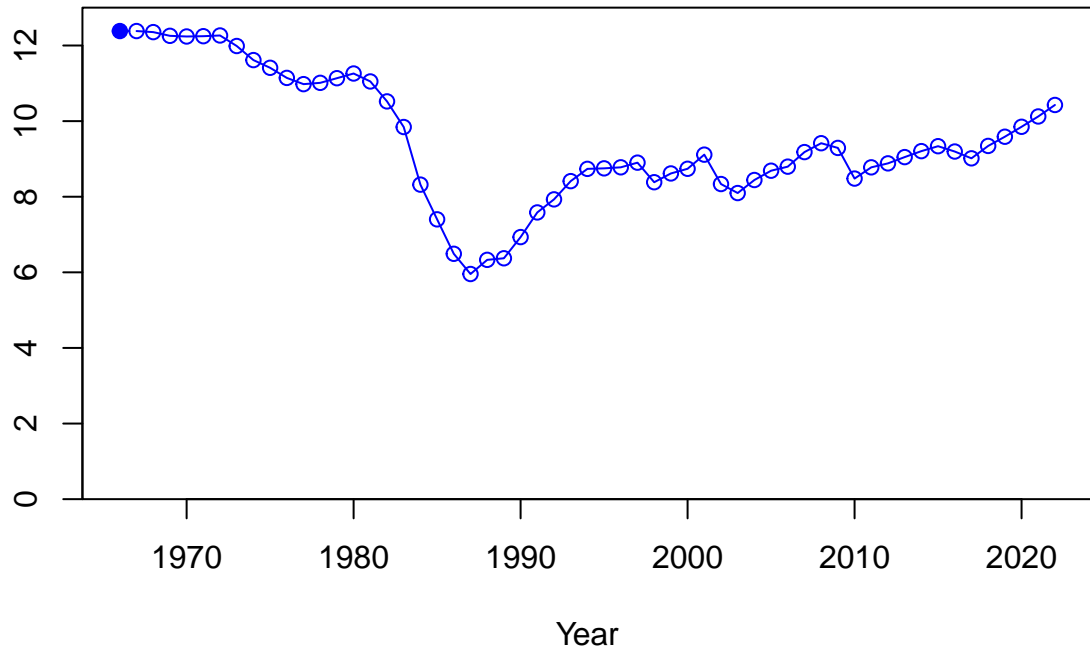


Relative spawning biomass: B/B_{MSY}

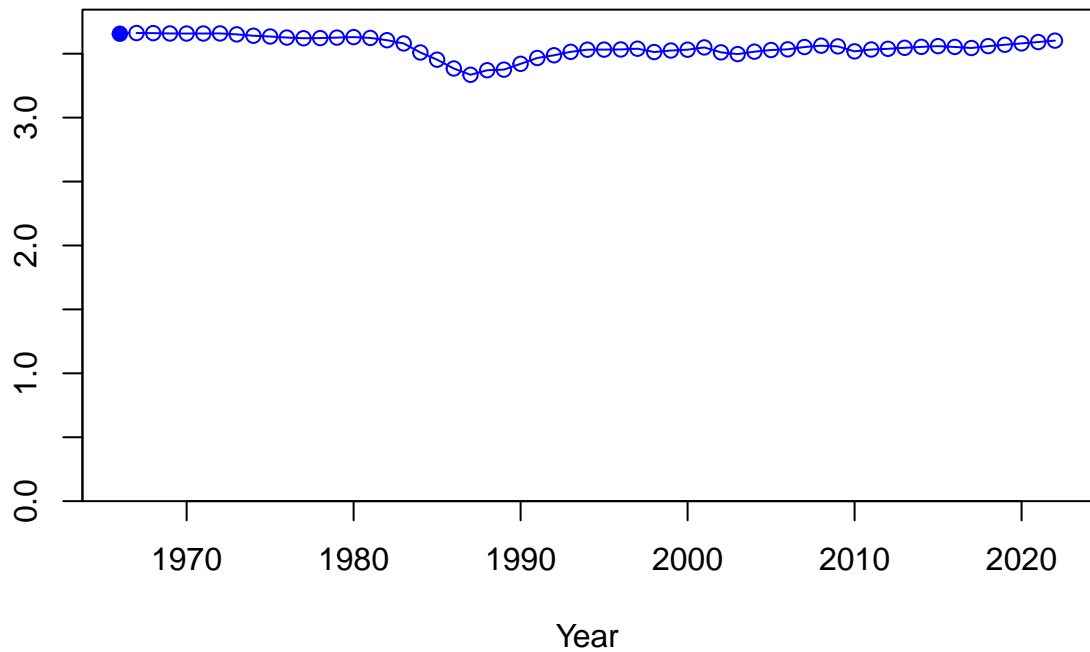




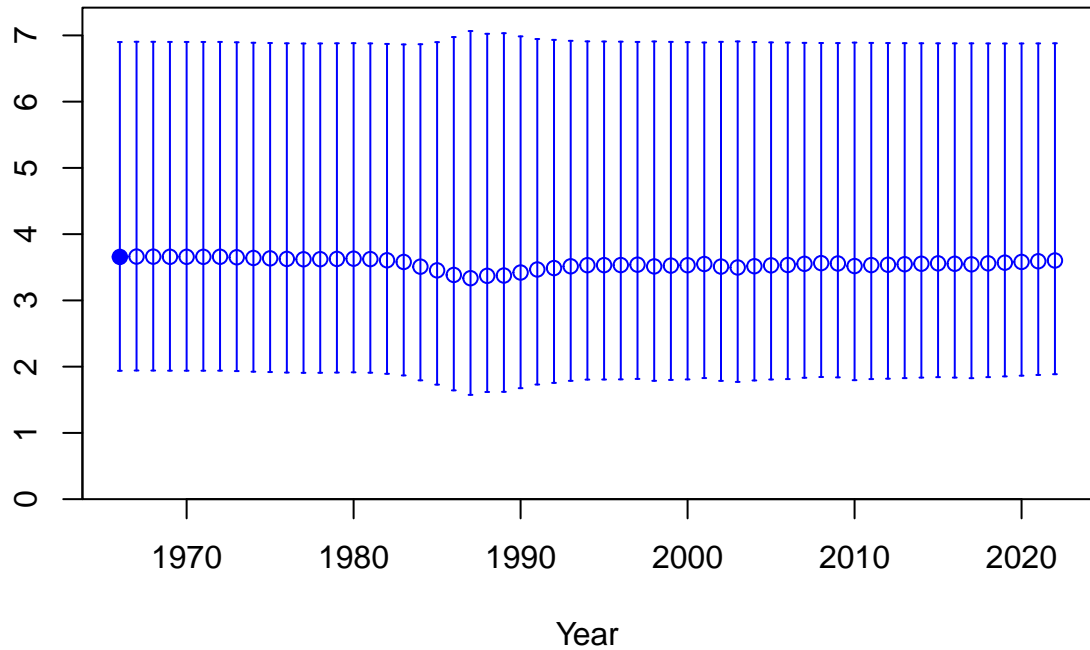
Summary biomass (mt)



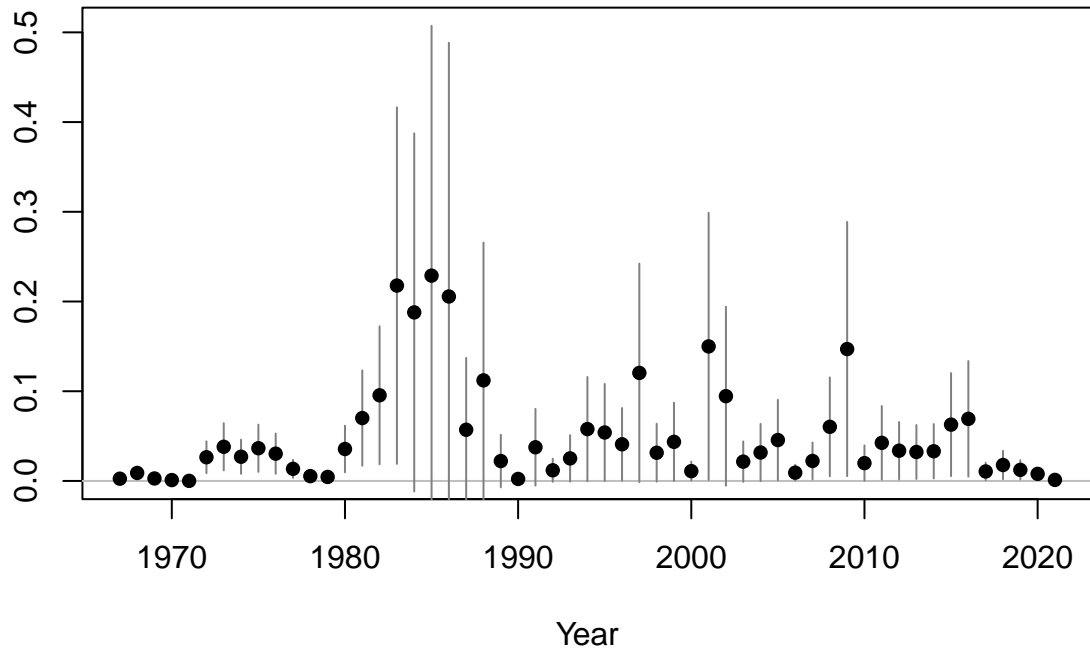
Age-0 recruits (1,000s)

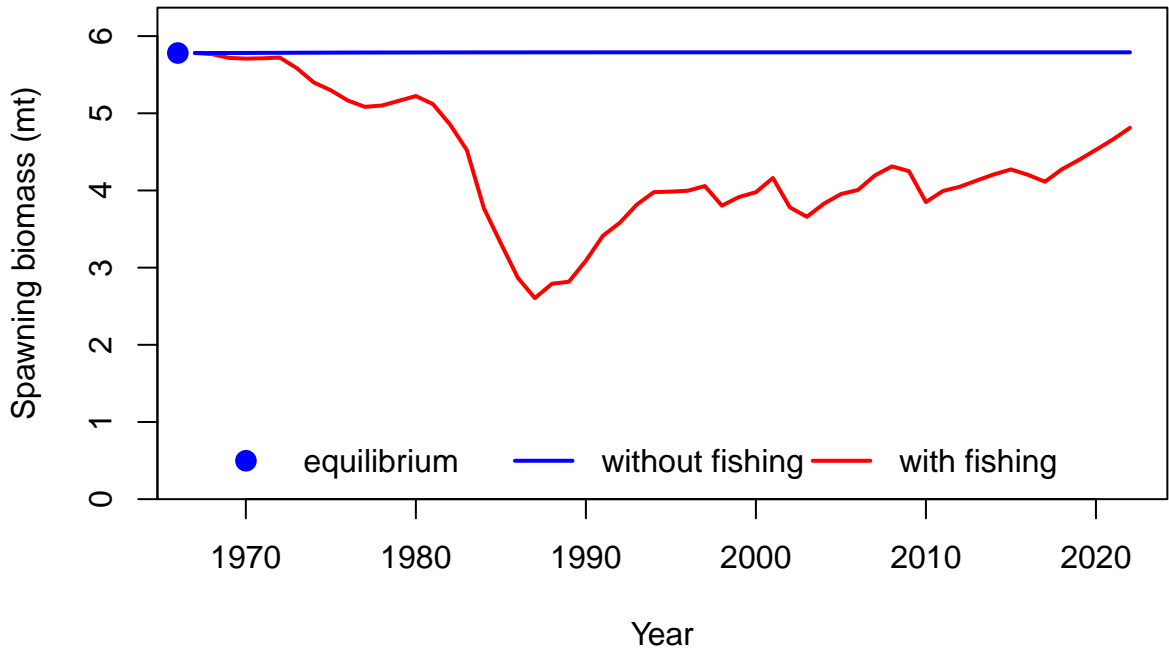


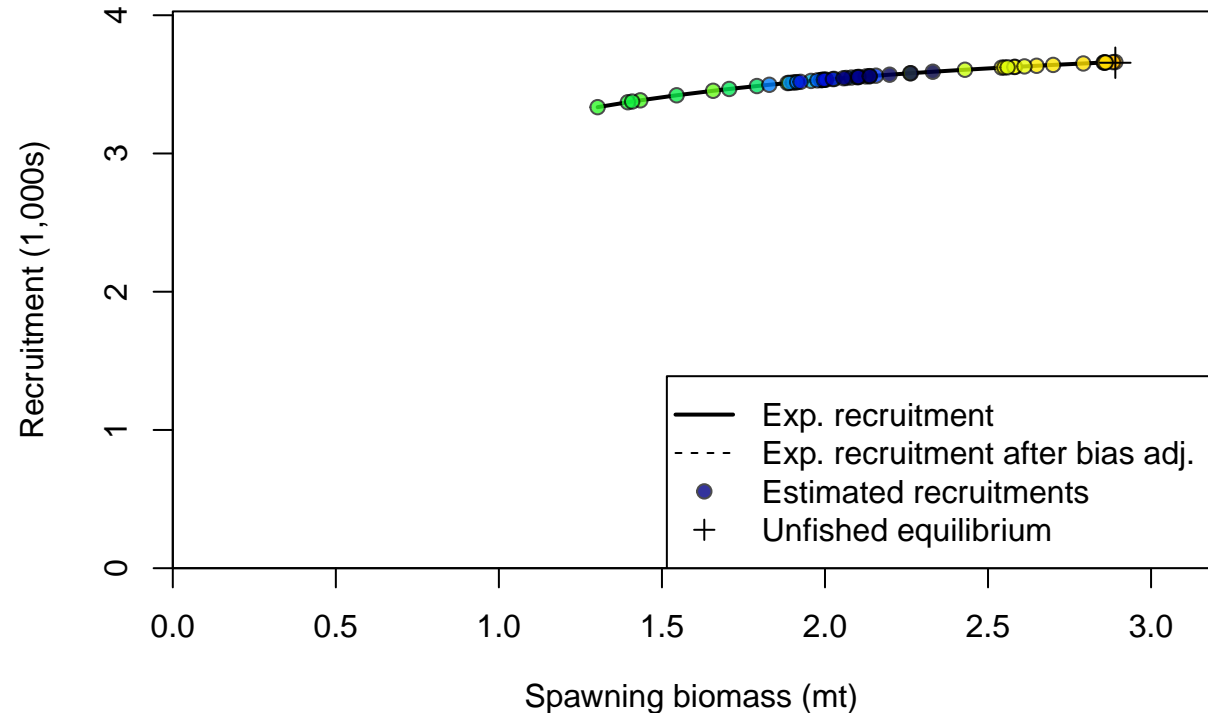
Age-0 recruits (1,000s)

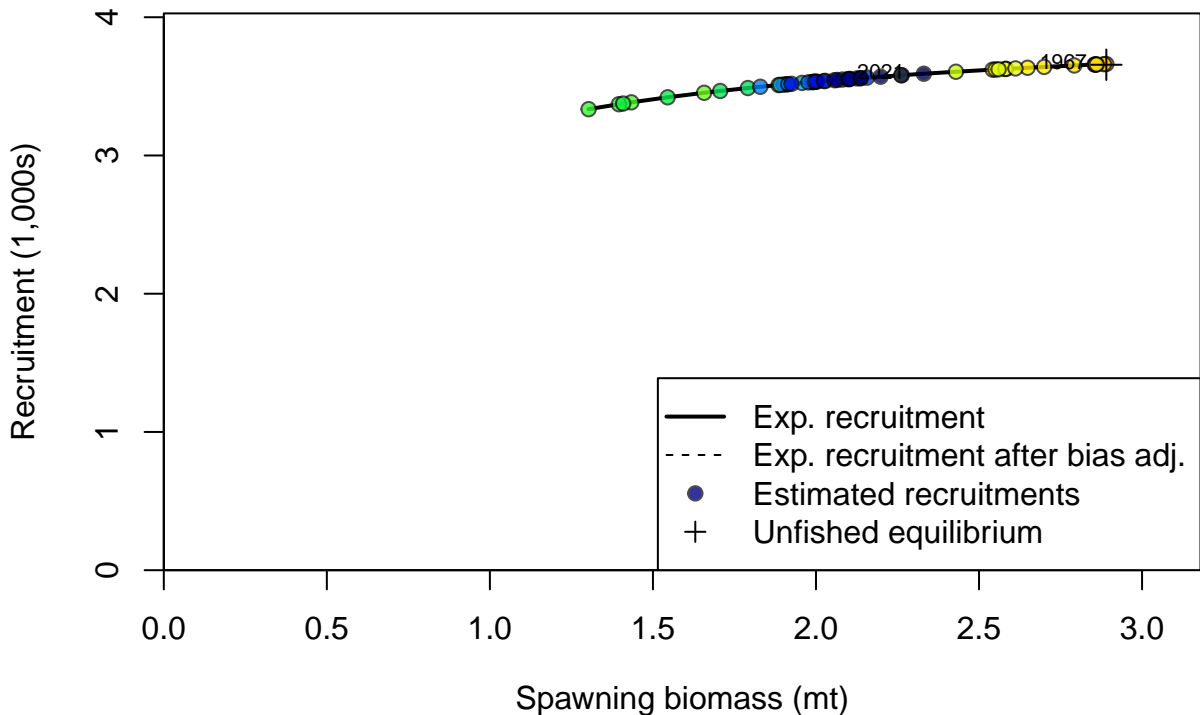


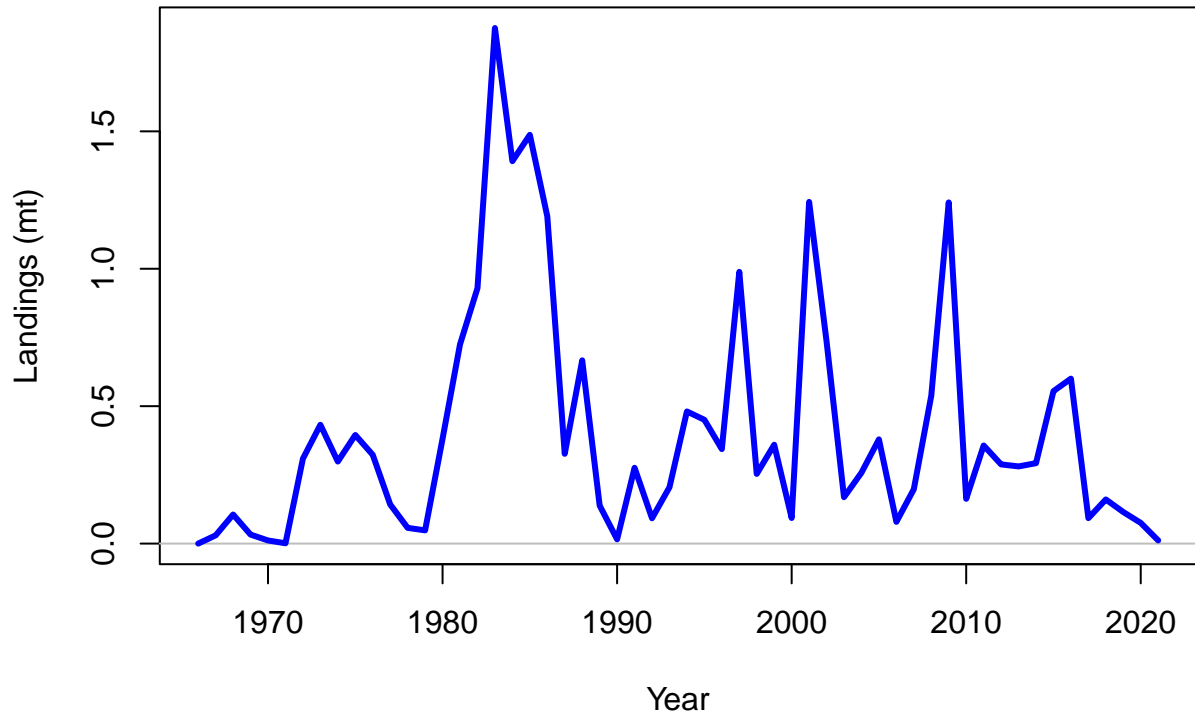
Summary Fishing Mortality

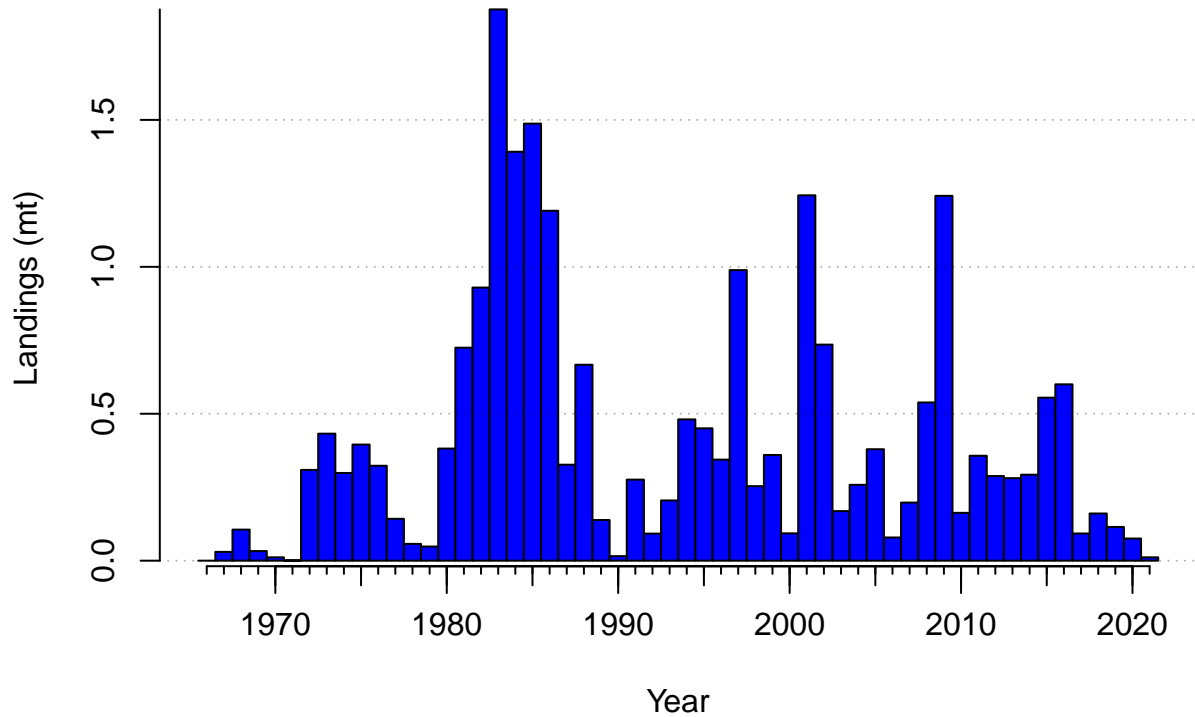


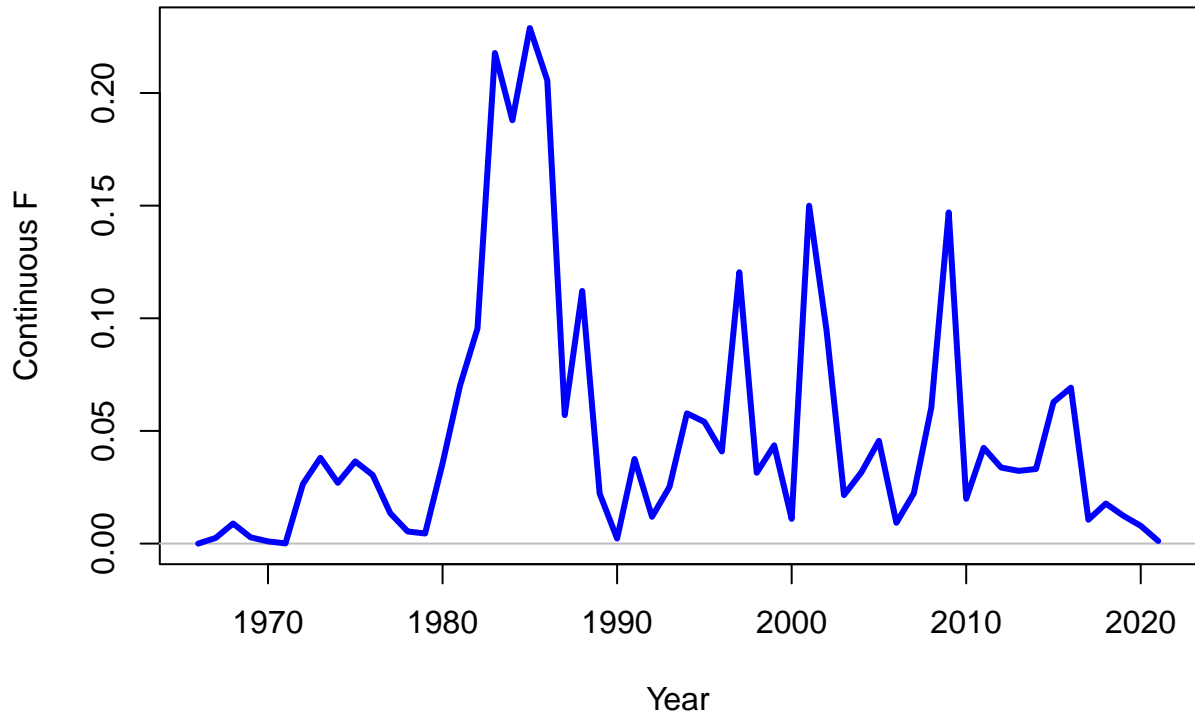




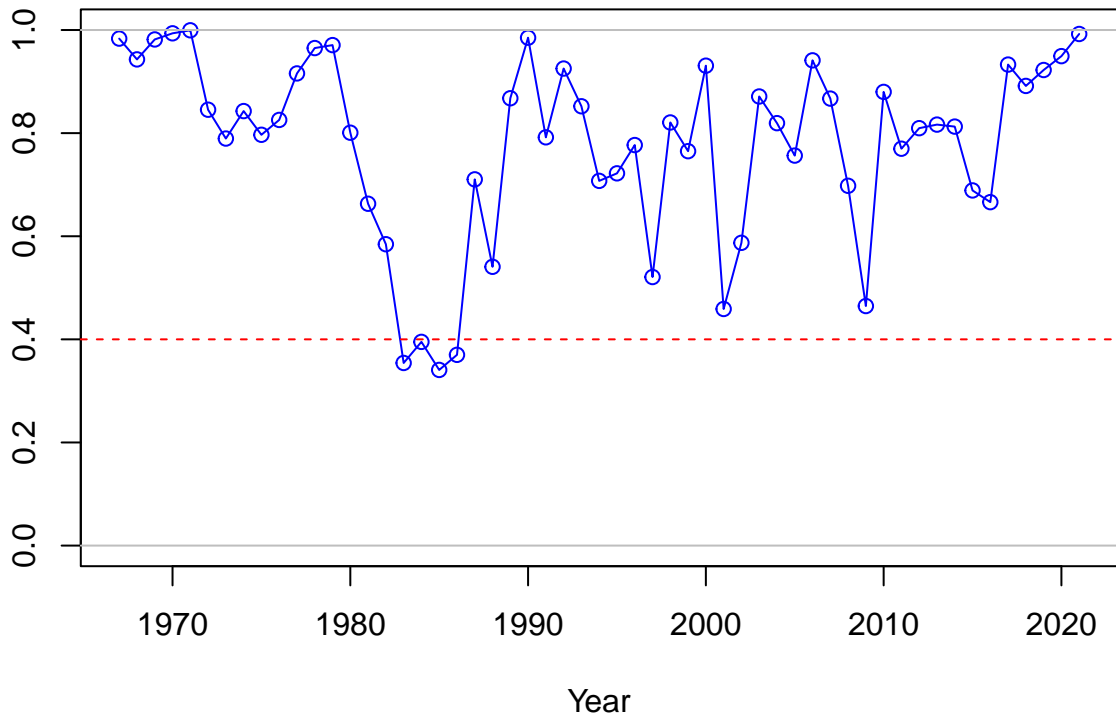




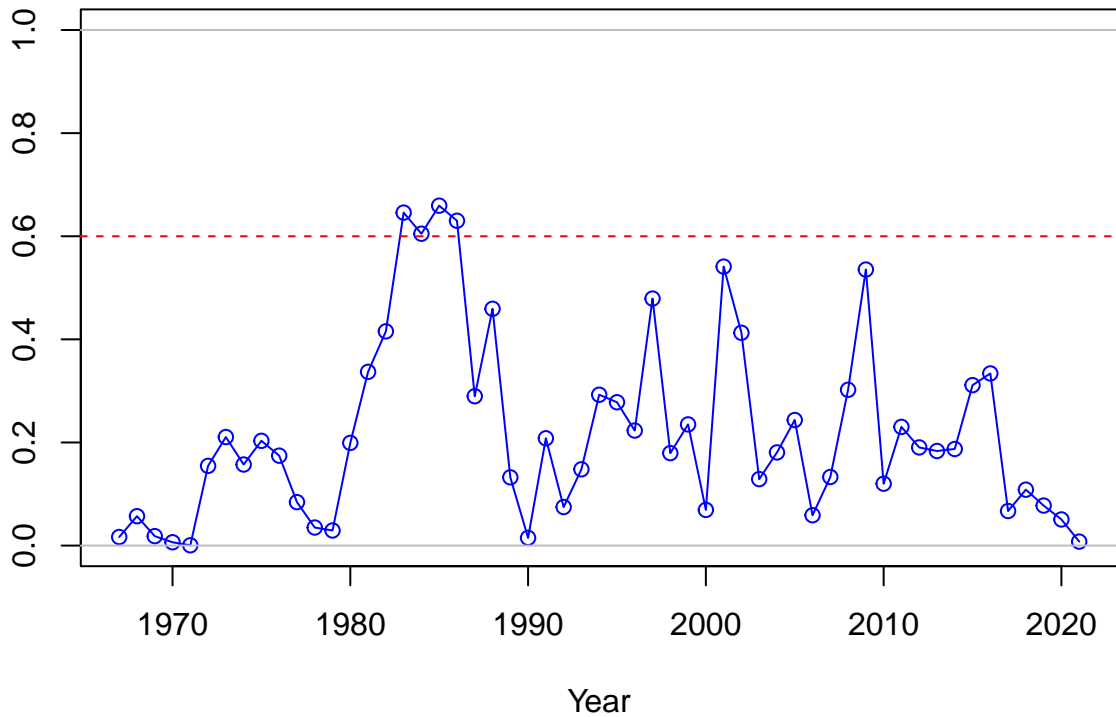




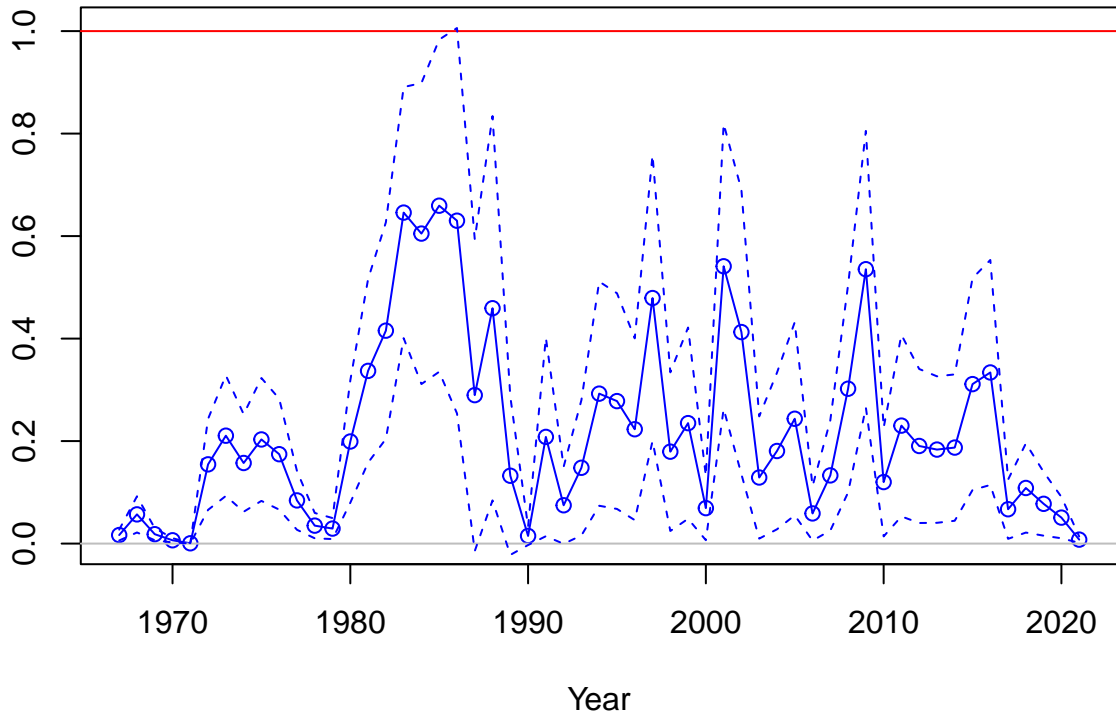
SPR



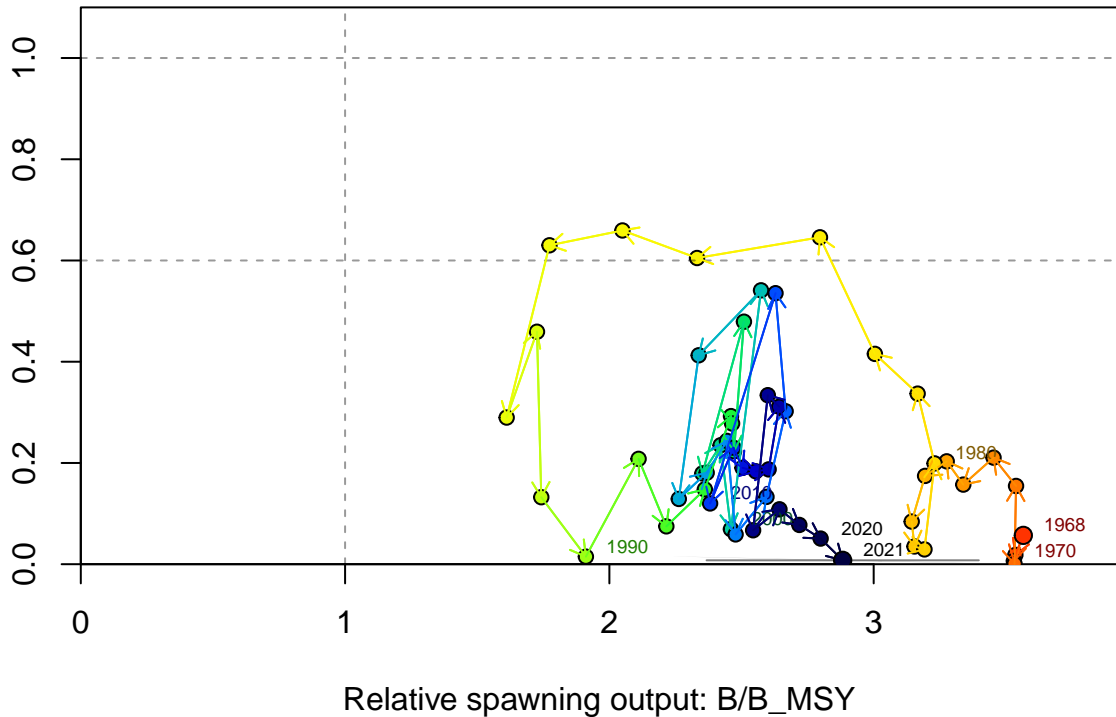
1-SPR



Fishing intensity: 1-SPR



Fishing intensity: 1-SPR



Index

10
8
6
4
2
0

1990

1995

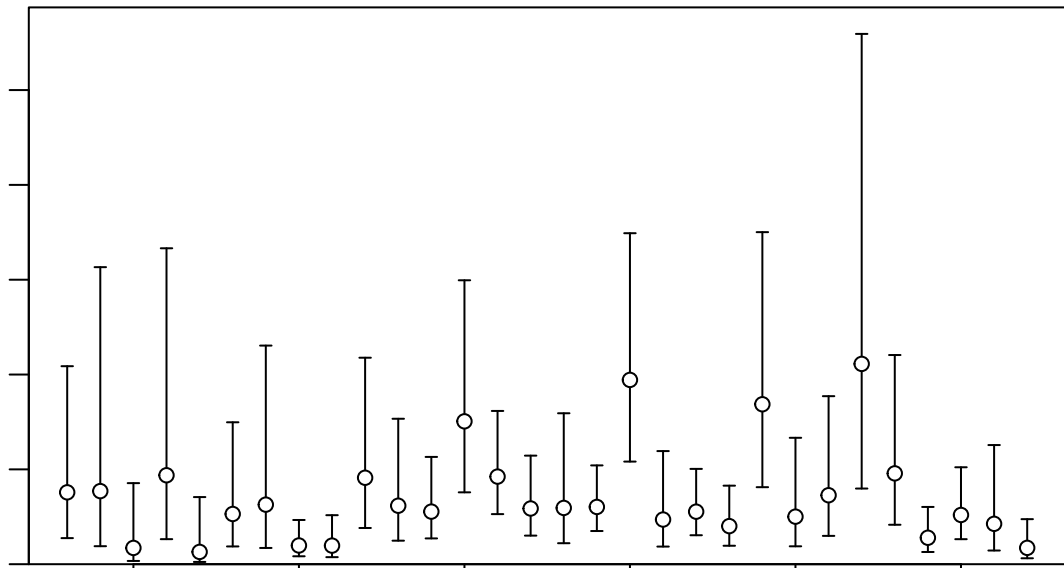
2000

2005

2010

2015

Year



Index

10
8
6
4
2
0

1990

1995

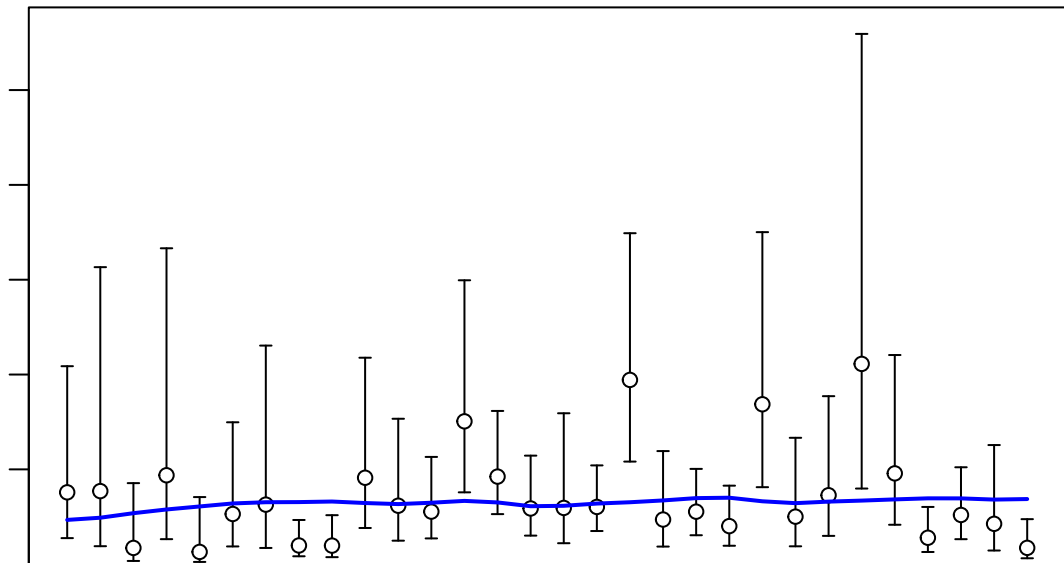
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2005

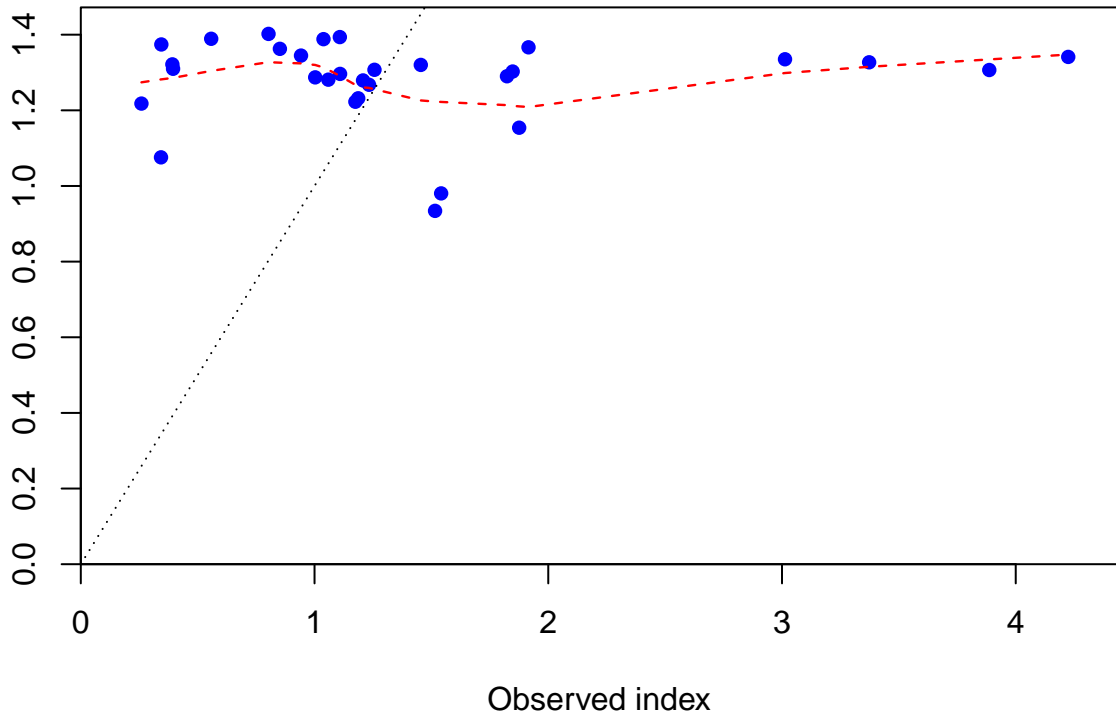
2010

2015

Year



Expected index



Log index

2
1
0
-1
-2
-3

1990

1995

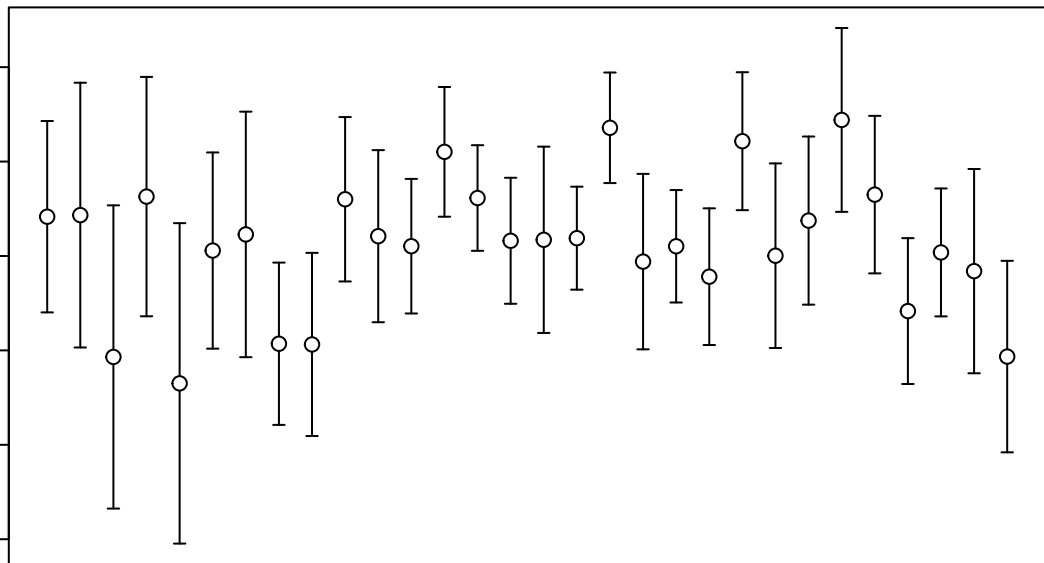
2000

2005

2010

2015

Year



Log index

2
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0
-1
-2
-3

1990

1995

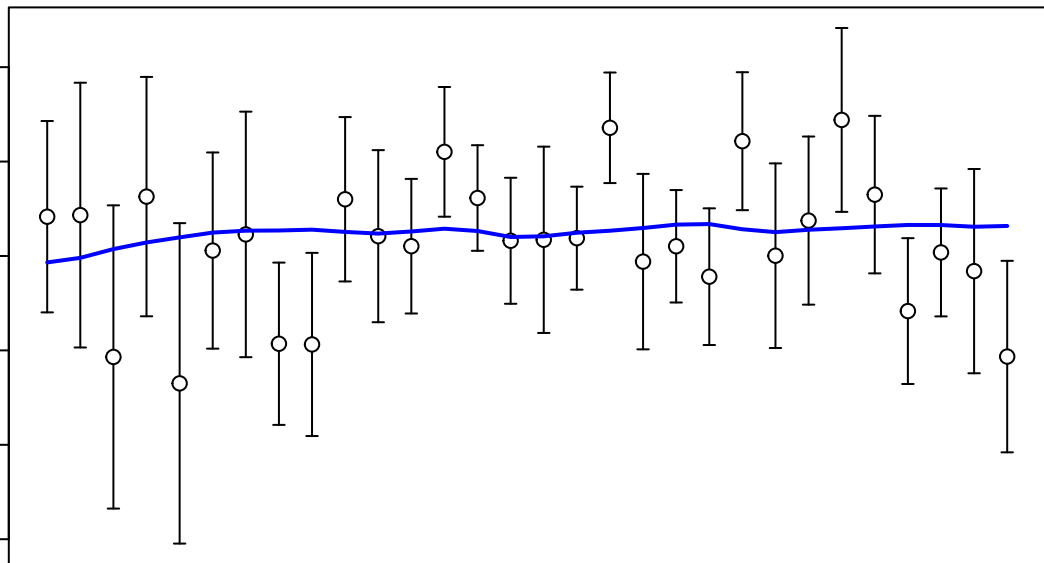
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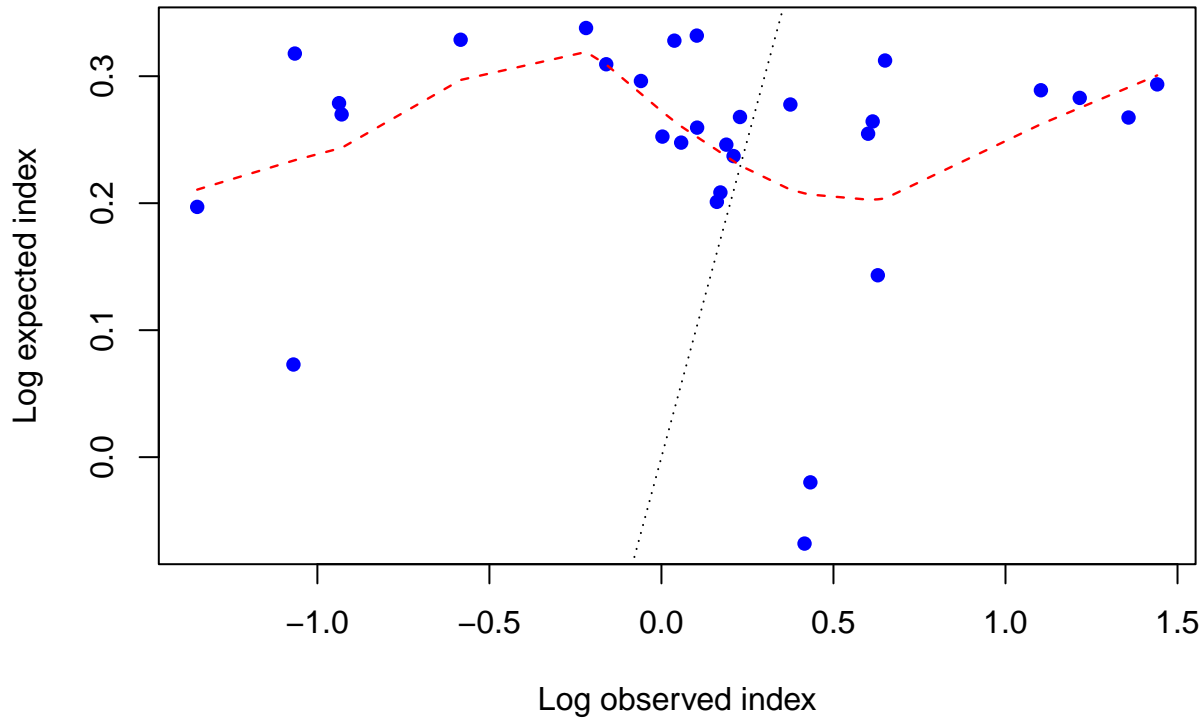
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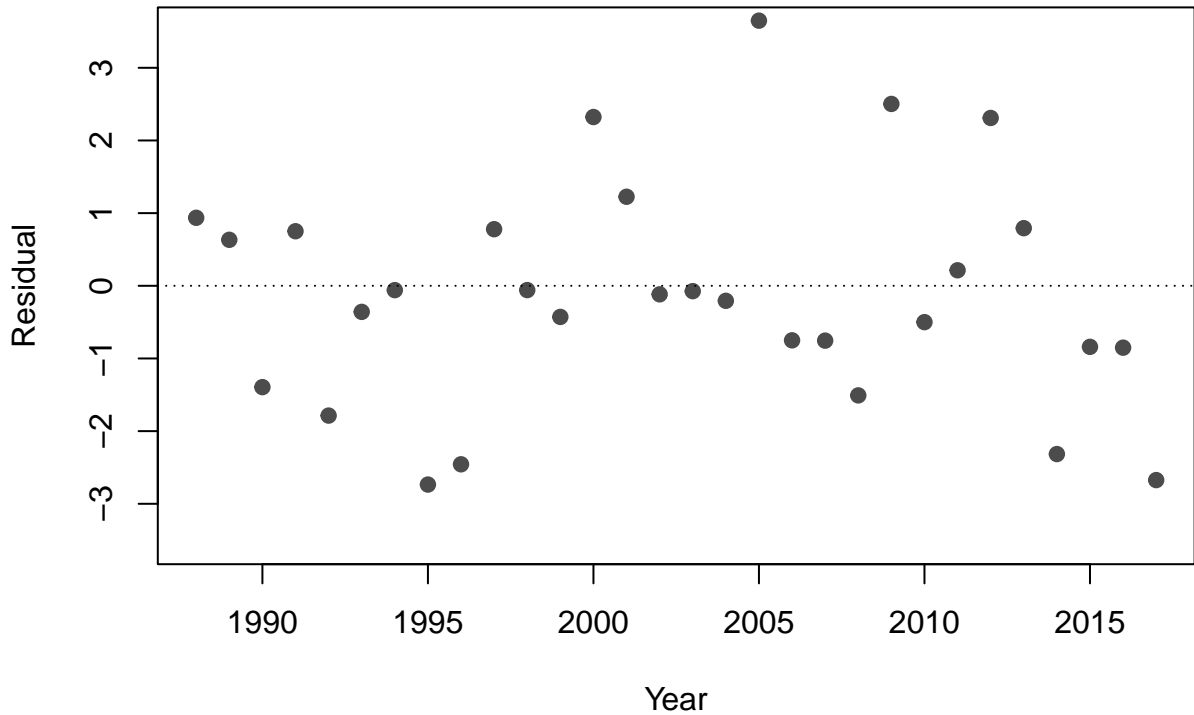
2010

2015

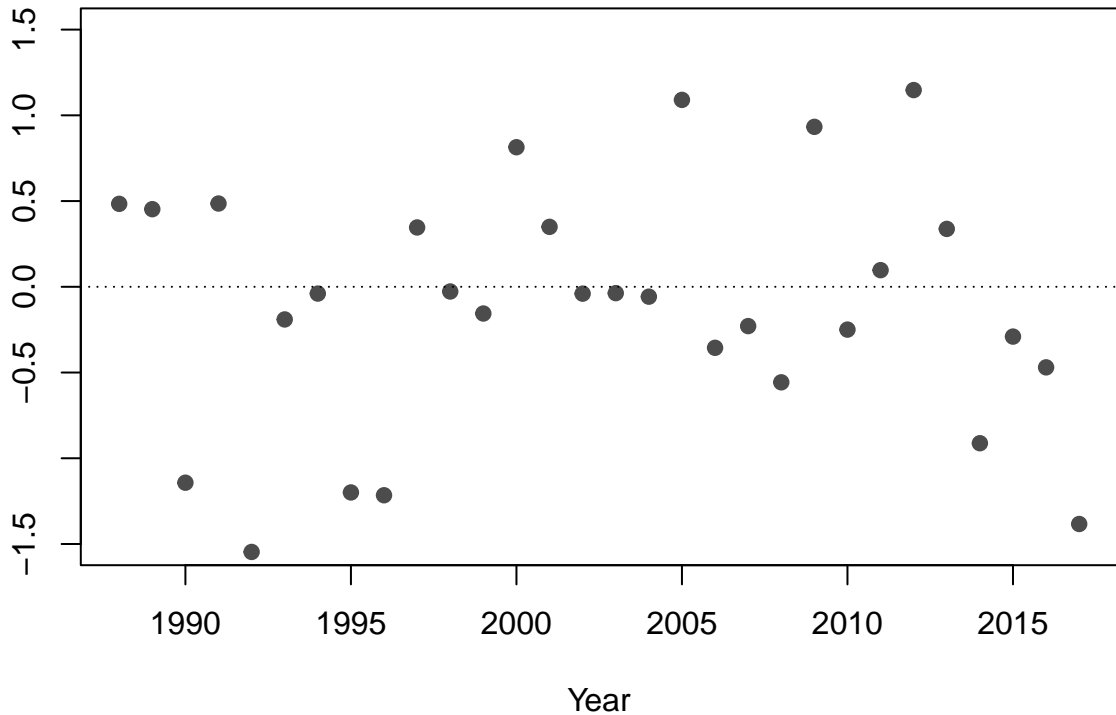
Year

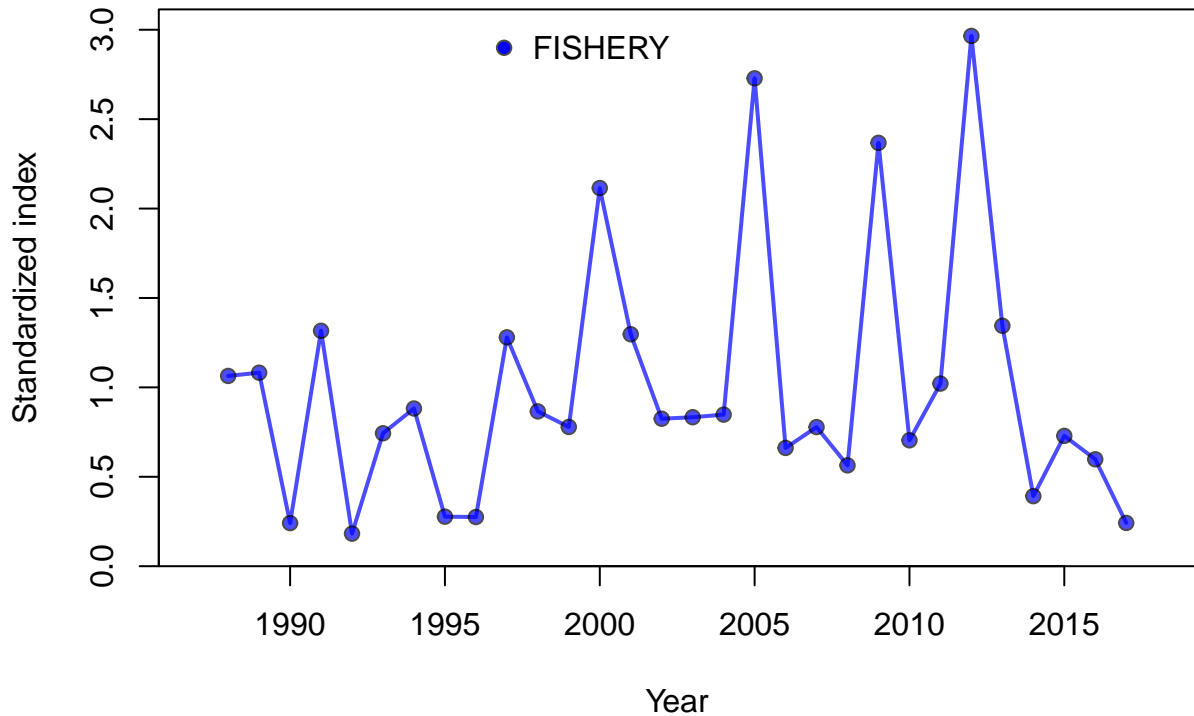


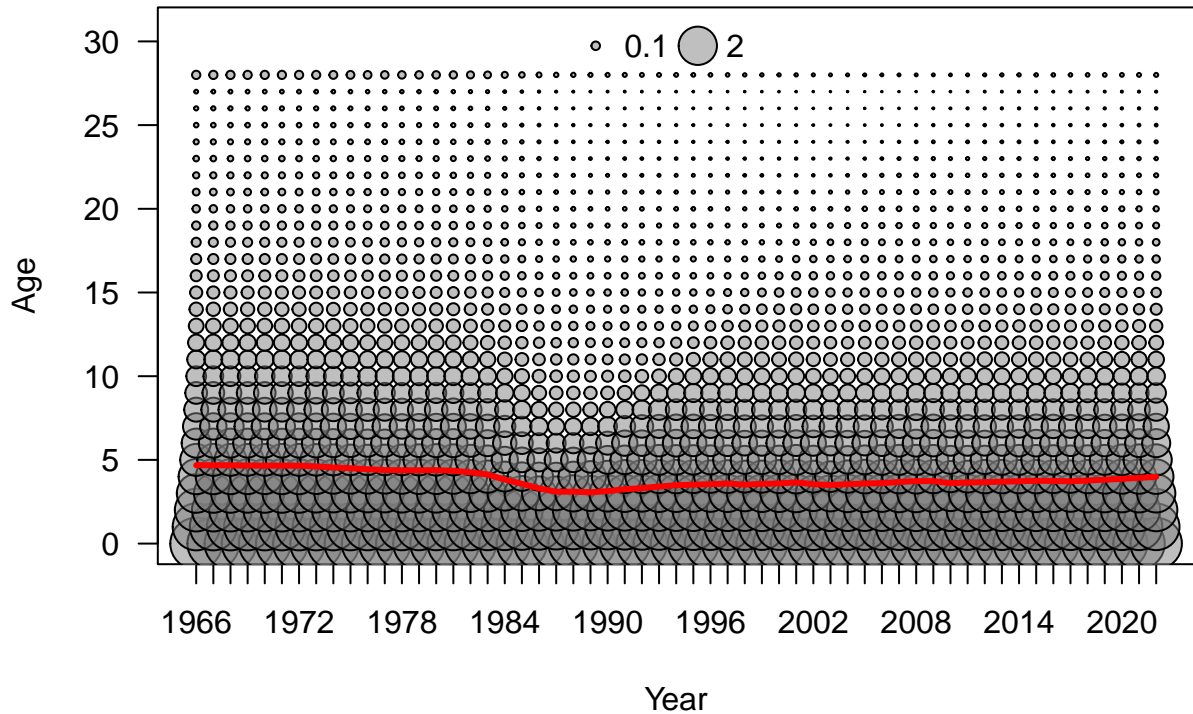


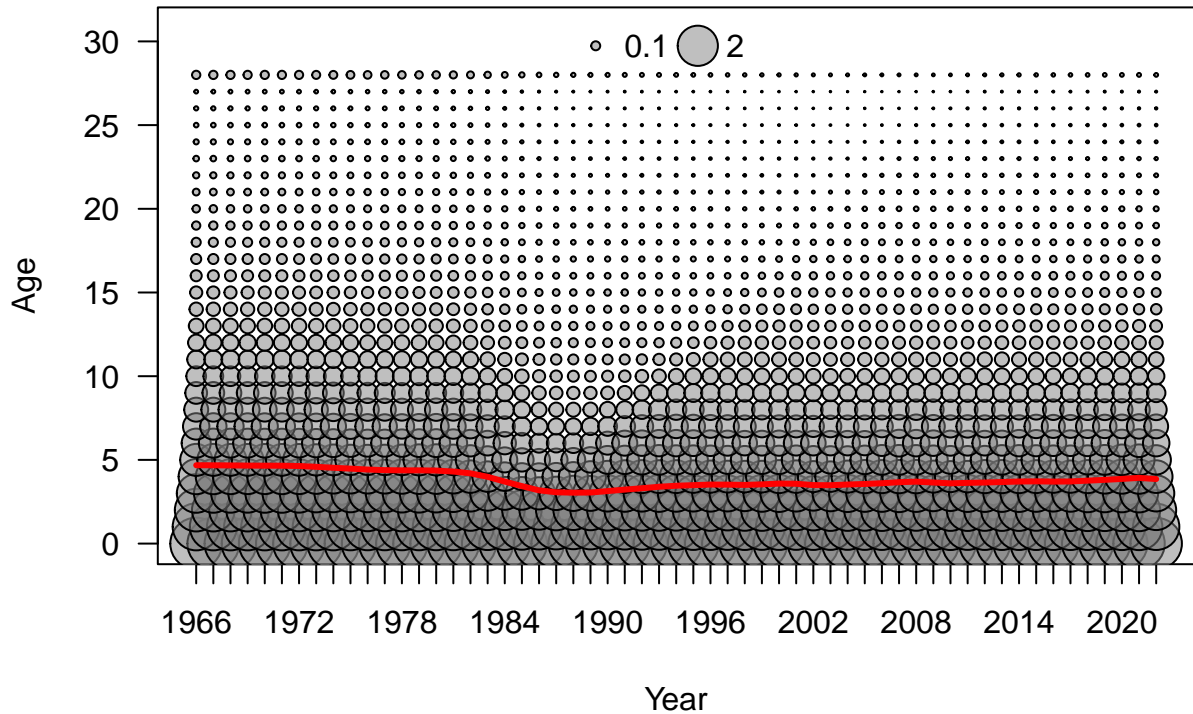


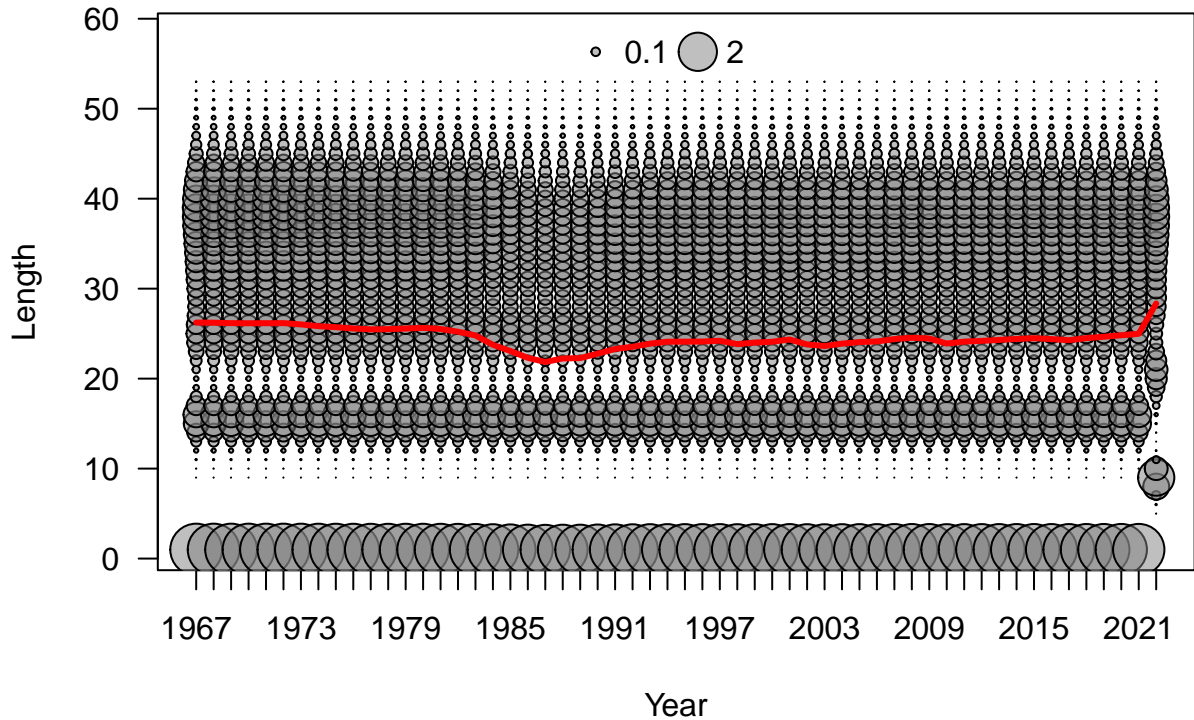
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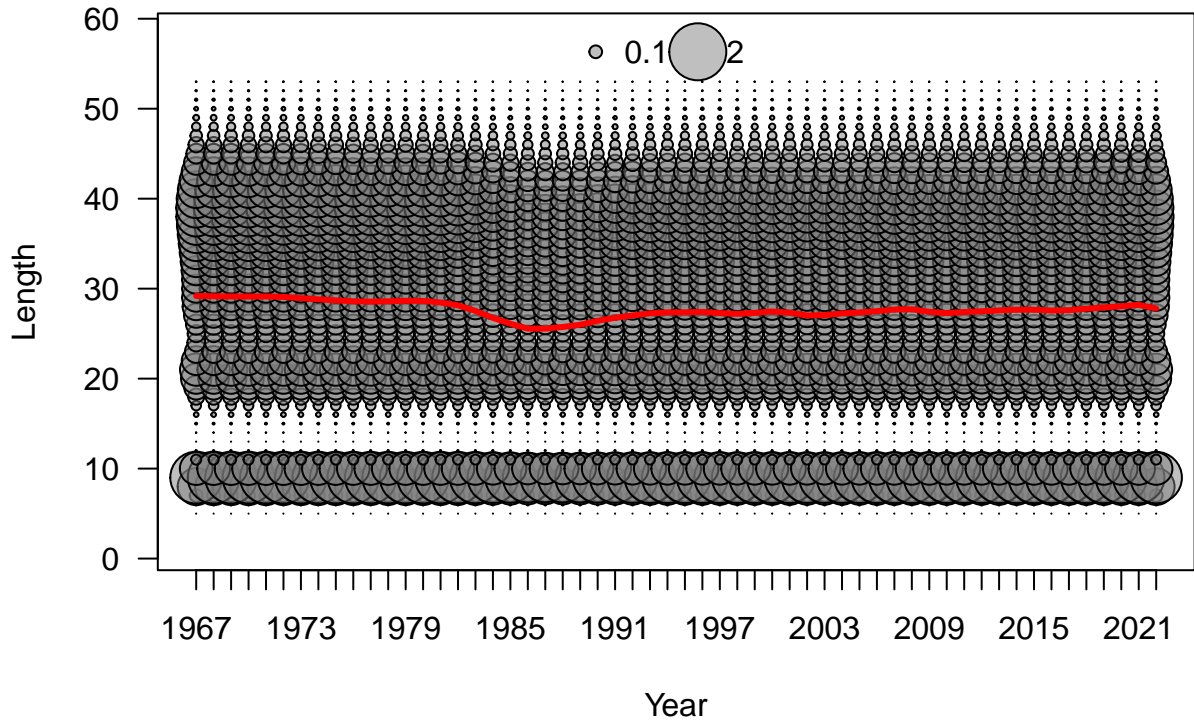


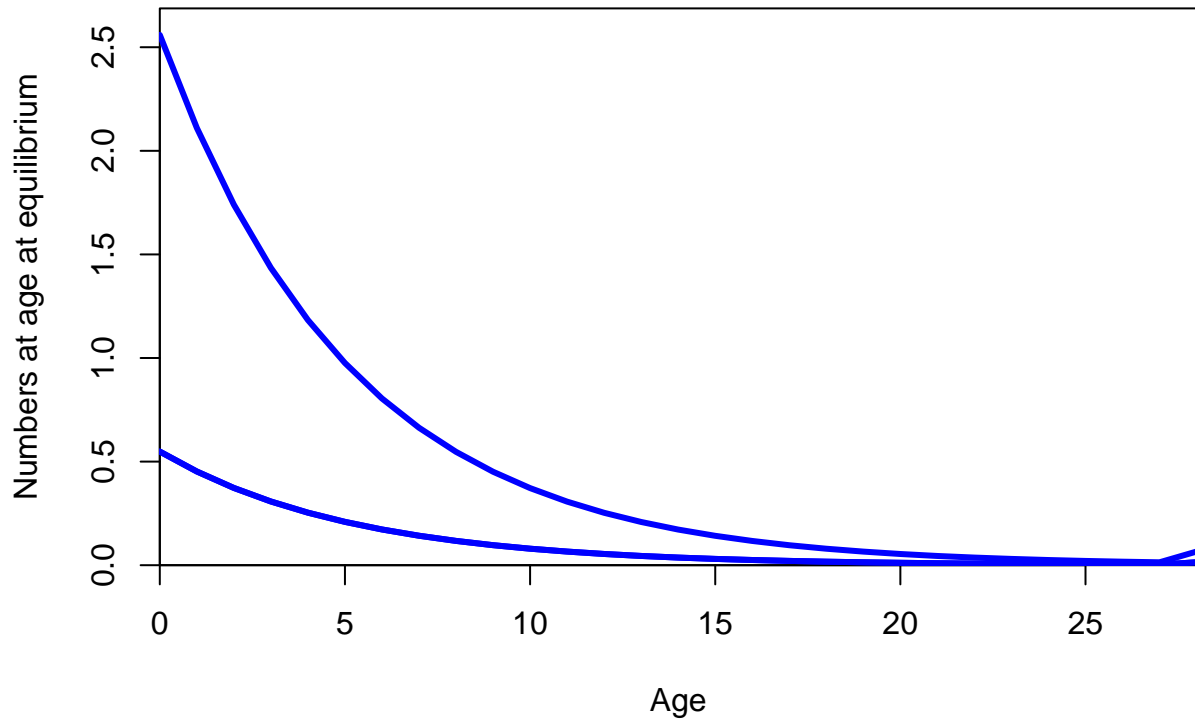


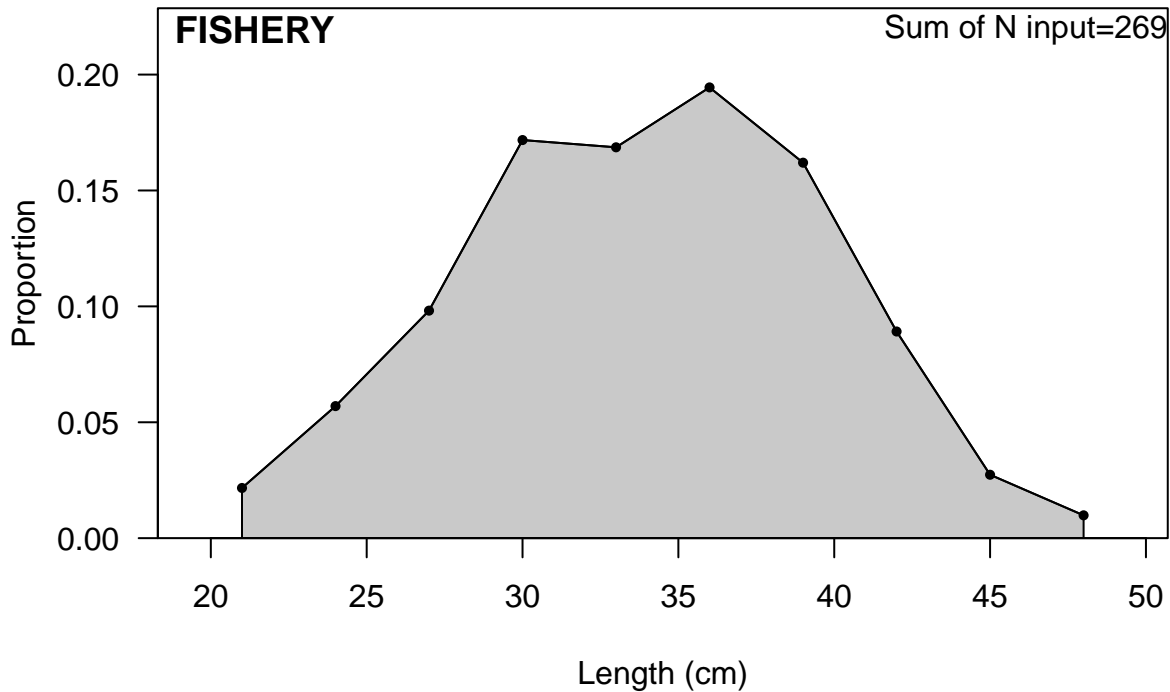


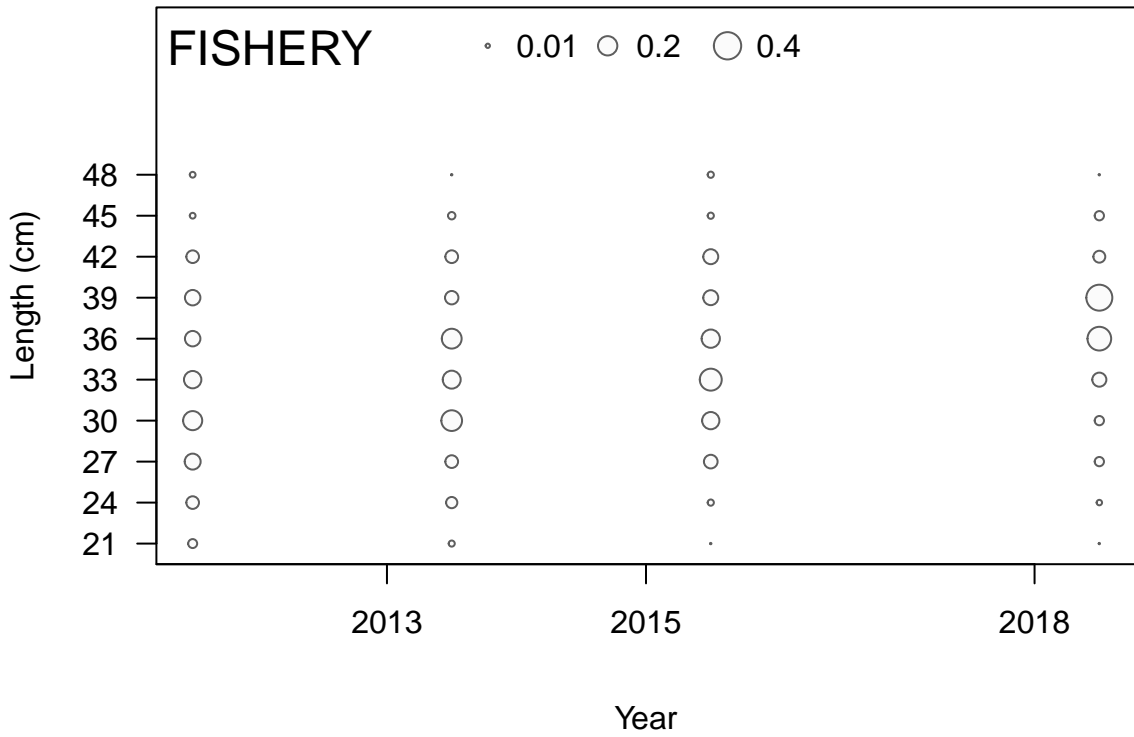


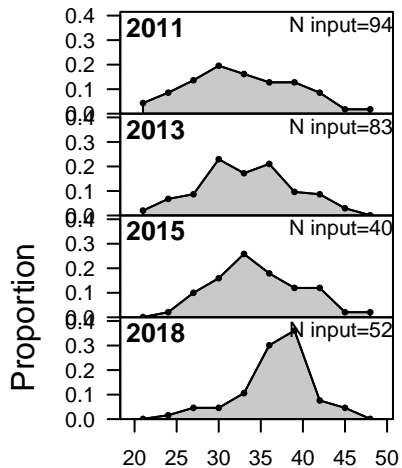




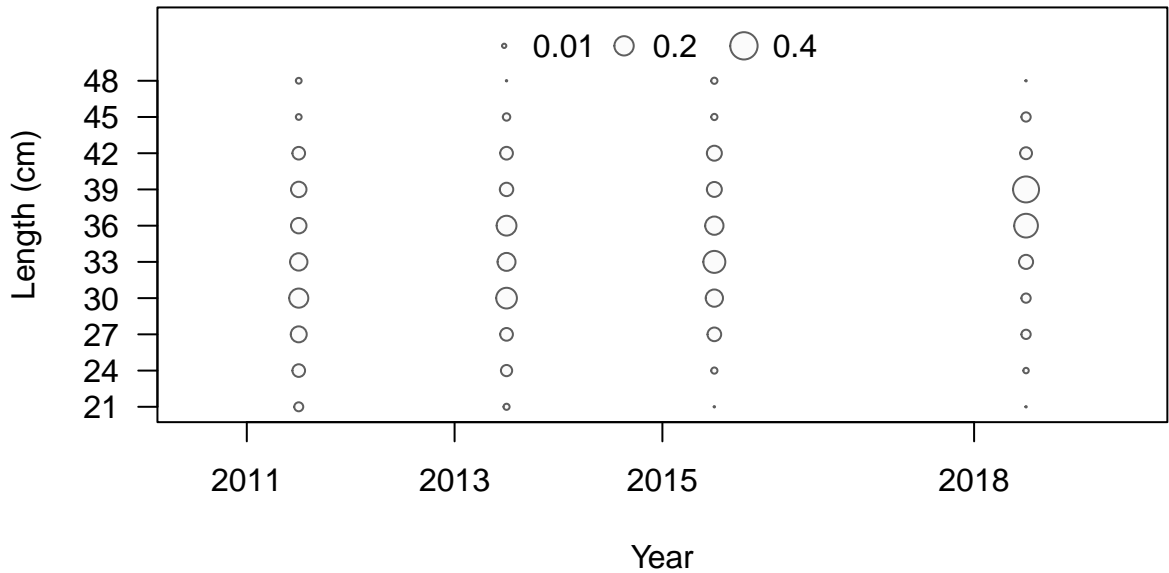




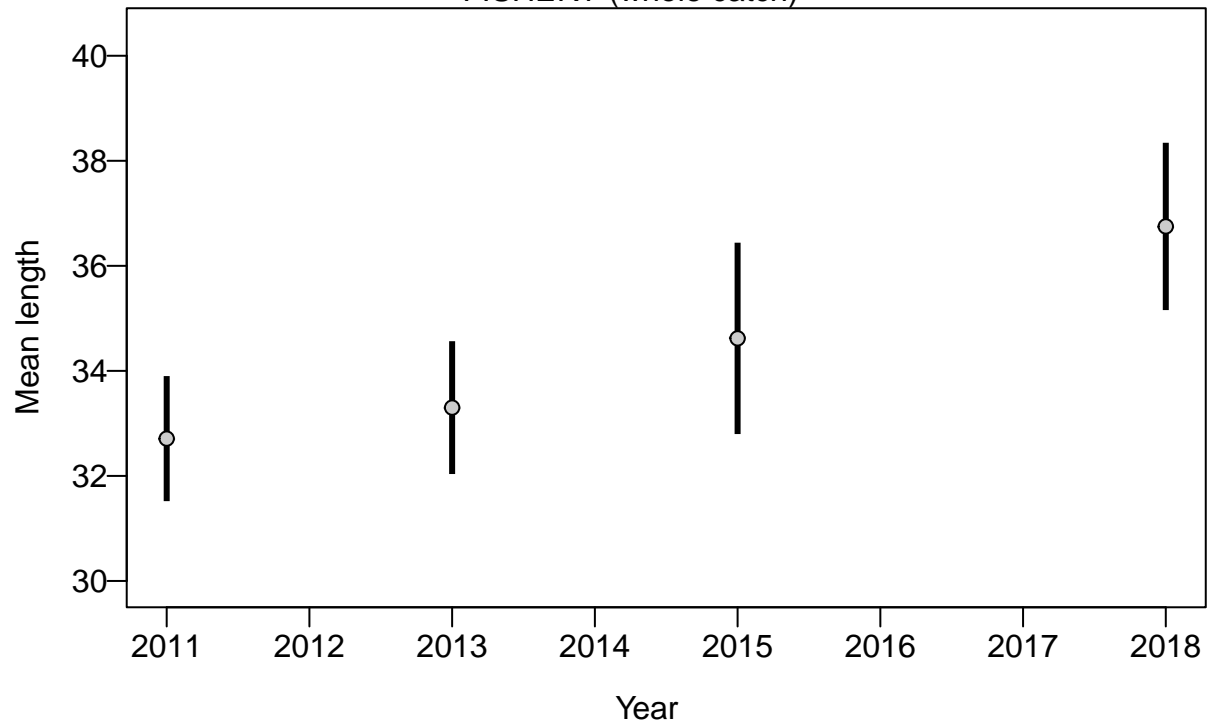


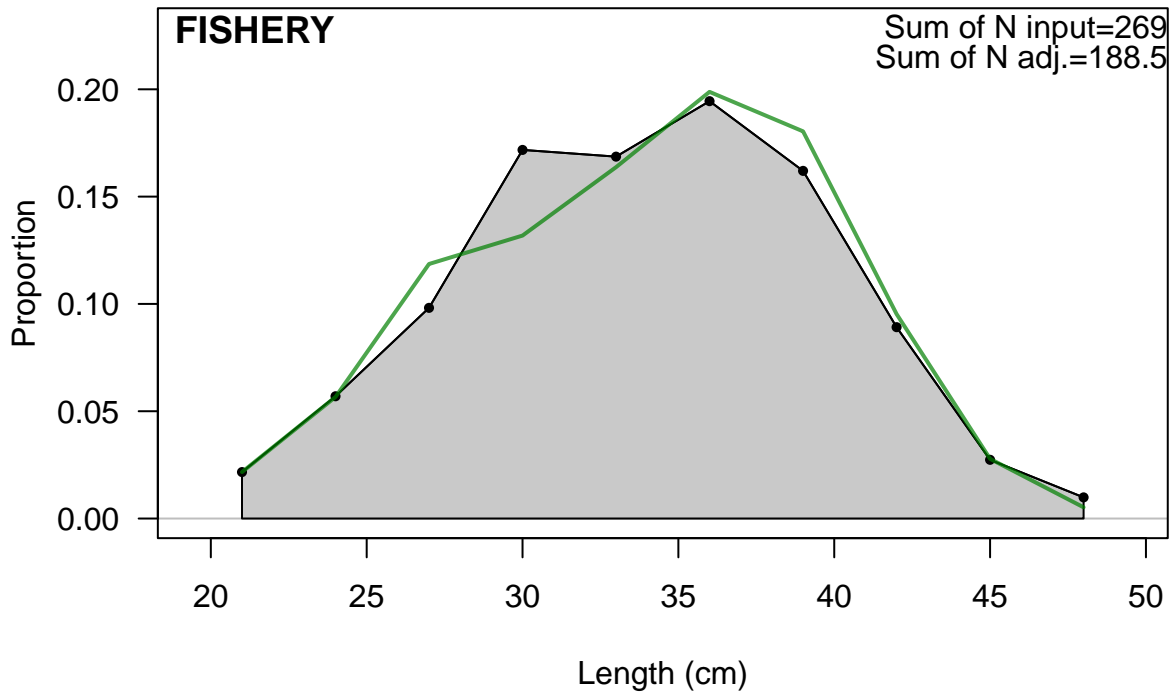


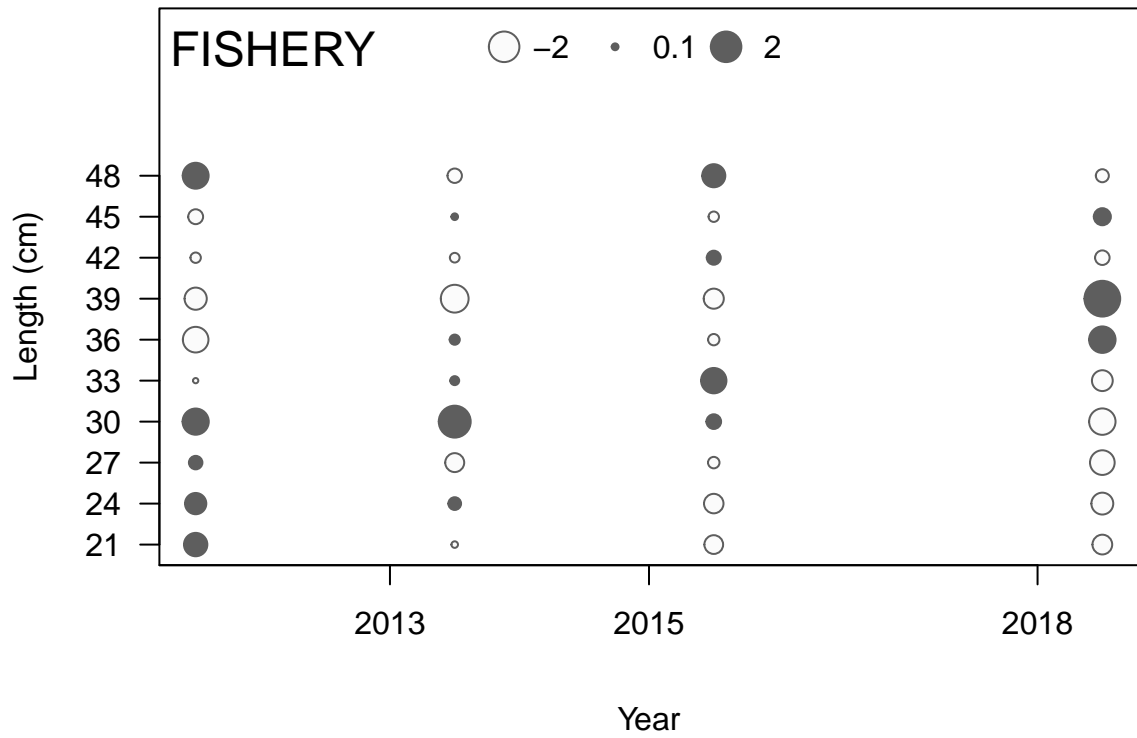
Length (cm)

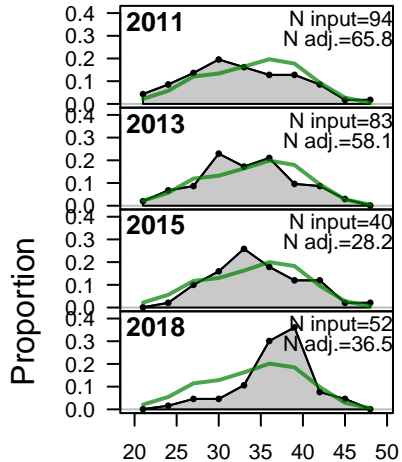


FISHERY (whole catch)

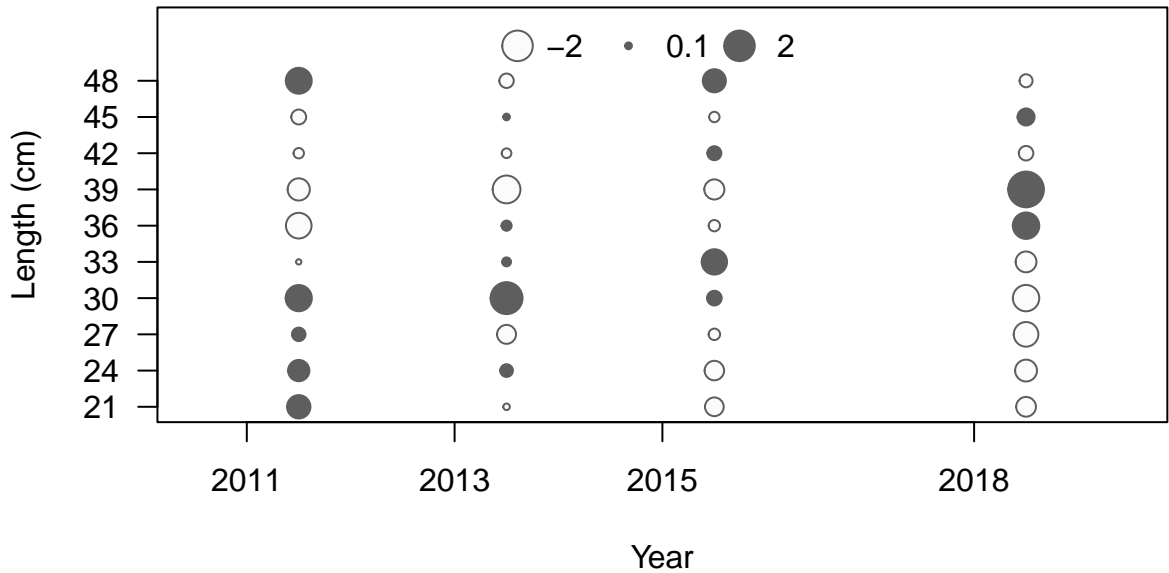




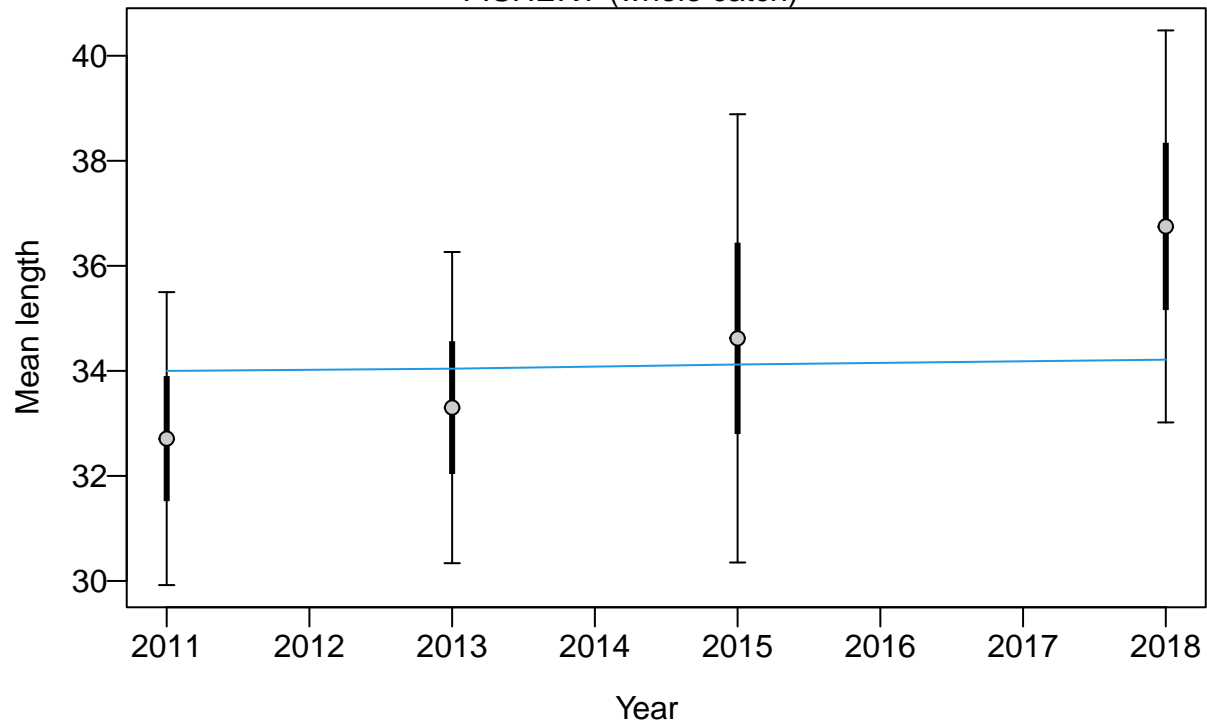


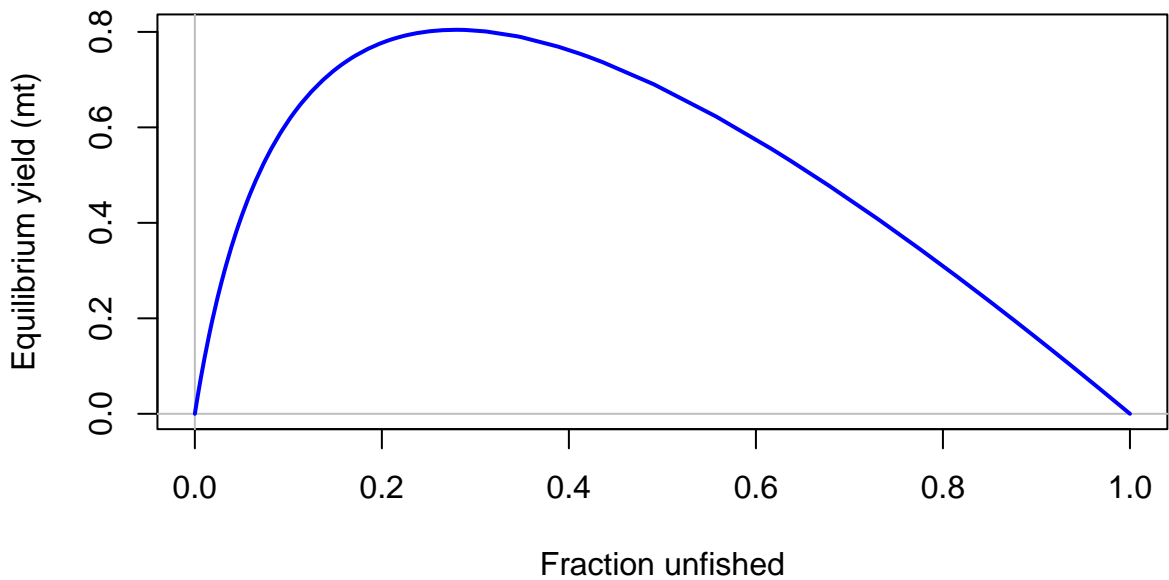


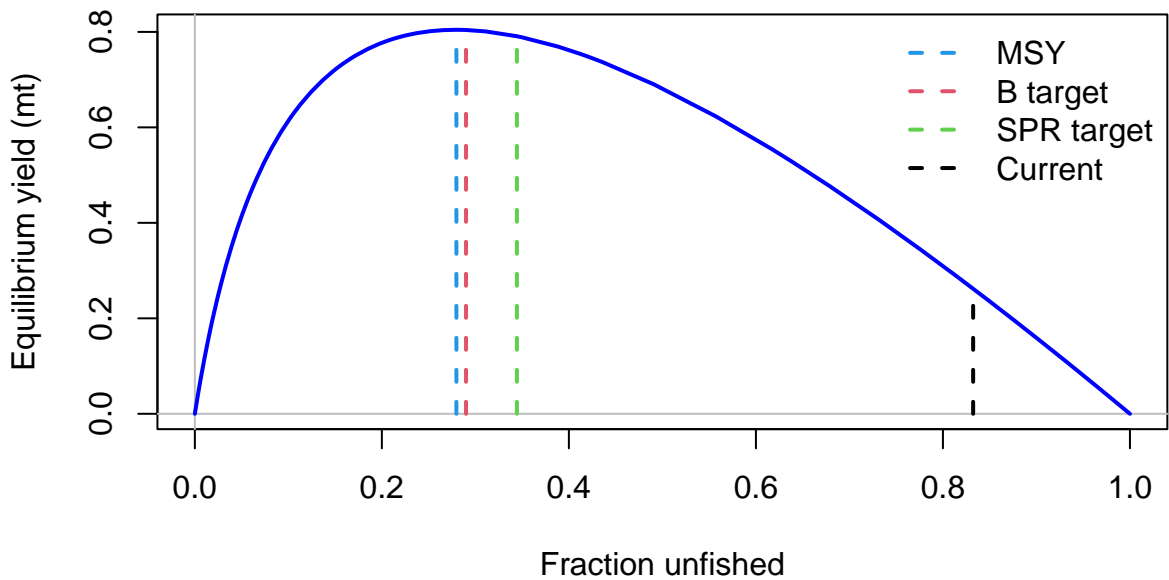
Length (cm)

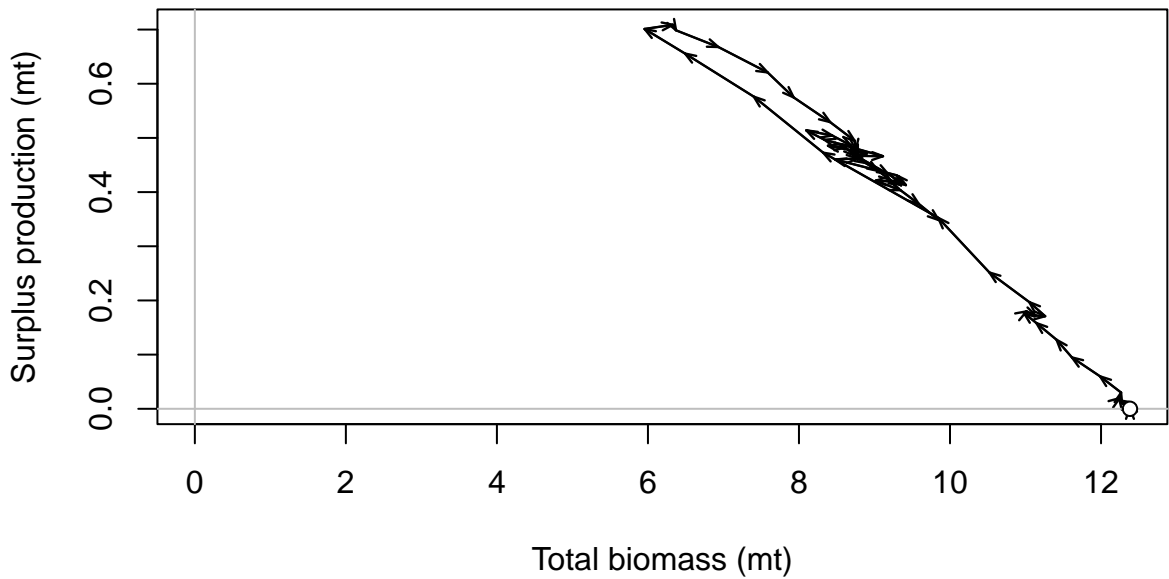


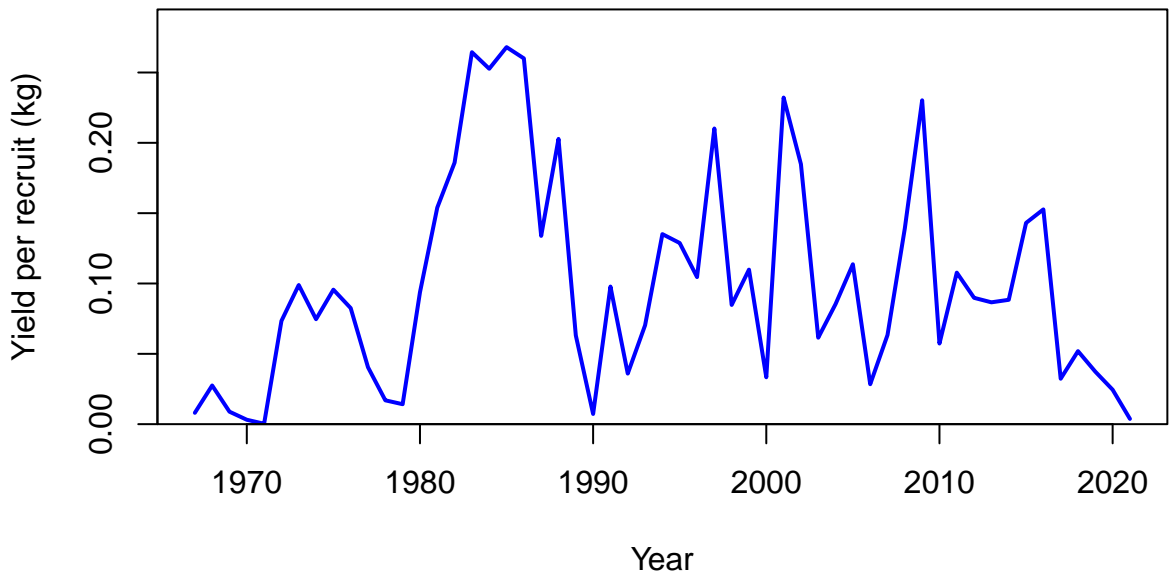
FISHERY (whole catch)

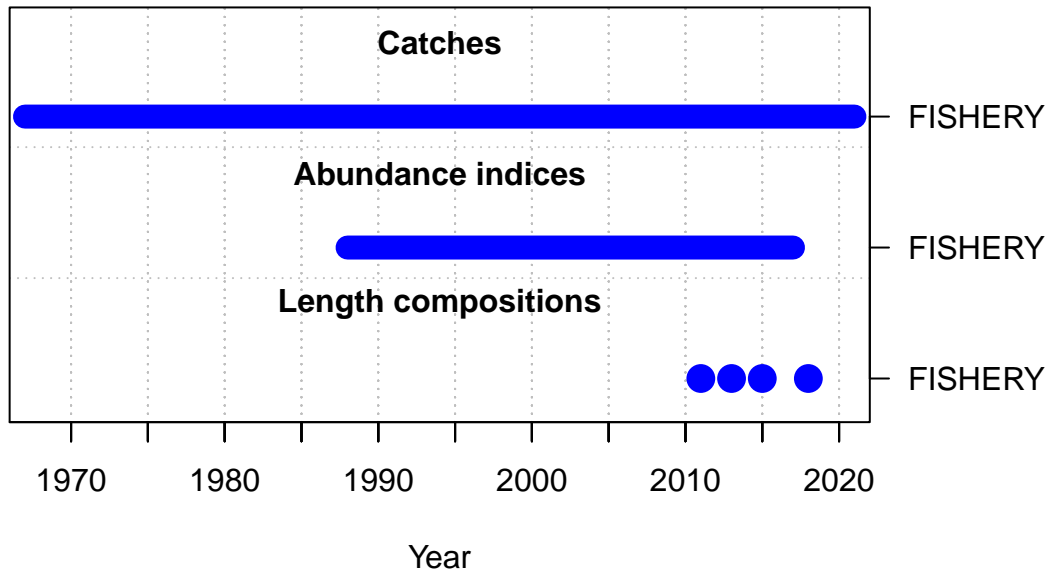


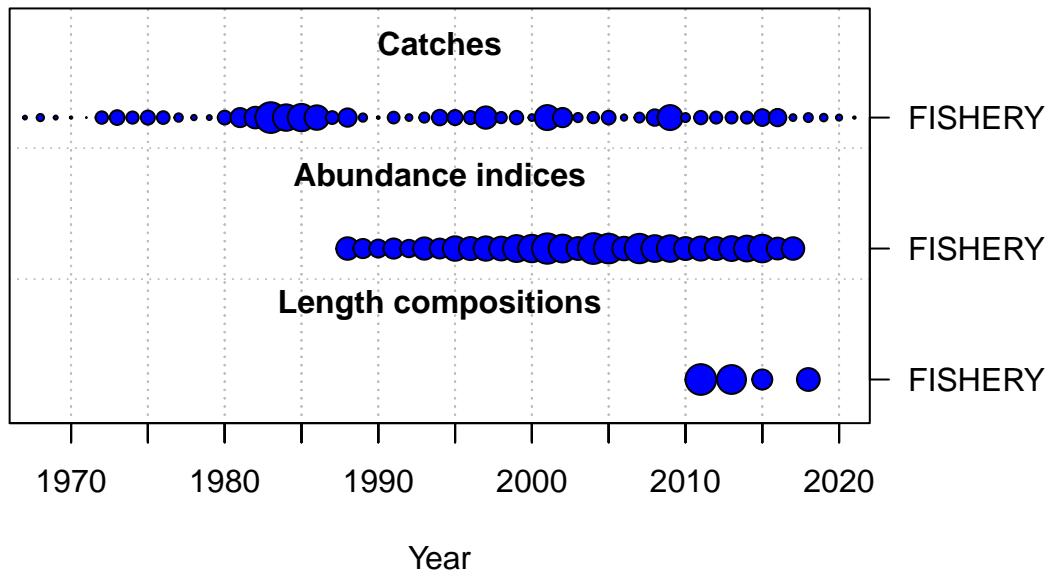




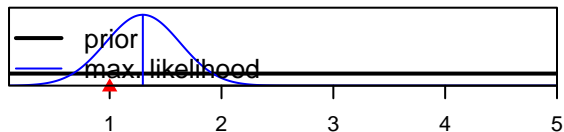




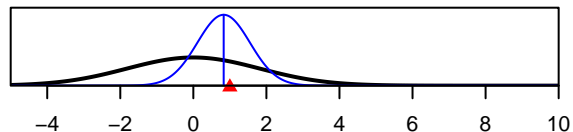




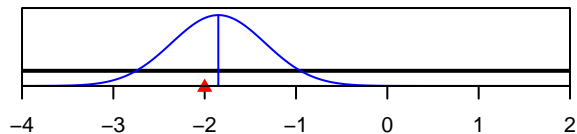
SR_LN(R0)



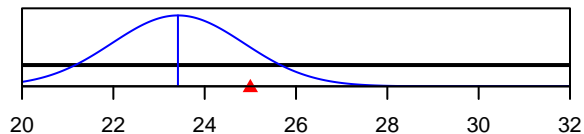
ln(DM_theta)_1



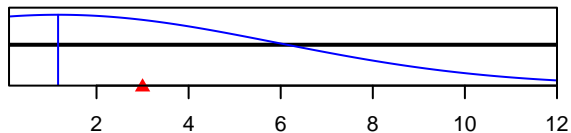
LnQ_base_FISHERY(1)



Size_inflection_FISHERY(1)



Size_95%width_FISHERY(1)



Parameter value