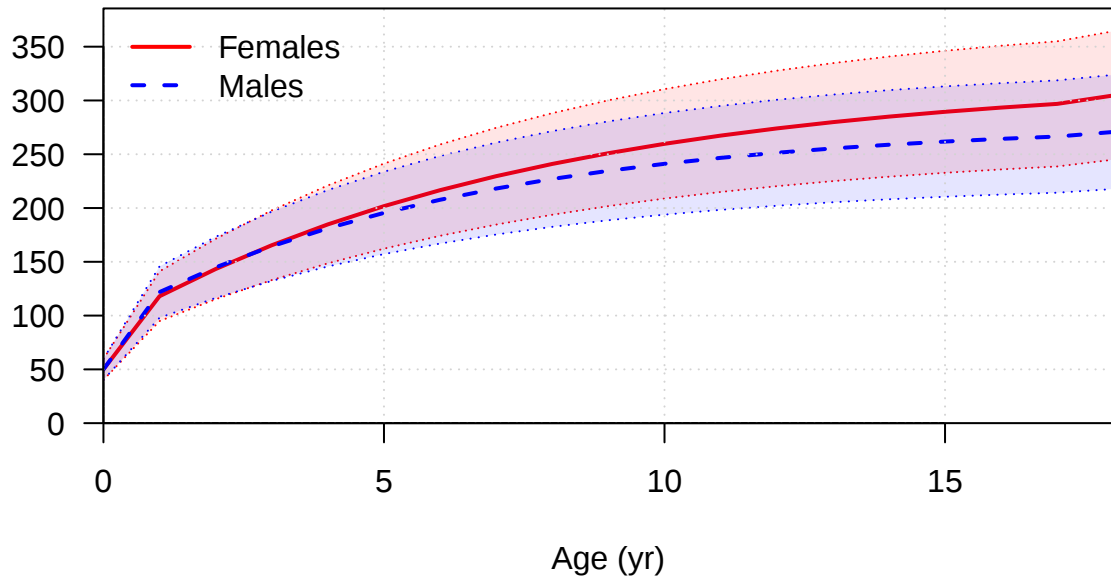
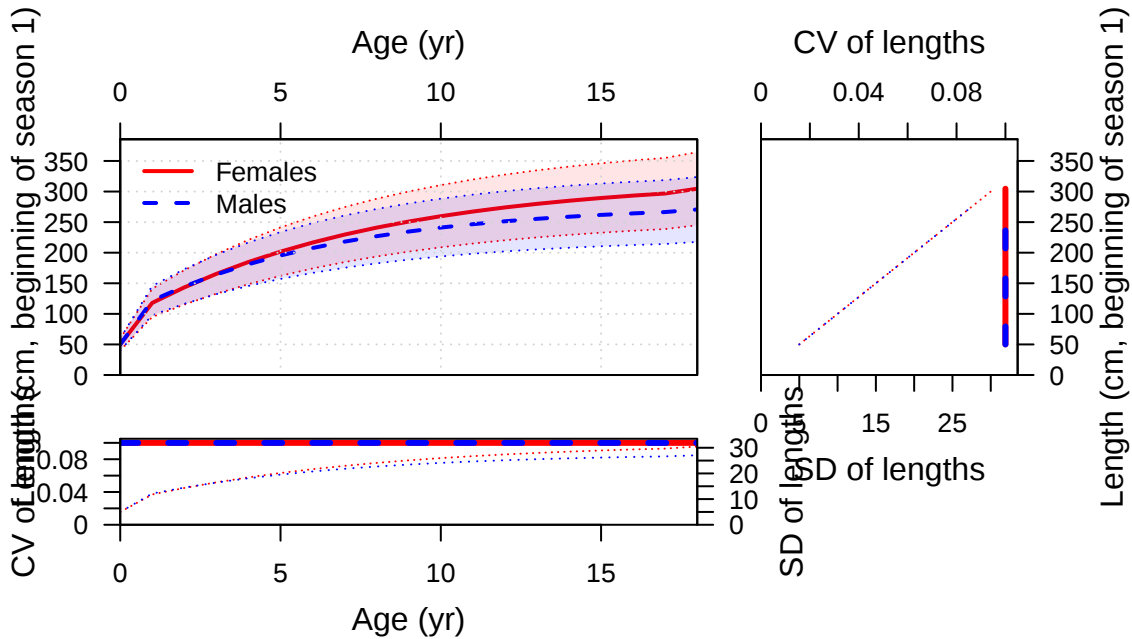
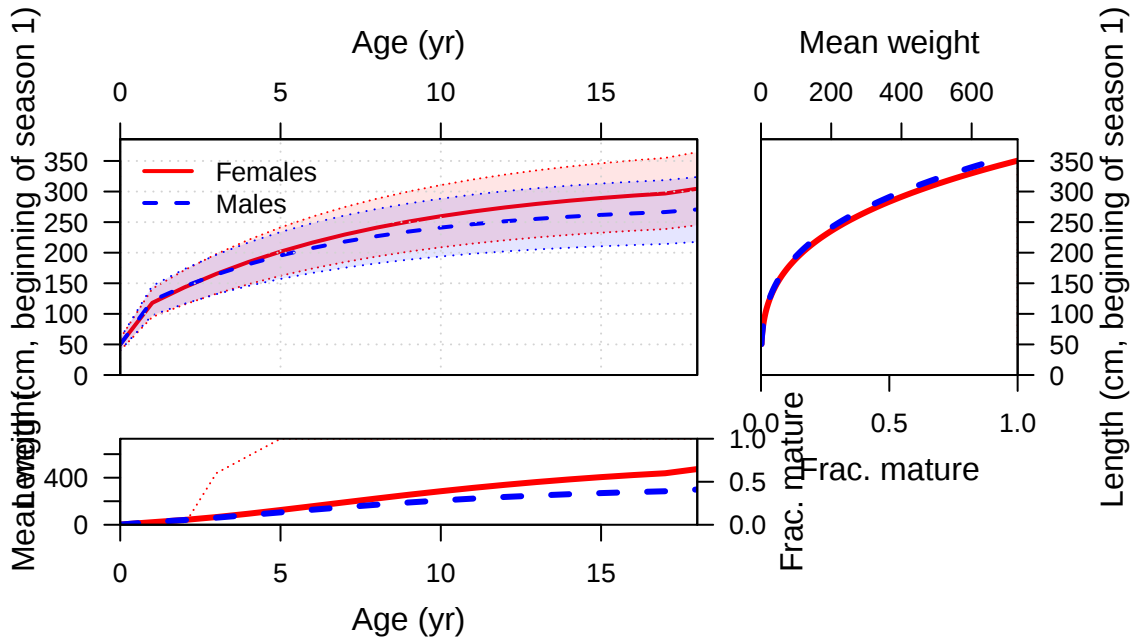


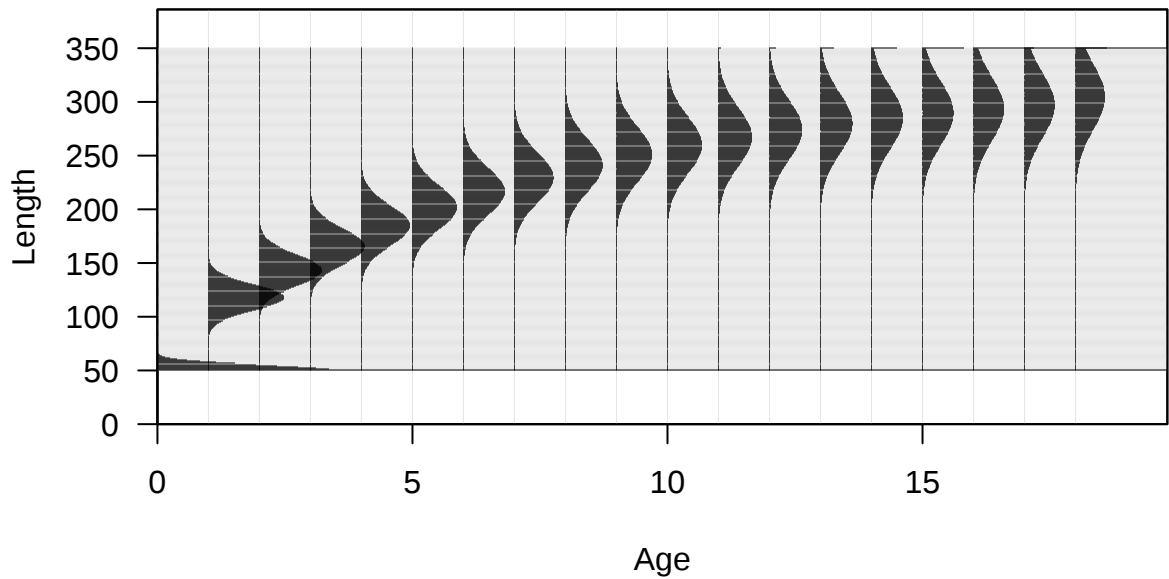
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StartTime: Thu Jul 07 16:22:40 2022
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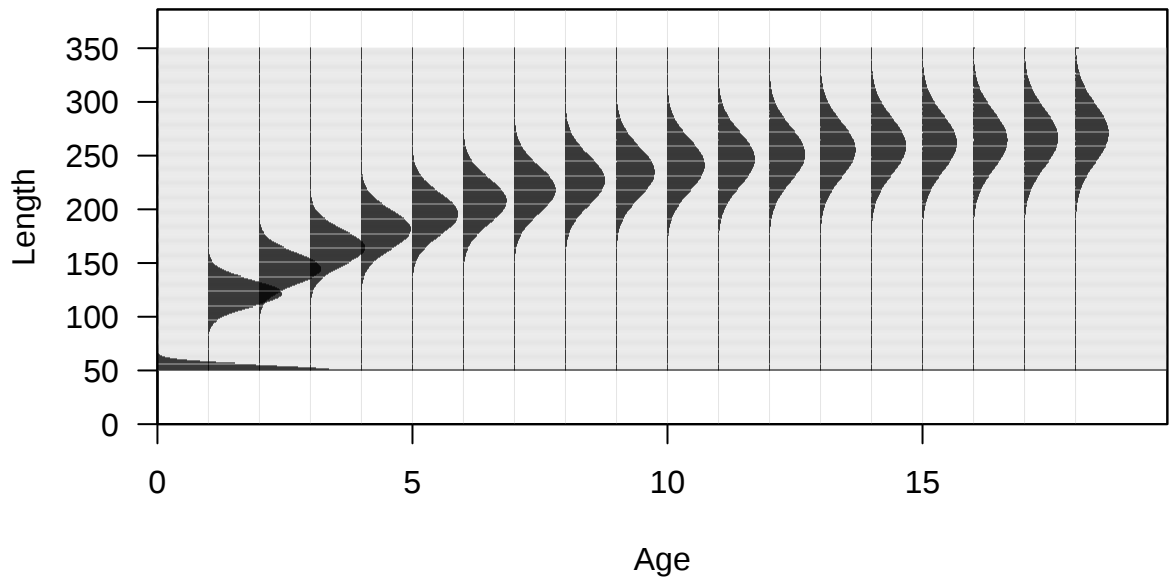
Length (cm, beginning of season 1)

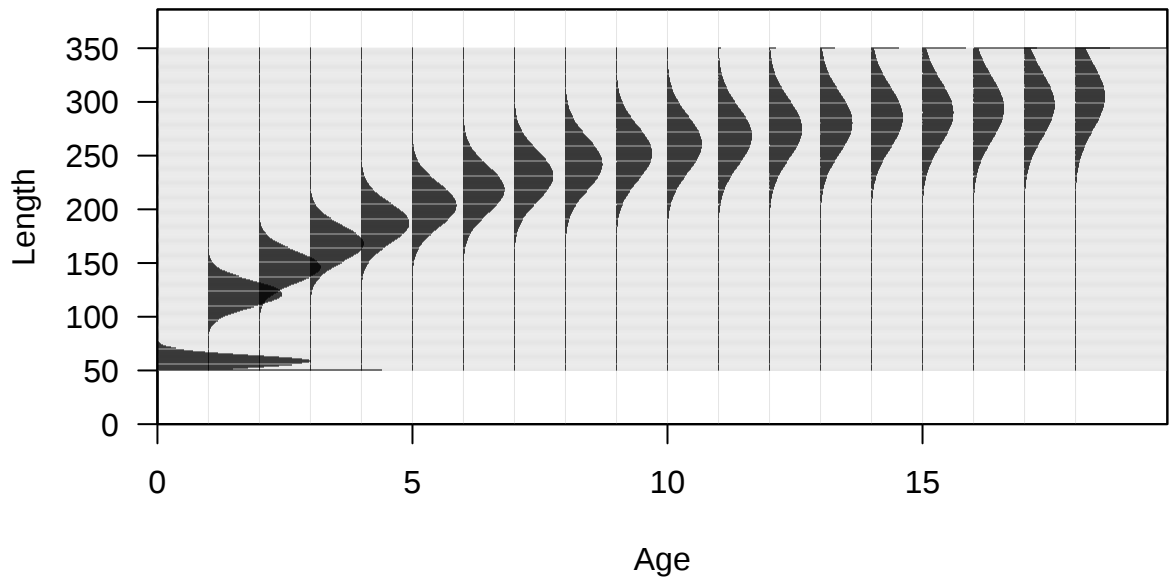


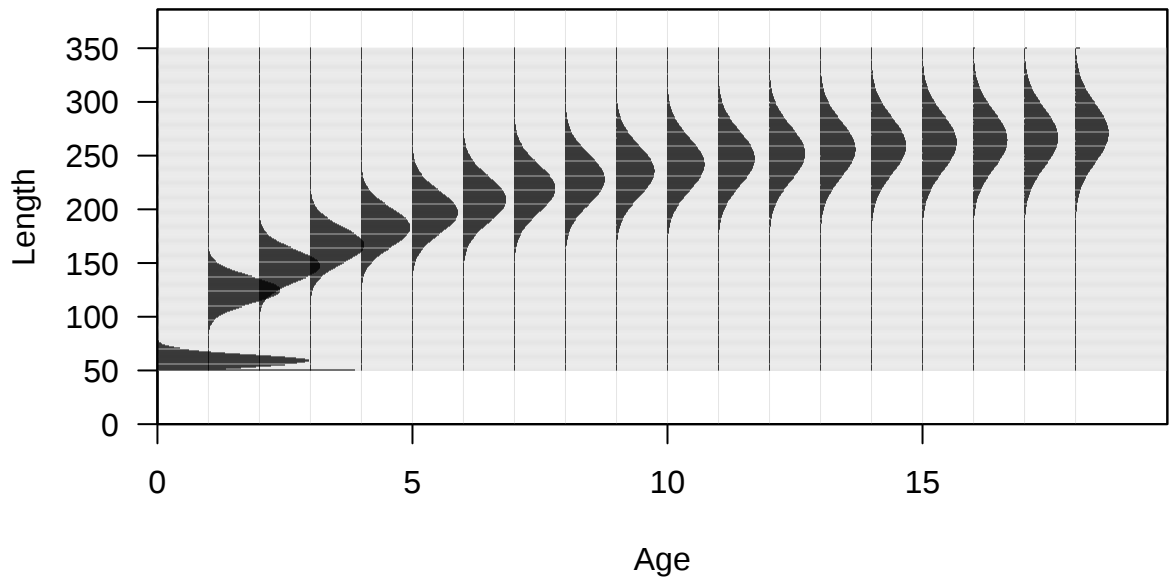


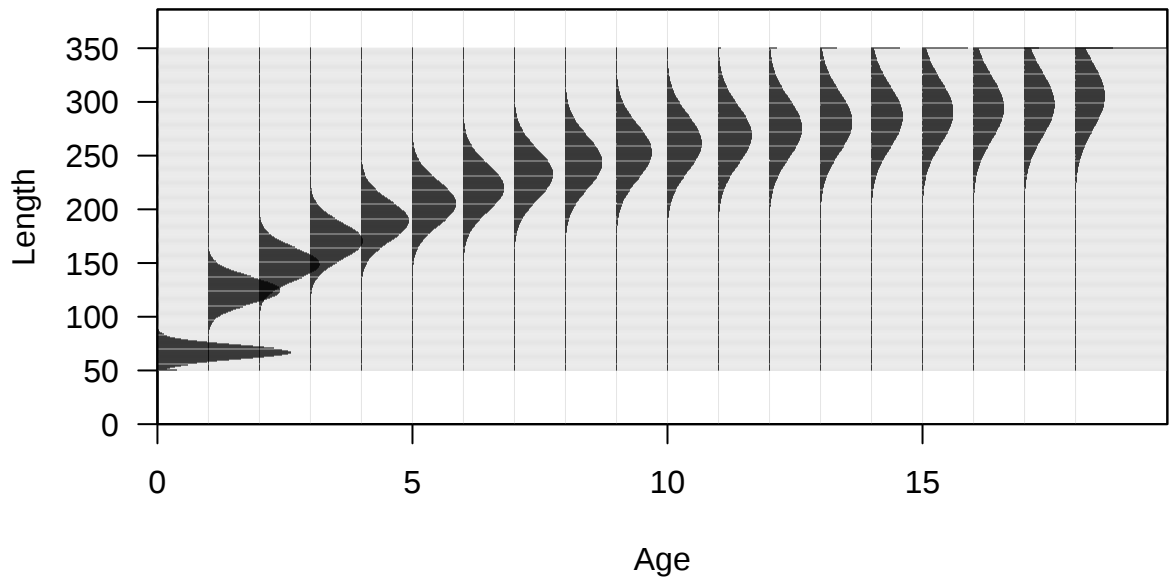


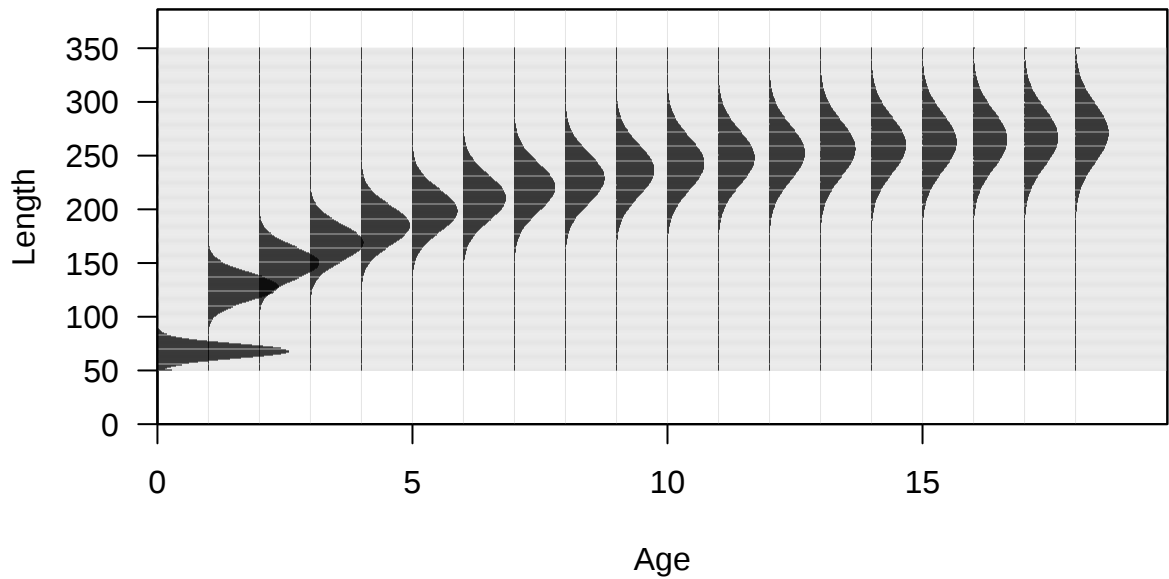


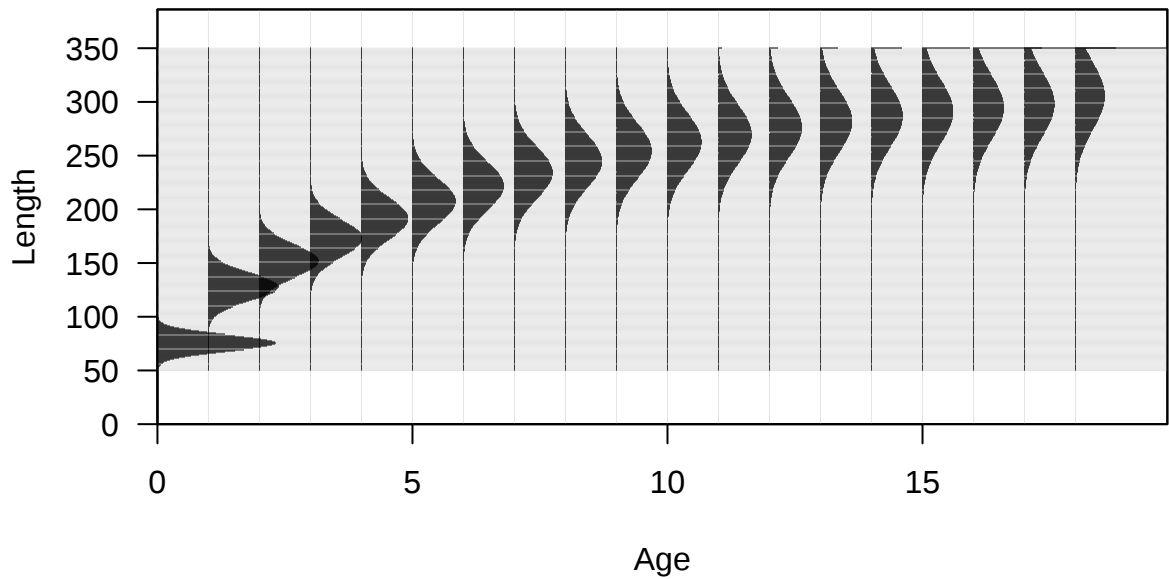


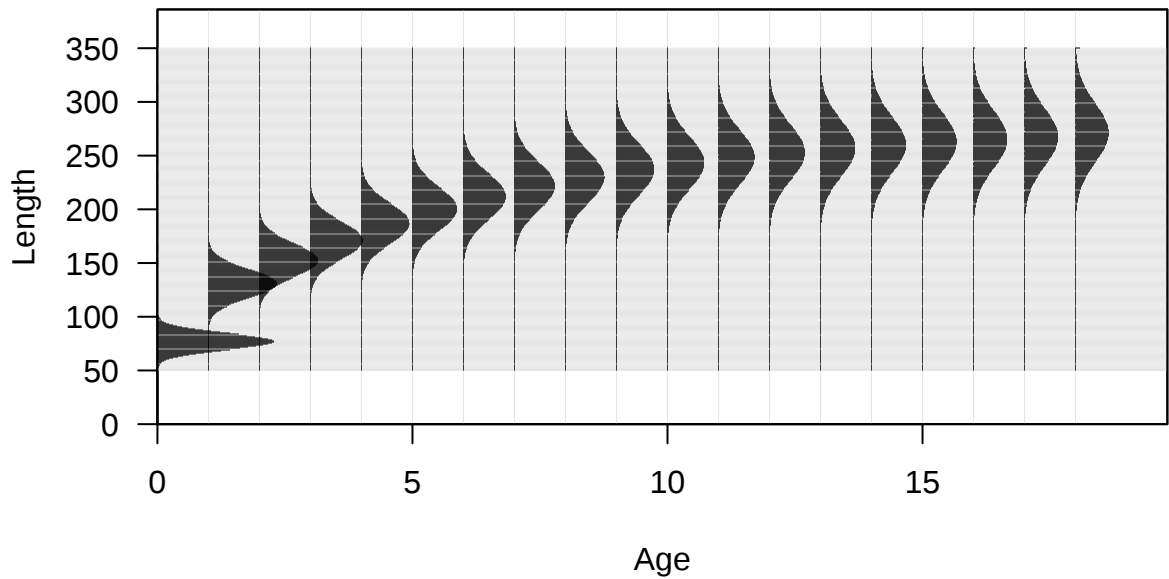


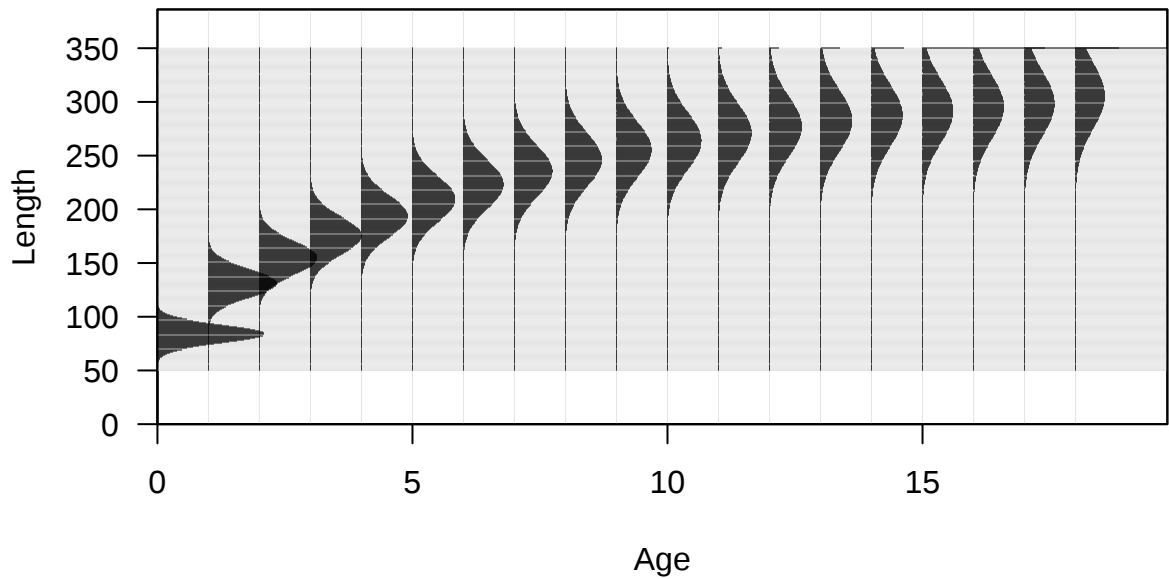


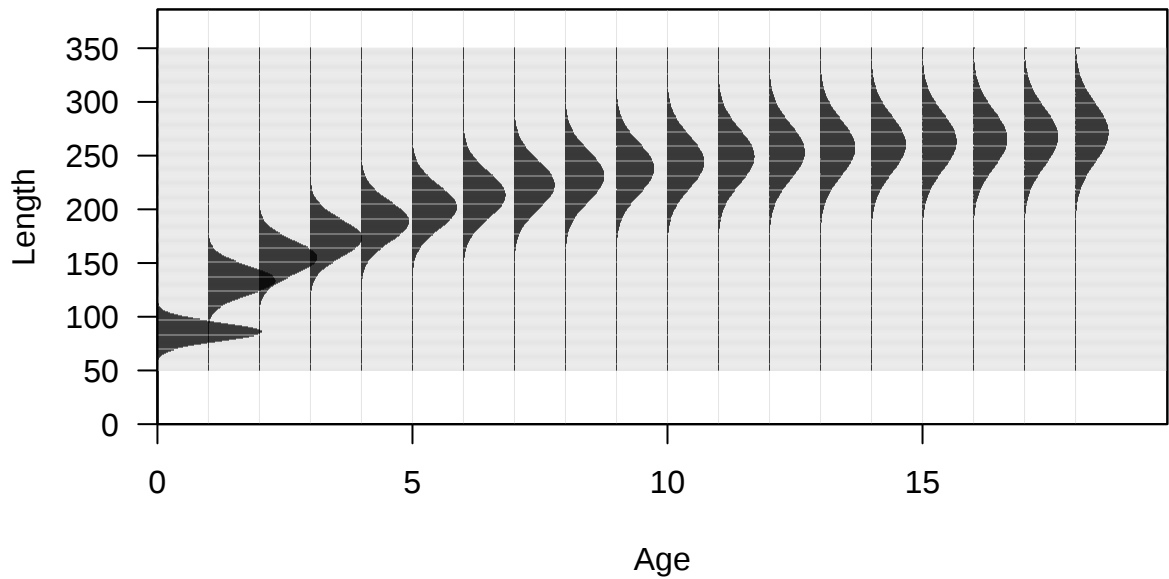


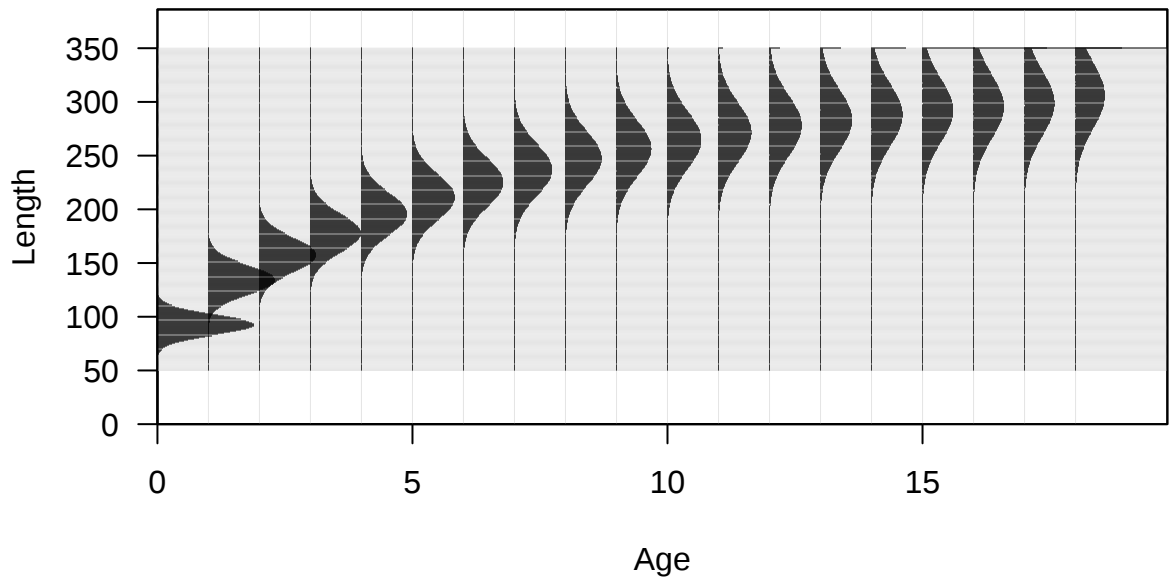


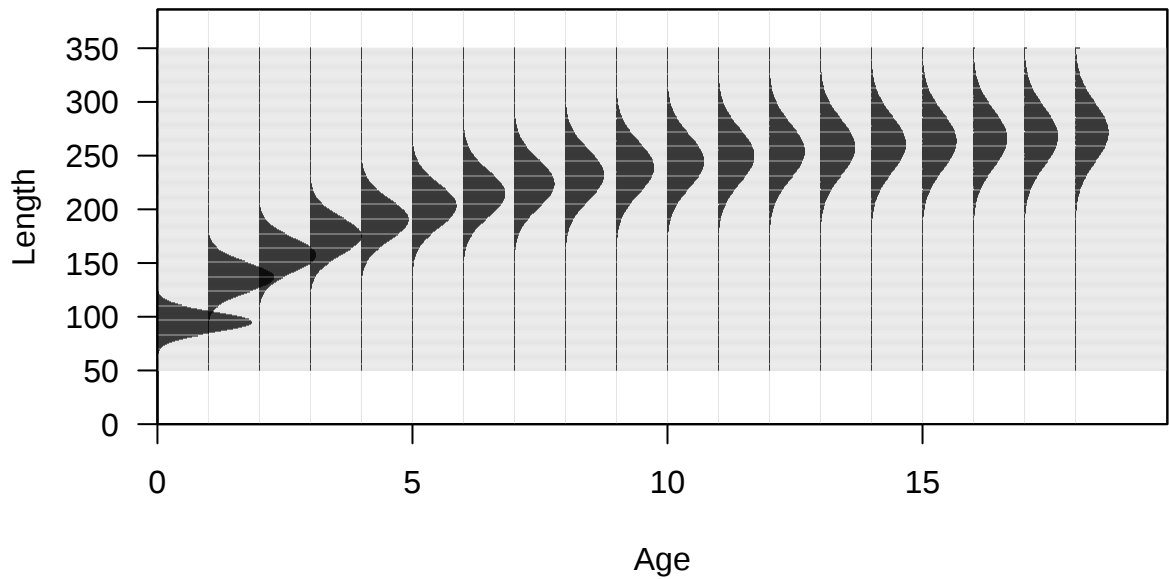


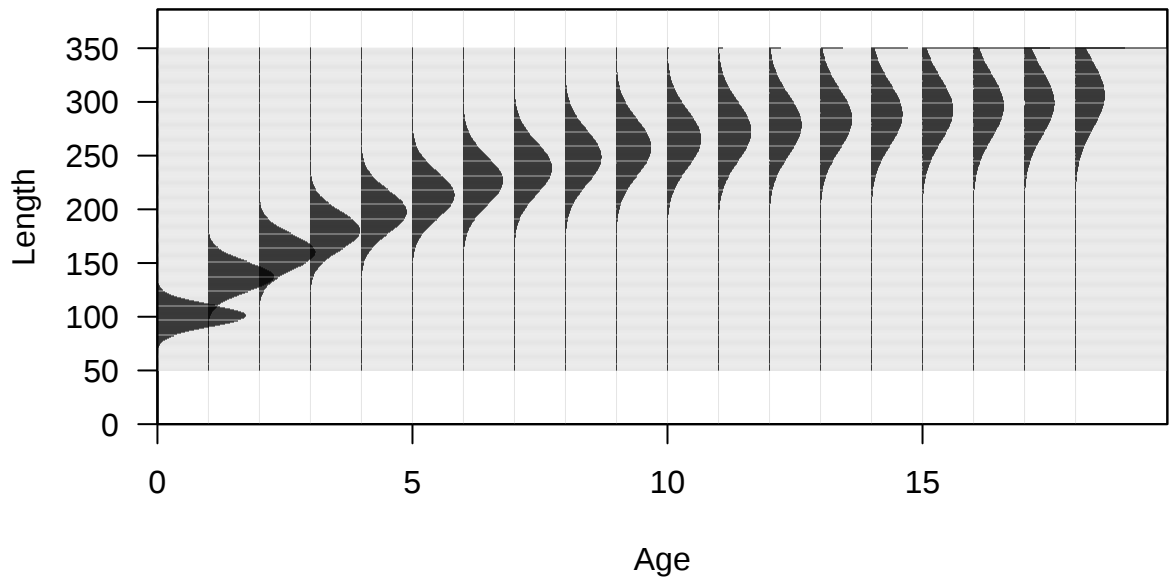


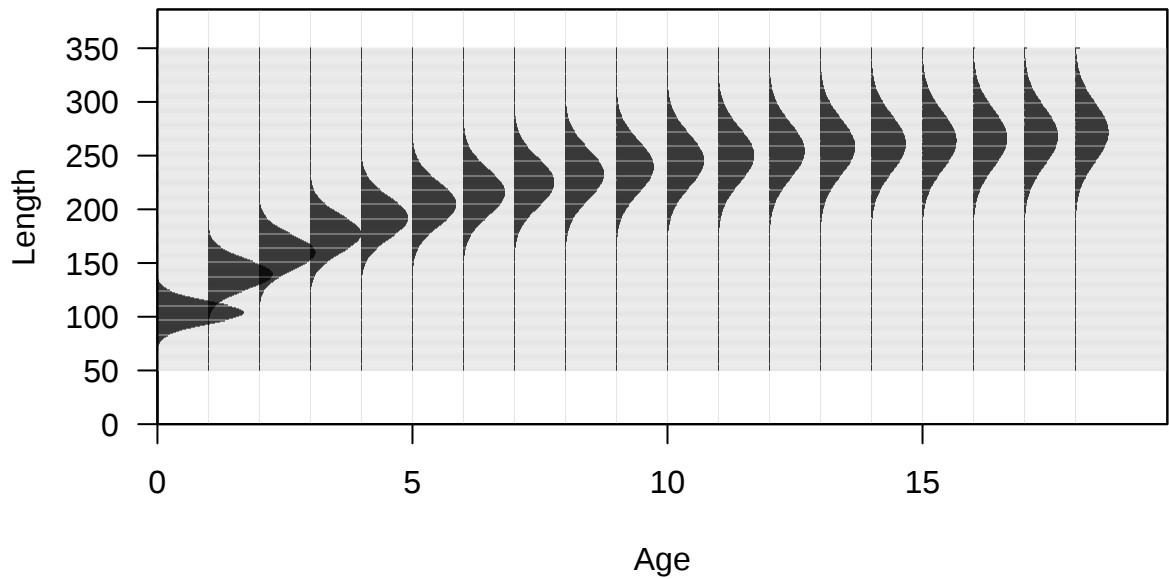


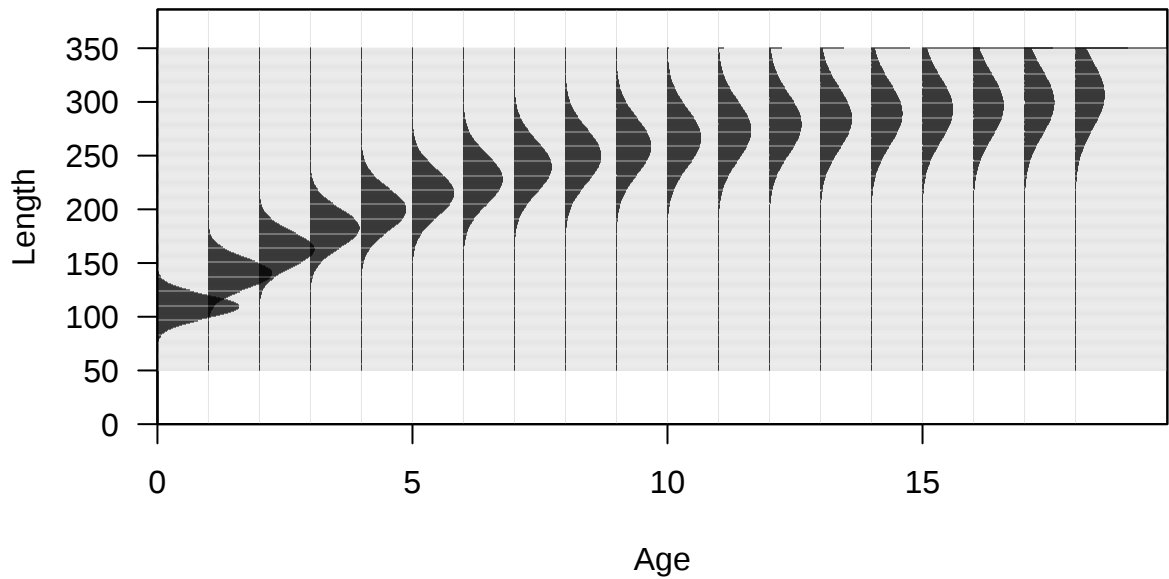


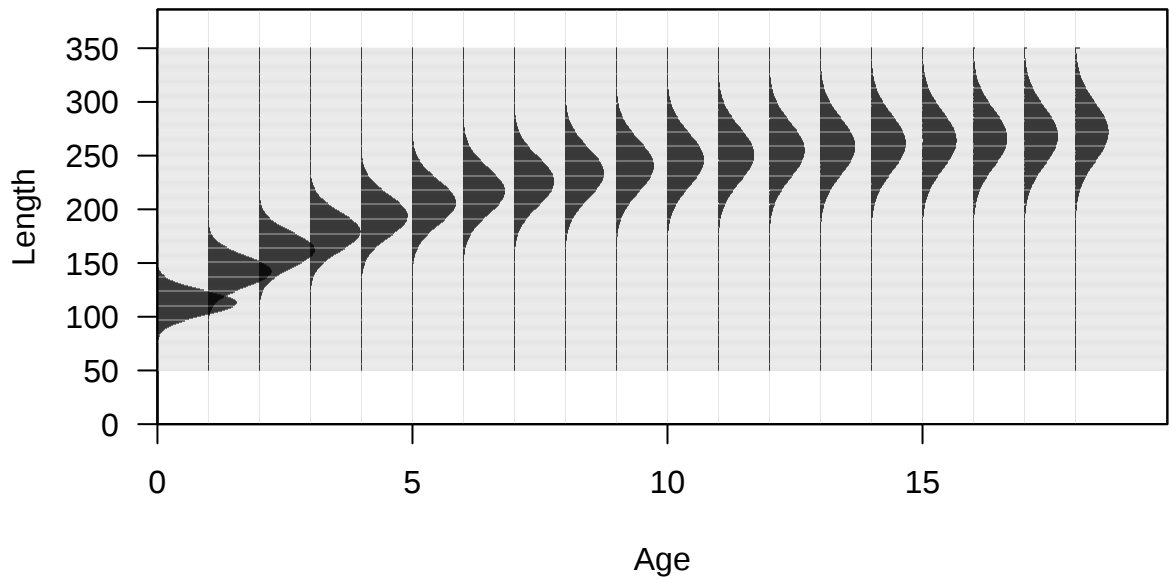


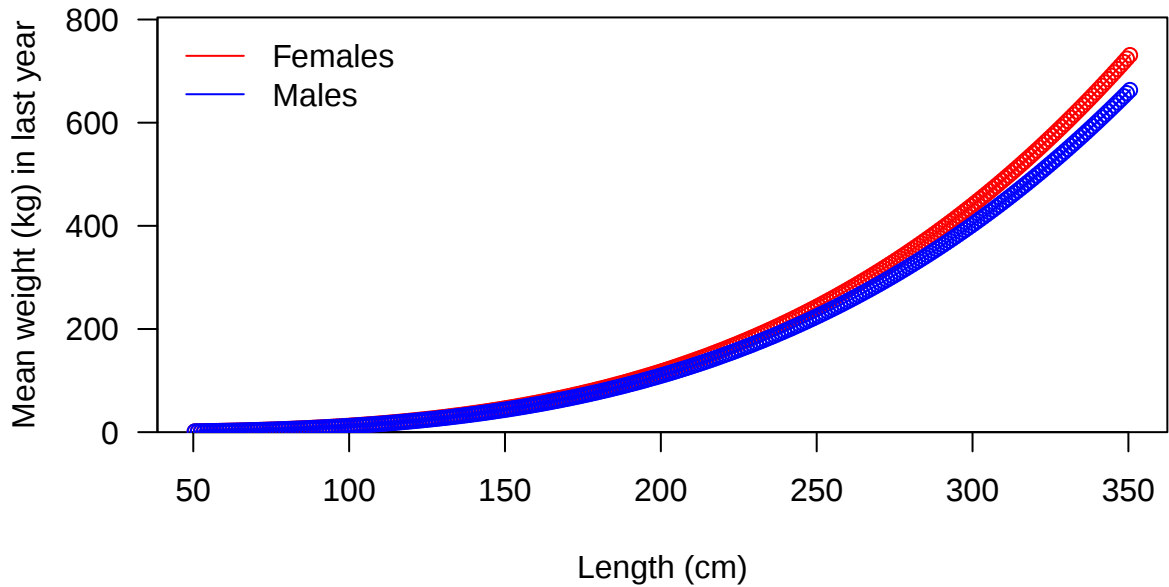


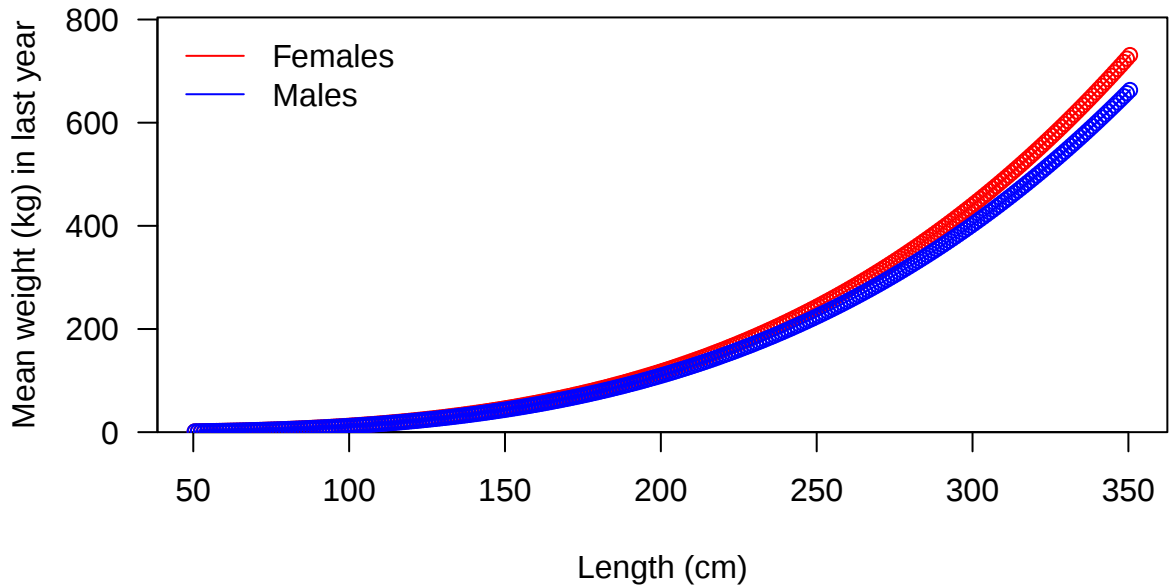


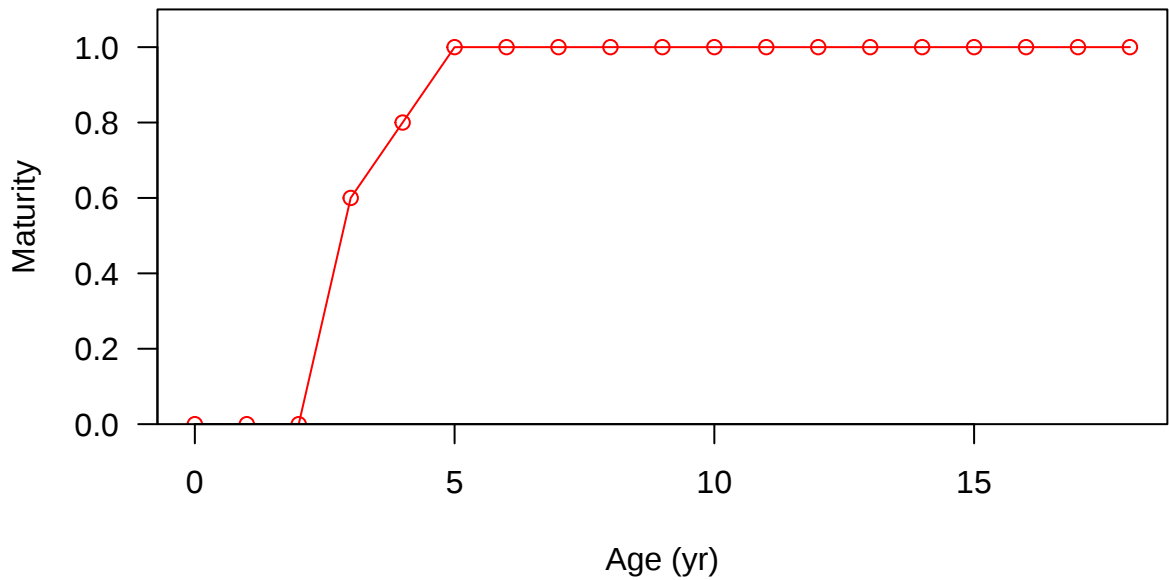


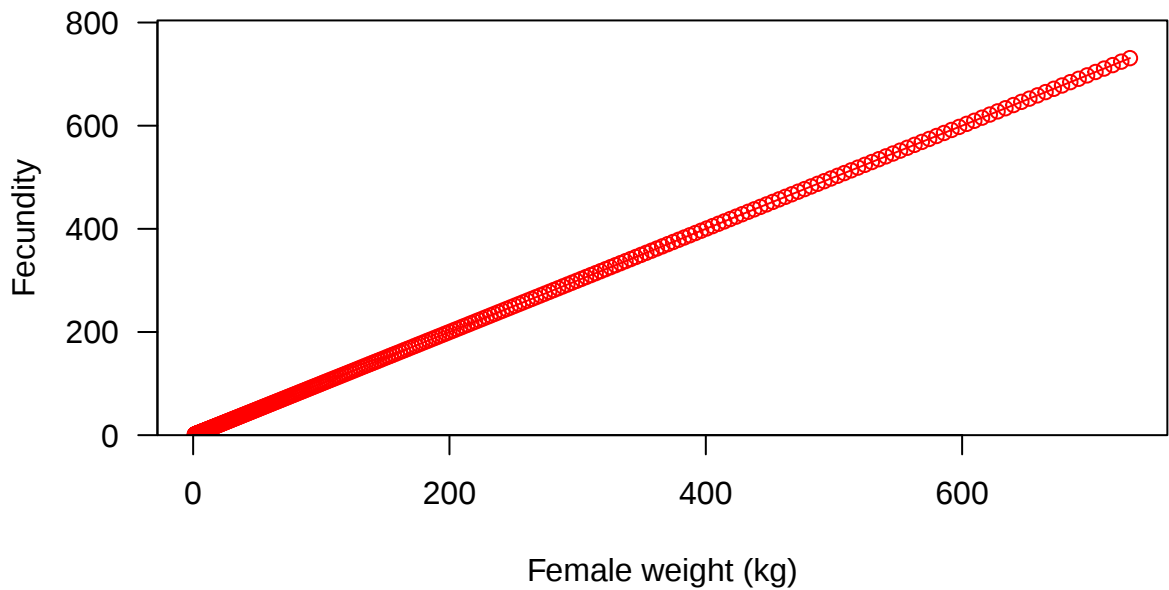


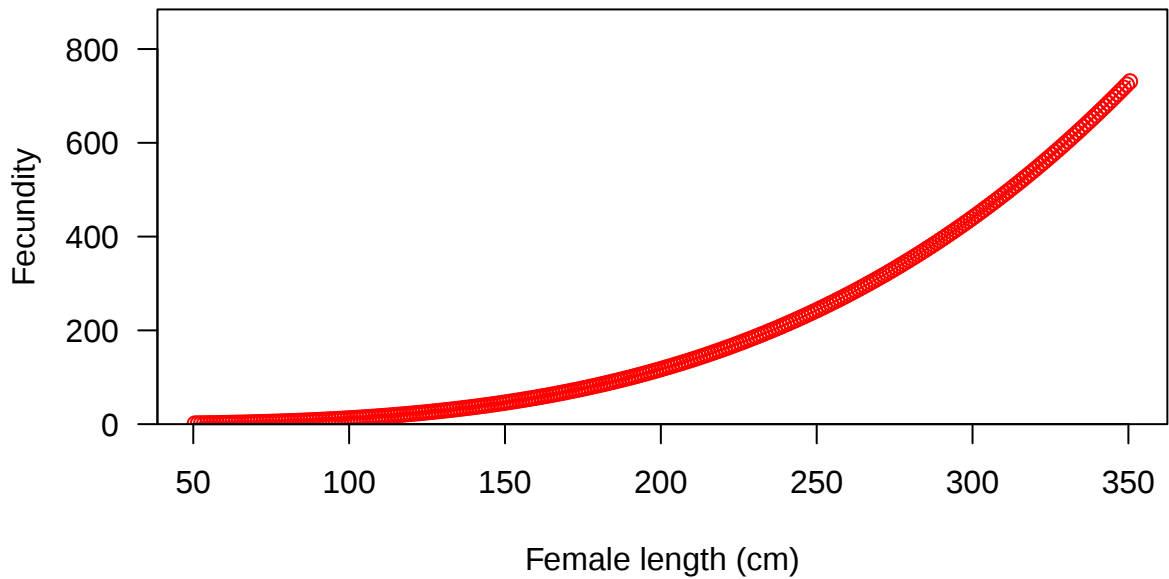


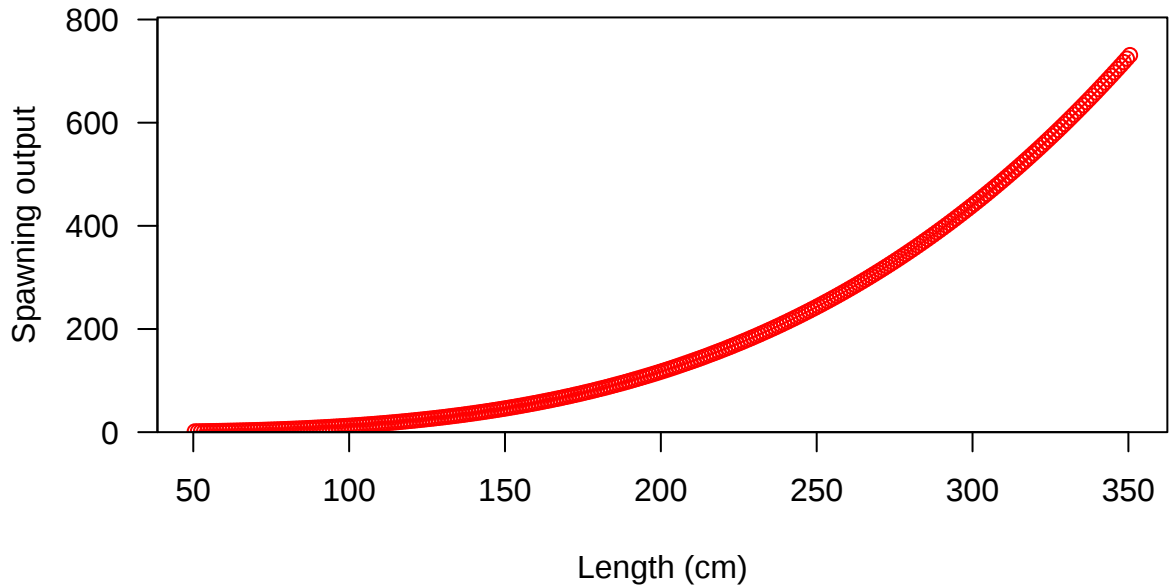


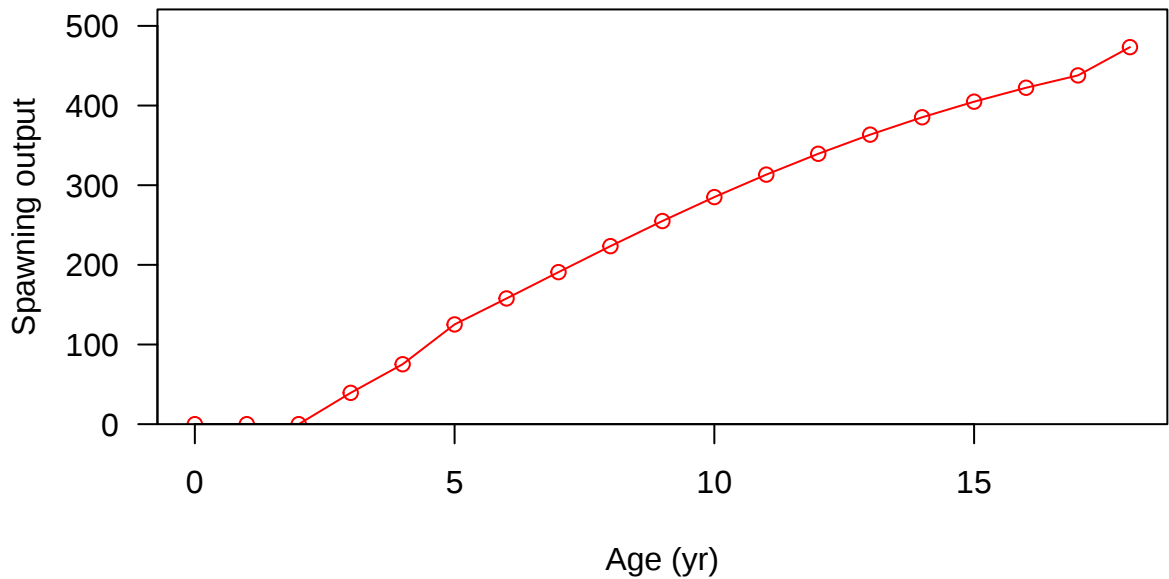




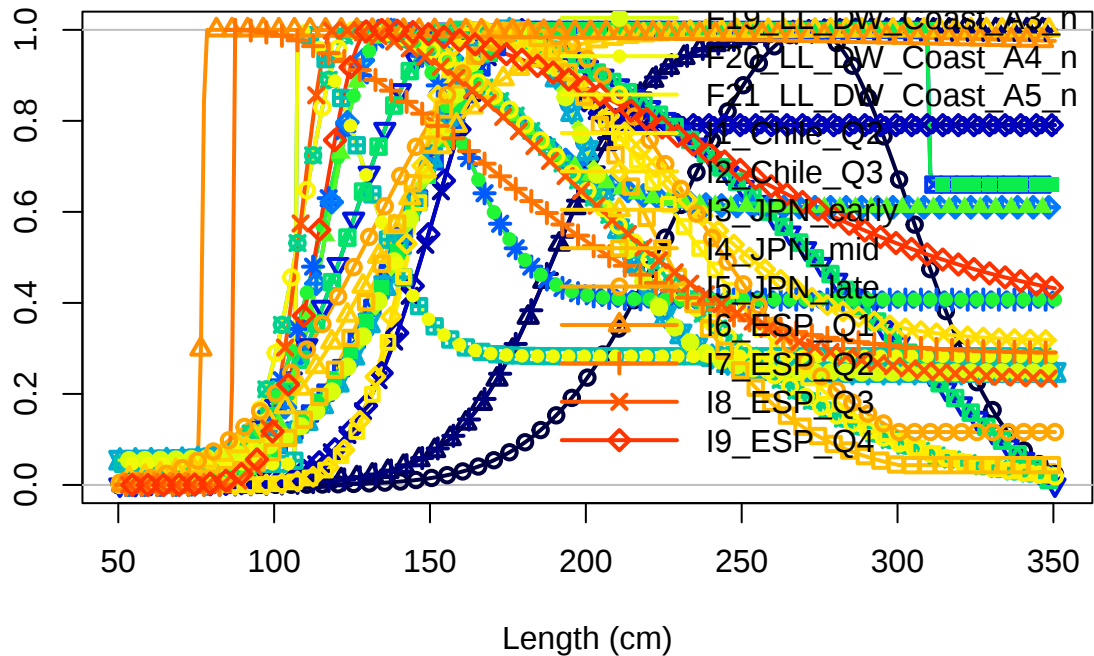




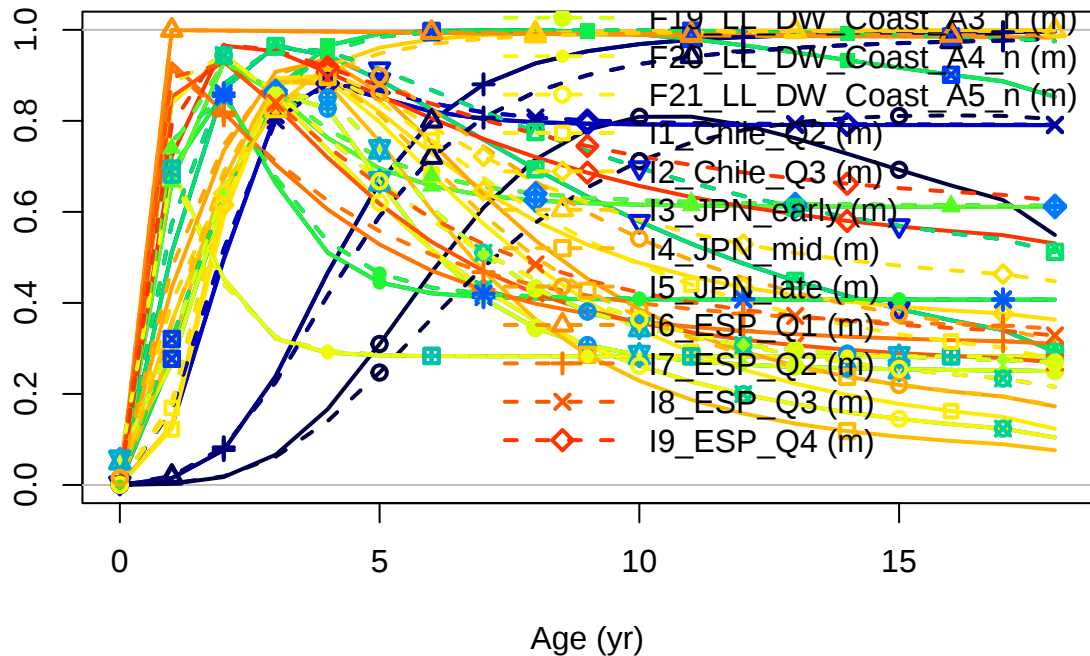




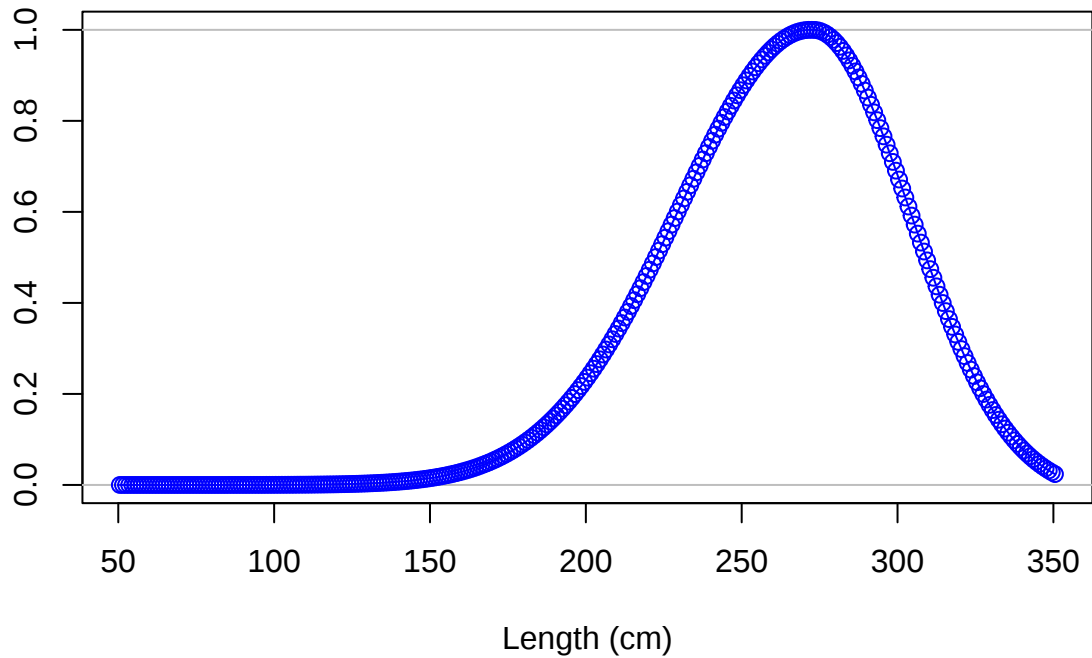
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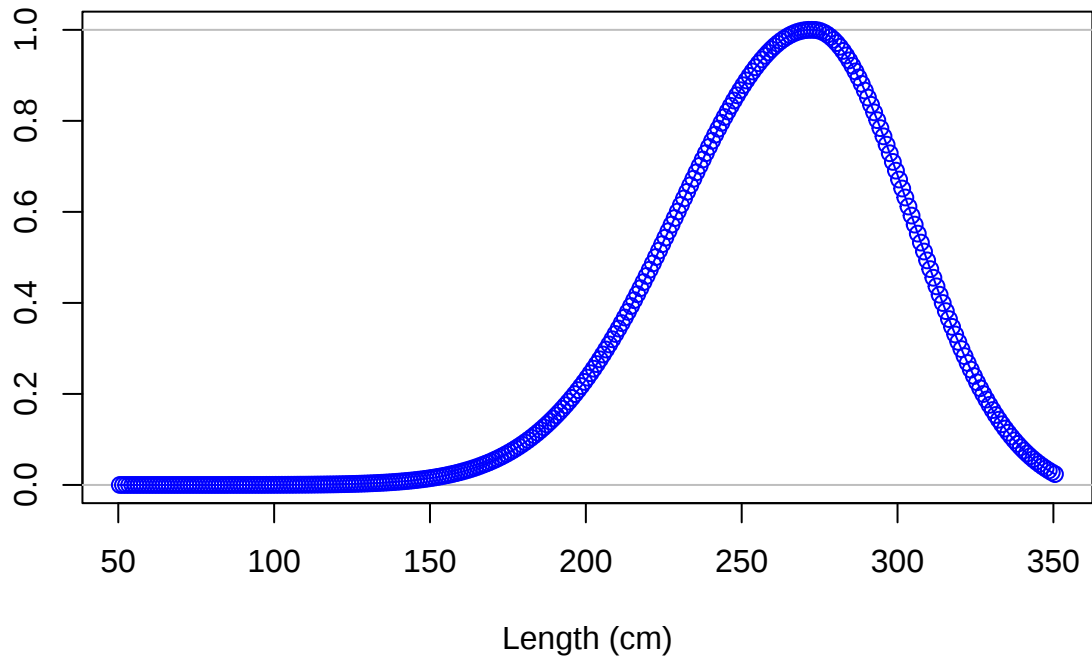
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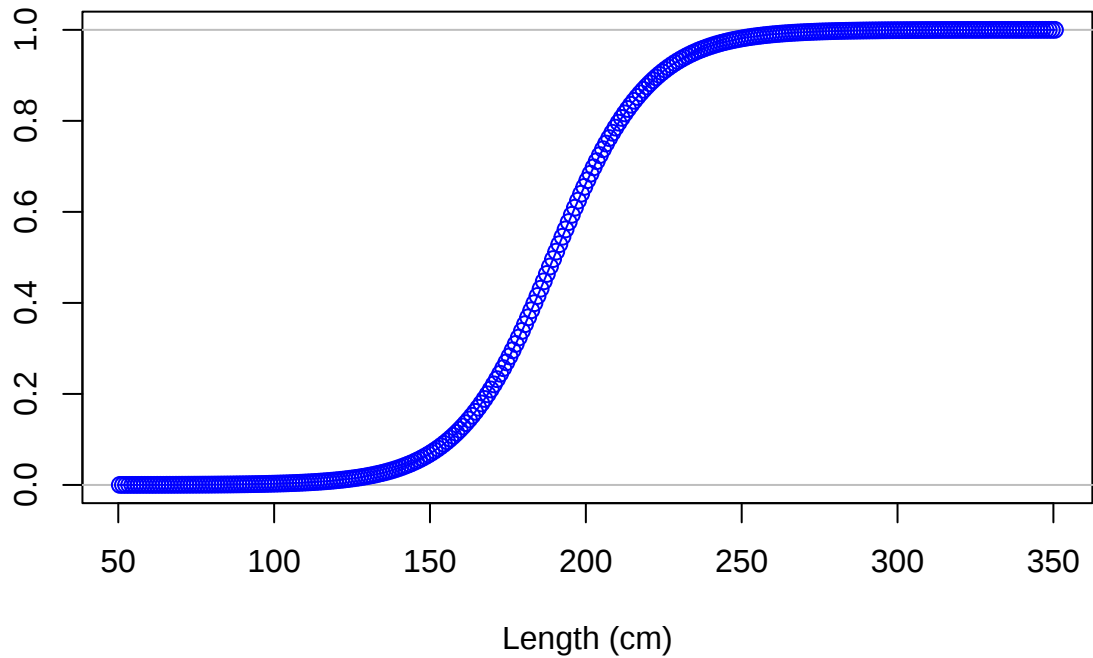
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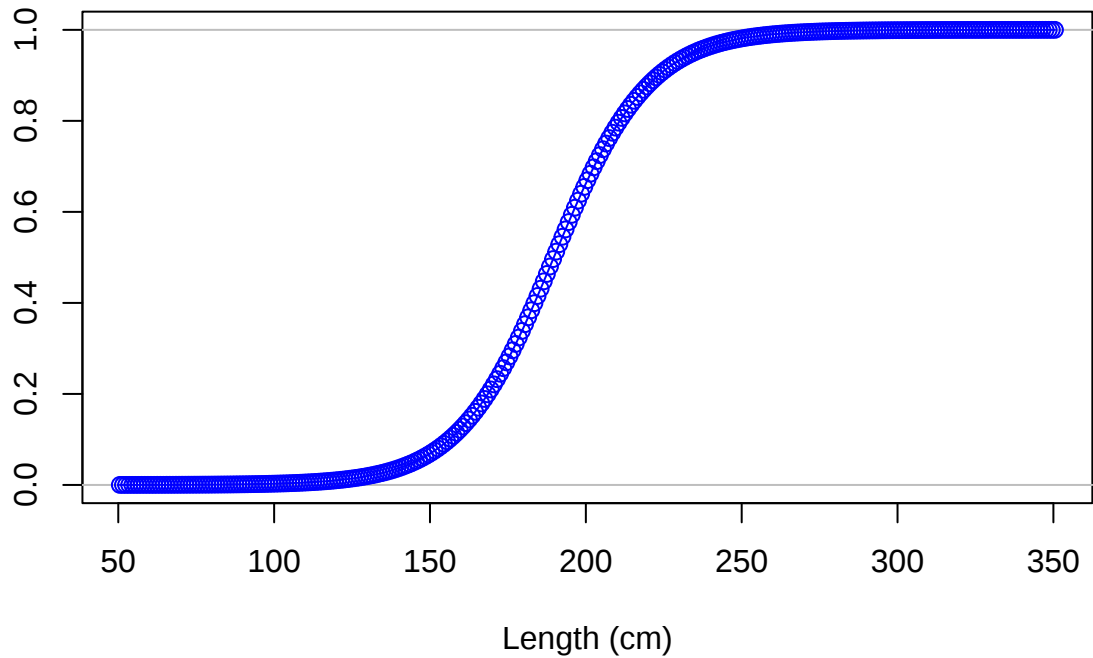
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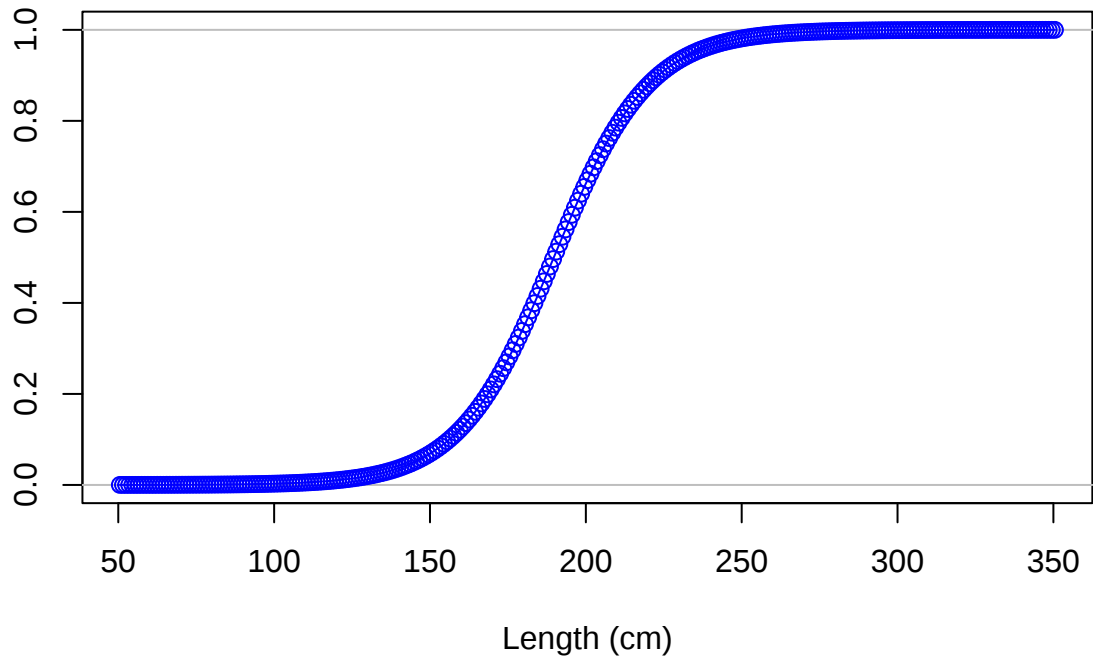
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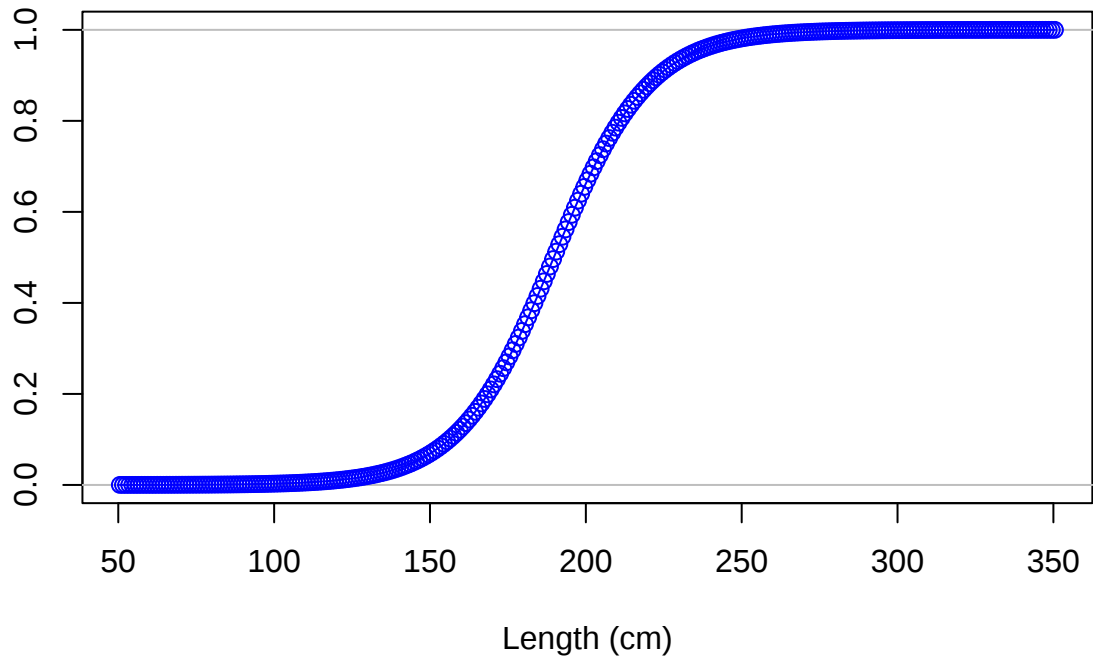
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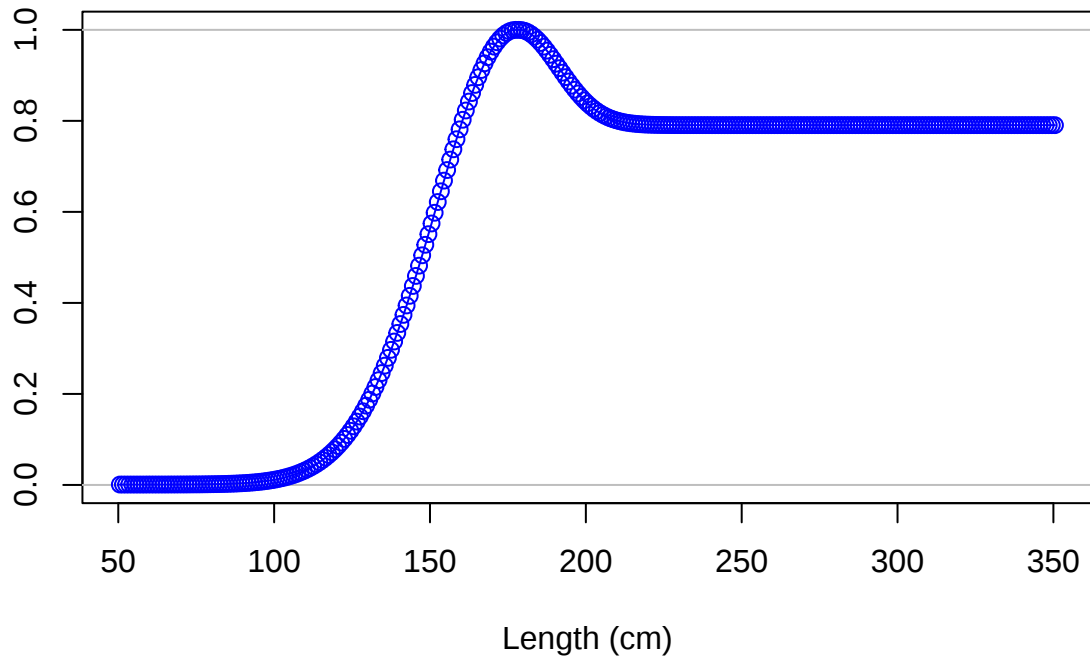
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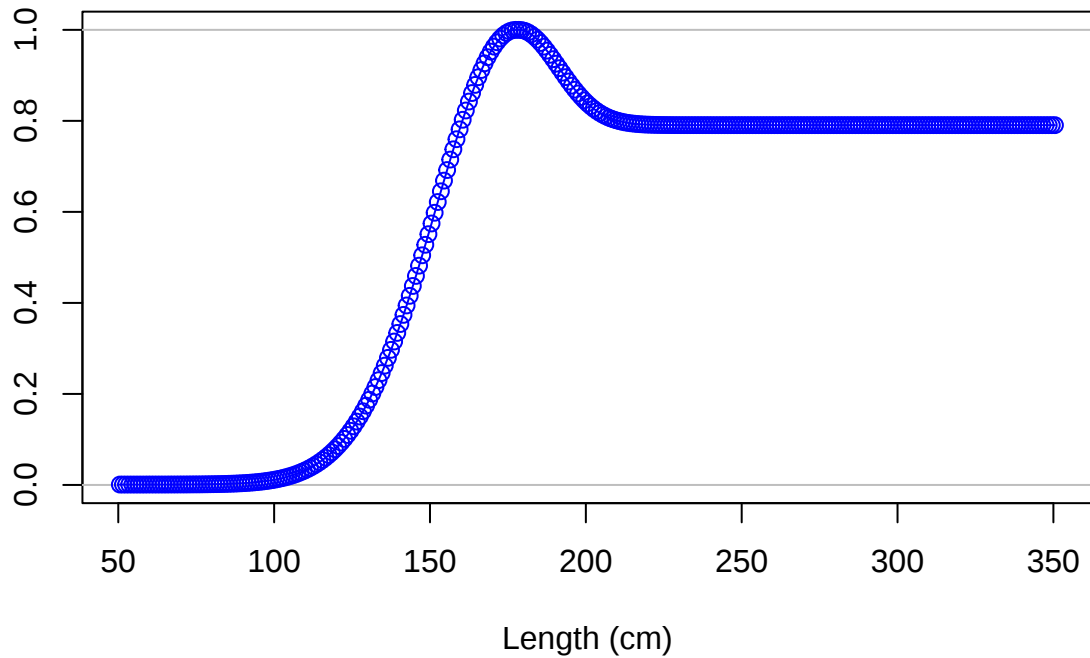
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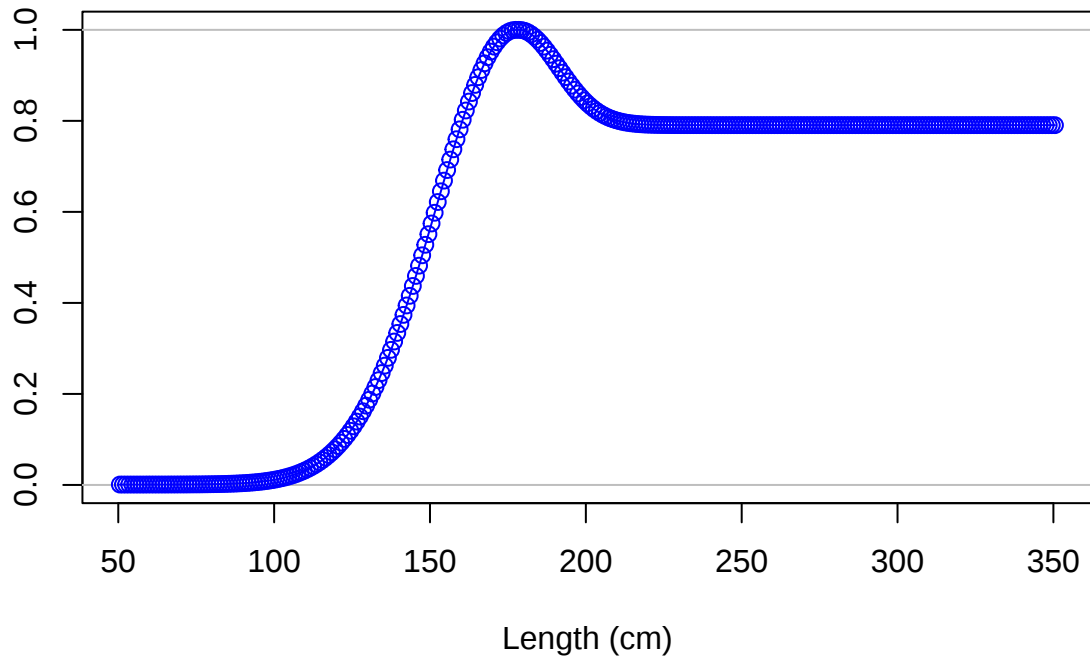
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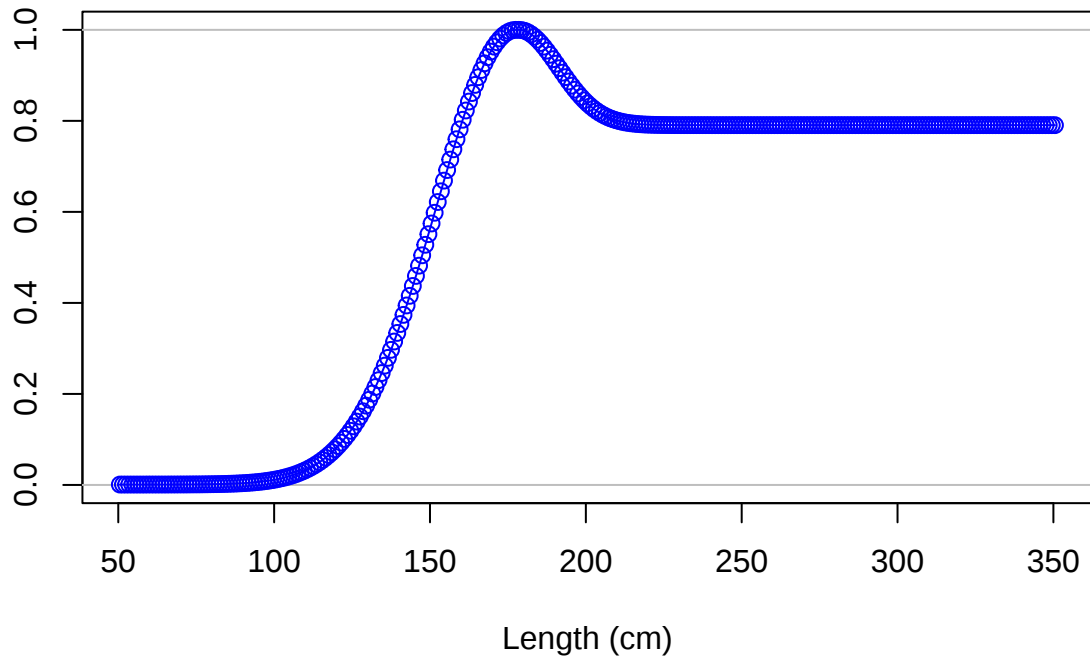
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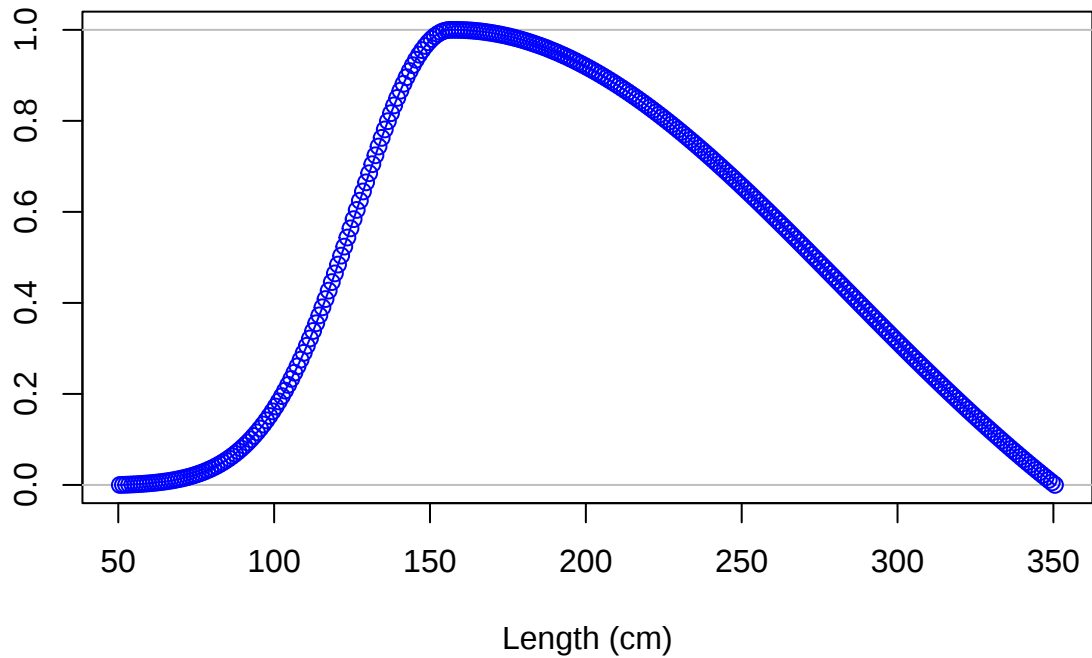
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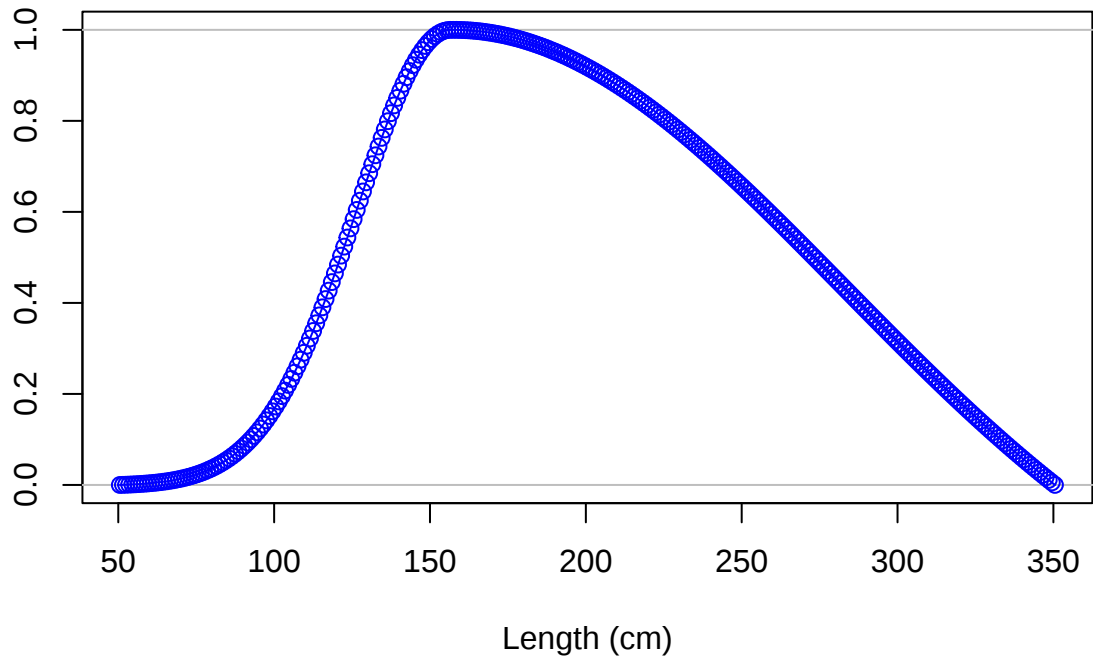
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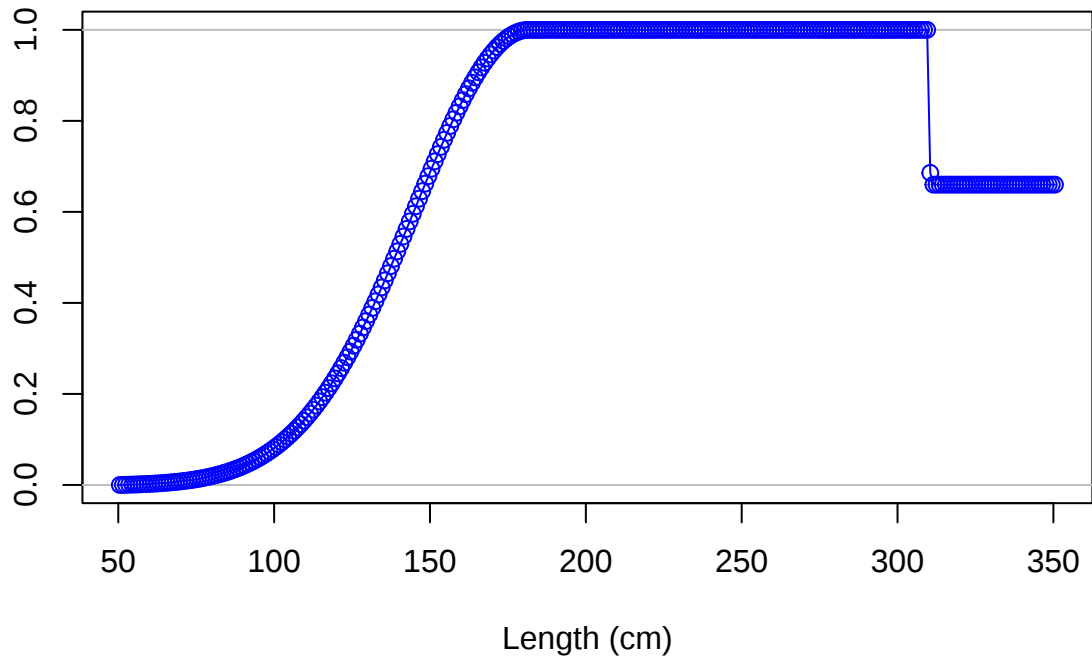
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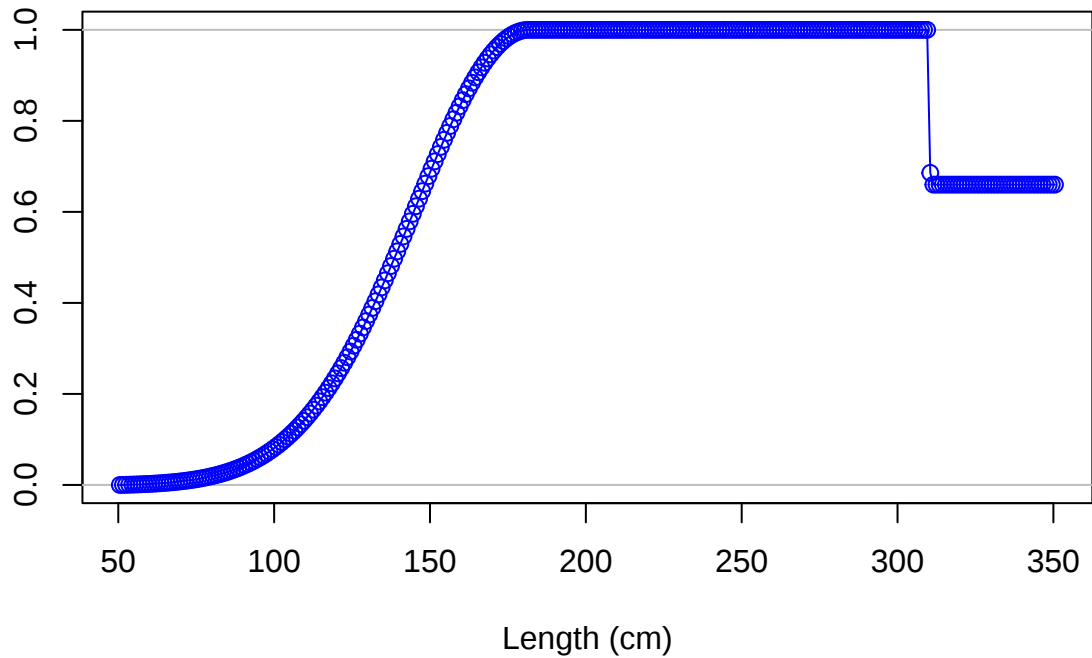
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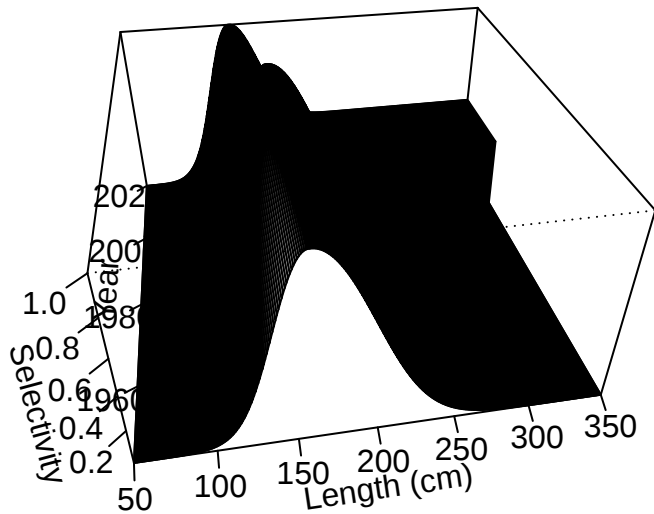


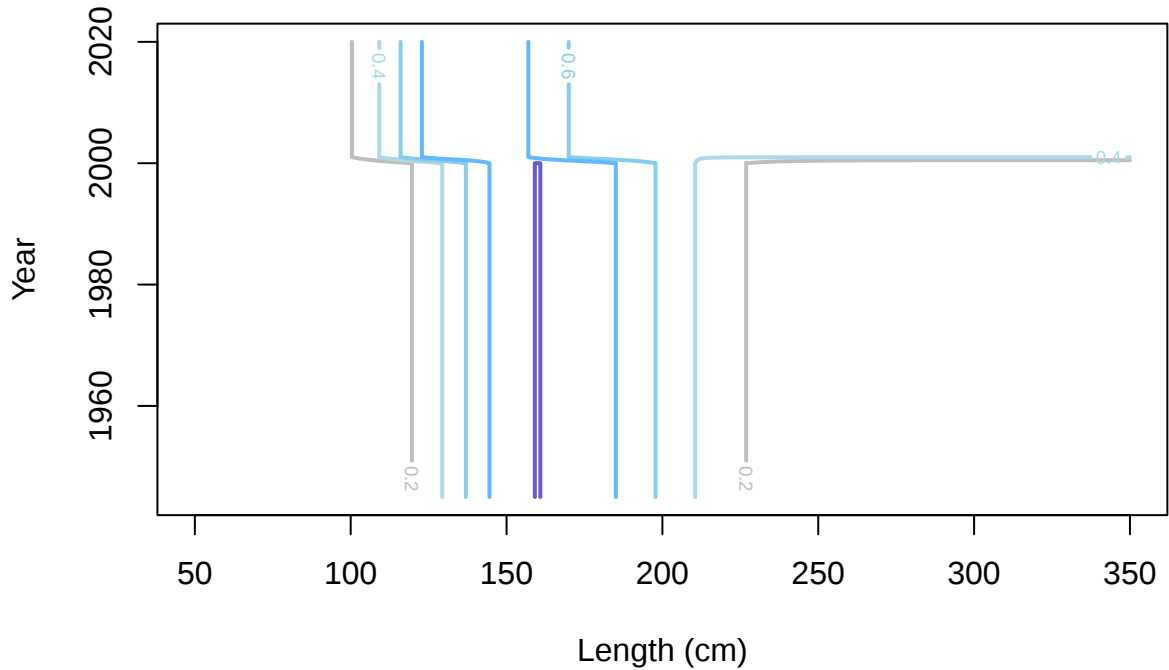
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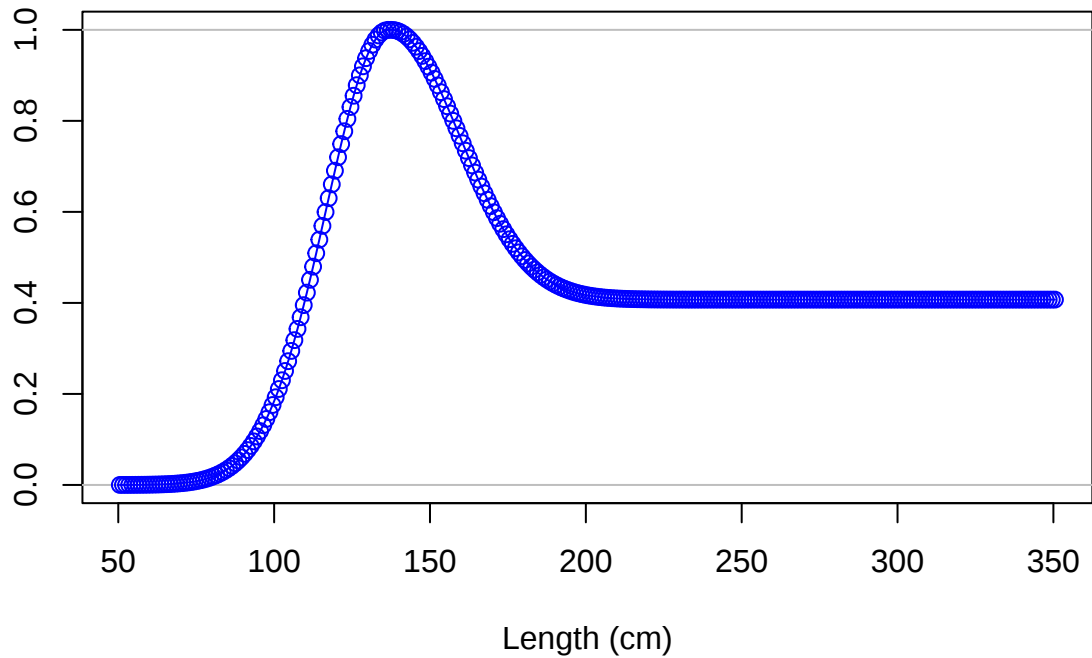
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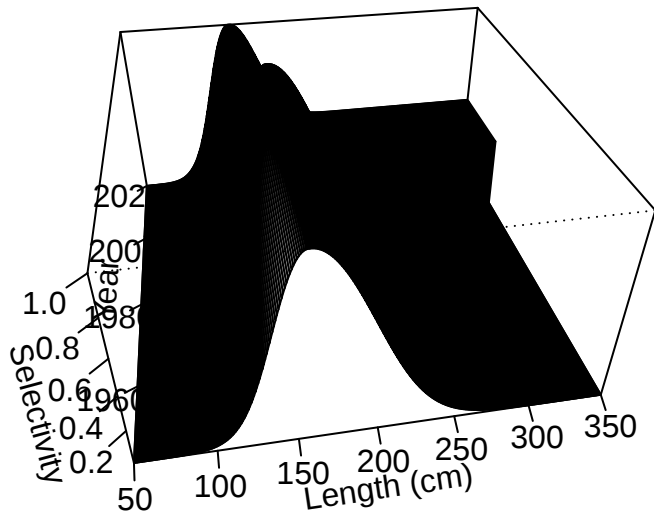


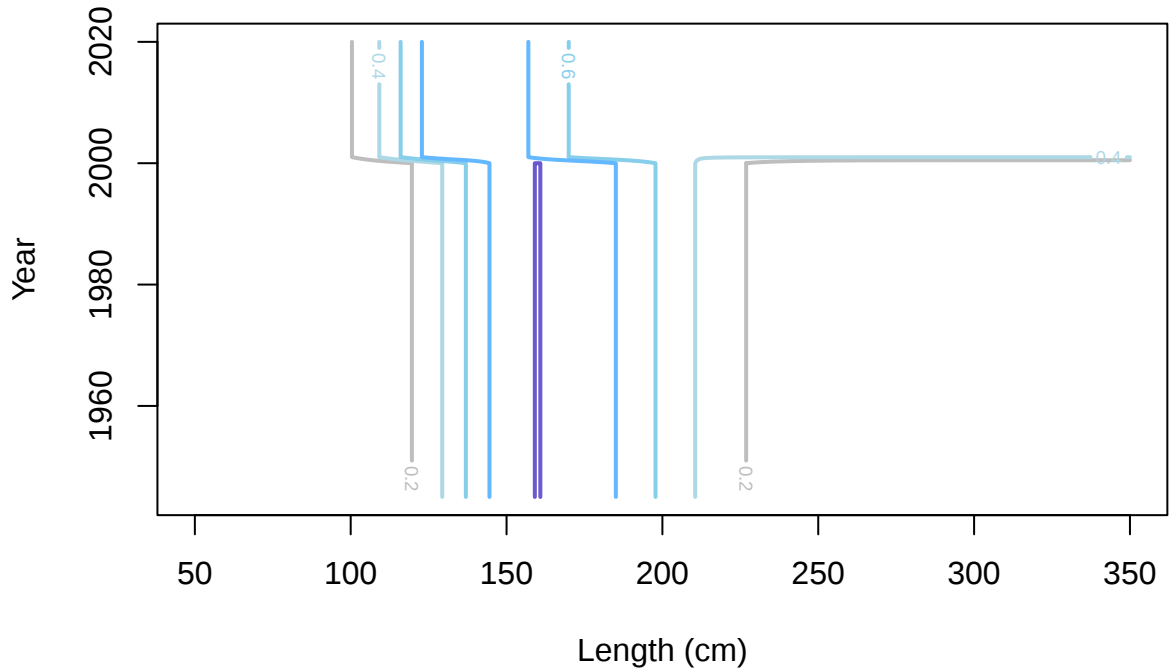




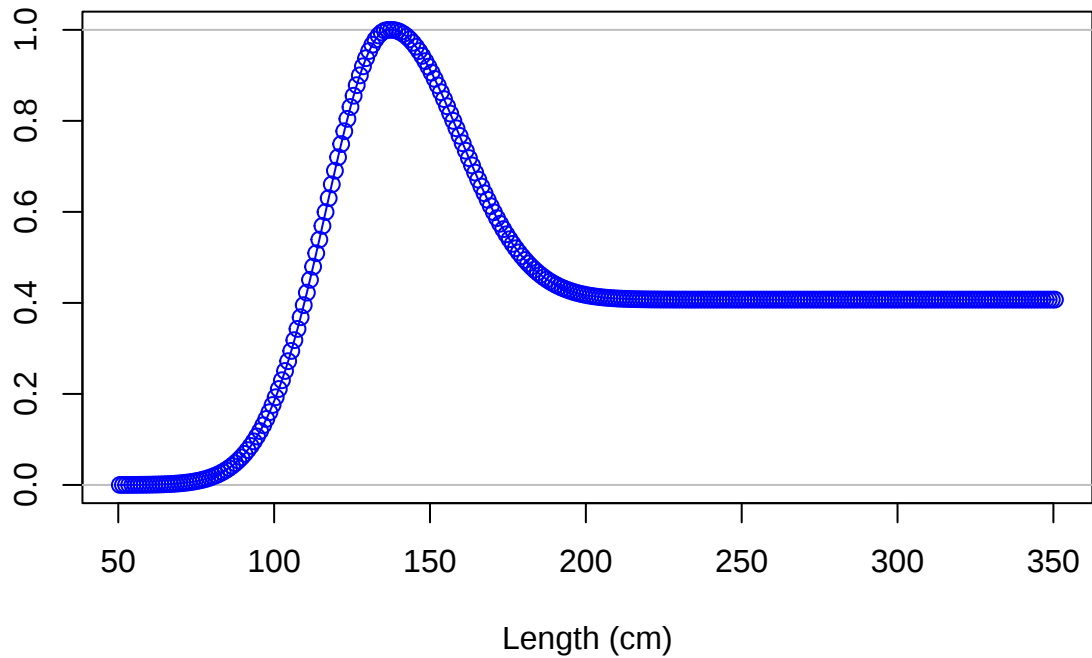
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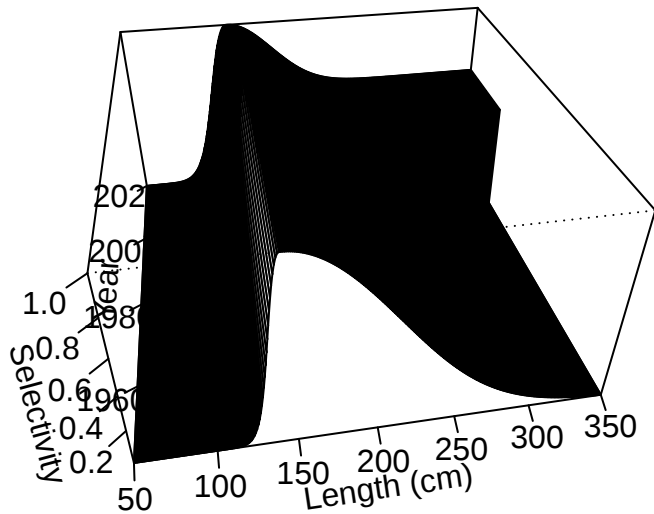


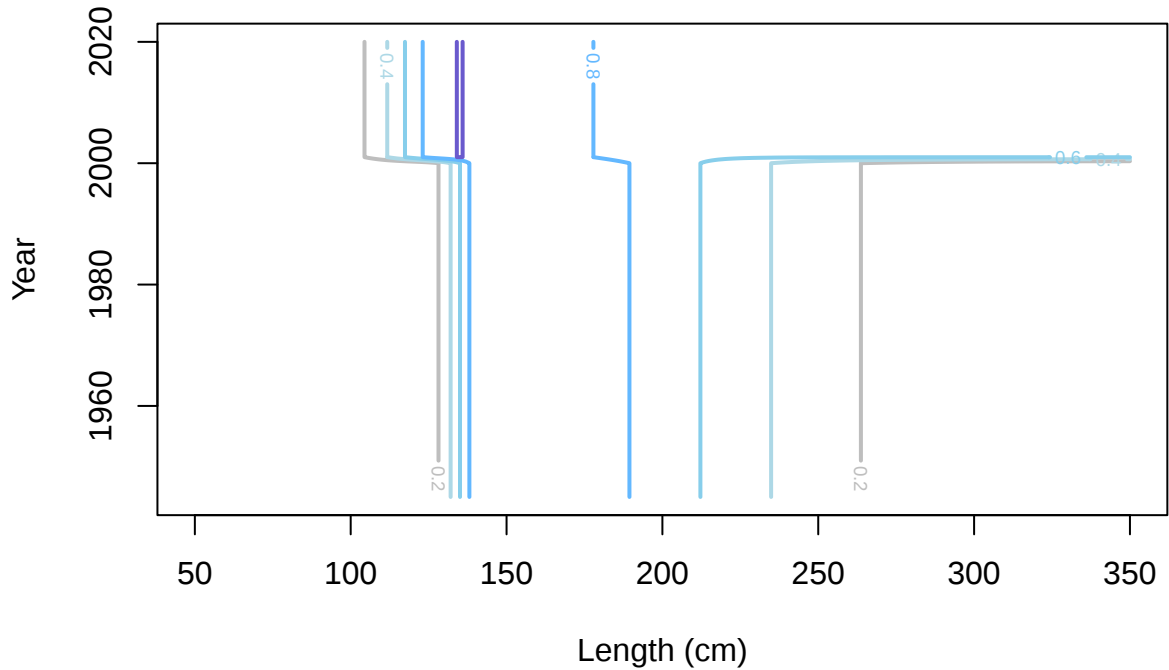




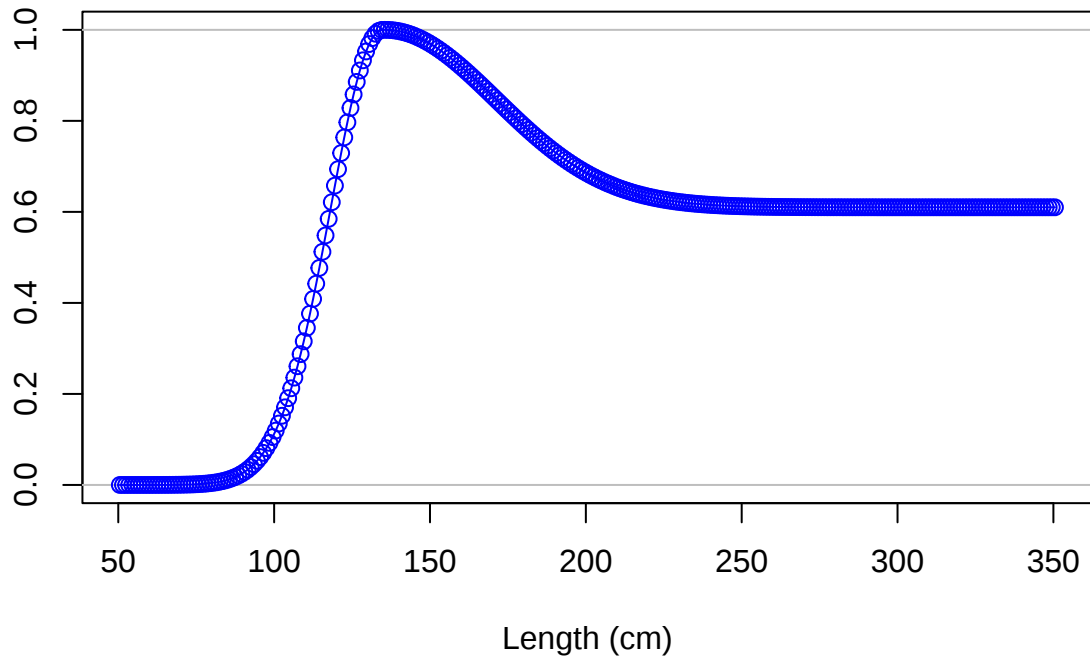
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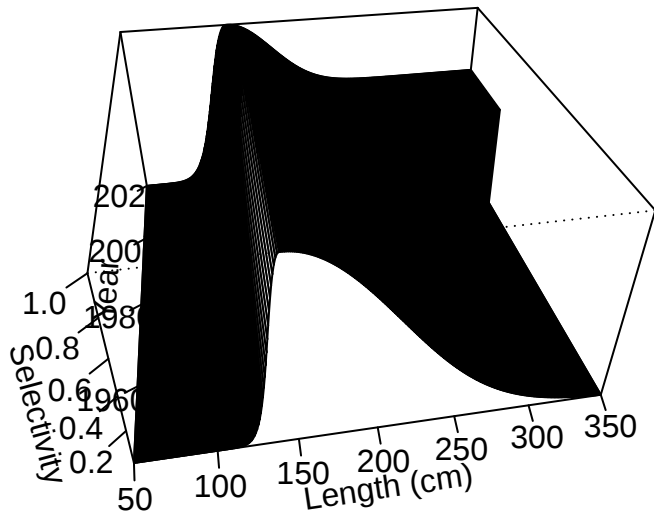


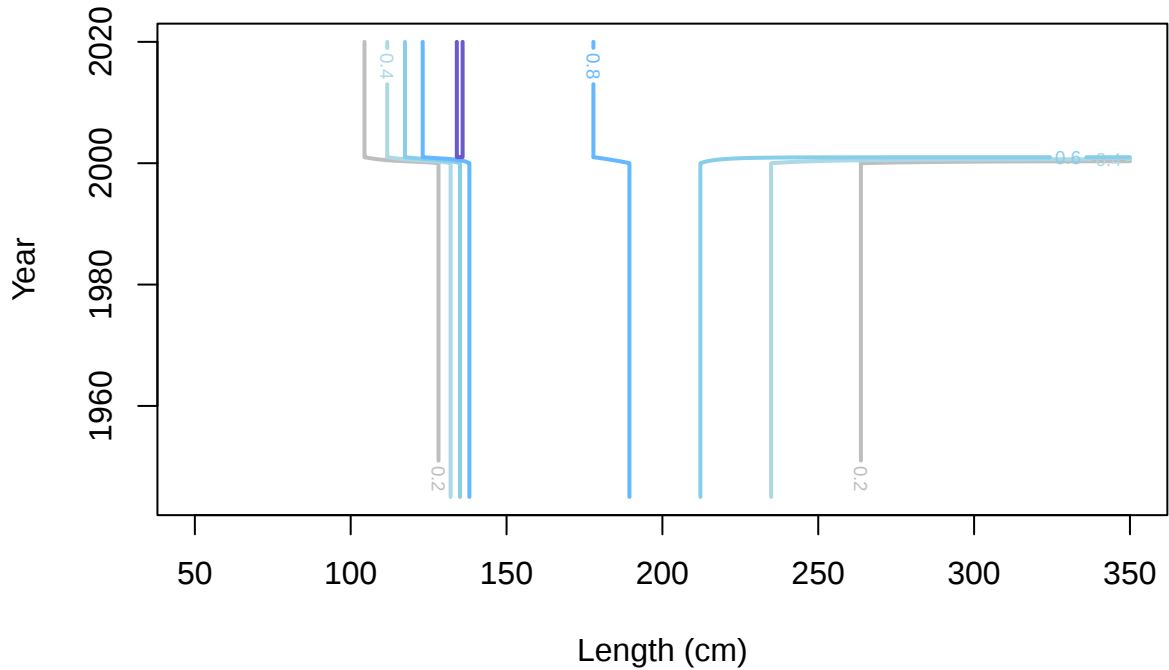




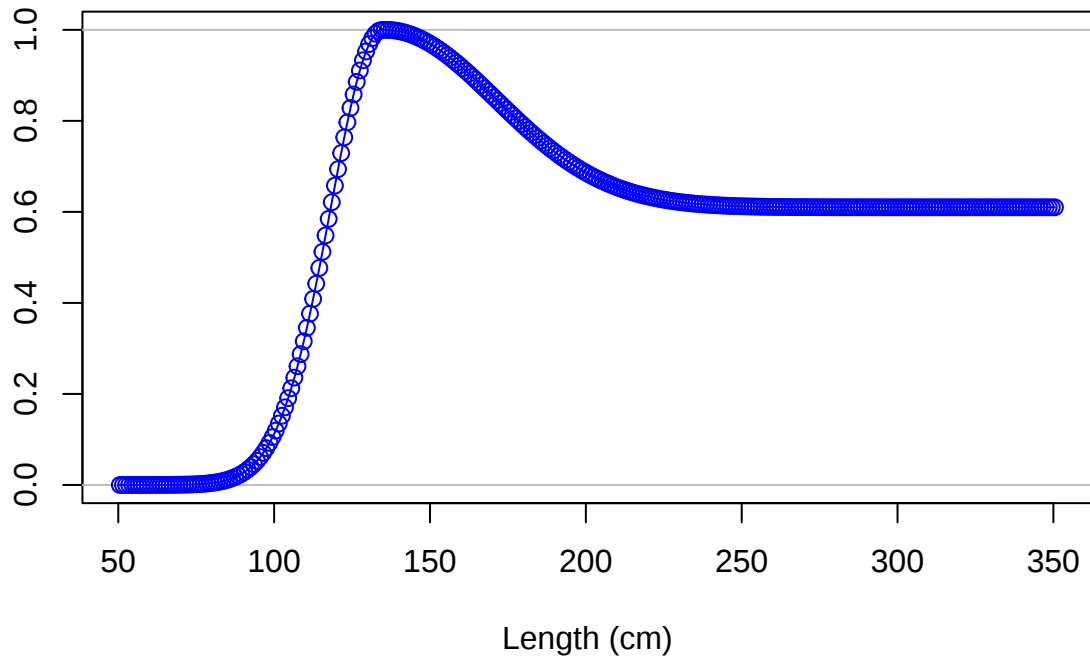
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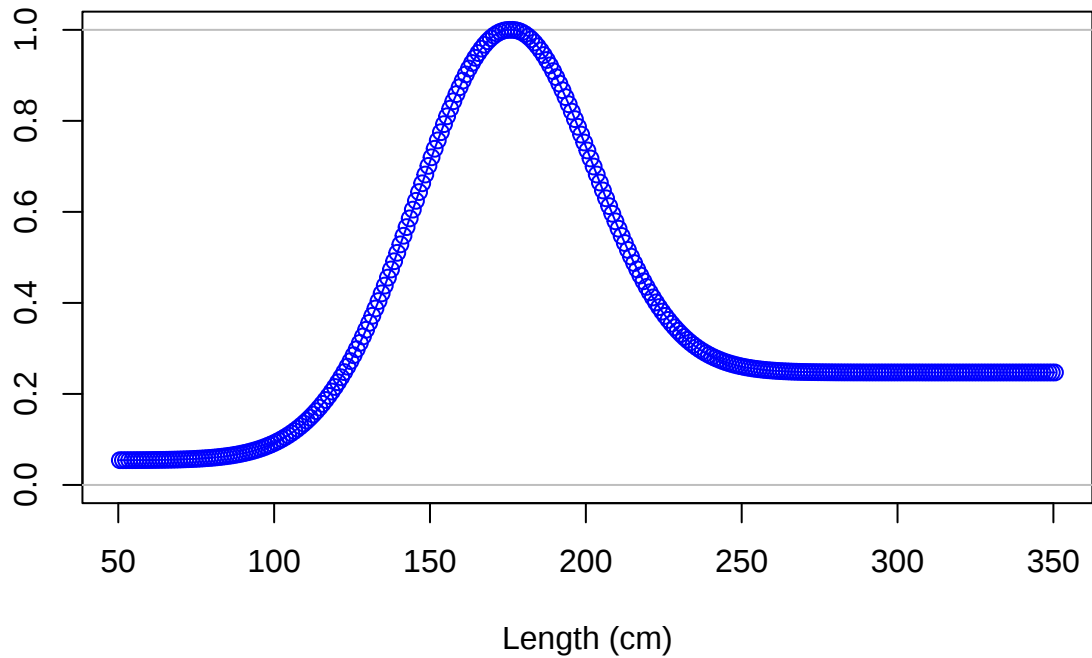




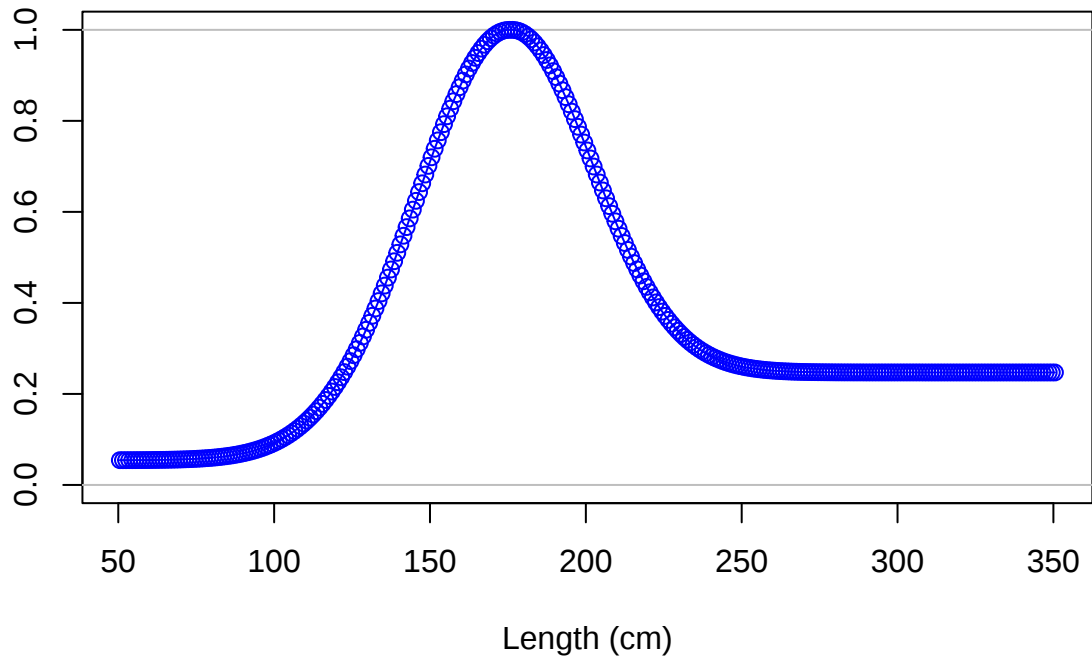
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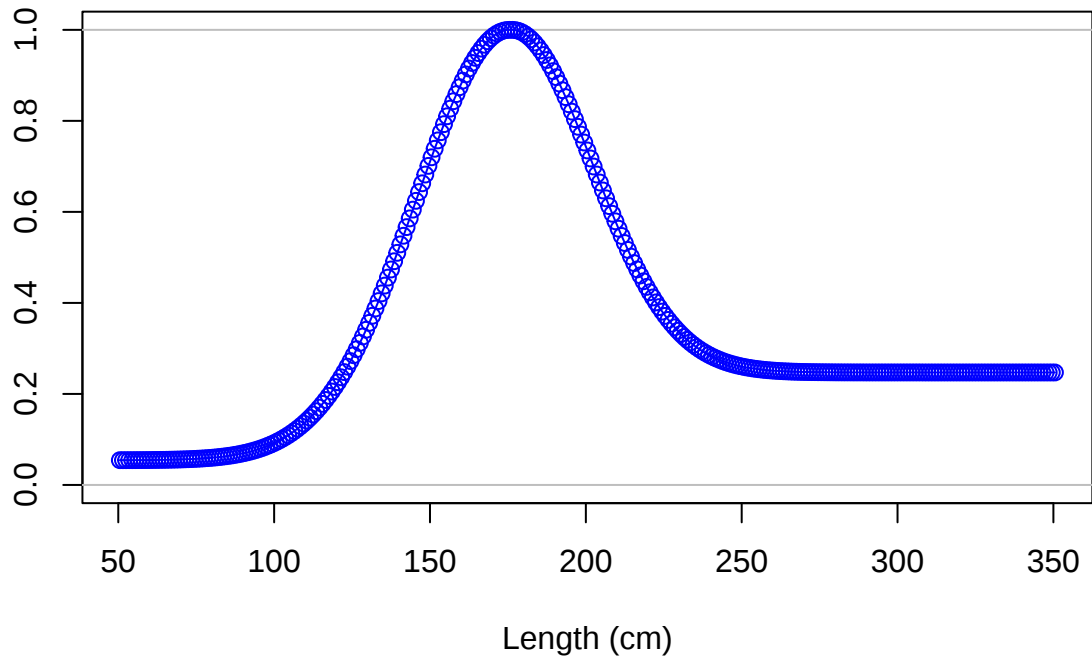
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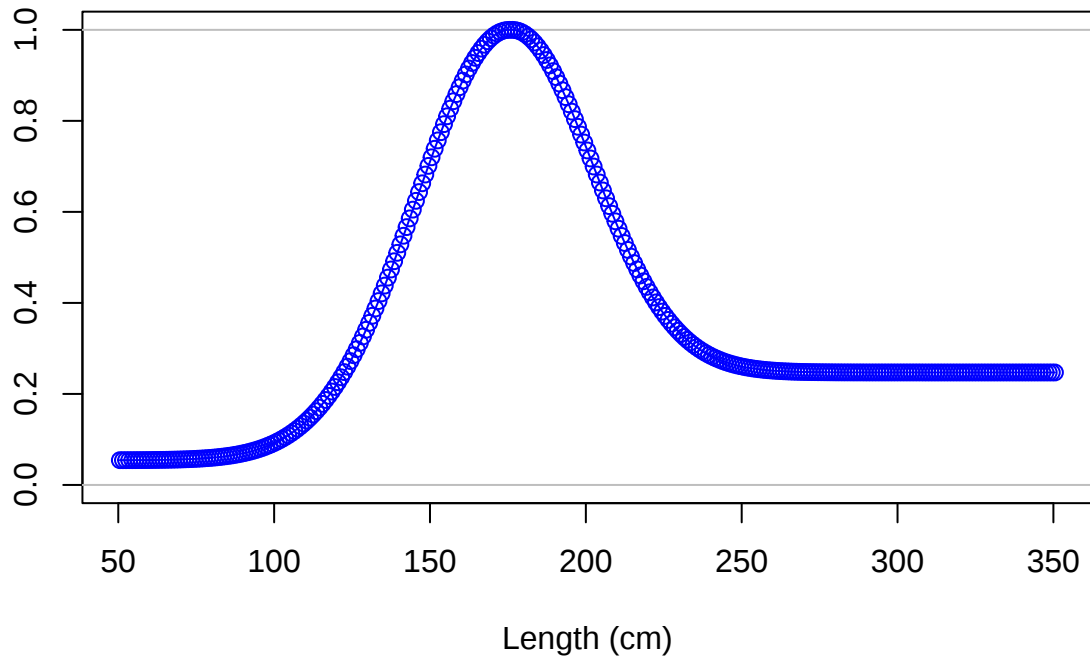
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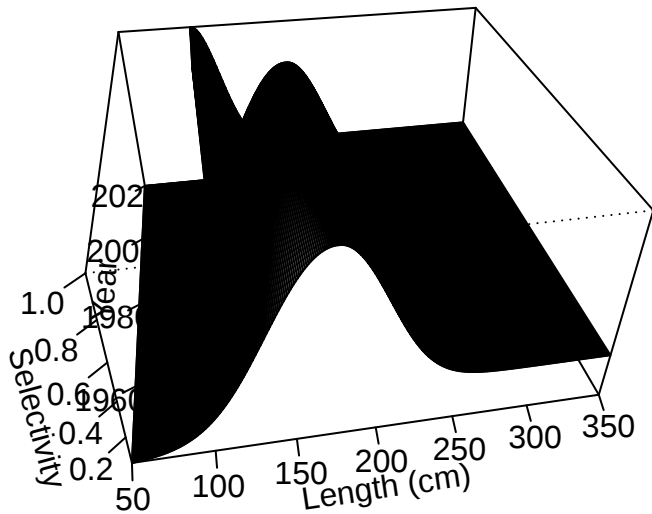


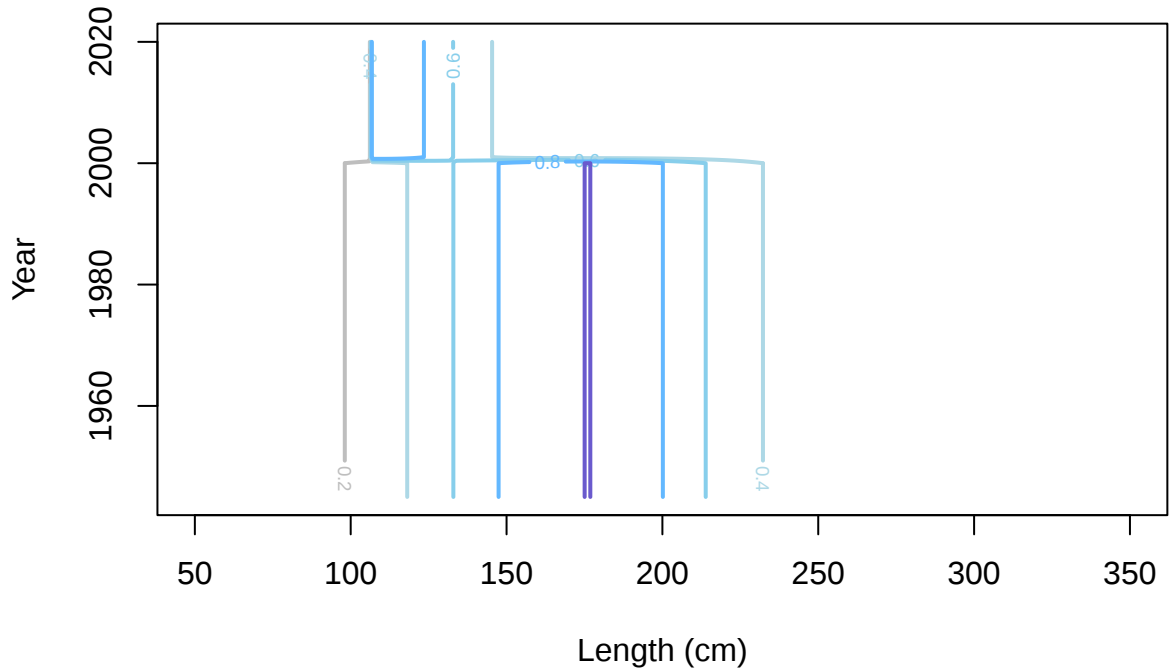
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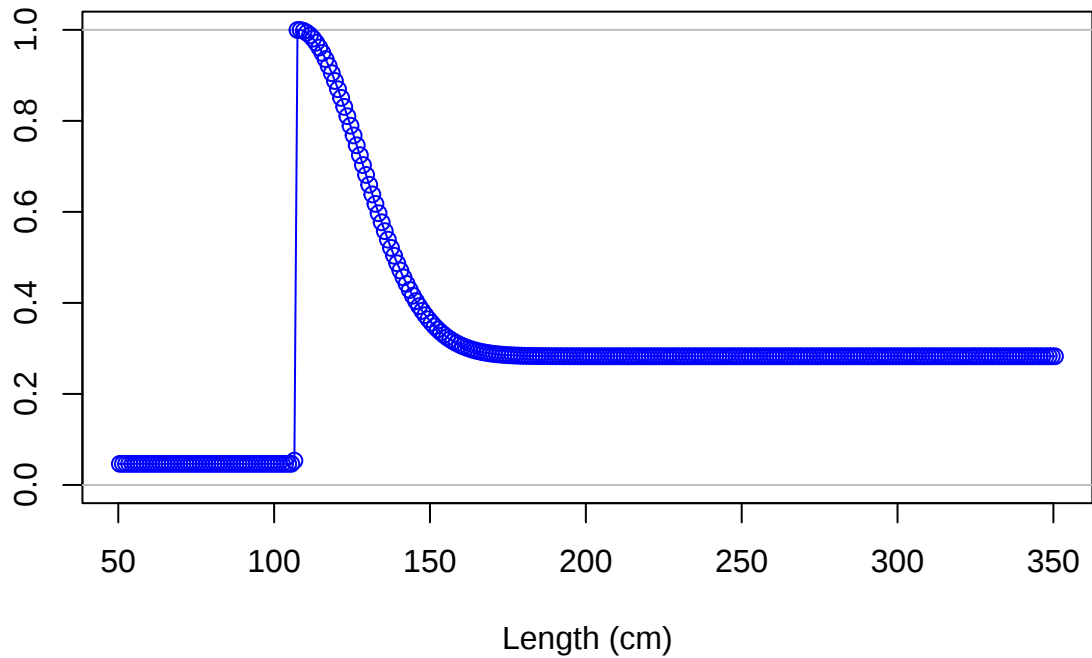
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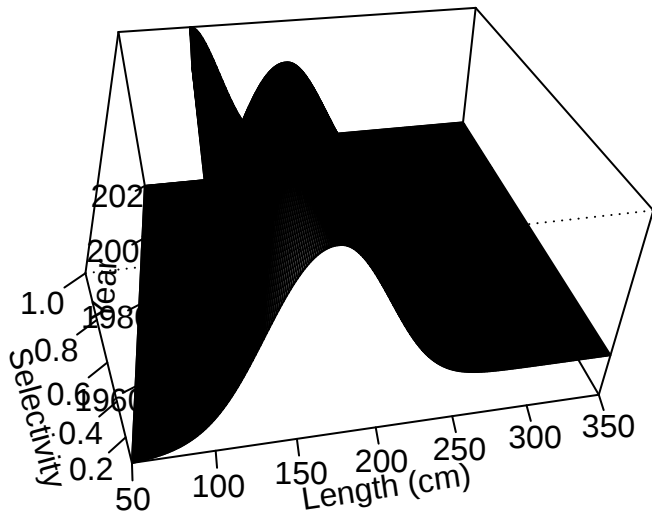


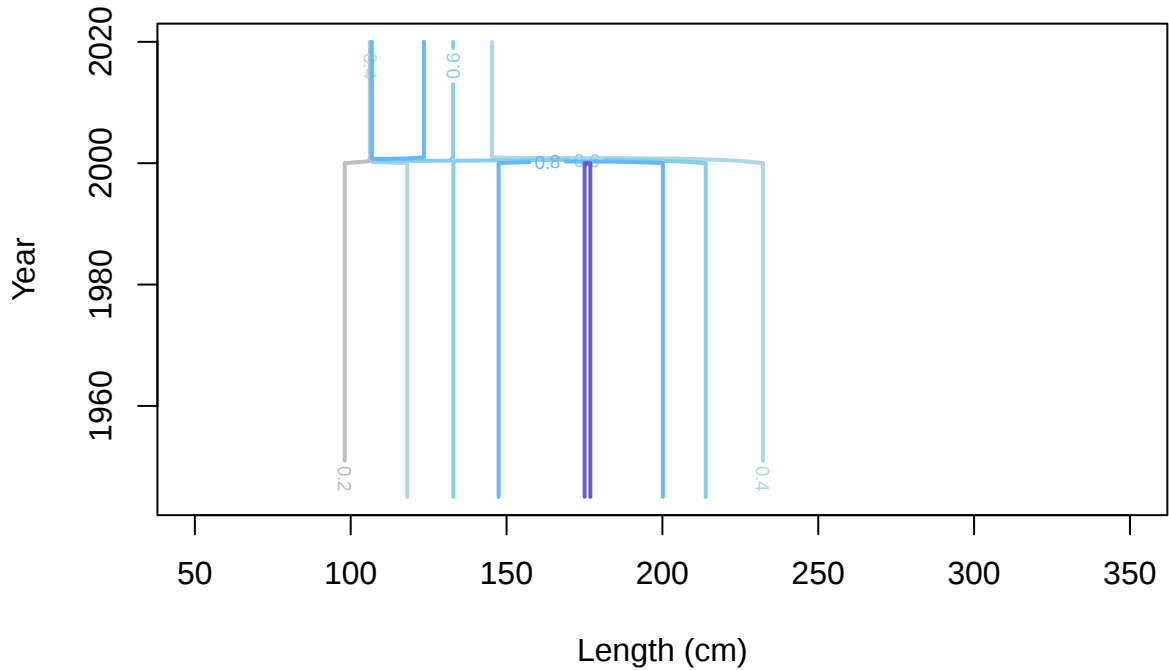




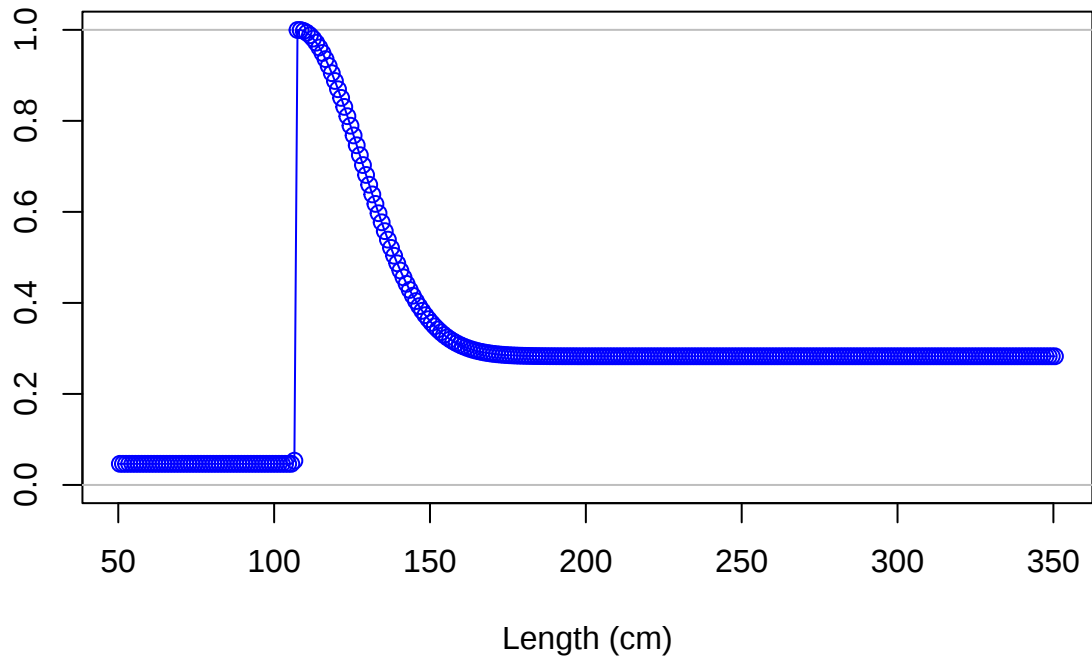
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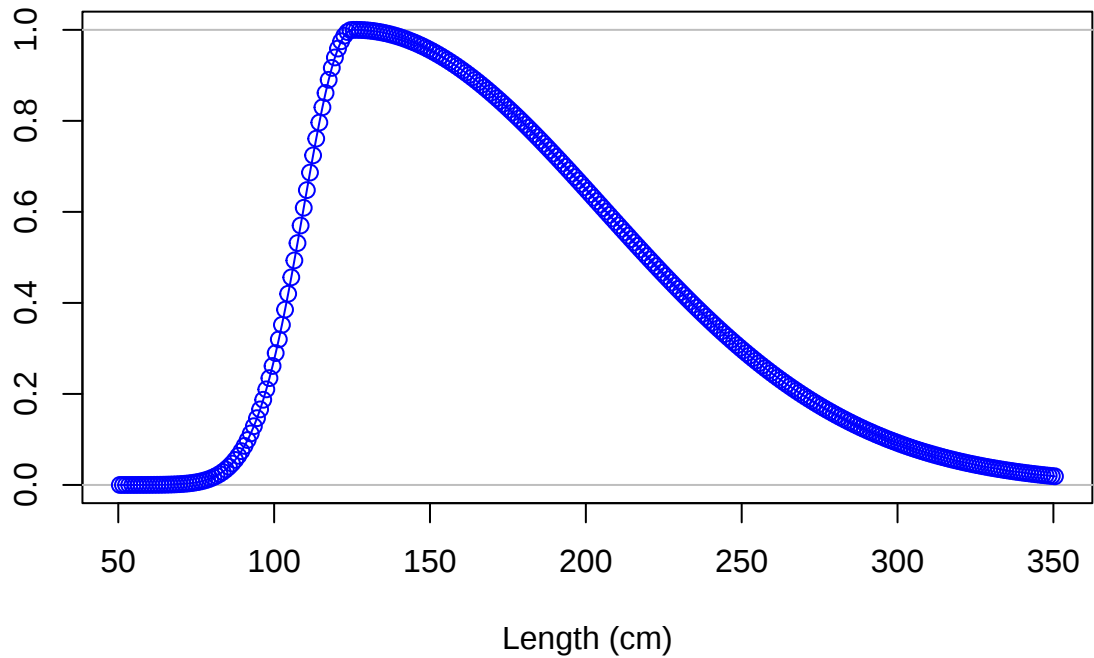




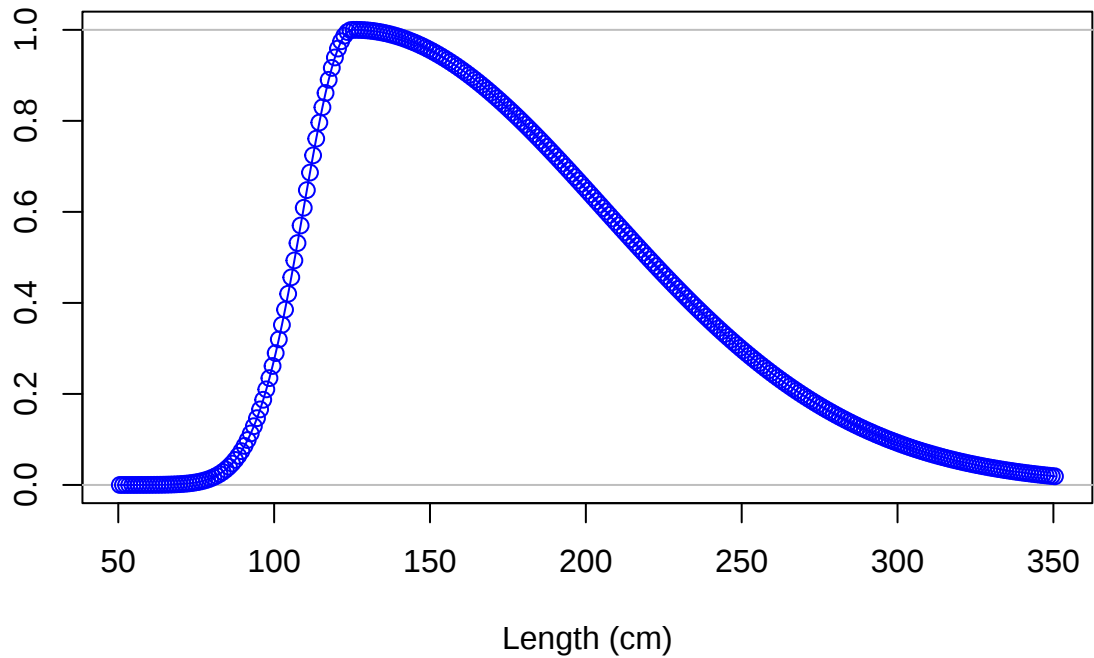
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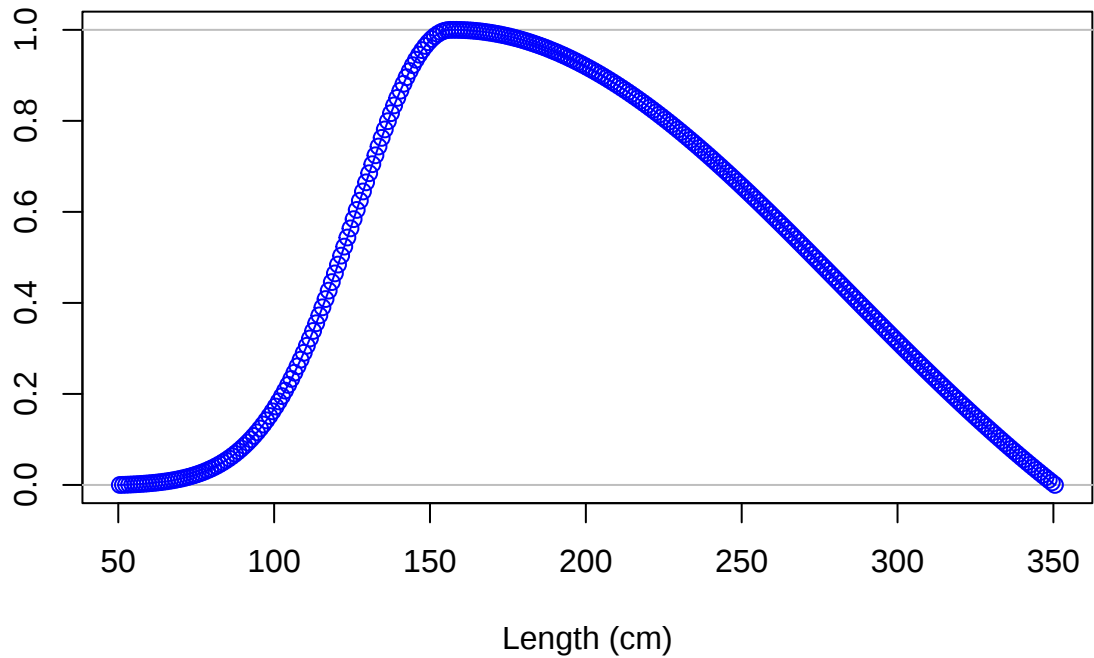
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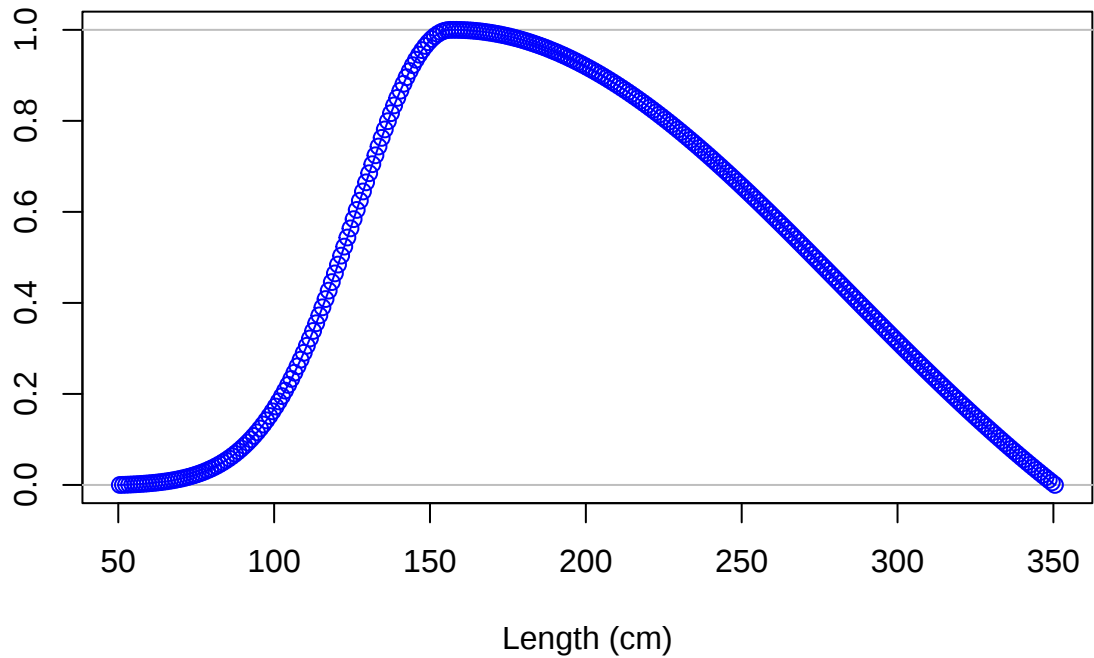
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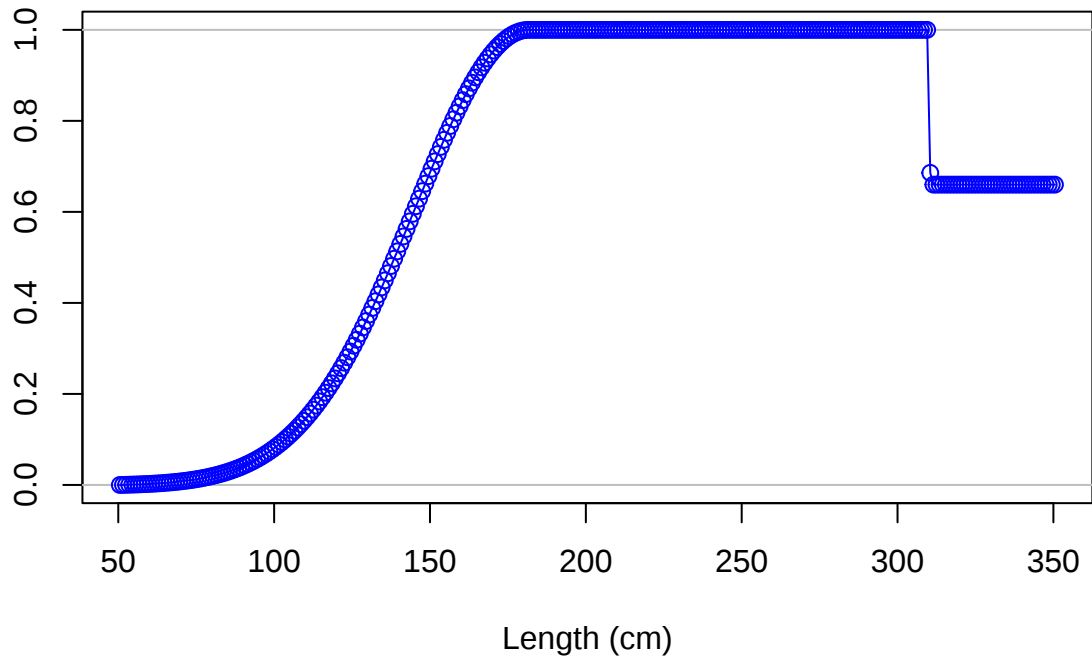
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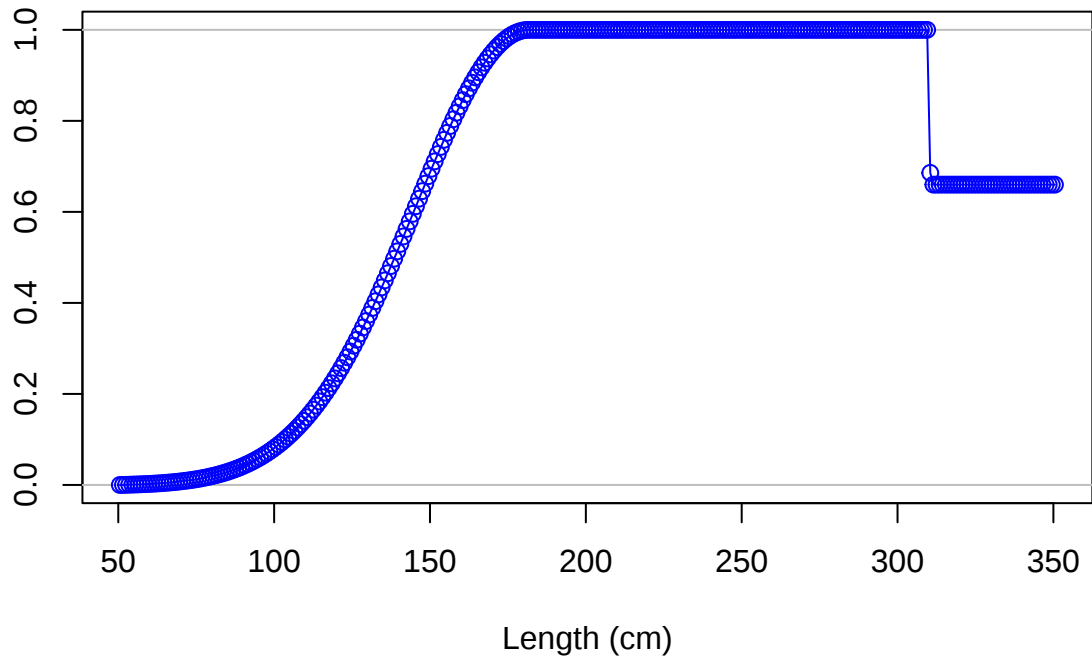
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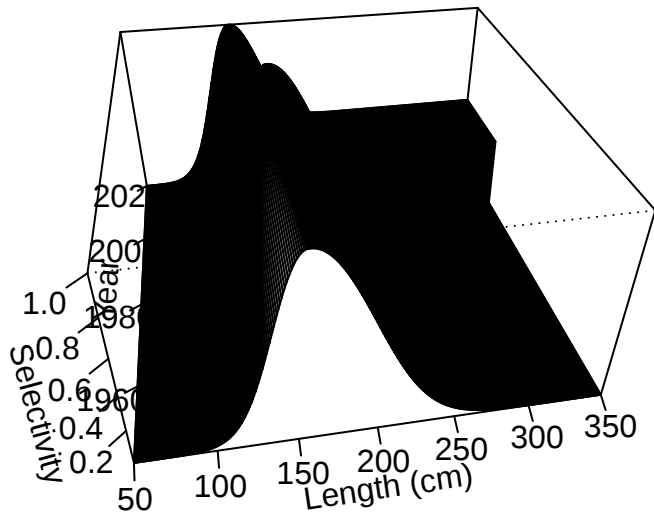


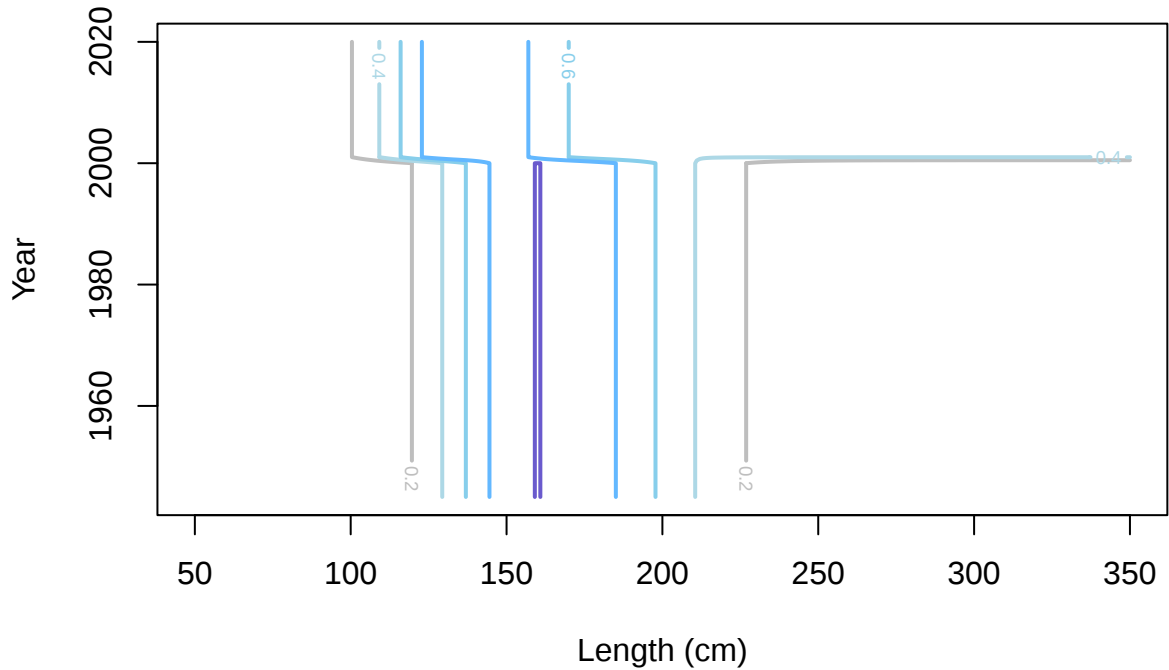
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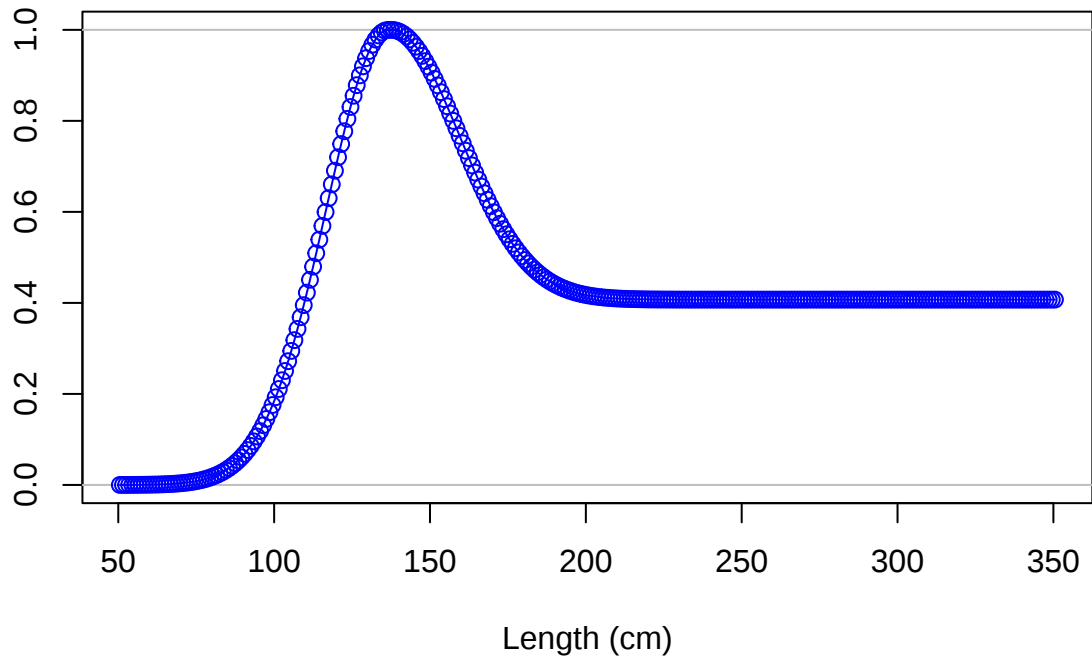
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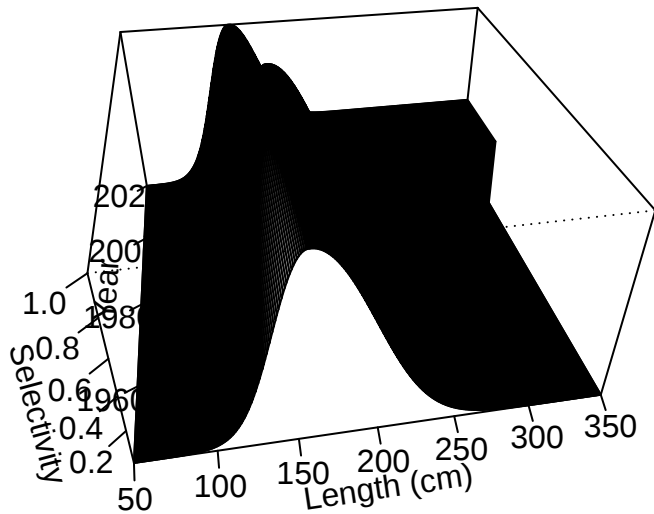


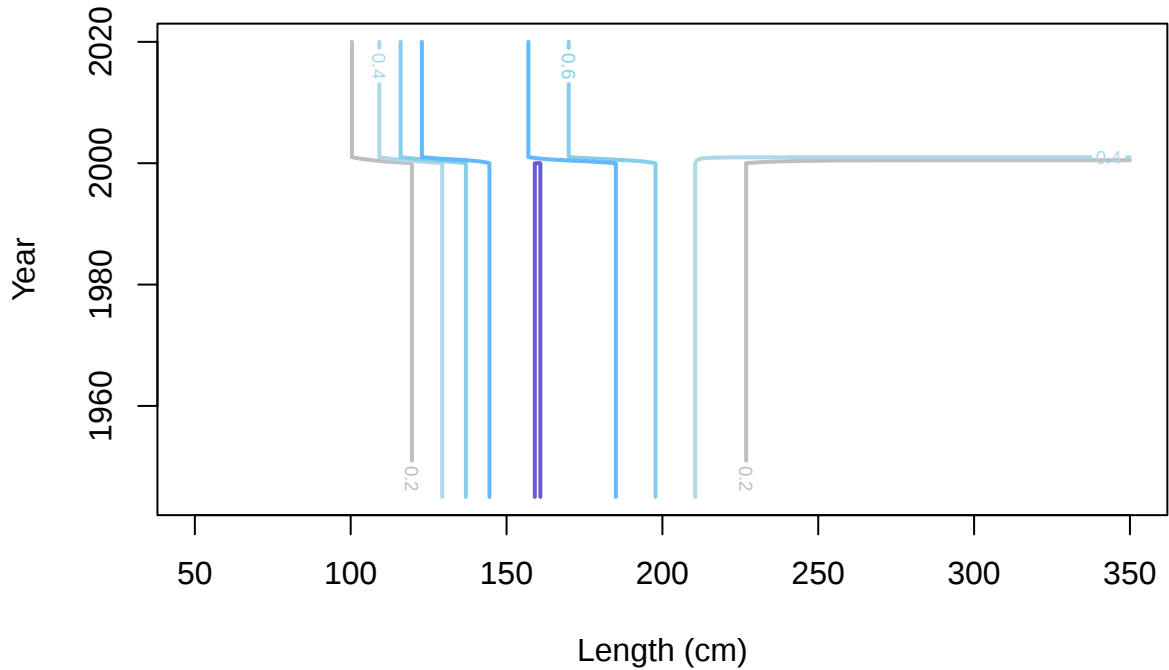




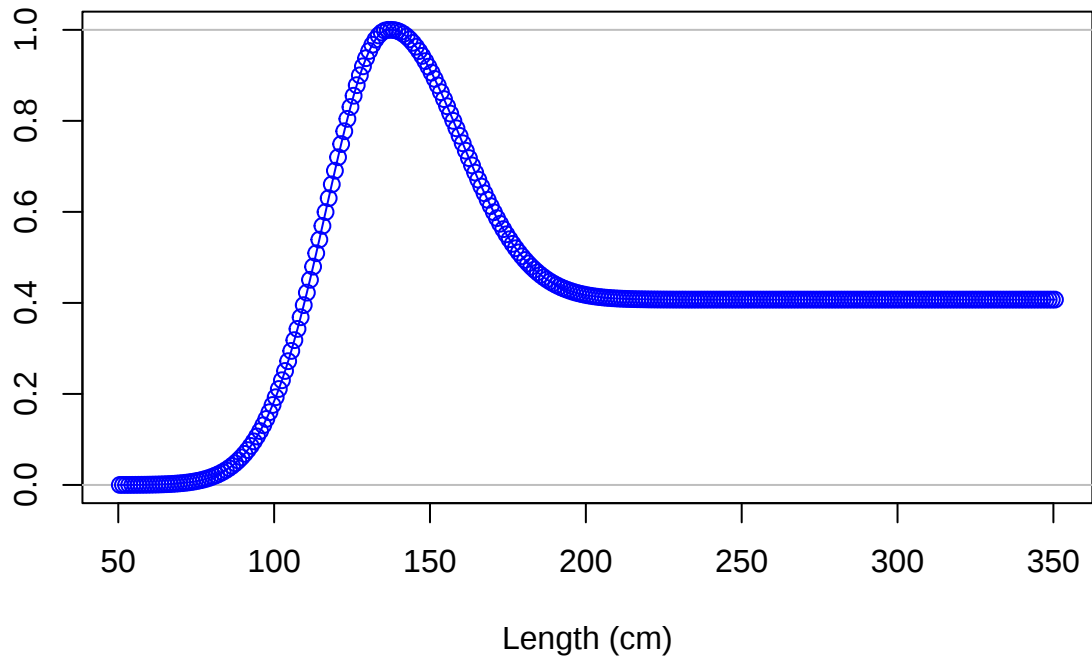
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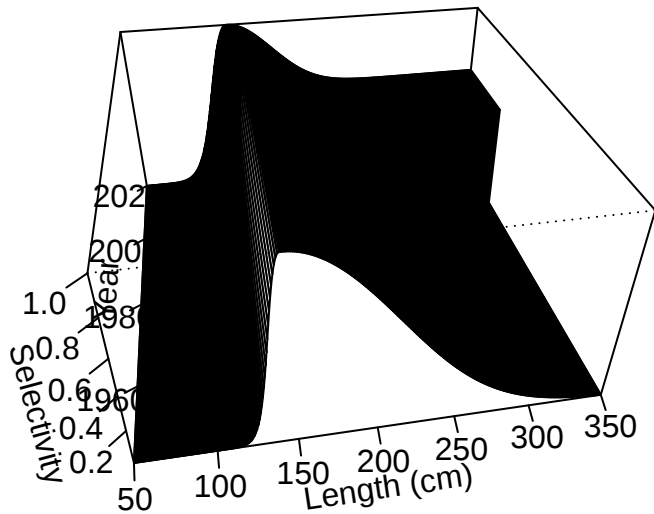


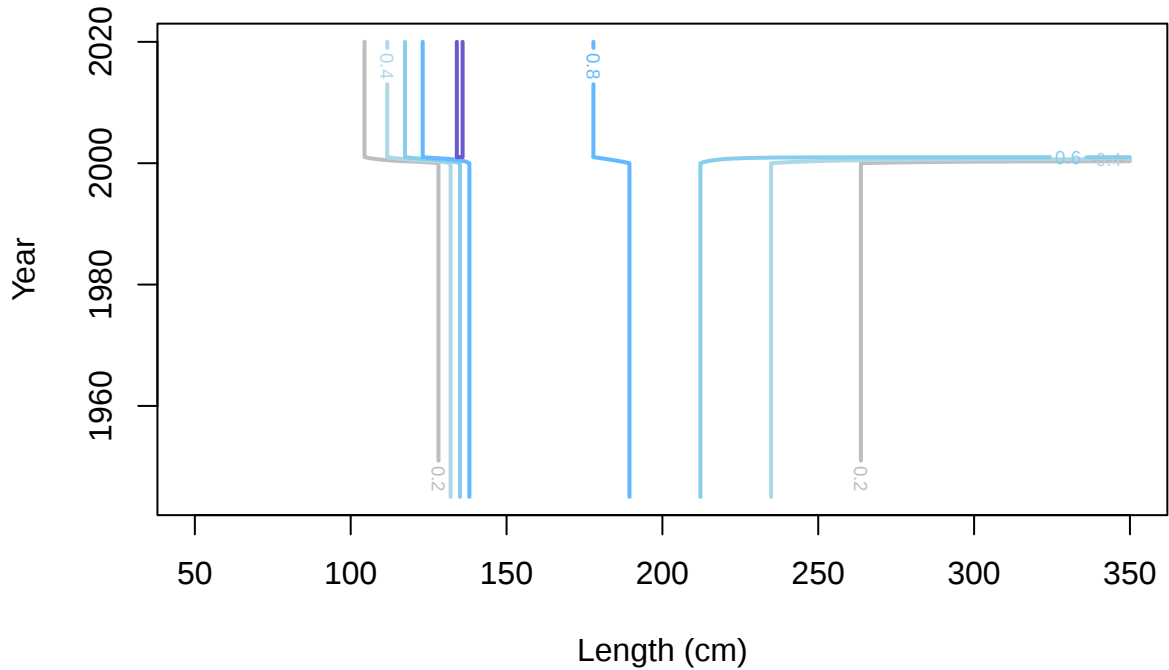




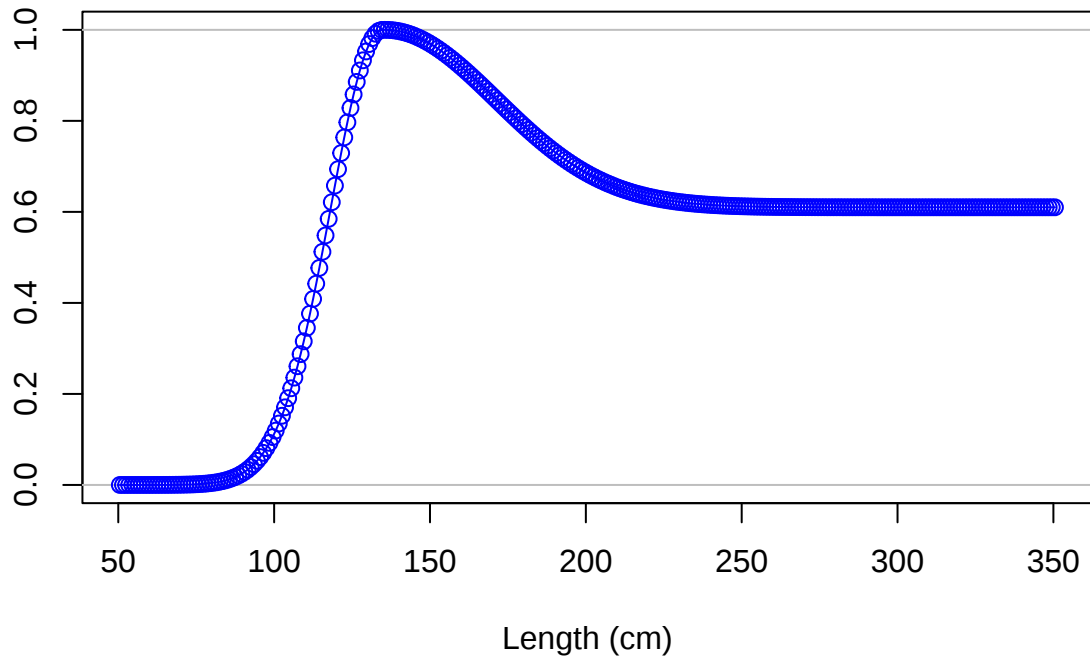
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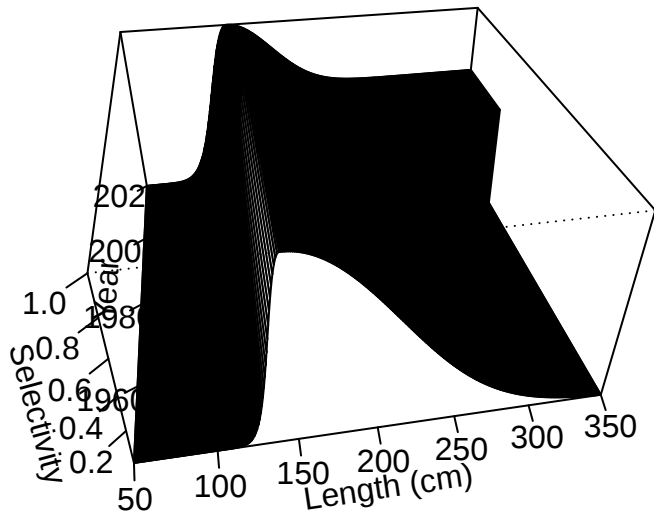


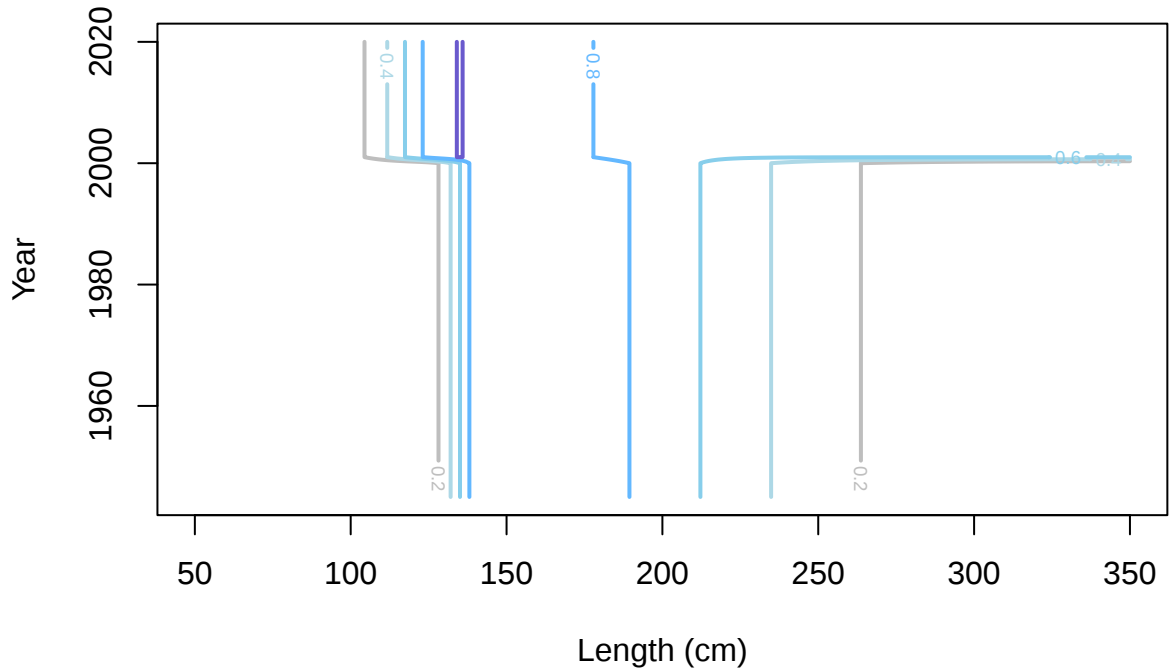




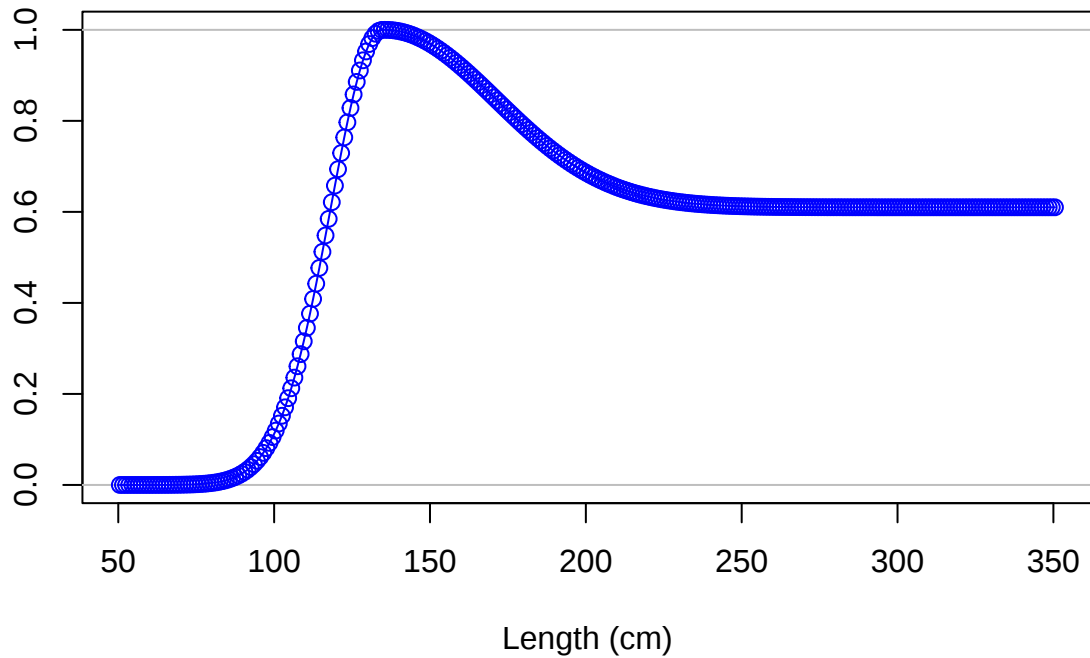
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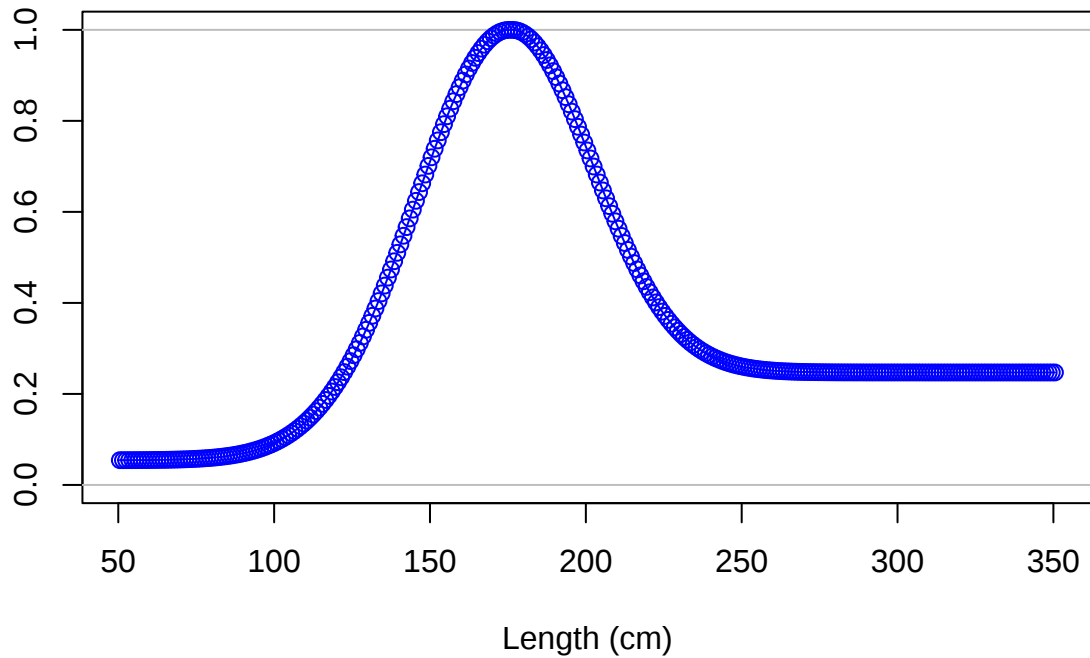




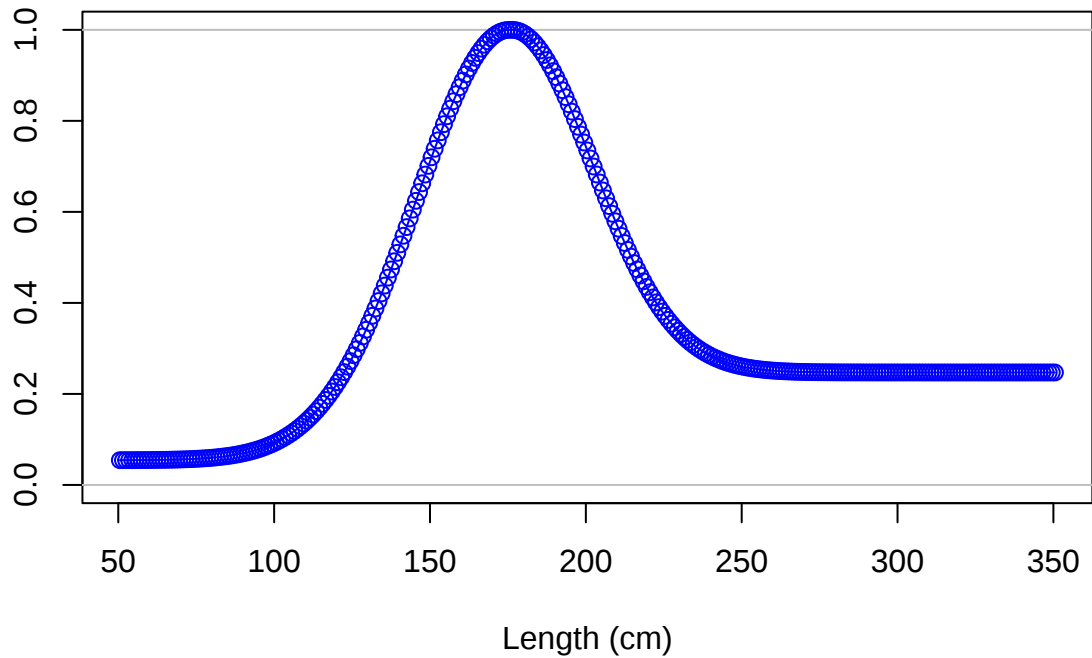
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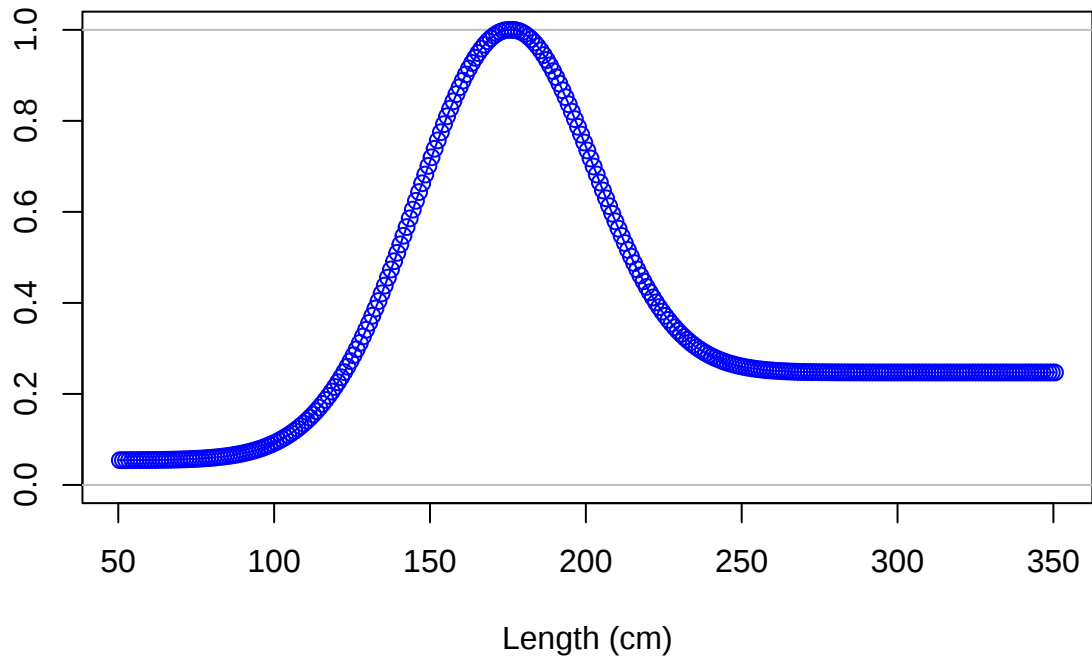
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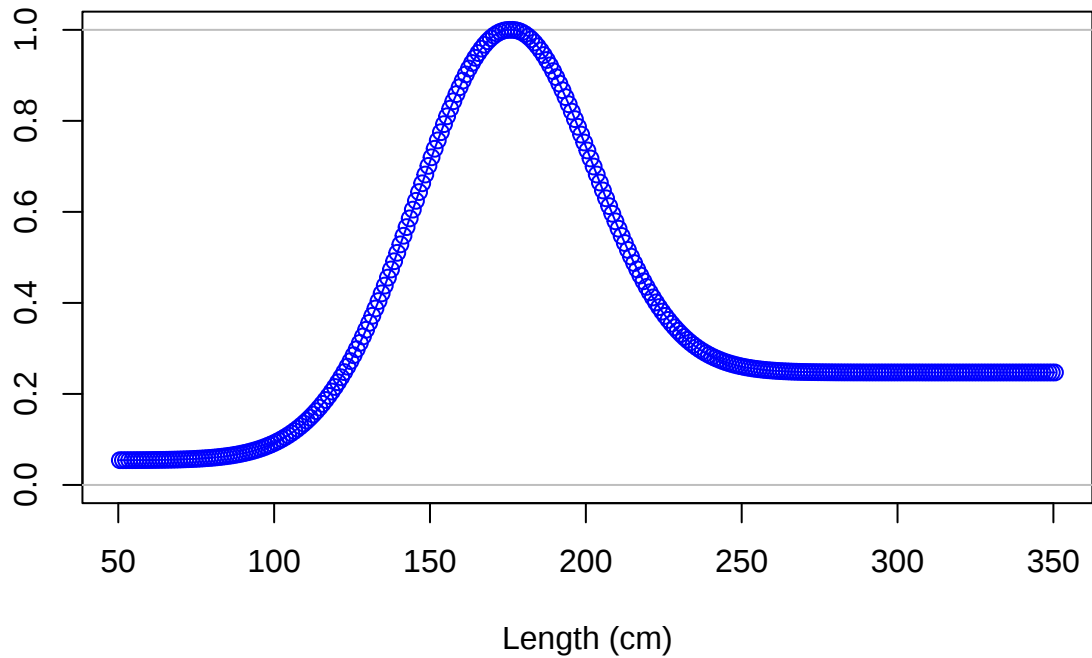
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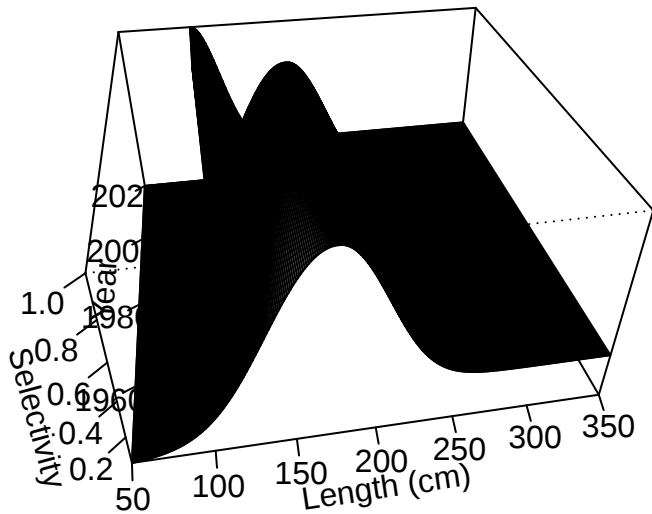


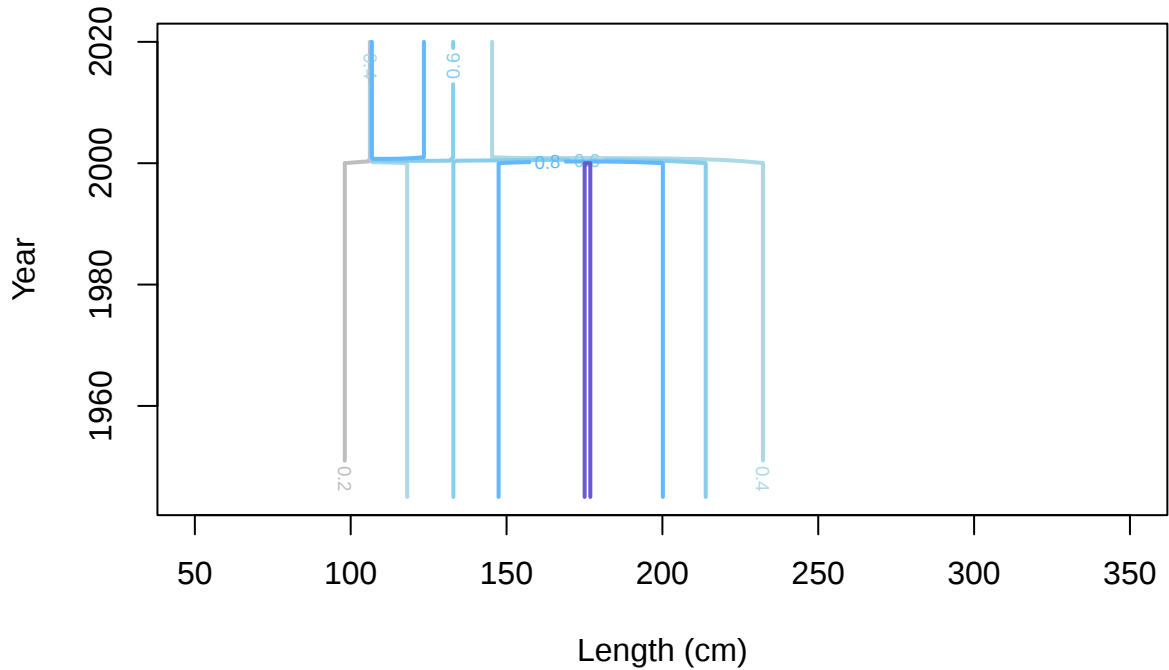
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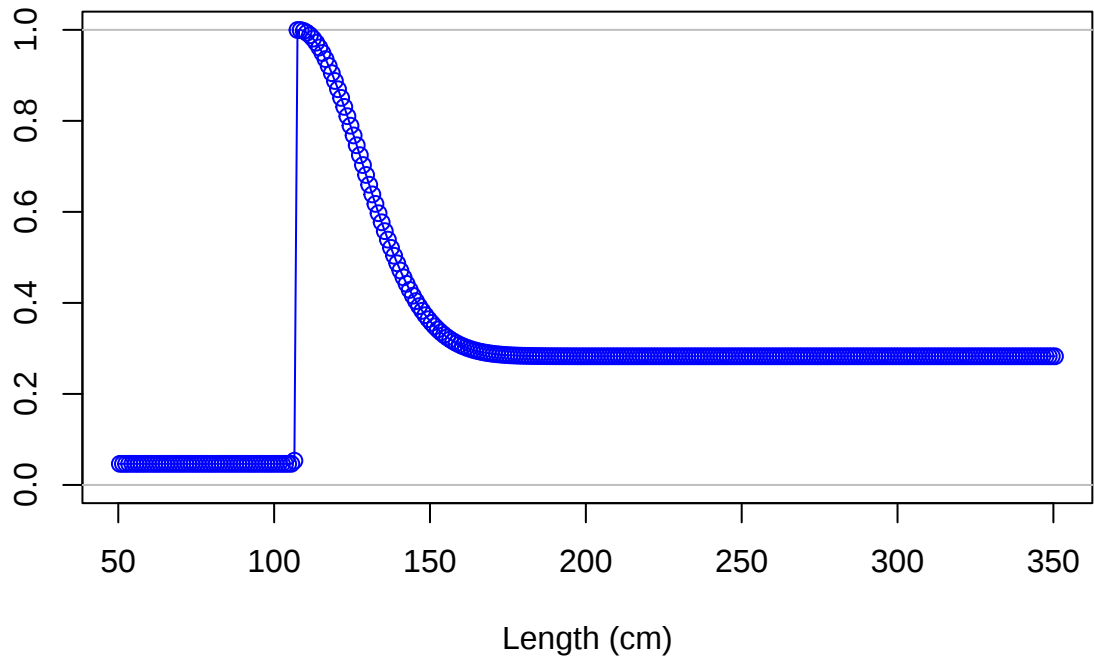
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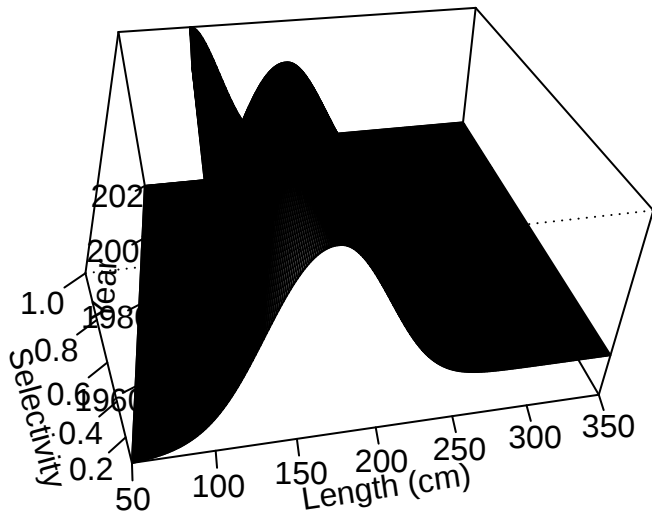


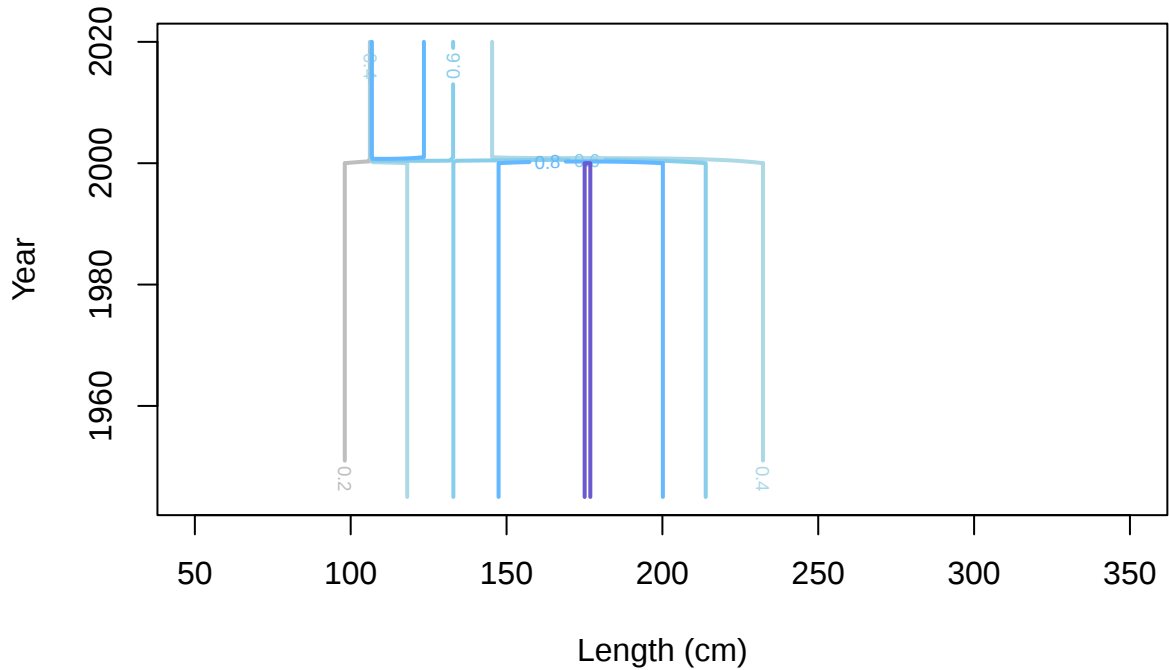




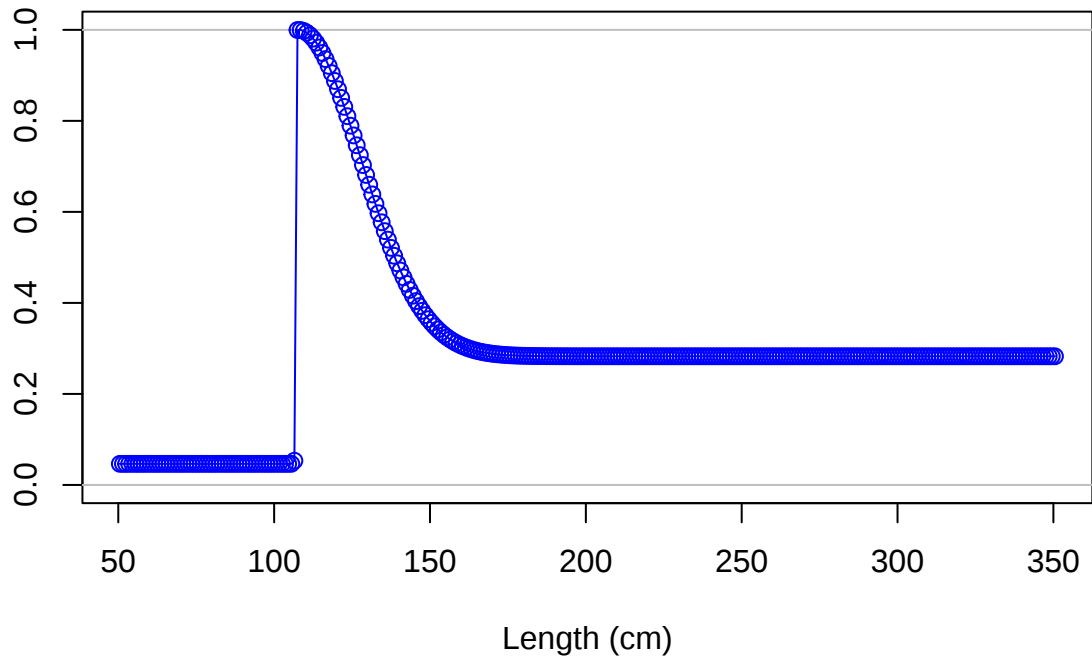
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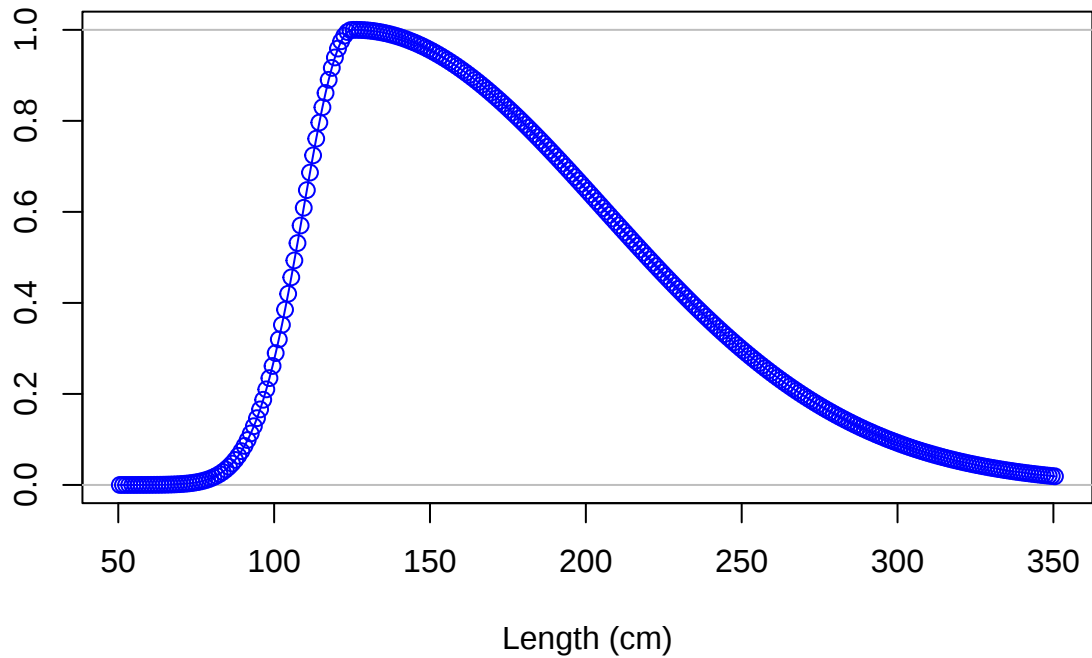




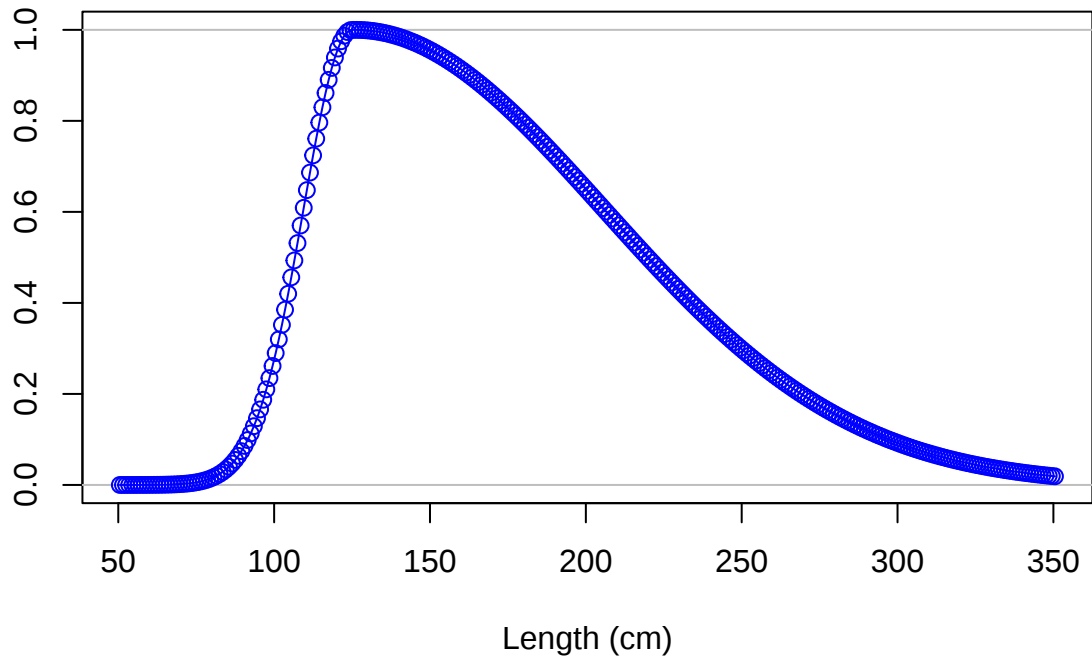
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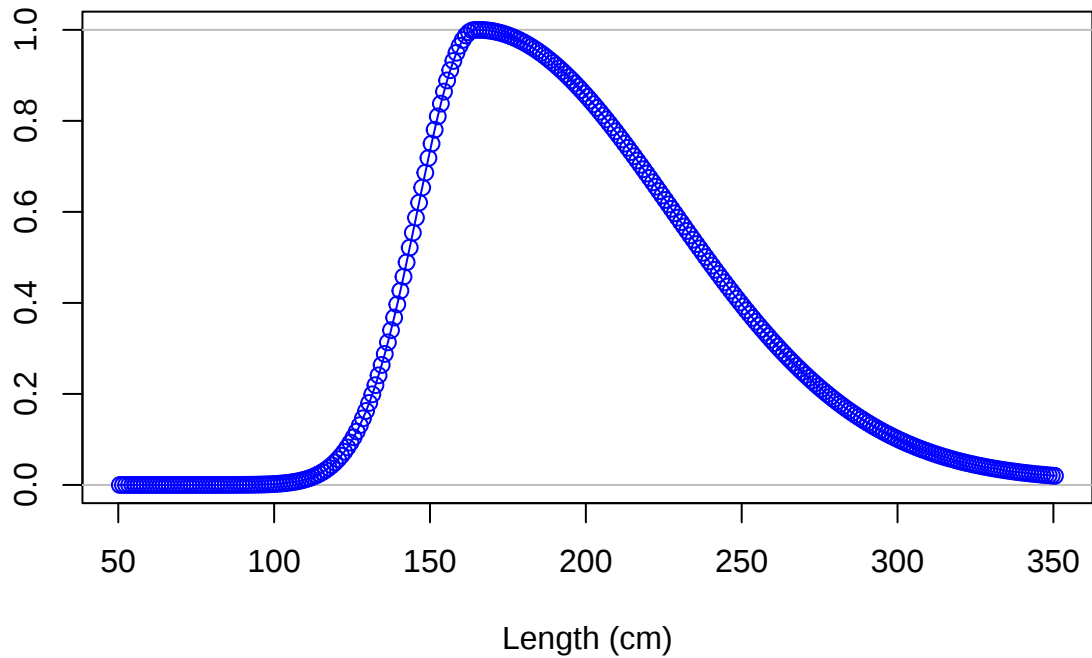
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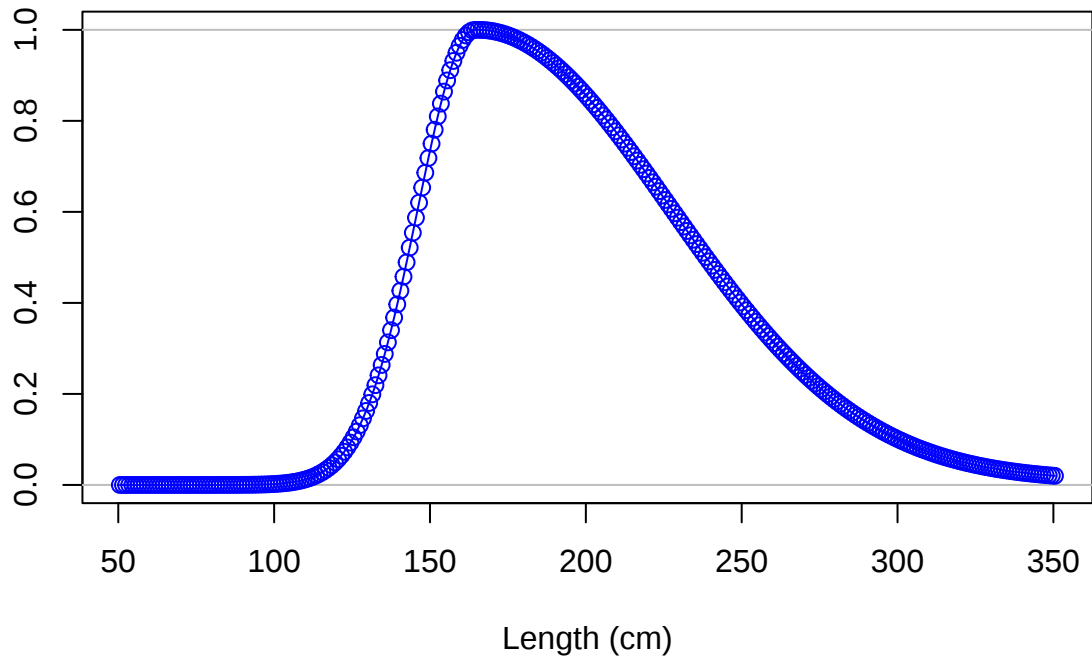
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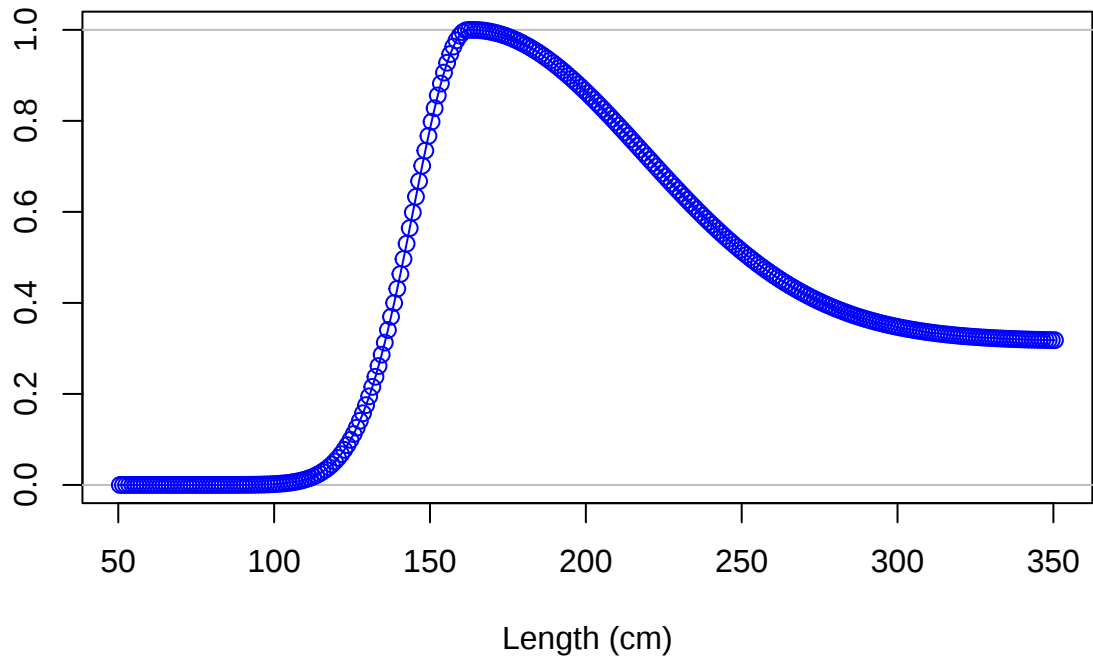
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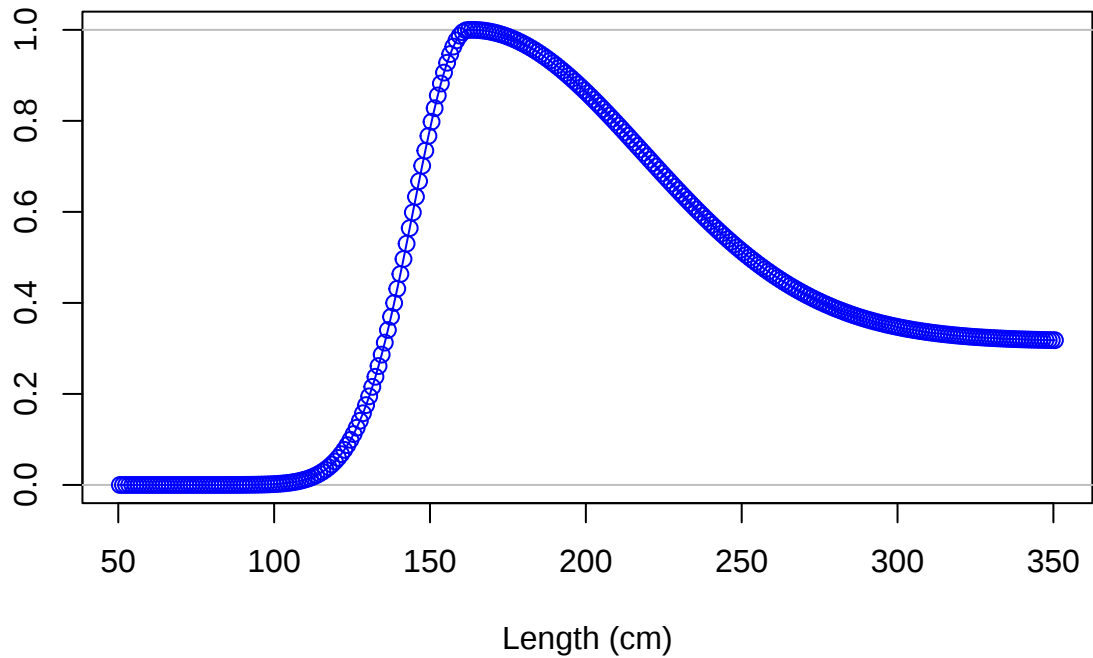
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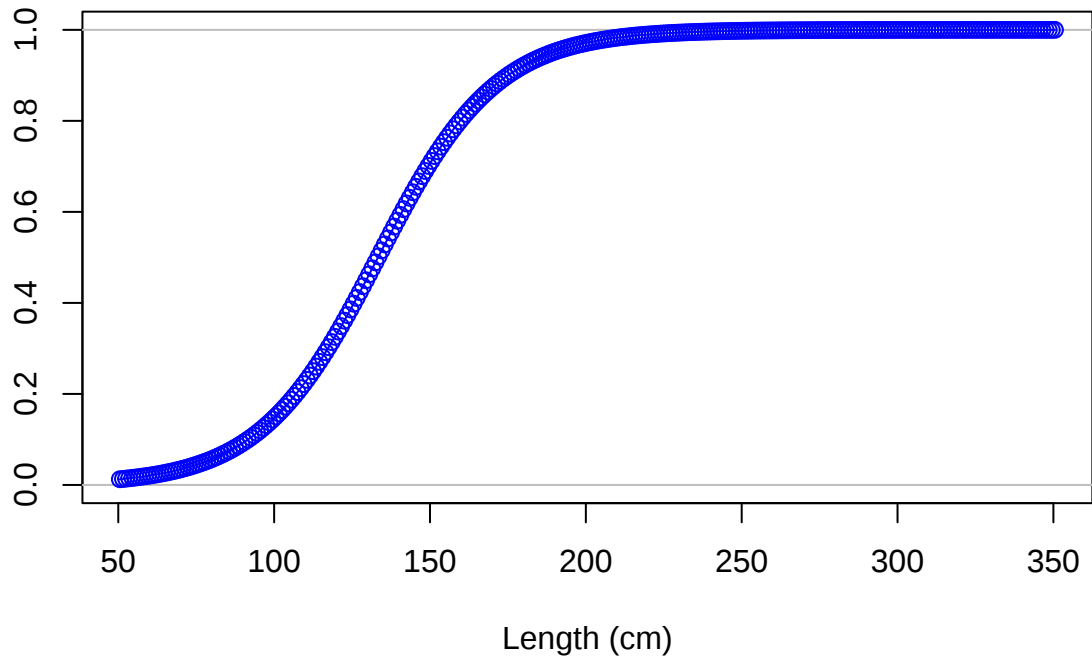
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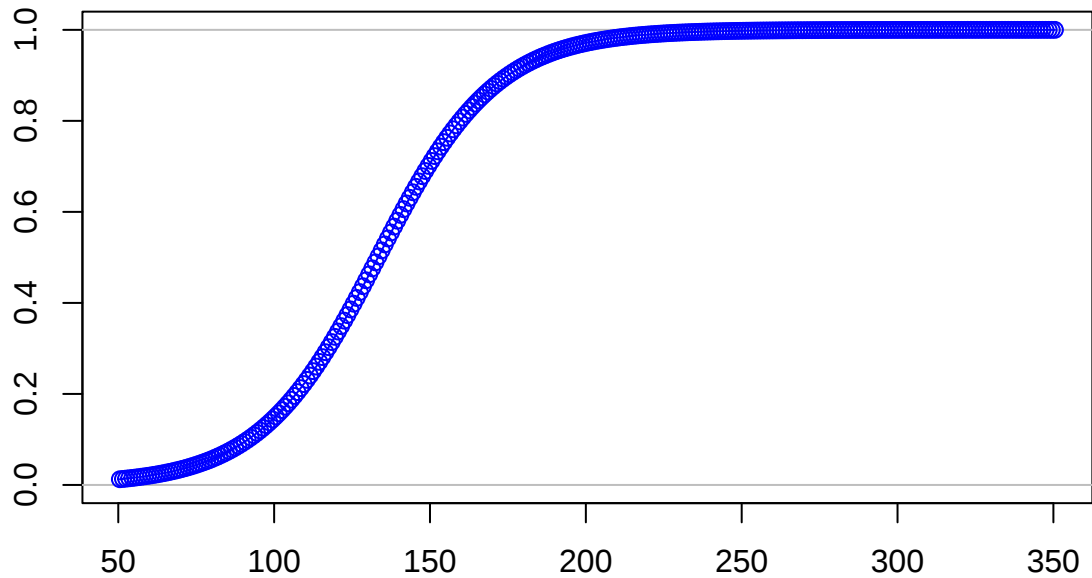
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Selectivity

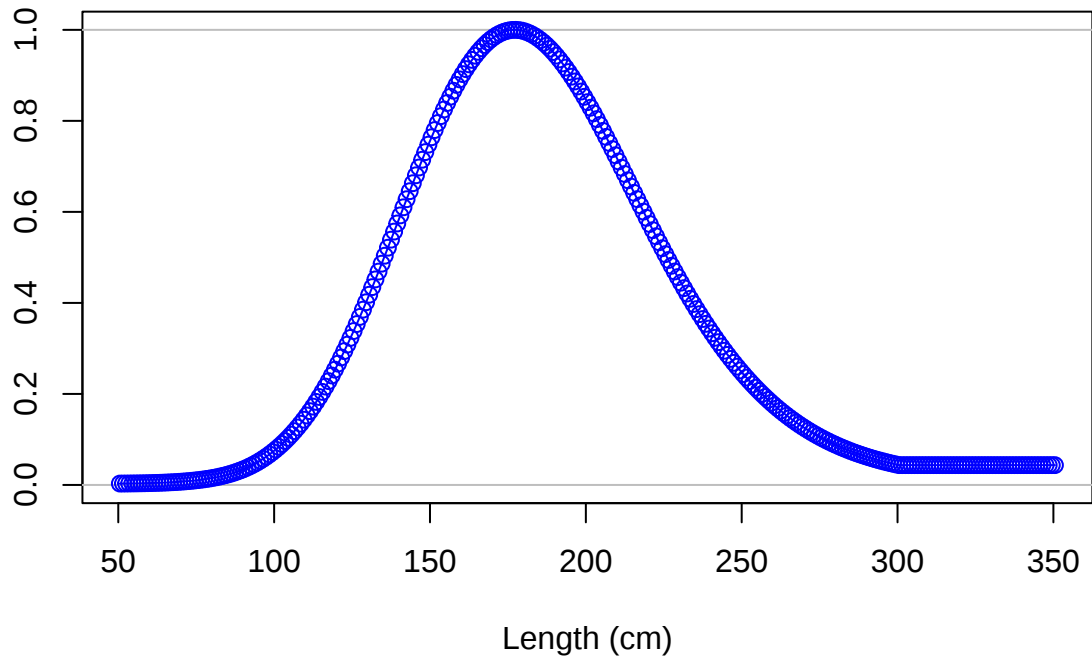


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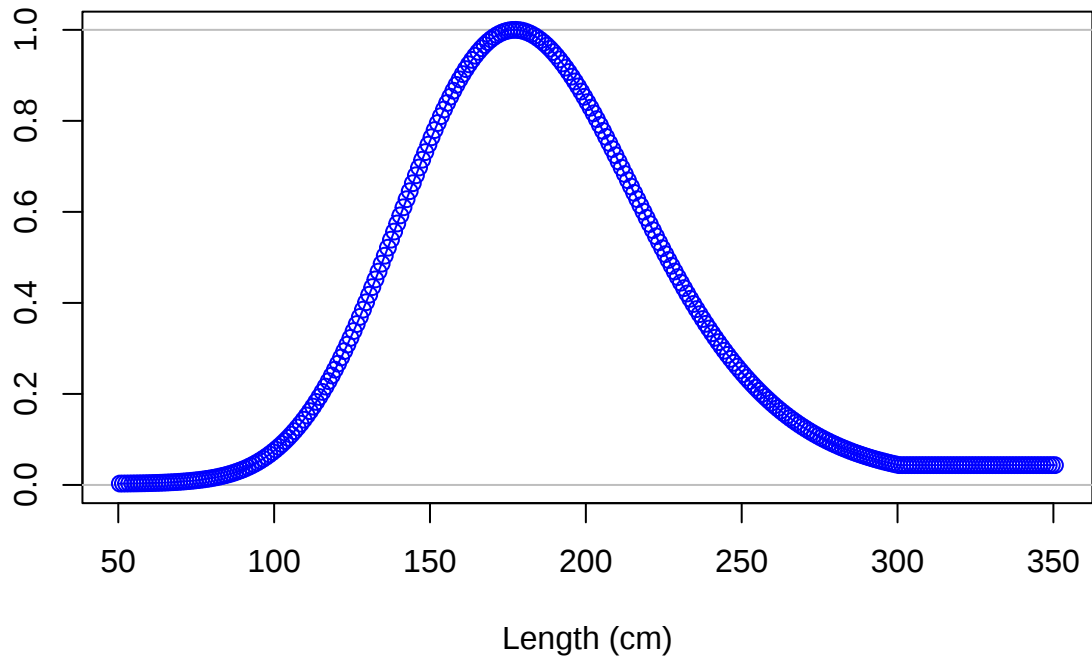


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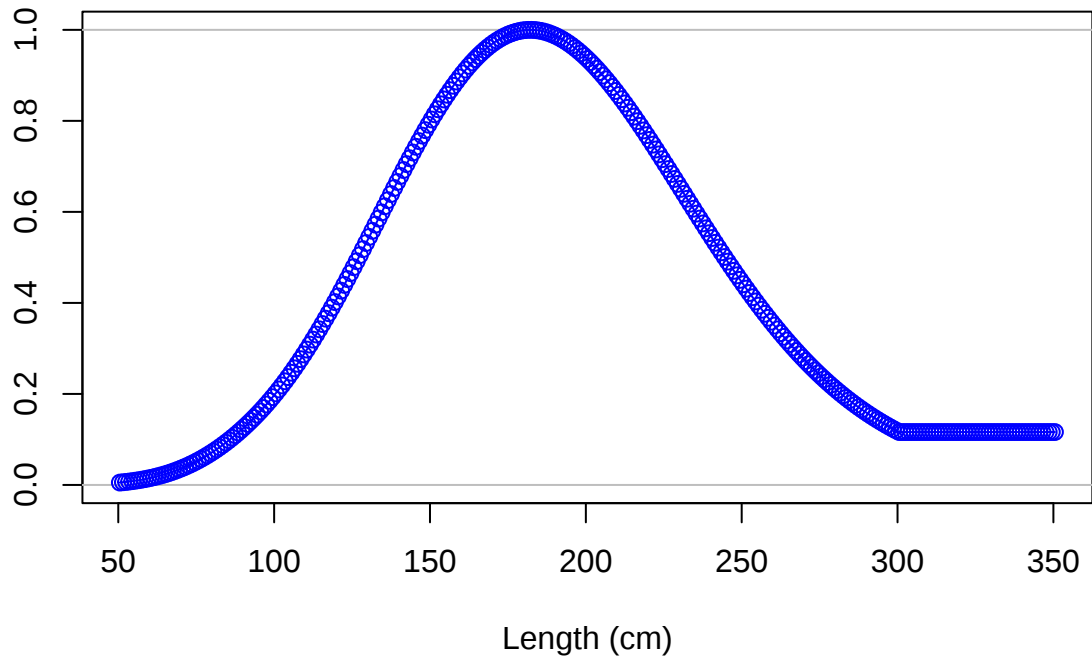
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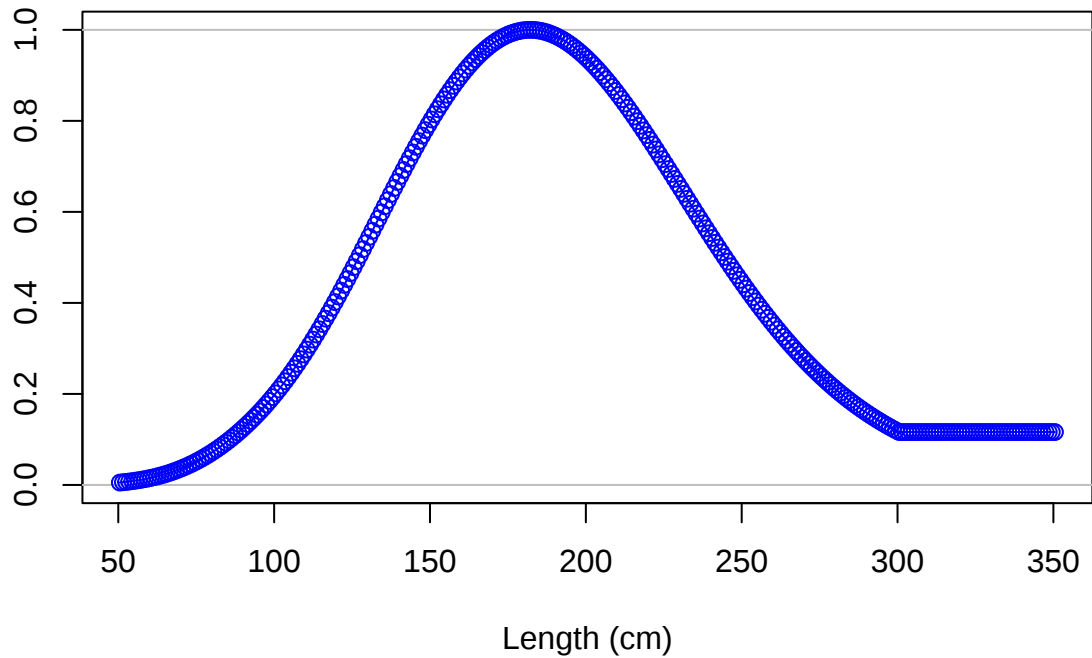
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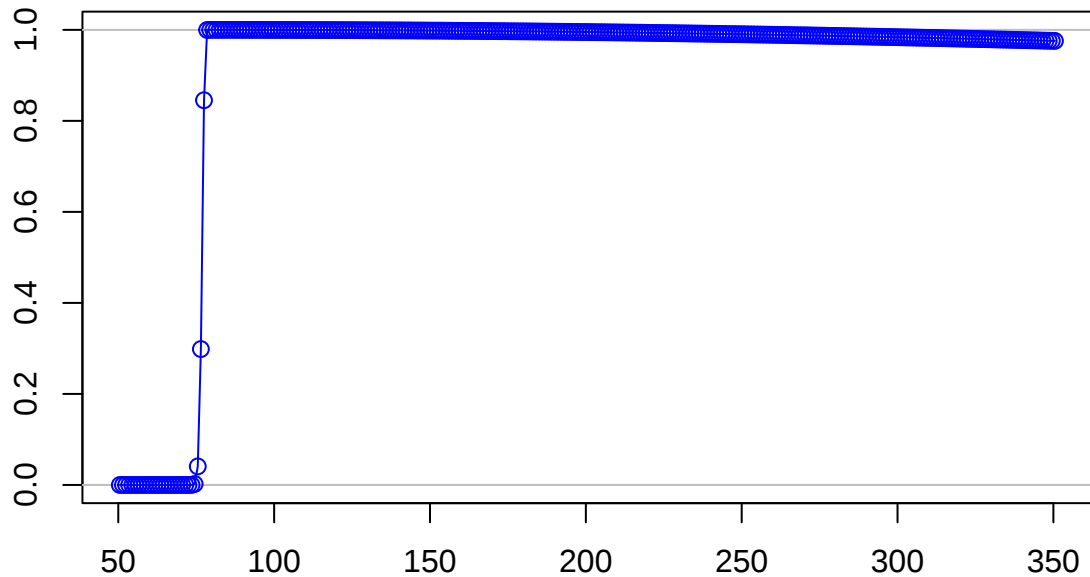
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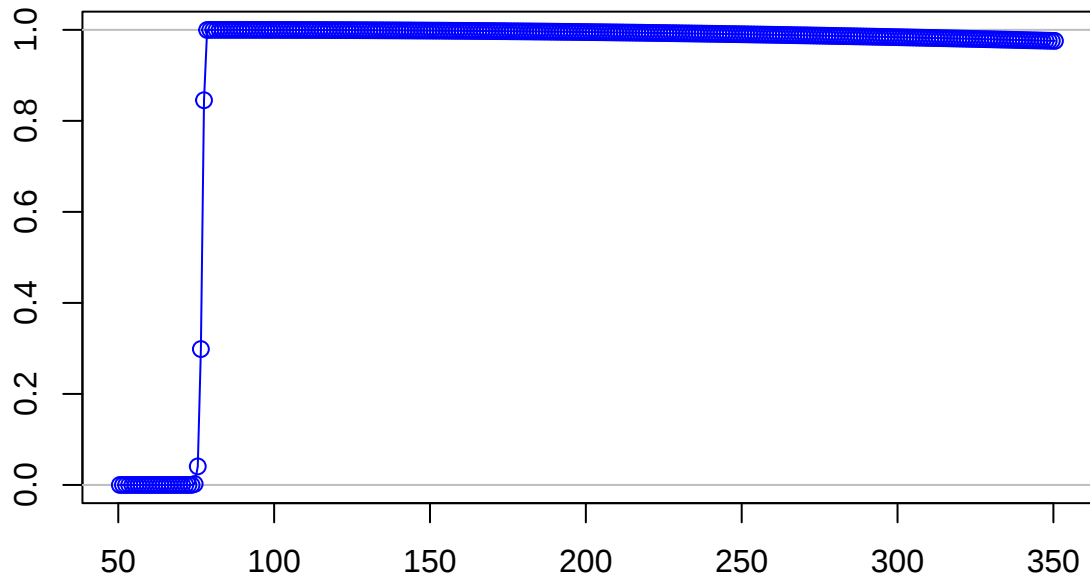


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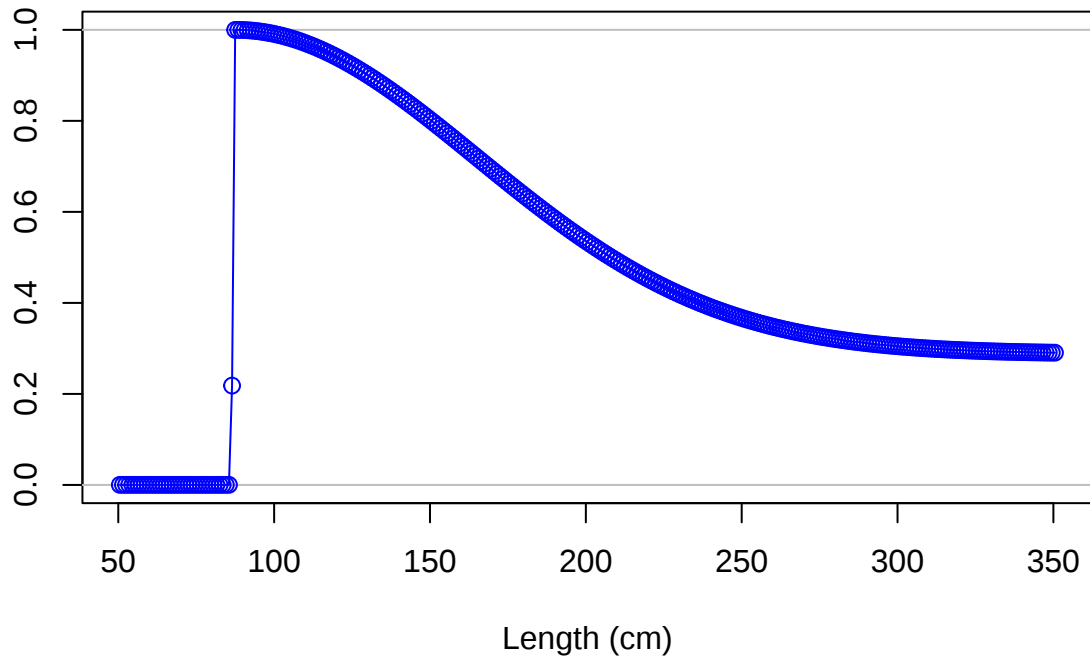
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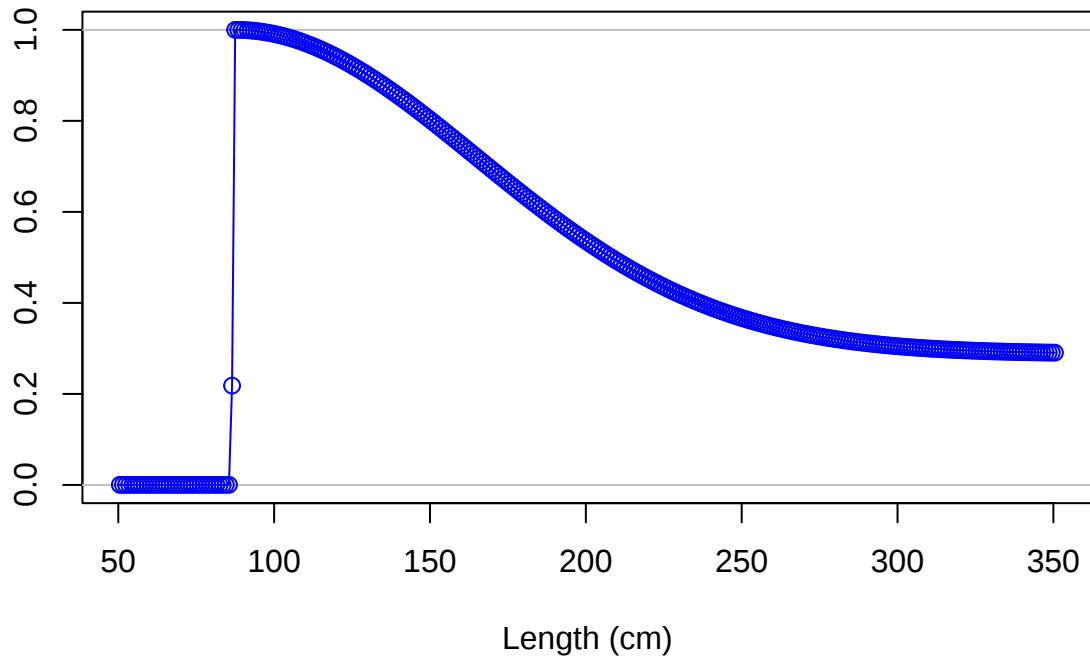


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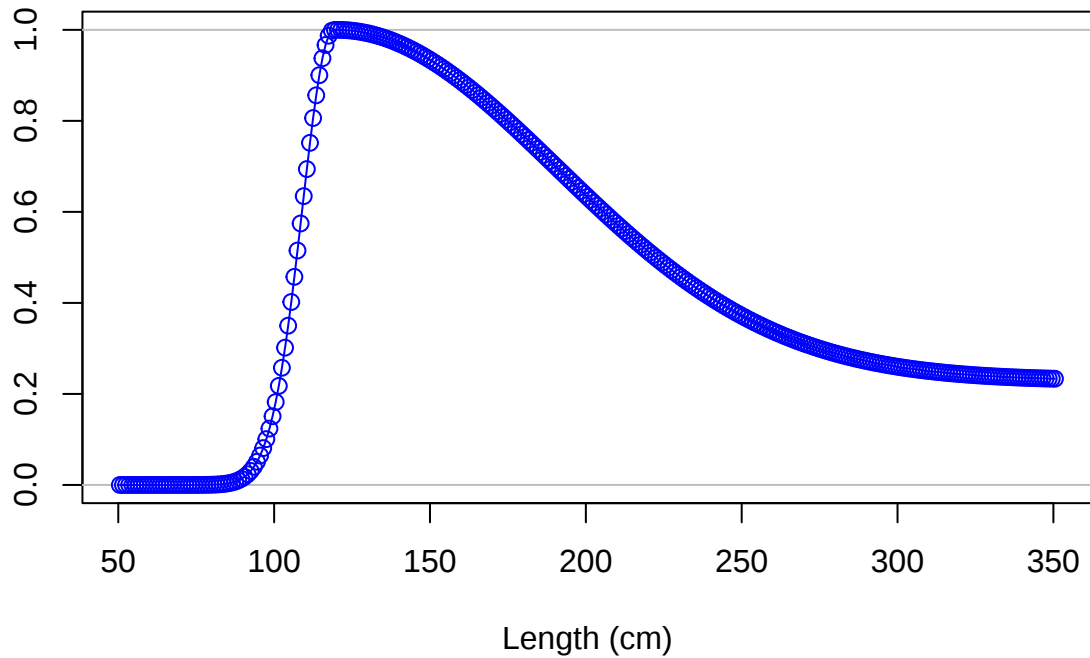
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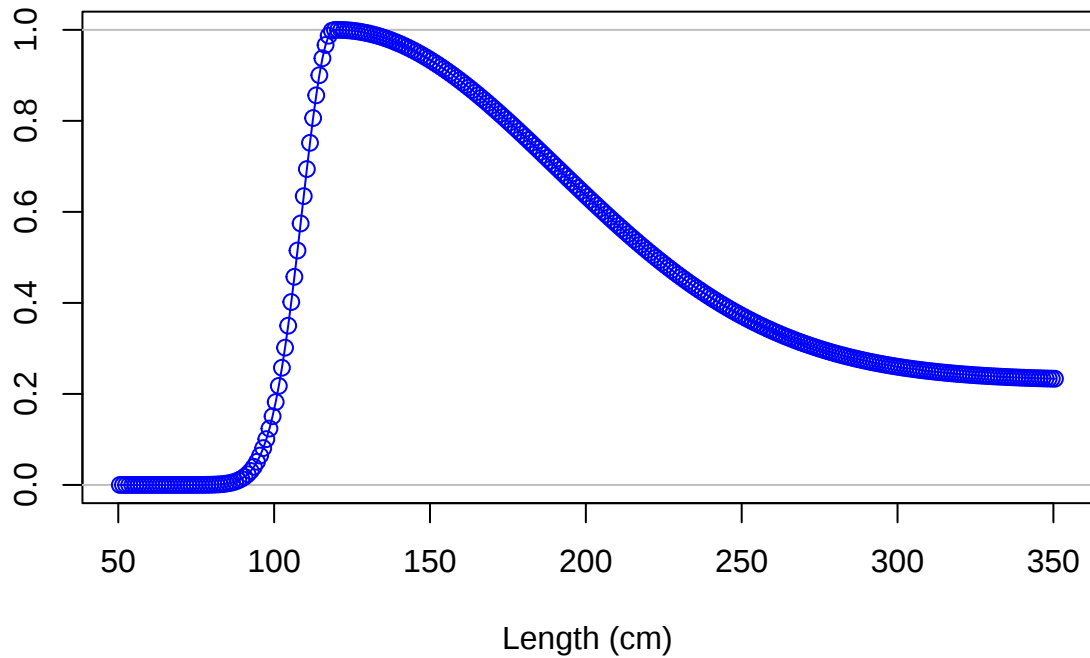
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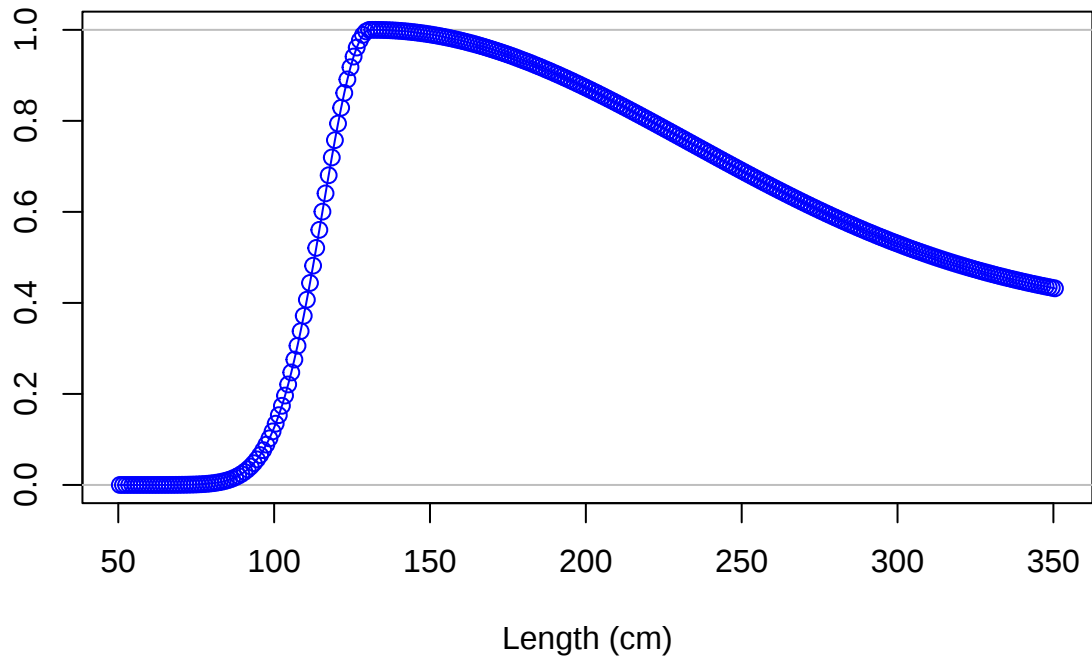
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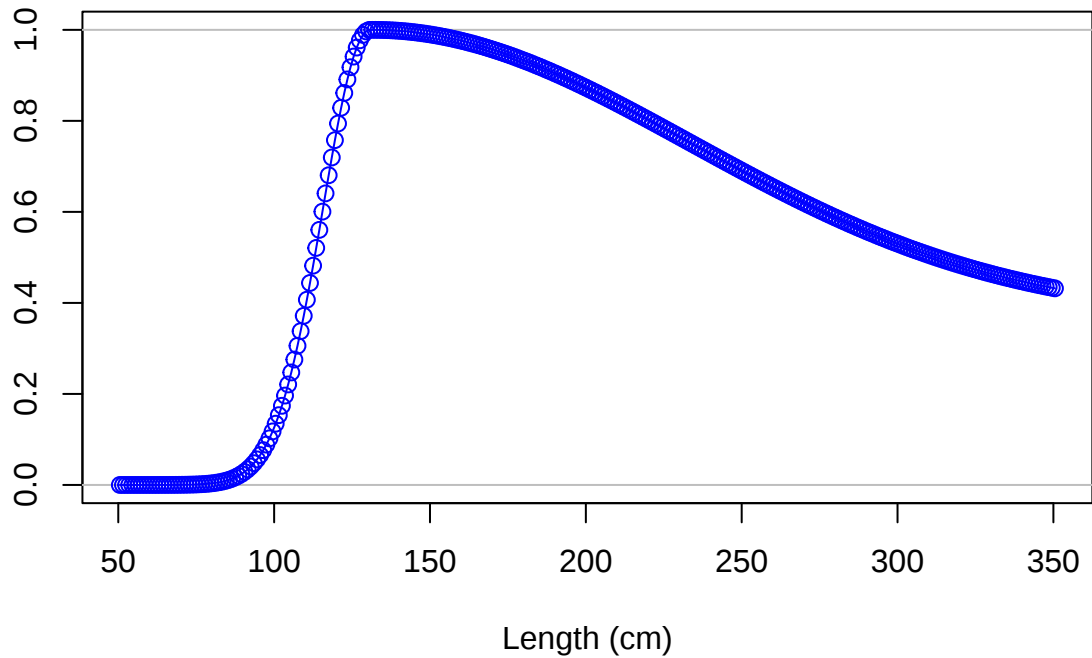
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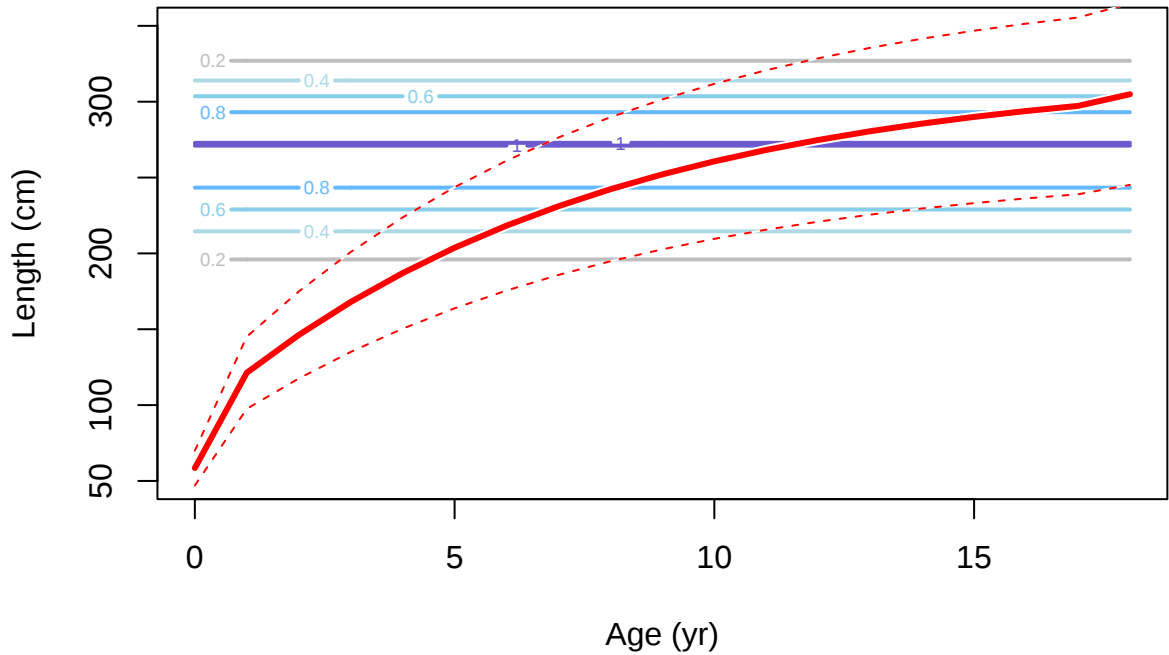


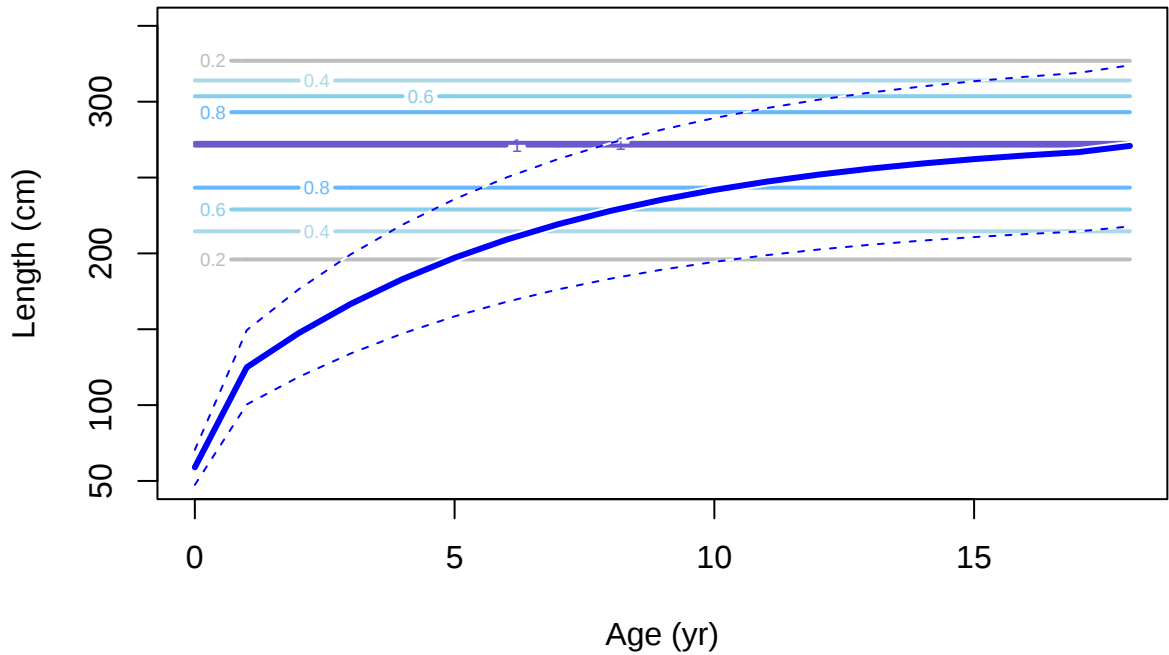
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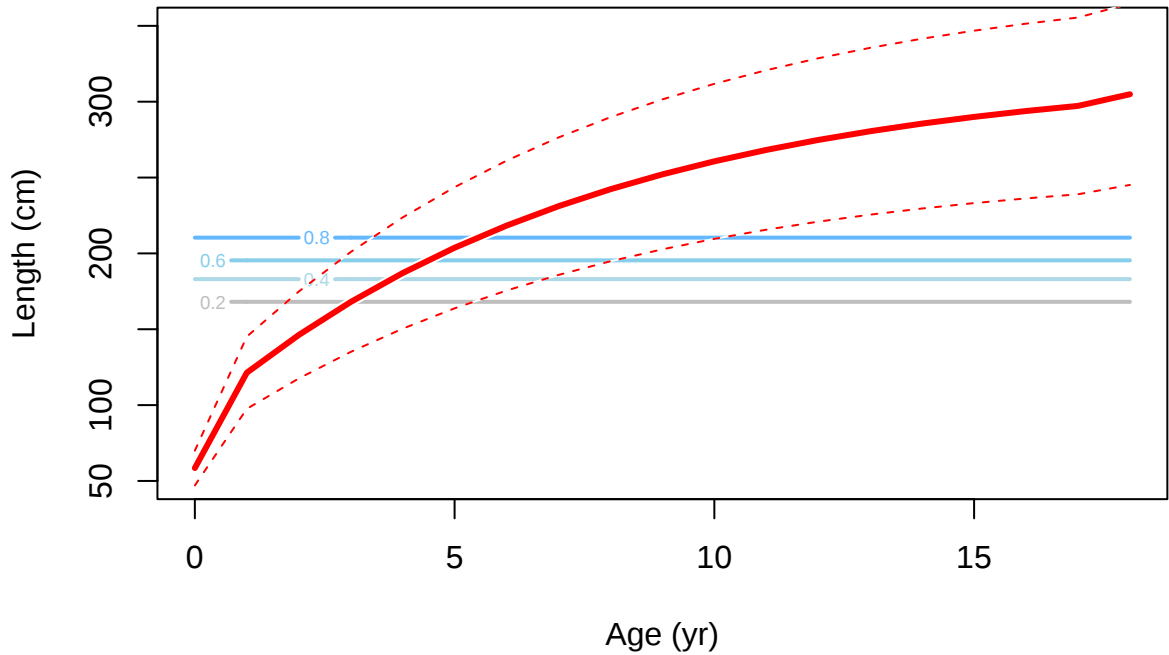


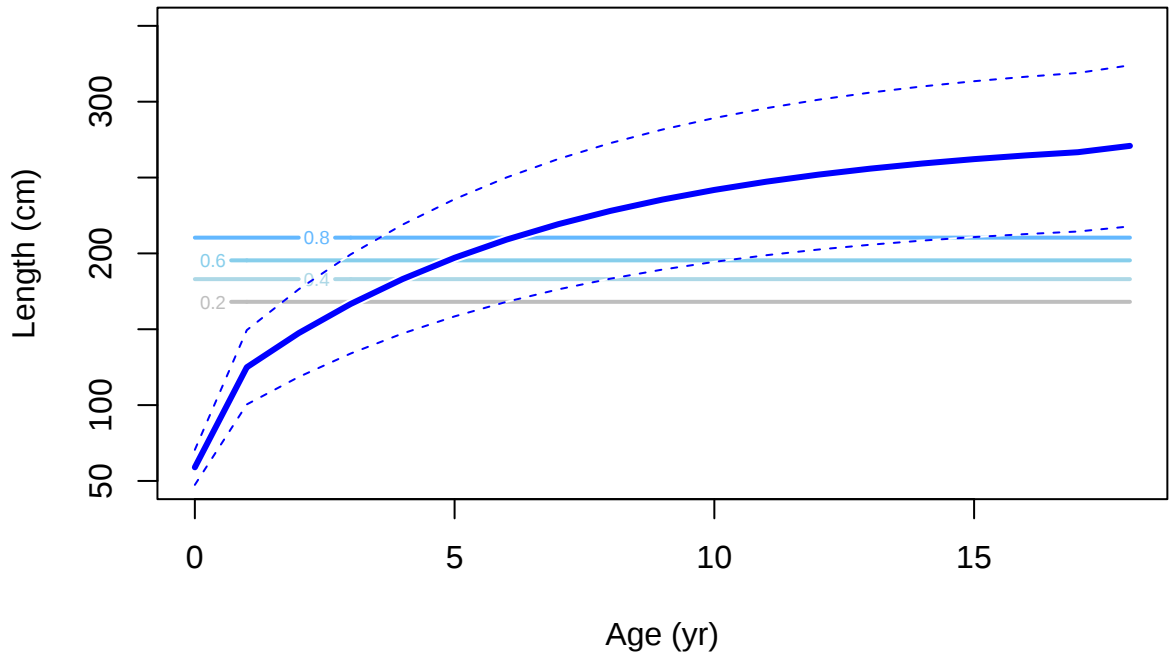
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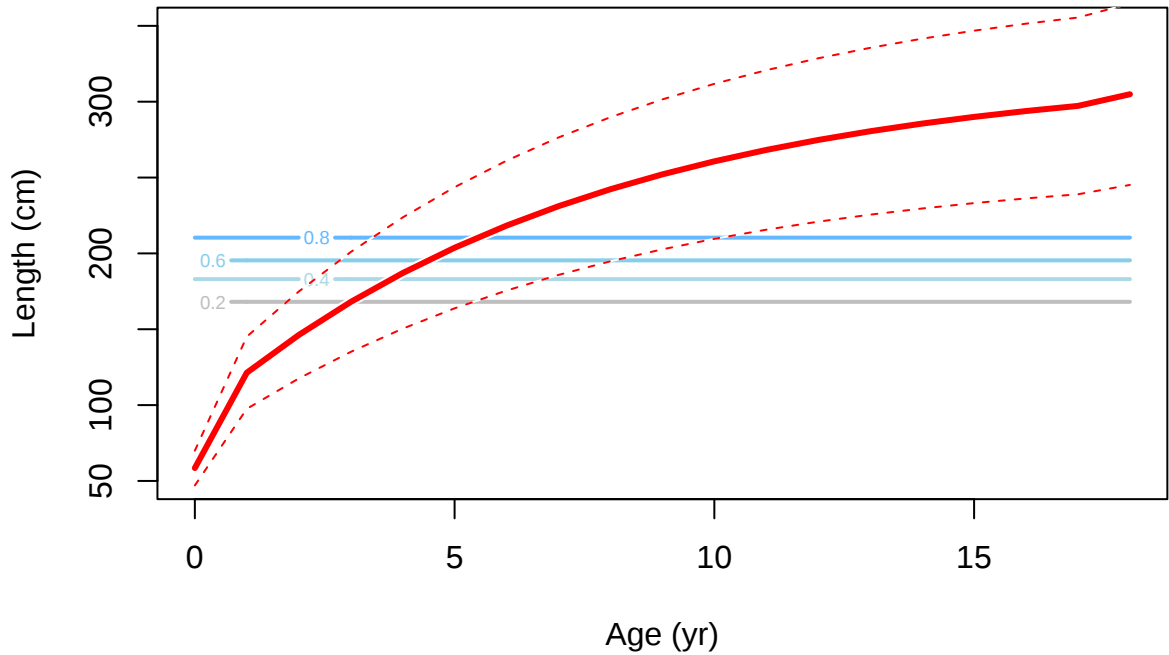


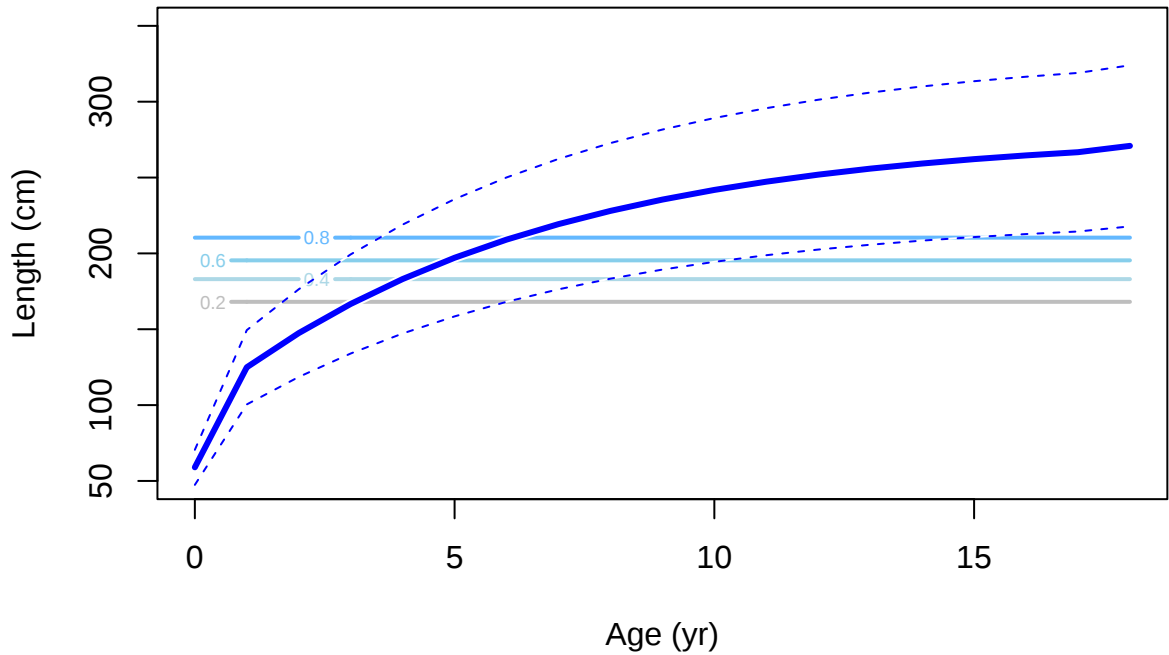


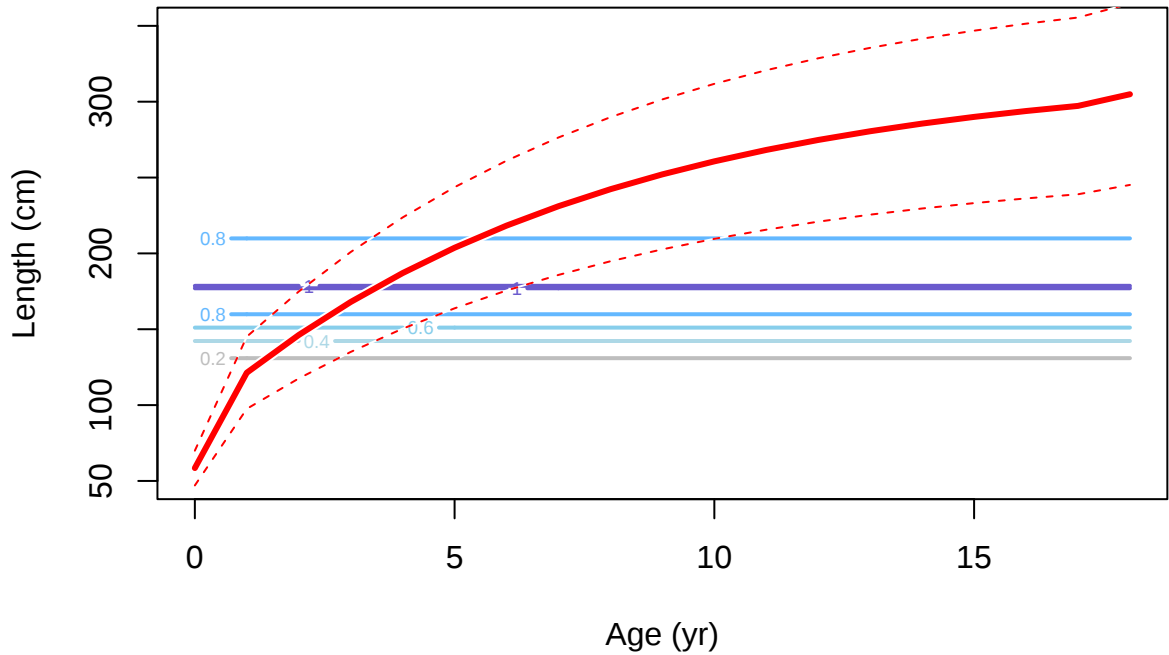


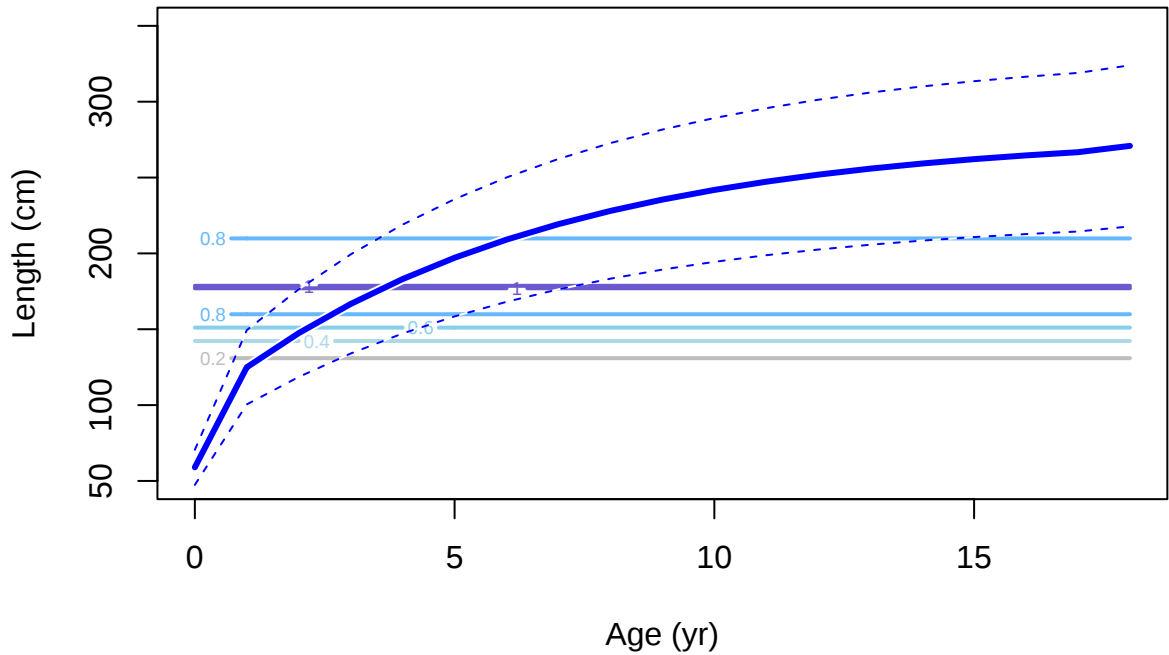


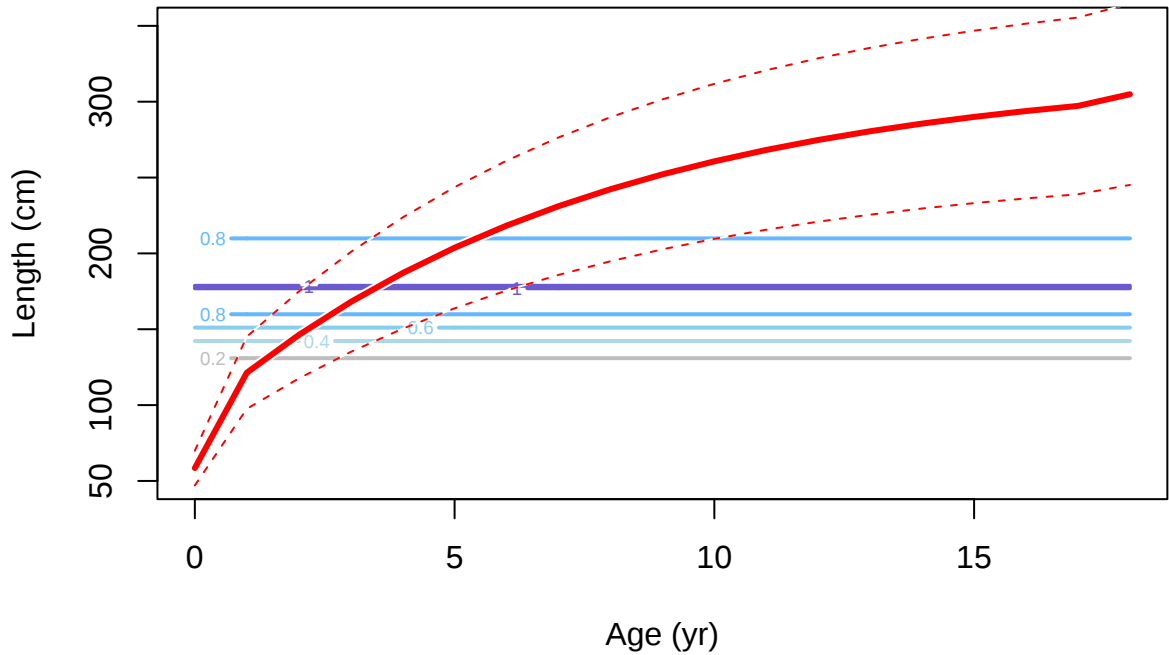


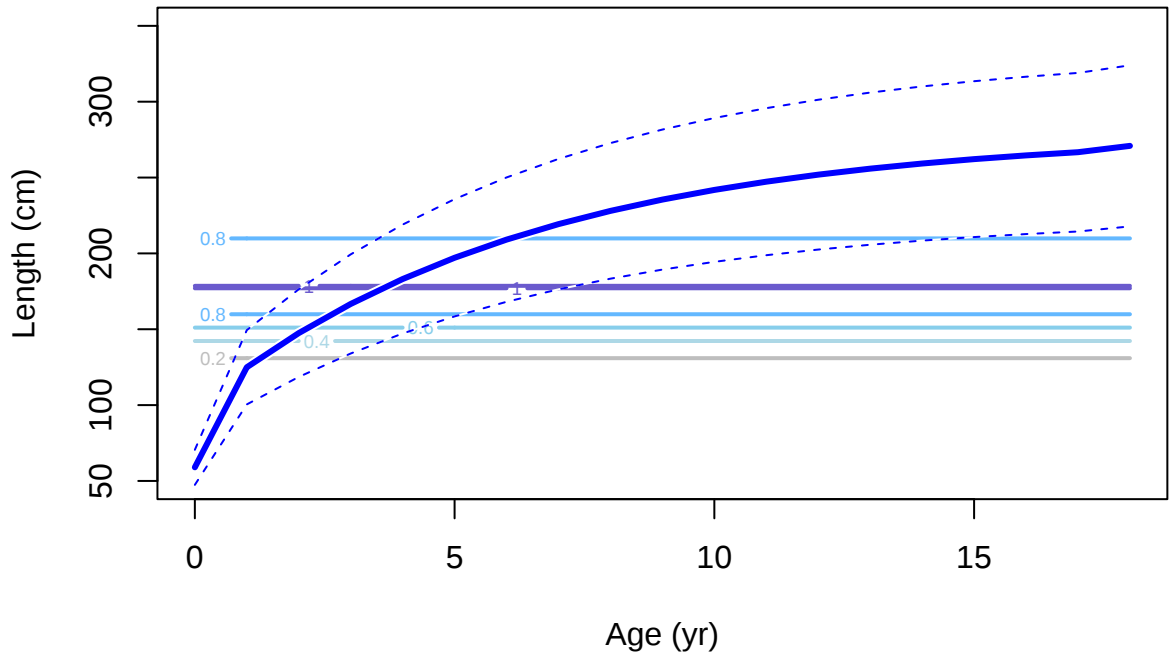


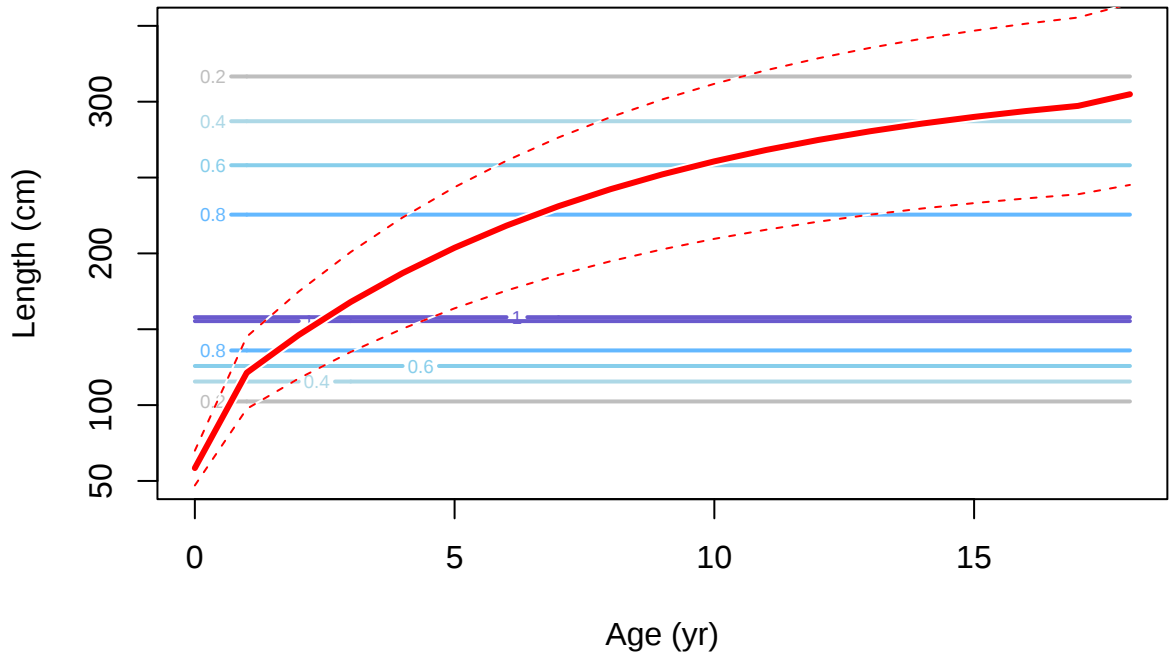


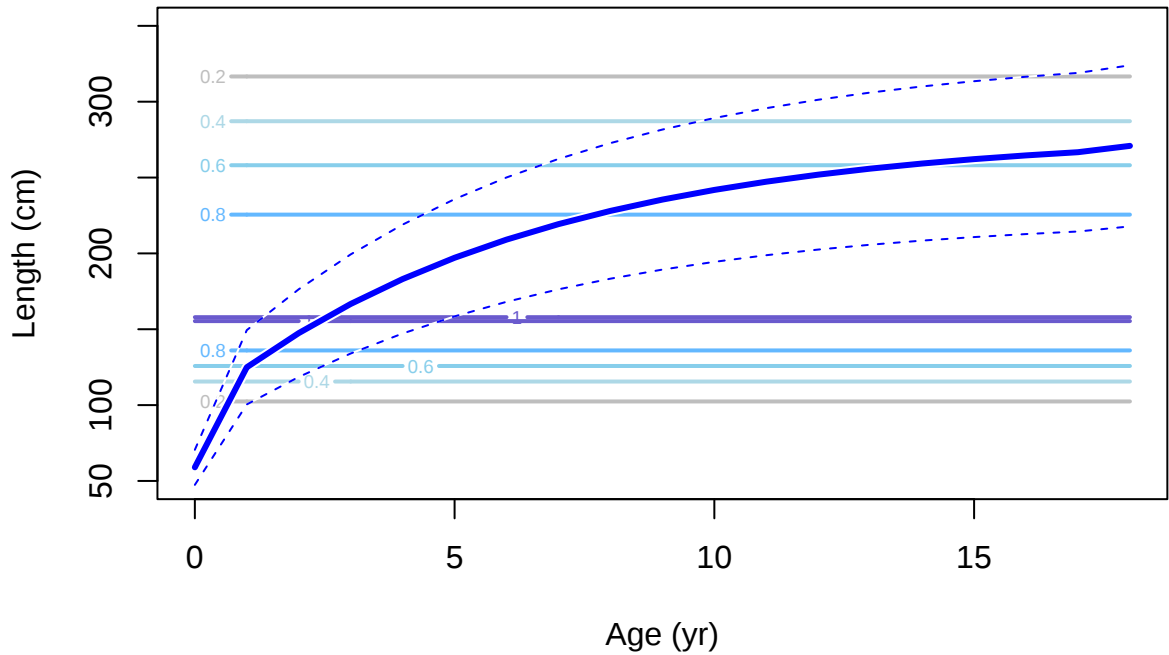


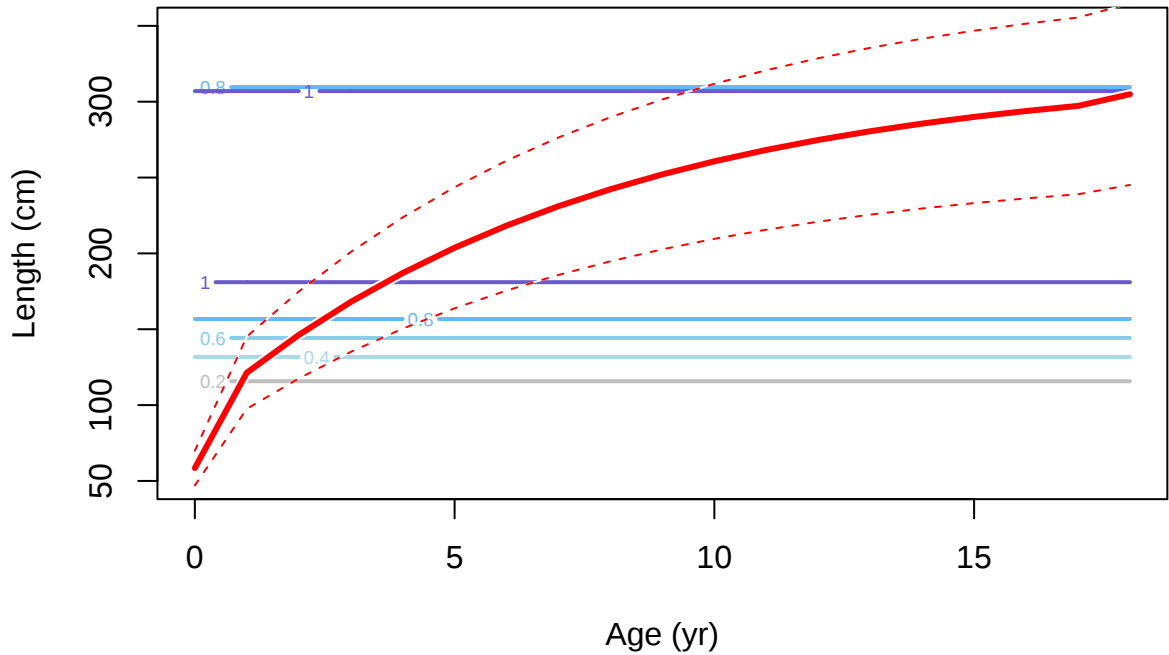


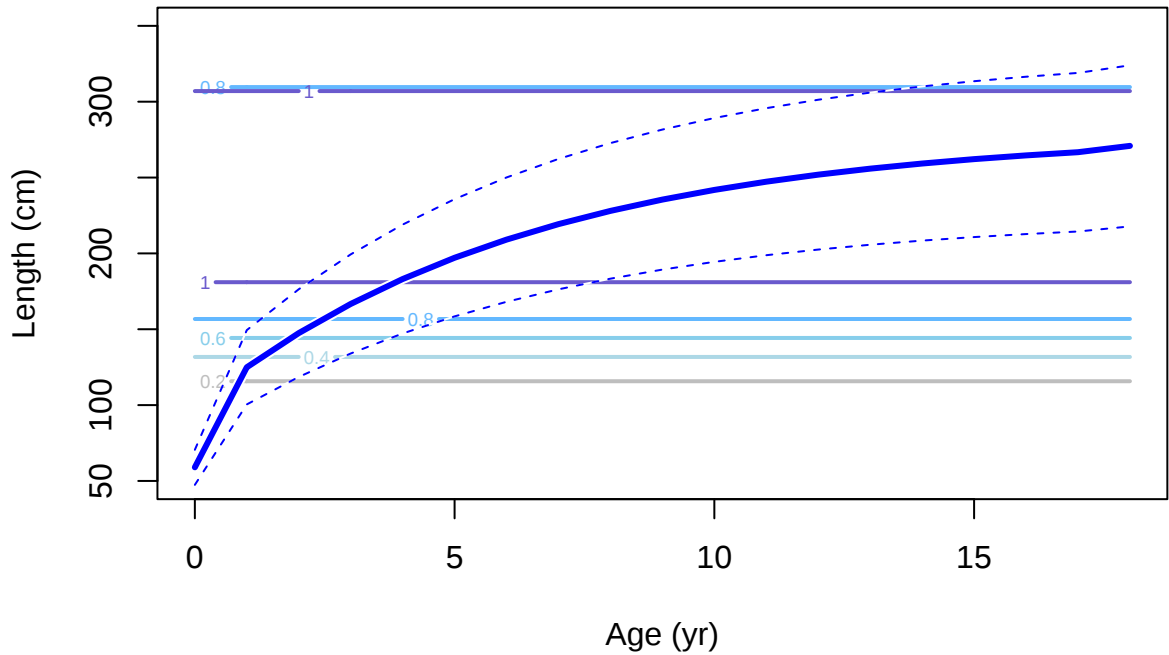


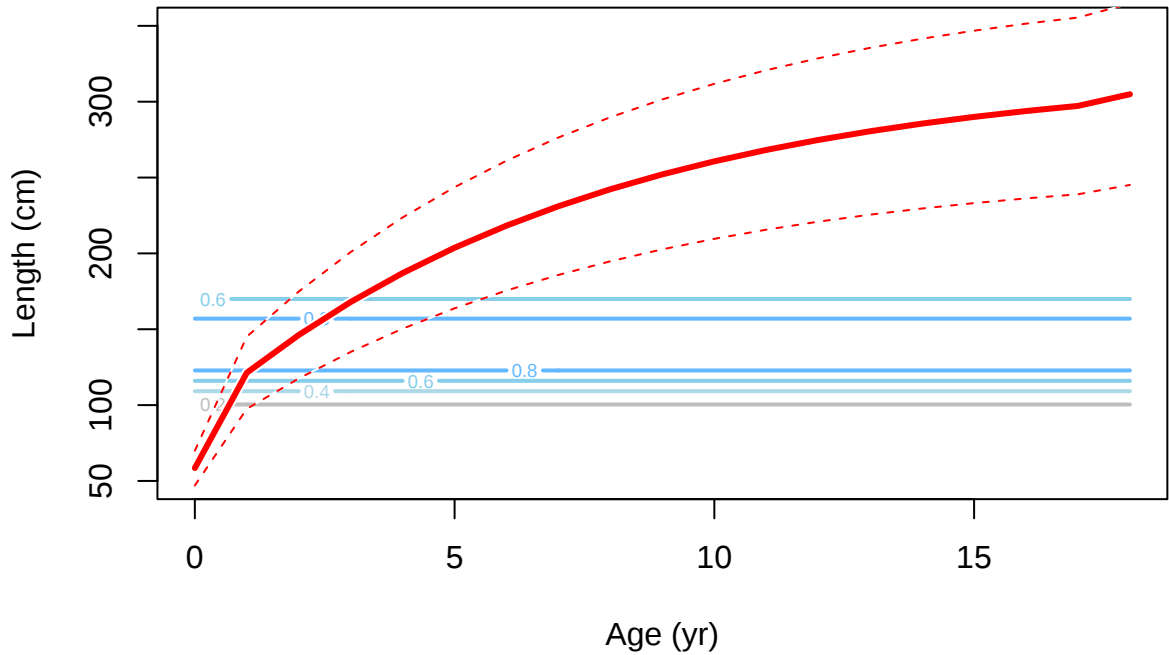


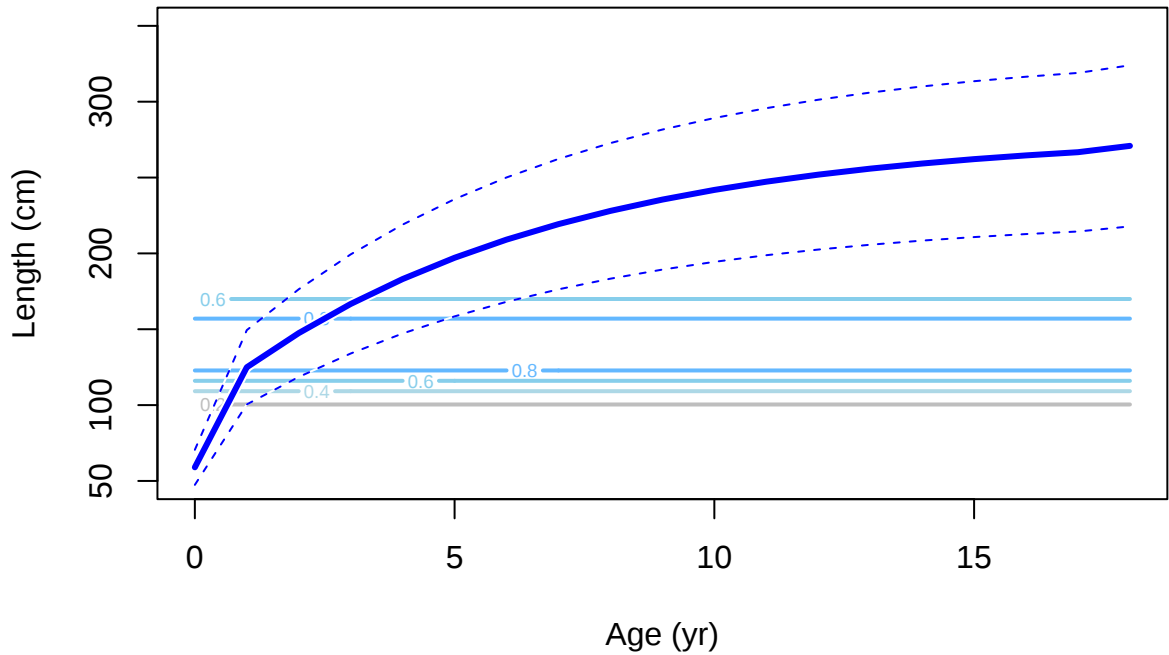


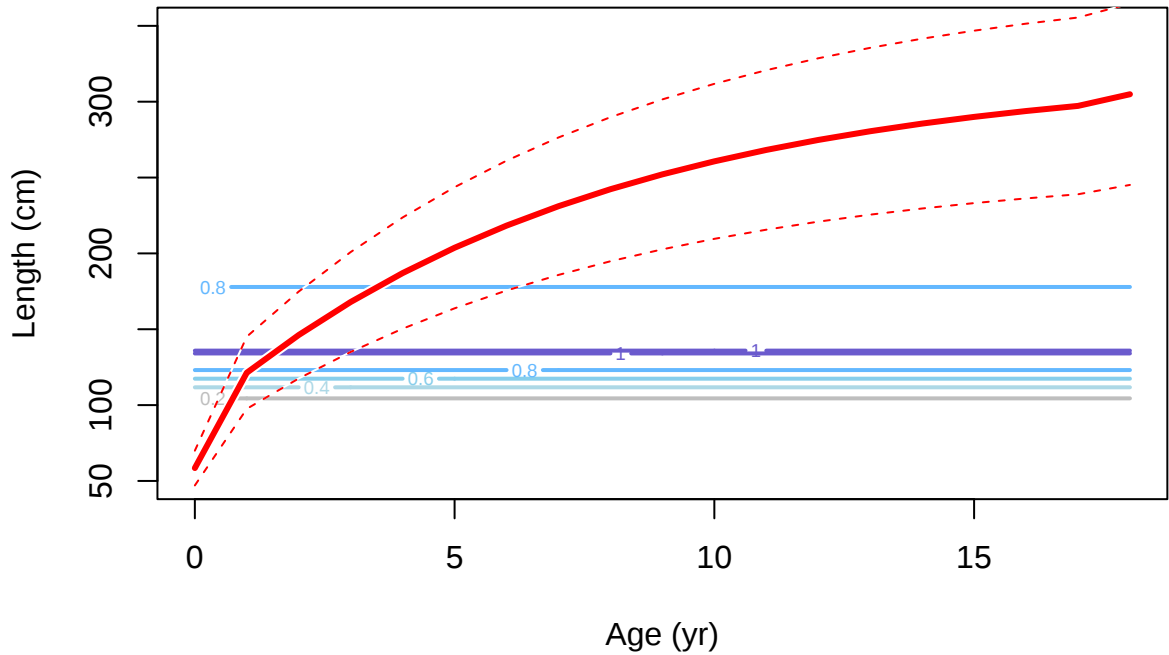


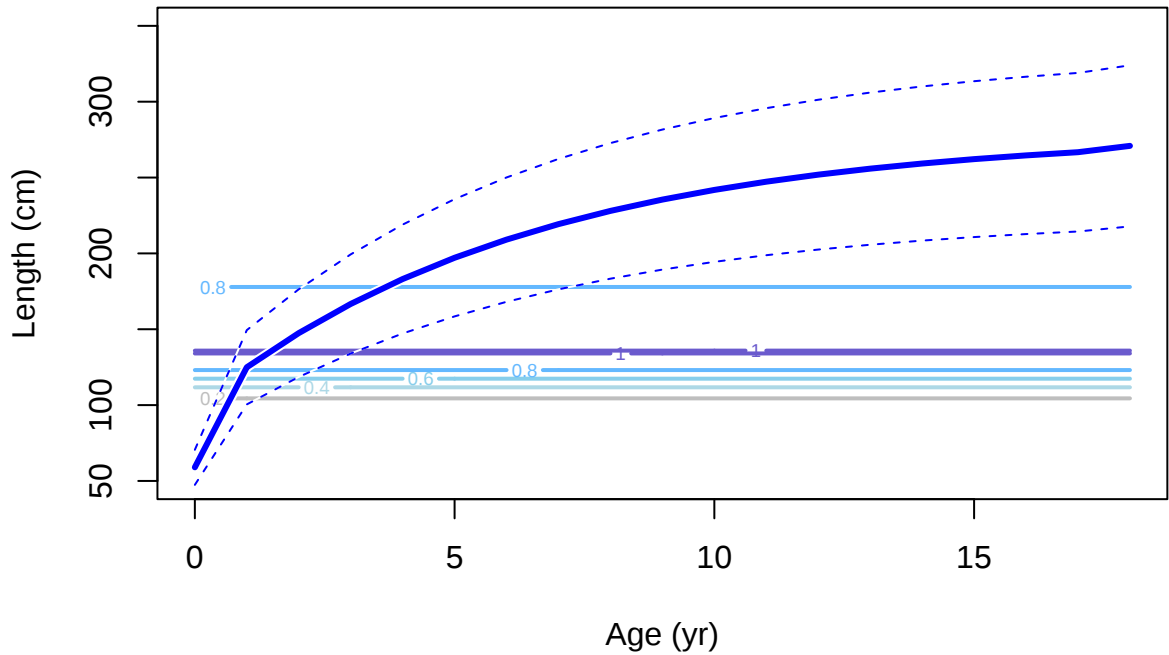


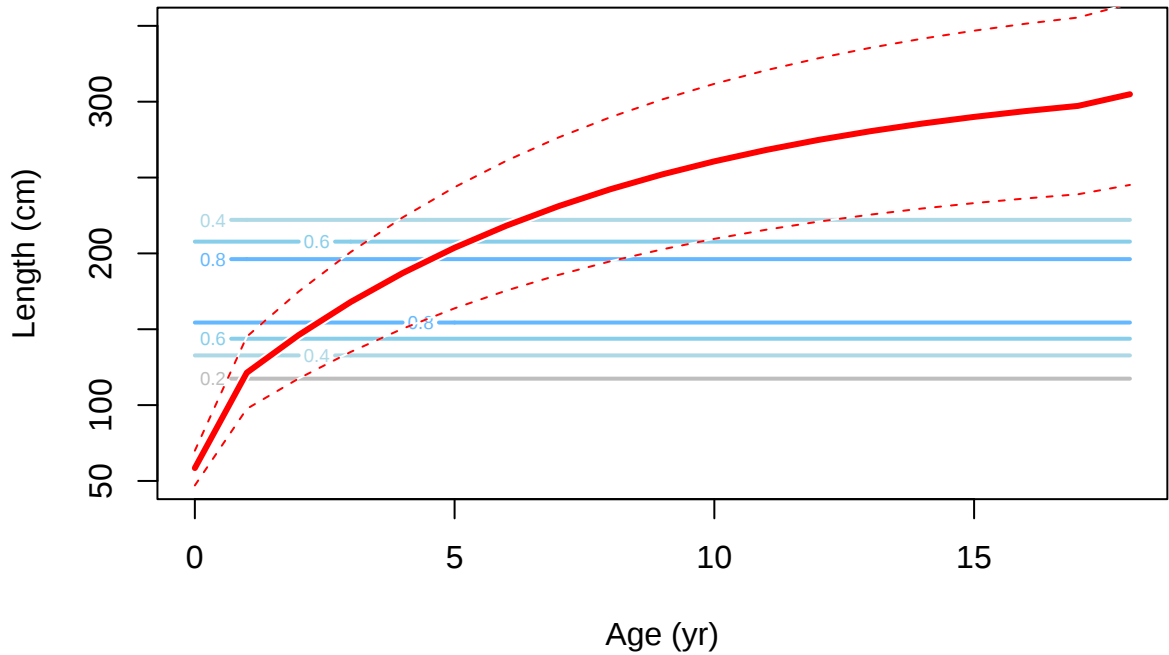


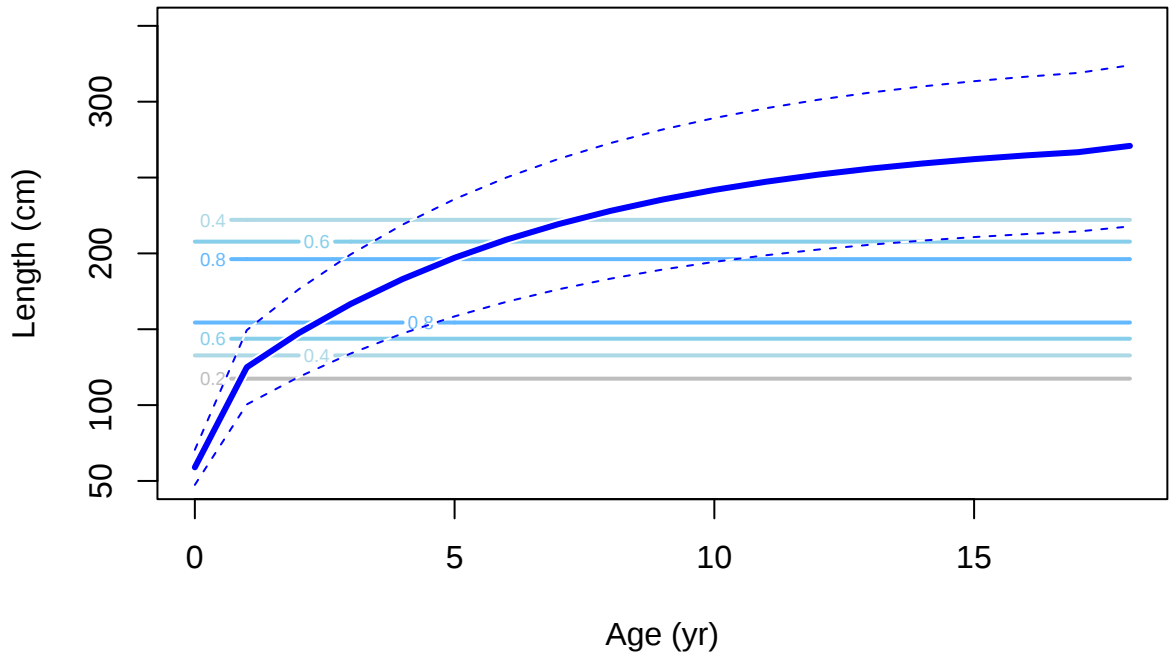


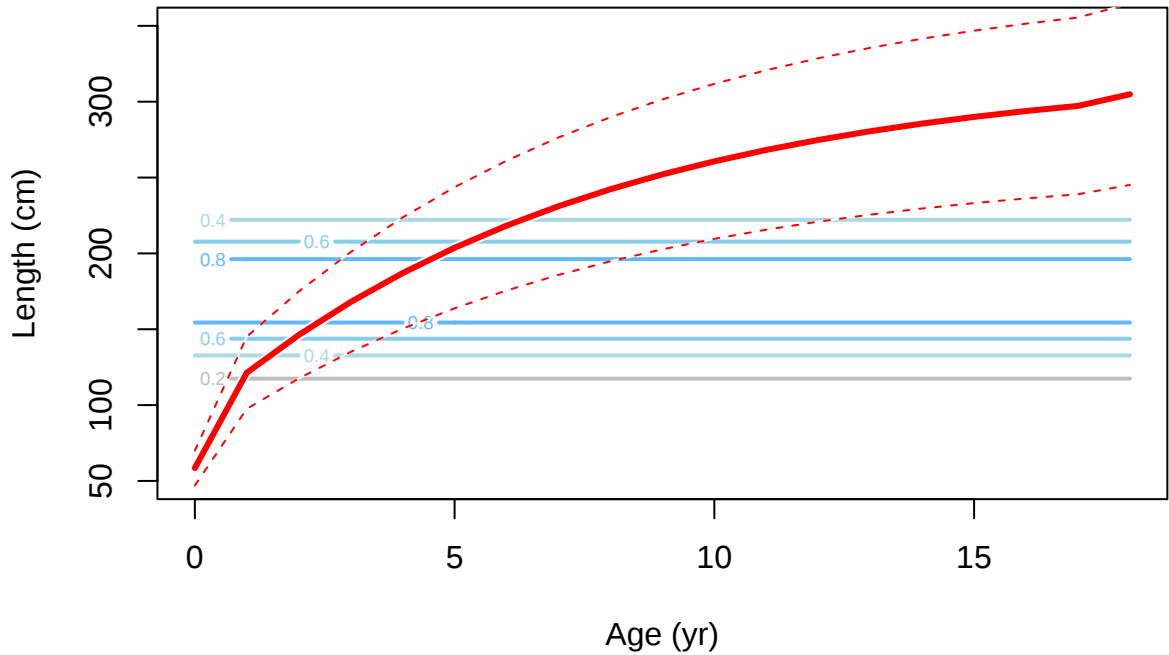


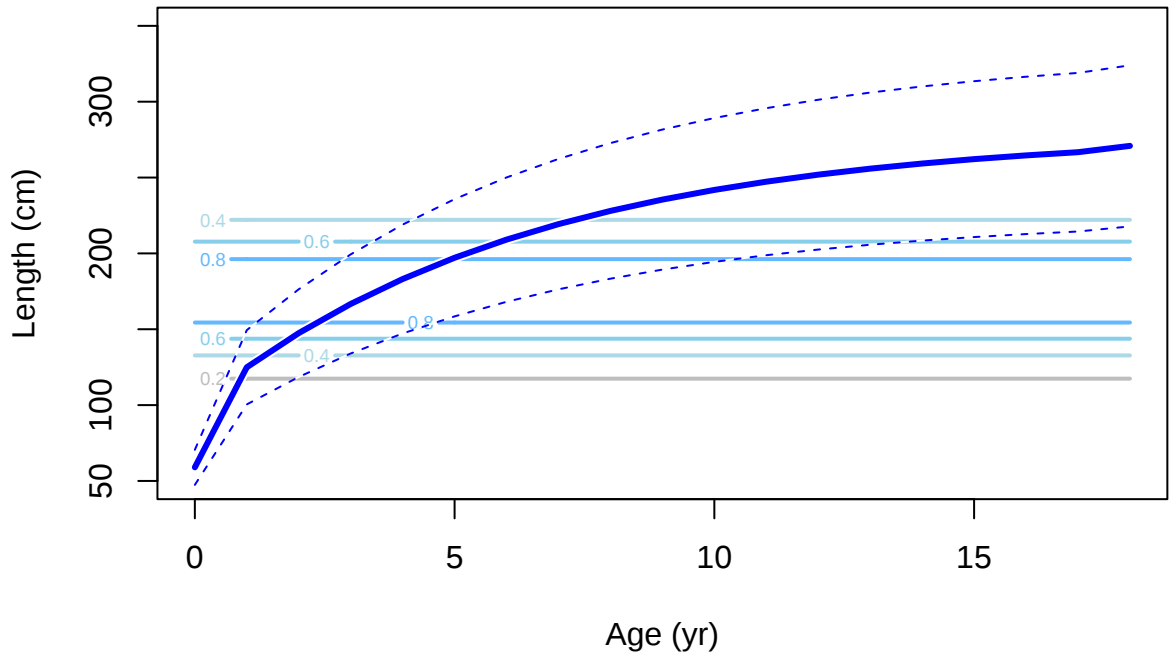


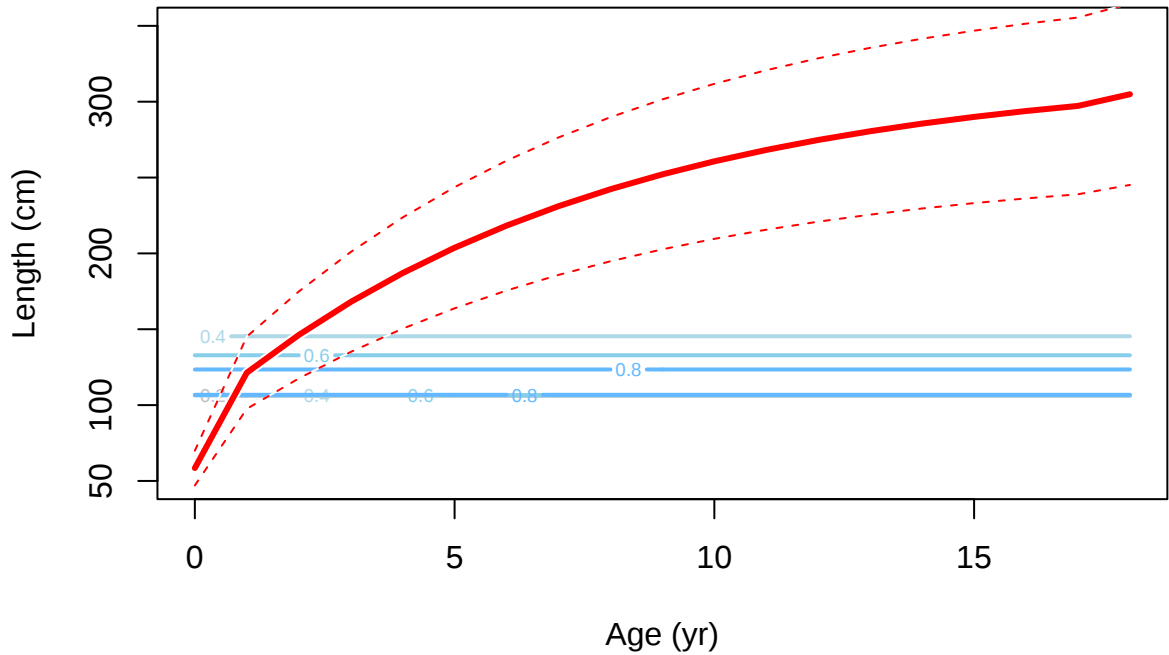


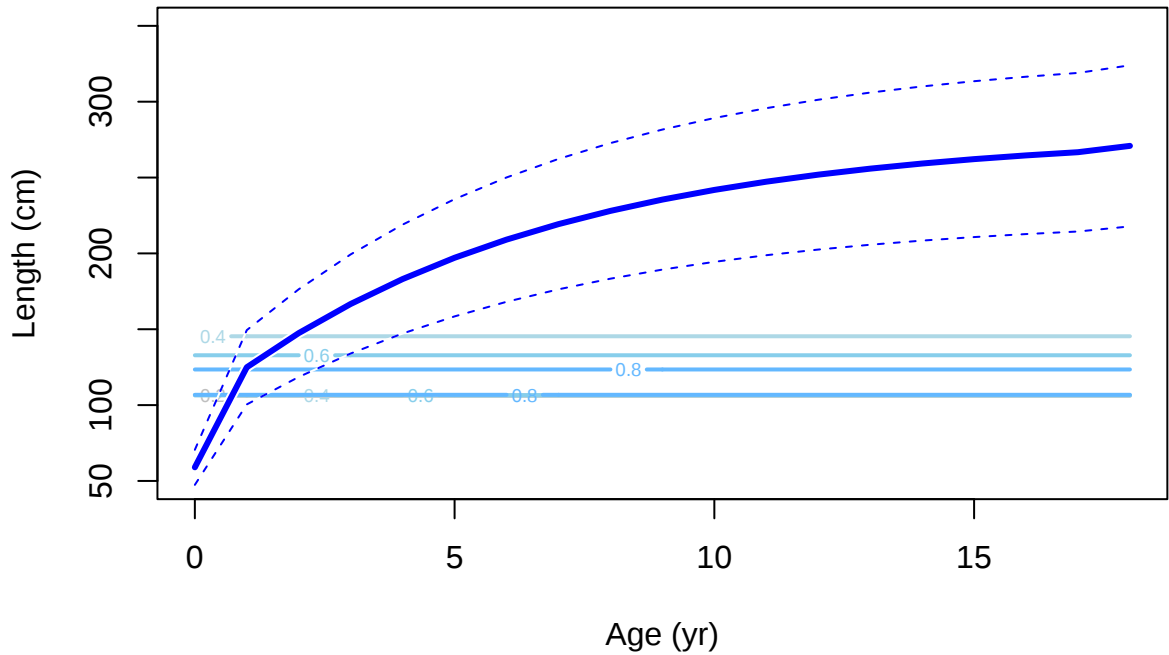


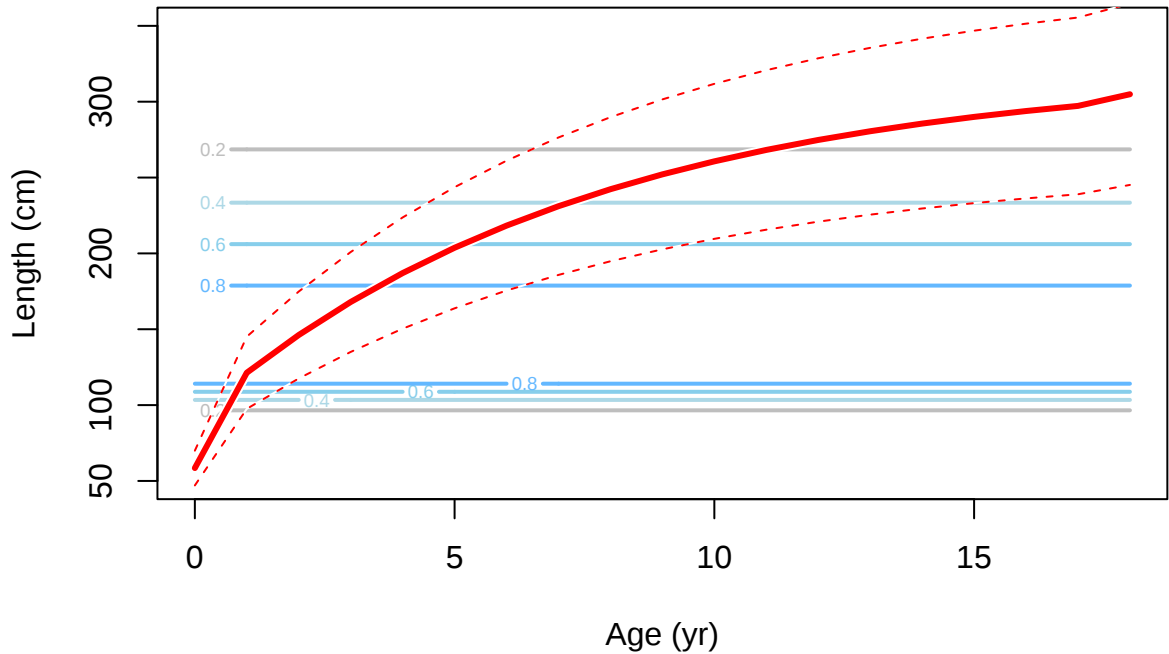


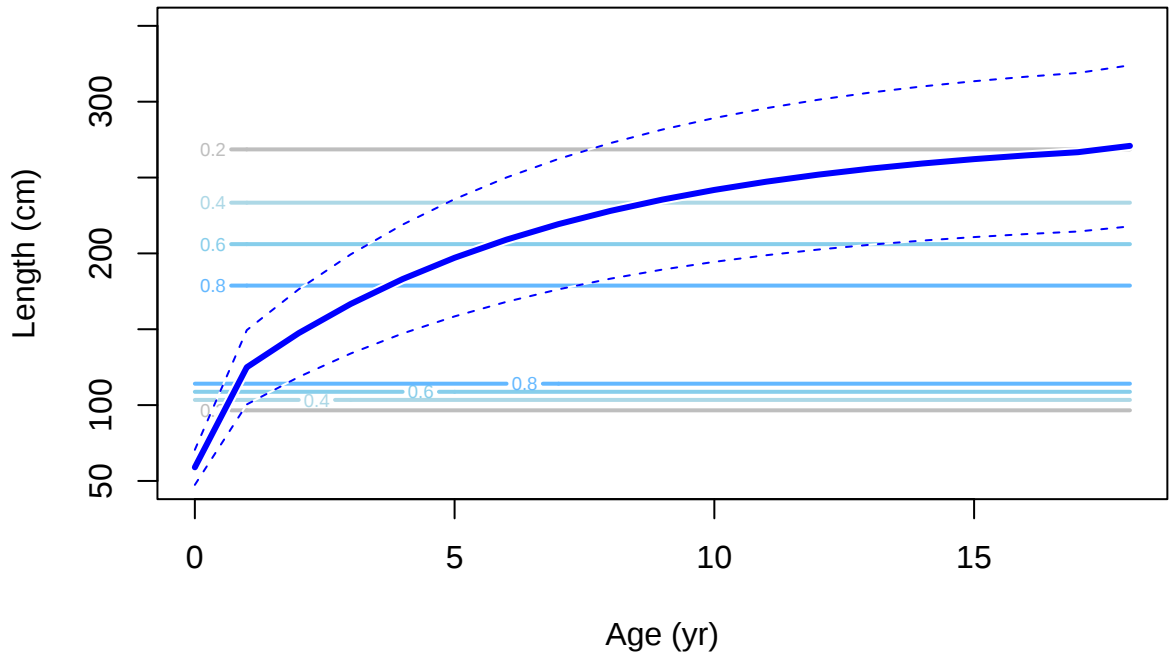


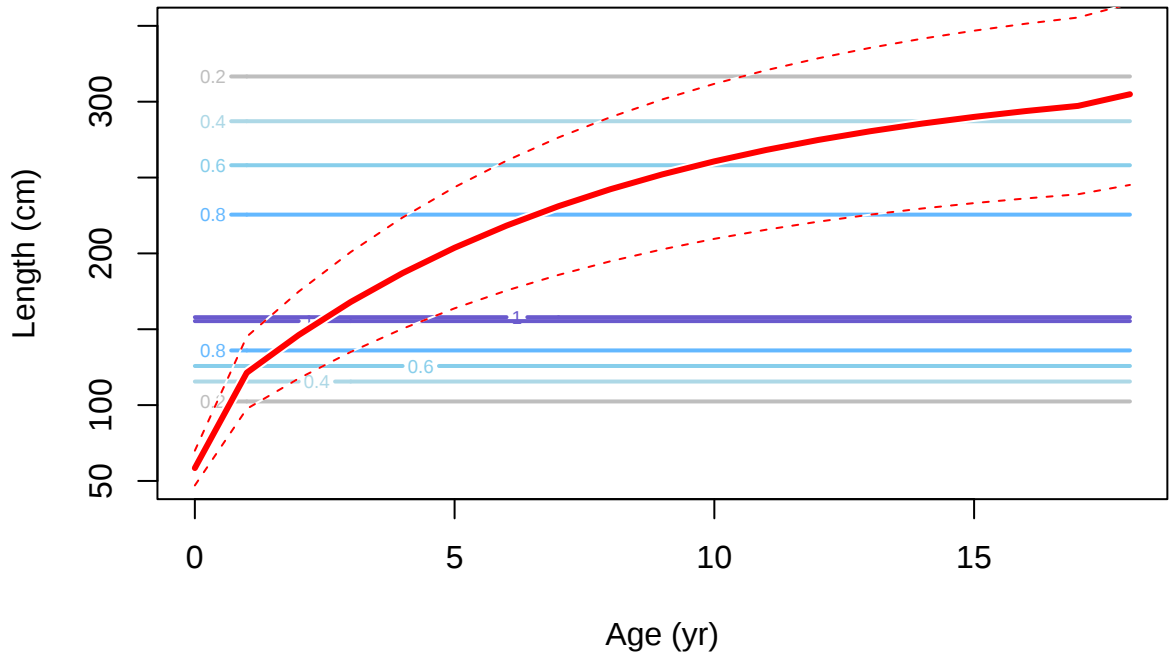


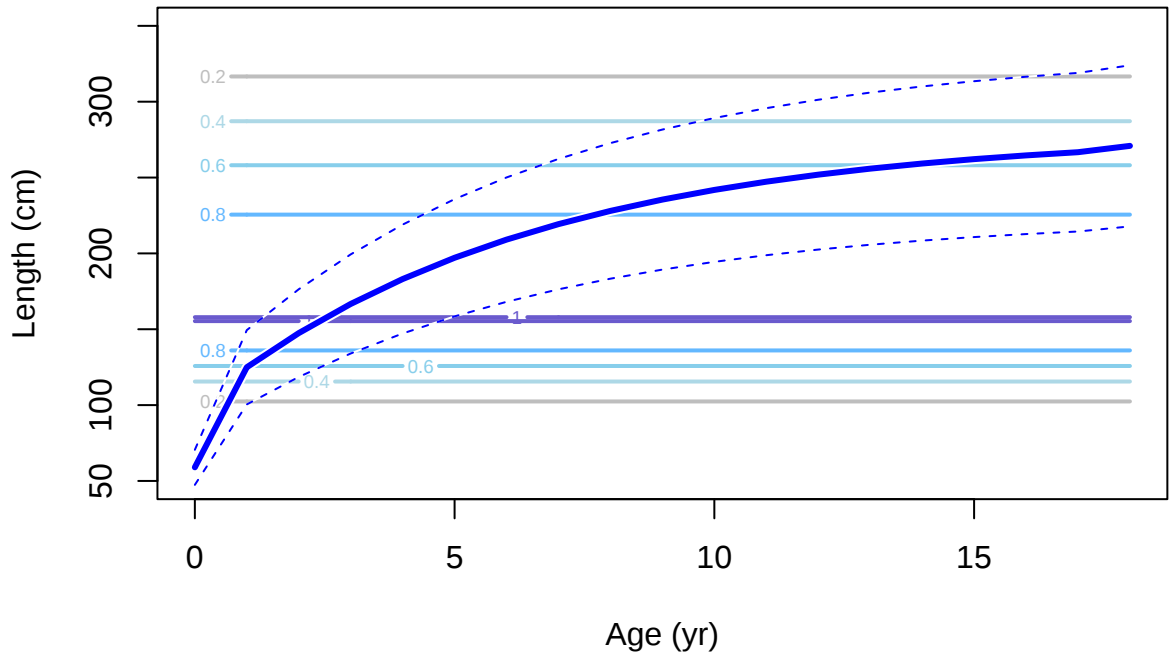


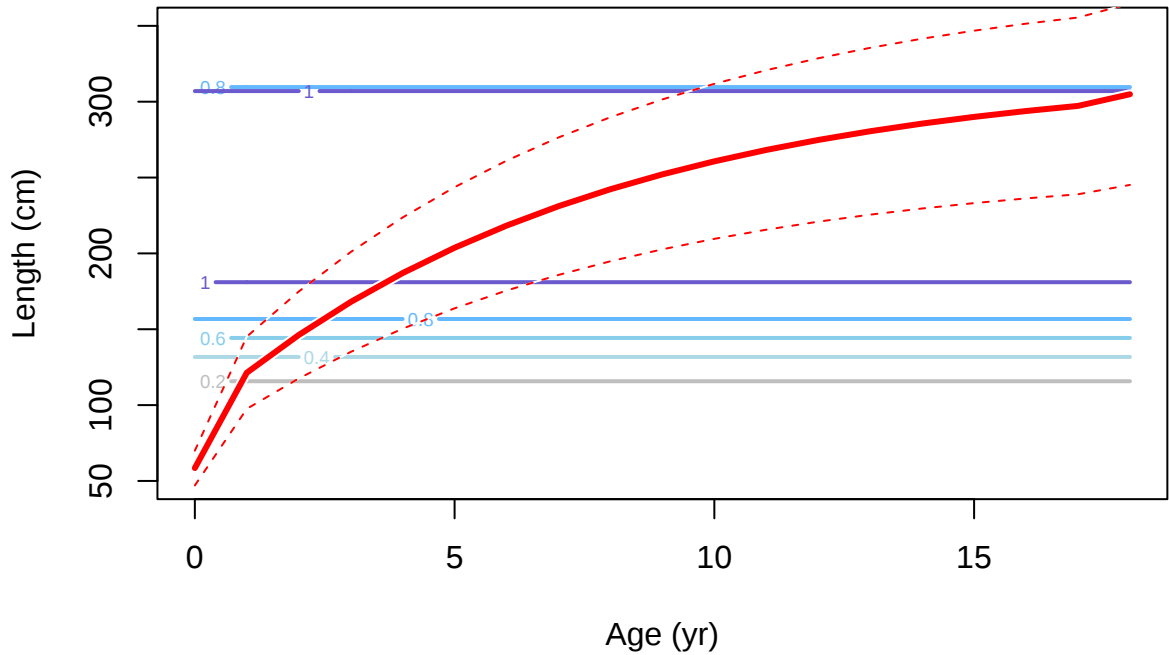


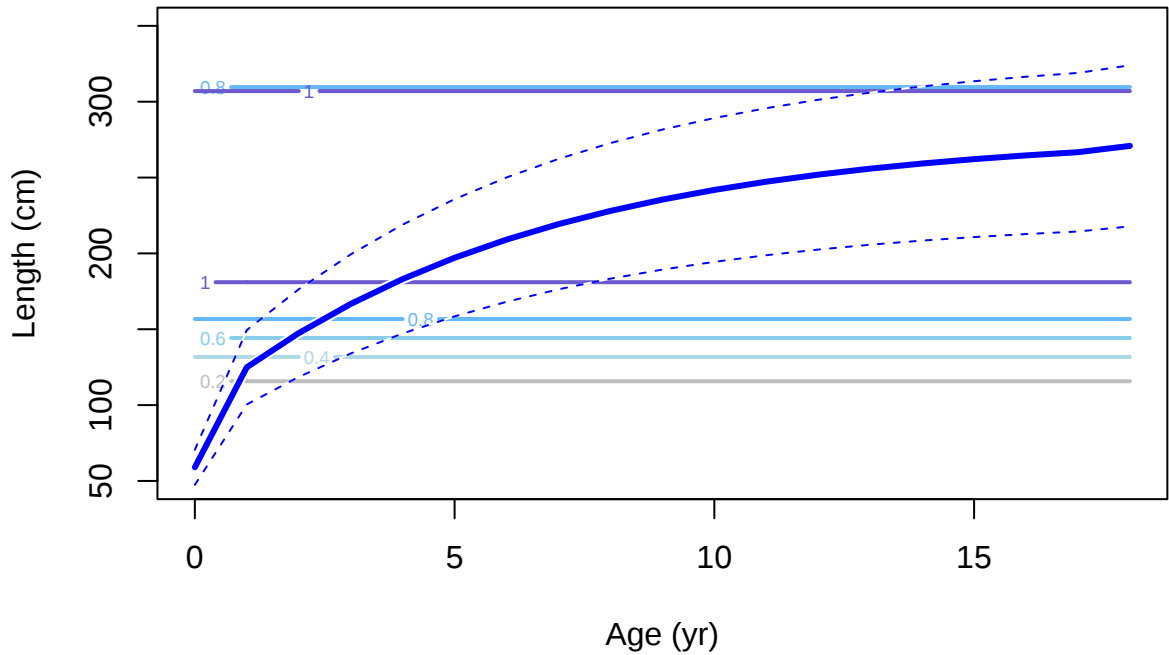


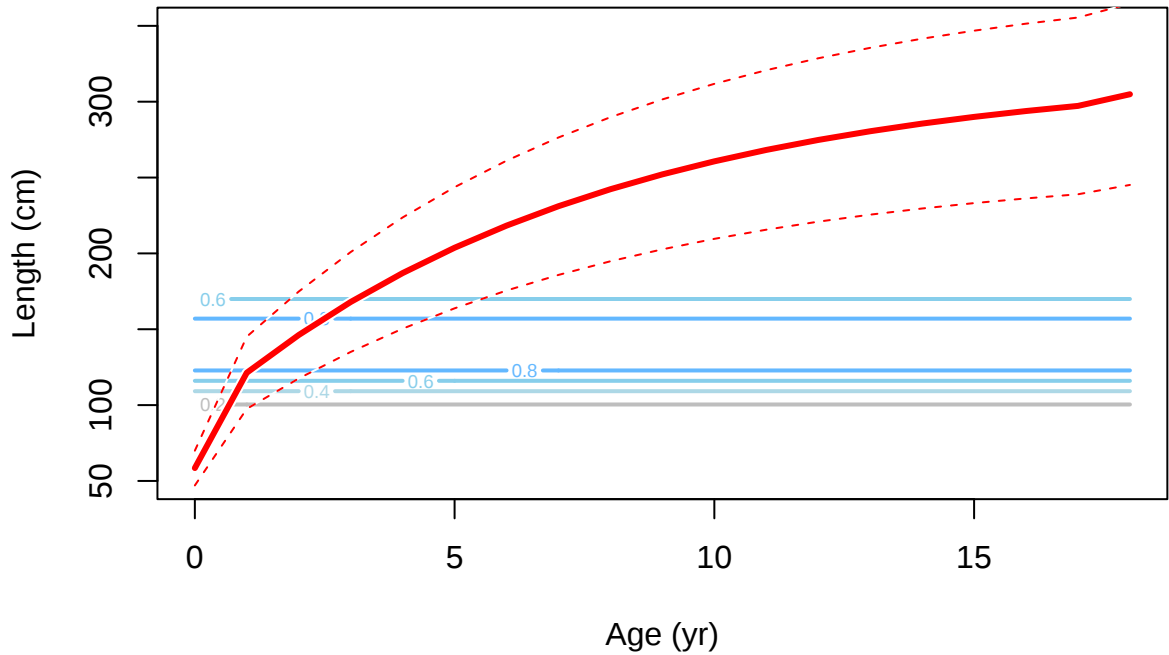


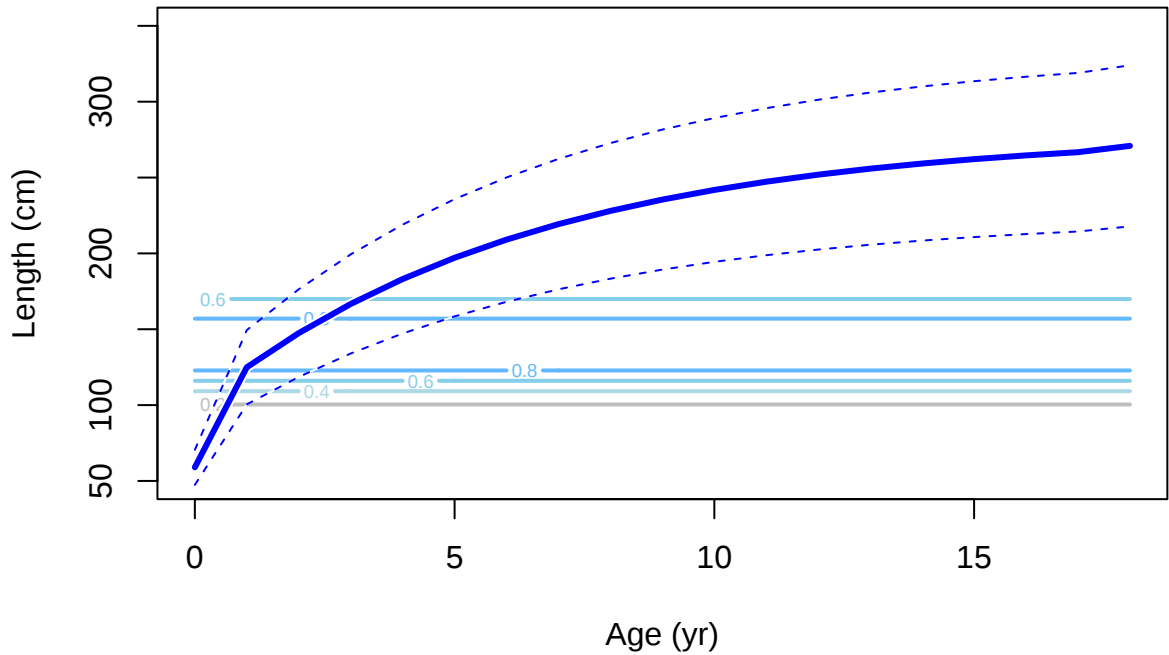


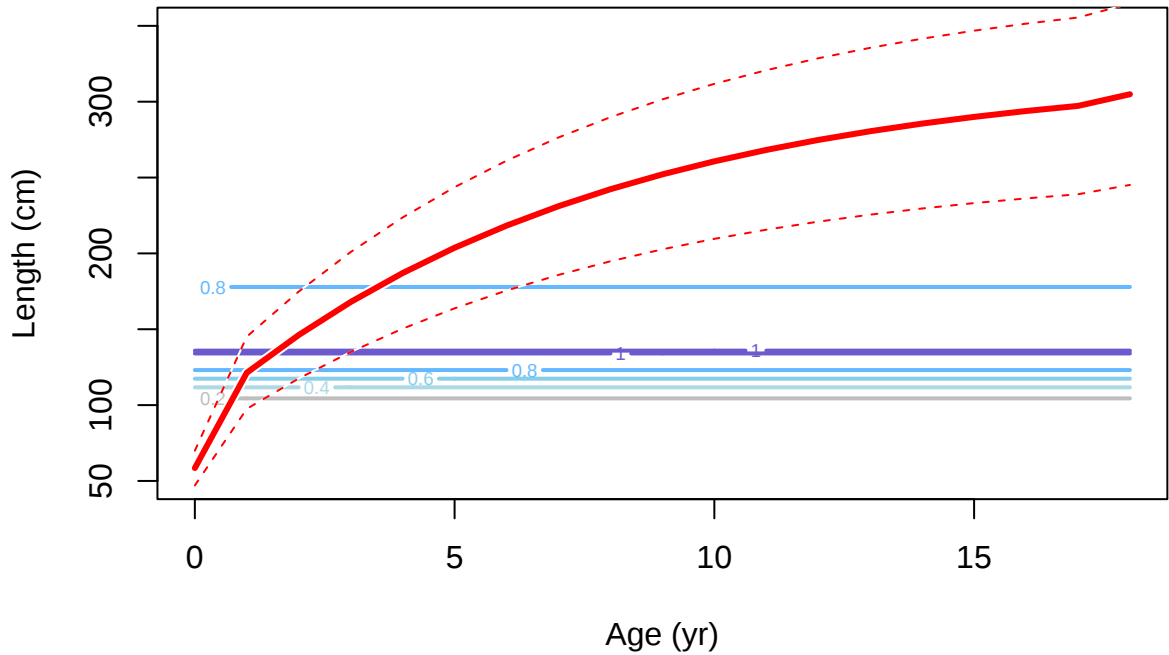


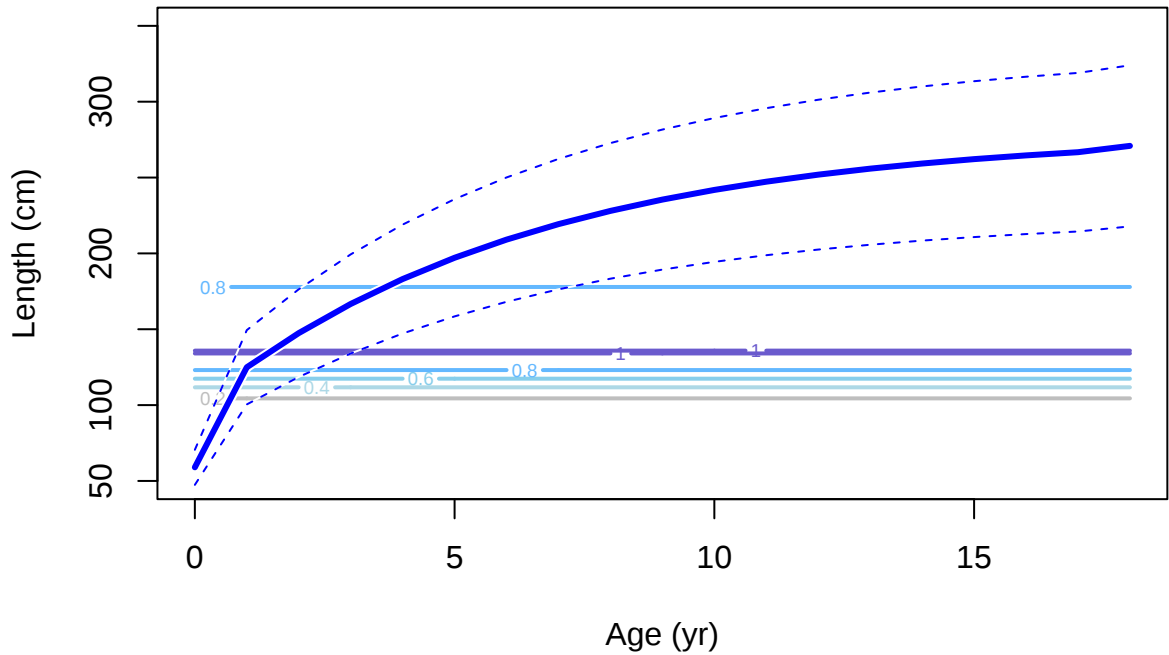


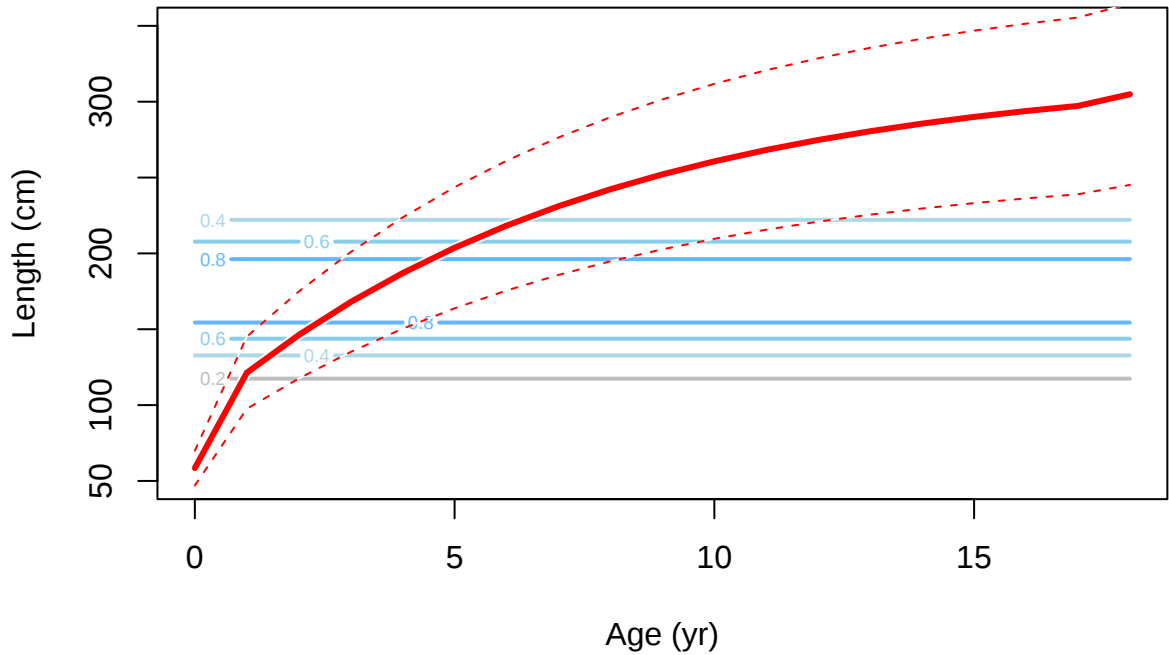


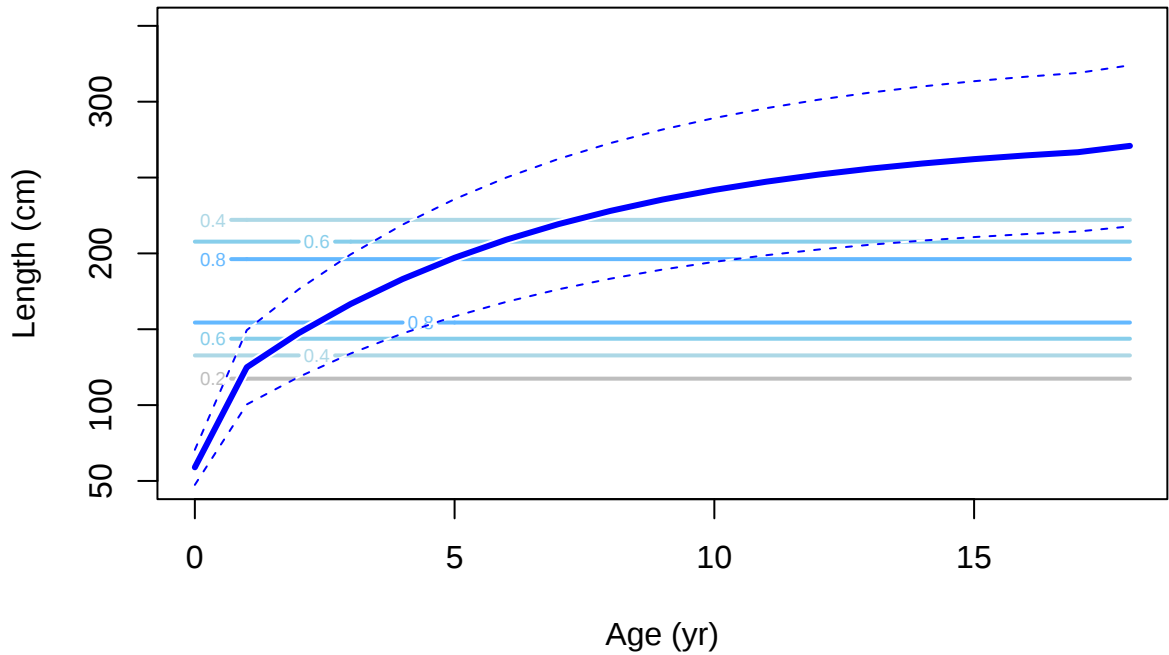


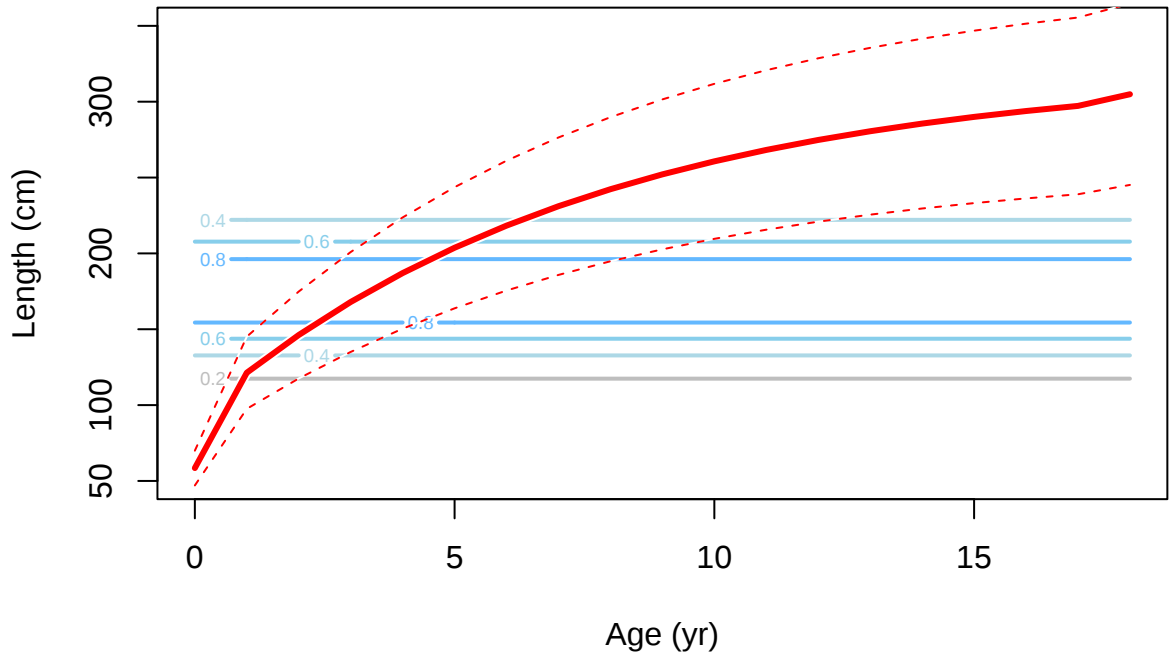


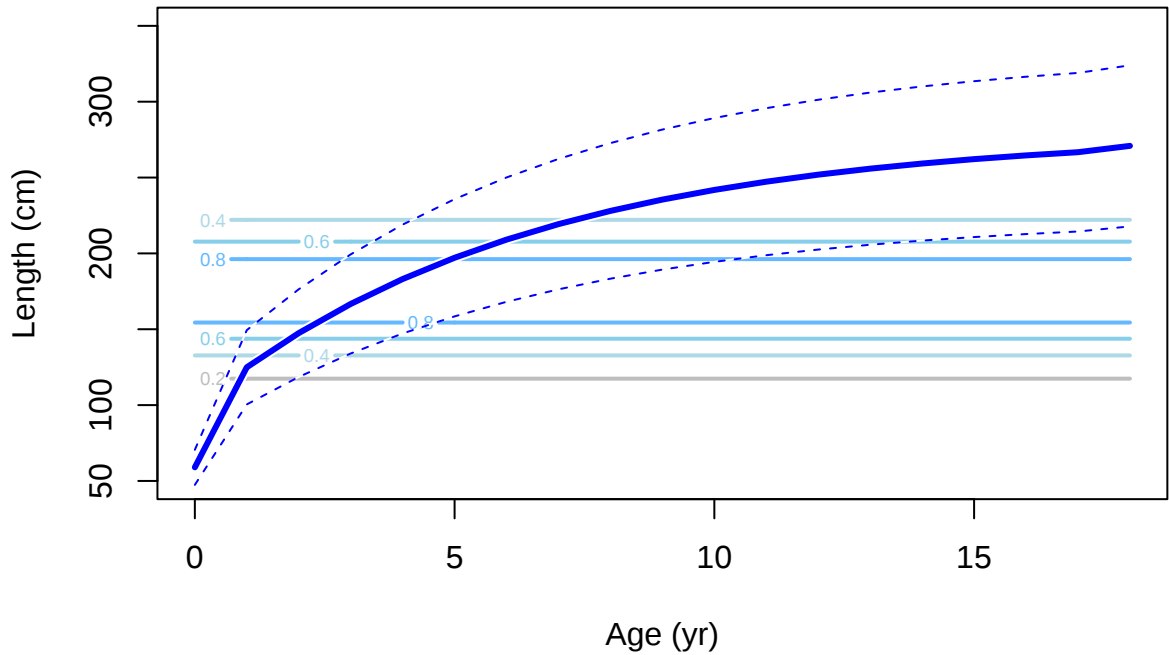


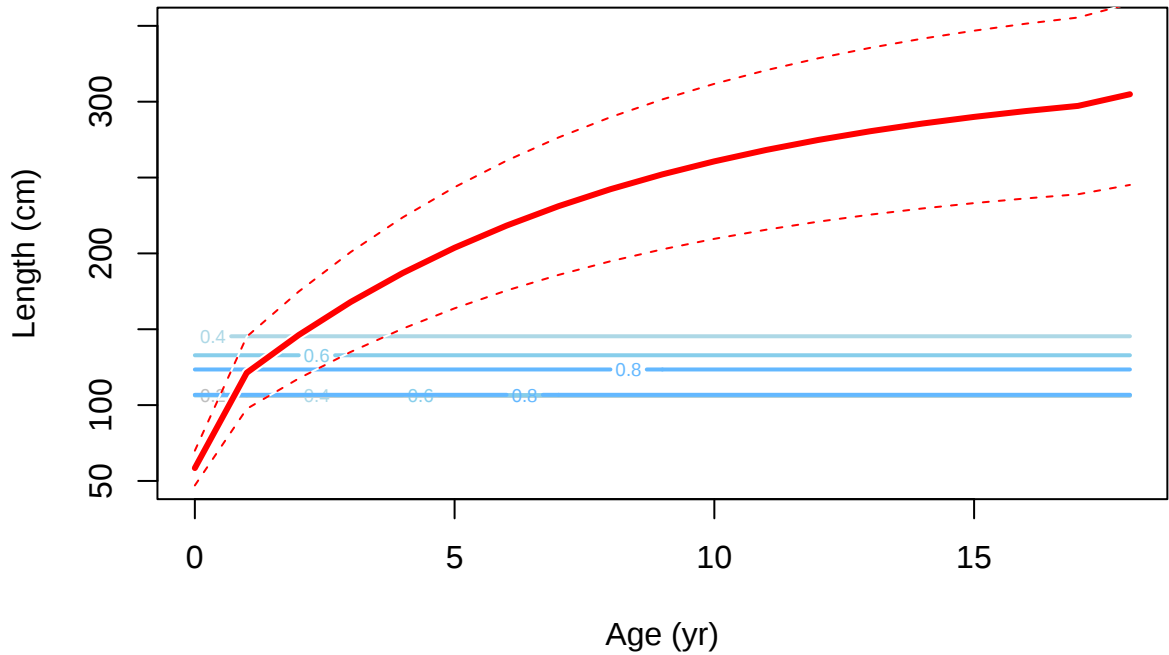


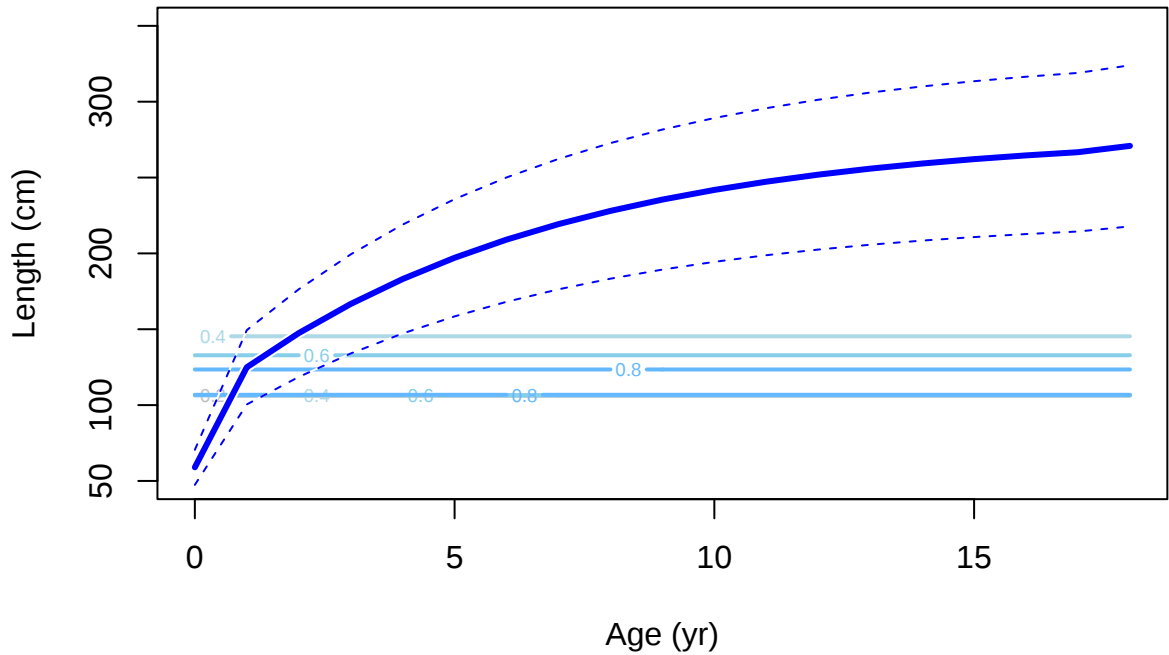


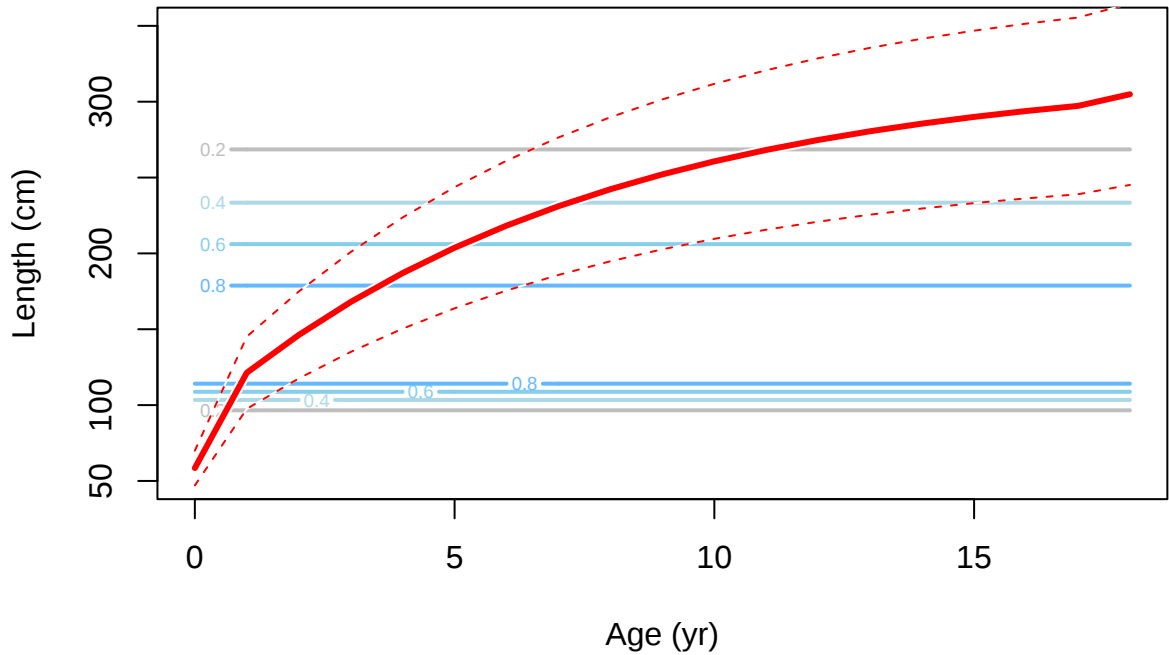


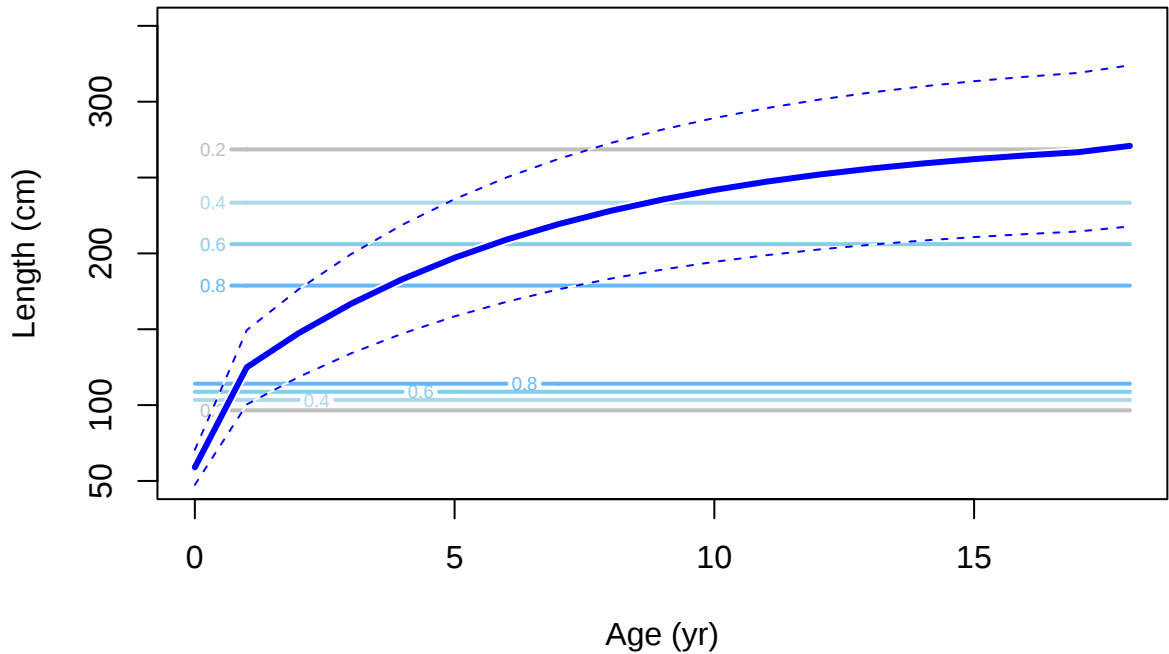


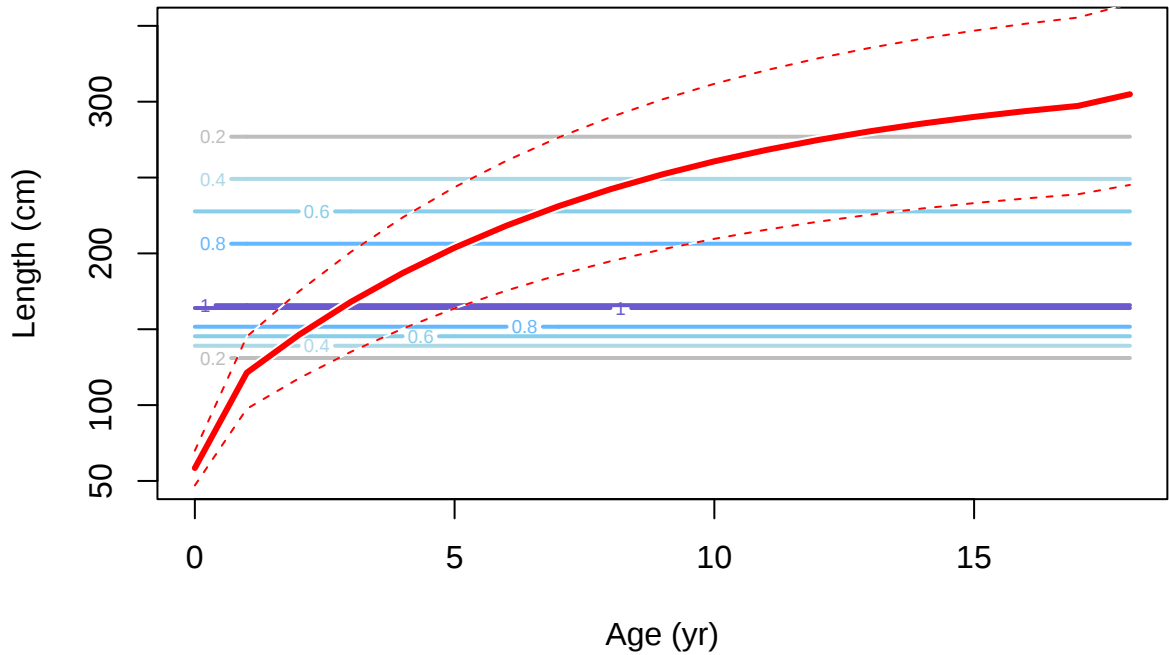


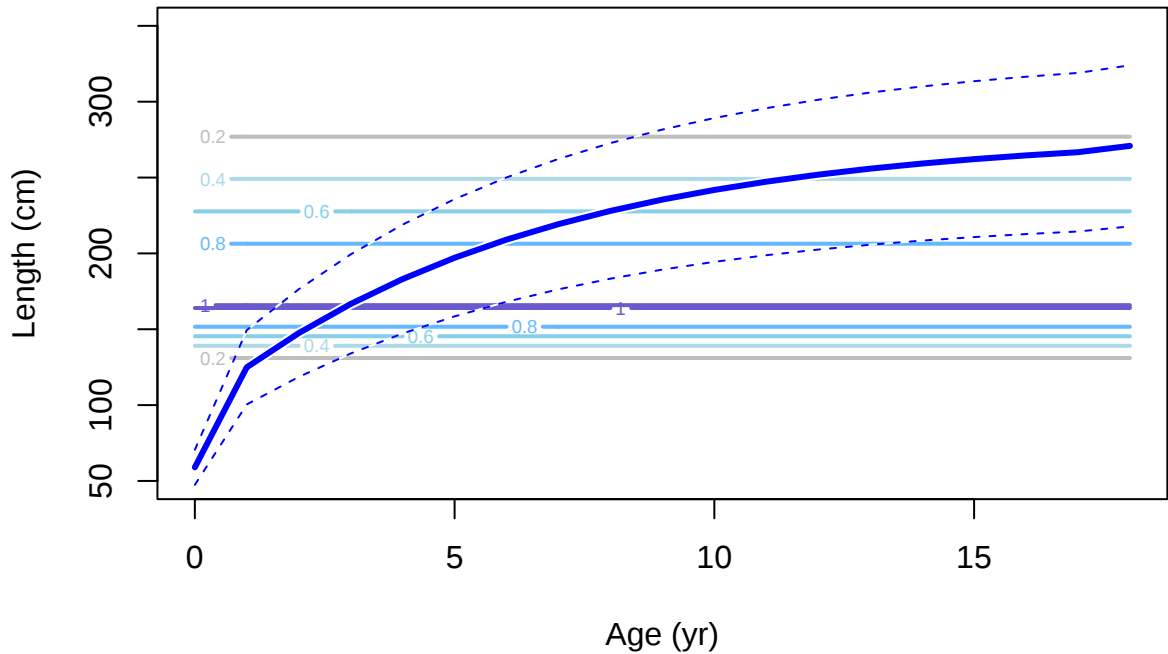


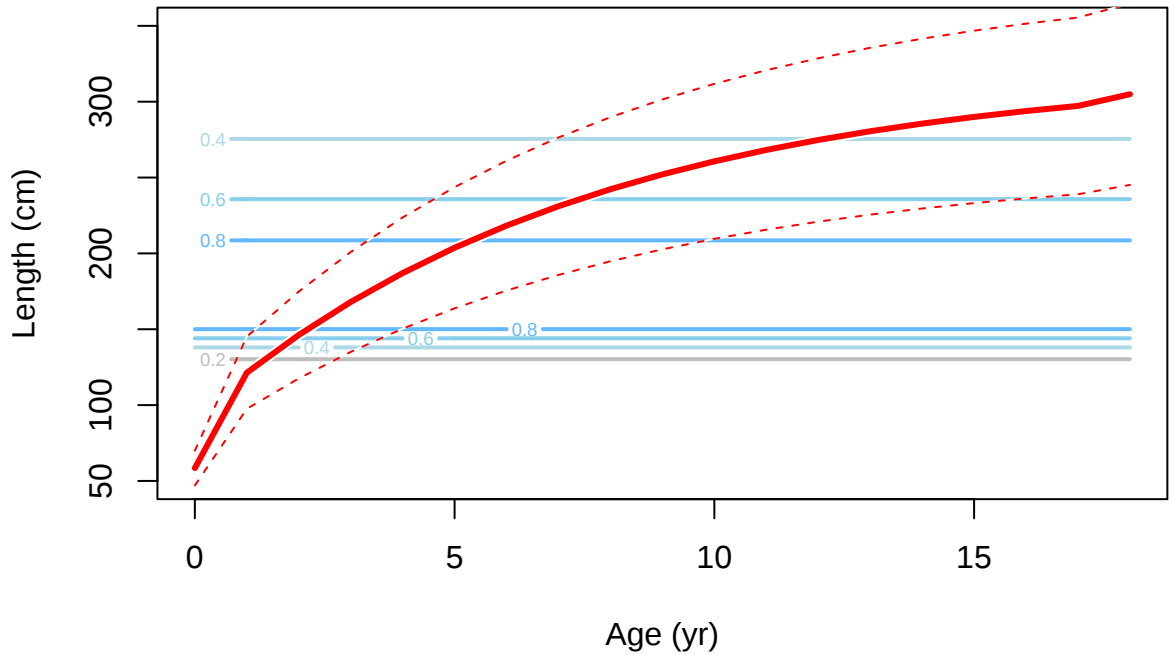


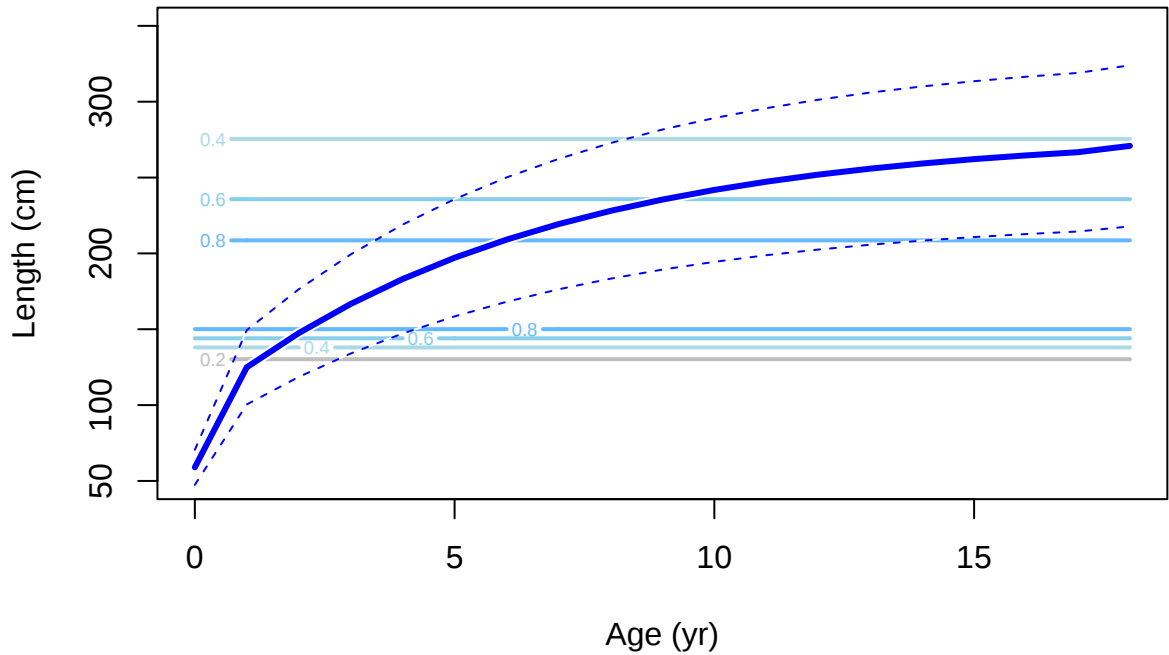


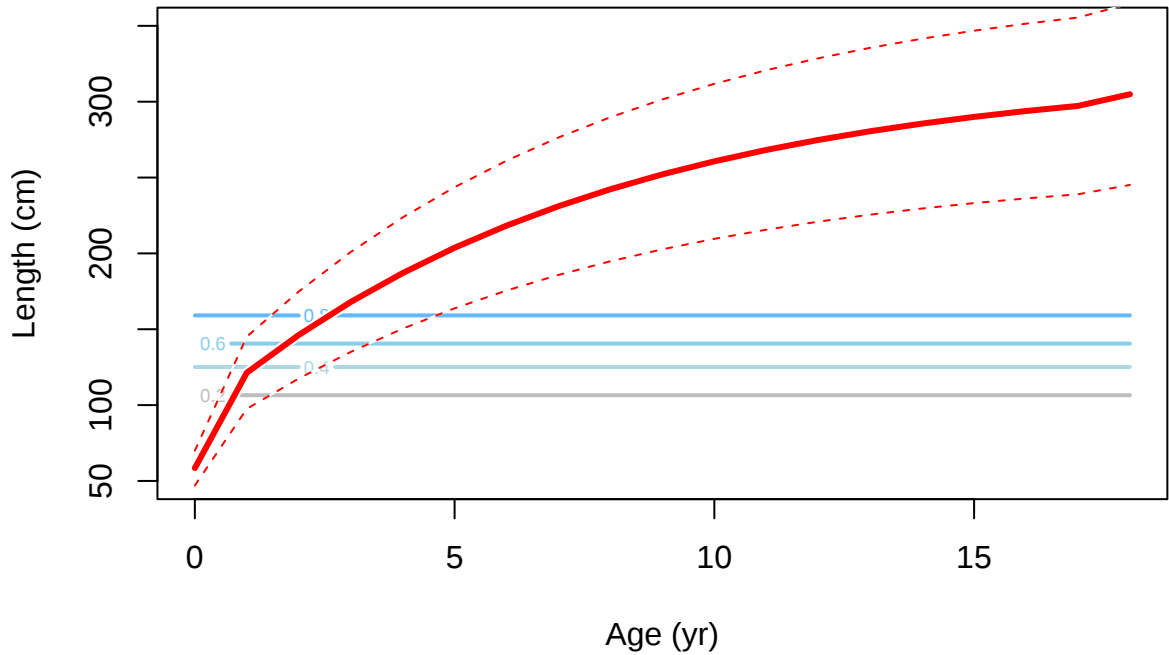


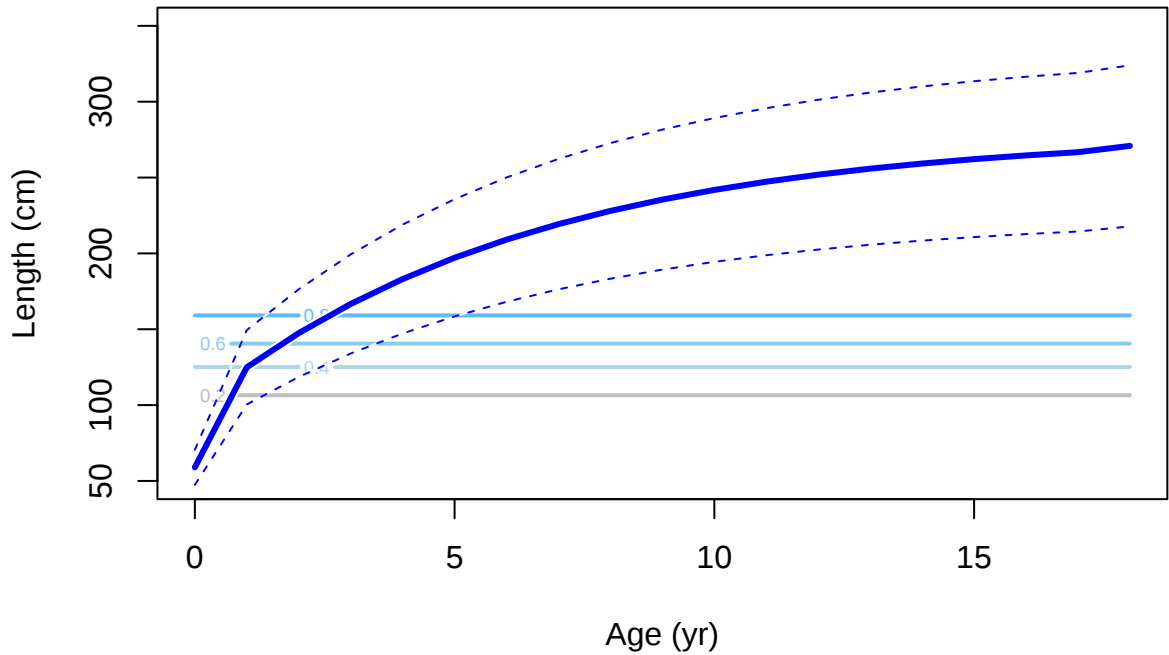


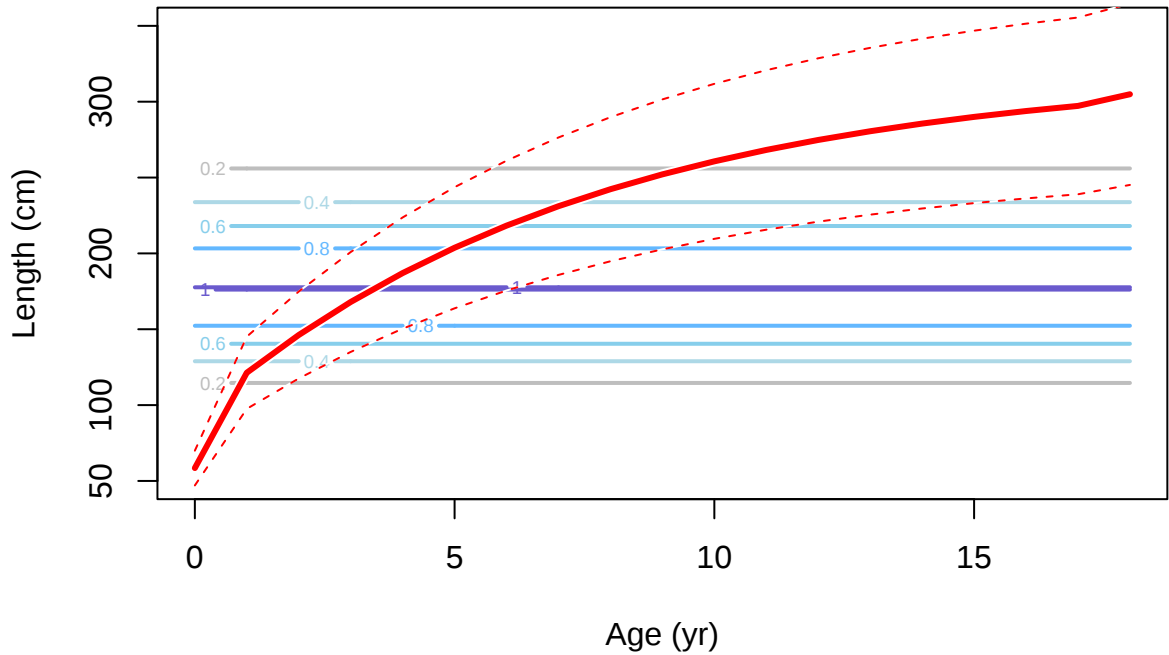


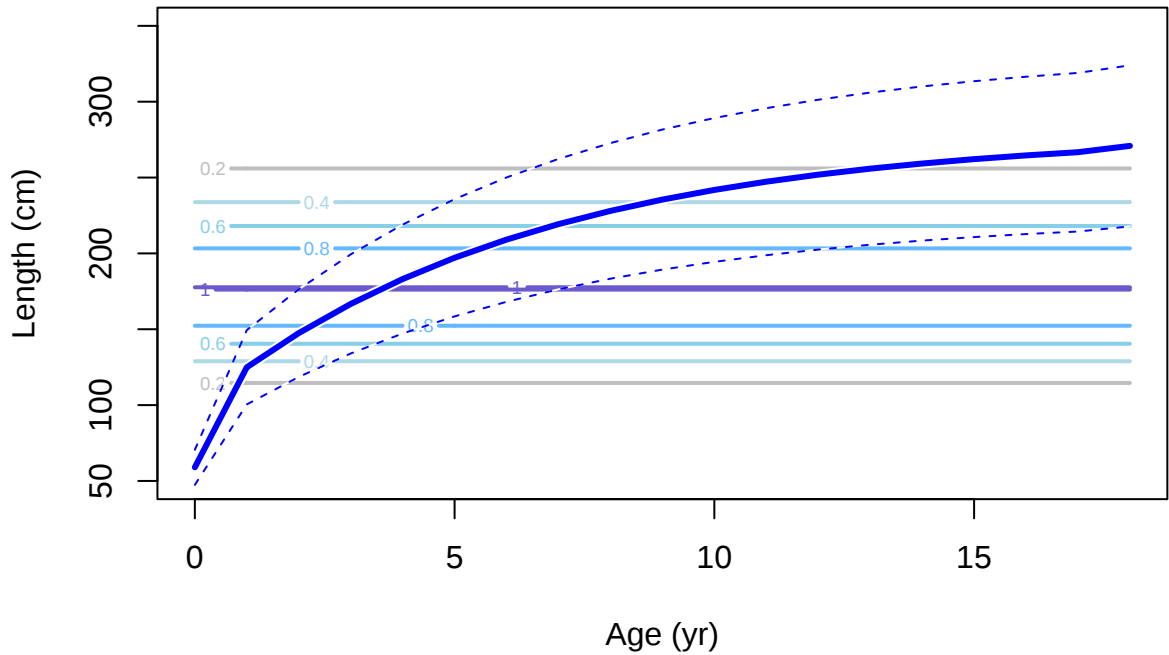


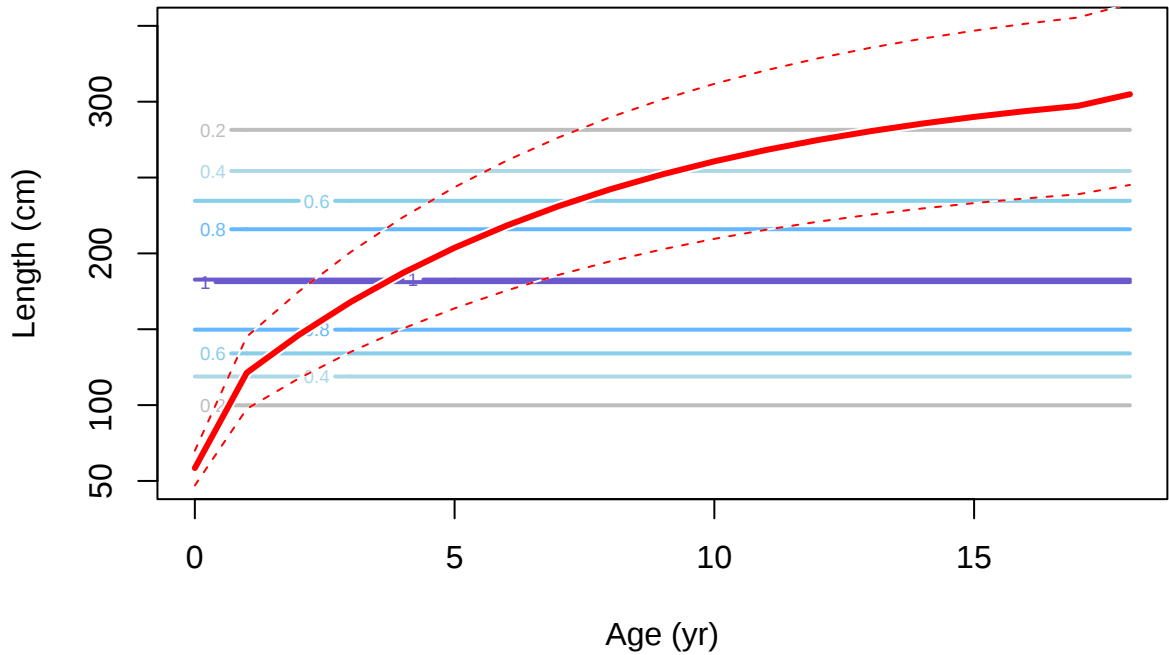


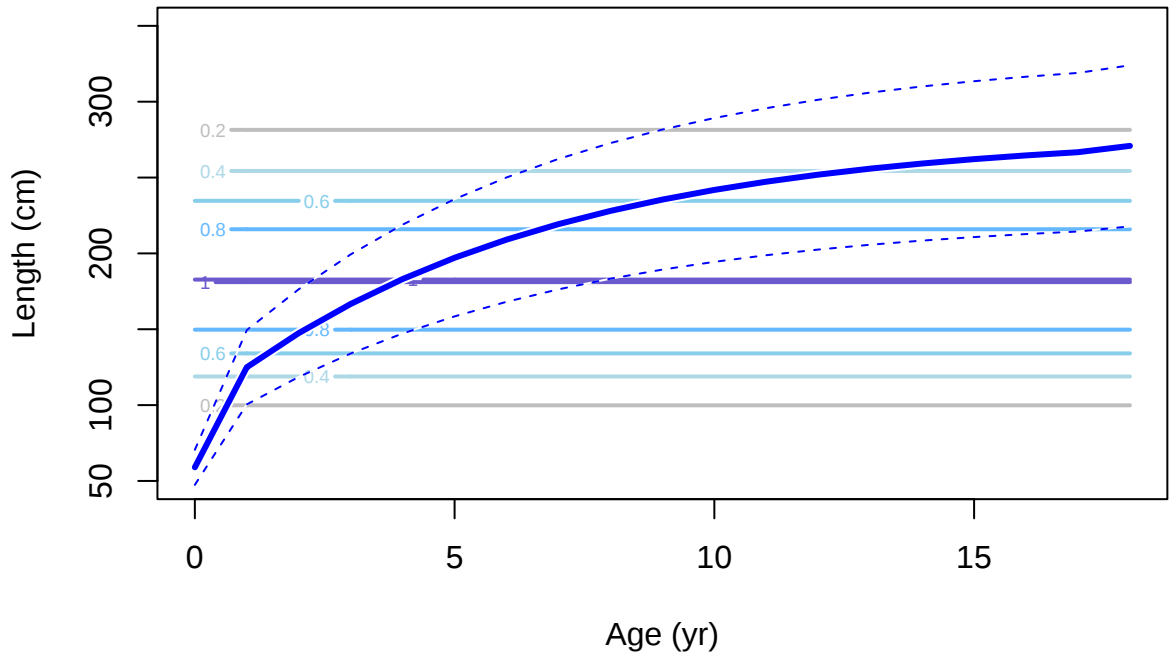


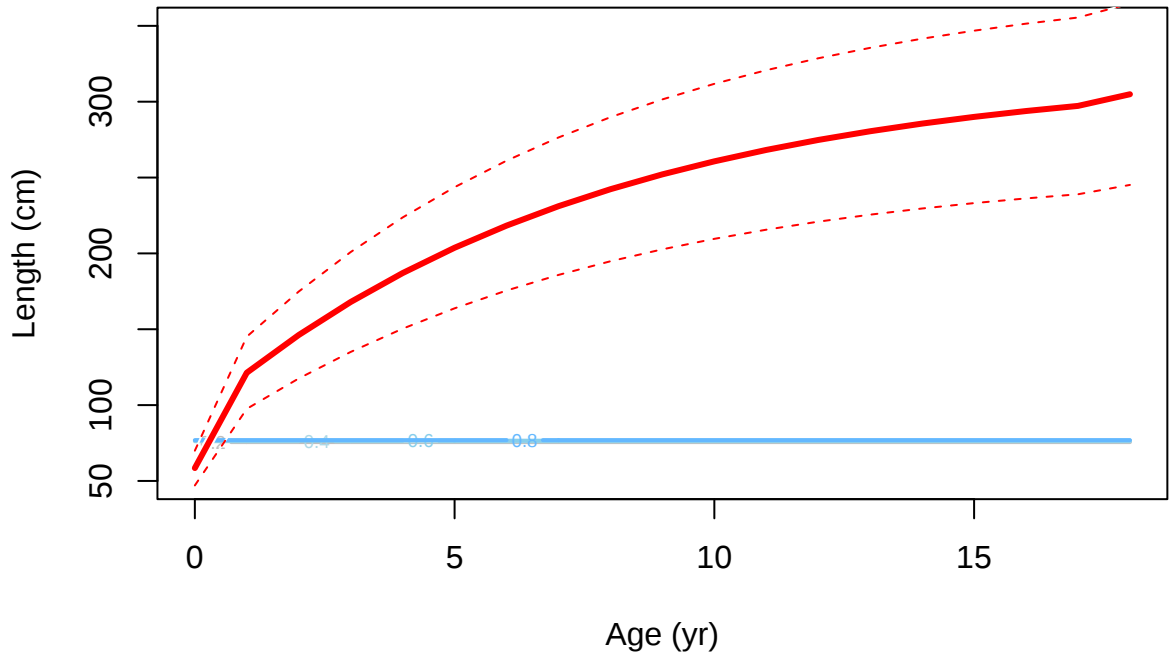


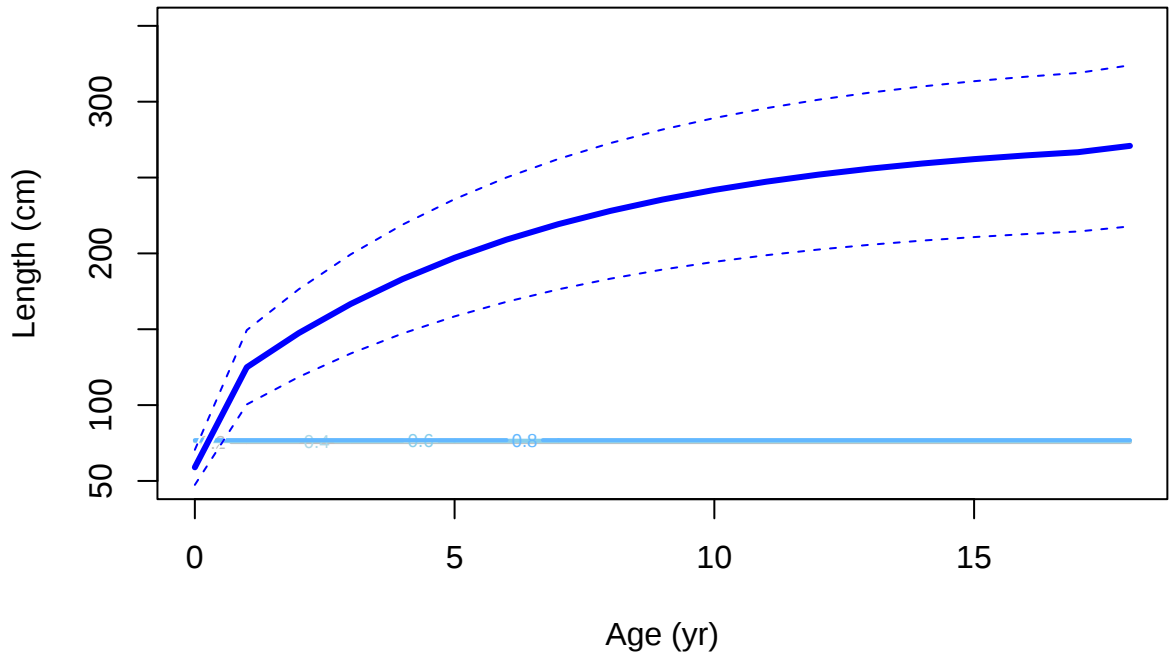


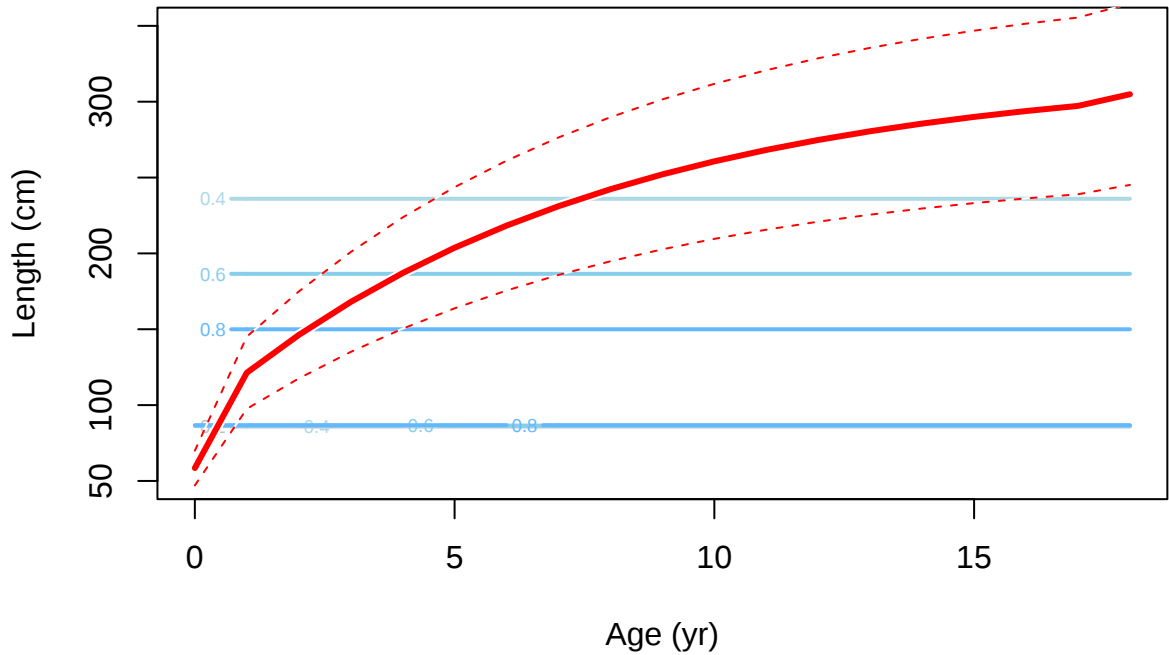


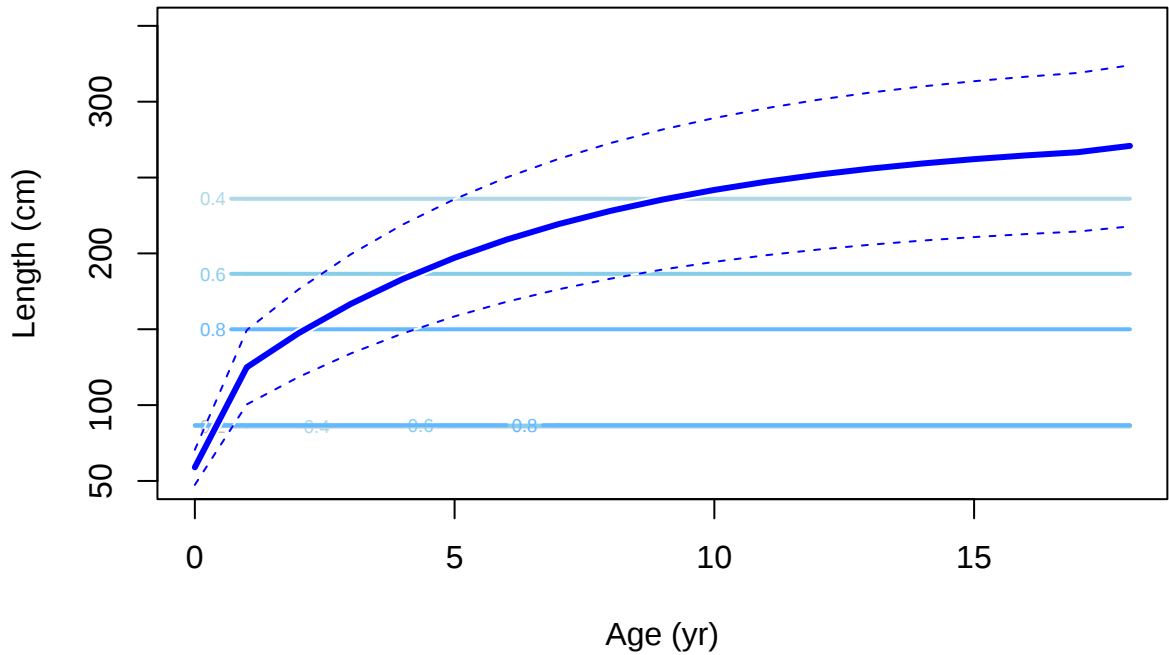


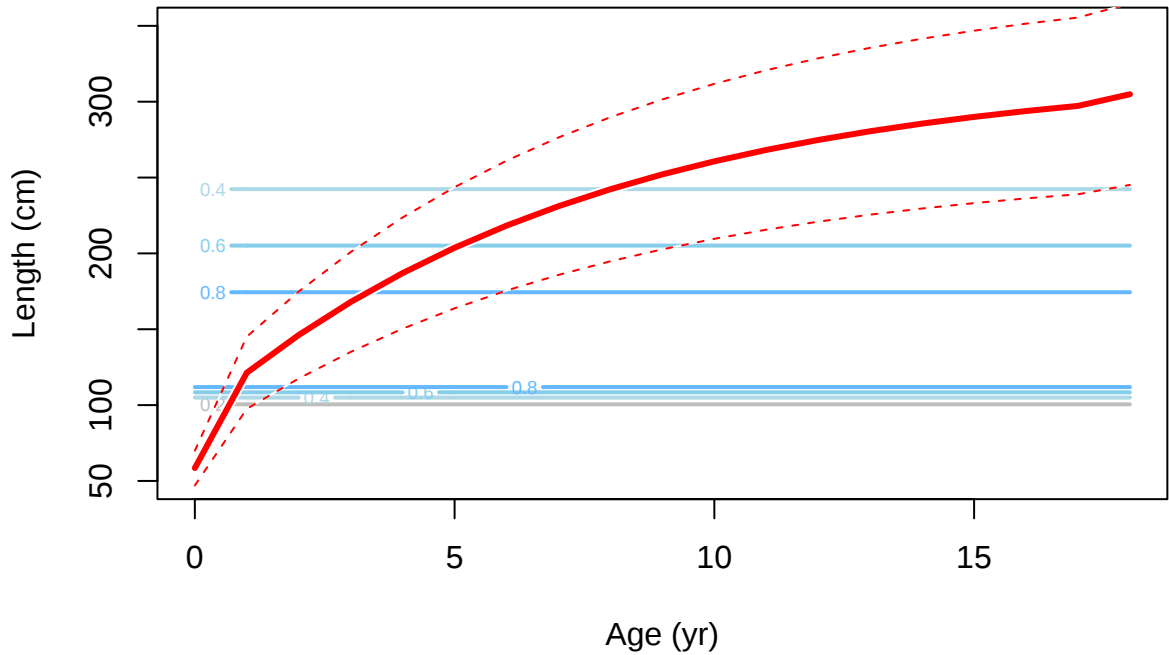


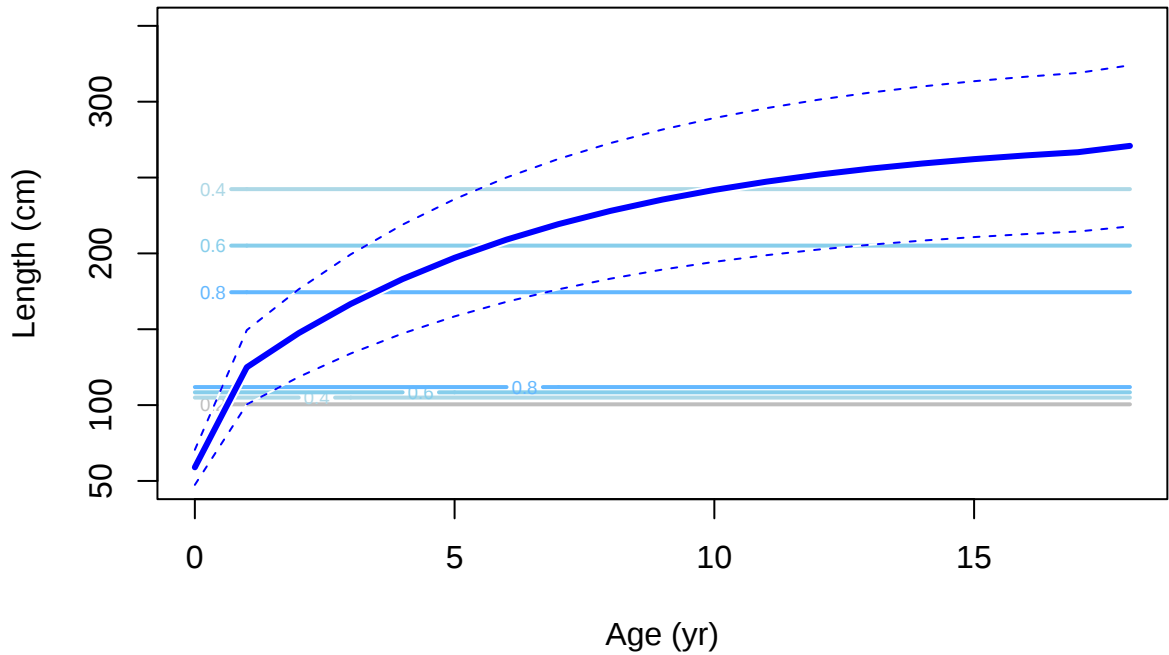


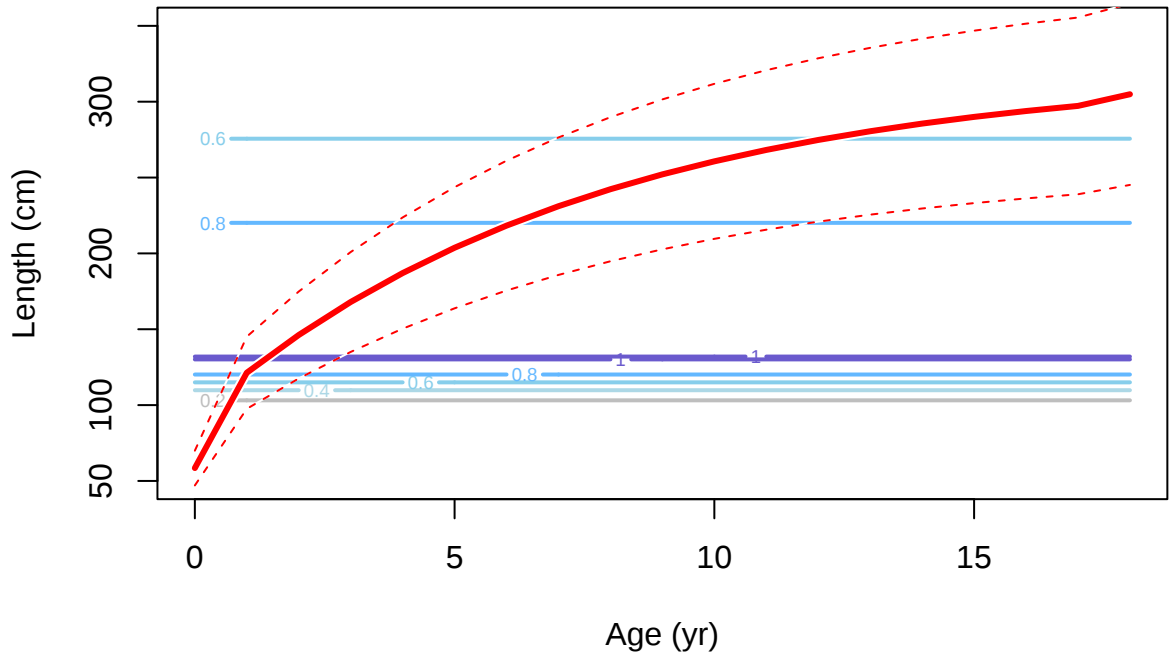


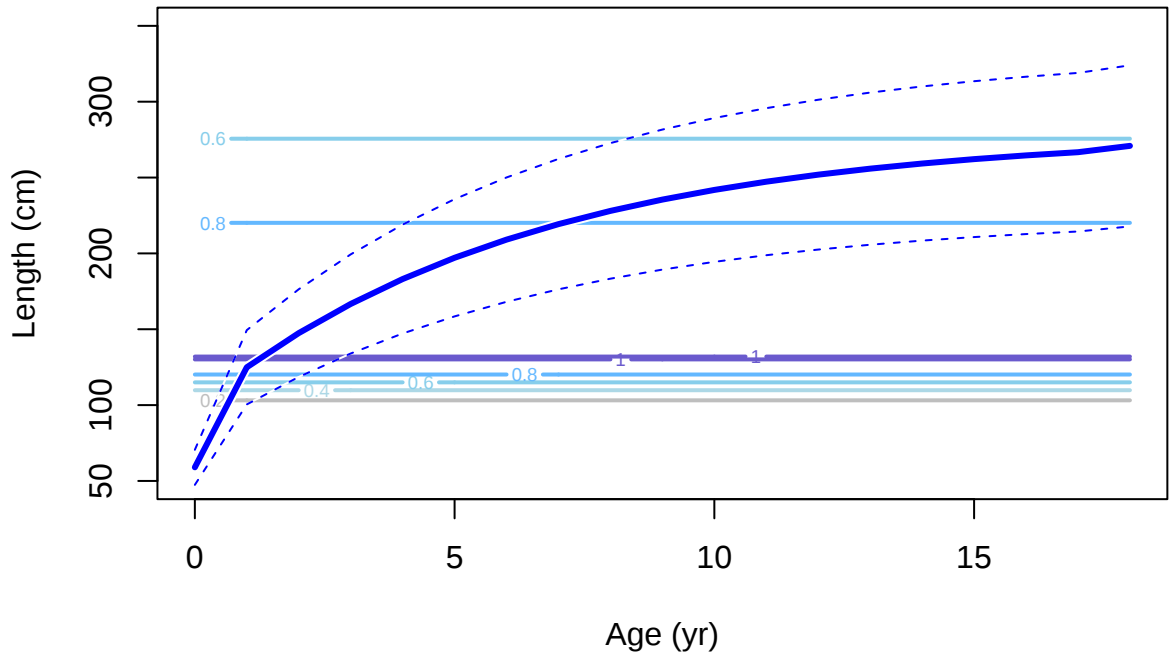


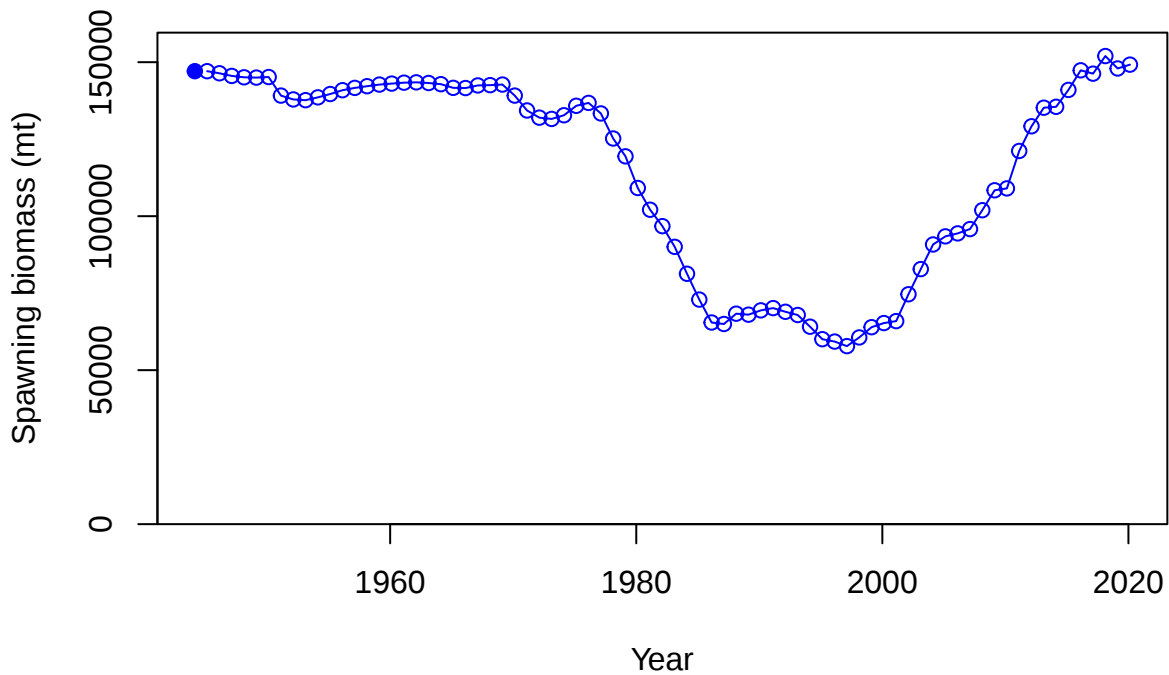




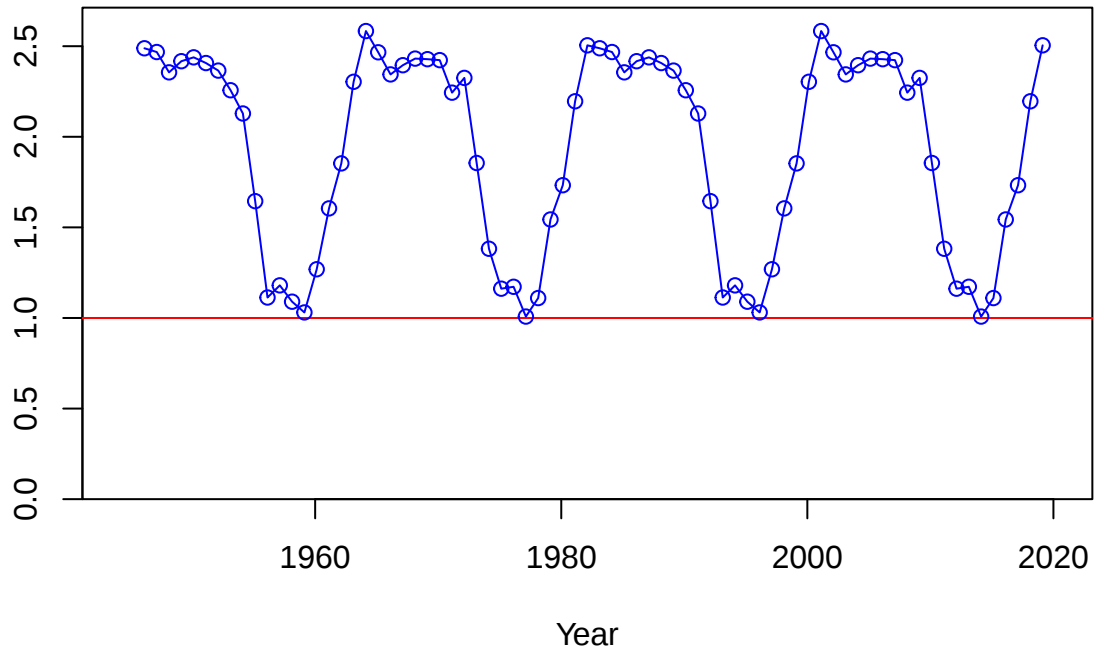


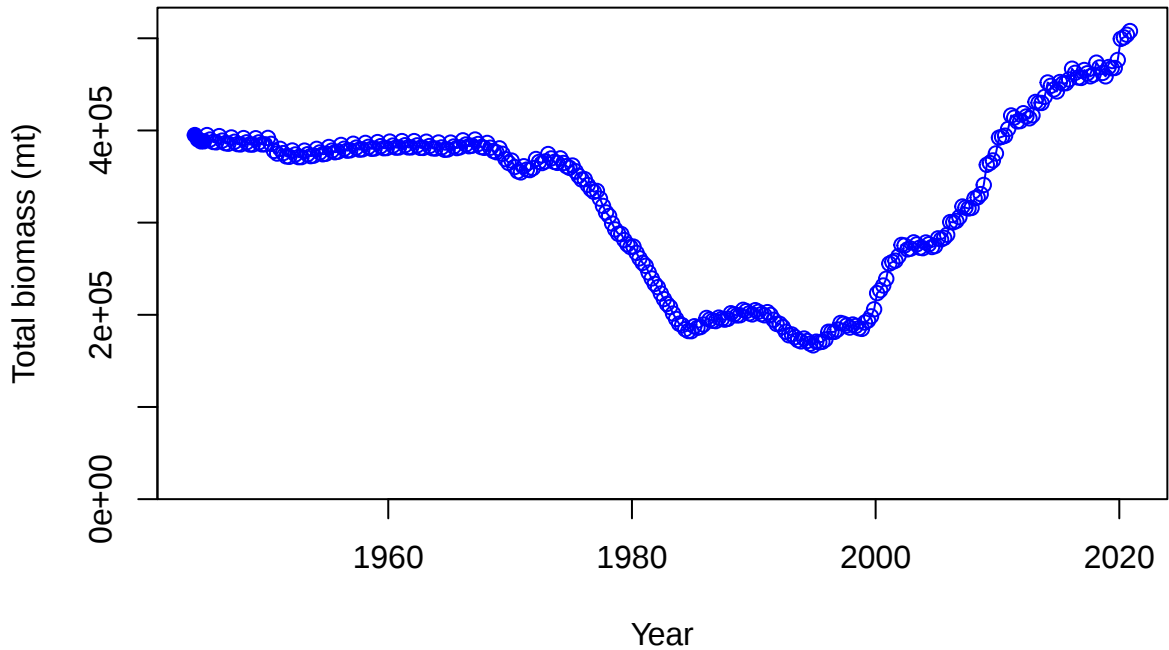




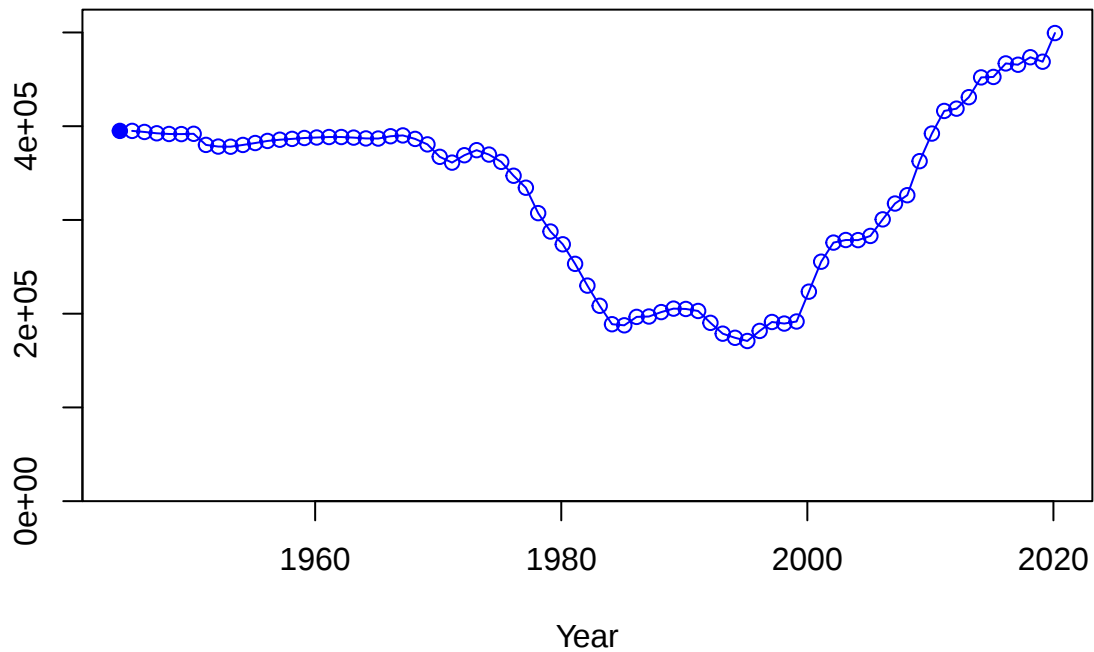


Relative spawning biomass: $B/(40\% \cdot \text{Virgin_Biomass})$

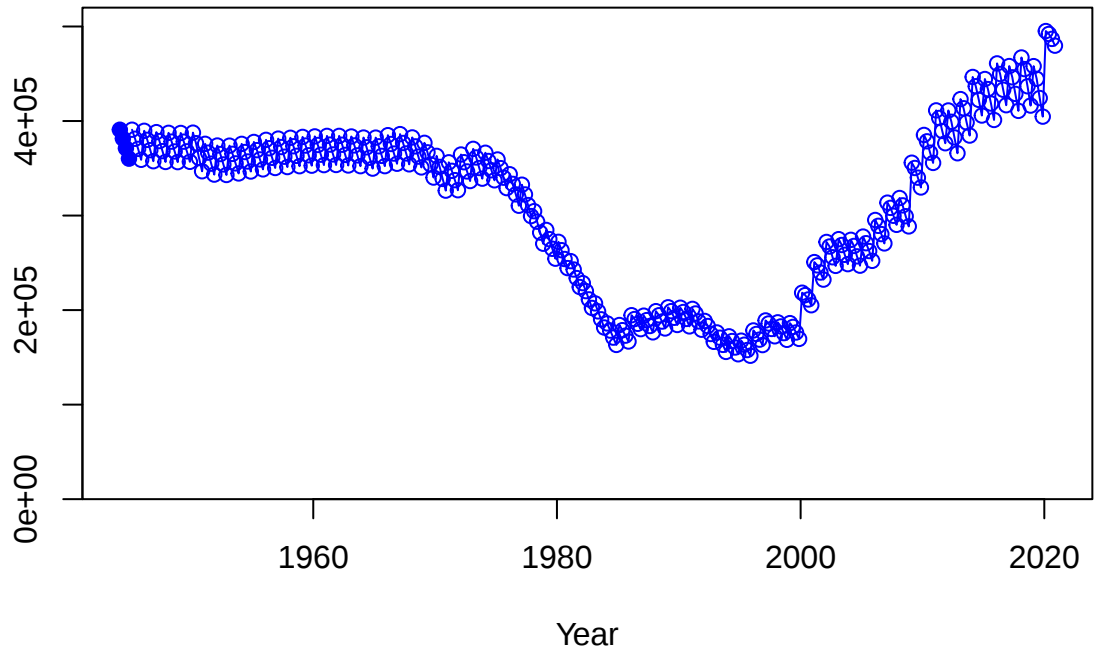




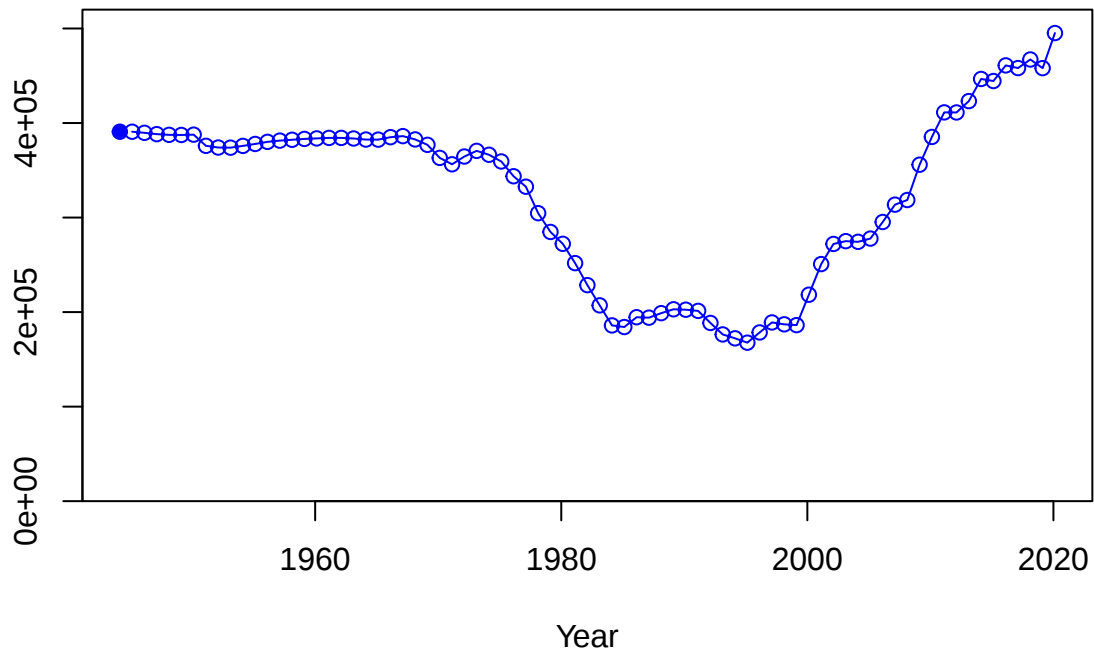
Total biomass (mt) at beginning of season 1



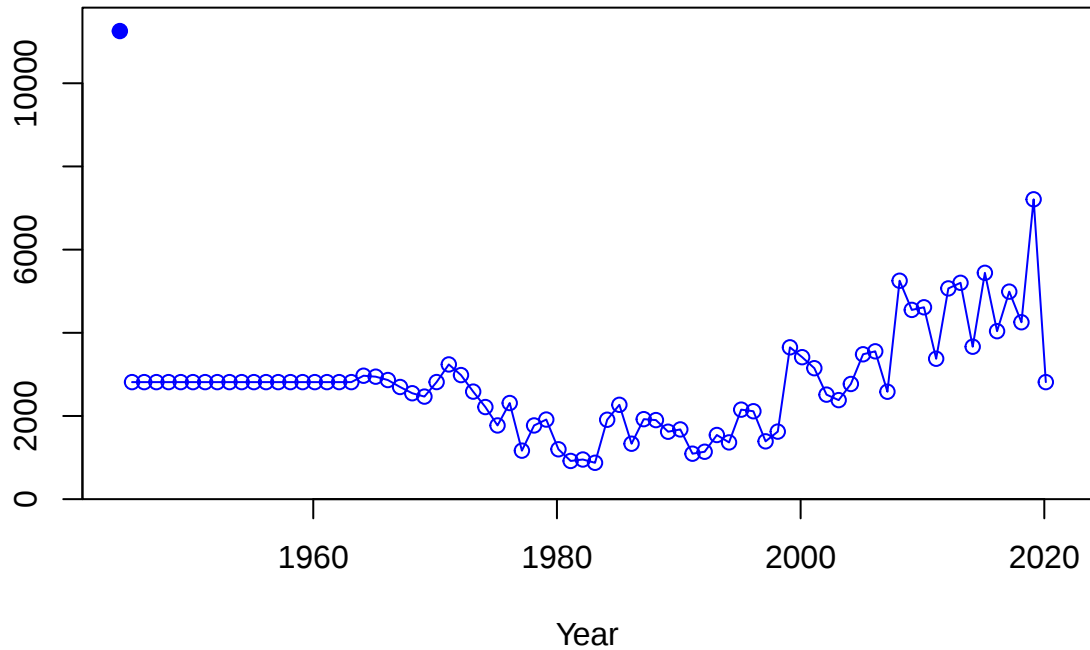
Summary biomass (mt)



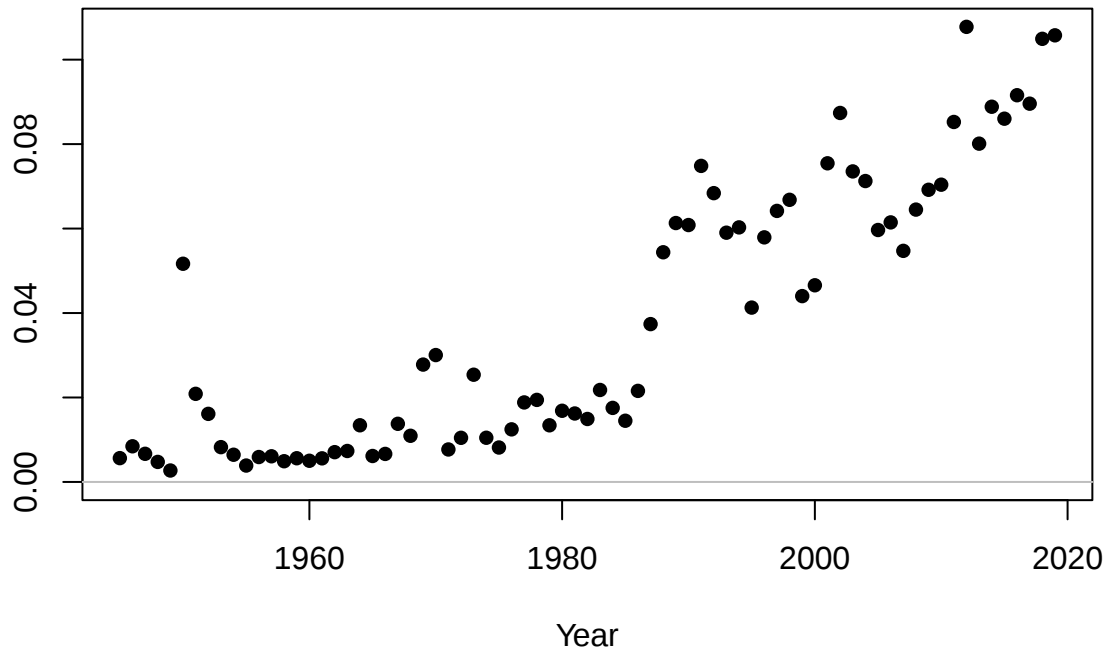
Summary biomass (mt) at beginning of season

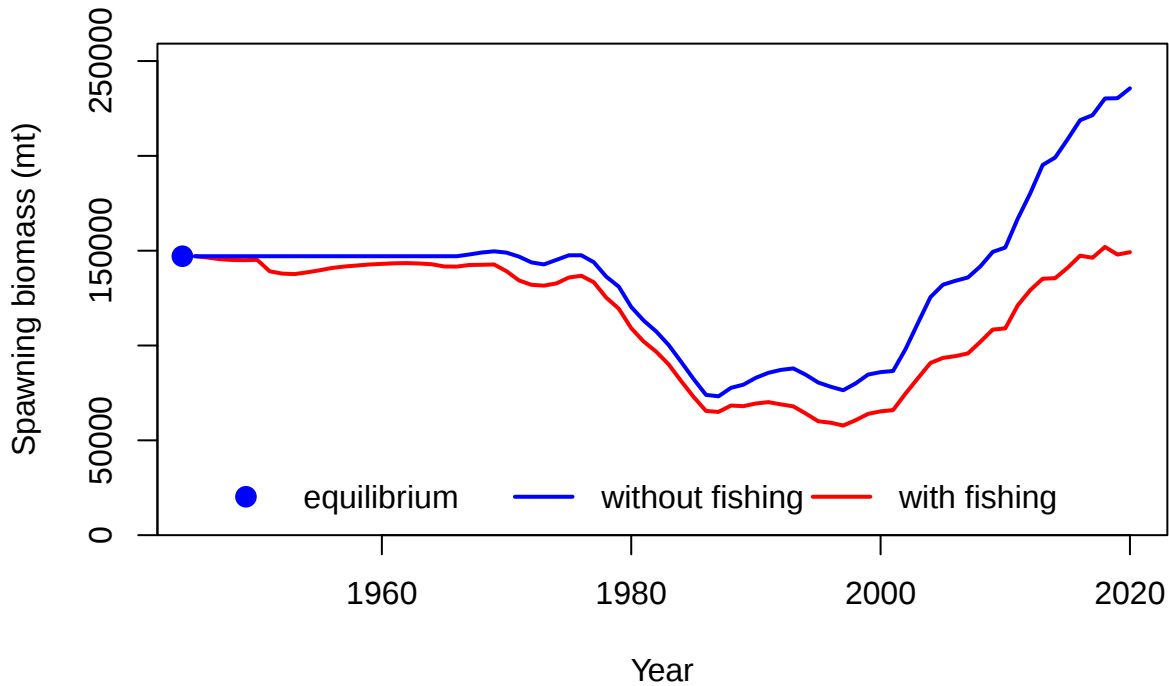


Age-0 recruits (1,000s)

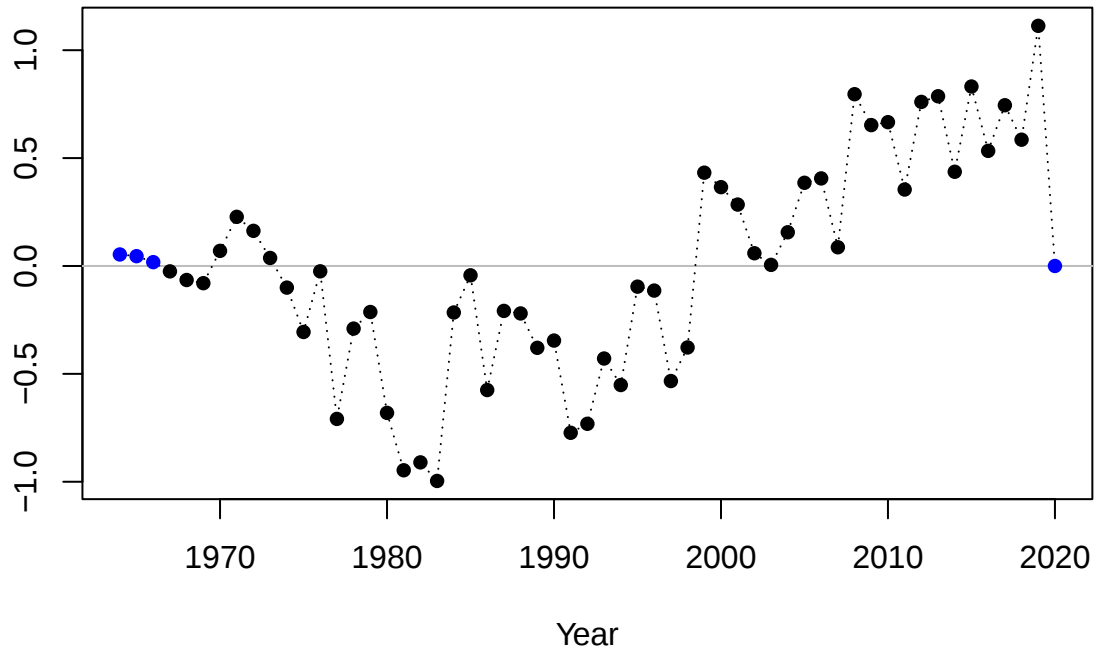


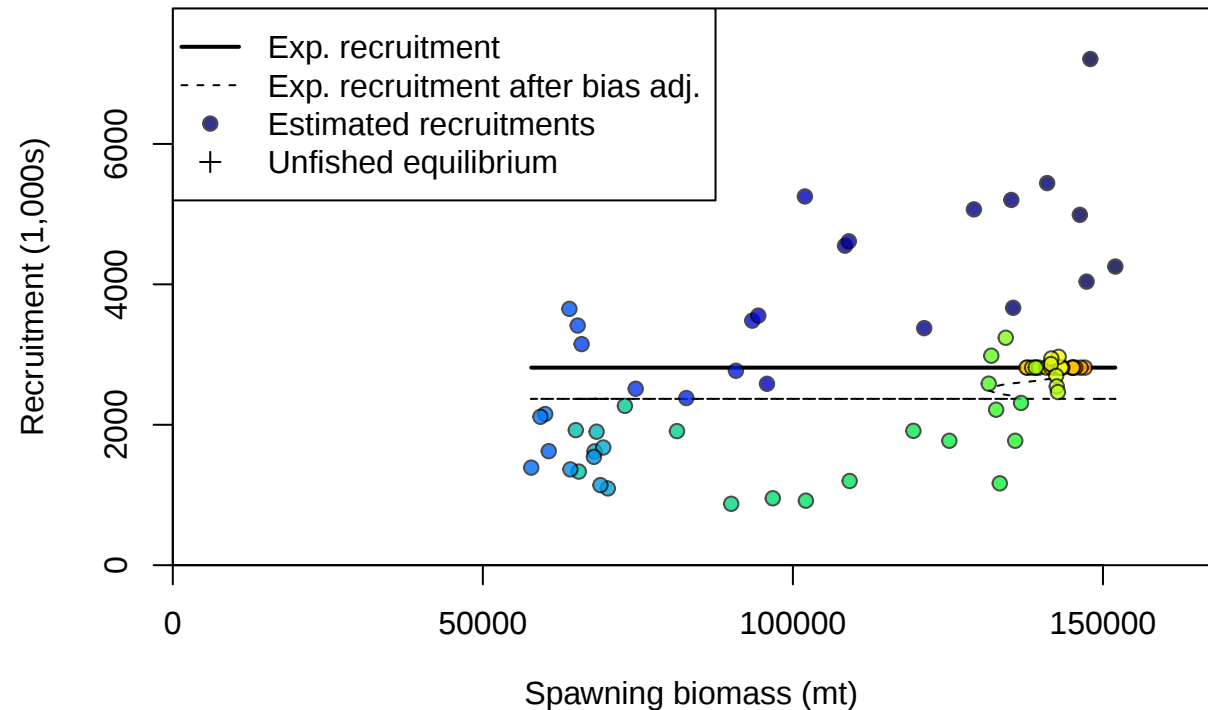
Summary Fishing Mortality

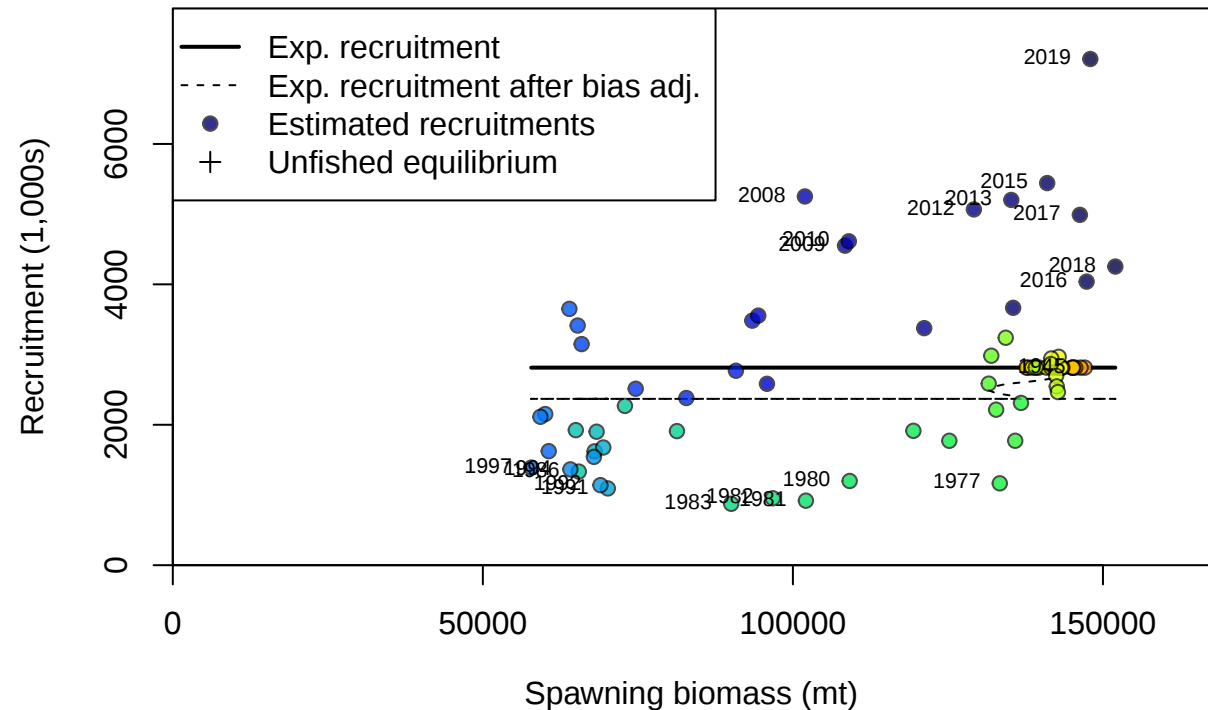




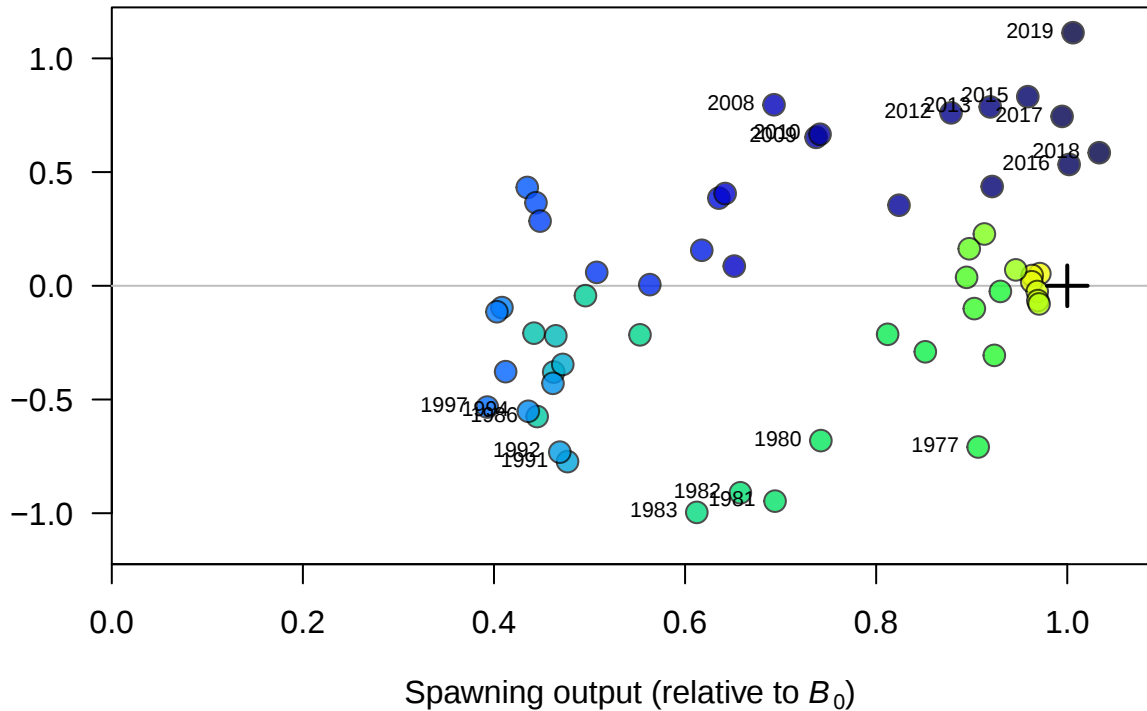
Log recruitment deviation

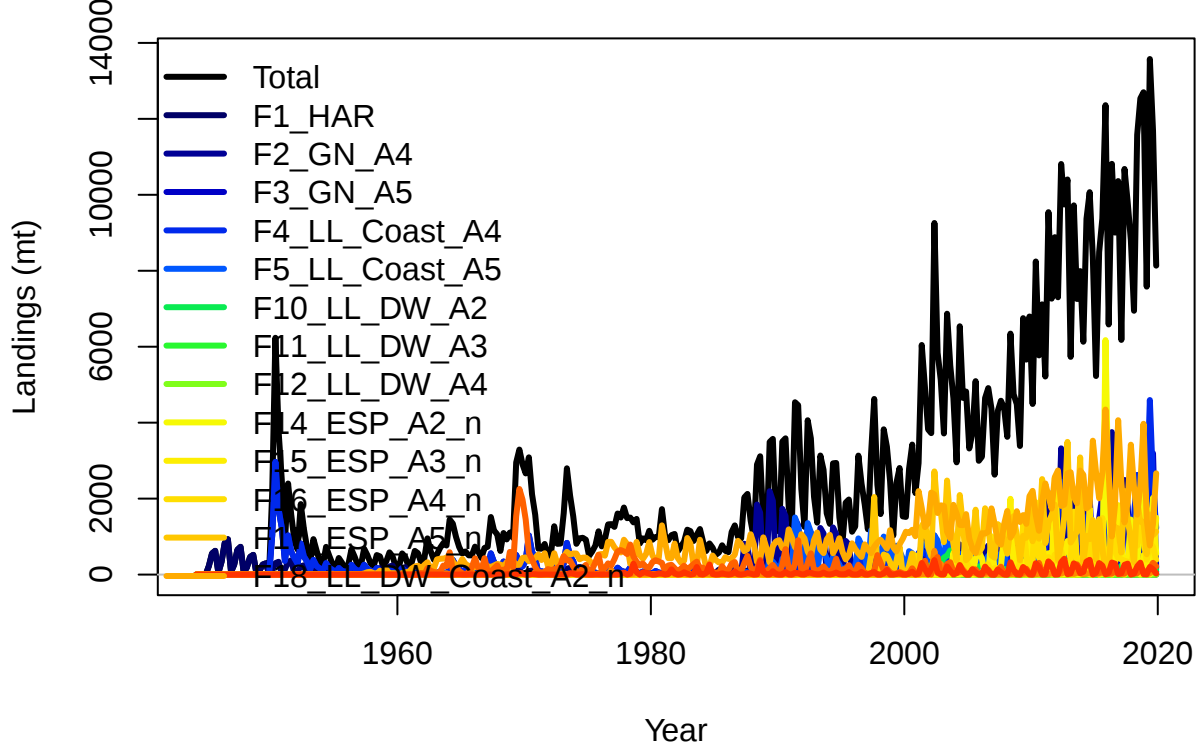


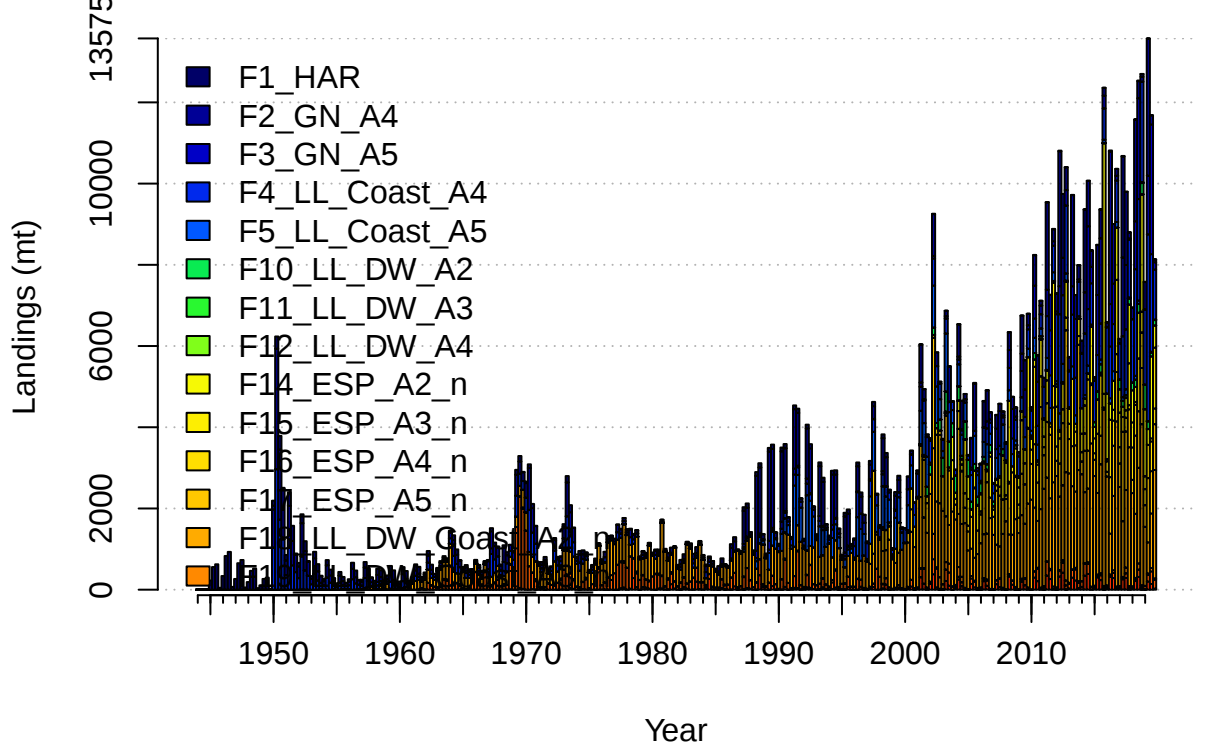




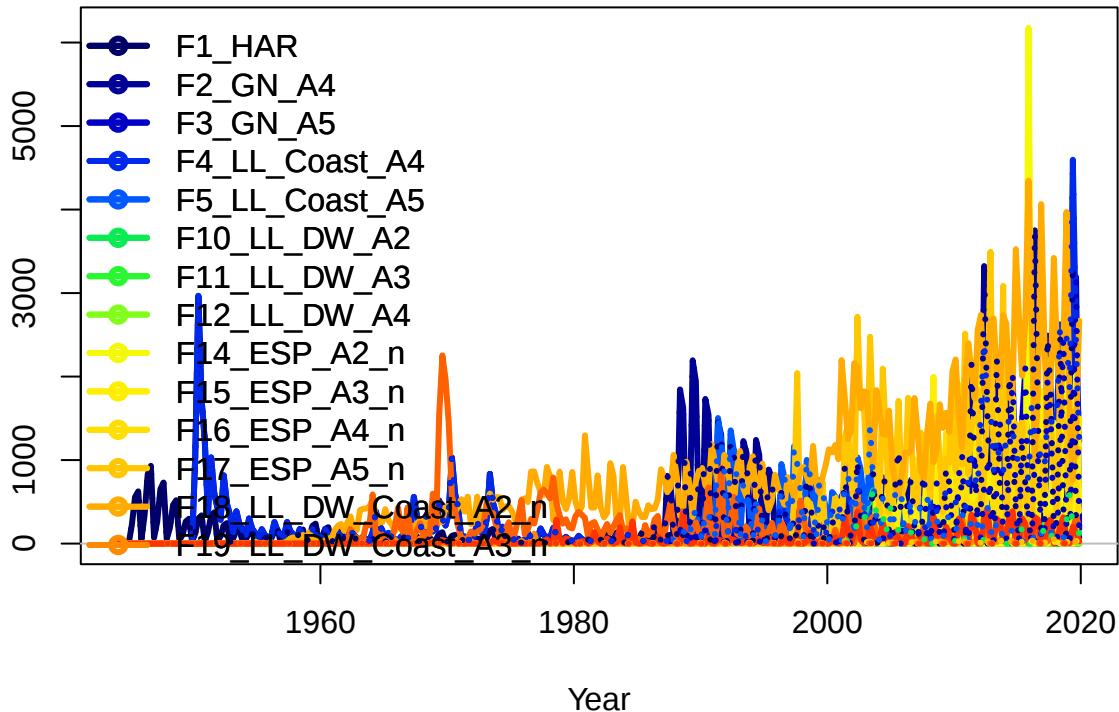
Log recruitment deviation



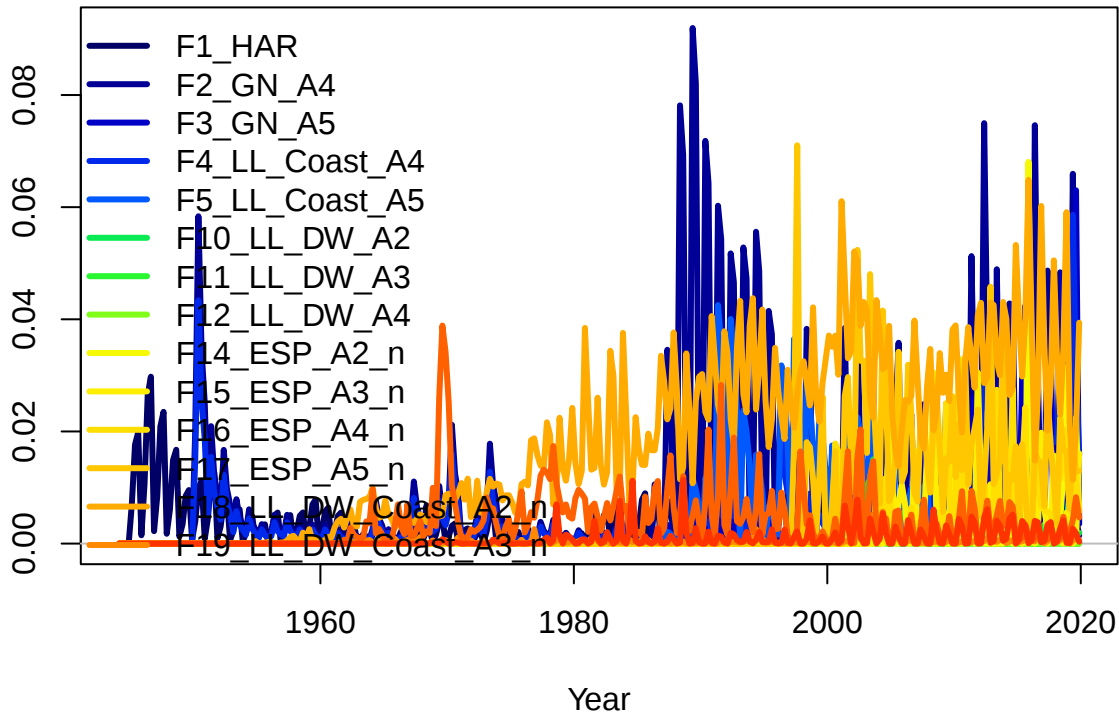




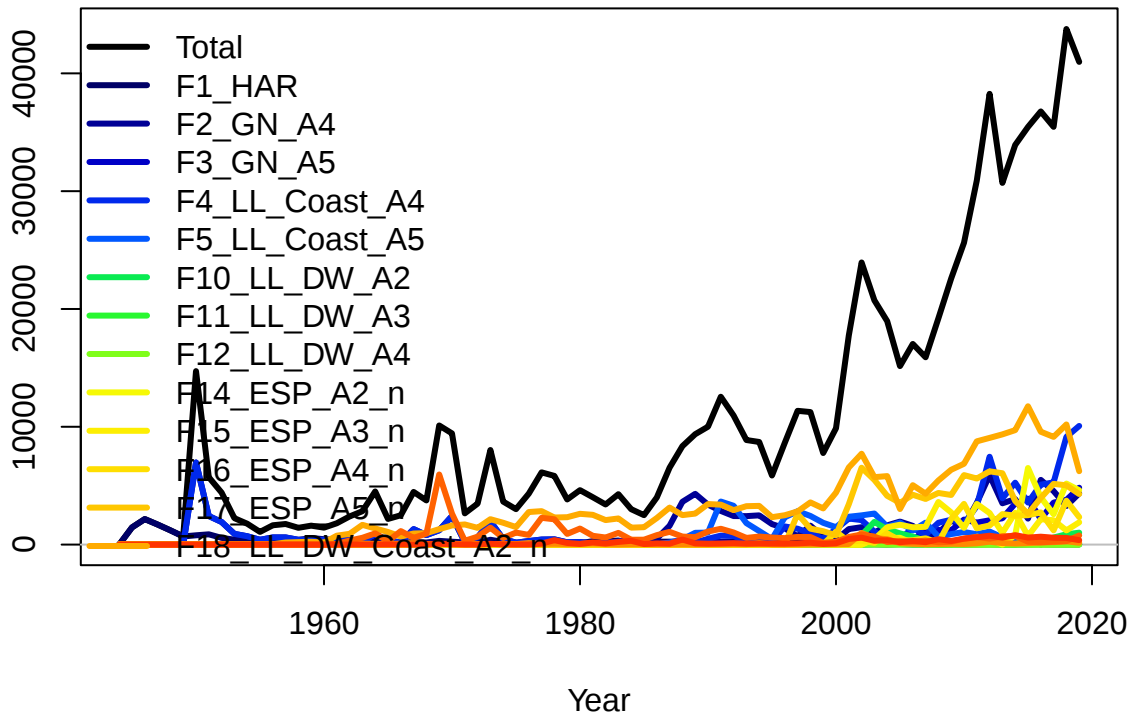
Observed and expected Landings (mt)



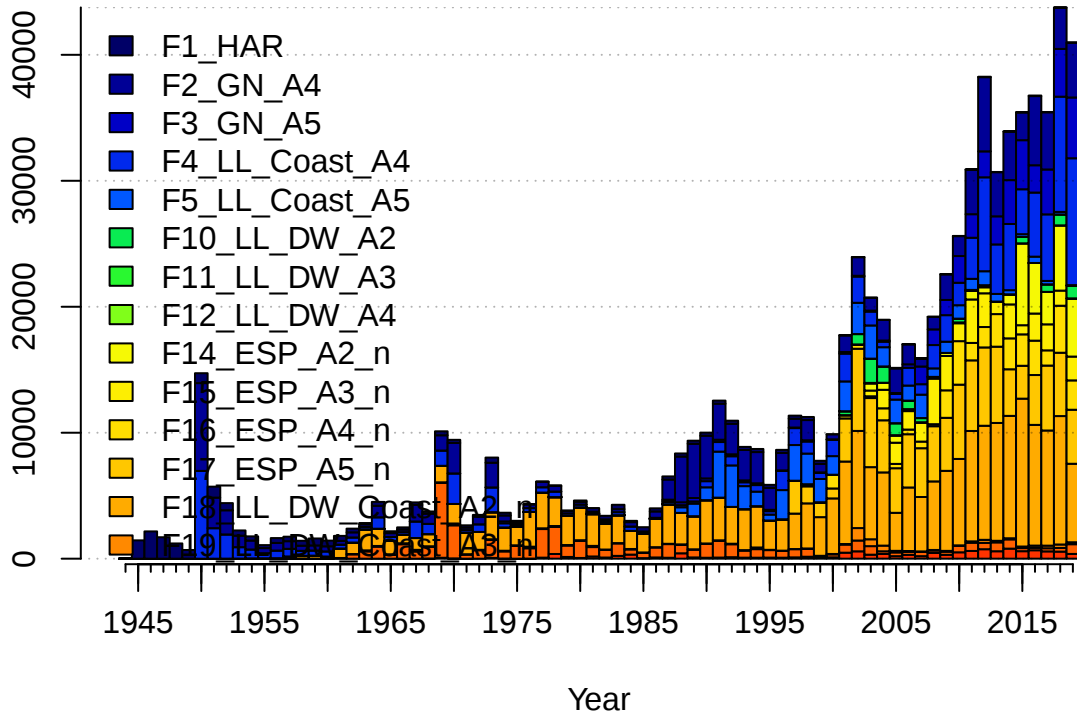
Continuous F



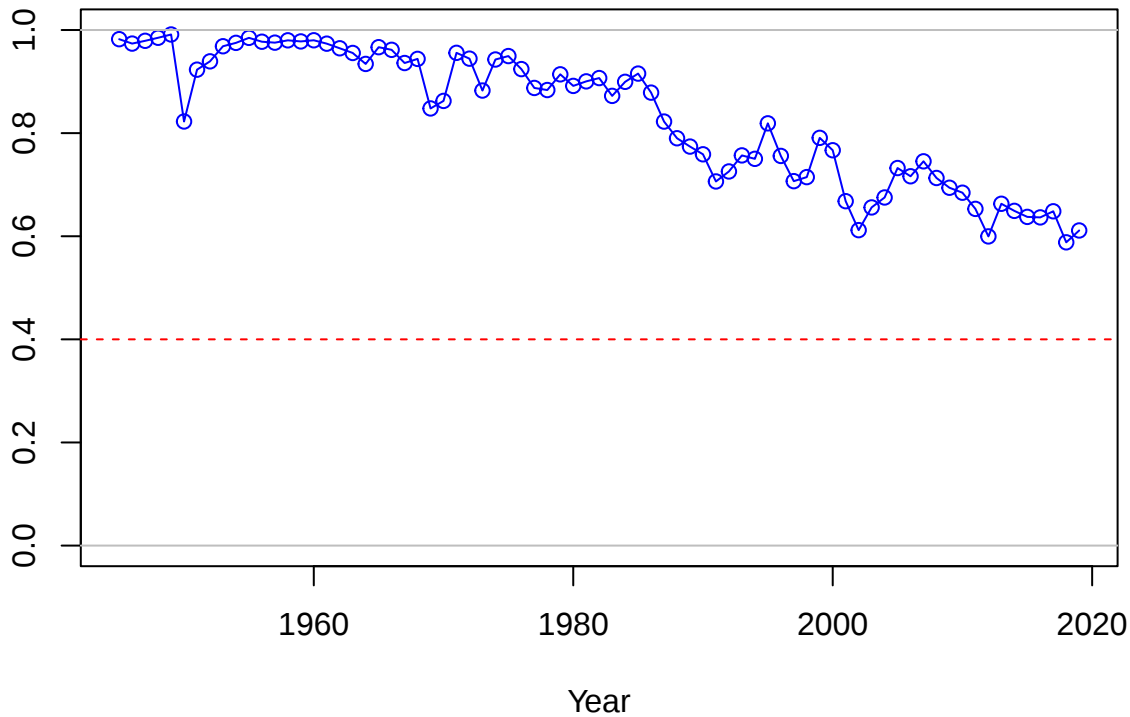
Landings (mt) aggregated across seasons



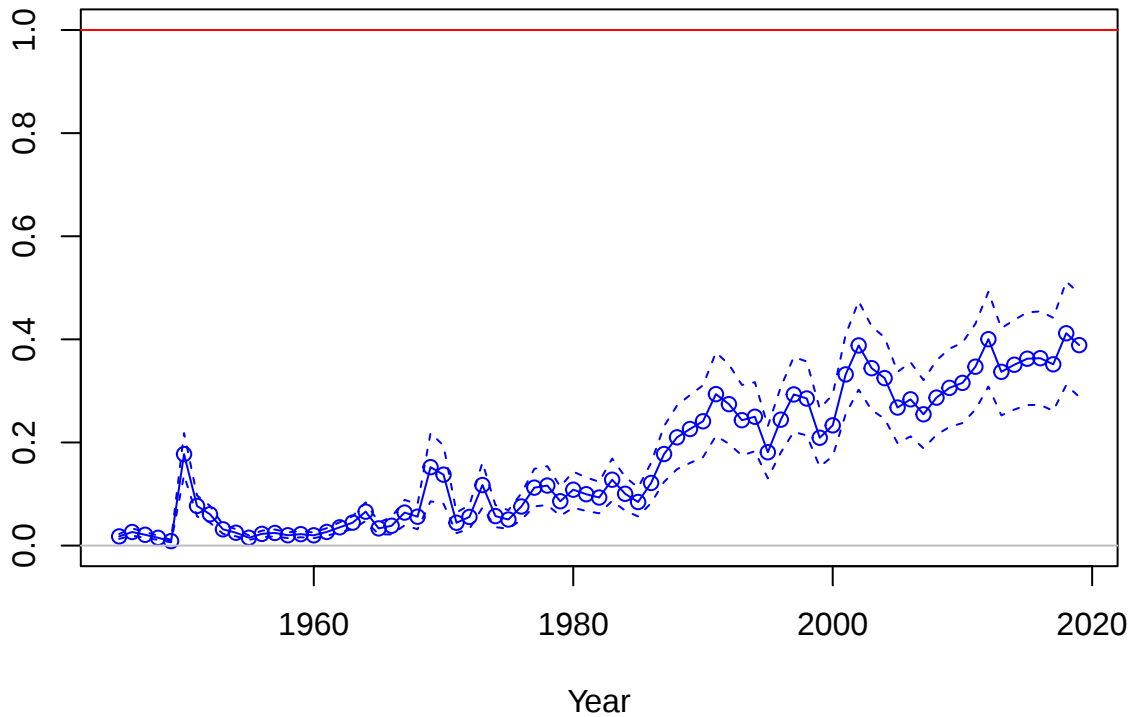
Landings (mt) aggregated across seasons



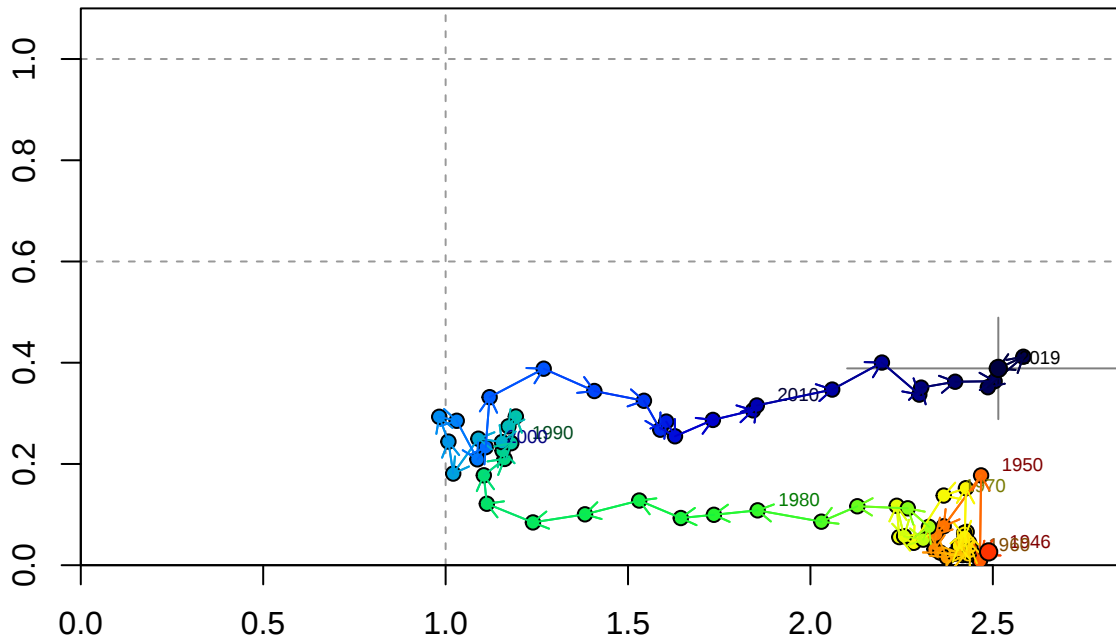
SPR



Fishing intensity: 1-SPR

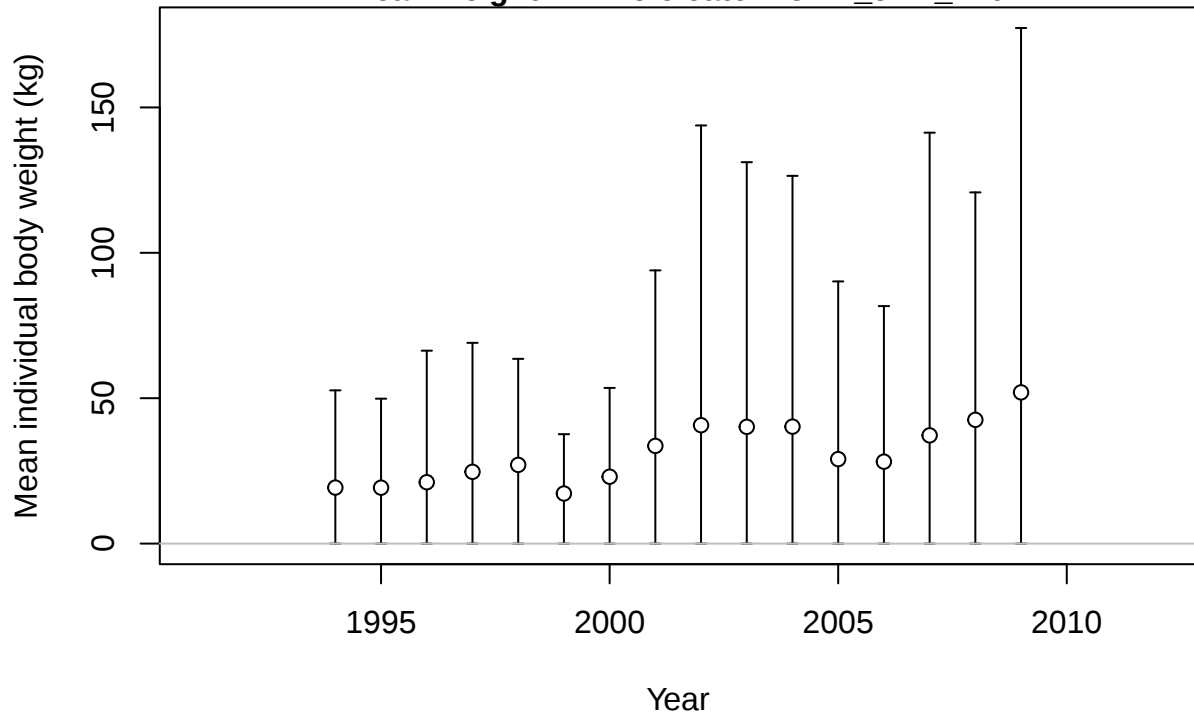


Fishing intensity: 1-SPR

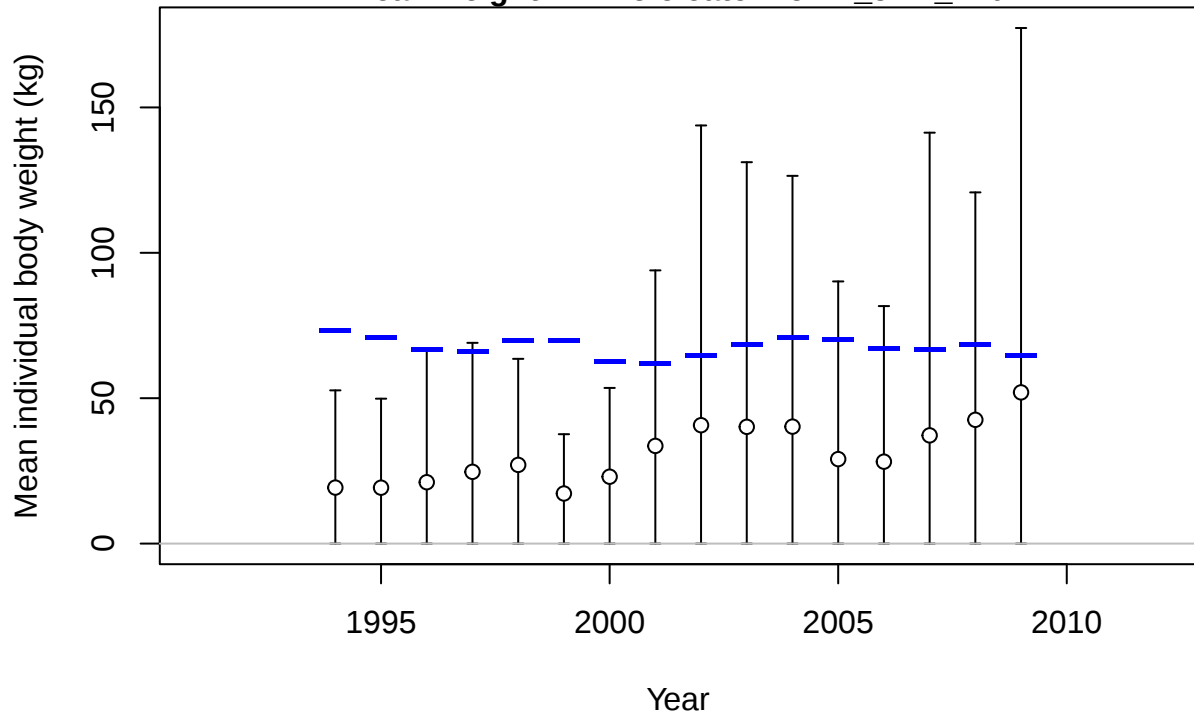


Relative spawning output: $B/(40\% \times \text{Virgin_Biomass})$

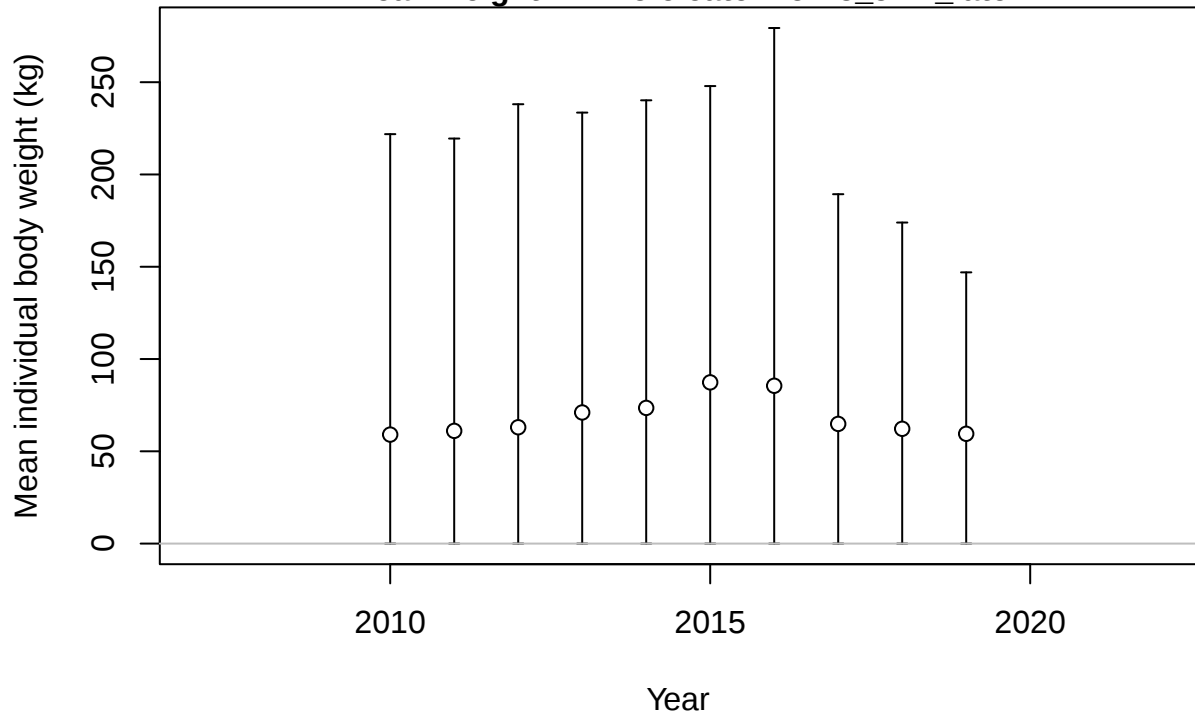
Mean weight in whole catch for I4_JPN_mid



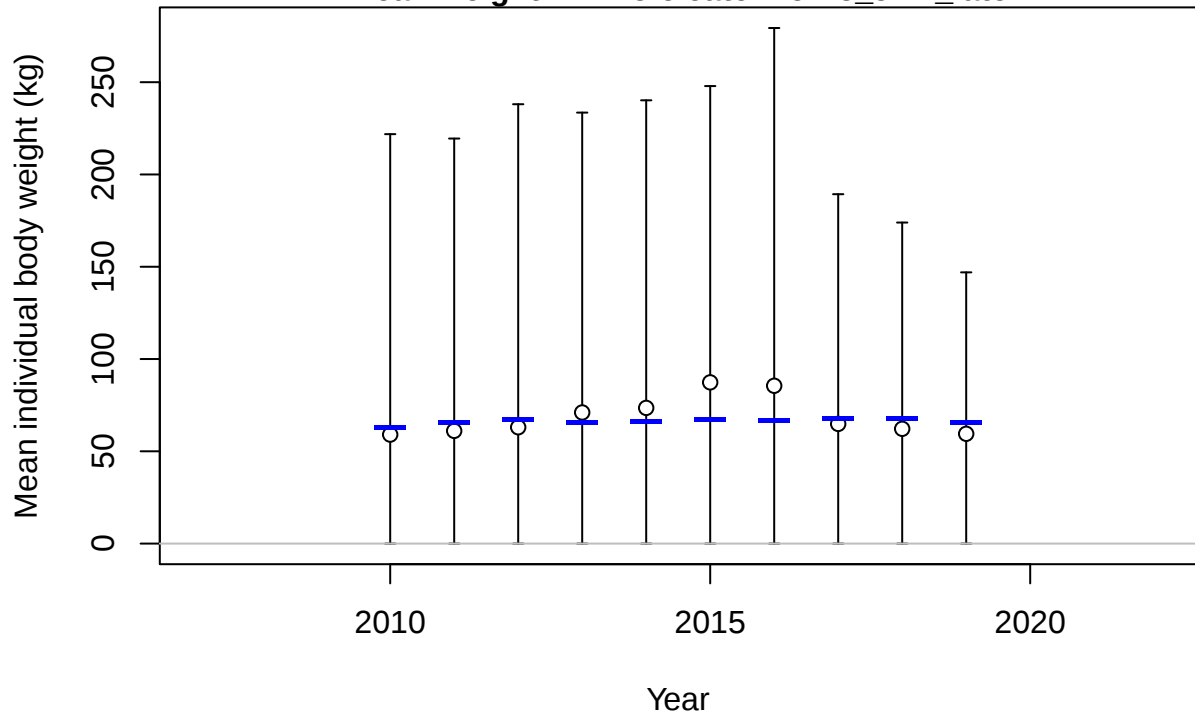
Mean weight in whole catch for I4_JPN_mid



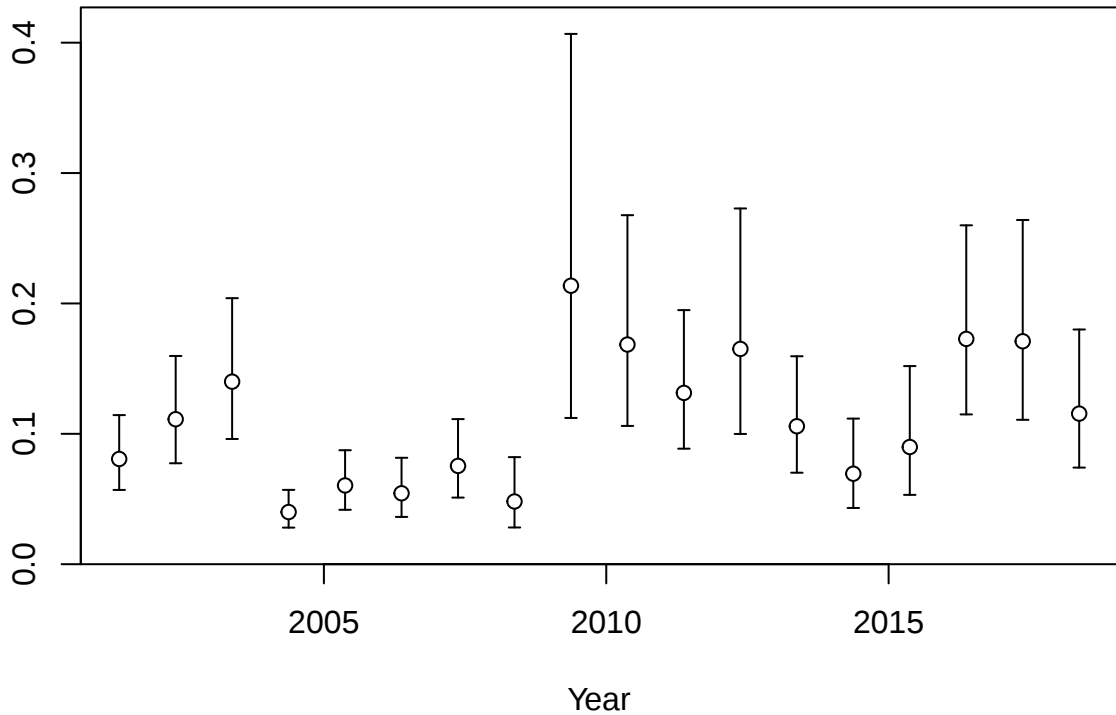
Mean weight in whole catch for I5_JPN_late



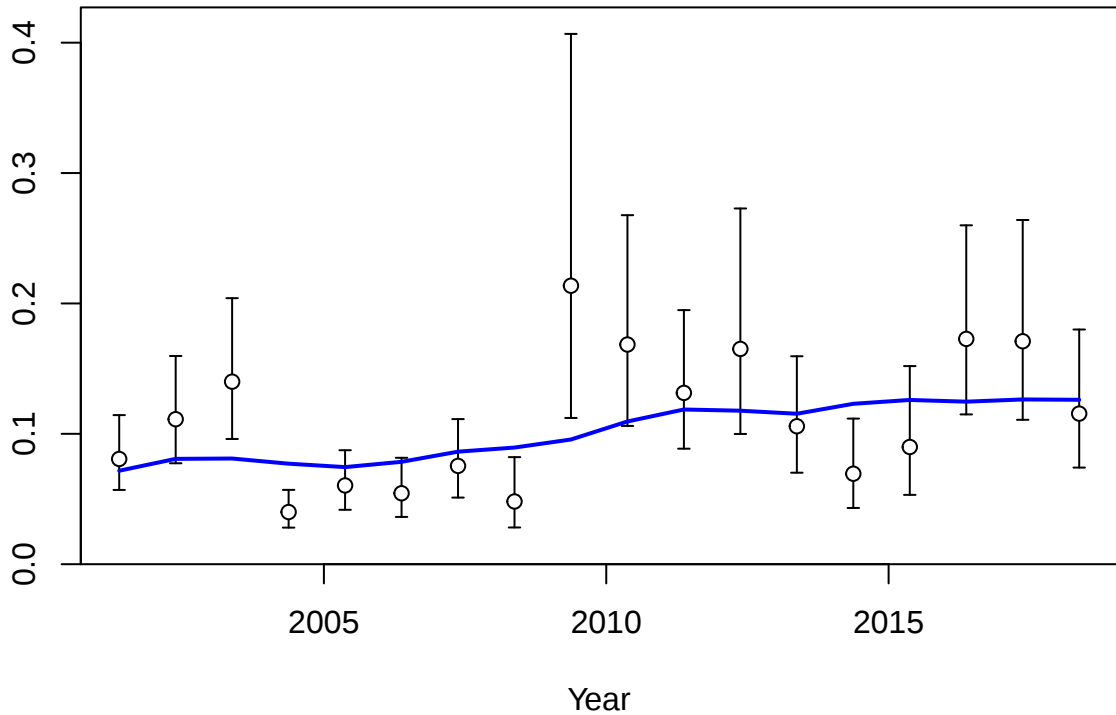
Mean weight in whole catch for I5_JPN_late

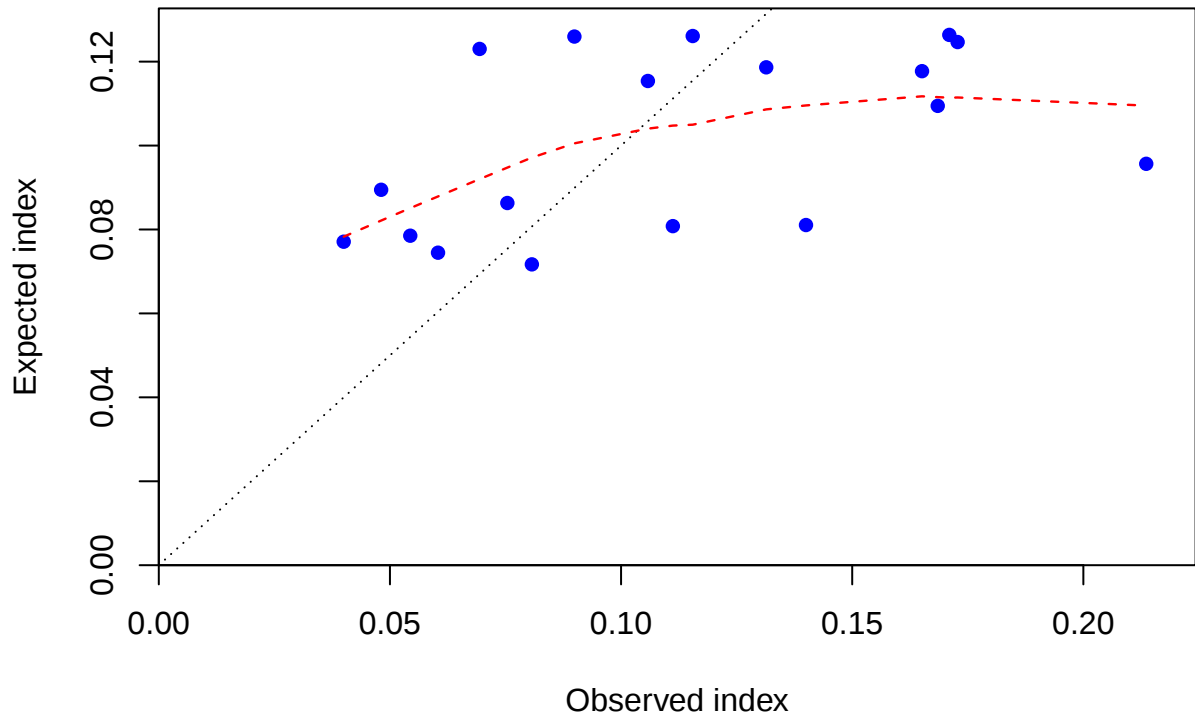


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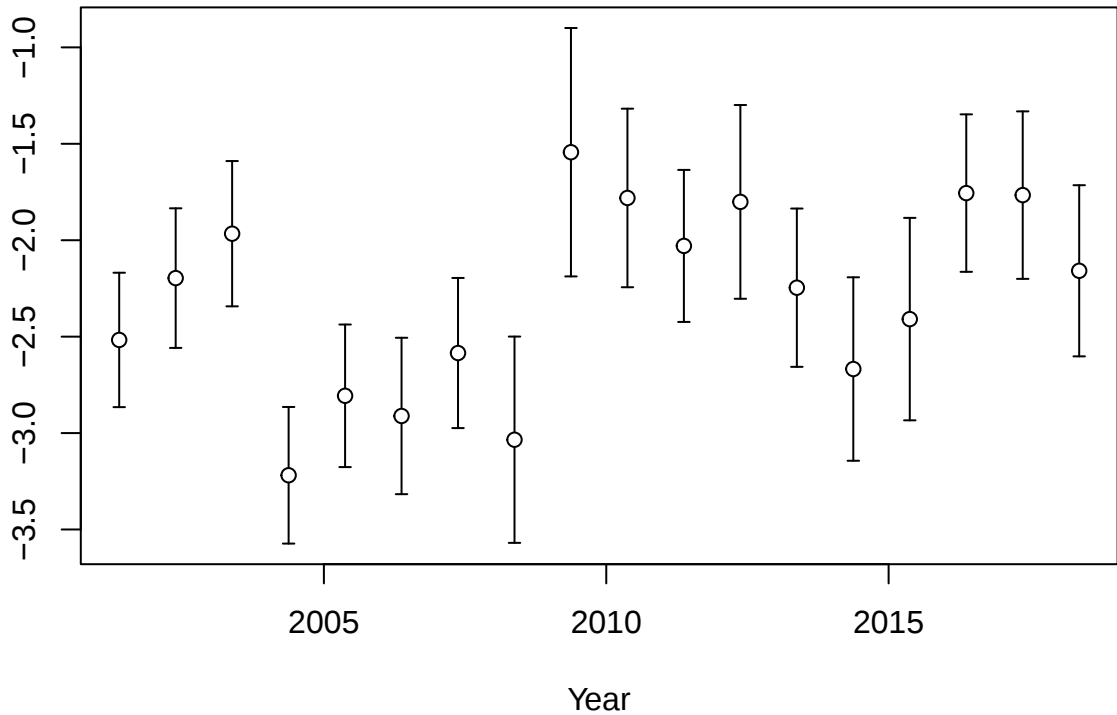


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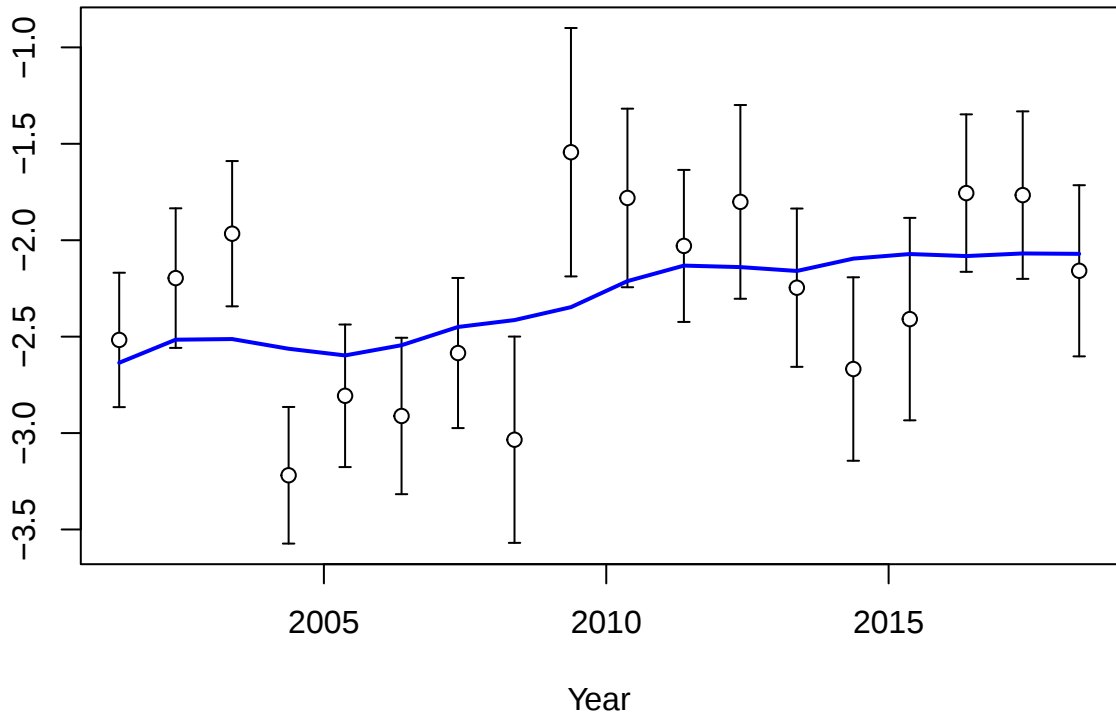


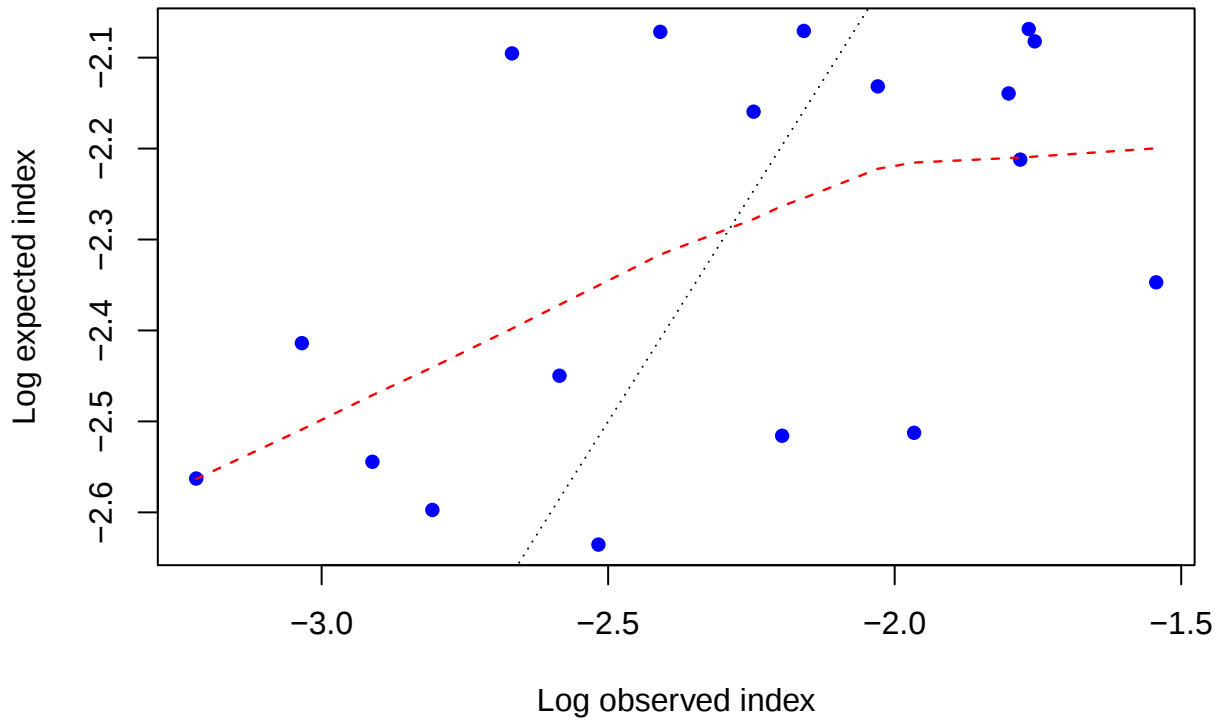


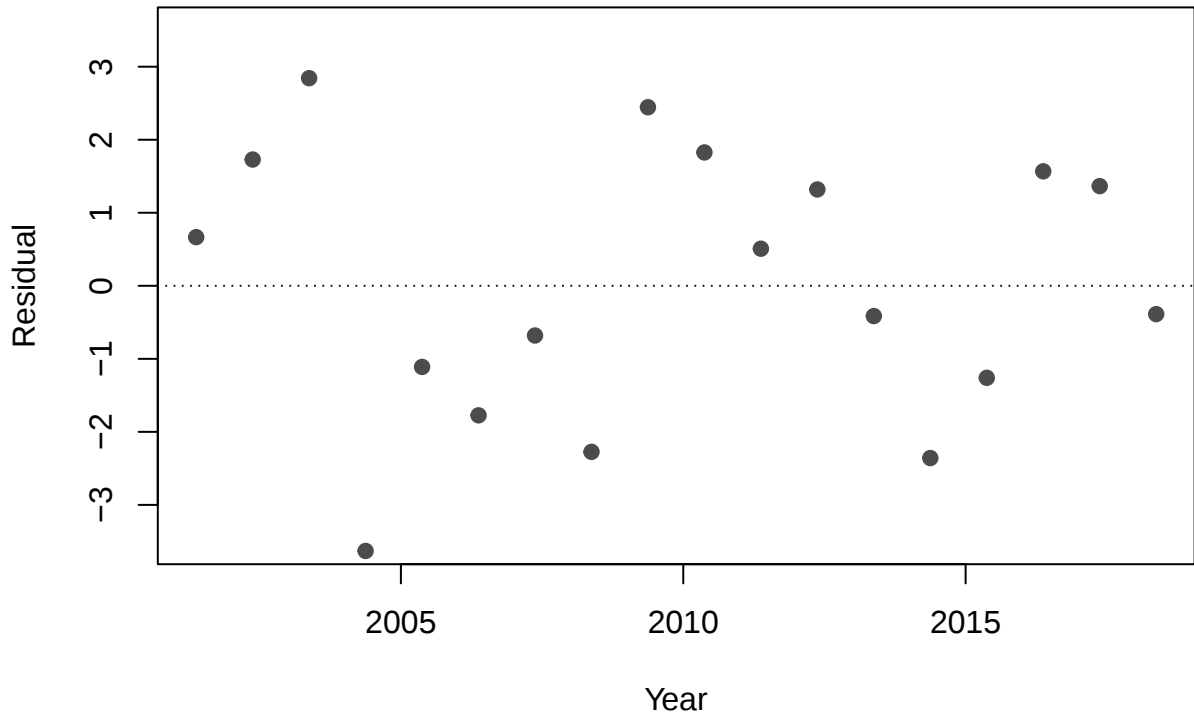
Log index

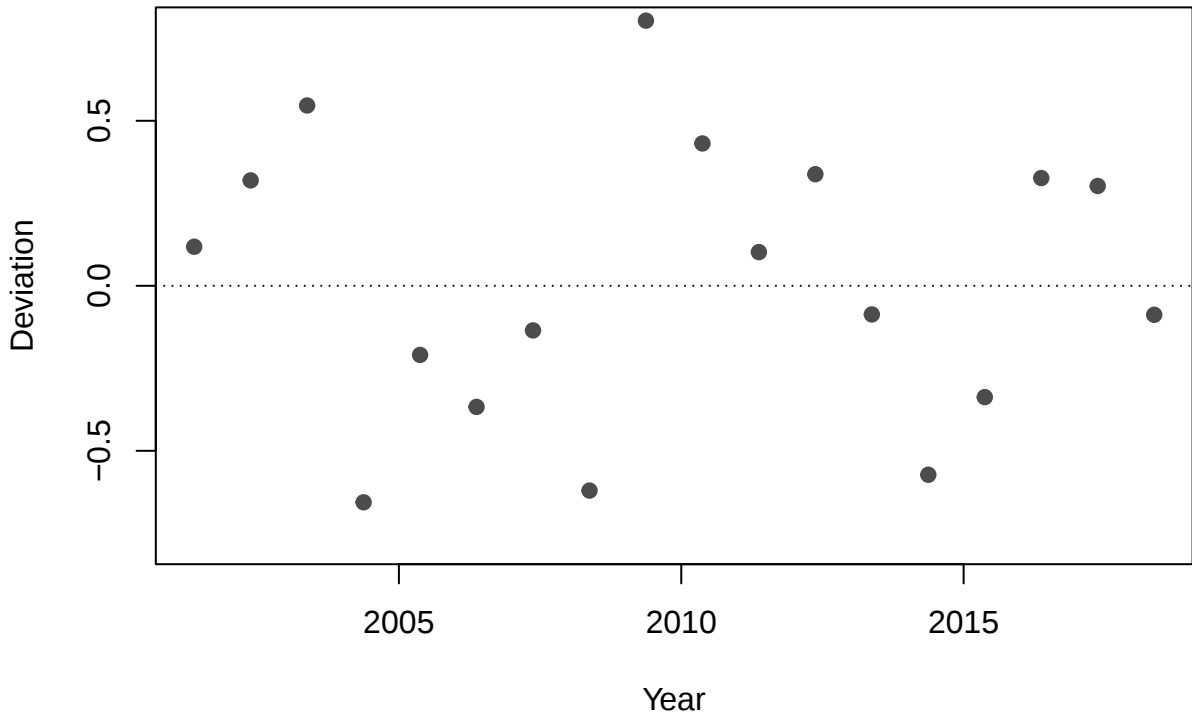


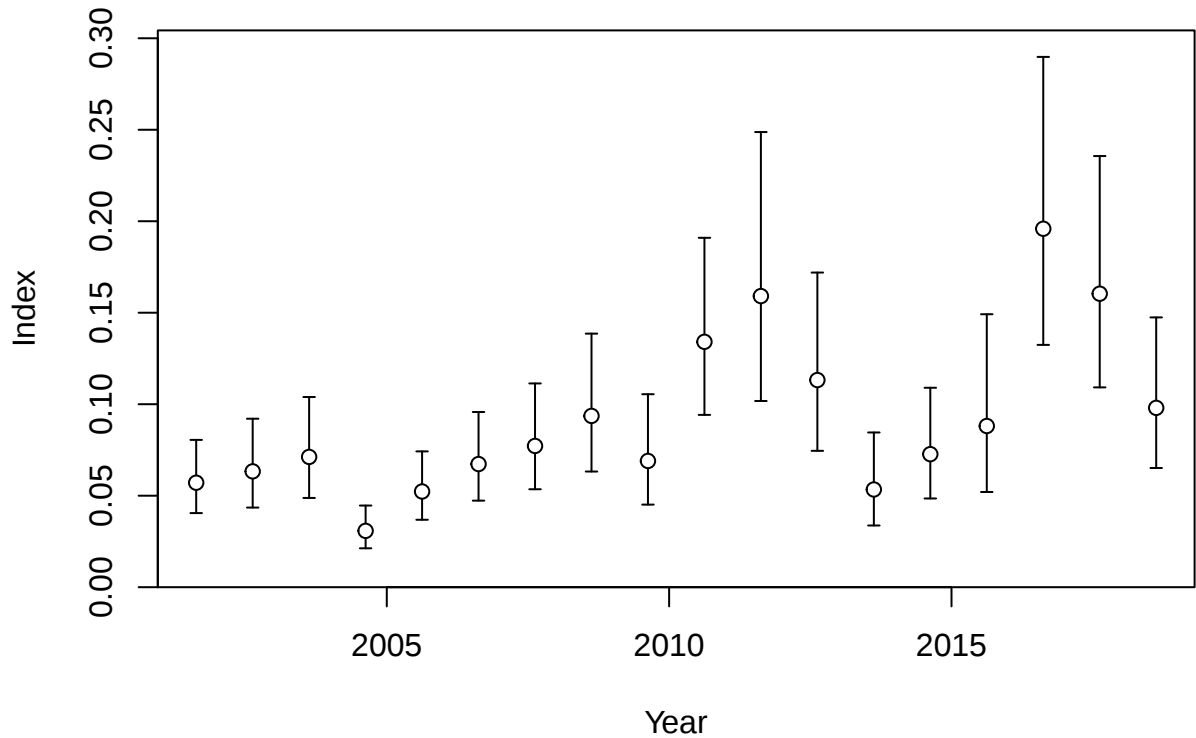
Log index

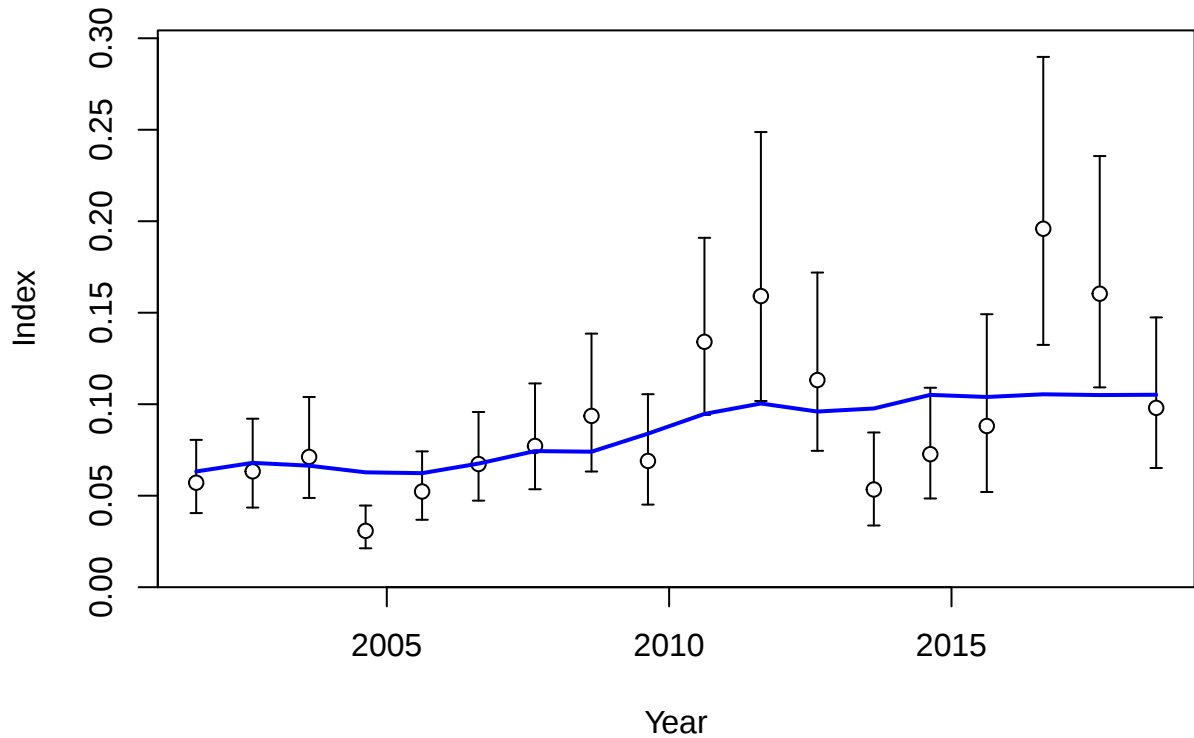


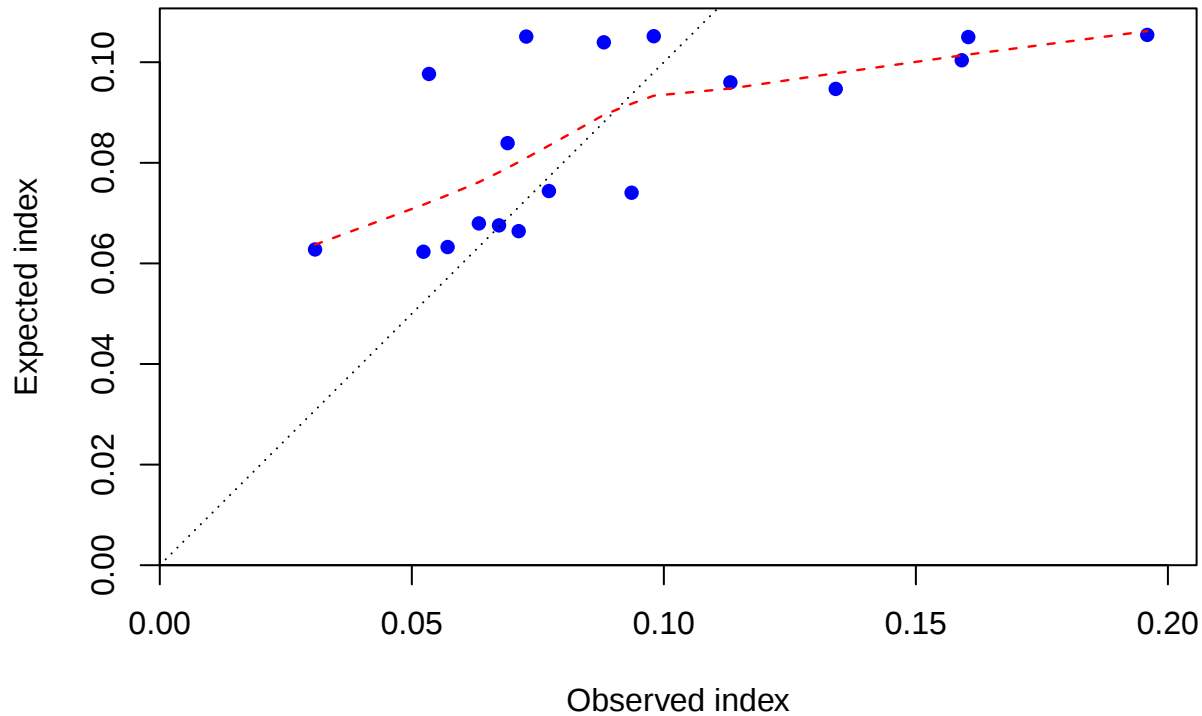












Log index

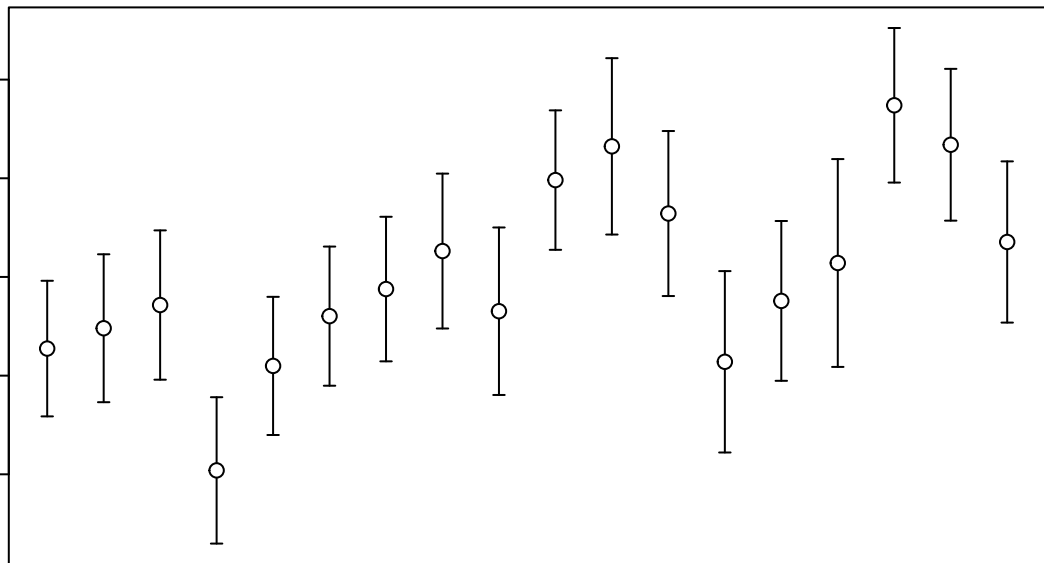
-3.5
-3.0
-2.5
-2.0
-1.5

2005

2010

2015

Year



Log index

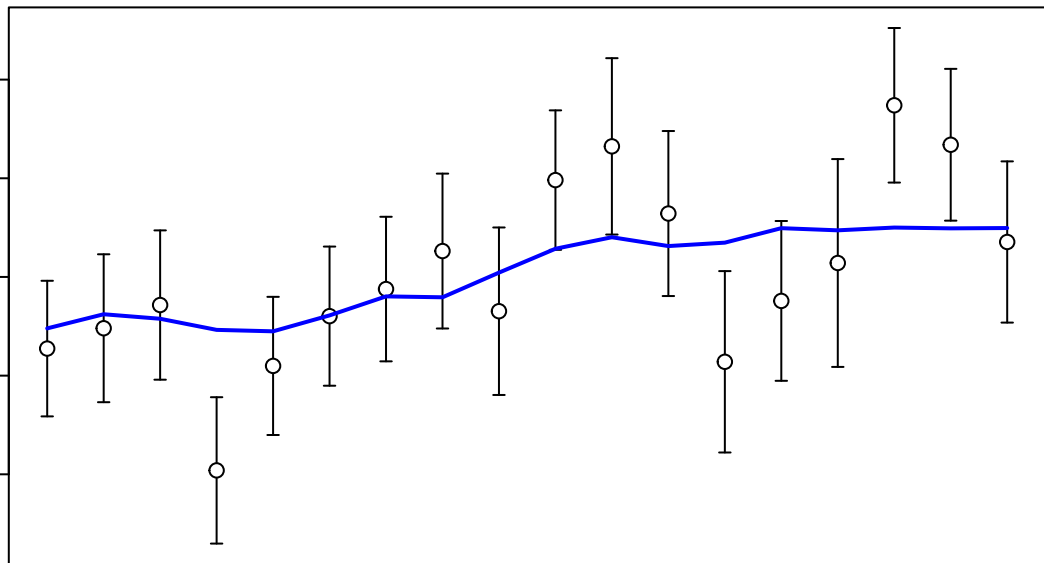
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-3.0
-2.5
-2.0
-1.5

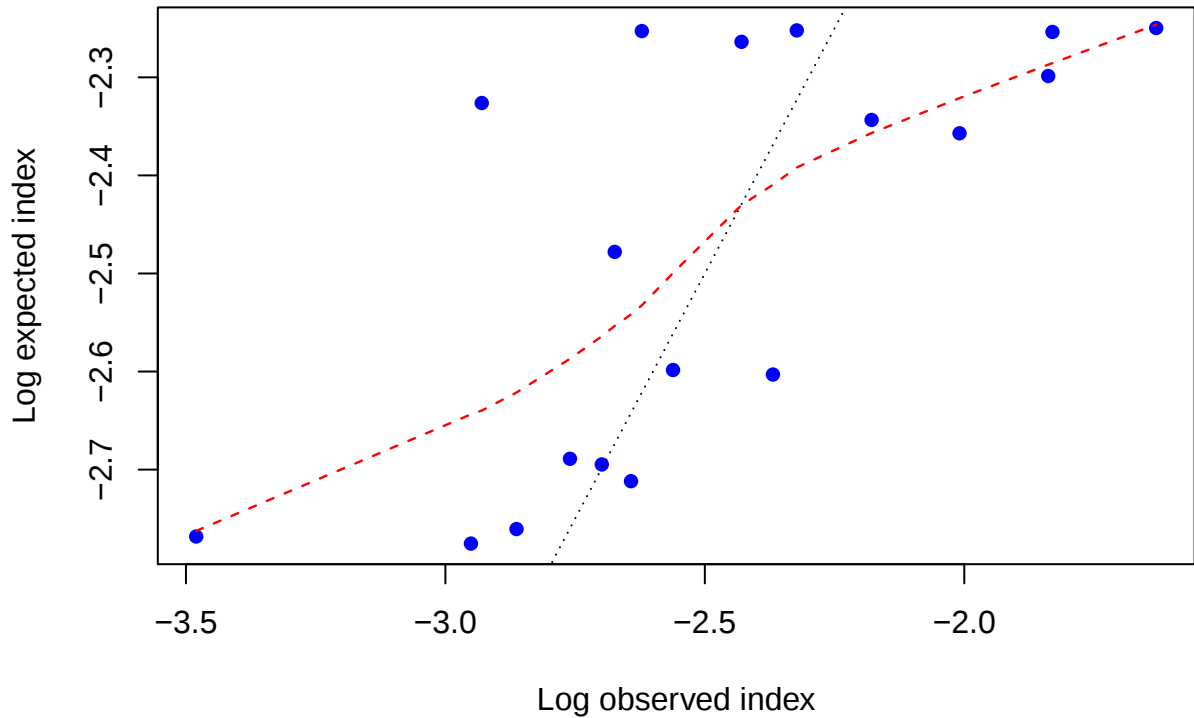
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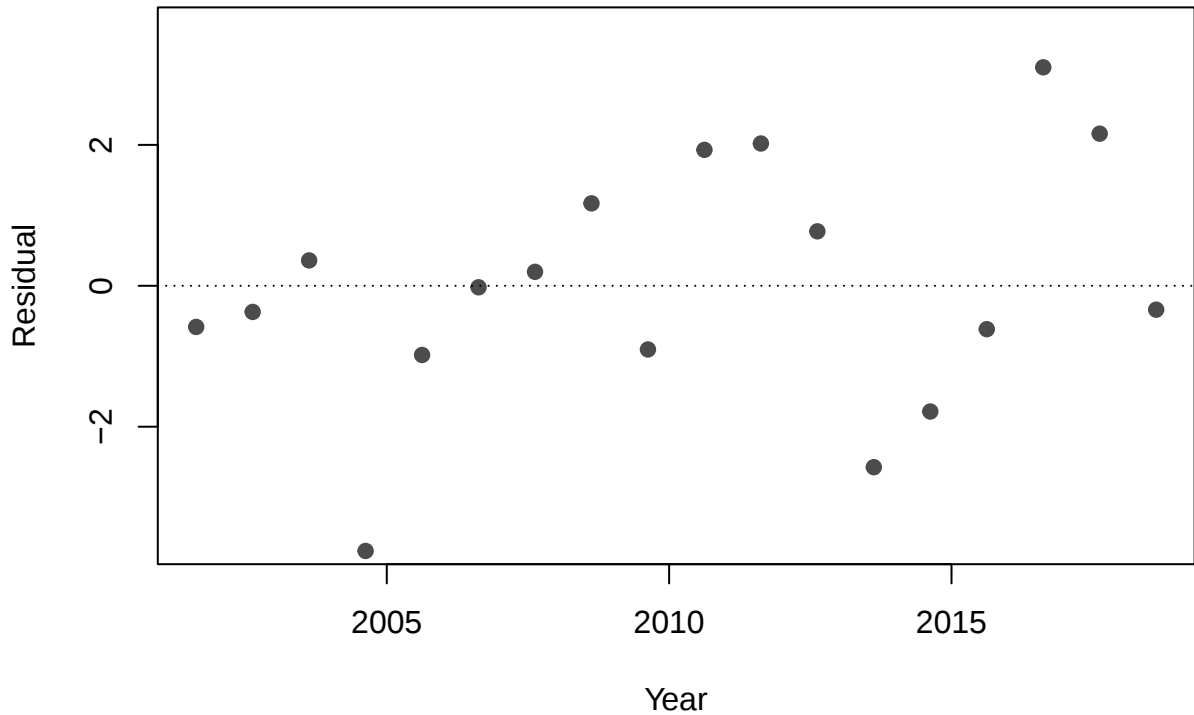
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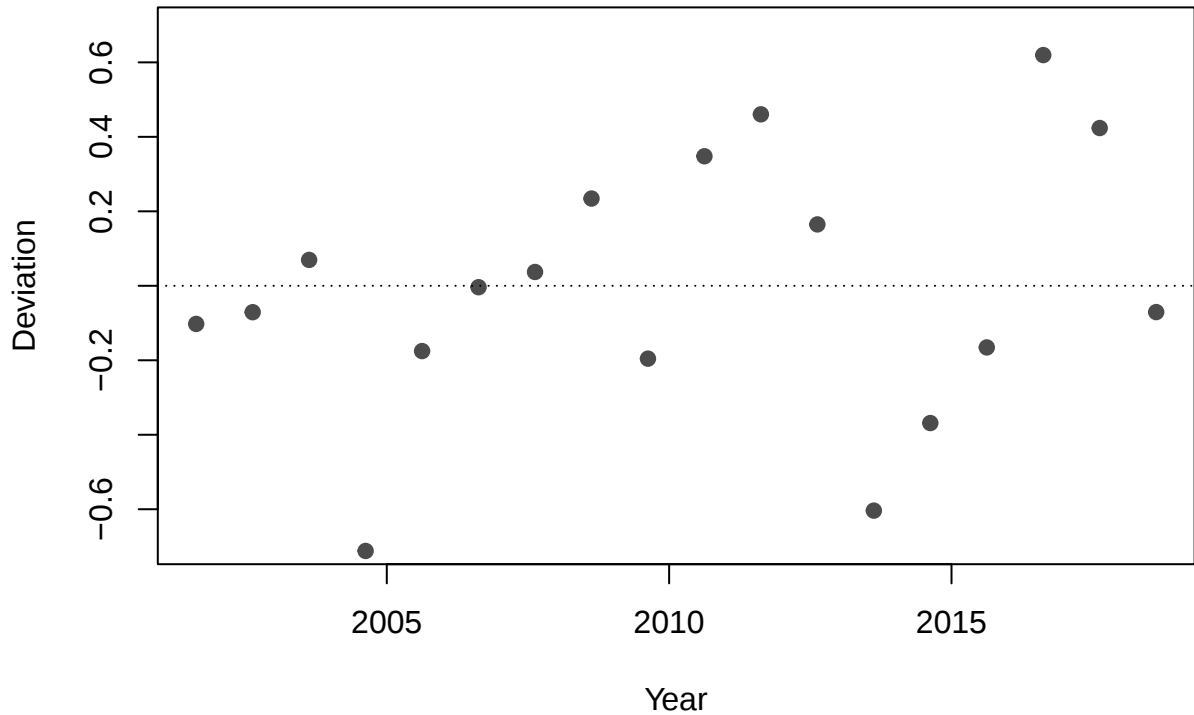
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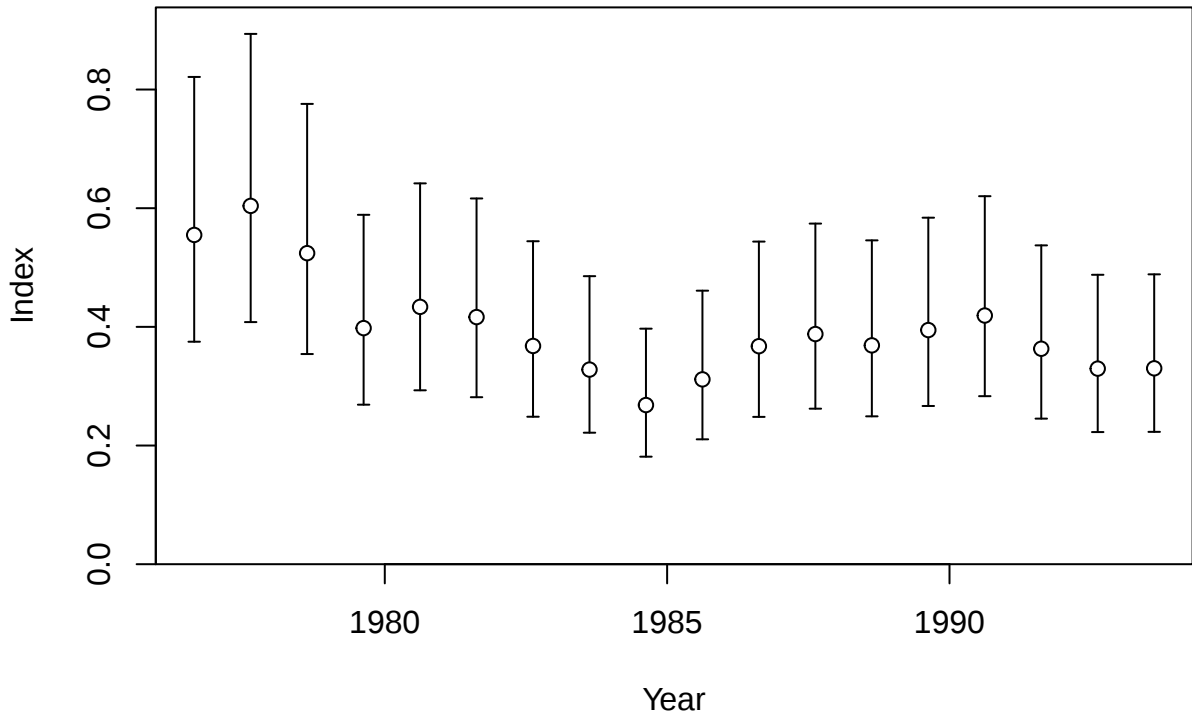
Year

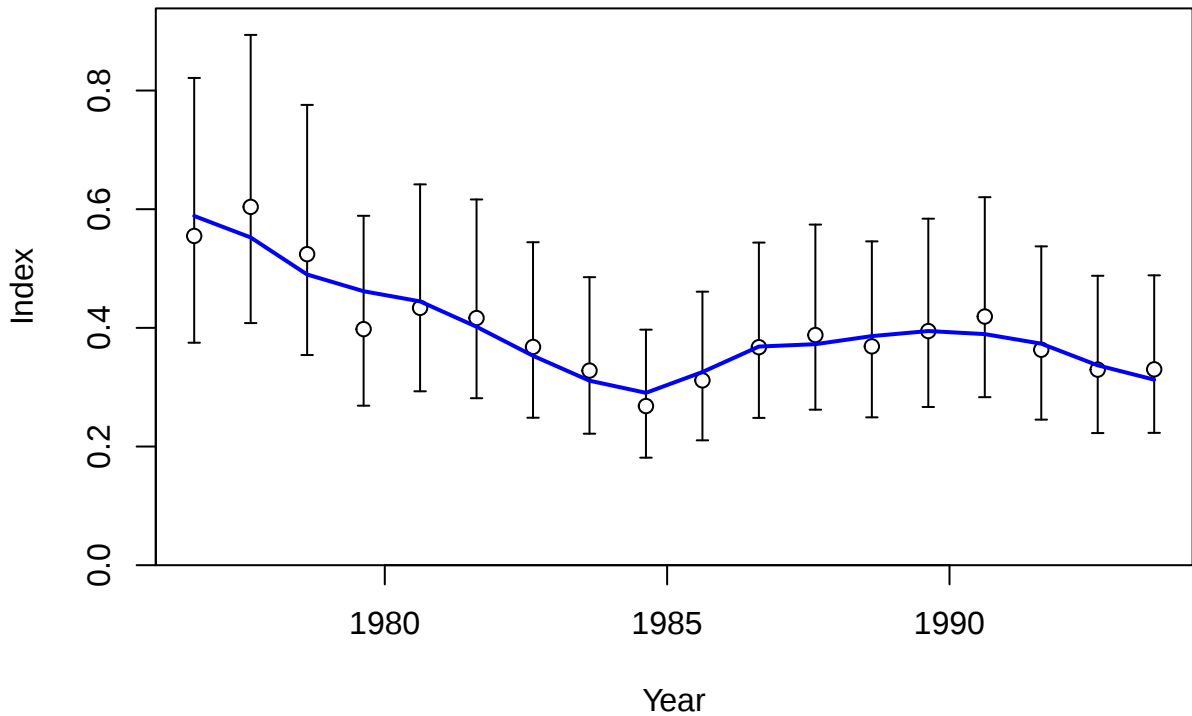




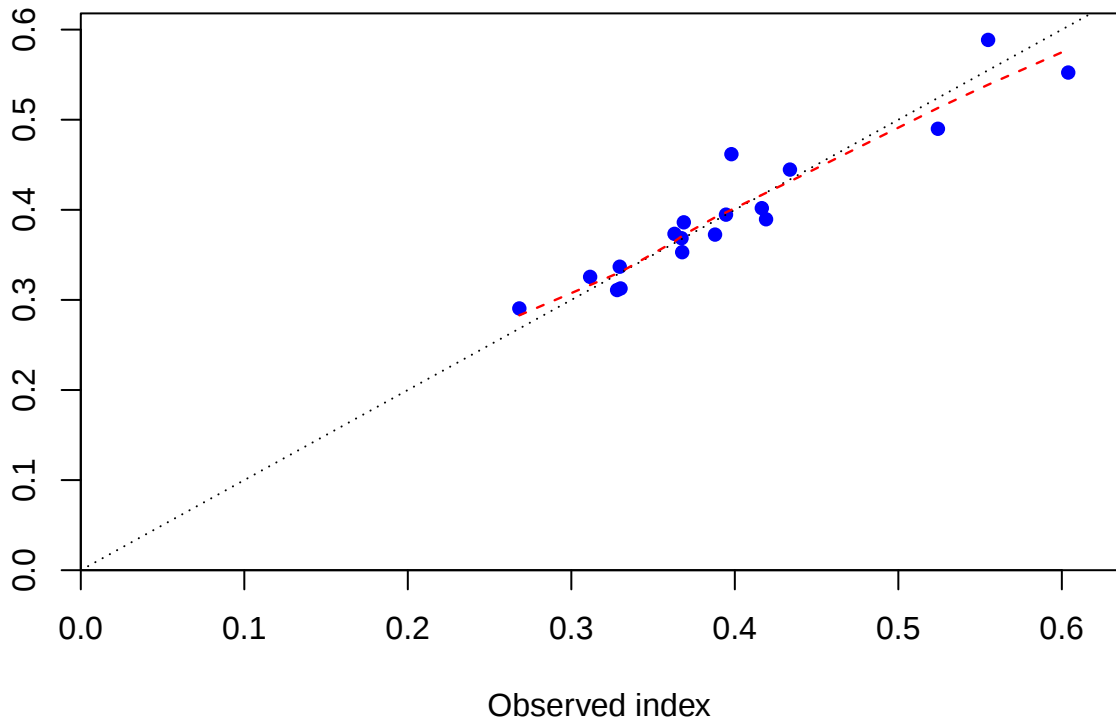








Expected index



Log index

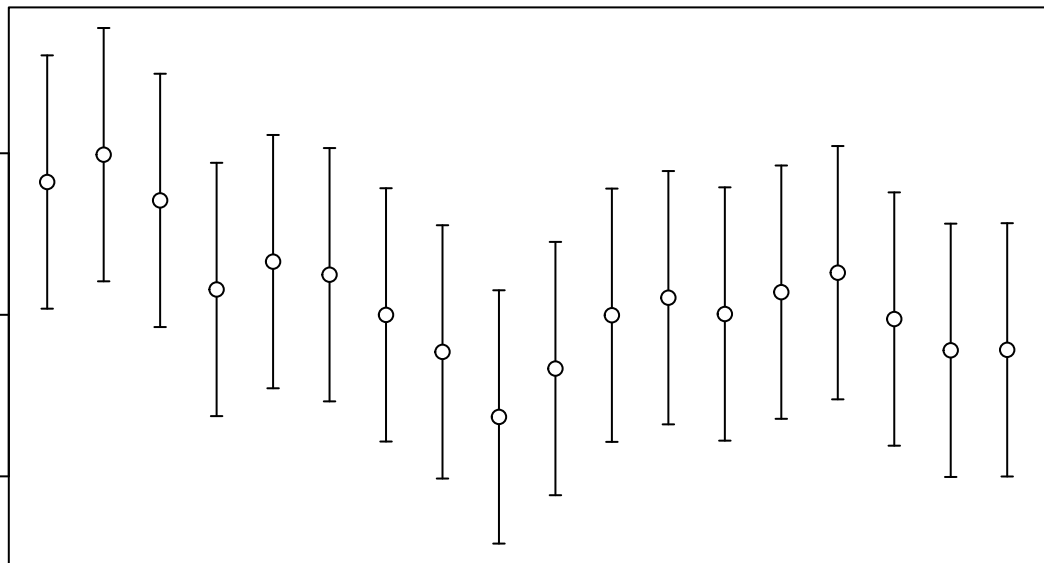
-0.5
-1.0
-1.5

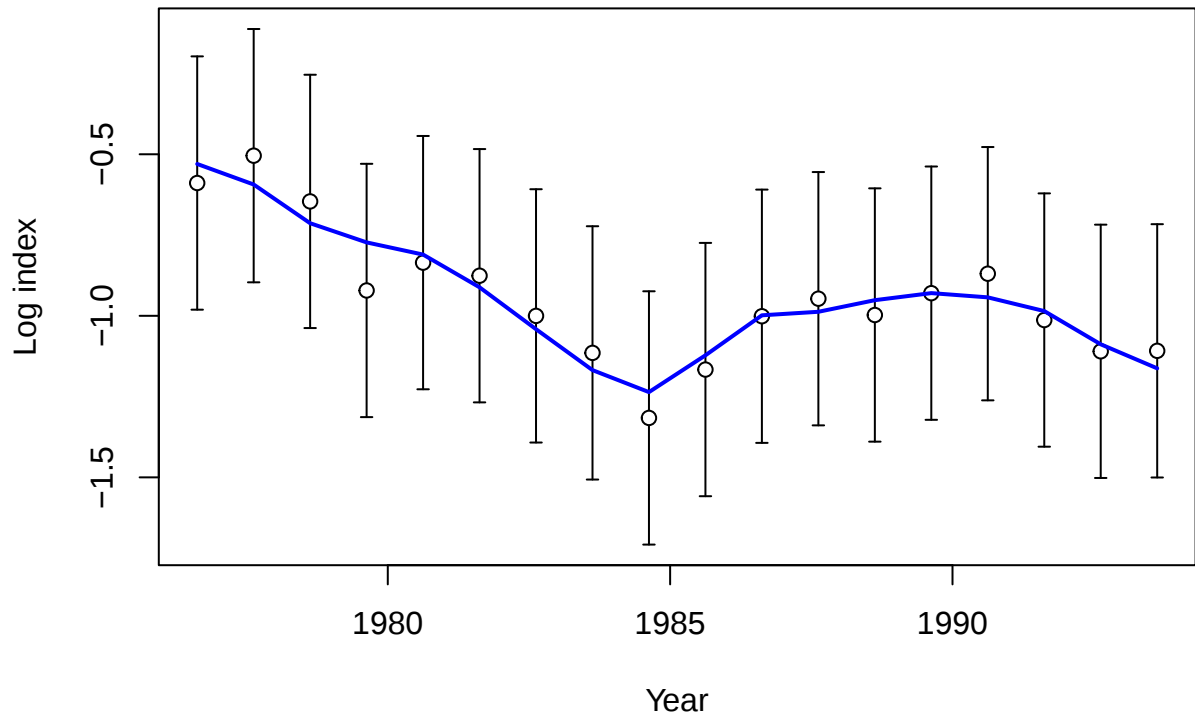
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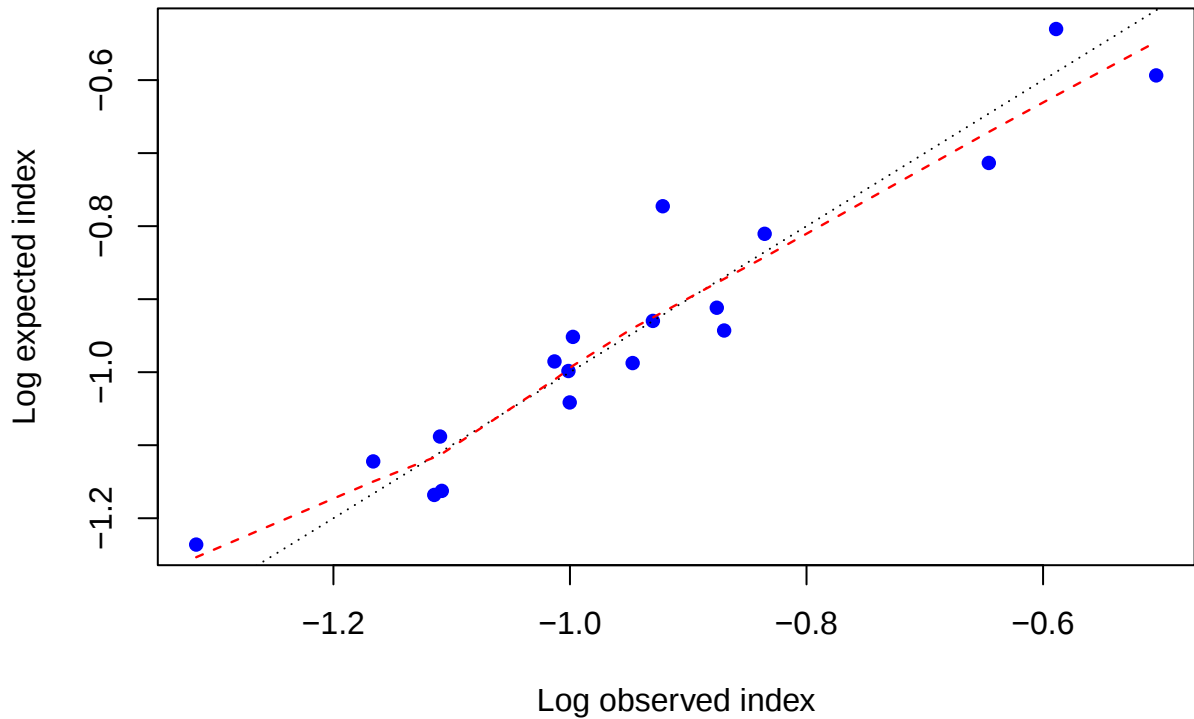
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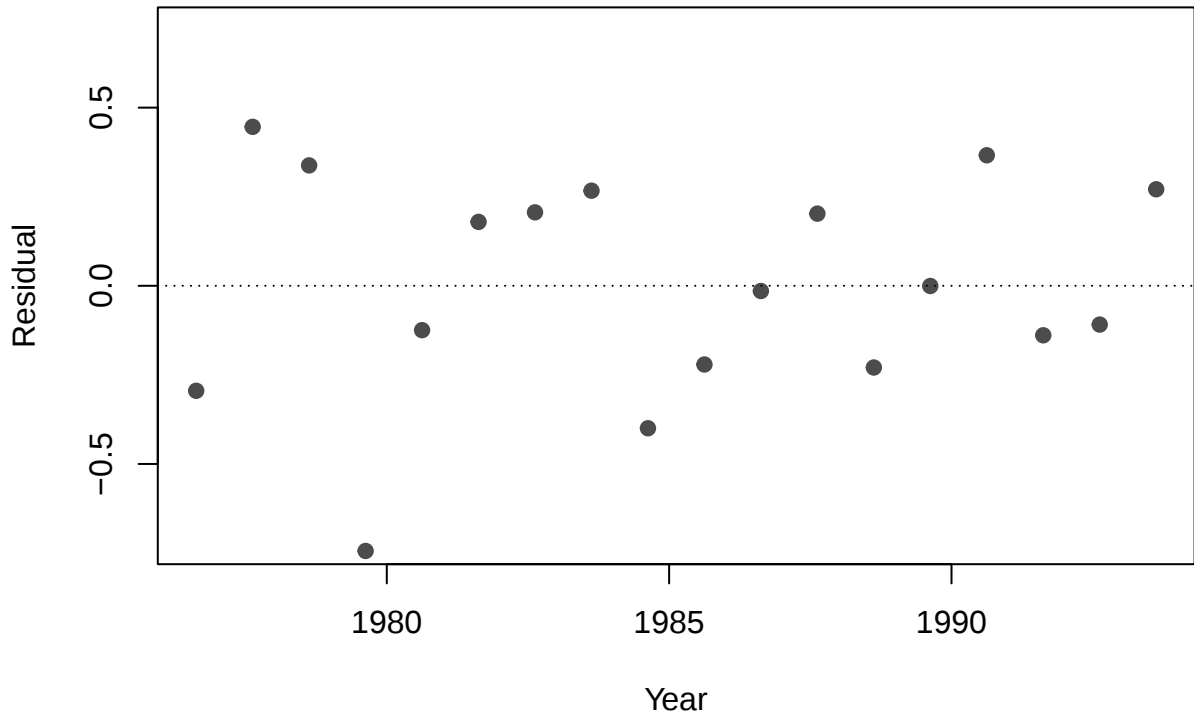
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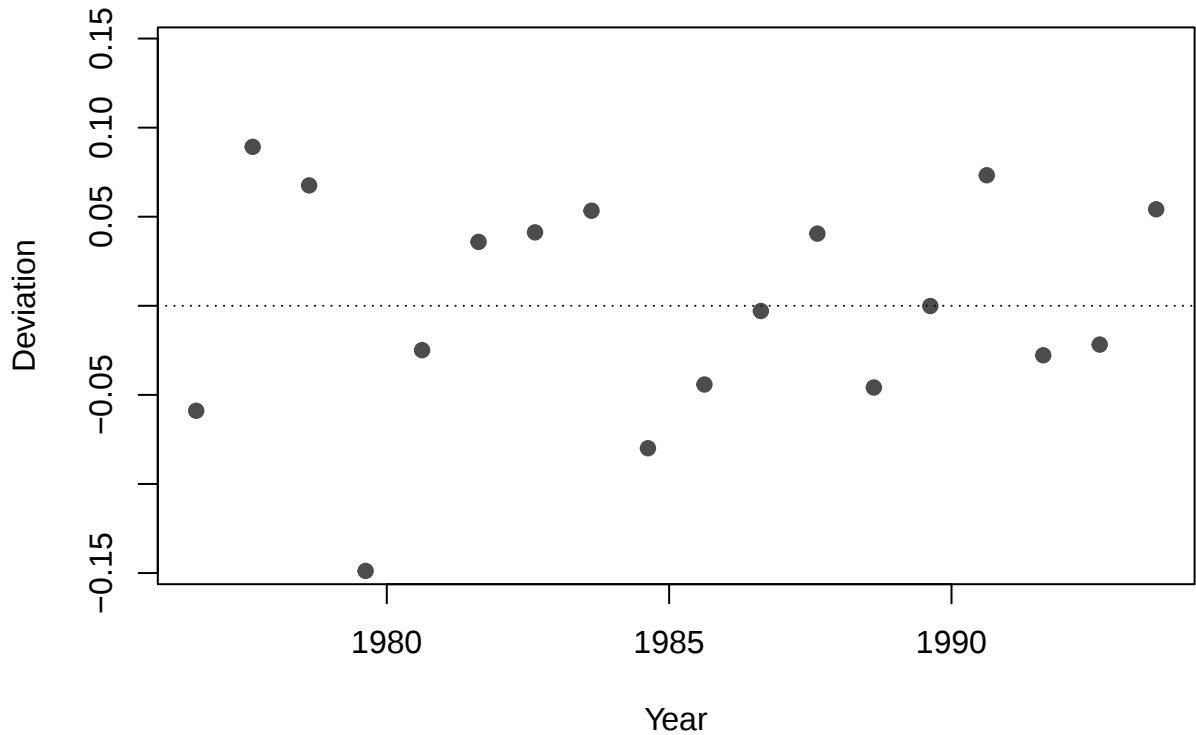
Year



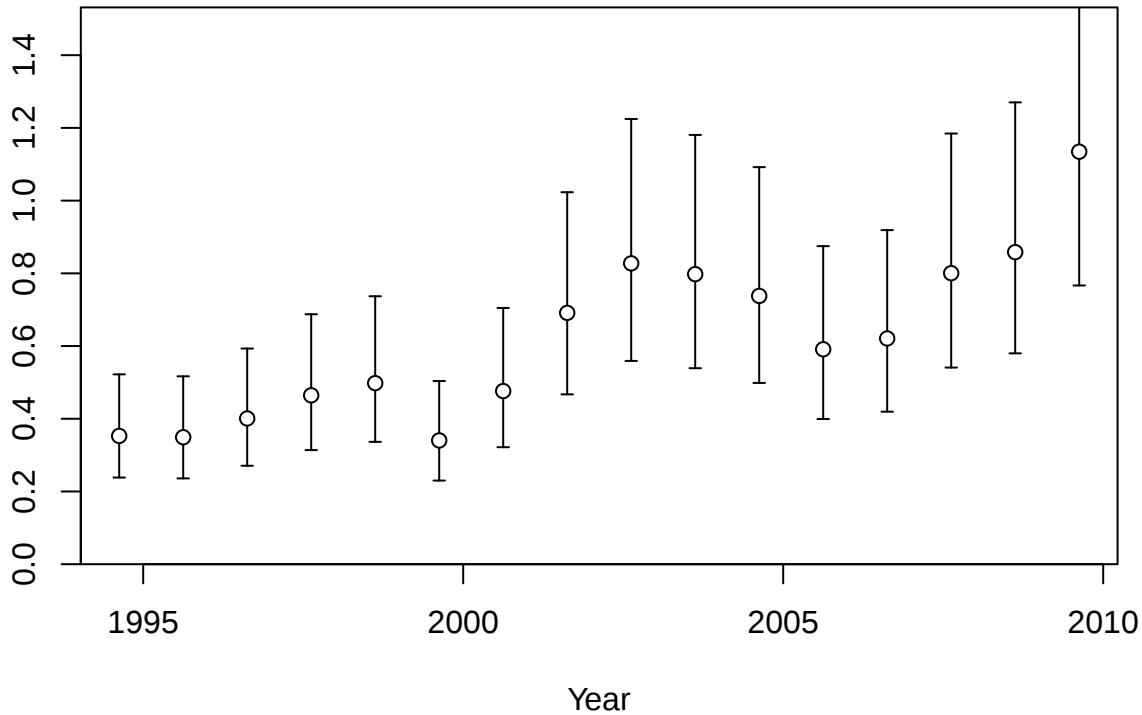




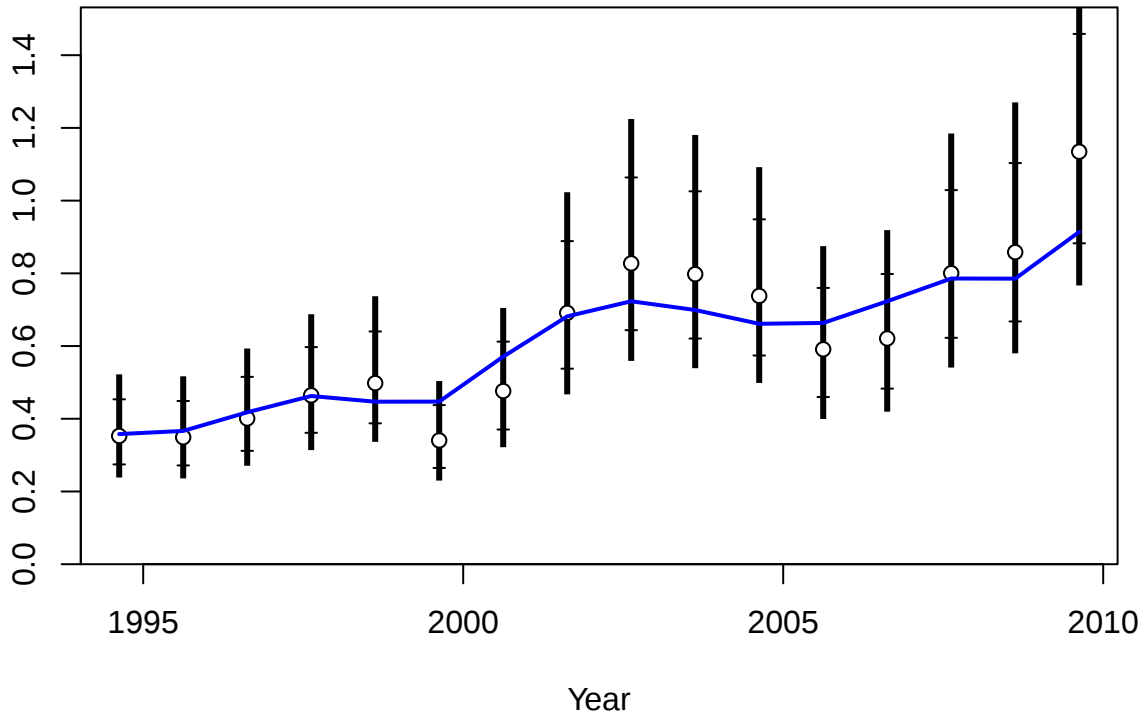




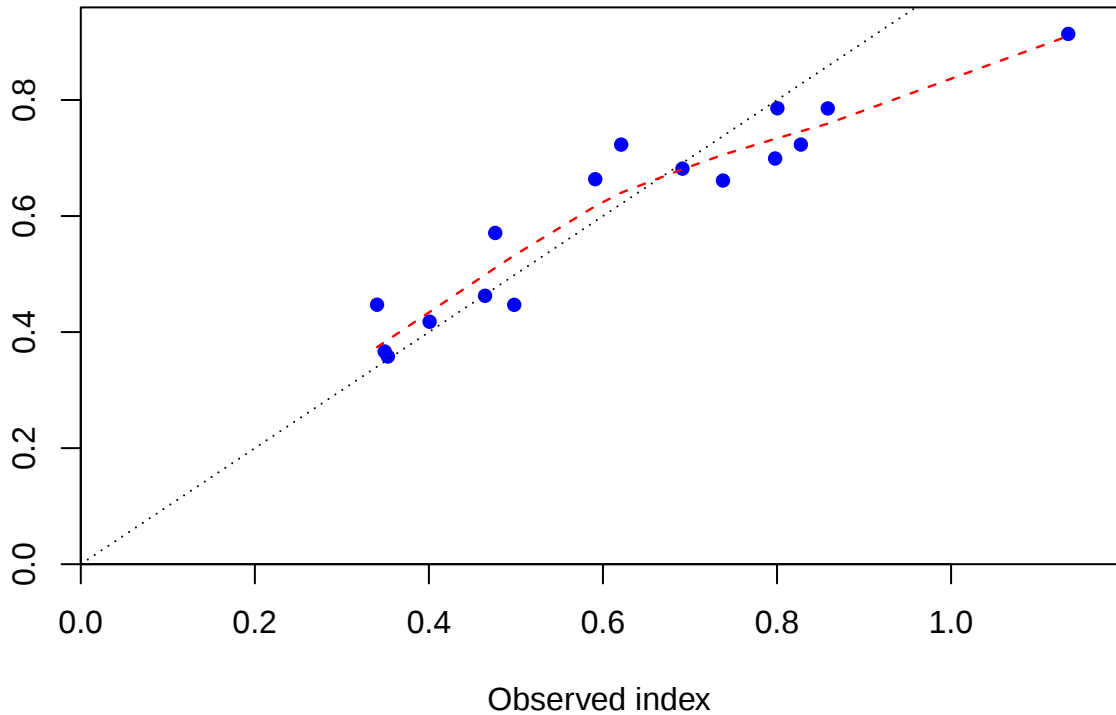
Index



Index



Expected index



Log index

0.0
-0.5
-1.0

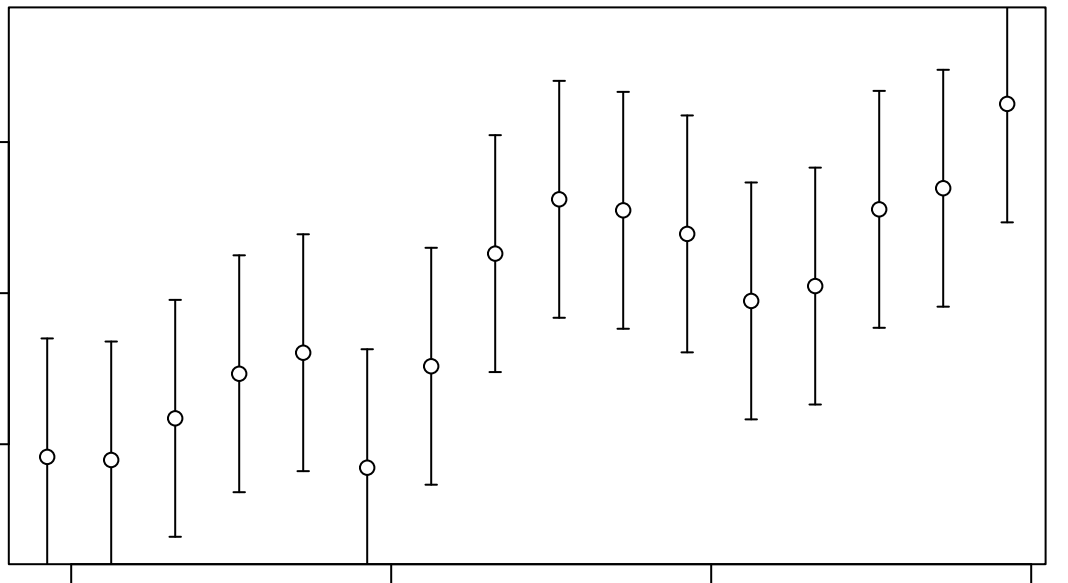
1995

2000

2005

2010

Year



Log index

-1.0
-0.5
0.0

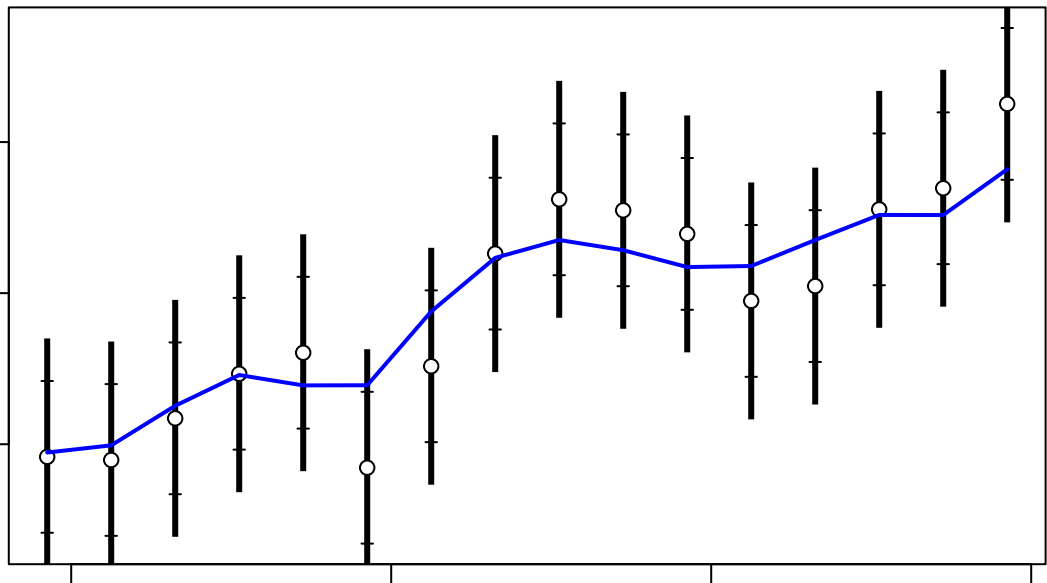
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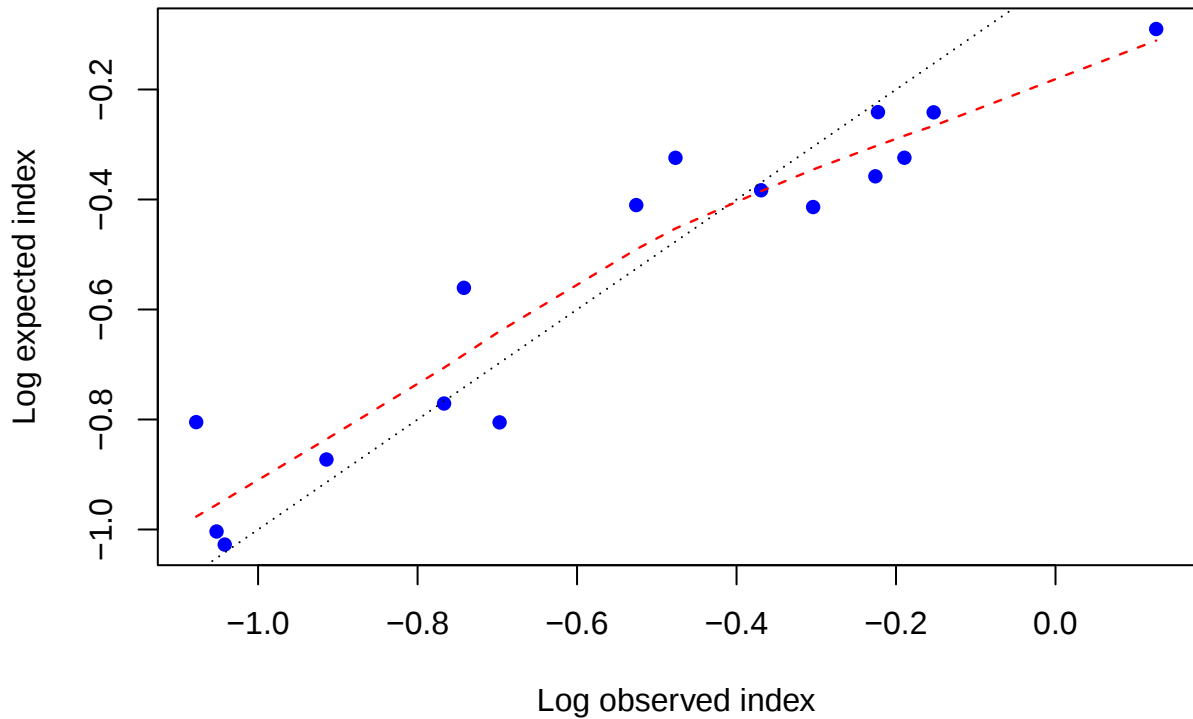
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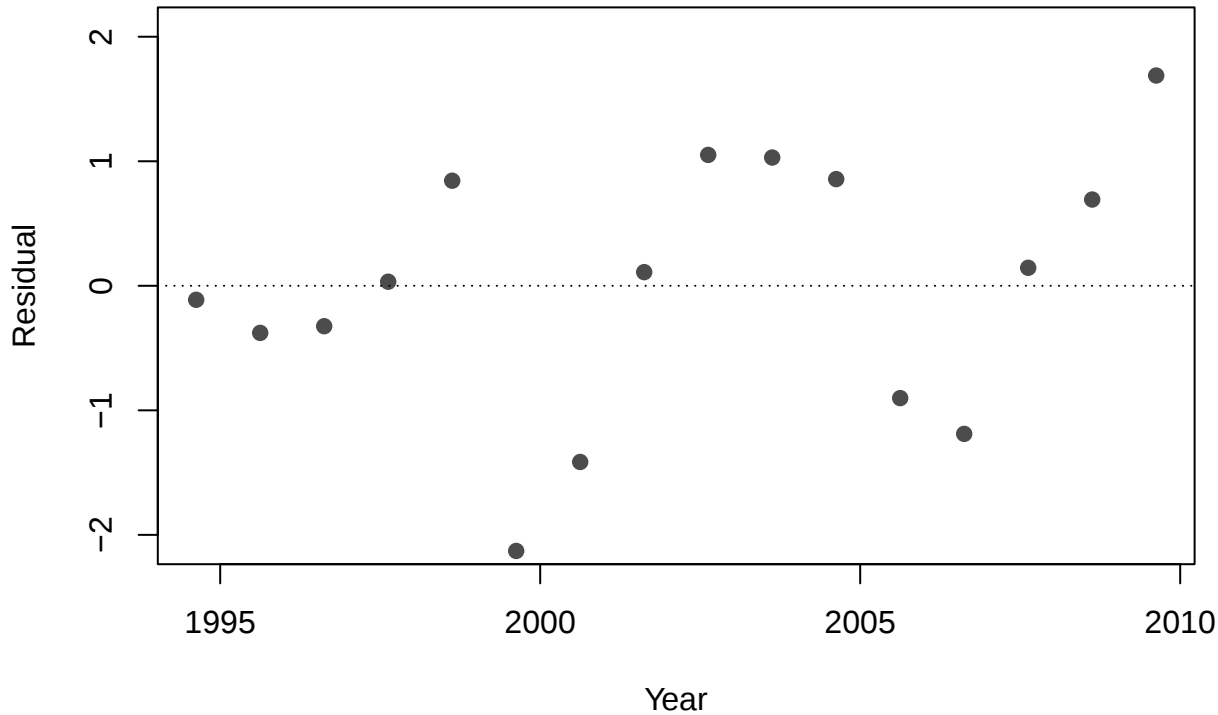
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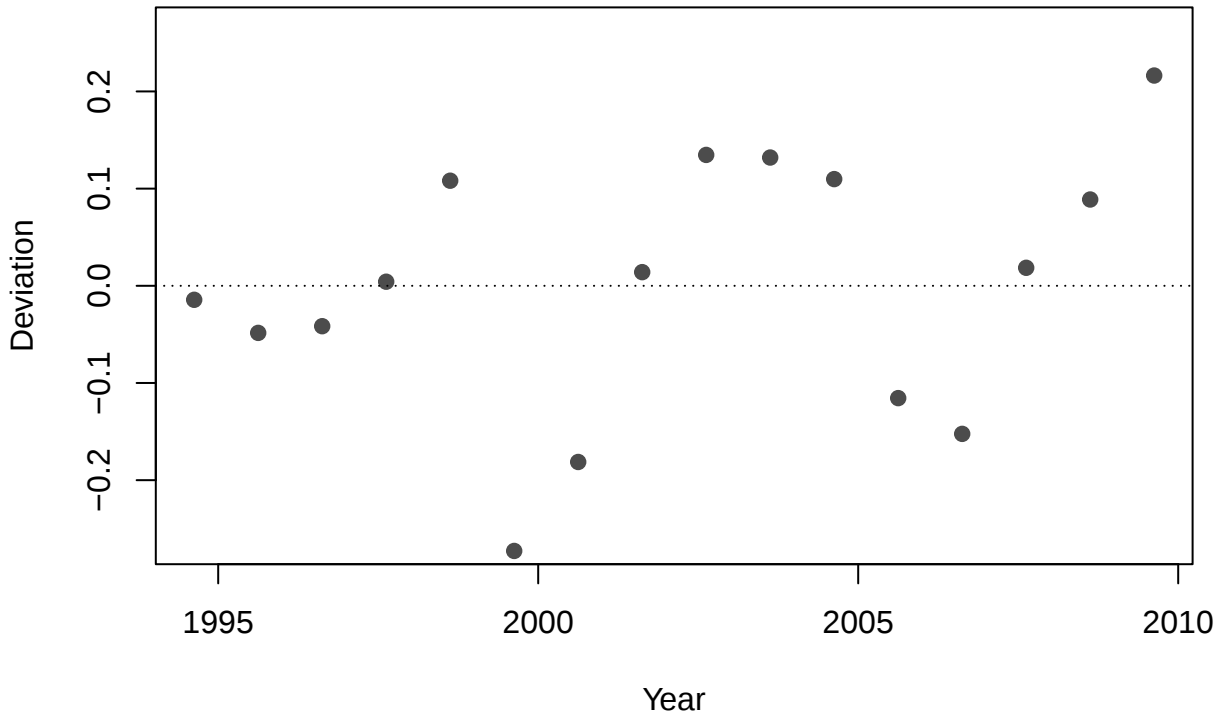
2010

Year









Index

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2.0
1.5
1.0
0.5
0.0

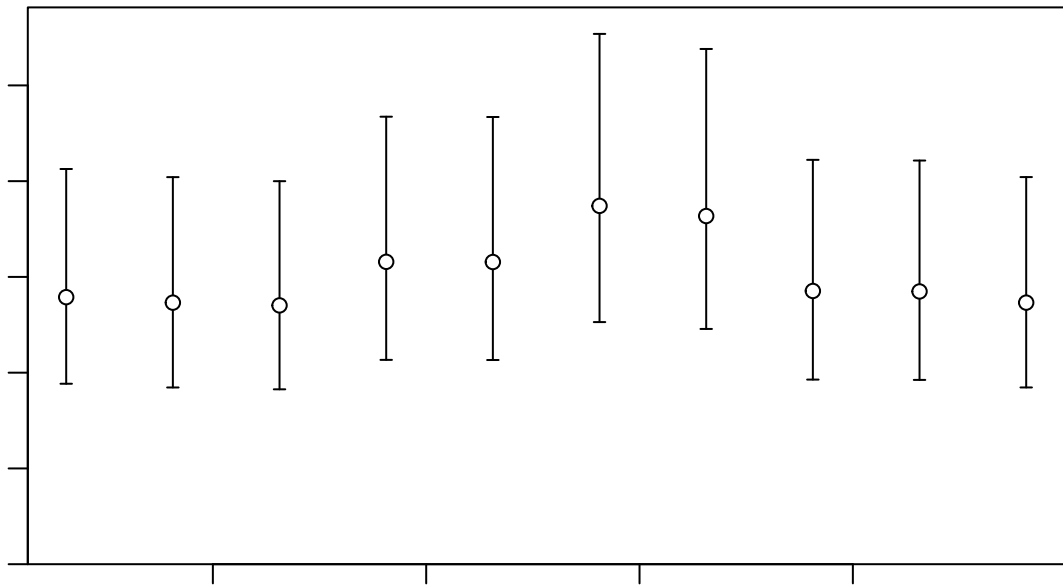
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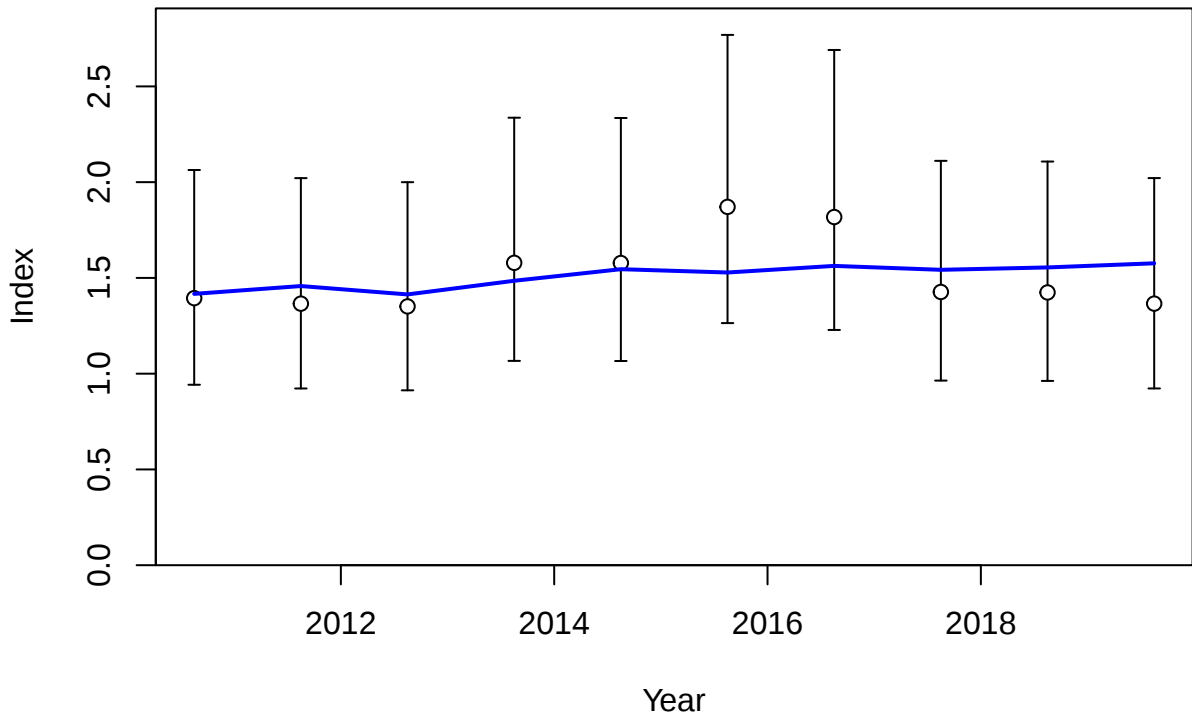
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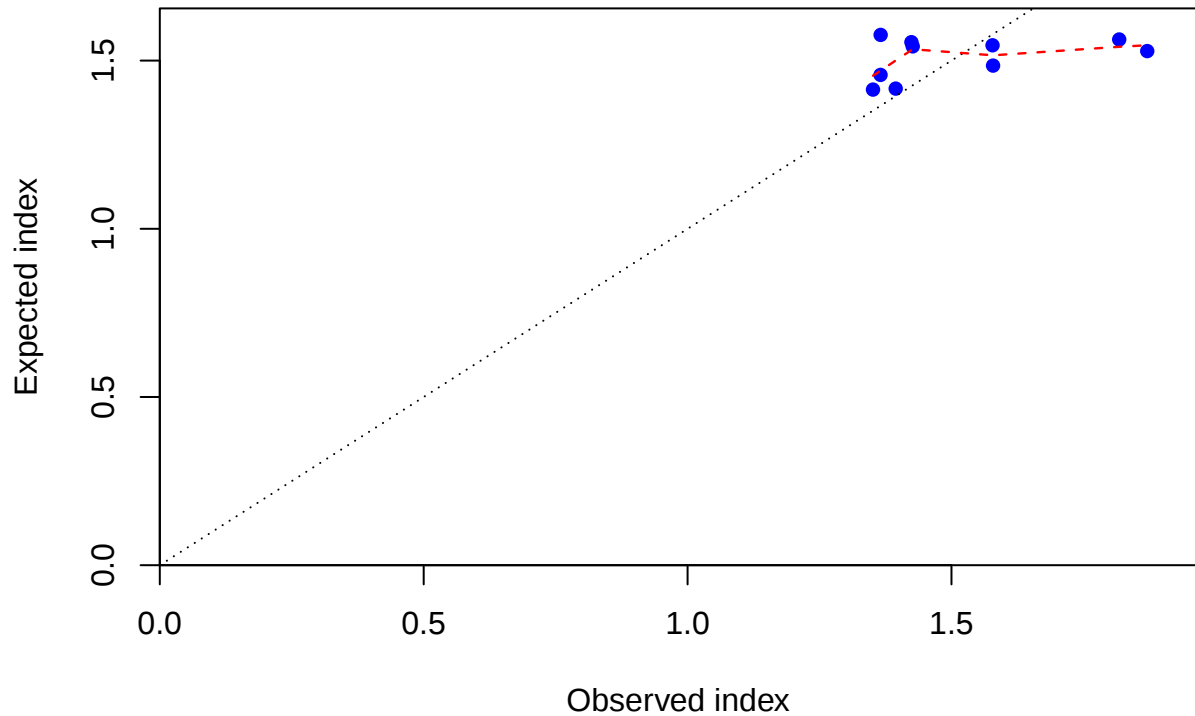
2016

2018

Year







Log index

1.0
0.8
0.6
0.4
0.2
0.0

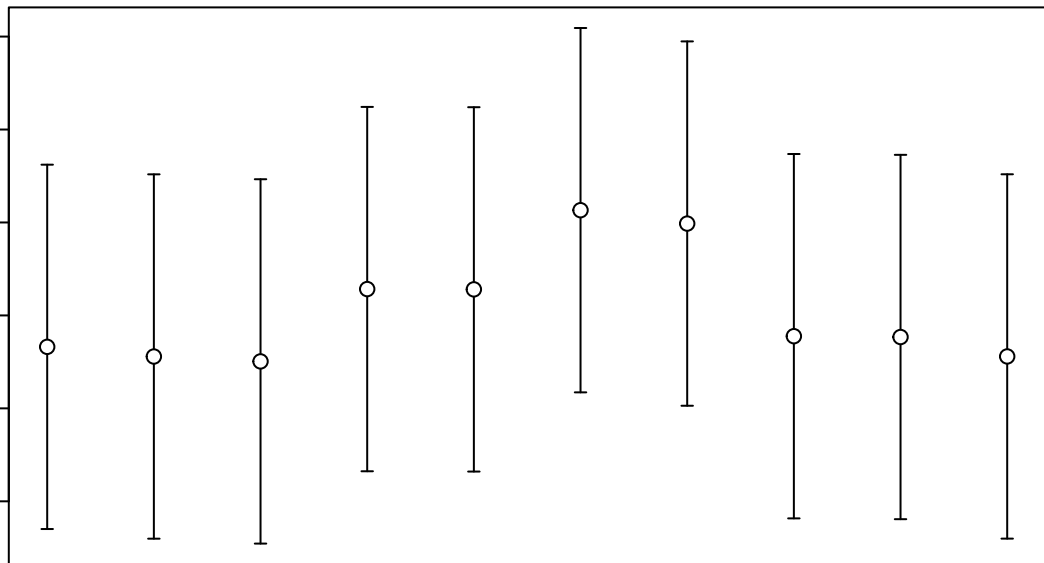
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2014

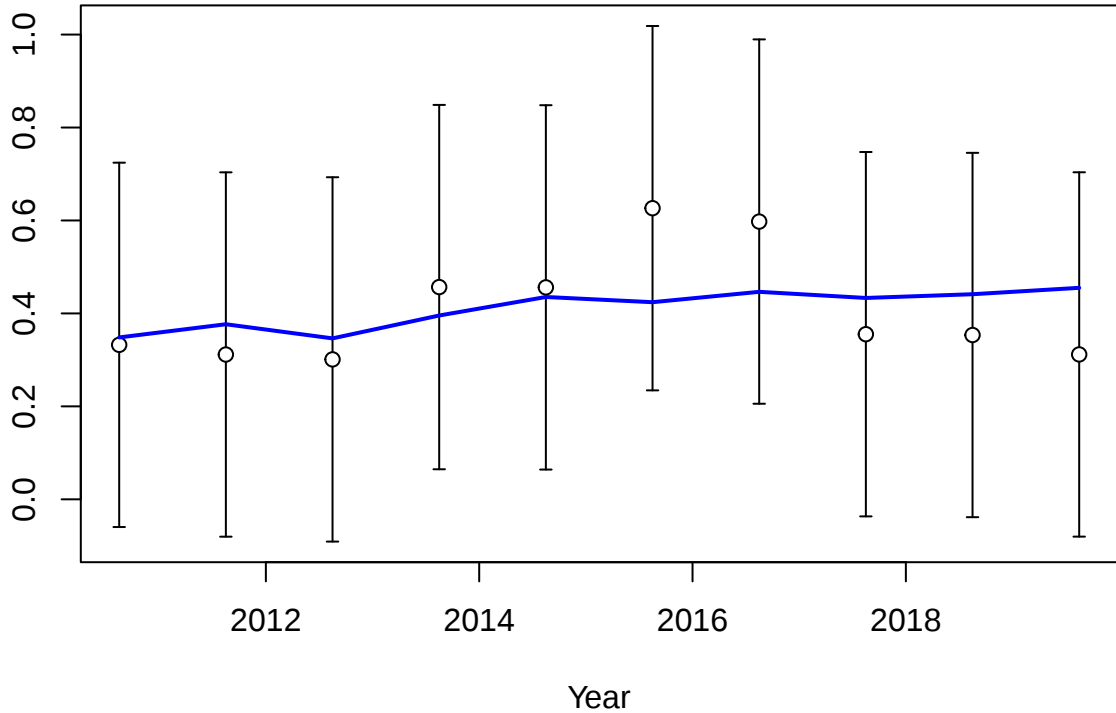
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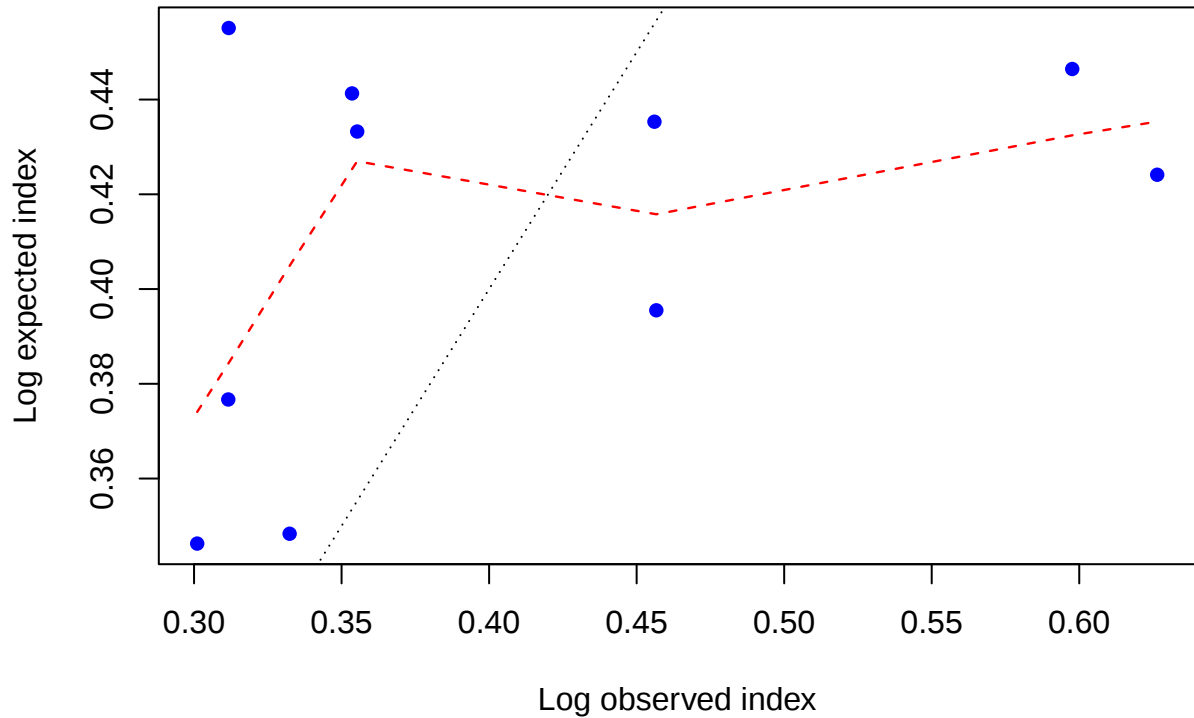
2018

Year

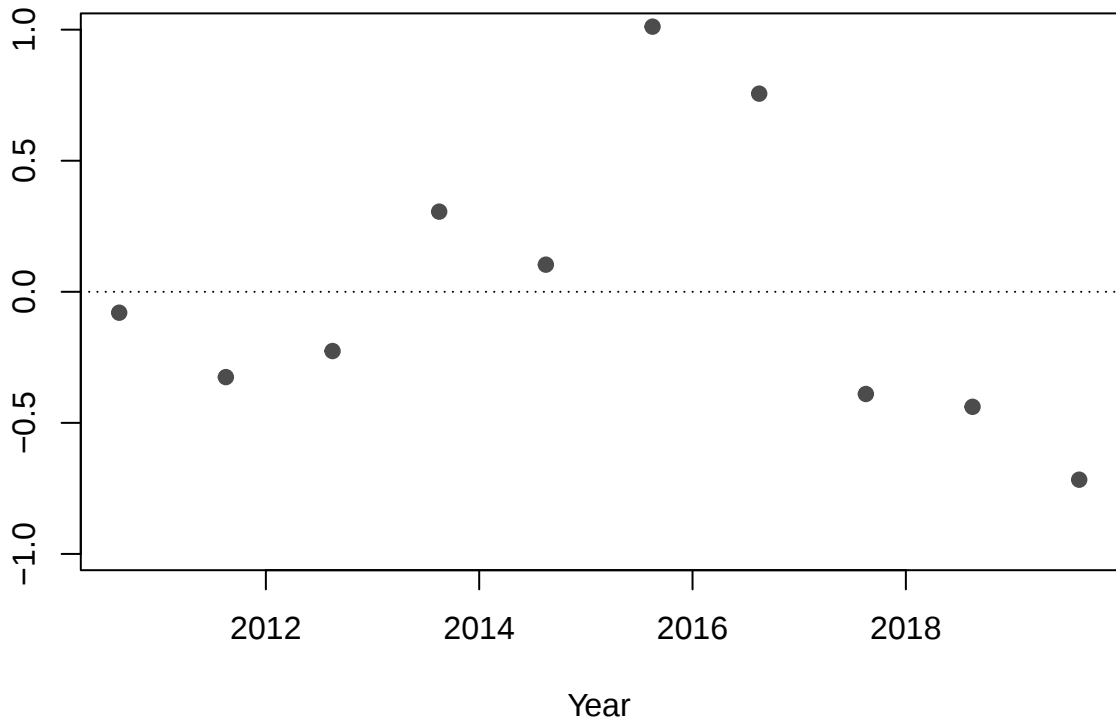


Log index

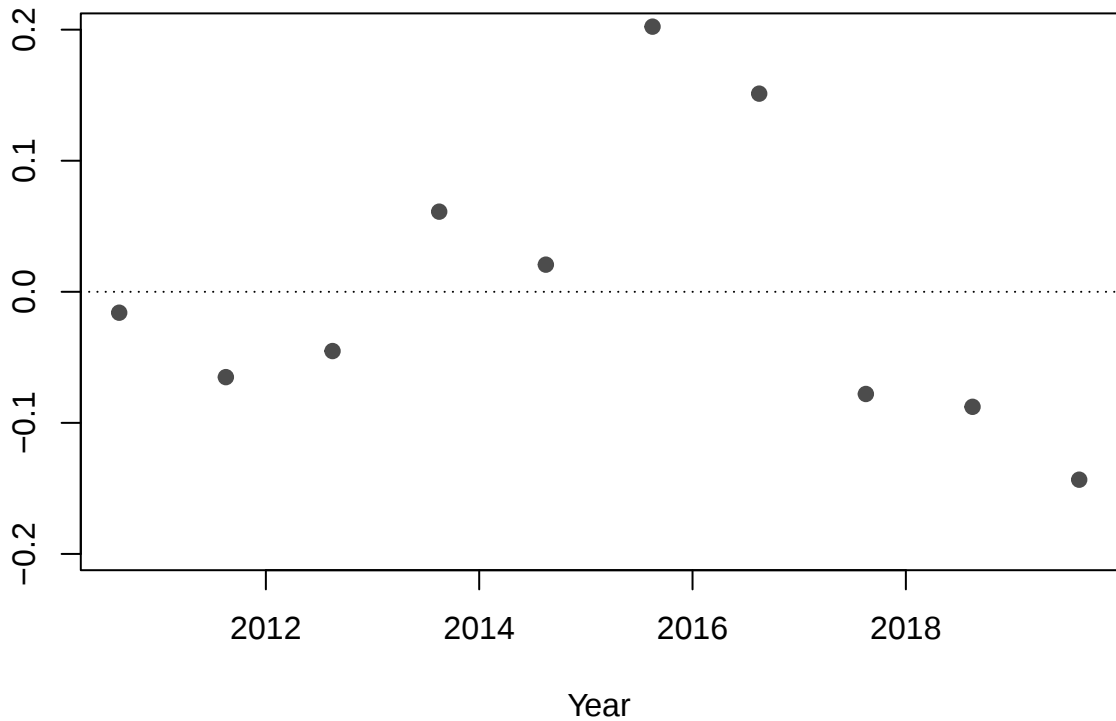




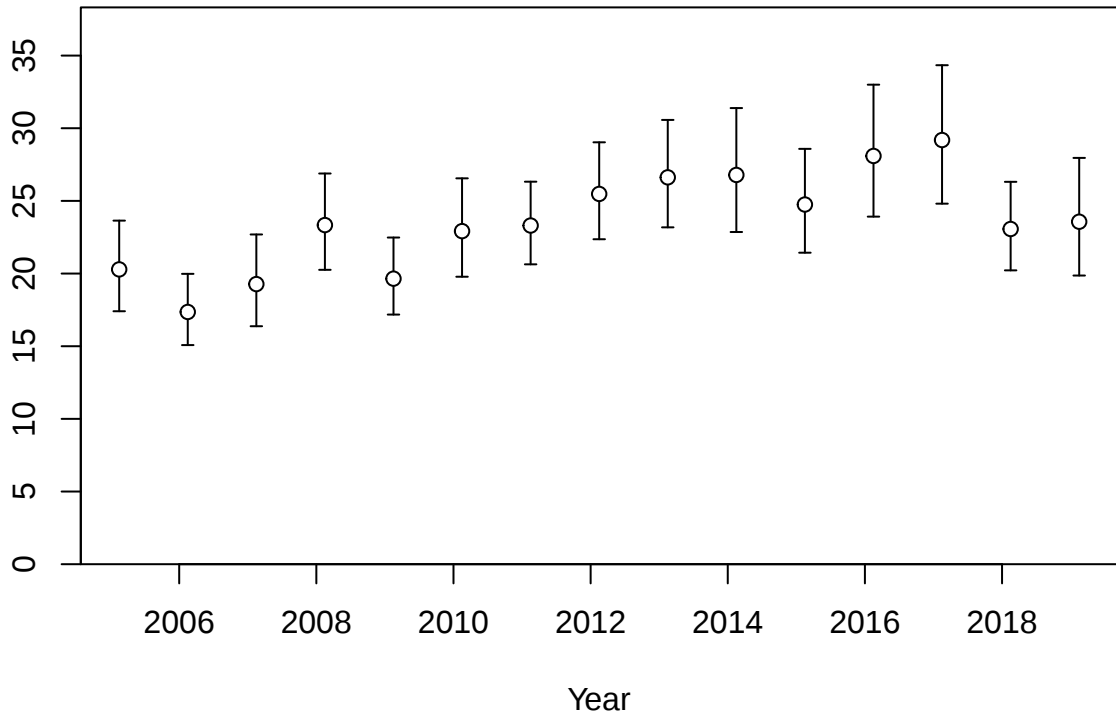
Residual



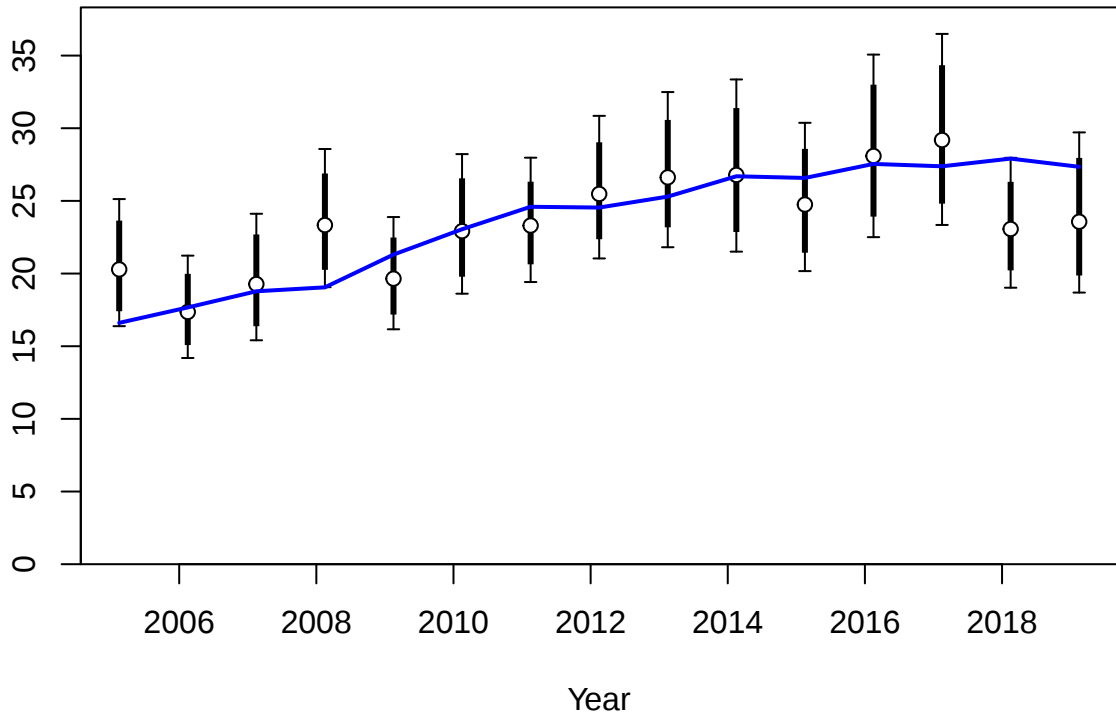
Deviation

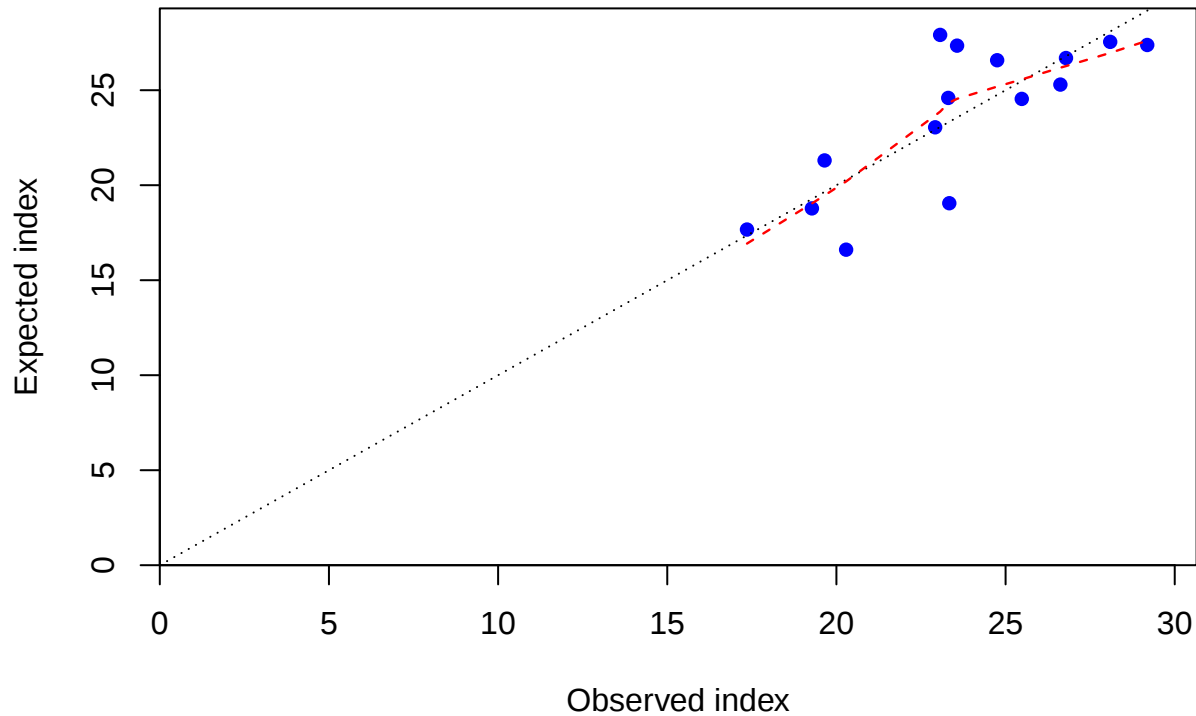


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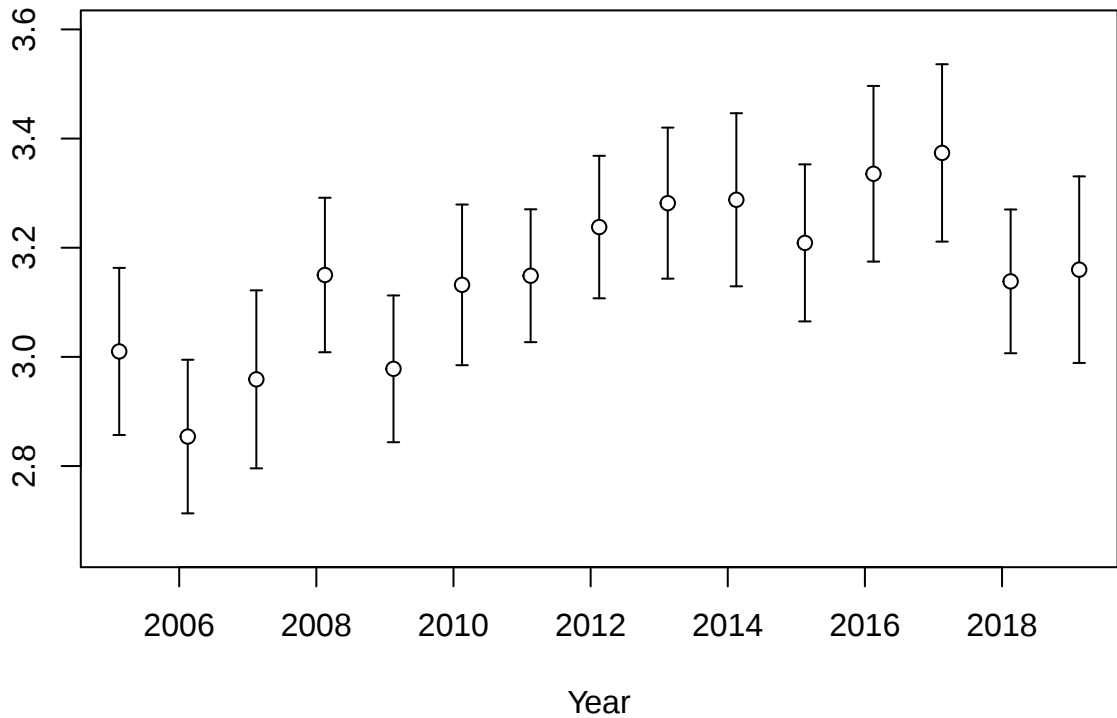


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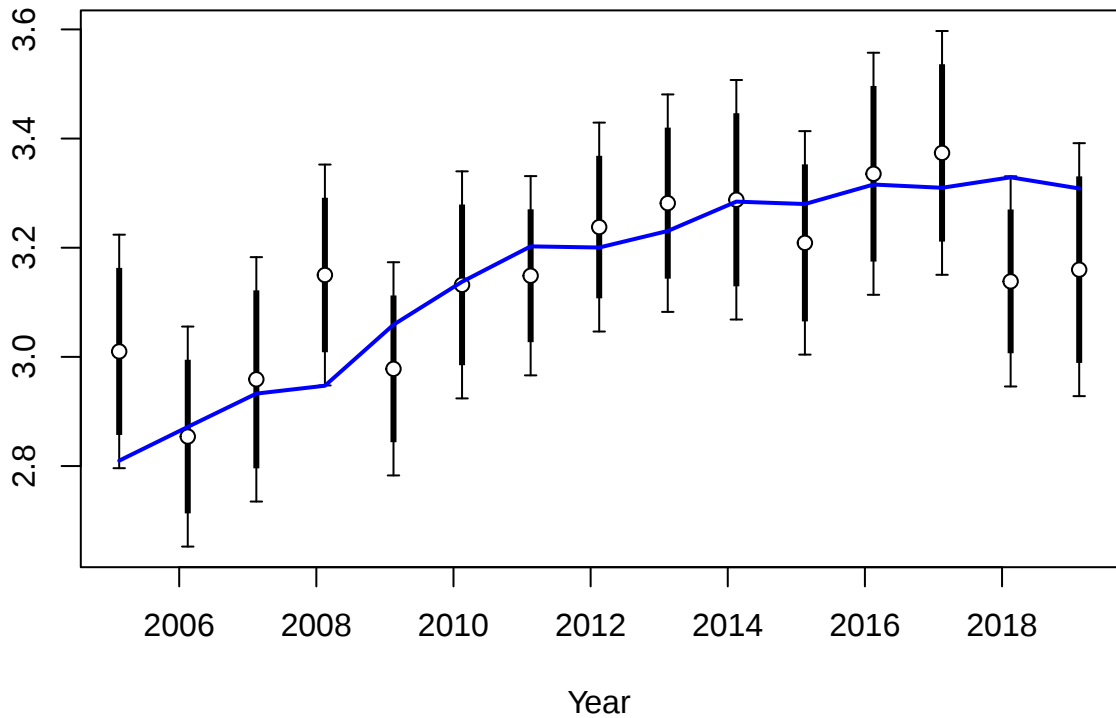


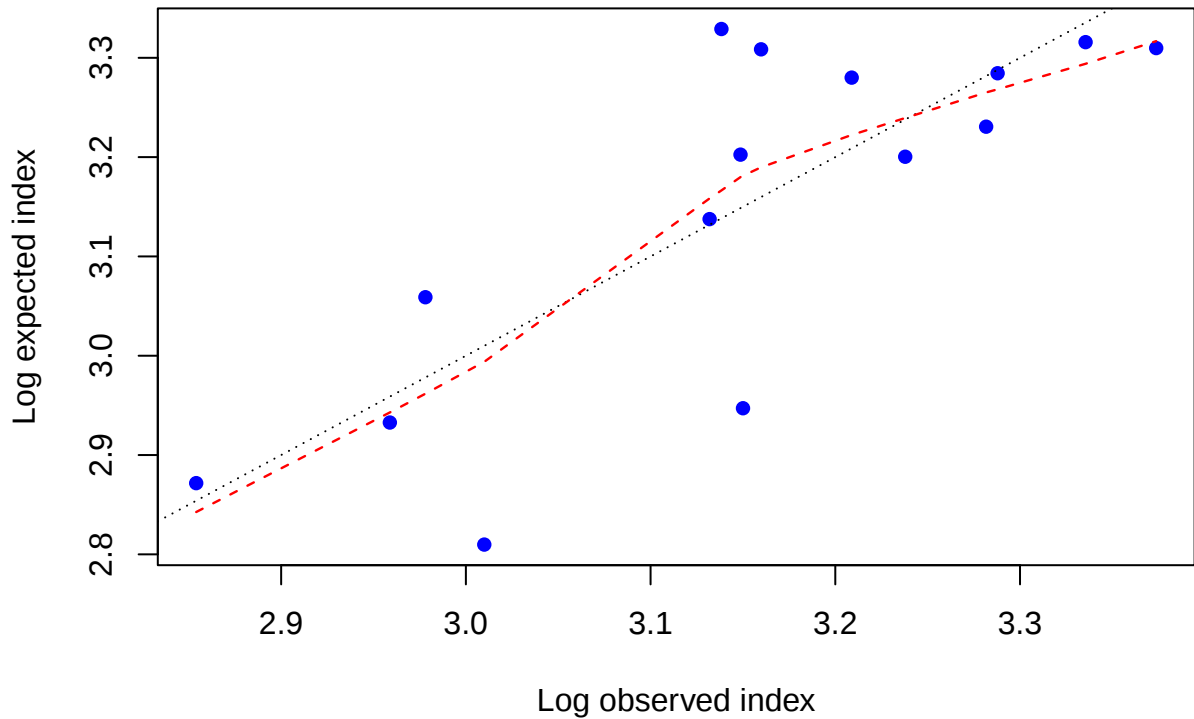


Log index

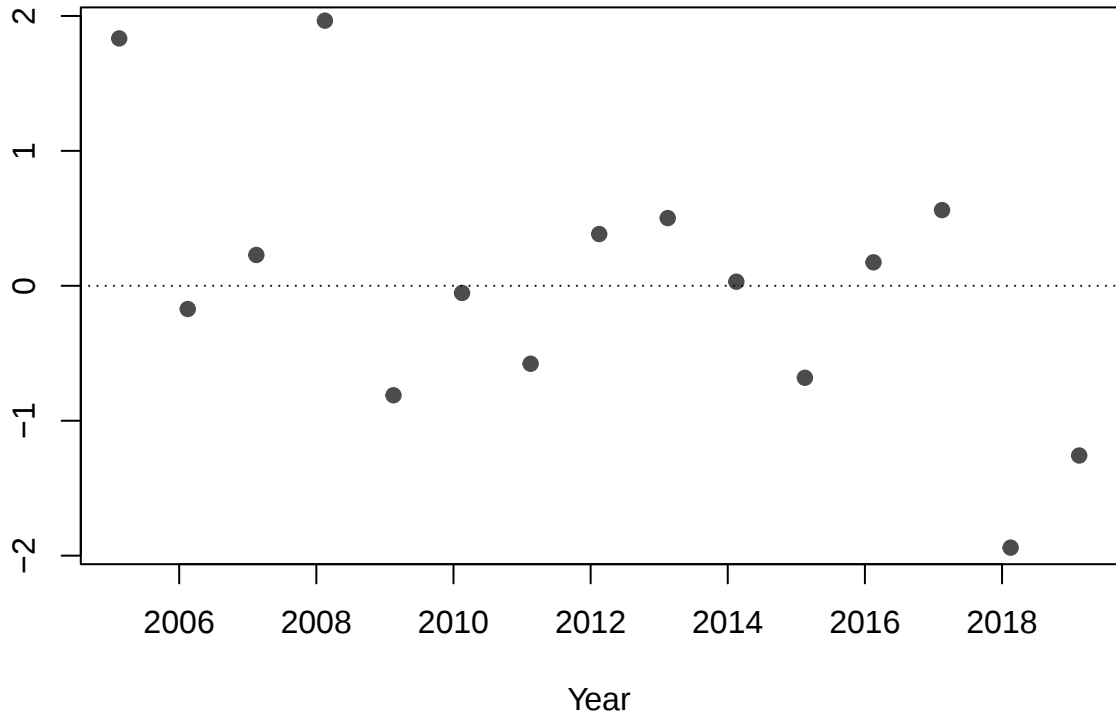


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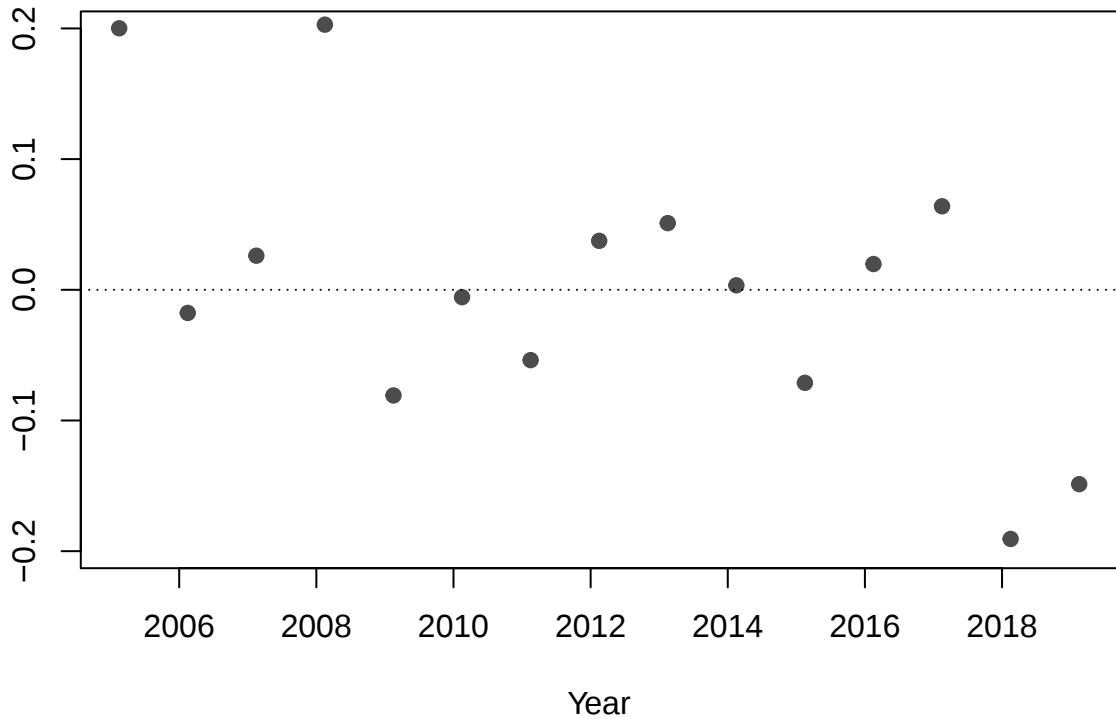




Residual



Deviation



Index

30

20

10

0

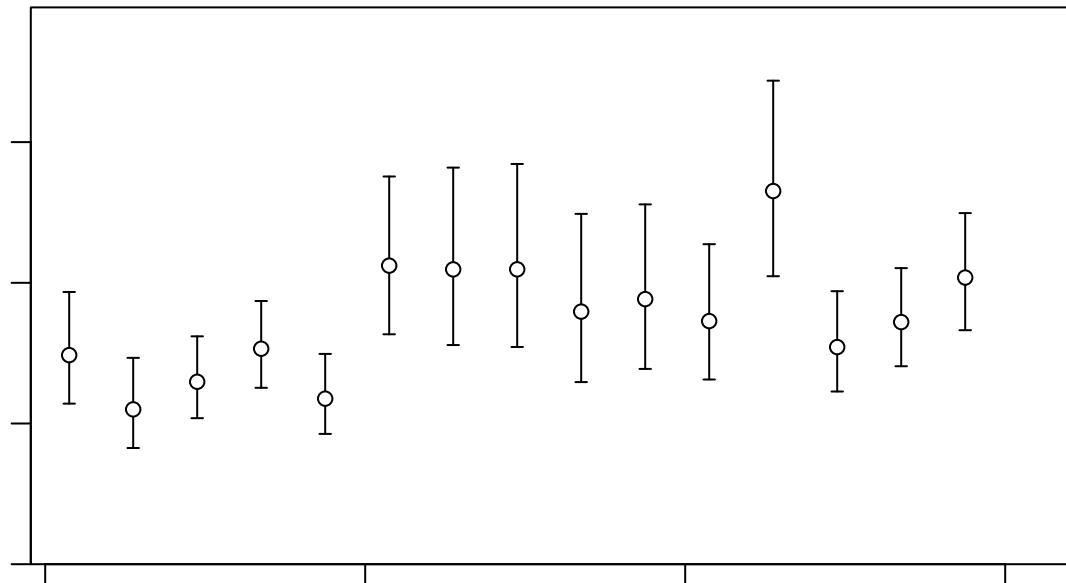
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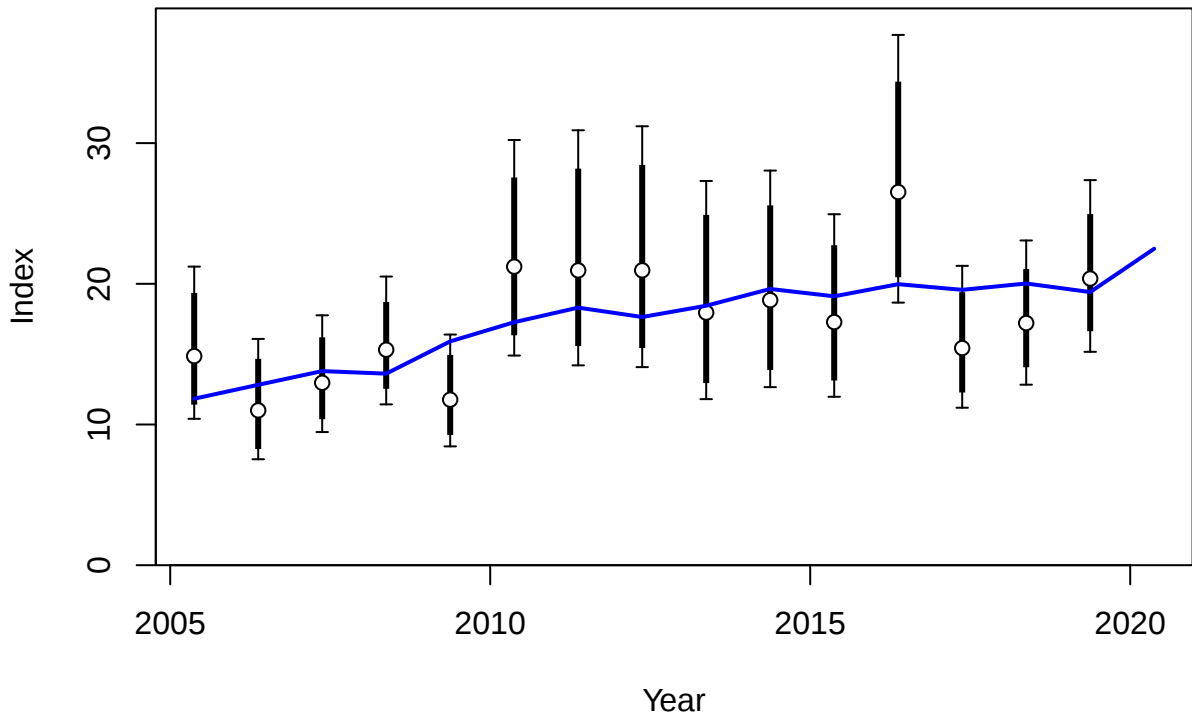
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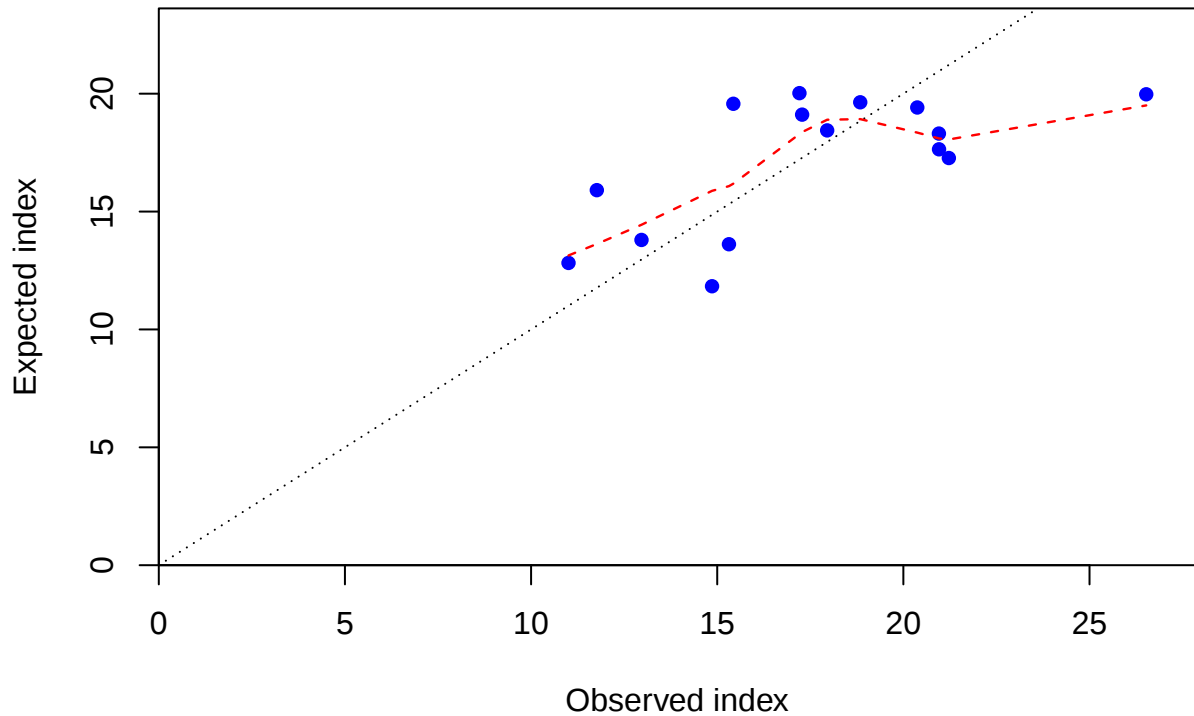
2015

2020

Year







Log index

3.5
3.0
2.5
2.0

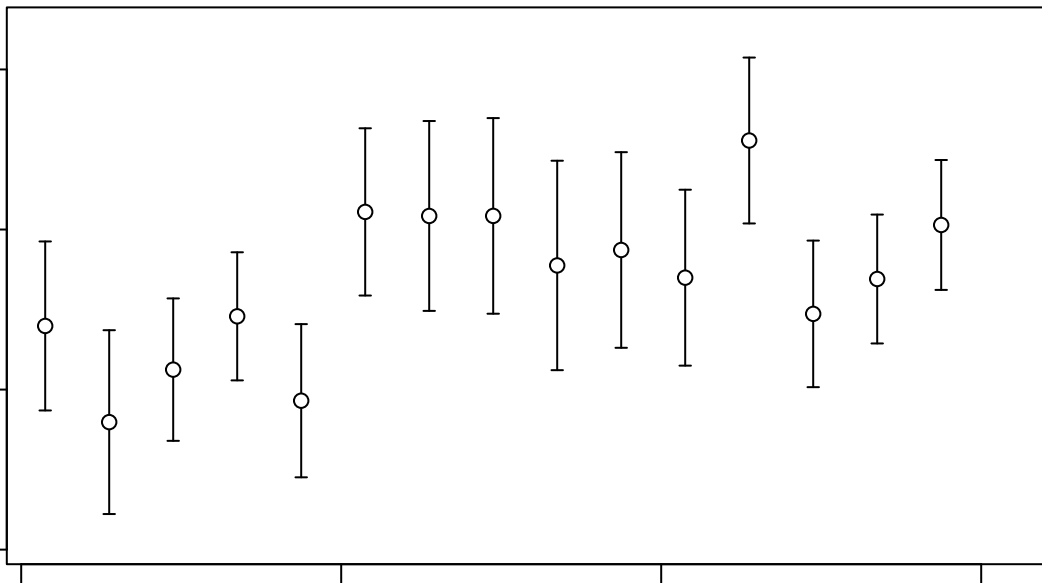
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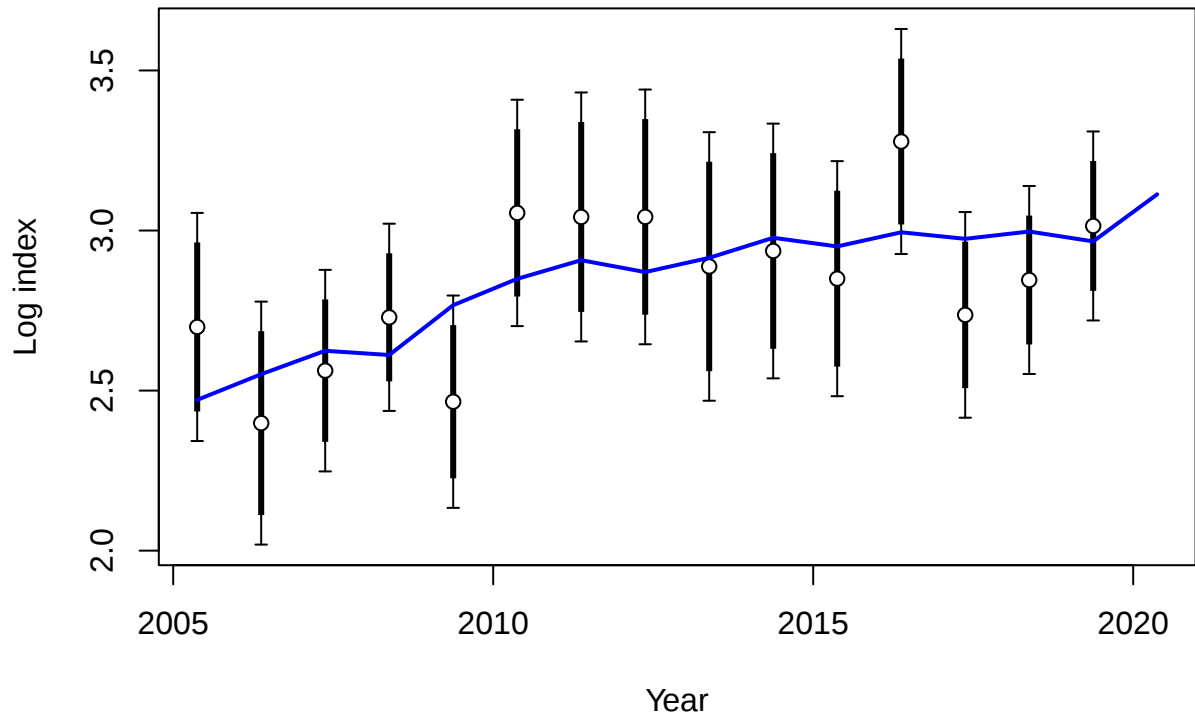
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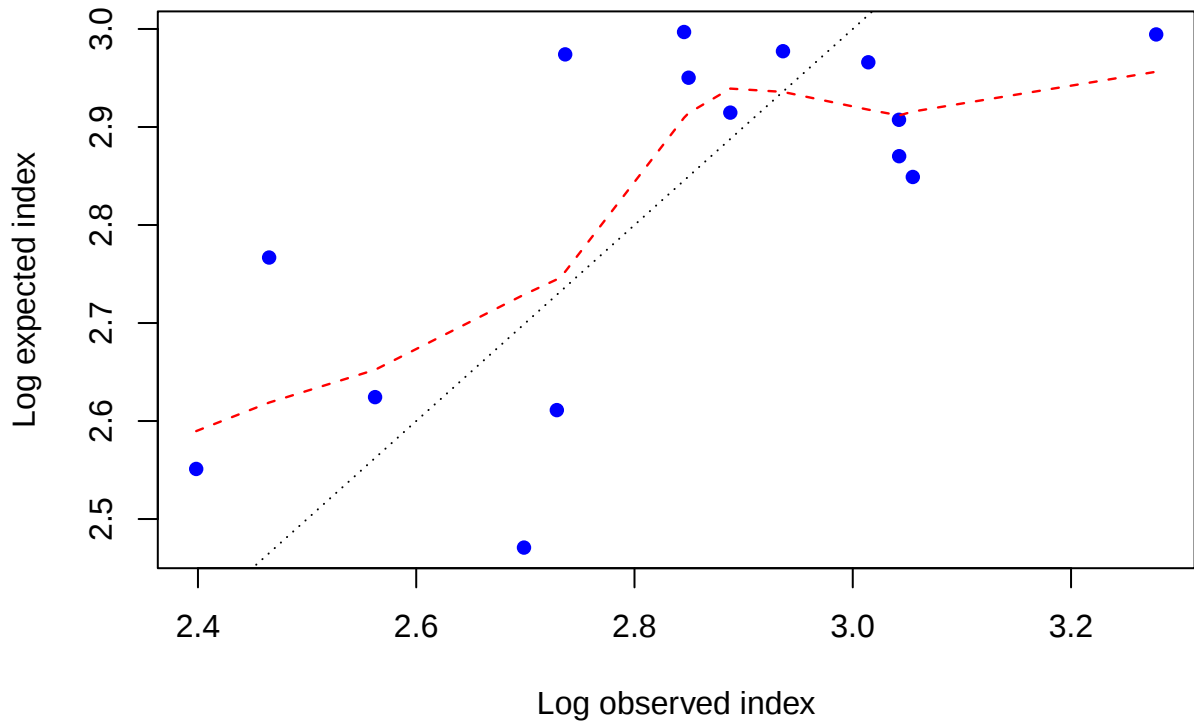
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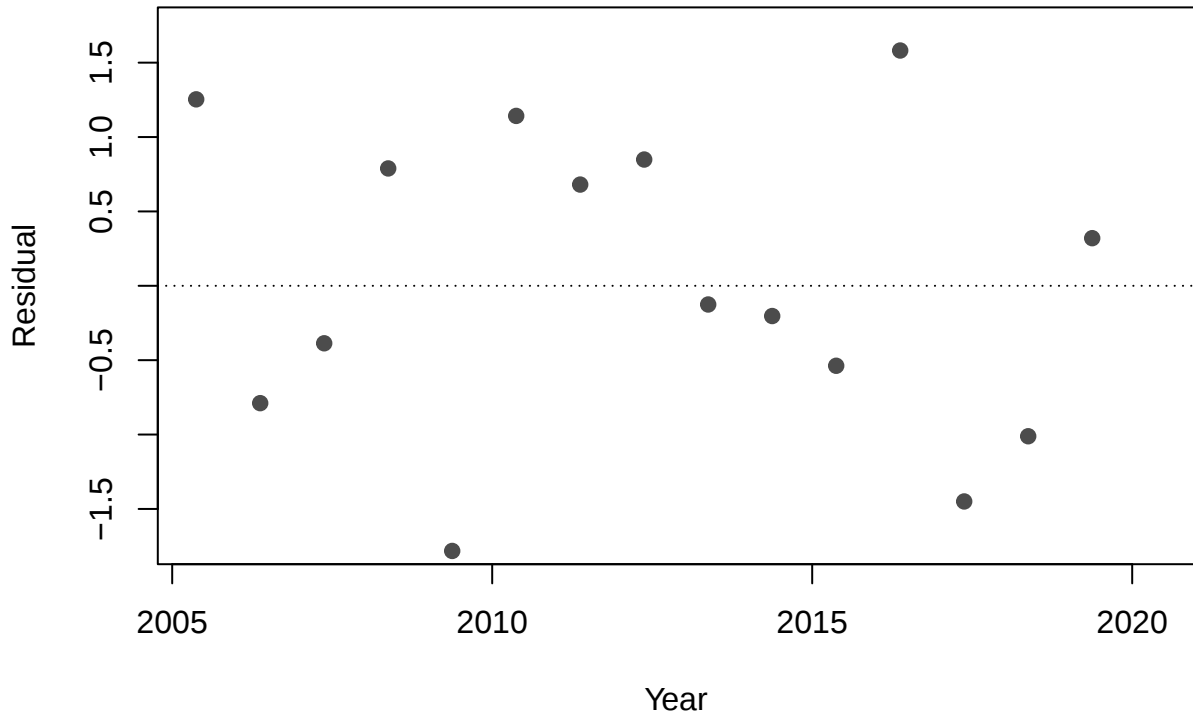
2020

Year

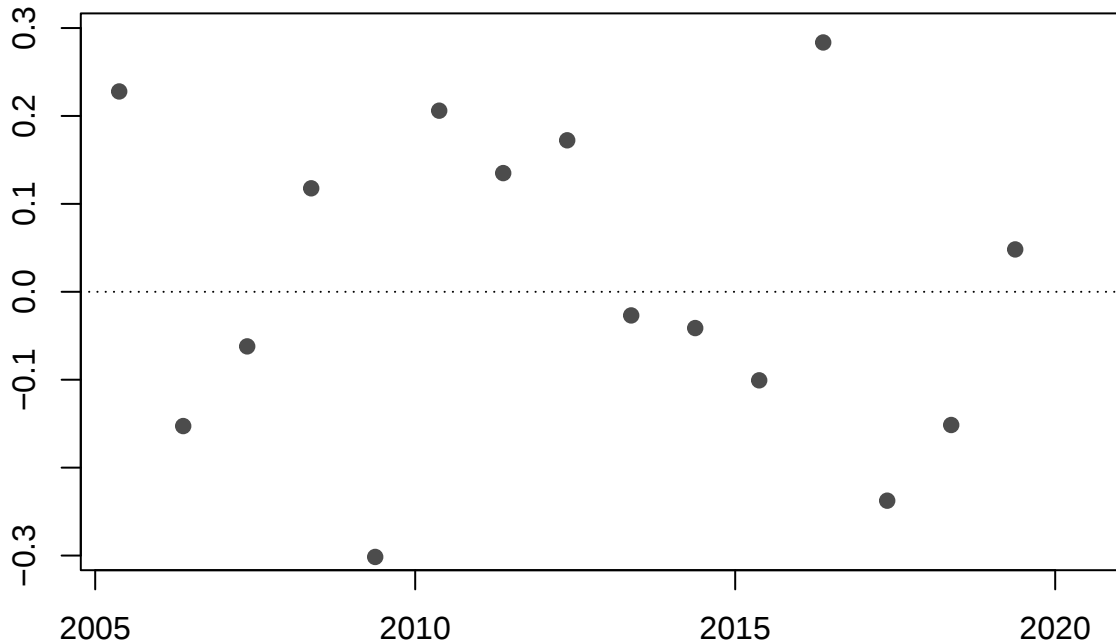






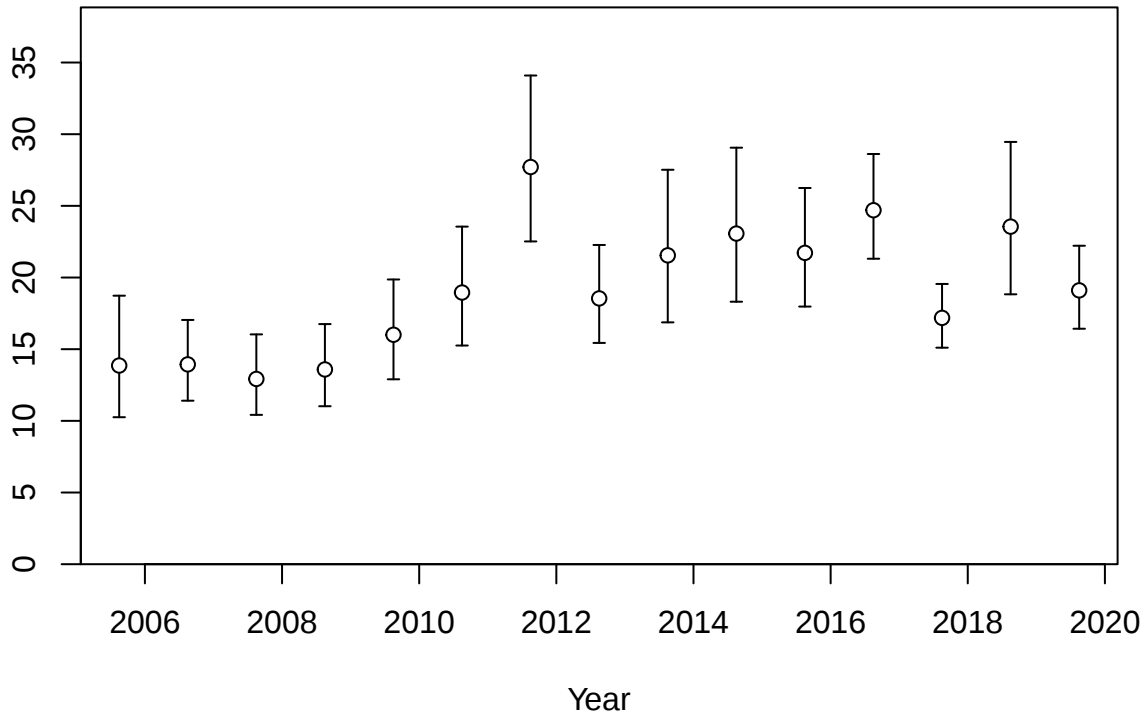


Deviation

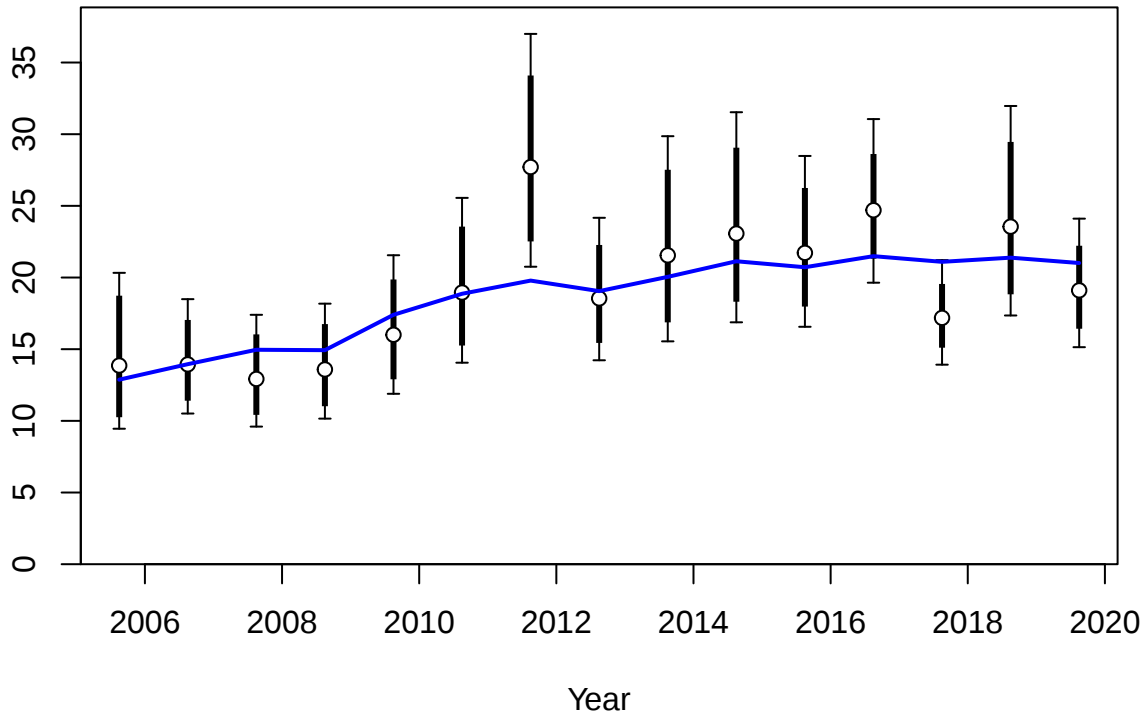


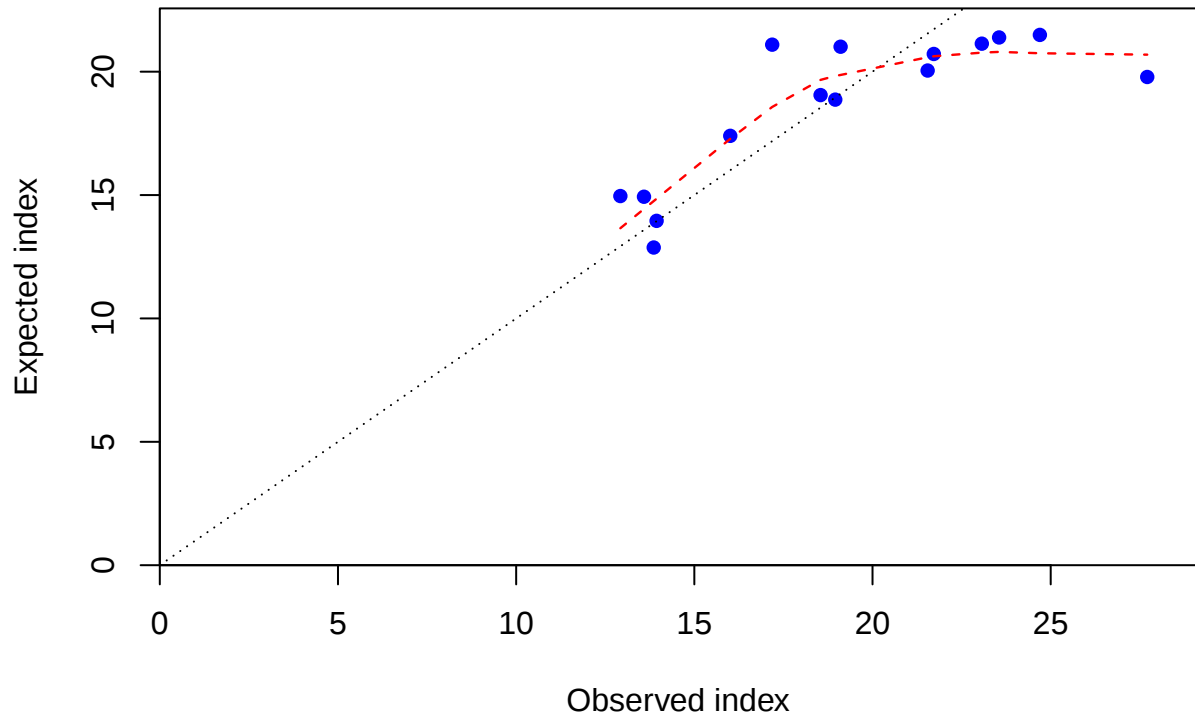
Year

Index

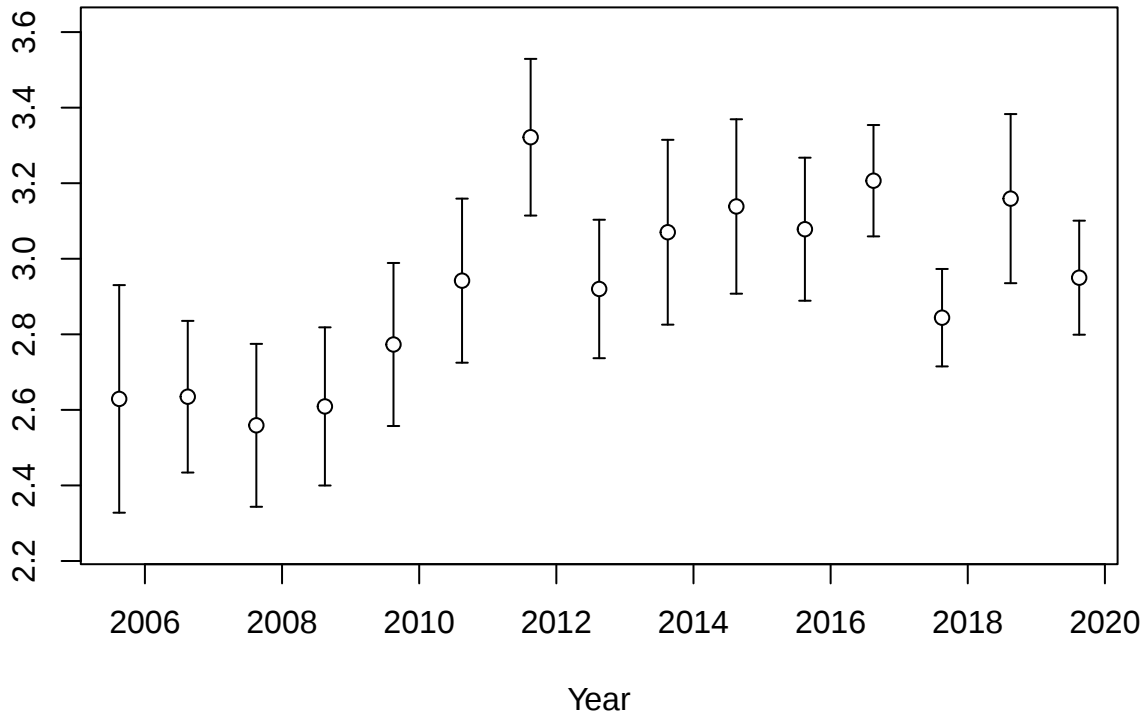


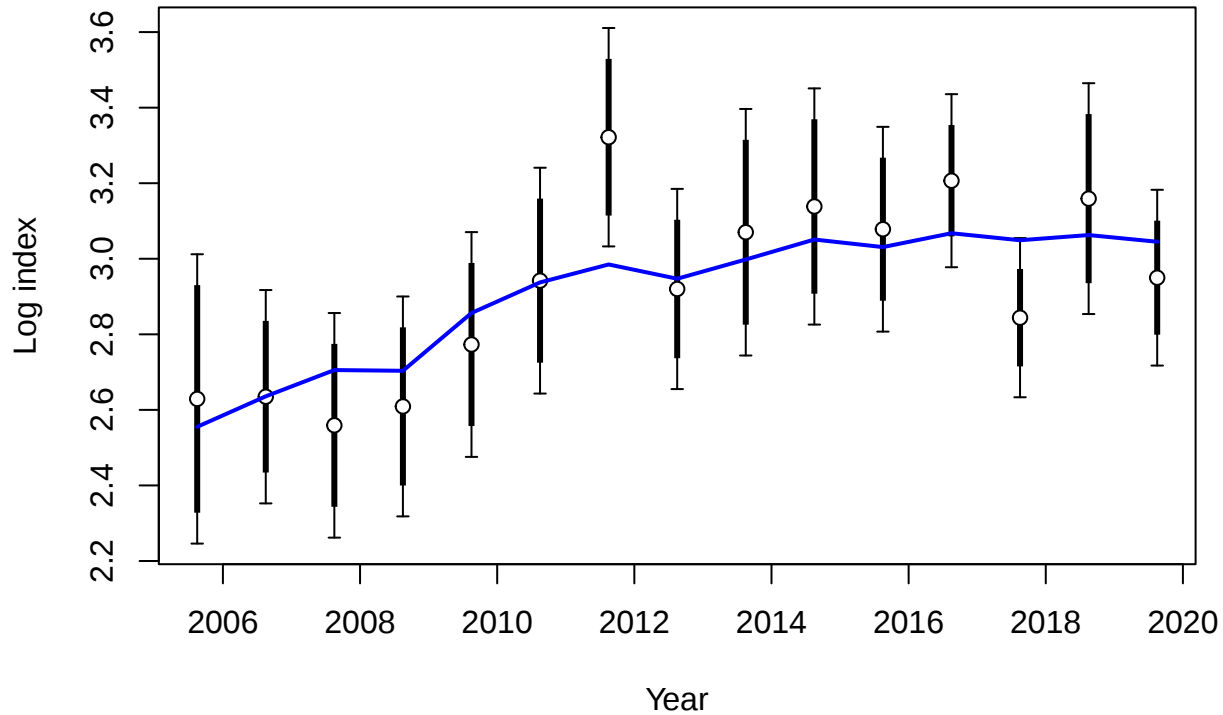
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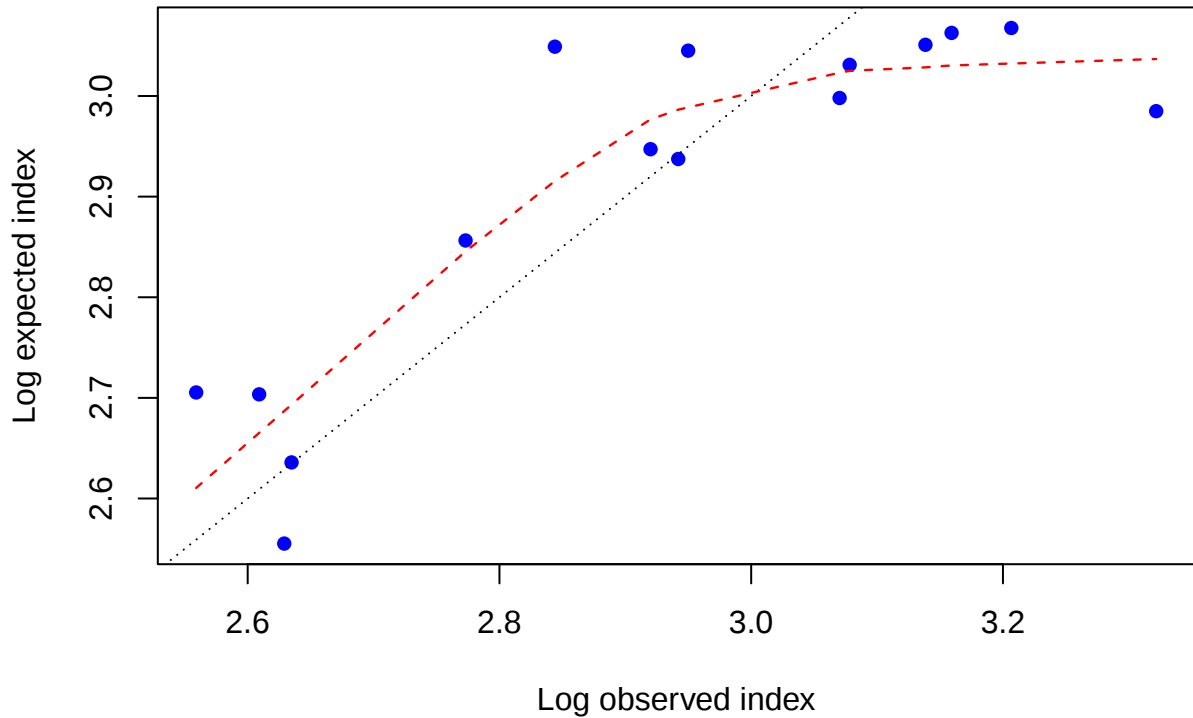


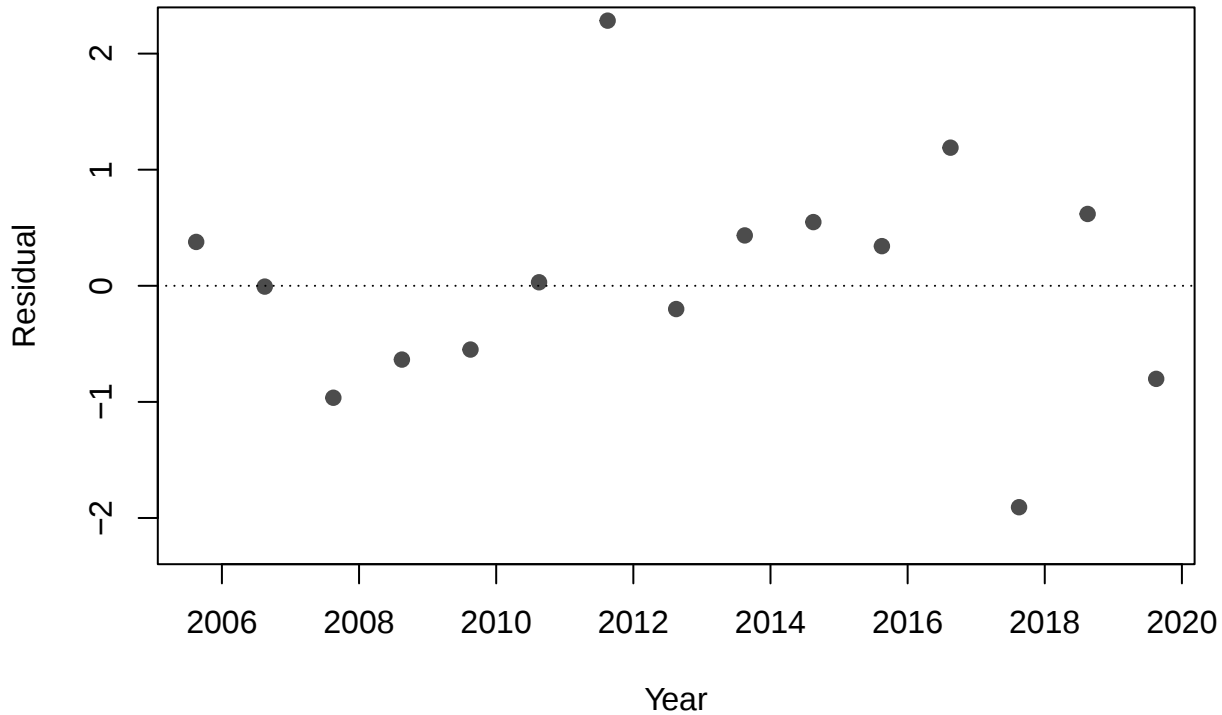


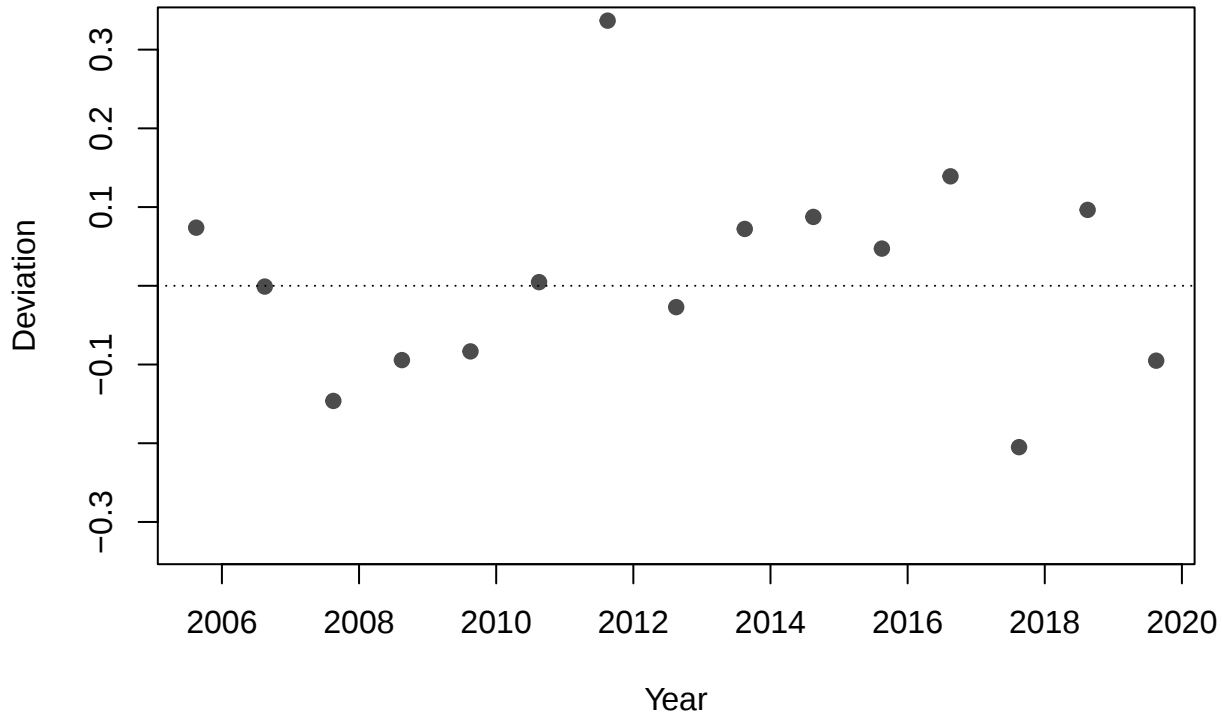
Log index

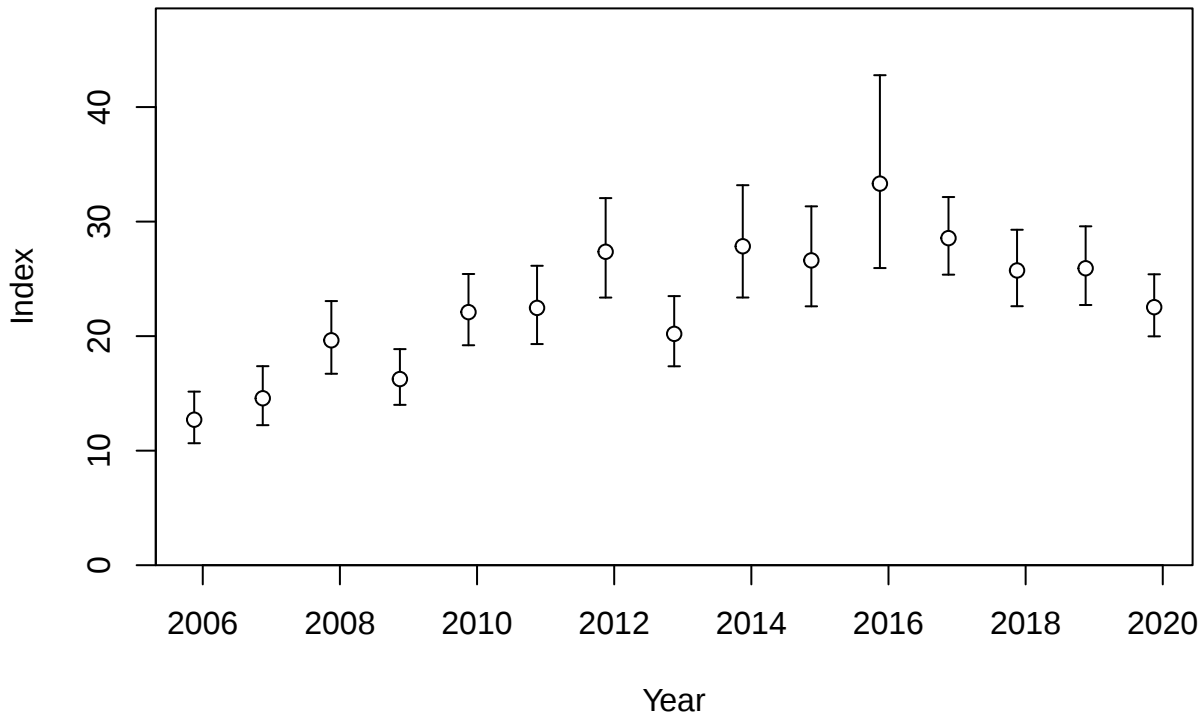




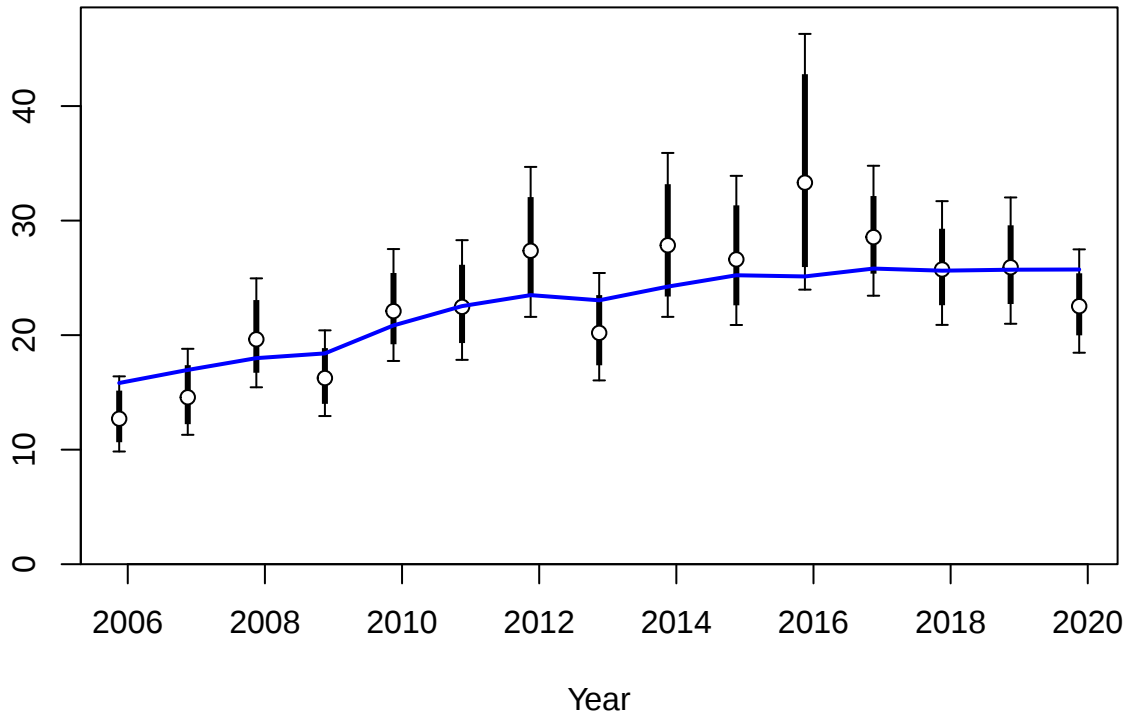


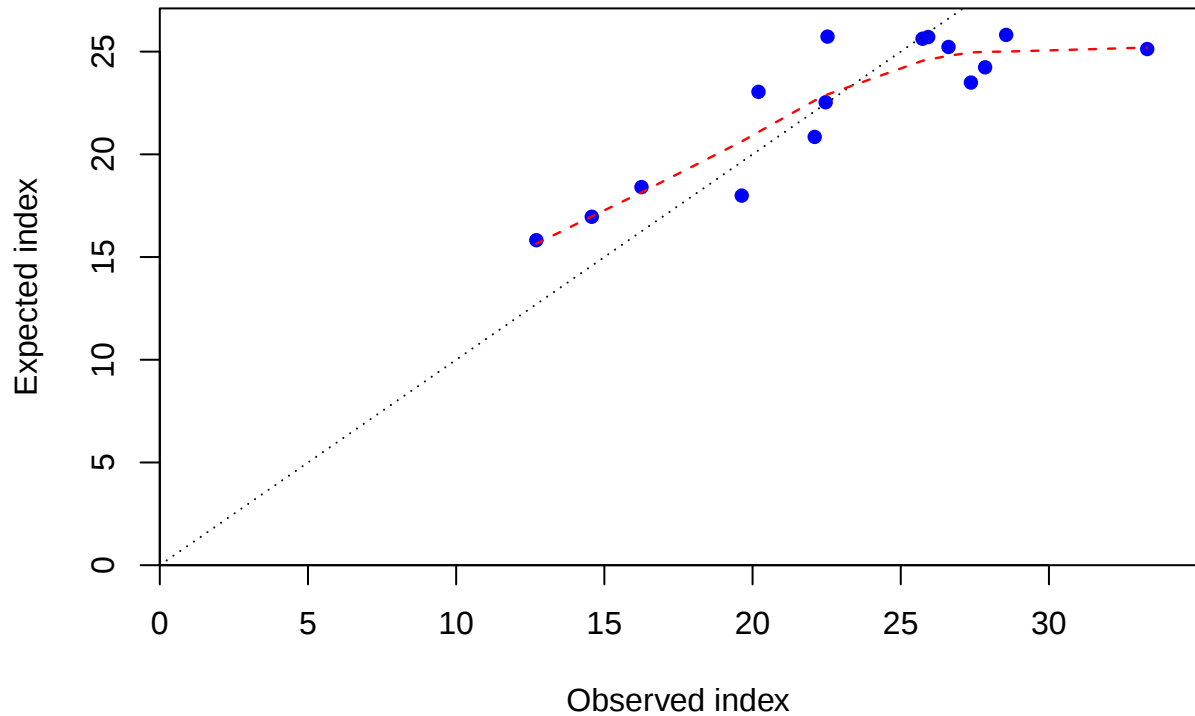






Index





Log index

2.5
3.0
3.5

2006

2008

2010

2012

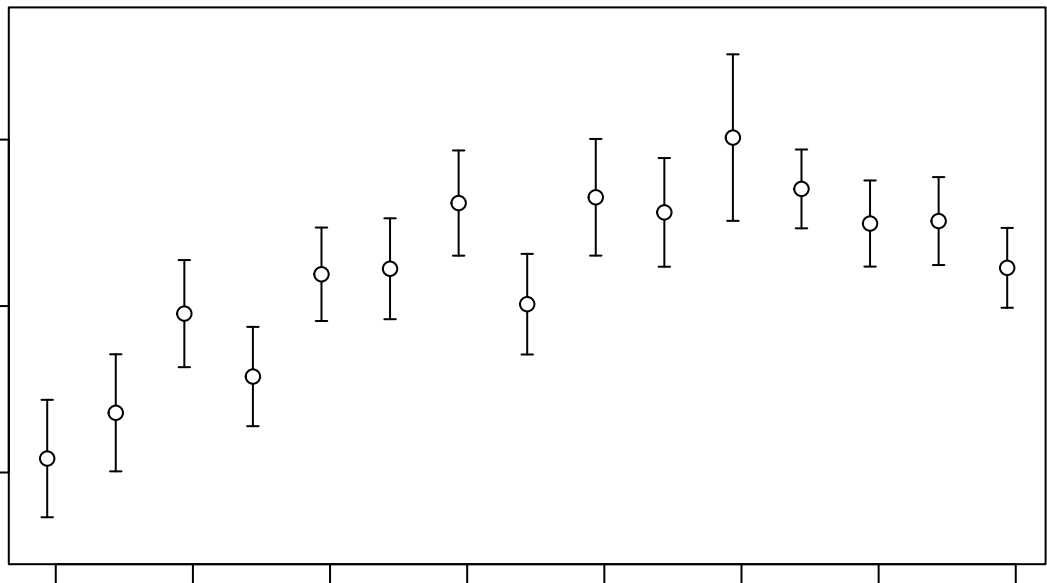
2014

2016

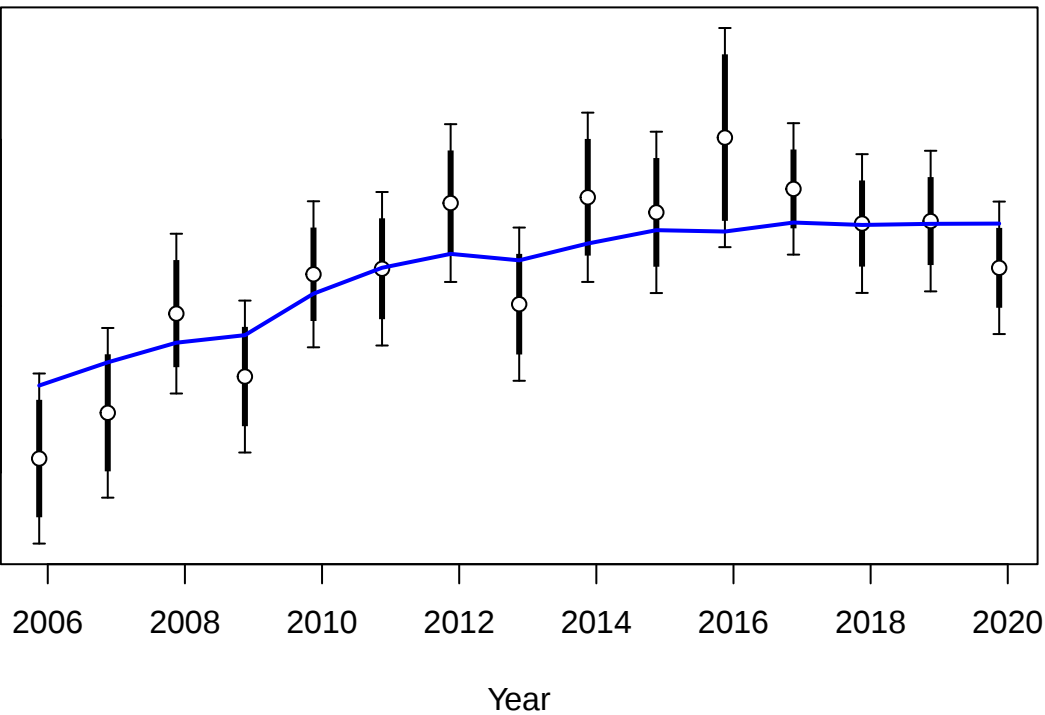
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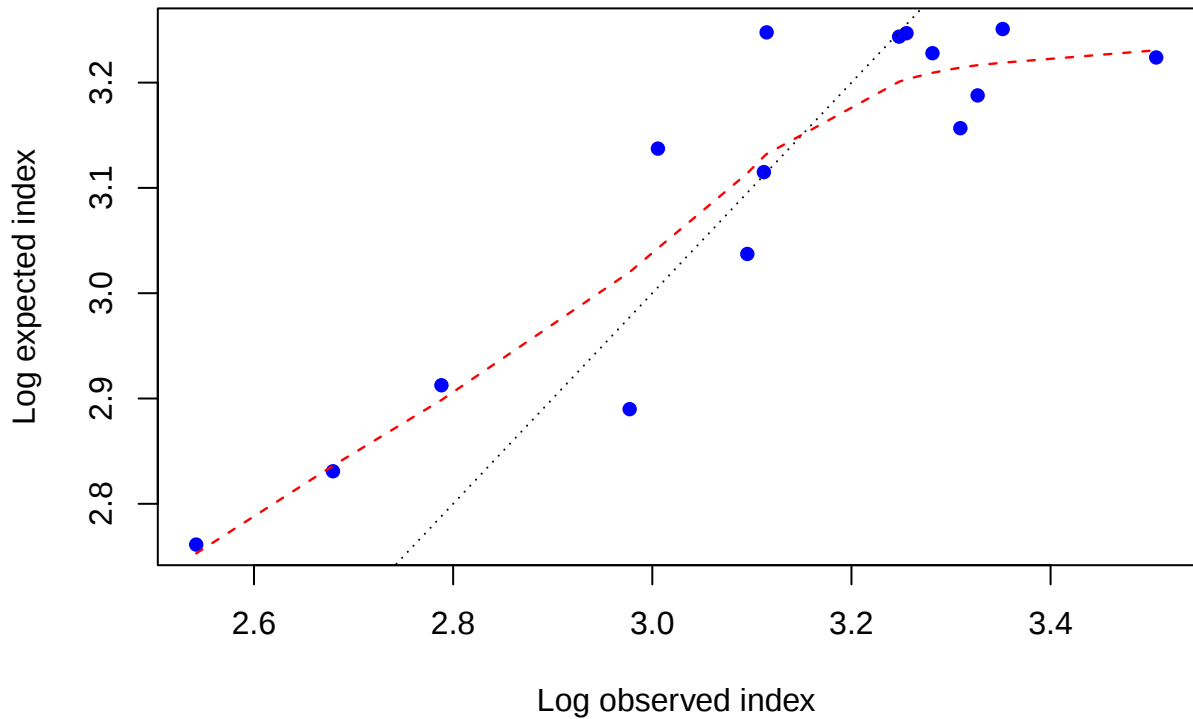
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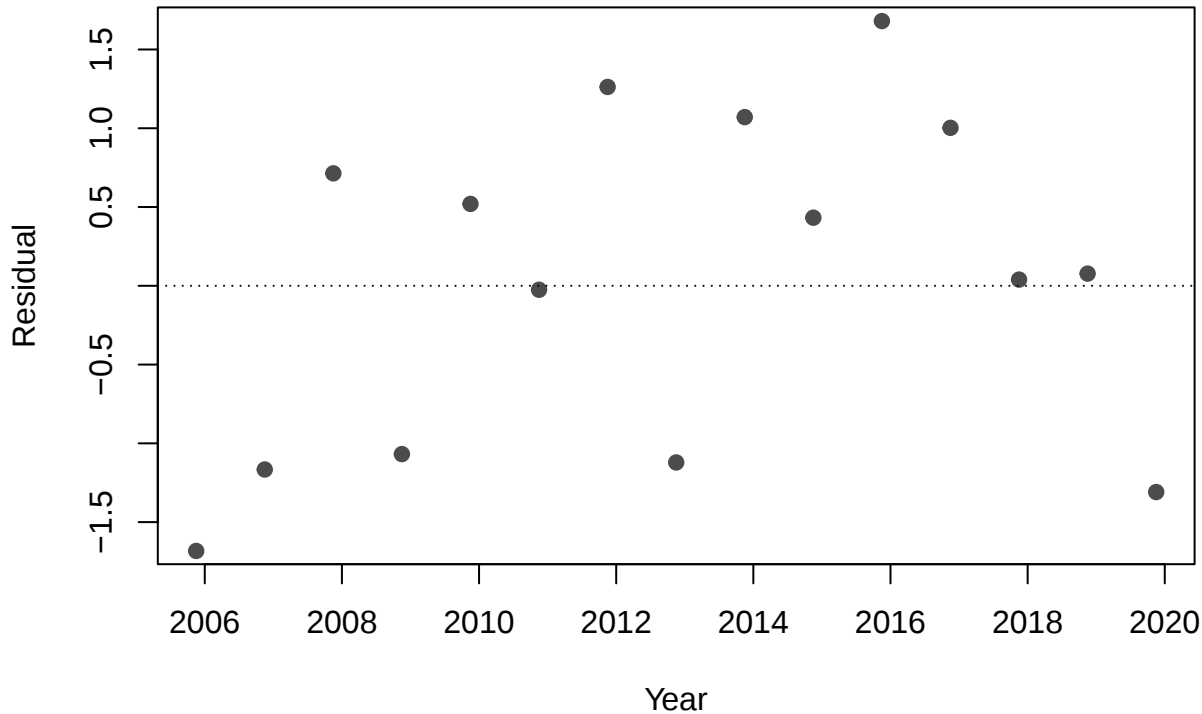
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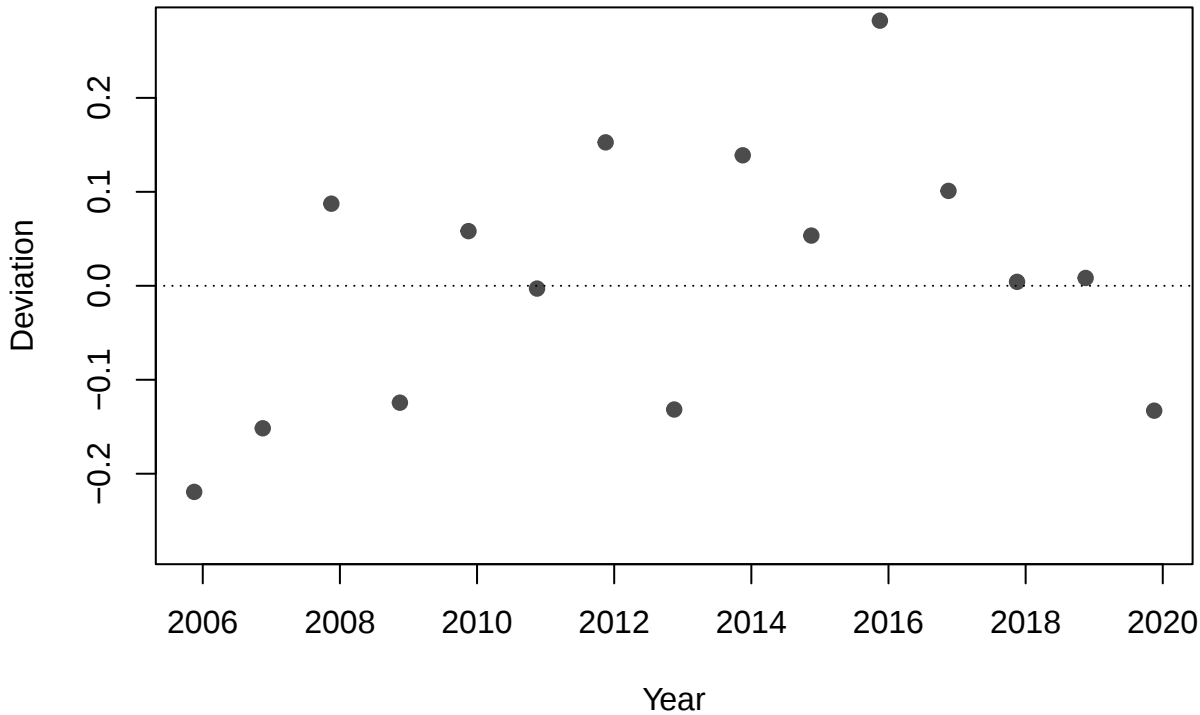


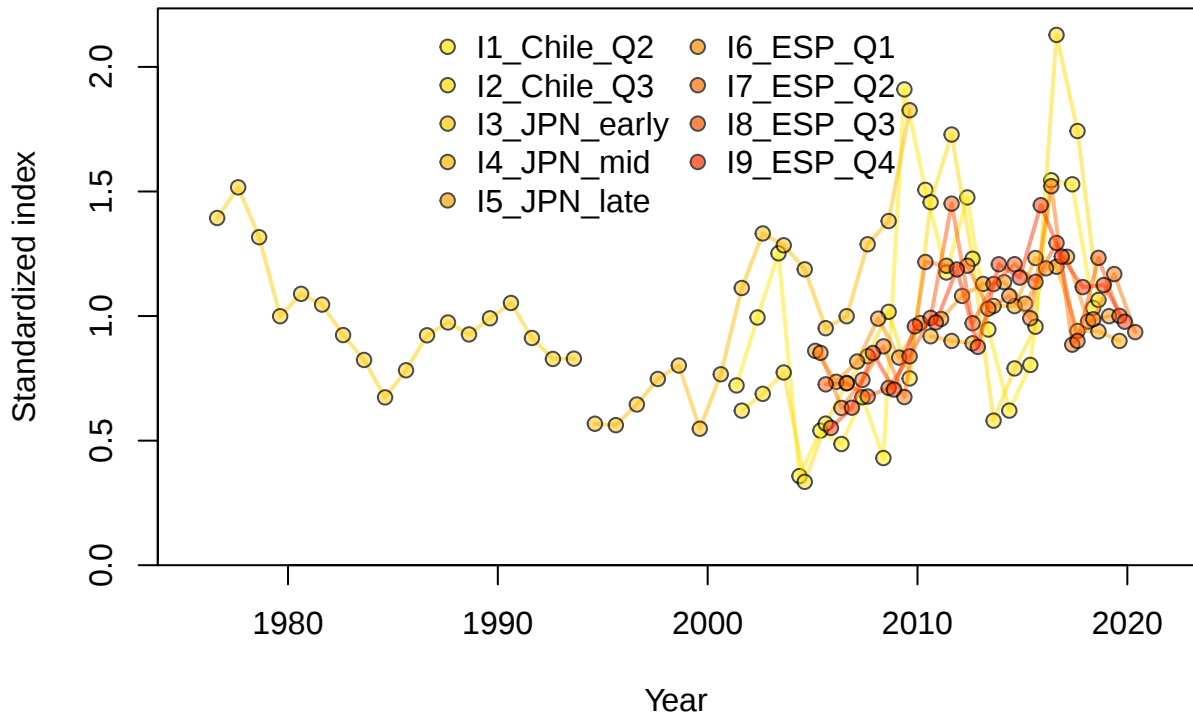
Log index



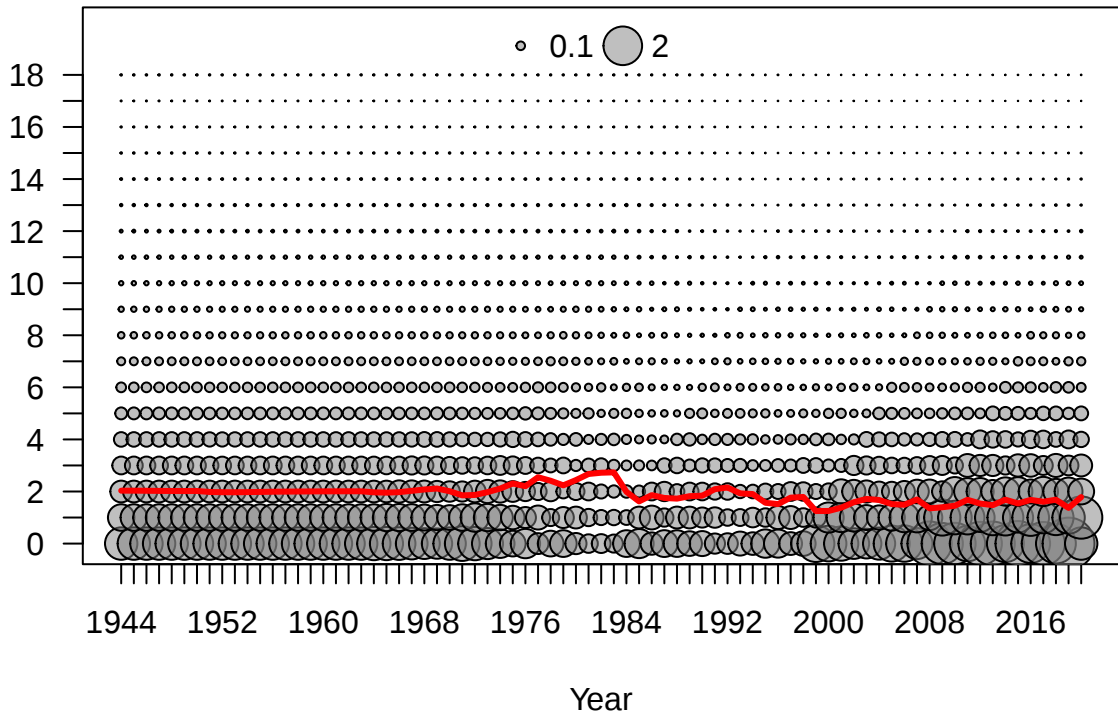




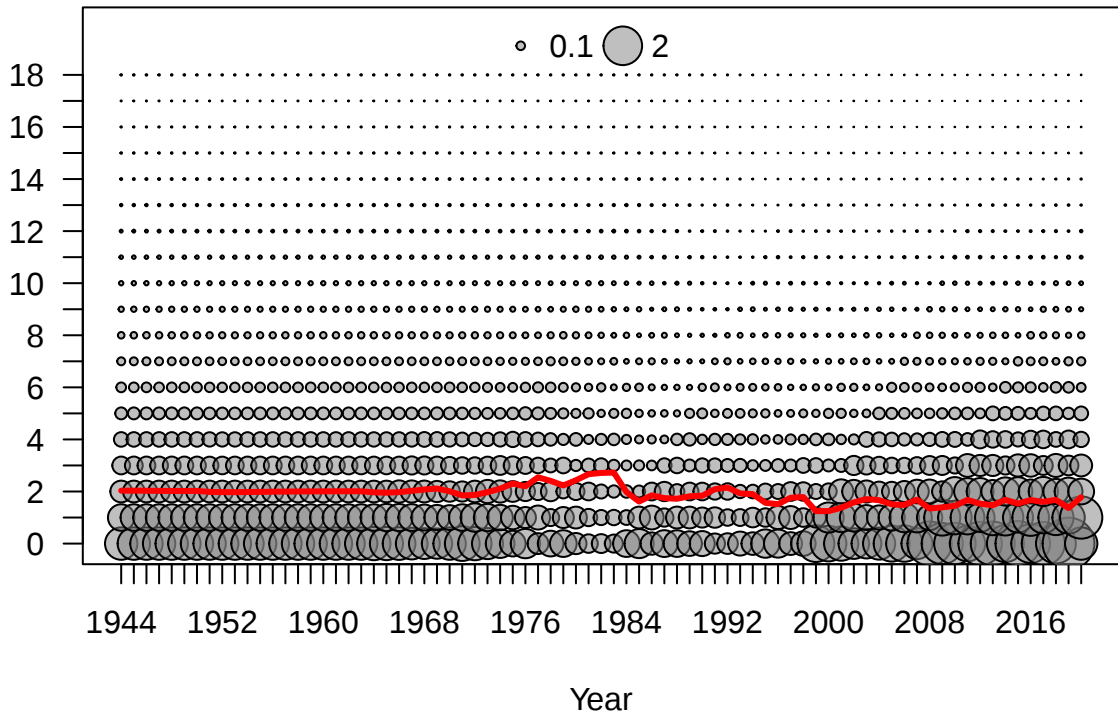


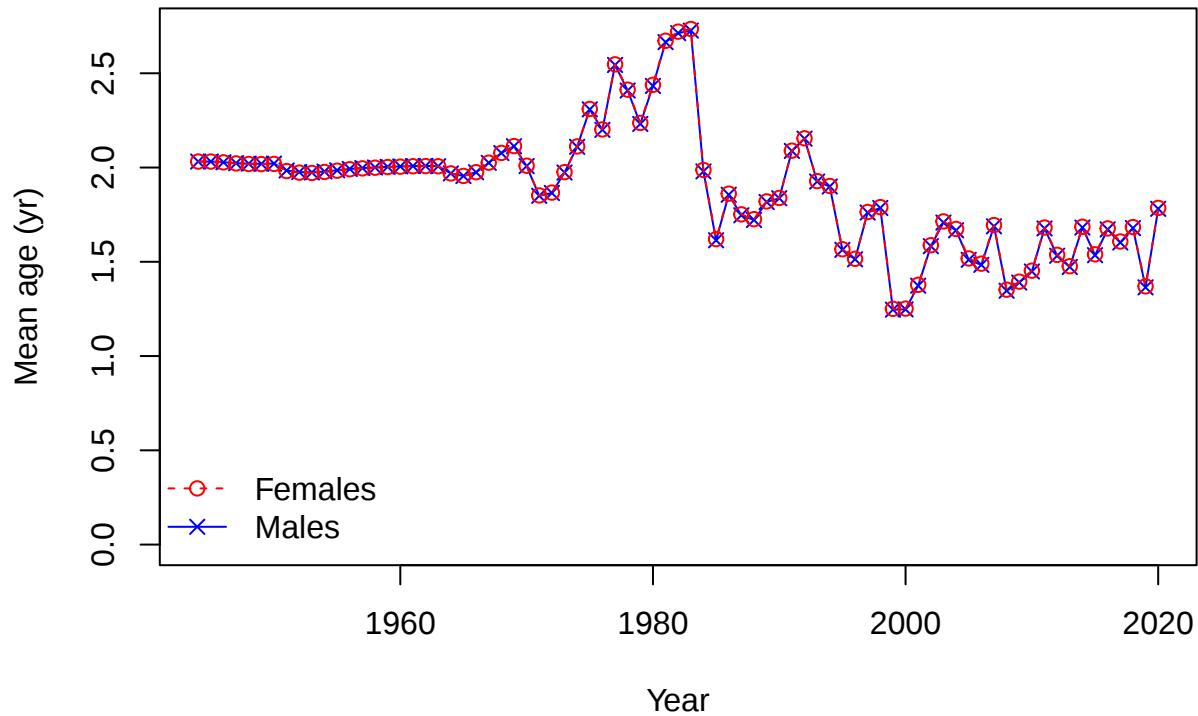


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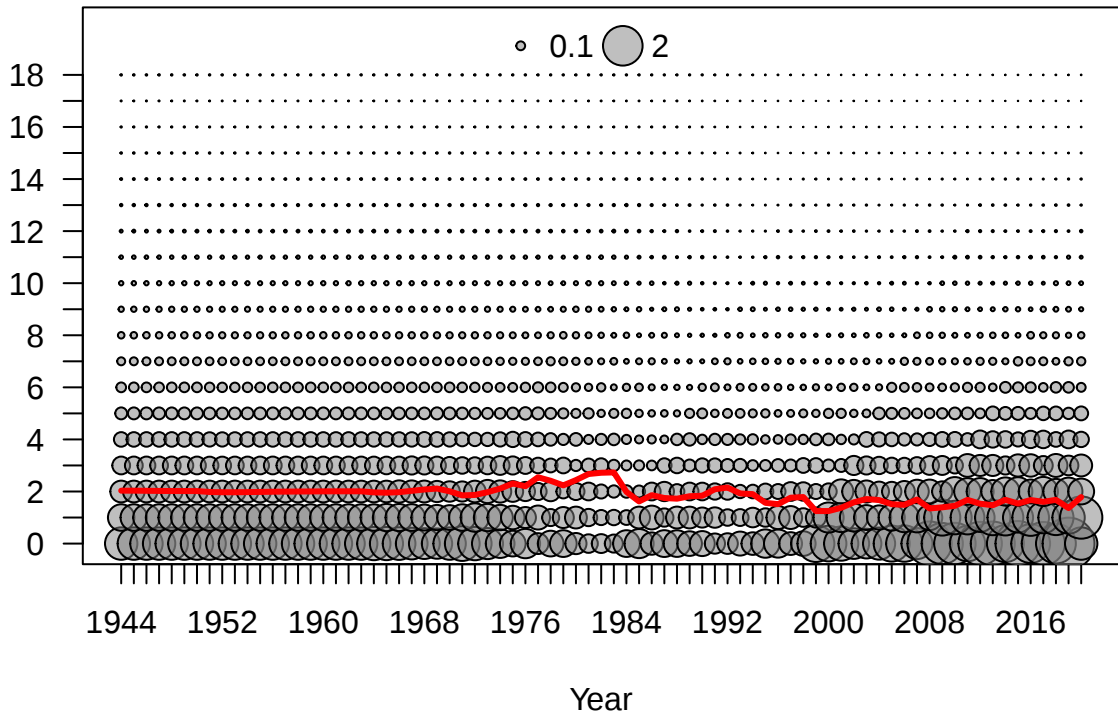


Age

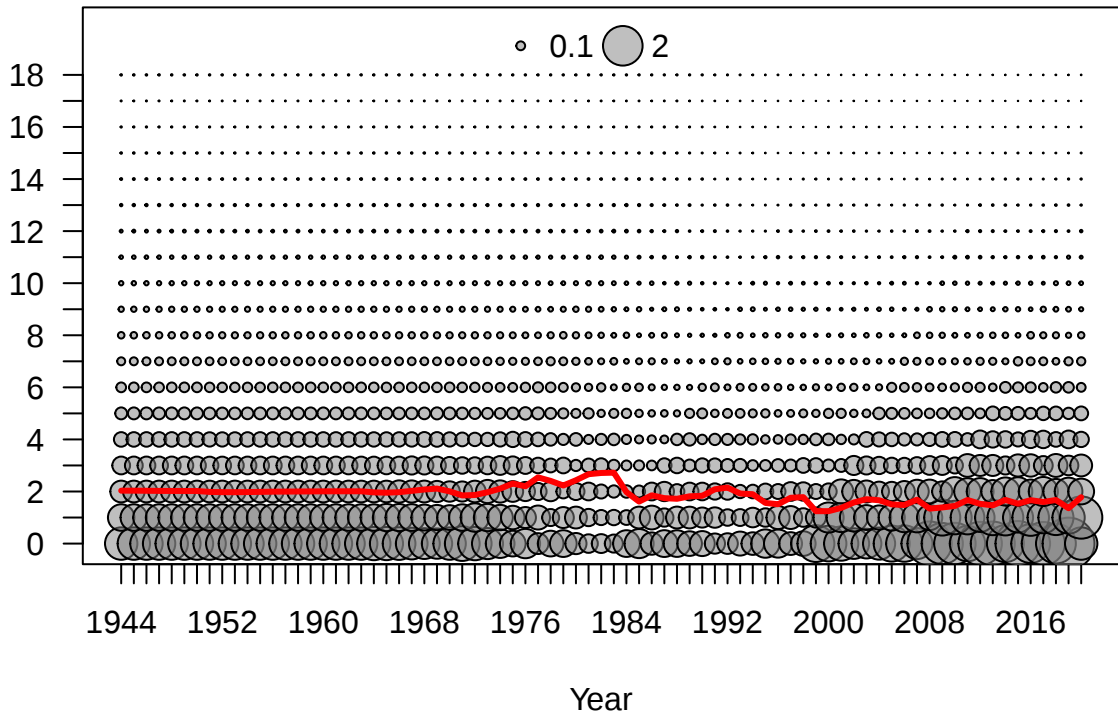


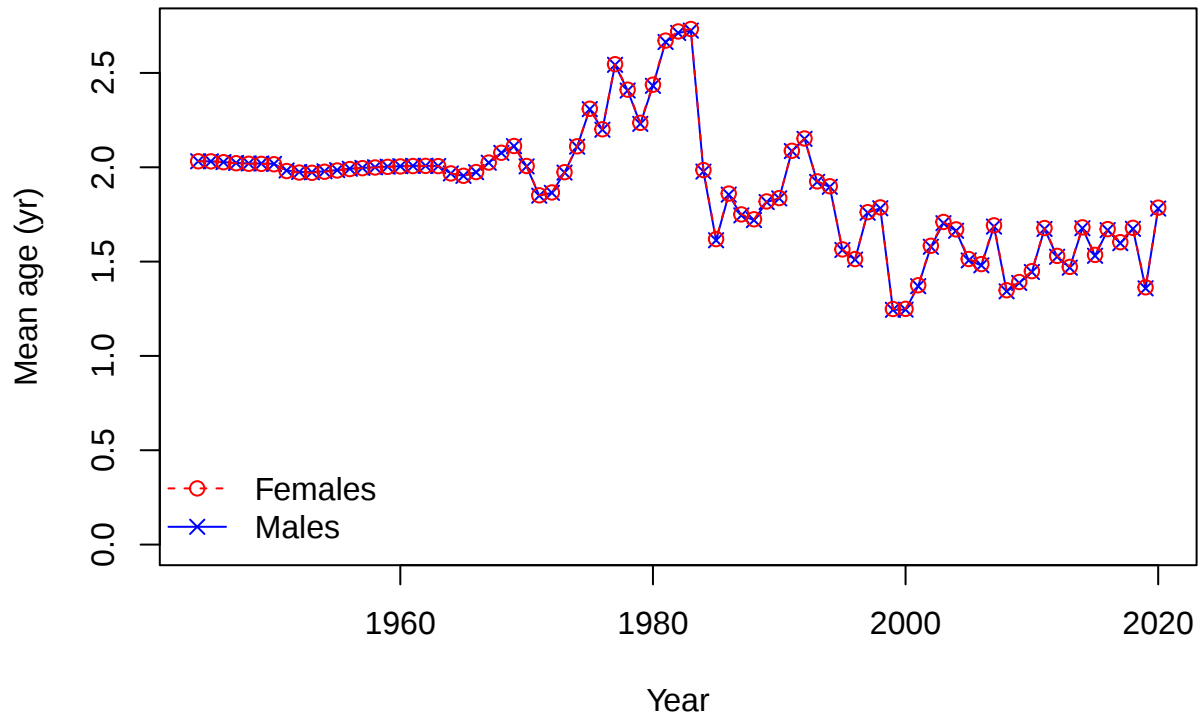


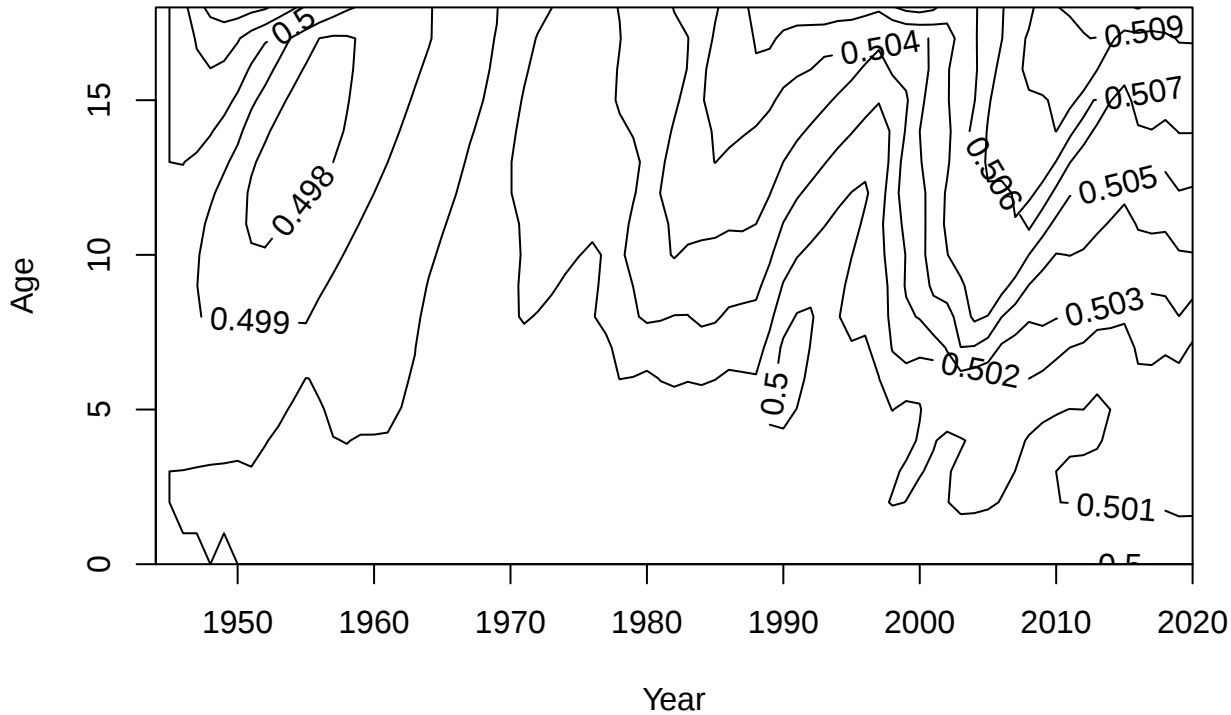
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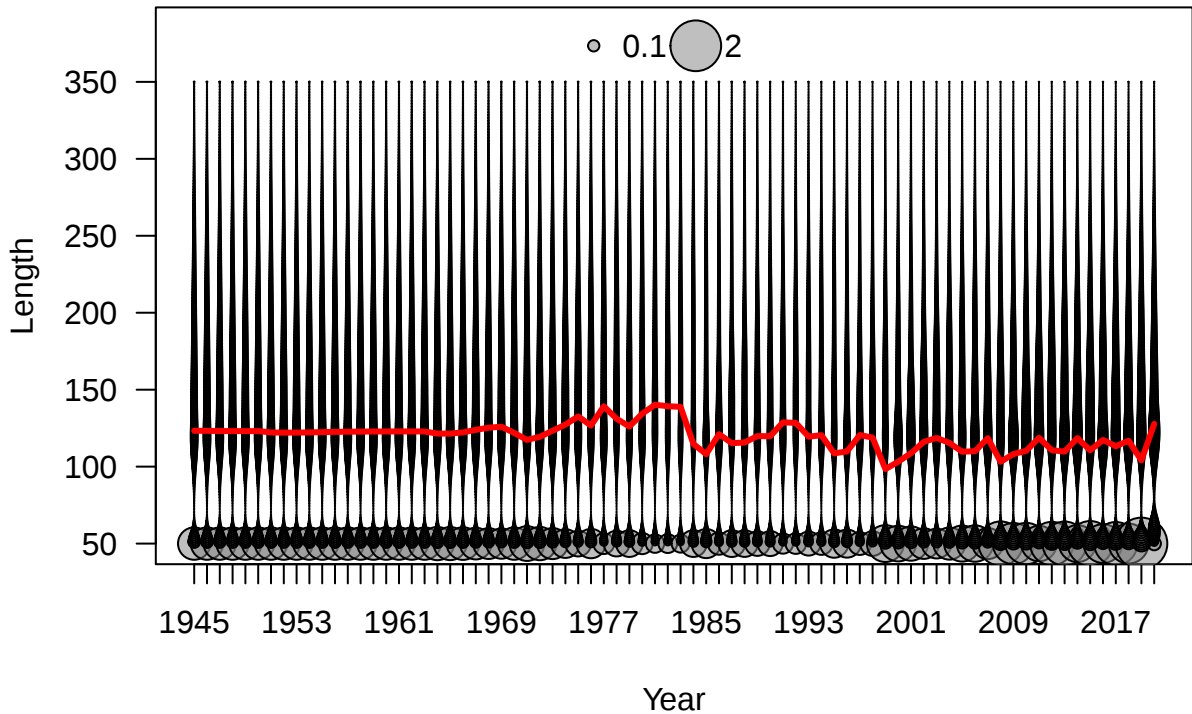


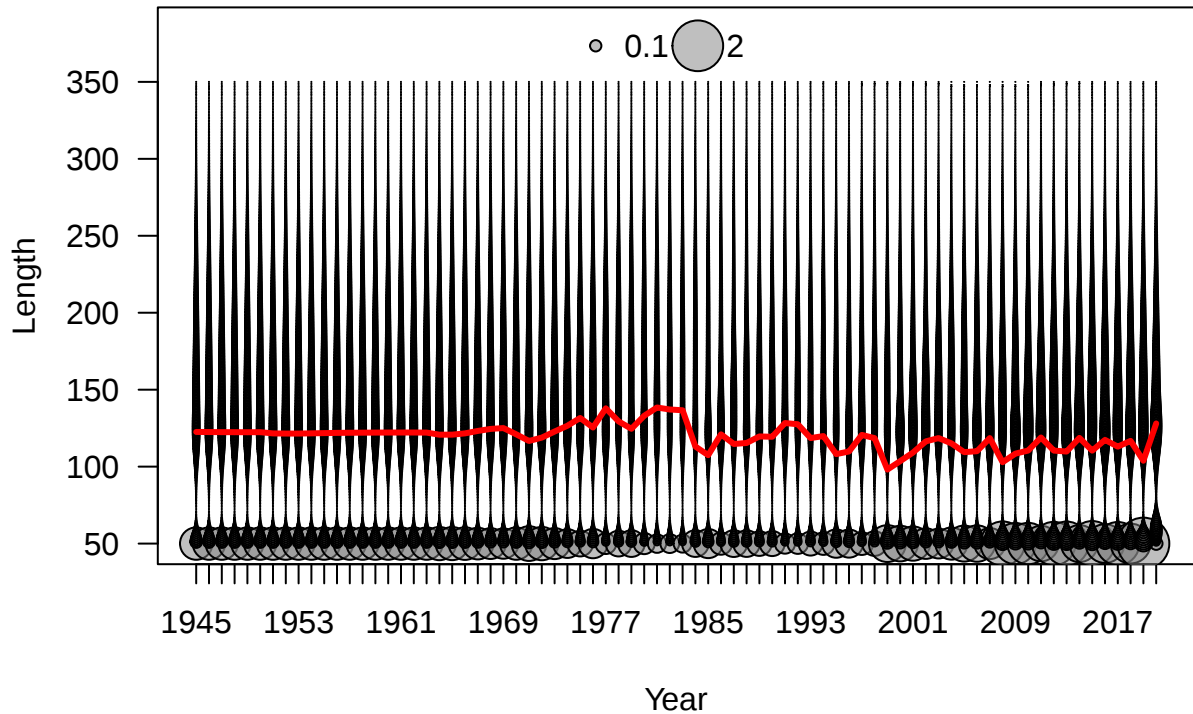
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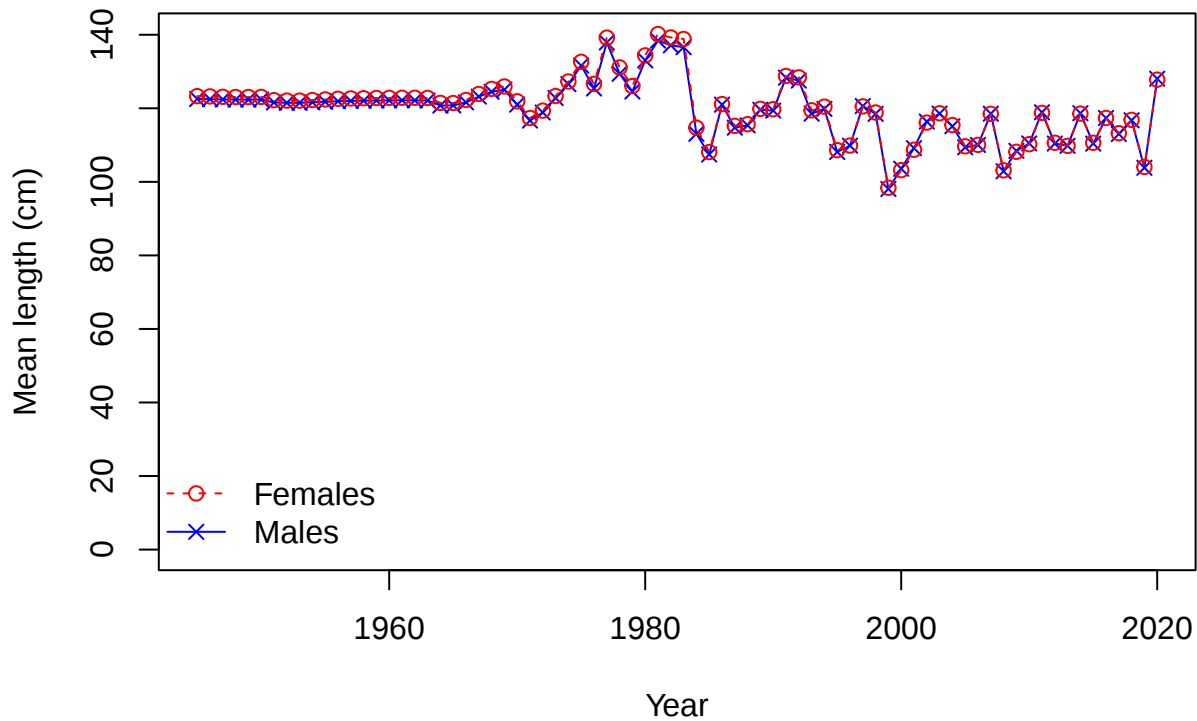


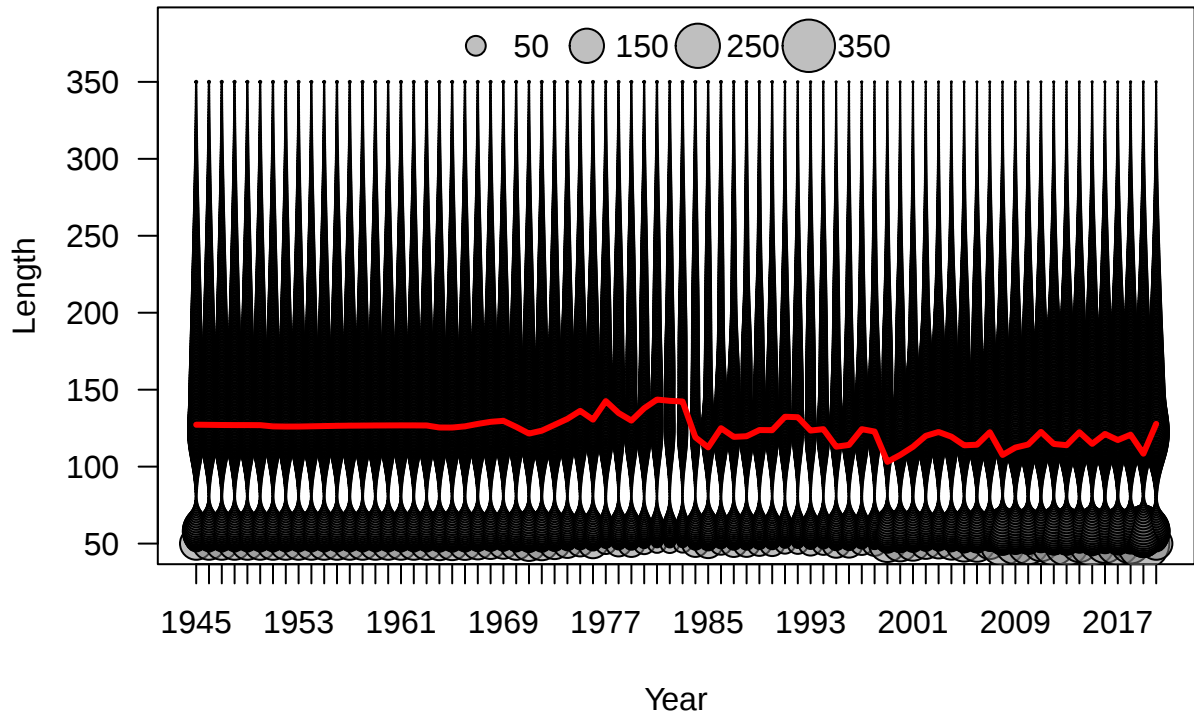


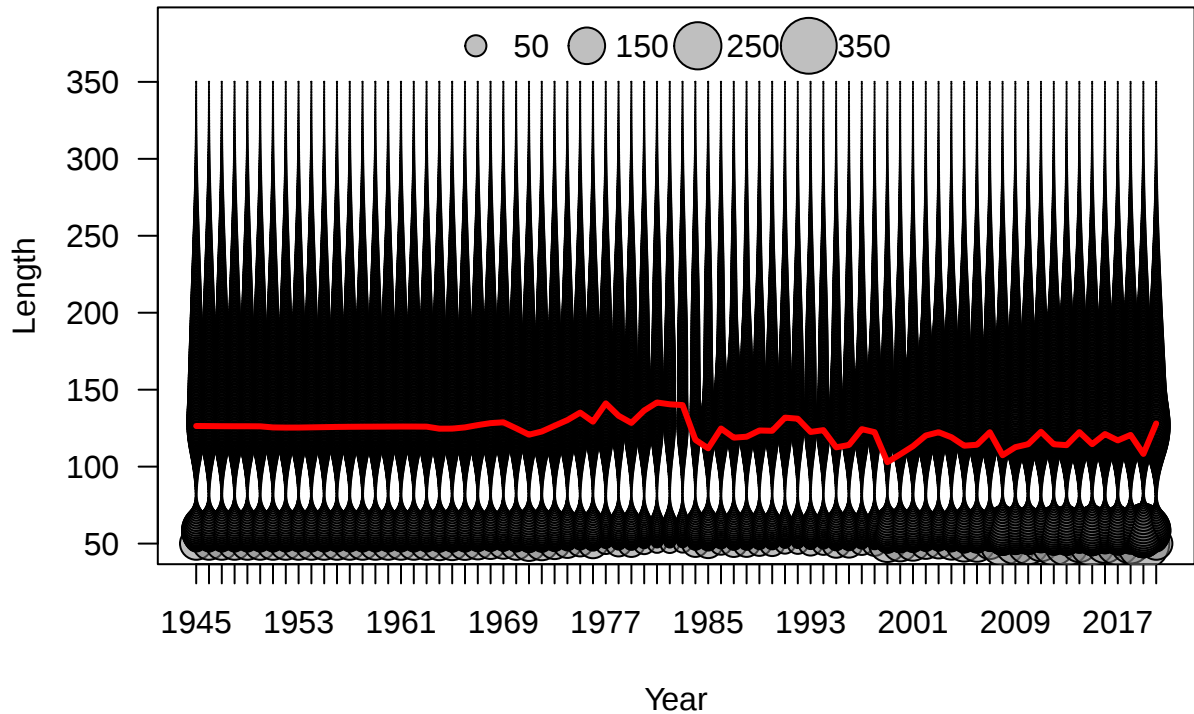


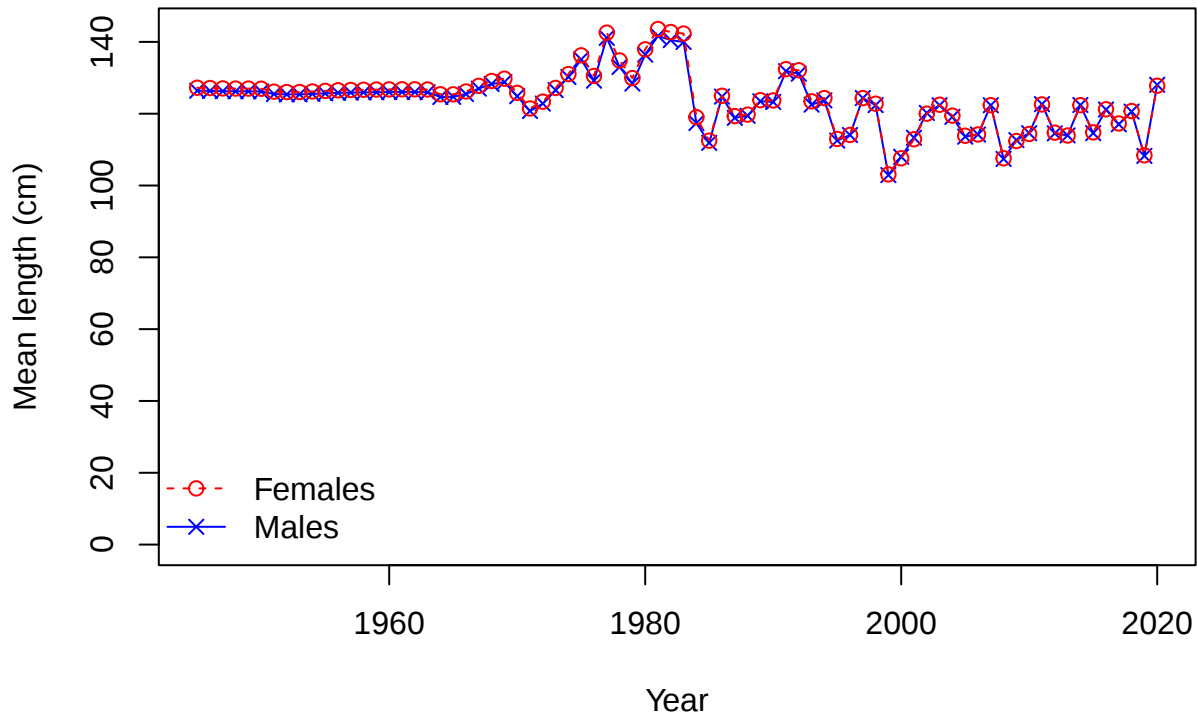


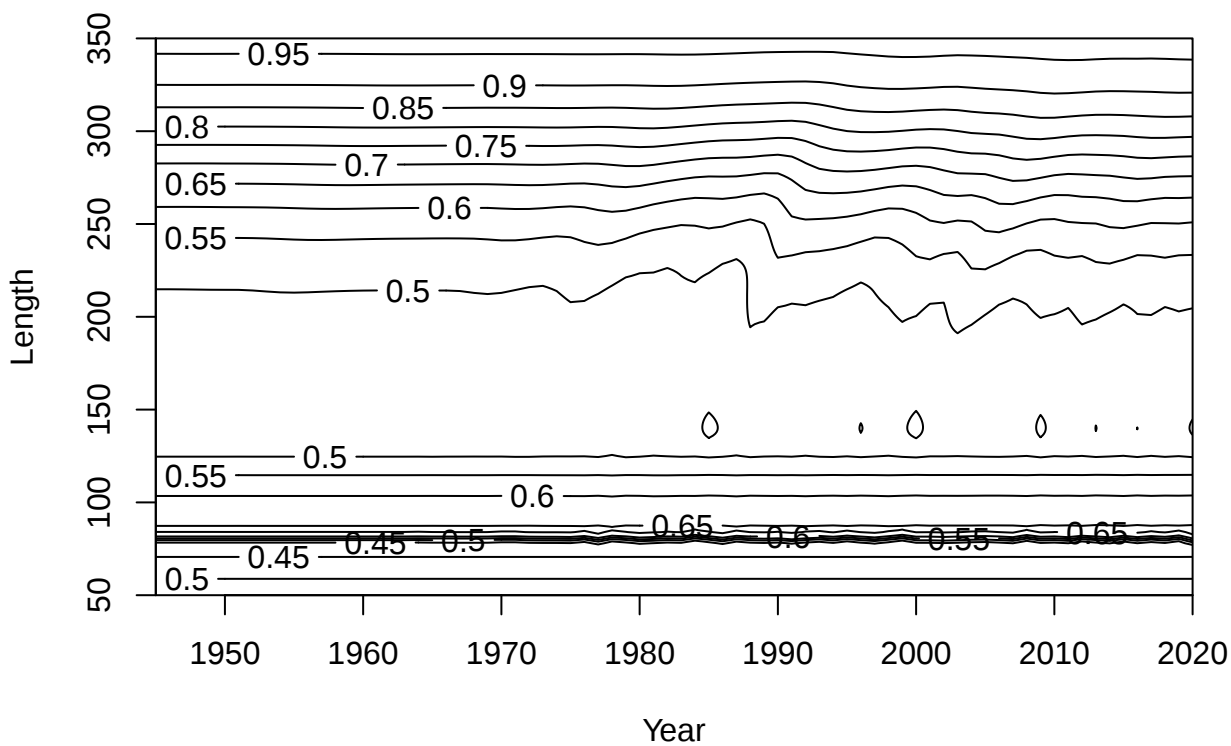


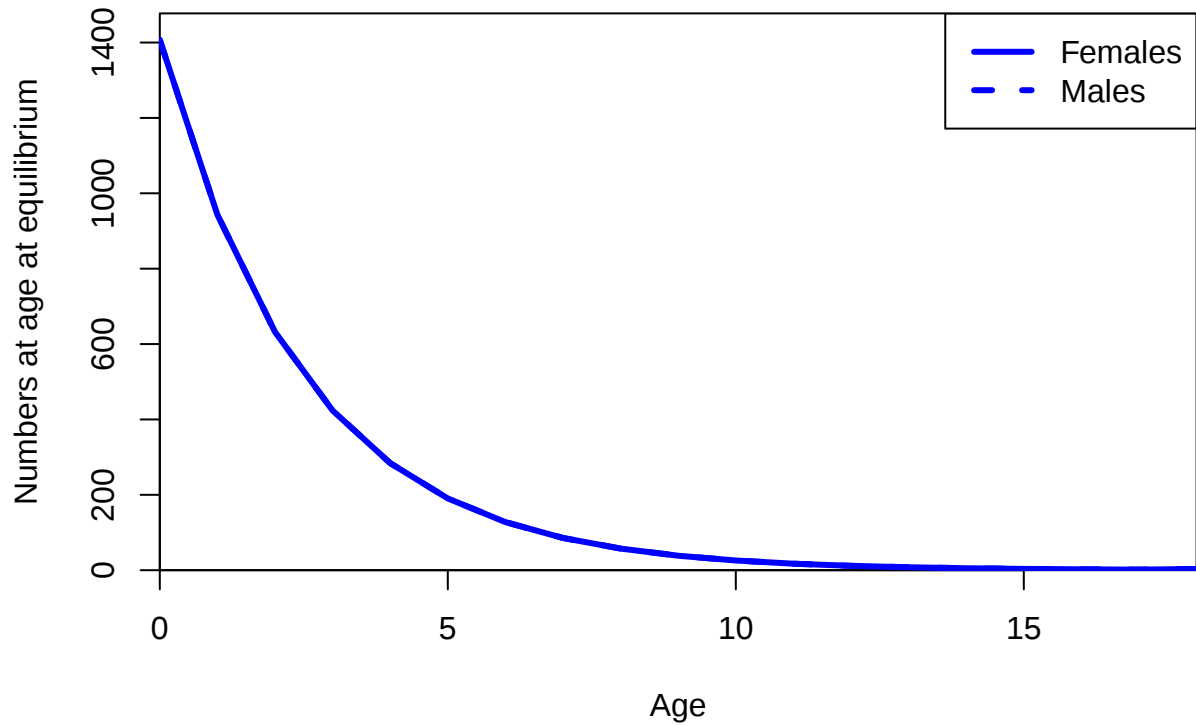


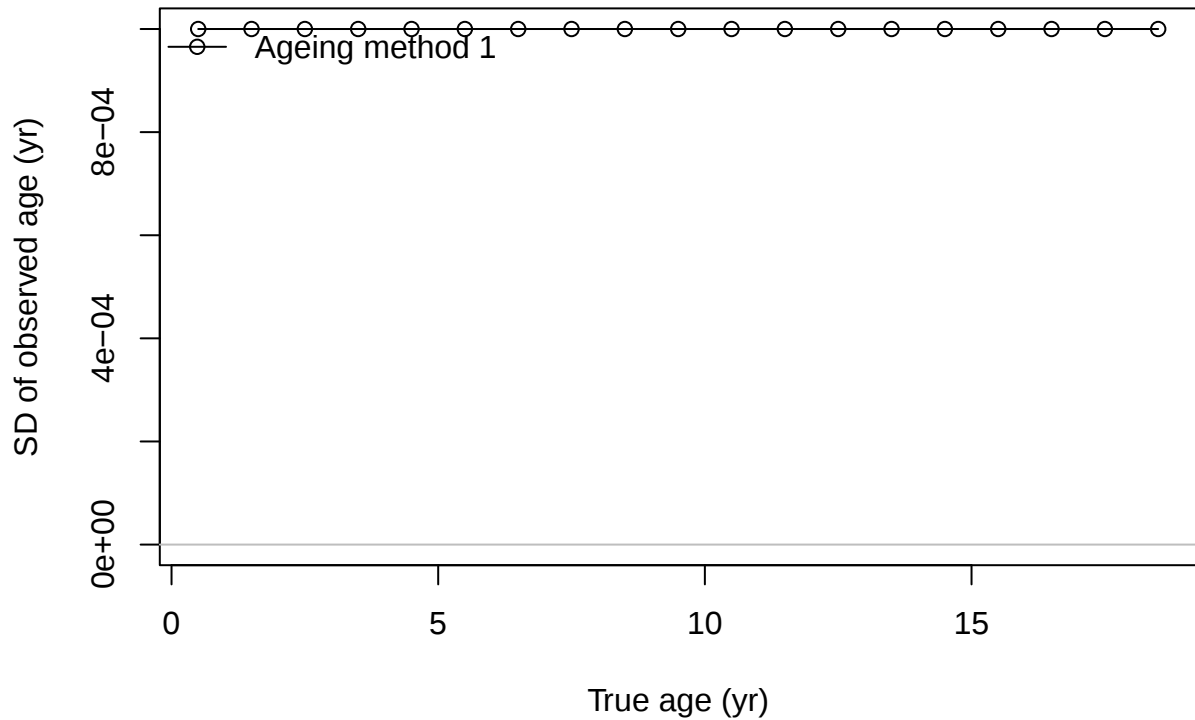


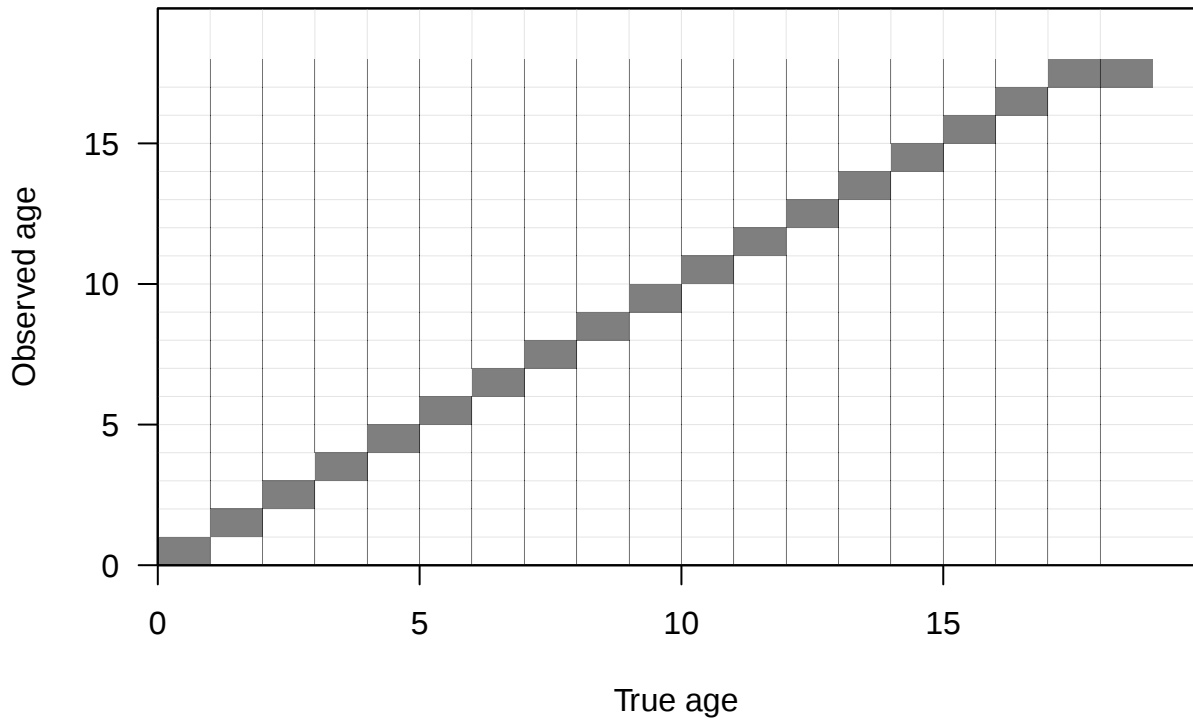


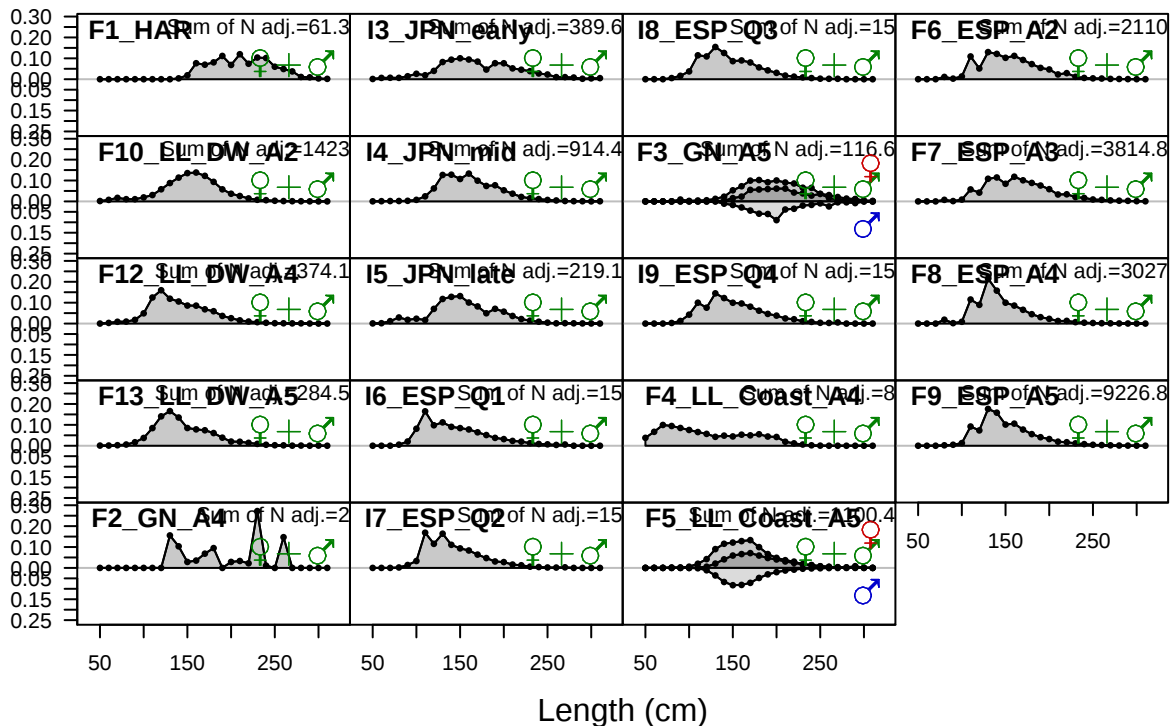


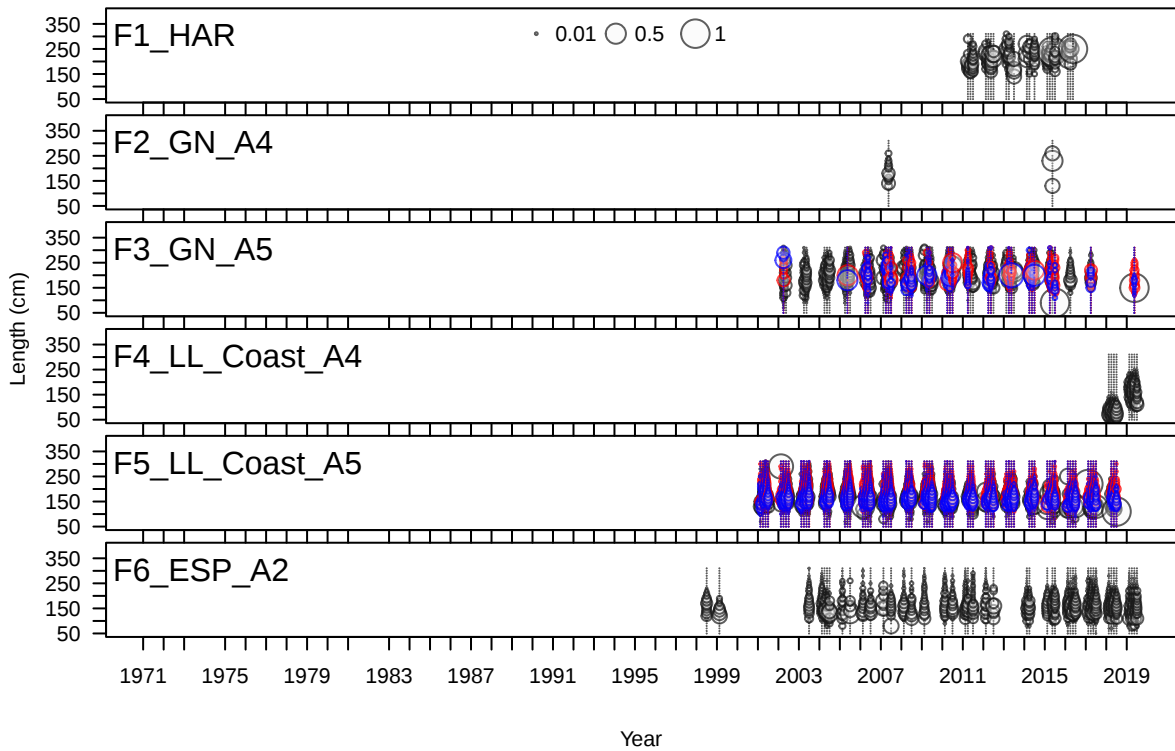


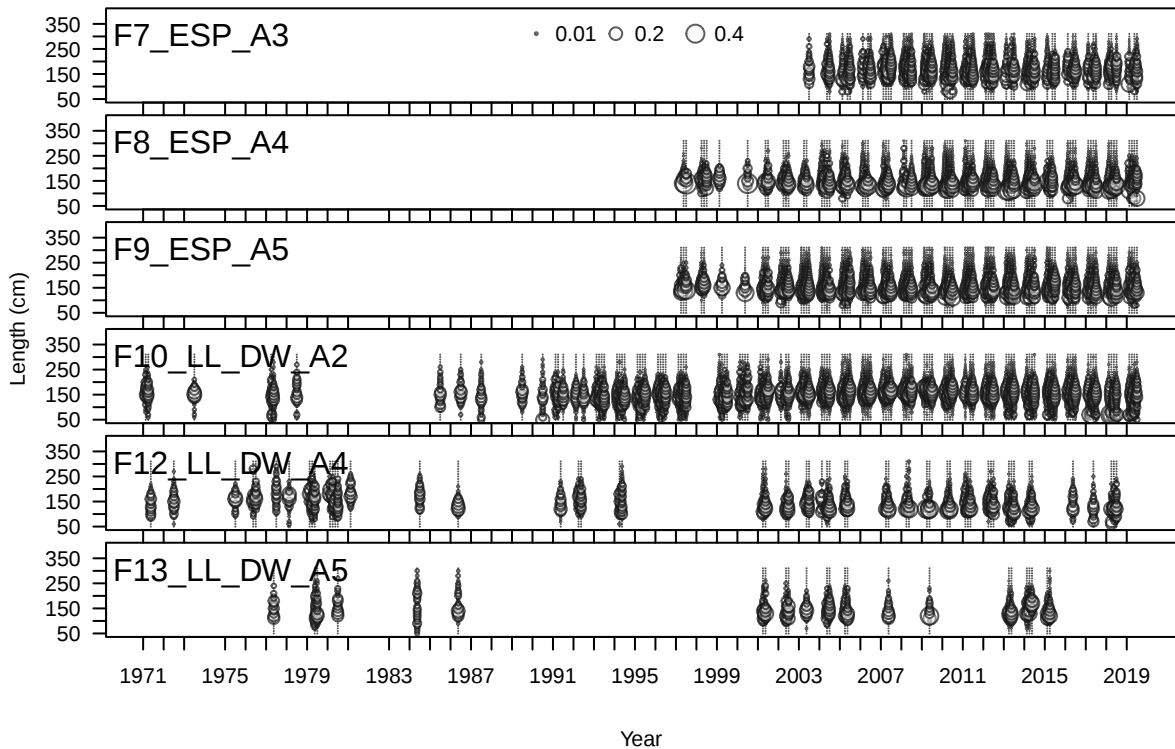


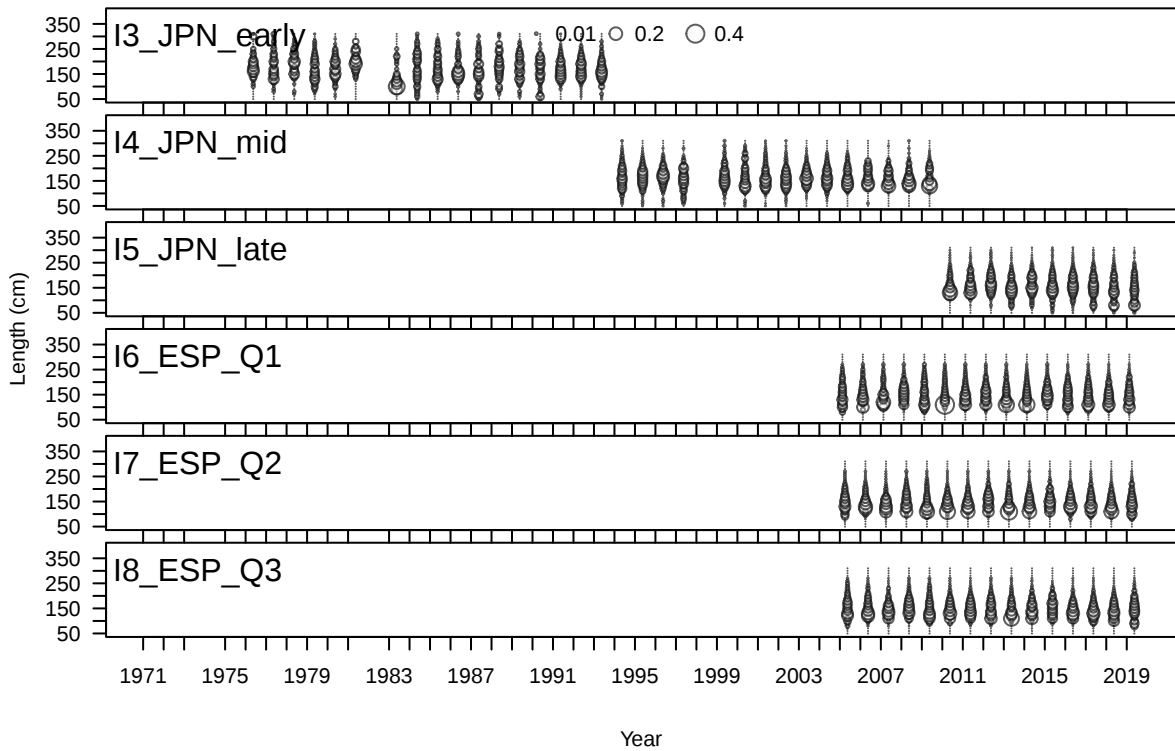




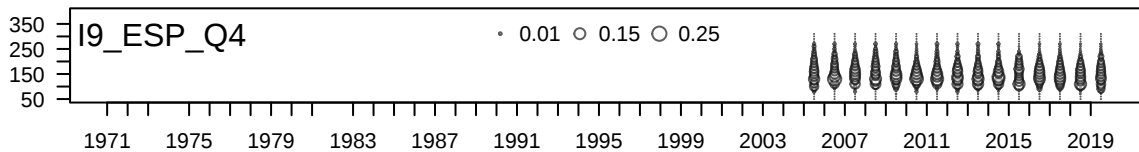






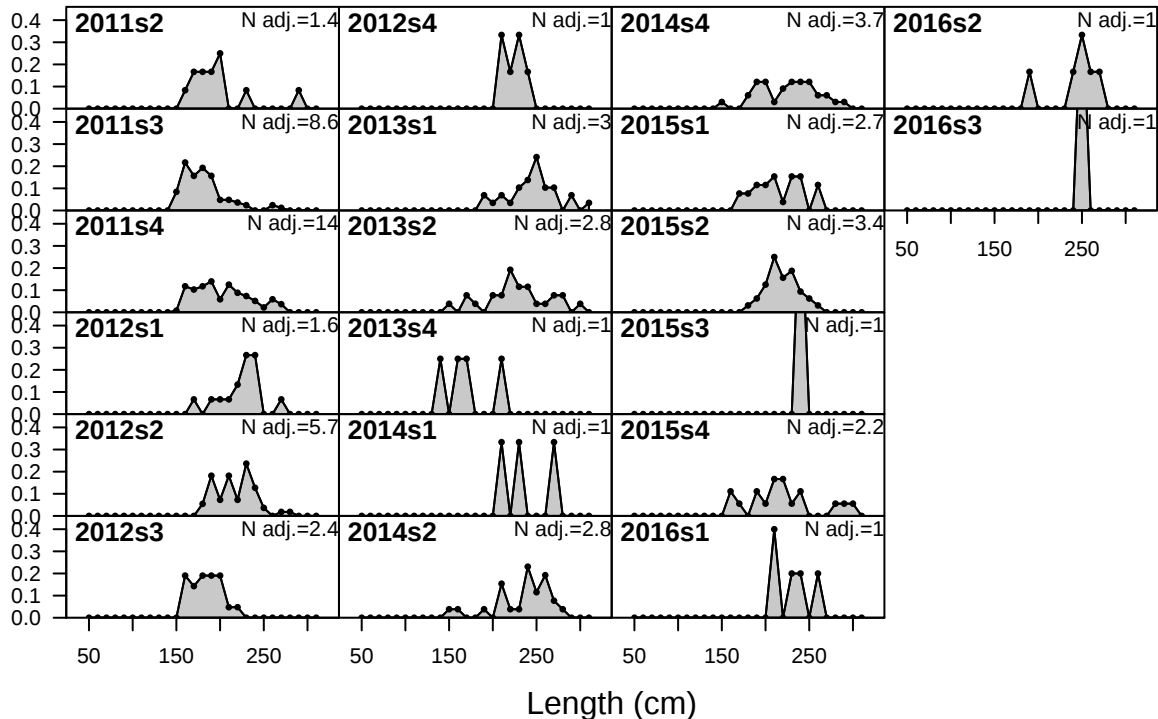


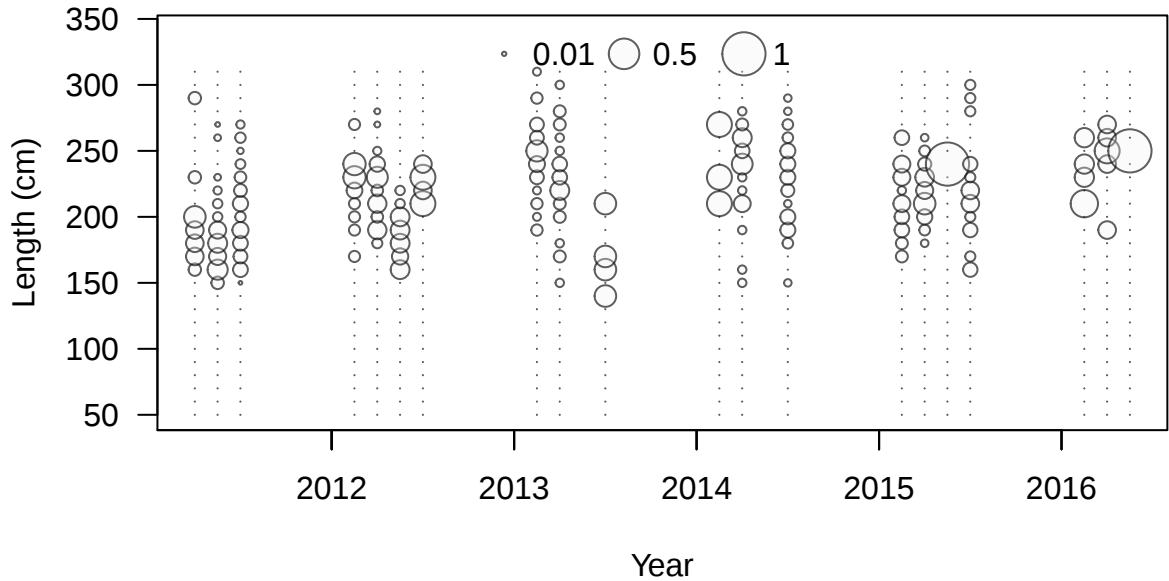
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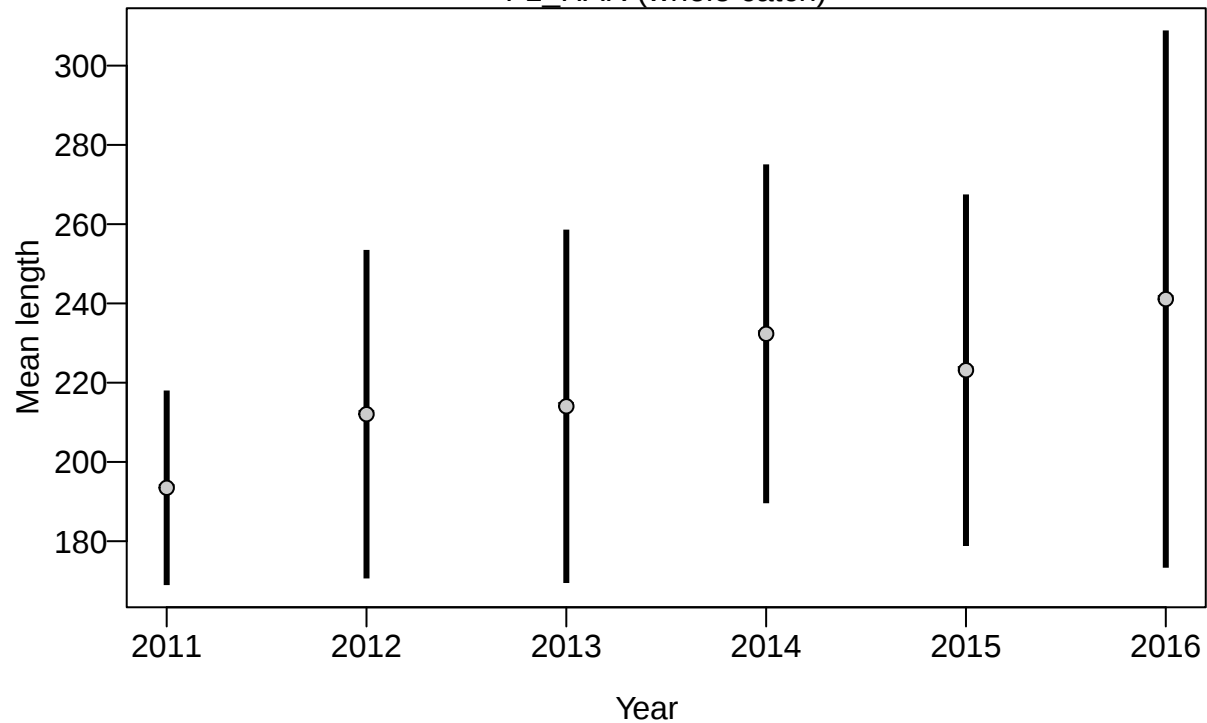
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Proportion

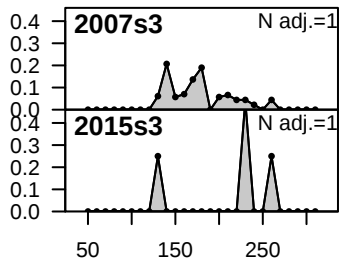




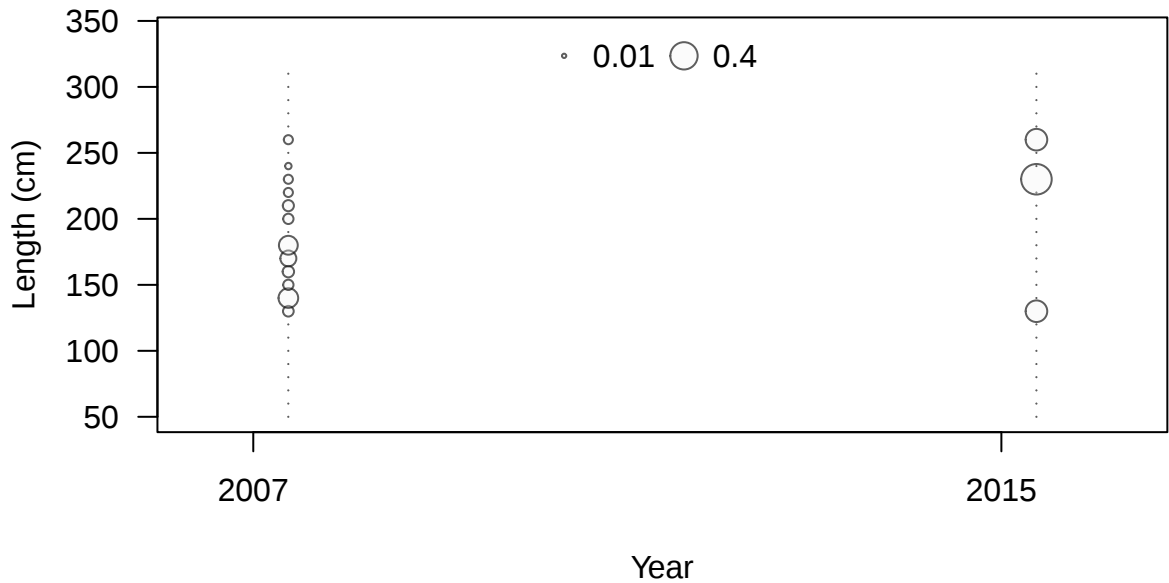
F1_HAR (whole catch)



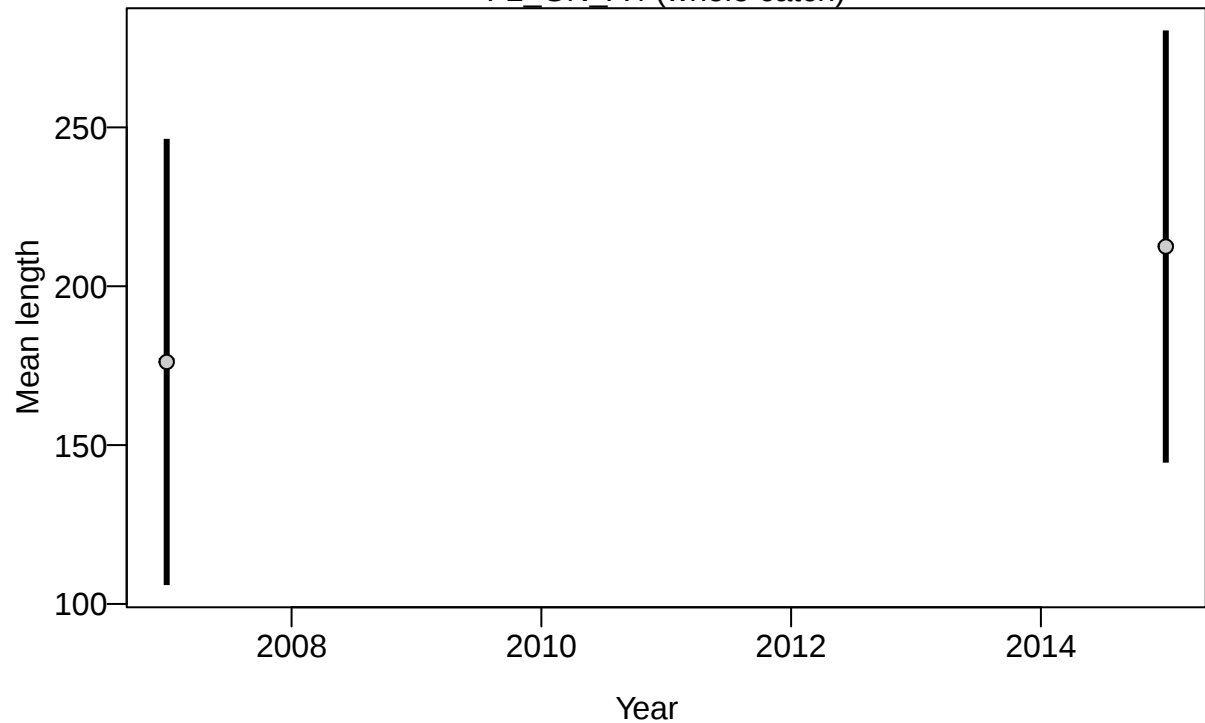
Proportion



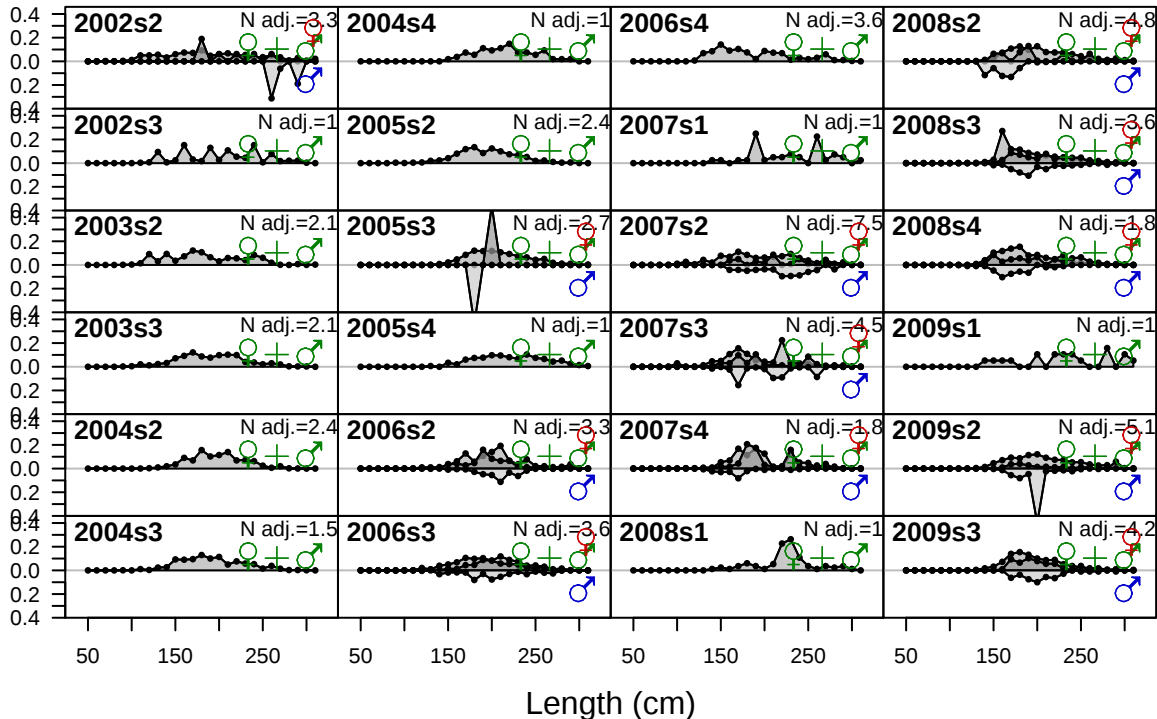
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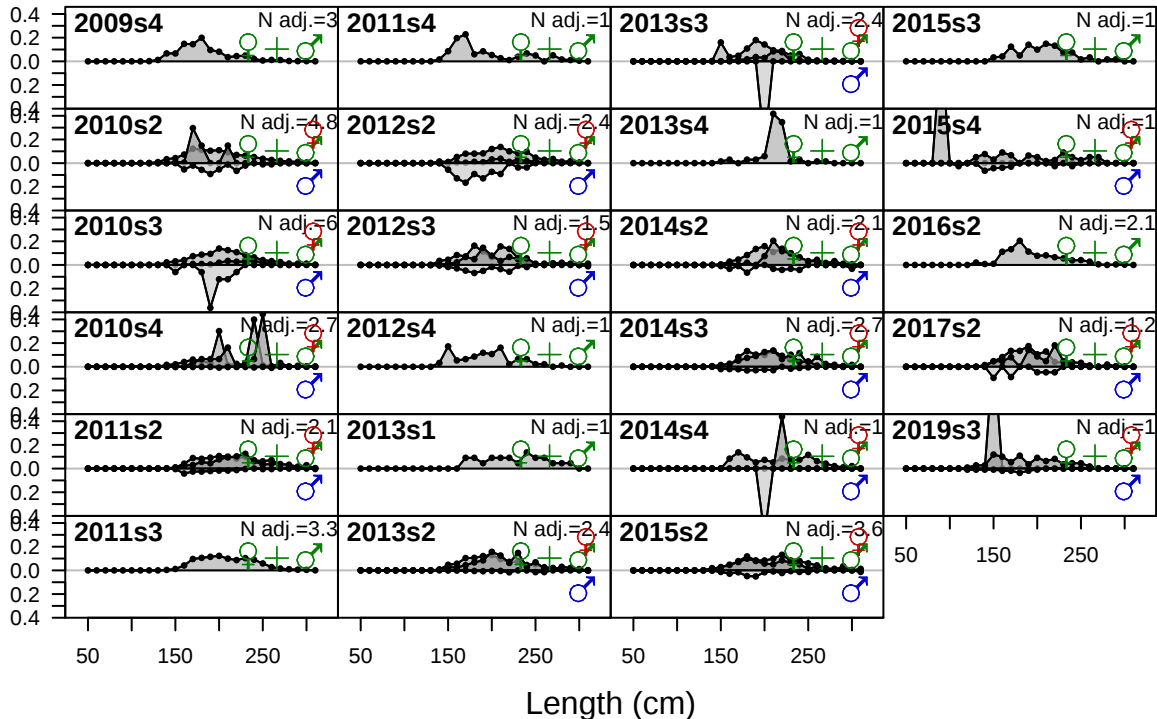
F2_GN_A4 (whole catch)

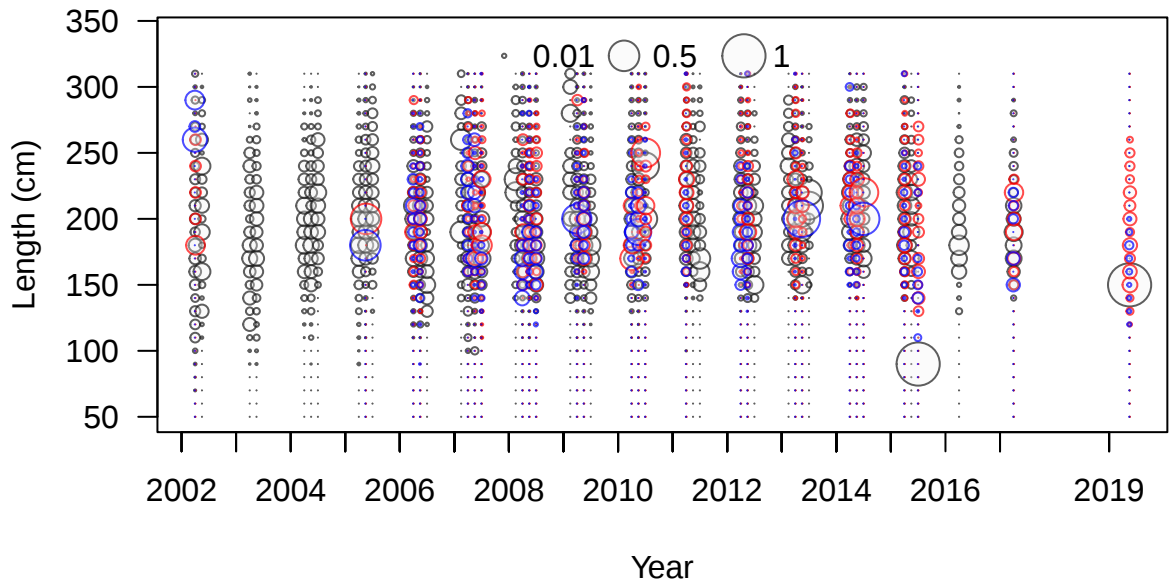


Proportion

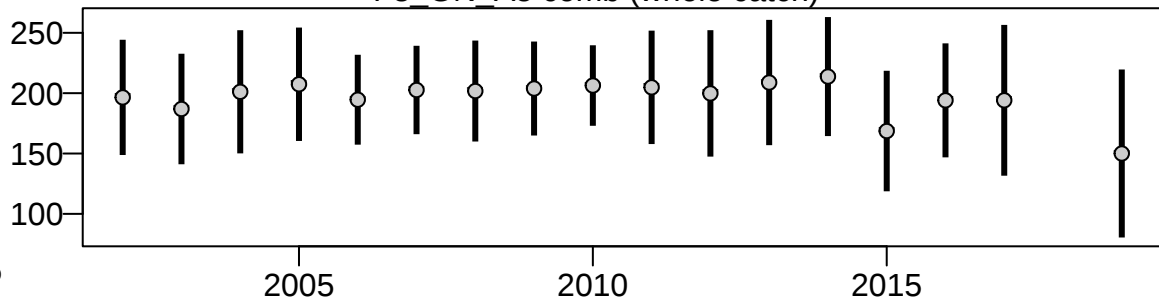


Proportion

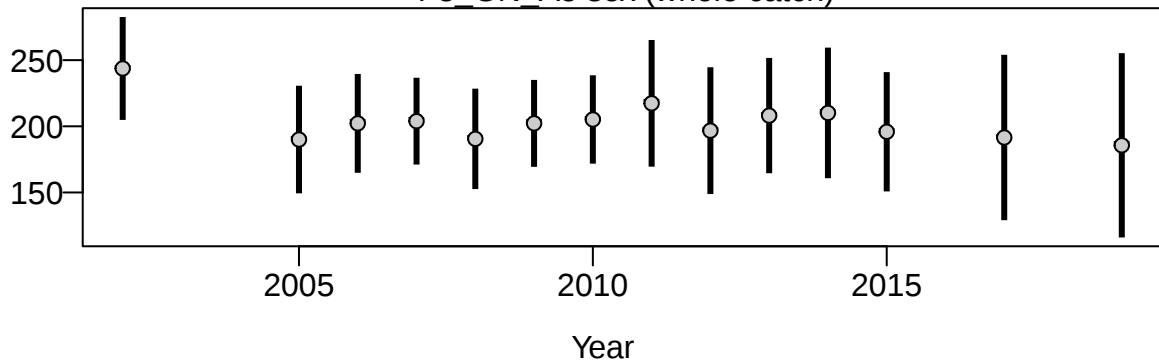




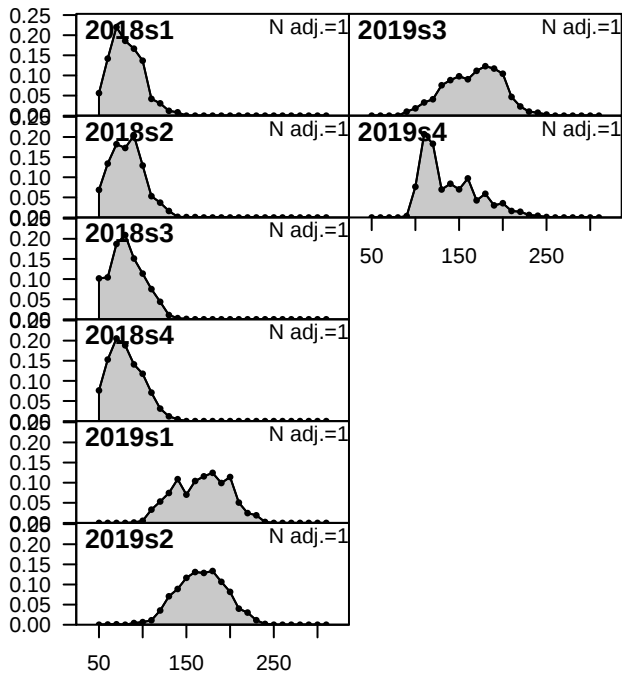
F3_GN_A5 comb (whole catch)



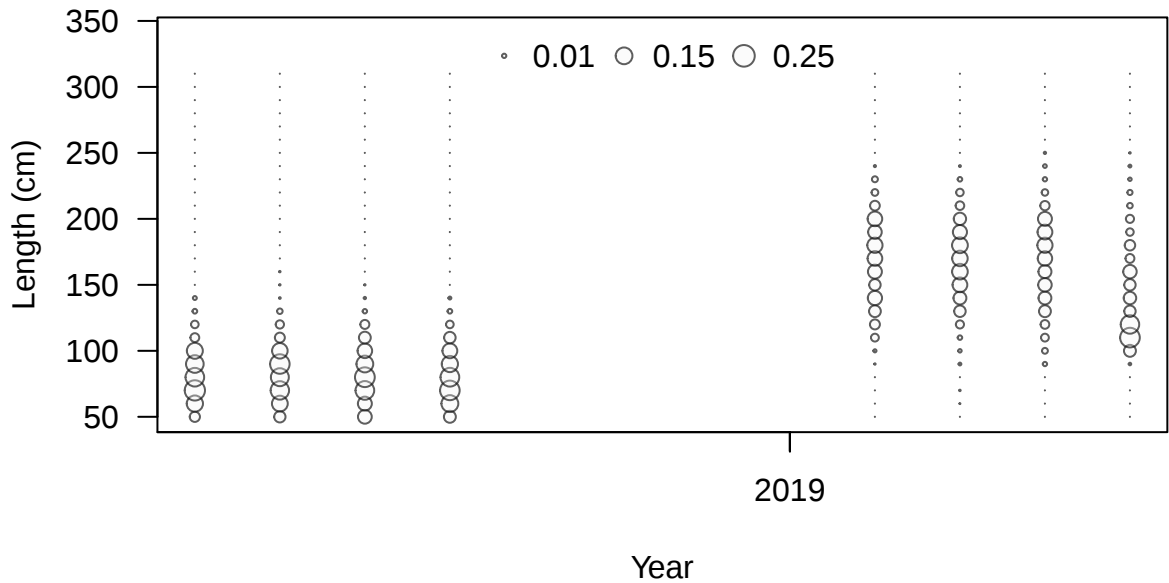
F3_GN_A5 sex (whole catch)



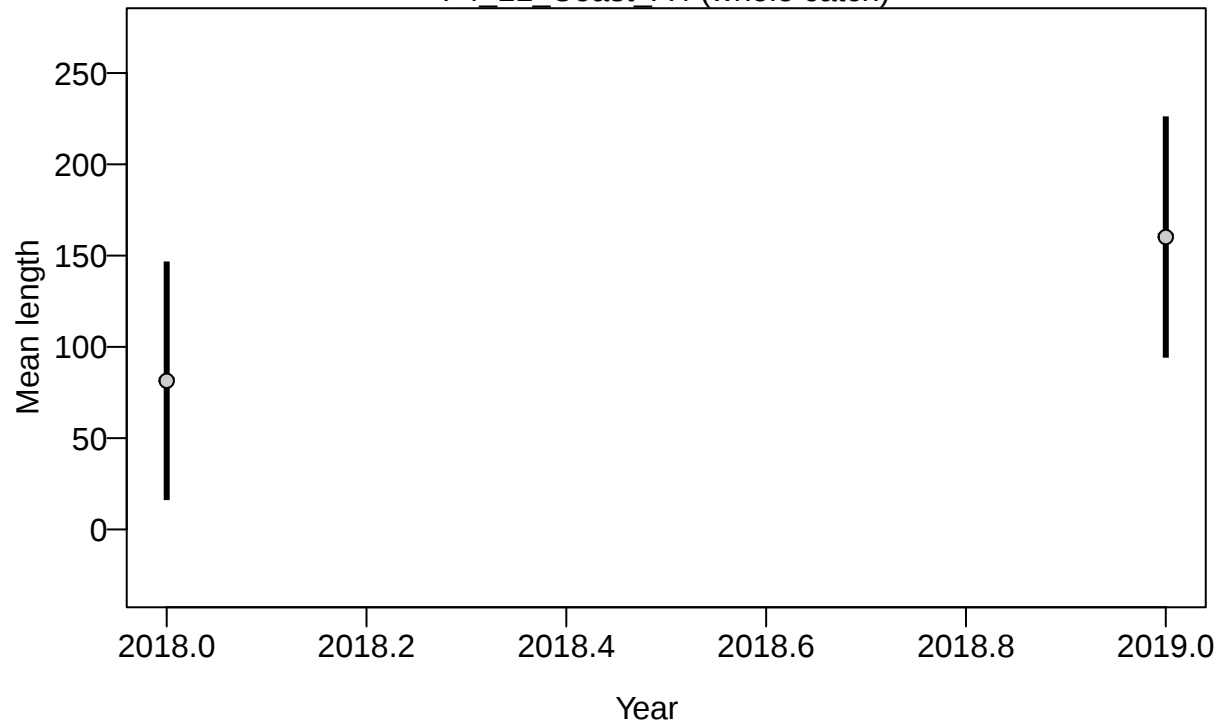
Proportion



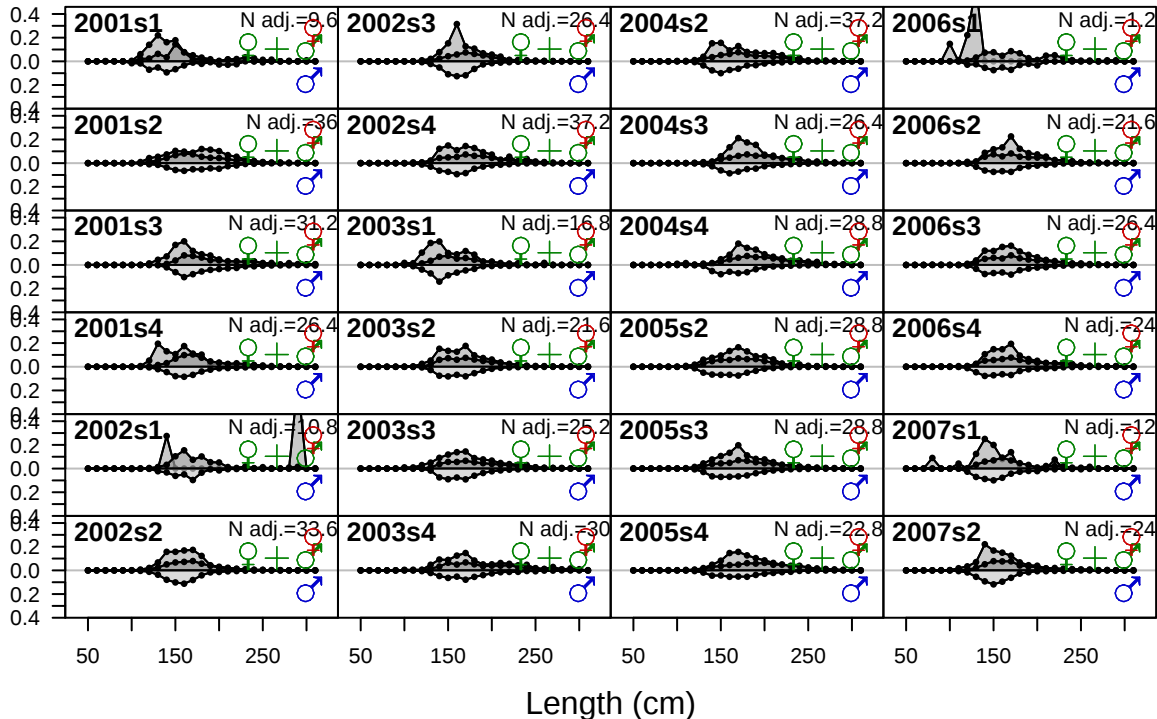
Length (cm)



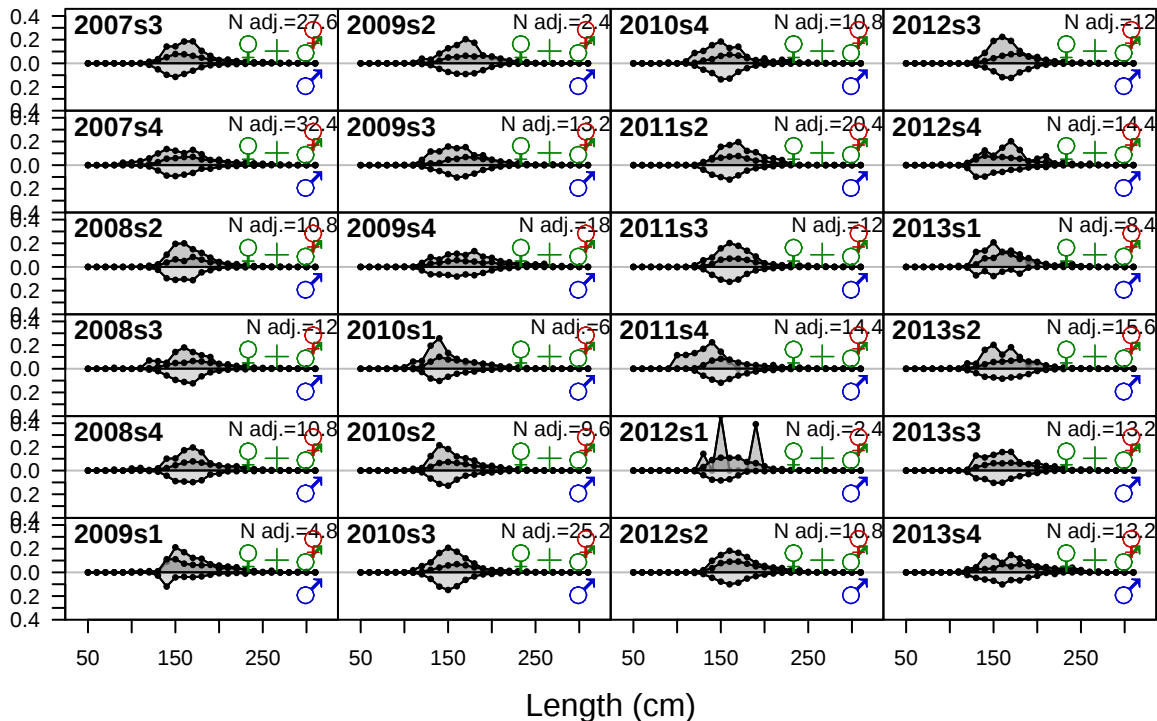
F4_LL_Coast_A4 (whole catch)



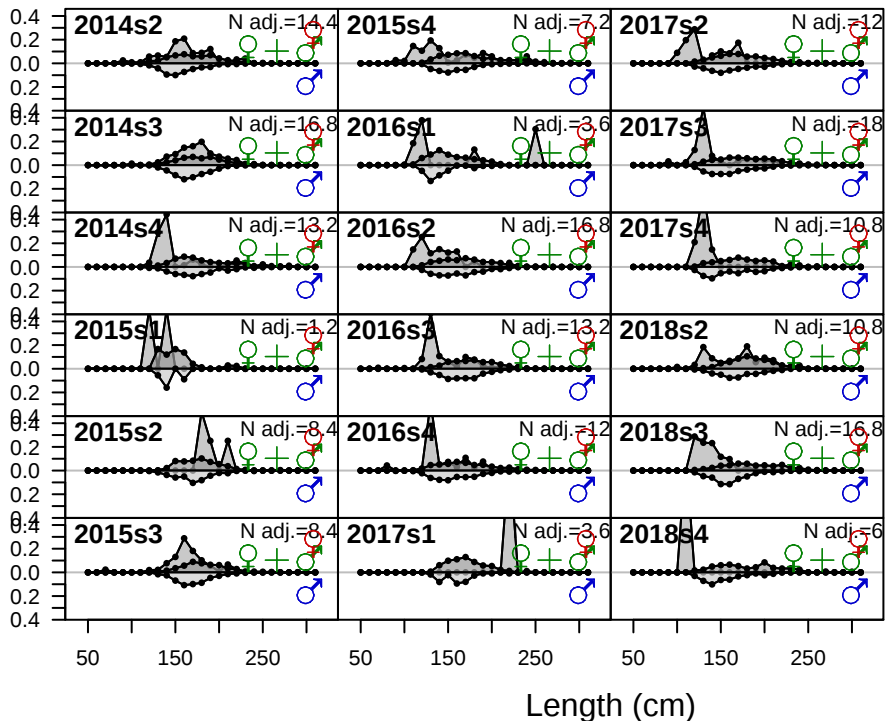
Proportion

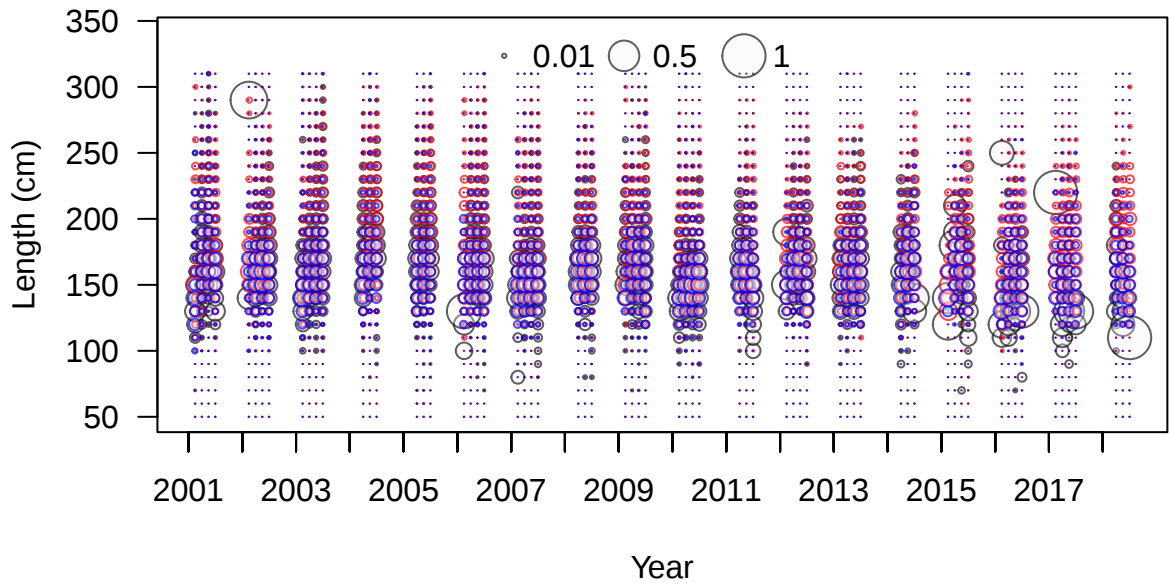


Proportion

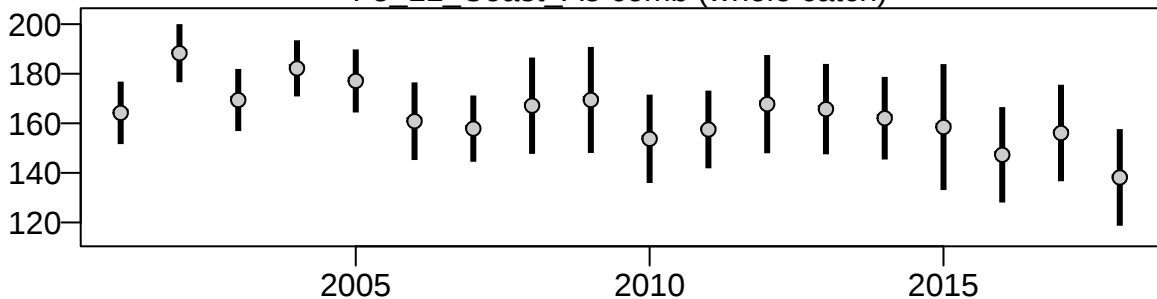


Proportion

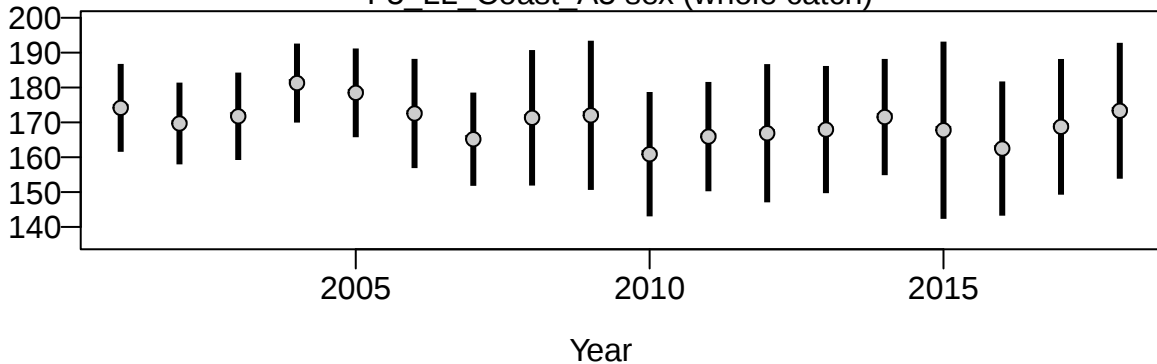




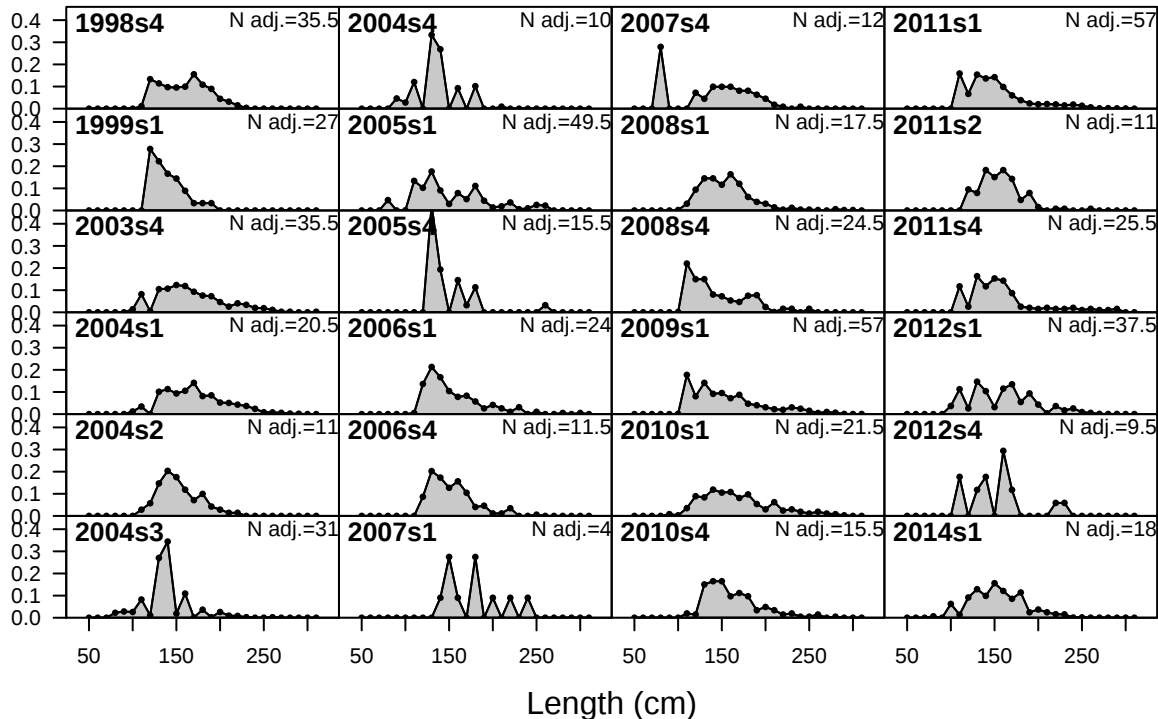
F5_LL_Coast_A5 comb (whole catch)



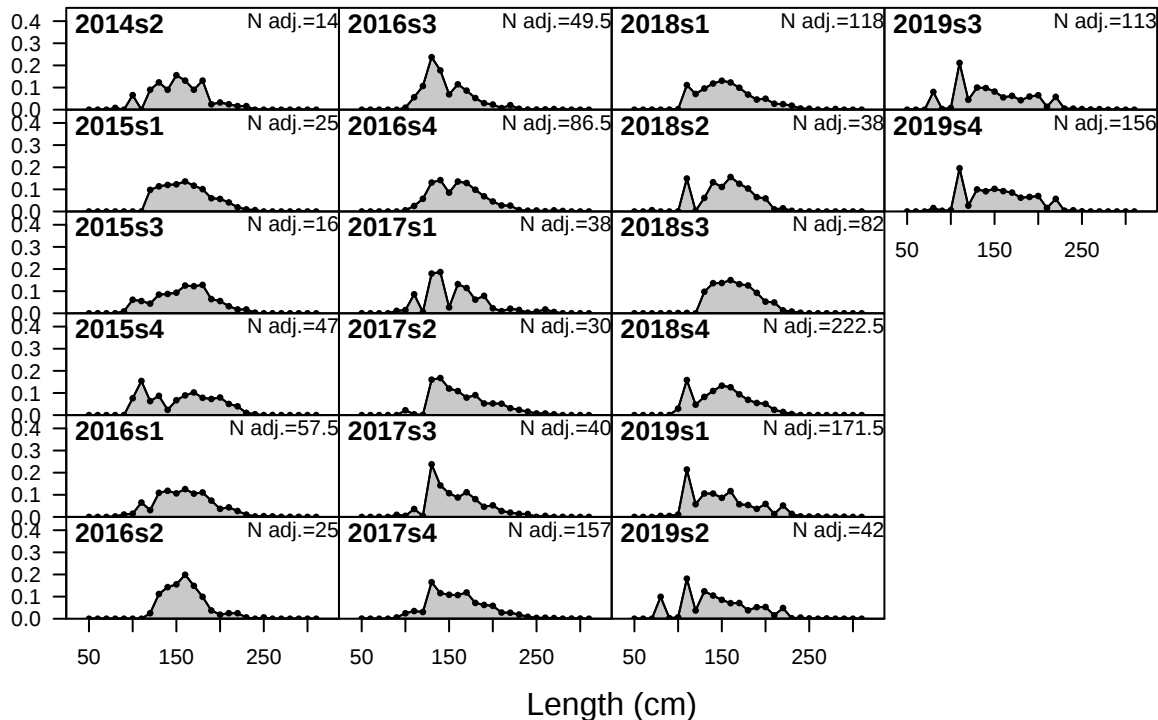
F5_LL_Coast_A5 sex (whole catch)

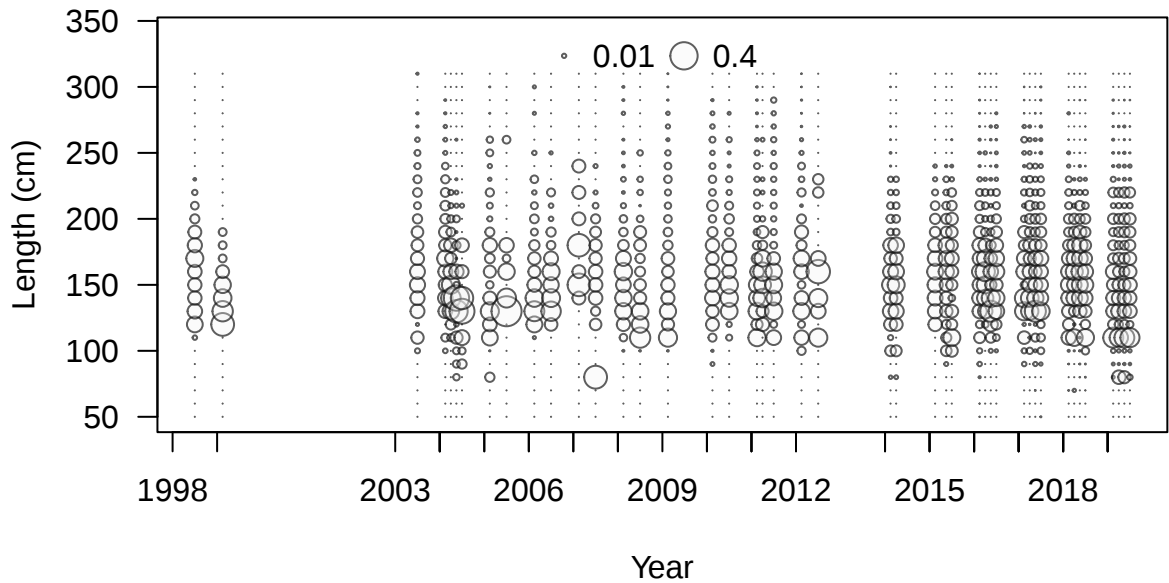


Proportion

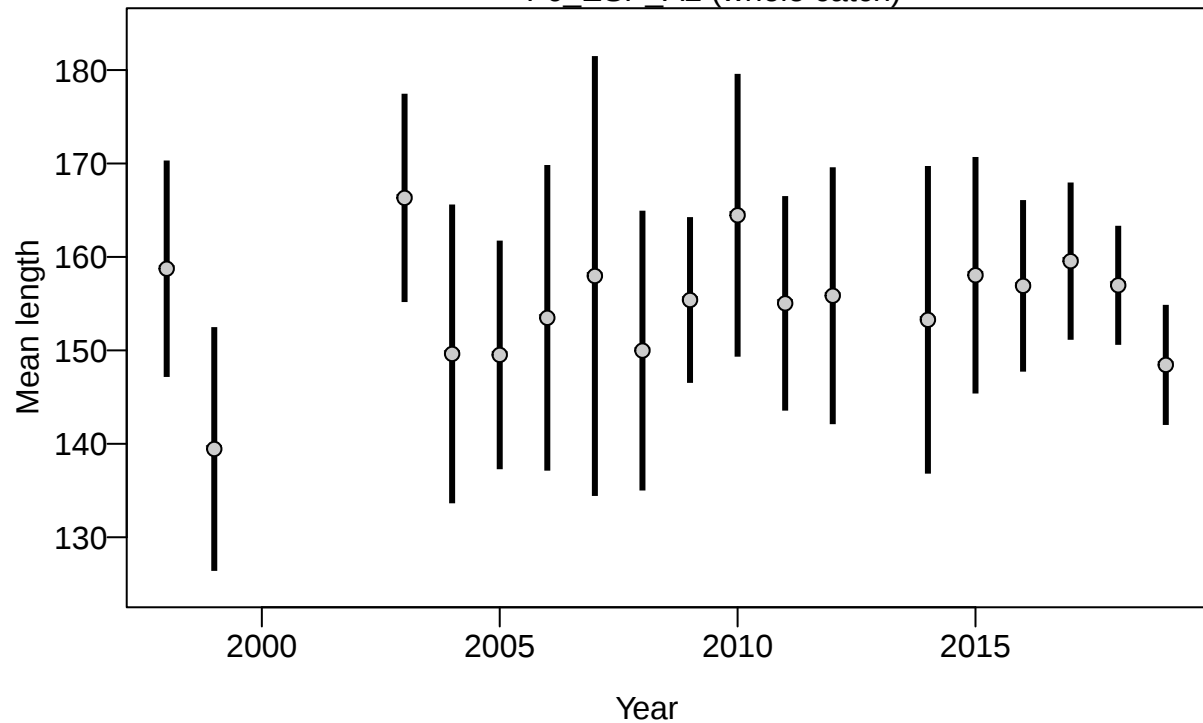


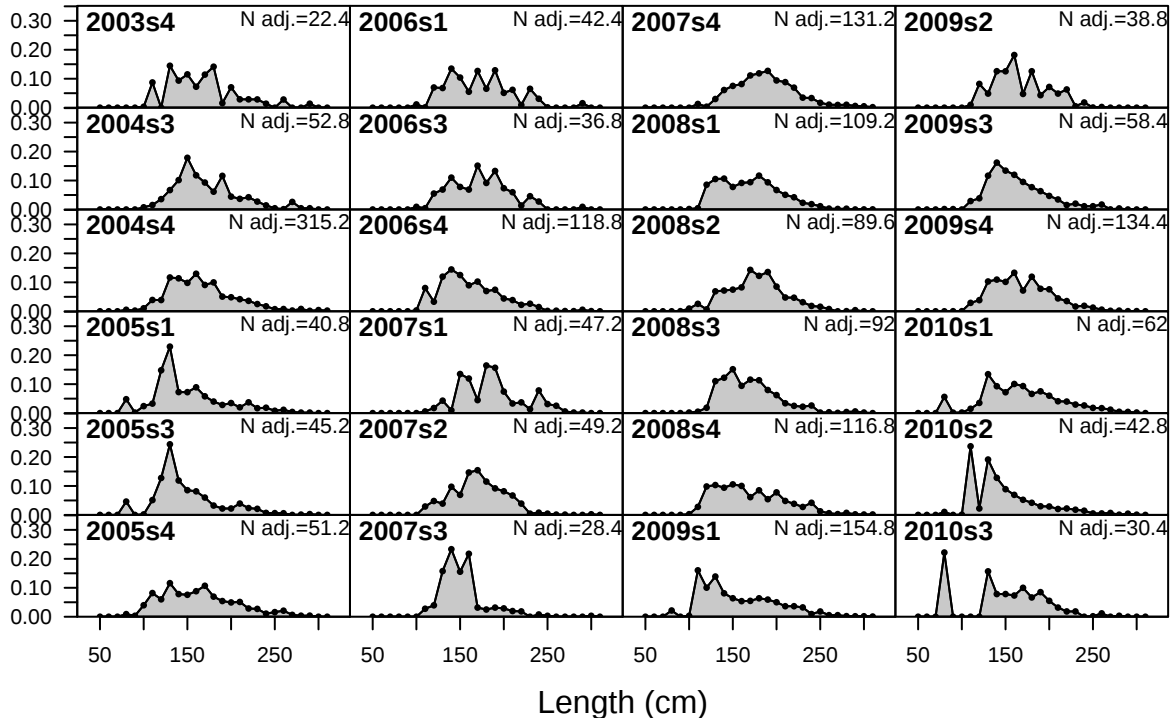
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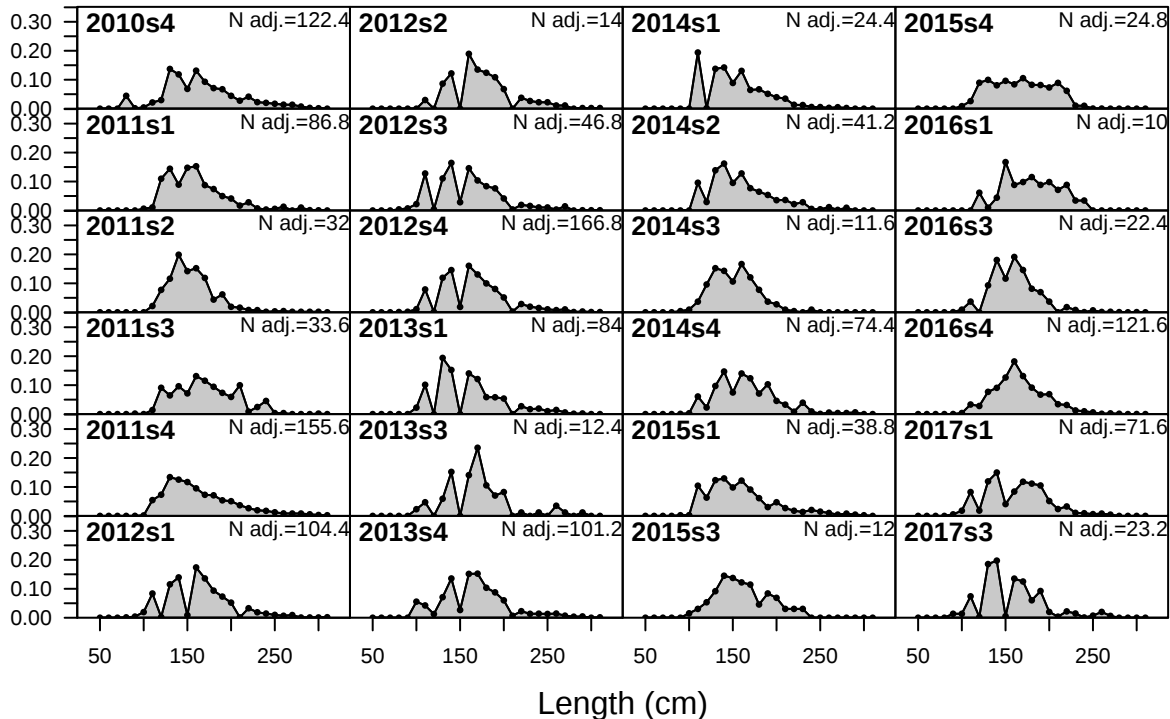




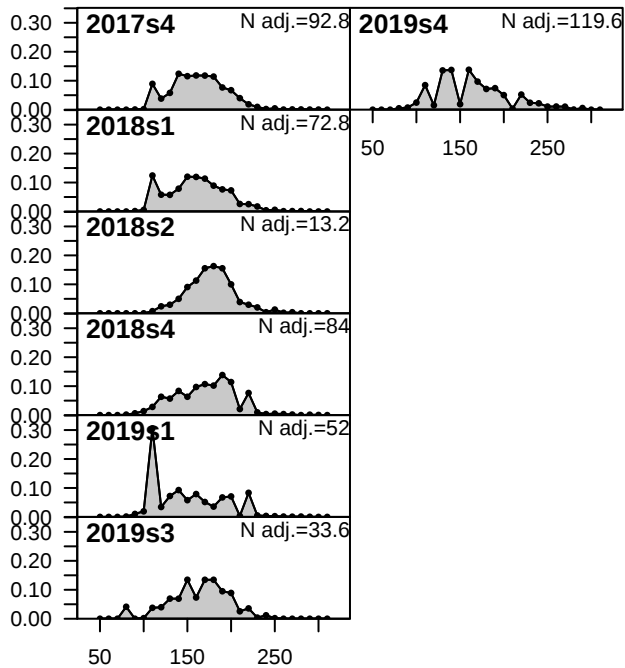
F6_ESP_A2 (whole catch)



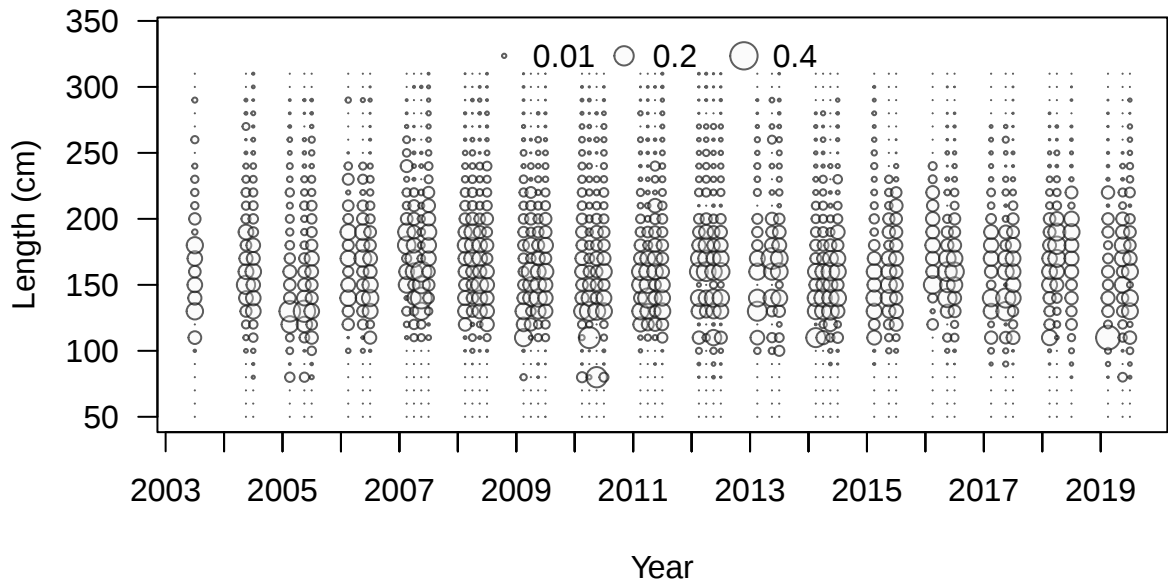




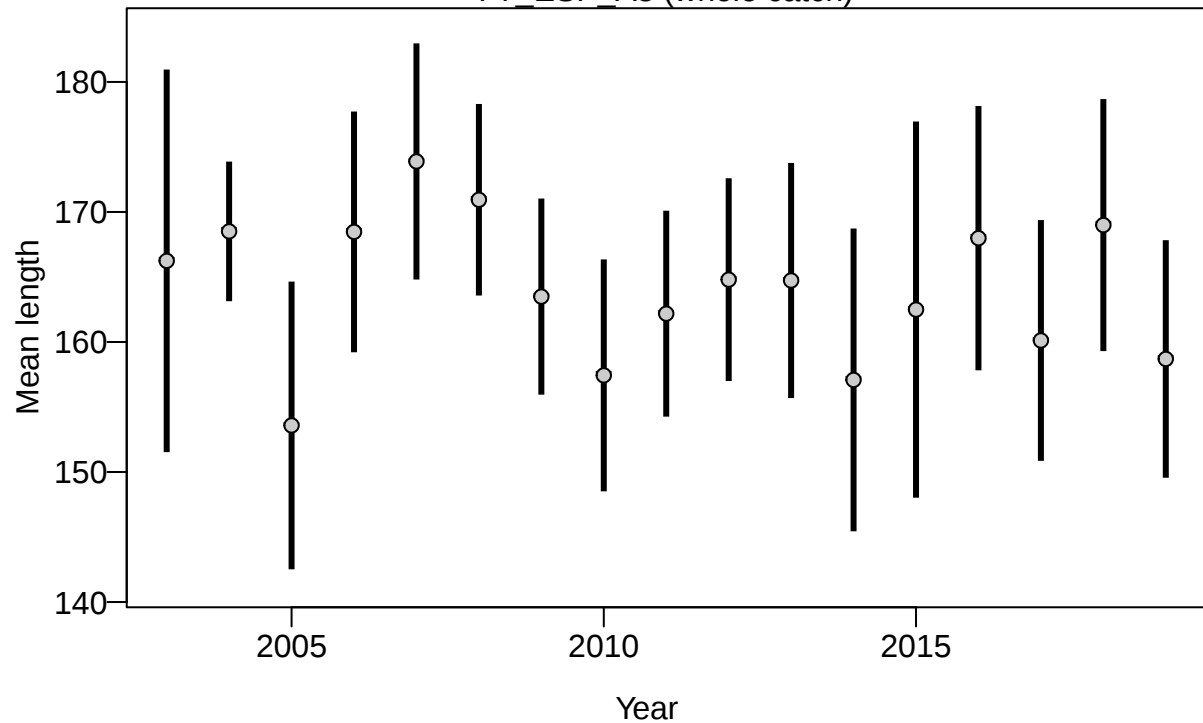
Proportion



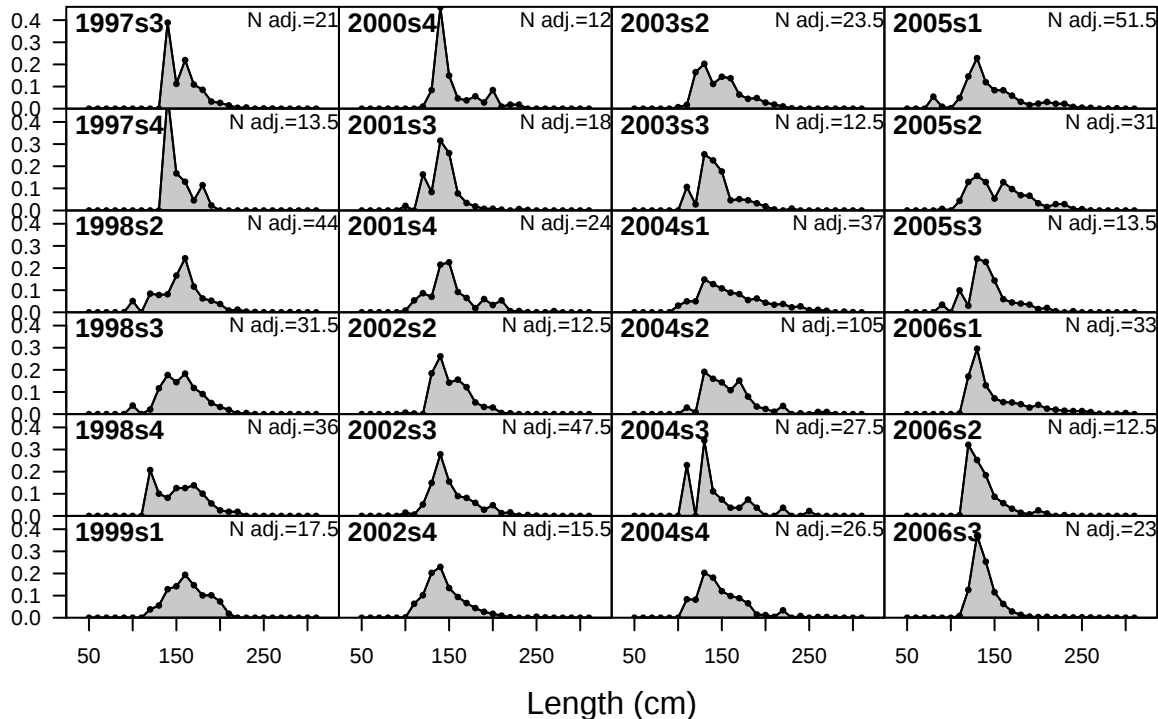
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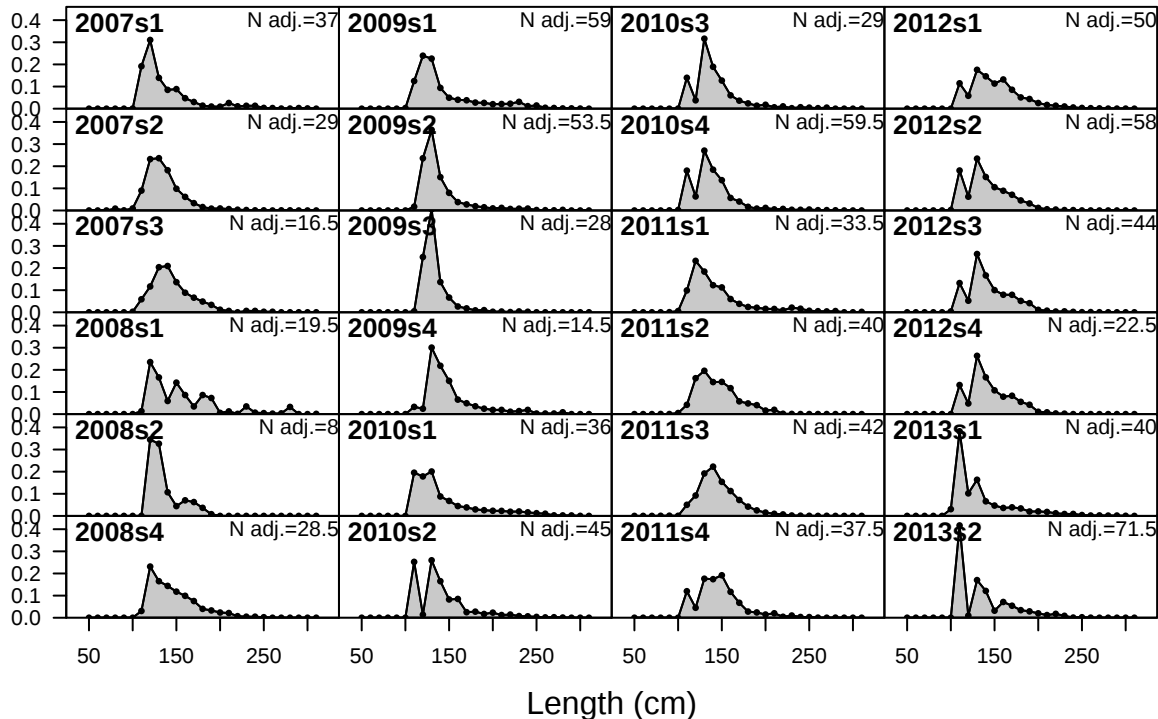
F7_ESP_A3 (whole catch)

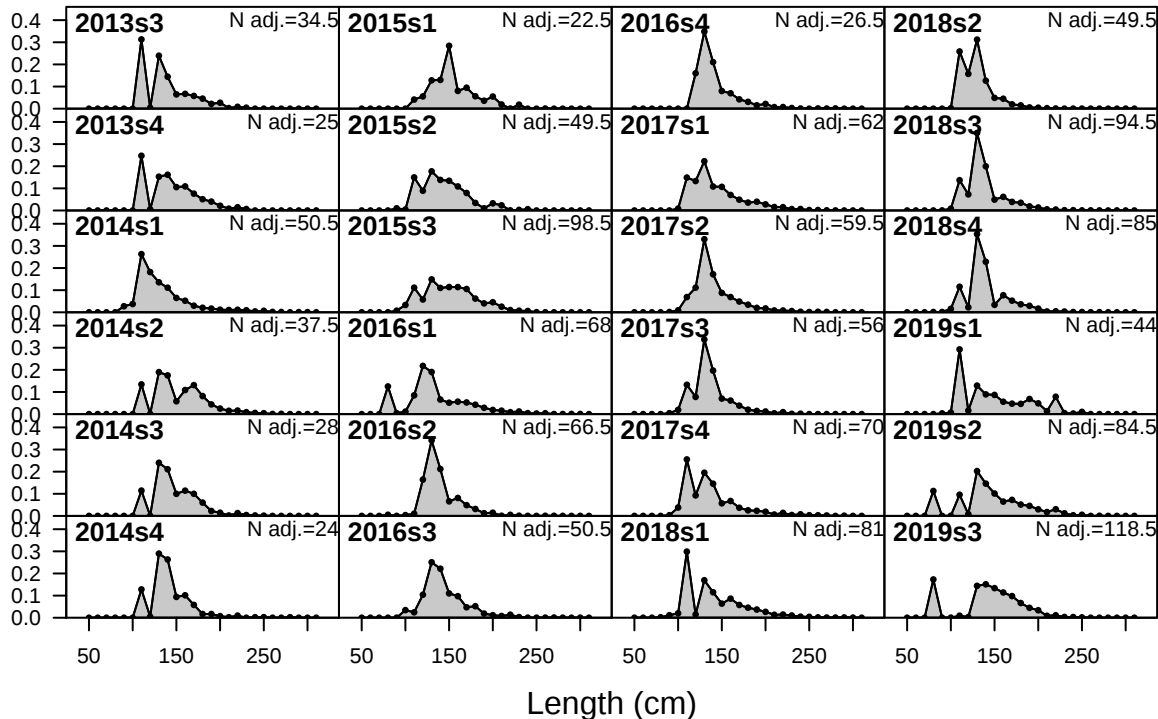


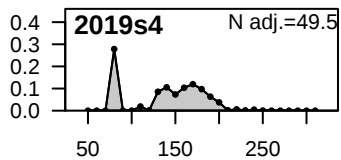
Proportion



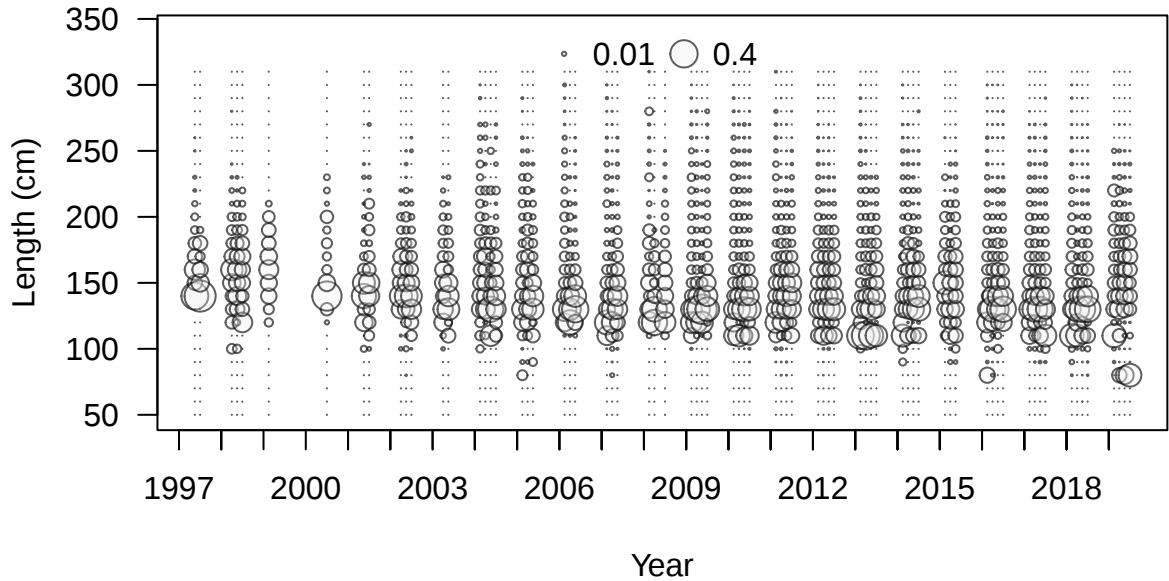
Proportion



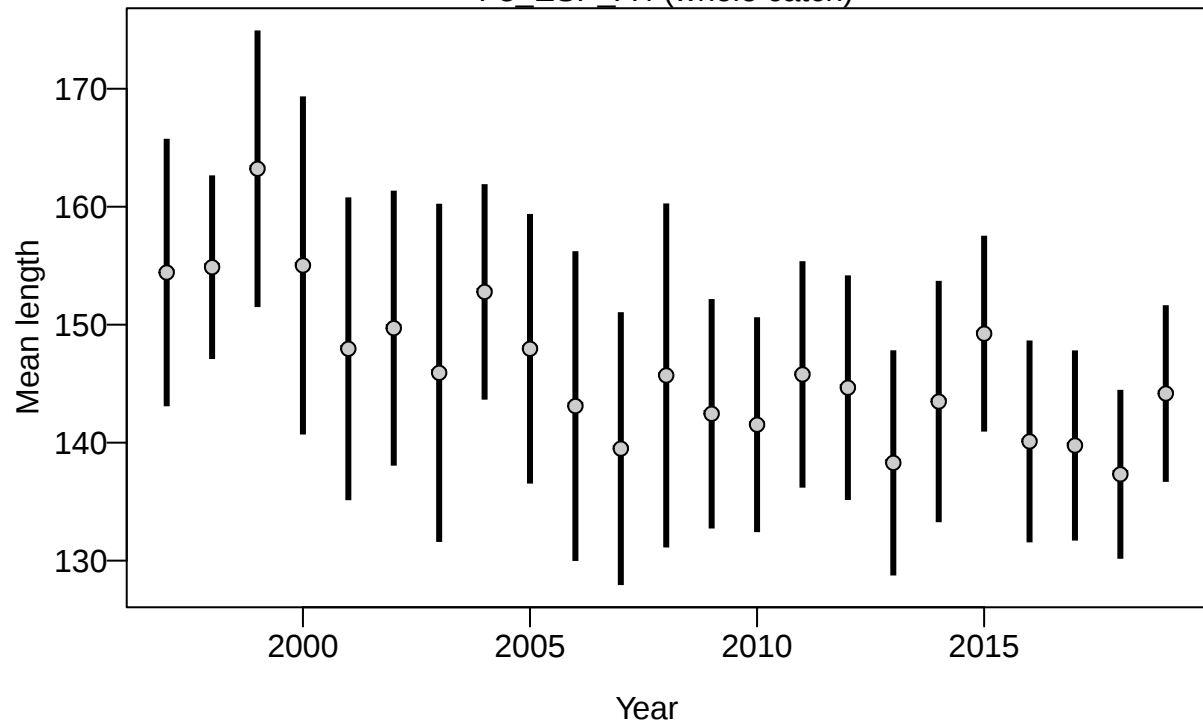


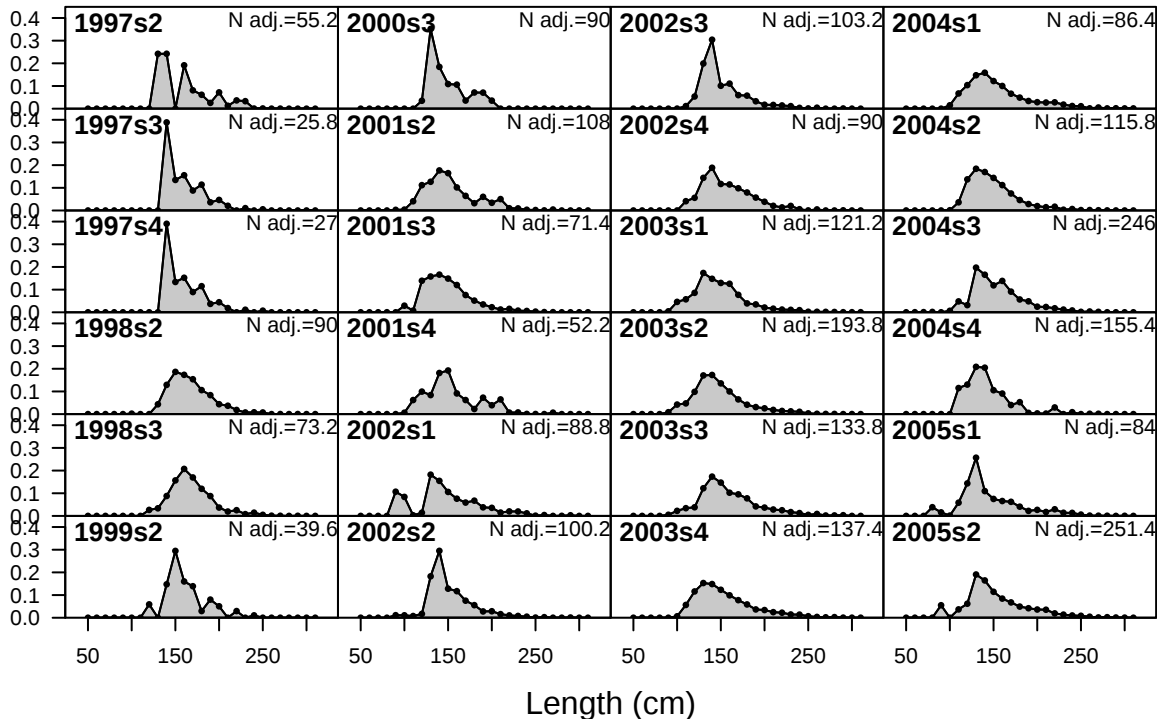


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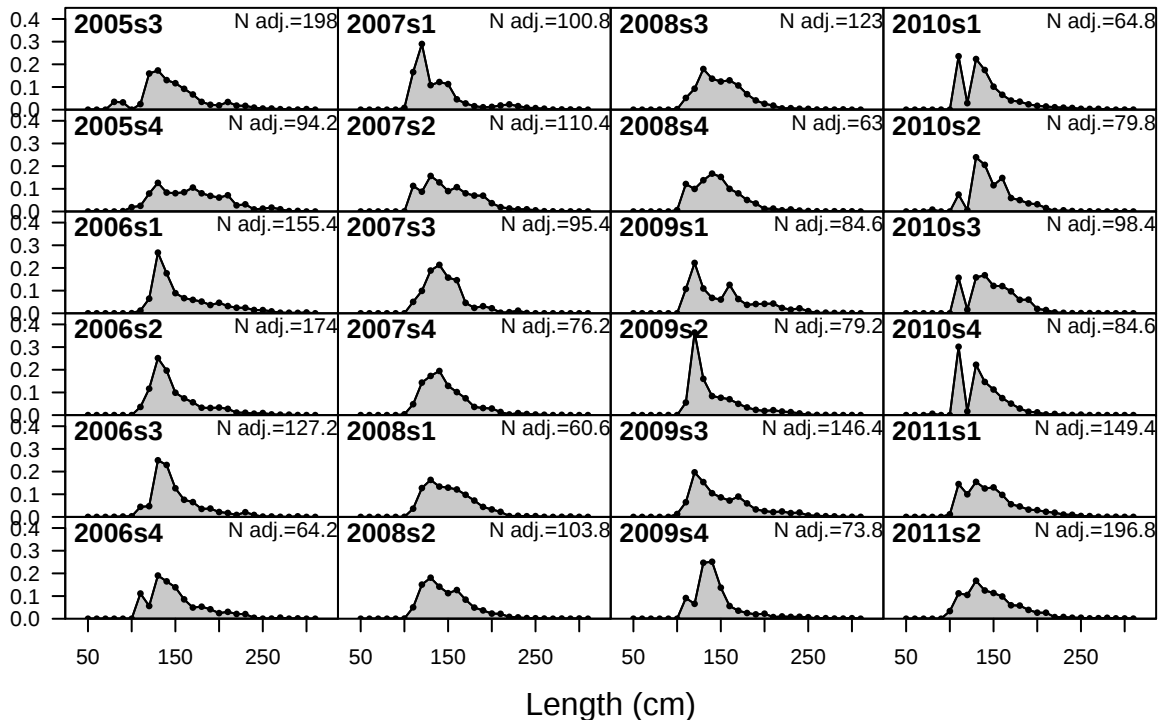


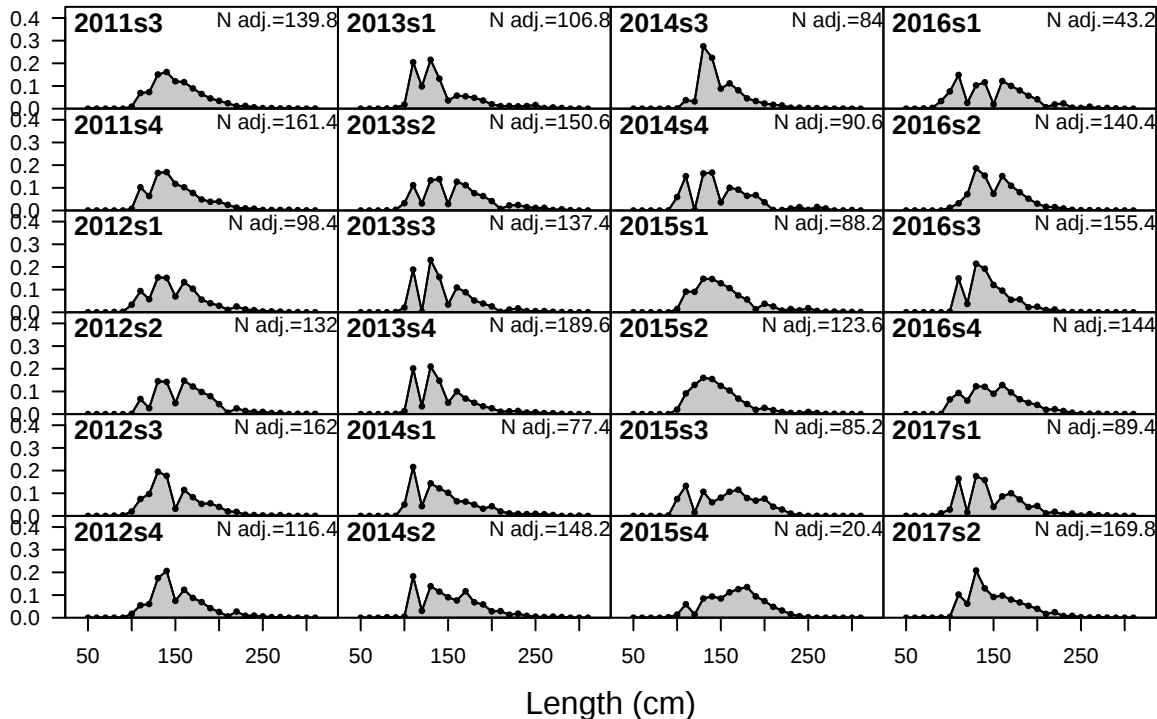
F8_ESP_A4 (whole catch)



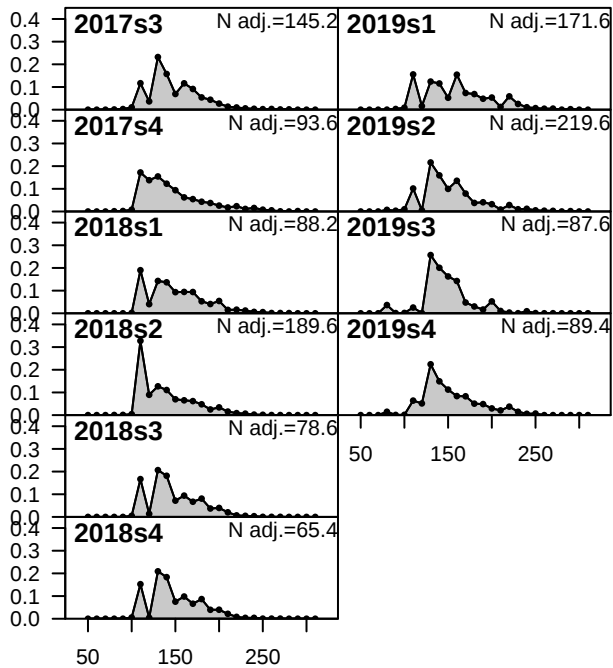


Proportion

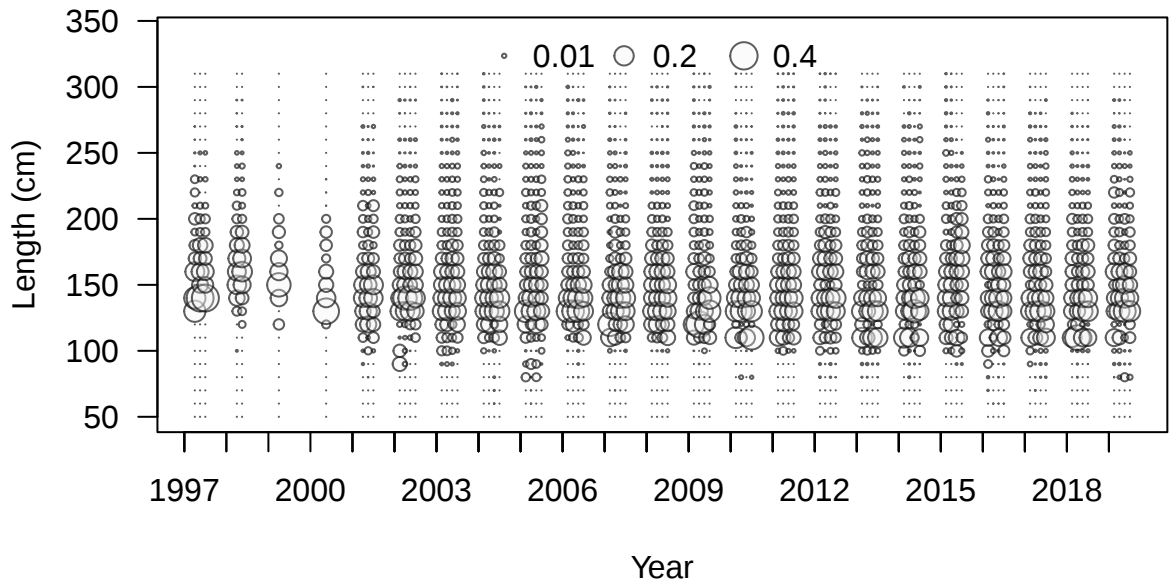




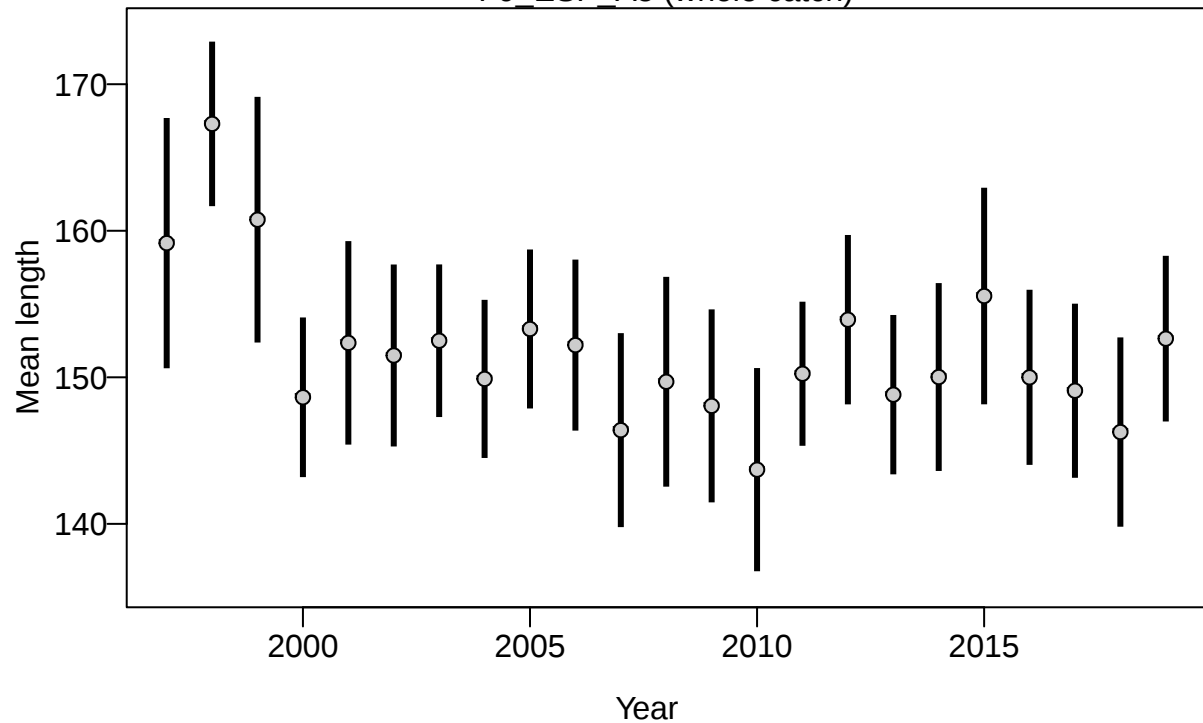
Proportion



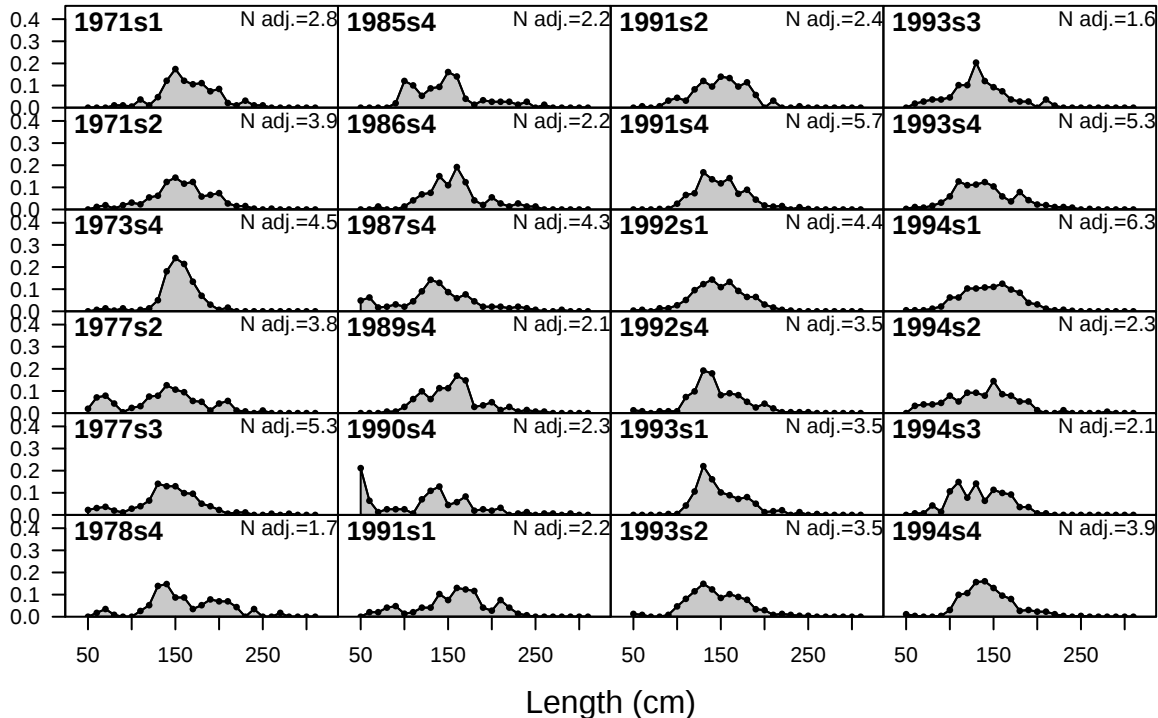
Length (cm)



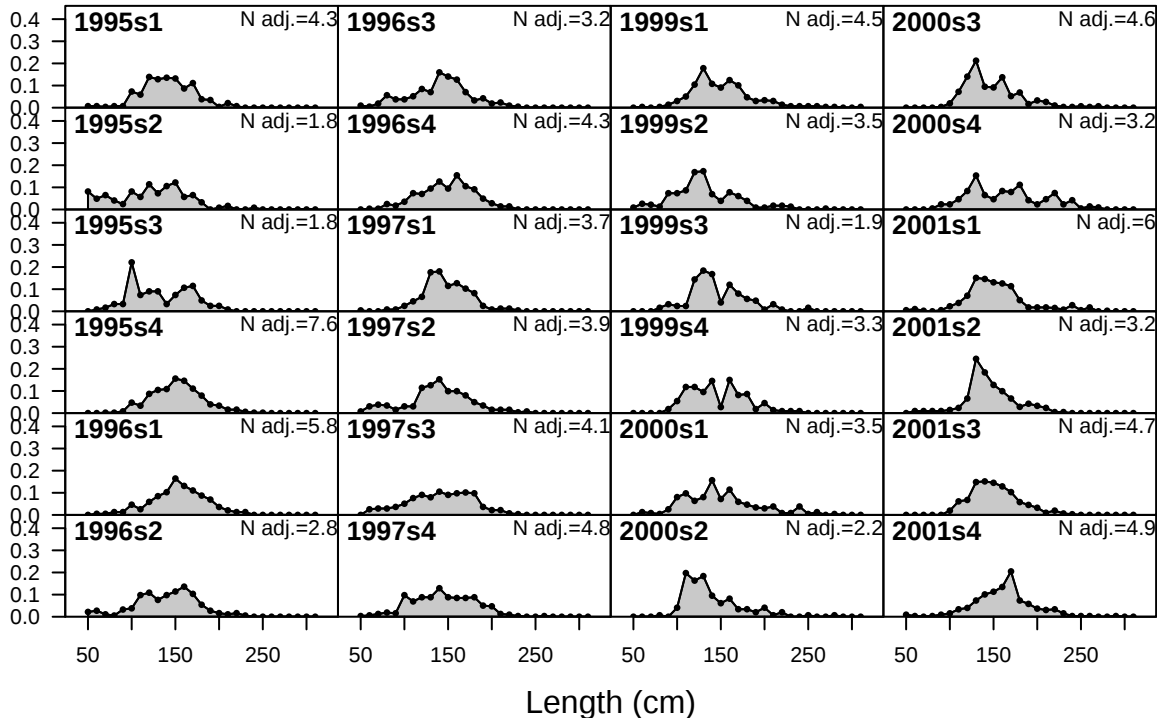
F9_ESP_A5 (whole catch)

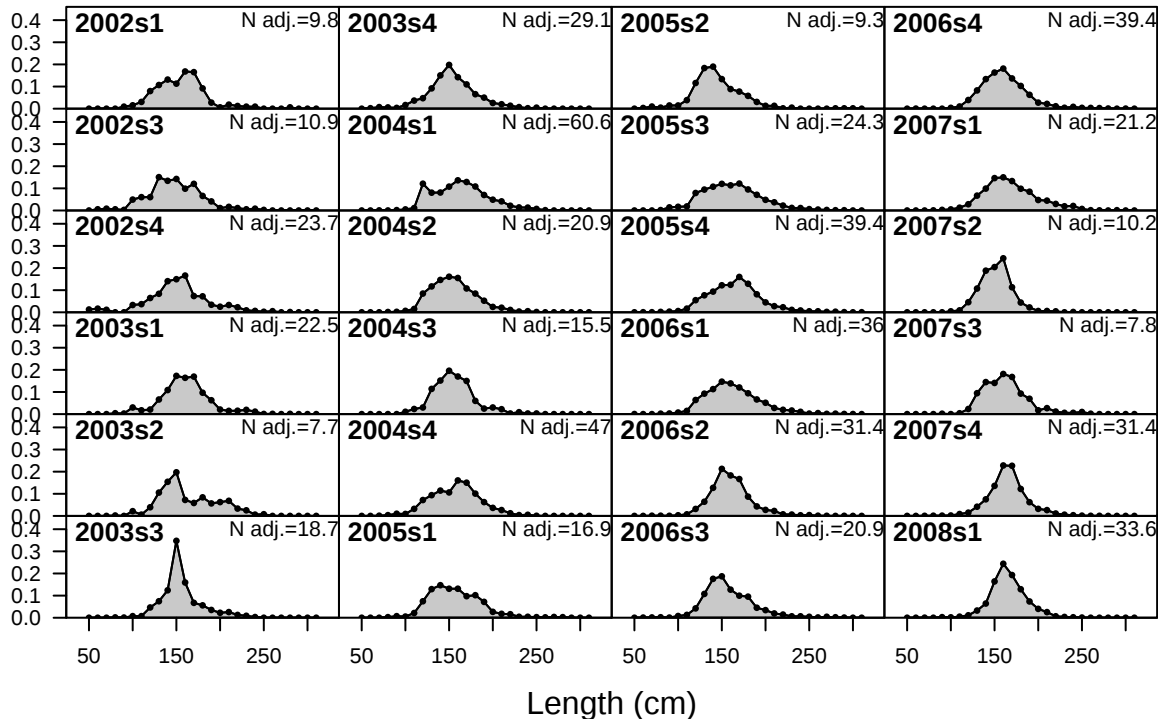


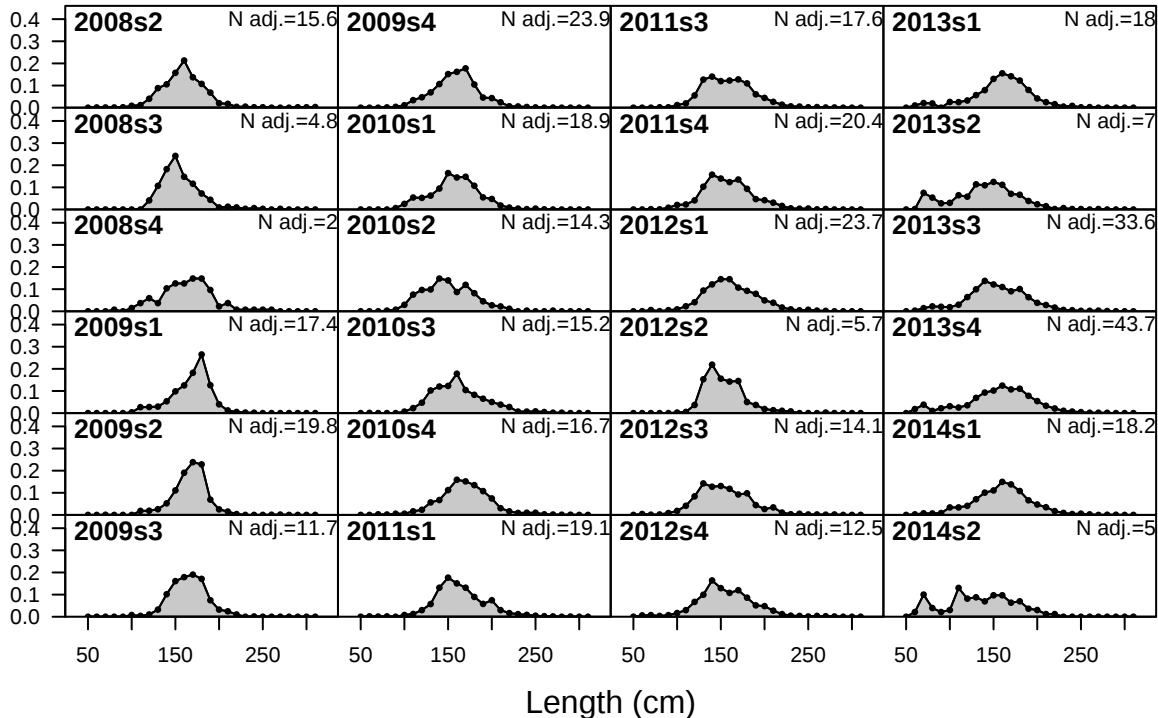
Proportion



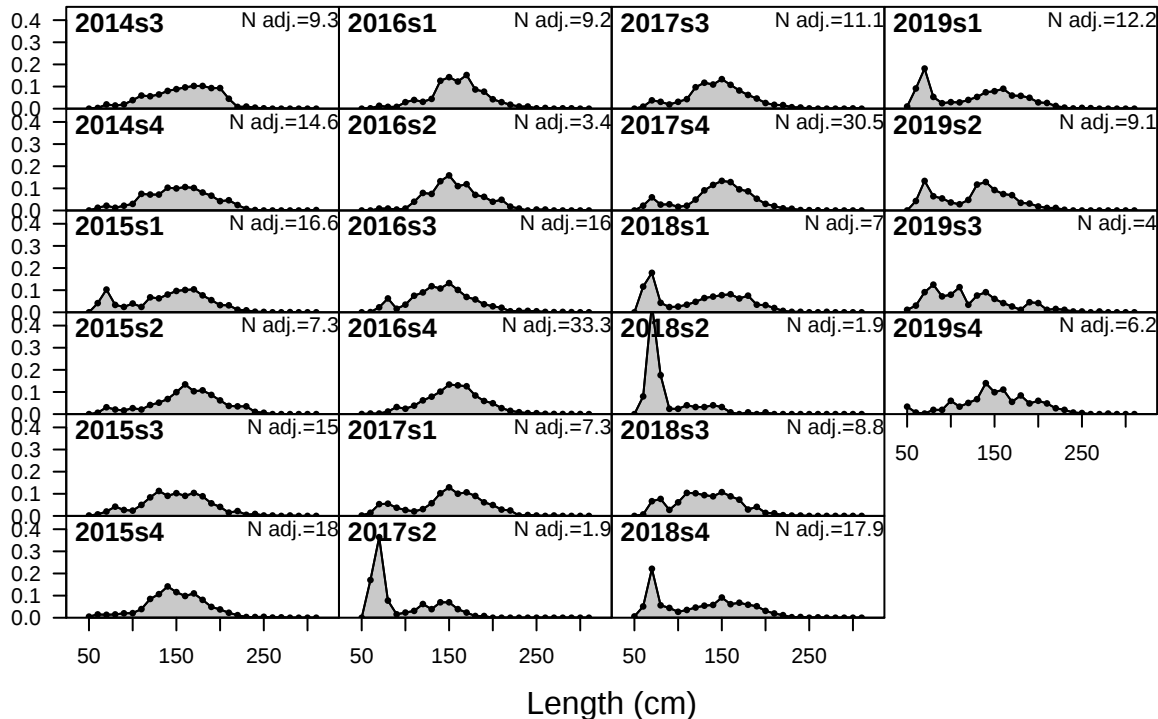
Proportion

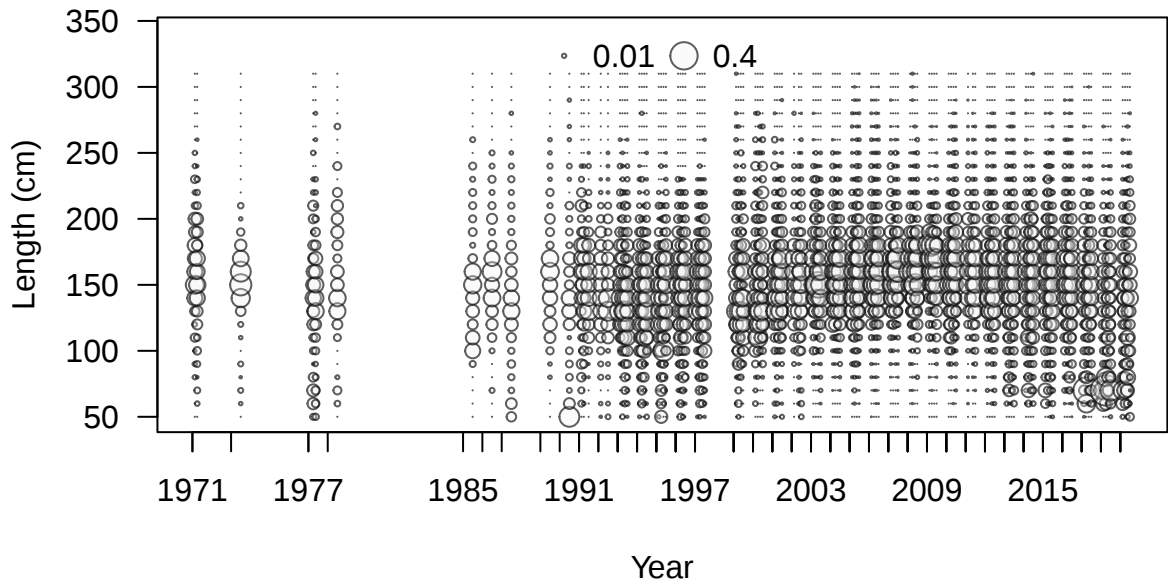




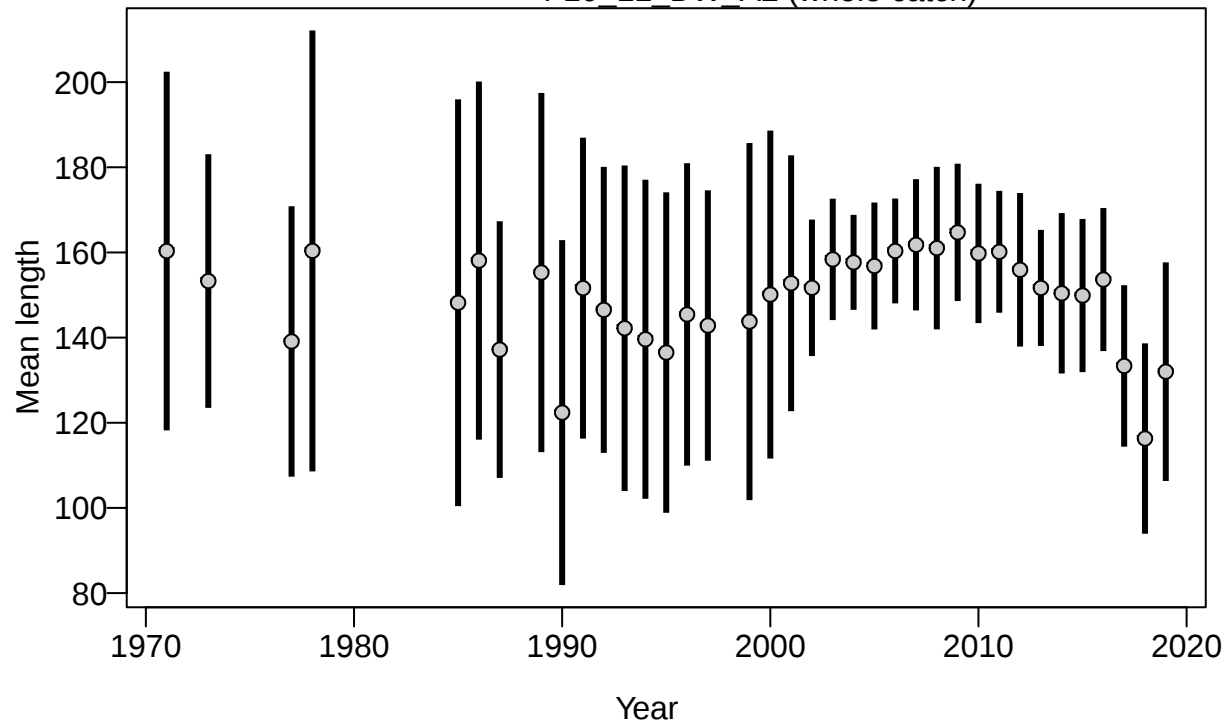


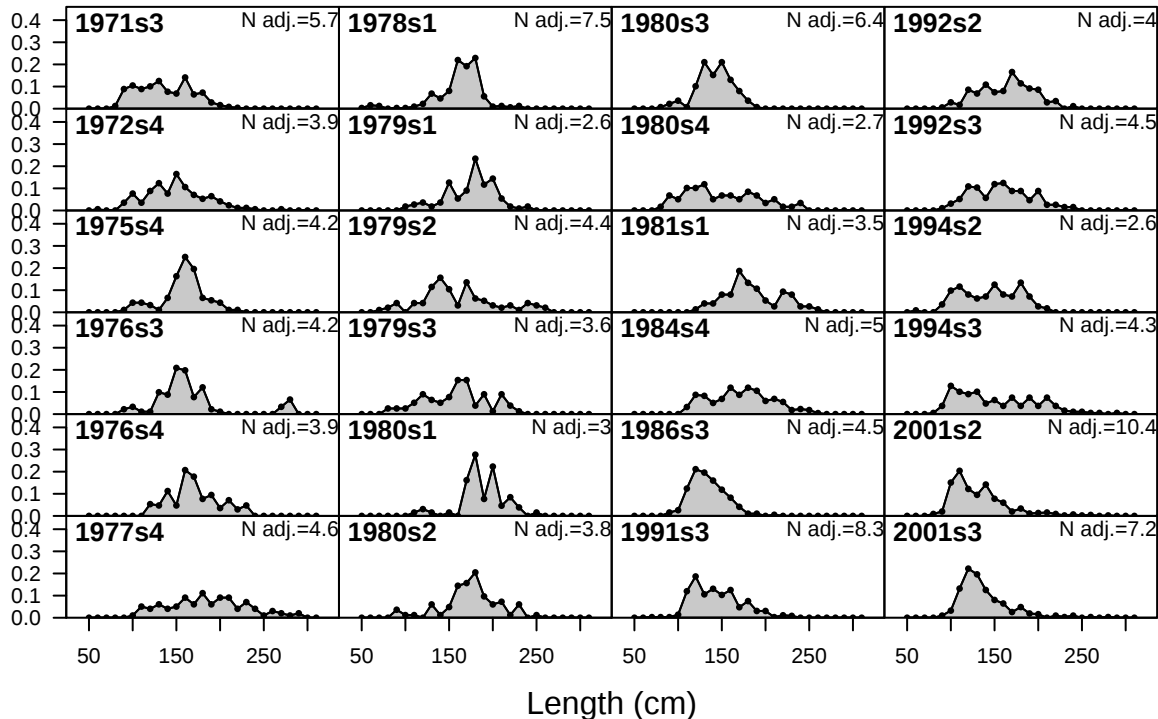
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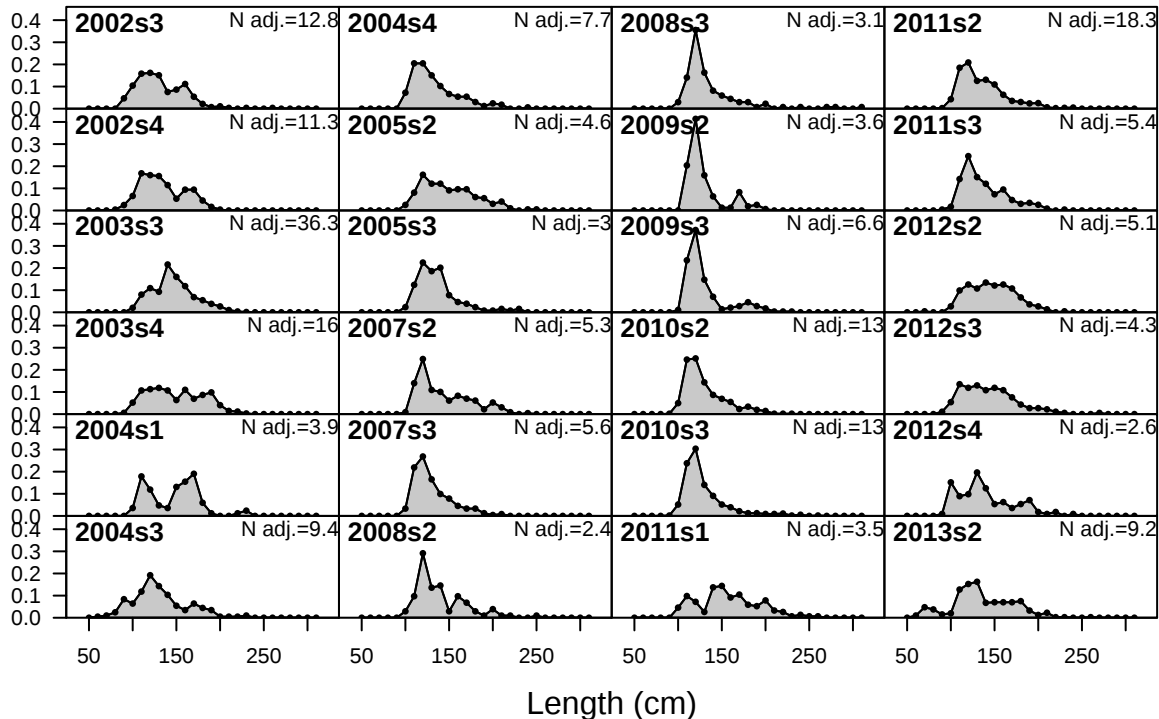




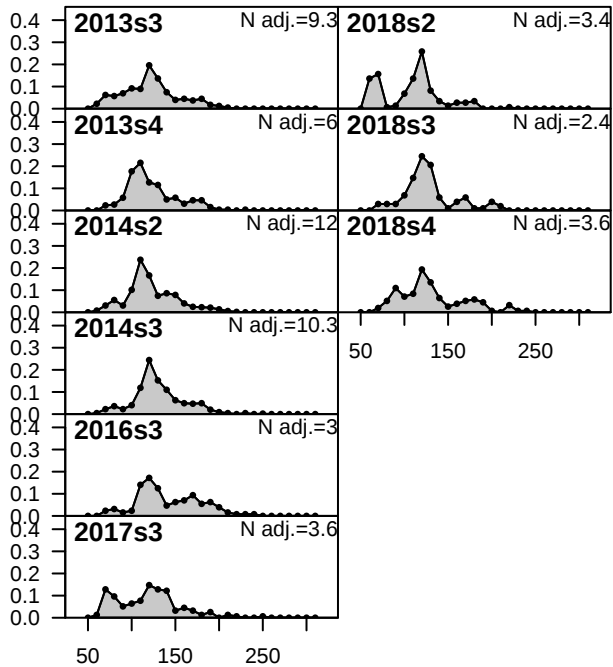
F10_LL_DW_A2 (whole catch)



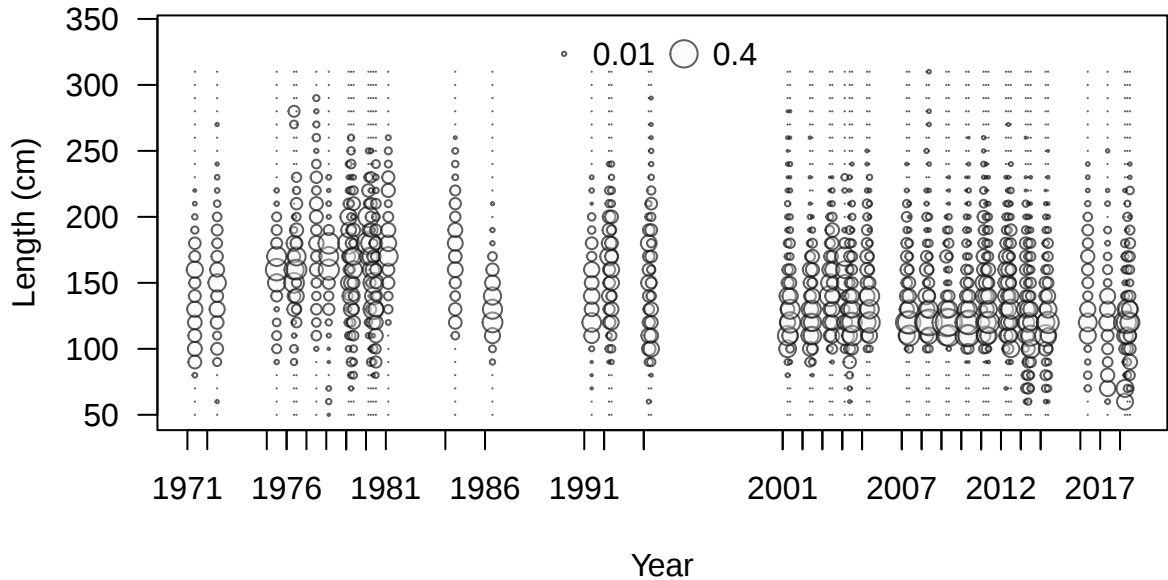




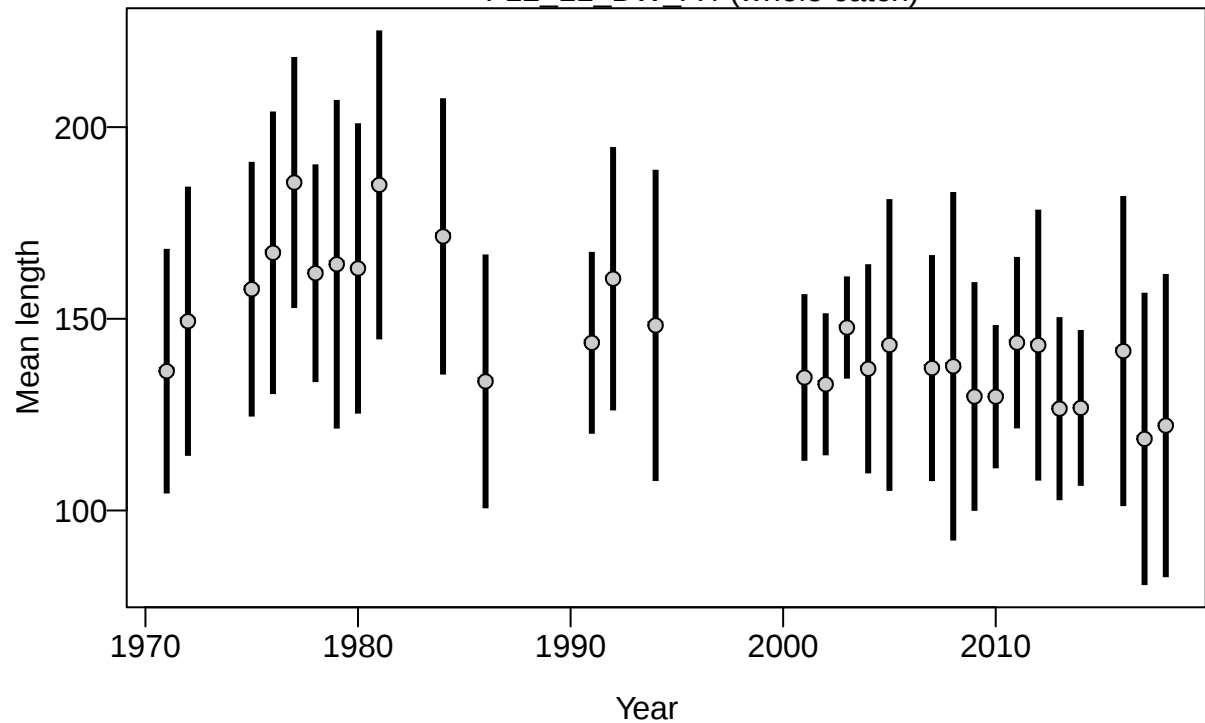
Proportion

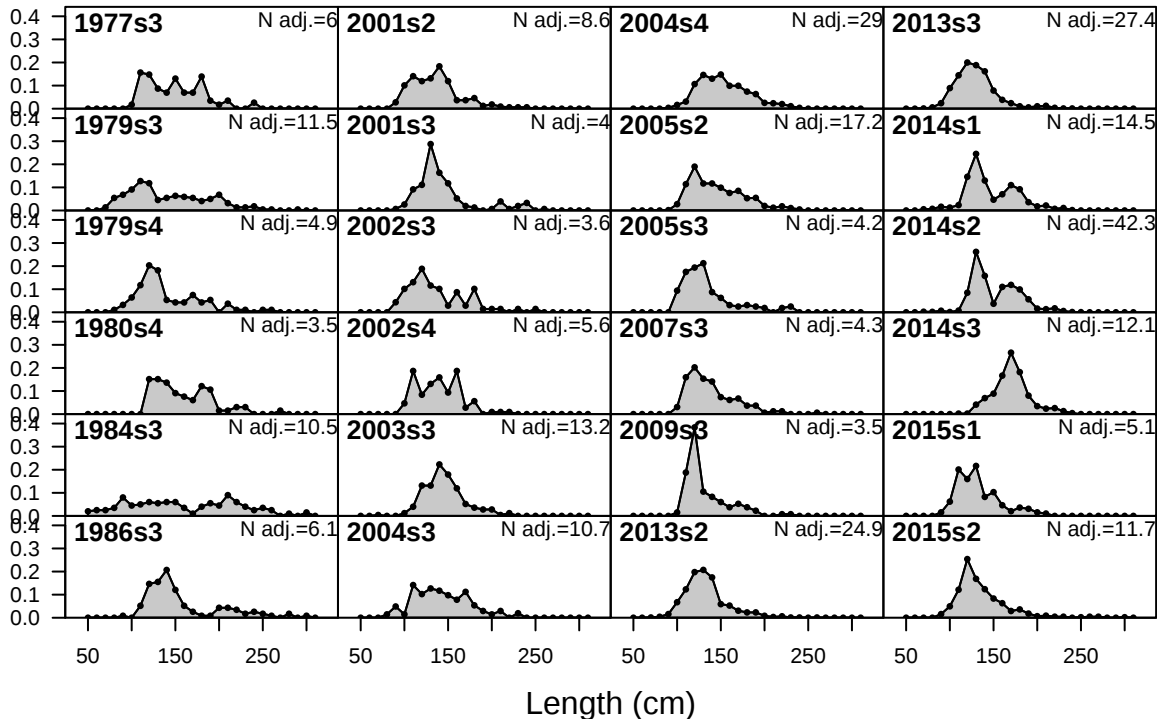


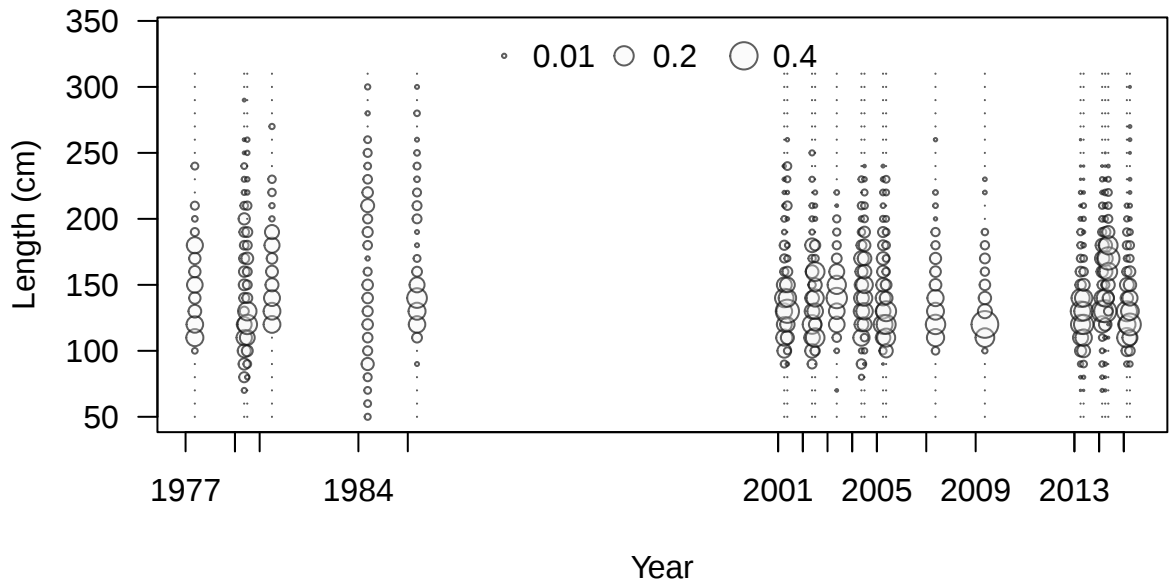
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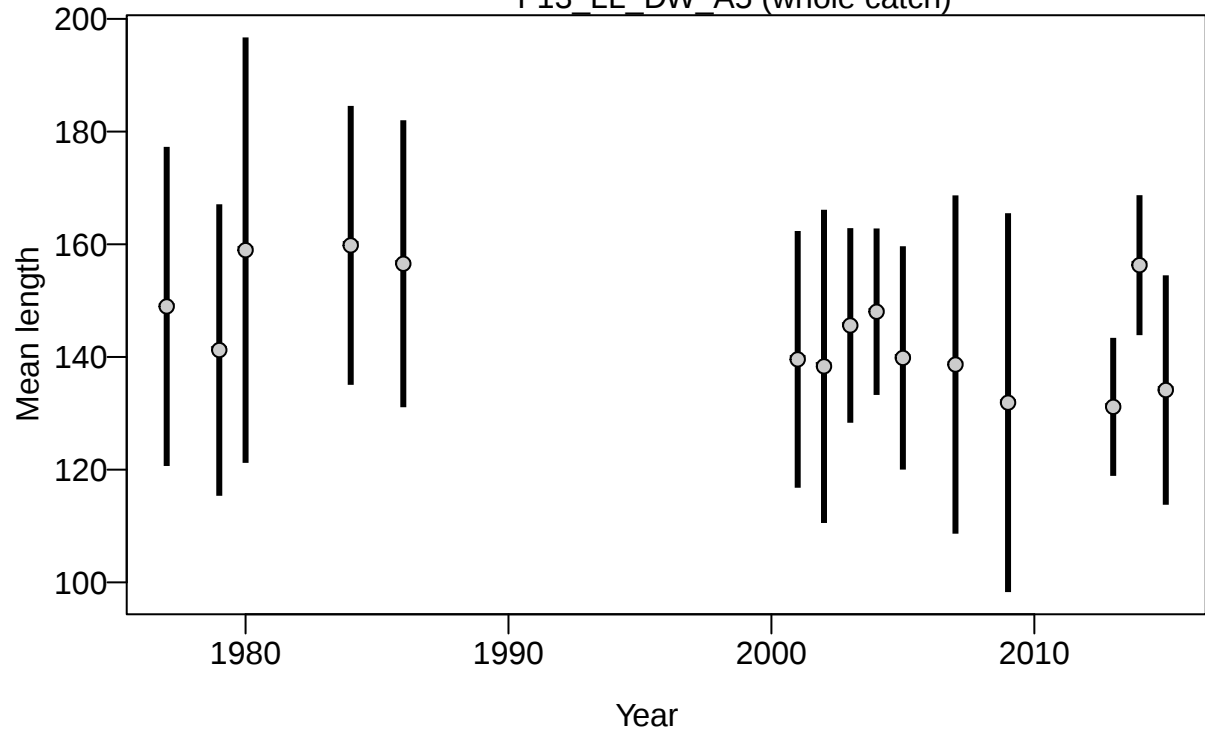
F12_LL_DW_A4 (whole catch)



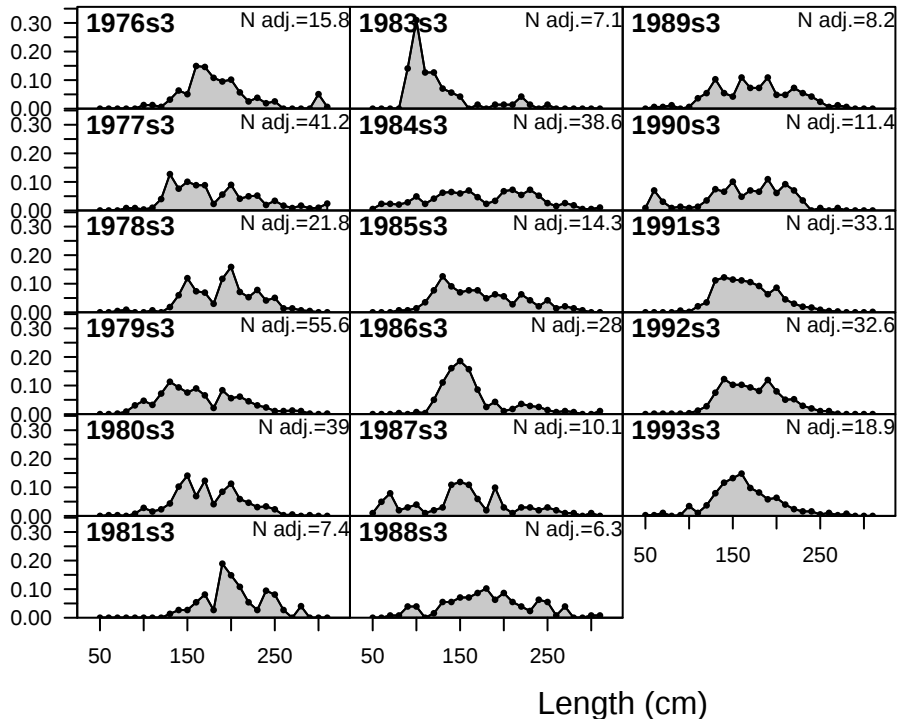


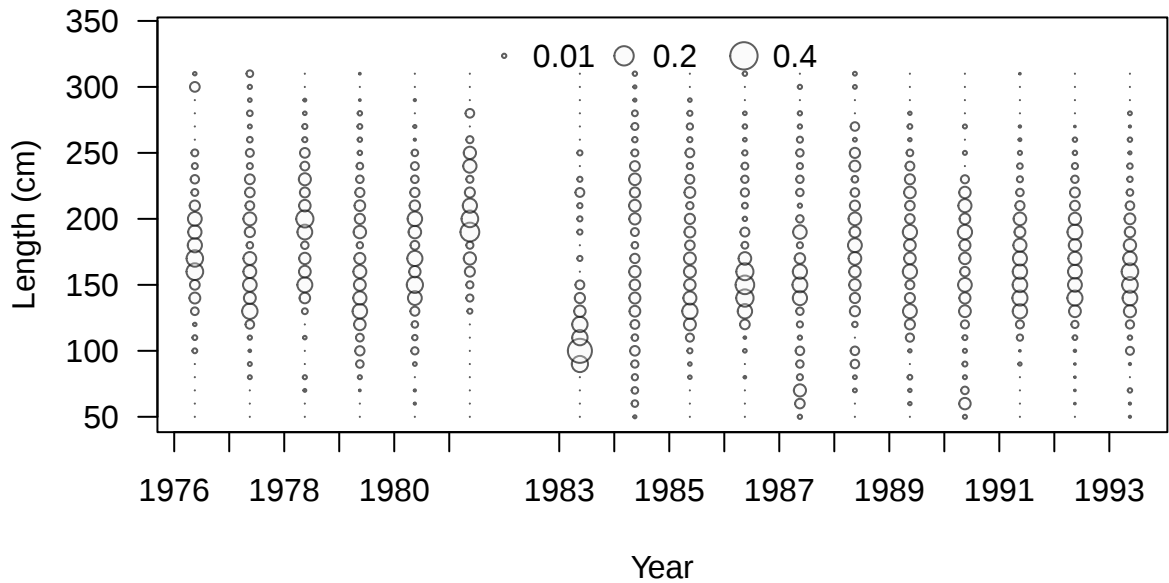


F13_LL_DW_A5 (whole catch)

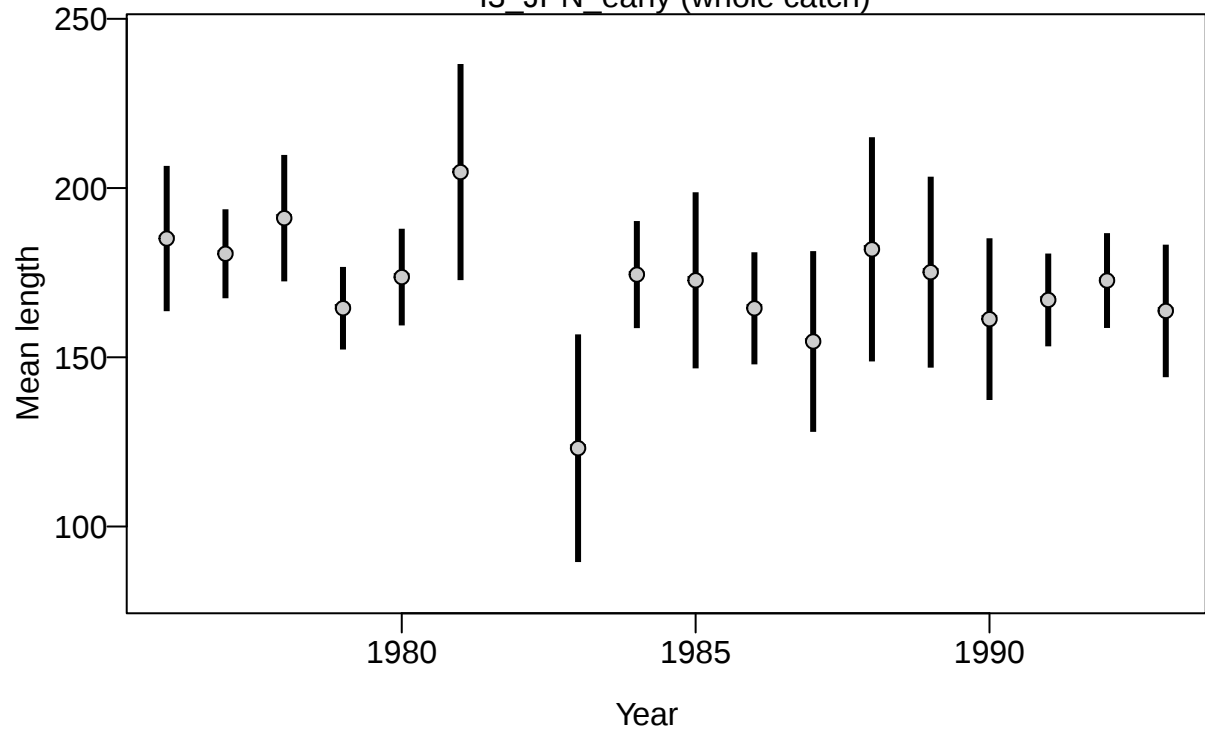


Proportion

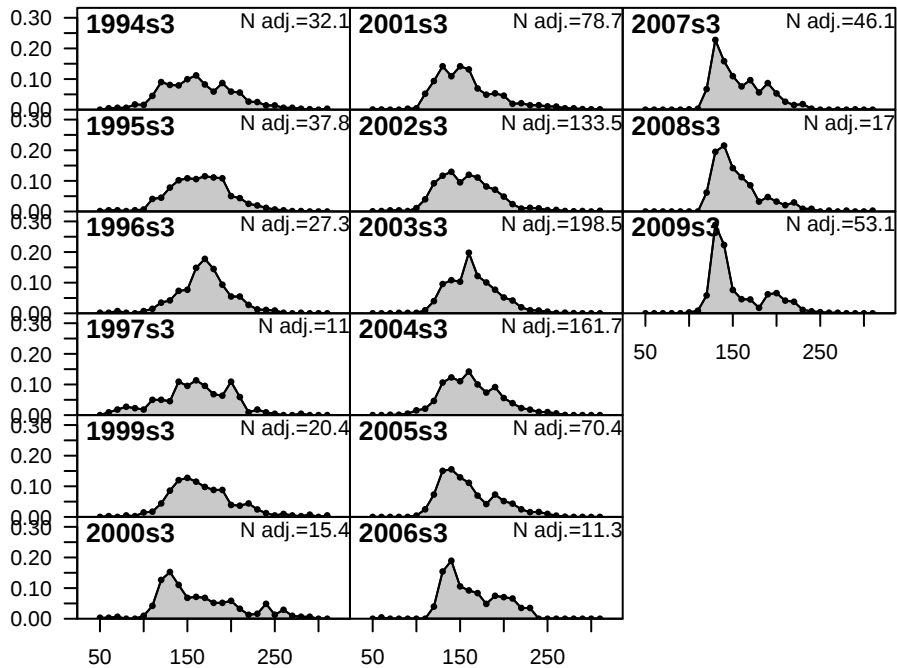




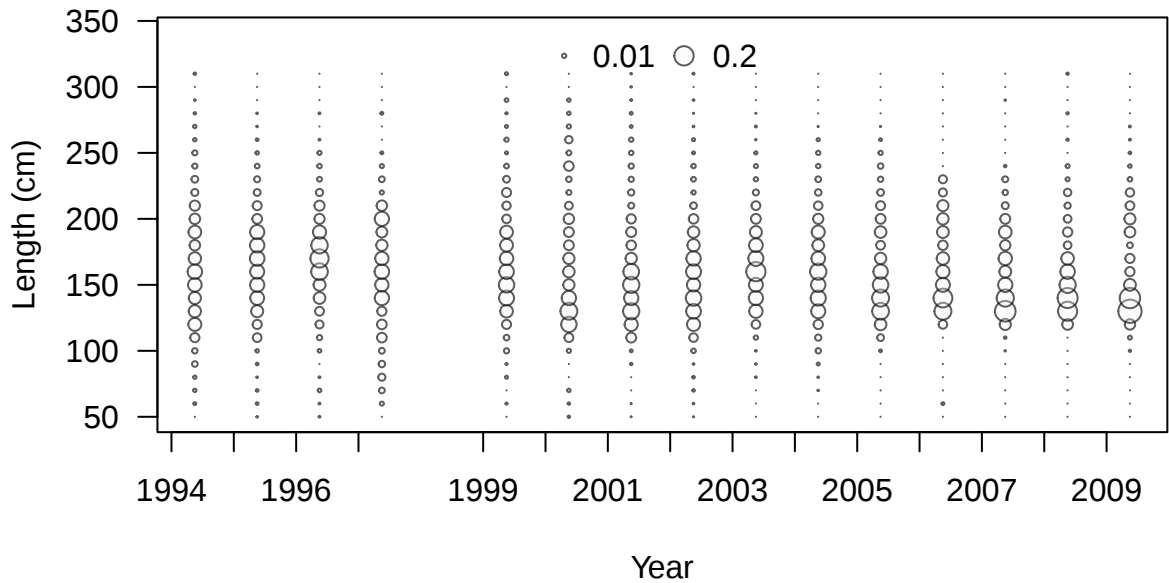
I3_JPN_early (whole catch)



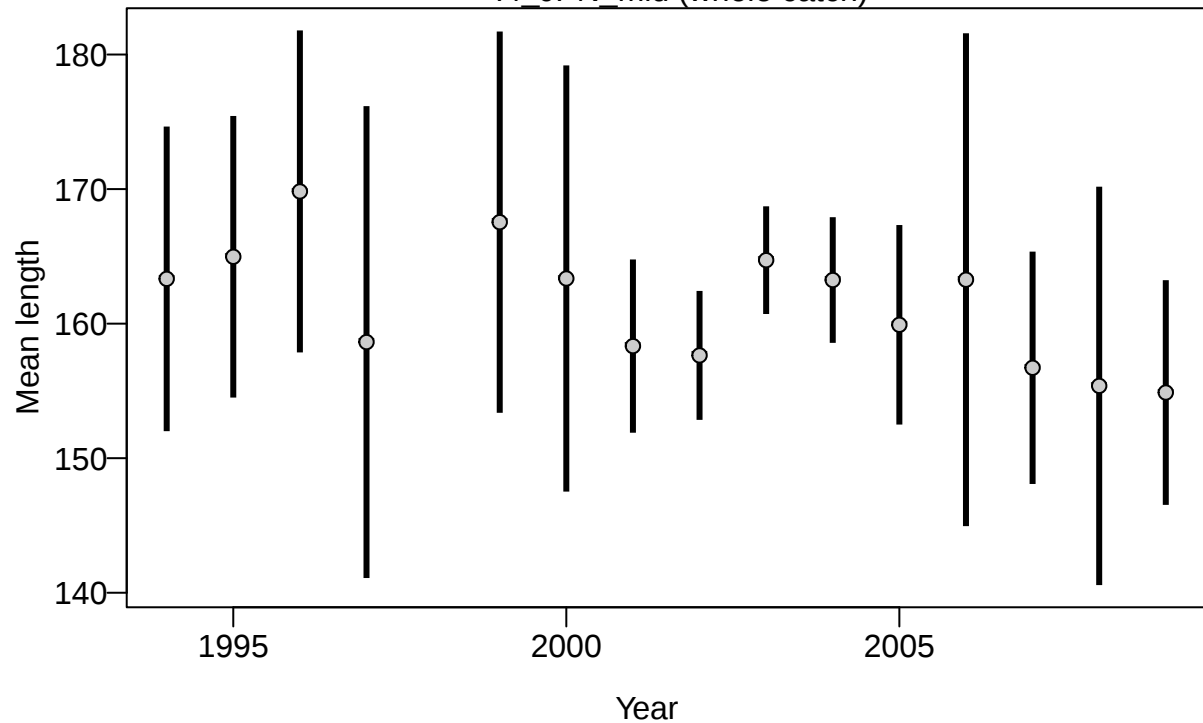
Proportion



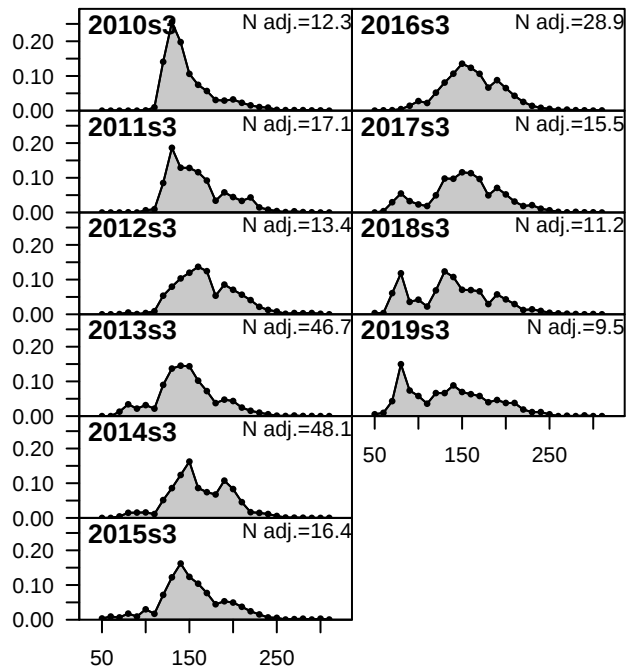
Length (cm)



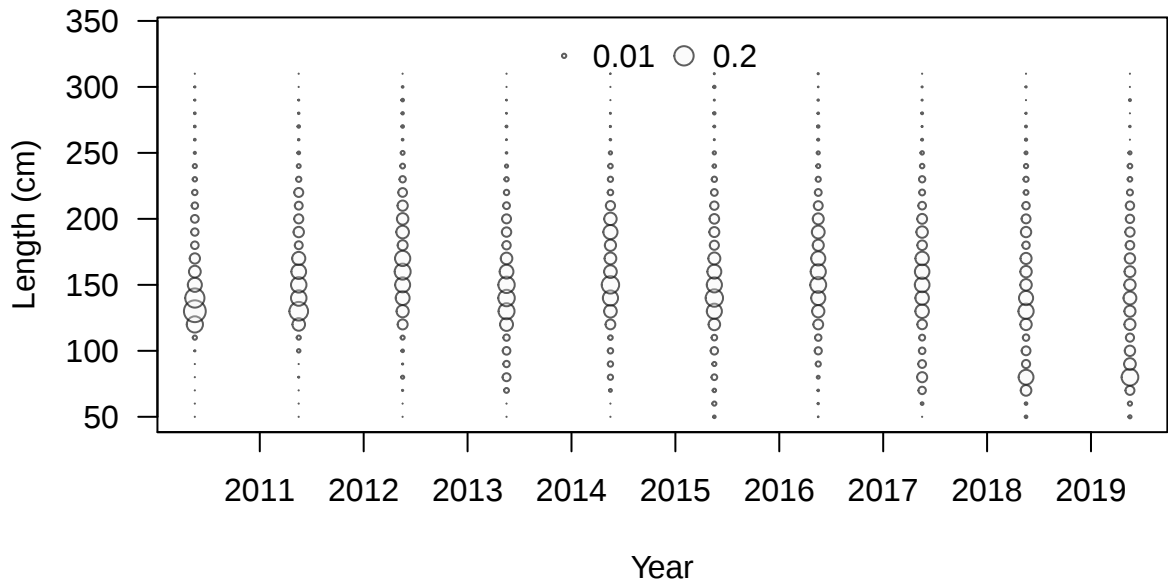
l4_JPN_mid (whole catch)



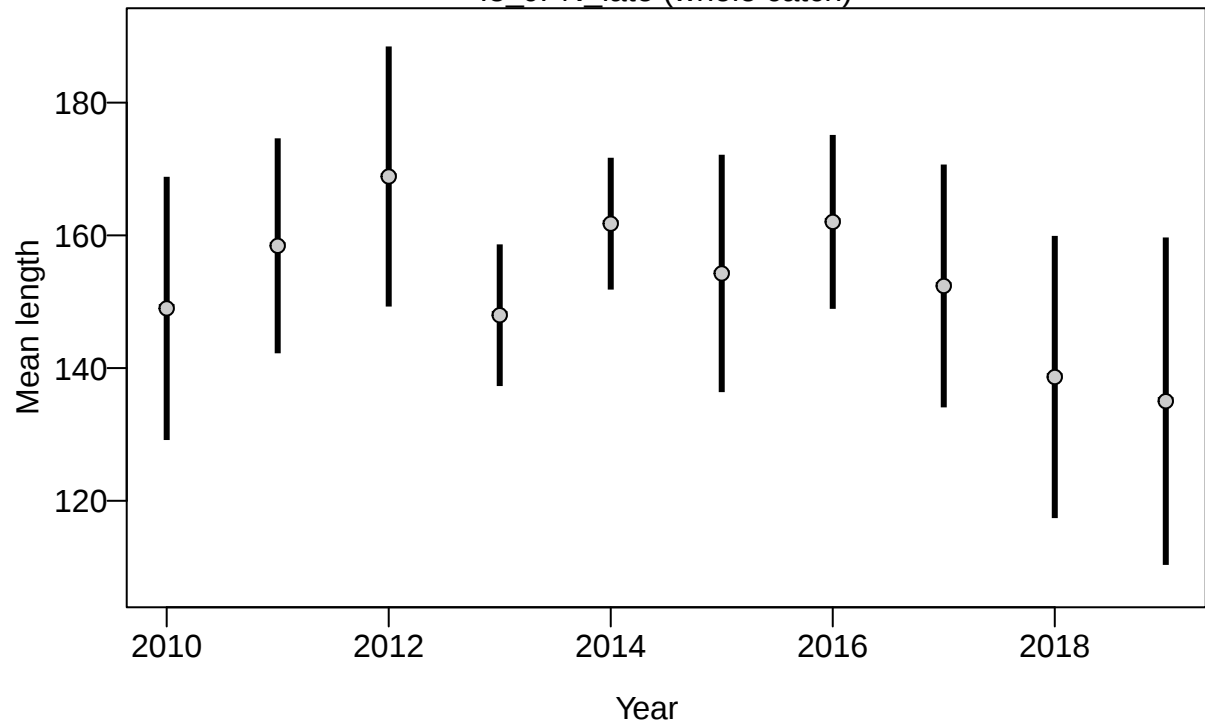
Proportion



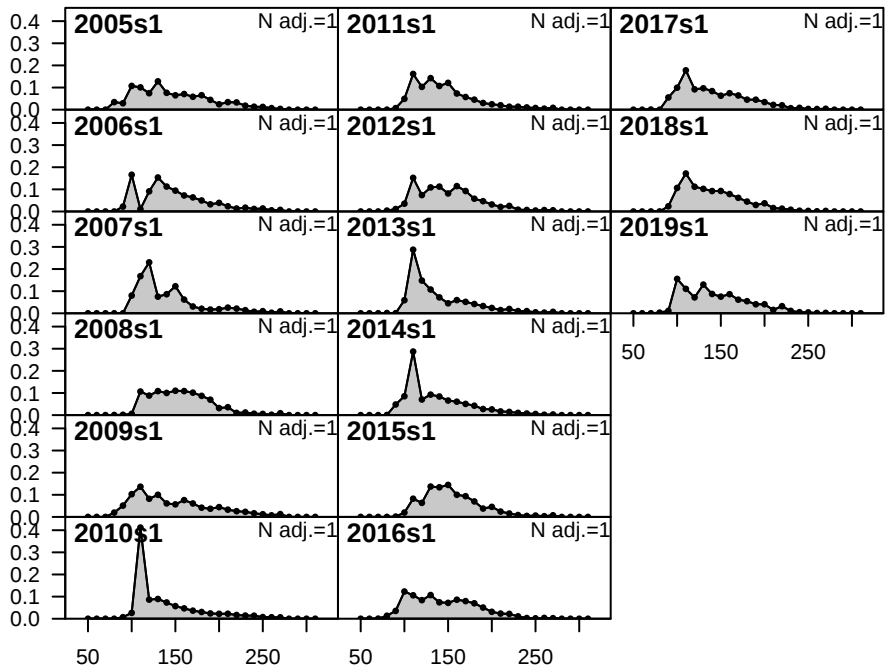
Length (cm)



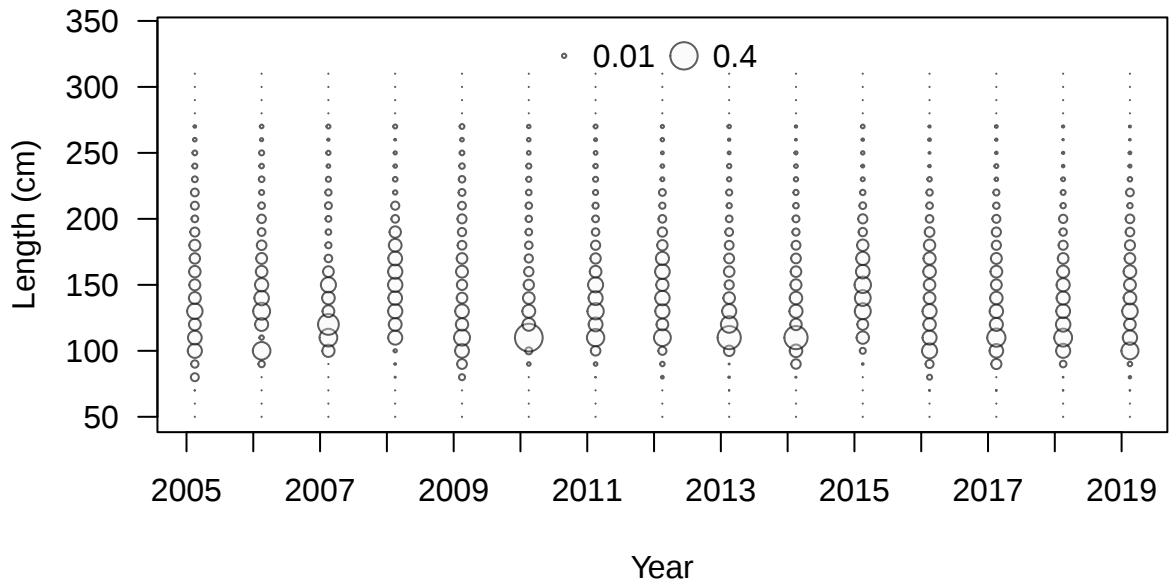
I5_JPN_late (whole catch)



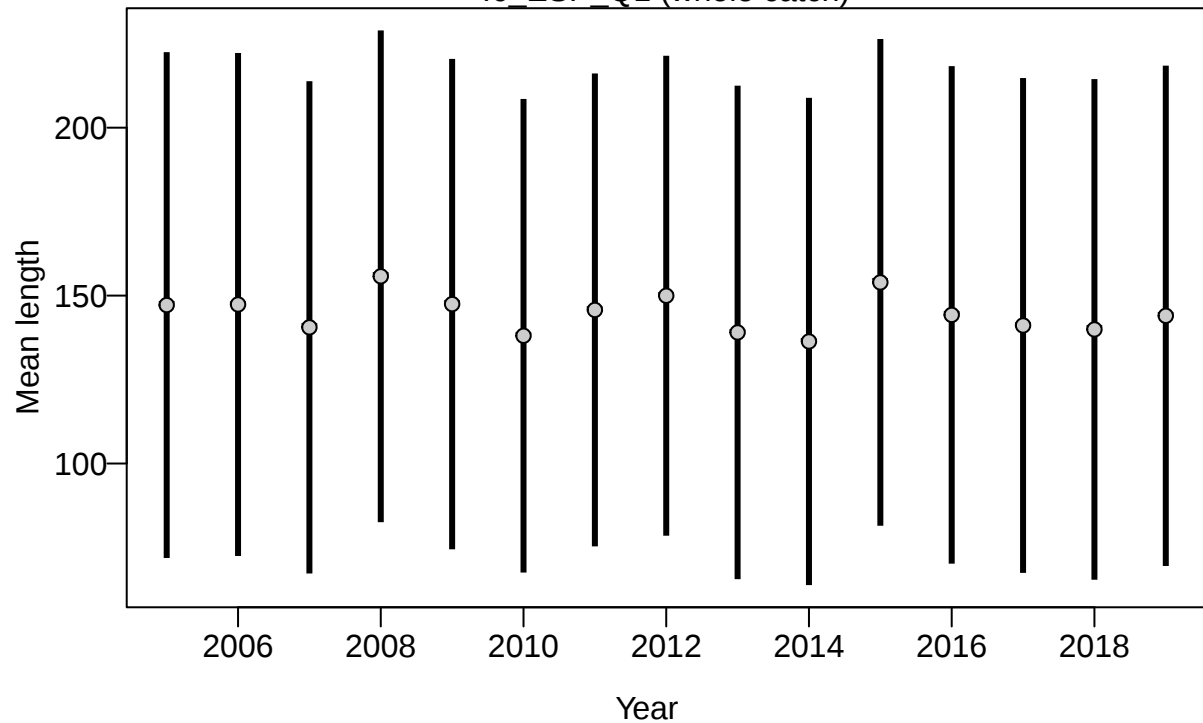
Proportion



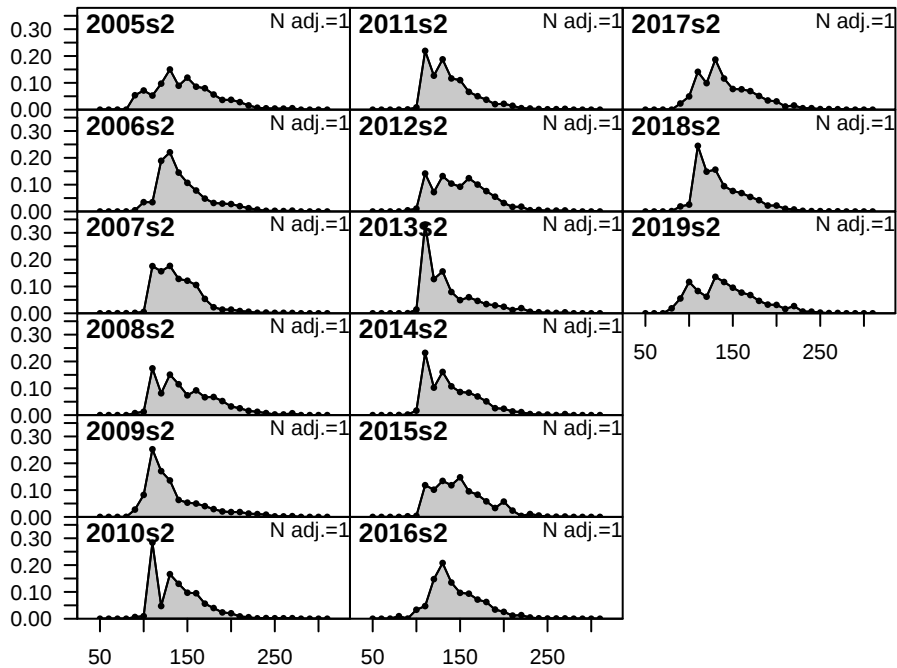
Length (cm)



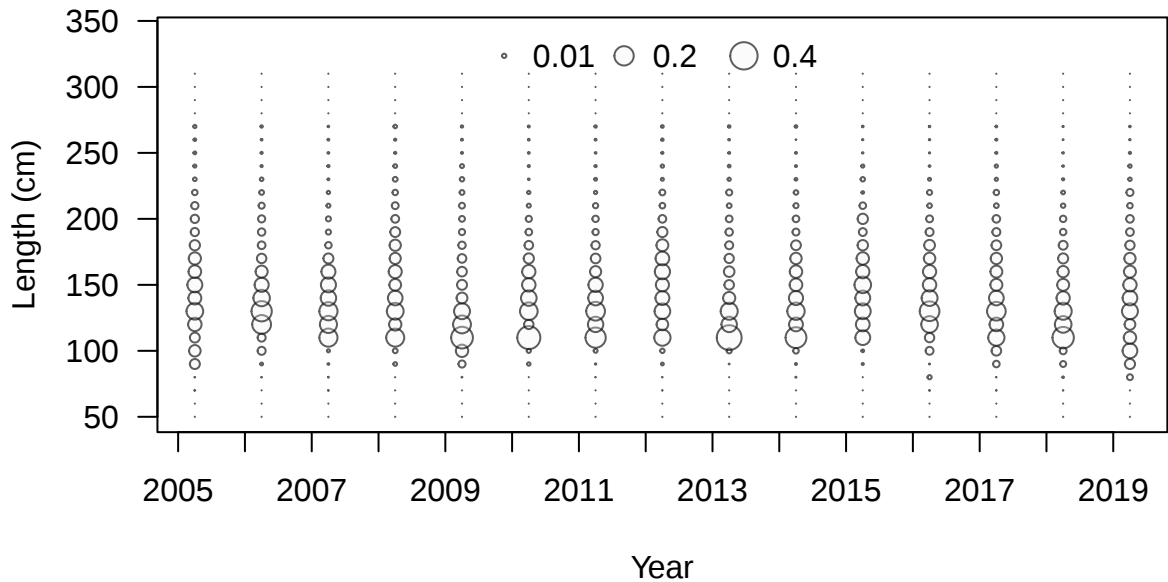
I6_ESP_Q1 (whole catch)



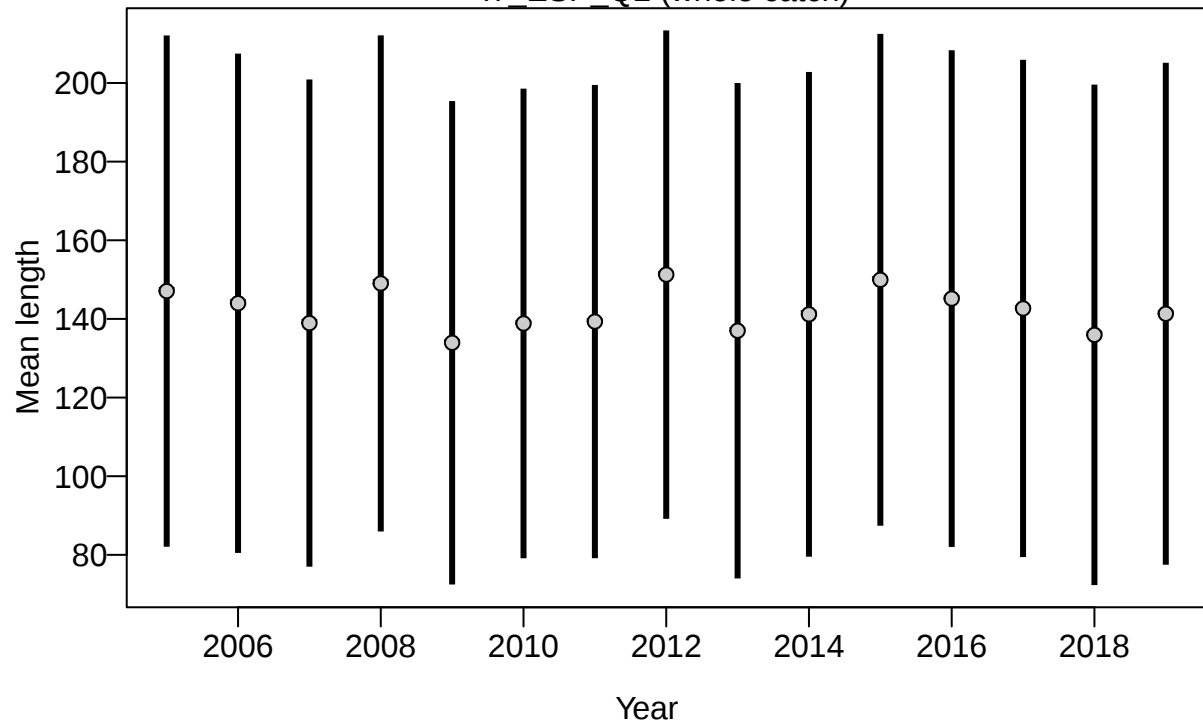
Proportion



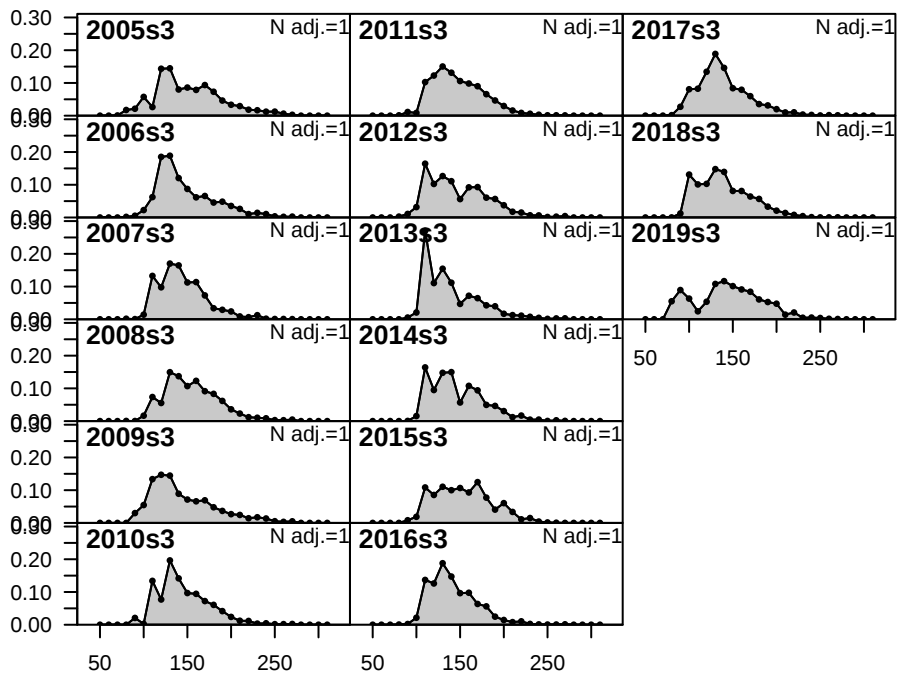
Length (cm)



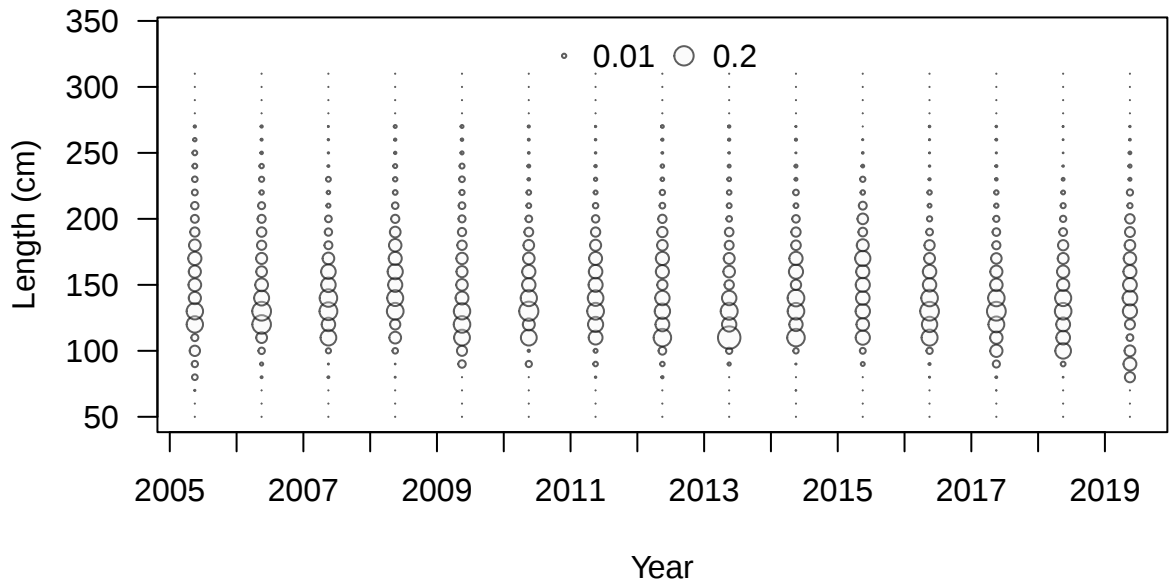
I7_ESP_Q2 (whole catch)



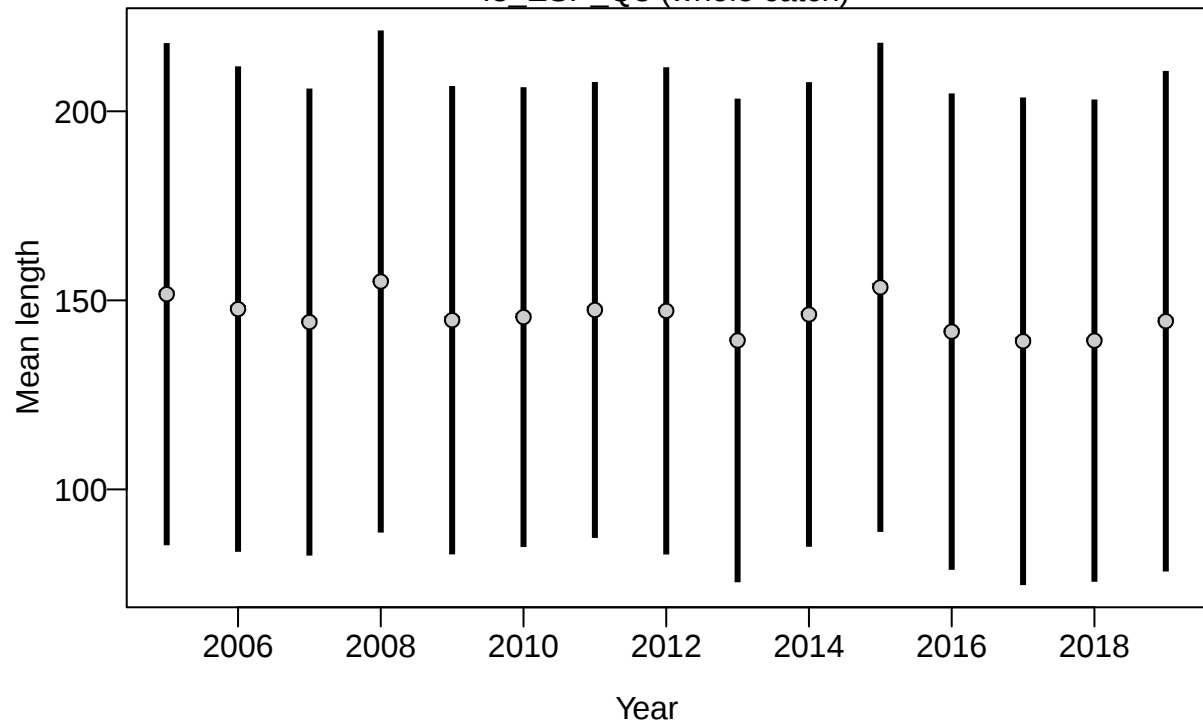
Proportion



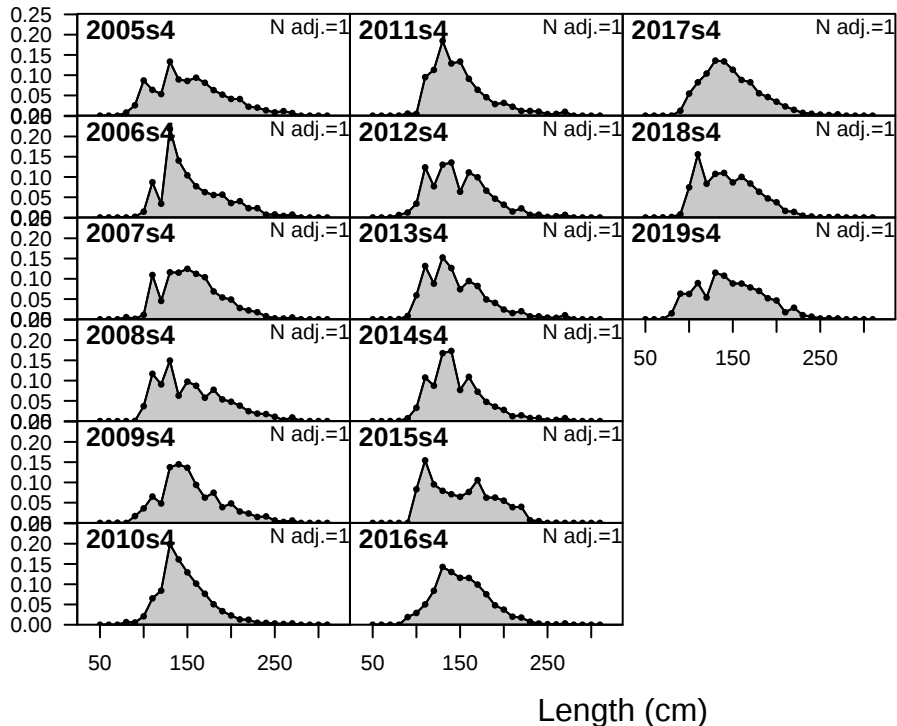
Length (cm)

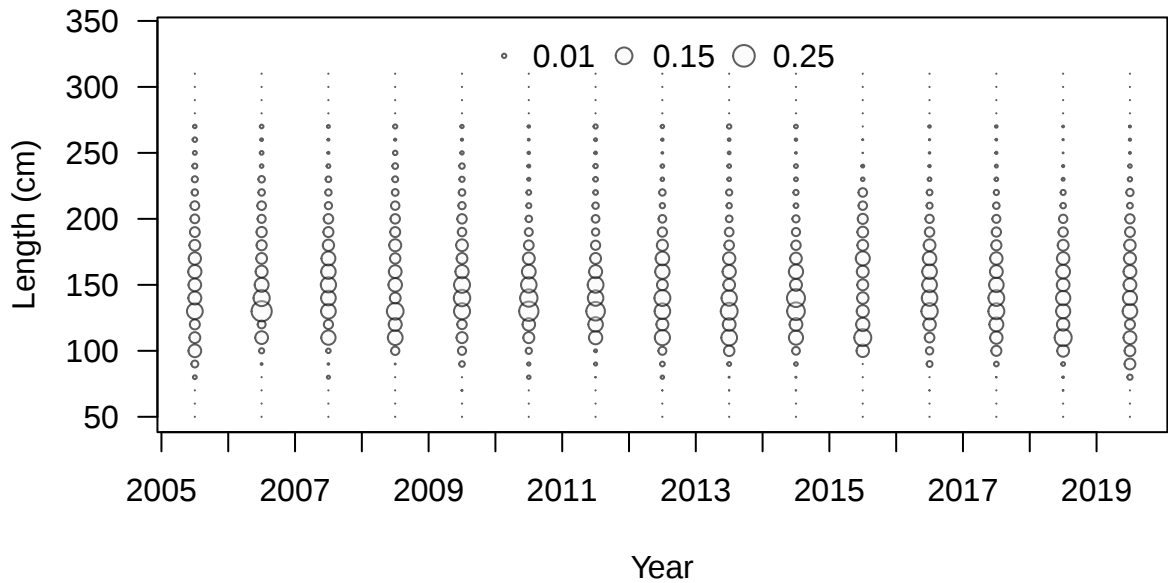


I8_ESP_Q3 (whole catch)

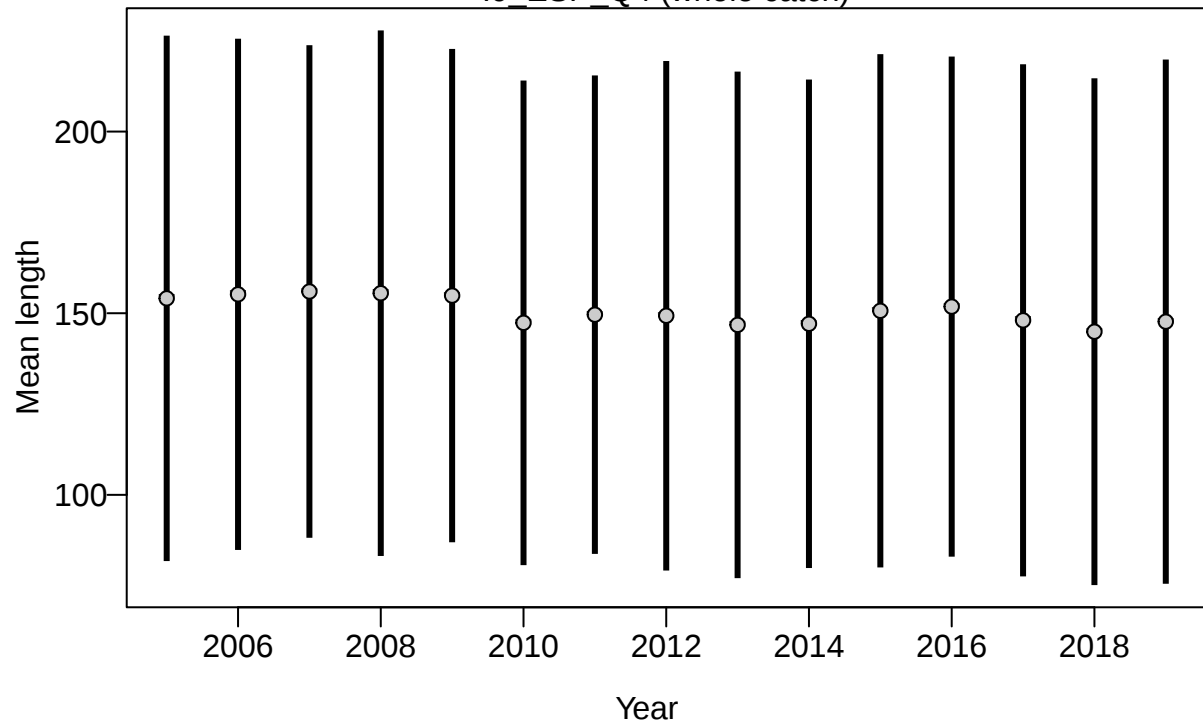


Proportion

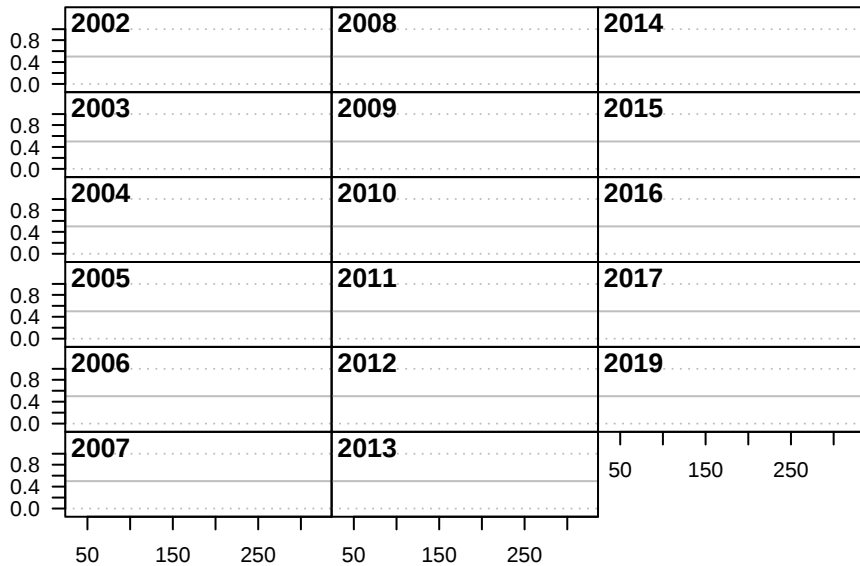




I9_ESP_Q4 (whole catch)

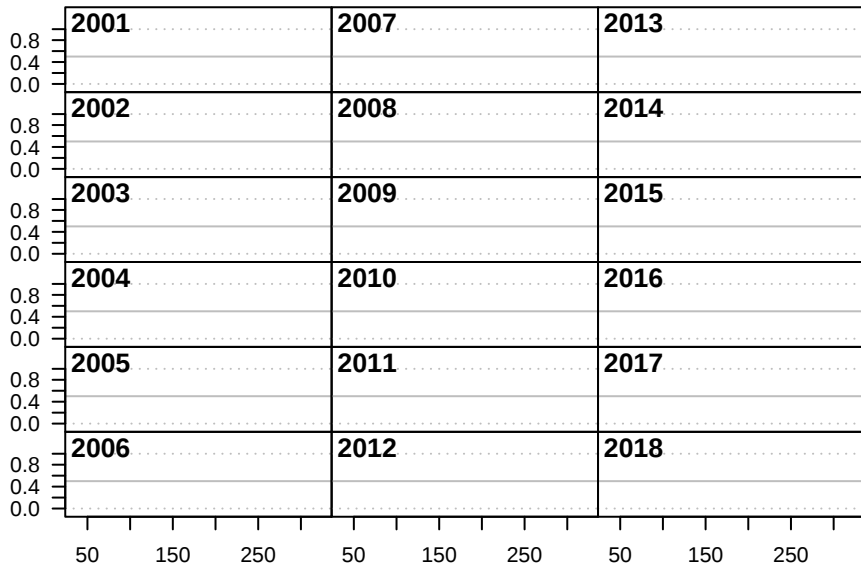


Fraction female



Length (cm)

Fraction female



Length (cm)

Proportion

I1_Chile_Q2

Sum of N adj.=641.3

I2_Chile_Q3

Sum of N adj.=485.6

100

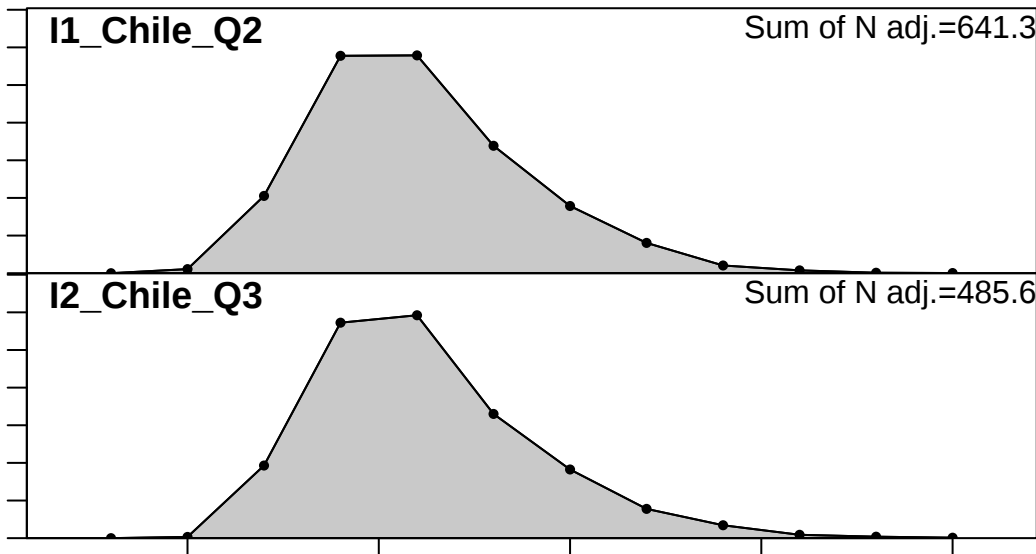
150

200

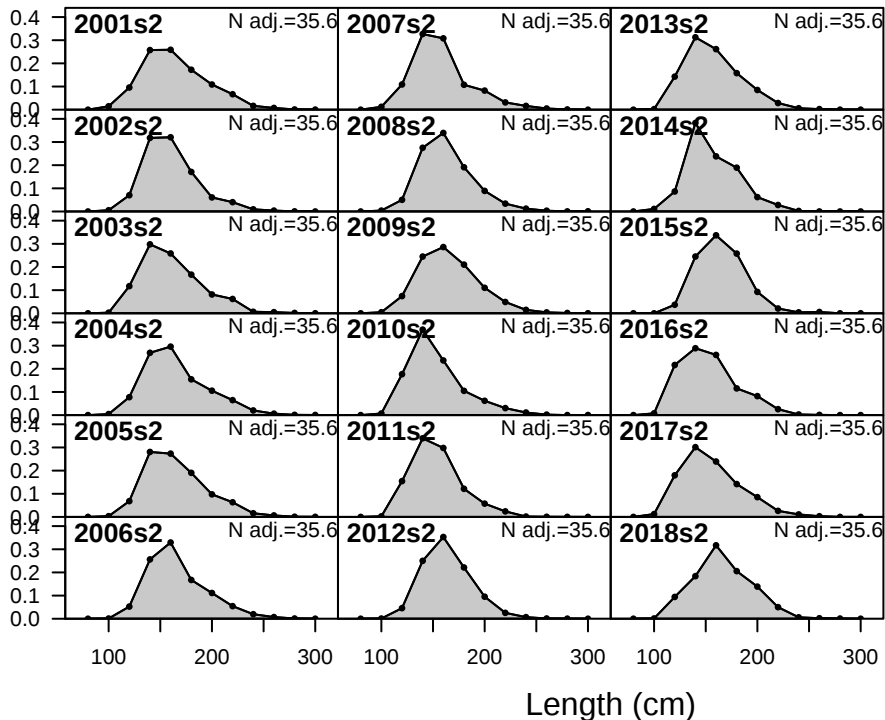
250

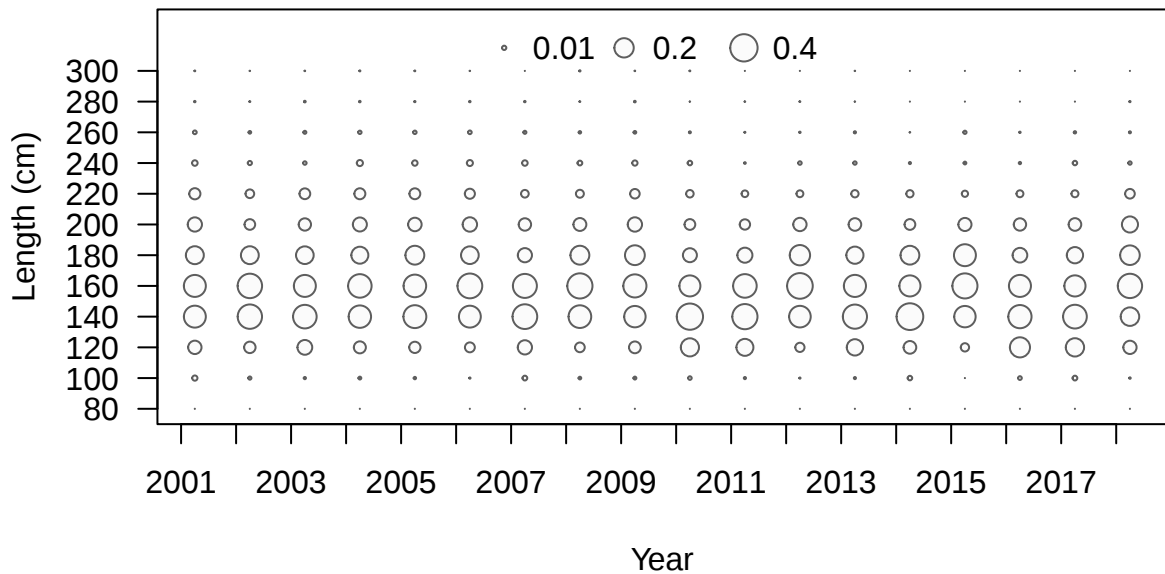
300

Length (cm)

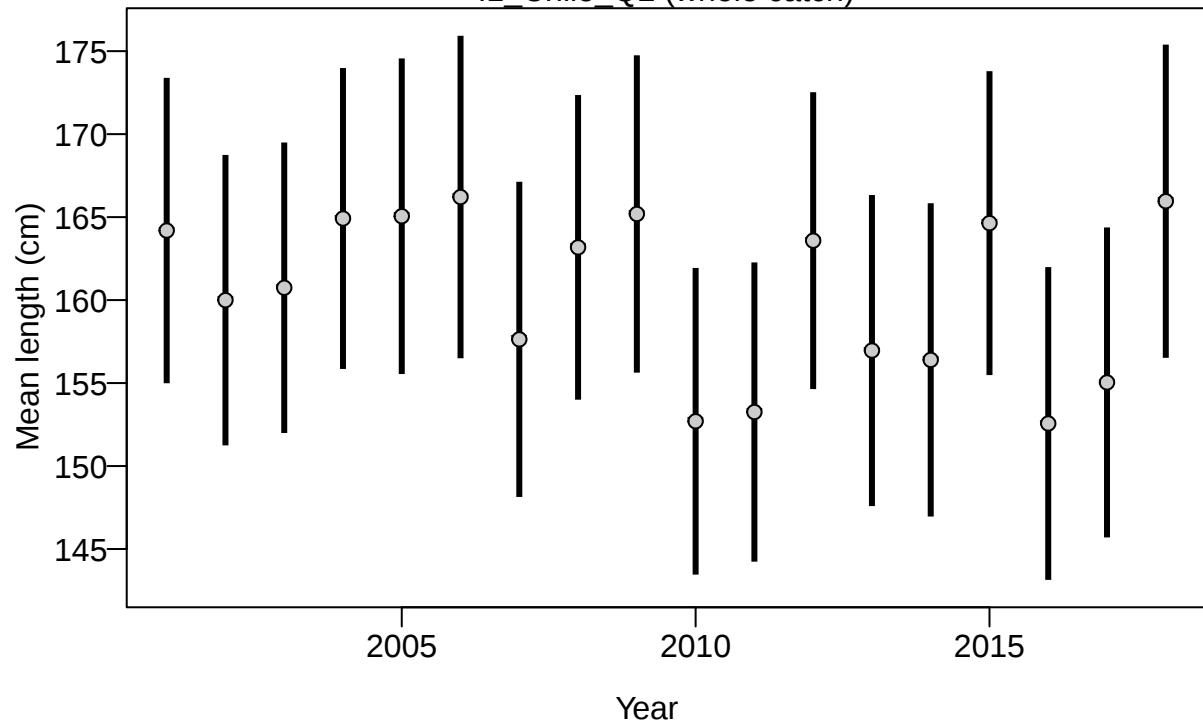


Proportion

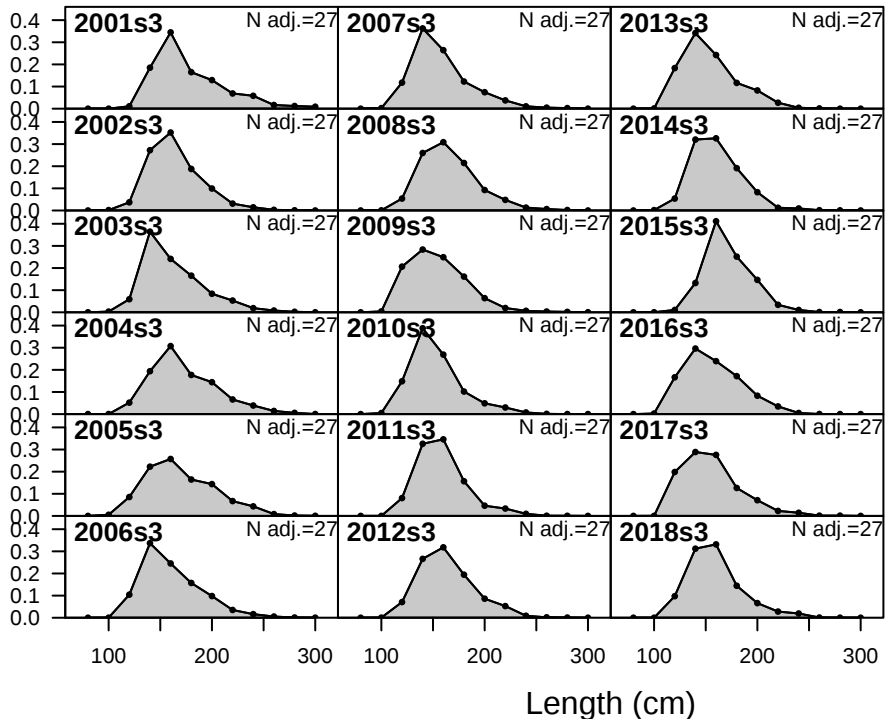


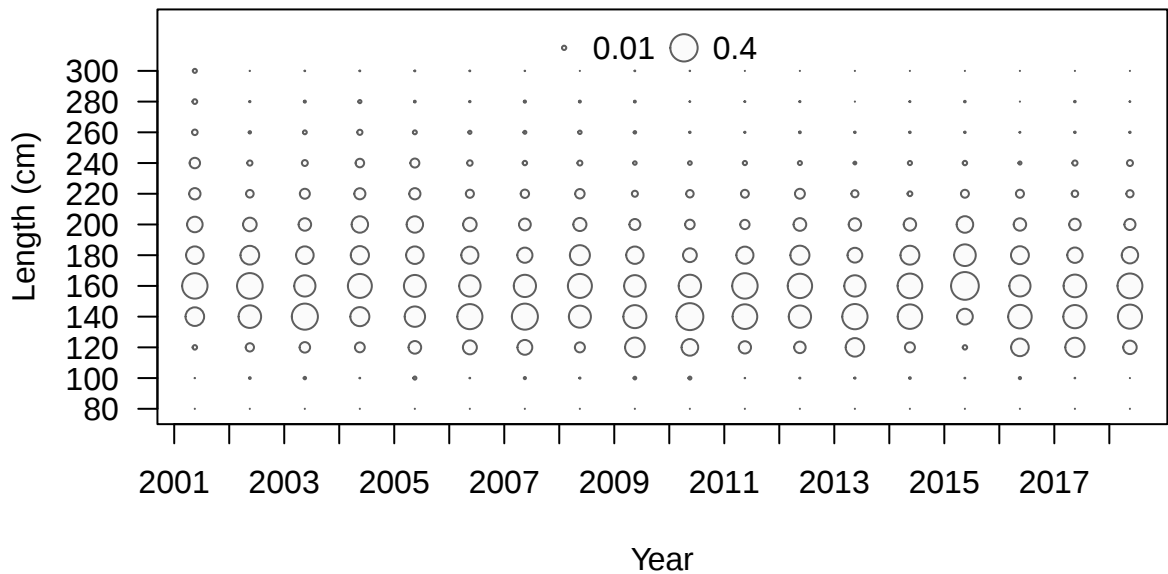


I1_Chile_Q2 (whole catch)

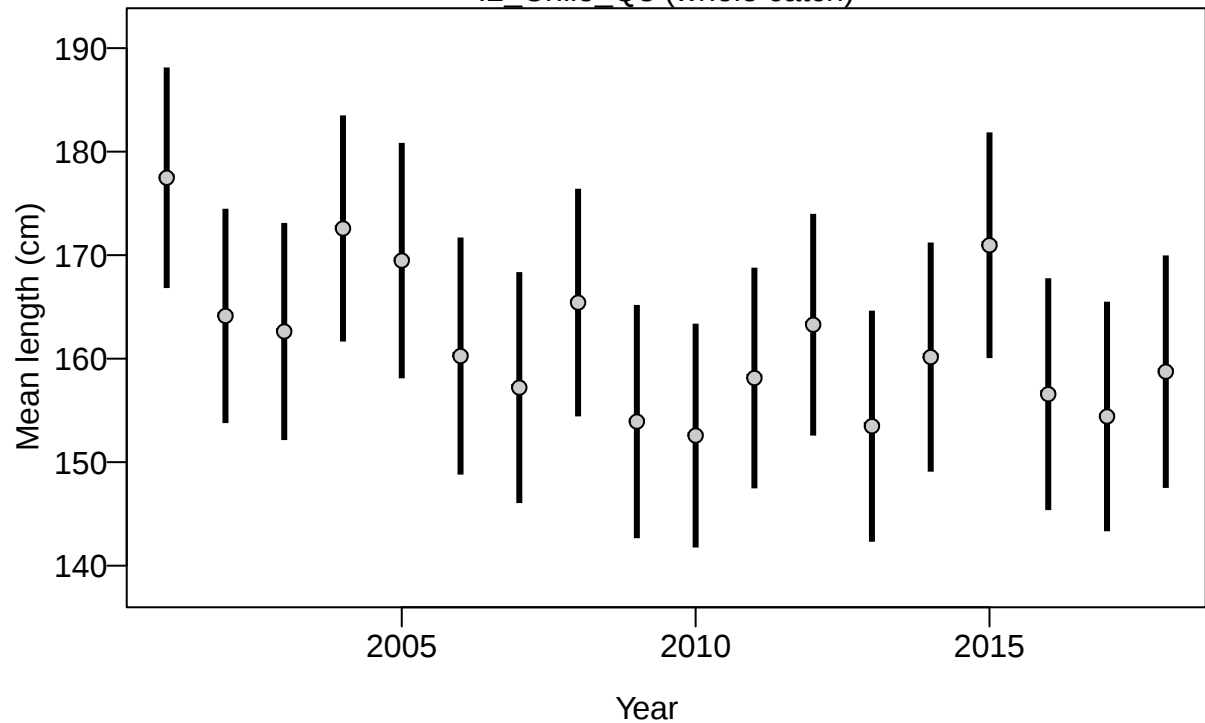


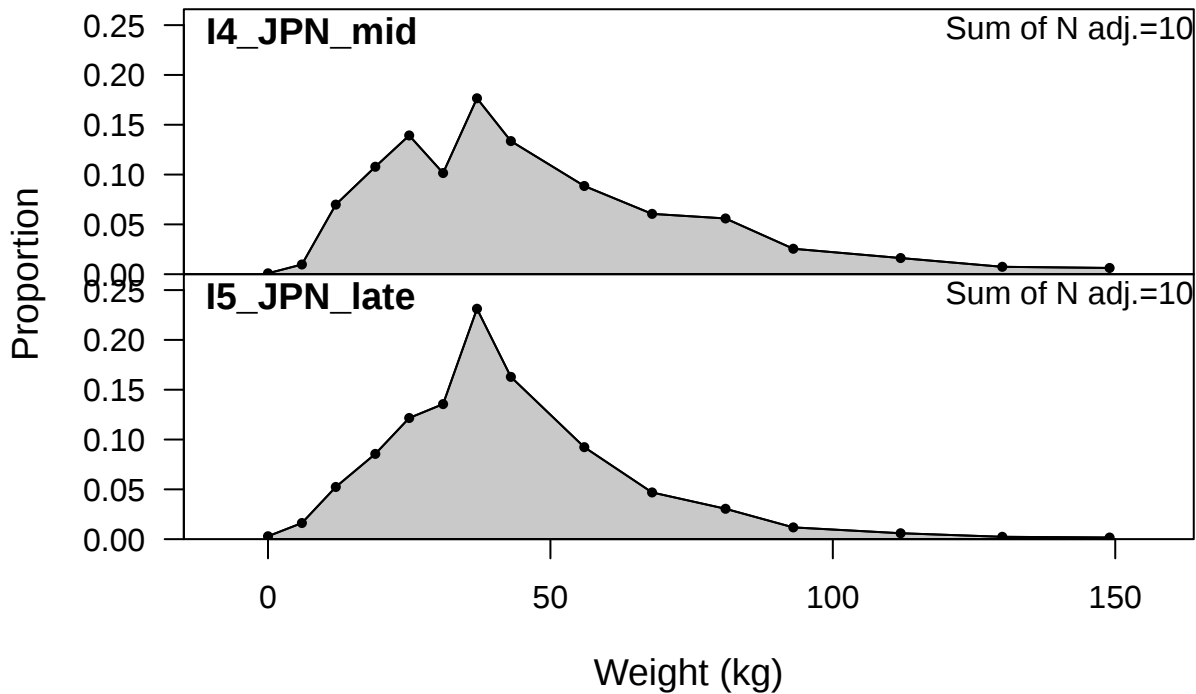
Proportion

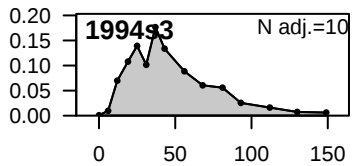




I2_Chile_Q3 (whole catch)

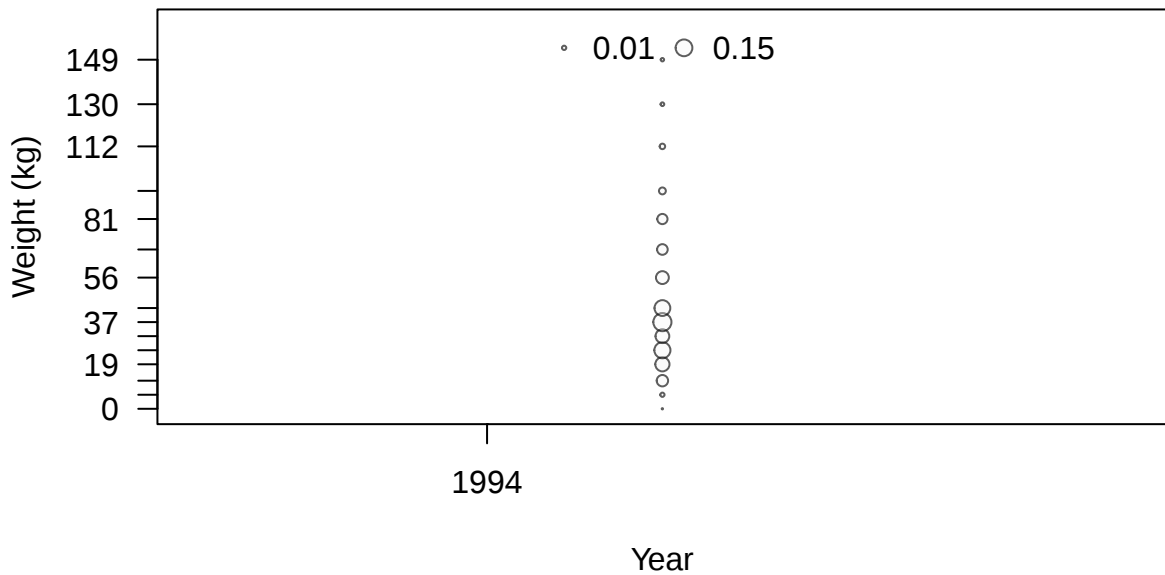


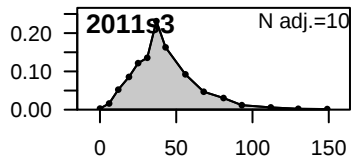




Proportion

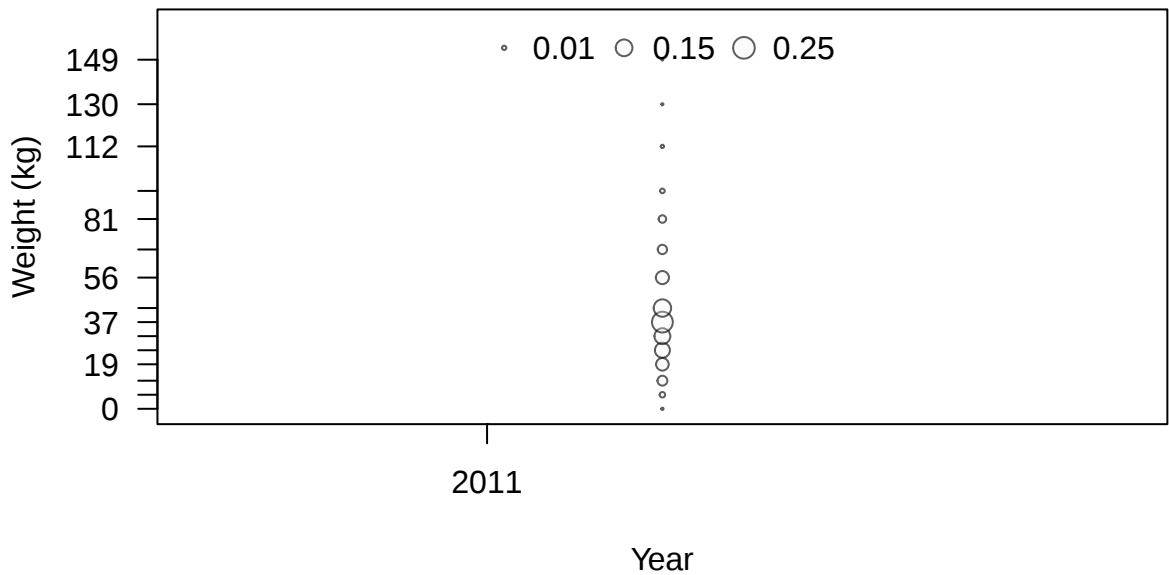
Weight (kg)





Proportion

Weight (kg)



Proportion

I6_ESP_Q1

Sum of N adj.=750

I8_ESP_Q3

Sum of N adj.=750

I7_ESP_Q2

Sum of N adj.=750

I9_ESP_Q4

Sum of N adj.=750

Length (cm)

0.15
0.10
0.05
0.00
0.00
0.05
0.10
0.15

50

100

150

200

250

50

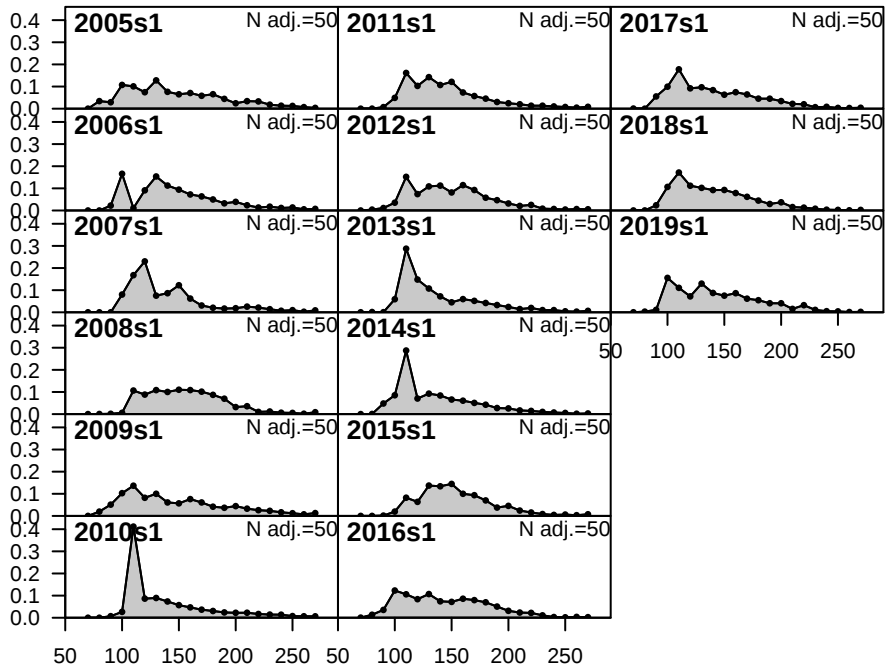
100

150

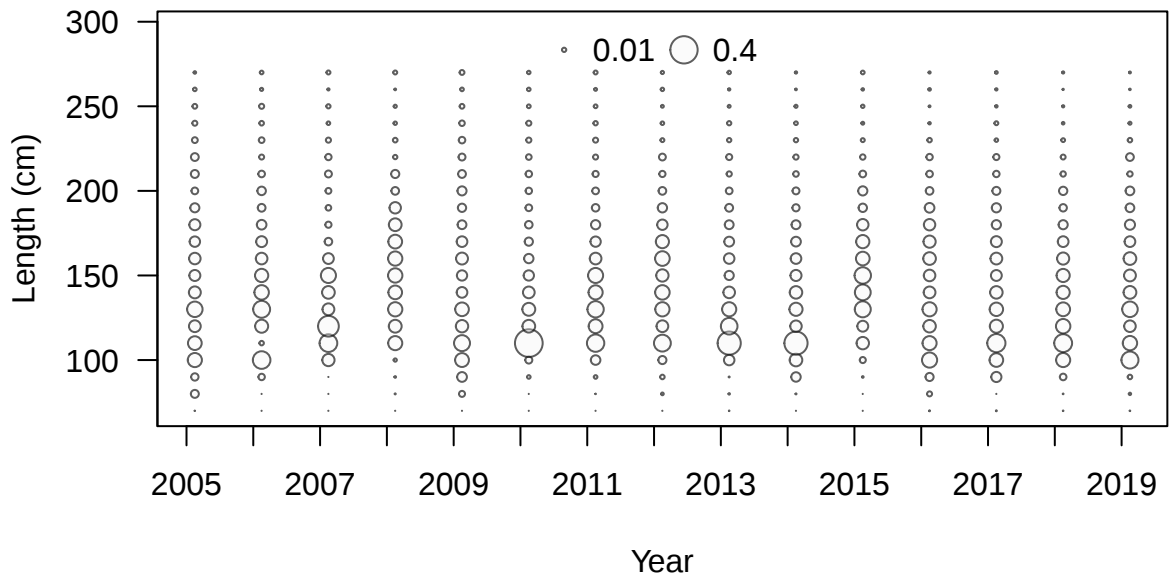
200

250

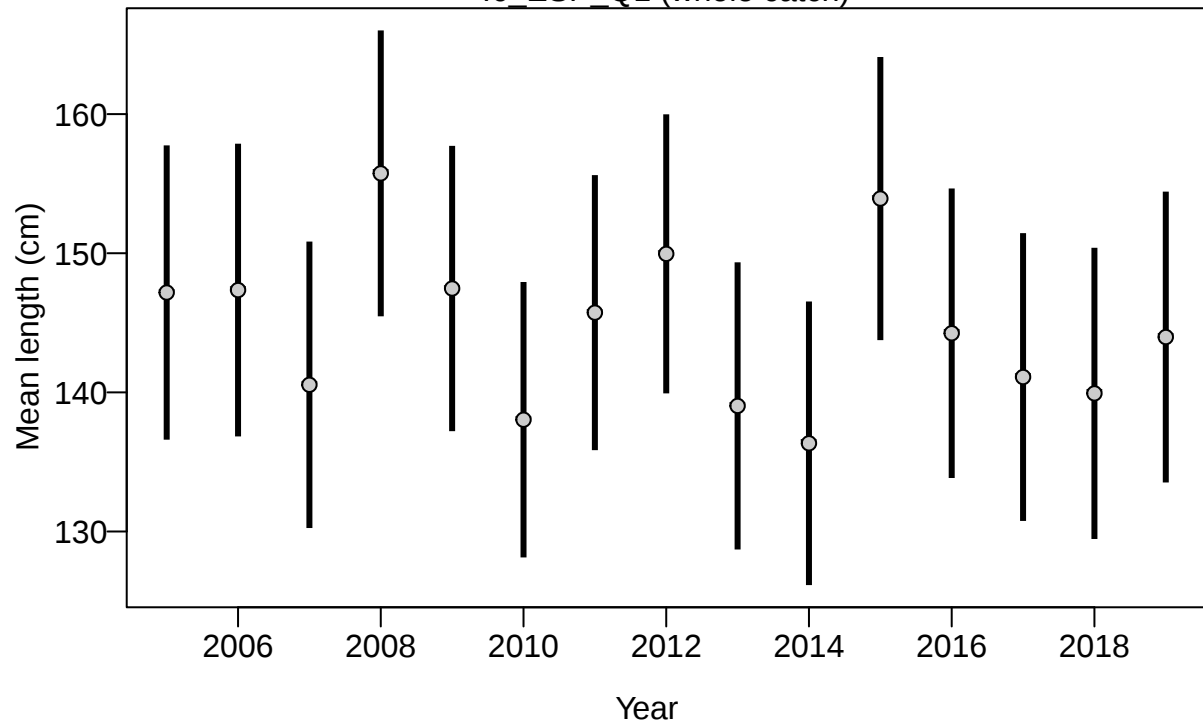
Proportion



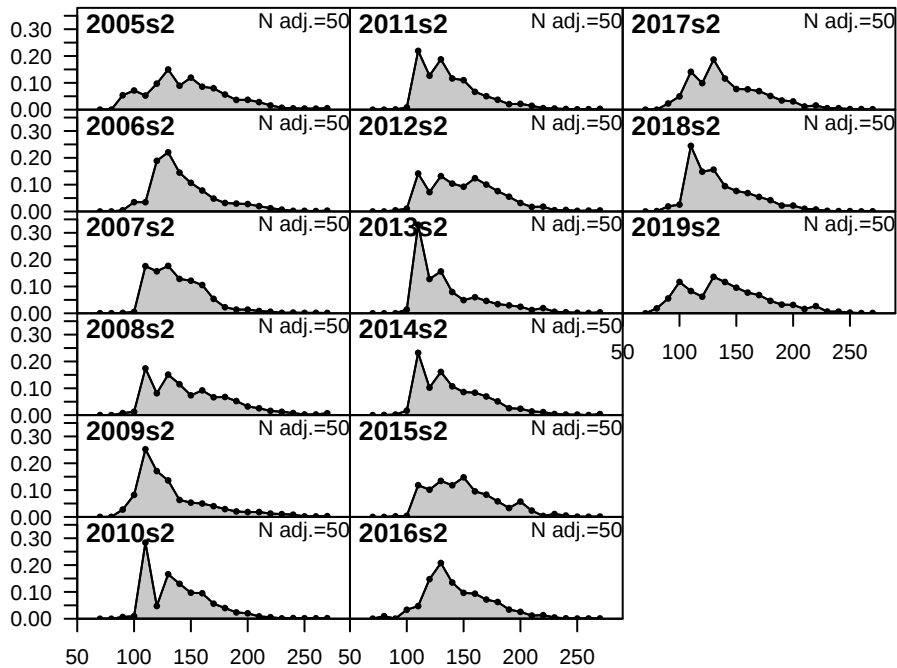
Length (cm)



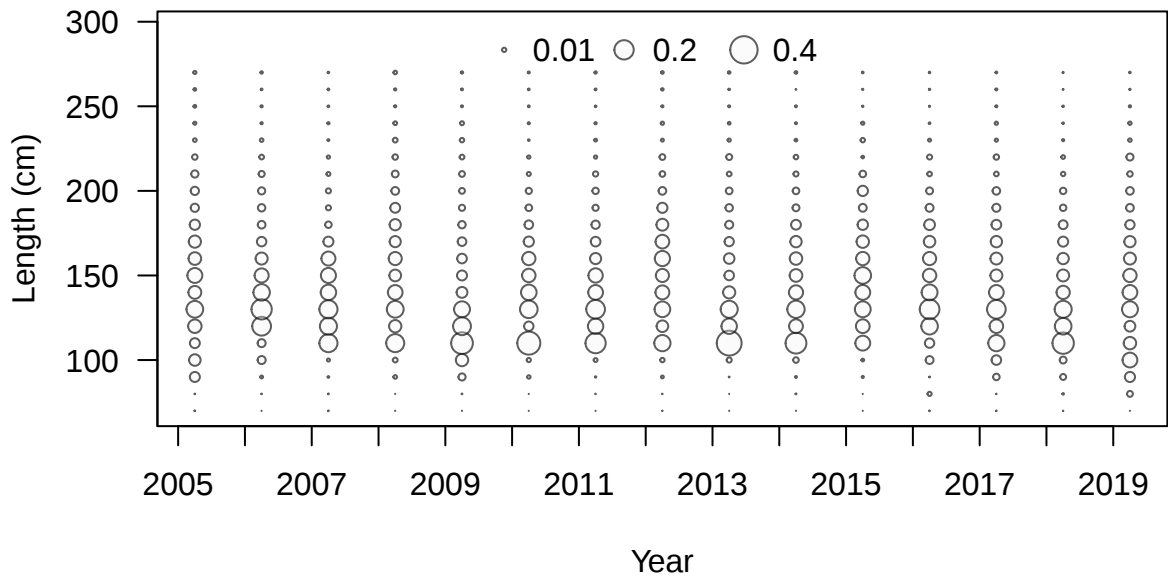
I6_ESP_Q1 (whole catch)



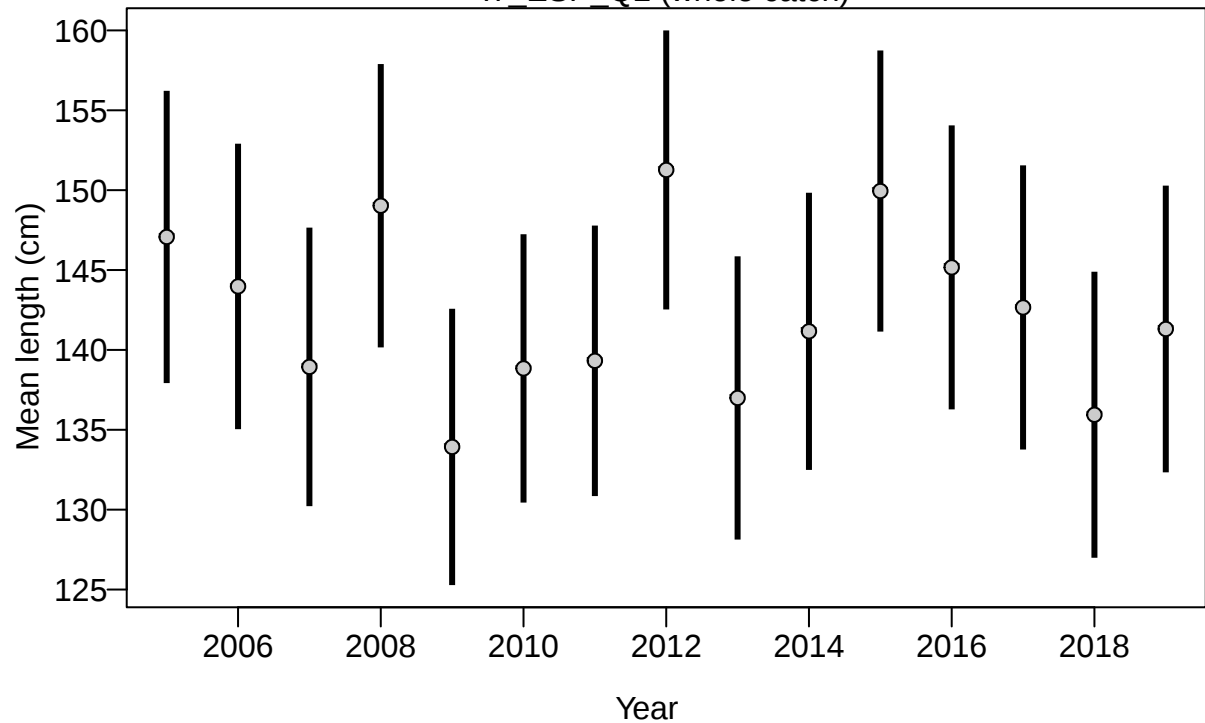
Proportion



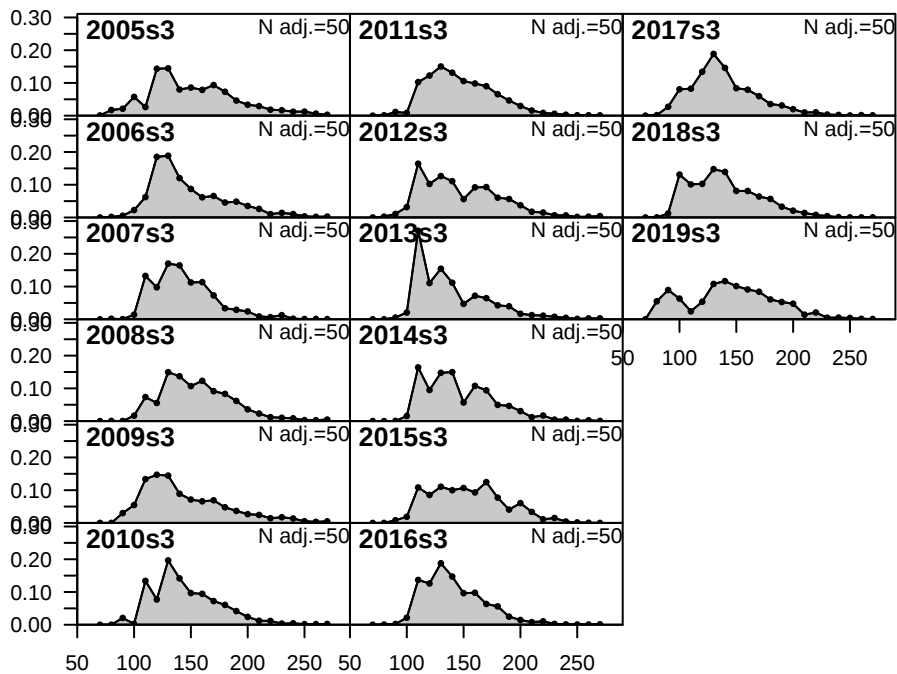
Length (cm)



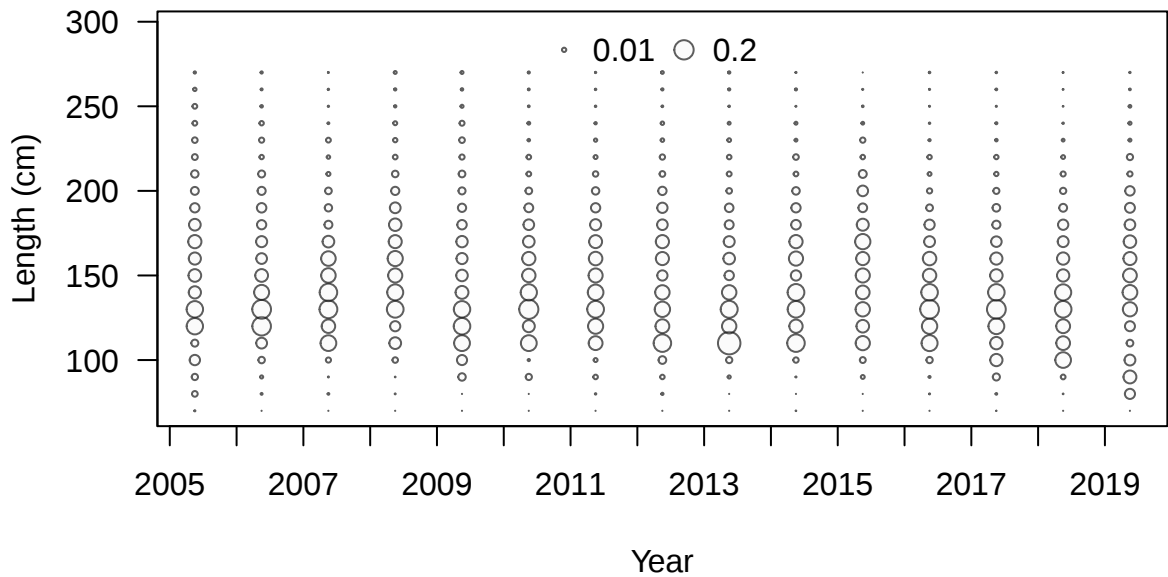
I7_ESP_Q2 (whole catch)



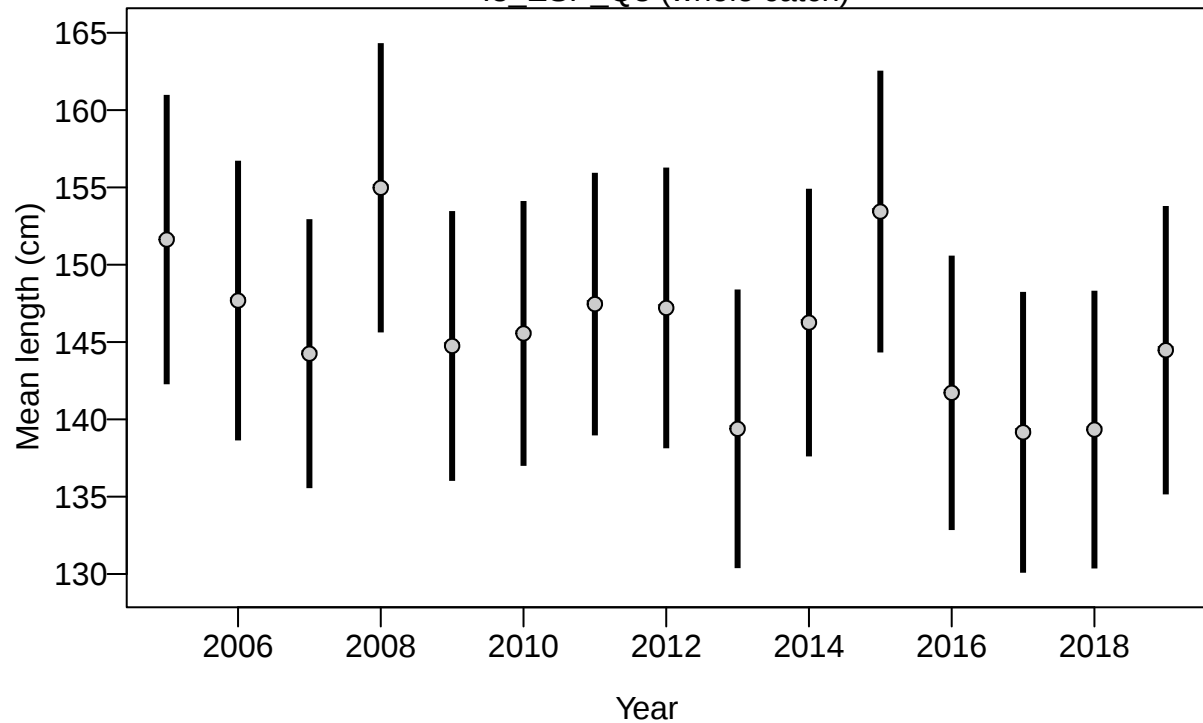
Proportion



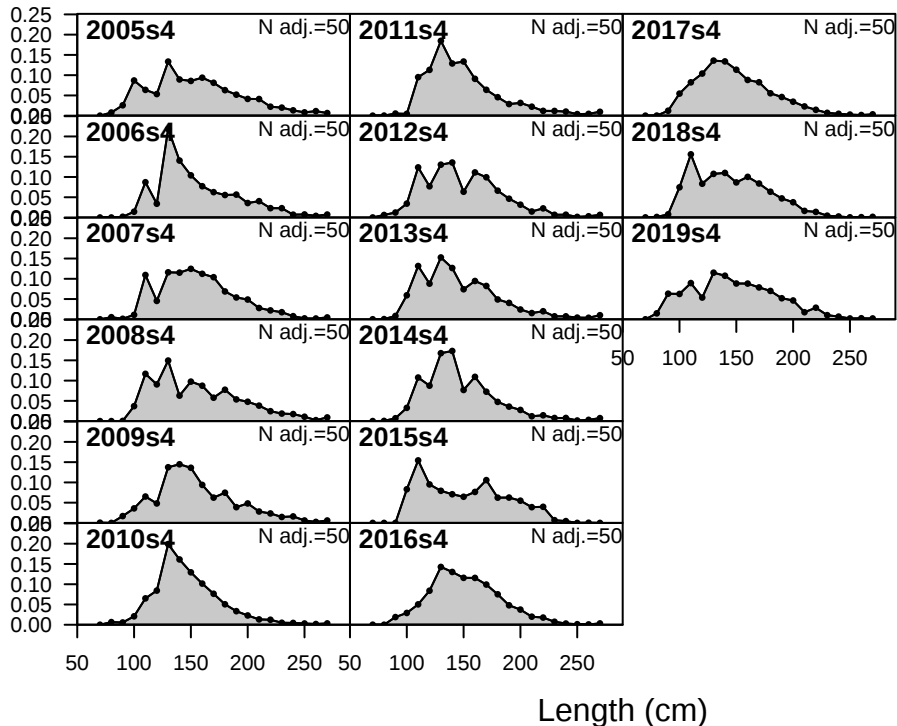
Length (cm)

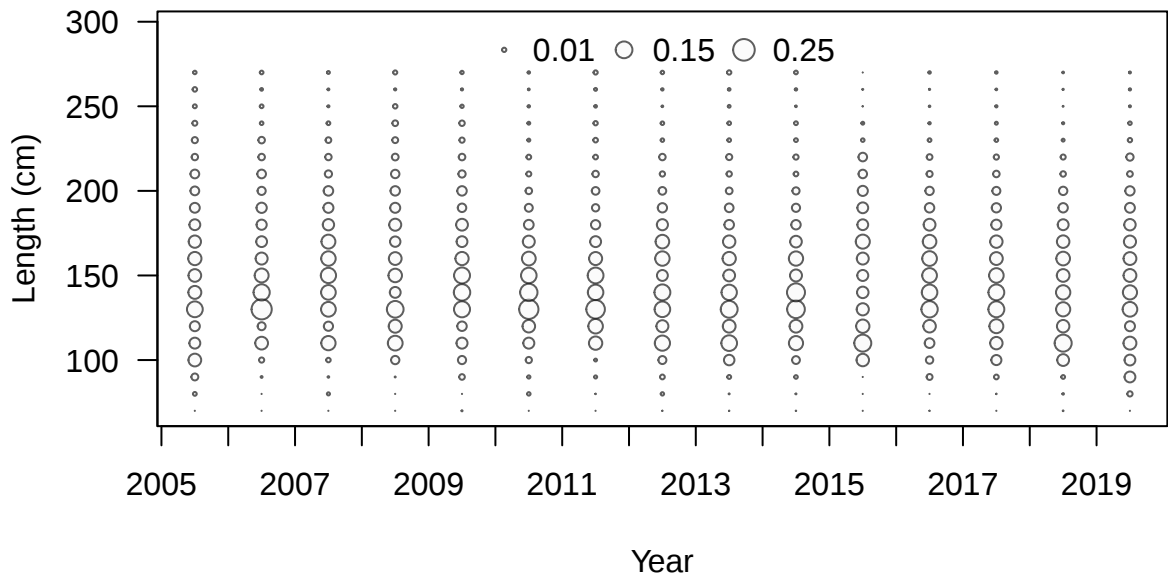


I8_ESP_Q3 (whole catch)

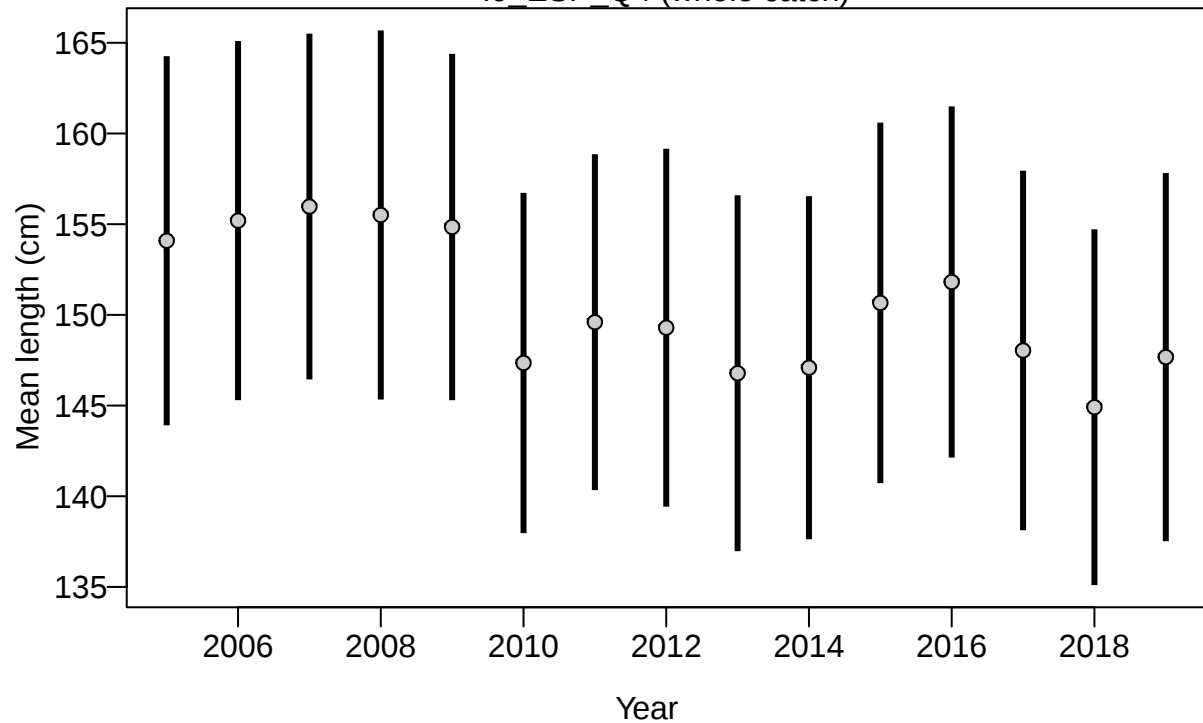


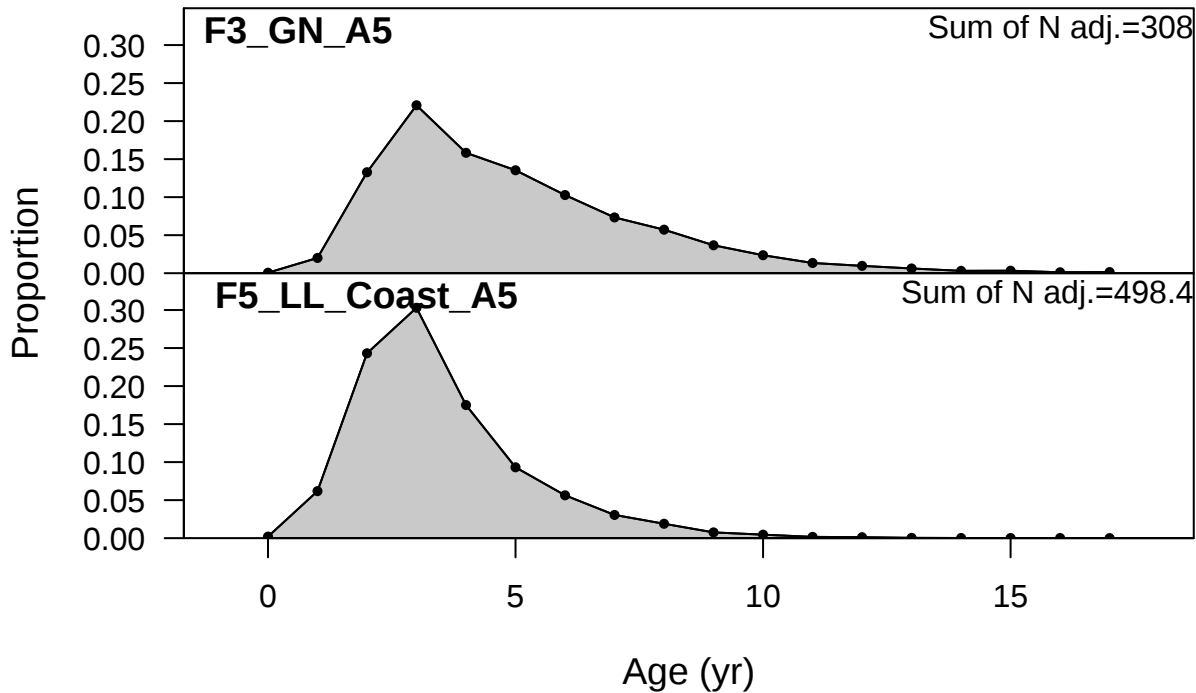
Proportion



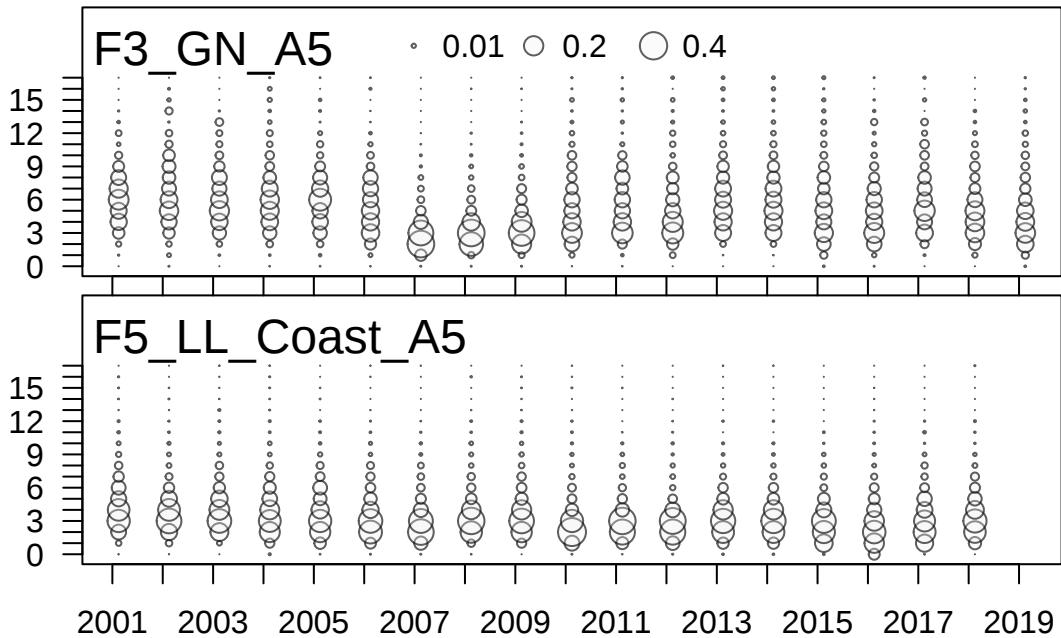


I9_ESP_Q4 (whole catch)



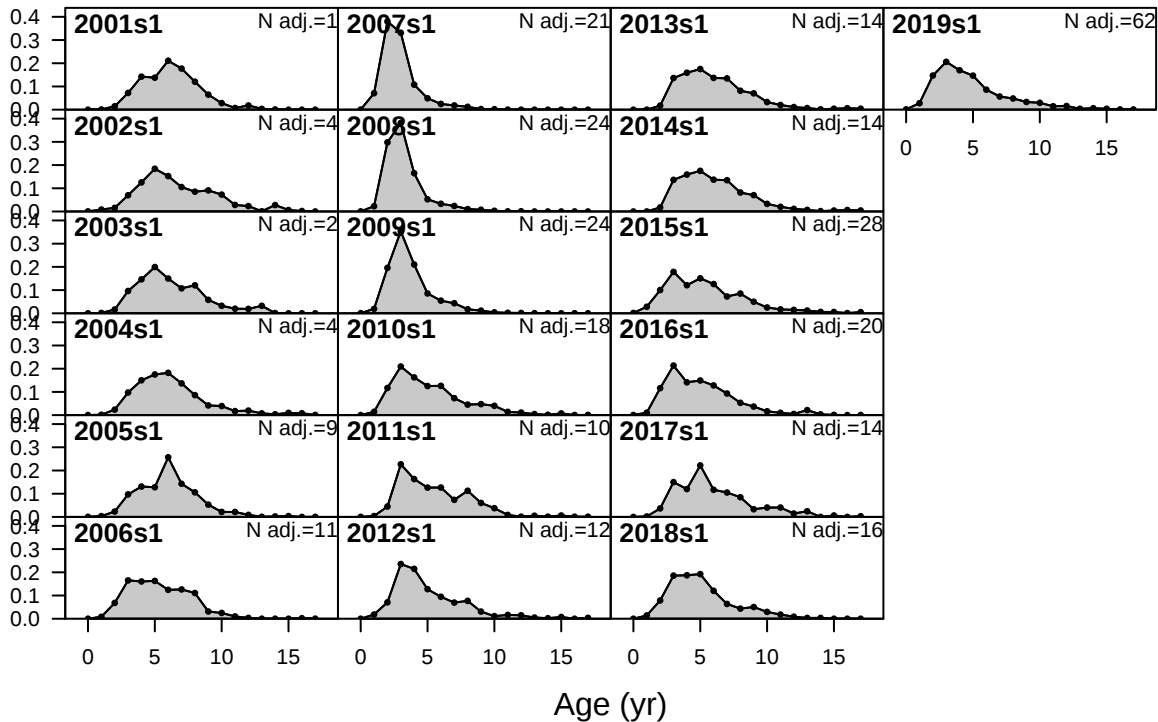


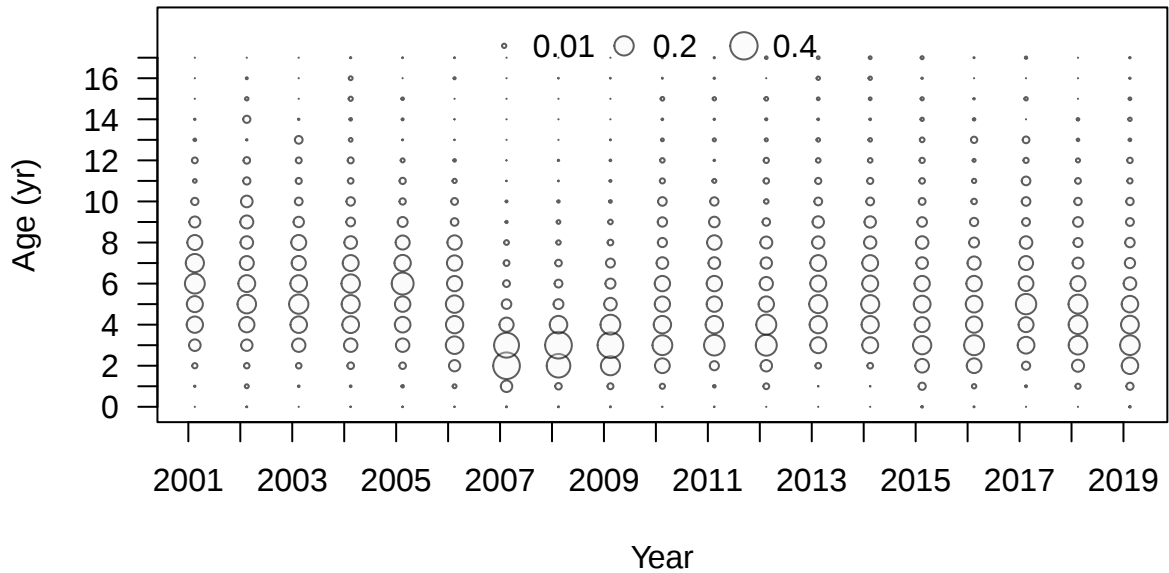
Age (yr)



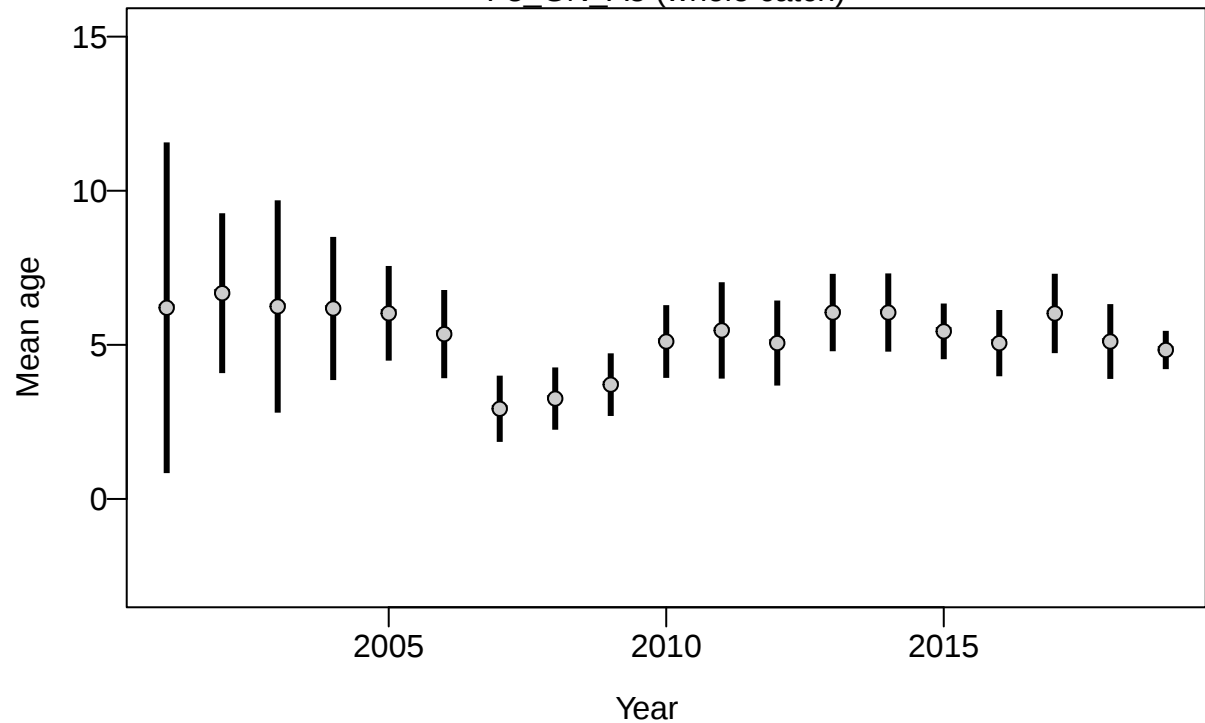
Year

Proportion

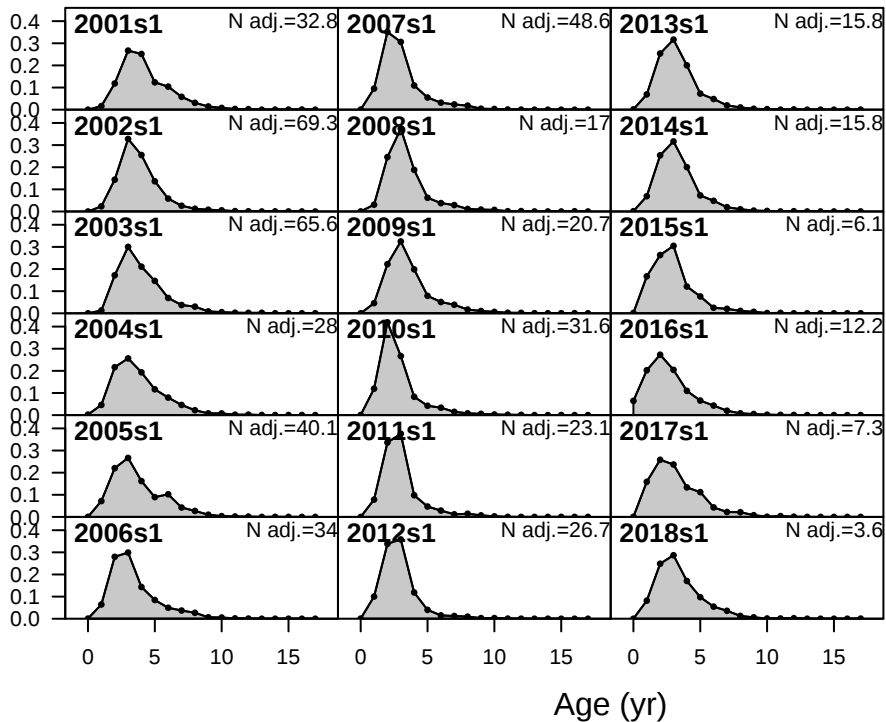


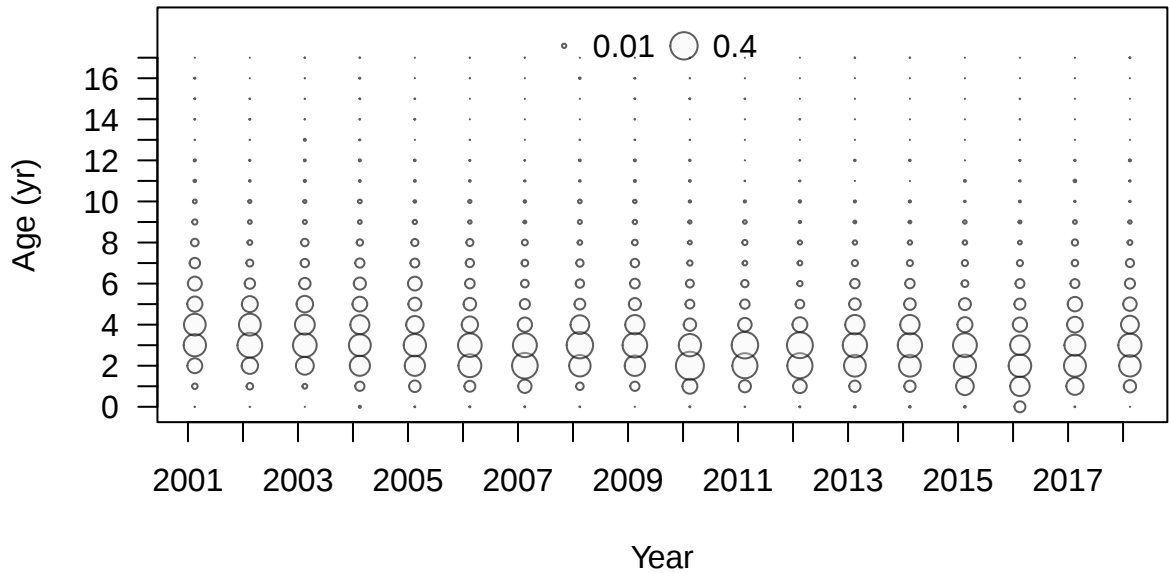


F3_GN_A5 (whole catch)

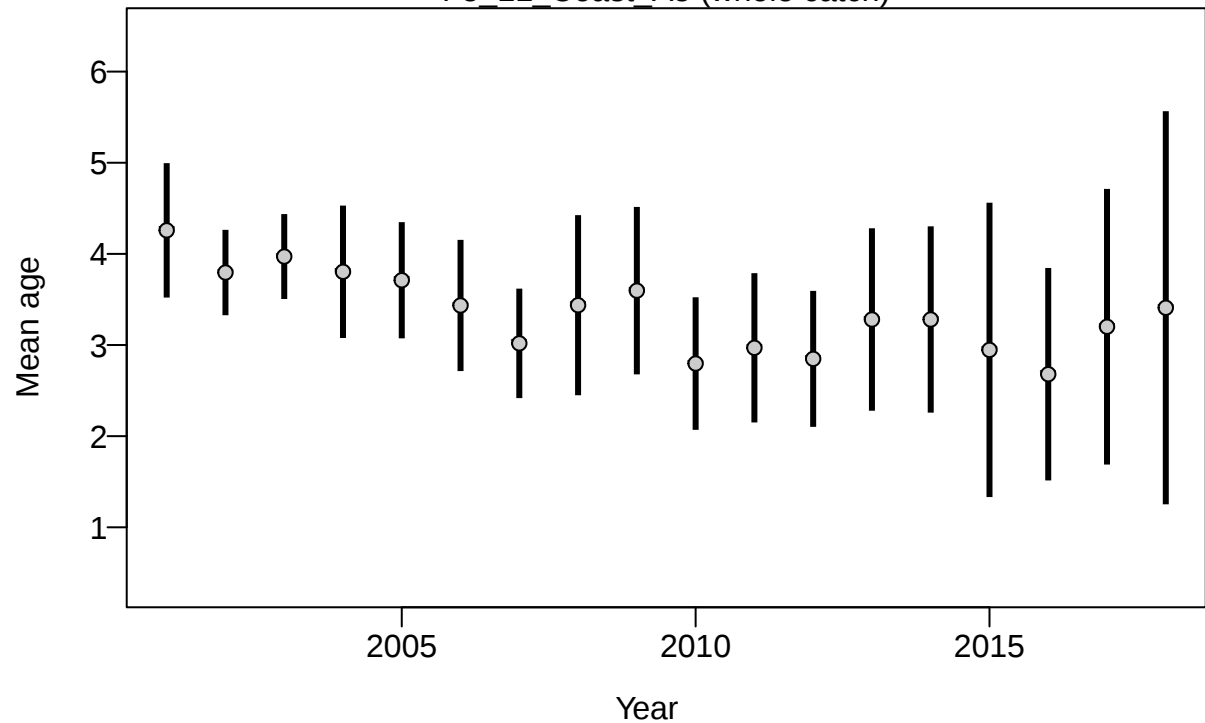


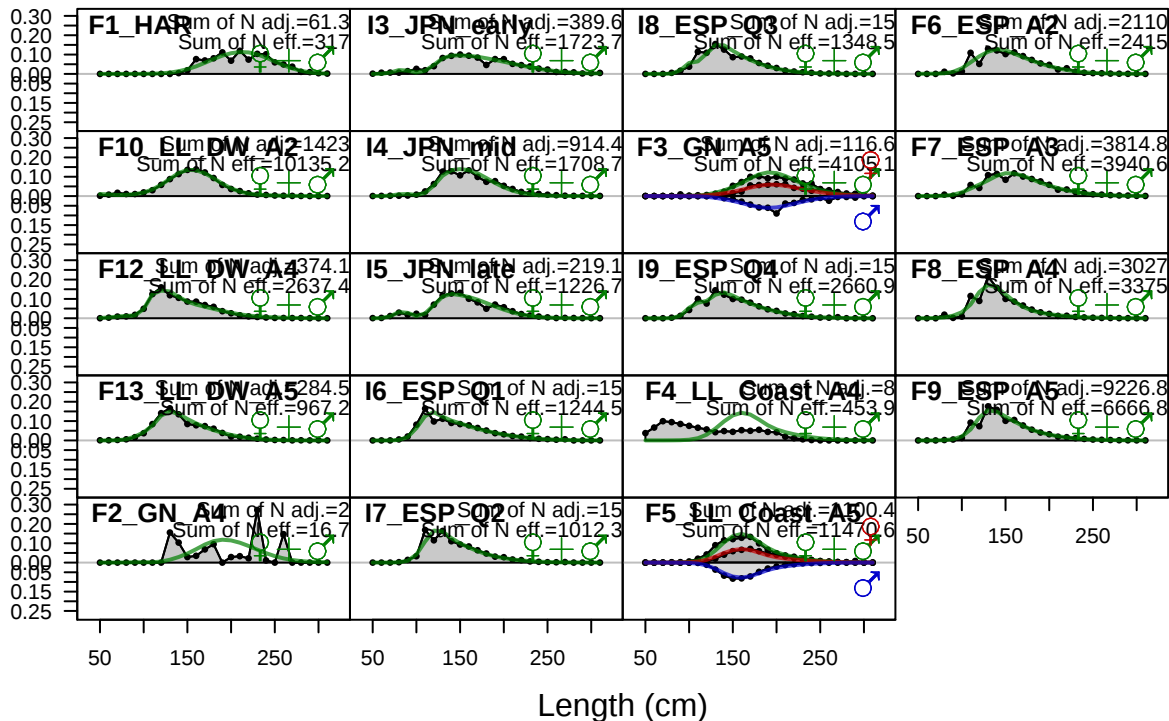
Proportion

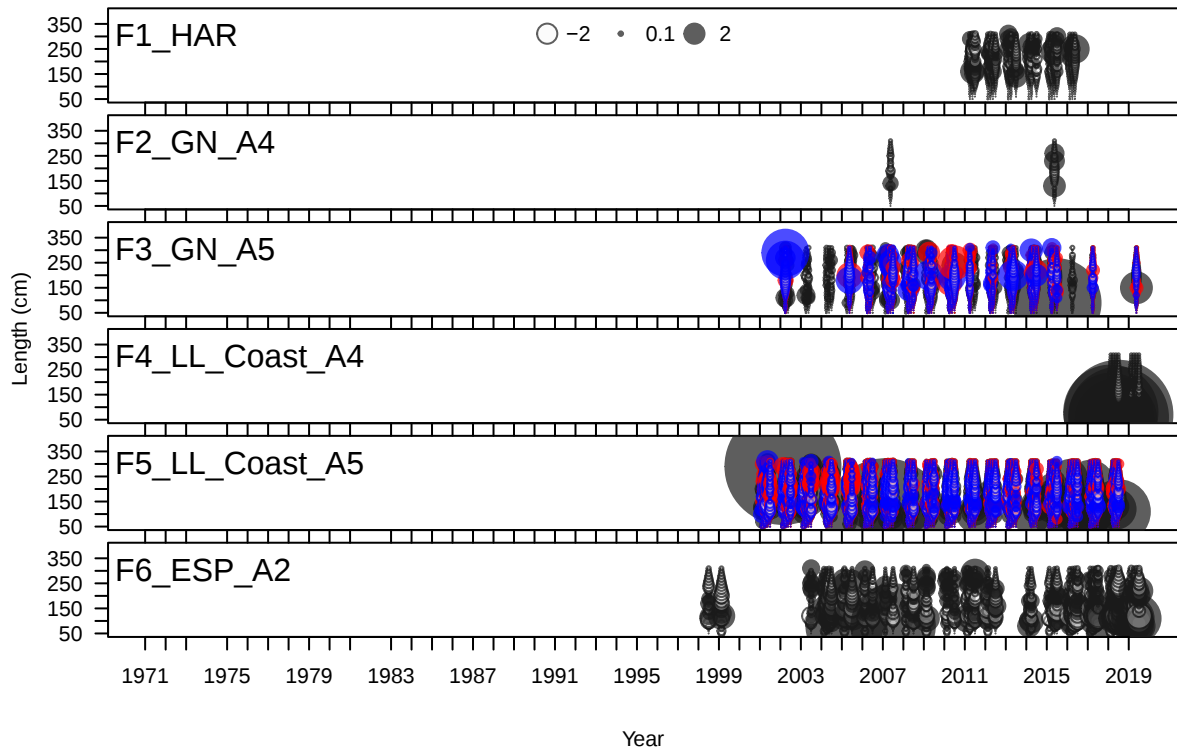


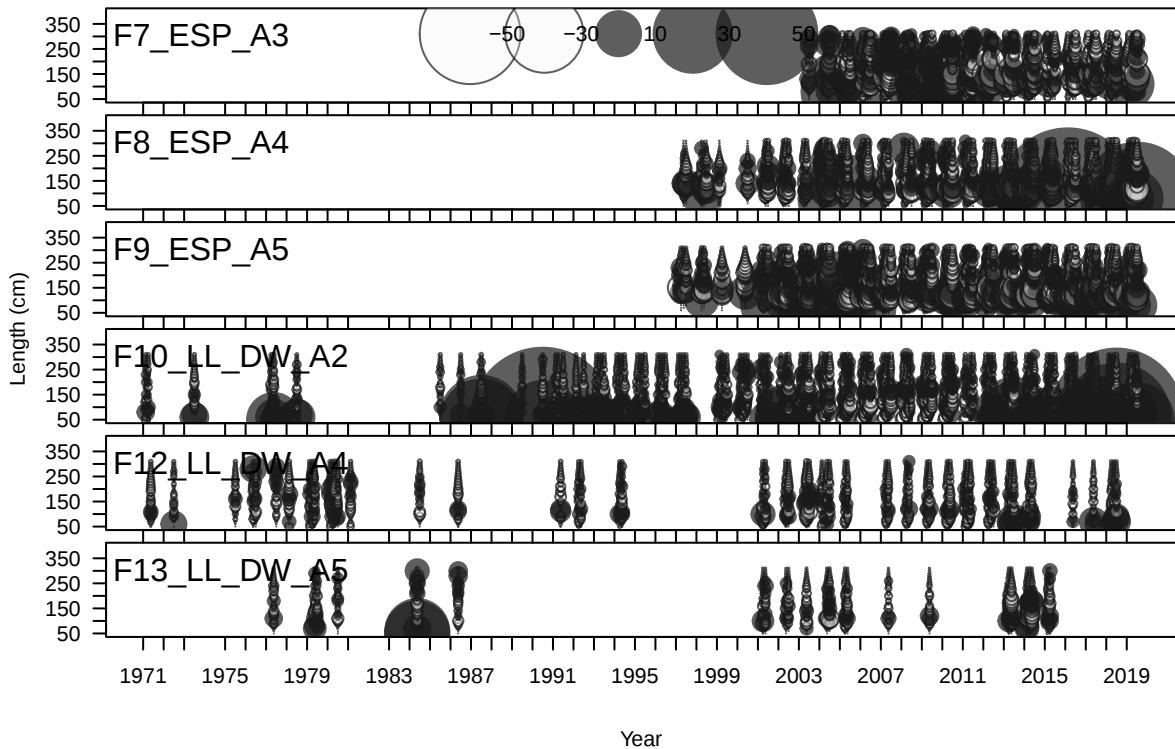


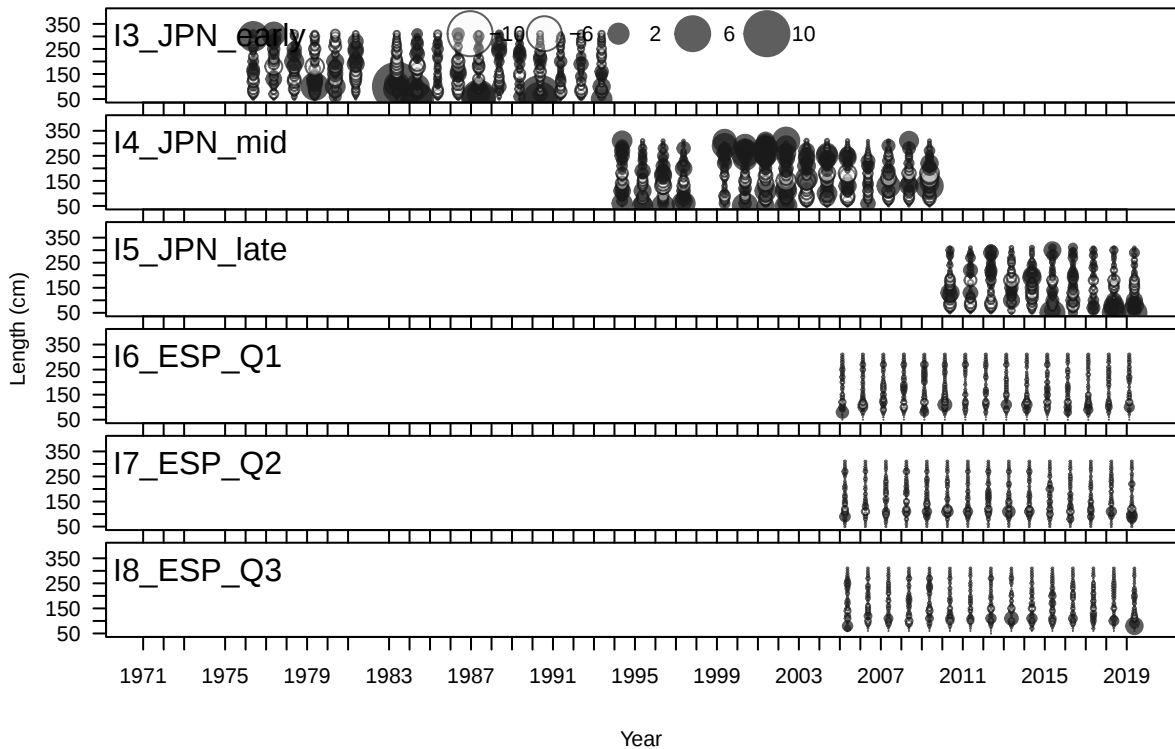
F5_LL_Coast_A5 (whole catch)



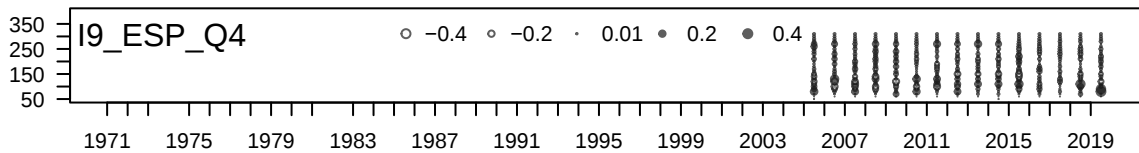




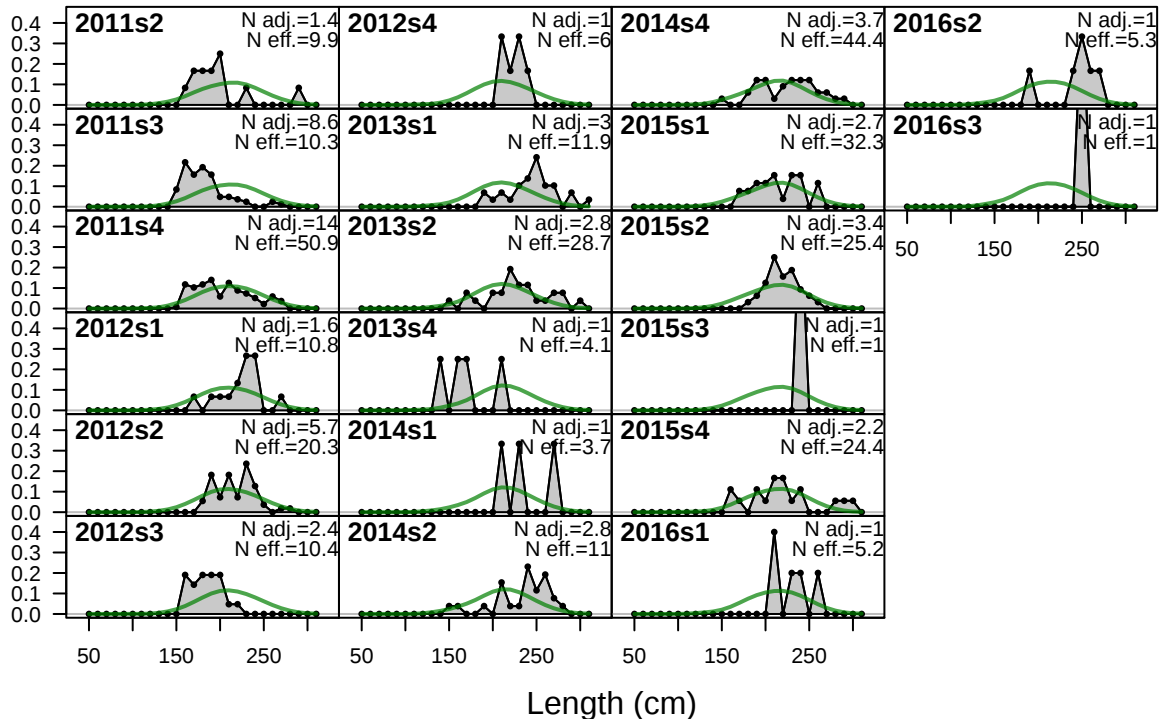


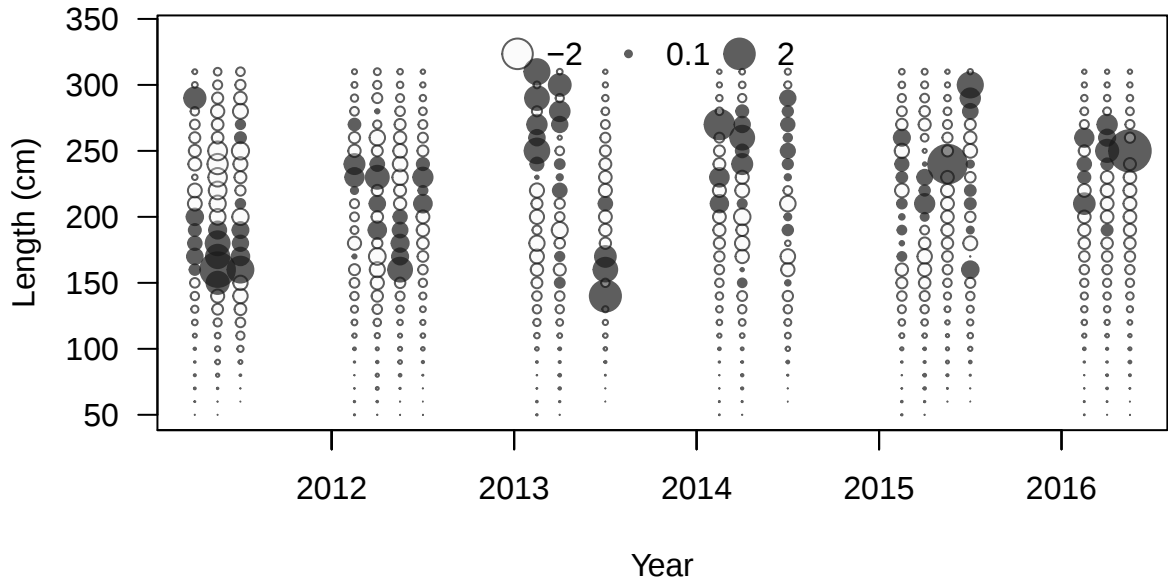


Length (cm)

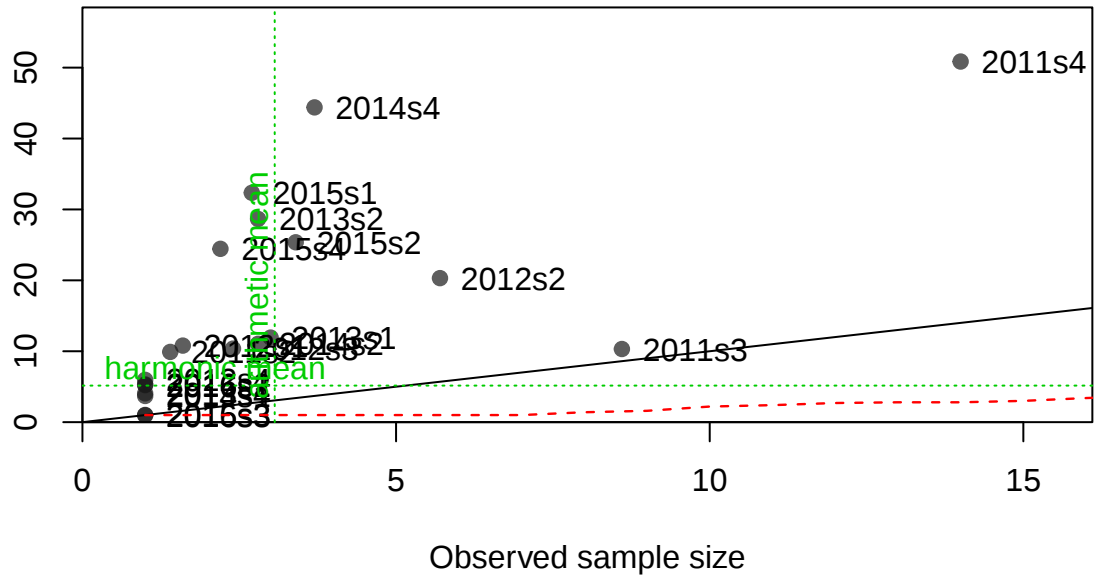


Proportion

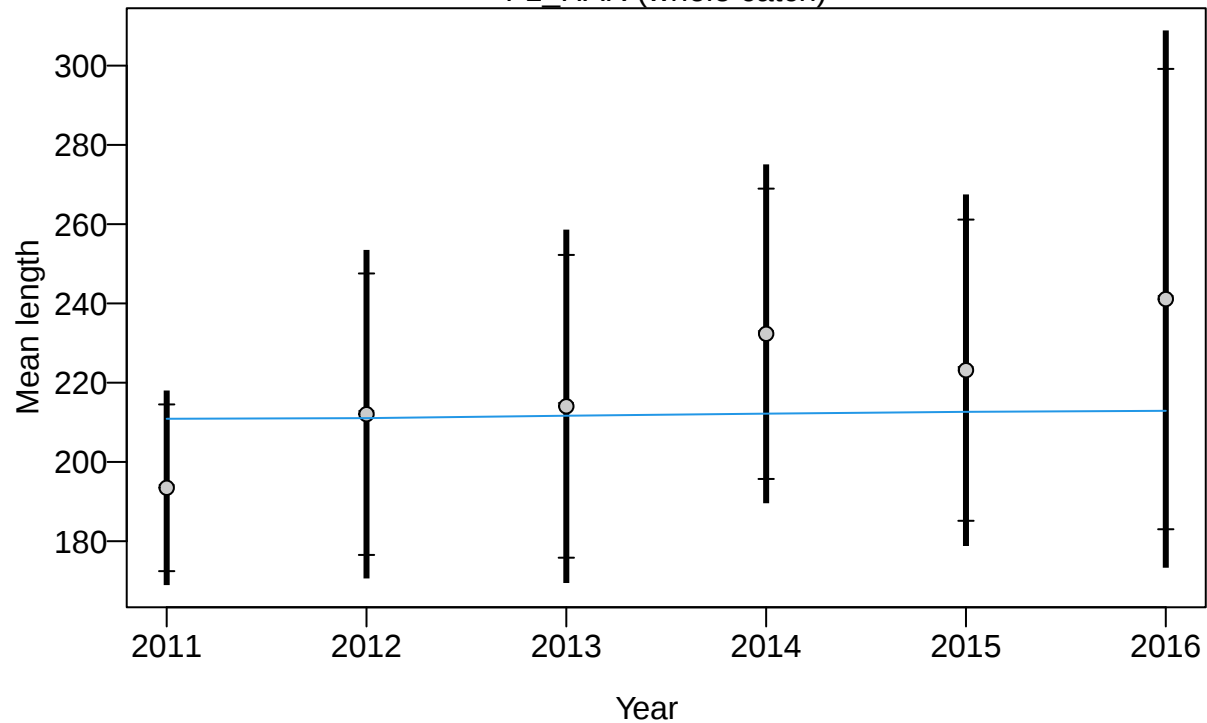




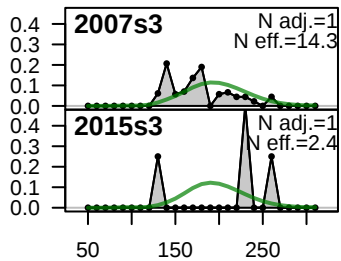
Effective sample size



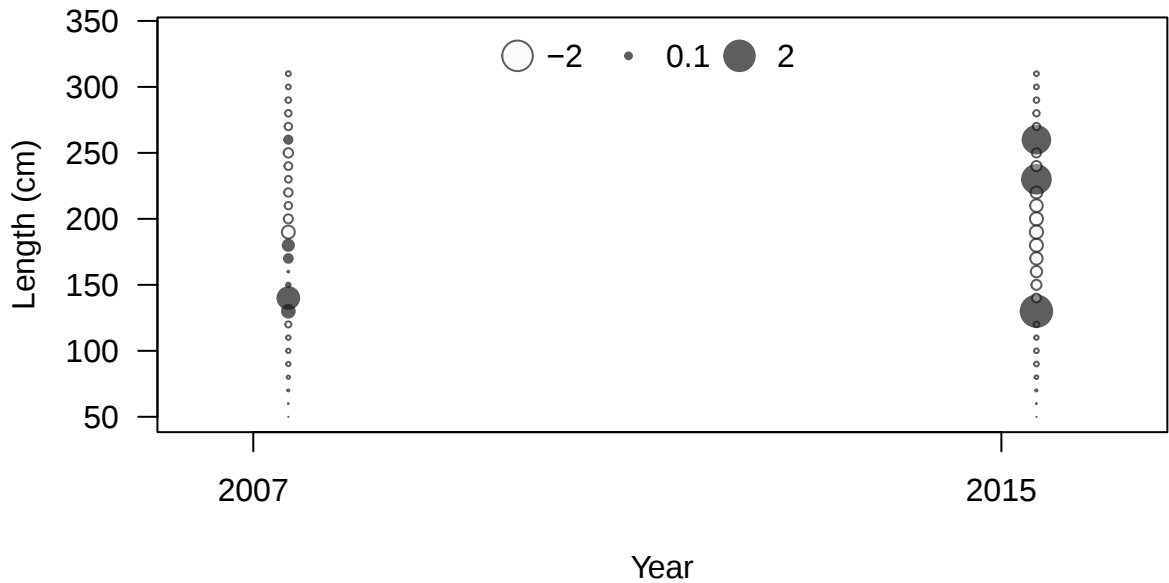
F1_HAR (whole catch)



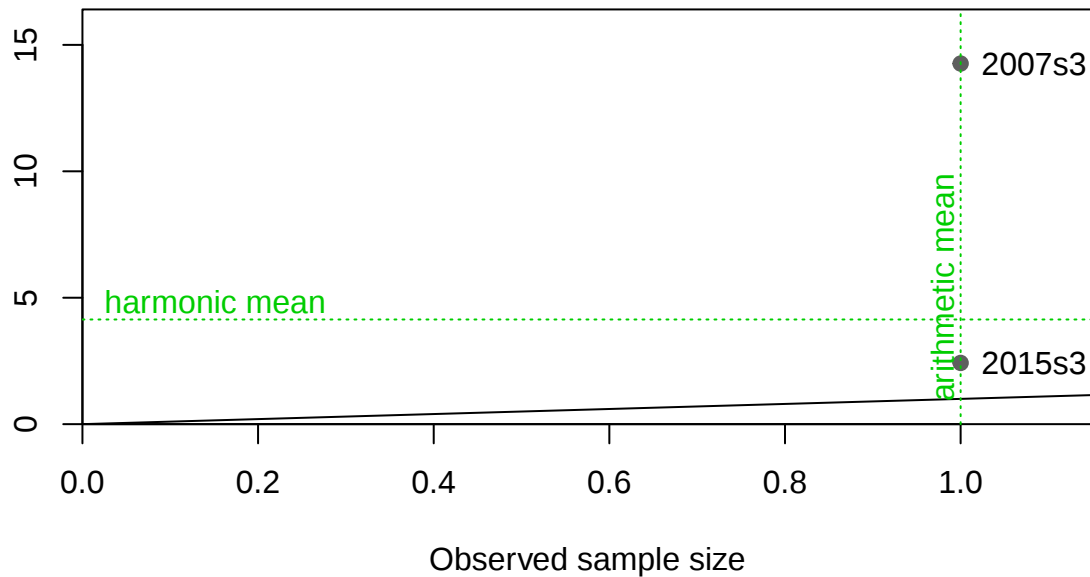
Proportion



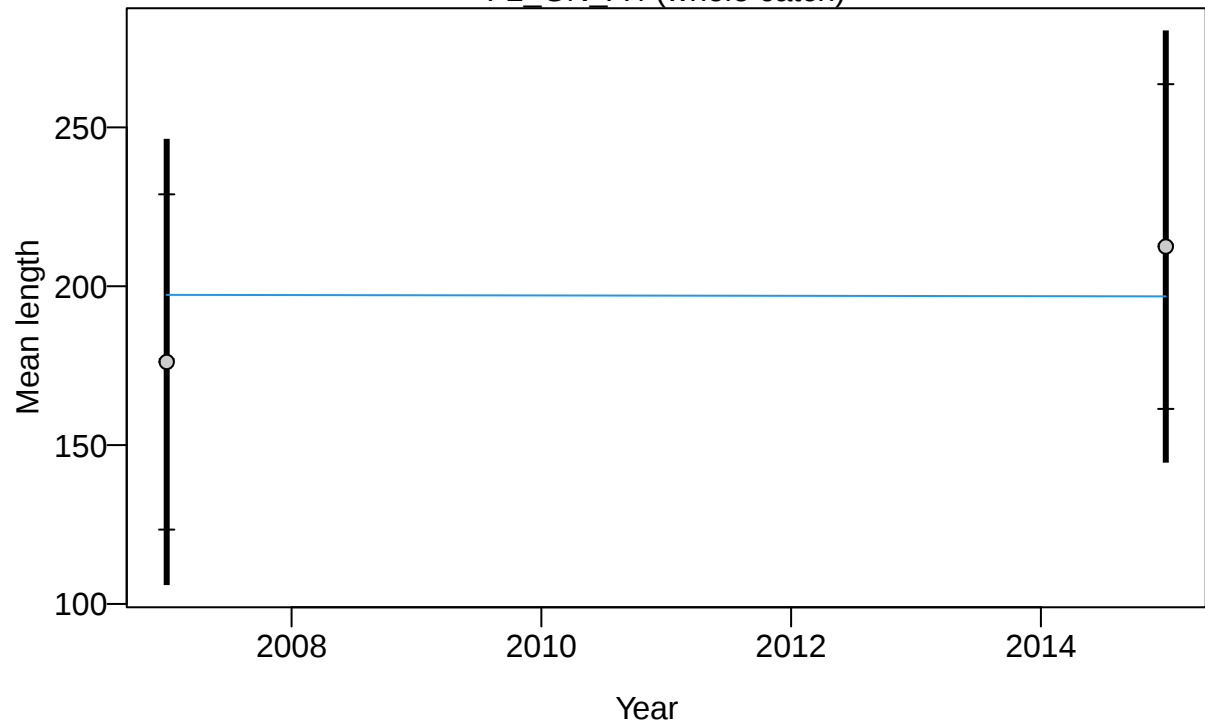
Length (cm)



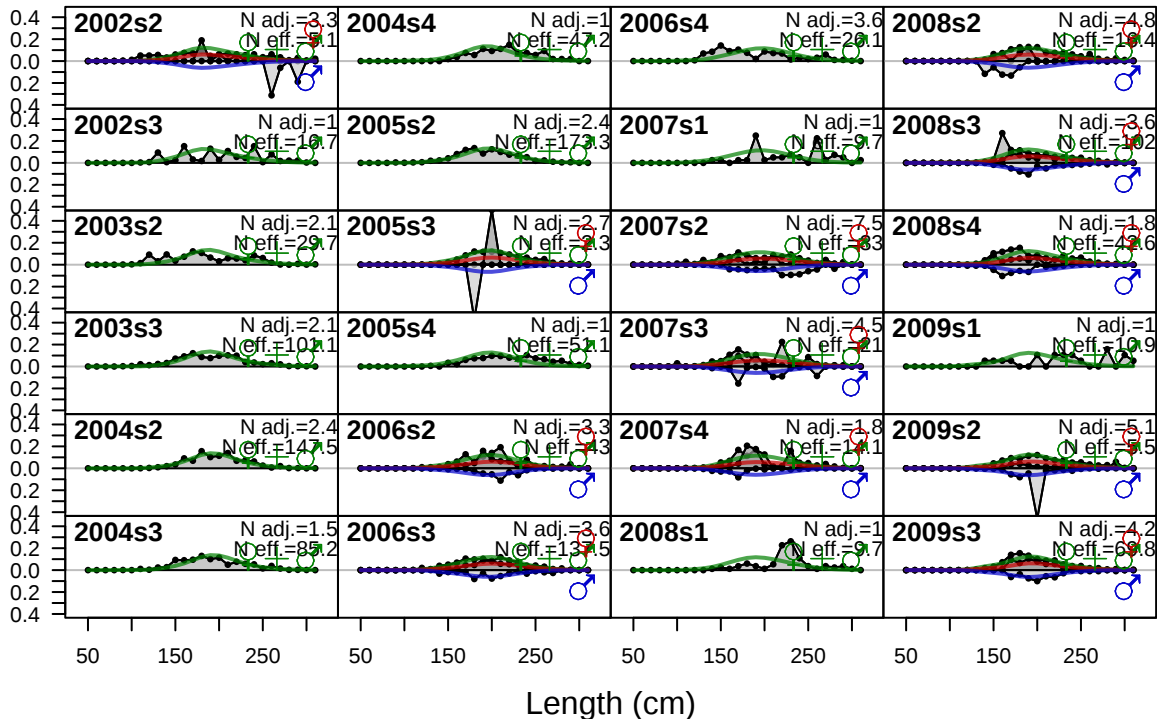
Effective sample size



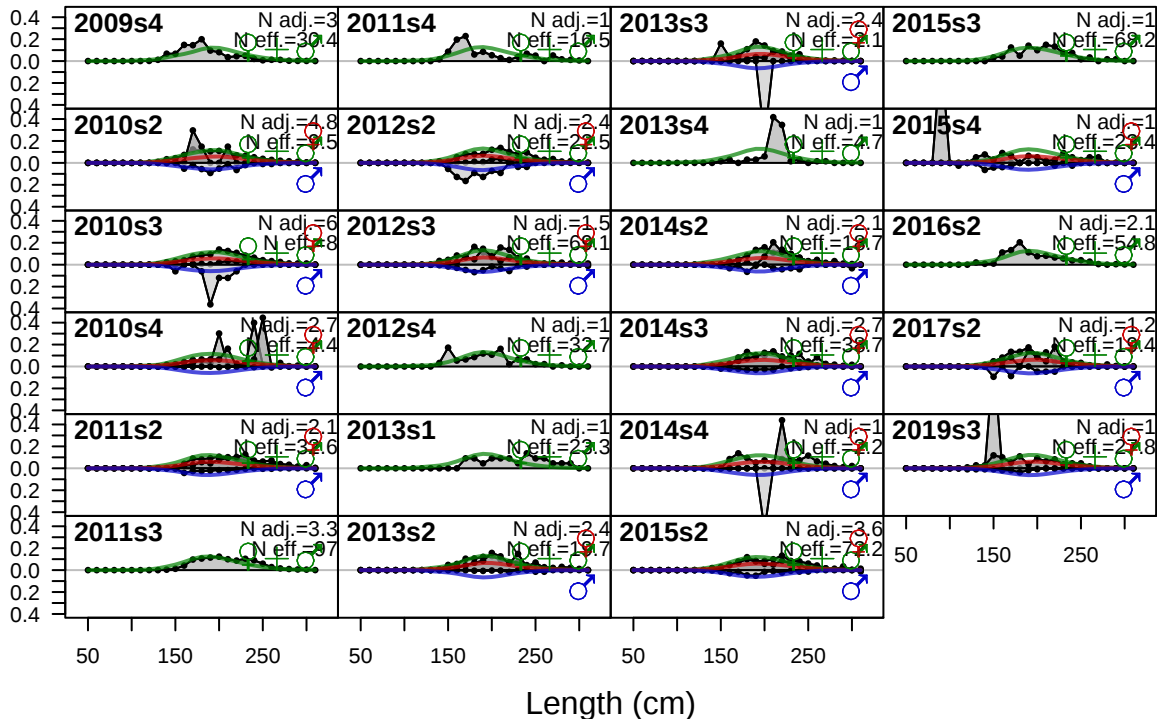
F2_GN_A4 (whole catch)

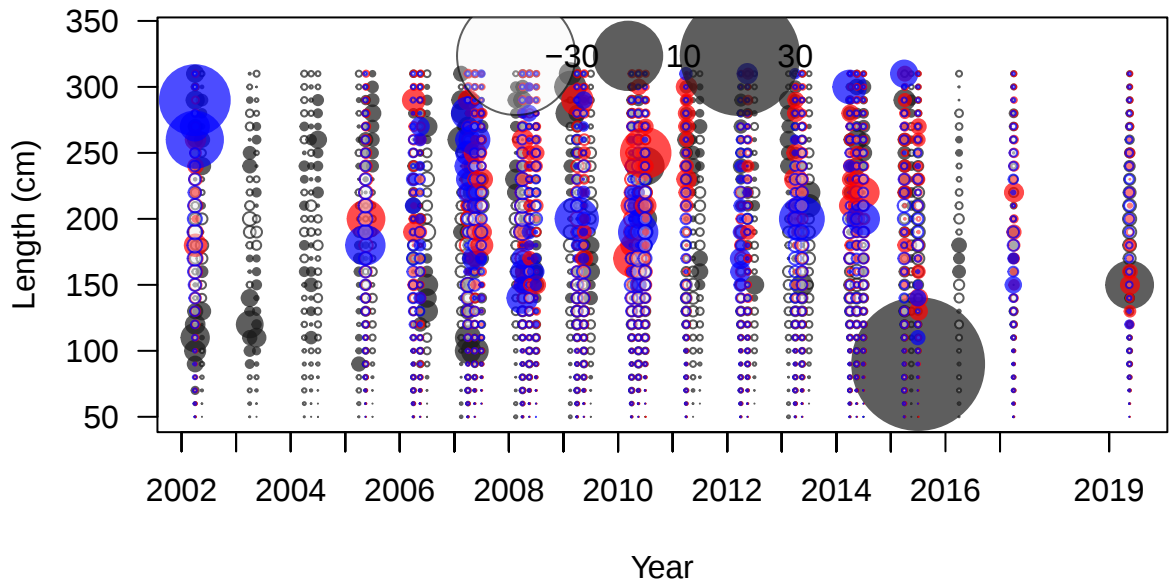


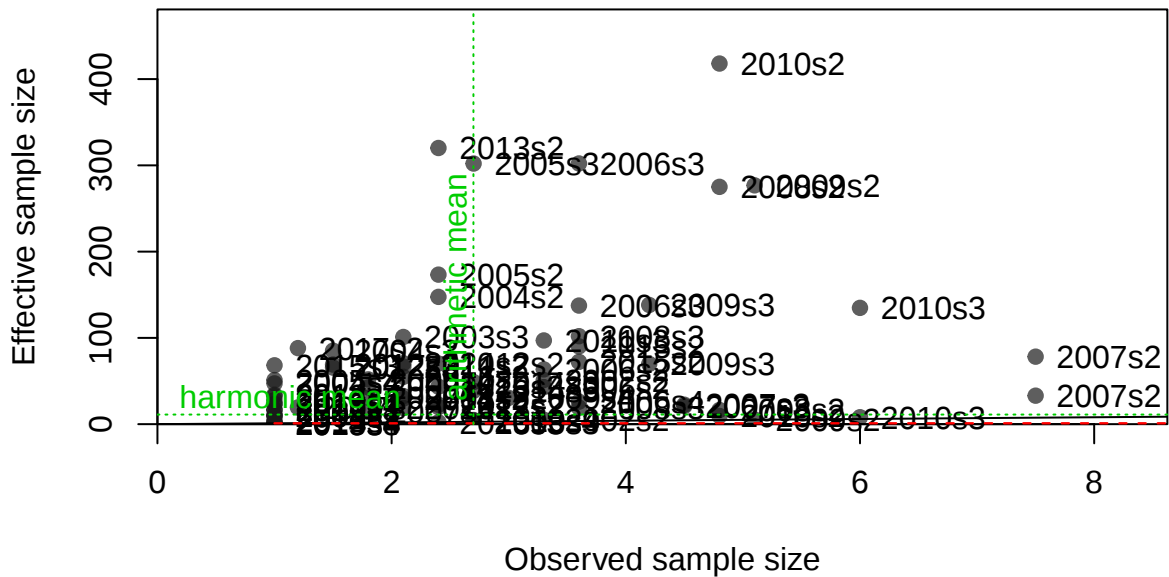
Proportion



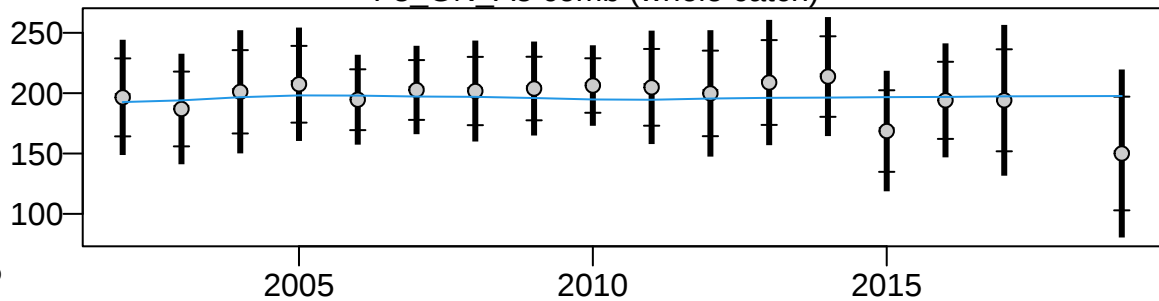
Proportion



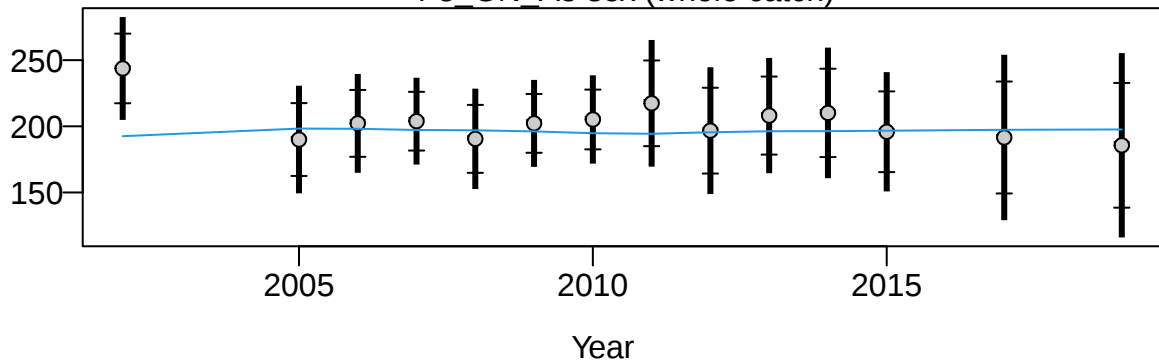




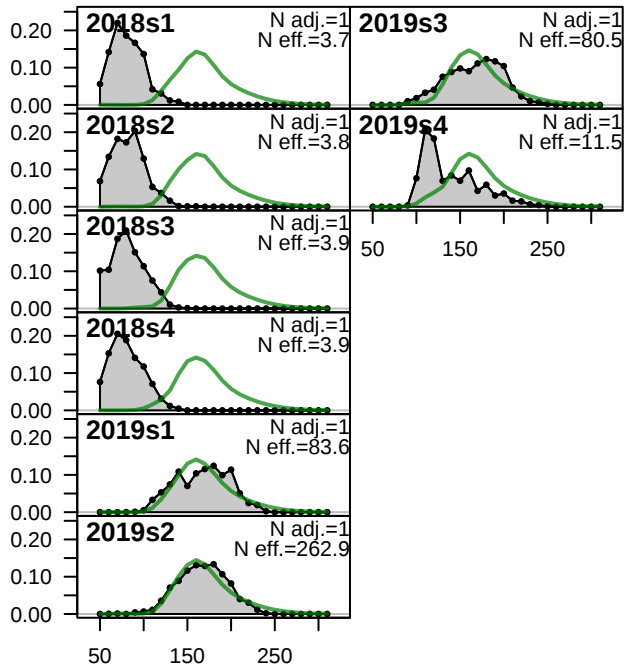
F3_GN_A5 comb (whole catch)



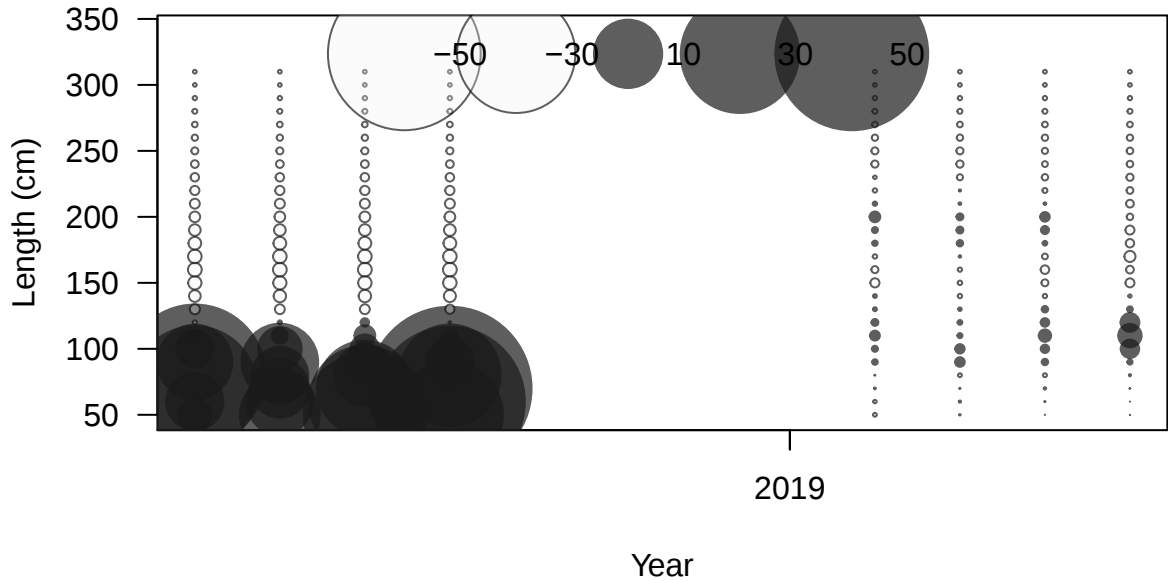
F3_GN_A5 sex (whole catch)



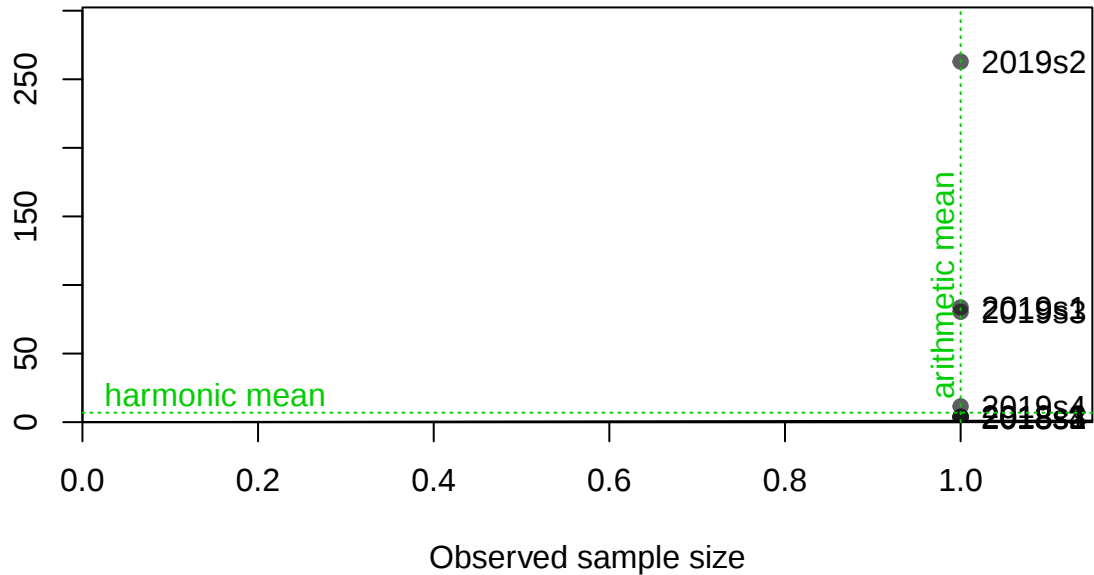
Proportion



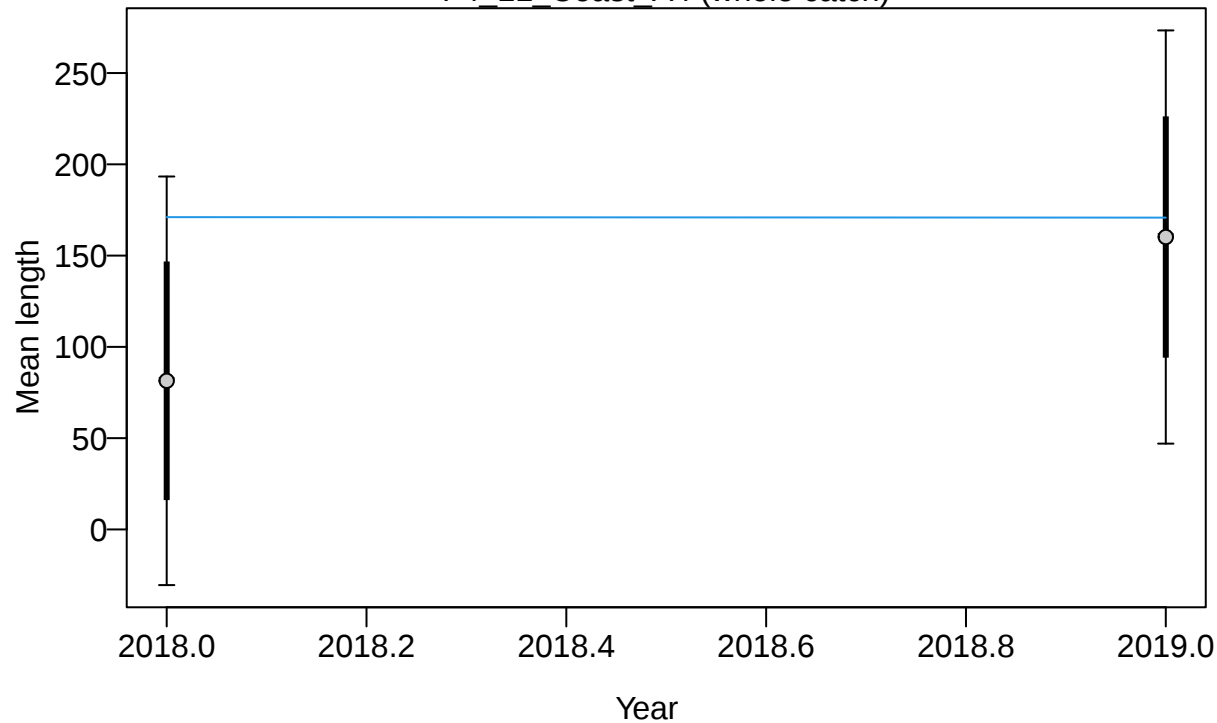
Length (cm)



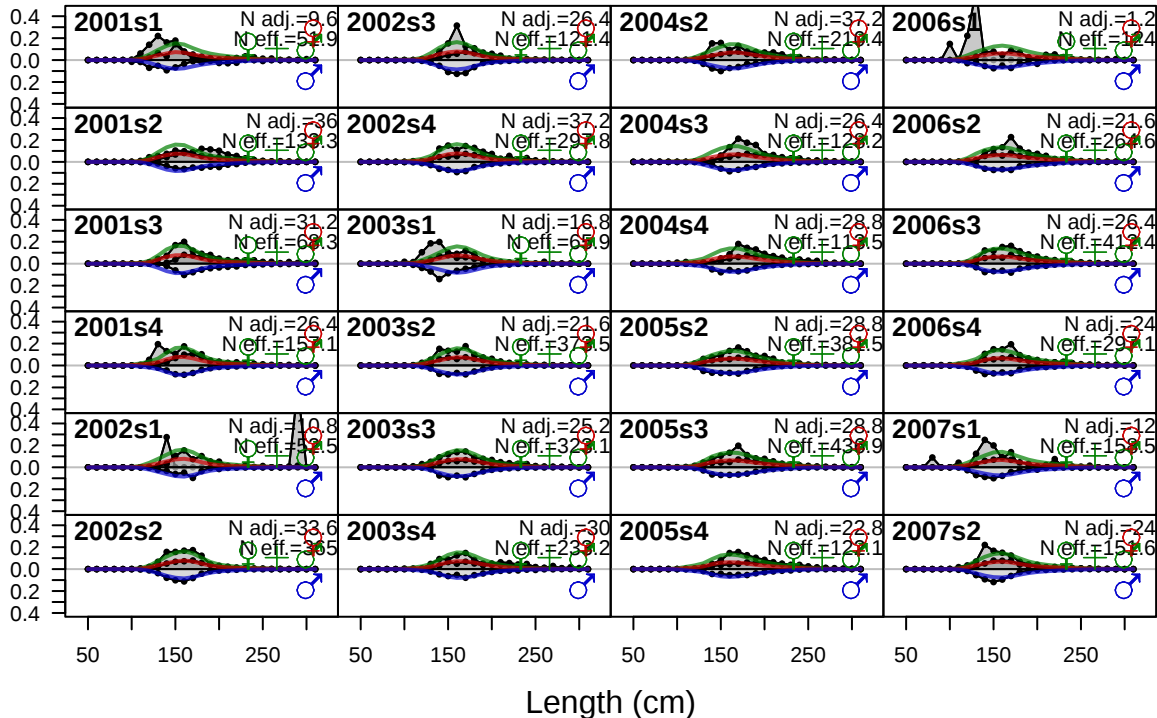
Effective sample size



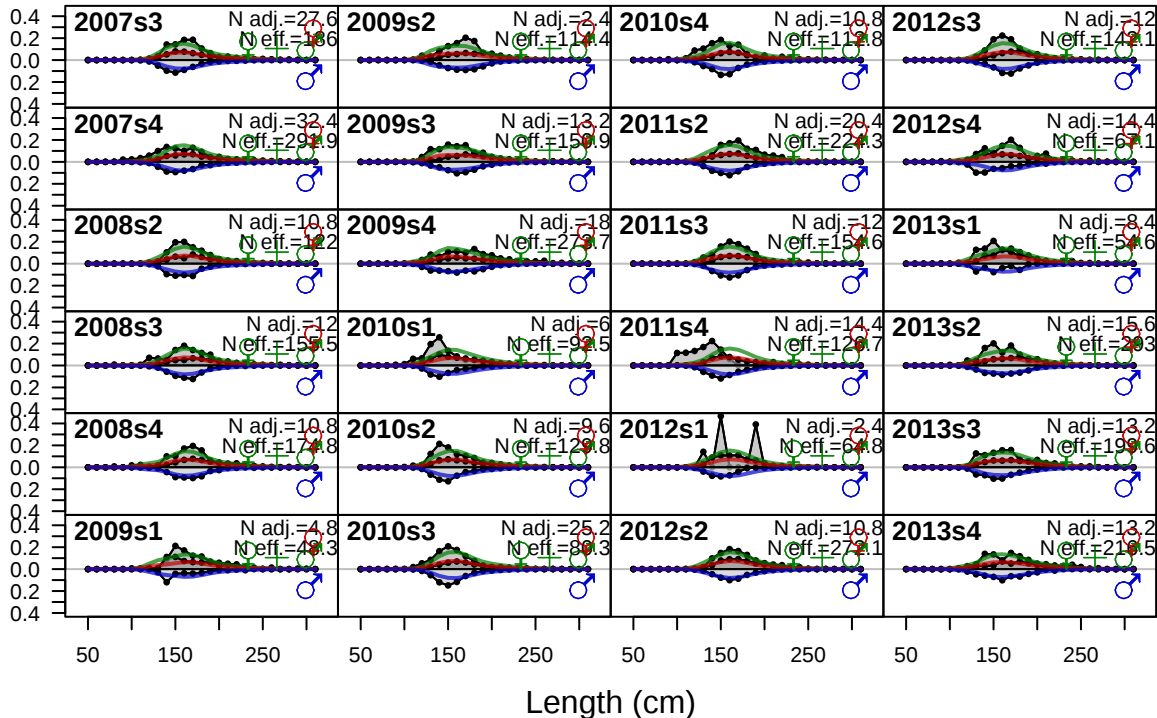
F4_LL_Coast_A4 (whole catch)



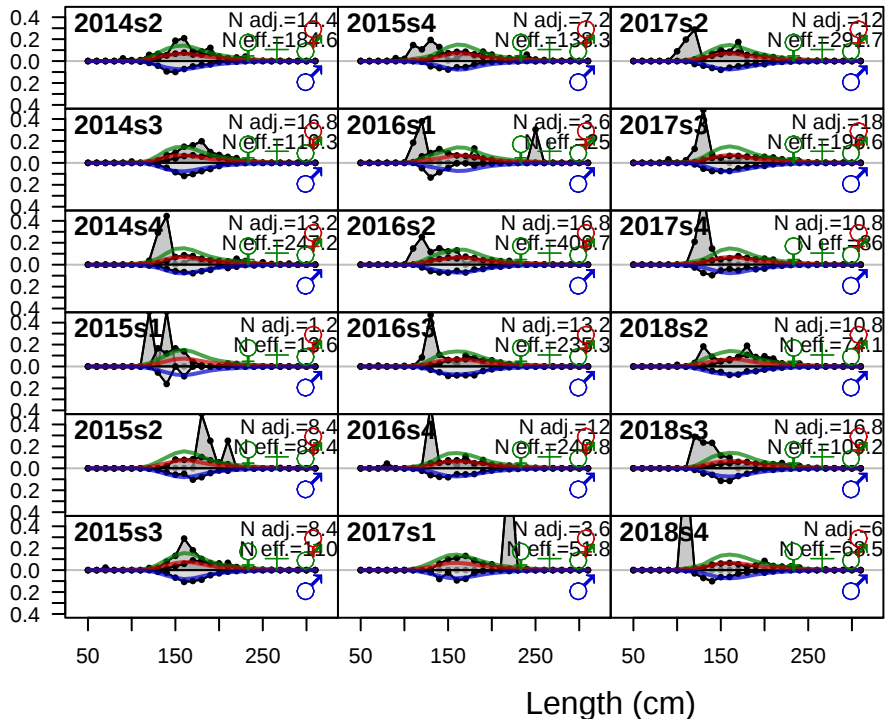
Proportion

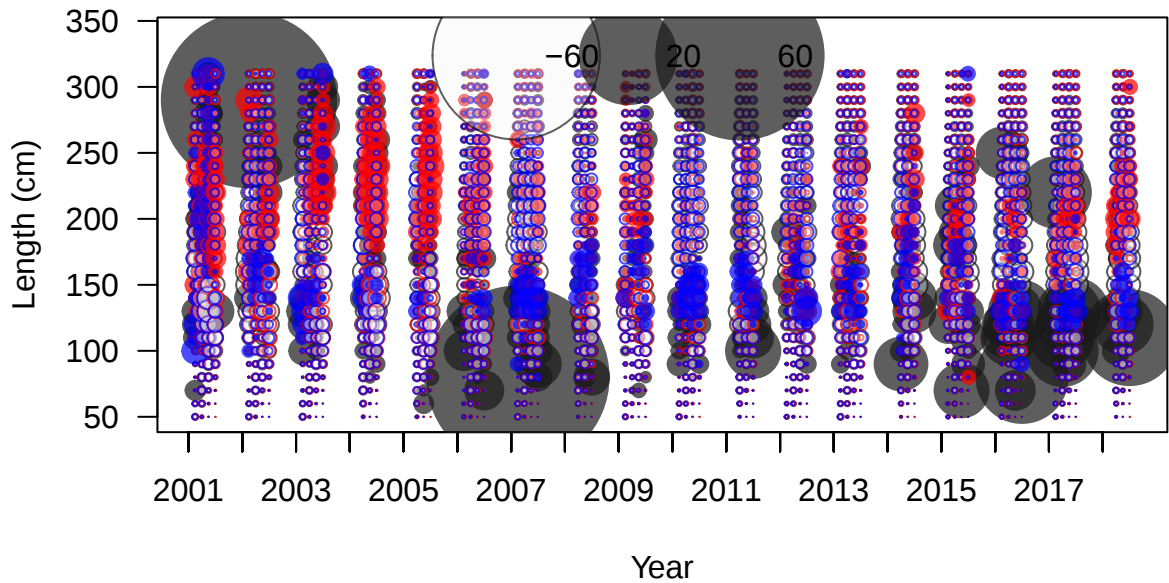


Proportion

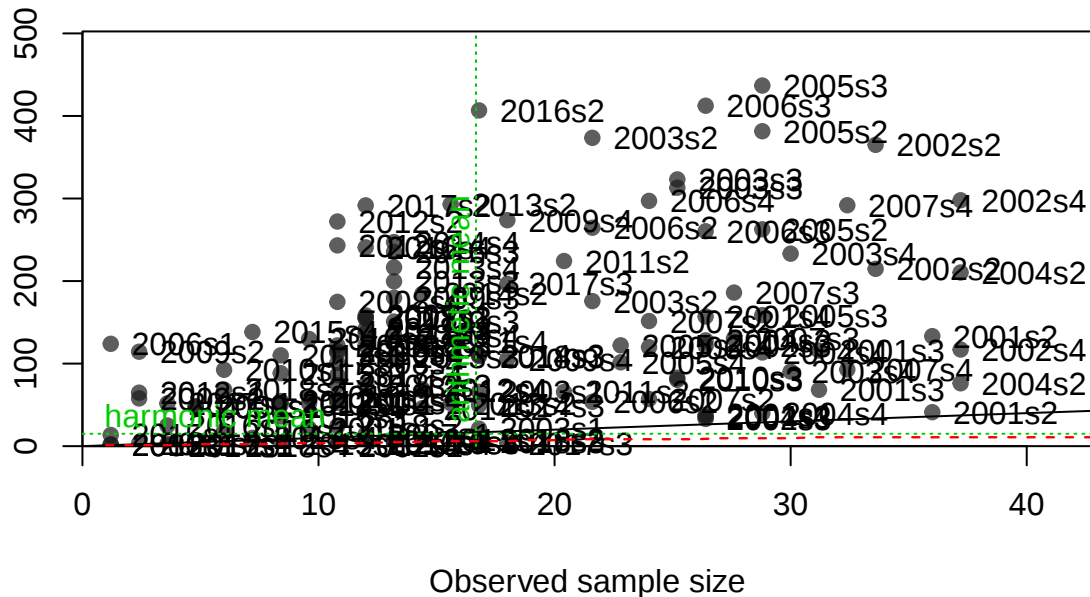


Proportion

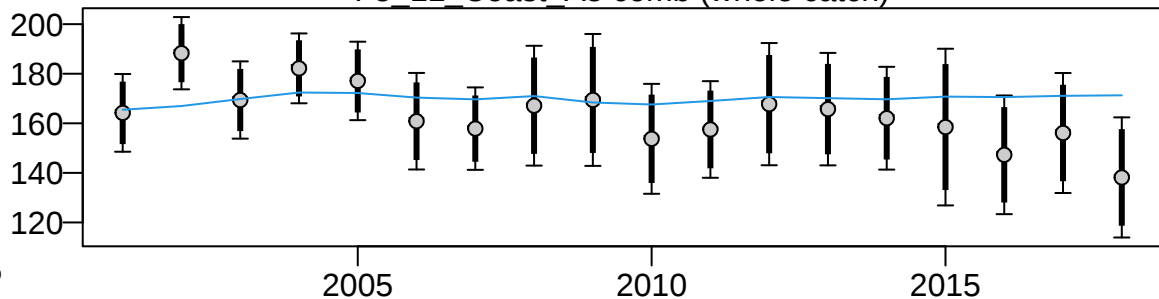




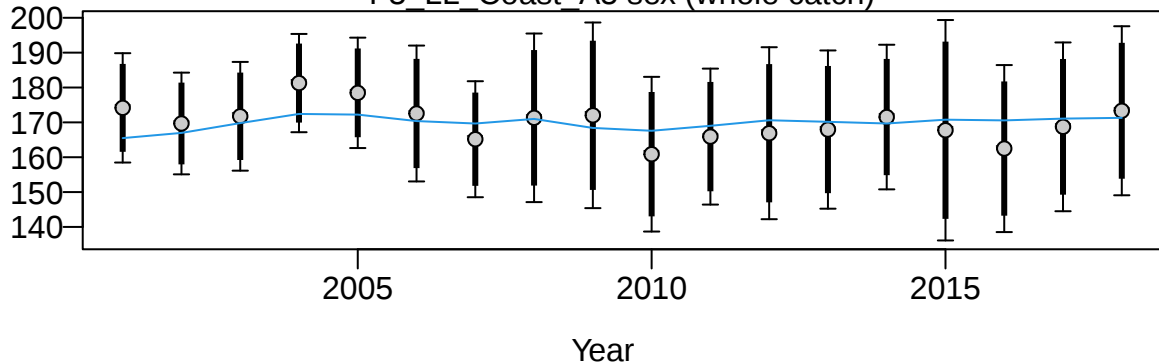
Effective sample size



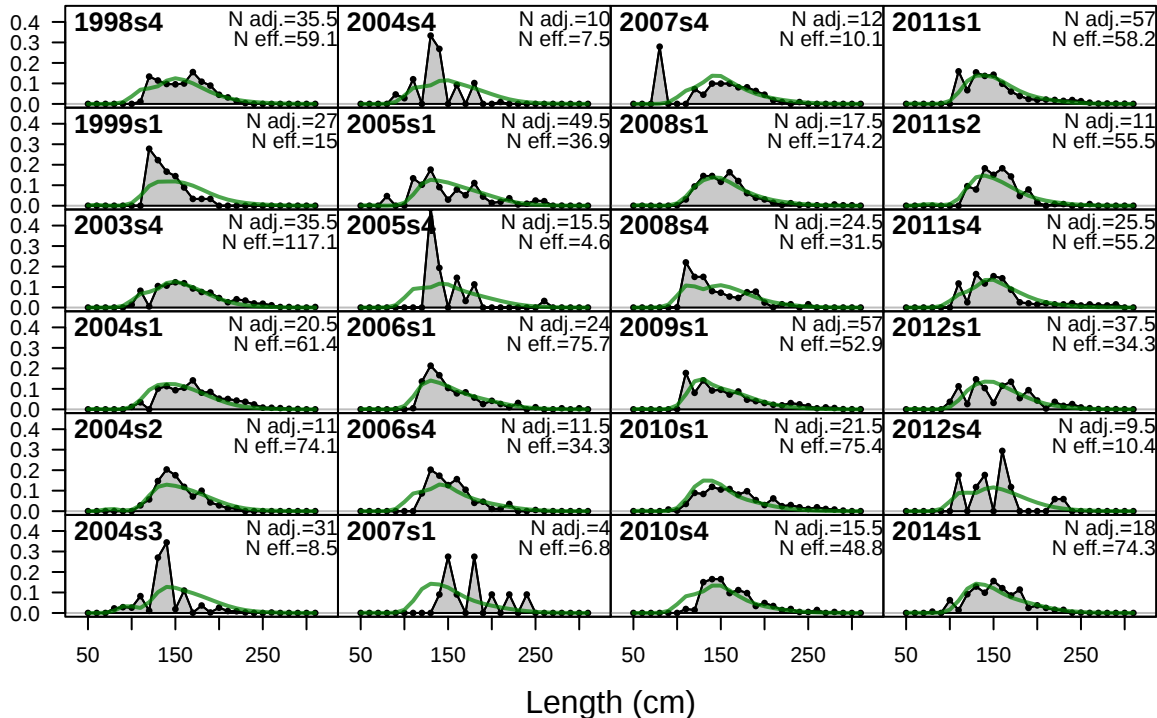
F5_LL_Coast_A5 comb (whole catch)



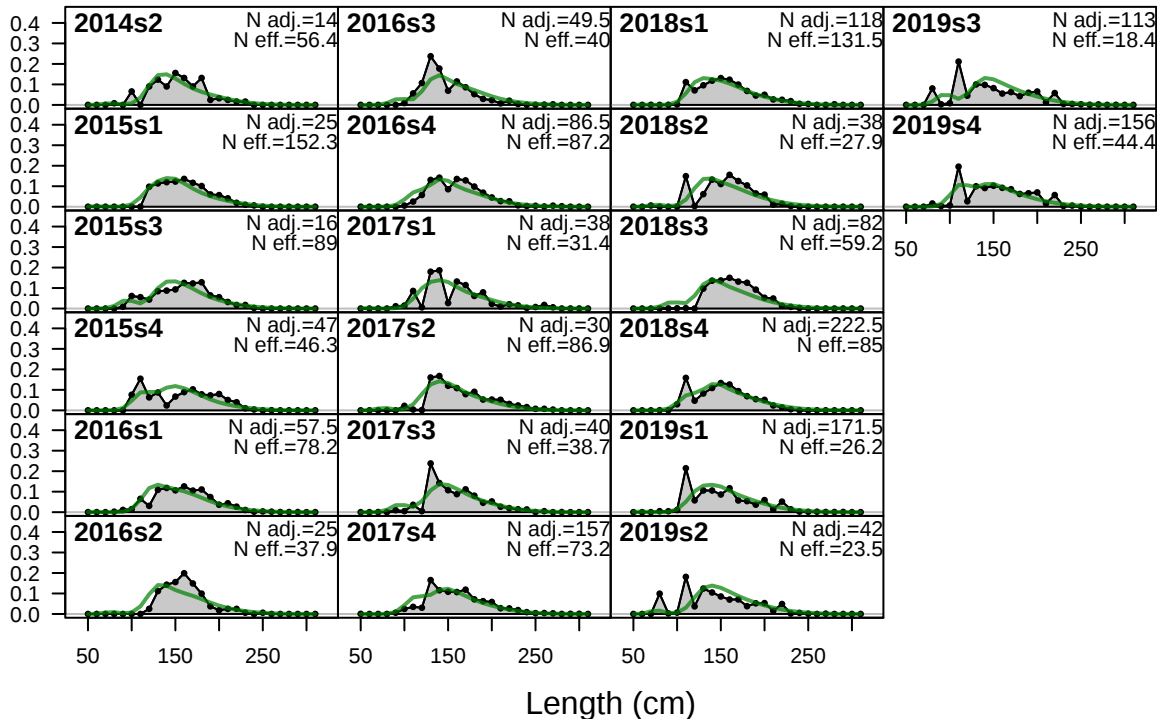
F5_LL_Coast_A5 sex (whole catch)

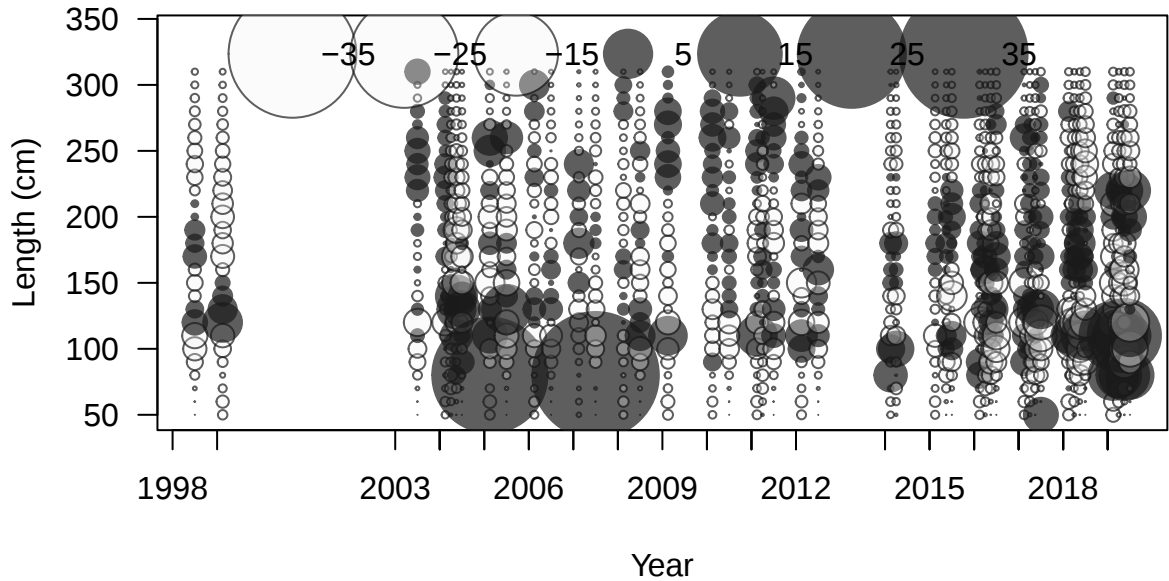


Proportion

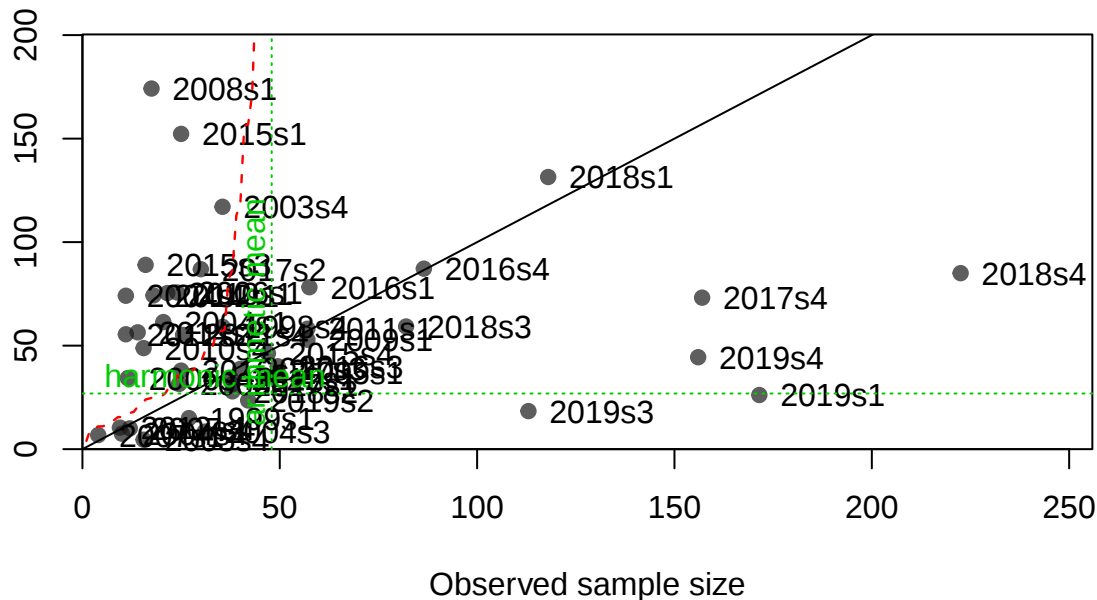


Proportion

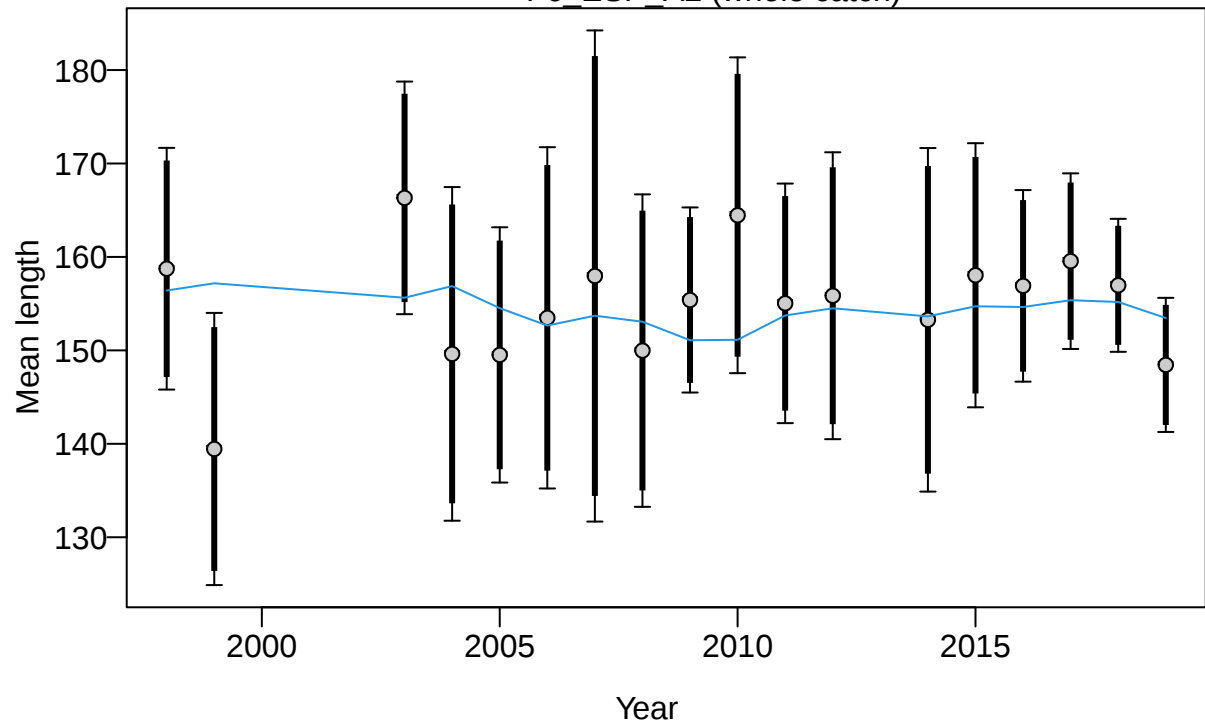


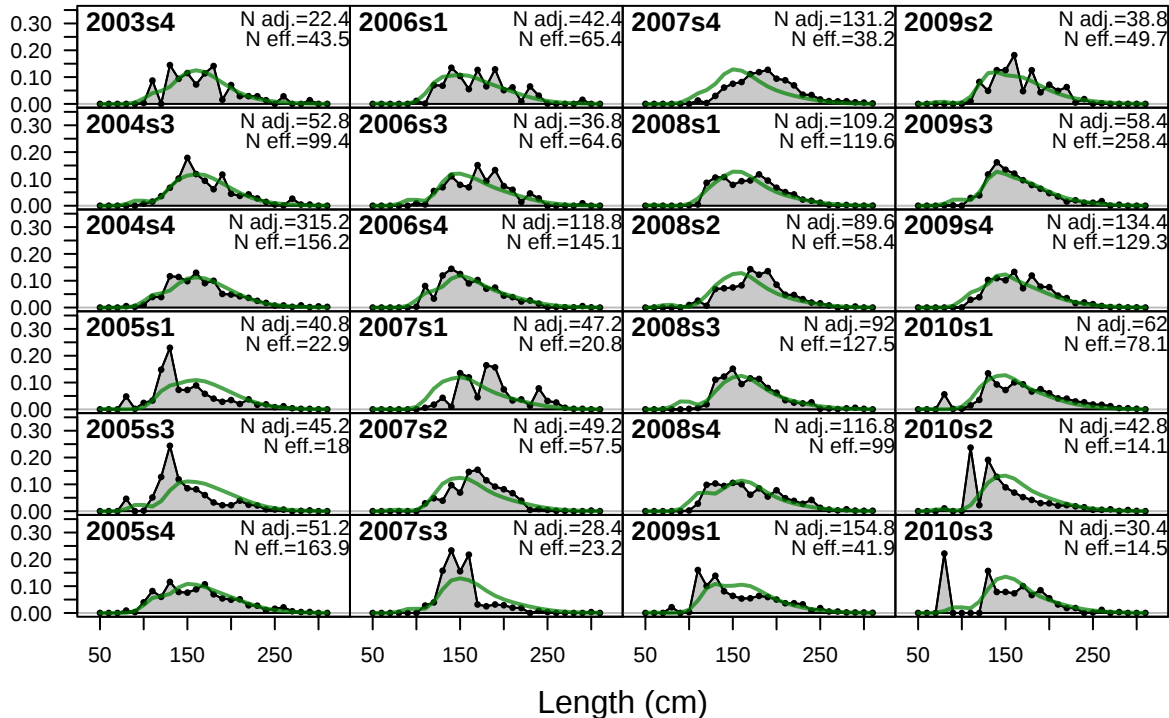


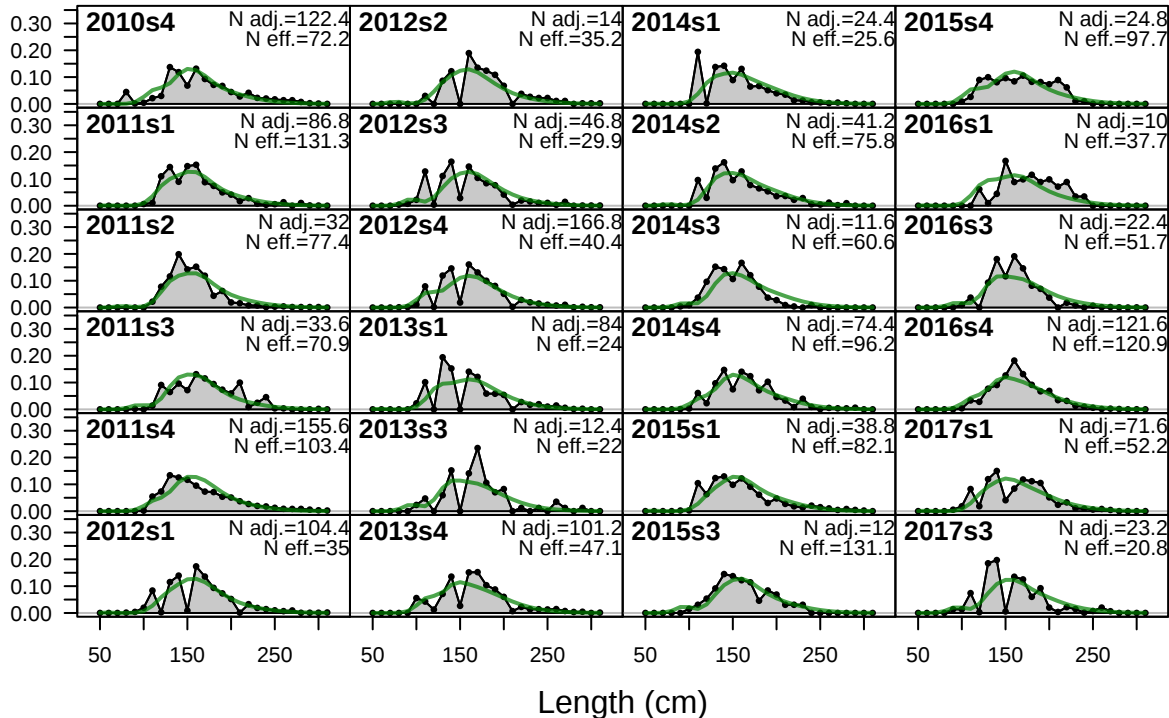
Effective sample size



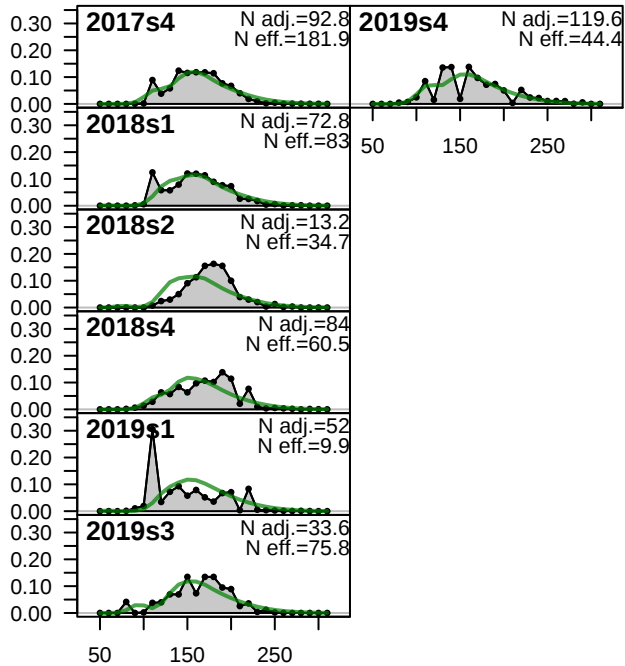
F6_ESP_A2 (whole catch)



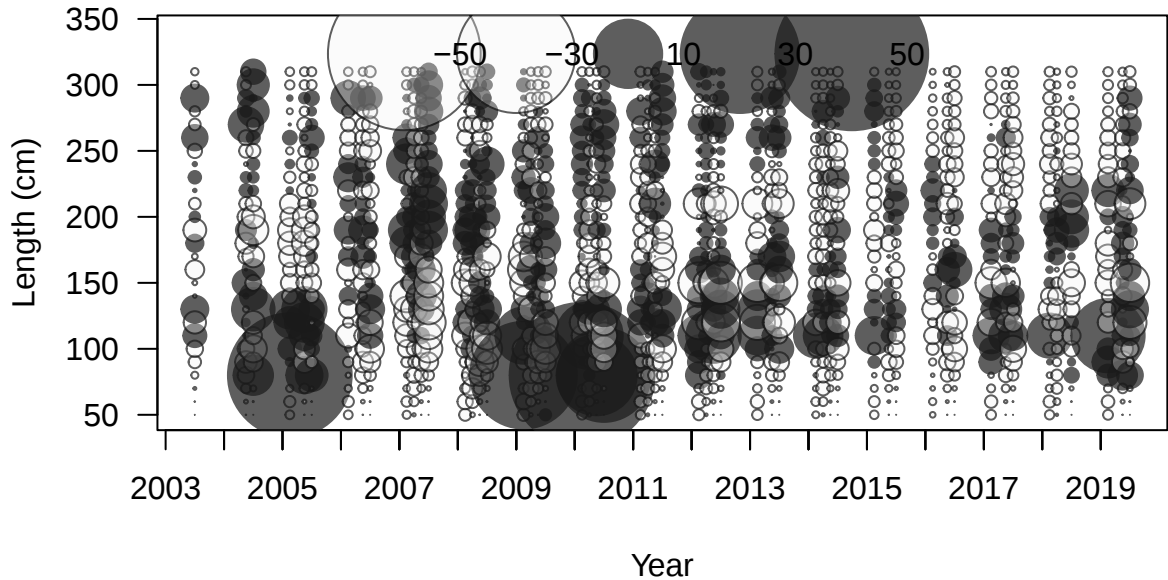




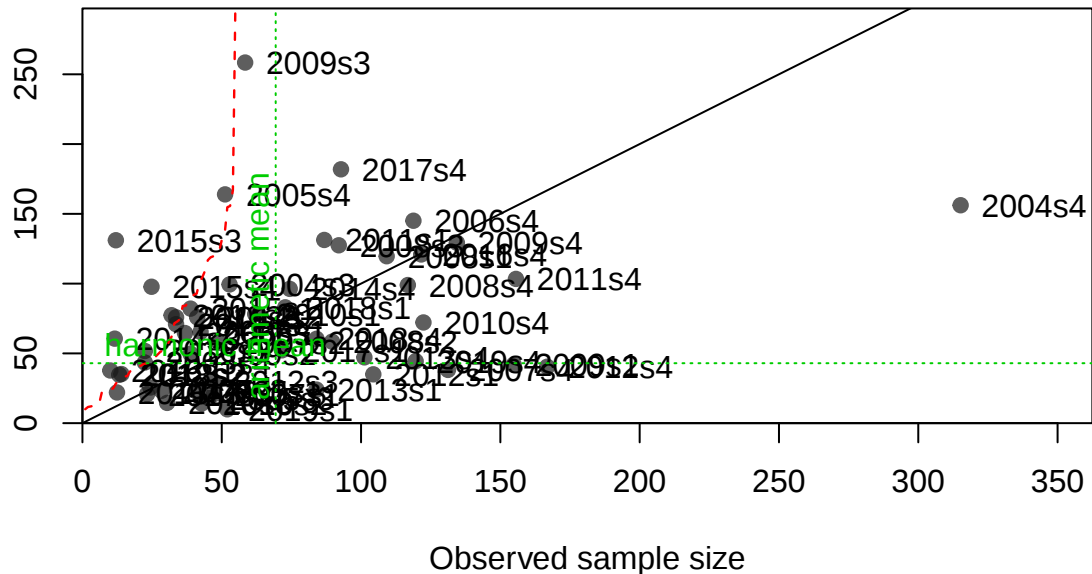
Proportion



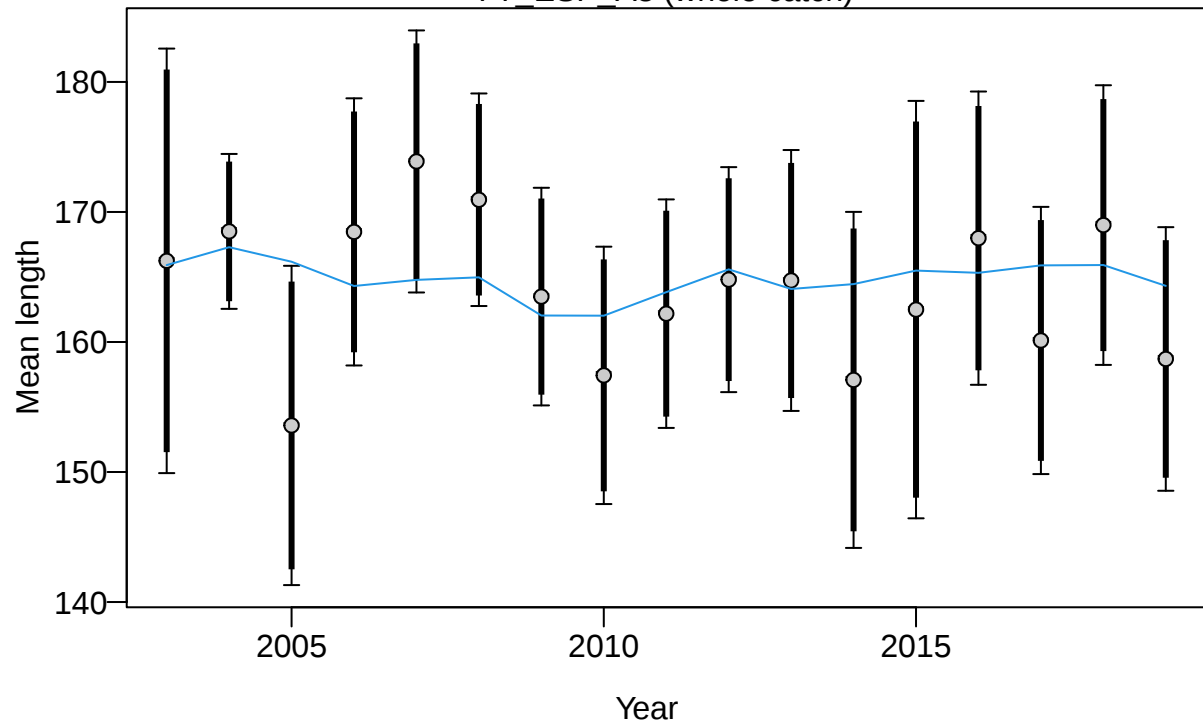
Length (cm)



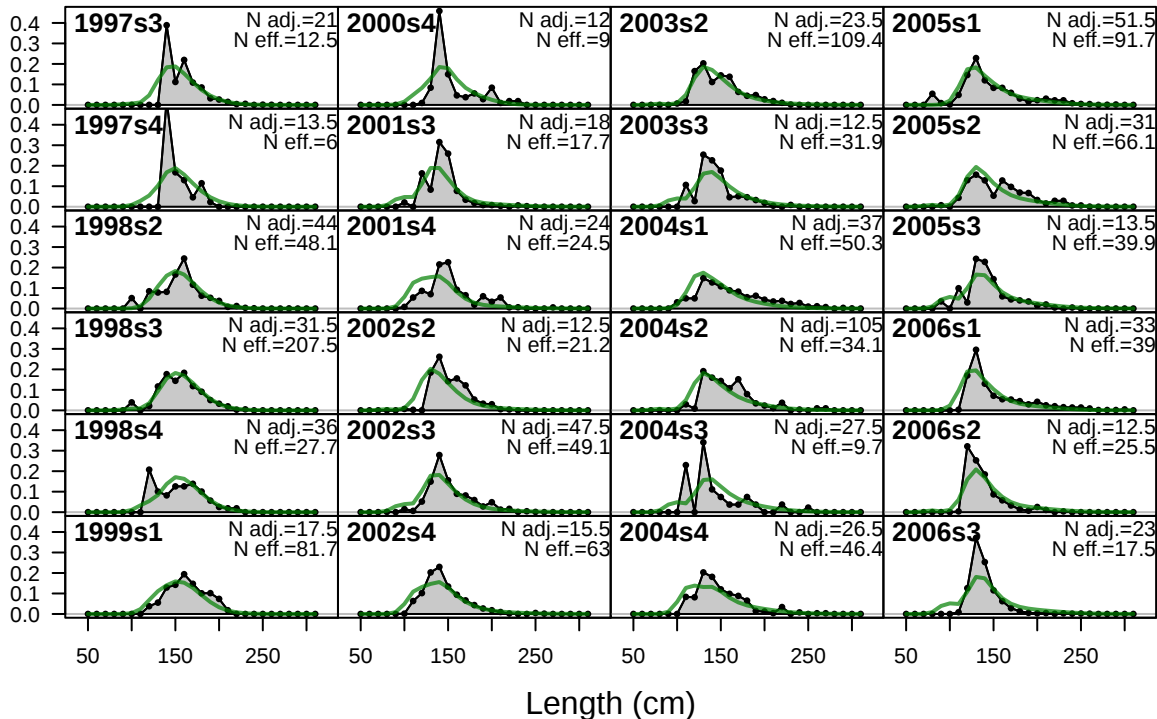
Effective sample size

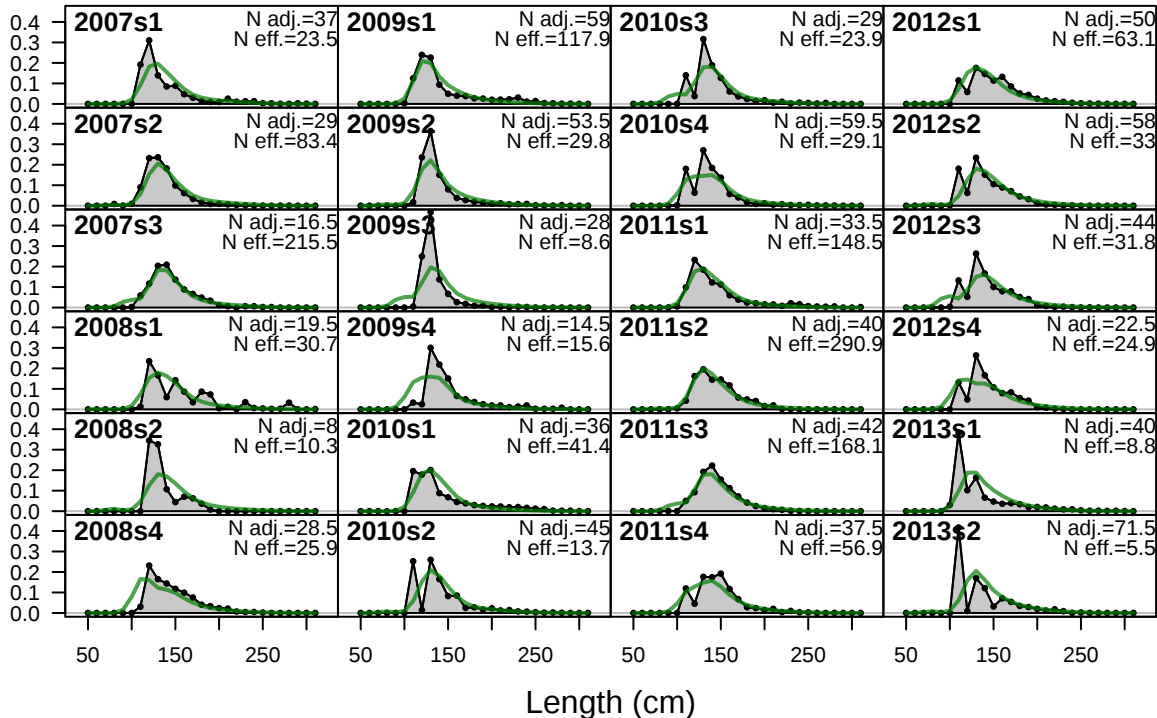


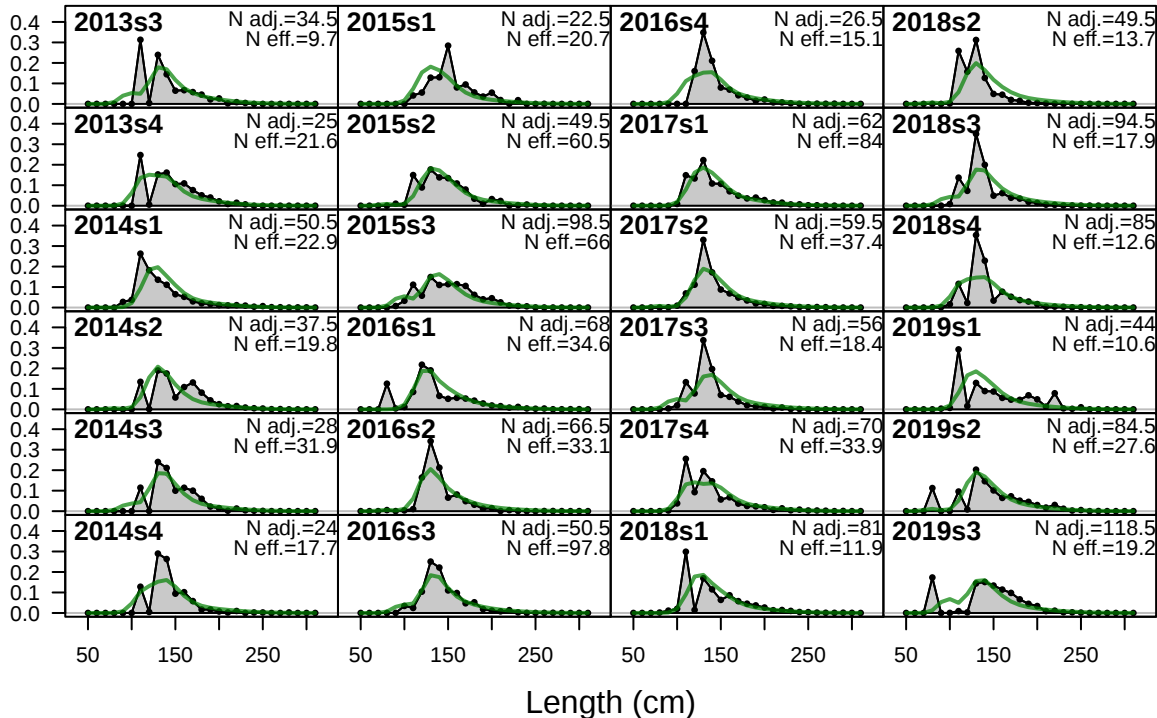
F7_ESP_A3 (whole catch)

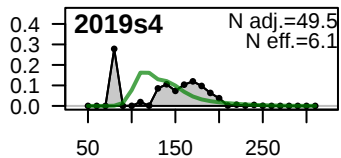


Proportion



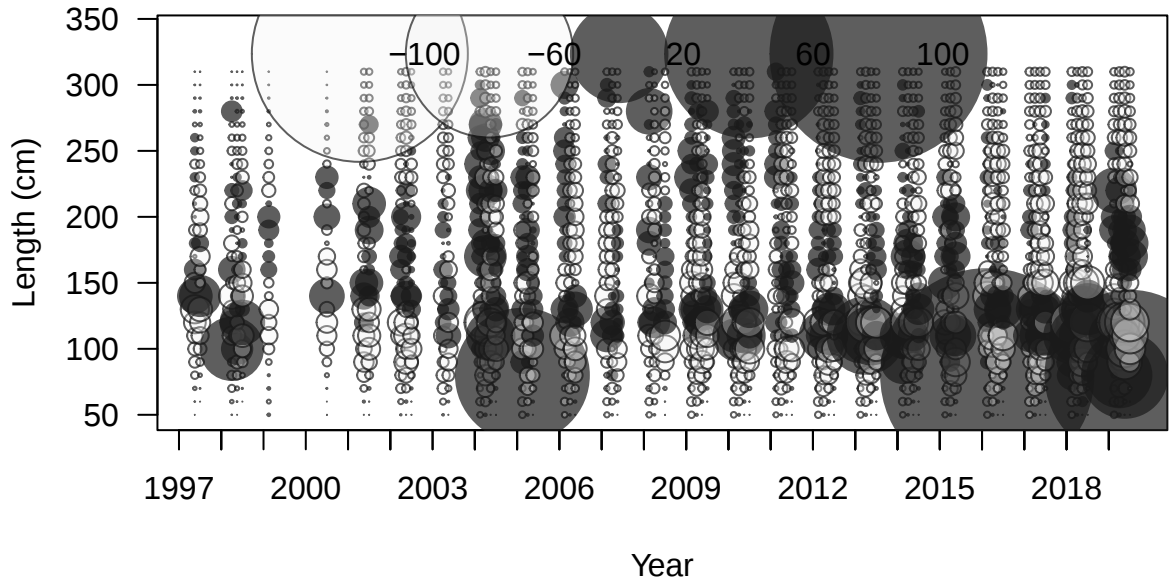




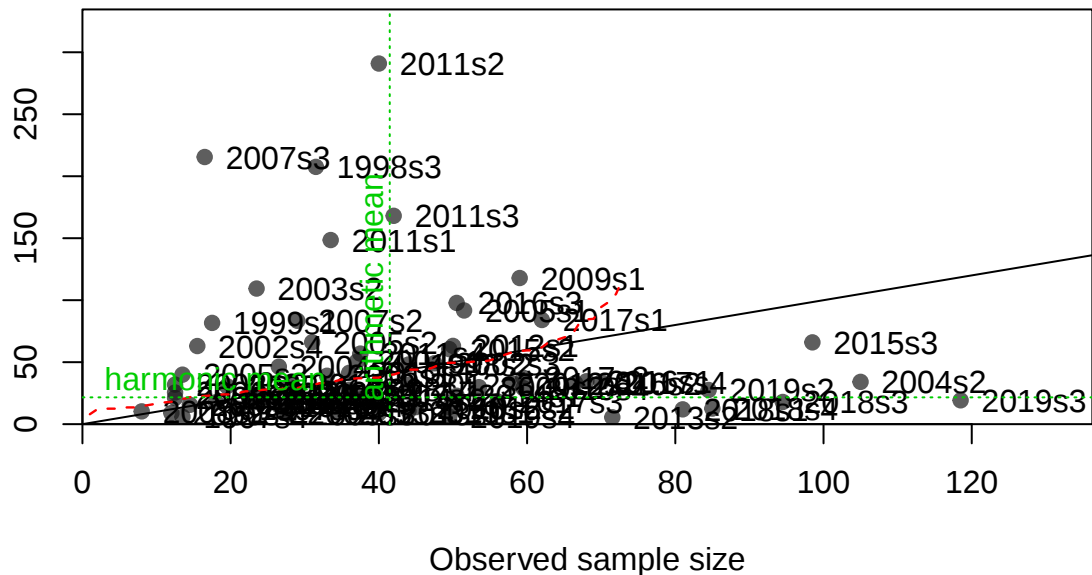


Proportion

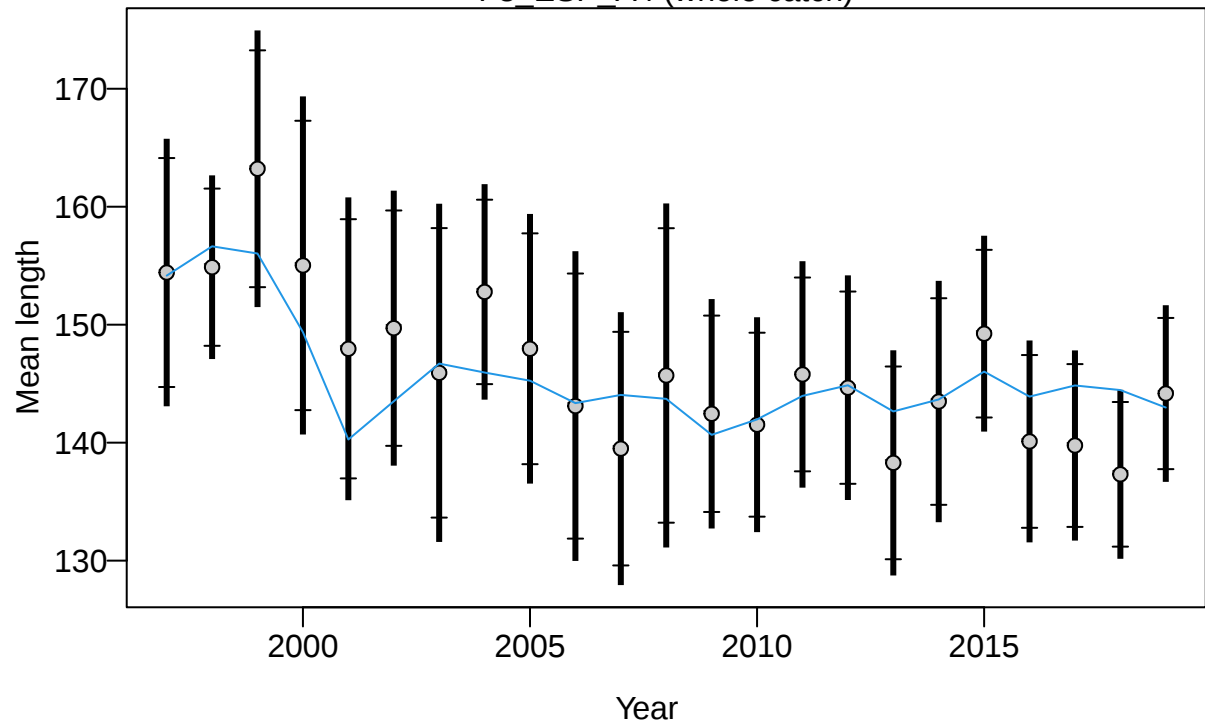
Length (cm)

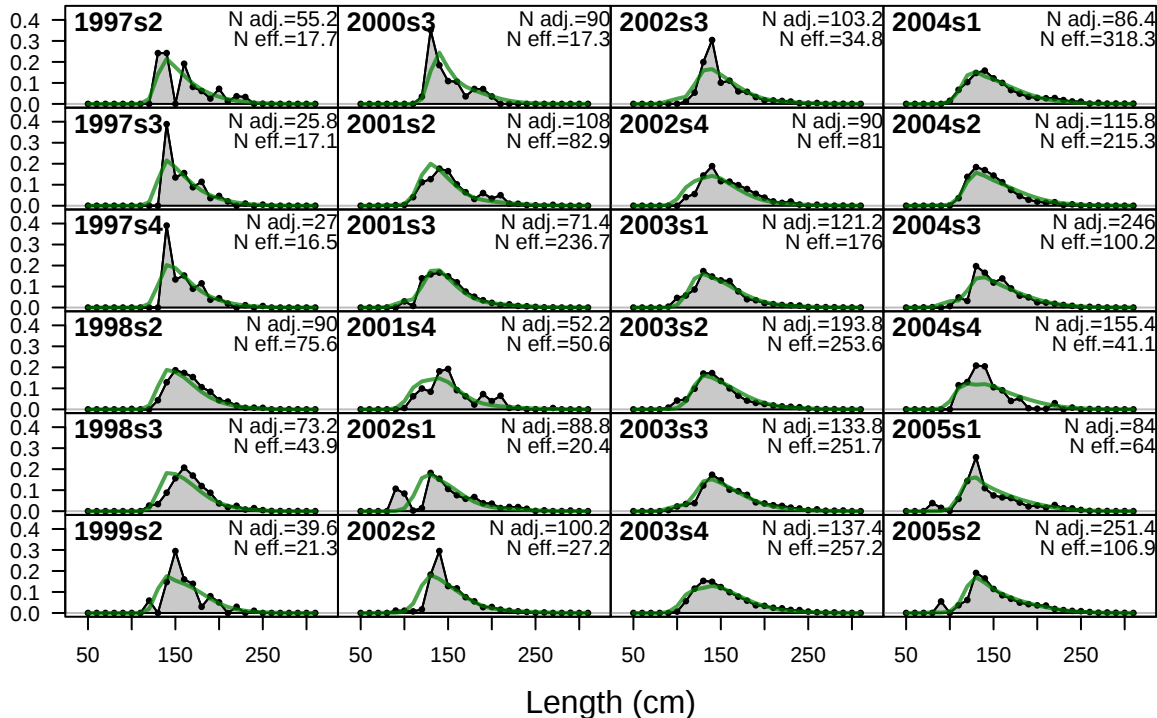


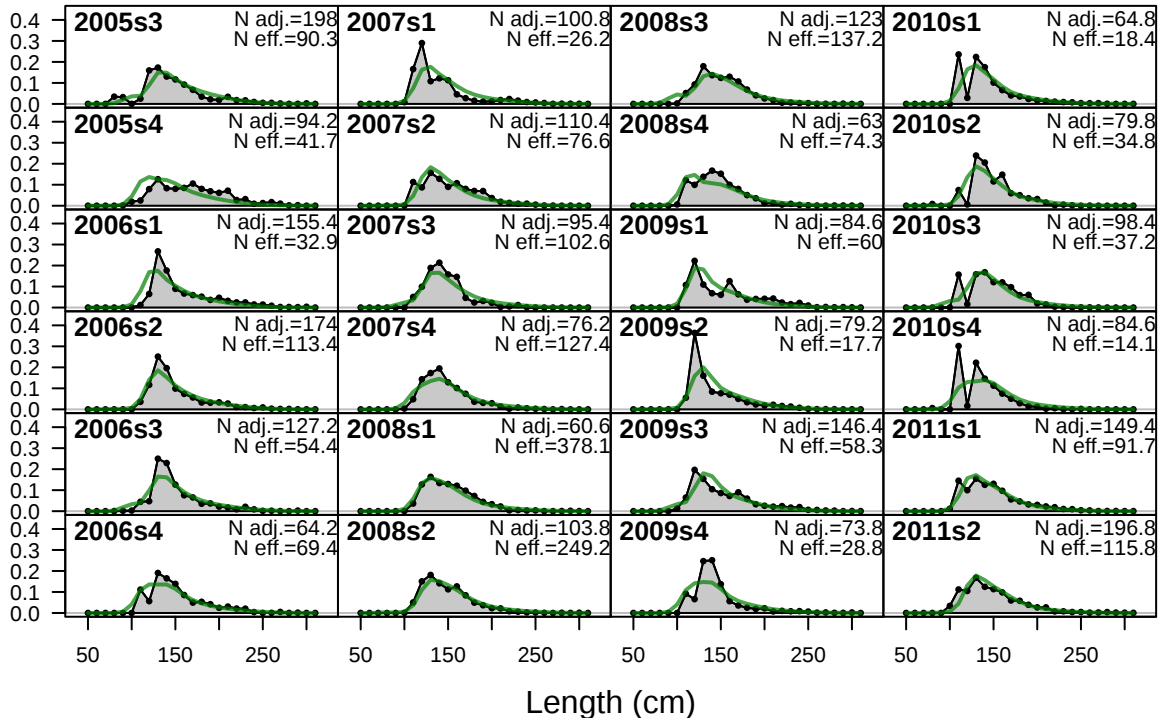
Effective sample size

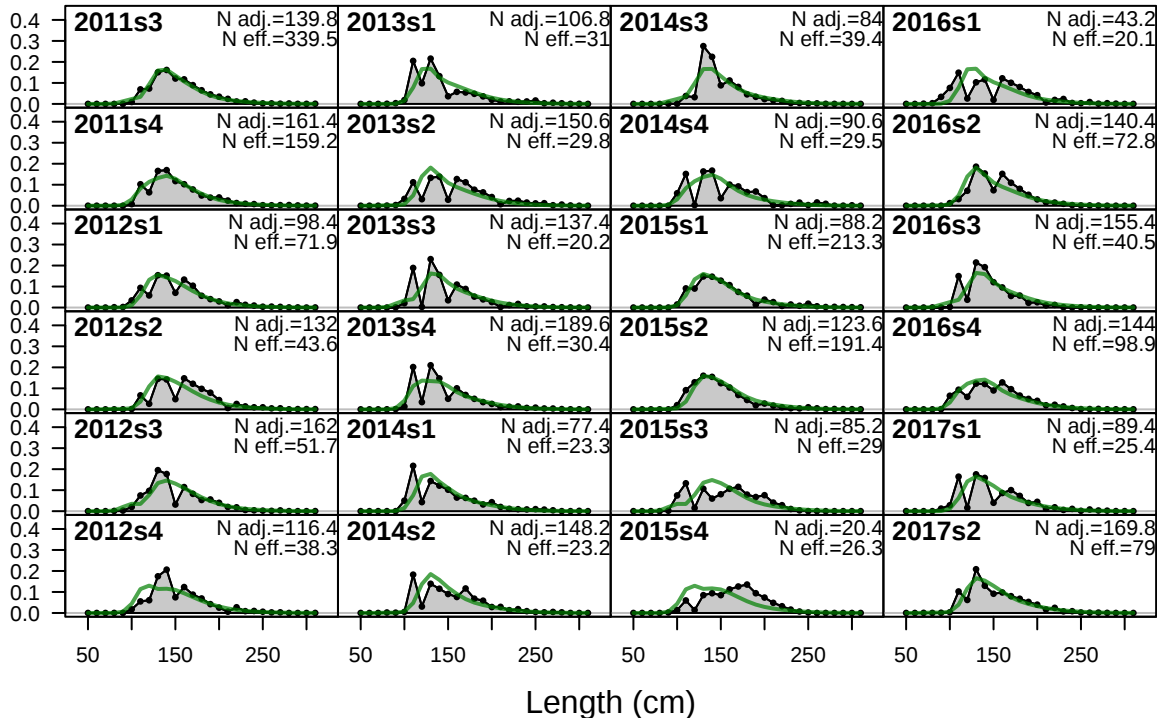


F8_ESP_A4 (whole catch)

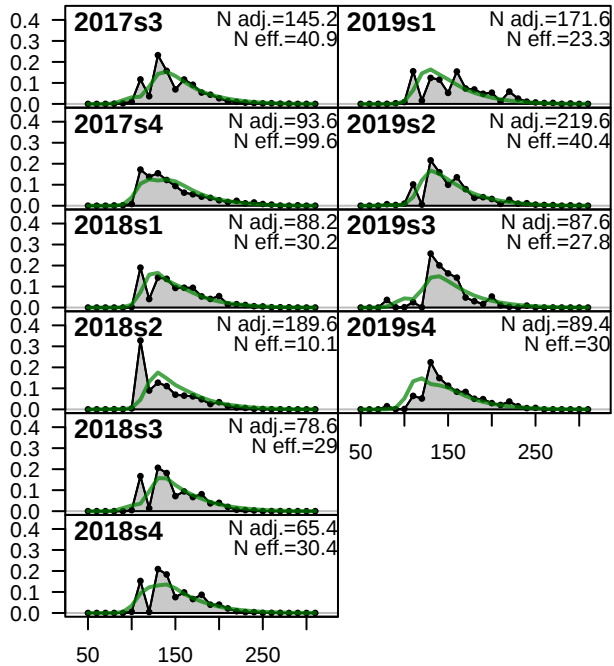




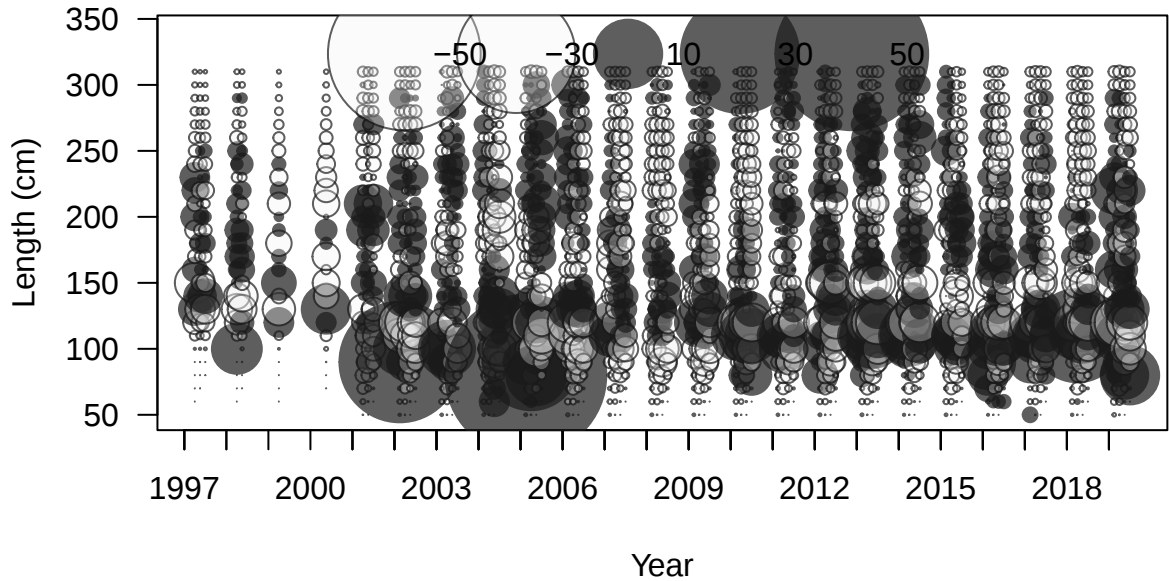


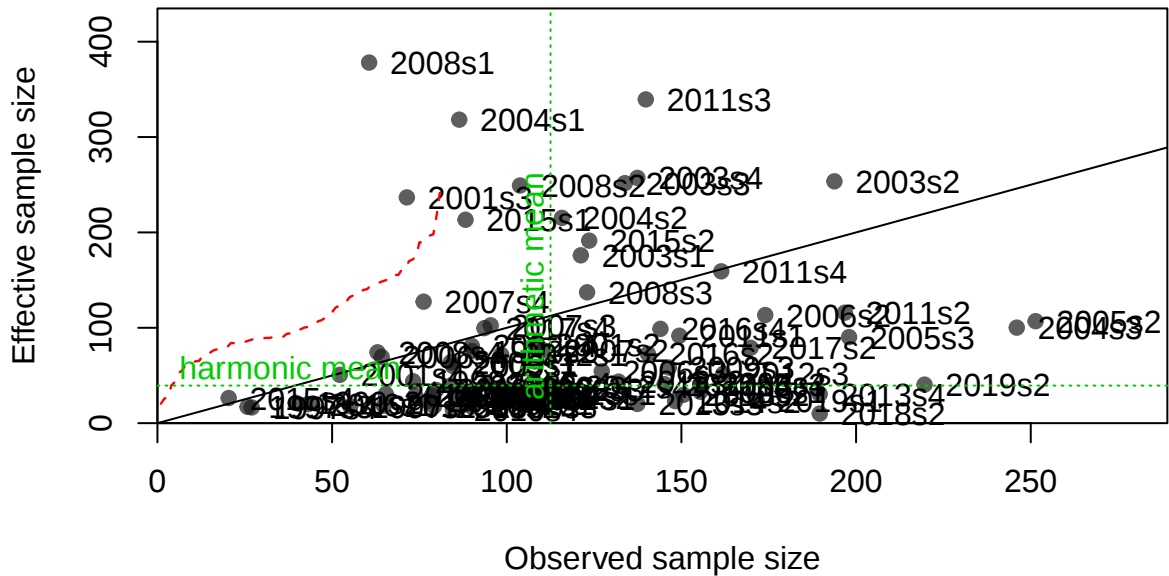


Proportion

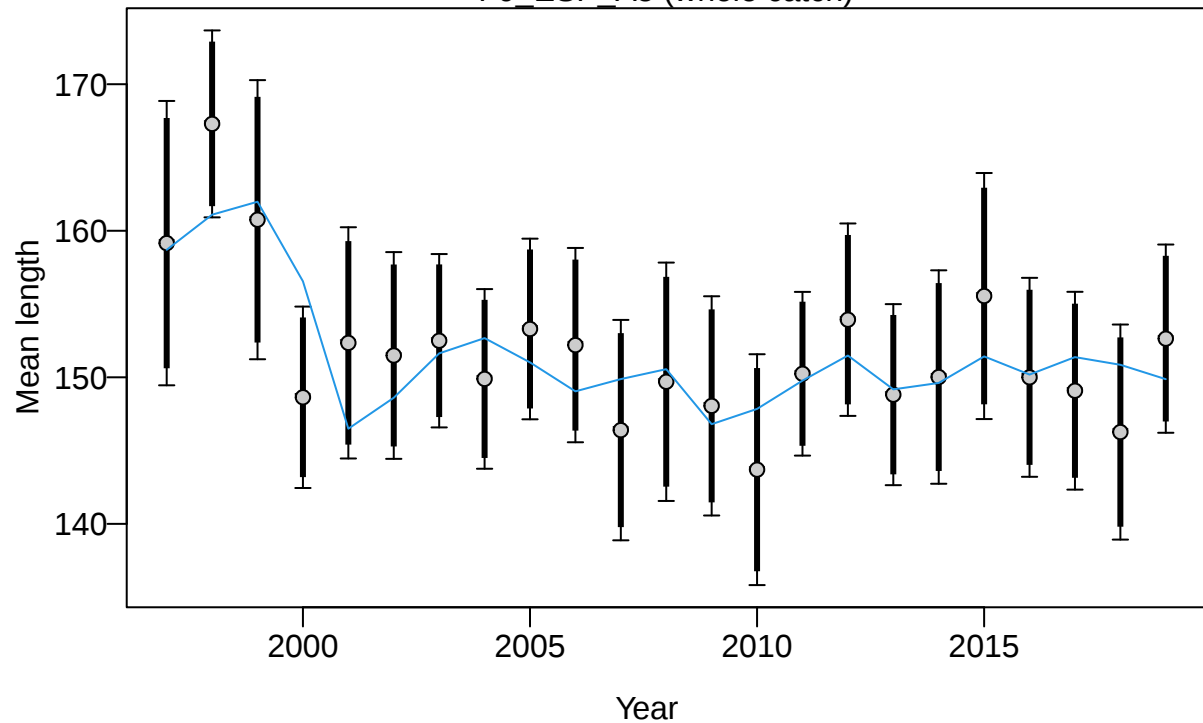


Length (cm)

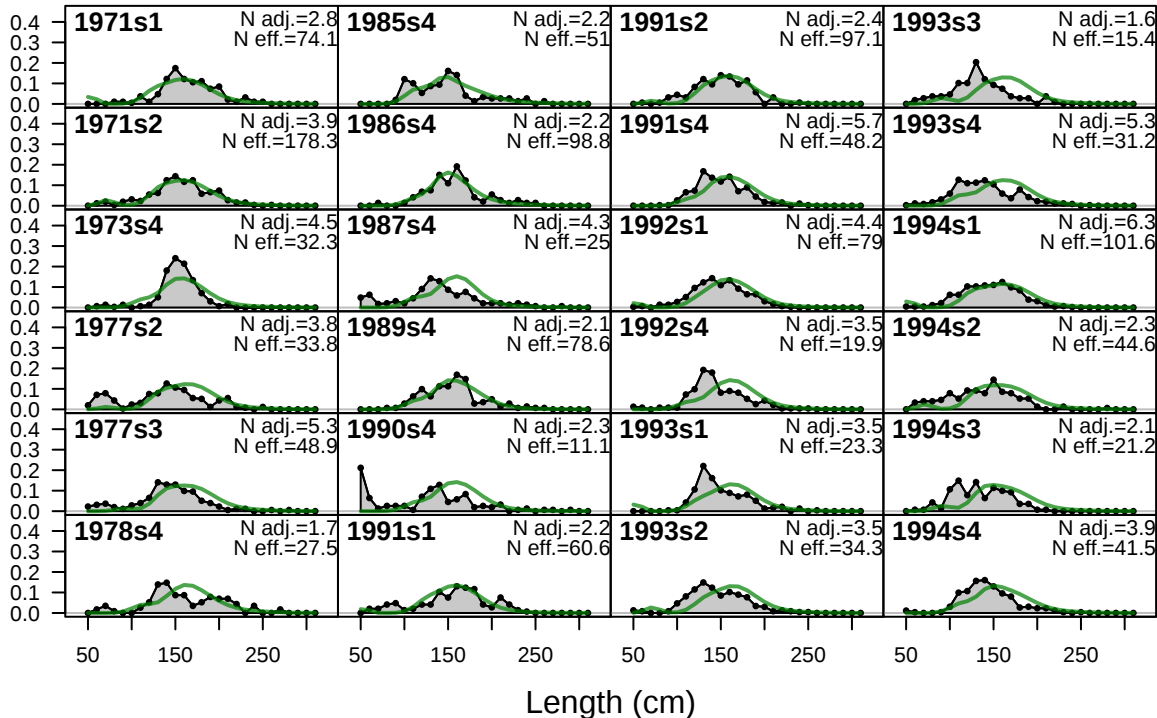




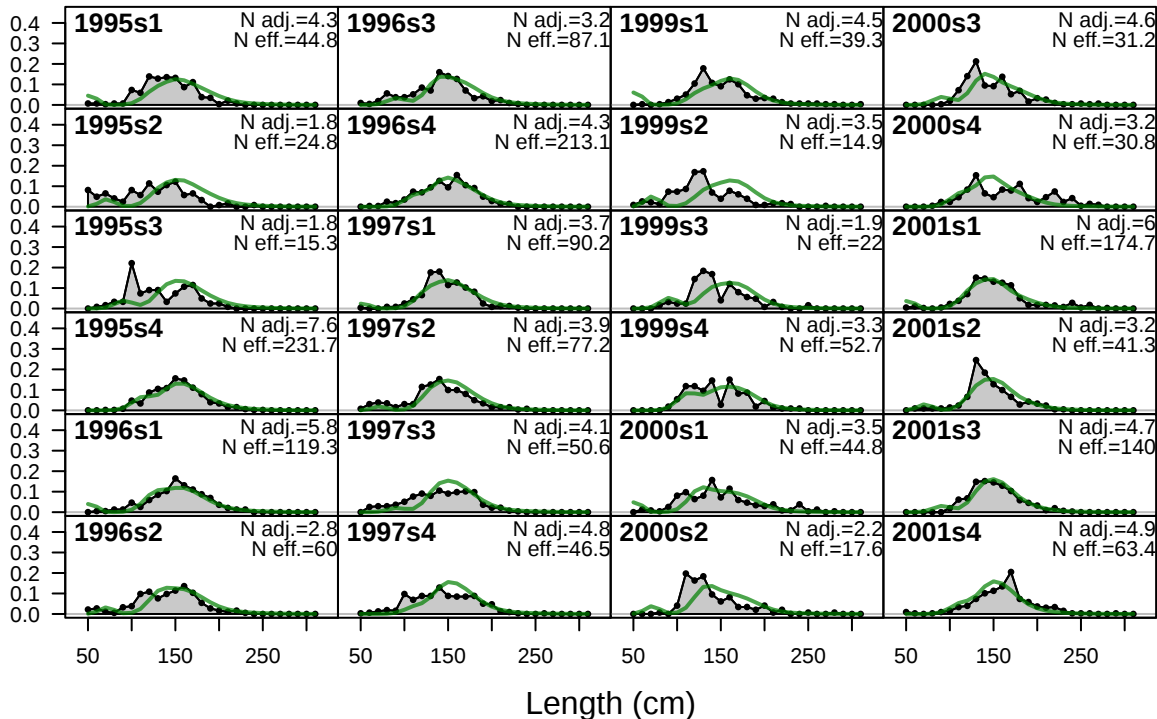
F9_ESP_A5 (whole catch)

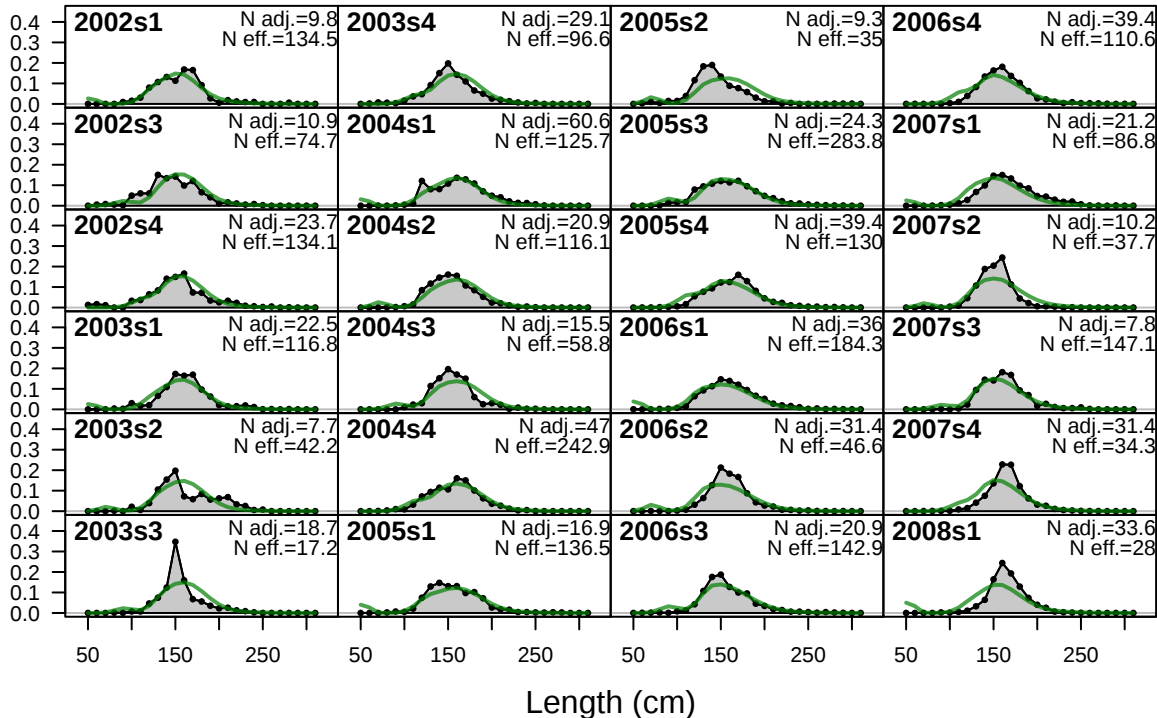


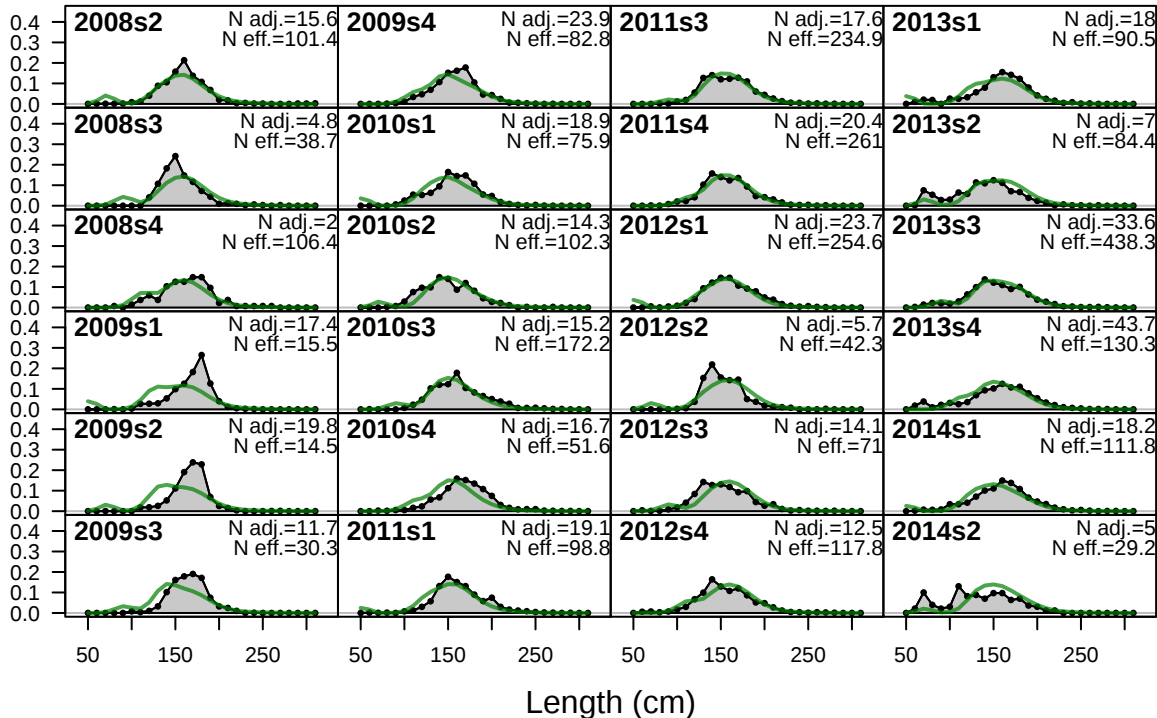
Proportion



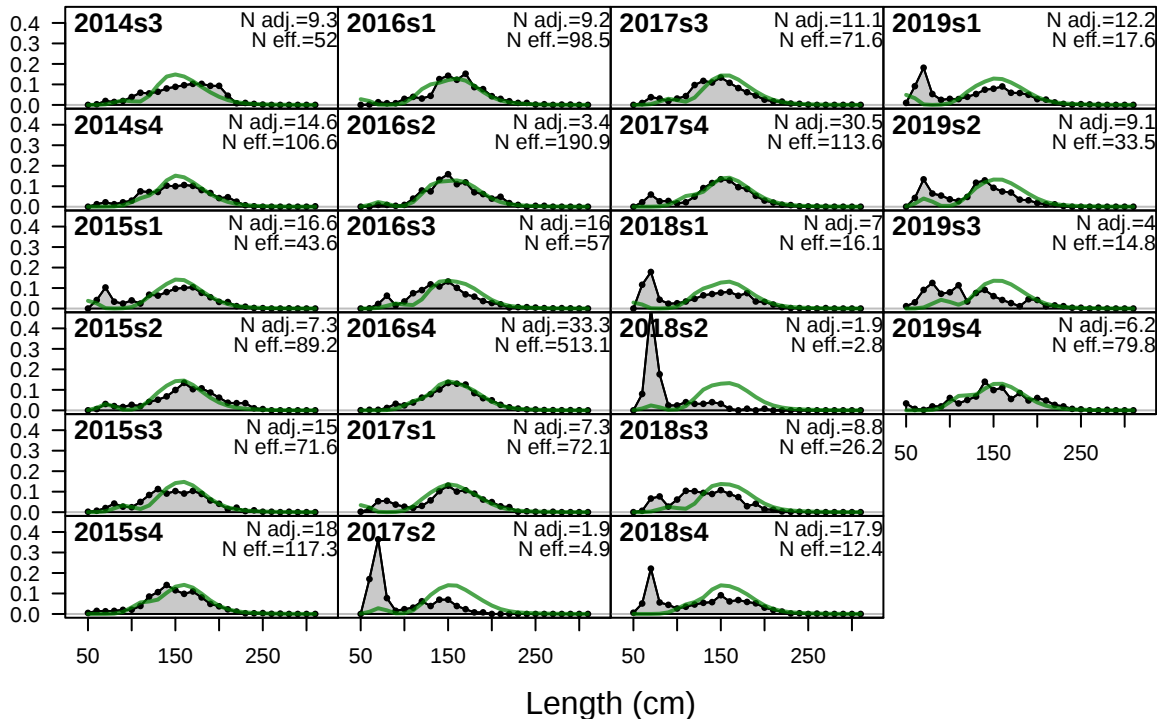
Proportion

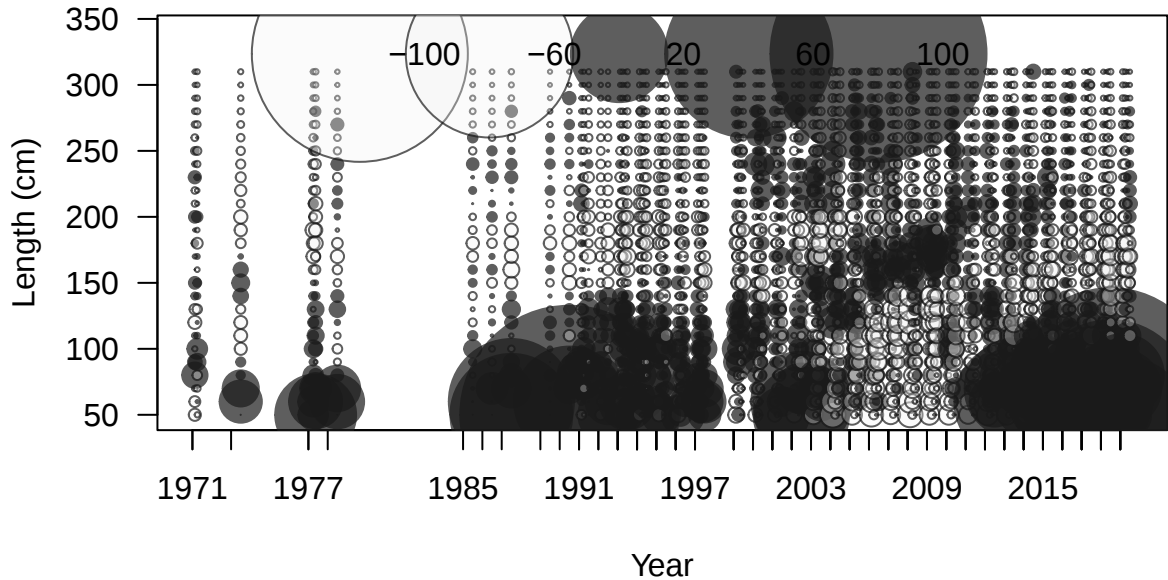




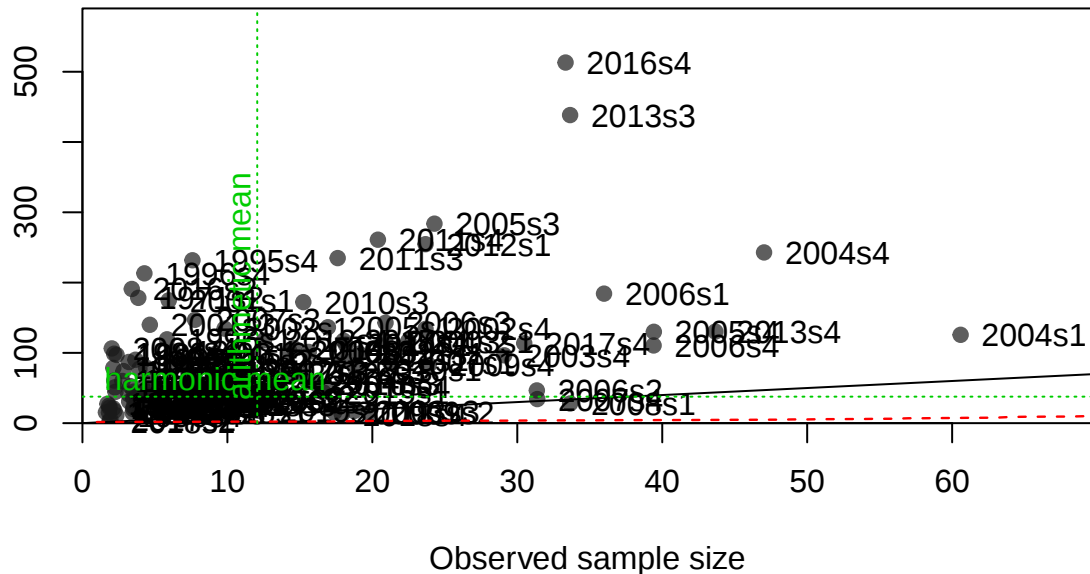


Proportion

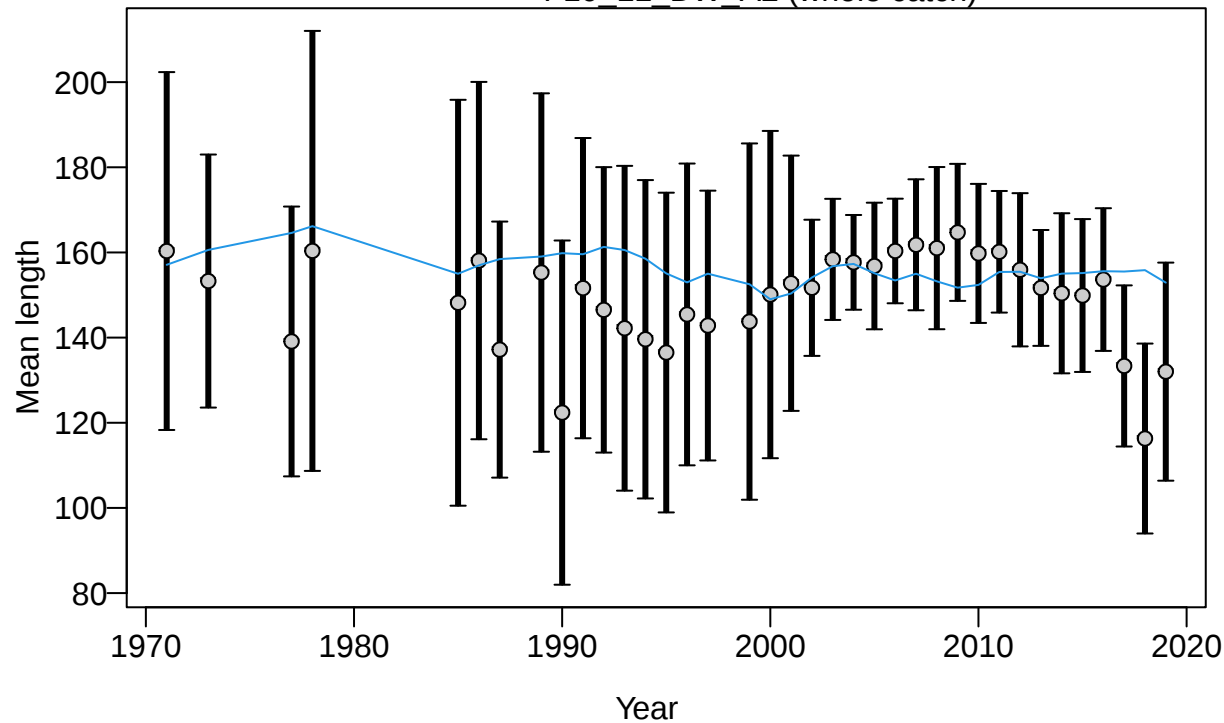


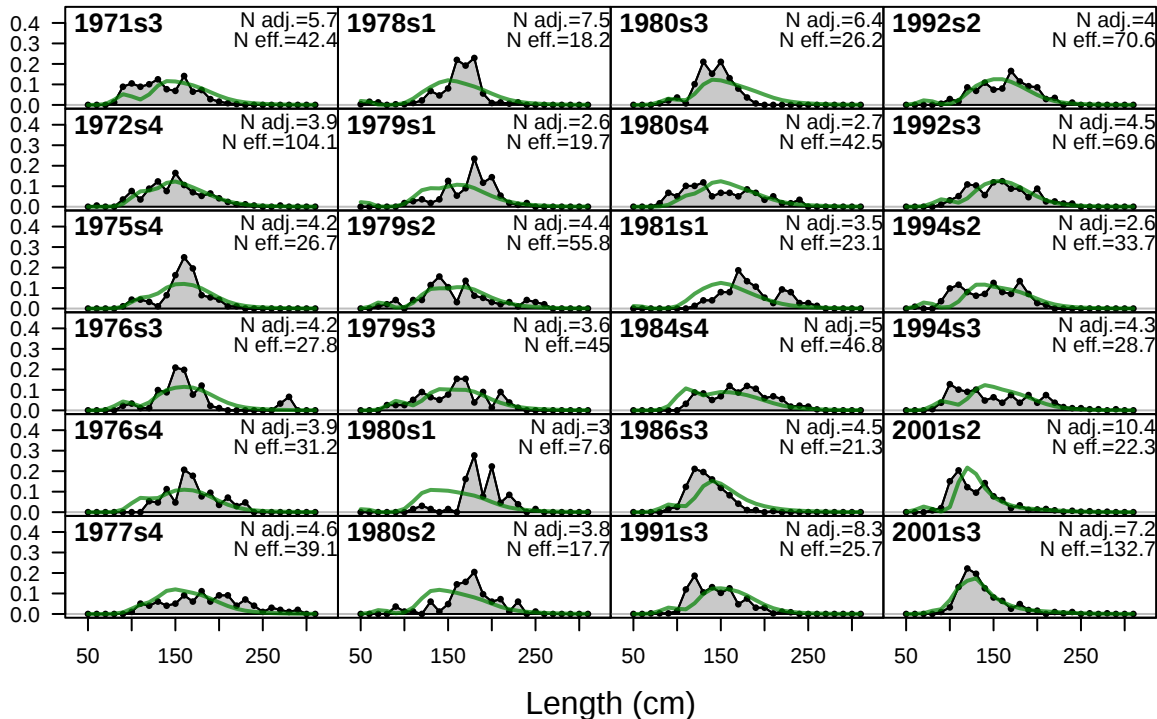


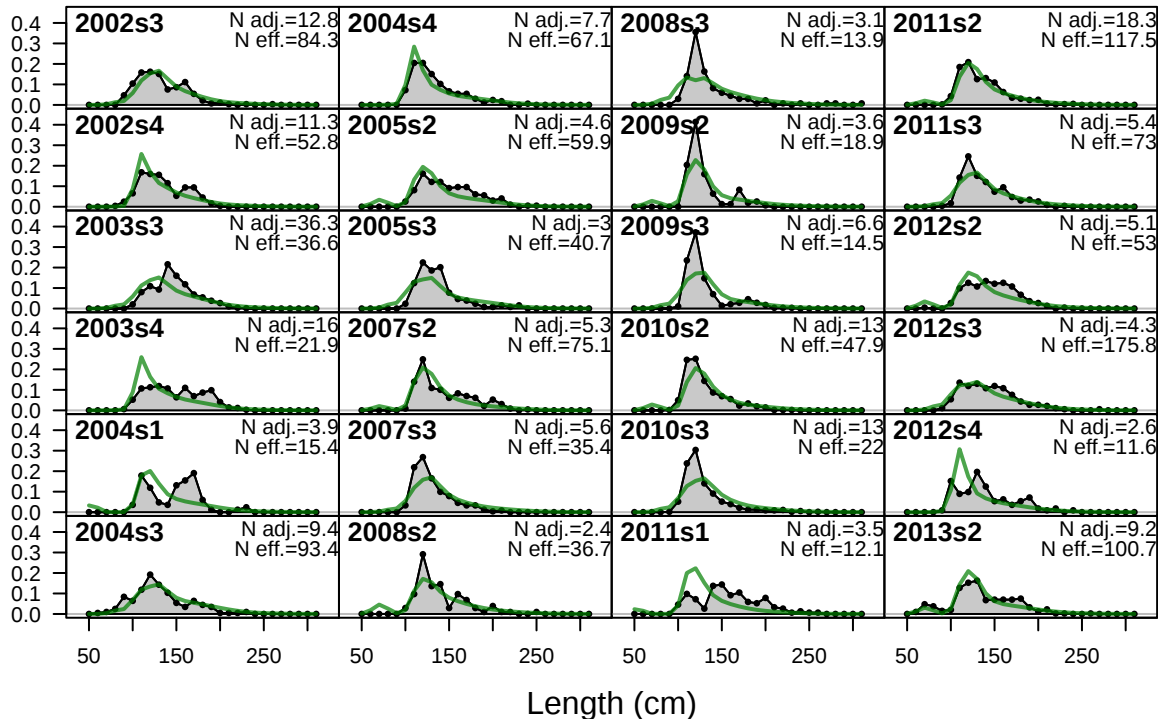
Effective sample size



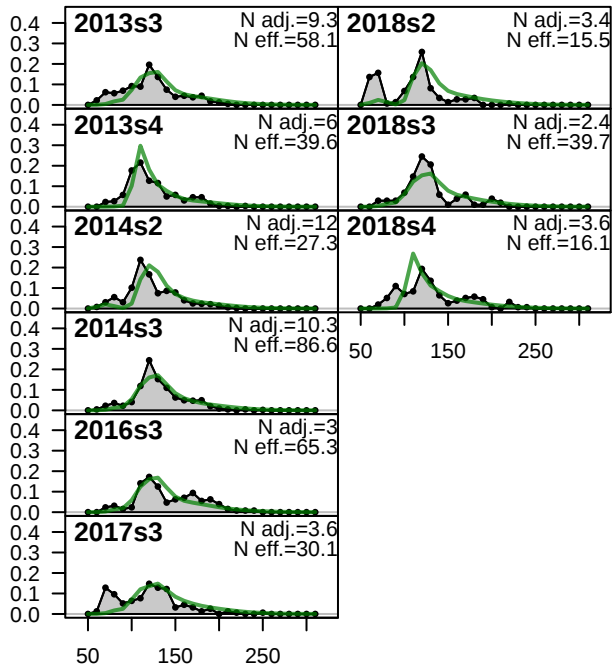
F10_LL_DW_A2 (whole catch)



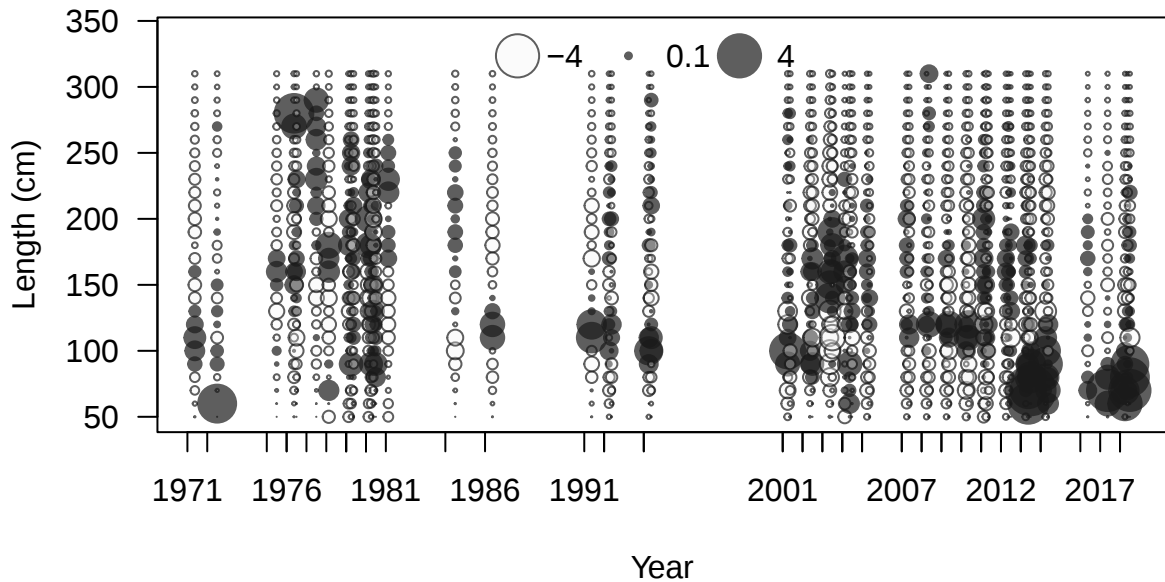




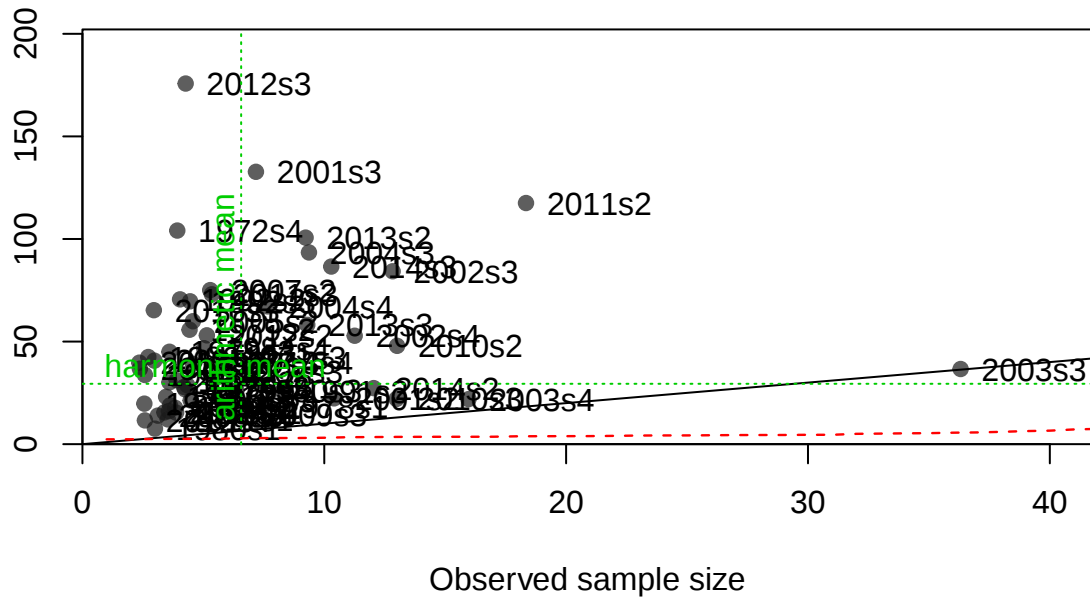
Proportion



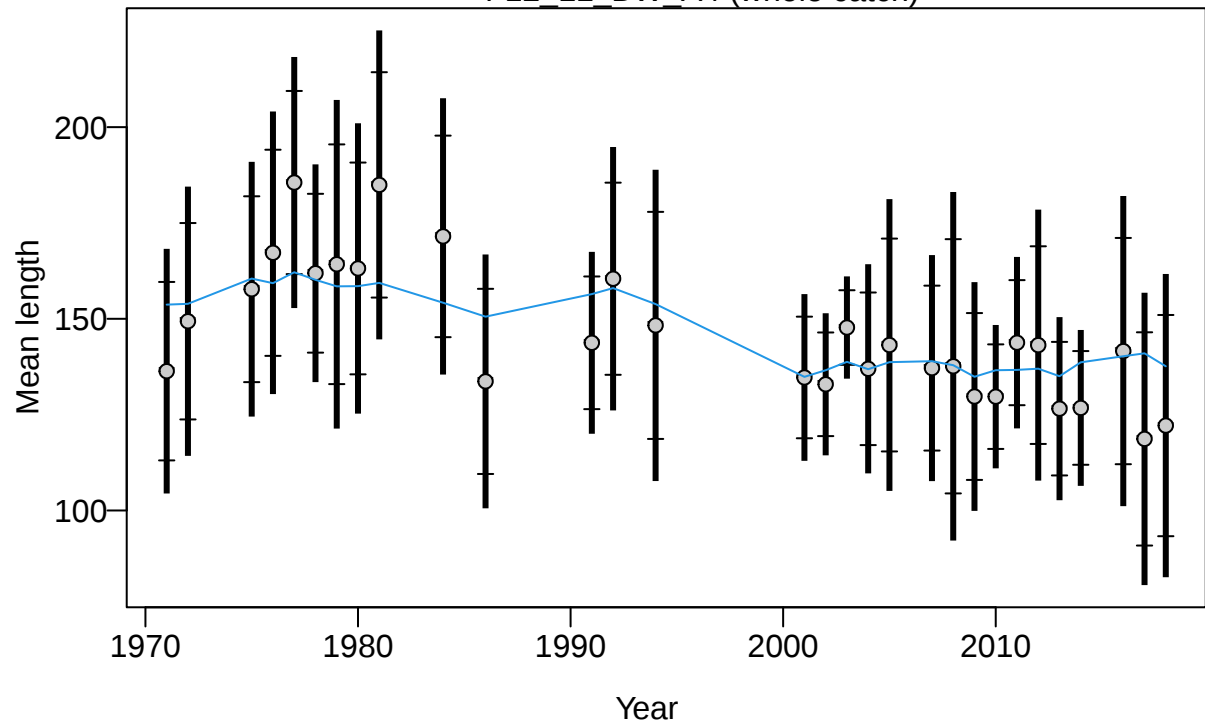
Length (cm)

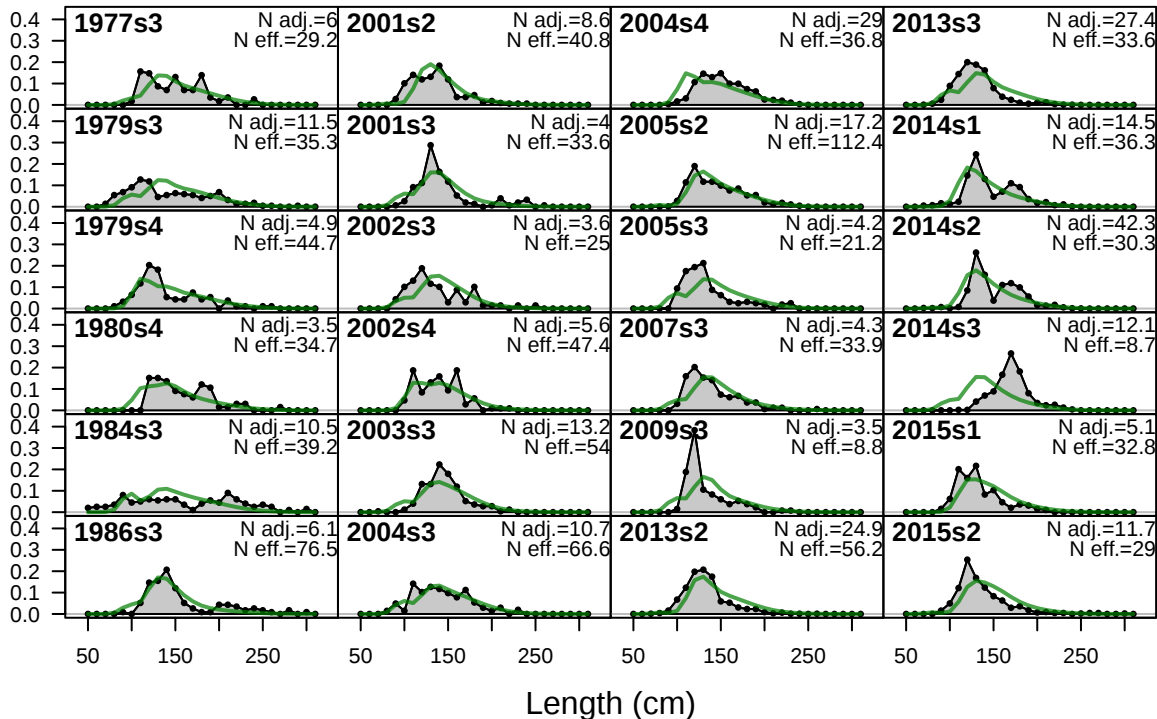


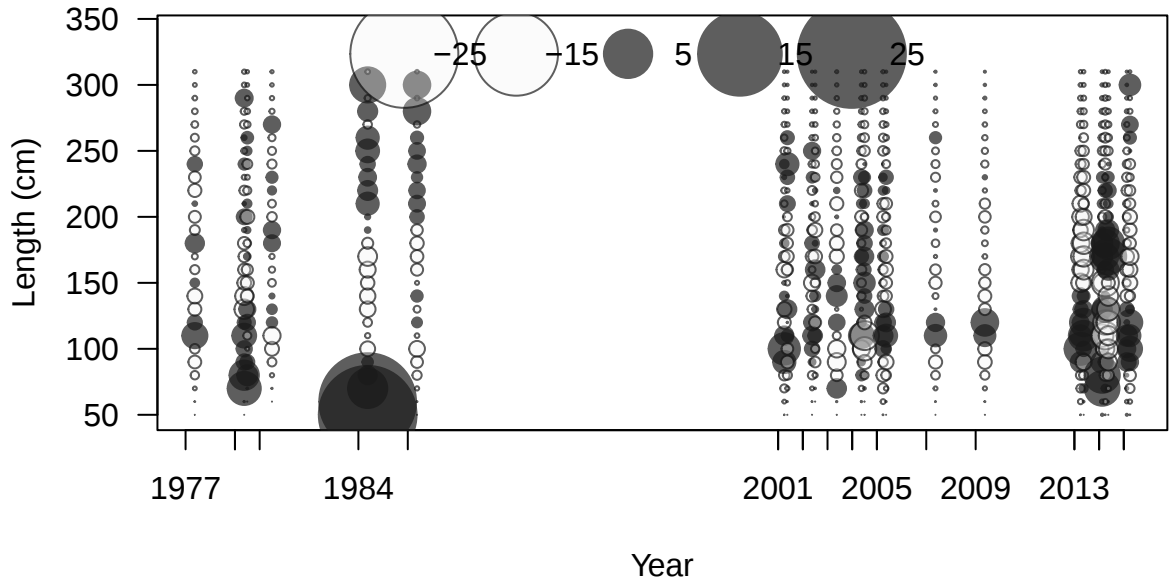
Effective sample size



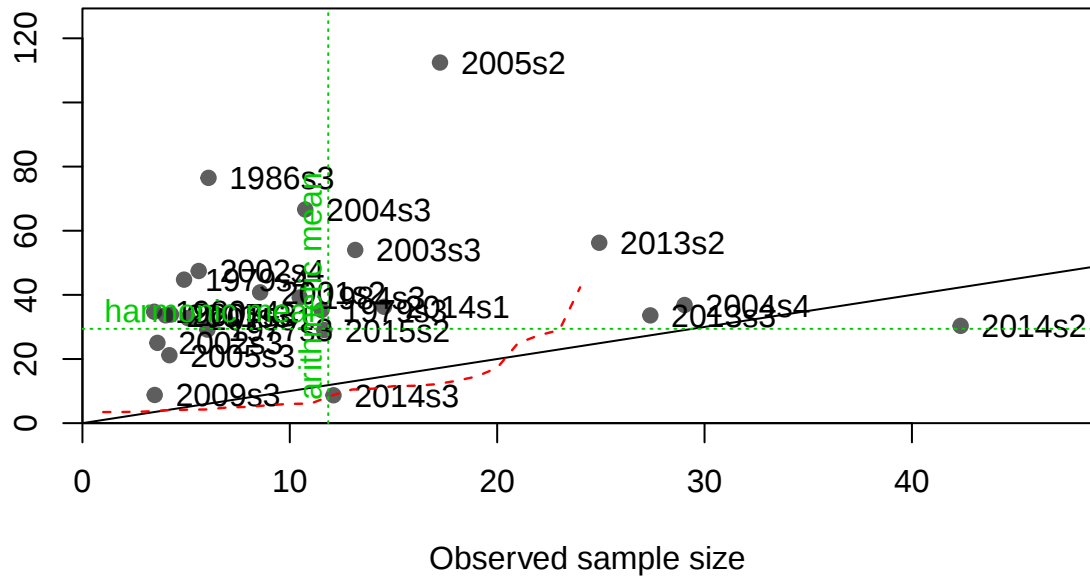
F12_LL_DW_A4 (whole catch)



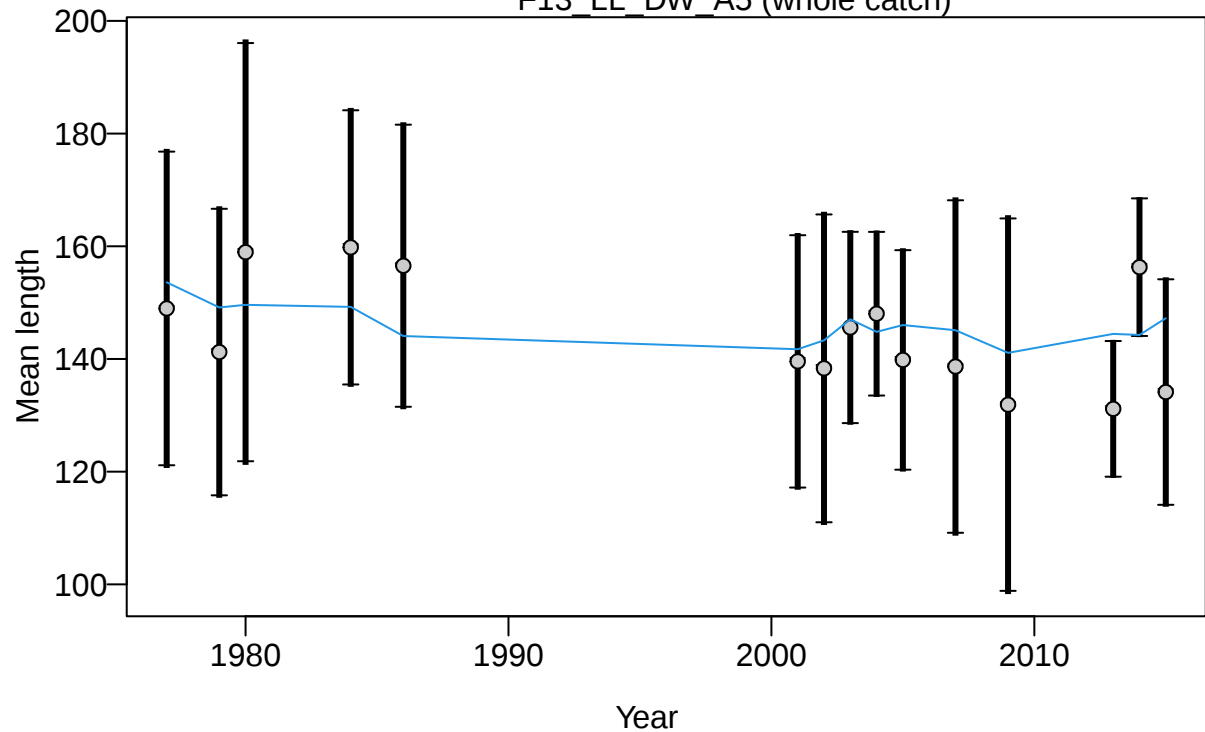




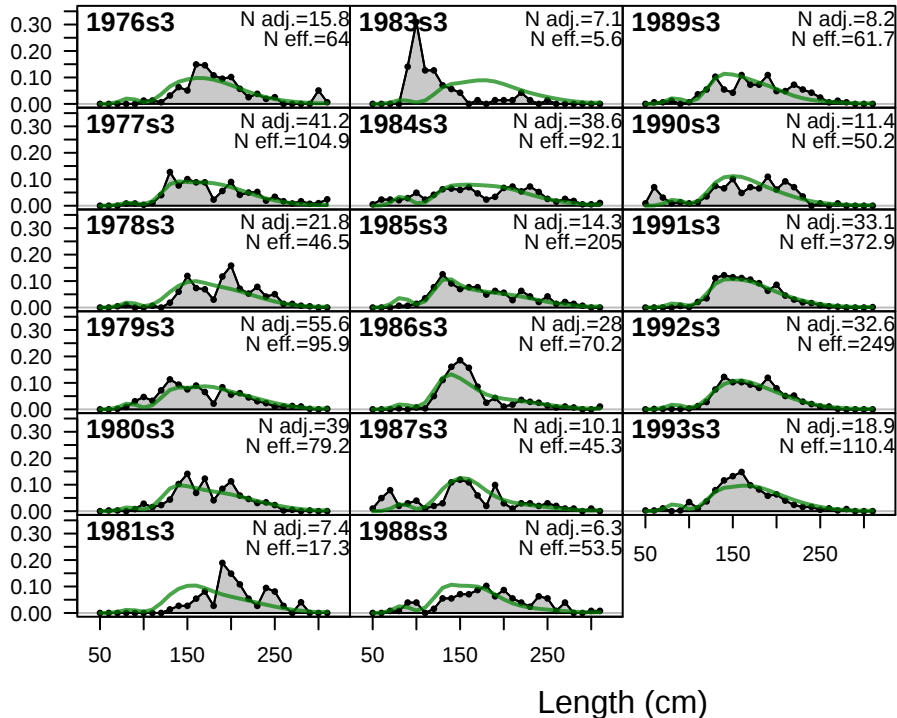
Effective sample size

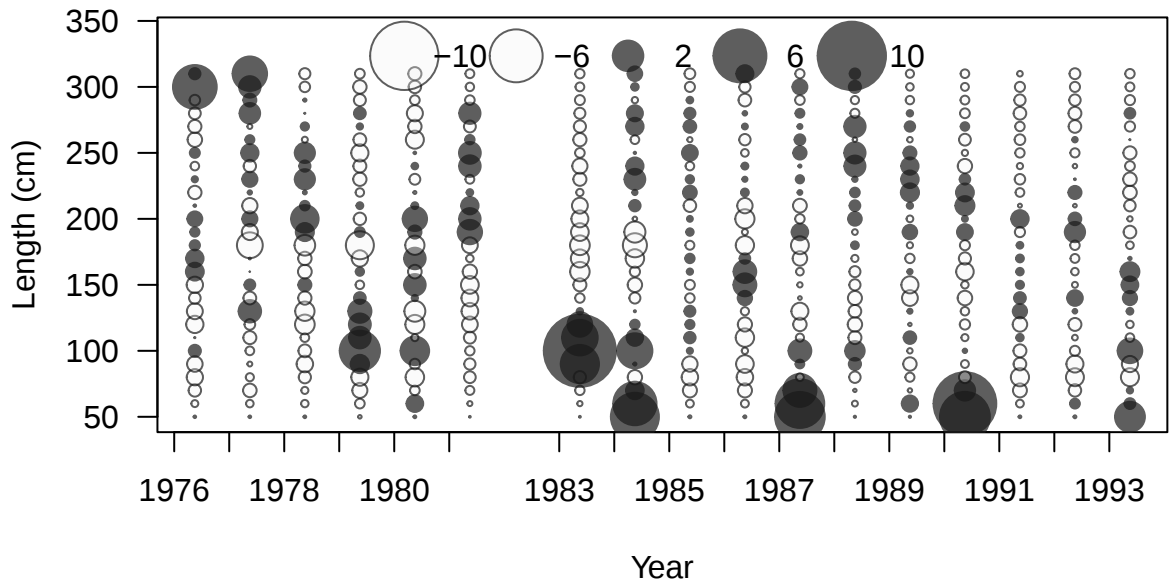


F13_LL_DW_A5 (whole catch)

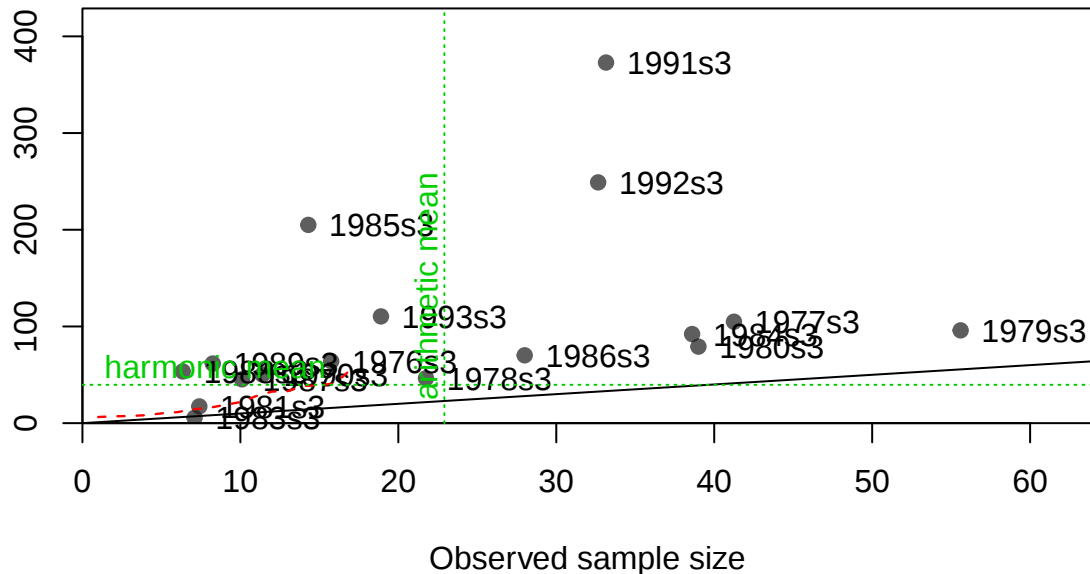


Proportion

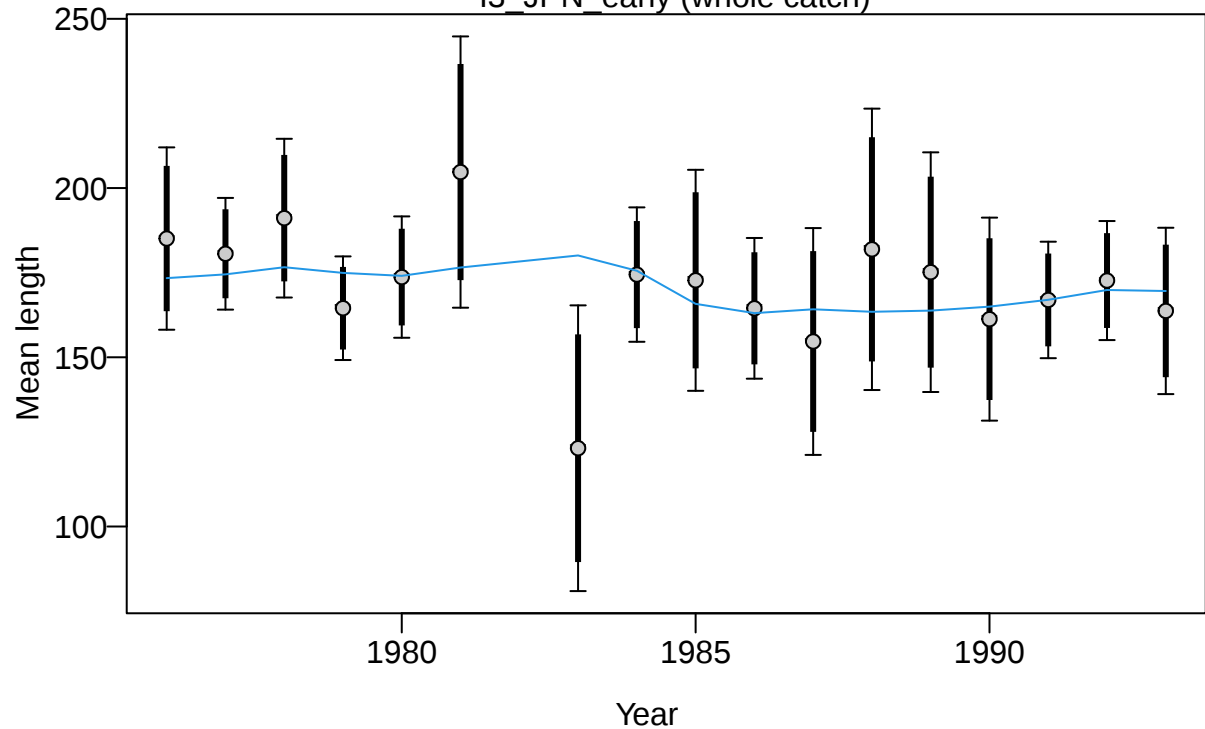


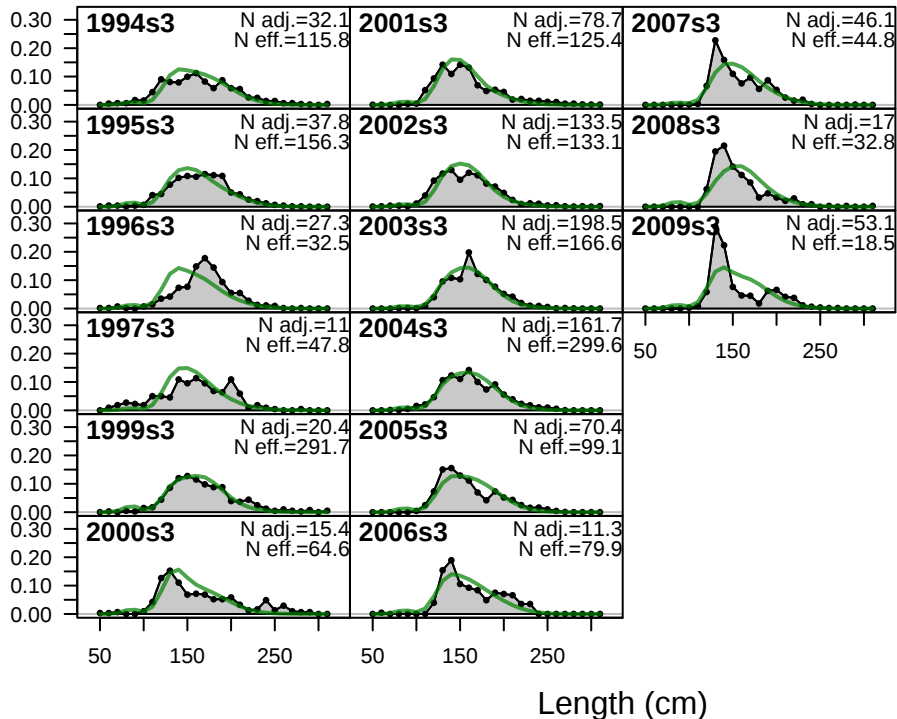


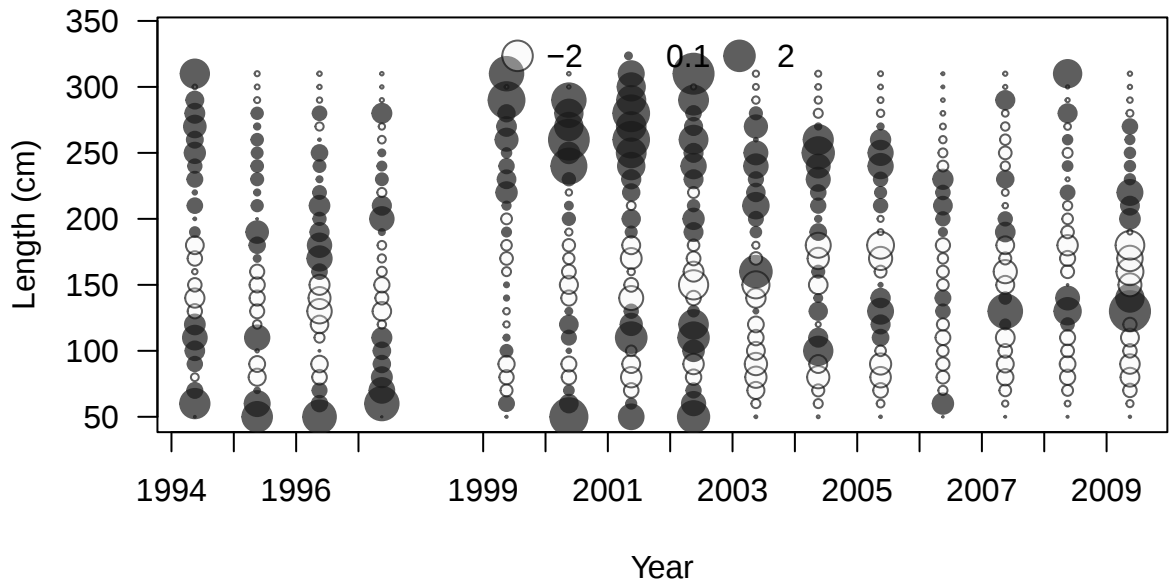
Effective sample size



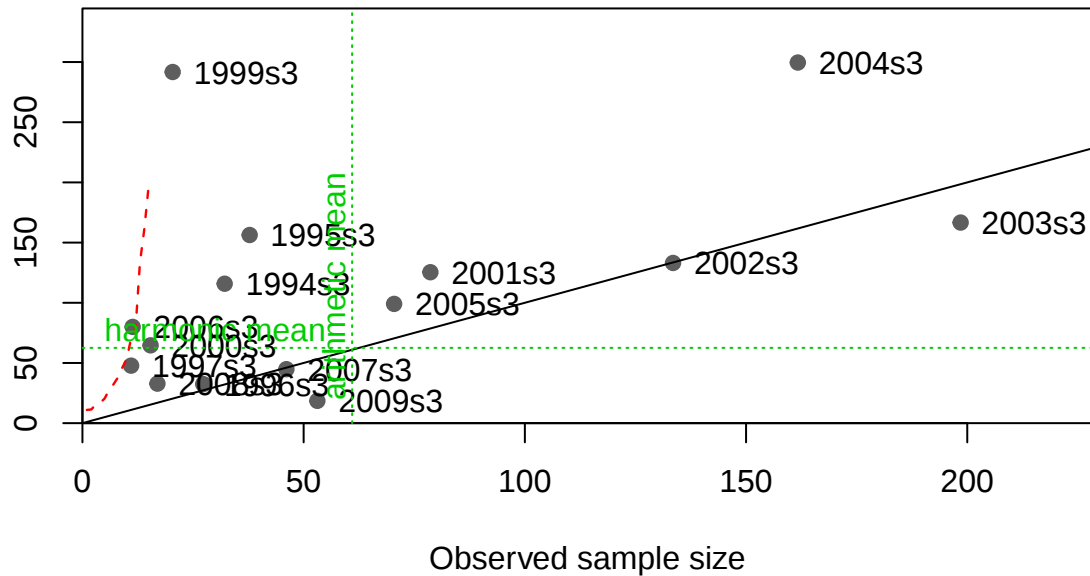
I3_JPN_early (whole catch)



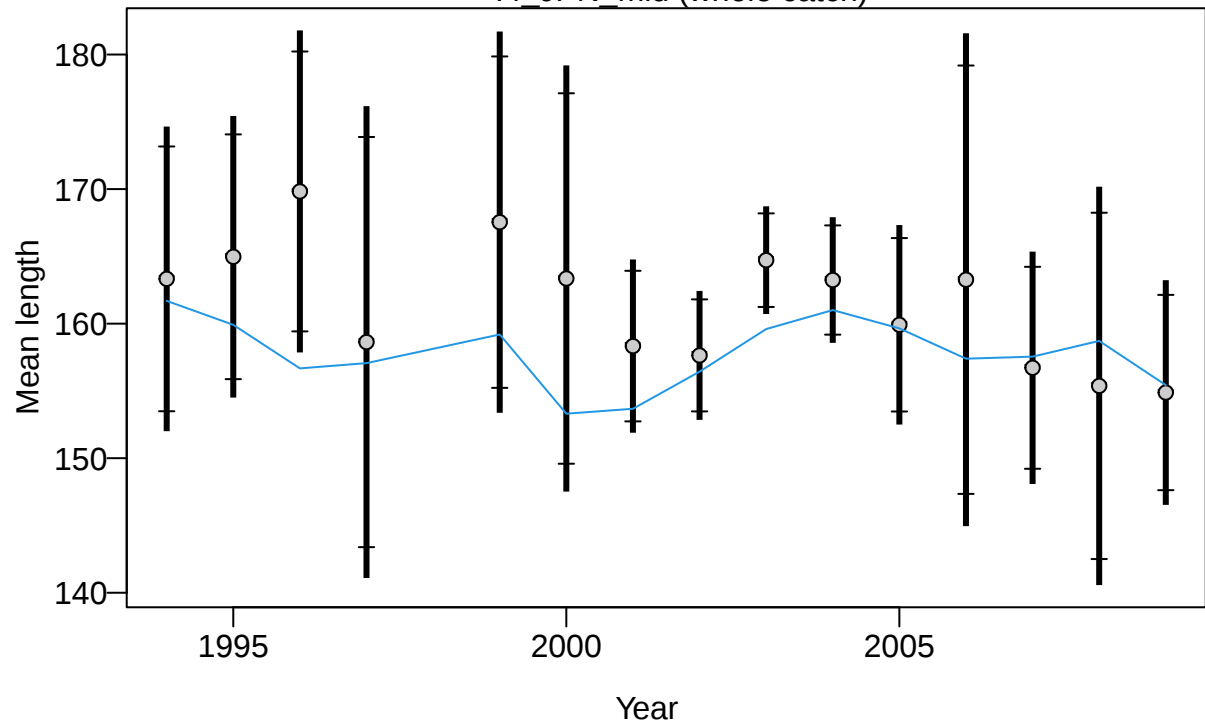




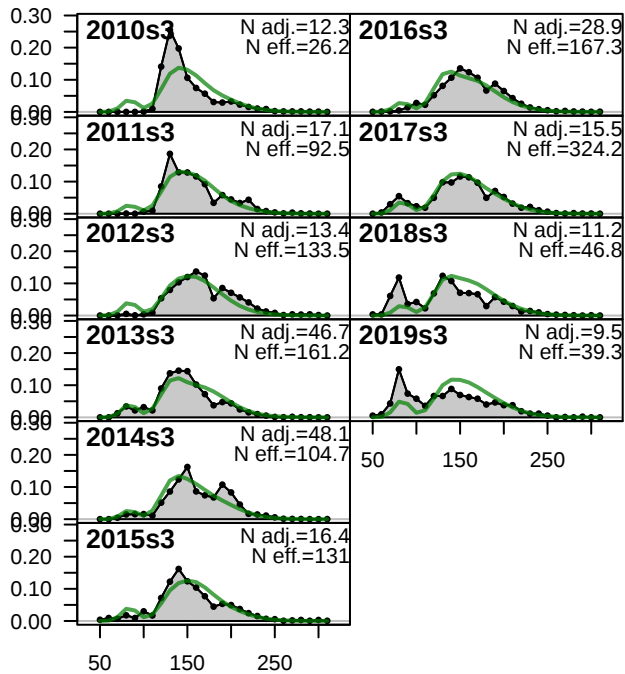
Effective sample size



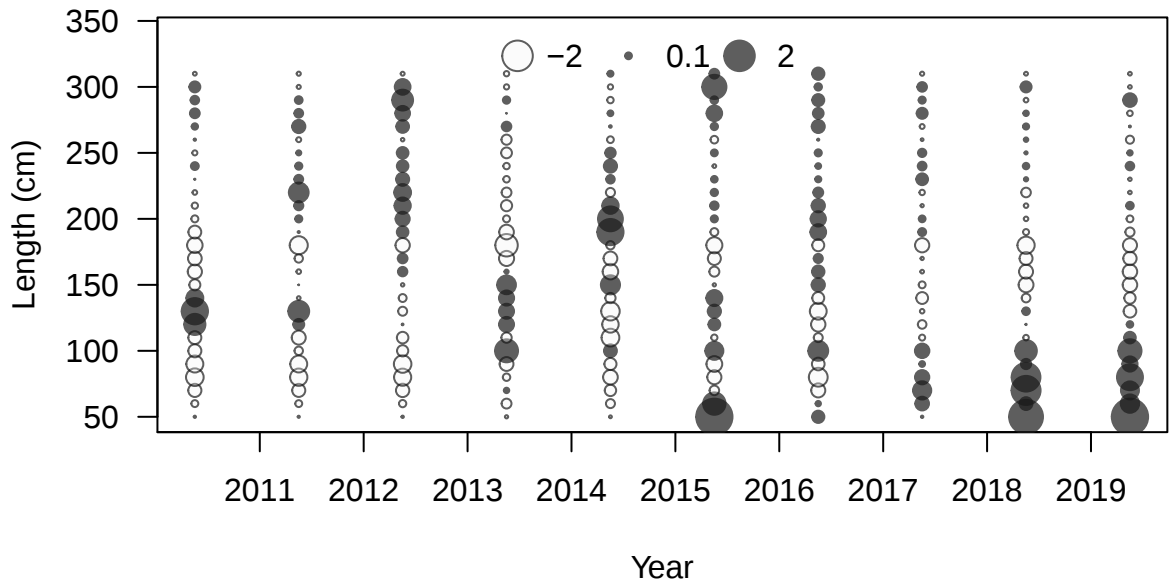
l4_JPN_mid (whole catch)



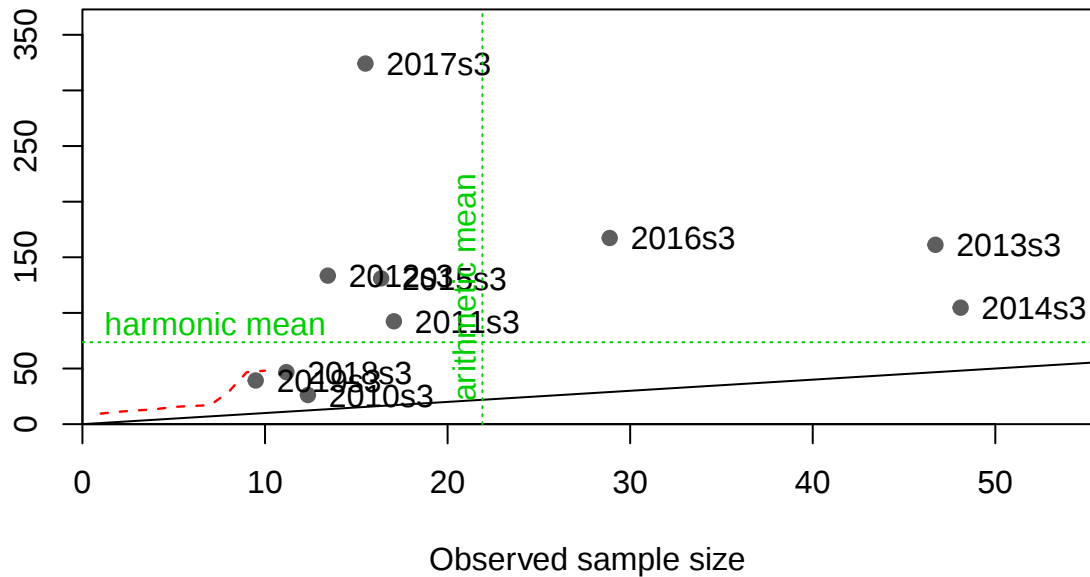
Proportion



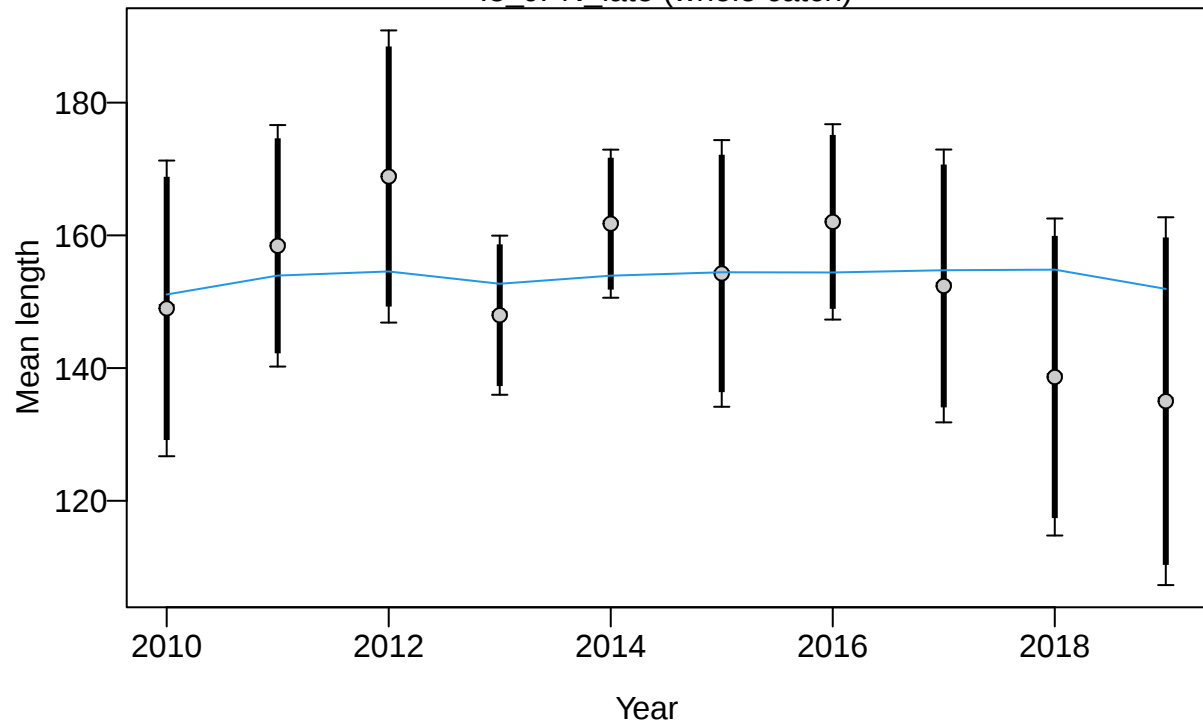
Length (cm)



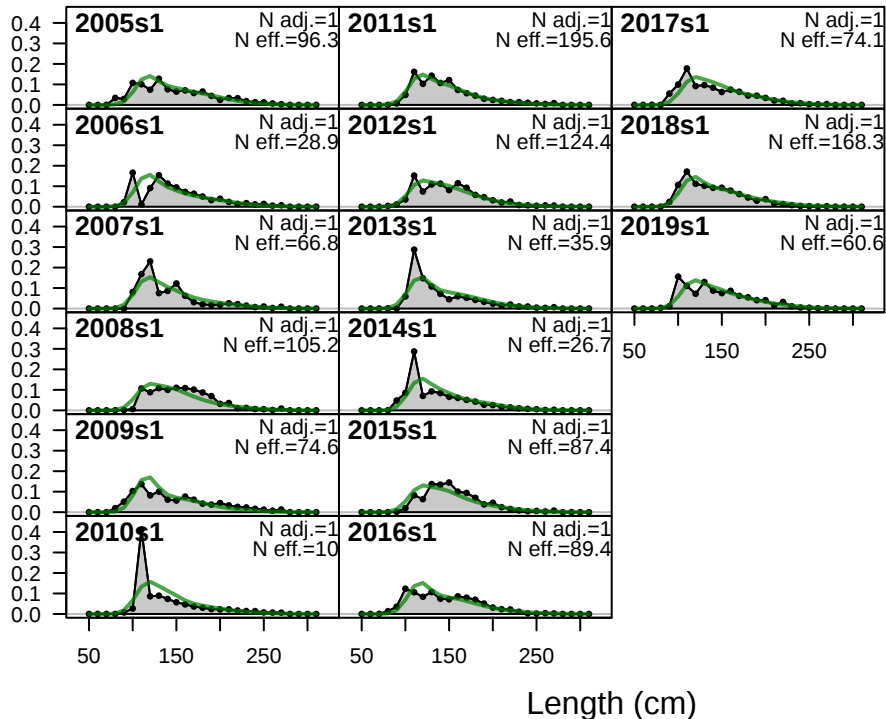
Effective sample size

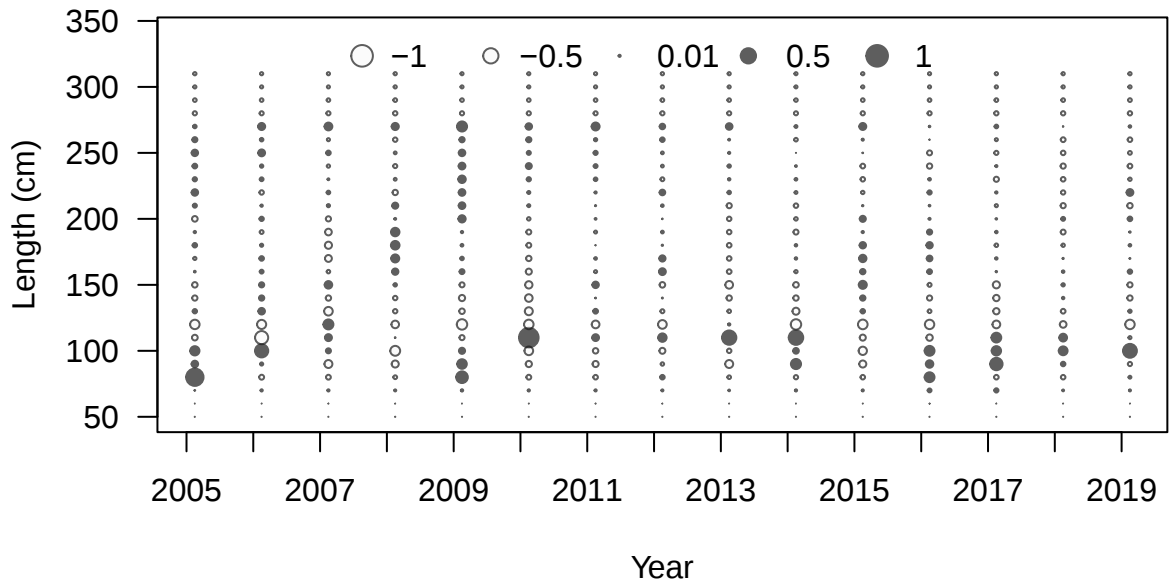


I5_JPN_late (whole catch)

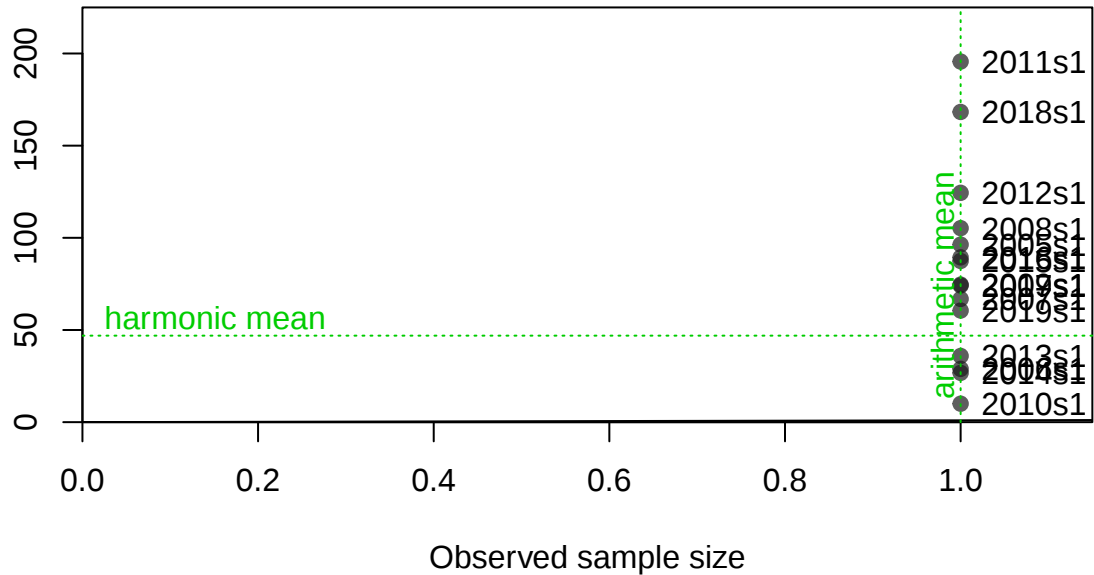


Proportion

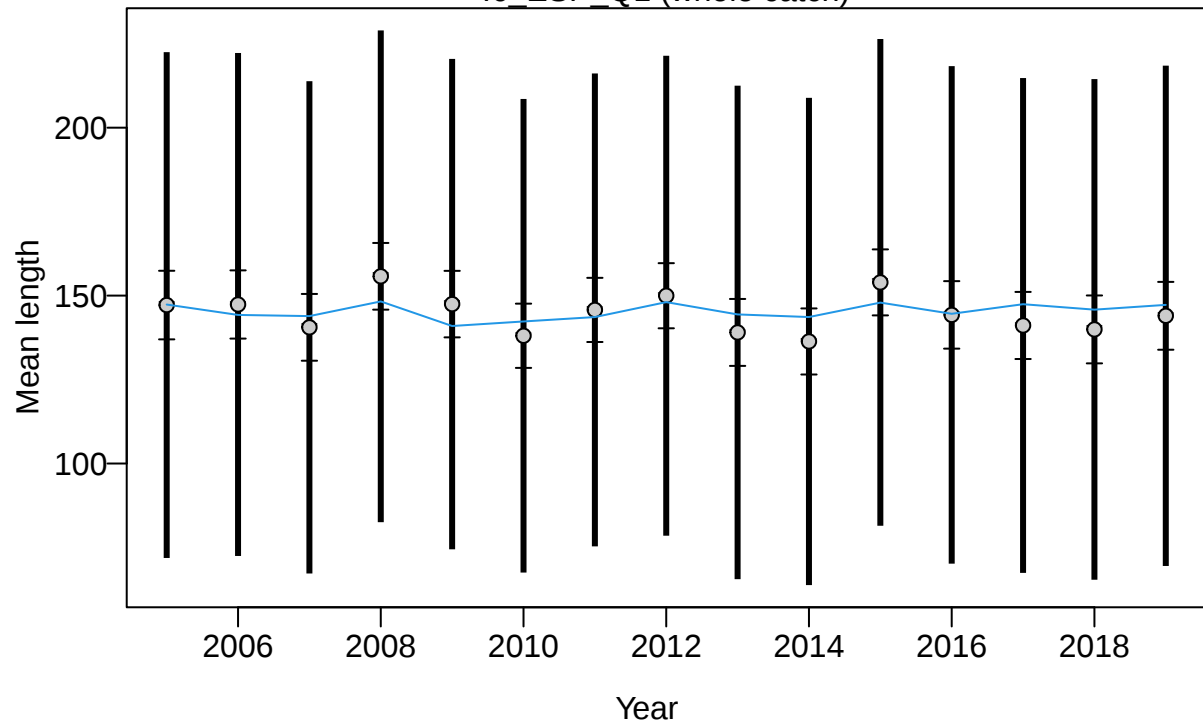




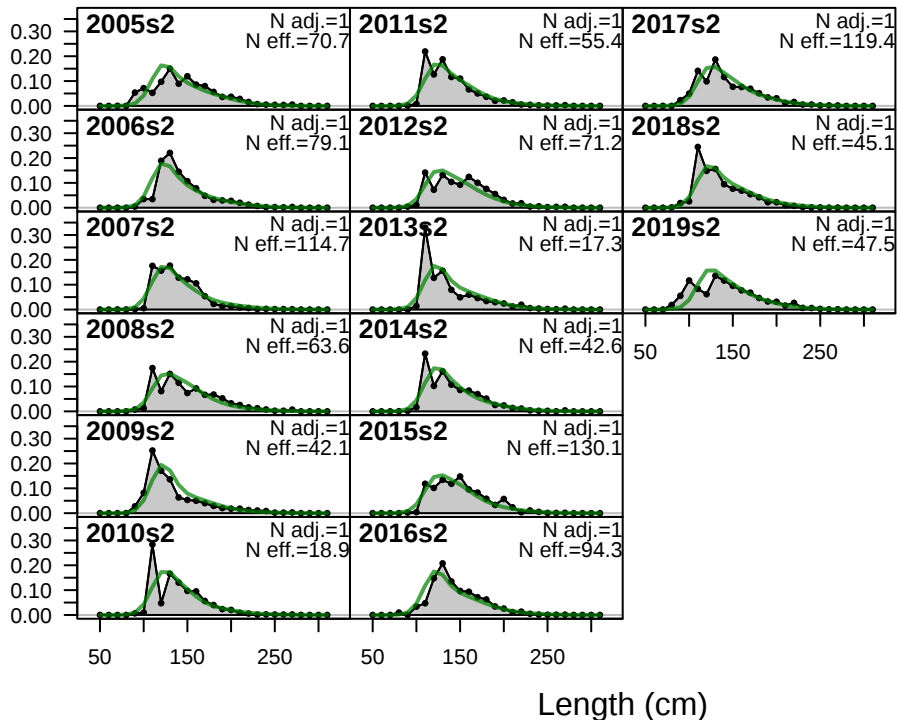
Effective sample size

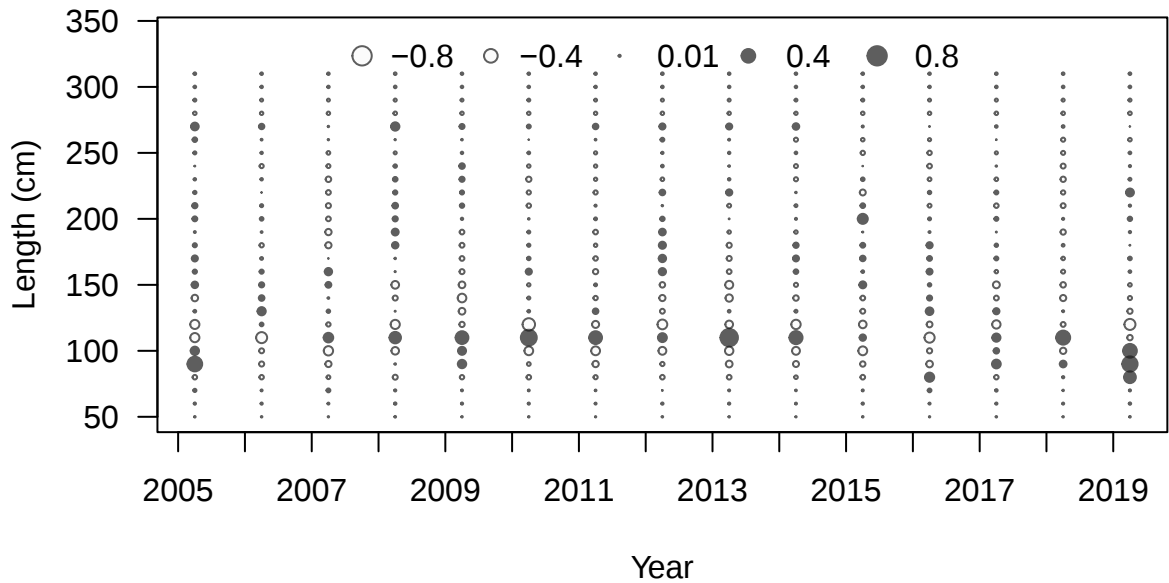


I6_ESP_Q1 (whole catch)

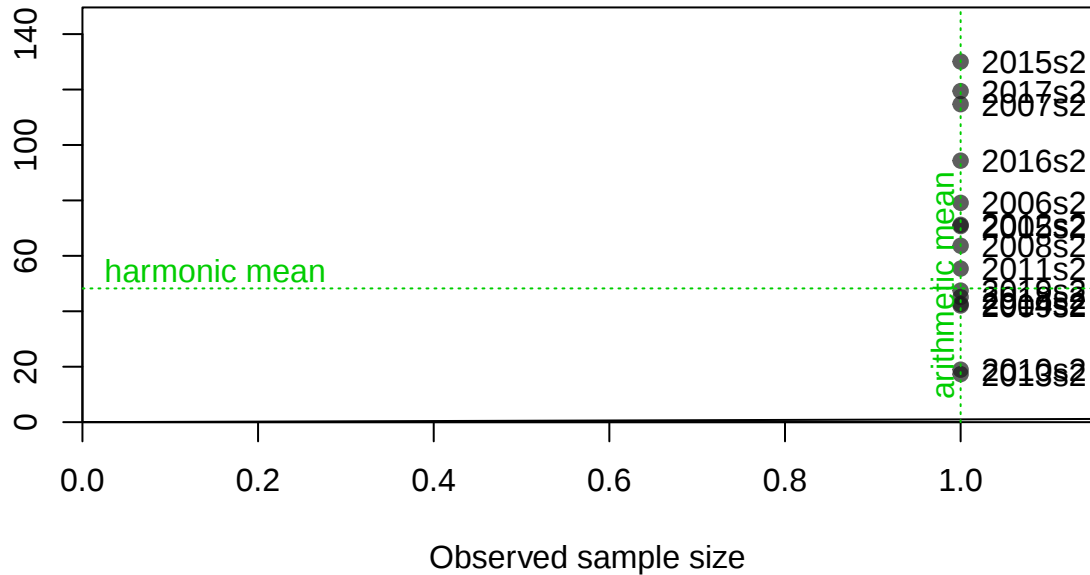


Proportion

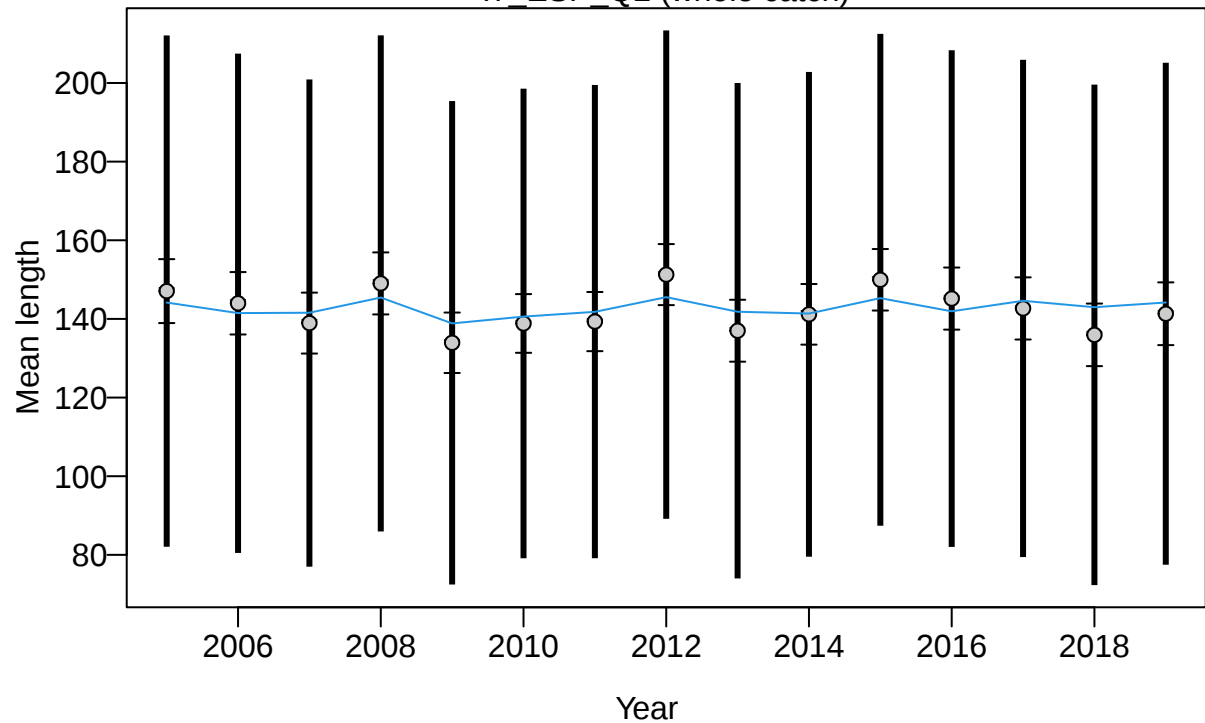




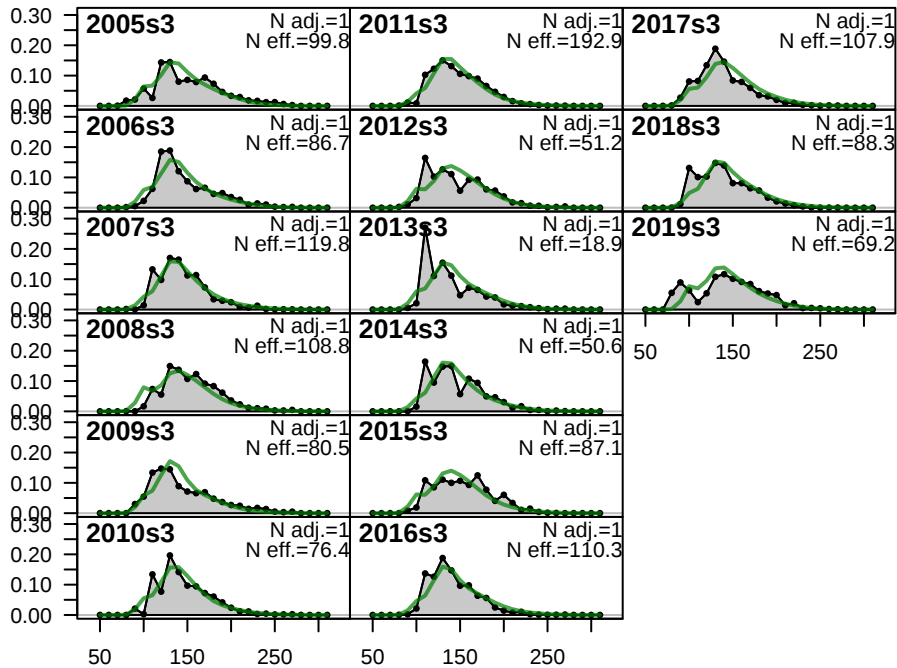
Effective sample size



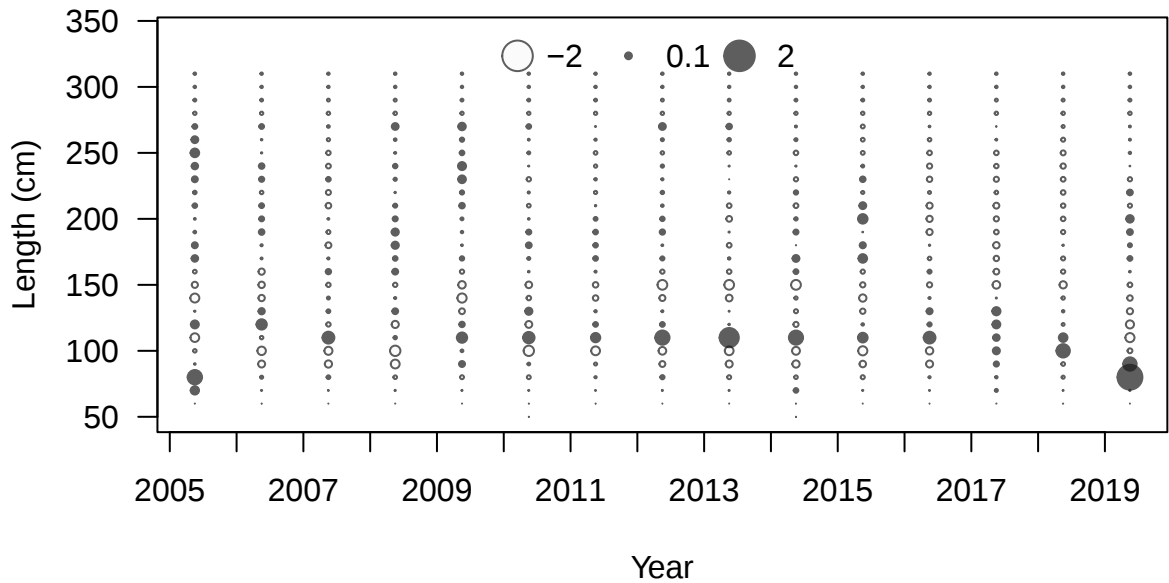
I7_ESP_Q2 (whole catch)



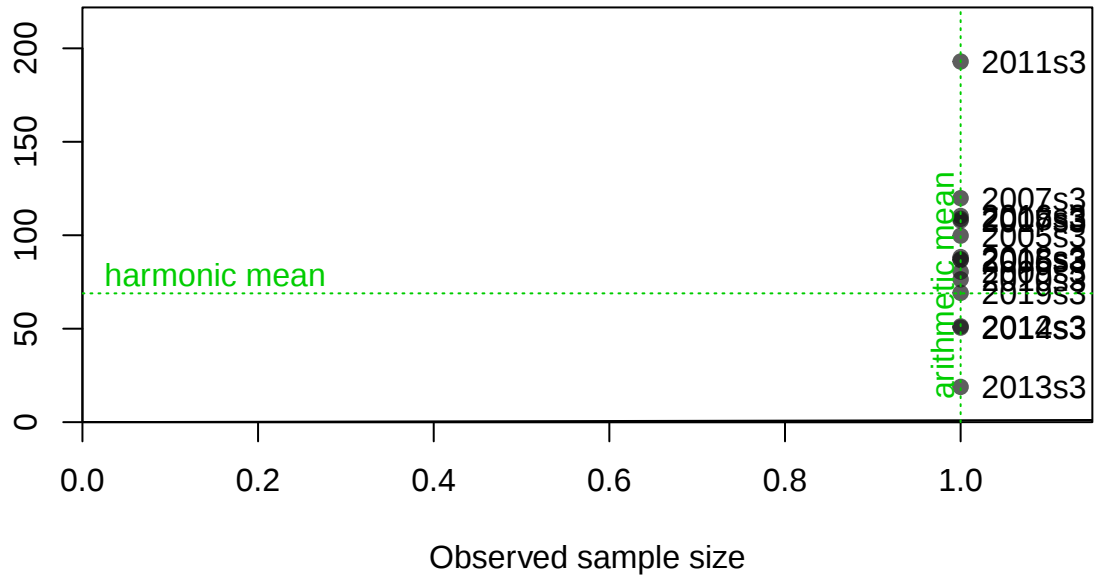
Proportion



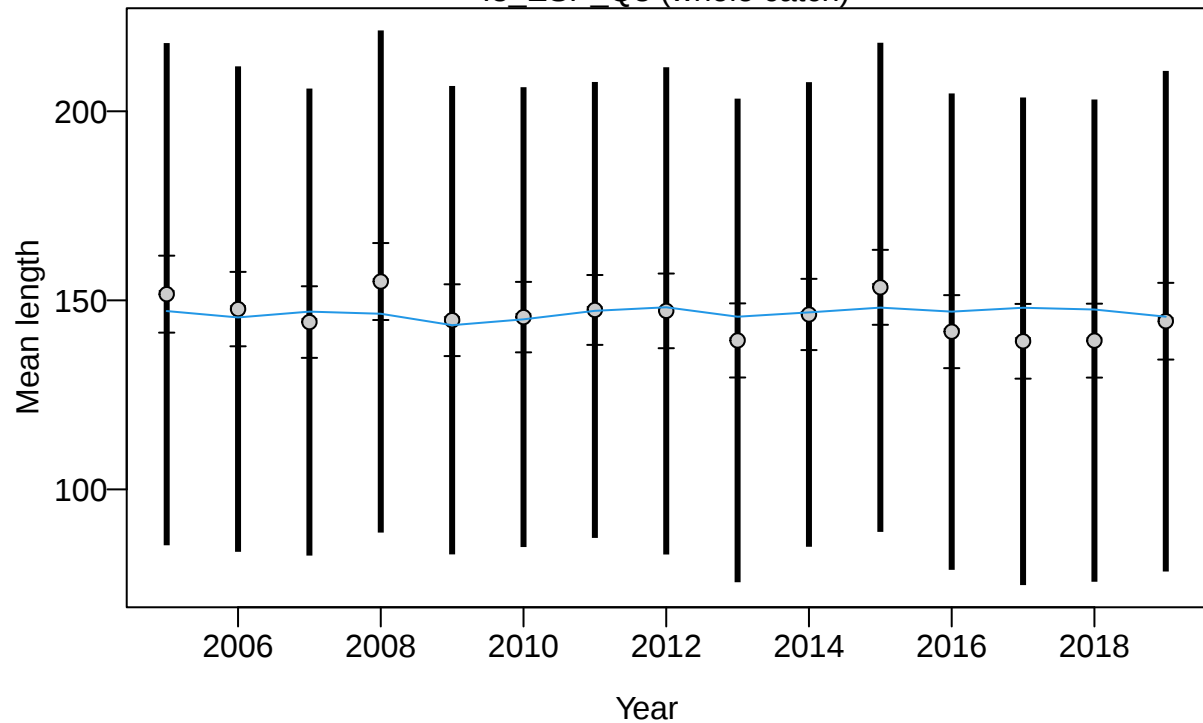
Length (cm)

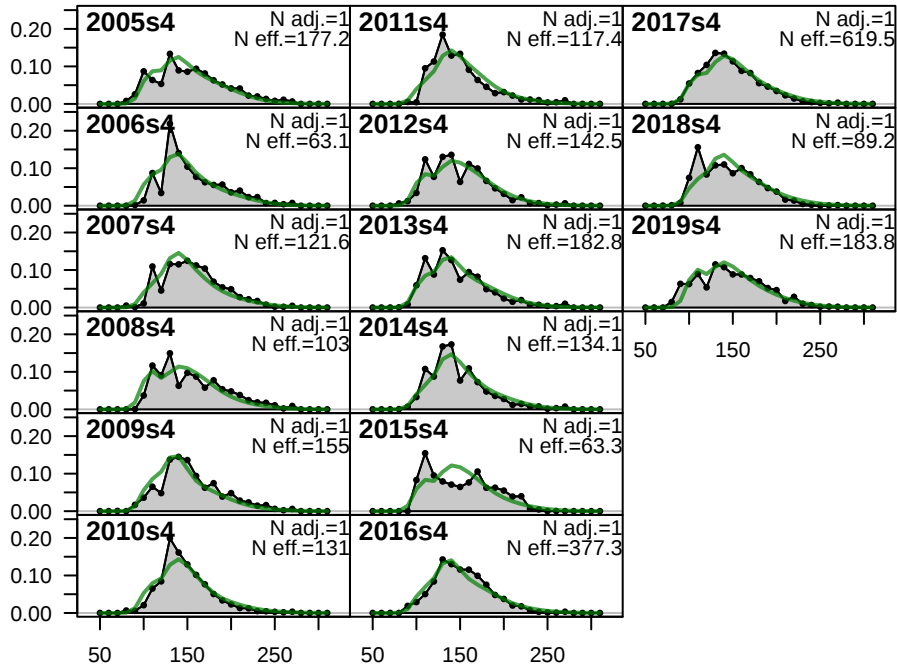


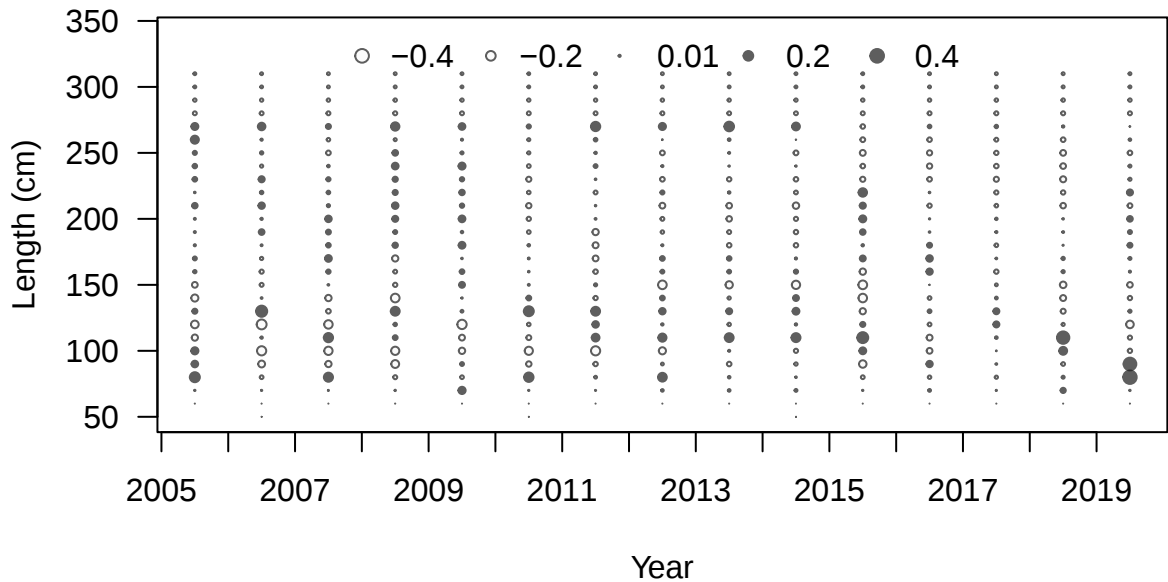
Effective sample size



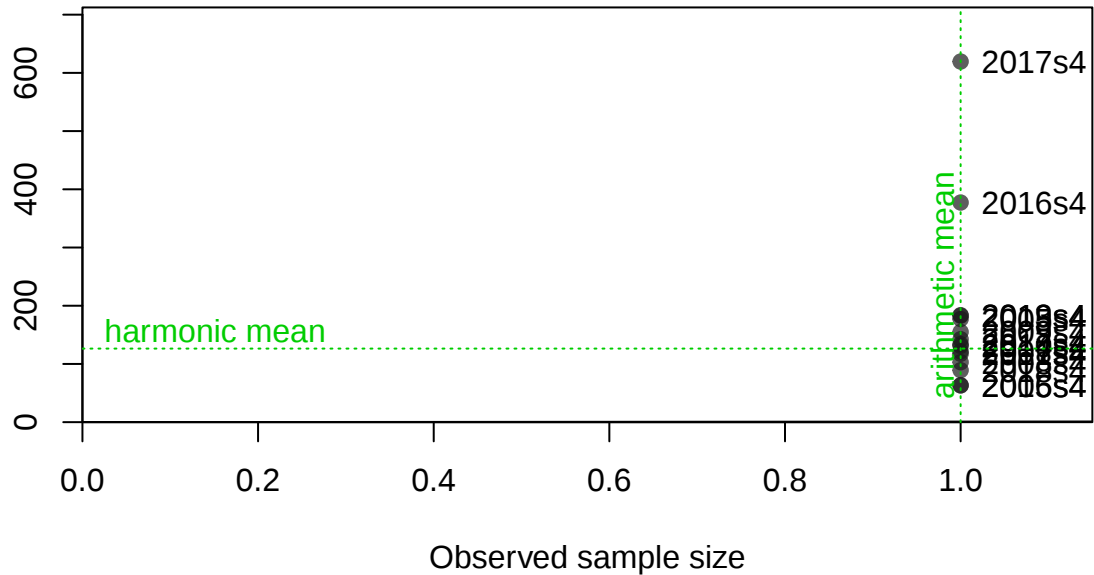
I8_ESP_Q3 (whole catch)



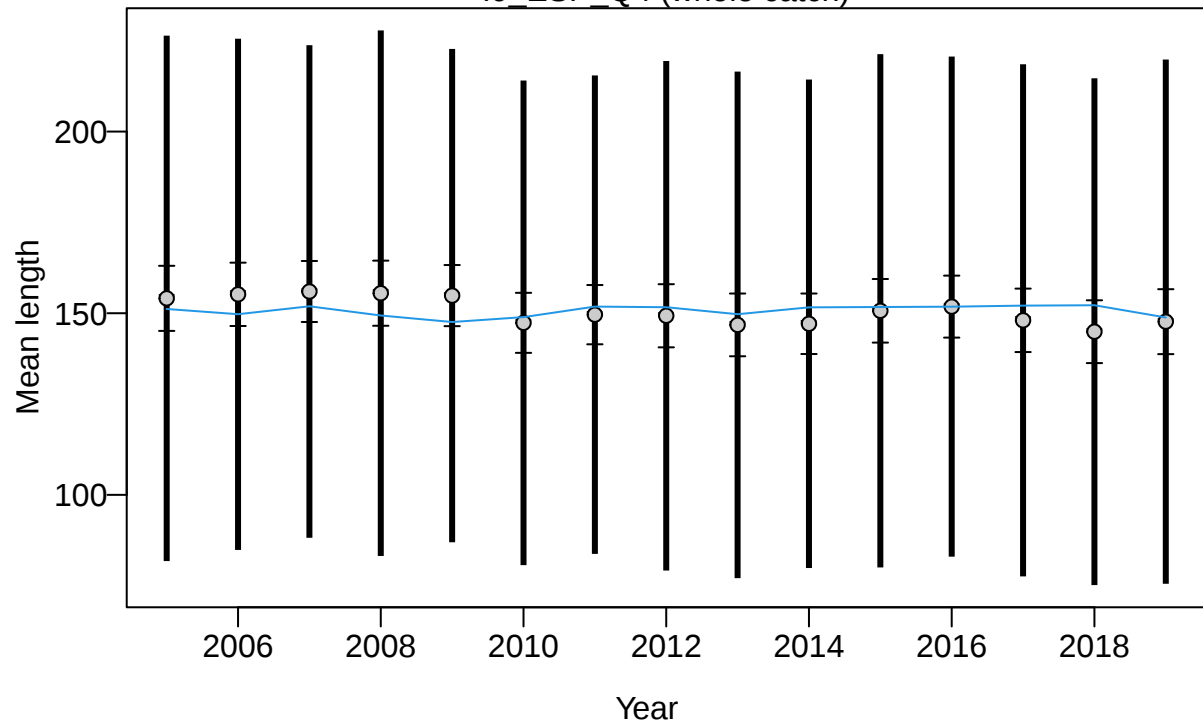




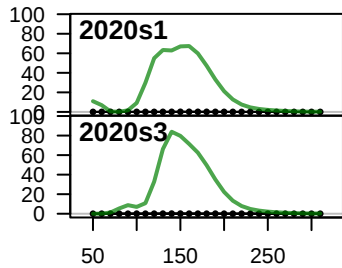
Effective sample size



I9_ESP_Q4 (whole catch)

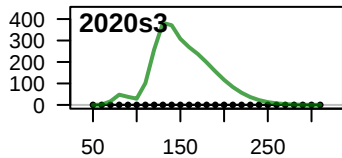


Proportion

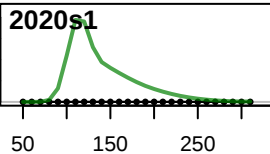


Length (cm)

Proportion



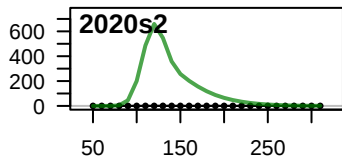
Length (cm)



Proportion

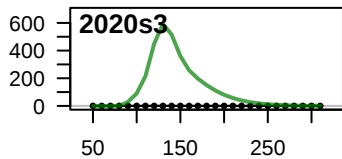
Length (cm)

Proportion



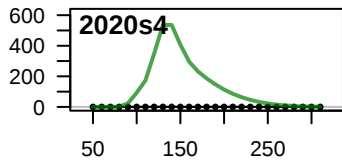
Length (cm)

Proportion



Length (cm)

Proportion



Length (cm)

Proportion

I1_Chile_Q2

Sum of N adj.=641.3
Sum of N eff.=2748.7

I2_Chile_Q3

Sum of N adj.=485.6
Sum of N eff.=3094.1

100

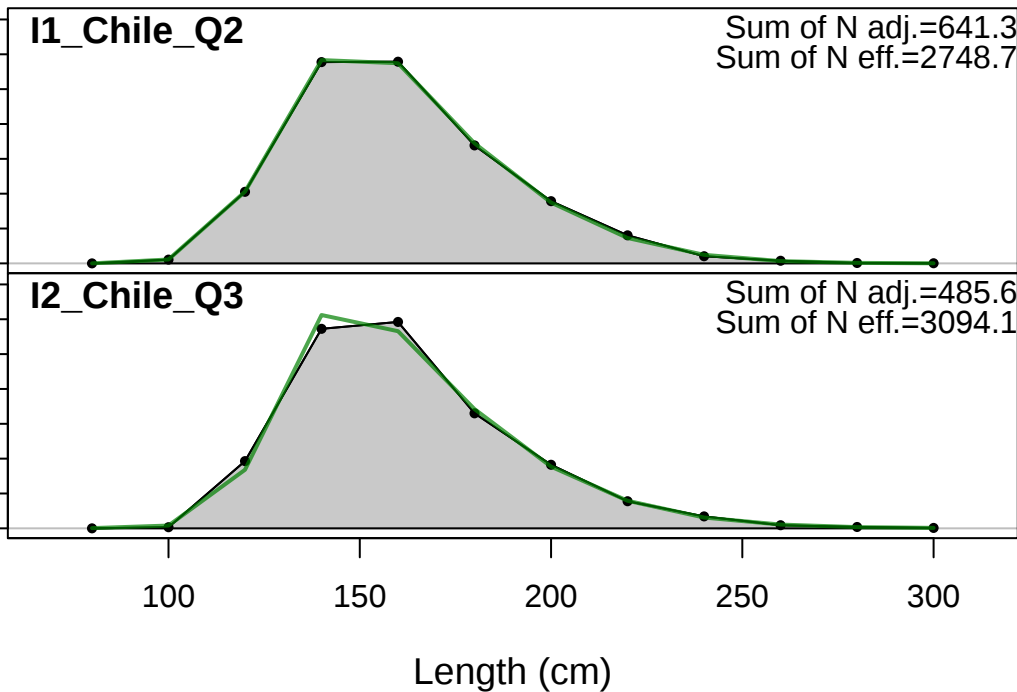
150

200

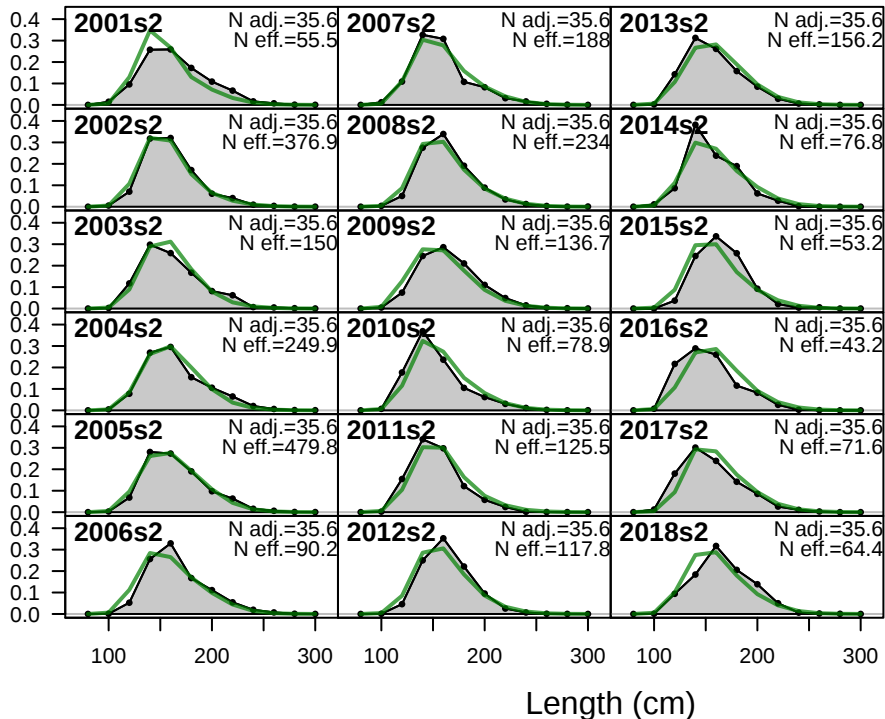
250

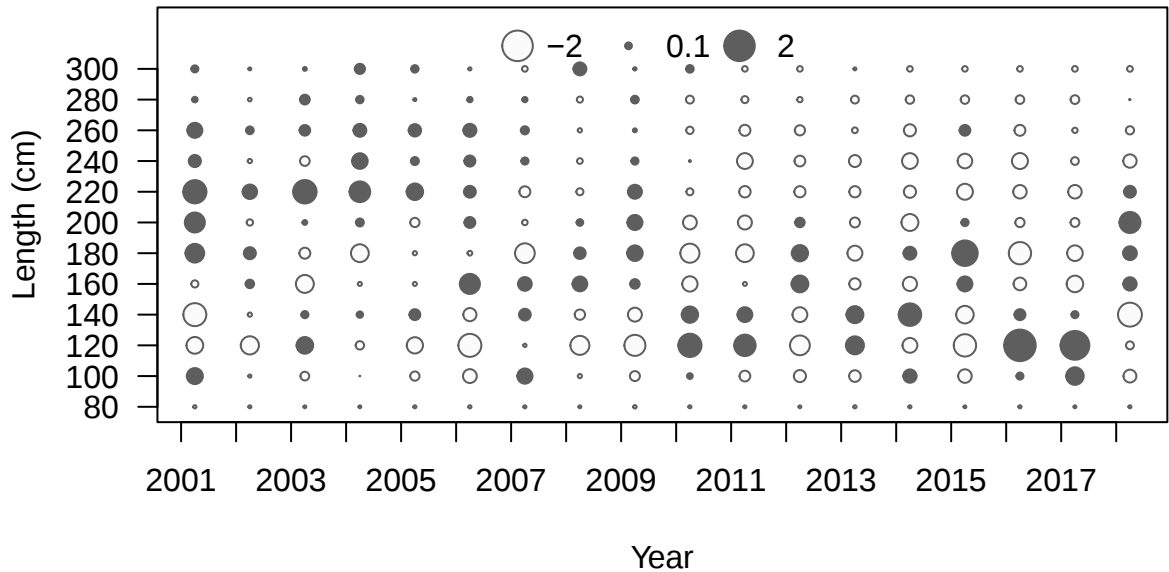
300

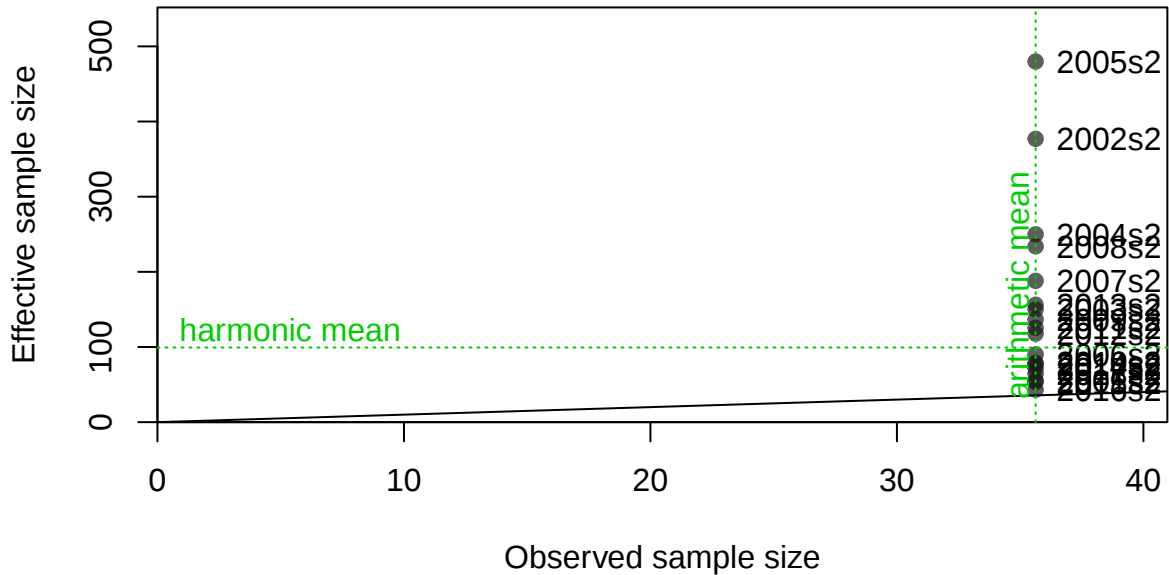
Length (cm)



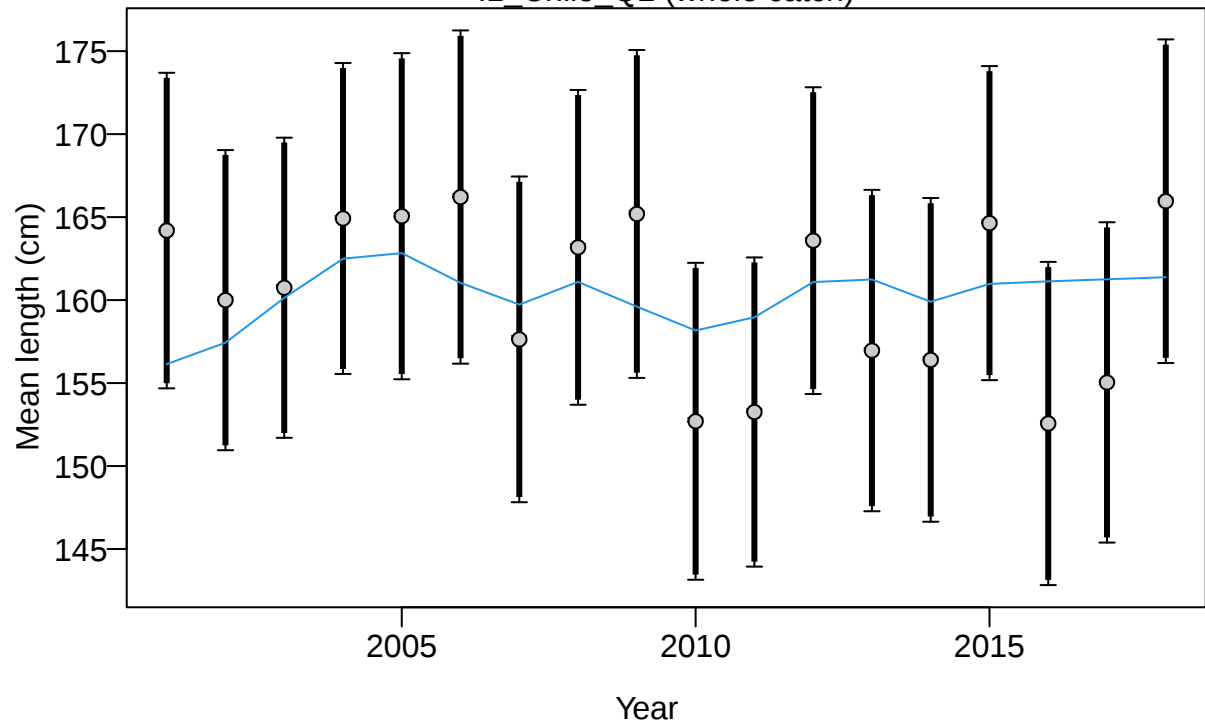
Proportion



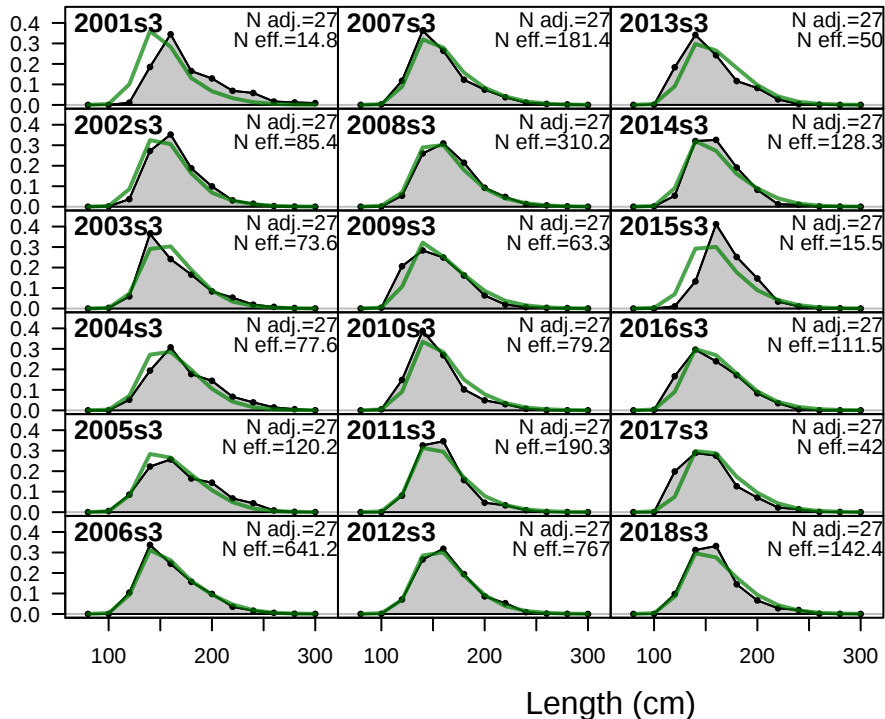


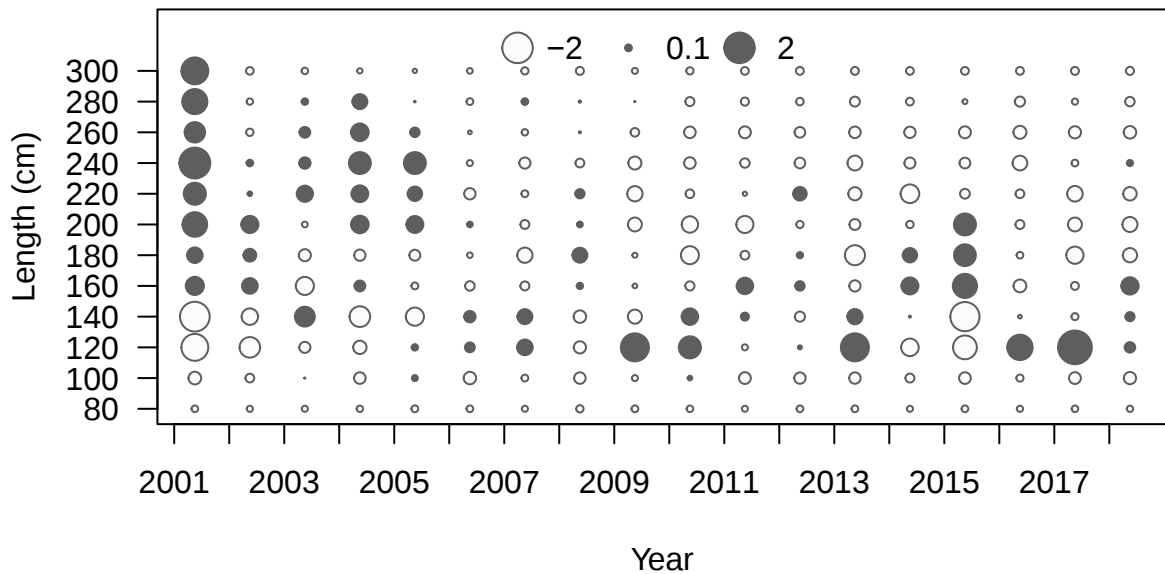


I1_Chile_Q2 (whole catch)

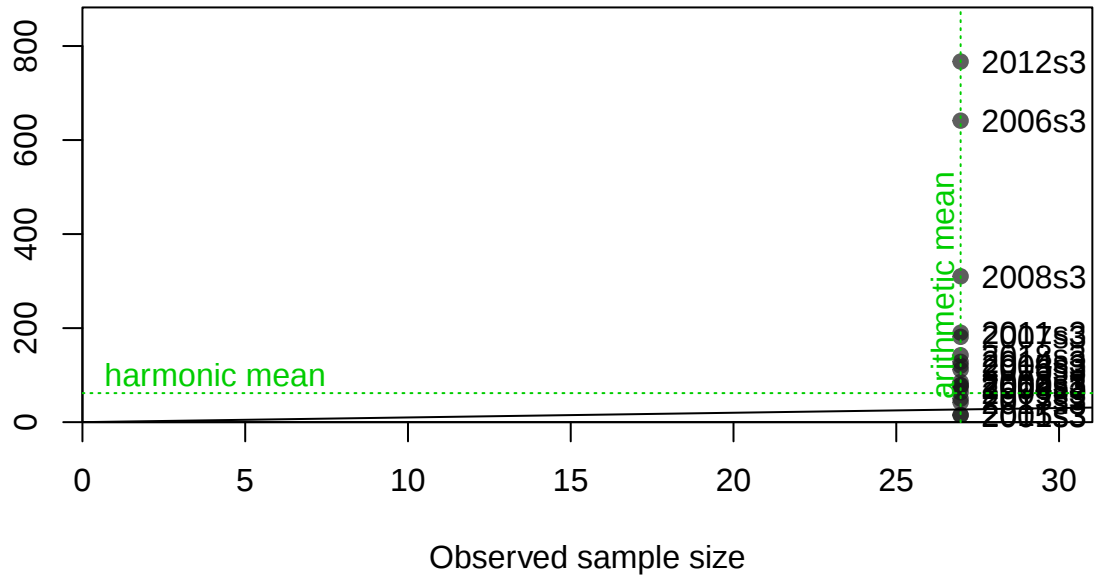


Proportion

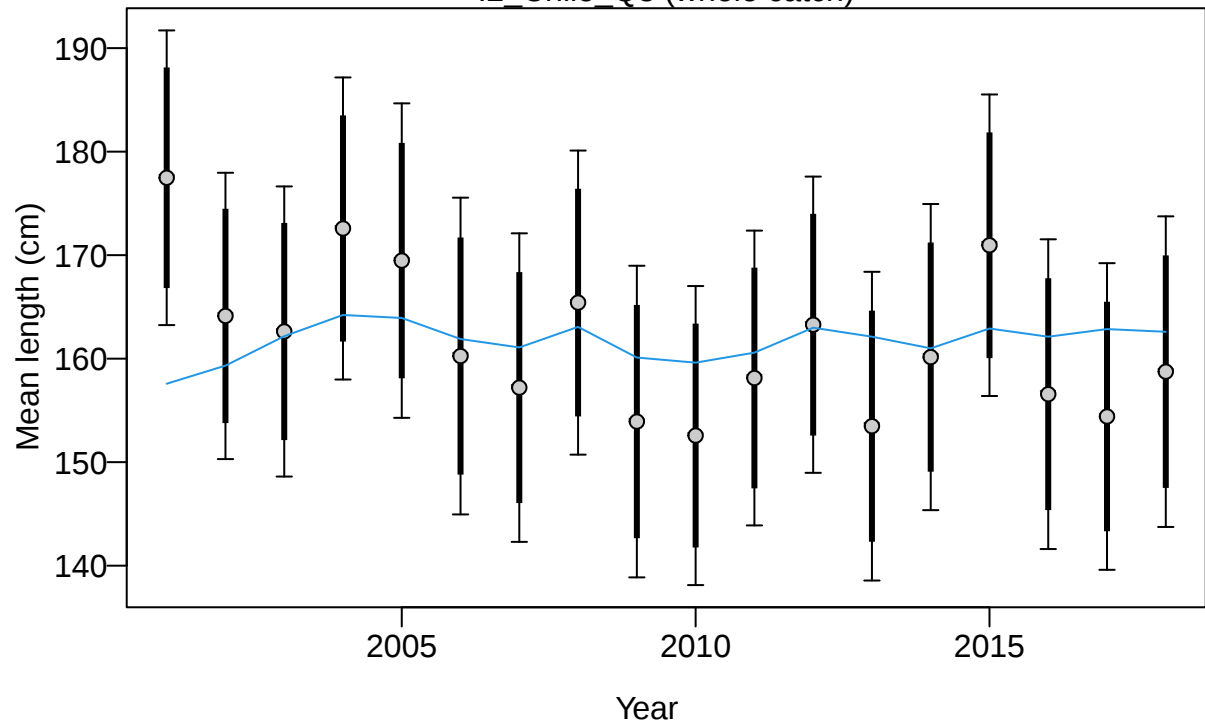




Effective sample size



I2_Chile_Q3 (whole catch)

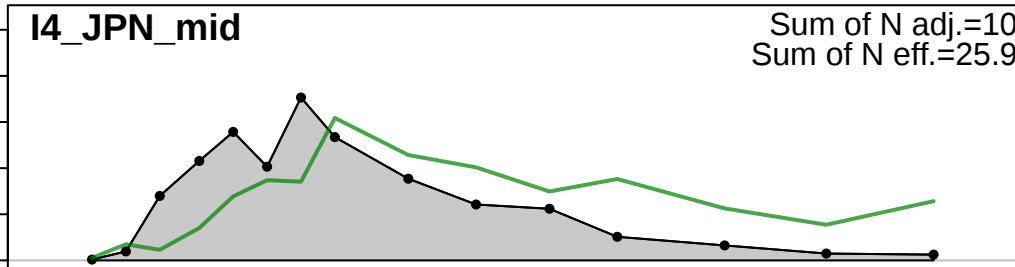


Proportion

I4_JPN_mid

Sum of N adj.=10
Sum of N eff.=25.9

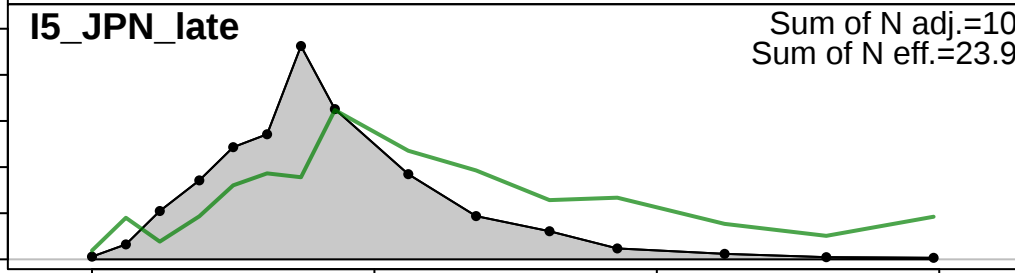
0.25
0.20
0.15
0.10
0.05
0.00



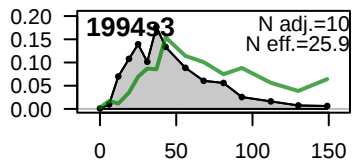
I5_JPN_late

Sum of N adj.=10
Sum of N eff.=23.9

0.25
0.20
0.15
0.10
0.05
0.00

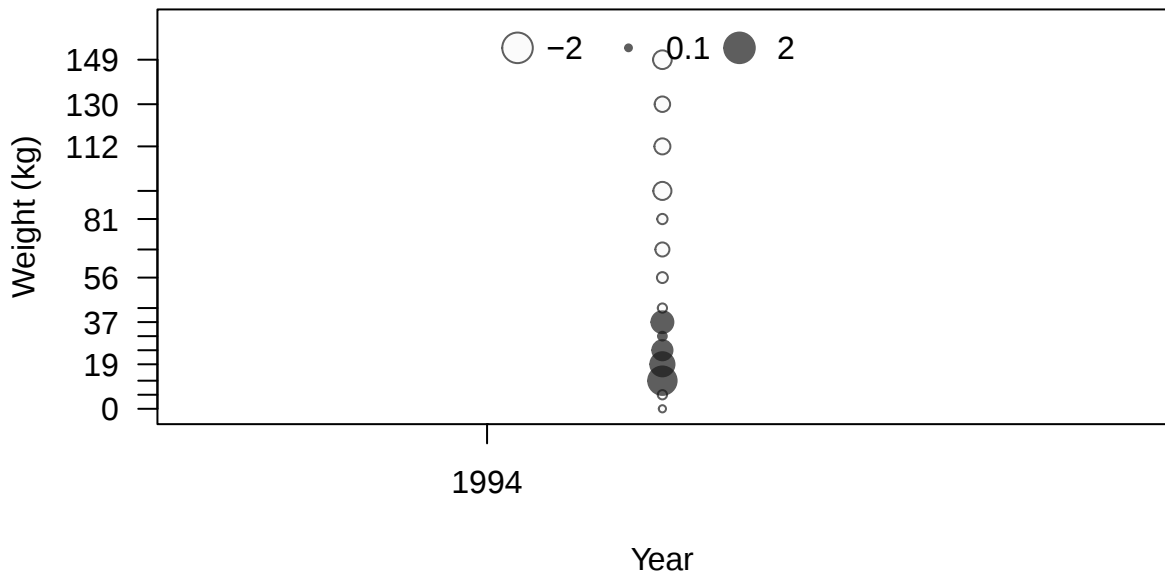


Weight (kg)

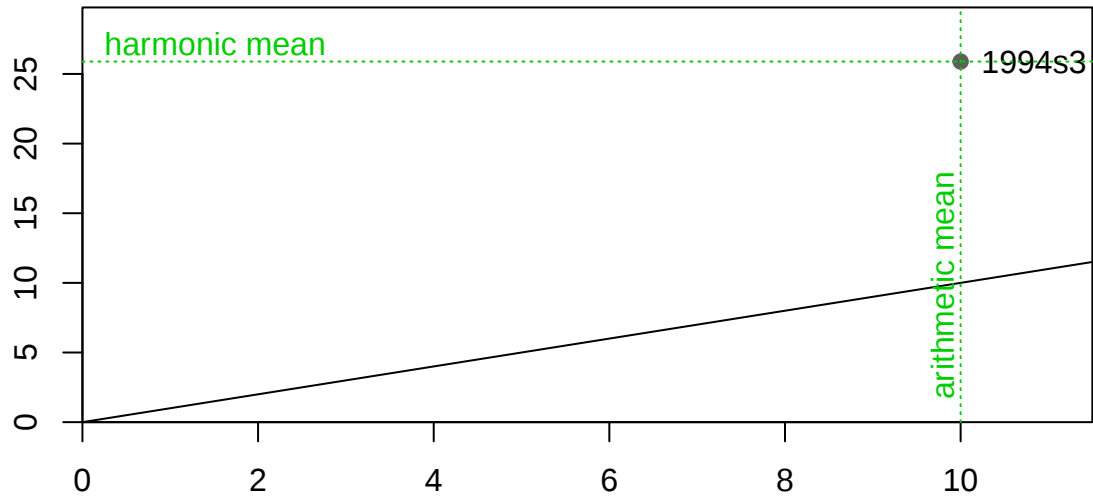


Proportion

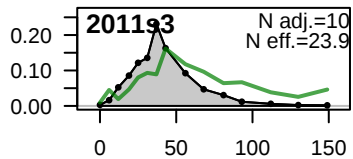
Weight (kg)

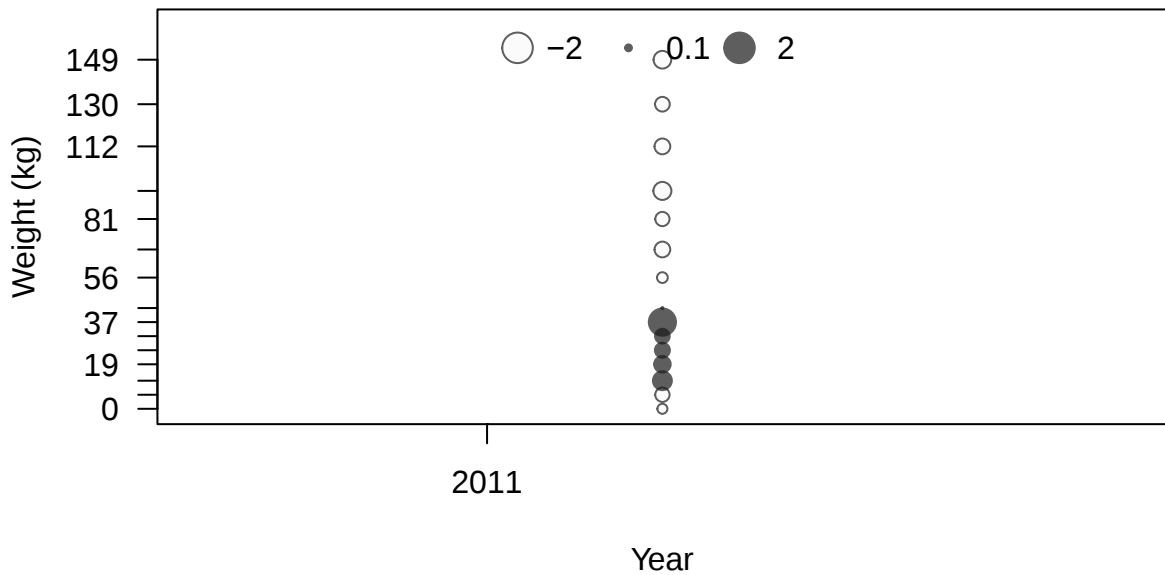


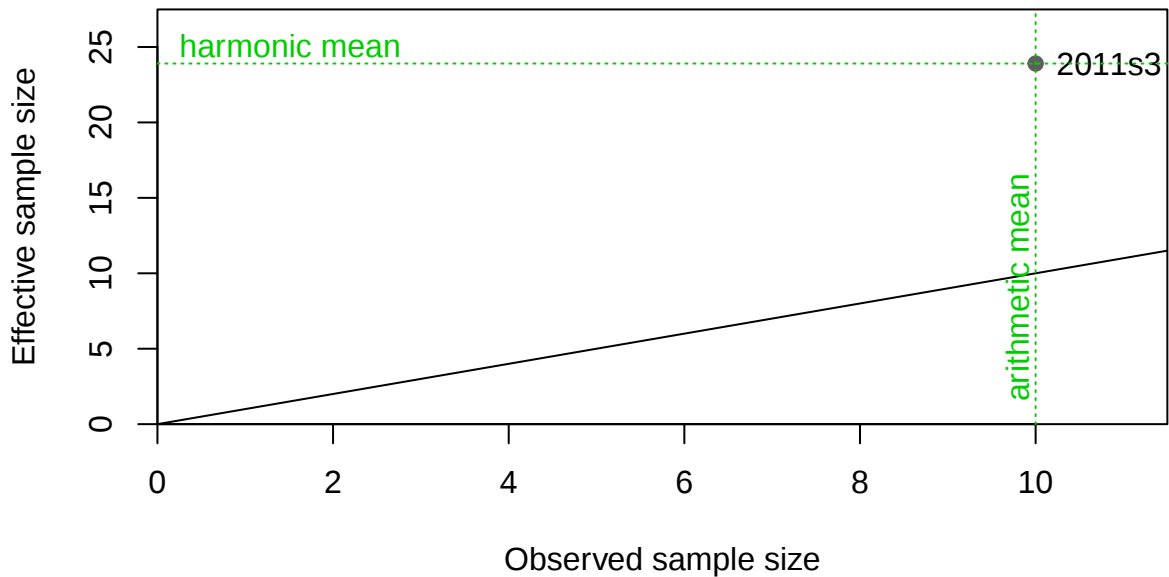
Effective sample size

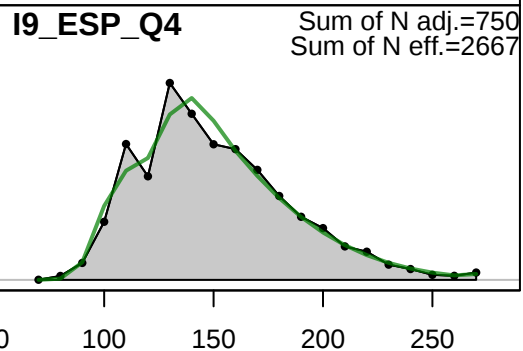
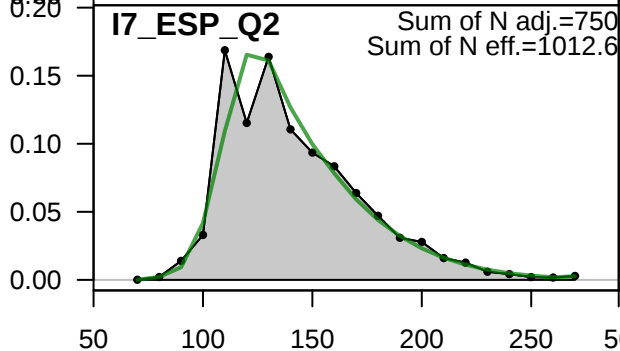
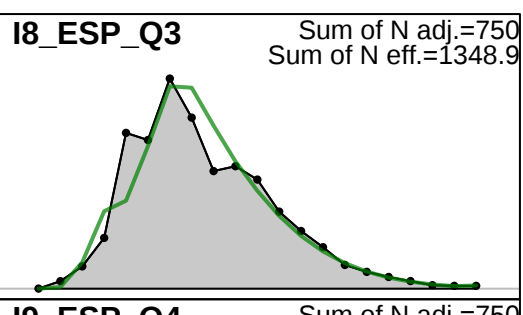
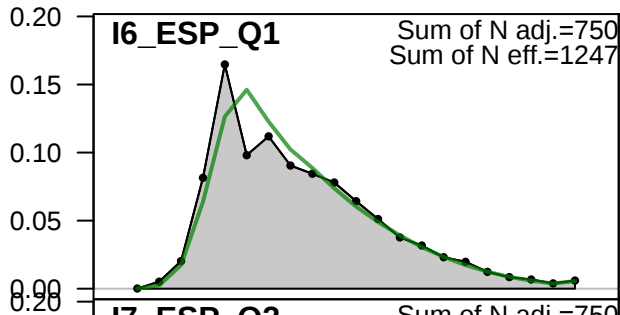


Observed sample size

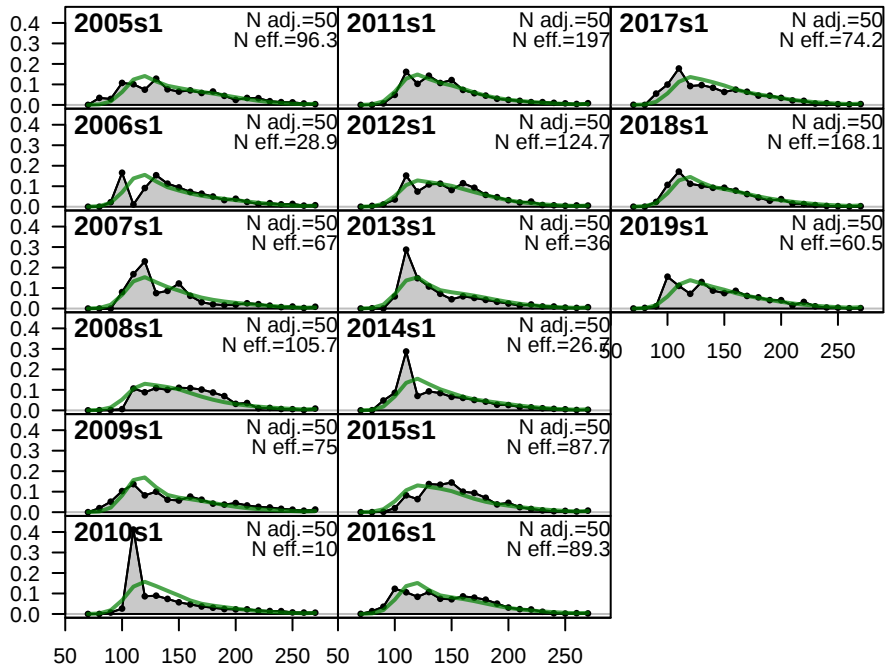




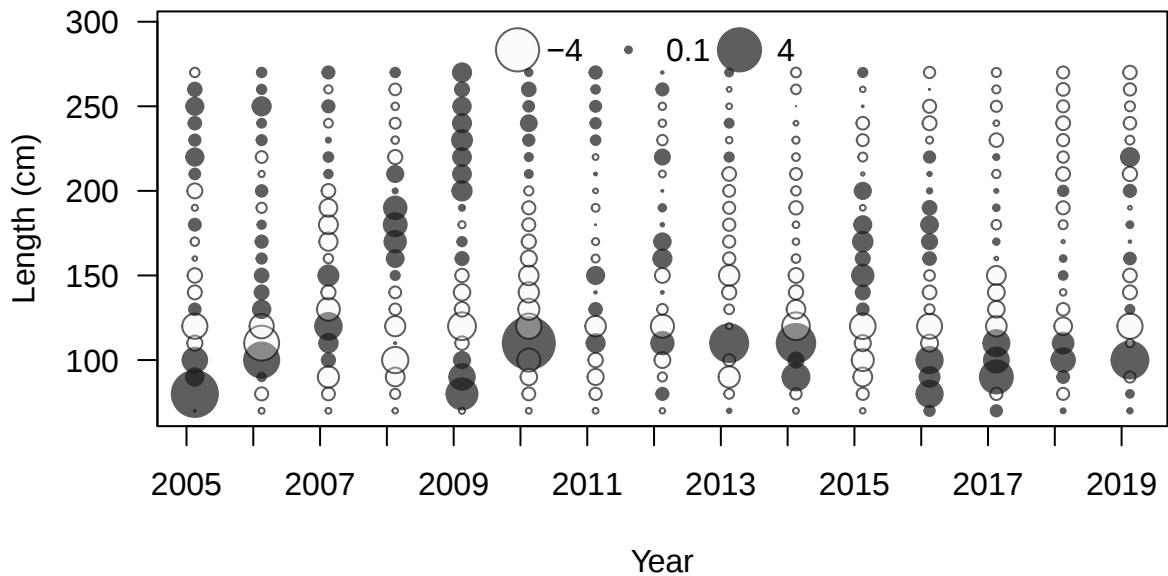




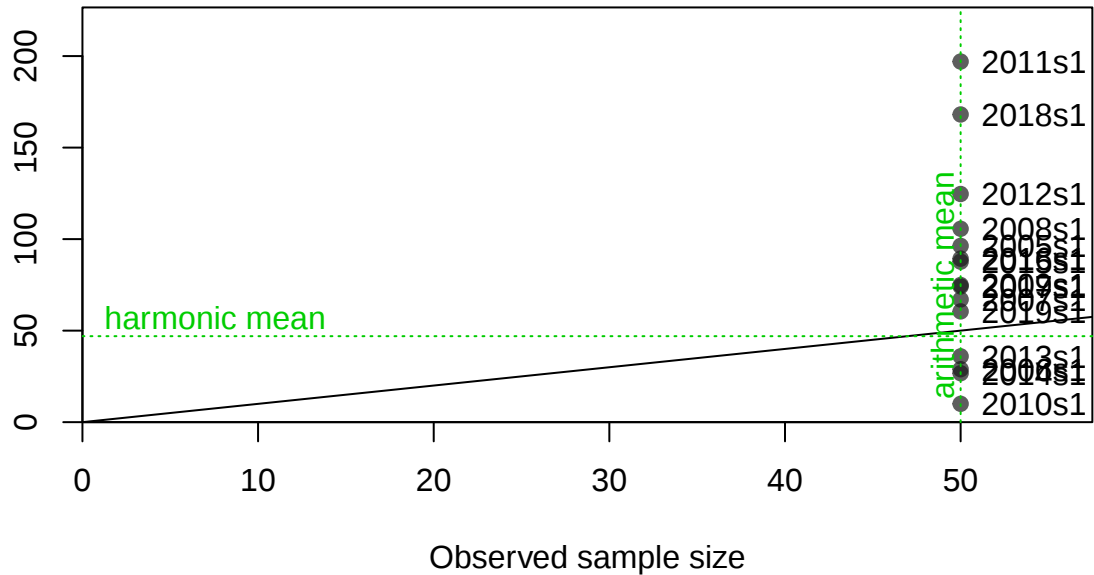
Proportion



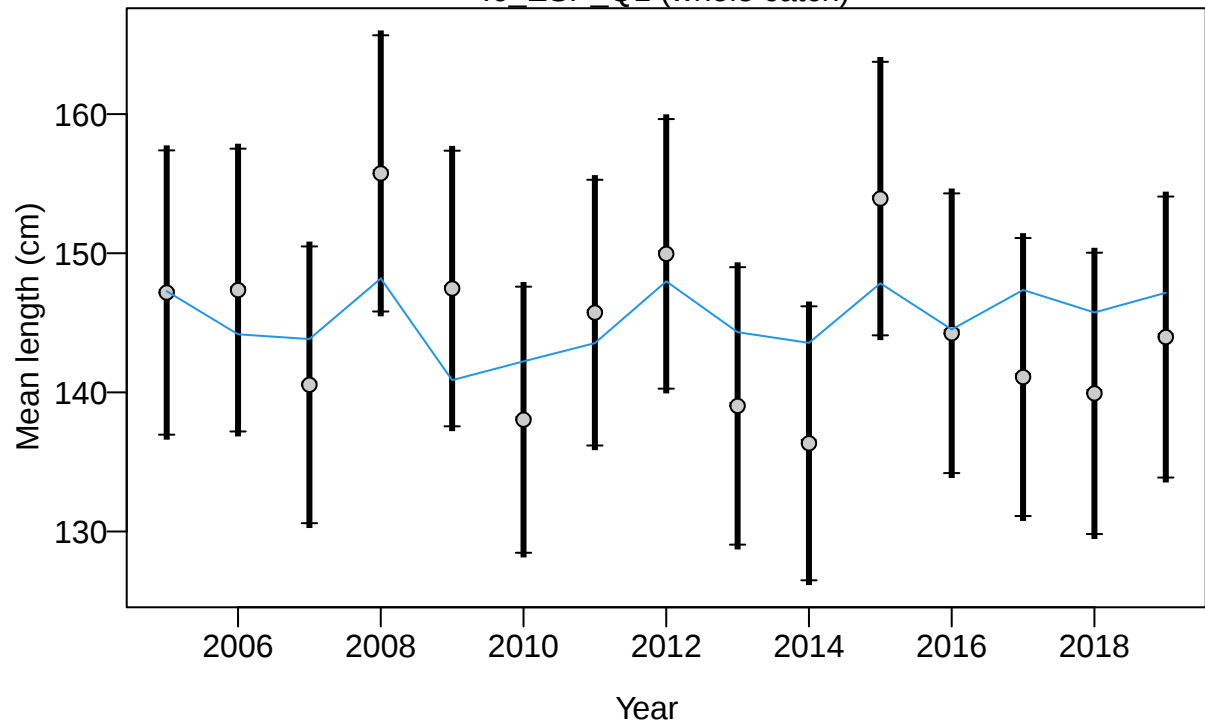
Length (cm)



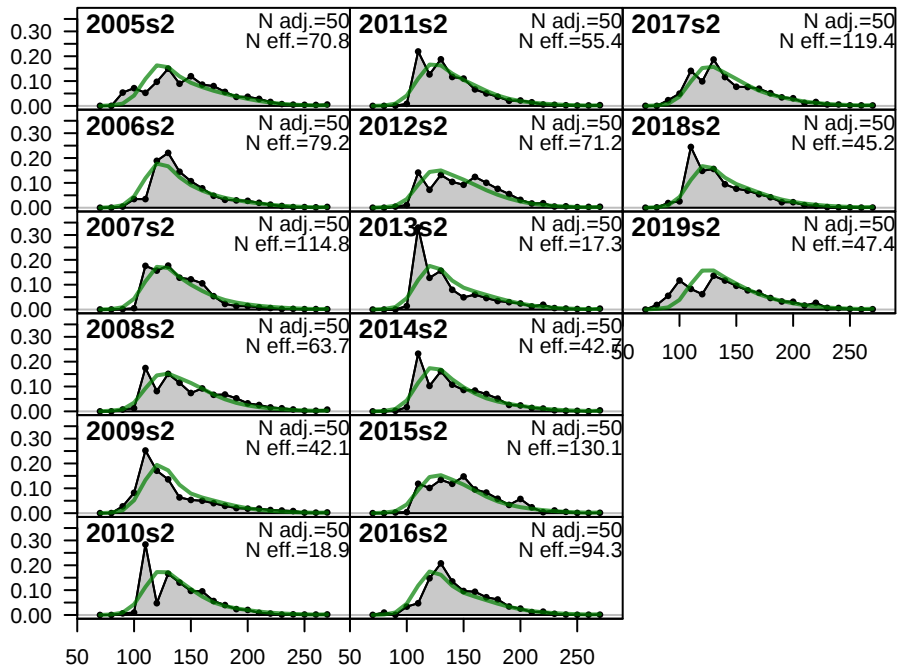
Effective sample size



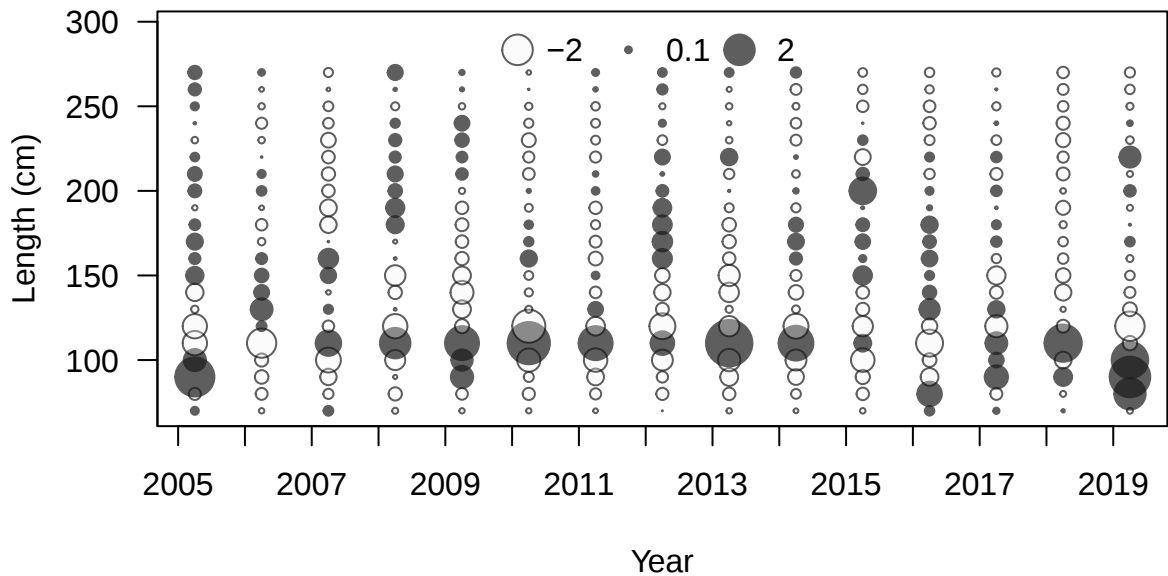
I6_ESP_Q1 (whole catch)



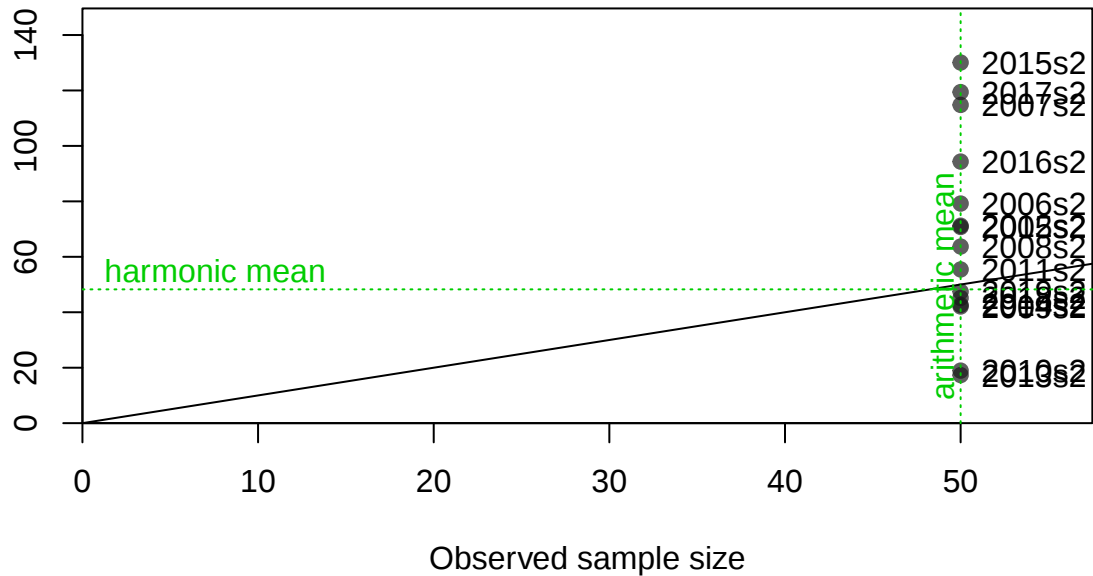
Proportion



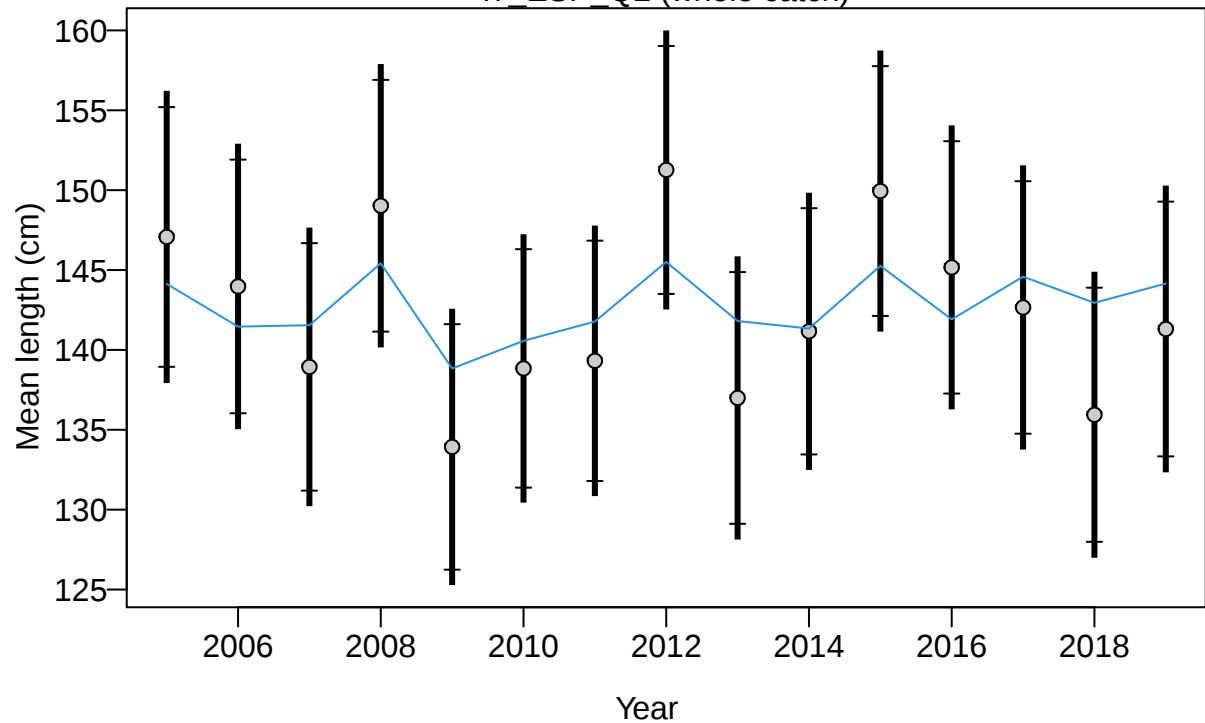
Length (cm)



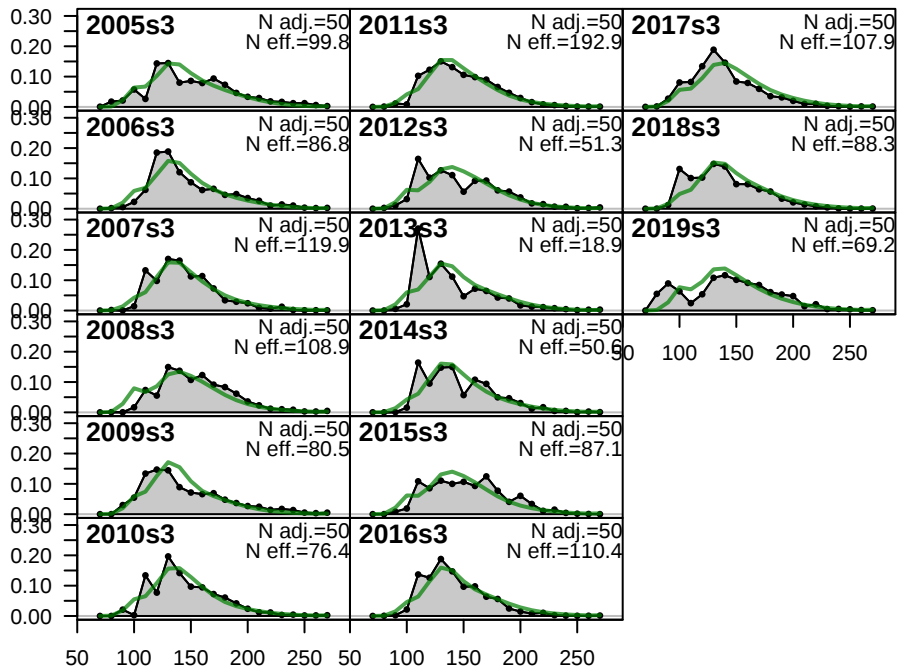
Effective sample size



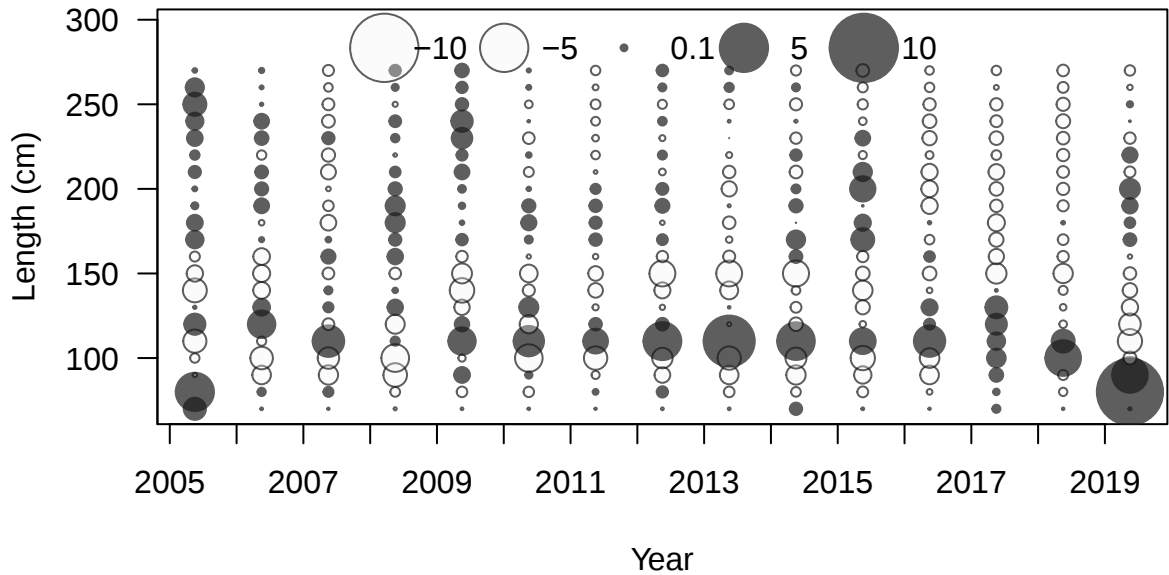
I7_ESP_Q2 (whole catch)



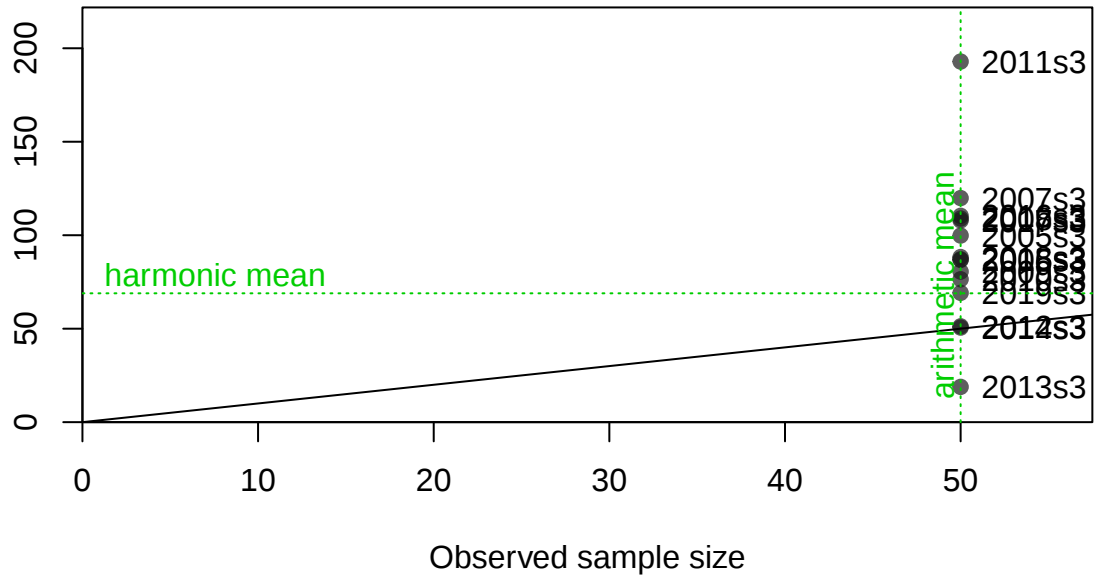
Proportion



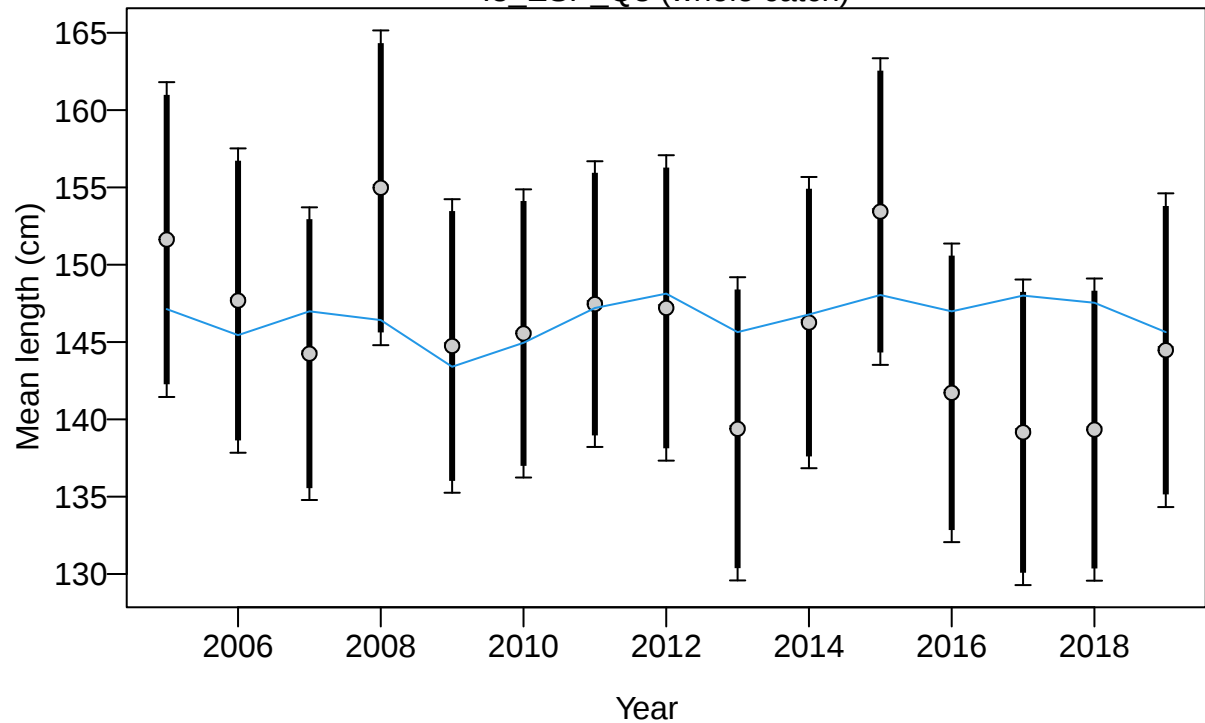
Length (cm)

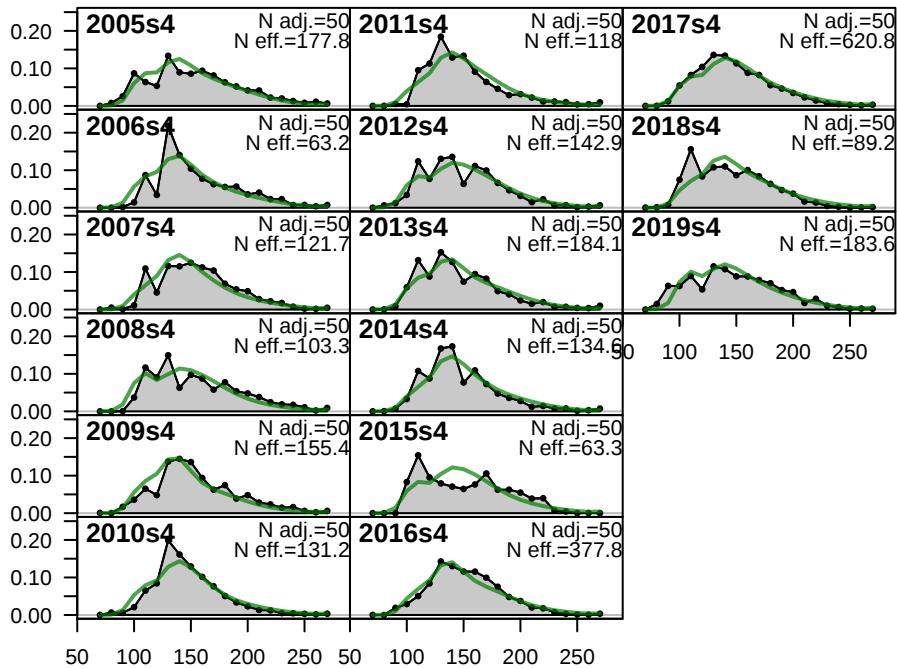


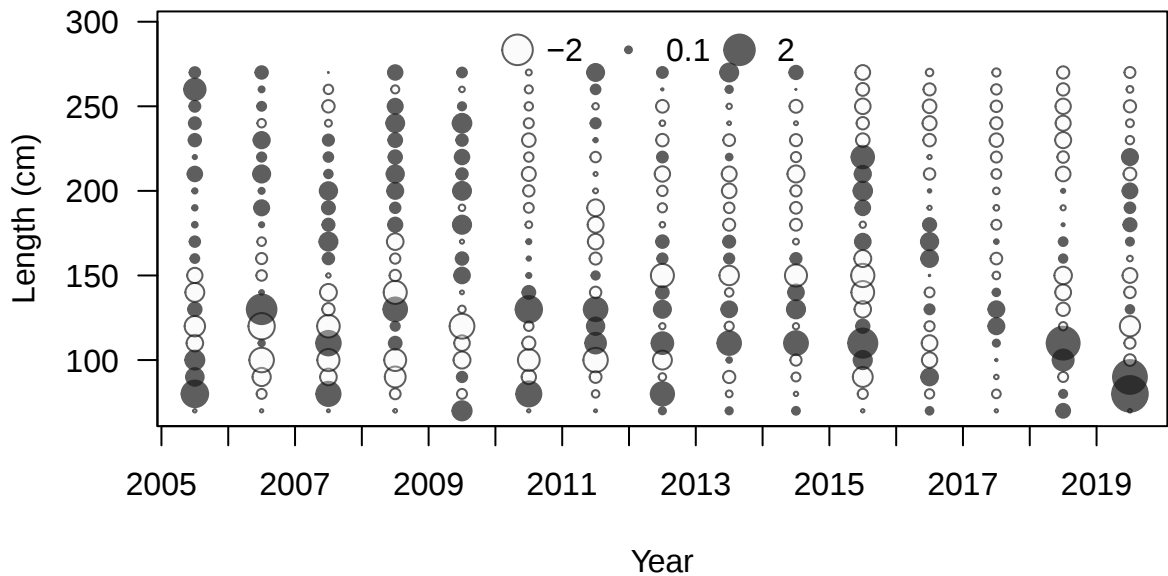
Effective sample size



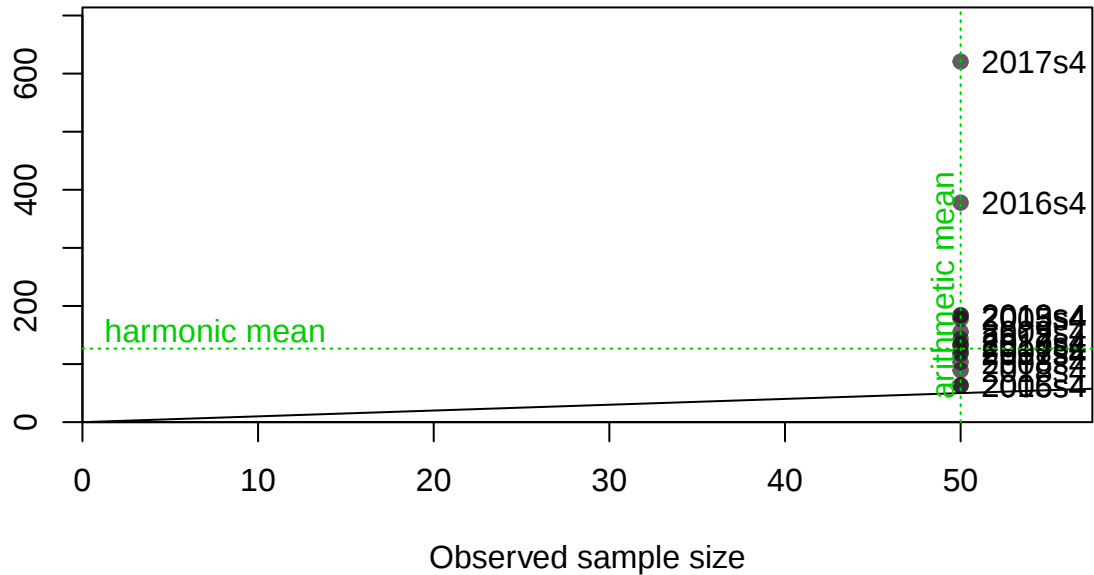
I8_ESP_Q3 (whole catch)



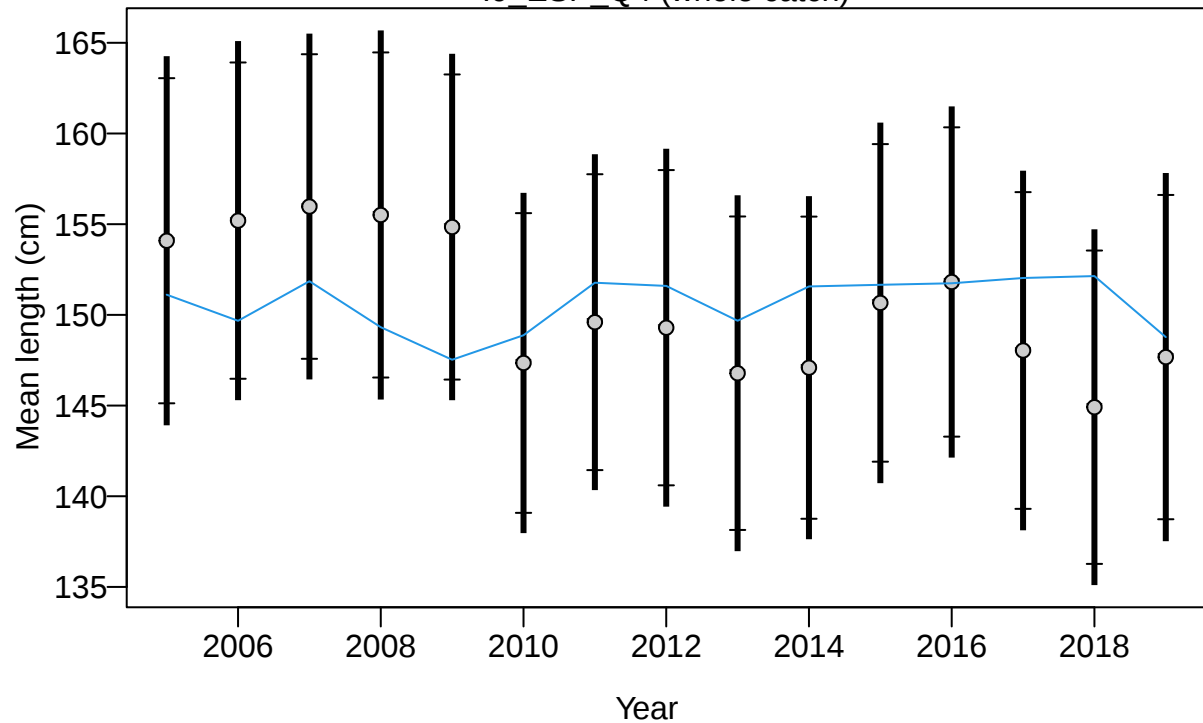


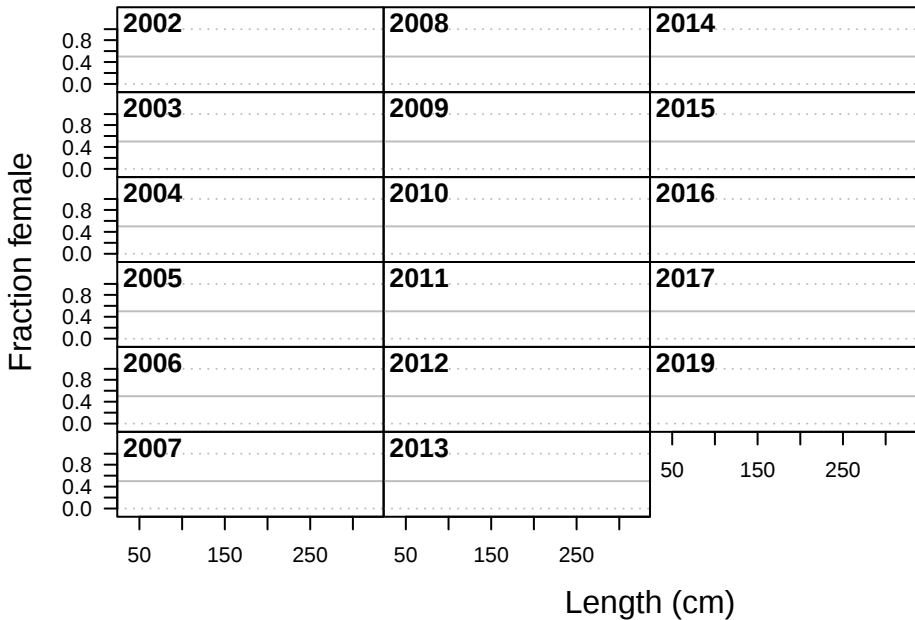


Effective sample size

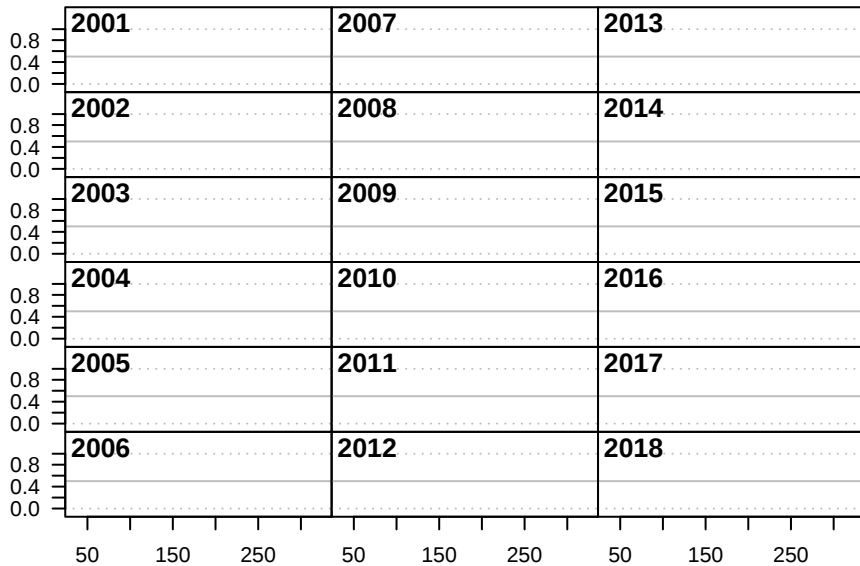


I9_ESP_Q4 (whole catch)





Fraction female



Length (cm)

Proportion

F3_GN_A5

Sum of N adj.=308
Sum of N eff.=1203.1

F5_LL_Coast_A5

Sum of N adj.=498.4
Sum of N eff.=1107.9

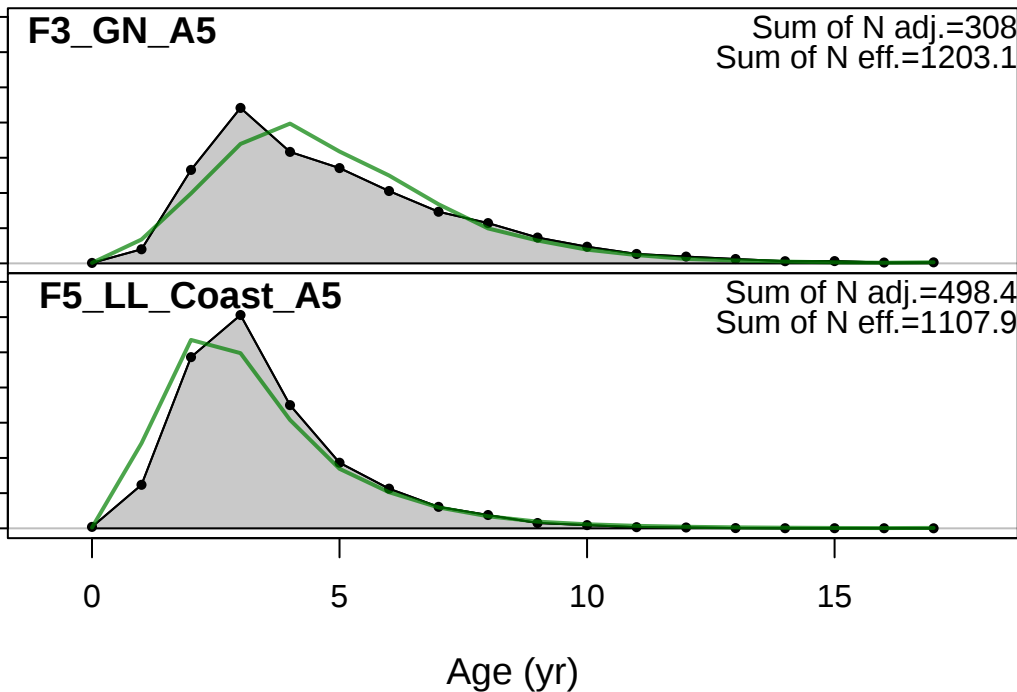
0

5

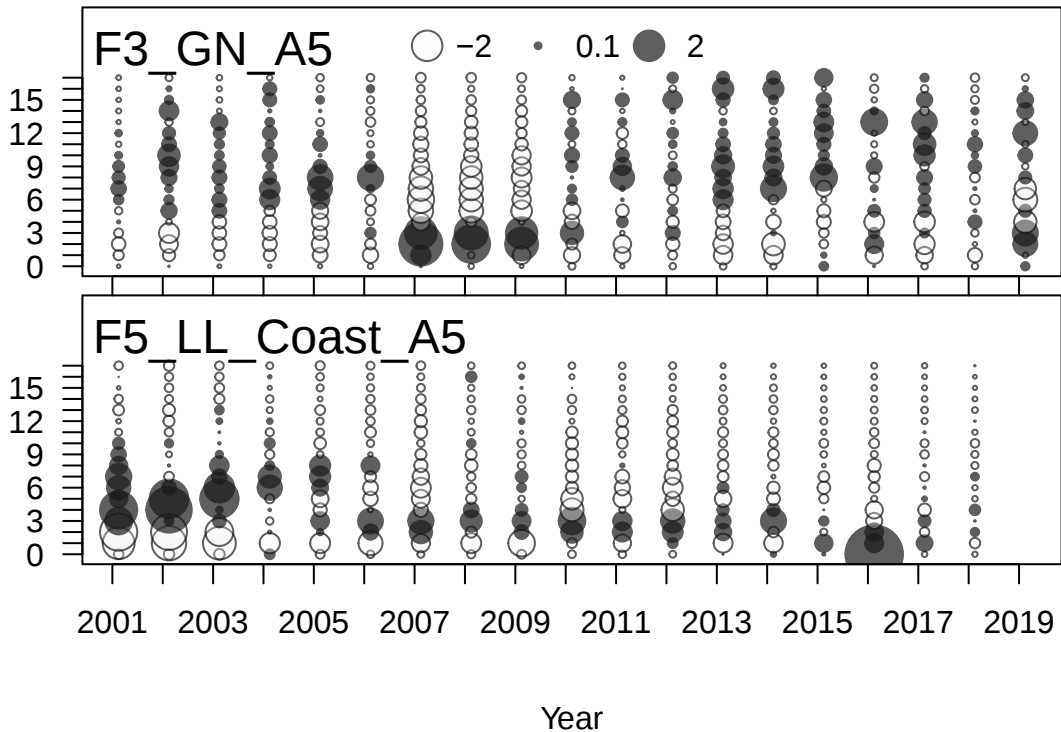
10

15

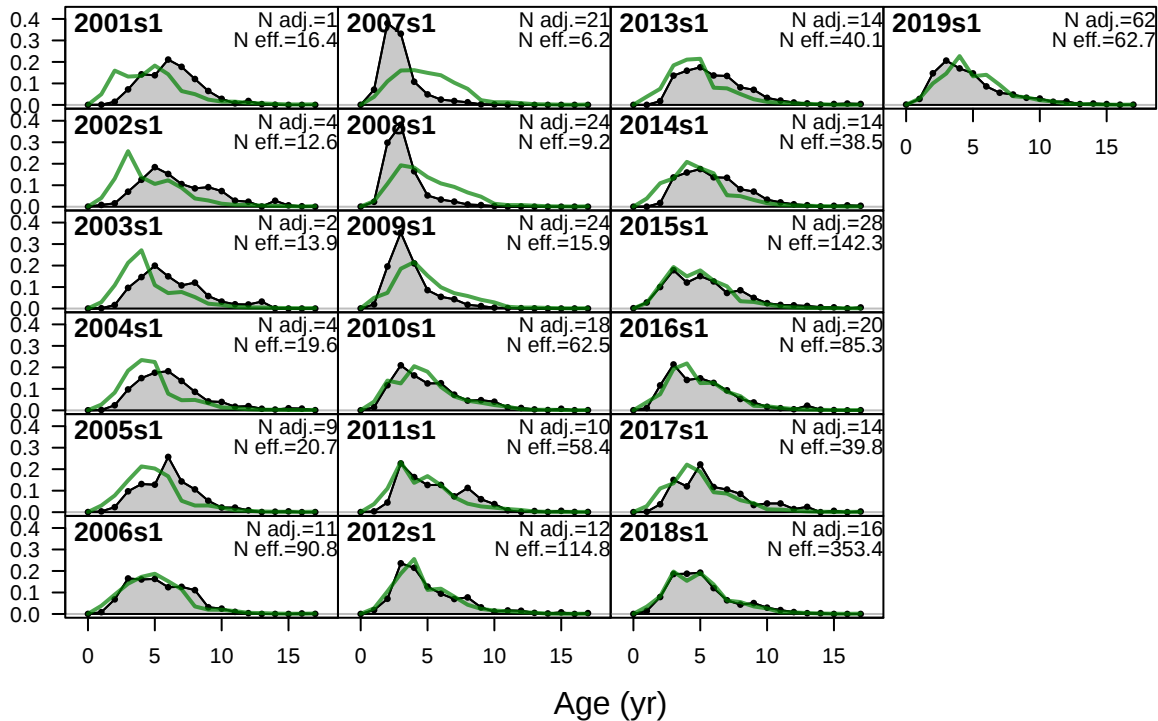
Age (yr)

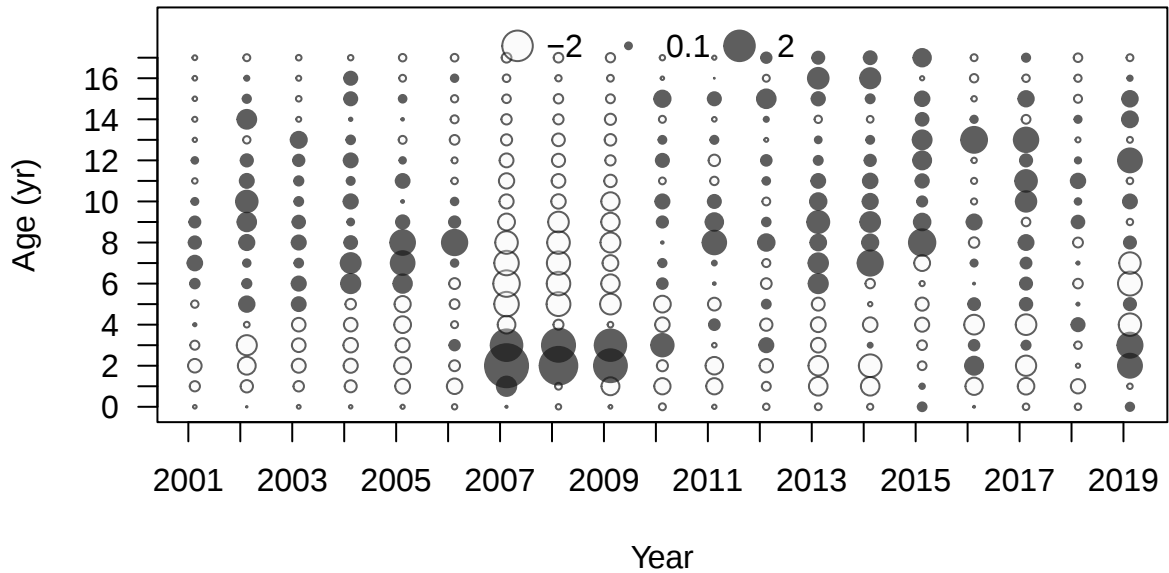


Age (yr)

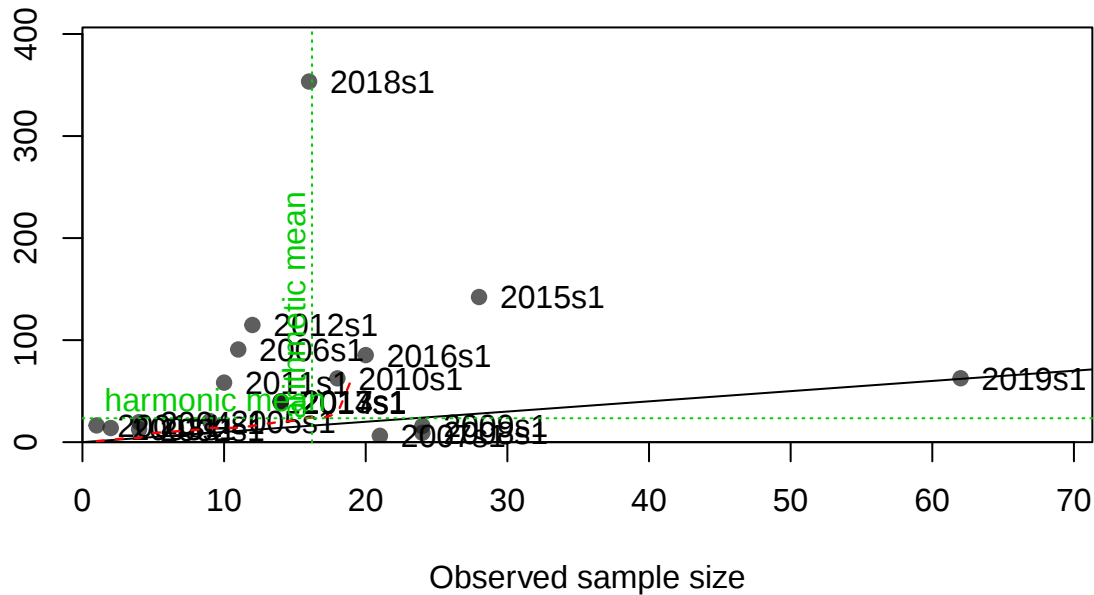


Proportion

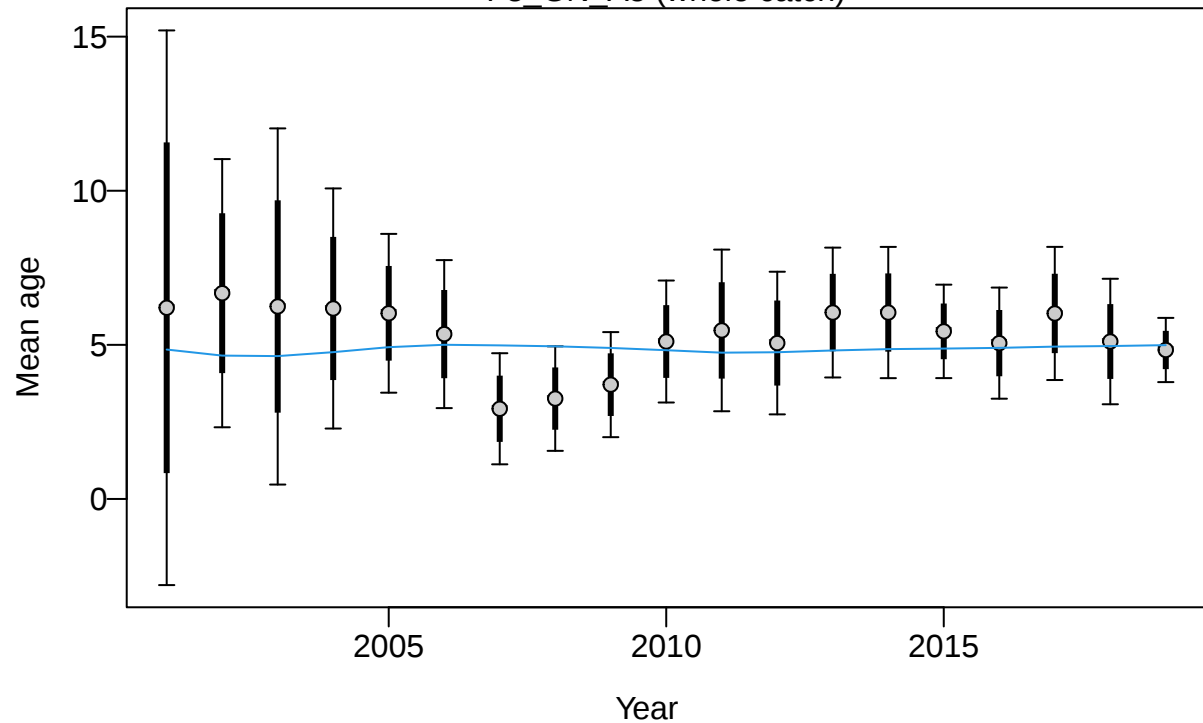




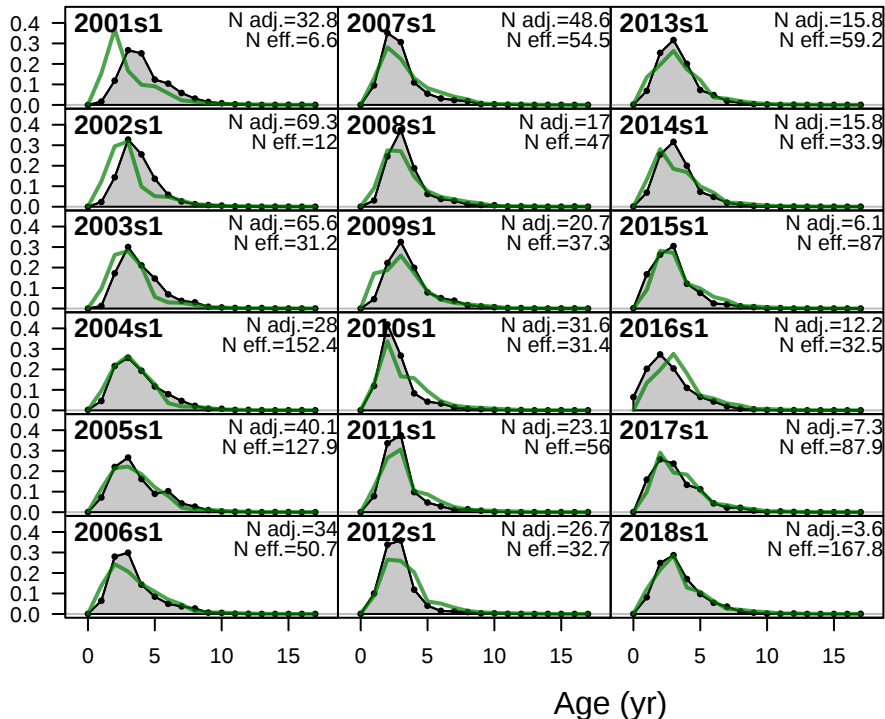
Effective sample size

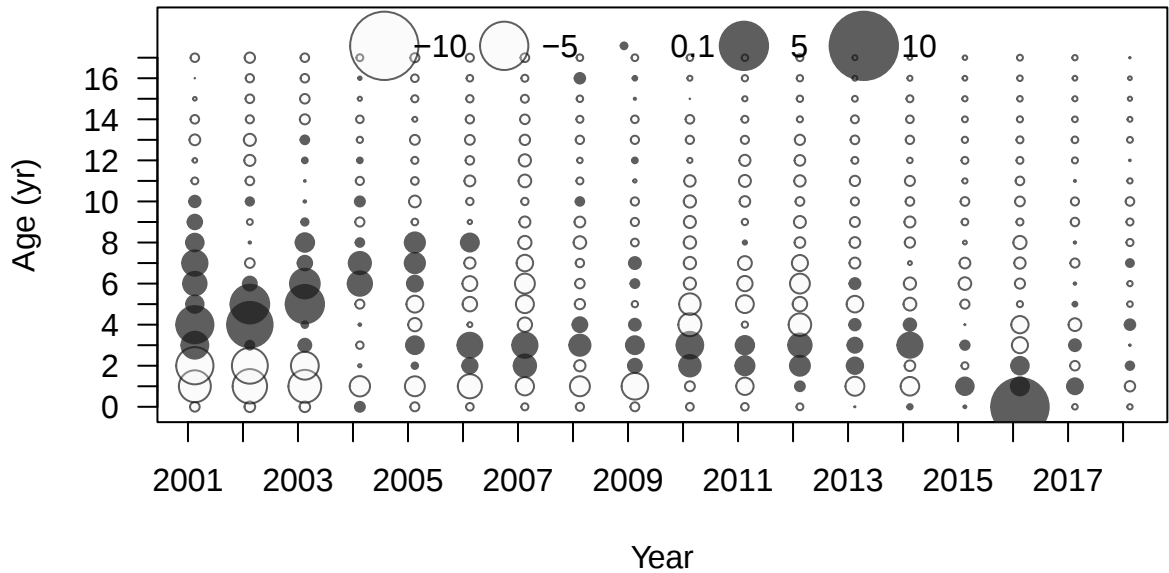


F3_GN_A5 (whole catch)

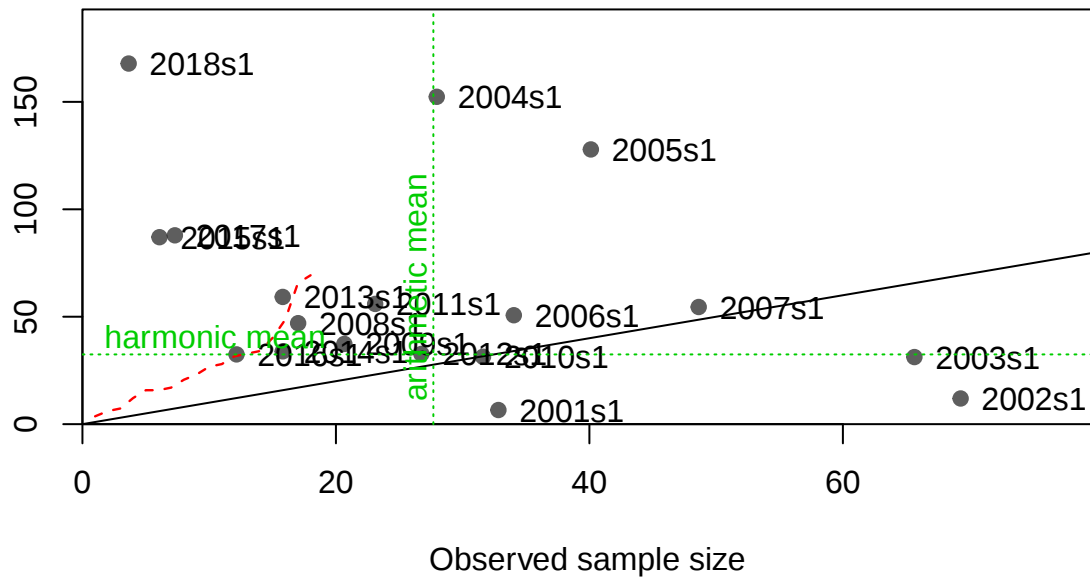


Proportion

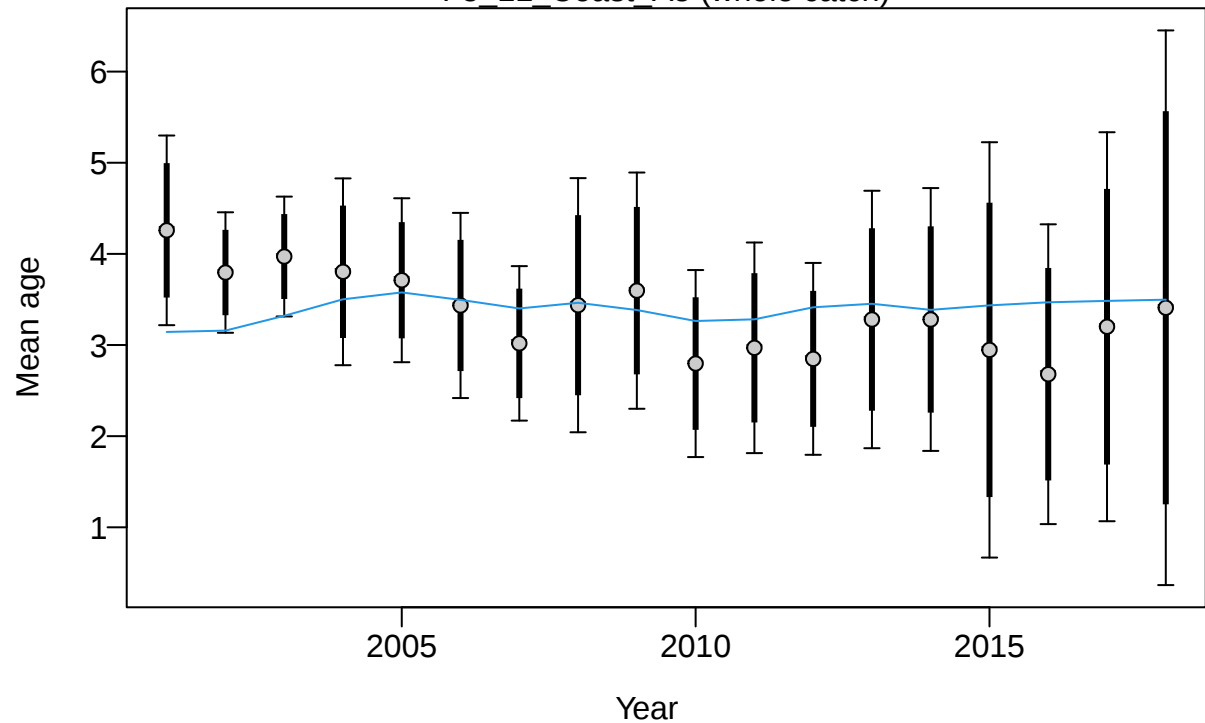


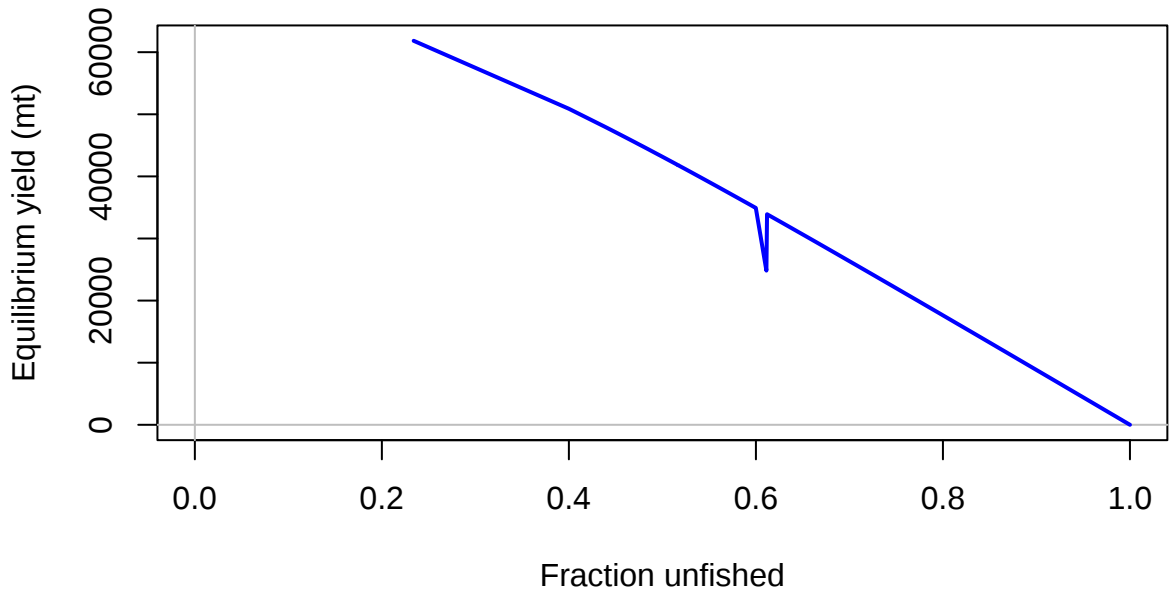


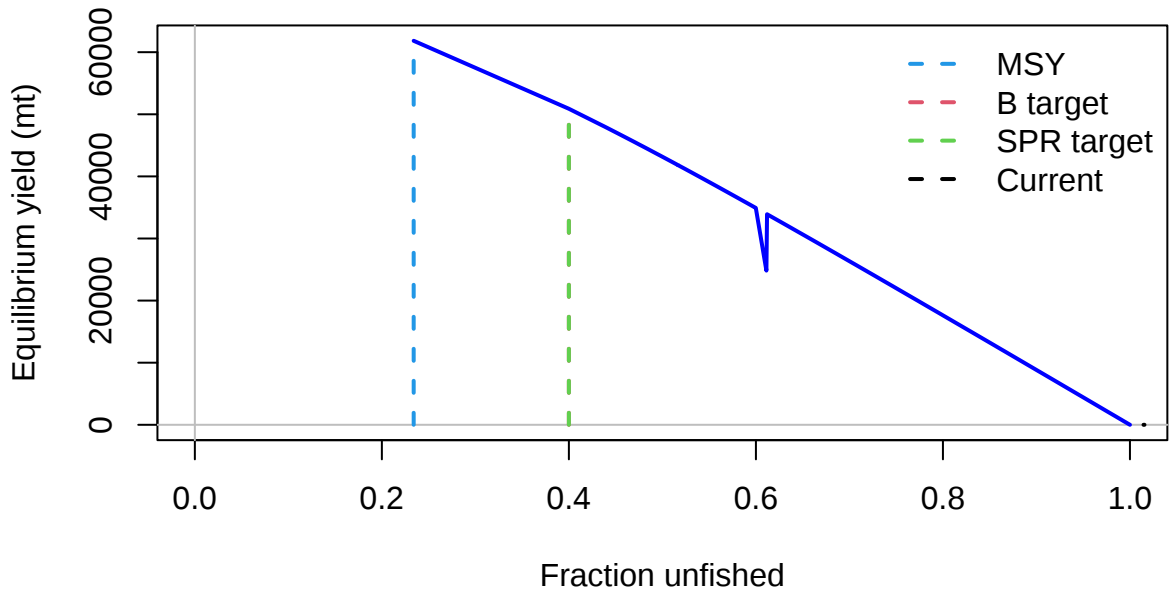
Effective sample size

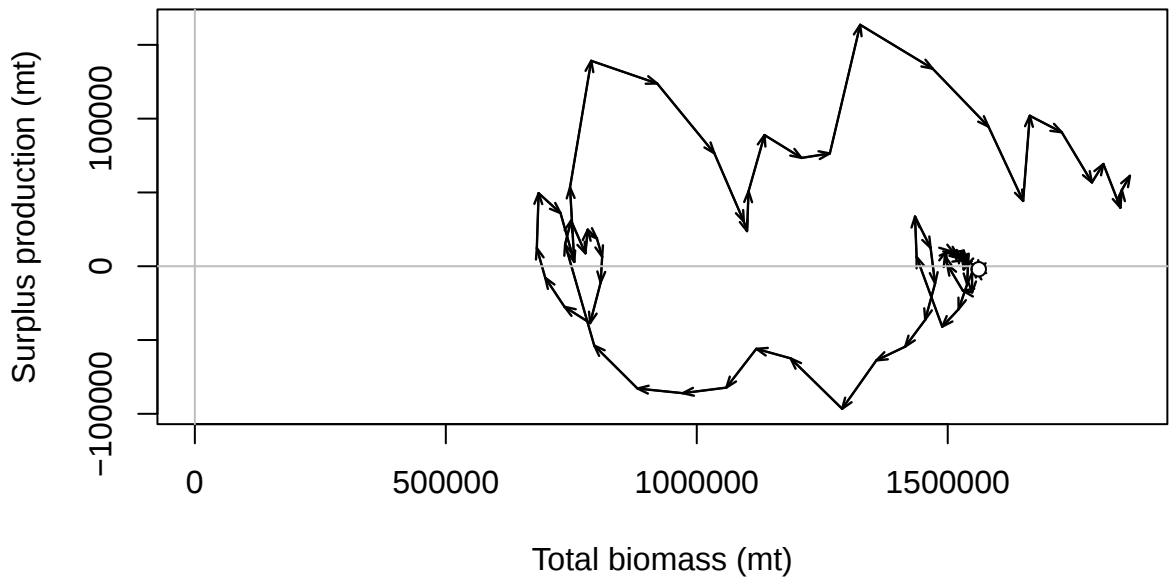


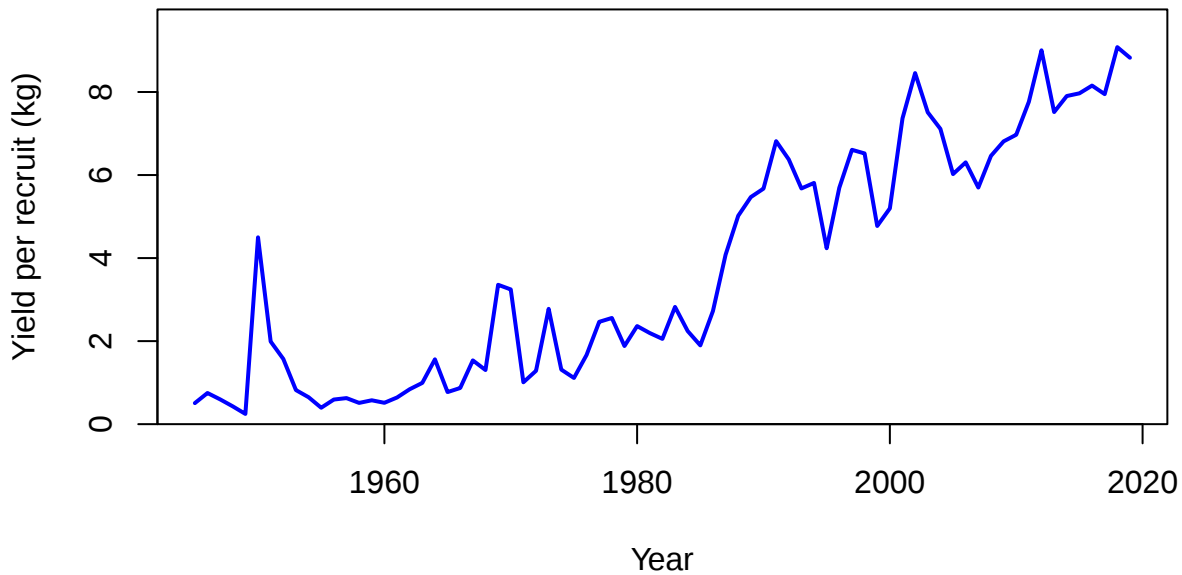
F5_LL_Coast_A5 (whole catch)

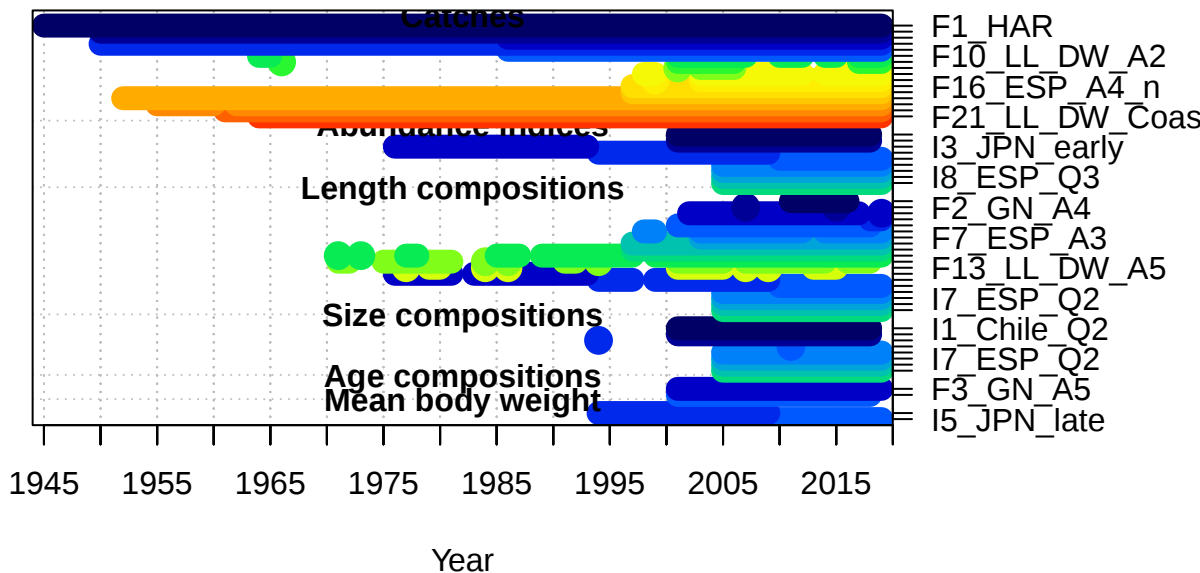


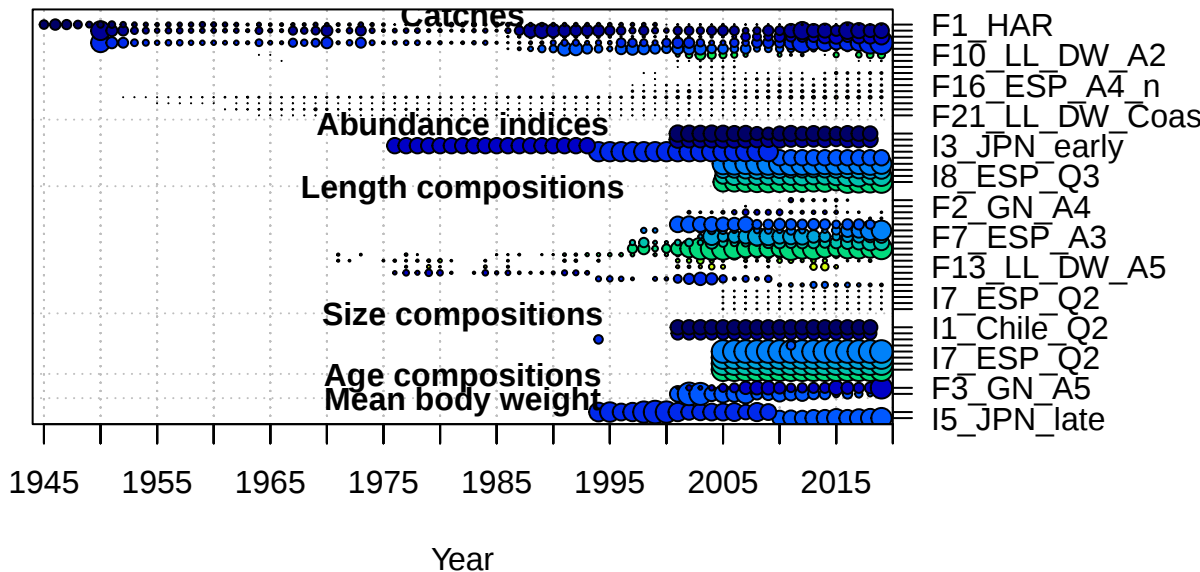




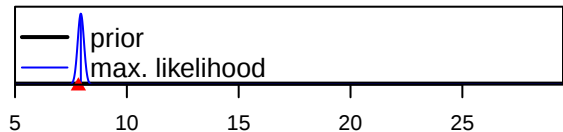




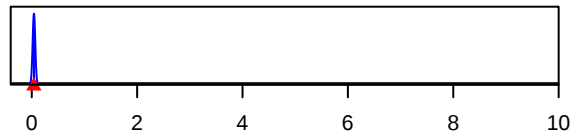




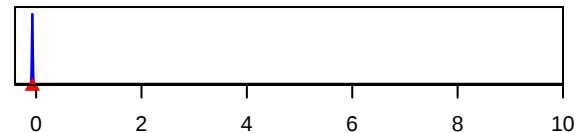
SR_LN(R0)



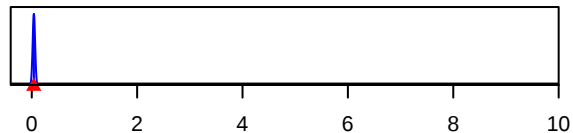
Q_extraSD_l8_ESP_Q3(29)



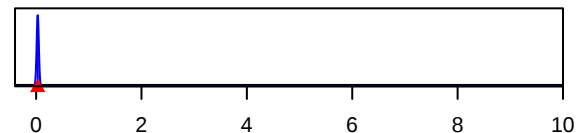
Q_extraSD_l4_JPN_mid(25)



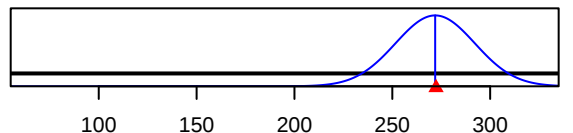
Q_extraSD_l9_ESP_Q4(30)



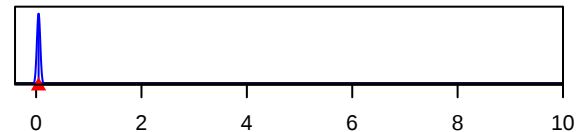
Q_extraSD_l6_ESP_Q1(27)



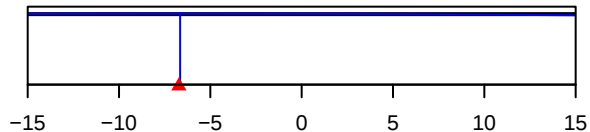
Size_DbIN_peak_F1_HAR(1)



Q_extraSD_l7_ESP_Q2(28)

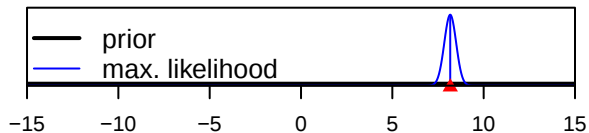


Size_DbIN_top_logit_F1_HAR(1)

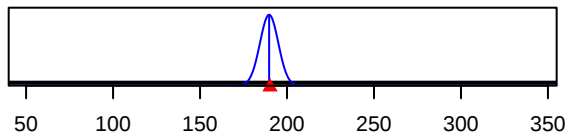


Parameter value

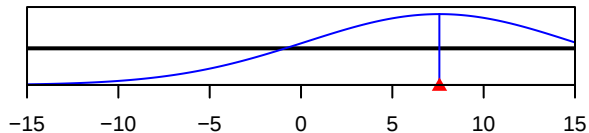
Size_DblN_ascend_se_F1_HAR(1)



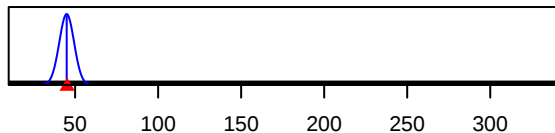
Size_inflection_F2_GN_A4(2)



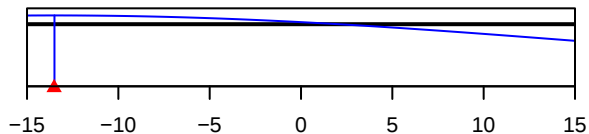
Size_DblN_descend_se_F1_HAR(1)



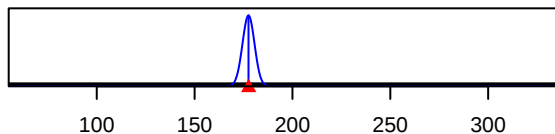
Size_95%width_F2_GN_A4(2)



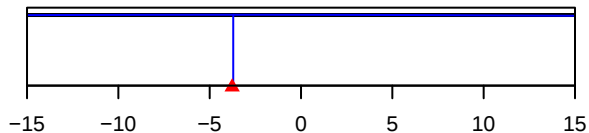
Size_DblN_start_logit_F1_HAR(1)



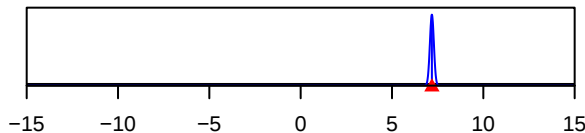
Size_DblN_peak_F4_LL_Coast_A4(4)

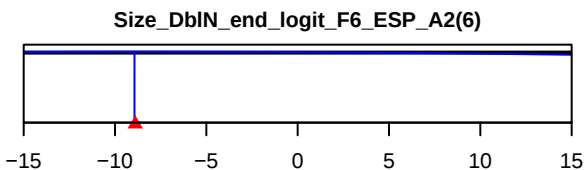
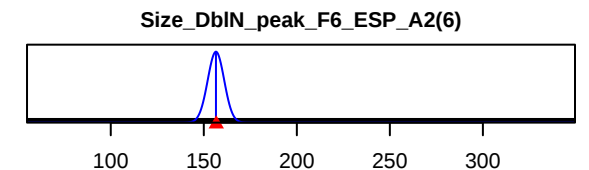
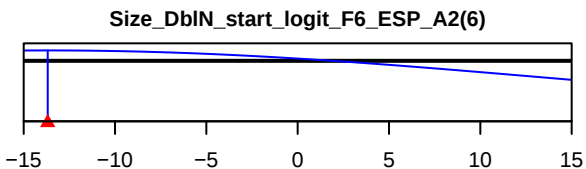
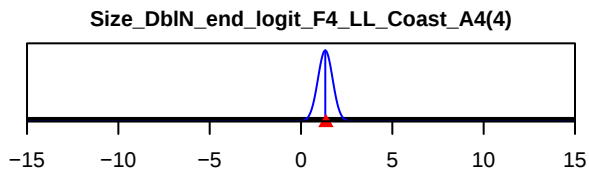
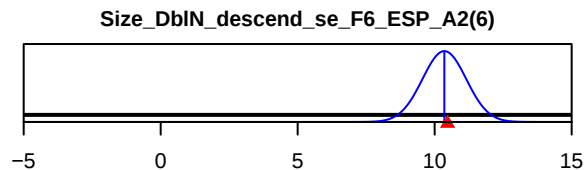
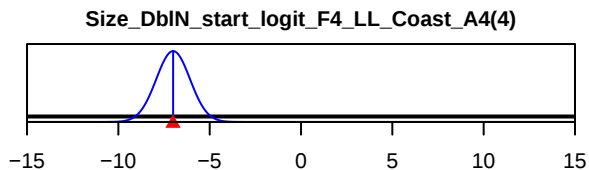
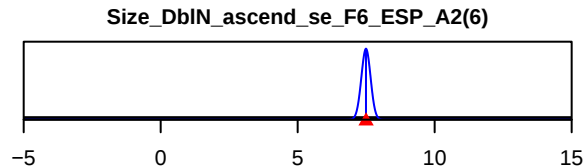
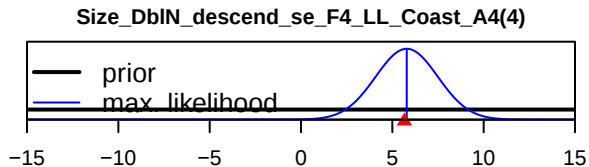


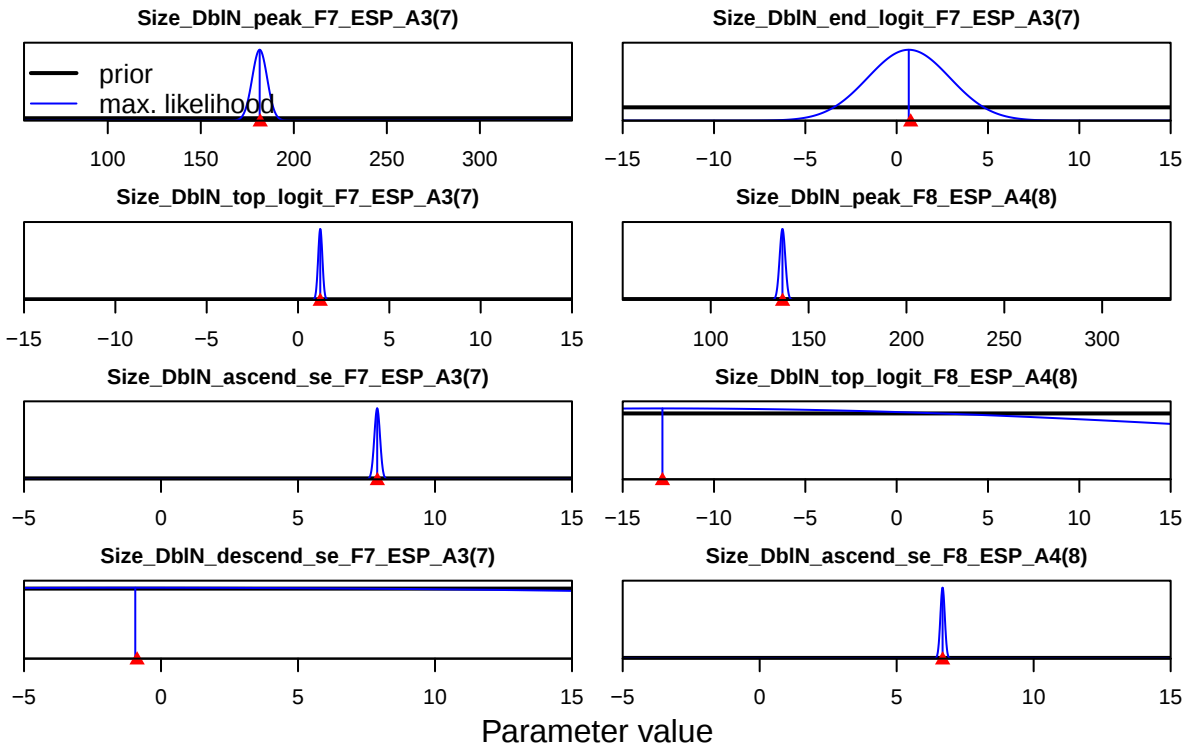
Size_DblN_end_logit_F1_HAR(1)

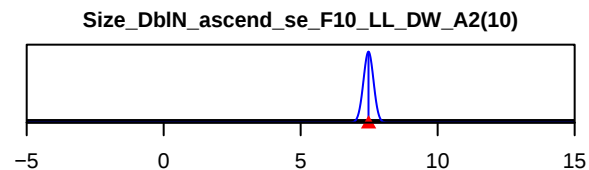
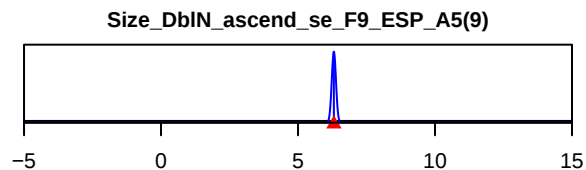
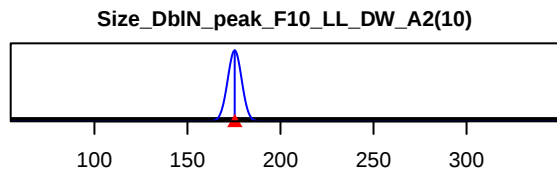
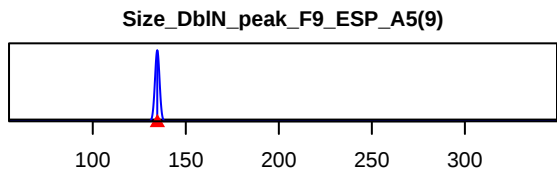
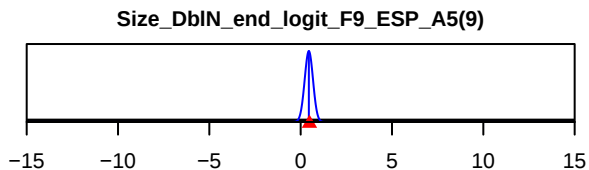
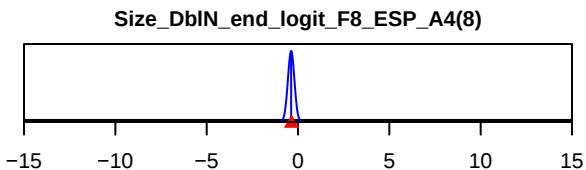
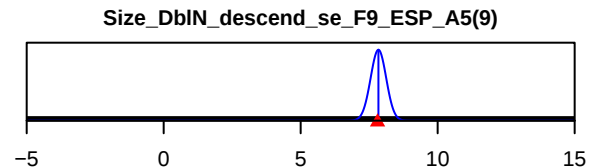
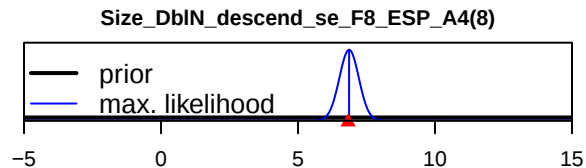


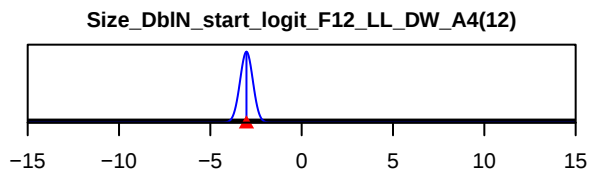
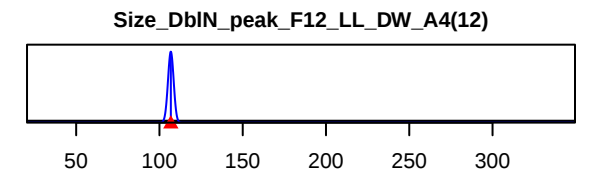
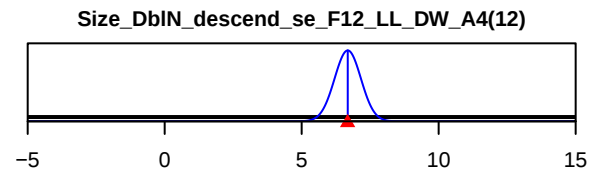
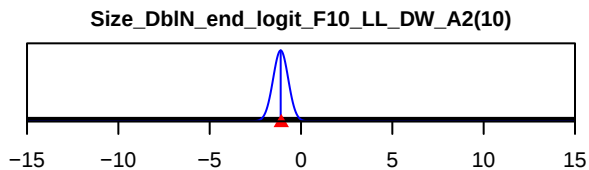
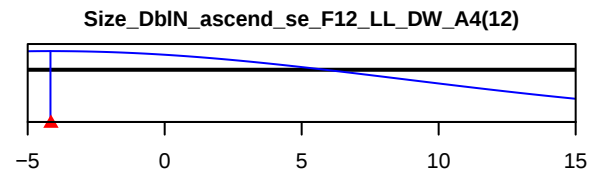
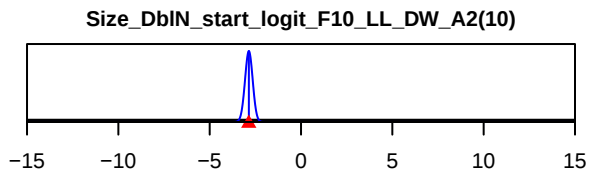
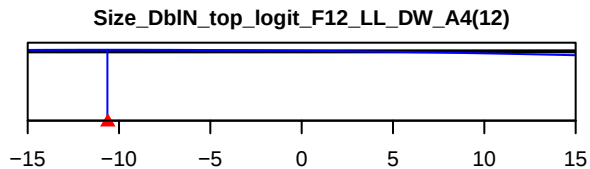
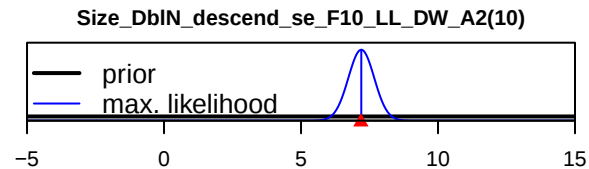
Size_DblN_ascend_se_F4_LL_Coast_A4(4)

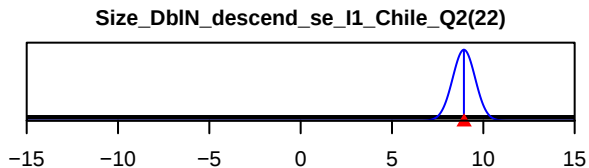
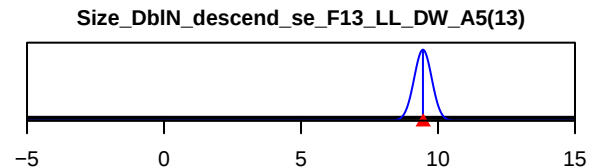
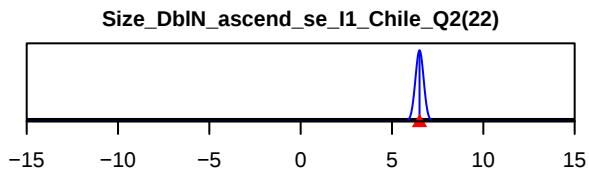
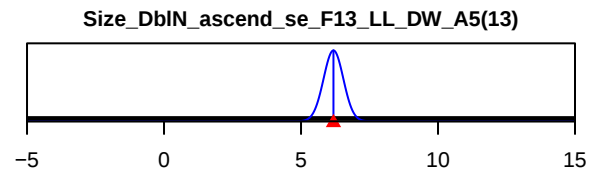
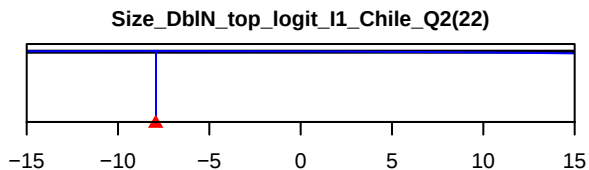
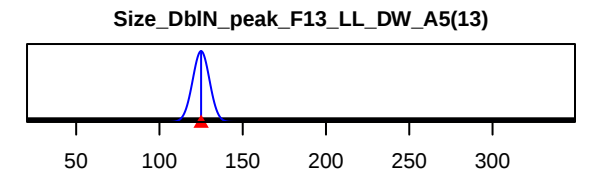
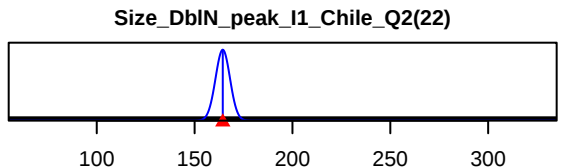
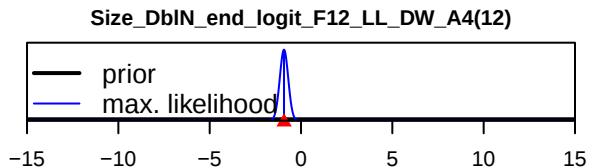




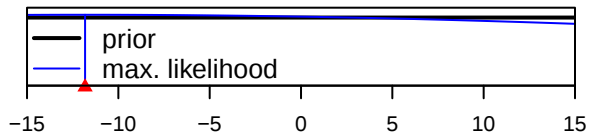




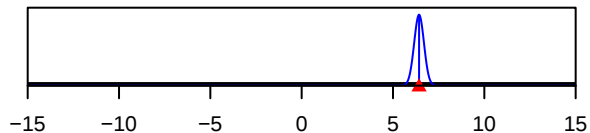




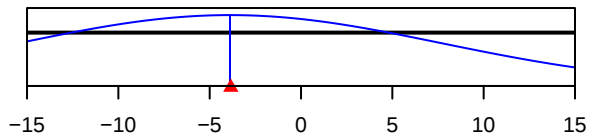
Size_DbIN_start_logit_I1_Chile_Q2(22)



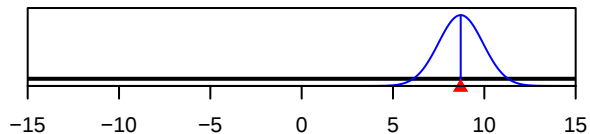
Size_DbIN_ascend_se_I2_Chile_Q3(23)



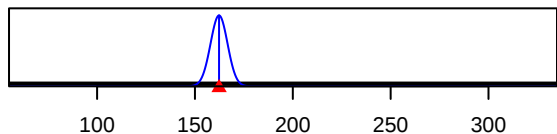
Size_DbIN_end_logit_I1_Chile_Q2(22)



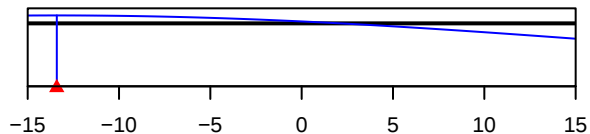
Size_DbIN_descend_se_I2_Chile_Q3(23)



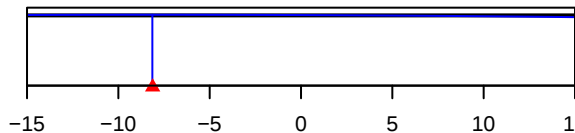
Size_DbIN_peak_I2_Chile_Q3(23)



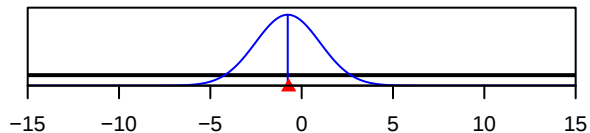
Size_DbIN_start_logit_I2_Chile_Q3(23)



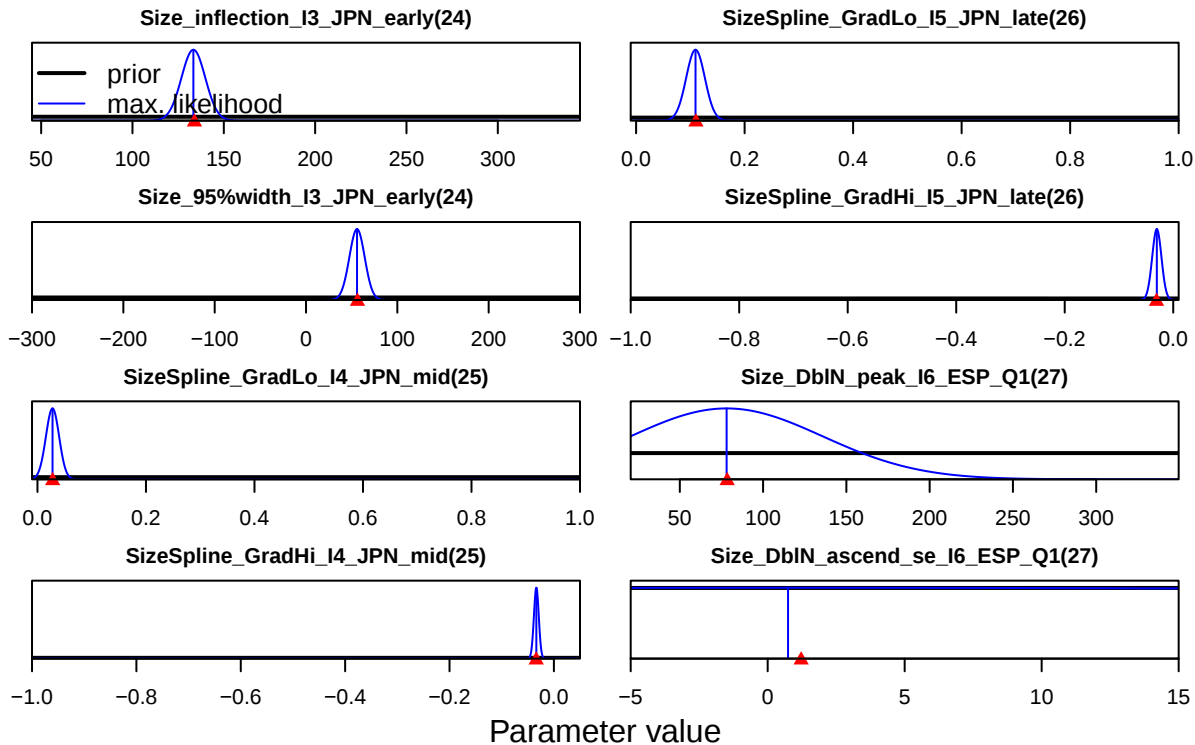
Size_DbIN_top_logit_I2_Chile_Q3(23)



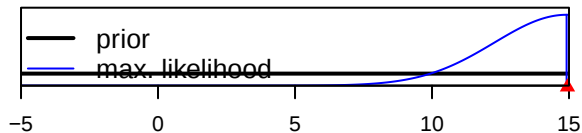
Size_DbIN_end_logit_I2_Chile_Q3(23)



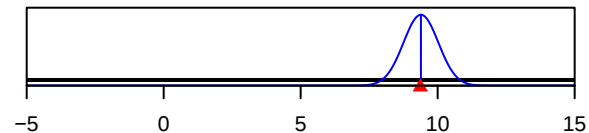
Parameter value



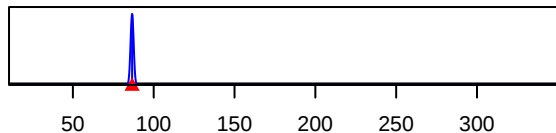
Size_DblN_descend_se_I6_ESP_Q1(27)



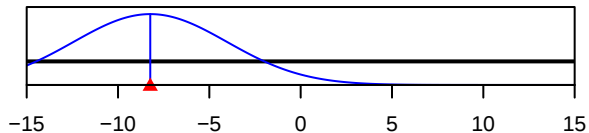
Size_DblN_descend_se_I7_ESP_Q2(28)



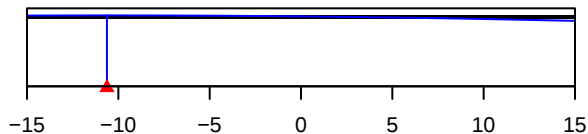
Size_DblN_peak_I7_ESP_Q2(28)



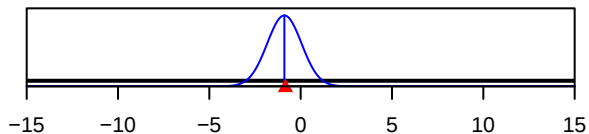
Size_DblN_start_logit_I7_ESP_Q2(28)



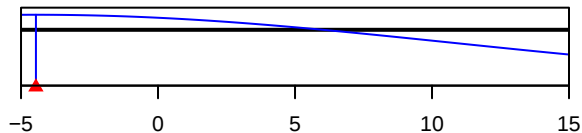
Size_DblN_top_logit_I7_ESP_Q2(28)



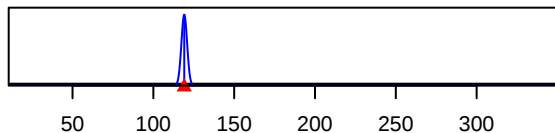
Size_DblN_end_logit_I7_ESP_Q2(28)



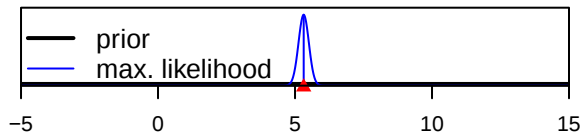
Size_DblN_ascend_se_I7_ESP_Q2(28)



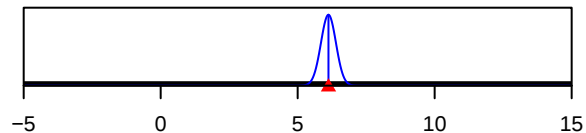
Size_DblN_peak_I8_ESP_Q3(29)



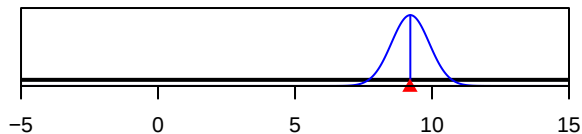
Size_DbIN_ascend_se_I8_ESP_Q3(29)



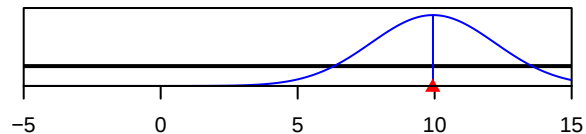
Size_DbIN_ascend_se_I9_ESP_Q4(30)



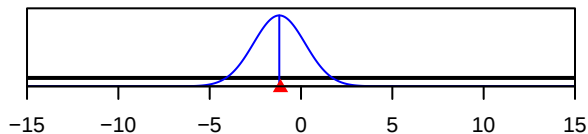
Size_DbIN_descend_se_I8_ESP_Q3(29)



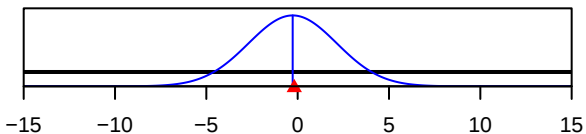
Size_DbIN_descend_se_I9_ESP_Q4(30)



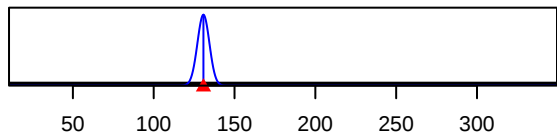
Size_DbIN_end_logit_I8_ESP_Q3(29)



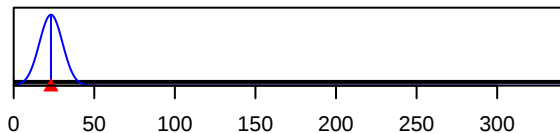
Size_DbIN_end_logit_I9_ESP_Q4(30)



Size_DbIN_peak_I9_ESP_Q4(30)

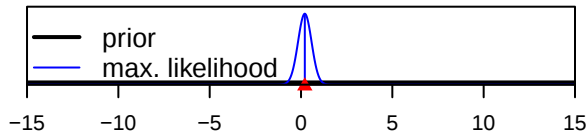


Size_DbIN_peak_F8_ESP_A4(8)_BLK1add_1945

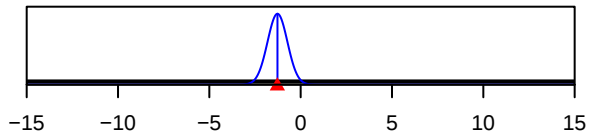


Parameter value

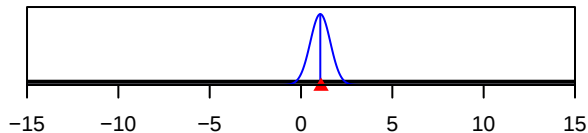
Size_DbIN_ascend_se_F8_ESP_A4(8)_BLK1add_1945



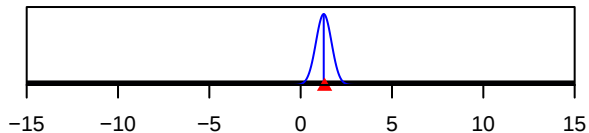
Size_DbIN_ascend_se_F9_ESP_A5(9)_BLK1add_1945



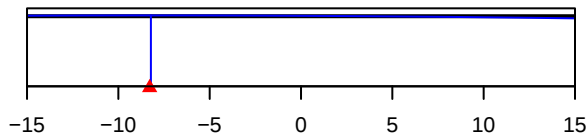
Size_DbIN_descend_se_F8_ESP_A4(8)_BLK1add_1945



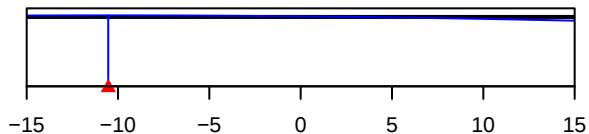
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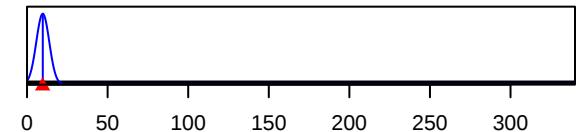
Size_DbIN_end_logit_F8_ESP_A4(8)_BLK1add_1945



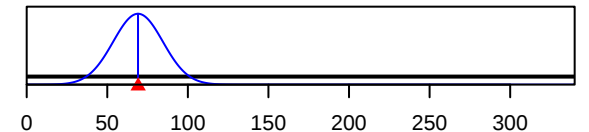
Size_DbIN_end_logit_F9_ESP_A5(9)_BLK1add_1945



Size_DbIN_peak_F9_ESP_A5(9)_BLK1add_1945

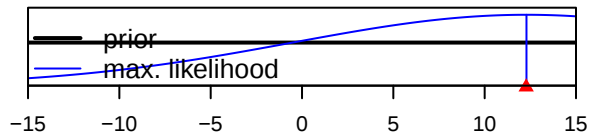


Size_DbIN_peak_F12_LL_DW_A4(12)_BLK1delta_1945

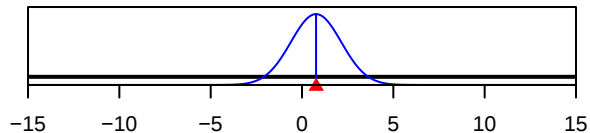


Parameter value

Size_DblN_ascend_se_F12_LL_DW_A4(12)_BLK1delta_194



ize_DblN_descend_se_F12_LL_DW_A4(12)_BLK1delta_194



Density

Parameter value